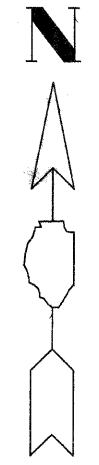
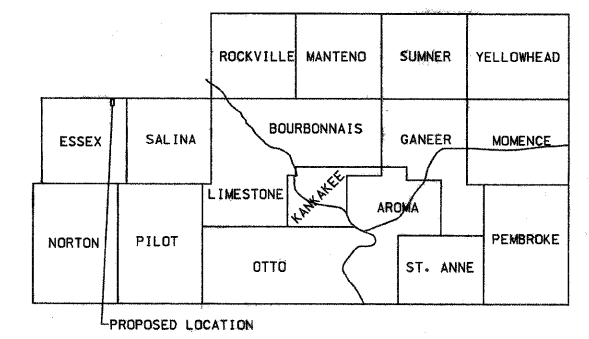


ROUTE NO.	SECTION	COUNTY	NO. SHEETS	SHEET NO.
C.H. 48	*	Kankakee	56	1
PROJECT NO. BROS-0091		CONTRACT NO. 87374		
* 85-00221-00-BR				

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, PAVEMENT DESIGN & LEGEND
3	CENTERLINE TIES
4	TEMPORARY CONSTRUCTION EASEMENTS
5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8	INTERSECTION AND ENTRANCE DETAILS
9-13	SCHEDULE OF QUANTITIES
14-22	PLAN/PROFILE SHEETS
23-27	TRAFFIC CONTROL PLAN
24-28	EROSION CONTROL PLAN
29-36	BRIDGE PLANS
37-56	CROSS SECTIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
COUNTY OF KANKAKEE  
DEPARTMENT OF HIGHWAYS  
PLANS FOR PROPOSED  
BRIDGE REPLACEMENT AND  
REHABILITATION PROGRAM  
COUNTY HIGHWAY 48  
SECTION 85-00221-00-BR  
PROJECT NO. BROS-0091(126)  
JOB NO. C-93-008-09



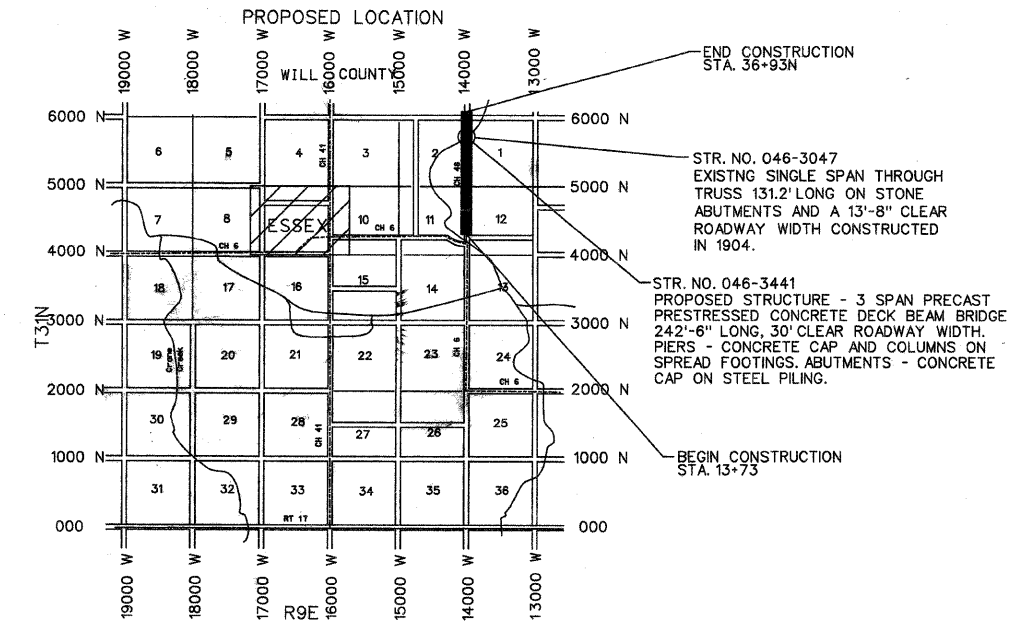
CLASS III ROAD  
CURRENT A.D.T. = 600  
DESIGN A.D.T. = 732  
DESIGN SPEED = 50 M.P.H.

THE ACCEPTANCE OF THIS PROJECT IS  
BASED ON THE MINIMUM DESIGN CRITERIA  
FOR A B.R.R.P. TYPE INVOLVEMENT.

STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
630001-08	STEEL PLATE BEAM GUARDRAIL
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
BLR 21-8	TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES
BLR 23-3	TRAFFIC BARRIER TERMINAL, TYPE 1
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

SCALES:  
PLAN 1" = 40'  
PROFILE 1" = 40'  
HORIZONTAL 1" = 40'  
VERTICAL 1" = 5'  
CROSS SECTIONS 1" = 5'



LOCATION MAP

LENGTH OF PROPOSED IMPROVEMENT 9,366.08 FOOT  
1.774 MILES

CONTRACT NO. 87374

PRIOR TO EXCAVATION, CALL JOINT UTILITIES LOCATION  
INFORMATION FOR EXCAVATORS (J.U.L.I.E.) AT 1-800-892-0123

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Submitted 2-5 2009

*James W. Piekarczyk*  
James W. Piekarczyk, P.E.  
County Engineer

Approved 02-10 2009

*Kenneth R. Lang*  
Kenneth R. Lang, P.E.  
Bureau Chief, Local Roads & Streets

Approved 02-10 2009

*George F. Ryan*  
George F. Ryan, P.E.  
Deputy Director of Highways/Region Two Engineer

# GENERAL NOTES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	*	KANKAKEE	56	2
CONTRACT NO. 87374			*85-00221-00-BR	

THE WORK UNDER THIS CONTRACT CONSISTS OF THE FOLLOWING:

1. CONSTRUCTION OF A TWO-LANE FACILITY.
2. CONSTRUCTION OF ROAD APPROACHES, INTERSECTIONS AND ENTRANCES.
3. SEEDING AND OTHER WORK NECESSARY TO COMPLETE THE PROJECT.
4. DATUM USED FOR SURVEY IS U.S.G.S.
5. ALL STATIONING IS ALONG PROPOSED CENTERLINE OF ROADWAY.
6. ACCESS TO ENTRANCES - ACCESS TO ENTRANCES SHALL BE MAINTAINED BY THE USE OF TEMPORARY BASE AGGREGATE IN ACCORDANCE WITH ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. HOWEVER THE COST OF FURNISHING, PLACING AND REMOVING THE TEMPORARY BASE AGGREGATE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR AGGREGATE BASE COURSE, TYPE A AND NO OTHER COMPENSATION WILL BE ALLOWED, AN ESTIMATED QUANTITY OF 200 TONS OF AGGREGATE BASE COURSE, TYPE A HAS BEEN INCLUDED IN THE PLANS FOR ACCESS PURPOSES.
7. THE THICKNESS OF HOT-MIX MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATION FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE BASE COURSE ON WHICH THE HOT-MIX MIXTURE IS PLACED.  
  
THE FOLLOWING APPLICATION RATES HAVE BEEN USED TO DETERMINE PLAN QUANTITIES:  
  

PRIME COAT (ON AGGREGATE BASE)	0.40 GAL. PER SQ. YD.
BIT MATL (COVER & SEAL CT)	0.35 GAL. PER SQ. YD.
COVER & SEAL CT AGG	25 LBS. PER SQ. YD.
HMA BINDER COURSE	115 LBS. PER SQ. YD.***
HMA SURFACE COURSE	115 LBS. PER SQ. YD.***

\*\*\* INCH OF THICKNESS
8. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.
9. TEMPORARY MARKING TAPE SHALL BE USED FOR ALL FINAL HOT-MIX ASPHALT SURFACES.
10. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
11. ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE MINIMUM SAWCUT DEPTH IN THE PAVEMENT SHALL BE 2 INCHES, UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS.

## UTILITIES

COMMONWEALTH EDISON  
25000 S. GOVERNORS HIGHWAY  
UNIVERSITY PARK, IL 60466  
ENGINEER: MR. GARY ZACK  
708-235-2694

AT&T  
65 W. WEBSTER, FLOOR 2  
JOLIET, IL 60432  
ENGINEER: MR. CLIFF MOORE  
815-722-4389

VERIZON  
120 N. STERLING STREET  
STREATOR, IL 61364  
ENGINEER: MS. SUE ERSCHEN  
815-672-8298

12. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE.
13. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETE, ALL ROAD SIGNS WILL BE INSTALLED BY OTHERS. REMOVAL OF THESE SIGNS SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
14. ABANDONED UNDERGROUND UTILITY ITEMS WHICH CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE 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 CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
15. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
18. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
19. CONTINGENCY ITEM OF 200 TONS OF AGGREGATE BASE COURSE, TYPE B, IS INCLUDED FOR AREAS WHERE THE SUB-GRADE IS CONSIDERED UNSUITABLE BY THE ENGINEER.
20. UNLESS OTHERWISE INDICATED IN THE PLANS OR SPECIAL PROVISIONS FOR ALL EXISTING PIPE CULVERTS SPECIFIED TO BE REMOVED ON THE PLANS, THE COST OF REMOVAL SHALL BE INCIDENTAL TO THE INSTALLATION OF NEW CULVERTS AT OR NEAR THESE LOCATIONS.
21. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF FENCES WITHIN THE RIGHT-OF-WAY UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE COST FOR THIS WILL BE INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
22. ANY FIELD TILES ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE PLANS, SHALL BE ADDED TO THE PROPOSED PAY ITEMS OF THAT PARTICULAR SIZE OR WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

## PAVEMENT DESIGN

14000W (C.H. 48)  
STA. 2+25N TO STA. 36+93N

CLASS III, 2-LANE PAVEMENT  
D.P. - 20 YEARS  
DESIGN TRAFFIC:

EXISTING ADT: 600  
PROPOSED ADT: 732  
PV(88%) 644 SU(7%) 51 MU(5%) 37  
80,000 POUND LOAD LIMIT  
CRITICAL SUBGRADE Eri: 5.6 ksi  
T.F. = D.P.  $(0.073PV + 54.570SU + 192.175MU)$   
1,000,000

T.F. = 0.20  
SUBGRADE SUPPORT RATING: FAIR  
USE AC-20 BECAUSE OF STOPPING AND STARTING  
MIXTURE TEMPERATURE: 78.5  
Eac: 500  
DESIGN STRAIN: 240  
PAVEMENT THICKNESS REQUIRED: 6"

USE: 6"

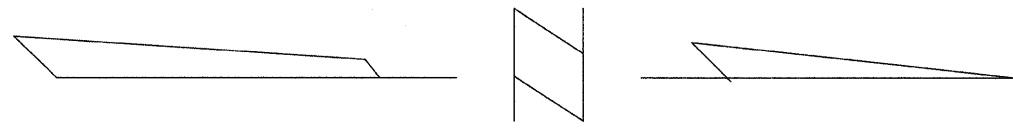
## LEGEND

- EXISTING R.O.W. MARKER
- EXISTING POWER POLE
- EXISTING TELEPHONE POLE
- EXISTING PHONE PEDESTAL
- EXISTING UNDERGROUND TELEPHONE
- EXISTING TREE
- EXISTING CULVERT
- EXISTING OCCUPATION LINE
- EXISTING FENCE LINE
- EXISTING FENCE POST
- PROPOSED R.O.W. MARKER
- TREE TO BE REMOVED
- PROPOSED CULVERT
- PROPOSED R.O.W.
- PROPOSED DITCH FLOW
- CONSTRUCTION LIMITS

	HMA BINDER	HMA SURFACE	HMA SHLDS
PG GRADE	PG64-22	PG64-22	PG58-22
MAX % RAP ALLOWABLE **	25%	15%	50%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	2.0% @ N30
MIXTURE COMPOSITION	IL-19.0	IL-12.5	IL-19.0
FRICTION AGGREGATE		MIXTURE C	
DENSITY TEST METHOD	CORES	CORES	*

\* MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

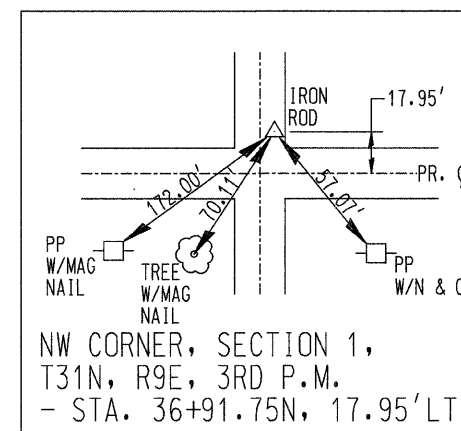
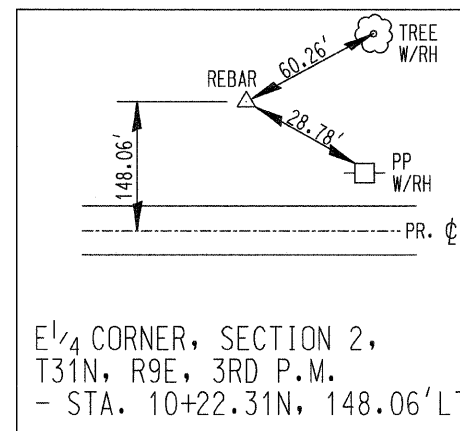
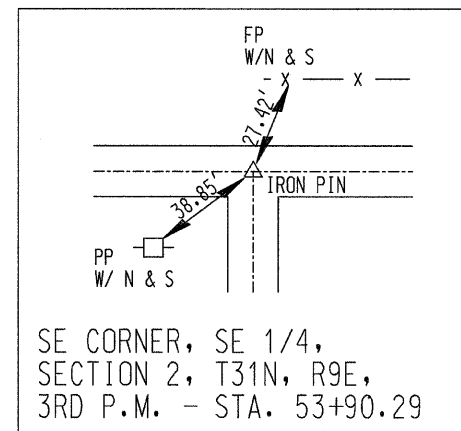
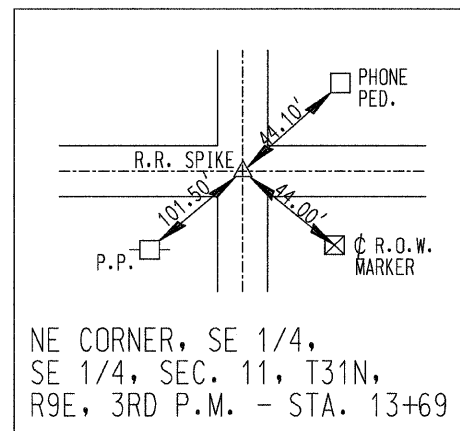
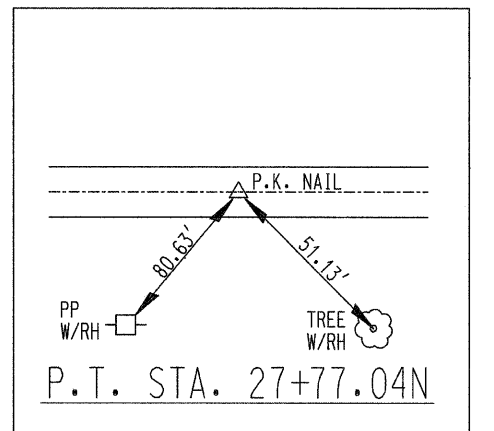
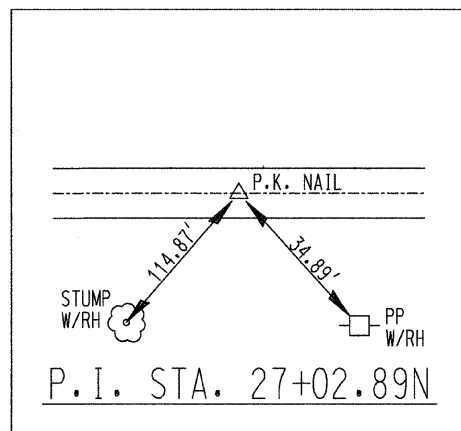
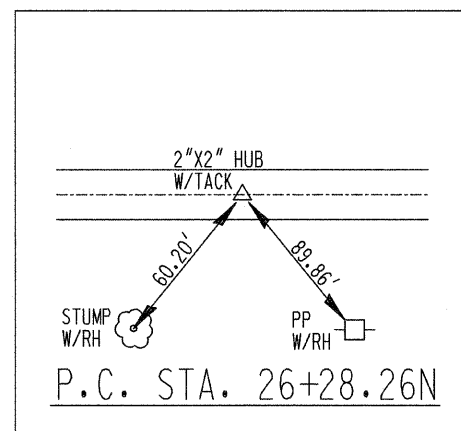
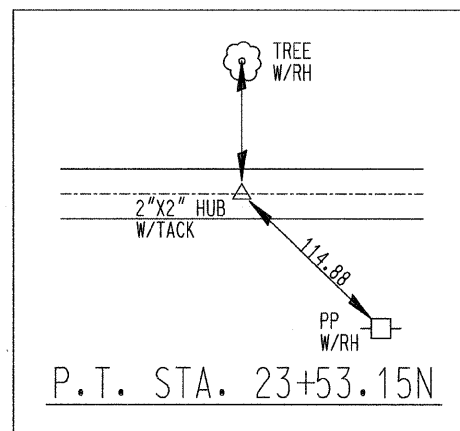
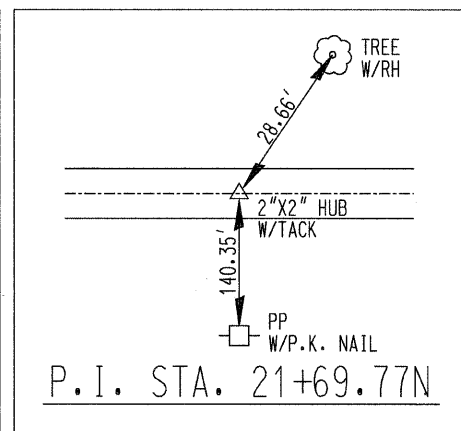
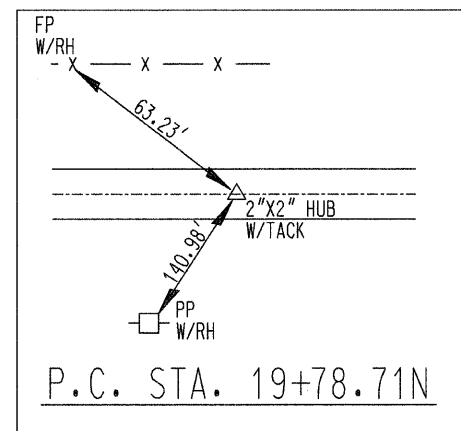
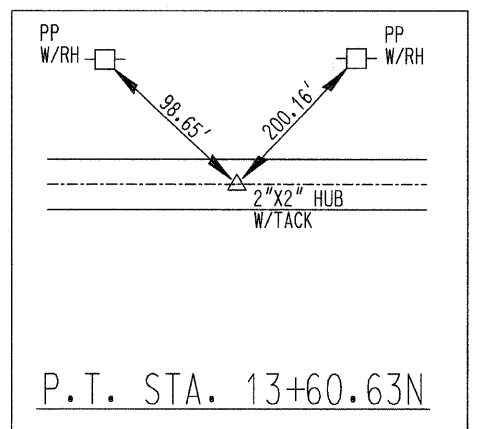
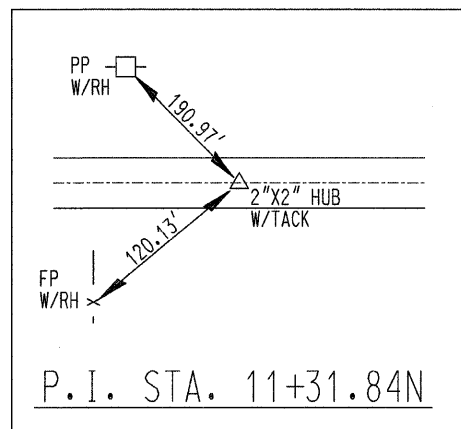
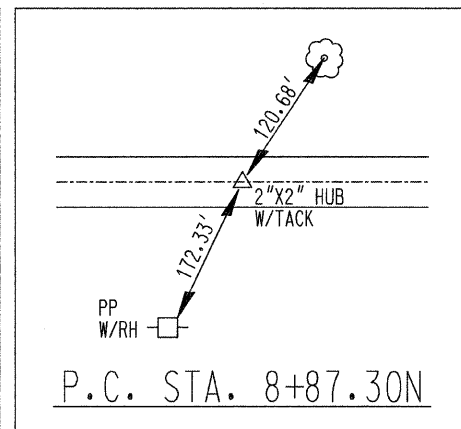
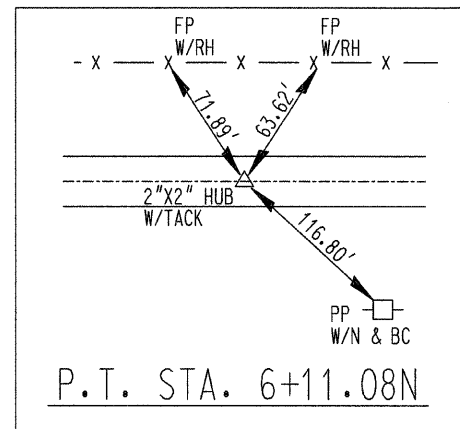
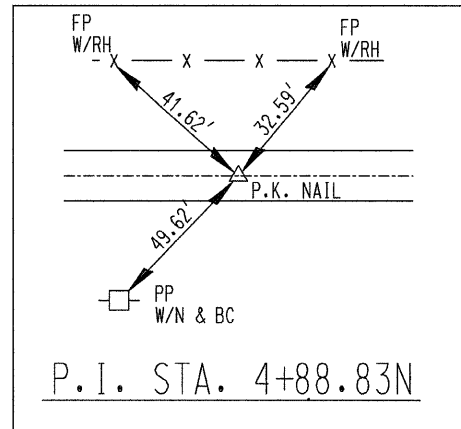
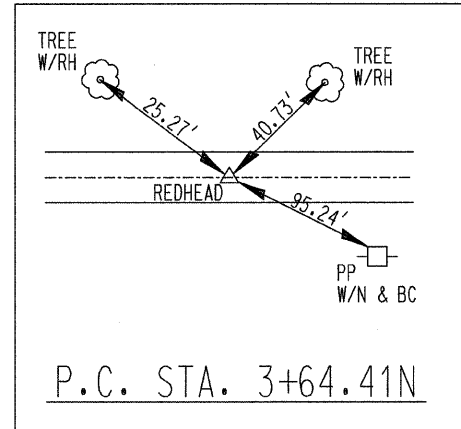
\*\* WHEN MORE THAN 20% RAP IS USED, A SOFTER ASPHALT BINDER (PG58-22) MAY BE REQUIRED AS DETERMINED BY THE ENGINEER..



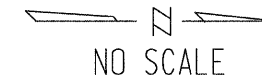
# ALL TIE POINTS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	3

CONTRACT NO. 87374  
\* 85-00221-00-BR



# TEMPORARY CONSTRUCTION EASEMENTS



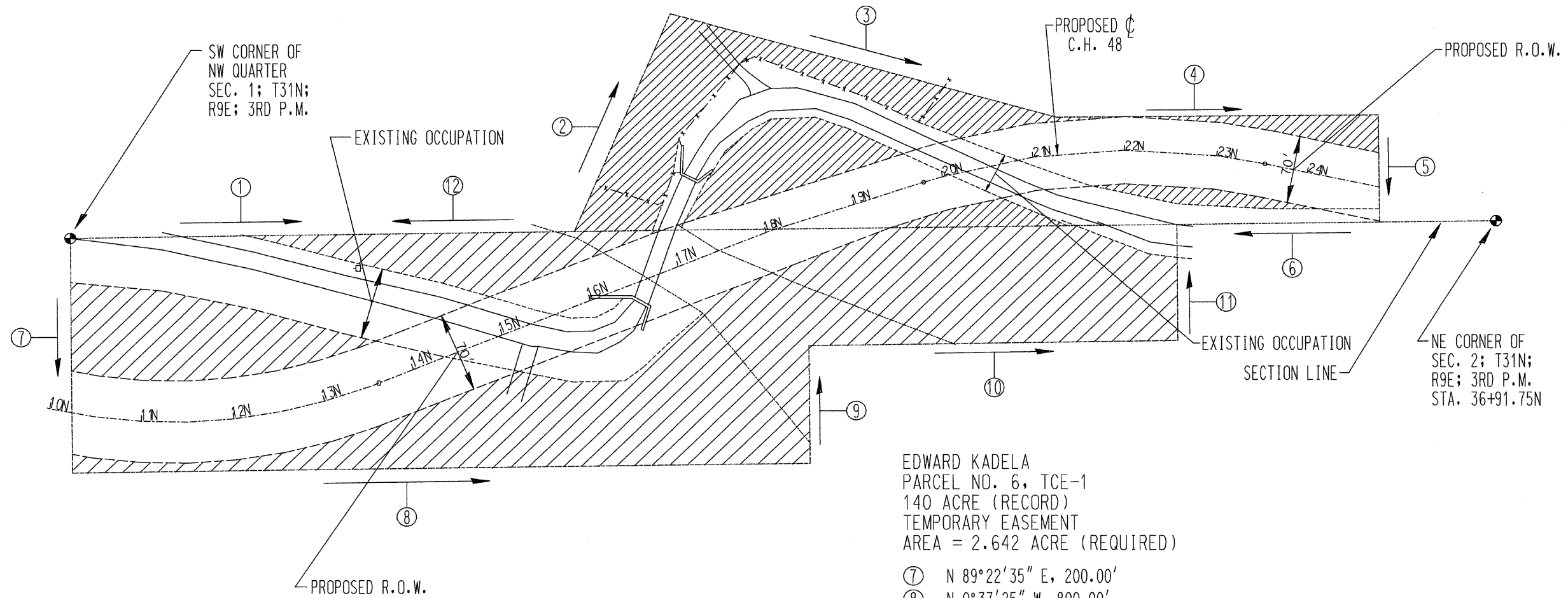
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	4

CONTRACT NO. 87374

\* 85-00221-00-BR

DENNIS SWIECH  
 PARCEL NO. 7, TCE-1  
 25.00 ACRE (RECORD)  
 TEMPORARY EASEMENT  
 AREA = 1.165 ACRE (REQUIRED)

- ① N 0°37'25" W, 550.00'
- ② N 65°37'25" W, 250.00'
- ③ N 14°26'11" E, 424.96'
- ④ N 0°37'25" W, 350.00' ±
- ⑤ N 89°22'35" E, 115.00'
- ⑥ S 0°37'25" E, 1420.00' ±



EDWARD KADELA  
 PARCEL NO. 6, TCE-1  
 140 ACRE (RECORD)  
 TEMPORARY EASEMENT  
 AREA = 2.642 ACRE (REQUIRED)

- ⑦ N 89°22'35" E, 200.00'
- ⑧ N 0°37'25" W, 800.00'
- ⑨ S 90°37'25" W, 100.00'
- ⑩ N 0°37'25" W, 400.00'
- ⑪ S 90°37'25" W, 100.00'
- ⑫ S 0° 37'25" E, 1200.00'

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	ITEM	UNIT	FUND CODE	FUND CODE	NON-PARTICIPATING	TOTAL QUANTITY
			1000	X081-2A		
			ROADWAY QUANTITY	BRIDGE QUANTITY		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT			346	346
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT			476	476
20100500	TREE REMOVAL, ACRES	ACRES	1.16			1.16
* 20200100	EARTH EXCAVATION	CU YD	7.011		14,040	21,051
* 20200910	GRADING & SHAPING ROADWAY	STATIONS	5.58			5.58
* 20700220	POROUS GRANULAR EMBANKMENT	CU YD	25.20		41.84	67.04
△* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRES	4.90		7.68	12.58
△ 25100125	MULCH, METHOD 3	ACRES	4.90		7.68	12.58
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	490		768	1,258
28000300	TEMPORARY DITCH CHECKS	EACH	53		47	100
28000400	PERIMETER EROSION BARRIER	FOOT	5,559		13,259	18,818
28000500	INLET & PIPE PROTECTION	EACH	6		18	24
* 28100707	STONE DUMPED RIP RAP, CLASS A4	SQ YD	20	714	591	1,325
35100100	AGGREGATE BASE COURSE, TYPE A	TON	4,018		13,497	17,515
* 35101400	AGGREGATE BASE COURSE, TYPE B	TON			200	200
* 40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2,350		7,754	10,104
* 40300300	BITUMINOUS MATERIALS (COVER & SEAL COATS)	GALLON			15,640	15,640
* 40300500	COVER COAT AGGREGATE	TON			375	375
* 40300600	SEAL COAT AGGREGATE	TON			188	188
* 40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,369		760	2,129
* 40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50	TON	585		260	845
* 44000100	PAVEMENT REMOVAL	SQ YD			99	99
* 48101500	AGGREGATE SHOULDERS, TYPE B, 6"	SQ YD			710	710
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	1,937		233	2,170
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH		1		1
50200100	STRUCTURE EXCAVATION	CU YD		52		52
50300225	CONCRETE STRUCTURES	CU YD		119.5		119.5
* 50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DP)	SQ FT		7,200		7,200
50800105	REINFORCEMENT BARS	POUND		8,530		8,530
△* 50900205	STEEL RAILING, TYPE S1	FOOT		481		481

SUMMARY OF QUANTITIES

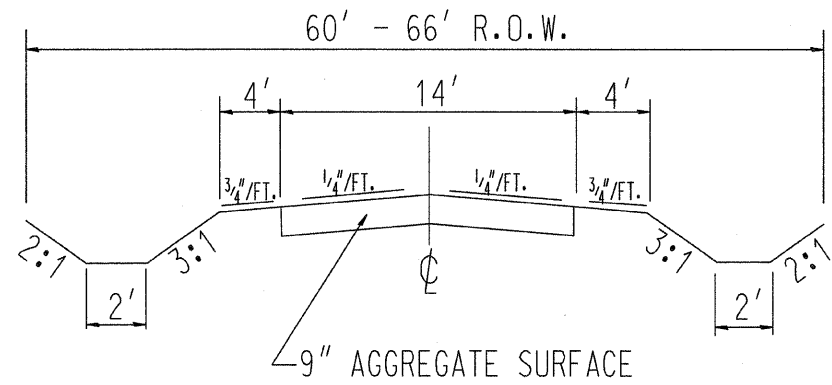
PAY ITEM NUMBER	ITEM	UNIT	FUND CODE	FUND CODE	NON-PARTICIPATING	TOTAL QUANTITY
			1000	X081-2A		
			ROADWAY QUANTITY	BRIDGE QUANTITY		
51201400	FURNISHING STEEL PILES HP10X42	FOOT		720		720
51202305	DRIVING PILES	FOOT		720		720
51203400	TEST PILE STEEL HP10X42	EACH		4		4
51204650	PILE SHOES	EACH		42		42
51500100	NAME PLATES	EACH		1		1
* 542C0223	PIPE CULVERTS, CLASS C, TYPE 1, 18"	FOOT			90	90
* 542C0229	PIPE CULVERTS, CLASS C, TYPE 1, 24"	FOOT	62		122	184
* 542C5497	PIPE CULVERTS, CLASS C, TYPE 1, EQUIVALENT ROUND SIZE 42"	FOOT	52			52
* 542C5521	PIPE CULVERTS, CLASS C, TYPE 1, EQUIVALENT ROUND SIZE 66"	FOOT	60			60
* 542D0223	PIPE CULVERTS, CLASS D, TYPE 1, 18"	FOOT	60		512	572
* 542D0229	PIPE CULVERTS, CLASS D, TYPE 1, 24"	FOOT	175			175
* 58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD		800		800
* 60100905	PIPE DRAINS, 4"	FOOT			12	12
60100925	PIPE DRAINS, 8"	FOOT			18	18
* △ 63000003	STEEL PLATE BEAM GUARD RAIL, TYPE A, 9 FOOT POSTS	FOOT		162.5	100	262.5
△ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH		4		4
66600105	FURNISH & ERECT R.O.W. MARKERS	EACH	26		7	33
* 67100100	MOBILIZATION	L SUM	0.5		0.5	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	347			347
△* 78201000	TERMINAL MARKERS - DIRECT APPLIED	EACH		4		4
△* A2001016	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	12			12
△* LR634020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH		4		4
* XX004566	CONCRETE CUT-OFF WALL	CU YD		8.5		8.5

\* SEE SPECIAL PROVISIONS  
 △ SPECIALTY ITEMS

ROUTE NO CH 48	SECTION *	COUNTY KANKAKEE	TOTAL SHEETS 56	SHEET NO 6
CONTRACT NO. 87374				

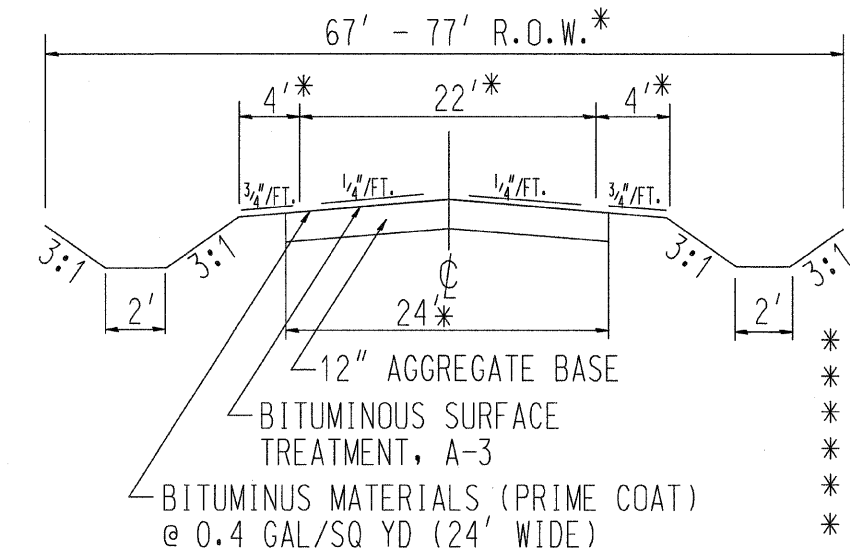
\* 85-00221-00-BR

### EXISTING CROSS SECTION



### PROPOSED TYPICAL CROSS SECTION

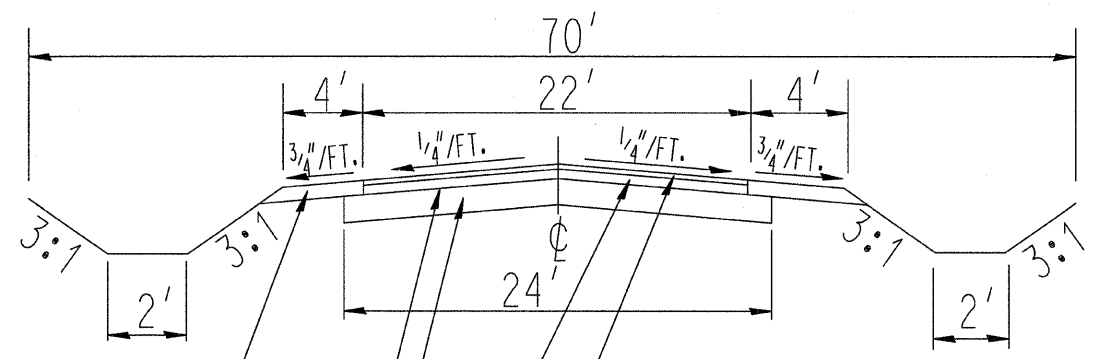
STA. 13+73 TO STA. 72+71.08  
\* 5000N ROAD



- \* 5000N ROAD
- \* 45' - 50' R.O.W
- \* 18' AGGREGATE BASE
- \* 16' SURFACE
- \* 2' SHOULERS
- \* 18' WIDE PRIME

### PROPOSED TYPICAL CROSS SECTION

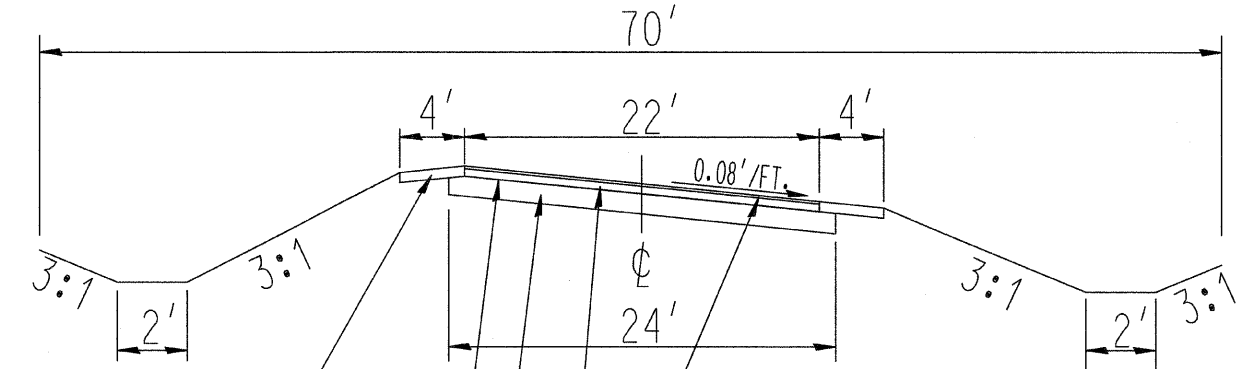
STA. 2+25.00N TO STA. 2+35.80N  
STA. 7+39.75N TO STA. 7+58.66N  
STA. 14+89.27N TO STA. 15+85.00N  
STA. 18+27.00N TO STA. 18+50.07N  
STA. 24+81.79N TO STA. 24+99.62N



- HMA BIT SHLD, 6"
- BITUMINUS MATERIALS (PRIME COAT) @ 0.4 GAL/SQ YD (24' WIDE)
- HMA SURF CSE, MIX C, N50, 1 1/2"
- HMA BIND CSE, IL-19.0, N50, 4 1/2" (TO BE CONSTRUCTED IN TWO LIFTS)
- AGG BASE CSE, TY A, 12"

### PROPOSED TYPICAL SUPERELEVATED SECTION

STA. 2+35.80N TO STA. 7+39.75N  
STA. 7+58.66N TO STA. 14+89.27N  
STA. 18+50.07N TO STA. 24+81.79N  
STA. 24+99.62N TO STA. 29+05.68N

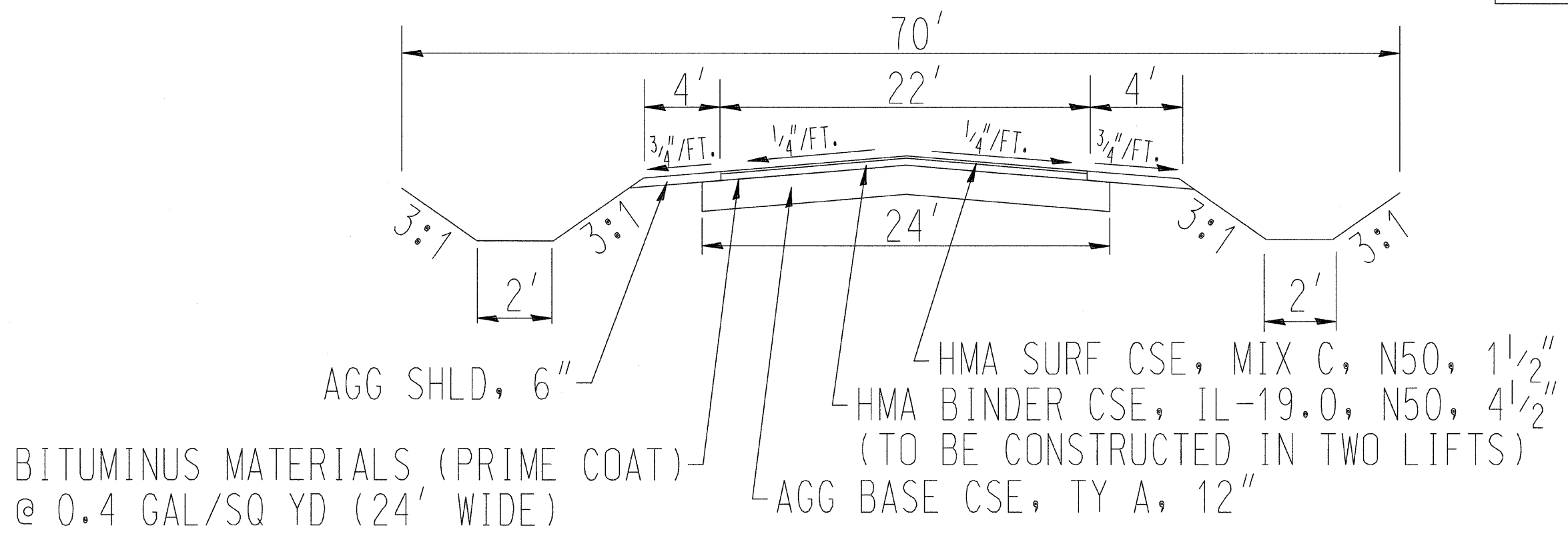


- HMA BIT SHLD, 6"
- BITUMINUS MATERIALS (PRIME COAT) @ 0.4 GAL/SQ YD (24' WIDE)
- HMA SURF CSE, MIX C, N50, 1 1/2"
- HMA BIND CSE, IL-19.0, N50, 4 1/2" (TO BE CONSTRUCTED IN TWO LIFTS)
- AGG BASE CSE, TY A, 12"

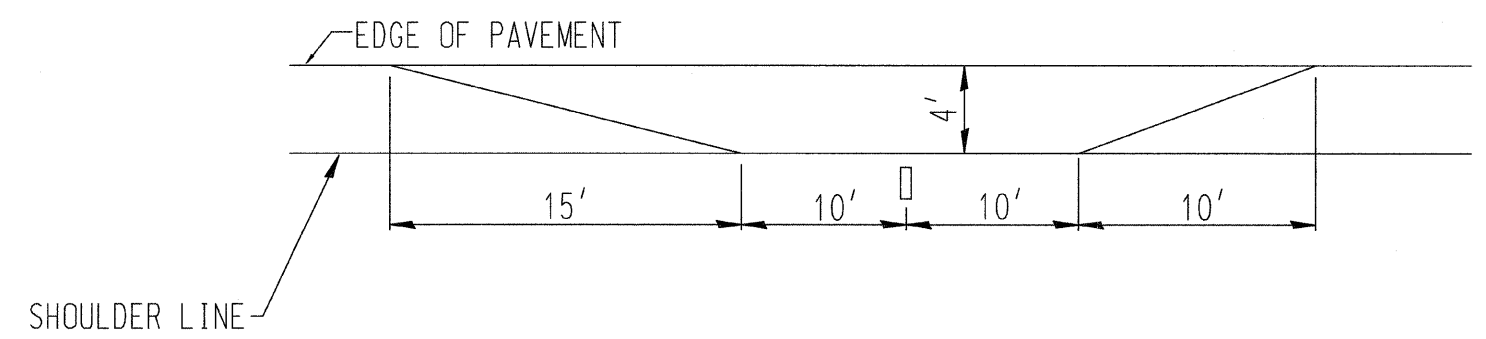
# PROPOSED TYPICAL CROSS SECTION STA. 29+05.68N TO STA. 36+93N

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
48	*	KANKAKEE	56	7
CONTRACT NO.		87374		

\* 85-00221-00-BR



## TYPICAL MAILBOX TURNOUT DETAIL



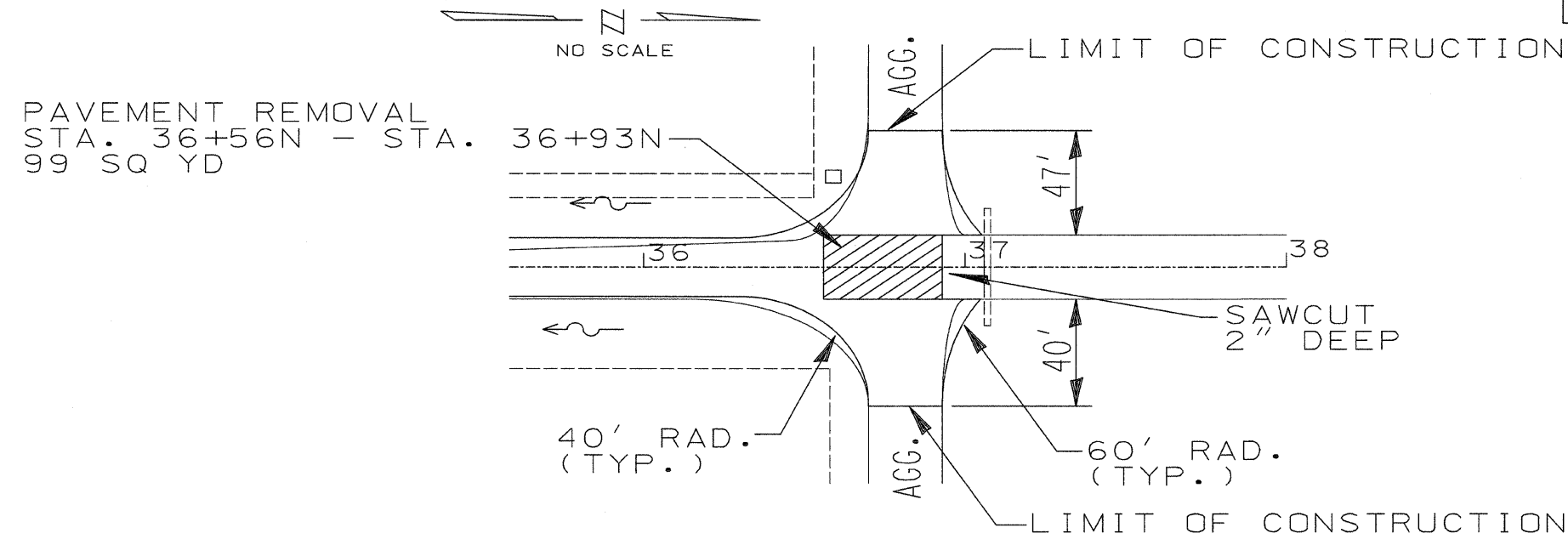
EXISTING MAILBOXES WITHIN THE PROJECT LIMITS SHALL BE RELOCATED PER THE ABOVE DETAIL. THE FACE OF THE BOX TO BE 36" BEHIND THE ADJACENT EDGE OF PAVEMENT. THE BOTTOM OF THE BOX TO BE 42" ABOVE THE EDGE OF SHOULDER. (COST TO BE INCLUDED IN THE EARTH EXCAVATION PAY ITEM.)

MAILBOX TURNOUT SCHEDULE	
STATION	AGG BASE CSE, TY. A
38+03 RT	4 TON
47+23 RT	4 TON
67+21 LT	4 TON
20+50N LT	4 TON
27+87N RT	4 TON
TOTAL	20 TON

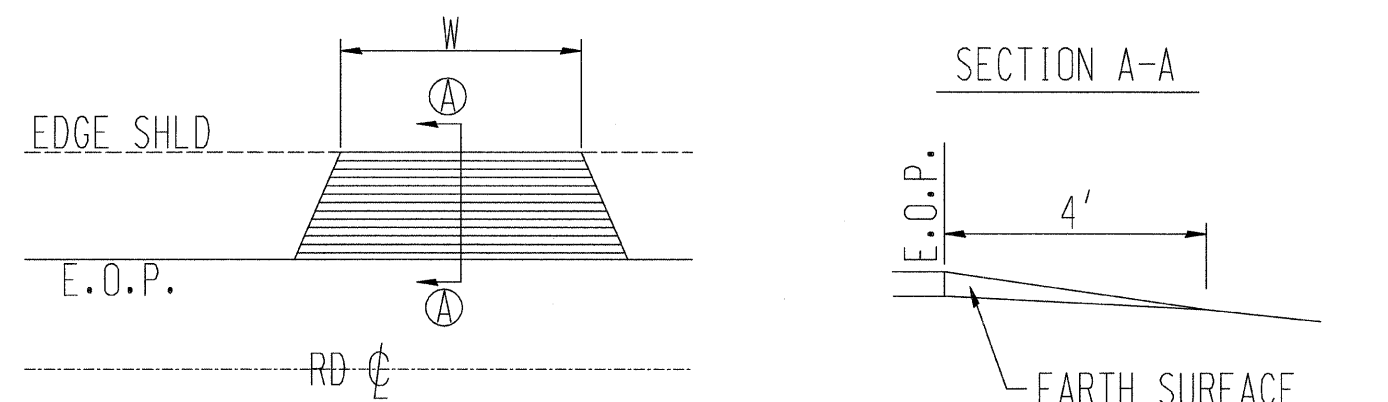
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	8

CONTRACT NO. 87374  
\* 85-00221-00-BR

### INTERSECTION DETAIL

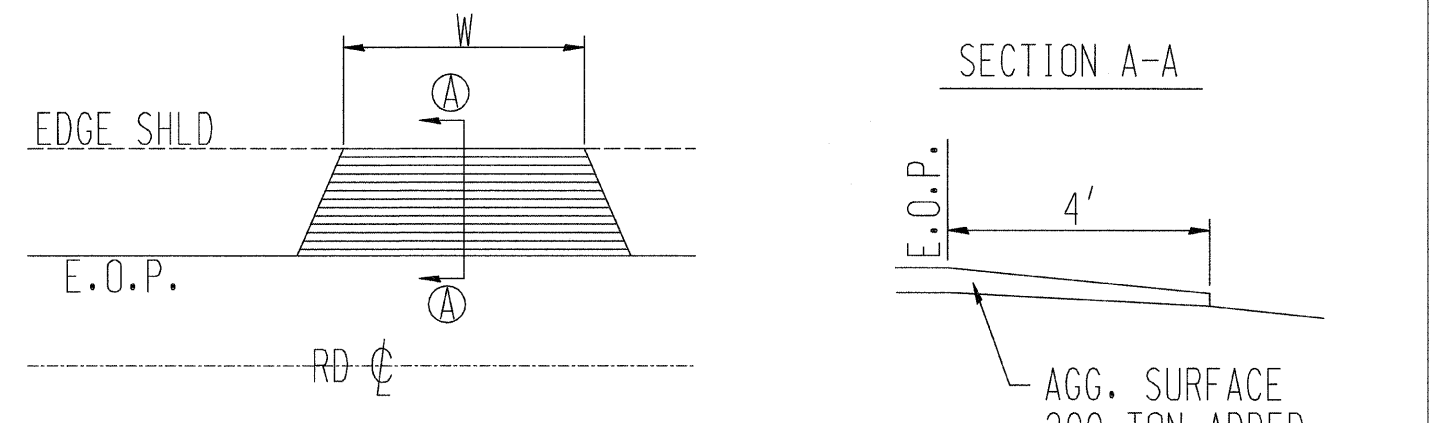


### FIELD ENTRANCE DETAIL



W: WIDTH OF APPROACH PADS IS ESTIMATED AT 20' PER ENTRANCE. THE ACTUAL CONSTRUCTED WIDTH MAY VARY AS DIRECTED BY THE ENGINEER TO FIT THE PROPOSED AND EXISTING ENTRANCES.

### PRIVATE ENTRANCE DETAIL



W: WIDTH OF APPROACH PADS IS ESTIMATED AT 20' PER ENTRANCE. THE ACTUAL CONSTRUCTED WIDTH MAY VARY AS DIRECTED BY THE ENGINEER TO FIT THE PROPOSED AND EXISTING ENTRANCES. SEE SHEETS 52 & 54 OF PLANS FOR BIT DRIVE DETAILS.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	9
CONTRACT NO. 87374				

TREE REMOVAL			
STATION	6-15 UNITS DIA.	OVER 15 UNITS DIA.	ACRES
14+73, 30' LT		31	
14+99, 30' LT	10	16	
14+99, 30' LT	10	18	
14+99, 30' LT	15		
15+16, 32' LT	10		
15+36, 33' LT	14		
15+55, 27' LT		18	
15+74, 27' LT	8		
15+94, 33' LT		19	
16+12, 32' LT	8		
16+12, 32' LT	10		
16+49, 33' LT		38	
16+71, 29' LT	7		
16+71, 29' LT	8		
16+71, 29' LT	8		
17+06, 34' LT	9		
17+06, 34' LT	10		
17+06, 34' LT	13		
17+64, 32' LT		21	
17+96, 32' LT	13	17	
17+96, 32' LT		19	
27+18, 34' LT	6		
27+18, 34' LT	7		
27+18, 34' LT	9		
27+18, 35' LT	7		
27+18, 35' LT	8		
27+18, 35' LT	10		
35+15, 20' LT		24	
40+30, 11' LT		29	
47+04, 8' LT		30	
48+52, 12' LT		30	
49+37, 10' LT		48	
56+82, 16' LT	8		
56+82, 16' LT	10		
67+97, 28' LT	10		
69+13, 33' LT		24	

TREE REMOVAL			
STATION	6-15 UNITS DIA.	OVER 15 UNITS DIA.	ACRES
69+53, 26' LT	10		
69+53, 26' LT	12		
69+64, 25' LT	10	20	
69+81, 24' LT	12		
69+92, 23' LT	12		
69+97, 23' LT	10	24	
71+41, 24' LT	10		
71+50, 21' LT	15		
71+72, 21' LT	15		
71+88, 24' LT	6		
71+88, 24' LT	6		
72+00, 24' LT		24	
72+28, 23' LT		24	
17+47N - 20+26N			0.44
20+53N - 25+00N			0.72
TOTALS	346	474	1.16

EARTHWORK SUMMARY			
STA. - STA.	EARTH EXCAVATION CU. YD.	EMBANKMENT-CU. YD. (INCLUDES 30% SHRINKAGE)	BALANCE - CU. YD. WASTE (+) OR SHORTAGE (-)
13+73 - 25+00	1427	1018	409
25+00 - 37+00	3271	637	2634
37+00 - 49+00	2209	726	1483
49+00 - 61+00	1182	3444	-2262
61+00 - 72+71.08	3074	370	2704
2+25N - 14+00N	5430	2593	2837
14+00N - 15+85N	212	2842	-2630
18+27N - 26+00N	774	8542	-7768
26+00N - 36+93N	3403	404	2999
5000N ROAD	69	90	-21
TOTALS	21,051	20,666	385

\* ALL WASTE SHALL BE REMOVED FROM THE JOBSITE AT NO ADDITIONAL COMPENSATION TO THE CONTRACTOR.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	10
CONTRACT NO.			87374	

EROSION CONTROL SCHEDULE							
LOCATION	SEEDING ACRE	MULCH ACRE	TEMP. SEEDING POUND	PER. EROSION BARRIER - FOOT	INLET & PIPE PROTECT. - EACH	TEMP. DITCH CHECK - EACH	RIP RAP, CL A-4 SQ. YD.
STA. 13+73LT - STA. 72+71.08LT	3.37	3.37	337	5898			
STA. 13+73RT - STA. 53+67RT	2.76	2.76	276	3994			
STA. 13+87LT					1		
STA. 14+51LT					1		
STA. 16+00RT						1	
STA. 18+00LT						1	
STA. 20+00RT						1	
STA. 21+00LT						1	
STA. 24+00LT						1	
STA. 24+00RT						1	
STA. 27+00LT						1	
STA. 27+39LT					1		
STA. 27+42RT					1		
STA. 28+00RT						1	
STA. 29+00LT						1	
STA. 29+00RT						1	
STA. 30+00LT						1	
STA. 31+00RT						1	
STA. 34+50LT						1	
STA. 32+00RT						1	
STA. 33+00LT						1	
STA. 33+00RT						1	
STA. 34+00LT						1	
STA. 35+25LT							47
STA. 35+25RT							61
STA. 35+76RT					1		
STA. 36+00RT						1	
STA. 37+61RT					1		
STA. 38+00LT						1	
STA. 38+00RT						1	
STA. 40+00LT						1	

EROSION CONTROL SCHEDULE							
LOCATION	SEEDING ACRE	MULCH ACRE	TEMP. SEEDING POUND	PER. EROSION BARRIER - FOOT	INLET & PIPE PROTECT. - EACH	TEMP. DITCH CHECK - EACH	RIP RAP, CL A-4 SQ. YD.
STA. 40+00RT						1	
STA. 42+00LT						1	
STA. 42+00RT						1	
STA. 43+00LT						1	
STA. 44+00RT						1	
STA. 46+13LT					1		
STA. 46+74LT					1		
STA. 48+00RT						1	
STA. 48+05LT					1		
STA. 49+00LT						1	
STA. 52+00LT						1	
STA. 52+00RT						1	
STA. 52+55LT							46
STA. 52+55RT							107
STA. 54+46LT					1		
STA. 54+20RT					1		
STA. 54+15RT - STA. 72+71.08RT	1.16	1.16	116	1856			
STA. 55+00LT						1	
STA. 55+00RT						1	
STA. 55+50RT					1		
STA. 60+00LT						1	
STA. 61+00RT						1	
STA. 62+00RT						1	
STA. 63+60RT					1		
STA. 64+50RT						1	
STA. 66+42LT					1		
STA. 67+20LT					1		
STA. 69+00LT						1	
STA. 69+00RT						1	
STA. 70+45LT					1		
STA. 72+10RT					1		
STA. 2+25N LT - STA. 15+85N LT	0.66	0.66	66	1304			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	11
CONTRACT NO. 87374				

EROSION CONTROL SCHEDULE

LOCATION	SEEDING ACRE	MULCH ACRE	TEMP. SEEDING POUND	PER. EROSION BARRIER - FOOT	INLET & PIPE PROTECT. - EACH	TEMP. DITCH CHECK - EACH	RIP RAP, CL A-4 SQ. YD.
STA. 2+25N RT - STA. 15+85N RT	0.67	0.67	67	1371			
STA. 2+25N LT						1	
STA. 2+25N RT						1	
STA. 4+00N RT						1	
STA. 4+50N LT						1	
STA. 5+00N RT						1	
STA. 5+00N LT - STA. 14+93N LT	1.09	1.09	109				
STA. 6+00N LT						1	
STA. 6+00N RT						1	
STA. 6+50N LT						1	
STA. 6+50N RT						1	
STA. 7+00N LT						1	
STA. 7+00N RT						1	
STA. 7+50N LT						1	
STA. 7+50N RT						1	
STA. 8+00N LT						1	
STA. 8+00N RT						1	
STA. 8+50N RT						1	
STA. 8+50N LT					1		
STA. 9+00N LT						1	
STA. 9+00N RT						1	
STA. 9+50N LT						1	
STA. 9+50N RT						1	
STA. 10+00N LT						1	
STA. 10+00N RT						1	
STA. 10+50N RT						1	
STA. 10+75N LT					1		
STA. 11+00N LT						1	
STA. 11+00N RT						1	
STA. 11+50N LT						1	
STA. 11+50N RT						1	
STA. 12+00N LT						1	
STA. 12+00N RT						1	
STA. 12+50N LT						1	
STA. 12+50N RT						1	
STA. 13+00N LT						1	

EROSION CONTROL SCHEDULE

LOCATION	SEEDING ACRE	MULCH ACRE	TEMP. SEEDING POUND	PER. EROSION BARRIER - FOOT	INLET & PIPE PROTECT. - EACH	TEMP. DITCH CHECK - EACH	RIP RAP, CL A-4 SQ. YD.
STA. 13+00N RT						1	
STA. 13+50N LT						1	
STA. 13+50N RT						1	
STA. 14+00N LT						1	
STA. 14+00N RT						1	
STA. 14+50N LT						1	
STA. 14+50N RT						1	
STA. 15+10.55N RT					1		
STA. 15+00N LT						1	
STA. 15+89N - STA. 16+31N							357
STA. 16+94N LT - STA. 36+53N LT	0.90	0.90	90	2075			
STA. 16+94N LT - STA. 20+27N LT	0.22	0.22	22				
STA. 17+85N - STA. 18+27N							357
STA. 18+27N RT - STA. 36+58N RT	0.89	0.89	89	1786			
STA. 19+00N LT						1	
STA. 20+30N LT					1		
STA. 20+36N RT					1		
STA. 20+53N RT - STA. 27+91N RT	0.66	0.66	66				
STA. 21+02N LT							10
STA. 21+02N RT							10
STA. 22+00N LT						1	
STA. 22+00N RT						1	
STA. 23+00N LT						1	
STA. 23+00N RT						1	
STA. 24+00N LT						1	
STA. 24+00N RT						1	
STA. 25+00N LT						1	
STA. 25+00N RT						1	
STA. 25+45N LT						1	
STA. 25+50N RT						1	
STA. 26+00N LT						1	
STA. 26+00N RT						1	
STA. 27+00N LT						1	
STA. 27+00N RT						1	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	12
CONTRACT NO. 87374				

EROSION CONTROL SCHEDULE							
LOCATION	SEEDING ACRE	MULCH ACRE	TEMP. SEEDING POUND	PER. EROSION BARRIER - FOOT	INLET & PIPE PROTECT. - EACH	TEMP. DITCH CHECK - EACH	RIP RAP, CL A-4 SQ. YD.
STA. 27+50N RT						1	
STA. 29+00N RT						1	
STA. 29+50N LT						1	
STA. 30+00N RT						1	
STA. 30+42N LT							71
STA. 30+42N RT							71
STA. 31+00N LT						1	
STA. 31+00N RT						1	
STA. 32+00N LT						1	
STA. 32+00N RT						1	
STA. 33+76N RT					1		
STA. 34+43N LT							87
STA. 34+43N RT							101
5000N ROAD							
STA. 0+33E LT - STA. 3+00E LT	0.11	0.11	11	267			
STA. 0+33E RT - STA. 3+00E RT	0.09	0.09	9	267			
TOTALS	12.58	12.58	1,258	18,818	24	100	1,325

CULVERT SCHEDULE							
LOCATION	PIPE CULVERTS, CLASS D, TYPE 1 FOOT		PIPE CULVERTS, CLASS C, TYPE 1 FOOT				P.G.E. CU YD
	18"	24"	18"	24"	42" E.R.S.	66" E.R.S.	
STA. 13+87			48				3.00
STA. 14+39 LT	30						
STA. 27+51 LT	30						
STA. 27+54 RT	30						
STA. 35+25						60	16.30
STA. 35+62 RT	30						
STA. 37+49 RT	24						
STA. 46+25 LT	30						
STA. 46+88 LT	28						
STA. 48+17 LT	30						
STA. 52+55				60			8.36
STA. 53+90.29 RT				62			10.45
STA. 54+46 LT	30						
STA. 55+60 RT	30						
STA. 63+30 RT	30						
STA. 66+62 LT	40						
STA. 67+35 LT	30						
STA. 70+45 LT	30						
STA. 72+10 RT	30						
STA. 8+50N LT	30						
STA. 10+75N LT	30						
STA. 15+48N RT		75					
STA. 20+00N LT		60					
STA. 20+16N RT		40					
STA. 21+02N				62			25.20
STA. 25+45N LT	30						
STA. 30+42N					52		1.85
STA. 33+88N RT	30						
STA. 34+43N			42				1.88
TOTALS	572	175	90	184	52	60	67.04

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	13
CONTRACT NO.			87374	

FURNISHING & ERECTING R.O.W. MARKERS		
STATION	DISTANCE	EACH
STA. 14+03	35' LT	1
STA. 53+60	35' LT	1
STA. 53+60	47' RT	1
STA. 54+25	35' LT	1
STA. 54+25	43' RT	1
STA. 3+64.44N	35' LT	1
STA. 3+64.44N	35' RT	1
STA. 4+83.83N	35' LT	1
STA. 4+83.83N	35' RT	1
STA. 5+79.61N	57.10' LT	1
STA. 5+86.93N	35' LT	1
STA. 6+11.11N	35' LT	1
STA. 6+11.11N	35' RT	1
STA. 8+87.30N	35' LT	1
STA. 8+87.30N	35' RT	1
STA. 11+31.84N	35' LT	1
STA. 11+31.84N	35' RT	1
STA. 13+60.63N	35' LT	1
STA. 13+60.63N	35' RT	1

FURNISHING & ERECTING R.O.W. MARKERS		
STATION	DISTANCE	EACH
STA. 19+78.71N	35' LT	1
STA. 19+78.71N	35' RT	1
STA. 21+69.71N	35' LT	1
STA. 21+69.71N	35' RT	1
STA. 23+53.15N	35' LT	1
STA. 23+53.15N	35' RT	1
STA. 26+28.26N	35' LT	1
STA. 26+28.26N	35' RT	1
STA. 27+02.89N	35' LT	1
STA. 27+02.89N	35' RT	1
STA. 27+77.04N	35' LT	1
STA. 27+77.04N	35' RT	1
STA. 36+51N	35' LT	1
STA. 36+56N	38' RT	1
TOTALS		33

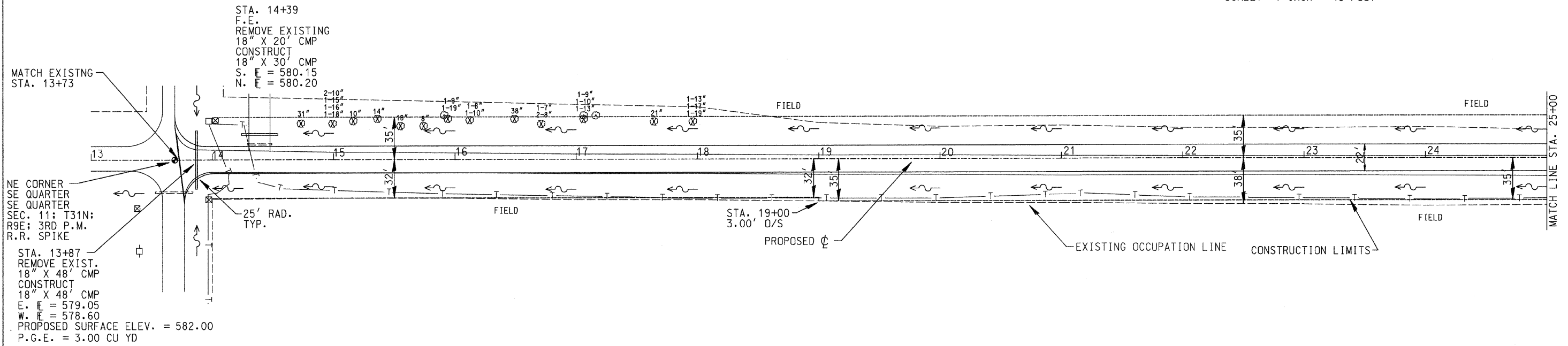
ROADWAY SCHEDULE									
LOCATION	AGG. BASE CSE., TY. A TON	BIT. MATL. PR. CT. GALLON	BIT. MATL. C & S CT. GALLON	COVER COAT AGGREGATE TON	SEAL COAT AGGREGATE TON	HMA BINDER CSE., IL-19.0, N50 TON	HMA SURF. CSE., MIX D. N50 TON	AGG. SHLD. TY. A, 6" SQ. YD.	HMA SHLD. 6" SQ. YD.
STA. 13+73 - STA. 72+71.08	10,750	6,291	15,140	360	180				
STA. 2+25N - STA. 3+64.41N	254	149				86	29		124
STA. 3+64.41N - STA. 15+85N	2,226	1,302				754	251		1,086
STA. 15+85N - STA. 18+27N							125		
STA. 18+27N - STA. 27+77.04N	1,737	1,013				589	199		851
STA. 27+77.04N - STA. 29+00N	224	131				76	25		109
STA. 29+00N - STA. 36+93N	1,449	846				488	166		
STA. 20+00N LT DRIVEWAY	55	35				26	10		
STA. 27+98N DRIVEWAY	10	5				15	5		
STA. 29+00N LT - STA. 36+93N LT								355	
STA. 29+00N RT - STA. 36+93N RT								355	
STA. 36+81N LT INTERSECTION	120	64				50	20		
STA. 36+81N RT INTERSECTION	100	53				45	15		
5000N ROAD									
STA. 0+33E - STA. 3+00E	370	215	500	15	8				
TEMPORARY ACCESS	200								
MAILBOX TURNOUTS	20								
TOTALS	17,515	10,104	15,640	375	188	2,129	845	710	2,170

STEEL PLATE BEAM GUARD RAIL, TYPE A	
LOCATION	FOOT
STA. 35+00LT - STA. 35+50LT	50
STA. 35+00RT - STA. 35+50RT	50
STA. 18+24.25N LT - STA. 18+61.75N LT	37.5
STA. 18+54.25N RT - STA. 19+79.25N RT	125
TOTAL	262.5

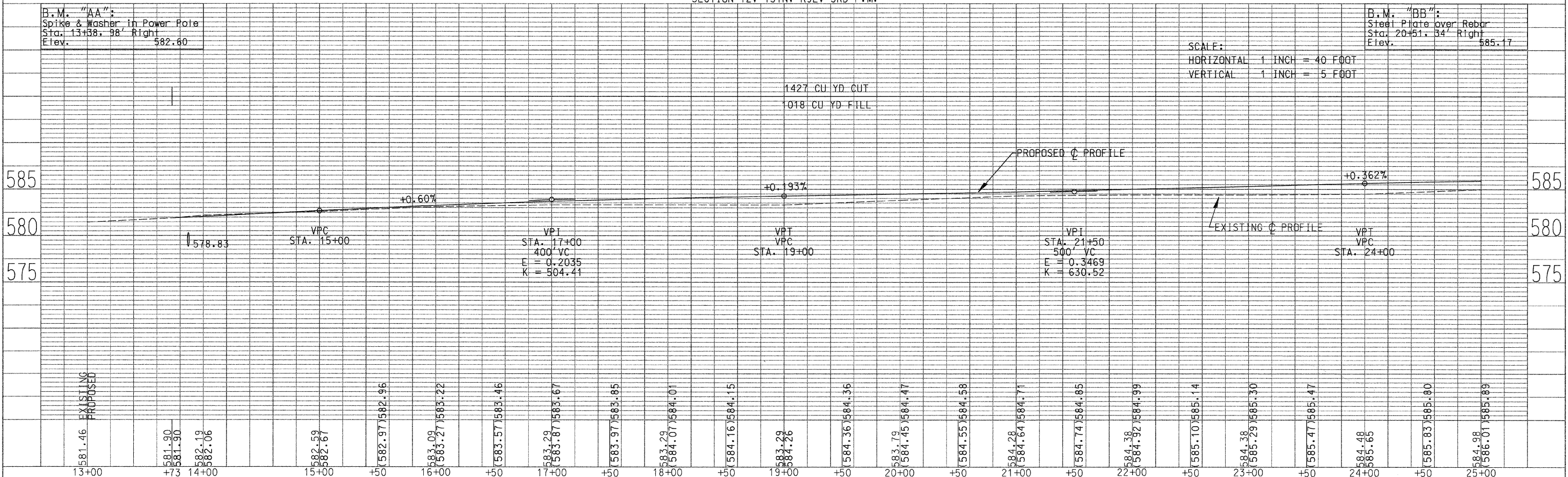
SECTION 11; T31N; R9E; 3RD P.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	14
CONTRACT NO. 87374				

SCALE: 1 INCH = 40 FOOT



SECTION 12; T31N; R9E; 3RD P.M.

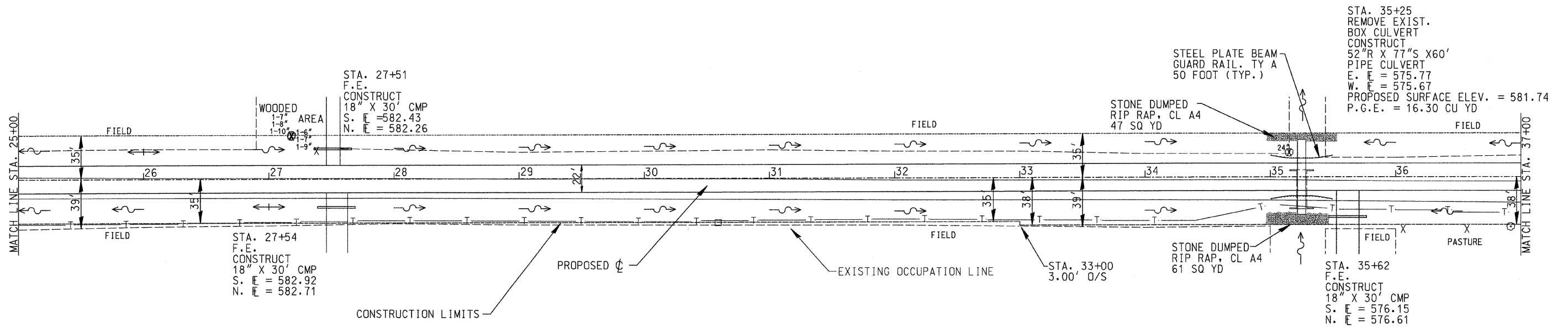


SCALE:  
HORIZONTAL 1 INCH = 40 FOOT  
VERTICAL 1 INCH = 5 FOOT

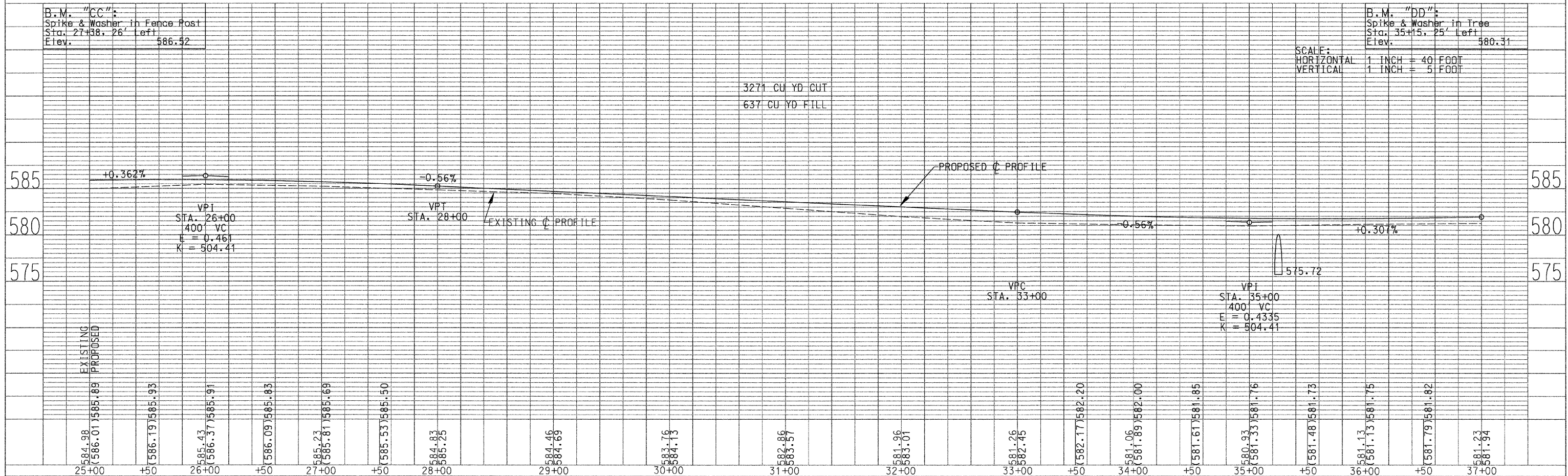
SECTION 11: T31N; R9E; 3RD P.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	15
CONTRACT NO. 87374				

SCALE: 1 INCH = 40 FOOT



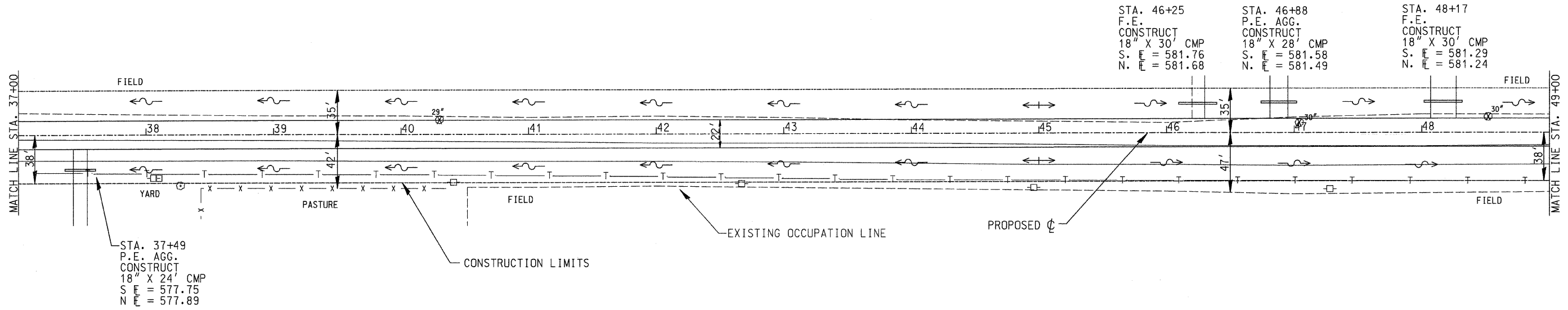
SECTION 12: T31N; R9E; 3RD P.M.



SECTION 11: T31N; R9E; 3RD P.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	16
CONTRACT NO. 87374				

SCALE: 1 INCH = 40 FOOT



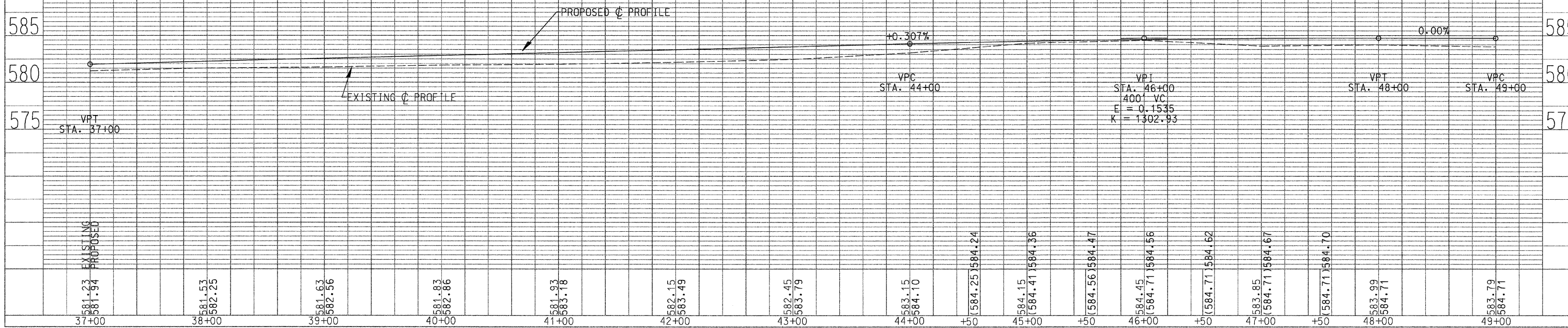
SECTION 12: T31N; R9E; 3RD P.M.

B.M. "DD":  
Spike & Washer in Tree  
Sta. 35+15, 25' Left  
Elev. 580.31

B.M. "EE":  
Spike & Washer in Power Pole  
Sta. 42+67, 32' Right  
Elev. 584.57

SCALE:  
HORIZONTAL 1 INCH = 40 FOOT  
VERTICAL 1 INCH = 5 FOOT

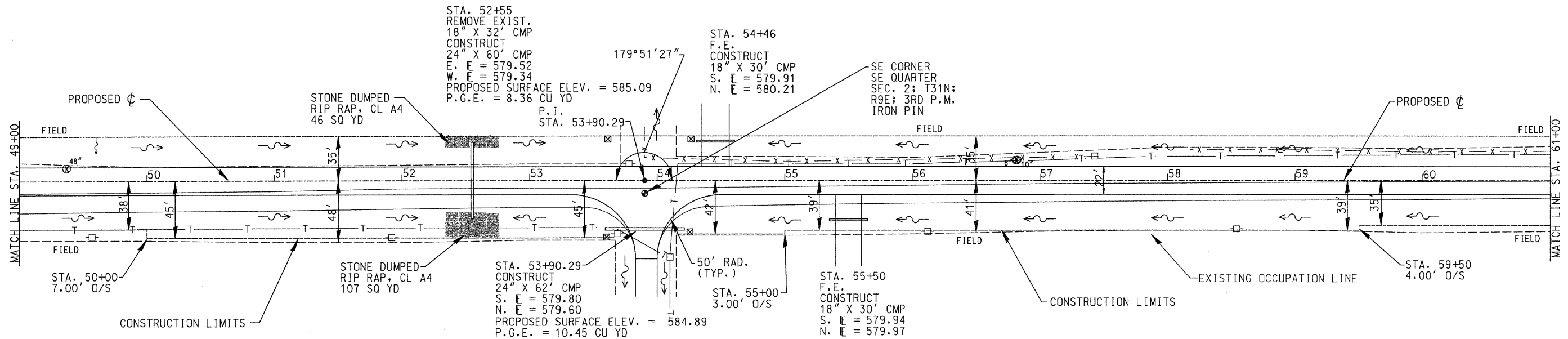
2209 CU YD CUT  
726 CU YD FILL





ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	17
CONTRACT NO. 87374				

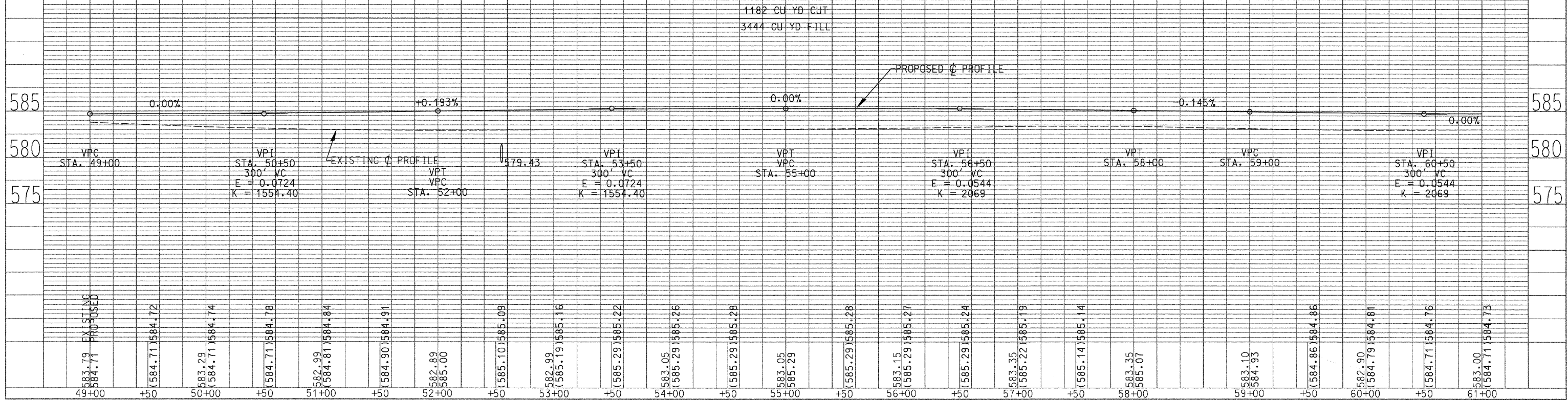
SCALE: 1 INCH = 40 FOOT



B.M. "FF":  
Spike & Washer in Power Pole  
Sta. 51+92, 35' Right  
Elev. 582.32

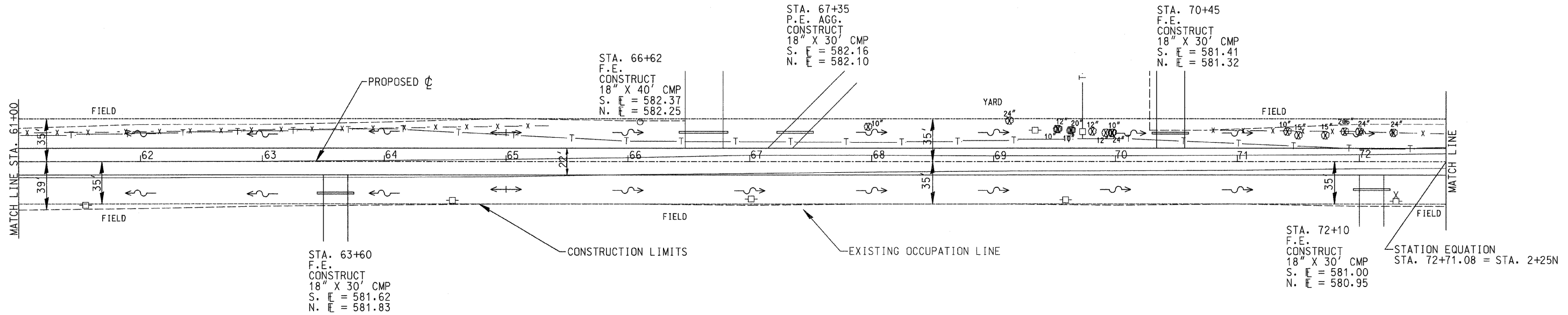
B.M. "GG":  
Spike & Washer in Power Pole  
Sta. 58+54, 28' Right  
Elev. 582.79

SCALE:  
HORIZONTAL 1 INCH = 40 FEET  
VERTICAL 1 INCH = 5 FEET



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	18
CONTRACT NO.		87374		

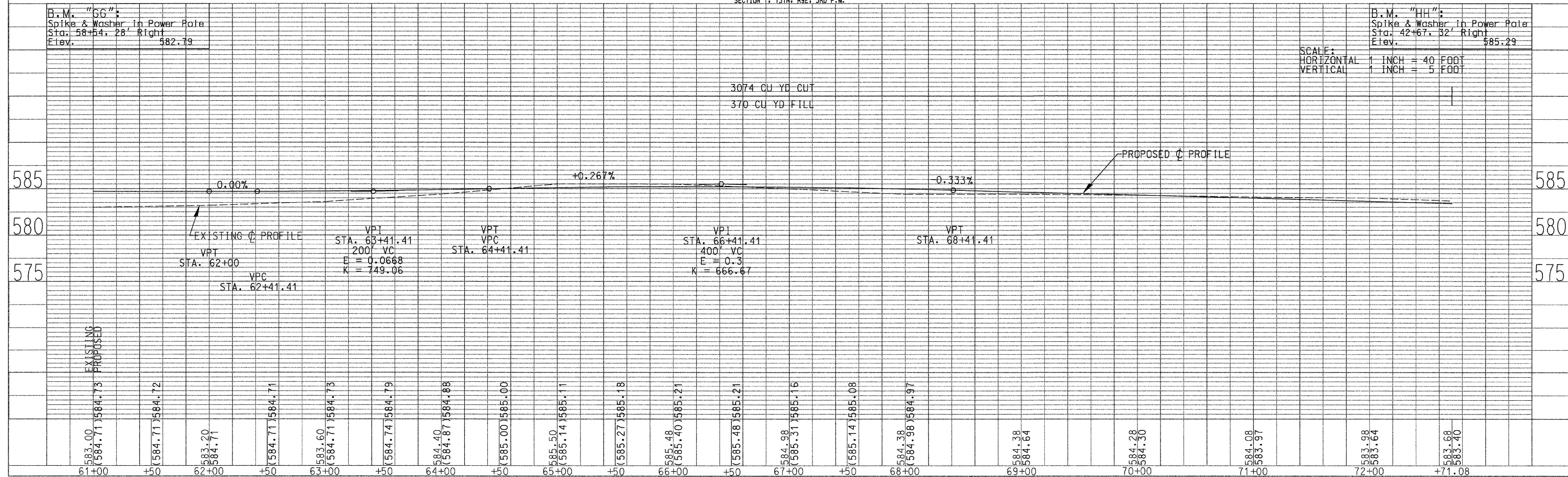
SCALE: 1 INCH = 40 FOOT



B.M. "GG":  
Spike & Washer in Power Pole  
Sta. 58+54, 28' Right  
Elev. 582.79

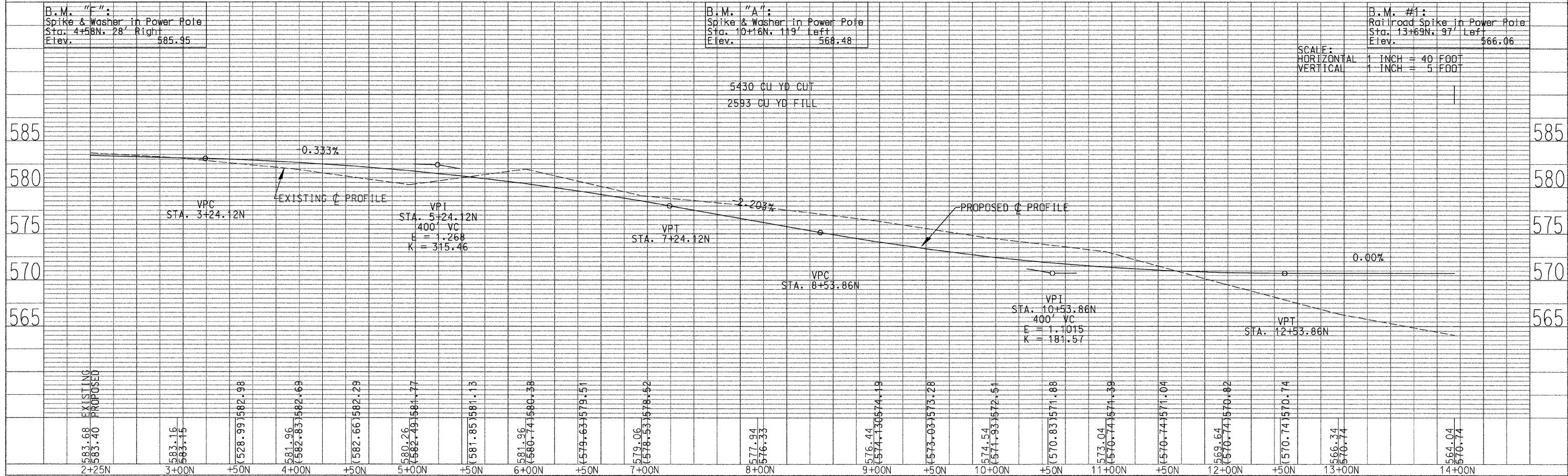
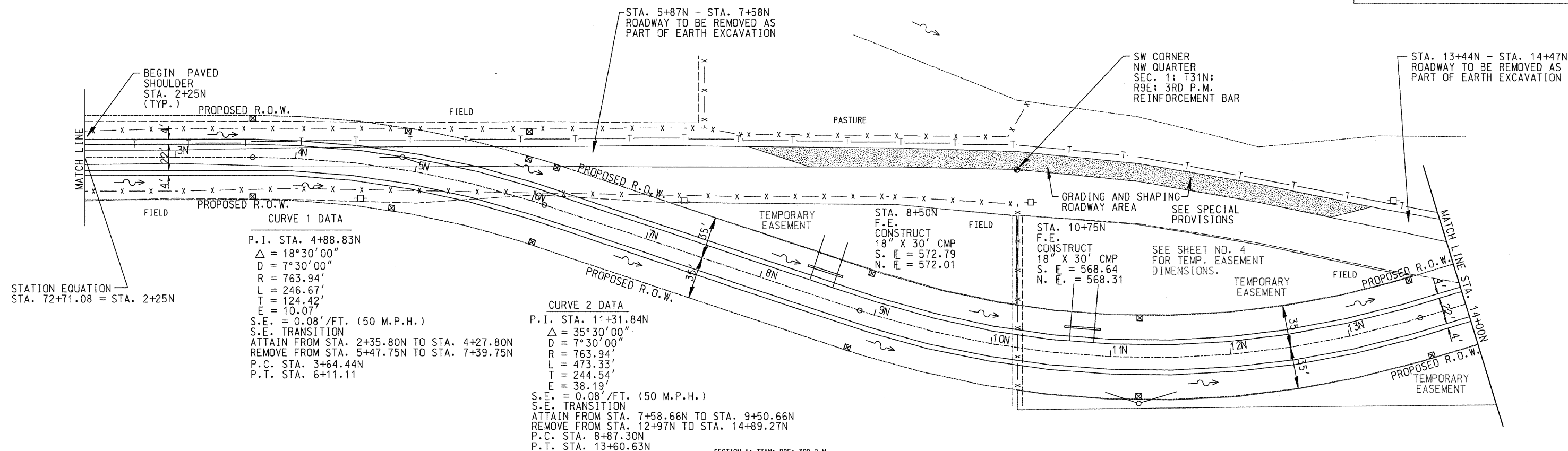
B.M. "HH":  
Spike & Washer in Power Pole  
Sta. 42+67, 32' Right  
Elev. 585.29

SCALE:  
HORIZONTAL 1 INCH = 40 FOOT  
VERTICAL 1 INCH = 5 FOOT



ROUTE NO.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
CH 48	85-00221-00-BR	KANKAKEE	56	19
CONTRACT NO. 87374				

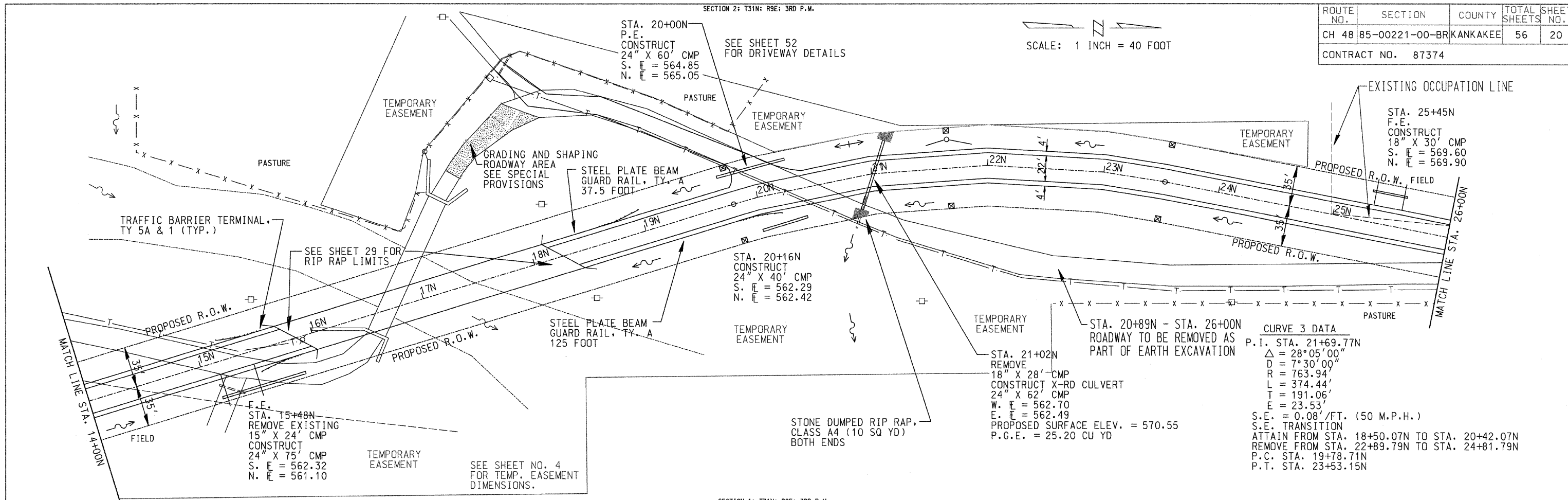
SCALE: 1 INCH = 40 FOOT



SECTION 2: T31N: R9E: 3RD P.M.

SCALE: 1 INCH = 40 FOOT

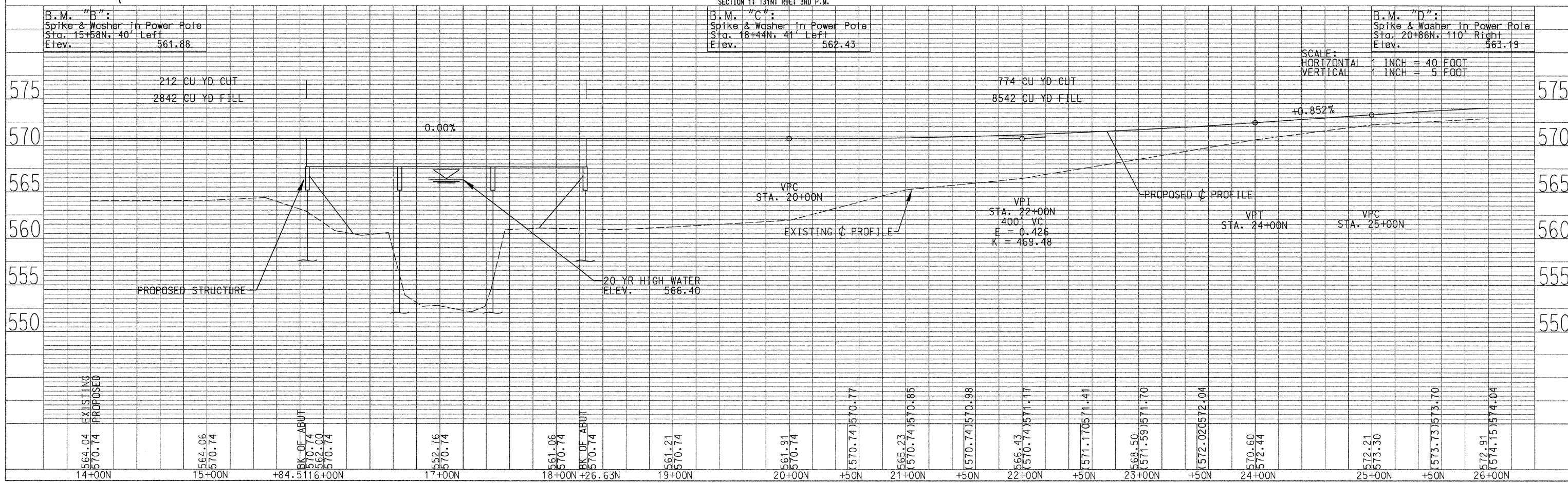
ROUTE NO.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
CH 48	85-00221-00-BR	KANKAKEE	56 20
CONTRACT NO. 87374			



**CURVE 3 DATA**

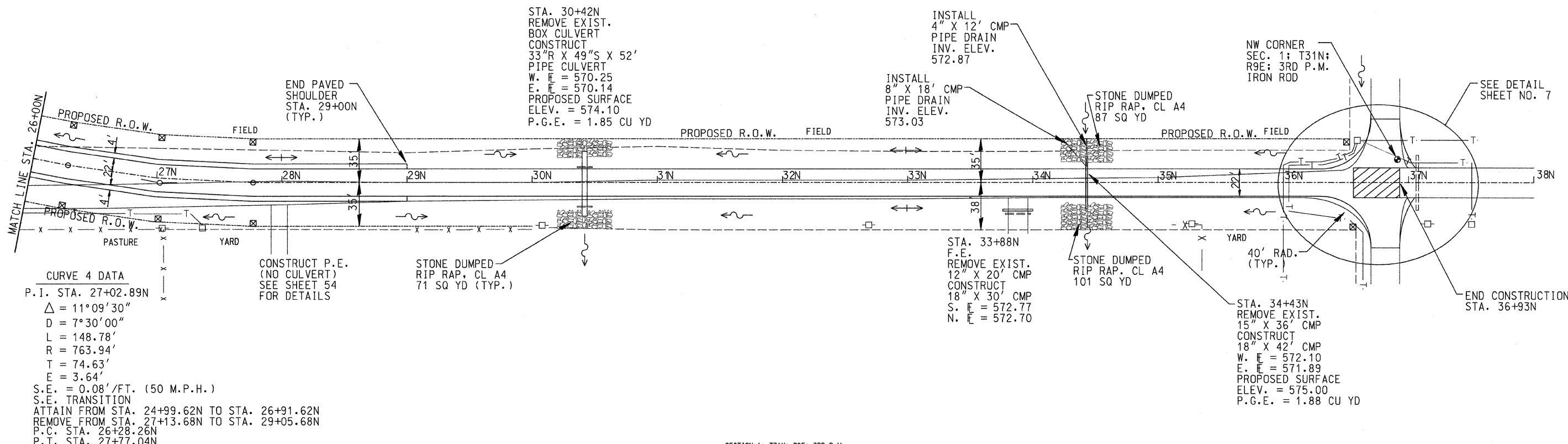
P.I.	STA. 21+69.77N
$\Delta$	= 28°05'00"
D	= 7°30'00"
R	= 763.94'
L	= 374.44'
T	= 191.06'
E	= 23.53'
S.E.	= 0.08'/FT. (50 M.P.H.)
S.E. TRANSITION	ATTAIN FROM STA. 18+50.07N TO STA. 20+42.07N
	REMOVE FROM STA. 22+89.79N TO STA. 24+81.79N
P.C.	STA. 19+78.71N
P.T.	STA. 23+53.15N

SECTION 1: T31N: R9E: 3RD P.M.

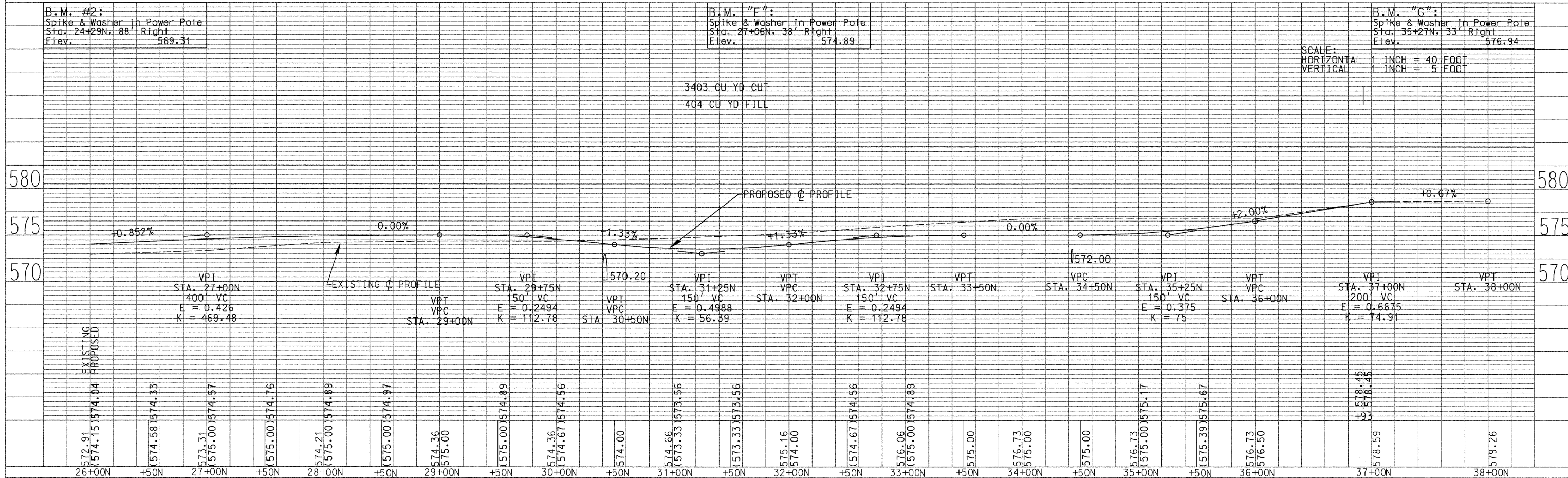


SCALE: 1 INCH = 40 FOOT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	21
CONTRACT NO. 87374				

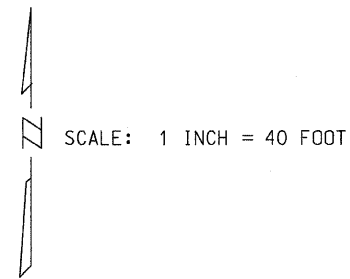
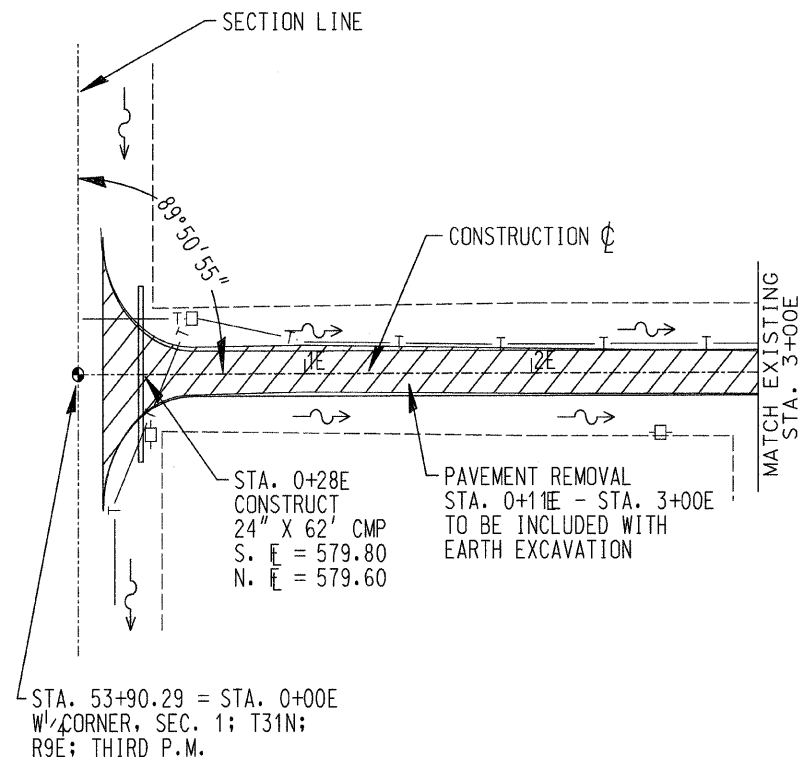


**CURVE 4 DATA**  
 P.I. STA. 27+02.89N  
 $\Delta = 11^{\circ}09'30''$   
 $D = 7^{\circ}30'00''$   
 $L = 148.78'$   
 $R = 763.94'$   
 $T = 74.63'$   
 $E = 3.64'$   
 S.E. = 0.08'/FT. (50 M.P.H.)  
 S.E. TRANSITION  
 ATTAIN FROM STA. 24+99.62N TO STA. 26+91.62N  
 REMOVE FROM STA. 27+13.68N TO STA. 29+05.68N  
 P.C. STA. 26+28.26N  
 P.T. STA. 27+77.04N



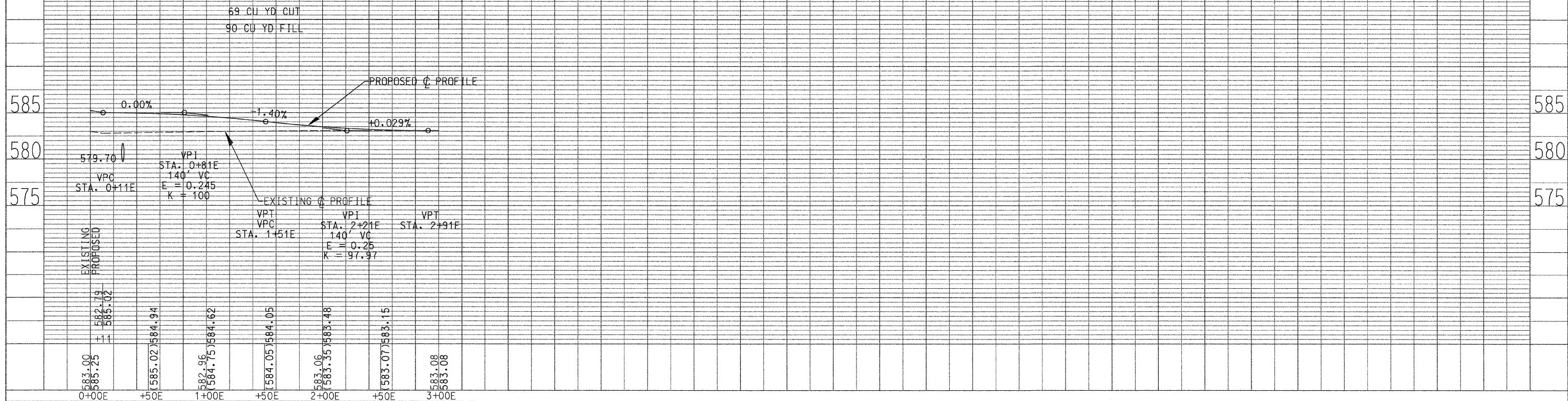
SCALE:  
 HORIZONTAL 1 INCH = 40 FOOT  
 VERTICAL 1 INCH = 5 FOOT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
CH 48	85-00221-00-BR	KANKAKEE	56 22
CONTRACT NO.			87374



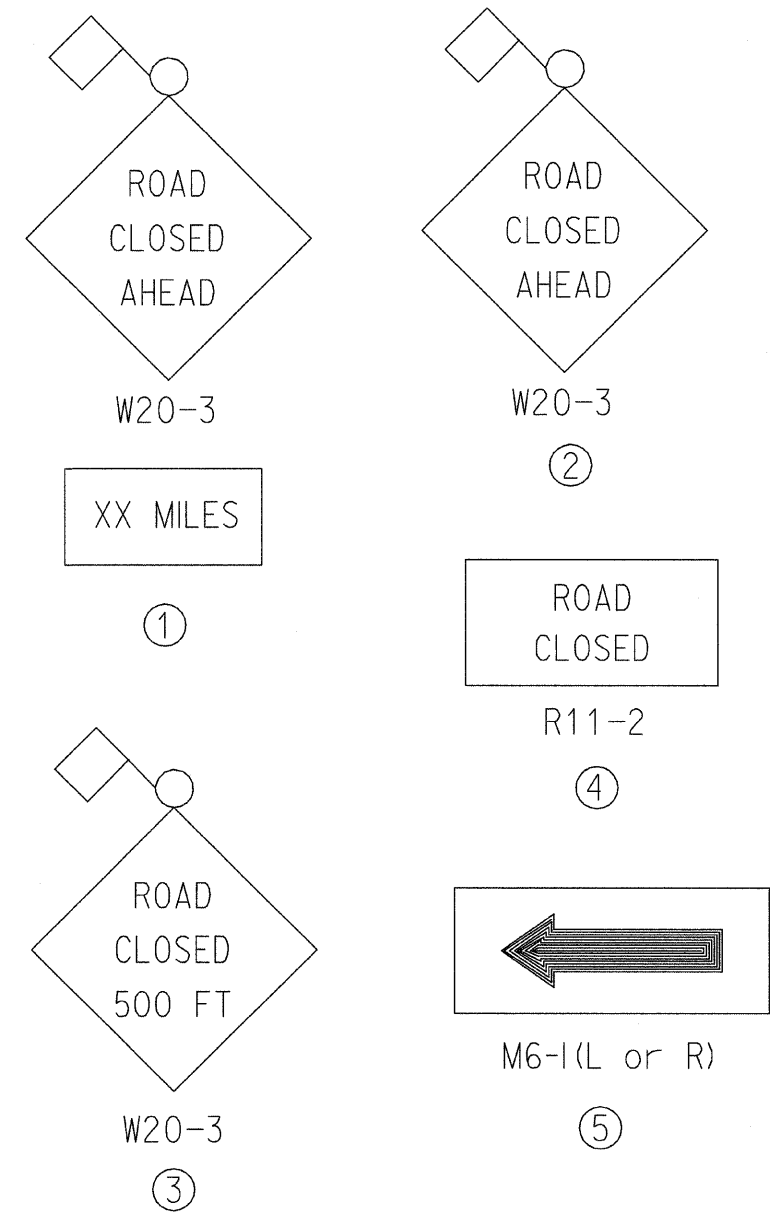
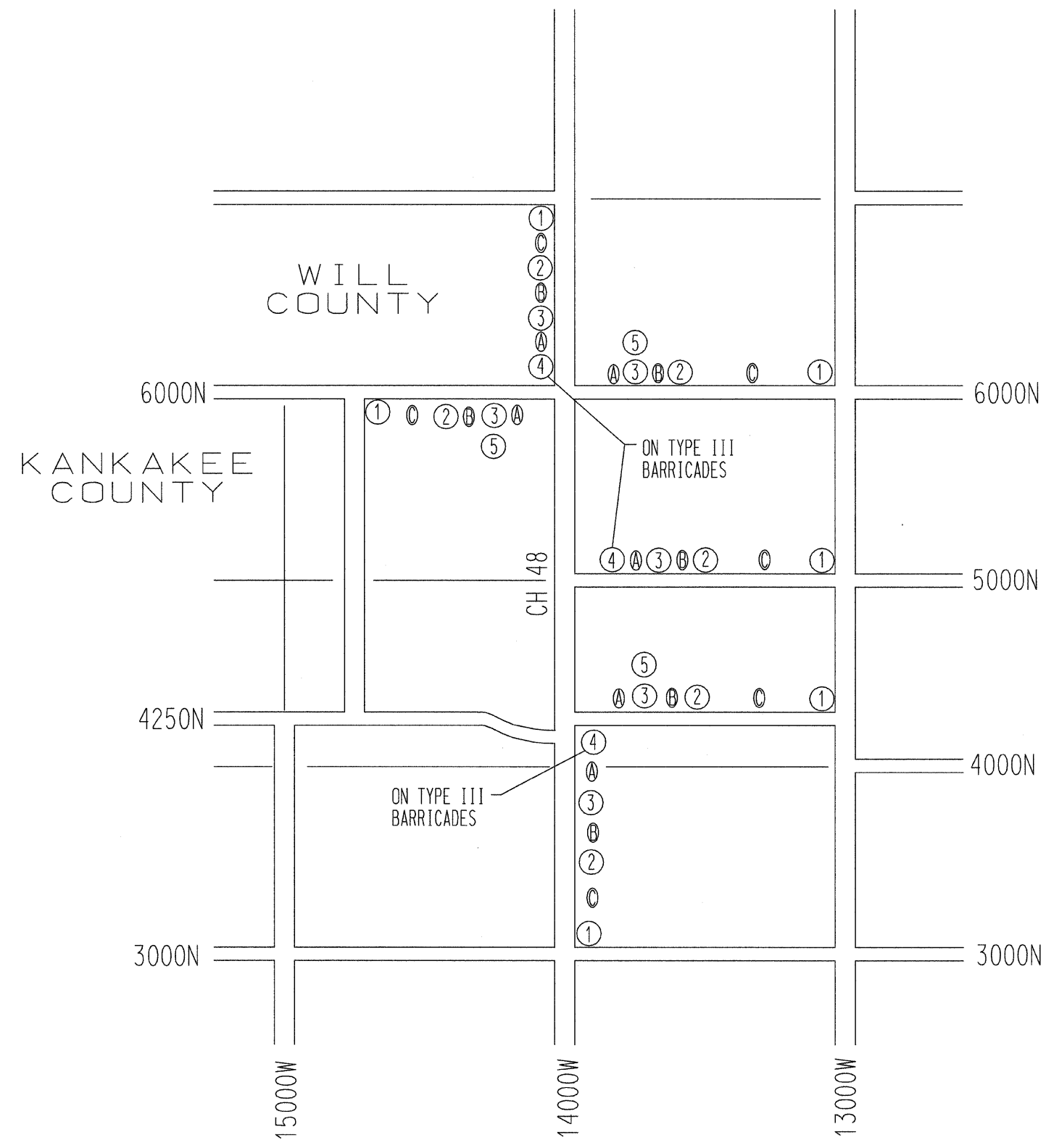
B.M. "FF"  
Spike & Washer in Power Pole  
Sta. 51+92.35' Right  
Elev. 582.32

SCALE:  
HORIZONTAL 1 INCH = 40 FOOT  
VERTICAL 1 INCH = 5 FOOT



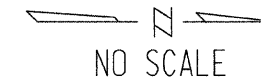
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	85-00221-00-BR	KANKAKEE	56	23
CONTRACT NO. 87374				

# TRAFFIC CONTROL PLAN



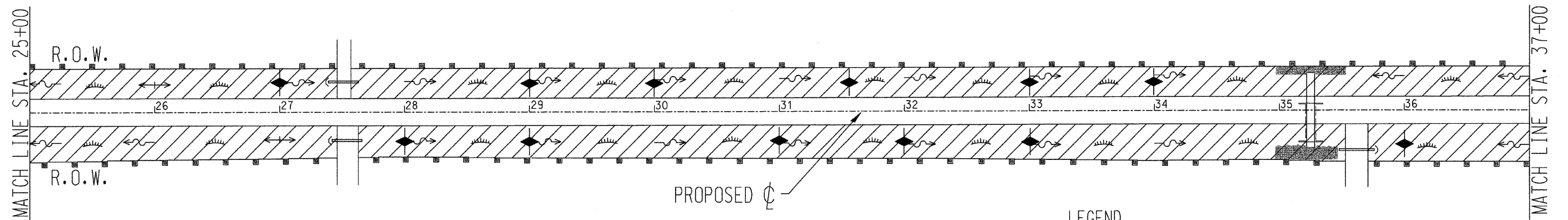
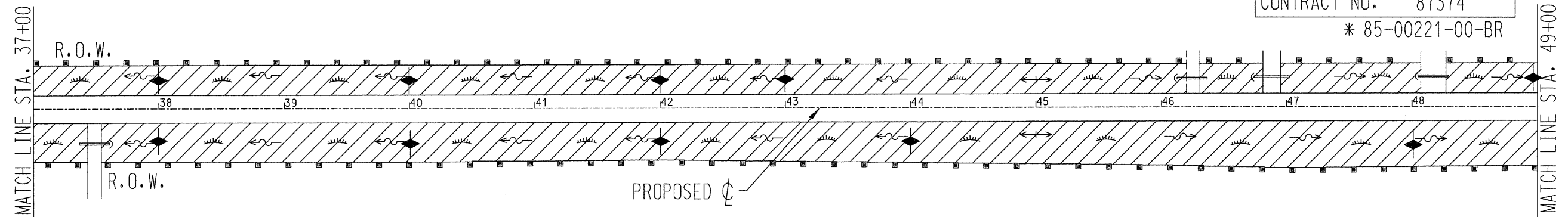
A = 500'  
 B = 1000'  
 C = VARIABLE

# EROSION CONTROL PLAN



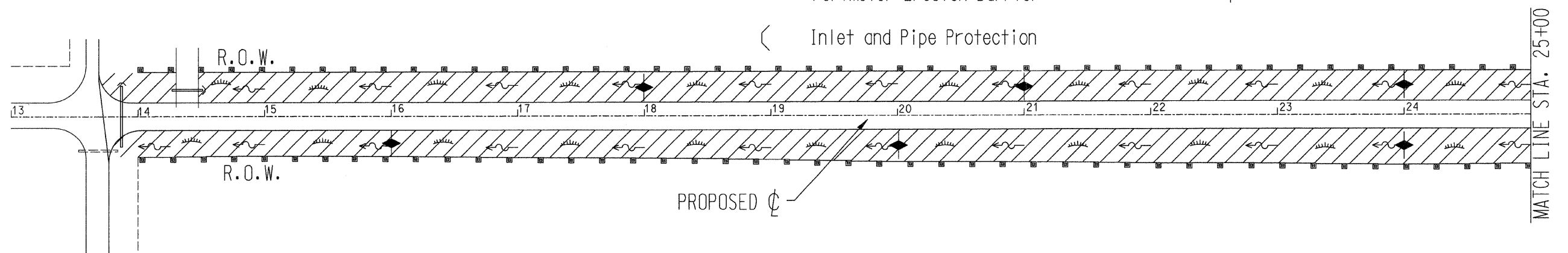
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
48	*	KANKAKEE	56	24

CONTRACT NO. 87374  
\* 85-00221-00-BR



### LEGEND

- Temporary Erosion Control
- Seeding, Class 2 (Special) & Mulch, Method 3
- Perimeter Erosion Barrier
- Temporary Ditch Check
- Direction of Flow
- Inlet and Pipe Protection
- Rip Rap



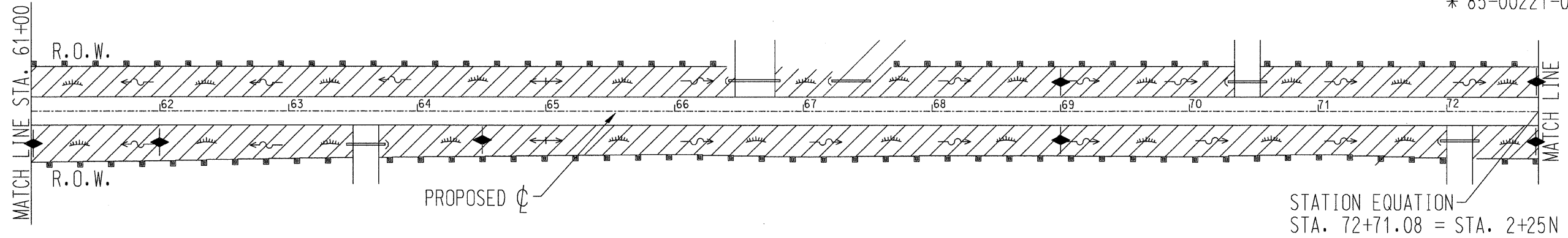


# EROSION CONTROL PLAN

NO SCALE

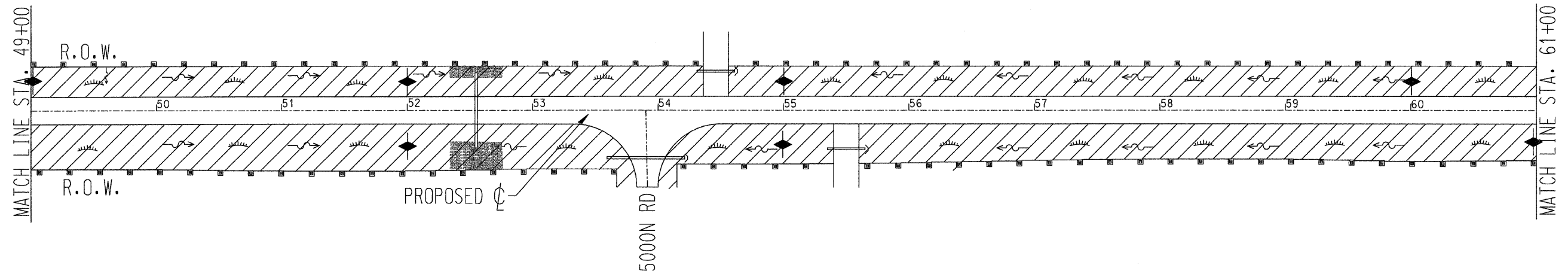
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	25

CONTRACT NO. 87374  
\* 85-00221-00-BR

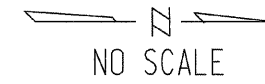


### LEGEND

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li> Temporary Erosion Control</li> <li> Seeding, Class 2 (Special) &amp; Mulch, Method 3</li> <li> Perimeter Erosion Barrier</li> <li> Inlet and Pipe Protection</li> </ul> | <ul style="list-style-type: none"> <li> Rip Rap</li> <li> Direction of Flow</li> <li> Temporary Ditch Check</li> </ul> |
|---|--|

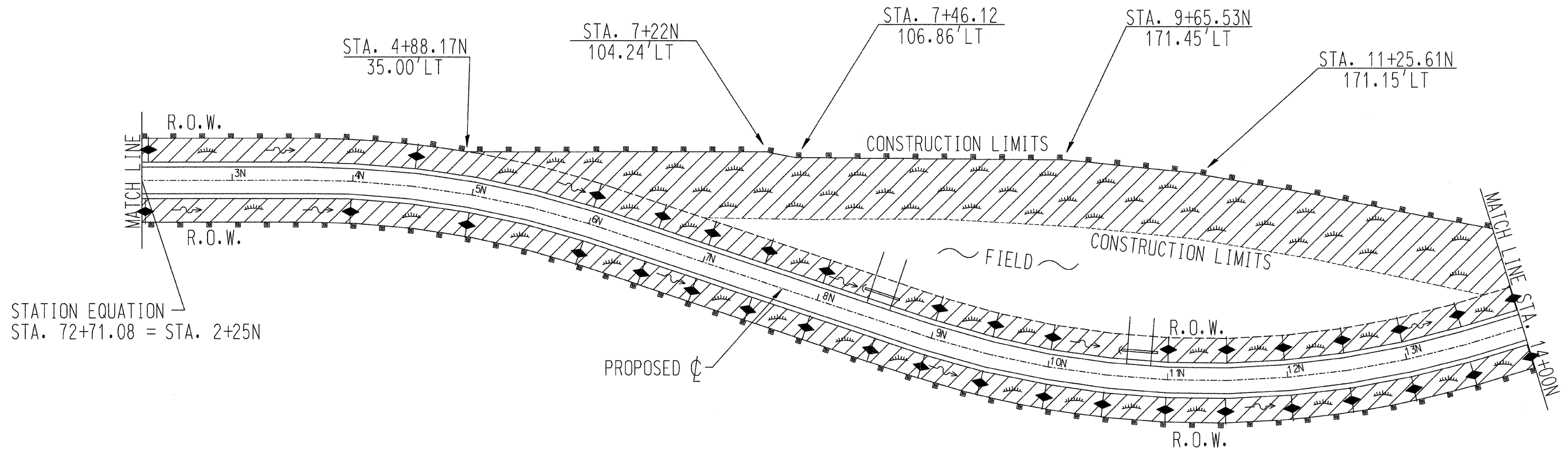


# EROSION CONTROL PLAN



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	26

CONTRACT NO. 87374  
\* 85-00221-00-BR

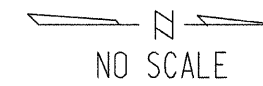


STATION EQUATION  
STA. 72+71.08 = STA. 2+25N

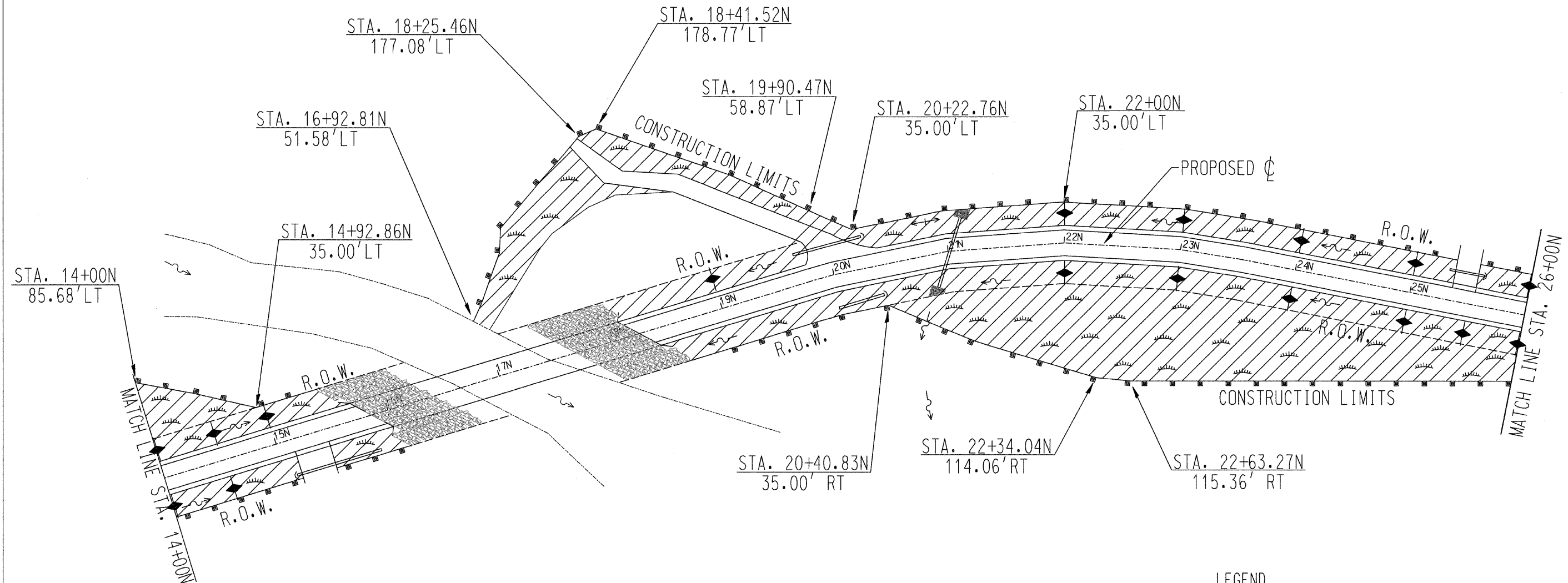
### LEGEND

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li> Temporary Erosion Control</li> <li> Seeding, Class 2 (Special) &amp; Mulch, Method 3</li> <li> Perimeter Erosion Barrier</li> <li> Inlet and Pipe Protection</li> </ul> | <ul style="list-style-type: none"> <li> Rip Rap</li> <li> Direction of Flow</li> <li> Temporary Ditch Check</li> </ul> |
|---|--|

# EROSION CONTROL PLAN



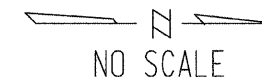
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
48	*	KANKAKEE	56	27
CONTRACT NO. 87374				
* 85-00221-00-BR				



### LEGEND

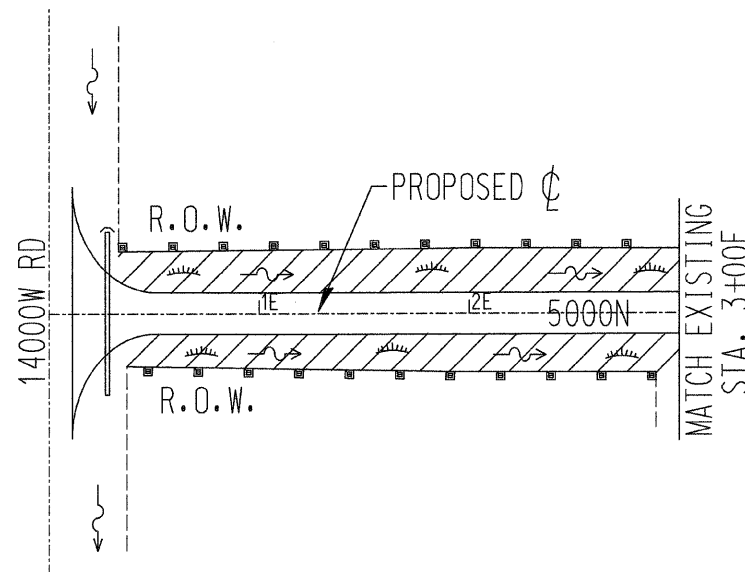
- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li> Temporary Erosion Control</li> <li> Seeding, Class 2 (Special) &amp; Mulch, Method 3</li> <li> Perimeter Erosion Barrier</li> <li> Inlet and Pipe Protection</li> </ul> | <ul style="list-style-type: none"> <li> Rip Rap</li> <li> Direction of Flow</li> <li> Temporary Ditch Check</li> </ul> |
|---|--|

# EROSION CONTROL PLAN



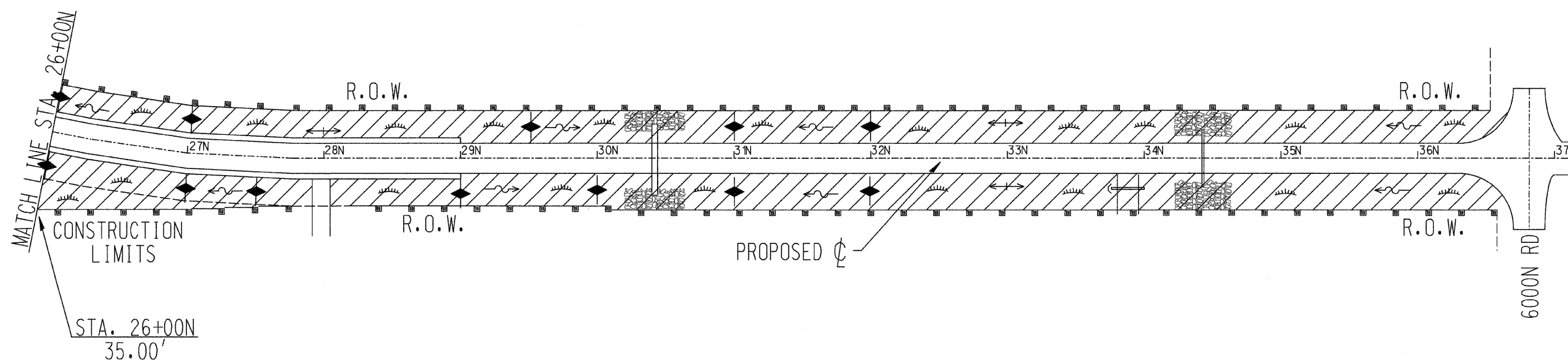
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	28

CONTRACT NO. 87374  
\* 85-00221-00-BR



## LEGEND

- Temporary Erosion Control
- Seeding, Class 2 (Special) & Mulch, Method 3
- Perimeter Erosion Barrier
- Inlet and Pipe Protection
- Rip Rap
- Direction of Flow
- Temporary Ditch Check



Existing Structure: Existing Structure is a one span wrought iron through truss with a timber plank deck on stone masonry abutments. There is no skew.

**BORING DATA**

CONTRACT # 87374

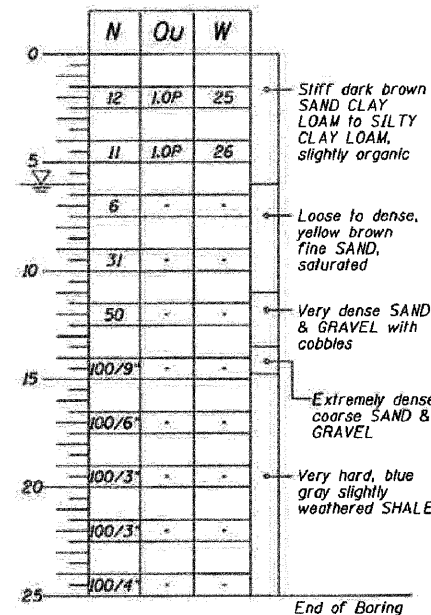
ROUTE NO.	SECTION	TOWNSHIP	RANGE	SHEET NO.
CH 48	*	KANKAKEE	56	29
FED. AND DIST. NO.	APPROX	FED. AID PROJECT		

\*85-00221-00-BR

**BORING B-1**

Location: STA 15+12, 20' RT  
Elev. 561 (+)

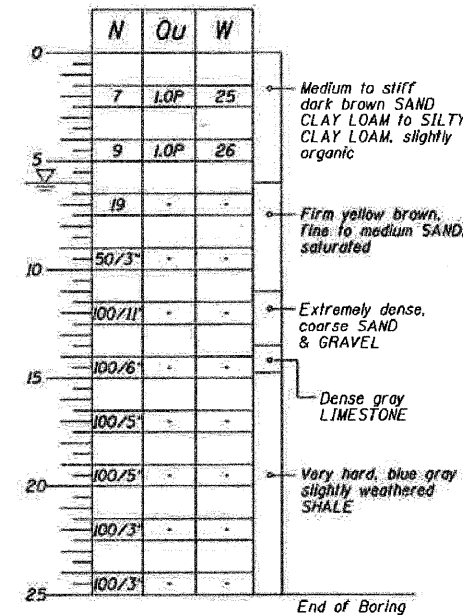
Water Levels  
At Completion: 6' down



**BORING B-2**

Location: STA 15+00, 20' RT  
Elev. 560.5 (+)

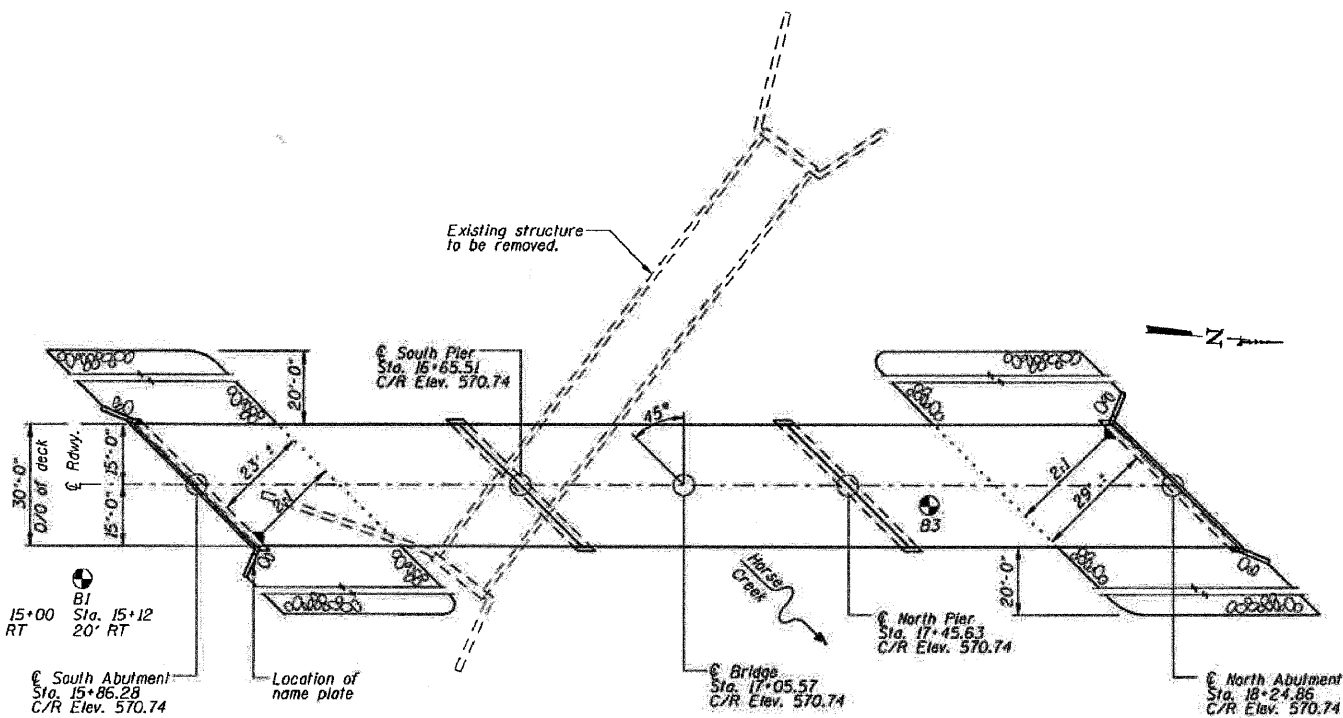
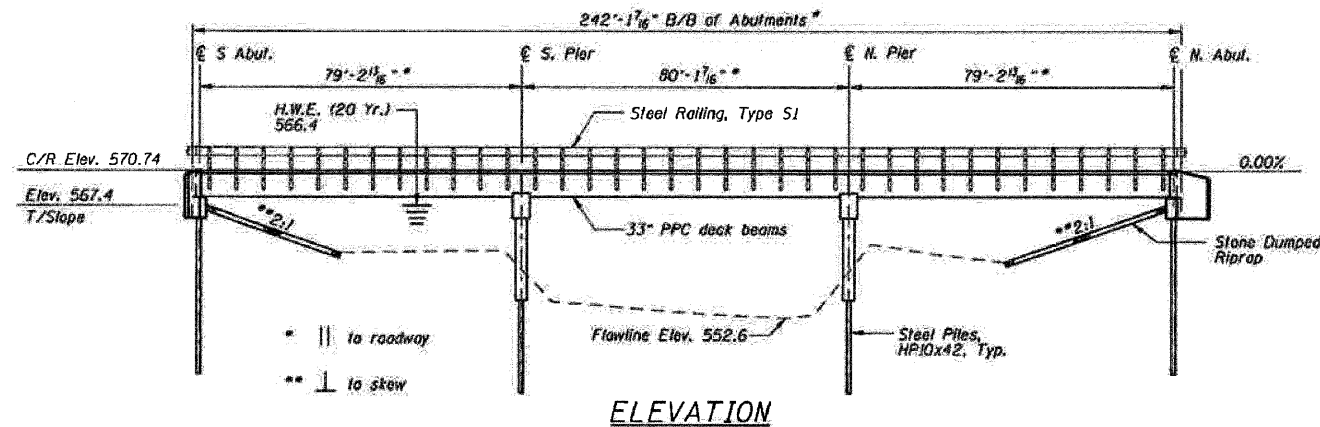
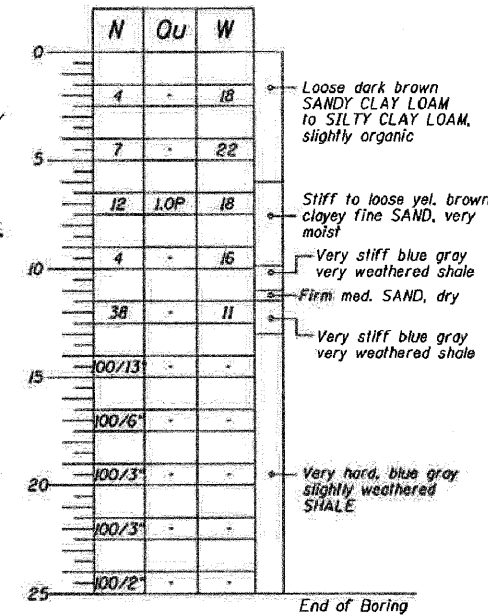
Water Levels  
At Completion: 6' down



**BORING B-3**

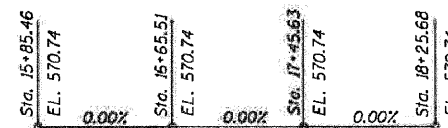
Location: STA 17+60, 5' LT  
Elev. 560.6 (+)

Water Levels  
At Completion: Dry



STRUCTURE NO. 046-3441  
SEC. 85-00221-00-BR BUILT 200  
COUNTY HIGHWAY 48  
KANKAKEE COUNTY  
LOADING HL-93

NAME PLATE  
See Standard 515001



**PROFILE GRADE**

**WATERWAY DATA**

Drainage Area	108.8 Sq. Mi.
Existing Opening	1012 Sq. Ft.
Required Opening (20 Yr.)	1267 Sq. Ft.
Proposed Opening (20 Yr.)	1300 Sq. Ft.
Design Discharge (20 Yr.)	5391 C.F.S.
Computed Discharge (100 Yr.)	7503 C.F.S.
20 Yr. Head	0.00 Ft.
100 Yr. Head	0.15 Ft.

**DESIGN SPECIFICATIONS**

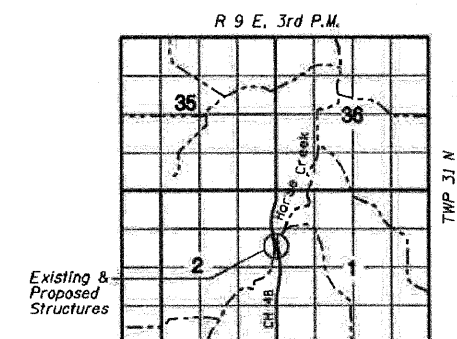
AASHTO LRFD 4th Edition

**DESIGN LOADING**

HL-93  
25 P.S.F Future Wearing Surface

**DESIGN STRESSES**

$f'_c = 3,500$  psi (Cast in Place Concrete)  
 $f'_c = 6,000$  psi (P.P.C. Units)  
 $f_{ci} = 5,000$  psi (P.P.C. Units)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_s = 270,000$  psi ( $1/2$ "  $\phi$  Strands)  
 $f_{si} = 201,960$  psi ( $1/2$ "  $\phi$  Strands)



**LOCATION SKETCH**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A4	Sq. Yds.		714	714
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yds.		52	52
Concrete Structures	Cu. Yds.		119.5	119.5
Precast Prestressed Concrete Deck Beams (33" Deep)	Sq. Ft.	7200		7200
Reinforcement Bars	Pound		8530	8530
Steel Railing, Type S1	Foot	481		481
Furnishing Steel Piles HP10x42	Foot		720	720
Driving Piles	Foot		720	720
Test Pile Steel HP10x42	Each		4	4
Pile Shoes	Each		42	42
Name Plates	Each		1	1
Waterproofing Membrane System	Sq. Yds.	800		800
Concrete Cul-off Wall	Cu. Yds.		8.5	8.5

**GENERAL NOTES**

- The Contractor shall drive test piles to 110% of the Nominal Required Bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.
- Boring Data is shown only as a guide to bidders in estimating soil conditions which may be encountered during construction.
- Class S1 or M5 Concrete shall be used in the abutments.
- Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60 (IL Modified). See Special Provisions.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- The cost of preventing water from flowing into excavation and the cost of water and groundwater removal shall be incidental to the cost of Structural Excavation.



I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO Standard Specifications for Highway Bridges."

*Kelly Jo Hoffmann*  
KELLY JO HOFFMANN  
Illinois Licensed Structural Engineer Number 6497  
License Expires 11/30/10

DESIGN	K.J. Hoffmann				
CHECK	K.J. Hoffmann				
APPROVED	J.R. Wolf				
APPROVED	J.A. Frauenhoffer	NO. DATE	REVISION	BY	APPROVED

**FRAUENHOFFER**

Frauenhoffer and Associates, P.C. Consulting Engineers  
3002 Crossing Court Champaign, IL 61822 217-351-6268

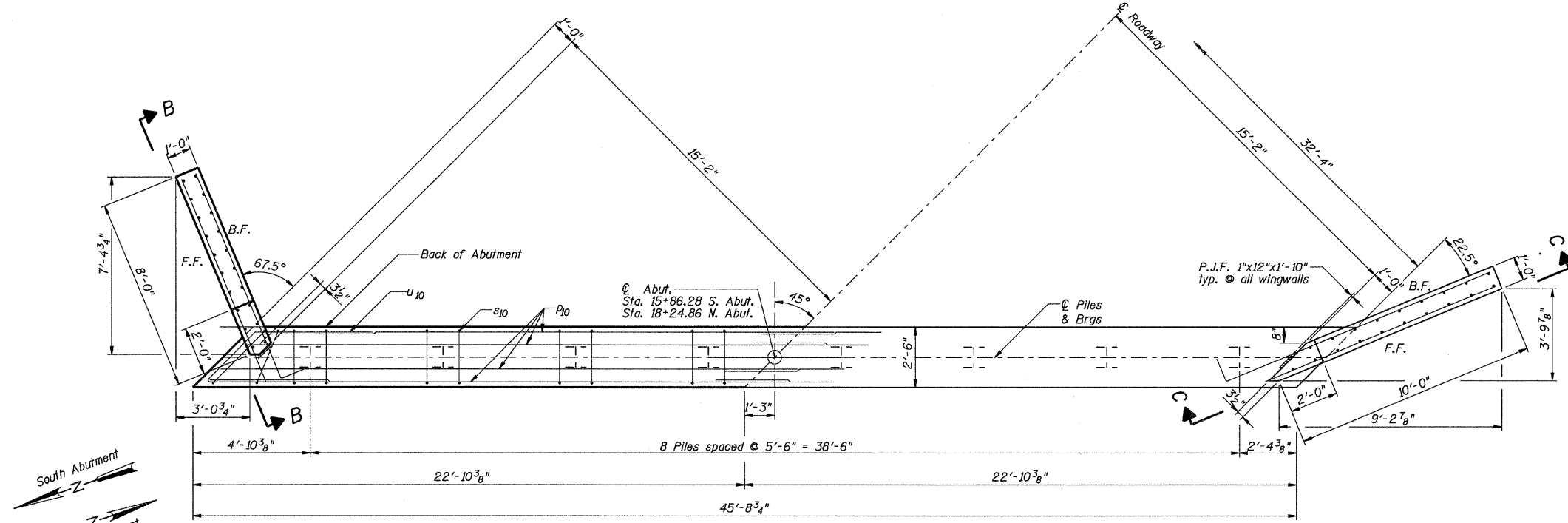
**GENERAL PLAN AND ELEVATION**

CH 48 OVER HORSE CREEK  
SECTION 85-00221-00-BR  
KANKAKEE COUNTY

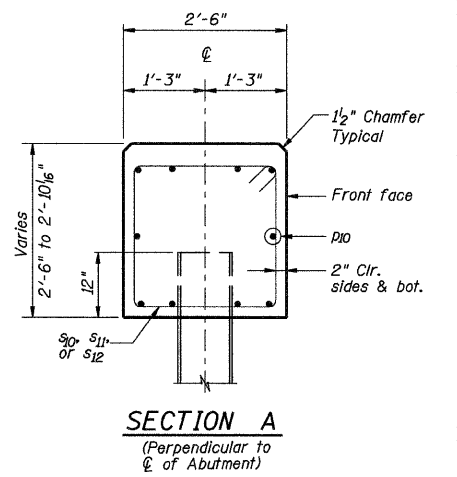
SHEET	29
DWG NO.	gpe.dgn
DATE	JAN 2009
PROJ NO.	85019

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
C.H. 48	*	Kankakee	56	30

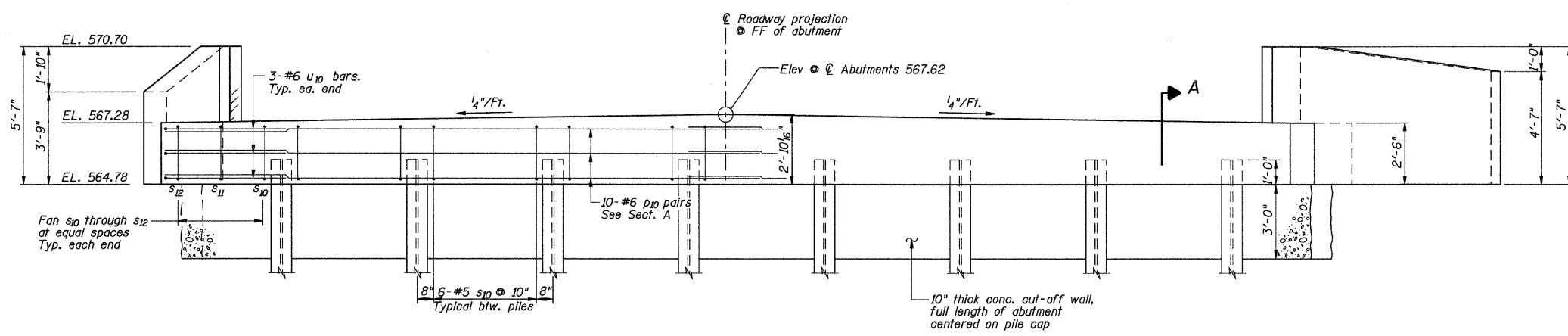
\*85-00221-00-BR



**PLAN**  
(Symmetrical about  $\phi$  Abutment)



**SECTION A**  
(Perpendicular to  $\phi$  of Abutment)



**ELEVATION**  
Front Projection  
(Symmetrical about  $\phi$  Pier)

NOTE: All edges shall have Standard  $\frac{3}{4}$ \" Chamfer, except as noted.

**BILL OF MATERIAL - 2 ABUTS.**

Bar	No.	Size	Length	Shape
h <sub>10</sub>	6	# 5	9'-1\"	—
h <sub>11</sub>	6	# 5	10'-4\"	—
h <sub>12</sub>	4	# 5	7'-7\"	—
h <sub>13</sub>	4	# 5	5'-5\"	—
h <sub>14</sub>	4	# 5	7'-10\"	—
h <sub>15</sub>	6	# 5	10'-4\"	—
h <sub>16</sub>	6	# 5	12'-10\"	—
h <sub>17</sub>	4	# 5	9'-8\"	—
h <sub>18</sub>	4	# 5	8'-2\"	—
h <sub>19</sub>	2	# 5	9'-8\"	—
h <sub>20</sub>	2	# 5	8'-2\"	—
P10	40	# 6	24'-0\"	—
S10	88	# 5	9'-7\"	—
S11	4	# 5	9'-11\"	—
S12	4	# 5	11'-5\"	—
U10	12	# 6	12'-10\"	—
V1	18	# 4	5'-4\"	—
V2	4	# 4	5'-1\"	—
V3	4	# 4	4'-10\"	—
V4	4	# 4	4'-7\"	—
V5	4	# 4	4'-4\"	—
V6	4	# 4	4'-1\"	—
V7	4	# 4	3'-10\"	—
V8	4	# 4	3'-7\"	—
V9	4	# 4	5'-0\"	—
V10	4	# 4	4'-11\"	—
V11	4	# 4	4'-9\"	—
V12	4	# 4	4'-8\"	—
V13	4	# 4	4'-6\"	—
V14	4	# 4	4'-5\"	—
V15	4	# 4	4'-3\"	—
V16	4	# 4	4'-2\"	—
Concrete Structures		Cu. Yds.	29.0	
Reinforcement Bars		Lbs.	3,350	
Test Pile, Steel HP10x42		Each	2	
Furnishing Steel Piles HP10x42		Foot	280	
Driving Piles		Foot	280	
Metal Shoes		Each	16	
Name Plate		Each	1	
Concrete Cut-off Wall		Cu. Yds.	8.5	
Structure Excavation		Cu. Yds.	188	

**PILE DATA**

Location: Abutments  
 Pile Type and Size: Steel HP 10x42  
 Nominal Required Bearing: 335 kips  
 Factored Resistance Available: 167 kips  
 Estimated Pile Length: 20 ft.  
 No. of Production Piles: 7  $\bullet$  North Abutment  
 7  $\bullet$  South Abutment  
 No. of Test Piles: 1  $\bullet$  North Abutment  
 1  $\bullet$  South Abutment

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

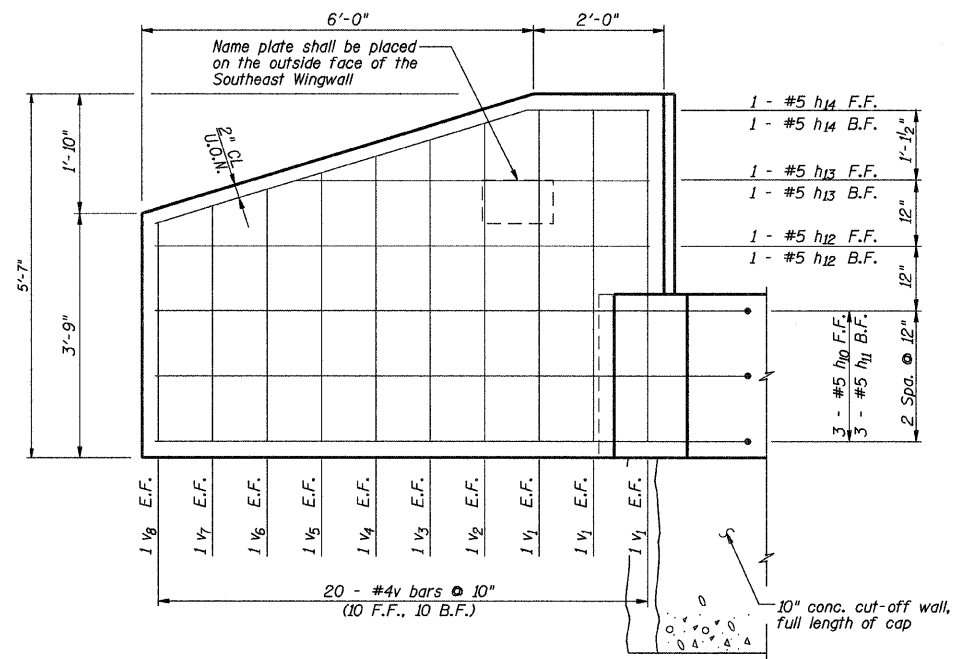
DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	A. Fraenhoffer	NO.	DATE	REVISION	BY

**FRAUENHÖFFER**  
 Fraenhoffer and Associates, P.C. Consulting Engineers  
 3002 Crossing Court Champaign, IL 61822 217-351-6268

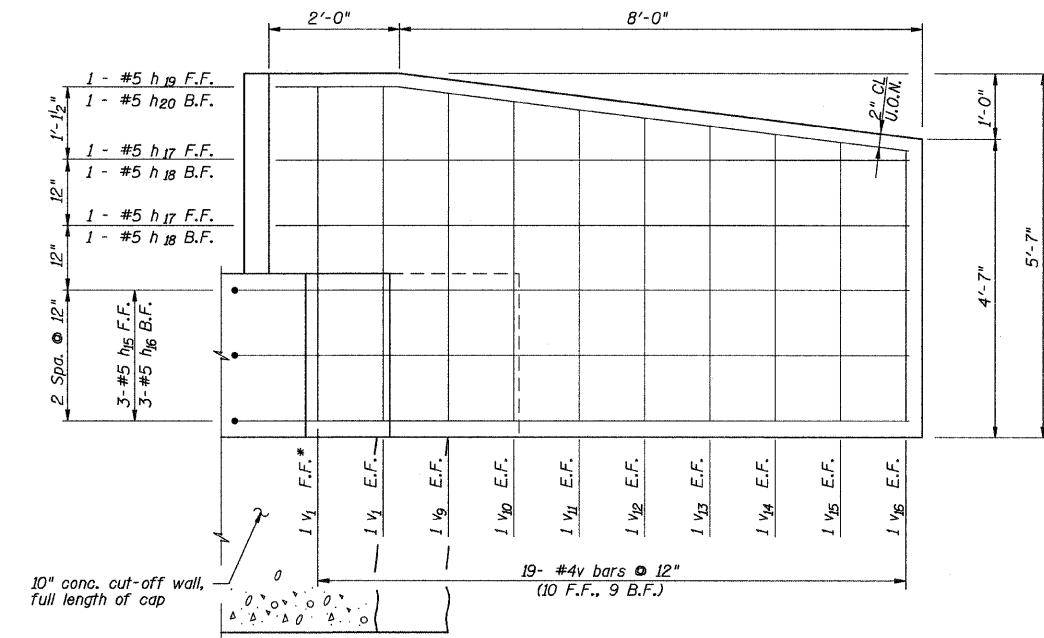
<b>ABUTMENTS (SHEET 1 OF 2)</b>		SHEET	30
CH 48 OVER HORSE CREEK		DWG NO.	85019-abt.dgn
SECTION 85-00221-00-BR		DATE	FEB 2007
KANKAKEE COUNTY		PROJ NO.	85019

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
C.H. 48	*	Kankakee	56	31
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

\*85-00221-00-BR

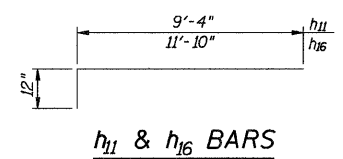


**ELEV. B-B**  
Wingwalls shall be poured after beams are in place.

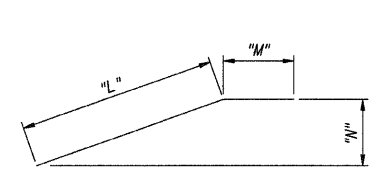


**ELEV. C-C**  
Wingwalls shall be poured after beams are in place.

F.F.\* - Front Face Only  
F.F. - Front Face  
B.F. - Back Face  
E.F. - Each Face  
U.O.N. - Unless otherwise noted

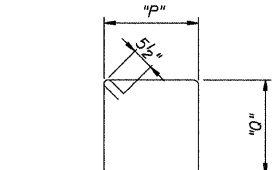


**h<sub>11</sub> & h<sub>16</sub> BARS**



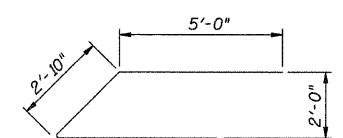
**h<sub>14</sub>, h<sub>19</sub>, & h<sub>20</sub> BARS**

Bar	"L"	"M"	"N"
h <sub>14</sub>	5'-11"	1'-11"	1'-9"
h <sub>19</sub>	7'-10"	1'-10"	12"
h <sub>20</sub>	7'-10"	4"	12"



**s<sub>10</sub>, s<sub>11</sub>, & s<sub>12</sub> BARS**

Bar	"P"	"Q"
s <sub>10</sub>	2'-2"	2'-2"
s <sub>11</sub>	2'-4"	2'-2"
s <sub>12</sub>	3'-1"	2'-2"



**BAR U<sub>10</sub>**

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	A. Fraenhoffer	NO.	DATE	REVISION	BY

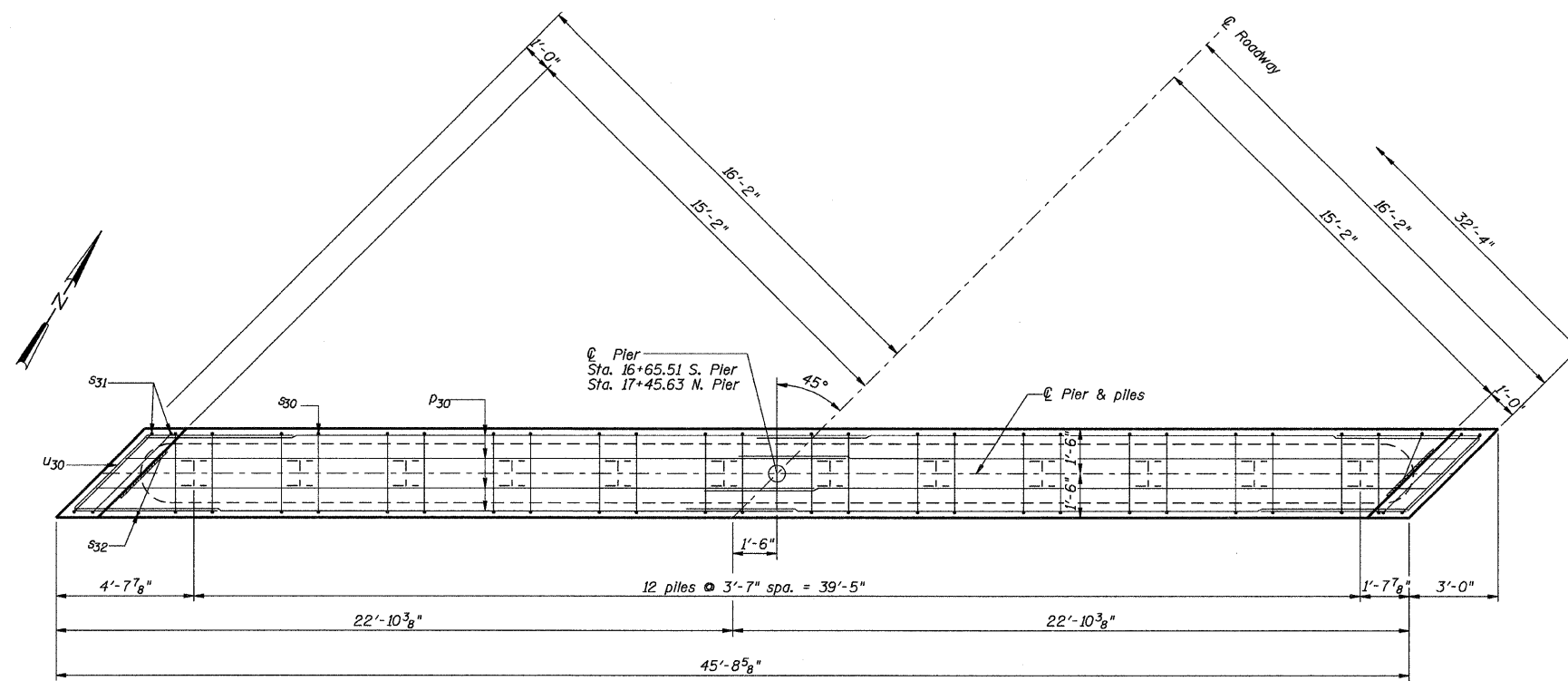
**FRAUENHÖFFER**  
Frauenhoffer and Associates, P.C. Consulting Engineers  
3002 Crossing Court Champaign, IL 61822 217-351-6268

<b>ABUTMENTS (SHEET 2 OF 2)</b>		SHEET 31
CH 48 OVER HORSE CREEK SECTION 85-00221-00-BR KANKAKEE COUNTY		DWG NO. 85019-abt.dgn DATE DEC 2007 PROJ NO. 85019

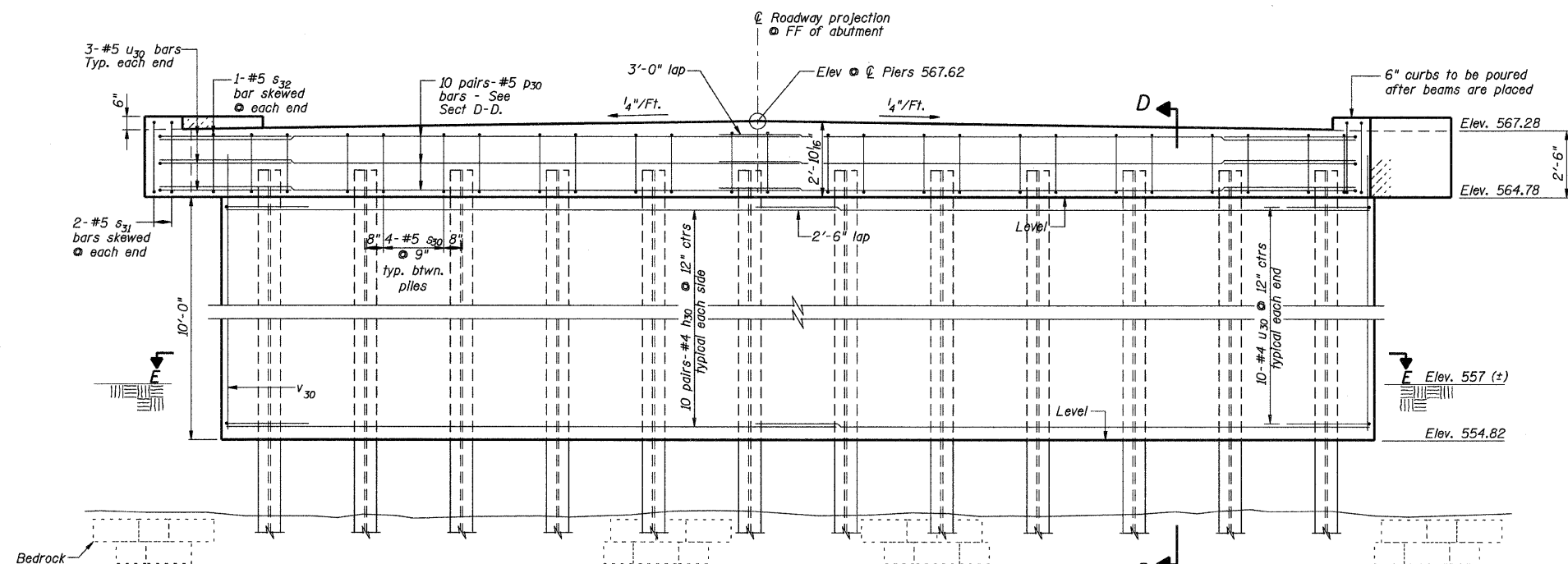
CONTRACT #87374

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 48	*	Kankakee	56	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

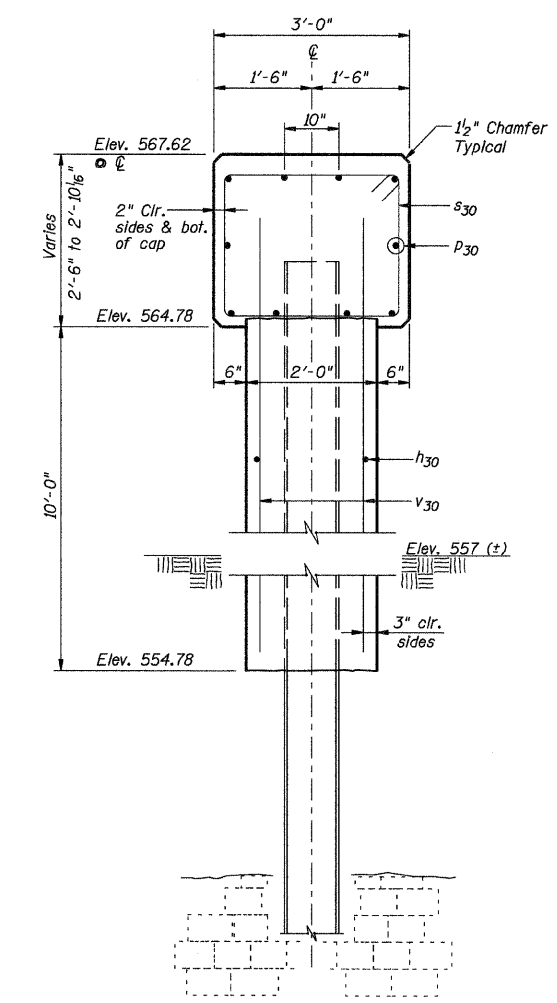
#85-00221-00-BR



**PLAN**  
(Symmetrical about  $\varnothing$  Pier)



**ELEVATION**  
Front Projection  
(Symmetrical about  $\varnothing$  Pier)



**SECTION D-D**  
(Perpendicular to  $\varnothing$  of Pier)

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	J.A. Fraunhoffer	NO.	DATE	REVISION	BY

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3002 Crossing Court Champaign, IL 61822 217-351-6268

**PIERS (SHEET 1 OF 2)**  
CH 48 OVER HORSE CREEK  
SECTION 85-00221-00-BR  
KANKAKEE COUNTY

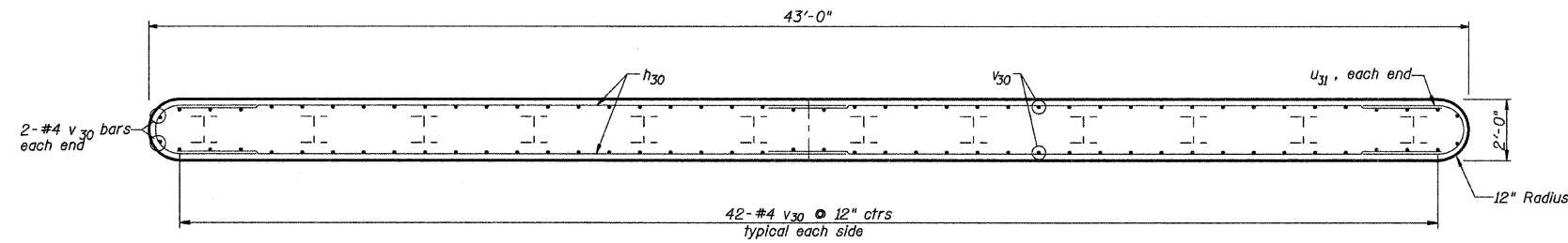
SHEET	32
DWG NO.	85019-PIER.dwg
DATE	DEC 2007
PROJ NO.	85019



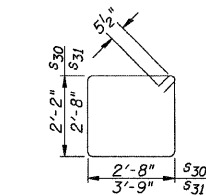
CONTRACT #87374

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
C.H. 48	*	Kankakee	56	33
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

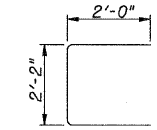
\*85-00221-00-BR



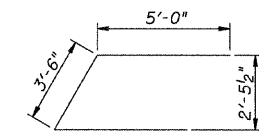
SECTION E-E



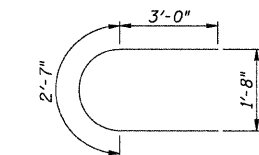
BARS S30 & S31



BAR S32



BAR U30



BAR U31

BILL OF MATERIAL - 2 PIERS

Bar	No.	Size	Length	Shape
h30	80	# 4	21'-9"	—
p30	40	# 5	23'-10"	—
s30	92	# 5	10'-7"	U
s31	8	# 5	13'-9"	U
s32	4	# 5	6'-2"	U
u30	12	# 5	13'-6"	U
u31	40	# 5	8'-7"	U
v30	176	# 4	11'-4"	—
Concrete Structures		Cu. Yds.	90.5	
Reinforcement Bars		Lbs.	5,180	
Test Pile, Steel HP10x42		Each	2	
Furnishing Steel Piles HP10x42		Foot	440	
Driving Piles		Foot	440	
Metal Shoes		Each	24	
Structure Excavation		Cu. Yds.	52	

PILE DATA

Location: Piers

Pile Type and Size: Steel HP 10x42

Nominal Required Bearing: 335 kips

Factored Resistance Available: 167 kips

Estimated Pile Length: 20 ft.

No. of Production Piles: 11 @ North Pier  
11 @ South Pier

No. of Test Piles: 1 @ North Pier  
1 @ South Pier

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	A.Frauenhoffer	NO.	DATE	REVISION	BY

**FRAUENHOFFER**

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3002 Crossing Court Champaign, IL 61822 217-361-6268

PIERS (SHEET 2 OF 2)

CH 48 OVER HORSE CREEK  
SECTION 85-00221-00-BR  
KANKAKEE COUNTY

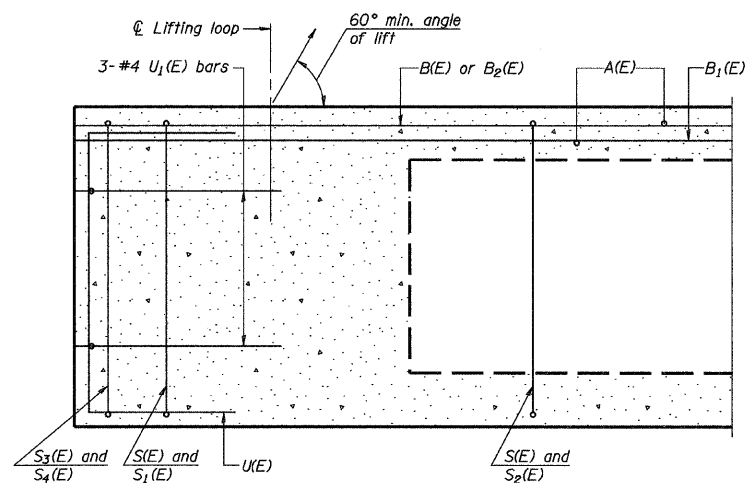
SHEET 33

DWG NO. 85019-PIER.dwg

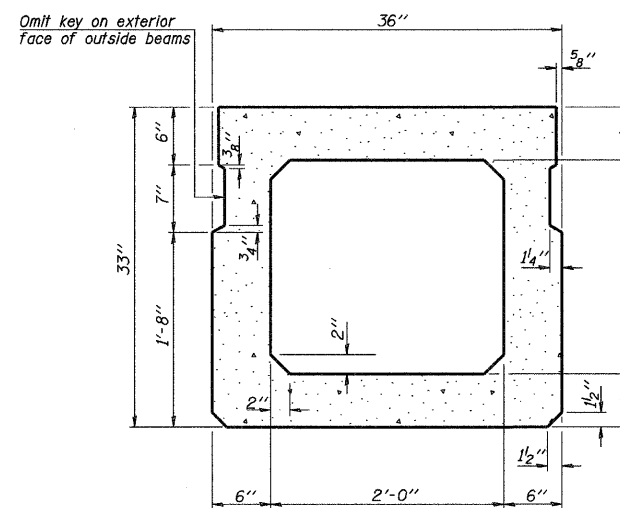
DATE FEB 2007

PROJ NO. 85019

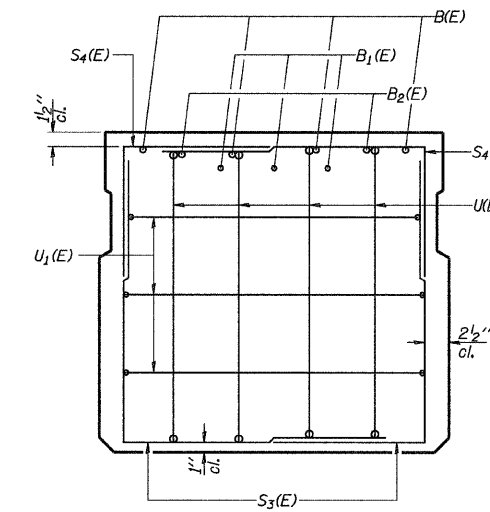
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 48	*	Kankakee	56	34
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-



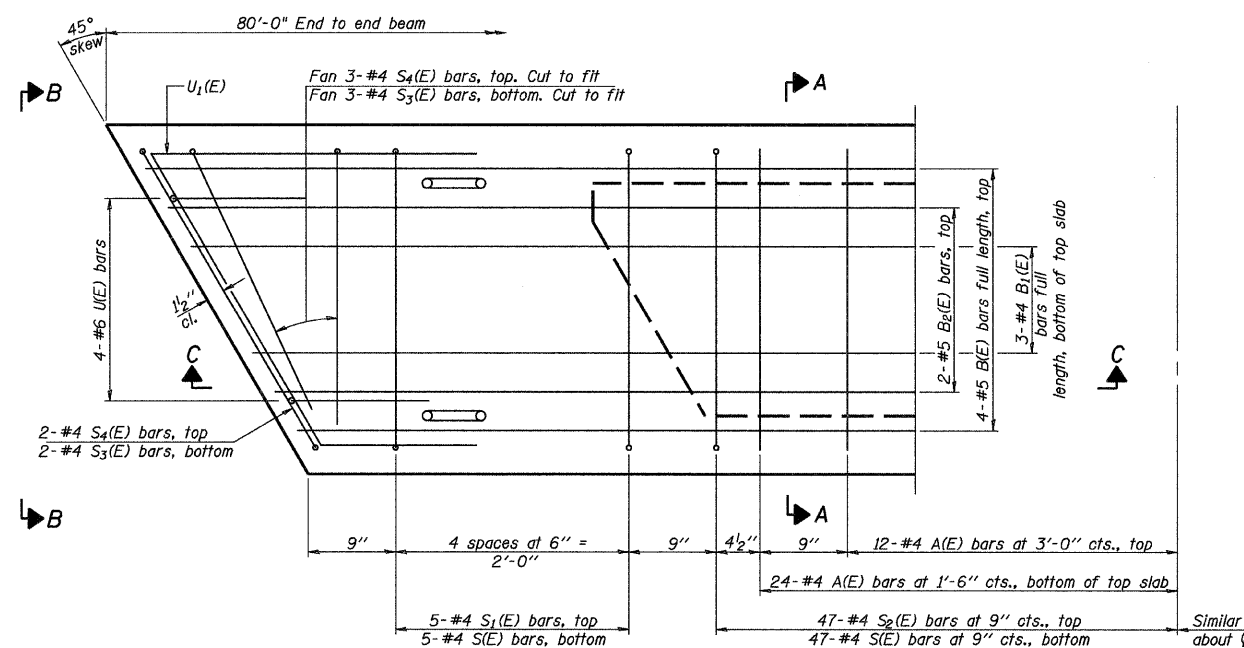
SECTION C-C



SECTION A-A  
(Showing dimensions)

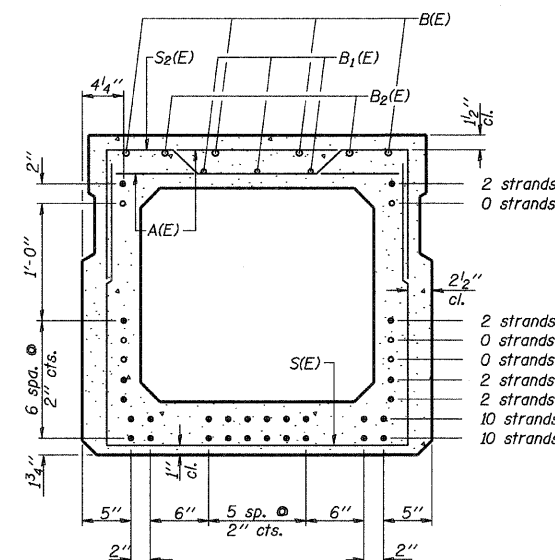


VIEW B-B



PLAN VIEW

Note: Spacing of S1(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

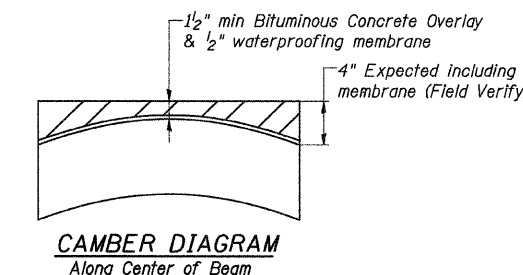


STRAND PATTERN 28SS:  
10 strands @ 1 3/4" up, 10 strands @ 3 3/4" up,  
2 strands @ 5 3/4" up, 2 strands @ 7 3/4" up,  
2 strands @ 13 3/4" up, 2 strands @ 27 3/4" up

SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



CAMBER DIAGRAM  
Along Center of Beam

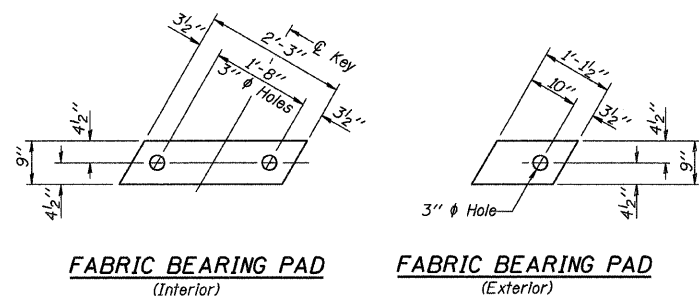
BAR LIST  
ONE BEAM ONLY  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	72	#4	2'-7"	—
B(E)	20	#5	18'-0"	—
B1(E)	15	#4	18'-0"	—
B2(E)	4	#5	16'-0"	—
S(E)	104	#4	7'-5"	—
S1(E)	10	#4	6'-3"	—
S2(E)	94	#4	6'-6"	—
S3(E)	10	#4	4'-10"	—
S4(E)	10	#4	4'-3"	—
U(E)	8	#6	5'-0"	—
U1(E)	6	#4	9'-6"	—

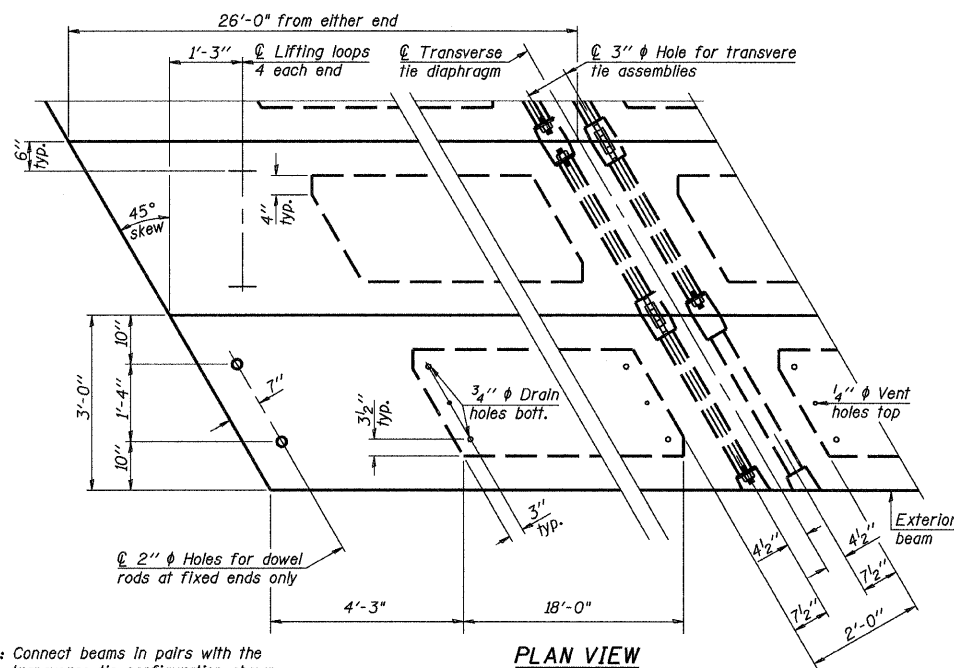
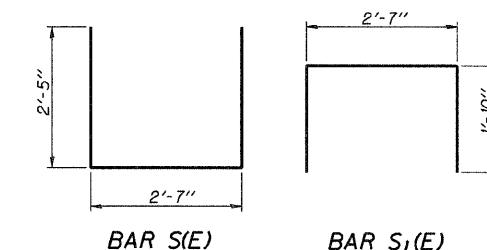
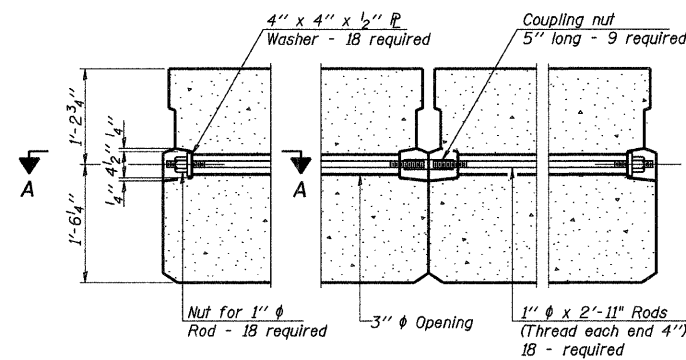
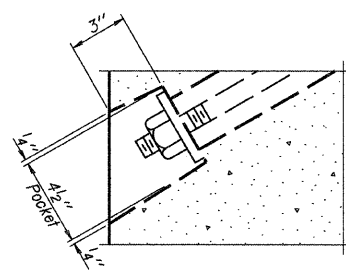
Note: See sheet 2 of 2 for additional details and Bill of Material.

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	J.A. Frauenhoffer	NO.	DATE	REVISION	BY

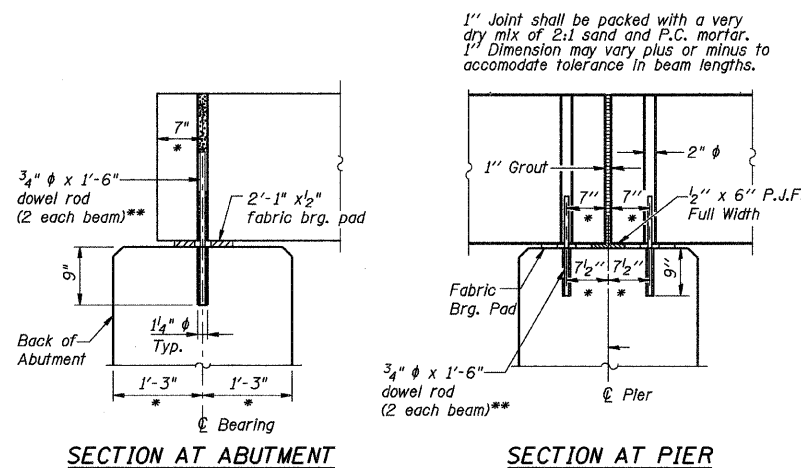
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
CH 48	*	Kankakee	56	35
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-



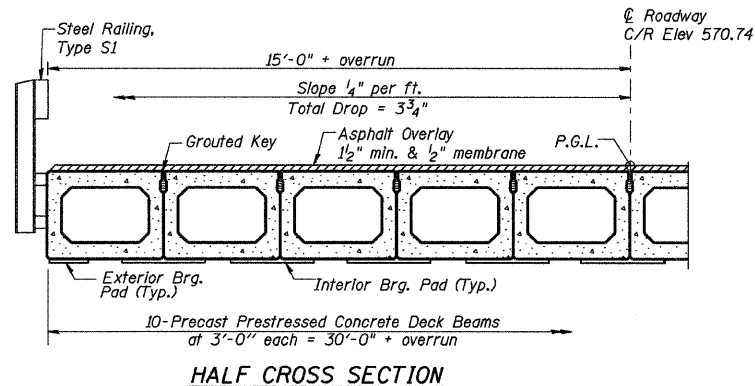
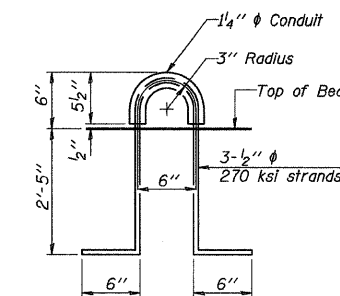
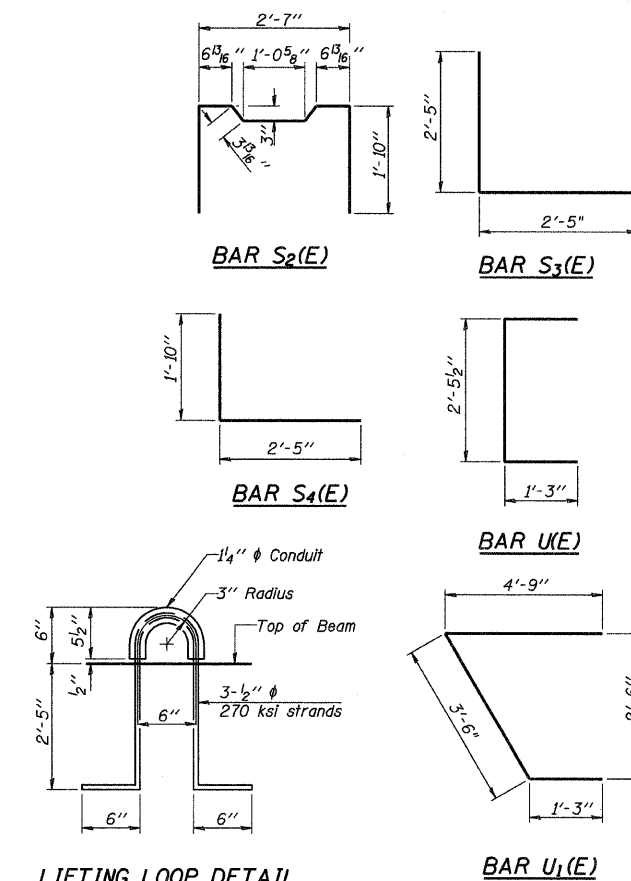
**FIXED**  
 Note: Omit holes when using expansion bearings.



Note: Connect beams in pairs with the transverse tie configuration shown.



\* Perpendicular to C of abutment or pier  
 \*\* Dowel rods to be grouted after beams are in place and prior to grouting the shear keys



**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
 Reinforcement bars shall conform to ASTM A 706 (IL MOD), Grade 60. (See Special Provisions)  
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
 A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.  
 Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
 Compressive strength of prestressed concrete, f'c, shall be 6000 psi.  
 Compressive strength of prestressed concrete at release, f'cl, shall be 5000 psi.

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	7200
---	---------	------

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	J.A. Fraenhoffer	NO.	DATE	REVISION	BY

**FRAUENHOFFER**

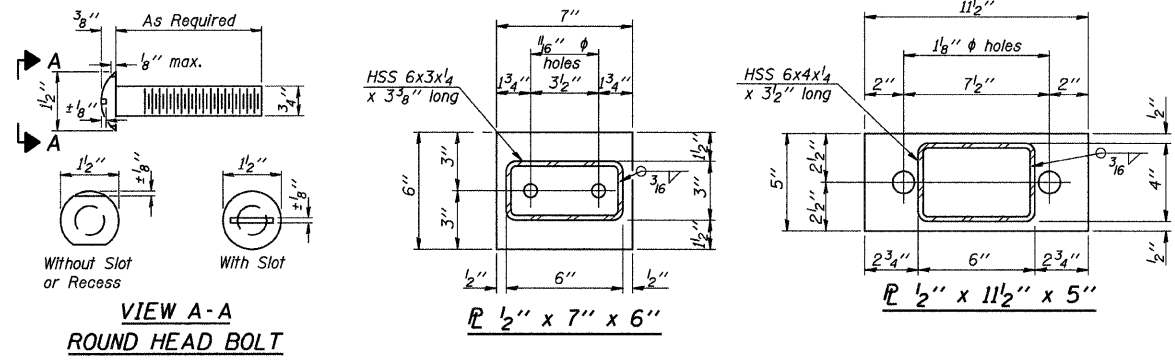
Frauenhoffer and Associates, P.C. Consulting Engineers  
 3002 Crossing Court Champaign, Il. 61822 217-351-6268

**SUPERSTRUCTURE DETAILS (SHEET 2 OF 2)**

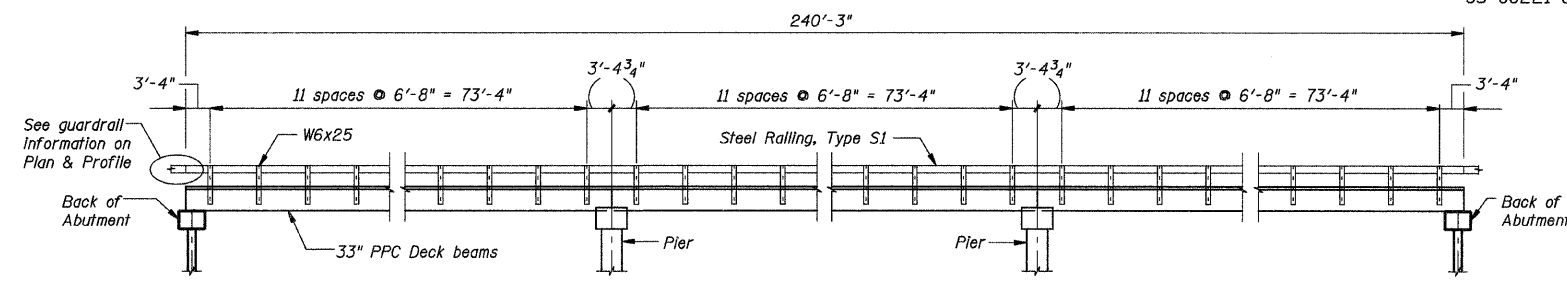
CH 48 OVER HORSE CREEK  
 SECTION 85-00221-00-BR  
 KANKAKEE COUNTY

SHEET	35
DWG NO.	85019-sup.dgn
DATE	DEC 2007
PROJ NO.	85019

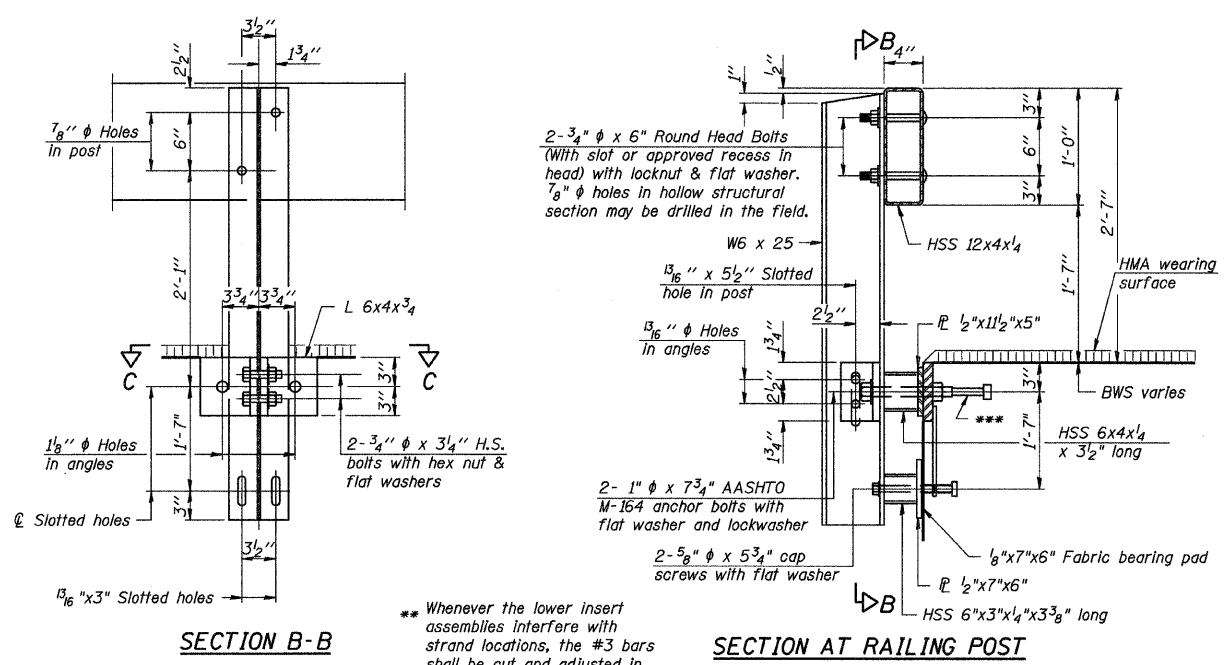
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET
CH 48	*	Kankakee	56	36
FED. ROAD DIST. NO. 7		ILL. DIST. NO.	FED. AID PROJECT	
*85-00221-00-BR				



VIEW A-A  
ROUND HEAD BOLT



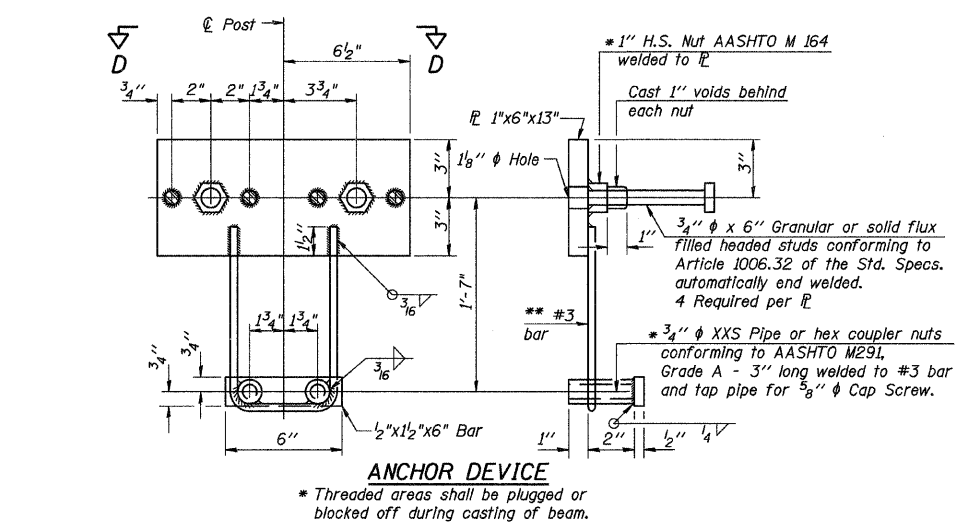
STEEL RAILING ELEVATION



SECTION B-B

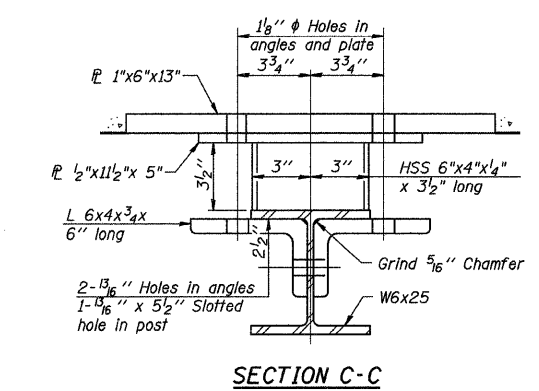
SECTION AT RAILING POST

Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2\"/>

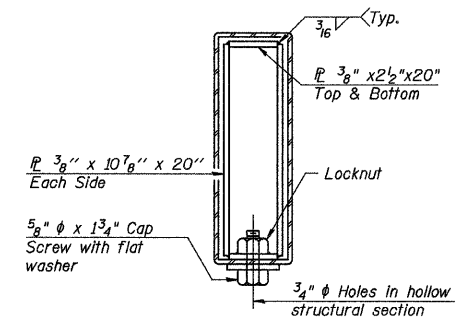


ANCHOR DEVICE

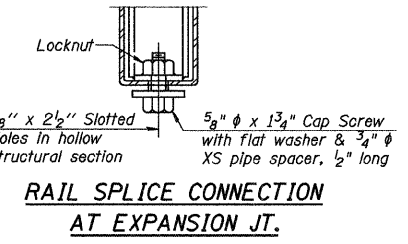
Notes:  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
For multi-span bridges, sufficient 1/4\"/>



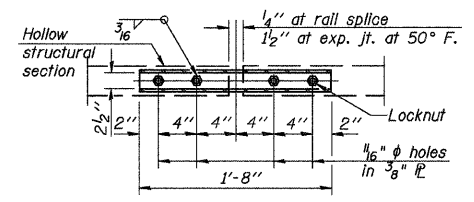
SECTION C-C



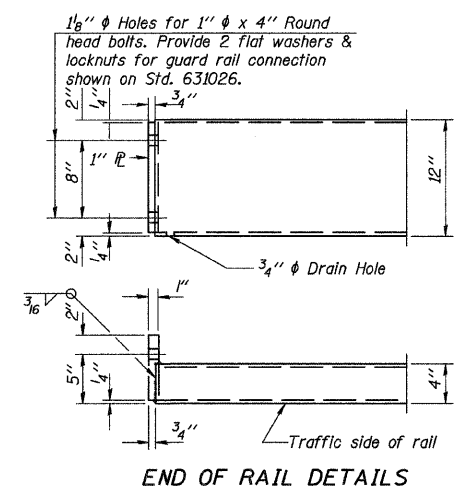
SECTIONS AT RAIL SPLICE



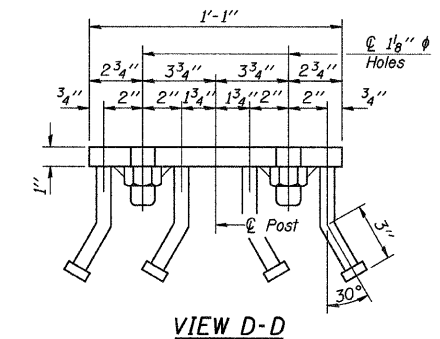
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE TYPICAL



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S1	Foot	48!

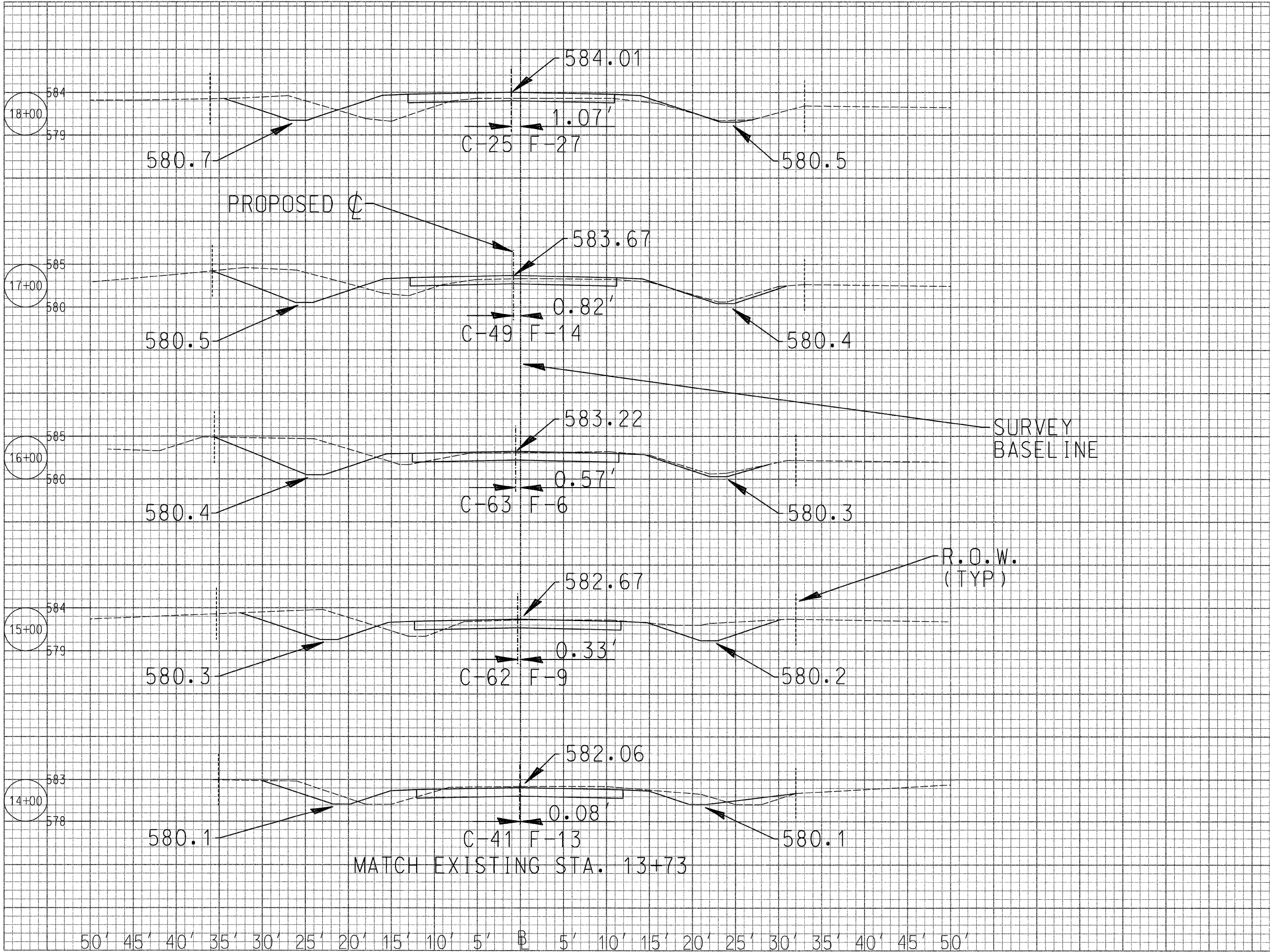
R-23A 11-1-06 (10'-9\"/>

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.R. Wolf				
APVD	J.A. Fraenhoffer	NO.	DATE	REVISION	BY

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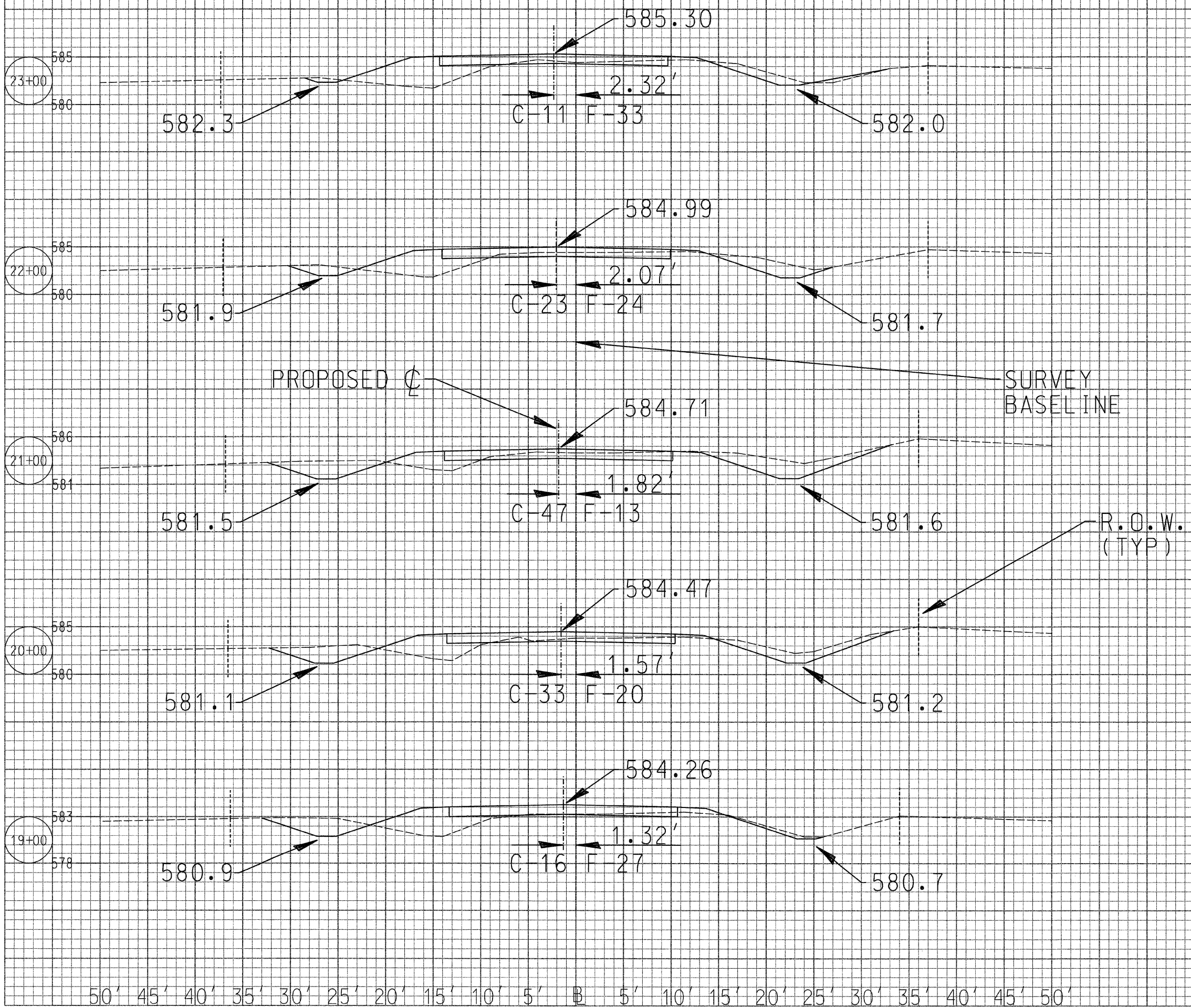
STEEL RAILING, TYPE S1	SHEET 36
CH 48 OVER HORSE CREEK	DWG NO. 85019-S1.dgn
SECTION 85-00221-00-BR	DATE DEC 2007
KANKAKEE COUNTY	PROJ NO. 85019

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	37
CONTRACT NO. 87374				
* 85-00221-00-BR				



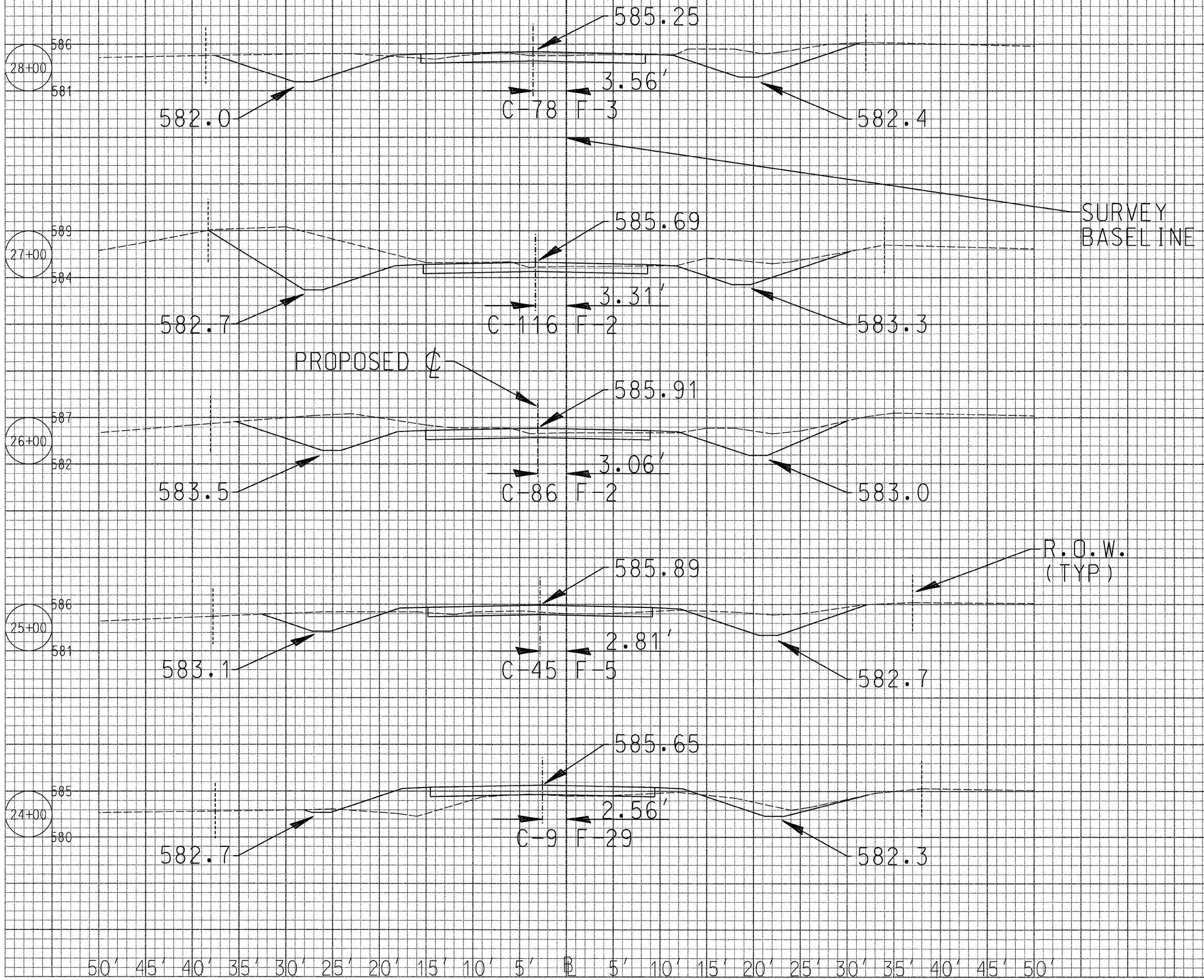
50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	38
CONTRACT NO.		87374		
		* 85-00221-00-BR		



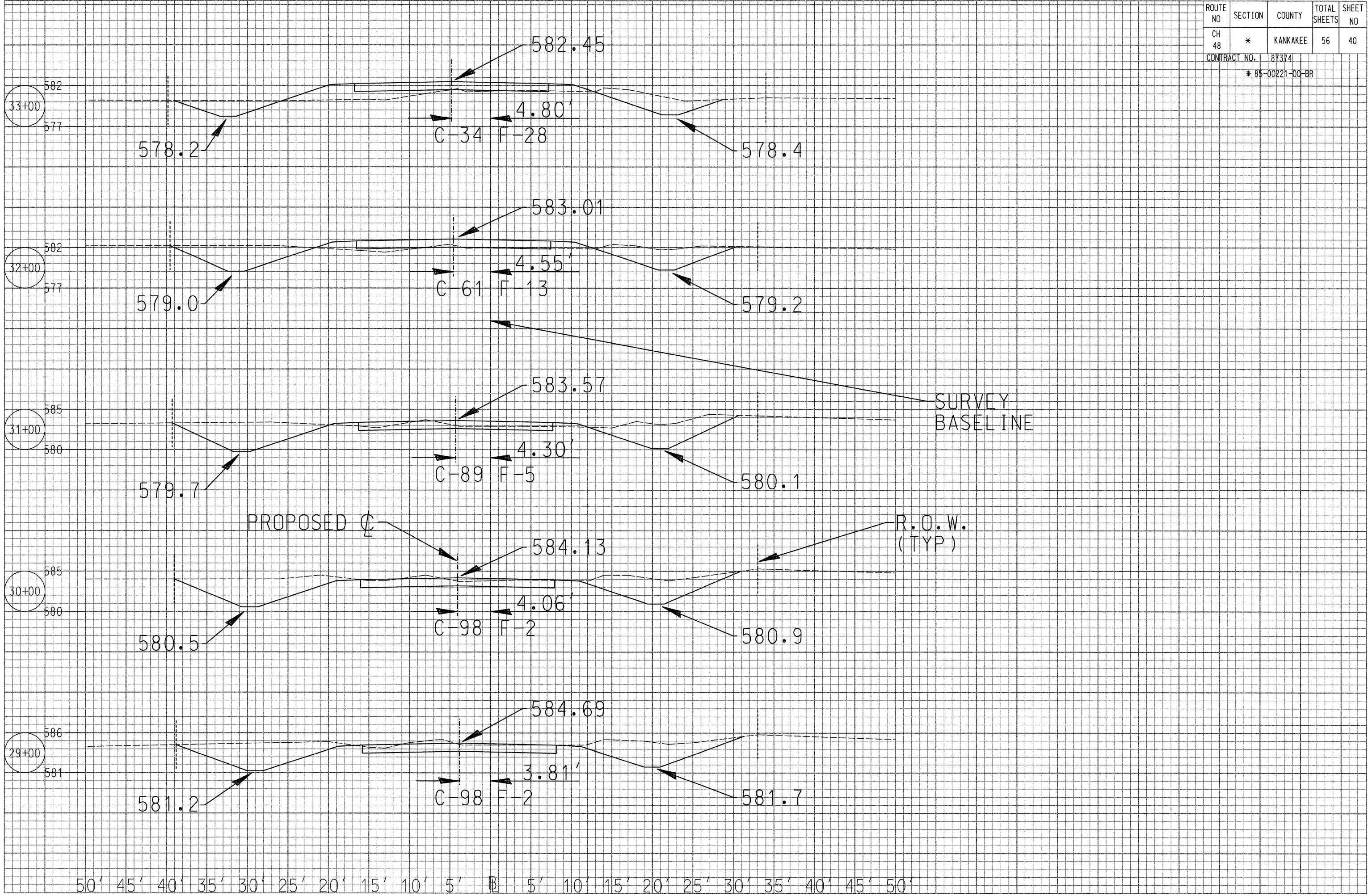
50' 45' 40' 35' 30' 25' 20' 15' 10' 5' B 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	39
CONTRACT NO. 87374			* 85-00221-00-BR	



50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

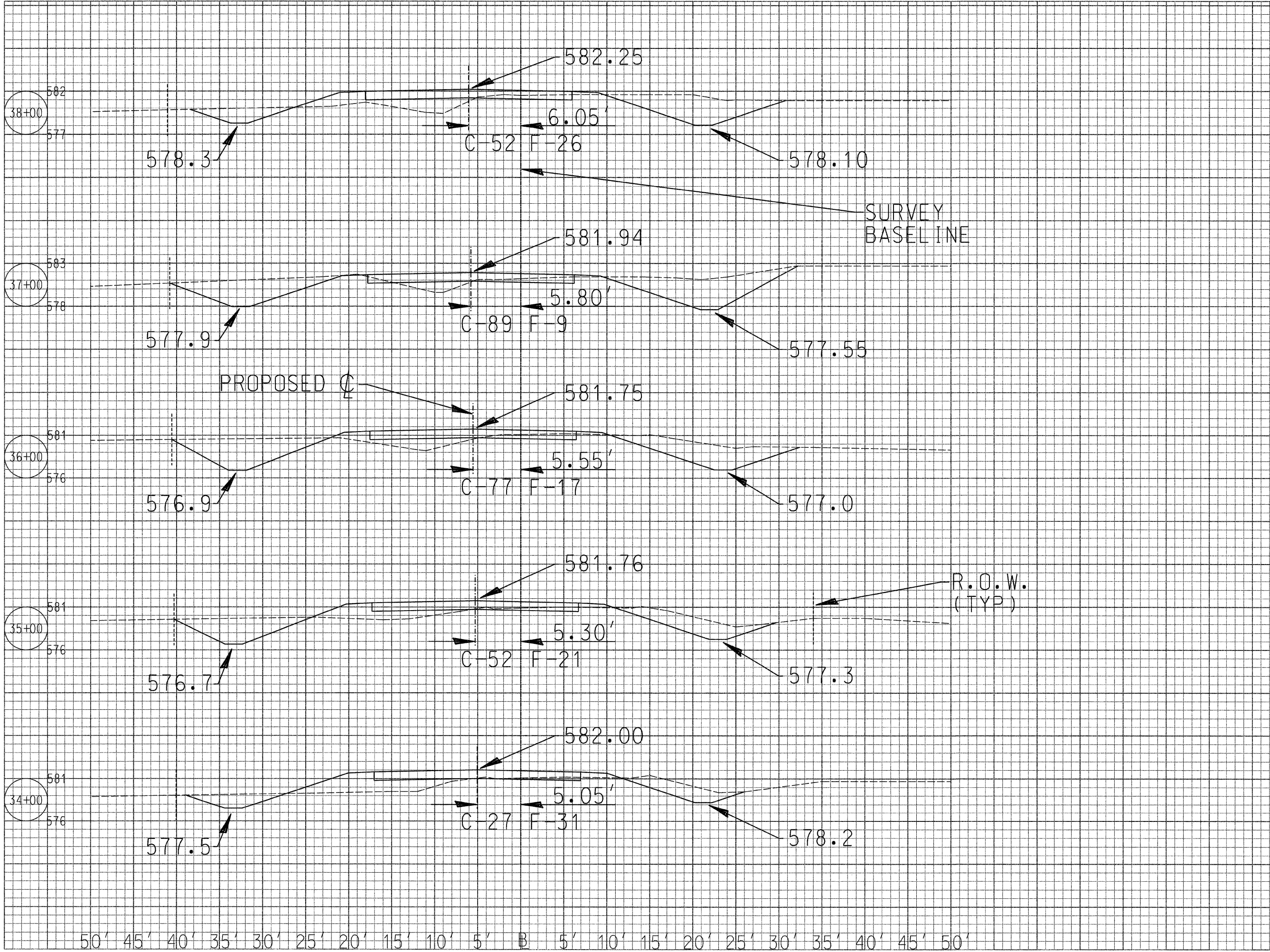
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	40
CONTRACT NO. 87374				
* 85-00221-00-BR				



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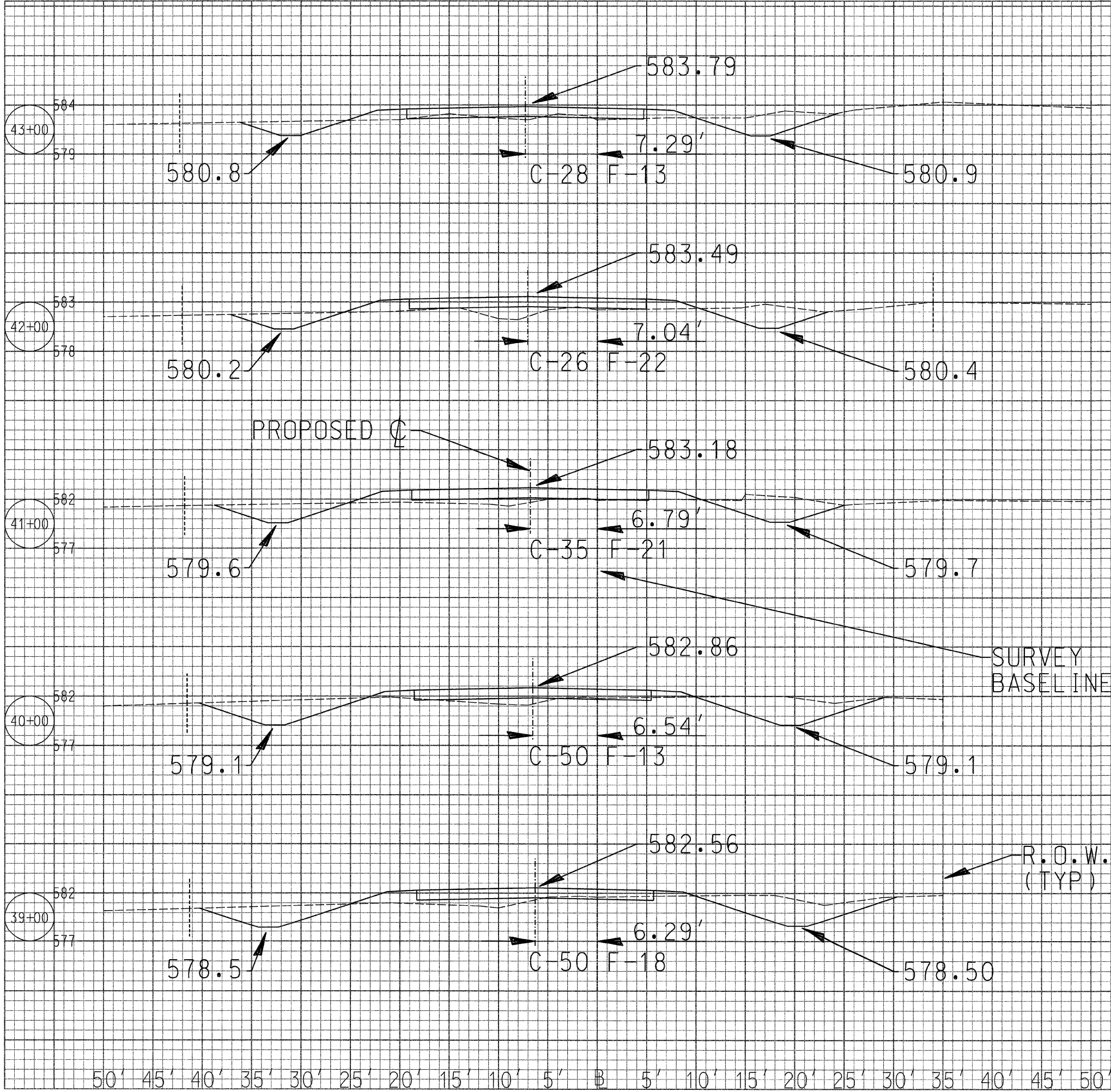


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	41
CONTRACT NO. 87374				
* 85-00221-00-BR				

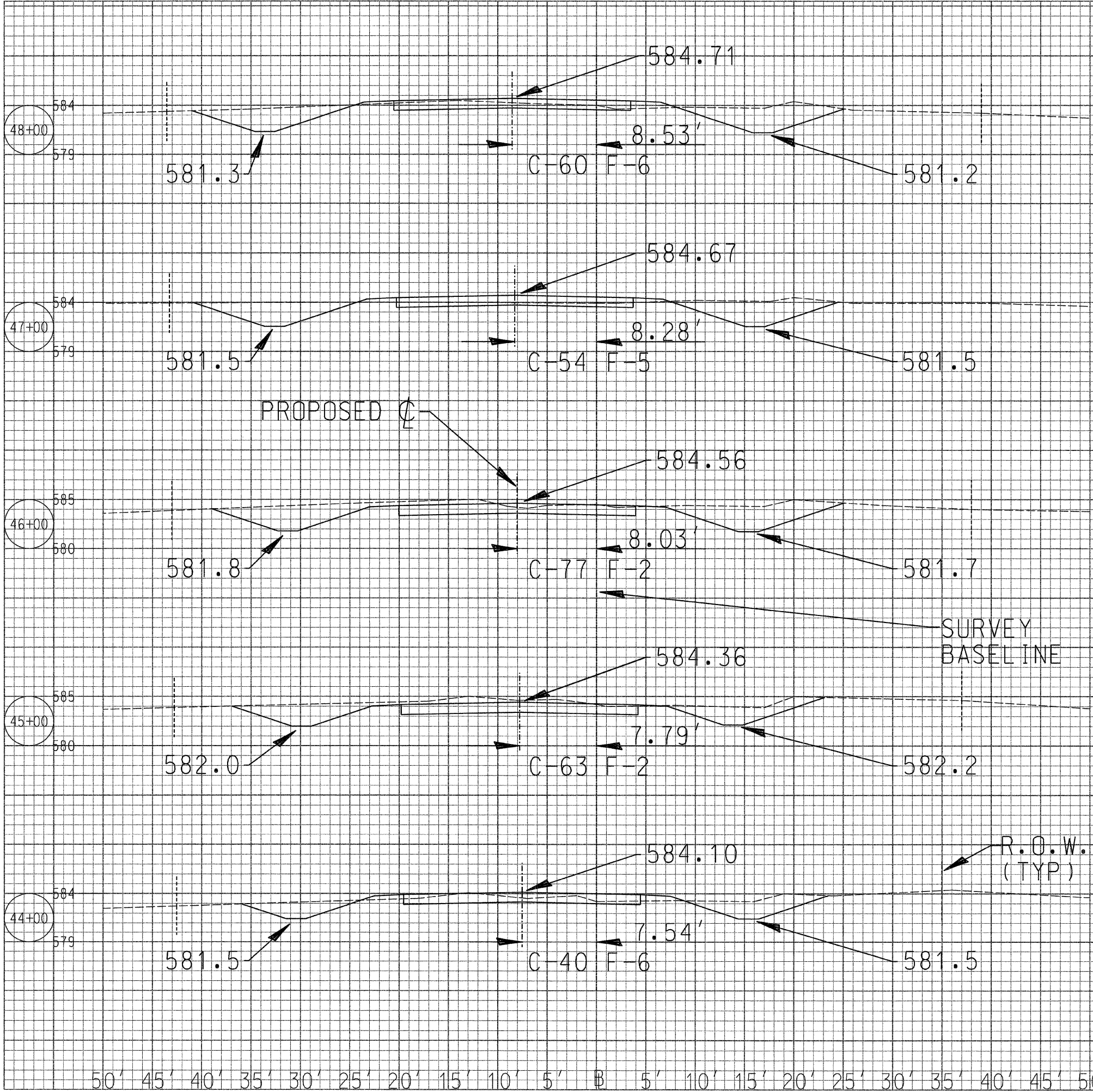


50' 45' 40' 35' 30' 25' 20' 15' 10' 5' B 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

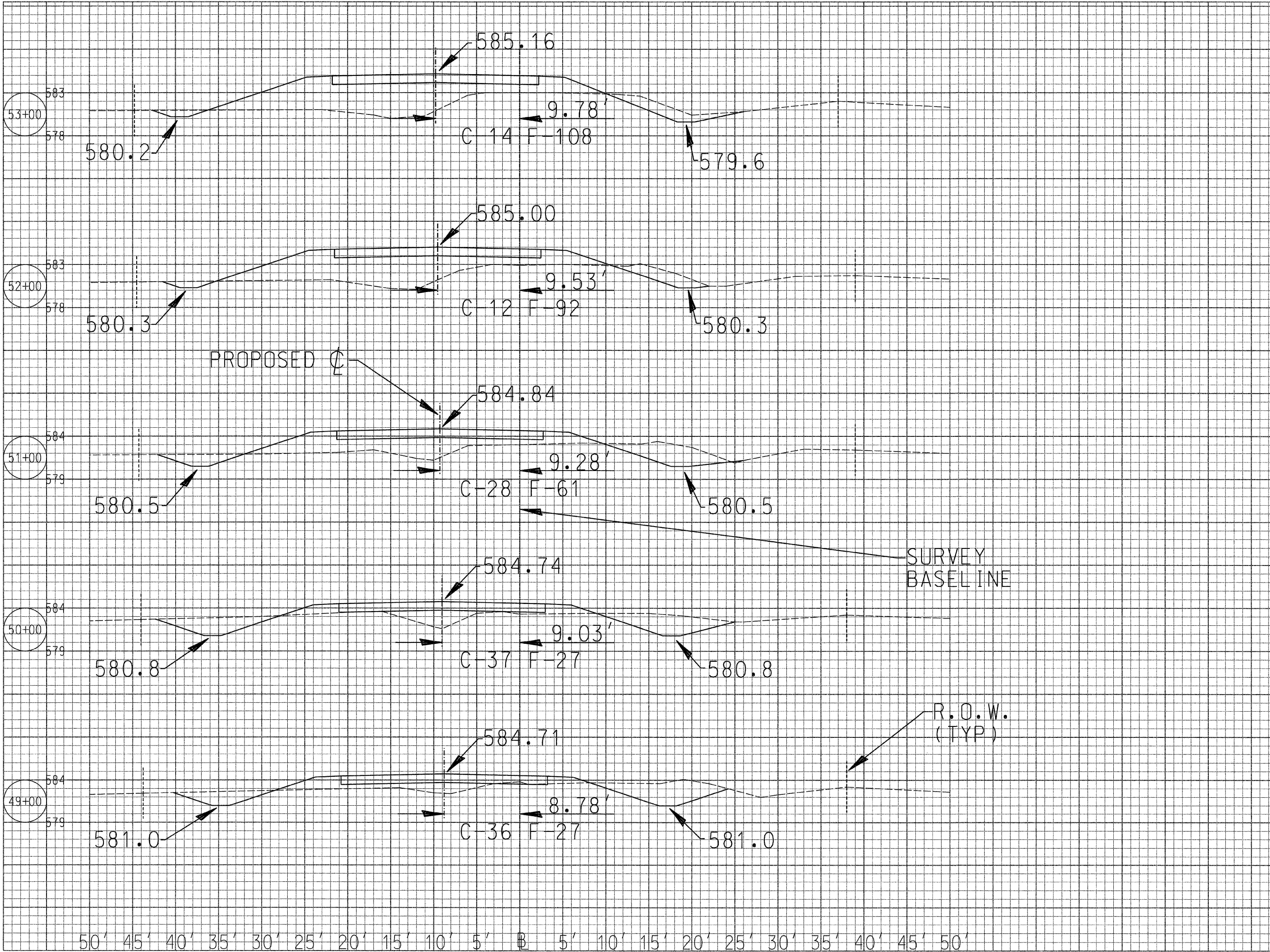
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	42
CONTRACT NO. 87374				
* 85-00221-00-BR				



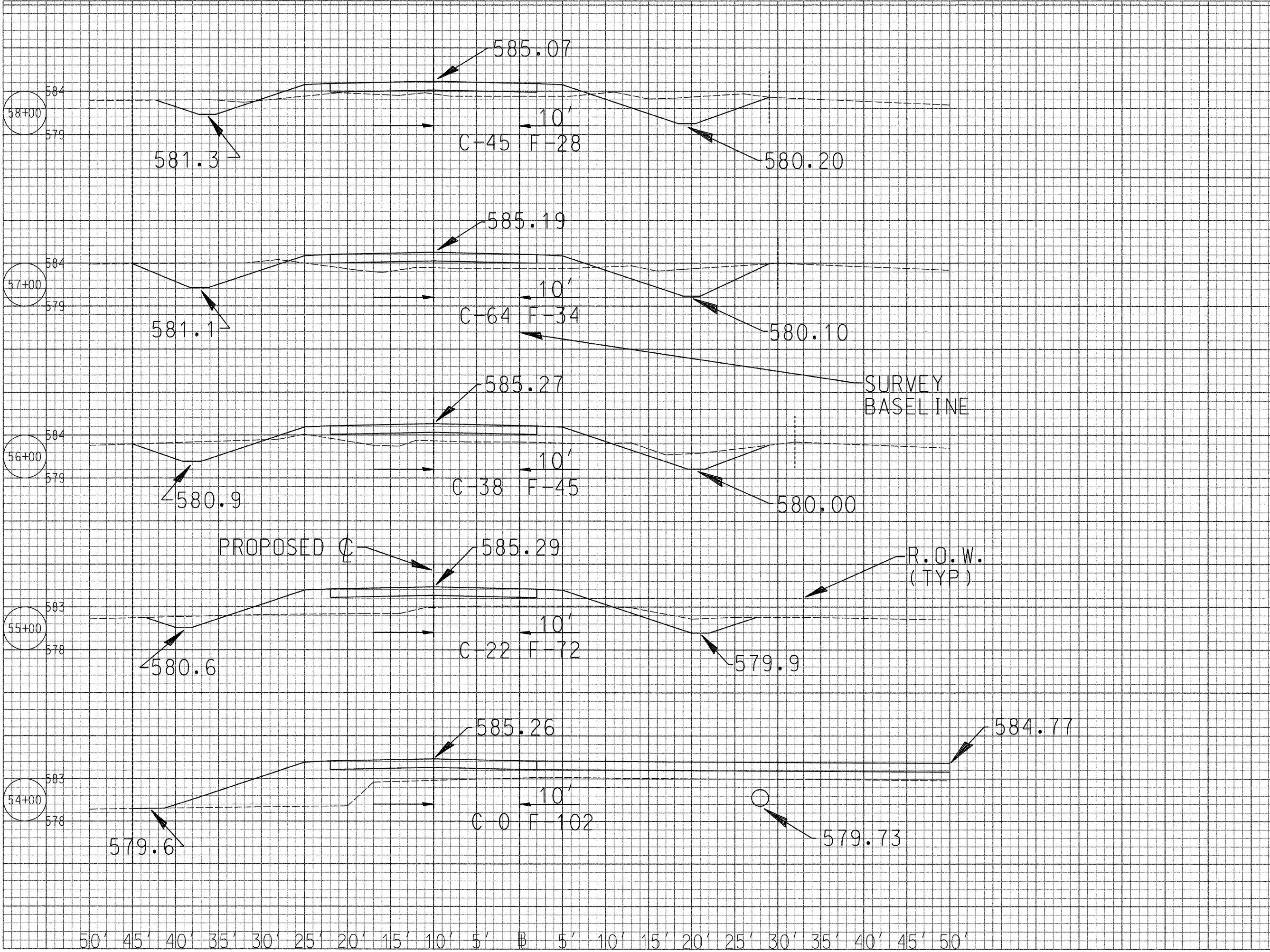
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	43
CONTRACT NO. 87374				
* 85-00221-00-BR				



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	44
CONTRACT NO. 187374				
* 85-00221-00-BR				

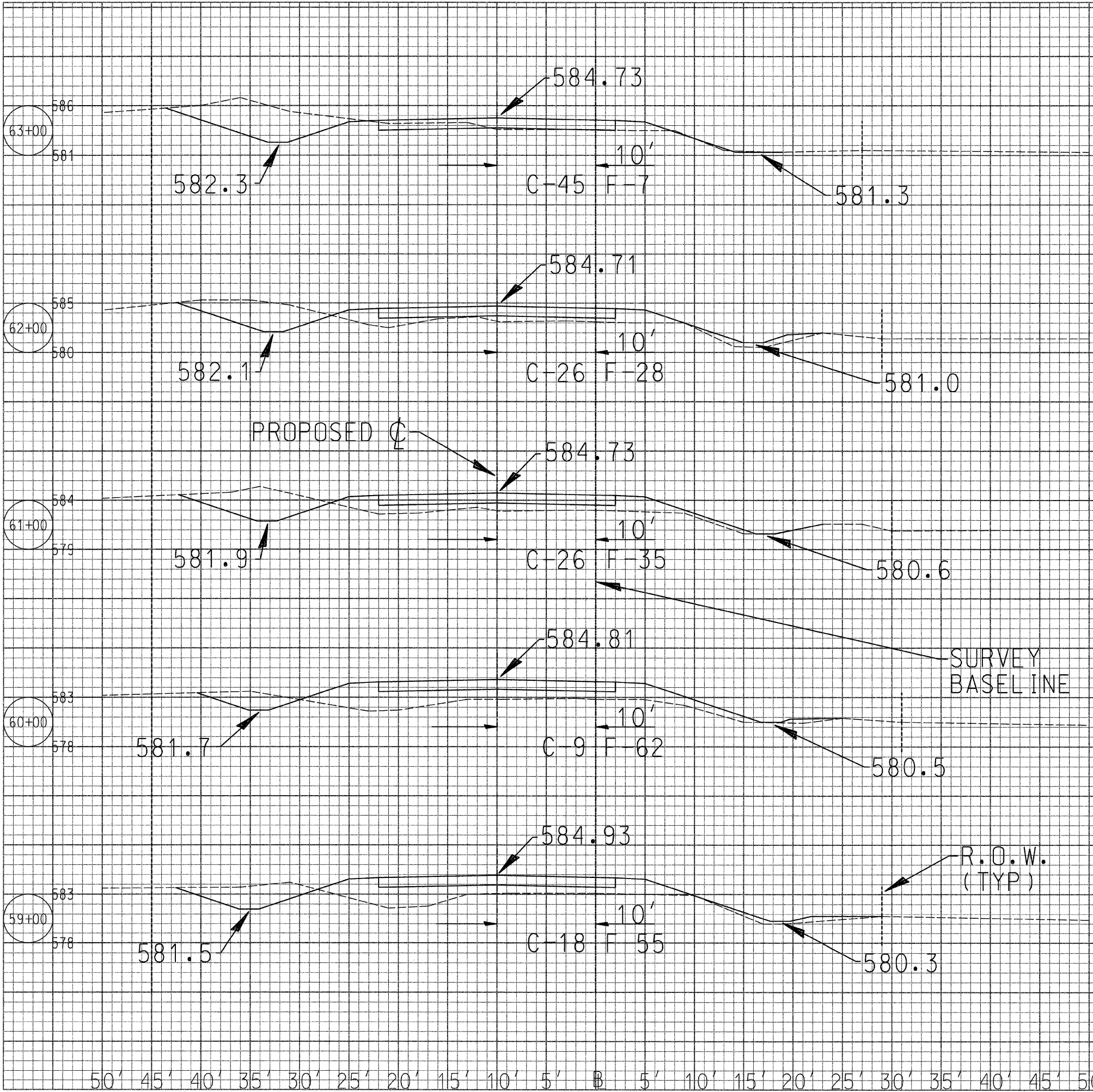


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	45
CONTRACT NO. 187374				
* 85-00221-00-BR				

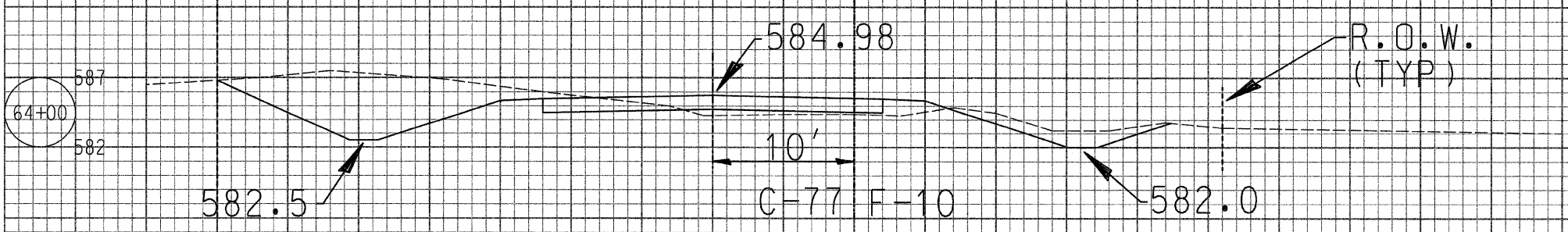
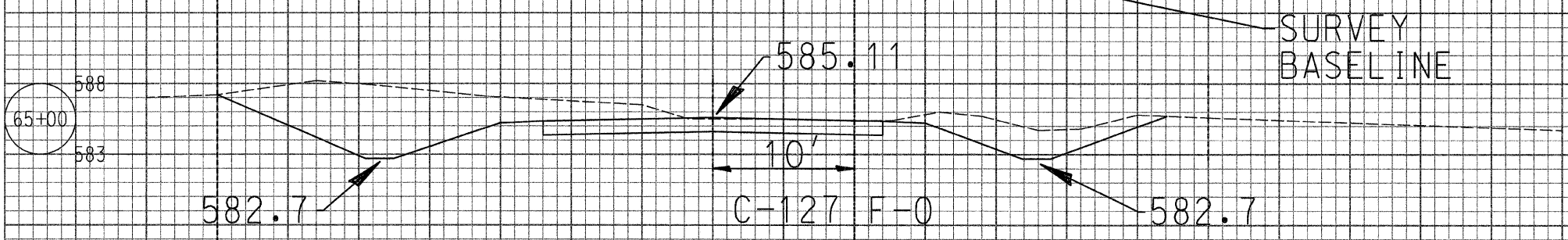
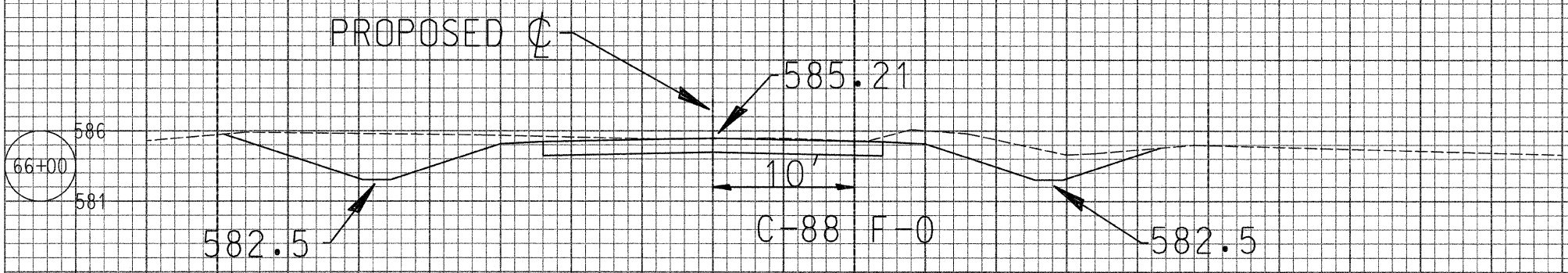
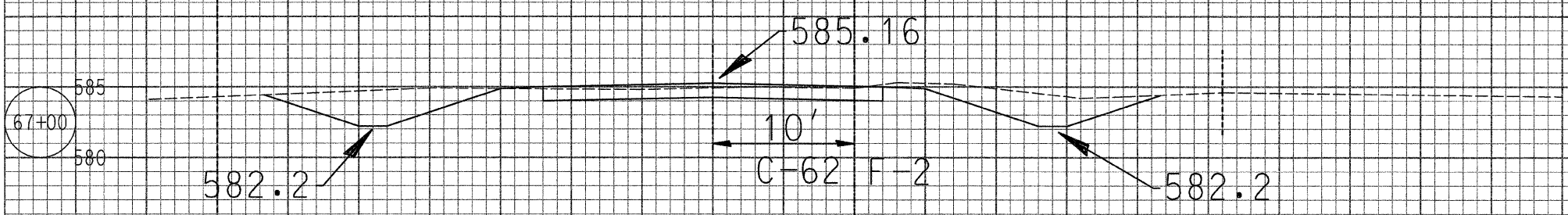
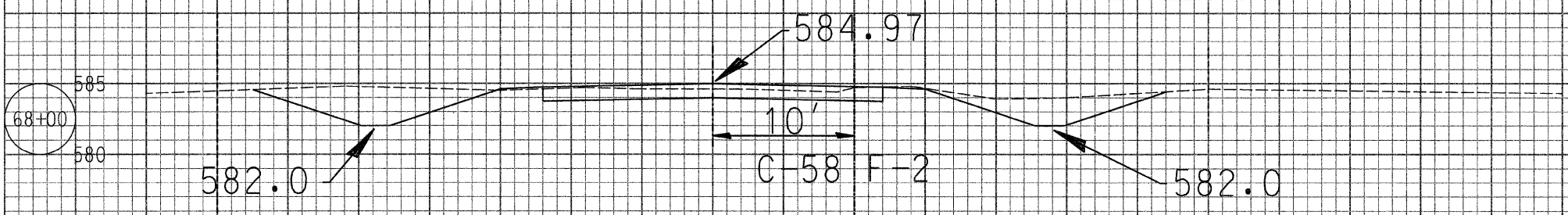


50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 0' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	46
CONTRACT NO. 1 87374				
* 85-00221-00-BR				

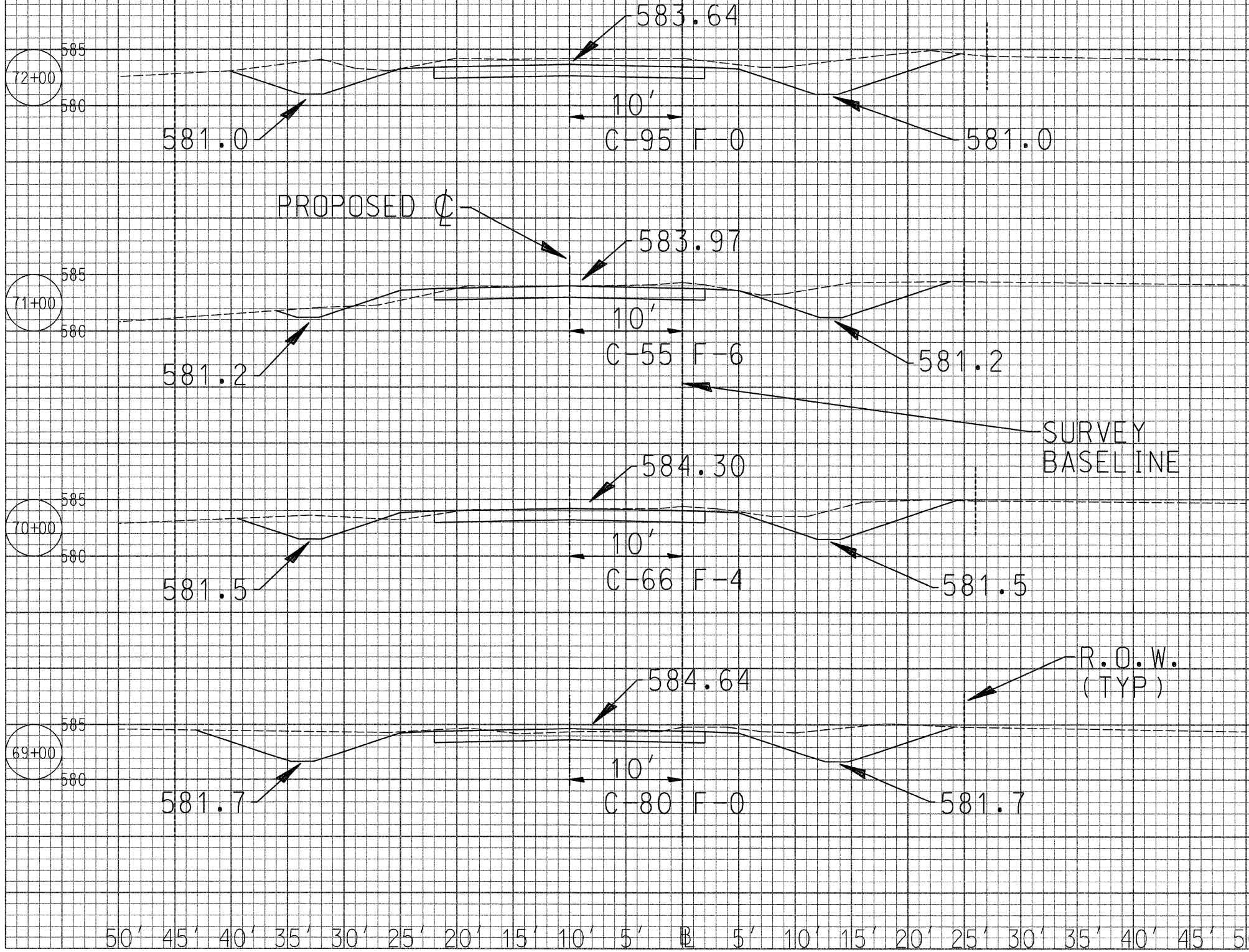


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	47
CONTRACT NO. 187374				
* 85-00221-00-BR				



50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 0' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

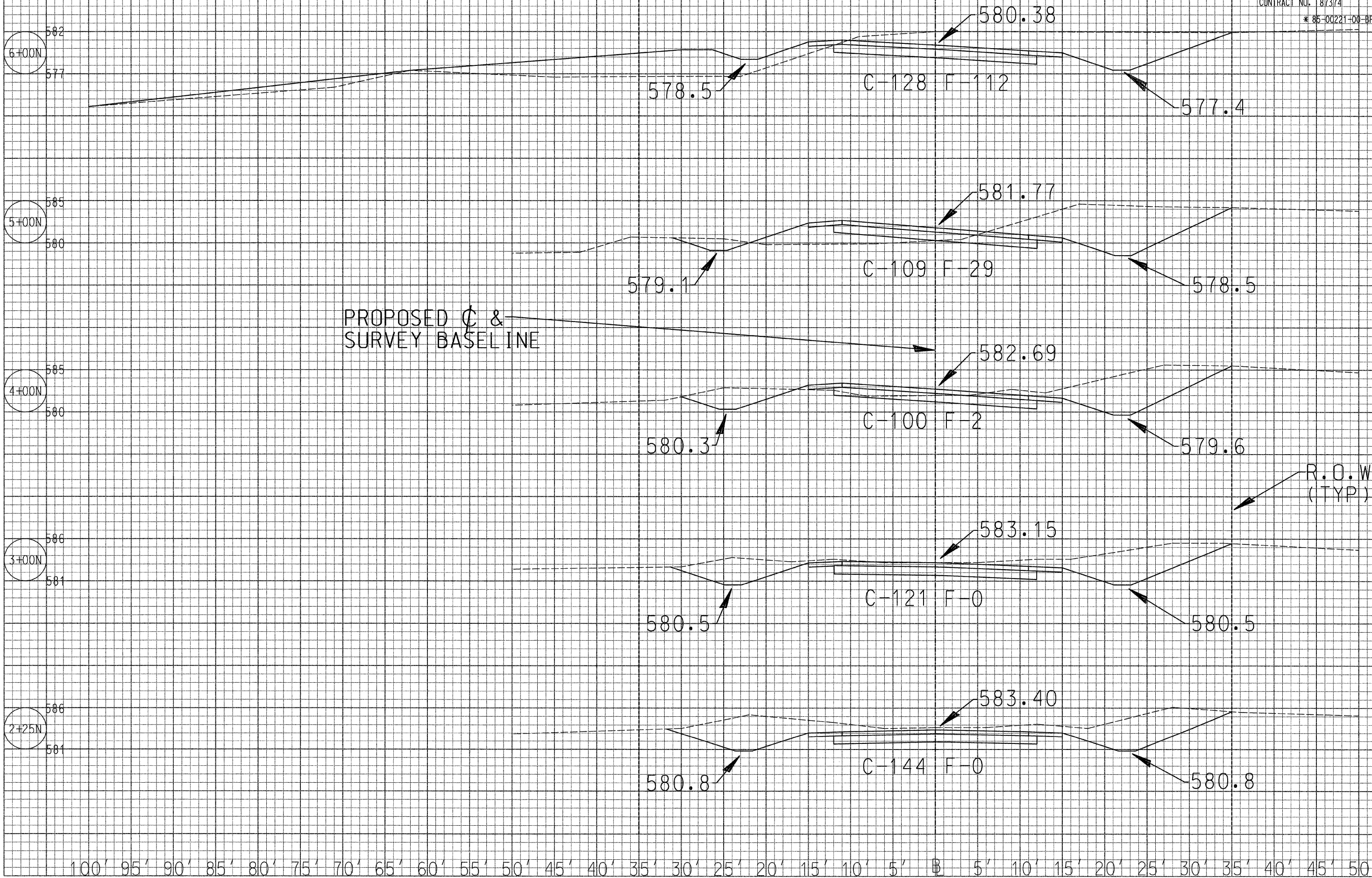
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	48
CONTRACT NO. 87374				
* 85-00221-00-BR				



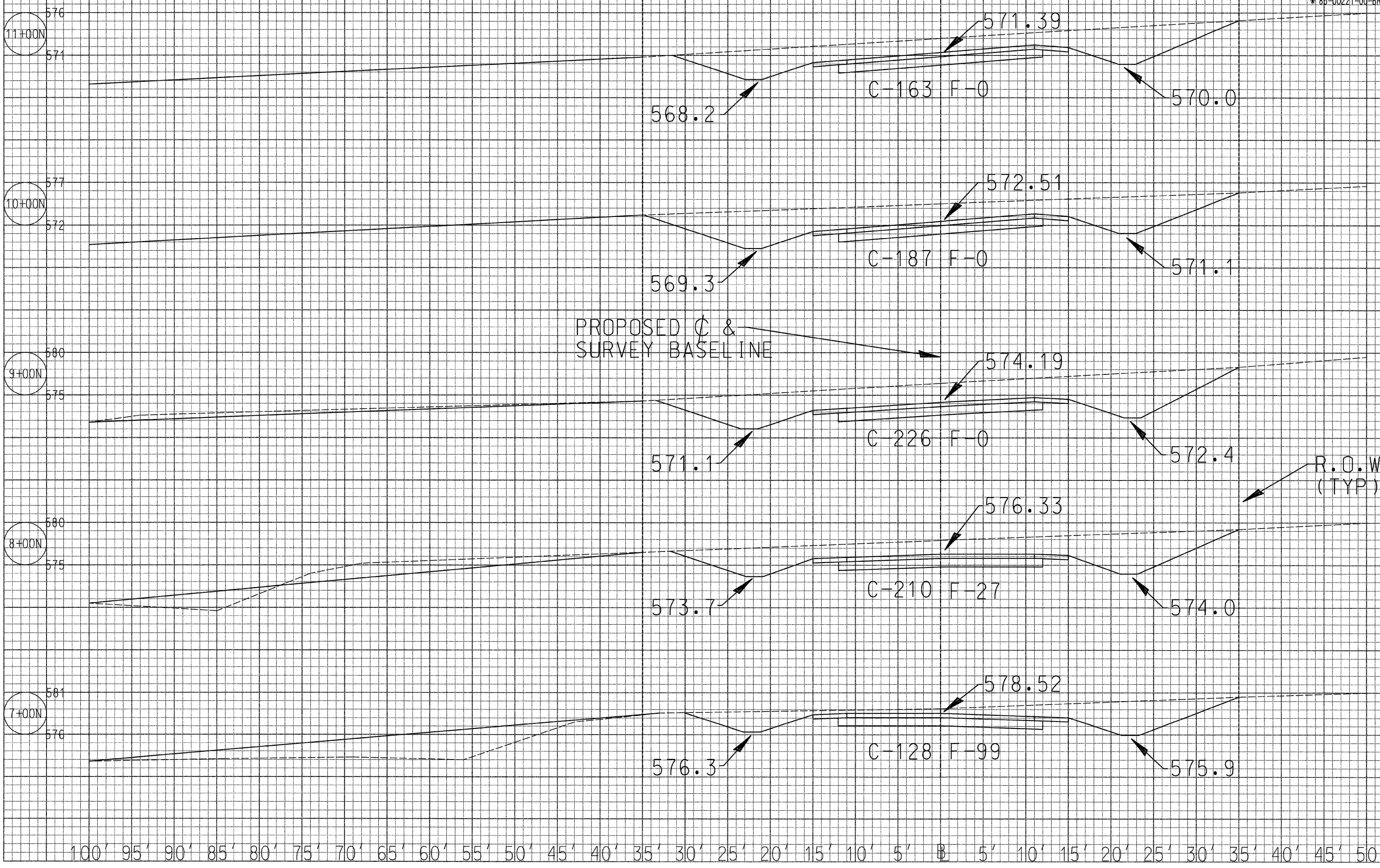
50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	49
CONTRACT NO. 187374				
* 85-00221-00-BR				

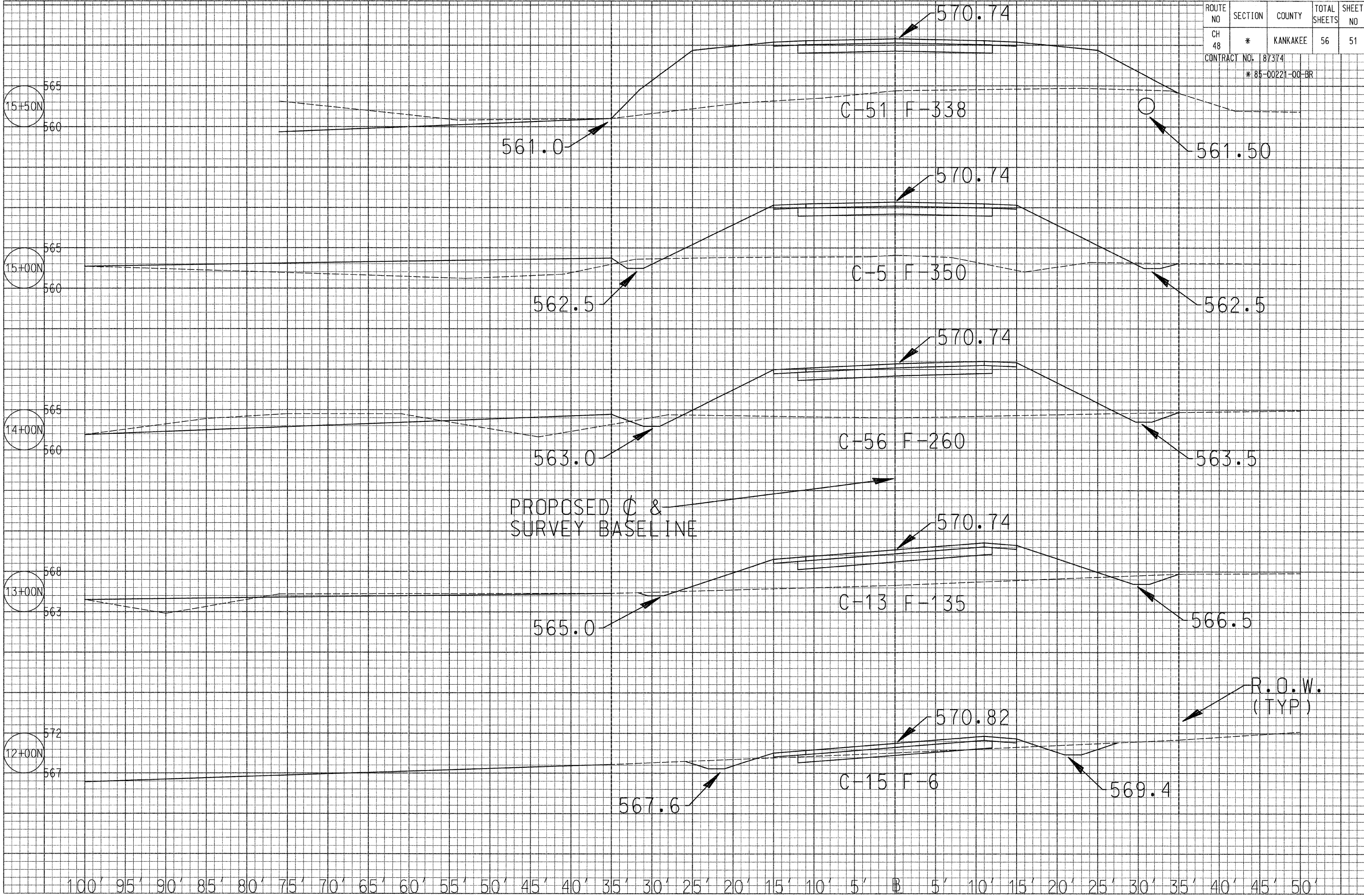


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	50
CONTRACT NO. 187374				
* 85-00221-00-BR				



100' 95' 90' 85' 80' 75' 70' 65' 60' 55' 50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 0' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	51
CONTRACT NO. 187374				
* 85-00221-00-BR				



15+50N

15+00N

14+00N

13+00N

12+00N

561.0

C-51 F-338

570.74

561.50

562.5

C-5 F-350

570.74

562.5

563.0

C-56 F-260

570.74

563.5

PROPOSED C &  
SURVEY BASELINE

565.0

C-13 F-135

570.74

566.5

R.O.W.  
(TYP)

567.6

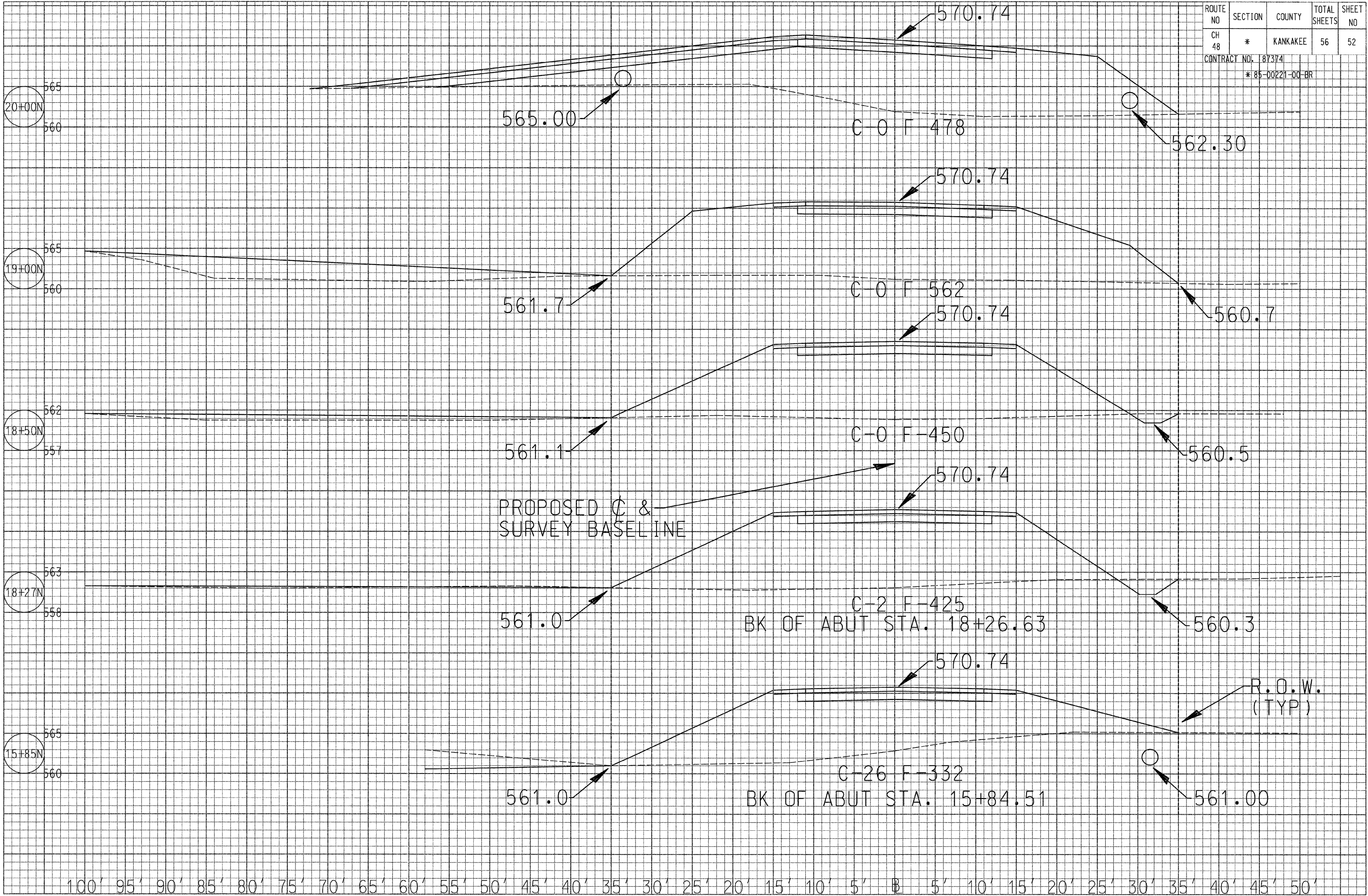
C-15 F-6

570.82

569.4

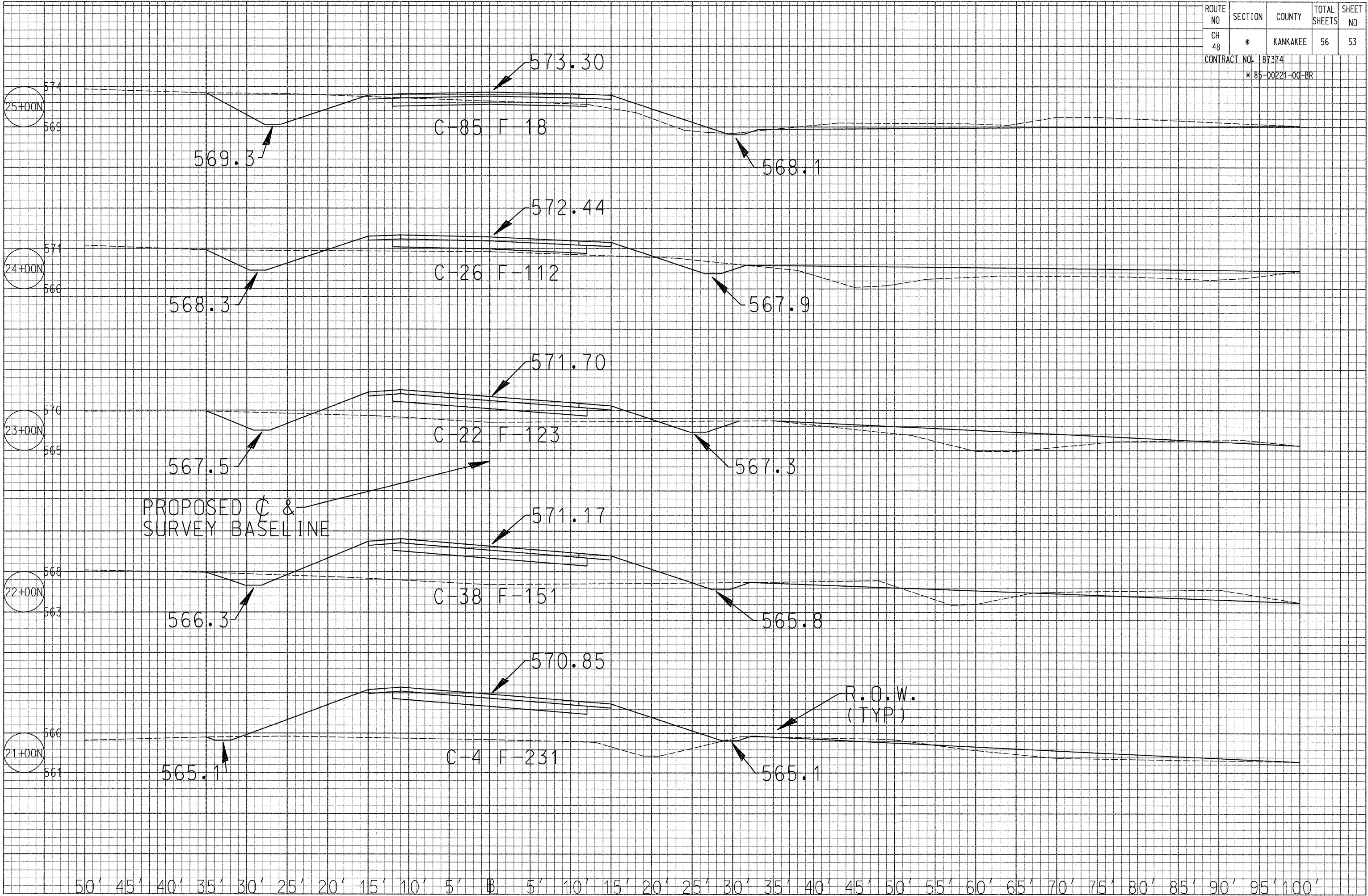
100' 95' 90' 85' 80' 75' 70' 65' 60' 55' 50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 0' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	52
CONTRACT NO. 187374				
* 85-00221-00-BR				



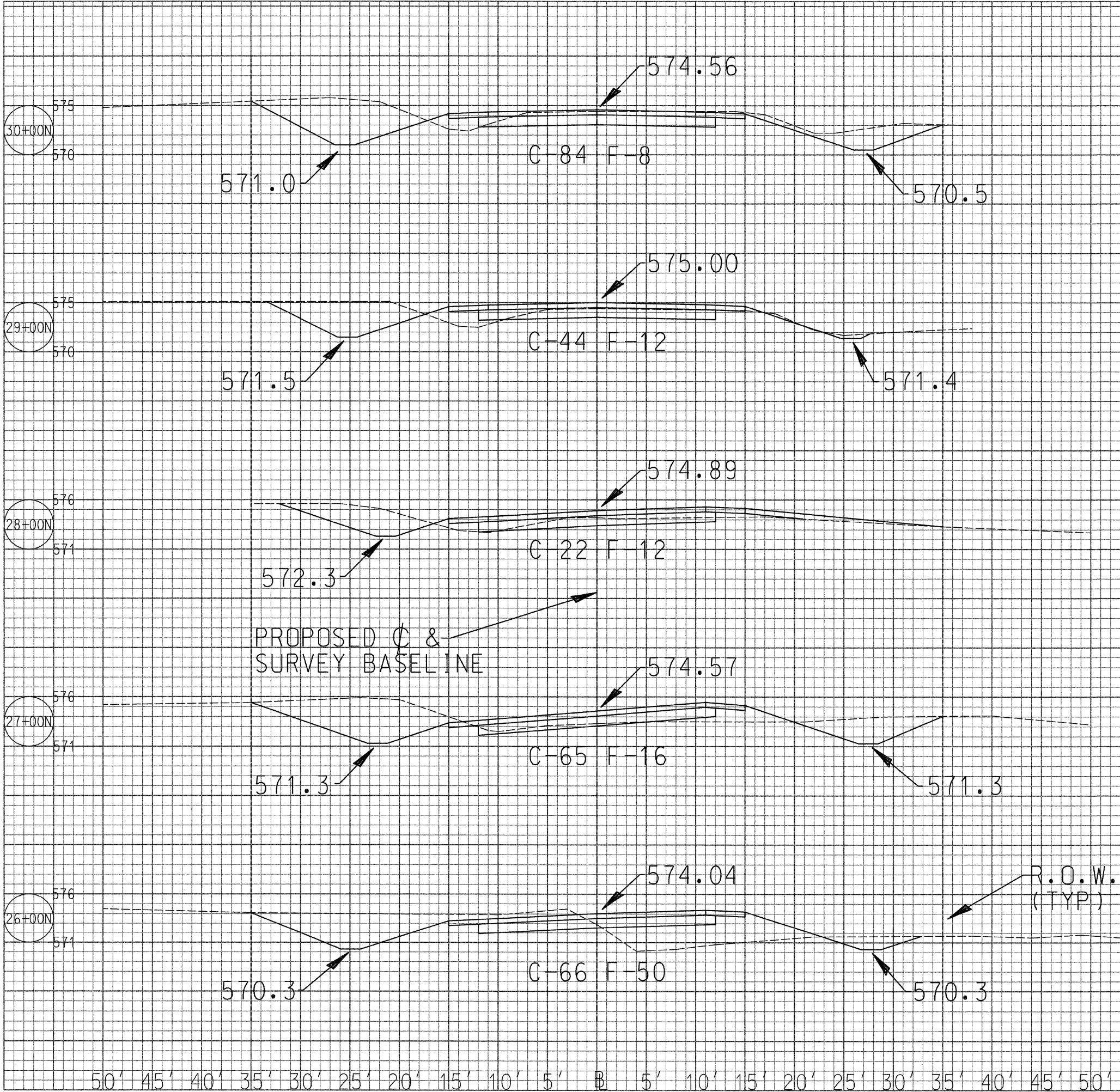
100' 95' 90' 85' 80' 75' 70' 65' 60' 55' 50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 0' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	53
CONTRACT NO. 187374				
* 85-00221-00-BR				

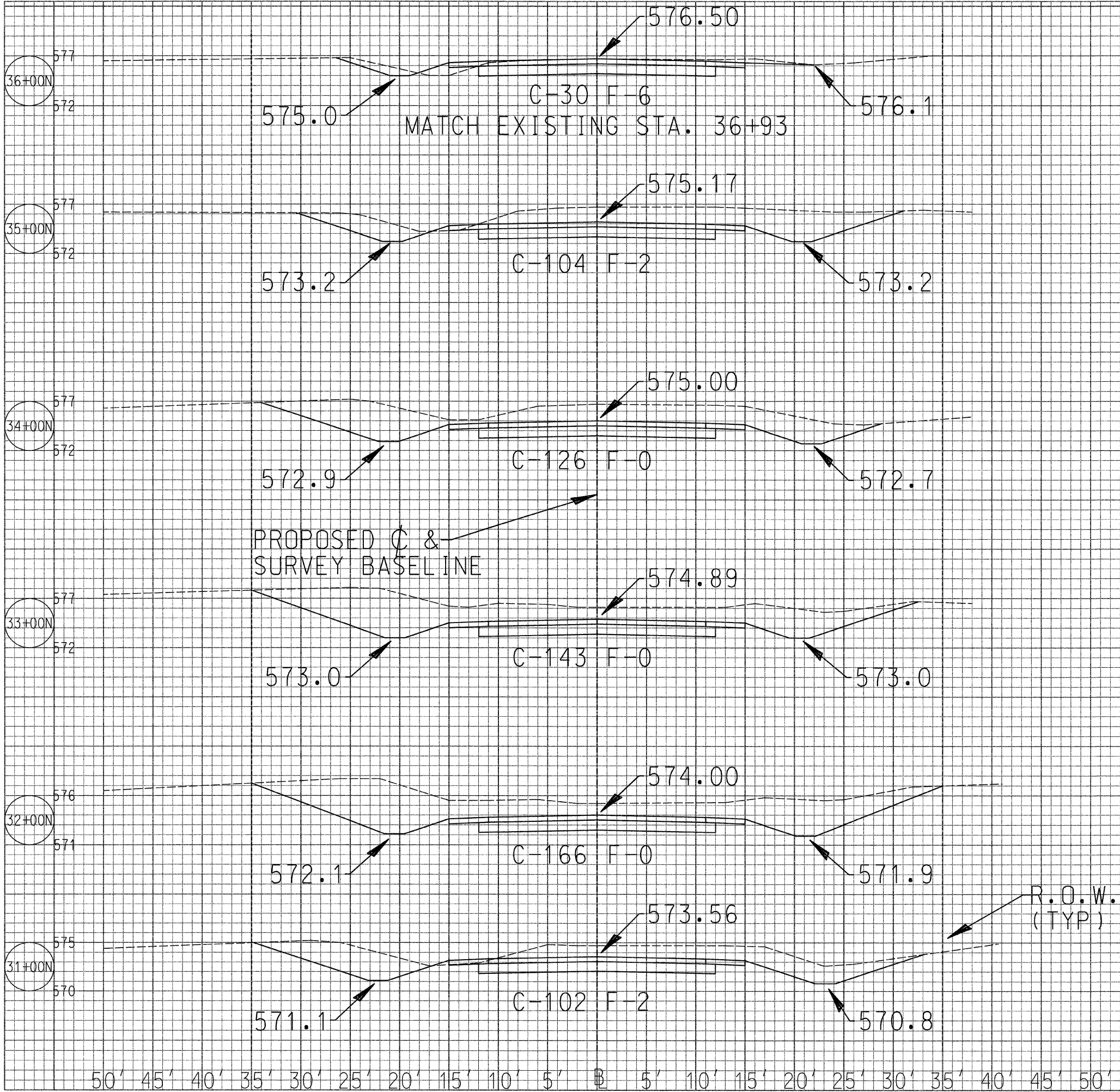


50' 45' 40' 35' 30' 25' 20' 15' 10' 5' B 5' 10' 15' 20' 25' 30' 35' 40' 45' 50' 55' 60' 65' 70' 75' 80' 85' 90' 95' 100'

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	54
CONTRACT NO. 187374				
* 85-00221-00-BR				

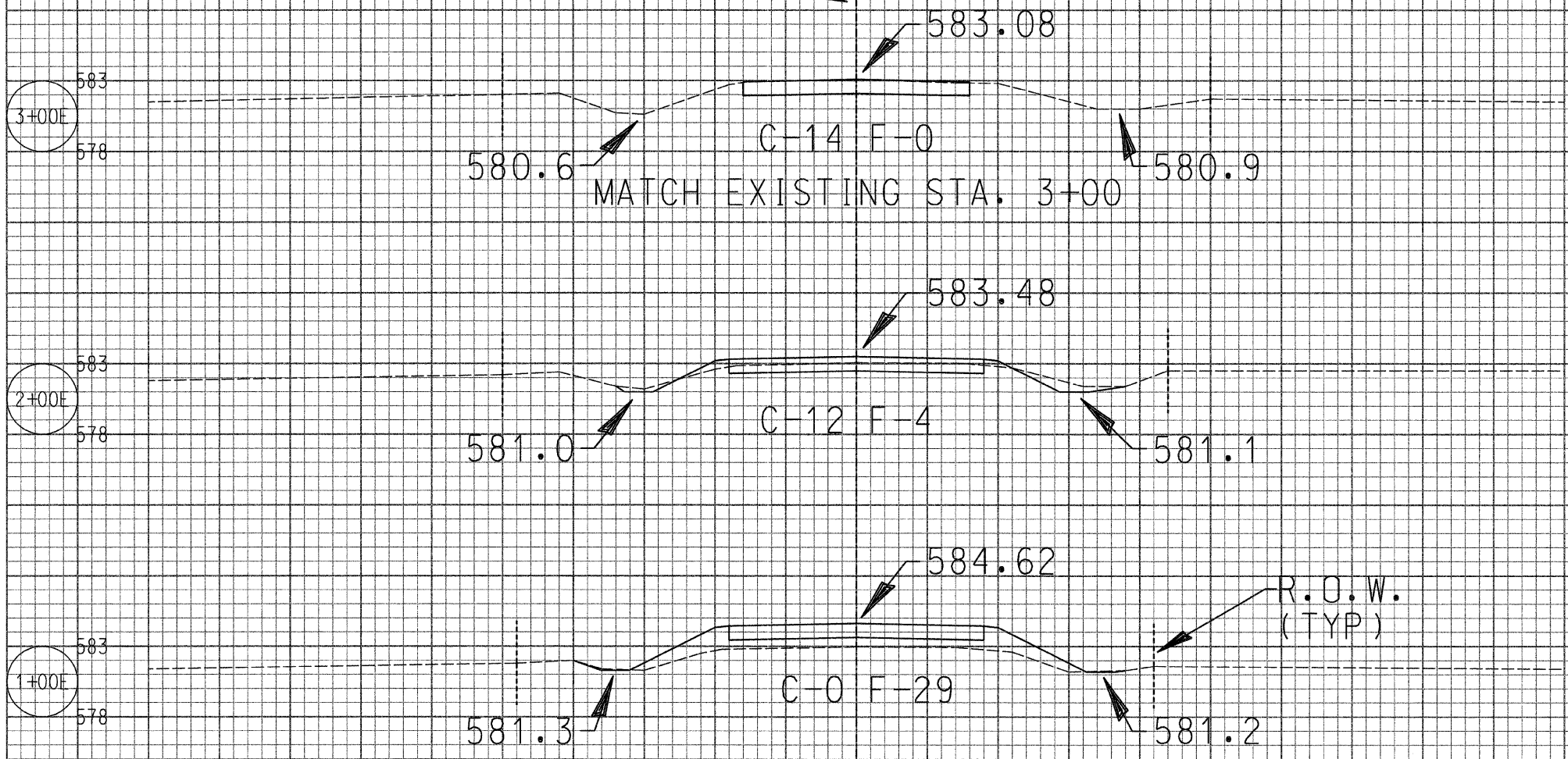


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	55
CONTRACT NO. 187374				
* 85-00221-00-BR				



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
CH 48	*	KANKAKEE	56	56
CONTRACT NO. 187374				
* 85-00221-00-BR				

CONSTRUCTION C &  
SURVEY BASELINE



50' 45' 40' 35' 30' 25' 20' 15' 10' 5' 0' 5' 10' 15' 20' 25' 30' 35' 40' 45' 50'