

NO. SETS	DATE
RECORD PLANS	
CONSTRUCTION PLANS	

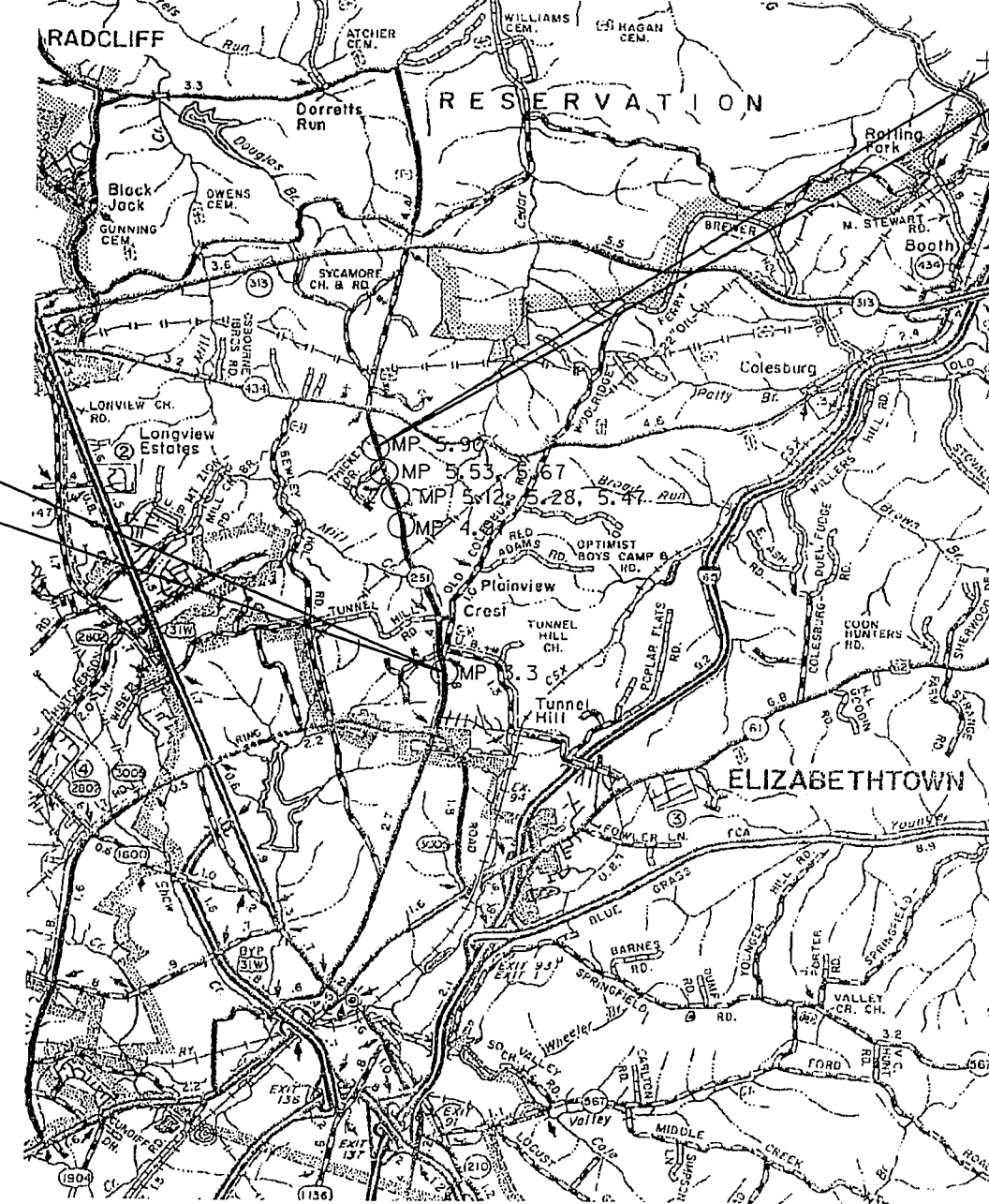
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-959.0	RI

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2	TYPICAL SECTIONS
R2a - b	SUMMARIES
R3 - R10, R5a	PLAN AND PROFILE SHEETS
R11 - R12	RIGHT OF WAY SUMMARY SHEETS
R13	RIGHT OF WAY STRIP MAP SHEETS
R14	TRAFFIC CONTROL SHEETS
R15	REFERENCE SHEETS
X1 - X71	CROSS SECTION SHEETS
X72 - X76	PIPE CROSS SECTION SHEETS
TOTAL SHEETS 15	
(R) ROADWAY (S) STRUCTURE (T) TRAFFIC (U) UTILITY (X) CROSS SECTION	76
SHEETS NOT INCLUDED IN TOTAL SHEETS 2a + 2b, R5a & X22a, X22b, X32a & X32b	

STANDARD DRAWINGS	
NUMBER	
RBI-001-09	RDH-020-03
RDB-105-05	RBH-110-02
RDD-040-04	RBH-120-02
RDI-001-07	RBH-210-03
RDI-002-02	RGX-200
RBR-035-07	TTC-100
RBR-010-05	TTD-100
RBR-035-07	TTD-105
RCX-005-04	TTD-110
RDX-210-02	
RDX-220-03	
TSC-200-07	
TOTAL STANDARD DRAWINGS - 21	

PLANS OF PROPOSED PROJECT HARDIN COUNTY STPS 7872 (007)



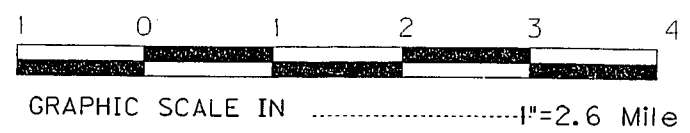
**STA. 331+10 KY 251
END CONSTRUCTION**

**STA. 191+00 KY 251
BEGIN CONSTRUCTION**

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT

THESE PLANS ARE FOR GRADE, DRAIN AND SURFACING

AS BUILT
Greta Smith by BT
Date 4/16/06



LAYOUT MAP

DESIGN CRITERIA	
CLASS OF HIGHWAY	RURAL COLLECTOR
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	55 mph
REQUIRED NPSD	
REQUIRED PSD	
LEVEL OF SERVICE	
ADT PRESENT (2003)	SECT A-5410, SECT B-4350
ADT FUTURE (2023)	SECT A-9800, SECT B-7900
DHV	SECT A-1130, SECT B-910
D %	SECT A-5.0%, SECT B-5.0%
T %	SECT A-3.3%, SECT B-3.3%
GEOGRAPHIC COORDINATES	
LATITUDE	37 DEGREES 45 MINUTES NORTH
LONGITUDE	85 DEGREES 51 MINUTES WEST
DESIGNED	
% RESTRICTED SD	
LEVEL OF SERVICE	
MAX. DISTANCE W/O PASSING	

LENGTH <u>4905</u> LIN. FT. <u>.93</u> MILES	LENGTH _____ LIN. FT. _____ MILES	LENGTH _____ LIN. FT. _____ MILES	LENGTH _____ LIN. FT. _____ MILES
ADDED FOR EQUALITIES _____ LIN. FT. _____ MILES	ADDED FOR EQUALITIES _____ LIN. FT. _____ MILES	ADDED FOR EQUALITIES _____ LIN. FT. _____ MILES	ADDED FOR EQUALITIES _____ LIN. FT. _____ MILES
NOT INCLUDED _____ LIN. FT. _____ MILES	NOT INCLUDED _____ LIN. FT. _____ MILES	NOT INCLUDED _____ LIN. FT. _____ MILES	NOT INCLUDED _____ LIN. FT. _____ MILES
RAILROAD CROSSINGS NO. _____ LIN. FT. _____ MILES	RAILROAD CROSSINGS NO. _____ LIN. FT. _____ MILES	RAILROAD CROSSINGS NO. _____ LIN. FT. _____ MILES	RAILROAD CROSSINGS NO. _____ LIN. FT. _____ MILES
BRIDGES _____ LIN. FT. _____ MILES	BRIDGES _____ LIN. FT. _____ MILES	BRIDGES _____ LIN. FT. _____ MILES	BRIDGES _____ LIN. FT. _____ MILES

**KENTUCKY
DEPARTMENT OF HIGHWAYS
COUNTY OF
HARDIN
GUARDRAIL CONSTRUCTION/
SPOT IMPROVEMENTS ON KY251**

ITEM NO. 4-959.0

PROJECT NUMBER: FD52 047 0251 002-007

LETTING DATE: 5-23-03

RECOMMENDED BY: [Signature] DATE: _____ PROJECT MANAGER

PLAN APPROVED BY: _____ DATE: _____ STATE HIGHWAY ENGINEER

PCN 337
REVIEWED BY _____
DIVISION OF CONSTRUCTION

Cell Library: kytc.cel
Cell Name: el
20-442R-2003 11-10

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	STA 191+60-	STA 195+00	STA 228+00-	STA 230+70	STA 260+50-	STA 270+00	STA 276+10-	STA 282+75	STA 285+00-	STA 291+50	STA 293+80-	STA 300+30	STA 304+50-	STA 316+40	STA 328+10-	STA 331+50	TOTAL PROJECT
2230	EMBANKMENT IN PLACE ①	CU YD	1137	574			437	724	827	677					801	425			5602
2351	GUARDRAIL-STEEL W BEAM-S FACE	LIN FT					775	575	375	700					775	250			3450
2360	GUARDRAIL TERMINAL SECTION NO. 1	EACH	1					1	1					5	1				8
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	1				2	1	1	4				1	1				10
2483	CHANNEL LINING CLASS II	TON	12	6			120	12	103	216				12	6				487
2545	CLEARING AND GRUBBING ②	LP SUM																	1
2562	SIGNS	SQ FT																	152
2597	FABRIC-GEOTEXTILE TYPE II	SQ YD	32	16				32	16	16				32	16				160
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM																	1
2701	TEMPORARY SILT FENCE	LIN FT	370	130			460	270	370	390				392	250				2632
2705	SILT CHECK	EACH								1									1
2709	CLEAN TEMP SILT FENCE	EACH	370	130			460	270	370	390				392	250				2632
2708	CLEAN SILT CHECK	EACH								1									1
2726	STAKING	LP SUM																	1
5985	SEEDING & PROTECTION	SQ YD	978	367			2334	1149	978	1797				1296	672				9571
5989	SPECIAL SEEDING CROWN VETCH	SQ YD	978	367			2334	1393	1039	1797				1296	672				9876
2625	REMOVING HEADWALL	EACH	2	1				2	1	1				2	1				10
2625	DEMOBILIZATION	LP SUM																	1
	Small Diameter Pipe (12" dia)	Each																	12

① Includes 2190 C.Y. Benching, 3412 C.Y. Embankment In Place
 ② 2.14 Acres

PROJECT TOTALS ROADWAY EARTHWORK BALANCES

COMMON EXCAVATION	181	CU. YDS.
EMBANKMENT	3412	CU. YDS.
BENCHING	2190	CU. YDS.

PIPE DRAINAGE SUMMARY

SHEET NO.	ITEM CODE	SKEW	DESIGN PH	COVER HEIGHT	CULVERT PIPE			CONCRETE CLASS A	STEEL REINFORCEMENT	REMOVE HEADWALL	REMARKS
					18"	24"	30"				
	UNIT TO BID		PH	FT.	LIN FT	LIN FT	LIN FT	CU. YD.	LBS.	EACH	
R4	STA. 191+46 RT.		M	2-5		27	-19	1.68	140.5	+	SEE PLANS-PIPE SHEETS
R4	STA. 193+80 RT.		M	2-5		1824		1.35	8	+	SEE PLANS-PIPE SHEETS
R5	STA. 229+40 LT.		M	2-5	13			0.93	8	1	SEE PLANS-PIPE SHEETS
R7	STA. 279+65 LT. 30° RT.		M	2-5		10		1.35	8	1	SEE PLANS-PIPE SHEETS
R7	STA. 280+77 LT. 30° LT.		M	2-5	56			0.93	8	1	SEE PLANS-PIPE SHEETS
R8	STA. 289+74 LT.		M	2-5		14		1.68	140.5	1	SEE PLANS-PIPE SHEETS
R8	STA. 297+70 LT.		M	2-5	12	14		0.93	8	1	SEE PLANS-PIPE SHEETS
R9	STA. 305+59 LT.		M	2-5	56			0.93	8	1	SEE PLANS-PIPE SHEETS
R9	STA. 315+27 LT. 30° LT.		M	2-5	58			0.93	8	1	SEE PLANS-PIPE SHEETS
R10	STA. 328+87 LT.		M	2-5	58			0.93	8	1	SEE PLANS-PIPE SHEETS
TOTAL PROJECT					45	76	28	-33	11.64	345	-10 *

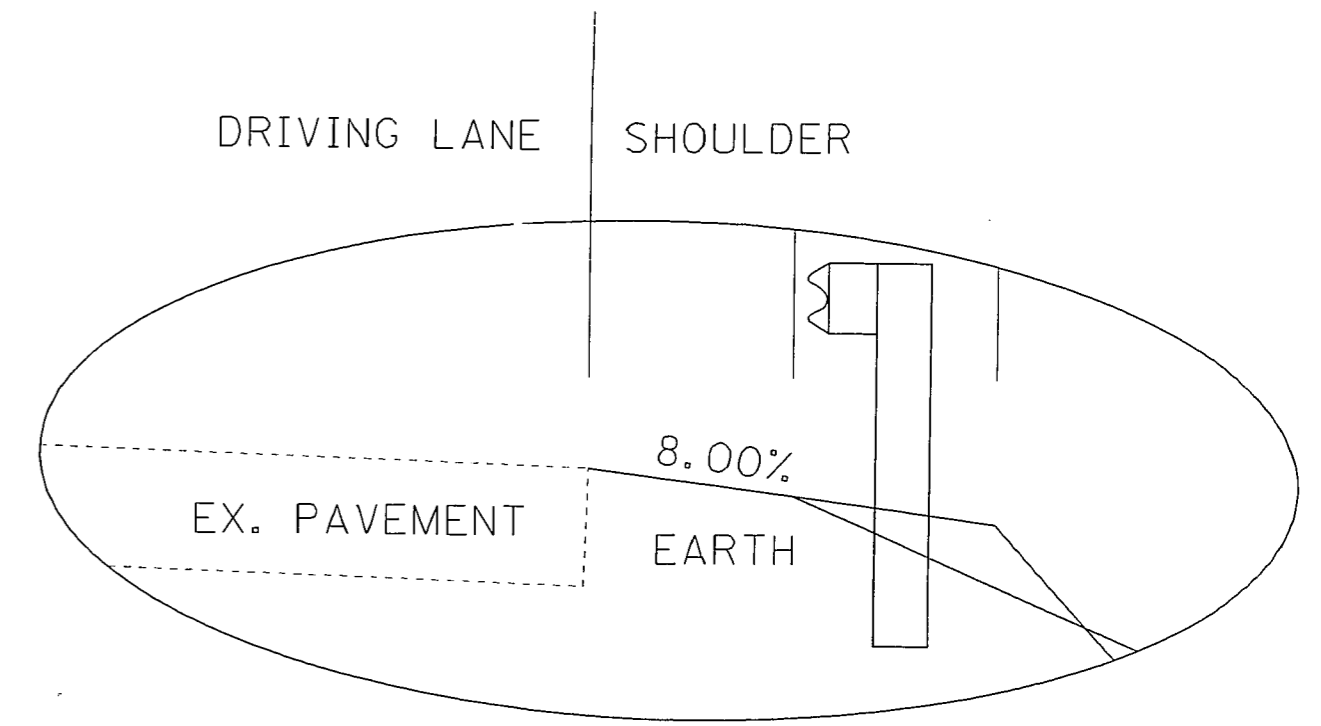
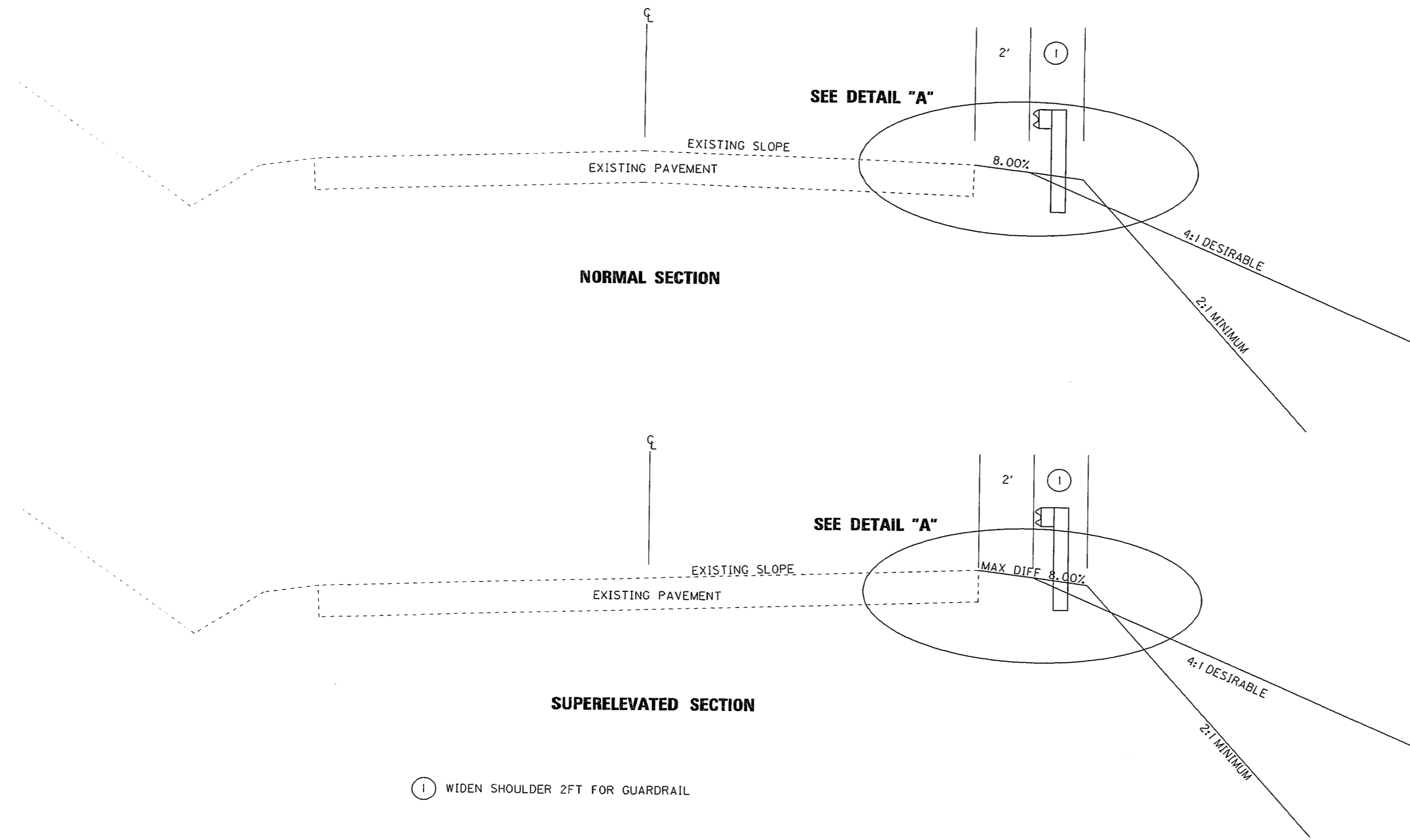
* TOTAL CARRIED FORWARD TO THE GENERAL SUMMARY

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

Cell Library: ky1c.cel
 Cell Name: sops
 20-MAR-2003 11:18

TYPICAL SECTIONS

DETAIL "A"



① WIDEN SHOULDER 2FT FOR GUARDRAIL

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

Cell Library: kyt.cel
 Cell Name: sp
 20-MAR-2003 11:16

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-959.0	R2b

GENERAL NOTES

N.G.S. (U.S.G.S.) BENCH MARKS

DO NOT DISTURB N.G.S. (U.S.G.S.) BENCH MARKS IN ANY MANNER UNLESS DIRECTED BY THE ENGINEER.

BEFORE YOU DIG

CALL 1-800-752-6007 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. SHOW ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ON SHEET NO. 3 OF THE PLANS.

EROSION CONTROL

USE SEED MIXTURE NO. 1

COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED ON THIS PROJECT BY OPTION B ACCORDING TO SUBSECTIONS 402.03.02 AND 403.03.10 OF THE STANDARD SPECIFICATIONS.

STANDARD DRAWINGS FOR HEADWALLS

STANDARD DRAWINGS FOR HEADWALLS (RDH SERIES) ARE NOT ATTACHED TO THESE PLANS BUT ARE AVAILABLE IN THE SUPPLEMENT TO THE STANDARD DRAWING BOOK, WHICH MAY BE OBTAINED FROM THE OFFICE OF POLICY & BUDGET DIVISION OF THE DEPARTMENT OF HIGHWAYS IN FRANKFORT, KENTUCKY AT A COST OF \$5.00 PER COPY

CONVENTIONAL SIGNS

SURVEY LINE
GRADE LINE
GROUND LINE
COUNTY LINE
CORPORATE LIMITS
EXIST. RIGHT OF WAY & PROPERTY LINE
PROPOSED RIGHT OF WAY
RIGHT OF WAY MARKERS

BENCH MARK
MUNICIPAL RIGHT OF WAY MARKER
RURAL RIGHT OF WAY MARKER

EXISTING ROAD
RAILROAD
FENCE (CONTROLLED ACCESS)
FENCE (EXCEPT STONE AND HEDGE)

TREES
PIPE CULVERT
CULVERT
BRIDGE

BUILDINGS
GUARDRAIL

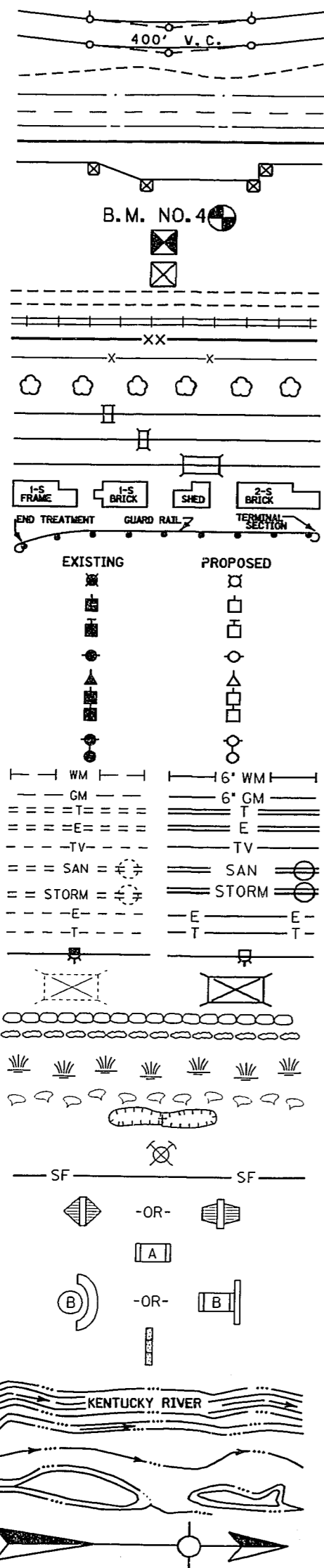
LIGHTING POLE
POWER POLE
JOINT POWER & TELEPHONE POLE
TELEPHONE & TELEGRAPH POLE
ANCHOR, POWER OR TELEPHONE
STUB POWER

STUB TELEPHONE
WATER MAIN
GAS MAIN
TELEPHONE DUCT
ELECTRIC DUCT
DIRECT BURIAL TV CABLE
SANITARY SEWER (WITH MANHOLE)
STORM SEWER (WITH MANHOLE)
DIRECT BURIAL ELECTRIC CABLE
DIRECT BURIAL TELEPHONE CABLE
TRAFFIC LIGHTS

TOWER
STONE FENCE
HEDGE FENCE
SWAMP OR MARSH
SPRINGS
SINKHOLE
QUARRY SITE
SILT FENCE
SILT CHECK TYPE II

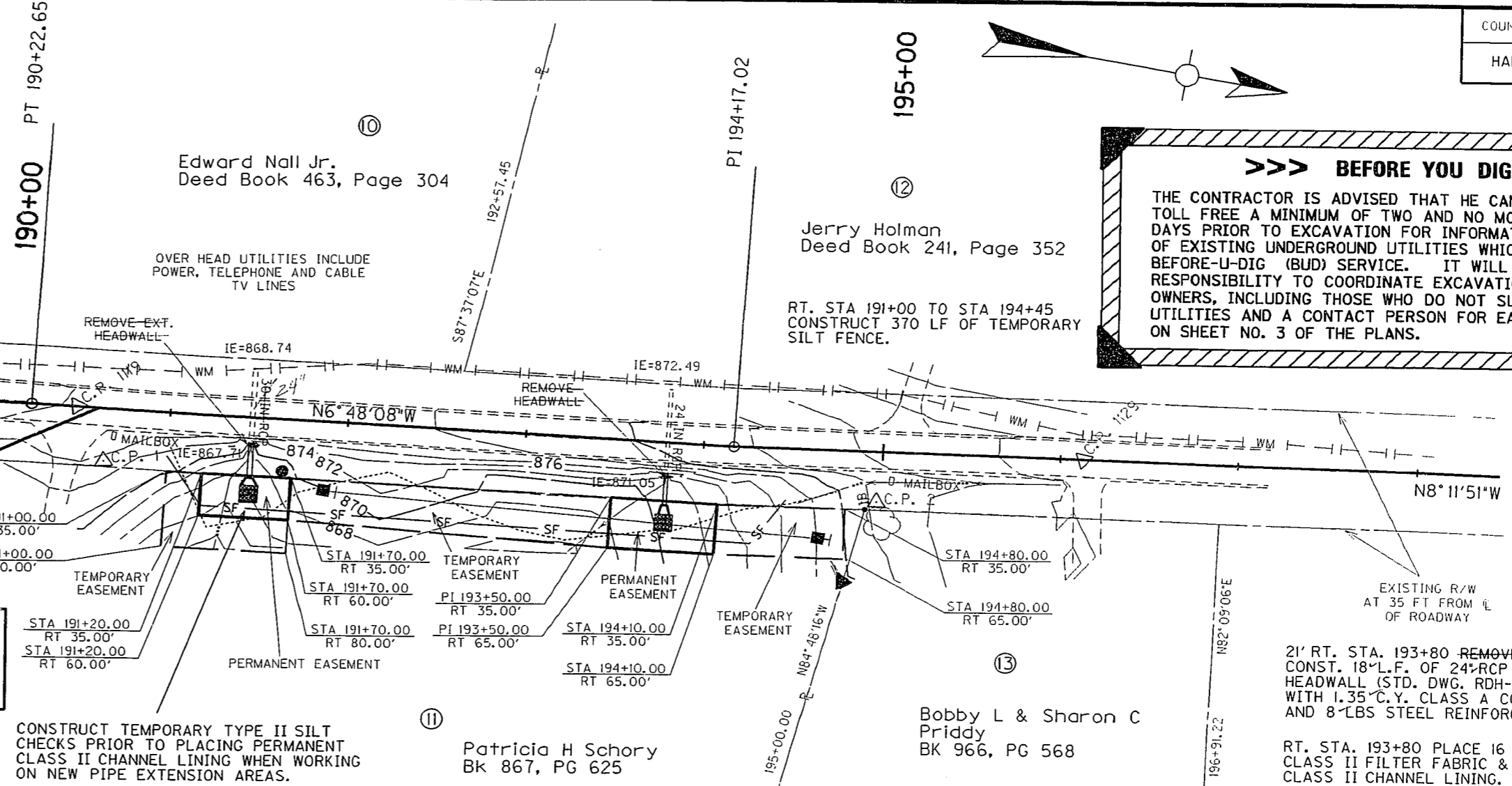
SILT TRAP A
SILT TRAP B
SILT CHECK TYPE I

LARGE STREAM
SMALL STREAM
INTERMITTENT STREAM
LAKES OR PONDS
NORTH POINT

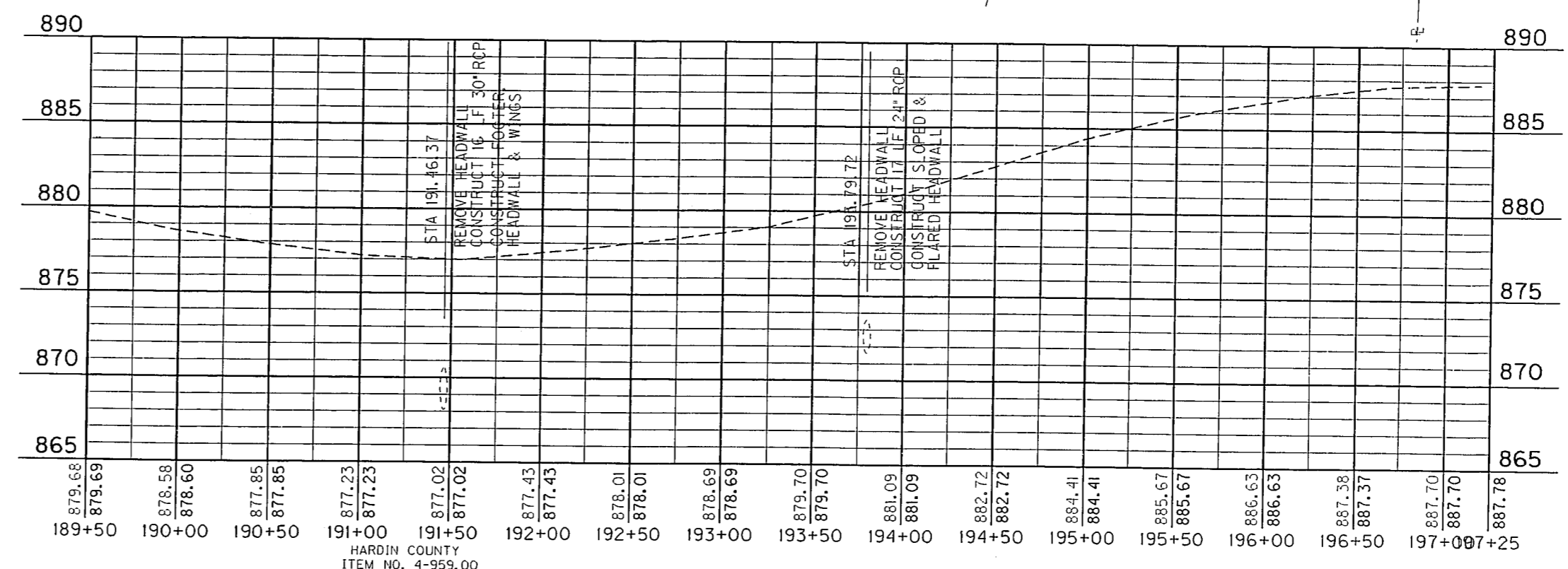


18 RT. STA. 191+46 REMOVE HEADWALL REMAINS
CONST. 19" L.F. OF 50" RCP WITH SLOPED &
FLARED HEADWALL. (STN. DWG. NO. RDH-
110 & 120) WITH 1.68 C.Y. CLASS A CONCRETE
AND 140-5 LBS. STEEL REINFORCEMENT.
(PIPE LENGTHS INCLUDE 1 EXTRA FOOT
IF REQUIRED WHERE HEADWALLS ARE
REMOVED.)
ANY CLEANING OUT OF DRAINAGE
PIPES IF REQUIRED WILL BE
INCIDENTAL.
RT. STA. 191+46 PLACE 16 SO. YD
CLASS II FILTER FABRIC & 7 TONS
CLASS II CHANNEL LINING.

**STA 191+00 KY 251
BEGIN CONSTRUCTION**



CONSTRUCT TEMPORARY TYPE II SILT
CHECKS PRIOR TO PLACING PERMANENT
CLASS II CHANNEL LINING WHEN WORKING
ON NEW PIPE EXTENSION AREAS.



UTILITY COMPANY	CONTACT	PHONE
HARDIN COUNTY WATER DISTRICT NO. 2 360 RING ROAD ELIZABETHTOWN, KY 42701	KEVIN THOMAS	270-737-1056
ALLTEL SOUTH, INC. 111 SOUTH MAIN STREET ELIZABETHTOWN, KY 42701-1418	BARRY ROBERTS	270-765-6153
NOLIN RECC 411 RING ROAD ELIZABETHTOWN, KY 42701	PAUL BAKER	270-765-6153
COM CAST COMMUNICATIONS 2919 RING ROAD ELIZABETHTOWN, KY 42701	KEN DASHNAW	270-765-2731
MID-VALLEY PIPELINE COMPANY P.O. BOX 150 BURKSTOWN, KY 41005	DISCK COOK	859-371-4469

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

**KENTUCKY
DEPARTMENT OF HIGHWAYS
COUNTY OF**

PROJECT
NUMBERS

**KY HIGHWAY 251
SPOT IMPROVEMENT
MP 3.30**

5

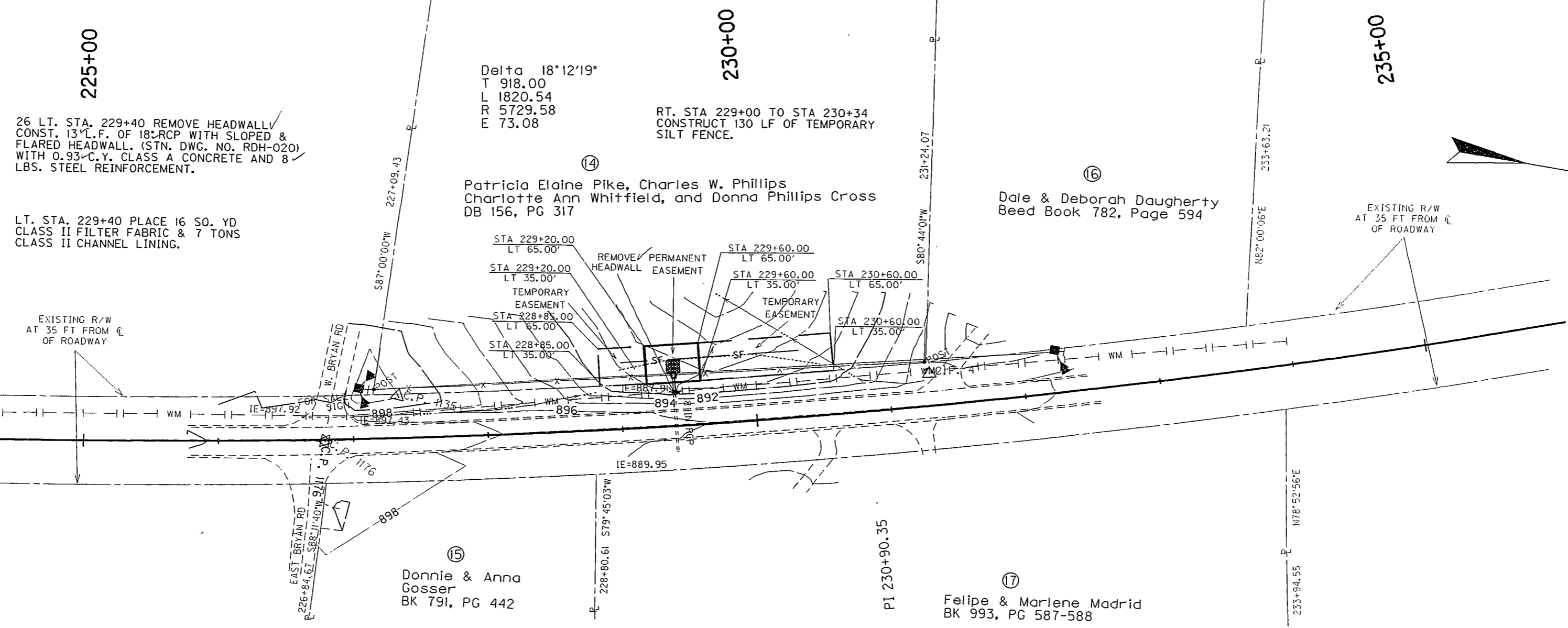
COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-959.00	R3

BEFORE YOU DIG

THE CONTRACTOR IS ADVISED THAT HE CAN CALL 1-800-752-6007
TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS
DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION
OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE
BEFORE-U-DIG (BUD) SERVICE. IT WILL BE THE CONTRACTOR'S
RESPONSIBILITY TO COORDINATE EXCAVATION WITH ALL UTILITY
OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO BUD. ALL
UTILITIES AND A CONTACT PERSON FOR EACH COMPANY ARE SHOWN
ON SHEET NO. 3 OF THE PLANS.

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

Cell Library: ky/tc.cel
Cell Name: sp
20-MAR-2003 11:21



26 LT. STA. 229+40 REMOVE HEADWALL
CONST. 13' L.F. OF 18" RCP WITH SLOPED &
FLARED HEADWALL. (STN. DWG. NO. RDH-020)
WITH 0.93 C.Y. CLASS A CONCRETE AND 8
LBS. STEEL REINFORCEMENT.

LT. STA. 229+40 PLACE 16 SQ. YD
CLASS II FILTER FABRIC & 7 TONS
CLASS II CHANNEL LINING.

Delta 18°12'19"
T 918.00
L 1820.54
R 5729.58
E 73.08

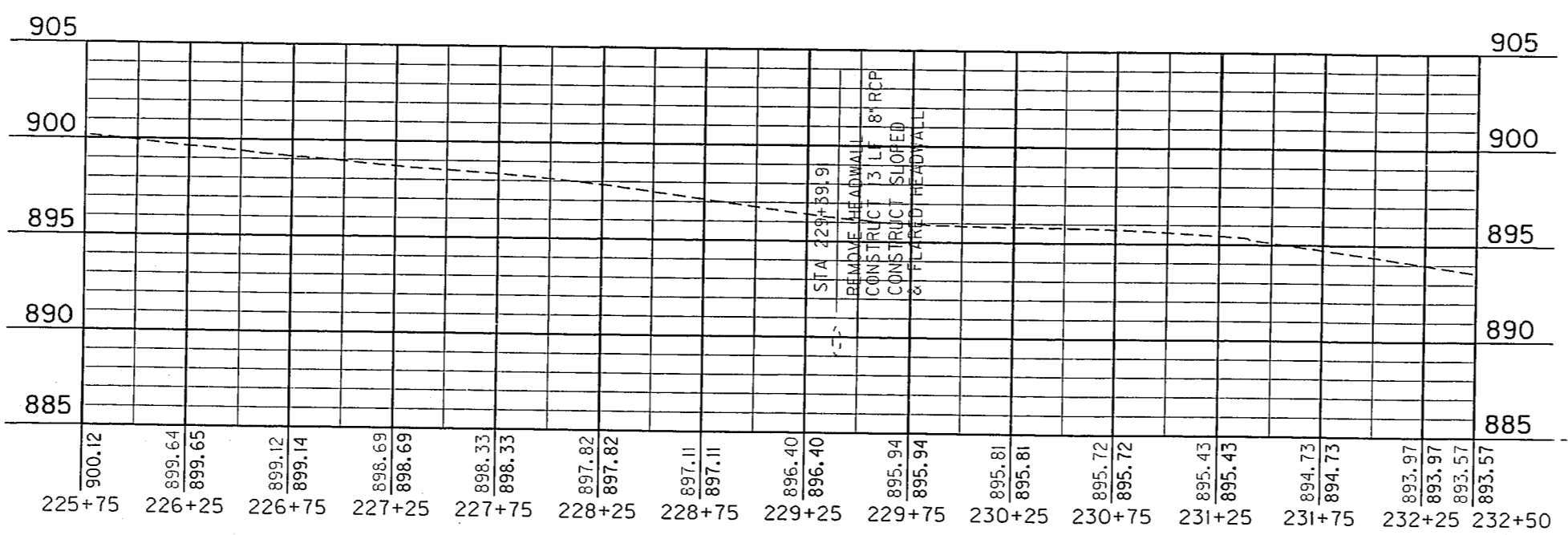
RT. STA 229+00 TO STA 230+34
CONSTRUCT 130 LF OF TEMPORARY
SILT FENCE.

Patricia Elaine Pike, Charles W. Phillips
Charlotte Ann Whitfield, and Donna Phillips Cross
DB 156, PG 317

Dale & Deborah Daugherty
Beed Book 782, Page 594

Donnie & Anna
Gosser
BK 791, PG 442

Felipe & Marlene Madrid
BK 993, PG 587-588



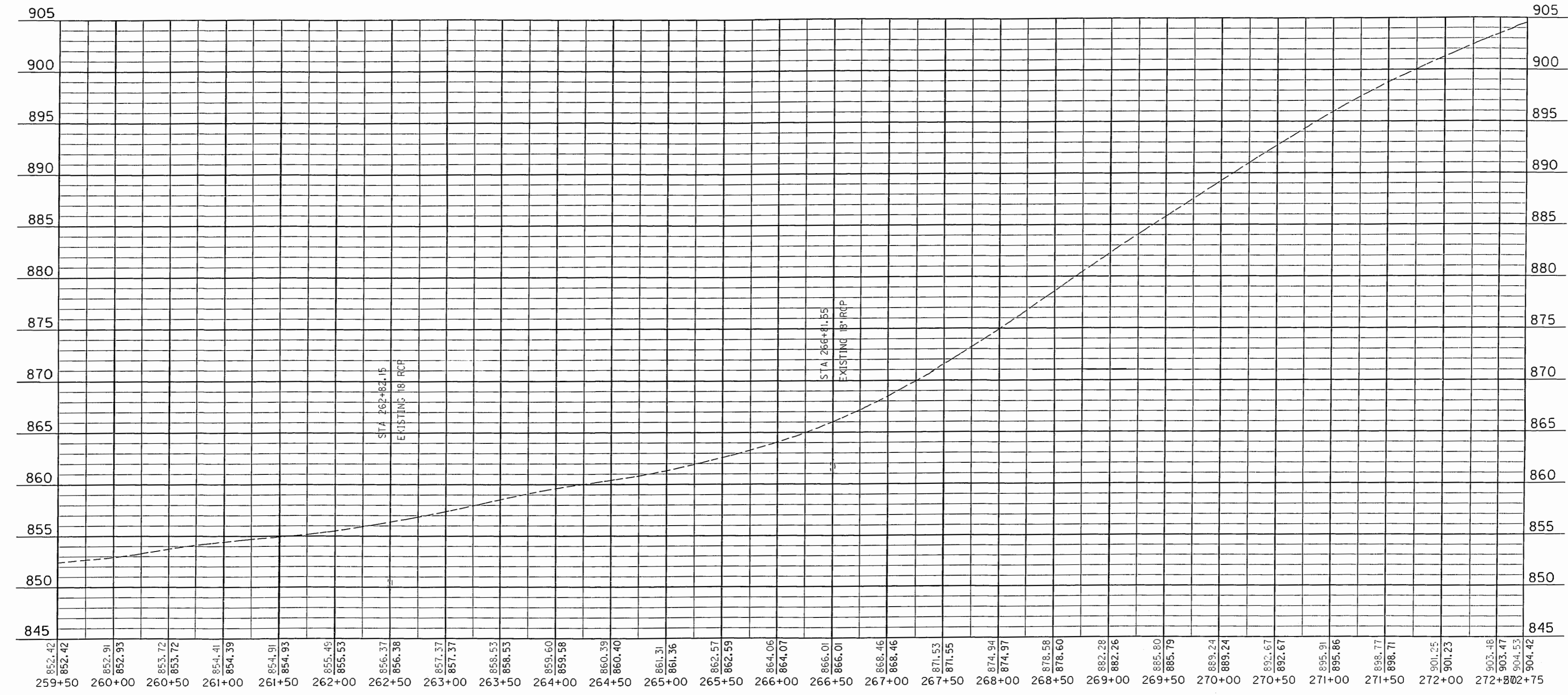
PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

Cell Library: kyt.cel
Cell Name: sp
21-MAR-2003 13:27

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

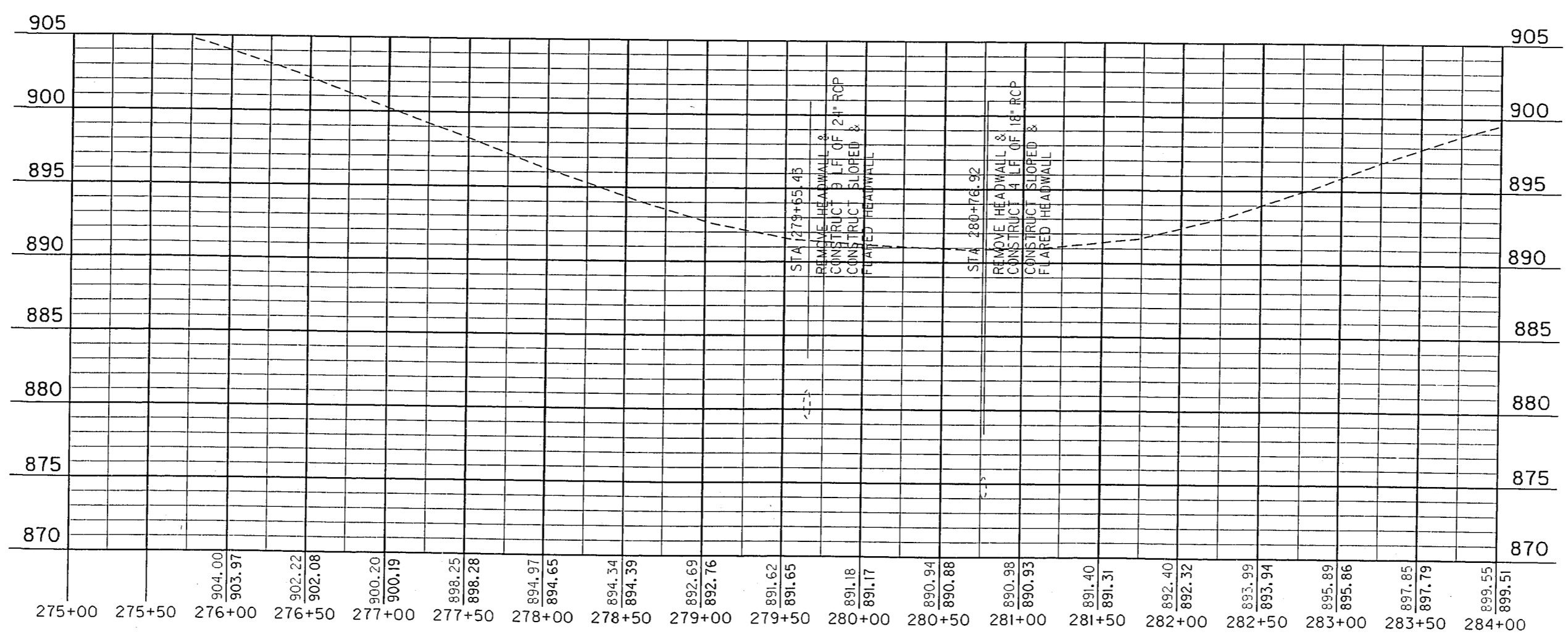
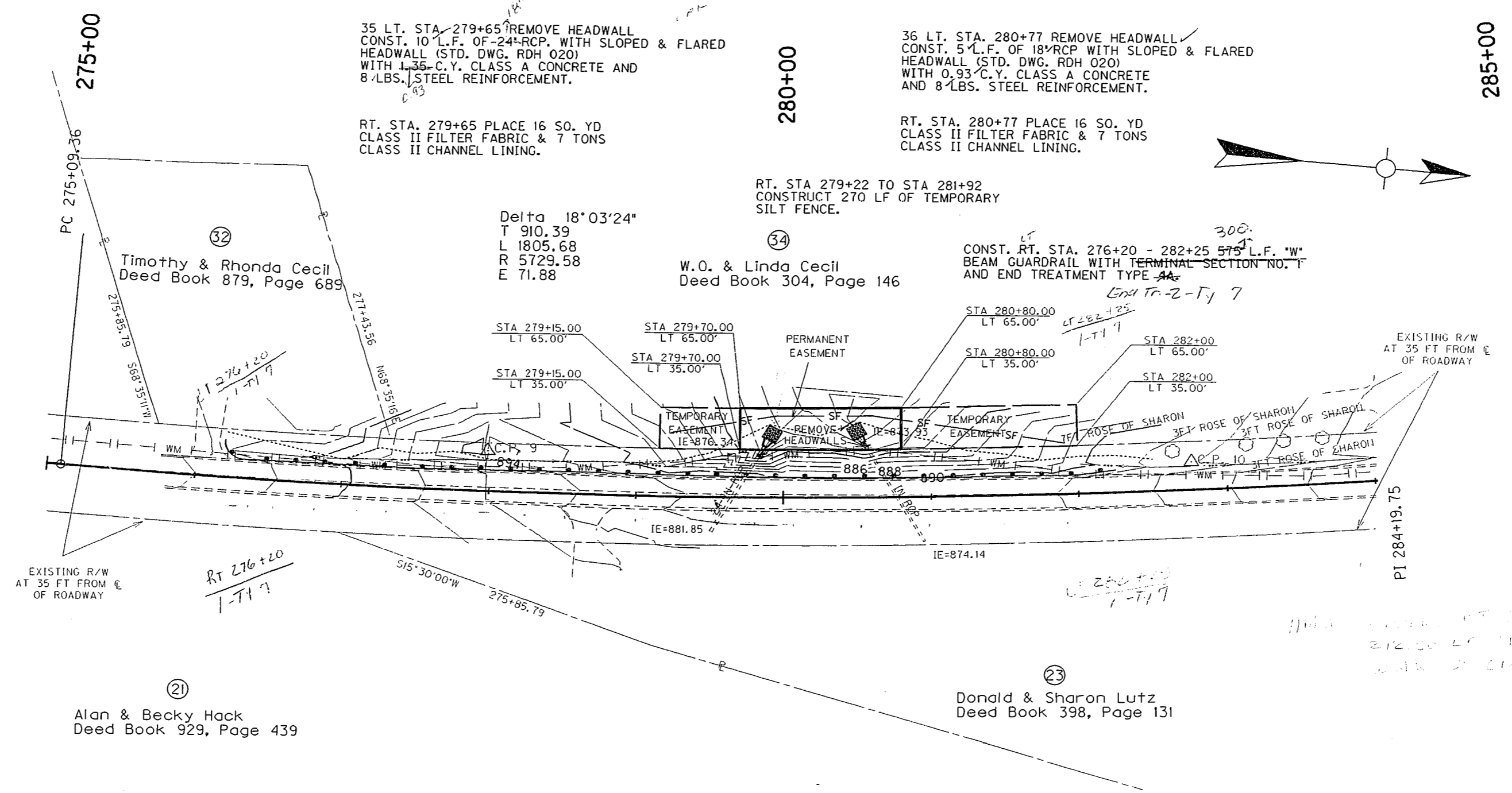
PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

Cell Library: kyt.cel
 Cell Name: sp
 20-MAR-2003 11:28



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

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-959.00	R6

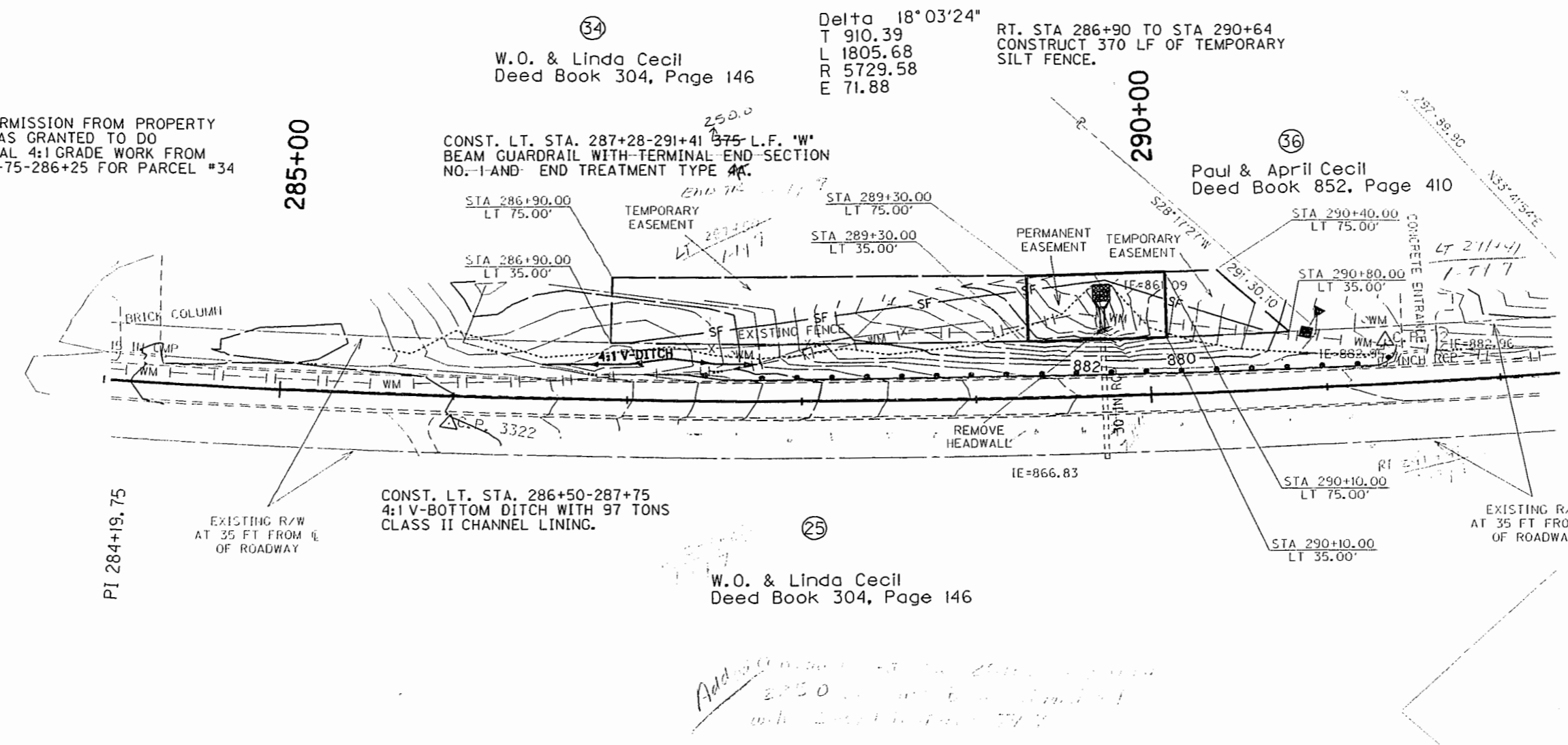


SCALE: 1" = 50' HORIZ.
1" = 5' VERT

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

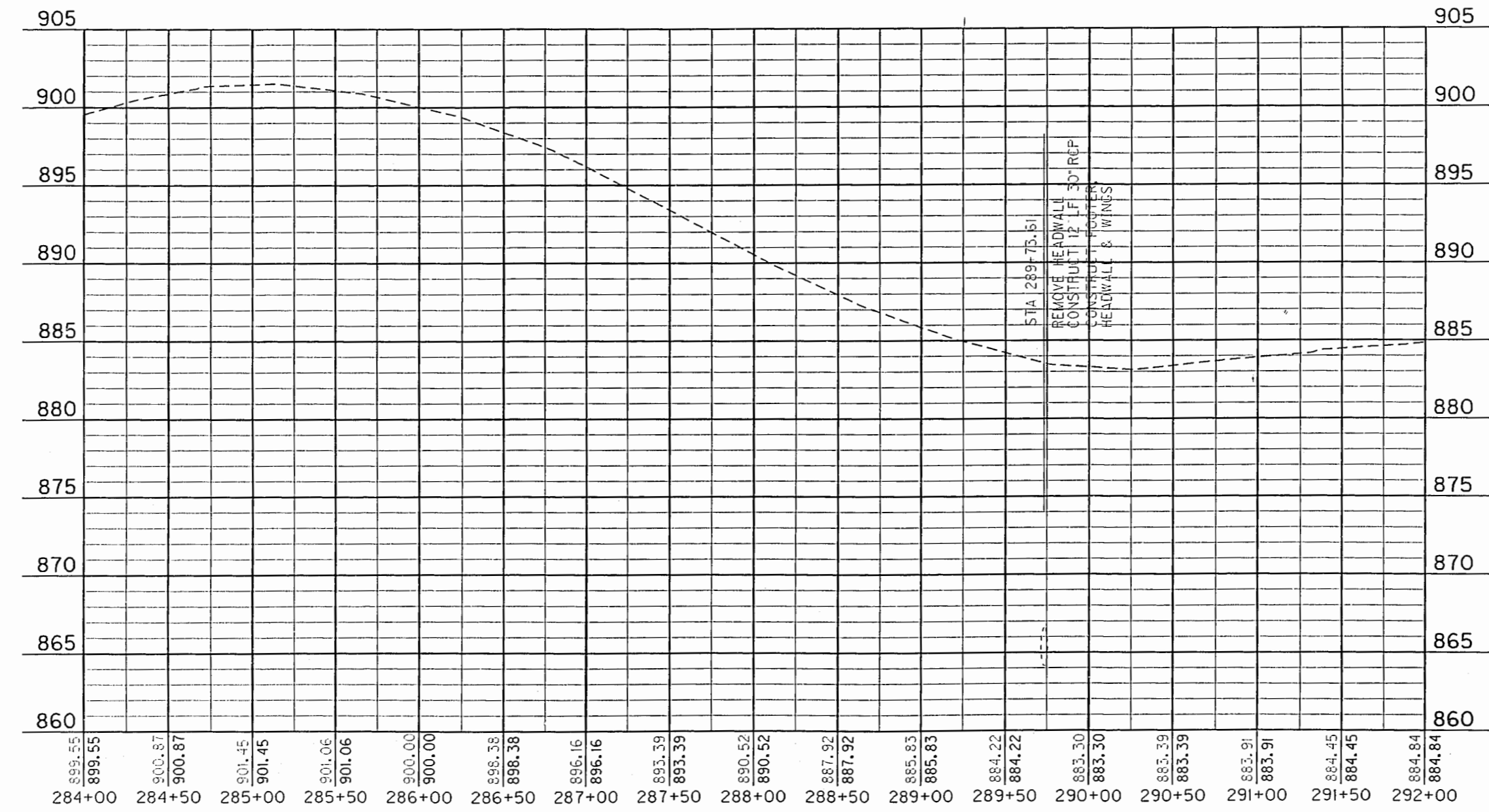
Cell Library: kytcc.cel
Cell Name: sp
21-MAR-2003 13:41

NOTE: PERMISSION FROM PROPERTY OWNER WAS GRANTED TO DO ADDITIONAL 4:1 GRADE WORK FROM STA 285+75-286+25 FOR PARCEL #34



42 LT. STA. 289+74 REMOVE HEADWALL
 CONST. 14'-L.F. OF 30" RCP WITH
 FOOTER, HEADWALL & WINGS (STD. DWG. RDH-110 & 210)
 WITH 1-68-YDS CLASS A CONCRETE &
 140-5 LBS. STEEL REINFORCEMENT.

RT. STA. 289+74 PLACE 16 SQ. YD
 CLASS II FILTER FABRIC & 7 TONS
 CLASS II CHANNEL LINING.



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

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

Cell Library: kytccel
 Cell Name: sp
 20-MAR-2003 11:27

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-959.00	R8

Delta 18°03'24"
 T 910.39
 L 1805.68
 R 5729.58
 E 71.88

38
 Russell & Mary Hargis
 Deed Book 800, Page 99

40
 Ha Thanh & Nga Le
 Deed Book 630, Page 95

44 RT. STA. 297+71 REMOVE HEADWALL
 CONST. 13 L.F. OF 18" RCP WITH
 SLOPED & FLARED HEADWALL
 WITH 0.93 C.Y. CONCRETE AND
 8 LBS. STEEL REINFORCEMENT.

RT. STA. 297+71 PLACE 16 SQ. YD
 CLASS II FILTER FABRIC & 7 TONS
 CLASS II CHANNEL LINING.

42
 Charles & Rita Brown
 Deed Book 836, Page 688

EXISTING R/W
 AT 35 FT FROM
 OF ROADWAY

CONST. LT. STA. 294+38 - 299+63
 BEAM GUARDRAIL WITH END TREATMENT TYPE 4A.

27
 Raymond & Linda Redmond
 Deed Book 711, Page 336

STA 296+80.00
 RT 35.00'

STA 296+80.00
 RT 80.00'

STA 297+40.00
 RT 35.00'

STA 297+40.00
 RT 80.00'

STA 298+00.00
 RT 35.00'

STA 298+00.00
 RT 80.00'

STA 300+35.00
 RT 35.00'

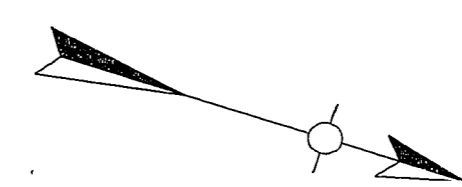
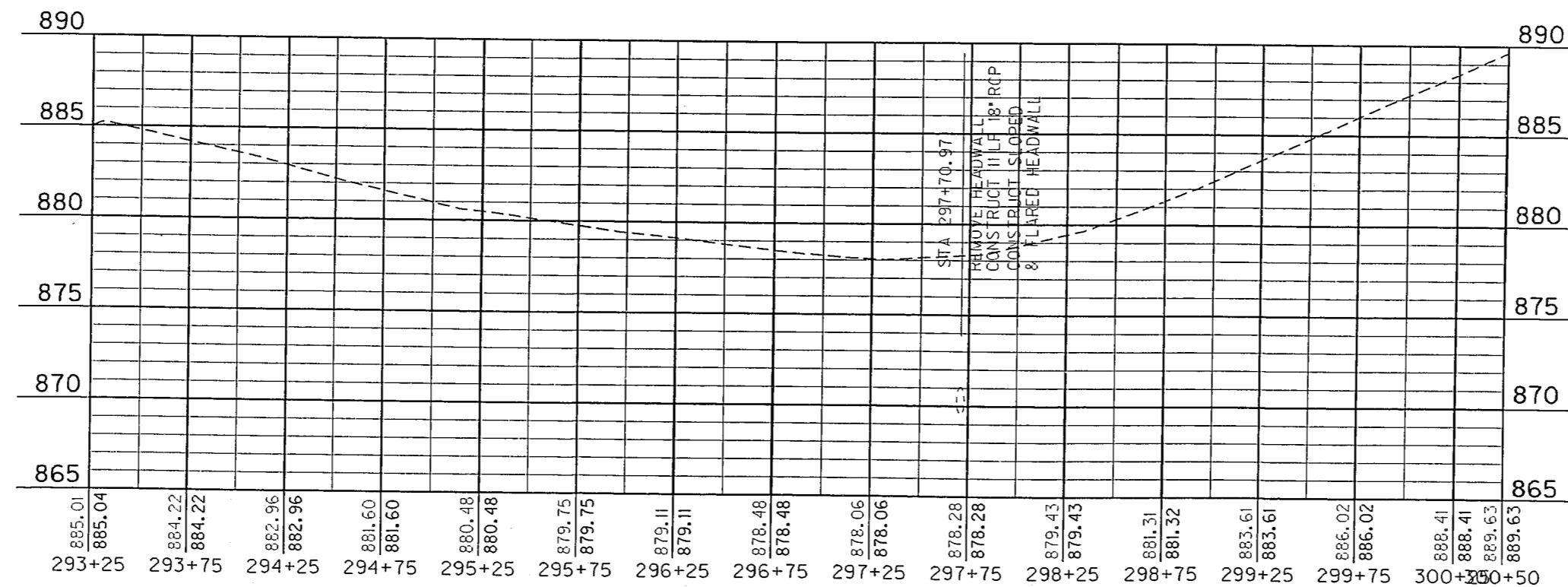
STA 300+35.00
 RT 80.00'

29
 Charles & Rita Brown
 Deed Book 836, Page 685

RT. STA 294+38 TO STA 299+62
 CONSTRUCT 140 LF OF TEMPORARY
 SILT FENCE.

CONST. RT. STA 298+05-300+41 V-BOTTOM
 DITCH WITH 210 TONS CLASS II CHANNEL LINING.

RT. STA 298+00 CONSTRUCT
 SILT CHECK TYPE II.



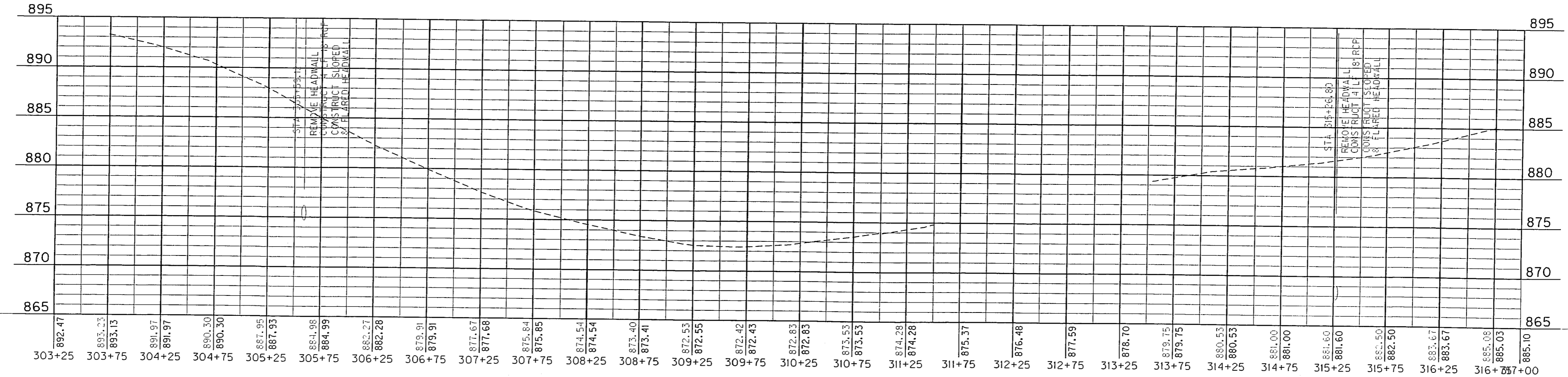
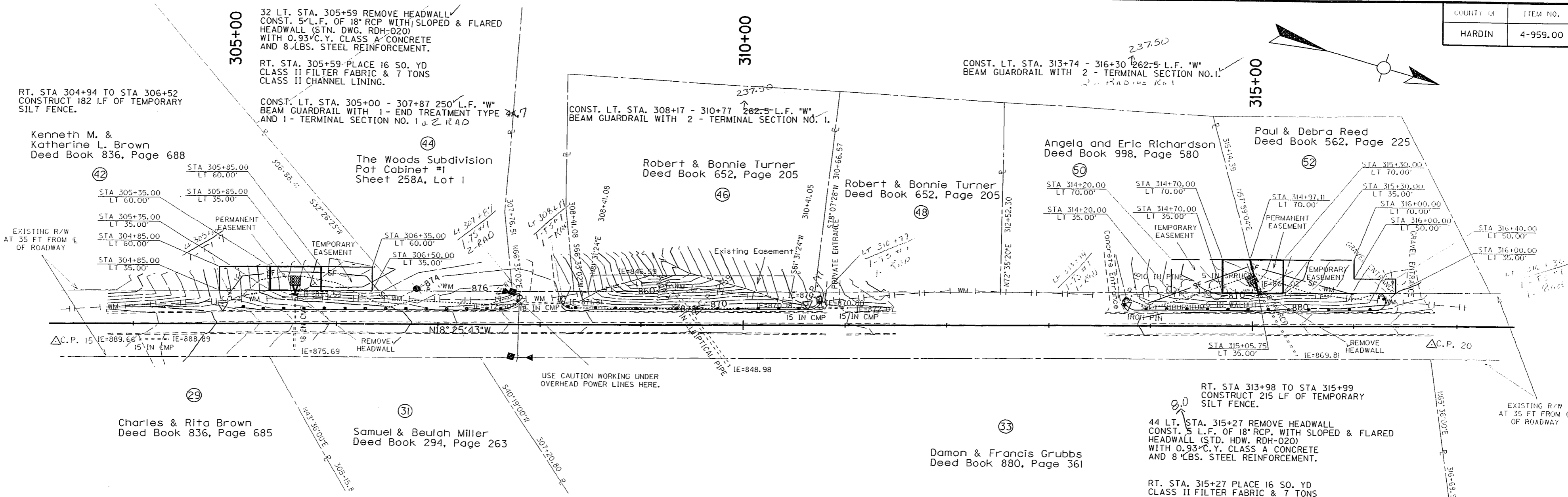
PREPARED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

Cell Library: KyTc.cel
 Cell Name: sp
 20-MAR-2003 11:29

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

KY HIGHWAY 251
 SPOT IMPROVEMENT
 MP 5.47

10

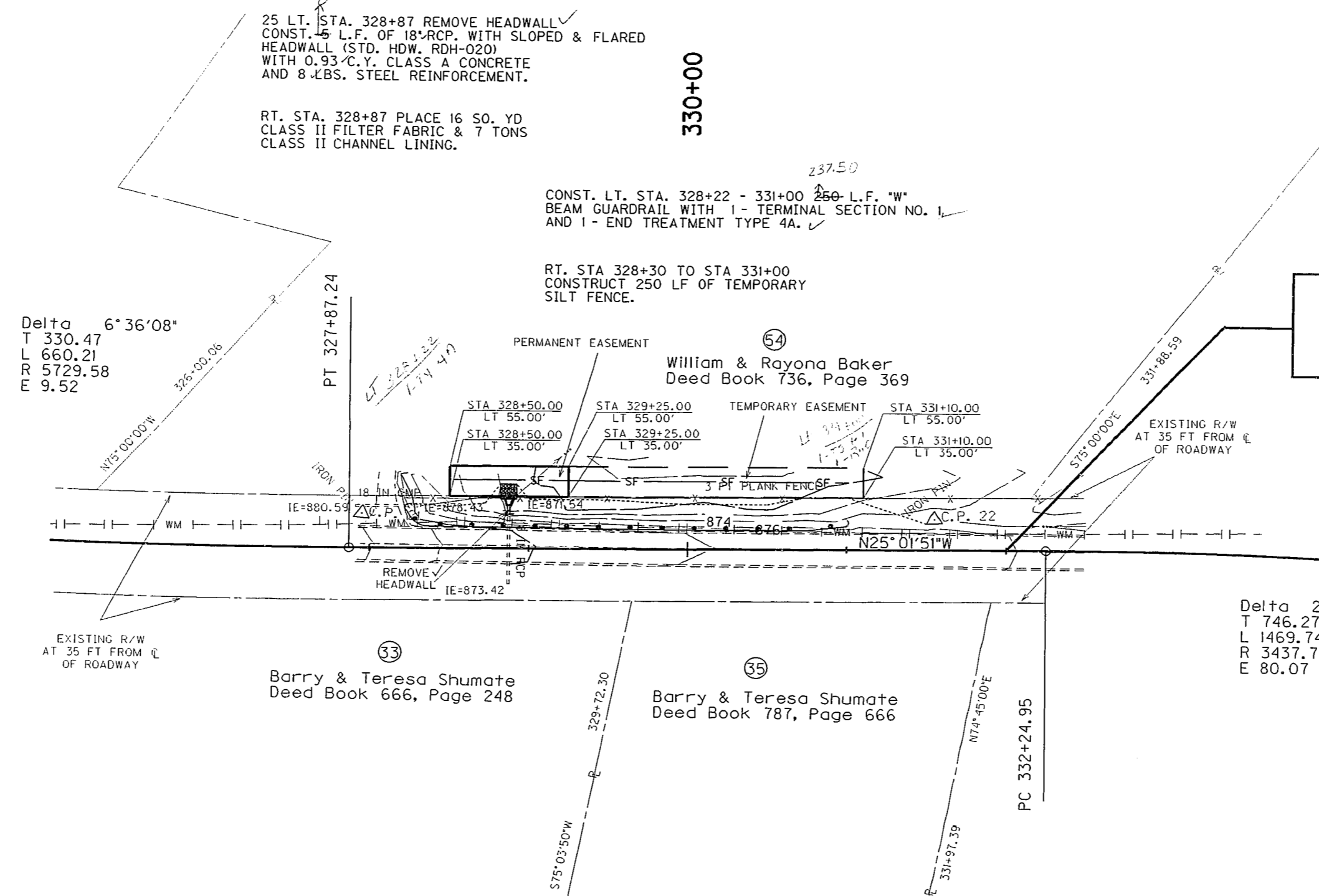
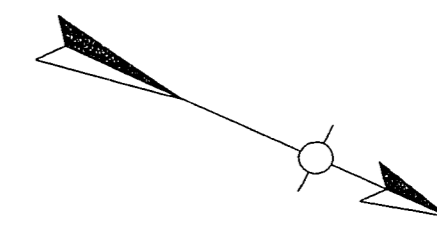


PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

Cell Library: k.ytc.cel
 Cell Name: sp
 21-MAR-2003 13:49

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

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-959.00	R10



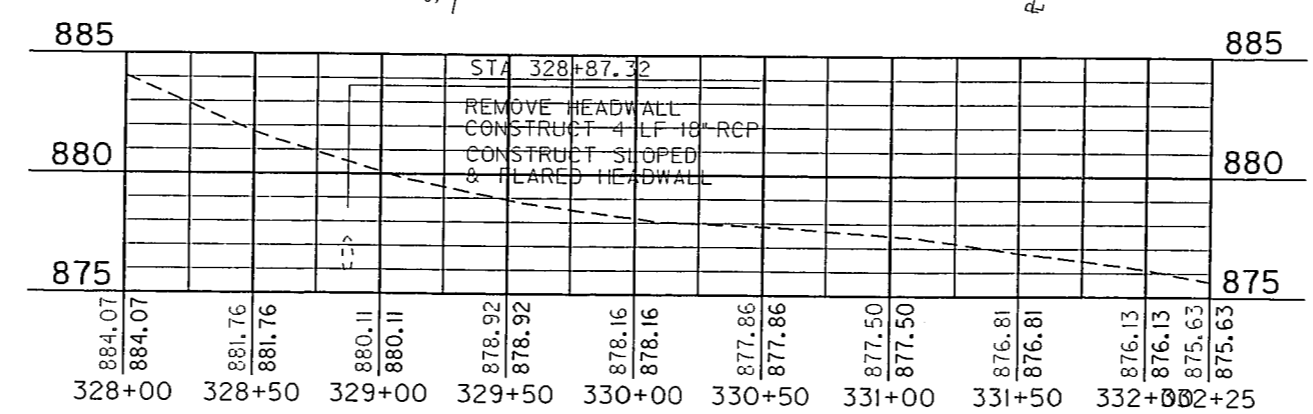
**STA 331+10 KY 251
END CONSTRUCTION**

Delta 6°36'08"
T 330.47
L 660.21
R 5729.58
E 9.52

Delta 24°29'44"
T 746.27
L 1469.74
R 3437.75
E 80.07

Barry & Teresa Shumate
Deed Book 666, Page 248

Barry & Teresa Shumate
Deed Book 787, Page 666



PREPARED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

Cell Library: kyt.cel
Cell Name: sp
20-MAR-2003 11:31

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

**KY HIGHWAY 251
SPOT IMPROVEMENT
MP 5.90**

12