F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8985	05-00001-03-PV (PHASE 3) 06-00001-04-BR (PHASE 4)	MADISON	61+2 63Total	1
MADISON COUNTY	ILLINOIS	FED. AID PROJECT		

CONTRACT No. 97343

THIS PROJECT IS LOCATED IN SECTIONS 27 AND 28, TOWNSHIP 6 NORTH, RANGE 10 WEST OF THE 3RD PRINCIPAL MERIDIAN, MADISON COUNTY, ILLINOIS

UTILITY LOCATION CAN BE OBTAINED BY CALLING J.U.L.I.E. (1-800-892-0123)

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE LIMITS OF THIS PROJECT WHICH MAY OR MAY NOT REQUIRE ADJUSTMENT OR RELOCATION:

TELEPHONE:
AT&T
203 GOETHE
COLLINSVILLE, ILLINOIS 62234
(618) 346-6400

GAS & ELECTRIC:
AMEREN U.E. COMPANY
700 OAKWOOD AVENUE
ALTON, ILLINOIS 62002
(618) 463-4043 GAS
(618) 463-4051 ELEC.

CABLE TELEVISION:
CHARTER COMMUNICATIONS
508 NIAGARA AVENUE
EAST ALTON, ILLINOIS 62024
(618) 251-2660

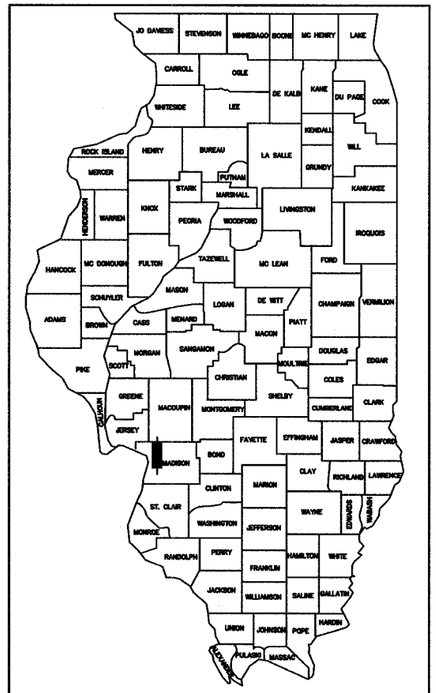
WATER:
ILLINOIS AMERICAN WATER CO.
4436 INDUSTRIAL DRIVE
ALTON, ILLINOIS 62002
(618) 466-2131

STORM SEWERS:
GODFREY PUBLIC WORKS DEPARTMENT
6212 GODFREY ROAD
GODFREY, ILLINOIS 62035
(618) 466-3133

SANITARY SEWERS:
GODFREY SEWER DEPARTMENT
4725 BRECHT LANE
GODFREY, ILLINOIS 62035
(618) 466-1030

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
F.A.U. ROUTE 8985 (PIERCE LANE - PHASE 3 AND 4)
VILLAGE OF GODFREY SECTION 05-00001-03-PV (PHASE 3)
VILLAGE OF GODFREY SECTION 06-00001-04-BR (PHASE 4)
MADISON COUNTY
PROJECT NO. BRM-M-5011 (207)
JOB NO. C-98-341-06



LOCATION OF SECTION INDICATED THUS: ■

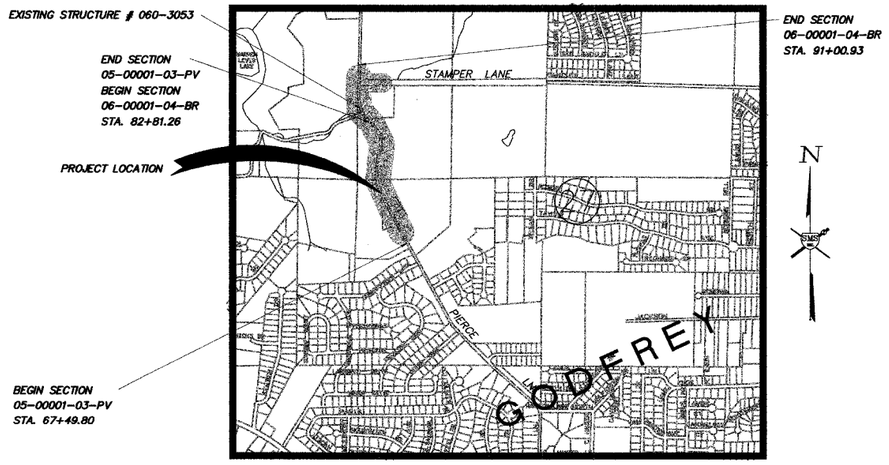
INDEX TO SHEETS

HIGHWAY STANDARDS

280001-04
420001-07
420111-02
420601-05
420701-02
424001-05
482011-03
515001-02
542301-01
542401
602301-01
602306-01
602401-01
602406-02
602601-01
602701-01
604006-03
604011-03
606001-03
606201-01
630001-07
630101-07
664001-01
665001-01
701901
720001
720006-01
720011
720021-01
780001-01
781001-02
B.L.R. 23-2

SCALES:

PLAN	1" = 20'	20' 0' 20' 40'
PROFILE VERTICAL	1" = 5'	5' 0' 5' 10'
PROFILE HORIZONTAL (PAVING PLANS)	1" = 20'	20' 0' 20' 40'
PROFILE HORIZONTAL (STORM SEWER PLANS)	1" = 20'	20' 0' 20' 40'
CROSS SECTION VERTICAL	1" = 5'	5' 0' 5' 10'
CROSS SECTION HORIZONTAL	1" = 5'	5' 0' 5' 10'



LOCATION MAP
SCALE: 1" = 1000'

TOTAL LENGTH OF PROJECT = 2,351 FT. = 0.445 MILES

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS
215 Market Street
Alton, Illinois 62002
618/462-9755
10 Central Industrial Dr
Northgate Center
Granite City, IL 62040
618/877-8700

ROADWAY CLASSIFICATION = TWS-2 (URBAN MINOR ARTERIAL)
DESIGN SPEED = 30 M.P.H. CURRENT TRAFFIC =2,235 A.D.T.
CONTRACT No. 97343 DESIGN TRAFFIC =2,750 S.D.T.

SCOTT J. WEINERT
062-059851
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

SHEETS 1-31, 33-61
DATED : APRIL 15, 2008
EXPIRES: NOVEMBER 30, 2009

APPROVED April 15 2008
Michael J. Campion
VILLAGE PRESIDENT, GODFREY

PASSED April 17 2008
DISTRICT 8 LOCAL ROADS AND STREETS ENGINEER

RELEASING FOR BID ON LIMITED REVIEW April 17 2008
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOB NO. 436613
SHEET 1 OF 61

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE J000 (PHASE 3)
CONSTRUCTION TYPE CODE X028-2A (PHASE 4)

	CODE	ITEM	UNIT	J000	X028-2A	TOTAL
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	514	37	551
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	449	24	473
	20100500	TREE REMOVAL, ACRES	ACRE	1	0.3	1.3
	20200100	EARTH EXCAVATION	CU YD	4800	1930	6730
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	750	750	1500
	20400800	FURNISHED EXCAVATION	CU YD	11110	9010	20120
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	0	2239	2239
	20800150	TRENCH BACKFILL	CU YD	561	340	901
*	25000115	SEEDING, CLASS 1B	ACRE	2.5	1.5	4.0
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	225	135	360
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	225	135	360
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	225	135	360
*	25000700	AGRICULTURAL GROUND LIMESTONE	TON	5	3	8
*	25100115	MULCH, METHOD 2	ACRE	2.5	1.5	4
*	25100630	EROSION CONTROL BLANKET	SQ YD	5500	1500	7000
*	25301500	TREES	EACH	135	20	155
	28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	100	100	200
*	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	350	200	550
	28000300	TEMPORARY DITCH CHECKS	EACH	0	18	18
	28000400	PERIMETER EROSION BARRIER	FOOT	640	0	640
	28000500	INLET AND PIPE PROTECTION	EACH	1	0	1
	28100107	STONE RIPRAP, CLASS A4	SQ YD	370	100	470
	28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	0	710	710
	28200200	FILTER FABRIC	SQ YD	370	810	1180
	30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	5400	2750	8150
	30201500	LIME	TON	205	105	310
	31100700	SUB-BASE GRANULAR MATERIAL, TYPE A 8"	SQ YD	0	270	270
	35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	5400	2750	8150
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	0	110	110
	35600704	HOT-MIX ASPHALT BASE COURSE WIDENING, 7"	SQ YD	0	205	205
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	85	0	85
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	1250	350	1600
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	0	210	210
	40600300	AGGREGATE (PRIME COAT)	TON	0	3	3
	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	0	105	105
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	0	130	130
	40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	0	130	130
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	110	30	140
	42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	4500	2300	6800
	42001200	PAVEMENT FABRIC	SQ YD	4500	2300	6800
	42001300	PROTECTIVE COAT	SQ YD	5550	2800	8350
	42001700	FURNISH PROFILOGRAPH	L SUM	0.5	0.5	1
	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	305	0	305
	42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	6040	3000	9040
	44000100	PAVEMENT REMOVAL	SQ YD	2045	810	2855
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	0	65	65
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	243	165	408
	44000600	SIDEWALK REMOVAL	SQ FT	105	0	105
	44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	0	525	525
	48203013	HOT-MIX ASPHALT SHOULDERS, 4"	SQ YD	0	140	140
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	0	1	1
	50105200	REMOVE EXISTING CULVERTS	EACH	5	1	6
	50200100	STRUCTURE EXCAVATION	CU YD	0	3680	3680
	50300225	CONCRETE STRUCTURE	CU YD	0	350	350
	50800105	REINFORCEMENT BARS	POUND	0	36700	36700
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	0	6830	6830
	51500100	NAME PLATES	EACH	0	1	1
	54213450	END SECTIONS 15"	EACH	0	1	1
	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	0	1	1
	54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	2	0	2
	550B0070	STORM SEWERS, CLASS B, TYPE 1 15"	FOOT	0	110	110
	55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	567	408	975

	CODE	ITEM	UNIT	J000	X028-2A	TOTAL
	55019600	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 15"	FOOT	30	0	30
	55019800	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 21"	FOOT	44	0	44
	55019900	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 24"	FOOT	203	41	244
	55020100	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 30"	FOOT	0	372	372
	55021600	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12"	FOOT	226	0	226
	55021700	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 15"	FOOT	139	0	139
	55022200	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 30"	FOOT	0	51	51
	55022500	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 42"	FOOT	130	0	130
	60107600	PIPE UNDERDRAINS 4"	FOOT	640	0	640
	60221200	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	0	1	1
	60223810	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	0	1	1
	60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	0	1	1
	60246540	INLET BOX, SPECIAL	EACH	1	0	1
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	0	1	1
	60602800	CONCRETE GUTTER, TYPE B	FOOT	0	105	105
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	3100	1850	4950
*	63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	0	69	69
*	63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	0	78	78
*	63100041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	0	4	4
	63200310	GUARDRAIL REMOVAL	FOOT	0	200	200
	66400105	CHAIN LINK FENCE, 4'	FOOT	140	0	140
	66400525	CHAIN LINK FENCE, 4' ATTACHED TO STRUCTURE	FOOT	455	0	455
	66500105	WOVEN WIRE FENCE, 4'	FOOT	370	0	370
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	18
	67100100	MOBILIZATION	L SUM	0.5	0.5	1
	70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	0.5	0.5	1
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	310	240	550
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	105	85	190
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	0	1090	1090
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	3100	1400	4500
*	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	0	25	25
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	31	13	44
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	0	8	8
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	0	4	4
	X0321905	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	402	30	432
	X0321907	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	31	0	31
	X0322923	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	2640	0	2640
	X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	6	8	14
	X6020075	INLETS, TYPE B, TYPE 3V FRAME AND GRATE	EACH	14	5	19
	XX000501	SUBGRADE STRENGTHENING AGGREGATE	TON	1500	1500	3000
	XX000541	EXPLORATORY EXCAVATION	CU YD	250	250	500
	XX000610	RELOCATE EXISTING MAILBOX	EACH	6	0	6
	XX001875	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	0	3	3
	XX002154	MANHOLE, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	2	0	2
	XX002155	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	2	0	2
	XX002998	RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	8	0	8
	XX005473	STORM SEWERS TYPE 1 WATER MAIN QUALITY PIPE 30"	FOOT	0	72	72
	XX006440	RESTRICTED DEPTH MANHOLE 5' DIA TYPE 3V FRAME & GRATE	EACH	0	2	2
	XZ127900	RETAINING WALL REMOVAL	FOOT	155	0	155
	Z0012450	CONCRETE STEPS	CU YD	1	0	1
	Z0018900	DRILL AND GROUT DOWEL BARS	EACH	26	0	26
	Z0022800	FENCE REMOVAL	FOOT	880	550	1430
	XX007033	3-SIDED PRECAST STRUCTURE 32' X 12'	FOOT	0	96	96

* - *DENOTES SPECIALTY ITEM PER ARTICLE 108.01 OF STANDARD SPECIFICATIONS*

HMA MIXTURE TABLE	SURFACE	BINDER	BASE	LEVELING	SHOULDER	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 64-22
RAP % (MAX)	10%	25%	25%	10%	25%	10%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	2.0% @ Ndes=30	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0	IL 19.0	IL 9.5		IL 9.5
FRICTION AGG	MIXTURE C	MIXTURE B	MIXTURE B	MIXTURE C	BAM	MIXTURE C

GENERAL NOTES

1. THIS IMPROVEMENT SHALL BE CONSTRUCTED ACCORDING TO WITH THE I.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.

2. INFORMATION ON THE PLANS REGARDING UTILITIES IS TAKEN FROM THE BEST AVAILABLE RECORDS, BUT IS NOT REPRESENTED AS BEING CORRECT OR COMPLETE. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. IN ADVANCE OF CROSSING OVER OR UNDER UTILITIES.

3. THE CONTRACTOR SHALL USE ALL DUE PRECAUTION NOT TO DAMAGE OR DISTURB UTILITIES. THE ENTIRE COST OF MAKING REPAIRS TO, OR REPLACEMENT OF, ANY DAMAGED LINE WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

4. ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL.

5. STORM SEWER LENGTHS SHOWN ON THE PLANS ARE FROM CENTER TO CENTER OF STRUCTURES. MEASUREMENT FOR PAYMENT PURPOSES SHALL BE ACCORDING TO ARTICLE 550.09 OF THE STANDARD SPECIFICATIONS.

6. THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS SHOWN ON THE PLANS PRIOR TO FABRICATION OF DRAINAGE STRUCTURES.

7. ALL PROPOSED INLETS AND MANHOLES LABELED AS TYPE 3 OR TYPE 3V SHALL BE CONSTRUCTED WITH A TYPE 3 OR TYPE 3V FRAME AND GRATE, AS LABELED, IN ACCORDANCE WITH HIGHWAY STANDARD 604006 OR 604011 EXCEPT THE CURB BOX FURNISHED WITH THE FRAME AND GRATE SHALL HAVE AN OPEN MOUTH FREE OF ANY METAL GRATING OR RESTRICTION.

8. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY THE ENGINEER TO CONTROL EROSION AND SEDIMENT DAMAGE TO ADJACENT PROPERTIES AND WATER RESOURCES. THIS WORK SHALL BE PERFORMED ACCORDING TO SECTION 280 OF THE STANDARD SPECIFICATIONS, HIGHWAY STANDARD 280001, THE EROSION CONTROL PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN.

9. ALL EXCAVATIONS SHALL BE PROTECTED, IF NOT BACKFILLED THE SAME DAY, BY BARRICADES & APPROPRIATE LIGHTS. COSTS FOR PROVIDING ABOVE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION.

10. COMBINATION CONCRETE CURB AND GUTTER MAY NOT BE CONSTRUCTED MONOLITHICALLY WITH THE PORTLAND CEMENT CONCRETE PAVEMENT.

11. PAVEMENT FABRIC SHALL BE TYPE A AS SHOWN ON HIGHWAY STANDARD 420701. PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PAVEMENT FABRIC.

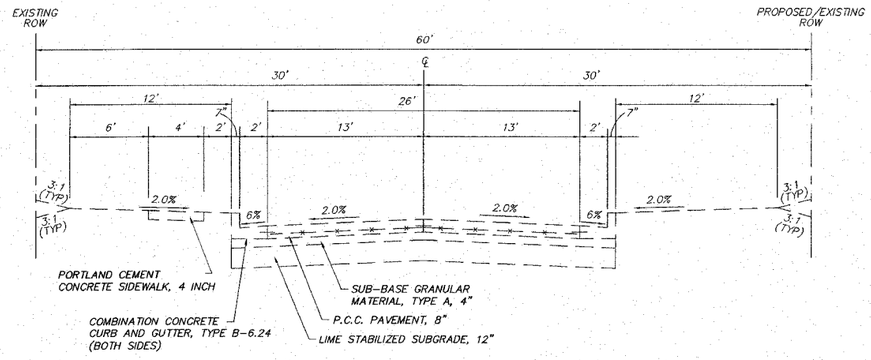
CONTRACT 97343

REVISIONS

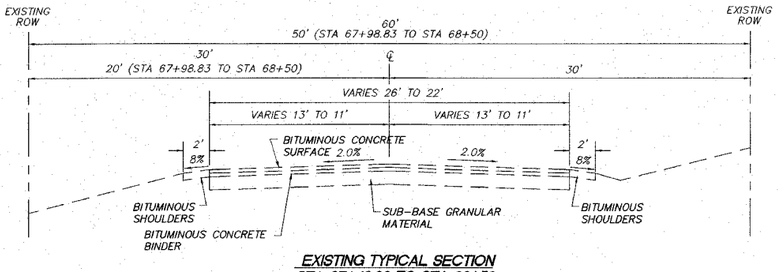
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-8755 E-mail: matt@smsengineers.com
10 Central Industrial Drive, Glenlee City, IL 62040 618/931-8700 E-mail: matt@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
SUMMARY OF QUANTITIES AND GENERAL NOTES

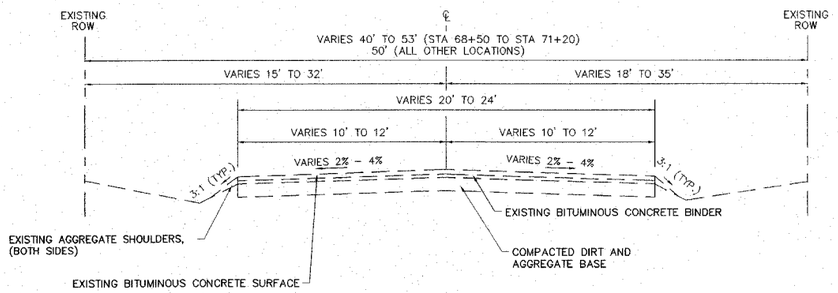
DWG. NO. PRC PH3 GEN NOTE.DWG
REF. BK, PG.
JOB NO. 436613
DSN. BY: SJW/DDT
DWN. BY: DCS
CHK. BY: SJW
DATE: FEBRUARY, 2008
SCALE: N.T.S.
SHEET 2 OF 61



EXISTING TYPICAL SECTION
STA 67+49.80

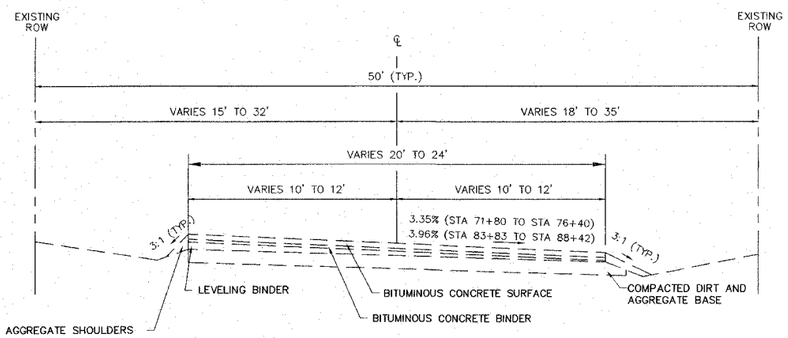


EXISTING TYPICAL SECTION
STA 67+49.80 TO STA 68+50

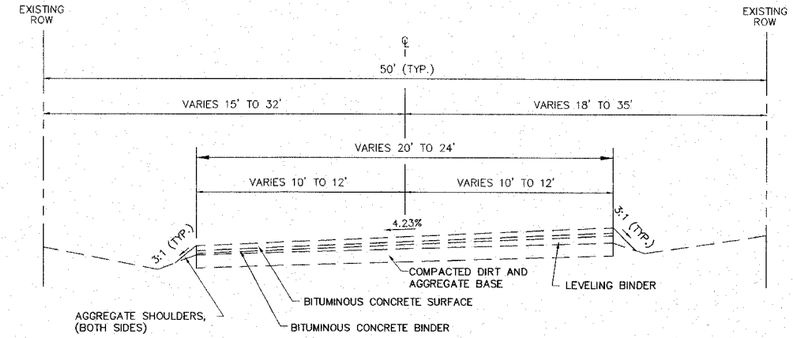


EXISTING TYPICAL SECTION
STA 68+50 TO STA 71+80
STA 76+40 TO STA 78+43
****STA 82+48 TO STA 83+83***
STA 88+42 TO STA 88+83

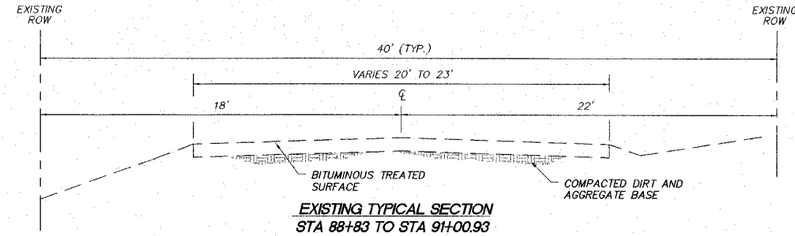
*OMIT THE EXISTING BRIDGE FROM STA 83+38 TO STA 83+65



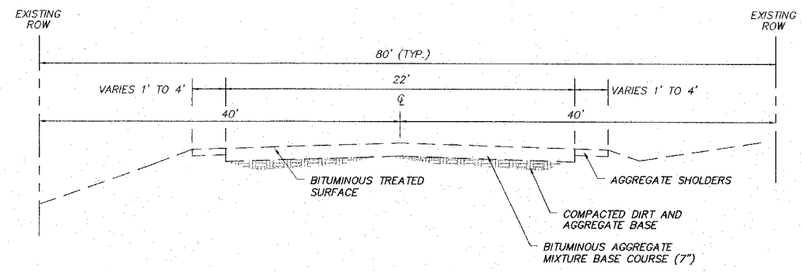
EXISTING TYPICAL SECTION
STA 71+80 TO STA 76+40
STA 83+83 TO STA 88+42



EXISTING TYPICAL SECTION
STA 78+43 TO STA 82+48



EXISTING TYPICAL SECTION
STA 88+83 TO STA 91+00.93



EXISTING TYPICAL SECTION
STAMPER LANE

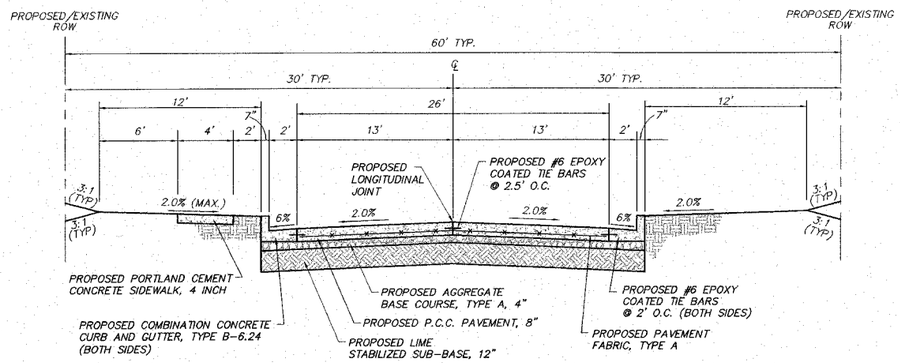
CONTRACT 97343

REVISIONS

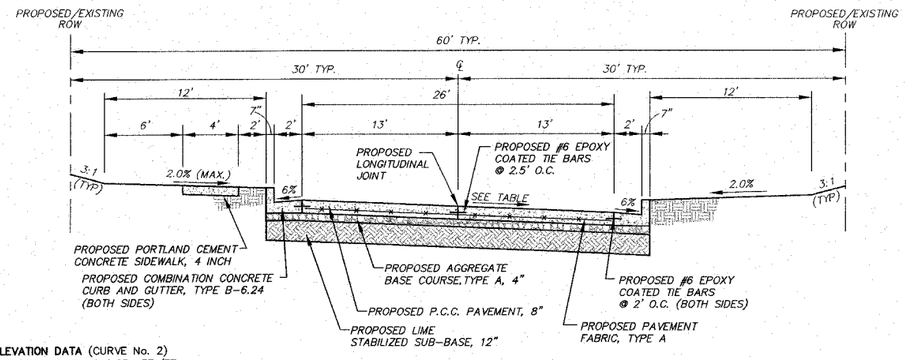
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
EXISTING TYPICAL SECTIONS

DWG. NO.	PRC PH3 TYP SECTIONS.DWG
REF. BK.	PG.
JOB NO.	4.36613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	N.T.S.
SHEET	3 OF 61

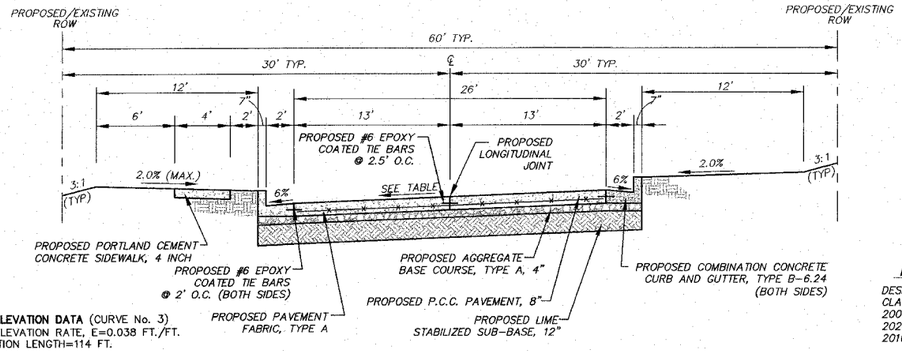


PROPOSED TYPICAL SECTION
STA 67+49.80 TO STA 71+97.88
STA 77+75.61 TO STA 77+86.14
STA 83+70.26 TO STA 84+03.19
STA 88+80.86 TO STA 89+95.93



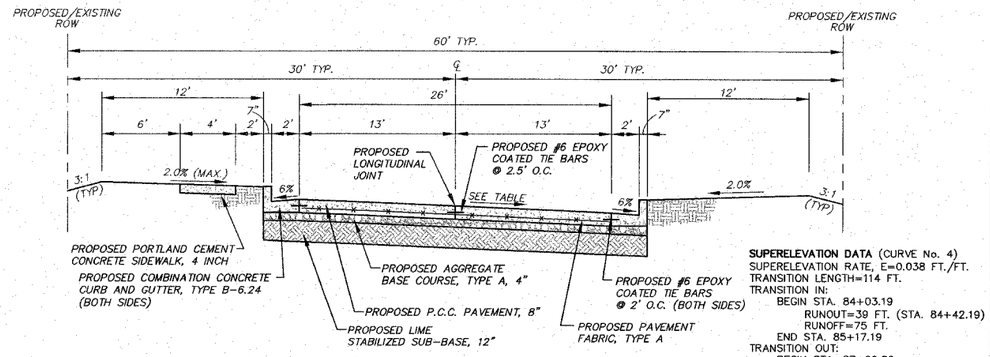
SUPERELEVATION DATA (CURVE No. 2)
SUPERELEVATION RATE, E=0.034 FT./FT.
TRANSITION LENGTH=106 FT.
TRANSITION IN:
BEGIN STA. 71+97.88
RUNOUT=39 FT. (STA. 72+36.88)
RUNOFF=67 FT.
END STA. 73+03.88
TRANSITION OUT:
BEGIN STA. 76+69.61
RUNOFF=67 FT. (STA. 77+36.61)
RUNOUT=39 FT.
END STA. 77+75.61

PROPOSED TYPICAL SECTION
STA 71+97.88 TO STA 77+75.61



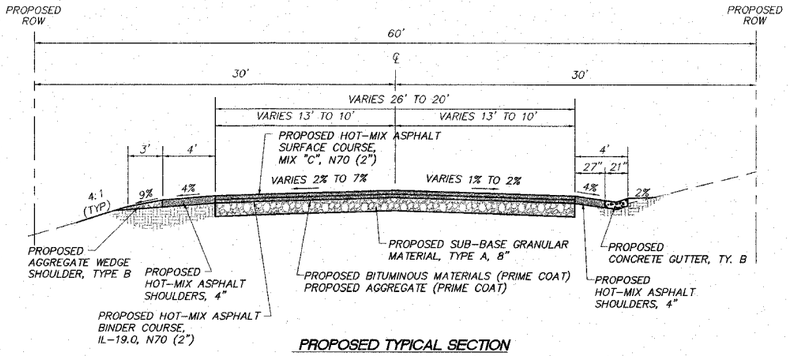
SUPERELEVATION DATA (CURVE No. 3)
SUPERELEVATION RATE, E=0.038 FT./FT.
TRANSITION LENGTH=114 FT.
TRANSITION IN:
BEGIN STA. 77+86.14
RUNOUT=39 FT. (STA. 78+25.14)
RUNOFF=75 FT.
END STA. 79+00.14
TRANSITION OUT:
BEGIN STA. 82+56.26
RUNOFF=75 FT. (STA. 83+31.26)
RUNOUT=39 FT.
END STA. 83+70.26

PROPOSED TYPICAL SECTION
STA 77+86.14 TO STA 83+70.26

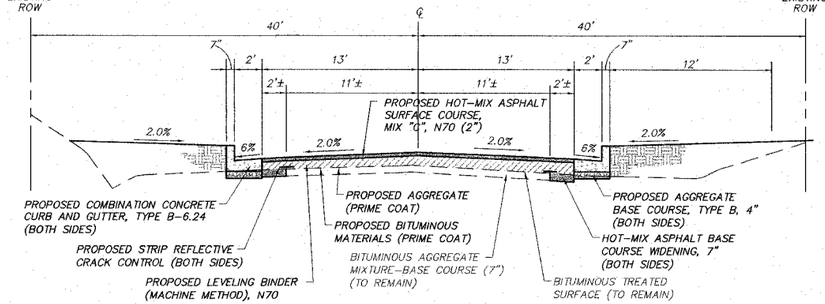


SUPERELEVATION DATA (CURVE No. 4)
SUPERELEVATION RATE, E=0.038 FT./FT.
TRANSITION LENGTH=114 FT.
TRANSITION IN:
BEGIN STA. 84+03.19
RUNOUT=39 FT. (STA. 84+42.19)
RUNOFF=75 FT.
END STA. 85+17.19
TRANSITION OUT:
BEGIN STA. 87+66.86
RUNOFF=75 FT. (STA. 88+41.86)
RUNOUT=39 FT.
END STA. 88+80.86

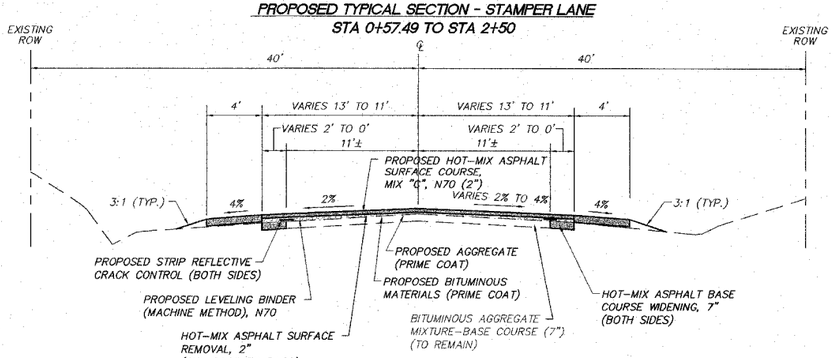
PROPOSED TYPICAL SECTION
STA 84+03.19 TO STA 88+80.86



PROPOSED TYPICAL SECTION
STA 89+95.93 TO STA 91+00.93



PROPOSED TYPICAL SECTION - STAMPER LANE
STA 0+57.49 TO STA 2+50



PROPOSED TYPICAL SECTION - STAMPER LANE
STA 2+50 TO STA 3+20

PAVEMENT DESIGN DATA

DESIGN SPEED = 30 M.P.H.
CLASS II STREET
2006 AVERAGE DAILY TRAFFIC (A.D.T.) = 2,235
2026 AVERAGE DAILY TRAFFIC (A.D.T.) = 2,750
2016 STRUCTURAL DESIGN TRAFFIC (S.D.T.) = 2,495
PASSENGER VEHICLES (P.V.) = 2,320 (93%)
SINGLE UNITS (S.U.) = 125 (5%)
MULTIPLE UNITS (M.U.) = 50 (2%)
MODIFIED AASHTO DESIGN
TRAFFIC FACTOR (18-KIP E.S.A.L.) = 0.70
ILLINOIS BEARING RATIO (I.B.R.) = 2
PROPOSED PAVEMENT MATERIALS:
P.C.C. PAVEMENT, 8" (15' NOMINAL TRANSVERSE JOINT SPACING)

PAVEMENT FABRIC, TYPE A
AGGREGATE BASE COURSE, TYPE A, 4"

CONTRACT 97343

REVISIONS

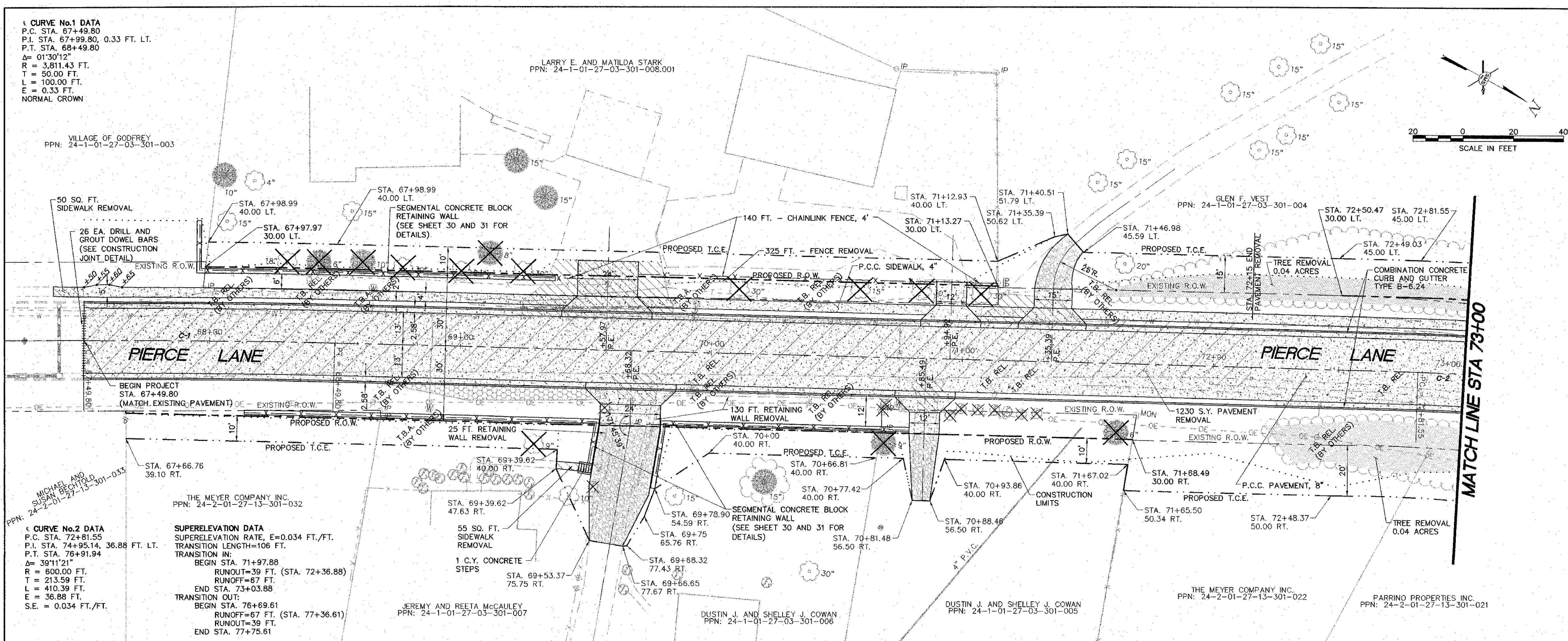
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PROPOSED TYPICAL SECTIONS

DWG. NO.	PRC PH3 TYP SECTIONS.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	N.T.S.
SHEET	4 OF 61

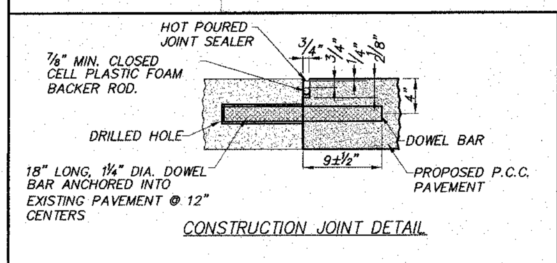
CONTRACT 97343

℄ CURVE No.1 DATA
P.C. STA. 67+49.80
P.I. STA. 67+99.80, 0.33 FT. LT.
P.T. STA. 68+49.80
Δ= 01°30'12"
R = 3,811.43 FT.
T = 50.00 FT.
L = 100.00 FT.
E = 0.33 FT.
NORMAL CROWN

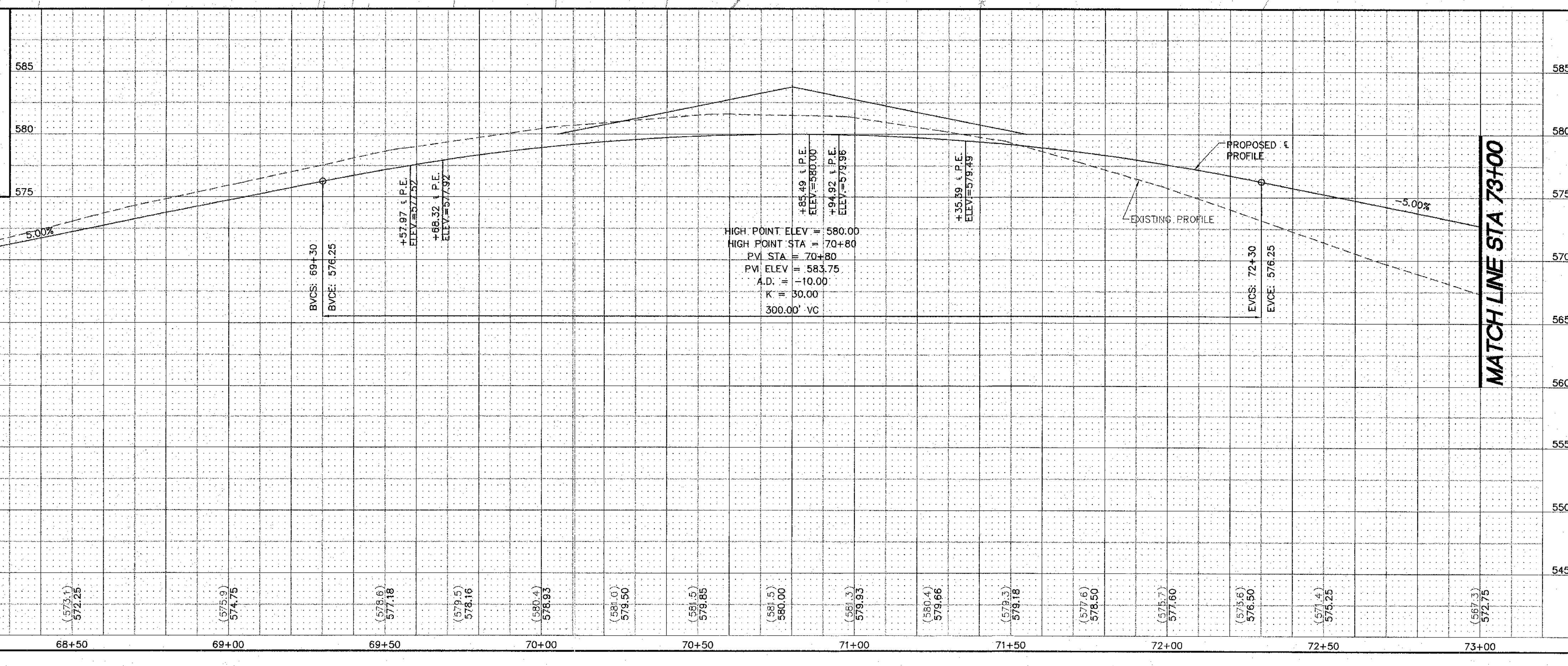


℄ CURVE No.2 DATA
P.C. STA. 72+81.55
P.I. STA. 74+95.14, 36.88 FT. LT.
P.T. STA. 76+91.94
Δ= 39°11'21"
R = 600.00 FT.
T = 213.59 FT.
L = 410.39 FT.
E = 36.88 FT.
S.E. = 0.034 FT./FT.

SUPERELEVATION DATA
SUPERELEVATION RATE, E=0.034 FT./FT.
TRANSITION LENGTH=106 FT.
TRANSITION IN:
BEGIN STA. 71+97.88
RUNOUT=39 FT. (STA. 72+36.88)
RUNOFF=67 FT.
END STA. 73+03.88
TRANSITION OUT:
BEGIN STA. 76+69.61
RUNOFF=67 FT. (STA. 77+36.61)
RUNOUT=39 FT.
END STA. 77+75.61



CONSTRUCTION JOINT DETAIL



Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com
SMS ENGINEERS

REVISIONS

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - PAVING PLAN

DWG. NO.	PRC PH3 ROAD PP.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	5 OF 61

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
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10 Centre Industrial Drive, Granite City, IL 62040 618/877-6700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - PAVING PLAN

MATCH LINE STA 73+00

MATCH LINE STA 78+00

PIERCE LANE

GLEN F. VEST
PPN: 24-1-01-27-03-301-004

EDWARD N. AND MARSHA G. ESTES
PPN: 24-1-01-27-00-000-007.001

MAURICE W. AND LA VERNE W. ESTES
PPN: 24-1-01-27-00-000-007

PARRINO PROPERTIES INC.
PPN: 24-2-01-27-13-301-021

BARBARA A. ALBERT
AND BRIAN S. CAMPBELL
PPN: 24-1-01-27-00-000-006

TREE REMOVAL
0.11 ACRES

TREE REMOVAL
0.38 ACRES

145 S.Y. PAVEMENT REMOVAL

CONSTRUCTION LIMITS

PROPOSED R.O.W.

EXISTING R.O.W.

PROPOSED T.C.E.

PROPOSED P.D.E.

T.B. REL

T.B. REL (BY OTHERS)

P.C.C. SIDEWALK, 4"

P.C.C. PAVEMENT, 8"

COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24

STA. 74+00.09 45.00 LT.
STA. 74+14.23 83.84 LT.
STA. 74+09.21 80.57 LT.
STA. 74+01.65 74.99 LT.
STA. 74+25.22 46.97 LT.
STA. 74+33.98 58.55 LT.
STA. 74+44.95 30.00 LT.
STA. 74+31.10 70.95 LT.
STA. 74+37.10 67.67 LT.
STA. 74+58.77 53.61 LT.
STA. 74+54.19 63.67 LT.
STA. 74+68.77 30.00 LT.
STA. 74+75 55.02 LT.
STA. 74+77 54.17 LT.
STA. 74+99.70 60.43 LT.
STA. 75+00 60.69 LT.
STA. 75+19.47 102.68 LT.
STA. 75+27.66 98.84 LT.
STA. 75+49.02 45.00 LT.
STA. 74+91.52 30.00 RT.
STA. 74+89.35 50.00 RT.
STA. 74+89.29 50.53 RT.
STA. 74+57.90 50.91 RT.
STA. 74+50 57.65 RT.
STA. 74+36.05 51.08 RT.
STA. 76+16.70 50.00 RT.
STA. 76+25 57.98 RT.
STA. 76+50 107.53 RT.
STA. 76+77.68 50.00 RT.
STA. 77+11.45 50.00 RT.
STA. 76+75 53.48 RT.
STA. 77+50 85.66 RT.
STA. 77+64.51 93.84 RT.
STA. 77+83 101.75 RT.
STA. 78+00 104.19 RT.
STA. 77+48.53 103.96 LT.
STA. 77+24.26 74.44 LT.
STA. 77+00.07 45.00 LT.
STA. 77+00.24 45.21 LT.
STA. 77+23.24 30.00 LT.
STA. 77+62.35 105.82 LT.
STA. 77+73.69 76.57 LT.
STA. 77+79.82 50.00 LT.

℄ CURVE No.2 DATA
P.C. STA. 72+81.55
P.I. STA. 74+95.14, 36.88 FT. LT.
P.T. STA. 76+91.94
Δ= 39°11'21"
R = 600.00 FT.
T = 213.59 FT.
L = 410.39 FT.
E = 36.88 FT.
S.E. = 0.034 FT./FT.

SUPERELEVATION DATA
SUPERELEVATION RATE, E=0.034 FT./FT.
TRANSITION LENGTH=106 FT.
TRANSITION IN:
BEGIN STA. 71+97.88
RUNOUT=39 FT. (STA. 72+36.88)
RUNOFF=67 FT.
END STA. 73+03.88
TRANSITION OUT:
BEGIN STA. 76+69.61
RUNOFF=67 FT. (STA. 77+36.61)
RUNOUT=39 FT.
END STA. 77+75.61

SCALE IN FEET
20 0 20 40

MATCH LINE STA 73+00

MATCH LINE STA 78+00

EXISTING PROFILE

PROPOSED ℄ PROFILE

-5.00%

+20.16 ℄ P.E.
ELEV.=561.74

+64.51 ℄ P.E.
ELEV.=548.77

PVI STA = 78+00
PVI ELEV = 547.75
A.D. = 4.00
K = 40.00
160.00' VC

BVCS. 77+20
BVCE. 551.75

(557.7) 572.75
(563.6) 570.25
(560.2) 567.75
(557.3) 565.25
(555.1) 562.75
(553.4) 560.25
(551.9) 557.75
(550.2) 555.25
(548.6) 552.75
(548.1) 551.50
(547.4) 550.36
(546.7) 549.38
(546.2) 548.65

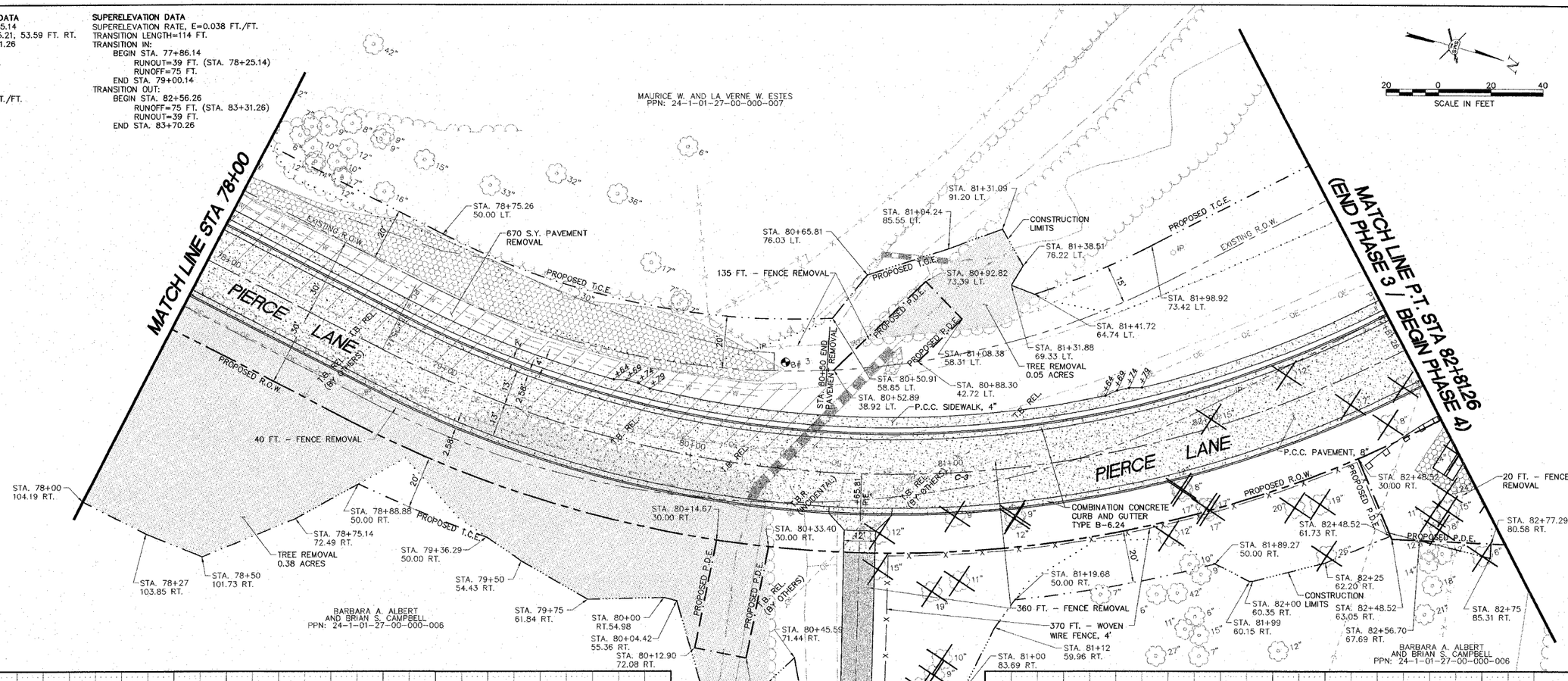
580 575 570 565 560 555 550 545

73+00 73+50 74+00 74+50 75+00 75+50 76+00 76+50 77+00 77+50 78+00

DWG. NO.	PRC PH3 ROAD PP.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	6 OF 61

℄ CURVE No.3 DATA
P.C. STA. 78+75.14
P.I. STA. 80+95.21, 53.59 FT. RT.
P.T. STA. 82+81.26
Δ= 54°45'00"
R = 425.00 FT.
T = 220.06 FT.
L = 406.12 FT.
E = 53.59 FT.
S.E. = 0.038 FT./FT.

SUPERELEVATION DATA
SUPERELEVATION RATE, E=0.038 FT./FT.
TRANSITION LENGTH=114 FT.
TRANSITION IN:
BEGIN STA. 77+86.14
RUNOUT=39 FT. (STA. 78+25.14)
RUNOFF=75 FT.
END STA. 79+00.14
TRANSITION OUT:
BEGIN STA. 82+56.26
RUNOFF=75 FT. (STA. 83+31.26)
RUNOUT=39 FT.
END STA. 83+70.26



CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-5755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - PAVING PLAN

DWG. NO.	PRC PH3 ROAD PP.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	7 OF 61

CONTRACT 97343

REVISIONS

SMS ENGINEERS
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CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-9700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - PAVING PLAN

MAURICE W. AND LA VERNE W. ESTES
PPN: 24-1-01-27-00-000-007

GODFREY FAIRWAYS INC.
PPN: 24-1-01-28-00-000-007

McNICHOLAS CLUB
PPN: 24-1-01-27-00-000-006.002

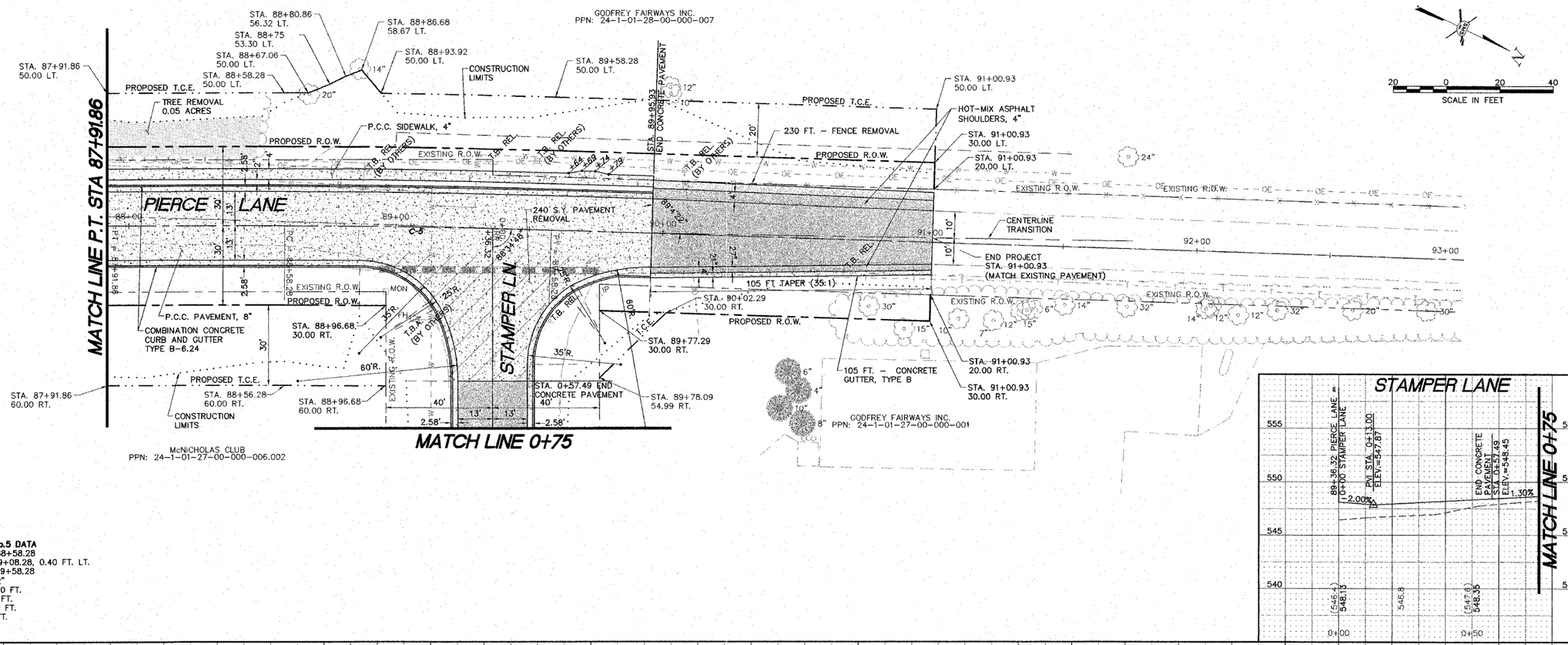
SCALE IN FEET: 20 0 20 40

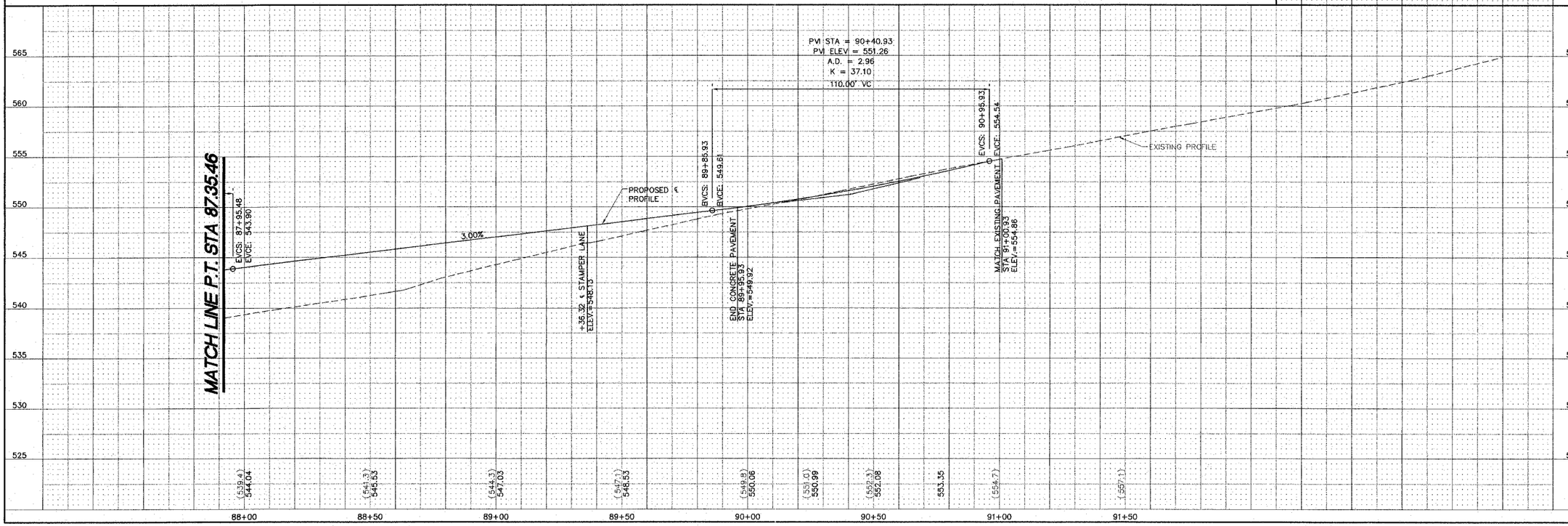
STA. 83+49.01 103.92 LT.
STA. 83+50 107.56 LT.
STA. 83+78.49 86.90 LT.
STA. 83+90.44 80.00 LT.
STA. 84+39.40 80.00 LT.
TREE REMOVAL 0.05 ACRES
STA. 84+89.69 77.36 LT.
STA. 83+41.70 108.14 LT.
STA. 83+25.45 80.00 LT.
STA. 83+16.79 65.00 LT.
STA. 85+00 BEGIN PAVEMENT REMOVAL
PROPOSED P.O.E.
PROPOSED T.C.E.
PROPOSED R.O.E.
540 S.Y. PAVEMENT REMOVAL
STA. 84+16.42 62.00 LT.
100 FT. – GUARDRAIL REMOVAL
EXISTING R.O.W.
T.B.R. (INCIDENTAL)
STA. 85+50 END PAVEMENT REMOVAL
T.B. REL.
CONSTRUCTION LIMITS
STA. 86+90 43.16 LT.
STA. 86+75 42.55 LT.
STA. 86+25.70 44.93 LT.
STA. 86+50 43.99 LT.
STA. 87+00 42.88 LT.
STA. 87+25 40.09 LT.
STA. 87+27.75 39.90 LT.
STA. 87+27.75 50.00 LT.
STA. 87+27.75 30.00 LT.
STA. 87+91.86 50.00 LT.
P.C.C. SIDEWALK, 4"
P.C.C. PAVEMENT, 8"
TREE REMOVAL 0.05 ACRES
PROPOSED R.O.W.
T.B. REL. (BY OTHERS)
T.L.S. REMOVAL OF EXISTING STRUCTURE
COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
220 FT. – FENCE REMOVAL
PIERCE LANE
MATCH LINE P.T. STA 87+91.86
MATCH LINE P.T. STA 82+81.26 (END PHASE 3 / BEGIN PHASE 4)
M.H. T.B. RECONSTRUCTED
EXIST. TOP ELEV.=531.0±
PROPOSED TOP ELEV.=542.54
℄ BRIDGE STA. 83+37
244 FT. – STEEL PLATE BEAM GUARDRAIL, TYPE A
STA. 83+77.41 30.00 RT.
STA. 84+00 64.10 RT.
STA. 84+58.94 60.00 RT.
STA. 84+92.19 60.00 RT.
STA. 84+50 60.97 RT.
STA. 87+07.19 60.00 RT.
STA. 87+25 69.11 RT.
STA. 87+80.18 60.00 RT.
STA. 87+50 67.33 RT.
STA. 87+66.86 63.44 RT.
STA. 87+75 61.34 RT.
STA. 87+91.86 60.00 RT.
100 FT. – FENCE REMOVAL
STA. 83+60.65 59.04 RT.
STA. 83+88 57.22 RT.
TREE REMOVAL 0.12 ACRES
STA. 83+30.30 111.60 RT.

℄ CURVE No.4 DATA
P.C. STA. 84+92.19
P.I. STA. 86+48.56, 27.85 FT. LT.
P.T. STA. 87+91.86
Δ= 40°24'00"
R = 425.00 FT.
T = 156.37 FT.
L = 299.67 FT.
E = 27.85 FT.
S.E. = 0.038 FT./FT.

SUPERELEVATION DATA
SUPERELEVATION RATE, E=0.038 FT./FT.
TRANSITION LENGTH=114 FT.
TRANSITION IN:
BEGIN STA. 84+03.19
RUNOUT=39 FT. (STA. 84+42.19)
RUNOFF=75 FT.
END STA. 85+17.19
TRANSITION OUT:
BEGIN STA. 87+66.86
RUNOFF=75 FT. (STA. 88+41.86)
RUNOUT=39 FT.
END STA. 88+80.86

DWG. NO.	PRC PH3 ROAD PP.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DOT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	8 OF 61





℄ CURVE No.5 DATA
P.C. STA. 88+58.28
P.I. STA. 89+08.28, 0.40 FT. LT.
P.T. STA. 89+58.28
Δ= 01°50'12"
R = 3119.60 FT.
T = 50.00 FT.
L = 100.00 FT.
E = 0.40 FT.

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
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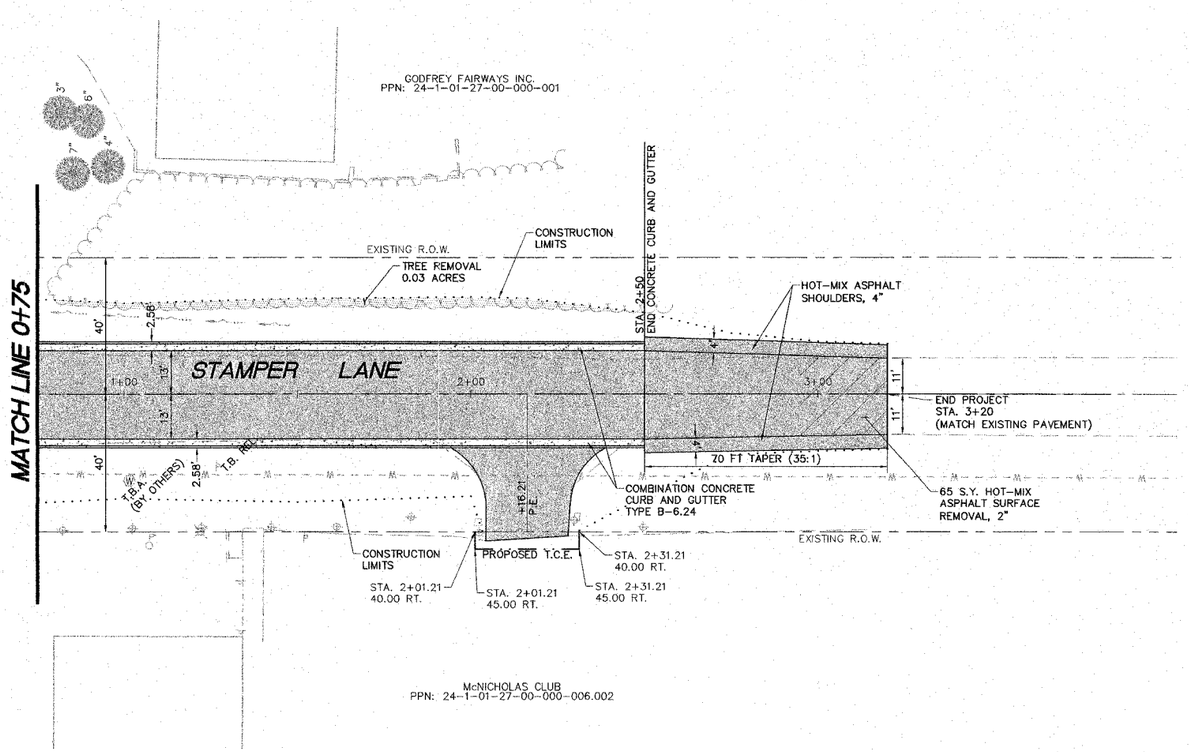
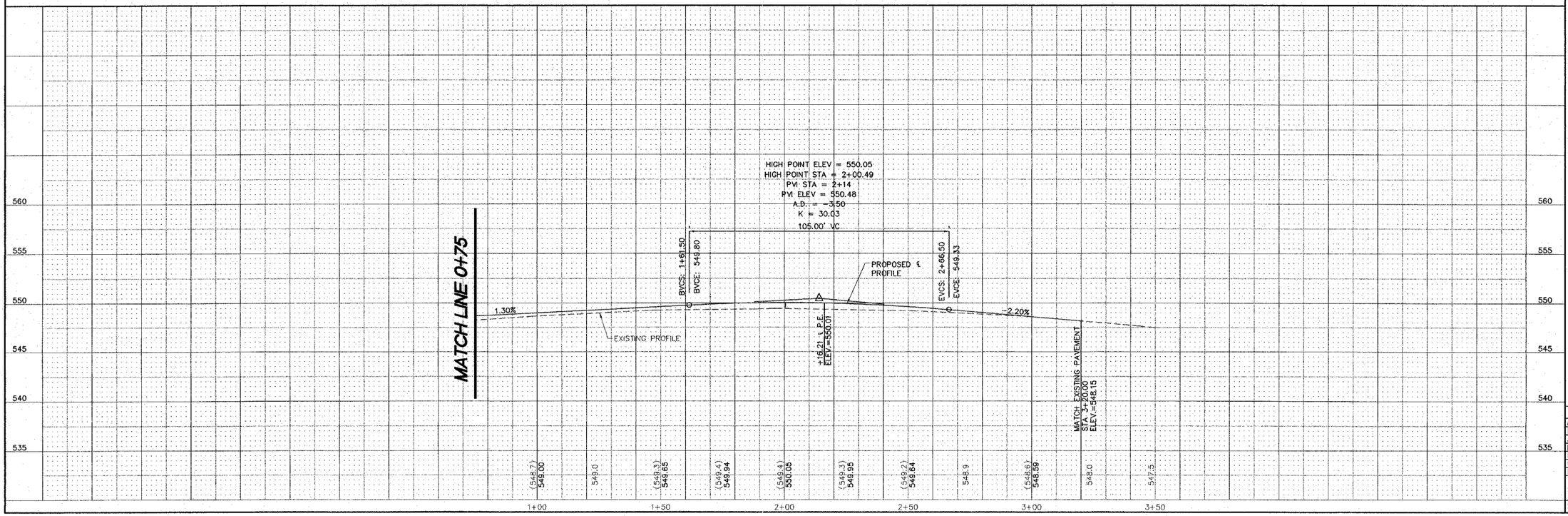
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - PAVING PLAN

DWG. NO.	PRC PH3 ROAD PP.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	9 OF 61

S:\land projects\GODFREY-PIERCE LN PH3 (436613)\dwg\PRC PH3 PP PAVING.dwg, 4/14/2008 8:56:00 AM, bstpeters, 1:20





CONTRACT 97343

REVISIONS

SMS ENGINEERS
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CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - PAVING PLAN

DWG. NO.	PRC PH3 ROAD PP.DWG
REF. BK.	PG.
JOB NO.	43661.3
DSN. BY:	SJW/DDT
DWN. BY:	ECS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	10 OF 61

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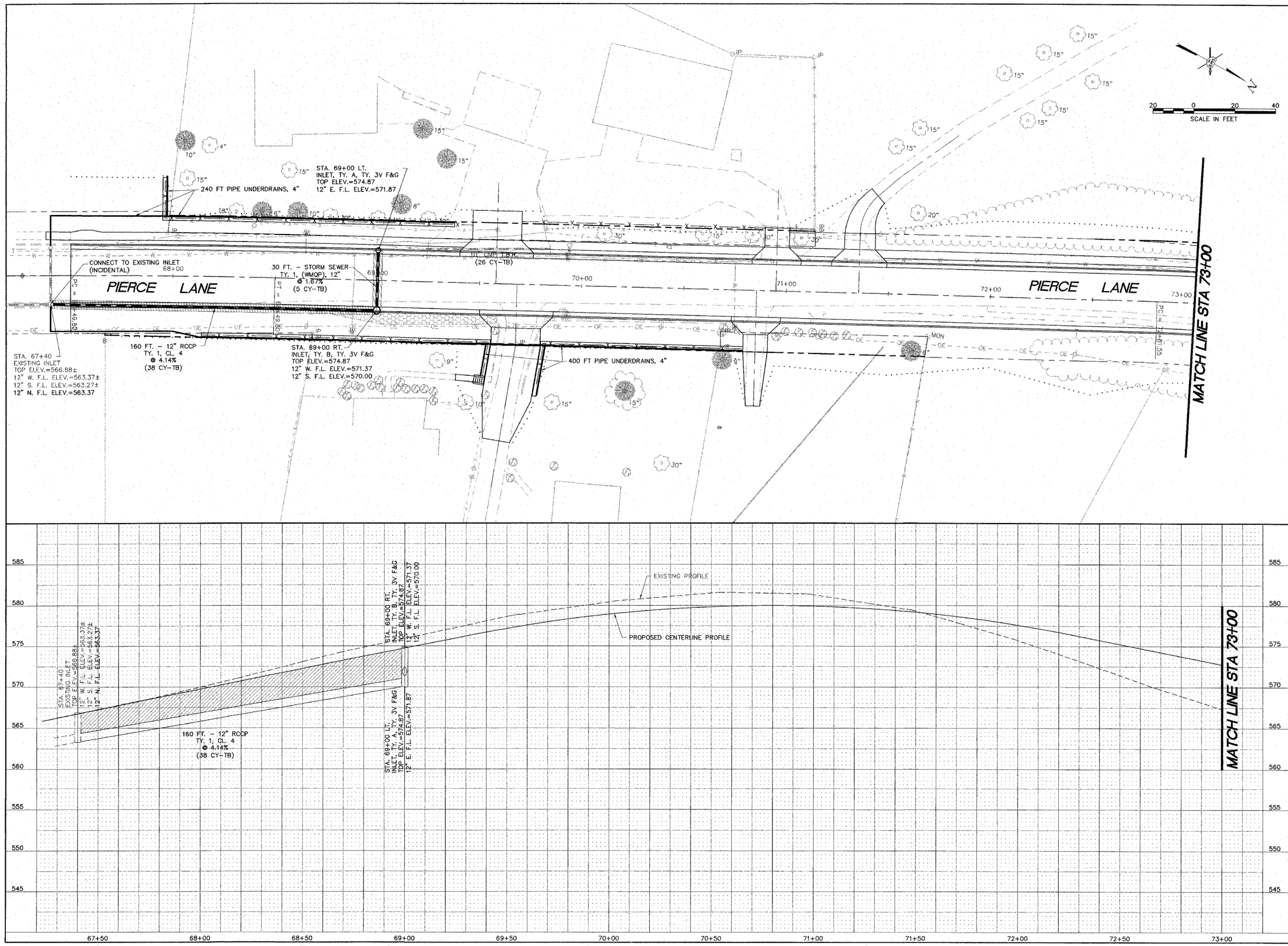
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-2755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - STORM PLAN



DWG. NO.	PRC PH3 PP STORM.DWG
REF. BK.	PG.
JOB NO.	4.36613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	11 OF 61

CONTRACT 97343

REVISIONS

SMS ENGINEERS
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10 Central Industrial Drive, Grenite City, IL 62040 618/877-4700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - STORM PLAN

MATCH LINE STA 73+00

STA. 73+19 LT.
INLET, TY. A, TY. 3V F&G
TOP ELEV.=572.62
12" E. F.L. ELEV.=569.48

STA. 74+35, 48' LT.
INLET '3'x3'
TOP ELEV.=562.33
THROAT ELEV.=561.50
12" N. F.L. ELEV.=558.50

STA. 74+25.22
46.97 LT.

55 FT. – STORM SEWER
TY. 1, (WMQP), 12"
@ 0.51%
(4 CY–TB)

STA. 74+33.98
58.55 LT.

STA. 74+68.77
30.00 LT.

PROPOSED P.O.E.

STA. 74+44.95
30.00 LT.

STA. 74+77 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=564.72
12" S. F.L. ELEV.=558.22
12" E. F.L. ELEV.=558.02

STA. 75+38 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=561.67
12" S. F.L. ELEV.=558.17
12" N. F.L. ELEV.=557.99

27 FT. – STORM SEWER
TY. 1, (WMQP), 12"
@ 4.15%
(5 CY–TB)

STA. 75+90 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=559.07
12" S. F.L. ELEV.=555.57
12" N. F.L. ELEV.=555.39

28 FT. – STORM SEWER
TY. 1, (WMQP), 12"
@ 4.14%
(5 CY–TB)

STA. 76+43 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=556.42
12" S. F.L. ELEV.=552.92
12" N. F.L. ELEV.=552.74

27 FT. – STORM SEWER
TY. 1, (WMQP), 12"
@ 4.15%
(5 CY–TB)

STA. 76+95 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=553.65
12" S. F.L. ELEV.=550.13
12" N. F.L. ELEV.=549.76

STA. 77+47 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=550.80
12" S. F.L. ELEV.=547.30
12" N. F.L. ELEV.=547.20

26 FT. – STORM SEWER
TY. 1, (WMQP), 12"
@ 4.15%
(5 CY–TB)

PIERCE LANE

31 FT. – STORM SEWER
TY. 2, (WMQP), 12"
@ 0.52%
(23 CY–TB)

36 FT. – STORM SEWER
TY. 1, (WMQP), 12"
@ 4.14%
(7 CY–TB)

12" CMP T.B.R.
(12 CY–TB)

15" CMP T.B.R.
(25 CY–TB)

30 FT. – STORM SEWER
TY. 1, (WMQP), 12"
@ 4.13%
(5 CY–TB)

154 FT. – 12" RCCP
TY. 1, CL. 4
@ 4.14%
(30 CY–TB)

STA. 73+19 RT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=571.74
12" W. F.L. ELEV.=568.24
12" N. F.L. ELEV.=566.22

STA. 74+77 RT.
M.H., TY.A, 4' DIA.,
TY. 3V F&G
TOP ELEV.=563.84
12" S. F.L. ELEV.=559.84
12" W. F.L. ELEV.=557.86
12" N. F.L. ELEV.=557.76

STA. 75+03 LT.
INLET, TY. A, TY. 3V F&G
TOP ELEV.=563.42
12" N. F.L. ELEV.=559.66

161 FT. – 12" RCCP
TY. 2, CL. 3
@ 3.55%
(26 CY–TB)

STA. 75+64 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=560.37
12" S. F.L. ELEV.=556.87
12" N. F.L. ELEV.=556.69

STA. 76+16 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=557.77
12" S. F.L. ELEV.=554.27
12" N. F.L. ELEV.=554.08

139 FT. – 15" RCCP
TY. 2, CL. 3
@ 3.08%
(14 CY–TB)

STA. 76+43 RT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=555.54
12" S. F.L. ELEV.=552.04
15" N. F.L. ELEV.=549.25

STA. 76+69 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=555.12
12" S. F.L. ELEV.=551.62
12" N. F.L. ELEV.=551.25

26 FT. – STORM SEWER
TY. 1, (WMQP), 12"
@ 4.15%
(5 CY–TB)

STA. 77+21 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=552.18
12" S. F.L. ELEV.=548.68
12" N. F.L. ELEV.=548.38

STA. 77+83 RT.
R.D.M.H., 4' DIA.,
TY. 3V F&G
TOP ELEV.=549.22
15" W. F.L. ELEV.=544.97
15" S. F.L. ELEV.=544.97
21" N. F.L. ELEV.=544.77

17 FT. – 21" RCCP
TY. 1, CL. 4
@ 1.64%
(4 CY–TB)

STA. 77+83 LT.
INLET, TY. B, TY. 3V F&G
TOP ELEV.=549.22
12" S. F.L. ELEV.=545.72
15" E. F.L. ELEV.=545.27

30 FT. – 15" RCCP
TY. 1, CL. 4
@ 1.00%
(7 CY–TB)

MATCH LINE STA 78+00

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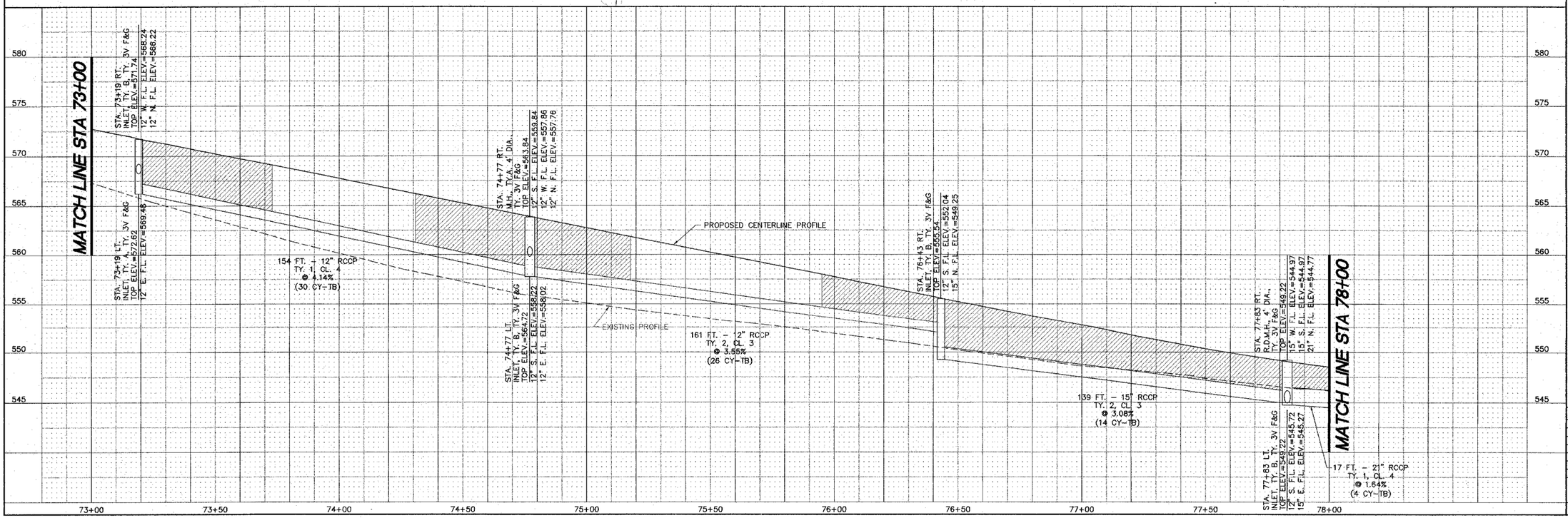
SCALE IN FEET



DWG. NO.	PRC PH3 PP STORM.DWG
REF. BK.	PG.
JOB NO.	4366.13
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	12 OF 61

S:\land projects\GODFREY-PIERCE LN PH3 (4366.13)\dwg\PRC PH3 PP STORM.dwg, 4/14/2008 8:21:31 AM, bstebbins, 1:20

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-9700 E-mail: mail@smsengineers.com

MATCH LINE STA 78+00

MATCH LINE P.T. STA 82+81.26 (END PHASE 3 / BEGIN PHASE 4)

20 0 20 40
SCALE IN FEET

27 FT. – 21" RCCP
TY. 1, CL. 4
@ 1.64%
(7 CY–TB)

STA. 78+27 RT.
R.D.M.H., 4' DIA.,
TY. 3V F&G
TOP ELEV.=548.22
12" W. F.L. ELEV.=544.80
21" S. F.L. ELEV.=544.05
24" N. F.L. ELEV.=543.70

33 FT. – 24" RCCP
TY. 1, CL. 4,
@ 0.61%
(9 CY–TB)

STA. 78+60 RT.
R.D.M.H., 4' DIA.,
TY. 3V F&G
TOP ELEV.=547.81
24" S. F.L. ELEV.=543.50
24" N. F.L. ELEV.=543.40

34 FT. – 24" RCCP
TY. 1, CL. 4,
@ 0.59%
(9 CY–TB)

STA. 78+27 LT.
INLET, TY. A, TY. 3V F&G
TOP ELEV.=547.95
12" E. F.L. ELEV.=544.95

30 FT. – 12" RCCP
TY. 1, CL. 4,
@ 0.50%
(4 CY–TB)

STA. 78+93 RT.
R.D.M.H., 4' DIA.,
TY. 3V F&G
TOP ELEV.=547.65
24" S. F.L. ELEV.=543.20
24" N. F.L. ELEV.=543.10

34 FT. – 24" RCCP
TY. 1, CL. 4,
@ 0.59%
(9 CY–TB)

STA. 79+26 RT.
R.D.M.H., 4' DIA.,
TY. 3V F&G
TOP ELEV.=547.36
24" S. F.L. ELEV.=542.90
24" N. F.L. ELEV.=542.80

34 FT. – 24" RCCP
TY. 1, CL. 4,
@ 0.59%
(9 CY–TB)

STA. 79+59 RT.
R.D.M.H., 4' DIA.,
TY. 3V F&G
TOP ELEV.=547.03
24" S. F.L. ELEV.=542.60
24" N. F.L. ELEV.=542.50

34 FT. – 24" RCCP
TY. 1, CL. 4,
@ 0.59%
(9 CY–TB)

STA. 79+92 RT.
R.D.M.H., 4' DIA.,
TY. 3V F&G
TOP ELEV.=546.70
24" S. F.L. ELEV.=542.30
24" N. F.L. ELEV.=542.20

34 FT. – 24" RCCP
TY. 1, CL. 4,
@ 0.59%
(9 CY–TB)

STA. 80+14.67
30.00 RT.

STA. 80+25 RT.
M.H., TY.A, 6' DIA.,
TY. 3V F&G
TOP ELEV.=546.37
24" S. F.L. ELEV.=542.00
42" E. F.L. ELEV.=535.11
42" W. F.L. ELEV.=534.91

38 FT. – 42" RCCP
TY. 2, CL. 3,
@ 0.83%
(69 CY–TB)

STA. 80+33.40
30.00 RT.

39 FT. 42" RCCP
TY. 2, CL. 3,
@ 0.83%

STA. 80+22, 62.65' RT.
P.R.C.F.E.S., 42"
F.L. ELEV.=535.50

STA. 80+12.90
72.08 RT.

STA. 80+29.95
73.37 RT.

200 S.Y. STONE RIPRAP,
CLASS A4

STA. 80+45 LT.
M.H., TY.A, 6' DIA.,
TY. 3V F&G
TOP ELEV.=545.19
12" N. F.L. ELEV.=537.71
42" E. F.L. ELEV.=534.61
42" W. F.L. ELEV.=534.41

STA. 80+52.89
38.92 LT.

STA. 80+92.62
73.39 LT.

STA. 80+92, 59.26' LT.
P.R.C.F.E.S., 42"
F.L. ELEV.=533.90

170 S.Y. STONE RIPRAP,
CLASS A4

STA. 81+08.38
58.31 LT.

STA. 80+88.30
42.72 LT.

53 FT. – 42" RCCP
TY. 2, CL. 3,
@ 0.84%
(21 CY–TB)

84 FT. – 12" RCCP
TY. 1, CL. 4,
@ 0.50%
(32 CY–TB)

65 FT. – 12" RCCP
TY. 2, CL. 3,
@ 0.49%
(54 CY–TB)

STA. 81+12 LT.
M.H., TY.A, 4' DIA.,
TY. 3V F&G
TOP ELEV.=544.52
12" N. F.L. ELEV.=538.23
12" E. F.L. ELEV.=540.52
12" S. F.L. ELEV.=538.03

STA. 81+12 RT.
INLET, TY. A, TY. 3V F&G
TOP ELEV.=545.50
12" W. F.L. ELEV.=541.76

STA. 81+99 LT.
R.D.M.H., 4' DIA.,
TY. 3V F&G
TOP ELEV.=543.65
12" N. F.L. ELEV.=538.85
12" E. F.L. ELEV.=540.65
12" S. F.L. ELEV.=538.65

79 FT. – 12" RCCP
TY. 1, CL. 4,
@ 0.50%
(19 CY–TB)

30 FT. – 12" RCCP
TY. 1, CL. 4,
@ 3.27%
(4 CY–TB)

30 FT. – 12" RCCP
TY. 1, CL. 4,
@ 4.13%
(6 CY–TB)

STA. 81+99 RT.
INLET, TY. A, TY. 3V F&G
TOP ELEV.=544.63
12" W. F.L. ELEV.=541.63

STA. 82+48.52
30.00 RT.

STA. 82+48.52
63.05 RT.

PIERCE LANE

PROPOSED P.O.E.

422' CMP (T.B.R.)

WATERWAY INFORMATION
DRAINAGE AREA = 29.9 ACRES
EXISTING OPENING = 9.6 SQ. FT. (42" CMP)
DESIGN OPENING = 9.6 SQ. FT. (42" RCCP)
DESIGN DISCHARGE (30 YEAR) = 56.9 CFS
EXISTING HEADWATER ELEVATION (30 YEAR) = 538.55 (Q=42 CFS)
DESIGN HEADWATER ELEVATION (30 YEAR) = 538.71
100 YEAR DISCHARGE = 76.8 CFS
EXISTING HEADWATER ELEVATION (100 YEAR) = 539.43 (Q=56.7 CFS)
DESIGN HEADWATER ELEVATION (100 YEAR) = 539.49
OVERTOPPING ELEVATION = 545.45
EXISTING OVERTOPPING DISCHARGE = 77.4 CFS
PROPOSED OVERTOPPING DISCHARGE = 154.2 CFS

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - STORM PLAN

DWG. NO. PRC PH3 PP STORM.DWG
REF. BK. PG.
JOB NO. 436613
DSN. BY: SJW/DDT
DWN. BY: BCS
CHK. BY: SJW
DATE: FEBRUARY, 2008
SCALE: HORIZ. 1"=20'
VERT. 1"=5'
SHEET 13 OF 61

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REVISIONS

SMS ENGINEERS
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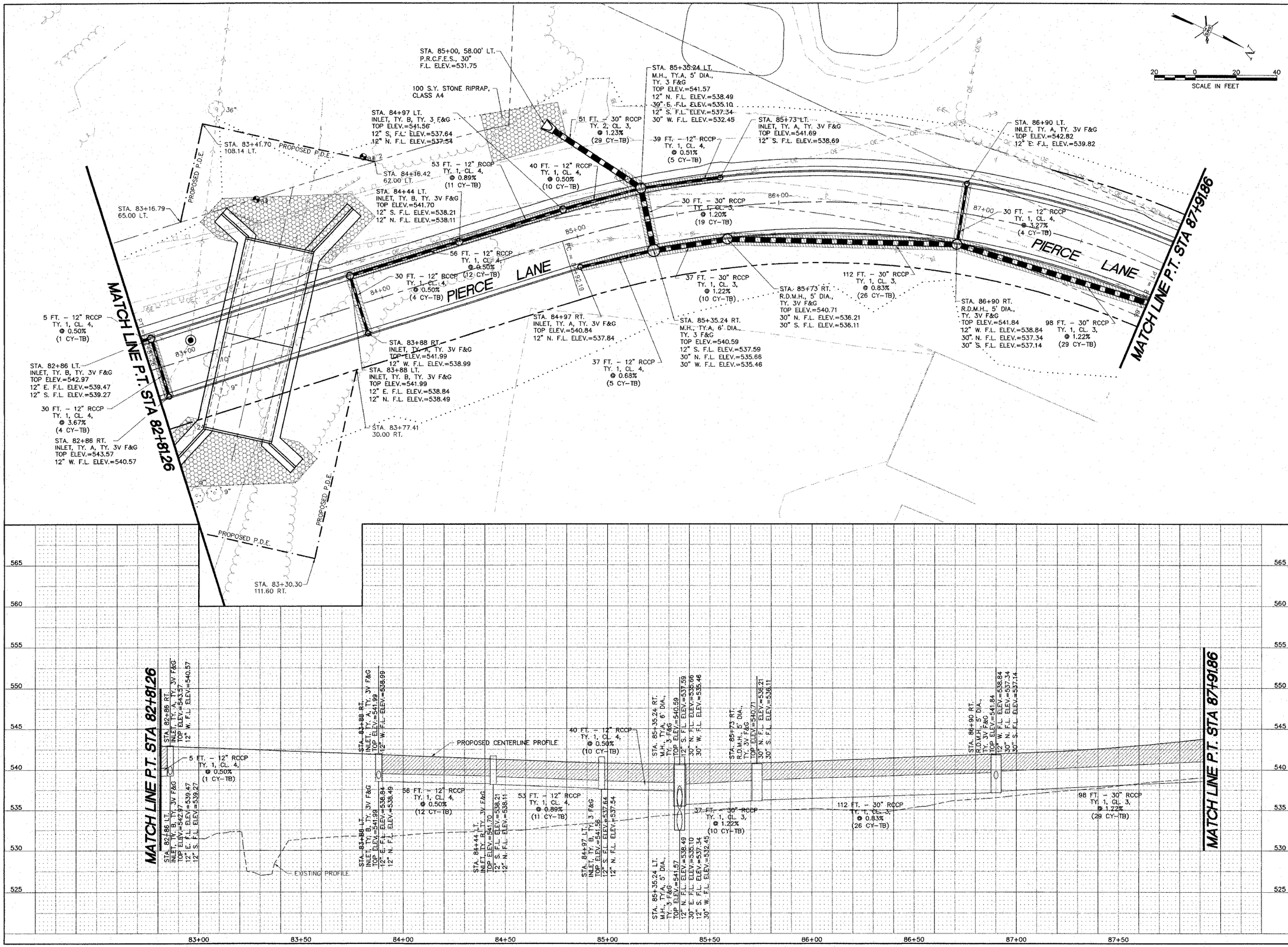
10 Central Industrial Drive, Granite City, IL 62040 618/877-9700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - STORM PLAN



DWG. NO.	PRC PH3 PP STORM.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	14 OF 61

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CONTRACT 97343

REVISIONS

SMS ENGINEERS
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CONSULTING ENGINEERS AND LAND SURVEYORS
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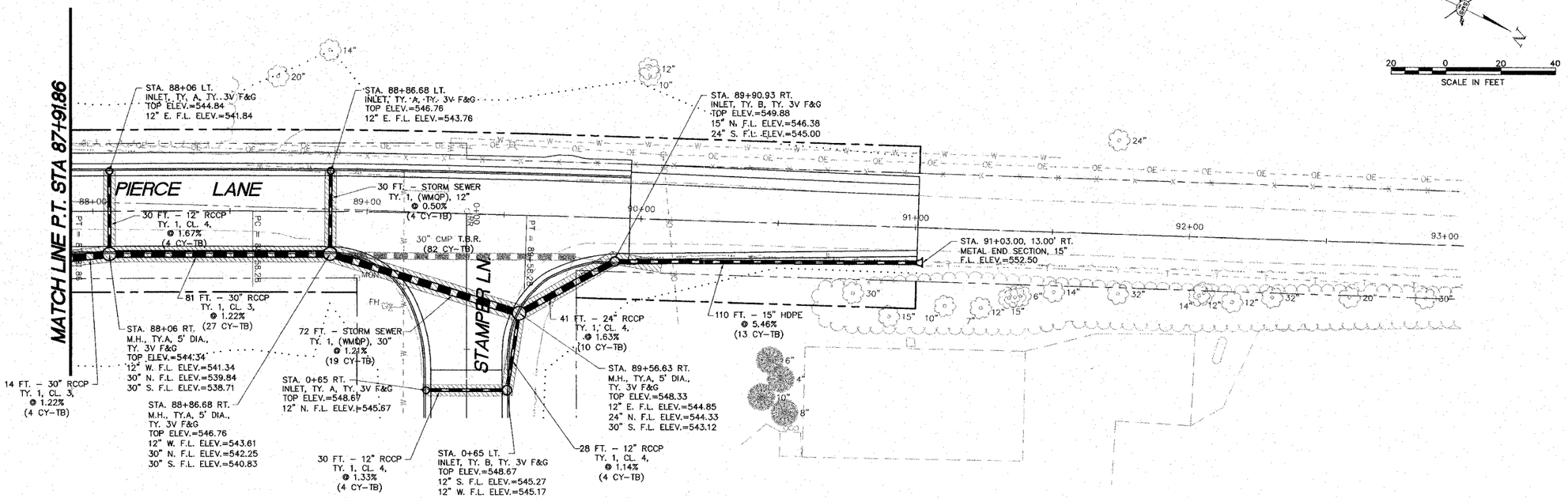
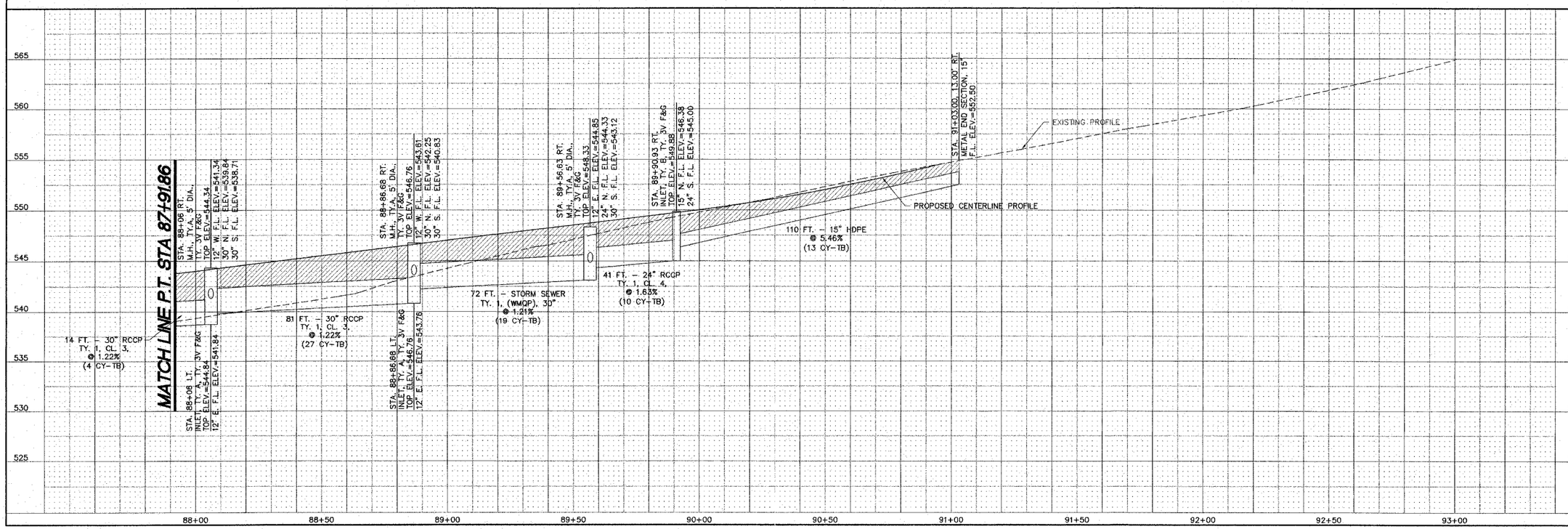
10 Central Industrial Drive, Granite City, IL 62040 618/877-4700 E-mail: mail@smsengineers.com

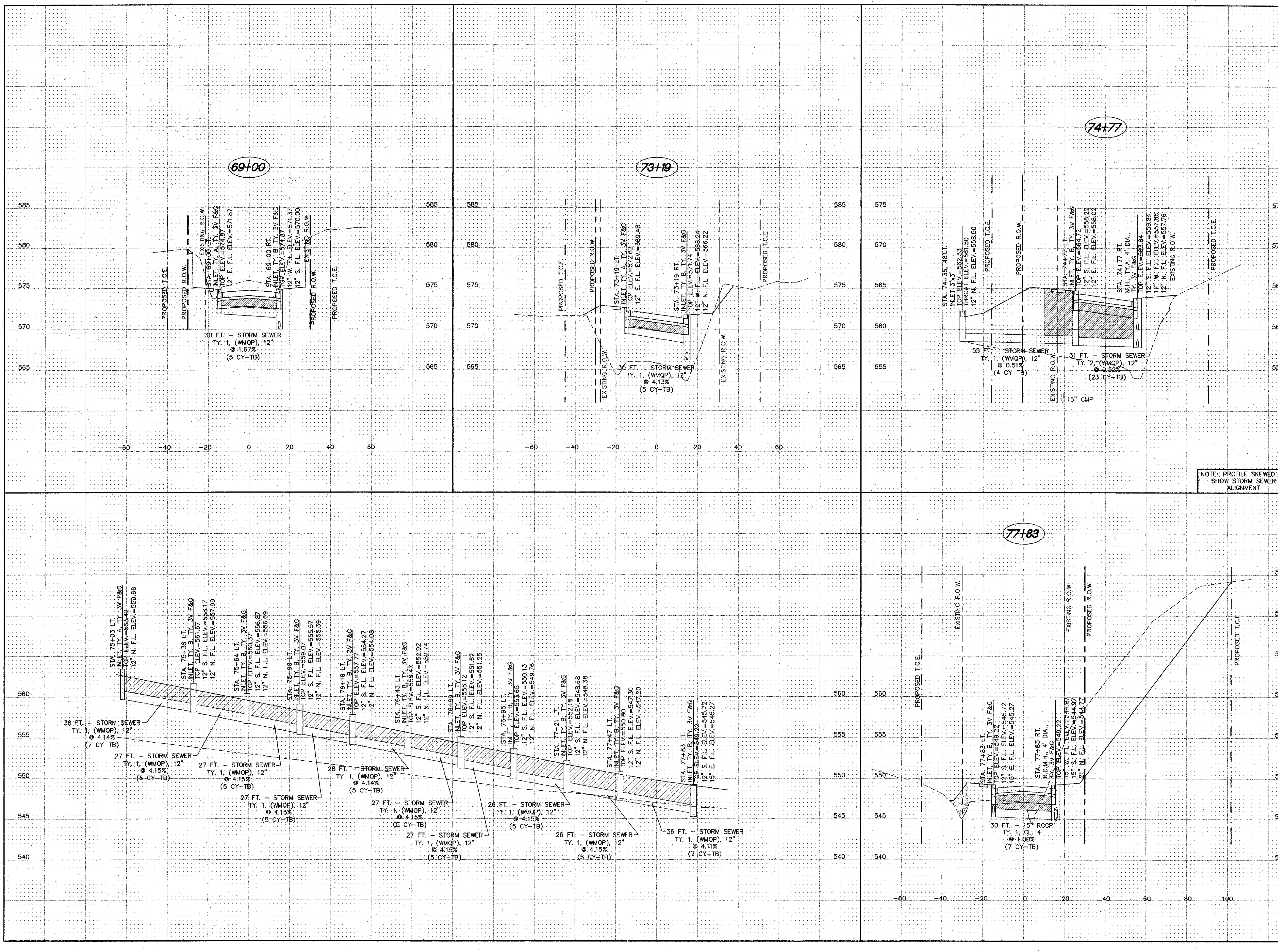




PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PLAN AND PROFILE - STORM PLAN

DWG. NO.	PRC PH3 PP STORM.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	15 OF 61

S:\Land projects\GODFREY-PIERCE Ln PH3 (436613)\Dwg\PRC PH3 PP STORM.dwg, 4/14/2008 9:29:37 AM, bsapperstein, 1:20



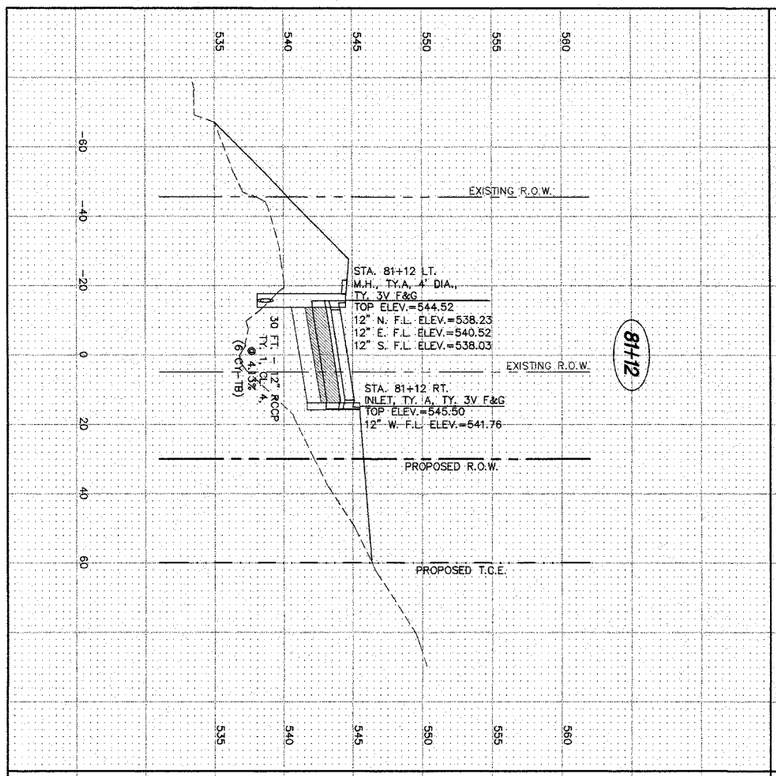
CONTRACT 97343

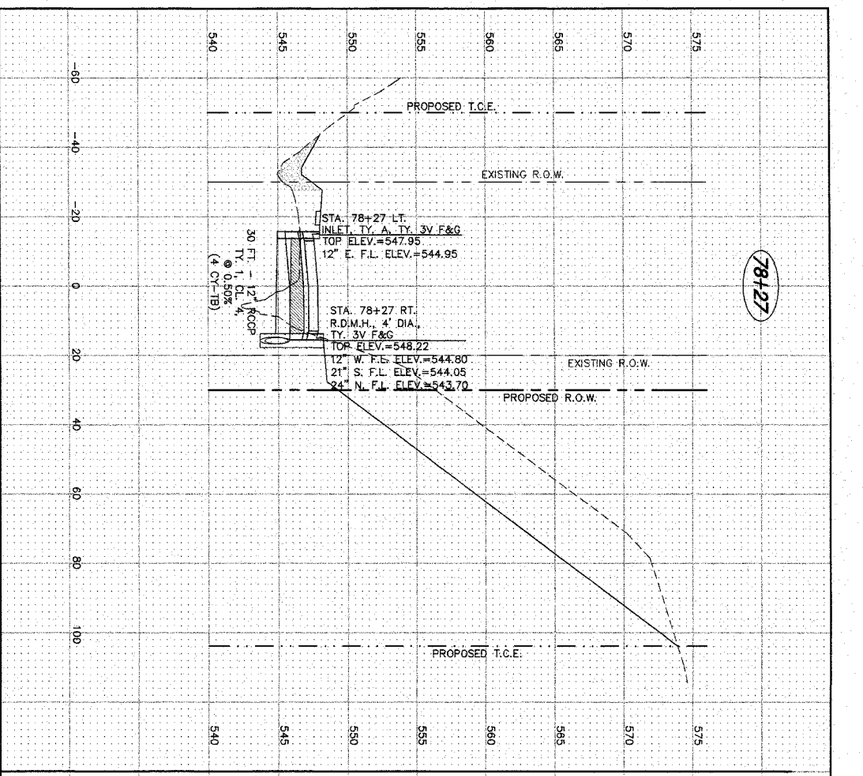
REVISIONS

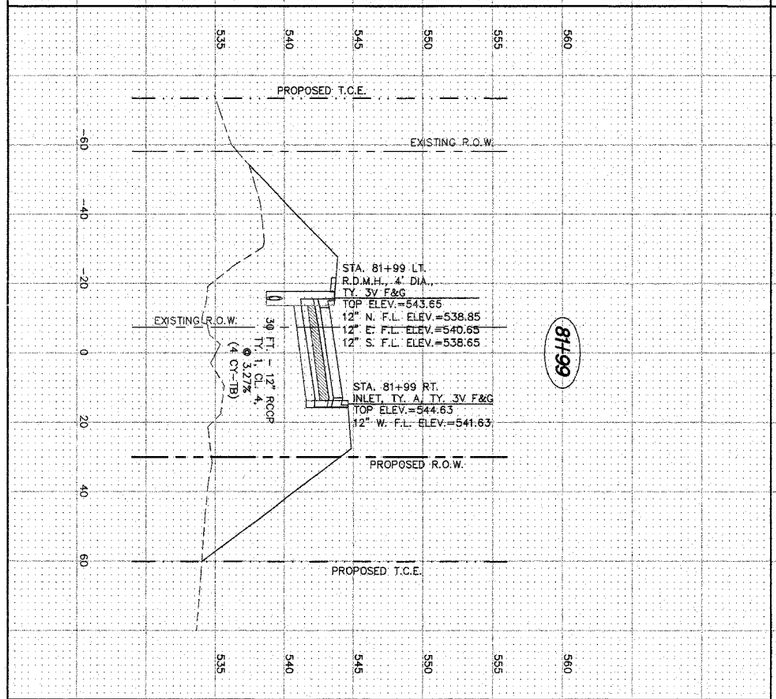
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
DESIGN FIRM # 184-000992

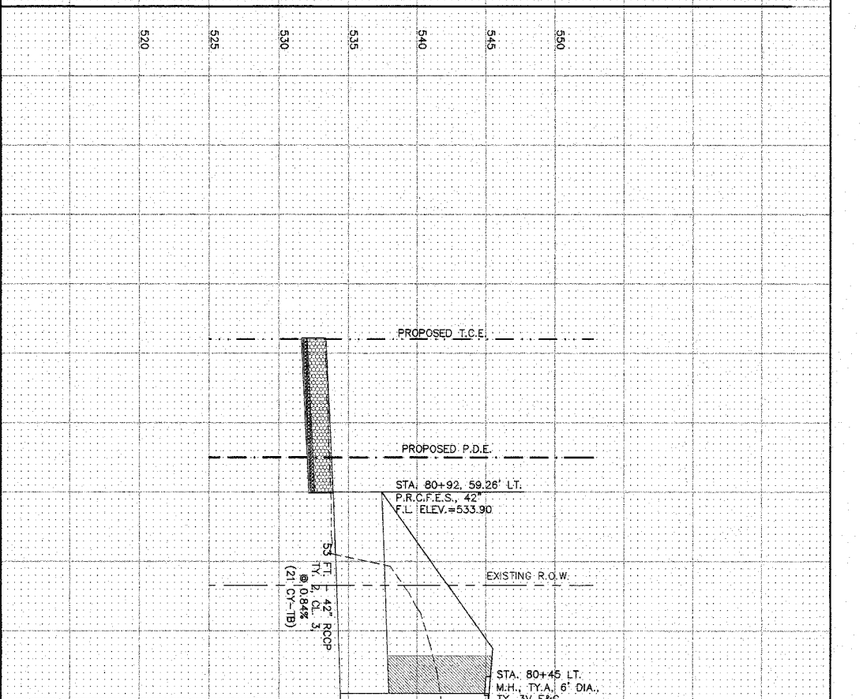
PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
STORM SEWER PROFILES

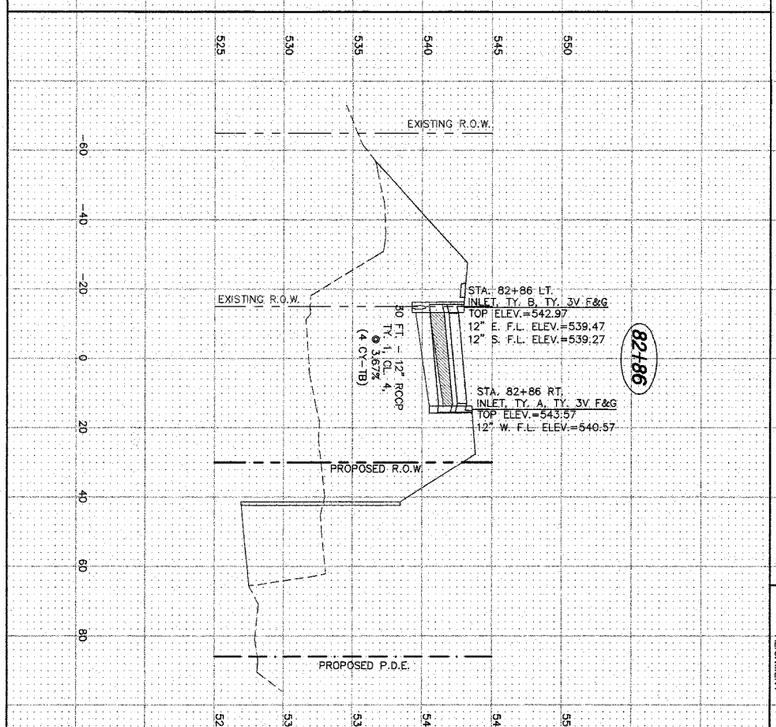
DWG. NO.	PRC PH3 STORM PROFILES.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	HORIZ. 1"=20' VERT. 1"=5'
SHEET	16 OF 61











NOTE: PROFILE SKEWED TO SHOW STORM SEWER ALIGNMENT

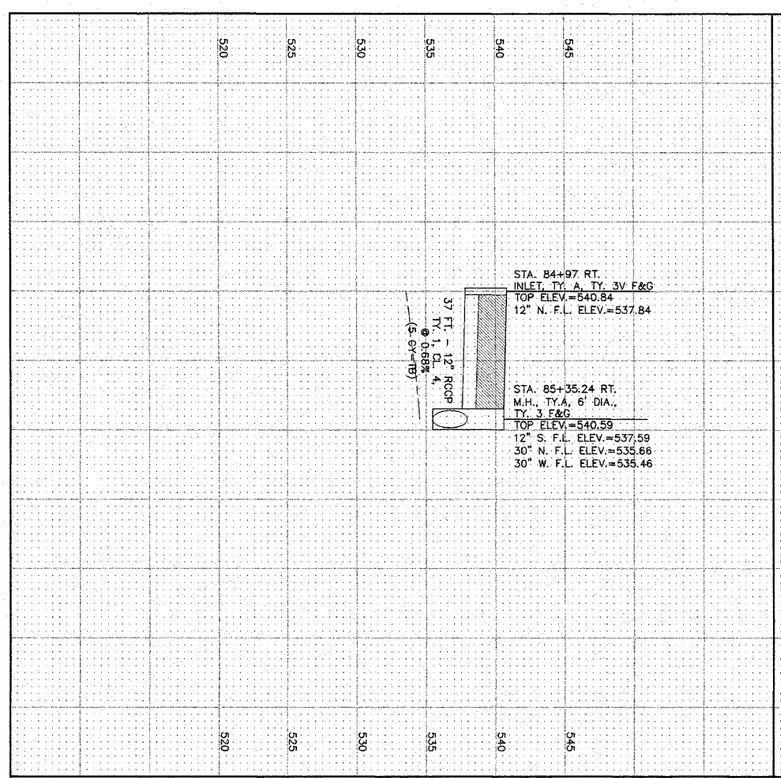
DWG. NO. PRC PH3 STORM PROFILE.DWG
REF. BK.
JOB NO. 438613
DSN. BY: SJW/DDT
DWN. BY: SJW
CHK. BY: SJW
DATE: FEBRUARY, 2008
SCALE: HORIZ. 1"=20' VERT. 1"=5'
SHEET 17 OF 61

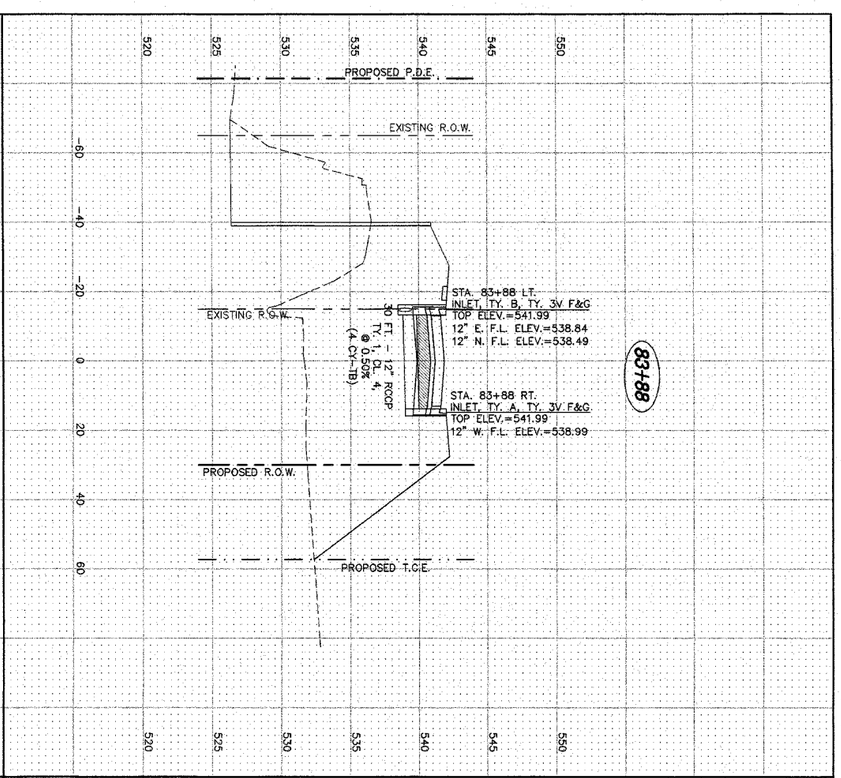
PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
STORM SEWER PROFILES

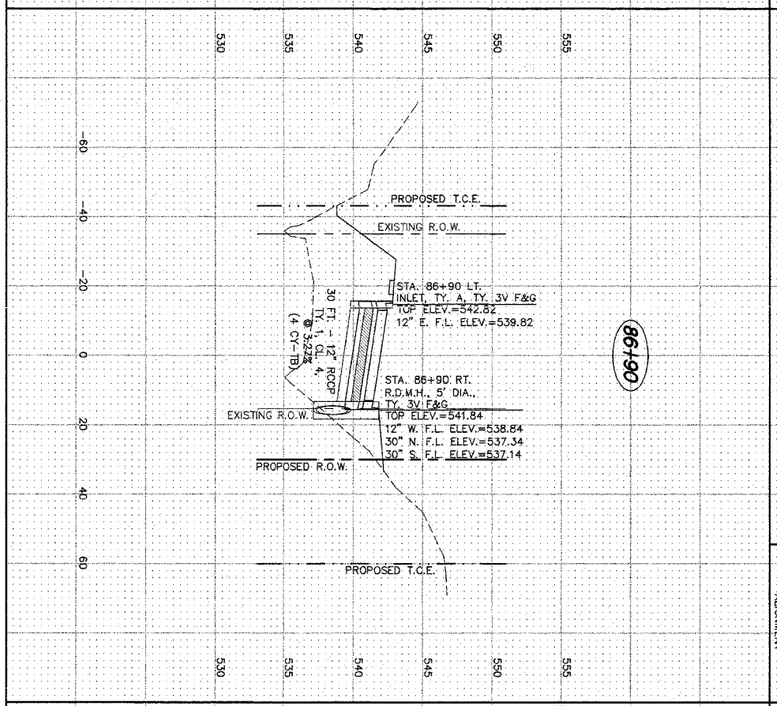
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

REVISIONS

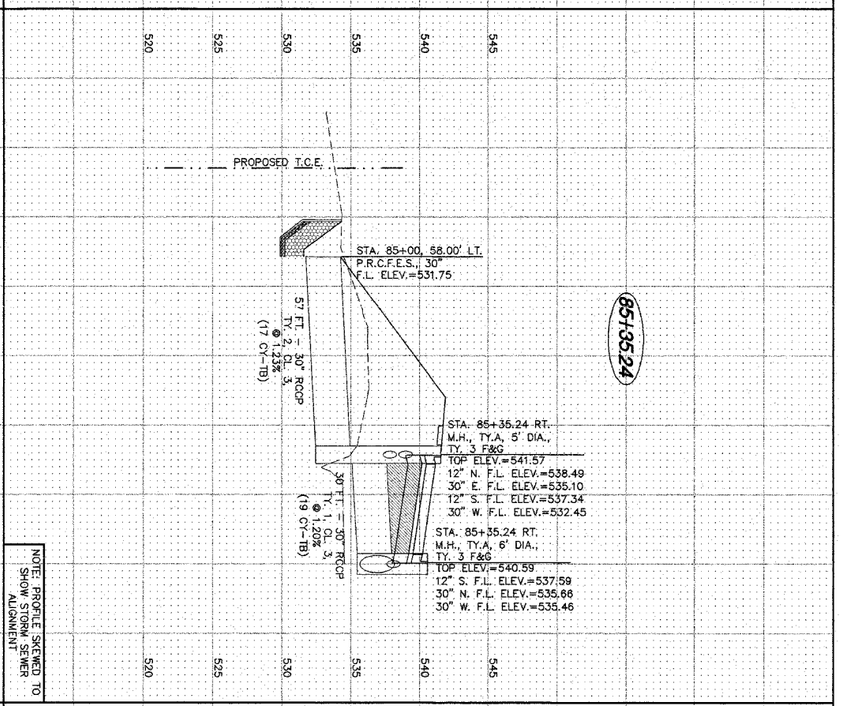
CONTRACT 97343

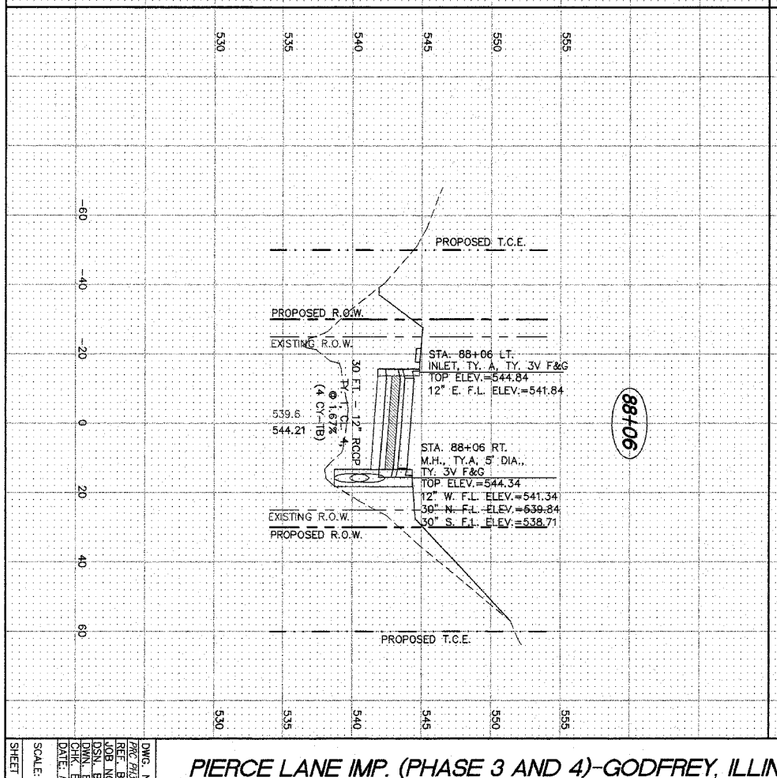


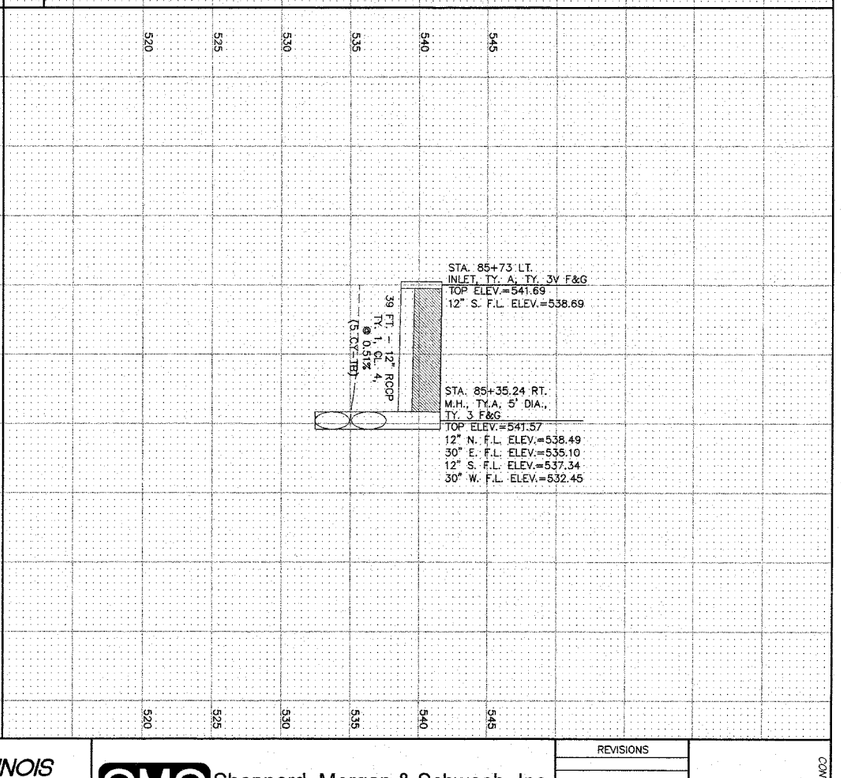




NOTE: PROFILE SKEWED TO SHOW STORM SEWER ALIGNMENT







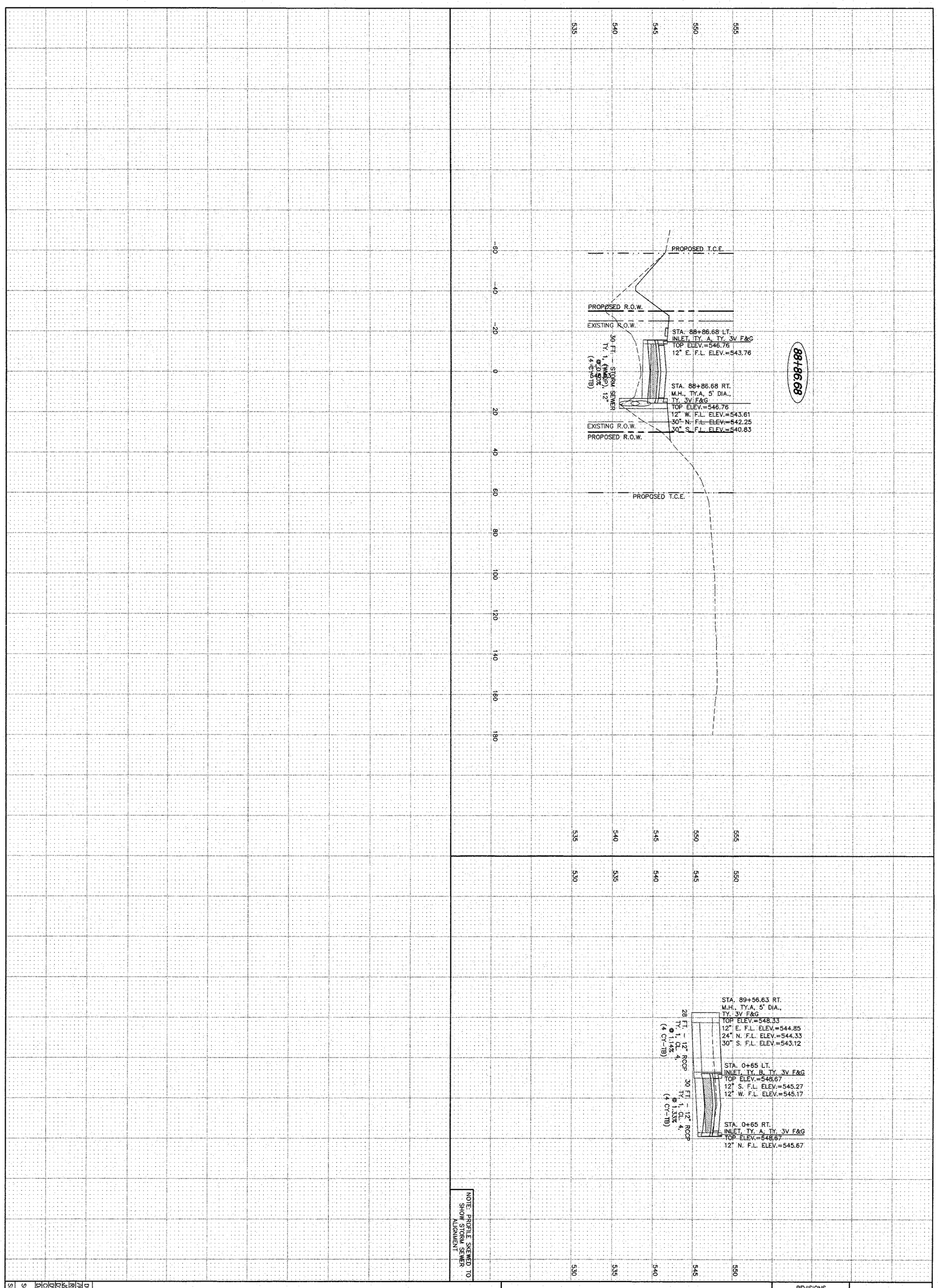
DWG. NO. 2PRC PH3 STORM PROFILES.DWG
DES. BK. PD
JOB NO. 436613
DSN. BY: SJW/DJT
DWN. BY: SJW
CHK. BY: SJW
DATE: FEBRUARY, 2008
SCALE: HORIZ. 1"=20'
VERT. 1"=5'
SHEET 18 OF 61

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
STORM SEWER PROFILES

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

REVISIONS

CONTRACT 97343



NOTE: PROFILE SKEWED TO SHOW STORM SEWER ALIGNMENT

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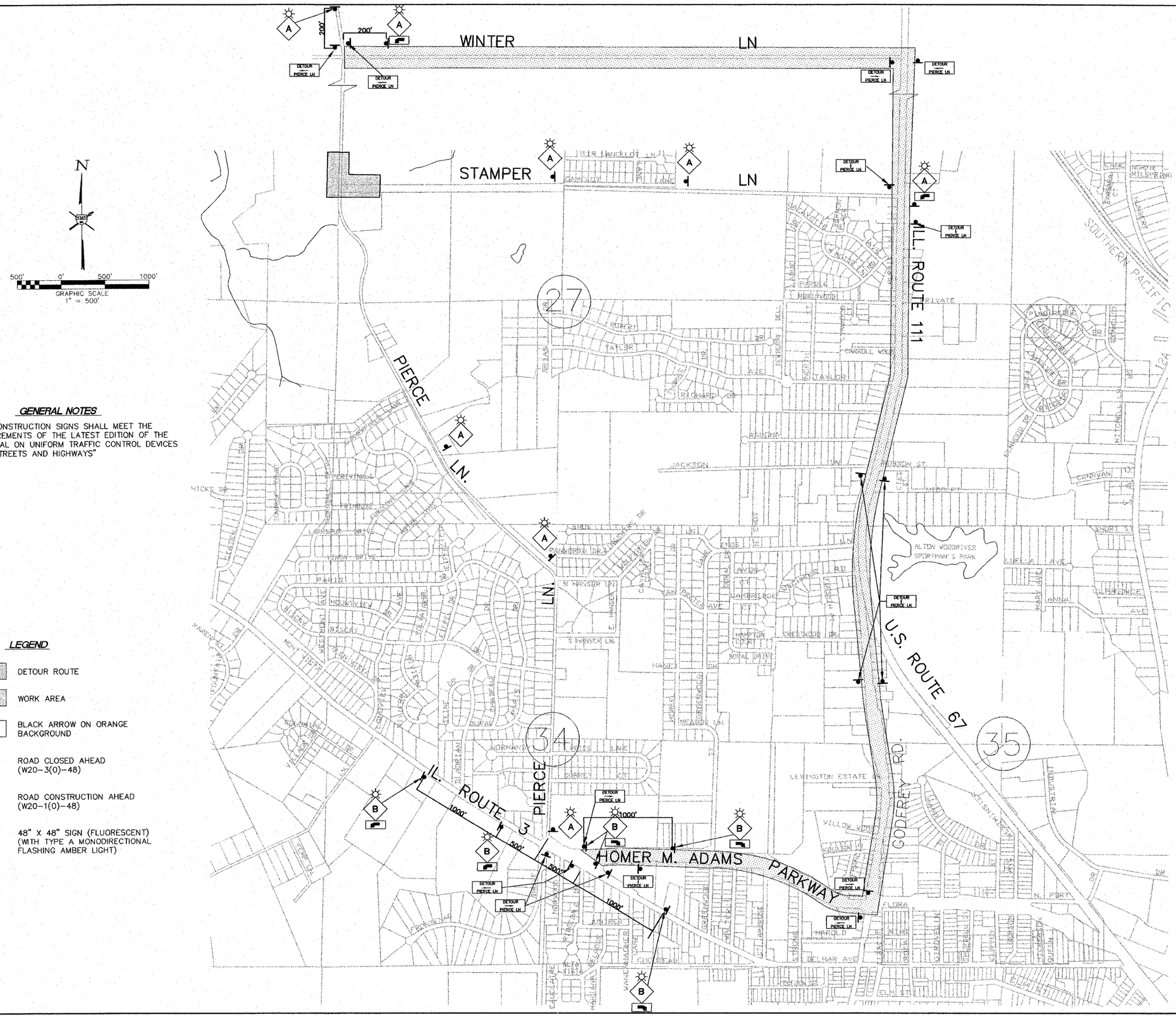
REF. FILE: PRC
JOB NO. 436613
DSN. BY: SJW/JDT
DWN. BY: SJW
CHK. BY: SJW
DATE: FEBRUARY, 2008
SCALE: HORIZ. 1"=20'
VERT. 1"=5'
SHEET 19 OF 61

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
STORM SEWER PROFILES

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-0755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

REVISIONS

CONTRACT 97343



GENERAL NOTES

1. ALL CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"

LEGEND

- DETOUR ROUTE
- WORK AREA
- BLACK ARROW ON ORANGE BACKGROUND
- ROAD CLOSED AHEAD (W20-3(0)-48)
- ROAD CONSTRUCTION AHEAD (W20-1(0)-48)
- 48" X 48" SIGN (FLUORESCENT) (WITH TYPE A MONODIRECTIONAL FLASHING AMBER LIGHT)

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-9700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
TRAFFIC DETOUR PLAN - STAGE 1

DWG. NO.	PRC PH3 DETOUR.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=500'
SHEET	20 OF 61

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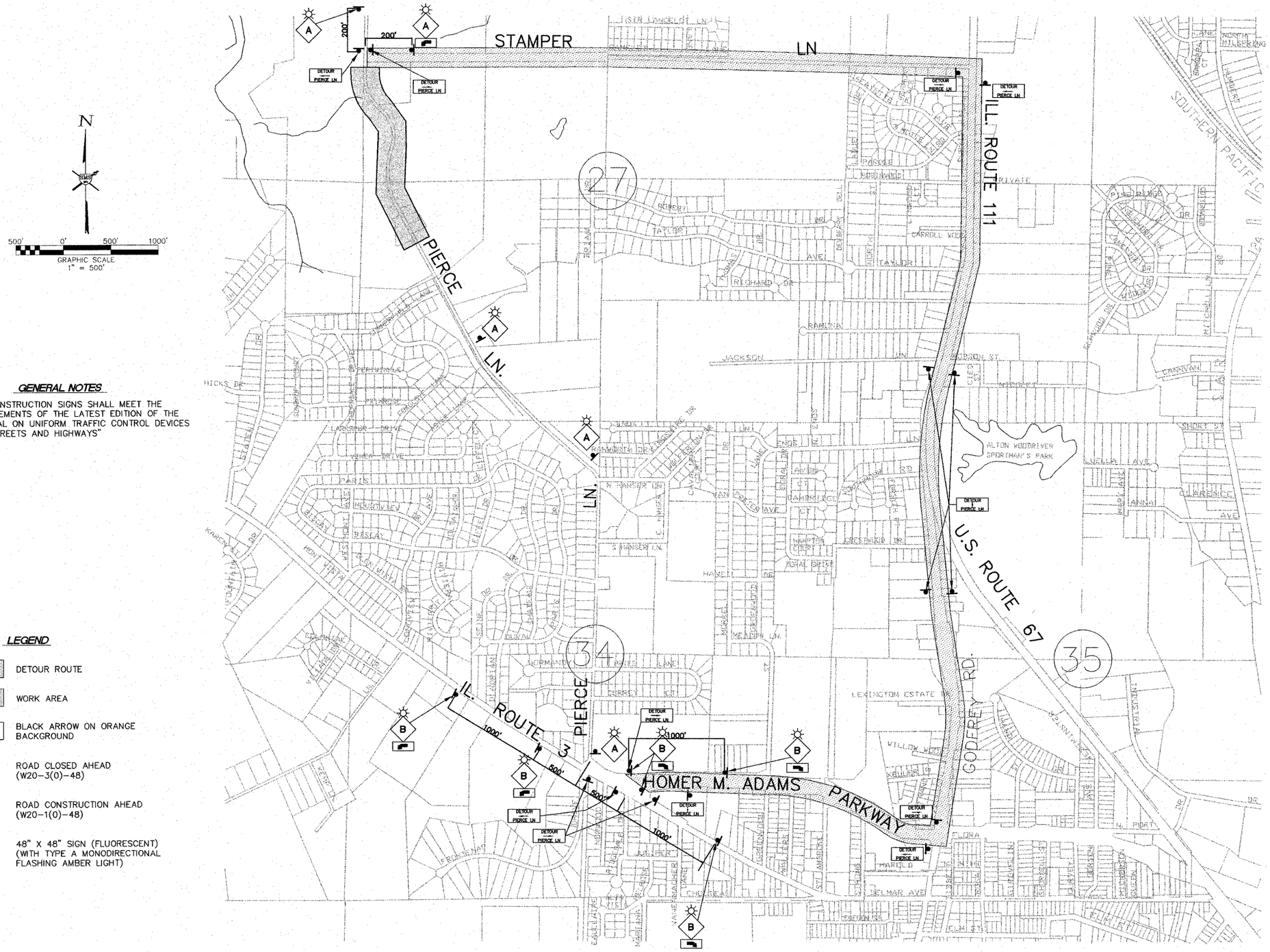


N

GRAPHIC SCALE
1" = 500'

GENERAL NOTES

1. ALL CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"

LEGEND

- DETOUR ROUTE
- WORK AREA
- BLACK ARROW ON ORANGE BACKGROUND
- A — ROAD CLOSED AHEAD (W20-3(0)-48)
- B — ROAD CONSTRUCTION AHEAD (W20-1(0)-48)
- 48" X 48" SIGN (FLUORESCENT) (WITH TYPE A MONODIRECTIONAL FLASHING AMBER LIGHT)

CONTRACT 97343

REVISIONS

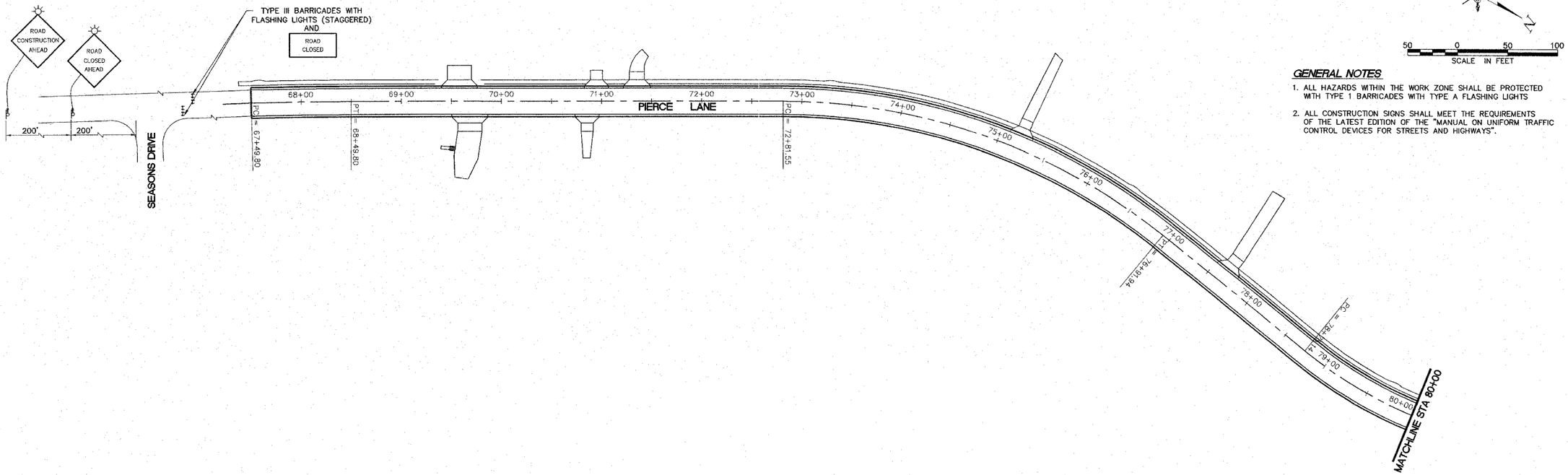
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-3755 E-mail: mail@smseng1nseers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-9700 E-mail: mail@smseng1nseers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
TRAFFIC DETOUR PLAN - STAGE 2, 3 AND 4

DWG. NO.	PRC PH3 DETOUR.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=500'
SHEET	21 OF 61

S:\Sms projects\GODFREY PIERCE LN PH3 (436613)\dwg\PRC PH3 DETOUR.dwg, 4/14/2008 8:32:41 AM, bspetters, 1:500

CONTRACT 97343



50 0 50 100
SCALE IN FEET

GENERAL NOTES

1. ALL HAZARDS WITHIN THE WORK ZONE SHALL BE PROTECTED WITH TYPE 1 BARRICADES WITH TYPE A FLASHING LIGHTS
2. ALL CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".

SYMBOLS

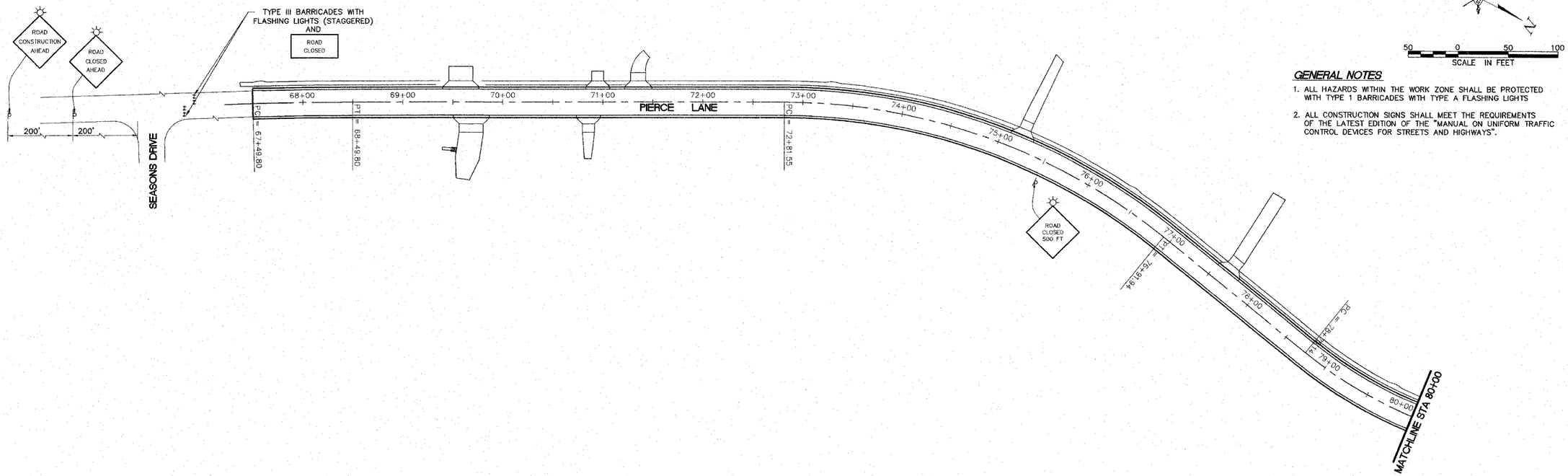
- WORK AREA
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TYPE II BARRICADE WITH FLASHING LIGHTS
- DRUM WITH FLASHING LIGHT
- CONE
- SIGN
- FLASHING LIGHT
- W20-1(0)-48 (ROAD CONSTRUCTION AHEAD)
- R11-2 (ROAD CLOSED)
- W20-3(0)-48 (ROAD CLOSED 500 FT)
- W20-3(0)-48 (ROAD CLOSED AHEAD)
- BLACK ARROW ON ORANGE BACKGROUND

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

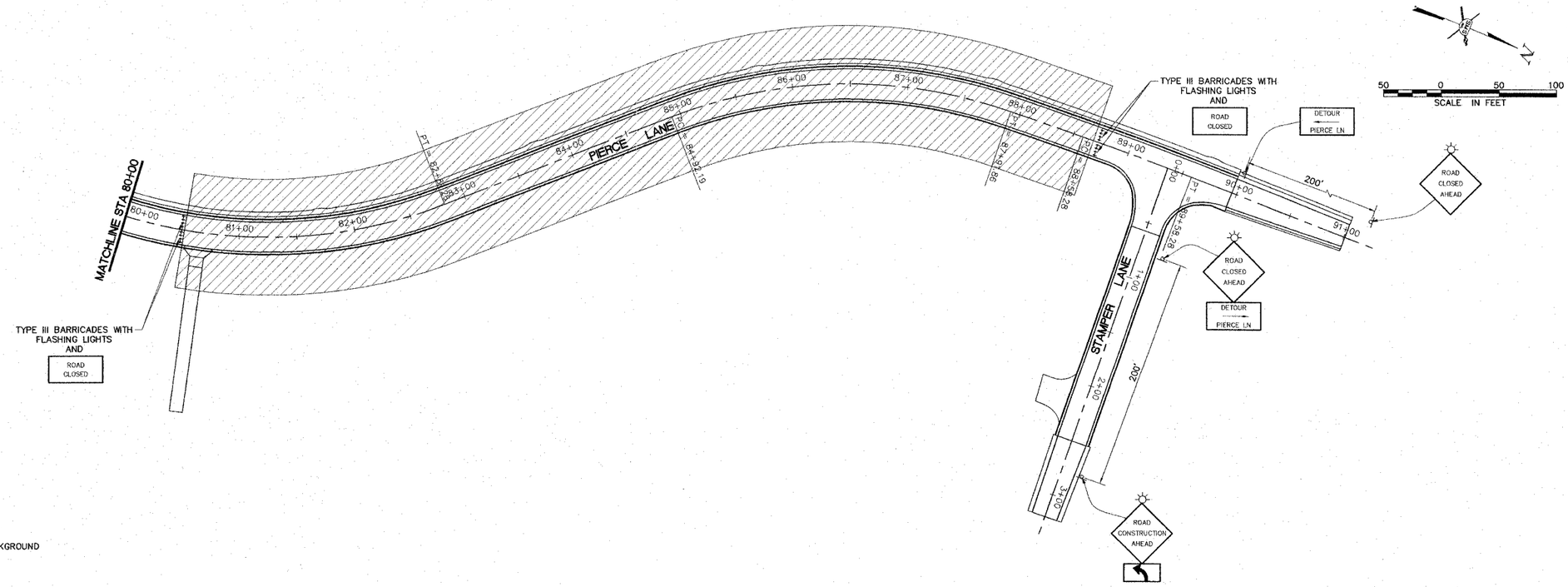
PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
TRAFFIC CONTROL PLAN - STAGE 1 CONSTRUCTION

DWG. NO.	PRC PH3 PAVT_MARK.DWG
REF. BK.	PG.
JOB NO.	43613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=50'
SHEET	22 OF 61



GENERAL NOTES

1. ALL HAZARDS WITHIN THE WORK ZONE SHALL BE PROTECTED WITH TYPE 1 BARRICADES WITH TYPE A FLASHING LIGHTS
2. ALL CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".



SYMBOLS

- WORK AREA
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TYPE II BARRICADE WITH FLASHING LIGHTS
- DRUM WITH FLASHING LIGHT
- CONE
- SIGN
- FLASHING LIGHT
- W20-1(0)-48 (ROAD CONSTRUCTION AHEAD)
- R11-2 (ROAD CLOSED)
- W20-3(0)-48 (ROAD CLOSED 500 FT)
- W20-3(0)-48 (ROAD CLOSED AHEAD)
- BLACK ARROW ON ORANGE BACKGROUND

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Grevas City, IL 62040 618/877-9700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
TRAFFIC CONTROL PLAN - STAGE 2 CONSTRUCTION

DWG. NO.	PRC PH3 PAVT MARK.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BGS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=50'
SHEET	23 OF 61

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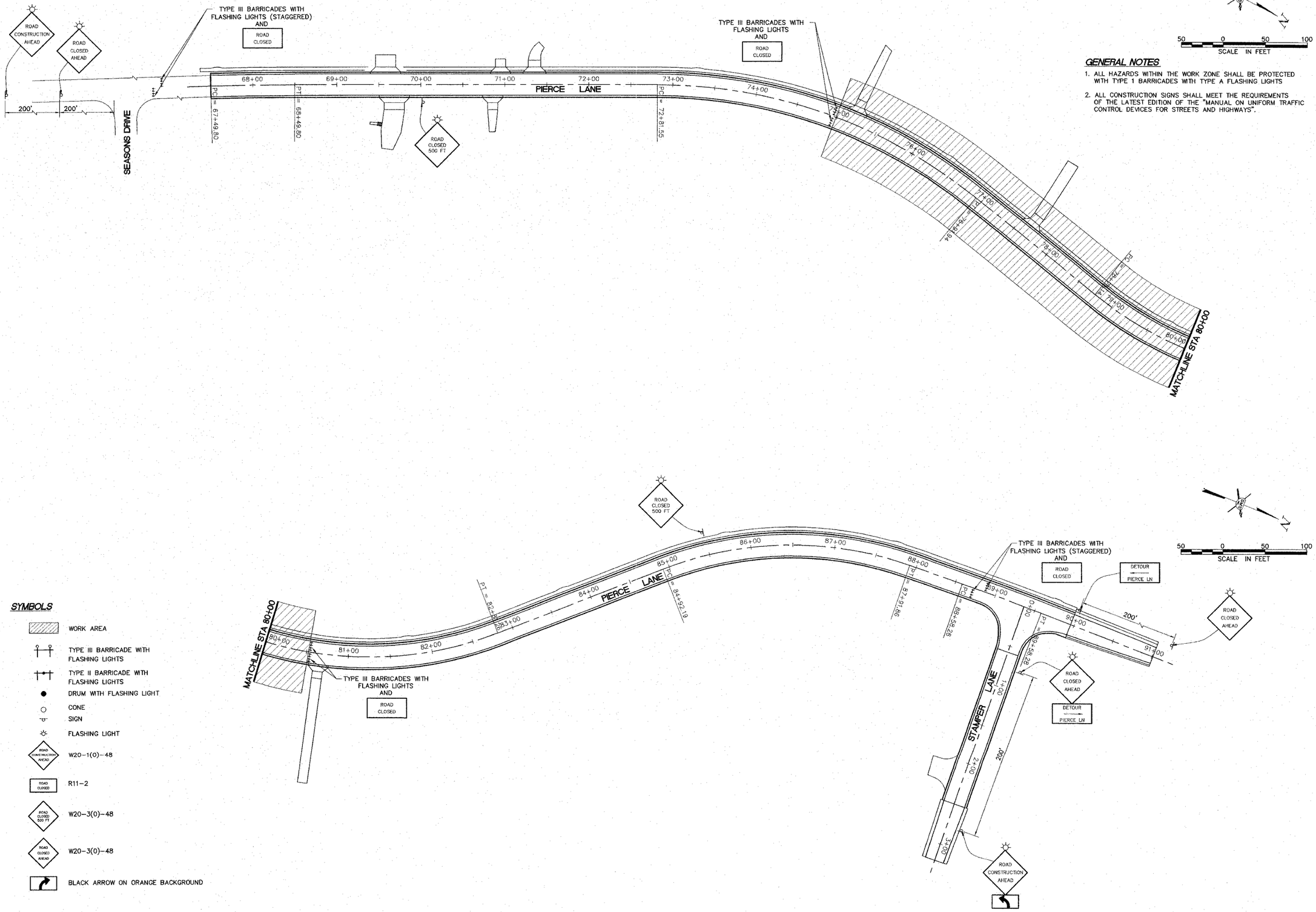

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-9700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
TRAFFIC CONTROL PLAN - STAGE 3 CONSTRUCTION

DWG. NO.	PRC PH3 PAVT_MARK.DWG
REF. BK.	PG.
JOB NO.	4J6613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=50'
SHEET	24 OF 61

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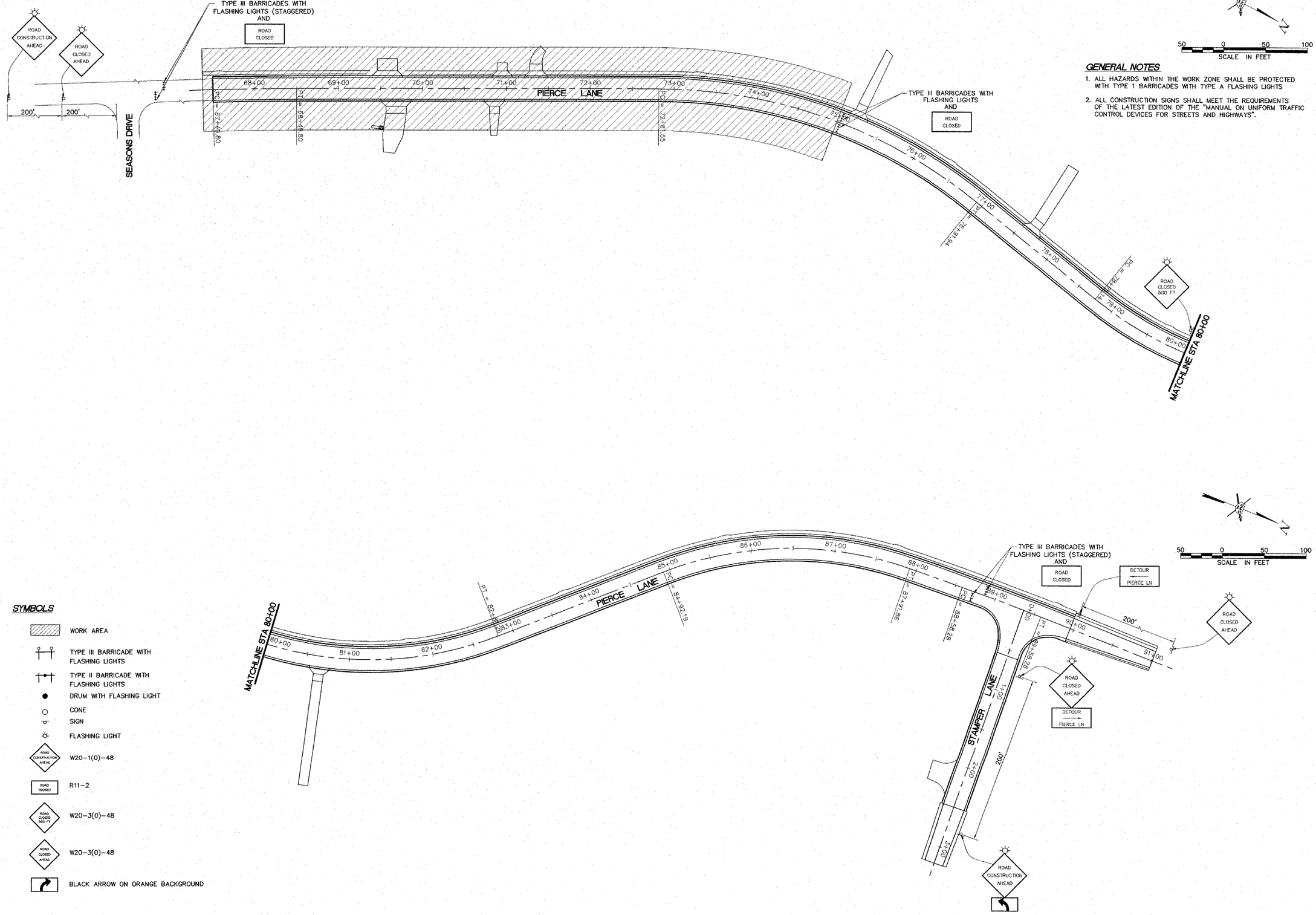
CONTRACT 97343



REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
TRAFFIC CONTROL PLAN - STAGE 4 CONSTRUCTION

DWG. NO.	PRC PH3 PAVT_MARK.DWG
REF. BK.	PG.
JOB NO.	43613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=50'
SHEET	25 OF 61

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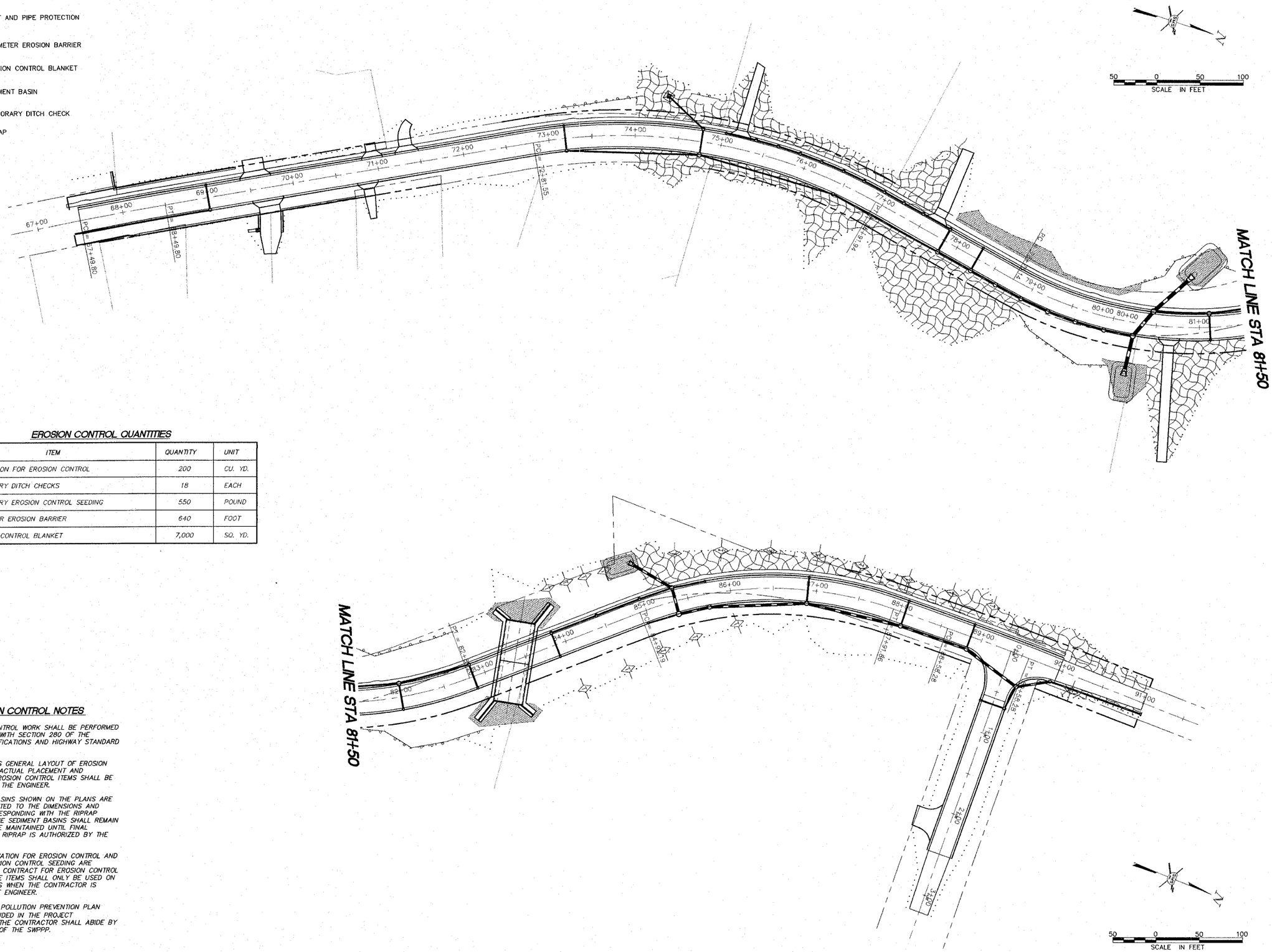
LEGEND

- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- SEDIMENT BASIN
- TEMPORARY DITCH CHECK
- RIPRAP



EROSION CONTROL QUANTITIES

ITEM	QUANTITY	UNIT
EXCAVATION FOR EROSION CONTROL	200	CU. YD.
TEMPORARY DITCH CHECKS	18	EACH
TEMPORARY EROSION CONTROL SEEDING	550	POUND
PERIMETER EROSION BARRIER	640	FOOT
EROSION CONTROL BLANKET	7,000	SQ. YD.

EROSION CONTROL NOTES

1. ALL EROSION CONTROL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARD 280001.
2. THIS PLAN SHOWS GENERAL LAYOUT OF EROSION CONTROL ITEMS. ACTUAL PLACEMENT AND LOCATIONS OF EROSION CONTROL ITEMS SHALL BE AS DIRECTED BY THE ENGINEER.
3. THE SEDIMENT BASINS SHOWN ON THE PLANS ARE TO BE CONSTRUCTED TO THE DIMENSIONS AND LOCATIONS CORRESPONDING WITH THE RIPRAP INSTALLATION. THE SEDIMENT BASINS SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL FINAL INSTALLATION OF RIPRAP IS AUTHORIZED BY THE ENGINEER.
4. THE ITEMS EXCAVATION FOR EROSION CONTROL AND TEMPORARY EROSION CONTROL SEEDING ARE INCLUDED IN THE CONTRACT FOR EROSION CONTROL PURPOSES. THESE ITEMS SHALL ONLY BE USED ON THOSE OCCASIONS WHEN THE CONTRACTOR IS DIRECTED BY THE ENGINEER.
5. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS INCLUDED IN THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL ABIDE BY ALL PROVISIONS OF THE SWPPP.

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-9700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
EROSION CONTROL PLAN

DWG. NO.	PRC PH3 EROSION.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=50'
SHEET	26 OF 61

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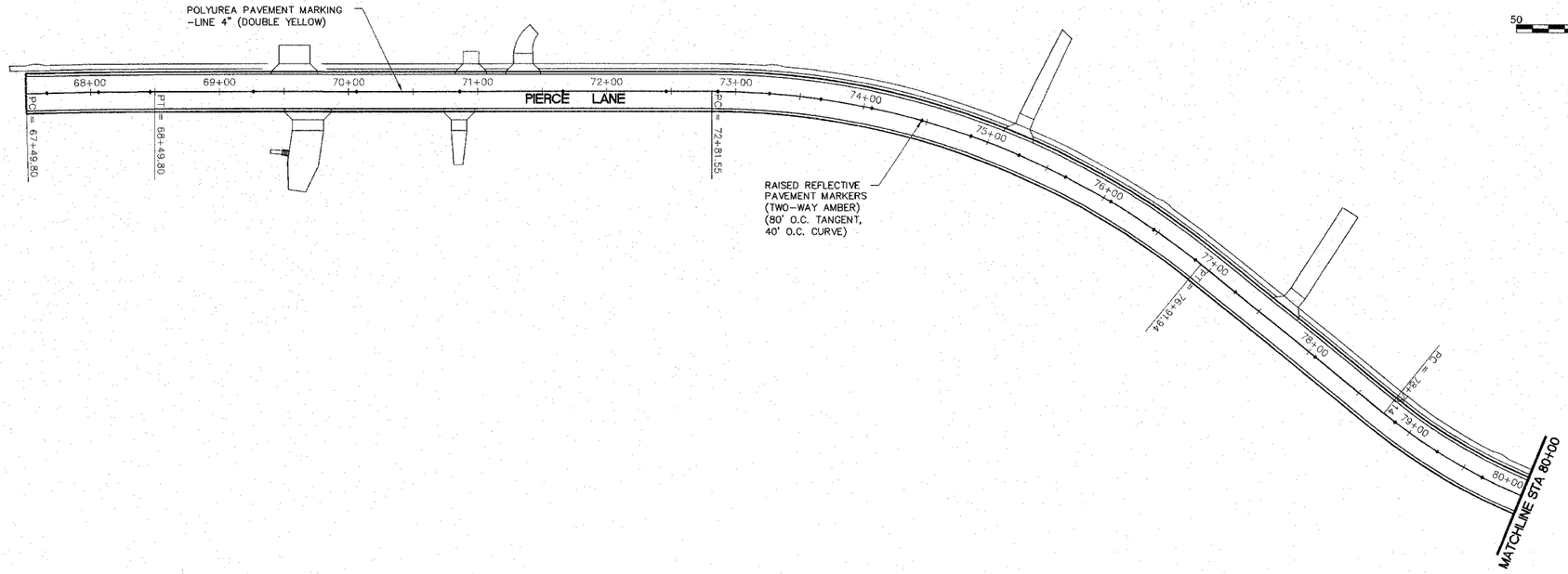
CONTRACT 97343

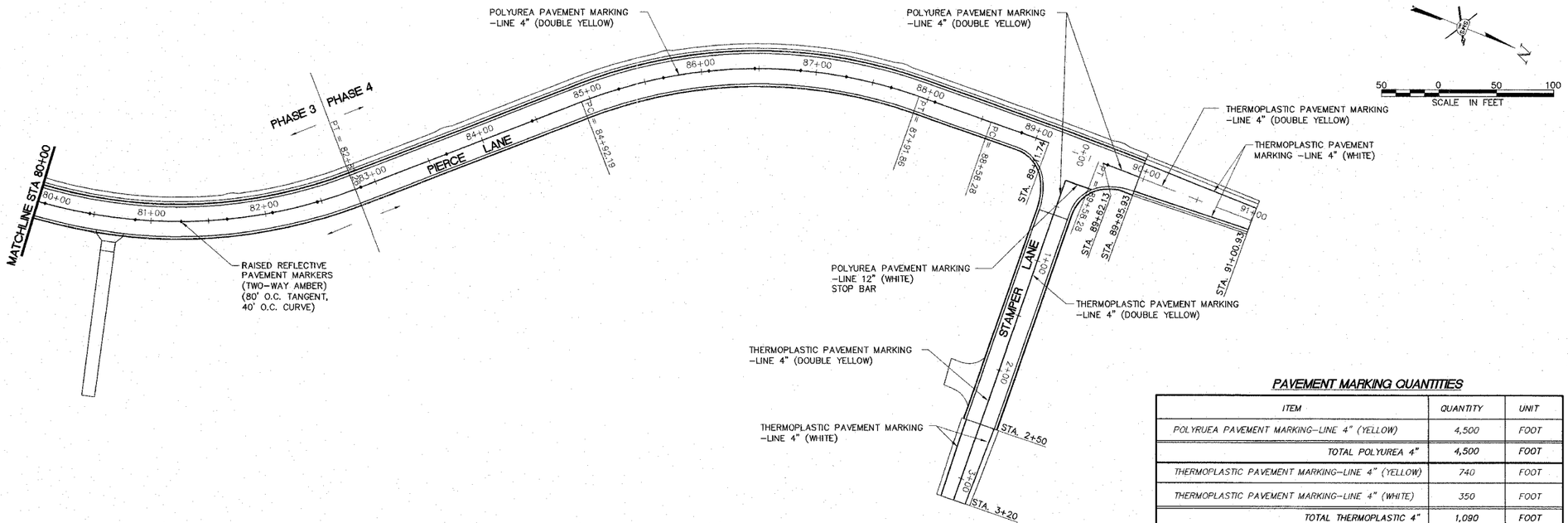
REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-2755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-2700 E-mail: mail@smsengineers.com
DESIGN FIRM # 184--000992

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
INTERSECTION DETAIL - PIERCE LANE AND STAMPER LANE

DWG. NO.	PRC PH3 DET_CONST.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=10'
SHEET	27 OF 61





PAVEMENT MARKING QUANTITIES

ITEM	QUANTITY	UNIT
POLYRUEA PAVEMENT MARKING–LINE 4" (YELLOW)	4,500	FOOT
TOTAL POLYUREA 4"	4,500	FOOT
THERMOPLASTIC PAVEMENT MARKING–LINE 4" (YELLOW)	740	FOOT
THERMOPLASTIC PAVEMENT MARKING–LINE 4" (WHITE)	350	FOOT
TOTAL THERMOPLASTIC 4"	1,090	FOOT
POLYUREA PAVEMENT MARKING–LINE 12" (WHITE)	25	FOOT
TOTAL POLYUREA 12"	25	FOOT
◆ RAISED REFLECTIVE PAVEMENT MARKERS (TWO–WAY AMBER)	44	EACH
TOTAL REFLECTORS	44	EACH

CONTRACT 97343

REVISIONS

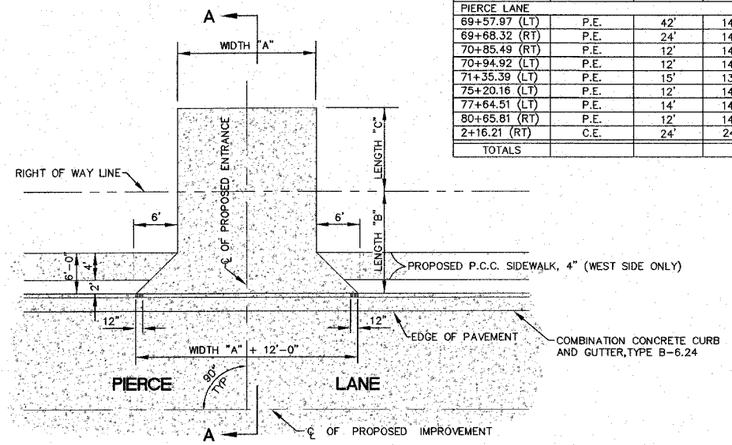
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-9700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
PAVEMENT MARKING PLAN

DWG. NO.	PRC PH3 PAVT_MARK.DWG
REF. BK.	PG.
JOB NO.	436613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	1"=50'
SHEET	28 OF 61

ENTRANCE SCHEDULE

STATION	TYPE OF ENTRACNCE	WIDTH "A"	LENGTH "B"	LENGTH "C"	EXISTING MATERIAL	DRIVEWAY PAVT. REMOVAL (SQ. YDS.)	P.C.C. DRIVEWAY PAVT., 6" (SQ. YDS.)	AGGREGATE SURFACE COURSE, 6" (TONS)	EXISTING GRADE (%)	PROPOSED GRADE (%)	INCIDENTAL HOT-MIX ASPHALT SURFACING, 6" (TONS)
PIERCE LANE											
69+57.97 (LT)	P.E.	42'	14.42'	6.00'	CONCRETE	131	100	–	1.5	7.0	–
69+68.32 (RT)	P.E.	24'	14.42'	47.42'	AGGREGATE	21	45	35	5.3	8.0	–
70+85.49 (RT)	P.E.	12'	14.42'	26.50'	AGGREGATE	16	25	10	8.0	13.2	–
70+94.92 (LT)	P.E.	12'	14.42'	1.18'	AGGREGATE	–	25	–	8.0	8.0	–
71+35.39 (LT)	P.E.	15'	13.96'	21.08'	AGGREGATE	36	30	10	4.4	6.3	–
75+20.16 (LT)	P.E.	12'	14.42'	70.82'	AGGREGATE	–	25	30	13.3	9.2	–
77+64.51 (LT)	P.E.	14'	14.42'	75.43'	BITUMINOUS	39	30	–	6.0	2.0	45
80+65.81 (RT)	P.E.	12'	14.42'	126.33'	BITUMINOUS	94	25	–	3.2	1.7	65
2+16.21 (RT)	C.E.	24'	24.42	1.91	BITUMINOUS	107	–	–			30
TOTALS						444	305	85			140

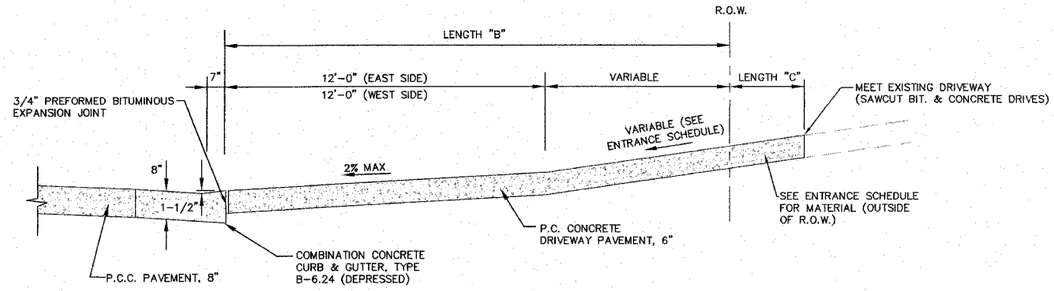


PROPOSED ENTRANCE DETAIL

SCALE: 1"=10'

TREE REMOVAL SCHEDULE

STATION	ACRES
71+47.84 LT. TO 74+67.73 LT.	0.15
80+62.49 LT. TO 81+42.72 LT.	0.05
84+19.60 LT. TO 84+95.91 LT.	0.05
86+83.20 LT. TO 88+50.01 LT.	0.10
72+20.67 RT. TO 80+38.12 RT.	0.80
83+31.23 RT. TO 84+60.21 RT.	0.12
0+79.79 LT. TO 2+50 LT.	0.03
TOTAL	1.30



SECTION A-A

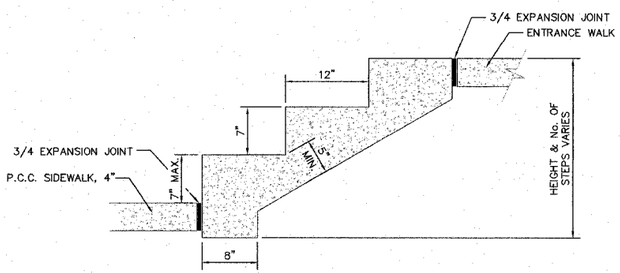
NO SCALE

EARTHWORK SCHEDULE

Phase	Earth / Structure Excavation (Cubic Yard)	Earth Excavation Adjusted for 25% Shrinkage (Cubic Yard)	Embankment (Cubic Yard)	Earthwork Balance Waste (+) or Shortage (-) (Cubic Yard)
3	4,800	3,600	14,706	-11,110
4	1,930	1,448	10,453	-9,010
Total	6,730	5,048	25,159	-20,120

CLASS SI CONCRETE STEP SCHEDULE

STATION	No. OF STEPS	CLASS SI CONCRETE (CUBIC YARDS)
2+16.21 (RT)	5	1



STEP DETAIL

NOT TO SCALE

TREE REMOVAL SCHEDULE

STATION	OFFSET	TREE REMOVAL (6 TO 15 UNITS DIA.) (UNITS)	TREE REMOVAL (OVER 15 UNITS DIA.) (UNITS)	TOTAL No. OF TREES
68+30.22	32.5 LT.		18	1
68+42.74	32.6 LT.	6		1
68+60.12	33.0 LT.	10		1
68+76.15	31.3 LT.		30	1
68+99.52	30.4 LT.		24	1
69+10.77	38.0 LT.	8		1
69+24.17	31.0 LT.		30	1
69+30.12	38.1 RT.	9		1
70+10.43	26.0 LT.		30	1
70+58.55	27.2 LT.	15		1
70+69.51	34.1 RT.	9		1
70+82.92	27.3 LT.		30	1
71+06.68	26.5 LT.		30	1
71+61.87	27.4 RT.	6		1
74+73.95	44.19 LT	12		1
74+91.12	43.4 LT.	9		1
75+02.27	57.1 LT.		18	1
75+05.99	48.1 LT.	14		1
75+11.62	50.1 LT.	10		1
75+14.35	61.5 LT.	12		1
75+15.19	66.3 LT.		20	1
75+18.91	55.4 LT.		18	1
75+88.25	37.4 LT.	9		1
76+29.58	42.8 LT.	15		1
76+35.20	34.5 LT.	15		1
76+52.25	32.8 LT.	6		1
76+56.31	34.6 LT.	6		1
76+58.44	35.6 LT.	12		1
76+66.86	37.0 LT.	10		1
76+67.24	35.6 LT.	10		1
76+77.18	36.4 LT.	12		1
76+81.26	35.8 LT.	12		1
76+85.93	35.4 LT.	14		1
76+87.80	35.7 LT.	10		1
77+36.81	61.0 LT.		18	1
77+46.89	69.8 LT.	12		1
80+72.49	36.2 RT.	15		1
80+72.98	22.5 RT.	12		1
80+80.27	94.6 RT.	12		1
80+83.16	117.6 RT.	15		1
80+86.79	81.5 RT.	14		1
80+91.28	44.9 RT.		19	1
80+91.26	77.0 RT.	9		1
80+93.96	71.0 RT.	10		1
81+00.60	16.6 RT.	9		1
81+00.98	41.2 RT.	11		1
81+22.32	19.2 RT.	12		1
81+22.79	18.1 RT.	9		1
81+76.01	35.5 RT.	12		1
81+84.39	19.1 RT.	12		1
81+84.68	20.3 RT.	8		1
81+91.26	28.7 RT.		17	1
81+91.53	29.0 RT.		17	1
81+92.42	30.0 RT.		17	1
82+02.09	3.1 LT.	15		1
82+21.37	38.6 RT.		20	1
82+26.18	59.9 RT.		26	1
82+30.13	40.8 RT.		19	1
82+35.21	9.6 LT.	12		1
82+53.71	10.1 RT.	7		1
82+63.23	22.9 RT.	8		1
82+63.25	61.3 RT.	11		1
82+64.20	67.32 RT.	8		1
82+69.32	62.2 RT.	15		1
82+71.83	55.8 RT.		24	1
82+73.08	83.31 RT.	6		1
82+74.16	12.3 RT.	9		1
82+81.13	45.0 RT.		24	1
82+84.28	64.8 RT.	9		1
82+89.71	32.2 RT.		24	1
82+93.06	66.4 RT.	9		1
83+10.87	4.3 RT.	10		1
83+11.43	18.9 RT.	9		1
TOTAL		551	473	73

CONTRACT 97343

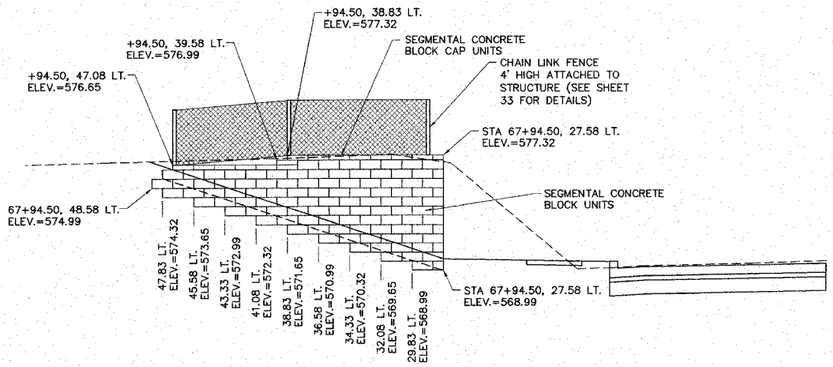
REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-2755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Glenlie City, IL 62040 618/877-4270 E-mail: mail@smsengineers.com

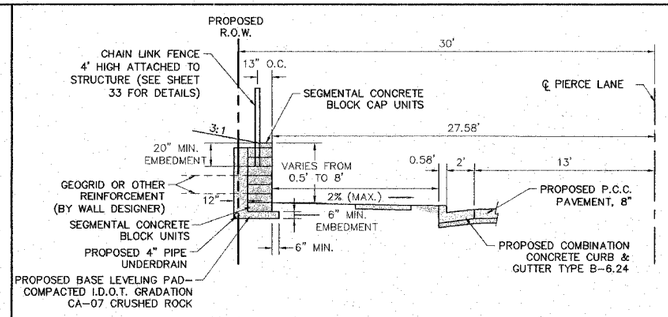
PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
ENTRANCE DETAILS, ENTRANCE SCHEDULE AND CONSTRUCTION SCHEDULE

DWG. NO. PRC PH3 DWY SCH.DWG
REF. BK. PG.
JOB NO. 43661.3
DSN. BY: SJW/DDT
DWN. BY: BCS
CHK. BY: SJW
DATE: FEBRUARY, 2008
SCALE: N.T.S.
SHEET 29 OF 61

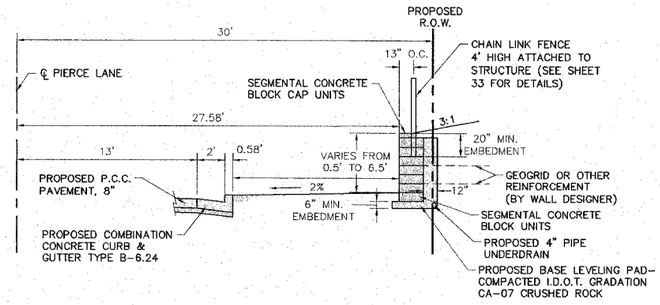
S:\land projects\GODFREY-PIERCE LN PH3 (43661.3)\dwg\PRC PH3 DWY_SCH.dwg, 4/14/2008 8:41:20 AM, bcspeters, 1:10



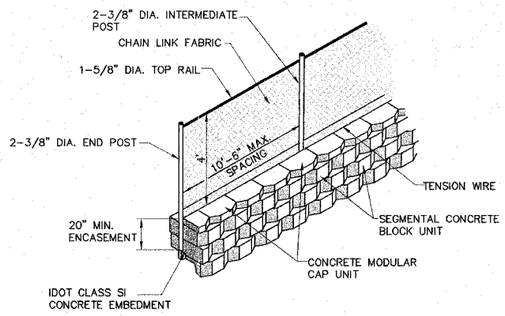
SEGMENTAL CONCRETE BLOCK WALL
STA 67+94.50 LT.
SCALE 1"=5'



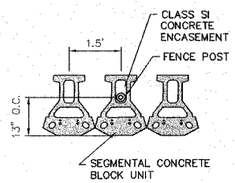
PROPOSED TYPICAL SECTION - SEGMENTAL CONCRETE BLOCK WALL
STA 67+94.50 THRU 69+37.00 LEFT
NOT TO SCALE



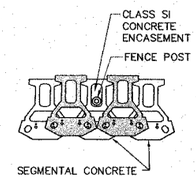
PROPOSED TYPICAL SECTION - SEGMENTAL CONCRETE BLOCK WALL
STA 68+14.25 THRU 70+79.50 RIGHT
NOT TO SCALE



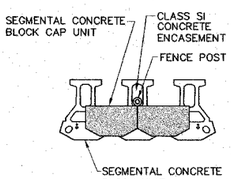
DETAIL - CHAIN LINK FENCE ATTACHED TO STRUCTURE
N.T.S.



FIRST COURSE



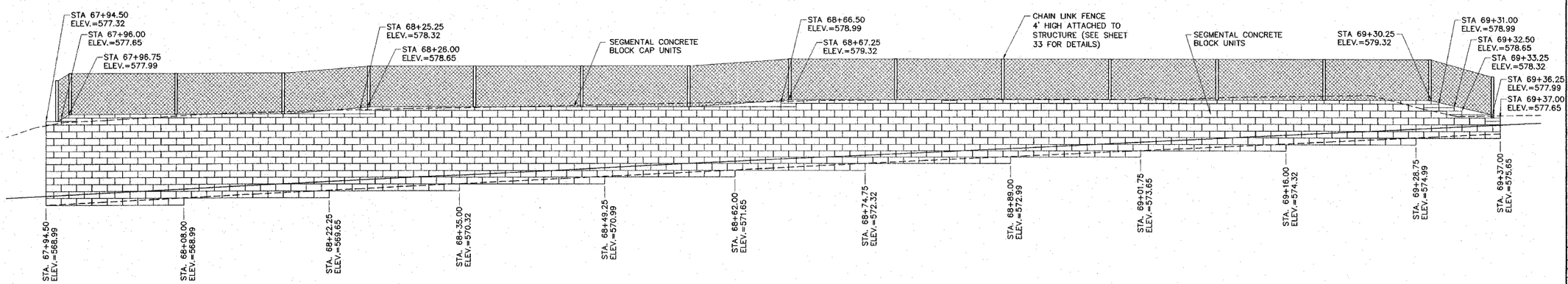
SECOND COURSE



CAP COURSE

POST MOUNTING DETAILS
N.T.S.

1. THE CHAIN LINK FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTIONS 664 AND 1006 OF THE STANDARD SPECIFICATIONS, AND HIGHWAY STANDARD 664001-01.
2. ALL END POSTS AND INTERMEDIATE POSTS SHALL BE 2-3/8" DIAMETER POSTS. THE TOP RAIL SHALL BE 1-5/8" DIAMETER CONNECTED TO THE POSTS WITH GALVANIZED CUPS AND BANDS.
3. THE CHAIN LINK FABRIC SHALL BE ATTACHED TO END POSTS WITH 1/4" X 3/4" GALVANIZED STEEL STRETCHER BARS ANCHORED WITH 1/8" X 1" GALVANIZED STEEL STRETCHER BANDS AT 14" CENTERS
4. POST CENTERS TO BE INCREMENTS OF 1.5' TO FIT UNIT SPACING. (SEE POST MOUNTING DETAILS)



SEGMENTAL CONCRETE BLOCK WALL
STA 67+94.50 LT. TO STA 69+37.00 LT.
SCALE 1"=5'

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-5755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-5700 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
SEGMENTAL CONCRETE BLOCK WALL DETAILS

DWG. NO.	PRC PH3 PP STORM.DWG
REF. BK.	PG.
JOB NO.	4.36613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	AS SHOWN
SHEET	30 OF 61

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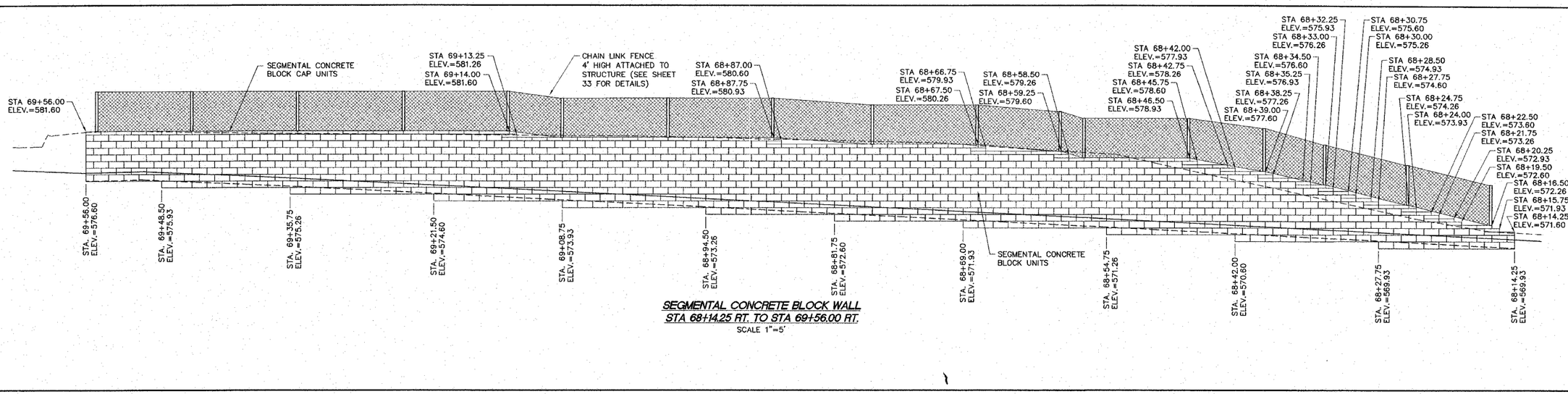
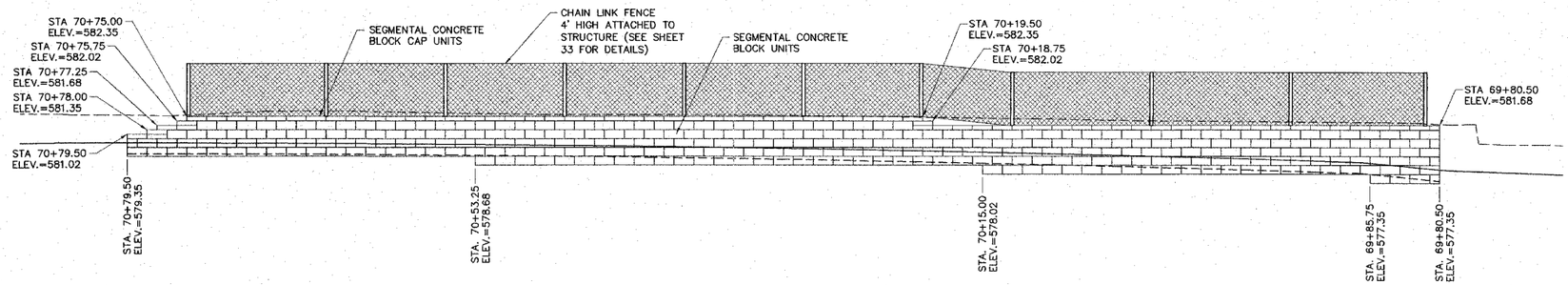
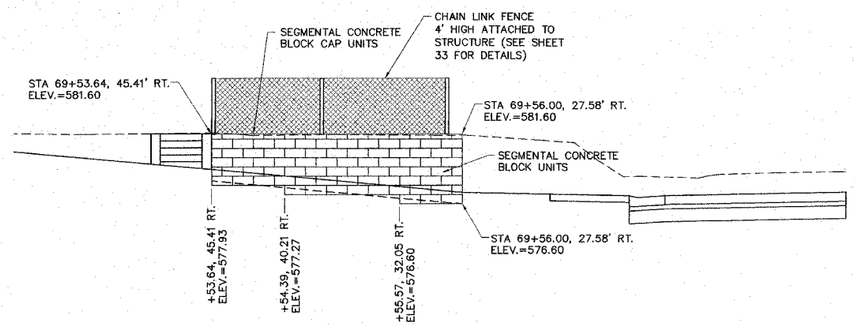


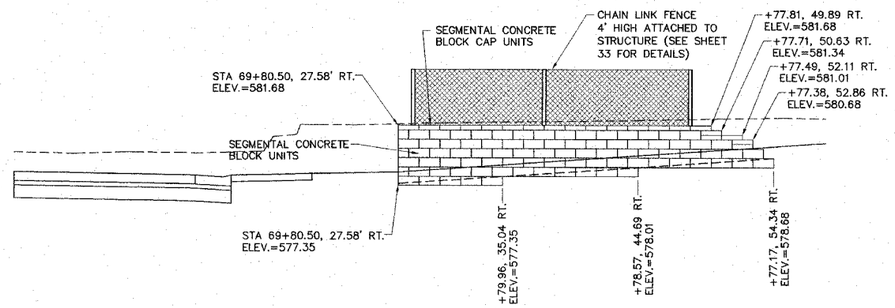
SEGMENTAL CONCRETE BLOCK WALL
STA 68+14.25 RT. TO STA 69+56.00 RT.
SCALE 1"=5'



SEGMENTAL CONCRETE BLOCK WALL
STA 69+80.50 RT. TO STA 70+79.50 RT.
SCALE 1"=5'



SEGMENTAL CONCRETE BLOCK WALL
STA 69+53.64 RT. TO STA 69+56.00 RT.
SCALE 1"=5'



SEGMENTAL CONCRETE BLOCK WALL
STA 69+80.50 RT. TO STA 69+77.17 RT.
SCALE 1"=5'

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
216 Market Street, P.O. Box E, Alton, IL 62002 618/462-2755 E-mail: mail@smengineers.com
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DESIGN FIRM # 184-000992

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
SEGMENTAL CONCRETE BLOCK WALL DETAILS

DWG. NO.	PRC PH3 PP STORM.DWG
REF. BK.	PG.
JOB NO.	43613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	AS SHOWN
SHEET	31 OF 61

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Bench Mark: Iron Bar at Station 84+19.36, 48.20' Rt., Elev. 532.74

Existing Structure: S.N. 060-3053: Built in 1955 as FAU 8985 Section 103 B TR. The structure is a single span steel wide flange beam with a concrete deck superstructure and closed timber abutments. The structure has an out-to-out width ±23'-0", a back-to-back abutment length of 30'-0" and a skew of 30°. To be removed. The project includes roadway realignment, shifting the road to the east and relocating the crossing to accommodate the new alignment.

Traffic Control: The road will be closed during construction and detours will be posted accordingly.

Salvage: None

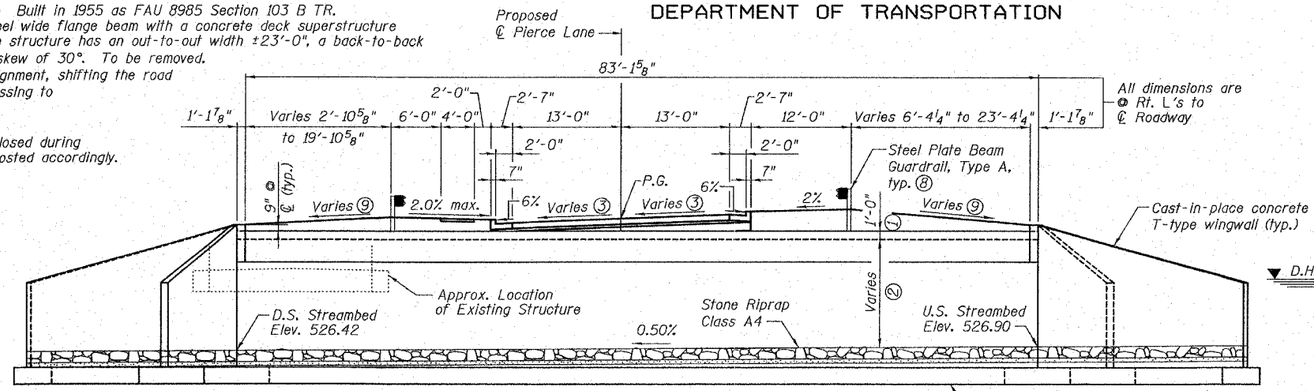
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8985	103 B	MADISON	61	32
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1 3 SHEETS

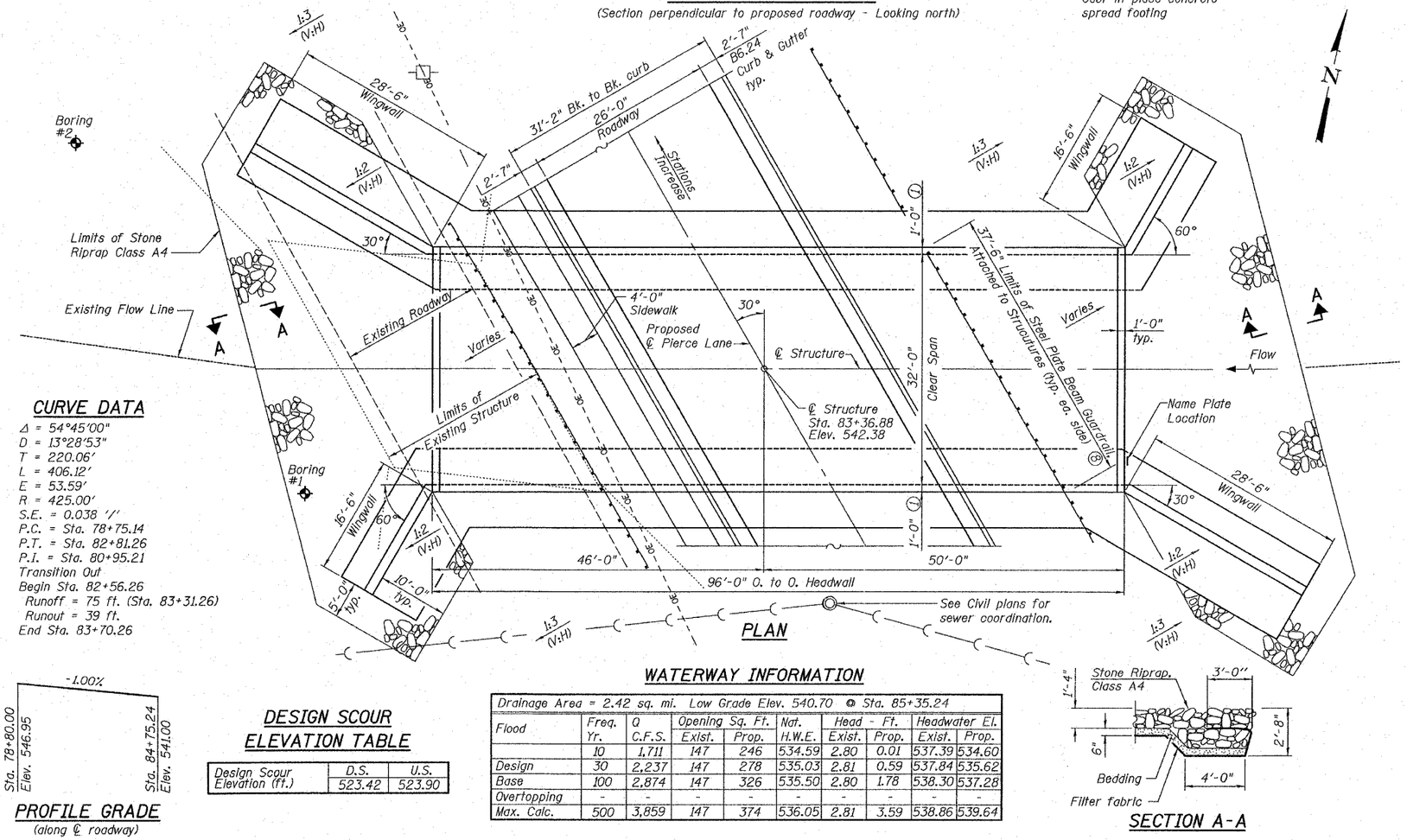
Contract #97343

INDEX OF SHEETS



LONGITUDINAL SECTION

(Section perpendicular to proposed roadway - Looking north)



PLAN

CURVE DATA

Δ = 54°45'00"
D = 13°28'53"
T = 220.06'
L = 406.12'
E = 53.59'
R = 425.00'
S.E. = 0.038 '/'
P.C. = Sta. 78+75.14
P.T. = Sta. 82+81.26
P.I. = Sta. 80+95.21
Transition Out
Begin Sta. 82+56.26
Runoff = 75 ft. (Sta. 83+31.26)
Runout = 39 ft.
End Sta. 83+70.26

PROFILE GRADE

(along ℄ roadway)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S.	U.S.
	523.42	523.90

WATERWAY INFORMATION

Drainage Area = 2.42 sq. mi. Low Grade Elev. 540.70 @ Sta. 85+35.24

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1,711	147	246	534.59	2.80	0.01	537.39	534.60
Design	30	2,237	147	278	535.03	2.81	0.59	537.84	535.62
Base	100	2,874	147	326	535.50	2.80	1.78	538.30	537.28
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	3,859	147	374	536.05	2.81	3.59	538.86	539.64

SECTION A-A

TOTAL BILL OF MATERIAL

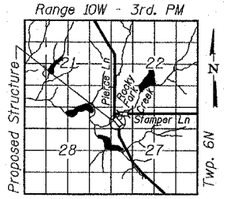
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	2,239
Stone Riprap, Class A4	Sq. Yd.	706
Filter Fabric	Sq. Yd.	706
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	2,345
Concrete Structures	Cu. Yd.	347.1
Reinforcement Bars	Pound	36,700
Reinforcement Bars, Epoxy Coated	Pound	6,830
Name Plates	Each	1
Steel Plate Beam Guard Rail, Attached to Structures	Foot	75
Three-Sided Precast Concrete Structures, 32'x12'	Foot	96

Notes:
① Slab and wall thickness may vary as per manufacturer's design.
② Clear height at structure centerline varies from 13'-0" at upstream end to 13'-5 3/4" at downstream end.
③ See Curve Data for superelevation transition.
④ Max. allowable soil pressure under footing = 3,000 psf.
⑤ Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
⑥ Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
⑦ The three-sided structure footing design is based on the following maximum reactions applied at the top of the pedestal wall:
12.0 kip/ft vertical
6.3 kip/ft horizontal
The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete footing design with calculations, details, and the required seals shall be submitted for review and approval.
⑧ Contractor shall coordinate post spacing with the precast manufacturer. Where required, mount to top of three-sided structure using Std. 630101.
⑨ Vary slope as required to match into top of headwall, 1:3 (V:H) maximum.

ROCKY FORK CREEK
BUILT 200_ BY
VILLAGE OF GODFREY
SECTION 103B
STATION 83+36.88
STRUCTURE NO. 060-6902
LOADING HS20

NAME PLATE

See Std. 515001



LOCATION SKETCH

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (welded wire fabric)

Plans Prepared By:
Oates Associates, Inc.

LICENSED STRUCTURAL ENGINEER
BRUCE P. SCHOPP
081-005158
COLLINSVILLE, ILLINOIS
STATE OF ILLINOIS

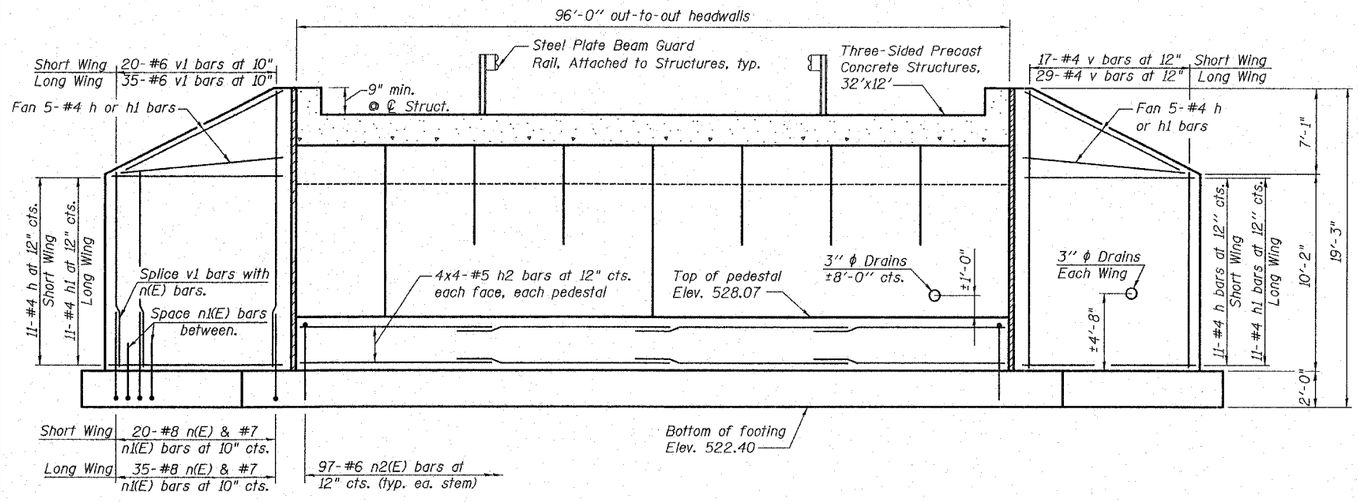
04/17/08
EXPIRES 11/30/08

GENERAL PLAN
PIERCE LANE OVER
ROCKY FORK CREEK
FAU 8985 - SECTION 103B
MADISON COUNTY
STATION 83+36.88
STRUCTURE NO. 060-6902

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FAU 8985	103 B	MADISON	61	32A	SHEET NO. 2
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT-			3 SHEETS

Contract #97343

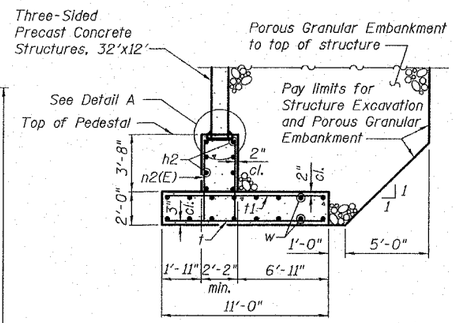


REINF.-BACK FACE

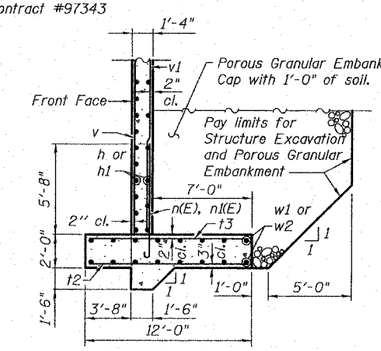
LONGITUDINAL SECTION

Dimensions along ℄ structure

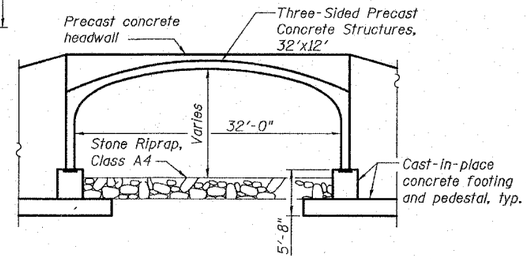
REINF.-FRONT FACE



SECTION B-B



SECTION C-C

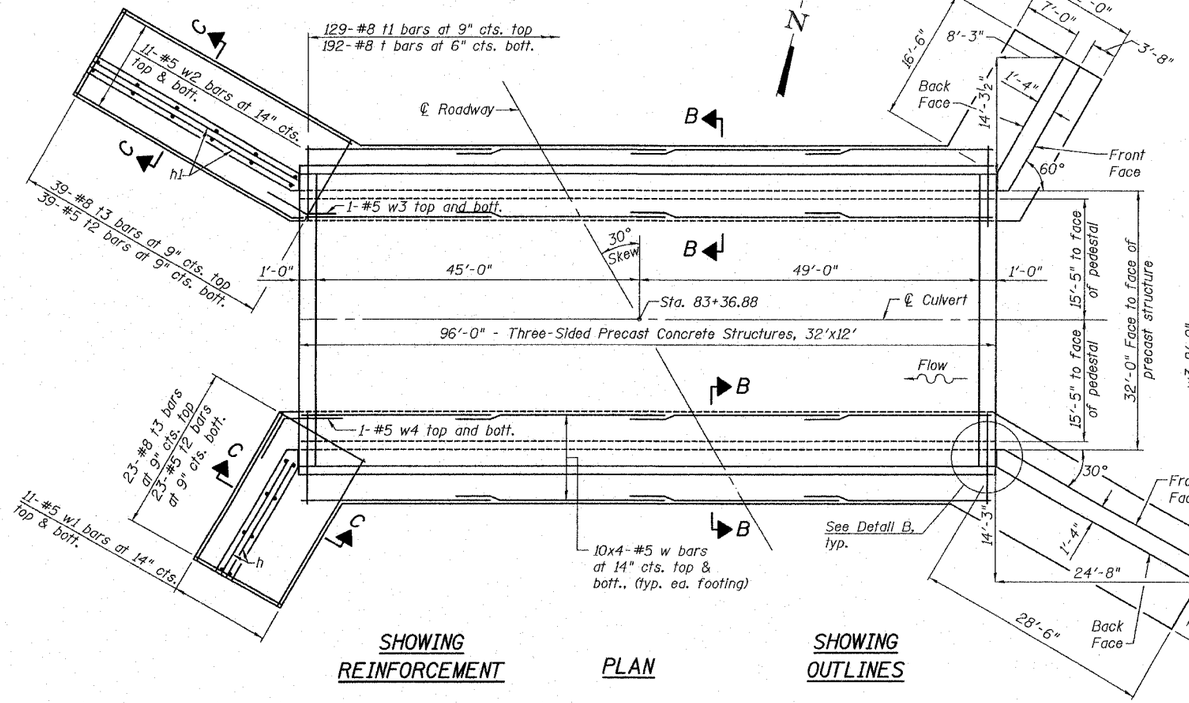


TYP. SECTION THRU STRUCTURE

(℄ Rt. L's to ℄ structure)

BILL OF MATERIAL

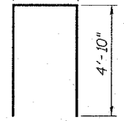
Bar	No.	Size	Length	Shape
h	64	#4	16'-2"	
h1	64	#4	28'-2"	
h2	64	#5	25'-9"	
n(E)	110	#8	8'-4"	
n1(E)	110	#7	4'-7"	
n2(E)	194	#6	11'-6"	
t	384	#8	10'-8"	
t1	258	#8	10'-8"	
t2	124	#5	11'-8"	
t3	124	#8	11'-8"	
v	46	#4	26'-9"	
v1	55	#6	26'-9"	
w	160	#5	25'-9"	
w1	44	#5	16'-2"	
w2	44	#5	28'-2"	
w3	4	#5	8'-0"	
w4	4	#5	8'-0"	
Concrete Structures			Cu. Yd.	347.1
Reinforcement Bars			Pound	36,700
Reinforcement Bars, Epoxy Coated			Pound	6,830



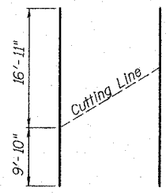
SHOWING REINFORCEMENT

PLAN

SHOWING OUTLINES

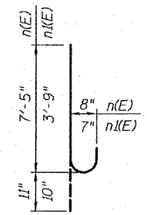


BAR n2(E)

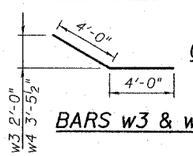


CUTTING DIAGRAM v & v1 BARS

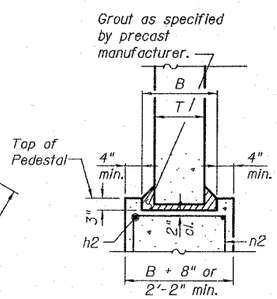
Order v & v1 bars full length. Cut bars as shown and use half in the west and half in the east wingwalls.



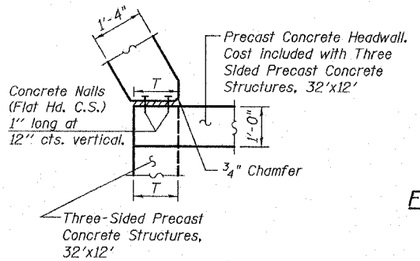
BARS n(E) & n1(E)



BARS w3 & w4



DETAIL A ⑤



DETAIL B ⑤

Notes:
1. Bars indicated thus 4x4-#5 etc. indicates 4 lines of bars with 4 lengths per line.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. All edges shall have a standard ¾" chamfer.
4. Minimum lap length: #5 bar - 2'-5"
   #8 bar - 3'-8"
5. Dimensions B & T as specified by the Three-Sided Precast Concrete Structure manufacturer.

PLAN AND DETAILS
PIERCE LANE OVER
ROCKY FORK CREEK
FAU 8985 - SECTION 103B
MADISON COUNTY
STA. 83+36.88
STRUCTURE NO. 060-6902

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8985	103 B	MADISON	61	32B
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
3 SHEETS

Contract #97343

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG

Page 1 of 2

Date 01/25/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. B-1 Station 83+40.82 Offset 24.55 ft Lt. Ground Surface Elev. 532.8 ft

Surface Water Elev. ft Stream Bed Elev. ft

Groundwater Elev.: First Encounter 524.3 ft ▼ Upon Completion ft Ⓒ After 24 Hrs. 532.8 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, low plastic sandy clay (A-6)			
529.8	1 1 2	0.2 S/S	21
SILTY CLAY: Brown, low plastic, trace sand (A-6)			
524.8 ▼	1 1 1	0.4 S/10	27
SANDY CLAY: Brown, low plastic (A-6)			
522.3	1 3 5	3.1 B	19
CLAY: Brown, high plastic, some sand (A-7)			
519.8	3 7 10	3.3 B	20
SILT: Brown, low plastic (A-6)			
517.3	5 15 21	1.4 S/15	22
CLAY: Brown and gray, high plastic, trace to some sand (A-7)			
Grades to trace gravel, organics	5 7 10	2.8 B	20
30	2 3 8	2.2 B	21

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
512.3			
SILTY CLAY: Brown, low plastic (A-6)			
509.8	3 4 6	2.0 B	24
CLAY: Brown, high plastic, some sand (A-7)			
Grades to trace organics	2 4 7	1.8 B	21
35	3 3 4	1.5 B	23
	2 5 8	0.8 B	21
	2 4 4	0.6 B	23
Grades to trace sand	3 4 5	<0.25 P	28
45			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Page 2 of 2

Date 01/25/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. B-1 Station 83+40.82 Offset 24.55 ft Lt. Ground Surface Elev. 532.8 ft

Surface Water Elev. ft Stream Bed Elev. ft

Groundwater Elev.: First Encounter 524.3 ft ▼ Upon Completion ft Ⓒ After 24 Hrs. 532.8 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, high plastic, some sand (A-7) (continued)			
Grades to some sand	3 5 6	0.5 B	25
45	2 4 6	1.3 B	20
50	3 4 6	0.8 B	20

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, high plastic, some sand (A-7) (continued)			
469.8	4 5 6	0.9 B	20
CLAYEY SILT: Gray, low plastic (A-4)			
460.8	4 7 13	1.4 S/15	23
CLAY: Brown, high plastic, trace sand, trace limestone fragments (A-7)			
457.8	4 10 0004"	<0.25 P	31
Borehole continued with rock coring.			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — ROCK CORE LOG

Page 1 of 1

Date 01/25/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison CORING METHOD NW Wireline

STRUCT. NO. Station

BORING NO. B-1 Station 83+40.82 Offset 24.55 ft Lt. Ground Surface Elev. 532.8 ft

CORING BARREL TYPE & SIZE NW (wire line - 101)
Core Diameter 2 in
Top of Rock Elev. 457.8 ft
Begin Core Elev. 457.8 ft

DEPTH (ft)	RECOVERY (ft)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray, hard to very hard, aphanitic, medium to thick bedded, slightly weathered, and dense				
457.8	1	96	9	
453.3				
Boring terminated at 78.5 feet.				

Color pictures of the cores Yes
Cores will be stored for examination until
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Page 1 of 2

Date 01/26/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. B-2 Station 83+97.00 Offset 28.99 ft Lt. Ground Surface Elev. 532.7 ft

Surface Water Elev. ft Stream Bed Elev. ft

Groundwater Elev.: First Encounter 519.2 ft ▼ Upon Completion 510.2 ft ▽ After 3 Hrs. 529.7 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY: Brown, low plastic, trace to some sand, trace organics (A-6)			
529.7 ▽	1 1 0	0.5 S/10	27
SANDY CLAY: dark brown, low plastic, trace organics, gravel (A-6)			
Sand content increases	0 1 1	0.1 S/10	23
524.7	0 1 2	0.2 B	17
CLAY: Brown, high plastic, some sand (A-7)			
Becomes brown and gray	2 5 6	3.0 B	21
Becomes olive gray	3 7 11	2.9 B	18
15	3 6 8	3.7 B	19
Becomes brown and grades to trace organics	10 7 8	3.0 B	22
30	4 6 13	2.4 B	19

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, high plastic, some sand (A-7) (continued)			
Grades to trace limestone fragments	7 10 12	2.1 B	19
35	5 6 7	1.3 B	19
504.7	3 5 9	1.4 B	18
CLAYEY SAND: Brown, fine (A-2)			
500.7	4 8 14	-	21
CLAY: Brown and gray, high plastic, trace sand, organics (A-7)			
45	5 5 6	1.2 B	27
Grades to some sand, trace rock	2 5 14	1.1 B	18
50			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Page 2 of 2

Date 01/26/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. B-2 Station 83+97.00 Offset 28.99 ft Lt. Ground Surface Elev. 532.7 ft

Surface Water Elev. ft Stream Bed Elev. ft

Groundwater Elev.: First Encounter 519.2 ft ▼ Upon Completion 510.2 ft ▽ After 3 Hrs. 529.7 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown and gray, high plastic, trace sand, organics (A-7) (continued)			
Becomes brown and grades to trace sand	1 4 5	1.4 B	22
Grades to some sand, trace limestone fragments (plant fossil)	1 5 6	1.0 B	22
30	3 5 7	1.3 B	21
40	3 4 6	1.2 B	21

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown and gray, high plastic, trace sand, organics (A-7) (continued)			
496.2	3 6 8	1.5 B	21
Auger refusal at 66.5 feet.			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Page 1 of 1

Date 01/26/07

ROUTE Pierce Lane DESCRIPTION Retaining Wall Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. R-3 Station 80+34.12 Offset 28.37 ft Lt. Ground Surface Elev. 540.2 ft

Surface Water Elev. ft Stream Bed Elev. ft

Groundwater Elev.: First Encounter Not Observed ft Upon Completion Not Observed ft After ___ Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, high plastic clay, some sand, trace shale fragments (A-7)			
5	2 5 6	1.3 B	21
10	3 6 12	1.8 B	20
15	13 16 14	4.5 P	17
Grades to trace limestone fragments	3 7 14	1.8 P	19
527.2			
CLAY: Gray, high plastic, some sand (A-7)	3 7		
No recovery	8		
20	3 3 4	1.1 B	23
520.2			

Boring terminated at 20 feet.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

BORING LOGS
PIERCE LANE OVER
ROCKY FORK CREEK
FAU 8985 - SECTION 103B
MADISON COUNTY
STA. 83+36.88
STRUCTURE NO. 060-6902

SUPERELEVATED CURVE TABLE

CURVE No. 2

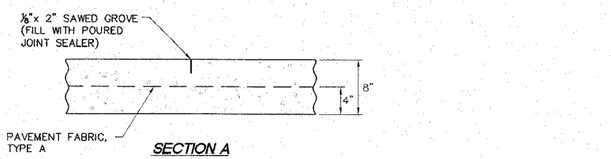
Sta	Top of Curb Elevation	Left Edge of Pavement Elevation	Pavement Cross Slope (ft/ft)	Centerline Pavement Elevation	Pavement Cross Slope (ft/ft)	Right Edge of Pavement Elevation	Top of Curb Elevation
71+97.88	577.80	577.42	−2.00%	577.68	−2.00%	577.42	577.80
72+00	577.73	577.35	−1.89%	577.60	−2.00%	577.34	577.72
72+10	577.74	577.36	1.38%	577.18	−2.00%	576.92	577.30
72+20	577.25	576.87	0.87%	576.76	−2.00%	576.50	576.88
72+30	576.68	576.30	0.36%	576.25	−2.00%	575.99	576.37
72+36.88	576.29	575.91	0.00%	575.91	−2.00%	575.65	576.03
72+40	575.65	575.27	0.14%	575.25	−2.00%	574.99	575.37
72+50	575.72	575.34	0.66%	575.25	−2.00%	574.99	575.37
72+60	575.28	574.90	1.16%	574.75	−2.00%	574.49	574.87
72+70	574.85	574.47	1.67%	574.25	−2.00%	573.99	574.37
72+80	574.41	574.03	2.18%	573.75	−2.18%	573.47	573.85
72+90	573.98	573.60	2.69%	573.25	−2.69%	572.90	573.28
73+00	573.55	573.17	3.20%	572.75	−3.20%	572.33	572.71
73+03.88	573.38	573.00	3.40%	572.56	−3.40%	572.12	572.50
73+10	573.07	572.69	3.40%	572.25	−3.40%	571.81	572.19
73+20	572.57	572.19	3.40%	571.75	−3.40%	571.31	571.69
73+30	572.07	571.69	3.40%	571.25	−3.40%	570.81	571.19
73+40	571.57	571.19	3.40%	570.75	−3.40%	570.31	570.69
73+50	571.07	570.69	3.40%	570.25	−3.40%	569.81	570.19
73+60	570.57	570.19	3.40%	569.75	−3.40%	569.31	569.69
73+70	570.07	569.69	3.40%	569.25	−3.40%	568.81	569.19
73+80	569.57	569.19	3.40%	568.75	−3.40%	568.31	568.69
73+90	569.07	568.69	3.40%	568.25	−3.40%	567.81	568.19
74+00	568.57	568.19	3.40%	567.75	−3.40%	567.31	567.69
74+10	568.07	567.69	3.40%	567.25	−3.40%	566.81	567.19
74+20	567.57	567.19	3.40%	566.75	−3.40%	566.31	566.69
74+30	567.07	566.69	3.40%	566.25	−3.40%	565.81	566.19
74+40	566.57	566.19	3.40%	565.75	−3.40%	565.31	565.69
74+50	566.07	565.69	3.40%	565.25	−3.40%	564.81	565.19
74+60	565.57	565.19	3.40%	564.75	−3.40%	564.31	564.69
74+70	565.07	564.69	3.40%	564.25	−3.40%	563.81	564.19
74+80	564.57	564.19	3.40%	563.75	−3.40%	563.31	563.69
74+90	564.07	563.69	3.40%	563.25	−3.40%	562.81	563.19
75+00	563.57	563.19	3.40%	562.75	−3.40%	562.31	562.69
75+10	563.07	562.69	3.40%	562.25	−3.40%	561.81	562.19
75+20	562.57	562.19	3.40%	561.75	−3.40%	561.31	561.69
75+30	562.07	561.69	3.40%	561.25	−3.40%	560.81	561.19
75+40	561.57	561.19	3.40%	560.75	−3.40%	560.31	560.69
75+50	561.07	560.69	3.40%	560.25	−3.40%	559.81	560.19
75+60	560.57	560.19	3.40%	559.75	−3.40%	559.31	559.69
75+70	560.07	559.69	3.40%	559.25	−3.40%	558.81	559.19
75+80	559.57	559.19	3.40%	558.75	−3.40%	558.31	558.69
75+90	559.07	558.69	3.40%	558.25	−3.40%	557.81	558.19
76+00	558.57	558.19	3.40%	557.75	−3.40%	557.31	557.69
76+10	558.07	557.69	3.40%	557.25	−3.40%	556.81	557.19
76+20	557.57	557.19	3.40%	556.75	−3.40%	556.31	556.69
76+30	557.07	556.69	3.40%	556.25	−3.40%	555.81	556.19
76+40	556.57	556.19	3.40%	555.75	−3.40%	555.31	555.69
76+50	556.07	555.69	3.40%	555.25	−3.40%	554.81	555.19
76+60	555.57	555.19	3.40%	554.75	−3.40%	554.31	554.69
76+69.61	555.09	554.71	3.40%	554.27	−3.40%	553.83	554.21
76+80	554.50	554.12	2.87%	553.75	−2.87%	553.38	553.76
76+90	553.94	553.56	2.36%	553.25	−2.36%	552.94	553.32
77+00	553.37	552.99	1.85%	552.75	−2.00%	552.49	552.87
77+10	552.80	552.42	1.34%	552.25	−2.00%	551.99	552.37
77+20	552.24	551.86	0.83%	551.75	−2.00%	551.49	551.87
77+30	551.68	551.30	0.32%	551.26	−2.00%	551.00	551.38
77+36.61	551.33	550.95	0.00%	550.95	−2.00%	550.69	551.07
77+40	551.16	550.78	−0.19%	550.80	−2.00%	550.54	550.92
77+50	550.65	550.27	−0.70%	550.36	−2.00%	550.10	550.48
77+60	550.17	549.79	−1.20%	549.95	−2.00%	549.69	550.07
77+70	549.72	549.34	−1.71%	549.56	−2.00%	549.30	549.68
77+75.61	549.50	549.12	−2.00%	549.38	−2.00%	549.12	549.50

CURVE No. 3

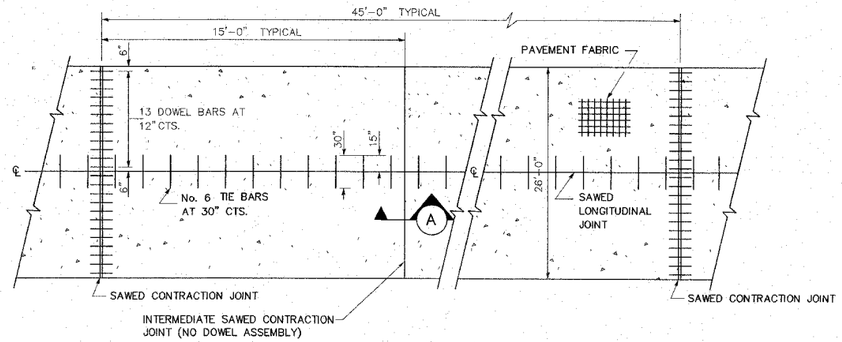
Sta	Top of Curb Elevation	Left Edge of Pavement Elevation	Pavement Cross Slope (ft/ft)	Centerline Pavement Elevation	Pavement Cross Slope (ft/ft)	Right Edge of Pavement Elevation	Top of Curb Elevation
77+88.14	549.11	548.73	−2.00%	548.99	−2.00%	548.73	549.11
77+90	548.98	548.60	−2.00%	548.86	−1.80%	548.63	549.01
78+00	548.67	548.29	−2.00%	548.55	−1.29%	548.38	548.76
78+10	548.38	548.00	−2.00%	548.26	−0.79%	548.16	548.54
78+20	548.12	547.74	−2.00%	548.00	−0.28%	547.96	548.34
78+25.14	547.99	547.61	−2.00%	547.87	0.00%	547.87	548.25
78+30	547.88	547.50	−2.00%	547.76	0.23%	547.79	548.17
78+40	547.67	547.29	−2.00%	547.55	0.74%	547.65	548.03
78+50	547.48	547.10	−2.00%	547.36	1.25%	547.52	547.90
78+60	547.32	546.94	−2.00%	547.20	1.76%	547.43	547.81
78+70	547.14	546.76	−2.27%	547.06	2.27%	547.35	547.73
78+80	546.97	546.59	−2.78%	546.95	2.78%	547.31	547.69
78+90	546.80	546.42	−3.28%	546.85	3.28%	547.28	547.66
79+00.14	546.64	546.26	−3.80%	546.75	3.80%	547.24	547.62
79+10	546.54	546.16	−3.80%	546.65	3.80%	547.14	547.52
79+20	546.44	546.06	−3.80%	546.55	3.80%	547.04	547.42
79+30	546.34	545.96	−3.80%	546.45	3.80%	546.94	547.32
79+40	546.24	545.86	−3.80%	546.35	3.80%	546.84	547.22
79+50	546.14	545.76	−3.80%	546.25	3.80%	546.74	547.12
79+60	546.04	545.66	−3.80%	546.15	3.80%	546.64	547.02
79+70	545.94	545.56	−3.80%	546.05	3.80%	546.54	546.92
79+80	545.84	545.46	−3.80%	545.95	3.80%	546.44	546.82
79+90	545.74	545.36	−3.80%	545.85	3.80%	546.34	546.72
80+00	545.64	545.26	−3.80%	545.75	3.80%	546.24	546.62
80+10	545.54	545.16	−3.80%	545.65	3.80%	546.14	546.52
80+20	545.44	545.06	−3.80%	545.55	3.80%	546.04	546.42
80+30	545.34	544.96	−3.80%	545.45	3.80%	545.94	546.32
80+40	545.24	544.86	−3.80%	545.35	3.80%	545.84	546.22
80+50	545.14	544.76	−3.80%	545.25	3.80%	545.74	546.12
80+60	545.04	544.66	−3.80%	545.15	3.80%	545.64	546.02
80+70	544.94	544.56	−3.80%	545.05	3.80%	545.54	545.92
80+80	544.84	544.46	−3.80%	544.95	3.80%	545.44	545.82
80+90	544.74	544.36	−3.80%	544.85	3.80%	545.34	545.72
81+00	544.64	544.26	−3.80%	544.75	3.80%	545.24	545.62
81+10	544.54	544.16	−3.80%	544.65	3.80%	545.14	545.52
81+20	544.44	544.06	−3.80%	544.55	3.80%	545.04	545.42
81+30	544.34	543.96	−3.80%	544.45	3.80%	544.94	545.32
81+40	544.24	543.86	−3.80%	544.35	3.80%	544.84	545.22
81+50	544.14	543.76	−3.80%	544.25	3.80%	544.74	545.12
81+60	544.04	543.66	−3.80%	544.15	3.80%	544.64	545.02
81+70	543.94	543.56	−3.80%	544.05	3.80%	544.54	544.92
81+80	543.84	543.46	−3.80%	543.95	3.80%	544.44	544.82
81+90	543.74	543.36	−3.80%	543.85	3.80%	544.34	544.72
82+00	543.64	543.26	−3.80%	543.75	3.80%	544.24	544.62
82+10	543.54	543.16	−3.80%	543.65	3.80%	544.14	544.52
82+20	543.44	543.06	−3.80%	543.55	3.80%	544.04	544.42
82+30	543.34	542.96	−3.80%	543.45	3.80%	543.94	544.32
82+40	543.24	542.86	−3.80%	543.35	3.80%	543.84	544.22
82+50	543.14	542.76	−3.80%	543.25	3.80%	543.74	544.12
82+56.26	543.08	542.70	−3.80%	543.19	3.80%	543.68	544.06
82+60	543.06	542.68	−3.61%	543.15	3.61%	543.62	544.00
82+70	543.03	542.65	−3.10%	543.05	3.10%	543.45	543.83
82+80	542.99	542.61	−2.59%	542.95	2.59%	543.29	543.67
82+90	542.96	542.58	−2.08%	542.85	2.08%	543.12	543.50
83+00	542.87	542.49	−2.00%	542.75	1.57%	542.95	543.33
83+10	542.77	542.39	−2.00%	542.65	1.07%	542.79	543.17
83+20	542.67	542.29	−2.00%	542.55	0.56%	542.62	543.00
83+31.26	542.56	542.18	−2.00%	542.44	0.00%	542.44	542.82
83+40	542.47	542.09	−2.00%	542.35	−0.46%	542.29	542.67
83+50	542.37	541.99	−2.00%	542.25	−0.97%	542.12	542.50
83+60	542.27	541.89	−2.00%	542.15	−1.48%	541.96	542.34
83+70.26	542.17	541.79	−2.00%	542.05	−2.00%	541.79	542.17

CURVE No. 4

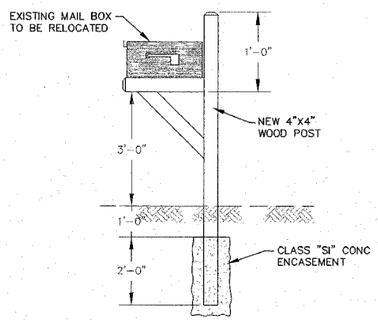
Sta	Top of Curb Elevation	Left Edge of Pavement Elevation	Pavement Cross Slope (ft/ft)	Centerline Pavement Elevation	Pavement Cross Slope (ft/ft)	Right Edge of Pavement Elevation	Top of Curb Elevation
84+03.19	541.84	541.46	−2.00%	541.72	−2.00%	541.46	541.84
84+10	541.82	541.44	−1.65%	541.65	−2.00%	541.39	541.77
84+20	541.78	541.40	−1.14%	541.55	−2.00%	541.29	541.67
84+30	541.75	541.37	−0.64%	541.45	−2.00%	541.19	541.57
84+40	541.71	541.33	−0.13%	541.35	−2.00%	541.09	541.47
84+42.19	541.71	541.33	0.00%	541.33	−2.00%	541.07	541.45
84+50	541.68	541.30	0.38%	541.25	−2.00%	540.99	541.37
84+60	541.65	541.27	0.89%	541.15	−2.00%	540.89	541.27
84+70	541.61	541.23	1.40%	541.05	−2.00%	540.79	541.17
84+80	541.58	541.20	1.91%	540.95	−2.00%	540.69	541.07
84+90	541.56	541.18	2.42%	540.87	−2.42%	540.56	540.94
85+00	541.56	541.18	2.93%	540.80	−2.93%	540.42	540.80
85+10	541.58	541.20	3.43%	540.75	−3.43%	540.30	540.68
85+17.19	541.60	541.22	3.80%	540.73	−3.80%	540.24	540.62
85+20	541.59	541.21	3.80%	540.72	−3.80%	540.23	540.61
85+30	541.59	541.21	3.80%	540.72	−3.80%	540.23	540.61
85+40	541.57	541.19	3.80%	540.70	−3.80%	540.21	540.59
85+50	541.59	541.21	3.80%	540.72	−3.80%	540.23	540.61
85+60	541.62	541.24	3.80%	540.75	−3.80%	540.26	540.64
85+70	541.67	541.29	3.80%	540.80	−3.80%	540.31	540.69
85+80	541.74	541.36	3.80%	540.87	−3.80%	540.38	540.76
85+90	541.82	541.44	3.80%	540.95	−3.80%	540.46	540.84
86+00	541.92	541.54	3.80%	541.05	−3.80%	540.56	540.94
86+10	542.02	541.64	3.80%	541.15	−3.80%	540.66	541.04
86+20	542.12	541.74	3.80%	541.25	−3.80%	540.76	541.14
86+30	542.22	541.84	3.80%	541.35	−3.80%	540.88	541.24
86+40	542.32	541.94	3.80%	541.45	−3.80%	540.96	541.34
86+50	542.42	542.04	3.80%	541.55	−3.80%	541.06	541.44
86+60	542.52	542.14	3.80%	541.65	−3.80%	541.16	541.54
86+70	542.62	542.24	3.80%	541.75	−3.80%	541.26	541.64
86+80	542.72	542.34	3.80%	541.85	−3.80%	541.36	541.74
86+90	542.82	542.44	3.80%	541.95	−3.80%	541.46	541.84
87+00	542.92	542.54	3.80%	542.05	−3.80%	541.56	541.94
87+10	543.02	542.64	3.80%	542.15	−3.80%	541.66	542.04
87+20	543.14	542.76	3.80%	542.27	−3.80%	541.78	542.16
87+30	543.28	542.90	3.80%	542.41	−3.80%	541.92	542.30
87+40	543.45	543.07	3.80%	542.58	−3.80%	542.09	542.47
87+50	543.64	543.26	3.80%	542.77	−3.80%	542.28	542.66
87+60	543.85	543.47	3.80%	542.98	−3.80%	542.49	542.87
87+66.86	544.00	543.62	3.80%	543.13	−3.80%	542.64	543.02
87+70	544.06	543.68	3.64%	543.21	−3.64%	542.74	543.12
87+80	544.25	543.87	3.13%	543.46	−3.13%	543.05	543.43
87+90	544.46	544.08	2.62%	543.74	−2.62%	543.40	543.78
88+00	544.69	544.31	2.11%	544.04	−2.11%	543.77	544.15
88+10	544.93	544.55	1.61%	544.34	−2.00%	544.08	544.46
88+20	545.16	544.78	1.10%	544.64	−2.00%	544.38	544.76
88+30	545.40	545.02	0.59%	544.94	−2.00%	544.68	545.06
88+40	545.63	545.25	0.08%	545.24	−2.00%	544.98	545.36
88+41.86	545.68	545.30	0.00%	545.30	−2.00%	545.04	545.42
88+50	545.88	545.48	−0.43%	545.54	−2.00%	545.28	545.66
88+60	546.10	545.72	−0.94%	545.84	−2.00%	545.58	545.96
88+70	546.33	545.95	−1.45%	546.14	−2.00%	545.88	546.26
88+80.86	546.59	546.21	−2.00%	546.47	−2.00%	546.21	546.59



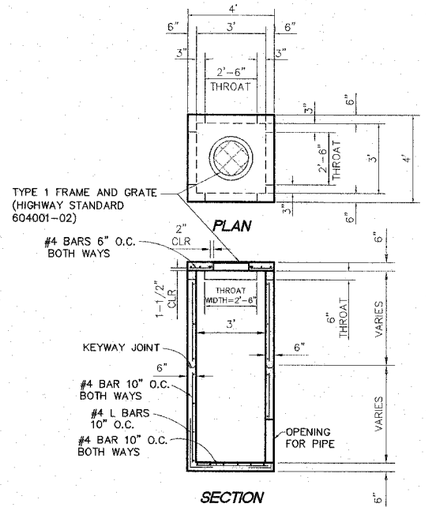
SECTION A
N.T.S.



DETAIL - PAVEMENT JOINT LAYOUT
N.T.S.



DETAIL - MAIL BOX SUPPORT
N.T.S.



DETAIL INLET 3'x3'
N.T.S.

CONTRACT 97343

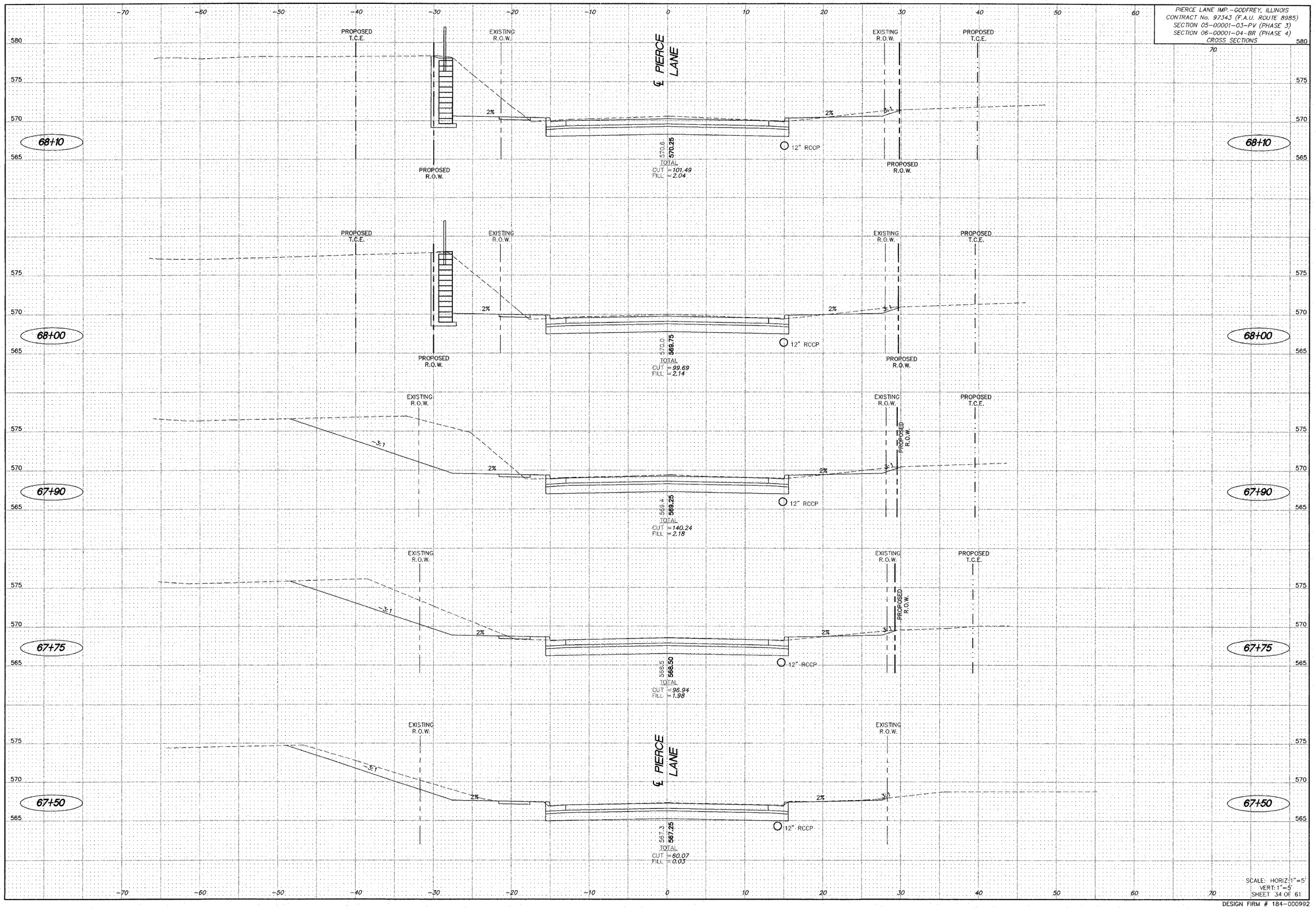
REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-3755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-3700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
DETAILS OF CONSTRUCTION

DWG. NO.	PRC PH3 DET_CONST.DWG
REF. BK.	PG.
JOB NO.	4.36613
DSN. BY:	SJW/DDT
DWN. BY:	BCS
CHK. BY:	SJW
DATE:	FEBRUARY, 2008
SCALE:	N.T.S.
SHEET	33 OF 61

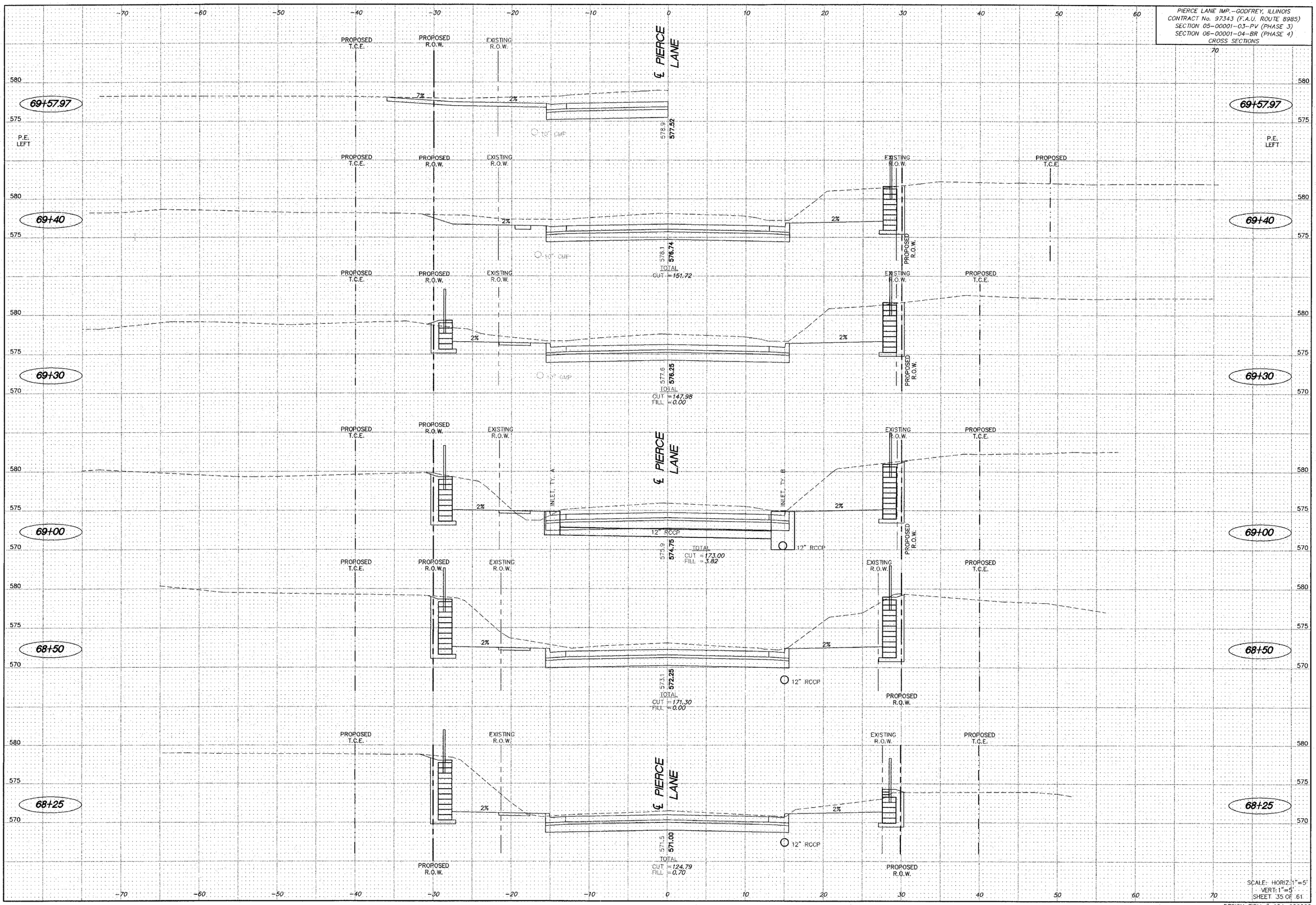
PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS



SCALE: HORIZ: 1"=5'
VERT: 1"=5'
SHEET 34 OF 61

DESIGN FIRM # 184-000992

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

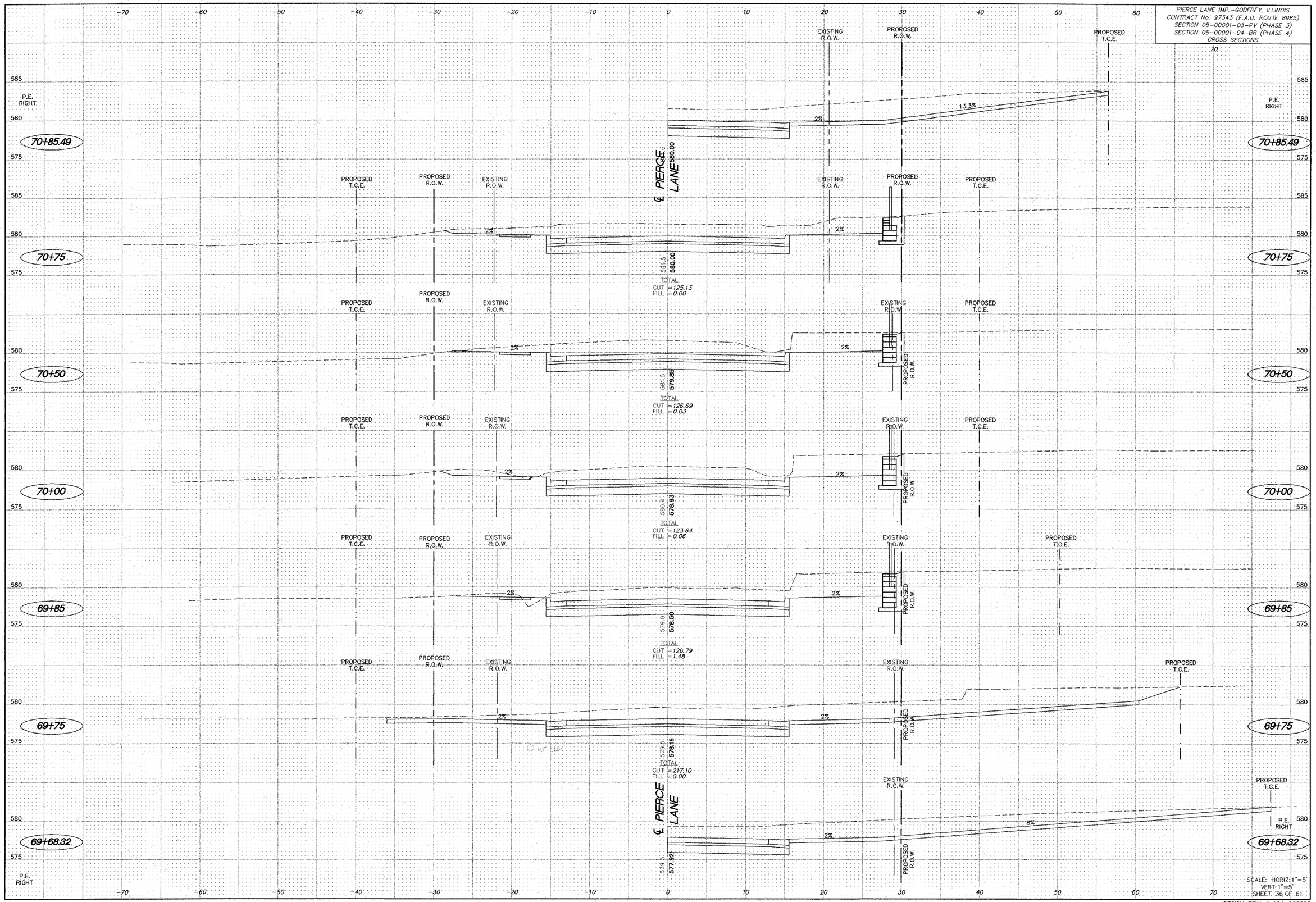


SCALE: HORIZ.: 1"=5'
VERT: 1"=5'
SHEET 35 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH 3 (45861)\dwg\PRC PH3 XSEC.dwg, 4/18/2008 2:36:24 PM, bdejelers, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS



DESIGN FIRM # 184-000992

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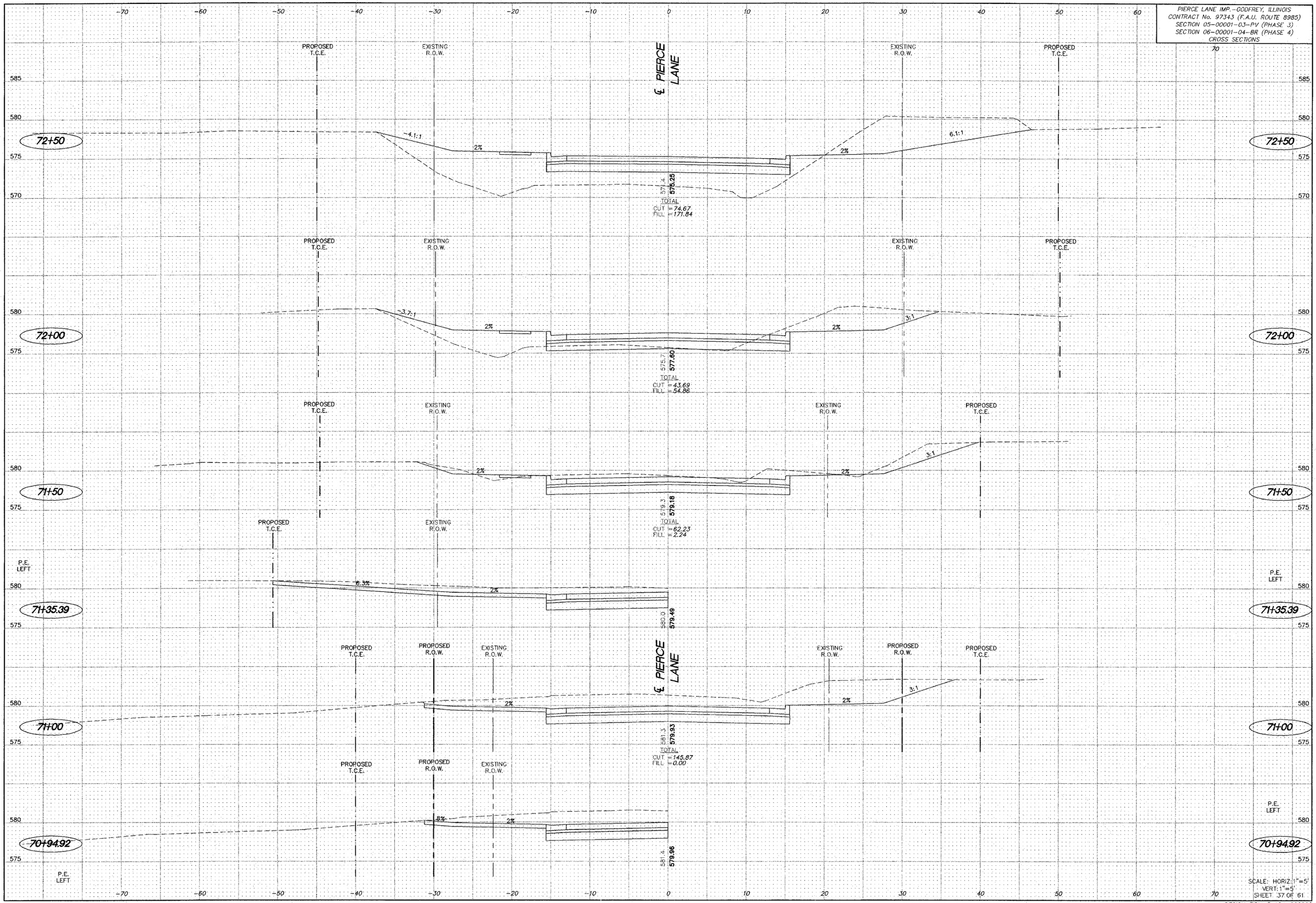
PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS



SCALE: HORIZ.: 1"=5'
VERT: 1"=5'
SHEET 37 OF 61

DESIGN FIRM # 184-000992

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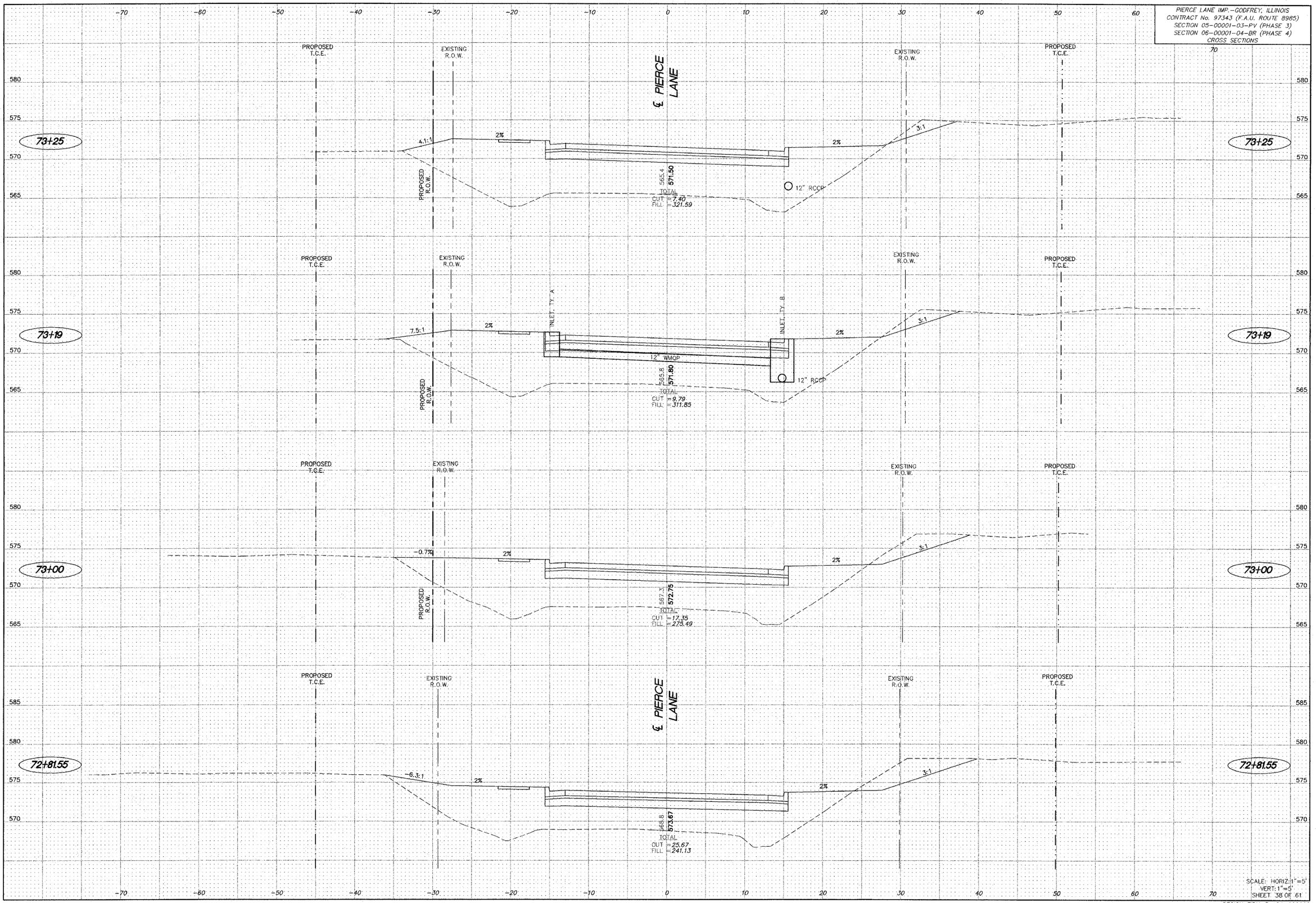
PIERCE LANE IMP.–GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05–00001–03–PV (PHASE 3)
SECTION 06–00001–04–BR (PHASE 4)
CROSS SECTIONS



DESIGN FIRM # 184–000992

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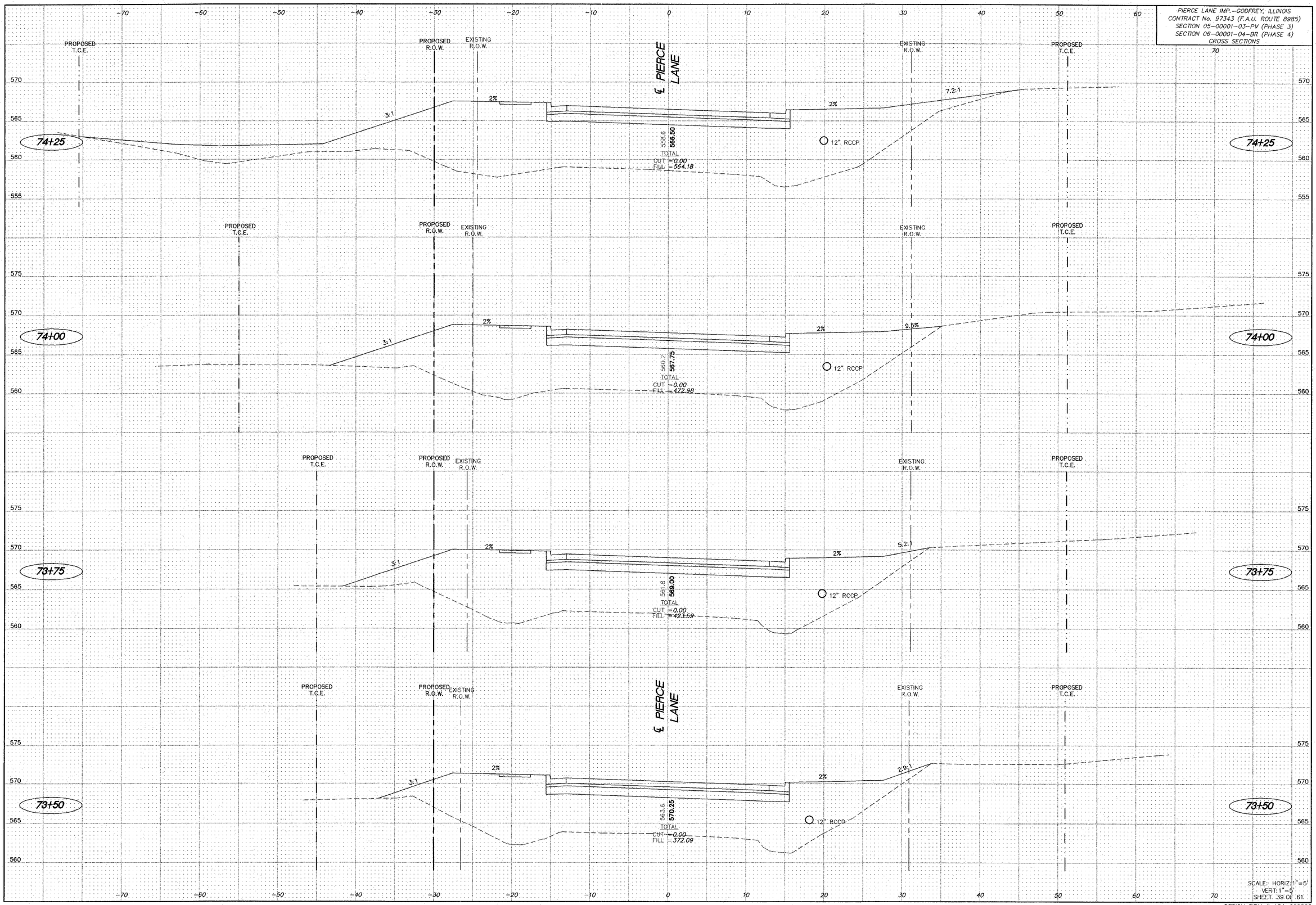
PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS



SCALE: HORIZ: 1"=5'
VERT: 1"=5'
SHEET 39 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN Ph3 (43661)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 2:51:22 PM, bstpeters, 1:5

PIERCE LANE IMP.–GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05–00001–03–PV (PHASE 3)
SECTION 06–00001–04–BR (PHASE 4)
CROSS SECTIONS

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

℄ PIERCE LANE

PROPOSED T.C.E. | PROPOSED R.O.W. | EXISTING R.O.W. | EXISTING R.O.W. | PROPOSED R.O.W. | PROPOSED T.C.E.

570 565 560 555

75+00

2% 2%

555.1 **562.75**

TOTAL
CUT = 0.00
FILL = 310.80

12" RCCP

74+77

PROPOSED T.C.E. | PROPOSED R.O.W. | EXISTING R.O.W. | EXISTING R.O.W. | PROPOSED T.C.E.

INLET, TY. A

MH, 4' DIA

3:1 2% 2%

12" WMQP 12" WMQP 12" RCCP 12" RCCP

555.9 **563.90**

TOTAL
CUT = 0.00
FILL = 495.54

15" CMP

74+75

PROPOSED T.C.E. | PROPOSED R.O.W. | EXISTING R.O.W. | EXISTING R.O.W. | PROPOSED T.C.E.

3:1 2% 2%

12" WMQP 12" RCCP

556.0 **564.00**

TOTAL
CUT = 0.00
FILL = 499.60

15" CMP

74+50

PROPOSED T.C.E. | PROPOSED P.D.E. | PROPOSED R.O.W. | EXISTING R.O.W. | EXISTING R.O.W. | PROPOSED T.C.E.

3:1 2% 2% 9.5%

12" WMQP 12" RCCP

557.3 **565.25**

TOTAL
CUT = 0.00
FILL = 646.99

℄ PIERCE LANE

SCALE: HORIZ.:1"=5'
VERT: 1"=5'
SHEET 40 OF 61

DESIGN FIRM # 184–000992

S:\Land Projects\GODFREY–PIERCE LN PH3 (A98013)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 2:57:47 PM, Jstpeters, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

76+25

-2.9% | 2% | 2%
PROPOSED T.C.E. | PROPOSED R.O.W. | EXISTING R.O.W. | EXISTING R.O.W. | PROPOSED R.O.W. | PROPOSED T.C.E.
12" WMQP | 12" RCCP
551.1 | 556.50
TOTAL CUT = 0.00 FILL = 316.33

76+00

-6.5% | 2% | 2% | 5.1%
PROPOSED T.C.E. | PROPOSED R.O.W. | EXISTING R.O.W. | EXISTING R.O.W. | PROPOSED R.O.W. | PROPOSED T.C.E.
12" WMQP | 12" RCCP
551.9 | 557.75
TOTAL CUT = 9.12 FILL = 309.36

℄ PIERCE LANE

75+75

-5.8% | 2% | 2%
PROPOSED T.C.E. | PROPOSED R.O.W. | EXISTING R.O.W. | EXISTING R.O.W. | PROPOSED R.O.W. | PROPOSED T.C.E.
12" WMQP | 12" RCCP
552.7 | 559.00
TOTAL CUT = 4.01 FILL = 331.24

75+50

-3.8% | 2% | 2% | 9.4%
PROPOSED T.C.E. | PROPOSED R.O.W. | EXISTING R.O.W. | EXISTING R.O.W. | PROPOSED R.O.W. | PROPOSED T.C.E.
12" WMQP | 12" RCCP
553.4 | 560.25
TOTAL CUT = 0.00 FILL = 385.72

75+20.16

P.E. LEFT | FOLD LINE
-10.9% | 2%
PROPOSED T.C.E. | PROPOSED R.O.W. | EXISTING R.O.W.
12" WMQP
554.4 | 561.74

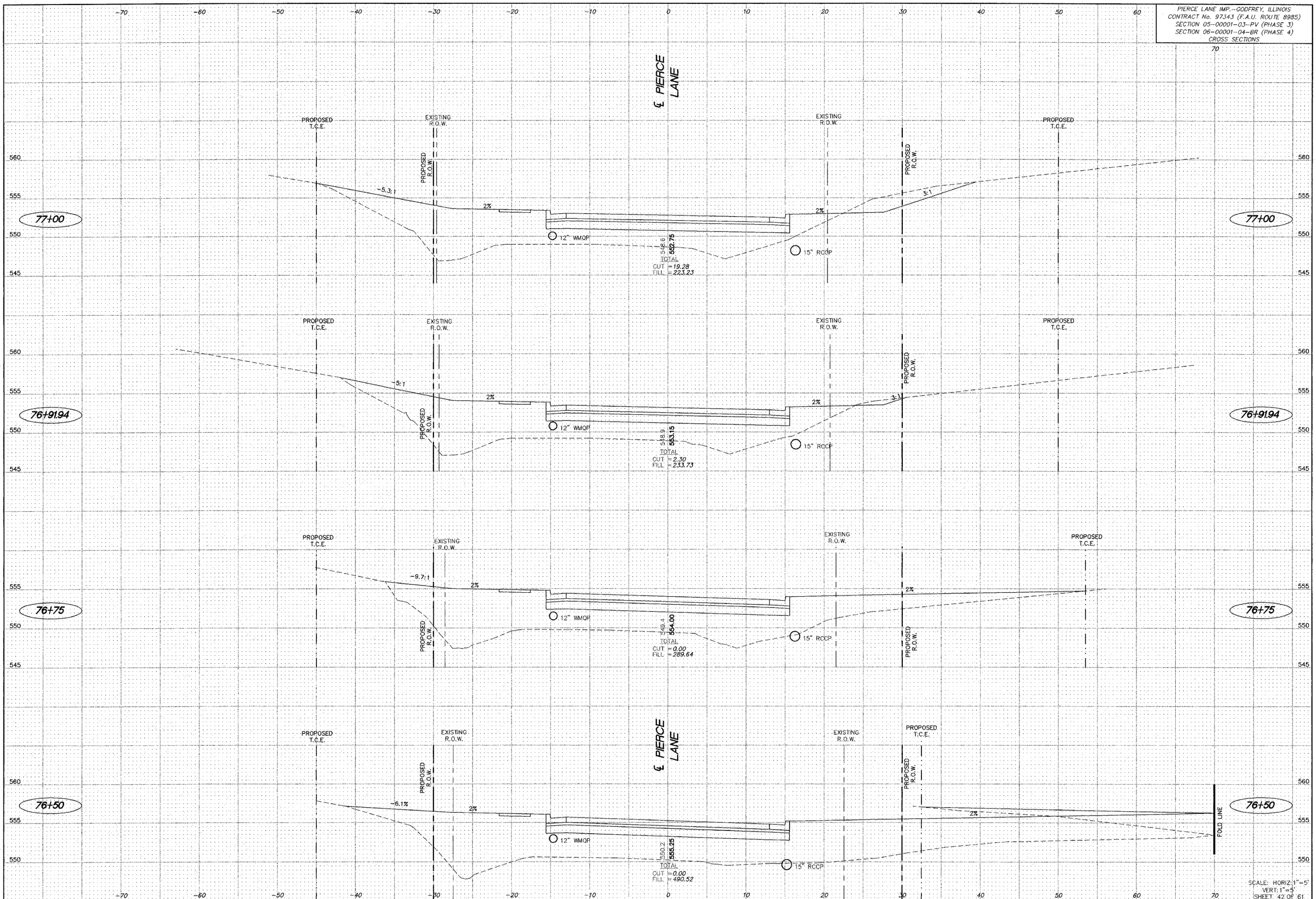
℄ PIERCE LANE

SCALE: HORIZ. 1" = 5'
VERT. 1" = 5'
SHEET 41 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (43613)\dwg\PRC PH3 XSEC.dwg, 4/18/2008 3:03:20 PM, bstevens, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

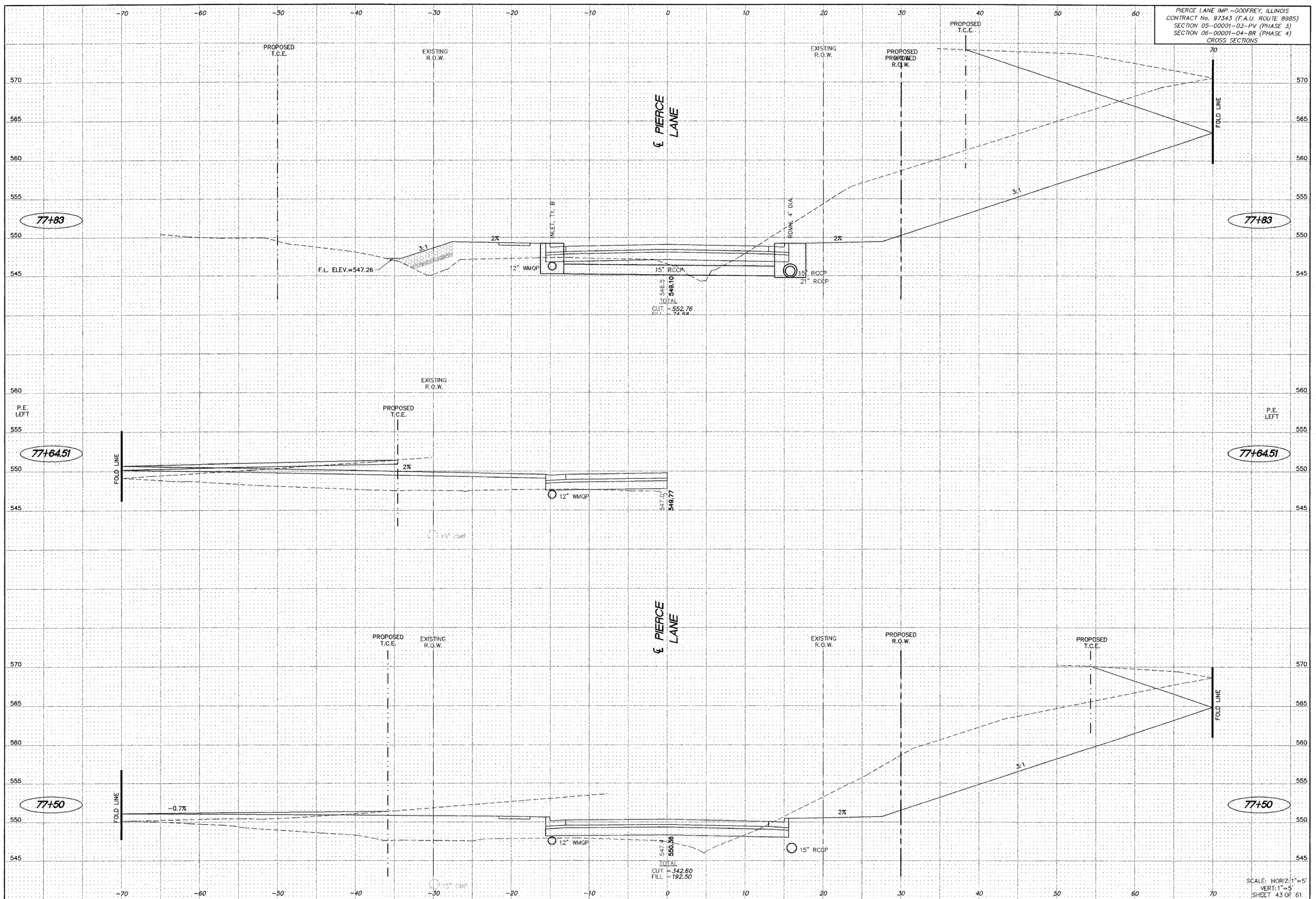


SCALE: HORIZ.1"=5'
VERT.1"=5'
SHEET 42 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY PIERCE LN PH3\1436913\dwg\PRC PH3 XSEC.dwg, 4/18/2008 3:07:47 PM, tstpeters, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

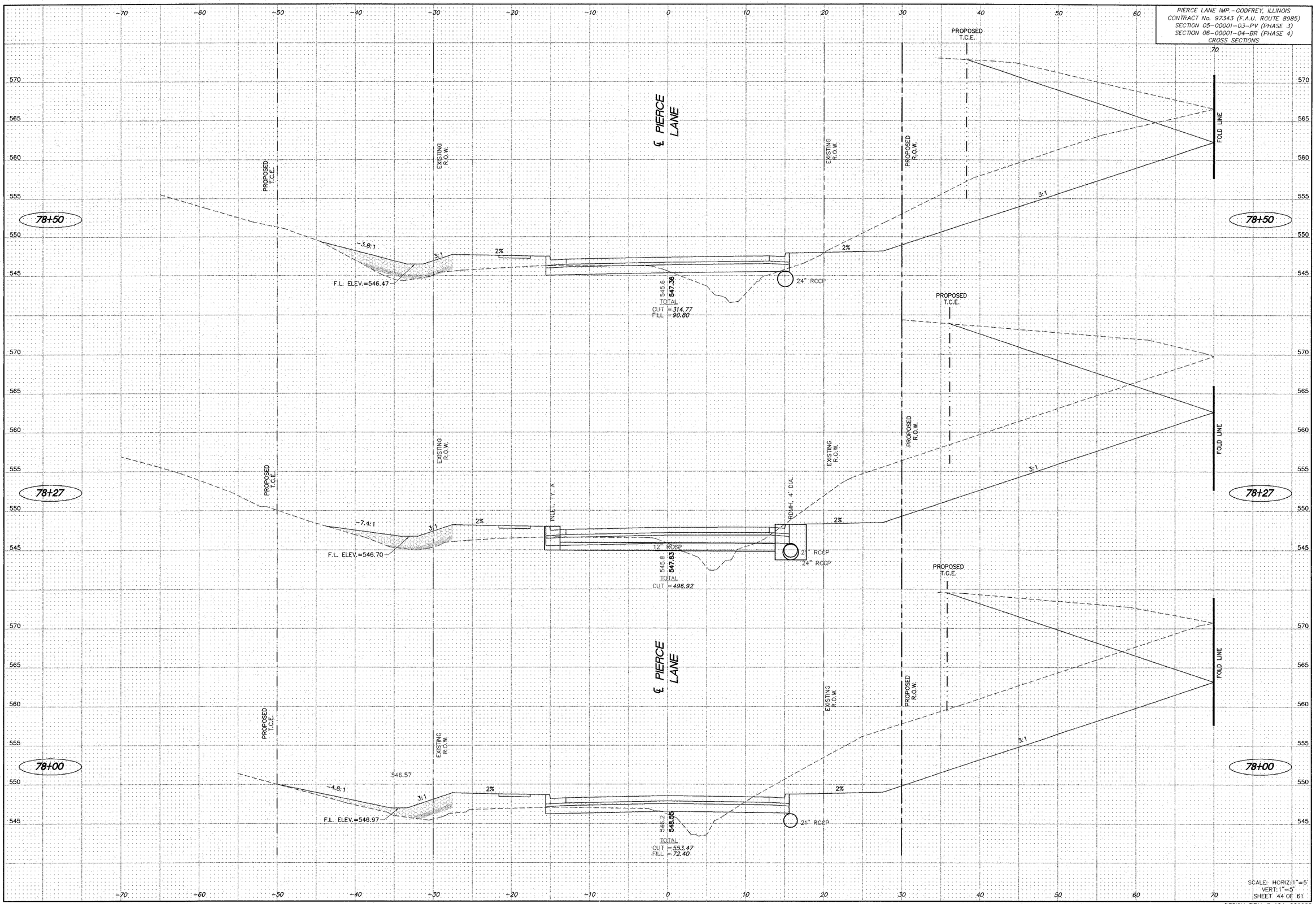


SCALE: HORIZ: 1"=5'
VERT: 1"=5'
SHEET 43 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY\-PIERCE LN PH3 (49861)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 3:11:44 PM, bstpeters, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

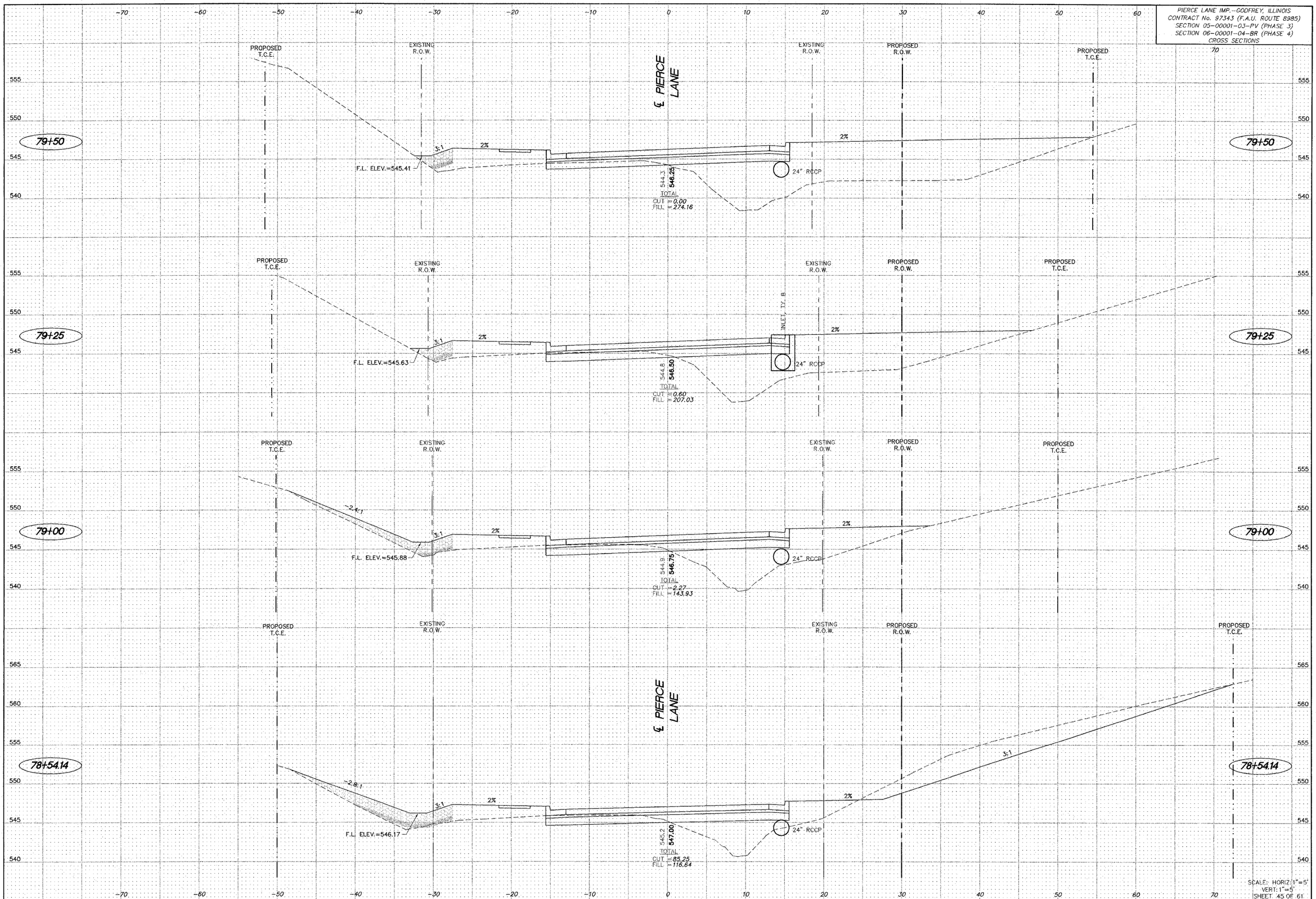


SCALE: HORIZ:1"=5'
VERT:1"=5'
SHEET 44 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (436813)\dwg\PRO PH3 XSEC.dwg, 4/16/2008 3:15:32 PM, bstpeters, 1:5

PIERCE LANE IMP.–GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05–00001–03–PV (PHASE 3)
SECTION 06–00001–04–BR (PHASE 4)
CROSS SECTIONS

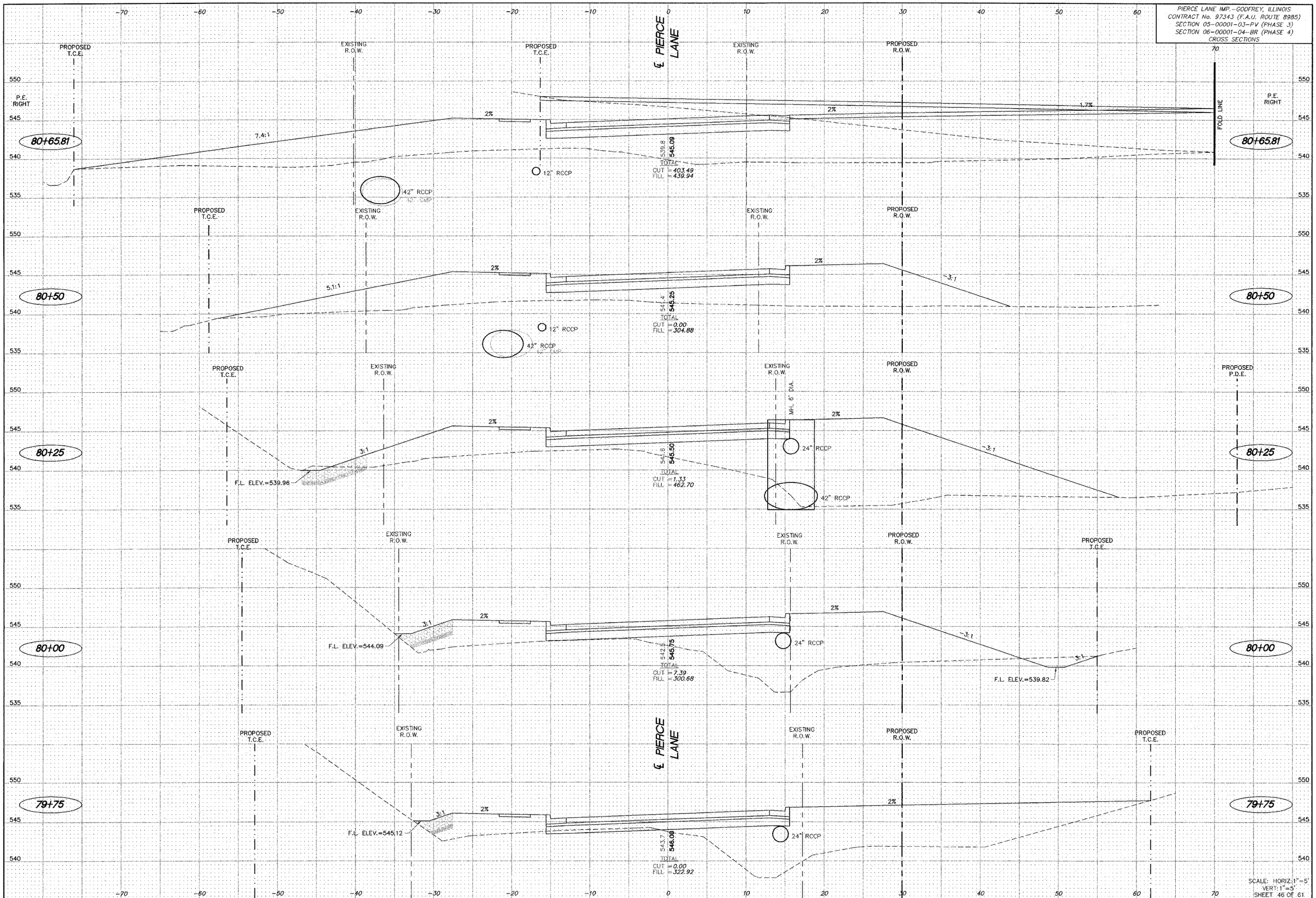


SCALE: HORIZ: 1"=5'
VERT: 1"=5'
SHEET 45 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (45613)\dwg\PRC-PH3-XSEC.dwg, 4/16/2008 3:20:26 PM, bdpeters, 1:5

PIERCE LANE IMP. - GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

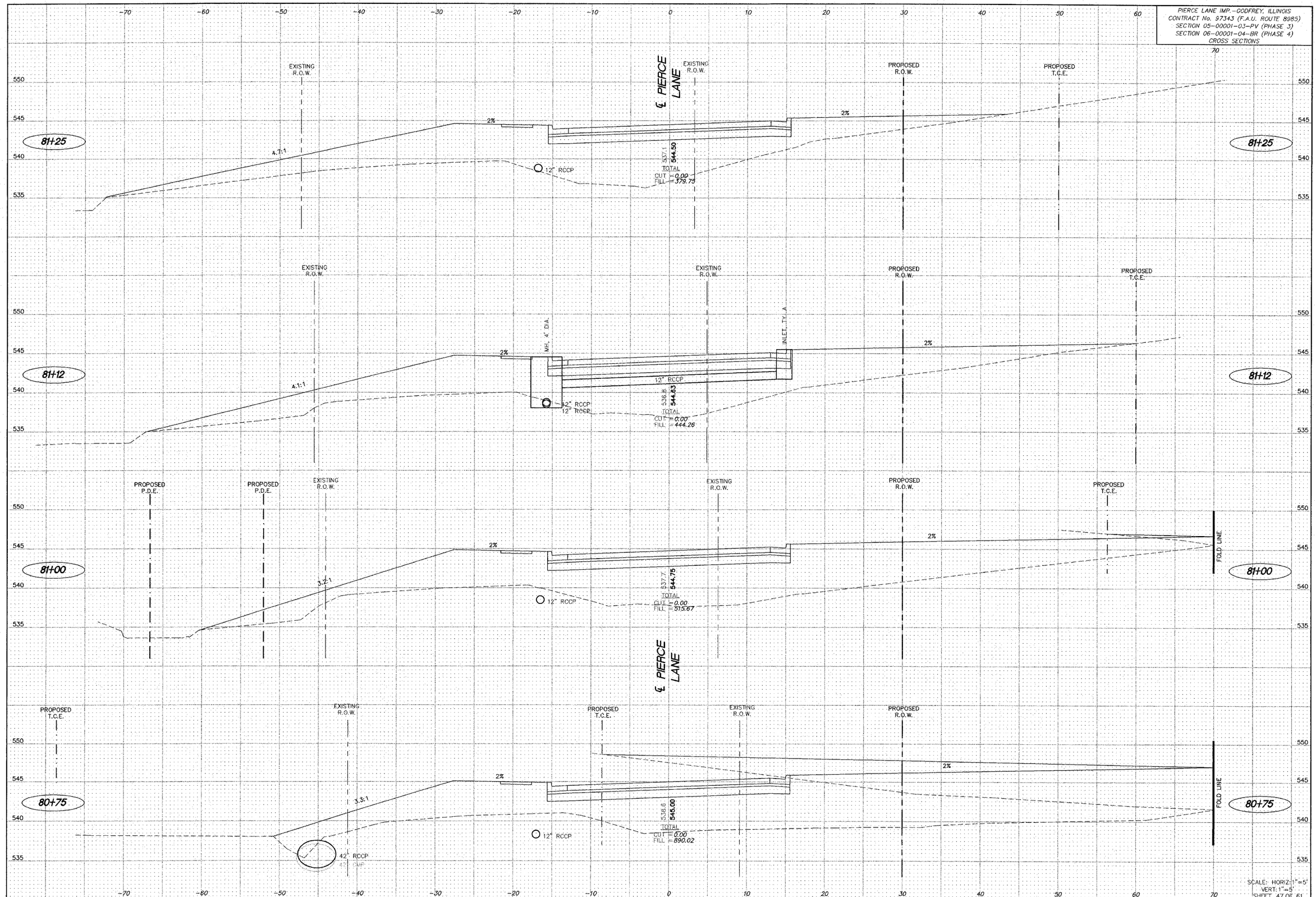


SCALE: HORIZ.1"=5'
VERT.1"=5'
SHEET 46 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN\ PH3 (43861)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 3:24:40 PM, bstevens, 1:5

PIERCE LANE IMP.–GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05–00001–03–PV (PHASE 3)
SECTION 06–00001–04–BR (PHASE 4)
CROSS SECTIONS

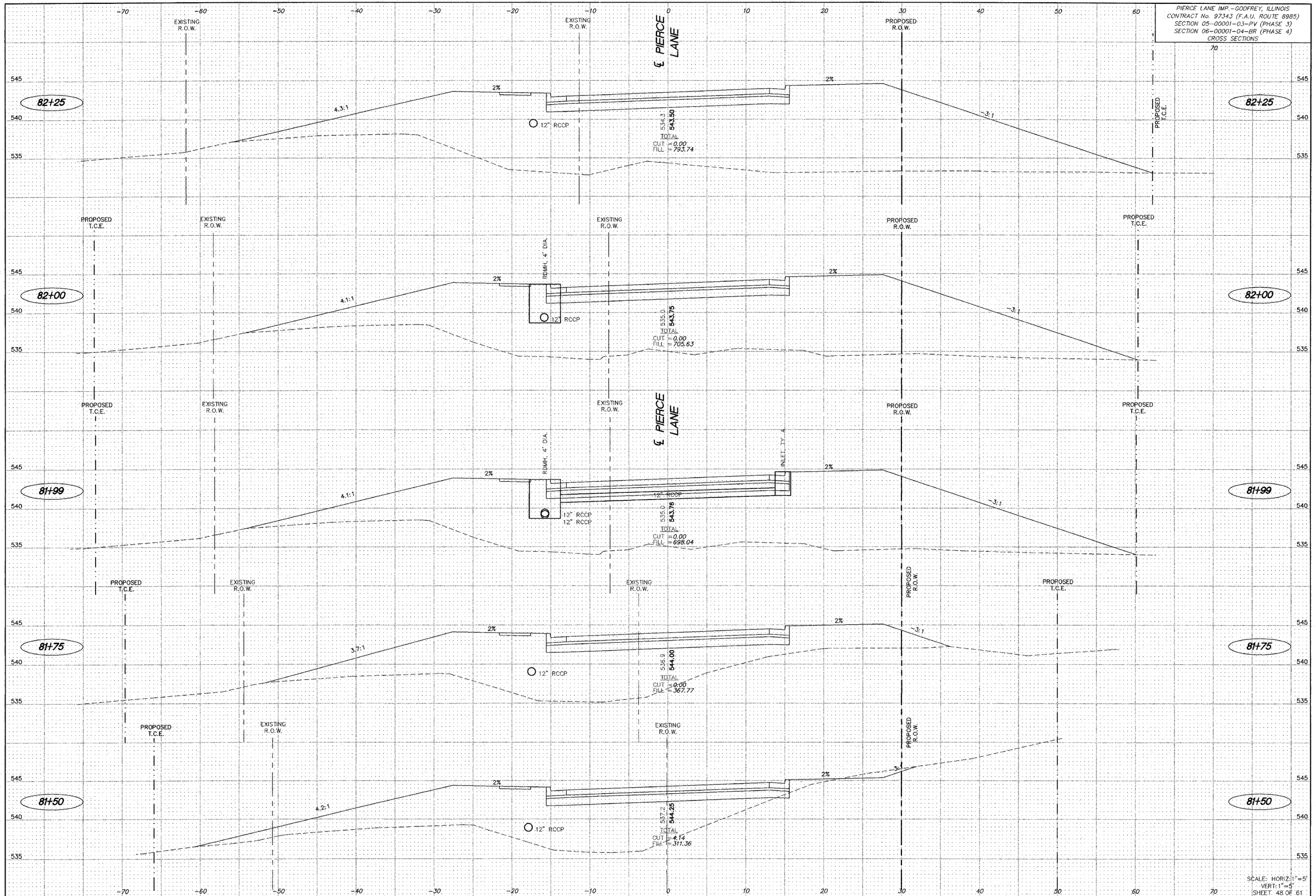


SCALE: HORIZ.1"=5'
VERT.1"=5'
SHEET 47 OF 61

DESIGN FIRM # 184–000992

S:\Lima Projects\GODFREY-PIERCE LN PHS (435613)\dwg\PRC PHD XSEC.dwg, 4/16/2008 3:26:27 PM, bsposters, 1:5

PIERCE LANE IMP. - GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

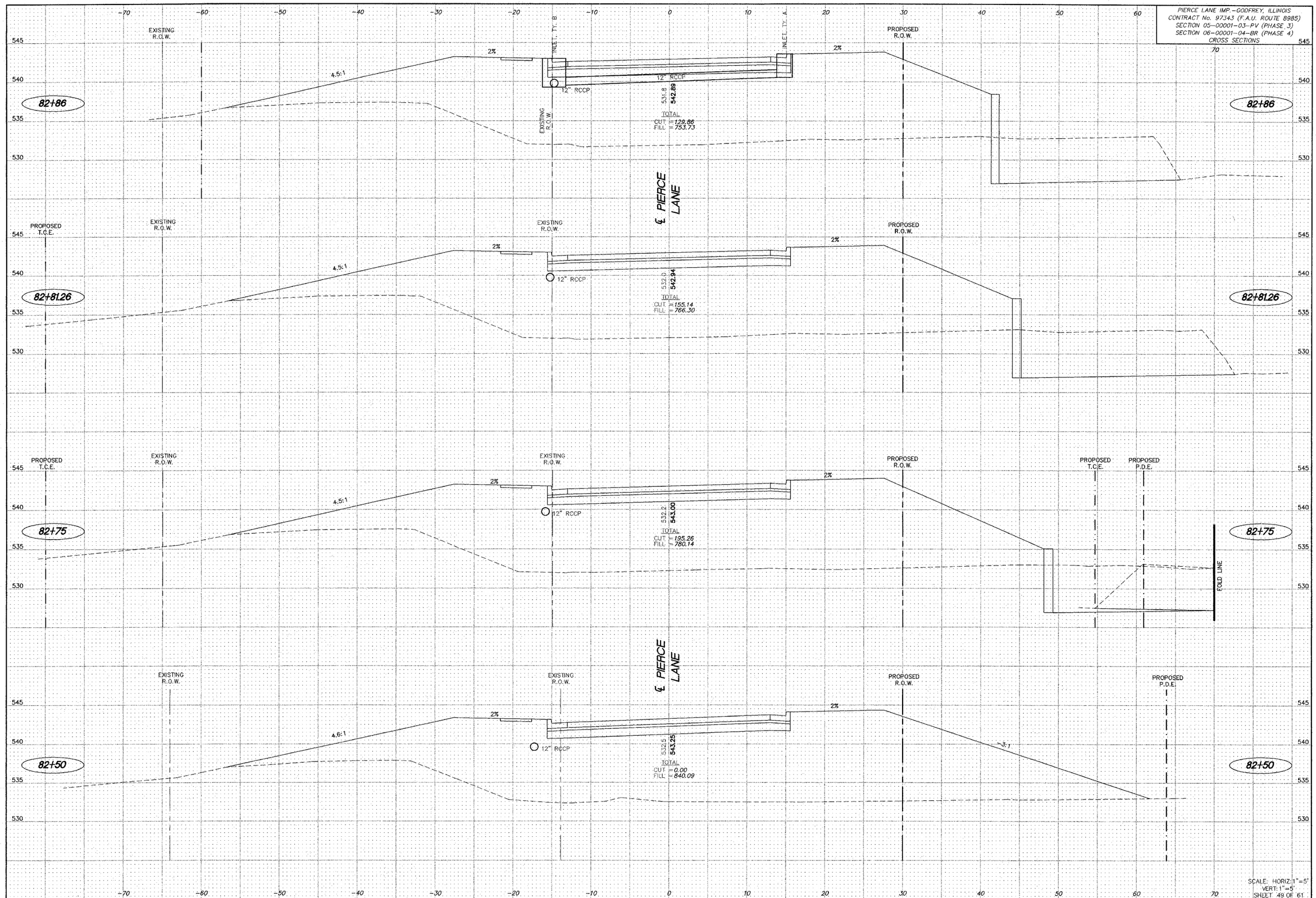


SCALE: HORIZ: 1" = 5'
VERT: 1" = 5'
SHEET 48 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY\-PIERCE LN PH3 (4250913)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 3:32:46 PM, bajuettes, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

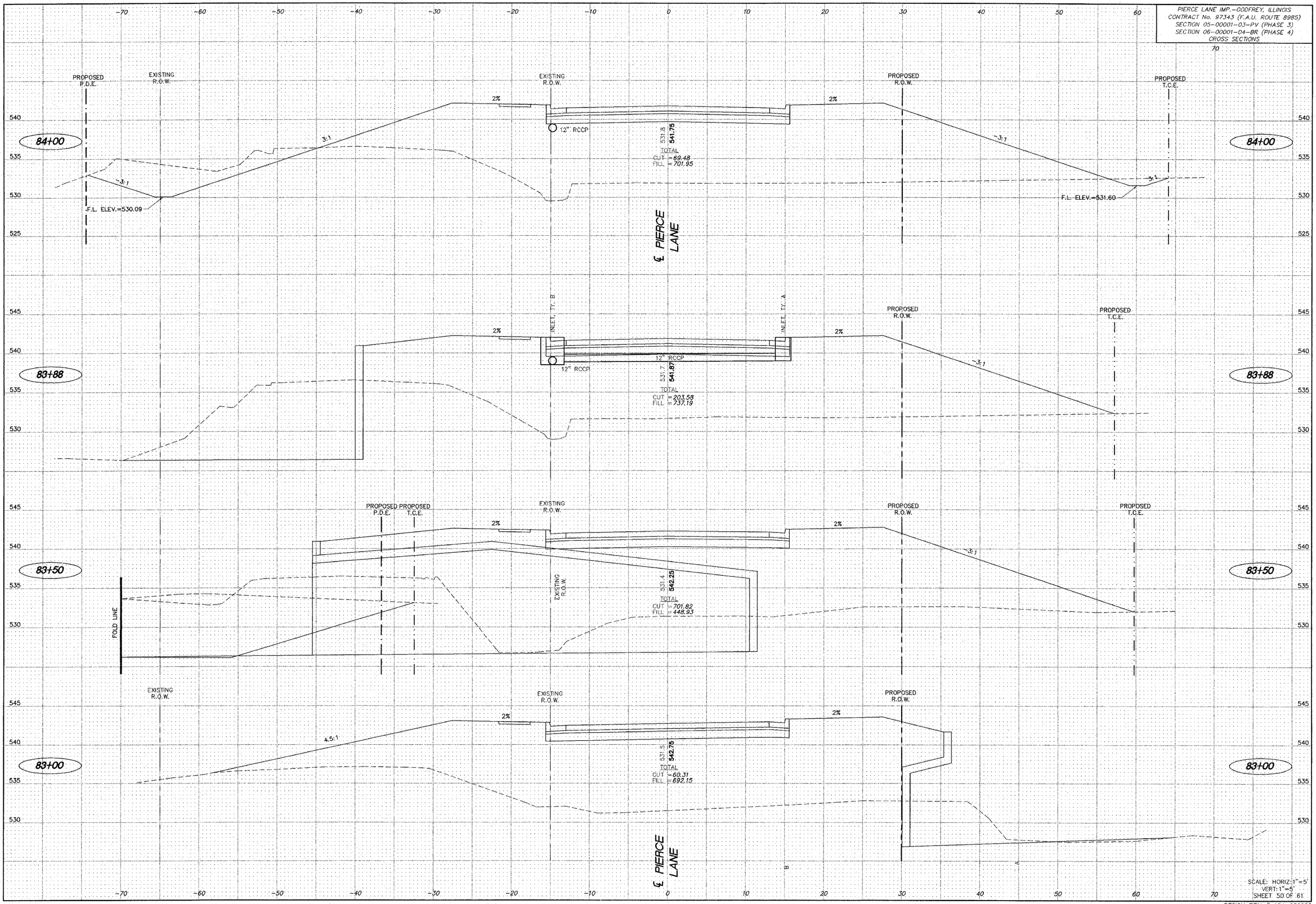


SCALE: HORIZ.:1"=5'
VERT: 1"=5'
SHEET 49 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (43681.3)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 3:36:30 PM, bbpeters, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

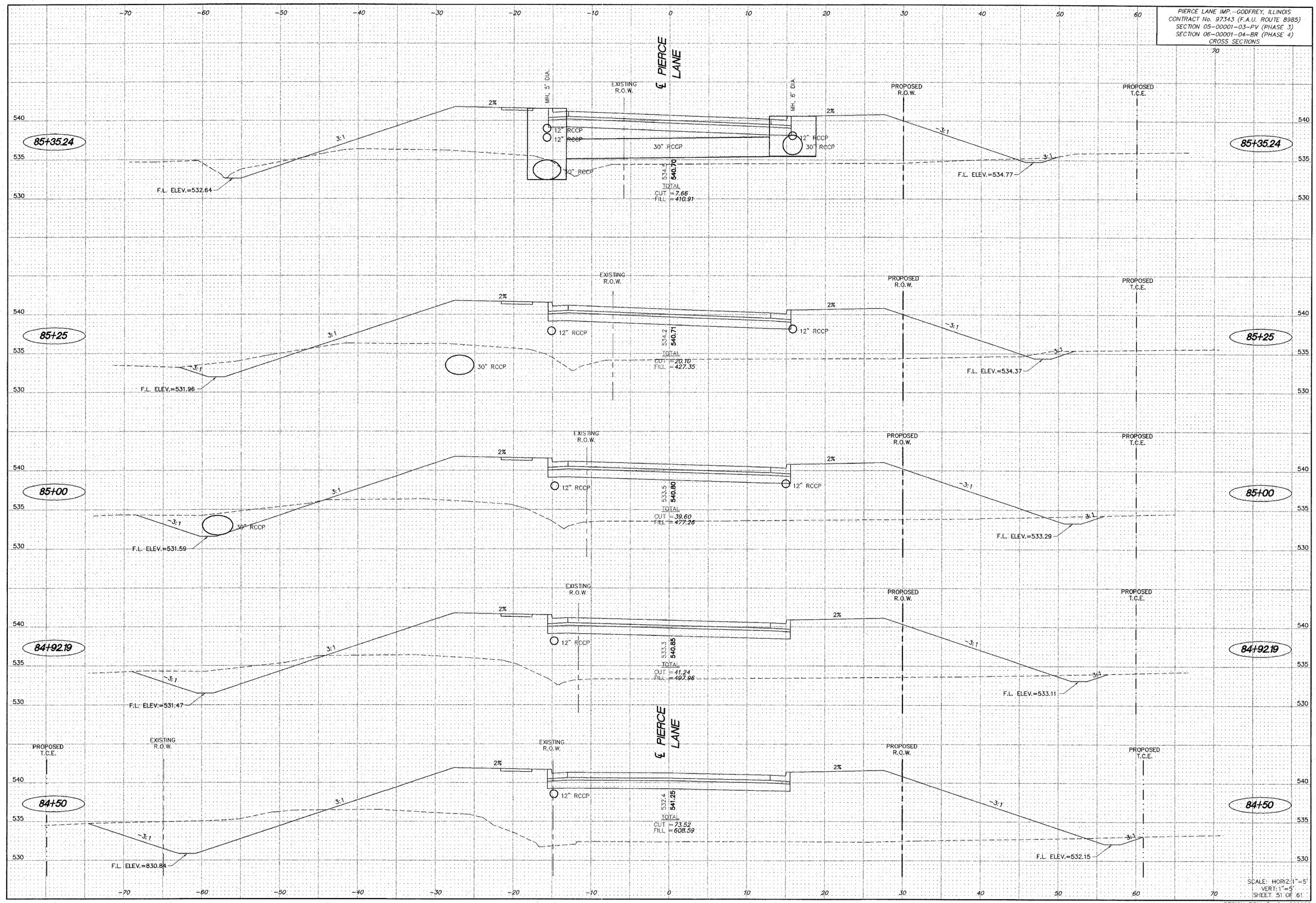


SCALE: HORIZ.: 1"=5'
VERT: 1"=5'
SHEET 50 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY\PIERCE LN PH3 (4386-3)\dwg\PRC PH3 XSEC.dwg, 4/18/2008 3:40:11 PM, bstpeters, 1:5

PIERCE LANE IMP.–GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05–00001–03–PV (PHASE 3)
SECTION 06–00001–04–BR (PHASE 4)
CROSS SECTIONS

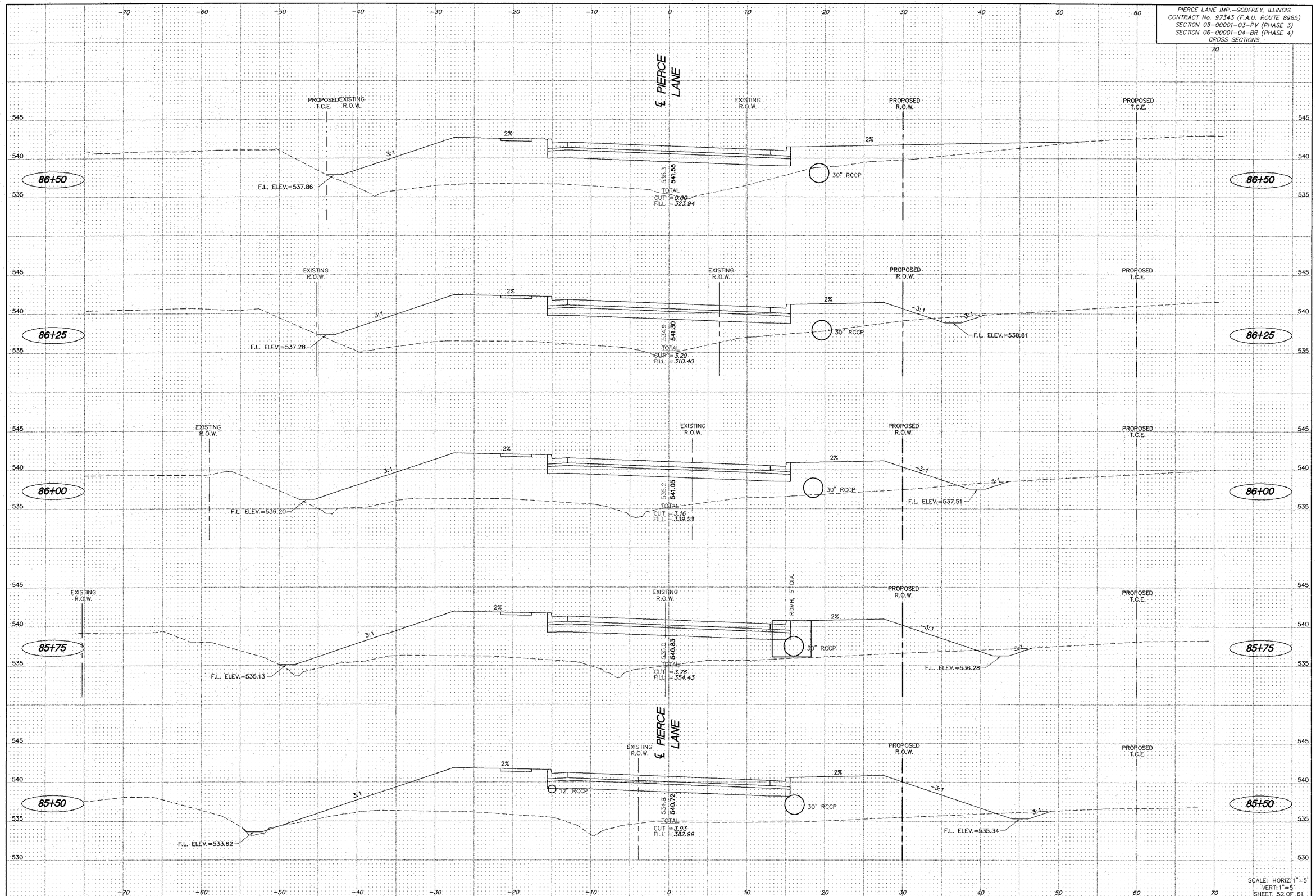


SCALE: HORIZ.1"=5'
VERT.1"=5'
SHEET 51 OF 61

DESIGN FIRM # 184–000992

S:\Land Projects\GODFREY\PIERCE LN PH3 (4388-3)\dwg\PRC PH3 XSEC.dwg, 4/16/2009 3:44:01 PM, tsiglerlers, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

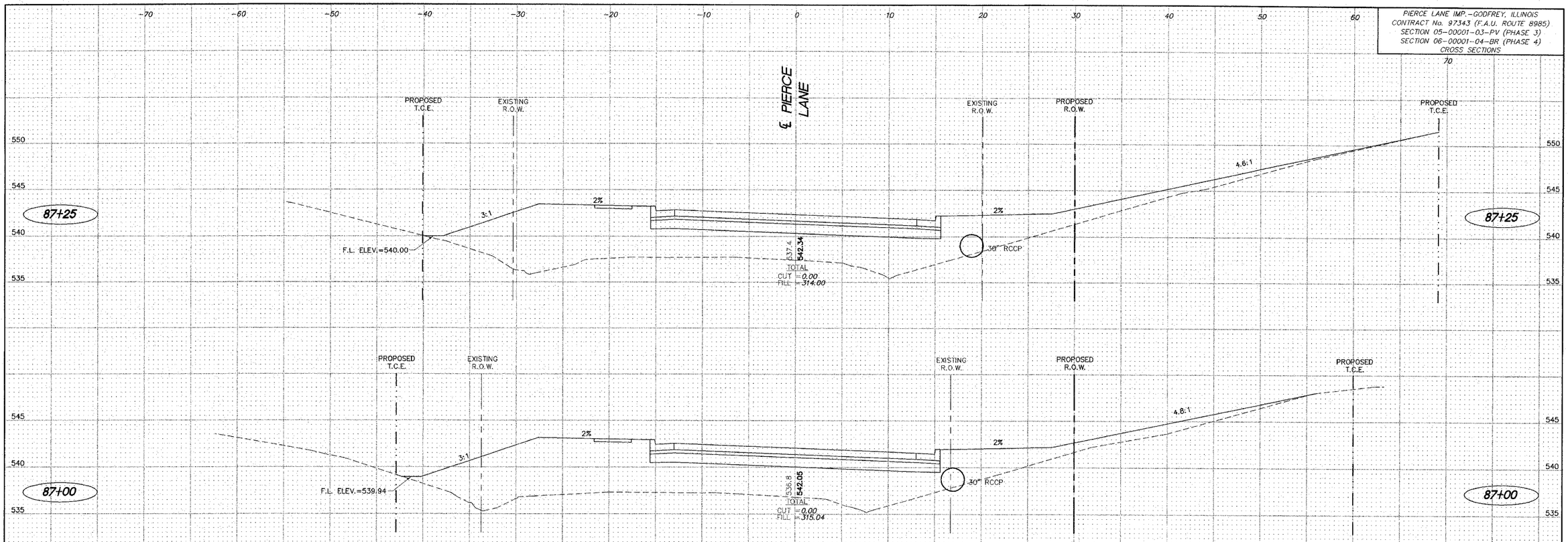


SCALE: HORIZ.1"=5'
VERT.1"=5'
SHEET 52 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (43861)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 3:47:56 PM, bebobkins, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

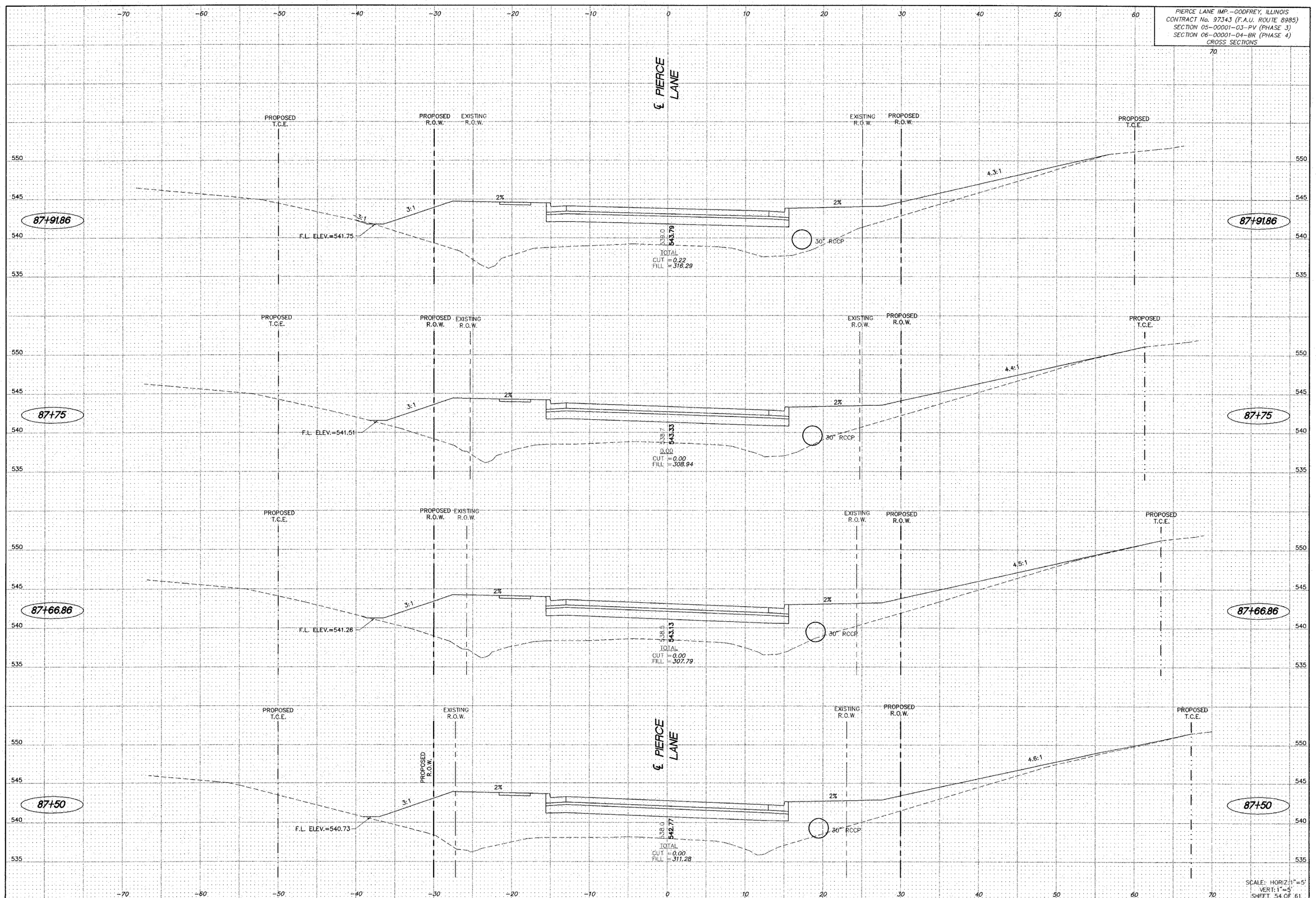


SCALE: HORIZ.:1"=5'
VERT: 1"=5'
SHEET 53 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (43861.3)\dwg\PROC PH3 XSEC.dgn, 4/16/2008 3:51:28 PM, jkelly, 1:5

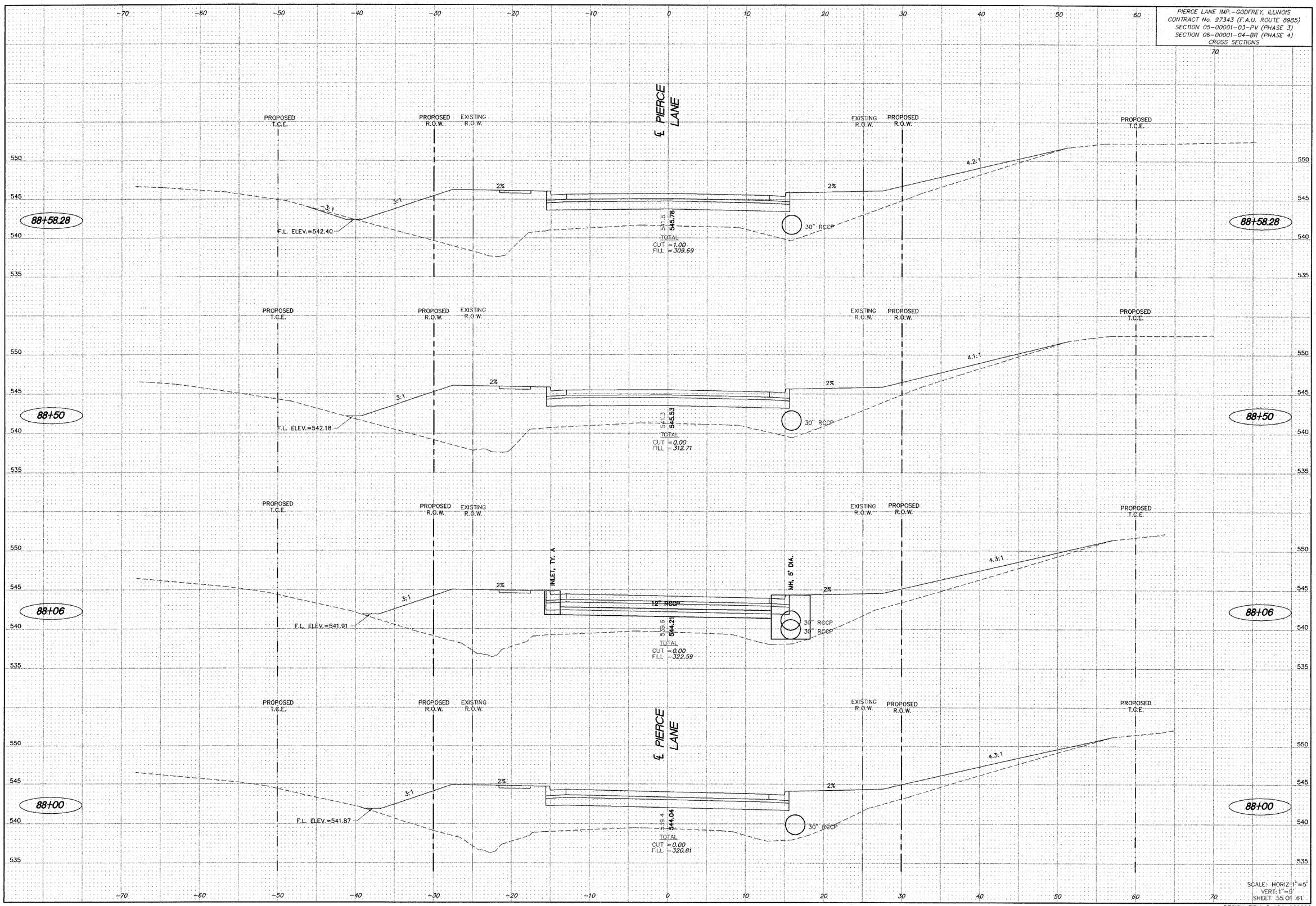
PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS



DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY\PIERCE LN PH3 (43681.3)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 3:42:45 PM, jkelly, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

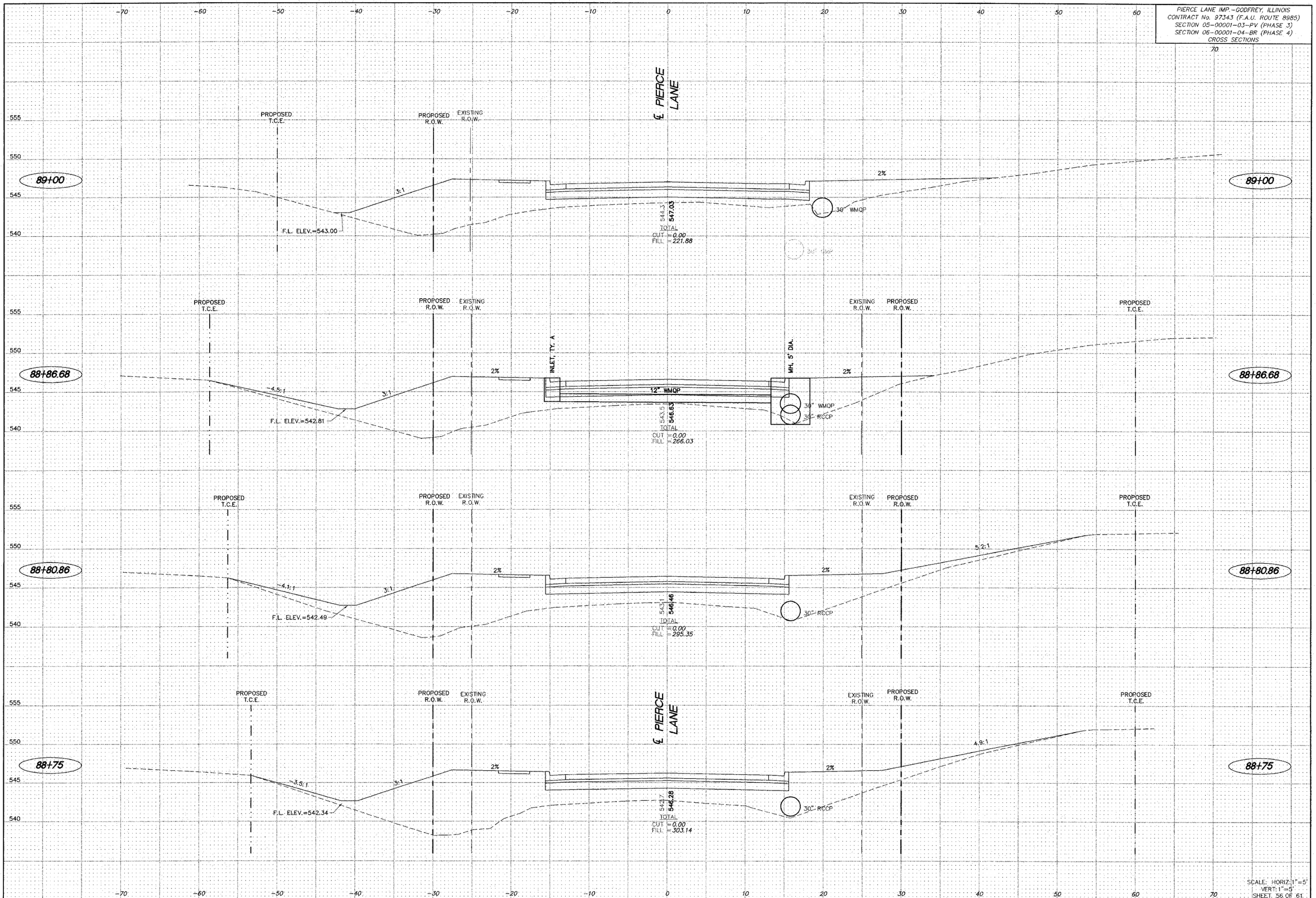


SCALE: HORIZ.: 1"=5'
VERT: 1"=5'
SHEET 55 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (43613)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 3:34:15 PM, JMiller, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

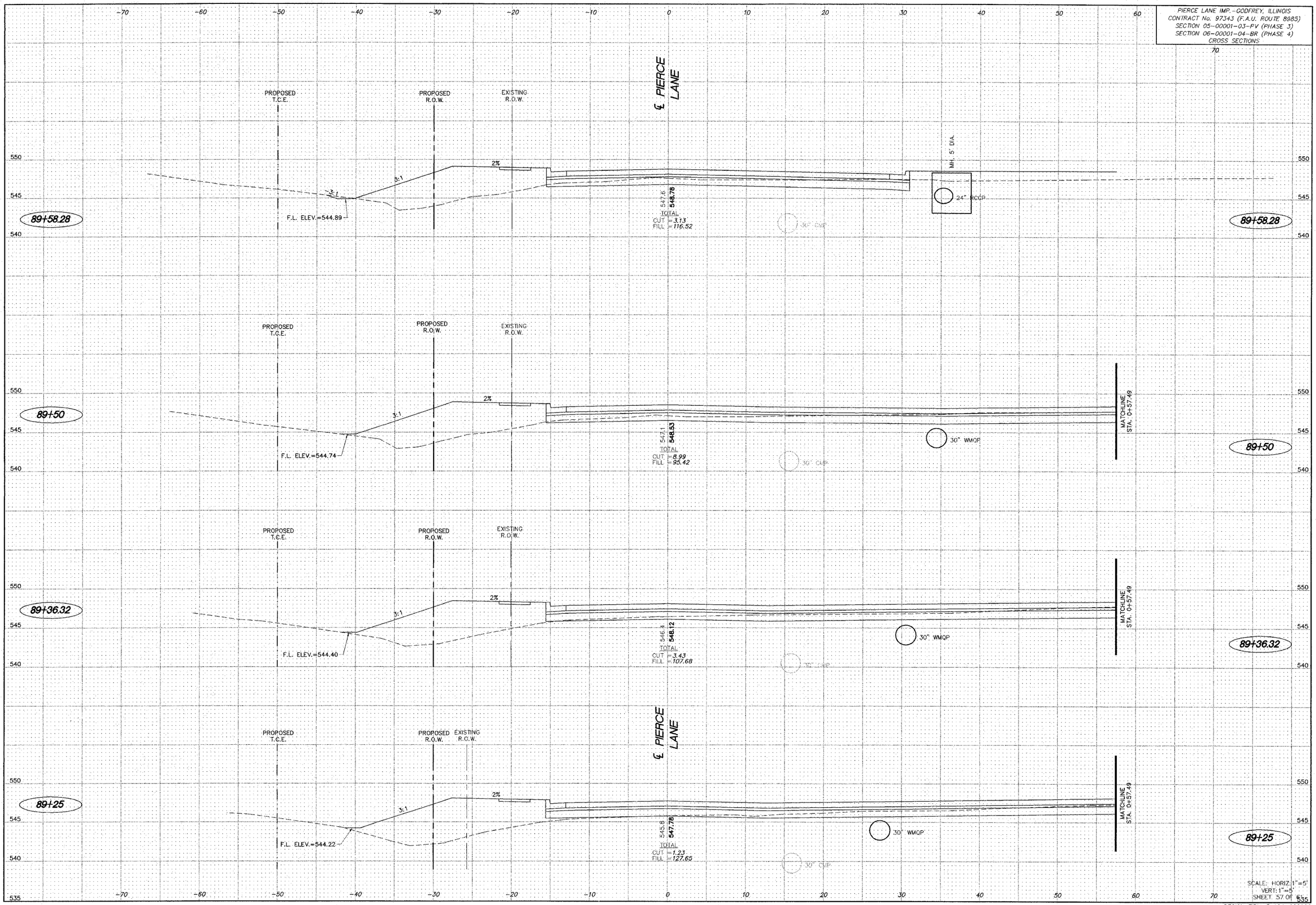


SCALE: HORIZ. 1"=5'
VERT. 1"=5'
SHEET 56 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (43681.3)\dwg\PRC PHD XSEC.dwg, 4/16/2008 3:30:47 PM, jkelly, 1:5

PIERCE LANE IMP. - GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

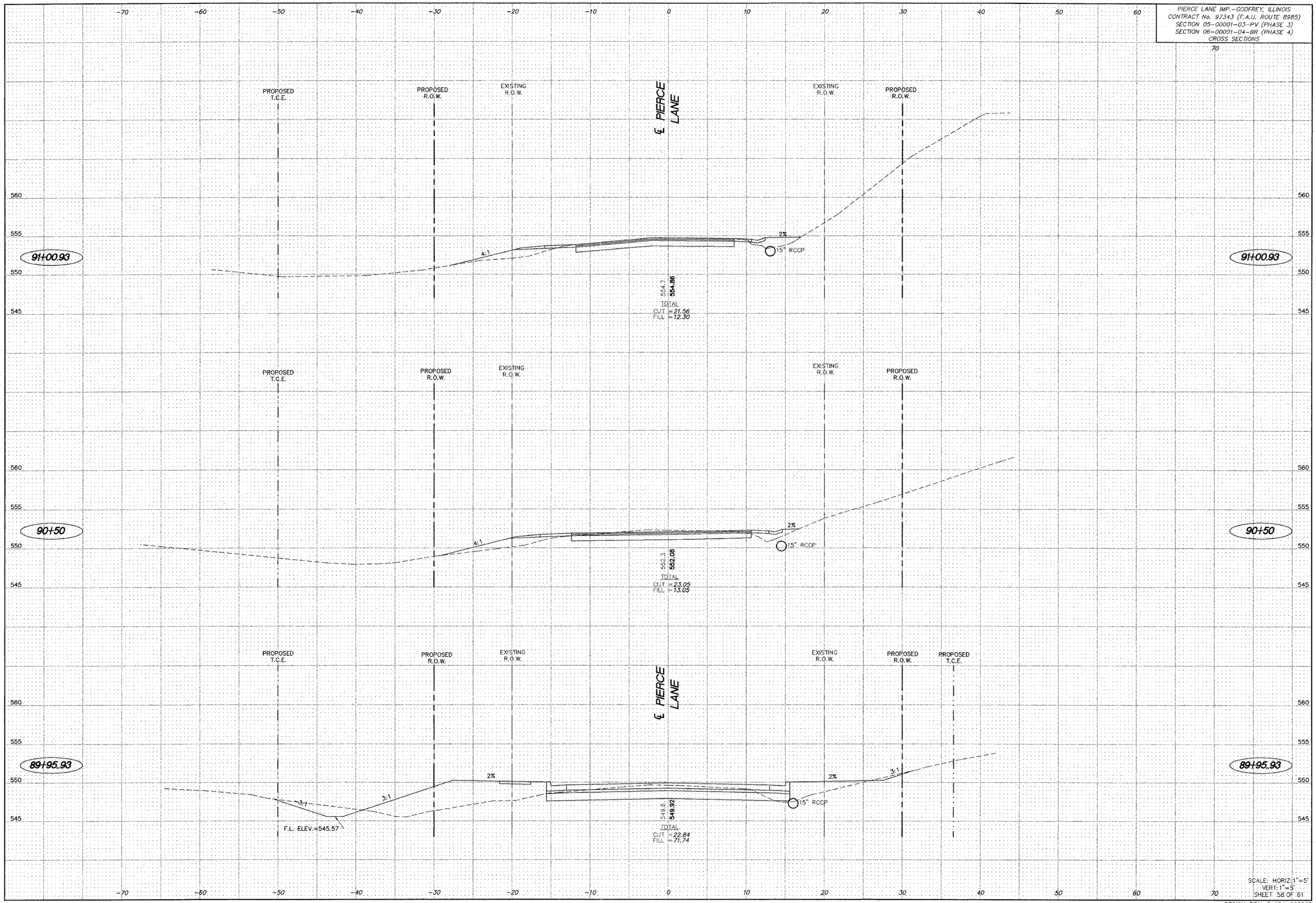


SCALE: HORIZ.1"=5'
VERT: 1"=5'
SHEET 57 OF 65

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY\PIERCE LN PH3 (4380139)\dwg\PRC PH3 XSEC.dwg, 4/16/2008 3:27:25 PM, jkelly, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

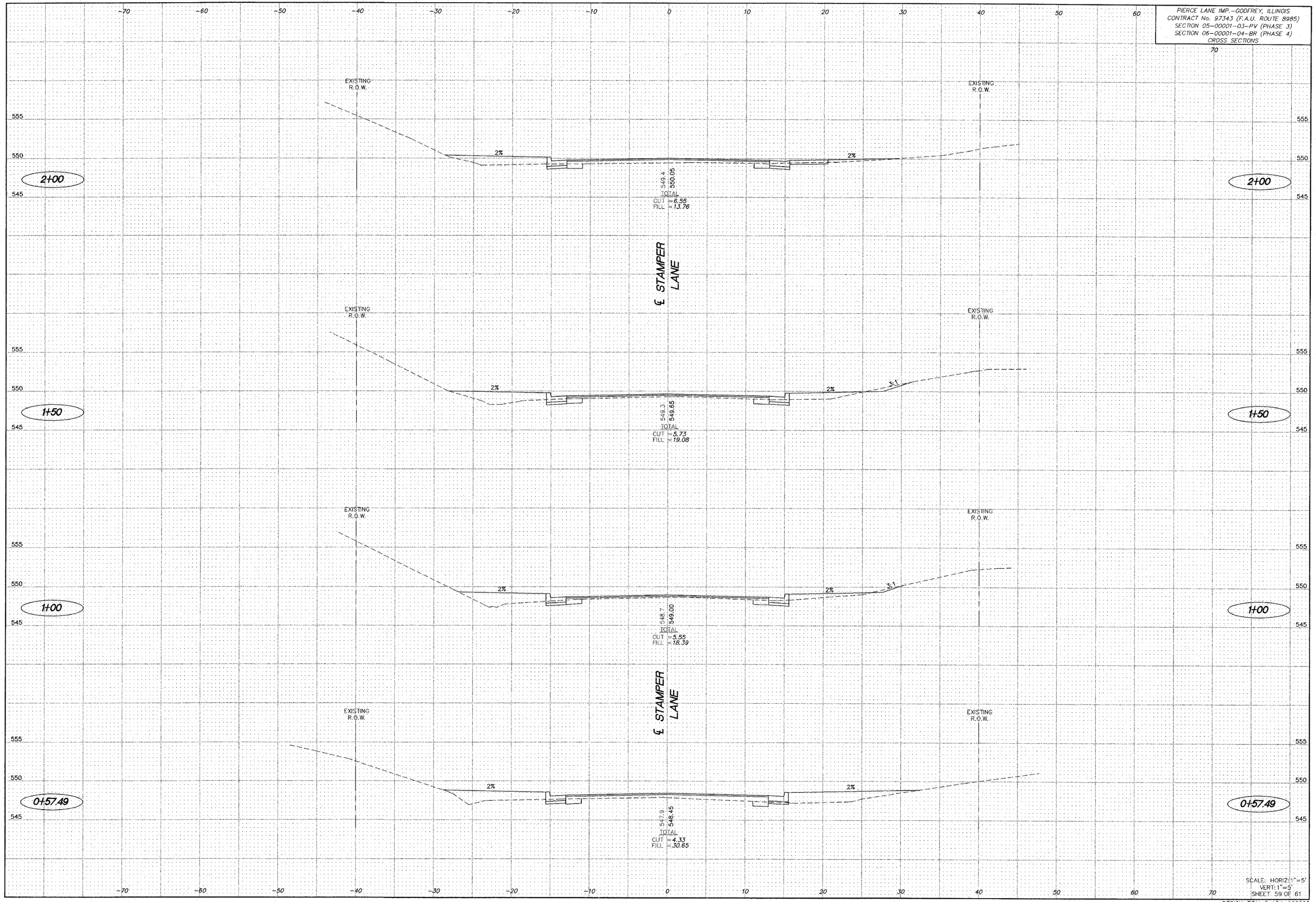


SCALE: HORIZ.1"=5'
VERT: 1"=5'
SHEET 58 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (45863)\dwg\PROC PH3 XSEC.dwg, 4/16/2008 3:17:06 PM, jkelly, 1:5

PIERCE LANE IMP.–GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05–00001–03–PV (PHASE 3)
SECTION 06–00001–04–BR (PHASE 4)
CROSS SECTIONS



SCALE: HORIZ: 1"=5'
VERT: 1"=5'
SHEET 59 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (43881.3)\dwg\PHC PH3 XSEC dwg, 4/16/2008 3:10:21 PM, Jkelly, 1:5

PIERCE LANE IMP.-GODFREY, ILLINOIS
CONTRACT No. 97343 (F.A.U. ROUTE 8985)
SECTION 05-00001-03-PV (PHASE 3)
SECTION 06-00001-04-BR (PHASE 4)
CROSS SECTIONS

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

℄ STAMPER LANE

555 550 545

3+20

EXISTING R.O.W.

3:1 3:1

548.2 548.15

TOTAL
CUT = 3.00
FILL = 0.02

3+00

EXISTING R.O.W.

3:1 3:1

548.6 548.59

TOTAL
CUT = 3.42
FILL = 0.03

2+75

EXISTING R.O.W.

EXISTING R.O.W.

3:1 3:1

548.9 549.14

TOTAL
CUT = 4.68
FILL = 0.00

℄ STAMPER LANE

2+50

EXISTING R.O.W.

EXISTING R.O.W.

2% 2%

549.2 549.64

TOTAL
CUT = 10.34
FILL = 12.67

C.E. RIGHT

2+16.21

EXISTING R.O.W.

EXISTING R.O.W. PROPOSED T.C.E.

2% 2% 8.1%

549.4 550.01

TOTAL
CUT = 13.53
FILL = 10.27

SCALE: HORIZ.: 1"=5'
VERT: 1"=5'
SHEET 60 OF 61

DESIGN FIRM # 184-000992

S:\Land Projects\GODFREY-PIERCE LN PH3 (438613)\dwg\PRC PH3 XSEC.dwg 5/16/2008 3:07:14 PM, jkelly, 1:5

LEGEND

EXISTING GUY POLE –
EXISTING LIGHT POLE –
EXISTING POWER POLE –
EXISTING TELEPHONE POLE –
EXISTING GUY WIRE –
EXISTING TRANSMISSION TOWER –
EXISTING ELECTRIC SPLICE BOX – E
EXISTING TELEPHONE SPLICE BOX –
EXISTING CABLE SPLICE BOX – TV
EXISTING WATER HYDRANT –
EXISTING GAS METER –
EXISTING WATER METER –
EXISTING WATER VALVE –
EXISTING GAS VALVE –
EXISTING FIRE HYDRANT – FH
EXISTING SANITARY MANHOLE TOP –
EXISTING STORM MANHOLE TOP –
EXISTING TELEPHONE MANHOLE TOP –
EXISTING SANITARY CLEAN OUT –
CONTROL POINT –
BENCHMARK – B.M.
TEST PIT / NUMBER – T.P.# X
BORING / NUMBER – B# X
RIGHT-OF-WAY MARKER – MON
AXLE FOUND – AXLE
BOLT FOUND – BOLT
CHISELED "X" FOUND –
PIN FOUND – IP
PINCH PIPE FOUND – IP
PK NAIL FOUND – PK
RAILROAD SPIKE FOUND – RR
STONE FOUND – STONE
BRASS MONUMENT FOUND – MON
IRON PIPE FOUND – IP
MONUMENT FOUND – MON
REBAR FOUND – IP
EXISTING MAILBOX –
EXISTING FENCE POST –
EXISTING GATE POST –
EXISTING FLAG POLE –
EXISTING GUARD POST – GP
EXISTING ADVERTISING SIGN –
EXISTING TRAFFIC SIGN –
EXISTING PARKING METER –
EXISTING RAILROAD MILE POST – MP
EXISTING RAILROAD SIGNAL CONTROLLER –
EXISTING RAILROAD CROSSING GATE –
EXISTING TRAFFIC SIGNAL –
EXISTING TRAFFIC SIGNAL CONTROLLER –
EXISTING HANDHOLE –
EXISTING DOUBLE HANDHOLE –
EXISTING MAST ARM BASE –
EXISTING DECIDUOUS TREE / SIZE – XX"
EXISTING EVERGREEN TREE / SIZE – XX"
EXISTING STUMP / SIZE – XX"
EXISTING BUSH –
EXISTING SHRUB –
EXISTING TREE TO BE REMOVED – XX"

PROPOSED GUY POLE –
PROPOSED LIGHT POLE –
PROPOSED POWER POLE –
PROPOSED TELEPHONE POLE –
PROPOSED GUY WIRE –
PROPOSED TRANSMISSION TOWER –
PROPOSED ELECTRIC SPLICE BOX – E
PROPOSED TELEPHONE SPLICE BOX –
PROPOSED CABLE SPLICE BOX – TV
PROPOSED WATER HYDRANT –
PROPOSED GAS METER –
PROPOSED WATER METER –
PROPOSED WATER VALVE –
PROPOSED GAS VALVE –
PROPOSED FIRE HYDRANT – FH
PROPOSED SANITARY MANHOLE TOP –
PROPOSED STORM MANHOLE TOP –
PROPOSED TELEPHONE MANHOLE TOP –
PROPOSED SANITARY CLEAN OUT –
PROPOSED MAILBOX –
PROPOSED GUARD POST – GP
PROPOSED ADVERTISING SIGN –
PROPOSED TRAFFIC SIGN –
PROPOSED RAILROAD MILE POST – MP
PROPOSED RAILROAD SIGNAL CONTROLLER –
PROPOSED RAILROAD CROSSING GATE –
PROPOSED TRAFFIC SIGNAL –
PROPOSED TRAFFIC SIGNAL CONTROLLER –
PROPOSED HANDHOLE –
PROPOSED DOUBLE HANDHOLE –
PROPOSED MAST ARM BASE –
PROPOSED DECIDUOUS TREE / SIZE – XX"
PROPOSED EVERGREEN TREE / SIZE – XX"
PROPOSED BUSH –
PROPOSED PLANT –
PROPOSED EDGE OF PAVEMENT ELEVATION – + 512.00 EP
PROPOSED PAVEMENT ELEVATION – + 505.50 P
PROPOSED CURB ELEVATION – + 550.25 C
PROPOSED SIDEWALK ELEVATION – + 515.15 SW
PROPOSED FLOWLINE ELEVATION – + 501.58 FL

EXISTING CONSTRUCTION

EXISTING BASELINE
EXISTING POND, LAKE, BODY OF WATER, ETC.
EXISTING BRUSH / HEDGE / TREE LINE
EXISTING RAILROAD
EXISTING OVERHEAD CABLE TV
EXISTING RIGHT-OF-WAY
EXISTING UNDERGROUND CABLE TV
EXISTING SANITARY SEWER
EXISTING CENTERLINE
EXISTING SECTION LINE
500 EXISTING MAJOR CONTOUR
EXISTING SETBACK
501 EXISTING MINOR CONTOUR
EXISTING STORM SEWER
EXISTING CULVERT
EXISTING OVERHEAD TELEPHONE
EXISTING DITCH
EXISTING UNDERGROUND TELEPHONE
OE EXISTING OVERHEAD ELECTRIC
EXISTING WATER
E EXISTING UNDERGROUND ELECTRIC
EXISTING EASEMENT
X EXISTING FENCE
FO EXISTING FIBER OPTIC
FM EXISTING FORCEMAIN
G EXISTING GAS
EXISTING GUARDRAIL

PROPOSED CONSTRUCTION

PROPOSED BASELINE
PROPOSED GUARDRAIL
OTV OTV PROPOSED OVERHEAD CABLE TV
PROPOSED POND, LAKE, BODY OF WATER, ETC.
TV TV PROPOSED UNDERGROUND CABLE TV
PROPOSED RAILROAD
PROPOSED CENTERLINE
PROPOSED RIGHT-OF-WAY
PROPOSED CONSTRUCTION LIMITS
PROPOSED SANITARY SEWER
500 PROPOSED MAJOR CONTOUR
PROPOSED SETBACK
501 PROPOSED MINOR CONTOUR
PROPOSED STORM SEWER
PROPOSED CULVERT
PROPOSED TEMPORARY CONSTRUCTION EASEMENT
PROPOSED DITCH
OT OT PROPOSED OVERHEAD TELEPHONE
OE OE PROPOSED OVERHEAD ELECTRIC
T T PROPOSED UNDERGROUND TELEPHONE
E E PROPOSED UNDERGROUND ELECTRIC
W W PROPOSED WATER
PROPOSED PERIMETER EROSION BARRIER
PROPOSED PERMANENT DRAINAGE EASEMENT
PROPOSED EASEMENT
X X X PROPOSED FENCE
FO FO PROPOSED FIBER OPTIC
FM FM PROPOSED FORCEMAIN
G G PROPOSED GAS

CONTRACT 97343

REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box E, Alton, IL 62002 618/462-8755 E-mail: mail@smsengineers.com
10 Central Industrial Drive, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com

PIERCE LANE IMP. (PHASE 3 AND 4)-GODFREY, ILLINOIS
FAU ROUTE 8985
05-00001-03-PV (PHASE 3) / 06-00001-04-BR (PHASE 4)
SMS LEGEND PLAN

DWG. NO. PRC PH3 LEGEND.DWG
REF. BK. PG.
JOB NO. 436613
DSN. BY: SJW/DDT
DWN. BY: BCS
CHK. BY: SJW
DATE: FEBRUARY, 2008
SCALE: N.T.S.
SHEET 61 OF 61

S:\Land Projects\GODFREY-PIERCE LN PH3 (436613)\dwg\PRC PH3 LEGEND.dwg, 4/18/2008 4:01:29 PM, bstpeters, 1:20