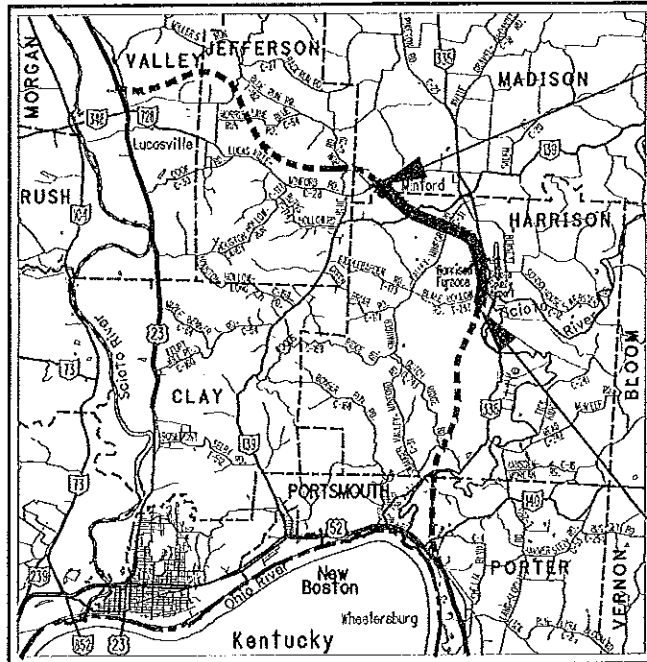


SCI - 823-6.81
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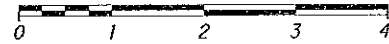
Contract Proposal Available @ www.
 contracts.dot.state.oh.us/home



LOCATION MAP

LATITUDE: N 38°50'25" LONGITUDE: W 82°50'50"

SCALE IN MILES



PORTION TO BE IMPROVED	_____
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION

N/A

DESIGN EXCEPTIONS _____ NONE REQUIRED

UNDERGROUND UTILITIES
 CONTACT BOTH SERVICES
 CALL TWO WORKING DAYS
 BEFORE YOU DIG

CALL
1-800-362-2764
 (TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE
 SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:
 Ohio Department
 of Transportation
 District Nine

ENGINEERS SEAL:



SIGNED: *David M. Beckman*
 DATE: 7/18/14

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
UM-4.4	7/20/12	MT-97.10	7/19/13	800	4/18/14
		MT-101.90	7/19/13	832	1/17/14
				SPECIAL PROVISIONS	
				WATERWAY PERMIT CONDITIONS	
				3/25/14	

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
SCI-823-6.81
TREE CLEARING
 MADISON & HARRISON TOWNSHIPS
 SCIOTO COUNTY

INDEX OF SHEETS:

TITLE	1
SCHEMATIC PLAN	2-4
GENERAL NOTES	5-6
MAINTENANCE OF TRAFFIC GENERAL NOTES	7
GENERAL SUMMARY	8
PROJECT SITE PLAN	9-12
TREE CLEARING	13-31

END PROJECT
 STA. 539+75
 SLM = 10.22

BEGIN PROJECT
 STA. 352+52.30
 SLM = 6.67

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF TREE AND VEGETATION REMOVAL FOR THE PROPOSED OF FOUR LANE LIMITED ACCESS HIGHWAY SR-823 AND THE PROPOSED CR-28 INTERCHANGE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.00 ACRES

ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 10.00 ACRES

NOTICE OF INTENT EARTH DISTURBED AREA: 10.00 ACRES

2013 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

I HEREBY APPROVED THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED: *Vaughn E. Wilson*
 DATE: 7-8-14 DISTRICT DEPUTY DIRECTOR

APPROVED: *Sammy Whayll*
 DATE: 7-21-14 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.
E140(353)

PID NO.
97636

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
CSXT

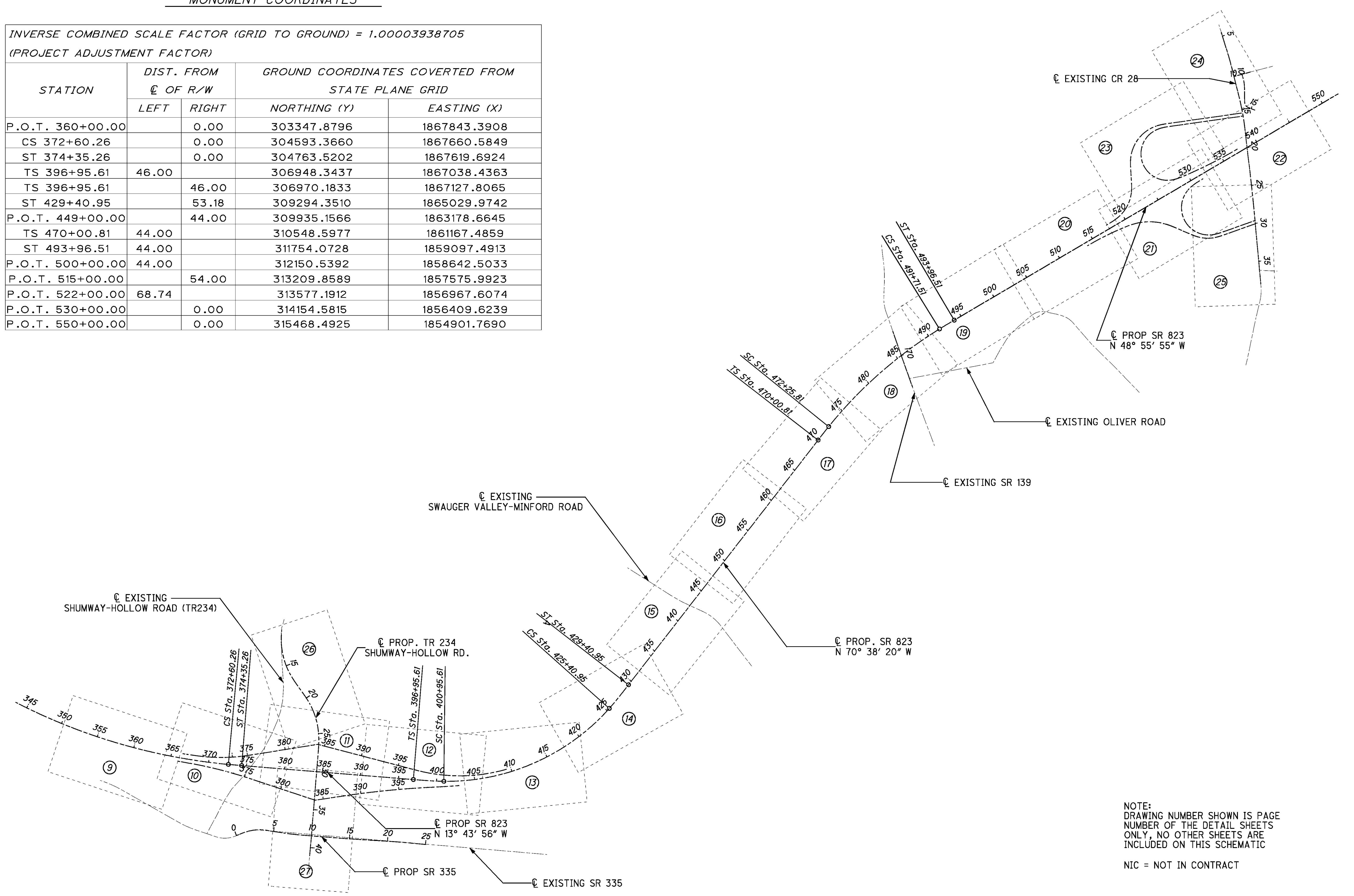
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CENTERLINE PROPOSED SR 823
MONUMENT COORDINATES

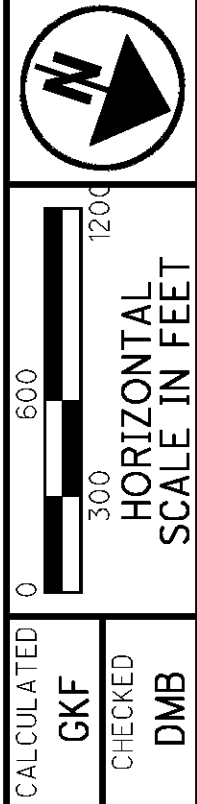
INVERSE COMBINED SCALE FACTOR (GRID TO GROUND) = 1.00003938705
(PROJECT ADJUSTMENT FACTOR)

STATION	DIST. FROM C OF R/W		GROUND COORDINATES COVERED FROM STATE PLANE GRID	
	LEFT	RIGHT	NORTHING (Y)	EASTING (X)
P.O.T. 360+00.00		0.00	303347.8796	1867843.3908
CS 372+60.26		0.00	304593.3660	1867660.5849
ST 374+35.26		0.00	304763.5202	1867619.6924
TS 396+95.61	46.00		306948.3437	1867038.4363
TS 396+95.61		46.00	306970.1833	1867127.8065
ST 429+40.95		53.18	309294.3510	1865029.9742
P.O.T. 449+00.00		44.00	309935.1566	1863178.6645
TS 470+00.81	44.00		310548.5977	1861167.4859
ST 493+96.51	44.00		311754.0728	1859097.4913
P.O.T. 500+00.00	44.00		312150.5392	1858642.5033
P.O.T. 515+00.00		54.00	313209.8589	1857575.9923
P.O.T. 522+00.00	68.74		313577.1912	1856967.6074
P.O.T. 530+00.00		0.00	314154.5815	1856409.6239
P.O.T. 550+00.00		0.00	315468.4925	1854901.7690



NOTE:
DRAWING NUMBER SHOWN IS PAGE
NUMBER OF THE DETAIL SHEETS
ONLY, NO OTHER SHEETS ARE
INCLUDED ON THIS SCHEMATIC

NIC = NOT IN CONTRACT



CALCULATED
GKF
CHECKED
DMB

**SCHEMATIC PLAN
DETAIL SHEET INDEX**

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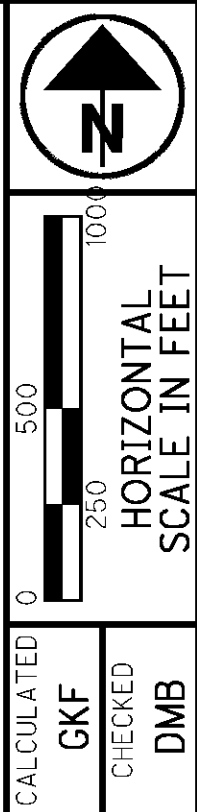
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MONUMENTS TO BE SET DURING CONSTRUCTION (NIC)

E of RIGHT OF WAY	DISTANCE FROM E of RIGHT OF WAY	
	LEFT	RIGHT
SR 823		
S.T. 374+35.26	50.00	50.00
T.S. 396+95.61	50.00	50.00
S.T. 429+40.95	40.00	50.00
439+00.00		50.00
449+00.00		50.00
460+00.00		50.00
465+00.00		50.00
RE-LOCATED TR 234		
S.C. 11+28.46		
C.S. 16+31.67		
S.T. 28+08.47		
E INT S.R.335 38+44.54		
RE-LOCATED SR 335		
P.O.T. 0+00.00		
P.C. 0+93.40		
P.T. 4+11.35		
P.C. 6+37.50		
P.T. 8+14.51		
P.I. 14+50.00 (NO CURVE)		
P.C. 19+77.32		
P.T. 23+18.82		

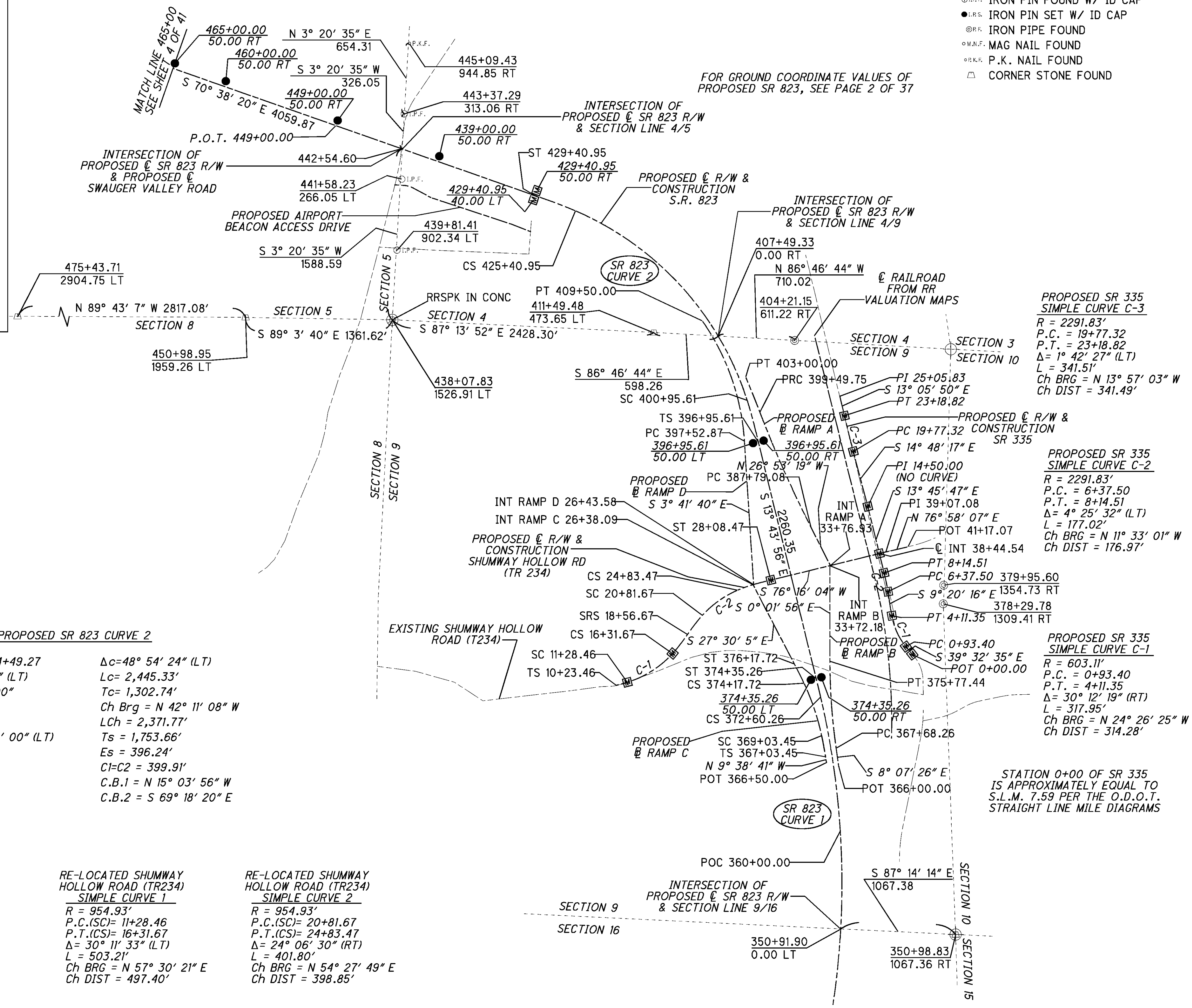
MONUMENT LEGEND

- ▣ PROPOSED R/W MONUMENT BOX
- ⊙ EXISTING CONCRETE MONUMENT
- ⊙ RAILROAD SPIKE FOUND
- I.P.F. IRON PIN FOUND
- ⊙ I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- ⊙ I.P. IRON PIPE FOUND
- ⊙ M.N.F. MAG NAIL FOUND
- ⊙ P.K.F. P.K. NAIL FOUND
- ⊙ CORNER STONE FOUND



SCHEMATIC PLAN

SCI-823-6.81



THE PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF RIGHT OF WAY.

THE PLACING OF MONUMENTS SHALL BE UNDER THE DIRECTION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE CENTERLINE MONUMENT ASSEMBLY BOX(ES) WILL BE INSTALLED BY THE HIGHWAY CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN WITH CAP MARKING THE ACTUAL CENTERLINE STATION POINT AND ANY REFERENCE MONUMENTS ARE TO BE SET BY THE RIGHT OF WAY DESIGN CONSULTANT.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN ON THIS PLAT, REQUIRES PRIOR APPROVAL OF THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR CENTERLINE MONUMENTS, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1 OF THE OHIO DEPARTMENT OF TRANSPORTATION.

PROPOSED SR 823 CURVE 1

P.I. = Sta. 346+07.50
 $\Delta = 43^\circ 17' 20''$ (LT)
 $Dc = 0^\circ 45' 00''$
 $R = 7,639.44'$
 $Ls = 175.00'$
 $Theta = 0^\circ 39' 23''$ (LT)
 $LT = 116.67'$
 $ST = 58.33'$
 $Ts = 3,119.08'$
 $Es = 579.69'$
 $x = 175.00'$
 $y = 0.67'$
 $k = 87.50'$
 $p = 0.17'$

PROPOSED SR 823 CURVE 2

P.I. = Sta. 414+49.27
 $\Delta = 56^\circ 54' 24''$ (LT)
 $Dc = 2^\circ 00' 00''$
 $R = 2,864.79'$
 $Ls = 400.00'$
 $Theta = 4^\circ 00' 00''$ (LT)
 $LT = 266.73'$
 $ST = 133.40'$
 $Ts = 399.81'$
 $x = 9.31'$
 $y = 199.97'$
 $p = 2.33'$

BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY. BEARINGS ARE BASED ON TRUE NORTH DERIVED FROM GPS OBSERVATIONS USING ODOT CORS NETWORK STATIONS, CONVERTED TO THE OHIO STATE PLANE SOUTH ZONE, HORIZONTAL DATUM NAD83(CORS96) EPOCH 2002.0

RE-LOCATED SHUMWAY HOLLOW ROAD (TR234) SIMPLE CURVE 1

$R = 954.93'$
 $P.C.(SC) = 11+28.46$
 $P.T.(CS) = 16+31.67$
 $\Delta = 30^\circ 11' 33''$ (LT)
 $L = 503.21'$
 $Ch BRG = N 57^\circ 30' 21'' E$
 $Ch DIST = 497.40'$

RE-LOCATED SHUMWAY HOLLOW ROAD (TR234) SIMPLE CURVE 2

$R = 954.93'$
 $P.C.(SC) = 20+81.67$
 $P.T.(CS) = 24+83.47$
 $\Delta = 24^\circ 06' 30''$ (RT)
 $L = 401.80'$
 $Ch BRG = N 54^\circ 27' 49'' E$
 $Ch DIST = 398.85'$

STATION 0+00 OF SR 335 IS APPROXIMATELY EQUAL TO S.L.M. 7.59 PER THE O.D.O.T. STRAIGHT LINE MILE DIAGRAMS

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MONUMENTS TO BE SET DURING CONSTRUCTION (NIC)

E of RIGHT OF WAY	DISTANCE FROM E of RIGHT OF WAY	
	LEFT	RIGHT
SR 823		
T.S. 470+00.81	50.00	50.00
S.T. 493+96.51	50.00	40.00
500+00.00		40.00
510+00.00		40.00
516+00.00	60.00	51.00
522+00.00	68.00	40.00
CR 28		
E INT FLOWERS-ISON 10+49.68		
P.C. C-2 13+32.00		
P.T. C-3 29+43.09		
35+00.00		
E INT RASES MTN RD 36+20.57		

MONUMENT LEGEND

- ☐ PROPOSED R/W MONUMENT BOX
- ⊙ EXISTING CONCRETE MONUMENT
- ⊙ RAILROAD SPIKE FOUND
- I.R.F. IRON PIN FOUND
- ⊙ I.R.F. IRON PIN FOUND W/ ID CAP
- I.R.S. IRON PIN SET W/ ID CAP
- ⊙ I.P.F. IRON PIPE FOUND
- M.N.F. MAG NAIL FOUND
- P.K.F. P.K. NAIL FOUND
- △ CORNER STONE FOUND



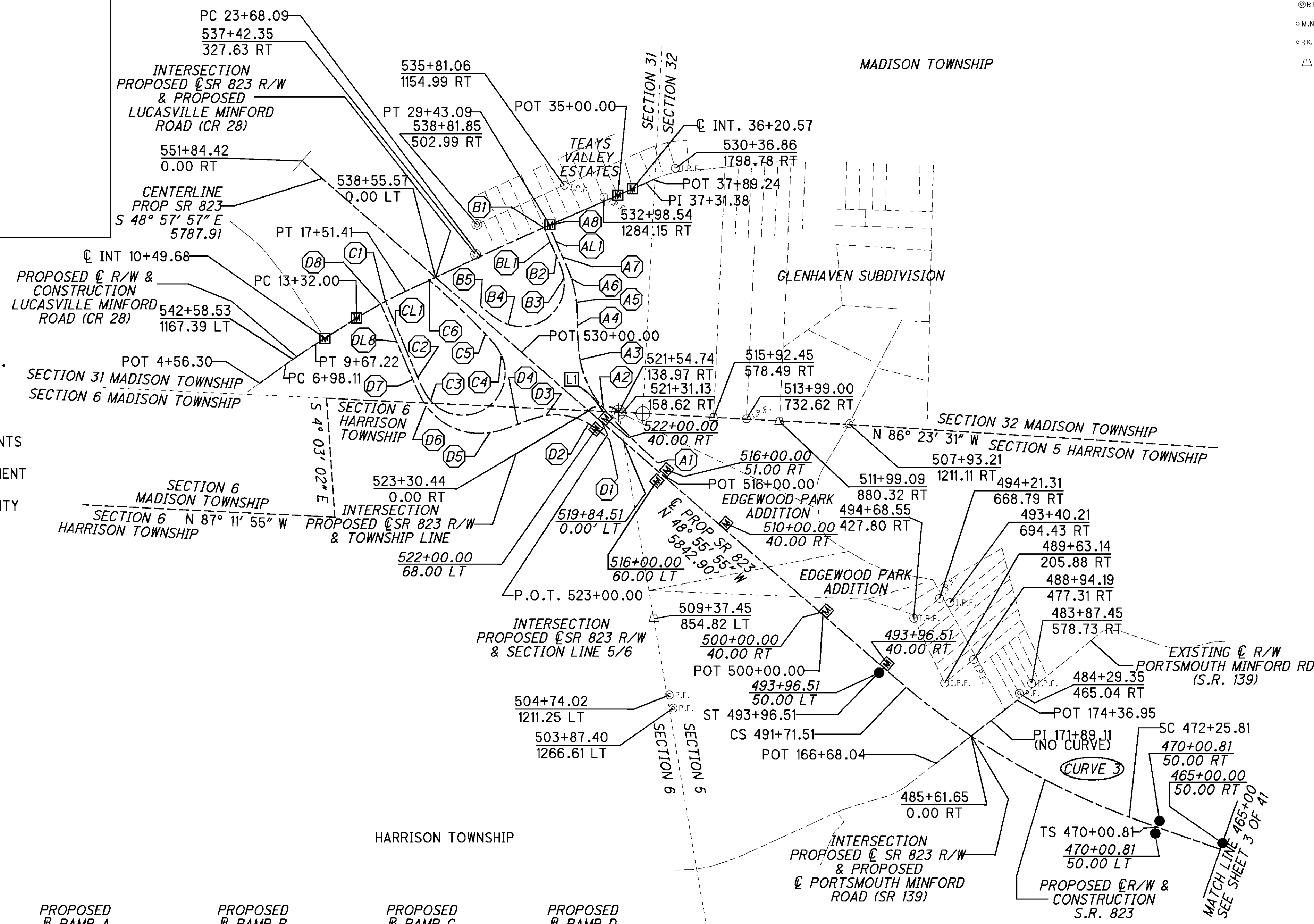
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BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY. BEARINGS ARE BASED ON TRUE NORTH DERIVED FROM GPS OBSERVATIONS USING ODOT CORS NETWORK STATIONS, CONVERTED TO THE OHIO STATE PLANE SOUTH ZONE, HORIZONTAL DATUM NAD83(CORS96) EPOCH 2002.0



PROPOSED SR 823 CURVE 3

P.I. = Sta. 482+11.90	Δc=19° 27' 25" (RT)
Δ=21° 42' 25" (RT)	Lc= 1,945.70'
Dc = 1° 00' 00"	Tc= 982.31'
R = 5,729.58'	Ch Brg = N 59° 47' 07" W
Ls = 225.00'	LCh = 1,936.36'
Theta = 1° 07' 30" (RT)	Cl=C2 = 225.00'
LT = 150.00'	C.B.1 = N 70° 15' 50" W
ST = 75.00'	C.B.2 = S 49° 18' 25" E
Ts = 1,211.09'	
Es = 104.73'	
x = 224.99'	
y = 1.47'	
k = 112.50'	
p = 0.37'	

PROPOSED R RAMP A	PROPOSED R RAMP B	PROPOSED R RAMP C	PROPOSED R RAMP D
(A1) PC 516+80.70	(B1) INT PROP CR28 521+51.62	(C1) INT PROP CR28 513+64.43	(D1) ST 520+70.16
(A2) PCC 522+65.47	(BL1) S 23° 44' 27" E 234.45'	(CL1) S 22° 57' 11" E 620.24'	(D2) SC 522+70.16
(A3) CS 526+71.11	(B2) TS 523+86.07	(C2) TS 519+84.67	(D3) CS 526+01.19
(A4) SRS 529+31.11	(B3) SC 525+61.07	(C3) SC 521+84.67	(D4) SRS 528+21.19
(A5) SC 531+06.11	(B4) SC 532+08.62	(C4) CS 530+93.64	(D5) SC 530+41.19
(A6) CS 532+84.55	(B5) ST 534+58.62	(C5) SC 532+93.64	(D6) CS 535+88.12
(A7) ST 534+59.55		(C6) PT 538+87.92	(D7) ST 538+08.12
(A8) INT PROP CR28 537+19.55			(D8) INT PROP CR 28 544+25.15
(AL1) N 23° 44' 27" W 260.00'			(DL8) N 22° 57' 11" W 617.03'

L1	S 87° 16' 10" E	224.04'
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FOR GROUND COORDINATE VALUES OF PROPOSED SR 823, SEE PAGE 2

SCHEMATIC PLAN

SCI-823-6.81

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UTILITIES

LISTED BELOW ARE ALL UTILITIES OPERATING WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

COLUMBIA GAS OF OHIO
TIFFANY WOODYARD
843 PIATT AVENUE
CHILLICOTHE, OHIO 45601
(740) 772-9131

TIME WARNER CABLE
STEPHEN RAY
3760 INTERCHANGE DRIVE
COLUMBUS, OHIO 43204-4131
(614) 255-6340

AMERICAN ELECTRIC POWER
PAUL PAXTON
850 TECH CENTER DRIVE
GAHANNA, OHIO 43230
(614) 883-6831

SCIOTO COUNTY SANITARY
ENGINEERING
JOE DELONG
602 SEVENTH STREET
PORTSMOUTH, OHIO 45662
(740) 355-8233

MINFORD TELEPHONE COMPANY
PAULA MCGRAW
PO BOX 181
MINFORD, OHIO 45653
(740) 820-2151

SCIOTO COUNTY REGIONAL
WATER AUTHORITY
JONATHAN KING
PO BOX 310
LUCASVILLE, OHIO 45648
(740) 259-2301

SPRINT COMMUNICATIONS, INC.
JOE THOMAS
11370 ENTERPRISE PARK DRIVE
SHARONVILLE, OHIO 45241
(513) 612-4204

PIKE NATURAL GAS COMPANY
ROBERT SEELING JR.
PO BOX 249
HILLSBORO, OHIO 45133
(937) 393-1901

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

THE CONTRACTOR SHOULD BE AWARE THAT THERE ARE KNOWN, AS WELL AS, THE POSSIBILITY OF UNKNOWN GAS WELLS WITHIN THE PROJECT LIMITS.

KNOWN GAS WELL LOCATIONS CAN BE OBTAINED FROM THIS WEB SITE:

<http://ww2.dnr.state.oh.us/website/dog/oilgasviewer/index.html>

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION OF ALL KNOWN AND UNKNOWN GAS WELL FACILITIES AND SHALL NOT DISTURB EXISTING GAS WELLS OR LINES.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAD83 HORIZONTAL DATUM AND NAVD88 VERTICAL DATUM.

ITEM 623, CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THE RIGHT OF WAY TO ESTABLISH THE LIMITS OF THE TREE REMOVAL. NO WORK OR EQUIPMENT SHALL BE PERMITTED OUTSIDE THE RIGHT OF WAY. THE CONTRACTOR SHALL ADHERE TO ALL PROVISIONS STATED IN THE ENVIRONMENTAL COMMITMENTS AND ITEM 201, CLEARING AND GRUBBING, AS PER PLAN.

THE CONTRACTOR WILL BE PROVIDED WITH COORDINATES AND DETAILED RIGHT OF WAY PLANS AT THE PRE-CONSTRUCTION MEETING.

THE LUMP SUM BID FOR ITEM 623, CONSTRUCTION LAYOUT STAKES SHALL INCLUDE ALL EQUIPMENT, MATERIALS AND LABOR TO COMPLETE THE WORK DESCRIBED IN THIS NOTE.

PROJECT WORK DESCRIPTION

THE PLANS FOR THIS PROJECT SHOW THE PROPOSED ROADWAY AND DRAINAGE STRUCTURES THAT WILL BE BUILT UNDER ANOTHER CONTRACT. THE ONLY WORK TO BE PERFORMED UNDER THIS CONTRACT IS THE TREE AND VEGETATION REMOVAL WORK DESCRIBED BELOW.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ITEM 201 CLEARING AND GRUBBING, AS PER PLAN

THIS WORK SHALL CONSIST OF CUTTING DOWN AND CLEANING UP ALL CURRENTLY STANDING TREES, STUMPS, AND VEGETATION WITH A DIAMETER OF 3 INCHES OR GREATER AND A HEIGHT OF 6 FEET OR GREATER LOCATED INSIDE THE "TREE REMOVAL LIMIT" AS SHOWN ON THE PLAN SHEETS. ALL STANDING TREES, STUMPS, AND VEGETATION SHALL BE CUT 6 INCHES FROM THE GROUND. GRUBBING IS NOT PART OF THE WORK.

THE CONTRACTOR WILL REMOVE FROM THE SITE ALL CURRENTLY STANDING TREES, STUMPS, AND VEGETATION CUT, AS PART OF THIS CONTRACT, FOR USE AS LUMBER, PULP WOOD, MULCH OR OTHER USES CONSISTENT WITH OHIO LAW.

THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE GROUND COVER/SOIL AND STREAMS.

TREE AND VEGETATION DIAMETER SHALL BE MEASURED 3 FEET ABOVE THE GROUND.

THE TREE AND VEGETATION REMOVAL LIMITS WILL BE MARKED BY THE CONTRACTOR PRIOR TO ANY CUTTING. THE CONTRACTOR SHALL TAKE CARE NOT TO DISTURB THE RIGHT OF WAY PINS OR ANY REFERENCES OR BENCHMARKS. POINTS THAT ARE DISTURBED SHALL BE REPLACED BY A LICENSED PROFESSIONAL SURVEYOR HIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

CLEARING OF ANY TREES THAT HAVE SUITABLE SUMMER BROOD-REARING OR ROOSTING HABITAT FOR THE FEDERALLY ENDANGERED INDIANA BAT (E.G. LIVING OR STANDING DEAD TREES WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS OR BRANCHES, AND/OR CAVITIES), SHALL OCCUR BEFORE MARCH 30TH OR AFTER OCTOBER 1ST WHEN THE SPECIES WOULD NOT BE USING SUCH HABITAT.

ALL ACCESS ROUTES MUST BE APPROVED IN WRITING BY THE PROJECT ENGINEER 5 DAYS BEFORE THE USE OF COUNTY OR TOWNSHIP ROADS.

PAYMENT FOR THE TREE CLEARING WORK SHALL INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR.

PAYMENT FOR THE TREE CLEARING WORK SHALL BE IN A LUMP SUM.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL, AS PER PLAN

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE PLACED BY THE CONTRACTOR WITH THE ENGINEER'S CONCURRENCE FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

A STORM WATER POLLUTION PREVENTION PLAN WILL BE REQUIRED FOR THE PROJECT.

ITEM 832 EACH LUMP SUM

ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE AT THE END OF THE CONTRACT.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED IN THE PLANS.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

TEMPORARY STREAM CROSSING FORDS, AS PER PLAN

STREAM CHANNEL EXCAVATION WITHIN "WATERS OF THE US" IS SUBJECT TO US ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION AND WILL REQUIRE AUTHORIZATION BY THE USACE VIA THE WATERWAY PERMITTING PROCESS (404/401). IN ACCORDANCE WITH THE APPLICABLE WATERWAY PERMITS (404/401) STREAM CHANNEL EXCAVATION CAN NOT EXCEED THE QUANTITIES AND/OR SURFACE AREA THAT HAS BEEN PERMITTED. THE WATERWAY PERMIT CONDITIONS ARE ATTACHED TO THE CONSTRUCTION PLANS AS SPECIAL PROVISIONS AND THE WATERWAY PERMITS WILL BE AVAILABLE IN THE PROJECT CONSTRUCTION OFFICE. TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS, CHANNEL CLEANOUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS. WHERE STREAM CROSSING FORDS ARE NEEDED FOR EQUIPMENT CROSSING, THE CROSSING SHALL COMPLY WITH THE SPECIAL PROVISIONS

COOPERATION BETWEEN CONTRACTORS

AT ANY TIME, THE DEPARTMENT MAY CONTRACT FOR OTHER WORK ON OR NEAR THE PROJECT.

SEPARATE CONTRACTORS WORKING WITHIN THE LIMITS OF THE PROJECT SHALL CONDUCT THEIR WORK WITHOUT INTERFERING WITH OR HINDERING THE PROGRESS OR COMPLETION OF WORK BEING PERFORMED BY OTHER CONTRACTORS AND SHALL COOPERATE WITH EACH OTHER AS DIRECTED BY THE ENGINEER.

WASTE AND BORROW AREAS

HIRE AN ECOLOGICAL ENVIRONMENTAL CONSULTANT TO CERTIFY THAT THE PROPOSED BORROW AND WASTE OPERATIONS WILL NOT IMPACT "THE WATERS OF THE UNITED STATES" OR AN ISOLATED WETLAND(S) OR TO OBTAIN AN U.S. ARMY CORPS OF ENGINEERS 404 PERMIT AND AN OHIO EPA 401 PERMIT, PER THE REQUIREMENTS OF CONSTRUCTION AND MATERIAL SPECIFICATIONS 105.16.

HIRE A CULTURAL RESOURCE ENVIRONMENTAL CONSULTANT PER CONSTRUCTION AND MATERIAL SPECIFICATIONS IN 105.16 TO PERFORM A CULTURAL RESOURCE INVESTIGATION FOR ALL WASTE AND BORROW AREAS OUTSIDE THE RIGHT-OF-WAY LIMITS.

THE CONTRACTOR SHALL NOT BORROW FROM A SITE KNOWN OR SUSPECTED OF HAVING CONTAMINATED SOIL OR WATER.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED AN ELEVATION OF 750 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NO. 2011-AGL-7796-OE OR 2011-AGL-8018-OE IS BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED.

COPIES OF THE ALTERATION AND FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

Express Processing Center
The Federal Aviation Administration
Southwest Regional Office
Air Traffic Airspace Branch ASW-520
2601 Meachan Blvd.
Fort Worth, TX 76137-4298

Ohio Department of Transportation
Office of Aviation
2829 West Dublin-Granville Road
Columbus, Ohio 43235
614-387-2346

CONTRACTOR SHALL REFER TO AERONAUTICAL STUDY NUMBERS LISTED ABOVE FOR CONDITIONS THAT NEED TO BE MET IN ADDITION TO DETERMINATION EXPIRATION DATES AND INSTRUCTIONS FOR EXTENSION REQUESTS.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

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GENERAL NOTES

SCI-823-6.81

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WOODED AREAS

THE TOTAL ACREAGE FOR THE CLEARING IS 293 ACRES. AT A MINIMUM, APPROXIMATELY 100 ACRES OF THE 293 ACRES IS HEAVILY WOODED. THESE AREAS WERE DETERMINED FROM AERIAL MAPPING AND THIS ACREAGE IS ONLY A ROUGH ESTIMATE OF THE HEAVILY WOODED AREAS. IN ADDITION SOME AREAS IN THE PROJECT LIMITS WERE LOGGED BY THE FORMER PROPERTY OWNERS IN ANTICIPATION OF THE HIGHWAY PROJECT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY SITE CONDITIONS AND DENSITY OF THE WOODED AREAS. REMOVAL FROM THE SITE OF PREVIOUSLY CUT TREES AND/OR ABANDONED PORTIONS OF TREES IS NOT REQUIRE, BUT IS PERMISSIBLE AT THE CONTRACTOR'S EXPENSE.

PARCELS 23 AND 24

PARCELS 23 AND 24 SHOWN ON SHEETS 19 - 22 ARE NOT AVAILABLE FOR THE CONTRACTOR TO ACCESS PRIOR TO CONSTRUCTION. ODOT IS NOT GRANTING ACCESS TO PARCELS 23 AND 24 FOR BIDDERS TO ACCESS THESE PARCELS FOR EVALUATION. THEY CAN BE VISUALLY INSPECTED FROM THE PUBLIC ROADWAY.

TIMBER INFORMATION

ODNR DIVISION OF FORESTRY HAS ASSISTED THE DEPARTMENT WITH SOME TIMBER INFORMATION. ALL TIMBER SPECIES, SIZE, VOLUME AND QUANTITY DATA IS FOR INFORMATION ONLY AND IS NOT CONTRACTUAL OR BINDING. THE INFORMATION IS PROVIDED FOR THE BIDDER'S GENERAL KNOWLEDGE. THE DEPARTMENT DOES NOT GUARANTEE THE ACCURACY OF ANY PART. THE DEPARTMENT REQUIRES ALL PROSPECTIVE BIDDERS TO EXAMINE THE PROJECT SITE AND MAKE THEIR OWN INSPECTION AND TIMBER ESTIMATES PRIOR TO SALE.

<i>SPECIES</i>	<i>AVG. DBH</i>	<i>BD. FT. VOLUME</i>
WHITE OAK	16	37,098
BLACK OAK	22	36,790
SOFT MAPLE	16	30,376
HICKORY	18	30,051
YELLOW-POPLAR	16	22,900
OTHER	14	9,557
HARD MAPLE	14	7,877
TOTAL	16	174,649
HARDWOOD PULPWOOD: 8" AVG. DBH, 2,163 TONS INCLUDING TOPS		
CULL: 70 TREES, 16" AVG. DBH		

SAWTIMBER VOLUME ESTIMATED IN TREES GREATER THAN OR EQUAL TO A MINIMUM 14" DBH AND 10" TOP DIB WITH A MINIMUM LENGTH OF 8 FEET AND REASONABLY STRAIGHT AND SOUND. ANY TREES WITH LESS THAN 50% NET SOUND VOLUME IS CONSIDERED CULL. PULPWOOD VOLUME WAS ESTIMATED IN TREES WITH A MINIMUM 6" DBH AND 4" TOP DIB WITH A MINIMUM LENGTH OF 12 FEET AND IN THE TOPS OF SAWTIMBER TREES. TIMBER VOLUME IN ALL CUTTING SECTIONS WAS ESTIMATED WITH SYSTEMATIC SAMPLING.

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GENERAL NOTES

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ITEM 614, MAINTAINING TRAFFIC

THE CONTRACTOR MAY NEED TO PROVIDE FLAGGERS WHEN CUTTING TREES NEXT TO PUBLIC ROADS OR WHERE SLOW MOVING VEHICLES ENTER THE HIGHWAY. MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE STANDARD CONSTRUCTION DRAWINGS, THE CONSTRUCTION AND MATERIALS SPECIFICATIONS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

S.R. 335

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 21 CONSECUTIVE CALENDAR DAYS, WHEN ONE LANE MAY BE TEMPORARILY CLOSED.

ONCE THE CONTRACTOR STARTS CLEARING TREES IN THE HATCHED AREA SHOWN ON SHEET 31 NEAR OR IN THE RAILROAD RIGHT OF WAY THE CONTRACTOR WILL ONLY HAVE 21 CONSECUTIVE CALENDAR DAYS IN WHICH TO COMPLETE ALL THE CLEARING. IF THIS AREA IS NOT COMPLETELY CLEARED WITHIN 21 CALENDAR DAYS THE CONTRACTOR WILL BE ACCESSED \$2,000.00 PER DAY LIQUIDATED DAMAGES FOR EACH DAY OF WORK BEYOND THE 21 DAY LIMIT.

ACCESS TO THE RESIDENTIAL DRIVES SHALL BE MAINTAINED AT ALL TIMES.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 50 M. GAL

CALCULATED
GKF
CHECKED
DMB

MAINTENANCE OF TRAFFIC GENERAL NOTES

SCI-823-6.81

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SHEET NUMBER								PLAN SPLITS			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5-6	7						01/STR/OT									
LUMP							100%			201	11001	LUMP		ROADWAY CLEARING AND GRUBBING, AS PER PLAN		
							100%			832	15000	LUMP		EROSION CONTROL STORM WATER POLLUTION PREVENTION PLAN		
							78,700			832	30000	78,700	EACH	EROSION CONTROL		
	50						50			616	10000	50	M GAL	MAINTENANCE OF TRAFFIC WATER		
							100%			SPECIAL	10000300	LUMP		PREMIUM ON RAILROADS' PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE		
							100%			614	11000	LUMP		MAINTAINING TRAFFIC		
							100%			623	10000	LUMP		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
							100%			624	10000	LUMP		MOBILIZATION		

CALCULATED
GKF
CHECKED
DMB

GENERAL SUMMARY

SCI-823-6.81

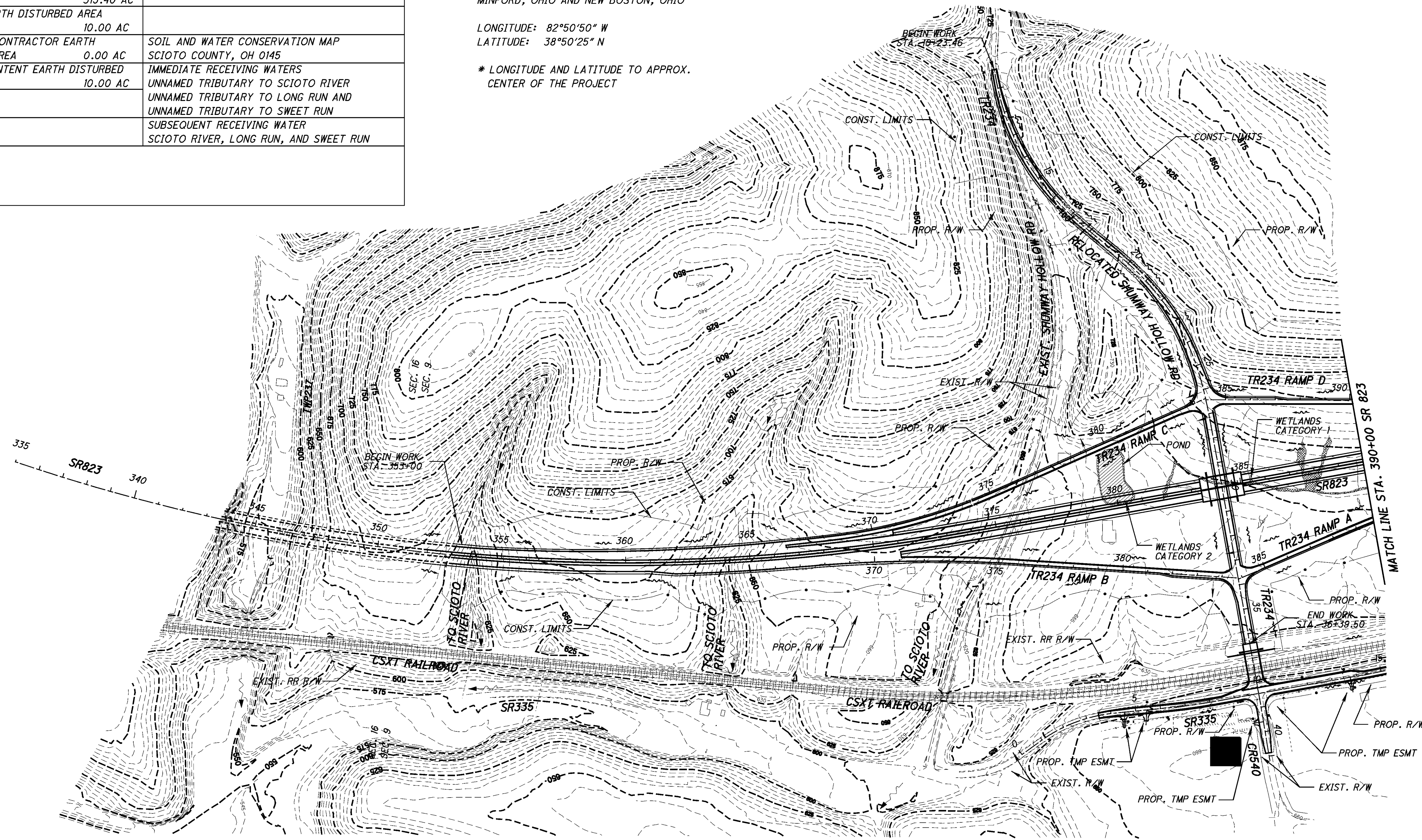
OVERALL PROJECT DATA

TOTAL AREA (RIGHT OF WAY)	315.40 AC	
PROJECT EARTH DISTURBED AREA	10.00 AC	
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.00 AC	SOIL AND WATER CONSERVATION MAP SCIOTO COUNTY, OH 0145
NOTICE OF INTENT EARTH DISTURBED AREA	10.00 AC	IMMEDIATE RECEIVING WATERS UNNAMED TRIBUTARY TO SCIOTO RIVER UNNAMED TRIBUTARY TO LONG RUN AND UNNAMED TRIBUTARY TO SWEET RUN
		SUBSEQUENT RECEIVING WATER SCIOTO RIVER, LONG RUN, AND SWEET RUN

USGS QUADRANT NO. 38082-G7-TF-024 AND
38082-G8-TF-024
MINFORD, OHIO AND NEW BOSTON, OHIO

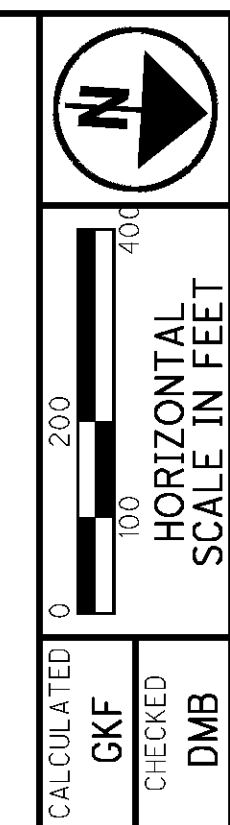
LONGITUDE: 82°50'50" W
LATITUDE: 38°50'25" N

* LONGITUDE AND LATITUDE TO APPROX.
CENTER OF THE PROJECT



STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL



**PROJECT SITE PLAN - SR823
STA. 335+00.00 TO STA. 390+00.00**

SCI-823-6.81

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OVERALL PROJECT DATA

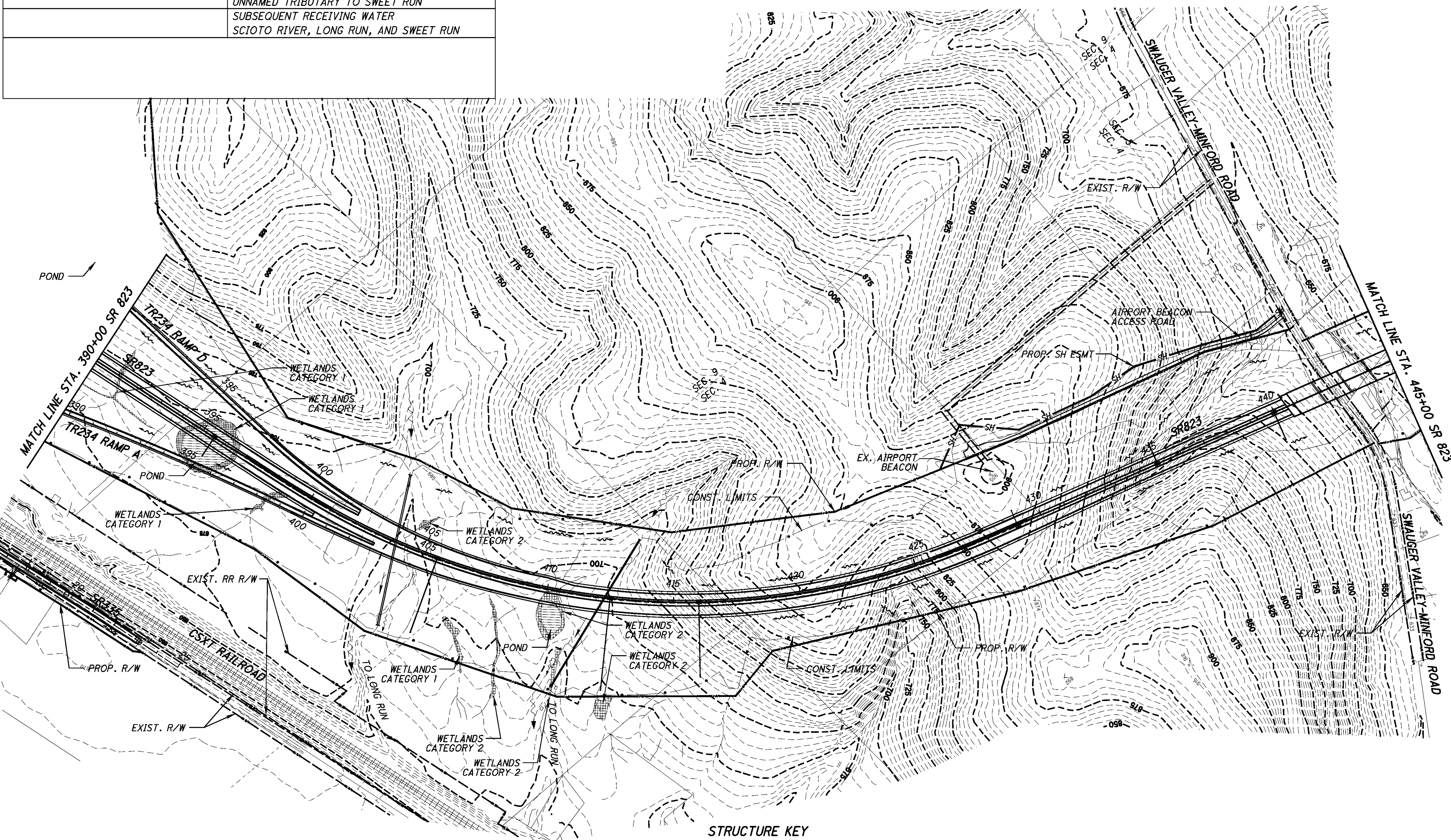
TOTAL AREA (RIGHT OF WAY)	315.40 AC
PROJECT EARTH DISTURBED AREA	10.00 AC
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.00 AC
NOTICE OF INTENT EARTH DISTURBED AREA	10.00 AC
	SOIL AND WATER CONSERVATION MAP SCIOTO COUNTY, OH 0145
	IMMEDIATE RECEIVING WATERS UNNAMED TRIBUTARY TO SCIOTO RIVER UNNAMED TRIBUTARY TO LONG RUN AND UNNAMED TRIBUTARY TO SWEET RUN
	SUBSEQUENT RECEIVING WATER SCIOTO RIVER, LONG RUN, AND SWEET RUN

USGS QUADRANT NO. 38082-G7-TF-024 AND
38082-G8-TF-024
MINFORD, OHIO AND NEW BOSTON, OHIO

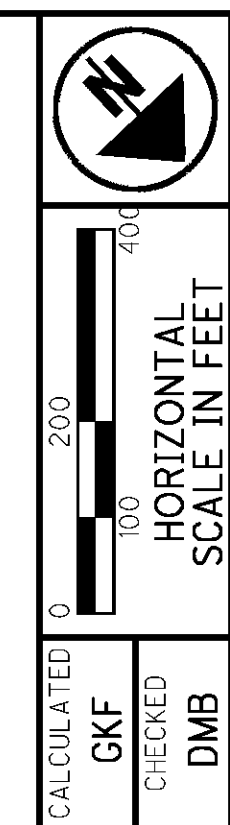
LONGITUDE: 82°50'50" W
LATITUDE: 38°50'25" N

* LONGITUDE AND LATITUDE TO APPROX.
CENTER OF THE PROJECT

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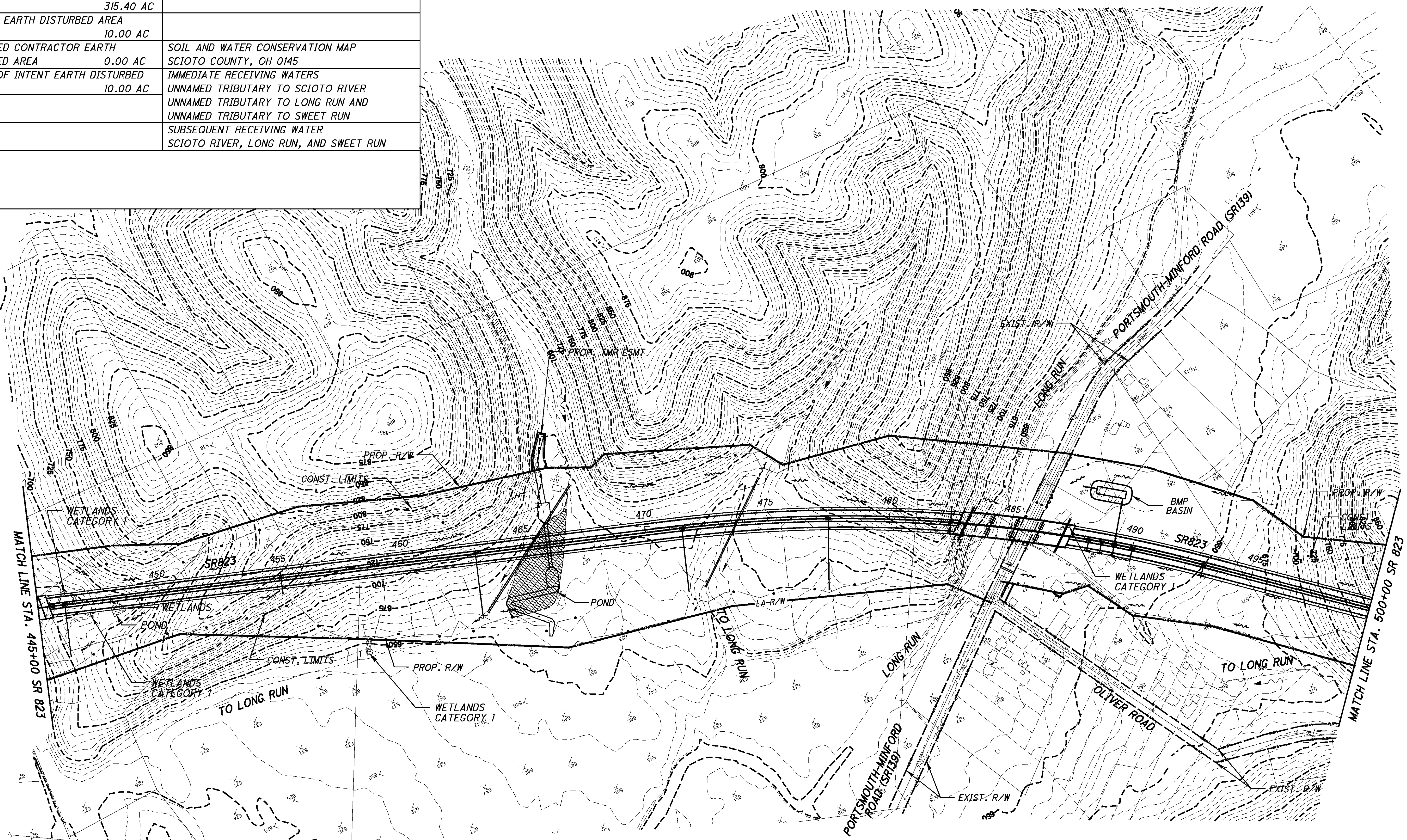
STRUCTURE KEY
 □ RESIDENTIAL
 ■ COMMERCIAL



PROJECT SITE PLAN - SR823
STA. 390+00.00 TO STA. 445+00.00

SCI-823-6.81
 10
 31

OVERALL PROJECT DATA	
TOTAL AREA (RIGHT OF WAY)	315.40 AC
PROJECT EARTH DISTURBED AREA	10.00 AC
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.00 AC
NOTICE OF INTENT EARTH DISTURBED AREA	10.00 AC
SOIL AND WATER CONSERVATION MAP SCIOTO COUNTY, OH 0145	
IMMEDIATE RECEIVING WATERS UNNAMED TRIBUTARY TO SCIOTO RIVER UNNAMED TRIBUTARY TO LONG RUN AND UNNAMED TRIBUTARY TO SWEET RUN	
SUBSEQUENT RECEIVING WATER SCIOTO RIVER, LONG RUN, AND SWEET RUN	



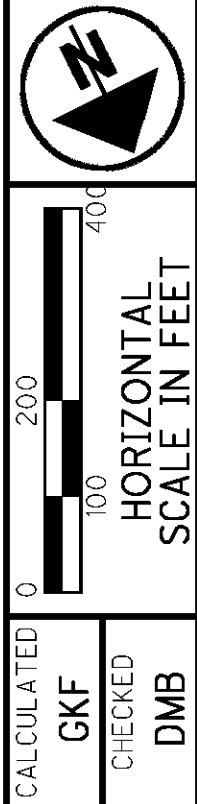
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38082-G8-TF-024
MINFORD, OHIO AND NEW BOSTON, OHIO

LONGITUDE: 82°50'50" W
LATITUDE: 38°50'25" N

* LONGITUDE AND LATITUDE TO APPROX.
CENTER OF THE PROJECT

STRUCTURE KEY
 RESIDENTIAL
 COMMERCIAL

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PROJECT SITE PLAN - SR823
STA. 445+00.00 TO STA. 500+00.00

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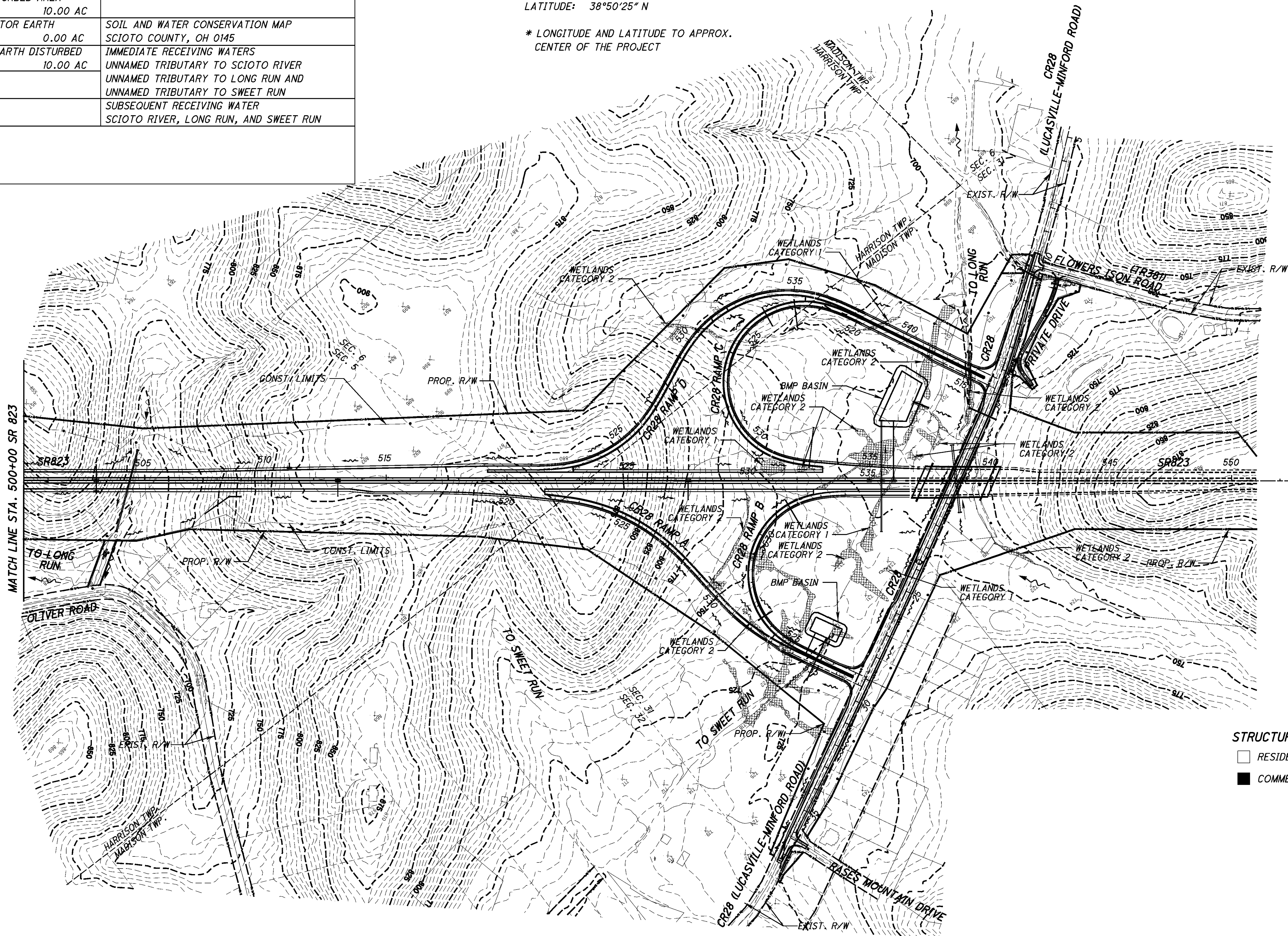
OVERALL PROJECT DATA

TOTAL AREA (RIGHT OF WAY)	315.40 AC
PROJECT EARTH DISTURBED AREA	10.00 AC
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.00 AC
NOTICE OF INTENT EARTH DISTURBED AREA	10.00 AC
	SOIL AND WATER CONSERVATION MAP SCIOTO COUNTY, OH 0145
	IMMEDIATE RECEIVING WATERS UNNAMED TRIBUTARY TO SCIOTO RIVER UNNAMED TRIBUTARY TO LONG RUN AND UNNAMED TRIBUTARY TO SWEET RUN
	SUBSEQUENT RECEIVING WATER SCIOTO RIVER, LONG RUN, AND SWEET RUN

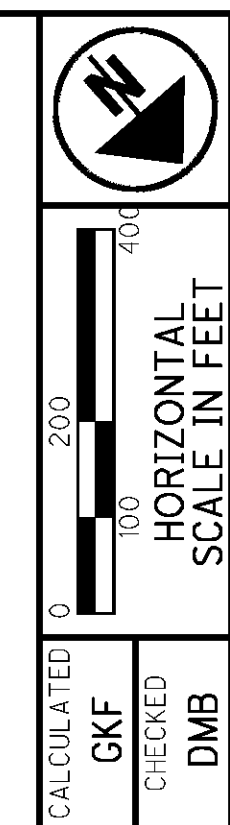
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38082-G8-TF-024
MINFORD, OHIO AND NEW BOSTON, OHIO

LONGITUDE: 82°50'50" W
LATITUDE: 38°50'25" N

* LONGITUDE AND LATITUDE TO APPROX.
CENTER OF THE PROJECT



STRUCTURE KEY
 □ RESIDENTIAL
 ■ COMMERCIAL

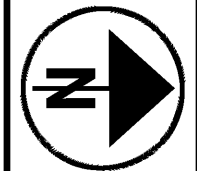


PROJECT SITE PLAN - SR823
STA. 500+00.00 TO STA. 555+00.00

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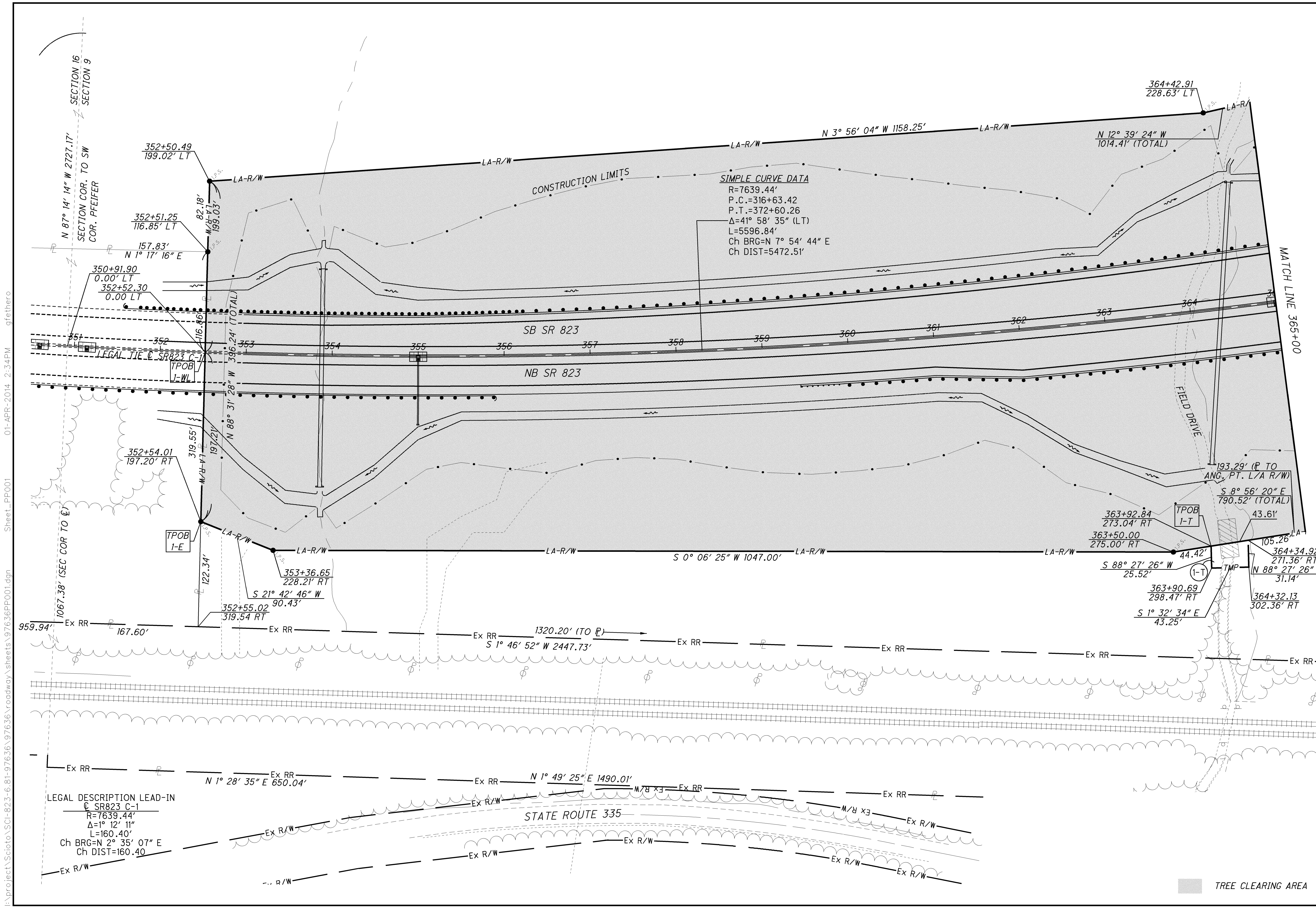


0 25 50 100
 HORIZONTAL
 SCALE IN FEET

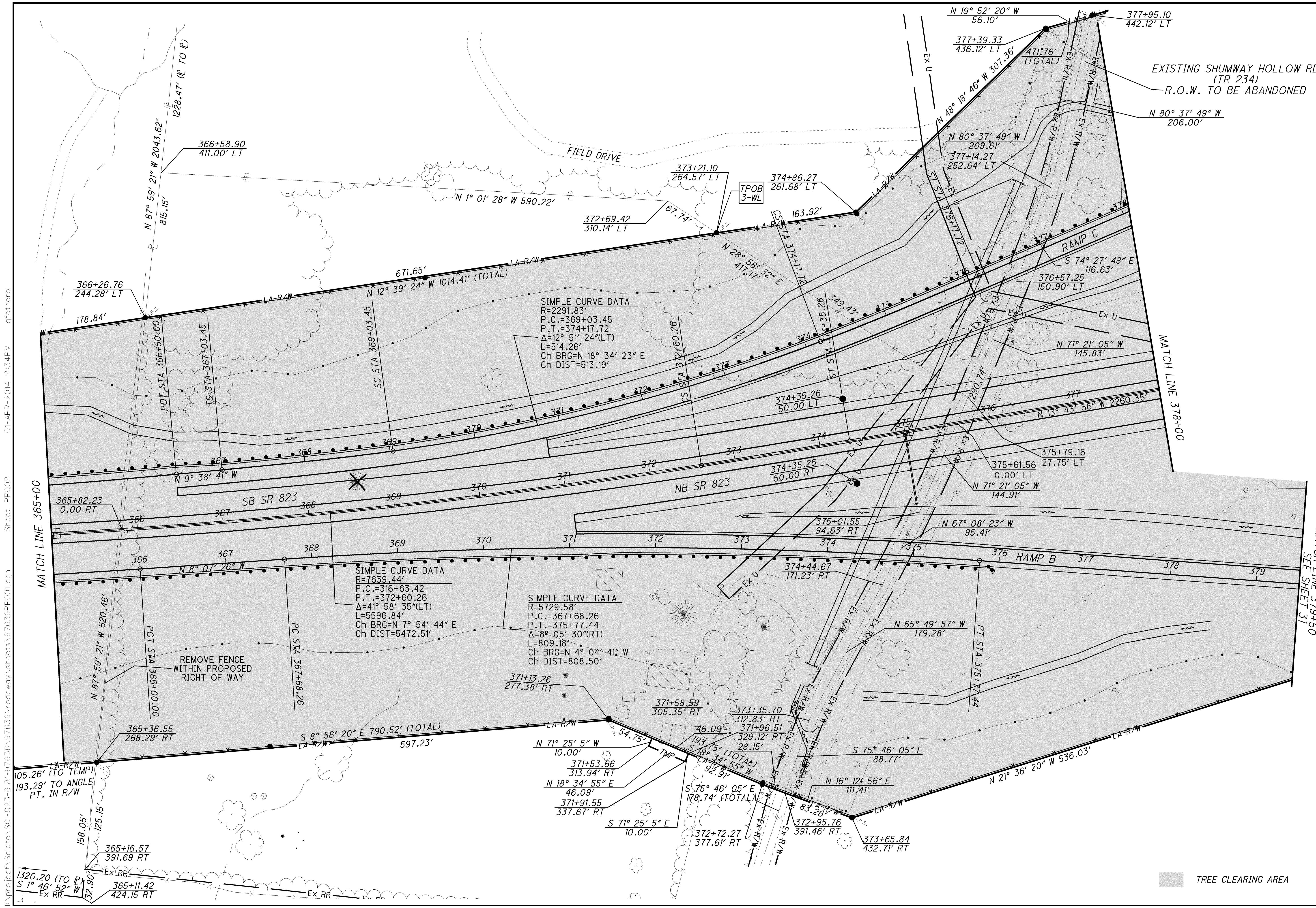
CALCULATED GK
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**TREE CLEARING PLAN
 STA. 352+00 TO STA. 365+50**

SCI-823-6.81



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SIMPLE CURVE DATA
 R=2291.83'
 P.C.=369+03.45
 P.T.=374+17.72
 Δ=12° 51' 24"(LT)
 L=514.26'
 Ch BRG=N 18° 34' 23" E
 Ch DIST=513.19'

SIMPLE CURVE DATA
 R=7639.44'
 P.C.=316+63.42
 P.T.=372+60.26
 Δ=41° 58' 35"(LT)
 L=5596.84'
 Ch BRG=N 7° 54' 44" E
 Ch DIST=5472.51'

SIMPLE CURVE DATA
 R=5729.58'
 P.C.=367+68.26
 P.T.=375+77.44
 Δ=8° 05' 30"(RT)
 L=809.18'
 Ch BRG=N 4° 04' 41" W
 Ch DIST=808.50'

EXISTING SHUMWAY HOLLOW RD
 (TR 234)
 R.O.W. TO BE ABANDONED

TREE CLEARING AREA

CALCULATED 0
 GKF 25
 CHECKED 100
 DMB

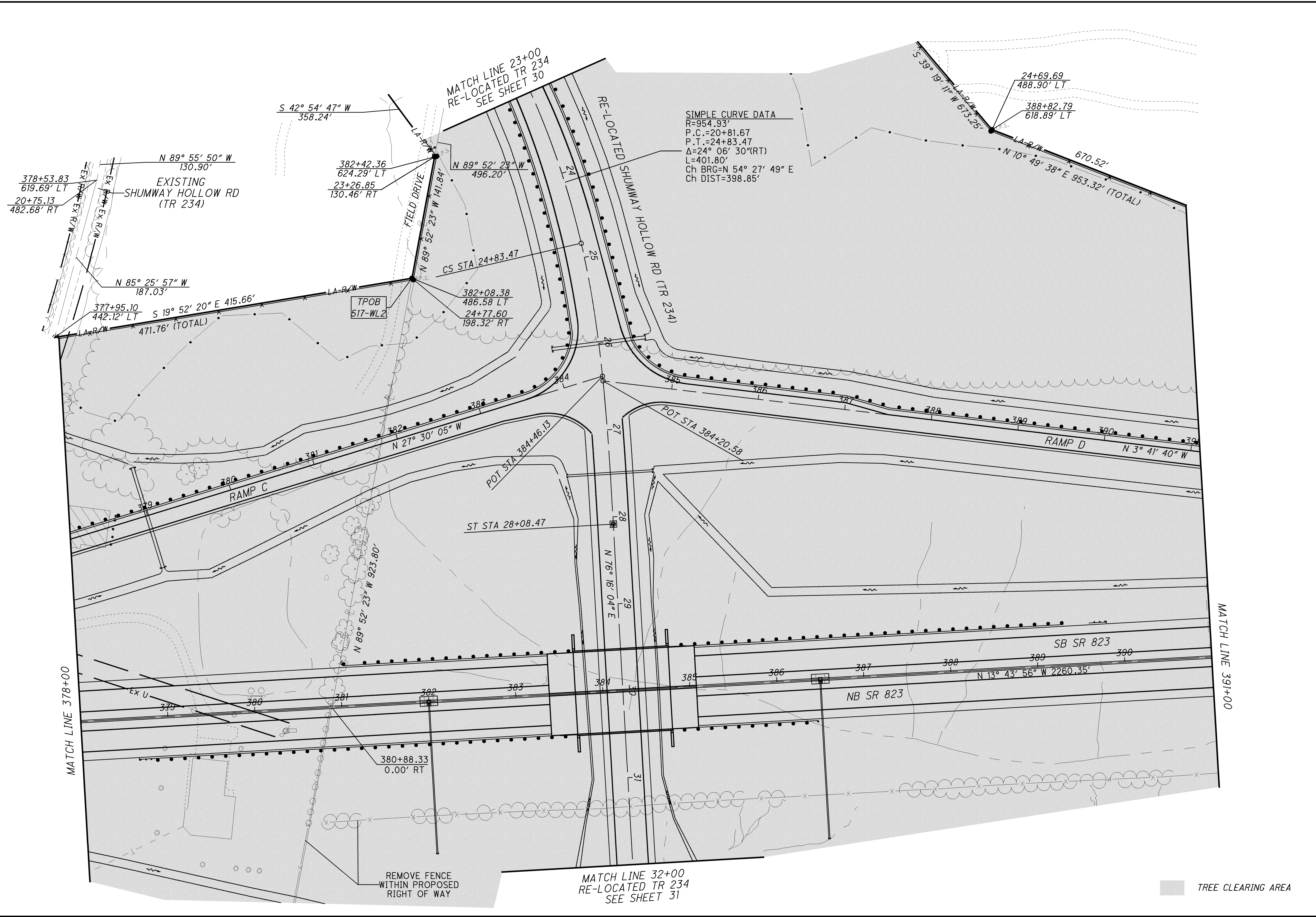
HORIZONTAL SCALE IN FEET

TREE CLEARING PLAN
STA. 365+50 TO STA. 378+00

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SIMPLE CURVE DATA
 R=954.93'
 P.C.=20+81.67
 P.T.=24+83.47
 $\Delta=24^\circ 06' 30''$ (RT)
 L=401.80'
 Ch BRG=N 54° 27' 49" E
 Ch DIST=398.85'

CALCULATED 0
 GKF
 CHECKED
 DMB

0 50 100
 HORIZONTAL
 SCALE IN FEET

TREE CLEARING PLAN
STA. 378+00 TO STA. 391+00

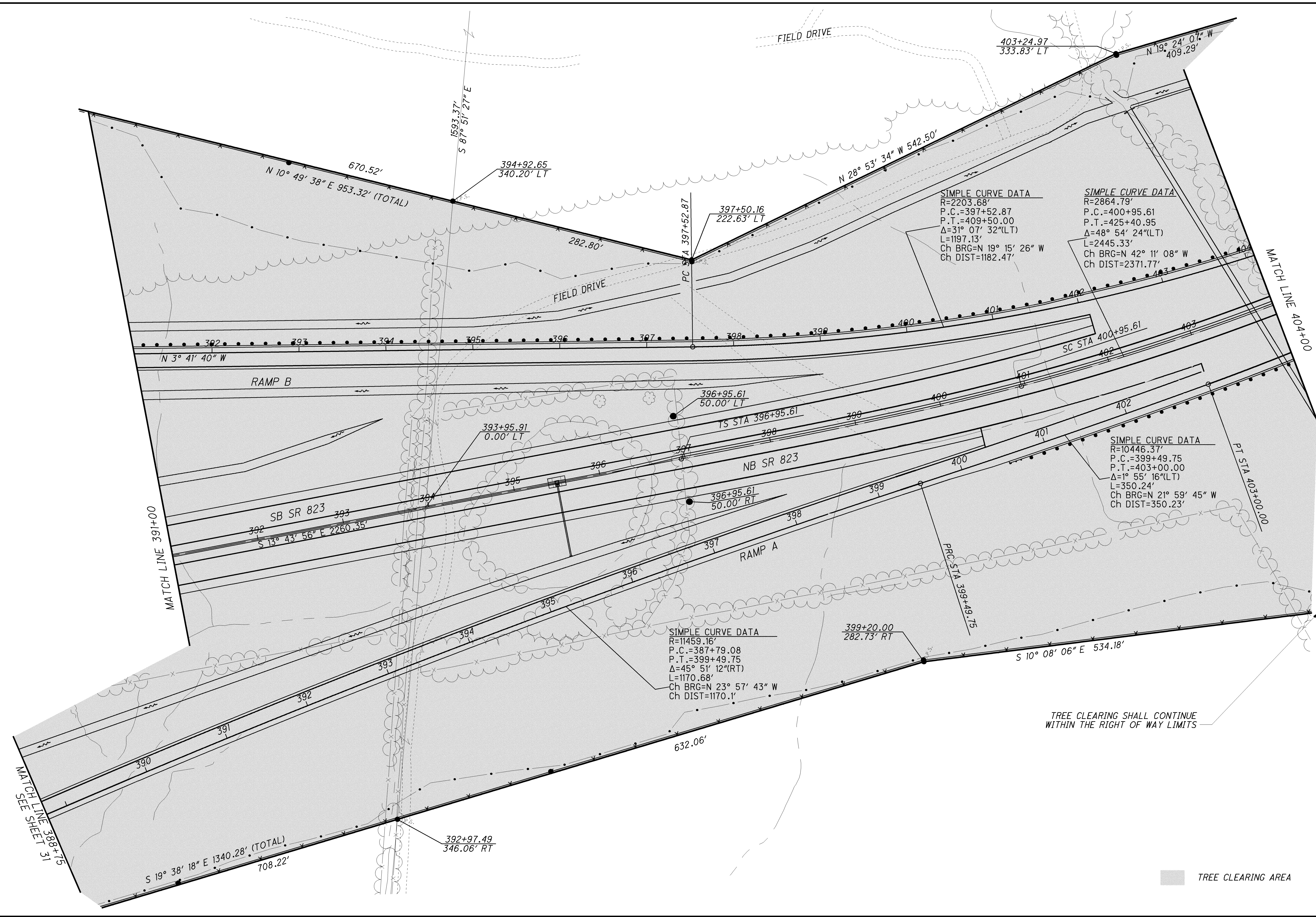
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REMOVE FENCE WITHIN PROPOSED RIGHT OF WAY

■ TREE CLEARING AREA

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CALCULATED GKF CHECKED DMB

0 25 50 100
HORIZONTAL SCALE IN FEET

TREE CLEARING PLAN
STA. 391+00 TO STA. 404+00

SCI-823-6.81

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TREE CLEARING SHALL CONTINUE WITHIN THE RIGHT OF WAY LIMITS

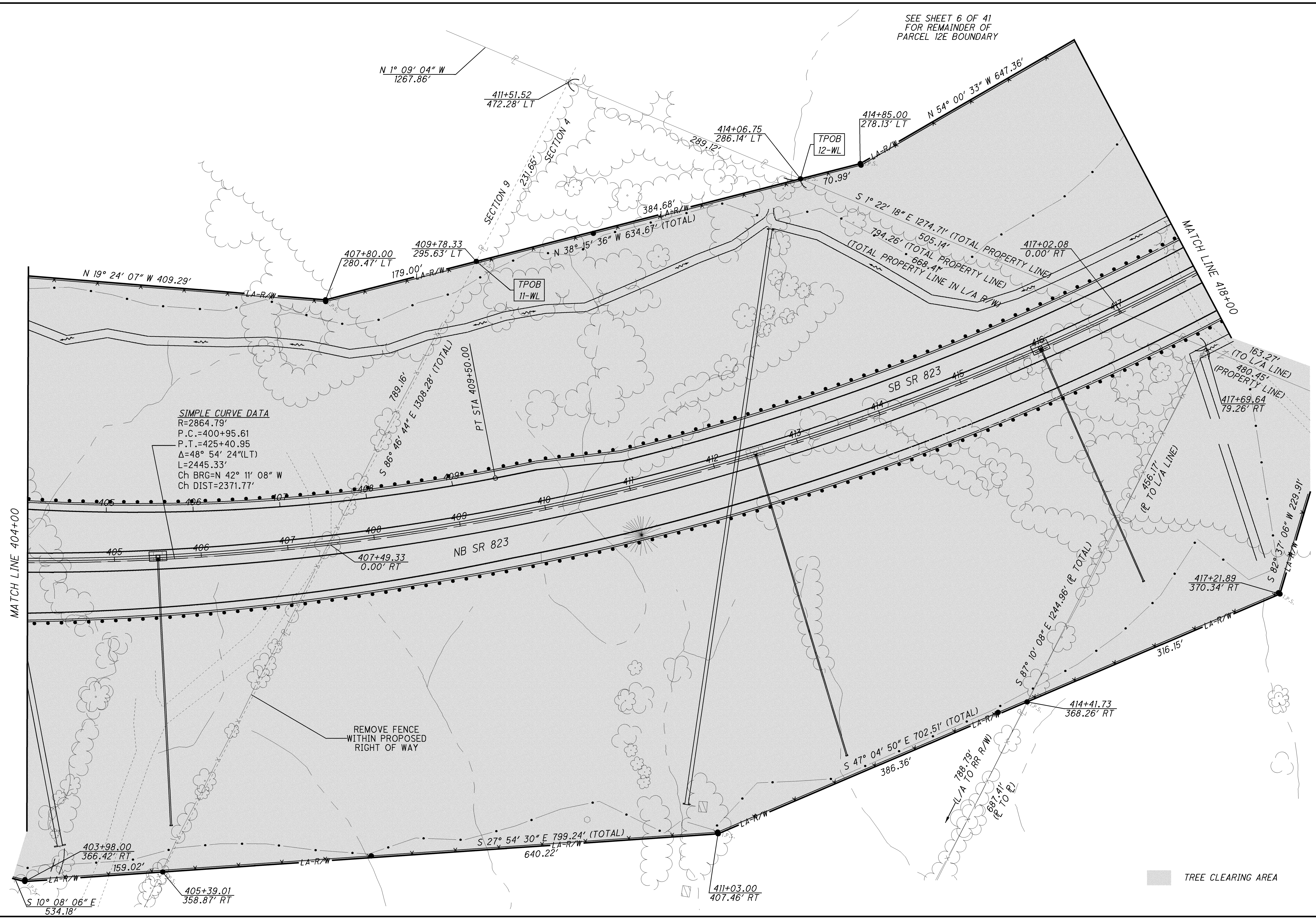
TREE CLEARING AREA

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SEE SHEET 6 OF 41
FOR REMAINDER OF
PARCEL 12E BOUNDARY

CALCULATED: GKF
CHECKED: DMB

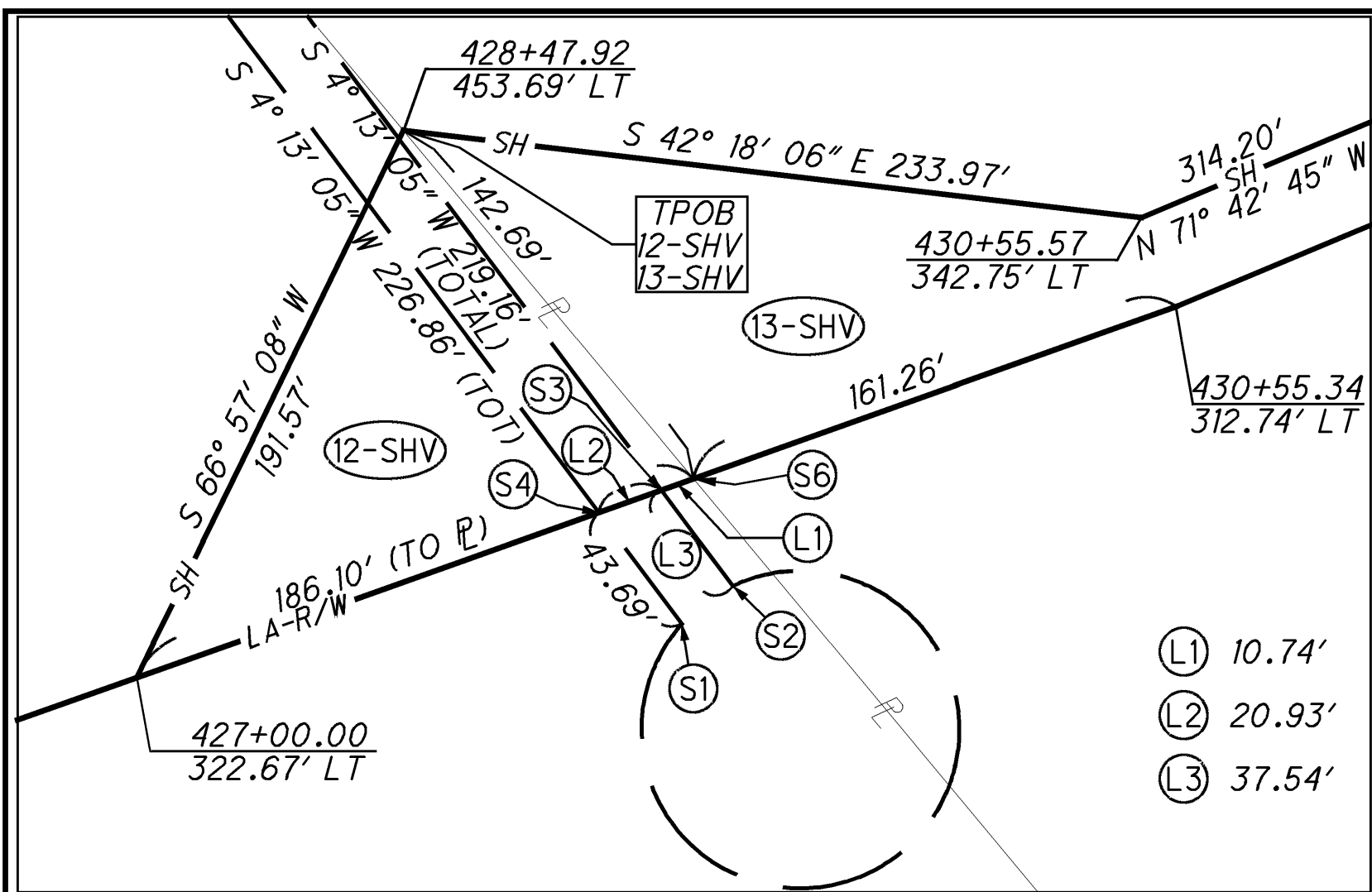
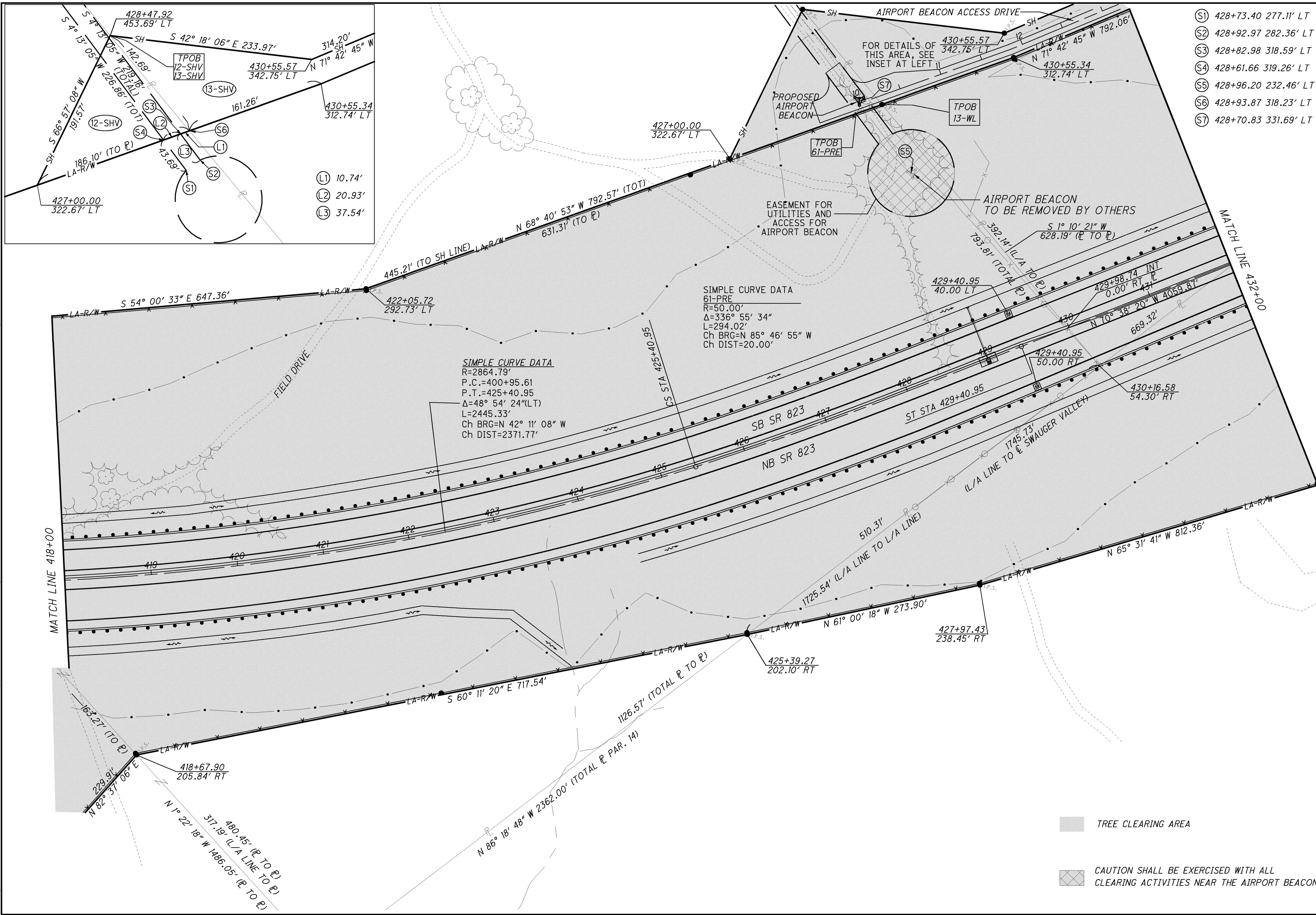
0 25 50 100
HORIZONTAL
SCALE IN FEET



TREE CLEARING PLAN
STA. 404+00 TO STA. 418+00

SCI-823-6.81

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SIMPLE CURVE DATA
 R=2864.79'
 P.C.=400+95.61
 P.T.=425+40.95
 Δ=48° 54' 24"(LT)
 L=2445.33'
 Ch BRG=N 42° 11' 08" W
 Ch DIST=2371.77'

SIMPLE CURVE DATA
 61-PRE
 R=50.00'
 Δ=336° 55' 34"
 L=294.02'
 Ch BRG=N 85° 46' 55" W
 Ch DIST=20.00'

- (S1) 428+73.40 277.11' LT
- (S2) 428+92.97 282.36' LT
- (S3) 428+82.98 318.59' LT
- (S4) 428+61.66 319.26' LT
- (S5) 428+96.20 232.46' LT
- (S6) 428+93.87 318.23' LT
- (S7) 428+70.83 331.69' LT

■ TREE CLEARING AREA

▨ CAUTION SHALL BE EXERCISED WITH ALL CLEARING ACTIVITIES NEAR THE AIRPORT BEACON

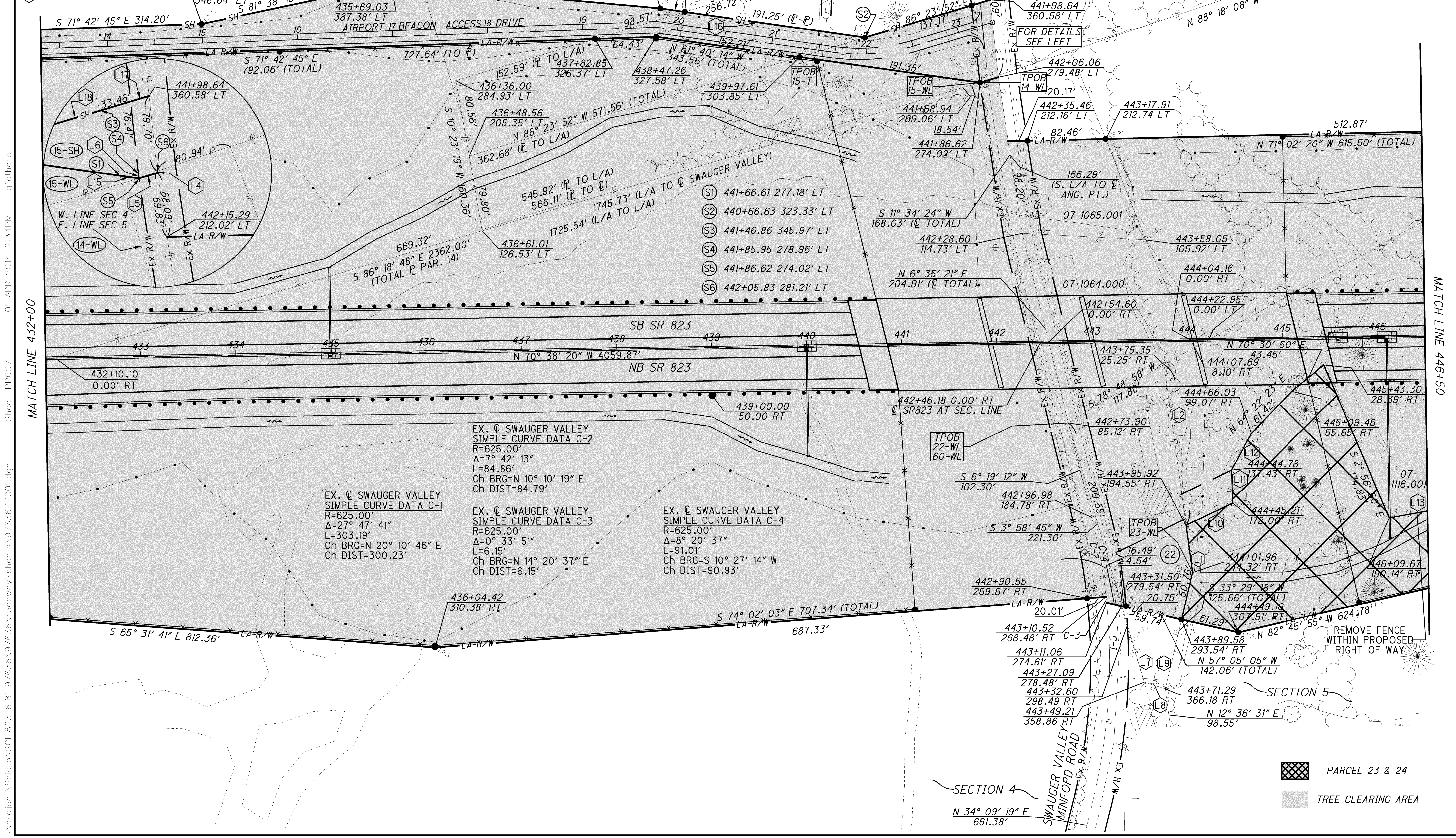
CALCULATED GKF CHECKED DMB

0 25 50 100

HORIZONTAL SCALE IN FEET

TREE CLEARING PLAN
STA. 418+00 TO STA. 432+00

- L1 N 12° 26' 34" E 50.14'
- L2 S 12° 25' 58" W 170.54'
- L3 N 3° 20' 35" E 1148.64' (SEC. COR TO P)
- L4 N 11° 34' 24" E 1.75'
- L5 S 86° 18' 48" E 20.19'
- L6 N 11° 34' 24" E 4.99'
- L7 S 3° 58' 45" W 83.37'
- L8 N 52° 17' 53" W 23.27'
- L9 S 33° 29' 18" W 74.90'
- L10 N 84° 46' 25" E 54.20'
- L11 N 18° 38' 56" E 34.57'
- L12 N 48° 20' 23" E 43.85'
- L13 N 80° 03' 16" W 243.76'
- L14 N 61° 40' 14" W 26.10'
- L15 N 61° 40' 14" W 20.26'
- L16 S 61° 40' 14" E 217.35' (TOTAL)
- L17 N 86° 23' 49" W 20.35'
- L18 N 86° 23' 49" W 83.36' (SEC LINE TO ANG. PT)

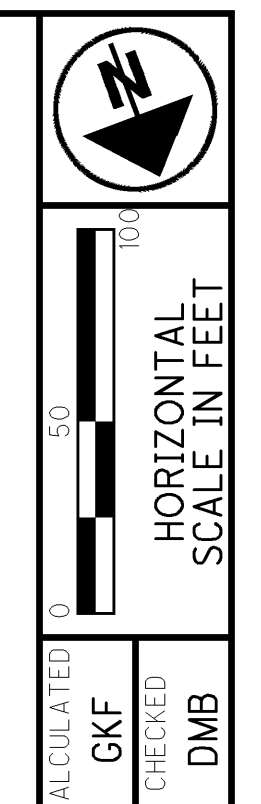


EX. C SWAUGER VALLEY
SIMPLE CURVE DATA C-1
R=625.00'
Δ=27° 47' 41"
L=303.19'
Ch BRG=N 20° 10' 46" E
Ch DIST=300.23'

EX. C SWAUGER VALLEY
SIMPLE CURVE DATA C-2
R=625.00'
Δ=7° 42' 13"
L=84.86'
Ch BRG=N 10° 10' 19" E
Ch DIST=84.79'

EX. C SWAUGER VALLEY
SIMPLE CURVE DATA C-3
R=625.00'
Δ=0° 33' 51"
L=6.15'
Ch BRG=N 14° 20' 37" E
Ch DIST=6.15'

EX. C SWAUGER VALLEY
SIMPLE CURVE DATA C-4
R=625.00'
Δ=8° 20' 37"
L=91.01'
Ch BRG=S 10° 27' 14" W
Ch DIST=90.93'



CALCULATED GKF
CHECKED DMB

SCIENTIFIC
TREE CLEARING PLAN
STA. 432+00 TO STA. 446+50
19
31

I:\project\Scioto\SCI-823-6.81-97636\roadway\sheets\97636PP001.dgn Sheet_PP007 01-APR-2014 2:34PM gfeher

MATCH LINE 432+00

MATCH LINE 446+50

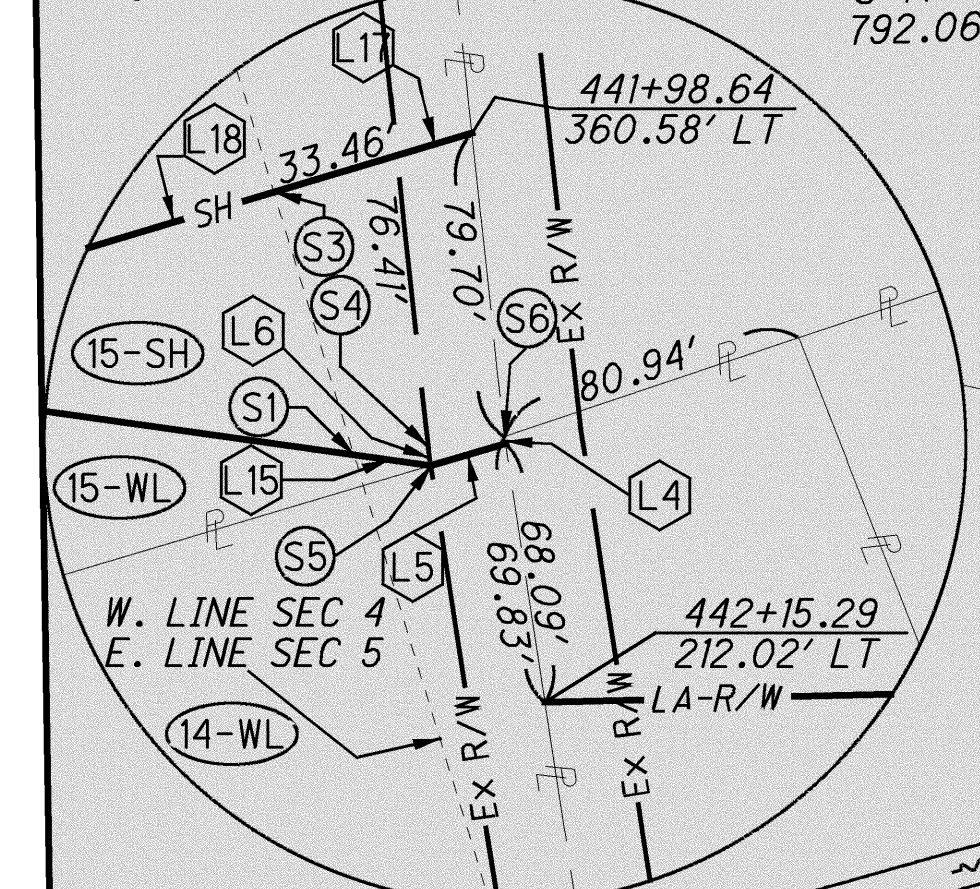
PARCEL 23 & 24
TREE CLEARING AREA

SECTION 4
N 34° 09' 19" E
661.38'

SECTION 5
N 12° 36' 31" E
98.55'

SWAUGER VALLEY
MINFORD ROAD

SWAUGER VALLEY
MINFORD ROAD



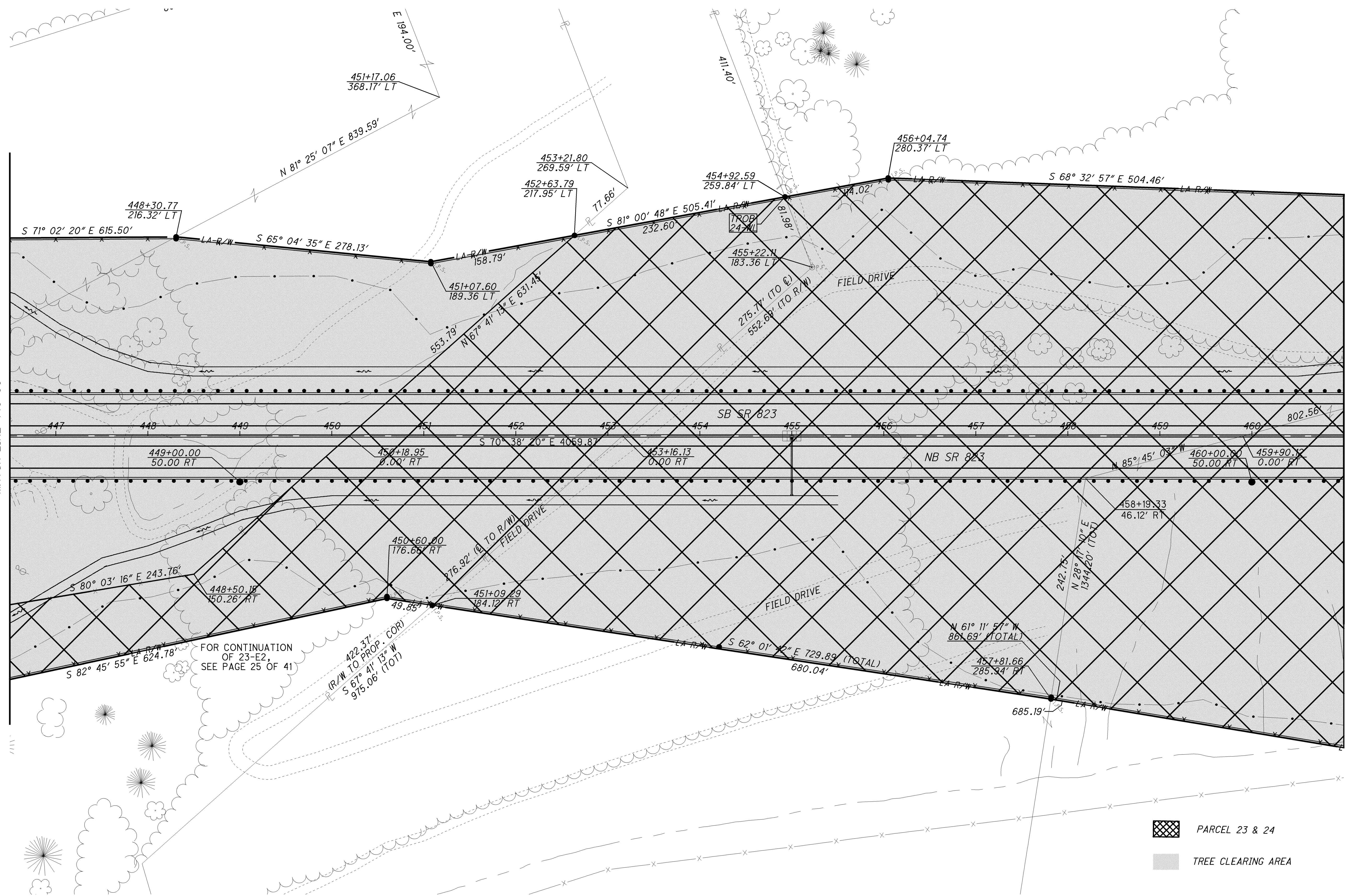
FOR DETAILS
SEE LEFT

REMOVE FENCE
WITHIN PROPOSED
RIGHT OF WAY

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MATCH LINE 446+50

MATCH LINE 461+00



FOR CONTINUATION OF 23-E2, SEE PAGE 25 OF 41

422.37' (R/W TO PROP. COR.)
S 67° 41' 13" W
975.06' (101)

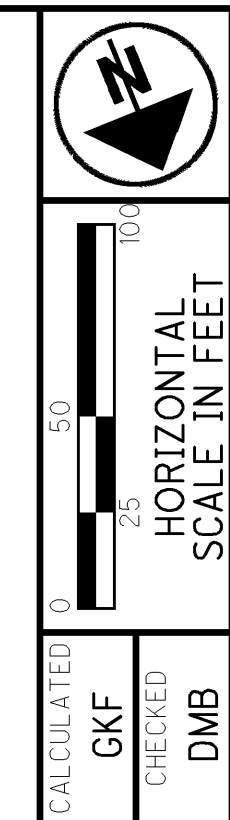
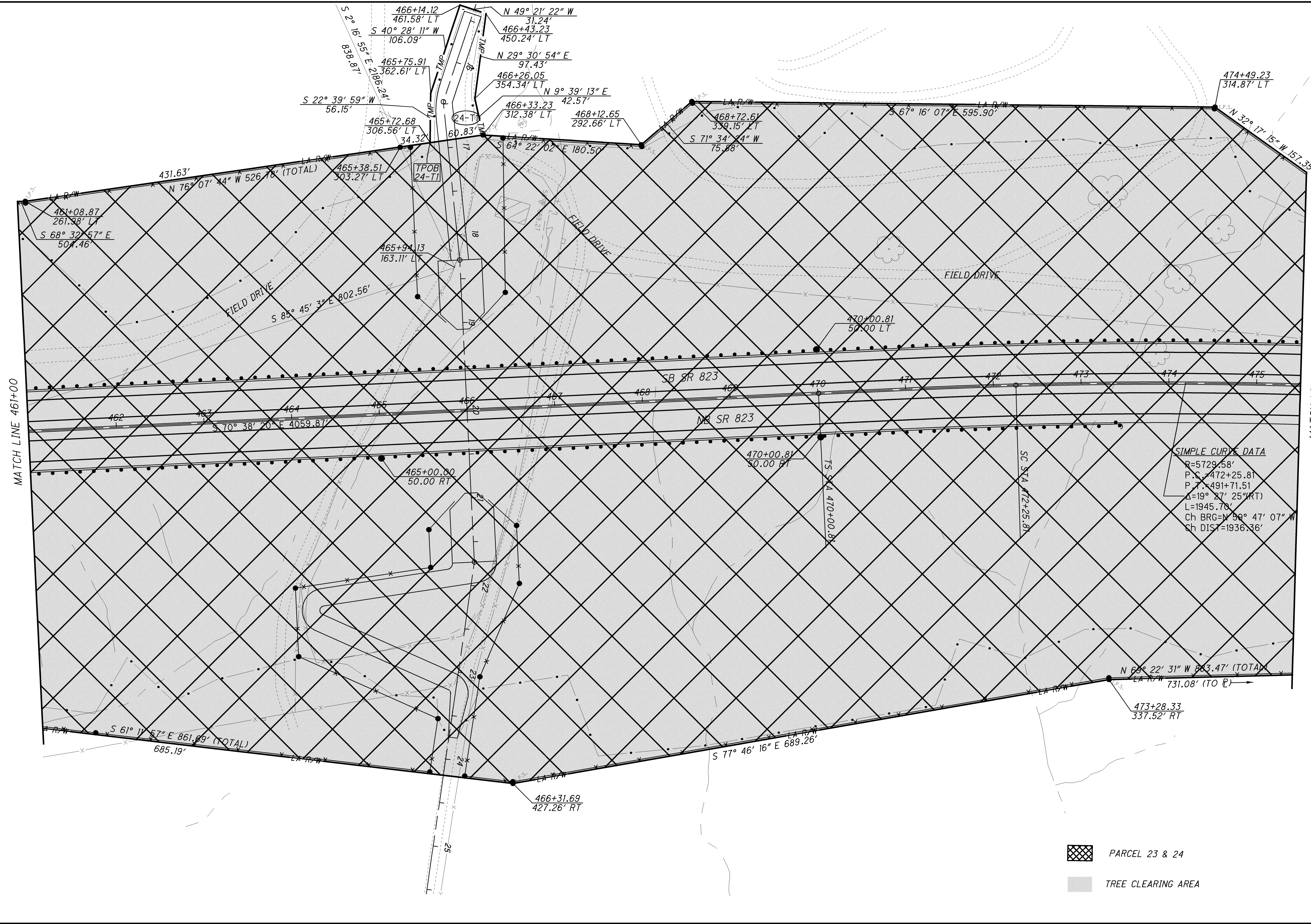
- PARCEL 23 & 24
- TREE CLEARING AREA

CALCULATED: GKF
CHECKED: DMB

0 50 100
HORIZONTAL SCALE IN FEET

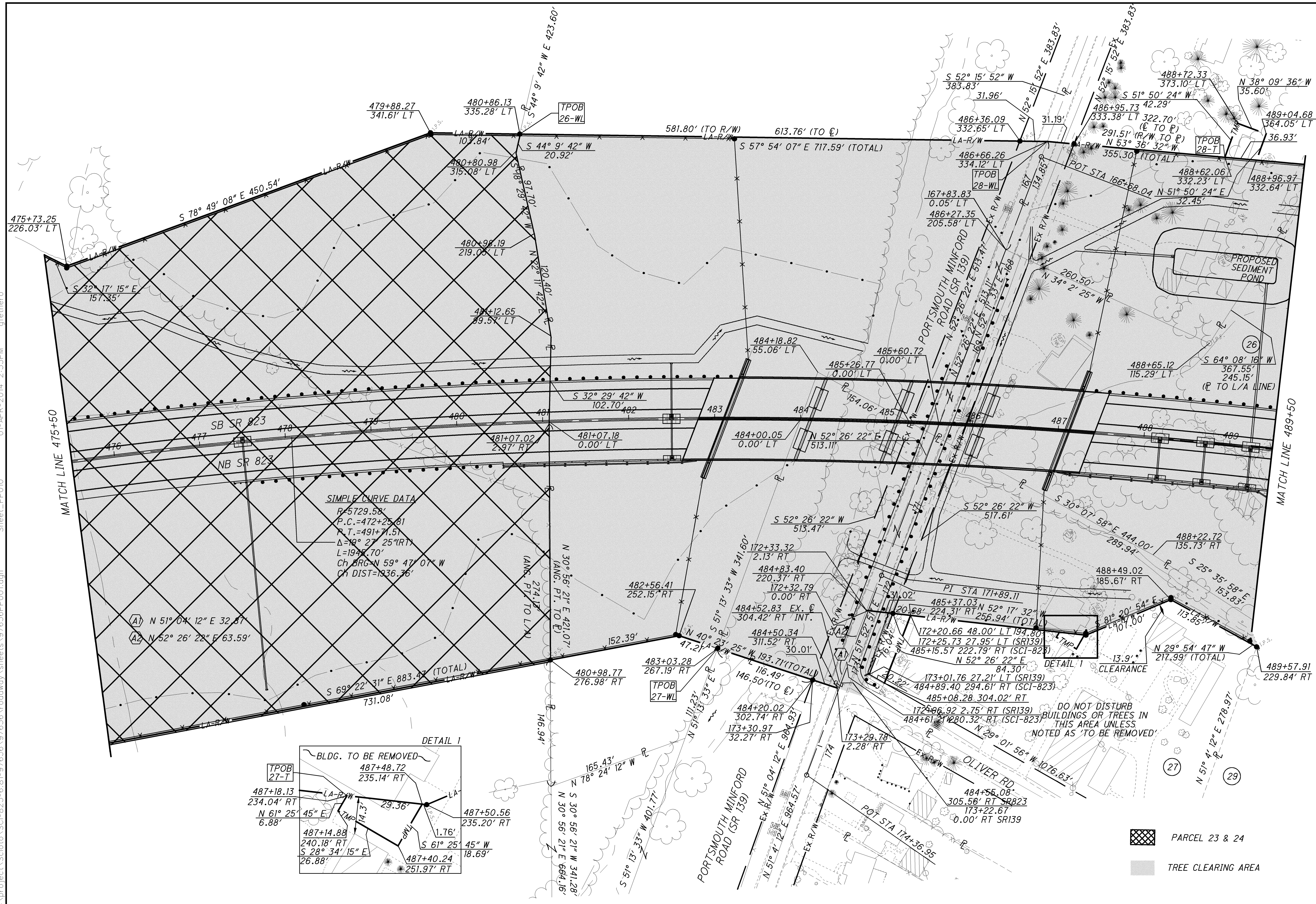
TREE CLEARING PLAN
STA. 446+50 TO STA. 461+00

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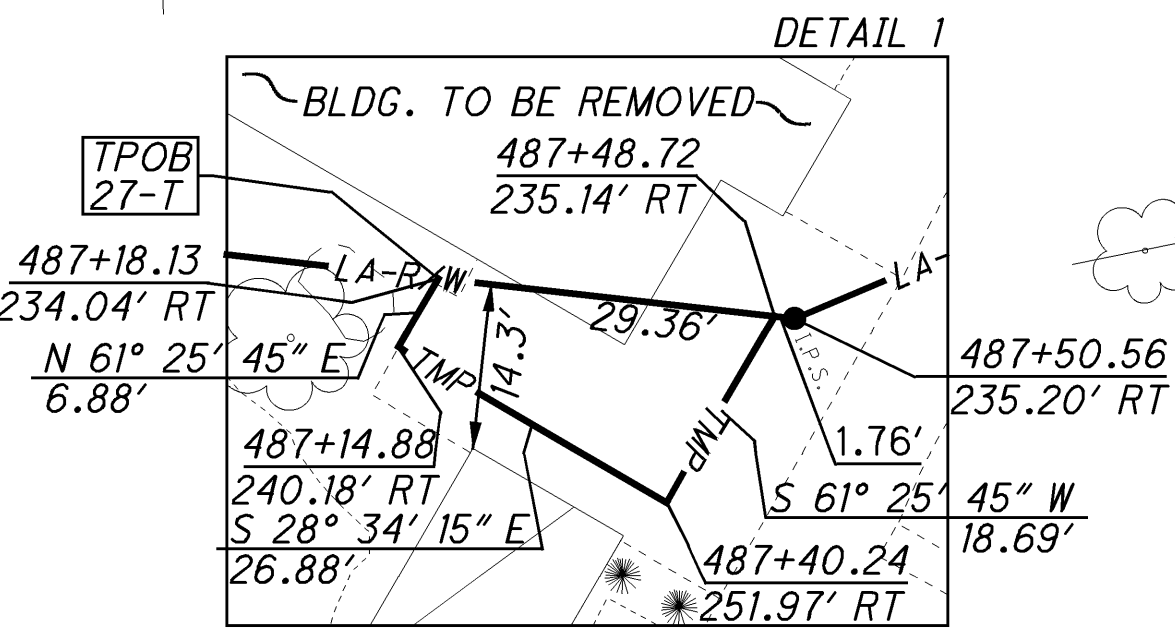


TREE CLEARING PLAN
STA. 461+00 TO STA. 475+50

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SIMPLE CURVE DATA
 R=5729.58'
 P.C.=472+25.81
 P.T.=491+71.51
 Δ=19° 27' 25" (RT)
 L=1948.70'
 Ch BRC=N 59° 47' 07" W
 Ch DIST=1936.36'



PARCEL 23 & 24

TREE CLEARING AREA

DO NOT DISTURB BUILDINGS OR TREES IN THIS AREA UNLESS NOTED AS 'TO BE REMOVED'

TREE CLEARING PLAN
STA. 475+50 TO STA. 489+50

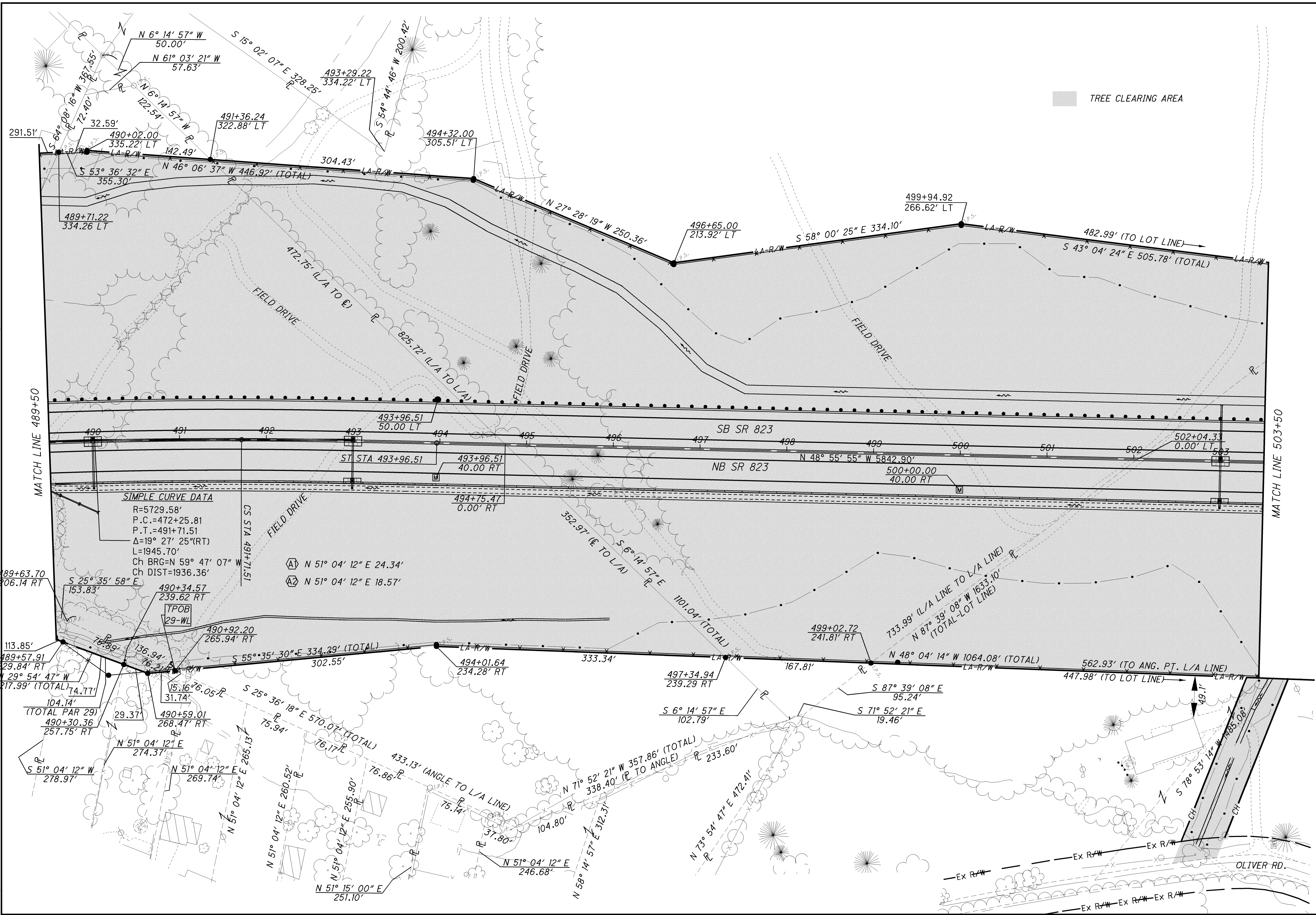
SCI-823-6.81

22
31

CALCULATED: []
 GKF: []
 CHECKED: []
 DMB: []

HORIZONTAL SCALE IN FEET
 0 25 50 100

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TREE CLEARING AREA

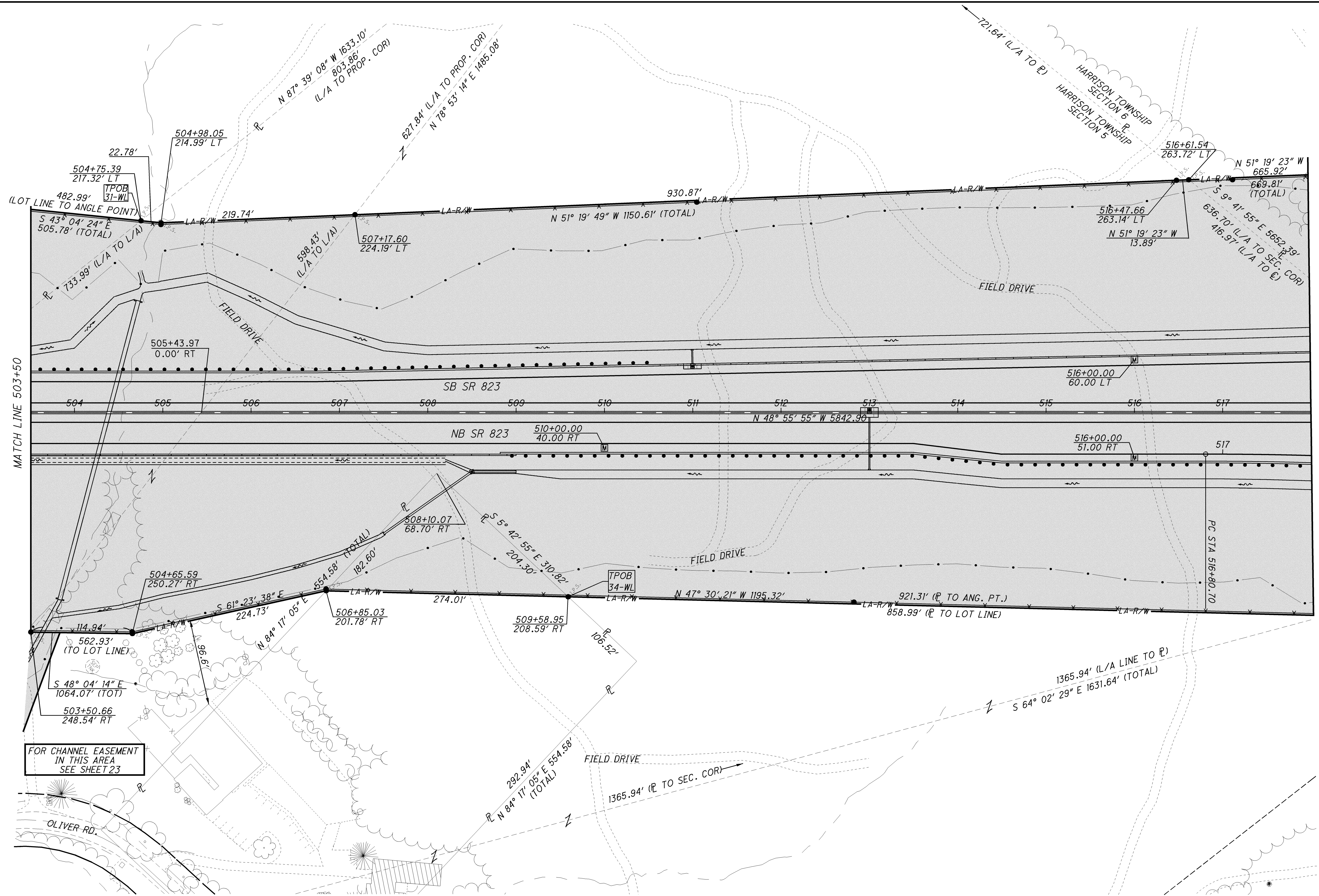
SIMPLE CURVE DATA
 R=5729.58'
 P.C.=472+25.81
 P.T.=491+71.51
 Δ=19° 27' 25"(RT)
 L=1945.70'
 Ch BRG=N 59° 47' 07" W
 Ch DIST=1936.36'

Ⓐ N 51° 04' 12" E 24.34'
 Ⓑ N 51° 04' 12" E 18.57'

CALCULATED: []
 GK: []
 CHECKED: []
 DMB: []

TREE CLEARING PLAN
STA. 489+50 TO STA. 503+50

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FOR CHANNEL EASEMENT
IN THIS AREA
SEE SHEET 23

TREE CLEARING AREA

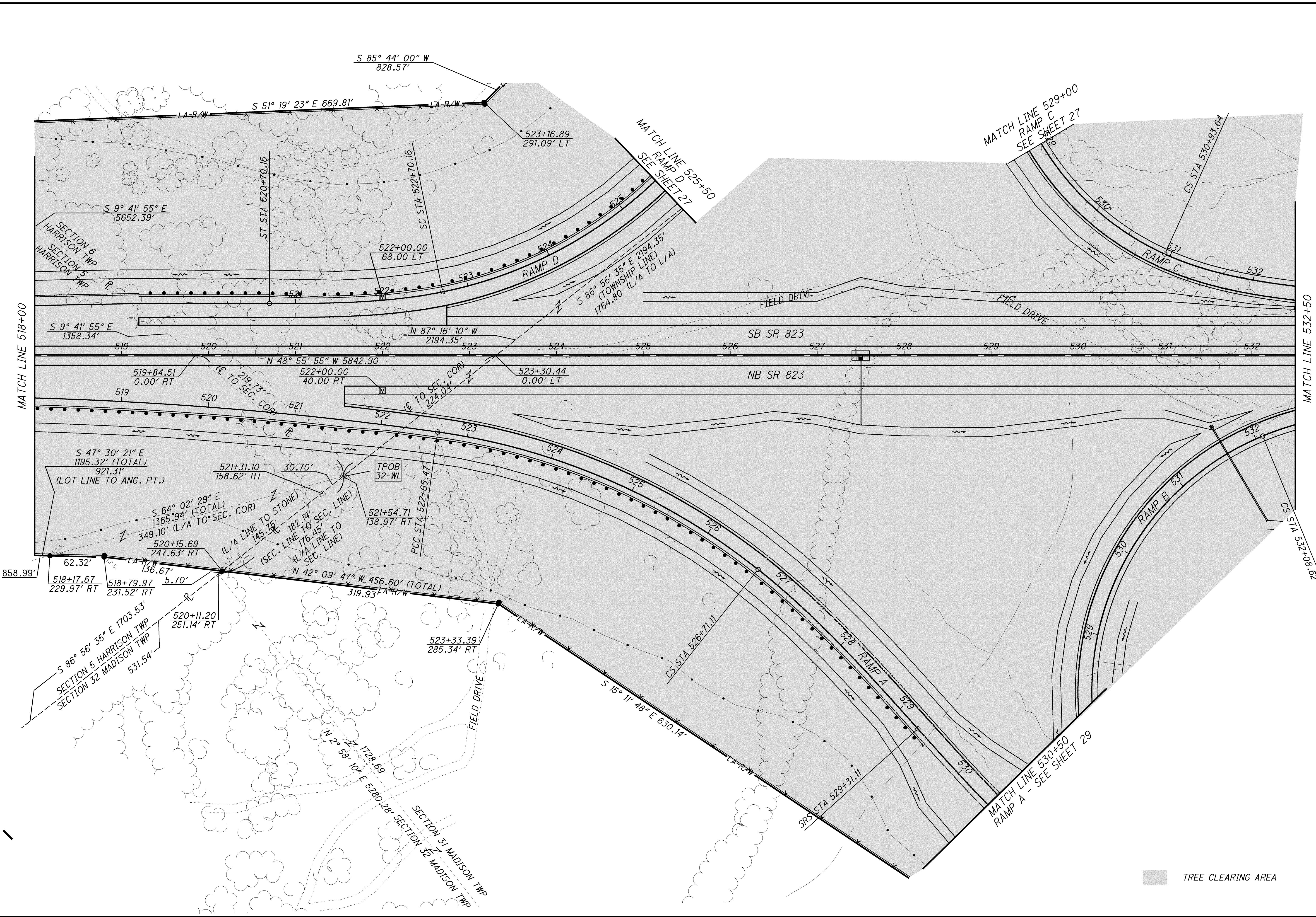
CALCULATED: GKF
 CHECKED: DMB

0 25 50 100
 HORIZONTAL
 SCALE IN FEET

TREE CLEARING PLAN
STA. 503+50 TO STA. 518+00

SCI-823-6.81

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CALCULATED
GKF
CHECKED
DMB

0 25 50 100
HORIZONTAL
SCALE IN FEET

MATCH LINE 518+00

MATCH LINE 525+50

MATCH LINE 529+00

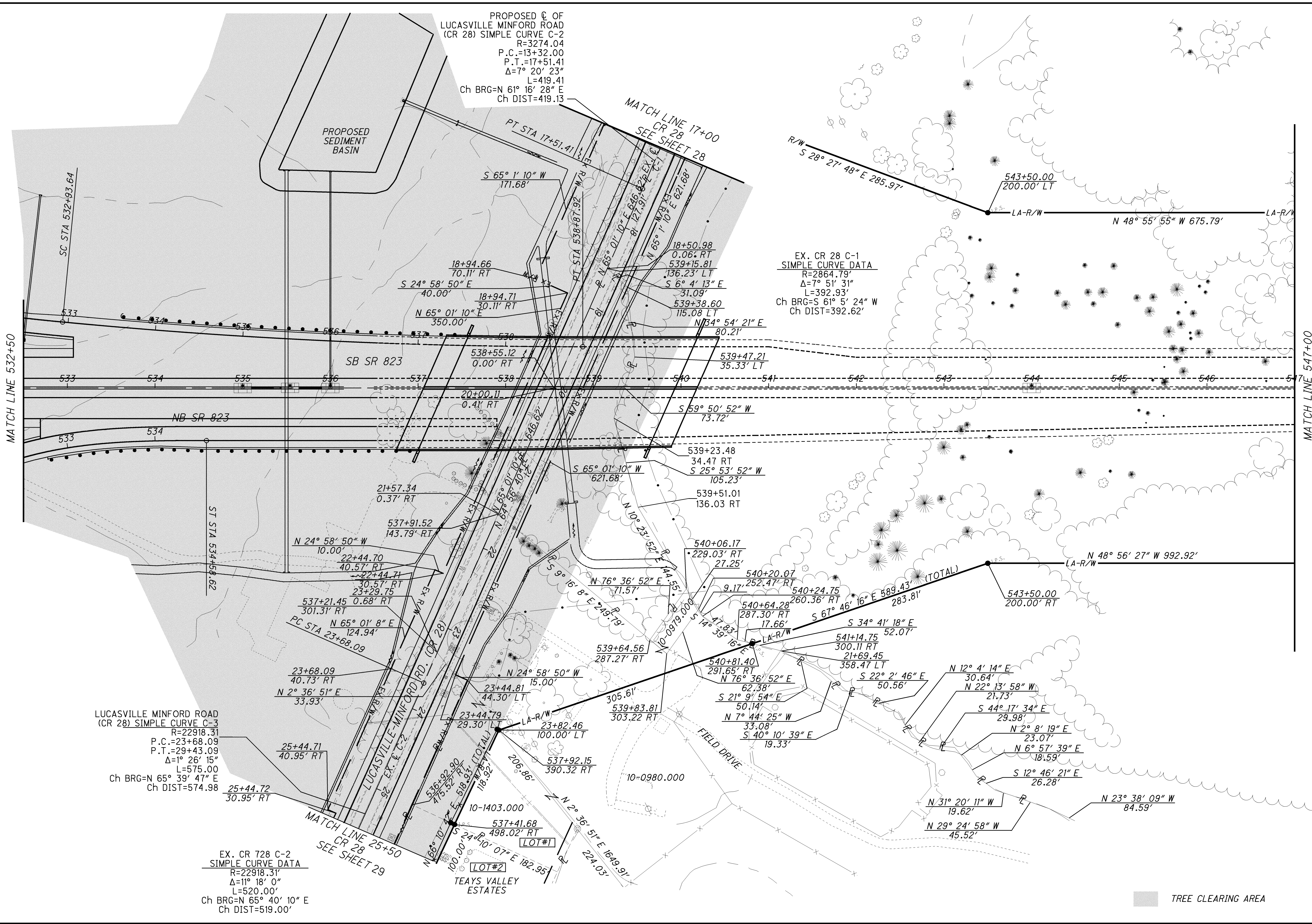
MATCH LINE 532+50

SCI-823-6.81

25
31

■ TREE CLEARING AREA

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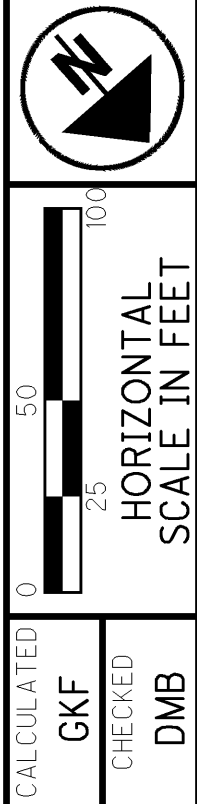


PROPOSED C OF
LUCASVILLE MINFORD ROAD
(CR 28) SIMPLE CURVE C-2
R=3274.04
P.C.=13+32.00
P.T.=17+51.41
 $\Delta=7^{\circ} 20' 23''$
L=419.41
Ch BRG=N 61° 16' 28" E
Ch DIST=419.13

EX. CR 28 C-1
SIMPLE CURVE DATA
R=2864.79'
 $\Delta=7^{\circ} 51' 31''$
L=392.93'
Ch BRG=S 61° 5' 24" W
Ch DIST=392.62'

LUCASVILLE MINFORD ROAD
(CR 28) SIMPLE CURVE C-3
R=22918.31
P.C.=23+68.09
P.T.=29+43.09
 $\Delta=1^{\circ} 26' 15''$
L=575.00
Ch BRG=N 65° 39' 47" E
Ch DIST=574.98

EX. CR 728 C-2
SIMPLE CURVE DATA
R=22918.31'
 $\Delta=11^{\circ} 18' 0''$
L=520.00'
Ch BRG=N 65° 40' 10" E
Ch DIST=519.00'



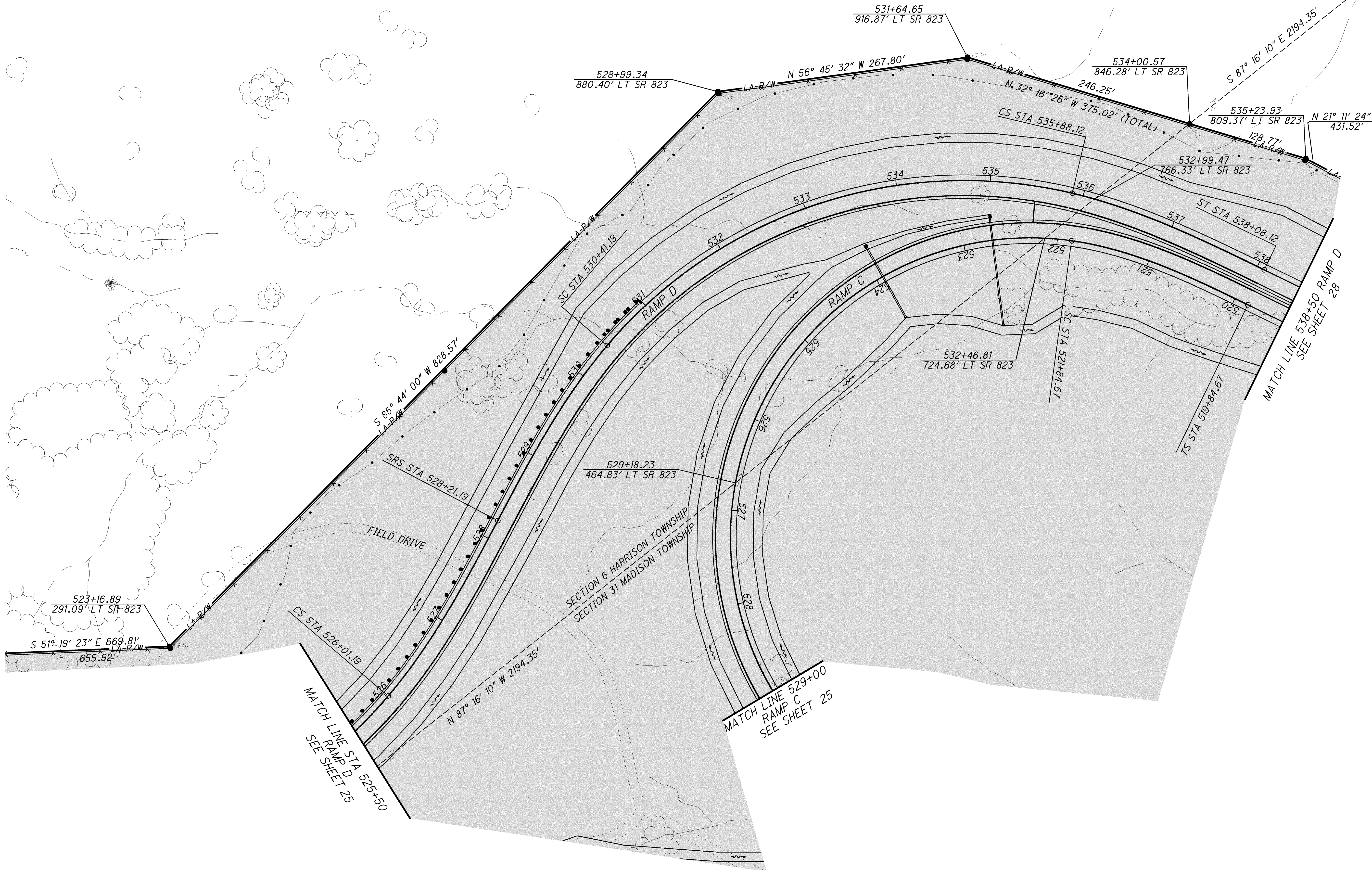
CALCULATED GKf CHECKED DMB

TREE CLEARING PLAN
STA. 535+50 TO STA. 547+00

SCI-823-6.81

TREE CLEARING AREA

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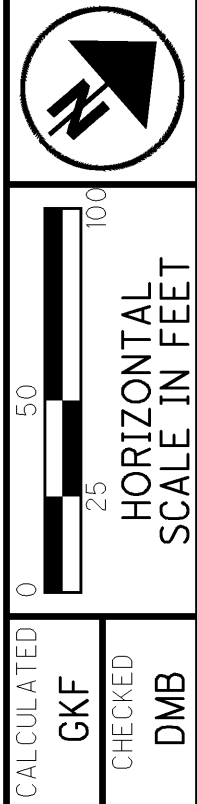
CALCULATED 0
 GKF 25
 CHECKED 100
 DMB
 HORIZONTAL SCALE IN FEET

**TREE CLEARING PLAN
 RAMPS C & D**

SCI-823-6.81

■ TREE CLEARING AREA

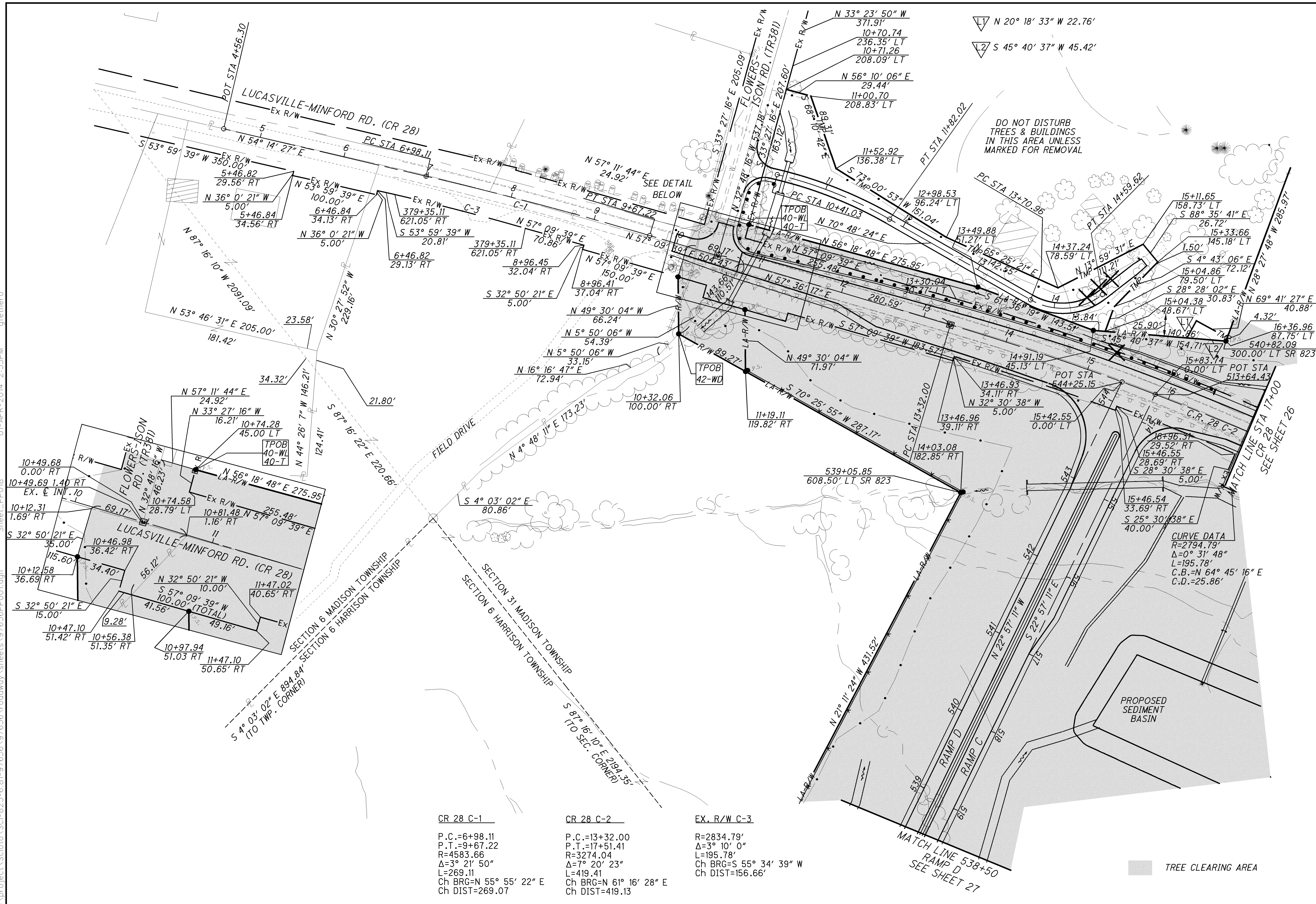
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CALCULATED GKF CHECKED DMB

TREE CLEARING PLAN
C.R.-28 & RAMP D

SCI-823-6.81



N 20° 18' 33" W 22.76'
S 45° 40' 37" W 45.42'

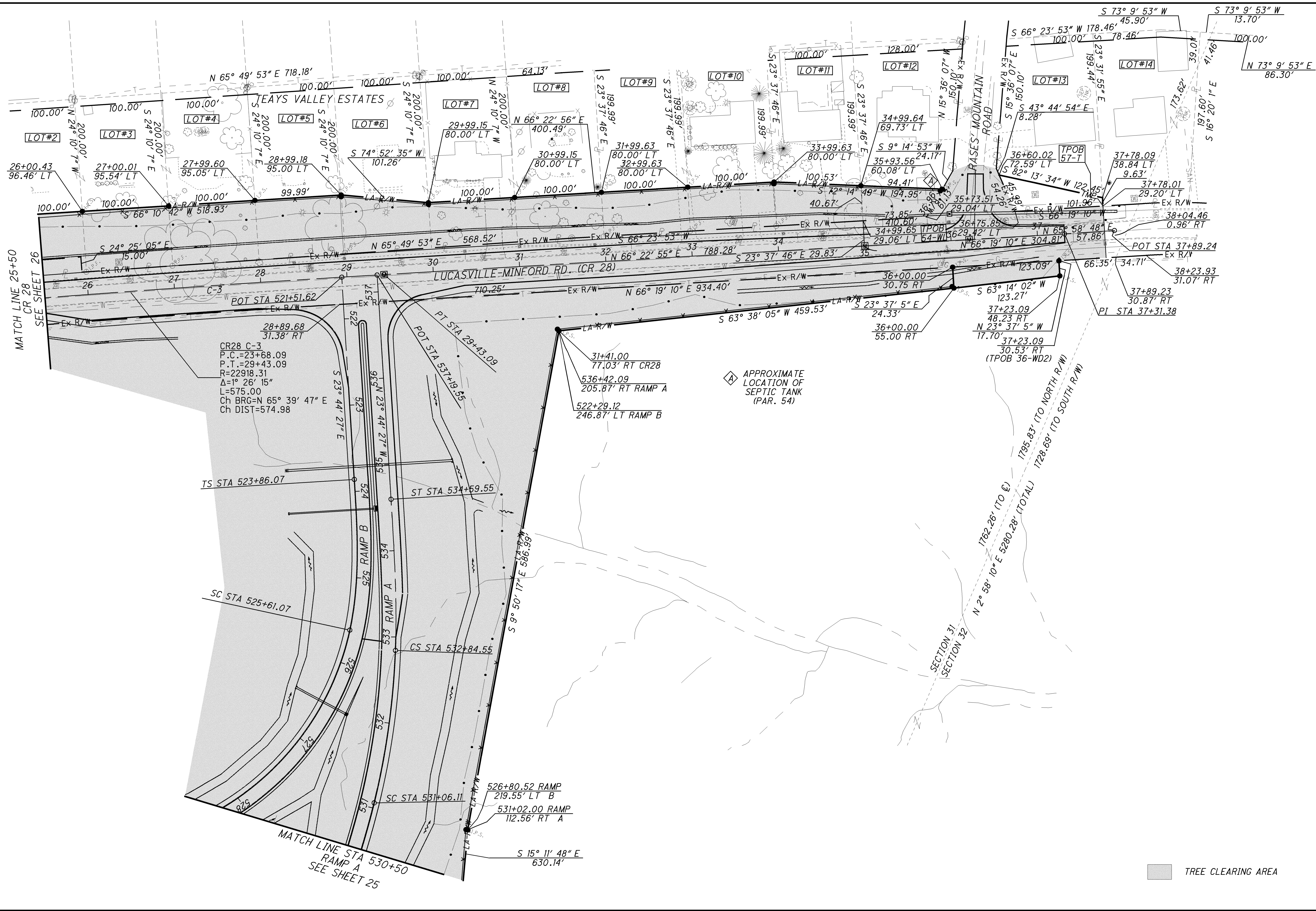
DO NOT DISTURB
TREES & BUILDINGS
IN THIS AREA UNLESS
MARKED FOR REMOVAL

CURVE DATA
R=2794.79'
Δ=0° 31' 48"
L=195.78'
C.B.=N 64° 45' 16" E
C.D.=25.86'

CR 28 C-1	CR 28 C-2	EX. R/W C-3
P.C.=6+98.11	P.C.=13+32.00	R=2834.79'
P.T.=9+67.22	P.T.=17+51.41	Δ=3° 10' 0"
R=4583.66	R=3274.04	L=195.78'
Δ=3° 21' 50"	Δ=7° 20' 23"	Ch BRG=S 55° 34' 39" W
L=269.11	L=419.41	Ch DIST=156.66'
Ch BRG=N 55° 55' 22" E	Ch BRG=N 61° 16' 28" E	
Ch DIST=269.07	Ch DIST=419.13	

MATCH LINE 538+50
RAMP D
SEE SHEET 27

TREE CLEARING AREA



CALCULATED: GKF
 CHECKED: DMB

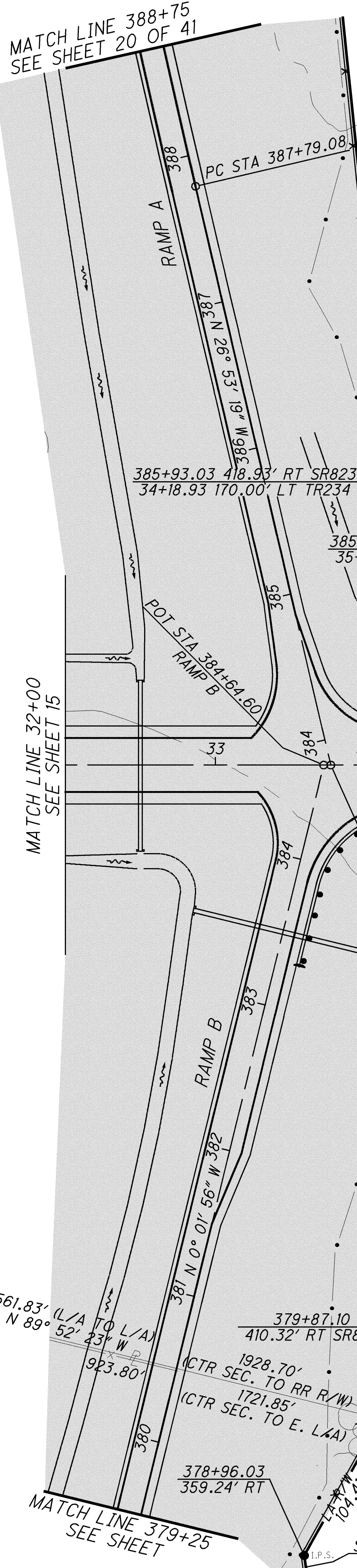
0 25 50 100
 HORIZONTAL SCALE IN FEET

North Arrow

TREE CLEARING PLAN
C.R.-28 & RAMP A

■ TREE CLEARING AREA

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NOTE: THERE APPEARS TO BE AN OVERLAP OF APPROXIMATELY 20' BETWEEN THE EASTERLY R/W LINE OF THE CSX RAILROAD AND THE WESTERLY R/W LINE OF S.R. 335.
 NOTE: FOR A MORE DETAILED LOCATION OF THE EASEMENTS WITHIN THE RAILROAD PROPERTY, SEE THE RAILROAD PLAT ATTACHED HEREIN PAGE 41 OF 41

MATCH LINE 13+00
STATE ROUTE 335
SEE SHEET

MATCH LINE 7+00
STATE ROUTE 335
SEE SHEET

RR R/W CURVE
DATA C-1
R=5569.65'
Δ=2° 0' 50"
L=195.78'
Ch BRG = N 13° 19' 19" W
Ch DIST = 195.77'

RR R/W CURVE
DATA C-2
R=5569.65'
Δ=0° 30' 18"
L=49.08'
Ch BRG = S 14° 04' 09" E
Ch DIST = 49.08'

RR R/W CURVE
DATA C-3
R=5569.64'
Δ=1° 30' 33"
L=146.70'
Ch BRG = N 13° 4' 10" W
Ch DIST = 146.70'

RR R/W CURVE
DATA C-4
R=5629.65'
Δ=1° 33' 9"
L=152.54'
Ch BRG = N 11° 23' 13" W
Ch DIST = 152.54'

SIMPLE CURVE DATA
R=2291.83'
P.C.=6+37.50
P.T.=8+14.51
Δ=4° 25' 32"
L=177.02'
Ch BRG=N 11° 33' 01" W
Ch DIST=176.97'

* LEACH FIELD
TO BE REMOVED
BY OTHERS

- (S1) 38+89.55 29.82' RT TR234
- (S2) 39+30.00 30.05' LT TR234
- (S3) 10+29.72 85.85' RT SR335
- (S4) 38+89.52 30.18' LT TR234
- (S5) 10+30.16 45.00' RT SR335
- (S6) 38+89.47 100.70' LT TR234
- (S7) 11+00.67 44.99' RT SR335
- (S8) 38+89.56 49.82' LT TR234
- (S9) 9+50.15 45.00' RT SR335
- (S10) 12+19.70 14.30' RT SR335
- (S11) 39+70.43 29.87' RT TR234
- (S12) 39+81.66 99.43' RT TR234
- (S13) 40+07.17 99.47' RT TR234
- (S14) 40+01.28 135.62' RT TR234
- (S15) 41+46.45 39.50' RT TR234
- (S16) 44+57.64 66.01' RT TR234
- (S17) 40+14.95 56.58' RT TR234
- (S18) 39+65.97 130.00' RT TR234
- (S19) 39+59.12 173.12' RT TR234
- (S20) 38+89.62 162.18' RT TR234
- (S21) 8+37.80 45.00' RT SR335
- (S22) 9+00.88 45.00' RT SR335
- (S23) 39+70.00 50.00' RT TR234

- (L1) N 13° 45' 47" W 155.64'
- (L2) N 13° 45' 47" W 69.27'
- (L3) N 13° 45' 47" W 20.00'
- (L4) N 13° 45' 47" W 49.27'
- (L5) S 76° 56' 39" W 79.83'
- (L6) S 77° 03' 00" W 31.76'
- (L7) N 13° 45' 47" W 86.37'
- (L8) S 13° 32' 00" W 600.01'
- (L9) S 76° 51' 00" W 40.85'
- (L10) S 76° 51' 00" W 31.38'
- (L11) N 13° 35' 46" W 70.84'
- (L12) N 13° 57' 15" W 3010.46' (EXIST RR R/W)
- (L13) N 76° 51' 00" E 31.56'
- (L14) S 13° 35' 46" E 69.16'
- (L15) N 13° 57' 15" W 110.99' (EXIST RR R/W)
- (L16) N 13° 46' 29" W 235.30' (P TO ANGLE PT)
- (L17) N 13° 32' 00" W 118.51' (EX RW TO P)
- (L18) S 75° 53' 55" W 30.00' (Q TO EX RW)
- (L19) S 75° 53' 55" W 30.66' (PROP RW TO EX RW)
- (L20) S 77° 10' 17" W 30.00' (Q TO EX RW)
- (L21) N 62° 27' 27" E 80.99'
- (L22) S 8° 42' 04" E 43.02'
- (L23) N 22° 12' 07" W 70.46'
- (L24) S 3° 46' 53" E 36.63'
- (L25) S 86° 00' 20" W 35.75'
- (L26) S 3° 59' 40" E 43.66'
- (L27) S 86° 00' 20" W 68.36'

EXEMPT/AIRPORT
(55)
BOARD OF COUNTY COMMISSIONERS
OF SCIOTO COUNTY
STATE ROUTE 335
DEED VOLUME 440 PG. 435
PARCEL NO. 07-2477.000
24.059 ACRES (BLDG LEASE PORTION)

TREE CLEARING AREA
CLEARING OF TREES TO BE COMPLETED WITHIN 14 CALENDAR DAYS, SUBJECT TO LIQUIDATED DAMAGES SEE R&R AGREEMENT AND NOTE ON SHEET 7.

N

HORIZONTAL SCALE IN FEET

CALCULATED GKF CHECKED DMB

TREE CLEARING PLAN
T.R.- 234 & RAMP A & B

SCI-823-6.81

31
31

SPECIAL PROVISIONS

WATERWAY PERMITS CONDITIONS

C-R-S: SCI-823-6.81 – Tree Removal

PID: 97636

Date: 3/25/2014

Special Provisions: SCI-823-6.81, PID 97636 Tree Removal

1. Waterway Permit Time Restrictions:

Complete all work in streams, wetlands, and ponds associated with tree clearing activities in accordance with this Special Provisions by May 18, 2017 in accordance with the 401 Water Quality Certification (WQC).

For work on streams, wetlands, and ponds, the Department will consider the Contractor's submission of an extension to the waterway permit expiration date based on project constraints. In order to be considered, the Contractor must submit a justification to the Department's Project Manager at least eight (8) months prior to the expiration date of the first permit that expires which is the 401 WQC.

The Department's Project Manager will submit the request for a time extension to ODOT - Office of Environmental Services- Waterway Permits Unit at (614)466-7100, for consideration and coordination with the USACE and/or Ohio EPA.

2. Deviations from Permitted Construction Activities

No deviation from the requirements for work in streams, wetlands, and ponds depicted in this Special Provisions may be made unless a modification has been submitted to ODOT and approved by the appropriate agencies (e.g., USACE, Ohio EPA, USCG, ODNR, and USFWS).

For emergency situations resulting in unanticipated impacts to streams, wetlands, and ponds provide notification (verbal or written) to the Department's Project Manager as soon as possible following discovery of the situation. Written notification to the Department's Project Manager and notification to the ODOT- Office of Environmental Services- Waterway Permits Unit must be made within 24 hours.

For non-emergency situations, notify the Department's Project Manager in writing for submission to the ODOT- Office of Environmental Services- Waterway Permits Unit, at (614)466-7100, for consideration and coordination with the appropriate agencies. Notification must be made at least two months prior to planned non-permitted activities. Consideration of the requested deviation is at the discretion of the Director and must be coordinated with the appropriate regulatory agencies.

3. In-Stream Work Restrictions

Work in the following sensitive streams is further restricted as follows:

Stream Name /Description	Location	Work restriction dates (No in-stream work permitted)
Stream 17-1-1	STA 519+50	None
Stream 17 a/b	STA 539+00	None
Stream 17 c	CR 28 Ramp C-D	None
Stream 17c-1	CR 29 Ramp C-D	None
Stream 17 d	CR 28 STA 10+75	None
Stream 18 (Long Run)	STA 484+50	April 15 to June 30
Stream 18-1	STA 473+50	None
Stream 18b	STA 465+25	None
Stream 19	STA 485+50 to 490+50	None
Stream 19-1	STA 504+53	None
Stream 20	STA 443+50	None
Stream 20-1	STA 434+00	None

Stream 20-2	STA 449+25	None
Stream 21	STA 404+00	None
Stream 21a	STA 410+50	None
Stream 22a/b	STA 375+00	None
Stream 22a-1	TR 234 R C STA 381+70	None
Stream 23K	STA 364+50	None
Stream 24-1	STA 353+88	None

In-stream work has been defined as the placement and/or removal of fill materials (temporary or permanent) below ordinary high water of a stream. Examples of "fill" include (but are not limited to) bridge piers, abutments, culverts, rock channel protection, vegetation debris, scour protection, and temporary work pads/crossings.

Fills (such as temporary work pads) placed within a stream identified in the above table outside of the work restriction dates can continue to be worked from during the work restriction dates, but cannot be expanded, removed, or otherwise modified (below ordinary high water) until once again outside of the work restriction dates.

4. Materials:

Materials utilized in or adjacent to streams, wetlands, and ponds on this Project for permanent fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Broken asphalt is specifically excluded.

Cadmium, chromium, arsenate (CCA), creosote, and other pressure treated lumber shall not be used in structures that are placed in wetlands and streams.

5. Cultural Resources:

If archeological sites or human remains are discovered, cease all work in the immediate area and notify the Engineer who will immediately contact the Office of Environmental Services-Cultural Resource Section (614-466-7100) and the Ohio Historic Preservation Office.

In the event of human remains are discovered the Engineer shall also contact the Scioto County Sheriff's Office at (740) 354-7566.

6. Water Resource Demarcation:

All streams, wetlands, and ponds indicated on the plans that are not authorized for impact shall be demarcated in the field as per SS 832 prior to site disturbance. The demarcation shall remain in place and be maintained throughout the tree clearing process.

The following wetlands are authorized for impact in their entirety: Wetland 1 (0.141 acre), Wetland 2/3 (0.517 acre), Wetland 4 (0.089 acre), Wetland W8WL8 (0.02 acre), Wetland 6 (0.018 acre), Wetland 7 (0.108 acre), Wetland 8 (0.028 acre), Wetland 13 (0.233 acre), Wetland 14 (0.01 acre), Wetland 15 (0.014 acre), Wetland 19 (0.180 acre), Wetland W9WL4 (0.029 acre), Wetland 22 (0.344 acre), Wetland 24 (0.069 acre), Wetland 26 (0.483 acre), Wetland 28 (0.101 acre), Wetland 30 (0.011 acre), Wetland 31 (0.027 acre), Wetland 33 (0.021 acre), Wetland 34 (0.013 acre). **See attached Figures 3 – 70 and**

Table C-C.

Only portions of the following wetlands are authorized for impact, and the remaining area is to be demarcated and not disturbed: Wetland W8WL6 (0.221 acre of 0.290 acre), Wetland 5/W8WL7 (0.066 acre of 0.104 acre), Wetland 9 (0.073 acre of 0.081 acre), Wetland 12 (0.811 acre of 1.233 acres), Wetland 16 (0.036 acre of 0.048 acre), Wetland 17 (0.001 acre of 0.094 acre), Wetland 18/W9WL2 (0.038 acre of 0.054 acre), Wetland 20 (0.062 acre of 0.089 acre), Wetland 21 (0.082 acre of 0.085 acre), Wetland 29 (0.001 acre of 0.029 acre), Wetland 32 (0.019 acre of 0.049 acre), Wetland 35 (no impacts authorized, total size=0.092 acre). **See attached Figures 3 – 70 and Table C-C.**

For authorized stream and pond impacts, **see attached Table C-A and Table C-B.**

7. Spill containment:

Provide and maintain an oil spill kit with a minimum capacity of 65 gallons. The oil spill kit shall contain:

- 6 - 3 in. X 8 ft. Oil only socks
- 4 - 18 in. X18 in. Oil only pillows
- 2 - 5 in. X 10ft. Booms
- 50 - 16in. X 20 in. Oil only pads
- 10 - Disposable bags
- 1 - 65 Gallon drum with lid
- 25 pounds of granular oil absorbent

The oil spill kit shall be located within 150 feet of any equipment working in a stream, wetland, and ponds. The oil spill kit shall be maintained for the life of the contract. Any materials utilized during the project will be replaced within 48 hours.

8. Waterway Permits:

The Individual 404 permit (USACE #: 2011-00646-OHR) and Individual 401 Water Quality Certification (Ohio EPA #: 113859) have been authorized for Phase 1 of SCI-823-0.00 PID 19145. These authorizations include 31 wetlands (totaling 3.893 acres), 19 streams (totaling 9,525 linear feet) and five (5) ponds (totaling 2.7 acres). A copy of the 404 and 401 permits shall be kept at the work Site at all times and made available to all members of the Developer team, including Contractors and subcontractors.

The 404 permit is effective starting: 11-20-2012 and expires: 12-31-2022.

The 401 Water Quality Certification is effective starting: 5-18-2012 and expires: 5-18-2017.

The 404 permit is only valid with a valid 401 WQC. The Department's Project Manager must submit a request to extend the 401 WQC a minimum of eight (8) months prior to the expiration of the 401 WQC.

9. Project Inspection:

Inspection of Work may include inspection by representatives of other government agencies or railroad corporations that pay a portion of the cost of the Work or regulate the Work through State and Federal law. Comments from the representatives of these agencies shall be directed to the Engineer. Please forward a copy to ODOT Office of Environmental Services. Waterway Permits Unit (614-466-7100).

10. Temporary Access Fills (Stream and River Crossings and Fills):**Definitions:****Hydraulic Opening**

The cross sectional area allowing an unimpeded discharge equal to twice the highest monthly flow without producing a rise in the backwater above the Ordinary High Water Mark (OHWM)*.

Standard Temporary Discharge

The hydraulic opening is to provide for a discharge equal to twice the *highest monthly flow* without producing a rise in the backwater above the OHWM shall be known as the Standard Temporary Discharge. The U.S. Geologic Service publication "Techniques for estimating Selected Streamflow Characteristics of Rural Unregulated Streams in Ohio" provides equations that estimate monthly flow for Ohio Waterways. These flows are also available in a web application by USGS StreamStats, (<http://water.usgs.gov/osw/streamstats/ohio.html>).

Average Monthly Flow

The average monthly flow represents the estimated "normal" flow.

Temporary Access Fills (TAFs)

In Streams and Rivers may include, but are not limited to, causeways, cofferdams (as described by other items of work), access pads, temporary bridges, etc. The Contractor will make every attempt minimize disturbance to water bodies, stream banks, stream beds, and approach sections during the construction, maintenance, and removal of the TAFs. Forging of streams and rivers is prohibited. Construct TAFs in such a manner that will maintain flows, minimize upstream flooding, and avoid overtopping the TAFs on a regular basis. *TAFs shall be designed and constructed so that the hydraulic opening provides capacity for a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the Ordinary High Water Mark (OHWM)*.*

Do not exceed an overall length of temporary impacts reported in Table C-A.

Requirements:

21 calendar days prior to the initiation of any in-stream work, provide the Engineer with working drawings that include:

- Plan view drawing (200 scale or less) showing the location of all jurisdictional temporary fill proposed for use on the project
- Scaled Cross section and profile drawing showing the OHWM and the proposed compliant hydraulic opening.
- A description of the installation and staging of all temporary jurisdictional fill over the life of the contract.
- A description of the removal of all jurisdictional temporary fill and restoration of the channel and all areas impacted by the jurisdictional temporary fill.
- A schedule outlining the timing of the placement and removal of all TAFs.
- Have an Ohio Registered Engineer prepare, sign, seal and date the working drawings. Have a second Ohio Registered Engineer check, sign, seal and date the working drawings. The preparer and checker are two different Engineers. Include the following statement on the working drawings:
"These working drawings were prepared in compliance with the terms of the 404 and 401 Permits and all contract documents."
- Include supporting hydraulic calculations developed by the engineer(s) who sealed the working drawings.

- Do not begin in-stream work until the Engineer has accepted the working drawings.

If the OHWM is not shown on the plans, the Department will establish the OHWM based on the definition of OHWM (as defined in SS 832) or the peak discharge from the 2 year event, using the method described in the most current version of the Department's Location and Design Manual Volume II.

If the Contractor proposes a TAFs which does not provide for the Standard Temporary Discharge (discharge equal to twice the highest monthly flow without producing a rise in the backwater), the Contractor is required to coordinate the request for the contractor's proposed TAFs with the Engineer and the ODOT Office of Environmental Services (OES). The Department makes no guarantee to grant the request. The contractor's proposed TAFs request will be coordinated by OES with the U.S. Army Corps of Engineers and the Ohio Environmental Protection Agency, as appropriate.

In addition to the requirements described in SS 832, supply the Engineer/OES with the following:

1. A plan and Profile showing the temporary access fill(s) with the OHWM.
2. Cross section showing the hydraulic opening and the anticipated discharge flow.
3. A restoration plan for the area affected by the temporary access fill(s).
4. A schedule outlining the timing of the placement and removal of the temporary access fill(s)

The time frame allowed for the coordination of the contractor's proposed TAF will be a minimum of 60 days. Installation of any jurisdictional fill without a 404 Permit authorized by the USACE is strictly prohibited. All direct coordination with the USACE and/or OEPA will be performed through OES.

Temporary Access Fills Construction and Payment:

Begin planning and installing causeways and access fills as early in construction as possible to avoid conflicts with 404/401 permits or other environmental commitments that have been included in the construction plans.

Temporary Access Fills (TAFs) in Streams and Rivers may include, but are not limited to, causeways, cofferdams, access pads, temporary bridges, etc. Make every attempt minimize disturbance to water bodies, stream banks, stream beds, and approach sections during the construction, maintenance, and removal of the TAFs. Make every attempt to minimize disturbance to water bodies during construction, maintenance and removal of the causeway and access fills. Construct the causeway and access fills as narrow as practical. Install in-stream conduits parallel to the stream banks. Make the causeway and access fills in shallow areas rather than deep pools where possible. Minimize clearing, grubbing, and excavation of stream banks, bed, and approach sections. Construct the causeway and access fills as to not erode stream banks or allow sediment deposits in the channel.

Prior to the initiation of any in-stream work, establish a monument upstream of proposed temporary crossing or temporary construction access fill to visually monitor the water elevation in the waterway where the fill is permitted. Maintain the monument throughout the project. Provide a visual mark on the monument that identifies the elevation 1 foot above the OHWM. If the OHWM is not shown on the plans, the Department will establish the OHWM based on the definition of OHWM (SS 832.02) or the peak discharge from the 2 year event, using the method described in the most current version of the Department's Location and Design Manual Volume II.

Ensure that the monument can be read from the bank of the waterway. Have this elevation set and certified by an Ohio Registered Surveyor.

Temporary access fills placed by the contractor above the OHWM are not subject to the 404/401 permit constraints. All costs associated with furnishing and maintaining the above referenced monument is incidental to the work.

Should the water elevation of the waterway, exceed the elevation 1 foot above OHWM, the Department

will compensate the Contractor for repair of any resulting damage to the permitted temporary access fill up to the elevation of 1 foot above the OHWM, except as noted. Follow the requirements in Item 502 for Structures for Maintaining Traffic and in Item 503 for Cofferdams and any modifications to these items as shown in the plans. The Department will not pay for repair and maintenance of temporary access structures that are related to the construction access fill.

Should the water elevation of the waterway exceed the elevation shown on the monument, the Department will recognize this event as an excusable, non-compensable delay in accordance with Section 108.06 of the Construction & Materials Specifications.

Construct the causeway and fills, not including cofferdams and temporary bridges, to a water elevation at least 1 foot (0.3 m) above the OHWM. If more than one-third the width of the stream is filled, then use culvert pipes to allow the movement of aquatic life. Ensure that any ponding of water behind the causeway and access fills will not damage property or threaten human health and safety.

The following minimum requirements apply to TAFs where culverts are used.

- A. Furnish culverts on the existing stream bottom.
- B. Avoid a drop in water elevation at the downstream end of the culvert.
- C. Furnish a sufficient number of culverts in addition to stream openings to providing a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the OHWM.
- D. Furnish culverts with a minimum diameter of 18 inches (0.5 m)...

For all fill and surface material placed in the channel, around the culverts, or on the surface of the causeway and access fills furnish clean, non-erodible, nontoxic dumped rock fill, Type B, C, or D, as specified in C&MS 703.19.B. Extend rock fill up the slope from original stream bank for 50 feet (10 m) to catch and remove erodible material from equipment.

When the work requiring the TAFs is complete all portions of the TAFs (including all rock and culverts) will be removed in its entirety. The material will not be disposed in other waters of the US or isolated wetland. The stream bottom affected by the causeway and access fills will be restored to its pre-construction elevations. The TAFs will not be paid as a separate item but will be included by the Contractor as part of the total project cost.

Unless specific Temporary Access Fills compensation is included in the plans, all environmental protection and control associated with the 404/401 permit activities, including but not limited to Temporary Access Fills, are incidental to the work within the boundaries of the 404/401 permit or as otherwise identified in the 404/401 permit application.

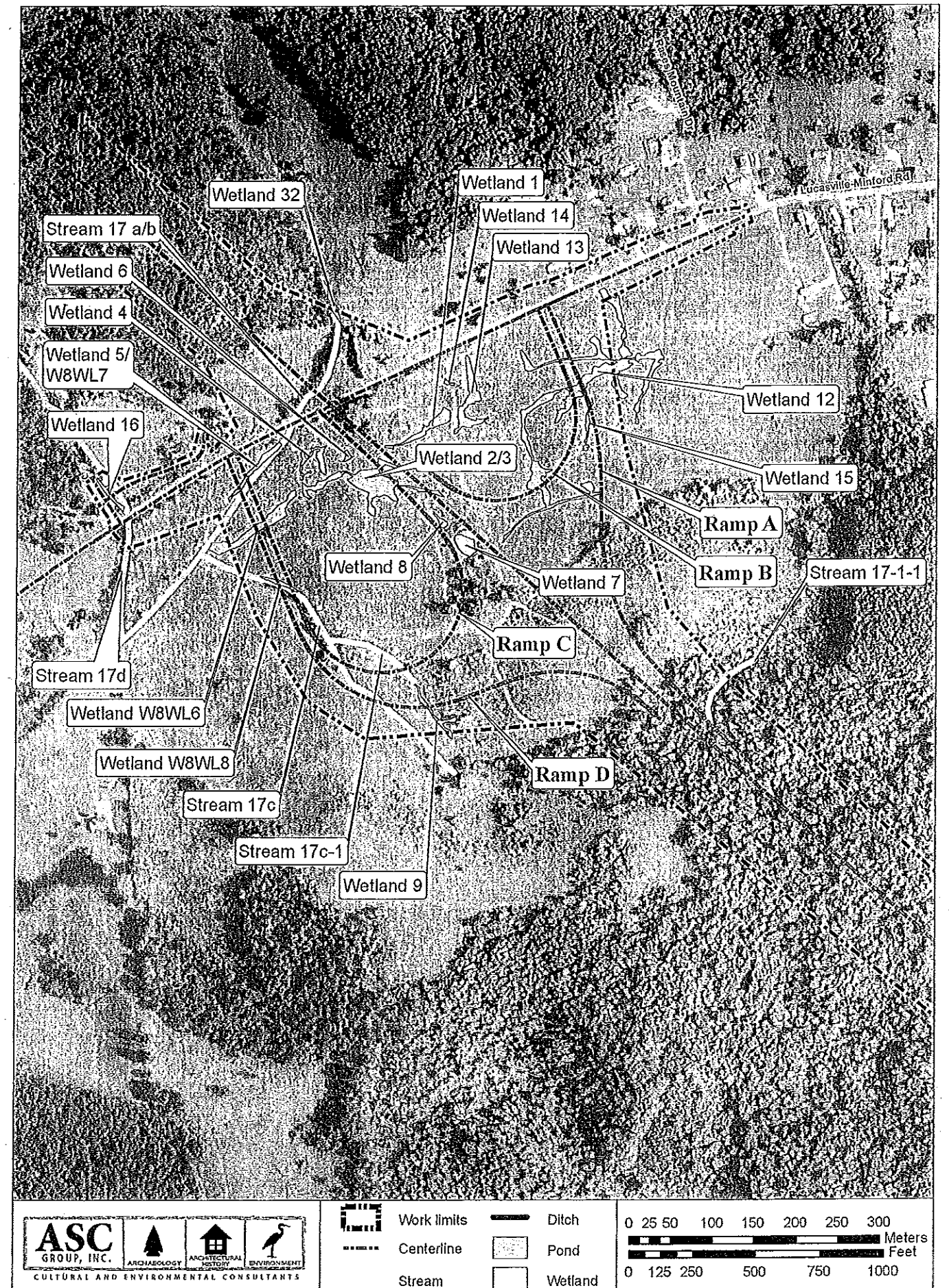


Figure 2. Survey results.
 2011-00646-OHR, SCI-823-0.00, PID: 19415
 Plan Sheet 3 of 70 (Phase 1 Portsmouth Bypass)

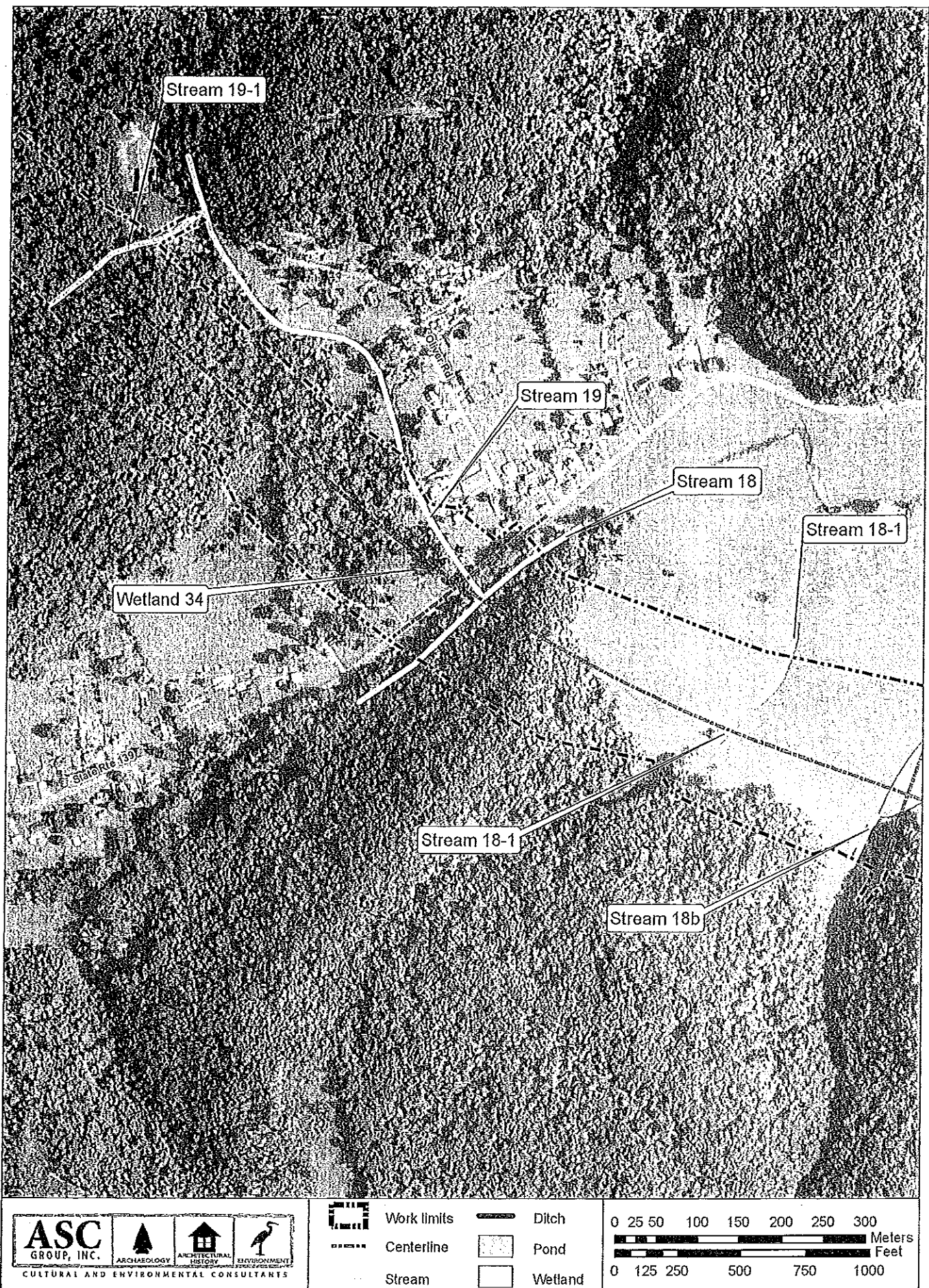


Figure 2. Survey results.
 2011-00646-OHR, SCI-823-0.00, PID: 19415
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Figure 2, Sheet 2 of 6

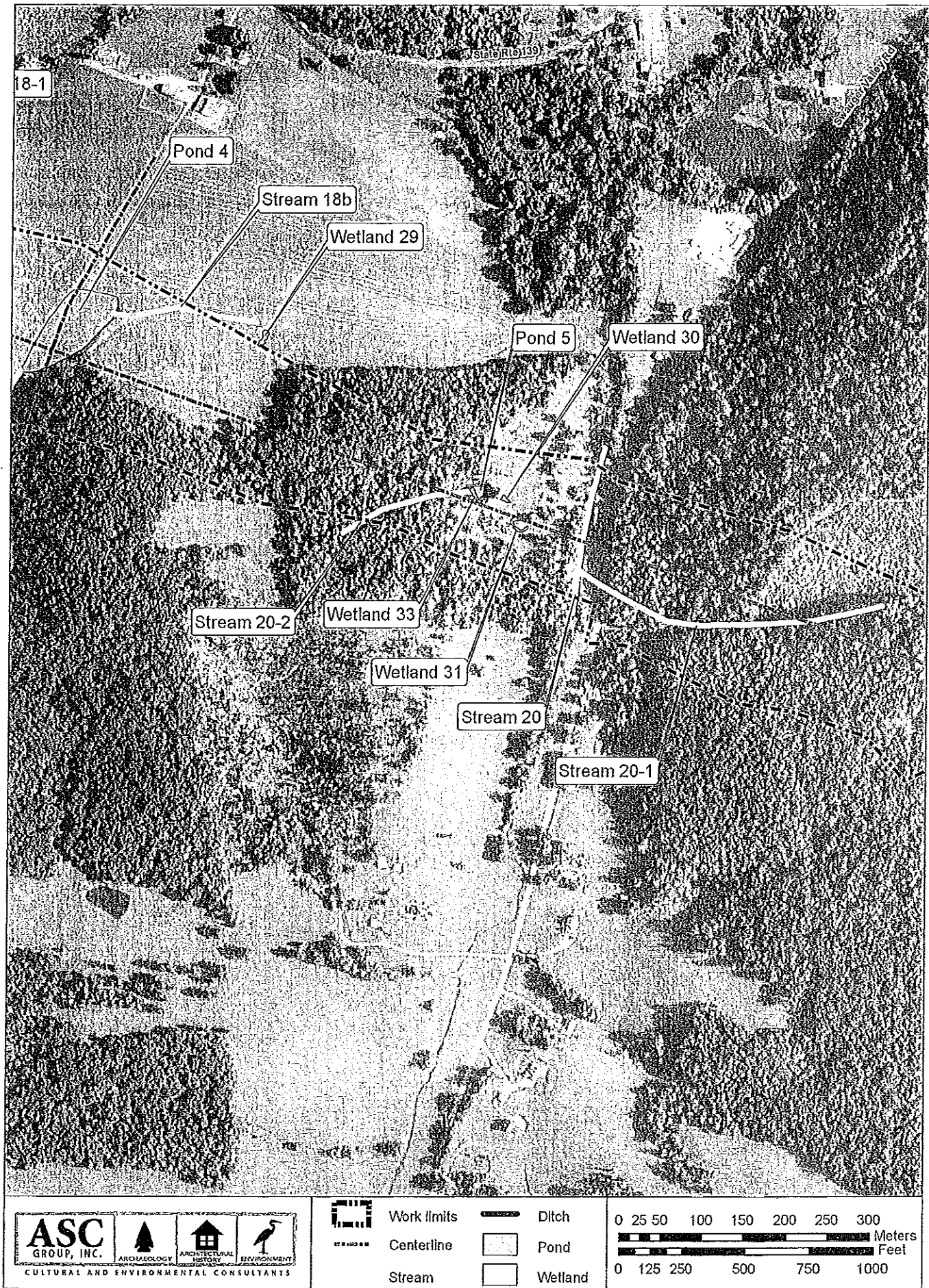


Figure 2. Survey results.
 2011-00646-OHR, SCI-823-0.00, PID: 19415
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Figure 2, Sheet 3 of 6

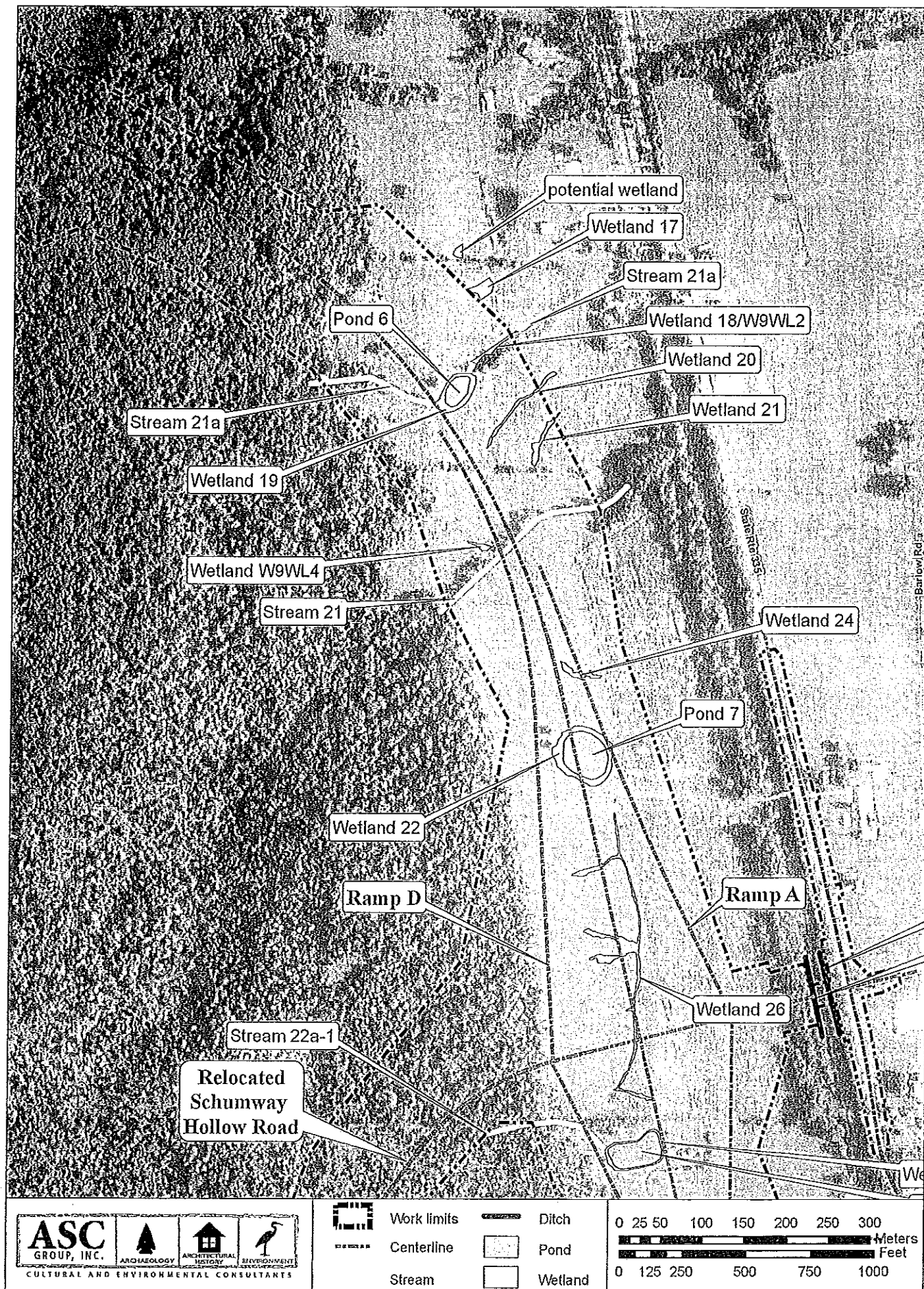


Figure 2. Survey results.
 2011-00646-OHR, SCI-823-0.00, PID: 19415
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Figure 2, Sheet 4 of 6

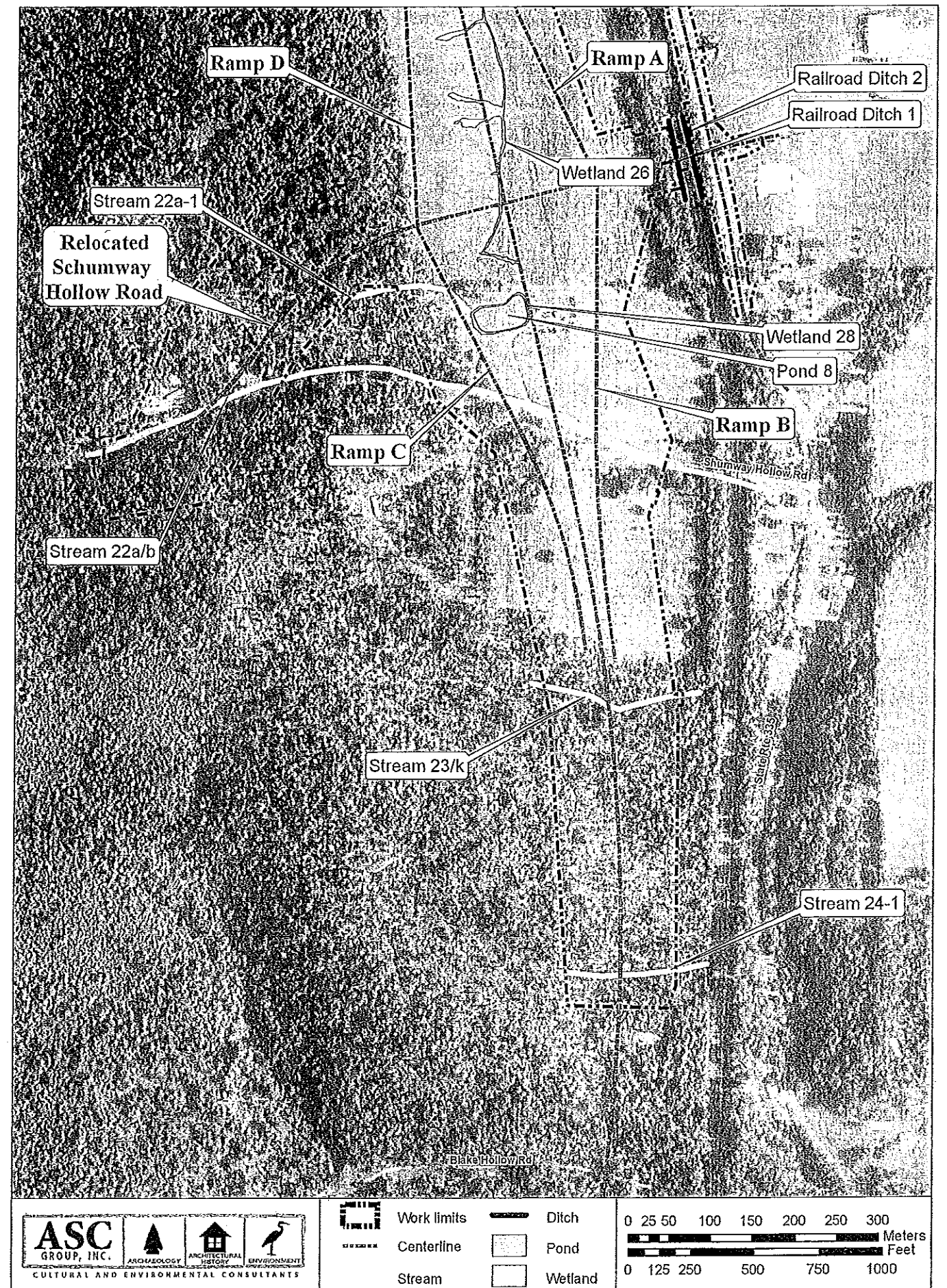
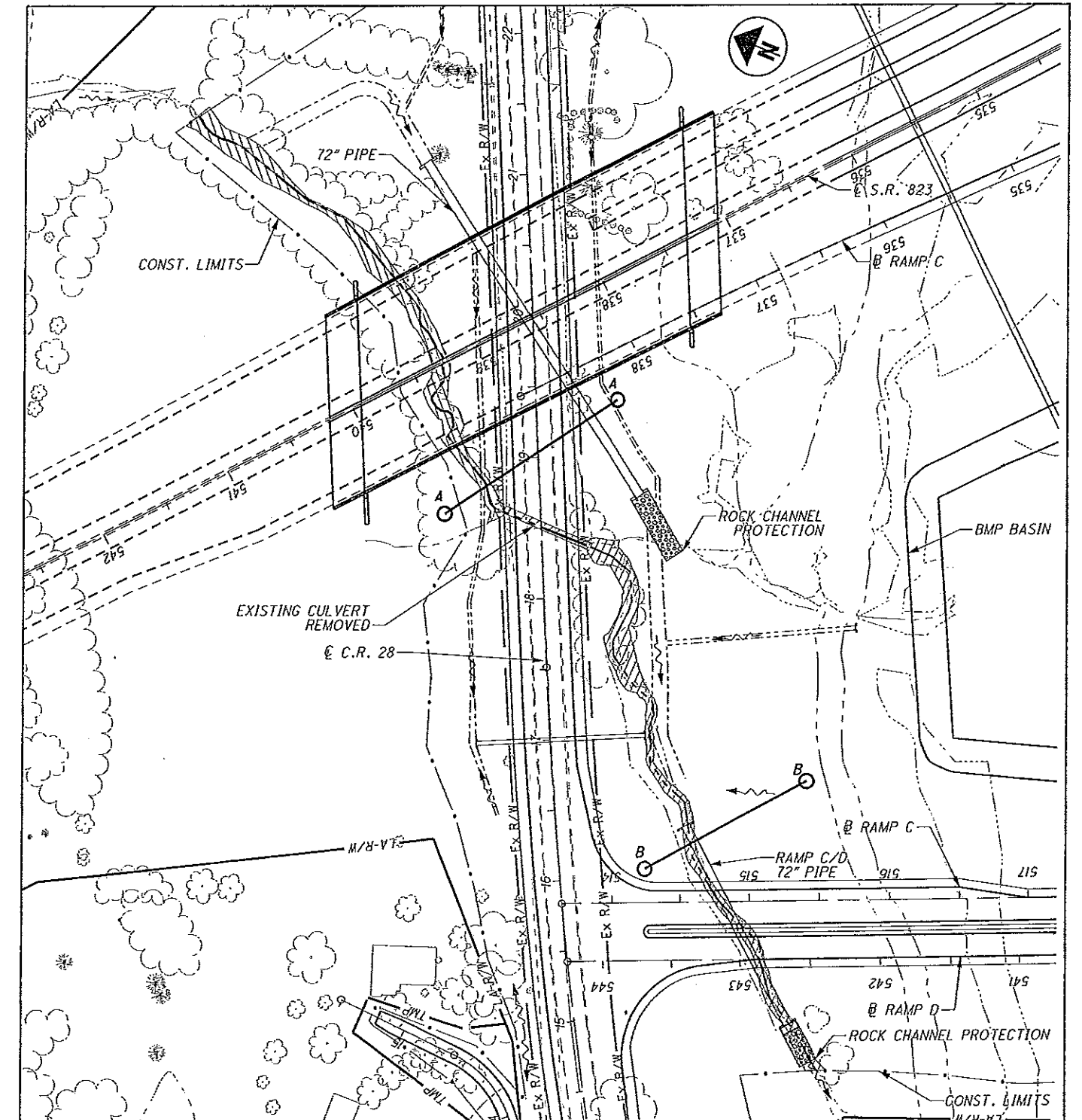
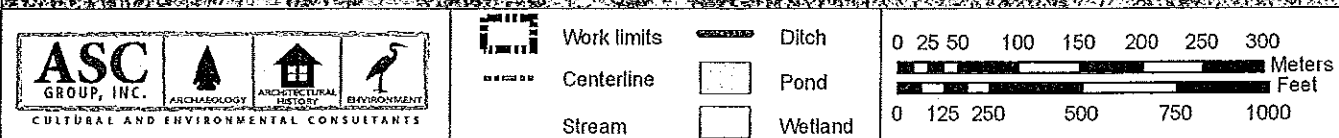


Figure 2. Survey results.
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Figure 2, Sheet 5 of 6



LENGTH OF IMPACT:	831 LF
AREA EXCAVATED OR FILLED:	0.188 ACRES
EXCAVATION BELOW OHW:	64 CY
FILL BELOW OHW:	220 CY
EXISTING CULVERT	
LENGTH OF IMPACT:	67 LF
AREA FILLED:	0.008 ACRES
FILL BELOW OHW:	8 CY

PROPERTY OWNERS:
STATE OF OHIO

--- (dashed line)	PROPOSED DITCH
--- (long dashed line)	STREAM IMPACT LENGTH
--- (short dashed line)	OHWM
/// (hatched area)	
PLAN SCALE: 1" = 100'	
CULVERT PROFILE: 1" = 100'	
CROSS SECTION: 1" = 20'	



IMPACTS AT STREAM 17A/B

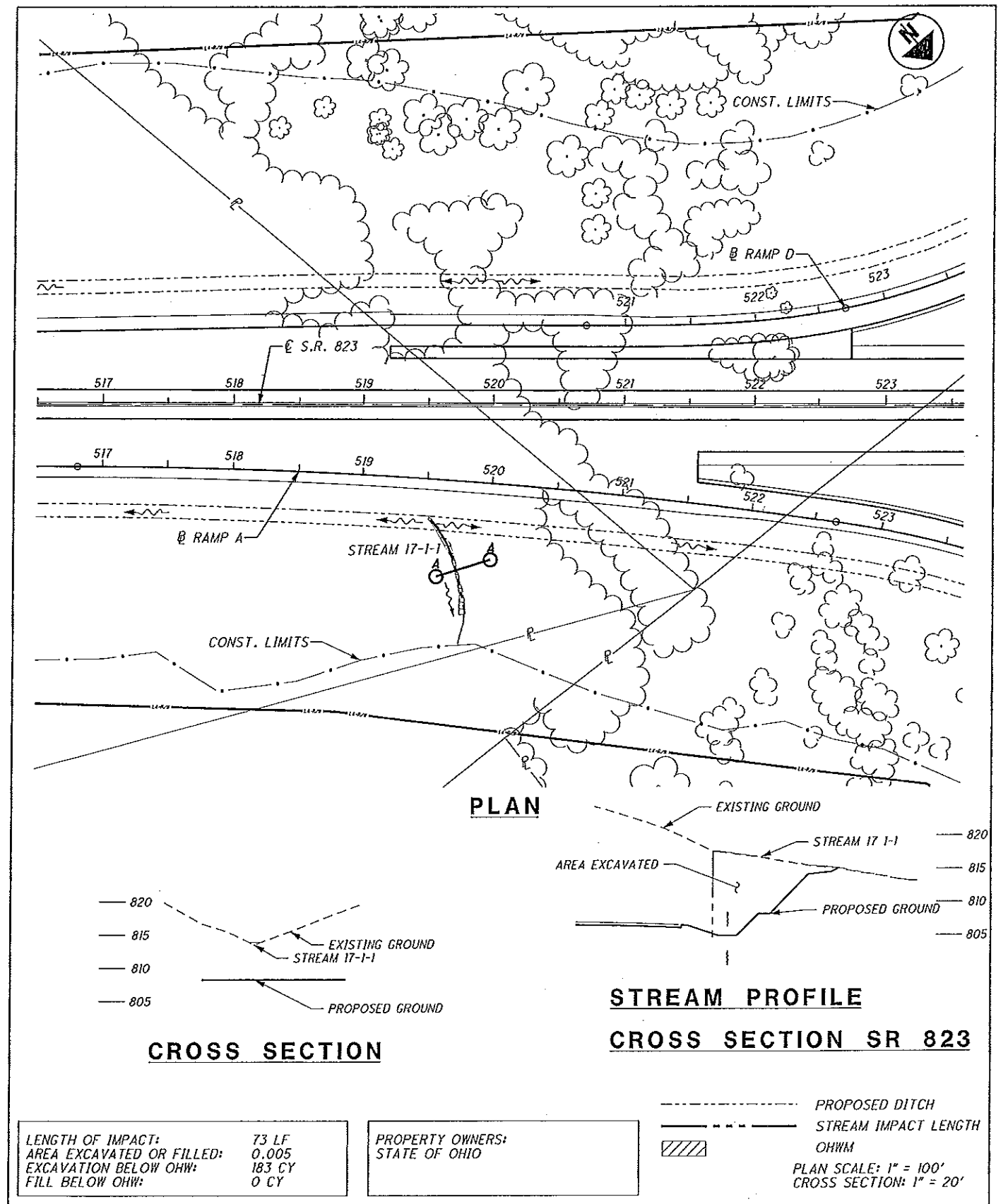
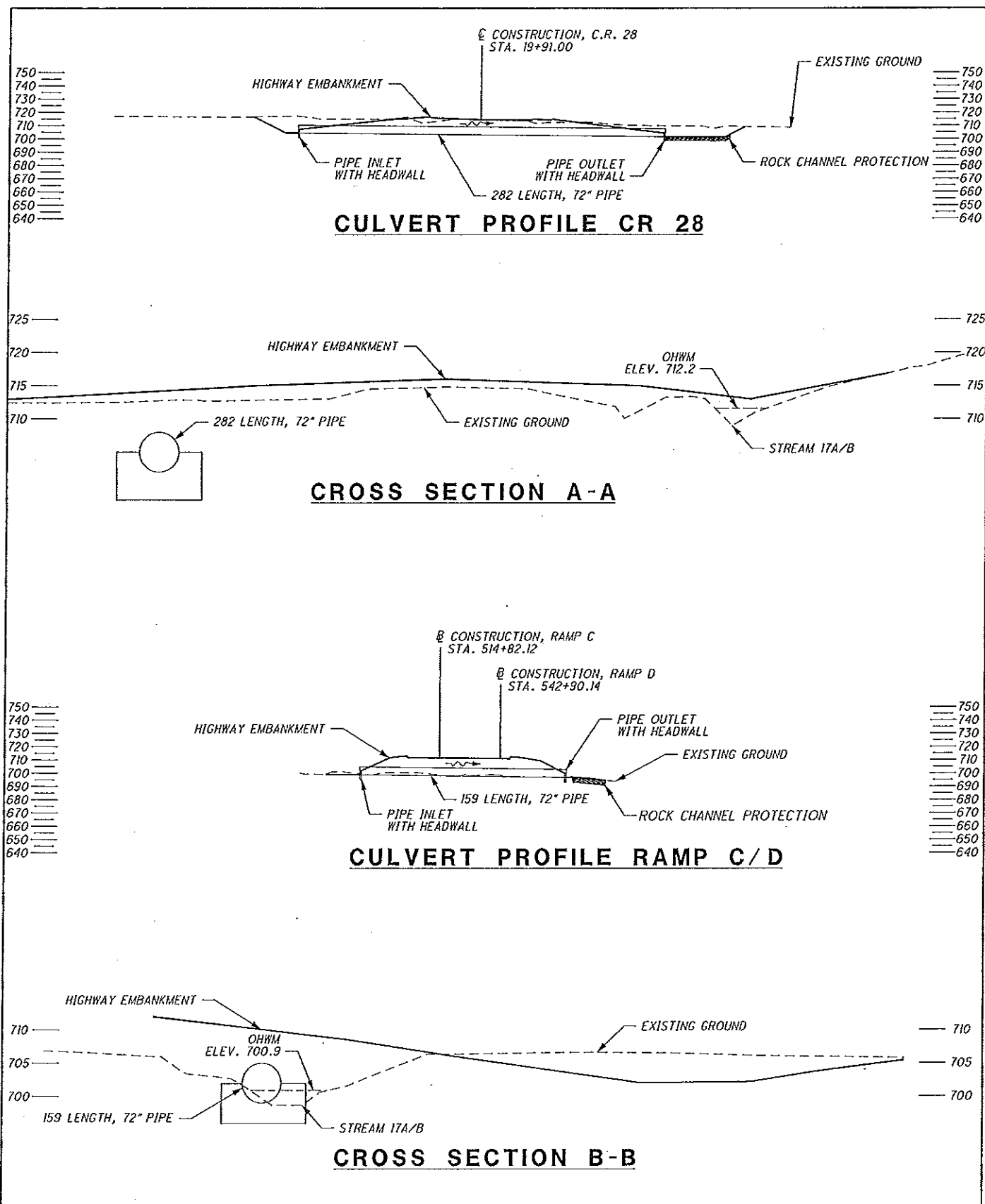
OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

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Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

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FIGURE 3-1

Figure 2. Survey results.



**IMPACTS AT
 STREAM 17A/B**

OHIO DEPARTMENT OF TRANSPORTATION
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FIGURE 3-1A



**IMPACTS AT
 STREAM 17-1-1**

OHIO DEPARTMENT OF TRANSPORTATION
 S.R. 823 BYPASS IN SCIOTO COUNTY

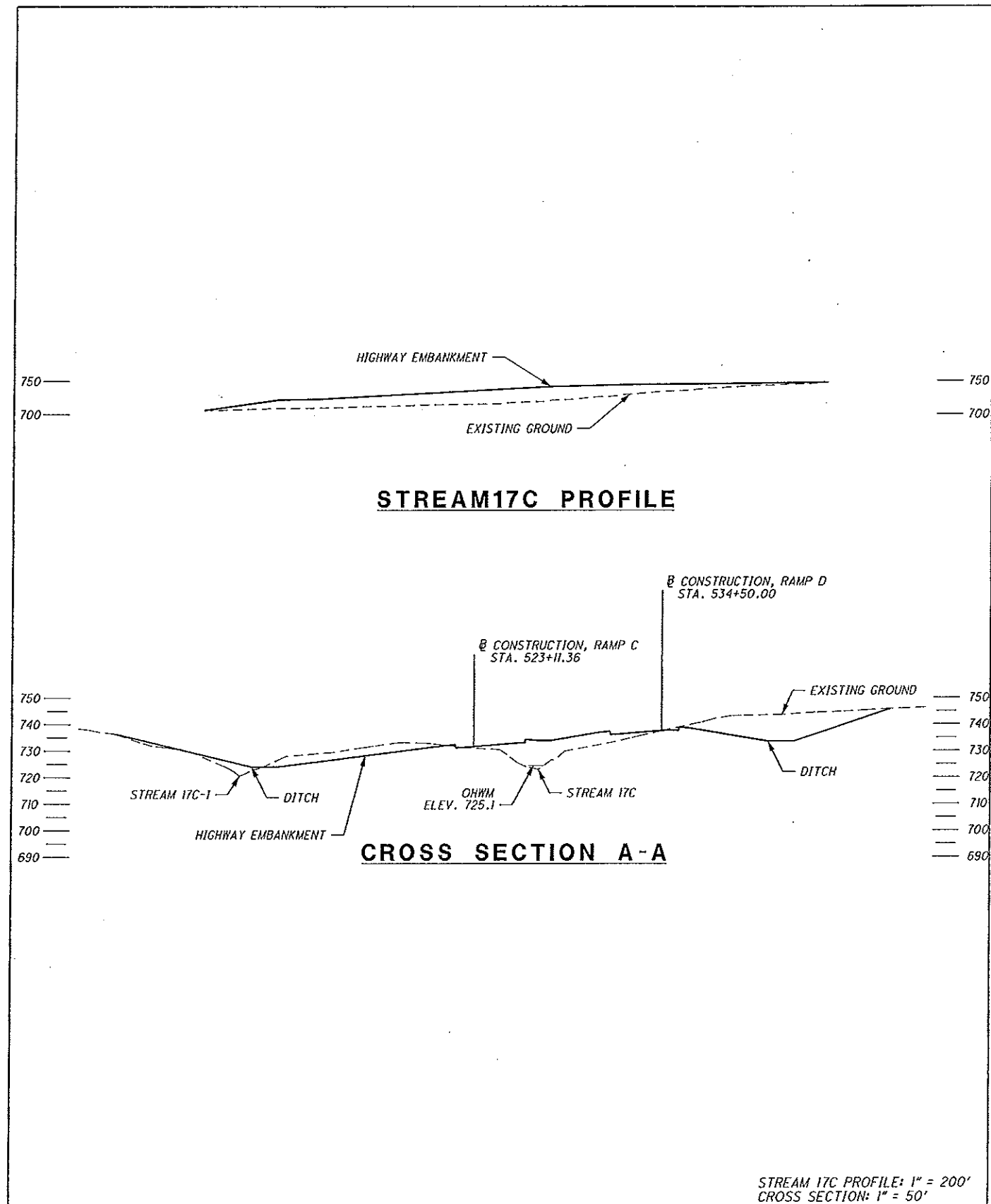
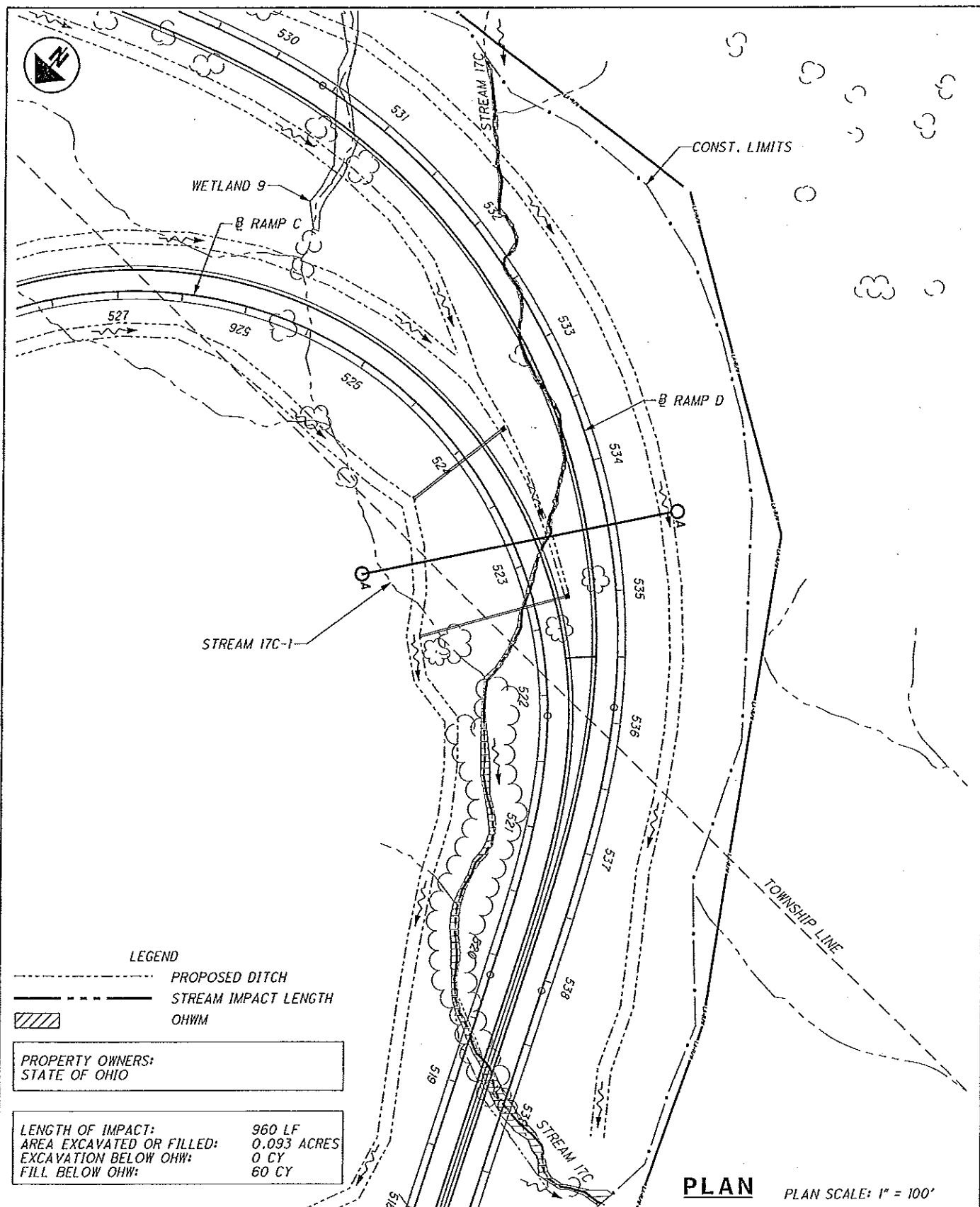
2011-00646-OHR, SCI-823-0.00, PID: 19415

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FIGURE 3-2



**IMPACTS AT
STREAM 17C**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

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FIGURE 3-3



**IMPACTS AT
STREAM 17C**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

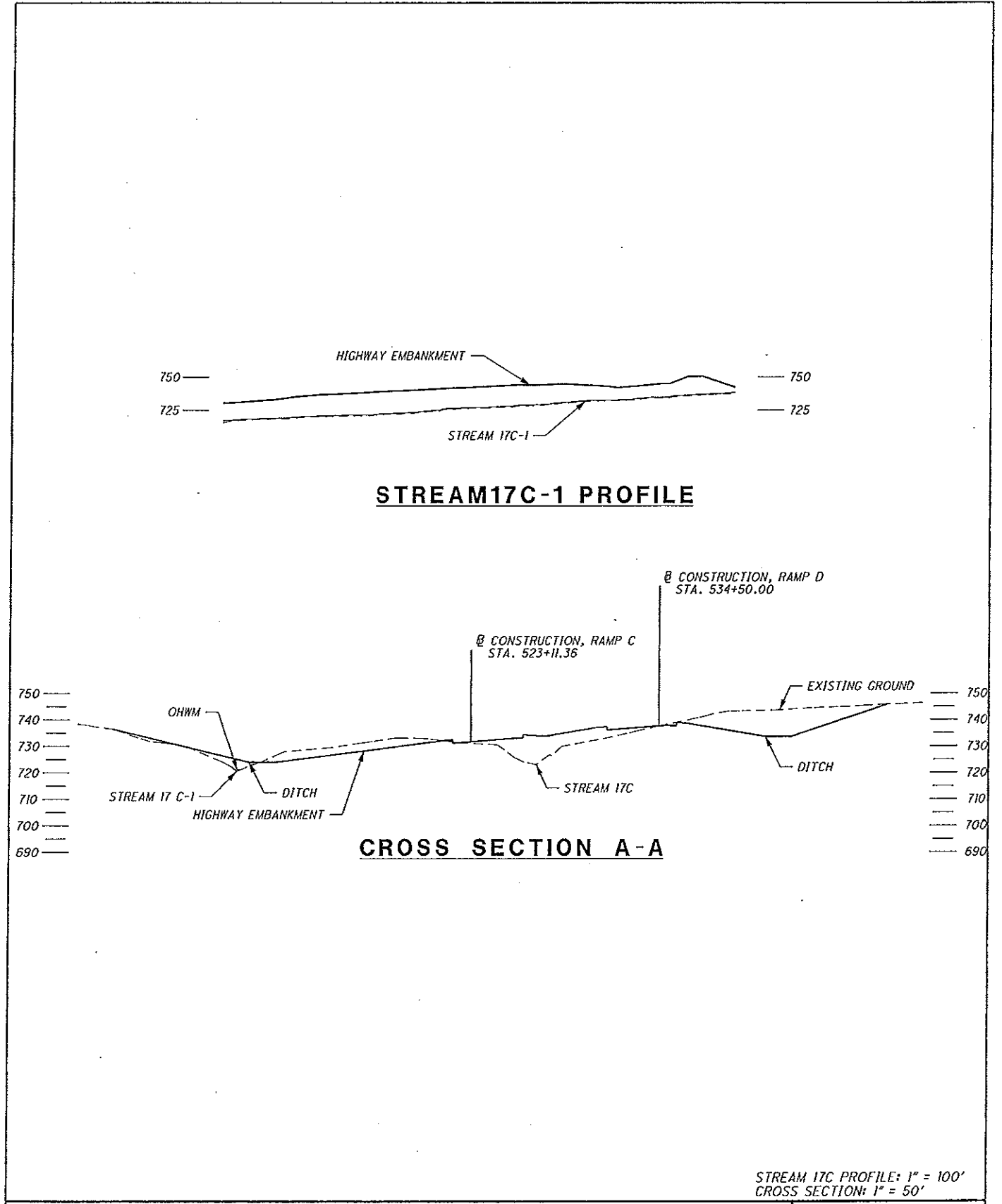
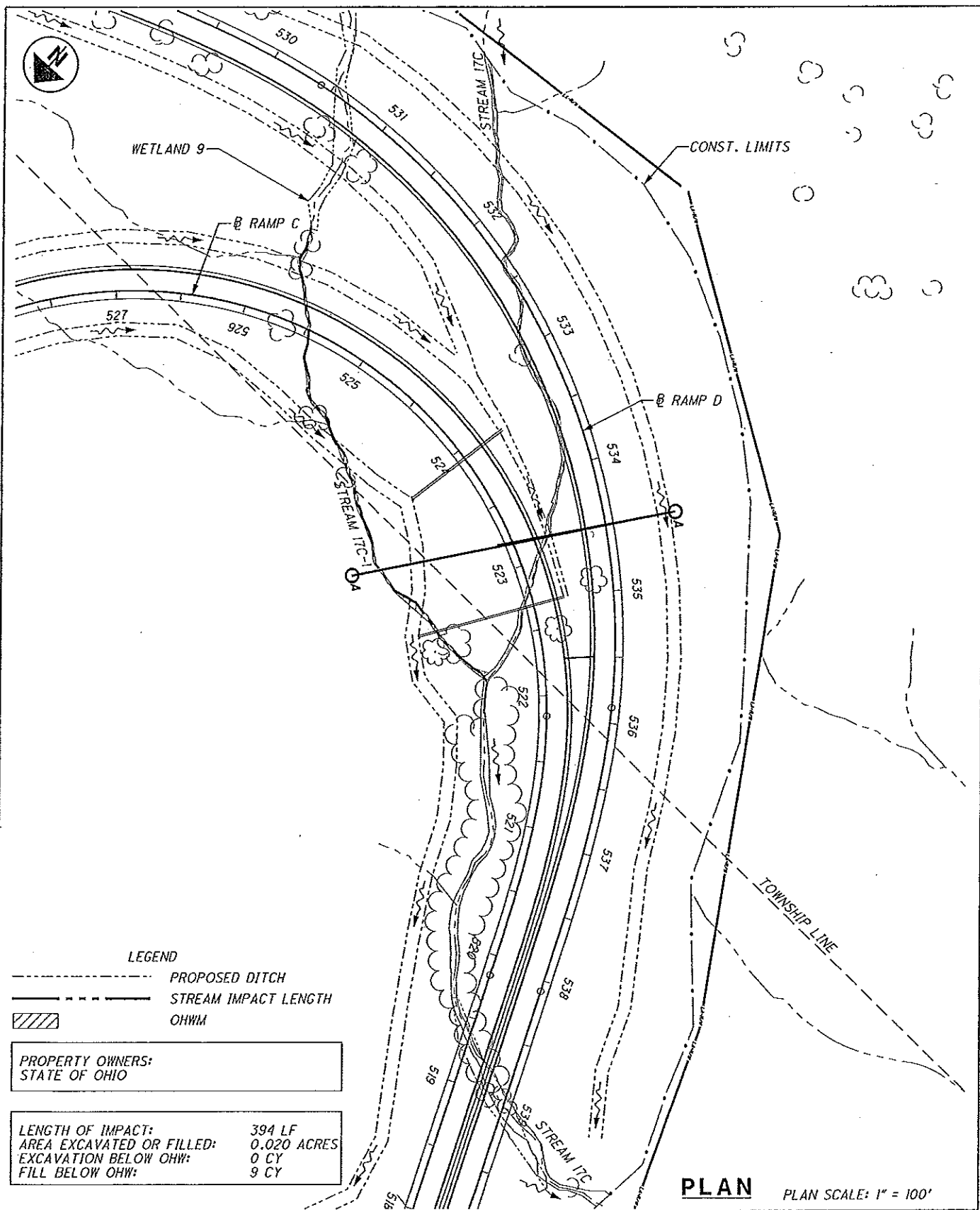
2011-00646-OHR, SCI-823-0.00, PID: 19415

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**FIGURE
3-3A**



**IMPACTS AT
STREAM 17C-1**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

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FIGURE 3-4



**IMPACTS AT
STREAM 17C-1**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

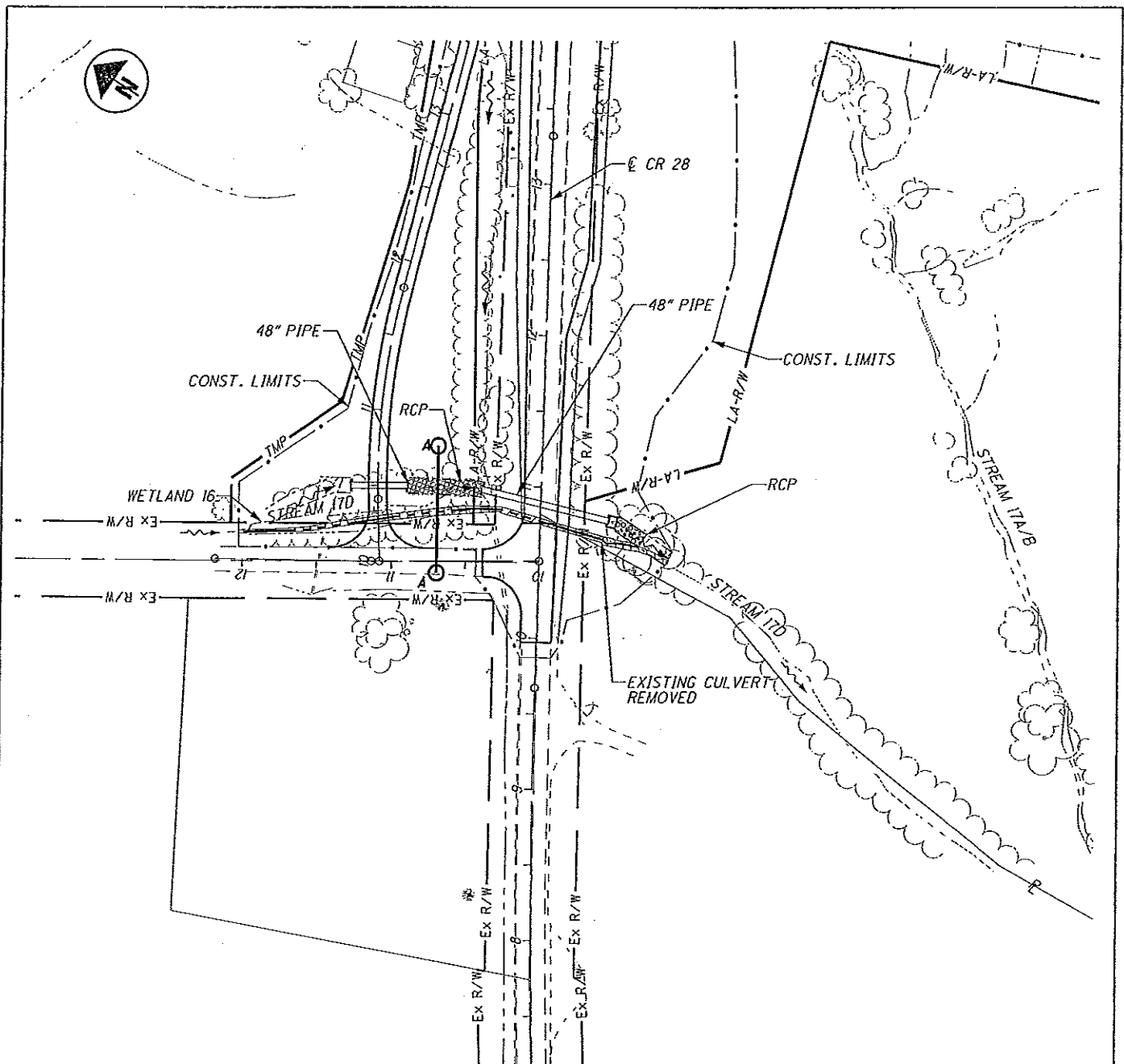
2011-00646-OHR, SCI-823-0.00, PID: 19415

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**FIGURE
3-4A**



PLAN

- LEGEND**
- PROPOSED DITCH
 - STREAM IMPACT LENGTH
 - ▨ OHWM

PROPERTY OWNERS:
ANGELA S YEAGLE
STATE OF OHIO

LENGTH OF IMPACT:	223 LF	EXISTING CULVERT	LENGTH OF IMPACT: 71 LF
AREA EXCAVATED OR FILLED:	0.097 ACRES	AREA FILLED:	0.008 ACRES
EXCAVATION BELOW OHW:	123 CY	FILL BELOW OHW:	6 CY
FILL BELOW OHW:	105 CY		

PLAN SCALE: 1" = 100'



**IMPACTS AT
STREAM 17D**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

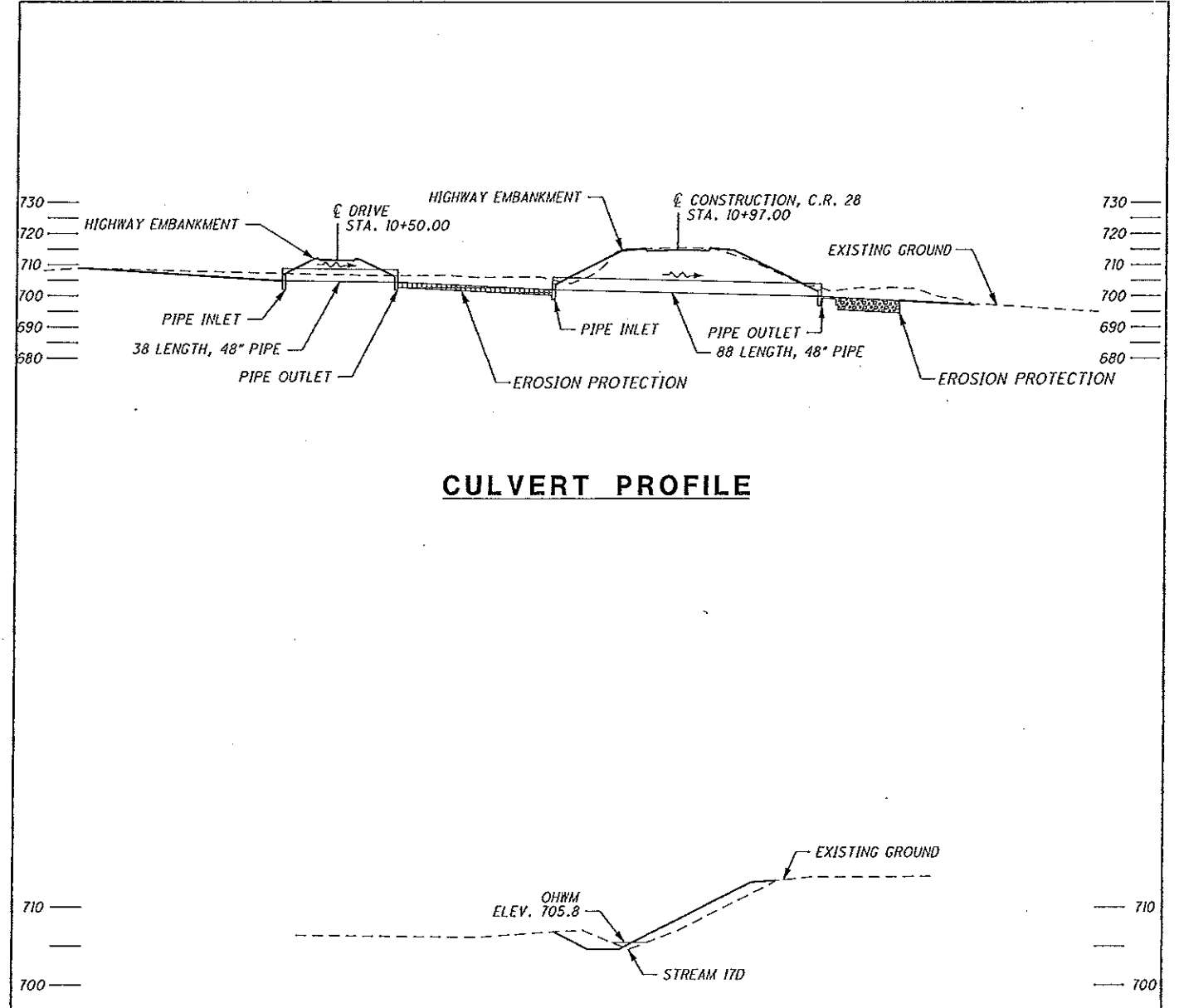
U.S. Army Corps of
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FIGURE 3-5

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CULVERT PROFILE

CROSS SECTION A-A STREAM 17D

CULVERT PROFILE: 1" = 50'
CROSS SECTION: 1" = 20'



**IMPACTS AT
STREAM 17D**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

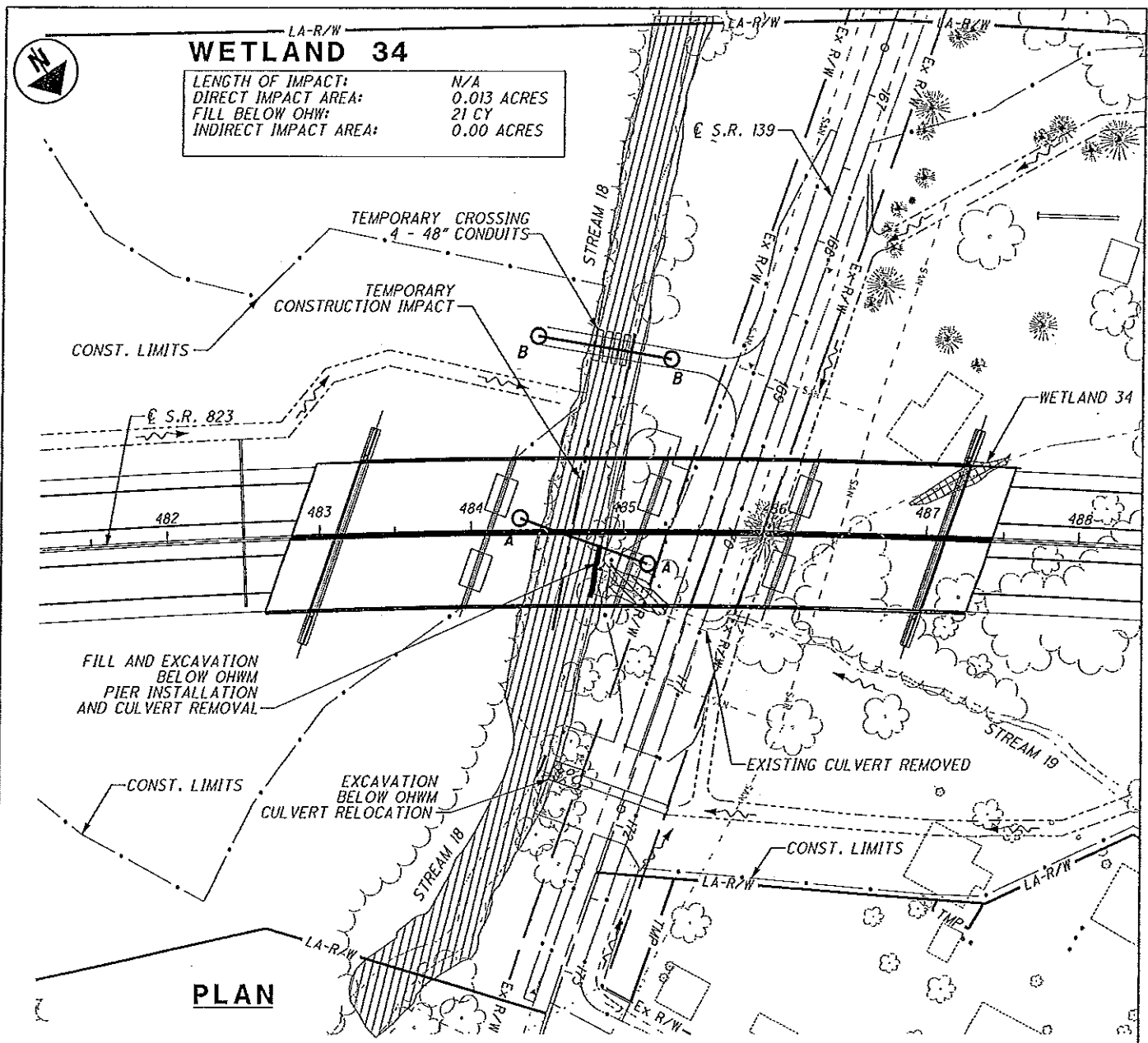
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
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**FIGURE
3-5A**

2011-00646-OHR, SCI-823-0.00, PID: 19415

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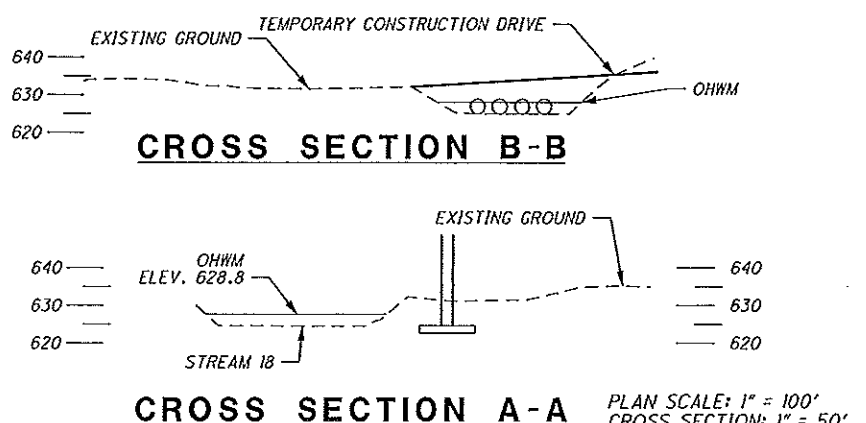
WETLAND 34
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.013 ACRES
 FILL BELOW OHW: 21 CY
 INDIRECT IMPACT AREA: 0.00 ACRES

LEGEND
 - - - PROPOSED DITCH
 - - - STREAM IMPACT LENGTH
 // OHWM

PROPERTY OWNERS:
 JOSEPH AND CRYSTAL PRESTON J/S
 ROBERT TROWBRIDGE

LENGTH OF IMPACT: 55 LF
 AREA EXCAVATED OR FILLED: 0.019 ACRES
 EXCAVATION BELOW OHW: 10 CY
 FILL BELOW OHW: 37 CY

TEMPORARY IMPACT
 LENGTH: 150 LF
 AREA EXCAVATED OR FILLED: 0.146 ACRES
 FILL BELOW OHW: 914 CY



**IMPACTS AT
 STREAM 18
 WETLAND 34**

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 Water Quality
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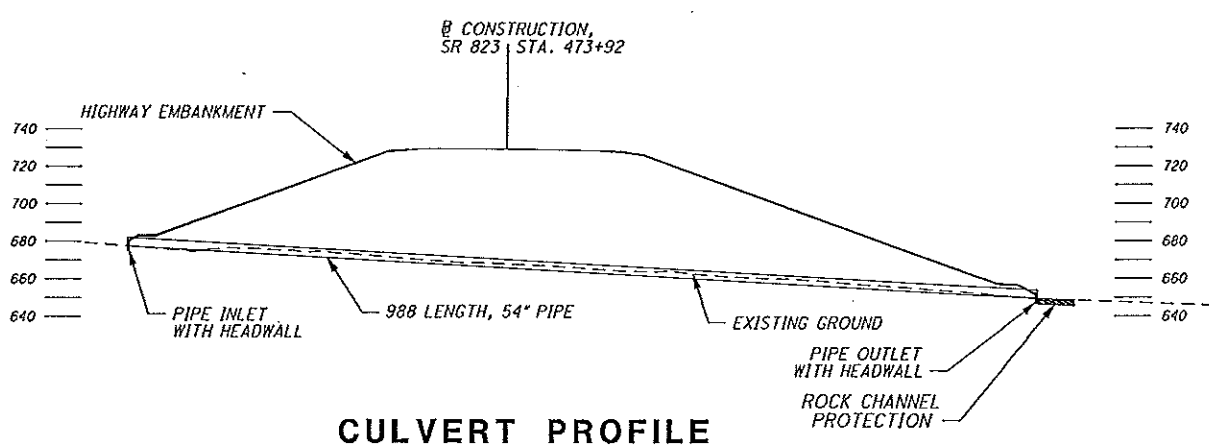
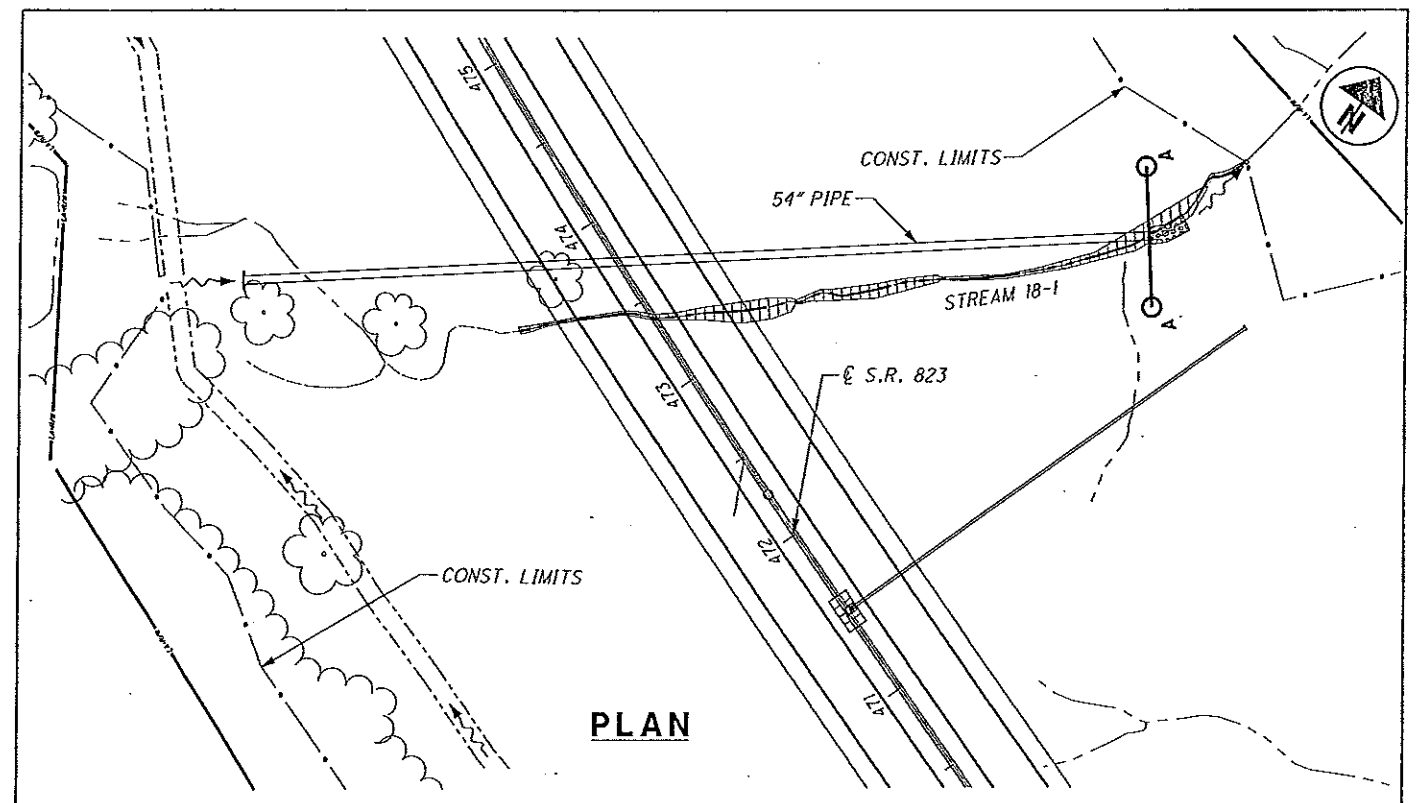
FIGURE 3-6



OHIO DEPARTMENT OF TRANSPORTATION
 S.R. 823 BYPASS IN SCIOTO COUNTY

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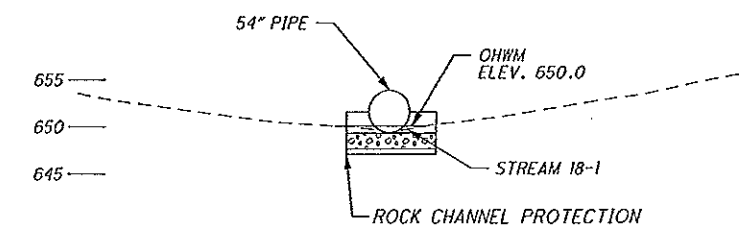
Plan Sheet 18 of 70 (Phase 1 Portsmouth Bypass)



LEGEND
 - - - PROPOSED DITCH
 - - - STREAM IMPACT LENGTH
 // OHWM

PROPERTY OWNERS:
 STATE OF OHIO
 KENNETH R RASE

LENGTH OF IMPACT: 417 LF
 AREA EXCAVATED OR FILLED: 0.051 ACRES
 EXCAVATION BELOW OHW: 12 CY
 FILL BELOW OHW: 32 CY



CROSS SECTION A-A

PLAN SCALE: 1" = 100'
 CULVERT PROFILE: 1" = 100'
 CROSS SECTION: 1" = 20'

**IMPACTS AT
 STREAM 18-1**

U.S. Army Corps of
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 Water Quality
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DATE: 09/13/2011

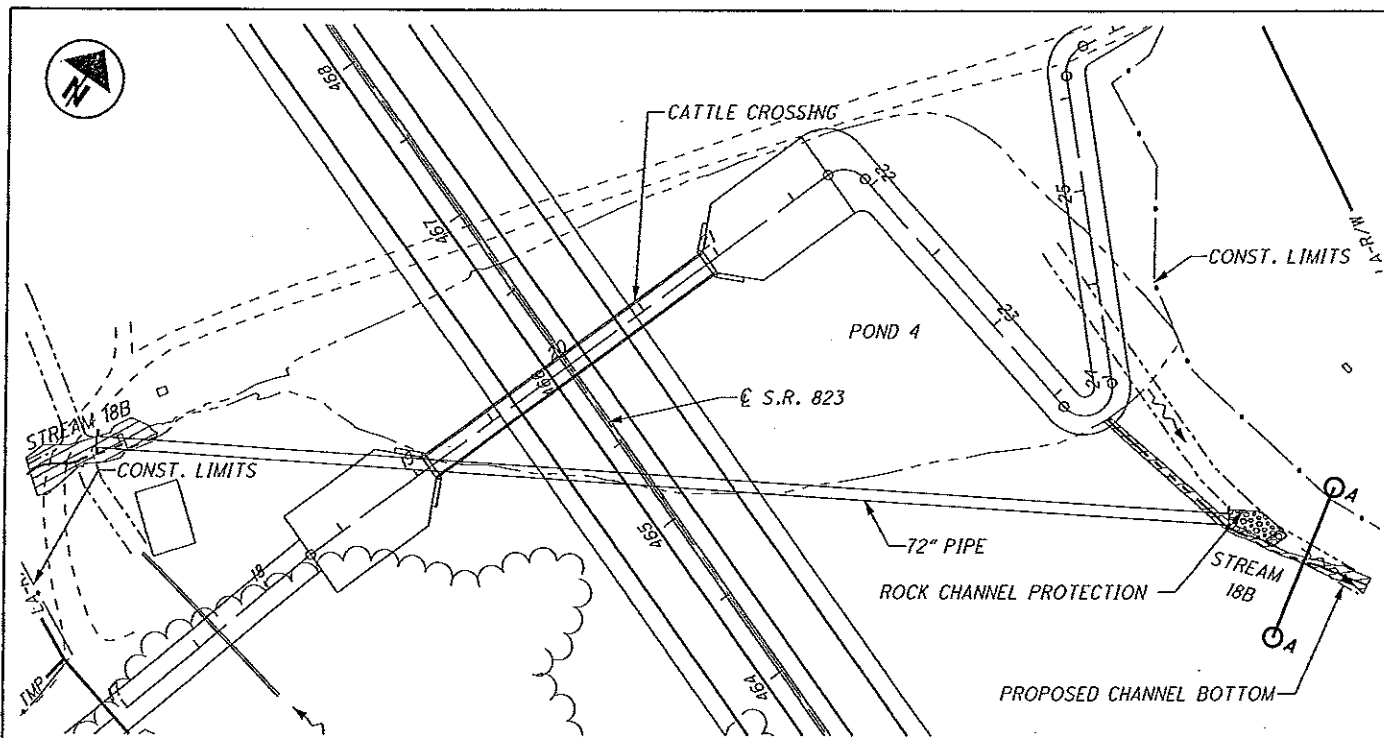
FIGURE 3-7



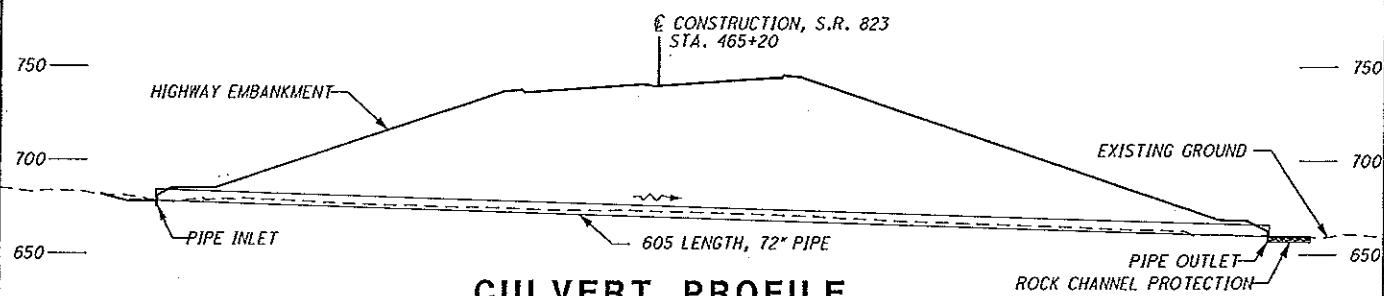
OHIO DEPARTMENT OF TRANSPORTATION
 S.R. 823 BYPASS IN SCIOTO COUNTY

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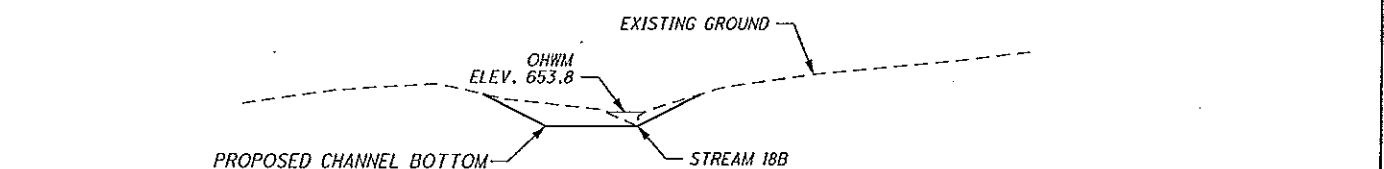
Plan Sheet 19 of 70 (Phase 1 Portsmouth Bypass)



PLAN



CULVERT PROFILE



CROSS SECTION A-A

LEGEND

--- PROPOSED DITCH

--- STREAM IMPACT LENGTH

/// OHWM

PROPERTY OWNERS:
KENNETH R RASE

LENGTH OF IMPACT: 244 LF
 AREA EXCAVATED OR FILLED: 0.052 ACRES
 EXCAVATION BELOW OHW: 60 CY
 FILL BELOW OHW: 56 CY

PLAN SCALE: 1" = 100'
 CROSS SECTION: 1" = 20'



IMPACTS AT
STREAM 18B

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

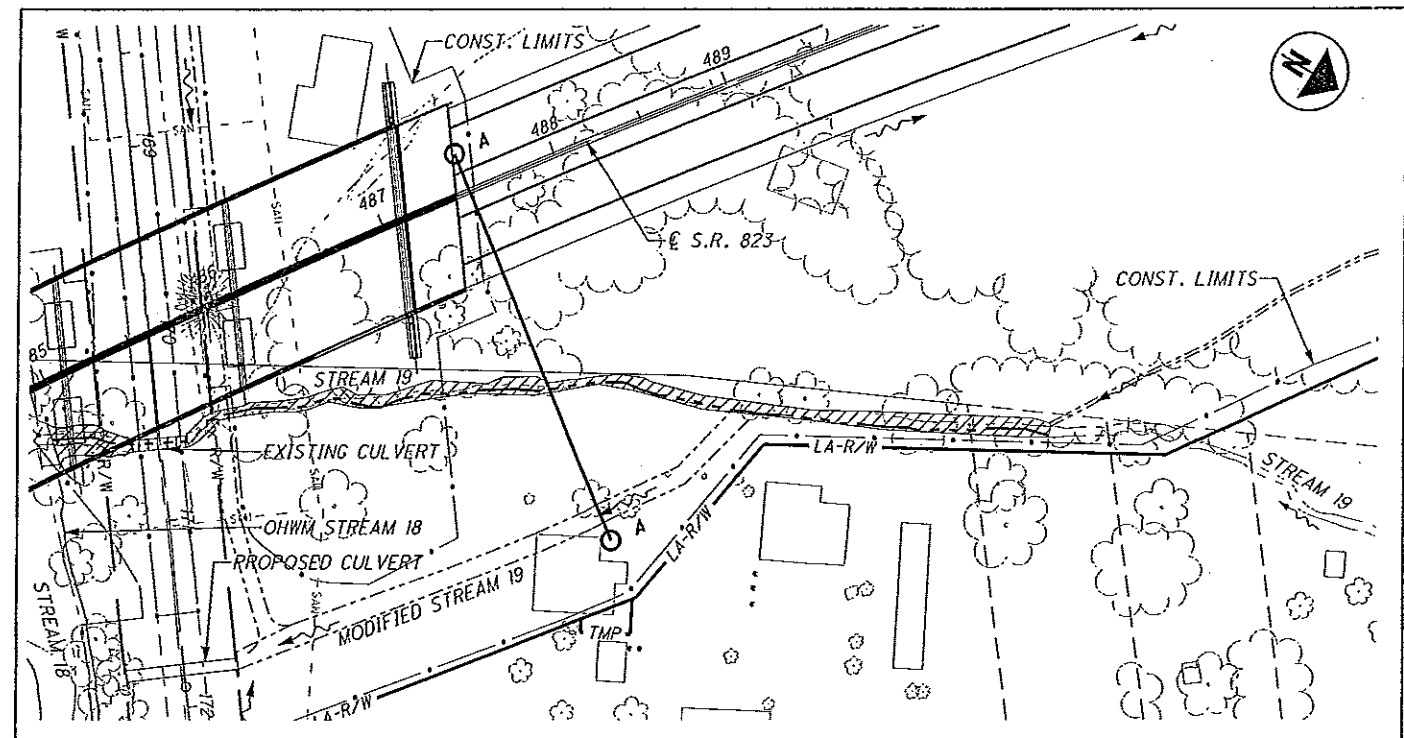
U.S. Army Corps of
Engineers 404 Permit
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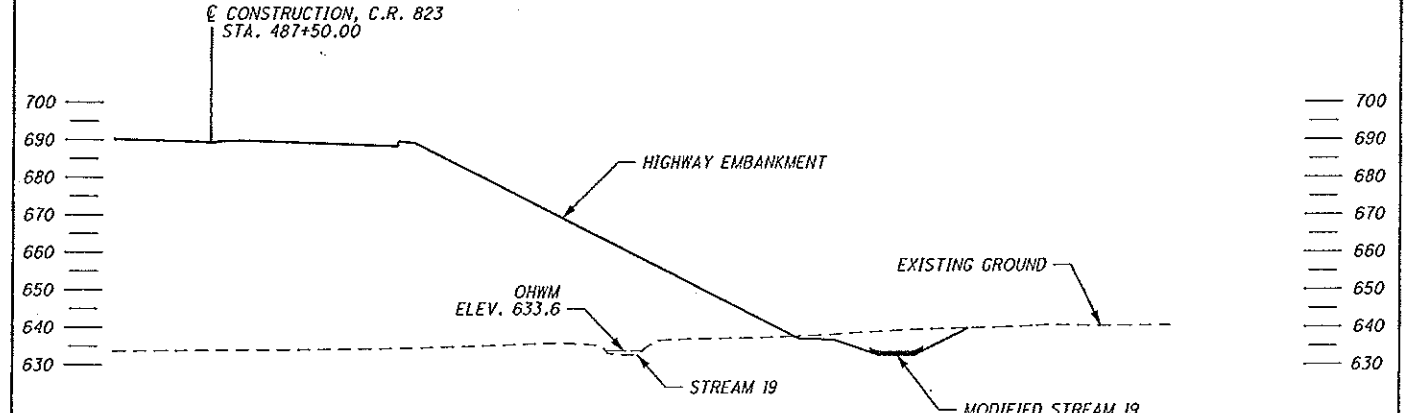
FIGURE 3-8

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PLAN



CROSS SECTION A-A

LEGEND

--- PROPOSED DITCH

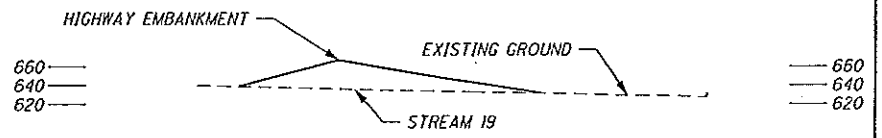
--- STREAM IMPACT LENGTH

/// OHWM

PROPERTY OWNERS:
JOSEPH AND CRYSTAL PRESTON J/S
JOSEPH D AND BETH A WEEKLY J/S

LENGTH OF IMPACT: 500 LF
 AREA EXCAVATED OR FILLED: 0.110 ACRES
 EXCAVATION BELOW OHW: 121 CY
 FILL BELOW OHW: 143 CY

EXISTING CULVERT
 LENGTH OF IMPACT: 30 LF
 AREA FILLED: 0.004 ACRES
 FILL BELOW OHW: 8 CY



STREAM 19 PROFILE

PLAN SCALE: 1" = 100'
 CROSS SECTION: 1" = 50'
 STREAM PROFILE: 1" = 200'



IMPACTS AT
STREAM 19

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

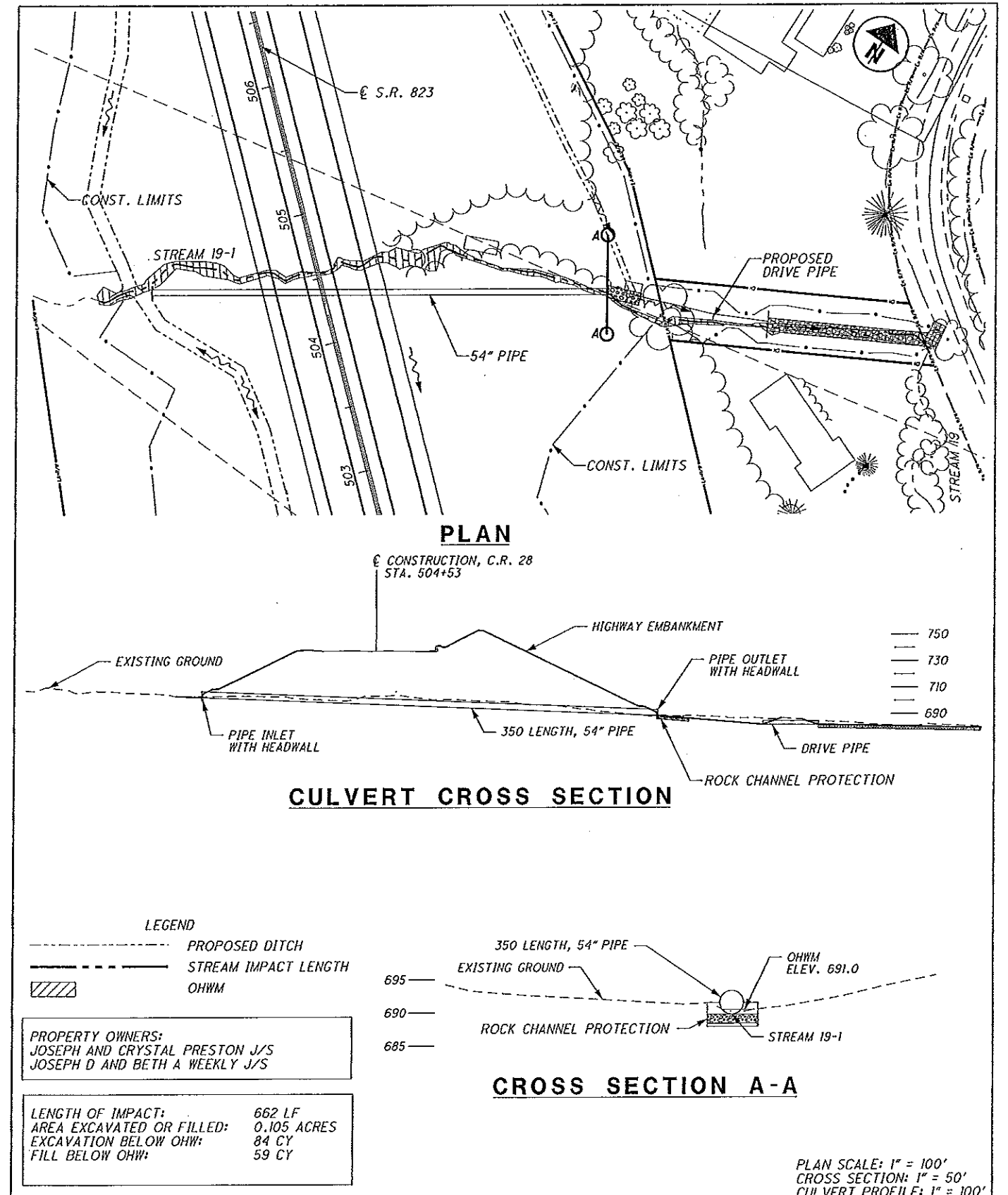
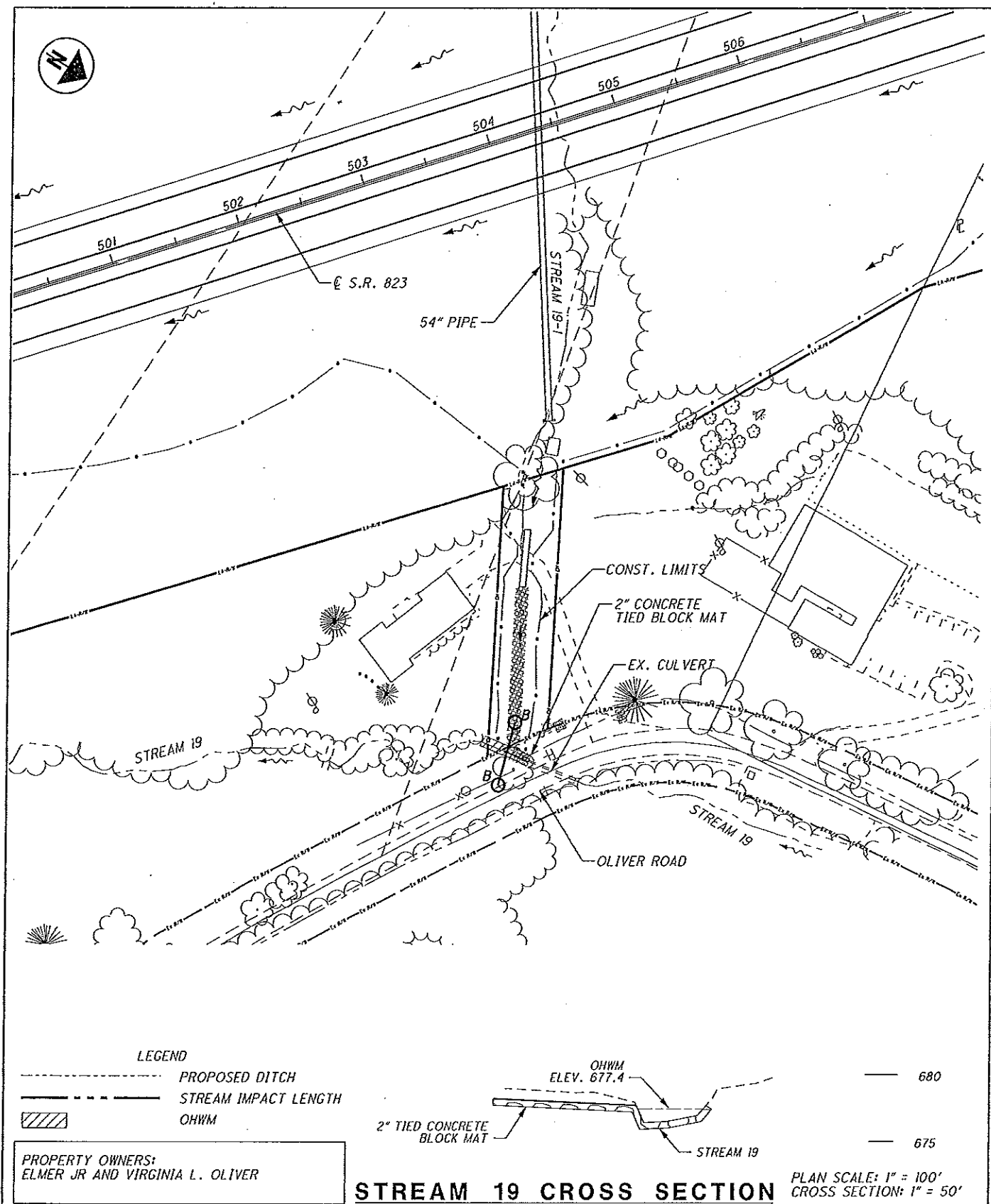
U.S. Army Corps of
Engineers 404 Permit
and OSPA Section 401
Water Quality
Certification
Application

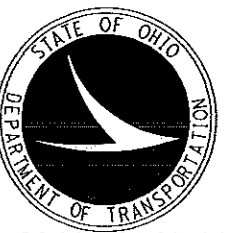
DATE: 09/13/2011

FIGURE 3-9

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**IMPACTS AT
STREAM 19**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY


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**FIGURE
3-9A**



**IMPACTS AT
STREAM 19-1**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

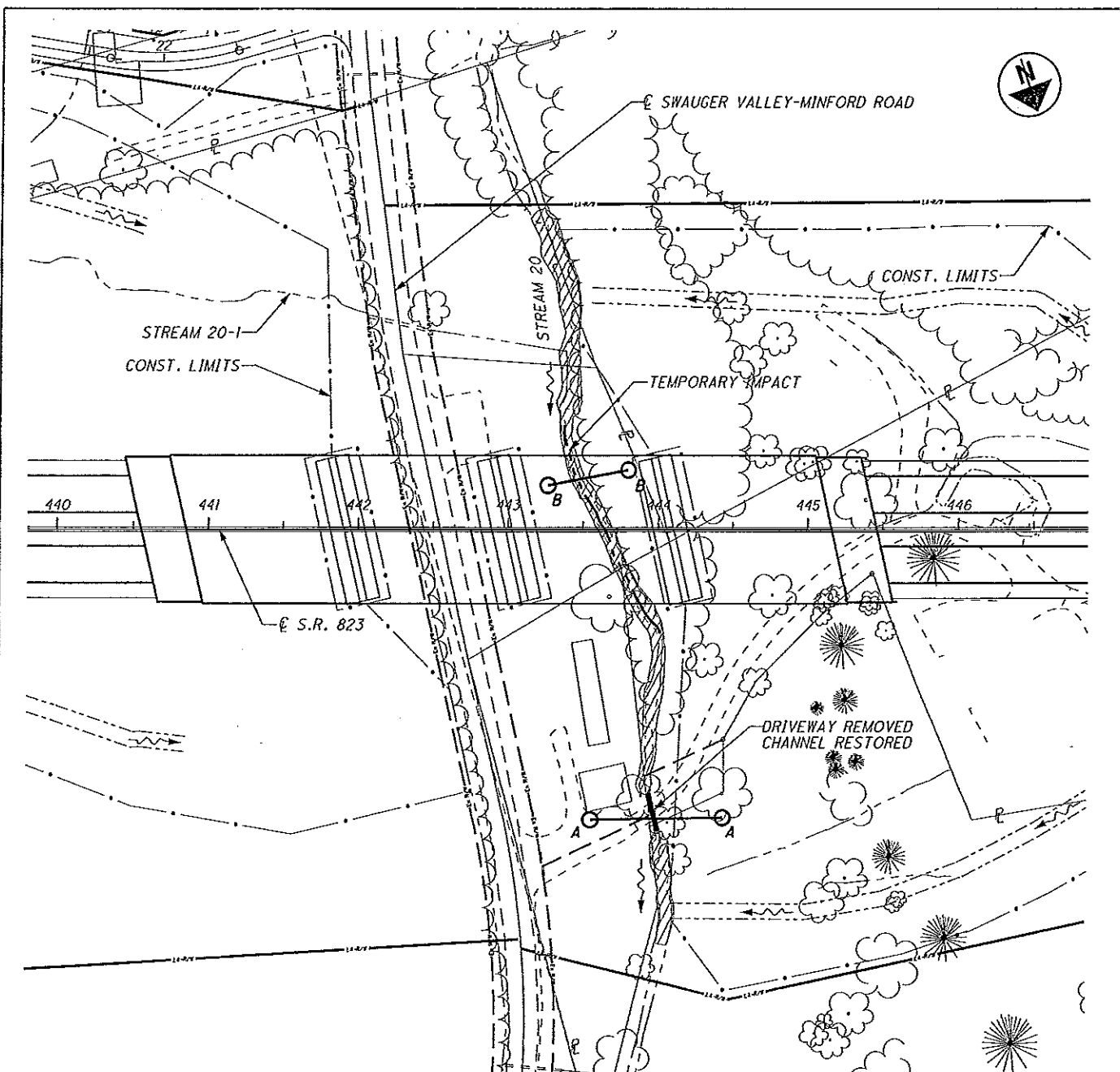
2011-00646-OHR, SCI-823-0.00, PID: 19415

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U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-10



PLAN

LEGEND

- PROPOSED DITCH
- STREAM IMPACT LENGTH
- ▨ OHWM

PROPERTY OWNERS:
STATE OF OHIO
CHARLES SMITH, JOAN SMITH AND MICHAEL CONKEL

LENGTH OF IMPACT:	23 LF	TEMPORARY	
AREA EXCAVATED OR FILLED:	0.004 ACRES	LENGTH OF IMPACT:	150 LF
EXCAVATION BELOW OHW:	10 CY	AREA EXCAVATED OR FILLED:	0.110 ACRES
FILL BELOW OHW:	0 CY	FILL BELOW OHW:	261 CY

PLAN SCALE: 1" = 100'



**IMPACTS AT
STREAM 20**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

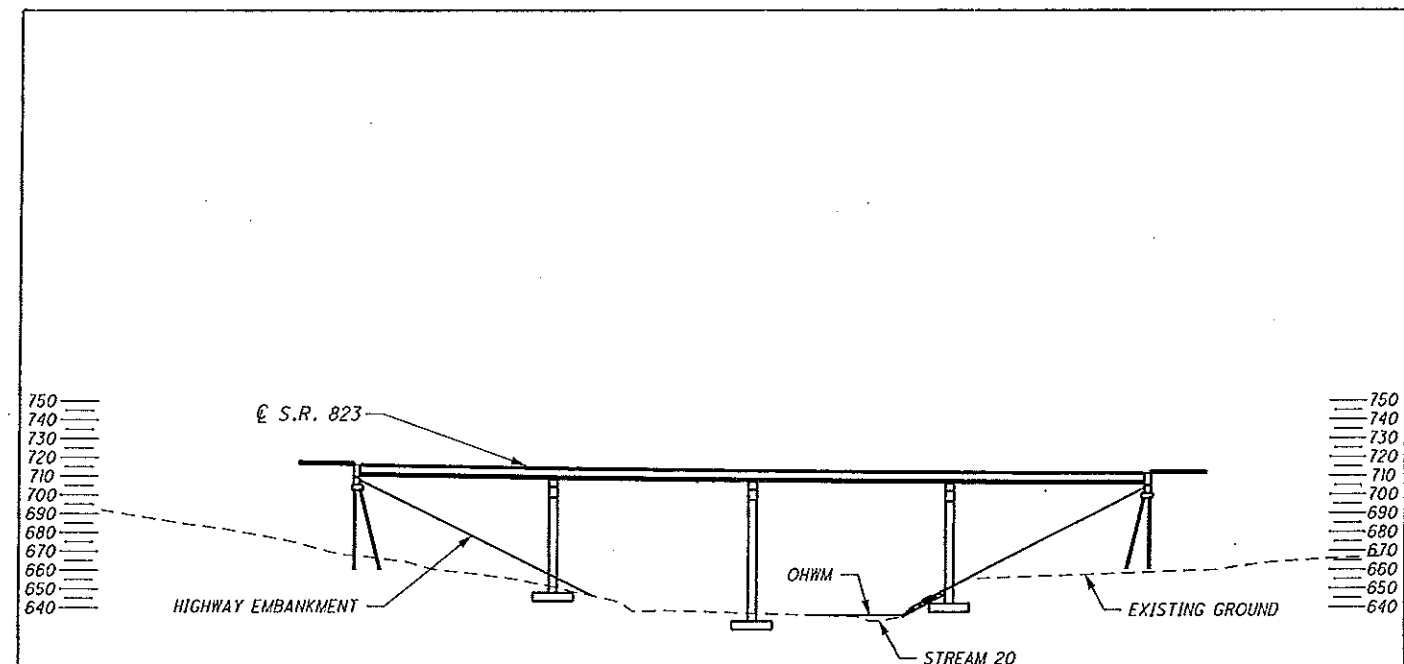
2011-00646-OHR, SCI-823-0.00, PID: 19415

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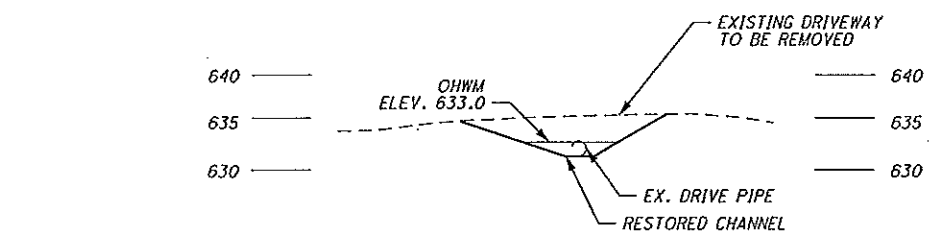
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

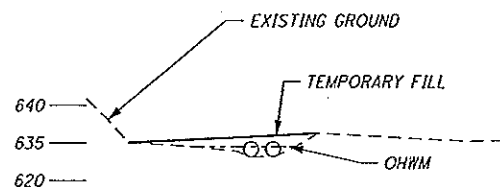
FIGURE 3-11



BRIDGE PROFILE

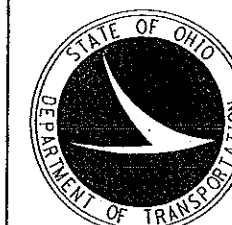


**CROSS SECTION A-A
DRIVEWAY PROFILE**



CROSS SECTION B-B

BRIDGE PROFILE: 1" = 100' H
BRIDGE PROFILE: 1" = 20' V
DRIVEWAY PROFILE: 1" = 20'



**IMPACTS AT
STREAM 20**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

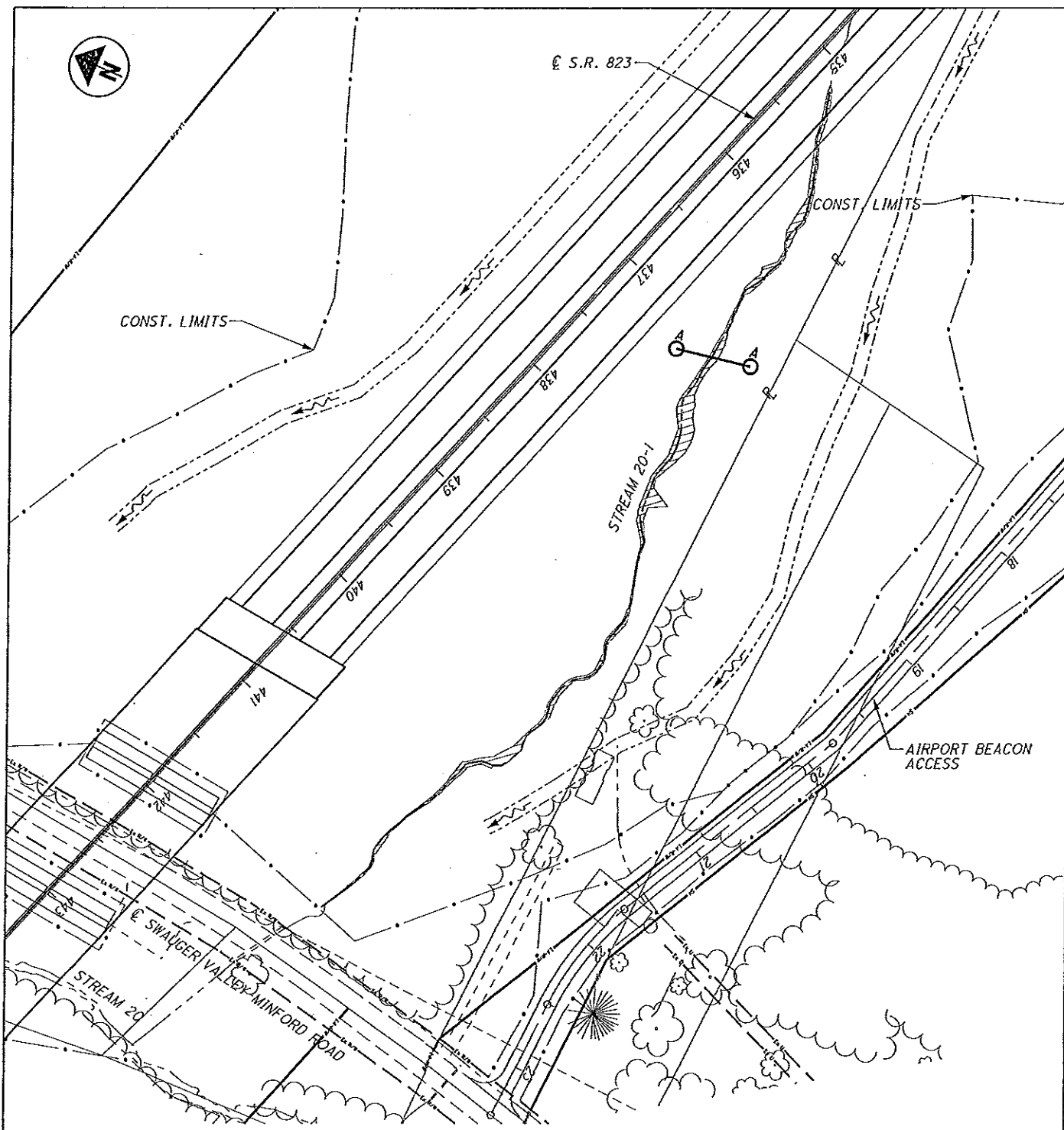
2011-00646-OHR, SCI-823-0.00, PID: 19415

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U.S. Army Corps of
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and OEPA Section 401
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Certification
Application

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**FIGURE
3-11A**



PLAN

PROPERTY OWNERS:
 STATE OF OHIO
 TIMOTHY AND AMBER SPARKS
 PATRICIA ADAMS
 DAVID SAMSON

LENGTH OF IMPACT: 720 LF
 AREA EXCAVATED OR FILLED: 0.068 ACRES
 EXCAVATION BELOW OHW: 0 CY
 FILL BELOW OHW: 30 CY

LEGEND

----- PROPOSED DITCH
 ——— STREAM IMPACT LENGTH
 [Wavy Line] OHWM

PLAN SCALE: 1" = 100'



**IMPACTS AT
 STREAM 20-1**

OHIO DEPARTMENT OF TRANSPORTATION
 S.R. 823 BYPASS IN SCIOTO COUNTY

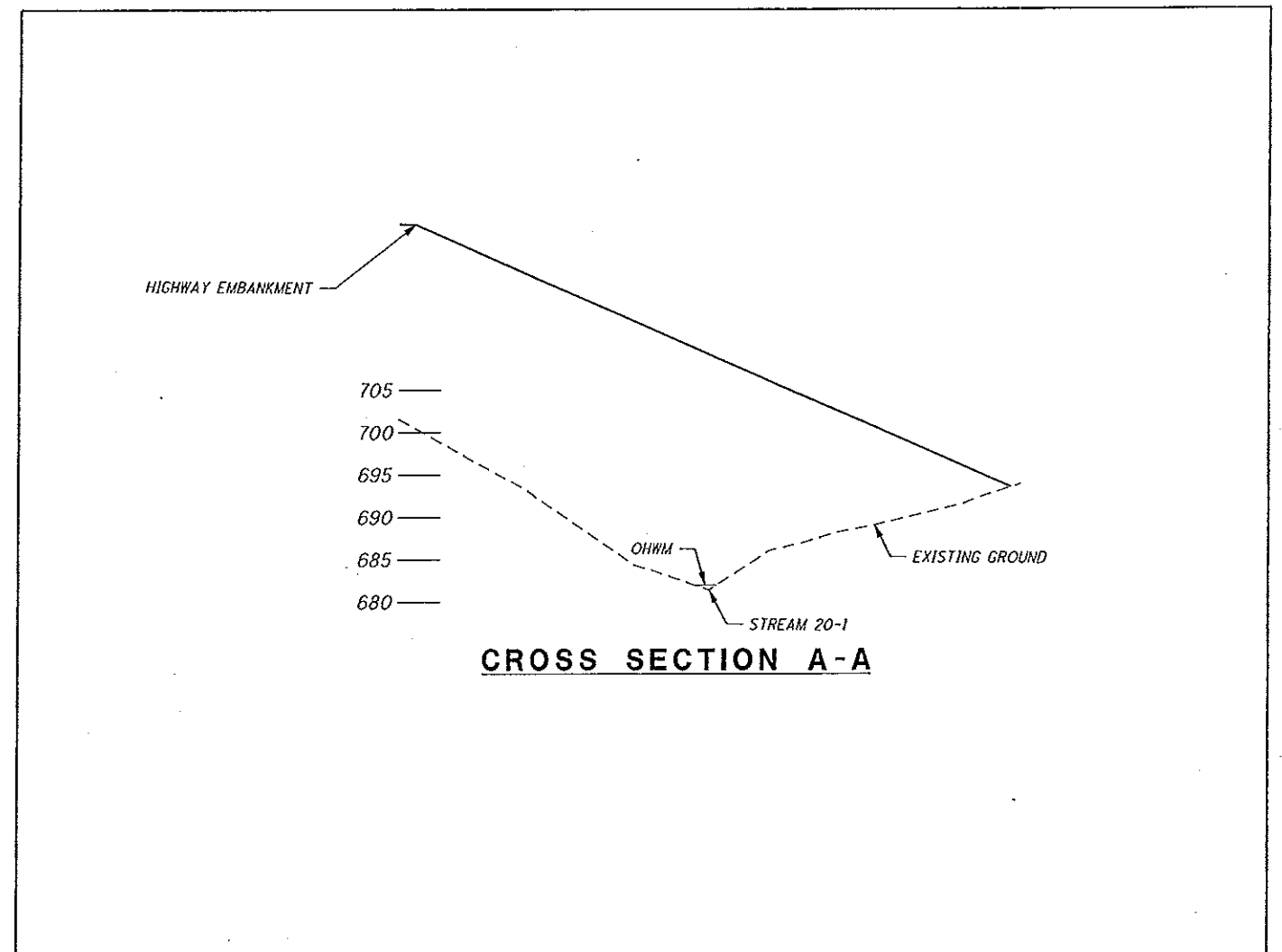
U.S. Army Corps of
 Engineers 404 Permit
 and OEPA Section 401
 Water Quality
 Certification
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DATE: 09/13/2011

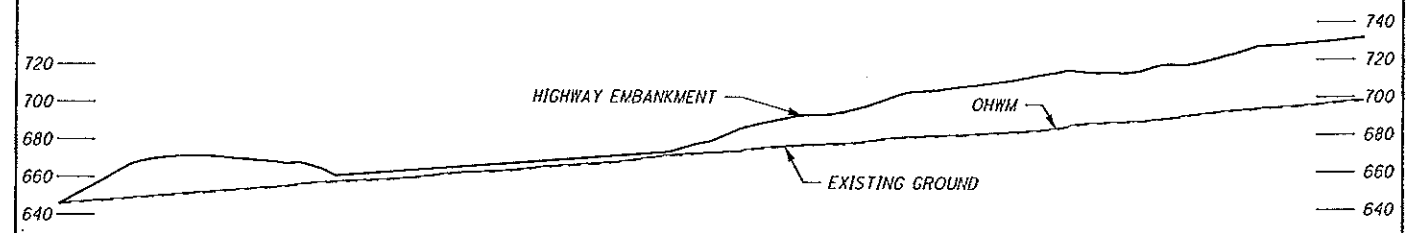
FIGURE 3-12

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CROSS SECTION A-A



STREAM 20-1 PROFILE

STREAM PROFILE: 1" = 100' H
 STREAM PROFILE: 1" = 100' V
 STREAM CROSS SECTION: 1" = 20'



**IMPACTS AT
 STREAM 20-1**

OHIO DEPARTMENT OF TRANSPORTATION
 S.R. 823 BYPASS IN SCIOTO COUNTY

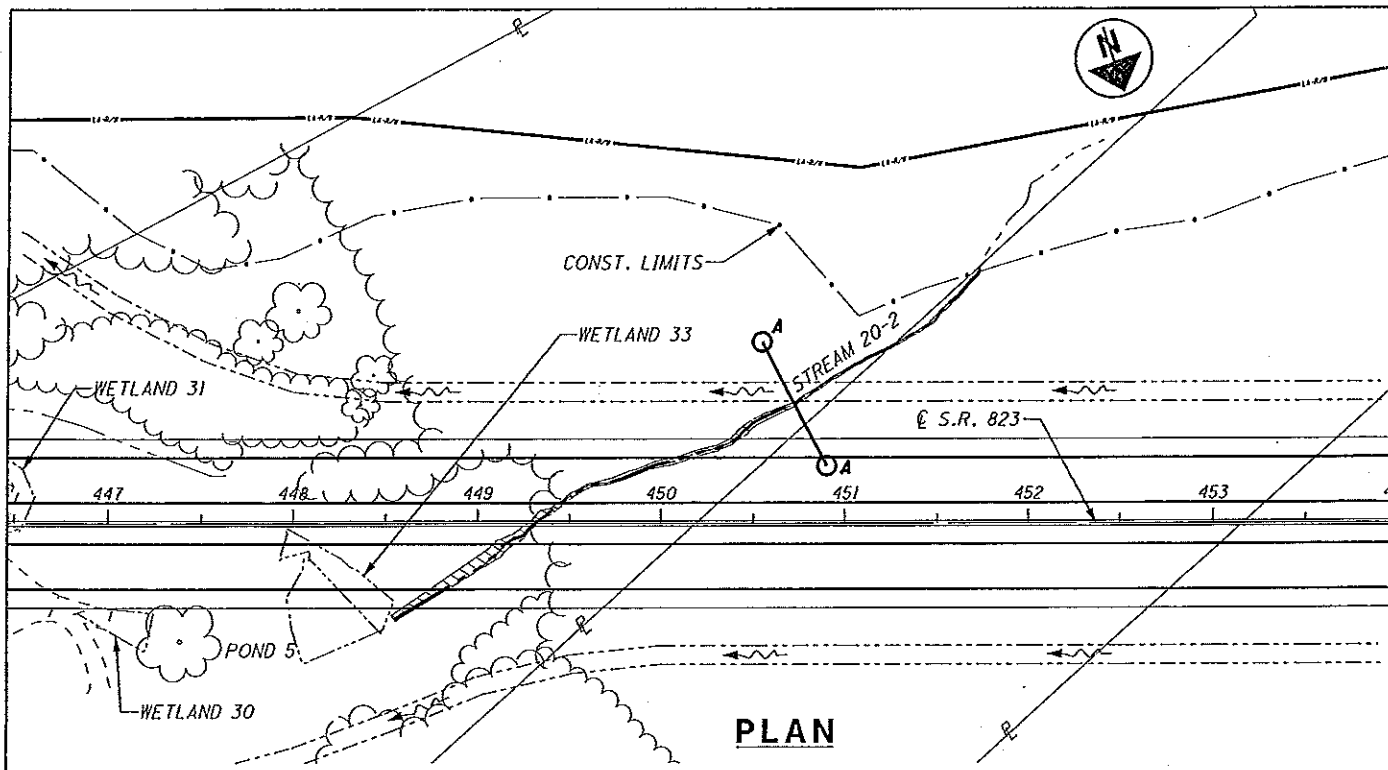
U.S. Army Corps of
 Engineers 404 Permit
 and OEPA Section 401
 Water Quality
 Certification
 Application

DATE: 09/13/2011

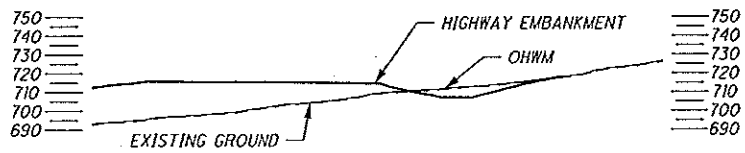
**FIGURE
 3-12A**

2011-00646-OHR, SCI-823-0.00, PID: 19415

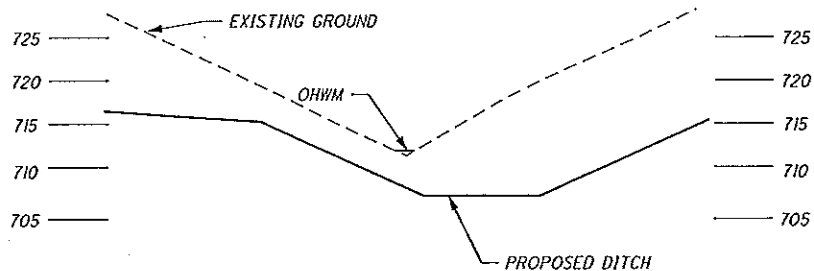
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PLAN



STREAM 20-2 PROFILE



CROSS SECTION A-A

PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT: 375 LF
AREA EXCAVATED OR FILLED: 0.027 ACRES
EXCAVATION BELOW OHW: 17 CY
FILL BELOW OHW: 7 CY

LEGEND
 - - - - - PROPOSED DITCH
 - - - - - STREAM IMPACT LENGTH
 ▨ OHWM

PLAN SCALE: 1" = 100'
PROFILE SCALE: 1" = 100'
CROSS SECTION SCALE: 1" = 20'



**IMPACTS AT
STREAM 20-2**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

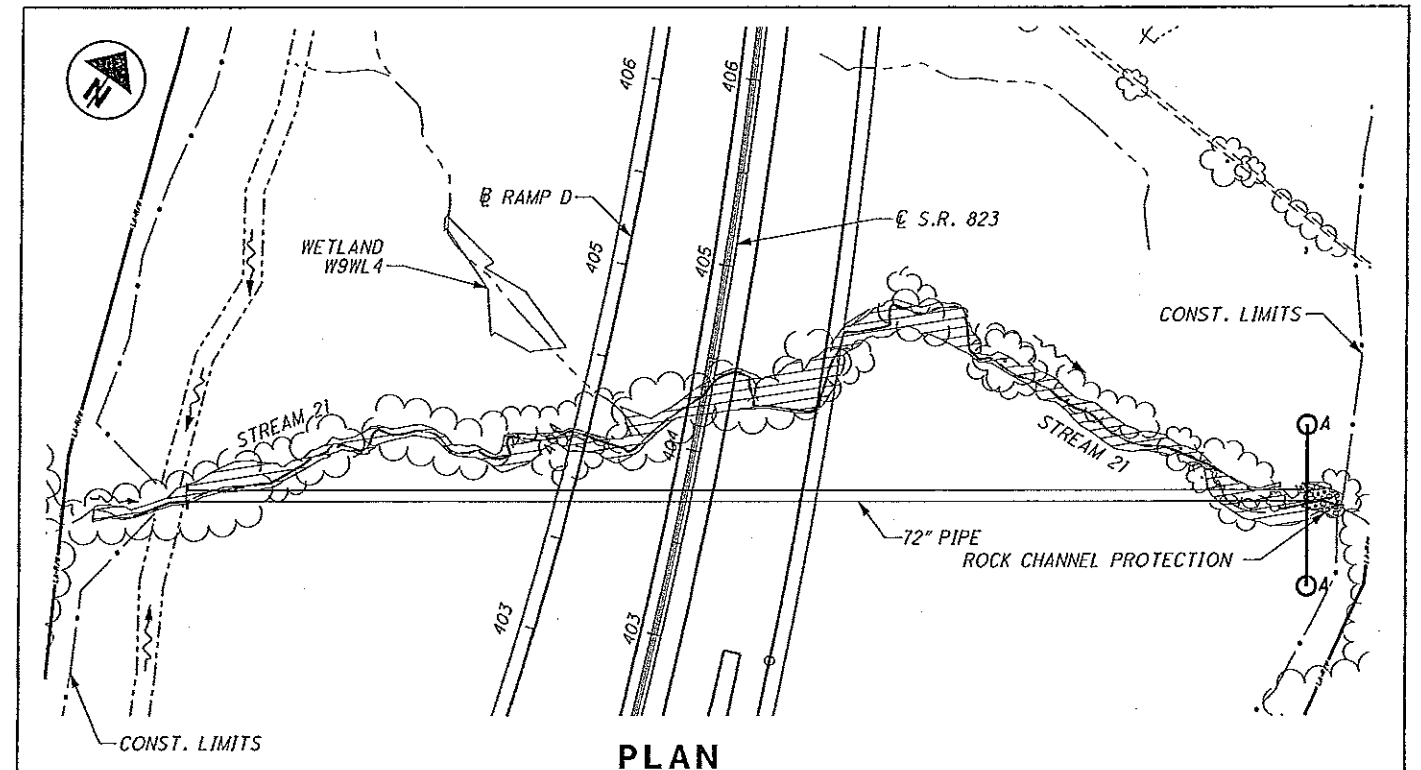
2011-00646-OHR, SCI-823-0.00, PID: 19415

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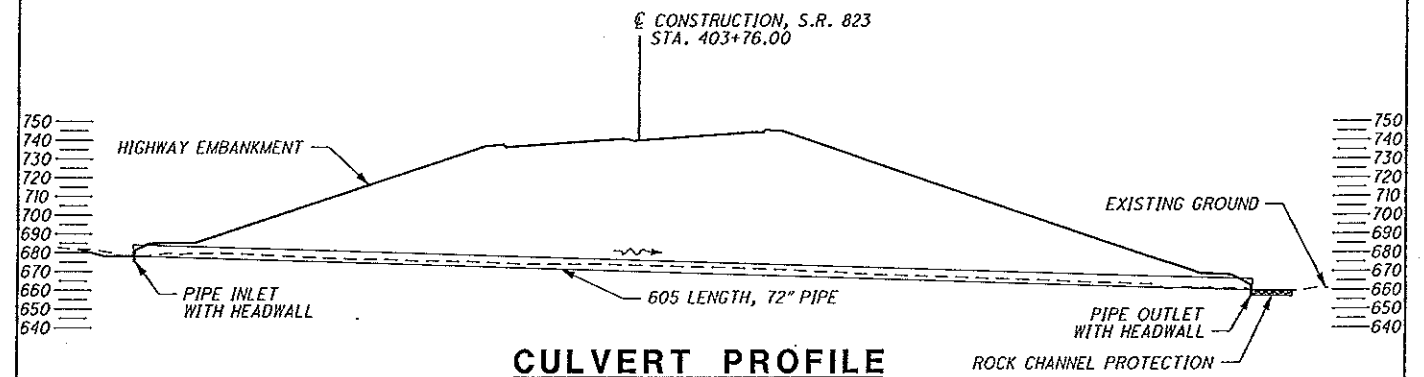
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

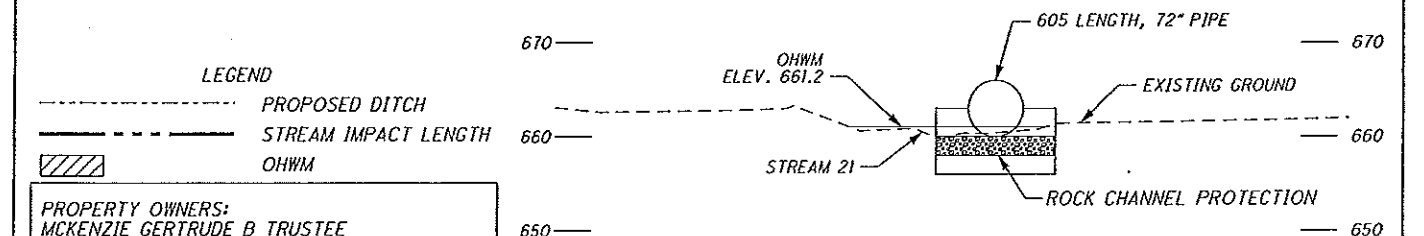
FIGURE 3-13



PLAN



CULVERT PROFILE



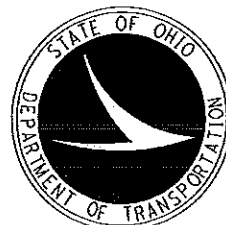
CROSS SECTION A-A

PROPERTY OWNERS:
MCKENZIE GERTRUDE B TRUSTEE
GERTRUDEB MCKENZIE REVOCABLE TRUST

LENGTH OF IMPACT: 802 LF
AREA EXCAVATED OR FILLED: 0.218 ACRES
EXCAVATION BELOW OHW: 20 CY
FILL BELOW OHW: 263 CY

LEGEND
 - - - - - PROPOSED DITCH
 - - - - - STREAM IMPACT LENGTH
 ▨ OHWM

PLAN SCALE: 1" = 100'
CULVERT PROFILE: 1" = 100' H
CROSS SECTION: 1" = 20'



**IMPACTS AT
STREAM 21**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

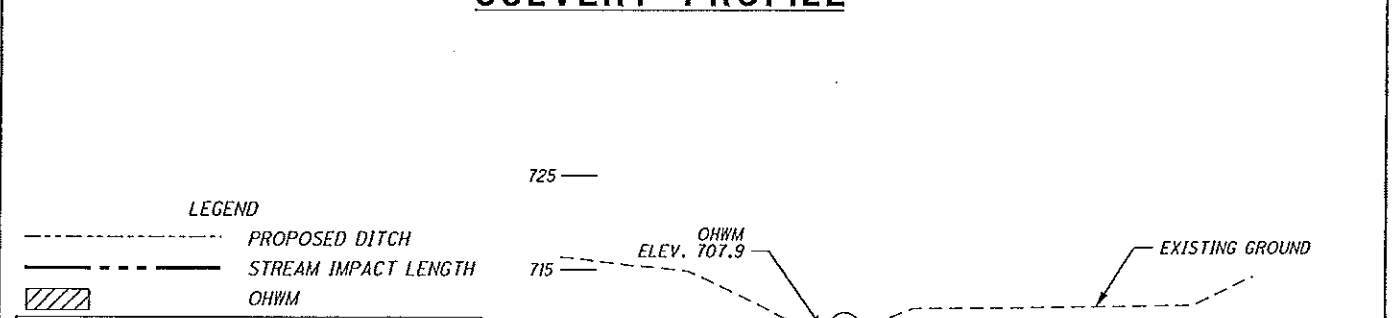
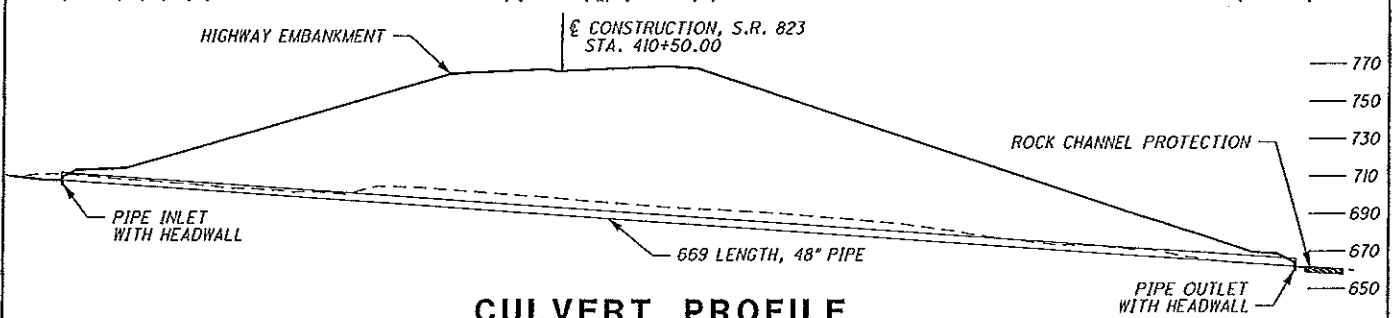
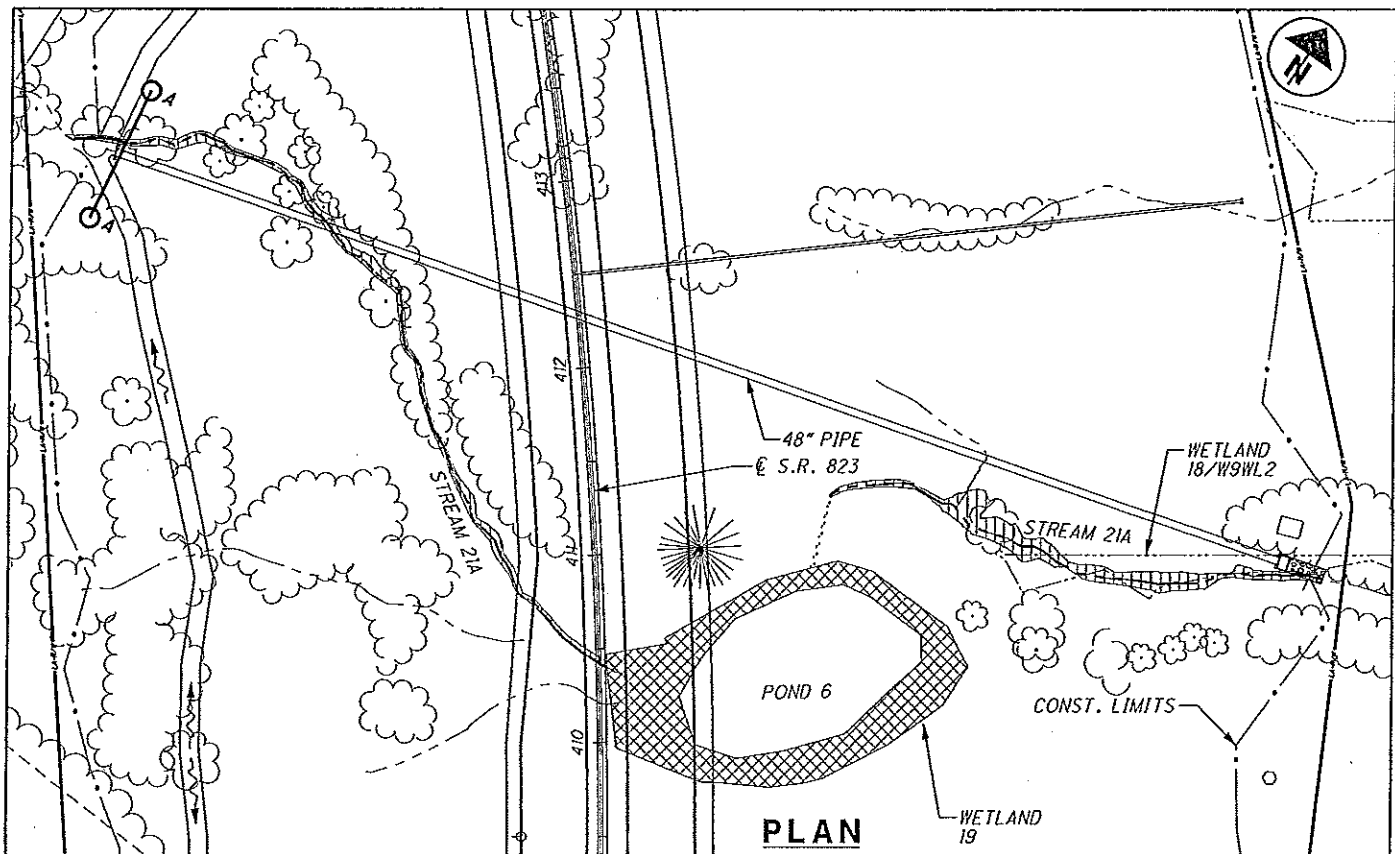
2011-00646-OHR, SCI-823-0.00, PID: 19415

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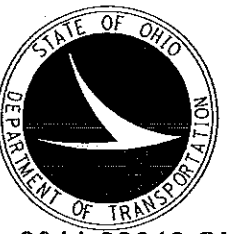
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

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FIGURE 3-14



PROPERTY OWNERS: MCKENZIE GERTRUDE B TRUSTEE GERTRUDE MCKENZIE REVOCABLE TRUST	
LENGTH OF IMPACT: AREA EXCAVATED OR FILLED: EXCAVATION BELOW OHW: FILL BELOW OHW:	745 LF 0.043 ACRES 45 CY 30 CY



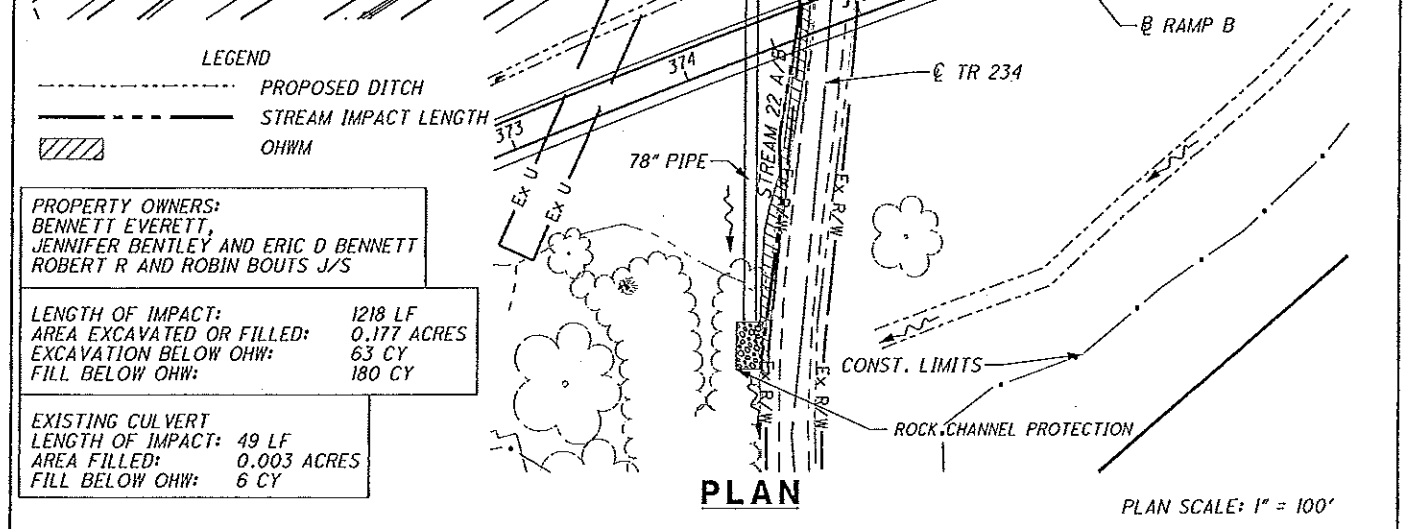
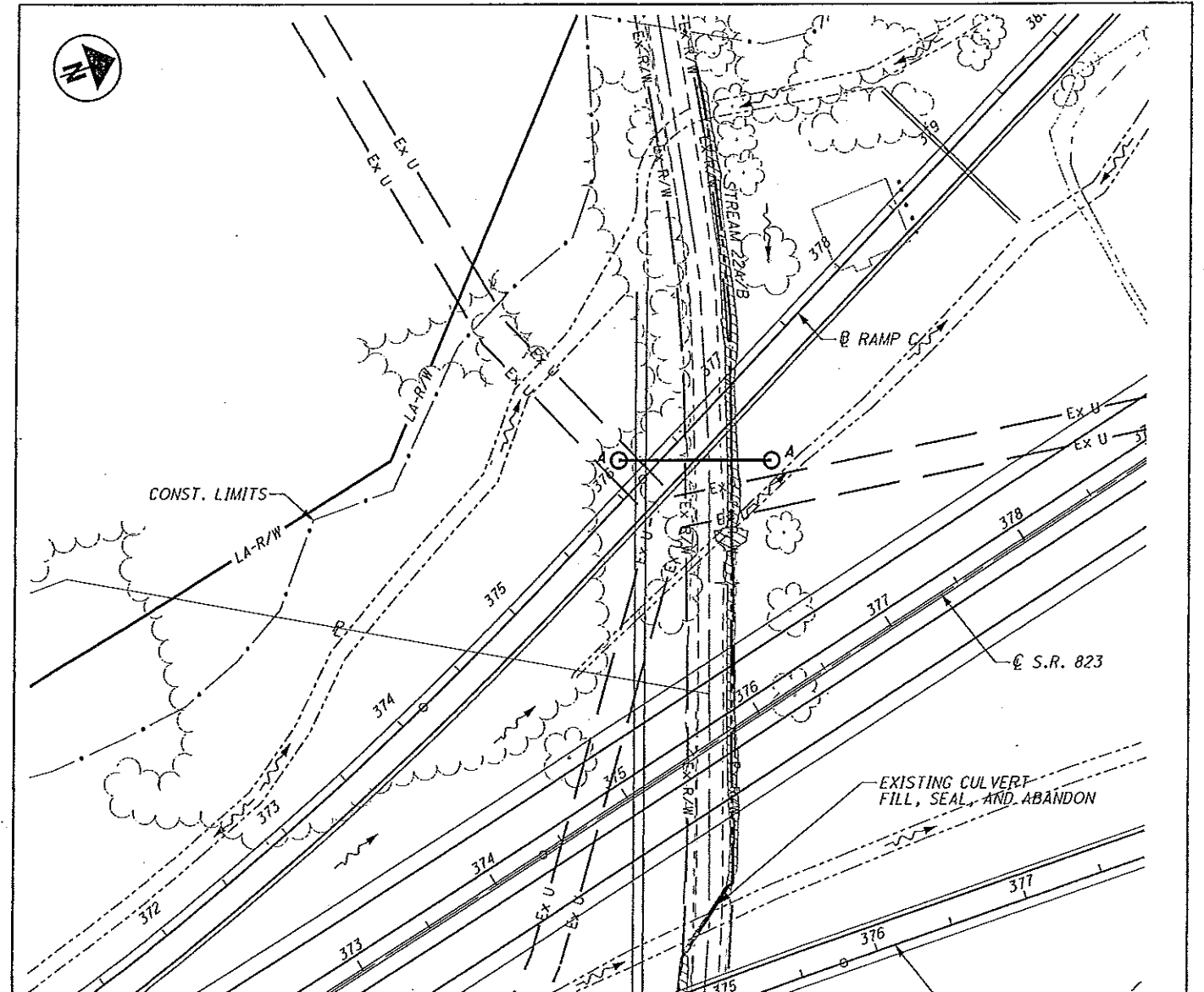
**IMPACTS AT
STREAM 21A**


OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

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Water Quality
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FIGURE 3-15





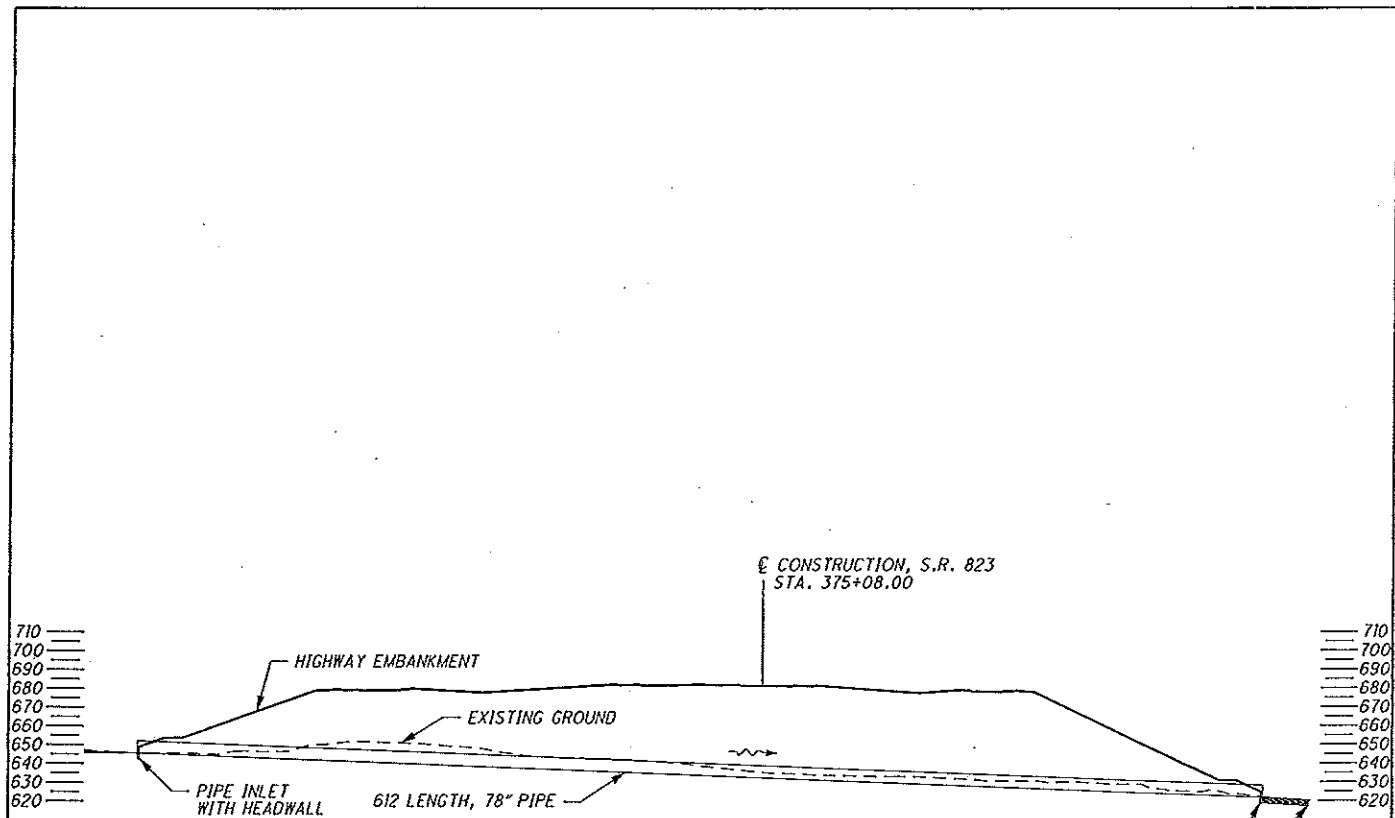
**IMPACTS AT
STREAM 22 A/B
DOWNSTREAM**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

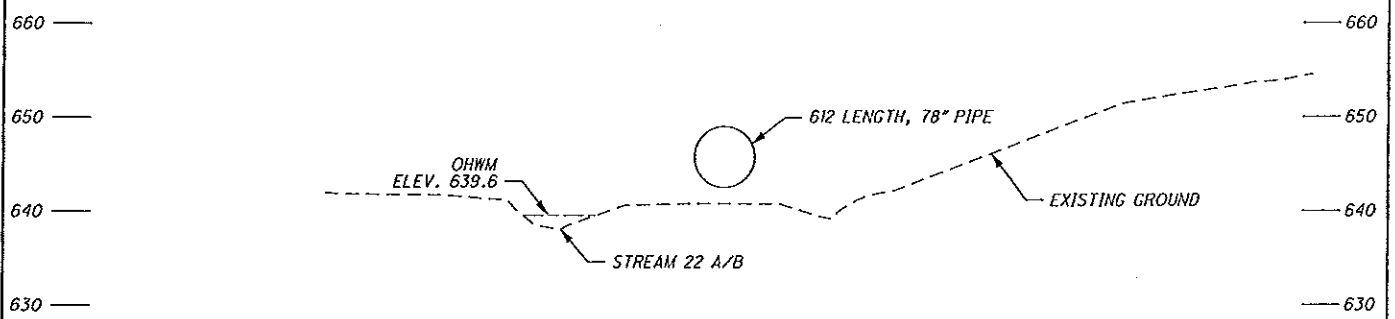
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

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FIGURE 3-16

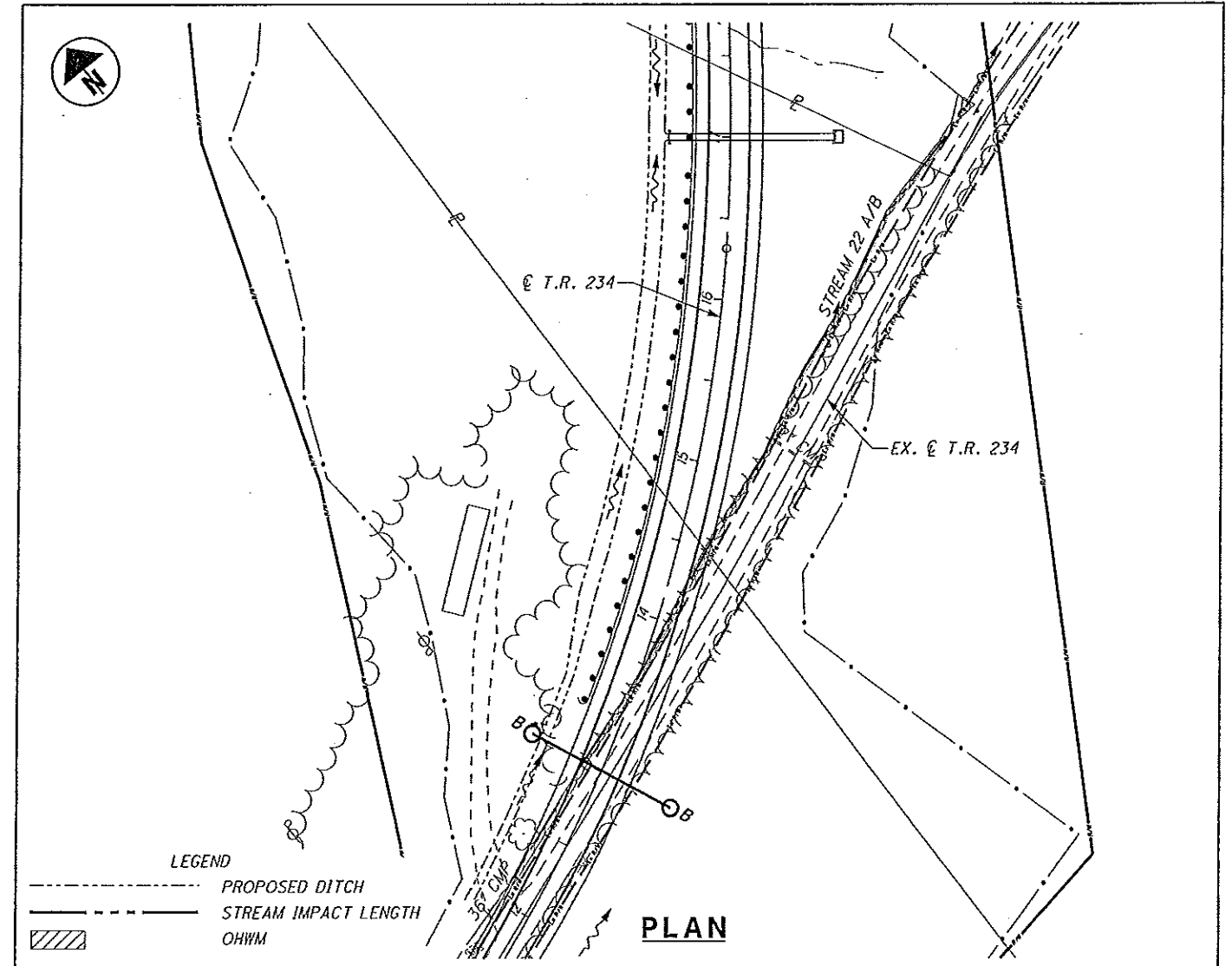


CULVERT PROFILE

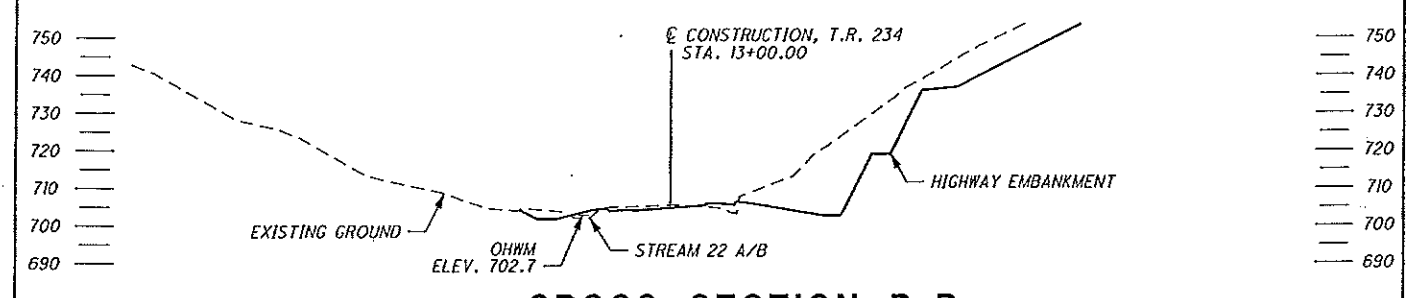


CROSS SECTION A-A

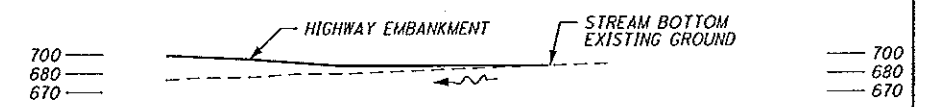
CULVERT PROFILE: 1" = 100'
CROSS SECTION: 1" = 20'



PLAN



CROSS SECTION B-B



STREAM 22 A/B PROFILE

PROPERTY OWNERS:
ROBERT LEE AND STELLA FAULKNER J/S
ROBERT R AND ROBIN BOUTS J/S

PLAN SCALE: 1" = 100'
CROSS SECTION: 1" = 50'
STREAM PROFILE: 1" = 100'



**IMPACTS AT
STREAM 22A/B**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

U.S. Army Corps of
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and OEPA Section 401
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**FIGURE
3-16A**

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**IMPACTS AT
STREAM 22 A/B
UPSTREAM**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

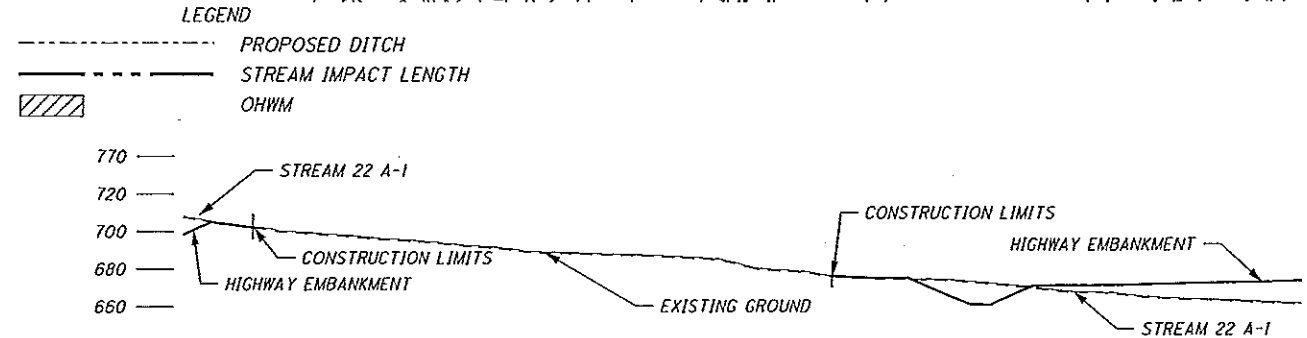
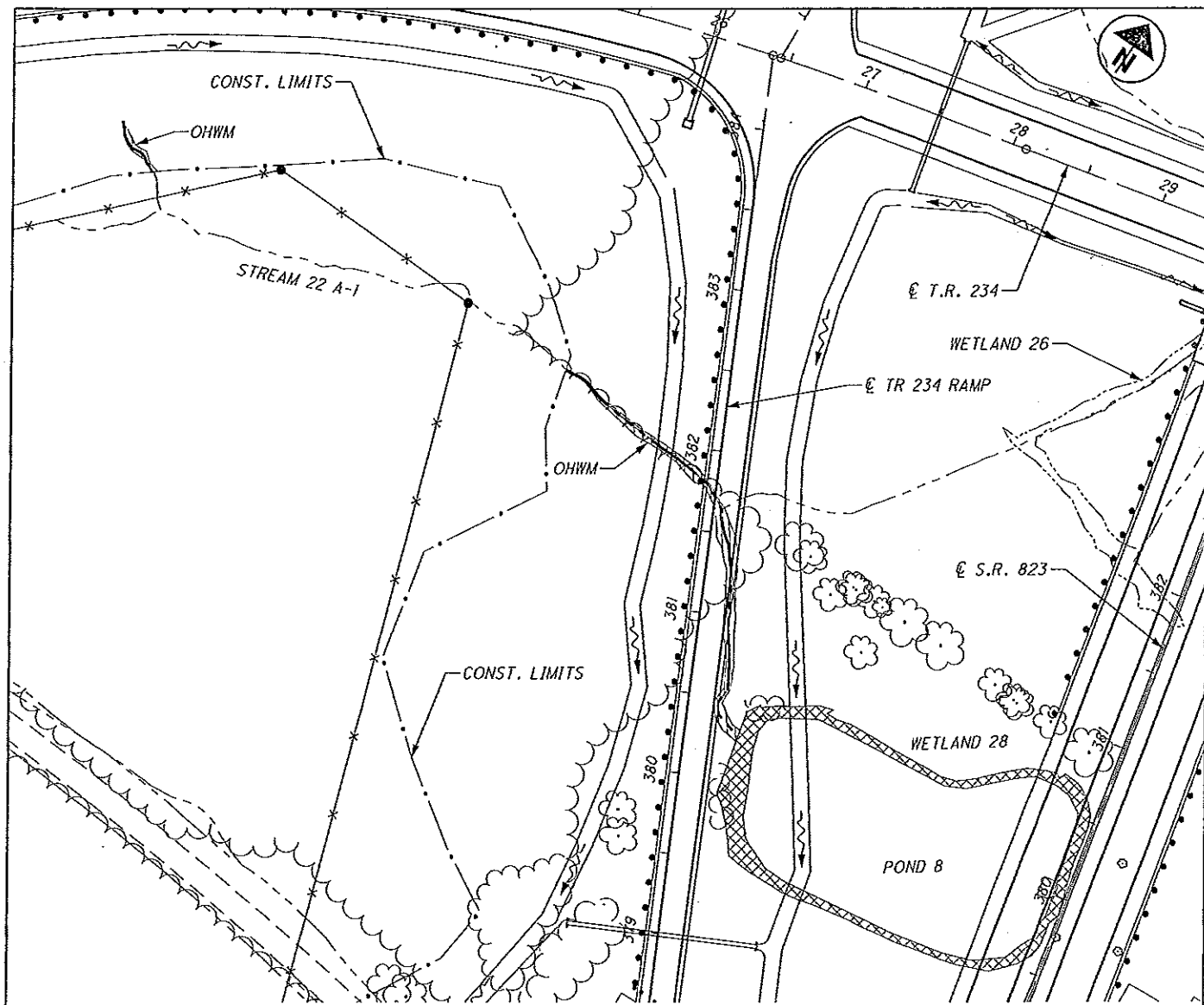
U.S. Army Corps of
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Certification
Application

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**FIGURE
3-16B**

2011-00646-OHR, SCI-823-0.00, PID: 19415

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STREAM PROFILE

LENGTH OF IMPACT:	318 LF	PROPERTY OWNERS:	STATE OF OHIO
AREA EXCAVATED OR FILLED:	0.036 ACRES		ROBERT R AND ROBIN BOUTS
EXCAVATION BELOW OHW:	94 CY		
FILL BELOW OHW:	15 CY		

PLAN SCALE: 1" = 100'
STREAM PROFILE: 1" = 50'



**IMPACTS AT
STREAM 22 A-1**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

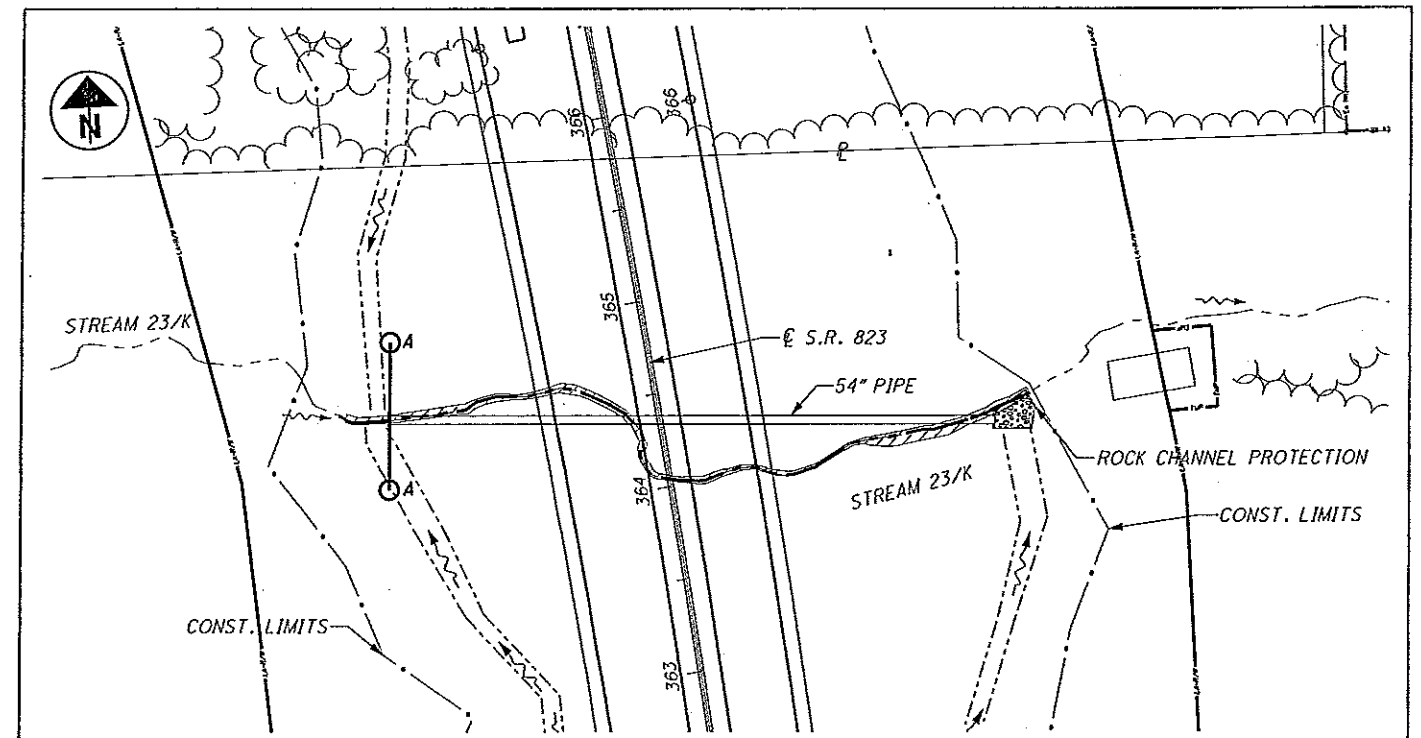
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

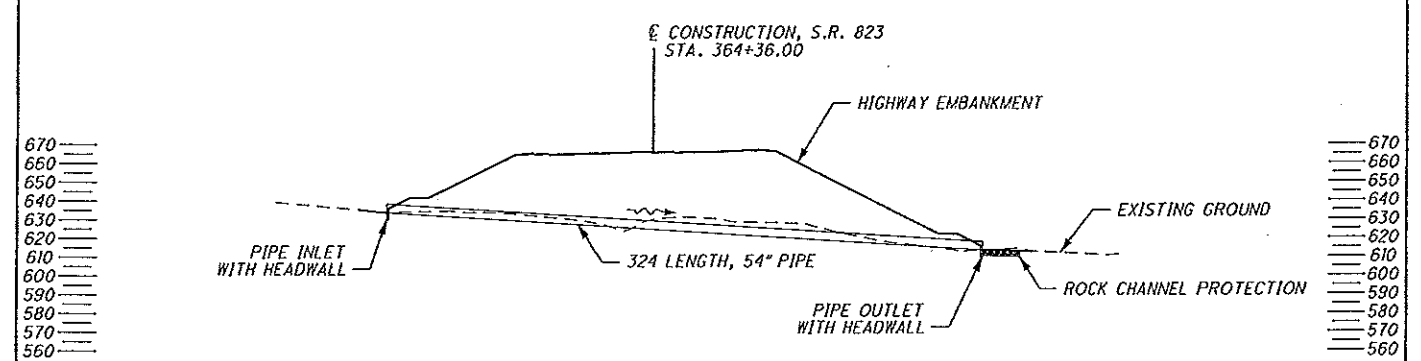
FIGURE 3-17

2011-00646-OHR, SCI-823-0.00, PID: 19415

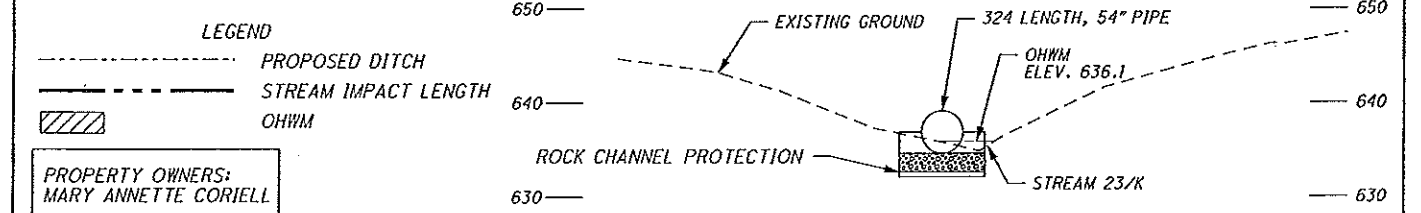
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PLAN



CULVERT PROFILE

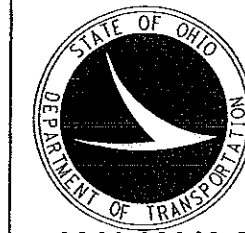


CROSS SECTION A-A

PROPERTY OWNERS:
MARY ANNETTE CORIELL

LENGTH OF IMPACT:	415 LF
AREA EXCAVATED OR FILLED:	0.048 ACRES
EXCAVATION BELOW OHW:	23 CY
FILL BELOW OHW:	75 CY

PLAN SCALE: 1" = 100'
CULVERT PROFILE: 1" = 100'
CROSS SECTION: 1" = 20'



**IMPACTS AT
STREAM 23/K**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

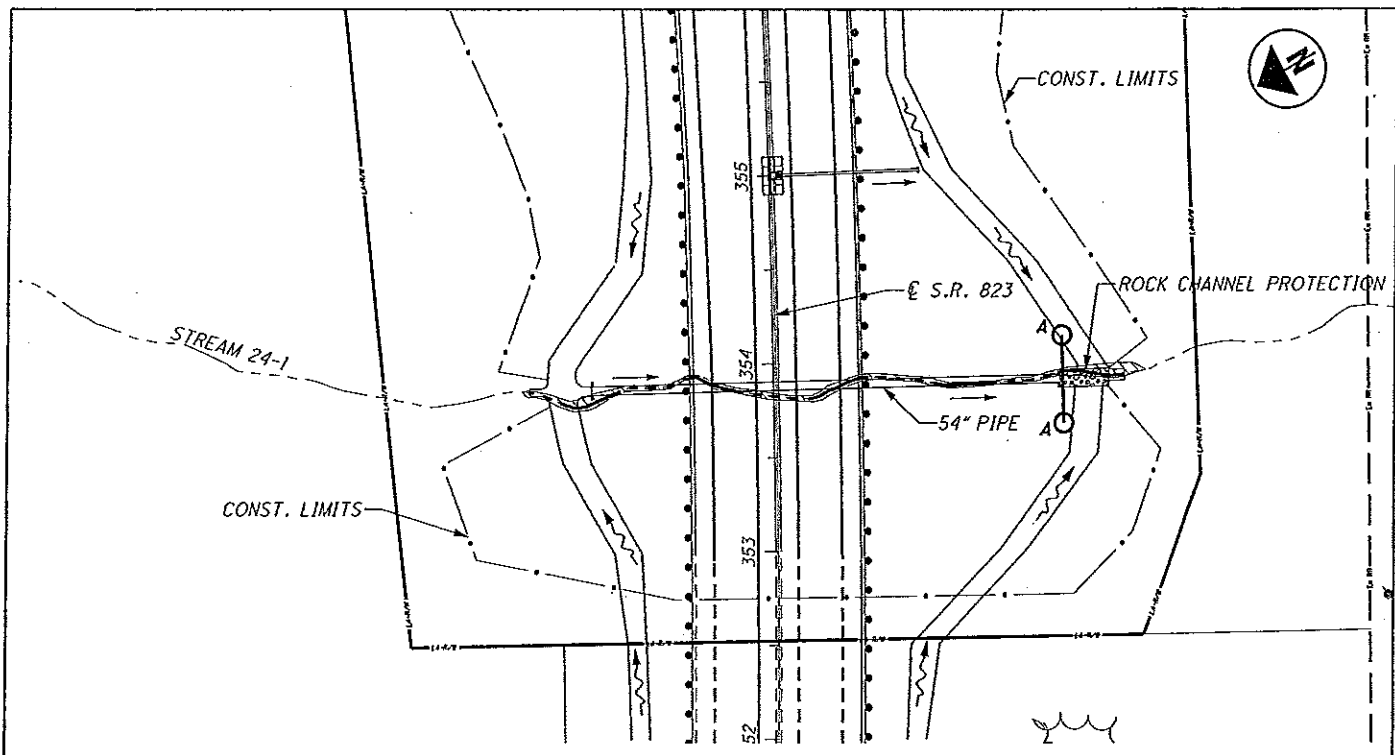
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

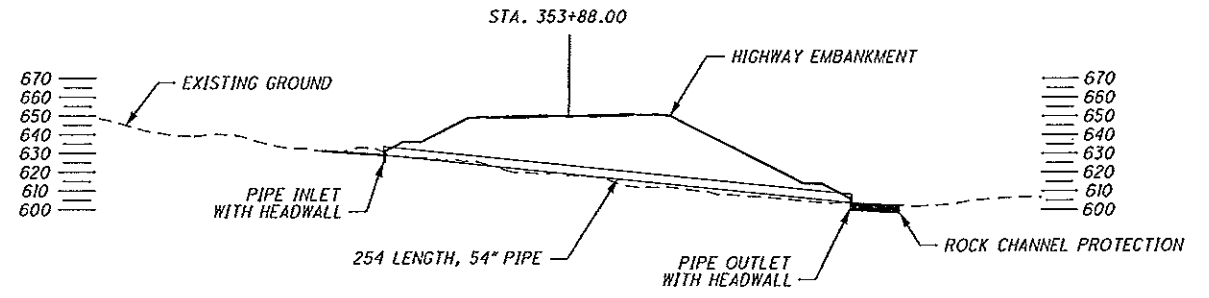
FIGURE 3-18

2011-00646-OHR, SCI-823-0.00, PID: 19415

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PLAN

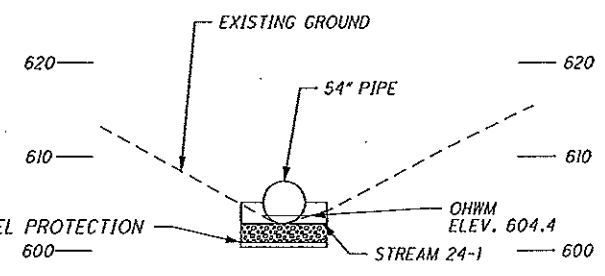


CULVERT PROFILE

- LEGEND**
- PROPOSED DITCH
 - - - - - STREAM IMPACT LENGTH
 - ▨ OHWM

PROPERTY OWNERS:
VICTOR D AND ELSIE A KNORE J/S

LENGTH OF IMPACT: 333 LF
 AREA EXCAVATED OR FILLED: 0.081 ACRES
 EXCAVATION BELOW OHW: 47 CY
 FILL BELOW OHW: 32 CY



CROSS SECTION A-A

PLAN SCALE: 1" = 100'
 CULVERT PROFILE: 1" = 100'
 CROSS SECTION: 1" = 20'



**IMPACTS AT
STREAM 24-1**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

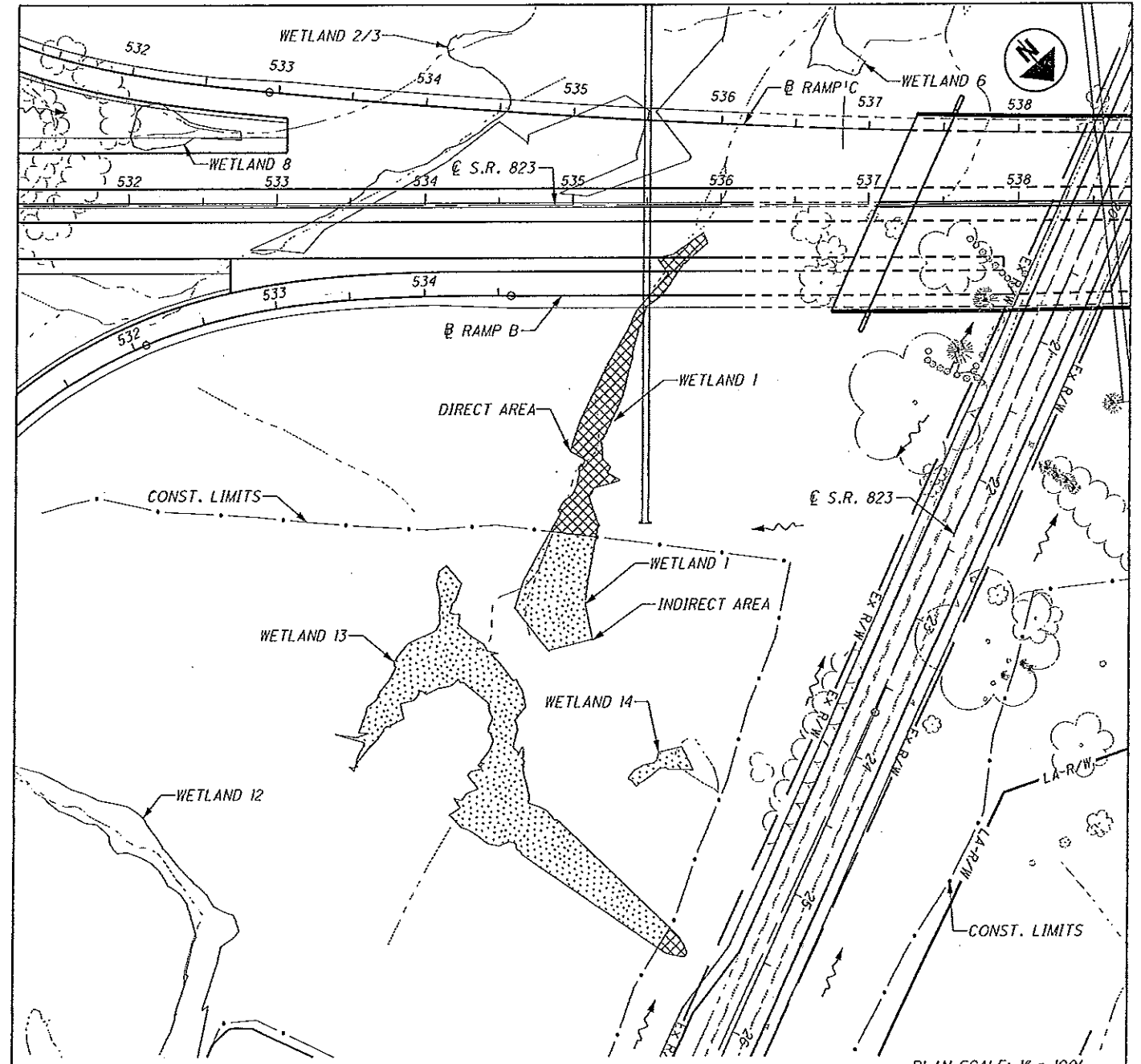
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
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FIGURE 3-19

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PLAN

PLAN SCALE: 1" = 100'

- LEGEND**
- ▨ DIRECT AREA
 - ▤ INDIRECT AREA

PROPERTY OWNERS:
STATE OF OHIO

WETLAND 1

LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.072 ACRES
 FILL BELOW OHW: 115 CY
 INDIRECT IMPACT AREA: 0.069 ACRES

WETLAND 13

LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.005 ACRES
 FILL BELOW OHW: 8 CY
 INDIRECT IMPACT AREA: 0.228 ACRES

WETLAND 14

LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.000 ACRES
 FILL BELOW OHW: 0 CY
 INDIRECT IMPACT AREA: 0.010 ACRES



**IMPACT AT
WETLANDS 1, 13
AND 14**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

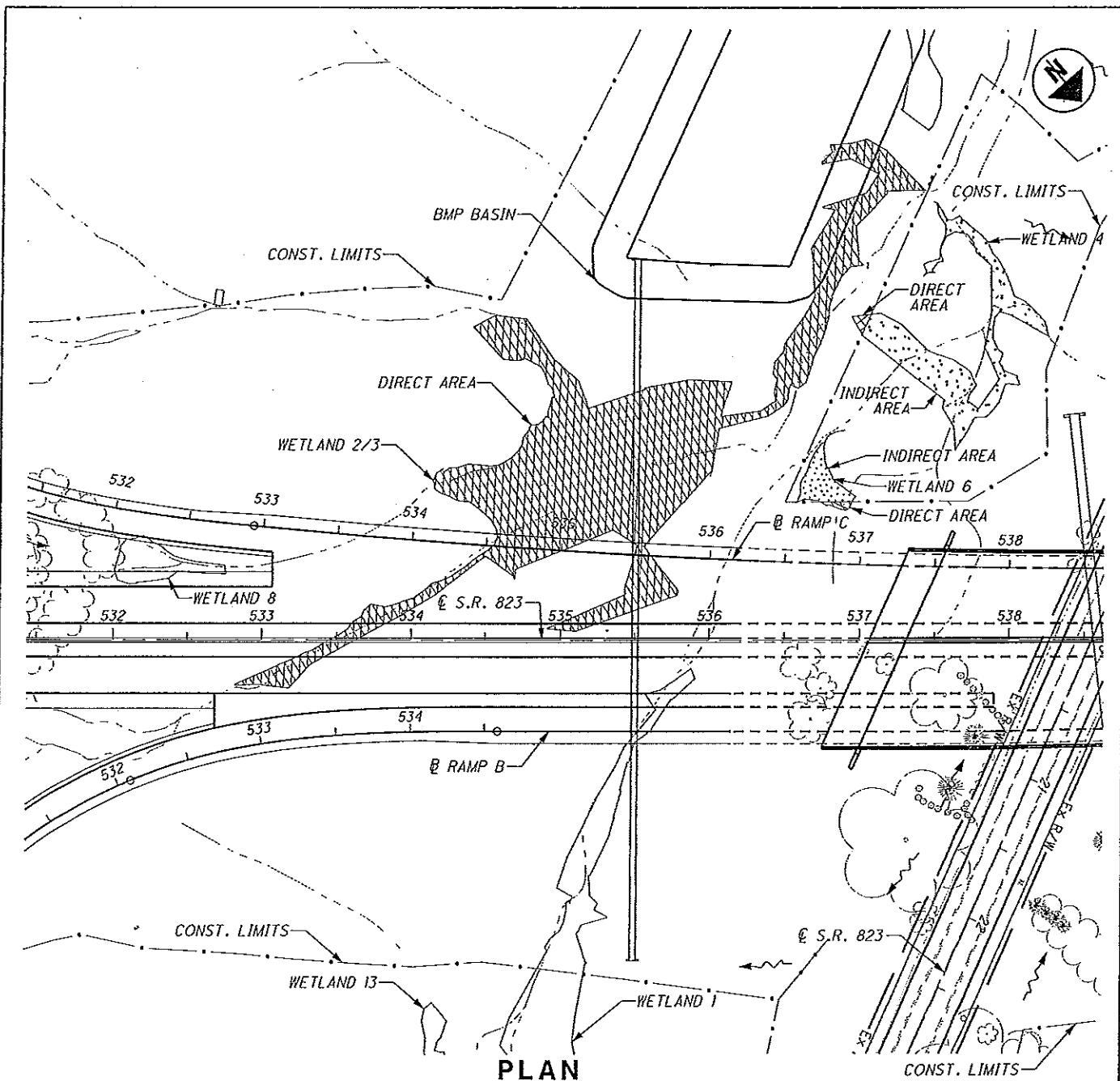
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
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FIGURE 3-20

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PLAN

WETLAND 6

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.002 ACRES
FILL BELOW OHW: 3 CY
INDIRECT IMPACT AREA: 0.016 ACRES

LEGEND
 DIRECT AREA
 INDIRECT AREA

WETLAND 2/3
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.517 ACRES
 FILL BELOW OHW: 834 CY
 INDIRECT IMPACT AREA: 0.00 ACRES

WETLAND 4
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.002 ACRES
 FILL BELOW OHW: 3 CY
 INDIRECT IMPACT AREA: 0.087 ACRES



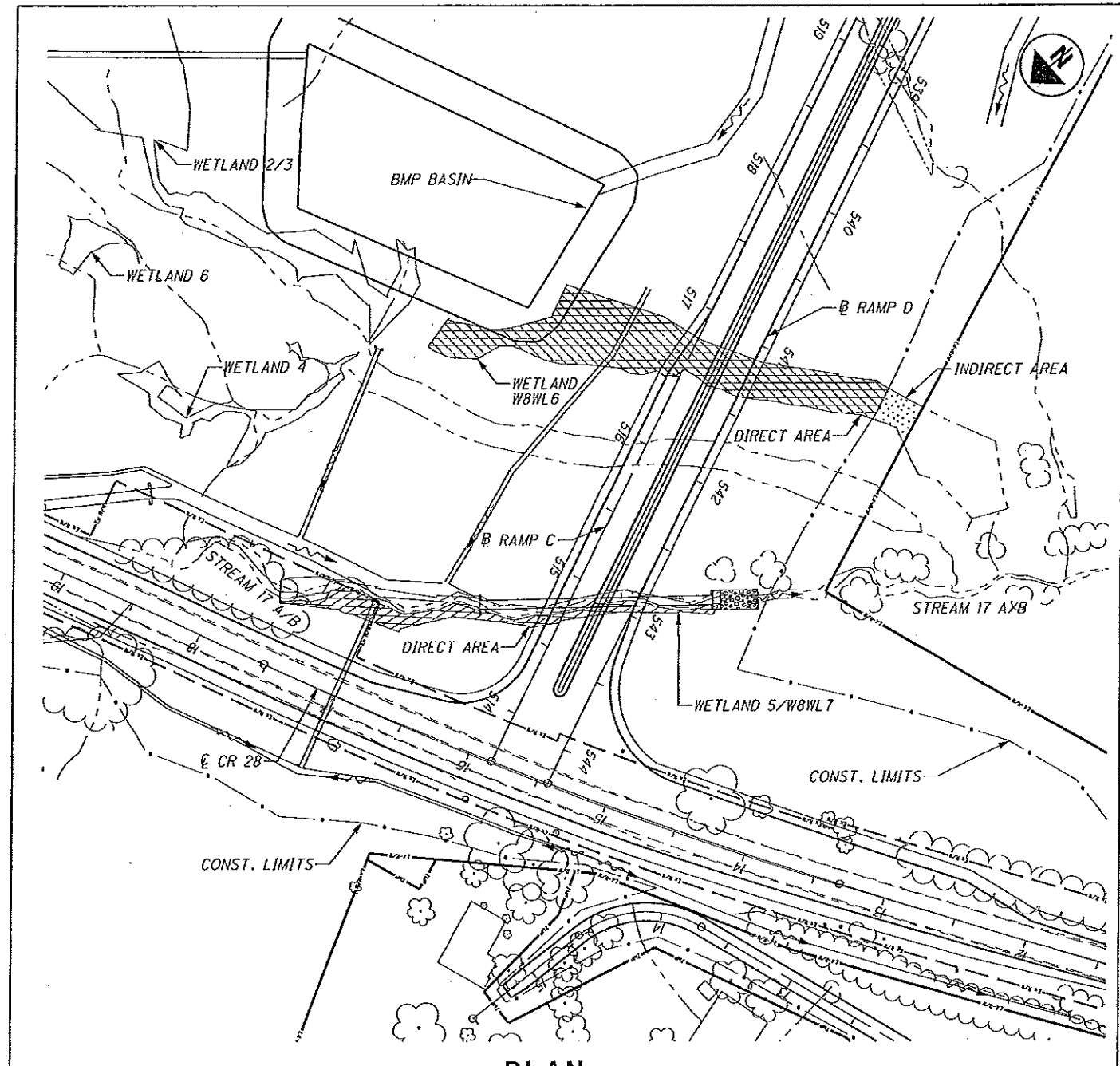
IMPACTS AT WETLANDS 2/3, 4 AND 6

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

U.S. Army Corps of Engineers 404 Permit and OSPA Section 401 Water Quality Certification Application

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FIGURE 3-21



PLAN

PLAN SCALE: 1" = 100'

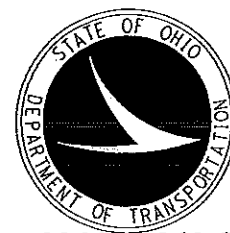
PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.207 ACRES
FILL BELOW OHW: 334 CY
INDIRECT IMPACT AREA: 0.014 ACRES

LEGEND
 DIRECT AREA
 INDIRECT AREA

W8WL6
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.207 ACRES
 FILL BELOW OHW: 334 CY
 INDIRECT IMPACT AREA: 0.014 ACRES

WETLAND 5 / W8WL7
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.066 ACRES
 FILL BELOW OHW: 107 CY
 INDIRECT IMPACT AREA: 0.0 ACRES



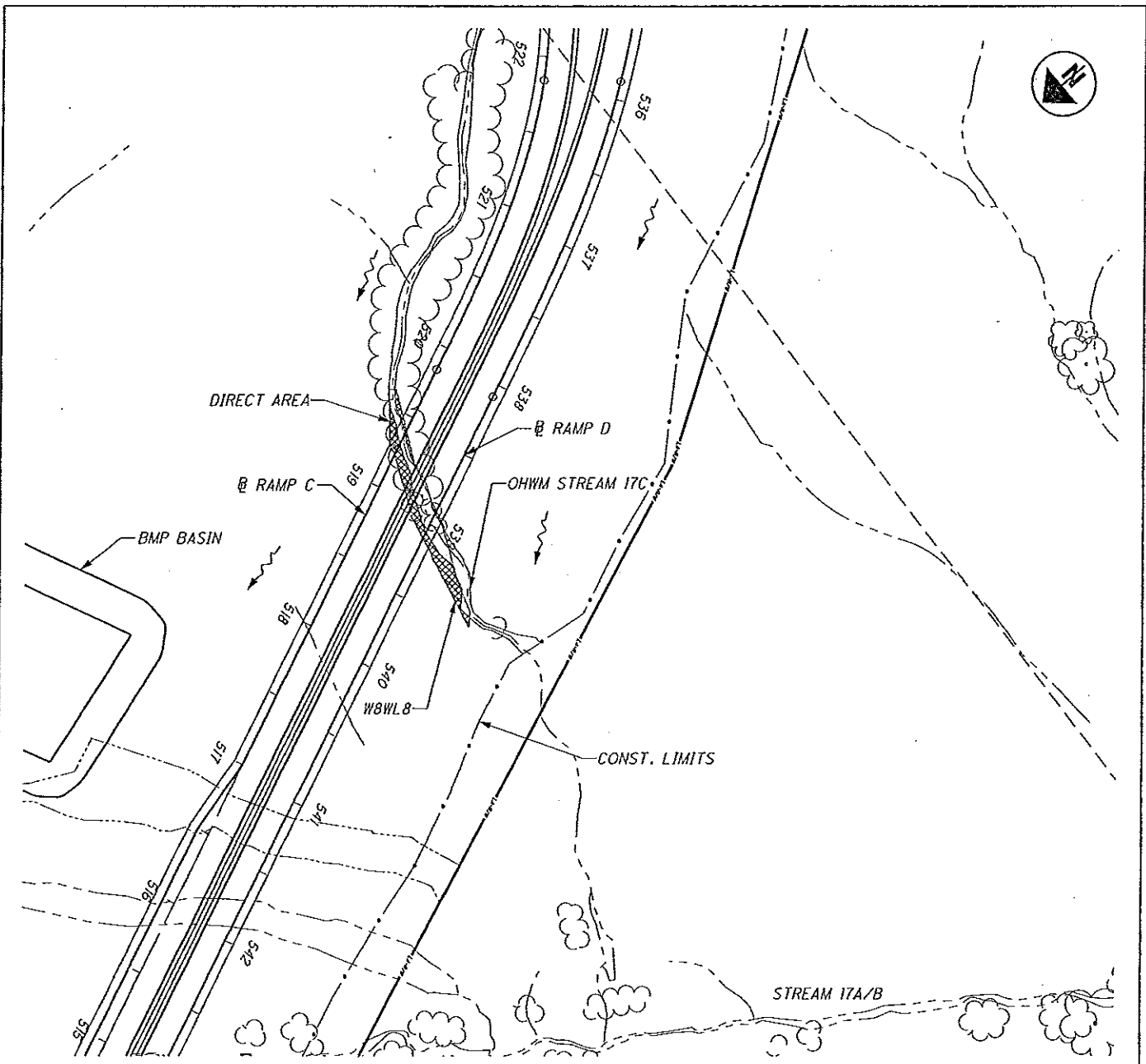
IMPACTS AT WETLAND 5 / W8WL7 AND W8WL6

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

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FIGURE 3-22



PLAN

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.020 ACRES
FILL BELOW OHW: 32 CY
INDIRECT IMPACT AREA: 0.000 ACRES

LEGEND

DIRECT AREA

INDIRECT AREA



**IMPACTS AT
WETLAND
W8WL8**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

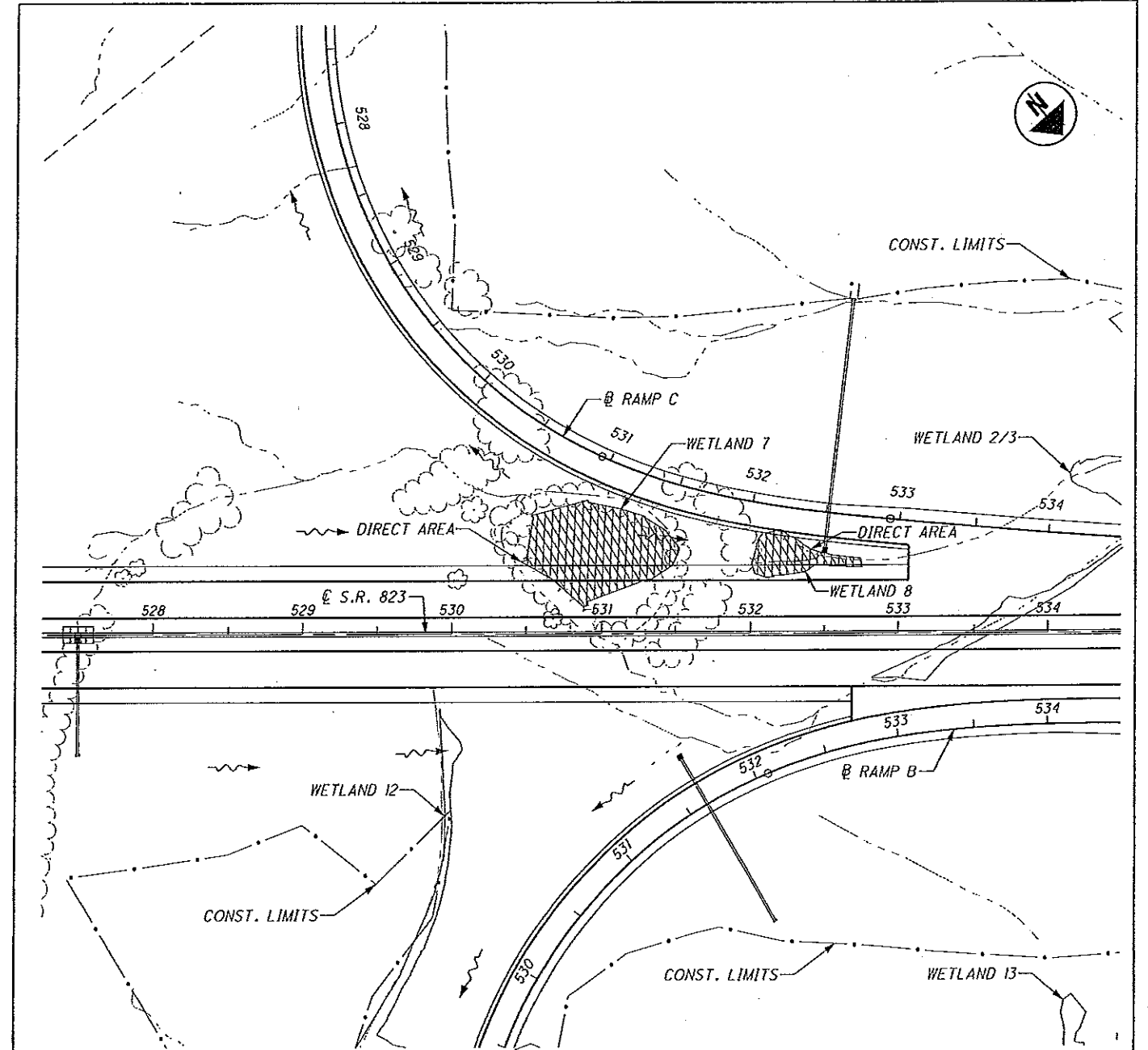
U.S. Army Corps of
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FIGURE 3-23

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PLAN

PLAN SCALE: 1" = 100'

WETLAND 7

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.108 ACRES
FILL BELOW OHW: 174 CY
INDIRECT IMPACT AREA: 0.00 ACRES

PROPERTY OWNERS:
STATE OF OHIO

WETLAND 8

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.028 ACRES
FILL BELOW OHW: 45 CY
INDIRECT IMPACT AREA: 0.00 ACRES

LEGEND

DIRECT AREA

INDIRECT AREA



**IMPACTS AT
WETLANDS
7 AND 8**

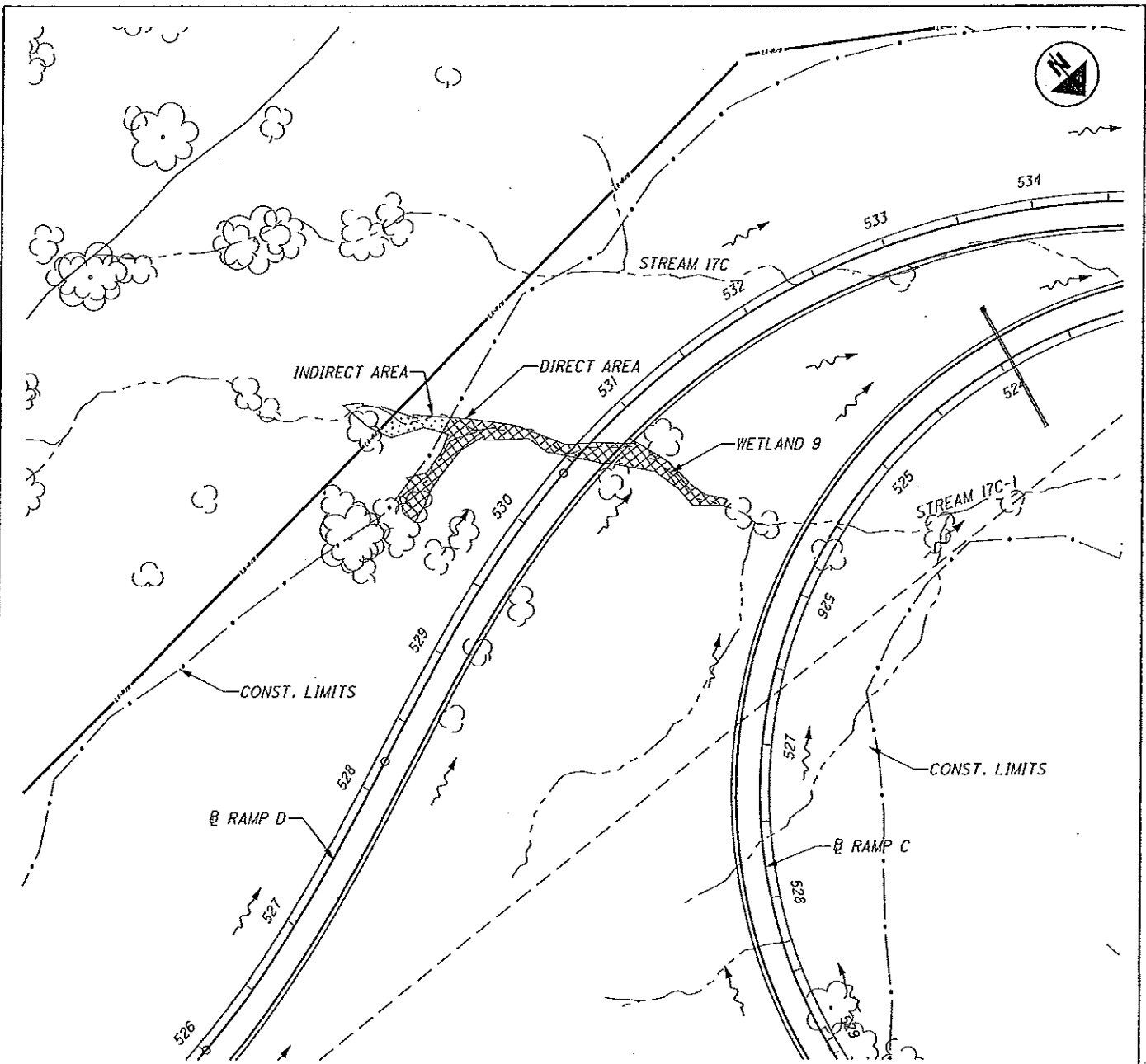
U.S. Army Corps of
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FIGURE 3-24

2011-00646-OHR, SCI-823-0.00, PID: 19415

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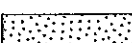


PLAN

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.063 ACRES
FILL BELOW OHW: 102 CY
INDIRECT IMPACT AREA: 0.010 ACRES

LEGEND
 DIRECT AREA
 INDIRECT AREA



IMPACTS AT WETLAND 9

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

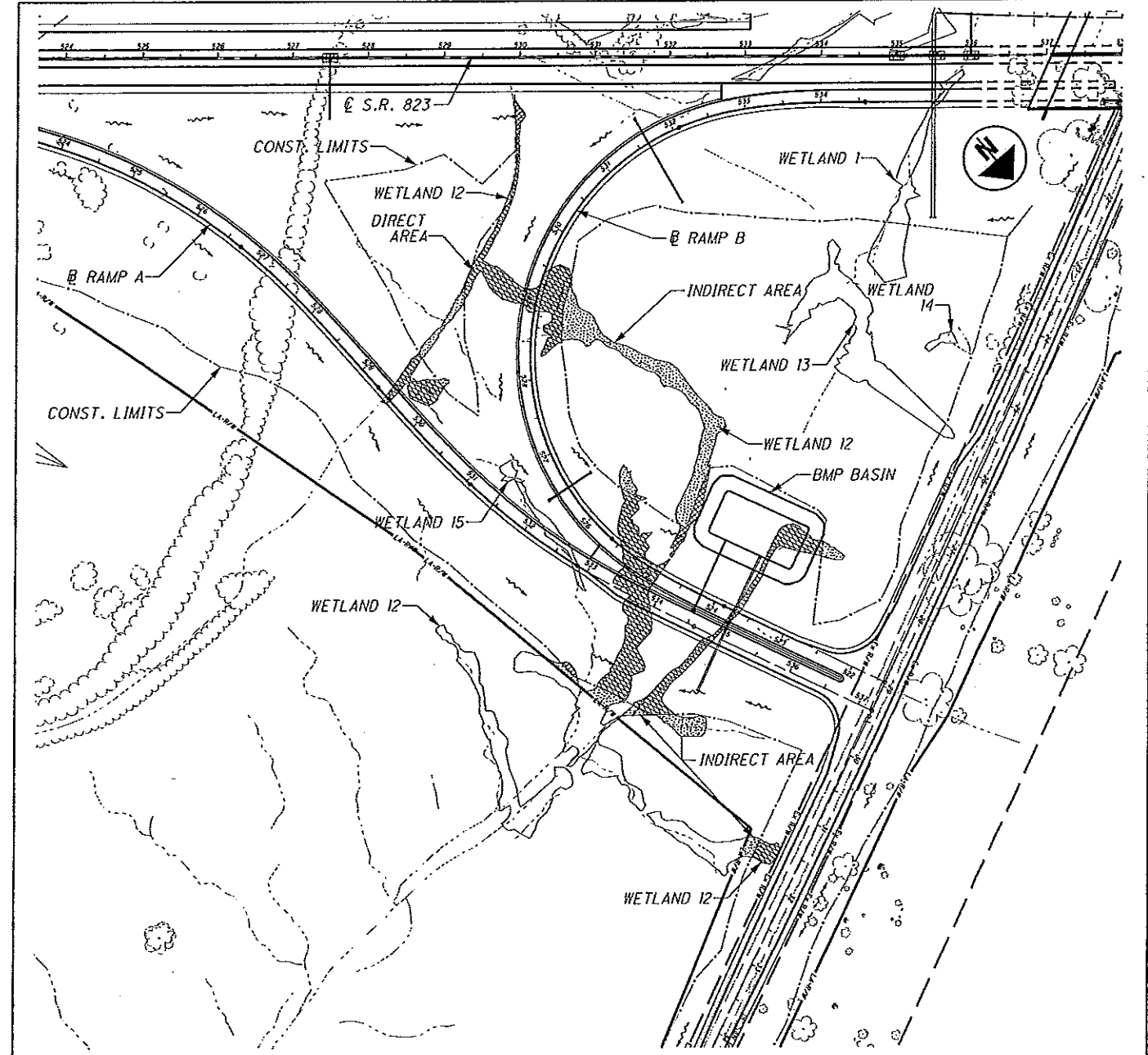
2011-00646-OHR, SCI-823-0.00, PID: 19415

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FIGURE 3-25





PLAN

PLAN SCALE: 1" = 200'

PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.528 ACRES
FILL BELOW OHW: 852 CY
INDIRECT IMPACT AREA: 0.283 ACRES

LEGEND
 DIRECT AREA
 INDIRECT AREA



IMPACTS AT WETLAND 12

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

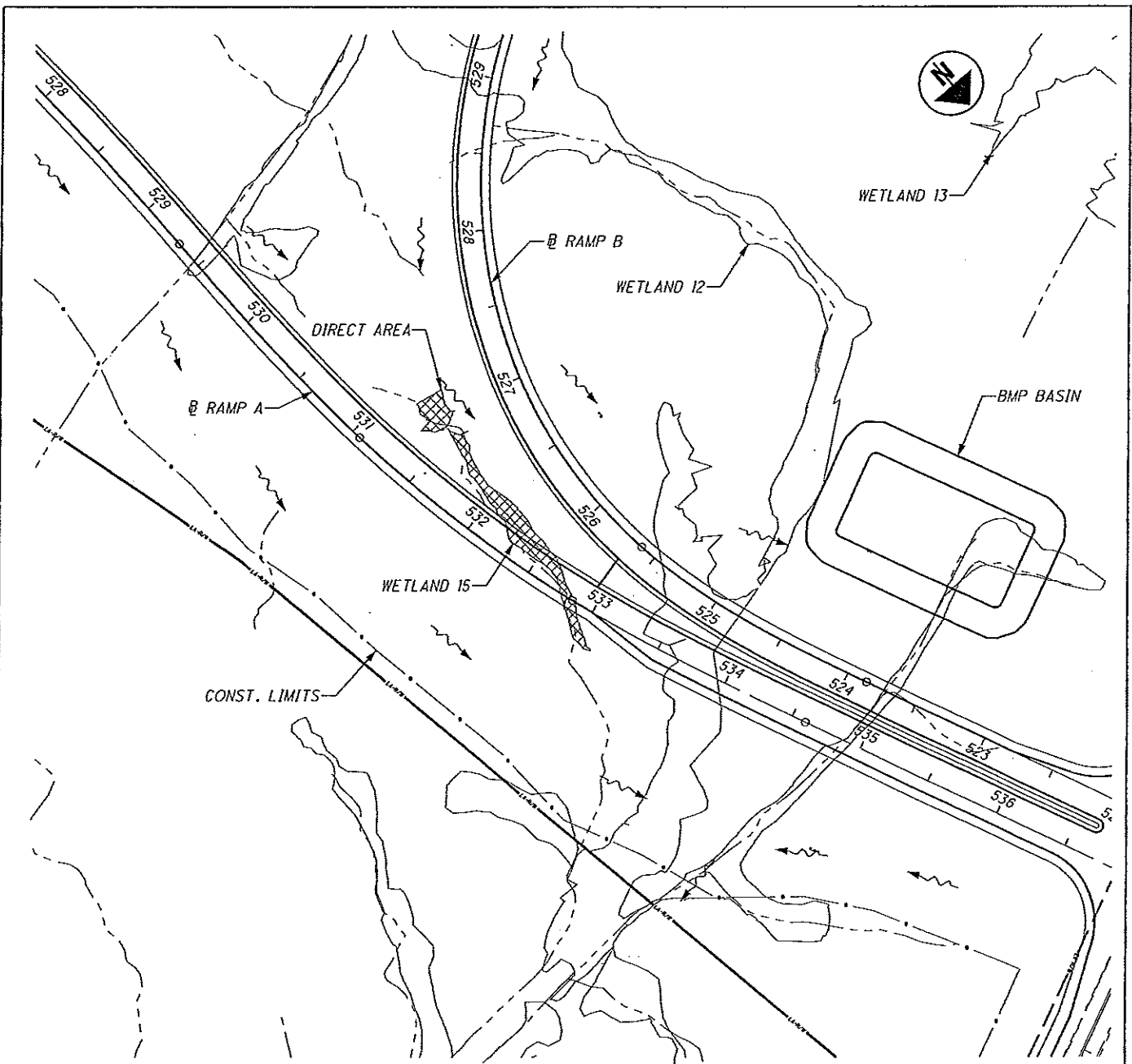
2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 43 of 70 (Phase 1 Portsmouth Bypass)

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

DATE: 09/13/2011

FIGURE 3-26



PLAN

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.041 ACRES
FILL BELOW OHW: 65 CY
INDIRECT IMPACT AREA: 0.00 ACRES

LEGEND
 DIRECT AREA
 INDIRECT AREA



IMPACTS AT WETLAND 15

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

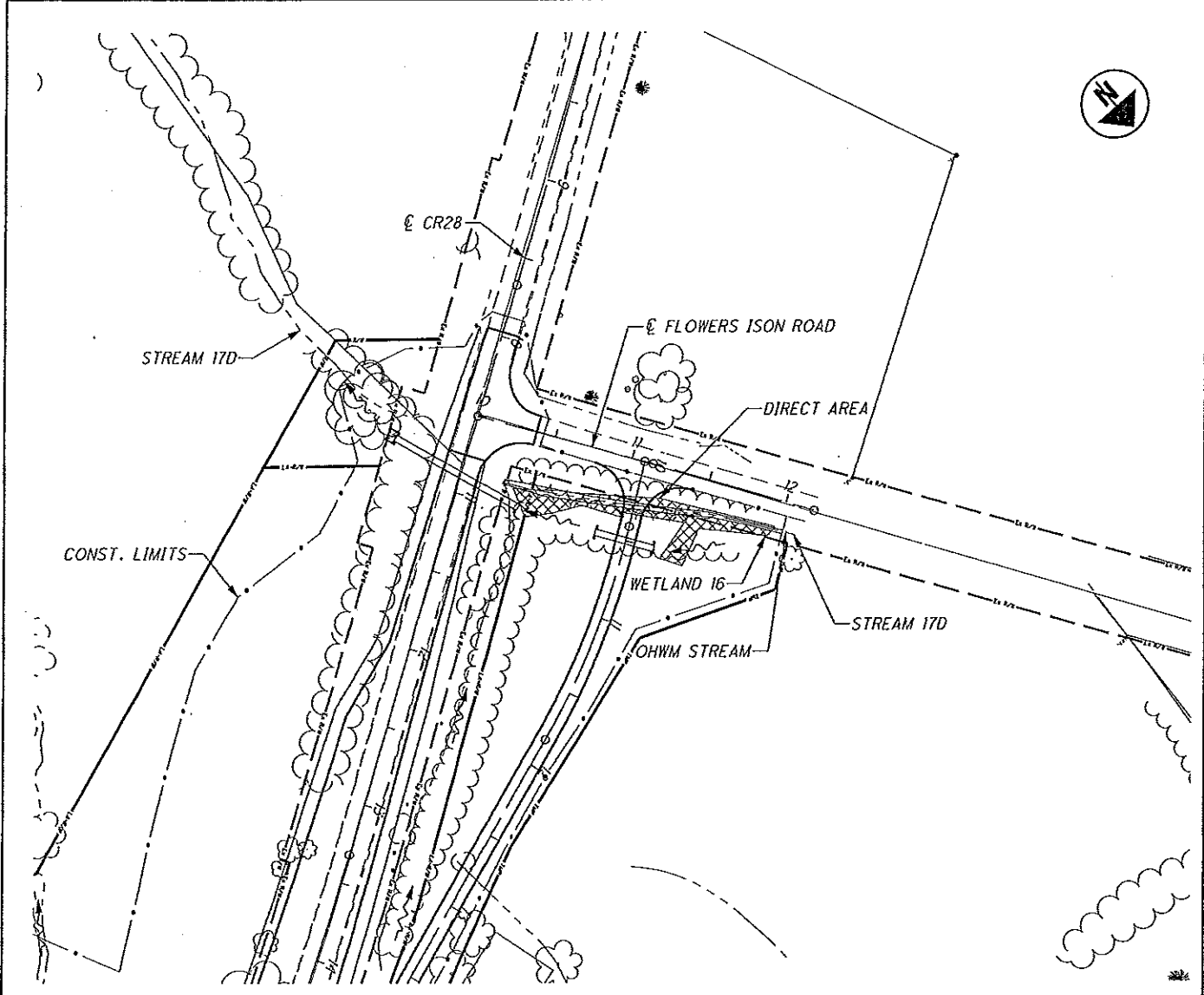
U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

DATE: 09/13/2011

FIGURE 3-27

2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 44 of 70 (Phase 1 Portsmouth Bypass)



PLAN

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
STATE OF OHIO
ANGELA SUE YEAGLE

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.036 ACRES
FILL BELOW OHW: 58 CY
CUT BELOW OHW: 22 CY
INDIRECT IMPACT AREA: 0.00 ACRES

LEGEND
 DIRECT AREA
 INDIRECT AREA



IMPACTS AT WETLAND 16

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

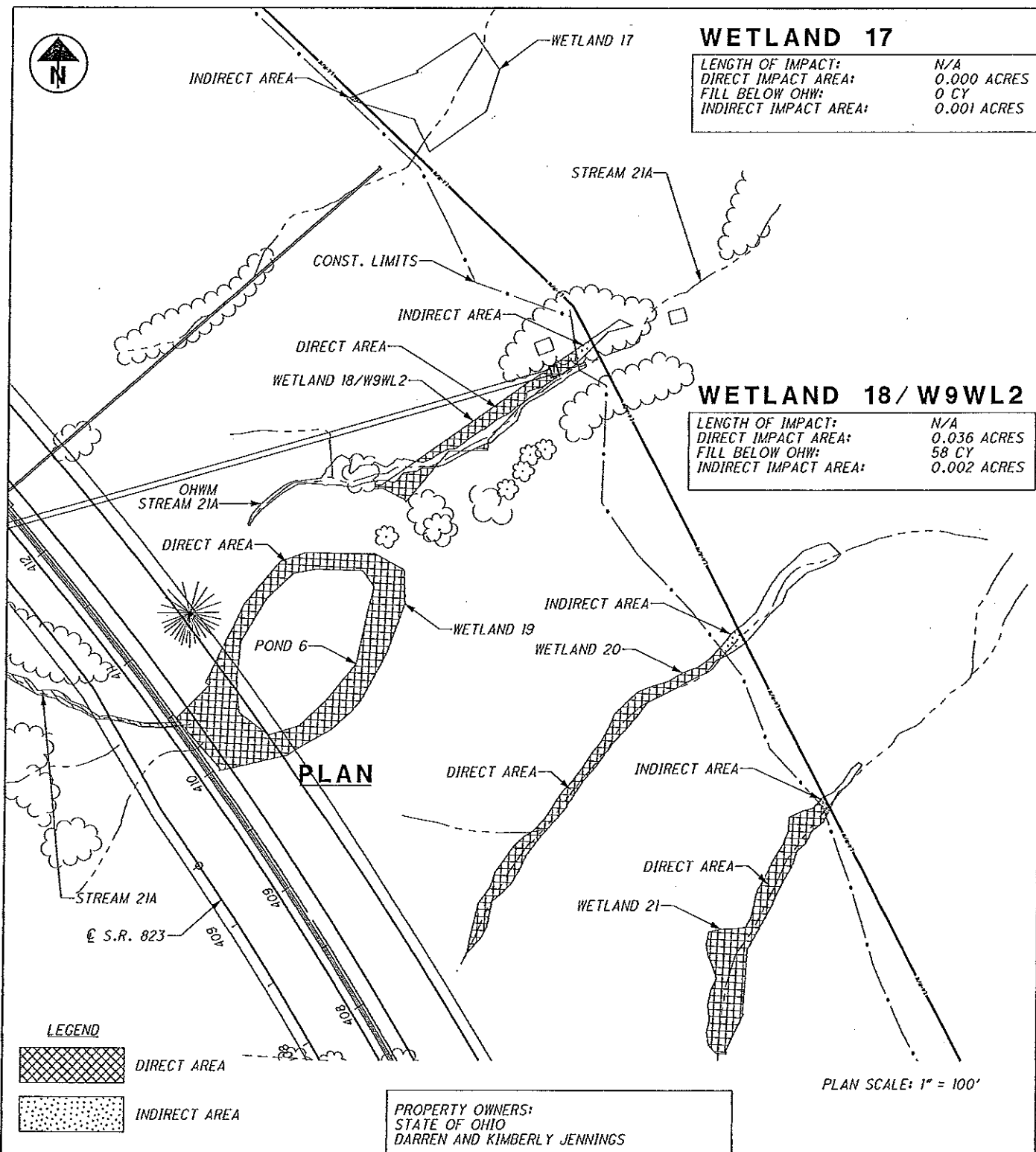
U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

DATE: 09/13/2011

FIGURE 3-28

2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 45 of 70 (Phase 1 Portsmouth Bypass)




WETLAND 17

LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.000 ACRES
FILL BELOW OHW:	0 CY
INDIRECT IMPACT AREA:	0.001 ACRES

WETLAND 18/ W9WL2

LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.036 ACRES
FILL BELOW OHW:	58 CY
INDIRECT IMPACT AREA:	0.002 ACRES

WETLAND 19	WETLAND 20	WETLAND 21
LENGTH OF IMPACT: N/A	LENGTH OF IMPACT: N/A	LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.180 ACRES	DIRECT IMPACT AREA: 0.058 ACRES	DIRECT IMPACT AREA: 0.081 ACRES
FILL BELOW OHW: 290 CY	FILL BELOW OHW: 93 CY	FILL BELOW OHW: 130 CY
INDIRECT IMPACT AREA: 0.000 ACRES	INDIRECT IMPACT AREA: 0.004 ACRES	INDIRECT IMPACT AREA: 0.001 ACRES



**IMPACTS AT
WETLAND 17, 18/ W9WL2,
19, 20 AND 21**

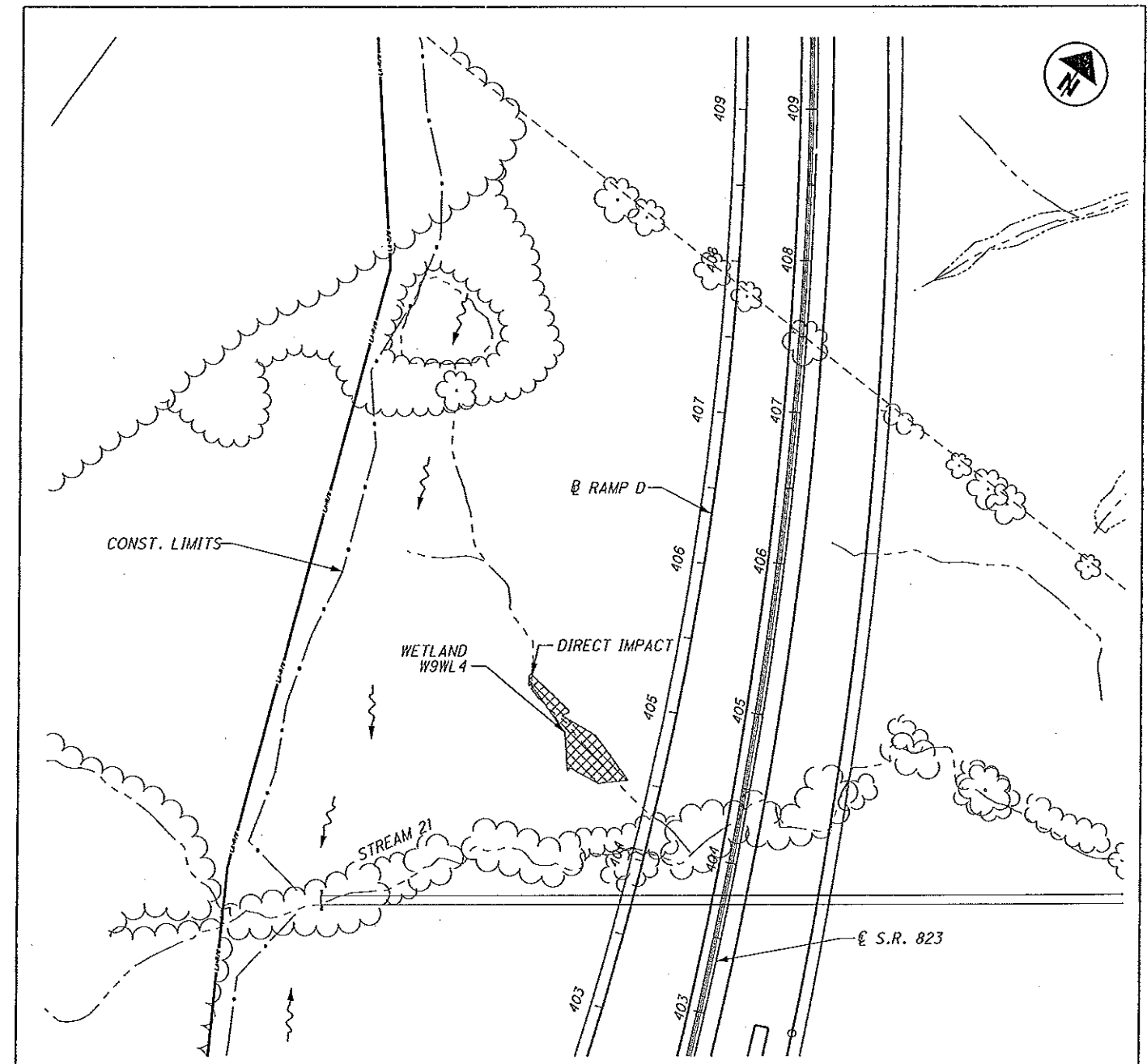
OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

2011-00646-OHR, SCI-823-0.00, PID: 19415

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application


DATE: 09/13/2011

FIGURE 3-29



PROPERTY OWNERS:
MCKENZIE GERTRUDE B TRUSTEE
GERTRUDE B MCKENZIE REVOCABLE TRUST

LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.029 ACRES
FILL BELOW OHW:	47 CY
INDIRECT IMPACT AREA:	0.00 ACRES



**IMPACTS AT
WETLAND
W9WL4**

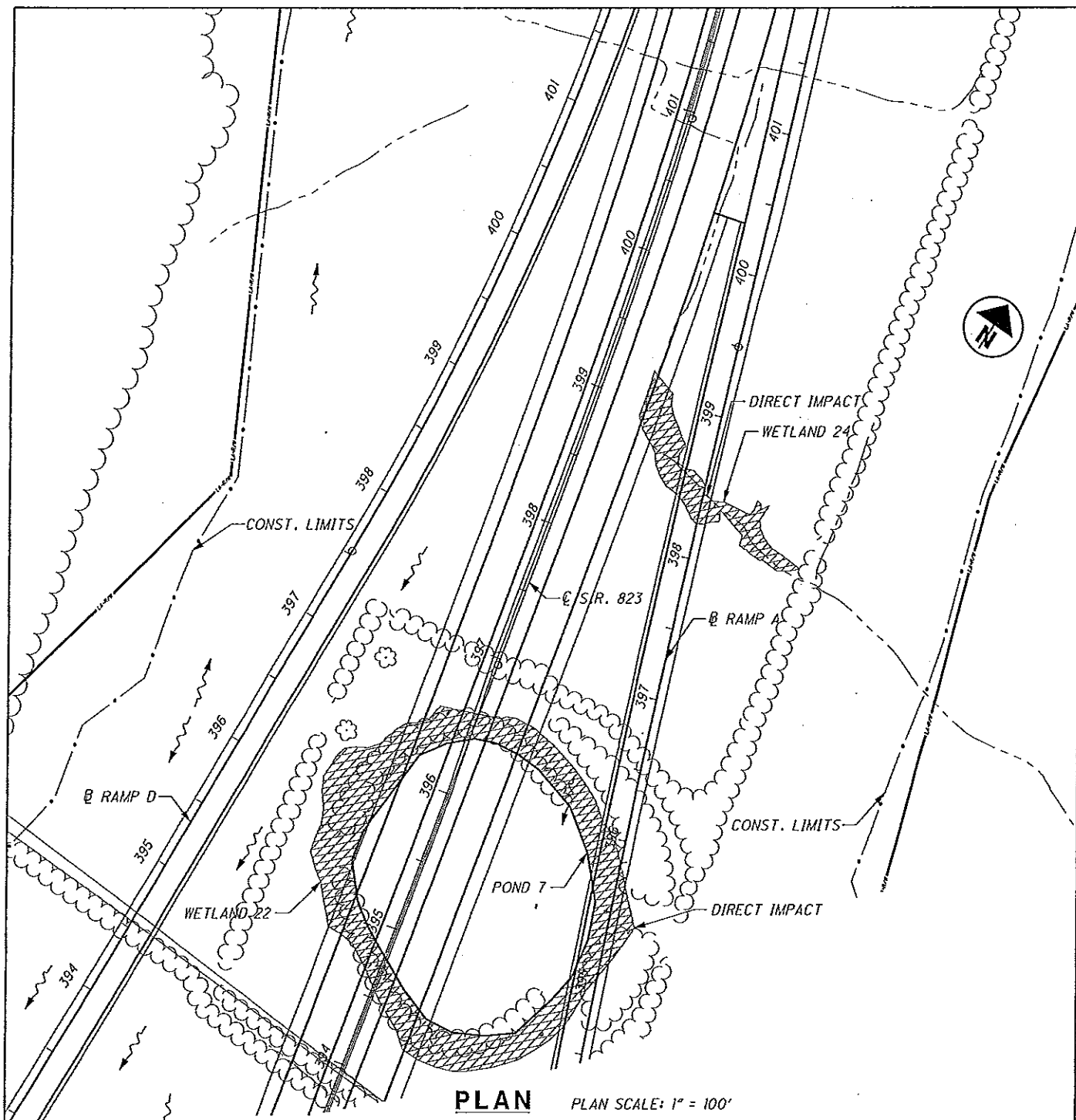
OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

2011-00646-OHR, SCI-823-0.00, PID: 19415

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

DATE: 09/13/2011

FIGURE 3-30



PLAN PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
GERTRUDE B MCKENZIE

WETLAND 22		WETLAND 24	
LENGTH OF IMPACT:	N/A	LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.344 ACRES	DIRECT IMPACT AREA:	0.069 ACRES
FILL BELOW OHW:	555 CY	FILL BELOW OHW:	112 CY
INDIRECT IMPACT AREA:	0.00 ACRES	INDIRECT IMPACT AREA:	0.00 ACRES

LEGEND

	DIRECT AREA
	INDIRECT AREA



**IMPACT AT
WETLANDS 22 AND 24**

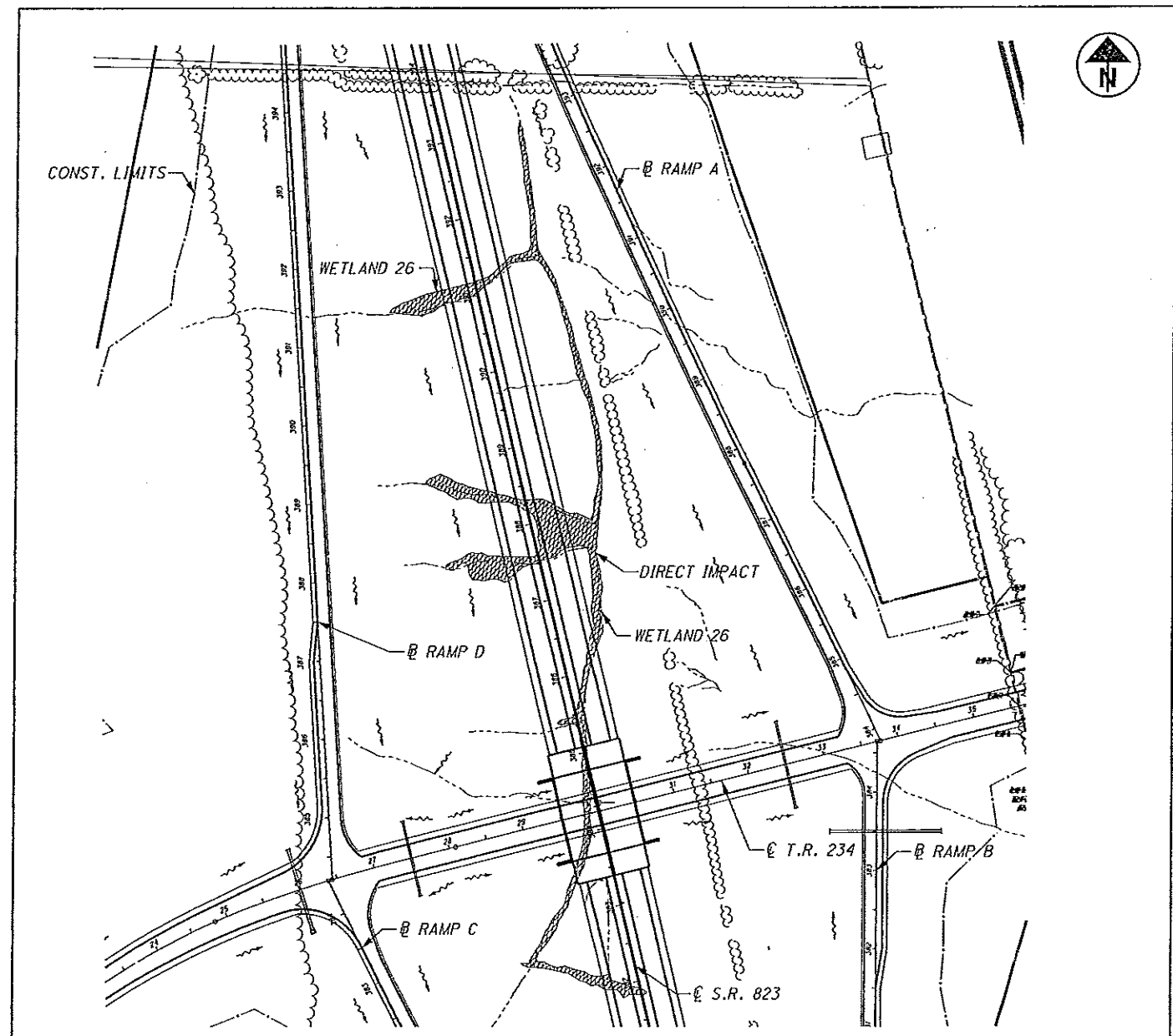
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-31

OHIO DEPARTMENT OF TRANSPORTATION
2011-00646-OHR, SCI-823-0.00, PID: 19445 SCIOTO COUNTY

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PLAN

PLAN SCALE: 1" = 200'

PROPERTY OWNERS:
DARREN C AND KIMBERLY JENKINS

WETLAND 26	
LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.483 ACRES
FILL BELOW OHW:	780 CY
INDIRECT IMPACT AREA:	0.00 ACRES

LEGEND

	DIRECT AREA
	INDIRECT AREA



**IMPACTS AT
WETLAND 26**

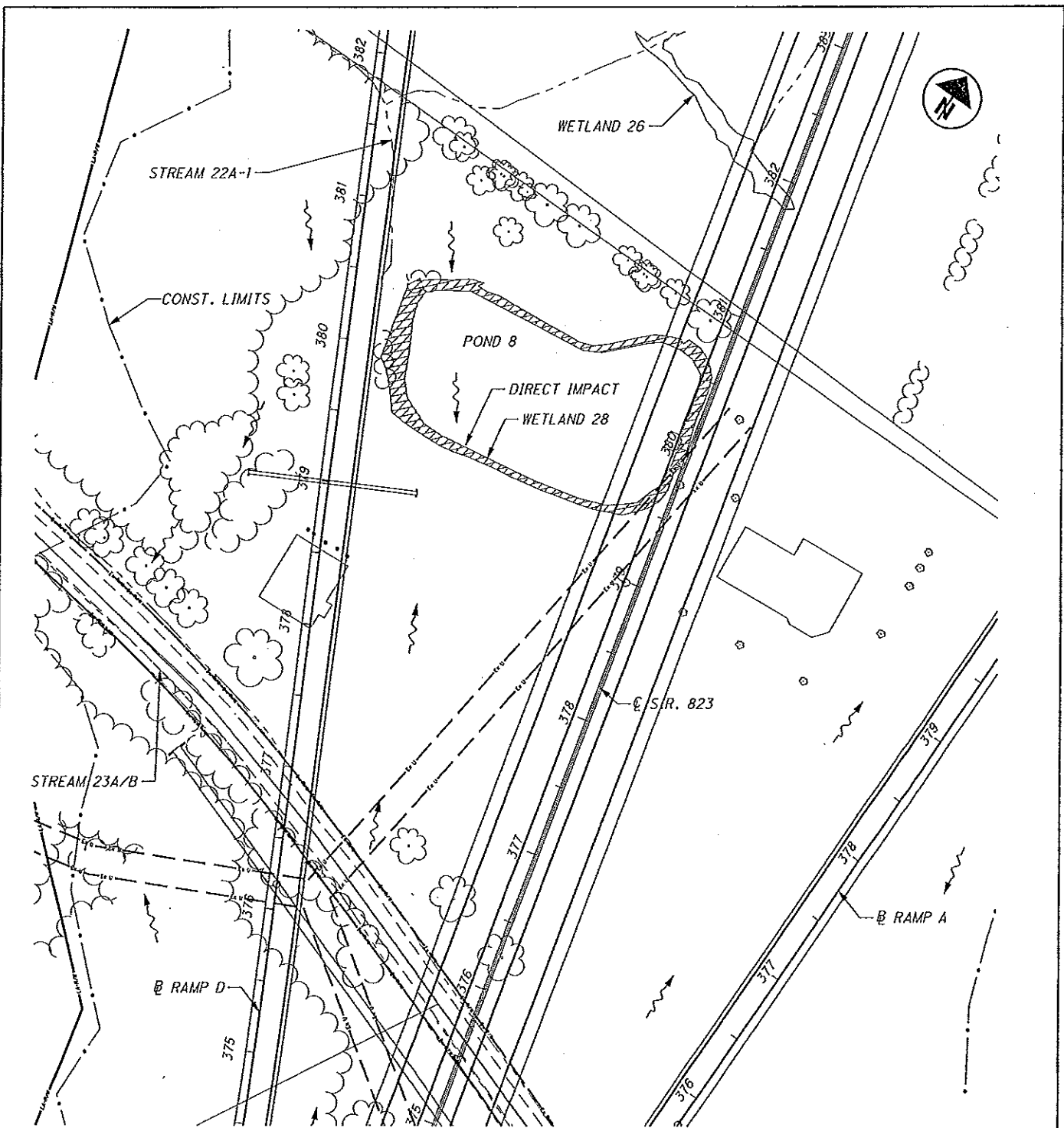
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-32

OHIO DEPARTMENT OF TRANSPORTATION
2011-00646-OHR, SCI-823-0.00, PID: 19445 SCIOTO COUNTY

Plan Sheet 49 of 70 (Phase 1 Portsmouth Bypass)



PLAN

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
DARREN C AND KIMBERLY JENKINS

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.101 ACRES
FILL BELOW OHW: 162 CY
INDIRECT IMPACT AREA: 0.00 ACRES

LEGEND

DIRECT AREA

INDIRECT AREA



IMPACTS AT WETLAND 28

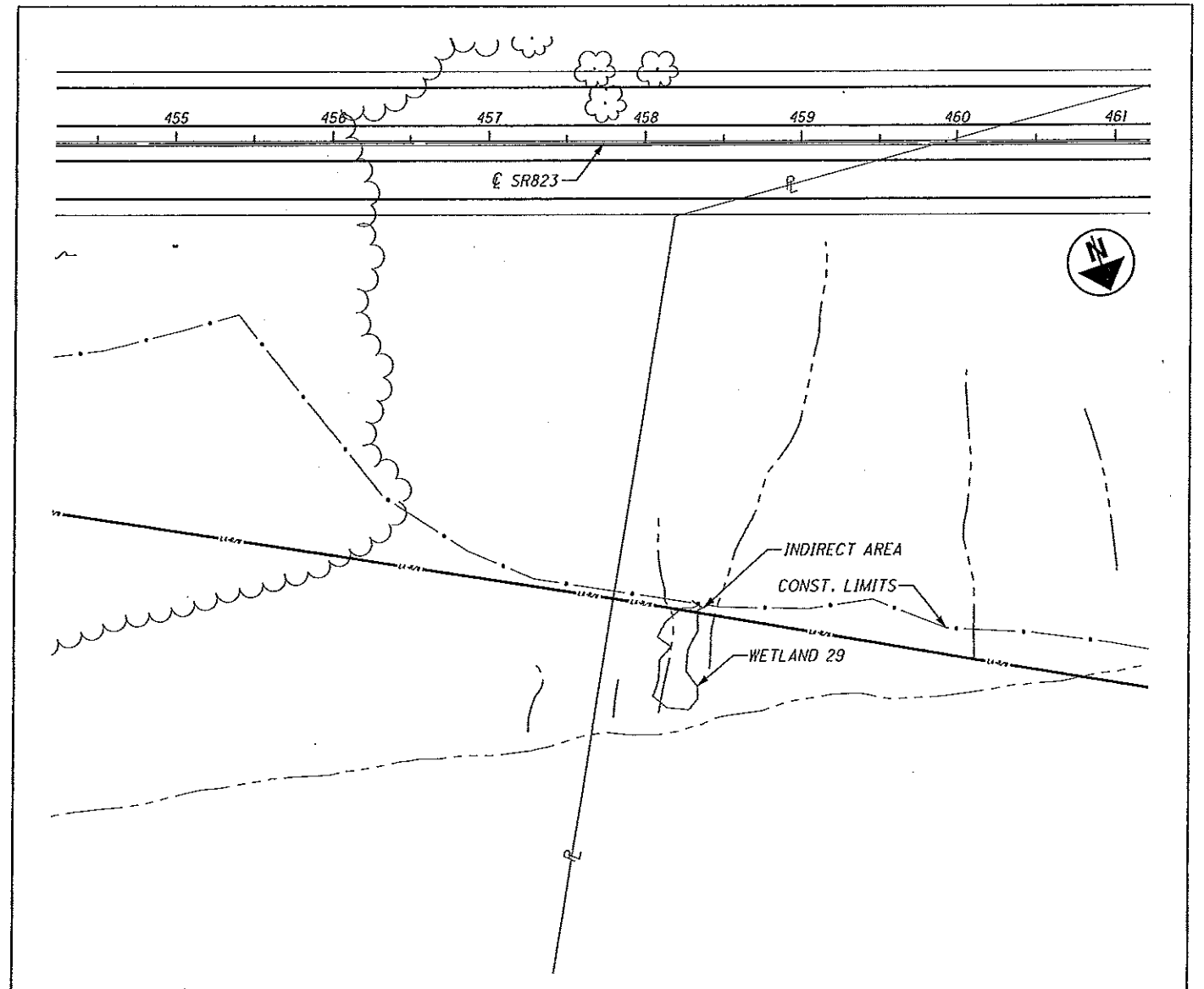
U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

DATE: 09/13/2011

FIGURE 3-33

OHIO DEPARTMENT OF TRANSPORTATION
2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 50 of 70 (Phase 1 Portsmouth Bypass)



PLAN

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
STATE OF OHIO
ANGELA SUE YEAGLE

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.00 ACRES
FILL BELOW OHW: 0 CY
INDIRECT IMPACT AREA: 0.001 ACRES

LEGEND

DIRECT AREA

INDIRECT AREA



IMPACTS AT WETLAND 29

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

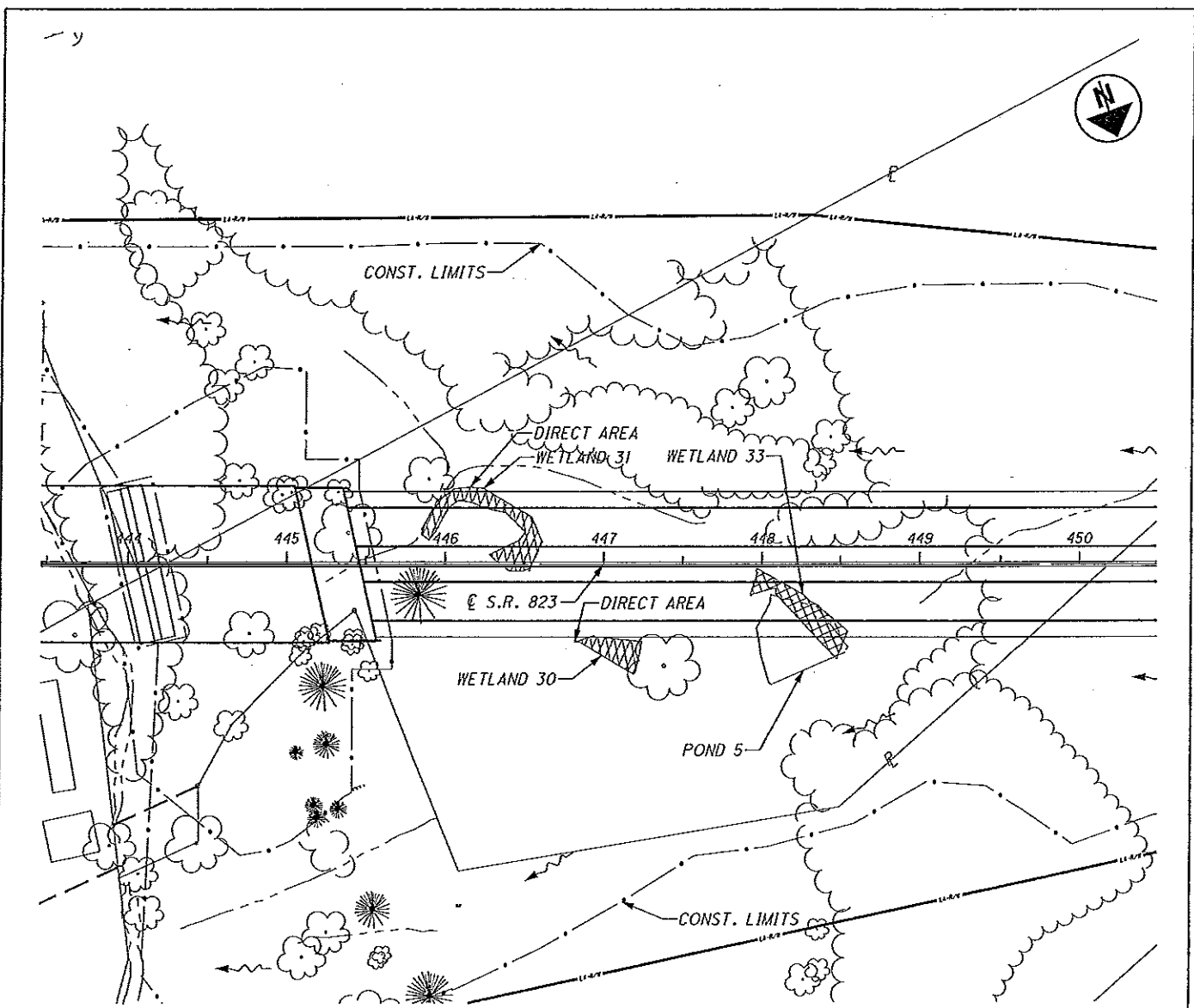
DATE: 09/13/2011

FIGURE 3-34

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

2011-00646-OHR, SCI-823-0.00, PID: 19415

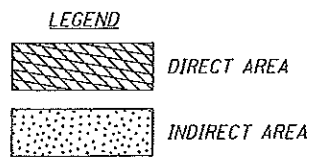
Plan Sheet 51 of 70 (Phase 1 Portsmouth Bypass)



PLAN

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
STATE OF OHIO
ANGELA SUE YEAGLE



WETLAND 30		WETLAND 31		WETLAND 33	
LENGTH OF IMPACT:	N/A	LENGTH OF IMPACT:	N/A	LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.011 ACRES	DIRECT IMPACT AREA:	0.027 ACRES	DIRECT IMPACT AREA:	0.021 ACRES
FILL BELOW OHW:	18 CY	FILL BELOW OHW:	44 CY	FILL BELOW OHW:	34 CY
INDIRECT IMPACT AREA:	0.00 ACRES	INDIRECT IMPACT AREA:	0.00 ACRES	INDIRECT IMPACT AREA:	0.00 ACRES



**IMPACTS AT
WETLANDS
WETLAND 30,
31, AND 33**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

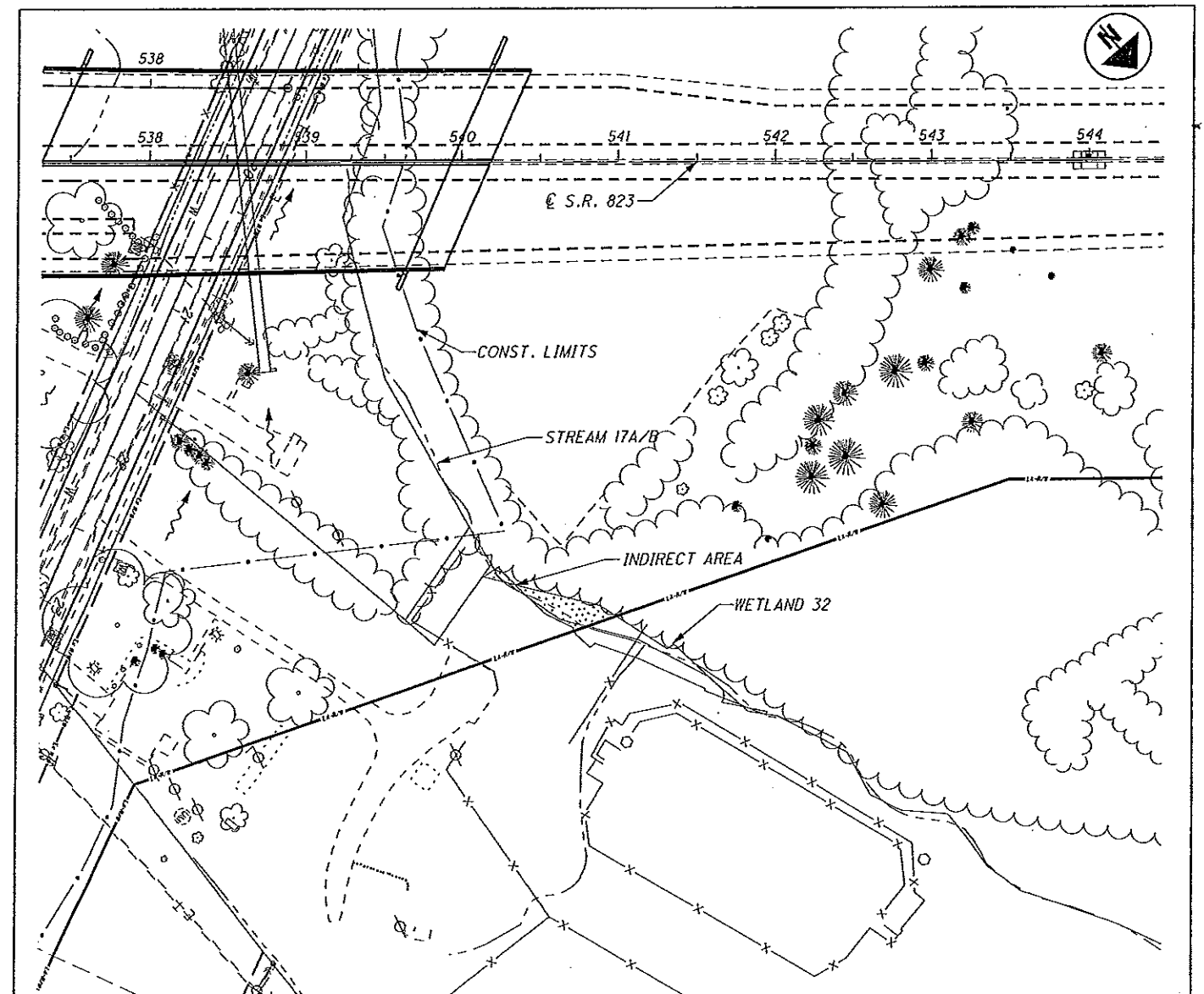
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-35

2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 52 of 70 (Phase 1 Portsmouth Bypass)

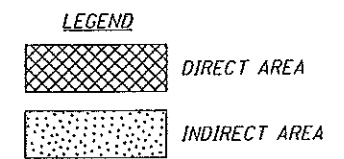


PLAN

PLAN SCALE: 1" = 100'

PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.00 ACRES
FILL BELOW OHW:	0 CY
INDIRECT IMPACT AREA:	0.019 ACRES



**IMPACTS AT
WETLAND 32**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

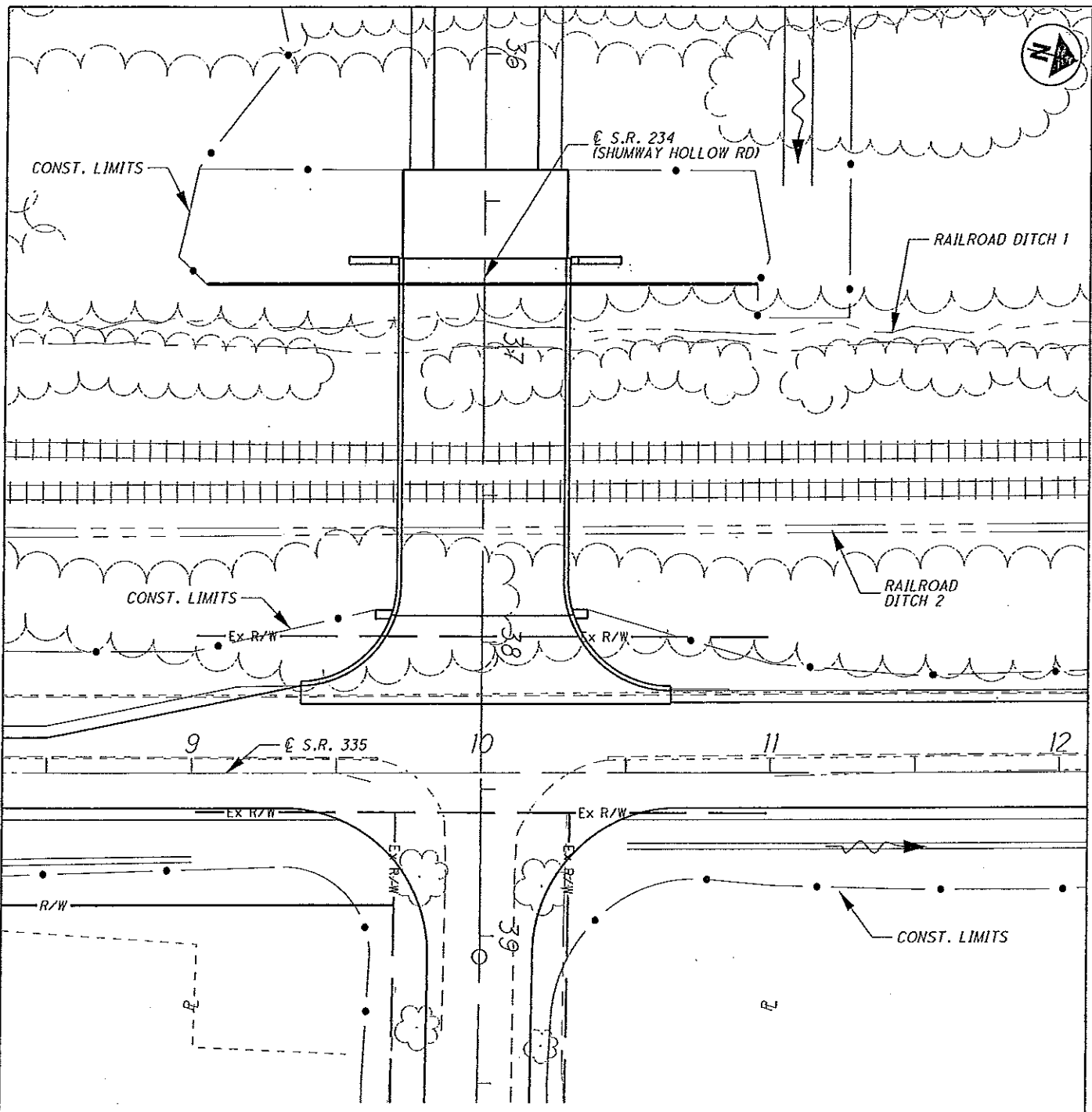
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-36

2011-00646-OHR, SCI-823-0.00, PID: 19415

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PLAN

PROPERTY OWNERS:
CSX TRANSPORTATION

LENGTH OF IMPACT: 0.0 LF
 AREA EXCAVATED OR FILLED: 0.00 ACRES
 EXCAVATION BELOW OHW: 0.0 CY
 FILL BELOW OHW: 0.0 CY

PLAN SCALE: 1" = 50'



**IMPACTS AT
RR DITCHES
1 AND 2**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

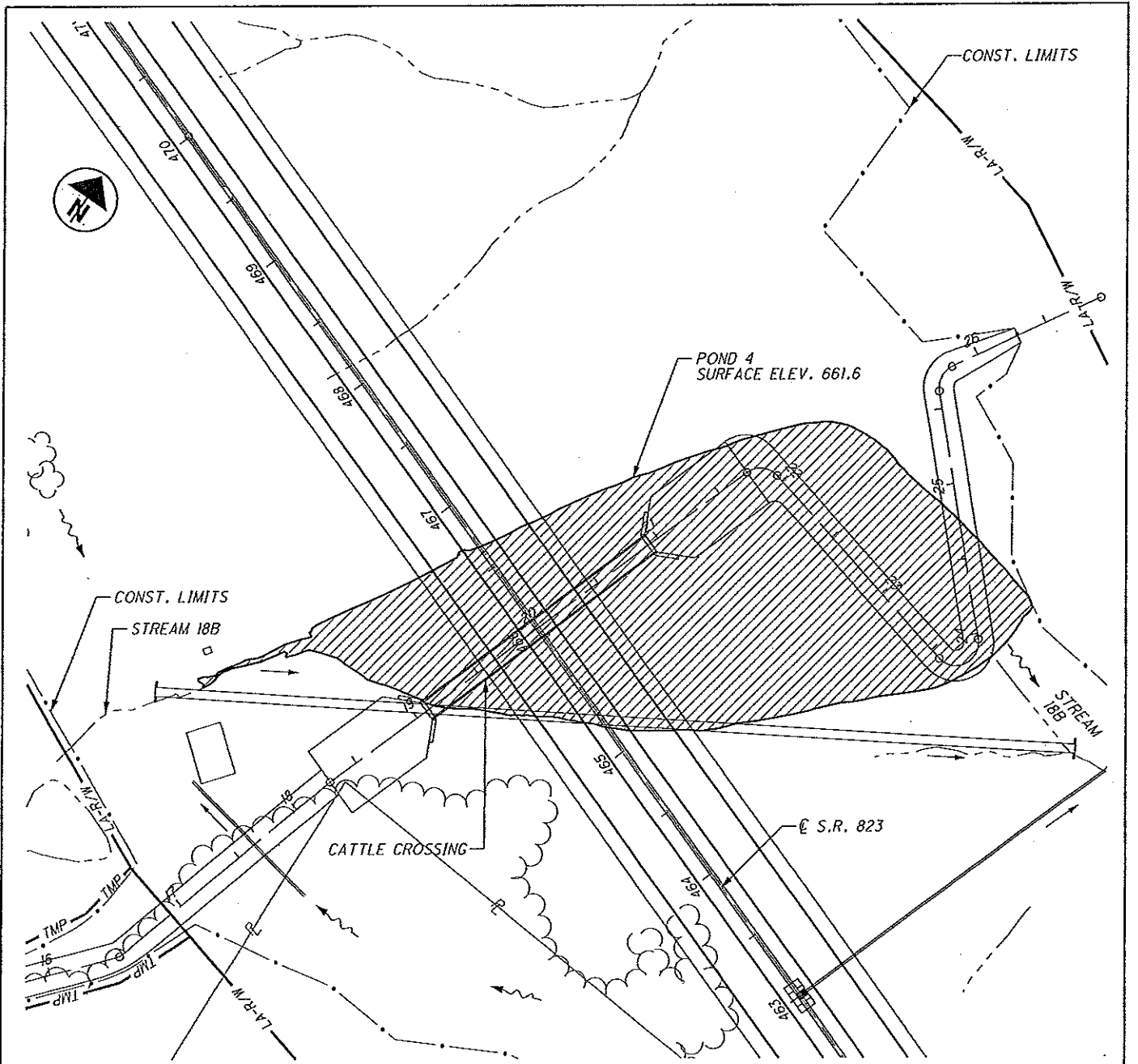
2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 54 of 70 (Phase 1 Portsmouth Bypass)

U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-37



PLAN

PROPERTY OWNERS:
KENNETH R RASE

LENGTH OF IMPACT: N/A
 AREA FILLED: 1.418 ACRES
 FILL BELOW OHW: 13,726 CY

LEGEND
 FILLED AREA

PLAN SCALE: 1" = 100'



**IMPACTS AT
POND 4**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

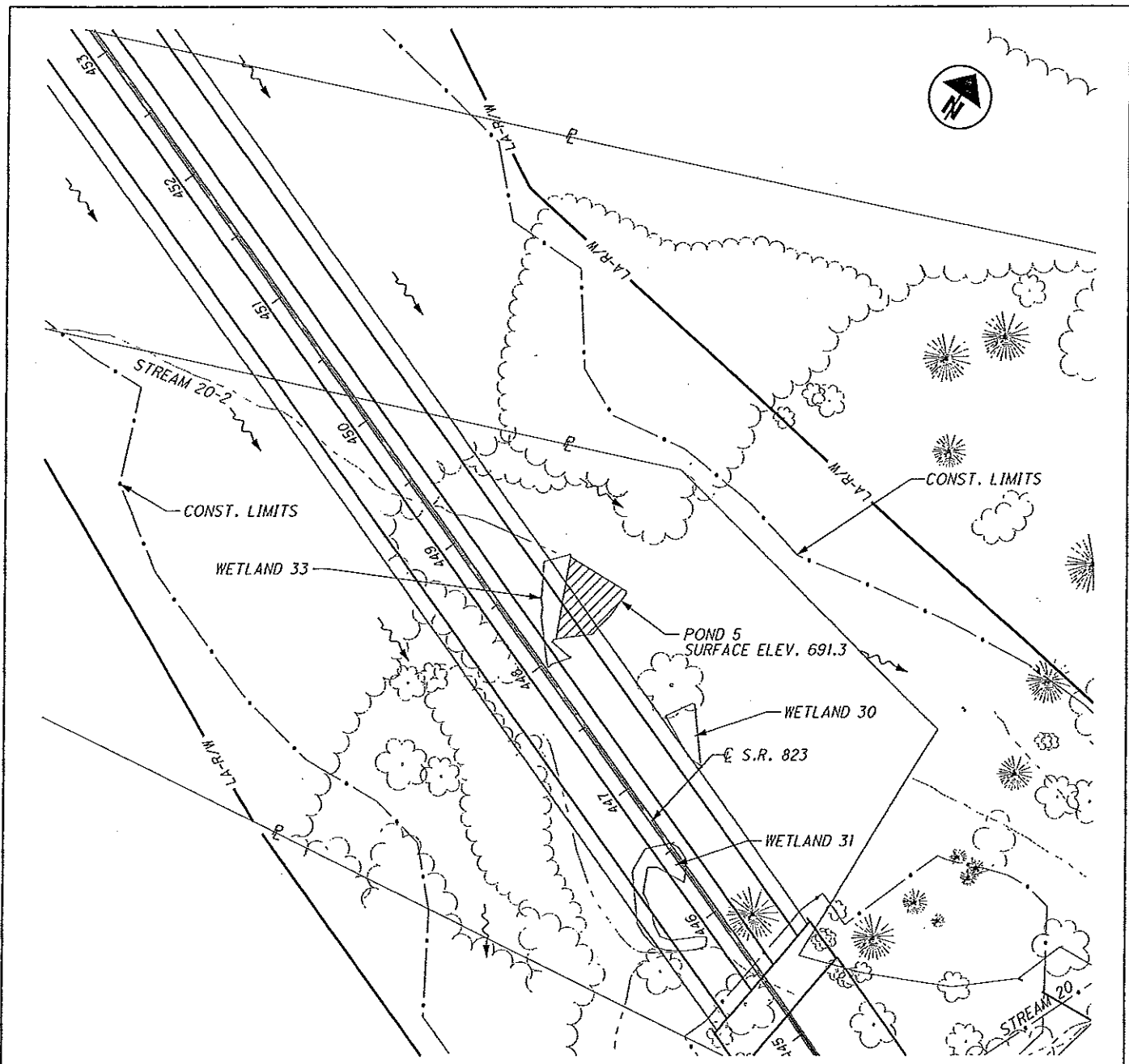
2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 55 of 70 (Phase 1 Portsmouth Bypass)

U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-38



PLAN

PROPERTY OWNERS:
STATE OF OHIO

LENGTH OF IMPACT: N/A
AREA FILLED: 0.034 ACRES
FILL BELOW OHW: 329 CY

LEGEND
 FILLED AREA

PLAN SCALE: 1" = 100'



IMPACTS AT POND 5

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

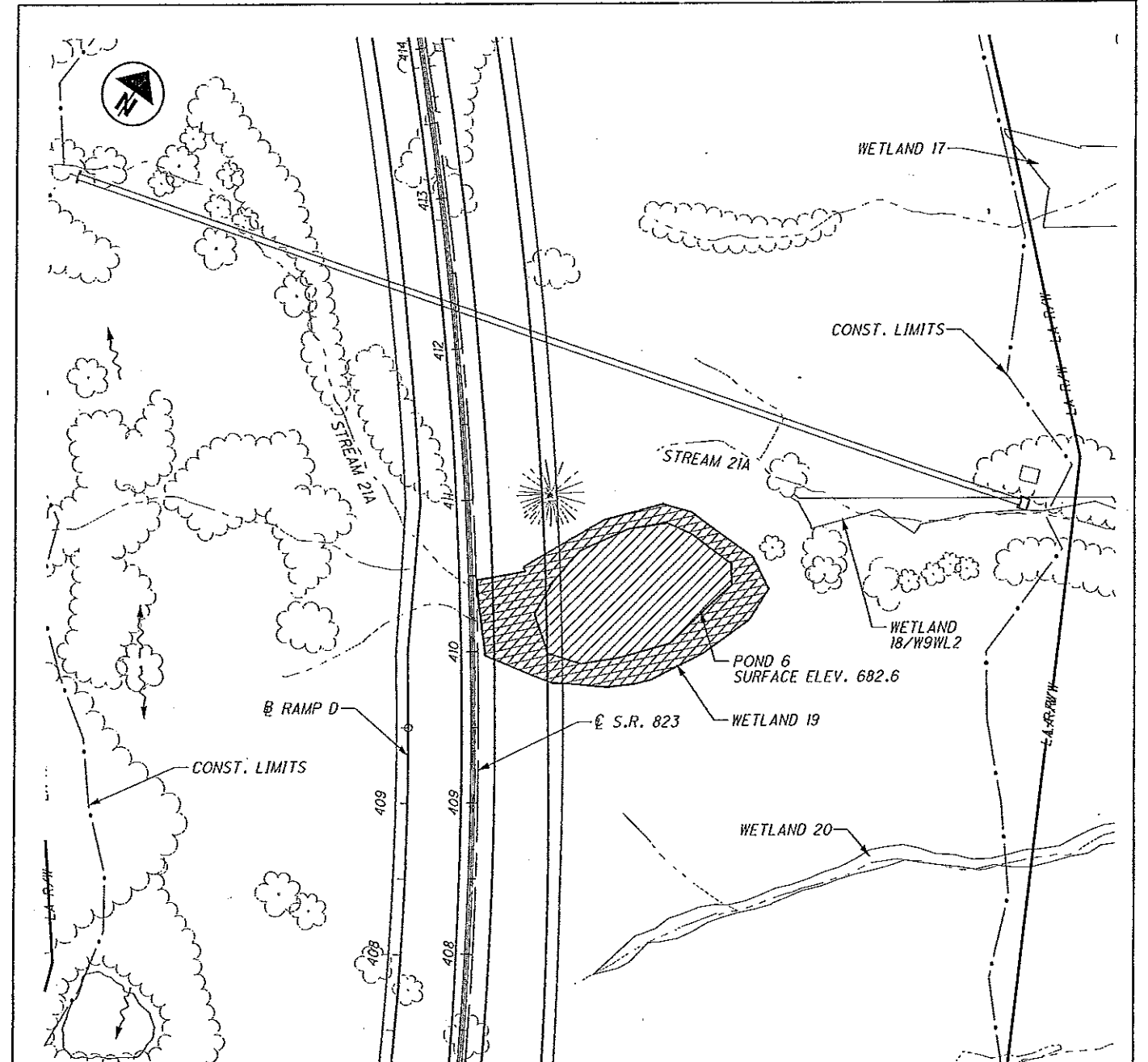
2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 56 of 70 (Phase 1 Portsmouth Bypass)

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

DATE: 09/13/2011

FIGURE 3-39



PLAN

PROPERTY OWNERS:
DARREN C AND KIMBERLY JENKINS

LENGTH OF IMPACT: N/A
AREA FILLED: 0.189 ACRES
FILL BELOW OHW: 1,830 CY

LEGEND
 FILLED AREA

PLAN SCALE: 1" = 100'



IMPACTS AT POND 6

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

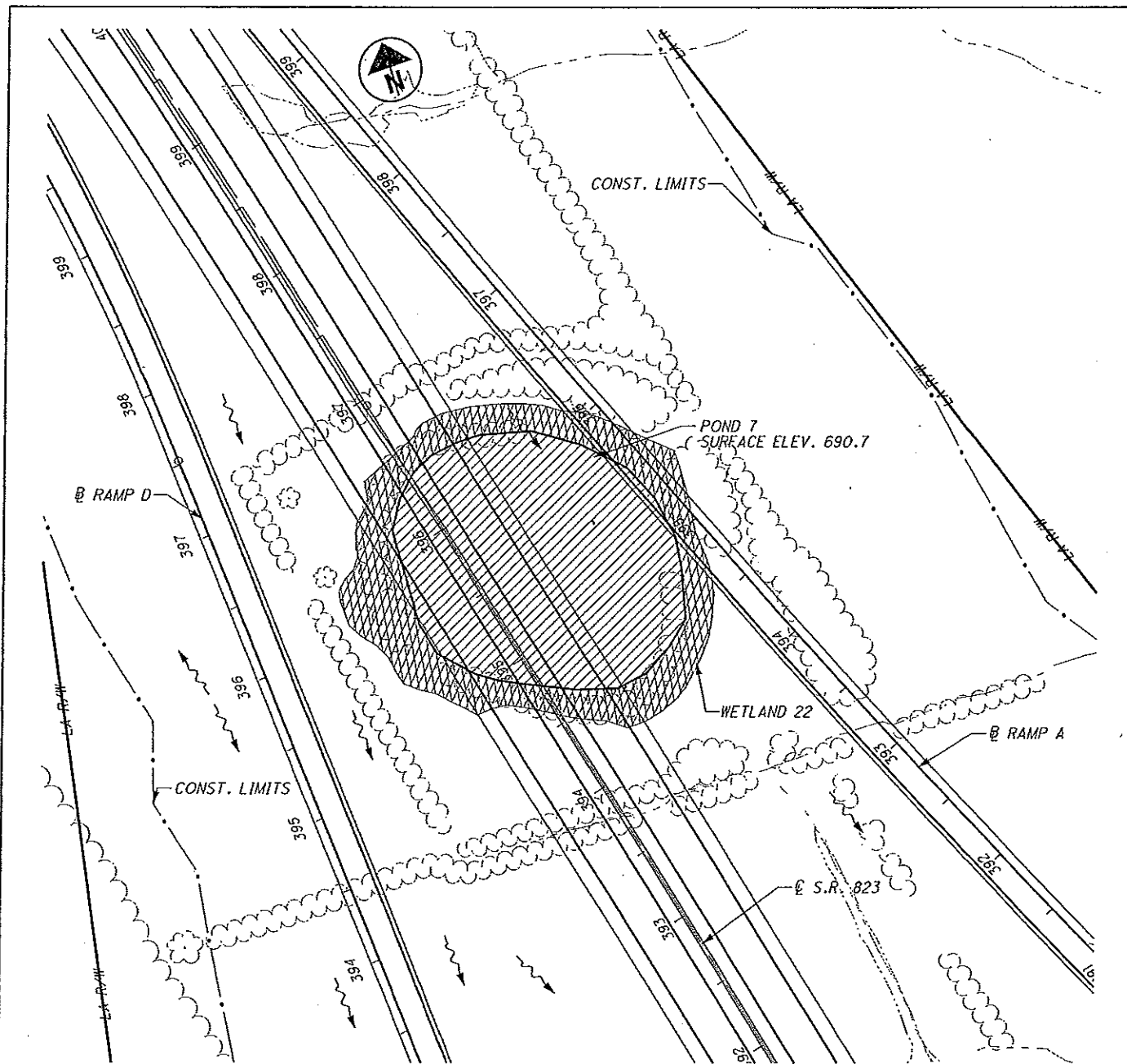
2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 57 of 70 (Phase 1 Portsmouth Bypass)

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application

DATE: 09/13/2011

FIGURE 3-40



PLAN

PROPERTY OWNERS:
MCKENZIE GERTRUDE B TRUSTEE
GERTRUDE B MCKENZIE REVOCABLE TRUST

LENGTH OF IMPACT: N/A
AREA EXCAVATED OR FILLED: 0.592 ACRES
FILL BELOW OHW: 5,731 CY

LEGEND
 FILLED AREA

PLAN SCALE: 1" = 100'



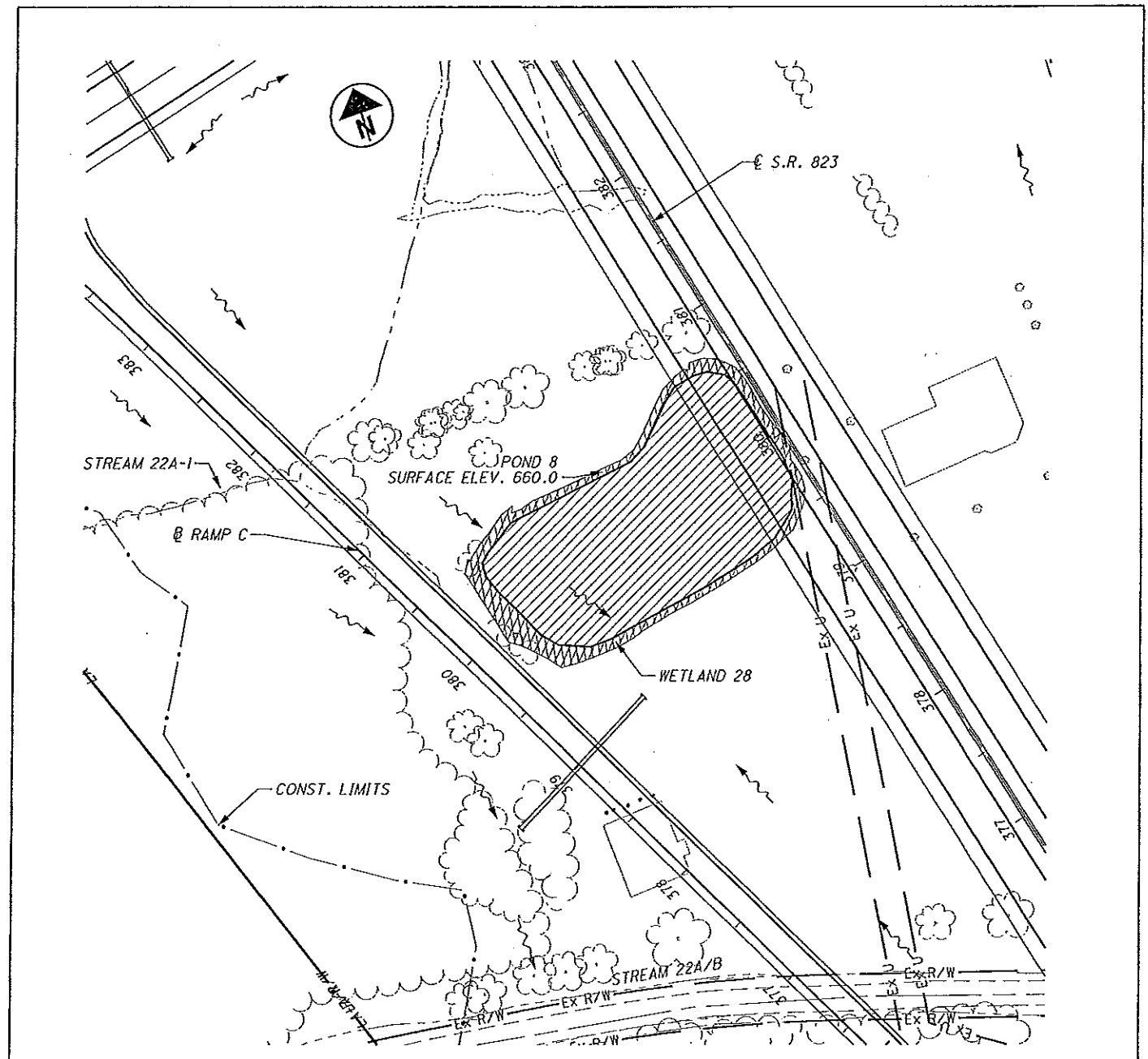
**IMPACTS AT
POND 7**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-41



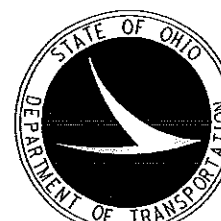
PLAN

PROPERTY OWNERS:
ROBERT R AND ROBIN BOUTS J/S

LENGTH OF IMPACT: N/A
AREA EXCAVATED OR FILLED: 0.467 ACRES
FILL BELOW OHW: 4,521 CY

LEGEND
 FILLED AREA

PLAN SCALE: 1" = 100'



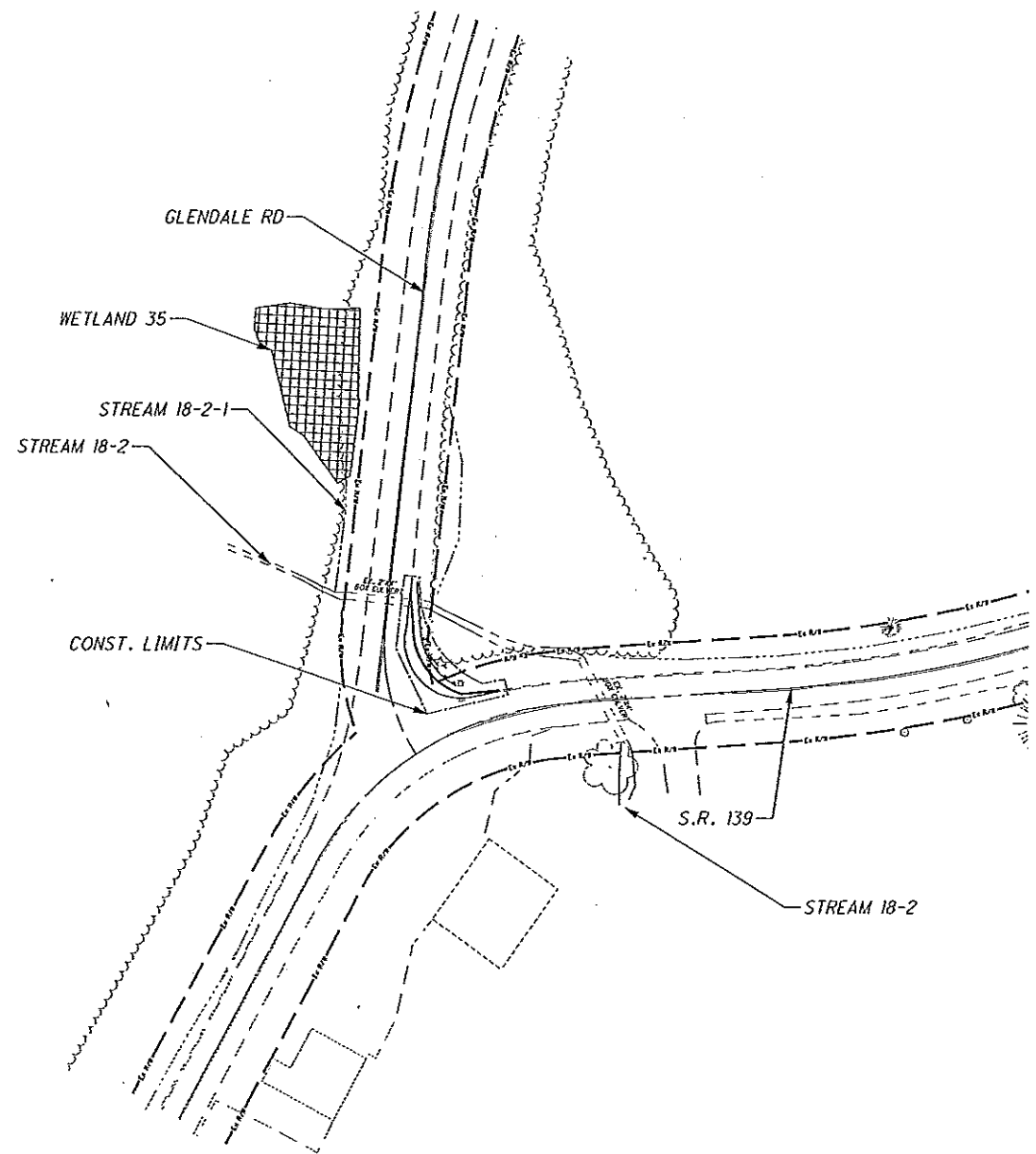
**IMPACTS AT
POND 8**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 3-42



PLAN

STREAM IMPACT LENGTH
 OHWM
 PLAN SCALE: 1" = 100'
 CROSS SECTION: 1" = 20'

**NO IMPACTS AT
STREAM 18-2 AND 18-2-1
WETLAND 35**

U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/14/2011

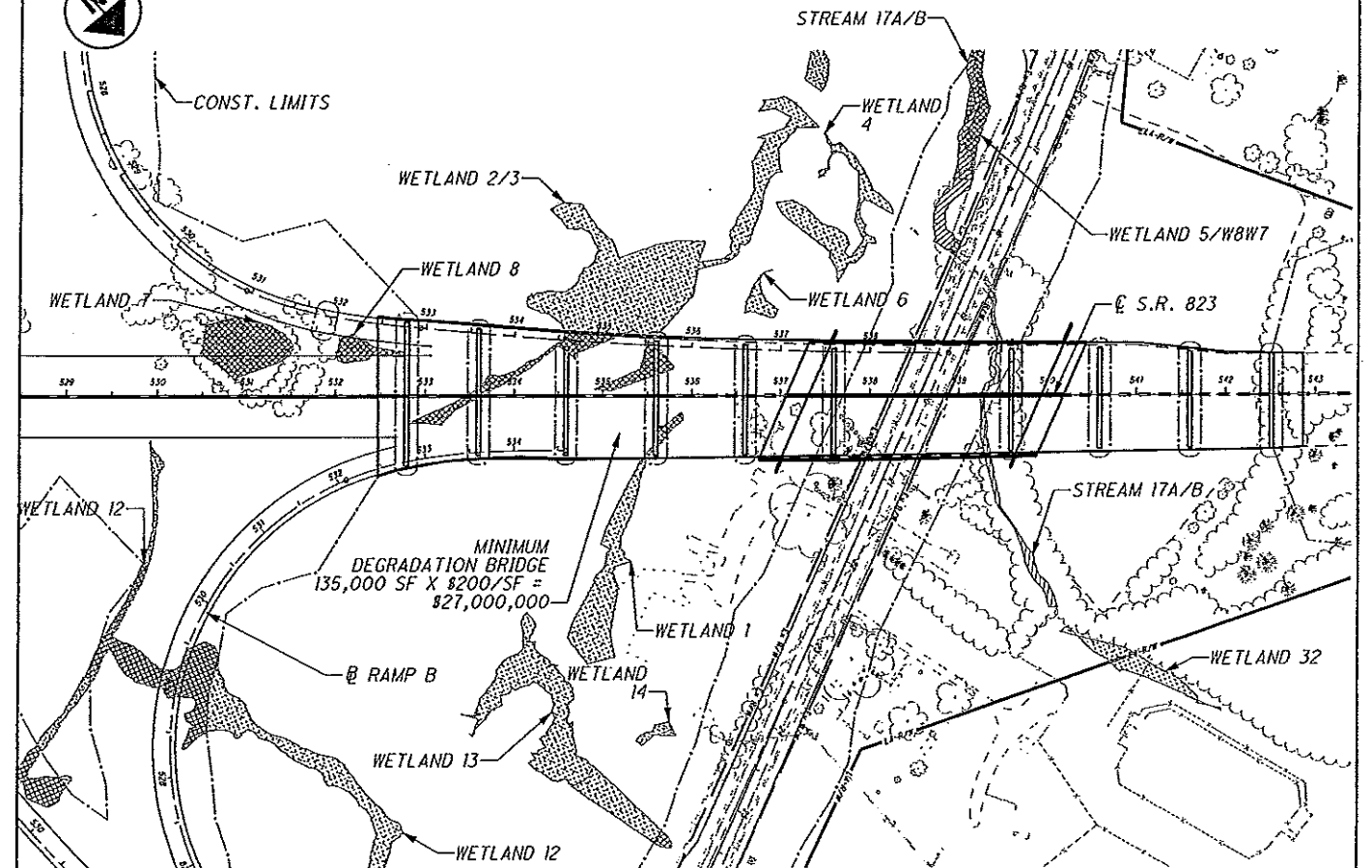
FIGURE 3-43

2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 60 of 70 (Phase 1 Portsmouth Bypass)



OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY



PLAN

PROPERTY OWNERS:
STATE OF OHIO

LEGEND
 DIRECT AREA
 WETLAND WITHIN ROW

PLAN SCALE: 1" = 200'

WETLAND 1		WETLAND 2/3		WETLAND 4	
LENGTH OF IMPACT:	N/A	LENGTH OF IMPACT:	N/A	LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.011 ACRES	DIRECT IMPACT AREA:	0.092 ACRES	DIRECT IMPACT AREA:	0.002 ACRES
WETLAND AREA WITHIN ROW:	0.129 ACRES	WETLAND AREA WITHIN ROW:	0.425 ACRES	WETLAND AREA WITHIN ROW:	0.087 ACRES

WETLAND 6		WETLAND 13		WETLAND 14	
LENGTH OF IMPACT:	N/A	LENGTH OF IMPACT:	N/A	LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.0 ACRES	DIRECT IMPACT AREA:	0.005 ACRES	DIRECT IMPACT AREA:	0.000 ACRES
WETLAND AREA WITHIN ROW:	0.016 ACRES	WETLAND AREA WITHIN ROW:	0.228 ACRES	WETLAND AREA WITHIN ROW:	0.010 ACRES

**MINIMUM DEGRADATION
WETLAND
1, 2/3, 4,
6, 13 AND 14**

U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

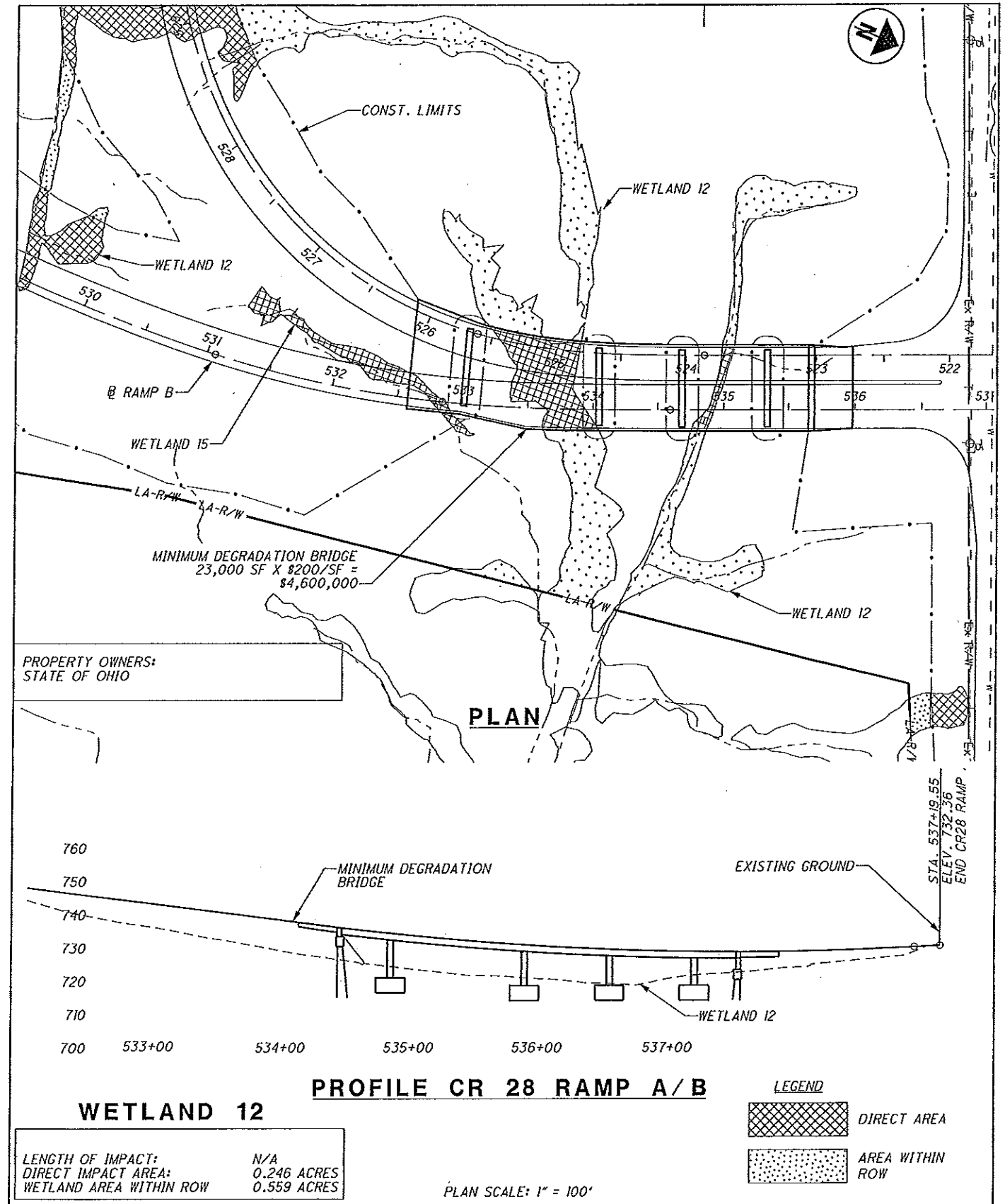
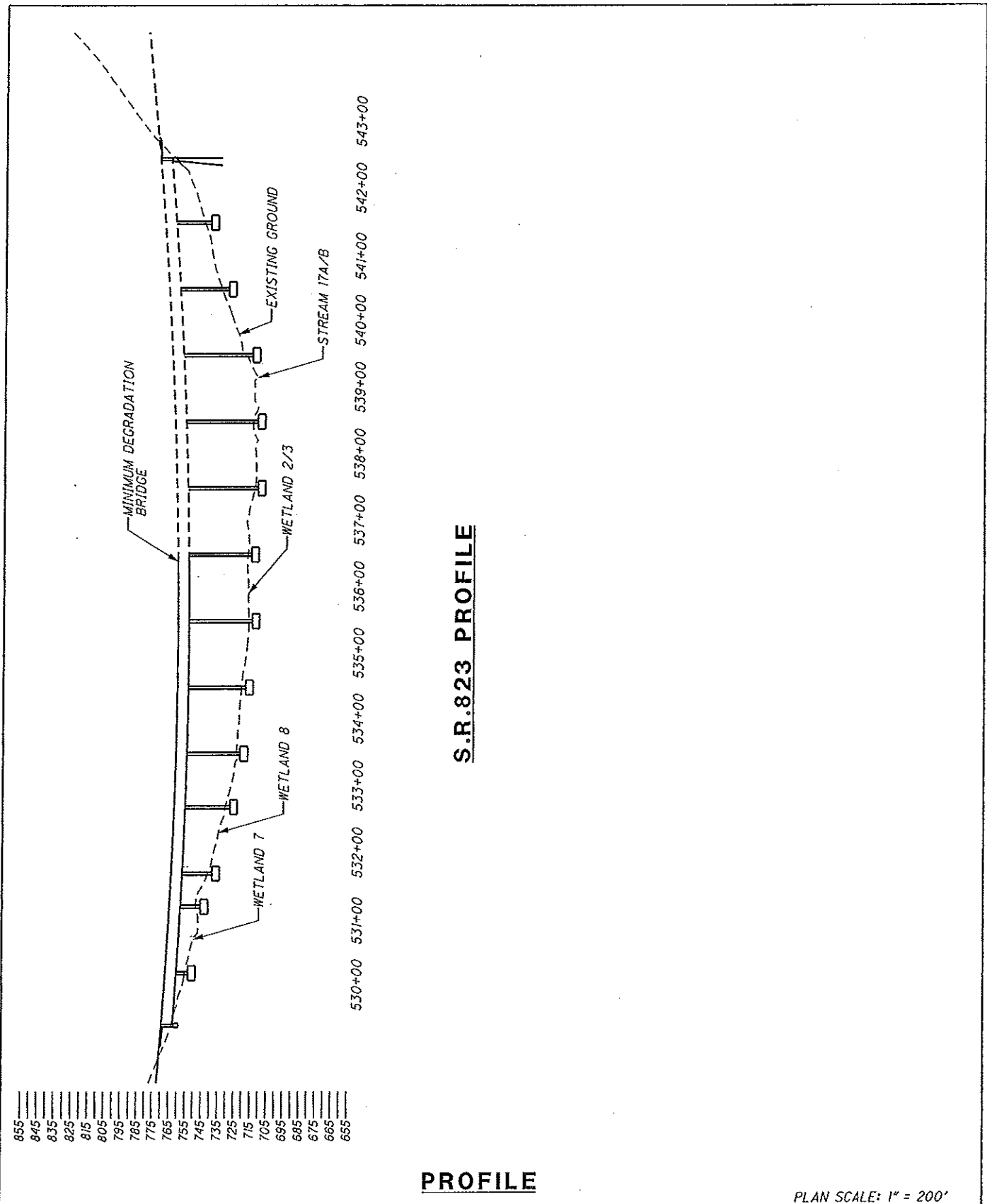
FIGURE 4-1

2011-00646-OHR, SCI-823-0.00, PID: 19415

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OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY



LENGTH OF IMPACT:	N/A
DIRECT IMPACT AREA:	0.246 ACRES
WETLAND AREA WITHIN ROW	0.559 ACRES

LEGEND

	DIRECT AREA
	AREA WITHIN ROW



**MINIMUM DEGRADATION
WETLAND
1, 2/3, 4,
6, 13 AND 14**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 4-1A

2011-00646-OHR, SCI-823-0.00, PID: 19415

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**MINIMUM DEGRADATION
WETLAND 12**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

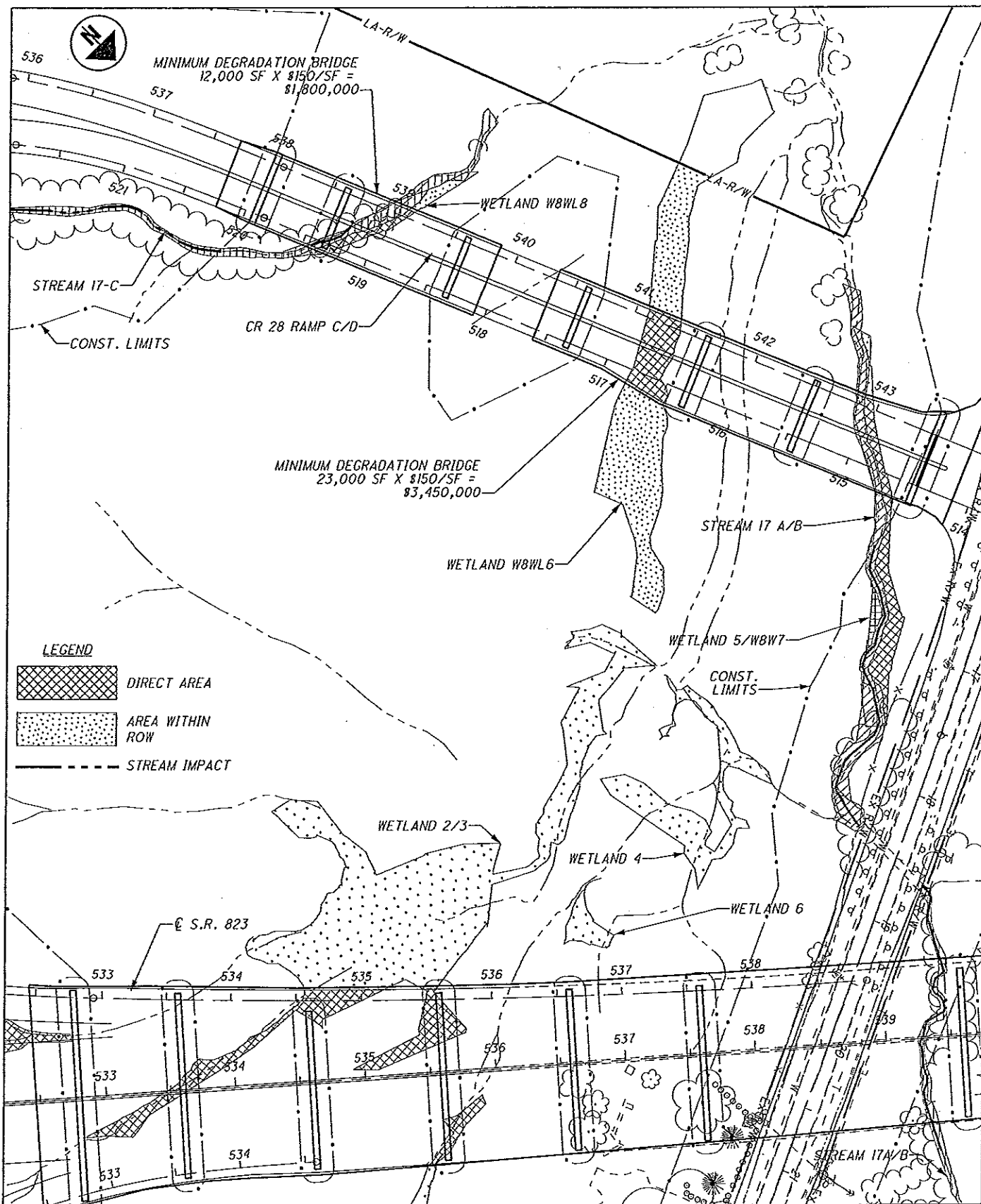
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 4-2

2011-00646-OHR, SCI-823-0.00, PID: 19415

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**MINIMUM DEGRADATION
STREAM 17 A/B AND 17C
WETLAND 5/W8WL7
WETLAND W8WL6
AND WETLAND W8WL8**

U.S. Army Corps of
Engineers 404 Permit
and OSPA Section 401
Water Quality
Certification
Application

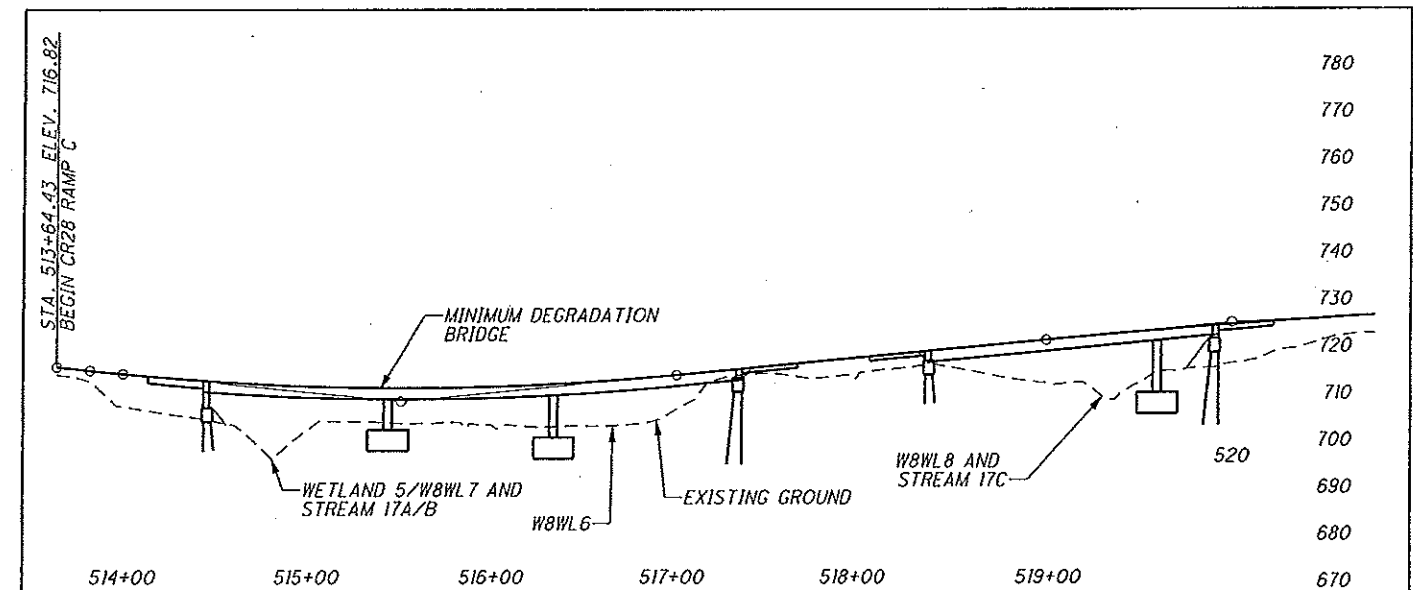
DATE: 09/13/2011

FIGURE 4-3

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

2011-00646-OHR, SCI-823-0.00, PID: 19415

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STREAM 17A/B

LENGTH OF IMPACT: 460 LF
AREA OF IMPACT: 0.062 ACRES
FILL BELOW OHW: 95 CY
EXCAVATION BELOW OHW: 11 CY

STREAM 17C

LENGTH OF IMPACT: 743 LF
AREA OF IMPACT: 0.057 ACRES
FILL BELOW OHW: 44 CY
EXCAVATION BELOW OHW: 5 CY

WETLAND W8WL6

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.040 ACRES
WETLAND AREA WITHIN ROW: 0.181 ACRES

WETLAND W8WL8

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.010 ACRES
WETLAND AREA WITHIN ROW: 0.010 ACRES

WETLAND 5/W8WL7

LENGTH OF IMPACT: N/A
DIRECT IMPACT AREA: 0.051 ACRES
WETLAND AREA WITHIN ROW: 0.004 ACRES



**MINIMUM DEGRADATION
STREAM 17 A/B AND 17C
WETLAND 5/W8WL7
WETLAND W8WL6
AND WETLAND W8WL8**

U.S. Army Corps of
Engineers 404 Permit
and OSPA Section 401
Water Quality
Certification
Application

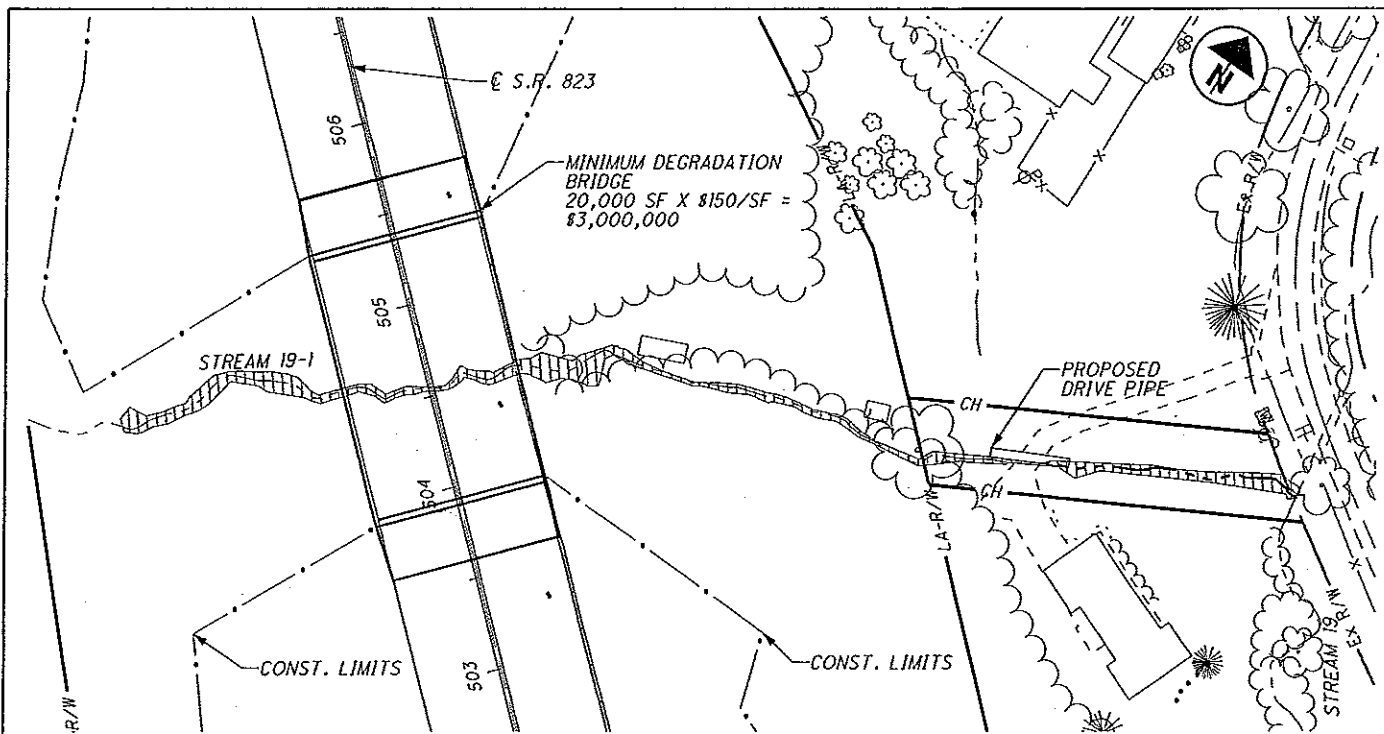
DATE: 09/13/2011

FIGURE 4-3A

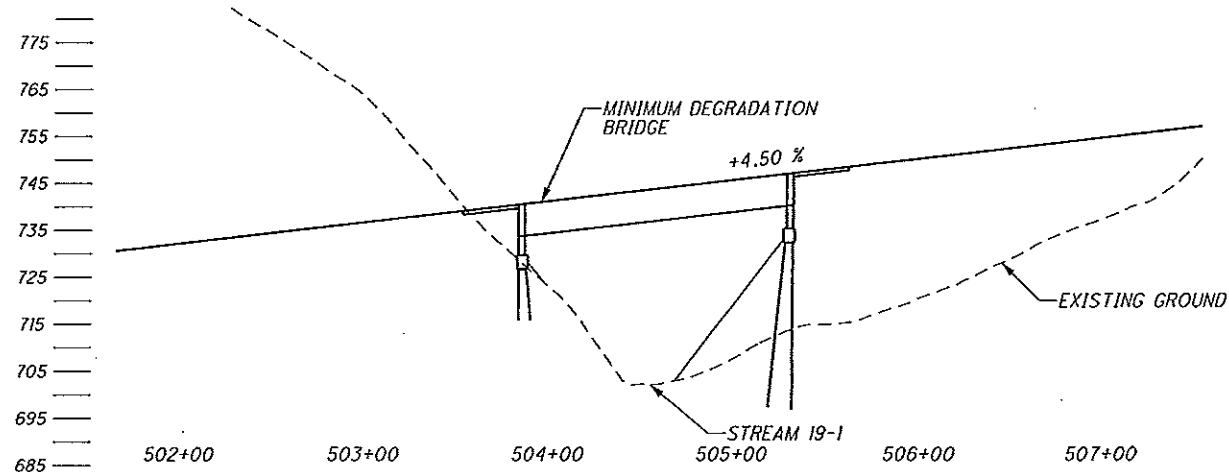
OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 65 of 70 (Phase 1 Portsmouth Bypass)



PLAN



PROFILE

LEGEND
 --- STREAM IMPACT LENGTH
 OHWM

LENGTH OF IMPACT:	143 LF	PROPERTY OWNERS:	JOSEPH AND CRYSTAL PRESTON J/S
AREA EXCAVATED OR FILLED:	0.020 ACRES		JOSEPH D AND BETH A WEEKLY J/S
EXCAVATION BELOW OHW:	32 CY		
FILL BELOW OHW:	17 CY		

PLAN SCALE: 1" = 100'
 PROFILE: 1" = 100'



MINIMUM DEGRADATION

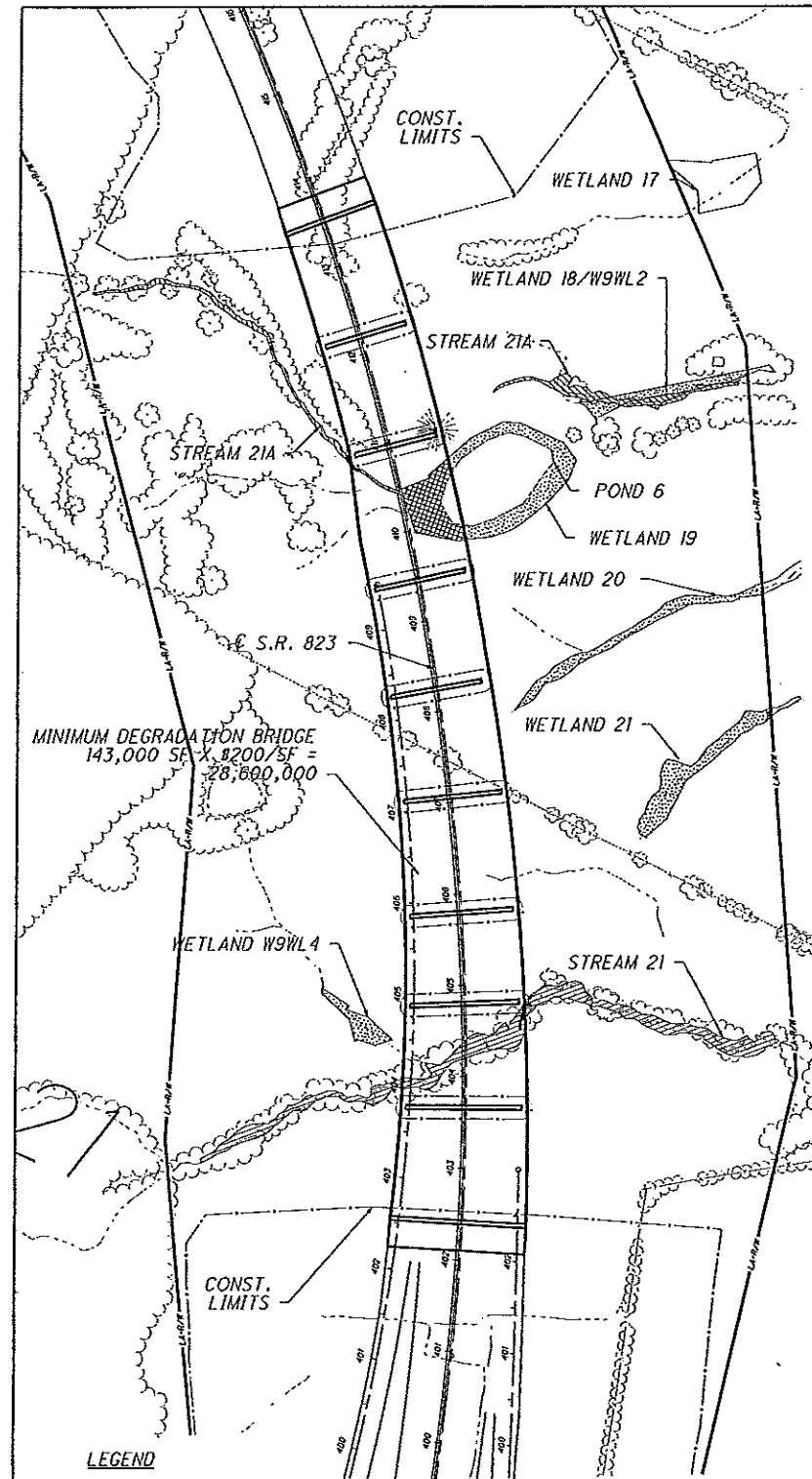
STREAM 19-1

OHIO DEPARTMENT OF TRANSPORTATION
 S.R. 823 BYPASS IN SCIOTO COUNTY

U.S. Army Corps of Engineers 404 Permit and OESA Section 401 Water Quality Certification Application

DATE: 09/13/2011

FIGURE 4-4



PLAN

LEGEND
 [Cross-hatched] DIRECT AREA
 [Dotted] AREA WITHIN ROW
 [Dashed] AREA WITHIN ROW

PROPERTY OWNERS:
 STATE OF OHIO
 DARREN AND KIMBERLY JENNINGS

WETLAND 17
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.0 ACRES
 WETLAND AREA WITHIN ROW: 0.001 ACRES

WETLAND 18/ W9WL2
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.0 ACRES
 WETLAND AREA WITHIN ROW: 0.038 ACRES

STREAM 21A
 LENGTH OF IMPACT: 24 LF
 AREA OF IMPACT: 0.004 ACRES
 FILL BELOW OHW: 2 CY
 EXCAVATION BELOW OHW: 4 CY

WETLAND 19
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.072 ACRES
 WETLAND AREA WITHIN ROW: 0.108 ACRES

WETLAND 20
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.0 ACRES
 WETLAND AREA WITHIN ROW: 0.062 ACRES

POND 6
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.0 ACRES
 FILL BELOW OHW: 0 CY

STREAM 21
 LENGTH OF IMPACT: 36 LF
 AREA OF IMPACT: 0.018 ACRES
 FILL BELOW OHW: 7 CY
 EXCAVATION BELOW OHW: 7 CY

WETLAND W9WL4
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.0 ACRES
 WETLAND AREA WITHIN ROW: 0.029 ACRES

WETLAND 21
 LENGTH OF IMPACT: N/A
 DIRECT IMPACT AREA: 0.0 ACRES
 WETLAND AREA WITHIN ROW: 0.082 ACRES

PLAN SCALE: 1" = 200'



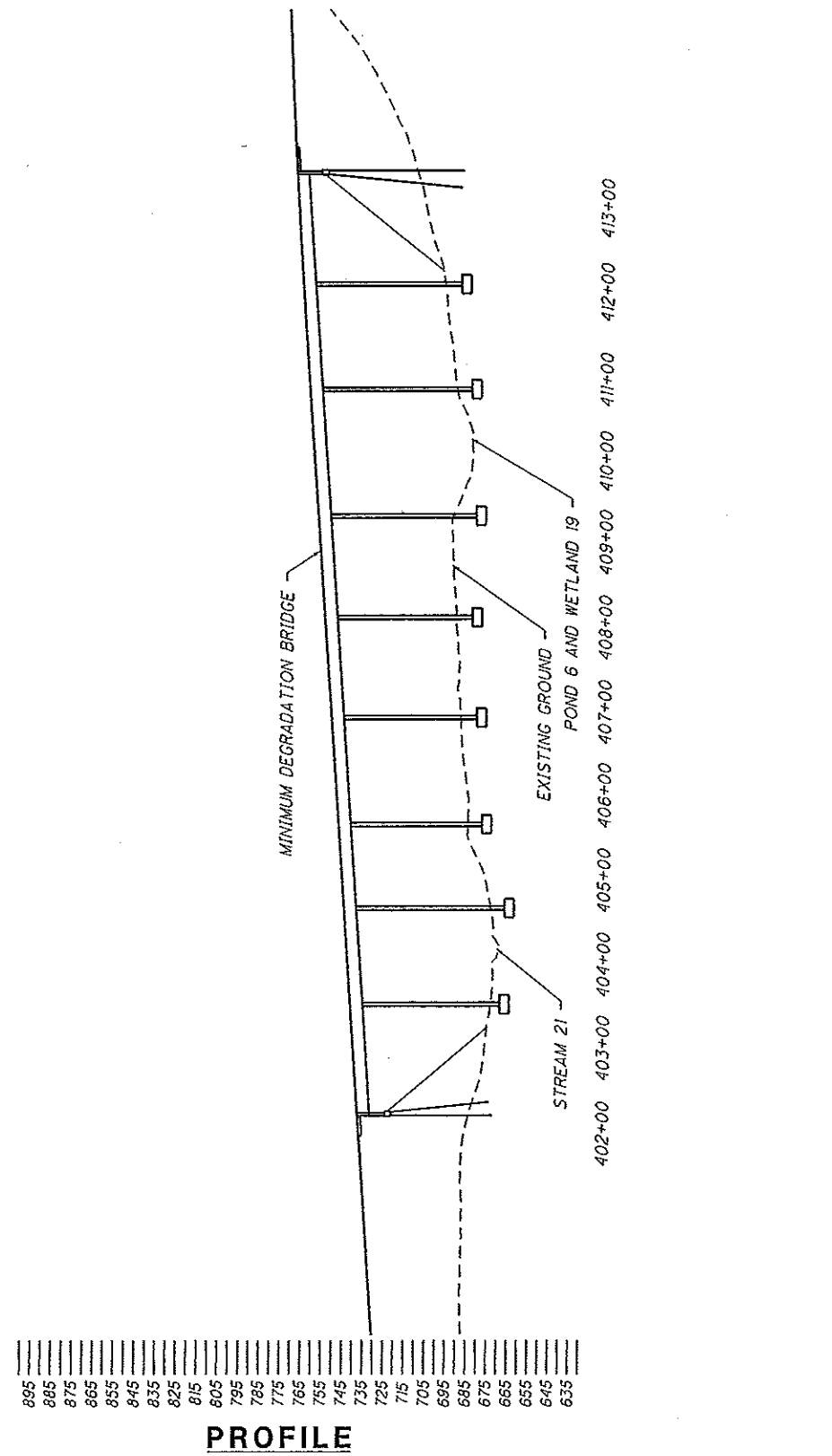
MINIMUM DEGRADATION
STREAM 21 AND 21-1
WETLAND 17, 18/ W9WL2,
19, 20 AND 21
POND 6

OHIO DEPARTMENT OF TRANSPORTATION
 S.R. 823 BYPASS IN SCIOTO COUNTY

U.S. Army Corps of Engineers 404 Permit and OESA Section 401 Water Quality Certification Application

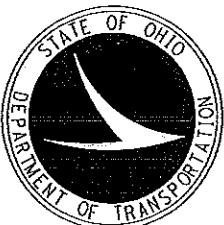
DATE: 09/13/2011

FIGURE 4-5



PROFILE

PLAN SCALE: 1" = 200'



**MINIMUM DEGRADATION
STREAM 21 AND 21-1
WETLAND 17, 18/W9WL2,
19, 20 AND 21
POND 6**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

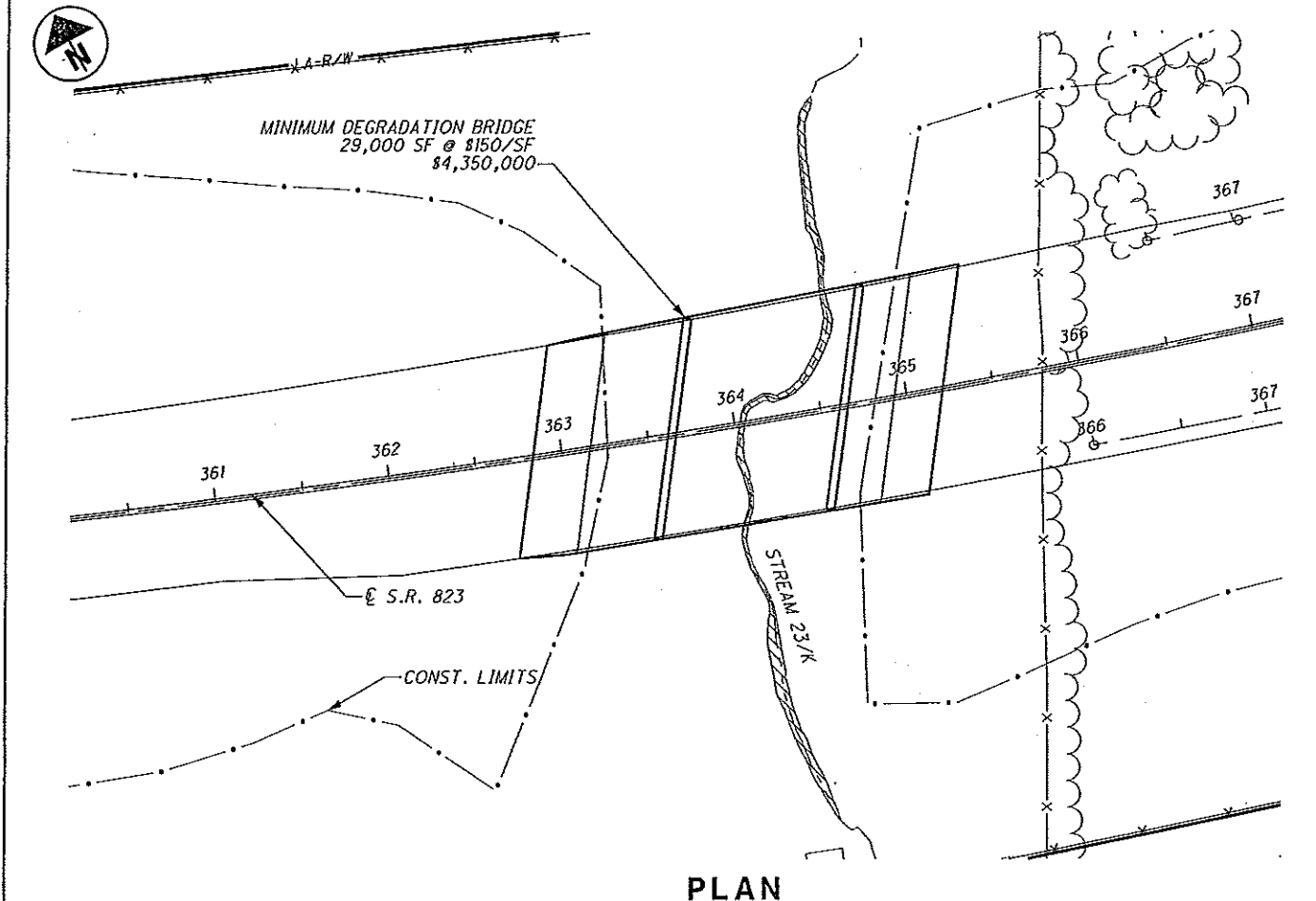
2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 68 of 70 (Phase 1 Portsmouth Bypass)

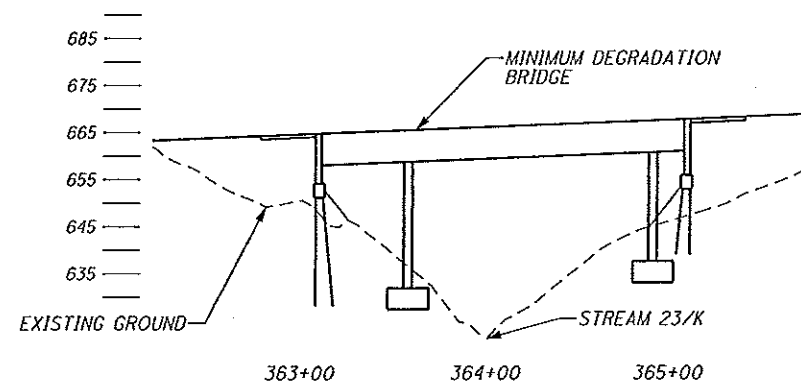
U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 4-5A



PLAN



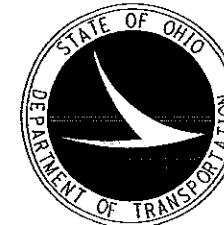
PROFILE

LEGEND

LENGTH OF IMPACT: 0 LF
AREA EXCAVATED OR FILLED: 0.0 ACRES
EXCAVATION BELOW OHW: 0 CY
FILL BELOW OHW: 0 CY

--- STREAM IMPACT LENGTH
/// OHW

PLAN SCALE: 1" = 100'
CUL VERT PROFILE: 1" = 100'



**MINIMUM DEGRADATION
STREAM 23/K**

OHIO DEPARTMENT OF TRANSPORTATION
S.R. 823 BYPASS IN SCIOTO COUNTY

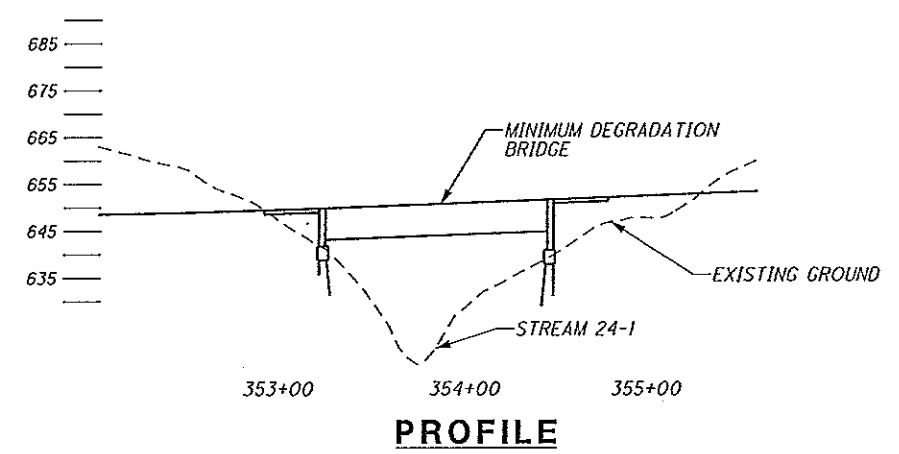
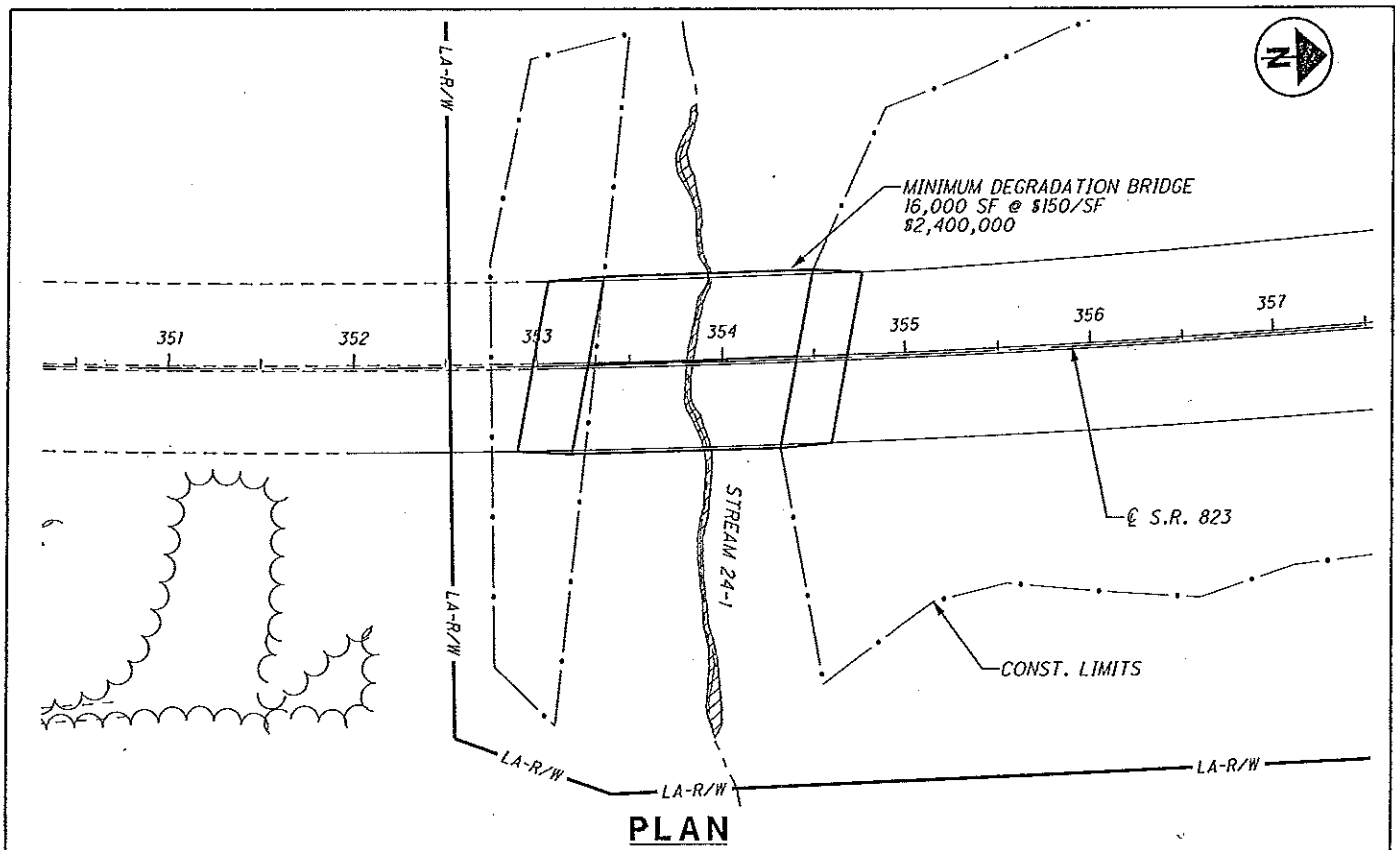
2011-00646-OHR, SCI-823-0.00, PID: 19415

Plan Sheet 69 of 70 (Phase 1 Portsmouth Bypass)

U.S. Army Corps of
Engineers 404 Permit
and OEPA Section 401
Water Quality
Certification
Application

DATE: 09/13/2011

FIGURE 4-6



LEGEND
 - - - - - STREAM IMPACT LENGTH
 // // // // OHWM

PROPERTY OWNERS:
 VICTOR D AND ELSIE A KNORE J/S

LENGTH OF IMPACT: 0 LF
AREA EXCAVATED OR FILLED: 0.0 ACRES
EXCAVATION BELOW OHW: 0 CY
FILL BELOW OHW: 0 CY

PLAN SCALE: 1" = 100'
 CULVERT PROFILE: 1" = 100'



**MINIMUM DEGRADATION
 STREAM 24-1**

OHIO DEPARTMENT OF TRANSPORTATION
 S.R. 823 BYPASS IN SCIOTO COUNTY

U.S. Army Corps of Engineers 404 Permit and OEPA Section 401 Water Quality Certification Application
 DATE: 09/13/2011

FIGURE 4-7

404 / 401 TABLE C
 Nature of Proposed Activities by Impacted Feature for the Preferred Alternative

A. Streams	Site/Feature	Approximate Station Location	Proposed Structure or Action	Existing Channel Disturbed Due to Permanent Placement of Proposed Structure, Highway Fill, Channel Change or Channel Protection				Existing Channel Disturbed Due to Temporary Crossing																	
				Length of Channel Disturbed (feet)	Excavation below OHWM	Excavation below OHWM	Excavation below OHWM	Length of Channel Disturbed (feet)	Excavation below OHWM	Excavation below OHWM	Excavation below OHWM														
				Area (acre)	Block Mat or RCP (CY)	Roadway or Fill (CY)	Conduit (CY)	Total Volume (CY)	Area (acre)	Block Mat or RCP (CY)	Roadway or Fill (CY)	Conduit (CY)	Total Volume (CY)	Area (acre)	Block Mat or RCP (CY)	Roadway or Fill (CY)	Conduit (CY)	Total Volume (CY)	Area (acre)	Block Mat or RCP (CY)	Roadway or Fill (CY)	Conduit (CY)	Total Volume (CY)	Area (acre)	
Stream 17a; UNT ¹ to Long Run		539+00	Culvert and Fill Section	898	16	48	84	0.034	157	48	23	228	0.162	0	0	0	0	0	0	0	0	0	0	0	0
Stream 17-1; UNT ¹ to Long Run		519+50	Cut Section	73	183	0	183	0.005	0	0	0	0	0.000	0	0	0	0	0	0	0	0	0	0	0	0
Stream 17c; UNT ¹ to Long Run		CR 28 Ramp C-D	Modification	960	0	0	0	0.000	60	0	0	60	0.093	0	0	0	0	0	0	0	0	0	0	0	0
Stream 17c-1; UNT ¹ to Long Run		CR 28 Ramp C-D	Fill section	394	0	0	0	0.000	9	0	0	9	0.020	0	0	0	0	0	0	0	0	0	0	0	0
Stream 17d; UNT ¹ to Long Run		CR 28 10+75	Culvert and Fill Section	294	82	41	123	0.032	70	41	0	111	0.073	0	0	0	0	0	0	0	0	0	0	0	0
Stream 18; Long Run		494+50	Bridge	55	0	10	10	0.005	27	10	0	37	0.014	0	0	0	0	0	0	0	0	0	0	0	0
Stream 18-1; Long Run		473+50	Culvert	417	0	12	12	0.002	18	12	2	32	0.049	0	0	0	0	0	0	0	0	0	0	0	0
Stream 18b; UNT ¹ to Long Run		465+25	Modification	244	40	20	60	0.016	26	20	10	56	0.036	0	0	0	0	0	0	0	0	0	0	0	0
Stream 19; UNT ¹ to Long Run		485+50 to 430+50	Modification and Pier	530	118	3	121	0.054	148	3	0	151	0.060	0	0	0	0	0	0	0	0	0	0	0	0
Stream 19-1; UNT ¹ to Long Run		504+53	Culvert	662	67	17	84	0.037	42	17	0	59	0.068	0	0	0	0	0	0	0	0	0	0	0	0
Stream 20; UNT ¹ to Long Run		443+50	Bridge	23	10	0	10	0.004	0	0	0	0	0.000	0	0	0	0	0	0	0	0	0	0	0	0
Stream 20-1; UNT ¹ to Long Run		434+00	Bridge Fill	720	0	0	0	0.000	30	0	0	30	0.068	0	0	0	0	0	0	0	0	0	0	0	0
Stream 20-2; UNT ¹ to Long Run		449+25	Culvert and Modification	375	17	0	17	0.004	7	0	0	7	0.023	0	0	0	0	0	0	0	0	0	0	0	0
Stream 21; UNT ¹ to Long Run		404+00	Culvert	802	4	16	20	0.013	226	16	21	263	0.205	0	0	0	0	0	0	0	0	0	0	0	0
Stream 21a; UNT ¹ to Long Run		410+50	Culvert	745	41	4	45	0.003	21	4	5	30	0.040	0	0	0	0	0	0	0	0	0	0	0	0

404 / 401 TABLE C
 Nature of Proposed Activities by Impacted Feature for the Preferred Alternative

A. Streams																						
Site/Feature	Approximate Station Location	Proposed Structure or Action	Existing Channel Disturbed Due to Permanent Placement of Proposed Structure, Highway Fill, Channel Change or Channel Protection				Fill Below OHWM				Existing Channel Disturbed Due to Temporary Crossing											
			Length of Channel Disturbed (feet)	Roadway cut (CY)	Excavation below OHWM	Block Mat or RCP (CY)	Total Volume (CY)	Area (acre)	Roadway fill (CY)	Block Mat or RCP (CY)	Conduit (CY)	Total Volume (CY)	Area (acre)	Total Area Impact (acre)	Length of Channel Disturbed (feet)	Excavation below OHWM	Volume (CY)	Area (acre)	Fill Below OHWM	Volume (CY)	Area (acre)	
Stream 22a;b; UNT ¹ to Little Scioto River	375+00	Culvert and Modification	1,287	57	6	63	0.015	180	6	0	196	0.195	0	0	0	0	0	0	0	0	0	0
Stream 22a-1; UNT ¹ to Little Scioto River	TR 234 R C STA 381+70	Cut Section	318	94	0	94	0.012	15	0	15	0.024	0	0	0	0	0	0	0	0	0	0	0
Stream 23/K; UNT ¹ to Little Scioto River	364+50	Culvert	415	19	5	23	0.007	57	5	13	75	0.041	0	0	0	0	0	0	0	0	0	0
Stream 24-1; UNT ¹ to Little Scioto River	353+88	Culvert	333	36	11	47	0.005	12	11	9	32	0.075	0	0	0	0	0	0	0	0	0	0

404 / 401 TABLE C
 Nature of Proposed Activities by Impacted Feature for the Preferred Alternative

B. PONDS																						
Site / Feature	Approx. Station Location	Proposed Structure or Action	Existing Channel Disturbed Due to Placement of Proposed Structure, Highway Fill, Channel Change or Channel Protection				Fill Below OHWM				Existing Channel Disturbed Due to Temporary Crossing											
			Length of Channel Disturbed (feet)	Excavation Below OHWM	Volume (CY)	Area (acre)	Volume (CY)	Area (acre)	Volume (CY)	Area (acre)	Length of Channel Disturbed (feet)	Excavation / Fill Below OHWM	Volume (CY)	Area (acre)								
Pond - 4	466+00	Embankment Fill	N/A	0	0	13,726	1.418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pond - 5	448+00	Embankment Fill	N/A	0	0	329	0.034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pond - 6	410+00	Embankment Fill	N/A	0	0	1,830	0.189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pond - 7	396+00	Embankment Fill	N/A	0	0	5,731	0.592	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pond - 8	380+00	Embankment Fill	N/A	0	0	4,521	0.467	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

404 / 401 TABLE C
Nature of Proposed Activities by Impacted Feature for the Preferred Alternative

C. WETLANDS									
Feature(s)	Approx. Station Location	Description	Total Area Impacted (acre)	Proposed Action	Direct Impacts (within construction limits)*			Indirect Impact Area (outside construction limits)	
					Volume Excavated (CY)	Volume Filled (CY)	Area Excavated and/or Filled		
Wetland 1	SR 823 535+10	Non-Isolated	0.141	Embankment Fill	0	115	0.072	0.069	
Wetland 2/3	SR 823 535+40	Non-Isolated	0.517	Embankment Fill	0	834	0.517	0.000	
Wetland 4	CR 28R C/D	Non-Isolated	0.089	Embankment Fill	0	3	0.002	0.087	
W8WL6	CR 28 R C 516+60/ R D 541+40	Non-Isolated	0.221	Embankment Fill	0	334	0.207	0.014	
W8WL8	CR 28R C 519+00/ R D 539+00	Non-Isolated	0.020	Embankment Fill	0	32	0.020	0.000	
Wetland 5/ W8WL7	CR 28R C 514+50/ R D 543+40	Non-Isolated	0.066	Embankment Fill and Concrete	0	107 (101 CY embankment fill and 6 CY concrete)	0.066	0.000	
Wetland 6	CR 28R C/D	Non-Isolated	0.018	Embankment Fill	0	3	0.002	0.016	
Wetland 7	CR 28R C 532+25	Non-Isolated	0.108	Embankment Fill	0	174	0.108	0.000	
Wetland 8	CR 28R C/D	Non-Isolated	0.028	Embankment Fill	0	45	0.028	0.000	
Wetland 9	CR 28R C/D	Non-Isolated	0.073	Embankment Fill	0	102	0.063	0.010	

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404 / 401 TABLE C
Nature of Proposed Activities by Impacted Feature for the Preferred Alternative

C. WETLANDS									
Feature(s)	Approx. Station Location	Description	Total Area Impacted (acre)	Proposed Action	Direct Impacts (within construction limits)*			Indirect Impact Area (outside construction limits)	
					Volume Excavated (CY)	Volume Filled (CY)	Area Excavated and/or Filled		
Wetland 12	CR 28R A/B	Non-Isolated	0.811	Embankment Fill	0	852	0.528	0.283	
Wetland 13	CR 28R A/B	Non-Isolated	0.233	Embankment Fill	0	8	0.005	0.228	
Wetland 14	CR 28R A/B	Non-Isolated	0.010	Embankment Fill	0	0	0.000	0.010	
Wetland 15	CR 28R A/B	Non-Isolated	0.041	Embankment Fill	0	65	0.041	0.000	
Wetland 16	Flowers-Ison Road	Non-Isolated	0.036	Embankment Fill	22	58	0.036	0.000	
Wetland 17	412+50	Non-Isolated	0.001	Embankment Fill	0	0	0.000	0.001	
Wetland 18/ W9WL2	411+11	Non-Isolated	0.038	Embankment Fill and Concrete	0	58 (52 CY embankment fill and 6 CY concrete)	0.036	0.002	
Wetland 19	410+00	Non-Isolated	0.180	Embankment Fill	0	290	0.180	0.000	
Wetland 20	409+00	Non-Isolated	0.062	Embankment Fill	0	93	0.058	0.004	
Wetland 21	408+00	Non-Isolated	0.082	Embankment Fill	0	130	0.081	0.001	
W9WL4	405+00	Non-Isolated	0.029	Embankment Fill	0	47	0.029	0.000	

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404 / 401 TABLE C
Nature of Proposed Activities by Impacted Feature for the Preferred Alternative

C. WETLANDS									
Feature(s)	Approx. Station Location	Description	Total Area Impacted (acre)	Proposed Action	Direct Impacts (within construction limits)*			Indirect Impact Area (outside construction limits)	
					Volume Excavated (CY)	Volume Filled (CY)	Area Excavated and/or Filled		
Wetland 22	395+50	Non-Isolated	0.344	Embankment Fill	0	555	0.344	0.000	
Wetland 24	380+00/ TR 234R A	Non-Isolated	0.069	Embankment Fill	0	112	0.069	0.000	
Wetland 26	388+00	Non-Isolated	0.483	Embankment Fill	0	780	0.483	0.000	
Wetland 28	380+00	Non-Isolated	0.101	Embankment Fill	0	162	0.101	0.000	
Wetland 29	458+00	Non-Isolated	0.001	Embankment Fill	0	0	0.000	0.001	
Wetland 30	447+00	Non-Isolated	0.011	Embankment Fill	0	18	0.011	0.000	
Wetland 31	446+00	Non-Isolated	0.027	Embankment Fill	0	44	0.027	0.000	
Wetland 32	541+00	Non-Isolated	0.019	Embankment Fill	0	0	0.000	0.019	
Wetland 33	541+00	Non-Isolated	0.021	Embankment Fill	0	34	0.021	0.000	
Wetland 34	541+00	Non-Isolated	0.013	Embankment Fill	0	21	0.013	0.000	

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404 / 401 TABLE C
Nature of Proposed Activities by Impacted Feature for the Preferred Alternative

C. WHOLE PROJECT SUMMARY OF ACTIVITIES																
Total Project Linear Stream Disturbances			Total Project Excavation (No pond excavation proposed)				Total Project Fill									
Total Length Disturbed due to Proposed Structures, Highway Fill, Channel Change or Channel Protection	Length Disturbed due to Temporary Crossing	Net Length Disturbed	Stream Excavated		Wetland Excavated		Total Excavation		Stream Filled (standard roadfill, channel protection, temporary crossings & other materials)		Wetland Filled		Pond Filled		Total Filled	
			Volume (CY)	Area (acre)	Volume (CY)	Area (acre)	Volume (CY)	Area (acre)	Volume (CY)	Area (acre)	Volume (CY)	Area (acre)	Volume (CY)	Area (acre)	Volume (CY)	Area (acre)
9,825 feet	300 feet	9,525 feet	976	0.249	22	0.007	998	0.256	2,556	1,472	5,076	3,148	26,137	2,700	33,768	7,320

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