

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
HAM-75-3.84
HAM-74-1908R
(STORM) (BU-25)

HAMILTON COUNTY
CITY OF CINCINNATI

PROJECT DESCRIPTION

THIS IS PHASE 5A OF THE HAMILTON 75 CORRIDOR PROJECTS (MCE). THE PROJECT ADDS A LANE TO IR 75 SB, PROVIDES 4-LANE CONTINUITY NB, AND RECONFIGURES IR 74 EB RAMP TO IR 75. THE PROJECT ALSO INCLUDES SURFACE COURSE AND ADDITIONAL PAVEMENT WORK TO THE SOUTH AND IMPROVEMENTS TO RAMP A AT THE HOPPLE ST INTERCHANGE.

BUILDABLE UNIT 25 DESCRIPTION

THIS BU INCLUDES THE RECONSTRUCTION OF THE STORM SEWER TRUNK LINE UNDER BRIDGES 1908R & 1908S.

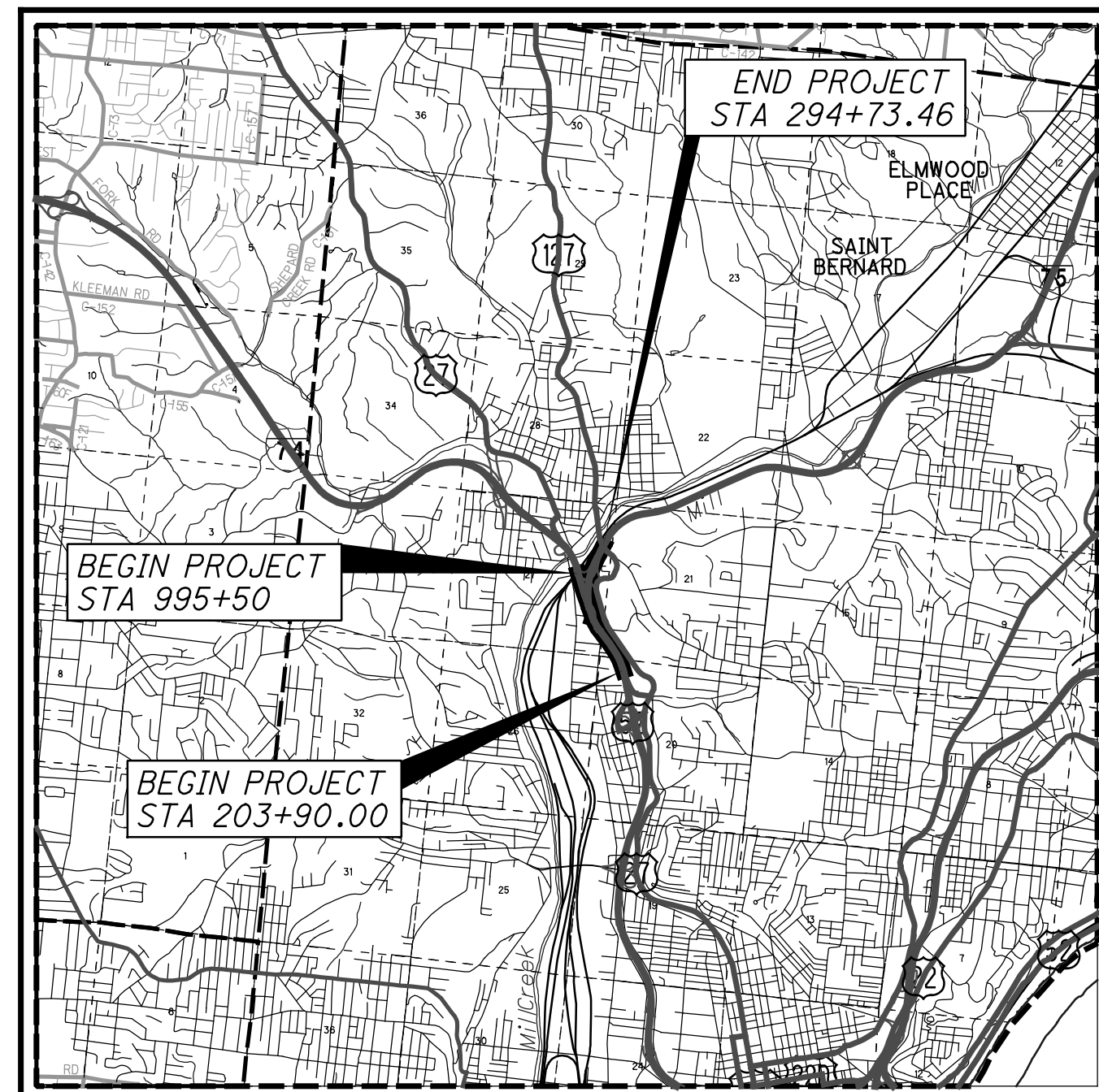
LIMITED ACCESS

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.

2016 SPECIFICATIONS

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

I HEREBY APPROVE 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.



LOCATION MAP

LATITUDE: 39° 09' 03" LONGITUDE: -84° 32' 24"



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

DESIGN DESIGNATION

	IR 75		IR 74		DIRECTIONAL ROADWAY	
	SOUTH OF MITCHELL	SOUTH OF IR 74	WEST OF BEEKMAN	EAST OF BEEKMAN	IR 75 NB TO IR 74 WB	IR 74 EB TO IR 75 SB
CURRENT ADT (2010)	149,400	152,100	75,000	88,300	25,300	25,300
DESIGN YEAR ADT (2030)	174,300	179,200	89,300	102,000	29,800	29,800
DESIGN HOURLY VOLUME (2030)	14,640	15,050	8,040	9,180	4,100	4,380
DIRECTIONAL DISTRIBUTION	0.54	0.70	0.72	0.73	1.00	1.00
TRUCKS (24 HOUR B&C)	0.16	0.13	0.15	0.13	0.03	0.08
DESIGN SPEED	60 MPH	60 MPH	60 MPH	60 MPH	50 MPH	50 MPH
LEGAL SPEED	55 MPH	55 MPH	55 MPH	55 MPH	50 MPH	50 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	03 URBAN INTERSTATE	03 URBAN INTERSTATE	03 URBAN INTERSTATE	03 URBAN INTERSTATE	03 URBAN INTERSTATE	03 URBAN INTERSTATE

NHS PROJECT ----- YES

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS
STOP. SIGHT DIST. - SB IR 75 (CURVE 6)	4/6/18	SEE BU-14
SHOULDER WIDTH - IR 74-1892R BRIDGE	4/10/18	SEE BU-14
SHOULDER WIDTH - RAMP P 1908S BRIDGE	4/11/18	SEE BU-14
CURVE RADIUS - RAMP P 1908S BRIDGE	4/11/18	SEE BU-14
STOP. SIGHT DIST. - RAMP P 1908S BRIDGE	4/11/18	SEE BU-14
S.E. RATE - IR 74 EB CURVE 13, 1908R BRIDGE	4/26/18	SEE BU-14

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2
PLAN & PROFILE - IR 74 EB	3-4

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS											SUPPLEMENTAL SPECIFICATIONS	
BP-1.1	7/28/00	DM-1.1	7/21/17	RM-4.5	7/21/17	HL-20.21	1/19/18	MT-98.11	1/20/17	TC-21.20	1/19/18	
BP-2.1	7/17/15	DM-1.2	1/18/13	RM-4.6	7/19/13	HL-20.24	1/19/18	MT-98.20	7/18/14	TC-21.50	7/15/16	800-2016 1/19/18
BP-2.2	7/18/08	DM-1.3	7/18/14			HL-30.11	1/19/18	MT-98.21	7/18/14	TC-22.10	10/18/13	804 1/15/16
BP-2.3	7/18/14	DM-2.1	1/18/13	A-1-69	7/19/02	HL-30.21	1/17/14	MT-98.29	1/20/17	TC-22.20	1/17/14	806 3/2/15
BP-2.4	7/19/13	DM-4.1	1/15/16	AS-1-15	7/17/15	HL-30.22	1/17/14	MT-98.30	7/21/17	TC-41.30	10/18/13	808 10/16/15
BP-3.1	7/18/14	DM-4.2	7/20/12	AS-2-15	1/19/18	HL-30.31	1/17/14	MT-99.30	1/19/18	TC-42.10	10/18/13	809 1/19/18
BP-6.1	7/19/13	DM-4.3	1/15/16	EXJ-4-87	1/19/18	HL-30.32	1/17/14	MT-99.60	7/15/16	TC-42.20	10/18/13	814 7/15/16
BP-8.1	7/18/08	DM-4.4	1/15/16	GSD-1-96	7/19/02	HL-30.33	1/17/14	MT-101.70	1/17/14	TC-52.10	10/18/13	821 4/20/12
				PCB-91	1/18/13	HL-30.41	1/19/18	MT-101.75	7/15/16	TC-52.20	1/19/18	832 1/17/14
CB-1.1	1/15/16	MGS-1.1	1/19/18	PSID-1-13	7/15/16	HL-40.10	1/20/17	MT-101.80	1/16/18	TC-61.30	1/20/17	839 7/17/15
CB-1.2	1/15/16	MGS-2.1	1/19/18	RB-1-55	7/19/13	HL-40.20	1/20/17	MT-101.90	7/21/17	TC-65.10	1/17/14	840 7/20/18
CB-1.3	1/15/16	MGS-3.1	1/19/18	SBR-1-13	1/14/14	HL-50.11	1/16/15	MT-102.10	1/20/17	TC-65.11	7/21/17	866 4/21/17
CB-2.1	1/15/16	MGS-3.2	1/18/13	SBR-2-13	1/14/14	HL-50.21	1/19/18	MT-102.20	7/18/14	TC-71.10	1/19/18	867 4/15/16
CB-2.2	1/15/16	MGS-4.2	7/19/13	SICD-1-96	7/18/14	HL-60.12	7/15/16	MT-103.10	1/19/18	TC-72.20	7/15/16	902 12/31/12
CB-2.3	1/15/16	MGS-4.3	1/18/13	SICD-2-14	7/18/14	HL-60.21	1/16/15	MT-104.10	10/16/15	TC-73.20	7/21/17	904 7/15/16
CB-3.1	1/15/16	MGS-5.2	7/15/16	VPF-1-90	1/19/18	HL-60.31	7/21/17	MT-105.10	7/19/13			908 10/20/17
CB-3.3	1/15/16	MGS-5.3	7/15/16									914 7/15/16
				MGS-6.1	1/19/18					ITS-13.10	7/17/15	921 4/20/12
I-2.1	1/15/16			HL-10.11	1/19/18	MT-95.30	7/21/17	TC-7.65	1/15/16	ITS-14.10	7/17/15	939 7/17/15
I-2.2	1/15/16			HL-10.12	1/20/17	MT-95.31	7/21/17	TC-9.10	1/19/18	ITS-14.11	7/17/15	
I-2.3	1/15/16	RM-1.1	7/18/14	HL-10.13	1/20/17	MT-95.32	7/21/17	TC-9.30	1/19/18	ITS-15.10	7/17/15	
I-2.4	1/15/16	RM-4.1	7/21/17	HL-10.15	7/17/15	MT-95.50	7/21/17	TC-12.30	1/19/18	ITS-15.11	7/17/15	
		RM-4.3	7/18/14	HL-10.31	1/19/18	MT-95.45	7/21/17	TC-15.115	10/18/13	ITS-50.10	1/19/18	
MH-1.2	1/15/16	RM-4.4	7/21/17	HL-20.11	4/21/17	MT-95.73	1/19/18	TC-16.21	1/19/18			
				HL-20.13	1/19/18	MT-98.10	1/20/17	TC-21.10	7/21/17			

ENGINEERS SEAL:



SIGNED: *Bruce Fraser*
DATE: 02/12/2019

PLAN PREPARED BY:
AMERICAN STRUCTUREPOINT INC.
2550 CORPORATE EXCHANGE DR. STE 300
COLUMBUS, OH 43231
TEL 614.901.2235 FAX 614.901.2236
www.structurepoint.com

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
(Non-members must be called directly)

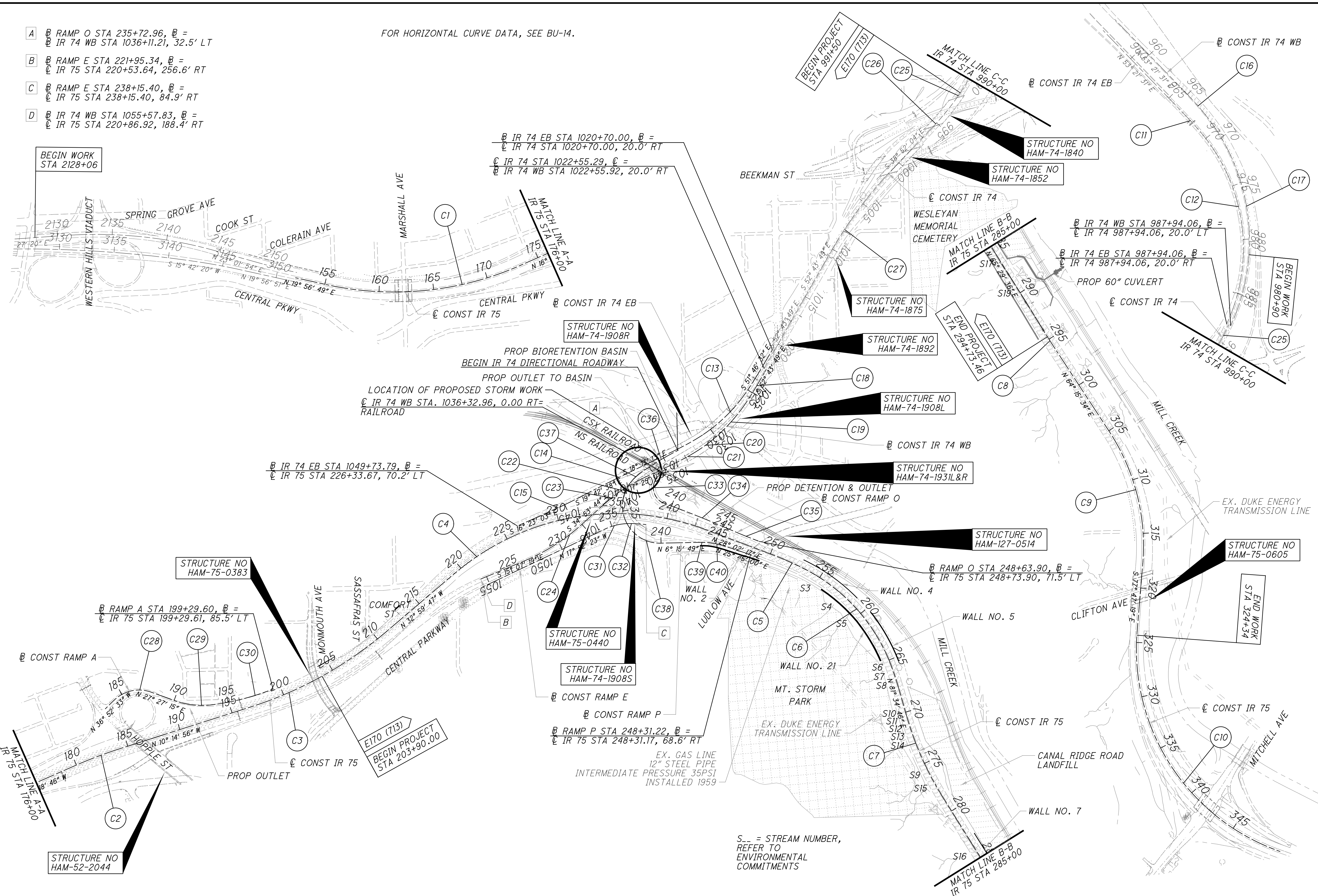
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE
1-800-925-0988

FEDERAL PROJECT NO. E170 (713)
PID NO. 104667
CONSTRUCTION PROJECT NO. 183000
RAILROAD INVOLVEMENT CSXT (CSX OP# OH1179) NORFOLK SOUTHERN
HAM-75-3.84

L:stutler 2/12/2019 7:48:17 PM
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- A $\text{RAMP O STA } 235+72.96, \text{B} =$
 $\text{IR } 74 \text{ WB STA } 1036+11.21, 32.5' \text{ LT}$
- B $\text{RAMP E STA } 221+95.34, \text{B} =$
 $\text{IR } 75 \text{ STA } 220+53.64, 256.6' \text{ RT}$
- C $\text{RAMP E STA } 238+15.40, \text{B} =$
 $\text{IR } 75 \text{ STA } 238+15.40, 84.9' \text{ RT}$
- D $\text{IR } 74 \text{ WB STA } 1055+57.83, \text{B} =$
 $\text{IR } 75 \text{ STA } 220+86.92, 188.4' \text{ RT}$

FOR HORIZONTAL CURVE DATA, SEE BU-14.



0 200 400 800
 HORIZONTAL SCALE IN FEET
 CALCULATED BY JS
 CHECKED BY JS

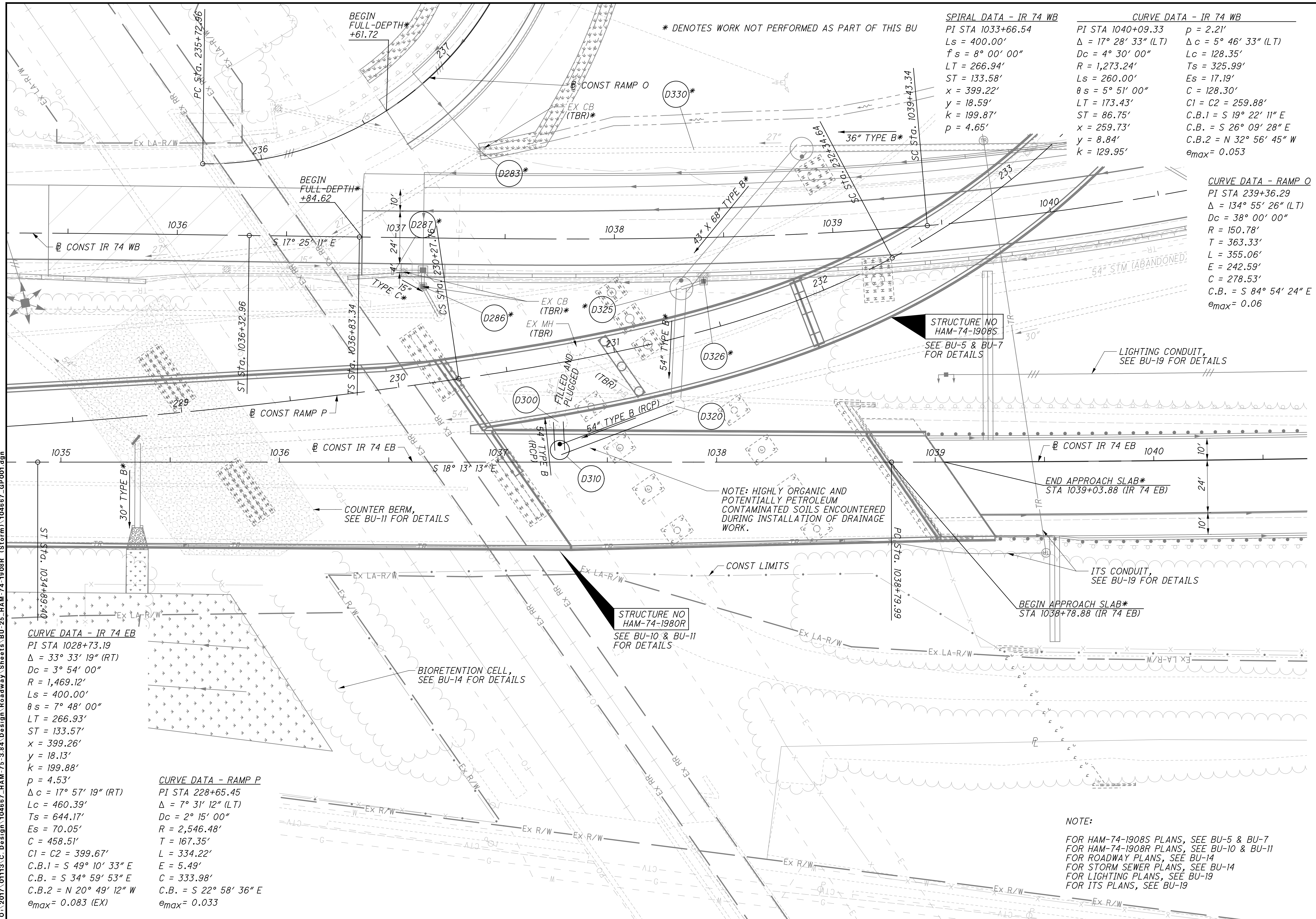
SCHEMATIC PLAN

HAM-75-3.84

BRamsdell
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S... = STREAM NUMBER,
REFER TO
ENVIRONMENTAL
COMMITMENTS

BRamsdell
 10/10/2022 5:36:18 PM
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CURVE DATA - IR 74 EB
 PI STA 1028+73.19
 $\Delta = 33^\circ 33' 19''$ (RT)
 $Dc = 3^\circ 54' 00''$
 $R = 1,469.12'$
 $Ls = 400.00'$
 $\theta s = 7^\circ 48' 00''$
 $LT = 266.93'$
 $ST = 133.57'$
 $x = 399.26'$
 $y = 18.13'$
 $k = 199.88'$
 $p = 4.53'$
 $\Delta c = 17^\circ 57' 19''$ (RT)
 $Lc = 460.39'$
 $Ts = 644.17'$
 $Es = 70.05'$
 $C = 458.51'$
 $C1 = C2 = 399.67'$
 $C.B.1 = S 49^\circ 10' 33'' E$
 $C.B. = S 34^\circ 59' 53'' E$
 $C.B.2 = N 20^\circ 49' 12'' W$
 $\theta_{max} = 0.083$ (EX)

CURVE DATA - RAMP P
 PI STA 228+65.45
 $\Delta = 7^\circ 31' 12''$ (LT)
 $Dc = 2^\circ 15' 00''$
 $R = 2,546.48'$
 $T = 167.35'$
 $L = 334.22'$
 $E = 5.49'$
 $C = 333.98'$
 $C.B. = S 22^\circ 58' 36'' E$
 $\theta_{max} = 0.033$

SPIRAL DATA - IR 74 WB
 PI STA 1033+66.54
 $Ls = 400.00'$
 $f s = 8^\circ 00' 00''$
 $LT = 266.94'$
 $ST = 133.58'$
 $x = 399.22'$
 $y = 18.59'$
 $k = 199.87'$
 $p = 4.65'$

CURVE DATA - IR 74 WB
 PI STA 1040+09.33
 $\Delta = 17^\circ 28' 33''$ (LT)
 $Dc = 4^\circ 30' 00''$
 $R = 1,273.24'$
 $Ls = 260.00'$
 $\theta s = 5^\circ 51' 00''$
 $ST = 86.75'$
 $x = 259.73'$
 $y = 8.84'$
 $k = 129.95'$
 $p = 2.21'$
 $\Delta c = 5^\circ 46' 33''$ (LT)
 $Lc = 128.35'$
 $Ts = 325.99'$
 $C = 128.30'$
 $C1 = C2 = 259.88'$
 $C.B.1 = S 19^\circ 22' 11'' E$
 $C.B. = S 26^\circ 09' 28'' E$
 $C.B.2 = N 32^\circ 56' 45'' W$
 $\theta_{max} = 0.053$

CURVE DATA - RAMP O
 PI STA 239+36.29
 $\Delta = 134^\circ 55' 26''$ (LT)
 $Dc = 38^\circ 00' 00''$
 $R = 150.78'$
 $T = 363.33'$
 $L = 355.06'$
 $E = 242.59'$
 $C = 278.53'$
 $C.B. = S 84^\circ 54' 24'' E$
 $\theta_{max} = 0.06$



PLAN - IR 74 EB & WB
 STA. 1035+00 TO STA. 1040+50

HAM-75-3.84

NOTE:
 FOR HAM-74-1908S PLANS, SEE BU-5 & BU-7
 FOR HAM-74-1908R PLANS, SEE BU-10 & BU-11
 FOR ROADWAY PLANS, SEE BU-14
 FOR STORM SEWER PLANS, SEE BU-14
 FOR LIGHTING PLANS, SEE BU-19
 FOR ITS PLANS, SEE BU-19

