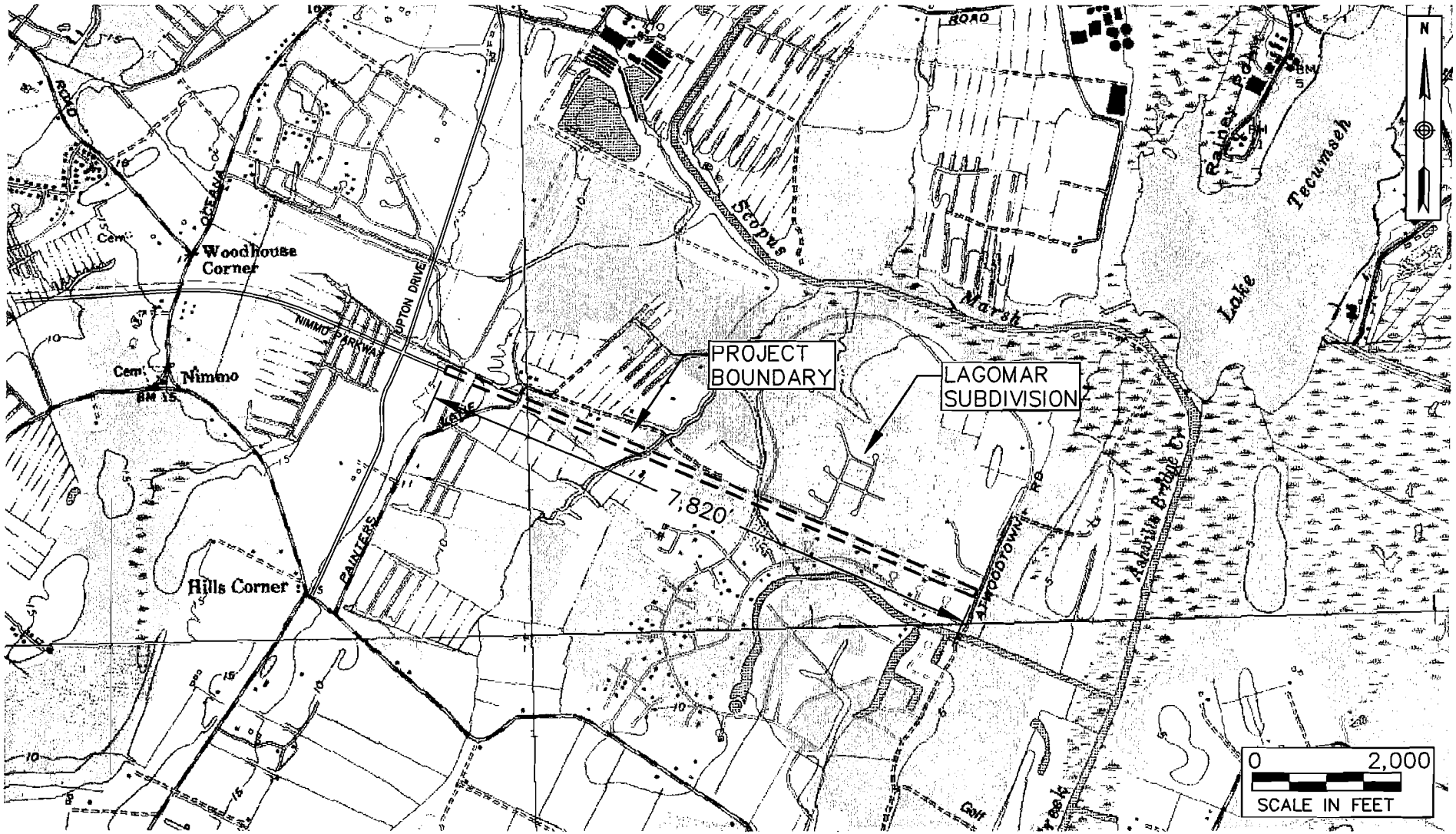

SOURCE: USGS PRINCESS ANNE QUAD SHEET

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ADJACENT PROPERTY OWNERS:

1.
2.

DATUM: MEAN LOW WATER

NIMMO PARKWAY - ROADWAY IMPROVEMENTS

VICINITY MAP

AT: UNNAMED TRIBS. TO SCOPUS MARSH

IN: CITY OF VIRGINIA BEACH

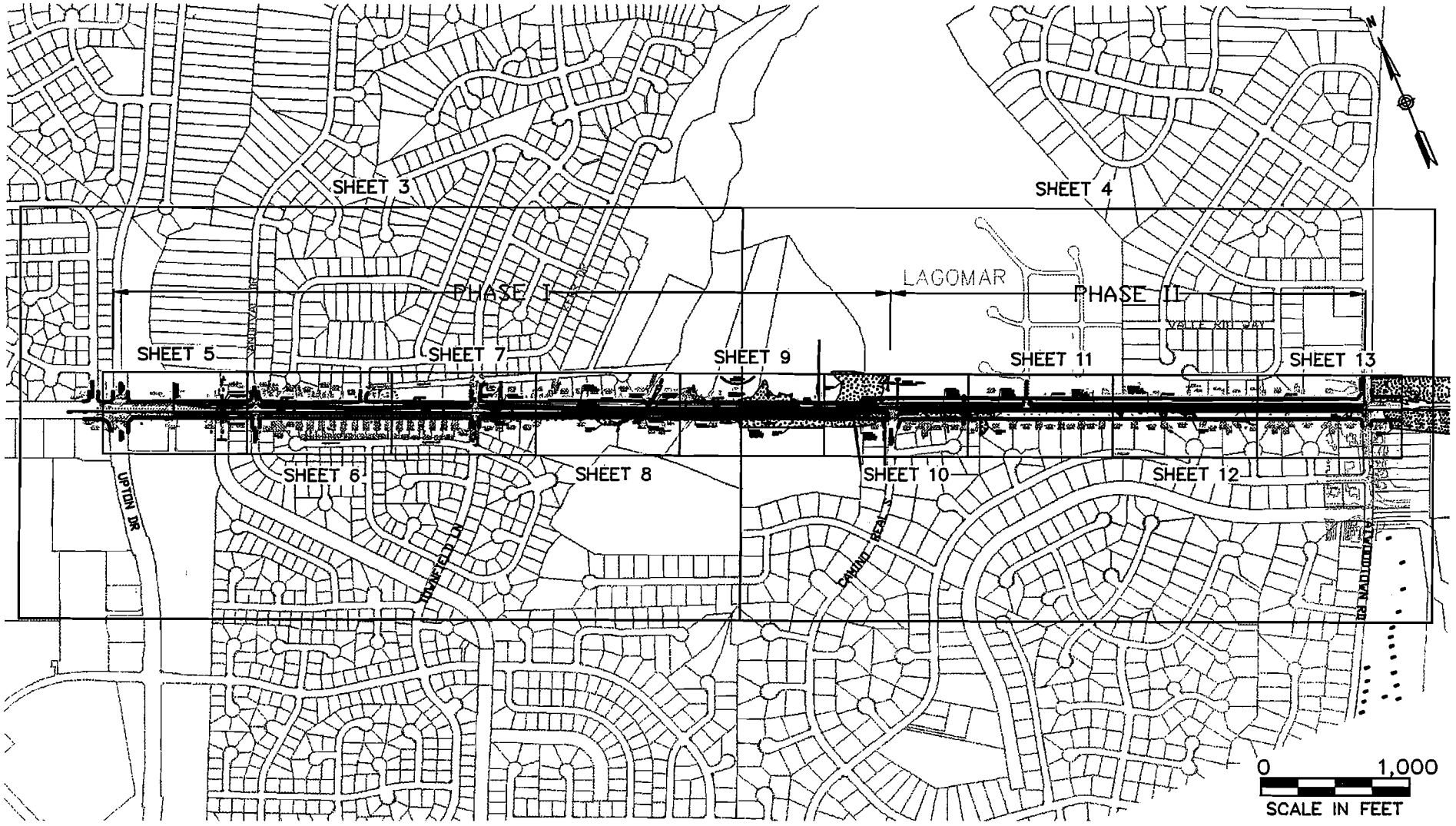
PURPOSE: ROADWAY EXTENSION - ACCESS

APPLICATION BY: CITY OF VIRGINIA BEACH

DATE: AUGUST, 2005

SHEET 1 OF 20

31833-JPA



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SHEET INDEX

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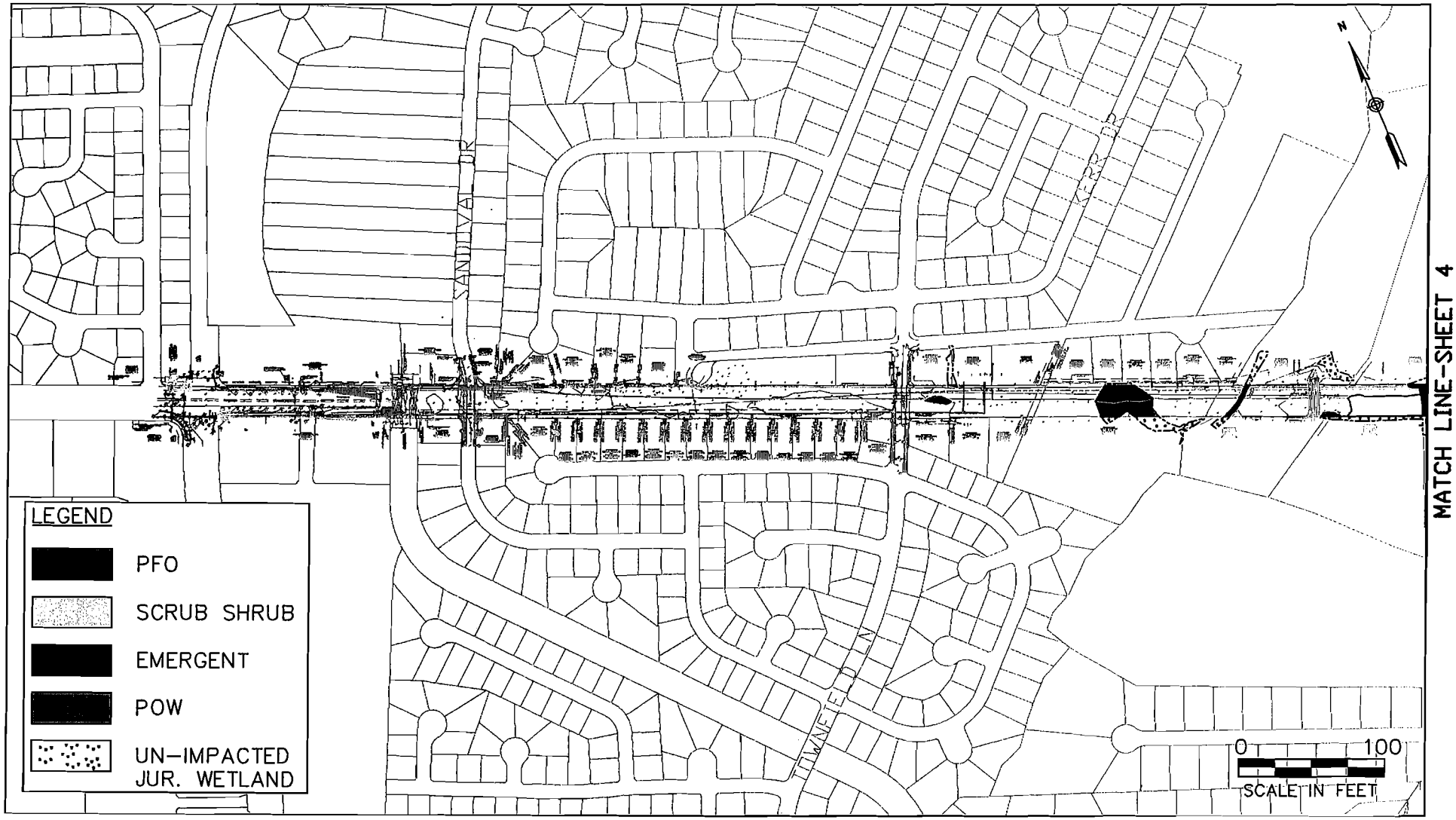

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EXISTING CONDITIONS

AT: UNNAMED TRIBS. TO SCOPUS MARSH
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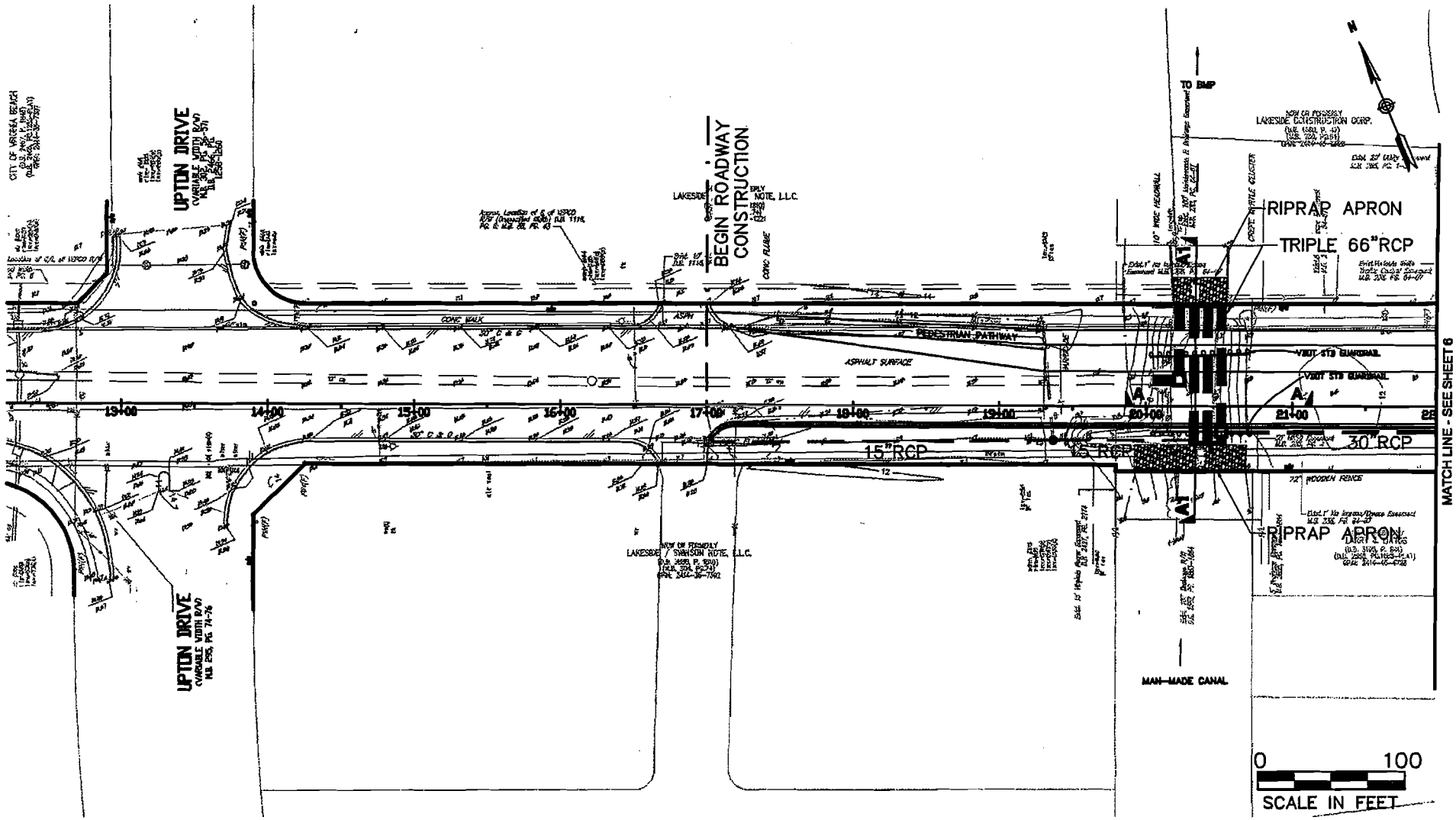

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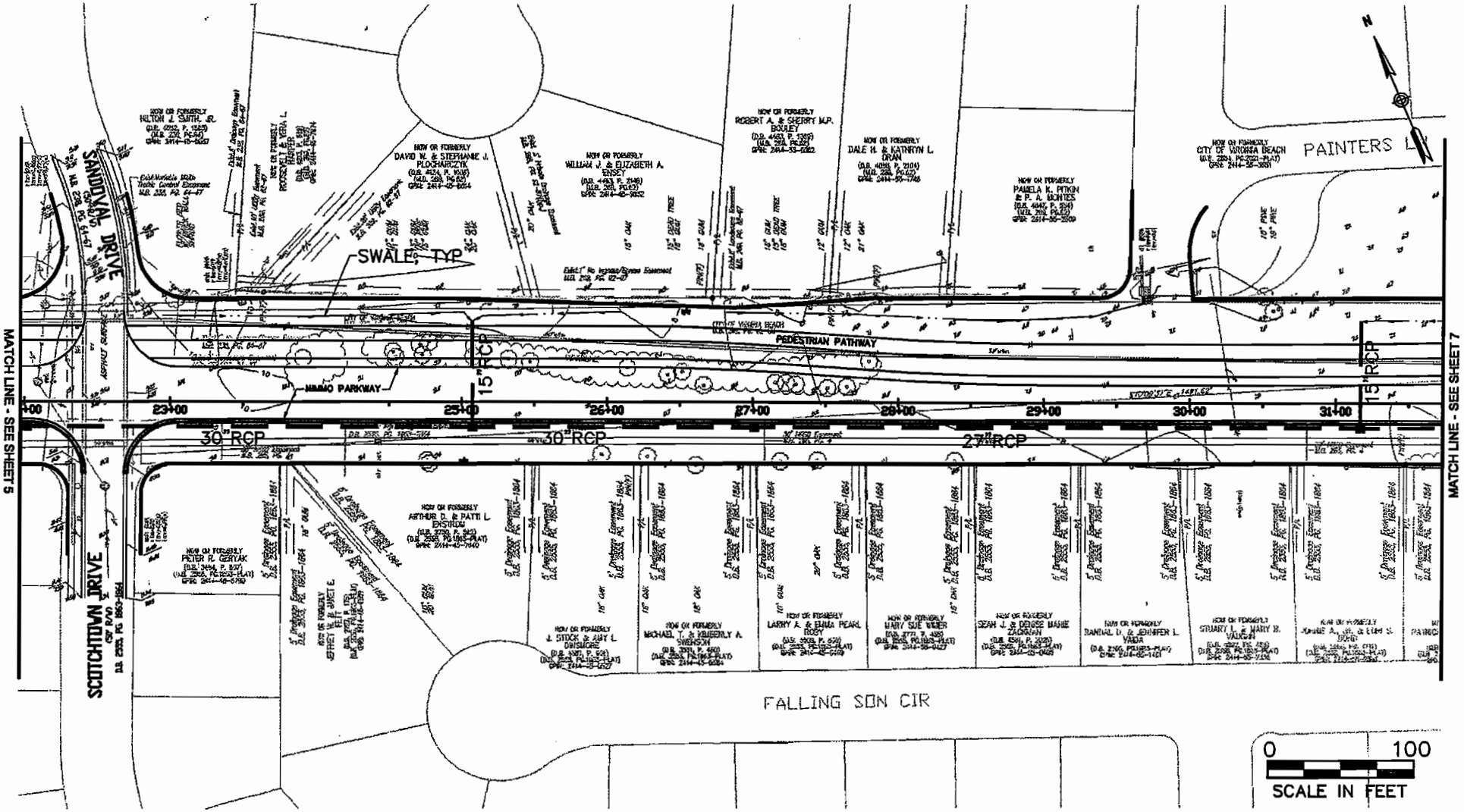

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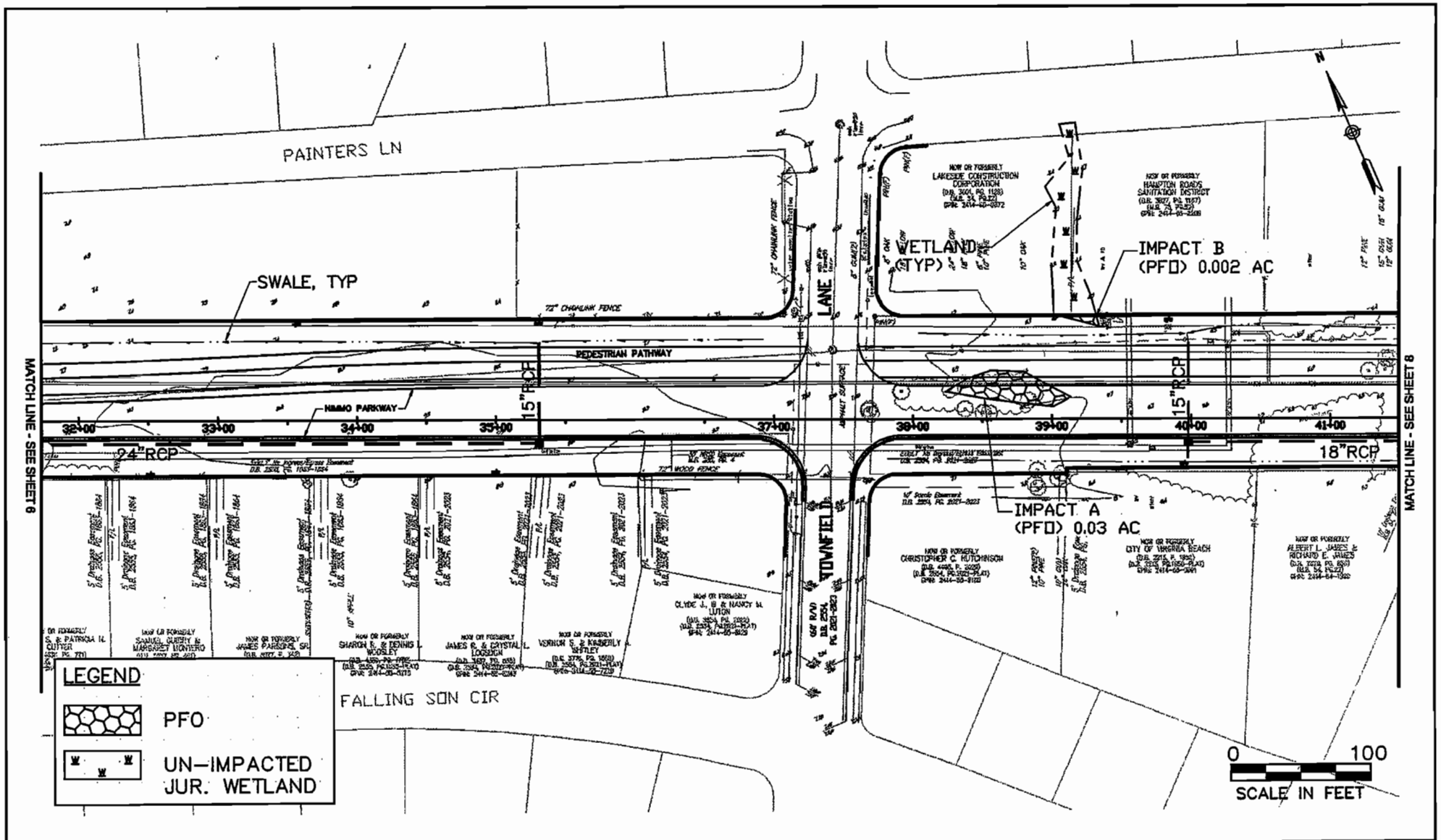

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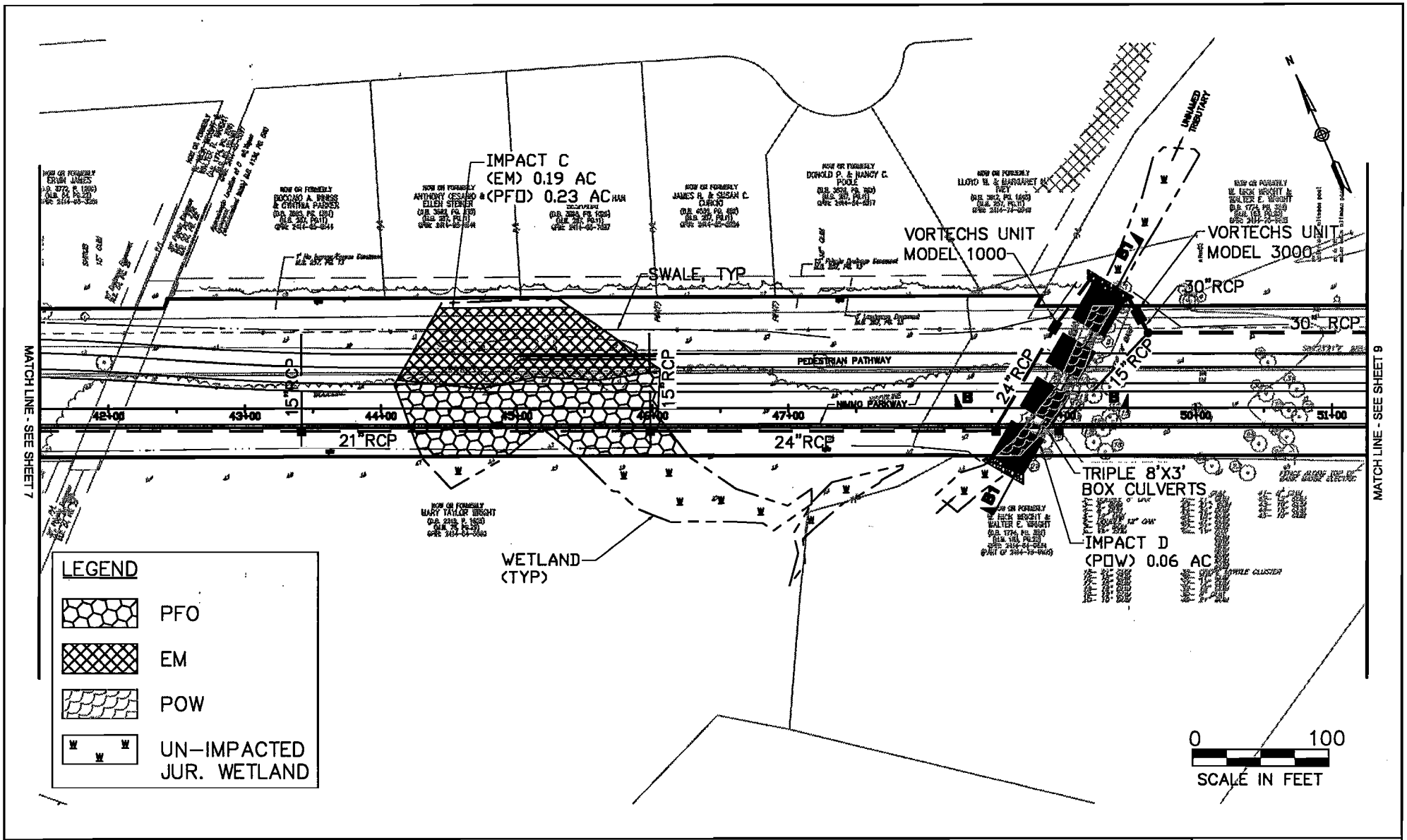

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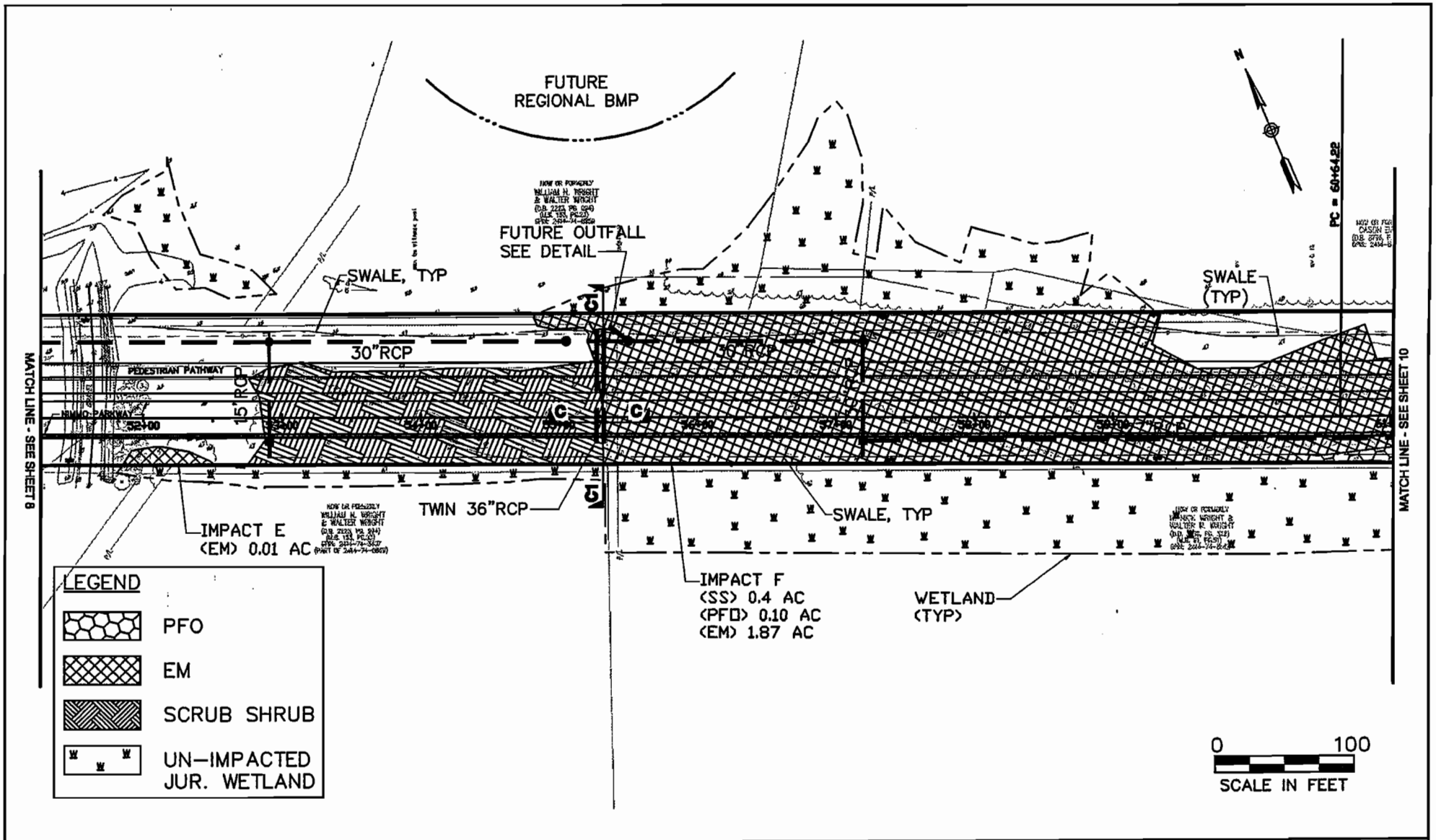

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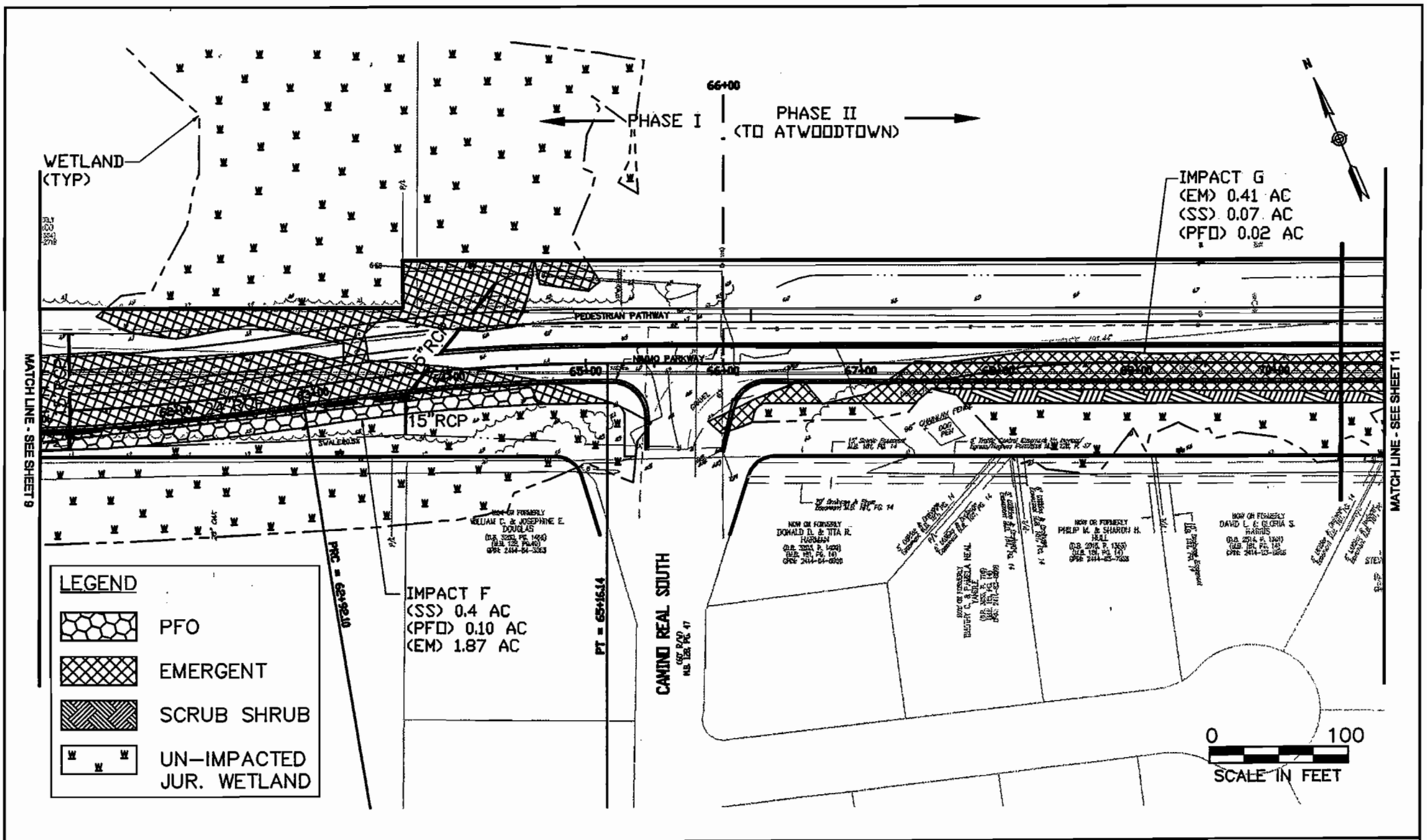

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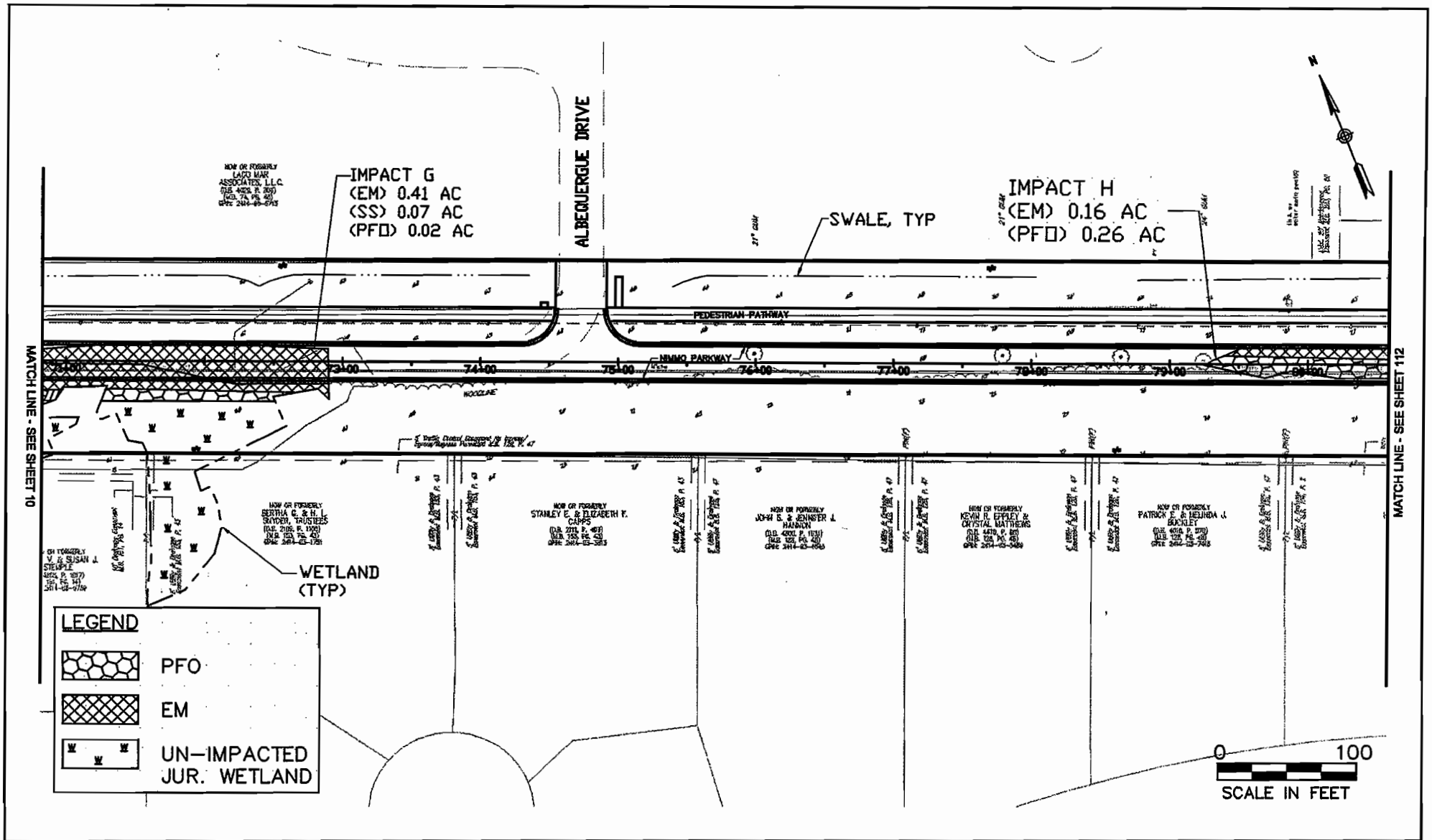

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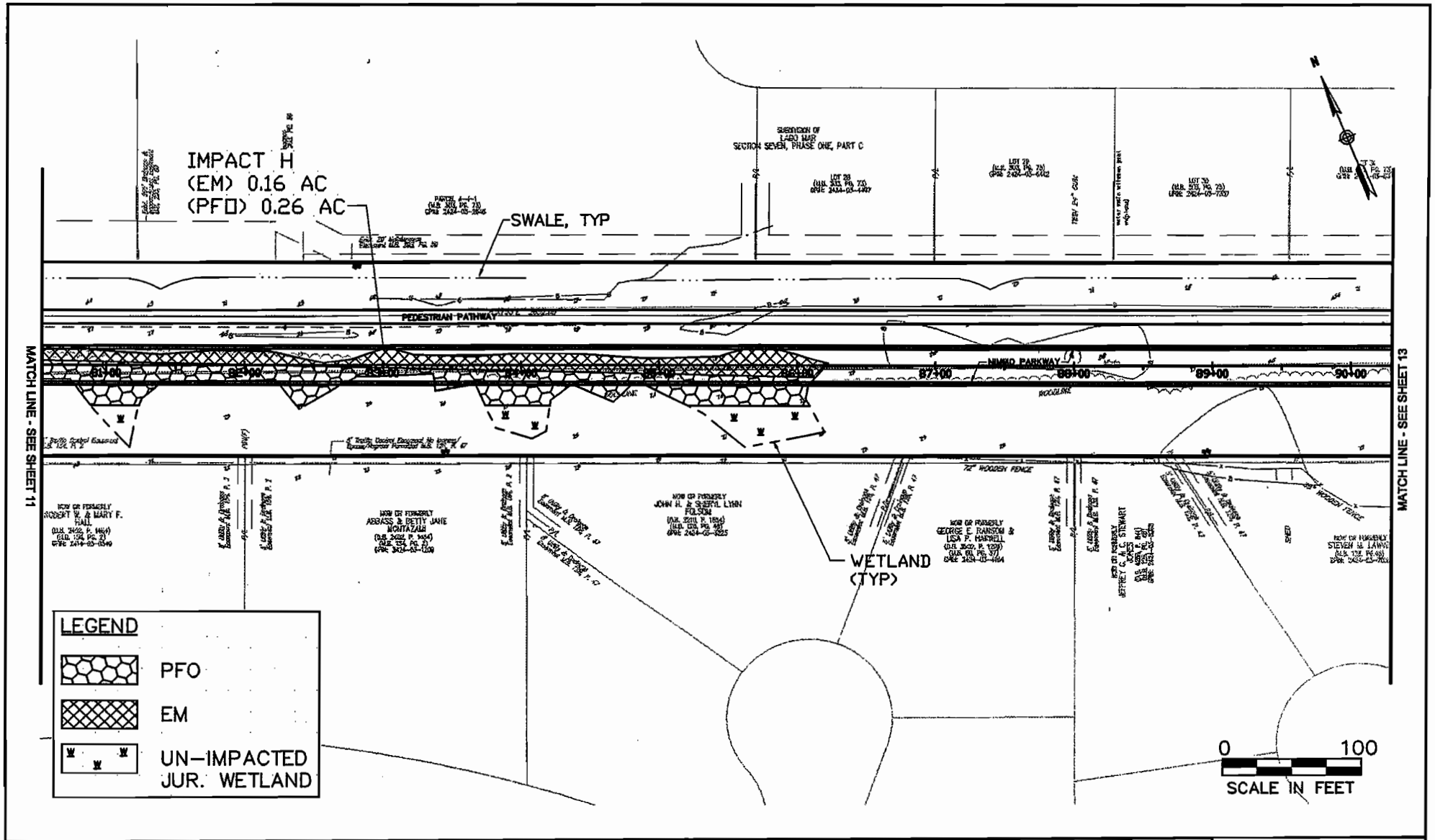

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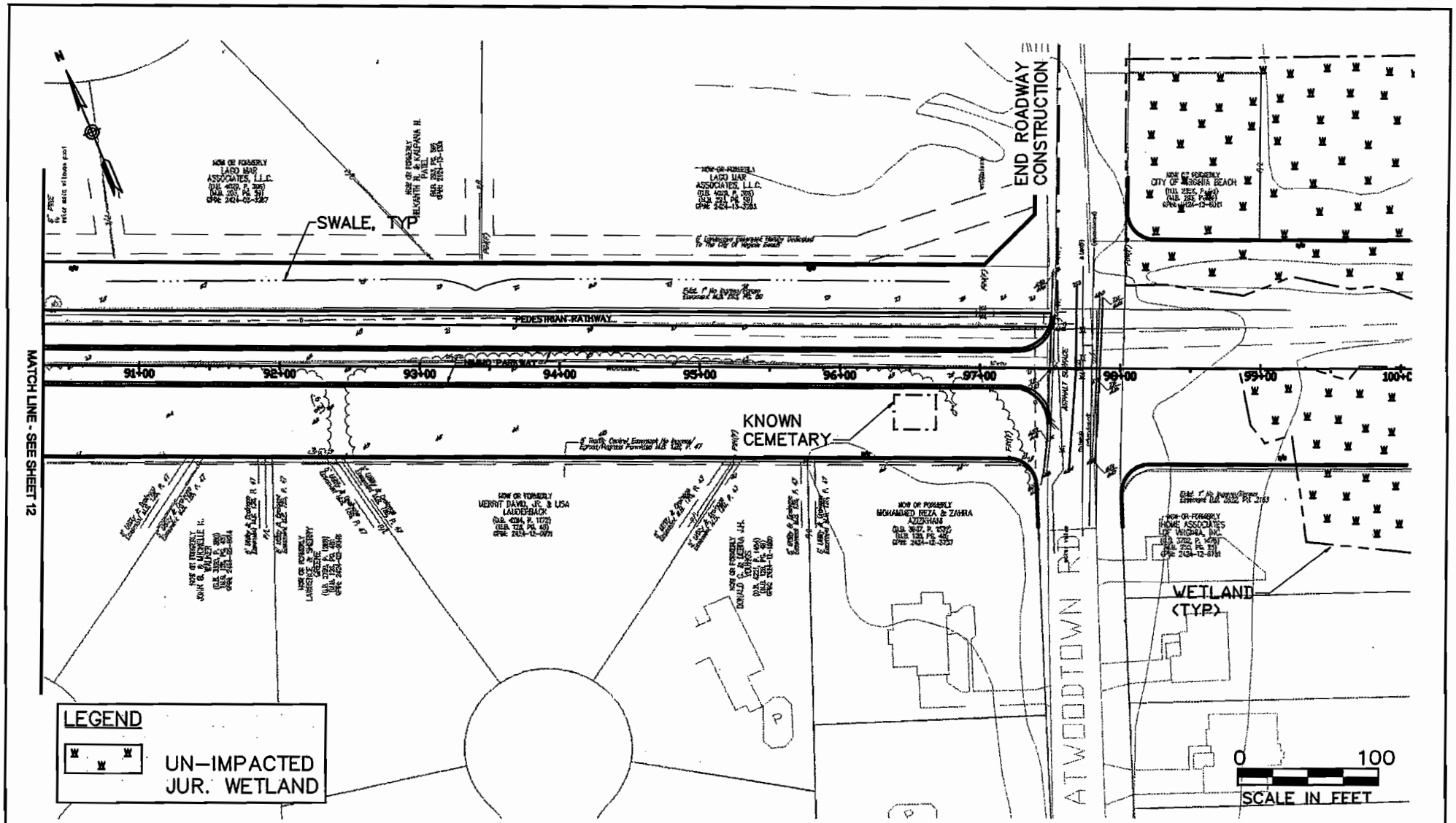

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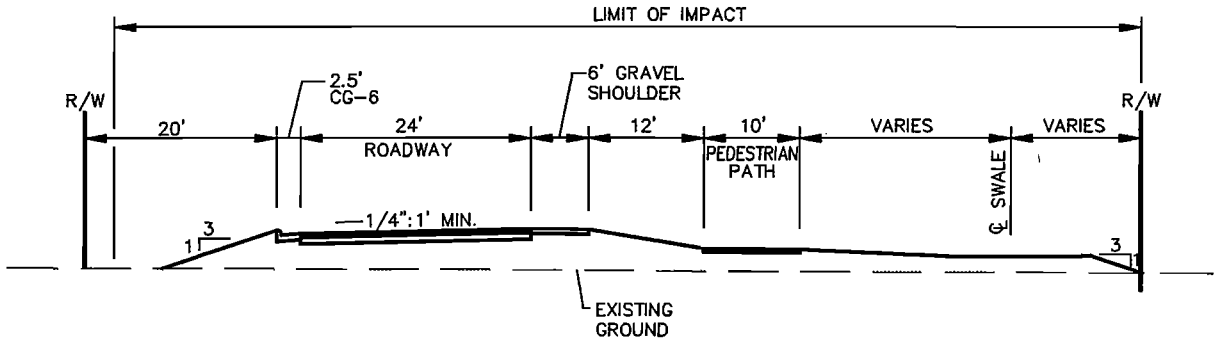

Typical Roadway Section - Phase I

0 20
SCALE IN FEET

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NIMMO PARKWAY - ROADWAY IMPROVEMENTS
TYPICAL ROADWAY SECTION - PHASE I

AT: UNNAMED TRIBS. TO SCOPUS MARSH
IN: CITY OF VIRGINIA BEACH

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CITY OF VIRGINIA BEACH

DATE: AUGUST, 2005

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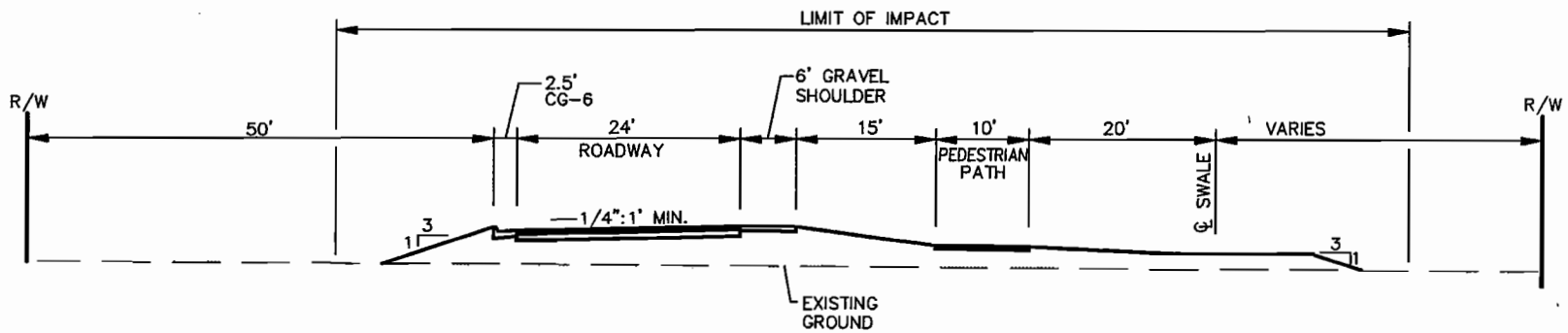

Typical Roadway Section - Phase II

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NIMMO PARKWAY - ROADWAY IMPROVEMENTS
TYPICAL ROADWAY SECTION - PHASE II

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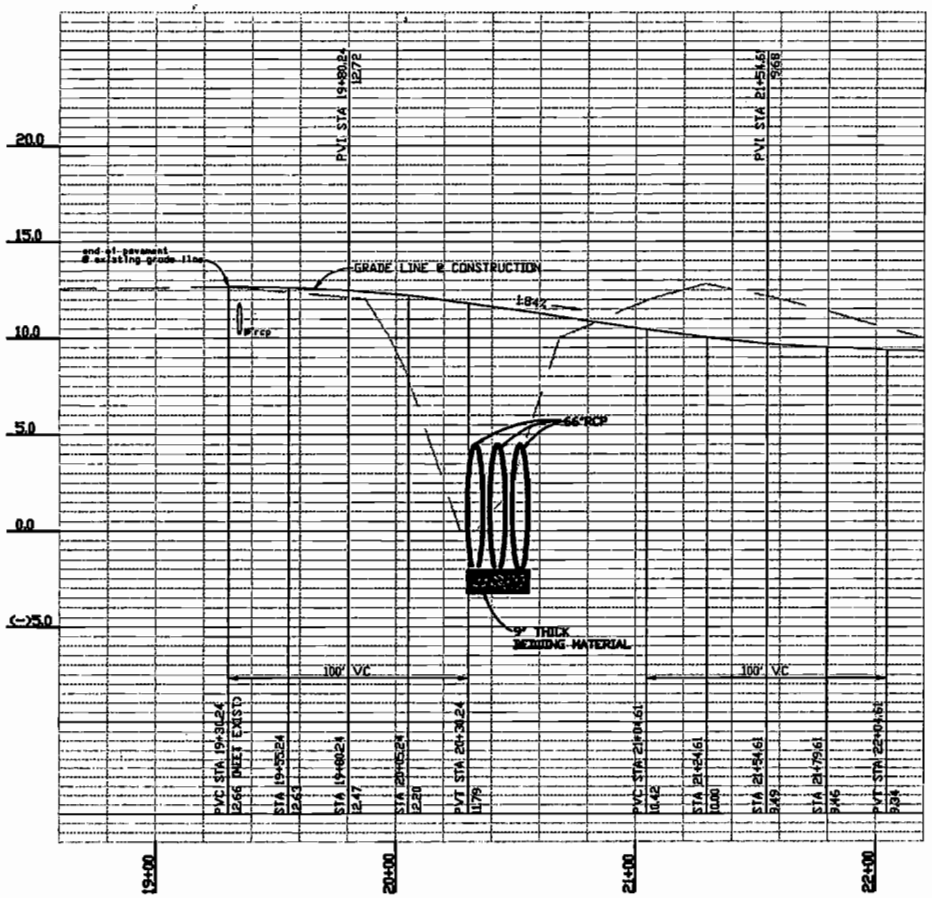
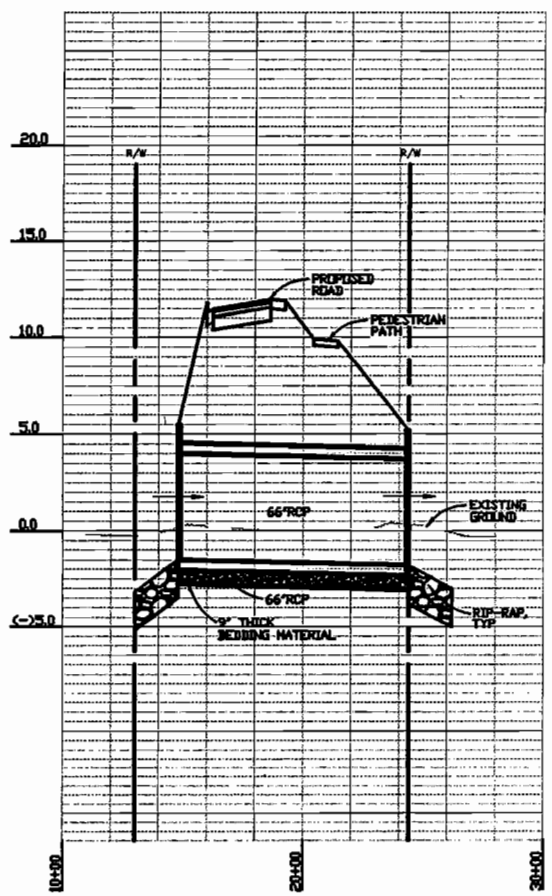


Section A-A



Profile A1-A1

0 80
HORIZONTAL SCALE IN FEET

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NIMMO PARKWAY - ROADWAY IMPROVEMENTS
CROSS SECTION A-A & PROFILE A1-A1

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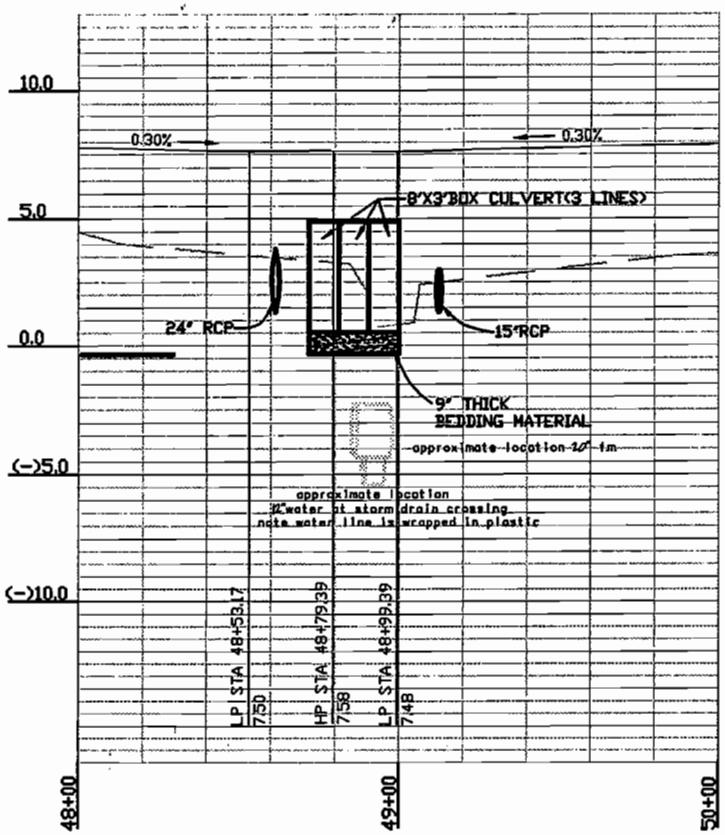
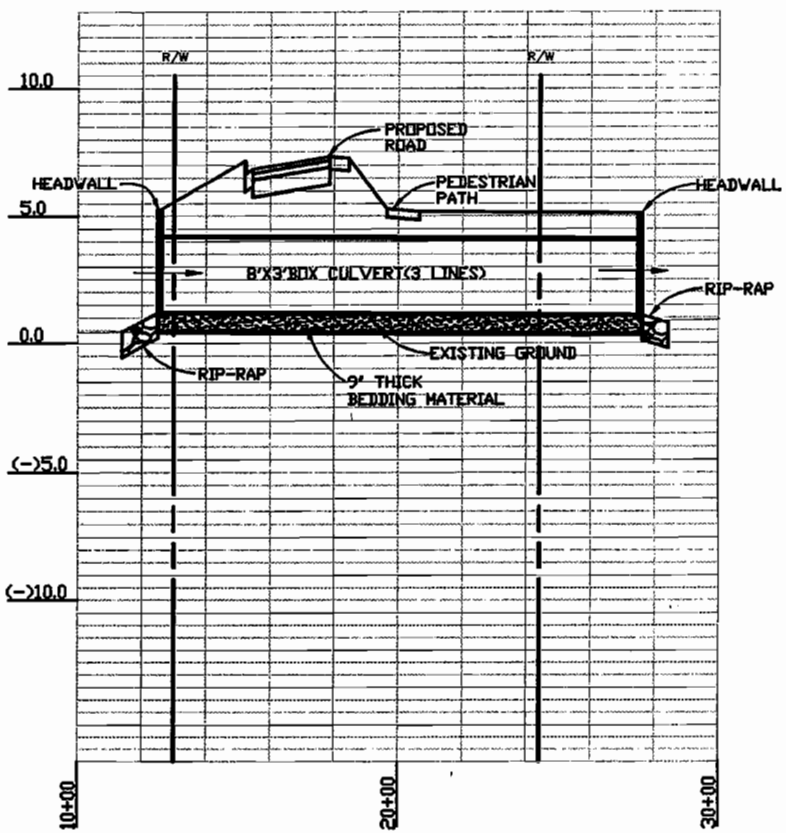


Section B-B



Profile B1-B1

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HORIZONTAL SCALE IN FEET

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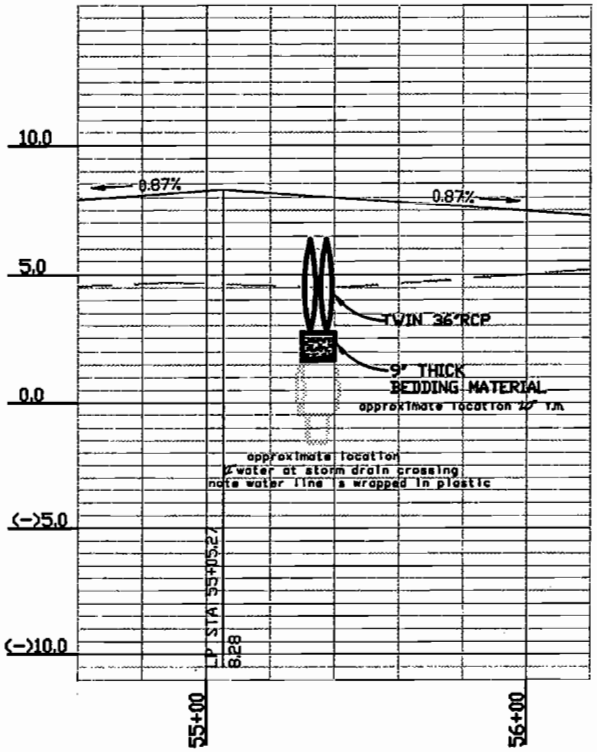
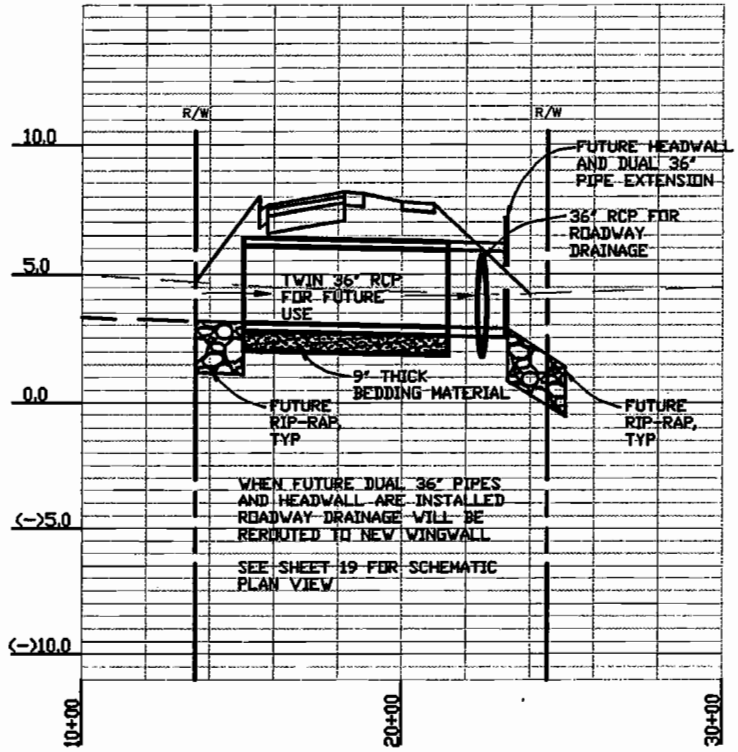


Section C-C



Profile C1-C1

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HORIZONTAL SCALE IN FEET

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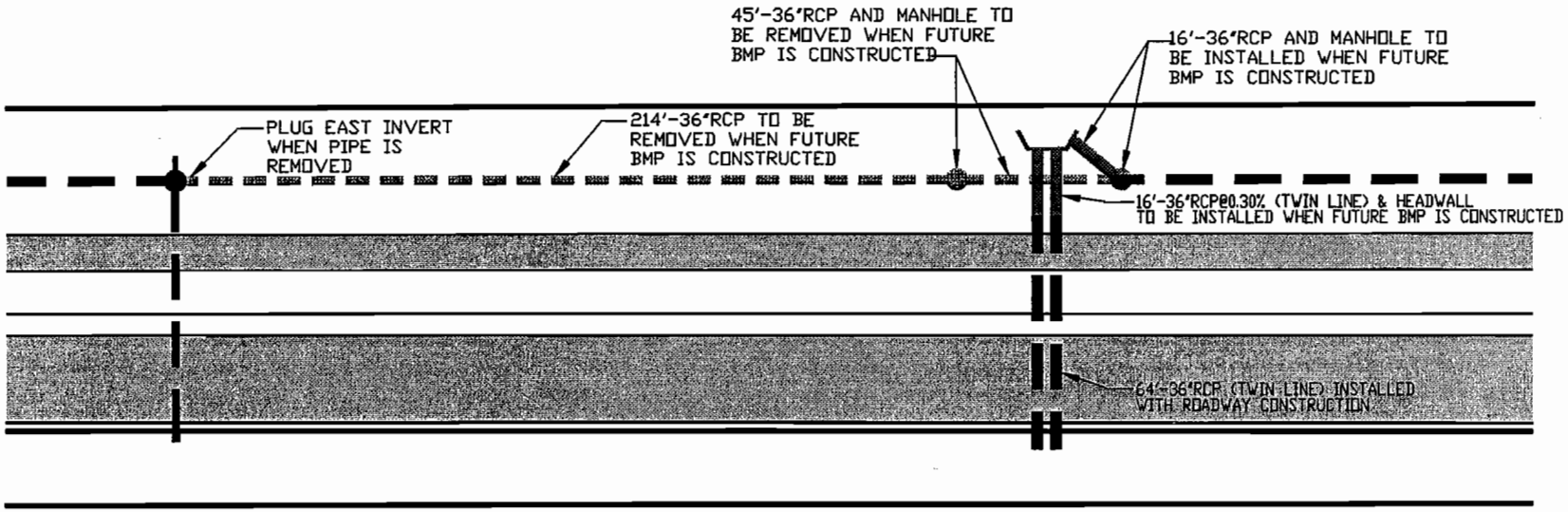

Future Outfall Detail

0 50
HORIZONTAL SCALE IN FEET

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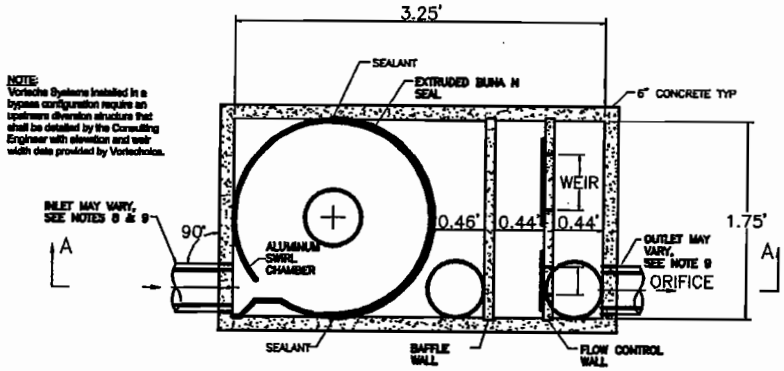
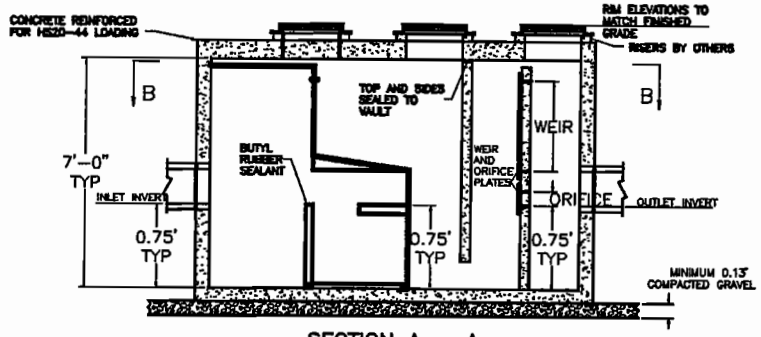


PLAN VIEW B – B

1. STORMWATER TREATMENT SYSTEM (SWTS) SHALL HAVE:
   PEAK TREATMENT CAPACITY: 8.5 CFS
   SEDIMENT STORAGE: 3.25 CU YD
   SEDIMENT CHAMBER DIA: 7' MIN
2. SWTS SHALL REMOVE 80% THE NET ANNUAL TSS LOADING BASED ON A 50 MICRON SIZE PARTICLE



SECTION A – A

NOTES:

1. STORMWATER TREATMENT SYSTEM (SWTS) SHALL HAVE:
   PEAK TREATMENT CAPACITY: 8.5 CFS
   SEDIMENT STORAGE: 3.25 CU YD
   SEDIMENT CHAMBER DIA: 7' MIN
2. SWTS SHALL BE CONTAINED IN ONE RECTANGULAR STRUCTURE
3. SWTS SHALL REMOVE 80% OF THE NET ANNUAL TSS LOADING BASED ON A 50 MICRON SIZE PARTICLE
4. SWTS SHALL RETAIN FLOATABLES AND TRAPPED SEDIMENT UP TO AND INCLUDING PEAK TREATMENT CAPACITY
5. SWTS INVERTS IN AND OUT SHALL BE AT THE SAME ELEVATION
6. SWTS SHALL NOT BE COMPROMISED BY EFFECTS OF DOWNSTREAM TAILWATER
7. SWTS SHALL HAVE NO INTERNAL COMPONENTS THAT OBSTRUCT MAINTENANCE ACCESS
8. INLET PIPE MUST BE PERPENDICULAR TO THE STRUCTURE
9. PIPE ORIENTATION (MAY VARY) SEE SITE PLAN FOR SIZE AND LOCATION
10. PURCHASER SHALL NOT BE RESPONSIBLE FOR ASSEMBLY OF UNIT
11. MANHOLE FRAMES AND PERFORATED COVERS SUPPLIED WITH SYSTEM, NOT INSTALLED
12. PURCHASER TO PREPARE EXCAVATION AND PROVIDE CRANE FOR OFF-LOADING & SETTING AT TIME OF DELIVERY
13. CONTACT VORTECHNICS @ (207) 865-6530 FOR ORDERING INFORMATION

Vortechincs Stormwater Treatment System

Source: Vortechincs N.T.S.

VHB Vanasse Hangen Brustlin, Inc. Transportation Land Development Environmental Services 351 McLaws Circle, Suite 3 Williamsburg, Virginia 23185 (757) 220-0500 • Fax: (757) 220-8544	ADJACENT PROPERTY OWNERS: 1. 2. DATUM: MEAN LOW WATER	**NIMMO PARKWAY - ROADWAY IMPROVEMENTS** **VORTECHINCS STORMWATER TREATMENT SYSTEM DETAIL** AT: UNNAMED TRIBS. TO SCOPUS MARSH IN: CITY OF VIRGINIA BEACH PURPOSE: ROADWAY EXTENSION - ACCESS	APPLICATION BY: CITY OF VIRGINIA BEACH DATE: AUGUST, 2005 SHEET 20 OF 20

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