

# US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION

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- 3 GEOMETRY PLAN
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- 21 MAINTENANCE OF TRAFFIC PLAN AND DETAILS

## 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

## GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 HOWARD COUNTY PUBLIC SCHOOLS AT 410-313-6600 AND MISS UTILITY AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK
2. COORDINATES SHOWN HEREON ARE BASED ON THE MARYLAND STATE REFERENCE SYSTEM NAD '83/'11 AS PROJECTED BY HOWARD COUNTY PROJECT CONTROL STATIONS 24AA, 24B5, 24BB, 24CA, FLY20, AND FLY21

24AA:  
N: 587,380.4890  
E: 1,352,603.5050  
ELEV: 386.51200  
HOWARD COUNTY DISK FOUND

24B5:  
N: 586,956.2510  
E: 1,356,570.8500  
ELEV: 390.1730  
HOWARD COUNTY DISK FOUND

24BB:  
N: 586,791.1980  
E: 1,359,181.2410  
ELEV: 386.1210  
HOWARD COUNTY DISK FOUND

24CA:  
N: 586,506.2020  
E: 1,361,634.3400  
ELEV: 398.2570  
HOWARD COUNTY DISK FOUND

FLY20:  
N: 586,731.92638  
E: 1,359,770.13247  
ELEV: 382.4900  
URS MAGNAIL FOUND

FLY21:  
N: 586,824.80788  
E: 1,358,731.40157  
ELEV: 388.3400  
URS MAGNAIL FOUND

THE SYSTEM OF COORDINATES USED IS BASED ON THE FOLLOWING DATUMS AND PROJECTIONS:

HORIZONTAL: NAD83/2011  
VERTICAL: NAVD88

3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
4. ALL WORK SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE '2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL,' ISSUED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND THE NATURAL RESOURCES CONSERVATION SERVICE.
5. TOPOGRAPHIC SURVEYS WERE PERFORMED BY URS CORPORATION IN APRIL 2014.
6. THE PROPERTY LINES AND EASEMENT LINES ARE APPROXIMATE.
7. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
8. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHOD, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
9. APPROXIMATE UTILITIES ARE SHOWN FROM AVAILABLE RECORDS AND/OR FIELD RECONNAISSANCE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.

UTILITY CONTACTS:

AT&T	1-800-252-1133
BGE (CONSTRUCTION SERVICES)	(410) 637-8713
BGE (EMERGENCY)	(410) 685-0123
HOCO BUREAU OF UTILITIES	(410) 313-4900
COLONIAL PIPELINE CO.	1-800-257-7777
MISS UTILITY	(410) 795-1390
STATE HIGHWAY ADMINISTRATION	(410) 531-5533
VERIZON	1-800-743-0033

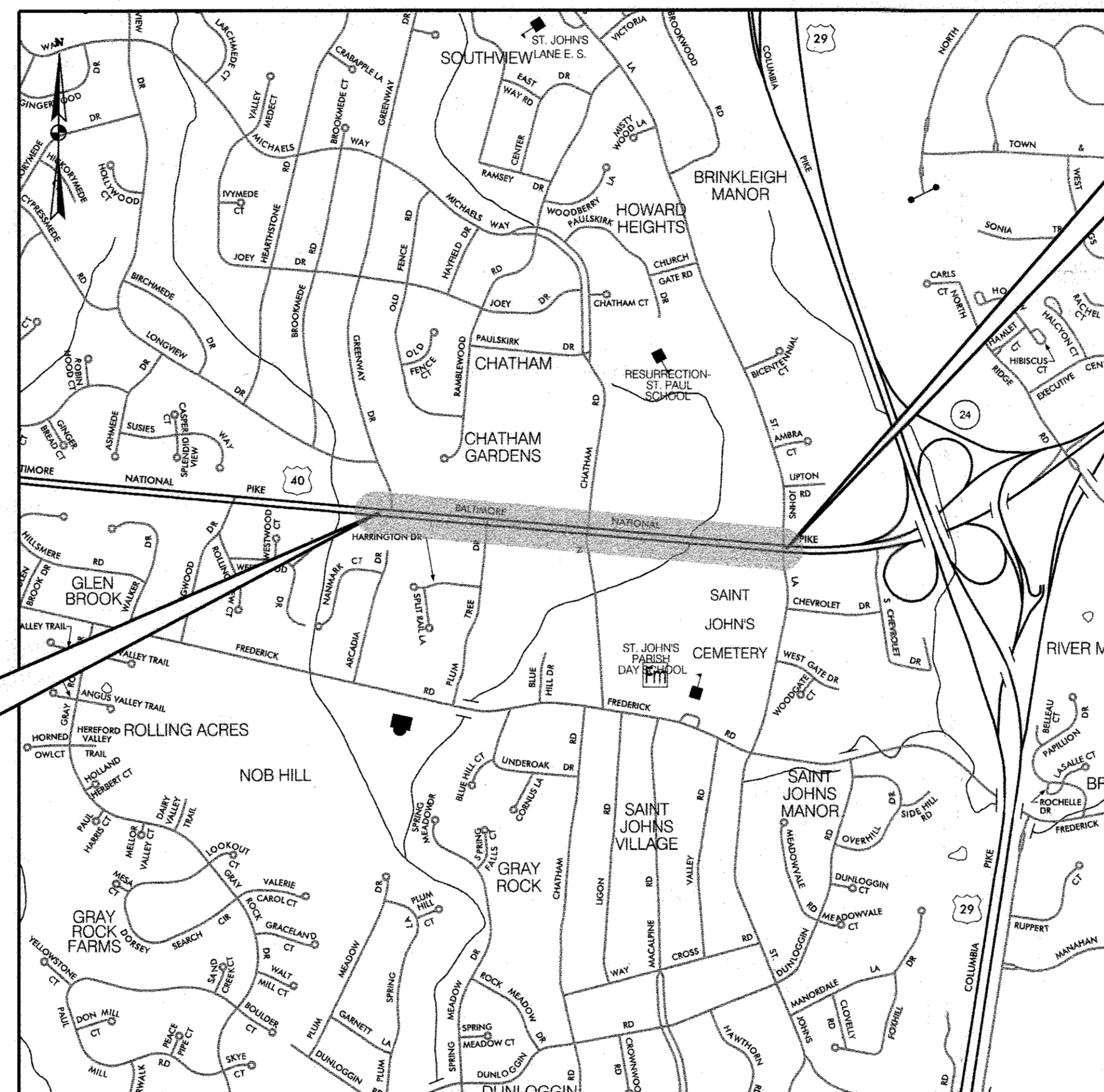
10. THE FOLLOWING STANDARDS (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) ARE REQUIRED FOR THIS PROJECT:

A. MD-389.01 STANDARD CONCRETE VALLEY GUTTER, FLUMES CONCRETE SHOULDER & REBUT  
B. MD-620.02 STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER

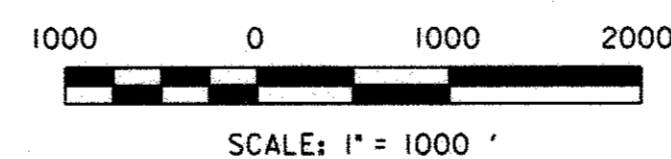
FOR ALL STANDARDS REFERRED TO ON THE PLANS THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION, THE BOOK OF STANDARDS CAN BE ACCESSED AT:

[HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHA/BIZSTDSSPECS/DESMANUALSTD/PUB/PUBLICATIONSONLINE/OHD/BOOKSTD/INDEX.ASP](http://apps.roads.maryland.gov/businesswithsha/bizstdsspecs/desmanualstdpub/publicationsonline/OHD/BOOKSTD/INDEX.ASP)

ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.



LOCATION MAP  
HOWARD COUNTY



SITE LOCATION

SITE LOCATION

**DEVELOPER'S CERTIFICATION**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

**ENGINEER'S CERTIFICATION**

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*David F. Mahoney* 10-5-16  
URS CORPORATION 4 NORTH PARK DRIVE HUNT VALLEY, MD 21030

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT. *EP-15-015*  
*John R. Robinson* 11/6/16  
HOWARD SOIL CONSERVATION DISTRICT

**PROFESSIONAL CERTIFICATION**

"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2018."

DESIGN DESIGNATION	
ROADWAY	US 40
DESIGN SPEED	45 M.P.H.
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL

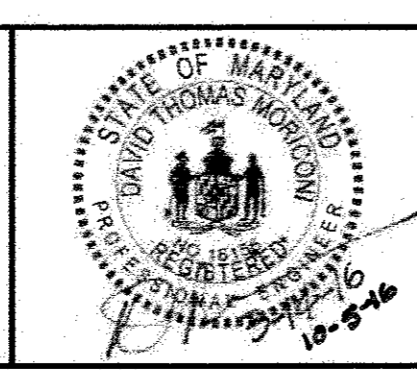
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*David F. Mahoney* 11/9/16  
DIRECTOR OF PUBLIC WORKS DATE

*Thomas S. Butler* 11/4/16  
CHIEF, BUREAU OF HIGHWAYS DATE

*Thomas S. Butler* 11-7-16  
DIRECTOR OF PLANNING AND ZONING DATE

*Thomas S. Butler* 11/4/16  
CHIEF, BUREAU OF ENGINEERING DATE



DES:	RLI				
DRN:	RLI				
CHK:	DTM				
DATE:	03/16				
BY	NO.	REVISION	DATE		

TITLE SHEET

SCALE MAP NO. N/A BLOCK NO.

US ROUTE 40 STREETSCAPE  
MASTER PLAN IMPLEMENTATION

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 21

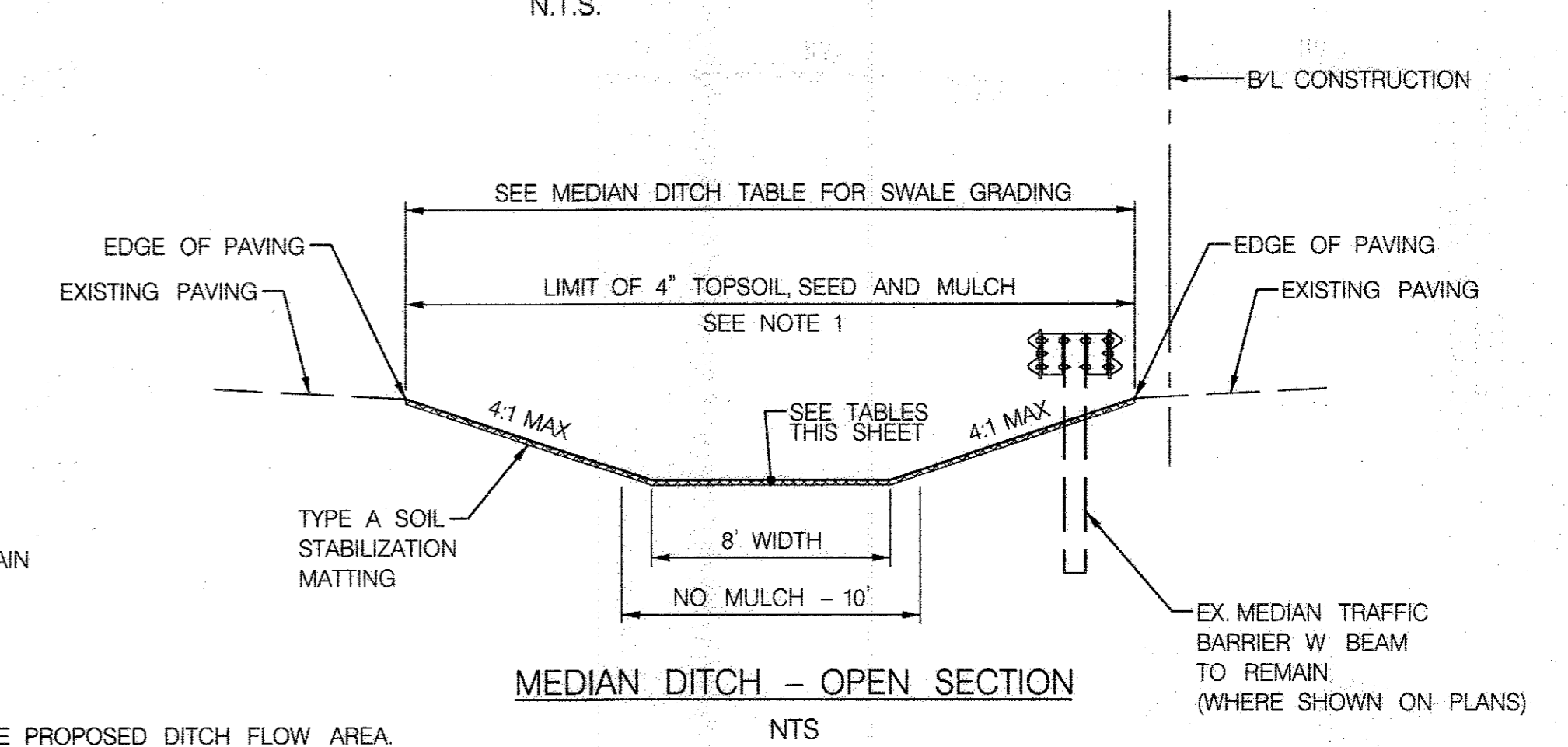
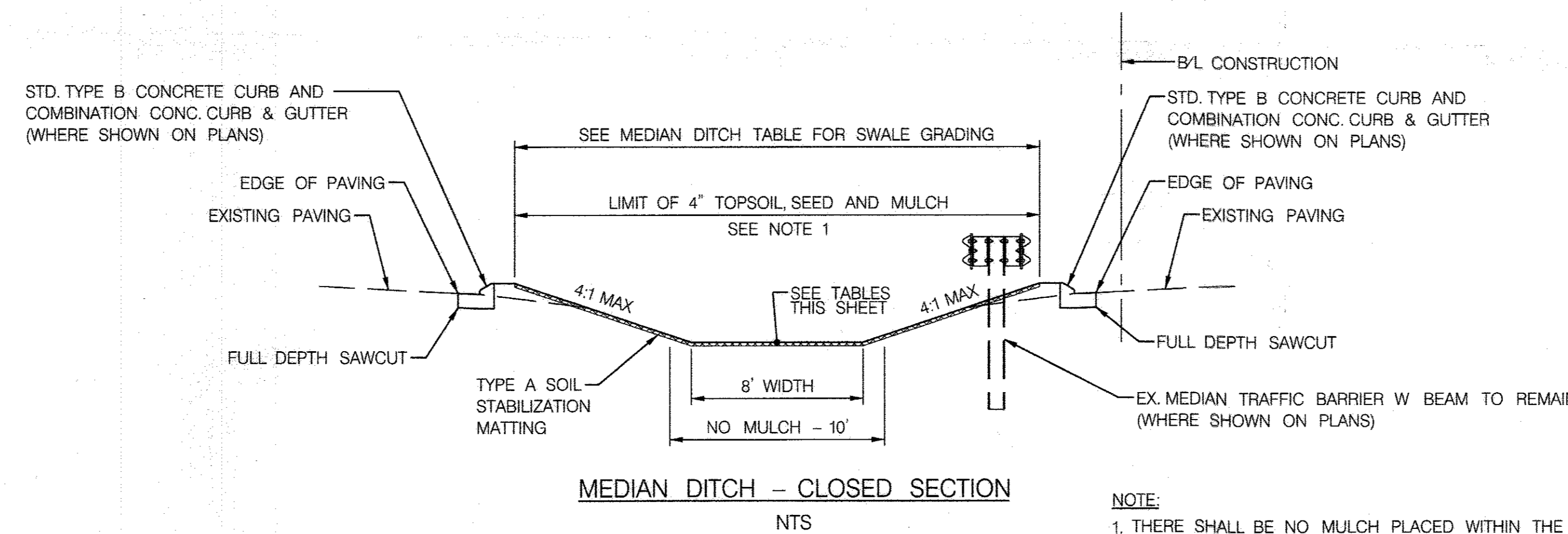
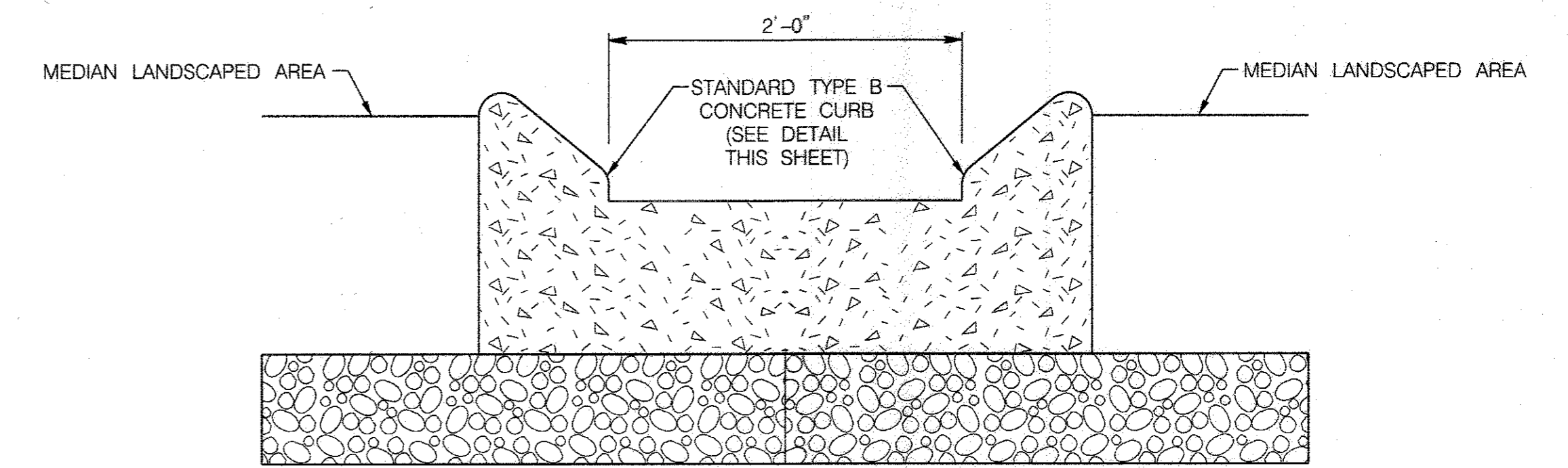
DRAINAGE STRUCTURE SCHEDULE									
STRUCTURE NUMBER	BASELINE	STATION	OFFSET	INVERT IN	INVERT OUT	FLOW LINE ELEVATION	VERTICAL DEPTH (LF)	STRUCTURE TYPE	MD SHA STD REFERENCE
L-1	US 40	104+75.49	17.11' LT	-	-	388.17	-	5' Open Back COG	MD 374.68

MEDIAN DITCH		
STATION	OFFSET	BOTTOM ELEVATION (FT)
104+72.43	18.3 ,LT	388.09
104+50.00	18.7 ,LT	387.43
104+00.00	19.2 ,LT	385.97
103+50.00	19.8 ,LT	384.50
103+00.00	20.3 ,LT	383.03
102+50.00	20.9 ,LT	381.56
102+13.71	21.3 ,LT	380.50

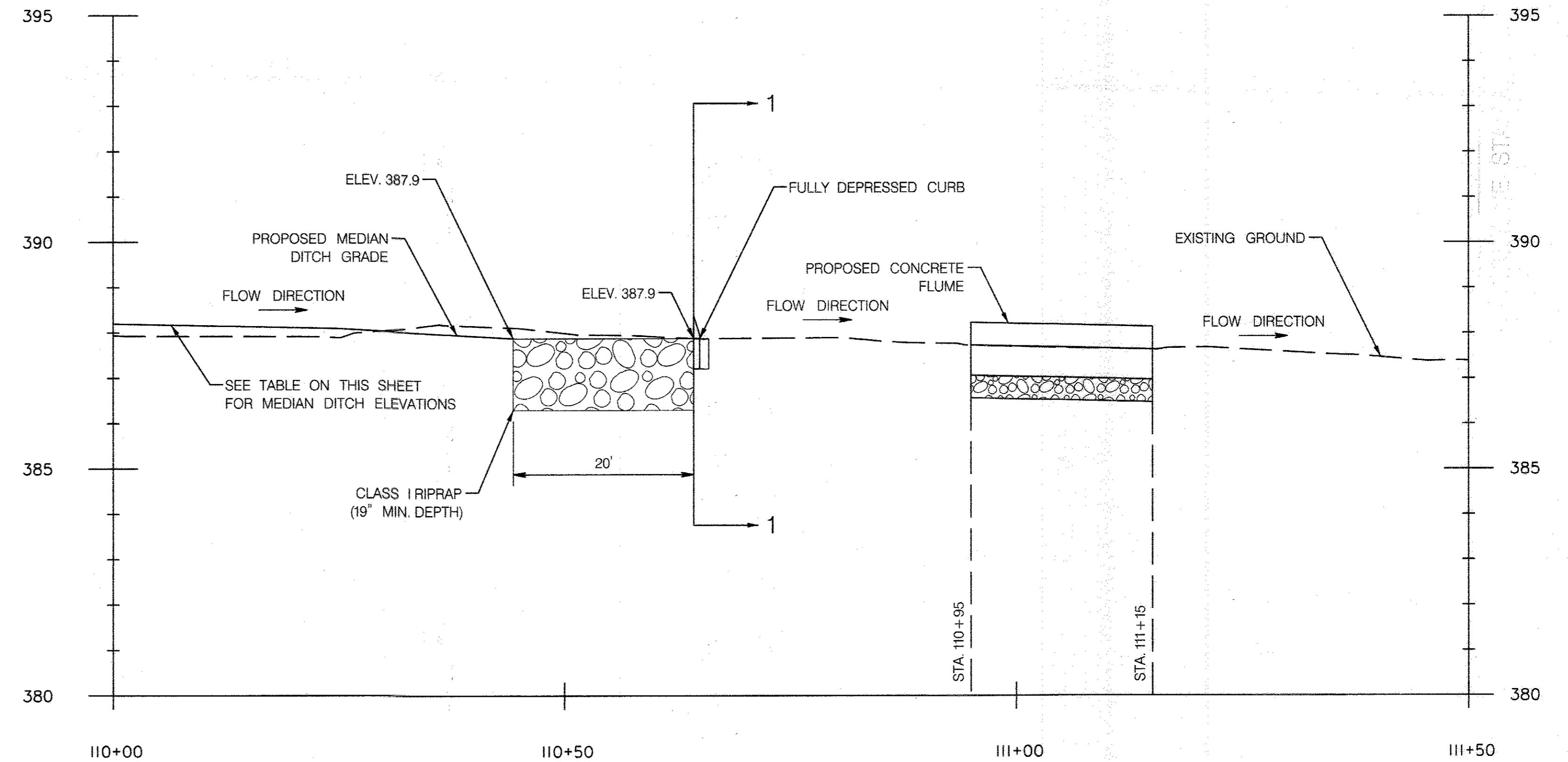
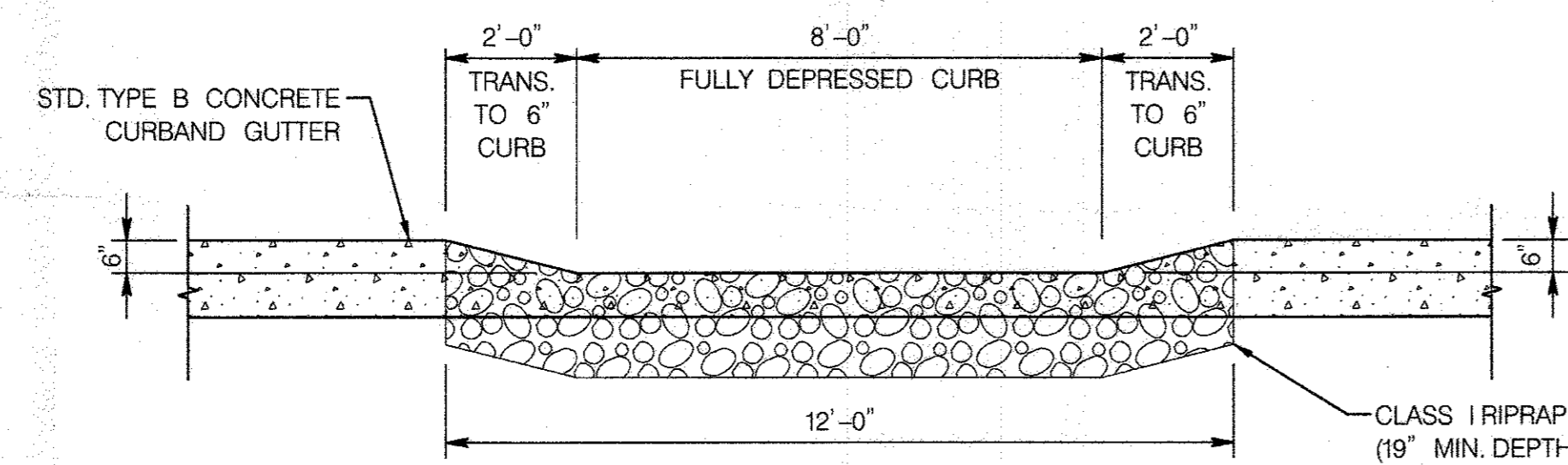
MEDIAN DITCH		
STATION	OFFSET	BOTTOM ELEVATION (FT)
136+50.00	22.1 ,LT	391.06
136+07.60	24.5 ,LT	389.62
136+00.00	22.4 ,LT	389.37
135+50.00	21.4 ,LT	387.67
135+00.00	21.1 ,LT	385.98
134+50.00	20.8 ,LT	384.29
134+00.00	20.4 ,LT	382.59
133+50.00	20.1 ,LT	380.90
133+00.00	19.8 ,LT	379.67
132+50.00	19.4 ,LT	378.43
132+00.00	19.1 ,LT	377.20
131+50.00	18.8 ,LT	376.46
131+00.00	18.4 ,LT	375.71
130+95.76	18.3 ,LT	375.65
130+07.65	18.1 ,LT	375.26
130+00.00	17.3 ,LT	375.35
129+50.00	15.8 ,LT	375.91
129+00.00	14.4 ,LT	376.47
128+50.00	12.9 ,LT	377.03
128+26.10	12.2 ,LT	377.30

MEDIAN DITCH		
STATION	OFFSET	BOTTOM ELEVATION (FT)
110+64.40	20.9 ,LT	387.90
110+50.00	20.7 ,LT	387.90
110+00.00	20.2 ,LT	388.13
109+50.00	19.7 ,LT	388.36
109+00.00	19.2 ,LT	388.59
108+50.00	18.8 ,LT	388.82
108+00.00	18.3 ,LT	389.05
107+50.00	17.8 ,LT	389.27
107+00.00	17.2 ,LT	389.50
106+88.20	17.1 ,LT	389.56
106+50.00	16.5 ,LT	389.30
106+00.00	15.9 ,LT	388.97
105+50.00	15.2 ,LT	388.64
105+25.67	15.4 ,LT	388.48
105+05.67	15.6 ,LT	388.40

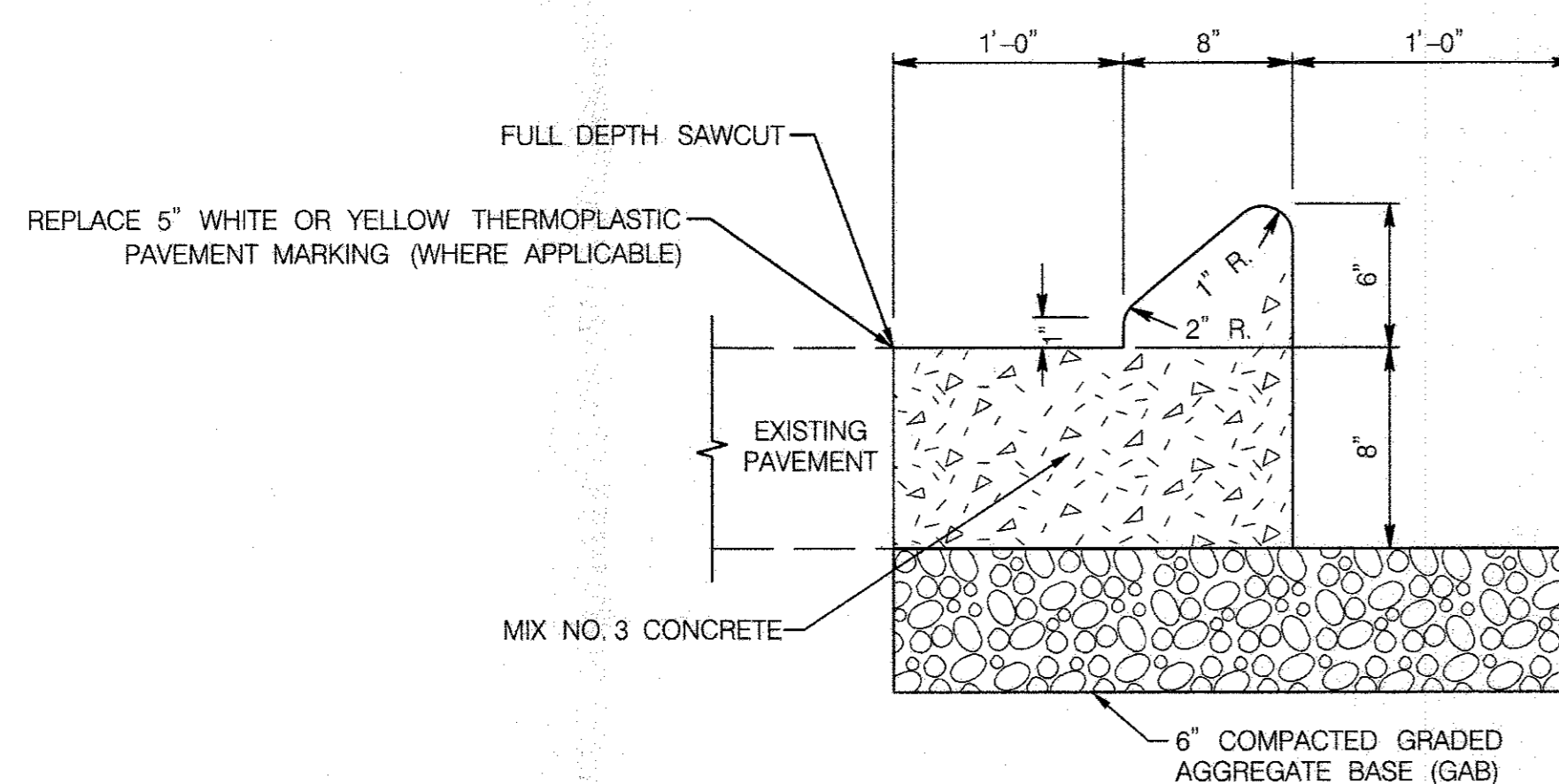
MEDIAN DITCH		
STATION	OFFSET	BOTTOM ELEVATION (FT)
127+17.34	24.8 ,LT	377.67
127+00.00	24.3 ,LT	377.76
126+50.00	22.9 ,LT	378.02
126+00.00	21.4 ,LT	378.28
125+57.87	22.0 ,LT	378.51
125+50.00	20.4 ,LT	378.55
125+00.00	18.5 ,LT	378.81
124+50.00	17.1 ,LT	379.07
124+00.00	16.9 ,LT	379.90



NOTE:  
1. THERE SHALL BE NO MULCH PLACED WITHIN THE PROPOSED DITCH FLOW AREA.



PROFILE STA. 110+00 TO STA. 111+50  
SCALE: 1" = 10' HORIZ.  
1" = 2' VERT.



STANDARD TYPE B CONCRETE CURB AND COMBINATION CURB AND GUTTER (MD-620.02)  
N.T.S.

NOTES:  
1) NO WORK IS INCLUDED WITHIN THIS CONTRACT FOR ANY MEDIAN WORK FROM STA. 112+07 TO STA. 119+53. THIS WORK WAS PERFORMED UNDER A PREVIOUS HOWARD COUNTY DEPARTMENT OF PUBLIC WORK CONTRACT  
2) MEDIAN DITCH SHALL HAVE 8' FLAT BOTTOM UNLESS OTHERWISE NOTED ON THE TABLES ABOVE.

PROFESSIONAL CERTIFICATION  
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2016"

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
DIRECTOR OF PUBLIC WORKS: [Signature] 11/9/16  
DIRECTOR OF PLANNING AND ZONING: [Signature] 11-7-16  
CHIEF, BUREAU OF HIGHWAYS: [Signature] 11/13/16  
CHIEF, BUREAU OF ENGINEERING: [Signature] 11/16/16

PREPARED BY  
**URS**  
4 NORTH PARK DRIVE  
HUNT VALLEY, MARYLAND  
TEL: (410) 785-7220



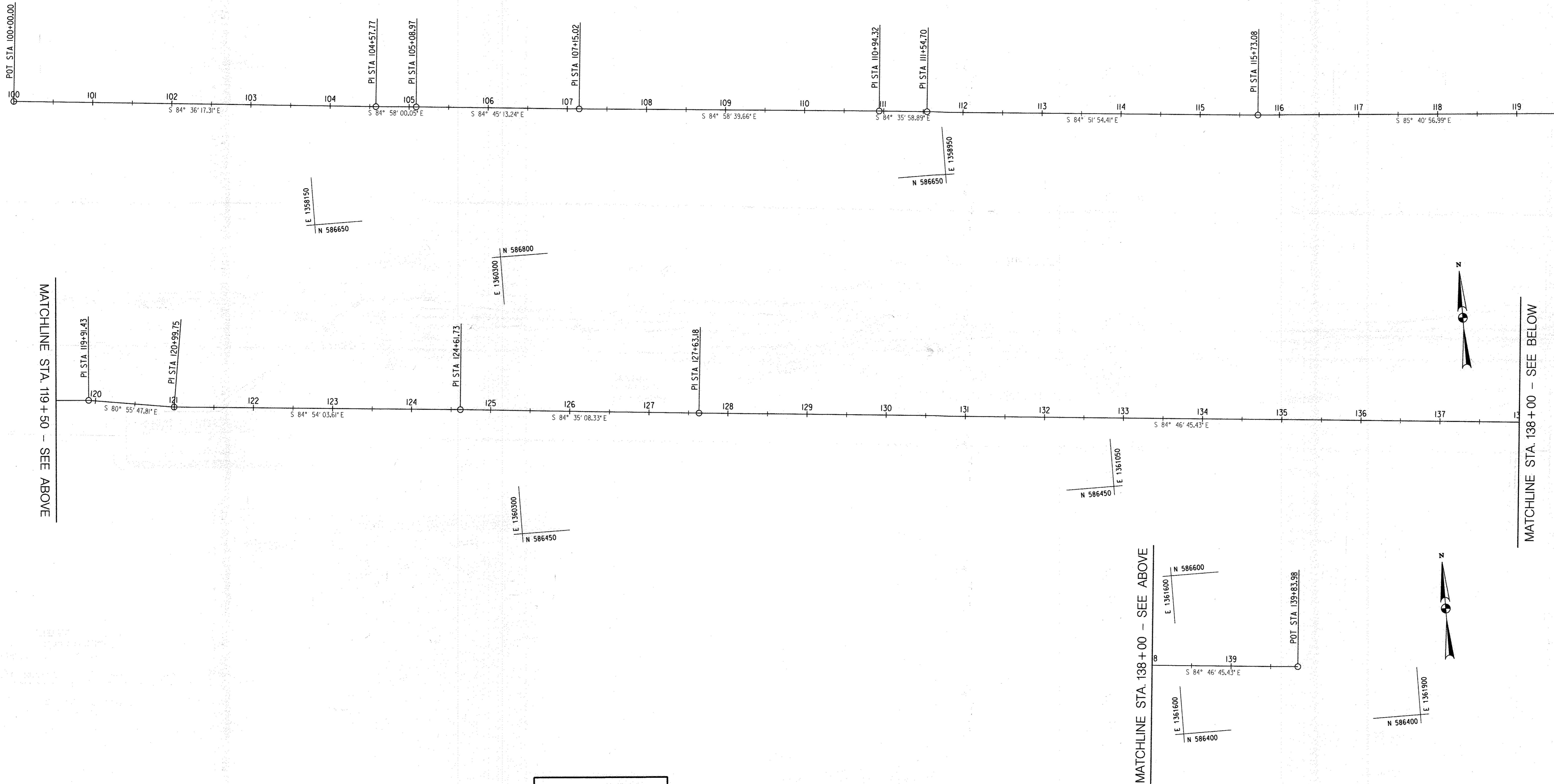
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DRN:	RL				
CHK:	DTM				
DATE:	03/16	BY:	NO.	REVISION	DATE

TYPICAL SECTIONS AND DETAILS

US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1" = 5'  
SHEET 2 OF 21



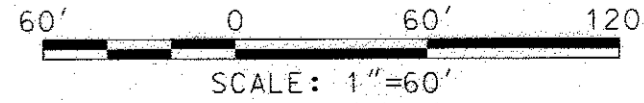
MATCHLINE STA. 119 + 50 - SEE BELOW

MATCHLINE STA. 138 + 00 - SEE BELOW

MATCHLINE STA. 119 + 50 - SEE ABOVE

MATCHLINE STA. 138 + 00 - SEE ABOVE

PROFESSIONAL CERTIFICATION  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2018."



HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *[Signature]* 11-7-16  
 Director of Planning and Zoning: *[Signature]* 11/4/16  
 Chief, Bureau of Highways: *[Signature]*  
 Chief, Bureau of Engineering: *[Signature]*



DES: RLL			
DRN: RLL			
CHK: DTM			
DATE: 03/16	BY	NO.	REVISION

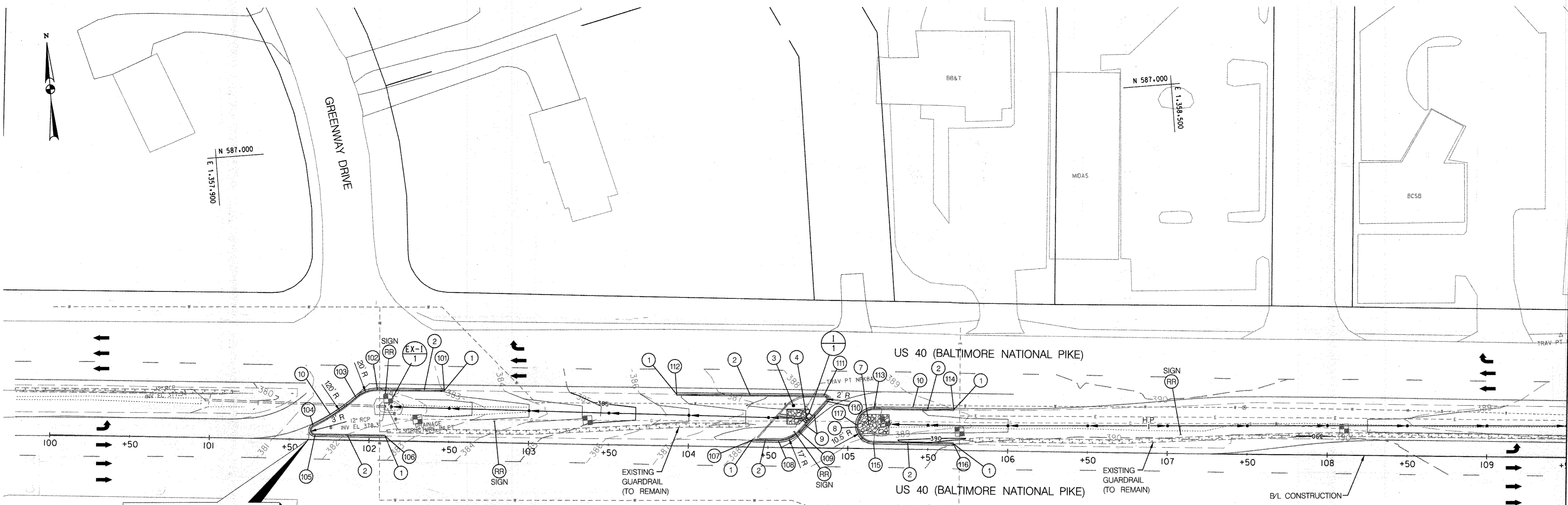
GEOMETRY PLAN

SCALE MAP NO. N/A BLOCK NO.

US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1"=60'  
 SHEET 3 OF 21



**LIMIT OF WORK**  
 US 40  
 STA. 101+62.18

TYPE B CONCRETE CURB AND GUTTER (MD 620.02)			
POINT	NORTHING	EASTING	FLOW LINE ELEVATION
101	586,844.1532	1,358,031.6902	382.99
102	586,847.8726	1,357,989.8165	381.91
103	586,844.0148	1,357,976.1325	381.50
104	586,828.5051	1,357,948.0056	381.27
105	586,822.7204	1,357,948.8145	381.54
106	586,818.7033	1,357,992.4446	382.58
107	586,798.3539	1,358,221.5463	388.00
108	586,796.8596	1,358,237.8943	388.29
109	586,801.4093	1,358,251.0927	388.30
110	586,819.0705	1,358,269.8586	388.28
111	586,822.5193	1,358,268.6627	388.23
112	586,830.6038	1,358,176.4979	386.49
113	586,812.1136	1,358,299.1117	388.41
114	586,807.8918	1,358,348.9332	388.99
115	586,791.1956	1,358,297.2596	389.31
116	586,786.5978	1,358,347.0478	389.98
117	586,802.5772	1,358,287.7661	388.43

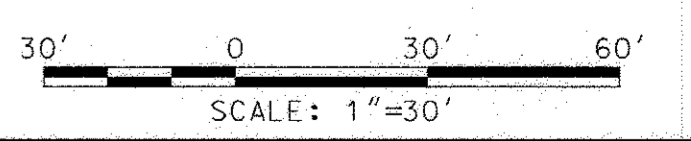
- NEW CONSTRUCTION NOTES**
- 4" NOSE DOWN CURB
  - STANDARD TYPE B CONCRETE CURB AND COMBINATION CURB AND GUTTER, CONCRETE MIX NO.3 (MD-620.02)
  - REMOVE EXISTING CONCRETE MEDIAN AND REPLACE WITH LANDSCAPED AREA.
  - INSTALL 5' OPEN BACK COG INLET. SEE DETAIL MD 374.68.
  - NO WORK PERFORMED IN THIS MEDIAN.
  - REMOVE CONCRETE FLUME.
  - INSTALL 12" X 20" CLASS 1 RIPRAP
  - CURB SHALL BE FULLY DEPRESSED ADJACENT TO RIPRAP. SEE SECTION 1-1 ON SHEET 2.
  - TRANSITION TYPE B CURB TO MATCH OPEN BACK COG WITHIN 2'
  - 5" WHITE OR YELLOW THERMOPLASTIC PAVEMENT MARKING

**PROFESSIONAL CERTIFICATION**  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2018"

**GENERAL NOTES:**  
 1. PRIOR TO INSTALLATION OF PROPOSED CURB, A SAWCUT MUST BE MADE ALONG EXISTING CURB AND GUTTER TO CLEANLY REMOVE AND REINSTALL CURB.

- LEGEND**
- 390 --- EXISTING CONTOUR
  - 385 --- PROPOSED CONTOUR
  - - - - - UNDERGROUND ELECTRIC
  - - - - - UNDERGROUND GAS
  - - - - - UNDERGROUND WATER
  - =====  
===== EXISTING STORM DRAIN PIPE
  - =====  
===== TYPE 'B' CONCRETE CURB AND GUTTER (MD 620.02)
  - █ CONCRETE FOR CURB OPENING

- ② NEW CONSTRUCTION NOTES (SEE NOTES THIS SHEET)
- (A) ADJUST
- (R) REMOVE AND RESET
- (RR) REMOVE
- H.P. HIGH POINT



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: [Signature] 11/9/16  
 Director of Planning and Zoning: [Signature] 11-7-16  
 Chief, Bureau of Highways: [Signature] 11/16/16  
 Chief, Bureau of Engineering: [Signature] 11/16/16

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



DES:	RLI		
DRN:	RLI		
CHK:	DTM		
DATE:	03/16	BY NO.	
		REVISION	
		DATE	

**PROPOSED SITE PLAN**  
 SCALE MAP NO. N/A BLOCK NO.

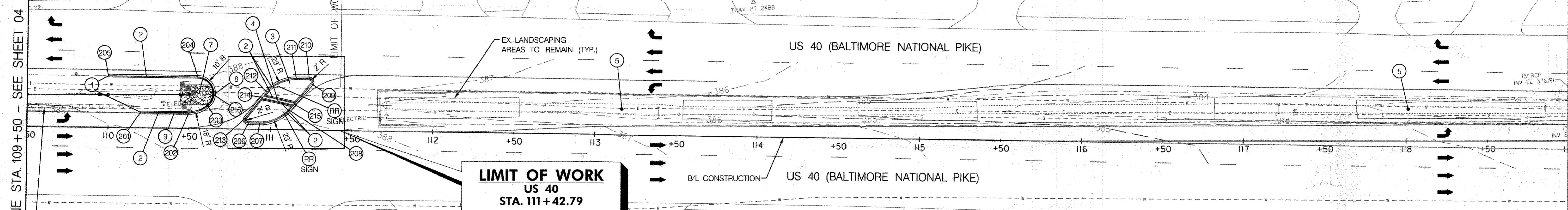
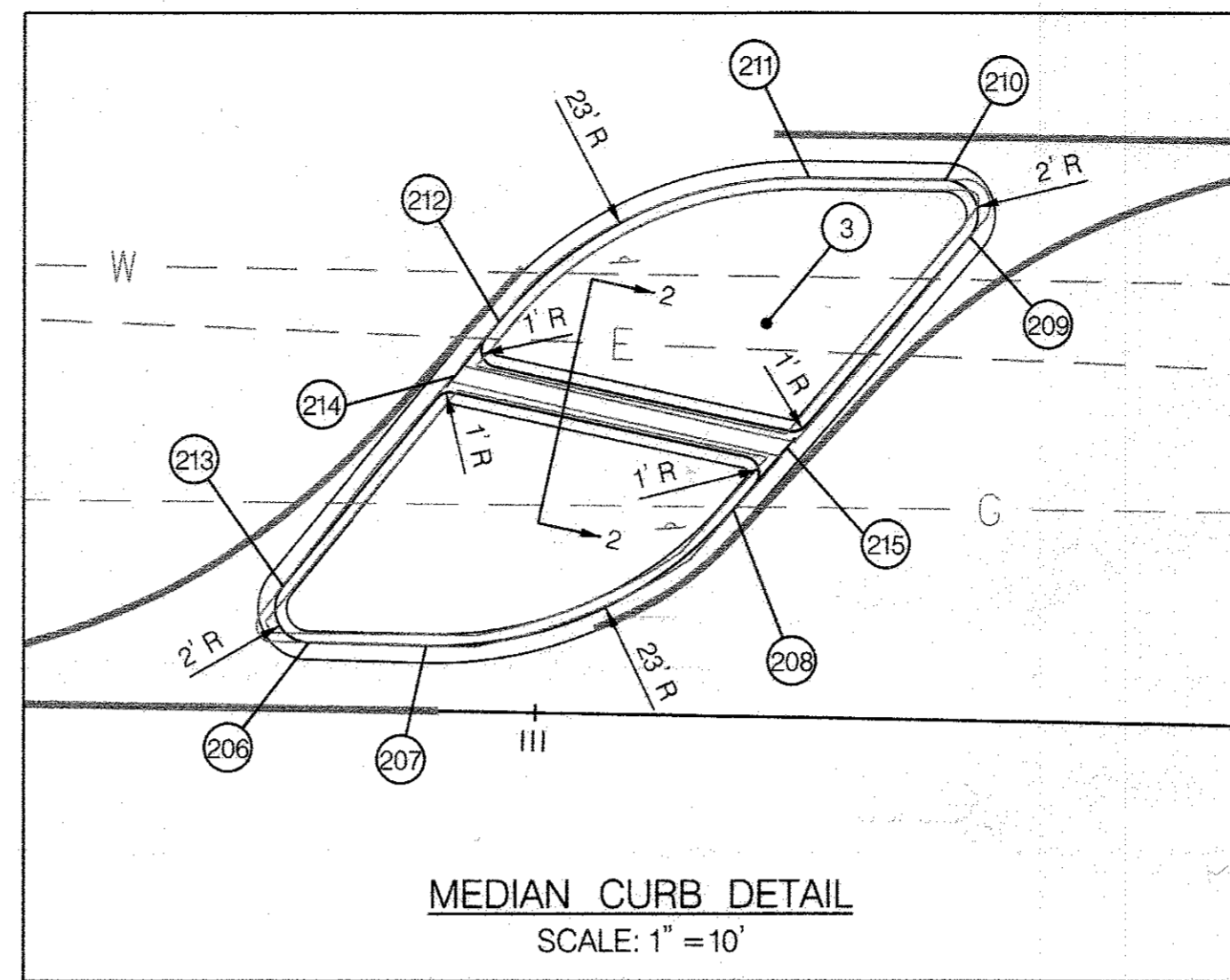
**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**  
 2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE  
 1"=30'  
 SHEET  
 4 OF 21

MATCHLINE STA. 109+50 - SEE SHEET 05

L:\Projects\HWCo\2016\35139\CAD\PropSitePlan\001-US40.dgn Friday, March 11, 2016 AT 04:01 PM Fontplotter

417 20298



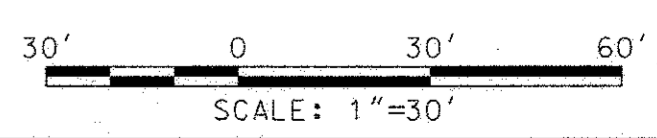
TYPE B CONCRETE CURB AND GUTTER (MD 620.02)

POINT	NORTHING	EASTING	FLOW LINE ELEVATION
201	586,751.9150	1,358,799.6705	388.62
202	586,749.4263	1,358,829.5436	388.22
203	586,752.7121	1,358,841.4934	387.88
204	586,770.8119	1,358,836.5819	388.01
205	586,775.7532	1,358,781.4971	388.39
206	586,740.4396	1,358,865.5579	388.25
207	586,739.7304	1,358,872.4299	388.20
208	586,746.2808	1,358,890.9893	387.73
209	586,761.1476	1,358,905.9752	387.57
210	586,764.5592	1,358,904.7474	387.62
211	586,765.2769	1,358,896.8396	387.65
212	586,758.2649	1,358,878.1358	387.71
213	586,743.8111	1,358,864.3176	388.11
214	586,755.3445	1,358,875.3438	387.71
215	586,749.6359	1,358,894.3713	387.62
216	586,759.2671	1,358,845.5584	387.84

PROFESSIONAL CERTIFICATION  
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- NEW CONSTRUCTION NOTES
- NOSE DOWN CURB
  - STANDARD TYPE B CONCRETE CURB AND COMBINATION CURB AND GUTTER (MD-620.02)
  - REMOVE EXISTING CONCRETE MEDIAN AND REPLACE WITH LANDSCAPED AREA.
  - CREATE CONCRETE FLUME. SEE SECTION 2-2 ON SHEET 2.
  - NO WORK PERFORMED IN THIS MEDIAN.
  - REMOVE CONCRETE FLUME.
  - INSTALL 12' X 20' CLASS 1 RIPRAP
  - CURB SHALL BE FULLY DEPRESSED ADJACENT TO RIPRAP
  - 5' WHITE OR YELLOW THERMOPLASTIC PAVEMENT MARKING

- LEGEND
- EXISTING CONTOUR
  - PROPOSED CONTOUR
  - UNDERGROUND ELECTRIC
  - UNDERGROUND GAS
  - UNDERGROUND WATER
  - EXISTING STORM DRAIN PIPE
  - TYPE 'B' CONCRETE CURB AND GUTTER (MD 620.02)
  - CONCRETE FOR CURB OPENING
- GENERAL NOTES:
- PRIOR TO INSTALLATION OF PROPOSED CURB, A SAWCUT MUST BE MADE ALONG EXISTING CURB AND GUTTER TO CLEANLY REMOVE AND REINSTALL CURB.

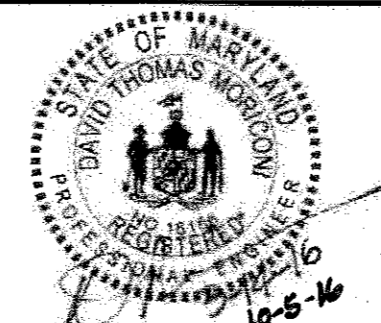


HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] DATE: 11/7/16  
 Director of Planning and Zoning: [Signature] DATE: 11/7/16

Chief, Bureau of Highways: [Signature] DATE: 11/12/16  
 Chief, Bureau of Engineering: [Signature] DATE: 11/16/16

PREPARED BY  
**URS**  
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 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



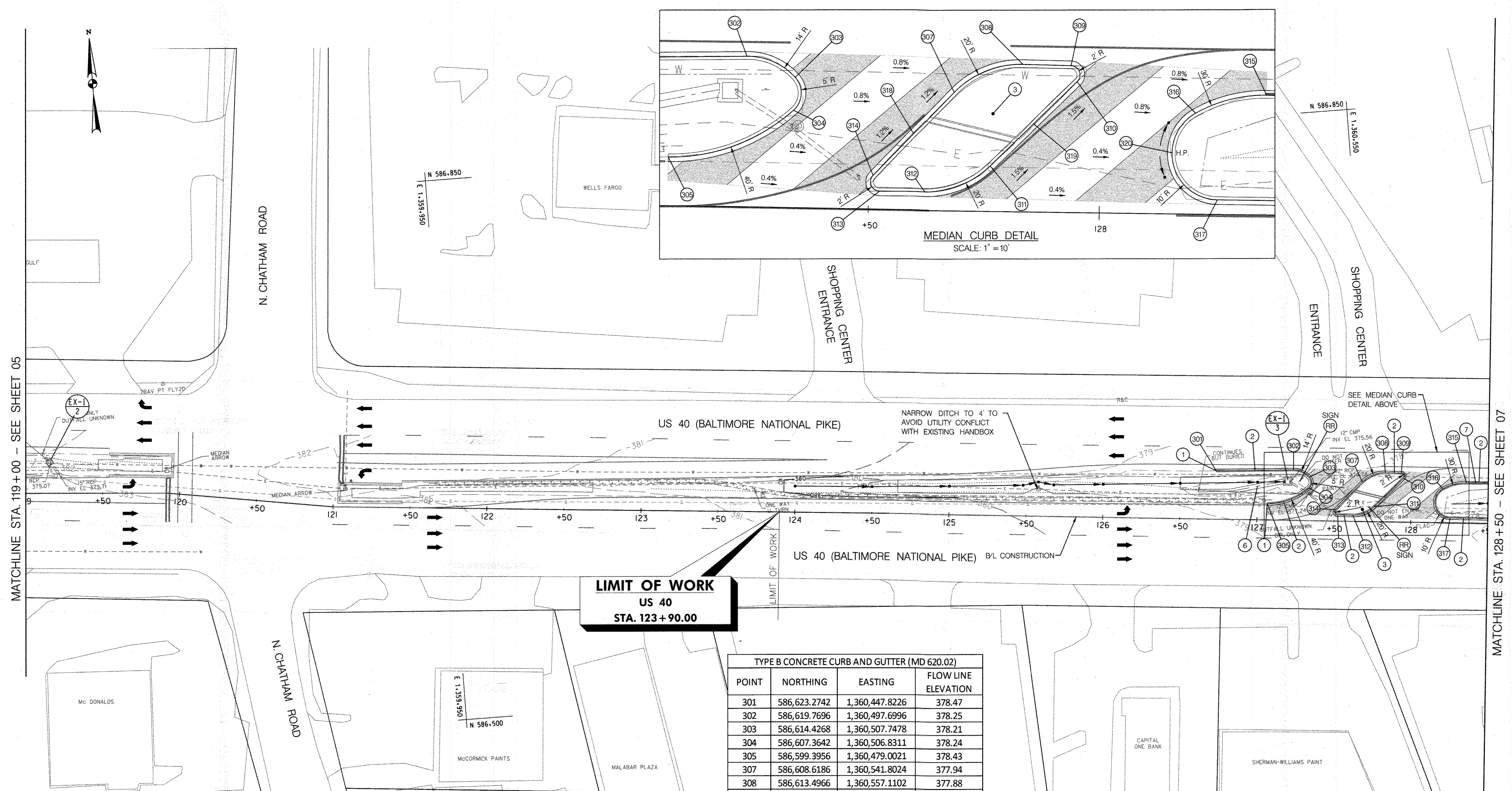
DES:	RLI		
DRN:	RLI		
CHK:	DTM		
DATE:	03/16		
BY	NO.	REVISION	DATE

PROPOSED SITE PLAN  
 SCALE MAP NO. N/A BLOCK NO.

US ROUTE 40 STREETScape  
 MASTER PLAN IMPLEMENTATION  
 2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE  
 1"=30'  
 SHEET  
 5 OF 21

LIP 20298



- NEW CONSTRUCTION NOTES**
- NOSE DOWN CURB
  - STANDARD TYPE B CONCRETE CURB AND COMBINATION CURB AND GUTTER (MD-620.02)
  - REMOVE EXISTING CONCRETE MEDIAN AND REPLACE WITH LANDSCAPED AREA.
  - CREATE CONCRETE FLUME. SEE SECTION 2-2 ON SHEET 2.
  - NO WORK PERFORMED IN THIS MEDIAN.
  - REMOVE CONCRETE FLUME.
  - 5" WHITE OR YELLOW THERMOPLASTIC PAVEMENT MARKING.

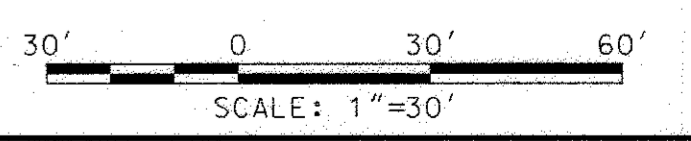
**PROFESSIONAL CERTIFICATION**  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2016."

TYPE B CONCRETE CURB AND GUTTER (MD 620.02)			
POINT	NORTHING	EASTING	FLOW LINE ELEVATION
301	586,623.2742	1,360,447.8226	378.47
302	586,619.7696	1,360,497.6996	378.25
303	586,614.4268	1,360,507.7478	378.21
304	586,607.3642	1,360,506.8311	378.24
305	586,599.3956	1,360,479.0021	378.43
307	586,608.6186	1,360,541.8024	377.94
308	586,613.4966	1,360,557.1102	377.88
309	586,612.4037	1,360,567.4962	377.81
310	586,608.8730	1,360,568.5609	377.67
311	586,592.1618	1,360,548.3366	378.04
312	586,587.6561	1,360,533.8478	378.31
313	586,588.5139	1,360,524.0784	378.36
314	586,592.0074	1,360,522.9319	378.27
315	586,602.7197	1,360,609.1354	377.33
316	586,600.0662	1,360,593.6056	377.38
317	586,581.0431	1,360,596.8619	378.00
318	586,581.0431	1,360,596.8619	378.16
319	586,600.3130	1,360,532.3672	377.97
320	586,600.5174	1,360,558.4487	377.61

- LEGEND**
- 390 --- EXISTING CONTOUR
  - 385 --- PROPOSED CONTOUR
  - - - - - UNDERGROUND ELECTRIC
  - - - - - UNDERGROUND GAS
  - - - - - UNDERGROUND WATER
  - --- EXISTING STORM DRAIN PIPE
  - CONCRETE FOR CURB OPENING
  - MILL AND OVERLAY

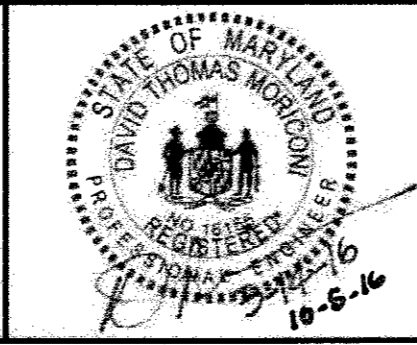
- (2) NEW CONSTRUCTION NOTES (SEE NOTES THIS SHEET)
- (A) ADJUST
- (RR) REMOVE AND RESET
- (R) REMOVE
- H.P. HIGH POINT

**GENERAL NOTES:**  
 1. PRIOR TO INSTALLATION OF PROPOSED CURB, A SAWCUT MUST BE MADE ALONG EXISTING CURB AND GUTTER TO CLEANLY REMOVE AND REINSTALL CURB.



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: Jay De...  
 Director of Planning and Zoning: [Signature]  
 Chief, Bureau of Highways: [Signature]  
 Chief, Bureau of Engineering: [Signature]

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



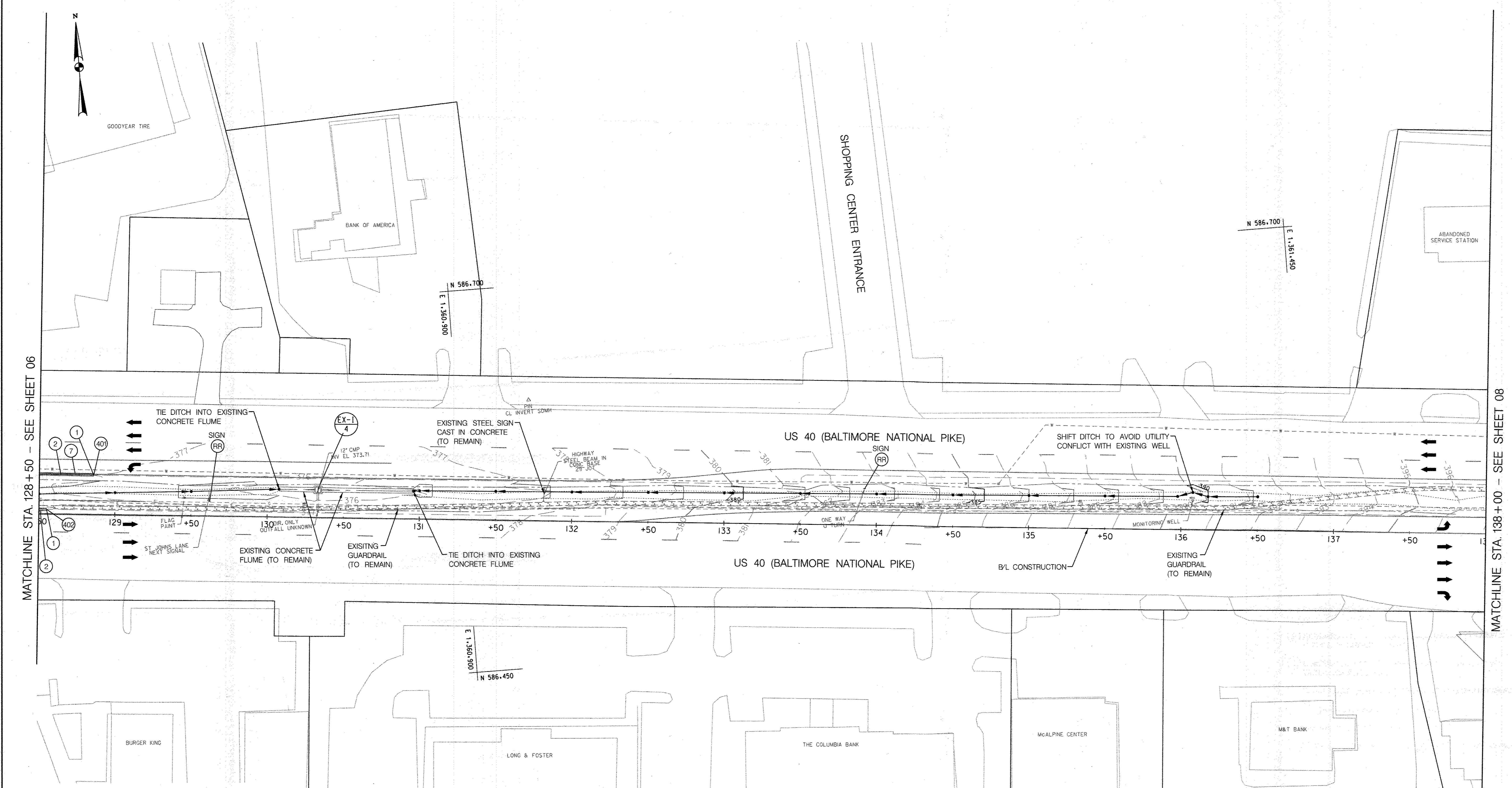
DES: RLL	BY NO.	REVISION	DATE
DRN: RLL			
CHK: DTM			
DATE: 03/16			

**PROPOSED SITE PLAN**  
 SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**  
 2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1"=30'  
 SHEET 6 OF 21

LIP L0288



MATCHLINE STA. 128+50 - SEE SHEET 06

MATCHLINE STA. 138+00 - SEE SHEET 08

- NEW CONSTRUCTION NOTES**
- 1 NOSE DOWN CURB
  - 2 STANDARD TYPE B CONCRETE CURB AND COMBINATION CURB AND GUTTER (MD-620.02)
  - 3 REMOVE EXISTING CONCRETE MEDIAN AND REPLACE WITH LANDSCAPED AREA.
  - 4 CREATE CONCRETE FLUME SEE SECTION 2-2 ON SHEET 2.
  - 5 NO WORK PERFORMED IN THIS MEDIAN.
  - 6 REMOVE CONCRETE FLUME.
  - 7 5" WHITE OR YELLOW THERMOPLASTIC PAVEMENT MARKING.

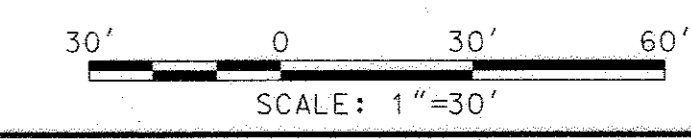
**PROFESSIONAL CERTIFICATION**  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2018"

TYPE B CONCRETE CURB AND GUTTER (MD 620.02)			
POINT	NORTHING	EASTING	FLOW LINE ELEVATION
401	586,597.9040	1,360,658.9030	377.01
402	586,578.2244	1,360,626.1761	377.93

- LEGEND**
- 385 --- EXISTING CONTOUR
  - 385 --- PROPOSED CONTOUR
  - - - - - UNDERGROUND ELECTRIC
  - - - - - UNDERGROUND GAS
  - - - - - UNDERGROUND WATER
  - ===== EXISTING STORM DRAIN PIPE
  - ===== TYPE 'B' CONCRETE CURB AND GUTTER (MD 620.02)
  - CONCRETE FOR CURB OPENING

- 2 NEW CONSTRUCTION NOTES (SEE NOTES THIS SHEET)
- A ADJUST
- RR REMOVE AND RESET
- R REMOVE

**GENERAL NOTES:**  
 1. PRIOR TO INSTALLATION OF PROPOSED CURB, A SAWCUT MUST BE MADE ALONG EXISTING CURB AND GUTTER TO CLEANLY REMOVE AND REINSTALL CURB.



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *Sam J. Han* 11/1/2016  
 Director of Planning and Zoning: *Valerie J. Miller* 11-7-16  
 Chief, Bureau of Highways: *Thomas E. Seale* 11/1/2016  
 Chief, Bureau of Engineering: *Thomas E. Seale* 11/1/2016

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



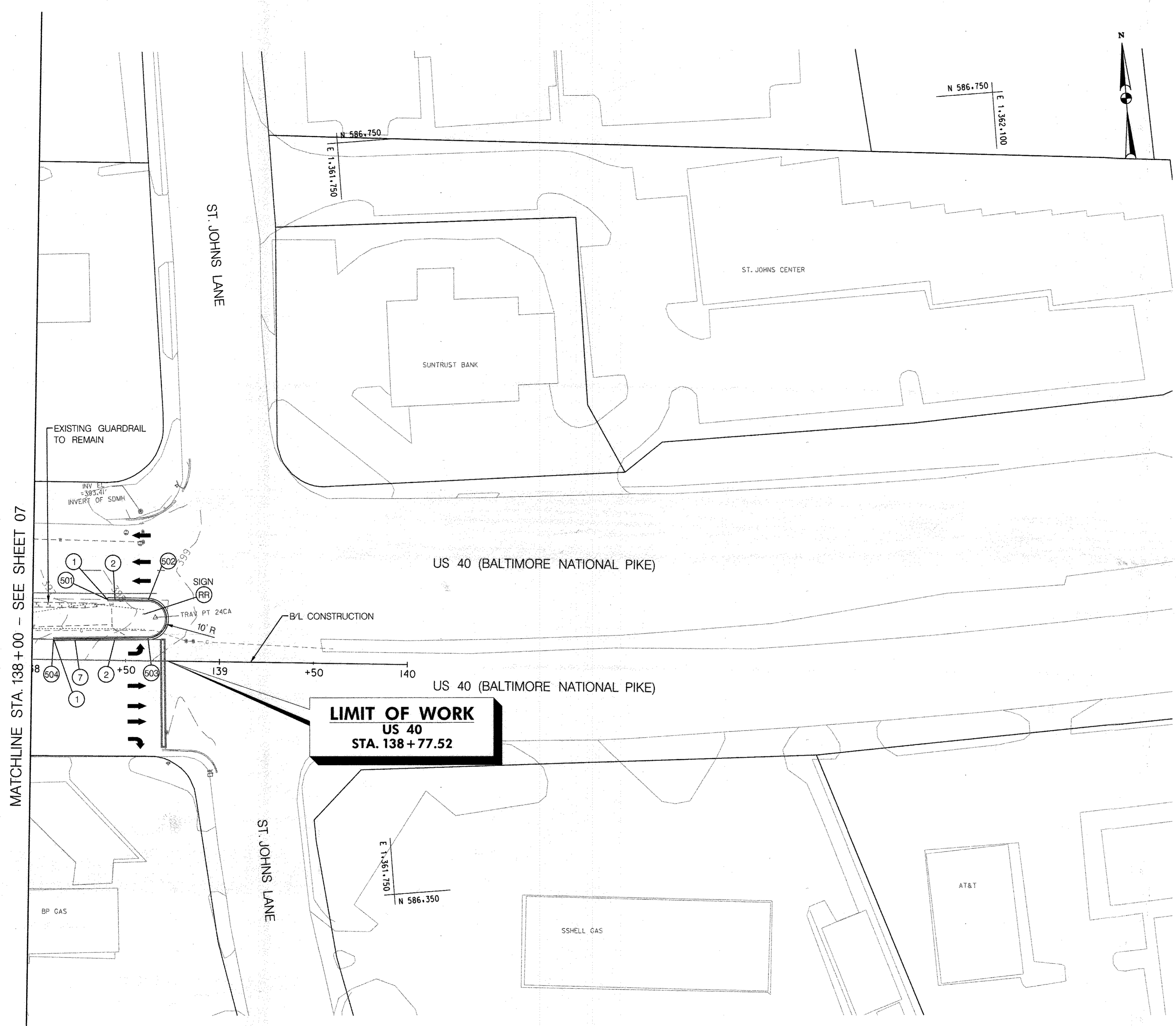
DES: RLL			
DRN: RLL			
CHK: DTM			
DATE: 03/16	BY NO.	REVISION	DATE

**PROPOSED SITE PLAN**  
 SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**  
 2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1"=30'  
 SHEET 7 OF 21

LIP 20298



MATCHLINE STA. 138+00 - SEE SHEET 07

**LIMIT OF WORK**  
US 40  
STA. 138+77.52

TYPE B CONCRETE CURB AND GUTTER (MD 620.02)			
POINT	NORTHING	EASTING	FLOW LINE ELEVATION
501	586,517.6483	1,361,609.7444	397.77
502	586,515.6540	1,361,631.1906	398.31
503	586,495.7209	1,361,629.5736	398.56
504	586,499.1934	1,361,579.4442	397.24

**PROFESSIONAL CERTIFICATION**  
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2018."

- LEGEND**
- EXISTING CONTOUR
  - PROPOSED CONTOUR
  - UNDERGROUND ELECTRIC
  - UNDERGROUND GAS
  - UNDERGROUND WATER
  - EXISTING STORM DRAIN PIPE
  - TYPE 'B' CONCRETE CURB AND GUTTER (MD 620.02)
  - CONCRETE FOR CURB OPENING

- NEW CONSTRUCTION NOTES**
- 1 NOSE DOWN CURB
  - 2 STANDARD TYPE B CONCRETE CURB AND COMBINATION CURB AND GUTTER (MD-620.02)
  - 3 REMOVE EXISTING CONCRETE MEDIAN AND REPLACE WITH LANDSCAPED AREA.
  - 4 CREATE CONCRETE FLUME. SEE SECTION 2-2 ON SHEET 2.
  - 5 NO WORK PERFORMED IN THIS MEDIAN.
  - 6 REMOVE CONCRETE FLUME.
  - 7 5" WHITE OR YELLOW THERMOPLASTIC PAVEMENT MARKING.

- 2 NEW CONSTRUCTION NOTES (SEE NOTES THIS SHEET)
- A ADJUST
- RR REMOVE AND REPLACE
- R REMOVE

**GENERAL NOTES:**  
1. PRIOR TO INSTALLATION OF PROPOSED CURB, A SAWCUT MUST BE MADE ALONG EXISTING CURB AND GUTTER TO CLEANLY REMOVE AND REINSTALL CURB.

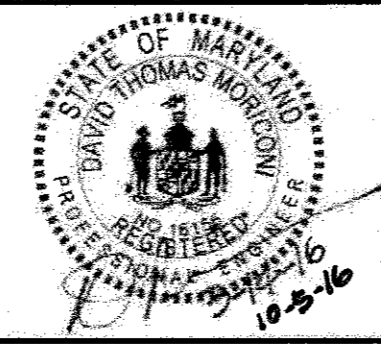


**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
HOWARD COUNTY, MARYLAND

*Carly Ann* 11/16/16  
DIRECTOR OF PUBLIC WORKS DATE

*Thomas P. Buttle* 11/16/16  
CHIEF, BUREAU OF HIGHWAYS DATE

*William J. ...* 11-7-16  
DIRECTOR OF PLANNING AND ZONING DATE



DES: RLL			
DRN: RLL			
CHK: DTM			
DATE: 03/16	BY	NO.	REVISION

**PROPOSED SITE PLAN**

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

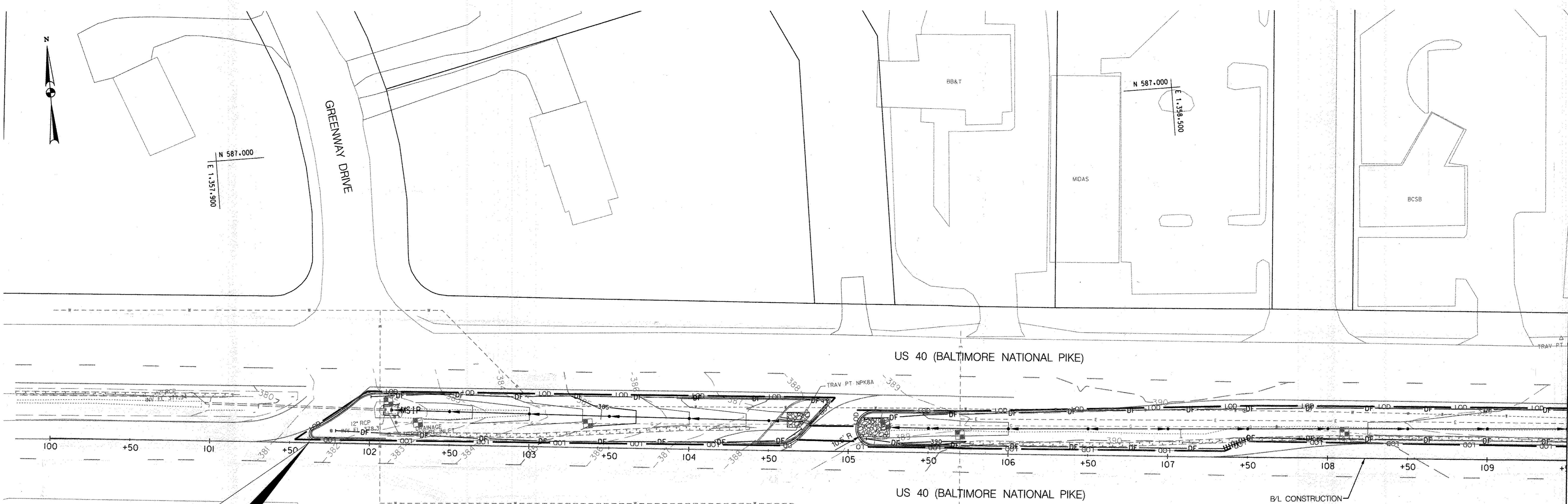
SCALE MAP NO. N/A BLOCK NO.

SCALE  
1"=30'  
SHEET  
8 OF 21

LIP 20298

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**LIMIT OF WORK**  
 US 40  
 STA. 101 + 62.18

**DEVELOPER'S CERTIFICATION**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 SIGNATURE OF DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

**ENGINEER'S CERTIFICATION**  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*David T. Moriconi* 10-5-16  
 URS CORPORATION DATE  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MD 21030

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.  
*John R. ...* 4/16/16  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**PROFESSIONAL CERTIFICATION**  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2018"

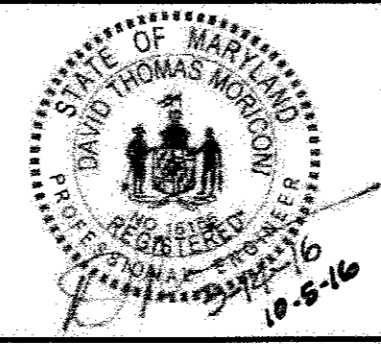
**NOTES:**  
 1. THE CONTRACTOR SHALL PROVIDE SAME DAY STABILIZATION.  
 2. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

- LEGEND**
- 360 --- EXISTING CONTOURS
  - 360 --- PROPOSED CONTOURS
  - LOD --- LIMIT OF CONSTRUCTION (LOD)
  - DF --- DIVERSION FENCE (DF)
  - MSIP MEDIAN SUMP INLET PROTECTION (MSIP)



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *Ray ...* 11/9/16  
 Director of Planning and Zoning: *Val ...* 11-7-16  
 Chief, Bureau of Highways: *John ...* 11/16/16  
 Chief, Bureau of Engineering: *Thomas ...* 11/16/16

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



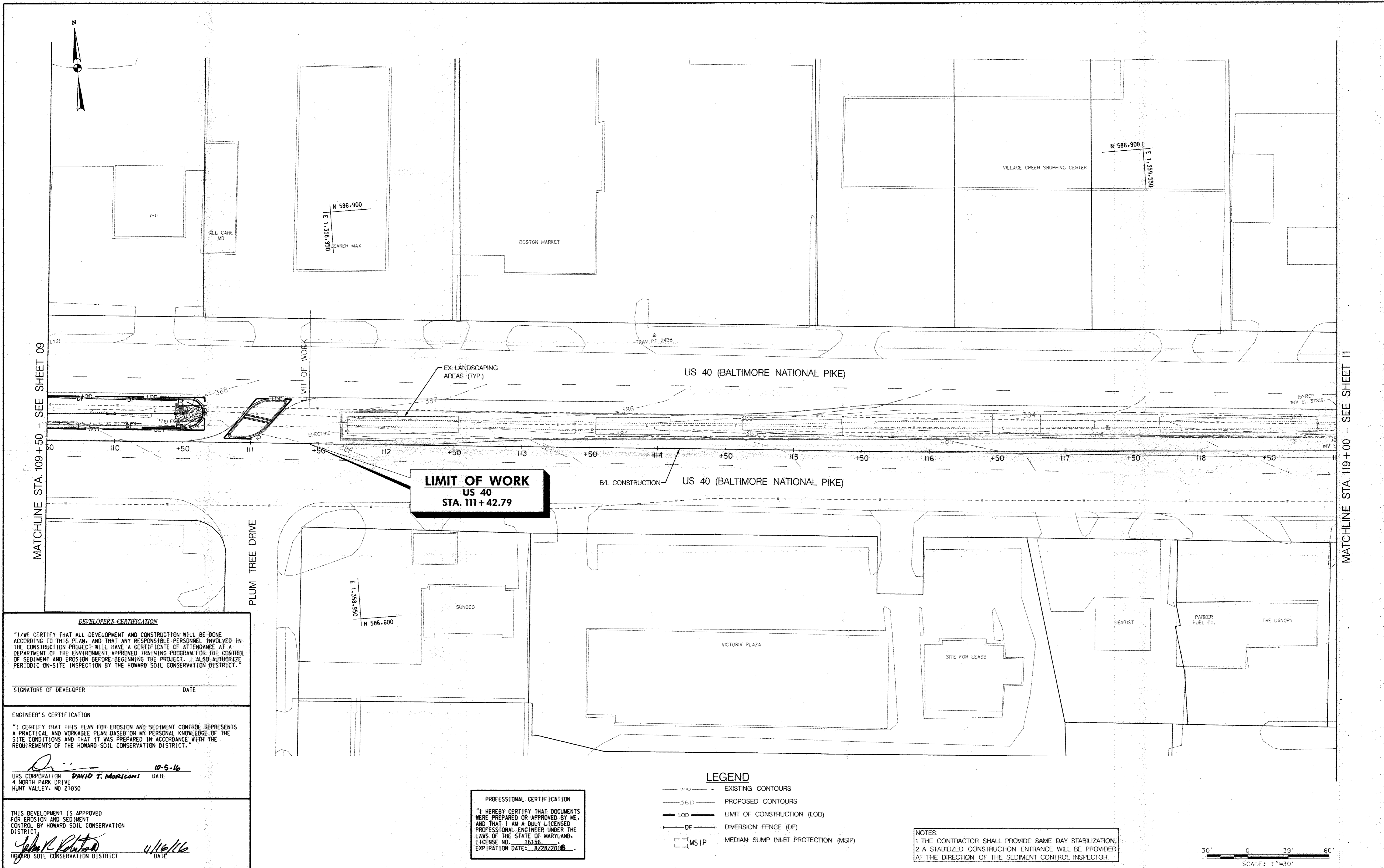
DES:	RLI				
DRN:	RLI				
CHK:	DTM				
DATE:	03/16	BY	NO.	REVISION	DATE

**EROSION & SEDIMENT CONTROL PLAN**  
 SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**  
 2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE  
 1"=30'  
 SHEET  
 9 OF 21

MATCHLINE STA. 109 + 50 - SEE SHEET 10



**LIMIT OF WORK**  
**US 40**  
**STA. 111 + 42.79**

**LIMIT OF WORK**  
**US 40**  
**STA. 111 + 42.79**

**DEVELOPER'S CERTIFICATION**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 SIGNATURE OF DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

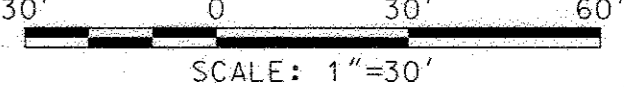
**ENGINEER'S CERTIFICATION**  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
 URS CORPORATION **DAVID T. MORICANI** DATE **10-5-16**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MD 21030

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT  
 HOWARD SOIL CONSERVATION DISTRICT **11/16/16** DATE

**PROFESSIONAL CERTIFICATION**  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2018."

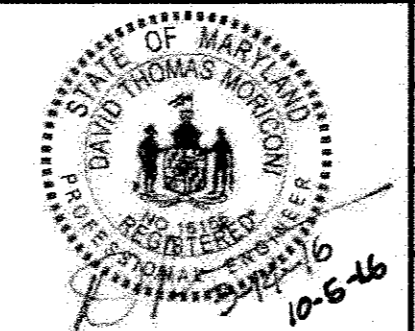
- LEGEND**
- 300 — EXISTING CONTOURS
  - 360 — PROPOSED CONTOURS
  - LOD — LIMIT OF CONSTRUCTION (LOD)
  - DF — DIVERSION FENCE (DF)
  - MSIP — MEDIAN SUMP INLET PROTECTION (MSIP)

**NOTES:**  
 1. THE CONTRACTOR SHALL PROVIDE SAME DAY STABILIZATION.  
 2. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND  
 DIRECTOR OF PUBLIC WORKS **11/16/16** DATE  
 CHIEF, BUREAU OF HIGHWAYS **11/16/16** DATE  
 DIRECTOR OF PLANNING AND ZONING **11-7-16** DATE  
 CHIEF, BUREAU OF ENGINEERING **11/16** DATE

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220

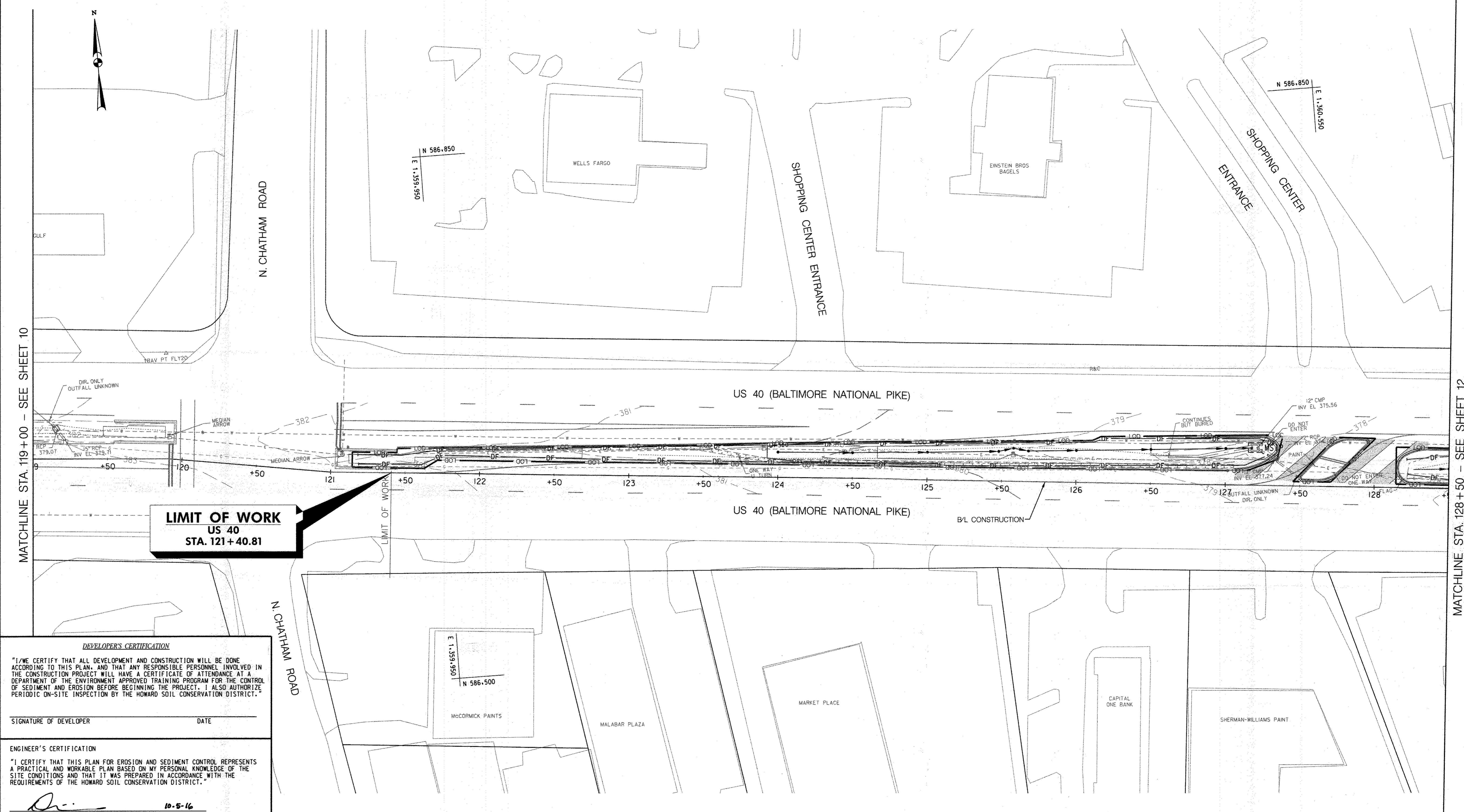


DES:	RLI			
DRN:	RLI			
CHK:	DTM			
DATE:	03/16	BY	NO.	REVISION

**EROSION & SEDIMENT CONTROL PLAN**  
 SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**  
 2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE  
 1"=30'  
 SHEET  
 10 OF 21



**LIMIT OF WORK**  
 US 40  
 STA. 121+40.81

**DEVELOPER'S CERTIFICATION**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 SIGNATURE OF DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

**ENGINEER'S CERTIFICATION**  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*David T. Moriconi* 10-5-16  
 URS CORPORATION DATE  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MD 21030

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.  
*John L. Roberts* 4/16/16  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**PROFESSIONAL CERTIFICATION**  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2018."  
 10-5-16

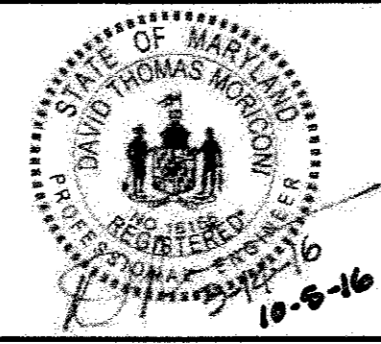
**NOTES:**  
 1. THE CONTRACTOR SHALL PROVIDE SAME DAY STABILIZATION.  
 2. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

- LEGEND**
- 360 — EXISTING CONTOURS
  - 360 — PROPOSED CONTOURS
  - LOD — LIMIT OF CONSTRUCTION (LOD)
  - DF — DIVERSION FENCE (DF)
  - MSIP MEDIAN SUMP INLET PROTECTION (MSIP)



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND  
*Janet...* 11-7-16  
 DIRECTOR OF PUBLIC WORKS DATE  
*Thomas...* 11/4/16  
 CHIEF, BUREAU OF ENGINEERING DATE

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



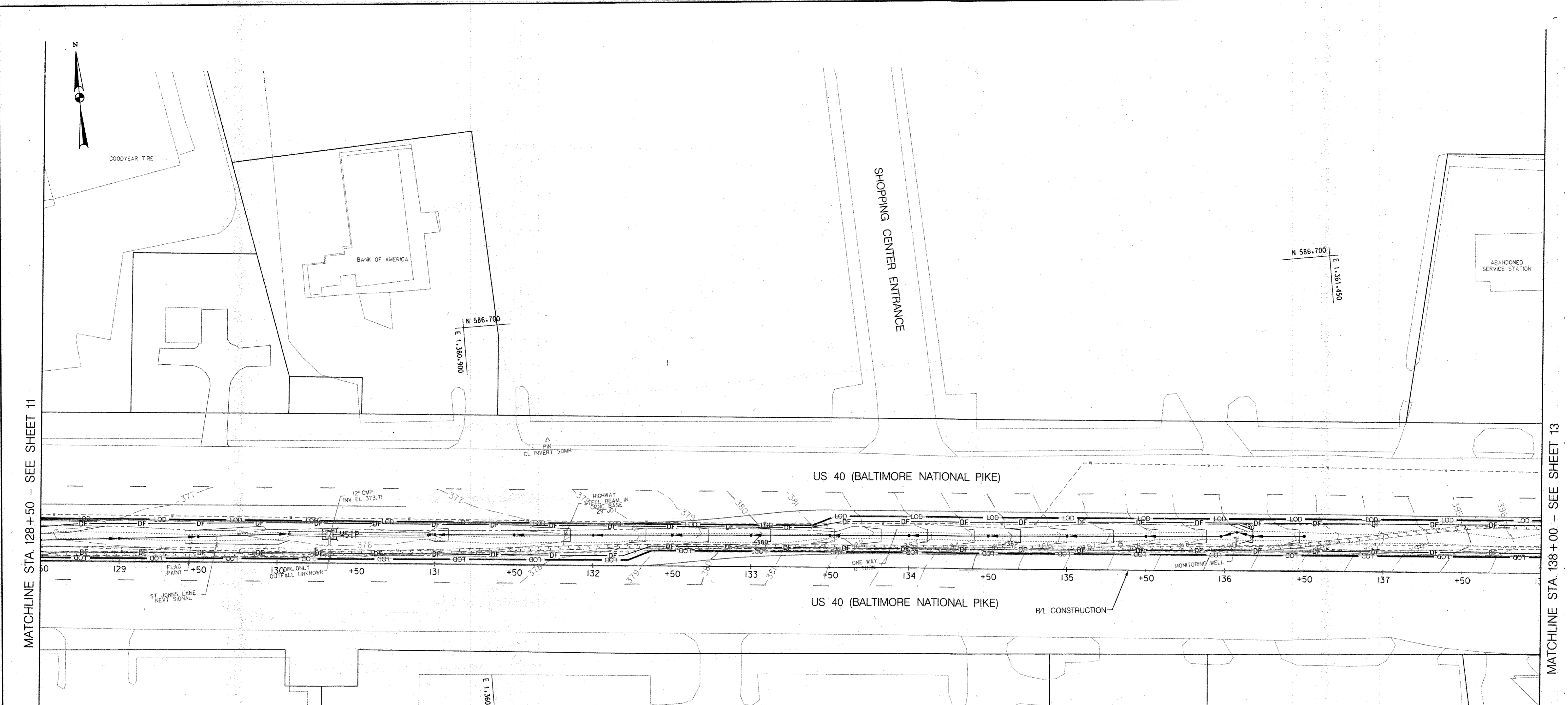
DES:	RLI				
DRN:	RLI				
CHK:	DTM				
DATE:	03/16	BY	NO.	REVISION	DATE

**EROSION & SEDIMENT CONTROL PLAN**  
 SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**  
 2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE  
 1"=30'  
 SHEET  
 11 OF 21

LIP 40298



MATCHLINE STA. 128+50 - SEE SHEET 11

MATCHLINE STA. 138+00 - SEE SHEET 13

**DEVELOPER'S CERTIFICATION**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

**ENGINEER'S CERTIFICATION**

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*David T. Moriconi* 10-5-16  
 URS CORPORATION DATE  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MD 21030

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

*Shirley K. Roberts* 4/16/16  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**PROFESSIONAL CERTIFICATION**

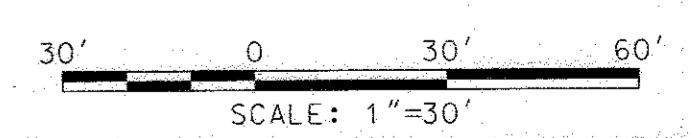
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2018"

**NOTES:**

1. THE CONTRACTOR SHALL PROVIDE SAME DAY STABILIZATION.  
 2. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

**LEGEND**

- 360 --- EXISTING CONTOURS
- 360 --- PROPOSED CONTOURS
- LOD --- LIMIT OF CONSTRUCTION (LOD)
- DF --- DIVERSION FENCE (DF)
- MSIP MEDIAN SUMP INLET PROTECTION (MSIP)



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND

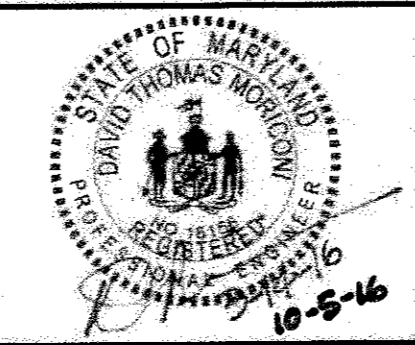
*Janet A. ...* 11-7-16  
 DIRECTOR OF PUBLIC WORKS DATE

*Thomas E. ...* 4/16/16  
 CHIEF, BUREAU OF ENGINEERING DATE

PREPARED BY

**URS**

4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



DES: RLL			
DRN: RLL			
CHK: DTM			
DATE: 03/16	BY NO.	REVISION	DATE

**EROSION & SEDIMENT CONTROL PLAN**

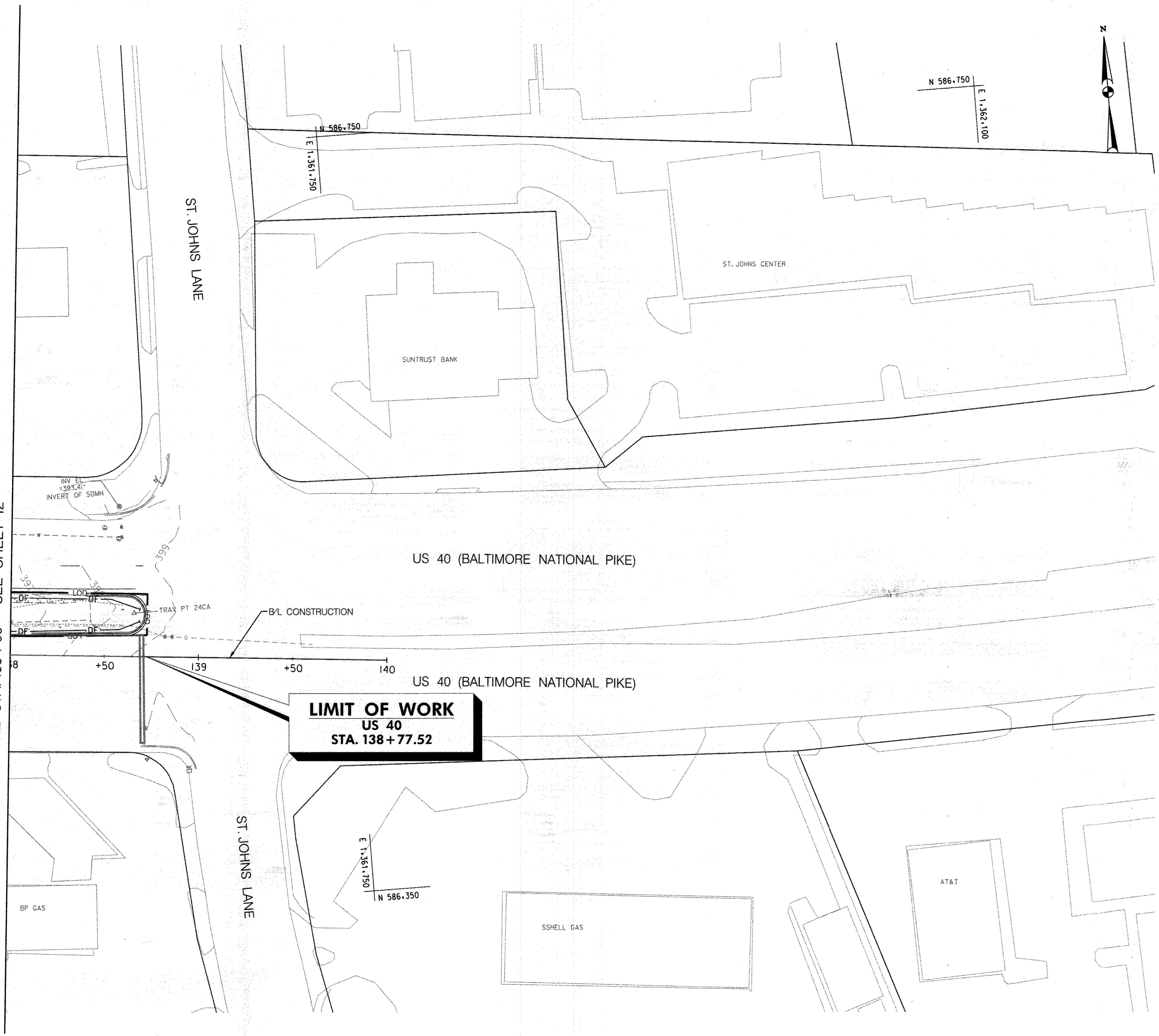
SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1"=30'  
 SHEET 12 OF 21

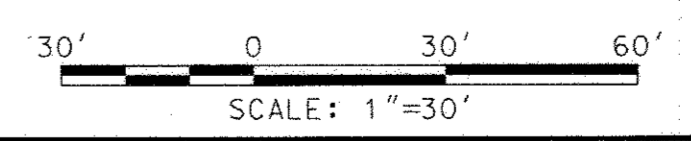
MATCHLINE STA. 138+00 - SEE SHEET 12



NOTES:  
 1. THE CONTRACTOR SHALL PROVIDE SAME DAY STABILIZATION.  
 2. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.

PROFESSIONAL CERTIFICATION  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2018."

- LEGEND**
- 360 --- EXISTING CONTOURS
  - 360 --- PROPOSED CONTOURS
  - LOD --- LIMIT OF CONSTRUCTION (LOD)
  - DF --- DIVERSION FENCE (DF)
  - MSIP MEDIAN SUMP INLET PROTECTION (MSIP)



**DEVELOPER'S CERTIFICATION**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

**ENGINEER'S CERTIFICATION**  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*David T. Moriconi* 10-5-16  
 URS CORPORATION DATE  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MD 21030

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

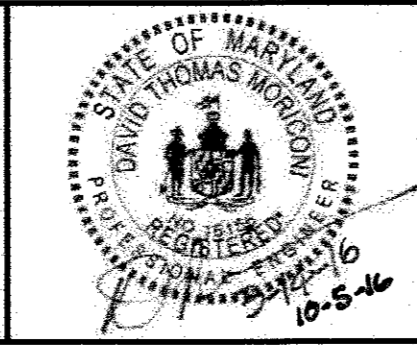
*John K. [Signature]* 4/16/16  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* 11/7/16  
 Director of Planning and Zoning: *[Signature]* 11/4/16

Chief, Bureau of Highways: *[Signature]*  
 Chief, Bureau of Engineering: *[Signature]*

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



DES:	RLI				
ORN:	RLI				
CHK:	DTM				
DATE:	03/16	BY	NO.	REVISION	DATE

**EROSION & SEDIMENT CONTROL PLAN**

SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1"=30'  
 SHEET 13 OF 21

LIP 20298

B-4.2 STANDARDS AND SPECIFICATIONS

FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS
Definition: The process of preparing the soils to sustain adequate vegetative stabilization.
Purpose: To provide a suitable soil medium for vegetative growth.
Conditions Where Practice Applies: Where vegetative stabilization is to be established.

- 1. Temporary Stabilization
a. Seeded preparation consists of loosening soil to a depth of 1 to 5 inches by means of suitable agricultural or construction equipment...
b. Apply fertilizer and lime as prescribed on the plans.
c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. Permanent Stabilization
a. A soil test is required for any earth disturbance of 5 acres or more...
b. Soil amendments
c. Topsoiling
d. Soil Amendments (Fertilizer and Lime Specifications)

B-4.3 STANDARDS AND SPECIFICATIONS

FOR SEEDING AND MULCHING
Definition: The application of seed and mulch to establish vegetative cover.
Purpose: To protect disturbed soils from erosion during and at the end of construction.
Conditions Where Practice Applies: To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

- A. Seeding
1. Specifications
a. All seed used must meet the requirements of the Maryland State Seed Law...
b. Seed mixtures
c. Application
d. Mulch
2. Application
a. Apply seeds to all seeded areas immediately after seeding.
b. Apply seeds to all seeded areas immediately after seeding.
c. Anchoring
d. Sod Maintenance

B-4.4 STANDARDS AND SPECIFICATIONS

FOR TEMPORARY STABILIZATION
Definition: To stabilize disturbed soils with vegetation for up to 6 months.
Purpose: To stabilize disturbed soils with vegetation for up to 6 months.
Conditions Where Practice Applies: Exposed soils where ground cover is needed for 6 months or more.

- A. Seed Mixtures
1. General Use
a. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardness Zone...
b. Additional planting specifications for exceptional sites such as ditches, stream banks, and dunes...
c. For areas having disturbed areas of 5 acres, use seed and straw mulch recommended by the soil testing agency.
2. Turfgrass Mixtures
a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites...
b. Select one or more of the species or seed mixtures listed below based on the conditions or purpose...
c. Soil tests are not required for Temporary Seeding.

B-4.4 STANDARDS AND SPECIFICATIONS

FOR SEQUENCE OF CONSTRUCTION - GENERAL NOTES
1. THE CONTRACTOR SHALL NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AT (410) 489-7987 AT LEAST SEVEN (7) DAYS PRIOR TO ANY EARTH DISTURBANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE INSPECTOR.
2. UTILITIES AND STORM DRAINS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS ARE FOR THE GUIDANCE OF THE CONTRACTOR ONLY. CONTRACTOR SHALL CALL "X" MARK UTILITY AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND UTILITIES IN THE AREA OF THE PROPOSED EXCAVATION AND HAVE THOSE UTILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.

- 3. THE EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONING PRIOR TO CLEARING THE ENTIRE SITE CLEAR AND GRUB FOR EROSION AND SEDIMENT CONTROL MEASURES OR DEVICES ONLY ON COMMENCEMENT OF CONSTRUCTION.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCES AND OTHER EROSION SEDIMENT CONTROL DEVICES AS PER THE EROSION AND SEDIMENT CONTROL PLANS. THE LOCATIONS FOR STABILIZED CONSTRUCTION ENTRANCES SHOWN ON THE PLANS ARE APPROXIMATE AND EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD WITH APPROVAL FROM THE ENGINEER AND INSPECTOR.
5. MAINTAIN ALL SEDIMENT CONTROL PRACTICES ACCORDING TO THE MARYLAND 2011 STANDARDS UNTIL THE ENTIRE SITE IS STABILIZED.
6. CONTRACTOR SHALL LOCATE THE STAGING AND STOCKPILE AREA AND IS RESPONSIBLE FOR PROVIDING ANY ADDITIONAL EROSION CONTROLS FOR STAGING AND STOCKPILE AREAS AS REQUIRED BY THE INSPECTOR.
7. CLEAR AND GRUB AND PROCEED TO CONSTRUCTION ACCORDING TO THE SEQUENCE SPECIFIED ON THE TRAFFIC CONTROL PLAN SHEETS. STORM DRAIN SYSTEMS SHALL ALWAYS BE CONSTRUCTED FROM THE DOWNSTREAM ENDS. INLET PROTECTIONS SHALL BE INSTALLED AT EXISTING INLETS BEFORE ANY DISTURBANCE IN THE WORK AREA. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUN OFF IS DIRECTED TO AN ADEQUATE SEDIMENT CONTROL DEVICE. CONTRACTOR SHALL USE PORTABLE SEDIMENT TANK TO Dewater THE WORKING AREA DURING CONSTRUCTION.
8. CONSTRUCTION SHALL BE COMPLETED IN THE FOLLOWING SEQUENCE:
THE FOLLOWING SEQUENCE OF CONSTRUCTION DESCRIBES IN PART THE STEPS REQUIRED TO COMPLETE THE PROPOSED WORK. CONTRACTOR IS RESPONSIBLE FOR DETERMINING INTERIM SEQUENCE OF CONSTRUCTION MEANS, METHODS, MATERIALS, LABOR AND/OR EQUIPMENT NECESSARY TO SATISFACTORILY CONSTRUCT THE FEATURES AS SHOWN ON THE PLANSET. IT SHALL BE CLEARLY UNDERSTOOD THAT FAILURE TO SPECIFICALLY MENTION ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE THE PROJECT TO THE OWNER'S SATISFACTION.

B-4.4 STANDARDS AND SPECIFICATIONS

FOR SEDIMENT CONTROL GENERAL NOTES
1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
A. THREE (3) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
B. SEVEN (7) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE/SITE SITE.

- 4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
6. SITE ANALYSIS:
TOTAL AREA OF SITE - 12.6 ACRES
AREA DISTURBED - 1.33 ACRES
AREA TO BE ROOFED OR PAVED - 0.01 ACRES (INCLUDES OVERLAY AREA)
AREA TO BE VEGETATIVELY STABILIZED - 1.32 ACRES
TOTAL CUT - 200 CY \*
TOTAL FILL - 0 CY \*
OFF-SITE WASTE SITE - HOWARD COUNTY LANDFILL
OFF-SITE BORROW SITE - APPROVED SITE WITH AN ACTIVE GRADING PERMIT
7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY OR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
8. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
9. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
10. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
11. ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION.
12. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
13. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
14. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
15. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
16. CONSTRUCTION WITHIN, ALONG OR ACROSS STREAM CHANNELS SHALL, AS A MINIMUM, CONFIRM TO CRITERIA DESCRIBED UNDER "MARYLAND'S WATERWAY CONSTRUCTION GUIDELINES."
17. ALL SEDIMENT TRAPBASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOLUME 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
\* APPROXIMATE

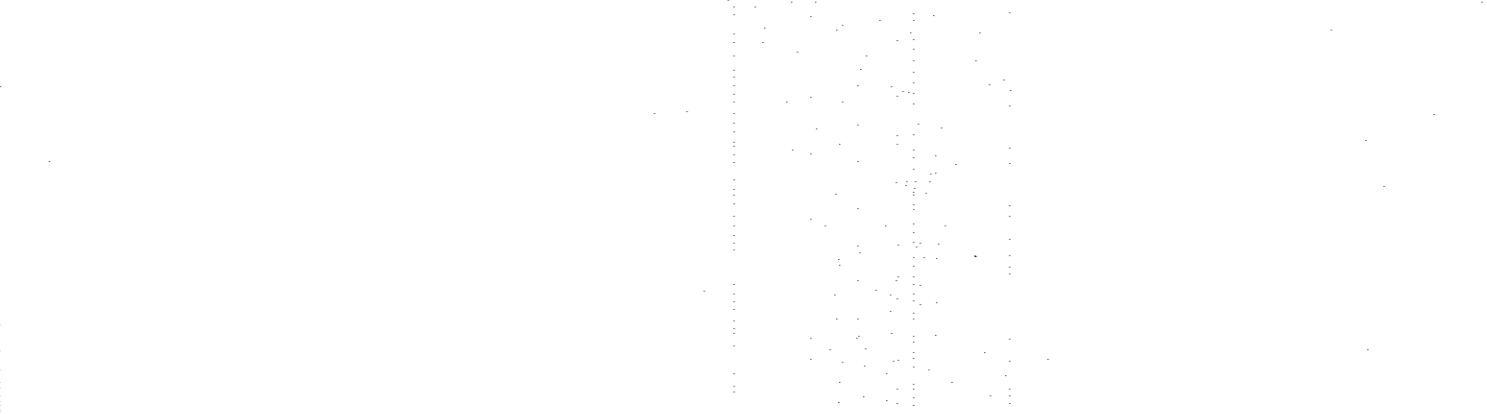
DEVELOPER'S CERTIFICATION
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SIGNATURE OF DEVELOPER DATE
DAVID T. MORICANI 10-5-16
URS CORPORATION
4 NORTH PARK DRIVE
HUNT VALLEY, MD 21030

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR OF PUBLIC WORKS DATE
DIRECTOR OF PLANNING AND ZONING DATE
CHIEF, BUREAU OF HIGHWAYS DATE
CHIEF, BUREAU OF ENGINEERING DATE

Table with 6 columns: Hardness Zone, Species, Application Rate (lb/acre), Seeding Dates, Seeding Depth, Fertilizer Rate (lb/acre), Lime Rate. Includes rows for FOXTAIL MILLE, PEARL MILLET, and FESCUE.

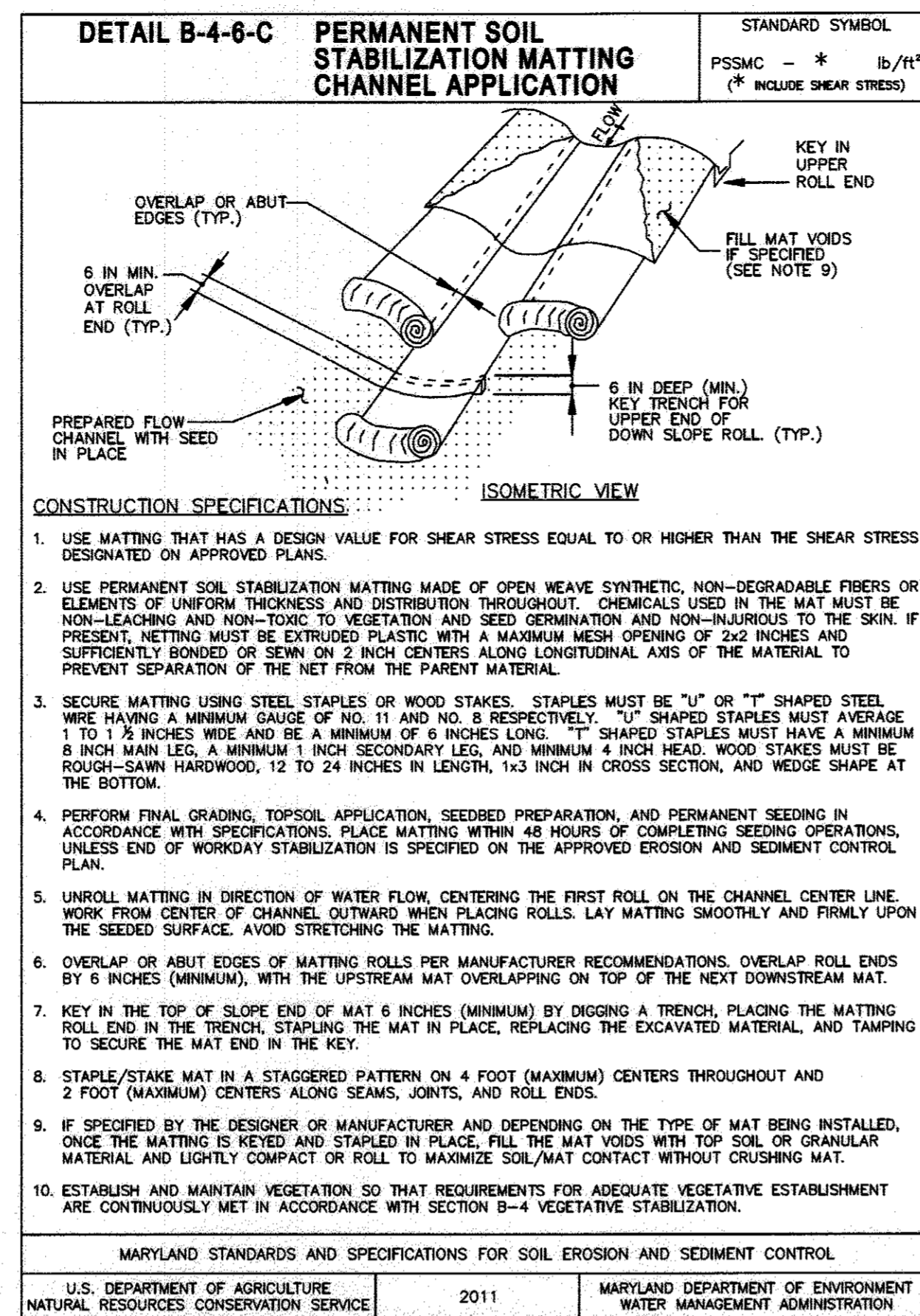
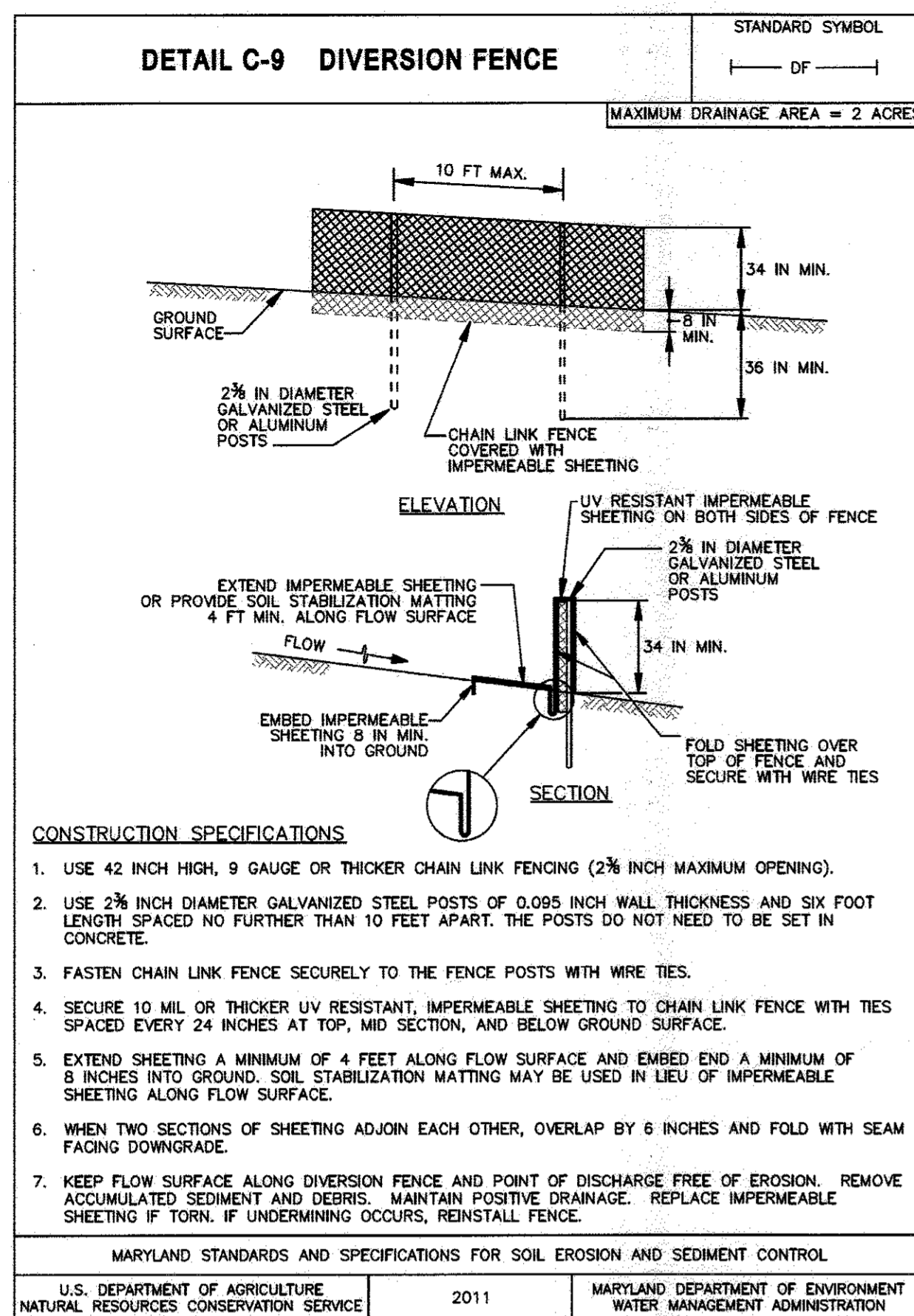


PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2018

Professional Engineer Seal for David T. Moricani, License No. 16156, State of Maryland. Includes text: 'I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2018'.

EROSION AND SEDIMENT CONTROL DETAILS AND NOTES - 1
SCALE AS SHOWN
SHEET 14 OF 21
SCALE MAP NO. N/A BLOCK NO.
2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

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### B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

**Definition:** A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

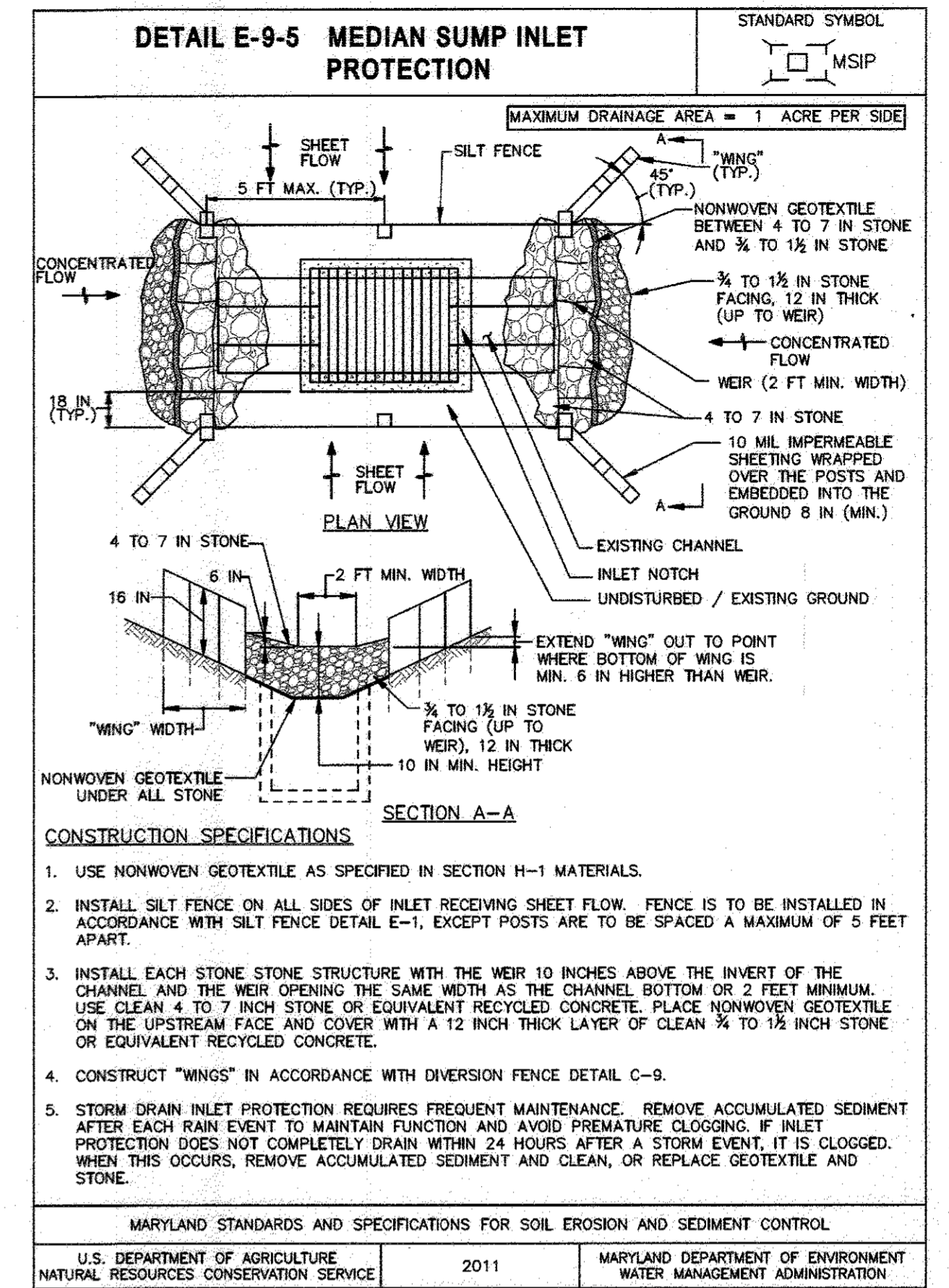
**Purpose:** To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

**Conditions Where Practice Applies:** Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

**Criteria:**

- The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
- The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
- Runoff from the stockpile area must drain to a suitable sediment control practice.
- Access the stockpile area from the upgrade side.
- Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
- Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
- Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
- If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

**Maintenance:** The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.



**DEVELOPER'S CERTIFICATION**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER: \_\_\_\_\_ DATE: \_\_\_\_\_

**ENGINEER'S CERTIFICATION**

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

DATE: 10-5-16  
DAVID T. MORICANI

URS CORPORATION  
4 NORTH PARK DRIVE  
HUNT VALLEY, MD 21030

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

DATE: 11/16/16  
HOWARD SOIL CONSERVATION DISTRICT

**PROFESSIONAL CERTIFICATION**

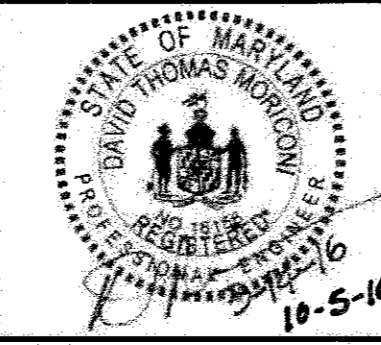
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**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
HOWARD COUNTY, MARYLAND

DATE: 11-7-16  
DIRECTOR OF PLANNING AND ZONING

DATE: 11/16/16  
CHIEF, BUREAU OF ENGINEERING

PREPARED BY  
**URS**  
4 NORTH PARK DRIVE  
HUNT VALLEY, MARYLAND  
TEL: (410) 785-7220



DES:	RL				
DRN:	RL				
CHK:	DTM				
DATE:	03/16				
BY	NO.	REVISION	DATE		

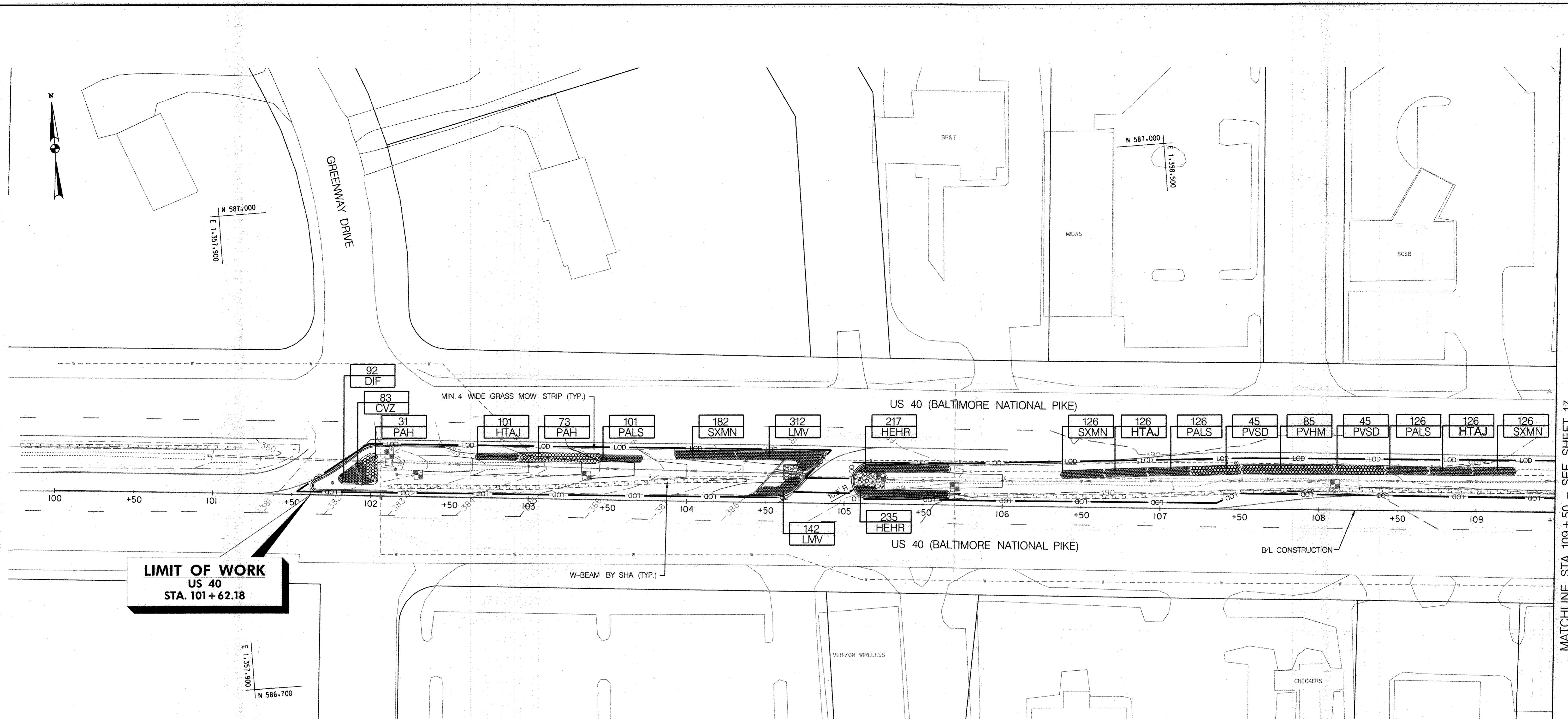
**EROSION AND SEDIMENT CONTROL  
DETAILS AND NOTES - 2**

SCALE MAP NO. N/A BLOCK NO. \_\_\_\_\_

**US ROUTE 40 STREETSCAPE  
MASTER PLAN IMPLEMENTATION**

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 15 OF 21

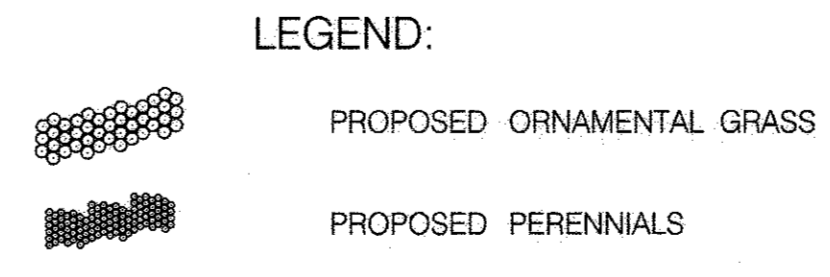


**LIMIT OF WORK**  
US 40  
STA. 101+62.18

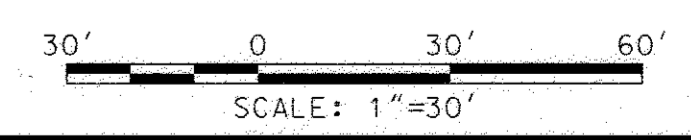
MASTER PLANT SCHEDULE							
KEY	TOTAL QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	REMARKS
<b>PERENNIALS</b>							
CVZ	851	COREOPSIS VERTICILLATA 'ZAGREB'	ZAGREB WHORLED TICKSEED	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
DF	803	DIANTHUS GRATIANOPOLITANUS 'FIREWITCH'	FIREWITCH CHEDDAR PINK	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 3-6"
HEHR	820	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
HTAJ	353	HYLOTELEPHUM TELEPHUM 'AUTUMN JOY'	SEDUM AUTUMN JOY	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 18-24"
LMV	822	LIRIOPE MUSCARI 'VAREGATA'	VAREGATED LILYTURF	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
PALS	353	PEROVSKIA ATRIPLICIFOLIA 'LITTLE SPIRE'	LITTLE SPIRE RUSSIAN SAGE	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 18-24"
SXMN	434	SALVIA 'MAY NIGHT'	MAY NIGHT SALVIA	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 18-24"
<b>ORNAMENTAL GRASSES</b>							
PAH	150	PENNISETUM ALOPECUROIDES 'HAMMELN'	HAMMELN FOUNTAIN GRASS	1 GAL.	CONT.	24" O.C.	MATURE HEIGHT - 18-24"
PVHM	85	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	1 GAL.	CONT.	24" O.C.	MATURE HEIGHT - 4-5'
PVSD	90	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	1 GAL.	CONT.	24" O.C.	MATURE HEIGHT - 3-4'
5100 TURFGRASS ESTABLISHMENT							

PLANT SCHEDULE LD-01							
KEY	TOTAL QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	REMARKS
<b>PERENNIALS</b>							
CVZ	83	COREOPSIS VERTICILLATA 'ZAGREB'	ZAGREB WHORLED TICKSEED	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
DF	92	DIANTHUS GRATIANOPOLITANUS 'FIREWITCH'	FIREWITCH CHEDDAR PINK	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 3-6"
HEHR	452	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
HTAJ	353	HYLOTELEPHUM TELEPHUM 'AUTUMN JOY'	SEDUM AUTUMN JOY	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 18-24"
LMV	454	LIRIOPE MUSCARI 'VAREGATA'	VAREGATED LILYTURF	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
PALS	353	PEROVSKIA ATRIPLICIFOLIA 'LITTLE SPIRE'	LITTLE SPIRE RUSSIAN SAGE	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 18-24"
SXMN	434	SALVIA 'MAY NIGHT'	MAY NIGHT SALVIA	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 18-24"
<b>ORNAMENTAL GRASSES</b>							
PAH	104	PENNISETUM ALOPECUROIDES 'HAMMELN'	HAMMELN FOUNTAIN GRASS	1 GAL.	CONT.	24" O.C.	MATURE HEIGHT - 18-24"
PVHM	85	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	1 GAL.	CONT.	24" O.C.	MATURE HEIGHT - 4-5'
PVSD	90	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	1 GAL.	CONT.	24" O.C.	MATURE HEIGHT - 3-4'

**PROFESSIONAL CERTIFICATION**  
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2016."

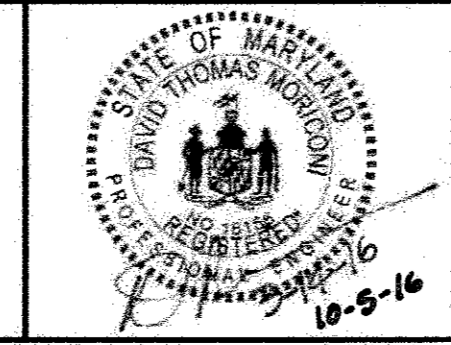


**NOTE:**  
DISTURBED AREAS WITHIN THE LOD NOT PAVED OR DESIGNATED AS PLANTING BED SHALL RECEIVE TURFGRASS SOD ESTABLISHMENT.



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
HOWARD COUNTY, MARYLAND  
DIRECTOR OF PUBLIC WORKS: [Signature] DATE: 11-7-16  
CHIEF, BUREAU OF HIGHWAYS: [Signature] DATE: 11/12/16  
DIRECTOR OF PLANNING AND ZONING: [Signature] DATE: 11-7-16  
CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 11/16/16

PREPARED BY  
**URS**  
4 NORTH PARK DRIVE  
HENT VALLEY, MARYLAND  
TEL: (410) 785-7220



DES:	RLI				
DRN:	RLI				
CHK:	DTM				
DATE:	03/16				
BY	NO.	REVISION	DATE		

**LANDSCAPE PLAN**  
SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**  
2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND  
SHEET 16 OF 21  
LIP L0298

MATCHLINE STA. 109+50 - SEE SHEET 17

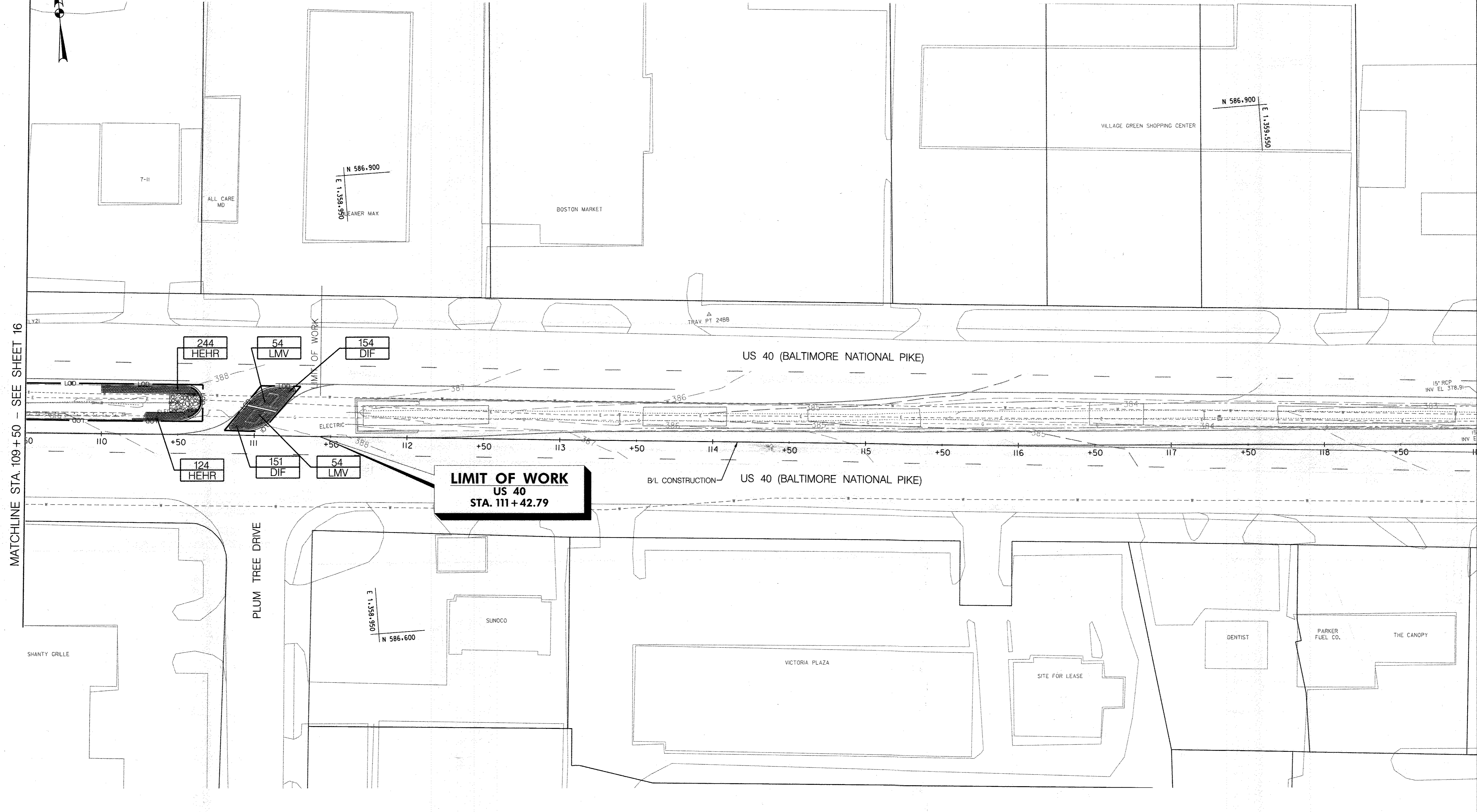
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MATCHLINE STA. 109+50 - SEE SHEET 16

MATCHLINE STA. 119+00 - SEE SHEET 18



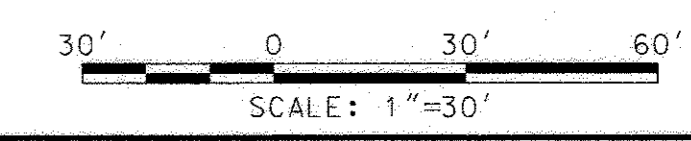
**LIMIT OF WORK**  
US 40  
STA. 111+42.79

PLANT SCHEDULE LD-02							
KEY	TOTAL QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	REMARKS
DIF	305	DIANTHUS GRATIANOPOLITANUS 'FIREWITCH'	FIREWITCH CHEDDAR PINK	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 3-6"
HEHR	368	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
LMV	108	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"

**PROFESSIONAL CERTIFICATION**  
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**LEGEND:**

- PROPOSED ORNAMENTAL GRASS
- PROPOSED PERENNIALS

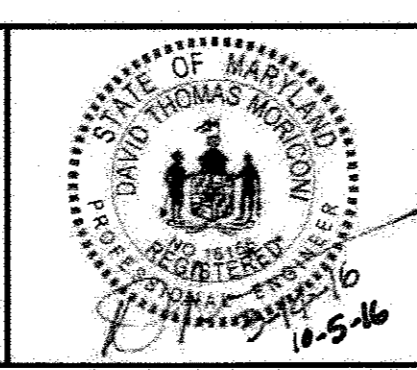


**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
HOWARD COUNTY, MARYLAND

Director of Public Works: *Jan G. Han* DATE: 11-7-11  
 Director of Planning and Zoning: *Thomas J. Butler* DATE: 11/4/16

Chief, Bureau of Highways: *Thomas J. Butler* DATE: 11/4/16  
 Chief, Bureau of Engineering: *Thomas J. Butler* DATE: 11/4/16

PREPARED BY  
**URS**  
4 NORTH PARK DRIVE  
HUNT VALLEY, MARYLAND  
TEL: (410) 785-7220



DES: RLL			
ORN: RLL			
CHK: DTM			
DATE: 03/16	BY: NO.	REVISION	DATE

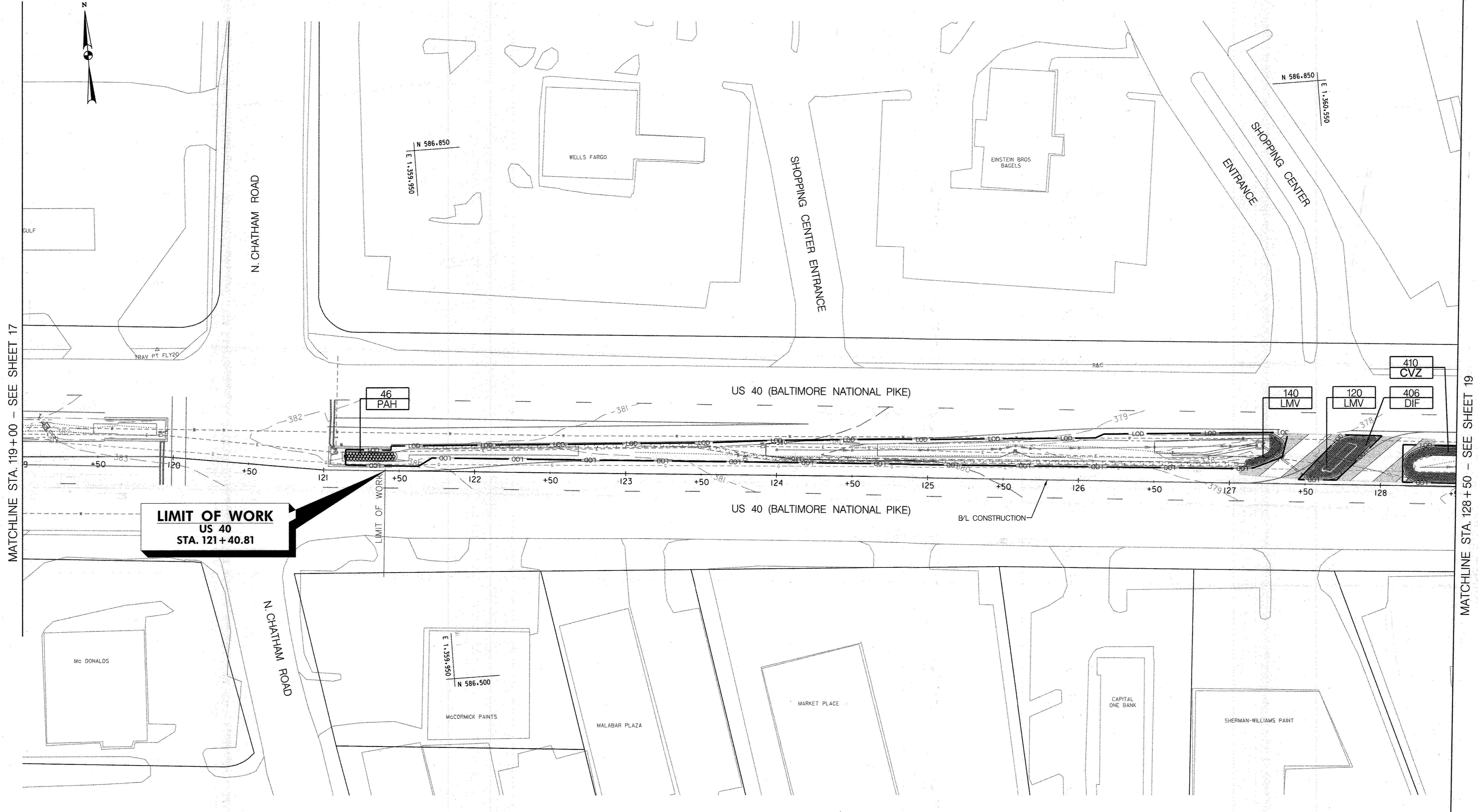
**LANDSCAPE PLAN**

SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1"=30'  
SHEET 17 OF 21

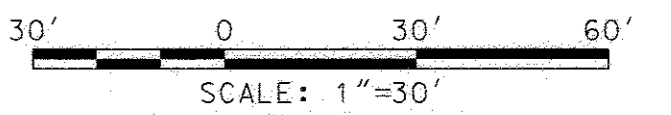


**LIMIT OF WORK**  
US 40  
STA. 121+40.81

PLANT SCHEDULE LD-03							
KEY	TOTAL QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	REMARKS
<b>PERENNIALS</b>							
CVZ	410	COREOPSIS VERTICILLATA 'ZAGREB'	ZAGREB WHORLED TICKSEE	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
DIF	406	DIANTHUS GRATIANOPOLITANUS 'FIREWITCH'	FIREWITCH CHeddar PINK	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 3-6"
LMV	260	LIRIOPE MUSCARI 'VARIEGATA'	VAREGATED LILYTURF	1 GAL.	CONT.	12" O.C.	MATURE HEIGHT - 12-18"
<b>ORNAMENTAL GRASSES</b>							
PAH	46	PENNISETUM ALOPECUROIDES 'HAMMELN'	HAMMELN FOUNTAIN GRASS	1 GAL.	CONT.	24" O.C.	MATURE HEIGHT - 18-24"

**PROFESSIONAL CERTIFICATION**  
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**LEGEND:**  
 PROPOSED ORNAMENTAL GRASS  
 PROPOSED PERENNIALS



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
HOWARD COUNTY, MARYLAND  
 Director of Public Works: *Carroll* DATE: 11-7-16  
 Director of Planning and Zoning: *Thomas* DATE: 11/4/16  
 Chief, Bureau of Highways: *Murphy* DATE: *11/4/16*  
 Chief, Bureau of Engineering: *Butler* DATE: *11/4/16*

PREPARED BY  
**URS**  
4 NORTH PARK DRIVE  
HUNT VALLEY, MARYLAND  
TEL: (410) 785-7220



DES: RLL			
DRN: RLL			
CHK: DTM			
DATE: 03/16	BY NO.	REVISION	DATE

LANDSCAPE PLAN

US ROUTE 40 STREETSCAPE  
MASTER PLAN IMPLEMENTATION

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE  
1"=30'  
SHEET  
18 OF 21

LIP 20298

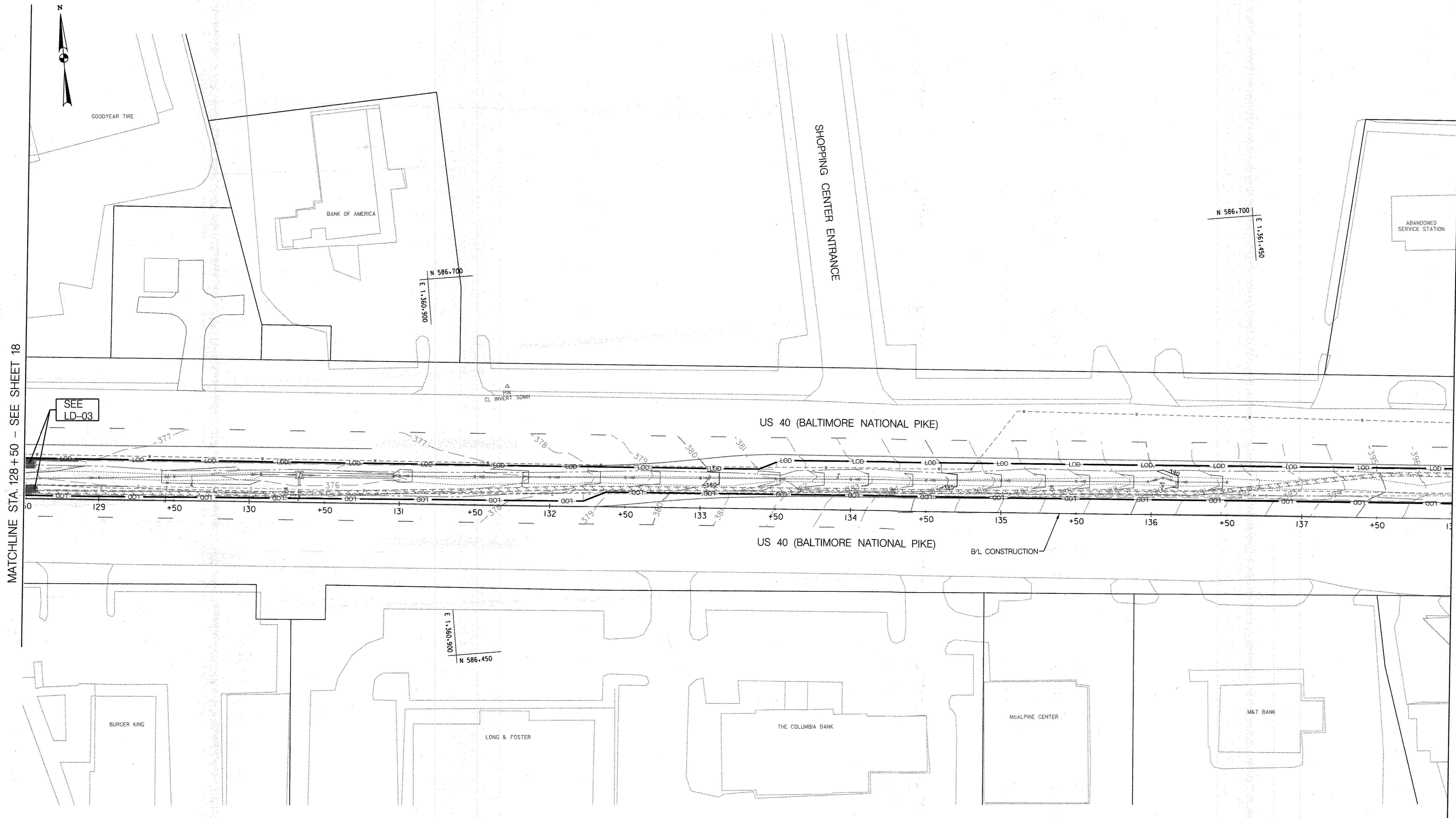
MATCHLINE STA. 119+00 - SEE SHEET 17

MATCHLINE STA. 128+50 - SEE SHEET 19

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MATCHLINE STA. 128+50 - SEE SHEET 18

MATCHLINE STA. 138+00 - SEE SHEET 20



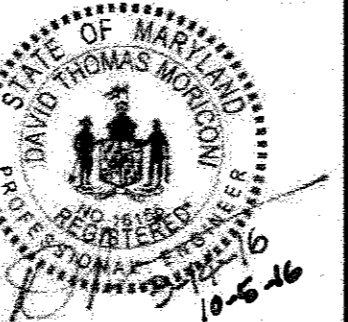
PROFESSIONAL CERTIFICATION  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2018."

LEGEND:  
 PROPOSED ORNAMENTAL GRASS  
 PROPOSED PERENNIALS

30' 0 30' 60'  
 SCALE: 1"=30'

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *John J. ...* DATE: 11-7-16  
 Director of Planning and Zoning: *Thomas S. ...* DATE: 11/4/16  
 Chief, Bureau of Highways: *...* DATE: ...  
 Chief, Bureau of Engineering: *...* DATE: ...

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HUNT VALLEY, MARYLAND  
 TEL: (410) 785-7220



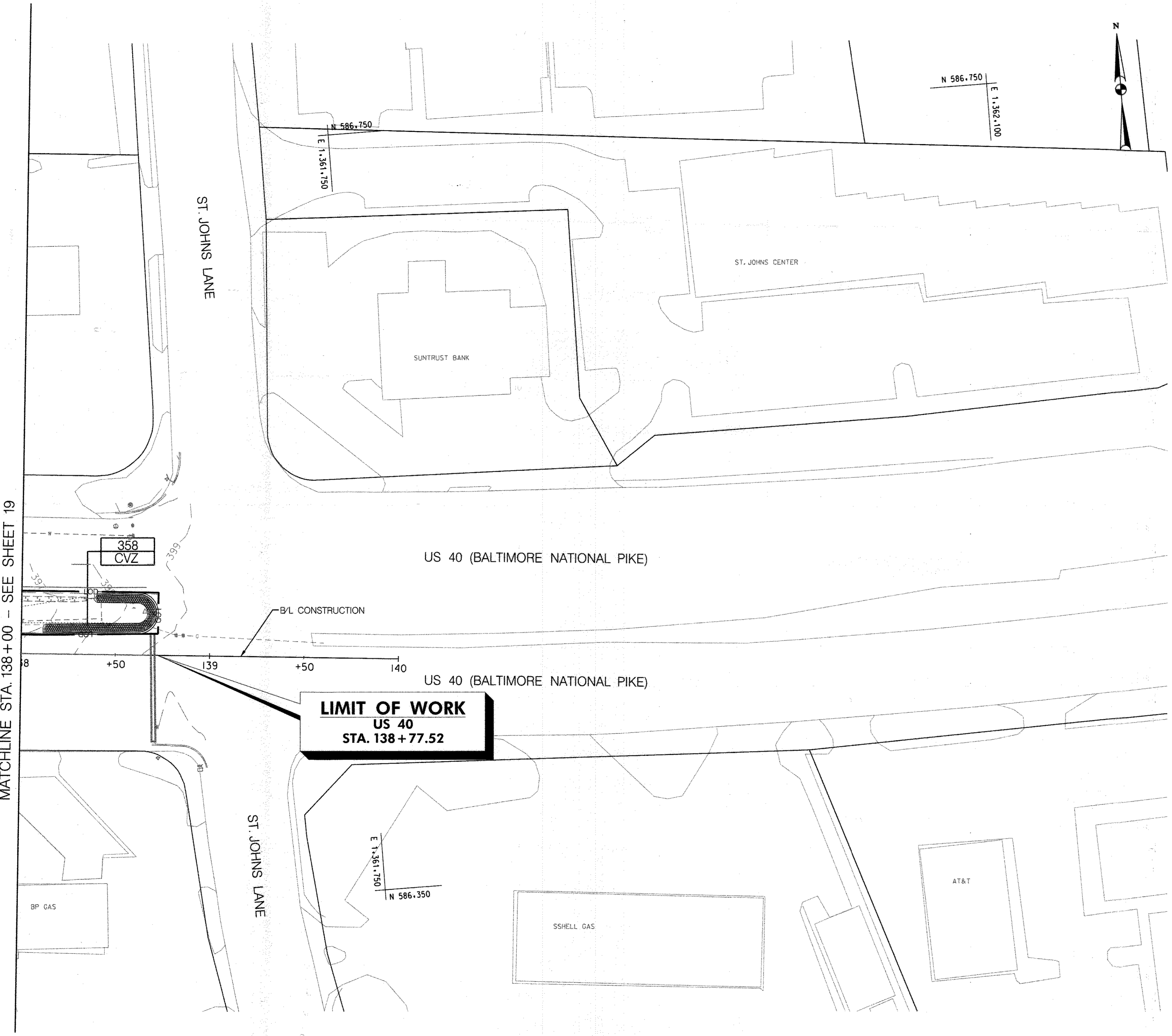
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ORN: RLL				
CHK: DTM				
DATE: 03/16	BY NO.	REVISION	DATE	

LANDSCAPE PLAN  
 SCALE MAP NO. N/A BLOCK NO.

US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION  
 2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1"=30'  
 SHEET 19 OF 21

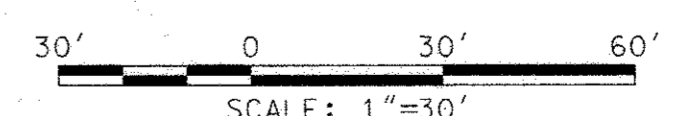
MATCHLINE STA. 138+00 - SEE SHEET 19



PLANT SCHEDULE LD-05							
KEY	TOTAL QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	REMARKS
		PERENNIALS					
CVZ	358	COREOPSIS VERTICILLATA 'ZAGREB'	ZAGREB WHORLED TICKSEED	1 GAL.	CONT.	12' O.C.	MATURE HEIGHT - 12-18"

**PROFESSIONAL CERTIFICATION**  
 "I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2018."

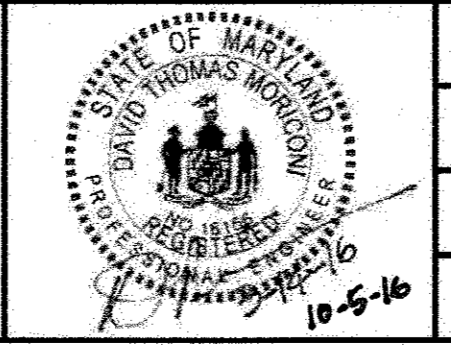
- LEGEND:**
- PROPOSED ORNAMENTAL GRASS
  - PROPOSED PERENNIALS



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
 HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* 11/9/16  
 Director of Planning and Zoning: *[Signature]* 11-7-16  
 Chief, Bureau of Highways: *[Signature]*  
 Chief, Bureau of Engineering: *[Signature]* 11/16

PREPARED BY  
**URS**  
 4 NORTH PARK DRIVE  
 HART VALLEY, MARYLAND  
 TEL: (410) 785-7220



DES: RLL			
ORN: RLL			
CHK: DTM			
DATE: 03/16	BY NO.	REVISION	DATE

**LANDSCAPE PLAN**

SCALE MAP NO. N/A BLOCK NO.

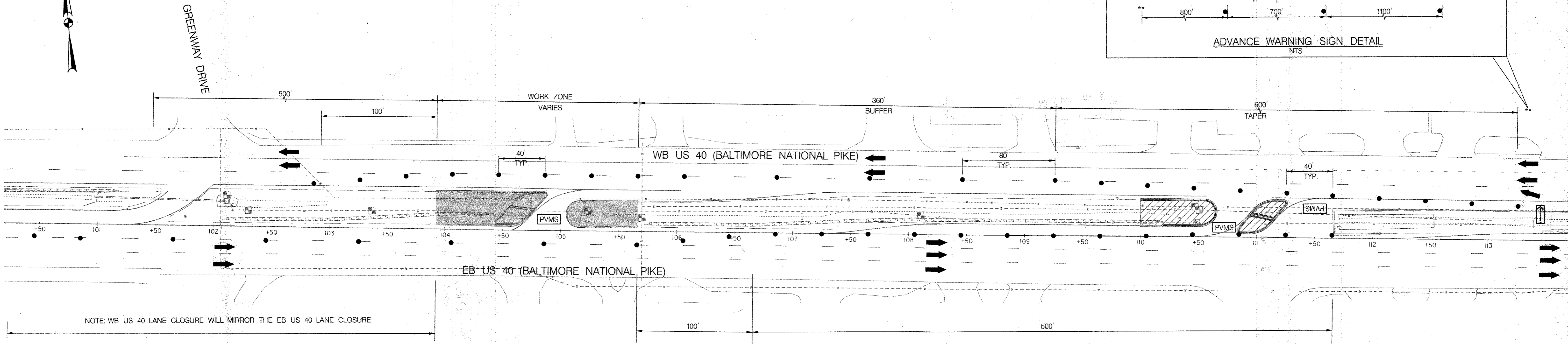
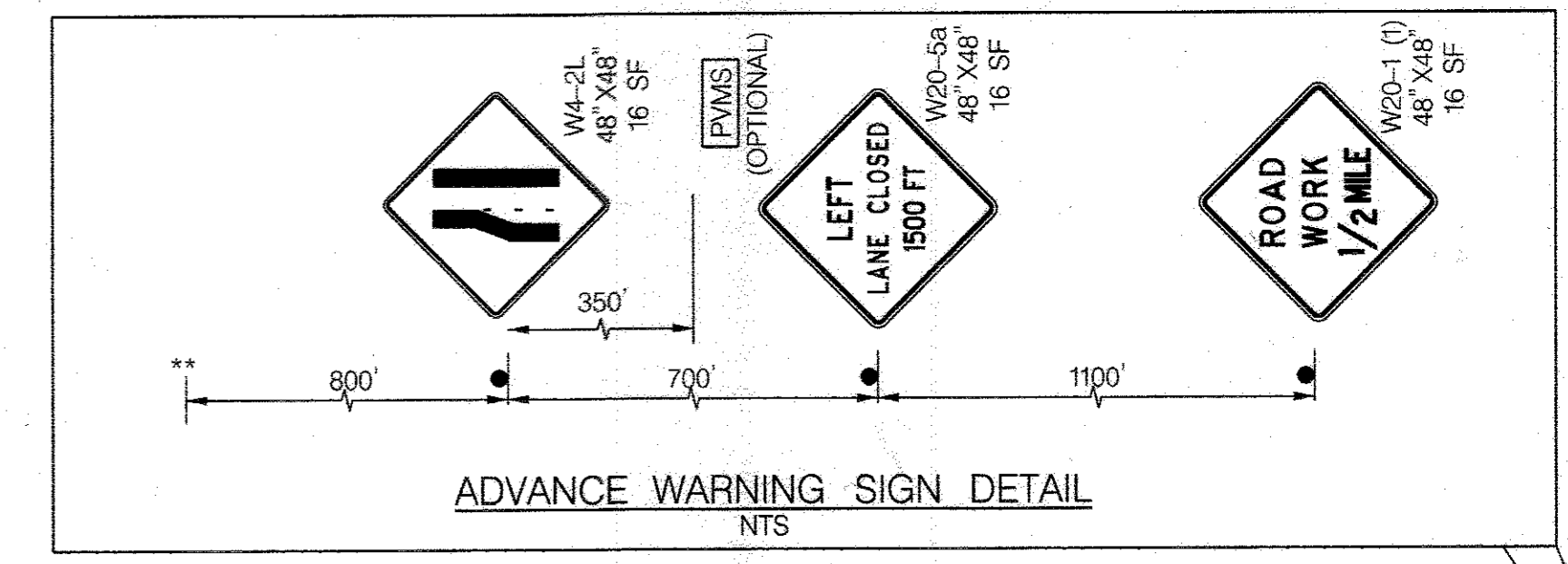
**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

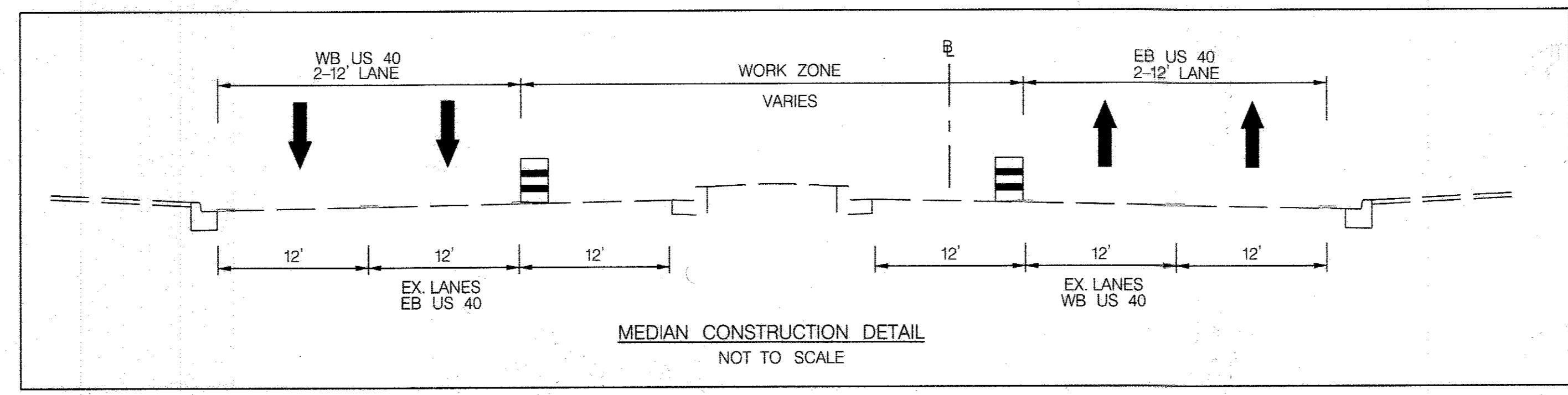
SCALE 1"=30'  
 SHEET 20 OF 21

LIP 20298

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TYPICAL ADVANCE WARNING SIGN DETAIL  
NOT TO SCALE



MEDIAN CONSTRUCTION DETAIL  
NOT TO SCALE

- LEGEND**
- CHANNELIZING DEVICE
  - PROPOSED SIGN AND SUPPORT
  - ← TRAFFIC LANE AND DIRECTION OF FLOW
  - CURRENT WORK AREA
  - ▨ PREVIOUS OR FUTURE WORK AREA
  - ◇ ROAD WORK AHEAD TEMPORARY SIGN
  - ARROW PANEL
  - PVMS PORTABLE VARIABLE MESSAGE SIGN

**GENERAL NOTES:**

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY, INSTALL & MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR THE DURATION OF THE CONTRACT.
2. ALL TRAFFIC CONTROL DEVICES AND LANE CLOSURES MUST ADHERE TO THE CURRENT EDITION OF THE MARYLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MD MUT.C.D.) AND MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION TEMPORARY TRAFFIC CONTROL STRUCTURES.
3. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN AT A MINIMUM THREE (3) 11 FOOT TRAVEL LANES ALONG US 40 WB.
4. NO LANE CLOSURES OR DISRUPTION OF TRAFFIC SHALL BE ALLOWED BETWEEN THE HOURS OF 6 AM - 10 AM & 3 PM - 7 PM WEEKDAYS. REFER TO THE CONTRACT SPECIAL PROVISIONS FOR ADDITIONAL CONSTRUCTION AND LANE CLOSURE RESTRICTIONS.

5. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND SHA DISTRICT TRAFFIC ENGINEER IN MAINTAINING VEHICULAR ACCESS FOR COMMERCIAL AND PRIVATE PROPERTIES DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL USE STAGED CONSTRUCTION TO COMPLETE THIS WORK DURING A STAGE. THE CONTRACTOR SHALL SET UP ONE WORK ZONE AT A TIME LIMITED TO 250' TO EXCEED THIS LIMIT THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE ENGINEER. AT THE COMPLETION OF ONE WORK ZONE, THE CONTRACTOR SHALL BEGIN THE STAGING OF THE NEXT WORK ZONE.
7. PORTABLE VARIABLE MESSAGE SIGNS (PVMS) SHALL BE INSTALLED IN MEDIAN CROSSOVERS CLOSED DURING CONSTRUCTION. PVMS MESSAGE DISPLAY SHALL DIRECT TRAFFIC TO THE NEXT AVAILABLE CROSSOVER. EACH MESSAGE SHALL BE APPROVED BY THE STATE HIGHWAY ADMINISTRATION.
8. WORK ZONE MAY INCLUDE CURB WORK AND MEDIAN WORK CONCURRENTLY.

**SEQUENCE OF CONSTRUCTION:**

1. PLACE ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS TO CLOSE THE LEFT THRU LANE OF US-40 EB & WB. (SEE TYPICAL ADVANCE WARNING SIGNS DETAIL AND MEDIAN CONSTRUCTION DETAIL)
2. CONSTRUCT PROPOSED MEDIAN SEGMENTS DURING NON PEAK HOURS USING STAGED CONSTRUCTION.

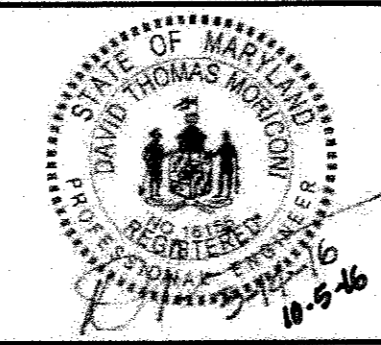
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 16166, Expiration Date: 2-28-18

**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* 11/7/16  
Director of Planning and Zoning: *[Signature]* 11/7/16

Chief, Bureau of Highways: *[Signature]*  
Chief, Bureau of Engineering: *[Signature]*

PREPARED BY  
**URS**  
4 NORTH PARK DRIVE  
HUNT VALLEY, MARYLAND  
TEL: (410) 785-7220



DES: MDP			
DRN: LCY			
CHK: KJS			
DATE: 03/16	BY	NO.	REVISION

**MAINTENANCE OF TRAFFIC**

SCALE MAP NO. N/A BLOCK NO.

**US ROUTE 40 STREETSCAPE MASTER PLAN IMPLEMENTATION**

2ND ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE: NTS  
SHEET 21 OF 21