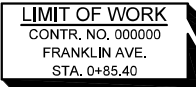


INDEX OF SHEETS		
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3	11*01	TYPICAL SECTIONS
4-9	E6*01 TO E6*06	EXISTING CONDITION AND DEMOLITION PLAN
10	G6*01	GEOMETRIC LAYOUT
11-13	G6*02 TO G6*04	INTERSECTION DETAILS
14	G6*05	CURB EXTENSION DETAILS
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56-63	SWM*01 TO SWM*08	BMP LAYOUT
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77-84	LD*01 TO LD*08	LANDSCAPE PLAN
85-107	XS*01 TO XS*23	CROSS SECTIONS
108	S6*01	SOL BORING LOGS
109	S6*01	SUMMARY OF QUANTITIES

TREE CANOPY REQUIREMENTS TABLE To be completed by the consultant and returned to the Assistant Controller / Government Management plan as part of projects.			
Exempt: Yes ☐ No ☒ If exempt under Section 55-5 of the Code, please check the applicable exemption category below.			
Total Property Area NA / ROW square feet		Total Disturbed Area 87,120 square feet	
Shade Trees Required 33		Shade Trees Proposed to be Planted 0 - entire project under overhead lines	
Fee in Lieu (Trees Required – Trees Planted) x \$250		\$ 8,250	
Required Number of Shade Trees			
Area (sq. ft.) of the Limits of Disturbance		Number of Shade Trees Required	
FROM TO			
1 6,000		3	
6,001 8,000		6	
8,001 12,000		9	
12,001 14,000		12	
14,001 40,000		15	
If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula: (Number of Square Feet in Limits of Disturbance + 40,000) x 15			
EXEMPTION CATEGORIES:			
55-5(a) any activity that is subject to Article 5 of the Chapter 250; or 55-5(b) any governmental project or activity; or 55-5(c) any activity as approved exemption from Article 5 of Chapter 250; or 55-5(d) any activity conducted by the County Parks Department; or 55-5(e) utility or emergency maintenance of an existing sewerage management facility, including an existing access manhole, if the person performing the		maintenance has obtained all required permits; 55-5(f) any stream restoration project; if the person performing the work has obtained all necessary permits; 55-5(g) setting or clearing any lot or home to comply with applicable provisions of any federal, state, or local law governing safety of dams; 55-5(h) Other: Specify per Section 55-5 of the Code.	



LIMIT OF WORK
CONTR. NO. 000000
FRANKLIN AVE.
STA. 46+09.40

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT, WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DATE:

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "1984 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-80, AND MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED AUGUST 1988.

DATE: _____

WE HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO XXXX CUBIC YARDS OF EXCAVATION, XXX CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXX,XXX SQUARE FEET OR 3.33 ACRES.

DATE:

THE FOLLOWING MONTGOMERY COUNTY STANDARDS ARE REQUIRED FOR THIS PROJECT:

- MC-102.01 - 10" MIN. VENTILATION CONCRETE CURB AND GUTTER - TYPE A
- MC-101.01 - 10" MIN. VENTILATION CONCRETE CURB AND GUTTER - TYPE C
- MC-102.01 - DEPRESSION CURB ENTRANCE
- MC-110.01 - RESIDENTIAL SIDEWALK
- MC-102.01 - RESIDENTIAL DRIVEWAY RAMP
- MC-301.01 - RESIDENTIAL DRIVEWAY
- MC-301.04 - RESIDENTIAL DRIVEWAY LIMIT WIDTH
- MC-301.05 - RESIDENTIAL DRIVEWAY WITH CURB RADIUS
- MC-501.01 - INLET
- MC-502.01 - INLET
- MC-503.01 - REVERSE INLET
- MC-510.01 - "A" MANHOLE
- MC-515.01 - "B" MANHOLE

THE MOST CURRENT VERSION OF THESE STANDARDS CAN BE ACCESED AT

<https://www.montgomerycountymd.gov/dot-the-common/standards.shtml>

THE FOLLOWING MARYLAND STATE HIGHWAY DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARDS (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) ARE REQUIRED FOR THE PROJECT:

- MD-354.01 - STANDARD TYPE C ENDWALL
- MD-374.08 - TRIPLE WIRE INLET
- MD-374.51 - 12" SQUARE AND RECTANGULAR COG INLETS 5' 10" 15' & 20'
- MD-374.68 - PRECAST OR CAST-IN-PLACE COG / GOS OPENING FOR 6" CURB OR 8" OR 10" ONLY
- MD-376.11 - 12" SINGLE OR DOUBLE OPENING TYPE K INLET OPENED RAMP
- MD-570.1 - REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES
- MD-580.01 - STANDARD ENTRANCE
- MD-580.03 - STANDARD CURB OPENING DETAILS
- MD-585.11 - SIDEWALK RAMP PERPENDICULAR
- MD-585.12 - SIDEWALK RAMP PARALLEL
- MD-585.40 - DETECTABLE WARNING SURFACES

FOR ALL SHD STANDARDS, REFER TO THE PLANS. THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION, THE BOOK OF STANDARDS CAN BE ACCESSSED AT <http://www.maryland.gov/businessandcommerce/StateSpecs/docsManualSHDPublicationsandOnlineBookofStandardsIndex.aspx> ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF 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. <u>8799</u>, EXPIRATION DATE: <u>10-04-2024</u>.
---	---



**Engineers, Architects
Development Consultants**
15824 Shady Grove Road, Rockville, MD, 20850
Phone: 301-993-9839 Fax: 301-940-7174
www.sheladia.com

						MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND
						RECOMMENDED FOR APPROVAL <i>Daniel M. Slouka</i> Chief Design Section APPROVED: _____ City & County Transportation Director
						March 27, 2023 DATE
NOL.	SUBSECTION	DATE	B/L			March 28, 2023 DATE
					Designed by _____ Drawn by _____ Checked by _____	

SCALE : AS SHOWN

GT-01

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, MONTGOMERY COUNTY, AND THE WASHINGTON SUBURBAN SANITARY COMMISSION.
- TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
- WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES, WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1, A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
- ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE, OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
- CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.
- ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- ALL DISTURBED AREAS TO BE SEEDED AND MULCHED UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
- THE CONTRACTOR SHALL CONSTRUCT ALL DRIVEWAY TIE-INS IN-KIND TO THE LIMIT SHOWN ON THE PLANS.

AASHTO — American Association of State Highway
Transportation Officials
ADT — Average Daily Traffic
AHD — Ahead
APPROX — Approximate
B or B/I — Baseline
BK — Back Book
BIT — Bituminous
B.C. — Bituminous Concrete
B.M. — Bench Mark
BOT — Bottom
C.C. — Center of Curve
CAP — Corrugated Aluminum Pipe
CAPA — Corrugated Aluminum Pipe Arch
CATV — Cable Television
C.B.R. — California Bearing Ratio
C/L or C/L — Centerline
CL — Chainlink Fence
CLF — Chainlink Fence
CMP — Corrugated Metal Pipe
C.O. — Cleanout
COMB — Combination
CONC — Concrete
CONSTR — Construction
COR — Corner
CORR — Corrosion
CPPS — Corrugated Polyethylene Pipe - Type 'S'
CSP — Corrugated Steel Pipe - Aluminum Type 2
CSPA — Corrugated Steel Pipe Arch -
Aluminized Type 2
C — Cut
DC — Degree of Curve
D.H.V. — Design Hourly Volume
D.I. — Drop Inlet
DIA — Diameter
D.O. — Double Opening
E — East
E — Electric
E — External Distance
EA — Each
EB — Eastbound
ELEV — Elevation
ES — End Section
EX or EXIST — Existing
FT — Feet
F — Fill
FL — Flowline
F.B.D. — Flat bottom Ditch
F.H. — Fire Hydrant
F.V.D. — Forward
G. — Gas
G.V. — Gas Valve
H.B. — Handbox
HOPE — High Density Polyethylene

ABBREVIATIONS

HDWL — Headwall
HERCP — Horizontal Elliptical Reinforced
Concrete Pipe
HP — High point
IN — Inch
I.S.T. — Inlet Sediment Trap
INV. — Invert
J.V. — Junction Box
K — K Inlet
L — Length
LF — Linear Feet
LL — Liquid Limit
LP — Low Point
L.P. — Light Pole
LT — Left
MAC — Macadam
M.C. — Moisture Content
MAX — Maximum
M.D.D. — Maximum Dry Content
MOD — Modified
MIN — Minimum
N — North
NB — Northbound
NE — Northeast
N.P. — Non-Plastic
O.C. — On Center
OHE — Overhead Electric
O.M. — Optimum Moisture
PAVT. — Pavement
P.C. — Point of Curvature
P.C.C. — Point of Compound Curvature
P/C — Point of Crown
PGE — Profile Grade Elevation
P.G.E. — Profile Ground Elevation
P.G.L. — Profile Grade Line
PGL — Profile Ground Line
P/R — Point of Rotation
P.I. — Plasticity Index
PI — Point of Intersection
POC — Point On Curve
POT — Point of Tangent
PPWP — Polyvinyl Chloride Profile Wall Pipe
PROP — Proposed
PRC — Point of Reverse Curve
PT — Point
P.T. — Point of Tangency
P.V.C. — Point of Vertical Curve
PVC — Polyvinyl Chloride
P.V.I. — Point of Vertical Intersection
P.V.R.C. — Point of Vertical Reverse Curve
P.V.T. — Point of Vertical Tangency
R — Radius
R.F. — Rock Fragments
RT — Right

RW or R/W — Right of Way
RCP — Reinforced Concrete Pipe
RCPP — Reinforced Concrete Pressure
R.Q.D. — Rock Quality Designation
R.M. — Rootman
S — South
SAN — Sanitary Sewer
SB or S/B — Southbound
S.D. — Storm Drain
S.D.D. — Surface Drain
S/E — Super Elevation
SF — Square Feet
SHT — Sheet
SPP — Structural Steel Plate Pipe
SPPA — Structural Steel Plate Pipe Arch
S.P.T. — Standard Penetration Testing
SRP — Steel Spiral Rib Pipe -
Aluminized Type 2
SRPA — Steel Spiral Rib Pipe Arch -
Aluminized Type 2
SSD — Stopping Sight Distance
SSF — Super Silt Fence
STD — Standard
STA — Station
SO — Single Opening
SY — Square Yards
SWM — Stormwater Management
T — Tangent
T — Telephone
T.C. — Top of Cover
T.G. — Top of Grate
T OR TL — Traverse Line
T.M. — Top of Manhole
TRAV — Traverse
TS — Temporary Swale
T.S. — Top of Slab
T.S. — Topsoil
TYP — Typical
U.D. — Underdrain
U.G. — Underground
U.P. — Utility Pole
USDA — United States Department
of Agriculture
VCL — Vertical Clearance
V.C.L. — Vertical Curve Length
W — Water
W — West
WB — Westbound
WB — Wetland Buffer
WM — Water Meter
W.S. — Wrapped Steel
WUS — Water of the United States
W.V. — Water Valve

CONVENTIONAL SYMBOLS

EXISTING FEATURES

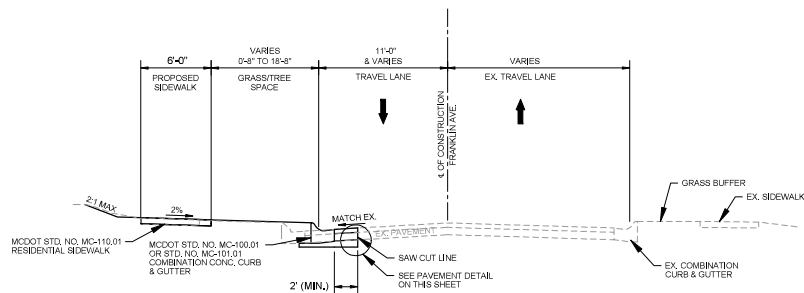
RIGHT OF WAY LINE (ROW)	---	---
PROPERTY LINE	---	---
EDGE OF ROADWAY PAVING	---	---
CURB OR CURB AND GUTTER	---	---
EXISTING GROUND CONTOURS (5')	---	---
EXISTING GROUND CONTOURS (1')	---	---
WOOD FENCE	---	---
WIRE FENCE	---	---
FIRE HYDRANT	---	---
EDGE OF WOODED AREAS	---	---
TREE (FREE STANDING)	---	---
SIGN	---	---
MAILBOX	---	---
UTILITY POLE	---	---
GAS VALVE	---	---
WATER VALVE	---	---
STORM DRAIN	---	---
SANITARY	---	---
WATER	---	---
GAS	---	---

PROPOSED FEATURES

CONSTRUCTION	---	---
CURB & GUTTER	---	---
TRAVERSE POINT	---	---
DRIVEWAY TIE-IN	---	---
PAVEMENT REMOVAL	---	---
SIDEWALK	---	---
A.D.A. RAMP W/ DETECTABLE WARNING SURFACE	---	---
APPROXIMATE LIMITS OF CUT AND/OR FILL	---	---
LIMIT OF DISTURBANCE	---	---
STORM DRAIN	---	---

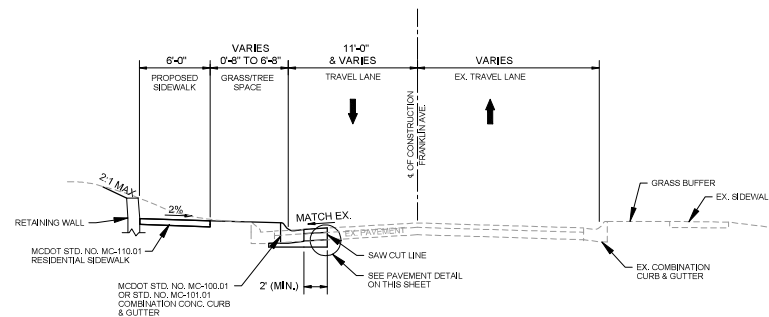
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		FRANKLIN AVENUE SIDEWALK GENERAL NOTES, ABBREVIATION AND CONVENTIONAL SYMBOLS	
				RECOMMENDED FOR APPROVAL		SCALE: N/A	
				Chief Design Section		Date	
				APPROVED		Date	
				Chief, Division of Transportation		Date	
				Designed by: _____		Drawn by: _____	
				Checked by: _____		Project No.: _____	
						of _____	
						GN - 01	





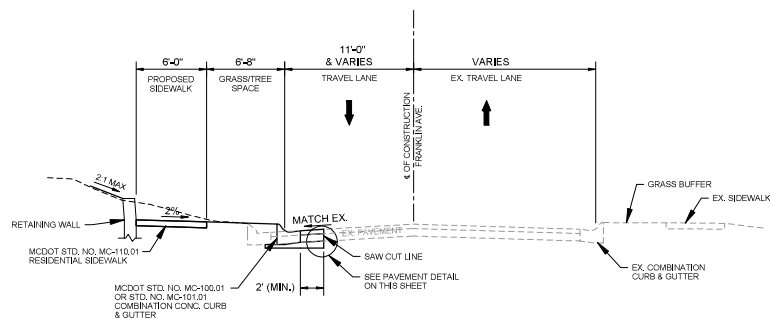
TYPICAL SECTION - SIDEWALK WITH DIRECT TIE-IN

STA. 0+85.40 TO STA. 16+82.70
STA. 19+45.71 TO STA. 39+18.64
STA. 40+69.72 TO STA. 46+09.40
NOT TO SCALE



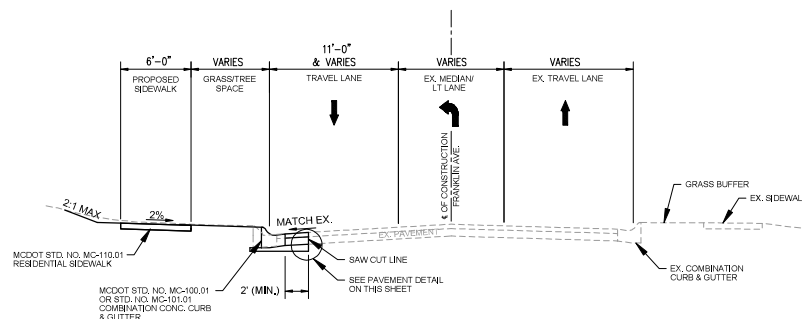
TYPICAL SECTION - ADJACENT SIDEWALK WITH RETAINING WALL

STA. 16+82.70 TO STA. 19+45.71
NOT TO SCALE



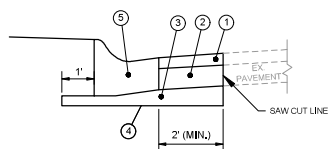
TYPICAL SECTION - ADJACENT SIDEWALK AND RETAINING WALL

STA. 39+18.64 TO STA. 40+69.72
NOT TO SCALE



TYPICAL SECTION - MEDIAN / LEFT TURNING LANE

AT INTERSECTIONS
NOT TO SCALE



FULL DEPTH PAVING SECTION

NOT TO SCALE

LEGEND

- 1 3' BITUMINOUS CONCRETE SURFACE COURSE IN 2-1 1/2 LAYERS
- 2 5' BITUMINOUS CONCRETE BASE COURSE
- 3 6' GRADED AGGREGATE BASE COURSE
- 4 COMPACTED SUBBASE
- 5 MCDOT STANDARD NO. MC-100.01 OR STANDARD NO. MC-101.01 COMBINATION CONCRETE CURB AND GUTTER



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief Design Section	
APPROVED	
Chief Division of Transportation Engineering	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

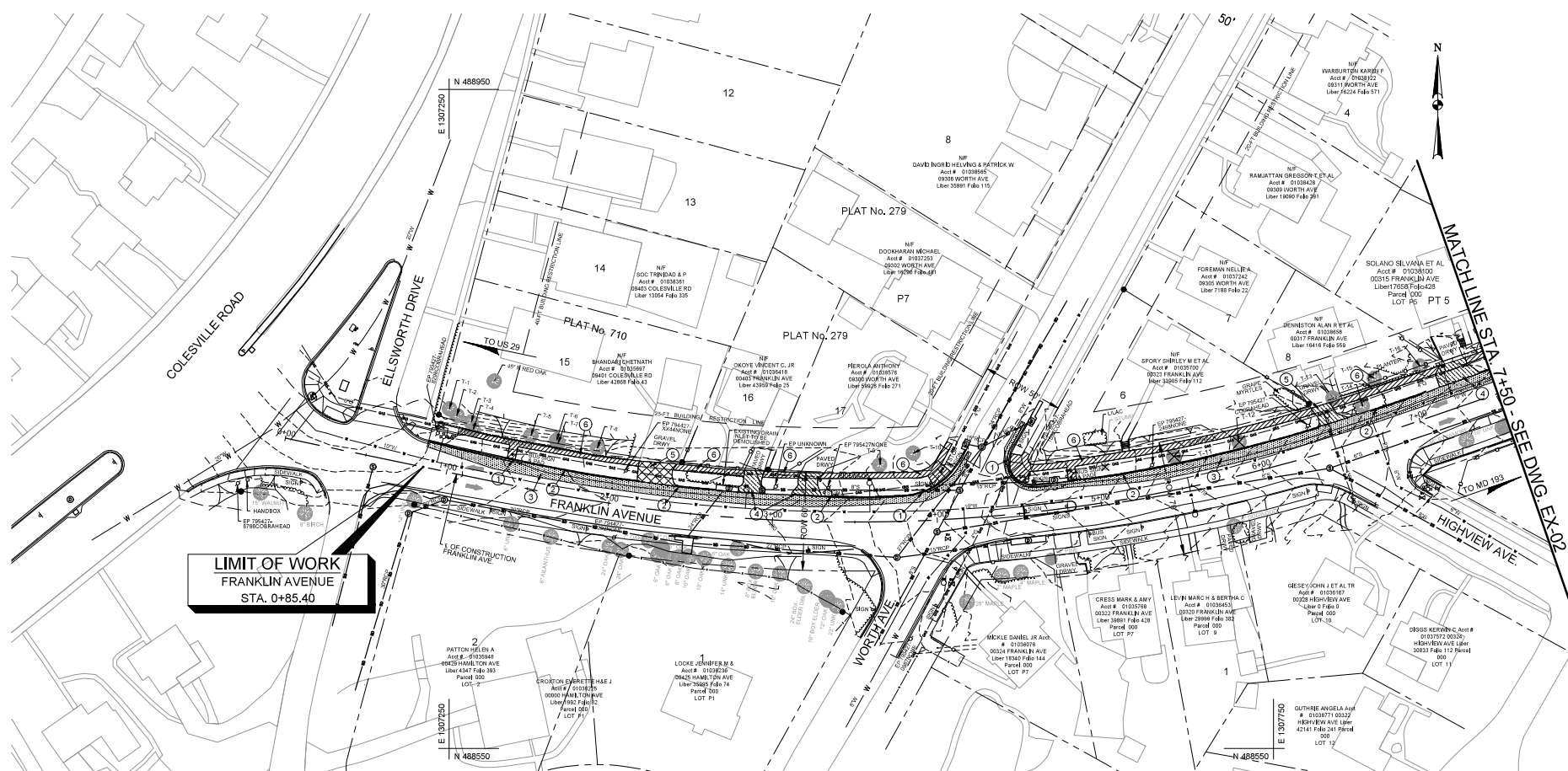
MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management	
Reviewed	
Approved	

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT	
Administrative Requirements	
Reviewed	
Approved	

**FRANKLIN AVENUE
SIDEWALK
TYPICAL SECTIONS**

SCALE: AS SHOWN

TS-01

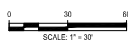


LIMIT OF WORK
FRANKLIN AVENUE
STA. 0+85.40

DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	①
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	②
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	③
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO NEAREST JOINT	④
	REMOVE EXISTING GRAVEL	⑤
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	⑥
	REMOVE EXISTING WALL	⑦
	REMOVE EXISTING FENCE AND TREE LINE	⑧
	EXISTING TREE (TO BE REMOVED)	

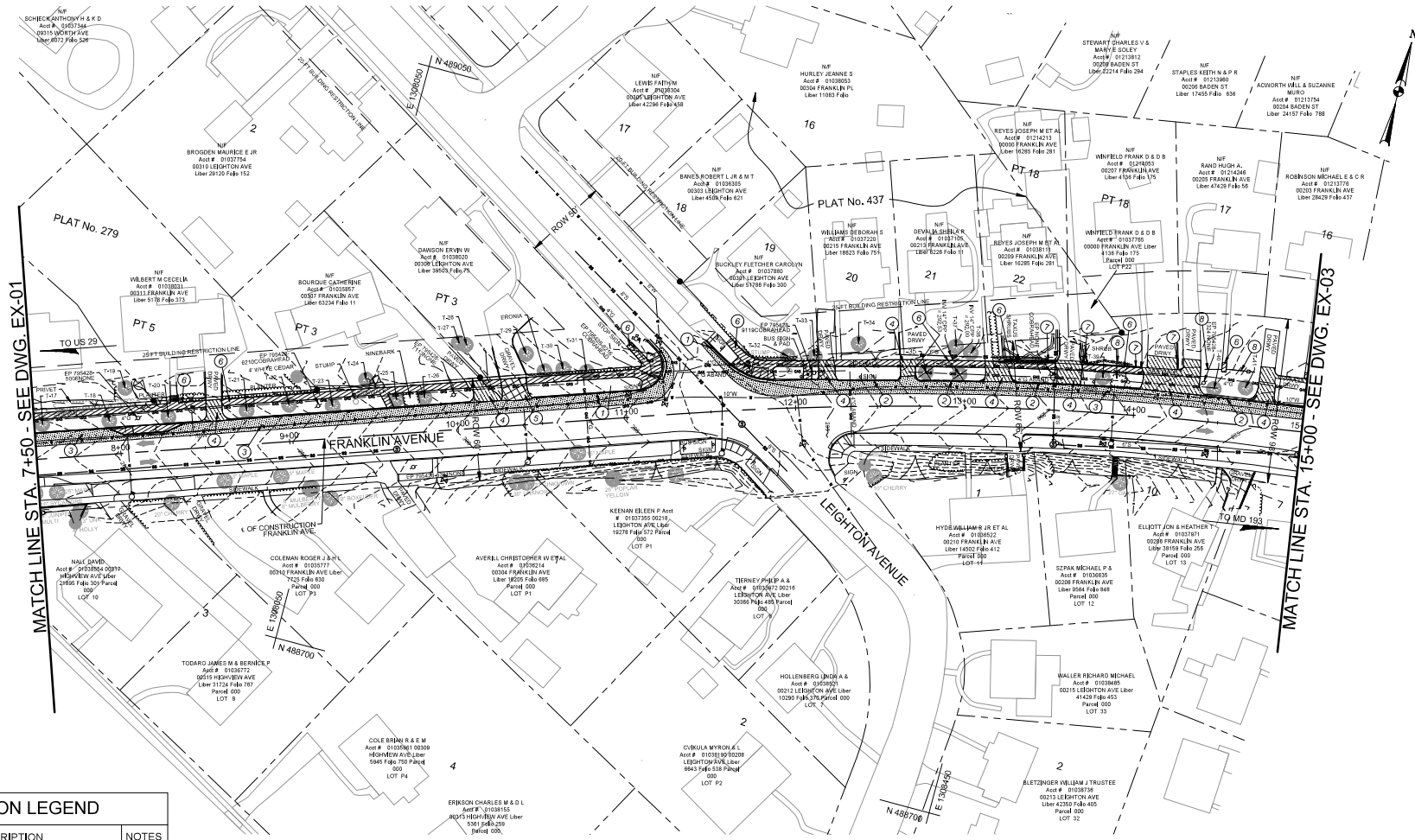
REFERENCE NOTE:

1. FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE., SEE DWG. EX-06.



Engineers, Architects
Development Consultants
1815 Sandy Grove Road, Rockville, MD, 20850
Phone: (301) 440-0000 Fax: (301) 440-1174
www.sheladin.com

NO. _____ REVISION _____ DATE _____ BY _____				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL Chief, Design Section _____ Date _____ APPROVED _____ Date _____ Chief, Division of Transportation _____ Date _____				FRANKLIN AVENUE SIDEWALK EXISTING CONDITION AND DEMOLITION PLAN STA. 0+00 TO STA. 7+50 SCALE: AS SHOWN	
DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____				SEE TITLE SHEET FOR SIGNATURES EX-01	



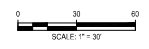
MATCH LINE STA. 7+50 - SEE DWG. EX-01

MATCH LINE STA. 15+00 - SEE DWG. EX-03

DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	(1)
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	(2)
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	(3)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO NEAREST JOINT	(4)
	REMOVE EXISTING GRAVEL	(5)
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	(6)
	SAWCUT AND REMOVE EXISTING WALL	(7)
	REMOVE EXISTING FENCE AND TREE LINE	(8)
	EXISTING TREE (TO BE REMOVED)	

REFERENCE NOTE:

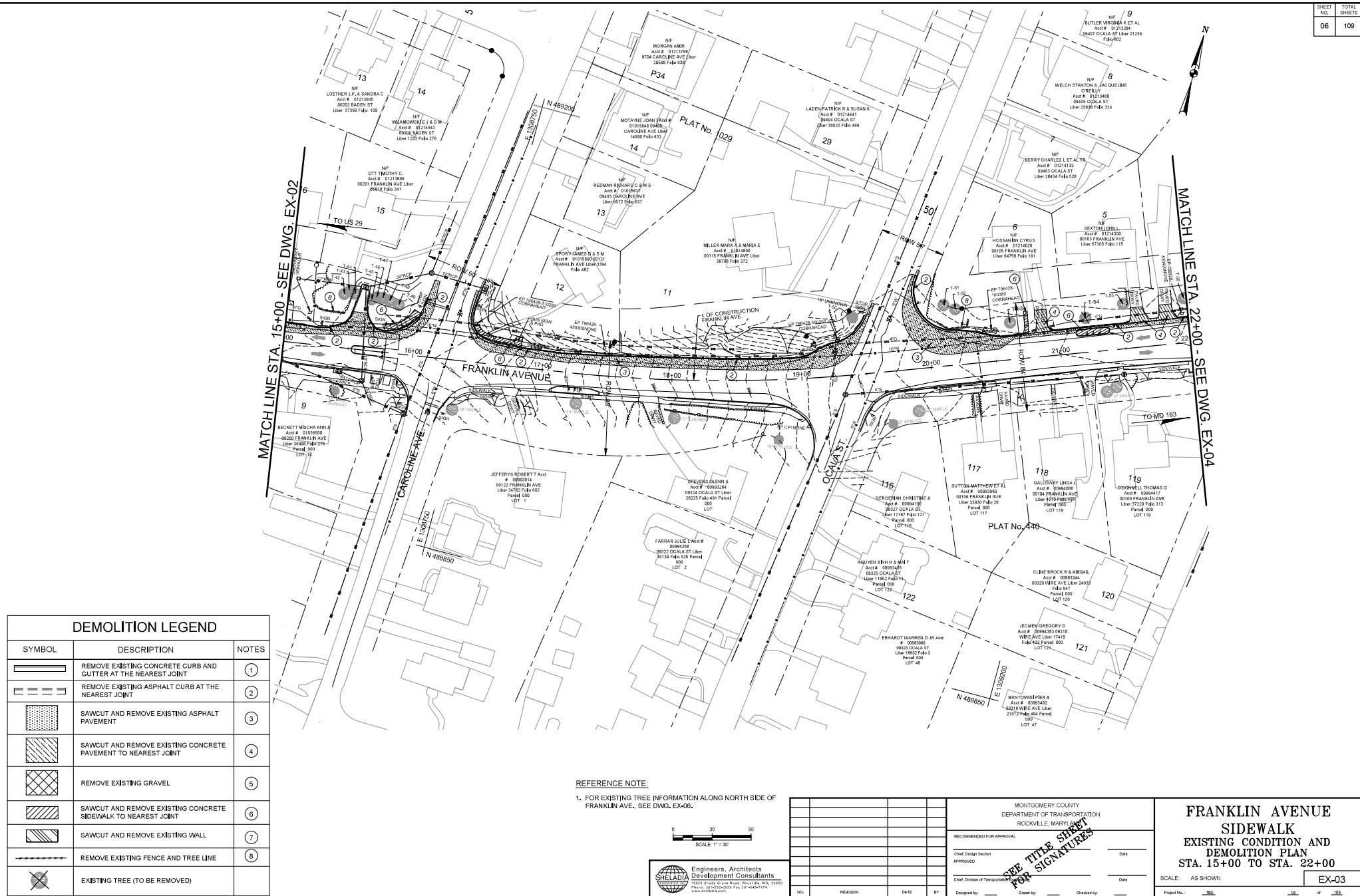
1. FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE, SEE DWG. EX-06.



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 Phone: (301) 440-0000 Fax: (301) 440-1714
 www.sheladine.com

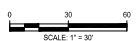
NO. _____ REVISION _____ DATE _____ BY _____				MONTEGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL _____ Date _____ CHIEF, Design Section				SEE TITLE SHEET FOR SIGNATURES	
APPROVED _____ Date _____ CHIEF, Division of Transportation				SCALE: AS SHOWN	
DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____				EX-02	

FRANKLIN AVENUE
SIDEWALK
EXISTING CONDITION AND
DEMOLITION PLAN
STA. 7+50 TO STA. 15+00



DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	(1)
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	(2)
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	(3)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO NEAREST JOINT	(4)
	REMOVE EXISTING GRAVEL	(5)
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	(6)
	SAWCUT AND REMOVE EXISTING WALL	(7)
	REMOVE EXISTING FENCE AND TREE LINE	(8)
	EXISTING TREE (TO BE REMOVED)	

REFERENCE NOTE:
1. FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE., SEE DWG. EX-06.



**Engineers, Architects
Development Consultants**
1815 South County Road, Rockville, MD, 20850
Phone: 301-440-1234 Fax: 301-440-1234
www.sheladine.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL _____ Date _____

Chief, Design Section _____

APPROVED _____ Date _____

Chief, Division of Transportation _____

Designed by: _____ Drawn by: _____ Checked by: _____

**FRANKLIN AVENUE
SIDEWALK
EXISTING CONDITION AND
DEMOLITION PLAN
STA. 15+00 TO STA. 22+00**

SCALE: AS SHOWN

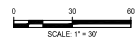
Project No.: _____ of _____

EX-03



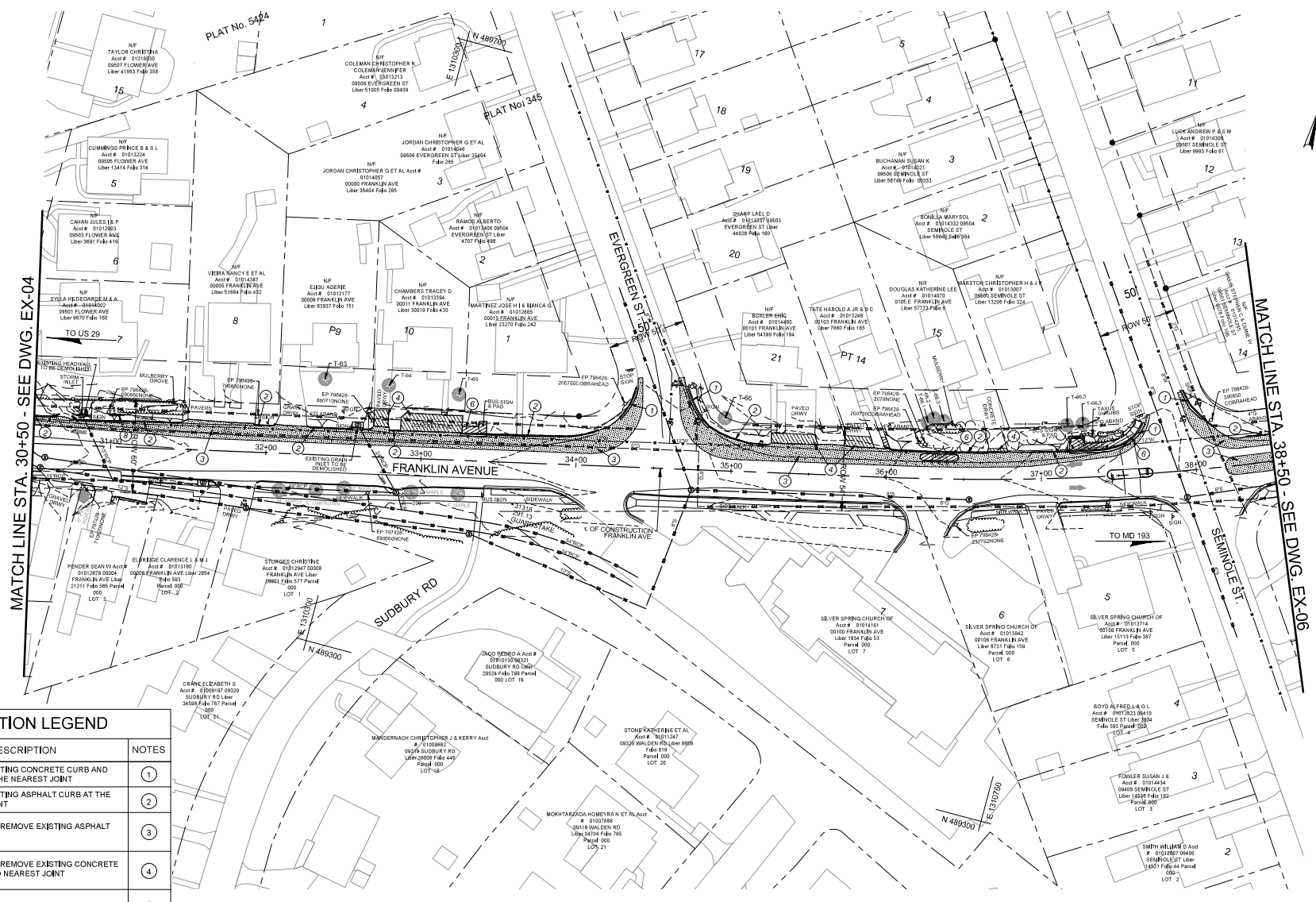
DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	(1)
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	(2)
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	(3)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO NEAREST JOINT	(4)
	REMOVE EXISTING GRAVEL	(5)
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	(6)
	SAWCUT AND REMOVE EXISTING WALL	(7)
	REMOVE EXISTING FENCE AND TREE LINE	(8)
	EXISTING TREE (TO BE REMOVED)	

REFERENCE NOTE:
 1. FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE., SEE DWG. EX-06.



**Engineers, Architects
Development Consultants**
 1815 Sandy Spring Road, Rockville, MD, 20850
 Phone: (301) 330-1000 Fax: (301) 460-1174
 www.sheladip.com

NO. _____ REVISION _____ DATE _____ BY _____				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL _____ Date _____ CHIEF DESIGN SECTION APPROVED _____ Date _____ CHIEF DIVISION OF TRANSPORTATION				SEE TITLE SHEET FOR SIGNATURES	
PROJECT NO. _____				SCALE: AS SHOWN	
EX-04				TOTAL SHEETS: 109	

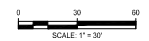


MATCH LINE STA. 30+50 - SEE DWG. EX-04

MATCH LINE STA. 38+50 - SEE DWG. EX-06

DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	(1)
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	(2)
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	(3)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO NEAREST JOINT	(4)
	REMOVE EXISTING GRAVEL	(5)
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	(6)
	SAWCUT AND REMOVE EXISTING WALL	(7)
	REMOVE EXISTING FENCE AND TREE LINE	(8)
	EXISTING TREE (TO BE REMOVED)	

REFERENCE NOTE:
 1. FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE., SEE DWG. EX-06.



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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL _____ Date _____

Chief, Design Section _____

APPROVED _____

Chief, Division of Transportation _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

FRANKLIN AVENUE

SIDEWALK

EXISTING CONDITION AND
DEMOLITION PLAN
STA. 30+50 TO STA. 38+50

SCALE: AS SHOWN

Project No.: 100 of 109

EX-05

EXISTING TREE INFORMATION			
SYMBOL/NO.	DESCRIPTION	SYMBOL/NO.	DESCRIPTION
- 1	1" RED OAK	T- 21	3" KOLSA DOGWOOD
- 2	2" RED OAK	T- 22	3" AMUR MAPLE
- 3	3" RED OAK	T- 23	1-2" SAND PALM
- 4	4" RED OAK	T- 24	15" CHERRY
- 5	5" RED OAK	T- 25	4" KOLSA DOGWOOD
- 6	6" RED OAK	T- 26	1-2" SAND PALM
- 7	7" RED OAK	T- 27	5-6" AMERICAN ELM
- 8	8" RED OAK	T- 28	4-6" BLACK CHERRY
- 9	9" RED OAK	T- 29	38" TULIP POPLAR
- 10	10" RED OAK	T- 30	DRAD
- 11	11" RED OAK	T- 31	4" AMERICAN DOGWOOD
- 12	12" RED OAK	T- 32	11" AMERICAN ELM
- 13	13" RED OAK	T- 33	14" AMERICAN HOLLY
- 14	14" RED OAK	T- 34	7" DOGWOOD
- 15	15" RED OAK	T- 35	15" SAWTOOTH OAK
- 16	16" RED OAK	T- 36	16" SAWTOOTH OAK
- 17	17" RED OAK	T- 37	15" HOLLY
- 18	18" RED OAK	T- 38	11" X 2 HOLLY
- 19	19" RED OAK	T- 39	2-4" Crape Myrtle
- 20	20" RED OAK	T- 40	16" RED MAPLE
SYMBOL/NO.	DESCRIPTION	SYMBOL/NO.	DESCRIPTION
T- 41	18" RED MAPLE	T- 51	1/4" CHERRY
T- 42	4" EVERGREEN SHRUB	T- 52	34" SOUTHERN RED OAK
T- 43	4" CEDAR	T- 53	42" SYCAMORE
T- 44	8" CEDAR	T- 54	10" BLUE SPRUCE
T- 45	46" SILVER MAPLE	T- 55	10" BLUE SPRUCE
T- 46	18" SILVER MAPLE	T- 56	11" BRADFORD PEAR
T- 47	30" SILVER MAPLE	T- 56.1	9" MULBERRY
T- 48	28" SILVER MAPLE	T- 56.2	9" MULBERRY
T- 49	24" SILVER MAPLE	T- 56.3	6" MULBERRY
T- 50	20" SOUTHERN MAGNOLIA	T- 56.4	8" MULBERRY
T- 51	12" DOGWOOD	T- 56.5	3" REDBUD
T- 52	1" APPLE	T- 57	2" MULBERRY
T- 53	34" RED OAK	T- 58	10" DOGWOOD
T- 54	13" HACKBERRY	T- 59	20" JAPANESE CHERRY
T- 55	24/22" MULBERRY	T- 70	27" SOUTHERN RED OAK
T- 56	2-4" Crape Myrtle	T- 71	2" RED MAPLE
T- 57	7" Crape Myrtle	T- 72	9" KOLSA DOGWOOD
T- 58	2-4" Crape Myrtle	T- 73	13" RED CEDAR
T- 59	16" EASTERN RED CEDAR	T- 74	12" WHITE PINE
T- 60	8" DOGWOOD	T- 75	4" REDBUD



DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	REMOVE EXISTING CONCRETE CURB AND GUTTER AT THE NEAREST JOINT	(1)
	REMOVE EXISTING ASPHALT CURB AT THE NEAREST JOINT	(2)
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	(3)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO NEAREST JOINT	(4)
	REMOVE EXISTING GRAVEL	(5)
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	(6)
	SAWCUT AND REMOVE EXISTING WALL	(7)
	REMOVE EXISTING FENCE AND TREE LINE	(8)
	EXISTING TREE (TO BE REMOVED)	

REFERENCE NOTE:
1. FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE, SEE TABLE ON THIS SHEET.

SCALE: 1" = 30'

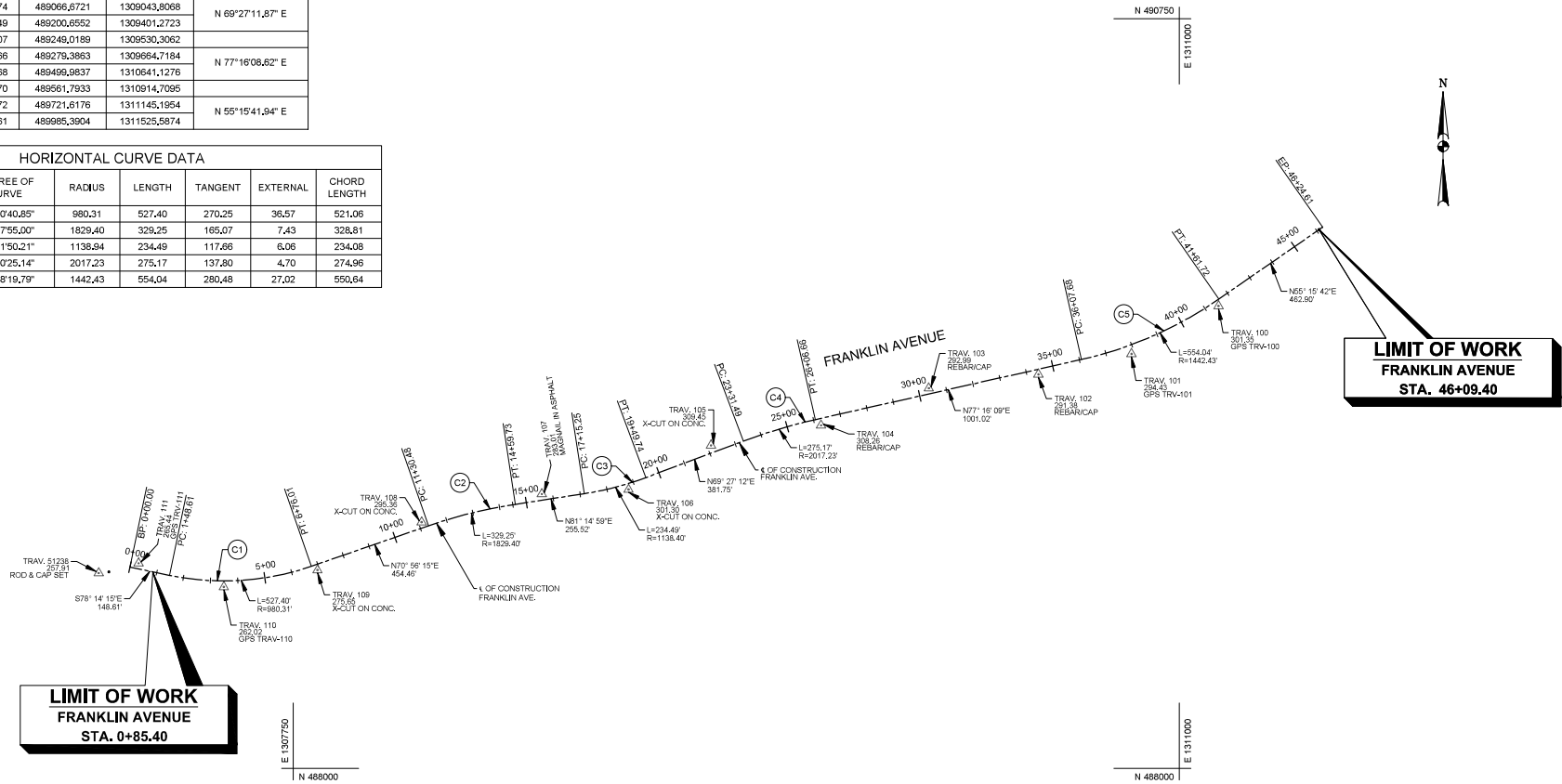
Engineers, Architects
Development Consultants
1015 South County Road, Rockville, MD 20850
(301) 440-1000 Fax: (301) 440-1010
www.sheladine.com

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief, Design Section	_____ Date	SEE TITLE SHEET FOR SIGNATURES	
Chief, Division of Transportation	_____ Date		
Designed by	_____ Checked by		
SCALE: AS SHOWN			
PROJECT NO. 1000			

**FRANKLIN AVENUE
SIDEWALK
EXISTING CONDITION AND
DEMOLITION PLAN
STA. 38+50 TO STA. 46+25**

PROJECT COORDINATES					
CURVE NO.	DESCRIPTION	STATION	NORTHING	EASTING	BEARING
C1	POB	0+00.00	488738.2784	1307150.5858	S 78°14'15.22" E
	PC	1+48.61	488707.9829	1307296.0785	
	PI	4+12.31	488652.8914	1307560.6533	
	PT	6+76.01	488741.1542	1307816.0835	
C2	PC	11+30.48	488889.5803	1308245.6249	N 70°56'15.47" E
	PI	12+95.10	488943.4922	1308401.6443	
	PT	14+58.73	488968.6045	1308564.7943	
	PC	17+15.25	489007.4767	1308817.3391	
C3	PI	18+32.49	489025.3785	1308893.6306	N 81°14'58.54" E
	PT	19+49.74	489066.6721	1309043.8068	
	PC	23+31.49	489200.6552	1309401.2723	
	PI	24+69.07	489249.0189	1309530.3062	
C4	PT	26+06.66	489279.3863	1309664.7184	N 77°16'08.62" E
	PC	36+07.68	489499.9837	1310641.1276	
	PI	38+84.70	489561.7933	1310914.7095	
	PT	41+61.72	489721.6176	1311145.1954	
C5	POE	46+24.61	489885.3904	1311525.5874	N 55°15'41.94" E

HORIZONTAL CURVE DATA						
CURVE NO.	DELTA	DEGREE OF CURVE	RADIUS	LENGTH	TANGENT	EXTERNAL CHORD LENGTH
C1	30°49'29.31"	5°50'40.85"	980.31	527.40	270.25	36.57 521.08
C2	10°18'43.07"	3°07'55.00"	1829.40	329.25	185.07	7.43 328.81
C3	11°47'46.67"	5°01'50.21"	1138.84	234.49	117.66	6.06 234.08
C4	7°48'56.75"	2°50'25.14"	2017.23	275.17	137.80	4.70 274.96
C5	22°00'26.88"	3°58'19.79"	1442.43	554.04	280.48	27.02 550.64



Plan view of Leighton Ave and Franklin Avenue. The diagram shows the intersection area with various sidewalk and ramp details. Key features include:

- LEIGHTON AVE.** (Vertical street)
- FRANKLIN AVENUE** (Horizontal street)
- MATCH EXIST SIDEWALK CURB & GUTTER** (Top left)
- MATCH EXIST SIDEWALK CURB & GUTTER** (Middle left)
- SIDEWALK RAMP MC-112-01** (Bottom left)
- SIDEWALK RAMP MD-655.11** (Top right)
- SIDEWALK RAMP MC-112-01** (Middle right)
- EXISTING RAMP** (Bottom right)
- Stationing and Offset Data:**
 - 11+23.41 35.00 LT
 - 11+62.99 24.08 LT
 - 11+89.83 11.00 LT
 - 11+11.42 11.00 LT
 - 12+00
- Curve Data:**
 - R=35
 - R=36
 - R=5
- Other Labels:**
 - 11+00
 - 12+00
 - 11+00

Plan view of Franklin Avenue showing proposed and existing ramps, sidewalks, and street intersections. The diagram includes a north arrow pointing towards the top left. Key features and labels include:

- FRANKLIN AVENUE**: The main horizontal street.
- OCALA ST.**: A street intersecting Franklin Avenue from the top right.
- EXISTING RAMP**: Located at the bottom left, crossing Franklin Avenue.
- PROPOSED RAMP**: Located at the bottom right, crossing Franklin Avenue.
- SIDEWALK RAMP MD-655,11**: Located on the left side of Franklin Avenue.
- SIDEWALK RAMP MD-655,12**: Located on the left side of Franklin Avenue, further north.
- SIDEWALK RAMP MC 112,01**: Located on the right side of Franklin Avenue, near Ocala St.
- MATCH EXIST CURB & GUTTER**: Two locations, one at the top left and one at the top right.
- Stationing and Distances**:
 - 19+00
 - 19+15.51 10,36 LT
 - 19+42.93 28,74 LT
 - 19+87.72 54,50 LT
 - 20+00
 - 20+15.33 12,04 LT
- Other Labels**:
 - DN (Down)
 - UP (Up)
 - MC 112,01



**Engineers, Architects
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1525 Shady Grove Road, Rockville, MD, 20810
Phone: 301-590-3535 Fax: 301-645-7174
www.sheladia.com

FILE: K:\547 MC DOT\T2 Franklin Ave Sidewalk Final Design\07 DESIGN\100% Construction Documents\XREF-100% Comments\11-14-GS-02-05.dwg
DATE: Mar 14, 2023 - 2:53pm

Plan view of Franklin Avenue showing proposed and existing ramps, sidewalks, and street layout. The diagram includes a north arrow pointing towards the top left. Key features include:

- Franklin Avenue:** The main horizontal road, with stationing markers at 25+59.81, 26+00, and 26+27.58.
- Sidewalk Ramps:**
 - MD-655.11:** Located on the left side of Franklin Avenue.
 - MD-655.12:** Located on the left side of Franklin Avenue, adjacent to the MD-655.11 ramp.
 - MC-112.01:** Located on the right side of Franklin Avenue.
- Ramps:**
 - EXISTING RAMP:** Located on the left side of Franklin Avenue, near station 25+59.81.
 - PROPOSED RAMP:** Located on the right side of Franklin Avenue, near station 26+27.58.
- Match Existing Curb & Gutter:** Indicated at the intersection with Saybrook Ave.
- Saybrook Ave.:** A diagonal road intersecting Franklin Avenue from the top right.
- Stationing and Dimensions:**
 - 25+59.81, 11.00 LT
 - 25+67.98, 32.04 LT
 - 26+12.89, 24.46 LT
 - 26+27.58, 11.00 LT
 - 26+00
- Other Labels:**
 - DI:** Designation for the sidewalk ramp.
 - RT 10:** Right of Way line.

Site plan of the intersection of Flower Ave and Franklin Avenue. The plan shows the intersection with various street names, stationing, and callouts for existing and proposed features. Key features include:

- Flowing Aves:** Flower Ave (vertical) and Franklin Avenue (horizontal).
- Intersection Details:**
 - Top Left: MATCH EXIST SIDEWALK, CURB & GUTTER
 - Top Right: MATCH EXIST SIDEWALK, CURB & GUTTER
 - Bottom Left: SIDEWALK RAMP MD-655,12
 - Bottom Right: SIDEWALK RAMP MD-655,12
 - Bottom Left: EXISTING RAMP
 - Bottom Right: EXISTING RAMP
- Stationing and Points:**
 - 29+00 (on Franklin Avenue)
 - 29+11.00 19,78 LT
 - 29+35,19 25,40 LT
 - 29+45,23 36,80 LT
 - 29+89,21 53,26 LT
 - 30+17,85 16,12 LT
- Other Labels:** FLOWER AVE., FRANKLIN AVENUE, and a north arrow pointing towards the top left.

Plan view of Franklin Avenue showing proposed and existing ramps, match points, and street names. The diagram includes a north arrow pointing towards the top left. Key features include:

- Match Existing Curb & Gutter** at the top of the plan.
- Match Existing Curb & Gutter** at the top right of the plan.
- Evergreen St.** running vertically through the center of the plan.
- Franklin Avenue** running horizontally across the middle of the plan.
- Sidewalk Ramp MC-112.01 (TYP.)** located on the left side of Franklin Avenue.
- Sidewalk Ramp MC-112.01** located on the right side of Franklin Avenue.
- Sidewalk Ramp MD-655.11** located on the right side of Franklin Avenue.
- Existing Ramp** located at the bottom left of the plan.
- Proposed Ramp** located at the bottom right of the plan.
- Match points** are indicated by circles with numbers and stationing:
 - 34+8.13 11,00 LT
 - 34+38.13 41,00 LT
 - 34+69.11 40,42 LT
 - 34+99.10 11,00 LT
- Radius** is indicated as **R=30'** for the sidewalk ramps.



**Engineers, Architects
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
Chief, Design Section	_____	Date
APPROVED	_____	
Chief, Division of Transportation	_____	Date
Designed by	Checked by	Checked by

SCALE : AS SHOWN

GS - 03

43+31.24
11.42 LT

43+56.25
41.01 LT

SIDEWALK RAMP
MD 655.11 (TYP.)

43+82.25
46.99 LT

SIDEWALK RAMP
MC-112.01

44+12.25
17.00 LT

FRANKLIN AVENUE

GARWOOD ST.

EXISTING RAMP

EXISTING RAMP

Plan view of a proposed median opening. The opening is elongated with rounded ends, measuring 26'00" in length and 10'5" in width. It features a 4" thick concrete curb and gutter (MC-100.1) on the outer edges and a 4" thick concrete median opening (MC-114.01) in the center. The opening is flanked by 4" thick concrete (MC-110.01, SIM) on both sides. A proposed ramp is shown at the bottom right, and a proposed combined concrete curb & gutter type A (MC-100.1) is shown at the top right. The opening is labeled with a radius of R=2'5".



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MONTGOMERY COUNTY	
DEPARTMENT OF TRANSPORTATION	
ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation	Date

GS - 04

Plan view of the proposed Franklin Avenue bridge structure. The drawing shows the bridge layout with stationing and lane widths. Key labels include: 44+12.25 17.00 LT, 44+30.35 17.00 LT, 44+40.74 11.00 LT, 44+60.74 11.00 LT, and 44+68.53 15.50 LT. A north arrow is located in the upper left corner. The road is labeled 'FRANKLIN AVENUE' and a 'RAMP' is indicated at the bottom.

FILE: K:\5547 MC DOT\T2 Franklin Ave Sidewalk Final Design\07 DESIGN\100% Construction Documents\XREF-100% Comments\11-14-GS-02-05.dwg
DATE: Mar 01, 2023 - 4:27pm

COMBINATION CONCRETE CURB AND GUTTER TYPE A (STD. NO. MC-100.01)		
QUANTITY (LF)	STA. START	STA. END
85.0	0+85.00 LT	1+71.30 LT
29.3	1+82.00 LT	2+11.60 LT
8.1	2+42.20 LT	2+58.50 LT
32.4	3+8007 LT	4+09.86 LT
2.1	4+13.87 LT	4+21.00 LT
24.6	4+47.21 LT	4+60.00 LT
3.9	4+47.58 LT	4+49.00 LT
8.1	4+52.00 LT	4+71.00 LT

COMBINATION CONCRETE CURB AND GUTTER TYPE C (STD. NO. MC-101.01)		
QUANTITY (SF)	STA. START	STA. END
3.4	2+74.71 LT	2+78.18 LT
14.4	2+97.08 LT	3+11.69 LT
42	3+32.48 LT	3+75.00 LT
36.7	4+61.93 LT	5+21.03 LT
31.1	5+25.08 LT	5+58.58 LT
7.3	5+60.82 LT	5+68.04 LT
7.3	5+72.09 LT	5+79.05 LT
14.3	5+83.59 LT	5+98.10 LT
7.3	6+02.15 LT	6+09.58 LT
7.3	6+13.62 LT	6+21.05 LT
9.6	6+25.12 LT	6+34.81 LT
55.1	6+55.96 LT	7+21.25 LT
8.1	7+41.27 LT	7+50.00 LT

DEPRESSED CURB ENTRANCE (STD. NO. MC-102.01)		
QUANTITY (SF)	STA. START	STA. END
38.3	2+11.59 LT	2+40.20 LT
8.7	2+78.18 LT	2+97.08 LT
20.5	3+11.69 LT	3+32.48 LT
5	3+75.00 LT	3+80.00 LT
8.7	4+09.06 LT	4+13.00 LT
5.4	4+47.90 LT	4+48.24 LT
6	4+49.83 LT	4+53.36 LT
21	6+34.81 LT	6+55.96 LT
20	7+21.25 LT	7+41.27 LT

4 INCH THICK RESIDENTIAL SIDEWALK (STD. NO. MC-110.01)		
QUANTITY (SF)	STA. START	STA. END
705	1+1.86 LT	2+15.58 LT
262	2+35.25 LT	2+81.04 LT
134	2+13.40 LT	3+16.27 LT
528	3+28.78 LT	4+11.82 LT
1196	4+11.58 LT	6+38.91 LT
436	6+12.00 LT	7+25.25 LT
77	7+27.27 LT	7+50.00 LT

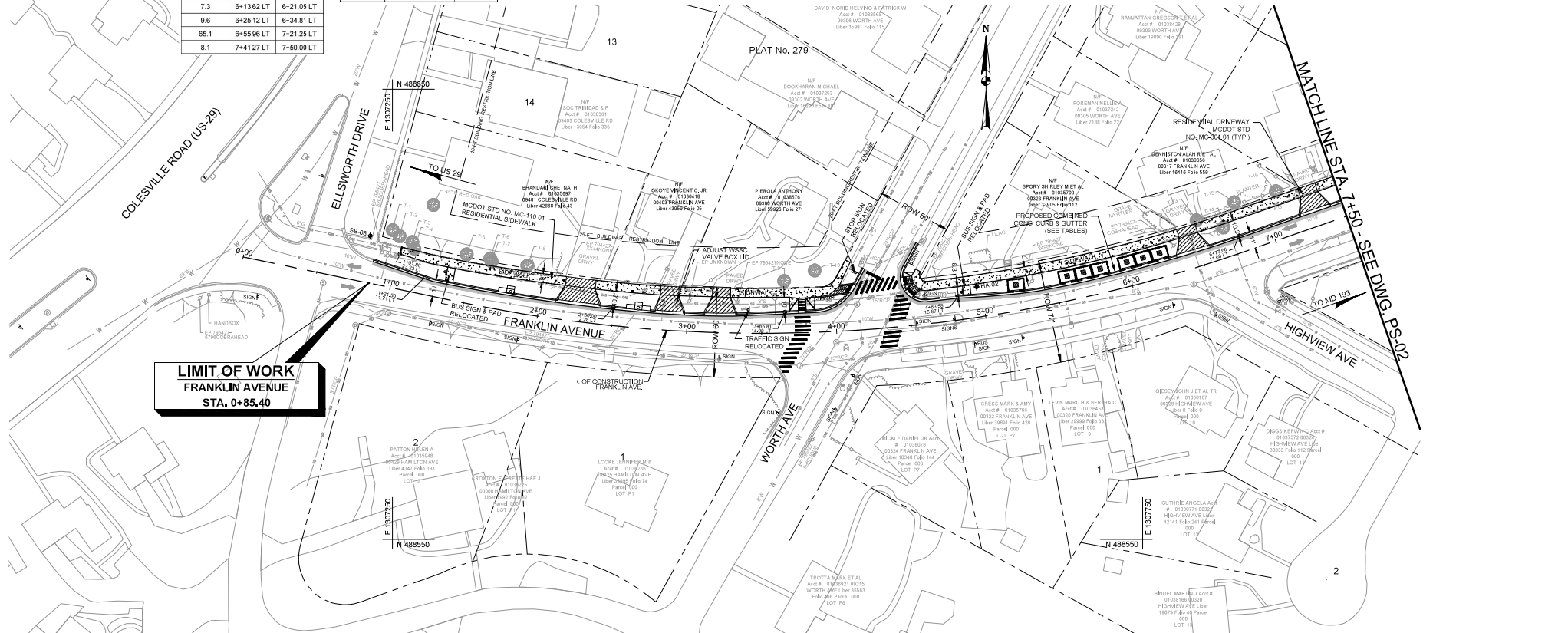
7 INCH THICK PLAN CONCRETE FOR DRIVEWAYS AND DRIVEWAY APRONS (STD. NO. MC-301.01)	
QUANTITY (SF)	STATION
361	2+25.86 LT
233	2+87.22 LT
247	3+22.52 LT
247	6+45.45 LT
237	7+31.29 LT

SIDEWALK RAMP PERPENDICULAR (STD. NO. MD-655.11)	
QUANTITY (EA)	STATION
1	3+77.53 LT
1	4+11.21 LT
1	4+47.85 LT
1	4+51.10 LT

DETECTABLE WARNING SURFACE (STD. NO. MD-655.40)	
QUANTITY (SF)	STATION
10	3+77.53 LT
13	4+14.83 LT
10	4+47.88 LT
11	4+51.57 LT

CURB OPENING @ PLANTERS OPENING SIZE (4'-C" X 0'-3" MIN) STA. (CENTER OF OPENING)	
5+23.00 LT	
5+58.63 LT	
5+70.00 LT	
5+81.57 LT	
6+00.00 LT	
6+11.60 LT	
6+23.00 LT	

FULL DEPTH BITUMINOUS CONCRETE PAVEMENT		
QUANTITY	STA. START	STA. END
77 SY	0+85.45 LT	4+23.57 LT
57 SY	4+57.33 LT	7+50.00 LT

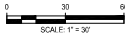


REFERENCE NOTES:

- FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE., SEE DWG. EX-06.
- FOR STORM DRAIN PLAN, SEE DWG'S, SD-01 TO SD-08.
- FOR PLANTER BOX AND PERVIOUS CONCRETE PLAN, SEE DWG'S, SWM-01 TO SWM-04.
- FOR SOIL BORING LOGS, SEE DWG SB-08 & HA-02.

LEGEND:

- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- PERVIOUS CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT
- SOIL BORING LOCATIONS



OWNER/ADDRESS:

DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:

DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL:	
Chief, Design Section	Date
APPROVED:	
Chief, Division of Transportation Engineering	Date
Designed by	Drawn by
Checked by	

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

Stormwater Management:	Sediment Control Technical Requirements:
Reviewed	Reviewed
Date	Date
Approved	Approved
Date	Date

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.

Administrative Requirements:
Reviewed
Date
Approved
Date

FRANKLIN AVENUE
SIDEWALK
ROADWAY AND SIDEWALK PLAN
STA. 0+00 TO STA. 7+50

SCALE: AS SHOWN

PS-01

COMBINATION CONCRETE CURB AND GUTTER TYPE A (STD. NO. MC-100.01)		
QUANTITY (LF)	STA. START	STA. END
21.9	11+11.42 LT	11+26.32 LT
10	11+26.00 LT	11+26.00 LT
16.4	11+49.20 LT	11+59.00 LT
43.4	11+62.93 LT	12+00.82 LT
4.1	12+07.91 LT	12+02.00 LT

COMBINATION CONCRETE CURB AND GUTTER TYPE C (STD. NO. MC-101.01)		
QUANTITY (LF)	STA. START	STA. END
98.0	7+50.00 LT	8+48.00 LT
136.3	8+66.00 LT	10+02.00 LT
65.1	10+46.36 LT	11+11.42 LT
5.0	12+07.00 LT	12+12.00 LT
32.2	12+25.96 LT	12+58.00 LT
31.7	12+75.84 LT	13+07.39 LT
24.5	13+26.26 LT	13+50.62 LT
5.6	13+71.96 LT	13+77.52 LT
3.6	13+98.36 LT	14+01.97 LT
25.7	14+41.62 LT	14+87.21 LT
15.5	14+84.64 LT	15+00.00 LT

DEPRESSED CURB ENTRANCE (STD. NO. MC-102.01)		
QUANTITY (LF)	STA. START	STA. END
18.0	8+48.00 LT	8+66.00 LT
44.0	10+42.36 LT	10+46.31 LT
5.0	11+26.32 LT	11+26.00 LT
5.0	11+59.01 LT	11+62.93 LT
5.0	12+02.82 LT	12+07.91 LT
14.0	12+12.00 LT	12+25.96 LT
18.0	12+57.95 LT	12+75.84 LT
19.0	13+07.39 LT	13+26.26 LT
21.3	13+50.62 LT	13+72.00 LT
39.0	14+01.97 LT	14+41.62 LT
17.3	14+67.21 LT	14+84.64 LT

FULL DEPTH BITUMINOUS CONCRETE PAVEMENT		
QUANTITY (SY)	STA. START	STA. END
108	7+50.00 LT	11+23.66 LT
82	11+46.61 LT	15+00.00 LT

4 INCH THICK RESIDENTIAL SIDEWALK (STD. NO. MC-110.01)		
QUANTITY (SF)	STA. START	STA. END
673.4	7+50.00 LT	8+52.02 LT
908.9	8+62.02 LT	10+06.36 LT
535.3	10+42.31 LT	11+05.72 LT
343.8	11+61.00 LT	12+14.00 LT
281.5	12+23.86 LT	12+61.92 LT
240.2	12+71.81 LT	13+11.33 LT
196.5	13+22.24 LT	13+54.53 LT
230.6	13+67.92 LT	14+05.69 LT
207.9	14+36.90 LT	14+71.00 LT
112.2	14+81.00 LT	15+00.00 LT

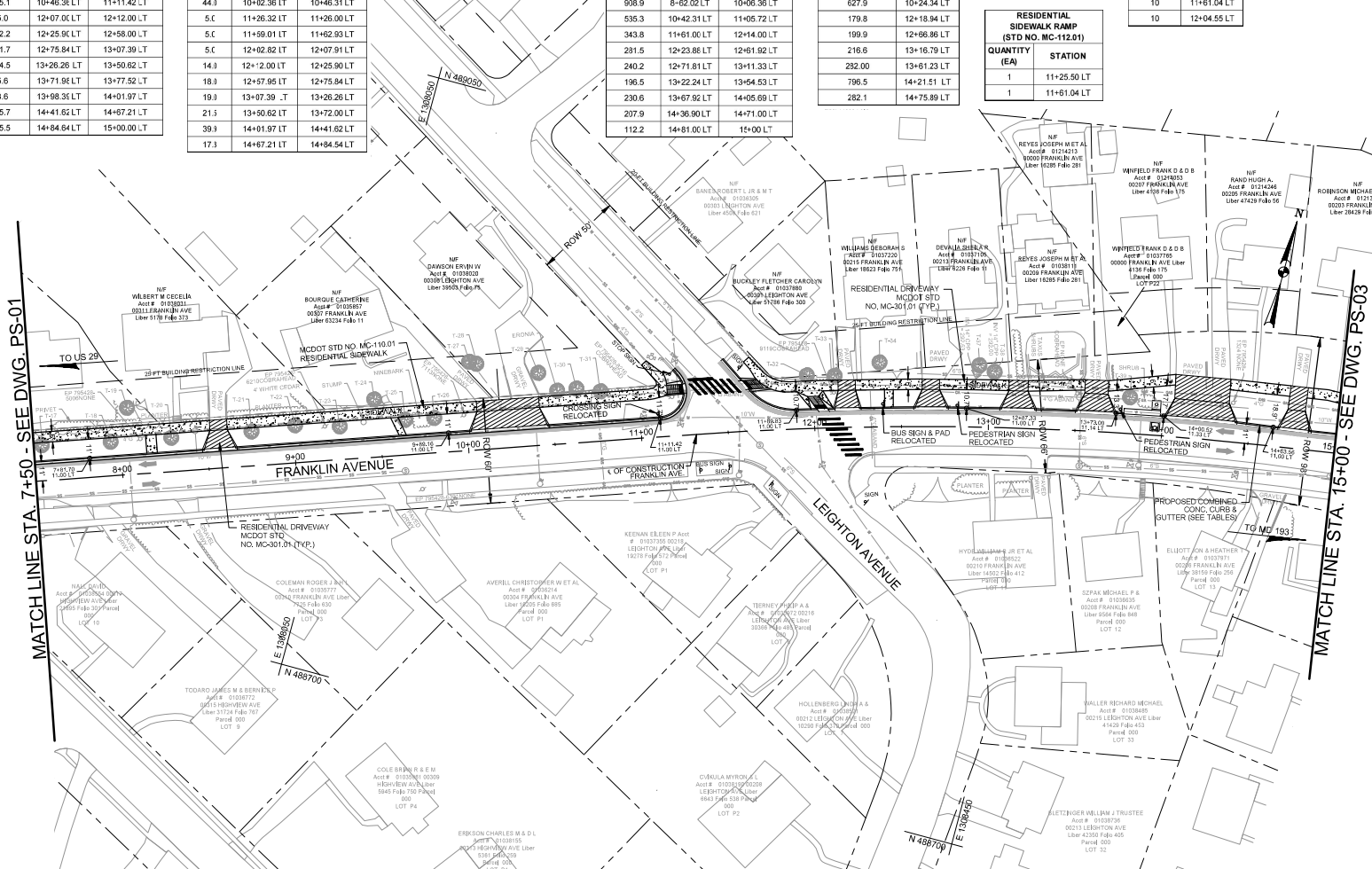
7 INCH THICK PLAIN CONCRETE FOR DRIVEWAYS AND DRIVEWAY APRONS (STD. NO. MC-301.01)		
QUANTITY (SF)	STATION	
204.5	8+57.00 LT	
627.9	10+24.34 LT	
179.8	12+18.94 LT	
199.9	12+66.86 LT	
216.6	13+16.79 LT	
282.0	13+61.23 LT	
786.5	14+21.51 LT	
282.1	14+75.89 LT	

SIDEWALK RAMP PERPENDICULAR (STD. NO. MC-555.11)		
QUANTITY (EA)	STATION	
1	12+04.55 LT	

RESIDENTIAL SIDEWALK RAMP (STD. NO. MC-112.01)		
QUANTITY (EA)	STATION	
1	11+25.50 LT	
1	11+61.04 LT	

DETECTABLE WARNING SURFACE (STD. NO. MD-555.40)		
QUANTITY (SF)	STATION	
10	11+25.50 LT	
10	11+61.04 LT	
10	12+04.55 LT	

SHEET NO.	TOTAL SHEETS
16	109

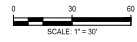


REFERENCE NOTES:

- FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE, SEE DWG. EX-06.
- FOR STORM DRAIN PLAN, SEE DWG'S, SD-01 TO SD-06.
- FOR PLANTER BOX AND PERVIOUS CONCRETE PLAN, SEE DWG'S, SVM-01 TO SVM-04.

LEGEND:

- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- PERVIOUS CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT



Engineers, Architects
Development Consultants
1880 Shady Grove Road, Rockville, MD 20850
Phone: 301-460-9999 Fax: 301-460-9997
www.ardco.com

NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GATHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Transportation Engineering

Designed by

Drawn by

Checked by

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

Stormwater Management

Reviewed

Approved

Reviewed

Approved

Reviewed

Approved

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.

Administrative Requirements

Reviewed

Approved

Reviewed

Approved

FRANKLIN AVENUE
SIDEWALK
ROADWAY AND SIDEWALK PLAN
STA. 7+50 TO STA. 15+00

SCALE: AS SHOWN

Project No. _____

PS-02

REINFORCED RETAINING WALL		
QUANTITY (LF)	STA. START	STA. END
243.8	16+82.68 LT	19+30.71 LT

QUANTITY	STA START	STA END
6.0	22+30.17 LT	22+36.17 LT
6.0	22+92.71 LT	22+165.57 LT
6.0	23+21.86 LT	23+19.23 LT
5.0	23+25.84 LT	23+30.64 LT
17.0	24+30.10 LT	24+47.00 LT
22.0	24+49.32 LT	24+71.20 LT
11.0	25+15.11 LT	25+26.05 LT
6.0	25+53.84 LT	25+59.80 LT
9.4	25+82.71 LT	25+67.29 LT
6.4	26+13.90 LT	26+12.89 LT
5.0	26+28.30 LT	26+33.00 LT
36.0	27+06.52 LT	28+22.51 LT
6.4	29+29.10 LT	29+35.19 LT
6.0	29+88.38 LT	29+68.71 LT
6.0	29+96.15 LT	29+69.50 LT



COMBINATION CONCRETE CURB AND GUTTER
TYPE A (STD. NO. MC-100.01)

QUANTITY (LF)	STA. START	STA. END
28.5	34+08.13 LT	34+32.53 LT
28.2	34+35.52 LT	34+37.48 LT
33.0	34+67.10 LT	34+72.69 LT
23.7	34+77.60 LT	34+99.10 LT
4.4	35+04.10 LT	35+08.51 LT
36.3	35+16.22 LT	37+51.98 LT
7.4	37+80.16 LT	37+64.23 LT
6.5	37+67.54 LT	37+69.28 LT
17.0	37+95.74 LT	38+00.22 LT
29.0	38+05.10 LT	38+29.05 LT
63.3	38+21.73 (MEDIAN)	38+52.38 (MEDIAN)
7.0	38+34.11 LT	38+41.21 LT

COMBINATION CONCRETE CURB AND GUTTER
TYPE C (STD. NO. MC-101.01)

QUANTITY (LF)	STA. START	STA. END
95.5	30+50.00 LT	31+45.64 LT
8.7	31+55.61 LT	32+04.34 LT
27.7	32+28.48 LT	32+55.58 LT
2.2	32+65.08 LT	32+67.15 LT
65.9	32+81.15 LT	33+44.95 LT
47	33+56.12 LT	34+03.12 LT
10.3	35+19.51 LT	35+29.83 LT
18.3	35+57.03 LT	35+75.29 LT
14.3	35+96.20 LT	36+10.54 LT
40.6	36+21.62 LT	36+62.51 LT
24.2	36+80.12 LT	37+05.16 LT

DEPRESSED CURB ENTRANCE
(STD. NO. MC-102.01)

QUANTITY (LF)	STA. START	STA. END
50.0	31+45.54 LT	31+45.61 LT
24.2	32+04.34 LT	32+18.48 LT
14.0	32+67.15 LT	32+81.15 LT
5.0	34+03.13 LT	34+48.13 LT
7.0	34+32.84 LT	34+38.09 LT
8.0	34+73.48 LT	34+78.44 LT
5.0	34+99.10 LT	35+44.10 LT
27.2	35+29.83 LT	35+47.03 LT
20.9	35+75.29 LT	35+86.20 LT
18.2	36+02.51 LT	36+40.82 LT
8.1	37+52.36 LT	37+49.21 LT
8.1	37+65.34 LT	37+48.91 LT
7.7	38+00.86 LT	38+44.24 LT
5.0	38+29.06 LT	38+44.11 LT

4 INCH THICK RESIDENTIAL SIDEWALK
(STD. NO. MC-110.01)

QUANTITY (SF)	STA. START	STA. END
226	30+50.00 LT	30+87.52 LT
64	33+39.68 LT	33+44.68 LT
48	33+60.87 LT	32+64.64 LT
83	34+12.64 LT	34+26.32 LT
119	34+85.10 LT	35+05.15 LT
412	35+97.03 LT	36+63.47 LT
425	36+79.79 LT	37+44.50 LT
83	38+09.21 LT	38+22.10 LT
58	38+40.18 LT	38+50.00 LT

SIDEWALK RAMP PERPENDICULAR
(STD. NO. MD-555.11)

QUANTITY (EA)	STATION
1	35+01.60 LT
1	35+01.60 RT

SIDEWALK RAMP PARALLEL
(STD. NO. MD-555.12)

QUANTITY (EA)	STATION
1	37+55.95 LT
1	37+65.50 LT
1	38+03.71 LT
1	38+31.59 LT

DETECTABLE WARNING SURFACE
(STD. NO. MD-555.40)

QUANTITY (SF)	STATION
10	34+05.63 LT
13	34+33.59 LT
17	34+75.77 LT
10	35+01.60 LT
10	35+01.60 RT
15	37+55.94 LT
12	37+65.50 LT
12	38+03.71 LT
10	38+31.59 LT
18	38+31.59 LT (MEDIAN)

7 INCH THICK PLAIN CONCRETE FOR DRIVEWAYS AND DRIVEWAY APRONS
(STD. NO. MC-301.01)

QUANTITY (SF)	STATION
319	35+43.53 LT
269	35+82.78 LT
115	36+71.66 LT

7 INCH THICK PLAIN CONCRETE FOR DRIVEWAYS AND DRIVEWAY APRONS
(STD. NO. MC-301.04)

QUANTITY (SF)	STATION
336	31+70.81 LT
149	32+15.91 LT

7 INCH THICK PLAIN CONCRETE FOR DRIVEWAYS AND DRIVEWAY APRONS
(SHA STD. NO. MC-630.01)

QUANTITY (SF)	STATION
105	32+74.15 LT

RESIDENTIAL SIDEWALK RAMP
(STD. NO. MC-112.01)

QUANTITY (EA)	STATION
1	34+05.63 LT
1	34+33.80 LT
1	34+75.63 LT

FULL DEPTH BITUMINOUS CONCRETE PAVEMENT

QUANTITY (SY)	STA. START	STA. END
159.6	30+50.00 LT	34+41.00 LT
78.3	34+65.00 LT	37+73.00 LT
17.6	37+92.00 LT	38+50.00 LT

4 INCH PERVIOUS CONCRETE SIDEWALK

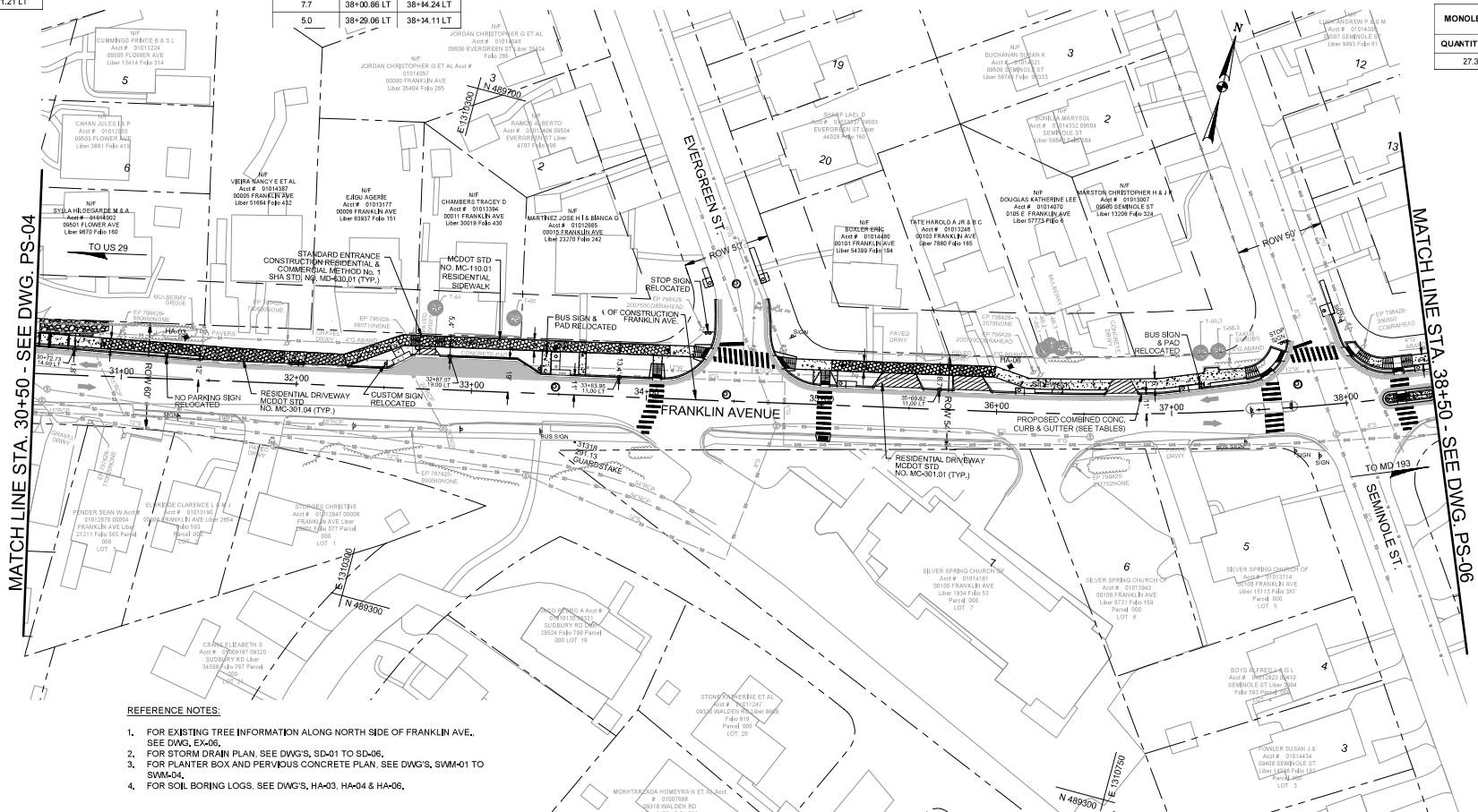
QUANTITY (SF)	STA. START	STA. END
362	30+87.52 LT	31+46.32 LT
1330	31+95.61 LT	34+12.64 LT
557	35+05.15 LT	35+97.93 LT

MEDIAN OPENING
(STD. NO. MC-114.01)

QUANTITY (EA)	STATION
1	38+31.59

MONOLETHIC CONCRETE MEDIAN, 4' WIDE

QUANTITY (LF)	STA. START	STA. END
27.3	38+24.44	38+51.72

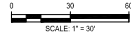


REFERENCE NOTES:

- FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE., SEE DWG. EX-06.
- FOR STORM DRAIN PLAN, SEE DWG'S, SD-01 TO SD-06.
- FOR PLANTER BOX AND PERVIOUS CONCRETE PLAN, SEE DWG'S, SWM-01 TO SWM-04.
- FOR SOIL BORING LOGS, SEE DWG'S, HA-03, HA-04 & HA-06.

LEGEND:

- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- PERVIOUS CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT
- SOIL BORING LOCATIONS



Engineers, Architects
Development Consultants
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www.sheladell.com

NO.	REVISION	DATE	BY

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GATHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL:

Chief, Design Section
Approved: _____ Date: _____

Chief, Division of Transportation Engineering
Approved: _____ Date: _____

Designed by: _____ Drawn by: _____ Checked by: _____

MONTGOMERY COUNTY, DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

Sediment Control Technical Requirements:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.

Administrative Requirements:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

**FRANKLIN AVENUE
SIDEWALK
ROADWAY AND SIDEWALK PLAN
STA. 30+50 TO STA. 38+50**

SCALE: AS SHOWN

PS-05

COMBINATION CONCRETE CURB AND GUTTER TYPE A (STD. NO MC-100.01)		
QUANTITY (LF)	STA. START	STA. END
7.7	40+52.80 LT	40+60.51 LT
11	40+65.56 LT	40+74.66 LT
43.4	40+78.18 LT	40+82.89 LT
30.3	41+10.39 LT	41+15.39 LT
5.3	41+44.42 LT	41+46.71 LT
26.5	43+26.25 LT	43+35.29 LT
21.2	43+46.39 LT	43+54.18 LT
22.5	43+55.71 LT	43+59.06 LT
19.8	43+82.38 LT	43+84.65 LT
14.1	43+97.37 LT	43+97.63 LT
20.2	44+02.40 LT	44+22.37 LT

COMBINATION CONCRETE CURB AND GUTTER TYPE B (STD. NO MC-101.01)		
QUANTITY (LF)	STA. START	STA. END
38.5	38+52.32 LT	38+91.14 LT
27.8	39+15.37 LT	39+43.41 LT
90.5	39+61.84 LT	40+52.80 LT
105.3	41+46.71 LT	42+49.29 LT
67.2	42+61.79 LT	43+26.17 LT
49.9	44+23.38 LT	44+75.50 LT
48.3	44+85.50 LT	45+31.31 LT
18.7	45+46.31 LT	45+52.90 LT
45.1	45+67.90 LT	46+09.42 LT

DEPRESSED CURB ENTRANCE (STD. NO MC-102.01)		
QUANTITY (LF)	STA. START	STA. END
24.0	38+91.14 LT	39+15.37 LT
18.0	39+43.33 LT	39+61.84 LT
5.0	40+60.51 LT	40+65.56 LT
5.0	40+74.66 LT	40+78.18 LT
6.2	41+16.39 LT	41+20.55 LT
5.0	41+36.34 LT	41+41.42 LT
44+75.50 LT	44+75.50 LT	44+75.50 LT
17.4	42+49.29 LT	42+61.79 LT
5.0	43+35.29 LT	43+40.39 LT
5.0	43+54.18 LT	43+55.71 LT
5.7	43+84.65 LT	43+87.37 LT
5.2	43+97.63 LT	44+02.40 LT
15.0	45+28.96 LT	45+43.81 LT
19.9	45+50.39 LT	45+70.33 LT

4 INCH THICK RESIDENTIAL SIDEWALK (STD. NO MC-110.01)		
QUANTITY (SF)	STA. START	STA. END
267	38+59.00 LT	38+95.22 LT
213	39+11.42 LT	39+47.46 LT
641	39+57.62 LT	40+67.18 LT
769	41+28.52 LT	42+49.29 LT
459	42+01.79 LT	43+46.77 LT
213	43+04.18 LT	45+28.51 LT
134	44+33.12 LT	44+68.35 LT
229	45+71.30 LT	46+09.42 LT

7 INCH THICK PLAIN CONCRETE FOR DRIVEWAYS AND DRIVEWAY APRONS (STD NO. MC-301.01)	
QUANTITY (SF)	STATION
198.5	39+03.32 LT
144.2	39+52.54 LT

4 INCH PERVIOUS CONCRETE SIDEWALK		
QUANTITY (SF)	STA. START	STA. END
857	44+28.52 LT	45+71.30 LT

SIDEWALK RAMP PEPPER CONULAR (STONO. M2-655.11)	
QUANTITY (EA)	STATION
1	40+62.78 LT
1	40+75.41 LT
1	41+19.17 LT
1	41+28.65 LT
1	43+39.00 LT
1	43+54.27 LT
1	43+86.65 LT
1	44+00.12 LT

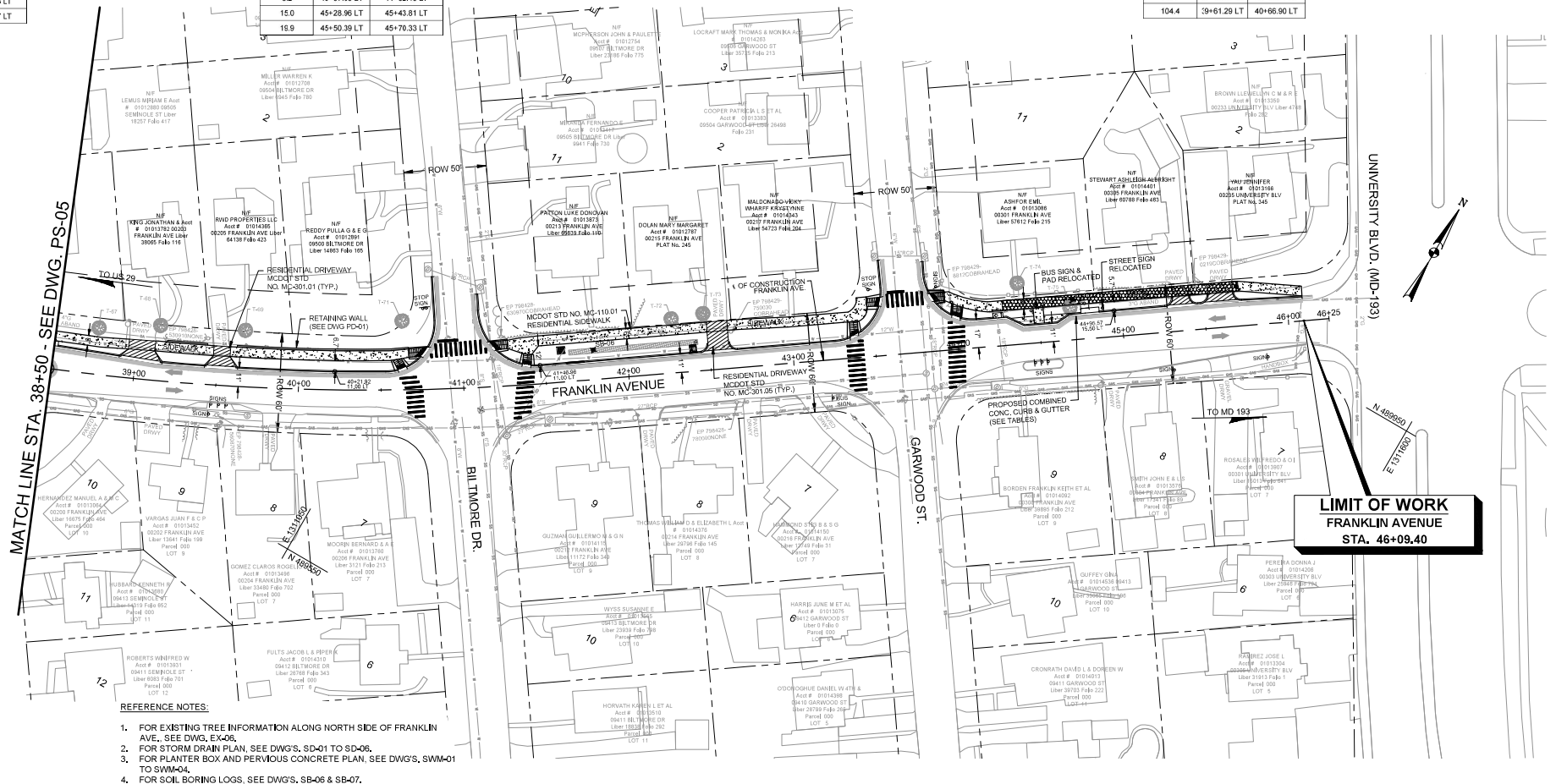
DETECTABLE WARNING SURFACE (STD NO. MD-655.40)	
QUANTITY (SF)	STATION
10	44+61.54 LT
10	44+77.18 LT
12.6	41+19.17 LT
10	41+28.65 LT
10	42+86.65 LT
10	43+53.88 LT
11.8	44+86.65 LT
10	44+01.77 LT

7 INCH THICK PLAIN CONCRETE FOR DRIVEWAYS AND DRIVEWAY APRONS (STD NO MC-301.05)	
QUANTITY (SF)	STATION
223.0	42+55.54 LT
116.3	45+36.32 LT
171.1	45+50.40 LT

REINFORCED RETAINING WALL		
QUANTITY (LF)	STA. START	STA. END
24.4	39+18.70 LT	39+43.51 LT
104.4	39+61.29 LT	40+66.90 LT

FULL DEPTH BITUMINOUS CONCRETE PAVEMENT		
QUANTITY (CY)	STA. START	STA. END
77.1	38+50.08 LT	40+62.89 LT
57.1	41+10.39 LT	43+56.06 LT
57.4	43+82.38 LT	46+09.42 LT

SHEET NO.	TOTAL SHEETS
20	109



REFERENCE NOTES:

- FOR EXISTING TREE INFORMATION ALONG NORTH SIDE OF FRANKLIN AVE., SEE DWG. EX-06.
- FOR STORM DRAIN PLAN, SEE DWG'S SD-01 TO SD-06.
- FOR PLANTER BOX AND PERVIOUS CONCRETE PLAN, SEE DWG'S SWM-01 TO SWM-04.
- FOR SOIL BORING LOGS, SEE DWG'S SB-06 & SB-07.

LEGEND:

- CONCRETE SIDEWALK
- CONCRETE DRIVEWAY
- PERVIOUS CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT
- SOIL BORING LOCATIONS

SCALE: 1" = 30'



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GANTHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
245-777-7210
DESIGN SECTION
245-777-7221

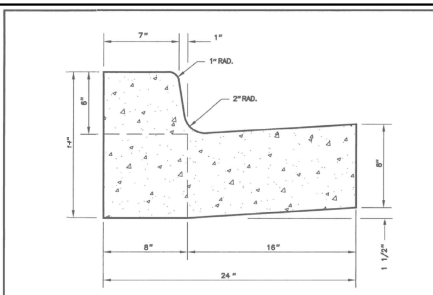
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL:	
Chief, Design Section	Date
Approved	
Chief, Division of Transportation Engineering	Date
Designed by	Drawn by
Checked by	

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management:	
Reviewed	Date
Approved	Date
Reviewed	Date
Approved	Date

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	
Administrative Requirements:	
Reviewed	Date
Approved	Date

FRANKLIN AVENUE
SIDEWALK
ROADWAY AND SIDEWALK PLAN
STA. 38+50 TO STA. 46+09.40

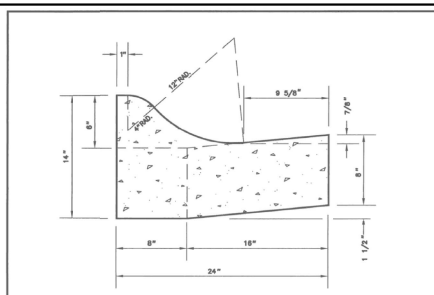
SCALE: AS SHOWN
PS - 06



GENERAL NOTES

1. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS, METHODS OF CONSTRUCTION AND EXPANSION JOINT LOCATIONS.
2. THIS STANDARD SHALL BE USED ON PRIMARY RESIDENTIAL, ARTERIAL AND BUSINESS DISTRICT ROADS AS WELL AS CURB RETURNS AND INLET THROATS.
3. WHENEVER STANDARD MC-100.01 CURB IS USED IN CONJUNCTION WITH THIS STANDARD, A TEN FOOT TRANSITION SHALL BE PROVIDED FROM STANDARD MC-100.01 TO STANDARD MC-101.01 FOR CURB RETURNS AND CURB SECTIONS WHICH INCLUDE INLETS.
4. THE STANDARD DISTANCE BETWEEN JOINTS SHALL BE TEN FEET (MAXIMUM AND MINIMUM DISTANCES SHALL BE THIRTEEN FEET AND FIVE FEET RESPECTIVELY).
5. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C820.

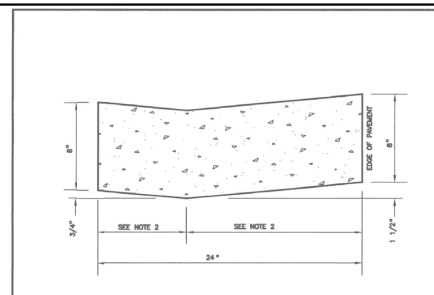
APPROVED	14 APR 06	REVISED	ATM-C820 4/2006	MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
<i>[Signature]</i>	DATE			
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION				COMBINATION CONCRETE CURB AND GUTTER TYPE A
<i>[Signature]</i>				STANDARD NO. MC-100.01
CHIEF, DIV. OF CAP. DEV.				



GENERAL NOTES

1. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS, METHODS OF CONSTRUCTION AND EXPANSION JOINT LOCATIONS.
2. THIS STANDARD SHALL BE USED ON PRIMARY, SECONDARY AND TERTIARY RESIDENTIAL ROADS EXCEPT AT CURB RETURNS AND INLET THROATS.
3. WHENEVER STANDARD MC-100.01 CURB IS USED IN CONJUNCTION WITH THIS STANDARD, A TEN FOOT TRANSITION SHALL BE PROVIDED FROM STANDARD MC-100.01 TO STANDARD MC-101.01 FOR CURB RETURNS AND CURB SECTIONS WHICH INCLUDE INLETS.
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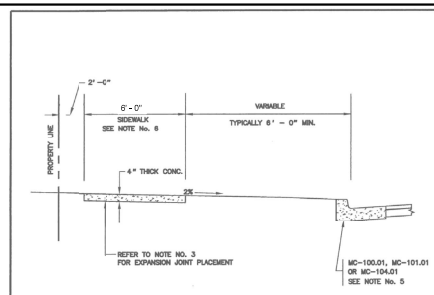
APPROVED	14 APR 06	REVISED	ATM-C820 4/2006	MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
<i>[Signature]</i>	DATE			
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION				COMBINATION CONCRETE CURB AND GUTTER TYPE C
<i>[Signature]</i>				STANDARD NO. MC-101.01
CHIEF, DIV. OF CAP. DEV.				



GENERAL NOTES

1. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS, METHODS OF CONSTRUCTION AND EXPANSION JOINT LOCATIONS.
2. THE DISTANCES FROM THE FLOWLINE TO THE FRONT AND BACK EDGE OF CURB SHALL BE ADJUSTED TO MATCH EXISTING CONDITIONS.
3. THE STANDARD DISTANCE BETWEEN JOINTS SHALL BE TEN FEET (MAXIMUM AND MINIMUM DISTANCES SHALL BE THIRTEEN FEET AND FIVE FEET RESPECTIVELY).
4. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C820.

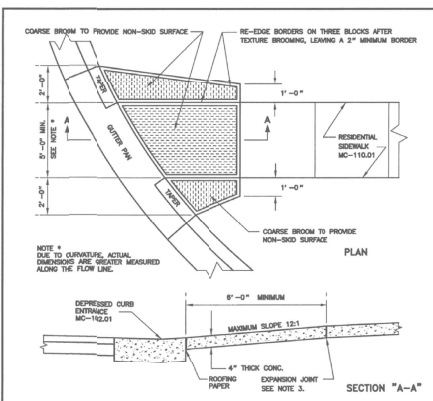
APPROVED	14 APR 06	REVISED	ATM-C820 4/2006	MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
<i>[Signature]</i>	DATE			
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION				DEPRESSED CURB ENTRANCE
<i>[Signature]</i>				STANDARD NO. MC-102.01
CHIEF, DIV. OF CAP. DEV.				



GENERAL NOTES

1. REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. REFER TO THE APPLICABLE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DETAILS AT DRIVEWAYS.
3. EXPANSION JOINTS SHALL HAVE A MAXIMUM SPACING OF 100 FEET AND BE LOCATED AT POINTS OF CURVATURE. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C820.
4. SCORE THE CONCRETE TO A DEPTH OF 1/2 THE SLAB THICKNESS TO PROVIDE WEAKENED PLANE TRANSVERSE JOINTS AT 5'-0" INTERVALS.
5. REFER TO THE APPLICABLE ROAD STANDARD AND CURB AND GUTTER STANDARDS FOR OTHER OPTIONS.
6. SIDEWALK WIDTH SHALL BE 4'-0" FOR SECONDARY AND TERTIARY ROADWAYS.

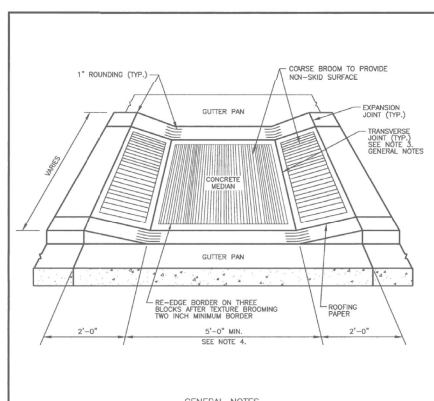
APPROVED	14 APR 06	REVISED	ATM-C820 4/2006	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
<i>[Signature]</i>	DATE			
DIRECTOR, DEPT. OF TRANSPORTATION				RESIDENTIAL SIDEWALK CLOSED SECTION
<i>[Signature]</i>				STANDARD NO. MC-110.01
CHIEF, DIV. OF CAP. DEV.				



GENERAL NOTES

1. REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. SIDEWALK RAMP SHOULD BE LOCATED AS INDICATED. HOWEVER, EXISTING SURFACE UTILITIES AND DRAINAGE OR PROPOSED GEOMETRICS MAY AFFECT PLACEMENT.
3. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT, COMPLYING WITH ASTM-C820.

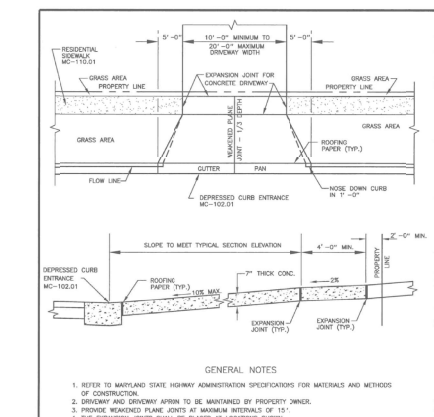
APPROVED	14 APR 06	REVISED	ATM-C820 4/2006	MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
<i>[Signature]</i>	DATE			
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION				RESIDENTIAL SIDEWALK RAMP
<i>[Signature]</i>				STANDARD NO. MC-112.01
CHIEF, DIV. OF CAP. DEV.				



GENERAL NOTES

1. REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT, COMPLYING WITH ASTM-C820.
3. SCORE THE CONCRETE FOR THE TRANSVERSE JOINTS TO A DEPTH OF 1/2 OF THE THICKNESS TO PROVIDE WEAKENED PLANE.
4. THE WIDTH MAY BE INCREASED TO MATCH THE WIDTH OF AN APPROACHING DRIVEWAY.

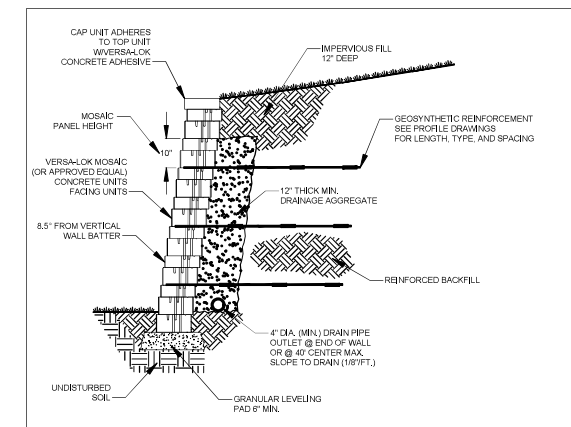
APPROVED	14 APR 06	REVISED	ATM-C820 4/2006	MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
<i>[Signature]</i>	DATE			
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION				MEDIAN OPENING
<i>[Signature]</i>				STANDARD NO. MC-114.01
CHIEF, DIV. OF CAP. DEV.				



GENERAL NOTES

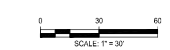
1. REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. DRIVEWAY AND DRIVEWAY APPROX. TO BE MAINTAINED BY PROPERTY OWNER.
3. PROVIDE WEAKENED PLANE JOINTS AT MAXIMUM INTERVALS OF 10'.
4. THE EXPANSION JOINT SHALL BE PLACED AT LOCATIONS INDICATED.
5. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT, COMPLYING WITH ASTM-C820.

APPROVED	14 APR 06	REVISED	ATM-C820 4/2006	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
<i>[Signature]</i>	DATE			
DIRECTOR, DEPT. OF TRANSPORTATION				RESIDENTIAL DRIVEWAY
<i>[Signature]</i>				STANDARD NO. MC-301.01
CHIEF, DIV. OF CAP. DEV.				



TYPICAL SECTION-REINFORCED RETAINING WALL

MOSAIC SCALE NONE

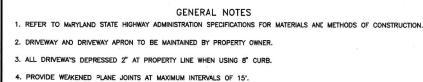


Engineers, Architects
Development Consultants
1815 Sandy Spring Road, Rockville, MD 20850
Phone: 301-477-1100 Fax: 301-477-1174
www.sheladine.com

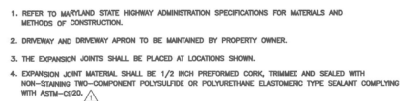
NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL	DATE
Chief Design Section	
APPROVED	
Chief Division of Transportation	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	FRANKLIN AVENUE SIDEWALK
MISCELLANEOUS DETAILS - 1	PD - 01
SCALE: AS SHOWN	
Project No. 100	



APPROVED <u>JAN 5/96</u> DATE	REVISED	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
<i>John D. [Signature]</i> DIRECTOR, DEPT. OF TRANS.		RESIDENTIAL DRIVEWAY LIMITED WIDTH
<i>E. [Signature]</i> CHIEF, DIV. OF ENG. SERVICES		STANDARD NO. MC-301.04



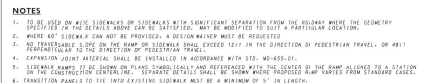
APPROVED <i>14 APR 76</i> DATE <i>Robert H. Hall</i> DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION <i>H. Gary Serrano</i> CHIEF, DIV. OF CAP. DEV.	REVISED REMARKS 04-27-75 ADTH-C310 4/25/76	MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION RESIDENTIAL DRIVEWAY WITH CURB RADIUS STANDARD NO. MC-301.05
---	--	--



* NO. 17 AGGREGATE SHALL COMPLETELY WRAPPED IN 55 GALLON AS DIRECTED BY THE ENGINEER.	
SPECIFICATION 505	CATEGORY CODE: ITEMS
Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES	
APPROVED  DIRECTOR - "PRINCE OF GEORGES" SELECTION	APPROVAL - "PRINCE OF GEORGES" SELECTION DIVISION - ROADS REGION - REGIONAL HIGHWAY ADMINISTRATION APPROVAL: 1-4-84 DATE: 3-10-84 BY: 1-37-15 BY: 2-12-15
	STANDARD NO. MD 578.01



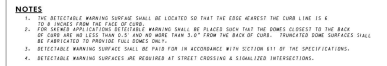
SPECIFICATION		CATEGORY CODE / ITEM		Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL & COMMERCIAL METHOD NO. 1	
APPROVED		[Signature] CHIEF ENGINEER CHIEF OF "STANDARD HIGHWAY DEVELOPMENT"		STANDARD NO. MD 230.01	
SHA State Highway Department	APPROVAL - DIST. DIVISION	APPROVAL - FEDERAL HIGHWAY ADMINISTRATION	APPROVAL - STATE HIGHWAY ADMINISTRATION		
	DATE 3-10-64	DATE 3-31-64	DATE 3-31-64		
	BY [Signature]	BY [Signature]	BY [Signature]		
	DATE 3-10-64	DATE 3-10-64	DATE 3-10-64		



SPECIFICATIONS 603 & 611	CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
APPROVED	DIRECTOR'S SIGNATURE OF PROJECT DEVELOPMENT <i>[Signature]</i>	SIDEWALK RAMPS PERPENDICULAR
SHA State Highway Administration	APPROVALS: DESIGNER: _____ ENGINEERING: _____ CONSTRUCTION: _____ GENERAL CONTRACTOR: _____	
DATE: 1-15-84	PROJECT NO.: 2-12-84 PAGE: 1-1-84 TOTAL PAGES: 1-1-84	
STANDARD NO.	MD 655.11	



SPECIFICATION CATEGORY CODE ITEMS 603 & 611		Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES	
APPROVAL <i>[Signature]</i>		SIDEWALK RAMPS PARALLEL	
SECTION - SPECIAL INSTRUCTIONS SH-4			
DIVISION	DESIGN	CONSTRUCTION	MAINTENANCE
REVISIONS	DATE	BY	REASON
ORIGINAL	2-18-84	REVISED	2-21-84
NO.	3-15-84	REVISED	4-1-84
NO.	5-14	REVISED	5-16-14
STANDARD NO.		MD 655.12	



SECTION/FIGURE 611	CATEGORY CODE (ITEMS)	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
APPROVED	 DESIGNER - (UNIVERSITY OF MARYLAND)  APPROVAL - BSA APPROVAL - FEDERAL REVIEWING HIGHWAY COMMISSION DATE DATE 6-17-84 6-1-84	
DETECTABLE WARNING SURFACES		STANDARD NO. MD 655.40

[illegible]

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	_____ Date
Chief, Division of Transportation Engineering	
_____	_____ Date

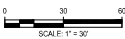
FRANKLIN AVENUE
SIDEWALK
MISCELLANEOUS DETAILS - 2

SCALE : AS SHOWN

PD - 02



- REFERENCE NOTES:
1. SEE DWG'S XS-01 THROUGH XS-23 FOR SECTION VIEWS.
 2. CONTRACTOR SHALL NOT WORK OUTSIDE THE LOD BOUNDARY AS SHOWN ABOVE.



 **Shelady**
Engineers, Architects
Development Consultants
18850 Shady Grove Road, Rockville, MD, 20850
Phone: 301-495-0000 Fax: 301-495-1717
www.shelady.com

NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
245-777-7210
DESIGN SECTION
245-777-7221

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL:	
Chief Design Section	Date
APPROVED	
Chief Division of Transportation Engineering	Date
Designed by	Drawn by
Checked by	

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management:	Sediment Control Technical Requirements:
Reviewed	Reviewed
Date	Date
Approved	Approved
Date	Date

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT

Administrative Requirements:	
Reviewed	Date
APPROVED	
APPROVED FOR THE CITY OF ROCKVILLE	
APPROVED FOR THE COUNTY OF MONTGOMERY	

**FRANKLIN AVENUE
SIDEWALK
GRADING PLAN
STA. 0+00 TO STA. 7+50**

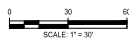
SCALE: AS SHOWN

Project No.:	GP-01
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REFERENCE NOTES:

- SEE DWG'S, XS-01 THROUGH XS-23 FOR SECTION VIEWS.
- CONTRACTOR SHALL NOT WORK OUTSIDE THE LOD BOUNDARY AS SHOWN ABOVE.



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
245-777-7210
DESIGN SECTION
245-777-7221

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL:	
Chief Design Section APPROVED	Date
Chief Division of Transportation Engineering APPROVED	Date
Designed by	Drawn by
Checked by	

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management:	Sediment Control Technical Requirements:
Reviewed Date	Reviewed Date
Approved Date	Approved Date
Approved Date	

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	
Administrative Requirements:	
Reviewed	Date
APPROVED FOR THE CITY OF ROCKVILLE	
APPROVED FOR THE COUNTY OF MONTGOMERY	

**FRANKLIN AVENUE
SIDEWALK
GRADING PLAN
STA. 7+50 TO STA. 15+00**

SCALE: AS SHOWN

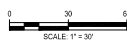
Project No.: 180- of 180

GP-02



REFERENCE NOTES:

- SEE DWG'S. X8-01 THROUGH X8-23 FOR SECTION VIEWS.
- CONTRACTOR SHALL NOT WORK OUTSIDE THE LOD BOUNDARY AS SHOWN ABOVE.



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL:	
Chief Design Section APPROVED	Date
Chief Division of Transportation Engineering	Date
Designed by	Drawn by
Checked by	

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management:	Sediment Control Technical Requirements:
Reviewed Date	Reviewed Date
Approved Date	Approved Date

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	
Administrative Requirements:	
Reviewed	Date

FRANKLIN AVENUE
SIDEWALK
GRADING PLAN
STA. 15+00 TO STA. 22+00

SCALE: AS SHOWN

GP-03

Project No.: 180- of 109

GP-04

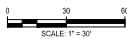
Project No. : TBD 26 of 109

WEDGET APPROVAL OF THIS PLAYABLE IS ONE YEAR FROM THE DATE OF APPROVAL, IF THE SUBJECT DOES NOT STAY UNLESS THE PENDING HAS BEEN EXTENDED



REFERENCE NOTES:

- SEE DWG'S XS-01 THROUGH XS-23 FOR SECTION VIEWS.
- CONTRACTOR SHALL NOT WORK OUTSIDE THE LOD BOUNDARY AS SHOWN ABOVE.



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL:	
Chief Design Section	_____ Date _____
APPROVED	_____ Date _____
Chief Division of Transportation Engineering	_____ Date _____
Designed by _____	Drawn by _____ Checked by _____

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management:	Sediment Control Technical Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____

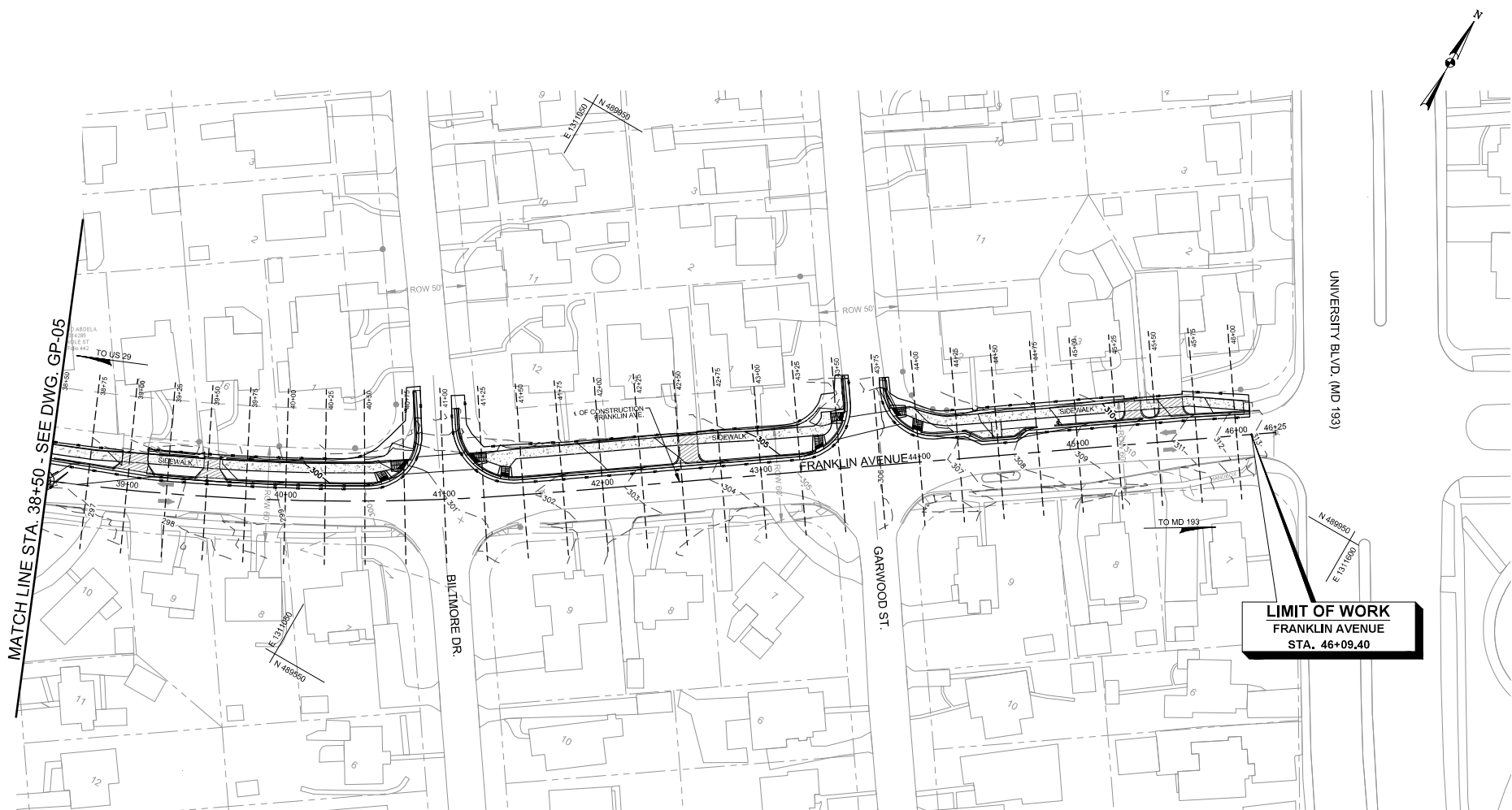
NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.	
Administrative Requirements:	
Reviewed _____ Date _____	
Approved _____ Date _____	

FRANKLIN AVENUE
SIDEWALK
GRADING PLAN
STA. 30+00 TO STA. 38+50

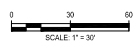
SCALE: AS SHOWN

GP-05

Project No.: _____ of _____



- REFERENCE NOTES:
- SEE DWG'S XS-01 THROUGH XS-23 FOR SECTION VIEWS.
 - CONTRACTOR SHALL NOT WORK OUTSIDE THE LOD BOUNDARY AS SHOWN ABOVE.



 **Engineers, Architects
Development Consultants**
1825 Shady Grove Road, Rockville, MD 20850
Phone: 301-477-7210 Fax: 301-477-7221
www.sheldon.com

NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
245-777-7210
DESIGN SECTION
245-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL:

Chief Design Section	_____	Date	_____
APPROVED	_____	Date	_____
Chief Division of Transportation Engineering	_____	Date	_____
Designed by	_____	Drawn by	_____
Checked by	_____		

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

Stormwater Management:	Sediment Control/Technical Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____

NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT.

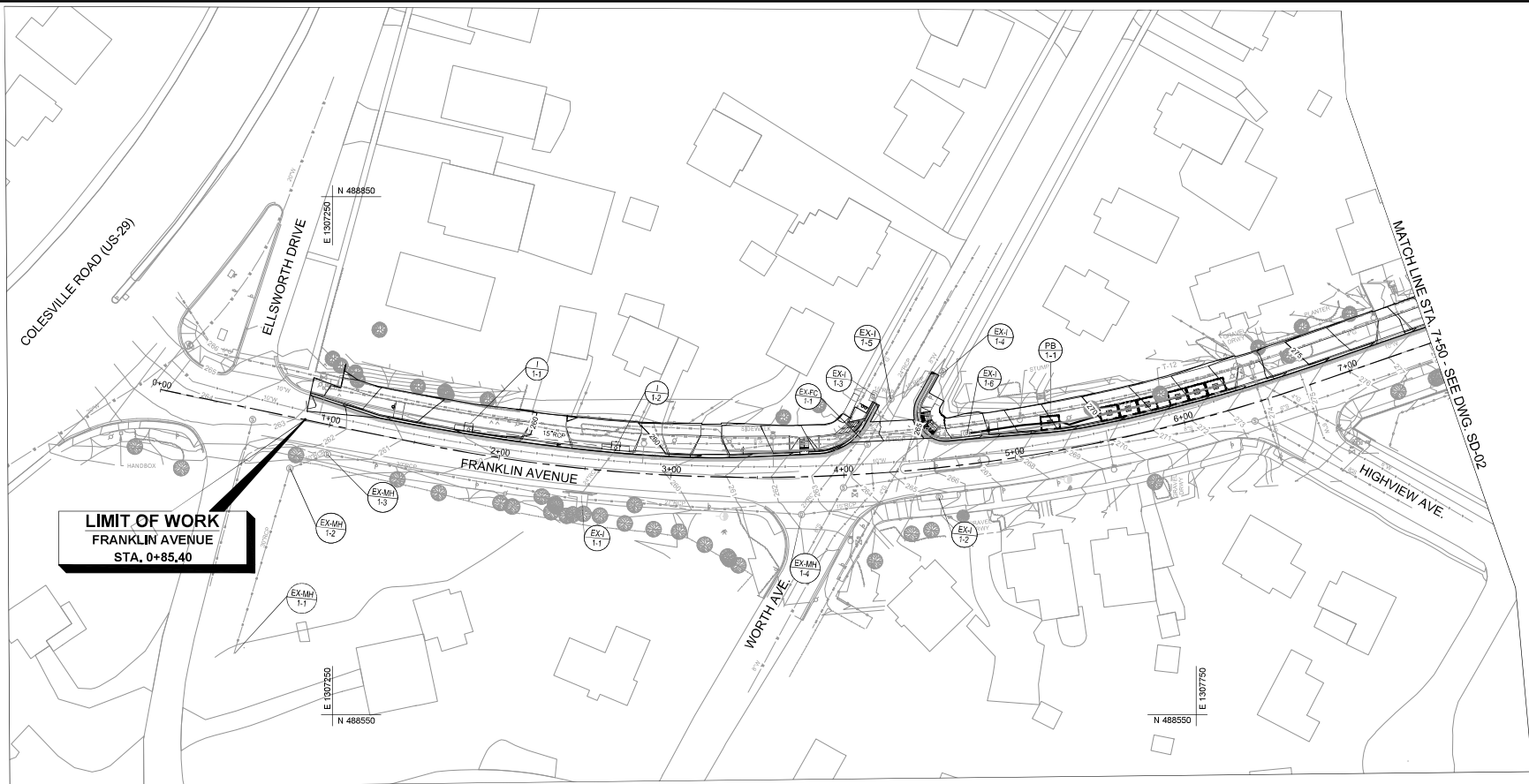
Administrative Requirements:
Reviewed _____ Date _____
Approved _____ Date _____

**FRANKLIN AVENUE
SIDEWALK
GRADING PLAN**
STA. 38+50 TO STA. 46+09.40

SCALE: AS SHOWN

Project No.: 180 of 109

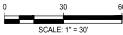
GP - 06



- GENERAL NOTES FOR UTILITIES**
1. THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD SURVEY DATA/OR RECORD DRAWINGS ON THE ORIGINAL LOCATIONS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND LOCATIONS OF THE UTILITIES SHOWN IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES.
 2. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE UTILITY OWNER AT CONTRACTOR EXPENSE, UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BACK FILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.

LEGEND

- BMP-PERVIOUS CONCRETE SIDEWALK
- BMP-BIOSWALE
- BMP-PLANTER BOX
- PROPOSED STRUCTURE NUMBER
- EXISTING STRUCTURE NUMBER
- PROPOSED PIPE
- EX CONTOUR
- PROPOSED CONTOUR



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by	Drawn by
Checked by	

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management	Sediment Control Technical Requirements
Reviewed	Date
Reviewed	Date
Approved	Date

NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT	
Administrative Requirements	
Reviewed	Date
APPROVED FOR MDCPS	

**FRANKLIN AVENUE
SIDEWALK
STORM DRAIN PLAN**

Match line STA. 7+50 - SEE DWG. SD-01

FRANKLIN AVENUE

LEIGHTON AVENUE

Stationing: 7+50, 8+00, 9+00, 10+00, 11+00, 12+00, 13+00, 14+00, 15+00

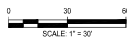
North arrow pointing towards the top of the page.

Various engineering notes and dimensions are present throughout the plan, including "E 1308050", "N 488700", and "E 1308050".

1. THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD SURVEY DATA/ OR RECORD DRAWINGS ON THE ORIGINAL LOCATIONS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND LOCATIONS OF THE UTILITIES SHOWN IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES.

2. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE UTILITY OWNER AT CONTRACTOR EXPENSE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BACK FILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.

	BMP-PERVIOUS CONCRETE SIDEWALK
	BMP-BIOSWALE
	BMP-PLANTER BOX
	PROPOSED STRUCTURE NUMBER
	EXISTING STRUCTURE NUMBER
	PROPOSED PIPE
	EX, CONTOUR
	PROPOSED CONTOUR



S/N	DESCRIPTION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

RECOMMENDED FOR APPROVAL

Chief, Design Section

Chief, Division of Transportation Engineering

Designed by: _____ Drawn by: _____ Checked by: _____

Stormwater Management:

Coordinator: **Management**.

Reviewed _____ Date _____

Approved _____ Date _____

今日(2013年10月)。

Sediment Control Technical

Requirements:

Reviewed	Date
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Approved	Date
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[illegible]

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

Administrative Requirements

Administrative Requirements

Reviewed	Date
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Sebastião Carlos, FENALCO.

PROJECT APPROVAL BY THE PLAYABLE EXHIBITS ONE YEAR
 THE DATE OF APPROVAL OF THE PROJECT HAS NOT YET
 UNDER THE PERMIT HAS BEEN EXTENDED

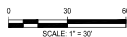
SCALE :

SD-02

1. THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD SURVEY DATA OR RECORD DRAWINGS ON THE ORIGINAL LOCATIONS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND LOCATIONS OF THE UTILITIES SHOWN IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES.

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	BMP-PERVIOUS CONCRETE SIDEWALK
	BMP-BIOSWALE
	BMP-PLANTER BOX
	PROPOSED STRUCTURE NUMBER
	EXISTING STRUCTURE NUMBER
	PROPOSED PIPE
	EX. CONTOUR
	PROPOSED CONTOUR



**Engineers, Architects
Development Consultants**
15825 Shady Grove Road, Rockville, MD, 20850
Phone: 301-580-3930 Fax: 301-945-7174
www.vtdhdc.com

[illegible]

DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

Designed for:

Drawn by:

◎ 2013 年 1 月 1 日起实施

THE DATE OF APPROVAL, IF THE SUBJECT HAS NOT STAYED
UNLESS THE PERMIT HAS BEEN EXTENDED

Development Release	Website
1.0.0	1.0.0
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	BMP-PLANTER BOX
	PROPOSED STRUCTURE NUMBER
	EXISTING STRUCTURE NUMBER
	PROPOSED PIPE
	EX. CONTOUR
	PROPOSED CONTOUR



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR

Stormwater Management

Reviewed	Date
Approved	Date

Sediment Control Technical

Requirements:

Reviewed	Date
Approved	Date

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT

Administrative Requirements

Reviewed _____ Date _____

Regional Control, Permit No. _____

Regional Approval of Display, Effective Date: _____

SCALE

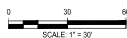
SD-04

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DATE: Mar 15, 2023 - 9:50am

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**Engineers, Architects
Development Consultants**
15825 Shady Grove Road, Rockville, MD, 20850
Phone: 301-590-3939 Fax: 301-940-7174
www.stoddard.com

Nº.	REVISORA	DATE	R/R

DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Transportation Engineering

Designed by: _____ Drawn by: _____ Checked by: _____

SEE TITLE SHEET FOR SIGNATURE

Reviewed	Date
Approved	Date
 David H. H.	

Sediment Control Techniques Requirements:	
Reviewed	Date
Approved	Date

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT

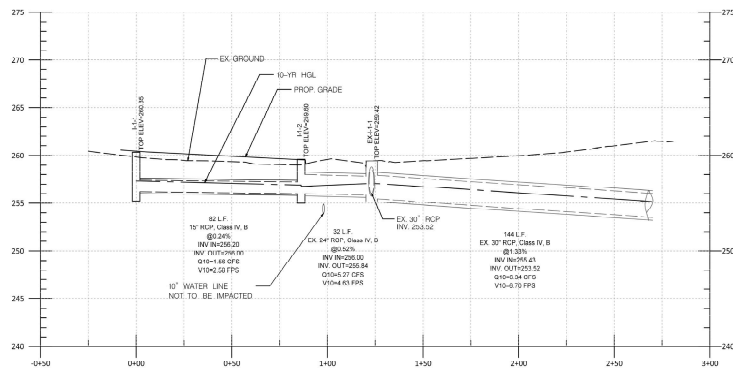
Administrative Requirements:

Reviewed	Date
_____ SENIOR CONTROL PERMITS DIV.	
_____ MCDPS APPROVAL OF THIS REQUEST, EXPIRES ONE YEAR FROM THE DATE IT WAS ISSUED. IF THE REQUEST AND NOT OF APPROVAL, THE PERMIT MUST BE EXTENDED	

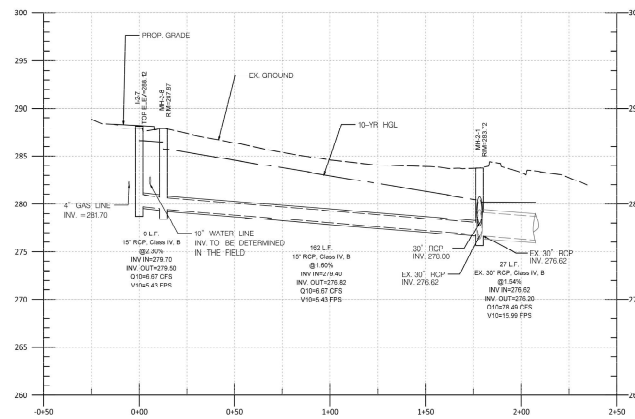
FRANKLIN AVENUE
SIDEWALK
STORM DRAIN PLAN

SCALE :

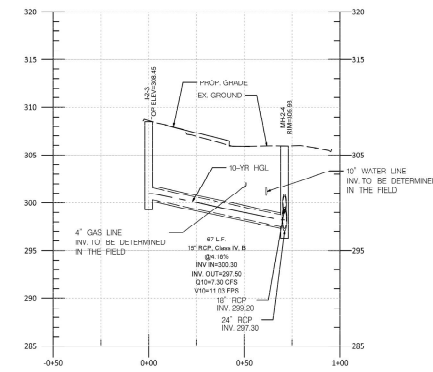
SD-05



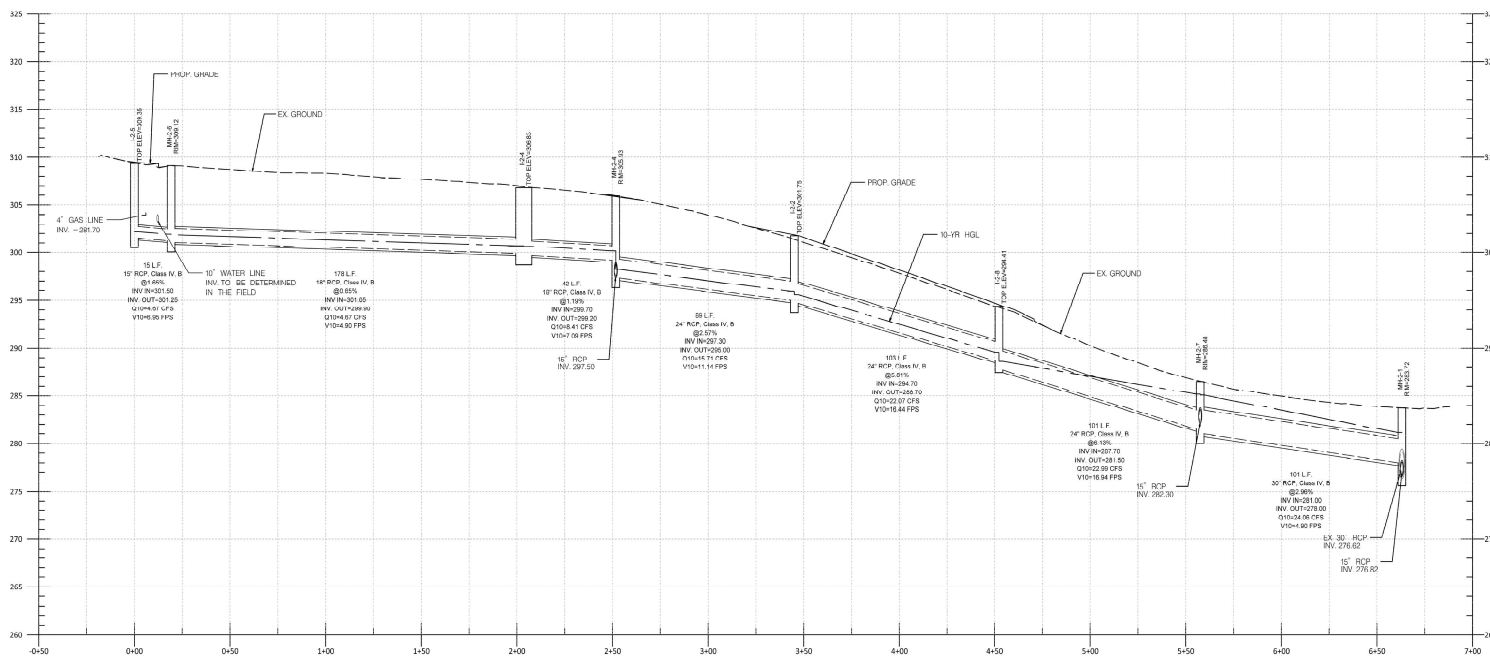
I-1-1 to EX-I-1-1



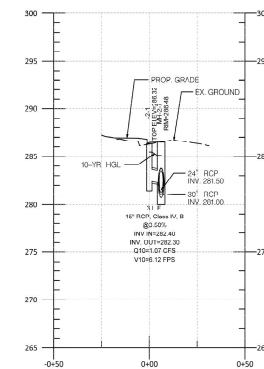
I-2-7 to MH-2-1



I-2-3 to MH-2-4



I-2-5 to MH-2-1



I-2-1 to MH-2-7

NOTE
THE WATER AND GAS LINES SHOWN ON THE PROFILES INDICATE THE LOCATIONS ONLY. THE
INVERTS OF THOSE UTILITIES NEED BE MEASURED AND VERIFIED BY SURVEY ENGINEERS IN THE
FIELD, AND THE INVERTS/DEPTH SHALL BE UPDATED ON THE PROFILES ONCE AVAILABLE.



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GANTHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief Design Section
APPROVED
Chief Division of Transportation Engineering
Designed by
Drawn by
Checked by

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:
Stormwater Management

Reviewed Date
Approved Date
Approved Date

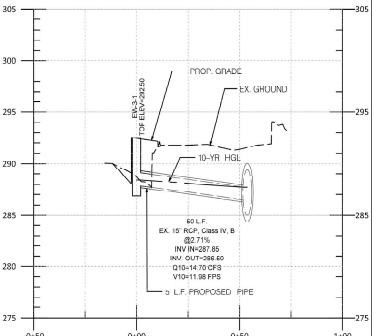
NOTE: MCDPS APPROVAL DOES
NOT NEGATE THE NEED OF
A MCDPS ACCESS PERMIT.

Administrative Requirements
Reviewed Date
Approved Date

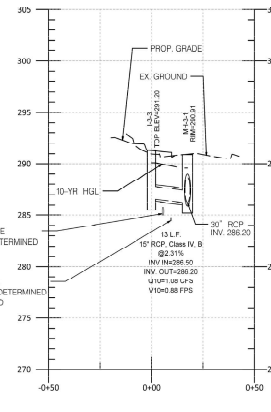
FRANKLIN AVENUE
SIDEWALK
STORM DRAIN PROFILE

SCALE: HORIZ. 1"=30'; VERT. 1"=5'

DP-01

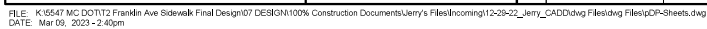


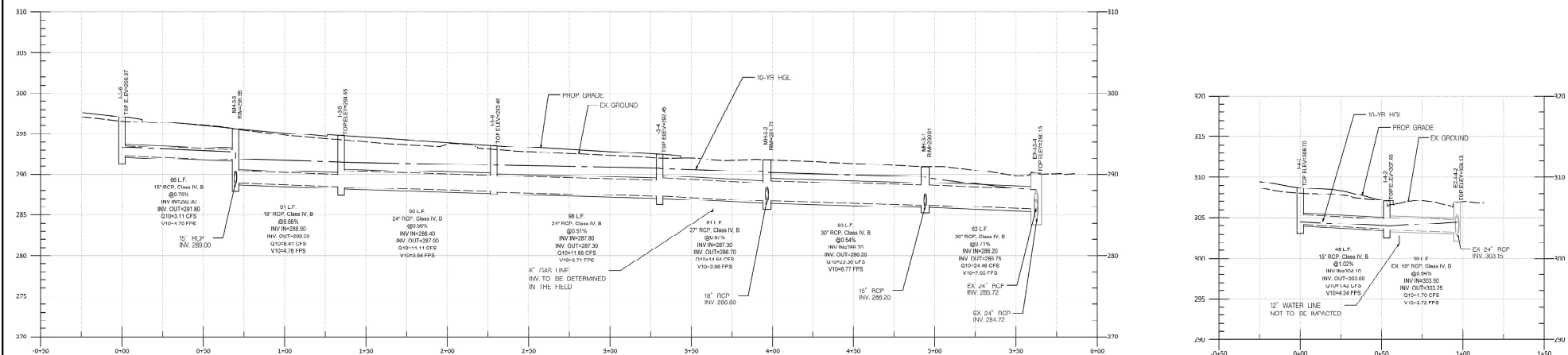
EW-3-1 to 54" PIPE



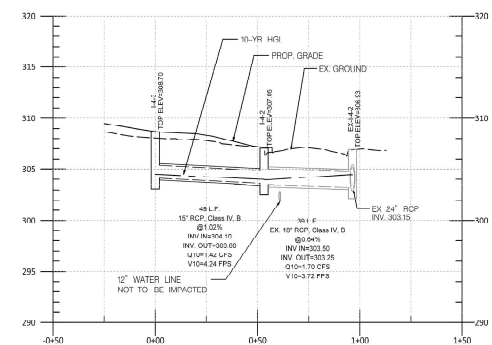
I-3-3 to MH-3-1

DP-02





I-3-6 to EX-I-3-4 I-4-3 to EX-I-4-2



I-4-3 to EX-I-4-2

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No.	MATERIAL	DATE	REV	

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Transportation Engineering

Chief, Division of Transportation Engineering

MONTGOMERY COUNTY

DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

viewed

proved

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF

Administrative Requirements:

Reviewed	Date
----------	------

REGULATED CONTRACTS, PERA ET AL.

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 103–110

IN NOT APPROVAL OF THE PLANNING BOARD ONE YEAR FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED

FRANKLIN AVENUE
SIDEWALK
DRAINAGE DETAILS

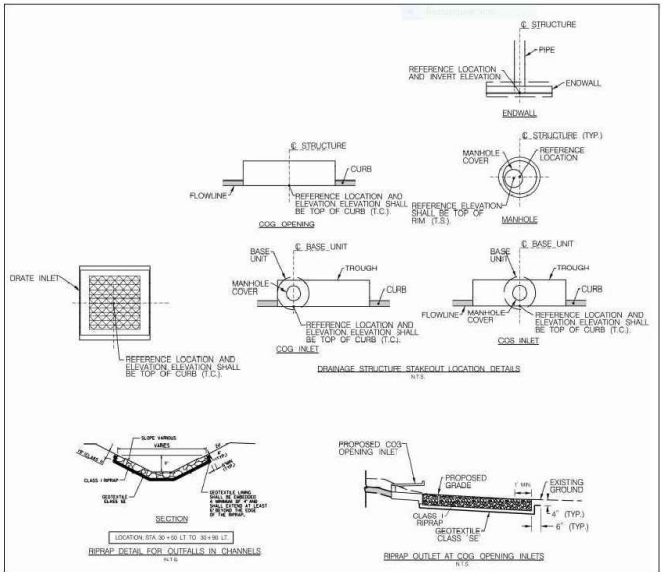
SCALE : HOR:1"=30'; VERT:1"=5'

DP-03

STRUCTURE NO	TYPE	BASELINE	STATION	OFFSET	L'VRT	INV. OUT	STANDARD	STRUCTURE DEPTH	TOP ELEV*
I-1-1	STD 15" TYPE "B" INLET	FRANKLIN AVE	1+79.2	12.2	LT	256.20	MC 502.01	4.15	260.35
I-1-2	STD 15" TYPE "A" INLET	FRANKLIN AVE	2+66.50	12.2	LT	256.30	MC 501.01	3.60	259.60
MH-2-1	72" DIA PRECAST MANHOLE	FRANKLIN AVE	15+61.1	14.63	LT	276.32	MD 384.05	7.10	283.72
I-2-1	STD TRIPLE VWR INLET	FRANKLIN AVE	16+69.4	11	LT	282.40	MD 374.08	3.92	286.32
I-2-2	STD 20" REVERSE TYPE "B" INLET	FRANKLIN AVE	18+60	10.8	LT	294.70	MC 502.02	7.05	301.75
MH-2-4	60" DIA PRECAST MANHOLE	FRANKLIN AVE	19+74.5	5.9	LT	297.30	MD 384.03	6.63	305.93
I-2-3	STD 20" TYPE "B" INLET	FRANKLIN AVE	19+96.60	73.6	LT	300.30	MC 502.01	8.15	308.45
I-2-4	STD TRIPLE VWR INLET	FRANKLIN AVE	20+22.1	12.1	LT	296.70	MD 374.08	7.13	306.83
MH-2-6	STD TYPE "B" 48" SQ. MANHOLE	FRANKLIN AVE	22+06.2	12.5	LT	301.35	MC 515.01	8.07	309.12
I-2-6	CUSTOM 15" COG INLET	FRANKLIN AVE	22+06.2	19.2	LT	301.50	—	7.85	309.35
I-2-6	5" AND 10" COG OPENING	FRANKLIN AVE	15+56.6	21	LT	—	MD 374.68	—	283.86
I-2-7	STD 20" TYPE "B" INLET	FRANKLIN AVE	13+95.90	11.3	LT	276.70	MC 502.01	8.42	288.12
MH-2-7	60" DIA PRECAST MANHOLE	FRANKLIN AVE	16+66.2	5.1	LT	281.30	MD 384.03	5.48	286.48
MH-2-8	STD TYPE "B" 48" SQ. MANHOLE	FRANKLIN AVE	13+95.90	5.3	LT	279.40	MC 515.01	8.47	287.87
I-2-8	STD 10" REVERSE TYPE "B" INLET	FRANKLIN AVE	17+71.85	12.3	LT	287.70	MC 502.02	6.71	294.41
I-3-1	5" AND 10" COG OPENING	FRANKLIN AVE	30+61.4	15.3	LT	—	MD 374.68	—	292.62
EW-3-1	STD TYPE "C" ENDWALL	FRANKLIN AVE	30+78.4	23.25	LT	287.85	MD 354.01	—	292.80
I-3-2	CUSTOM 10" COG INLET	FRANKLIN AVE	32+60.5	16	LT	286.20	—	4.40	290.60
I-3-3	CUSTOM 10" COG INLET	FRANKLIN AVE	33+47.70	11.1	LT	286.50	—	4.70	291.20
MH-3-1	60" DIA PRECAST MANHOLE	FRANKLIN AVE	33+47.90	4.1	LT	286.20	MD 384.03	4.71	290.91
MH-3-2	60" DIA PRECAST MANHOLE	FRANKLIN AVE	34+46.5	3.5	LT	286.70	MD 384.03	5.05	291.75
I-3-4	STD 10" REVERSE TYPE "B" INLET	FRANKLIN AVE	35+11	11.1	LT	287.30	MC 502.02	5.16	292.46
I-3-5	STD 10" REVERSE TYPE "B" INLET	FRANKLIN AVE	37+07.4	12.8	LT	288.40	MC 502.02	6.25	294.65
MH-3-5	60" DIA PRECAST MANHOLE	FRANKLIN AVE	37+07.4	13.1	LT	288.40	MD 384.03	6.65	295.55
I-3-6	STD 10" REVERSE TYPE "B" INLET	FRANKLIN AVE	38+43.1	14.3	LT	292.30	MC 502.02	4.67	296.97
I-3-7	STD REVERSE 20" TYPE "B" INLET	FRANKLIN AVE	37+94.9	54.8	LT	290.31	MC 502.02	6.99	297.30
MH-3-7	STD TYPE "A" 48" DIA. MANHOLE	FRANKLIN AVE	34+48.8	66.9	LT	287.30	MC 510.01	5.90	293.20
I-3-8	STD 20" TYPE "B" INLET	FRANKLIN AVE	34+66.2	70.2	LT	287.50	MC 502.01	6.30	293.80
MH-3-8	STD TYPE "A" 48" DIA. MANHOLE	FRANKLIN AVE	30+13.6	22.35	RT	289.50	MC 510.01	4.53	294.03
I-3-9	STD 10" REVERSE TYPE "B" INLET	FRANKLIN AVE	36+13.05	11.1	LT	287.30	MC 502.02	5.66	293.46
MH-3-9	STD TYPE "A" 48" DIA. MANHOLE	FRANKLIN AVE	29+69.2	5.4	LT	289.30	MC 510.01	4.35	294.25
MH-3-10	STD TYPE "B" 48" SQ. MANHOLE	FRANKLIN AVE	28+78.3	9.4	LT	290.35	MC 515.01	7.78	296.43
I-3-10	STD 20" REVERSE TYPE "B" INLET	FRANKLIN AVE	26+87.7	11.1	LT	301.50	MC 502.02	4.72	306.22
I-3-11	STD 10" TYPE "B" INLET	FRANKLIN AVE	34+34.8	68	LT	289.20	MC 502.01	4.80	293.80
I-3-12	CUSTOM 10" COG INLET	FRANKLIN AVE	28+78.8	15.98	LT	291.10	—	7.53	296.63
I-4-1	STD TYPE "K" INLET (W/ CURB OPENING FOR FLOW IN)	FRANKLIN AVE	41+69.4	19.3	LT	297.50	MD 378.11	3.60	301.10
I-4-2	STD 5" TYPE "B" INLET	FRANKLIN AVE	44+24.9	17	LT	303.50	MC 502.01	3.55	307.05
I-4-3	CUSTOM 10" COG INLET	FRANKLIN AVE	44+78.3	15.5	LT	304.10	—	4.50	308.60
CO 4-1	STD CURB OPENING	FRANKLIN AVE	41+69.5	11.1	LT	—	MD 640.02	—	—

FROM	TO	SIZE (IN)	TYPE	LENGTH (L.F.)
I-1-1	I-1-2	15	ROP CLASS IV	82
I-2-5	MH-2-6	15	ROP CLASS IV	15
MH-2-6	I-2-4	18	ROP CLASS IV	179
I-2-4	MH-2-4	18	ROP CLASS IV	42
I-2-3	MH-2-4	15	ROP CLASS IV	67
MH-2-4	I-2-2	24	ROP CLASS IV	89
I-2-2	I-2-8	24	ROP CLASS IV	103
I-2-1	MH-2-7	15	ROP CLASS IV	3
I-2-7	MH-2-8	15	ROP CLASS IV	9
MH-2-8	MH-2-1	15	ROP CLASS IV	162
MH-2-7	MH-2-1	30	ROP CLASS IV	101
I-2-8	MH-2-7	24	ROP CLASS IV	101
I-3-7	MH-3-5	15	ROP CLASS IV	40
MH-3-5	I-3-5	18	ROP CLASS IV	61
I-3-6	MH-3-5	15	ROP CLASS IV	66
I-3-5	I-3-9	24	ROP CLASS IV	90
I-3-4	MH-3-2	27	ROP CLASS IV	61
I-3-8	MH-3-7	18	ROP CLASS IV	11
MH-3-7	MH-3-2	18	ROP CLASS IV	59
MH-3-2	MH-3-1	30	ROP CLASS IV	93
I-3-3	MH-3-1	15	ROP CLASS IV	13
MH-3-1	EW-3-1	30	ROP CLASS IV	63
EW-3-1	—	15	ROP CLASS IV	5
I-3-10	MH-3-10	15	ROP CLASS IV	187
I-3-9	I-3-4	24	ROP CLASS IV	99
MH-3-10	MH-3-9	18	ROP CLASS IV	117
MH-3-9	MH-3-8	18	ROP CLASS IV	24
MH-3-8	EW-MH-3-1	24	ROP CLASS IV	37
I-3-11	MH-3-7	15	ROP CLASS IV	12
I-3-12	MH-3-10	15	ROP CLASS IV	17
I-4-3	I-4-2	15	ROP CLASS IV	49

**ONLY 5 FEET PIPE DOWNSTREAM OF EW 3-1 IS PROPOSED FOR THE EXTENSION OF THE EX, 15" PIPE.



EW- ENDWALL
I- INLET
MH- MANHOLE
PP- PERVIOUS CONCRETE
CO- STD CURB OPENING (MD 640.02)
WGO- CURB CUT FOR ESDV FLOW (SDTA 621.41)

NOTE:
1,THE DOWNSTREAM OF I-3-1 IS A RIPRAP LINED DITCH.
SEE THE PLAN FOR THE DETAILS.
2.GEOTEXTILE SHALL BE EMBEDDED A MINIMUM OF 4" AND SHALL
EXTEND AT LEAST 6" BEYOND THE EDGE OF RIPRAP (TYPICAL).



					OWNER/ADDRESS:
					DEPARTMENT OF TRANSPORTATION
					100 EDISON PARK DRIVE
					GANTHERSBURG, MARYLAND
					CONTACT:
					DIVISION OF TRANSPORTATION ENGINEERING
					CONSTRUCTION SECTION
					240-777-7210
					DESIGN SECTION
					240-777-7221
NO.	REVISION	DATE	BY		

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
Chief, Design Section	Date	
APPROVED		
Chief, Division of Transportation Engineering	Date	
Designed by	Drawn by	Checked by

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management	
Reviewed	Date
Approved	Date
Sediment Control Technical Requirements	
Reviewed	Date
Approved	Date
Utility	

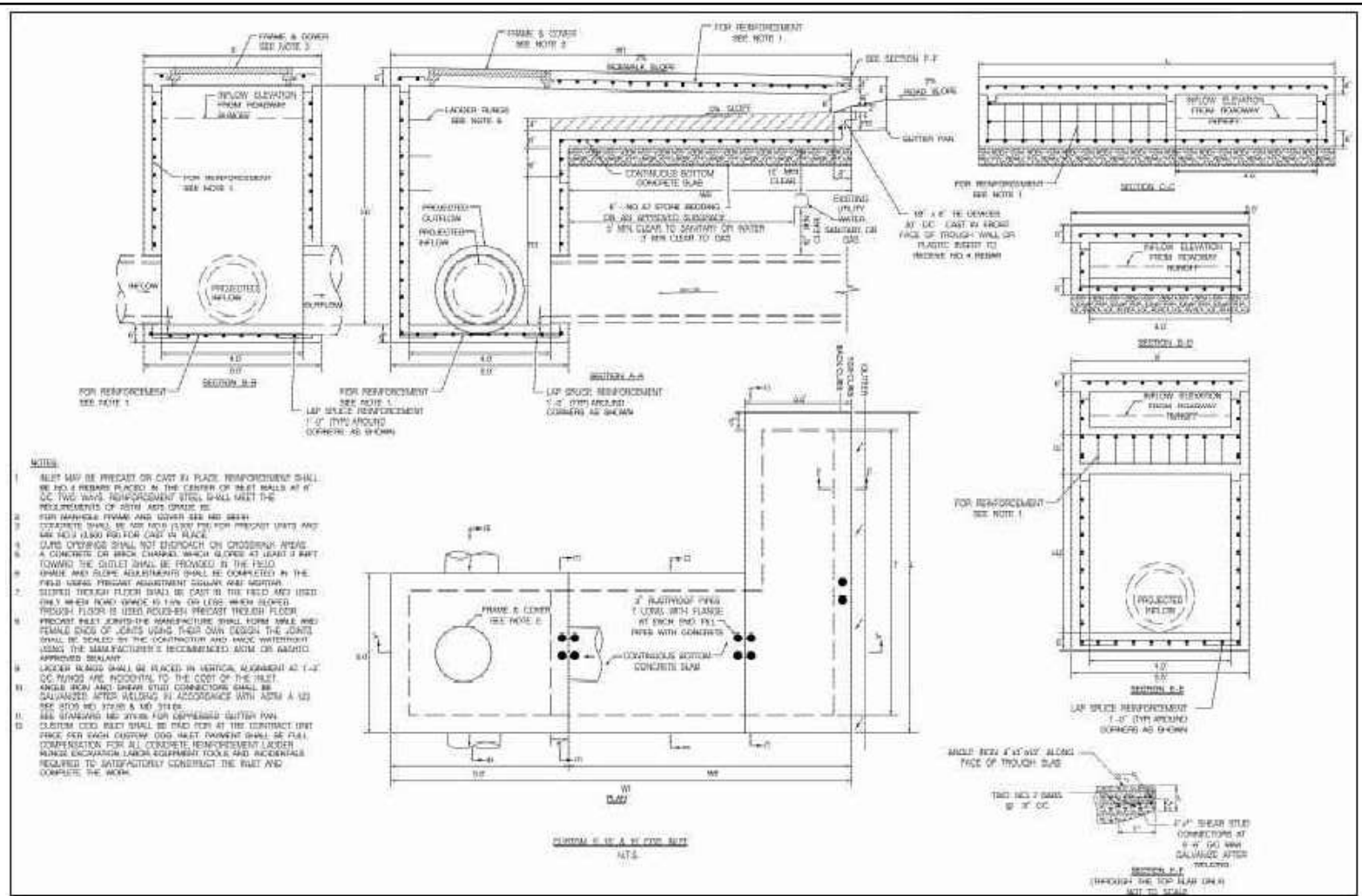
NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT	
Administrative Requirements	
Reviewed	Date
Approved	Date

FRANKLIN AVENUE
SIDEWALK
DRAINAGE DETAILS

SCALE: AS SHOWN

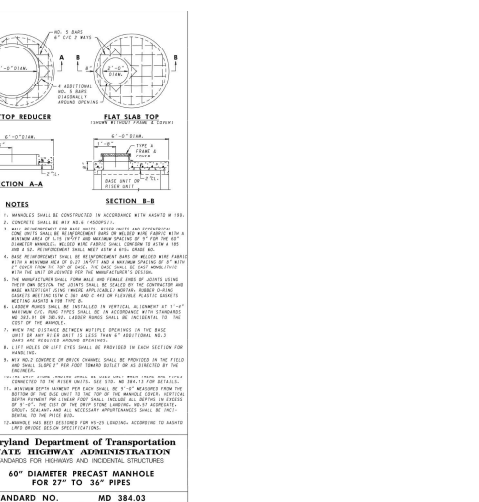
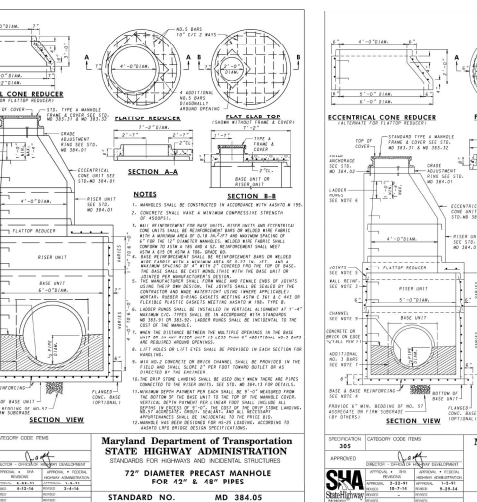
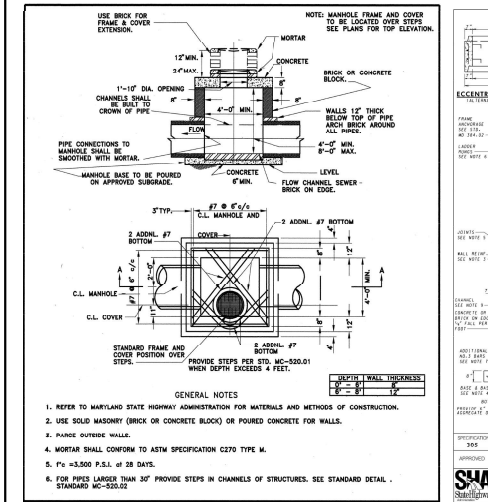
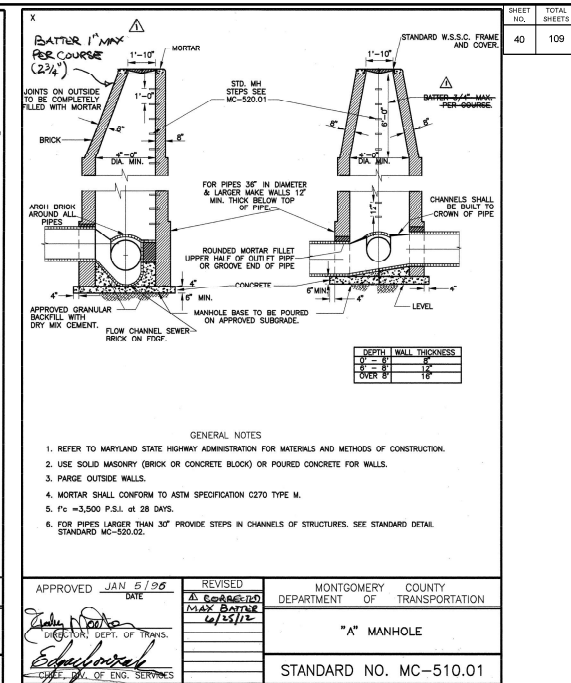
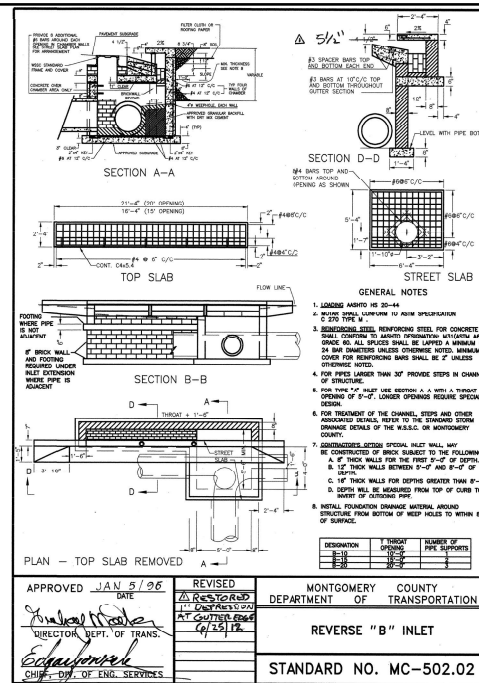
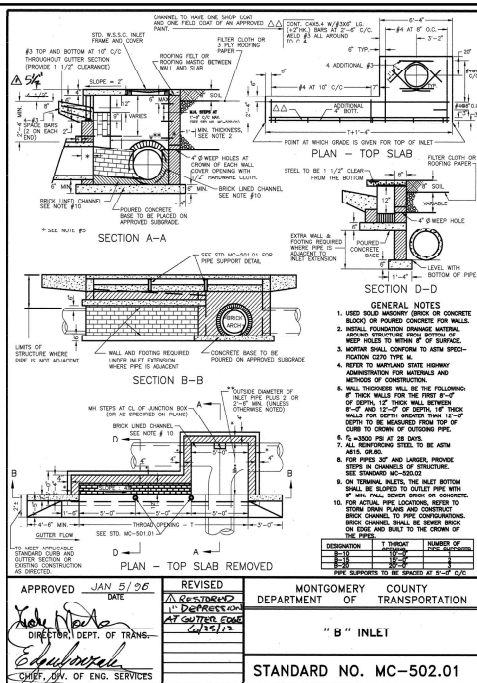
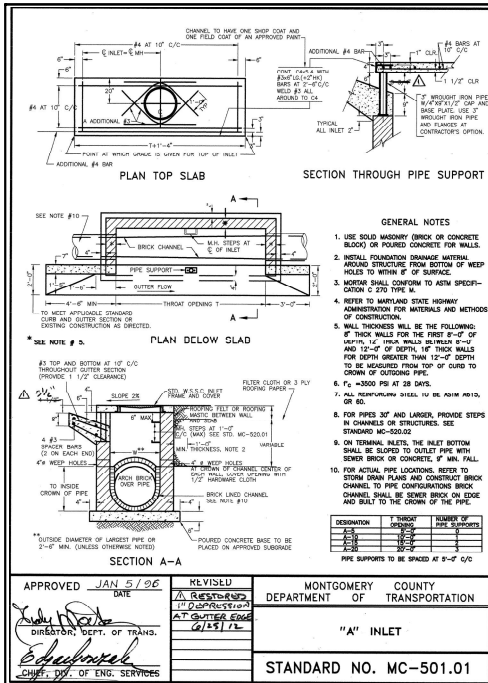
DD-01

Project No.: 180 of 180

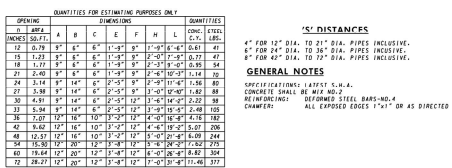


STRUCTURE NO	T(FT)	L(FT)	W1(FT)	W2(FT)	H1(FT)	H2(FT)	H3(IN)	STRUCTURE DEPTH
I-2-5	15	16	15	10	7.75	5.17	6.40	7.95
I-3-2	10	11	11.7	6.7	4.18	1.73	5.61	4.45
I-3-3	10	11	13.2	8	4.61	2.11	5.92	4.85
I-3-12	10	11	16	11	7.48	4.86	6.64	7.66
I-4-3	10	11	8	3	4.26	1.96	4.72	4.60

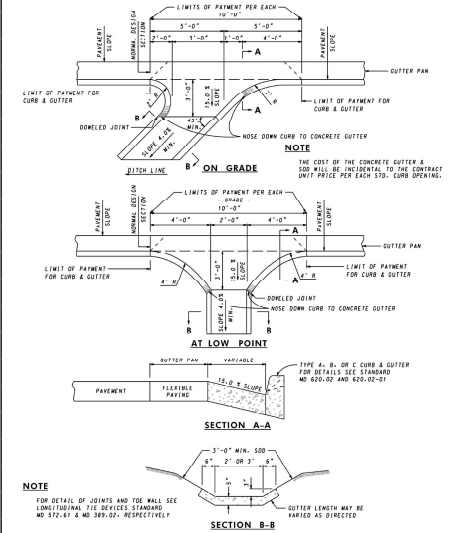
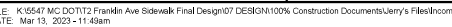
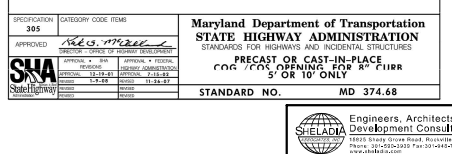
Engineers, Architects Development Consultants 1800 Sandy Spring Road, Rockville, MD 20850 Phone: 301-477-7210 Fax: 301-477-7221 www.shegala.com NO. _____ REVISION _____ DATE _____ BY _____	CUSTOMER ADDRESS: DEPARTMENT OF TRANSPORTATION 100 EDSON PARK DRIVE GAITHERSBURG, MARYLAND CONTACT: DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-7210 DESIGN SECTION 240-777-7221	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND RECOMMENDED FOR APPROVAL: Chief, Design Section _____ Date _____ Chief, Division of Transportation Engineering _____ Date _____ Designed by _____ Drawn by _____ Checked by _____	MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR: Stormwater Management _____ Sediment Control Technical Requirements _____ Administrative Requirements _____	NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT Reviewed _____ Date _____ Approved _____ Date _____	FRANKLIN AVENUE SIDEWALK DRAINAGE DETAILS SCALE: AS SHOWN DD-02
	SEE TITLE SHEET FOR SIGNATURES				
	Project No. _____				
	FILE: K:\6547 MC DOT12 Franklin Ave Sidewalk Final Design\07 DESIGN\100% Construction Documents\Jerry's Files\Incoming\12-09-22_Jerry_CADD\3d\3d File\3d\3d-Details.dwg DATE: Mar 13, 2023 - 11:05am				



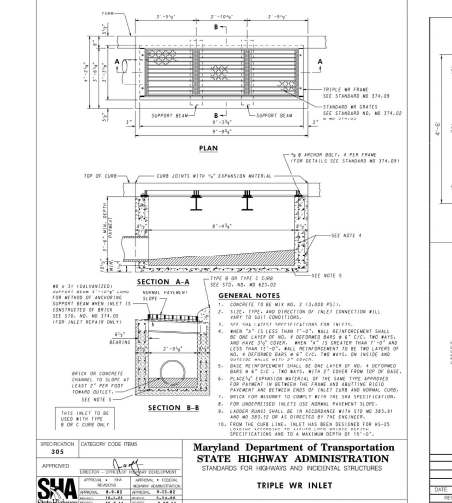
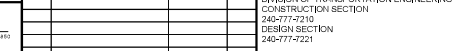
APPROVED JAN 5/96 DATE DIRECTOR, DEPT. OF TRANS. CHIEF, DIV. OF ENG. SERVICES	REVISOR DATE DIRECTOR, DEPT. OF TRANS. CHIEF, DIV. OF ENG. SERVICES	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION "B" MANHOLE STANDARD NO. MC-515.01	OWNER/ADDRESS: DEPARTMENT OF TRANSPORTATION 100 EDSON PARK DRIVE GAITHERSBURG, MARYLAND CONTACT: DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-7210 DESIGN SECTION 240-777-7221	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-7210 DESIGN SECTION 240-777-7221	MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR: Stormwater Management Sediment Control Technical Requirements Reviewed Date Approved Date	NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT. Administrative Requirements Reviewed Date Approved Date	FRANKLIN AVENUE SIDEWALK DRAINAGE DETAILS SCALE: AS SHOWN DD-03
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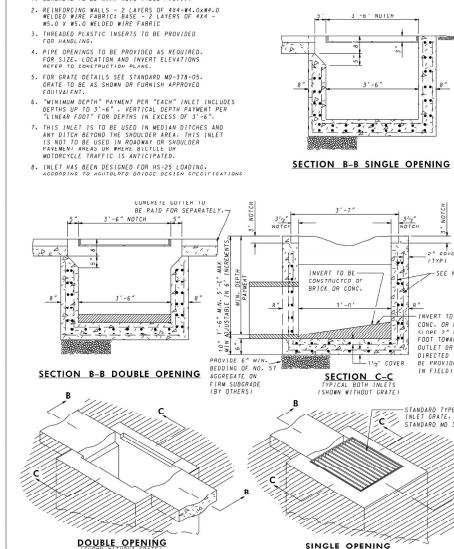
SPECIFICATION 305	CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES STANDARD TYPE C ENDWALL METAL OR CONCRETE ROUND PIPE STANDARD NO. MD 354.01
APPROVED <i>Kel G. Mallon</i> <u>Kel G. Mallon, Director</u>	DATE OF REVIEW 12-1-84	
APPROVAL - SUB 12-1-84	APPROVAL - GENERAL 12-1-84	
APPROVAL - SPECIAL 12-1-84	APPROVAL - SPECIAL 12-1-84	



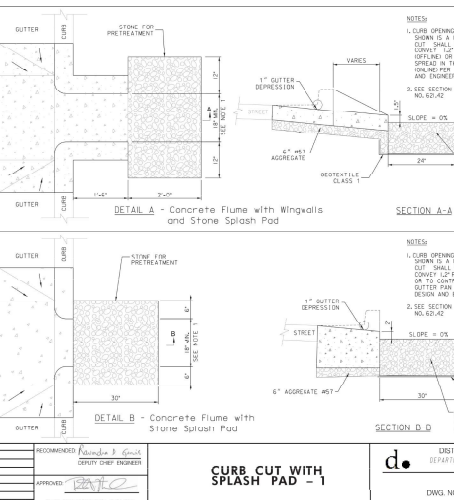
IDENTIFICATION 602	CATEGORY CODE (ITEMS)	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES		
APPROVED  Doug M. Murrell Director, Office of Highway Development		STANDARD CURB OPENING DETAILS FOR COMBINATION CURB & GUTTER		
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> SHA State Highway Administration APPROVAL: ☒ STATE APPROVAL: ☒ FEDERAL DATES: 10-1-82 REVISION: 1-1-84 REVISION: _____ REVISION: _____ </td> <td style="width: 50%; vertical-align: top;"> APPROVAL: ☒ FEDERAL APPROVAL: ☒ STATE DATES: 1-1-84 REVISION: _____ REVISION: _____ </td> </tr> </table>		SHA State Highway Administration APPROVAL: ☒ STATE APPROVAL: ☒ FEDERAL DATES: 10-1-82 REVISION: 1-1-84 REVISION: _____ REVISION: _____	APPROVAL: ☒ FEDERAL APPROVAL: ☒ STATE DATES: 1-1-84 REVISION: _____ REVISION: _____	STANDARD NO. MD 640.02
SHA State Highway Administration APPROVAL: ☒ STATE APPROVAL: ☒ FEDERAL DATES: 10-1-82 REVISION: 1-1-84 REVISION: _____ REVISION: _____	APPROVAL: ☒ FEDERAL APPROVAL: ☒ STATE DATES: 1-1-84 REVISION: _____ REVISION: _____			

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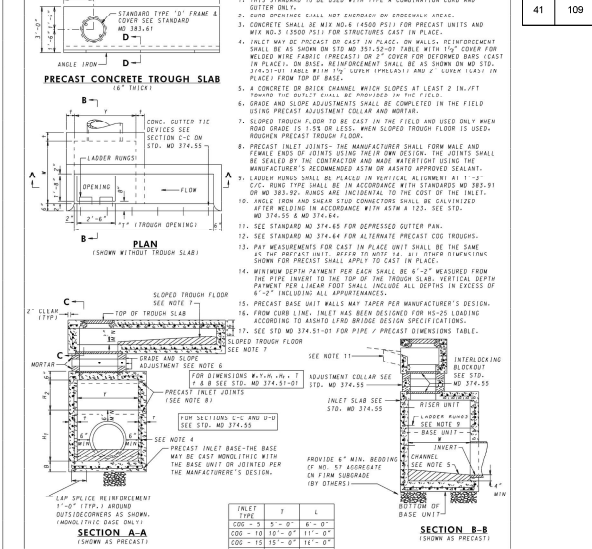
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APPROVED SHA State Highway DIRECTOR - "CONCEPTS OF HOW DEVELOPMENT"	APPROVALS APPROVED 10-1-01 RECEIVED 10-7-14 DESIGN REVISIONS 10-1-01 RECEIVED 10-7-14 FEDERAL HIGHWAY ADMINISTRATION APPROVALS 10-1-01 RECEIVED 10-7-14
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND RECOMMENDED FOR APPROVAL _____ Chief, Design Section _____ Chief, Division of Transportation Engineering	MONTGOMERY COUNTY PERMITTING SERVICE Stormwater Management _____ Reviewed _____ Date _____ _____ Approved _____ Date _____
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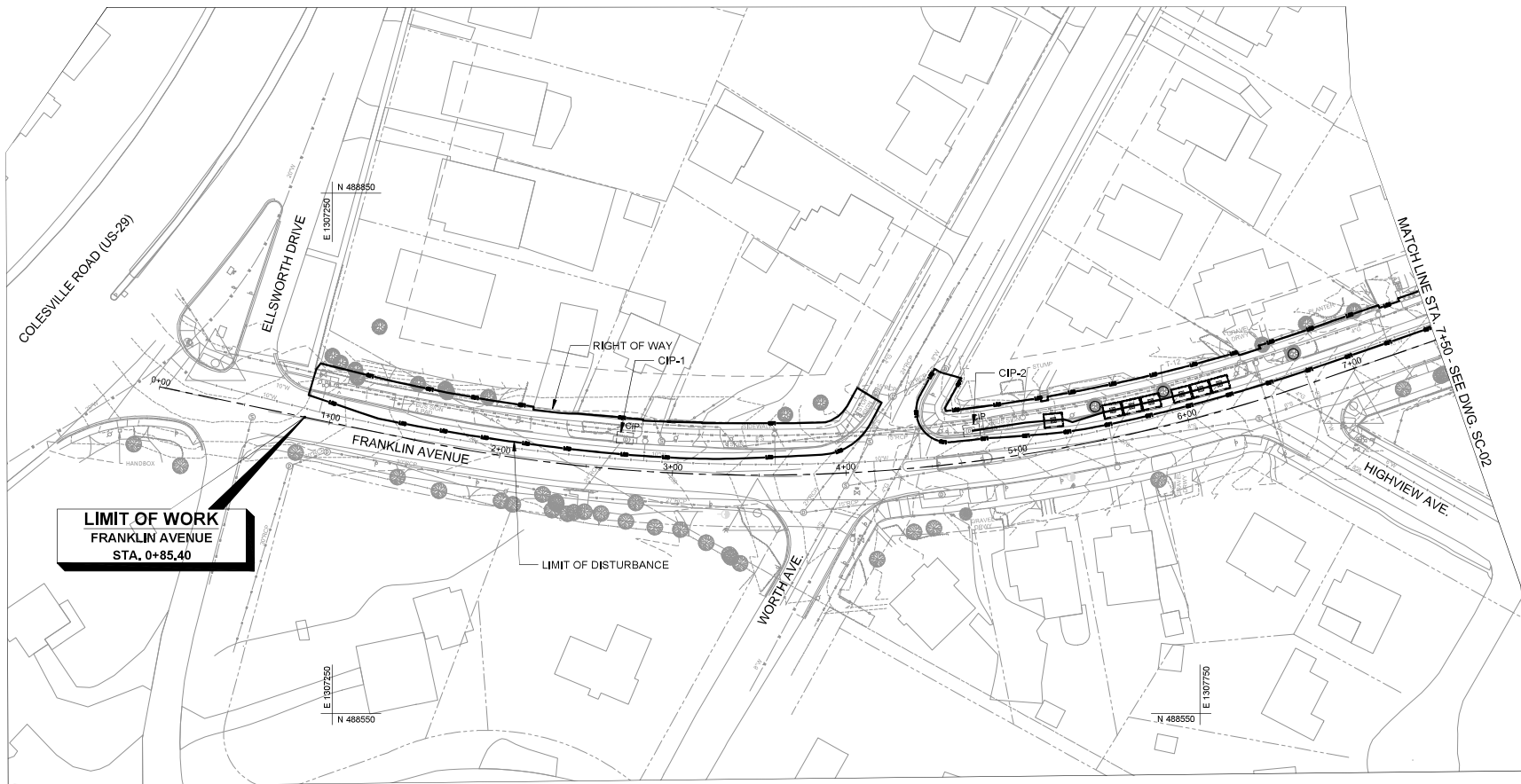


SPECIFICATION 305	CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15' & 20'
APPROVED 	 DIRECTOR - OFFICE OF PROJECT DEVELOPMENT APPROVAL - DIST. ENGINEER REVIEWING APPROVAL - 3-22-81 REVIEWING - 2-2-81 DESIGNED - 10-7-74 CHECKED - 9-29-74	STANDARD NO. MD 374.51



APPROVAL OF APPROVED FOR: (Seal and Contact Technical Requirements)		NOTE: MCOPI'S APPROVAL DOES NOT NEGATE THE NEED FOR A MCOPI'S ACCESS PERMIT Administrative Requirements: Reviewed _____ Date _____ Approved _____ Date _____ (MCOPI'S PROJECT NO. ONLY)		FRANKLIN AVENUE SIDEWALK DRAINAGE DETAILS	
(NEED APPROVAL OF MCOPI'S APPROVAL FOR THE PROJECT TO BE COMPLETED)		SCALE: AS SHOWN		DD-04	





NOTES

1. NO SEDIMENT LADEN RUNOFF SHALL LEAVE THE WORK AREA UNLESS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICES.
2. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
3. THE CONTRACTOR SHOULD PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE AS NEEDED AND THE LOCATION SHOULD BE APPROVED BY EROSION AND SEDIMENT CONTROL INSPECTOR.
4. SEE THE GENERAL NOTES SHEET FOR THE SEQUENCE OF CONSTRUCTION OF PHASE 1.

CURB INLET PROTECTION(CIP)		
CIP-1	STA. 2+69.2, 17.1 LT	1 EA
CIP-2	STA. 4+75.2, 18.1 LT	1 EA

LEGEND

- LOD — LIMIT OF DISTURBANCE
- TREE PROTECTION FENCE
- CIP CURB INTET PROTECTION
- SIP STANDARD INLET PROTECTION
- TSOS TEMPORARY STONE OUTLET STRUCTURE

0 30 60
SCALE: 1" = 30'



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

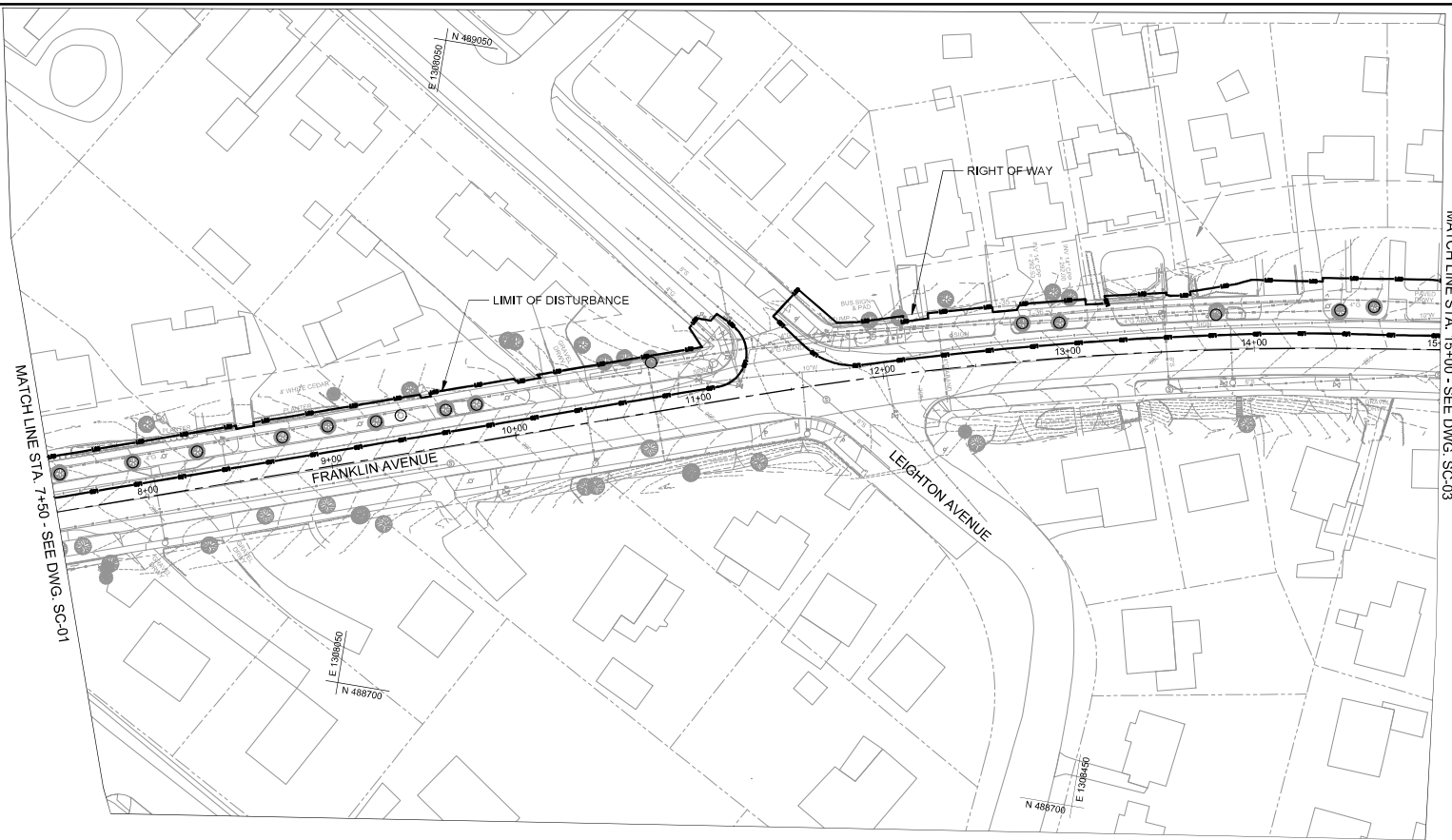
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief Design Section APPROVED	Date
Chief Division of Transportation Engineering	Date
Designed by	Drawn by
Checked by	

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
Stormwater Management	Sediment Control Technical Requirements
Reviewed Date	Reviewed Date
Approved Date	Approved Date
DATE	

NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT	
Administrative Requirements	
Reviewed	Date
MONTGOMERY COUNTY, MD	
MONTGOMERY COUNTY, MD	

FRANKLIN AVENUE SIDEWALK EROSION & SEDIMENT CONTROL PLAN PHASE I

SCALE: SC-01
Project No.: 180-42 of 109



- NOTES
1. NO SEDIMENT LADEN RUNOFF SHALL LEAVE THE WORK AREA UNLESS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICES.
 2. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
 3. THE CONTRACTOR SHOULD PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE AS NEEDED AND THE LOCATION SHOULD BE APPROVED BY EROSION AND SEDIMENT CONTROL INSPECTOR.
 4. SEE THE GENERAL NOTES SHEET FOR THE SEQUENCE OF CONSTRUCTION OF PHASE 1.

LEGEND

- LOD — LIMIT OF DISTURBANCE
- TREE PROTECTION FENCE
- CIP CURB INTET PROTECTION
- SIP STANDARD INLET PROTECTION
- TSOS TEMPORARY STONE OUTLET STRUCTURE

0 30 60
SCALE: 1" = 30'

SHELADIA
Engineers, Architects
Development Consultants
18950 Sandy Stone Road, Rockville, MD 20850
Phone: 301-477-2220 Fax: 301-477-1771
www.sheladia.com

NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by _____ Drawn by _____ Checked by _____

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management

Reviewed _____ Date _____

Approved _____ Date _____

Sediment Control Technical Requirements

Reviewed _____ Date _____

Approved _____ Date _____

NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT

Administrative Requirements

Reviewed _____ Date _____

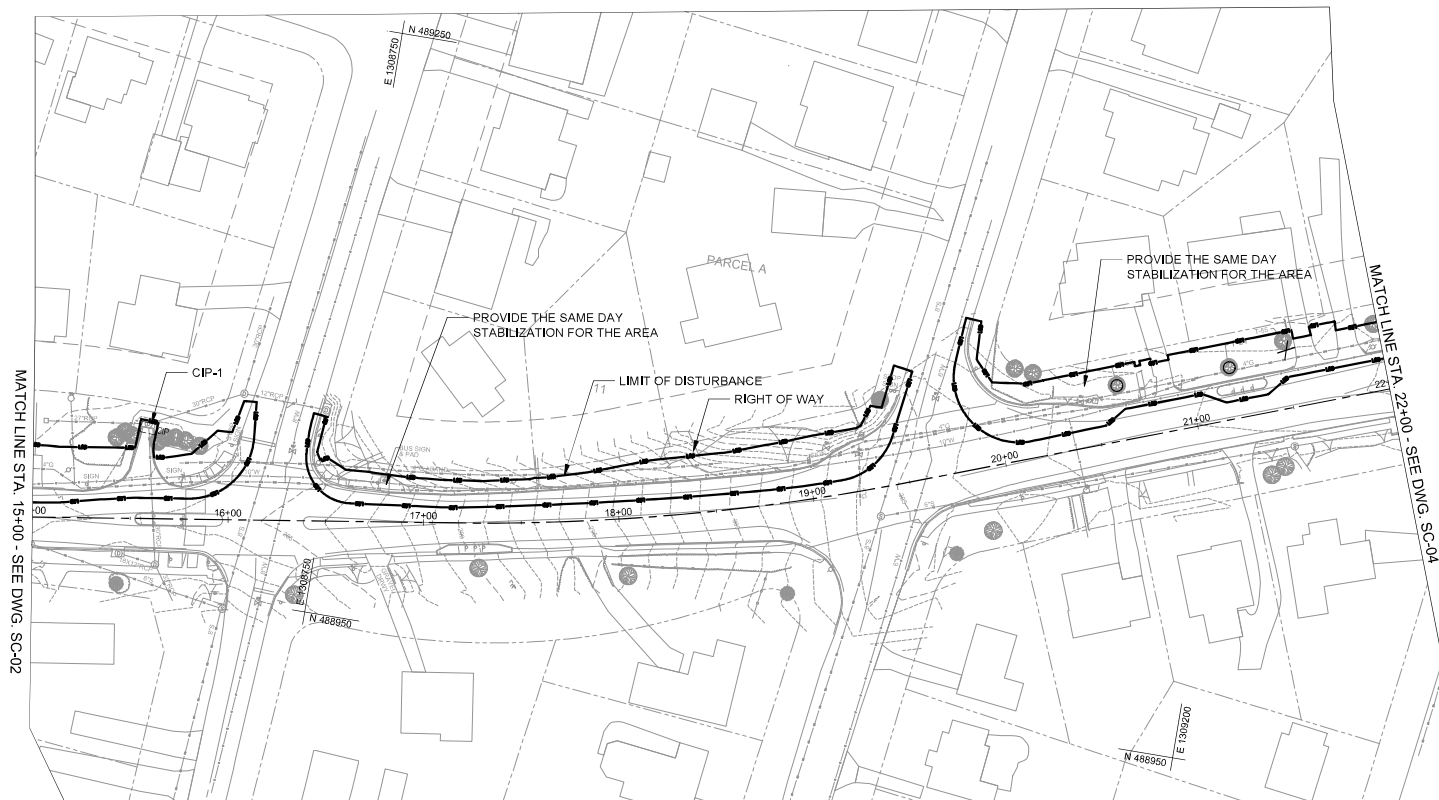
Approved _____ Date _____

FRANKLIN AVENUE SIDEWALK EROSION & SEDIMENT CONTROL PLAN PHASE I

SCALE: _____

Project No.: _____

Sheet No.: **SC-02**



NOTES

1. NO SEDIMENT LADEN RUNOFF SHALL LEAVE THE WORK AREA UNLESS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICES.
2. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
3. THE CONTRACTOR SHOULD PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE AS NEEDED AND THE LOCATION SHOULD BE APPROVED BY EROSION AND SEDIMENT CONTROL INSPECTOR.
4. SEE THE GENERAL NOTES SHEET FOR THE SEQUENCE OF CONSTRUCTION OF PHASE 1.

CURB INLET PROTECTION(CIP)		
CIP-1	STA. 15+56.9, 45.2' LT	1 EA

LEGEND

- LOD — LIMIT OF DISTURBANCE
- TREE PROTECTION FENCE
- CIP CURB INTET PROTECTION
- SIP STANDARD INLET PROTECTION
- TSOS TEMPORARY STONE OUTLET STRUCTURE

0 30 60
SCALE: 1" = 30'



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL:

Chief Design Section
APPROVED: _____ Date: _____

Chief Division of Transportation Engineering
APPROVED: _____ Date: _____

Designed by: _____ Drawn by: _____ Checked by: _____

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

Sediment Control Technical Requirements:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

DATE: _____

NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT

Administrative Requirements:

Reviewed: _____ Date: _____

APPROVED: JERRY C. JERRY, CC

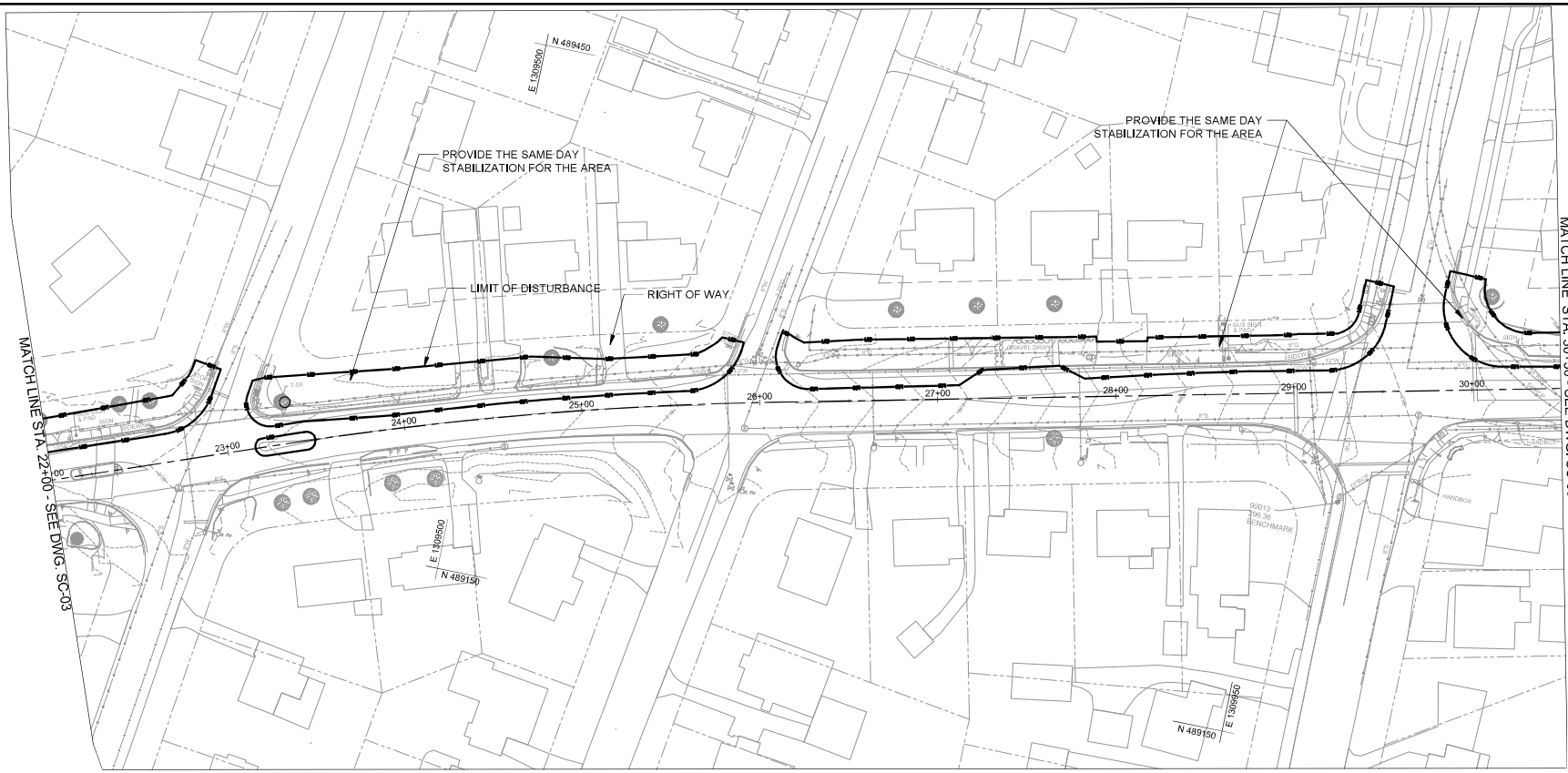
APPROVED: _____ DATE: _____

**FRANKLIN AVENUE
SIDEWALK
EROSION & SEDIMENT CONTROL PLAN
PHASE I**

SCALE: _____ SC-03

Project No.: 180-44 of 100

SHEET NO.	TOTAL SHEETS
45	109



- NOTES
1. NO SEDIMENT LADEN RUNOFF SHALL LEAVE THE WORK AREA UNLESS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICES.
 2. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
 3. THE CONTRACTOR SHOULD PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE AS NEEDED AND THE LOCATION SHOULD BE APPROVED BY EROSION AND SEDIMENT CONTROL INSPECTOR.
 4. SEE THE GENERAL NOTES SHEET FOR THE SEQUENCE OF CONSTRUCTION OF PHASE 1.

LEGEND

— LOD — LIMIT OF DISTURBANCE

TREE PROTECTION FENCE

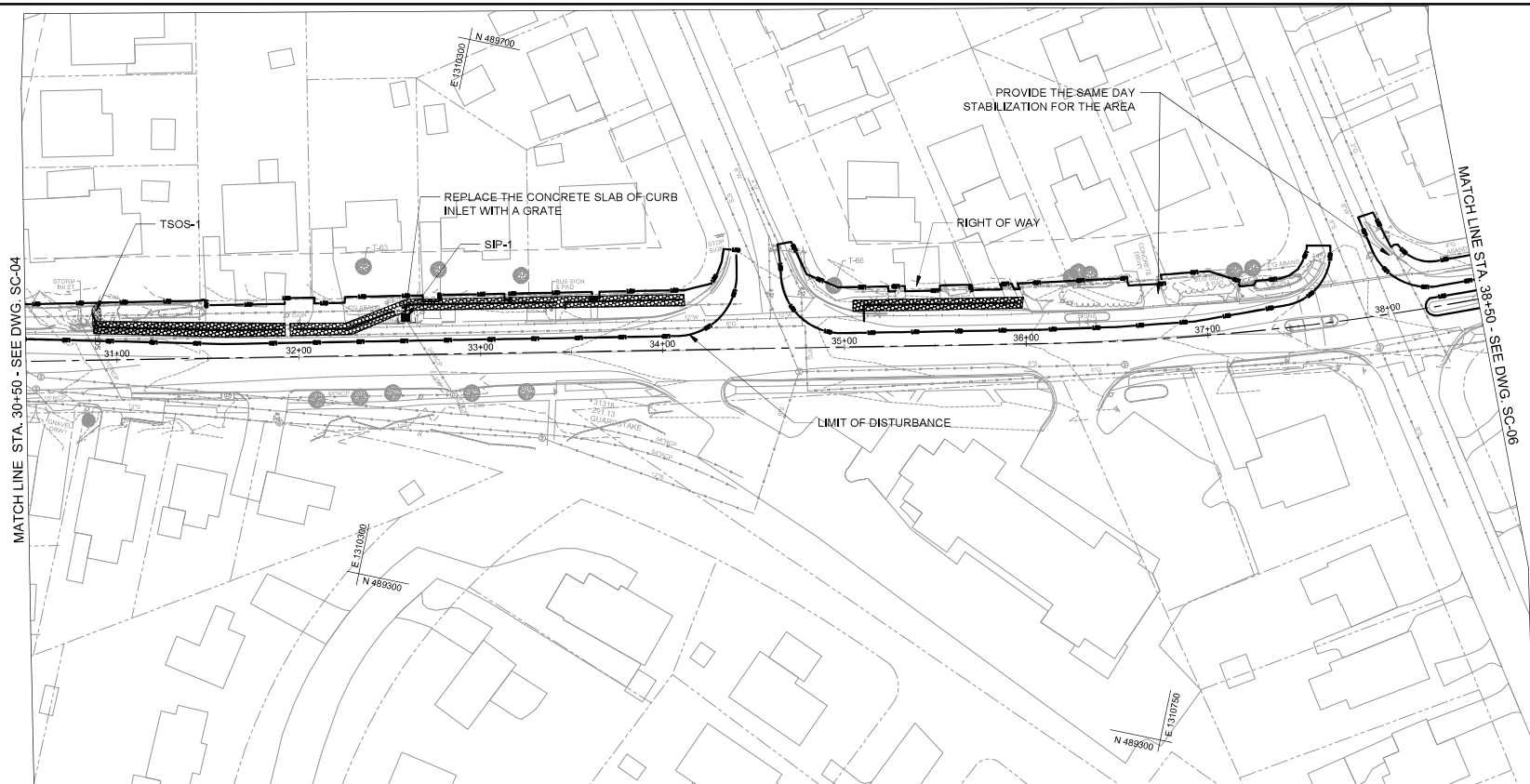
CIP CURB INTET PROTECTION

SIP STANDARD INLET PROTECTION

TSOS TEMPORARY STONE OUTLET STRUCTURE

		OWNER/ADDRESS: DEPARTMENT OF TRANSPORTATION 100 EDSON PARK DRIVE GAITHERSBURG, MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR: Stormwater Management: _____ Sediment Control Technical Requirements: _____		NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT. Administrative Requirements: Reviewed: _____ Date: _____ Approved: _____ Date: _____	FRANKLIN AVENUE SIDEWALK EROSION & SEDIMENT CONTROL PLAN PHASE I	SCALE: _____ Project No.: _____ of _____
		CONTACT: DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-7210 DESIGN SECTION 240-777-7221	RECOMMENDED FOR APPROVAL: Chief, Design Section: _____ Date: _____ Chief, Division of Transportation Engineering: _____ Date: _____ Designed by: _____ Drawn by: _____ Checked by: _____	APPROVED: Reviewed: _____ Date: _____ Approved: _____ Date: _____					

SHEET NO.	TOTAL SHEETS
46	109



NOTES

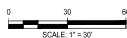
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4. SEE THE GENERAL NOTES SHEET FOR THE SEQUENCE OF CONSTRUCTION OF PHASE 1.

STANDARD INLET PROTECTION(SIP)		
SIP-1	STA. 32+59.0, 20.7' LT	1 EA

TEMP. STONE OUTLET PROTECTION(TSOS)		
TSOS-1	STA. 30+39.0, 23.5' LT	1 EA

LEGEND

- LOD — LIMIT OF DISTURBANCE
- TREE PROTECTION FENCE
- CIP CURB INLET PROTECTION
- SIP STANDARD INLET PROTECTION
- TSOS TEMPORARY STONE OUTLET STRUCTURE



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL:

Chief, Design Section
APPROVED: _____ Date: _____

Chief, Division of Transportation Engineering
APPROVED: _____ Date: _____

Designed by: _____ Drawn by: _____ Checked by: _____

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

Sediment Control Technical Requirements:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

QUALITY:

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT.

Administrative Requirements:

Reviewed: _____ Date: _____

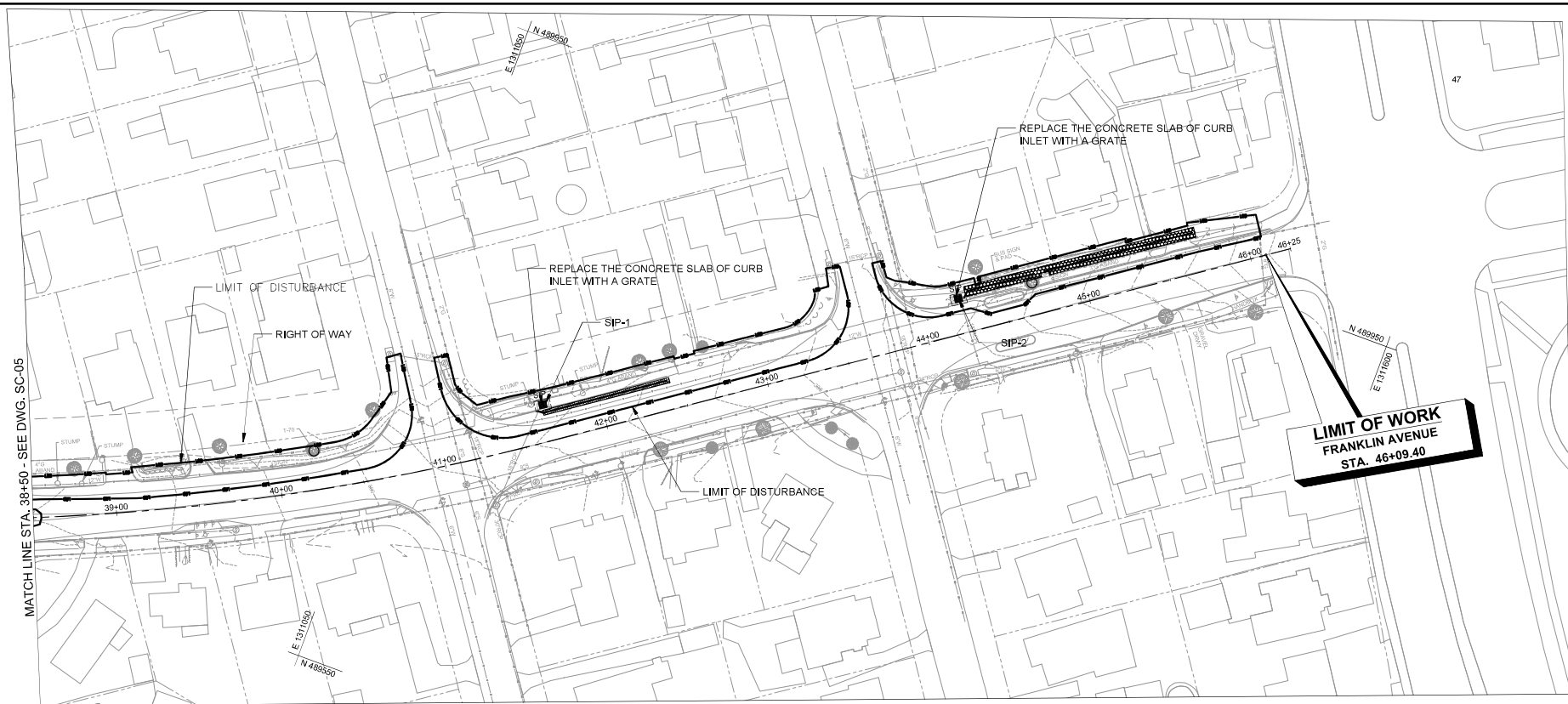
APPROVED: _____

**FRANKLIN AVENUE
SIDEWALK
EROSION & SEDIMENT CONTROL PLAN
PHASE I**

SCALE: _____

Project No.: _____ of _____

SC-05



NOTES

1. NO SEDIMENT LADEN RUNOFF SHALL LEAVE THE WORK AREA UNLESS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICES.
2. EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
3. THE CONTRACTOR SHOULD PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE AS NEEDED AND THE LOCATION SHOULD BE APPROVED BY EROSION AND SEDIMENT CONTROL INSPECTOR.
4. SEE THE GENERAL NOTES SHEET FOR THE SEQUENCE OF CONSTRUCTION OF PHASE 1.

STANDARD INLET PROTECTION(SIP)		
SIP-1	STA, 41+15.9, 22.4' LT	1 EA
SIP-2	STA, 44+23.7, 21.3 LT	1 EA

LEGEND

- LOD ——— LIMIT OF DISTURBANCE
-  TREE PROTECTION FENCE
-  CIP CURB INLET PROTECTION
-  SIP STANDARD INLET PROTECTION
-  TSOS TEMPORARY STONE OUTLET STRUCTURE

0 30 60
SCALE: 1" = 30'

 **Engineers, Architects**
Development Consultants
1895 Sandy Stone Road, Rockville, MD 20850
Phone: 301-477-2200 Fax: 301-477-2201
www.sheldons.com

NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
242-777-7210
DESIGN SECTION
242-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief Design Section
APPROVED _____ Date _____

Chief Division of Transportation Engineering
APPROVED _____ Date _____

Designed by _____ Drawn by _____ Checked by _____

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management

Reviewed _____ Date _____

Approved _____ Date _____

Sediment Control Technical Requirements

Reviewed _____ Date _____

Approved _____ Date _____

NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT

Administrative Requirements

Reviewed _____ Date _____

Approved _____ Date _____

**FRANKLIN AVENUE
SIDEWALK
EROSION & SEDIMENT CONTROL PLAN
PHASE I**

SCALE: _____ SC-06

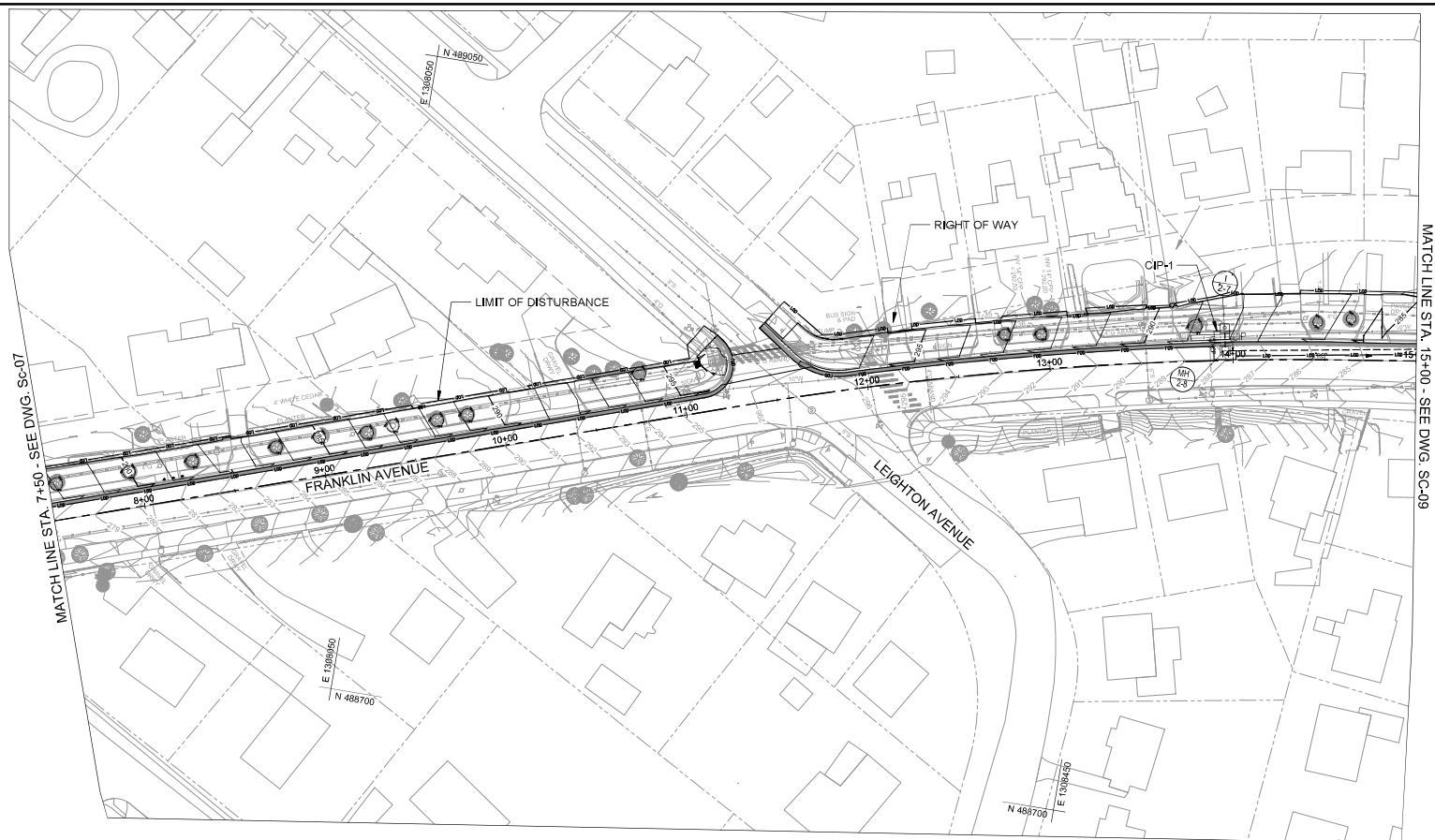
Project No.: _____ of _____

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4. SEE THE GENERAL NOTES SHEET FOR THE SEQUENCE OF CONSTRUCTION OF PHASE 2.
5. THE CONTRACTOR SHALL INSTALL INLET PROTECTIONS AT THE SAME DAY THAT INLETS BECOME FUNCTIONAL.
6. EROSION AND SEDIMENT CONTROL MEASURES SHOWN IN GREY ARE INSTALLED UNDER PHASE I SHALL BE KEPT AND MAINTAINED AS LONG AS POSSIBLE.

CURB/STANDARD INLET PROTECTION(CIP/SIP)		
CIP-1	STA. 2+66.5, 12.20 LT	1 EA
CIP-2	STA. 1+75, 12.20 LT	1 EA

	LOD	LIMIT OF DISTURBANCE
		TREE PROTECTION FENCE
	CIP	CURB INTET PROTECTION
	SIP	STANDARD INLET PROTECTION
	TSOS	TEMPORARY STONE OUTLET STRUCTURE

[illegible]



- NOTES
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CURB INLET PROTECTION(CIP)		
CIP-1	STA. 13+95,90, 11,30 LT	1 EA

LEGEND

- LOD — LIMIT OF DISTURBANCE
- TREE PROTECTION FENCE
- CIP CURB INLET PROTECTION
- SIP STANDARD INLET PROTECTION
- TSOS TEMPORARY STONE OUTLET STRUCTURE



NO.	REVISION	DATE	BY

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED _____ Date _____

Chief, Division of Transportation Engineering
APPROVED _____ Date _____

Designed by _____ Drawn by _____ Checked by _____

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management

Reviewed _____ Date _____

Approved _____ Date _____

Sediment Control Technical Requirements

Reviewed _____ Date _____

Approved _____ Date _____

NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT

Administrative Requirements

Reviewed _____ Date _____

APPROVED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION

FRANKLIN AVENUE SIDEWALK EROSION & SEDIMENT CONTROL PLAN PHASE II

SCALE: _____

Project No.: _____

Sheet No.: _____ of _____

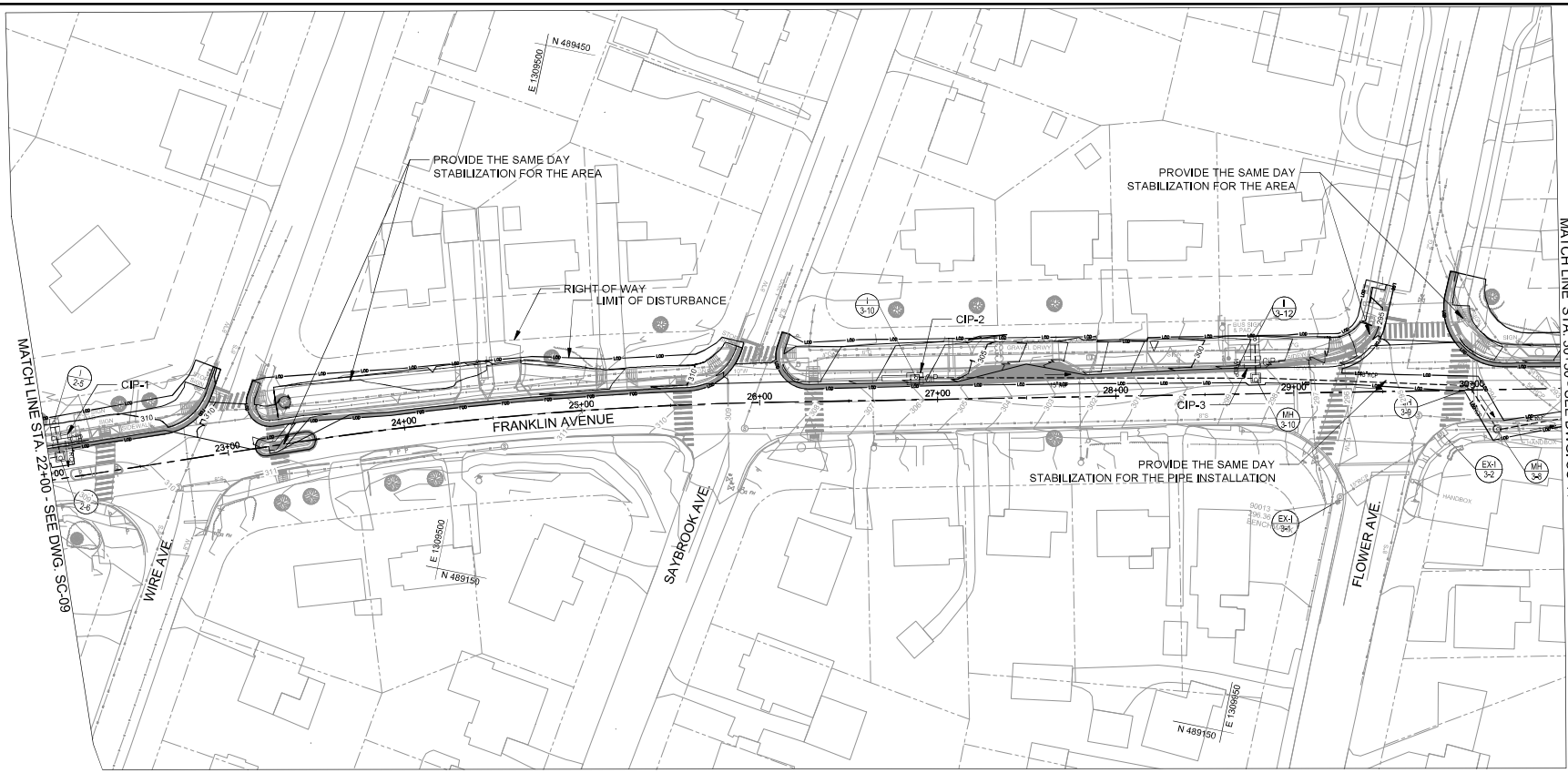
SC-08

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LEGEND

— L00 —	LIMIT OF DISTURBANCE
	TREE PROTECTION FENCE
 CIP	CURB INTET PROTECTION
 SIP	STANDARD INLET PROTECTION
 TSOS	TEMPORARY STONE OUTLET STRUCTURE

FILE: K:\5547 MC DOT\T2 Franklin Ave Sidewalk Final Design\07 DESIGN\100% Construction Documents\Jerry's Files\Incoming\12-29-22_Jerry_CADD\dwg Files\dwg Files\pE8-Phase II Sheet.dwg
DATE: Mar 15, 2023 - 10:36am



- NOTES
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CURB INLET PROTECTION(CIP)		
CIP-1	STA. 22+06.2, 19.2' LT	1 EA
CIP-2	STA. 26+87.7, 11.0' LT	1 EA
CIP-3	STA. 28+78.3, 15.98' LT	1 EA

LEGEND

— LOD — LIMIT OF DISTURBANCE

○ TREE PROTECTION FENCE

□ CIP CURB INTET PROTECTION

□ SIP STANDARD INLET PROTECTION

TSOS TEMPORARY STONE OUTLET STRUCTURE

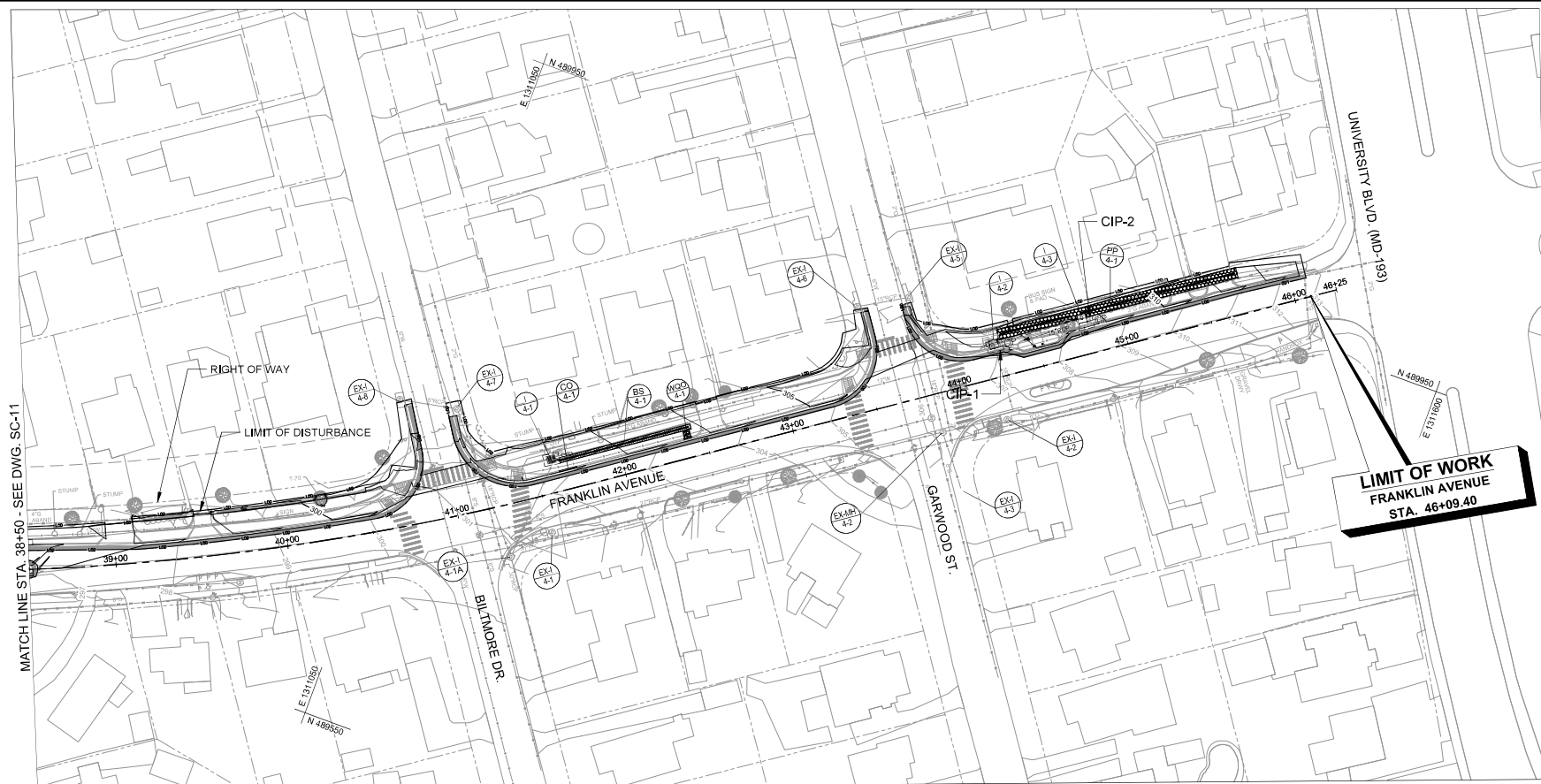
 Engineers, Architects Development Consultants 1895 Sandy Stone Road, Rockville, MD 20850 Phone: 301-477-2220 Fax: 301-477-2221 www.sheldons.com	NO. REVISION DATE BY	OWNER/ADDRESS: DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND	CONTACT: DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-7210 DESIGN SECTION 240-777-7221	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	RECOMMENDED FOR APPROVAL: Chief, Design Section APPROVED: _____ Date: _____ Chief, Division of Transportation Engineering APPROVED: _____ Date: _____ Designed by: _____ Drawn by: _____ Checked by: _____	MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR: Stormwater Management: Reviewed: _____ Date: _____ Approved: _____ Date: _____ OVI/1111	Sediment Control Technical Requirements: Reviewed: _____ Date: _____ Approved: _____ Date: _____	NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT. Administrative Requirements: Reviewed: _____ Date: _____ APPROVED: _____ MONTGOMERY COUNTY, MARYLAND DEPARTMENT OF TRANSPORTATION CONSTRUCTION SECTION 240-777-7210	FRANKLIN AVENUE SIDEWALK EROSION & SEDIMENT CONTROL PLAN PHASE II	SCALE: _____	SC-10

1. NO SEDIMENT LADEN RUNOFF SHALL LEAVE THE WORK AREA UNLESS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICES.
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LEGEND

	LIMIT OF DISTURBANCE
	TREE PROTECTION FENCE
	CURB INLET PROTECTION
	STANDARD INLET PROTECTION
	TEMPORARY STONE OUTLET STRUCTURE

FILE: K:\547 MC DOT\T2 Franklin Ave Sidewalk Final Design\07 DESIGN\100% Construction Documents\Jerry's Files\Incoming\12-28-22_Jerry_CADD\dwg Files\dwg Files\ES-Phase II Sheet.dwg
DATE: Mar 15, 2023 - 10:37am



NOTES

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CURB INLET PROTECTION(CIP)		
CIP-1	STA, 44+24.9, 17.03' LT	1 EA
CIP-2	STA, 44+78.31, 15.50' LT	1 EA

LEGEND

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- TREE PROTECTION FENCE
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NO.	REVISION	DATE	BY

OWNER/ADDRESS:
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100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL:

Chief Design Section
APPROVED: _____ Date: _____

Chief Division of Transportation Engineering
APPROVED: _____ Date: _____

Designed by: _____ Drawn by: _____ Checked by: _____

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

Sediment Control Technical Requirements:

Reviewed: _____ Date: _____

Approved: _____ Date: _____

NOTE: MDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MDCPS ACCESS PERMIT.

Administrative Requirements:

Reviewed: _____ Date: _____

APPROVED: _____

FRANKLIN AVENUE
SIDEWALK
EROSION & SEDIMENT CONTROL PLAN
PHASE II

SCALE: _____ SC-12

Project No.: _____ of _____

STANDARD EROSION AND SEDIMENT CONTROL NOTES

1. THE PERMITEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE DEPARTMENT, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN THEM OR THEIR REPRESENTATIVE, THEIR ENGINEER AND AN AUTHORIZED REPRESENTATIVE OF THE DEPARTMENT.

2. THE PERMITEE MUST OBTAIN INSPECTION AND APPROVAL BY DPS AT THE FOLLOWING POINTS:

A. AT THE REQUIRED PRE-CONSTRUCTION MEETING.

B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRIOR TO ANY OTHER LAND DISTURBING ACTIVITY.

C. DURING THE INSTALLATION OF A SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN), NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY.

D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).

E. PRIOR TO FINAL ACCEPTANCE.

3. THE PERMITEE SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE. SHALL HAVE THEM INSPECTED AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES. AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM THE DEPARTMENT.

4. THE PERMITEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARE(S). ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) SHALL BE REMOVED IMMEDIATELY.

5. THE PERMITEE SHALL INSPECT PERIODICALLY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION. ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE DEPARTMENT. THE PERMITEE IS RESPONSIBLE FOR IMMEDIATELY REPAIRING OR REPLACING ANY SEDIMENT CONTROL MEASURES WHICH HAVE BEEN DAMAGED OR REMOVED BY THE PERMITEE OR ANY OTHER PERSON.

6. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1 HORIZONTAL TO 1 VERTICAL (3:1); AND

B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING. ALL AREAS DISTURBED OUTSIDE OF THE PERMITEE SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED AND STABILIZED IMMEDIATELY. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

7. THE PERMITEE SHALL APPLY SOD, SEED, AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN FIFTY (50) FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPT FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.

8. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE PERMITEE SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS WITH REQUIRED SOIL AMENDMENTS AND TOPSOIL, USING SOD OR AN APPROVED PERMANENT SEED MIXTURE AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHEN THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT, WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY. AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15.

9. THE SITE PERMIT, WORK, MATERIALS, APPROVED SC/SM PLANS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MONTGOMERY COUNTY.

10. SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO LOWER THE WATER DOWN SLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED. AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.

11. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN 3 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.

12. SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITH PERMISSION OF THE DEPARTMENT, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.

13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS OR ON RESIDENTIAL LOTS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NONMAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOWMAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.

14. THE PERMITEE SHALL INSTALL A SPLASHBLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED BY A DRAIN LINE TO AN ACCEPTABLE OUTLET.

15. FOR FINISHED GRADING, THE PERMITEE SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS, WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL.

16. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A BUILDING WHICH IS EXISTING OR UNDER CONSTRUCTION. NO BUILDING MAY BE CONSTRUCTED WITHIN 20 FEET OF A SEDIMENT TRAP OR BASIN.

17. ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMS INSTALLED AT THE TIME OF BASE PAVING ESTABLISHMENT.

18. THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, AS DEEMED NECESSARY.

19. ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.

20. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

21. SEDIMENT TRAP(S)/BASIN(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE POINT OF ONE-HALF (1/2) THE WET STORAGE DEPTH OF THE TRAP/BASIN (1/4 THE WET STORAGE DEPTH FOR ST-MI) OR WHEN REQUIRED BY THE SEDIMENT CONTROL INSPECTOR.

22. SEDIMENT REMOVED FROM TRAPS/BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN.

23. ALL SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE SAFETY FENCE. THE FENCE MUST BE AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THE TWO INCHES IN WIDTH AND FOUR INCHES IN HEIGHT, WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.

24. NO EXCAVATION IN THE AREAS OF EXISTING UTILITIES IS PERMITTED UNLESS THEIR LOCATION HAS BEEN DETERMINED. CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK.

25. OFF-SITE SPILL OR BORROW AREAS MUST HAVE PRIOR APPROVAL BY DPS.

26. SEDIMENT TRAP/BASIN DEWATERING FOR CLEANOUT OR REPAIR MAY ONLY BE DONE WITH THE DPS INSPECTOR'S PERMISSION. THE INSPECTOR MUST APPROVE THE DEWATERING METHOD FOR EACH APPLICATION. THE FOLLOWING METHODS MAY BE CONSIDERED:

A. PUMP DISCHARGE MAY BE DIRECTED TO ANOTHER ON-SITE SEDIMENT TRAP OR BASIN, PROVIDED IT IS OF SUFFICIENT VOLUME AND THE PUMP INTAKE IS FLOATED TO PREVENT AGITATION OR SUCTION OF DEPOSITED SEDIMENTS; OR

B. THE PUMP INTAKE MAY UTILIZE A REMOVABLE PUMPING STATION AND MUST DISCHARGE INTO AN UNDISTURBED AREA THROUGH A NON-EROSIVE OUTLET; OR

C. THE PUMP INTAKE MAY BE FLOATED AND DISCHARGE INTO A DIRT BAG (12 OZ, NONWOVEN FABRIC), OR APPROVED EQUIVALENT, LOCATED IN AN UNDISTURBED BUFFER AREA. REMEMBER: DEWATERING OPERATION AND METHOD MUST HAVE PRIOR APPROVAL BY THE DPS INSPECTOR.

27. THE PERMITEE MUST NOTIFY THE DEPARTMENT OF ALL UTILITY CONSTRUCTION ACTIVITIES WITHIN THE PERMITTED LIMITS OF DISTURBANCE PRIOR TO THE COMMENCEMENT OF THOSE ACTIVITIES.

28. TOPSOIL MUST BE APPLIED TO ALL PERVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS.

SEQUENCE OF CONSTRUCTION

A. STANDARD WORDING FOR INITIAL STEPS OF THE SEQUENCE OF CONSTRUCTION ON SEDIMENT CONTROL PLANS FOR SITES EXEMPT FROM THE FOREST CONSERVATION LAW.

1. PRIOR TO CLEARING OF TREES, INSTALLING SEDIMENT CONTROL MEASURES OR GRADING, A PRECONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES SEDIMENT CONTROL INSPECTOR (240) 777-0311 (48 HOURS NOTICE). THE OWNERS REPRESENTATIVE, AND THE SITE ENGINEER, IN ORDER FOR THE MEETING TO OCCUR, THE APPLICANT MUST PROVIDE ONE PAPER SET OF APPROVED SEDIMENT CONTROL PLANS TO THE MCDCPS SEDIMENT CONTROL INSPECTOR AT THE PRECONSTRUCTION MEETING. IF NO PLANS ARE PROVIDED, THE MEETING SHALL NOT OCCUR AND WILL NEED TO BE RESCHEDULED PRIOR TO COMMENCING ANY WORK.

2. THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.

3. CLEAR AND GRADE FOR INSTALLATION OF SEDIMENT CONTROL DEVICES.

4. INSTALL SEDIMENT CONTROL DEVICES, TRAPS AND BASINS SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTION OF ANY EARTH DIKES THAT CONVEY DRAINAGE TO A TRAP AND/OR BASIN.

5. ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITEE MUST OBTAIN WRITTEN APPROVAL FROM THE MCDCPS INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRUBBING, OR GRADING.

PHASE I- CLEARING AND GRUBBING

1. THE PERMITEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY.

2. CLEAR AND GRUB THE AREAS FOR THE CONSTRUCTION OF STABILIZED CONSTRUCTION ENTRANCES AS NEEDED.

3. CLEAR AND GRUB THE AREAS FOR THE INSTALLATION OF THE EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS.

4. BEGIN CLEARING, GRUBBING, AND GRADING THE AREAS WITHIN THE LOD.

5. MAINTAIN THE LIMIT OF DISTURBANCE MUST BE FIELD MARKED BY SURVEYOR PRIOR TO CLEARING. INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION OR OTHER LAND DISTURBING ACTIVITIES, FLAG ALL TREES TO BE SAVED PRIOR TO CLEARING AND GRUBBING OPERATIONS PER FOREST CONSERVATION PLAN.

6. ALL STREAM, WETLAND AREAS, FLOODPLAINS AND 25' WETLAND BUFFERS WILL BE FLAGGED AND PROTECTED WITH EROSION AND SEDIMENT CONTROLS TO AVOID IMPACTS.

7. THE SEDIMENT CONTROL DEVICE AFTER CLEARING/GRUBBING.

8. THE SAME DAY STABILIZATION SHALL BE PROVIDED FOR THE DISTURBED AREAS WHERE ARE NOT DRAINING TO THE EROSION AND SEDIMENT CONTROL DEVICES.

PHASE II- SIDEWALK CONSTRUCTION

1. PERFORM GRADING AND INSTALL THE PROPOSED STORM DRAIN SYSTEMS. AND INSTALL THE INLET PROTECTION AS SHOWN ON THE PLANS. TEMPORARILY PLUG THE TROUGH OPENING OF THE PLATER BOX AFTER INSTALLED.

2. CONSTRUCT THE FULL DEPTH SIDEWALK AND TRANCE PAVEMENT, RETAINING WALLS AND OTHER ROADWAY WORKS.

3. WITH APPROVAL FROM THE MCDCPS INSPECTOR, REMOVE THE EROSION AND SEDIMENT CONTROL MEASURES INSTALLED DURING PHASE I BUT NOT NEEDED ANY MORE.

4. AFTER THE DISTURBED CONTRIBUTING AREAS OF THE PERVIOUS CONCRETE SIDEWALK IS COMPLICATEDLY STABILIZED, START TO CONSTRUCT THE PERVIOUS CONCRETE SIDEWALK AND STABILIZE THE AREAS DISTURBED BY THIS PROCESS.

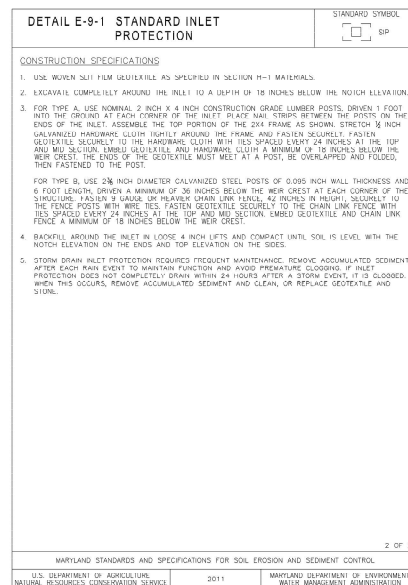
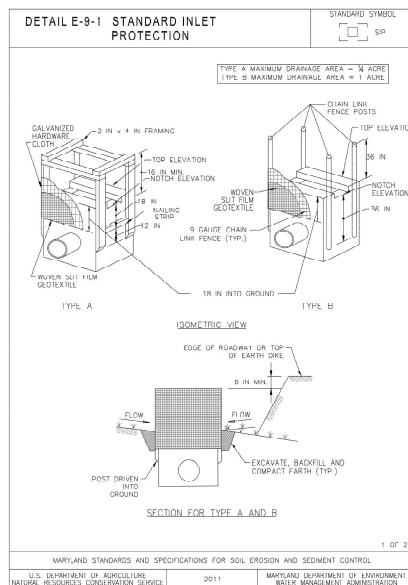
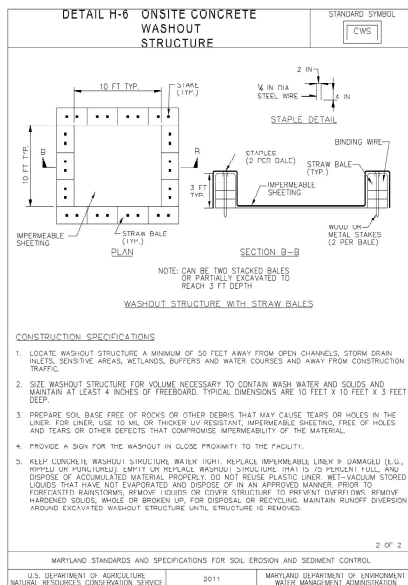
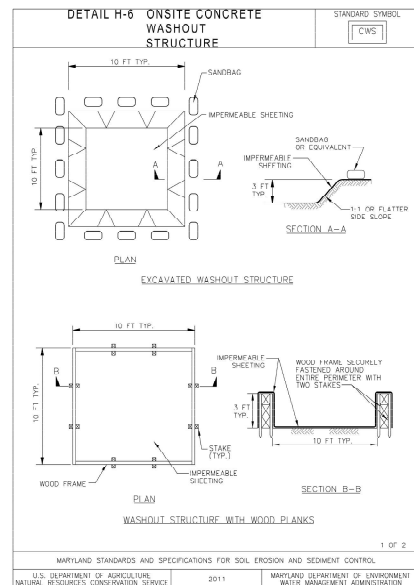
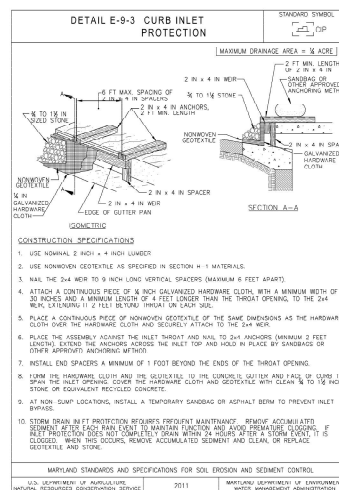
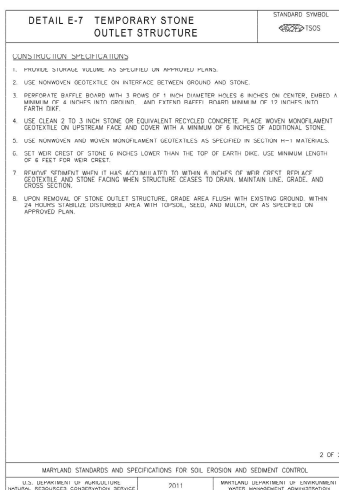
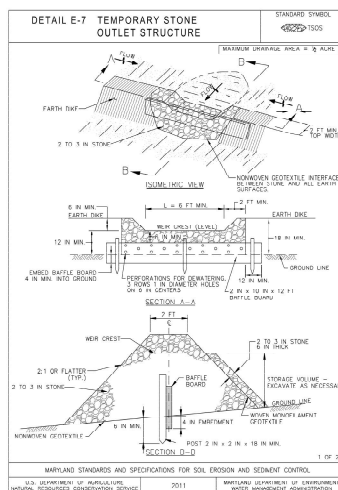
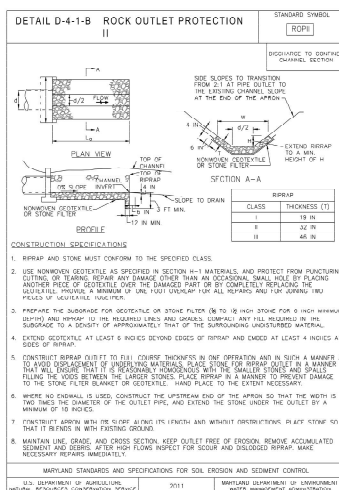
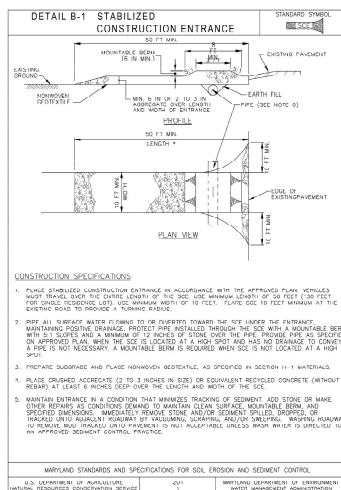
5. WITH THE APPROVAL FROM THE MCDCPS INSPECTOR, REMOVE THE REMAINING SEDIMENT CONTROL MEASURES.

6. PREPARE AND SUBMIT TO MCDCPS FOR REVIEW AND APPROVAL AN AS-BUILT PLAN OF THE STORMWATER MANAGEMENT FACILITIES.

SITE INFORMATION

TOTAL DISTURBED AREA: 2.02 AC
TOTAL VOLUME OF CUT: 1293 CU.YD
TOTAL VOLUME OF FILL: 1037 CU.YD

 Engineers, Architects Development Consultants 1890 Strada Stone Road, Rockville, MD, 20850 Phone: 301-993-9920 Fax: 301-993-9974 www.sheladec.com OWNER/ADDRESS: DEPARTMENT OF TRANSPORTATION 100 EDSON PARK DRIVE GAITHERSBURG, MARYLAND CONTACT: DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-7210 DESIGN SECTION 240-777-7221				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND RECOMMENDED FOR APPROVAL: Chief, Design Section Approved: _____ Date: _____ Chief, Division of Transportation Engineering Designed by: _____ Drawn by: _____ Checked by: _____ SEE TIME SHEET FOR SIGNATURES				MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR: Stormwater Management: _____ Reviewed: _____ Date: _____ Approved: _____ Date: _____ Sediment Control/Technical Requirements: _____ Reviewed: _____ Date: _____ Approved: _____ Date: _____				NOTE: MCDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDCPS ACCESS PERMIT Administrative Requirements: _____ Reviewed: _____ Date: _____ _____ Reviewed: _____ Date: _____ _____ Reviewed: _____ Date: _____				FRANKLIN AVENUE SIDEWALK GENERAL NOTES SCALE: AS SHOWN SC-13 Project No.: <u>180</u> of <u>180</u>			
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					<u>OWNER/ADDRESS:</u>
					DEPARTMENT OF TRANSPORTATION
					100 EDISON PARK DRIVE
					GAITHERSBURG, MARYLAND
					<u>CONTACT:</u>
					DIVISION OF TRANSPORTATION ENGINEERING
					CONSTRUCTION SECTION
					240-777-7210
					DESIGN SECTION
					240-777-7221

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	
APPROVED	
Chief, Division of Transportation Engineering	

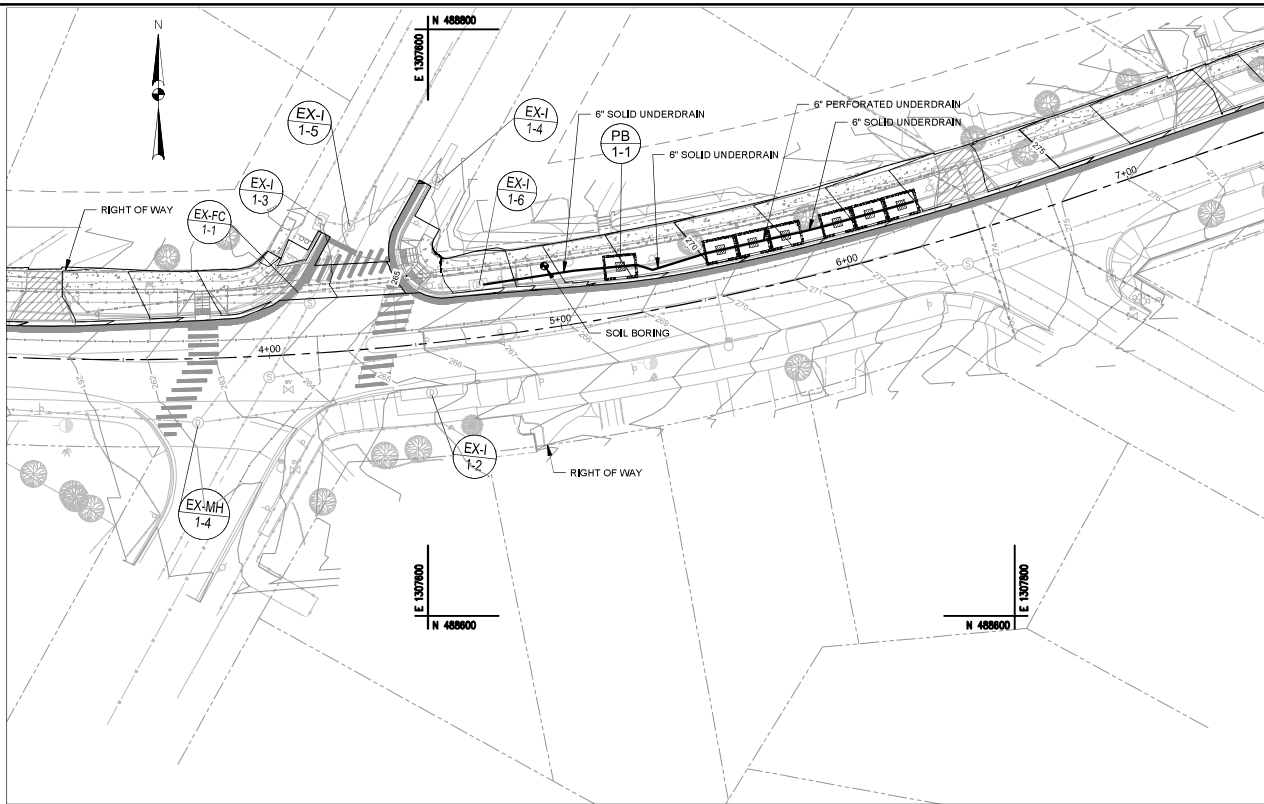
MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		
	Stormwater Management: _____ _____ _____	Setback Control Technical Requirements Reviewed _____ Date _____ Approved _____ Date _____
Date _____	Reviewed _____ Date _____	
Date _____	Approved _____ Date _____	

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT <i>Administrative Requirements:</i> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; padding: 2px;">Reviewed</td> <td style="width: 50%; border-bottom: 1px solid black; padding: 2px;">Date</td> </tr> <tr> <td style="border-bottom: 1px solid black; padding: 2px;"> </td> <td style="border-bottom: 1px solid black; padding: 2px;"> </td> </tr> </table> SEALING MATERIAL TYPE AND DESIGN APPROVAL BY: DATE: PROJECT NO: MCDPS ACCESS PERMIT NO: DRAFTER: DATE: 	Reviewed	Date			FRANKLIN SIDEWALK EROSION AND SEDIMENTATION CONTROL DETAILS SCALE : AS SHOWN
Reviewed	Date				

FRANKLIN AVENUE
SIDEWALK
EROSION AND SEDIMENT CONTROL
DETAILS

SCALE : AS SHOWN

SC-14



CONSTRUCTION INSPECTION CHECK-OFF LIST FOR MICRO BIORETENTION FACILITY		
STAGE	COUNTY INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.		
1. Excavation for Micro Bioretention facility conforms to approved plans		
2. Placement of stone backfill and underdrain system conforms to approved plans		
3. Placement of filter media conforms to approved plans		
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans		
5. Final grading and permanent stabilization conforms to approved plans		

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR SWALES		
STAGE	MCDPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. The permittee must maintain a "record set" of approved SC/SM plans on-site at all times. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.		
1. Placement of backfill of underdrains and installation of diaphragms, forebays, check dams, or weirs conforms to approved plans		
2. Final grading and establishment of permanent stabilization conforms to approved plans		

ESD PLANTER BOX (PB) DESIGN SUMMARY							
ESD NO.	POI	DRAINAGE AREA (AC)	IMPERV. AREA(AC)	SOIL TYPE	PE REQUIRED (R,O,W)*	PE TREATED**	ESDV PROVIDED (CF)
PB 1-1	POI-1	1,28	0,54	B	1,8	0,6	1274

*THE REQUIRED PE IS CALCULATED WITHIN THE R.O.W.
**PARTIAL TREATMENT IS PROVIDED FOR THE PP

NOTE:
SEE THE DETAIL PLAN SHEETS FOR THE PLANTER BOX (PB) DIMENSIONS AND TYPICAL SECTIONS

LEGEND

BMP-PERVIOUS CONCRETE SIDEWALK

BMP-BIOSWALE

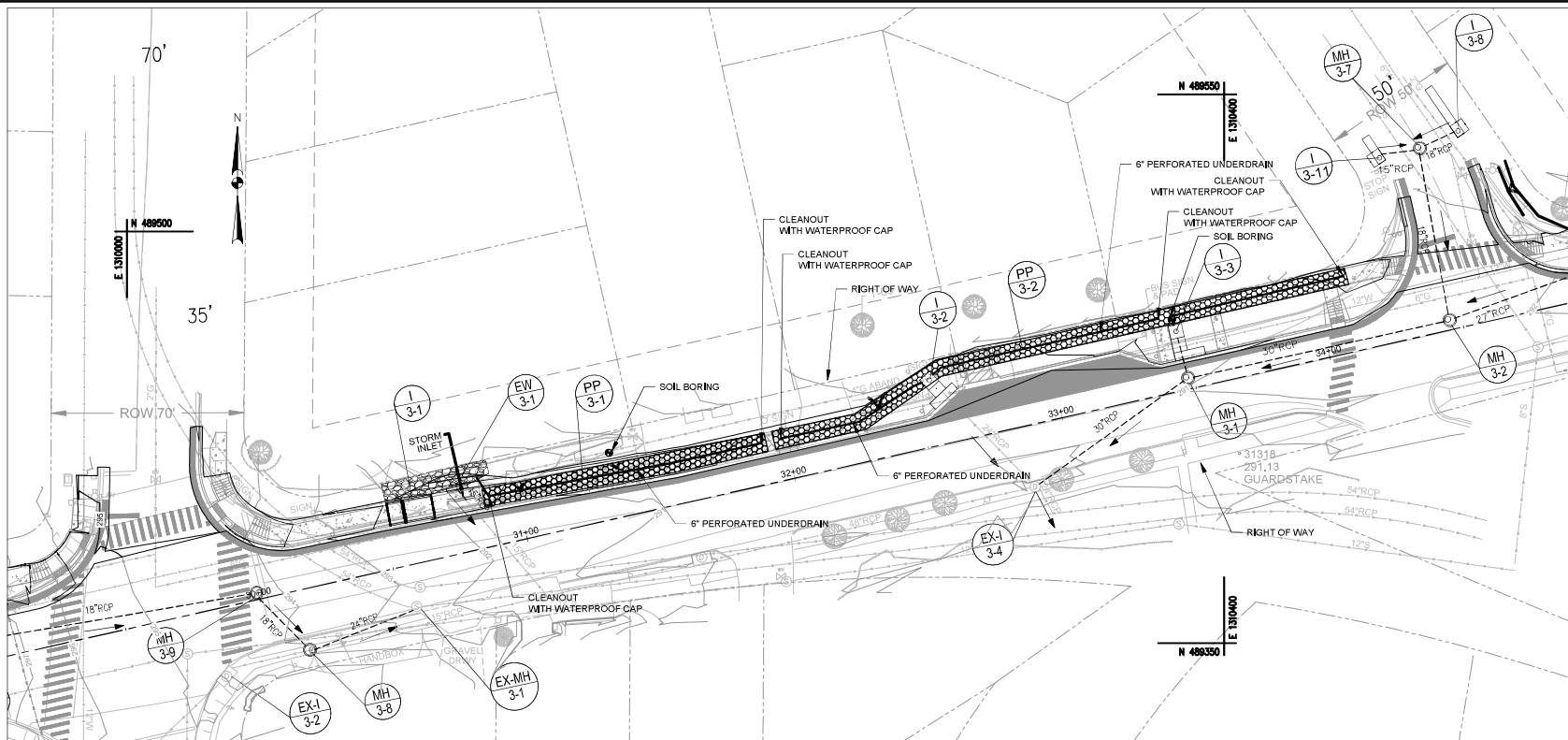
BMP-PLANTER BOX

Engineers, Architects
Development Consultants
1895 Sandy Stone Road, Rockville, MD, 20850
Phone: 301-495-0020 Fax: 301-495-0174
www.sheldons.com

NO.	REVISION	DATE	BY

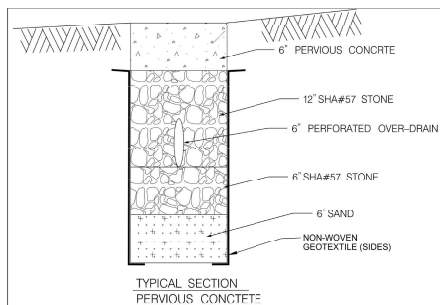
 OWNER/ADDRESS: DEPARTMENT OF TRANSPORTATION 100 EDSON PARK DRIVE GAITHERSBURG, MARYLAND CONTACT: DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-7210 DESIGN SECTION 240-777-7221 | MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND RECOMMENDED FOR APPROVAL: Chief Design Section APPROVED: _____ Date: _____ Chief Division of Transportation Engineering APPROVED: _____ Date: _____ Designed by: _____ Drawn by: _____ Checked by: _____ | MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR: Stormwater Management: _____ Reviewed: _____ Date: _____ Approved: _____ Date: _____ Approved: _____ Date: _____ Sediment Control Technical Requirements: Reviewed: _____ Date: _____ Approved: _____ Date: _____ Approved: _____ Date: _____ NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT Administrative Requirements: Reviewed: _____ Date: _____ APPROVED: _____ APPROVED: _____ APPROVED: _____ | FRANKLIN AVENUE SIDEWALK PLANTER BOX PB 1-1 SCALE: AS SHOWN Project No.: 180 of 109 SWM-01 |

FILE: K:\5547 MC DOT12 Franklin Ave Sidewalk Final Design\07 DESIGN\100% Construction Documents\Jerry's Files\Incoming\120922_Jerry_CADD\dwg Files\dwg Files\p5w-Sheet.dwg
DATE: Mar 15, 2023 - 10:54am



CONSTRUCTION INSPECTION
CHECK-OFF LIST FOR PERMEABLE PAVEMENTS

STAGE	MCDCPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at those points prior to proceeding with construction. The permittee is required to give the MCDCPS inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDCPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDCPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDCPS inspector OR the Owner/Developer.		
1. Excavation to subgrade conforms to approved plans		
2. Placement and backfill of any drainage or distribution systems conforms to approved plans		
3. Placement of crushed stone subbase conforms to approved plans		
4. Placement of surface material conforms to approved plans		
5. Final grading and permanent stabilization conforms to approved plans		



ESD PERVIOUS CONCRETE(PP) DESIGN SUMMARY

ESD NO.	POI	DRAINAGE AREA (AC)	IMPERV. AREA(AC)	SOIL TYPE	PE REQUIRED (R.O.W)*	PE TREATED**	ESDv PROVIDED (CF)
PP 3-1	POI-3	0,028	0,017	B/C	1,8	2,6	126
PP 3-2	POI-3	0,054	0,031	B/C	2,0	2,6	338

*THE REQUIRED PE IS CALCULATED WITHIN THE R.O.W.

NOTE
SEE THE DETAIL PLAN SHEETS FOR THE PLANTER BOX (PB) DIMENTIONS AND TYPICAL SECTIONS

LEGEND



0 20 40
SCALE: 1" = 20'

SHELADIA
Engineers, Architects
Development Consultants
1895 Sandy Stone Road, Rockville, MD 20850
Phone: 301-495-2220 Fax: 301-495-1771
www.ssheladia.com

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GATHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL:
Chief, Design Section
APPROVED: _____ Date: _____
Chief, Division of Transportation Engineering
APPROVED: _____ Date: _____
Designed by: _____ Drawn by: _____ Checked by: _____

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

Stormwater Management: _____
Sediment Control Technical Requirements:
Reviewed: _____ Date: _____
Approved: _____ Date: _____
Approved: _____ Date: _____

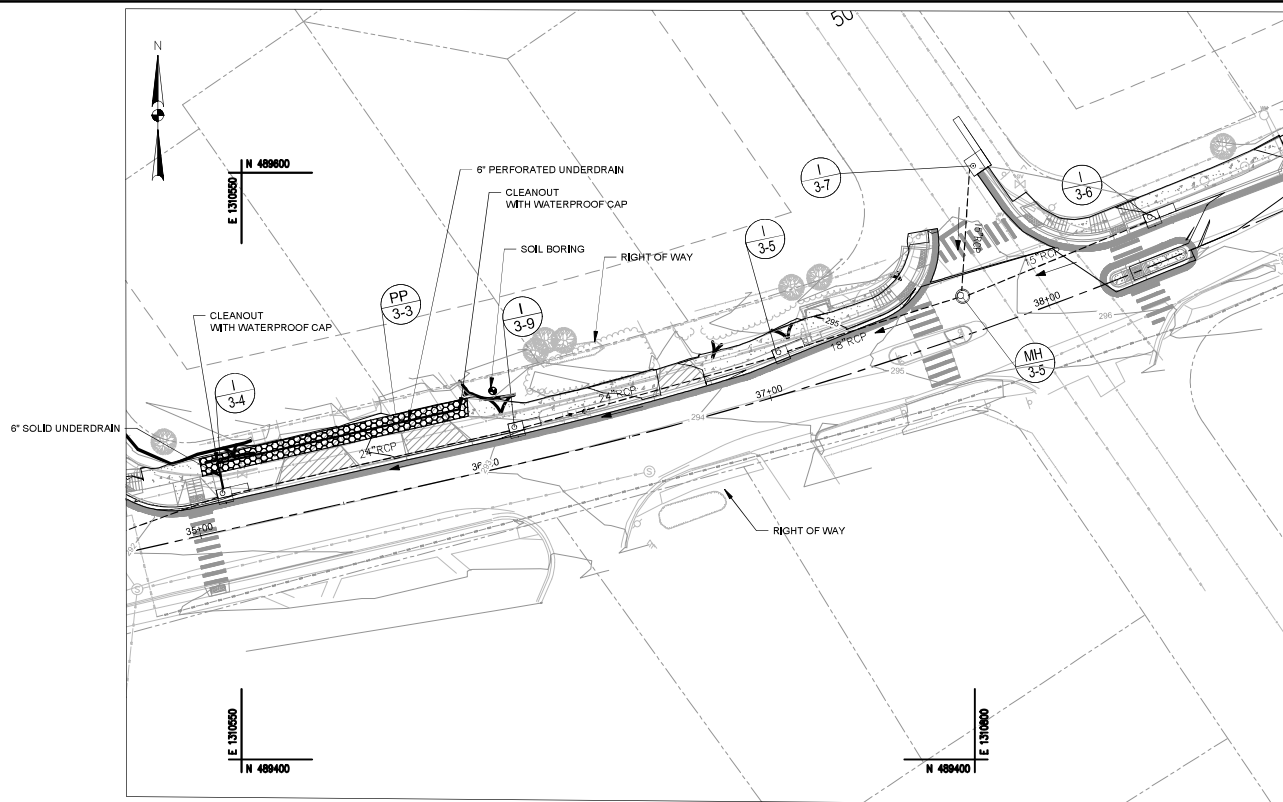
NOTE: MCDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDCPS AS-BUILT

Administrative Requirements:
Reviewed: _____ Date: _____
APPROVED: _____
APPROVED: _____

FRANKLIN AVENUE
SIDEWALK
PERVIOUS CONCRETE
PP 3-1 & PP 3-2

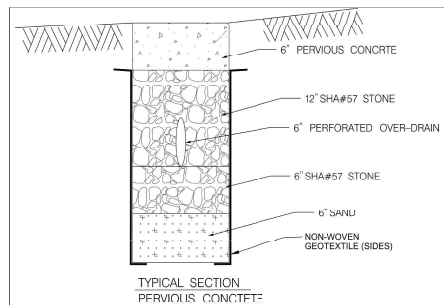
SCALE: AS SHOWN

Project No.: 180 57 of 109 **SWM-02**



CONSTRUCTION INSPECTION CHECK-OFF LIST FOR PERMEABLE PAVEMENTS

STAGE	MCDCPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDCPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDCPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDCPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDCPS Inspector OR the Owner/Developer.		
1. Excavation to subgrade conforms to approved plans		
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3. Placement of crushed stone subbase conforms to approved plans		
4. Placement of surface material conforms to approved plans		
5. Final grading and permanent stabilization conforms to approved plans		



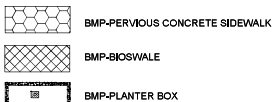
ESD PERVIOUS CONCRETE(PP) DESIGN SUMMARY

ESD NO.	POI	DRAINAGE AREA (AC)	IMPERV. AREA(AC)	SOIL TYPE	PE REQUIRED (R.O.W)*	PE TREATED**	ESDv PROVIDED (CF)
PP-3-3	POI-3	0,035	0,013	B	1,8	2,6	120

*THE REQUIRED PE IS CALCULATED WITHIN THE R.O.W.

NOTE:
SEE THE DETAIL PLAN SHEETS FOR THE PLANTER BOX (PB) DIMENSIONS AND TYPICAL SECTIONS

LEGEND



0 20 40
SCALE: 1" = 20'



OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GATHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED: _____ Date: _____
Chief, Division of Transportation Engineering
APPROVED: _____ Date: _____

Designed by: _____ Drawn by: _____ Checked by: _____

MONTGOMERY CO. DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

Reviewed: _____ Date: _____
Approved: _____ Date: _____

Sediment Control Technical Requirements:

Reviewed: _____ Date: _____
Approved: _____ Date: _____

NOTE: MCDCPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDCPS ACCESS PERMIT

Administrative Requirements:

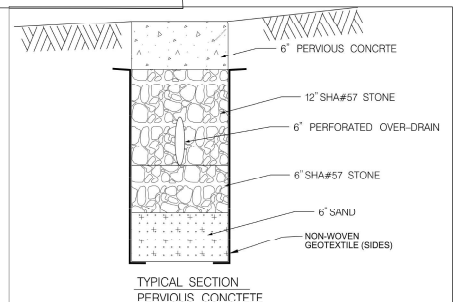
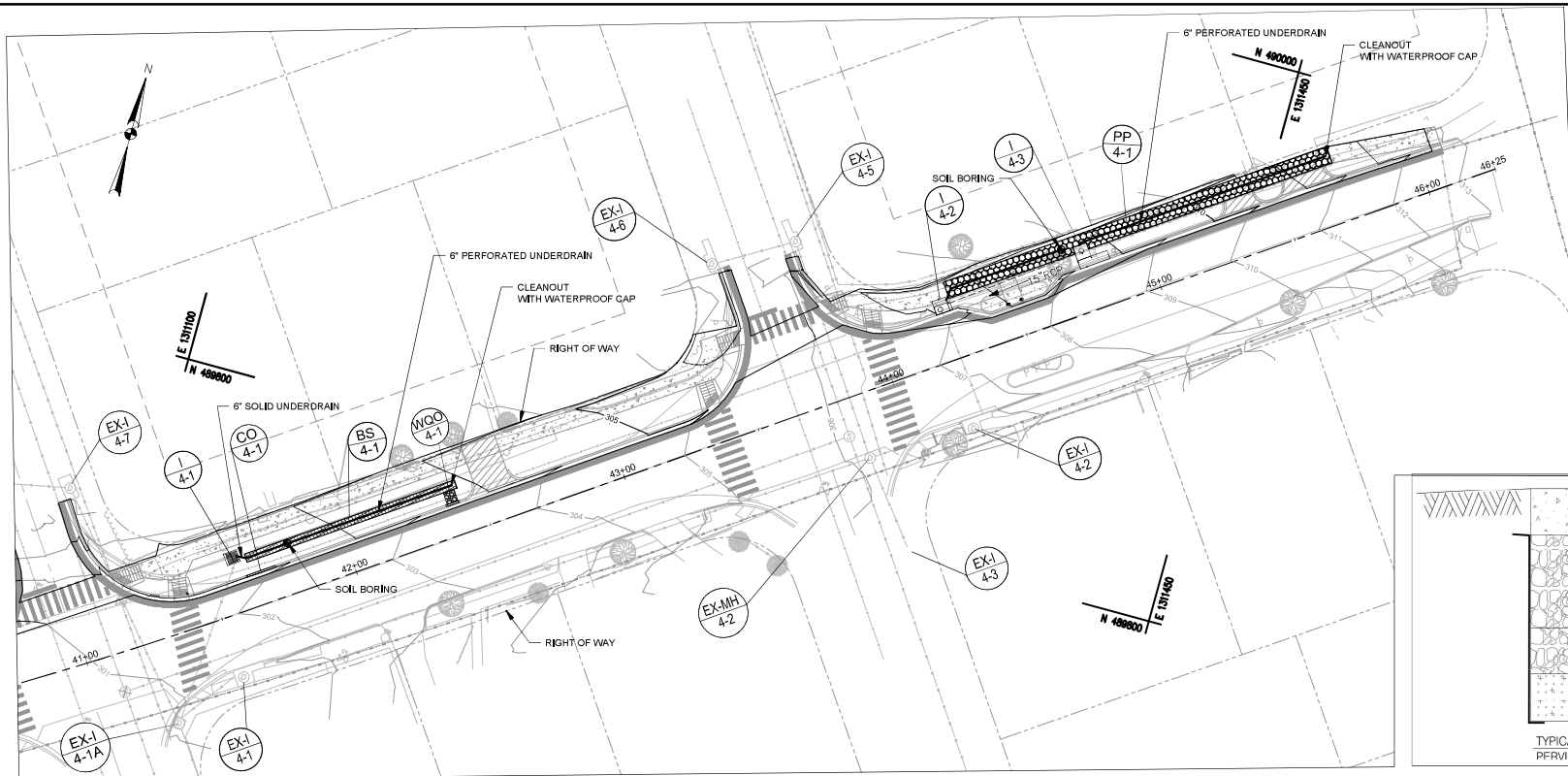
Reviewed: _____ Date: _____
Approved: _____ Date: _____

FRANKLIN AVENUE
SIDEWALK
PERVIOUS CONCRETE
PP-3-3

SCALE: AS SHOWN

SWM-03

Project No.: 180-03-01 of 100



CONSTRUCTION INSPECTION CHECK-OFF LIST FOR PERMEABLE PAVEMENTS		
STAGE	MCDPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.		
1. Excavation to subgrade conforms to approved plans		
2. Placement and backfill of any drainage or distribution systems conforms to approved plans		
3. Placement of crushed stone subbase conforms to approved plans		
4. Placement of surface material conforms to approved plans		
5. Final grading and permanent stabilization conforms to approved plans		

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR SWALES		
STAGE	MCDPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. The permittee must maintain a "record set" of approved SC/SM plans on-site at all times. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.		
1. Placement of backfill of underdrains and installation of diaphragms, forebays, check dams, or weirs conforms to approved plans		
2. Final grading and establishment of permanent stabilization conforms to approved plans		

ESD BIOSWALE (BS) AND PERVIOUS CONCRETE (PP) DESIGN SUMMARY							
ESD NO.	POI	DRAINAGE AREA (AC)	IMPERV. AREA(AC)	SOIL TYPE	PE REQUIRED (R.O.W)*	PE TREATED**	ESDv PROVIDED (CF)
BS 4-1	POI-4	0,37	0,18	B	1,8	0,17	112
PP 4-1	POI-4	0,034	0,026	B	2,2	2,6	239

*THE REQUIRED PE IS CALCULATED WITHIN THE R.O.W.

NOTE: SEE THE DETAIL PLAN SHEETS FOR THE PLANTER BOX (PB) DIMENSIONS AND TYPICAL SECTIONS

LEGEND

0 20 40
SCALE: 1" = 20'

Engineers, Architects
Development Consultants
1890 Sandy Stone Road, Rockville, MD 20850
Phone: 301-440-2222 Fax: 301-440-1171
www.shelada.com

OWNER/ADDRESS:
DEPARTMENT OF TRANSPORTATION
100 EDSON PARK DRIVE
GANTHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
CONSTRUCTION SECTION
240-777-7210
DESIGN SECTION
240-777-7221

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL:
Chief, Design Section
APPROVED: _____ Date: _____
Chief, Division of Transportation Engineering
APPROVED: _____ Date: _____
Designed by: _____ Drawn by: _____ Checked by: _____

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

Stormwater Management:	Sediment Control Technical Requirements:
Reviewed: _____ Date: _____	Reviewed: _____ Date: _____
Approved: _____ Date: _____	Approved: _____ Date: _____

DESIGNED BY: _____

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT

Administrative Requirements:

Reviewed: _____ Date: _____	Reviewed: _____ Date: _____
APPROVED: _____	APPROVED: _____

SCALE: AS SHOWN

Project No.: 180 of 109

FRANKLIN AVENUE
SIDEWALK
PERVIOUS CONCRETE & BIOSWALE
PP 4-1 & BS 4-1

SWM-04

The diagram illustrates a cross-section of a bioswale system. The vertical axis represents elevation in feet, ranging from 290 to 315. The horizontal axis represents stationing, with markers at 0+00, 0+50, 1+00, and 1+11. The system components, from top to bottom, are:

- PRO. GRADE**: The top surface of the bioswale.
- EX. GROUND**: The existing ground level, shown as a dashed line.
- 3" SHREDDED HARDWOOD MUGH**: A layer of shredded hardwood mulch.
- CLEAN OUT**: A sloped area for debris collection.
- 0" PERFORATED PPWP**: A layer of 0-inch perforated polypropylene woven pipe.
- 12" STONE (NO 57 STONE)**: A layer of 12-inch stone.
- 6" COARSE SAND**: A layer of 6-inch coarse sand.
- 24" BIORETENTION SOIL MIX (RSM)**: A layer of 24-inch bio-retention soil mix.
- NON-WOVEN GEOTEXTILE**: A layer of non-woven geotextile.
- 6" SOLID PPWP**: A layer of 6-inch solid polypropylene woven pipe.
- EX. PIPE INV. 297.50**: The existing pipe invert elevation.
- INV. 297.60**: The bioswale invert elevation.

The image contains two technical drawings related to a bio-swale system.

BIO-SWALE TYPICAL CROSS SECTION B-B
 SCALE: NTS

This cross-section diagram shows the following components and dimensions:

- Variable Trail Buffer Width (W_{TR}=2')** and **Variable Facility Width** are indicated at the top.
- Sidewalk (Varies)** is shown on the left.
- Width: 3'** is the width of the swale bed.
- ESDv Elev.** (Existing Surface Drainage) and **Ponding Depth: Varies** are noted.
- 3" Shredded Hardwood Mulch** is the top layer.
- Non-Woven Geotextile** is below the mulch.
- 24" Bioretention Soil Mix (BSM)** is the main filter layer.
- 6" Coarse Sand** is the layer below the BSM.
- 6" Perforated PPWP Subdrain** is located **4" Below Subdrain**.
- 12" Stone (No. 57 Stone)** is the base layer.
- Curb** is on the right side.

BIO-SWALE CLEANOUT DETAIL
 SCALE: NTS

This detail view shows the connection to a storm drain:

- 6" PPWP Screw-On Cap** is at the top.
- 6" Solid PPWP** pipe leads down.
- 45 Degree Bend** is shown in the pipe.
- 6" PPWP Branch** connects to the storm drain.
- The layers below (mulch, BSM, sand, stone) are consistent with the typical cross-section.
- 6" MIN.** is the minimum depth of the stone layer.

BIO-SWALE CLEANOUT DETAIL
SCALE: NTS

AS-BUILT DATA FOR BIO-SWALE(BS)	
TOTAL SWALE LENGTH (FT)	BS 4-1 80
SWALE BOTTOM WIDTHS (FT)	3
SWALE SIDE SLOPE	3:1
SWALE LONGITUDINAL SLOPE (%)	1.7%
BIORETENTION SOIL MIX (IN)	24
COARSE SAND (IN)	6
NO 57 STONE (IN)	12
POROSITY OF MEDIA	0.4
TOTAL ESDY PROVIDED (CF)	112

[illegible]

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED:	
Chief, Division of Transportation Engineering	Date
Designed by:	Drawn by:
	Checked by:

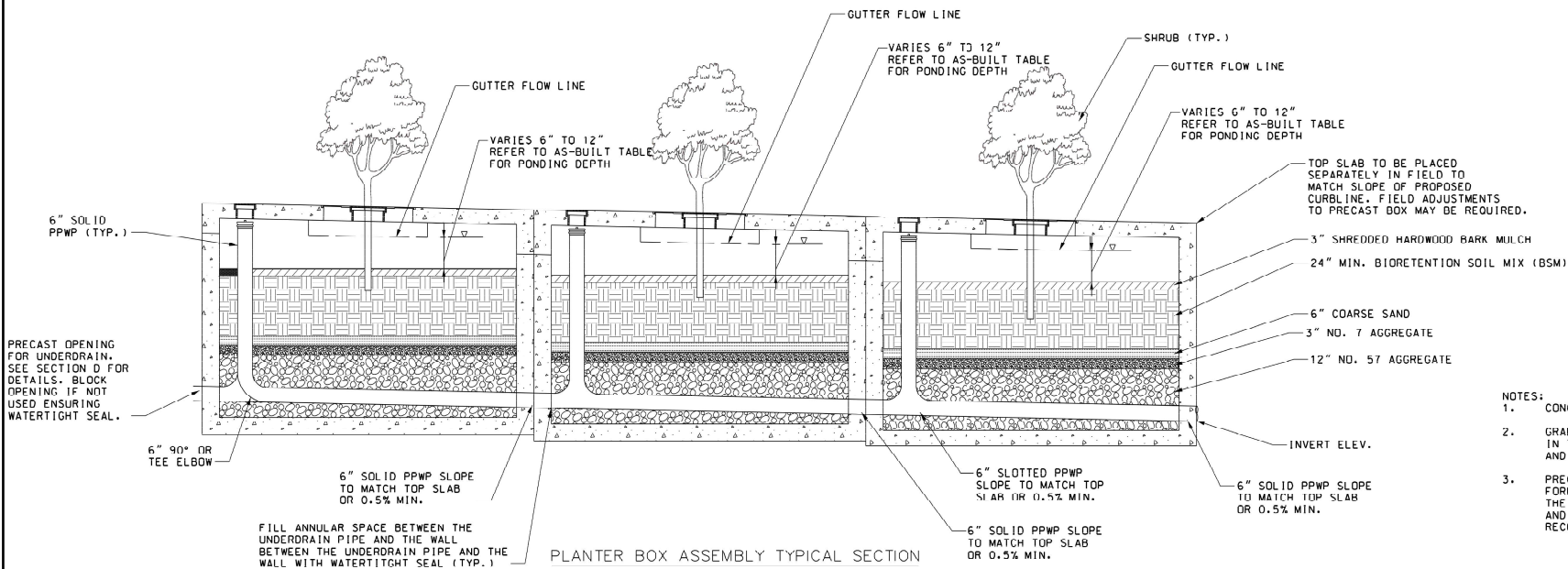
MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:			
Stormwater Management: Reviewed Date Approved Date		Sediment Control Technical Requirements: Reviewed Date Approved Date	

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT <i>Administrative Requirements:</i> <table border="1"> <tr> <th>Reviewed</th> <th>Date</th> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td colspan="2"> REGISTRATION COORDINATOR, PERMITS DIV. </td> </tr> <tr> <td colspan="2"> PROJECT APPROVAL OF THIS PERMIT IS LIMITED ONE YEAR FROM THE DATE OF APPROVAL. IN THE EVENT OF A LATE NOT OF PERIOD EXCEEDS THE PERIOD HAS BEEN EXTENDED. </td> </tr> </table>		Reviewed	Date	_____	_____	REGISTRATION COORDINATOR, PERMITS DIV.		PROJECT APPROVAL OF THIS PERMIT IS LIMITED ONE YEAR FROM THE DATE OF APPROVAL. IN THE EVENT OF A LATE NOT OF PERIOD EXCEEDS THE PERIOD HAS BEEN EXTENDED.	
Reviewed	Date								
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REGISTRATION COORDINATOR, PERMITS DIV.									
PROJECT APPROVAL OF THIS PERMIT IS LIMITED ONE YEAR FROM THE DATE OF APPROVAL. IN THE EVENT OF A LATE NOT OF PERIOD EXCEEDS THE PERIOD HAS BEEN EXTENDED.									

SCALE : AS SHOWN

SWM-05

Project No.: TSD 60 of 102



- NOTES:
1. CONCRETE SHALL BE MIX NO.6 (4500 PSI).
 2. GRADE AND SLOPE ADJUSTMENTS SHALL BE COMPLETED IN THE FIELD USING PRECAST ADJUSTMENT COLLAR AND MORTAR.
 3. PRECAST INLET JOINTS - THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR OWN DESIGN. THE JOINTS SHALL BE SEALED AND MADE WATERTIGHT USING THE MANUFACTURER'S RECOMMENDED ASTM OR AASHTO APPROVED SEALANT.

AS-BUILT DATA FOR PLANTER BOX (PB)

	PB 1-1
FILTER BED AREA (SF)	560
SURFACE VOLUME (CF)	560
OUTLET PIPE/UNDERDRAIN SIZE (INCH)	6
POND DEPTH (INCH)	12
MULCH THICKNESS (INCH-I)	3
BIORETENTION SOIL MIX THICKNESS (INCH)	24
COARSE SAND THICKNESS (INCH)	6
NO. 7 PEA GRAVEL THICKNESS (INCH)	3
NO. 57 GRAVEL THICKNESS (INCH)	12
NUMBER OF CELL (EACH)	8
CLEANOUT (EACH)	8
TREES (EACH)	8
CELL SIZE (LXW)	10' LX7' W
TROUGH OPENING SIZE	4' WX3'H
UPSTREAM TROUGH INVERT ELEV.	N/A
STA.	5+75, 11.3' LT

				<u>OWNER/ADDRESS:</u> DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR: Stormwater Management				Sediment Control Technical Requirements				NOTE: MDOT'S APPROVAL DOES NOT NEGATE THE NEED OF A MDOT ACCESS PERMIT. Administrative Requirements				FRANKLIN AVENUE SIDEWALK PLANTER BOX DESIGN AND DETAILS									
				<u>CONTACT:</u> DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-2110 DESIGN SECTION 240-777-2121				RECOMMENDED FOR APPROVAL: Chief, Design Section _____ Date _____ APPROVED: _____ Chief, Division of Transportation Engineering _____ Date _____ Designed by _____ Drawn by _____ Checked by _____				_____ Reviewed _____ Date _____ _____ Reviewed _____ Date _____ Approved _____ Date _____ _____ Approved _____ Date _____				_____ Reviewed _____ Date _____ _____ Approved _____ Date _____ _____ Approved _____ Date _____				_____ Reviewed _____ Date _____ _____ Approved _____ Date _____ _____ Approved _____ Date _____				SCALE: AS SHOWN								SWM-06	
NO. _____				REVISION _____				DATE _____				BY _____																Project No.: <u>780</u> \$1 _____ of <u>100</u>					

MONTGOMERY COUNTY STORMWATER MANAGEMENT FACILITY GUIDELINES

IN ORDER TO FUNCTION PROPERLY, ALL STORMWATER MANAGEMENT FACILITIES REQUIRE MAINTENANCE. MAINTENANCE REQUIREMENTS AND FREQUENCY MAY VARY FROM SITE TO SITE AND BETWEEN TYPES OF FACILITIES. THE FOLLOWING INFORMATION IS DESIGNED TO PROVIDE GENERAL INFORMATION ABOUT FACILITY TYPES AND MAINTENANCE REQUIREMENTS, AND SPECIFIC GUIDANCE ON STORMWATER MANAGEMENT FACILITY MAINTENANCE. CONTACT:

THE MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION (MCDPEP) AT 240-777-7770.

NOTE: SPECIAL EQUIPMENT MAY BE REQUIRED FOR ANY PERSON ENTERING AN ENCLOSED SPACE, CONTACT MCDPEP FOR GUIDANCE PRIOR TO ATTEMPTING TO ENTER INTO ANY ENCLOSED SPACE.

FACILITIES APPLICABLE TO THIS AS-BUILT RECORD DRAWING ARE MARKED WITH AN "X" BELOW.

A. DRY DETENTION POND
A DRY DETENTION POND SERVES TO PROTECT DOWNSTREAM PROPERTIES AND RECEIVING STREAMS FROM EXCESSIVE EROSION AND FLOODING. IT DOES THIS BY TEMPORARILY STORING WATER DURING A LARGE STORM EVENT, AND RELEASING IT AT A CONTROLLED RATE THROUGH A LOW FLOW ORIFICE. ROUTINE MAINTENANCE FOR DRY PONDS INCLUDES REGULAR MOWING OF THE POND AND EMBANKMENT, AND CHECKING TO ENSURE THAT THE LOW FLOW ORIFICE AND TRASH GRATE DOES NOT BECOME CLOGGED WITH DEBRIS. THIS POND IS NOT DESIGNED TO HOLD A PERMANENT POOL OF WATER, STANDING WATER MAY INDICATE THAT THE LOW FLOW ORIFICE HAS BECOME CLOGGED AND IS IN NEED OF MAINTENANCE.

B. WET RETENTION POND
A WET RETENTION POND SERVES TO PROTECT DOWNSTREAM PROPERTIES AND RECEIVING STREAMS FROM EXCESSIVE EROSION AND FLOODING. IT DOES THIS BY TEMPORARILY STORING WATER DURING A LARGE STORM EVENT, AND RELEASING IT AT A CONTROLLED RATE THROUGH A LOW FLOW ORIFICE. ROUTINE MAINTENANCE FOR WET PONDS INCLUDES REGULAR MOWING OF THE POND SLOPES AND EMBANKMENT, AND CHECKING TO ENSURE THAT THE LOW FLOW ORIFICE DOES NOT BECOME CLOGGED WITH DEBRIS. A METAL HOOD OR ELBOW THAT EXTENDS BELOW THE PERMANENT WATER SURFACE ELEVATION TYPICALLY PROTECTS THE LOW FLOW ORIFICE ON THESE PONDS. IF THIS HOOD OR ELBOW IS COMPLETELY SUBMERGED BELOW THE SURFACE OF THE POND, THE ORIFICE IS LIKELY CLOGGED AND IN NEED OF MAINTENANCE.

C. UNDERGROUND STORAGE
THIS STRUCTURE CONSISTS OF UNDERGROUND STORAGE PIPES DESIGNED TO TEMPORARILY DETAIN STORMWATER RUNOFF AND RELEASE IT AT A CONTROLLED RATE THROUGH A LOW FLOW ORIFICE. ROUTINE MAINTENANCE INCLUDES INSPECTING THE POND TO ENSURE THAT THE POND DOES NOT BECOME CLOGGED WITH DEBRIS. NOTE: SPECIAL EQUIPMENT MAY BE REQUIRED FOR ANY PERSON ENTERING AN ENCLOSED SPACE, CONTACT MCDPEP FOR GUIDANCE PRIOR TO ATTEMPTING TO ENTER INTO ANY ENCLOSED SPACE.

D. MONTGOMERY COUNTY SAND FILTER
THE PURPOSE OF THE SAND FILTER IS TO INTERCEPT AND TREAT STORMWATER RUNOFF TO IMPROVE THE QUALITY OF WATER LEAVING THE DEVELOPMENT. WATER FLOWS ON TOP OF THE SAND FILTER, AND THROUGH IT, WHERE IT IS COLLECTED BY AN UNDERDRAIN PIPE AND DIRECTED TO AN OUTFALL. THIS MOVEMENT OF THE WATER THROUGH THE SAND FILTER FILTS OUT MANY OF THE POLLUTANTS. THE SAND FILTER SHOULD USUALLY DRY UP WITHIN 48 HOURS. IF WATER STANDS ON THE FILTER FOR LONGER PERIODS OF TIME, MAINTENANCE IS REQUIRED. BECAUSE THE SAND ACTS AS A FILTER, IT WILL EVENTUALLY CLOG, CLOGGING GENERALLY EFFECTS THE TOPMOST PORTION OF THE SAND, LEAVING THE UNDERLYING SAND UNCLOGGED. TO INCREASE THE LIFE OF THE FILTER, THE TOP LAYER SHOULD BE RAKED ON A REGULAR BASIS IN ORDER TO BREAK UP ANY SURFACE CLOGGING THAT MAY OCCUR, EVENTUALLY THE TOP 3" - 4" OF SAND WILL LIKELY REQUIRE REMOVAL AND REPLACEMENT WITH NEW, CLEAN MATERIAL. IF THE SAND FILTER IS PROVIDED WITH A GRAVEL TOP LAYER, ROUTINE RAKING WILL NOT BE POSSIBLE.

E. INFILTRATION TRENCH
AN INFILTRATION TRENCH IS AN UNDERGROUND STONE RESERVOIR WHICH COLLECTS STORM RUNOFF AND ALLOWS IT TO SLOWLY SEEP BACK INTO THE GROUND. ON TOP OF THE TRENCH IS A LAYER OF GRAVEL, UNDER WHICH IS A LAYER OF FILTER FABRIC. THE INFILTRATION TRENCH SHOULD APPEAR DRY WITHIN 12-24 HOURS AFTER A STORM EVENT. IF STANDING WATER IS OBSERVED ON THE FACILITY, IT MAY INDICATE THAT THE FILTER FABRIC IS IN NEED OF REMOVAL AND REPLACEMENT. THE PURPOSE OF THE FILTER FABRIC IS TO TRAP SMALL PARTICLES THAT MIGHT OTHERWISE ENTER THE FACILITY, AND CAUSE THE BOTTOM OF THE TRENCH TO FAIL.

F. BIO FILTER
THE PURPOSE OF BIO FILTRATION IS TO INTERCEPT AND TREAT STORMWATER TO IMPROVE WATER LEAVING THE DEVELOPMENT. WATER FLOWS INTO THE FACILITY AND SLOWLY SEEPS THROUGH IT, WHERE IT IS COLLECTED BY AN UNDERDRAIN PIPE AND DIRECTED TO AN OUTFALL. THIS MOVEMENT OF THE WATER THROUGH THE MEDIA FILTER FILTS OUT MANY OF THE POLLUTANTS. THE BIO FILTRATION AREA SHOULD USUALLY DRY UP WITHIN 48 HOURS. IF WATER STANDS ON THE FILTER FOR LONGER PERIODS OF TIME, MAINTENANCE IS REQUIRED. MAINTENANCE OF THIS TYPE HOOD OR ELBOW GENERALLY INCLUDES REPLACEMENT OF DEAD OR DISEASED PLANT MATERIAL AND REPLISHMENT OF THE MULCH LAYER. THE MULCH LAYER IS USED TO INCREASE THE EFFICIENCY OF POLLUTANT REMOVAL. LARGER FLOWS ARE DIVERTED AROUND THE FACILITY AND PERMEABLE PAVING SHOULD BE USED TO INCREASE THE EFFICIENCY OF POLLUTANT REMOVAL. THE BIO FILTER IS INTENDED TO BE AN ACTIVELY MAINTAINED LANDSCAPE AREA.

G. FLOW SPLITTER
STORMWATER FROM THE STORMWATER MANAGEMENT FACILITIES IN MONTGOMERY COUNTY RECEIVE DRAINAGE VIA A DEVICE WHICH IS DESIGNED TO DIVERT ONLY THE FIRST AND DIRTIEST FLUSH OF STORMWATER RUNOFF TO THE WATER QUALITY TREATMENT FACILITY. THIS INCREASES THE EFFICIENCY OF POLLUTANT REMOVAL. LARGER FLOWS ARE DIVERTED AROUND THE FACILITY AND PERMEABLE PAVING SHOULD BE USED TO INCREASE THE EFFICIENCY OF POLLUTANT REMOVAL. THE FLOW SPLITTER IS INTENDED TO BE AN ACTIVELY MAINTAINED LANDSCAPE AREA.

NOTE: SPECIAL EQUIPMENT MAY BE REQUIRED FOR ANY PERSON ENTERING AN ENCLOSED SPACE, CONTACT MCDPEP FOR GUIDANCE PRIOR TO ATTEMPTING TO ENTER INTO ANY ENCLOSED SPACE.

H. STORMFILTER
THE STORMFILTER IS A PROPRIETARY DEVICE IN WHICH WATER FLOWS THROUGH A FILTER MEDIA TO REMOVE POLLUTANTS. THE FILTER MEDIA WILL REQUIRE PERIODIC REPLACEMENT. FOR THE MANUFACTURER'S RECOMMENDATIONS, IN ADDITION TO FILTER MEDIA REPLACEMENT, THE STRUCTURE SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT IT IS NOT CLOGGED WITH DEBRIS.

I. STORMCEPTOR, BAY SAVER, VORTEXCHIN, OR OTHER HYDRODYNAMIC STRUCTURE
THESE PROPRIETARY STRUCTURES ARE ESSENTIALLY MANHOLES THAT SERVE TO TRAP SEDIMENTS FROM FLOATABLE POLLUTANTS, SUCH AS OIL, TANKS AND SEDIMENTS ARE TRAPPED WITHIN THE FACILITY. THESE STRUCTURES SHOULD BE INSPECTED PERIODICALLY TO ENSURE THAT THE PIPES ARE NOT CLOGGED BY DEBRIS. IN ADDITION, THE POLLUTANT BUILDUP WITHIN THE FACILITY MUST BE MONITORED REGULARLY AND THE TRAPPED MATERIALS REMOVED ONCE THE STORAGE CAPACITY OF THE DEVICE HAS BEEN REACHED. A LICENSED CONTRACTOR MUST REMOVE THE MATERIALS FROM THE FACILITY.

J. OTHER FACILITY - DESCRIBED BELOW:
1. THE PERMEABLE PAVEMENT
THE PERMEABLE PAVEMENT METHODS DESCRIBED IN THIS DOCUMENT ARE BASED ON THE PERMEABLE PAVING DESIGN FOUND IN CHAPTER 5 OF THE MARYLAND STORMWATER DESIGN MANUAL AND THE ENVIRONMENTAL SITE DESIGN (ESD) PROCESS & APPLICATIONS SUPPLEMENT DATED JULY 2010, WHERE DEEMED APPROPRIATE. THE DESIGN SPECIFICATIONS HAVE BEEN MODIFIED BY THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES (DPS). DPS REQUIRES THAT ALL PERMEABLE PAVEMENTS SHALL INCLUDE AN OVER-DRAIN SYSTEM BUT NO UNDERDRAIN SYSTEM. THESE DESIGN STANDARDS ARE MEANT TO ESTABLISH MINIMUM STORMWATER MANAGEMENT (SWM) TREATMENT REQUIREMENTS AND ARE NOT INTENDED TO PROVIDE GUIDANCE OR REQUIREMENTS FOR ADEQUATE STRUCTURAL DESIGN. APPROPRIATE DESIGN FOR THE ANTICIPATED TRAFFIC LOAD AND USE IS THE RESPONSIBILITY OF THE DESIGN ENGINEER. PERMEABLE PAVEMENTS ARE SUSCEPTIBLE TO CLOGGING. OWNERS ARE TO BE EDUCATED IN PROPER SELECTION AND MAINTENANCE. INCLUDING PROPER TREATMENT FOR FLOOD AND SNOW IN THE WINTER TO ALLOW THE SYSTEM TO FUNCTION PROPERLY. THE USE OF SAFE PAVING MATERIALS WILL DECREASE THE EXPECTED LIFESPAN OF MATERIALS AND MAY NOT BE USED WITHIN THE FIRST 12 MONTHS OF PLACEMENT OF A POURED-IN PLACE PERMEABLE CONCRETE. ALL OTHER RESTRICTIONS SHOULD BE PER MANUFACTURER'S SPECIFICATIONS. APPLICATION OF COARSE SAND ON TOP OF PERMEABLE PAVEMENT WILL REQUIRE VACUUM CLEANING EACH SPRING.

2. MICRO-BIORETENTION
MICRO-BIORETENTION IS A FILTRATION SYSTEM THAT TREATS RUNOFF BY PASSING IT THROUGH A FILTER BED MIXTURE OF SAND, SOIL, AND ORGANIC MATTER. PRINCIPAL COMPONENTS OF THE SYSTEM INCLUDE: A) SURFACE PLANTING WITH WOODY AND HERBACEOUS PLANTS, B) A 2 INCH DEEP 3 INCH THICK MULCH LAYER, C) A 2-4 FOOT PLANTING MEDIUM, D) A 6 INCH THICK SAND LAYER, AND E) PERFORATED PVC PIPE UNDERDRAIN WITHIN A PERMEABLE BED. THE FACILITY SHOULD BE DESIGNED TO MAINTAIN ITS FUNCTION AND APPEARANCE, WHEN PROVIDING ADDITIONAL STORAGE FOR RECHARGE BELOW THE UNDERDRAIN. REFER TO THE ENHANCED FILTER DESIGN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PERMEABLE PAVEMENT SPECIFICATIONS AND DETAILS

1. SIZING
PERMEABLE PAVEMENTS ARE AN AT-SOURCE PRACTICE FOR REDUCING THE EFFECTS OF IMPERVIOUS COVER. THEY SHOULD BE SIZED TO CAPTURE AND STORE 100% OF THE TARGET TREATMENT VOLUME. THE TOTAL TREATMENT STORAGE PROVIDED IN A FACILITY THAT CAN BE CREDITED TOWARDS MEETING THE ESD REQUIREMENT, ESDV, SHALL BE COMPUTED AS THE STORAGE IN THE STONE SUBBASE AND SAND BRIDGING LAYER BELOW THE OVERDRAIN PIPES. COMPUTATIONS SHALL ACCOUNT FOR THE POROSITY (N = 0.30) OF THE STONE AND SAND, TO ACCOUNT FOR CONTINUAL VEHICULAR COMPACTION THAT PERMEABLE PAVEMENT RECEIVE. THE POROSITY OF PERMEABLE PAVEMENTS IS NOT 40% LIKE ALL OTHER ESD PRACTICES. RUNOFF FROM ADJACENT PAVED AND UNPAVED AREAS ONTO PERMEABLE PAVEMENT SHOULD BE LIMITED AND WHENEVER POSSIBLE DIVERTED AWAY. HOWEVER, IN SOME CASES, THIS IS EITHER UNAVOIDABLE DUE TO SITE LAYOUT AND GRADING OR AN INTENTIONAL ELEMENT OF THE DESIGN (SUCH AS TREATING IMPERVIOUS DRIVE ASLES ADJACENT TO PERMEABLE PAVING). WHEN THAT IS THE CASE, THE AMOUNT OF DRAINAGE AREA THAT CAN BE TREATED BY THE PRACTICE IS LIMITED AS FOLLOWS: THE MAXIMUM RATIO OF ADJACENT CONTRIBUTING DRAINAGE AREA TO PERMEABLE PAVING SURFACE AREAS 1:1. SO THE CONTRIBUTING DRAINAGE AREA CANNOT BE GREATER THAN THE PERMEABLE PAVING SURFACE AREA. RUNOFF FROM LANDSCAPED AREAS, FORESTS, AND OTHER PLANTED AREAS CONTAINS ORGANICS THAT HYPEN PAVEMENT CLOGGING AND INCREASE MAINTENANCE COSTS. RUNOFF FROM ADJACENT AREAS WITH THIS TYPE OF COVER SHOULD BE MINIMIZED AS MUCH AS POSSIBLE. WHEN DESIGNED PROPERLY, THE TOTAL STORAGE VOLUME PROVIDED IN THIS PRACTICE, ESDV, CAN INCLUDE THE VOLUME IN STONE AND SAND VOIDS EXTENDED UNDER ADJACENT IMPERVIOUS AREAS. FOR INSTANCE, THE STONE AND SAND VOIDS UNDERNEATH BOTH A PERMEABLE PAVEMENT PARKING BAYS PLUS AN UPLAND ADJACENT IMPERVIOUS ASPHALT DRIVE ASLE CAN COUNT TOWARDS THE TOTAL STORAGE VOLUME PROVIDED. STORAGE IN PERMEABLE PAVEMENTS IN EXCESS OF THAT REQUIRED TO TREAT THE RUNOFF FOR THE 1-YR, 24-HOUR DESIGN STORM (2.6) SHALL NOT BE COUNTED TOWARDS THE ESDV PROVIDED. THEREFORE, AS AN ALTERNATIVE SURFACE WITH A MAXIMUM ALLOWABLE 1:1 ADDITIONAL CONTRIBUTING DRAINAGE AREA, THE MAXIMUM TREATMENT VOLUME IS OFTEN LIMITED TO THE VOLUME ACHIEVED BY THE 1-YR DESIGN STORM.

2. LOCATION
HOTSPOT RUNOFF: PERMEABLE PAVEMENTS SHOULD NOT BE USED TO TREAT HOTSPOTS THAT GENERATE HIGH CONCENTRATIONS OF POLLUTANTS, TRACE METALS, OR TOXICANTS. WHEN ARE FOUND IN TYPICAL STORMWATER RUNOFF AND MAY CONTAMINATE LANDSCAPE. SPECIFIC APPROVAL FROM THE FIRE MARSHAL'S OFFICE IS REQUIRED FOR EACH PERMEABLE PAVEMENT LOCATED IN THE PROPOSED FIRE ACCESS ROUTE. THE STORGE VOLUME FOR ANY PERVIOUS SURFACE SHALL BE LOCATED DOWN GRADIENT OF BUILDING STRUCTURES AND BE SETBACK A MINIMUM OF 100 FEET FROM UNCONFINED WATER SUPPLY WELLS, 25 FEET FROM SEPTIC SYSTEMS, 10 FEET FROM BUILDINGS, AND 10 FEET FROM ANY OTHER TRADING PRACTICE. CLEARANCE FROM SITE UTILITIES SHOULD BE PER THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANIES. WHEN PROPOSED ADJACENT TO SLOPES 15% OR GREATER, A GEOTECHNICAL ENGINEER'S RECOMMENDATION ADDRESSING SOLE STABILITY IS REQUIRED TO BE INCORPORATED INTO THE DESIGN.

3. SOILS
PERMEABLE PAVEMENTS SHALL NOT BE USED IN AREAS OF COMPACTED FILL OR KARST TOPOGRAPHY. SOIL TYPING IS REQUIRED TO DETERMINE THAT PERMEABLE PAVING IS AN APPROPRIATE SWM PRACTICE. SEE MONTGOMERY COUNTY "SOIL TESSING GUIDELINES FOR STORMWATER MANAGEMENT PRACTICES". IN APPLICATIONS EXCEEDING 10,000 F.T. OF TREATED AREA (AREA OF PERMEABLE PAVING PLUS ANY OTHER AREAS DRAINING TO IT), UNDERLYING SOILS SHALL HAVE A MEASURED INFILTRATION RATE (F) OF 0.52 IN/HR. OR GREATER.

4. TOPOGRAPHY
RUNOFF SHALL SHEETFLOW ACROSS PERMEABLE PAVEMENTS AND THE SURFACE MUST SLOPE GRADUALLY (<5%).

5. INSTALLATION
FINAL GRADING FOR INSTALLATION SHALL NOT TAKE PLACE UNTIL THE SURROUNDING SITE IS STABILIZED. IF THIS CANNOT BE ACCOMPLISHED, RUNOFF FROM DISTURBED AREAS SHALL BE DIVERTED AROUND PROPOSED PERMEABLE PAVEMENT LOCATIONS. SOIL SUBGRASSES SHALL NOT BE COMPACTED. CONSTRUCTION SHOULD BE PERFORMED WITH LIGHTWEIGHT, WIDE TRACKED EQUIPMENT TO MINIMIZE COMPACTION.

6. EDGE TREATMENTS
A PERMEABLE NONWOVEN GEOTEXTILE FILTER FABRIC SHALL LINE THE EXCAVATED SIDES TO PREVENT SOIL EROSION. PERMEABLE CONCRETE MUST INCLUDE A 6"RIBBON CURB SURROUNDING ALL EDGES SET AT LEAST AS DEEP AS THE PERMEABLE PAVEMENT LAYER, WHERE SURROUNDED BY CURBING. FURTHER PAVING MUST BE INCLUDED. PERMEABLE PAVERS MUST INCLUDE A FULL GUTTER PAN WHEN SURROUNDED BY CURBING. RIBBON CURBS AROUND OTHER EDGES ARE OPTIONAL BUT ENCOURAGED. RIBBON CURBS ARE NOT REQUIRED FOR PERMEABLE SIDEWALKS.

7. OVER-DRAIN SYSTEMS
ALL PERMEABLE PAVEMENTS SHALL BE DESIGNED WITH SUFFICIENT SUBSURFACE DEPTH TO ENSURE THAT THE TOTAL TREATMENT VOLUME DOES NOT RISE INTO THE PAVEMENT WHERE THE FREEZE/THAW CYCLE COULD DAMAGE THE PAVEMENT. AN OVER-DRAIN SYSTEM SHALL BE INCORPORATED INTO THE DESIGN TO SAFELY CONVEY THE RUNOFF IN EXCESS OF THE TREATMENT VOLUME TO A STABLE OUTFALL. OVER-DRAIN PIPES SHOULD HAVE A MINIMUM OF 12"OF TOTAL COVER TO THE PAVING SURFACE. A 6" LAYER OF STONE MUST BE PLACED BETWEEN THE BOTTOM OF PAVERS AND THE TOP OF THE OVER-DRAIN PIPE. IN ADDITION TO THE GUIDANCE IN THIS DOCUMENT, PIPE PLACEMENT SHOULD MEET MANUFACTURER'S MINIMUM RECOMMENDATIONS. OVER-DRAIN PIPE SHALL BE 4" SCHEDULE 40 PVC OR HDPE N-12 AND PERFORATED WITH 3/8"HOLES 4 INCH ON CENTER. ALL APPLICATIONS, EXCEPT FOR PERMEABLE PAVING, SHALL REQUIRE A 6" LAYER OF STONE TO BE PLACED BETWEEN THE PERMEABLE PAVEMENT CONFIGURATION BUT GENERALLY ONE LINEAR FOOT OF OVER-DRAIN SHOULD COLLECT NO MORE THAN 600 SQ. FT. OF AREA. FOR SLOPED APPLICATIONS THE OVER-DRAIN SYSTEM SHOULD BE PLACED AT THE LOW END OF THE SLOPE. THE TERMINAL END OF ALL OVER-DRAIN PIPES MUST BE CAPPED. THE OVER-DRAIN PIPE MUST HAVE AT LEAST 3"OF STONE SUB-BASE UNDER THE OVER-DRAIN PIPE TO PREVENT MIGRATION OF SAND INTO THE OVER-DRAIN PIPE SYSTEM.

8. STONE SUB-BASE
A SUB-BASE LAYER OF CLEAN, OPEN GRADED, WASHED SILICA STONE MEETING MD SHA COARSE AGGREGATE #7 GRADING REQUIREMENTS SHALL BE USED BELOW THE PAVEMENT LAYER. FILTER FABRIC SHALL NEVER BE USED HORIZONTALLY BETWEEN THE SUB-BASE MATERIAL AND SOIL SUBGRADE.

9. SAND BRIDGING LAYER
A LAYER OF WASHED ASTM C33 FINE AGGREGATE CONCRETE SAND (SEE MCDPS SAND SPECIFICATIONS) SHALL BE USED AS A BRIDGING LAYER BETWEEN THE TREATMENT STORAGE VOLUME AND SOIL SUBGRADE.

10. SOIL SUBGRADE
THE SOIL SUBGRADE SHALL BE PROOF ROLLED PER SITE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND SCARIFIED PRIOR TO PLACEMENT OF SUB-BASE MATERIALS. THE BOTTOM OF THE SAND LAYER SHALL BE LEVEL SO THAT RUNOFF WILL BE ABLE TO INFILTRATE EVENLY THROUGH THE ENTIRE SURFACE. IF A LEVEL SOIL SUBGRADE CANNOT BE ACHIEVED, THEN THE SUBGRADE MAY BE STEPPED (SEE STEPPED SOIL SUBGRADE DETAIL) WITH THE USE OF LATERAL FLOW BARRIERS BETWEEN EACH CELL TO CONTAIN RUNOFF AND PREVENT EROSION OF THE SOIL SUBGRADE. IN THIS CASE THE MAXIMUM ALLOWABLE SUBGRADE SLOPE IS 5% AND THE MAXIMUM CREDITABLE AVERAGE DEPTH OF TREATMENT STORAGE IS STILL 12"PER CELL.

11. LATERAL FLOW BARRIERS
LATERAL FLOW BARRIERS OF COMPACTED SUITABLE SOIL, FRAMING WRAPPED IN 30-MIL PLASTIC, OR OTHER ENGINEER DESIGN BARRIER TO LATERAL FLOW MUST SEPARATE CELLS THAT DO NOT SHARE THE SAME SOIL SUBGRADE ELEVATION. THE LATERAL FLOW BARRIERS ARE THAT PORTION OF THE PRACTICE THAT FORCE THE PONDING OF WATER ACROSS SLOPED INSTALLATIONS. SEE STEPPED SOIL SUBGRADE DETAILS. WATER WILL ONLY POND IN THAT PORTION OF THE STONE SUB-BASE THAT IS BELOW THE OVER-DRAIN PIPE. THE MAXIMUM AVERAGE CREDITABLE DEPTH OF STORAGE IS 12" OVER SUB-BASE APPLICATIONS THE MAXIMUM DEPTH OF WATER PONDING AGAINST A LATERAL FLOW BARRIER IF 24".

12. PLANTING
TO MINIMIZE THE POTENTIAL FOR CLOGGING, PLANTING ADJACENT TO PERMEABLE PAVEMENTS SHOULD BE DESIGNED WITH DEBRIS AND MAINTENANCE IN MIND. TREES WITH NEEDLES, AND OTHER EVERGREEN SPECIES SHOULD BE AVOIDED AS WELL AS PLANTING BEDS THAT REQUIRE FREQUENT MULCHING. PERMEABLE PAVEMENT SHOULD NOT BE PLACED IN APPLICATIONS IN FORESTS OR IMMEDIATELY DOWNSTREAM OF HIGHLY VEGETATED AREAS, E.G. PARK PATHS, WHERE THEY ARE LIKELY TO CLOG.

13. MAINTENANCE & SIGNGAGE
PERMEABLE PAVEMENTS ARE SUSCEPTIBLE TO CLOGGING. OWNERS ARE TO BE EDUCATED IN PROPER SYSTEM MAINTENANCE, INCLUDING PROPER TREATMENT FOR FLOOD AND SNOW IN THE WINTER TO ALLOW THE SYSTEM TO FUNCTION PROPERLY. USE OF SALTS ON PERMEABLE PAVEMENT WILL DECREASE THE EXPECTED LIFESPAN OF MATERIALS AND MAY NOT BE USED WITHIN THE FIRST 12 MONTHS OF PLACEMENT OF A POURED-IN PLACE PERMEABLE CONCRETE. ALL OTHER RESTRICTIONS SHOULD BE PER MANUFACTURER'S SPECIFICATIONS. APPLICATION OF COARSE SAND ON TOP OF PERMEABLE PAVEMENT WILL REQUIRE VACUUM CLEANING EACH SPRING. ALL MAINTENANCE AND SIGNGAGE SHALL BE DONE IN ACCORDANCE WITH MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) GUIDELINES. SIGNGAGE WILL BE REVIEWED AS A PART OF THE SWM PLAN TECHNICAL REVIEW.

14. POST-CONSTRUCTION
POURED IN PLACE CONCRETE MUST REMAIN FREE FROM ALL LIGHT VEHICULAR TRAFFIC, FOR A MINIMUM OF 7 DAYS. HEAVY VEHICULAR TRAFFIC MUST BE RESTRICTED FOR AT LEAST 30 DAYS AFTER PLACEMENT. POST CONSTRUCTION INFILTRATION RATES REQUIRED FOR ALL SURFACES MUST CONFORM TO ASTM C1701 FOR POURED IN PLACE PERMEABLE CONCRETE, OR ASTM C1781 FOR PERMEABLE PAVING. INFILTRATION RATE AND SPECIFIC TEST LOCATIONS MUST BE SUBMITTED ALONG WITH THE STORMWATER MANAGEMENT "AS-BUILT PLAN". PERMEABLE PAVEMENT MUST BE VACUUM CLEANED AND PAVER JOINTS REFILLED AS NECESSARY PRIOR TO FINAL INSPECTION.

MICROBIORETENTION /PLANTER BOX SPECIFICATIONS AND DETAILS

1. SIZING
THE FACILITY SHALL BE SIZED TO CAPTURE AND STORE 100% OF THE TARGET TREATMENT VOLUME. A MINIMUM OF 6"AND MAXIMUM OF 12" OF SURFACE PONDING MUST BE PROVIDED ABOVE THE FILTER MEDIA. THE SURFACE AREA (AF) OF A MICRO-BIORETENTION PRACTICE SHALL BE AT LEAST 2% OF THE TOTAL STORAGE PROVIDED IN THE FACILITY. PLANTING MEDIUM SHALL BE BETWEEN 12" AND 18" DEEP. THE TOTAL STORAGE PROVIDED IN THE FACILITY SHALL BE COMPUTED AS THE STORAGE PROVIDED IN THE TEMPORARY PONDING AREA AND THE STORAGE PROVIDED IN THE PLANTING MEDIA AND SAND LAYER. PLANTING MEDIA SHALL ACCOUNT FOR THE POROSITY (N = 0.40) OF THE PLANTING MEDIA AND SAND. STORAGE PROVIDED IN EXCESS OF THAT REQUIRED TO TREAT THE RUNOFF FOR THE 1 YEAR, 24-HOUR DESIGN STORM SHALL NOT BE COUNTED TOWARDS THE TOTAL ESDV PROVIDED. TO THE EXTENT POSSIBLE, FACILITIES SHOULD HAVE IRREGULAR OUTLINES TO BLEND NATURALLY INTO THE ENVIRONMENT. RECTANGULAR IS NOT NATURAL.

2. INFLOW DESIGN CRITERIA
RUNOFF SHALL ENTER THE MICRO-BIORETENTION FACILITY IN A NON-EROSIVE MANNER LESS THAN 2 FPS. INFLOW MAY BE THROUGH DEPRESSIONED CURBS WITH WHEEL STOPS, CURB CUTS, LEVEL SPREADERS, BUBBLERS, OR CONVEYED DIRECTLY USING DOWNSPOTS, COVERED DRAINS, CATCH BASINS, OVER-GRASS, OR OTHER ACCEPTABLE CONVEYANCE METHODS. PARTICULAR CARE MUST BE TAKEN TO PREVENT EROSION OF THE SURFACE MULCH LAYER.

3. OVERFLOW DESIGN CRITERIA
IF AN INTERNAL OVERFLOW DEVICE IS NEEDED, A YARD INLET OR DOME CAP INLET MAY BE USED. DOME INLET CAPS MAY BE STACKED ON TOP OF CLEAN-OUTS TO SERVE AS THE OVERFLOW. CLEAN-OUTS SHALL BE DESIGNED TO ALLOW THE OVERFLOW TO BE THE INVERT OF THE DOWNED CAP MUST BE SET AT THE DESIGN STORAGE LEVEL. OVERFLOW DEVICES CANNOT FEED INTO PERFORATED PIPE SECTIONS. A SAFE NON-EROSIVE OUTFALL MUST BE PROVIDED. SAFE CONVEYANCE OF THE DEVELOPED 10-YEAR STORM THROUGH THE FACILITY MUST BE DEMONSTRATED.

4. UNDERDRAIN PIPE
A MINIMUM 6 INCH FINE AGGREGATE SAND LAYER SHALL BE PROVIDED BELOW THE PLANTING MEDIUM. ASTM C33 OR AASHTO M6 FINE AGGREGATE CONCRETE SAND IS REQUIRED PER MONTGOMERY COUNTY SAND SPECIFICATIONS.

5. GRAVEL BED
THE GRAVEL LAYER SURROUNDING THE UNDERDRAIN PIPE(S) MUST MEET MSHA SIZE #7 (TABLE 901A), AND MUST PROVIDE A MINIMUM OF 6 INCHES COVER OVER THE PIPE(S), AND MINIMUM 8 INCHES UNDER THE PIPE. NO GEOTEXTILE OR FILTER FABRIC IS ALLOWED TO BE PLACED HORIZONTALLY ANYWHERE WITHIN THE FILTER MEDIA. THE GRAVEL MUST BE CLEAN AND MUST BE STORED AND INSTALLED IN SUCH A MANNER THAT IT DOES NOT BECOME CONTAMINATED WITH SEDIMENT BEFORE OR AFTER INSTALLATION.

6. SAND BED
THE SAND LAYER SURROUNDING THE UNDERDRAIN PIPE(S) MUST MEET MSHA SIZE #7 (TABLE 901A), AND MUST PROVIDE A MINIMUM OF 6 INCHES COVER OVER THE PIPE(S), AND MINIMUM 8 INCHES UNDER THE PIPE. NO GEOTEXTILE OR FILTER FABRIC IS ALLOWED TO BE PLACED HORIZONTALLY ANYWHERE WITHIN THE FILTER MEDIA. THE SAND MUST BE CLEAN AND MUST BE STORED AND INSTALLED IN SUCH A MANNER THAT IT DOES NOT BECOME CONTAMINATED WITH SEDIMENT BEFORE OR AFTER INSTALLATION.

7. PLANTING MEDIUM
THE PLANTING MEDIUM SHALL BE 24"-48" THICK AND SHALL CONSIST OF 1/3 PERLITE OR BULTE, 1/3 COMPOST AND 1/3 TOPSOIL. THE PERLITE SHALL BE COARSE GRADE HORTICULTURAL PERLITE. THE COMPOST SHALL BE HIGH GRADE COMPOST FREE OF STONES AND PARTIALLY COMPOSTED WOODY MATERIAL. THE TOPSOIL COMPONENT SHALL MEET THE FOLLOWING CRITERIA: CONTAIN NO MORE THAN 10% CLAY, 10-25% SILT, AND 60-75% SAND AND BE FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2".

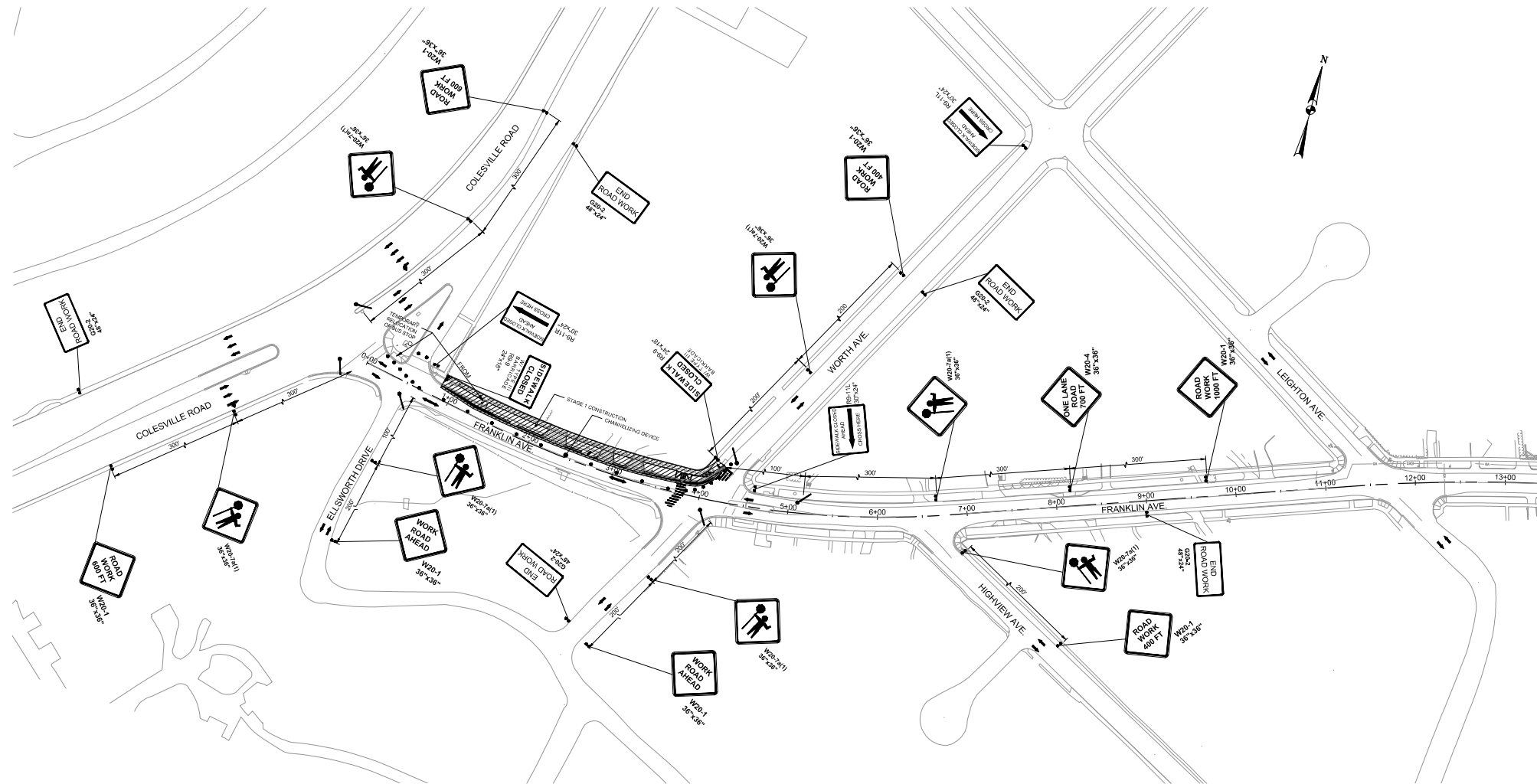
THE FIRST LAYER OF THE PLANTING MEDIUM SHALL BE LIGHTLY TILLED TO MIX IT TO THE 6-INCH SAND LAYER. SO AS NOT TO CREATE A DEFINITIVE BARRIER, THE PLANTING BED SHALL BE FLOODED AFTER PLACEMENT. ANY SETTLEMENT THAT OCCURS SHALL BE FILLED BACK TO THE DESIGN ELEVATION.

8. MULCH
THE MULCH LAYER IS AN IMPORTANT PART OF THE MICRO-BIORETENTION DEVICE. MUCH OF THE POLLUTANT REMOVAL CAPACITY OF THE MICRO-BIORETENTION SYSTEM IS WITHIN THE MULCH LAYER. THE SURFACE MULCH LAYER WILL CONSIST OF STANDARD DOUBLE SHREDDED AGED HARDWOOD MULCH. THE MULCH SHOULD BE APPLIED UNIFORMLY TO A DEPTH OF 3 INCHES. YEARLY REPLENISHING MAY BE NECESSARY. PINE BARK IS NOT ACCEPTABLE.

9. PLANT MATERIALS
PLANTS, THROUGH THEIR POLLUTANT UPTAKE AND EVAPO-TRANSPIRATION OF STORMWATER RUNOFF, PLAY A KEY ROLE IN THE OVERALL EFFECTIVENESS OF THE MICRO-BIORETENTION DEVICE. BOTH THE NUMBER AND TYPE OF TREE AND SHRUB PLANTINGS FOR THE SYSTEM MAY VARY. ESPECIALLY WHERE AESTHETICS OR OTHER CONSIDERATIONS ARE CRITICAL TO SITE DEVELOPMENT, WHILE NATIVE PLANTS ARE ENCOURAGED, THEY ARE NOT ALWAYS APPROPRIATE. PLANTS SHOULD BE SELECTED BASED ON PLANTING REQUIREMENTS. PLANTS SHOULD BE TREES, SHRUBS AND HERBACEOUS MATERIALS. HOWEVER, THERE SHOULD BE 2 TO 3 SHRUBS PLANTED PER TREE AND HERBACEOUS PLANTINGS SHALL MAKE UP 40% OF THE TOTAL NUMBER OF PLANTS. TREES SHALL BE A MINIMUM OF 1 1/2 IN. CALIPER. SHRUBS SHALL BE MINIMUM 2 GAL. SIZE AND HERBACEOUS PLANTS SHALL BE A MINIMUM 1 GAL. SIZE. MATURE PLANT CANOPY SHOULD COVER 85% OF THE MICRO-BIORETENTION DEVICE. ALTERNATIVE PLANTING SCHEMES, INCLUDING USE OF GRASSES, MAY BE CONSIDERED IN SOME SITUATIONS, SO LONG AS THE PLANTING PLAN IS DESIGNED BY A REGISTERED LANDSCAPE ARCHITECT REGISTERED IN THE STATE OF MARYLAND. HOWEVER, MANY GRASSES ARE NOT APPROPRIATE FOR THESE FACILITIES. ALL PLANTINGS SHALL BE IN ACCORDANCE WITH THE MONTGOMERY COUNTY LANDSCAPE GUIDELINES. ALL LANDSCAPE PLANS MUST BE SEALED BY A REGISTERED LANDSCAPE ARCHITECT. SINCE THE MICRO-BIORETENTION FACILITY IS AN INTEGRAL PART OF THE MICRO-BIORETENTION SYSTEM, NO CHANGES TO THE APPROVED LANDSCAPE PLAN WILL BE ALLOWED UNLESS AN ALTERNATE PLANT LIST, PREPARED BY A REGISTERED LANDSCAPE ARCHITECT, HAS BEEN APPROVED BY DPS PRIOR TO INSTALLATION. SITE PLANTING QUALITY OF CARE CHANGE, DPS SUGGESTS INCLUDING AN ALTERNATE PLANT LIST ON THE LANDSCAPING PLANS.

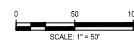


OWNER/ADDRESS DEPARTMENT OF TRANSPORTATION 100 EDITIONS PARK DRIVE GAITHERSBURG, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY, DEPARTMENT OF PERMITTING SERVICES APPROVED FOR: Stormwater Management		Submittal Control Technical Requirements		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS AS-BUILT REVIEW. Administrative Requirements		FRANKLIN AVENUE SIDEWALK STORMWATER MANAGEMENT NOTES	
CONTACT: DIVISION OF TRANSPORTATION ENGINEERING CONSTRUCTION SECTION 240-777-7210 DESIGN SECTION 240-777-7221		RECOMMENDED FOR APPROVAL		Reviewed Date		Approved Date		Reviewed Date		SCALE: AS SHOWN	
Chief Design Section		Date		Reviewed		Date		Reviewed		SWM-08	
Approved		Date		Reviewed		Date		Reviewed		Project No. 12-20-22	
Chief Design of Transportation Engineering		Date		Approved		Date		Reviewed		Project No. 12-20-22	
Designed by		Drawn by		Checked by		Quality		Reviewed		Project No. 12-20-22	



MOT LEGEND:

- WORK ZONE
CHANNELIZING DEVICE
(DRUMS & CONES)
SIGN SUPPORT & POST
TYPE III BARRICADE
FLAGGER
DIRECTION OF TRAFFIC DURING
CONSTRUCTION



**Engineers, Architects
Development Consultants**
19525 Shady Grove Road, Rockville, MD, 20850
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www.dcfassociates.com

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

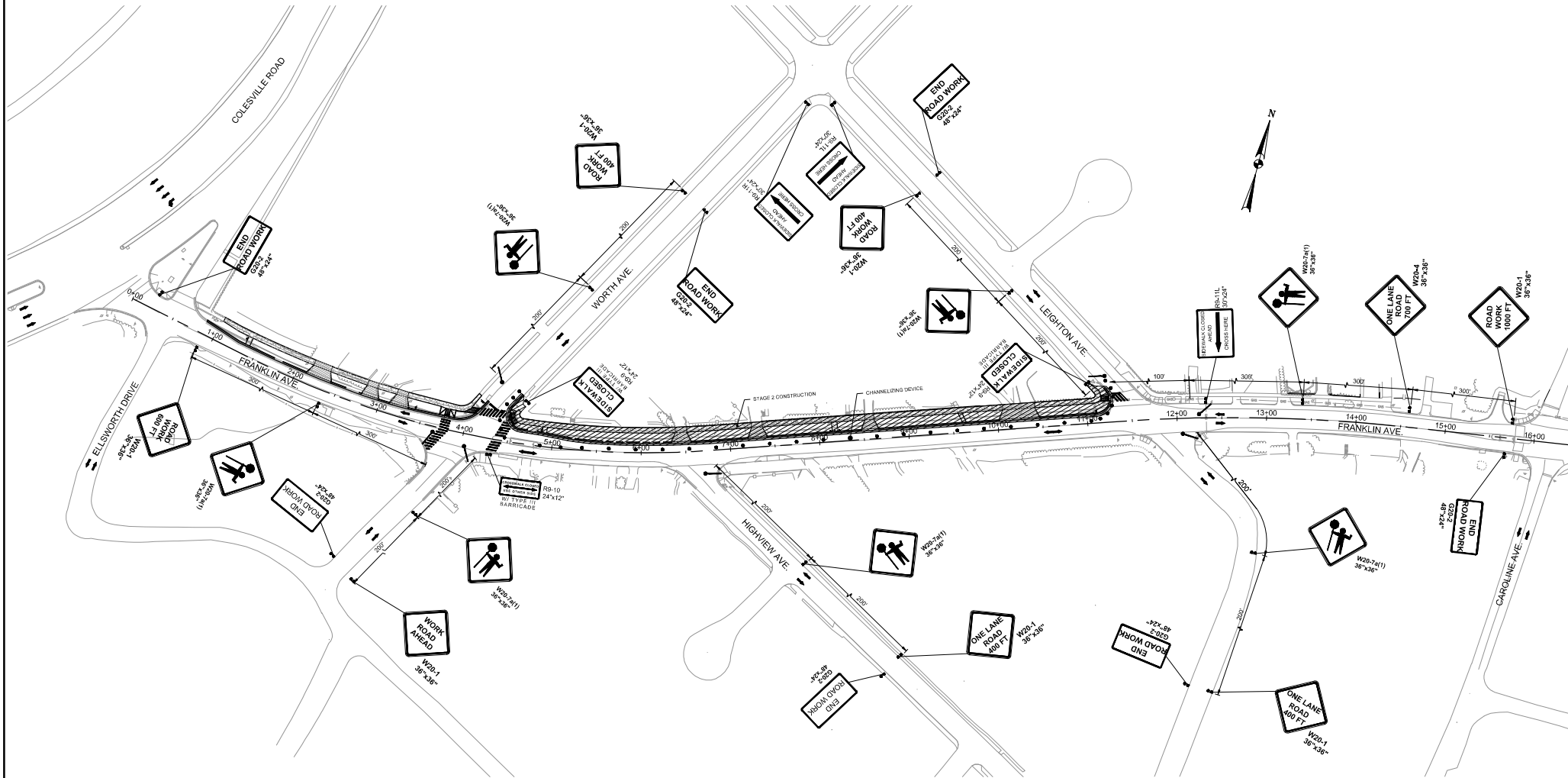
Chief, Division of Transportation

Designed by: _____ Drawn by: _____ Checked by: _____

FRANKLIN AVENUE
SIDEWALK
MAINTENANCE OF TRAFFIC
STAGE - 1

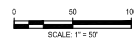
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MT - 02



MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION



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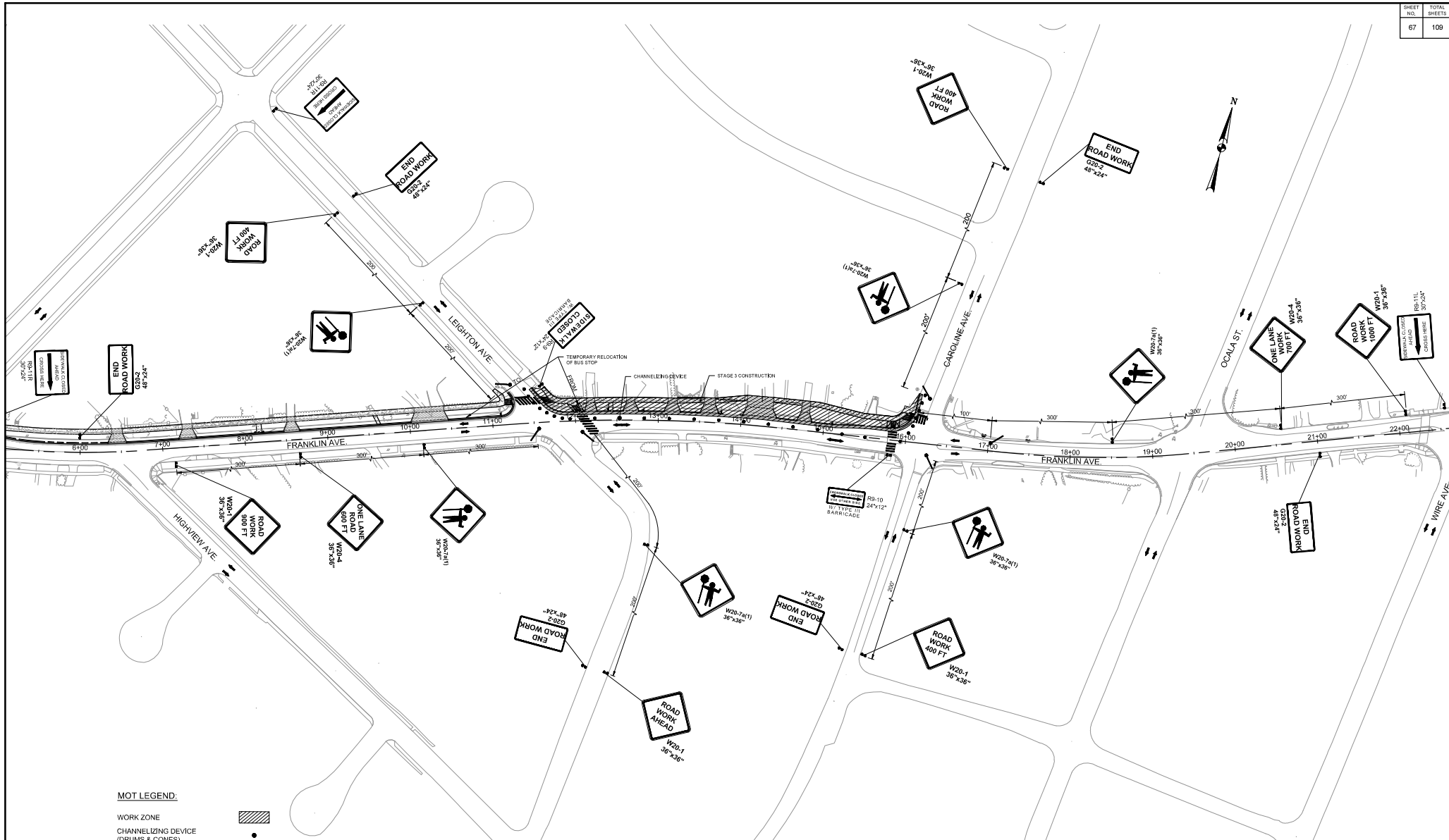
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation	Date
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Checked by: _____	

FRANKLIN AVENUE SIDEWALK MAINTENANCE OF TRAFFIC STAGE - 2

SCALE: 1" = 50'

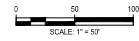
Project No.: 180 of 109

MT - 03



MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION



**Engineers, Architects
Development Consultants**

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Phone: 301.440.4000 Fax: 301.440.7174
www.sshelad.com

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

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Chief, Design Section

APPROVED _____ Date _____

Chief, Division of Transportation

Designed by: _____ Drawn by: _____ Checked by: _____

FRANKLIN AVENUE SIDEWALK MAINTENANCE OF TRAFFIC STAGE - 3

SCALE: 1" = 50'

Project No.: 100
Sheet No.: 67
of 109

MT - 04

MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION

FRANKLIN AVENUE SIDEWALK MAINTENANCE OF TRAFFIC STAGE - 4

SCALE: 1" = 50'

SEE TITLE SHEET FOR SIGNATURES

Montgomery County Department of Transportation
Rockville, Maryland

Engineers, Architects
Development Consultants

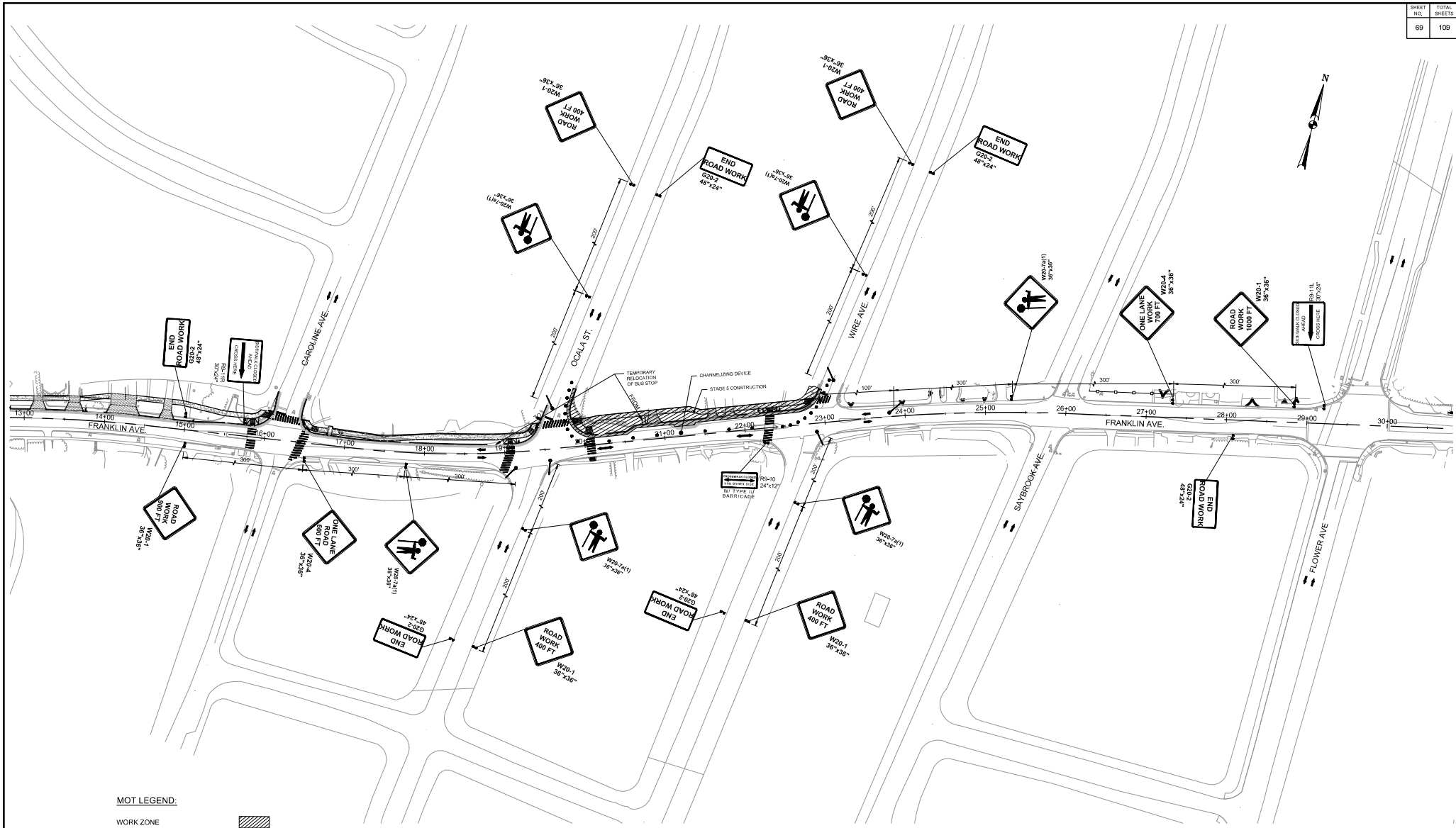
1001 Shady Grove Road, Rockville, MD, 20850
Phone: 301-455-0000 Fax: 301-455-0001
www.civilnet.com

NO. 1001-0001 DATE 10/1/00 BY

RECOMMENDED FOR APPROVAL
Chief, Design Section Date
APPROVED
Chief, Design of Transportation Date

Project No. 1001-0001 of 1001

MT - 05



MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION



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SCALE: 1" = 50'



NO.	REVISION	DATE	BY

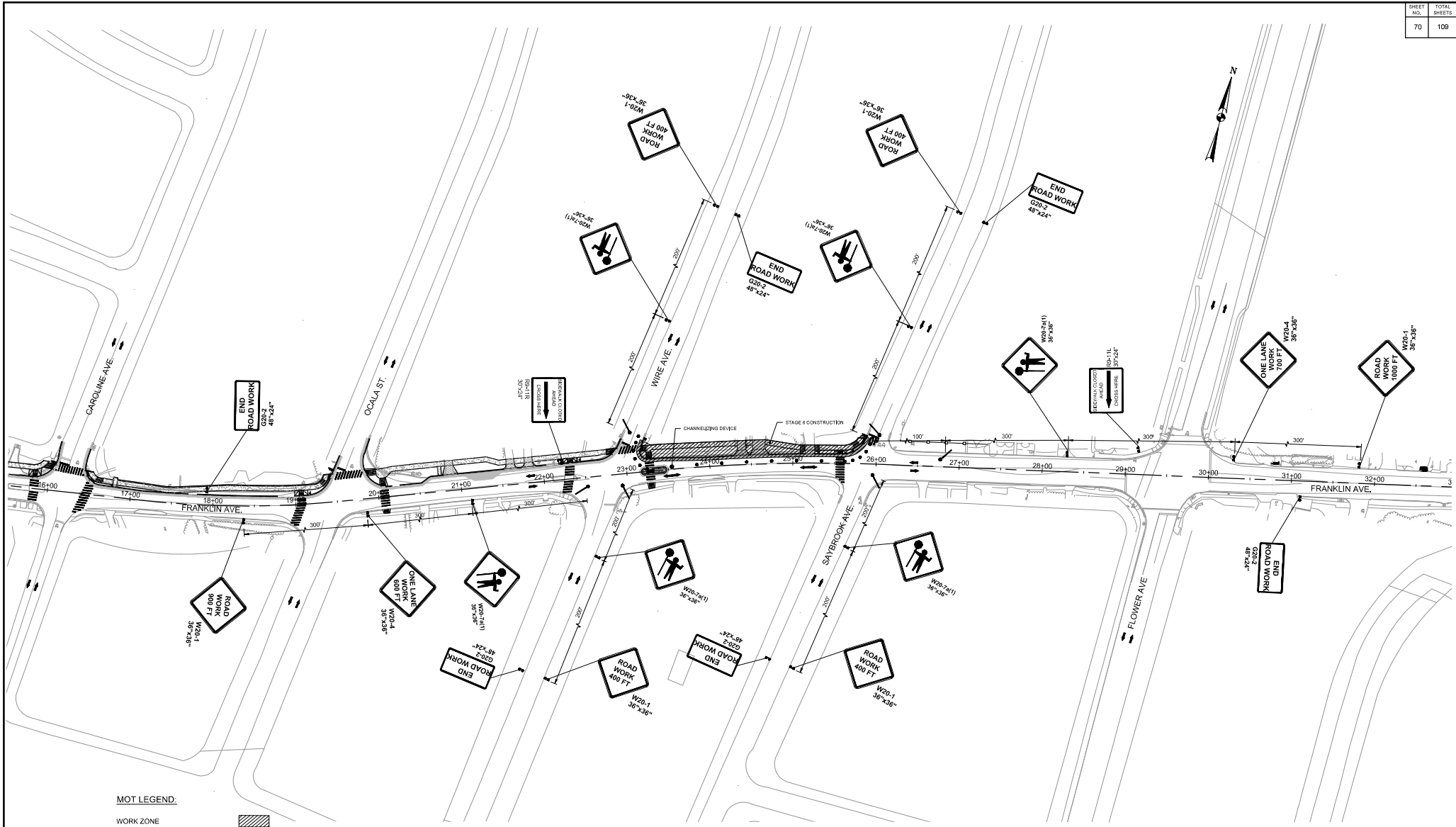
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RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	
APPROVED	Date
Chief, Division of Transportation	
Designed by:	Drawn by:

**FRANKLIN AVENUE
SIDEWALK
MAINTENANCE OF TRAFFIC
STAGE - 5**

SCALE: 1" = 50'

Project No.: 03 of 109

MT - 06



MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION



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SCALE: 1" = 50'



NO.	REVISION	DATE	BY

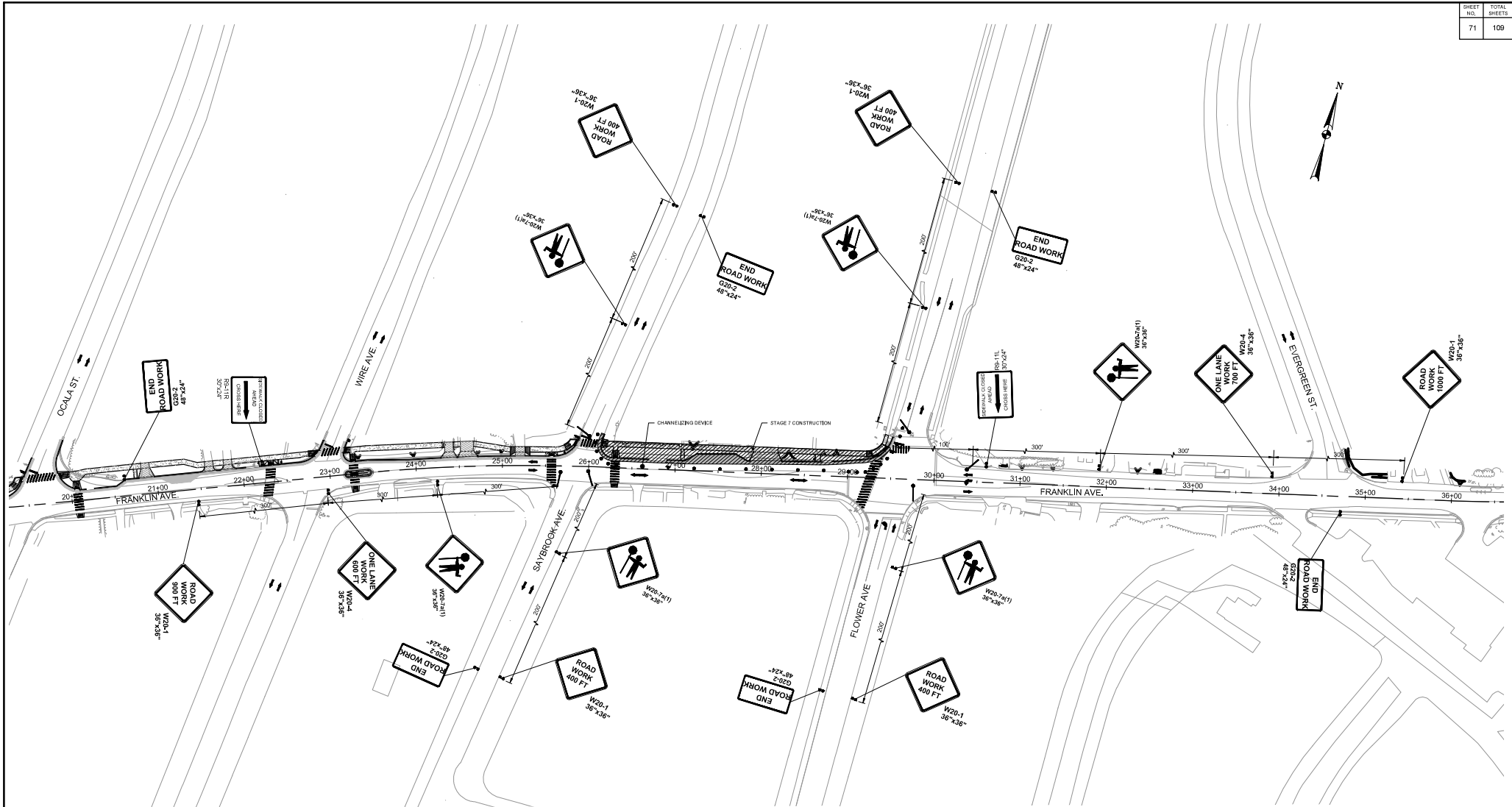
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RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	
APPROVED	Date
Chief, Division of Transportation	
Designed by:	Drawn by:
	Checked by:

**FRANKLIN AVENUE
SIDEWALK
MAINTENANCE OF TRAFFIC
STAGE - 6**

SCALE: 1" = 50'

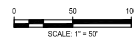
MT - 07

Project No.:



MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION



NO.	REVISION	DATE	BY

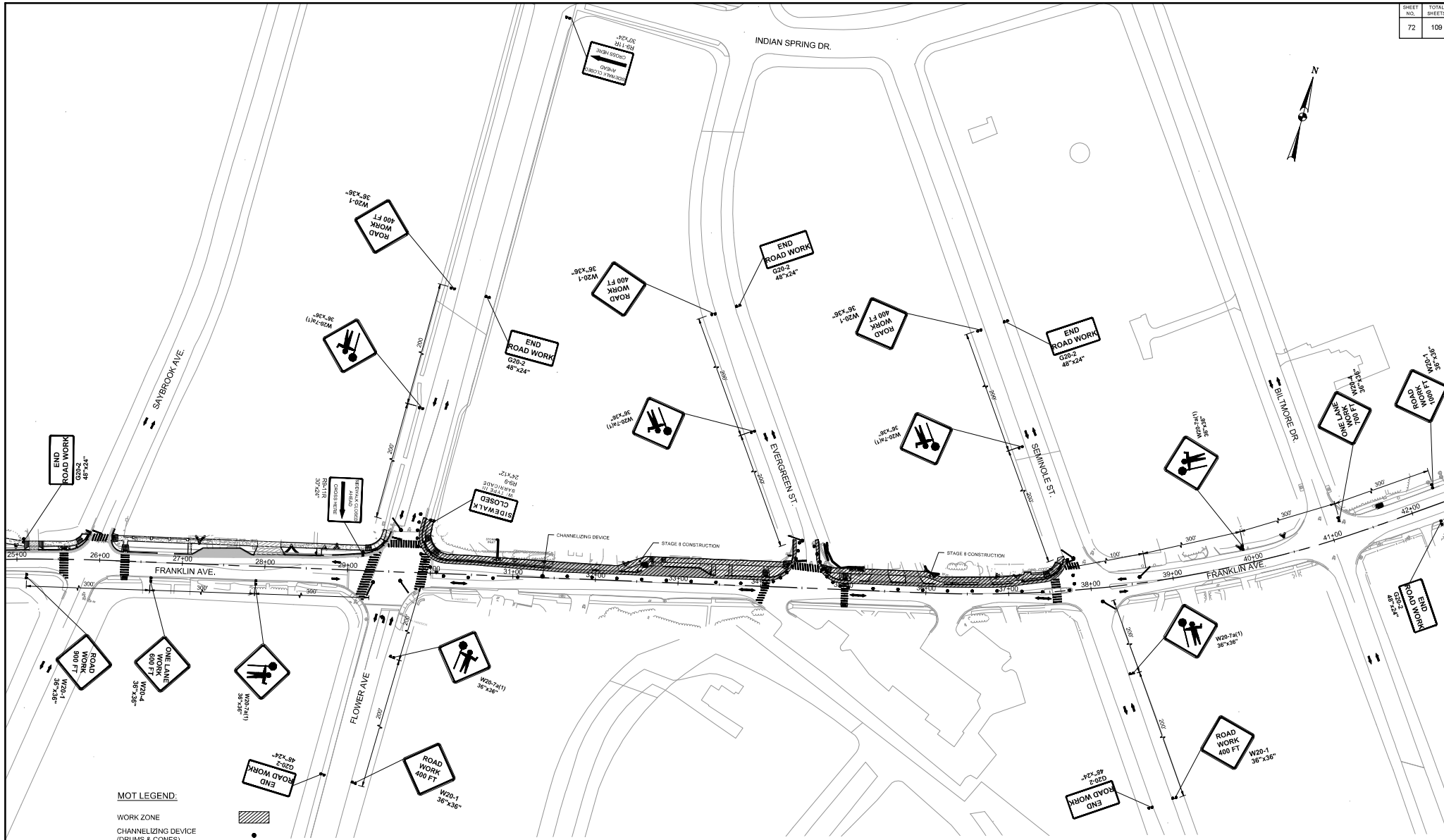
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	
APPROVED	Date
Chief, Division of Transportation	
Designed by: _____	Drawn by: _____
Checked by: _____	

**FRANKLIN AVENUE
SIDEWALK
MAINTENANCE OF TRAFFIC
STAGE - 7**

SCALE: 1" = 50'

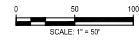
Project No.: 100 of 109

MT - 08



MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION



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 1819 South Grand Road, Rockville, MD 20850
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 www.sheldons.com

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MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL _____ Date _____

Chief Design Section
 APPROVED _____ Date _____

Chief Division of Transportation
 _____ Date _____

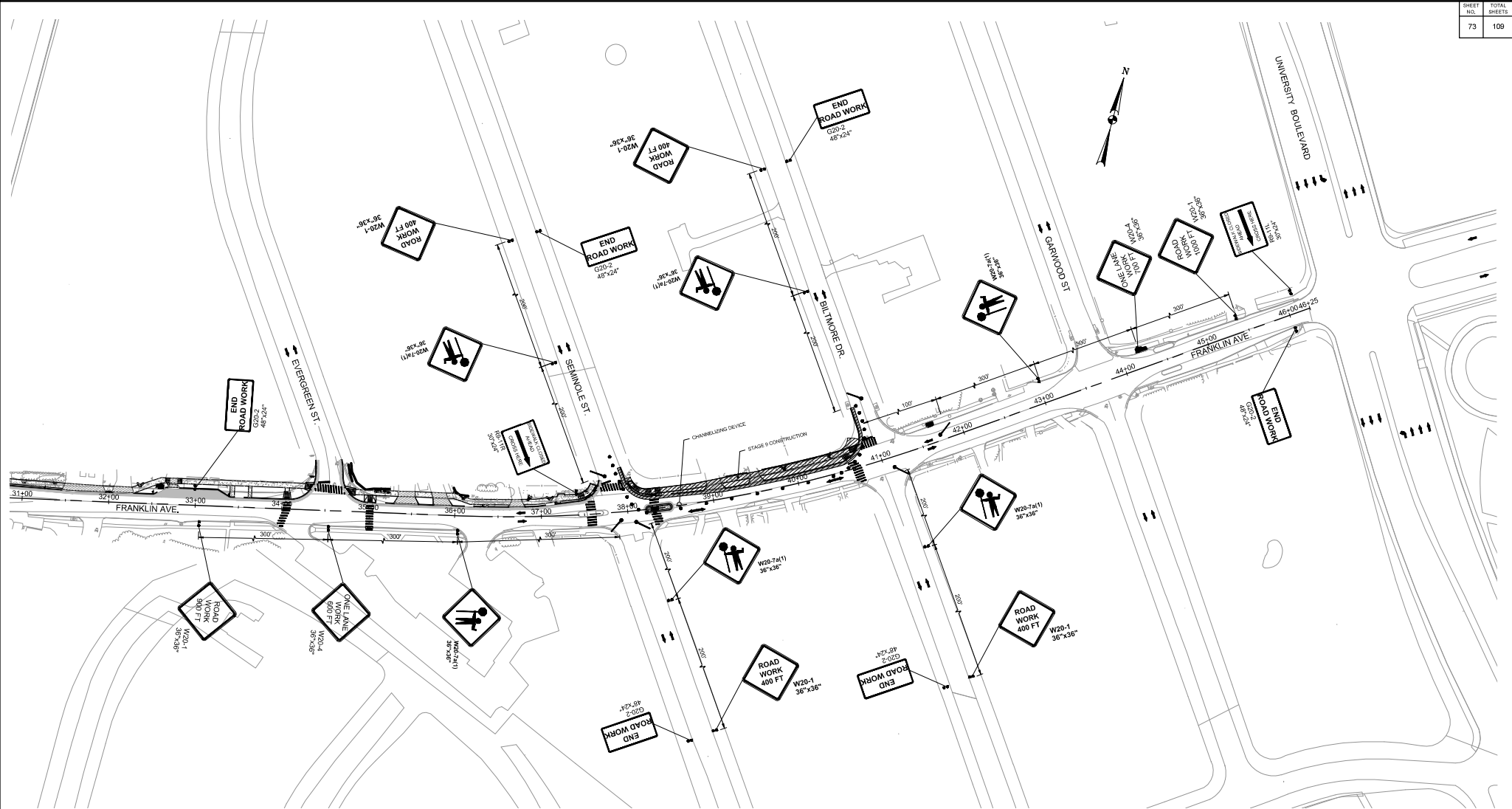
Designed by: _____ Drawn by: _____ Checked by: _____

**FRANKLIN AVENUE
 SIDEWALK
 MAINTENANCE OF TRAFFIC
 STAGE - 8**

SCALE: 1" = 50'

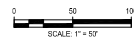
Project No.: of

MT - 09



MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION



SCALE: 1" = 50'



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date: _____
Chief, Design Section	
APPROVED	Date: _____
Chief, Division of Transportation	
Designed by: _____	Drawn by: _____
Checked by: _____	

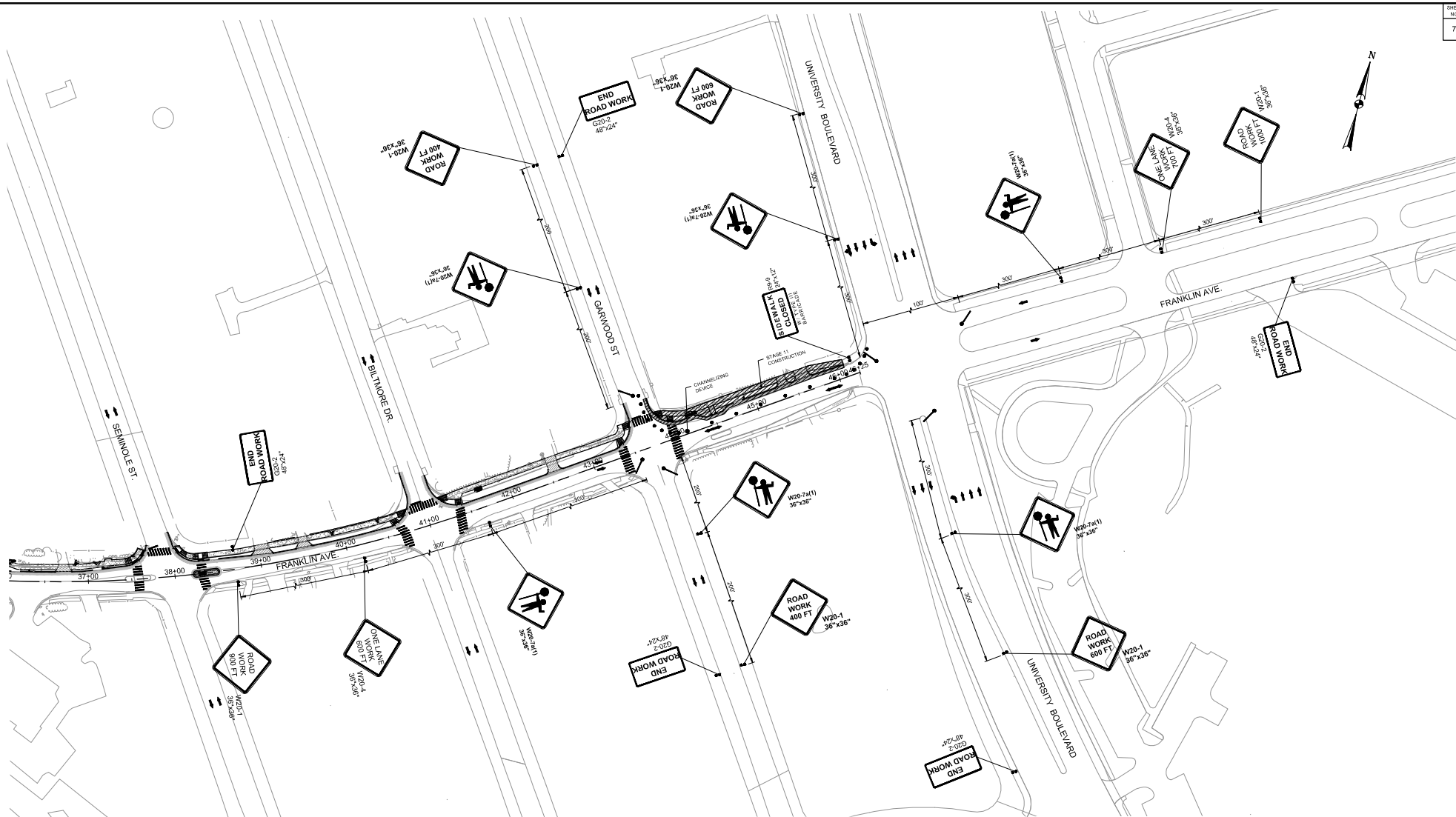
**FRANKLIN AVENUE
SIDEWALK
MAINTENANCE OF TRAFFIC
STAGE - 9**

SCALE: 1" = 50'

Project No.: 15547

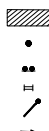
MT - 10

of 109



MOT LEGEND:

- WORK ZONE
- CHANNELIZING DEVICE (DRUMS & CONES)
- SIGN SUPPORT & POST
- TYPE III BARRICADE
- FLAGGER
- DIRECTION OF TRAFFIC DURING CONSTRUCTION



0 50 100
SCALE: 1" = 50'



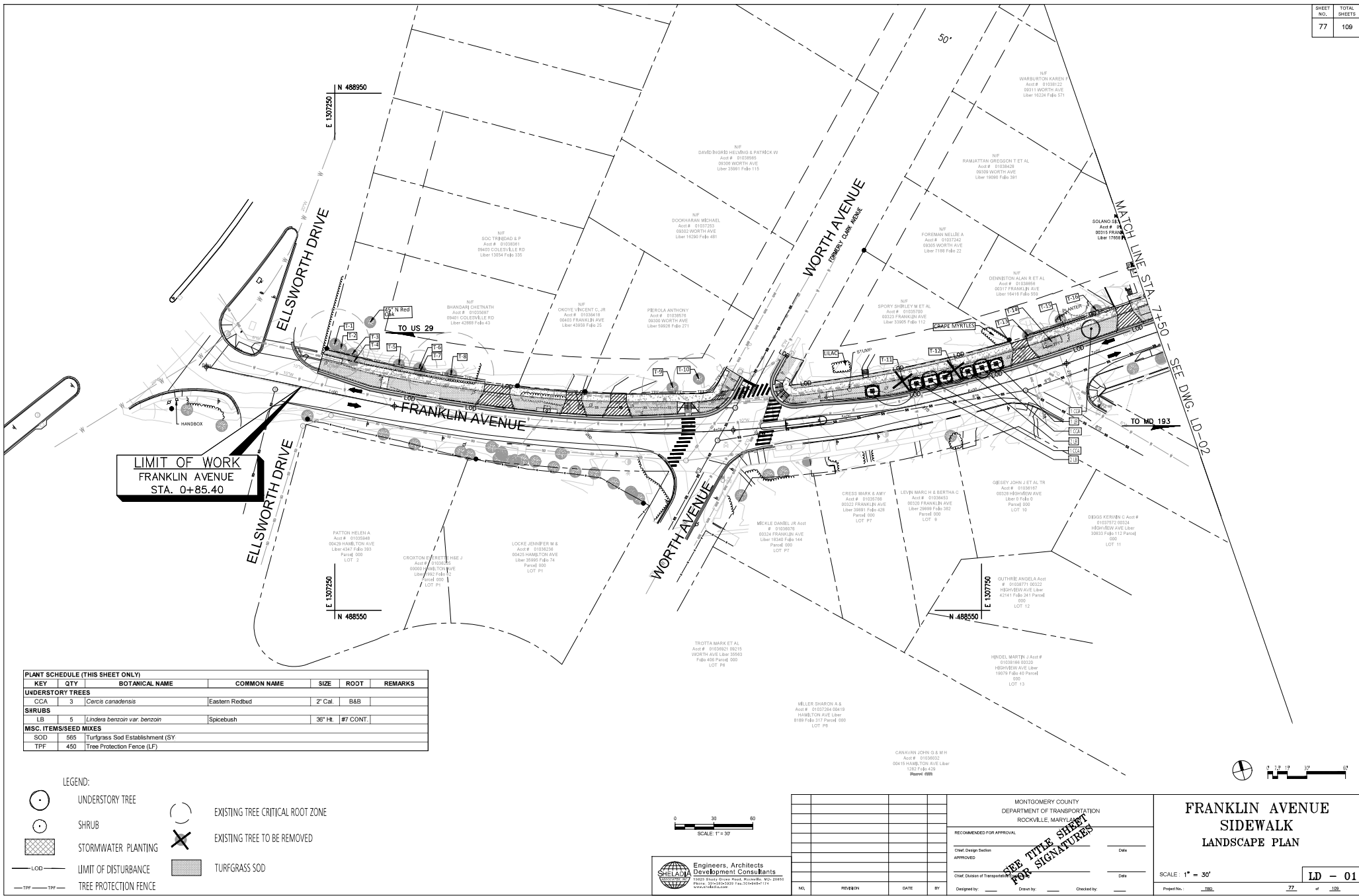
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	
APPROVED	Date
Chief, Division of Transportation	
Designed by:	Drawn by:
	Checked by:

FRANKLIN AVENUE SIDEWALK MAINTENANCE OF TRAFFIC STAGE - 11

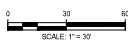
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MT - 12



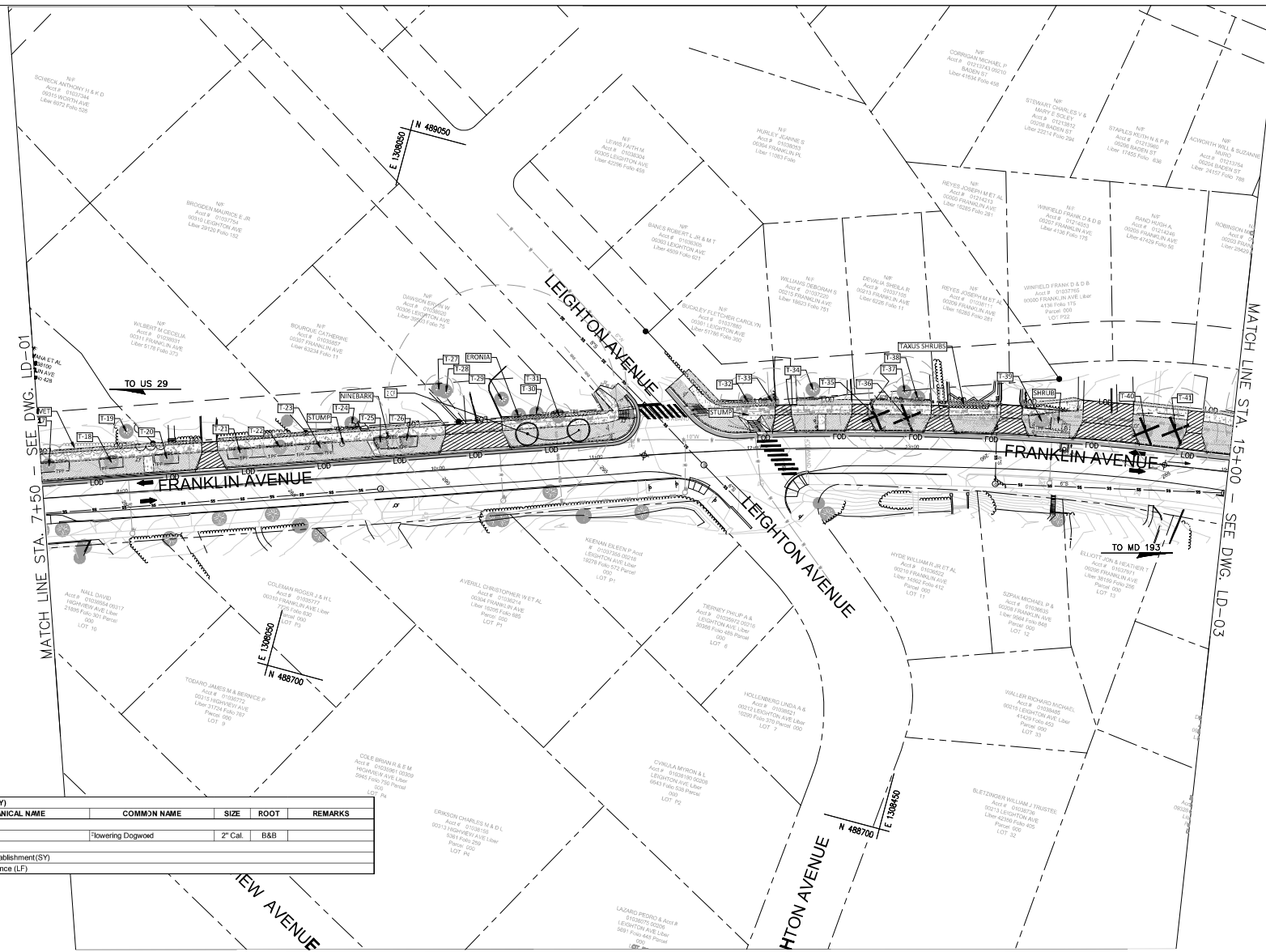
PLANT SCHEDULE (THIS SHEET ONLY)						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
UNDERSTORY TREES						
CCA	3	Cercis canadensis	Eastern Redbud	2" Cal.	B&B	
SHRUBS						
LB	5	Lindera benzoin var. benzoin	Spicebush	36" Ht.	#7 CONT.	
MSC. ITEMS/SEED MIXES						
SOD	565	Turfgrass Sod Establishment (SY)				
TPF	450	Tree Protection Fence (LF)				

- LEGEND:
- UNDERSTORY TREE
 - SHRUB
 - STORMWATER PLANTING
 - LIMIT OF DISTURBANCE
 - TREE PROTECTION FENCE
 - EXISTING TREE CRITICAL ROOT ZONE
 - EXISTING TREE TO BE REMOVED
 - TURFGRASS SOD



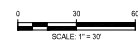
**Engineers, Architects
Development Consultants**
1700 South Green Road, Rockville, MD 20850
 Phone: 301-251-3333 Fax: 301-444-1174
www.sheiao.com

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL Chief, Design Division APPROVED _____ Date _____ Chief, Division of Transportation DESIGNED BY _____ Drawn by _____ Checked by _____		SEE TITLE SHEET FOR SIGNATURES	
SCALE: 1" = 30' LD - 01		Project No.: <u>380</u> 77 of 109	



PLANT SCHEDULE (THIS SHEET ONLY)						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
UNDERSTORY TREES						
UT	2	<i>Cornus florida</i>	Flowering Dogwood	2" Cal.	B&B	
MISC. ITEMS/SEED MIXES						
SOD	812	Turfgrass Sod Establishment(SY)				
TPF	628	Tree Protection Fence (LF)				

- LEGEND:
- UNDERSTORY TREE
 - SHRUB
 - STORMWATER PLANTING
 - LIMIT OF DISTURBANCE
 - TREE PROTECTION FENCE
 - EXISTING TREE CRITICAL ROOT ZONE
 - EXISTING TREE TO BE REMOVED
 - TURFGRASS SOD



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www.aedusa.com

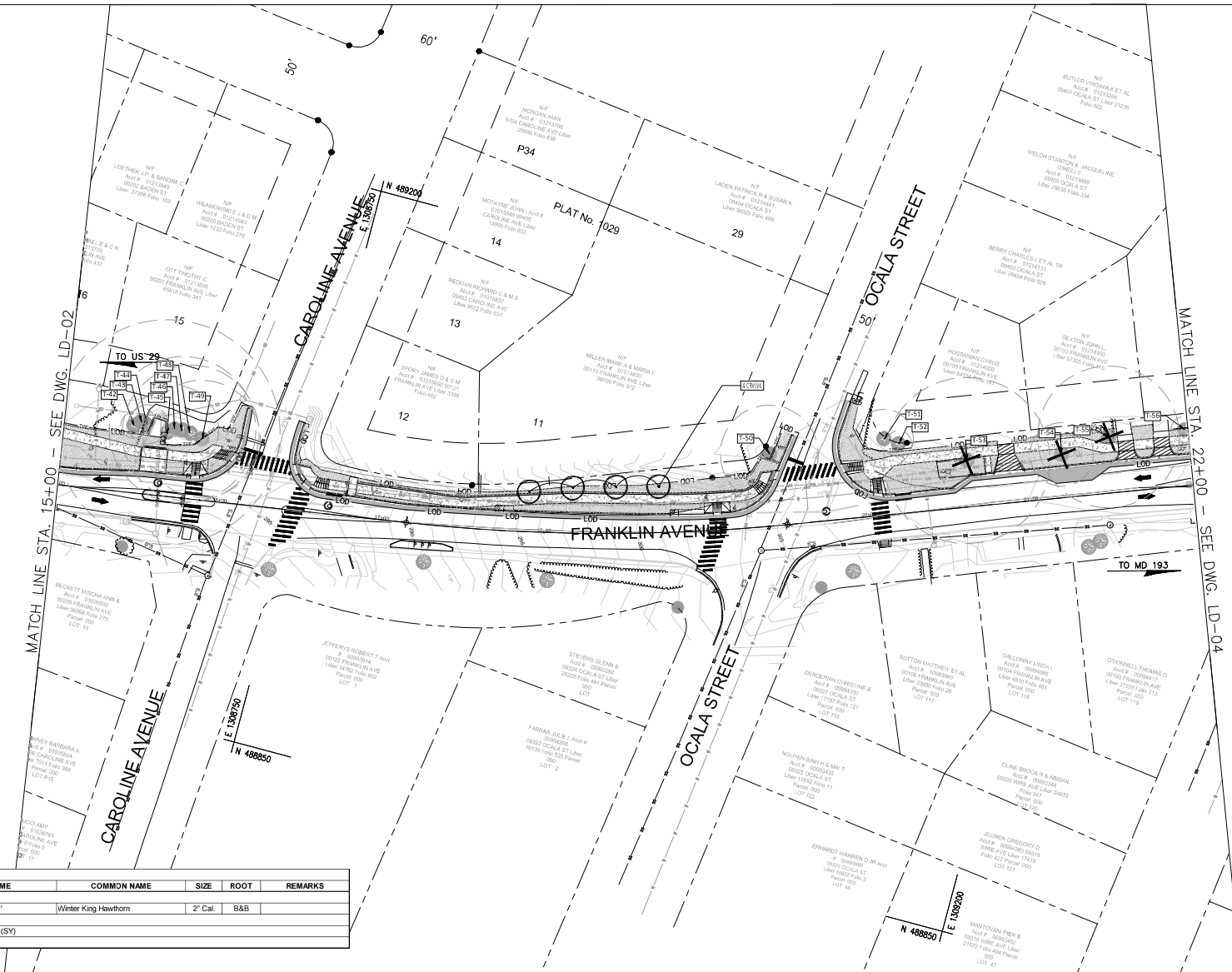
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL:			
Chief, Design Section	Date: _____		
APPROVED			
Chief, Division of Transportation	Date: _____		
Designed by: _____	Drawn by: _____	Checked by: _____	

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**FRANKLIN AVENUE
SIDEWALK
LANDSCAPE PLAN**

SCALE: 1" = 30'

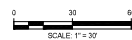
LD - 02



PLANT SCHEDULE (THIS SHEET ONLY)					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
UNDERSTORY TREES					
CRWVK	4	<i>Crataegus viridis</i> "Winter King"	Winter King Hawthorn	2" Cal.	B&B
MISC. ITEMS/SEED MIXES					
SOD	773	Turfgrass Sod Establishment (SY)			
TPF	31	Tree Protection Fence (LF)			

LEGEND:

- UNDERSTORY TREE
- SHRUB
- STORMWATER PLANTING
- LIMIT OF DISTURBANCE
- TREE PROTECTION FENCE
- EXISTING TREE CRITICAL ROOT ZONE
- EXISTING TREE TO BE REMOVED
- TURFGRASS SOD



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Division _____ Date _____

Chief, Division of Transportation _____ Date _____

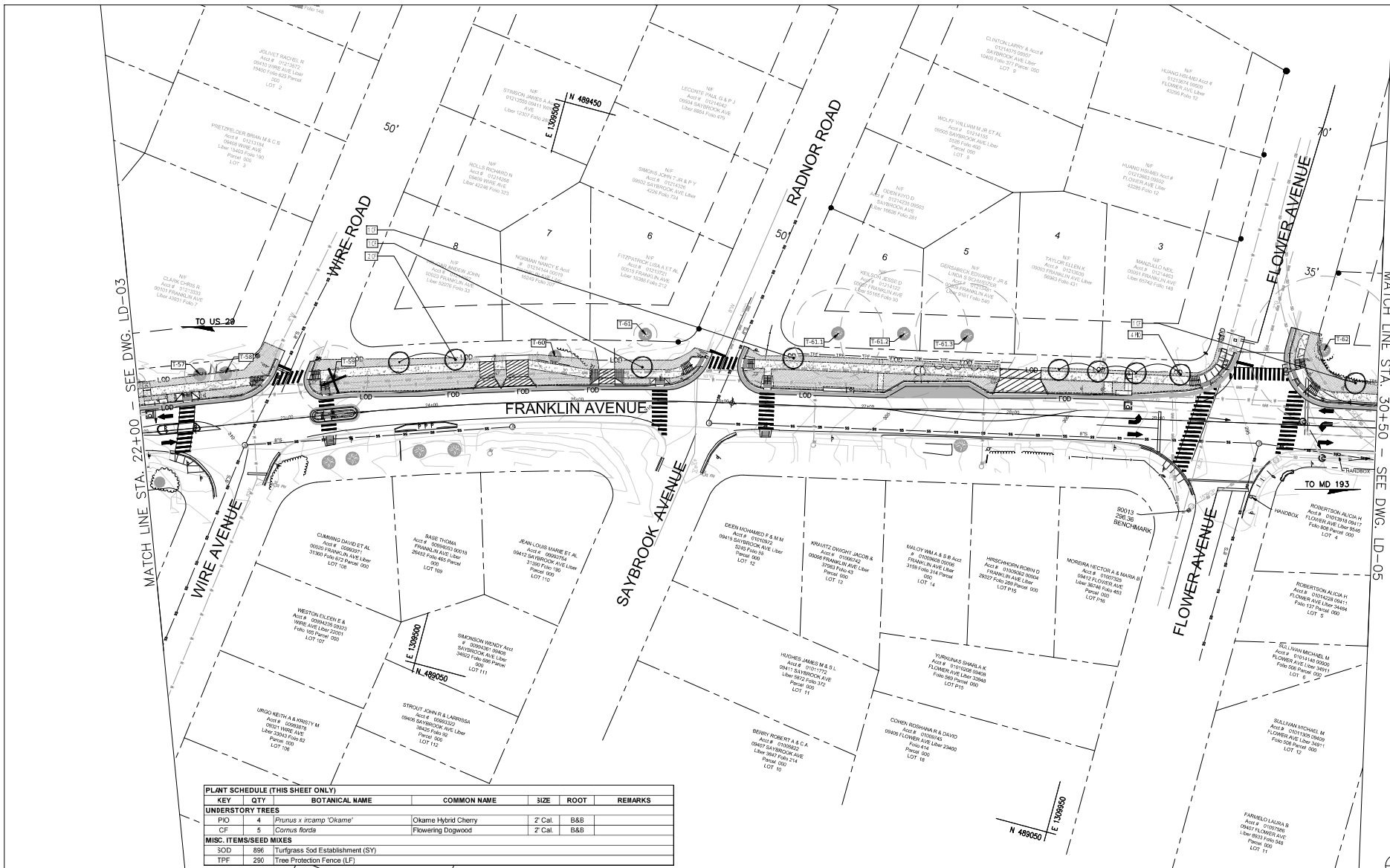
Designed by: _____ Drawn by: _____ Checked by: _____

FRANKLIN AVENUE SIDEWALK LANDSCAPE PLAN

SCALE: 1" = 30'

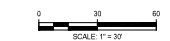
LD - 03

Project No.: 381 79 of 108



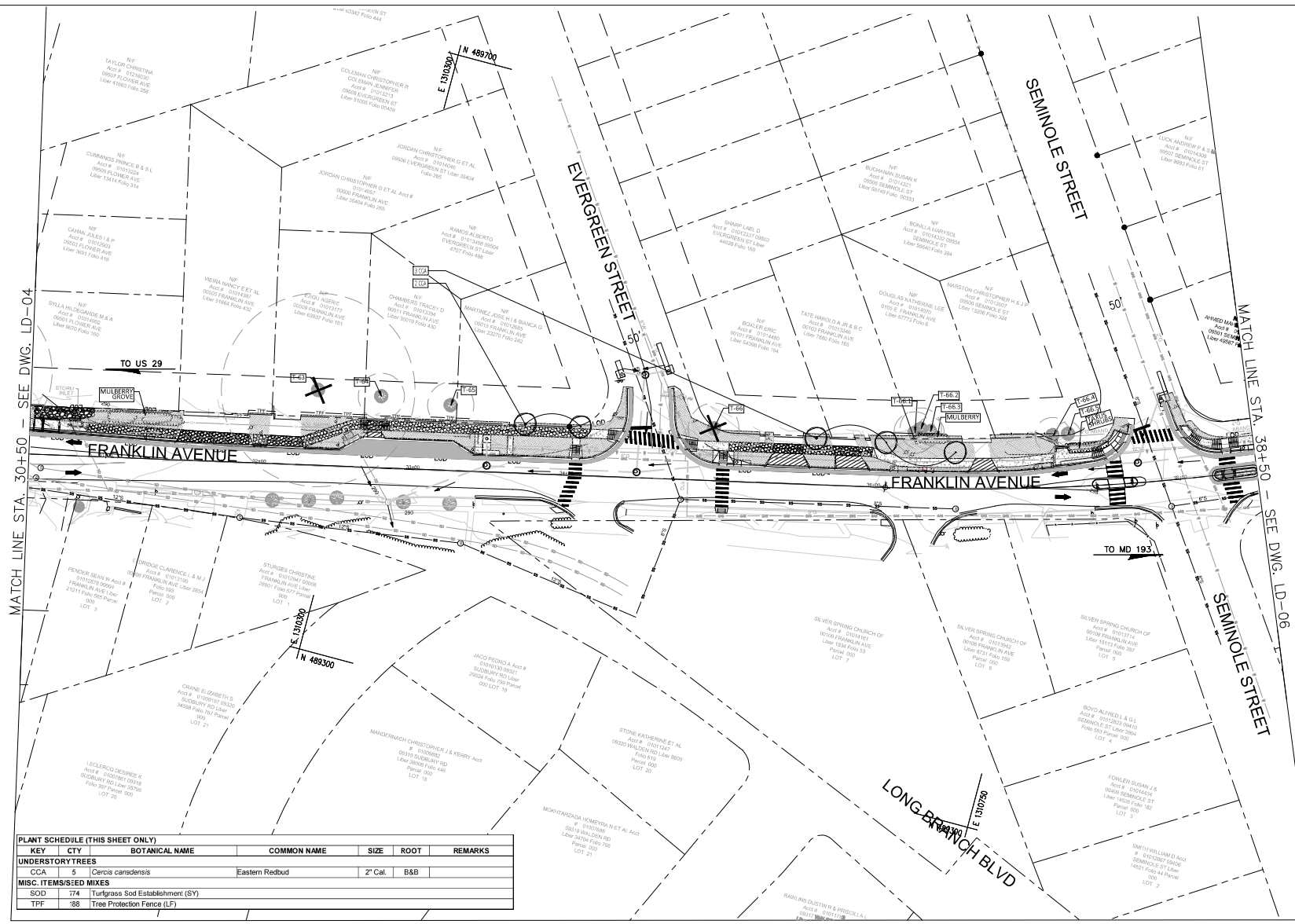
PLANT SCHEDULE (THIS SHEET ONLY)					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
UNDERSTORY TREES					
PIO	4	Prunus x incamp 'Okame'	Okame Hybrid Cherry	2' Cal.	B&B
CF	5	Cornus florida	Flowering Dogwood	2' Cal.	B&B
MISC. ITEMS/SEED MIXES					
SOD	896	Turfgrass Sod Establishment (SY)			
TPF	290	Tree Protection Fence (LF)			

- LEGEND:
- UNDERSTORY TREE
 - SHRUB
 - STORMWATER PLANTING
 - LIMIT OF DISTURBANCE
 - TREE PROTECTION FENCE
 - EXISTING TREE CRITICAL ROOT ZONE
 - EXISTING TREE TO BE REMOVED
 - TURFGRASS SOD



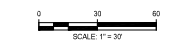
**Engineers, Architects
Development Consultants**
17000 Route 200, Suite 200, Rockville, MD 20850
Phone: 301-251-1000 Fax: 301-251-1174
www.aedc.com

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL Chief Design Division: _____ Date: _____ Chief Division of Transportation: _____ Date: _____ Designed by: _____ Drawn by: _____ Checked by: _____			
SEE TITLE SHEET FOR SIGNATURES			
SCALE: 1" = 30' Project No.: <u>281</u> of <u>109</u>			
FRANKLIN AVENUE SIDEWALK LANDSCAPE PLAN			
LD - 04			



PLANT SCHEDULE (THIS SHEET ONLY)						
KEY	CTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
UNDERSTORY TREES						
CCA	5	Cercis canadensis	Eastern Redbud	2" Cal.	B&B	
MISC. ITEMS/SEED MIXES						
SOD	174	Turfgrass Sod Establishment (SY)				
TPF	188	Tree Protection Fence (LF)				

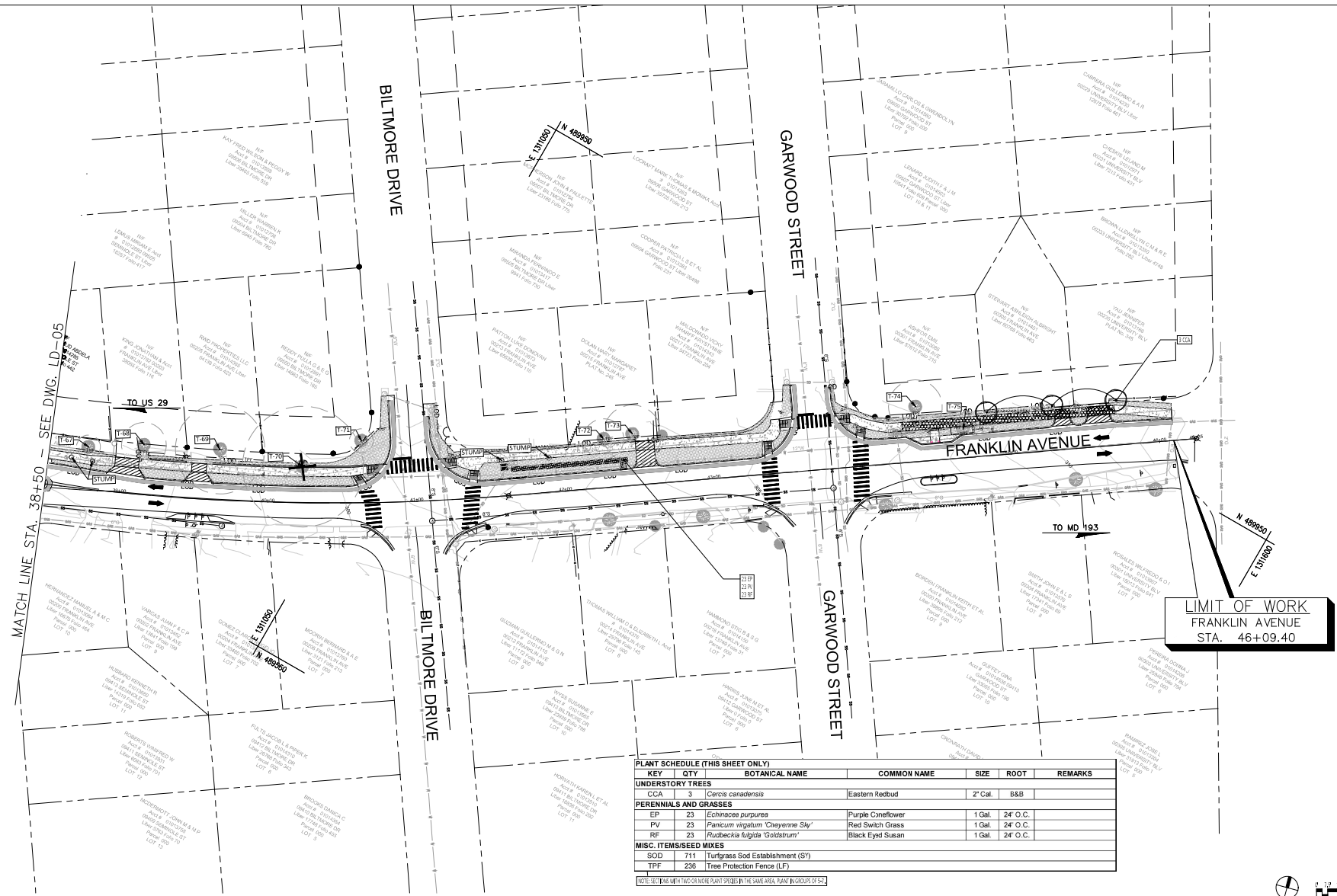
- LEGEND:
- UNDERSTORY TREE
 - SHRUB
 - STORMWATER PLANTING
 - LIMIT OF DISTURBANCE
 - TREE PROTECTION FENCE
 - EXISTING TREE CRITICAL ROOT ZONE
 - EXISTING TREE TO BE REMOVED
 - TURFGRASS SOD



**Engineers, Architects
Development Consultants**

10000 Route 200, Suite 200, Rockville, MD 20850
Phone: 301-260-3000 Fax: 301-260-3174
www.amedia.com

NO. _____ REVISION _____ DATE _____ BY _____				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND FRANKLIN AVENUE SIDEWALK LANDSCAPE PLAN SCALE: 1" = 30' LD - 05	
RECOMMENDED FOR APPROVAL Chief, Design Section _____ Date _____ Chief, Division of Transportation _____ Date _____ Designed by: _____ Drawn by: _____ Checked by: _____				SEE TITLE SHEET FOR SIGNATURES	

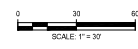


LIMIT OF WORK
FRANKLIN AVENUE
STA. 46+09.40

PLANT SCHEDULE (THIS SHEET ONLY)				
KEY	QTY	BOTANICAL NAME	COMMON NAME	REMARKS
UNDERSTORY TREES				
CCA	3	Cercis canadensis	Eastern Redbud	2" Cal. B&B
PERENNIALS AND GRASSES				
EP	23	Echinacea purpurea	Purple Coneflower	1 Gal. 24" O.C.
PV	23	Panicum virgatum 'Cheyenne Sky'	Red Switch Grass	1 Gal. 24" O.C.
RF	23	Purshia fruticosa 'Goldstrum'	Black Eyed Susan	1 Gal. 24" O.C.
MISC. ITEMS/SEED MIXES				
SOD	711	Turfgrass Sod Establishment (S1)		
TPF	236	Tree Protection Fence (LF)		

NOTE: SECTIONS WITHIN THIS SHEET SHALL BE THE SAME AS PLANT IN GROUP OF 52.

- LEGEND:**
- UNDERSTORY TREE
 - SHRUB
 - STORMWATER PLANTING
 - LIMIT OF DISTURBANCE
 - TREE PROTECTION FENCE
 - EXISTING TREE CRITICAL ROOT ZONE
 - EXISTING TREE TO BE REMOVED
 - TURFGRASS SOD



**Engineers, Architects
Development Consultants**
1000 North Green Road, Rockville, MD 20850
Phone: 301-251-1100 Fax: 301-251-1174
www.ardc.com

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL			
Chief Design Engineer	_____ Date		
Chief Designer	_____ Date		
Chief Designer of Transportation	_____ Date		
Designed by	_____ Date	Drawn by	_____ Date
Checked by	_____ Date	Reviewed by	_____ Date

**FRANKLIN AVENUE
SIDEWALK
LANDSCAPE PLAN**

SCALE: 1" = 30'
Project No. **LD - 06**
Sheet No. **82** of **109**

14. ANY DAMAGE TO THE EXISTING UTILITIES, BUILDINGS, PAVING, CURB, WALLS, AND VEGETATION (NOT SO DESIGNATED FOR REMOVAL ON THESE PLANS) SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

NOTE

- 1.2 PRACTICE MAY BE COMBINED WITH SEDIMENT CONTROL FENCING.
2. LOCATION AND LIMITS OF FENCING AND TREE ROOT PRUNING SHOULD BE COORDINATED IN FIELD WITH ARBORIST.
3. BOUNDARIES OF PROTECTION AREA SHOULD BE STAKED PRIOR TO INSTALLING PROTECTIVE DEVICE.
4. ROOT DAMAGE SHOULD BE AVOIDED.
5. PROTECTION SIGNAGE IS REQUIRED.
6. FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.



1. ROTOTILL SUBGRADE TO A DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL.
2. FINE GRADE AREA PRIOR TO SOD INSTALLATION.
3. PROTECT SODDED AREAS FROM SUBSEQUENT CONSTRUCTION ACTIVITY.

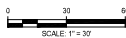


2. PLANTING HOLE SHALL BE DUG BY BACKHOE OR OTHER MACHINE AND FINISHED BY HAND.
3. IF SURROUNDING SOIL IS COMPACTED AS DETERMINED BY M-NCPPC CONSTRUCTION MANAGER, AN AREA UP TO 5 TIMES THE DIAMETER OF THE ROOT MASS SHALL BE EXCAVATED OR ROTOTILLED TO A 1' DEPTH AND SOIL SHALL BE AMENDED.
4. PRUNE ONLY DEAD, DECAYING, BROKEN, CROSSING OR INWARD GROWING BRANCHES. NEVER DAMAGE OR CUT JAWER.

SCALE: 1" = 1'-0"

d-TPF.dwg
SCALE: 1"=1'-0"

d-tree_planting.dwg
SCALE: NTS



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				FRANKLIN AVENUE SIDEWALK LANDSCAPE NOTES AND DETAILS
RECOMMENDED FOR APPROVAL _____				
Chief Design Section _____ Date _____				
APPROVED _____				
Chief, Division of Transportation _____ Date _____				
Designed by: _____ Drawn by: _____ Checked by: _____				SCALE: _____
NO.	REVISION	DATE	BY	Project No.: _____

LD - 07

SYMBOL/NO.	BOTANICAL NAME	COMMON NAME	SIZE (DBH)	CCA CONDITION	PROPOSED CONDITION	PROPOSED RECOMMENDATION	COMMENTS	Within ROW?	ADDRESS
1	<i>Quercus rubra</i>	Red Oak	18	Fair	Protect in Place	Tree Protection - fencing	In Fence	No	BHANDARI CHETNATH, 9401 Coleville Rd
2		Doac		Ceas				No	BHANDARI CHETNATH, 9401 Coleville Rd
3	<i>Quercus rubra</i>	Red Oak	6	Fair	Protect in Place	Tree Protection - fencing		No	BHANDARI CHETNATH, 9401 Coleville Rd
4	<i>Morus alba</i>	White Mulberry	3	Fair	Protect in Place	Tree Protection - fencing	Poor Form	Yes	BHANDARI CHETNATH, 9401 Coleville Rd
5	<i>Prunus avium</i>	Sweet Cherry	2	Fair	Protect in Place	Tree Protection - fencing		No	BHANDARI CHETNATH, 9401 Coleville Rd
6	<i>Quercus rubra</i>	Red Oak	9	Fair	Protect in Place	Tree Protection - fencing		No	BHANDARI CHETNATH, 9401 Coleville Rd
7		Doac		Ceas				No	BHANDARI CHETNATH, 9401 Coleville Rd
8	<i>Quercus rubra</i>	Red Oak	22	Fair	Protect in Place	Tree Protection - fencing	Poor form, 3' Multi Stem	No	BHANDARI CHETNATH, 9401 Coleville Rd
9	<i>Ulmus americana</i>	American Elm	16	Fair	Protect in Place	Tree Protection - fencing	8 Multi Stem	No	DIAMENNA, JETCABA VICTORIA, 3000 WORTH AVE
10	<i>Prunus serotina</i>	Japanese Cherry	13	Fair	Protect in Place	Tree Protection - fencing	Multi Stem	No	DIAMENNA, JETCABA VICTORIA, 3000 WORTH AVE
11	<i>Cercis canadensis</i>	Redbud	9	Good	Remove		5 Stem Multi Stem	Yes	SPOKY SHIRLEY MET AL, 123 Franklin Ave
12	<i>Cercis canadensis</i>	Redbud	9	Fair	Remove		Poor Form	Yes	SPOKY SHIRLEY MET AL, 123 Franklin Ave
13	<i>Ilex sp.</i>	Holly	9	Good	Protect in Place	Tree Protection - fencing		No	DEWISTON ALAN R ET AL, 317 Franklin Ave
14	<i>Lagerstroemia sp.</i>	Capa Myrtle	4.5'	Good	Protect in Place	Tree Protection - fencing	5 Stem Multi Stem	Yes	DEWISTON ALAN R ET AL, 317 Franklin Ave
15	<i>Cornus florida</i>	American Dogwood	6	Good	Protect in Place	Tree Protection - fencing	3 Stem Multistem	No	DEWISTON ALAN R ET AL, 317 Franklin Ave
16	<i>Lagerstroemia sp.</i>	Capa Myrtle	2.4'	Fair	Protect in Place	Tree Protection - fencing	13 Stem Multistem	No	DEWISTON ALAN R ET AL, 317 Franklin Ave
17	<i>Acer glabrum</i>	Amur Maple	9	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	SOLANO SILVANA T ET AL, 315 Franklin Ave
18	<i>Amenchier sp.</i>	Serviceberry	4	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing	Multi Stem	Yes	SOLANO SILVANA T ET AL, 315 Franklin Ave
19	<i>Viburnum sp.</i>	Viburnum	4	Fair	Protect in Place	Tree Protection - fencing		No	SOLANO SILVANA T ET AL, 315 Franklin Ave
20	<i>Cercis canadensis</i>	Redbud	4	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	SOLANO SILVANA T ET AL, 315 Franklin Ave
21	<i>Cornus kousa</i>	Kousa Dogwood	3	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing	Multi Stem	Yes	WILBERT M CECILIA, 315 Franklin Ave
22	<i>Acer glabrum</i>	Amur Maple	7	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	WILBERT M CECILIA, 315 Franklin Ave
23	<i>Prunus angustifolia</i>	Sard Plum	1.2'	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing	5 Stem Multi Stem	Yes	WILBERT M CECILIA, 315 Franklin Ave
24	<i>Prunus sp.</i>	Cherry	15	Fair	Protect in Place	Tree Protection - fencing		No	STERNBURG KIRA L, 327 Franklin Ave
25	<i>Cornus kousa</i>	Kousa Dogwood	4	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	STERNBURG KIRA L, 327 Franklin Ave
26	<i>Prunus angustifolia</i>	Sard Plum	1.2'	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing	5 Stem Multi Stem	Yes	STERNBURG KIRA L, 327 Franklin Ave
27	<i>Ulmus americana</i>	American Elm	5.6'	Fair	Protect in Place	Tree Protection - fencing	3 Stem Multistem	No	DAWSON ERIN W, 306 Loughton Ave
28	<i>Prunus serotina</i>	Black Cherry	4.4'	Fair	Protect in Place	Tree Protection - fencing	2 Stem	No	DAWSON ERIN W, 306 Loughton Ave
29	<i>Ulmoidendron tobiifera</i>	Tall Poplar	48	Fair	Protect in Place	Tree Protection - fencing	Crown dieback	No	DAWSON ERIN W, 306 Loughton Ave
30		Doac		Ceas				No	DAWSON ERIN W, 306 Loughton Ave
31	<i>Cornus florida</i>	American Dogwood	4	Fair	Protect in Place	Tree Protection - fencing		Yes	DAWSON ERIN W, 306 Loughton Ave
32	<i>Ulmus americana</i>	American Elm	11	Fair	Protect in Place	Tree Protection - fencing	Vines	Yes	RUCKELT JARCELA E CAROLYN, 301 Loughton Ave
33	<i>Ilex opaca</i>	Dogwood	14	Fair	Protect in Place	Tree Protection - fencing		Yes	RUCKELT JARCELA E CAROLYN, 301 Loughton Ave
34	<i>Cornus sp.</i>	Dogwood	7	Good	Protect in Place	Tree Protection - fencing		No	WILLIAMS DEBORAH S, 215 Franklin Ave
35	<i>Quercus acutissima</i>	Sawtooth Oak	15	Fair	Remove			Yes	DEVALIA SHEILAR, 213 Franklin Ave
36	<i>Quercus acutissima</i>	Sawtooth Oak	16	Fair	Remove			Yes	DEVALIA SHEILAR, 213 Franklin Ave
37	<i>Ilex opaca</i>	Holly	15	Fair	Protect in Place	Tree Protection - fencing	2 Stem	No	DEVALIA SHEILAR, 213 Franklin Ave
38	<i>Ilex opaca</i>	Holly	11' x 2	Fair	Protect in Place	Tree Protection - fencing	2 Stem	Yes	DEVALIA SHEILAR, 213 Franklin Ave
39	<i>Lagerstroemia sp.</i>	Capa Myrtle	2.4'	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing	6 Stem	Yes	REYES JOSEPH ET AL, 209 Franklin Ave
40	<i>Acer rubrum</i>	Red Maple	16	Fair	Remove			Yes	LEWIS H FREDERICK & M A, 205 Franklin Ave
41	<i>Acer rubrum</i>	Red Maple	18	Fair	Remove			Yes	LEWIS H FREDERICK & M A, 205 Franklin Ave
42		Evergreen shrub	4	Fair	Protect in Place	Tree Protection - fencing		Yes	GAUGHAN JOHN N & M P, 201 Franklin Ave
43	<i>Juniperus virginiana</i>	Cedar	4	Fair	Protect in Place	Tree Protection - fencing	Vines	Yes	GAUGHAN JOHN N & M P, 201 Franklin Ave
44	<i>Juniperus virginiana</i>	Cedar	8	Fair	Protect in Place	Tree Protection - fencing		Yes	GAUGHAN JOHN N & M P, 201 Franklin Ave
45	<i>Acer saccharinum</i>	Silver Maple	46	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	GAUGHAN JOHN N & M P, 201 Franklin Ave
46	<i>Acer saccharinum</i>	Silver Maple	18	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	GAUGHAN JOHN N & M P, 201 Franklin Ave
47	<i>Acer saccharinum</i>	Silver Maple	30	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	GAUGHAN JOHN N & M P, 201 Franklin Ave
48	<i>Acer saccharinum</i>	Silver Maple	28	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	GAUGHAN JOHN N & M P, 201 Franklin Ave
49	<i>Acer saccharinum</i>	Silver Maple	24	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	GAUGHAN JOHN N & M P, 201 Franklin Ave
50	<i>Magnolia grandiflora</i>	Sequoia Magnolia	20	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	LADEN PATRICK S & SUSAN K, 115 Franklin Ave
51	<i>Cornus sp.</i>	Dogwood	12	Good	Protect in Place	Tree Protection - fencing		No	BECK FREDERICK ET AL, 105 Franklin Ave
52	<i>Morus sp.</i>	Apple	1	Good	Protect in Place	Tree Protection - fencing	Newly Planted	No	BECK FREDERICK ET AL, 105 Franklin Ave
53	<i>Quercus rubra</i>	Red Oak	34	Fair	Remove		Poor form, Powerlines	Yes	BECK FREDERICK ET AL, 105 Franklin Ave
54	<i>Celtis occidentalis</i>	Hedgeberry	13	Fair	Remove		Powerlines, Poor form	Yes	WERNER ROBERT S & ELU ET AL, 163 Franklin Ave
55	<i>Morus alba</i>	Mulberry	29/22	Fair	Remove			Yes	WERNER ROBERT S & ELU ET AL, 163 Franklin Ave
56	<i>Lagerstroemia sp.</i>	Capa Myrtle	2.4'	Fair	Protect in Place	Tree Protection - fencing	5 Stem Multi Stem	Yes	WERNER ROBERT S & ELU ET AL, 163 Franklin Ave
57	<i>Lagerstroemia sp.</i>	Capa Myrtle	7	Fair	Protect in Place	Tree Protection - fencing	4 Stem	Yes	CLARK CHRISTOPHER D, 160 Franklin Ave
58	<i>Lagerstroemia sp.</i>	Capa Myrtle	2.4'	Fair	Protect in Place	Tree Protection - fencing	7 Stem	Yes	CLARK CHRISTOPHER D, 160 Franklin Ave
59	<i>Juniperus virginiana</i>	Eastern Red Cedar	16	Fair	Remove			Yes	ROD N MICHAEL F & C A, 023 Franklin Ave
60	<i>Cornus sp.</i>	Dogwood	8	Good	Protect in Place	Tree Protection - fencing		Yes	NCIRMAN NANCY F, 18 Franklin Ave
61	<i>Prunus sp.</i>	Cherry	1.4'	Fair	Protect in Place	Tree Protection - fencing	Newly Planted where old tree was located	No	REZATYRICK LISA ET AL, 15 Franklin Ave
61.1	<i>Acer rubrum</i>	Red Maple	21"	Fair	Protect in Place	Tree Protection - fencing		Yes	SEANANNE RICHARD W, 8 Franklin Ave
61.2	<i>Acer saccharinum</i>	Silver Maple	23"	Fair	Protect in Place	Tree Protection - fencing		Yes	CHAMBERS TRACEY D, 11 Franklin Ave
61.3	<i>Acer rubrum</i>	Red Maple	24"	Fair	Protect in Place	Tree Protection - fencing		Yes	CHAMBERS TRACEY D, 11 Franklin Ave
62	<i>Quercus falcata</i>	Sect from Red Oak	34	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		No	SHILA HILLEGASION M & A, 9501 Flower Ave
63	<i>Potamogeton occidentalis</i>	Spangore	42	Fair	Remove			No	OLSH AGNELE, 10 Franklin Ave
64	<i>Picea pungens</i>	Blue Spruce	10	Fair	Protect in Place	Tree Protection - fencing	Vines	No	CHAMBERS TRACEY D, 11 Franklin Ave
65	<i>Picea pungens</i>	Blue Spruce	10	Fair	Protect in Place	Tree Protection - fencing		No	CHAMBERS TRACEY D, 11 Franklin Ave
66	<i>Pinus caryinosa</i>	Black Red Pine	11	Fair	Remove			Yes	MARTIN T GINO J, 161 Franklin Ave
66.1	<i>Morus alba</i>	Mulberry	6	Fair	Protect in Place	Tree Protection - fencing		Yes	105 Franklin Ave
66.2	<i>Cercis canadensis</i>	Redbud	9	Fair	Protect in Place	Tree Protection - fencing		Yes	105 Franklin Ave
66.3	<i>Morus alba</i>	Mulberry	6	Fair	Protect in Place	Tree Protection - fencing		Yes	105 Franklin Ave
66.4	<i>Morus alba</i>	Mulberry	8	Fair	Protect in Place	Tree Protection - fencing		Yes	CHRISTOPHER HAWKSTON, 9501 Seminole St
66.5	<i>Cercis canadensis</i>	Redbud	3	Fair	Protect in Place	Tree Protection - fencing		Yes	CHRISTOPHER HAWKSTON, 9501 Seminole St
67	<i>Morus alba</i>	Mulberry	2	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing	Stump regrowth	Yes	GILLS STEPHEN S & DANE M, 9501 Seminole St
68	<i>Cornus sp.</i>	Dogwood	10	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	KING JONATHAN, 163 Franklin Ave
69	<i>Prunus serotina</i>	Japanese Cherry	20	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	REYNOLDS ALLISON E ET AL, 201 Franklin Ave
70	<i>Quercus falcata</i>	Sect from Red Oak	27	Fair	Remove		Heavy xy	Yes	REDDY PALLA S & E G, 9501 Baltimore Dr
71	<i>Acer rubrum</i>	Red Maple	2	Fair	Protect in Place	Tree Protection - fencing		Yes	REDDY PALLA S & E G, 9501 Baltimore Dr
72	<i>Cornus kousa</i>	Kousa Dogwood	9	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		No	OCIAI MARY WINGARET, 215 Franklin Ave
73	<i>Juniperus virginiana</i>	Red Cedar	13	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing		No	OCIAI MARY WINGARET, 215 Franklin Ave
74	<i>Pinus strobus</i>	White Pine	12	Fair	Protect in Place	Air Excavation of roots, Tree Protection Fencing		No	ANDREWS ME JESSA D ET AL, 301 Franklin Ave
75	<i>Cercis canadensis</i>	Redbud	4	Good	Protect in Place	Air Excavation of roots, Tree Protection Fencing		Yes	ANDREWS ME JESSA D ET AL, 301 Franklin Ave

SHEET NO.	TOTAL SHEETS
84	109

EXISTING TREE PROTECTION NOTES:

1. ALL EXISTING STUMPS TO BE GRIND TO 8" BELOW GRADE, AND DEPOSED OFF-SITE.
2. TREE PROTECTION FENCE SHALL BE PLACED AT THE LIMIT OF DISTURBANCE AND UTILITY ROOT CONCERNATIONS.
3. TREE ROOT PRUNING SHALL BE PERFORMED AS NEEDED, DETERMINED BY LICENSED TREE EXPERT ON SITE.
4. AIR EXCAVATION OF ROOTS SHALL BE PROPOSED WITHIN THE UTILITY ROOT ZONES OF EXISTING TREES TO REMAIN AS NEEDED.
5. DETERMINED BY LICENSED TREE EXPERT ON SITE.

ROOT BARRIER GEOTECHNICAL SHALL BE PROVIDED AT 20" HT, BY 30" LENGTH, CENTERED ON ROOT-PRUNED EXISTING TREES AND PROPOSED TREES.

EXISTING TREE DISTANCE (1) MITIGATION CALCULATION:

1. EXISTING TREES TO BE REMOVED: 13 TREES
2. PROPOSED STREET TREES TO BE PLANTED @ 1 TREES: 1 TREE REPLACEMENT: 26 TREES OF 0.80 P.H.U.

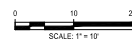
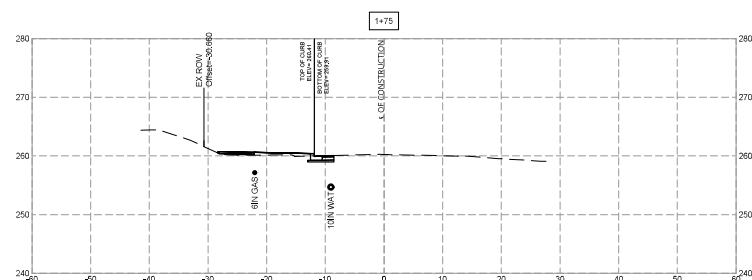
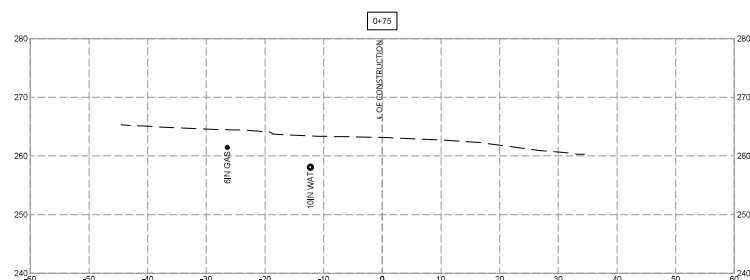
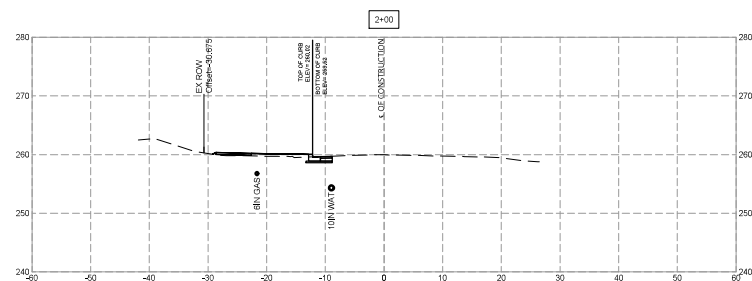
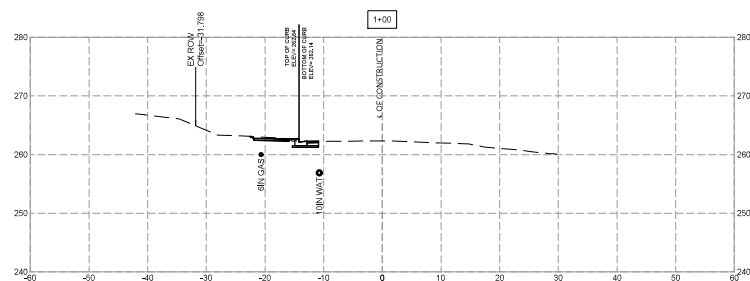
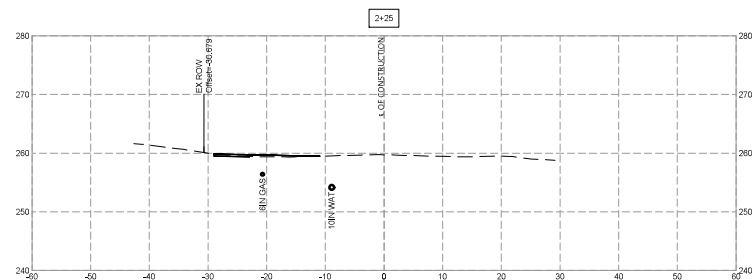
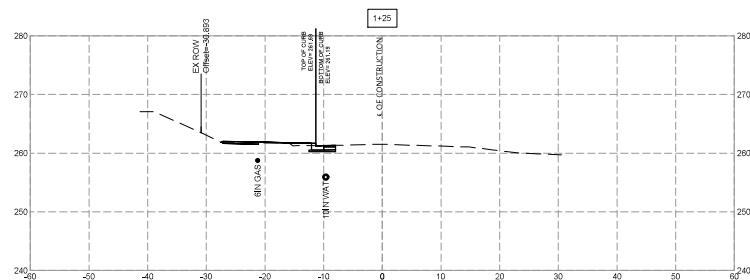
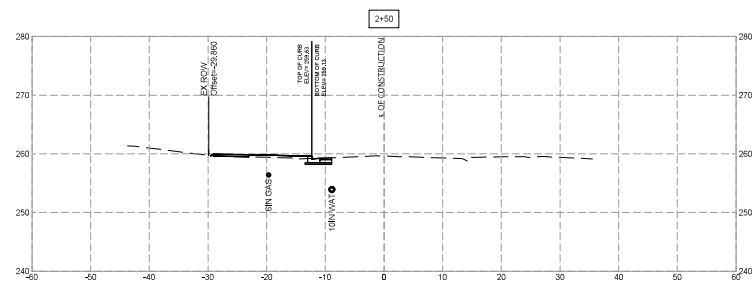
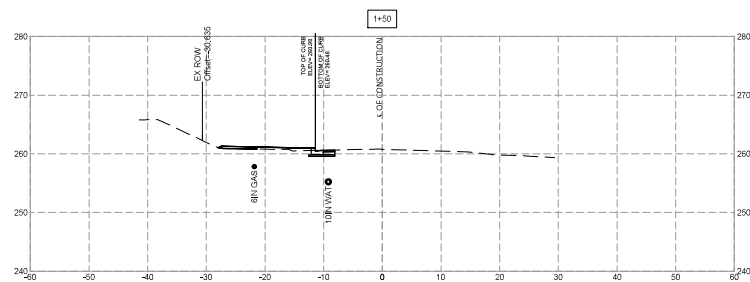
Address	Trees removed	Trees to be provided
SHIRLEY M SPORY, 323 Franklin Ave	2	3
EDITH W DAWSON, 305 Loughton Ave	0	2
DEVALIA SHEILAR, 213 Franklin Ave	2	0
LEWIS H FREDERICK & N A, 205 Franklin Ave	2	0
LADEN PATRICK S & SUSAN K, 115 Franklin Ave	0	4
FREDERIC BECK, 105 Franklin Ave	1	0
WERNER ROBERT S & ELU ET AL, 163 Franklin Ave	2	0
RODIN MICHAEL R & C A, 023 Franklin Ave	0	2
HUGESGARDE SYLVA, 9501 Flower Ave	0	1
F PATRICK USA ET AL, 15 Franklin Ave	1	1
EDUJ AGRIER, 9 Franklin Ave	0	1
RENE G PELLETIER, 1 Franklin Ave	0	0
CHAMME DELUCA, 3 Franklin Ave	0	2
GLADY SPARKS, 1 Franklin Ave	0	2
JOSE MARTINEZ, 15 Franklin Ave	0	2
MARTIN REGINO J, 101 Franklin Ave	1	1
HAROLD A TATE, 103 Franklin Ave	0	2
REDDY PALLA S & E G, 9501 Baltimore Dr	1	0
JONNETTE HARTNETT, 305 Franklin Ave	0	2
JUNIFER YAL, 235 University Blvd	0	1
TOTALS	13	26

0 30 60
SCALE: 1" = 30'



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND				FRANKLIN AVENUE SIDEWALK EXISTING TREE LIST AND MITIGATION CALCULATION	
RECOMMENDED FOR APPROVAL				SEE TITLE SHEET FOR SIGNATURES	
Chief Design/Detailer: _____				Date: _____	
APPROVED				Date: _____	
Chief Division of Transportation: _____				SCALE: 1" = _____	
Designed by: _____				Project No.: _____	
Drawn by: _____				Sheet _____ of _____	
Checked by: _____				LD - 08	
NO.	REVISION	DATE	BY		

SHEET NO.	TOTAL SHEETS
85	109



**Engineers, Architects
Development Consultants**
19525 Shady Grove Road, Rockville, MD, 208
Phone: 301-590-3528 Fax: 301-545-7174
www.vchd.com

NO.	附錄標明	DATE	B

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

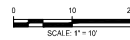
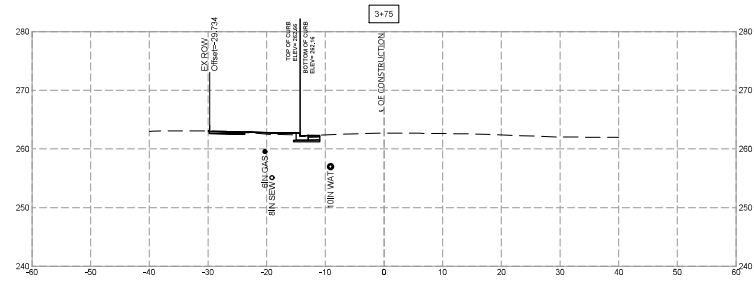
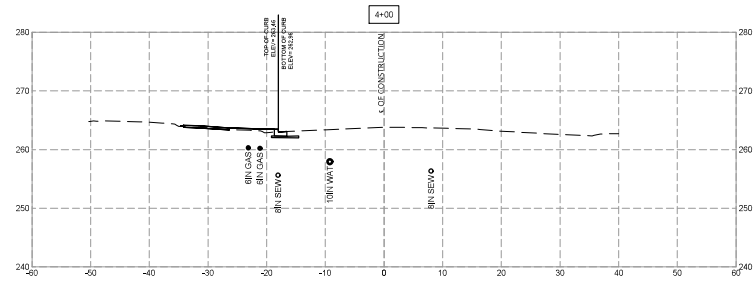
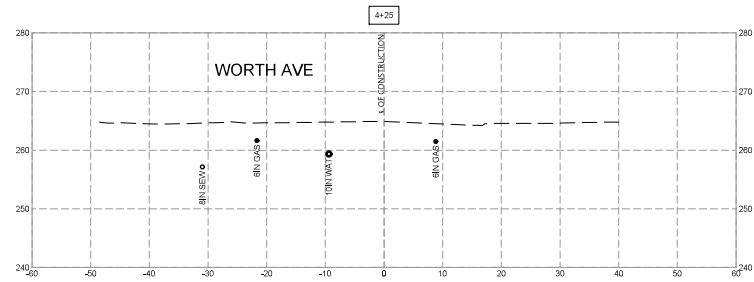
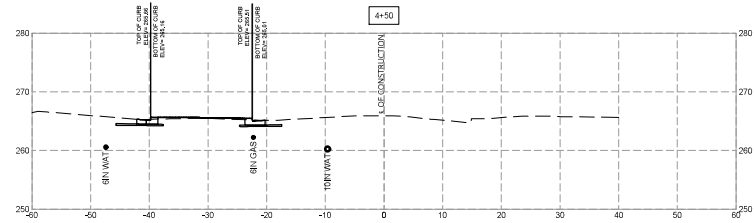
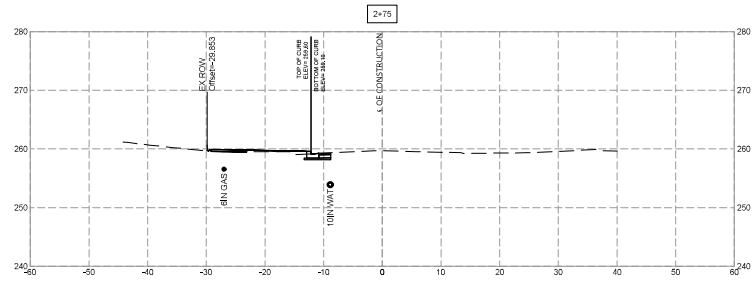
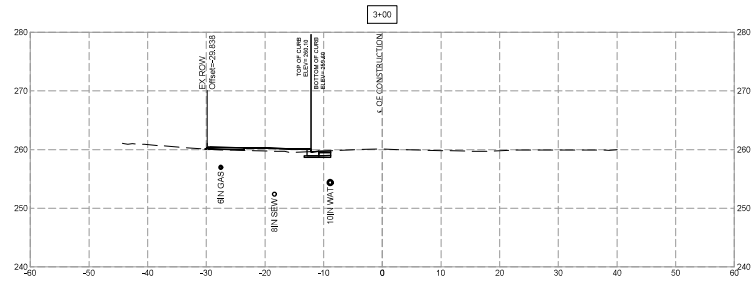
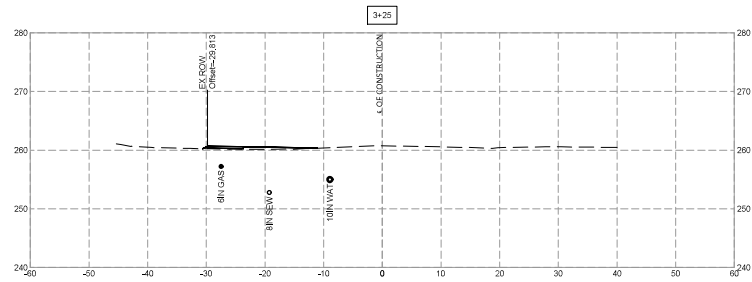
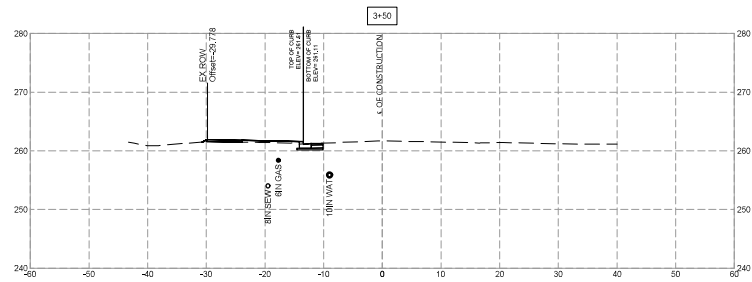
Date

Chief, Division of Transportation Engineering _____ Date _____

Designed by: _____ Drawn by: _____ Checked by: _____

FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS

SCALE : XS - 01
Project No. : TSD 85 of 102



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1819 South Grand Avenue, Rockville, MD, 20850
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Transportation

Designed by: _____

Drawn by: _____

Checked by: _____

Date: _____

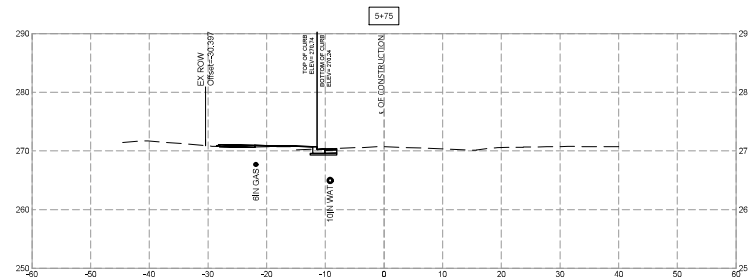
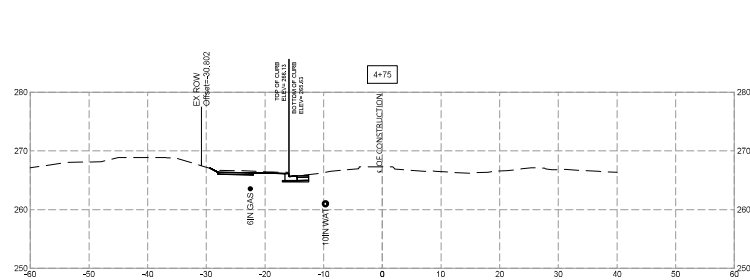
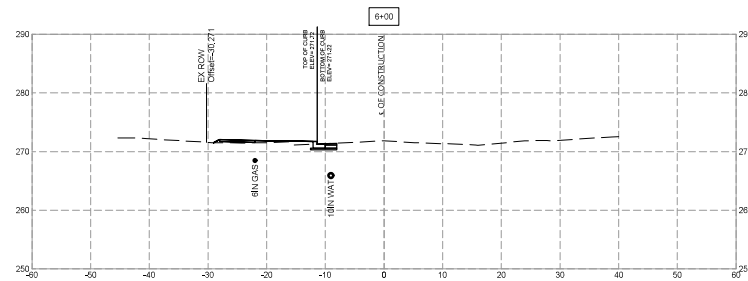
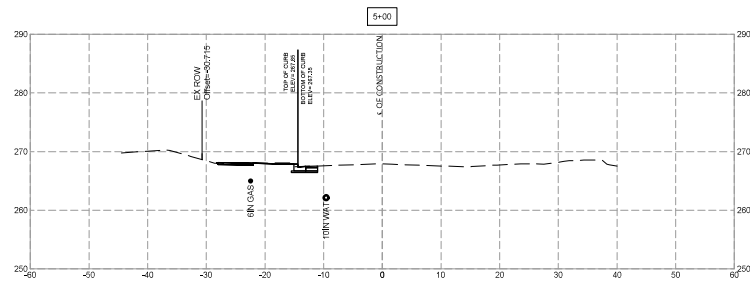
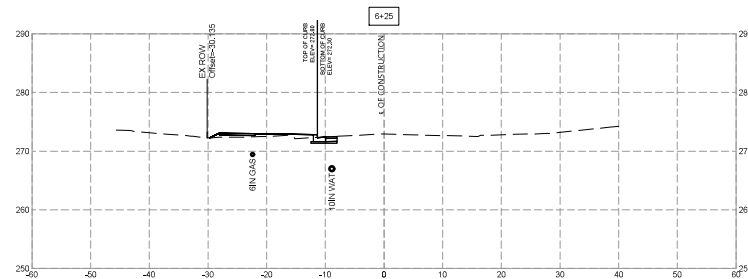
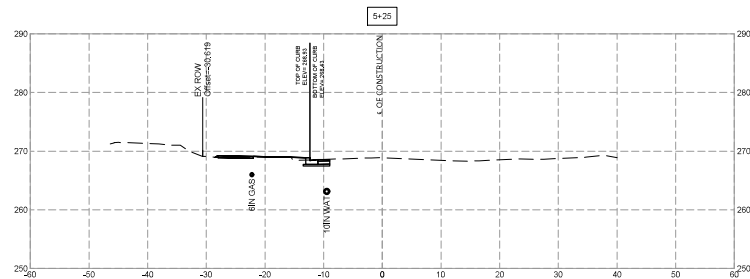
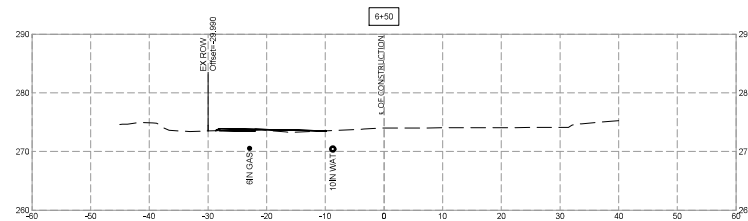
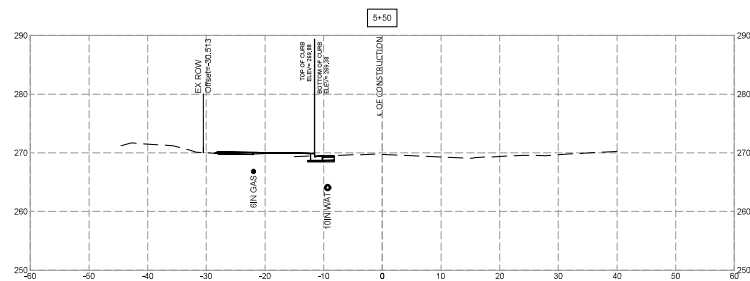
Date: _____

**FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS**

SCALE: _____

XS - 02

Project No.: 286 of 109



SHELADY
Engineers, Architects
Development Consultants
1819 South Grand Avenue, Rockville, MD, 20850
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www.sheledy.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED _____

Chief, Division of Transportation _____ Date _____

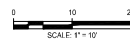
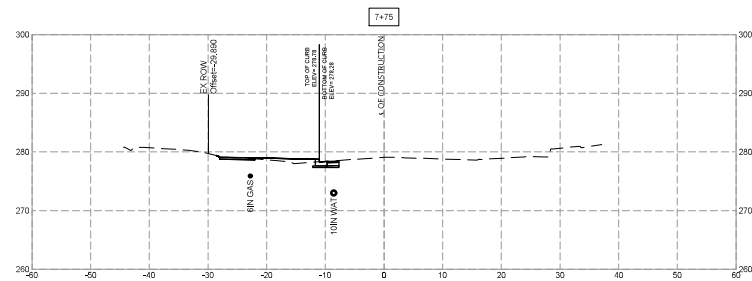
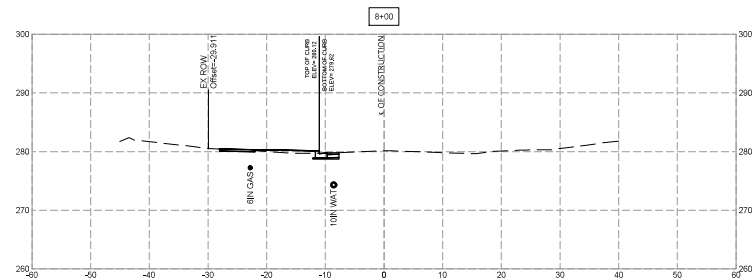
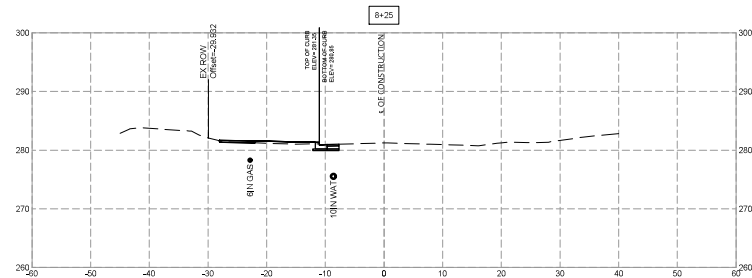
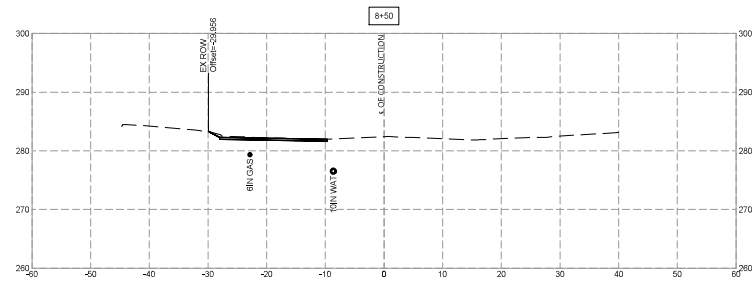
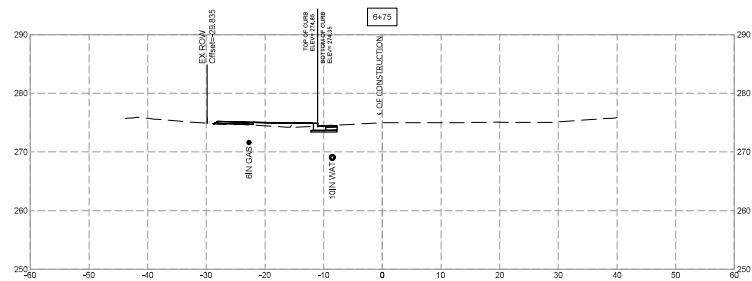
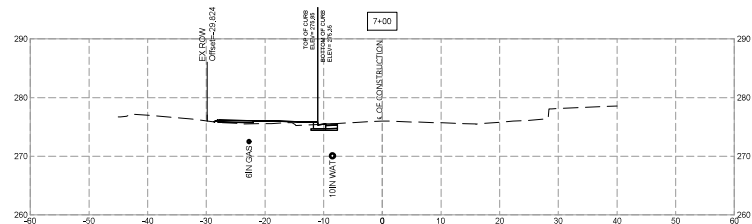
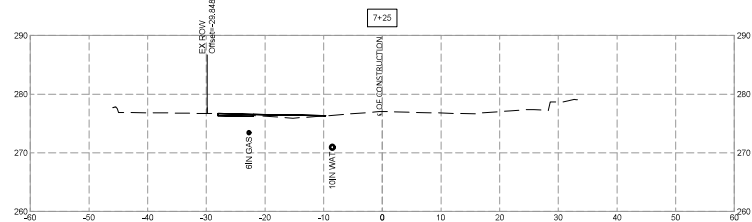
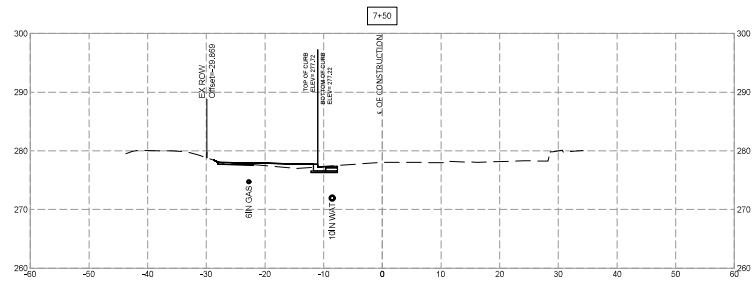
Designed by: _____ Drawn by: _____ Checked by: _____

**FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS**

SCALE: _____

XS - 03

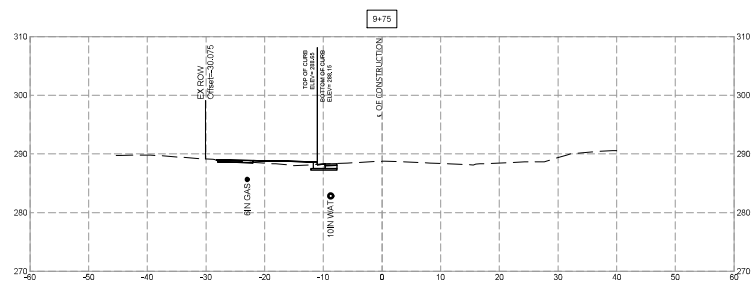
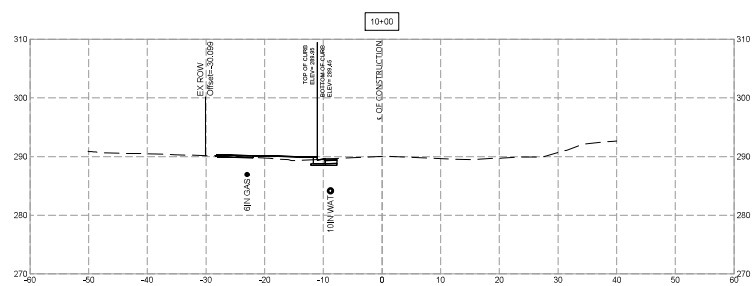
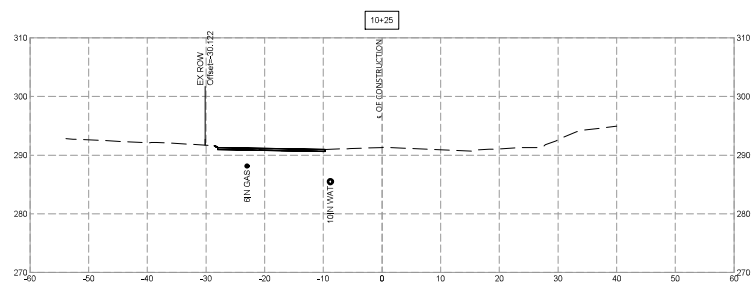
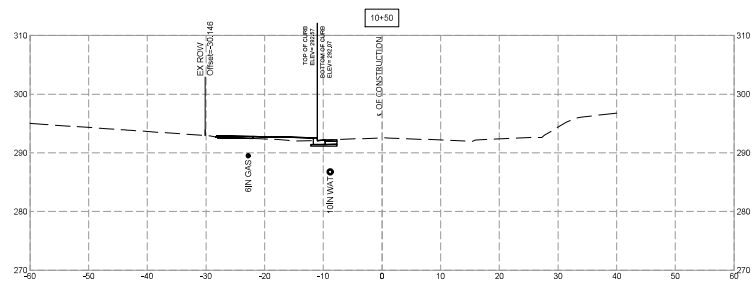
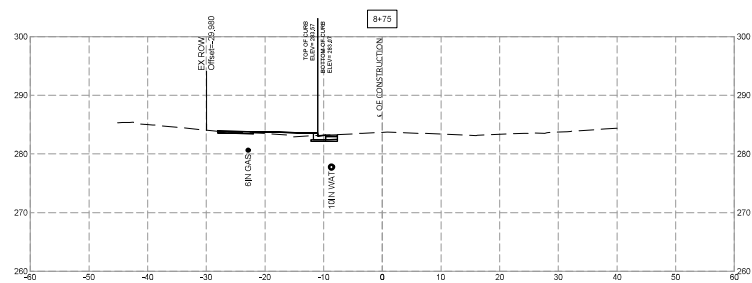
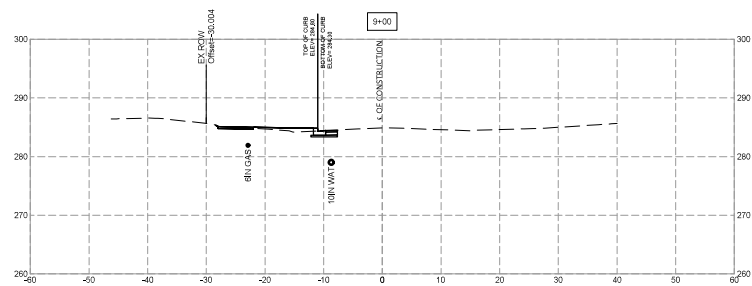
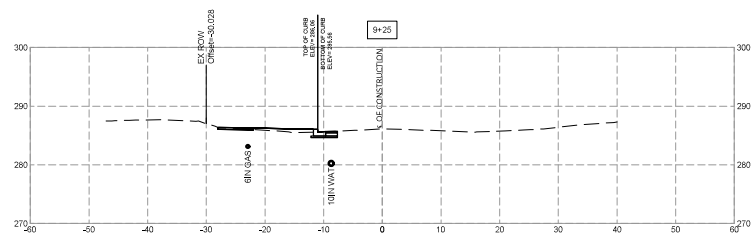
Project No.: 1386 87 of 109



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

FRANKLIN AVENUE SIDEWALK CROSS SECTIONS	
SCALE: _____	XS - 04
Project No.: _____	of _____

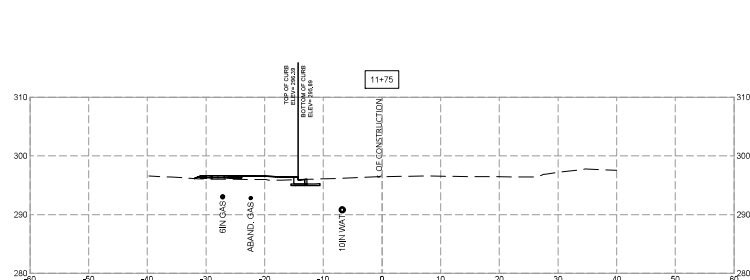
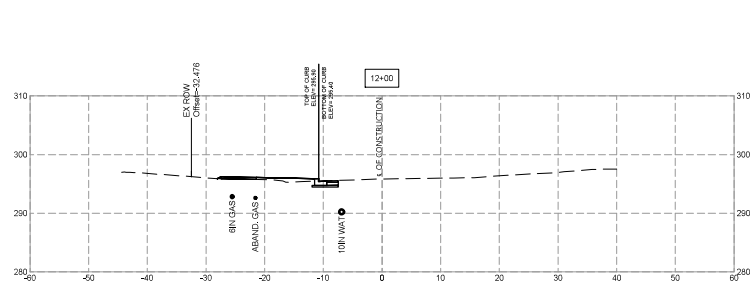
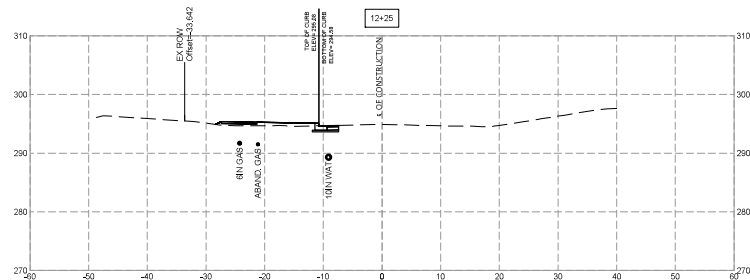
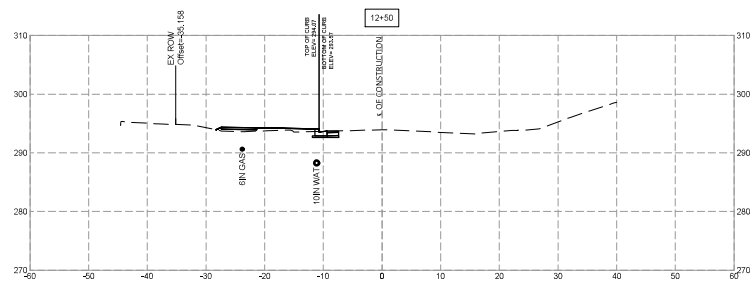
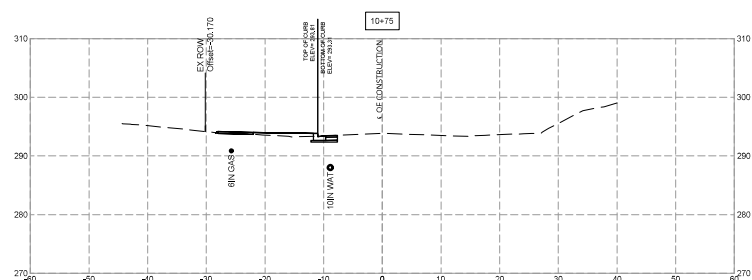
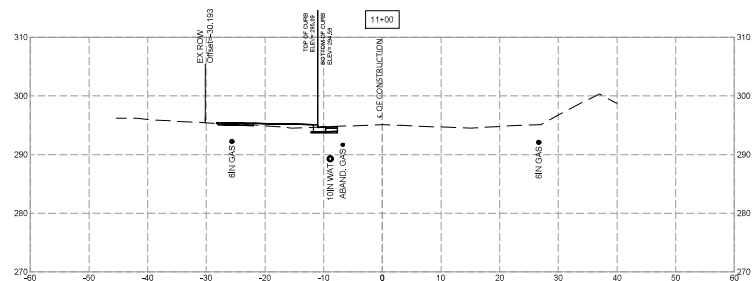
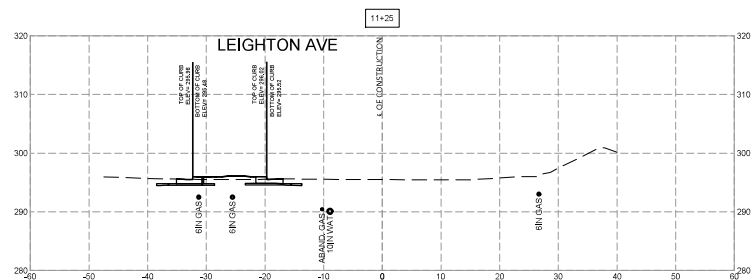


No.	問題番号	DATE	B

MONTGOMERY COUNTY		
DEPARTMENT OF TRANSPORTATION		
ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
Chief, Design Section	_____	Date _____
APPROVED	_____	
Chief, Division of Transportation	_____	Date _____
Designed by: _____	Drawn by: _____	Checked by: _____

SCALE : XS - 05
Project No. : TSD 89 of 102

A map of Leighton Ave showing bus stops and landmarks. The map is oriented with Leighton Ave running horizontally. On the left side, there is a bus stop labeled 'LEIGHTON AVE' with a bus icon. Further right, there is a bus stop labeled 'LEIGHTON AVE' with a bus icon. On the right side, there is a bus stop labeled 'LEIGHTON AVE' with a bus icon. The map also shows a street labeled 'S. DE CONSTRUCTION' running vertically. Landmarks include 'SIN GAS', 'ABAND. GAS', '10TH WAL', and '4TH GAS'. The map includes a scale bar from 0 to 60 and a north arrow.



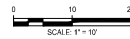
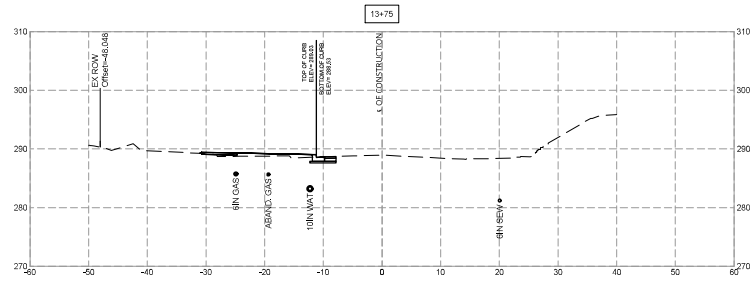
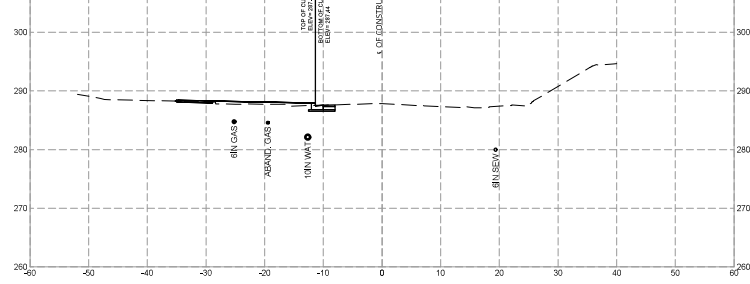
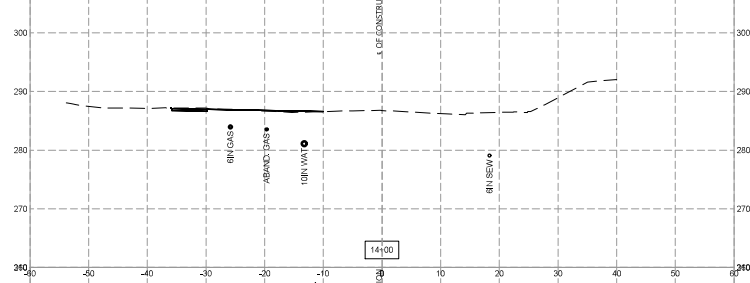
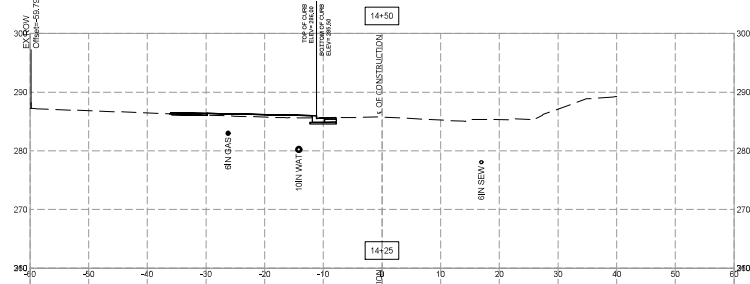
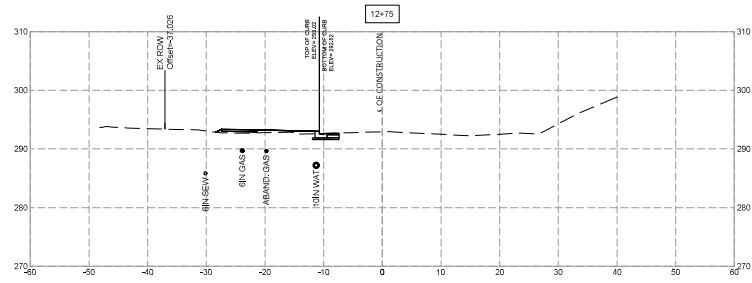
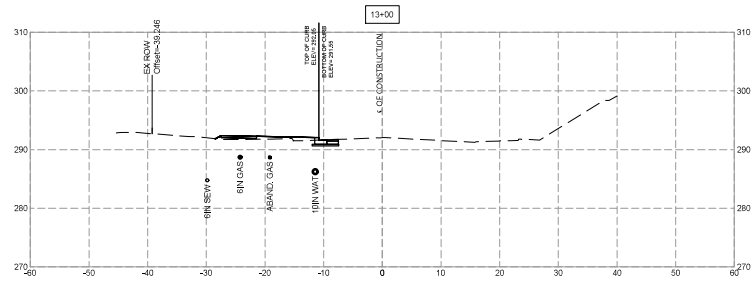
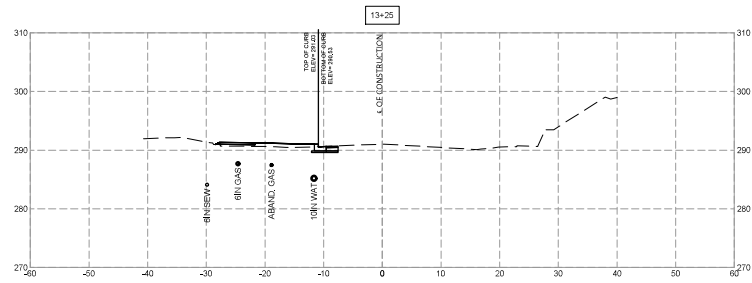
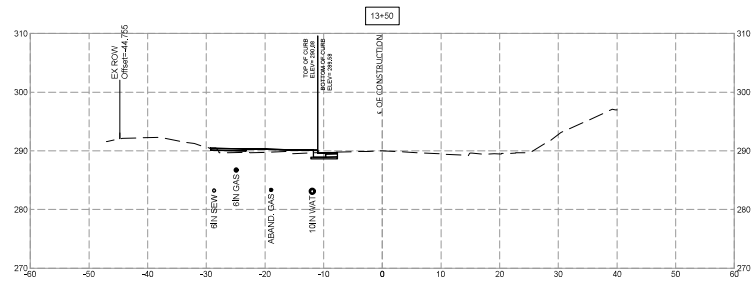
NO.	問題番号	DATE	B

MONTGOMERY COUNTY		
DEPARTMENT OF TRANSPORTATION		
ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
Chief, Design Section	_____	Date _____
APPROVED	_____	
Chief, Division of Transportation	_____	Date _____
Designed by: _____	Drawn by: _____	Checked by: _____

FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS

SCALE : XS - 06

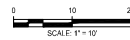
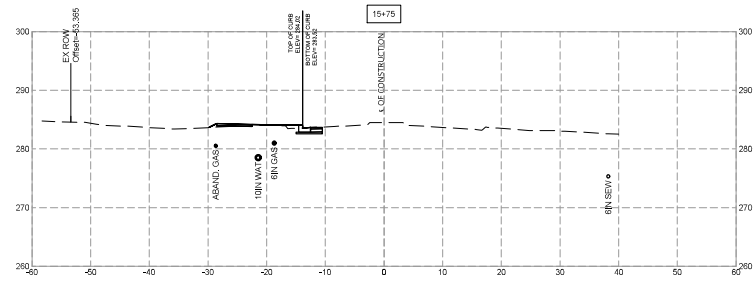
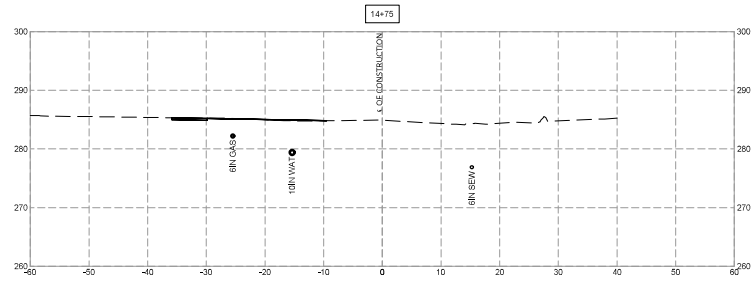
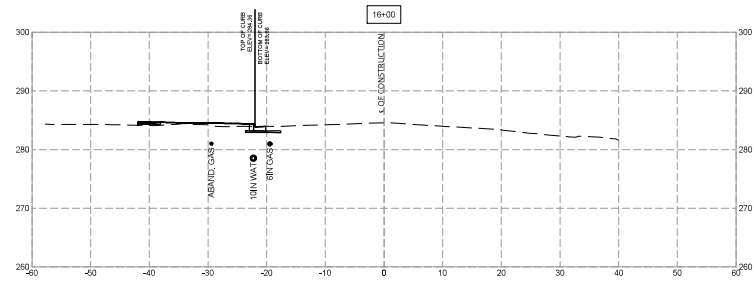
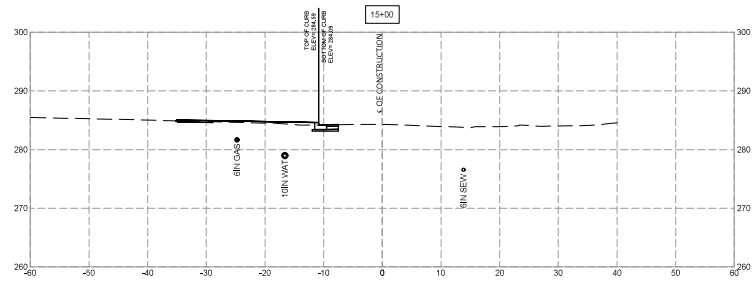
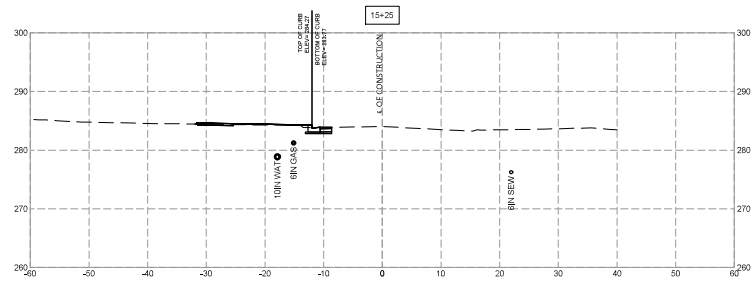
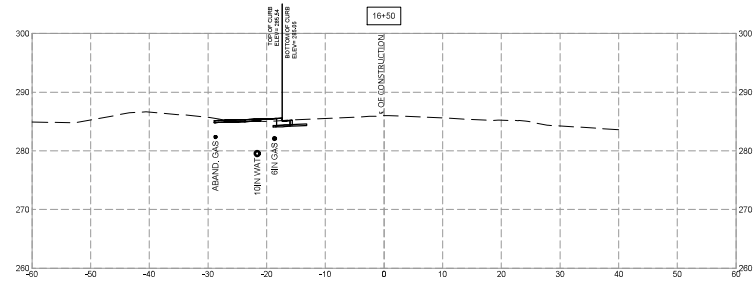
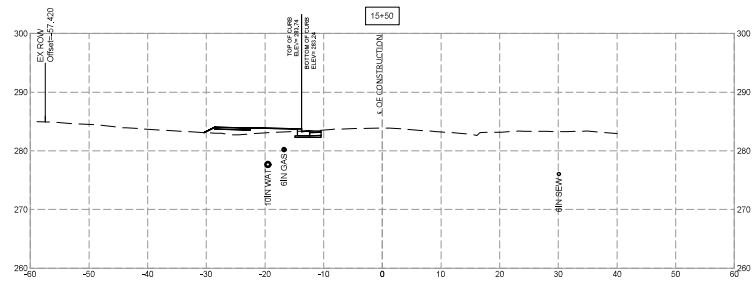
Project No. : TSD 80 of 102



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	
APPROVED	Date
Chief, Division of Transportation	
Designed by:	Drawn by:
	Checked by:

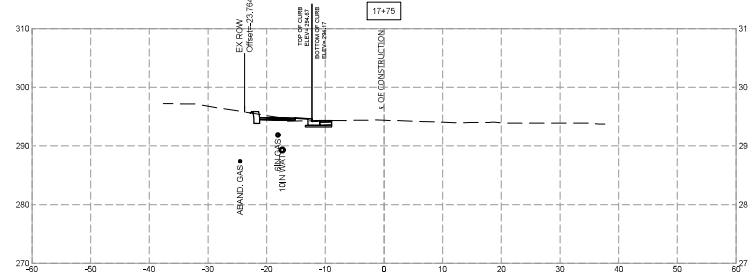
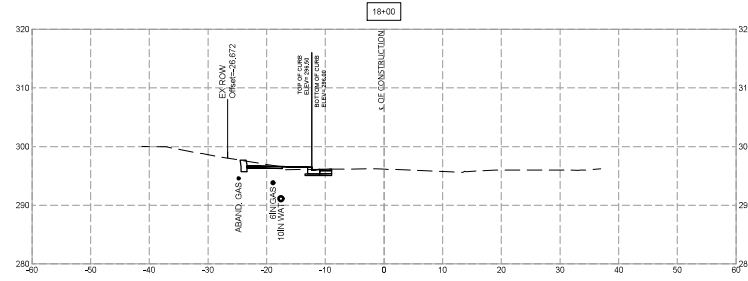
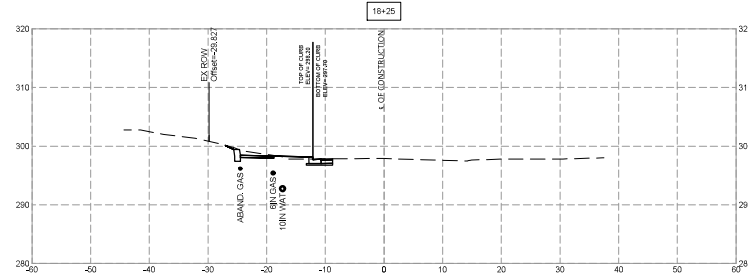
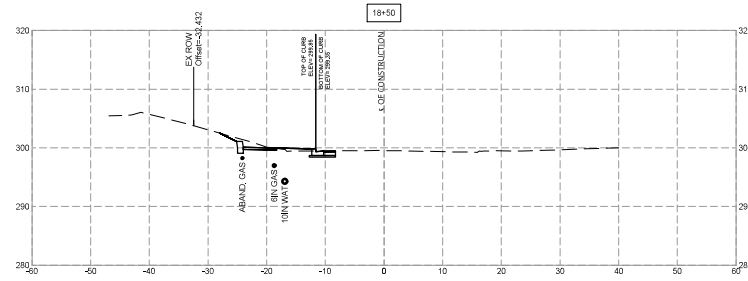
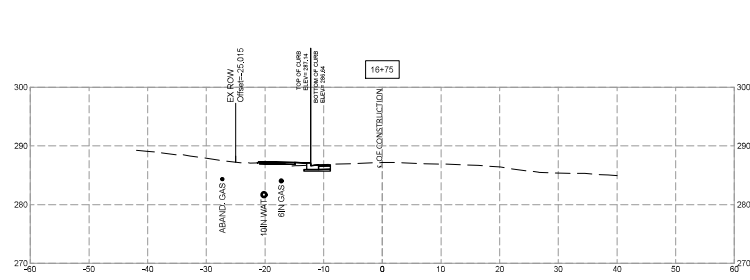
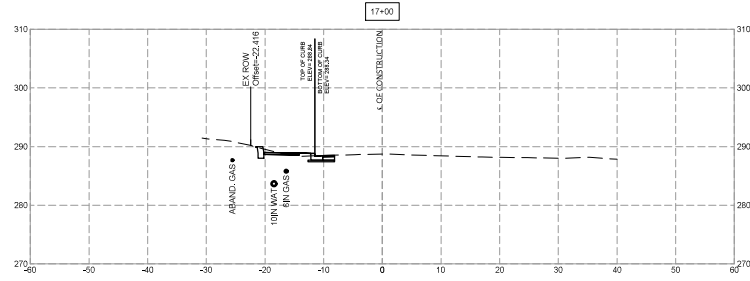
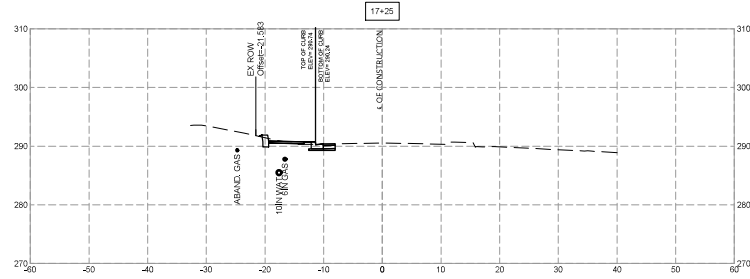
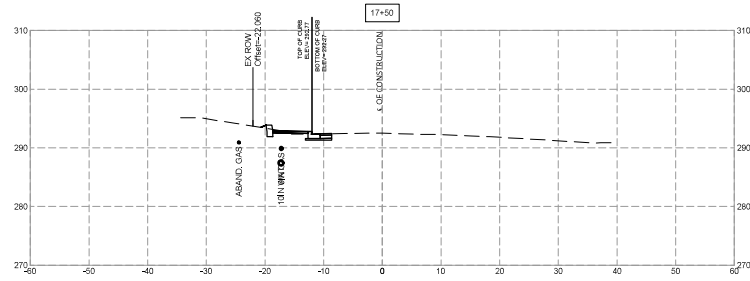
FRANKLIN AVENUE SIDEWALK CROSS SECTIONS	
SCALE:	XS - 07
Project No.:	



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	Date
APPROVED	Date
Chief, Division of Transportation	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

FRANKLIN AVENUE SIDEWALK CROSS SECTIONS	
SCALE: _____	XS - 08
Project No.: _____	Sheet No.: _____ of _____



SELDON
Engineers, Architects
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Phone: (301) 440-2020 Fax: (301) 440-7174
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation _____ Date _____

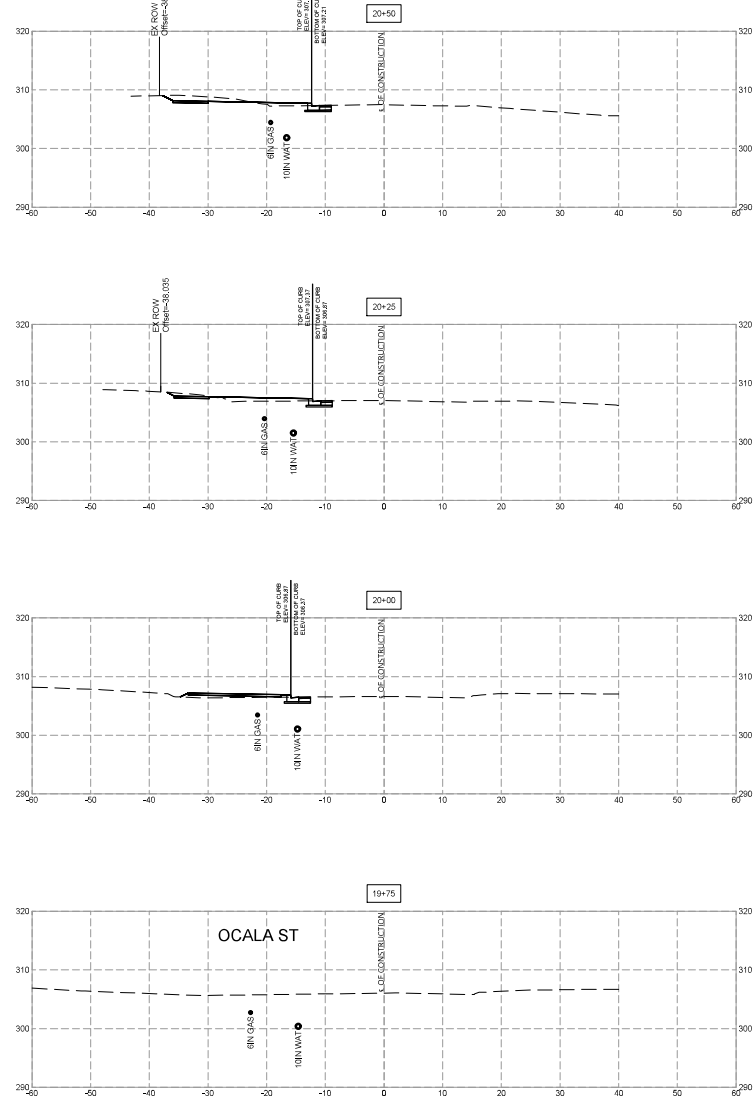
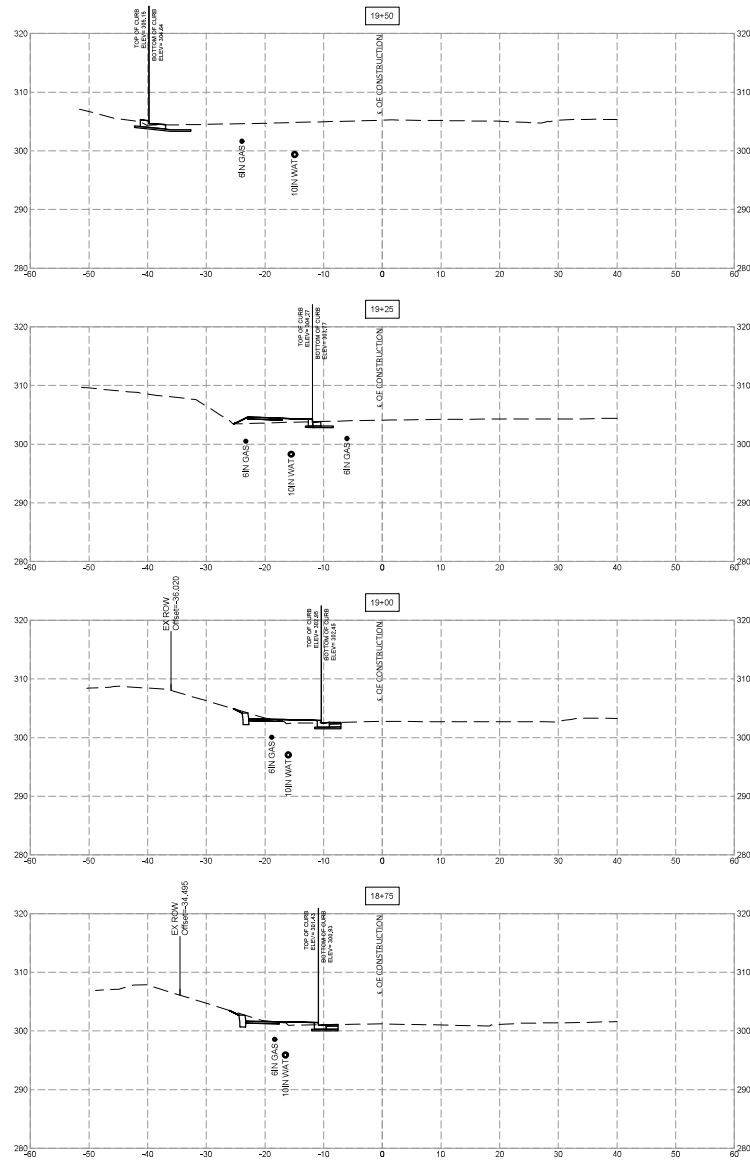
Designed by: _____ Drawn by: _____ Checked by: _____

**FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS**

SCALE: _____

Project No.: 286 of 109

XS - 09



SEAL
Engineers, Architects
Development Consultants
 1819 South Green Road, Rockville, MD, 20850
 Phone: 301.440.4000 Fax: 301.440.7174
 www.sealinc.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
 Chief, Design Section
 APPROVED _____ Date _____

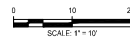
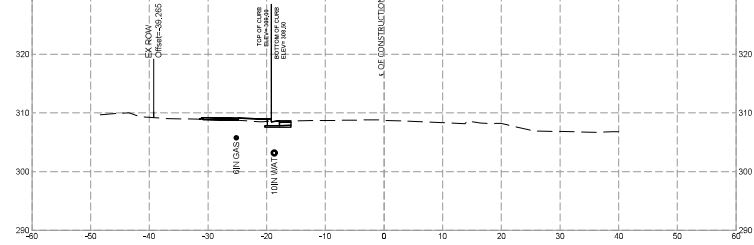
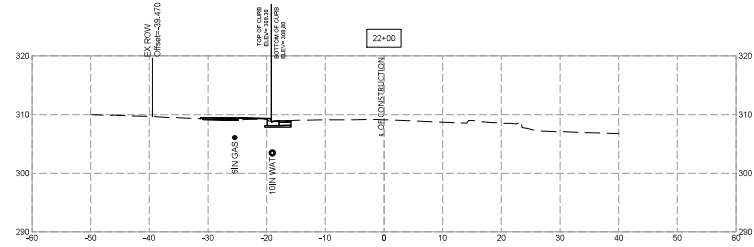
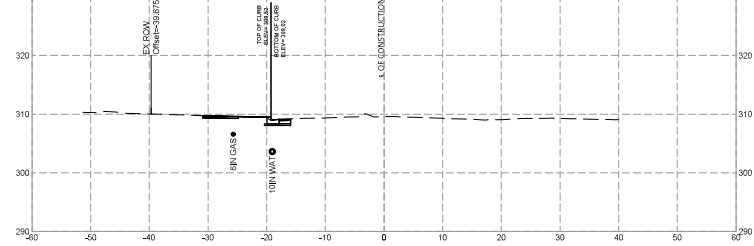
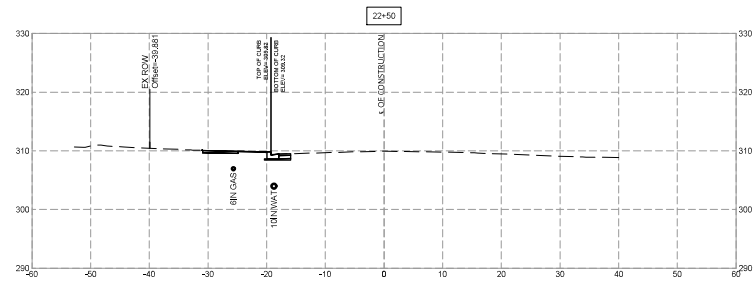
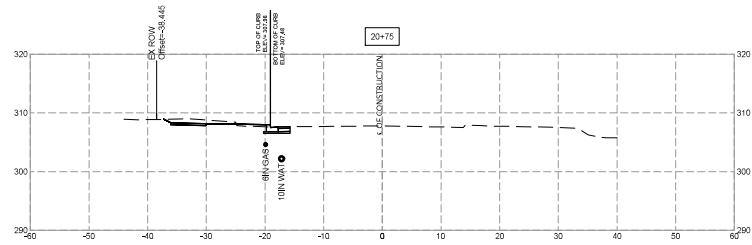
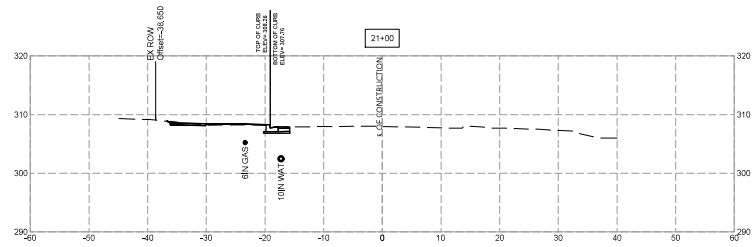
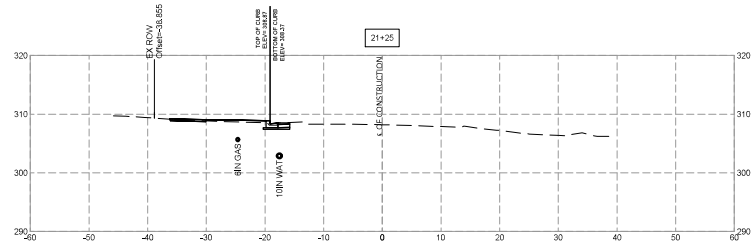
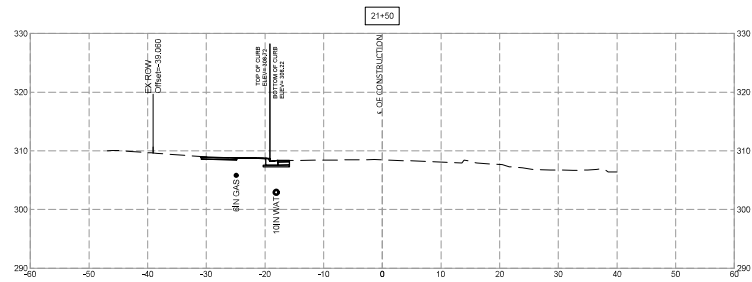
Chief, Division of Transportation
 DESIGNED BY _____ DATE _____
 DRAWN BY _____ CHECKED BY _____

FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS

SCALE: _____

XS - 10

Project No.: _____ of _____

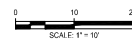
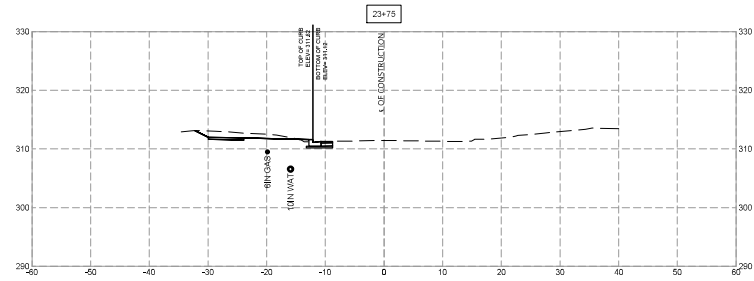
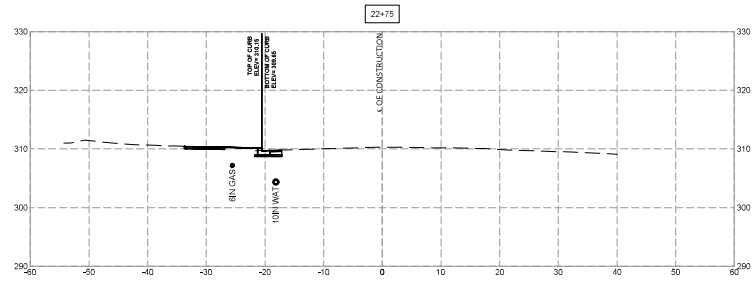
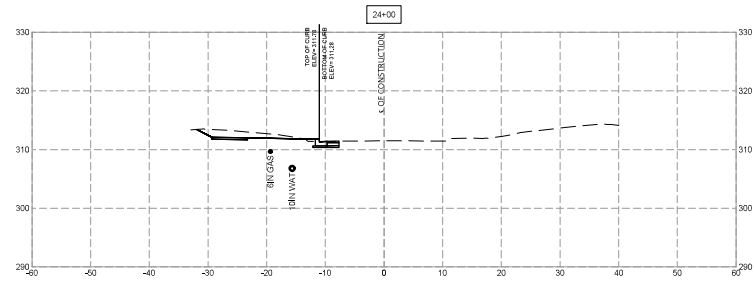
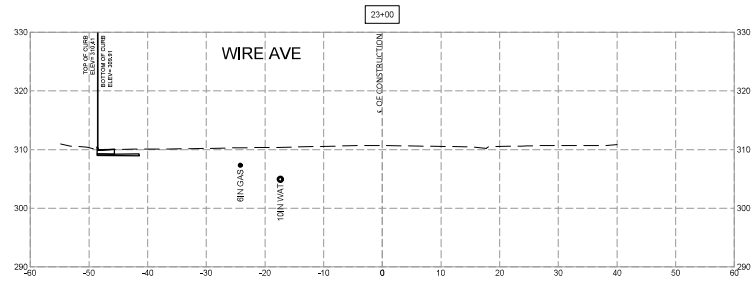
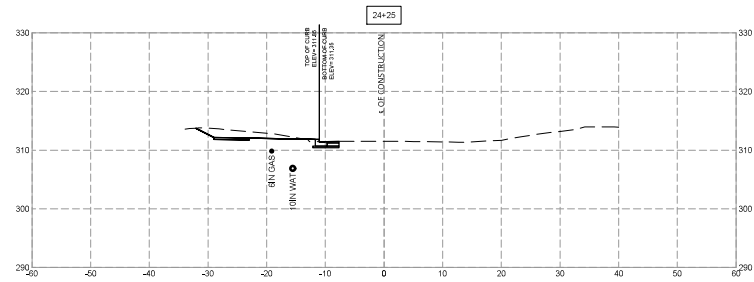
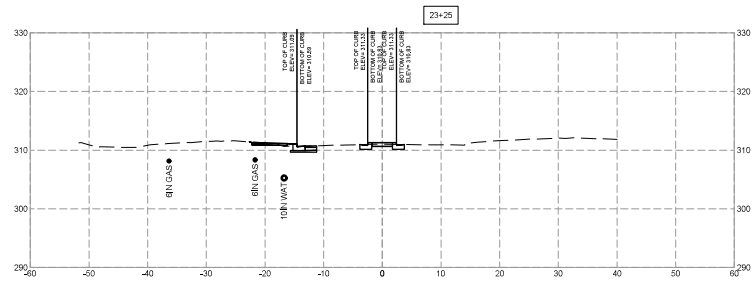
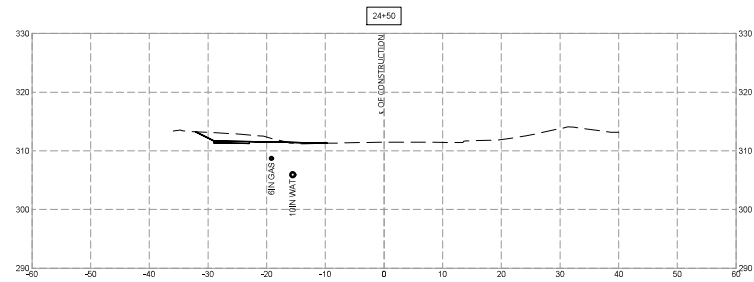
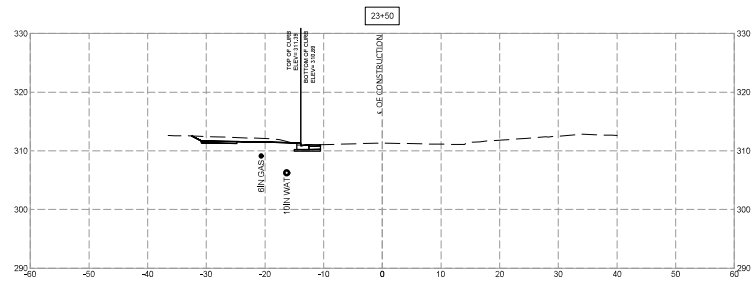


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1819 South Green Road, Rockville, MD, 20850
Phone: 301-584-0000 Fax: 301-584-0001
www.sheladec.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date: _____
Chief, Design Section	_____
APPROVED	Date: _____
Chief, Division of Transportation	_____
Designed by: _____	Drawn by: _____
Checked by: _____	_____

FRANKLIN AVENUE SIDEWALK CROSS SECTIONS	
SCALE: _____	XS - 11
Project No.: _____	_____ of _____



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Engineers, Architects
Development Consultants
1875 South Central Road, Rockville, MD, 20850
Phone: 301-440-2025 Fax: 301-440-7174
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NO.	REVISION	DATE	BY

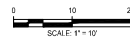
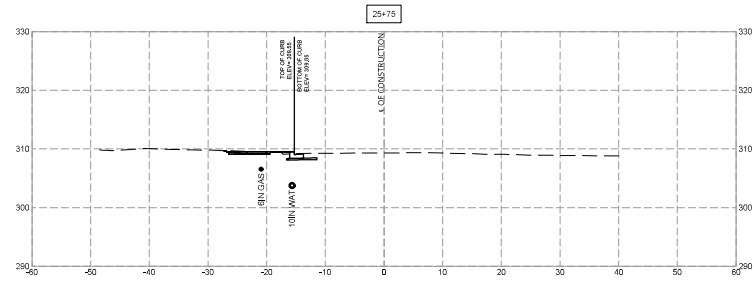
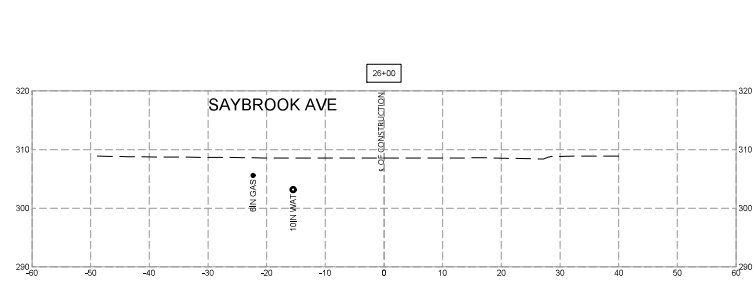
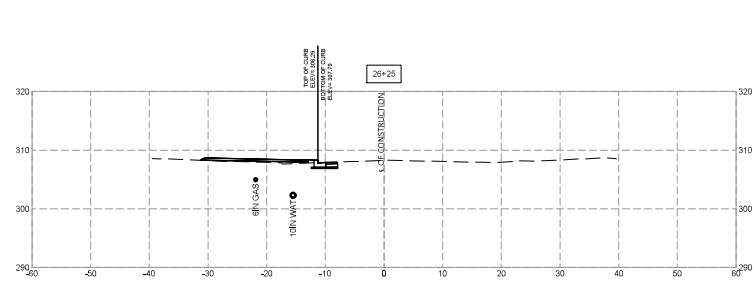
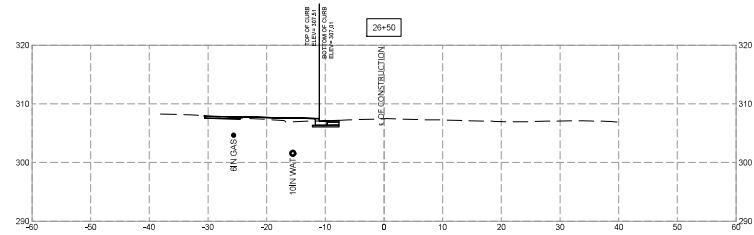
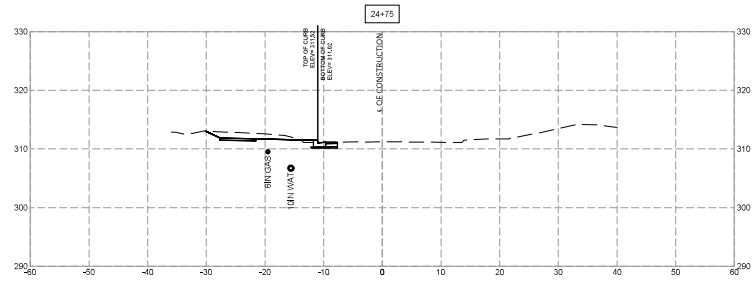
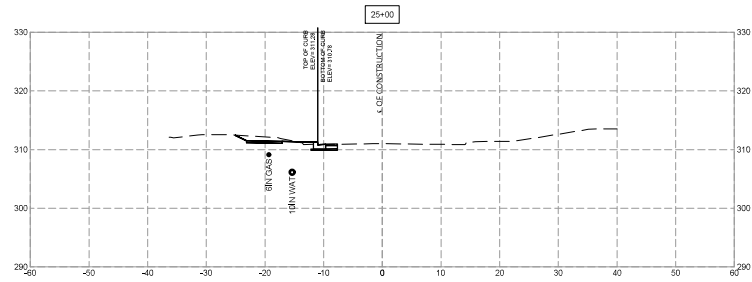
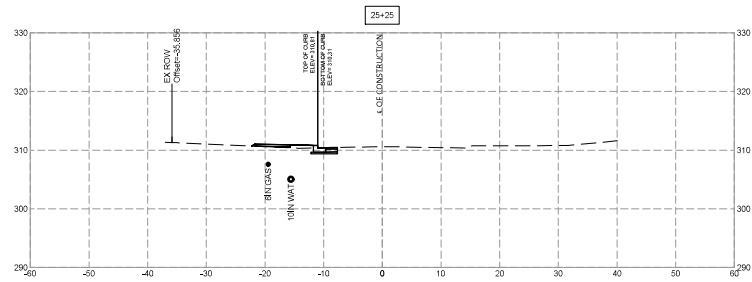
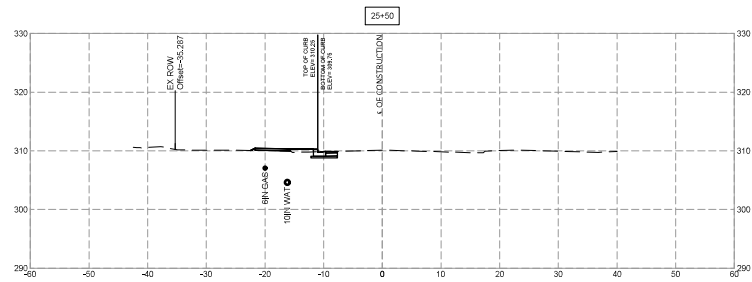
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	Date
APPROVED	Date
Chief, Division of Transportation	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS

SCALE:

XS - 12

Project No.: 100 of 100

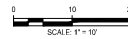
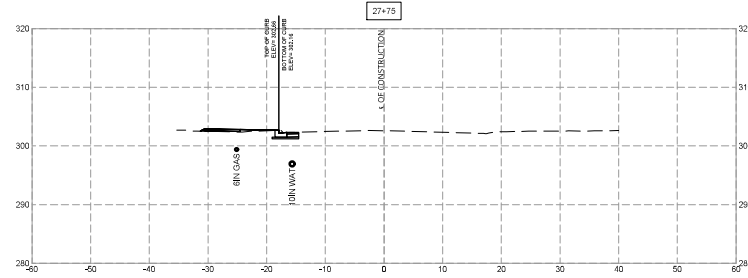
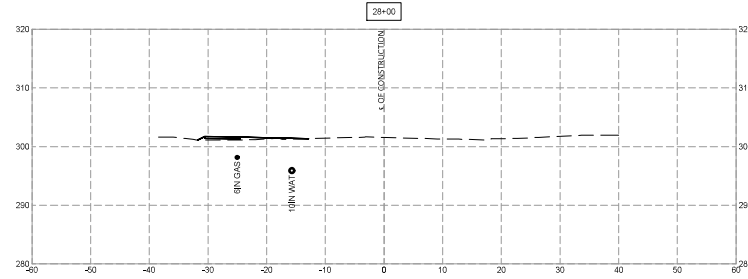
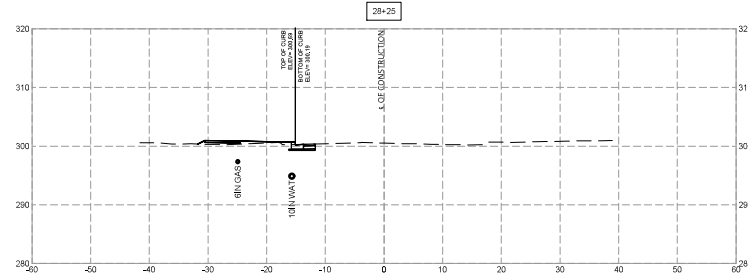
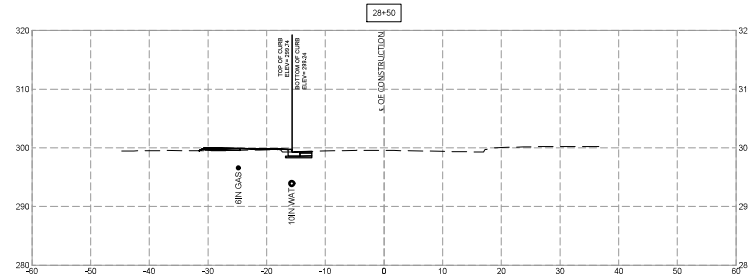
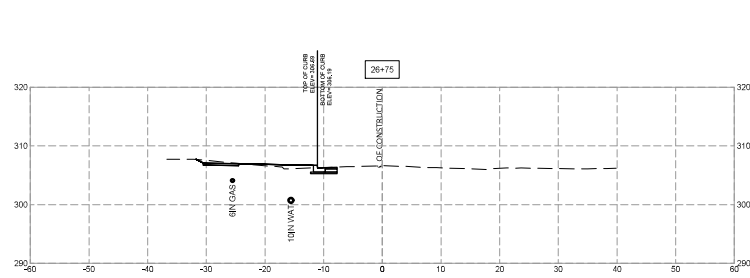
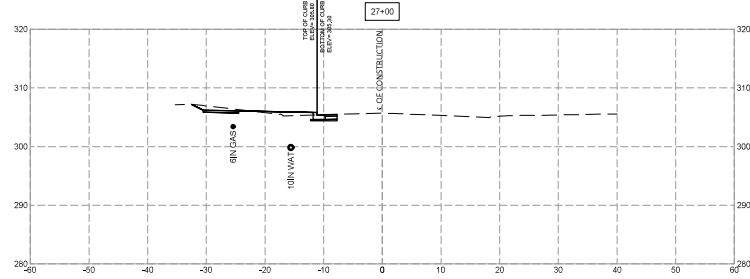
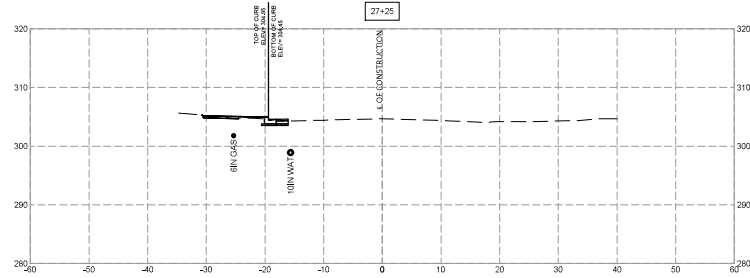
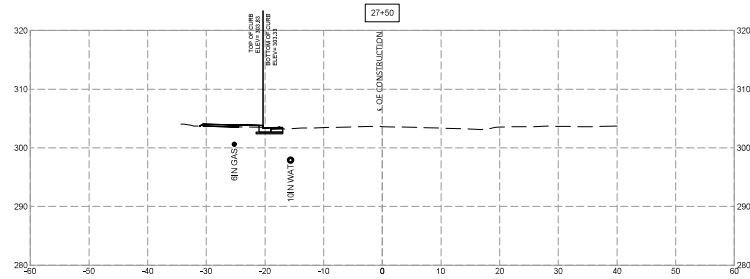


SHELADY
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1819 South Central Avenue, Rockville, MD, 20850
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www.sheledy.com

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	
APPROVED	Date
Chief, Division of Transportation	
Designed by: _____	Checked by: _____
Drawn by: _____	

FRANKLIN AVENUE SIDEWALK CROSS SECTIONS	
SCALE: _____	XS - 13
Project No.: _____	Sheet No. 97 of 109

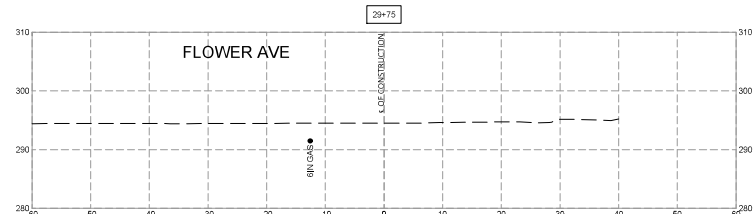
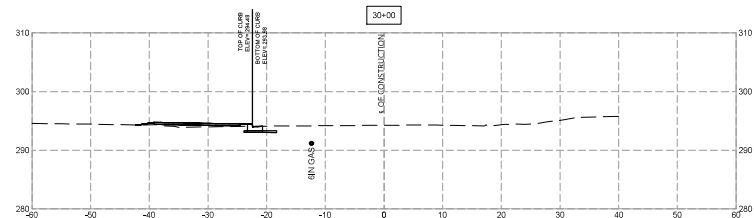
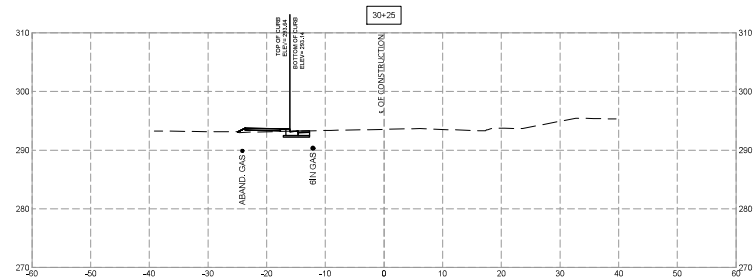
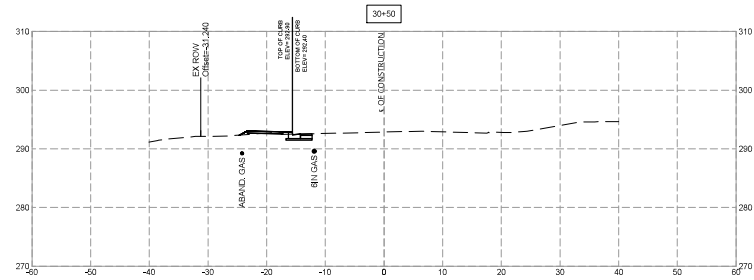
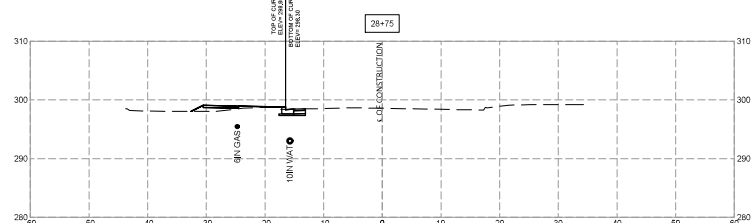
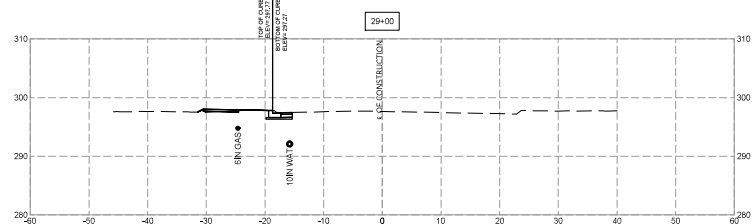
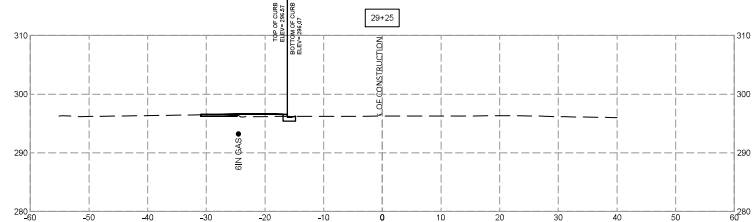
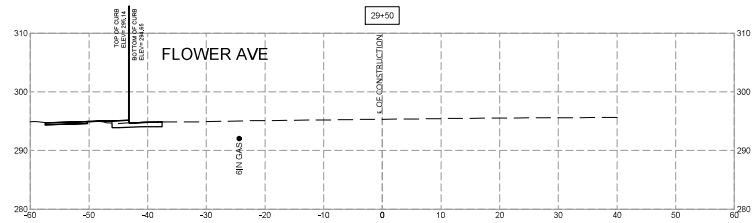


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1819 South Grant Road, Rockville, MD, 20850
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date: _____
Chief, Design Section	
APPROVED	Date: _____
Chief, Division of Transportation	
Designed by: _____	Drawn by: _____
Checked by: _____	

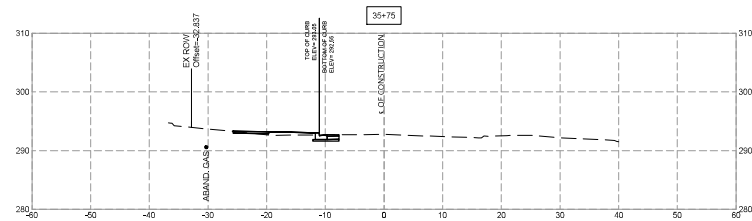
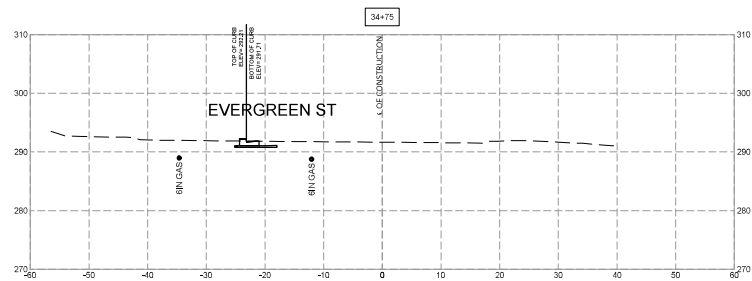
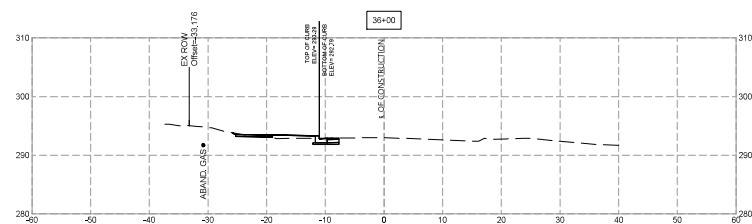
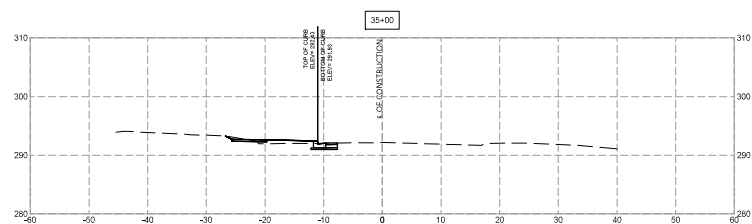
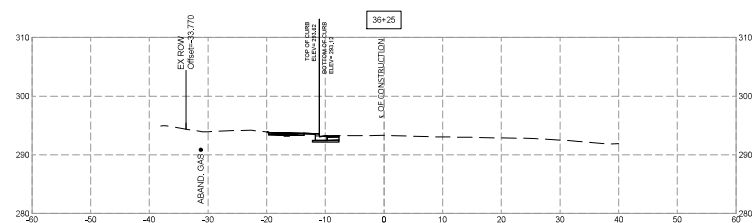
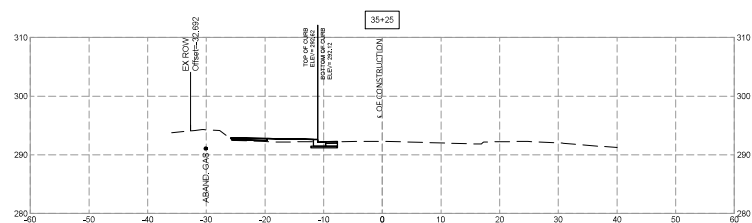
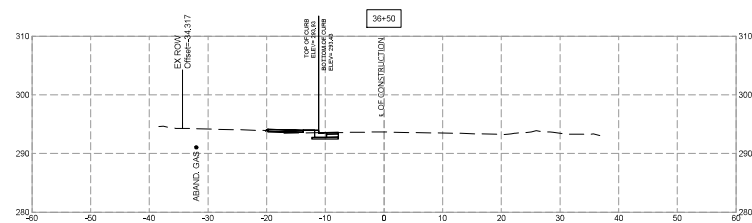
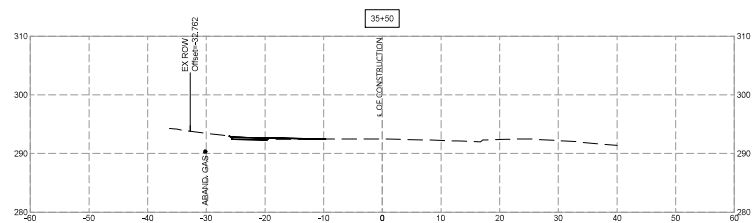
FRANKLIN AVENUE SIDEWALK CROSS SECTIONS	
SCALE: _____	XS - 14
Project No.: _____ of _____	



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section	Date
APPROVED	Date
Chief, Division of Transportation	Date
Designed by: _____	Drawn by: _____
Checked by: _____	

FRANKLIN AVENUE SIDEWALK CROSS SECTIONS	
SCALE: _____	XS - 15
Project No.: _____	of _____



NO.	附錄標題	DATE	B

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 Address _____

Chief, Division of Transportation _____ Date _____

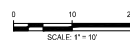
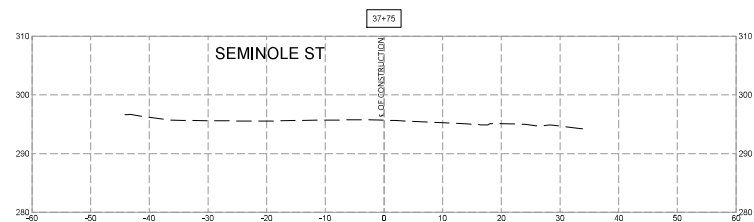
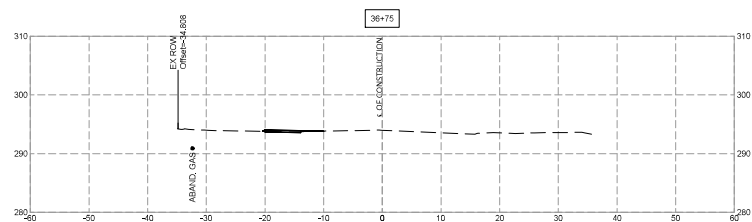
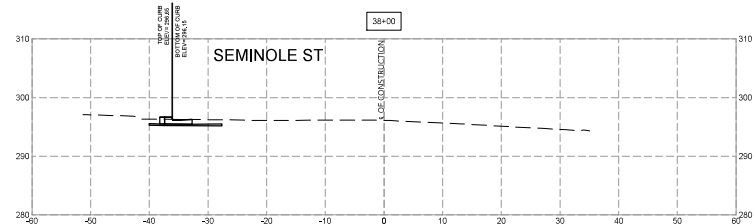
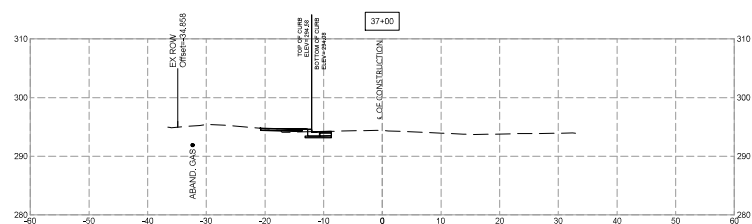
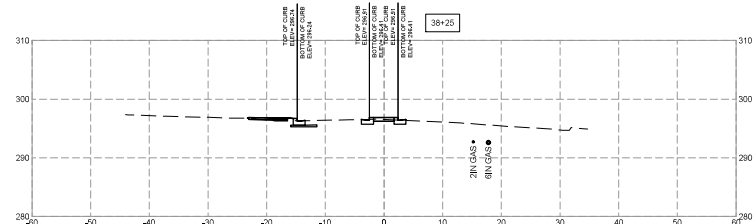
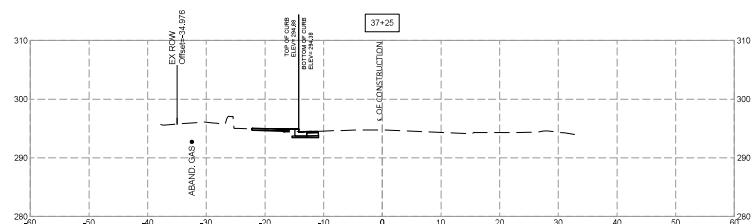
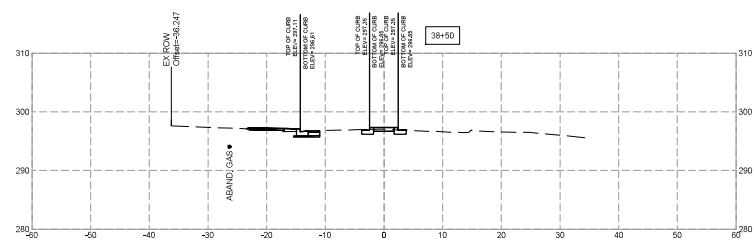
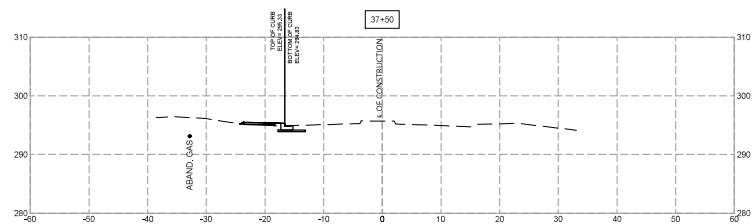
Designed by: _____ Drawn by: _____ Checked by: _____

FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS

SCALE:

XS - 18

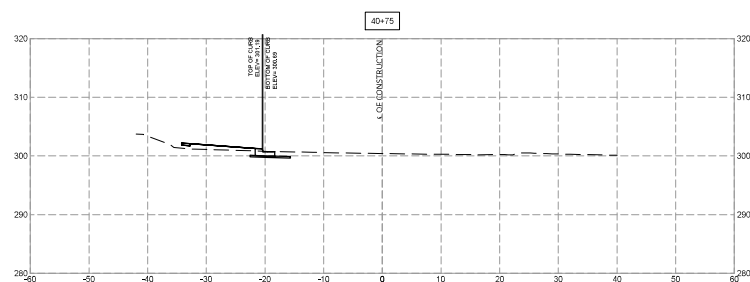
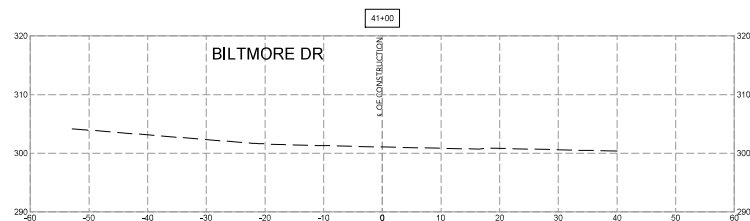
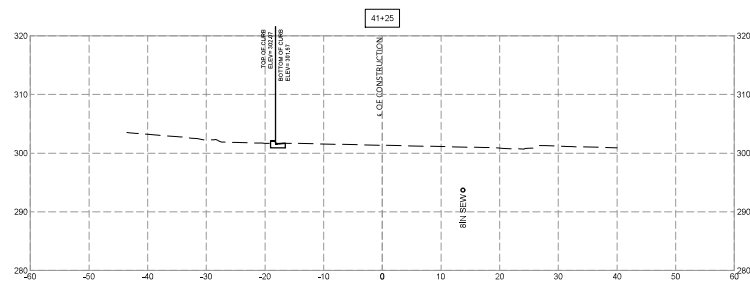
Project No. : TBD 102 of 109

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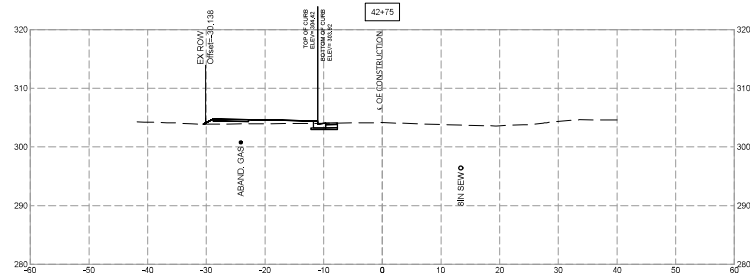
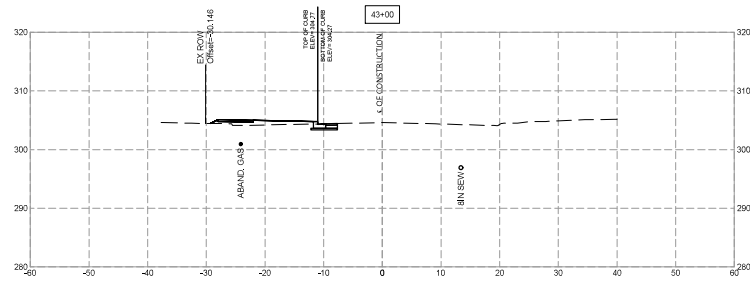
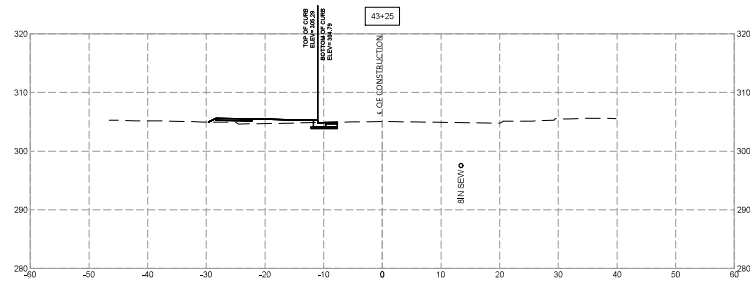
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
Chief, Design Section	_____	Date
APPROVED	_____	
Chief, Division of Transportation	_____	Date
Designed by: _____	Checked by: _____	Checked by: _____

FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS

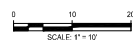
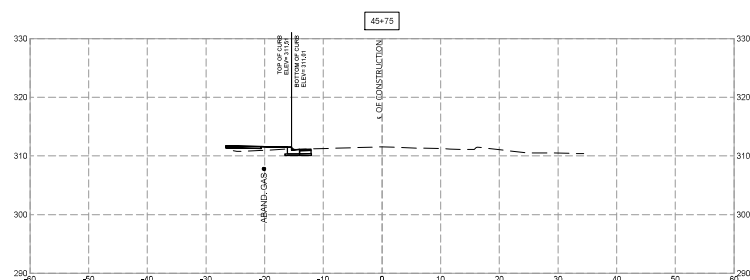
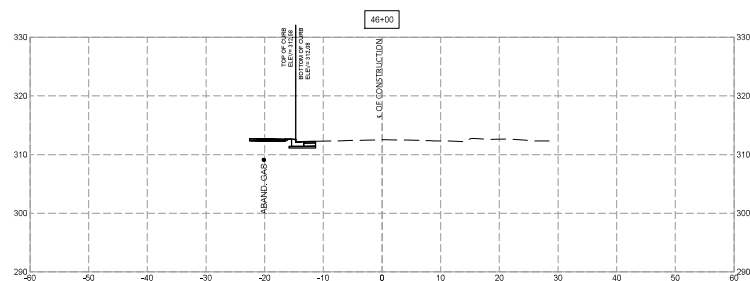
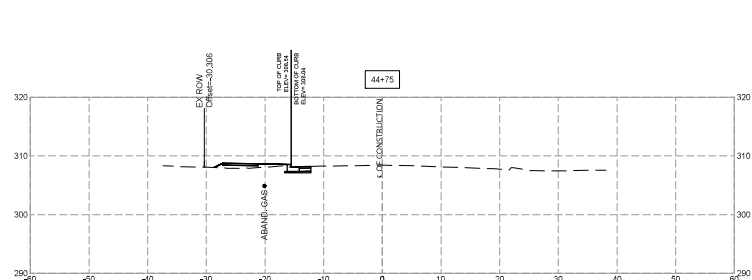
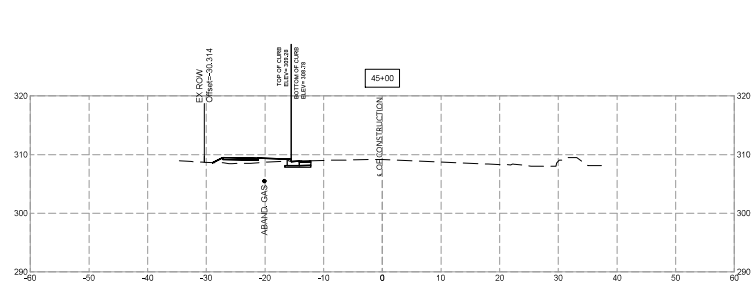
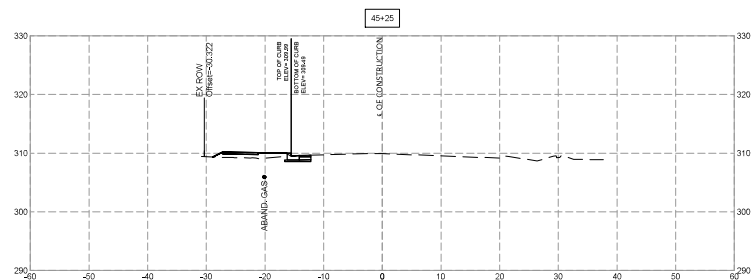
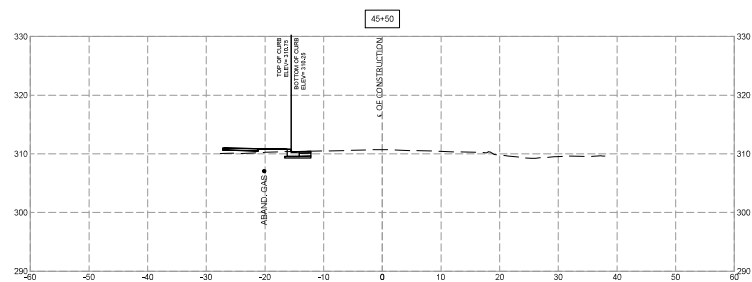
SCALE :	XS - 19
Project No. :	TRD 103 of 109



FRANKLIN AVENUE SIDEWALK CROSS SECTIONS



SHEET NO.	TOTAL SHEETS
107	109



No.	問題番号	DATE	B

MONTGOMERY COUNTY		
DEPARTMENT OF TRANSPORTATION		
ROCKVILLE, MARYLAND		
RECOMMENDED FOR APPROVAL		
Chief, Design Section	_____	Date _____
APPROVED	_____	
Chief, Division of Transportation	_____	Date _____
Designed by: _____	Drawn by: _____	Checked by: _____

FRANKLIN AVENUE
SIDEWALK
CROSS SECTIONS

SCALE : XS - 23

Project No. : TRD 107 of 109

