

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION

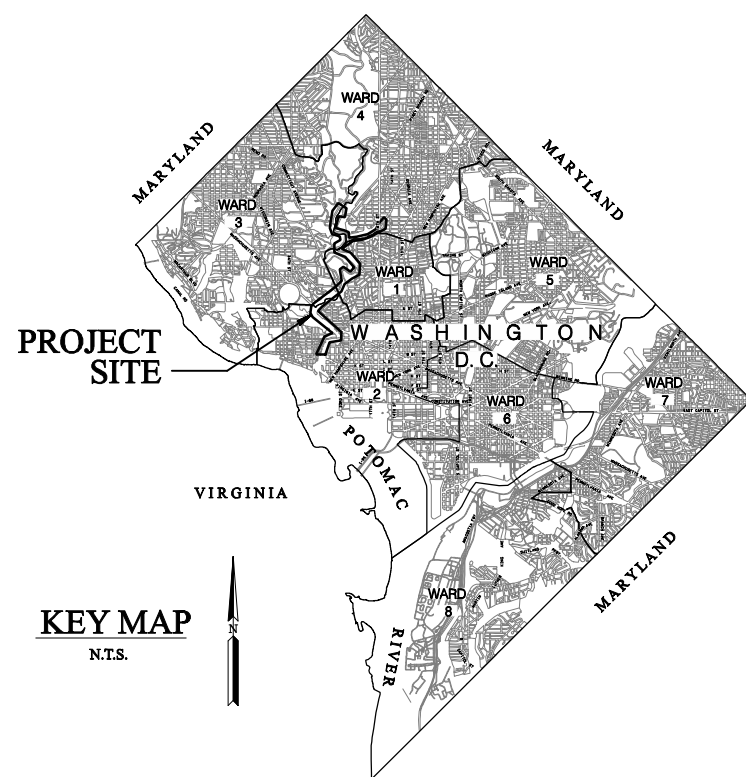


PLANS OF PROPOSED ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION

DCKA-XXXX-X-XXXX

FAP NO. STP-XXXX(XXX)

REHABILITATION = 22,500 FT = 4.26 MILES
NEW CONSTRUCTION = 8,775 FT = 1.66 MILES
LENGTH OF PROJECT = 31,275 FT = 5.92 MILES

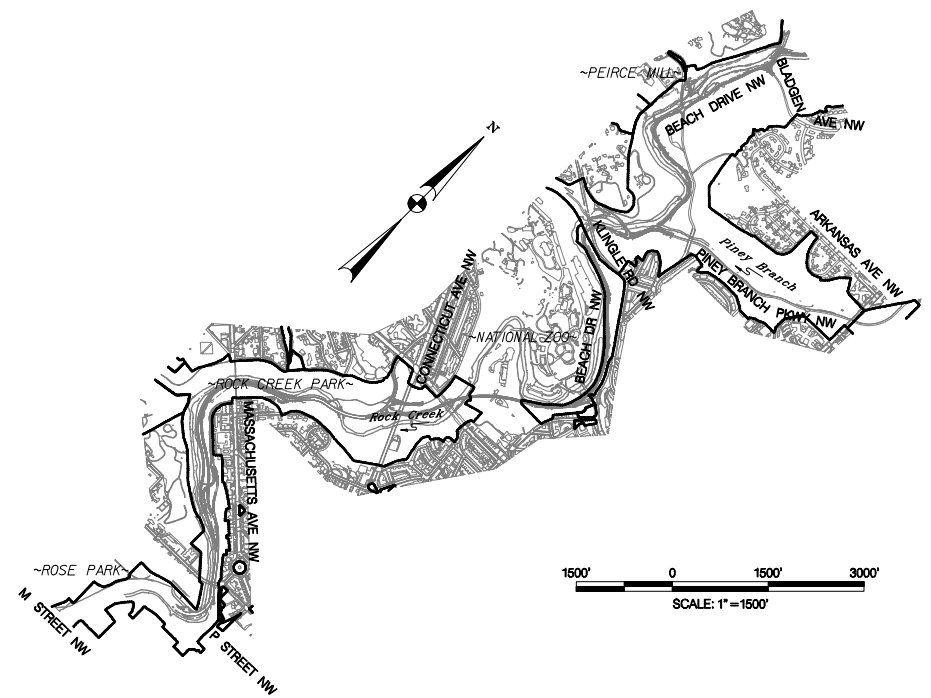


VOLUME I - PLANS
30% DESIGN SUBMITTAL
SEPTEMBER 2013

TRAFFIC DATA			
	BEACH DRIVE	ROCK CRK POTOMAC PARKWAY	PINEY BRANCH PARKWAY
AADT (2010)	23,500	27,900	11,200
AADT (2030)*	42,400	50,390	20,230
DDHV (2030)*	-	-	-
DISTRIBUTION	-	-	-
TRUCKS**	0%	0%	0%
CONTROL OF ACCESS	PARTIAL	FULL	NONE
POSTED SPEED	25 MPH	25 MPH	25 MPH
DESIGN SPEED	30 MPH	30 MPH	30 MPH
FUNCTIONAL CLASS	MINOR ARTERIAL	PRINCIPAL ARTERIAL	MINOR ARTERIAL

DESIGN VEHICLE = SINGLE UNIT TRUCK (SU)

*GROWTH RATE = 3%; K = 10%
**TRUCKS PROHIBITED IN ROCK CREEK PARK.



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4	GN-02	STANDARD SYMBOLS AND ABBREVIATIONS
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117-124	BL-01 TO BL-08	BORING LOGS

NOT FOR CONSTRUCTION

Stantec
Baltimore, MD
USA
Tel. 410.583.6700
Fax. 410.583.6704
www.stantec.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL:

PROGRAM MANAGER _____ DATE _____

APPROVED:

DEPUTY DIRECTOR / CHIEF TRANSPORTATION ENGINEER _____ DATE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		002	124

Sheet No.	Drawing No.	Sheet Name
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002	IS-01	INDEX OF SHEETS
003	GN-01	GENERAL NOTES
004	GN-02	STANDARD SYMBOLS AND ABBREVIATIONS
005	SQ-01	SUMMARY OF PAY ITEMS AND QUANTITIES
006	GL-01	GEOMETRIC LAYOUT
007	GL-02	GEOMETRIC LAYOUT
008	GL-03	GEOMETRIC LAYOUT
009	GL-04	GEOMETRIC LAYOUT
010	GL-05	GEOMETRIC LAYOUT
011	GL-06	GEOMETRIC LAYOUT
012	GL-07	GEOMETRIC LAYOUT
013	GL-08	GEOMETRIC LAYOUT
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016	GL-11	GEOMETRIC LAYOUT
017	TS-01	PROPOSED TYPICAL SECTIONS
018	TS-02	PROPOSED TYPICAL SECTIONS
019	TS-03	PROPOSED TYPICAL SECTIONS
020	TS-04	PROPOSED TYPICAL SECTIONS
021	TS-05	PROPOSED TYPICAL SECTIONS
022	TS-06	PROPOSED TYPICAL SECTIONS
023	TS-07	PROPOSED TYPICAL SECTIONS
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025	PD-01	PAVEMENT DETAILS
026	DE-01	DETAILS
027	DE-02	DETAILS
028	DE-03	DETAILS
029	DE-04	DETAILS
030	DE-05	DETAILS
031	DE-06	DETAILS
032	DE-07	DETAILS
033	DE-08	DETAILS
034	DE-09	DETAILS
035	DE-10	DETAILS
036	DE-11	DETAILS
037	DE-12	DETAILS
038	KEY-01	KEY SHEET LEGEND
039	PS-01	PLAN AND PROFILE SHEET - STA. 100+00 TO STA. 105+34, AND STA. 2000+00 TO STA. 2005+50
040	PS-01A	PROFILE SHEET - STA. 2000+00 TO STA. 2005+50
041	PS-02	PLAN AND PROFILE SHEET - STA. 2005+50 TO STA. 2011+50
042	PS-03	PLAN AND PROFILE SHEET - STA. 2011+50 TO STA. 2017+50
043	PS-04	PLAN AND PROFILE SHEET - STA. 2017+50 TO STA. 2022+10
044	PS-05	PLAN AND PROFILE SHEET - STA. 3000+00 TO STA. 3006+00
045	PS-06	PLAN AND PROFILE SHEET - STA. 3006+00 TO STA. 3012+00
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049	PS-10	PLAN AND PROFILE SHEET - STA. 3030+00 TO STA. 3036+00
050	PS-11	PLAN AND PROFILE SHEET - STA. 3036+00 TO STA. 3041+02
051	PS-12	PLAN AND PROFILE SHEET - STA. 4000+00 TO STA. 4004+00
052	PS-13	PLAN AND PROFILE SHEET - STA. 4004+00 TO STA. 4010+00
053	PS-14	PLAN AND PROFILE SHEET - STA. 4010+00 TO STA. 4016+00
054	PS-15	PLAN AND PROFILE SHEET - STA. 4016+00 TO STA. 4020+00
055	PS-16	PLAN AND PROFILE SHEET - STA. 200+00 TO STA. 202+44, AND STA. 400+00 TO STA. 401+00
056	PS-17	PLAN AND PROFILE SHEET - STA. 112+01 TO STA. 116+50
057	PS-18	PLAN AND PROFILE SHEET - STA. 116+50 TO STA. 121+00
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060	PS-21	PLAN AND PROFILE SHEET - STA. 412+00 TO STA. 418+00
061	PS-22	PLAN AND PROFILE SHEET - STA. 418+00 TO STA. 424+00
062	PS-23	PLAN AND PROFILE SHEET - STA. 424+00 TO STA. 426+46
063	PS-24	PLAN AND PROFILE SHEET - STA. 5000+00 TO STA. 5006+00
064	PS-25	PLAN AND PROFILE SHEET - STA. 5006+00 TO STA. 5012+00, AND 900+00 TO STA. 901+50
065	PS-25A	PLAN AND PROFILE SHEET - STA. 901+50 TO STA. 902+63
066	PS-26	PLAN AND PROFILE SHEET - STA. 5012+00 TO STA. 5018+00
067	PS-27	PLAN AND PROFILE SHEET - STA. 5018+00 TO STA. 5024+00
068	PS-28	PLAN AND PROFILE SHEET - STA. 5024+00 TO STA. 5030+00
069	PS-29	PLAN AND PROFILE SHEET - STA. 5030+00 TO STA. 5036+00
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073	PS-33	PLAN AND PROFILE SHEET - STA. 6012+00 TO STA. 6017+00, AND STA. 511+00 TO STA. 515+69
074	PS-33A	PROFILE SHEET - STA. 511+00 TO STA. 515+69
075	PS-34	PLAN AND PROFILE SHEET - STA. 501+06 TO STA. 505+00
076	PS-35	PLAN AND PROFILE SHEET - STA. 505+00 TO STA. 511+00
077	PS-36	PLAN AND PROFILE SHEET - STA. 7000+00 TO STA. 7004+00
078	PS-37	PLAN AND PROFILE SHEET - STA. 7004+00 TO STA. 7010+00
079	PS-38	PLAN AND PROFILE SHEET - STA. 7010+00 TO STA. 7015+40
080	PS-39	PLAN AND PROFILE SHEET - STA. 8000+00 TO STA. 8005+00
081	PS-40	PLAN AND PROFILE SHEET - STA. 8005+00 TO STA. 8010+00
082	PS-41	PLAN AND PROFILE SHEET - STA. 8010+00 TO STA. 8015+00, AND STA. 600+00 TO STA. 603+50
083	PS-41A	PROFILE SHEET - STA. 600+00 TO STA. 603+50
084	PS-42	PLAN AND PROFILE SHEET - STA. 8015+00 TO STA. 8019+00, AND STA. 603+50 TO STA. 607+50
085	PS-42A	PROFILE SHEET - STA. 603+50 TO STA. 607+50

Sheet No.	Drawing No.	Sheet Name
086	PS-43	PLAN AND PROFILE SHEET - STA. 8019+00 TO STA. 8020+77, AND STA. 607+50 TO STA. 612+00
087	PS-43A	PROFILE SHEET - STA. 607+50 TO STA. 612+00
088	PS-44	PLAN AND PROFILE SHEET - STA. 612+00 TO STA. 616+48
089	PS-45	PLAN AND PROFILE SHEET - STA. 9001+00 TO STA. 9006+00
090	PS-46	PLAN AND PROFILE SHEET - STA. 9006+00 TO STA. 9012+00
091	PS-47	PLAN AND PROFILE SHEET - STA. 9012+00 TO STA. 9018+00
092	PS-48	PLAN AND PROFILE SHEET - STA. 9018+00 TO STA. 9024+00
093	PS-49	PLAN AND PROFILE SHEET - STA. 9024+00 TO STA. 9030+00
094	PS-50	PLAN AND PROFILE SHEET - STA. 9030+00 TO STA. 9036+00
095	PS-51	PLAN AND PROFILE SHEET - STA. 9036+00 TO STA. 9041+00
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097	PS-53	PLAN AND PROFILE SHEET - STA. 9045+00 TO STA. 9048+59
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103	BR-02	STRUCTURAL GENERAL NOTES
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105	BR-04	ABUTMENT A - PLAN AND ELEVATION
106	BR-05	ABUTMENT B - PLAN AND ELEVATION
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110	SW-02	STORM WATER MANAGEMENT NOTES
111	SW-03	STORM WATER MANAGEMENT NOTES
112	SW-04	STORM WATER MANAGEMENT DETAILS
113	SW-05	STORM WATER MANAGEMENT PLAN
114	SW-06	STORM WATER MANAGEMENT PLAN
115	SW-07	STORM WATER MANAGEMENT PLAN
116	SW-08	STORM WATER MANAGEMENT PLAN
117	BL-01	BORING LOGS
118	BL-02	BORING LOGS
119	BL-03	BORING LOGS
120	BL-04	BORING LOGS
121	BL-05	BORING LOGS
122	BL-06	BORING LOGS
123	BL-07	BORING LOGS
124	BL-08	BORING LOGS

*REFER TO VOLUME II FOR CROSS SECTIONS

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: N.T.S.	IS-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR _____
INDEX OF SHEETS		DIVISION CHIEF _____
		DATE _____
		FILE _____
		SHEET 002 OF 124

GENERAL NOTES

GENERAL

- THIS PROJECT SHALL ADHERE TO THE CONTRACT PLANS, SPECIAL PROVISIONS, DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES, SUPPLEMENTAL SPECIFICATIONS, AND STANDARD DRAWINGS (LATEST EDITIONS). THE PROJECT SHALL ADHERE TO FHWA-EFL STANDARD SPECIFICATIONS AND STANDARD DRAWINGS WHERE NOTED ON THE PLANS.
IN CASE OF DISCREPANCY AMONG CONTRACT DOCUMENTS REFER TO STANDARD SPECIFICATIONS, SECTION 103.J, ARTICLE 2, ORDER OF PRECEDENCE.
- THIS PROJECT WILL TEMPORARILY IMPACT ROCK CREEK PARK MULTI-USE TRAIL. THE CONTRACTOR SHALL COORDINATE WITH DDOT, NPS, NATIONAL ZOO/SMITHSONIAN, AND ADJACENT PROPERTY OWNERS/TENANTS TO MAINTAIN ACCESS THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WORK AND ACCESS WITH ADJACENT CONSTRUCTION PROJECTS.
- THE CONTRACTOR SHALL COORDINATE WITH WMATA REGARDING ANY IMPACT OF THIS CONSTRUCTION UPON METRO BUS STOPS OR ROUTES WITHIN THE PROJECT AREA AND VICINITY. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE WMATA OFFICE OF JOINT DEVELOPMENT AND ADJACENT CONSTRUCTION PHONE: 301-618-1015.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING SPECIAL USE PERMITS FROM THE NATIONAL PARK SERVICE PRIOR TO CONSTRUCTION.

SURVEY

- HORIZONTAL DATUM: MARYLAND STATE PLANE COORDINATE SYSTEM
NAD 83/91
VERTICAL DATUM: D.C. ENGINEERS SURVEY DATUM
SURVEY UNIT: SURVEY FEET
- DATE OF SURVEY: 2008
SURVEY PERFORMED BY: MERCADO CONSULTANTS INC.
17830 NEW HAMPSHIRE AVE. SUITE 200
ASHTON, MD 20861
PHONE: 301-260-0090
FAX: 301-260-0018

DATE OF SUPPLEMENTAL SURVEY: DECEMBER 2012 THRU MAY 2013
SUPPLEMENTAL SURVEY PERFORMED BY: MERCADO CONSULTANTS INC.
17830 NEW HAMPSHIRE AVE. SUITE 200
ASHTON, MD 20861
PHONE: 301-260-0090
FAX: 301-260-0018
- GIS PHOTOGRAMMETRIC DATA (I.E. CONTOURS, BUILDING FOOTPRINTS, EDGE OF ROAD, ETC.) IS SHOWN BEYOND THE LIMIT OF SURVEY FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION. THE DATA WAS DOWNLOADED FROM THE DISTRICT OF COLUMBIA - OFFICE OF THE CHIEF TECHNOLOGY OFFICER (OCTO) AND/OR PROVIDED BY OTHER THIRD PARTIES.
- RIGHT OF WAY LINES, PROPERTY LINES, OWNERS, AND ADDRESSES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION. THE DATA WAS DOWNLOADED FROM THE DISTRICT OF COLUMBIA - OFFICE OF THE CHIEF TECHNOLOGY OFFICER (OCTO) AND/OR PROVIDED BY OTHER THIRD PARTIES.

UTILITIES

- DATE OF UTILITY DESIGNATION: DECEMBER 2012
UTILITY DESIGNATION PERFORMED BY: EDWARDS UTILITY MAPPING CORPORATION
11 MARSH RUN ROAD
FREDERICKSBURG, VA 22406
540.737.5141
540.737.5145 Fax
WWW.EUMCORP.COM

Q/L B UTILITY DESIGNATION WAS PERFORMED WITHIN THE BEACH DRIVE TUNNEL. Q/L A UTILITY LOCATE (TEST HOLE) WAS PERFORMED TO THE SOUTH OF THE BEACH DRIVE TUNNEL ENTRANCE TO LOCATE THE 42" COMBINED SEWER NEAR THE PROPOSED PEDESTRIAN BRIDGE ABUTMENT.

ALL OTHER UTILITIES SHOWN IN THE PLANS (COMBINED SEWER, SANITARY SEWER, AND WATER) ARE BASED ON RECORDS RESEARCH ONLY AND SHOULD BE CONSIDERED QUALITY LEVEL D. ACTUAL UTILITY LOCATIONS SHALL BE CONFIRMED PRIOR TO CONSTRUCTION EXCAVATION.

- CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-257-7777) 48 HOURS PRIOR TO ANY EXCAVATION WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO BEGINNING EXCAVATION.

THE FOLLOWING UTILITY COMPANIES SHALL ALSO BE SPECIFICALLY NOTIFIED SIX WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION:

DC WATER XXX-XXX-XXXX
PEPCO XXX-XXX-XXXX
WASHINGTON GAS XXX-XXX-XXXX

- NO MECHANIZED EQUIPMENT SHALL BE USED FOR EXCAVATION IN CLOSE PROXIMITY TO UTILITIES. CONTRACTOR SHALL HAND DIG ONLY.
- THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING AND PROTECTING EXISTING UTILITIES AS DIRECTED BY THE ENGINEER AND UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES DUE TO NEGLIGENCE.
- IF ANY UTILITY IS ACCIDENTALLY DISRUPTED DURING CONSTRUCTION, THE UTILITY OWNER AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. TEMPORARY AND/OR PERMANENT RESTORATION OF SERVICE SHALL BE AT THE CONTRACTOR'S EXPENSE. PLANNED DISRUPTIONS IN UTILITY SERVICE MUST BE COORDINATED THROUGH THE ENGINEER.

GEOTECHNICAL INVESTIGATION

- GEOTECHNICAL INVESTIGATION AND REPORT, DATED JUNE 2013, PREPARED BY: THOMAS L. BROWN ASSOCIATES, PC
1400 EYE STREET, NW, SUITE 440
WASHINGTON, DC 20005
PHONE: (202) 387-0022 FAX: (202) 682-13671
WWW.TLBINC.NET

DESIGN VEHICLE INFORMATION PROVIDED BY NPS FOR PAVEMENT DESIGN:

VEHICLE	GVWR	FREQUENCY
CREW CAB	16,000 LB	NOT KNOWN
CLAM TRUCK	33,000 LB	NOT KNOWN
CHIP TRUCK	33,000 LB	NOT KNOWN
BUCKET TRUCK	33,000 LB	NOT KNOWN
CHIPPER	10,000 - 12,000 LB	NOT KNOWN
GATOR-1	1,900 LB	NOT KNOWN
GATOR-2	3,000 LB	ONCE PER WEEK
BOBCAT	8,300 LB	1 - 2 PER MONTH
BOBCAT TOOLCAT	4,200 LB	3 - 4 PER YEAR
BACKHOE	20,000 LB	3 - 4 PER YEAR
1-TON SMALL DUMP	13,200 LB	3 - 4 PER YEAR
DUMP TRUCK	35,000 LB	ONCE PER YEAR

NEXT DESIGN PHASE

SIGNING AND MARKING

DURING THE NEXT PHASE OF DESIGN, A SIGNING AND MARKING PLAN SHALL BE DEVELOPED TO INCLUDE PLANS FOR THE FOLLOWING ROCK CREEK PARK TRAIL CROSSINGS:

- P STREET NW RAMP
- SHOREHAM DRIVE NW
- JEWETT ST / BLUE RD (ZOO PROPERTY)
- BEACH DRIVE NW ZOO ENTRANCE
- BEACH DRIVE NW & PINEY BRANCH PARKWAY NW
- BEACH DRIVE NW & BLAGDEN AVE NW
- BEACH DRIVE NW & BROAD BRANCH RD NW

IMPROVEMENTS TO THESE CROSSINGS SHALL COMPLY WITH THE AASHTO GUIDE FOR BICYCLE FACILITIES (LATEST EDITION) AND MUTCD.

THE SIGNING AND MARKING PLANS SHALL ALSO INCLUDE SIGNAGE TO ESTABLISH RIGHT-OF-WAY PRIORITY AT HIGH VOLUME TRAIL JUNCTIONS.

TREE PROTECTION PLAN

THIS PROJECT MAY HAVE EXTENSIVE IMPACTS TO EXISTING TREES ALONG ROCK CREEK PARK MULTI-USE TRAIL. DURING THE NEXT PHASE OF DESIGN, THE FOLLOWING STEPS SHOULD BE TAKEN TO ASSESS AND MITIGATE TREE IMPACTS:

- 1) CONSULTATION WITH AN ISA CERTIFIED ARBORIST.
- 2) ARBORIST PERFORMS AN INVENTORY OF TREE SPECIES, DIAMETER, HEIGHT, CRITICAL ROOT ZONES.
- 3) IDENTIFY SPECIMEN AND CHAMPION TREES.
- 4) QUANTIFY AND EVALUATE IMPACTS.
- 5) DEVELOP PROTECTION METHODS AND GUIDELINES FOR CONSTRUCTION.
- 6) IT IS NPS AND DDOT-UFA POLICY THAT DISTURBED/DAMAGED/REMOVED TREES SHALL BE REPLACED ON A 1:1 BASIS BY DIA. AT BREAST HEIGHT (DBH).
- 7) DEVELOP TREE PROTECTION/TAKE/MITIGATION PLAN AND SPECIFICATIONS.

TREE PROTECTION MEASURES SHALL COMPLY WITH DDOT STANDARDS AND SPECIFICATIONS SECTIONS 107, 207, AND 611, AND AS DIRECTED BY NPS.

THE FOLLOWING DDOT WARD ARBORISTS SHALL BE INCLUDED AS POINTS OF CONTACT:

- WARD 1 JANET MILLER 202-557-4646
- WARD 2 SIMOLIN BANUA 202-557-4590
- WARD 3 VERA (MUNEVVER) ERTEM 202-507-3422
- WARD 4 ROBERT CORLETTA 202-527-4011

LANDSCAPING

ALL DISTURBED AREAS, INCLUDING PAVEMENT REMOVALS, SHALL BE PERMANENTLY STABILIZED WITH TOPSOIL (6 INCHES) AND APPROPRIATE PLANTINGS (TREES, SHRUBS, PERENNIALS, GROUND COVER, TURF GRASS, ETC) THAT IS REFLECTIVE OF THE SURROUNDING LANDSCAPE CONDITIONS.

PLANTINGS SHALL BE USED TO SCREEN OUTFALL STABILIZATION I.E. RIP-RAP PADS.

SLOPE STABILIZATION

DURING 30% DESIGN, STATION LIMITS WERE DEFINED FOR SLOPE REPAIRS. HOWEVER, A GEOTECHNICAL INVESTIGATION AND RECOMMENDATIONS SHOULD BE PREPARED FOR THESE REPAIRS. RECOMMENDATIONS SHOULD ALSO INCLUDE ALTERNATIVE METHODS SUCH AS GEOTEXTILE REINFORCEMENT, LIVE STAKES, TIE-BACK WALLS, ETC. THE SCOPE OF WORK SHOULD INCLUDE COORDINATION WITH THE US ARMY CORE OF ENGINEERS FOR PERMIT APPROVAL OF WORK WITHIN ROCK CREEK.

STRUCTURES, H&H, SCOUR ANALYSIS

THE PEDESTRIAN STRUCTURE OVER ROCK CREEK WAS DESIGNED BASED ON THE ENVIRONMENTAL ASSESSMENT INTENT TO MATCH THE TYPE AND PROFILE OF THE EXISTING BEACH DRIVE ROADWAY STRUCTURE. DURING THE NEXT PHASE OF DESIGN, REFER TO HYDROLOGY, HYDRAULICS, AND BRIDGE SCOUR ANALYSIS 30% COMPUTATION REPORT, DATED JULY, 2013. THE VERTICAL ALIGNMENT SHALL BE RE-EVALUATED BASED ON 10-YEAR FLOOD ELEVATION PROVIDED IN THE H&H REPORT.

NEXT DESIGN PHASE (CONT.)

STRUCTURES, H&H, SCOUR ANALYSIS (CONT.)

POTENTIAL RETAINING WALL LOCATIONS ARE DEPICTED IN THESE PLANS. THE RETAINING WALL SCOPE OF WORK FOR THE NEXT DESIGN PHASE SHALL BEGIN WITH TYPE, SIZE, LOCATION PLANS FOR THESE WALLS.

STORM WATER MANAGEMENT

THIS PROJECT WILL CREATE A NET INCREASE IN IMPERVIOUS AREA OF APPROXIMATELY 2.4 ACRES. DURING THE NEXT PHASE AN EARLY COORDINATION MEETING BETWEEN DDOT, NPS, AND DDOE SHOULD BE ARRANGED TO DETERMINE HOW STORM WATER IN THE PARK WILL BE REGULATED. CONCEPTS SHOWN IN THESE PLANS ARE BASED ON LOCATIONS PROVIDED IN THE ROCK CREEK WATERSHED IMPLEMENTATION PLAN.

RIGHT OF WAY

PARK BOUNDARIES SHOWN IN THESE PLANS WERE PROVIDED FROM THE DC-OCTO GIS DATABASE. AS PART OF THE NEXT DESIGN PHASE, PLAT RESEARCH SHALL BE PERFORMED TO VERIFY PARK BOUNDARIES, SPECIFICALLY ADJACENT TO THE FOLLOWING LOCATIONS:

- ROSE PARK
- NATIONAL ZOO

SEQUENCE OF CONSTRUCTION

THE SEQUENCE OF CONSTRUCTION SHALL BE DEVELOPED PRIOR TO DEVELOPMENT OF EROSION & SEDIMENT CONTROL PLANS AND TRAFFIC CONTROL PLANS.

EROSION AND SEDIMENT CONTROL

THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE COORDINATED DIRECTLY WITH THE SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.

DURING CONSTRUCTION, ALL DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED WITH SEEDING AND MULCH.

TRAFFIC CONTROL

THE TRAFFIC CONTROL PLAN SHALL BE DIRECTLY COORDINATED WITH THE SEQUENCE OF CONSTRUCTION AND EROSION & SEDIMENT CONTROL PLAN.

POTENTIAL STAGING AREAS ARE PROVIDED IN THIS PLAN SET.

THE TRAFFIC CONTROL PLANS SHALL UTILIZE STANDARD DETAILS TO THE EXTENT POSSIBLE FOR WORK ADJACENT TO BEACH DRIVE NW, ROCK CREEK AND POTOMAC PARKWAY NW, AND PINEY BRANCH PARKWAY NW.

AT A MINIMUM, SITE-SPECIFIC TRAFFIC CONTROL PLANS SHALL BE DEVELOPED FOR THE FOLLOWING LOCATIONS:

- BEACH DRIVE NW @ BLAGDEN AVE NW
- BEACH DRIVE @ ZOO ENTRANCE / HARVARD STREET CONNECTION
- BEACH DRIVE @ PEDESTRIAN STRUCTURE
- SHOREHAM DRIVE NW
- P STREET NW RAMP

THE TRAFFIC CONTROL PLANS SHALL INCLUDE SPECIAL DETAILS FOR TRAIL WORK ZONES AND CLOSURES.

WHERE IT IS FEASIBLE TO DETOUR TRAIL USERS ALONG OTHER ACCESSIBLE ROUTES WITHIN THE PARK, DETOUR PLANS SHALL BE PROVIDED.

MATERIAL SPECIFICATIONS

MATERIAL SPECIFICATIONS SHALL BE DEVELOPED FOR CONSTRUCTION MATERIALS, INCLUDING BUT NOT LIMITED TO:

- FILL
- TOPSOIL
- SEED
- TREES, SHRUBS, AND OTHER PLANTINGS
- RIP-RAP
- RETAINING WALL FACADES
- SEALANTS & PAINTS
- DETECTABLE WARNING SURFACE
- CONCRETE PRODUCTS

QUARRIED PRODUCT SHALL BE CHOSEN BASED ON SAMPLES PROVIDED BY THE NATIONAL PARK SERVICE. CONTACT MIKE RENZI AT VULCAN QUARRIES (WARRENTON, VA) FOR MORE PRODUCT INFORMATION AND TO ARRANGE A VISIT FOR PRODUCT SELECTION.

PLEASE NOTE THE FOLLOWING SPECIFIC NPS REQUIREMENTS:

- WOODEN FENCING SHALL BE COATED WITH CLEAR SEALANTS BUT NO PAINT SHALL BE APPLIED.
- DETECTABLE WARNING SURFACE SHALL BE A CONTRASTING COLOR SUCH AS TERRA COTTA, BRIGHT YELLOWS OR SHALL NOT BE USED.
- VISIBLE CONCRETE PRODUCTS, I.E. CULVERT END SECTIONS, SHALL BE DYED USING DARK EARTH TONES.

ALL MATERIAL SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY NPS.

WORK PROPOSED BY OTHERS

FHWA-EFL AND NPS ARE CURRENTLY PROGRESSING DESIGN FOR FHWA PROJECT NO. PRA-ROCR 10(5), RECONSTRUCTION AND REHABILITATION BEACH DRIVE FROM CONNECTICUT AVE TO THE PARK SERVICE BOUNDARY AT THE MARYLAND STATE LINE. THE LIMITS OF THIS PROJECT ARE NOTED ON THE PLANS. COORDINATION BETWEEN FHWA-EFL, NPS, AND DDOT IS ON-GOING.

DATE: 09-13-2013	SCALE: N.T.S.	GN-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
GENERAL NOTES		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 003 OF 124



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		004	124

	EXISTING STORM, SANITARY, OR COMBINED SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING ELECTRIC MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING MANHOLE UNKNOWN
	EXISTING WATER MANHOLE
	EXISTING SANITARY SEWER CLEANOUT
	EXISTING WATER METER
	EXISTING WATER VALVE OR CUT-OFF
	EXISTING WATER TEE
	EXISTING GAS VALVE OR CUT-OFF
	PROPOSED SANITARY SEWER, STORM DRAIN, WATER MANHOLE
	PROPOSED CLEANOUT
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE, GATE VALVE
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE LESS THAN 24"
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE 24" OR GREATER
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE
	EXISTING UNDERGROUND WATER (RECORD)
	EXISTING UNDERGROUND GAS (RECORD)
	EXISTING UNDERGROUND ELECTRIC (RECORD)
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE TO BE ABANDONED
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE TO BE ABANDONED
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE TO BE REMOVED
	EXISTING UNDERDRAIN
	PROPOSED STORM DRAIN LINE WITH DIRECTION OF FLOW, LESS THAN 24"
	PROPOSED STORM DRAIN LINE WITH DIRECTION OF FLOW, 24" OR GREATER
	PROPOSED UNDERDRAIN W/ FLOW DIRECTION
	EXISTING HEDGEROW
	EXISTING DECIDUOUS TREE, EVERGREEN TREE
	EXISTING TREE STUMP
	EXISTING TREE TO BE REMOVED
	EXISTING TREE WITH TREE PROTECTION
	PROPOSED TREE
	EXISTING WALL OR COPING
	PROPOSED WALL OR COPING
	EXISTING ELECTRIC VAULT
	EXISTING LIGHT POLE
	PROPOSED LIGHT POLE
	EXISTING SIGNAL POLE
	EXISTING TRAFFIC SIGNAL CONTROL CABINET
	PROPOSED SIGNAL POLE
	EXISTING BOLLARD OR POST
	PROPOSED BOLLARD OR POST
	PROPOSED TRAFFIC FLOW
	EXISTING TRAFFIC FLOW

	LIMIT OF DISTURBANCE
	NATIONAL PARK BOUNDARY
	100-YEAR FLOOD PLAIN (FEMA)
	LIMIT OF SURVEY
	PROPOSED CENTER LINE
	PROPOSED BASE LINE & STATIONING
	LIMIT OF CUT
	LIMIT OF FILL
	RIGHT-OF-WAY LINE
	BUILDING RESTRICTION LINE
	TOP OF BANK
	TOE OF BANK
	LOT LINE
	PROPOSED FENCE (Indicate Type)
	EXISTING FENCE (Indicate Type)
	WOODEN FENCE (Indicate type)
	EXISTING SPOT ELEVATION (AND/OR FEATURE)
	PROPOSED SPOT ELEVATION (AND/OR FEATURE)
	BENCH MARK WITH NUMBER
	TRIANGULATION OR COORDINATION STATION
	LOCATION OF SOIL BORING WITH NUMBER
	LOCATION OF TEST PIT WITH NUMBER
	TRIANGULATION OR CONTROL POINT
	REVISION WITH NUMBER
	BREAK IN GRADE
	STATION EQUATION
	EXISTING PARKING METER
	EXISTING FIRE ALARM BOX
	EXISTING POLICE CALL BOX
	EXISTING TRASH/WASTE CAN
	EXISTING GUY WIRE ANCHOR
	EXISTING SIGN & POST
	PROPOSED SIGN & POST
	MAIL BOX
	EXISTING WHEELCHAIR/BICYCLE RAMP
	PROPOSED WHEELCHAIR/BICYCLE RAMP
	EXISTING SINGLE CATCH BASIN
	EXISTING DOUBLE CATCH BASIN
	EXISTING TRIPLE CATCH BASIN
	EXISTING SINGLE CATCH BASIN WITH DOUBLE THROAT ELONGATION
	EXISTING SINGLE CATCH BASIN WITH TRIPLE THROAT ELONGATION
	EXISTING SINGLE CATCH BASIN WITH GRATE
	EXISTING DOUBLE CATCH BASIN WITH GRATE
	PROPOSED SINGLE CATCH BASIN
	PROPOSED DOUBLE CATCH BASIN
	PROPOSED TRIPLE CATCH BASIN
	PROPOSED SINGLE CATCH BASIN WITH GRATE
	PROPOSED DOUBLE CATCH BASIN WITH GRATE
	PROPOSED SINGLE THROAT WATER QUALITY BASIN
	PROPOSED DUAL THROAT WATER QUALITY BASIN
	PROPOSED DUAL THROAT WATER QUALITY BASIN W/ GRATE

ABUT. AC /A.C. ALT. ANG./- APPROX. @ AGG. AVE. ASPH	ABUTMENT ASPHALTIC CONCRETE ALTERNATE ANGLE APPROXIMATE AT AGGREGATE AVENUE ASPHALT	MAT'L. MED. MIN. MAX. MH./M.H. M.P.H./MPH MUTCD	MATERIAL MEDIAN MINIMUM MAXIMUM MANHOLE MILES PER HOUR MANUAL OR UNIFORM TRAFFIC CONTROL DEVICES
R B.C. BOSW BOT. BRG./BRGS.	BASELINE BOTTOM OF CURB BACK OF SIDEWALK BOTTOM BEARING /BEARINGS	NA N.B.L. N.E./NE N.F. N.I.C. NO./# N.T.S. N.W./NW	NOT APPLICABLE NORTH BOUND LANES NORTHEAST NEAR FACE NOT IN CONTRACT NUMBER NOT TO SCALE, NO SCALE NORTHWEST
C.B./CB CC CI C.J./CONST. JT. CLR. CL C	CATCH BASIN CENTER TO CENTER CAST IRON CONSTRUCTION JOINT CLEARANCE, CLEAR COVER CLASS CENTERLINE COLUMN COMPRESSION CONCRETE CONSTRUCTION CONTINUOUS CONTROL, CONTRACTION CURVE TO SPIRAL	OH O.C. O.D.	OVERHEAD ON CENTER OVERDRAIN
D DIA./Ø DIAPH. DIM.	DEGREE OF CURVATURE DIAMETER DIAPHRAGM DIMENSION	R PC P.C.C. PC PCC PCCP PFE PFL PGE PGL PLA PI POC POT PR PRC PROP. PT PTCE PTCL PVC PVC PVT PVI	PLATE POINT OF CROWN POINT OF COMPOUND CURVATURE POINT OF CURVE PORTLAND CEMENT CONCRETE PORTLAND CEMENT CONCRETE PIPE PROPOSED FLOW ELEVATION PROPOSED FLOWLINE PROFILE GRADE ELEVATION PROFILE GRADE LINE PLASTIC POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF RETURN POINT OF REVERSE CURVATURE PROPOSED POINT OF TANGENCY PROPOSED TOP OF CURB ELEVATION PROPOSED TOP OF CURB LINE POLYVINYL CHLORIDE POINT OF VERTICAL CURVATURE POINT OF VERTICAL TANGENCY POINT OF VERTICAL INTERSECTION
E.F. EA. EFE EFL EGE EGL E.J./EXP. JT. EL./ELEV. ELECT. ENT. EP EQ. ETCE ETCL EX./EXIST. EXP. EXT.	EACH FACE EACH EXISTING FLOW ELEVATION EXISTING FLOWLINE EXISTING GROUND ELEVATION EXISTING GROUND LINE EXPANSION JOINT ELEVATION ELECTRICAL ENTRANCE EDGE OF PAVEMENT EQUAL EXISTING TOP OF CURB ELEVATION EXISTING TOP OF CURB LINE EXISTING EXPANSION EXTERIOR	RAD/R REQD./REQ'D. REF. REINF. RT/RT. RDWY. R.O.W./RW	REINFORCED CONCRETE PIPE REINFORCED CONCRETE PIPE WITH RUBBER GASKET RADIUS REQUIRED REFERENCE REINFORCEMENT RIGHT ROADWAY RIGHT-OF-WAY
F.F. F.H. FT. FIN. FX FL	FAR FACE FIRE HYDRANT FEET FINISHED FIXED FLOW /FLOWLINE	SAN. S.B.L. S.C. S.D. SECT. S.E. SEW. SHT/SHTS. SIM. SL SPA. SQ. SHLDR S.T. ST. STA. STD. STD 4W STM. STRUCT. S S.W./SW SW SYMM.	SANITARY SOUTH BOUND LANES SPIRAL TO CURVE STORM DRAIN SECTION SOUTHEAST SEWER SHEET/SHEETS SIMILAR STREET LIGHT SPACES, SPACING SQUARE/SQUARES SHOULDER SPIRAL TO TANGENT STREET STATION STANDARD STANDARD 4-WAY ELECTRICAL DUCT BANK STORM STRUCTURAL SURVEY LINE SOUTHWEST SIDEWALK SYMMETRICAL
GALV. GA. G.V.	GALVANIZED GAUGE GAS VALVE		
H2W H6W HC H.S. HT. HORIZHOR	HORIZONTAL 2-WAY ELECTRICAL DUCT BANK HORIZONTAL 8-WAY ELECTRICAL DUCT BANK HANDICAPPED HIGH STRENGTH HEIGHT HORIZONTAL		
IN. INT. INV. INTERM.	INCH INTERIOR INVERT INTERMEDIATE		
L3 LC LGN LOD LP LP LT./LT. LONG. LVC	LEVEL 3 COMMUNICATIONS LENGTH OF CURVE, LENGTH LOOKING GLASS NETWORKS LIMIT OF DISTURBANCE LIGHT POLE LOW PRESSURE LEFT LONGITUDINAL LENGTH OF VERTICAL CURVE		

T T.C./TOC TCP TEMP. THRU T.P. T.S. TS TYP./TYP T.W.	TANGENT TOP OF CURB TRAFFIC CONTROL PLAN TEMPORARY THROUGH TURNING POINT TANGENT TO SPIRAL TRAFFIC SIGNAL TYPICAL TOP OF WALL
U.D. UG/UG UGE UGT U.N.O.	UNDERDRAIN UNDERGROUND UNDERGROUND ELECTRICAL LINE UNDERGROUND TELEPHONE LINE UNLESS NOTED OTHERWISE
V2W V8W VAR. VERT. VZN	VERTICAL 2-WAY ELECTRICAL DUCT BANK VERTICAL 8-WAY ELECTRICAL DUCT BANK VARIES VERTICAL VERTIZON
WRPD W WO W.W.F./WWF	WRAPPED STEEL WITH WITHOUT WELDED WIRE FABRIC

Thursday, September 12, 2013 AT 03:29 PM
us:\2026031049\012 Rock Creek Park Trail\Trans\cadd\sheet_files\pGN-N002_r.ctb.dgn

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: N.T.S.	GN-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
STANDARD SYMBOLS AND ABBREVIATIONS		DIVISION CHIEF _____
		DATE _____
		FILE _____
		SHEET 004 OF 124

ITEM NO.	ALT CODE	QUANTITY	UNIT	DESCRIPTION	SUPPLEMENTAL DESCRIPTION
PAVEMENT REHABILITATION					
OPTION 1 - RESURFACE/WIDEN					
209002	#REF!		CY	AGGREGATE BASE COURSE	FOR WIDENING
202002	#REF!		CY	COMMON EXCAVATION	FOR WIDENING
402XXX	#REF!		TON	SUPERPAVE SURFACE COURSE, 12.5 MM	
403002	#REF!		SY	TACK COAT	
606002	#REF!		SY	PAVEMENT PROFILING (MILLING)	MILLING 1.5" TO 3" ASPHALT SURFACE
OPTION 2 - RECLAMATION/WIDEN					
209XXX	#REF!		SY	RECLAIMED BASE COURSE	
209002	870		CY	AGGREGATE BASE COURSE	SUPPLEMENTAL AGGREGATE, 25% OF BASE
402XXX	#REF!		TON	SUPERPAVE SURFACE COURSE, 12.5 MM	
403002	#REF!		SY	TACK COAT	
TRAIL IMPROVEMENTS					
202002		5,150	CY	COMMON EXCAVATION	
202004	#REF!		CY	HARD SURFACE PAVEMENT EXCAVATION	EXISTING PAVEMENT REMOVAL - 7.5" DEPTH
204002		2,350	CY	EMBANKMENT FILL	SALVAGED MATERIAL (25% OF COMMON EXCAVATION)
204004		1,450	CY	BORROW EMBANKMENT FILL	FURNISHED MATERIAL FROM OFF-SITE
204991		900	CY	EMBANKMENT FILL SPECIAL ITEM - LF	MECHANICALLY PLACED ROCK EMBANKMENT, E252-01
204991		500	CY	EMBANKMENT FILL SPECIAL ITEM - LF	RIP-RAP REVETMENT
209002	#REF!		CY	AGGREGATE BASE COURSE	FOR NEW TRAIL CONSTRUCTION
402XXX	#REF!		TON	SUPERPAVE SURFACE COURSE, 12.5 MM	FOR NEW TRAIL CONSTRUCTION
403002	#REF!		SY	TACK COAT	FOR NEW TRAIL CONSTRUCTION
600009	#REF!	3,180	LF	INCIDENTAL CONSTRUCTION SPECIAL ITEM - LF -	TIMBER EDGE SUPPORT
602008		3	CY	PCC STEPS	AT HARVARD STREET CONNECTION
605991		3	EACH	STEEL GUIDERAILS SPECIAL ITEM - EACH	ET 617-61, TIMBER GUIDERAIL END SECTION (30' EACH)
605995		264	LF	MISC. GUIDERAILS SPECIAL ITEM - LF -	617-60, TIMBER GUIDERAIL
607991		292	LF	MISC. FENCING SPECIAL ITEM - LF -	HANDRAIL AT HARVARD ST
607991		46	LF	MISC. FENCING SPECIAL ITEM - LF -	E 619-09, CHAIN LINK FENCE
607991		4,552	LF	MISC. FENCING SPECIAL ITEM - LF -	42" POST-AND-RAIL SAFETY FENCE
608991		630	SY	SIDEWALKS & DRIVEWAY SPECIAL ITEM - SY -	E615-01, CONCRETE SIDEWALK
609072		20	LF	FURNISH AND SET 8"x12" GRANITE CIRCULAR CURB, RADIUS 10-100FT.	
609200		25	EACH	PCC WHEELCHAIR/BICYCLE RAMP - NEW CONSTRUCTION	
609500		20	LF	BRICK GUTTER	
609993		1,650	LF	CURB, GUTTER, & PAVED FLUME SPECIAL ITEM - LF -	E 609-01, CONCRETE CURB AND GUTTER
612002		1	LS	MOBILIZATION	5% OF CONSTRUCTION COST
MAINTENANCE OF TRAFFIC					
616001		1	LS	MAINTENANCE OF HIGHWAY TRAFFIC	FOR TRAIL WORK ADJACENT TO ROADWAY
616991		1	LS	TRAFFIC CONTROL SPECIAL ITEM - LS -	PEDESTRIAN/CYCLIST TRAFFIC CONTROL
SIGNING AND MARKING					
616994		2,500	LF	TRAFFIC CONTROL SPECIAL ITEM - LF -	STRIPING - ANY TYPE
620994		1,000	SF	TRAFFIC SIGNING SPECIAL ITEM - SF -	WARNING/GUIDE SIGNAGE
DRAINAGE IMPROVEMENTS					
300XXX		14	EA	STONE MASONRY HEADWALL	
300XXX		8	EA	END SECTION (ELLIPTICAL OR ROUND)	
300XXX		222	SY	RIP-RAP FOR OUTFALL/CHANNEL PROTECTION	E251-01, E251-02 LOOSE RIP-RAP
309002		20	VLF	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIA.	
310002		1	EA	STANDARD BASIN	
310992		3	EA	CATCH BASINS SPECIAL ITEM - EACH -	E604-04, INLET TYPE 5B
314XXX		645	LF	REINFORCED CONCRETE PIPE FOR CULVERT (ELLIPTICAL OR ROUND)	
610014		120	SY	EROSION CONTROL MATTING	E629-03, PIPE INLET STABILIZATION
609993		3	EA	CURB, GUTTER, & PAVED FLUME SPECIAL ITEM - LF -	DDOT STD. DWG. 609.11, CURB OPENING FOR COMBINATION CURB & GUTTER
STORMWATER MANAGEMENT IMPROVEMENTS					
300XXX		1	LS	LID SITE 130 / ARKANSAS AVENUE NW & PINEY BRANCH PARKWAY	AS PER ROCK CREEK WATERSHED IMPLEMENTATION PLAN
300XXX		1	LS	LID SITE 354 / PORTER STREET NW & KLINGLE ROAD NW	AS PER ROCK CREEK WATERSHED IMPLEMENTATION PLAN
EROSION AND SEDIMENT CONTROL					
628XXX		32,000	LF	SILT FENCE	50% LOD LENGTH X 1.15 FOR STOCKPILE PROTECTION
628XXX		13,900	LF	WATER DIVERSION FENCE	25% LOD LENGTH
628XXX		200	TON	STABILIZED CONSTRUCTION ENTRANCE	10@20 TON EACH
628XXX		1,670	LB	TEMPORARY SEEDING	0.03 X SY OF DISTURBANCE
628XXX		64,000	SY	TEMPORARY MULCHING	1.15 X SY OF DISTURBANCE
628XXX		50	TON	STONE OUTLET STRUCTURE / STONE CHECK DAM	
UTILITY RELOCATIONS					
42" COMBINED SEWER RELOCATION					
309992		10	VLF	SEWER MANHOLE SPECIAL ITEM - VLF -	DC WATER STANDARD DETAIL S-20.03 PRECAST CONCRETE MANHOLE FOR NEW 33" THRU 48" DIAMETER SEWERS
309992		20	VLF	SEWER MANHOLE SPECIAL ITEM - VLF -	DC WATER STANDARD DETAIL S-22.13 CAST IN PLACE CONCRETE MANHOLE BASE ON EXISTING 3-FOOT AND 4-FOOT DIAMETER CONCRETE MASONRY SEWERS
314020		82	LF	PCC PIPE, CLASS III, GASKET, 42 INCH	

ITEM NO.	ALT CODE	QUANTITY	UNIT	DESCRIPTION	SUPPLEMENTAL DESCRIPTION
STRUCTURAL IMPROVEMENTS					
BEACH DRIVE NW PEDESTRIAN STRUCTURE					
700XXX		1,090	CY	CLASS III EXCAVATION	
700XXX		730	SF	TEMPORARY SHEET PILING	
700XXX		1	LS	TEMPORARY INTERMEDIATE SUPPORT SYSTEM	
700XXX		360	CY	SUBSTRUCTURE CONCRETE FOR BRIDGE	
700XXX		8	CY	TIE-IN WALLS BETWEEN BRIDGES	
700XXX		220	LF	PRECAST CONCRETE CURVED U-BEAM (ARCH 90° TO 30°)	
700XXX		80	CY	REINFORCE CONCRETE DECK	
700XXX		8	EACH	POT BEARINGS	
700XXX		440	LF	STEEL TUBE 54" HIGH BRIDGE RAIL	
700XXX		570	CY	SELECT BACKFILL	
700XXX		30	SY	CLASS II RIPRAP	
EXISTING STRUCTURE MODIFICATIONS					
700XXX		1,680	SF	BEACH DRIVE NW STRUCTURE OVER ROCK CREEK AT BLAGDEN AVE NW - CONCRETE DECK MODS FOR ADA COMPLIANCE	
700XXX		975	SF	BLAGDEN AVE NW STRUCTURE OVER BROAD BRANCH AT BLAGDEN AVE - CONCRETE DECK MODS FOR ADA COMPLIANCE	
700XXX		200	SF	BEACH DRIVE NW STRUCTURE OVER PINEY BRANCH - CONCRETE DECK MODS FOR ADA COMPLIANCE	
700XXX		500	SF	PINEY BRANCH RETAINING WALL TEMPORARY REPAIR - SOLDIER PILE AND LAGGING	
LANDSCAPING					
201002		1	LS	CLEAR AND GRUB	
610XXX	#REF!		SY	PLACE 6" FURNISHED TOPSOIL	25% X (LOD AREA LESS PR. IMPERVIOUS AREA)
610XXX	#REF!		SY	PLACE 6" SALVAGED TOPSOIL	75% X (LOD AREA LESS PR. IMPERVIOUS AREA)
610991	#REF!		SY	TURF ESTABLISHMENT SPECIAL ITEM - SY -	100% X (LOD AREA LESS PR. IMPERVIOUS AREA)
611XXX		500	SY	BRUSH REMOVAL	FOR SIGHT DISTANCE IMPROVEMENTS
611XXX		100	EA	REMOVE TREE AND STUMP (OVER 6")	EXACT NUMBER TO BE DETERMINED
611XXX		2,300	LF	TREE ROOT PRUNING	PERFORMED 9 - 18 MONTHS AHEAD OF CONSTRUCTION
611XXX		100	EA	TREE TRIMMING	
611XXX		1	LS	TREE PROTECTION	METHODS TO BE DETERMINED
611XXX		13,450	SY	WOOD CHIP MULCHING IN CRZ	
611XXX		1	LS	TREE PLANTING	PLANTING AREAS TO BE DETERMINED
611XXX		4,000	SF	UD/SWM PLANTING	
611XXX		10	EA	MISCELLANEOUS AMENITIES	BENCHES, TRASH CANS, BIKE RACKS
ENGINEERING AND CONSTRUCTION SERVICES					
108002		1	LS	PROGRESS PHOTOGRAPHS	
108004		1	LS	AS-BUILT DRAWINGS	
624002		1	LS	ENGINEERS FIELD FACILITIES	
625002		1	LS	FIELD LAYOUT	1% - 2% CONSTRUCTION COST

NOT FOR CONSTRUCTION

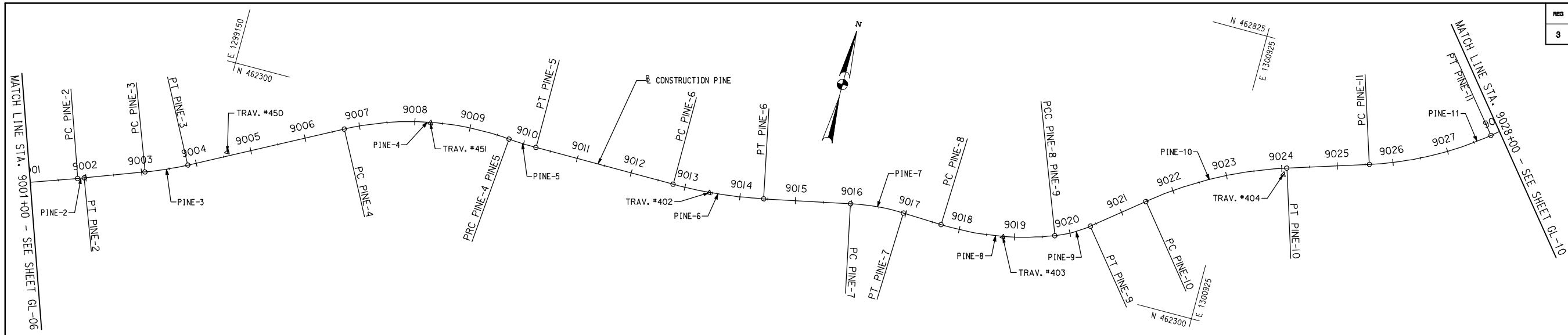


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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: N.T.S.	SQ-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
SUMMARY OF QUANTITIES		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 005 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		014	124



CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
PINE-2	PC	9001+85.0846	462,026.1869	1,298,929.9436	N 70° 35' 39.2335"
	PI	9001+91.0592	462,028.1720	1,298,935.5787	
	PT	9001+97.0334	462,030.2690	1,298,941.1732	N 69° 27' 11.5430"
	CC		462,592.1005	1,298,730.5899	
PINE-3	PC	9003+06.3781	462,068.6459	1,299,043.5621	N 69° 27' 11.5430"
	PI	9003+45.4486	462,082.3586	1,299,080.1471	
	PT	9003+84.4103	462,100.6703	1,299,114.6606	N 62° 03' 03.6800"
	CC		462,634.2230	1,298,831.5748	
PINE-4	PC	9006+72.3399	462,235.6186	1,299,369.0076	N 62° 03' 03.6800"
	PI	9008+26.6249	462,307.9297	1,299,505.2976	
	PRC	9009+72.4297	462,294.8483	1,299,659.0270	S 85° 08' 10.4313"
	CC		461,772.7352	1,299,614.5986	
PINE-5	PRC	9009+72.4297	462,294.8483	1,299,659.0270	S 85° 08' 10.4313"
	PI	9009+97.7618	462,292.7005	1,299,684.2678	
	PT	9010+23.0637	462,292.6879	1,299,709.5998	S 89° 58' 17.1075"
	CC		462,892.6878	1,299,709.8991	
PINE-6	PC	9012+77.8147	462,292.5608	1,299,964.3507	S 89° 58' 17.1075"
	PI	9013+60.6922	462,292.5195	1,300,047.2283	
	PT	9014+42.9806	462,309.4684	1,300,128.3542	N 78° 11' 58.0102"
	CC		463,092.5607	1,299,964.7498	
PINE-7	PC	9015+98.9587	462,341.3668	1,300,281.0358	N 78° 11' 58.0102"
	PI	9016+47.5051	462,351.2948	1,300,328.5562	
	PT	9016+95.5790	462,349.5673	1,300,377.0719	S 87° 57' 38.5780"
	CC		461,949.8206	1,300,362.8380	
PINE-8	PC	9017+66.2078	462,347.0540	1,300,447.6559	S 87° 57' 38.5780"
	PI	9018+70.8059	462,343.3319	1,300,552.1878	
	PCC	9019+72.5967	462,380.6840	1,300,649.8893	N 69° 04' 39.7291"
	CC		462,861.7278	1,300,465.9821	
PINE-9	PCC	9019+72.5967	462,380.6840	1,300,649.8893	N 69° 04' 39.7291"
	PI	9020+06.0553	462,392.6321	1,300,681.1418	
	PT	9020+38.9561	462,413.7008	1,300,707.1339	N 50° 58' 20.6457"
	CC		462,576.8378	1,300,574.8980	
PINE-10	PC	9021+47.7857	462,482.2302	1,300,791.6774	N 50° 58' 20.6457"
	PI	9022+79.9941	462,565.4811	1,300,894.3825	
	PT	9024+09.1240	462,605.5378	1,301,020.3766	N 72° 21' 47.6408"
	CC		461,938.4403	1,301,232.4637	
PINE-11	PC	9025+57.5316	462,650.5026	1,301,161.8086	N 72° 21' 47.6408"
	PI	9026+71.6309	462,685.0726	1,301,270.5448	
	PT	9027+83.0377	462,757.1419	1,301,359.0019	N 50° 49' 44.3836"
	CC		463,222.3005	1,300,980.0197	

CURVE DATA							
CURVE	DELTA	De	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD
PINE-2	1° 08' 27.6905"	LT	9° 32' 57.4677"	600.0000'	5.9746'	0.0297'	11.9486'
PINE-3	7° 24' 07.8629"	LT	9° 29' 09.8024"	604.0000'	39.0705'	1.2623'	77.9780'
PINE-4	32° 48' 45.8886"	RT	10° 56' 03.5126"	524.0000'	154.2849'	22.2416'	296.0057'
PINE-5	4° 50' 06.6762"	LT	9° 32' 57.4677"	600.0000'	25.3320'	0.5345'	50.6189'
PINE-6	11° 49' 44.8823"	LT	7° 09' 43.1008"	800.0000'	82.8775'	165.1659'	164.8727'
PINE-7	13° 50' 23.4118"	RT	14° 19' 26.2016"	400.0000'	48.5464'	96.6203'	2.9352'
PINE-8	22° 57' 41.6930"	LT	11° 07' 31.4187"	515.0000'	104.5981'	206.3889'	10.5148'
PINE-9	18° 06' 19.0834"	LT	27° 17' 01.3363"	210.0000'	33.4586'	66.3594'	2.6487'
PINE-10	21° 23' 26.9951"	RT	8° 11' 06.4009"	700.0000'	132.2084'	261.3383'	12.3756'
PINE-11	21° 32' 03.2573"	LT	9° 32' 57.4677"	600.0000'	114.0993'	225.5060'	10.7525'

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
450	462141.2323	1299177.0258	61.301
451	462286.1067	1299515.6030	66.629
402	462294.6122	1300030.9156	76.230
403	462354.5687	1300560.3126	86.145
404	462592.3339	1301017.3078	93.425

Thursday, September 12, 2013 AT 03:30 PM
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100' 0 100' 200'

HORIZONTAL SCALE: 1" = 100'



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

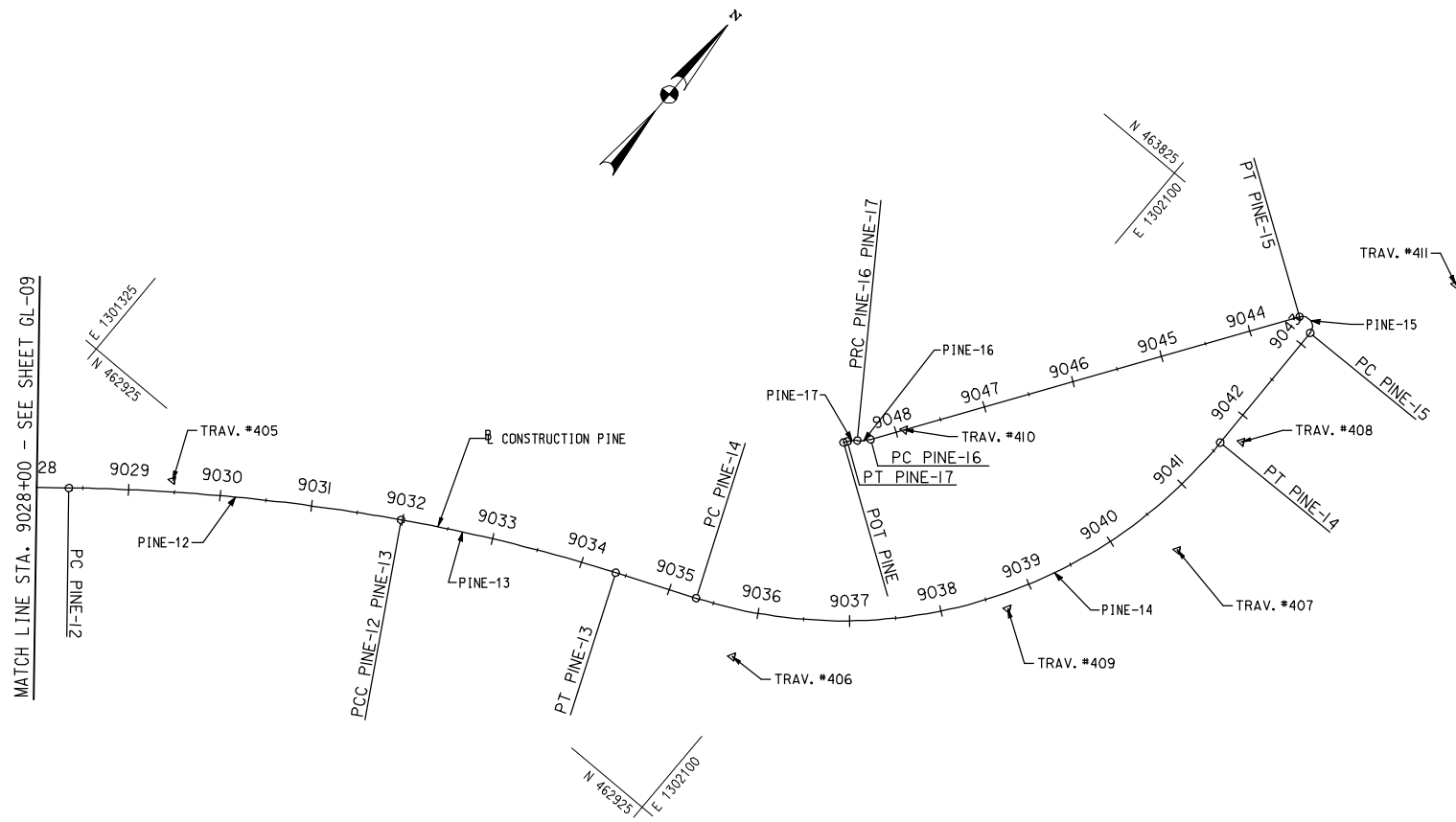
D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: 1" = 100'	GL-09
GEOMETRIC LAYOUT SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 014 OF 124

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
405	462869.0108	1301480.4786	103.330
406	463113.0331	1302069.8369	109.960
409	463345.4949	1302265.7595	121.169
407	463512.8882	1302366.1489	134.323
408	463647.9999	1302343.7174	137.347
411	463928.6324	1302411.8044	139.118
410	463422.2645	1302054.4184	153.340



CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD.
PINE-12	9° 18' 34.7137" RT	2° 33' 48.8504"	2,235.0000'	181.9763'	363.1516'	7.3961'	362.7522'
PINE-13	7° 25' 39.0885" RT	3° 05' 13.4055"	1,856.0000'	120.4698'	240.6021'	3.9056'	240.4337'
PINE-14	68° 13' 21.8039" LT	10° 48' 37.8880"	530.0000'	358.9903'	631.0769'	110.1359'	594.4514'
PINE-15	145° 18' 06.1724" LT	52° 52' 14.6022"	11.0000'	35.2105'	27.8959'	25.8888'	20.9991'
PINE-16	21° 36' 28.0072" RT	150° 46' 42.1217"	38.0000'	7.2516'	14.3308'	0.6857'	14.2460'
PINE-17	21° 36' 28.0080" LT	190° 59' 09.3599"	30.0000'	5.7249'	11.3138'	0.5414'	11.2469'

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
PINE-12	PC	9028+35.0881	462,790.0189	1,301,399.3547	N 50° 49' 44.3836"
	PI	9030+17.0644	462,904.9619	1,301,540.4345	
	PCC	9031+98.2396	462,995.5684	1,301,698.2503	N 60° 08' 19.0973"
	CC		461,057.3033	1,302,811.0635	
PINE-13	PCC	9031+98.2396	462,995.5684	1,301,698.2503	N 60° 08' 19.0973"
	PI	9033+18.7095	463,055.5507	1,301,802.7256	
	PT	9034+38.8418	463,101.5240	1,301,914.0784	N 67° 33' 58.1859"
	CC		461,385.9845	1,302,622.3583	
PINE-14	PC	9035+30.4994	463,136.5020	1,301,998.7995	N 67° 33' 58.1859"
	PI	9038+89.4897	463,273.4986	1,302,330.6217	
	PT	9041+61.5763	463,632.4653	1,302,326.5080	N 0° 39' 23.6181" W
	CC		463,626.3921	1,301,796.5428	
PINE-15	PC	9043+15.8001	463,786.6789	1,302,324.7408	N 0° 39' 23.6181" W
	PI	9043+51.0106	463,821.8872	1,302,324.3373	
	PT	9043+43.6960	463,792.7106	1,302,304.6266	S 34° 02' 30.2095"
	CC		463,786.5529	1,302,313.7415	
PINE-16	PC	9048+28.9180	463,390.6411	1,302,033.0010	S 34° 02' 30.2095"
	PI	9048+36.1696	463,384.6322	1,302,028.9416	
	PRC	9048+43.2489	463,380.5405	1,302,022.9547	S 55° 38' 58.2168"
	CC		463,411.9133	1,302,001.5130	
PINE-17	PRC	9048+43.2489	463,380.5405	1,302,022.9547	S 55° 38' 58.2168"
	PI	9048+48.9738	463,377.3102	1,302,018.2282	
	PT	9048+54.5627	463,372.5663	1,302,015.0234	S 34° 02' 30.2087"
	CC		463,355.7724	1,302,039.8823	
-	POT	9048+58.5648	463,369.2500	1,302,012.7830	

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100' 0 100' 200'
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 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

SCALE: 1" = 100'

GL-10

GEOMETRIC LAYOUT SHEET

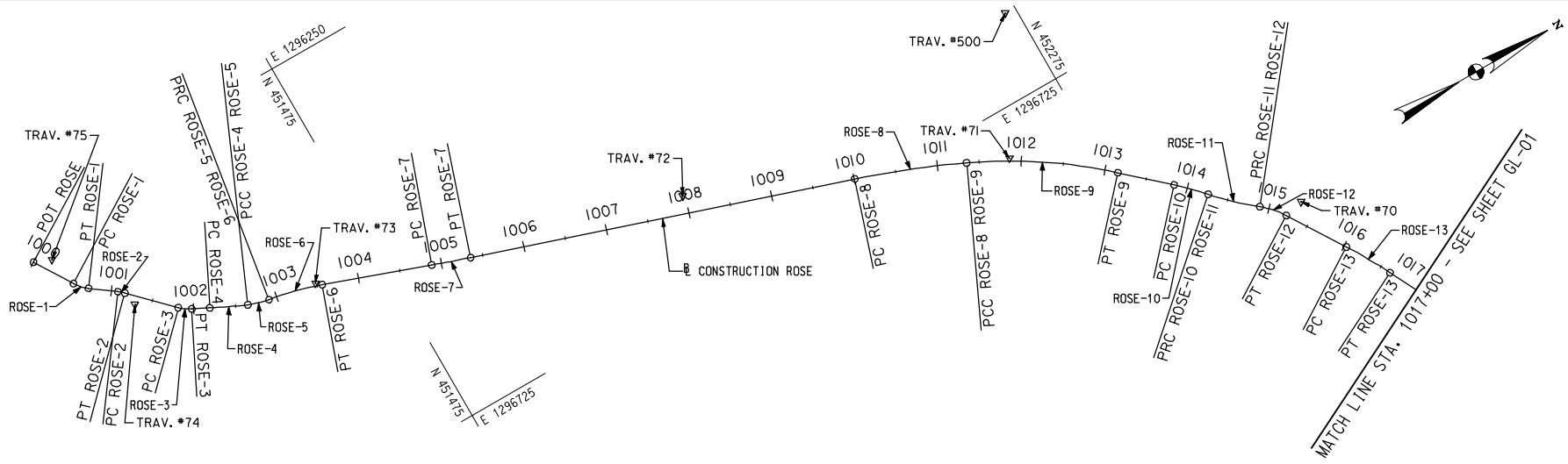
DIVISION CHIEF

DATE _____

FILE _____

SHEET 015 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		016	124



CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
-	POT	1000+00.0000	451,115.360	1,296,307.607	N 58° 08' 41.59" E
ROSE-1	PC	1000+53.7527	451,143.5052	1,296,352.8174	N 58° 08' 41.5885"
	PI	1000+63.3030	451,148.5456	1,296,360.9293	
	PT	1000+72.6260	451,156.2209	1,296,366.6124	N 36° 31' 03.6758"
	CC		451,185.9745	1,296,326.4288	
ROSE-2	PC	1001+07.5745	451,184.3082	1,296,387.4093	N 36° 31' 03.6758"
	PI	1001+11.8340	451,187.7314	1,296,389.9440	
	PT	1001+16.0771	451,190.7319	1,296,392.9673	N 45° 13' 01.2635"
	CC		451,150.9842	1,296,432.4150	
ROSE-3	PC	1001+81.8319	451,237.0511	1,296,439.6387	N 45° 13' 01.2635"
	PI	1001+89.9882	451,242.7966	1,296,445.4279	
	PT	1001+98.0021	451,250.0840	1,296,449.0911	N 26° 41' 14.2465"
	CC		451,272.5401	1,296,404.4175	
ROSE-4	PC	1002+19.2861	451,269.1006	1,296,458.6501	N 26° 41' 14.2465"
	PI	1002+42.0650	451,289.4529	1,296,468.8806	
	PCC	1002+64.8342	451,310.2967	1,296,478.0685	N 23° 47' 15.3878"
	CC		451,673.3094	1,295,654.5262	
ROSE-5	PCC	1002+64.8342	451,310.2967	1,296,478.0685	N 23° 47' 15.3878"
	PI	1002+77.7964	451,322.1578	1,296,483.2967	
	PRC	1002+90.6149	451,334.9598	1,296,485.3281	N 9° 00' 58.7864" E
	CC		451,350.6314	1,296,386.5638	
ROSE-6	PRC	1002+90.6149	451,334.9598	1,296,485.3281	N 9° 00' 58.7864" E
	PI	1003+23.5660	451,367.5038	1,296,490.4921	
	PT	1003+56.3234	451,398.5121	1,296,501.6392	N 19° 46' 22.6330"
	CC		451,280.1093	1,296,831.0034	
ROSE-7	PC	1004+88.4793	451,522.8761	1,296,546.3468	N 19° 46' 22.6330"
	PI	1005+11.9531	451,544.9660	1,296,554.2878	
	PT	1005+35.4248	451,567.2361	1,296,561.7082	N 18° 25' 41.0258"
	CC		452,199.4636	1,294,664.2656	
ROSE-8	PC	1010+00.9394	452,008.8797	1,296,708.8638	N 18° 25' 41.0258"
	PI	1010+68.0869	452,072.5839	1,296,730.0900	
	PCC	1011+35.0820	452,133.3849	1,296,758.5860	N 25° 06' 40.9473"
	CC		451,645.3489	1,297,799.8933	
ROSE-9	PCC	1011+35.0820	452,133.3849	1,296,758.5860	N 25° 06' 40.9473"
	PI	1012+26.0890	452,215.7904	1,296,797.2075	
	PT	1013+15.7191	452,283.0368	1,296,858.5279	N 42° 21' 39.4051"
	CC		451,878.7574	1,297,301.8767	
ROSE-10	PC	1013+83.9380	452,333.4447	1,296,904.4937	N 42° 21' 39.4051"
	PI	1014+04.9751	452,348.9893	1,296,918.6684	
	PRC	1014+25.9735	452,362.9613	1,296,934.3956	N 48° 22' 55.5290"
	CC		452,063.9251	1,297,200.0596	
ROSE-11	PRC	1014+25.9735	452,362.9613	1,296,934.3956	N 48° 22' 55.5290"
	PI	1014+57.5642	452,383.9426	1,296,958.0125	
	PRC	1014+89.0019	452,408.6238	1,296,977.7307	N 38° 37' 18.9259"
	CC		452,639.5698	1,296,688.6564	
ROSE-12	PRC	1014+89.0019	452,408.6238	1,296,977.7307	N 38° 37' 18.9259"
	PI	1015+05.8053	452,421.7520	1,296,988.2190	
	PT	1015+22.2977	452,430.7311	1,297,002.4221	N 57° 41' 56.3620"
	CC		452,346.2059	1,297,055.8588	
ROSE-13	PC	1016+02.7586	452,473.7268	1,297,070.4319	N 57° 41' 56.3620"
	PI	1016+32.8864	452,489.8261	1,297,095.8975	
	PT	1016+62.9637	452,503.2935	1,297,122.8477	N 63° 26' 53.3372"
	CC		451,966.5754	1,297,391.0522	

CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD.
ROSE-1	21° 37' 37.9127" LT	114° 35' 29.6125"	50.0000'	9.5503'	18.8733'	0.9039'	18.7614'
ROSE-2	8° 41' 57.5878" RT	102° 18' 50.0112"	56.0000'	4.2595'	8.5026'	0.1618'	8.4944'
ROSE-3	18° 31' 47.0171" LT	114° 35' 29.6125"	50.0000'	8.1563'	16.1702'	0.6609'	16.0999'
ROSE-4	2° 53' 58.8587" LT	6° 21' 58.3118"	900.0000'	22.7789'	45.5481'	0.2882'	45.5433'
ROSE-5	14° 46' 16.6013" LT	57° 17' 44.8059"	100.0000'	12.9622'	25.7807'	0.8366'	25.7094'
ROSE-6	10° 45' 23.8466" RT	16° 22' 12.8018"	350.0000'	32.9511'	65.7085'	1.5477'	65.6120'
ROSE-7	1° 20' 41.6072" LT	2° 51' 53.2403"	2,000.0000'	23.4739'	46.9455'	0.1378'	46.9445'
ROSE-8	6° 40' 59.9214" RT	4° 58' 56.0701"	1,150.0000'	67.1475'	134.1427'	1.9587'	134.0666'
ROSE-9	17° 14' 58.4579" RT	9° 32' 57.4677"	600.0000'	91.0070'	180.6371'	6.8626'	179.9557'
ROSE-10	6° 01' 16.1238" RT	14° 19' 26.2016"	400.0000'	21.0371'	42.0355'	0.5528'	42.0162'
ROSE-11	9° 45' 36.6031" LT	15° 29' 07.2450"	370.0000'	31.5906'	63.0284'	1.3462'	62.9522'
ROSE-12	19° 04' 37.4362" RT	57° 17' 44.8057"	100.0000'	16.8034'	33.2958'	1.4019'	33.1422'
ROSE-13	5° 44' 56.9751" RT	9° 32' 57.4677"	600.0000'	30.1278'	60.2051'	0.7559'	60.1798'

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
75	451135.4458	1296315.4423	42.650
74	451194.4311	1296410.6100	43.749
73	451392.2550	1296496.2618	47.170
72	451821.7318	1296624.2095	58.265
500	452261.9369	1296627.3924	63.069
71	452180.1092	1296779.3467	61.810
70	452454.0586	1296996.9351	65.721

Thursday, September 12, 2013 AT 03:30 PM
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100' 0 100' 200'

HORIZONTAL SCALE: 1" = 100'



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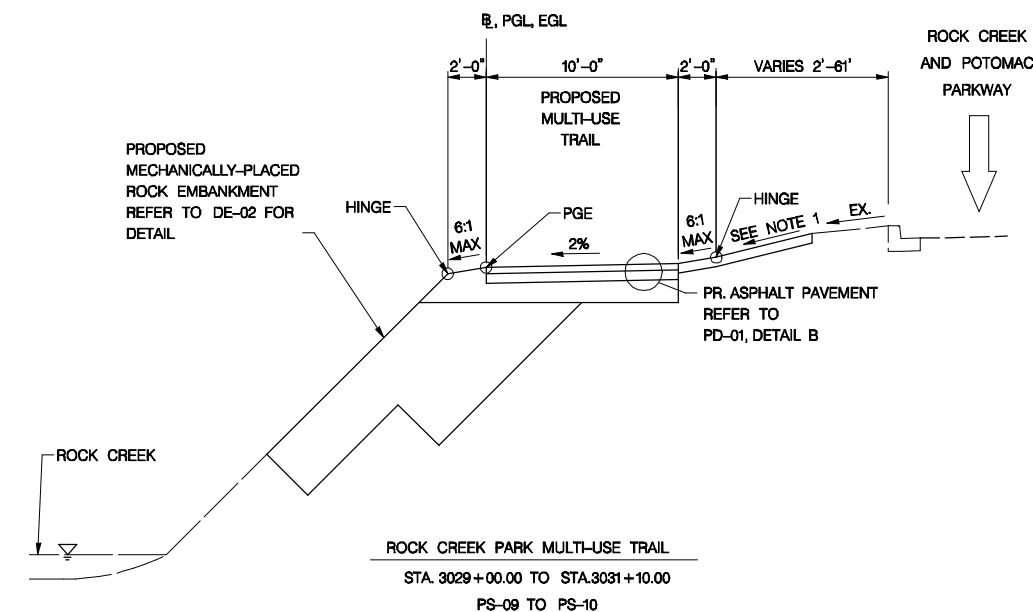
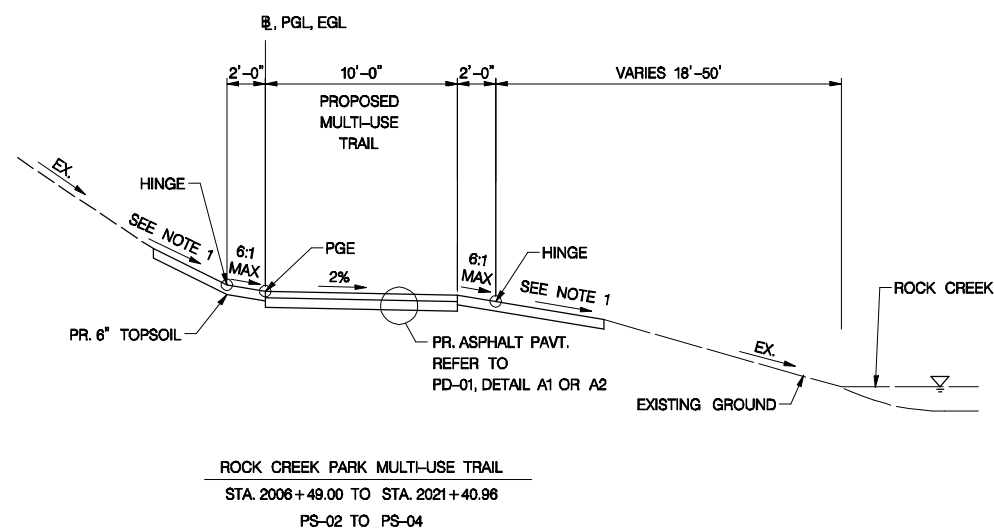
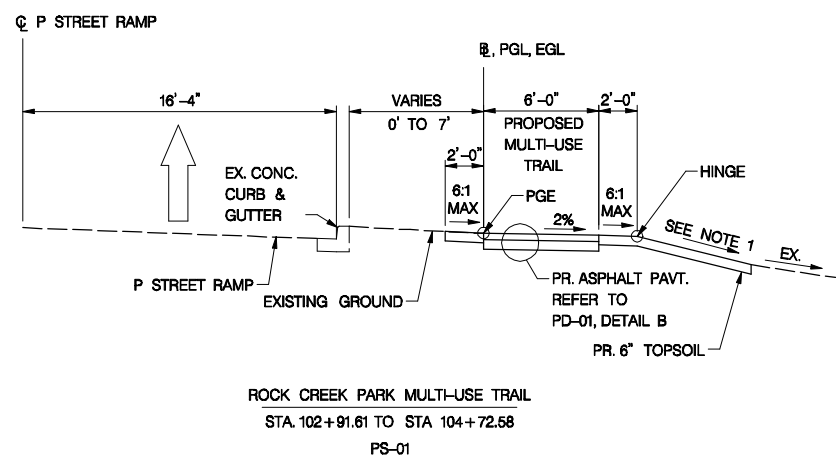
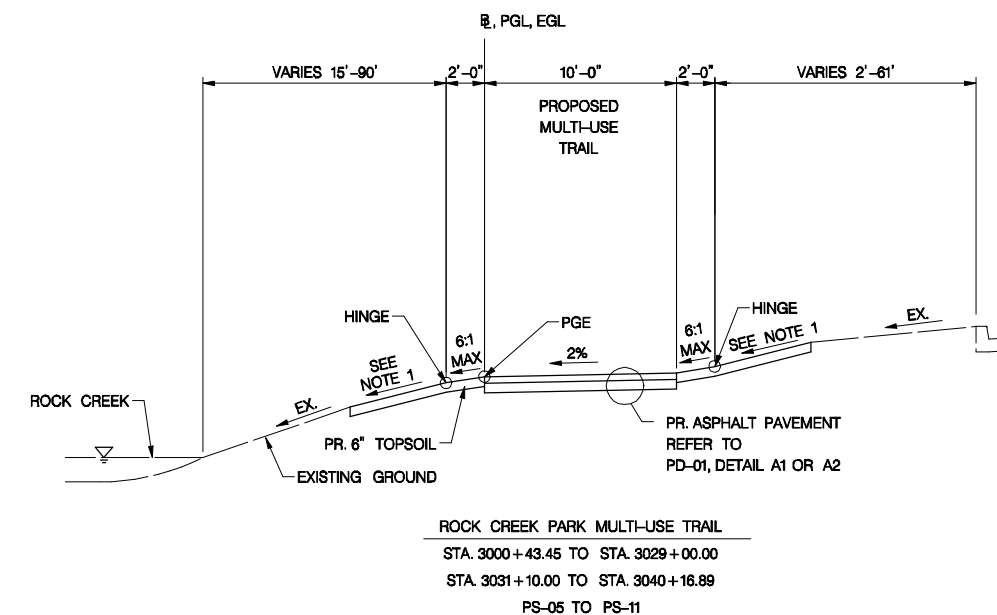
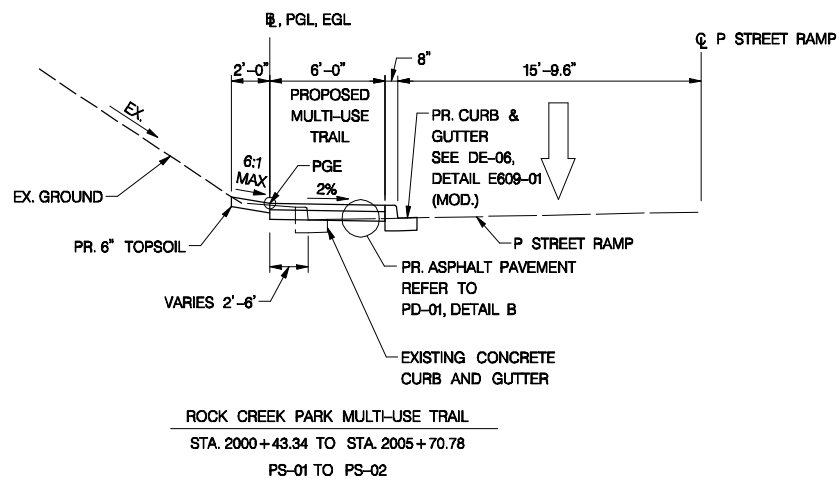
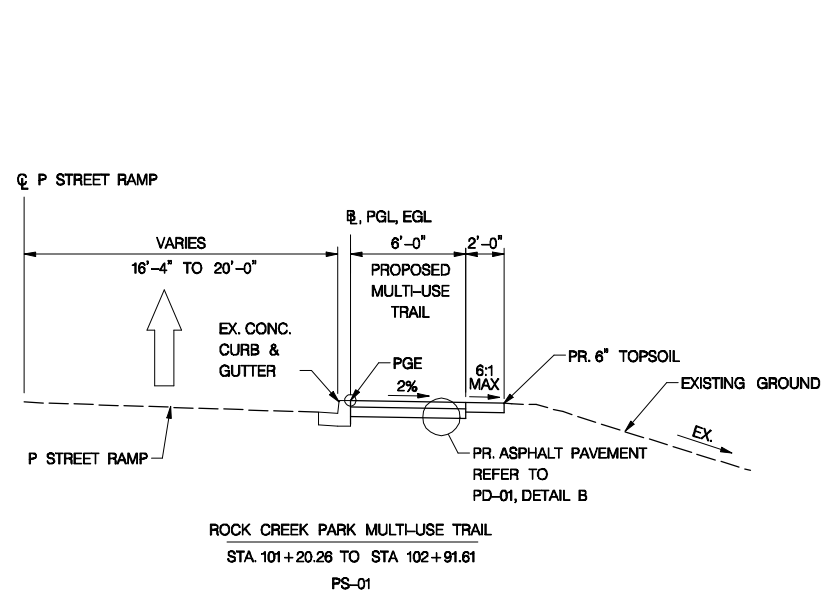
D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: 1" = 100'	GL-11
GEOMETRIC LAYOUT SHEET		
DIVISION CHIEF		
DATE: _____	FILE: _____	SHEET 016 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		017	124



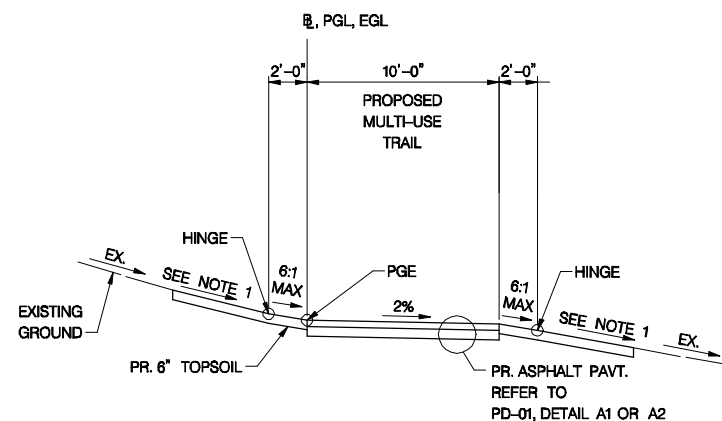
NOTES:
1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.

DATE: 09-13-2013	SCALE: 1" = 5'	TS-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 017 OF 124

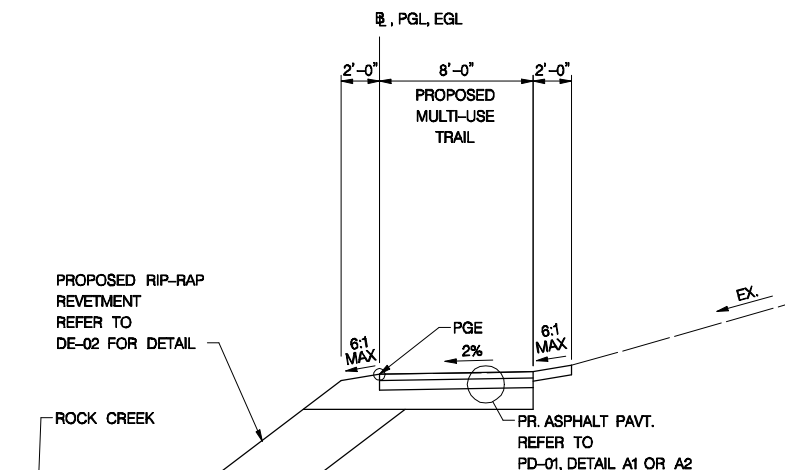
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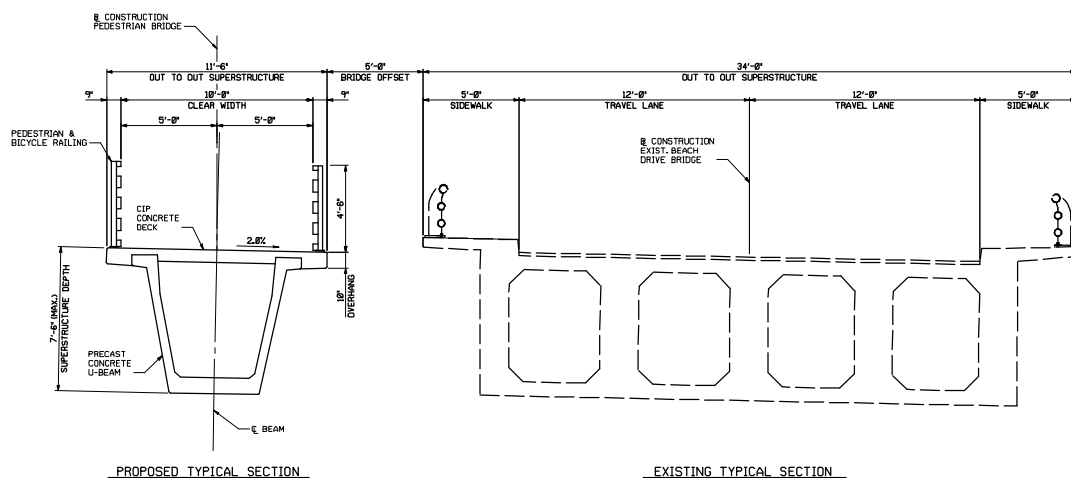
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ROCK CREEK PARK MULTI-USE TRAIL
 STA. 4000+69.87 TO STA. 4020+10.02
 PS-12 TO PS-15

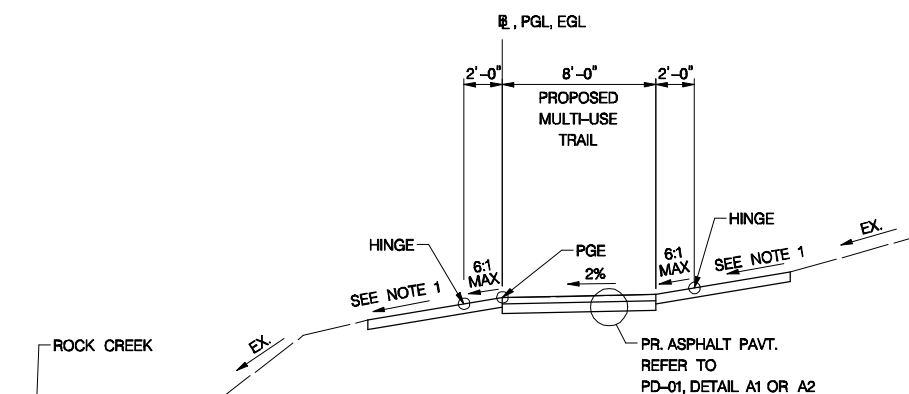


ROCK CREEK PARK MULTI-USE TRAIL
 ON NATIONAL ZOO PROPERTY
 STA. 400+16.01 TO STA. 401+89.00
 STA. 408+25.00 TO STA. 409+88.00
 PS-16 AND PS-19 TO PS-24



TYPICAL SECTION
 SCALE: 1/2" = 1'-0"

PROPOSED PEDESTRIAN BRIDGE OVER ROCK CREEK
 STA. 200+10.12 TO STA. 202+13.07
 PS-16



ROCK CREEK PARK MULTI-USE TRAIL
 ON NATIONAL ZOO PROPERTY
 STA. 401+89.00 TO STA. 408+25.00
 STA. 409+88.00 TO STA. 426+45.89
 PS-16 AND PS-19 TO PS-24

NOTES:

- REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.
- REFER TO BR-01 THRU BR-07 FOR STRUCTURE PLAN, ELEVATION, AND DETAILS.

DATE: 09-13-2013	SCALE: 1" = 5'	TS-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 018 OF 124

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NO.	DESCRIPTION	NAME	DATE

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BEACH DRIVE NW
WORK PROPOSED
BY OTHERS

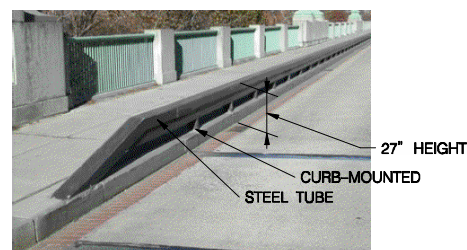
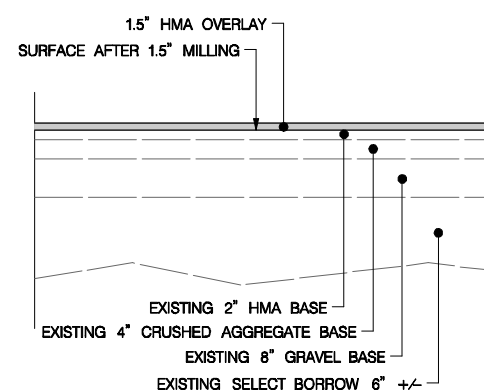
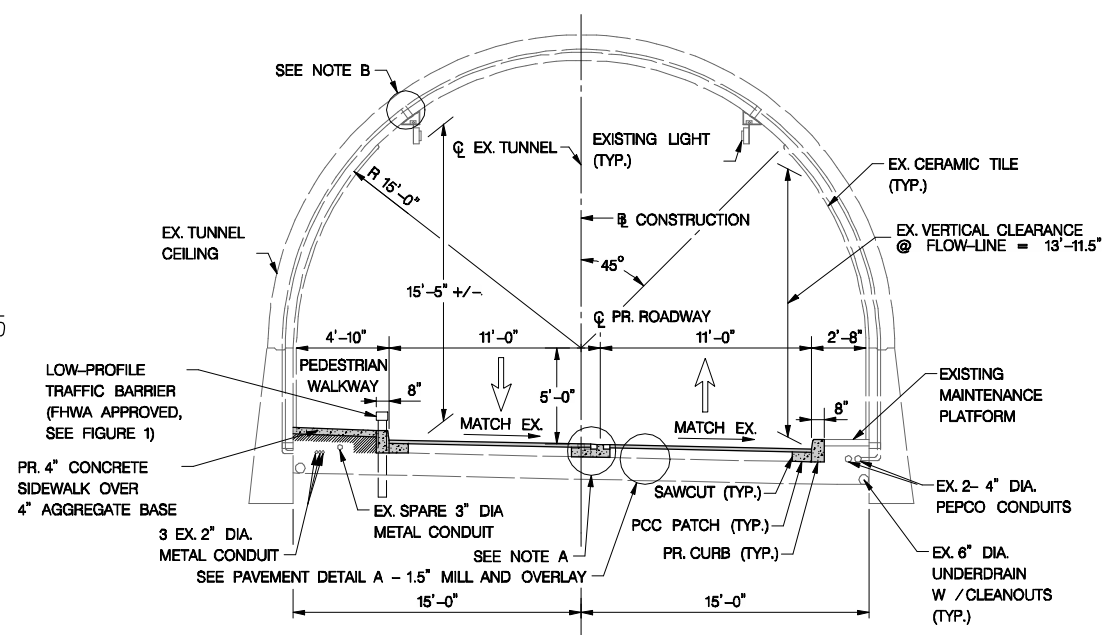


FIGURE 1
EXAMPLE OF LOW-PROFILE BARRIER, CURB MOUNTED
M STREET NW OVER ROCK CREEK PARKWAY
WASHINGTON, DC



PAVEMENT DETAIL A
1.5" MILL AND OVERLAY
SCALE: N/A



PEDESTRIAN WALKWAY THROUGH
BEACH DRIVE TUNNEL (WORK BY OTHERS)
STA. 112+01.10 TO STA 120+09.62 - LOOKING NORTH
SCALE: 1" = 5'

- NOTES:
- A. REMOVE WHITE VITREOUS GLAZED BRICKS AT ROADWAY CENTER LINE. PLACE PCC CONCRETE PATCH. RESET WHITE VITREOUS GLAZED BRICKS AT PR. CENTERLINE.
 - B. EX. CONDUIT AND JUNCTION BOXES. DRAIN CHASE NOT SHOWN FOR CLARITY.
 - C. PEDESTRIAN WALKWAY NOT INTENDED FOR BICYCLE USE. INSTALL SIGNAGE INSTRUCTING BICYCLISTS USING WALKWAY TO DISMOUNT.



PRELIMINARY
NOT FOR CONSTRUCTION

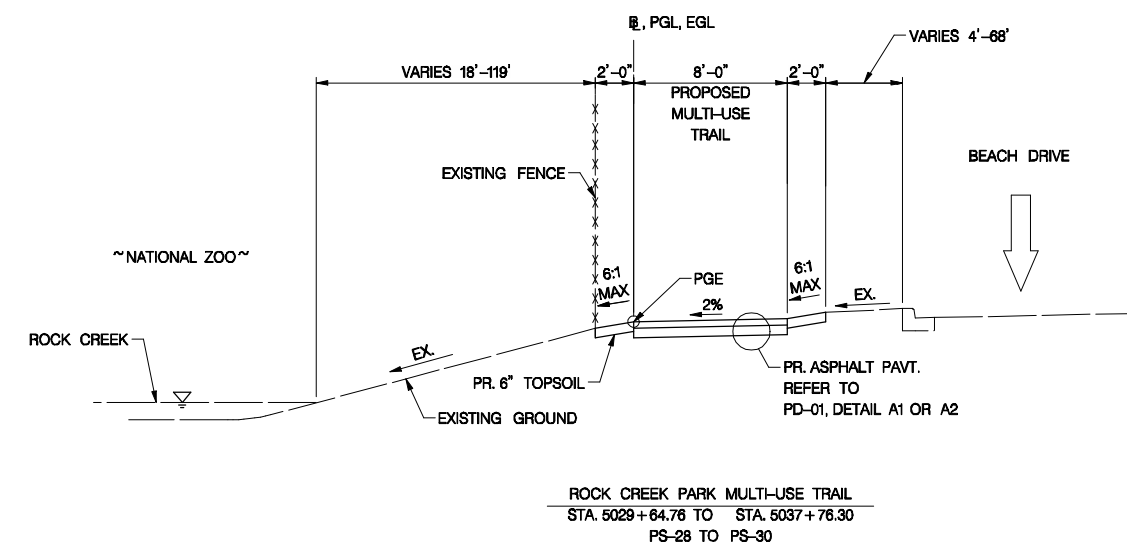
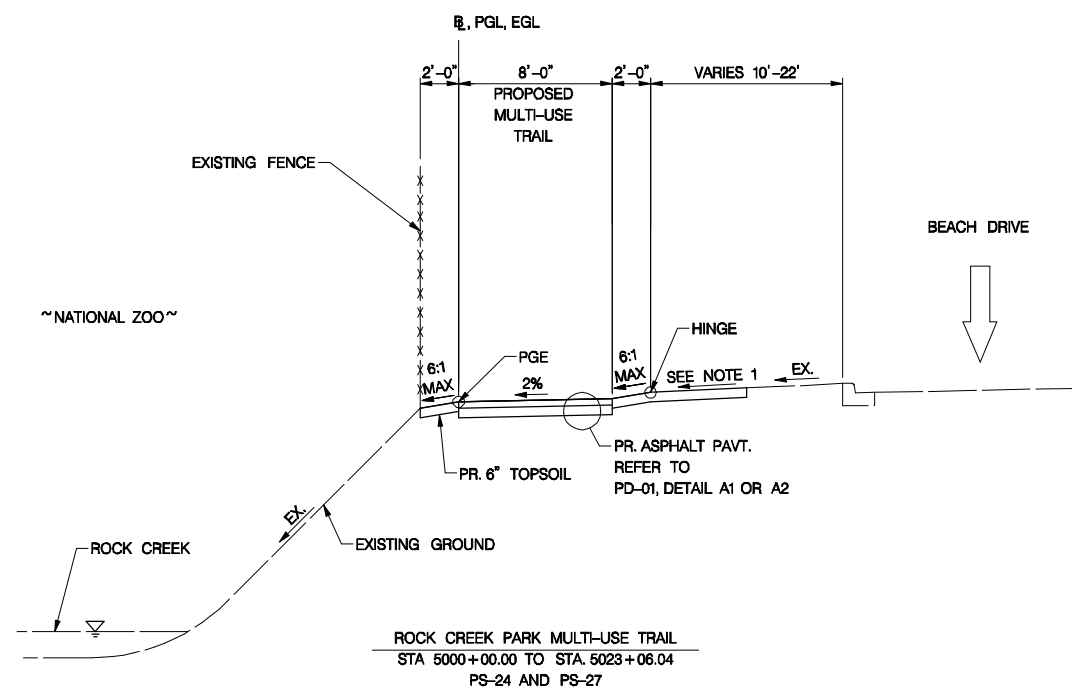
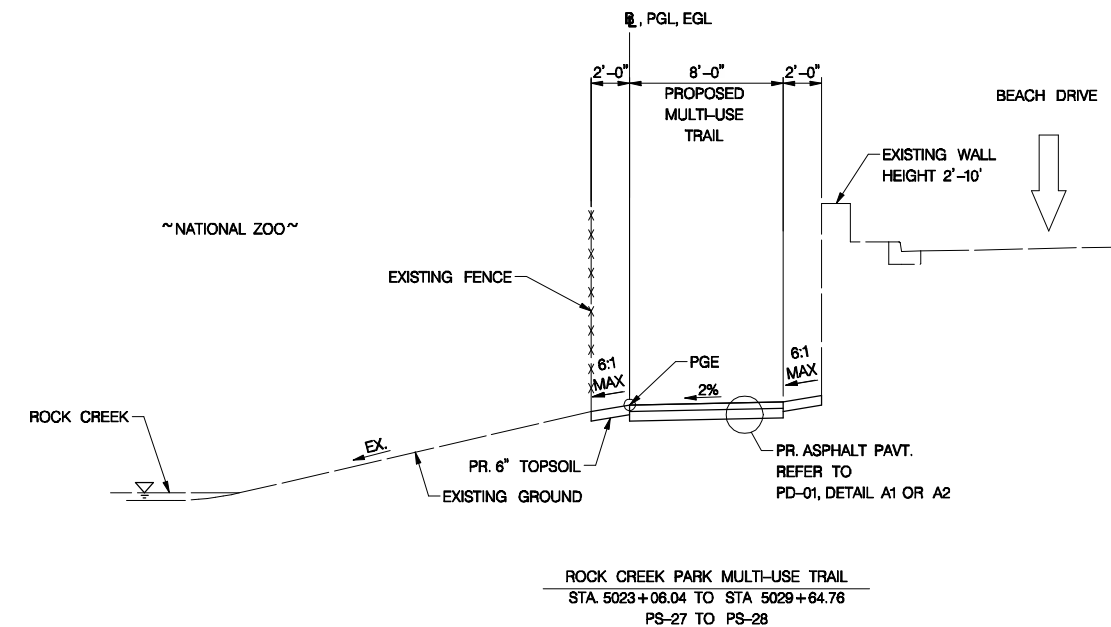


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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: 1" = 5'	TS-03
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTION BEACH DRIVE TUNNEL (WORK BY OTHERS)		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 019 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		020	124



NOTES:

- 1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.
- 2) CONTRACTOR IS NOT TO DISTURB FENCE.

DATE: 09-13-2013	SCALE: 1" = 5'	TS-04
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 020 OF 124

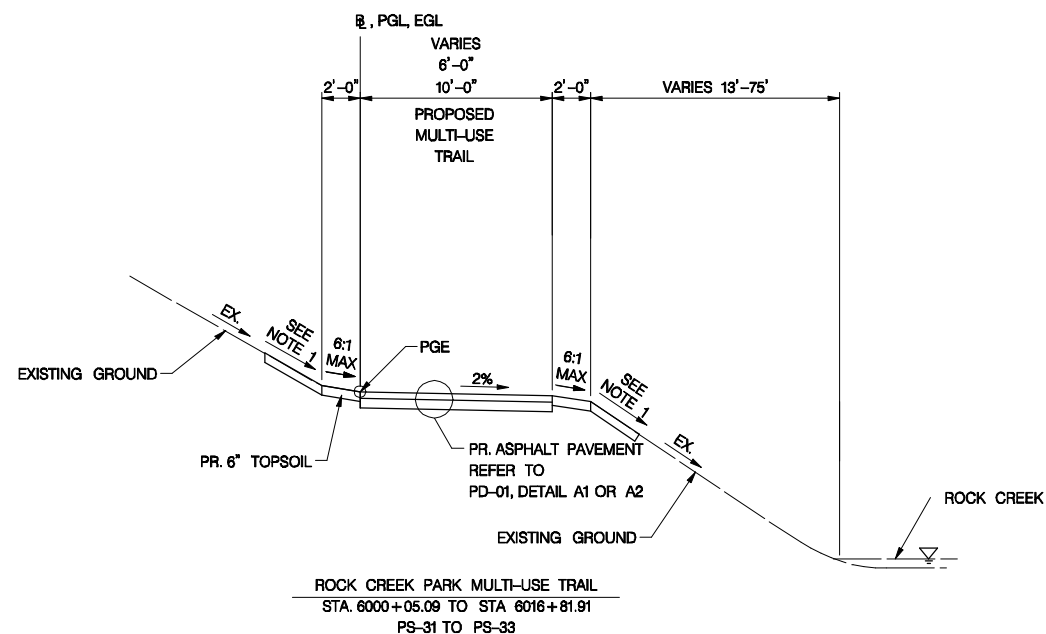
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



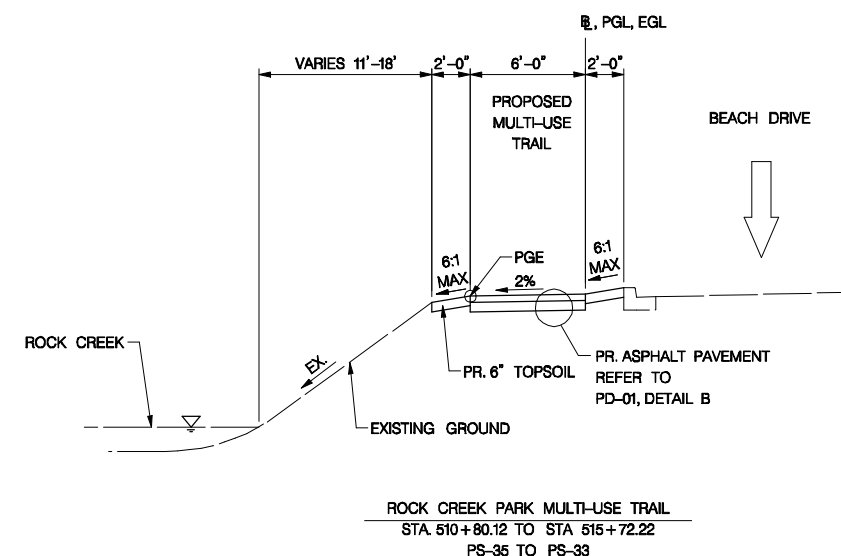
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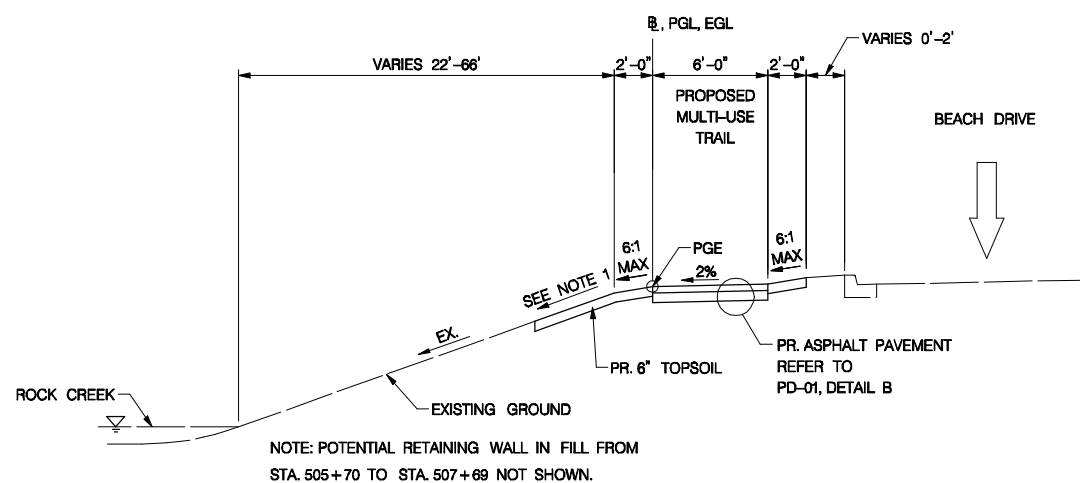
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		021	124



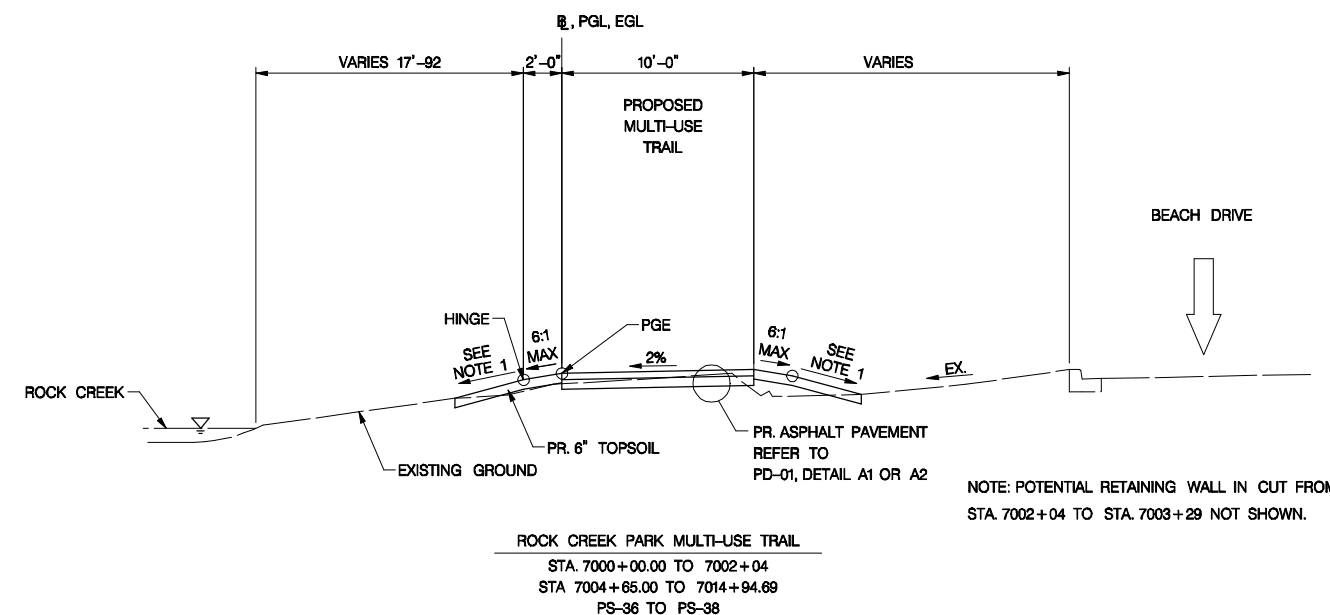
ROCK CREEK PARK MULTI-USE TRAIL
STA. 6000+05.09 TO STA. 6016+81.91
PS-31 TO PS-33



ROCK CREEK PARK MULTI-USE TRAIL
STA. 510+80.12 TO STA. 515+72.22
PS-35 TO PS-33



ROCK CREEK PARK MULTI-USE TRAIL
STA. 505+35.16 TO STA. 508+86.19
PS-35 TO PS-35



ROCK CREEK PARK MULTI-USE TRAIL
STA. 7000+00.00 TO 7002+04
STA. 7004+65.00 TO 7014+94.69
PS-36 TO PS-38

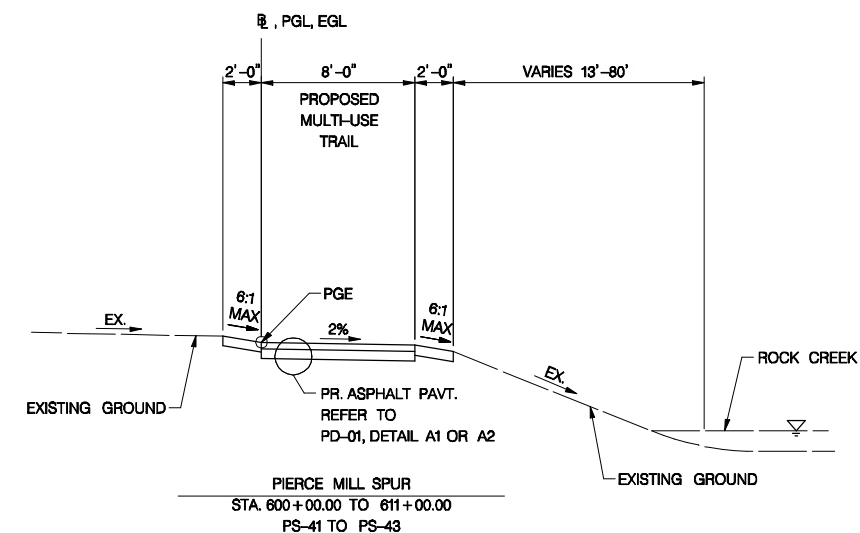
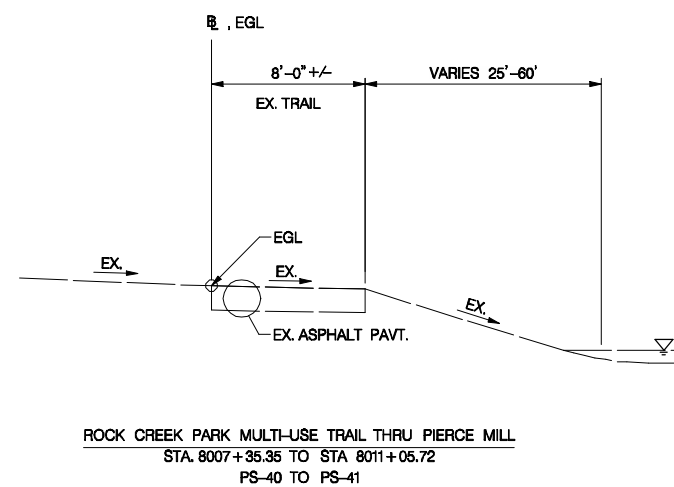
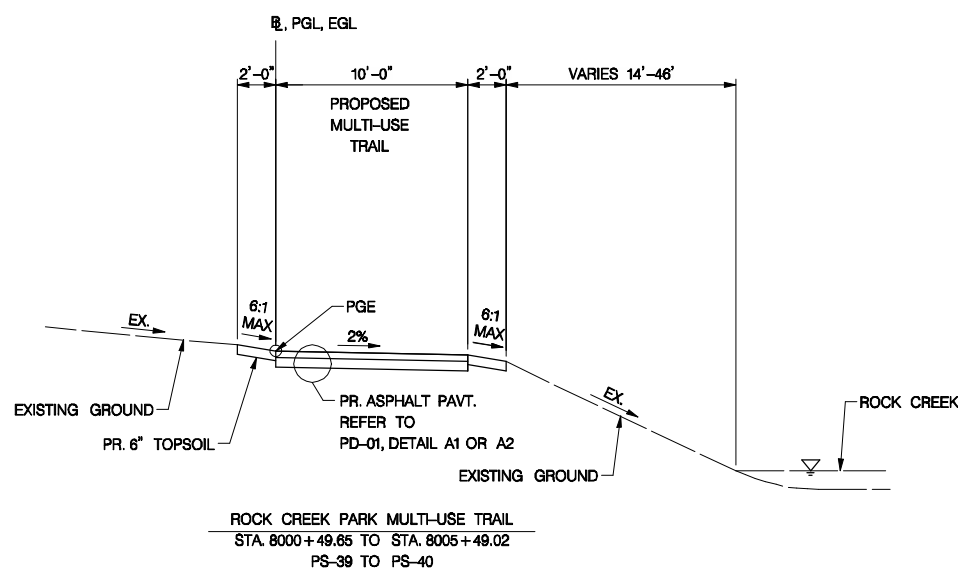
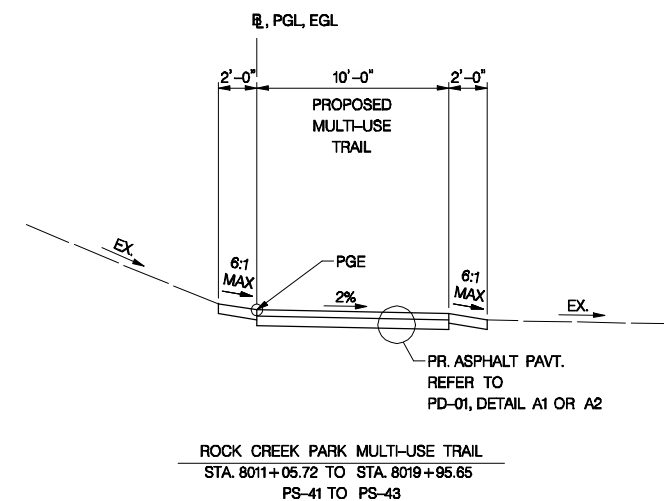
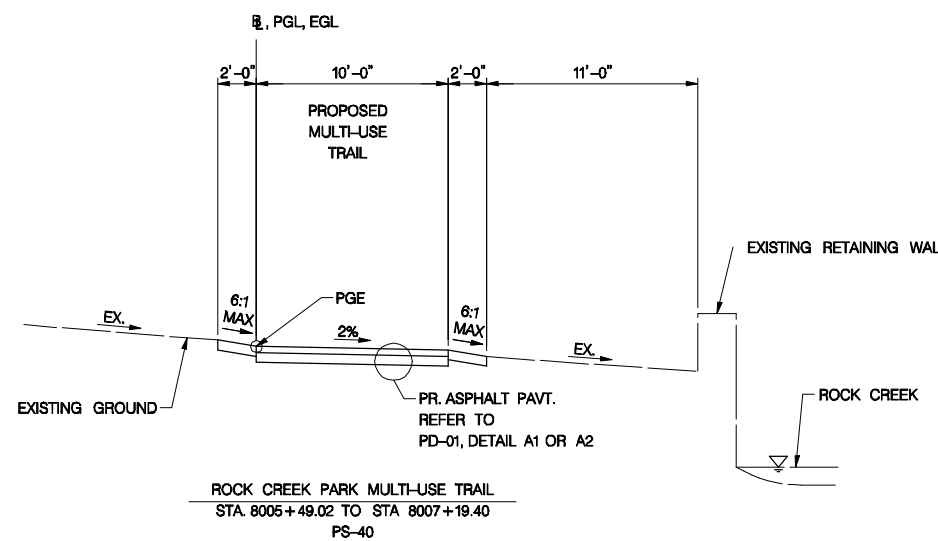
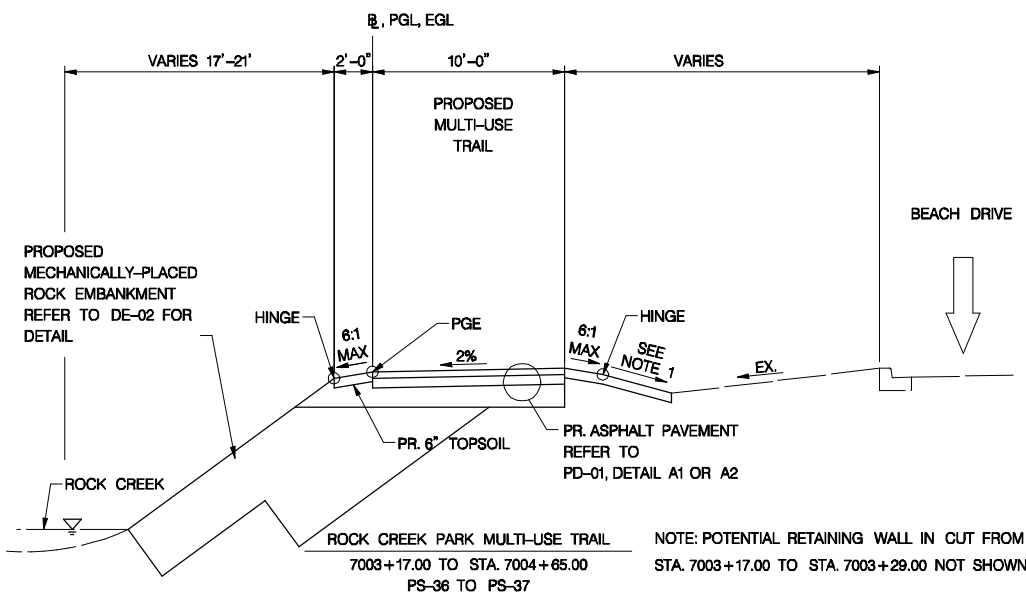
NOTES:
1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.

DATE: 09-13-2013	SCALE: 1"=5'	TS-05
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 021 OF 124



NOT FOR CONSTRUCTION

NO.	DESCRIPTION	NAME	DATE
REVISIONS			



NO WORK IN THIS AREA
SHOWN FOR INFORMATION ONLY

NOTES:

- 1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.

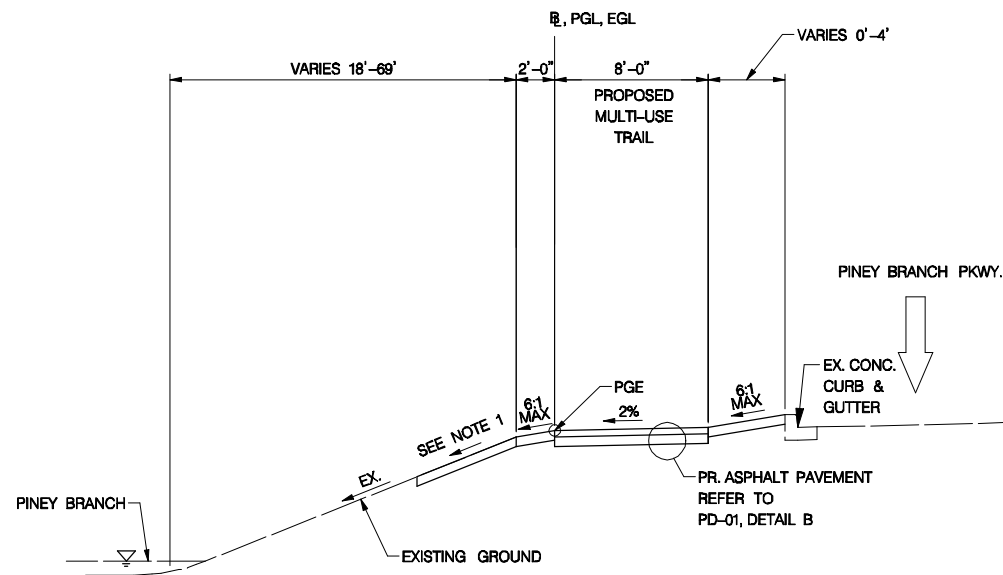
NOT FOR CONSTRUCTION



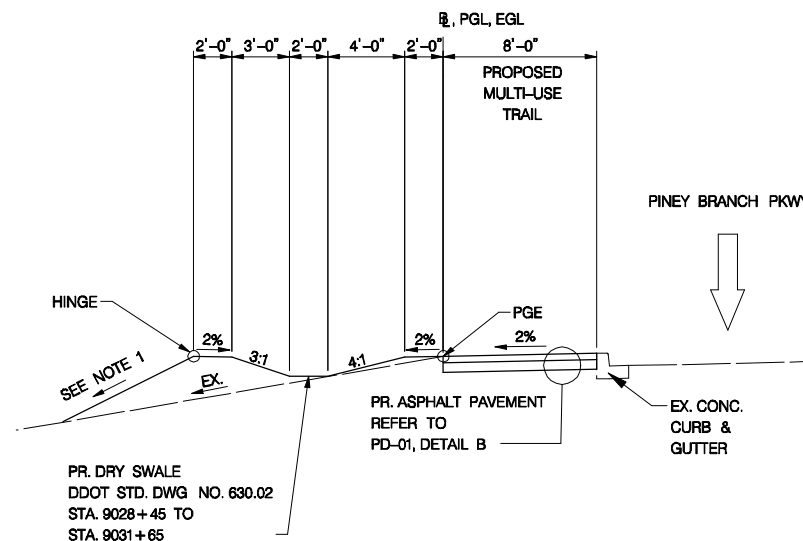
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

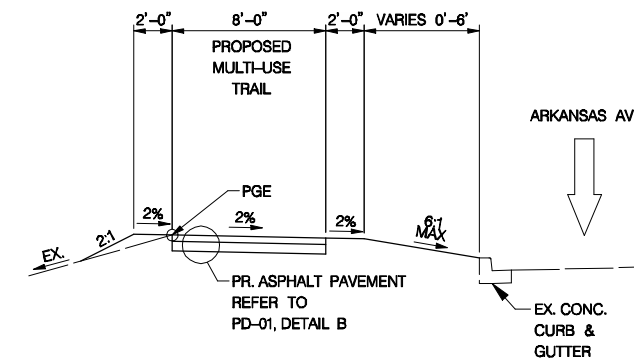
DATE: 09-13-2013	SCALE: 1"=5'	TS-06
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 022 OF 124



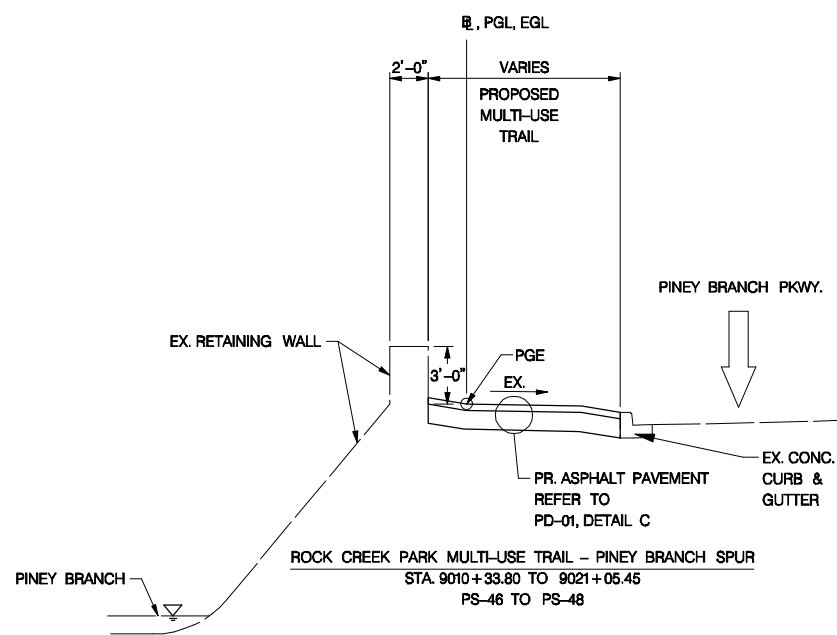
ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9001+74.07 TO STA. 9010+33.80
PS-45 TO PS-46



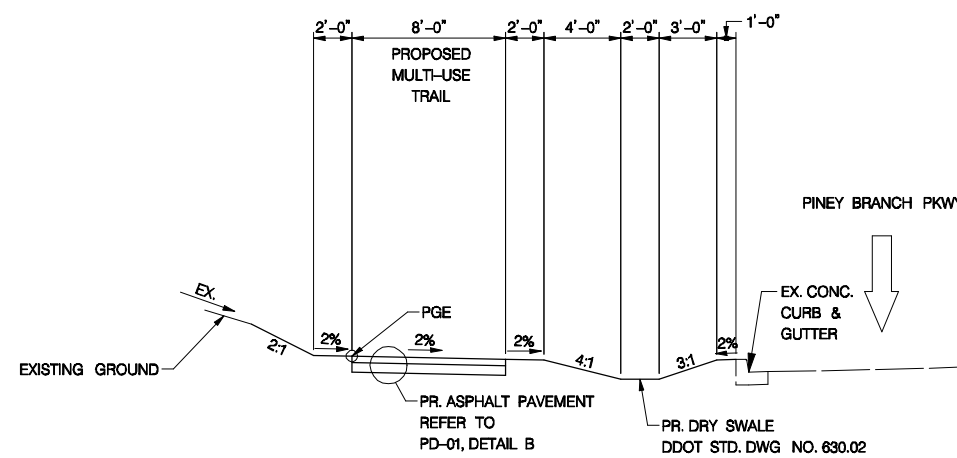
ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9021+05.45 TO STA. 9032+10
PS-48 TO PS-50



ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9043+63.01 TO STA. 9048+76.06
PS-52 TO PS-53



ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9010+33.80 TO STA. 9021+05.45
PS-46 TO PS-48



ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9032+10 TO STA. 9043+63.01
PS-50 TO PS-52

NOTES:
1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: 1"=5'	TS-07
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 023 OF 124