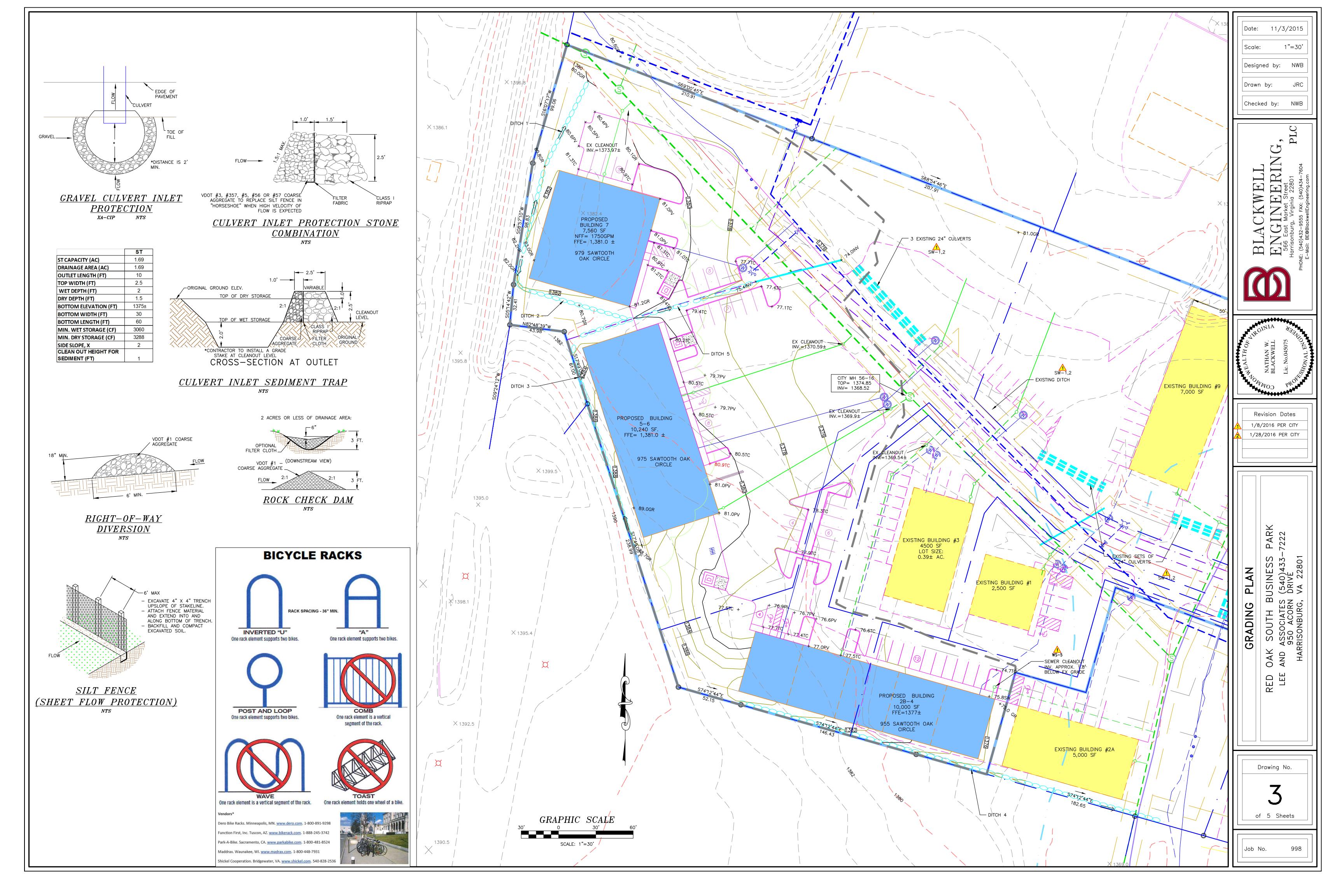
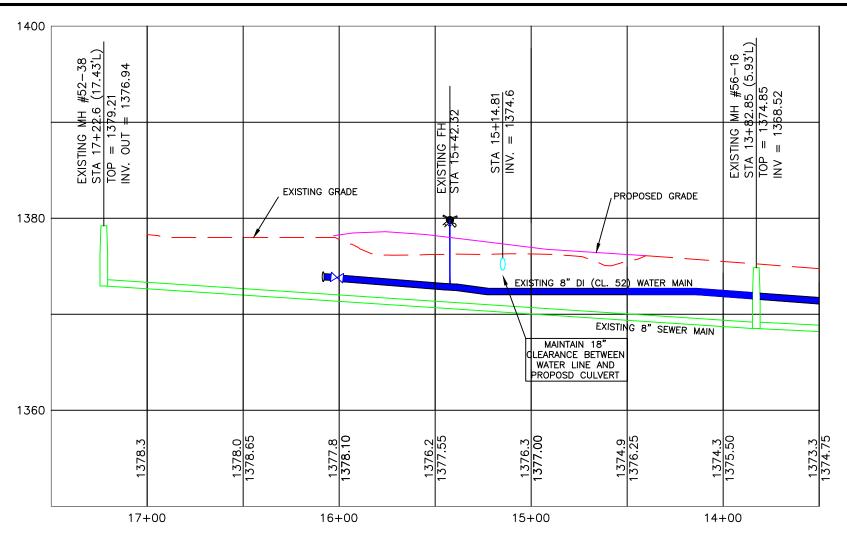
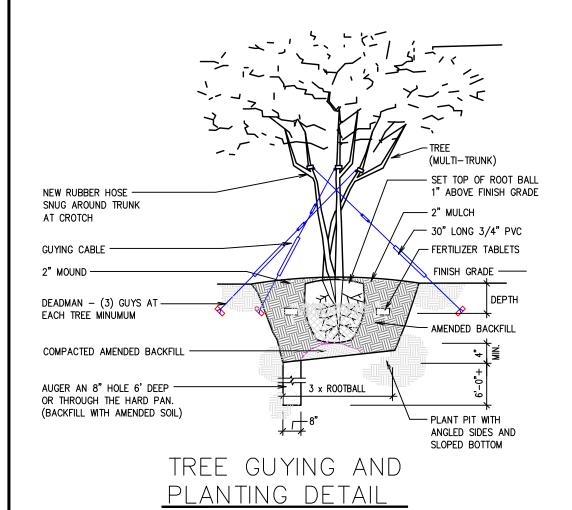


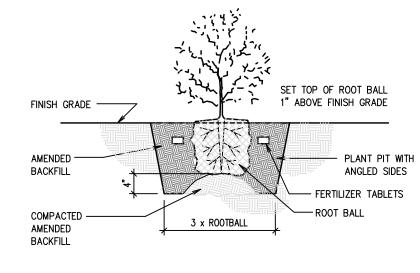
LEGENDGENERAL EROSION & SEDIMENT CONTROL NOTES ---- EXISTING BUILDING 11/3/2015 Date: ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND PROPOSED BUILDING MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA PROPOSED ROAD/EOP REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS. 1"=40 Scale: EXISTING ROAD ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE TYPICAL DITCH SECTION COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. REVISION SYMBOLS Designed by: **EXISTING CONTOURS** — —1230— ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING. PIPE OUTLET TO FLAT ARFA WITH NO PROPOSED CONTOURS DEFINED CHANNEL ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. PROPOSED/EX DITCH OR SWALE *DIVERSION DIKE* |Drawn by: DITCH TABLE PLAN VIEW ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, + 28.5 PV PROPOSED SPOT ELEVATION BOTTOM LEFT RIGHT 10 YR. DITCH 2 YR. VEL. WIDTH SLOPE SLOPE DEPTH DEPTH (FPS) SLOPE LINER OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND PROPOSED DRAINAGE FLOW APPROVAL BY THE PLAN APPROVING AUTHORITY. Checked by: EXISTING DRAINAGE FLOW 0' 3:1 3:1 0.48' 1.00' 1.37 1.2% GRASS ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION CONSTRUCTION ENTRANCE (3.02) AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY. 0' 3:1 3:1 0.48' 1.20' 1.59 1.6% GRASS CONSTRUCTION ROAD STABILIZATION (3.03) ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND 3:1 | 3:1 | 0.29 | 1.10' | 3.14 | 10.5% | GRASS DIVERSION DIKE (3.09) DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. 3:1 3:1 .35' 1.00' 2.55 6.0% GRASS SECTION A-A TEMPORARY SEEDING (3.31) ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE. 3:1 | 3:1 | .31' | 1.00' | 1.31 | 3.5% | GRASS PAVEMENT ! PERMANENT SEEDING (3.32) ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. EXISTING 0' 3:1 3:1 .31' 1.00' 1.31 3.5% GRASS GROUND FILTER CLOTH KEY IN 6"-9" TOPSOILING ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. RECOMMENDED FOR NOTE: DITCH DEPTH IS MINIMUM DEPTH OF CONSTRUCTED DITCH. SILT FENCE (3.05) ENTIRE PERIMETER TEMPORARY SEDIMENT TRAP (3.13) PIPE OUTLET CONDITIONS 12' MIN. OUTLET PROTECTION (3.18) ADDITIONAL ESC GENERAL NOTES AND SCHEDULES CULVERT INLET PROTECTION (3.08) . CONSTRUCTION ENTRANCE, SEDIMENT TRAPS/BASINS, PERIMETER DIKES, SEDIMENT BARRIERS AND ANY OTHER MEASURES INTENDED TO TRAP RIGHT OF WAY DIVERSION (3.11) SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND *MUST EXTEND FULL WIDTH OF EXISTING ESC MEASURES _____ INGRESS AND AGGREGATE 2. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION. EGRESS AREA DISTURBED AREA ---- EXISTING STREAM OR POND 3. PERMANENT OR TEMPORARY SOIL STABILIZATIONS SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE A STONE CONSTRUCTION STORM SEWER PIPE FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED FOR LONGER THAN 30 DAYS). PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS NUMBERS IN PARENTHESES REFER TO VESCH MEASURES THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. M M 4. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION. 5. DURING CONSTRUCTION OF THE PROJECT SOIL STOCK PILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. 6. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OR PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED. 7. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. 8. BEFORE NEWLY CONSTRUCTED STORM WATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONS, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL. 9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT -TOPSOIL STOCKPILE TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NON-ERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NON-ERODIBLE COVER MATERIALS -DISTURBED AREA (2.76 AC) 10. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN A SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NON-ERODIBLE MATERIAL SHALL BE PROVIDED. 11. THE BED AND BANKS OF A WATERCOURSE SHALL BE SEEDED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETE. 12. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OF OFF-SITE PROPERTY. -1.69 A¢/CULVEŘ₹ - 3 EXISTING 24" CULVERTS D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. INLET SEDIMENT TRAP Revision Dates E. RE-STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS. (1.59 A¢) 30'X60' F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH. 1/8/2016 PER CITY 13. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC 1/28/2016 PER CITY ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. 14. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION. EX CLEANOUT -INV.=1370.59± 15. THE GLOBAL STABILITY OF CUT OR FILL SLOPES THAT ARE STEEPER THAN 2H:1V SHALL BE DETERMINED BY A LICENSED GEOTECHNICAL ENGINEER. THE NEED FOR, AND DESIGN OF REINFORCEMENT FOR CUT OR FILL SLOPES THAT ARE STEEPER THAN 2H:1V SHALL BE DETERMINED IN THE IN THE FIELD BY THE ONSITE GEOTECHNICAL ENGINEER PRIOR TO GRADING OR FILLING. 16. THE FOLLOWING ESC SCHEDULE SHALL BE FOLLOWED DURING CONSTRUCTION: 1) INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, DIVERSION DIKES, AND SEDIMENT TRAP AS SHOWN ON THE PLANS. - EXISTING DITCH 2) INSTALL THE STORM NETWORK AS SOON AS GRADING ALLOWS. PLACE INLET PROTECTION IN FRONT OF ANY USED INLETS. INV= 1368.52 3) ONCE THE SITE IS TO ROUGH GRADE, INSTALL CONSTRUCTION ROAD STABILIZATION. 4) UPON RELEASE BY ESC ADMINISTRATOR THE SEDIMENT TRAP SHALL BE FILLED IN. WET STORAGE FROM SEDIMENT TRAP SHALL BE PÁSSED THROUGH A FILTER BAG OR OTHER FILTER DEVICE. WET SEDIMENT SHALL BE REMOVED AND DRIED. SEDIMENT TRAP CONVERTED INTO THE DETENTION POND. EX CLEANOUT __ 5) SEED ENTIRE SITE IMMEDIATELY AFTER REACHING FINAL GRADE. 17. THE OWNER AND CONTRACTOR MAY NEED TO TO MAKE MODIFICATIONS TO THE PLANS TO MATCH FIELD CONDITIONS. SS 133-USINES (540)43 DRIVE VA 228 SEEDING & MULCHING TABLE ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING WITHIN 7 DAYS FOLLOWING FINISH GRADING. SEEDING SHALL BE DONE \supset ACCORDING TO STANDARD & SPECIFICATION 3.31 TEMPORARY OR 3.32 PERMANENT SEEDING, OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. SEEDING MIXTURE SHALL BE AS INDICATED BELOW. TEMPORARY PERMANENT 00EXISTING TREES IN LBS/ACRE SPECIES LBS/ACRE SPECIES DISTURBED AREA TO S ANNUAL RYEGRASS & CEREAL RYE 50-100 KENTUCKY 31 FESCUE 128 BE REMOVED AS NEEDED AK ND RED TOP GRASS ANNUAL RYE GRASS 60-100 SEASONAL NURSE CROP* GERMAN MILLET 20 50 160-250 TOTAL 150 TOTAL *USE SEASONAL NURSE CROP AS INDICATED BELOW ☐ | MAR. — MAY 15th ANNUAL RYE FOXTAIL MILLE ☐ | FEB. 16th − APR. 30th ANNUAL RYEGRASS GERMAN MILLET ANNUAL RYE | MAY 1st - AUG. 31st | AUG. 16th - OCT. □ NOV. − FEB. WINTER RYE ORGANIC MULCH MATERIALS AND APPLICATION RATES VESCH TABLE 3.35-A RATES MULCHES PER ACRE PER 1000 SF 1월 — 2 TONS 70 - 90 lbs. FREE FROM WEEDS AND COARSE MATTER. MUST BE ANCHORED. MIN. 2 TONS FOR STRAW OR HAY SPREAD WITH MULCH BLOWER OR BY HAND Drawing No. WINTER COVER) DO NOT USE AS MULCH FOR WINTER COVER OR DURING HOT, DRY FIBER MULCH MINIMUM 35 lbs. PERIODS.* APPLY AS SLURRY 1500 lbs. CUT OR SHREDDED IN 4-6" LENGTHS. AIR DRIED. DO NOT USE CORN STALKS 4 - 6 tons 185 - 275 lbs. IN FINE TURF AREAS. APPLY WITH MULCH BLOWER OR BY HAND. FREE OF COARSE MATTER, AIR-DRIED. TREAT WITH 12 lbs. of 5 Sheets 185 - 275 lbs. NITROGEN PER TON. DO NOT USE IN FINE TURF AREAS. APPLY WOOD CHIPS 4 - 6 tons WITH MULCH BLOWER, CHIP HANDLER, OR BY HAND. FREE OF COARSE MATTER, AIR-DRIED. DO NOT USE IN FINE TURF BARK CHIPS OR 50 - 70 c.y. 1 — 2 c.y. SHREDDED BARK AREAS. APPLY WITH MULCH BLOWER, CHIP HANDLER, OR BY HAND * WHEN FIBER MULCH IS THE ONLY AVAILABLE MULCH DURING PERIODS WHEN STRAW SHOULD BE USED, APPLY AT A MINIMUM RATE OF 2000 lbs./ac. OR 45 lbs./1000 sq. ft.



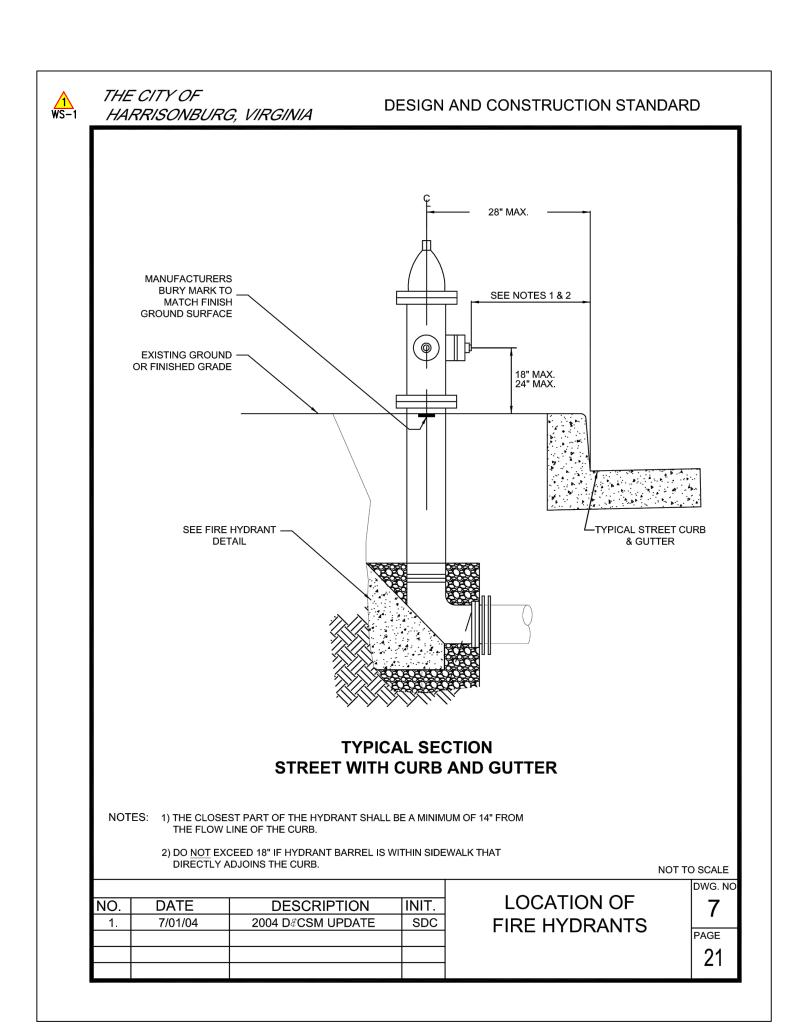


MAIN DRIVE PROFILE SCALE: 1"=50' H; 1"=10' V





SHRUB PLANTING DETAIL



LANDSCAPING NOTES:

LEGEND

EXISTING PROPERTY LINE

PROJECT PROPERTY LINE

PROPOSED ROAD/EOP

PROPOSED SIDEWALKS

PROPOSED BUILDING

PROPOSED LIGHT POLES

EXISTING ROAD

PAVEMENT AREA

GRASS AREA

RETAINING WALL

PROPOSED PROPERTY LINE

1. TOTAL PARKING/ROAD AREA = 40,741 SF (0.94 AC), MIN REQUIRED (15%OF IMP) LANDSCAPING AREAS AREA WITHIN 30' OF PARKING LOT = 20716 SF (0.48 AC).

TOTAL LANDSCAPING AREAS = 40,163 SF (0.92 AC).

- 2. LOCATIONS SHOWN OF TREES AND PLANTS ARE APPROXIMATE. EXACT LOCATIONS ARE TO BE FIELD DETERMINED BY LANDSCAPER.
- 3. TREES ARE TO BE PLACED MINIMUM OF 10' AWAY FROM WATER OR SEWER LINES.
- 4. ALL PLANTING SHALL CONFORM WITH \$10-3-30.1 OF THE CITY OF HARRIONBURG ZONING ORDINANCE.
- 5. LANDSCAPING SHALL NOT IMPEDE SIGHT DISTANCE PER DCSM.
- 6. DECIDUOUS TREES, LARGE WHEN PLANTED ARE TO BE AT LEAST TWO (2) INCHES IN CALIPER AND BE A MINIMUM OF TEN (10) IN HEIGHT. MULTI-STEM TREES SHALL ALSO B A MINIMUM OF TEN (10) FEET IN HEIGHT.

	LANDSCAPING SCHEDULE									
LABEL	TYPE OF SPECIES	EXAMPLES IN GROUP	SIZE/20YEAR							
	LARGE DECIDUOUS TREES	OAKS, MAPLES, BIRCH, CHINESE ELM, DAWN REDWOOD	2" CAL/500sf							
	SMALL FLOWERING TREE	DOGWOOD, CHERRY, REDBUD, SERVICEBERRY	2" CAL/300sf							
(a)	SHRUB	GOLD THREAD FALSECYPRESS, SHAMROCK HOLLY, BOXWOOD	1.5'-2'/ -							

SPECIFIC TYPE OF TREE TO BE BASED ON AVAILABILITY IN LOCAL NURSERY.

20 YEAR AREA COVERAGE SIZE BASED ON 10 YEAR COVERAGE AND FULL GROWTH COVERAGE.

PLANTINGS (TYPE AND QUANTITY) IN DOMINION ELECTRIC'S RIGHT OF WAY WILL BE CHOSEN BY THE LANDSCAPER FROM THE LIST BELOW TO MEET TOWN CODE.

ACCEPTED BY OWNER.



Date: 11/3/2015 Scale: AS NOTED Designed by: NWB

Drawn by: Checked by:

Revision Dates 1/8/2016 PER CITY 1/28/2016 PER CITY

SSOCIATES 350 ACORN RISONBURG, AK RED LEE

Drawing No.

of 5 Sheets

	Water Service Design Table												
Red Oak South Business Park													
			Service line			Static	Residual		Service line	Static	Residual		
	Design	Service	length main	Meter	Service	Pressure	Pressure	Service	length meter	Pressure	Pressure		
	flow rate	line size	to meter	size and	layout	at meter	at meter	line size	to bldg	at fixture	at fixture		
Bldg ID	(gpm)	(in)	(ft)	type	type	(psi)	(psi)	(in)	(ft)	(psi)	(psi)		
2B-4	19.9	1 (2 lines)	50	0.75 Inch	В	20.4	48.9	1 (2 lines)	180	69.9	20.4		
5-6	20.1	1	41	0.75 Inch	В	72	49.5	1	150	68.1	23.7		
7	19.6	1	53	0.75 Inch	В	71	47.4	1	76	68.1	34.2		

LEGEND

 0.25 	0.25 FOOT CANDLES
0.5	0.5 FOOT CANDLES
<u> </u>	1.0 FOOT CANDLES
2.0	2.0 FOOT CANDLES
 5.0- 	5.0 FOOT CANDLES

_____10.0_____ 10.0 FOOT CANDLES

LIGHTING NOTES:

1. LIGHTING TO ADHERE TO CITY OF HARRISONBURG STANDARDS. 2. LIGHTING FIXTURES MAY BE ADJUSTED ON SITE BY CONTRACTOR

3. CALCULATIONS ARE MEASURED ON HORIZONTAL PLANE AT

4. LIGHTING FIXTURES TO BE TYPE SHOWN OR EQUIVALENT. TO MATCH THE EXISTING FIXTURES IN THE PREVIOUSLY DEVELOPED

uminaire S	chedule										
Symbol	Label	Quantity	Manufactur er	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	А	1	Lithonia Lighting	KAD 400M R4 (PROBE)	Area Luminaire, 400W MH, R4 Reflector, Full Cutoff MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 400- WATT CLEAR BT-37 METAL HALIDE, HORIZONTAL POSITION.	1	KAD_400M_ R4_(PROBE). ies	32000	1	462
\otimes	В	1	Lithonia Lighting	KAD 400M R3 (PROBE)	Area Luminaire, 400W MH, R3 Reflector, Full Cutoff MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 400- WATT CLEAR BT-37 METAL HALIDE, HORIZONTAL POSITION.	1	KAD_400M_ R3_(PROBE). ies	32000	1	462
	D	2	Lithonia Lighting	KAD 400M R4 (PROBE)	Area Luminaire, 400W MH, R4 Reflector, Full Cutoff MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 400- WATT CLEAR BT-37 METAL HALIDE, HORIZONTAL POSITION.	1	KAD_400M_ R4_(PROBE). ies	32000	1	924
	Е	8 (2 for Future Proposed Buildings)	Lithonia Lighting	KAD 400M R3 (PROBE)	Area Luminaire, 400W MH, R3 Reflector, Full Cutoff MEETS THE 'NIGHTTIME FRIENDLY' CRITERIA	ONE 400- WATT CLEAR BT-37 METAL HALIDE, HORIZONTAL POSITION.	1	KAD_400M_ R3_(PROBE). ies	32000	1	462

Statistics	
Description	

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
SITE	+	0.8 fc	36.4 fc	0.0 fc	N/A	N/A

Luminaire Locations

No. Label		MH	Orientation	Tilt
1	Α	25.00	203.96	0.00
3	В	25.00	221.99	0.00
1	D	25.00	14.04	0.00
2	D	25.00	0.00	0.00
1	Е	12.00	71.90	0.00
2	Е	12.00	107.57	0.00
3	Е	12.00	17.65	0.00
4	Е	12.00	10.30	0.00
5	Е	12.00	12.72	0.00
6	Е	12.00	15.95	0.00
7	Е	12.00	202.62	0.00
8	E	12.00	199.29	0.00



FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for parking areas, street lighting, walkways and car lots. CONSTRUCTION — Rugged, die-cast, soft corner aluminum housing with 0.12" nominal wall thickness. Die-cast door frame has impact-resistant, tempered, glass lens that is fully gasketed with one-piece tubular silicone. Finish: Standard finish is dark bronze (DDB) polyester powder finish, with other architectural colors available. OPTICS – Anodized, aluminum reflectors: IES full cutoff distributions R2 (asymmetric), R3 (asymmetric), R4 (forward throw) and R5S (square) are interchangeable. High-performance anodized, segmented aluminum reflectors IES full cutoff distributions SR2 (asymmetric), SR3 (asymmetric) and SR4SC (forward throw, sharp $cutoff). High-performance \ reflectors \ attach \ with \ tool-less \ fasteners \ and \ are \ rotatable \ and \ interchangeable.$

ELECTRICAL — Ballast: High pressure sodium: 70-150W is high reactance, high power factor. Constant wattage autotransformer for 200-400W. Metal halide: 70-150W is high reactance, high power factor and is standard with pulse-start ignitor technology. "SCWA" not required. Constant wattage autotransformer for 175-400W. Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for metal halide 151-400W (SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320W, or 350W. Ballast

LISTINGS – UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations.

Length: 17-1/2 (44.5) IP65 rated in accordance with standard IEC 529. WARRANTY — 1-year limited warranty. Complete warranty terms located at

Note: Specifications subject to change without notice.

www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

Socket: Porcelain, horizontally oriented medium base socket for 70-150M. Mogul base socket for 175M and EPA: 1.2 ft.² Width: 17-1/2" (44.5) All dimensions are inches (centimeters)

METAL HALIDE: 70-400W HIGH PRESSURE SODIUM: 70-400W 20'TO 35' MOUNTING *Weight as configured in example below.

CONTOUR

Soft Square Lighting

ER	RINGINFORMATION For shortest lead times, configure product using bolded options . Example : KAD 400M R3 TB SCWA SPD04 LPI										
25	Wattage Distribution					Voltage	Ballast	Mounting ¹²			
	<u>Metal halide</u> 70M ¹² 250M⁵ 100M ¹ 320M ⁴ 150M 350M ^{3,4} 175M ³ 400M ^{5,6} 200M ⁴	High pressure sodium¹ 70S 100S 150S 250S 400S	Ceramic metal halide 70MHC ^{1,2} 100MHC ¹ 150MHC	R2 IES type II asymmetric? R3 IES type III asymmetric? R4 IES type IV forward throw? R55 IES type V square	High performance reflectors ⁸ SR2 IES type II asymmetric ⁷ SR3 IES type III asymmetric ⁸ SR4SC IES type IV forward throw	120 208° 240° 277 347 480° TB¹º 23050HZ¹¹	(blank) Magnetic ballast CWI Contant wattage isolated II Pulse Start SCWA Super CWA pulse-start ballast NOTE- For shipments to U.S. territories, SCWA must be specified to comply with EISA.	Ships in fixture carton SPD Square pole RPD Round pole WBD Wall bracket WWD Wood or pole wall Ships separately ^{13,14} DAD12P Degree arm (pole) DAD12WB Degree arm (wall) WBA Decorative wall bracket ¹⁵ KMA Mast arm external fitter KTMB Twin mounting bar	Arm length 04 4" arm 06 6" arm 09 9" arm 12 12" arm		

Options					Finish ²⁰				Lamp	21
Shipped installed in fixture SF Single fuse (120, 277, 347V) ¹⁶ DF Double fuse (208, 240, 480V) ¹⁶ PD Power tray ¹⁷ PER NEMA twist-lock receptacle only (no photocontrol) QRS Quartz restrike system ¹⁸ QRSTD QRS time delay ¹⁸ WTB Terminal wiring block ¹⁷	CSA INTL REGC1 Shipper HS PE1	CSA Certified Available MH for probe start shipping outside the U.S. California Title 20, effective 1/1/2010 d separately ¹³ House side shield NEMA twist-lock PE (120, 208, 240V)	PE3 PE4 PE7 SC VG WG	NEMA twist-lock PE (277V) Shorting cap for PER option Vandal guard ¹⁹	(blank) DWH DBL DMB DNA Super Dur DDBXD DBLXD	Dark bronze White Black Medium bronze Natural aluminum <u>able Finishes</u> Dark bronze Black	DNAXD DWHXD DDBTXD DBLBXD DNATXD	Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white	L/LP	Lamp included Less lamp
				Notes						

								Not asset the court
							2	Not available with SCWA. Not available with 480V.
	Accessorie Irder as sept		These wattages do not comp California Title 20 regulation Must be ordered with SCWA.					
		4 5	These wattages require the R					
enon O.D.	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°		option to be chosen for shipn
2-3/8"	T20-190	T20-280	T20-290 ²²	T20-320 ²²	T20-390 ²²	T20-490 ²²		California for Title 20 complia REGC1 in not available in 347
2-7/8"	T25-190	T25-280	T25-290 ²²	T25-320	T25-390 ²²	T25-490 ²²	6	Reduced jacket ED28 required
4	T35-190	T35-280	T35-290 ²²	T35-320	T35-390 ²²	T35-490 ²²	7	SR3 and SR4SC optics. House-side shield available.

CWA.	8	High performance reflectors not avail-	15	Available with SPD04 and SPD
80V.		able with QRSTD.	16	Must specicy voltage. N/A with
ot comply with	9	Must specify CWI for use in Canada.	17	Only available with SR2, SR3 a
gulations.	10	Optional multi-tap ballast (120, 208,		SR4SC optics.
h SCWA.		240, 277V; in Canada: 120, 277, 347V).	18	Max allowable wattage lamp i
uire the REGC1	11	Consult factory for available wattages.	19	Prefix with KAD when ordered
for shipments into	12	9" arm is required when two or more		accessory.
compliance. 250M		luminaires are oriented on a 90° drilling	20	See www.lithonia.com/archcol
ole in 347 or 480V.		pattern.		additional color options.
3 required for SR2,	13	May be ordered as an accessory.	21	Must be specified. L/LP not ava
S.	14	Must specify finish when ordered as an		with MHC.
railable		accossory	22	Must use PPD00

mmercial Structure(s) that do not are Common Area	0	27,800	27,800							
imated Private Amenities , walkways, Patios, Outdoor ating, etc.	5,120	35,620	40,740							
ot including Future Proposed Buildings										

Impervious Square Footage for Stormwater Utility Fee Calculations Commercial Structure(s) that do **NOT** share Common Area

Impervious SF | Impervious SF | Development

Total Change in Total Impervious SF After

		Project Name: Red (Dak South Business Park
BMP	TABLE		
Type (see below)	Design Level (1 or 2)	Acres Treated	HUC
16. Other - Purchase Credits - (Only Current Pro Buildings)	,	2.50	PS22 - Blacks Run
Pollutant Removal Achieved (lb / yr.)		P 2.30	— N/A —
Pollutant Removal Required (lb / yr.)		P 2.30	— N/A —
Excess Pollutant Removal (if any) (lb / yr.)		P 0.00	— N/A —
Types (per Virginia BMP Clearinghouse):			
1. Rooftop Disconnection			
2. Sheetflow to Veg. Filter / Open Space			
3. Grass Channel		Hydrological Unit Codes (HUC):	
4. Soil Amendments		PS22 - Blacks Run	
5. Vegetated Roof		PS23 - Cooks Creek	
6. Rainwater Harvesting		PS26 - Congers Creek	
7. Permeable Pavement		PS33 - Cub Run	
8. Infiltration		PS56 - Linville Creek	
9. BioRetention		PS59 - Dry Fork	
10. Urban BioRetention			
11. Dry Swale		Note: All waters above are either impaired or discharges to impaired waters.	
12. Wet Swale			
13. Constructed Wetland			
14. Wet Pond			
15. Extended Detention Pond			
16. Other - Purchase Credits			

Date: 11/3/2015

Scale: AS NOTED

Designed by: NWB

Checked by: NWB

Drawn by:

