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Dewberry
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NCBELS #: F-0929

PROJECT REFERENCE NO.	SHEET NO.
R-4436EJ	3B-1

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 12786 ENGINEER STEVEN M. BOUDON

DocuSigned by:
Steve Boudon 3/21/2017
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TOTAL PROJECT SUMMARY

SUMMARY TOTAL PROJECT COMBINED			
Section	Item	Quantity	Unit
800	MOBILIZATION	0.5	LS
801	CONSTRUCTION SURVEYING	0.5	LS
226	GRADING	0.6	LS
PSP-1	BIO SWALE FILTRATION MEDIA	136	CY
305	15" DRAINAGE PIPE	145	LF
305	6" PERF SUBDRN PIPE	550	LF
305	6" OUTLET PIPE	102	LF
305	6" HDPE 45 DEGREE FITTING	12	EA
305	6" HDPE TEE FITTING	2	EA
840	MASONRY DRAINAGE STRUCTURE	3	EA
840	2 FRAME WITH GRATE STD 840.16	3	EA
PSP-2	CONCRETE CLEANOUT FLUSH MOUNT	7	EA
876	RIP RAP CL. A	68	TON
876	RIP RAP CL. B	38	TON
PSP-3	NO. 57 WASHED STONE	92	TON
PSP-4	POLYPROPYLENE NONWOVEN GEOTEXTILE FABRIC	951	SY
PSP-5	3-D GEOTEXTILE PERMANENT SOIL REINFORCEMENT M/	450	SY
PSP-6	DRAINAGE STRUCTURE MARKERS	7	EA
1664	SODDING (BERMUDA)	1095	SY
1664	WATER	35	1000 GAL
1660	SEEDING & MULCHING	2	ACR
1605	TEMPORARY SILT FENCE	1000	LF
1610	STONE FOR EROSION CONTROL STONE CLASS A	80	TON
1610	SEDIMENT CONTROL STONE	40	TON
1105	TEMPORARY TRAFFIC CONTROL	0.5	LS

INDIVIDUAL SITE SUMMARY

West Bioswale		
Item	Quantity	Unit
UNCLASSIFIED EXCAVATION	305	CY
BIO SWALE FILTRATION MEDIA	47	CY
REMOVE CATCH BASIN	1	EA
REMOVAL EXISTING CONCRETE DITCH LINING	353	SY
6" PERF SUBDRN PIPE	193	LF
6" OUTLET PIPE	27	LF
6" HDPE 45 DEGREE FITTING	6	EA
6" HDPE TEE FITTING	2	EA
MASONRY DRAINAGE STRUCTURE	1	EA
2 FRAME WITH GRATE STD 840.16	1	EA
CONCRETE CLEANOUT FLUSH MOUNT	4	EA
RIP RAP CL. A	34	TON
NO. 57 WASHED STONE	32	TON
POLYPROPYLENE NONWOVEN GEOTEXTILE FABRIC	305	SY
3-D GEOTEXTILE PERMANENT SOIL REINFORCEMENT M/	289	SY
DRAINAGE STRUCTURE MARKERS	4	EA
SODDING (BERMUDA)	540	SY
WATER	17	1000 GAL
SEEDING & MULCHING	0.8	ACR
TEMPORARY SILT FENCE	600	LF
STONE FOR EROSION CONTROL STONE CLASS A	20	TON
SEDIMENT CONTROL STONE	10	TON

East Bioswale - 1		
Item	Quantity	Unit
UNCLASSIFIED EXCAVATION	203	CY
BIO SWALE FILTRATION MEDIA	41	CY
REMOVAL EXISTING CONCRETE DITCH LINING	130	SY
15" DRAINAGE PIPE	145	LF
6" PERF SUBDRN PIPE	169	LF
6" OUTLET PIPE	23	LF
6" HDPE 45 DEGREE FITTING	2	EA
MASONRY DRAINAGE STRUCTURE	2	EA
2 FRAME WITH GRATE STD 840.16	2	EA
CONCRETE CLEANOUT FLUSH MOUNT	1	EA
RIP RAP CL. A	10	TON
NO. 57 WASHED STONE	28	TON
POLYPROPYLENE NONWOVEN GEOTEXTILE FABRIC	246	SY
3-D GEOTEXTILE PERMANENT SOIL REINFORCEMENT M/	161	SY
DRAINAGE STRUCTURE MARKERS	1	EA
SODDING (BERMUDA)	338	SY
WATER	11	1000 GAL
SEEDING & MULCHING	0.5	ACR
TEMPORARY SILT FENCE	400	LF
STONE FOR EROSION CONTROL STONE CLASS A	20	TON
SEDIMENT CONTROL STONE	10	TON

East Bioswale - 2		
Item	Quantity	Unit
UNCLASSIFIED EXCAVATION	84	CY
BIO SWALE FILTRATION MEDIA	19	CY
REMOVAL EXISTING CONCRETE DITCH LINING	67	SY
6" PERF SUBDRN PIPE	69	LF
6" OUTLET PIPE	25	LF
6" HDPE 45 DEGREE FITTING	2	EA
CONCRETE CLEANOUT FLUSH MOUNT	1	EA
RIP RAP CL. A	24	TON
NO. 57 WASHED STONE	13	TON
POLYPROPYLENE NONWOVEN GEOTEXTILE FABRIC	177	SY
DRAINAGE STRUCTURE MARKERS	1	EA
SODDING (BERMUDA)	84	SY
WATER	3	1000 GAL
SEEDING & MULCHING	0.1	ACR
TEMPORARY SILT FENCE	0	LF
STONE FOR EROSION CONTROL STONE CLASS A	20	TON
SEDIMENT CONTROL STONE	10	TON

East Bioswale - 3		
Item	Quantity	Unit
UNCLASSIFIED EXCAVATION	106	CY
BIO SWALE FILTRATION MEDIA	30	CY
REMOVAL EXISTING CONCRETE DITCH LINING	101	SY
6" PERF SUBDRN PIPE	119	LF
6" OUTLET PIPE	28	LF
6" HDPE 45 DEGREE FITTING	2	EA
CONCRETE CLEANOUT FLUSH MOUNT	1	EA
RIP RAP CL.B	38	TON
NO. 57 WASHED STONE	20	TON
POLYPROPYLENE NONWOVEN GEOTEXTILE FABRIC	223	SY
DRAINAGE STRUCTURE MARKERS	1	EA
SODDING (BERMUDA)	133	SY
WATER	4	1000 GAL
SEEDING & MULCHING	0.3	ACR
TEMPORARY SILT FENCE	0	LF
STONE FOR EROSION CONTROL STONE CLASS A	20	TON
SEDIMENT CONTROL STONE	10	TON

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