

CONSTRUCTION SEQUENCE FOR LAND QUALITY

- OBTAIN PLAN APPROVAL FROM DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES, LAND QUALITY SECTION. (RALEIGH DIVISION)
- CLEAR AND GRUB ONLY ENOUGH TO INSTALL THE GRAVEL CONSTRUCTION ENTRANCE, DIVERSION DITCHES, TEMPORARY SEDIMENT BASINS AND CHECK DAM IN ACCORDANCE WITH THE APPROVED PLANS.
- CALL FOR INSPECTION BY LAND QUALITY SECTION FOR CERTIFICATE OF COMPLIANCE.
- PROCEED WITH CLEARING AND GRADING ACTIVITIES AS SHOWN ON THE APPROVED PLANS.
- INSTALL STORM DRAINAGE PIPES AS STREETS ARE BROUGHT UP TO GRADE. USE EXISTING 2'-48" CULVERTS AT BOOGER BRANCH AND CUB CREEK UNTIL A COVER DAM AND PUMP IS CONSTRUCTED UPSTREAM OF THE CULVERT INVERT. PUMP THE EXISTING STREAM WHILE THE PERMANENT CULVERTS ARE BEING INSTALLED. AFTER CULVERTS ARE IN PLACE INSTALL RIP RAP BASIN AND PROTECT WITH SEDIMENT BASINS AND SILT FENCE AS SHOWN ON THE PLANS.
- ANY PORTION OR PHASE OF SITE UPON WHICH NO LAND DISTURBING ACTIVITY IS BEING UNDERTAKEN WITHIN 15 WORKING DAYS SHALL BE PROVIDED WITH GROUND COVER.
- MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE COURSE OF CONSTRUCTION. NO EROSION CONTROL MEASURE IS TO BE REMOVED UNTIL ALL CONTRIBUTING AREAS ARE STABILIZED.
- WHEN ALL DISTURBED AREAS ARE STABILIZED CALL FOR FINAL INSPECTION BY LAND QUALITY. UPON APPROVAL BY LAND QUALITY, REMOVE ACCUMULATED SEDIMENT FROM BASIN AND DIVERSIONS. RESTORE TO FINISH GRADE, SEED, AND MULCH REMAINING DISTURBED AREAS.

DIVISION CONTACTS: ASHVILLE 704-253-3341
 WINSTON-SALEM 910-761-2351
 RALEIGH 919-791-4200
 WASHINGTON 919-946-6481
 MOORESVILLE 704-663-1699
 FAYETTEVILLE 910-486-1541
 WILMINGTON 910-256-4161

NOTE:
 THERE ARE NO FEMA MAP FLOOD AREAS ON SITE.
 WATER SERVICE SHALL BE PUBLIC WATER SYSTEM PROVIDED BY CHATHAM COUNTY PUBLIC UTILITIES.

SEDIMENT BASIN DATA

<p>TSB#1 DRAINAGE AREA=0.81 AC DISTURBED AREA=0.81 AC Q2=3.8 CFS REQ AREA=710 SF REQ VOL=1470 CF SIZE=20'x40'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.16'</p>	<p>TSB#10 DRAINAGE AREA=1.9 AC DISTURBED AREA=0.9 AC Q2=3.8 CFS REQ AREA=1655 SF REQ VOL=1634 CF SIZE=20'x40'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.30'</p>
<p>TSB#2 DRAINAGE AREA=4.9 AC DISTURBED AREA=2.3 AC Q2=9.9 CFS REQ AREA=4312 SF REQ VOL=4175 CF SIZE=45'x90'x3' WEIR LENGTH=12' WEIR FLOW DEPTH=0.49'</p>	<p>TSB#11 DRAINAGE AREA=0.63 AC DISTURBED AREA=0.63 AC Q2=1.3 CFS REQ AREA=567 SF REQ VOL=1144 CF SIZE=17'x34'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.14'</p>
<p>TSB#3 DRAINAGE AREA=4.4 AC DISTURBED AREA=1.56 AC Q2=9.9 CFS REQ AREA=3877 SF REQ VOL=2904 CF SIZE=44'x88'x3' WEIR LENGTH=12' WEIR FLOW DEPTH=0.46'</p>	<p>TSB#12 DRAINAGE AREA=3.1 AC DISTURBED AREA=0.5 AC Q2=6.3 CFS REQ AREA=2744 SF REQ VOL=908 CF SIZE=25'x110'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.41'</p>
<p>TSB#4 DRAINAGE AREA=0.2 AC DISTURBED AREA=0.2 AC Q2=0.9 CFS REQ AREA=174 SF REQ VOL=908 CF SIZE=45'x90'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.07'</p>	<p>TSB#13 DRAINAGE AREA=4.9 AC DISTURBED AREA=0.8 AC Q2=9.9 CFS REQ AREA=4312 SF REQ VOL=4175 CF SIZE=45'x90'x3' WEIR LENGTH=12' WEIR FLOW DEPTH=0.49'</p>
<p>TSB#5 DRAINAGE AREA=2.6 AC DISTURBED AREA=0.43 AC Q2=5.2 CFS REQ AREA=2265 SF REQ VOL=726 CF SIZE=34'x68'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.36'</p>	<p>TSB#14 DRAINAGE AREA=2.2 AC DISTURBED AREA=0.4 AC Q2=5.2 CFS REQ AREA=1917 SF REQ VOL=726 CF SIZE=31'x62'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.33'</p>
<p>TSB#6 DRAINAGE AREA=2.4 AC DISTURBED AREA=0.8 AC Q2=8.8 CFS REQ AREA=2091 SF REQ VOL=1452 CF SIZE=32'x66'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.35'</p>	<p>TSB#15 DRAINAGE AREA=0.41 AC DISTURBED AREA=0.41 AC Q2=0.8 CFS REQ AREA=360 SF REQ VOL=744 CF SIZE=14'x28'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.11'</p>
<p>TSB#7 DRAINAGE AREA=1.0 AC DISTURBED AREA=0.34 AC Q2=2.0 CFS REQ AREA=871 SF REQ VOL=517 CF SIZE=21'x42'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.19'</p>	<p>TSB#16 DRAINAGE AREA=2.0 AC DISTURBED AREA=0.20 AC Q2=2.0 CFS REQ AREA=175 SF REQ VOL=363 CF SIZE=10'x20'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.01'</p>
<p>TSB#8 DRAINAGE AREA=4.8 AC DISTURBED AREA=1.2 AC Q2=9.9 CFS REQ AREA=4225 SF REQ VOL=2178 CF SIZE=45'x90'x3' WEIR LENGTH=12' WEIR FLOW DEPTH=0.48'</p>	<p>TSB#17 DRAINAGE AREA=2.0 AC DISTURBED AREA=0.20 AC Q2=2.0 CFS REQ AREA=175 SF REQ VOL=363 CF SIZE=10'x20'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.01'</p>
<p>TSB#9 DRAINAGE AREA=4.9 AC DISTURBED AREA=0.7 AC Q2=9.9 CFS REQ AREA=4312 SF REQ VOL=4225 SF SIZE=45'x90'x3' WEIR LENGTH=12' WEIR FLOW DEPTH=0.49'</p>	<p>TSB#18 DRAINAGE AREA=65 AC DISTURBED AREA=0.36 AC Q2=1.3 CFS REQ AREA=567 SF REQ VOL=1145 CF SIZE=17'x34'x3' WEIR LENGTH=10' WEIR FLOW DEPTH=0.14'</p>

- CHATHAM COUNTY PRELIMINARY
- NO DOT COMMENTS
- LAND QUALITY COMMENTS

**CONSTRUCTION PLANS
 LEGEND OAKS SUBDIVISION**

DRAWN BY	CHECKED BY
ACE	TDS
DATE	9-6-05

REVISIONS

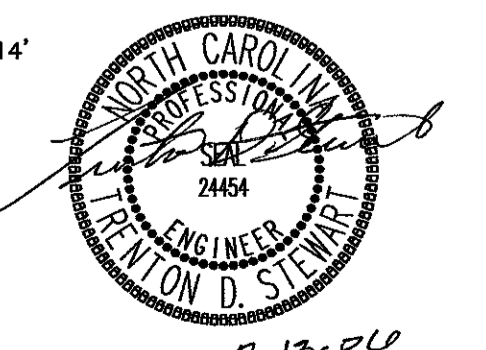
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2	12-21-05
3	2-13-06

SHEET TITLE

EROSION CONTROL PLAN

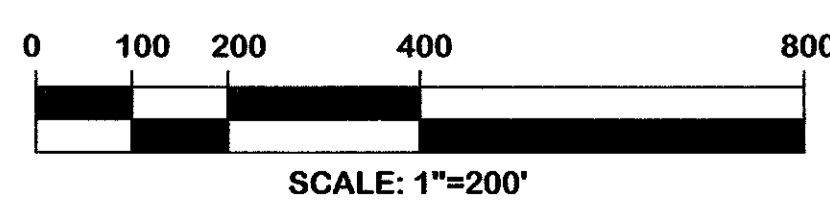
SHEET NUMBER

C3.1
 3 OF 12



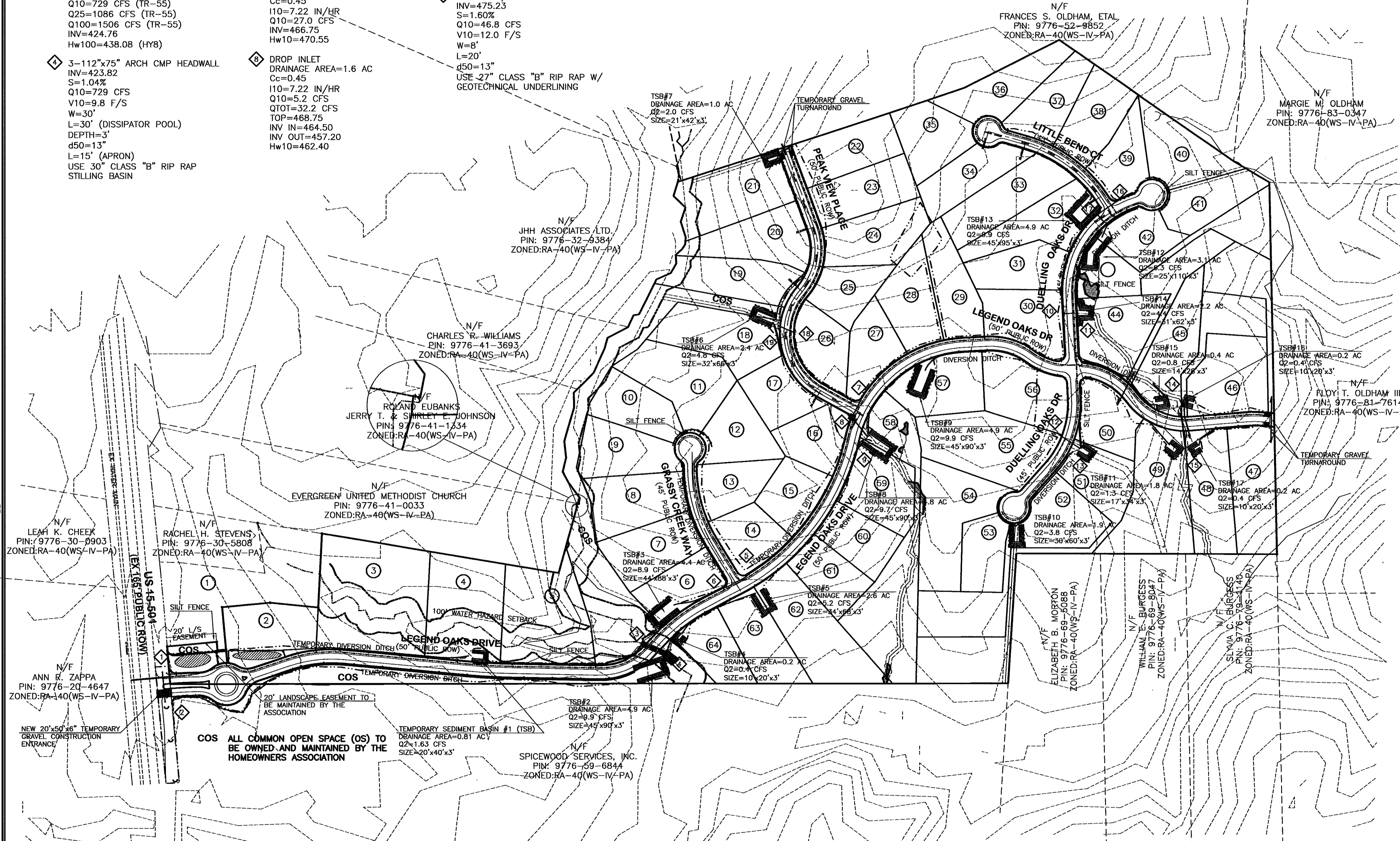
2-13-06

TOTAL DISTURBED AREA=15.7 ACRES



STORM DRAINAGE DATA

- 1 18" FES DRAINAGE AREA=1.7 AC
Cc=0.55
I10=7.22 IN/HR
Q10=6.75 CFS
INV=494.09
Hw10=495.82
- 2 18" FES W/ VELOCITY DISSIPATOR
INV=492.50
S=1.50%
Q10=6.75 CFS
V10=7.4 F/S
W=5'
L=9'
d50=6"
USE 22" CLASS "B" RIP RAP W/ GEOTECHNICAL UNDERLINING
- 3 3-112"x75" ARCH CMP DRAINAGE AREA=287 AC
Q10=729 CFS (TR-55)
Q25=1086 CFS (TR-55)
Q100=1506 CFS (TR-55)
INV=424.76
Hw100=438.08 (HY8)
- 4 3-112"x75" ARCH CMP HEADWALL
INV=423.82
S=1.04%
Q10=729 CFS
V10=9.8 F/S
W=30'
L=30' (DISSIPATOR POOL)
DEPTH=3'
d50=13"
L=15' (APRON)
USE 30" CLASS "B" RIP RAP STILLING BASIN
- 5 18" FES DRAINAGE AREA=3.5 AC
Cc=0.45
I10=7.22 IN/HR
Q10=11.4 CFS
INV=448.77
Hw10=451.32
- 6 18" FES W/ VELOCITY DISSIPATOR
INV=447.0
S=2.20%
Q10=11.4 CFS
V10=9.6 F/S
W=5'
L=9'
d50=6"
USE 22" CLASS "B" RIP RAP W/ GEOTECHNICAL UNDERLINING
- 7 24" FES DRAINAGE AREA=8.3 AC
Cc=0.45
I10=7.22 IN/HR
Q10=27.0 CFS
INV=466.75
Hw10=470.55
- 8 DROP INLET DRAINAGE AREA=1.6 AC
Cc=0.45
I10=7.22 IN/HR
Q10=5.2 CFS
Q101=32.2 CFS
INV IN=464.50
INV OUT=457.20
Hw10=462.40
- 9 24" FES W/ VELOCITY DISSIPATOR
INV=455.20
S=2.10%
Q10=32.2 CFS
V10=11.9 F/S
W=6'
L=16"
d50=13"
USE 27" CLASS "B" RIP RAP W/ GEOTECHNICAL UNDERLINING
- 10 NEW CI DRAINAGE AREA=14.4 AC
Cc=0.45
I10=7.22 IN/HR
I25=8.19 IN/HR
Q10=46.8 CFS
TOP=480.08
INV=476.0
Hw25=481.63
- 11 30" HW W/ VELOCITY DISSIPATOR
INV=475.23
S=1.60%
Q10=46.8 CFS
V10=12.0 F/S
W=8'
L=20'
d50=13"
USE 27" CLASS "B" RIP RAP W/ GEOTECHNICAL UNDERLINING
- 12 18" FES DRAINAGE AREA=0.7 AC
Cc=0.45
I10=7.22 IN/HR
Q10=2.3 CFS
INV=461.74
Hw10=462.55
- 13 18" FES W/ VELOCITY DISSIPATOR
INV=455.14
S=7.50%
Q10=2.3 CFS
V10=9.8 F/S
W=5'
L=9'
d50=6"
USE 22" CLASS "B" RIP RAP W/ GEOTECHNICAL UNDERLINING
- 14 36" HW W/ VELOCITY DISSIPATOR
INV=427.90
S=2.37%
Q10=69.2 CFS
V10=15.6 F/S
W=9'
L=24"
d50=18"
USE 27" CLASS "B" RIP RAP W/ GEOTECHNICAL UNDERLINING
- 15 36" HEADWALL DRAINAGE AREA=21.3 AC
Cc=0.45
I10=7.22 IN/HR
I25=8.19 IN/HR
Q10=69.2 CFS
Q25=78.5 CFS
TOP=447.50
INV OUT=431.31
Hw25=438.07
- 16 24" FES DRAINAGE AREA=8.1 AC
Cc=0.45
I10=7.22 IN/HR
Q10=26.4 CFS
INV=490.50
Hw10=494.60
- 17 24" FES W/ VELOCITY DISSIPATOR
INV=486.50
S=5.88%
Q10=26.4 CFS
V10=17.0 F/S
W=6'
L=16"
d50=13"
USE 27" CLASS "B" RIP RAP W/ GEOTECHNICAL UNDERLINING
- 18 18" FES DRAINAGE AREA=2.4 AC
Cc=0.45
I10=7.22 IN/HR
Q10=7.8 CFS
INV=490.50
Hw10=492.27
- 19 18" FES W/ VELOCITY DISSIPATOR
INV=487.55
S=4.61%
Q10=7.8 CFS
V10=11.6 F/S
W=5'
L=12'
d50=13"
USE 27" CLASS "B" RIP RAP W/ GEOTECHNICAL UNDERLINING



COS ALL COMMON OPEN SPACE (OS) TO BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION

TEMPORARY SEDIMENT BASIN #1 (TSB)
 DRAINAGE AREA=0.81 AC
 Q2=1.63 CFS
 SIZE=20'x40'x3'

SPICEWOOD SERVICES, INC.
 PIN: 9776-59-6844
 ZONED: RA-40(WS-IV-PA)