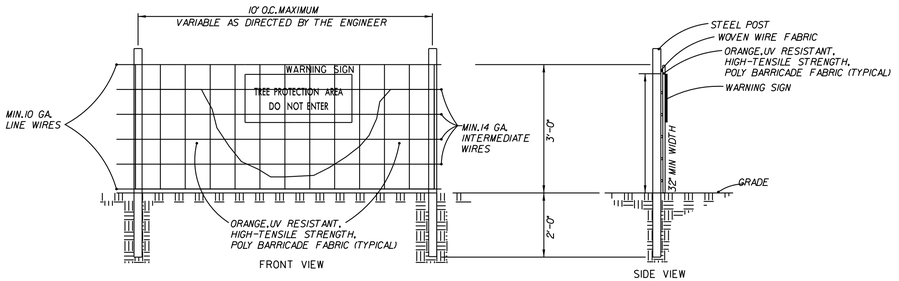
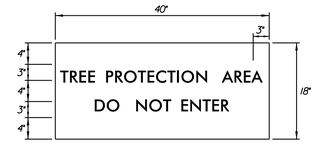
Kimley»Horn
P.O. BOX 33068
RALEIGH, N.C. 27636-3068

PROJECT REFERENCE NO.	SHEET NO.
U-5828	EC-36
R/W SHEET NO.	
RIGHT-OF-WAY REV.	
CONST. REV.	





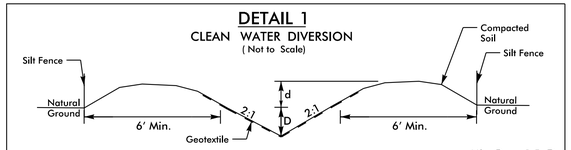
WARNING SIGN DETAIL

NOTES
WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS.
PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.
FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
ADDITIONAL SIGNS MAY BE REQUIRED BY NCDENR.
BASED ON ACTUAL FIELD CONDITIONS.
SIGNS SHALL BE INCIDENTAL TO THE FENCE.

MAINTENANCE:
Inspect tree protection fences at least once a week and after each rainfall.
Make any required repairs immediately.
Should the fabric of a tree protection fence collapse, tear, decompose or become ineffective, replace it promptly.

TREE PROTECTION DETAIL

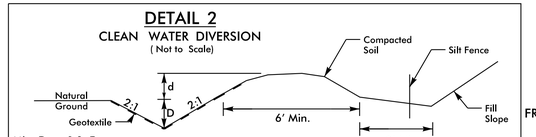
DETAIL 1
CLEAN WATER DIVERSION
(Not to Scale)



Type of Liner = Geotextile for Soil Stabilization
Min. D = 1.5 Ft.
Min. d = 0.5 Ft.

STA. 57+85 –L–
STA. 76+80 –L–
STA. 112+10 –L–
STA. 22+95 –Y7–
STA. 116+05 –L–

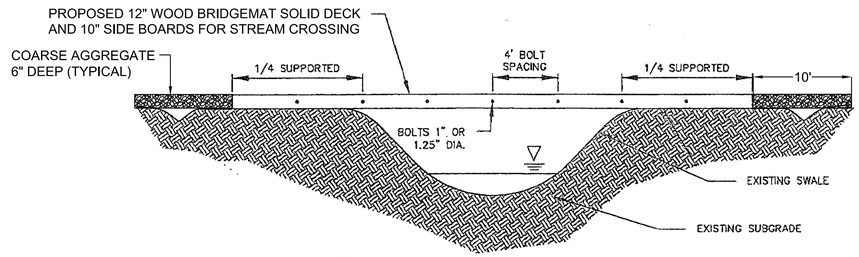
DETAIL 2
CLEAN WATER DIVERSION
(Not to Scale)



Min. D = 1.0 Ft.
Min. d = 0.5 Ft.
Type of Liner = Geotextile for Soil Stabilization

FROM STA. 56+00 TO STA. 57+85 –L– (RT)
FROM STA. 57+85 TO STA. 60+50 –L– (RT)
FROM STA. 61+00 TO STA. 65+85 –L– (RT)
FROM STA. 65+85 TO STA. 68+00 –L– (RT)
FROM STA. 101+65 TO STA. 103+50 –L– (LT)
FROM STA. 113+00 –L– (LT) TO STA. 23+00 –Y3– (RT)
FROM STA. 118+00 TO STA. 121+90 –L– (LT)

TEMPORARY STREAM CROSSING (6.70)



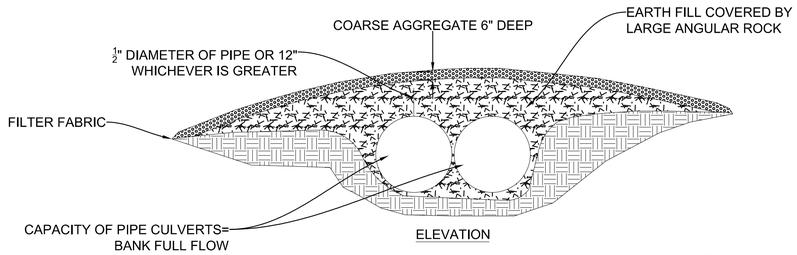
ALTERNATE TEMPORARY STREAM CROSSING (BRIDGEMAT)
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

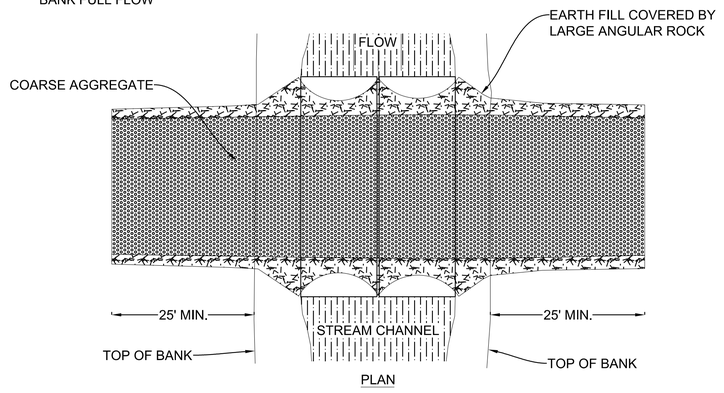
1. Keep clearing and excavation of the stream banks and bed and approach sections to a minimum.
2. Divert all surface water from the construction site onto undisturbed areas adjoining the stream.
3. Keep stream crossing at right angles to the stream flow.
4. Align road approaches with the center line of the crossing for a minimum distance of 30 feet. Raise bridge abutments and culvert fills a minimum of 1 foot above the adjoining approach sections to prevent erosion from surface runoff and to allow flood flows to pass around the structure.
5. Stabilize all disturbed areas subject to flowing water, including planned overflow areas, with riprap or other suitable means if design velocity exceeds the allowable for the in-place soil.
6. Ensure that bypass channels necessary to dewater the crossing site are stable before diverting the stream. Upon completion of the crossing, fill, compact, and stabilize the bypass channel appropriately.
7. Remove temporary stream crossings immediately when they are no longer needed. Restore the stream channel to its original cross-section, and smooth and appropriately stabilize all disturbed areas.
8. Any in-stream control measures must be removed upon stabilization of the area.

MAINTENANCE

Inspect temporary stream crossings after runoff-producing rains to check for blockage in channel, erosion of abutments, channel scour, riprap displacement, or piping. Make all repairs immediately to prevent further damage to the installation.



ELEVATION



PLAN