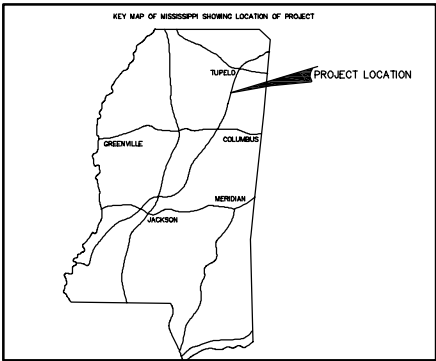




YOUR REGION

YOUR FOREST NAME

YOUR DISTRICT NAME

TRAIL CONSTRUCTION PLANS FOR

YOUR PROJECT NAME



INDEX

SHEET

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REVIEWED BY:

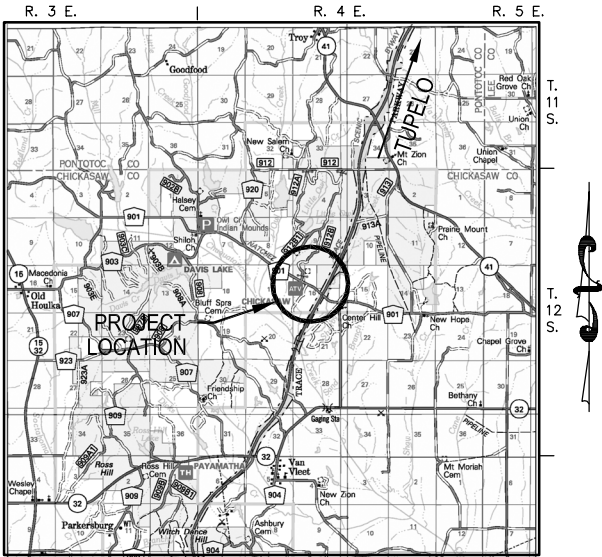
XXX XX/XX/XX
XXX DATE
XXX XX/XX/XX
XXX DATE

RECOMMENDED BY:

XXX XX/XX/XX
DISTRICT RANGER/PROGRAM MANAGER DATE
XXX XX/XX/XX
FOREST/STATION ENGINEER DATE

APPROVED BY:

XXX XX/XX/XX
FOREST SUPERVISOR/STATION DIRECTOR DATE
XXX XX/XX/XX
REGIONAL/RESEARCH ENGINEER DATE



PROJECT SITE

REVISIONS:

No. Δ NAME XX/XX/XX XXX
DATE INITIALS
No. Δ NAME XX/XX/XX XXX
DATE INITIALS
No. Δ NAME XX/XX/XX XXX
DATE INITIALS

DESIGN: NAME XX/XX/XX
DATE
DRAWN: NAME XX/XX/XX
DATE
CHECKED: NAME XX/XX/XX
DATE

PROJECT NAME

YOUR PROJECT NAME

SECTION

900-GENERAL

TYPICAL ID

TTL

REVISION DATE

XX/XX/XX

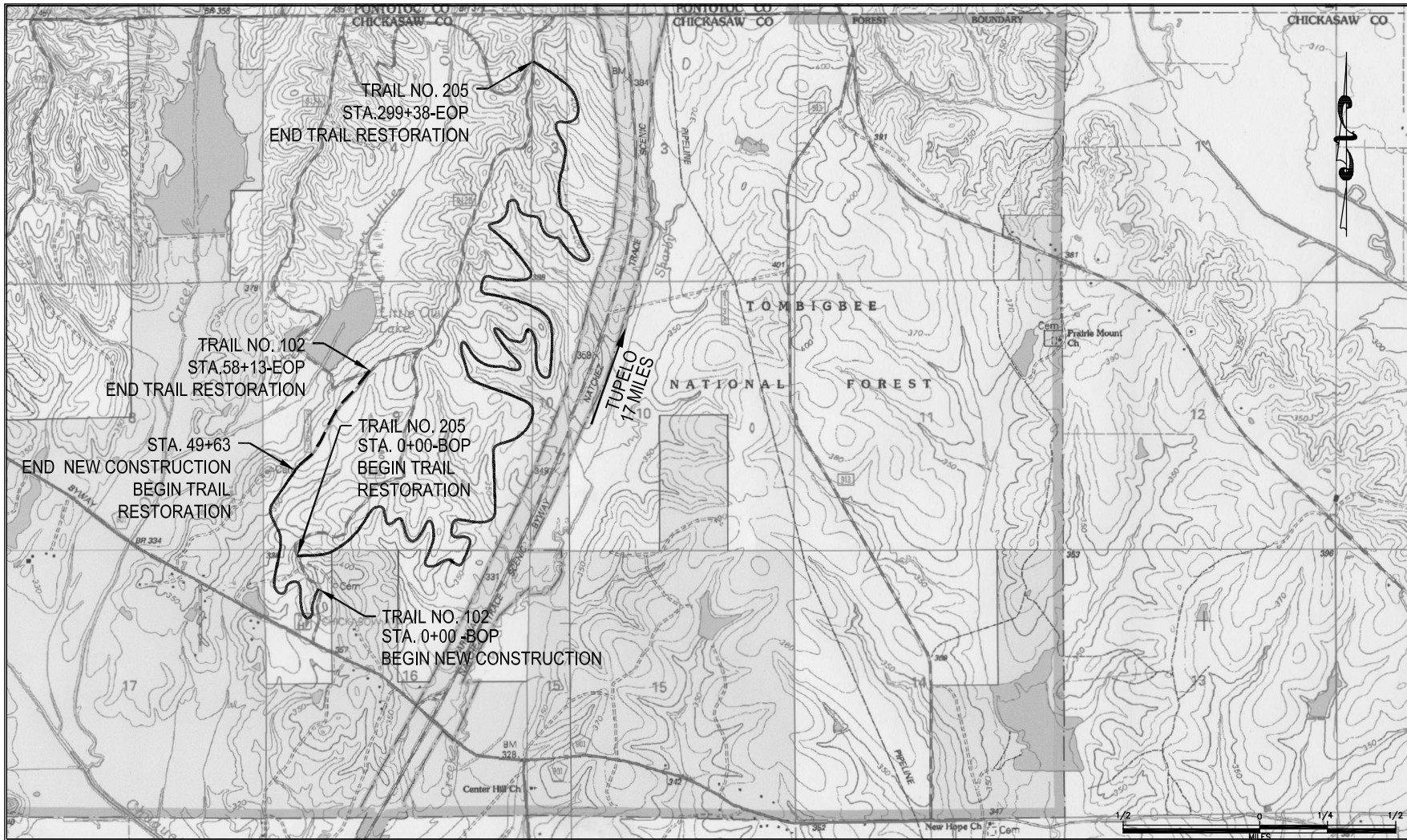
NO SCALE

DRAWING NO.

STD 900-01

SHEET

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U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE



STANDARD TRAIL PLAN

PROJECT NAME & LOCATION

YOUR PROJECT NAME
YOUR FOREST NAME
YOUR DISTRICT NAME

DRAWING NAME

VICINITY MAP

SECTION

900 - GENERAL

TYPICAL ID
VCMI

REVISION DATE
XX/XX/XX

NO SCALE

DRAWING NO.
STD_900-02

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TYPICAL ID DEFINITIONS

GENERAL NOTES

DRAWING NUMBER	TYP ID	DRAWING NAME	DRAWING NUMBER	TYP ID	DRAWING NAME
STD_900-01	TTL	TITLE SHEET	STD_932-10-01	TPK	TURNPIKE
STD_900-02	VCW	VICINITY_MAP	STD_932-20-01	TPF	TURNPIKE_W/FOUNDATION
STD_900-03	CNT	GENERAL_NOTES	STD_933-10-01	SRB	STACKED_ROCK_BARRIER
STD_900-04	WKL	WORK_LIST	STD_933-20-01	MRB	MASONRY_ROCK_BARRIER
STD_900-05	LD1	LINE_DIAGRAM	STD-933-20-02	CMB	CONCRETE_MASONRY_UNIT_BARRIER
STD_900-06	LD2	LINE_DIAGRAM	STD_933-30-01	BRG	BARRIER_RAIL_ON_GRADE
STD_900-07	PP1	PLAN_PROFILE_10	STD_933-40-01	BRP	BARRIER_RAIL_ON_POST
STD_900-08	PP2	PLAN_PROFILE_20	STD_933-40-02	TBP	TIMBER BARRIER ON POST
STD_906-01	SOQ	SUMMARY_OF_QUANTITIES	STD_933-50-01	CRB	CURBS
STD_910-01	STT	STANDARD_TRAIL_TERMS	STD_933-60-01	WGR	W-BEAM GUARDRAIL
STD_911-01	TSF/TCS	TYPICAL_CROSS_SECTION_SLOPE_FINISH	STD_934-10-01	SP1	STANDARD_PUNCHEON
STD_911-02	TDD/TOC	TYPICAL_OBSTRUCTION_CLEARANCE_SECTION	STD_934-10-02	SP2	STANDARD_PUNCHEON
STD_911-03	TRT	TYPICAL_RETAINERS	STD_934-20-01	NDP	NO_DECK_PUNCHEON
STD_911-30-01	ETR	EXISTING_TRAIL_RESTORATION	STD_935-10-01	LCB	LOG_CRIB
STD_911-60-01	OBT	OBLITERATION_OF_TRAILS	STD_935-20-01	RRW	STACKED_ROCK_RETAINING_WALL
STD_912-01	CLT	CLEARING_LIMITS_TREES_LOGS	STD_935-30-01	BRW	WIRE_BASKET_RETAINING_WALL
STD_912-02	CLB	CLEARING_LIMITS_BRUSHING	STD_935-40-01	MRW	MASONRY_ROCK_RETAINING_WALL
STD_913-01	TSS	TYPICAL_SURFACING_SECTION	STD_935-40-02	CUM	CONCRETE_MASONRY_UNIT_RETAINING_WALL
STD_913-02	TSR	TYPICAL_SURFACING_SECTION_W/RETAINERS	STD_935-50-01	CCW	CAST_INPLACE_CONCRETE_WALL
STD_913-03	THS	TYPICAL_HARDENED_SURFACING	STD_936-10-01	ITS	INDIVIDUAL_TIMBER_PINNED_STEP
STD_913-04	HSR	TYPICAL_HARDENED_SURFACING_W/RETAINERS	STD_936-10-02	IRS	INDIVIDUAL_ROCK_STEP
STD_913-40-01	GUS	GRID_UNIT_SURFACING	STD_936-20-01	ORS	OVERLAPPING_ROCK_STEP
STD_913-50-01	RRS	RIPRAP_SURFACING	STD_936-20-02	OTS	OVERLAPPING_TIMBER_STEP
STD_914-01	CTN	CLIMBING_TURN	STD_936-30-01	CRL	CRIB_LADDER
STD_915-01	TAS	TALUS_SECTION	STD_936-40-01	STC	STAIRCASE
STD_916-01	TPS/TOS	TURNOUT_&_PASSING_SECTION	STD_937-10-01	RLS	HANDRAIL_SYSTEM
STD_917-10-01	NFD	NATURAL_FORD	STD_938-10-01	SB1	STANDARD_BOARDWALK
STD_917-20-01	RF1	CONSTRUCTED_ROCK_FORD	STD_938-10-02	SB2	STANDARD_BOARDWALK
STD_917-20-02	RF2	CONSTRUCTED_ROCK_FORD	STD_938-10-03	SB3	STANDARD_BOARDWALK
STD_917-30-01	LF1	CONSTRUCTED_LOG_FORD	STD_938-20-01	EB1	ELEVATED_BOARDWALK
STD_917-30-02	LF2	CONSTRUCTED_LOG_FORD	STD_938-20-02	EB2	ELEVATED_BOARDWALK
STD_918-10-01	RKF	ROCK FOUNDATIONS	STD_938-20-03	EB3	ELEVATED_BOARDWALK
STD_918-20-01	GBF	GABION BASKET FOUNDATIONS	STD_938-20-04	EB4	ELEVATED_BOARDWALK
STD_918-30-01	CBF	CRIB FOUNDATIONS	STD_938-30-01	SNR	STEP_N_RUN
STD_918-40-01	GEF	GEOSYNTHETIC FOUNDATIONS	STD_941-10-01	PWF	POST_N_WIRE_FENCE
STD_918-50-01	CDF	CORDUROY FOUNDATIONS	STD_941-20-01	PRF	POST_N_RAIL_FENCE
STD_921-10-01	SCV	STANDARD_CULVERTS	STD_941-30-01	WWF	WOVEN_WIRE_FENCE
STD_921-20-01	CVH	STANDARD_CULVERTS_W/HEADWALLS	STD_941-40-01	JLF	JACK_LEG_FENCE
STD_921-30-01	RCV	ROCK_CULVERT	STD_941-50-01	SRF	STACKED_RAIL_(WORM)_FENCE
STD_921-40-01	TCV	TREATED_TIMBER_BOX_CULVERT	STD_942-10-01	WRG	WIRE_GATE
STD_921-50-01	OTD	OPEN_TOP_DRAIN	STD_942-10-02	WWG	WOVEN_WIRE_GATE
STD_921-60-01	ACV	BOTTOMLESS_ARCH_ROCK_HEADWALL	STD_942-20-01	MSG	METAL_SWING_GATE
STD_921-70-01	LCV	LOG_CULVERTS	STD_942-20-02	WSG	WOOD_SWING_GATE
STD_922-10-01	RWB	ROCK_WATERBAR	STD_942-20-03	WKG	WOOD_SWING_GATE (FOR KISSING GATES)
STD_922-20-01	TWB	LOG_OR_TREATED_TIMBER_WATERBAR	STD_942-30-01	LRG	LOOSE_RAIL_GATE
STD_922-30-01	BWB	BELTED_WATERBAR	STD_942-40-01	KG1	KISSING_GATE_IN_FENCE
STD_923-10-01	RSP	ROCK_SPILLWAY	STD_942-50-01	KG2	KISSING_GATE_ON_FENCE
STD_924-10-01	RUD	ROCK_UNDERDRAIN	STD_944-10-01	STL	STILES
STD_924-20-01	SUD	SHEET_UNDERDRAIN	STD_944-20-01	CHI	CHICANES
STD_924-20-02	SDP	SHEET_UNDERDRAIN_W/PIPE	STD_945-20-01	BLD	BOLLARDS
STD_925-01	TDS	TYPICAL_DITCH_SECTIONS	STD_950-01	SNM	SIGNS_&_MARKERS
STD_926-01	BRM	BERMS	STD_951-01	LIN	LOCATION_&_INFORMATION
STD_927-10-01	DD1	DRAIN_DIP	STD_951-02	SPI	SIGN_&_POST_INSTALLATION
STD_927-10-02	DD2	DRAIN_DIP	STD_952-01	RTM	ROUTE_MARKERS
STD_928-10-01	CKD	CHECK_DAM	STD_953-01	RSW	REASSURANCE_MARKER
STD_931-10-01	SW1	SWITCHBACK_TYPE_1	STD_955-01	RCC	ROCK_CARNL_CONSTRUCTION
STD_931-20-01	SW2	SWITCHBACK_TYPE_2	STD_981-01	SMF	SEEDING_MULCHING_&_FERTILIZING
STD_931-30-01	SW3	SWITCHBACK_TYPE_3			

NOTES:

1. TRAIL LOCATION FOR NEW CONSTRUCTION AS STAKED IN THE FIELD.
2. CULVERT LOCATION AND SKEW AS STAKED IN THE FIELD.
3. DRAIN DIPS AS STAKED IN THE FIELD.

PROJECT NAME & LOCATION

YOUR PROJECT NAME
YOUR FOREST NAME
YOUR DISTRICT NAME

DRAWING NAME

GENERAL NOTES

SECTION

900 - GENERAL

TYPICAL ID

GNT

REVISION DATE

XX/XX/XX**NO SCALE**

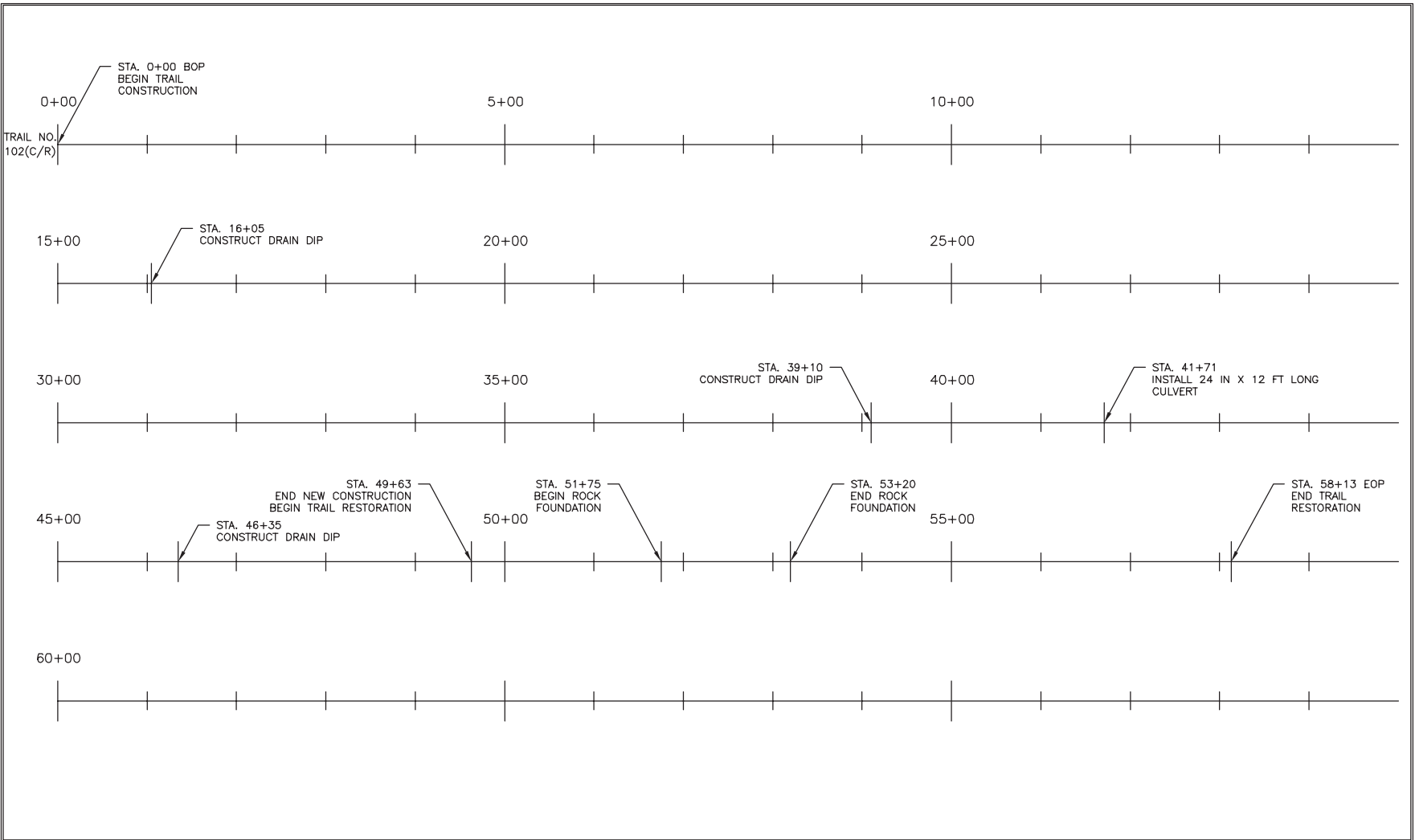
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STD_900-03

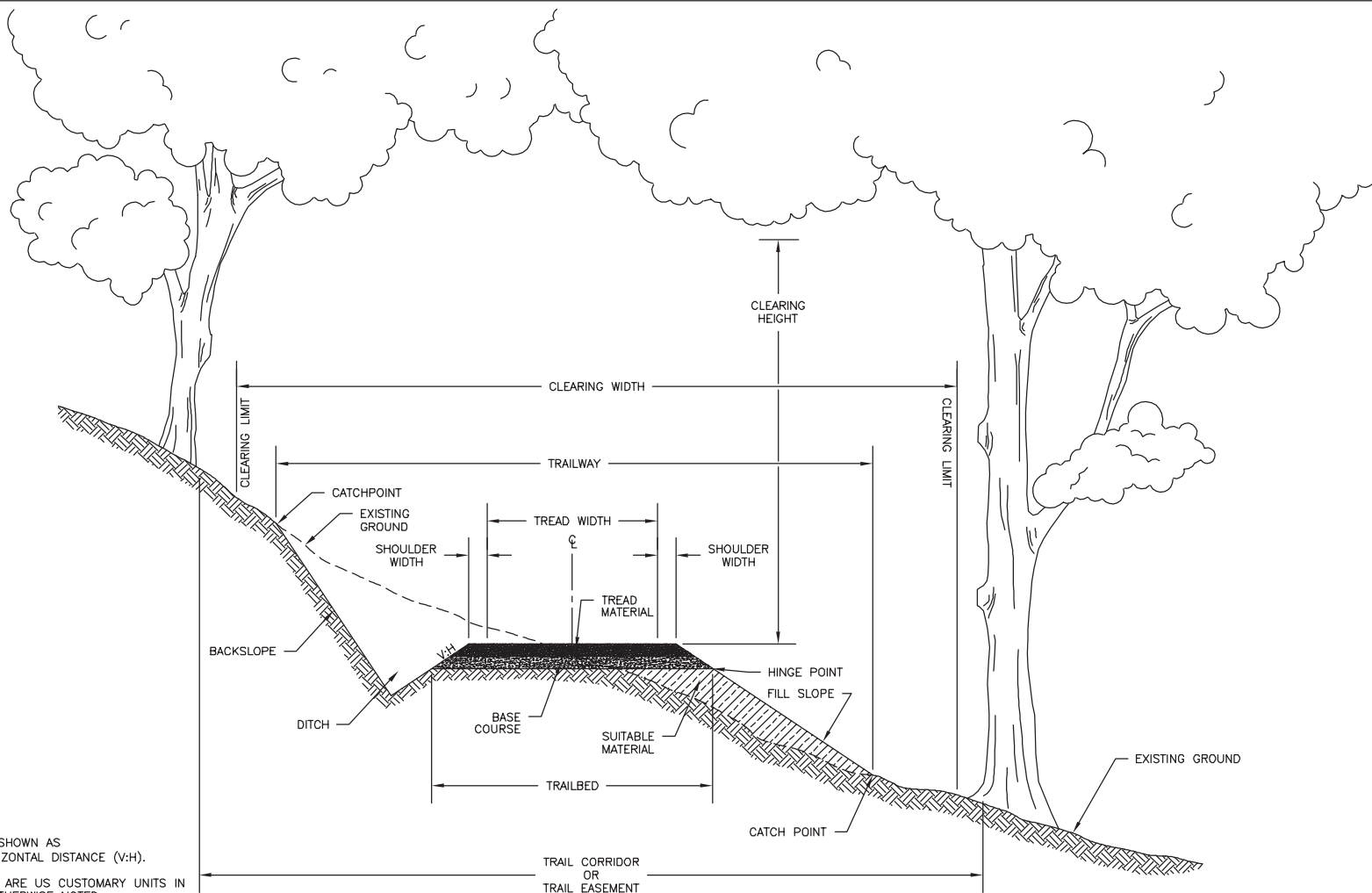
SHEET

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[illegible]



[illegible]



NOTES:

ALL SLOPES ARE SHOWN AS
VERTICAL-TO-HORIZONTAL DISTANCE (V:H).

ALL UNITS SHOWN ARE US CUSTOMARY UNITS IN
INCHES UNLESS OTHERWISE NOTED.



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

STANDARD TRAIL PLAN

PROJECT NAME & LOCATION

YOUR PROJECT NAME
YOUR FOREST NAME
YOUR DISTRICT NAME

DRAWING NAME

STANDARD TRAIL TERMS

SECTION

910 - TRAILWAY

TYPICAL ID

STT

REVISION DATE

XX/XX/XX

NOT TO SCALE

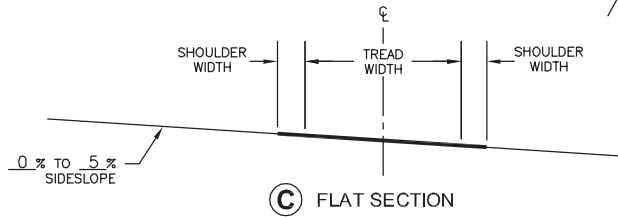
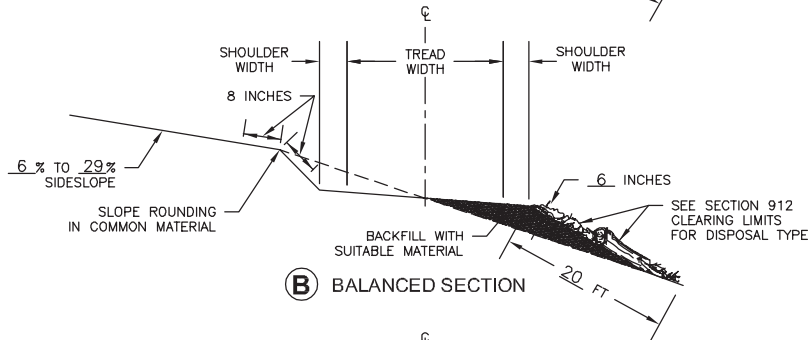
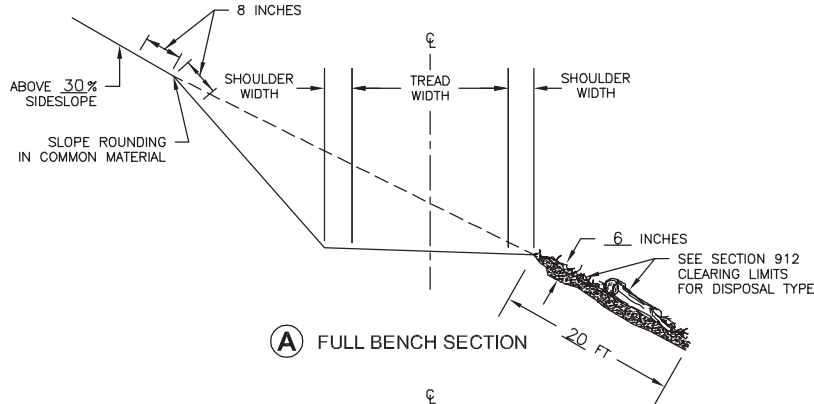
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STD_910-01

SHEET

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TYPICAL TRAIL CROSS SECTIONS



TYPICAL TRAIL TREAD AND SHOULDER WIDTH

TYPICAL ID	SECTION TYPE	TREAD FINISH	TREAD WIDTH	SHOULDER WIDTH		COMMENTS
				UPHILL	DOWNHILL	
TSF-1	B	T1	24 IN	12 IN	12 IN	HIKING USE
TSF-2	A	T2	18 IN	6 IN	6 IN	MOUNTAIN BIKE USE
TSF-3	C	T2	48 IN	12 IN	12 IN	OHV USE

TREAD CROSS SLOPE

TYPICAL ID	OUTSLOPE	INSLOPE	CROWNED SECTION	COMMENTS
TCS-1	3%	NA	NA	TYPICAL UNLESS OTHERWISE STAKED

SLOPE AND TRAILBED FINISH

TREAD FINISH	ROOTS	LOOSE ROCK	EMBEDDED ROCK	COMMENTS
T1	1	1	1	TRAIL CLASS 4
T2	3	3	3	
T3				
T4				
T5				
T6				

TRAILBED AND SLOPE FINISH

SLOPE FINISH

REMOVE ROOTS THAT PROTRUDE FROM THE BACKSLOPE WITH DIAMETERS GREATER THAN SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE.

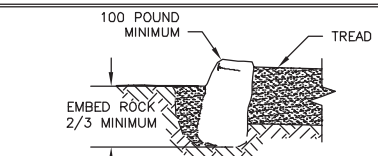
TRAILBED FINISH

REMOVE LOOSE ROCK ON THE TRAILBED WITH A DIMENSION GREATER THAN SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE.

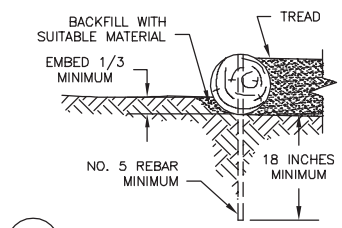
REMOVE OR REDUCE EMBEDDED ROCK THAT PROTRUDES MORE THAN THE DIMENSIONS SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE.

NOTES:

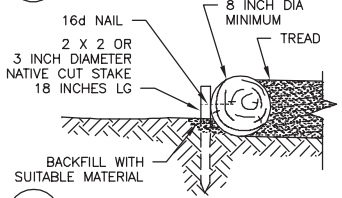
- SLASH CONSISTS OF LOGS, LIMBS, BRUSH, AND ROCKS PLACED RANDOMLY IN A WAY TO CATCH SEDIMENT MOVEMENT.
- LIMB ALL TREES AND SHRUBS AND TAMP SLASH INTO GROUND SO THAT 80% OF SLASH IS IN CONTACT WITH THE GROUND.



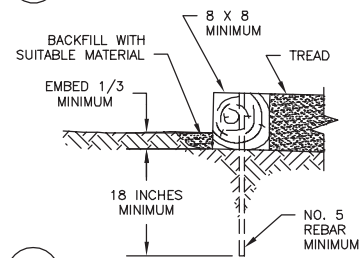
R1 TYPICAL ROCK RETAINER



R2a TYPICAL LOG RETAINER



R2b TYPICAL LOG RETAINER

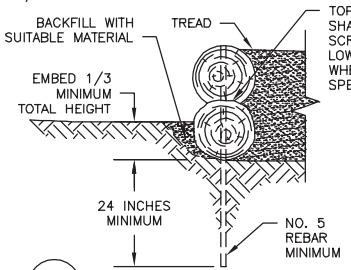


R3a TYPICAL TIMBER RETAINER

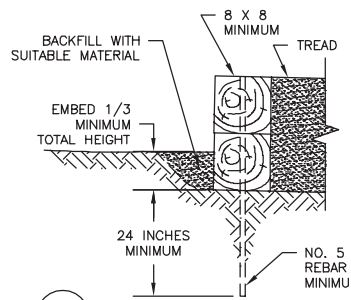
TYPICAL RETAINER TYPE

RETAINER TYPE	MATERIAL	SIZE	SPECIES/ GRADE	PRESERV. TYPE	JOINT TYPE	COMMENTS
R1	ROCK					
R2a	LOG	8 IN	OAK	NA	L 1	USE LOCAL NATIVE TREES
R2b	LOG					
R2c	LOG					
R3a	SAWN TIMBER	6X6	SP/#2	P 1	L 2	
R3b	SAWN TIMBER					
R3c	RAIL ROAD TIES					
	X					
	X					
	X					
	X					

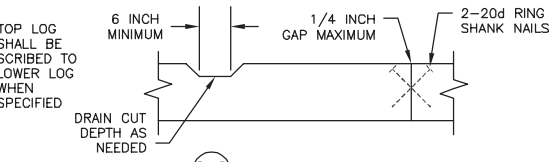
N/A WHEN NOT APPLICABLE



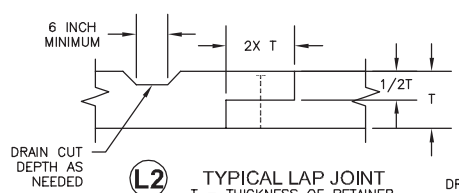
R2c TYPICAL STACKED LOG RETAINER



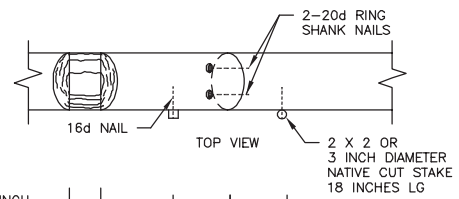
R3b TYPICAL STACKED TIMBER RETAINER



L1 TYPICAL BUTT JOINT



L2 TYPICAL LAP JOINT
T = THICKNESS OF RETAINER



L3 TYPICAL SCARF JOINT
T = THICKNESS OF RETAINER

NOTES:

- PRE-DRILL HOLES FOR REBAR TO PREVENT SPLITTING OF LOGS OR SAWN TIMBERS. RECESS END OF REBAR 1/2 INCH BELOW TOP OF TIMBER.
- PLACE REBAR, ANCHOR BOLT OR STAKE 6 INCHES FROM EACH END OF TIMBER WITH MAXIMUM SPACING OF 36 INCHES. FOR STACKED RETAINERS STAGGER JOINTS 24 INCHES MINIMUM.
- COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
- ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.
- REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.

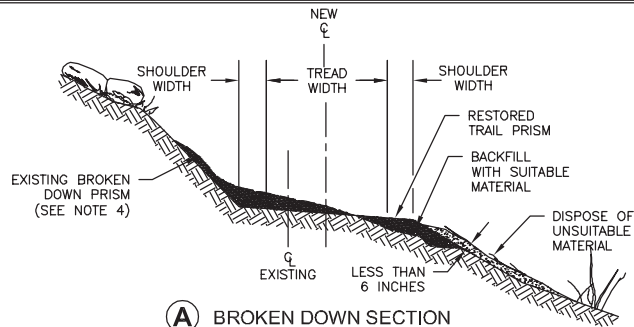
PRESERVATIVE TREATMENT - (REFER TO AWPA USE CATEGORY SYSTEM)			
PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	X
P2	WB	UC3B	
P3	XX	XXXX	

TREATMENT TYPE

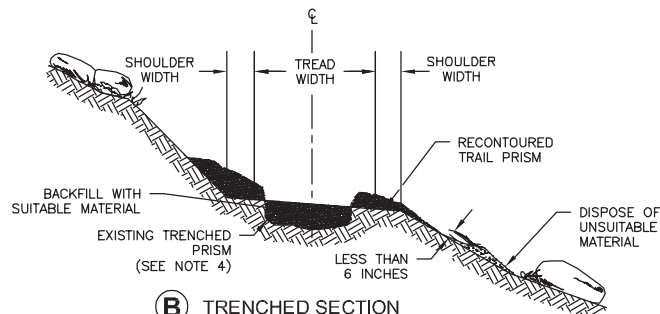
WB = WATERBORNE
OT = OIL-BORNE

USE CATEGORY

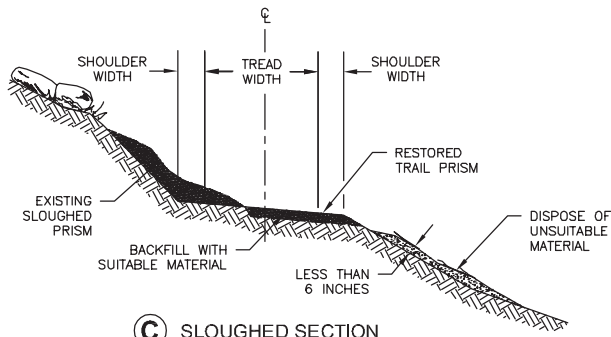
UC3B = ABOVE GROUND - EXPOSED
UC4A = GROUND CONTACT - GENERAL USE
UC4B = GROUND CONTACT - HEAVY DUTY



A BROKEN DOWN SECTION



B TRENCHED SECTION

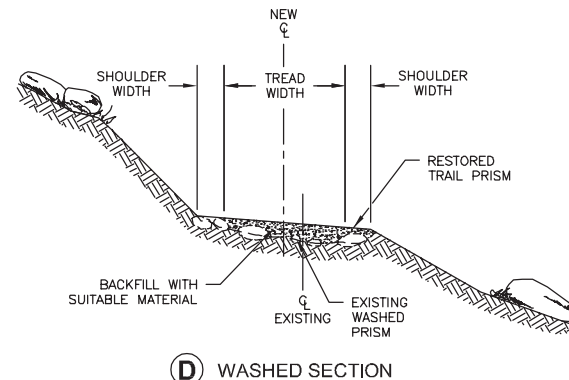


C SLOUGHED SECTION

EXISTING TRAIL RESTORATION					
TYPICAL ID	SECTION TYPE	TREAD WIDTH	SHOULDER WIDTH		COMMENTS
			UPHILL	DOWNHILL	
ETR-1	ALL	48 IN	12 IN	12 IN	OHV USE
ETR-2	B	24 IN	12 IN	12 IN	HIKING USE

NOTES:

1. RE-ESTABLISH ORIGINAL DRAINAGE STRUCTURES TO MATCH NEW TREAD SURFACE.
2. INSTALL CHECK DAMS, DRAINAGE DIPS OR OTHER DRAINAGE STRUCTURES WHEN SPECIFIED.
3. DRAINAGE DIPS WILL BE STAKED IN THE FIELD WHEN REQUIRED AND WILL BE PAID SEPARATELY UNDER SECTION 927.
4. USE ONLY SUITABLE MATERIAL TO CONSTRUCT RESTORED TRAIL PRISMS. DISPOSE OF UNSUITABLE MATERIAL AS SHOWN ON PLANS.
5. SEEDING, FERTILIZING & MULCHING WHEN REQUIRED WILL BE PAID UNDER SECTION 981.



D WASHED SECTION

CLEARING LIMITS - TREES AND LOGS

TYPICAL ID	CLEARING METHOD	CLEARING LIMITS			* LEAVE TREES		CLEAR ZONE			STUMPS	HAZARD TREE		COMMENTS
		DOWNHILL WIDTH (A)	UPHILL WIDTH (B)	CLEARING HEIGHT (C)	DISTANCE (FEET) (D)	DIAMETER (INCHES)	DOWNHILL WIDTH (E)	UPHILL WIDTH (F)	OBSTRUCTION MAXIMUM HEIGHT (G)	MAXIMUM HEIGHT (H)	REMOVAL WIDTH (I)	DISPOSAL METHOD	
CLT-1	C 1	5 FT	5 FT	8 FT	2 FT	10 IN	24 IN	24 IN	8 IN	9 IN	45 FT	D 3	HIKING USE
CLT-2	C 2	5 FT	5 FT	8 FT	2 FT	10 IN	24 IN	24 IN	8 IN	9 IN	45 FT	D 3	HIKING USE
CLT-3	C 2	10 FT	10 FT	10 FT	5 FT	10 IN	48 IN	48 IN	3 IN	9 IN	45 FT	D 1	OHV USE

CLEARING METHOD

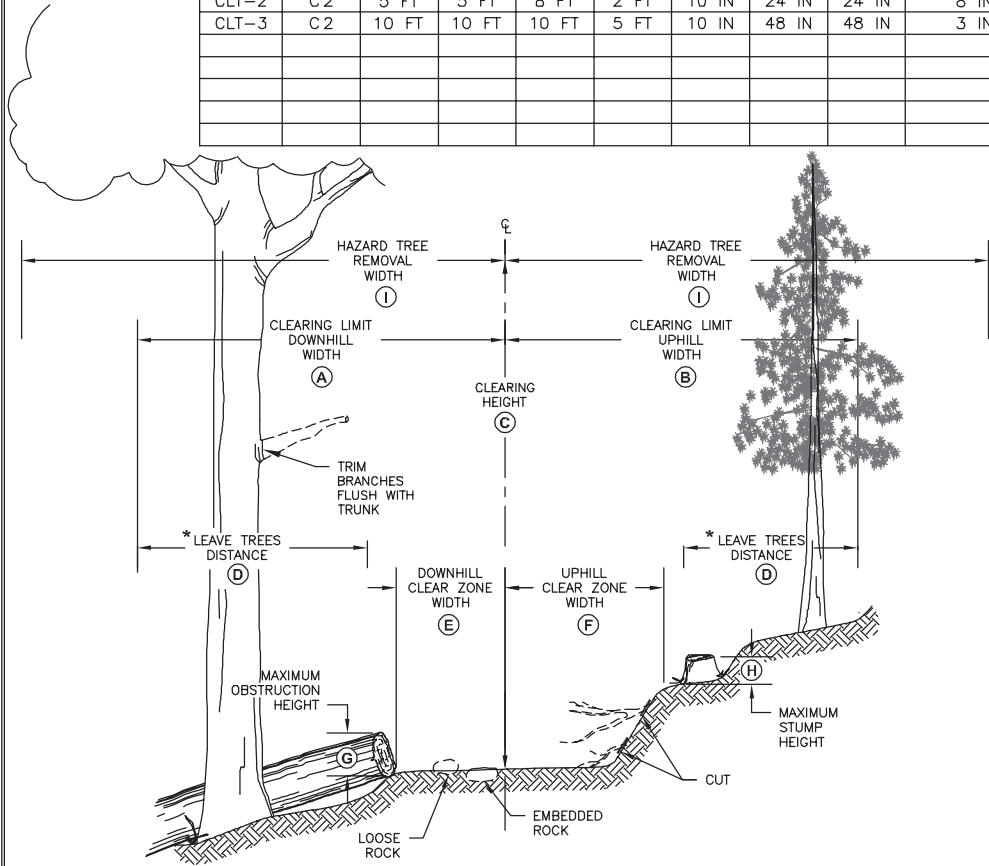
CLEARING TYPE	CLEARING METHOD	COMMENTS
C1	NEW CONSTRUCTION	TREES, PRUNING, & BRUSH
C2	CLEARING LIMIT RESTORATION	TREES, PRUNING, LOGS, BRUSH & MAINTENANCE
C3	TRAIL OPENING	LOGGING OUT, LOOSE ROCK & DRAINAGE CLEARING
C4	HAZARD TREE REMOVAL	ALONG TRAIL CORRIDOR
C5	HAZARD TREE REMOVAL	INDIVIDUAL (AS MARKED)
C6	LOOSE ROCK & ROOT REMOVAL	X
C7	X	X

LEAVE TREES: LEAVE TREES SHOULD BE LIVE, SOUND & UNDAMAGED WITH UNCOMPROMISED ROOT SYSTEMS.

HAZARD TREES: HAZARD TREES ARE TREES THAT ARE STANDING OR LEANING DEAD TREES LARGER THAN 8 INCHES IN DIAMETER AND GREATER THAN 90 FEET IN HEIGHT.

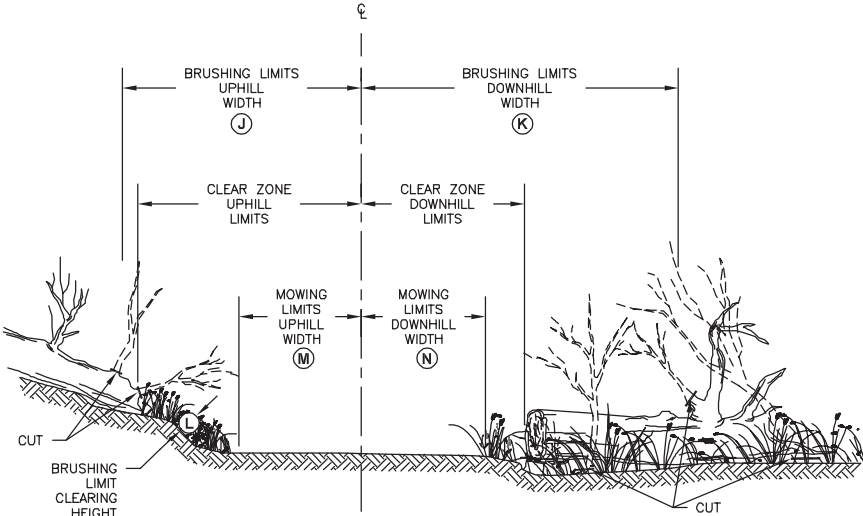
DISPOSAL METHOD

DISPOSAL TYPE	DISPOSAL METHOD	COMMENTS
D1	LOP AND SCATTER OUTSIDE TRAILWAY	X
D2	LOP AND SCATTER ON FILL SLOPE	
D3	PILE AND BURN	
D4	CHIP	
D5	HAUL TO DISPOSAL SITE	
D6	X	



CLEARING LIMITS - BRUSHING

TYPICAL ID	CLEARING METHOD	BRUSHING LIMITS			MOWING LIMITS		DISPOSAL METHOD	COMMENTS
		UPHILL WIDTH (J)	DOWNHILL WIDTH (K)	CLEARING HEIGHT (L)	UPHILL WIDTH (M)	DOWNHILL WIDTH (N)		
CLB-1	C 9/10	5 FT	5 FT	8 FT	24 IN	24 IN	D 1	HIKING USE
CLB-2	C 9/10	10 FT	10 FT	10 FT	48 IN	48 IN	D 1	OHV USE



NOTE:
SEE SHEET STD_912-01 FOR
CLEAR ZONE LIMITS

CLEARING METHOD

CLEARING TYPE	CLEARING METHOD	COMMENTS
C9	BRUSHING	X
C10	MOWING	
C11	X	

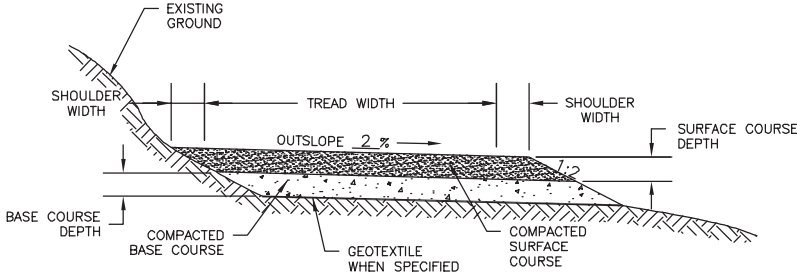
DISPOSAL METHOD

DISPOSAL TYPE	DISPOSAL METHOD	COMMENTS
D1	LOP AND SCATTER OUTSIDE TRAILWAY	X
D2	LOP AND SCATTER ON FILL SLOPE	
D3	PILE AND BURN	
D4	CHIP	
D5	HAUL TO DISPOSAL SITE	
D6	X	

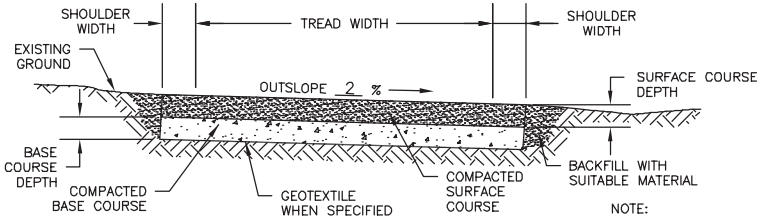
SURFACING SECTIONS

TYPICAL ID	SECTION TYPE	TREAD WIDTH	SHOULDER WIDTH		GEOTEXTILE TYPE	BASE COURSE		SURFACE COURSE		COMMENTS
			UPHILL	DOWNHILL		TYPE	DEPTH	TYPE	DEPTH	
TSS-1	B	24 IN	12 IN	12 IN	YES	B 1	6	S 2	6 IN	HIKING USE-GEOTEXTILE-NON-WOVEN
TSS-2	A	18 IN	6 IN	6 IN	NA	B 1	6	S 2	6 IN	MOUNTAIN BIKE USE
TSS-3	C	48 IN	12 IN	12 IN	NA	B 1	6	S 2	6 IN	OHV USE

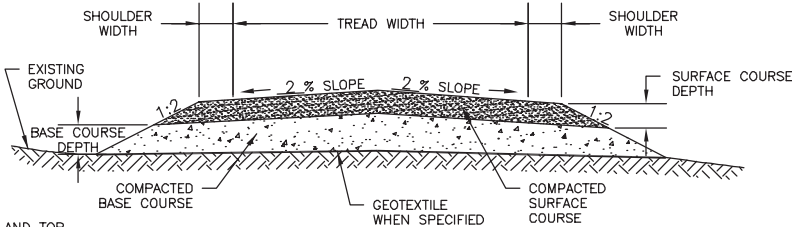
N/A WHEN NOT APPLICABLE



A OUTSLOPED SECTION



B EXCAVATED SECTION



C RAISED SECTION

BASE COURSE MATERIAL TYPE

TYPE	MATERIAL	GRADATION	COMMENTS
B1	PITRUN	3" MINUS	NATIVE MATERIAL SOURCE
B2	AGGREGATE	X	
B3	X	X	

SURFACE COURSE MATERIAL TYPE

TYPE	MATERIAL	GRADATION	COMMENTS
S1	PITRUN	X	X
S2	AGGREGATE	1" MINUS	COMMERCIAL SOURCE
S3	CLAY	X	
S4	WOODCHIPS	X	
S5	X	X	

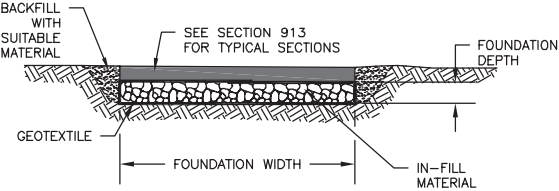
- NOTE:
1. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.
 2. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.



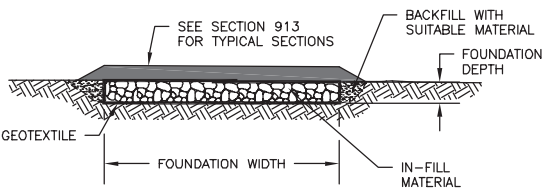
ROCK FOUNDATIONS

TYPICAL ID	SECTION TYPE	GEOTEXTILE TYPE	FOUNDATION			RETAINER*	COMMENTS
			DEPTH	WIDTH	IN-FILL MATERIAL TYPE	TYPE	
RKF-1	C	G 1	12 INCH	36 IN	FM3	R3a	X

N/A WHEN NOT APPLICABLE
*FOR TYPICAL RETAINERS SEE SHEET STD_911-03

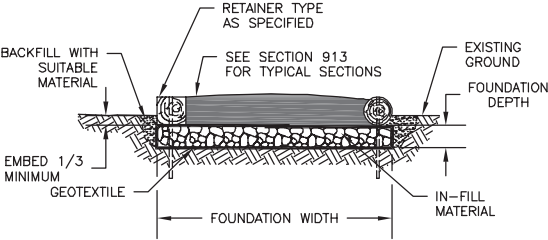


A EXCAVATED SECTION



B RAISED SECTION

- NOTE:
1. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.
 2. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
 3. OVERLAP GEOTEXTILE A MINIMUM OF 12 INCHES AT CENTER AND AT ENDS.
 4. A 6 INCH MINIMUM COVER IS REQUIRED OVER ALL GEOTEXTILE AND GEOCELL FOUNDATIONS.



C RETAINER SECTION

GEOTEXTILE TYPE

TYPE	MATERIAL	COMMENTS
G1	NON-WOVEN	X
G2	WOVEN	
G3	X	

TYPE	MATERIAL	ROCK SIZE	GRADATION %	COMMENTS
FM1	AGGREGATE	1 INCH MINUS	X	
FM2	COARSE AGGREGATE	3 INCH MINUS	X	
FM3	ROCK	3 TO 6 INCH	X	GABION ROCK
FM4	ROCK	4 TO 8 INCH	X	
FM5	HEAVY ROCK	8 INCH PLUS	X	
FM6	X	X	X	



PROJECT NAME & LOCATION

YOUR PROJECT NAME
YOUR FOREST NAME
YOUR DISTRICT NAME

DRAWING NAME

ROCK FOUNDATIONS

SECTION

918 - FOUNDATIONS

TYPICAL ID

RKF

REVISION DATE

XX/XX/XX

NO SCALE

DRAWING NO.

STD_918-10-01

SHEET

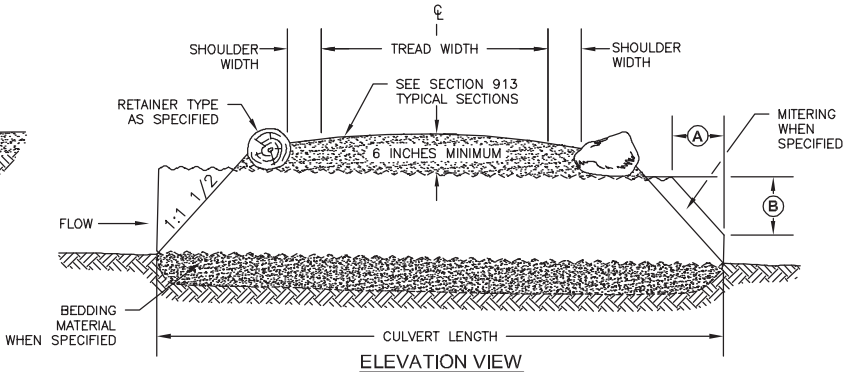
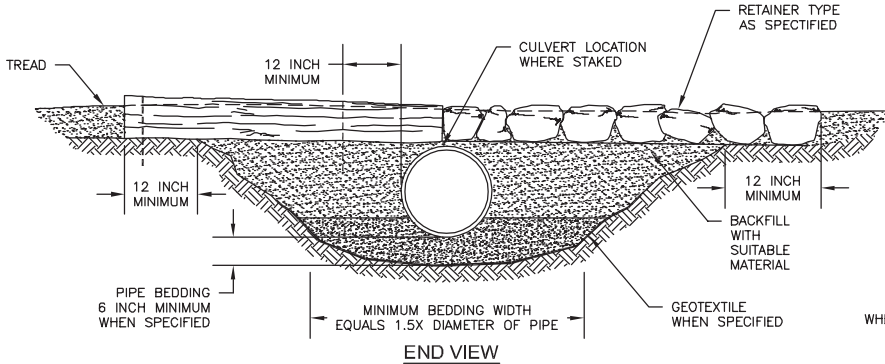
14

OF 19

STANDARD CULVERT

[illegible]

N/A WHEN NOT APPLICABLE
*FOR TYPICAL RETAINERS SEE SHEET STD_911-03



CULVERT TYPE

TYPE	MATERIAL	COMMENTS
C1	CMP — GALV	X
C2	HDPE	
C3	PLASTIC	
C4	ALUMINUM	
C5	CONCRETE	
C6	X	

NOTE:

1. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
2. NO ROCKS LARGER THAN 1 1/2 INCHES WITHIN 12 INCHES OF PIPE.

BEDDING MATERIAL TYPE

TYPE	MATERIAL	GRADATION	COMMENTS
B1	PITRUN	3" MINUS	NATIVE MATERIAL
B2	AGGREGATE	X	
B3	X	X	

DRAIN DIP SECTION

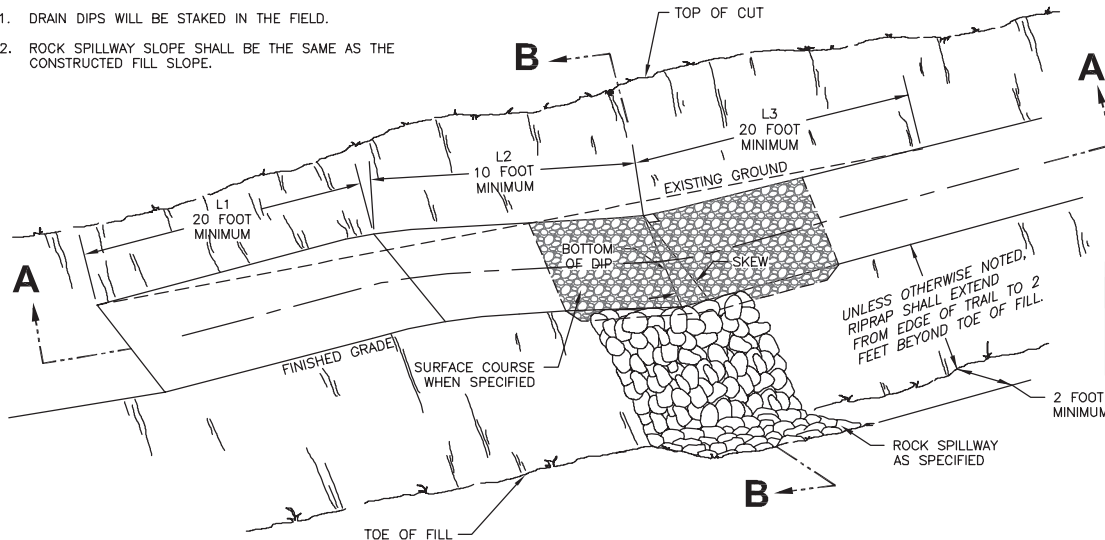
TYPICAL ID	DRAIN DIP TYPE	GEOTEXTILE TYPE	SKEW	SURFACE COURSE		ROCK SPILLWAY***	COMMENTS
				TYPE	DEPTH		
DD1-1	DD1	NA	30 DEG	S 1	6 IN	NA	

N/A WHEN NOT APPLICABLE

***FOR ROCK SPILLWAY SEE SHEET STD_923-10-01

NOTES:

1. DRAIN DIPS WILL BE STAKED IN THE FIELD.
2. ROCK SPILLWAY SLOPE SHALL BE THE SAME AS THE CONSTRUCTED FILL SLOPE.



GEOTEXTILE TYPE

TYPE	MATERIAL	COMMENTS
G1	NON-WOVEN	
G2	WOVEN	
G3		

SURFACE COURSE MATERIAL TYPE

TYPE	MATERIAL	GRADATION	COMMENTS
S1	PITRUN	1" MINUS	NATIVE MATERIAL
S2	AGGREGATE	X	
S3	X	X	

DRAIN DIP CONSTRUCTION DIMENSIONS

DRAIN DIP TYPE	% PROFILE GRADE	L1	L2	L3	(H)	(E)
DD1	0 TO 4	20 FT	10 FT	20 FT	12 IN	NA
DD2	5 TO 6					
DD3	7 TO 8					
DD4	9 TO 10					
DD5	X					

OVER 10% NOT RECOMMENDED
H = $\frac{1}{2}$ OF TREAD

SHEET 1 OF 2

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
STANDARD TRAIL PLAN

PROJECT NAME & LOCATION

YOUR PROJECT NAME
YOUR FOREST NAME
YOUR DISTRICT NAME

DRAWING NAME

DRAIN DIP

SECTION

927 - DRAIN DIPS

TYPICAL ID

DD1

REVISION DATE

XX/XX/XX

NO SCALE

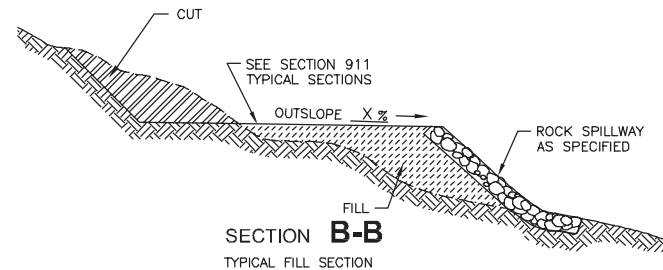
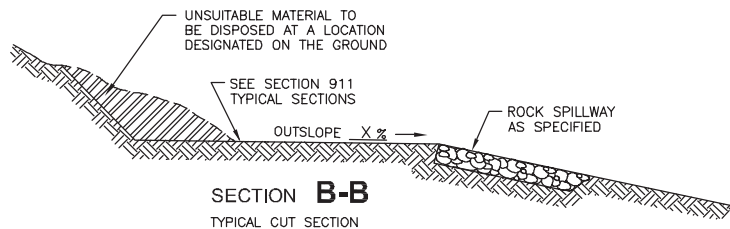
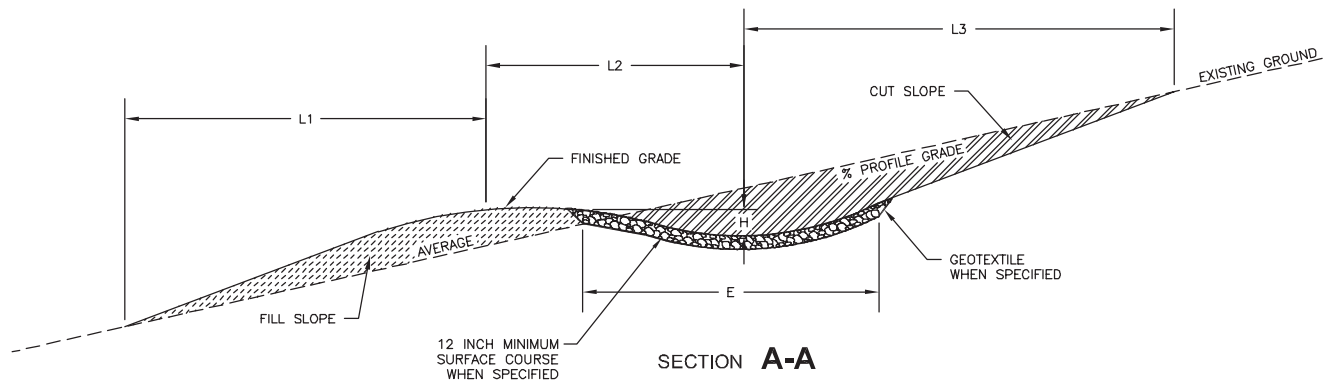
DRAWING NO.

STD_927-10-01

SHEET

16 OF 19

CL
FLOOD LINE



SHEET 2 OF 2

PROJECT NAME & LOCATION

YOUR PROJECT NAME
YOUR FOREST NAME
YOUR DISTRICT NAME

DRAWING NAME

DRAIN DIP DETAILS

SECTION

927 - DRAIN DIPS

TYPICAL ID

DD2

REVISION DATE

XX/XX/XX

NO SCALE

DRAWING NO.

STD_927-10-02

SHEET

17

OF

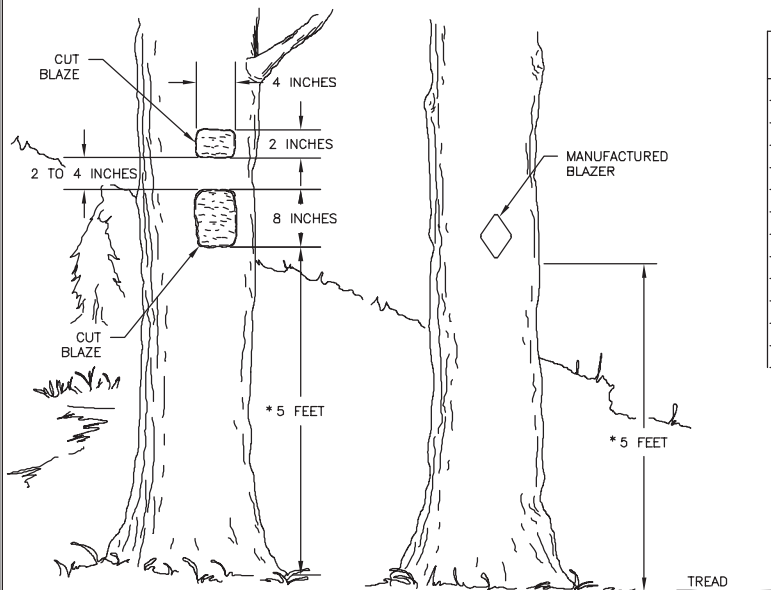
19

[illegible]

L	LEFT SIDE
R	RIGHT SIDE
BOTH	BOTH SIDES

FR	FRONT SIDE
BA	BACK SIDE
BOTH	BOTH SIDES

TR	TREE
WP	WOOD POST
SP	STEEL POST
FP	FLEXIBLE POST



P

TYPICAL CUT BLAZE

Q

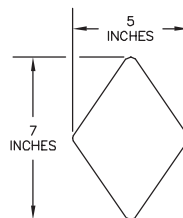
TYPICAL MANUFACTURED BLAZER

PAINTED AND SCRIBED BLAZES NOT SHOWN FOR CLARITY

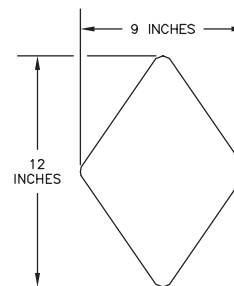
* MINIMUM MOUNTING HEIGHT FOR HIKER/PEDESTRIAN, PACK AND SADDLE, BICYCLE AND OHV.

NOTES:

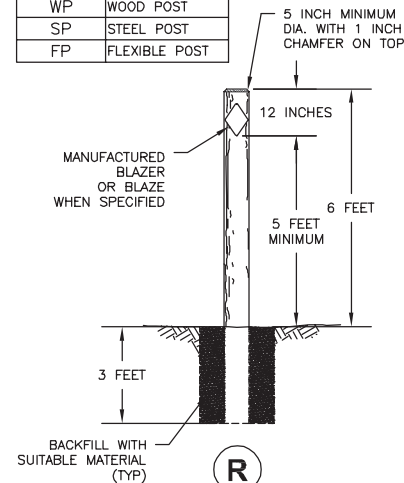
1. REFER TO "EM-7100-15 SIGN AND POSTER GUIDELINES, FOR THE FS" FOR SIGN SPECIFICATIONS, MATERIALS, AND PLACEMENT.
2. CUT BLAZE NO DEEPER THAN NECESSARY FOR CLEAR VISIBILITY. CUT ON BOTH SIDES, VISIBLE FROM BOTH DIRECTIONS.
3. REFER TO EM 7100-15 FOR BLAZER COLOR.



TB-1
MANUFACTURED
BLAZER

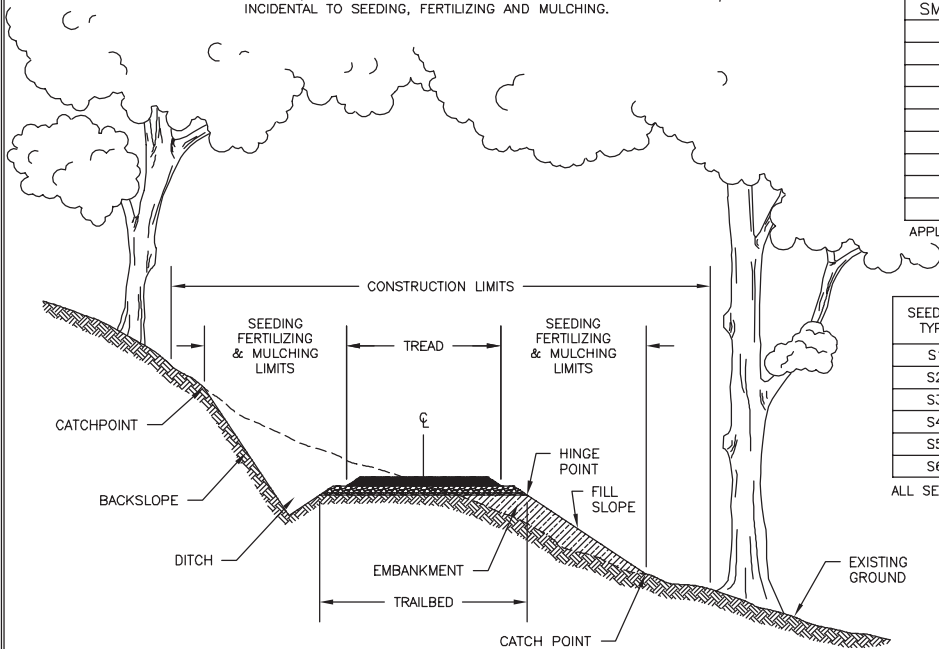


TB-2
MANUFACTURED
BLAZER

REASSURANCE MARKER
SUPPORT WITH BLAZE(R)

APPLICATION OF SEED, FERTILIZER & MULCH

NOTE: CONTRACTOR SHALL SEED, FERTILIZE AND MULCH ANY DISTURBED AREA THAT WAS CAUSED BY CONTRACTORS OPERATION, OUTSIDE SEEDING, FERTILIZING AND MULCHING LIMITS. THIS WORK SHALL BE INCIDENTAL TO SEEDING, FERTILIZING AND MULCHING.



APPLICATION TYPE

- A
SEEDING

D
SEEDING AND FERTILIZING
- B
SEEDING & MULCHING

E
MULCHING
- C
SEEDING, FERTILIZING AND MULCHING

F
EROSION CONTROL BLANKET

TYPICAL ID	APPLICATION TYPE	SEEDING TYPE	FERTILIZING TYPE	MULCHING TYPE	APPLICATION SEASON	APPLICATION METHOD	TOTAL NO. APPLICATIONS
SMF-1	A	S 1	NA	NA	FALL	H	1

APPLICATION METHOD: H = HAND SPREAD M = MECHANICAL SPREAD

SEED

SEEDING TYPE	SPECIES OR SEED MIXTURE	PURITY	GERMINATION	APPLICATION RATE (LB/ACRE)	WEED CONTENT	CROP SEEDS	INERT MATTER	ORIGIN
S1	NATIVE	95 %	95 %	1 LB/ACRE	>0.1%	25 %	75 %	COMM
S2								
S3								
S4								
S5								
S6								

ALL SEED TO BE CERTIFIED WEED FREE

FERTILIZER

FERTILIZING TYPE	APPLICATION RATE (LB/ACRE)	NUTRIENT	NUTRIENT			NO. OF APPLICATIONS
			NITROGEN, N	PHOSPHORUS P2O5	POTASSIUM	
F1	X	X %	X %	X %	X %	X
F2						
F3						

MULCH

MULCHING TYPE	TYPE	APPLICATION RATE (TONS/ACRE)
M1	X	X
M2		
M3		

ALL MULCHING MATERIAL TO BE CERTIFIED WEED FREE