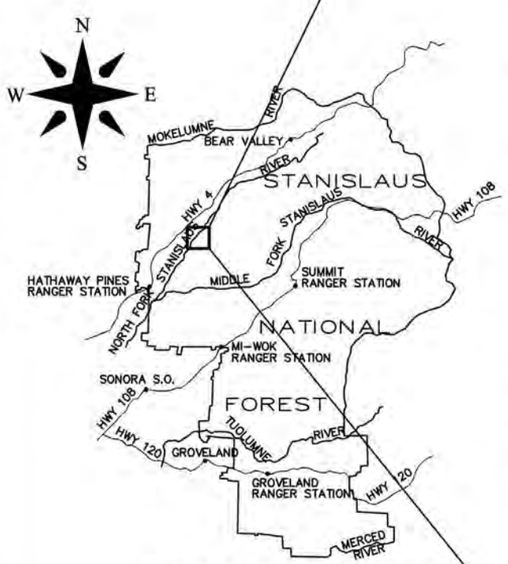
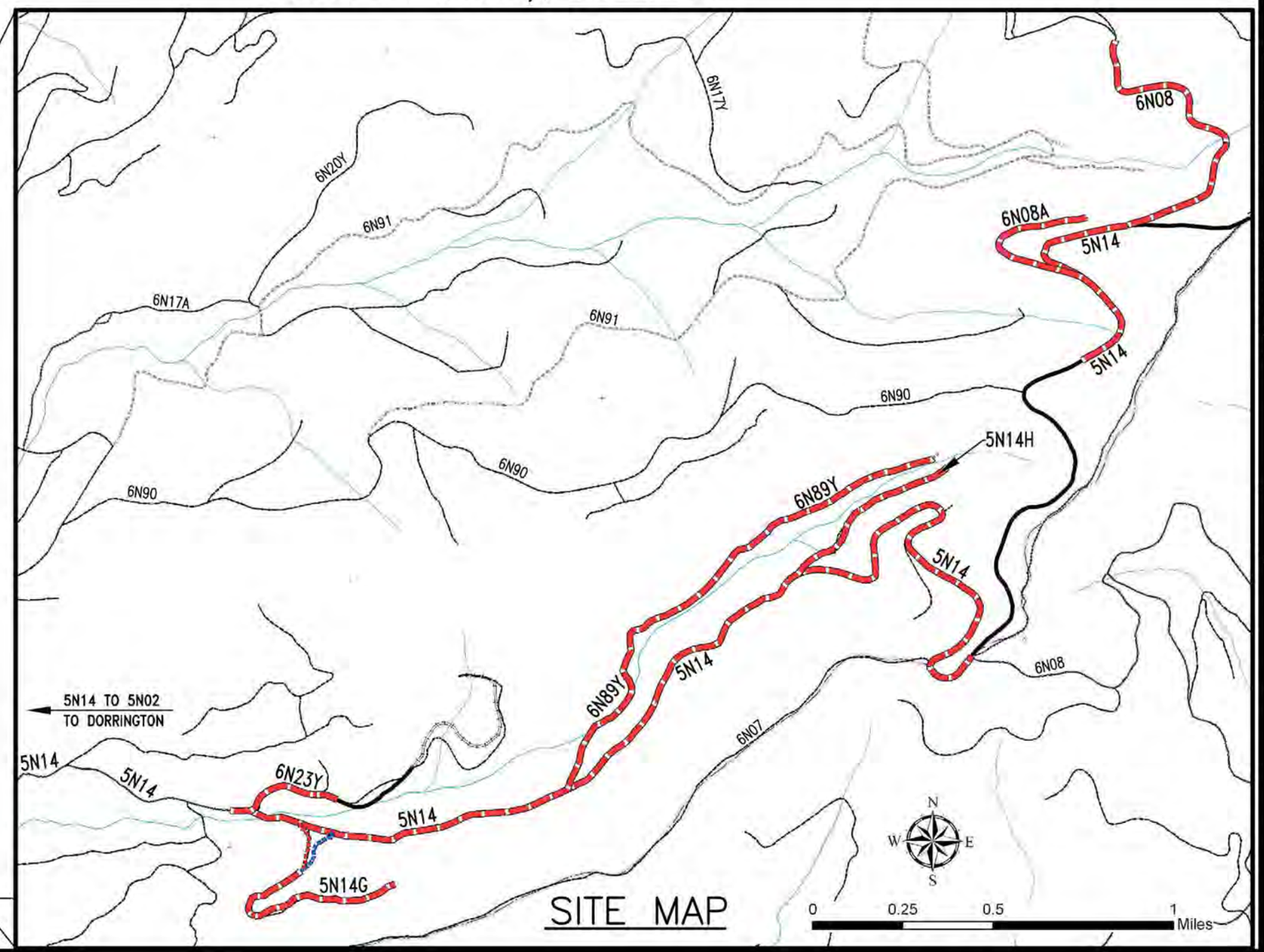
UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION FIVE
STANISLAUS NATIONAL FOREST
DRAWINGS FOR PROPOSED
SOUTH MEDUSA STEWARDSHIP
Tuolumne County, California

STATE OF CALIFORNIA
INDEX MAP – N.T.S.



STANISLAUS NATIONAL FOREST
INDEX MAP – N.T.S.



SITE MAP

INDEX to SHEET

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2	NOTES
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10–12	RECONSTRUCTION, DECOMISSION, AND CLOSURE OF ROAD NO. 5N14G
13–14	RECONSTRUCTION AND CLOSURE OF ROAD NO. 5N14H
15	RECONSTRUCTION OF ROAD NO. 6N08
16	RECONSTRUCTION AND CLOSURE OF ROAD NO. 6N08A
17	RECONSTRUCTION OF ROAD NO. 6N23Y
18–21	RECONSTRUCTION AND CLOSURE OF ROAD NO. 6N89Y
22	REALIGNMENT OF ROAD NO. 5N14G
23–25	6N89Y-LITTLE RATTLESNAKE STREAM CROSSING DECOMMISSION DETAILS AND TYPICALS
26–36	GENERAL TYPICALS

REVISIONS

NO	DESCRIPTION	DATE	SIGNED
1	ALL PLACEMENT OF AGG SURFACE COURSE ON 5N14 MADE OPTIONAL	9/20/12	

GOVERNING SPECIFICATIONS
"STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS" FP-03 U.S. CUSTOMARY UNITS, SHALL GOVERN.

Drawn: D. ROMERO
Designed: D. ROMERO
Reviewed: R. CABLAYAN

Sheet Title: TITLE SHEET & VICINITY MAP
Scale: AS SHOWN
Forest: STANISLAUS
Project: SOUTH MEDUSA STEWARDSHIP

APPROVED BY:	DESIGNER	DISTRICT RANGER	FOREST ENGINEER	FOREST SUPERVISOR	Sheet 1 of 36
	DATE: 8/2/2012	DATE: 8/3/12	DATE: 8/2/2012	DATE: 8/3/12	

ABBREVIATIONS

AGG	AGGREGATE
BEG	BEGIN
BOP	BEGINNING OF PROJECT
CLR	CLEAR
CLVRT	CULVERT
CONST	CONSTRUCT OR INSTALL FEATURE
CW	CURVE WIDENING
CY	CUBIC YARDS
DWB	DRIVEABLE WATER BAR
EOP	END OF PROJECT
EX	EXISTING
FT	FOOT
INT	INTERSECTION
LF	LINEAR FOOT
LOD	LEAD OFF DITCH
MAINT	MAINTAIN EXISTING FEATURE
MES	METAL END SECTION
MTC	MAINTENANCE
REM	REMOVE
RRD	RIPRAP DRAINAGE
RRF	RIPRAP FILL
SHT	SHEET
WB	WATERBAR (NON–DRIVEABLE)

LOCATION & MILEAGE

WORK AREAS ARE LOCATED IN TUOLUMNE COUNTY, CALIFORNIA. FROM ANGELS CAMP, CALIFORNIA, TRAVEL APPROXIMATELY 25.5 MILES EAST ON STATE HIGHWAY 4 FROM HIGHWAY 49 AND TURN RIGHT ON BOARDS CROSSING RD. VEER LEFT TO STAY ON BOARDS CROSSING RD AND VEER LEFT AGAIN ON BOARDS CROSSING RD AFTER A SHORT DISTANCE. TRAVEL ON BOARDS CROSSING RD FOR 1.3 MILES AND VEER LEFT ONTO FOREST ROUTE 5N02. CONTINUE ON FOREST ROUTE 5N02 FOR ABOUT 5 MILES AND TURN LEFT ON FOREST ROUTE 5N14. TRAVEL ON FOREST ROUTE 5N14 FOR 4.3 MILES AND TURN RIGHT TO STAY ON FOREST ROUTE 5N14. CONTINUE ON FOREST ROUTE 5N14 FOR ANOTHER 1.1 MILES TO REACH THE PROJECT AREA.

THE PROJECT INVOLVES: RECONSTRUCTION AND MAINTENANCE OF FOREST ROADS 5N14, 5N14G, 5N14H, 6N08, 6N08A, 6N23Y, AND 6N89Y.

TOTAL ROADS MILEAGE IS APPROXIMATELY 8.73 MILES.

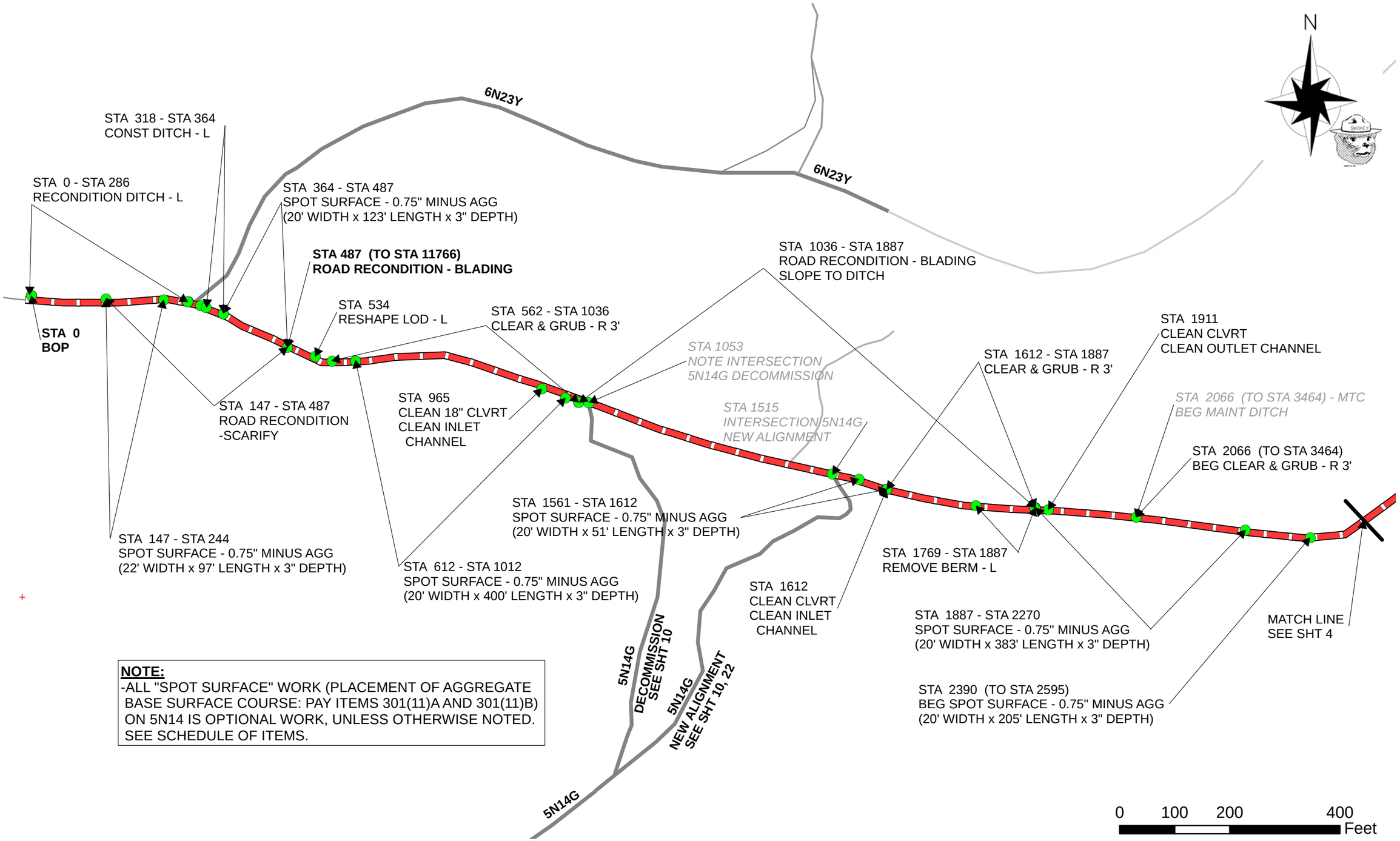
ROAD NO.	MILEAGE	ROAD NO.	MILEAGE	ROAD NO.	MILEAGE
5N14	3.97	6N08	0.93	6N23Y	0.27
5N14G	0.93	6N08A	0.53	6N89Y	1.50
5N14H	0.58				

SPECIAL NOTES

1. WORK ITEM LABELS ENDING WITH "-MTC" ARE NOT INCLUDED IN THE SCHEDULE OF ITEMS. THESE ITEMS REFER TO WORK INCLUDED IN THE MAINTENANCE REQUIREMENTS FOR TIMBER SALE CONTRACTS
2. THE WATER SOURCES ARE SHOWN ON THE CONTRACT AREA MAP LOCATED IN THE STEWARDSHIP CONTRACT. WATER SOURCES SHALL COMPLY WITH SECTION 891. WATERING IS INCIDENTAL TO ALL APPLICABLE FP-03 SECTIONS AND T803. THE PURCHASER IS TO CONSTRUCT A SUMP FILTER TO USE AT WATER SOURCE. AN EXAMPLE IS AVAILABLE AT THE GROVELAND DISTRICT OFFICE AS A TEMPLATE.
3. BACK OR EXCAVATION SLOPE RATIO IS 1:1 AND FILL OR EMBANKMENT RATIO IS 1.5:1. RECONDITIONING OF THE TRAVELED WAY SHALL BE SCARIFIED TO THE DEPTH INDICATED FOR ROADS. SEE FP-03 SECTION 303.
4. ANY TIMBER THAT HAS TO BE CUT TO PERFORM THIS CONTRACT SHALL BE DECKED AT LOCATIONS APPROVED BY THE FOREST SERVICE. ANY TREE CUT WITHIN THE CLEARING LIMITS ARE NOT INCLUDED IN THIS CONTRACT AND MAY NOT BE REMOVED BY THE PURCHASER.
5. TREATMENT AND DISPOSAL OF CLEARING DEBRIS SHALL COMPLY WITH SECTION 203.05. DECKING AREAS SHALL BE APPROVED PRIOR TO CLEARING. BOTH MERCHANTABLE AND UNMERCHANTABLE SHALL BE CUT TO APPROVED LENGTHS AS DIRECTED BY THE CONTRACTING OFFICER.
6. DEPOSIT CHIPPED OR GROUND WOODY MATERIAL ONLY ON FINISHED EMBANKMENT SLOPES AND AT APPROVED AREAS DESIGNATED BY THE PROJECT DRAWINGS, OR AS DIRECTED BY THE CONTRACTING OFFICER.
7. CLASS 2, 3, 4 AND 5 ROCK AND RIPRAP SHALL BE OBTAINED FROM AN APPROVED COMMERCIAL SOURCE.
8. AGGREGATE USED SHALL BE CERTIFIED TO BE NO MORE THAN 0.25% ASBESTOS PRESENT TO BE IN COMPLIANCE WITH CALIFORNIA HEALTH AND SAFETY CODE SECTIONS 93105 AND 93106 AND OBTAINED FROM AN APPROVED COMMERCIAL SOURCE. AGGREGATE PLACED ON 5N14, 5N14G, & 6N23Y ARE OPTIONAL WORK. ROAD RECONDITIONING SCARIFICATION ON 6N08 IS OPTIONAL WORK.
9. BEFORE ANY EXCAVATION ACTIVITIES BEGIN, THE PURCHASER SHALL CONTACT A SERVICE TO LOCATE ANY BURIED UTILITIES. USA = 1-800-227-2600 OR THE NATIONAL 811NUMBER OR THE WEBSITE HTTP://WWW.CALL811.COM/.
10. EQUIPMENT, FOR THIS PROJECT, IF DRIVEN ON STATE OR COUNTY ROADS SHALL BE CURRENTLY LICENSED.
11. THE PURCHASER SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CONTRACT OFFICER FOR APPROVAL PRIOR TO ANY WORK. THE TRAFFIC CONTROL PLAN SHALL CONTAIN AS A MINIMUM THE PROPOSED LOCATION OF ROAD CONSTRUCTION WARNING SIGNS. THE TEMPORARY TRAFFIC CONTROL PLAN IS INCIDENTAL TO OTHER PAY ITEMS.
12. SLASH REMOVAL WHERE SPECIFIED IN THE DRAWINGS IS INCIDENTAL TO T-807 AND PAY ITEM 201(05).
13. THE PURCHASER SHALL SUBMIT A WORK SCHEDULE FROM THEIR CONTRACTOR TO THE C.O.BEFORE START OF WORK. THE REMOVAL OF CULVERT AND CONSTRUCTION OF STREAM CROSSING ON 6N89Y SHALL BE DONE POST HAUL.
14. THE PURCHASER SHALL SUBMIT A SAFETY PLAN FROM THEIR CONTRACTOR TO C.O. BEFORE THE START OF WORK.
15. THE PURCHASER SHALL POST IN A CONSPICUOUS PLACE THE APPROPRIATE LABOR POSTERS PROVIDED BY THE FOREST SERVICE.

GENERAL NOTES:

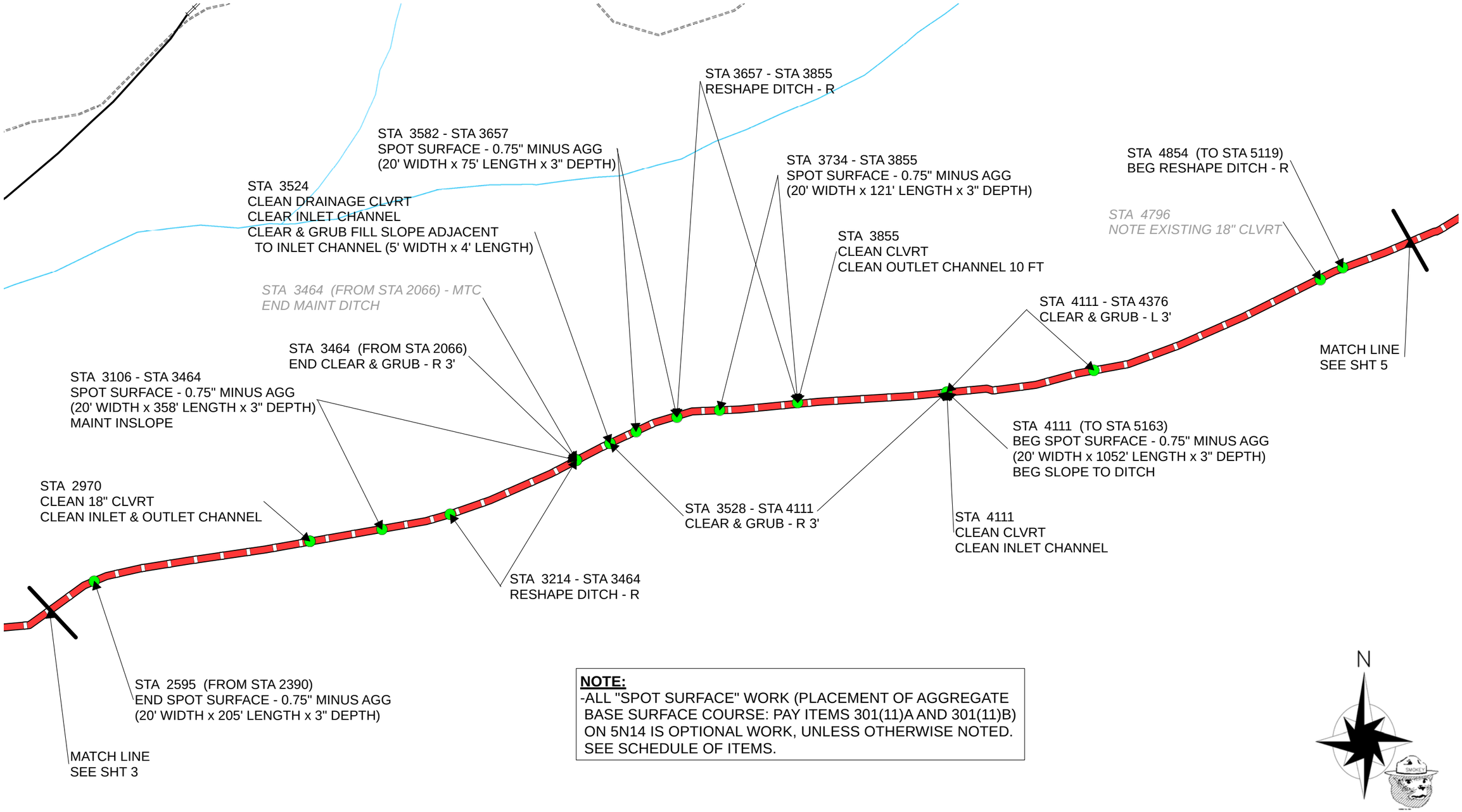
- UNLESS OTHERWISE SPECIFIED, NOTES APPLY TO ALL ROADS.
- SELECT CLEAR-ONLY TREES 10"D.B.H. OR LARGER TO BE CLEARED . TREES OF SMALLER DIAMETER AND BRUSH OF ANY SIZE SHALL ALSO BE CLEARED AS INDICATED IN SECTION T-807 AND ITS SUPPLEMENT.
- ALL CONSTRUCTION WORK IN THE SCHEDULE OF ITEMS, AS WELL AS DEFINED TERMS, SHALL RELATE TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-03).
- OUTSLOPE 3% UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- RECONSTRUCTION-WIDEN AS NECESSARY TO OBTAIN MIN. SPECIFIED WIDTH. CUT SLOPES SHALL CONFORM TO EXISTING GRADE.
- WATERBARS ARE TO BE CONSTRUCTED AT THE END OF EACH OPERATING SEASON.
- MAINTENANCE-SUITABLE MATERIAL (AS DEFINED IN THE FP03 STANDARD SPECIFICATION) REMOVED FROM DITCHES, ROADBED SLIDES AND CULVERT CATCH BASINS SHALL BE INCORPORATED INTO THE ROADBED.
- UNSUITABLE MATERIAL SHALL BE SIDECAST FROM ROADBED.
- AT INTERSECTIONS, THE ROADBED SHALL BE GRADED TO ASSURE BLENDING OF TWO RIDING SURFACES FOR A DISTANCE OF 50 LINEAR FEET IN ALL DIRECTIONS.
- STAKING WILL BE DONE BY THE FOREST SERVICE. PURCHASER IS RESPONSIBLE FOR ALL STAKING THAT WILL BE DONE AS SPECIFIED IN SECTION 152.01 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS AND ITS SUPPLEMENT. PURCHASER PAYMENT FOR STAKING WILL BE MADE PER CT5.213 DEPOSIT FOR RECONSTRUCTION ENGINEERING SERVICES.



NOTE:
-ALL "SPOT SURFACE" WORK (PLACEMENT OF AGGREGATE BASE SURFACE COURSE: PAY ITEMS 301(11)A AND 301(11)B) ON 5N14 IS OPTIONAL WORK, UNLESS OTHERWISE NOTED. SEE SCHEDULE OF ITEMS.

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE R-5 PACIFIC SOUTHWEST REGION	DRAWN: D. ROMERO DESIGNED: D. ROMERO & M. SCHAFER REVIEWED: APPROVED:	REVISIONS	DATE	BY	FOREST STANISLAUS PROJECT NAME SOUTH MEDUSA STEWARDSHIP
		NO. 1 - All Placement of Aggregate Surface Course on 5N14 made OPTIONAL	09/20/2012	DMR	

SHEET TITLE: ROAD 5N14 - 1 0F 7
SCALE: SEE BARSCALE
SHEET 3 OF 36



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U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

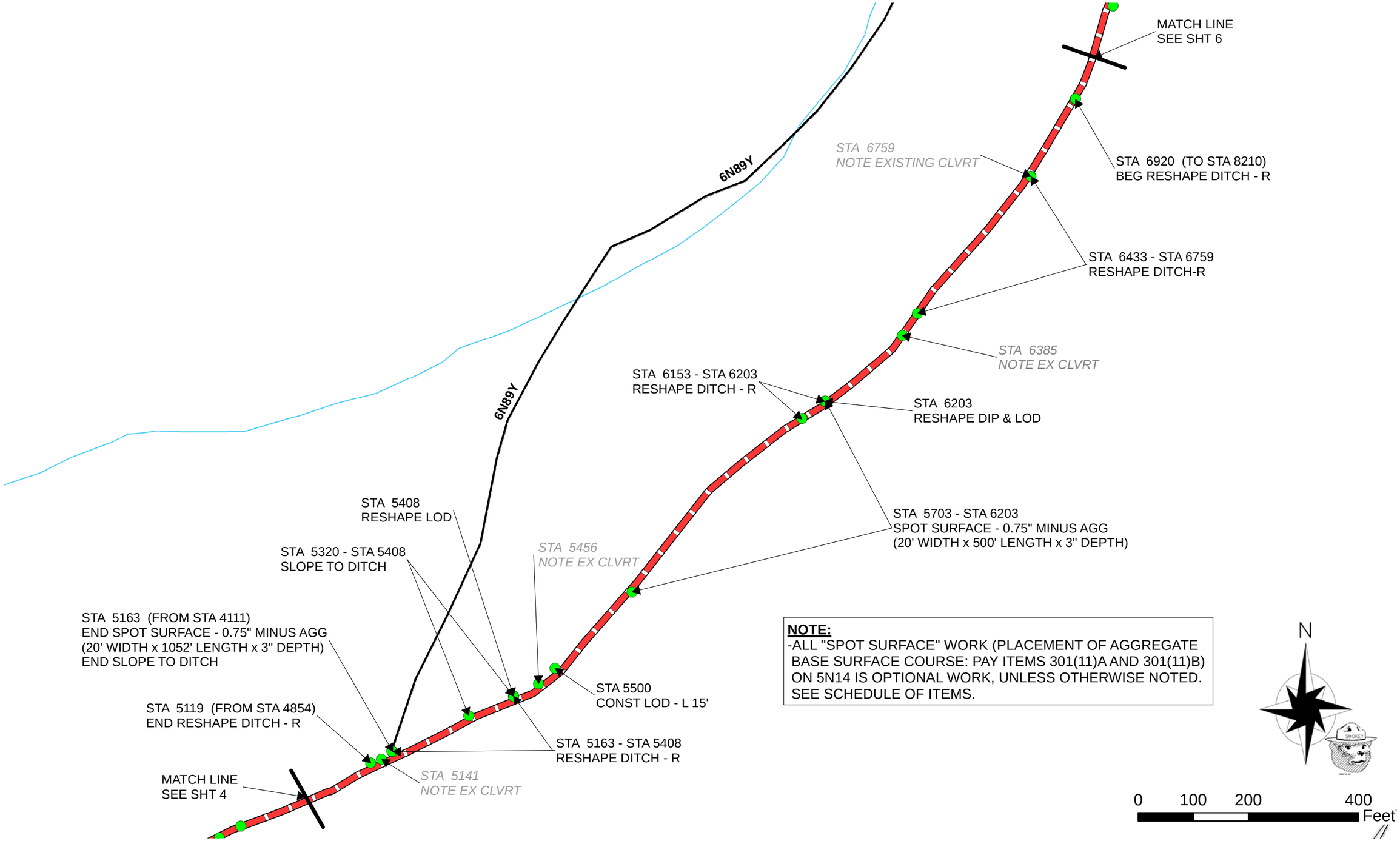
DRAWN:	DAMON ROMERO
DESIGNED:	D. ROMERO & M. SCHAFER
REVIEWED:	
APPROVED:	

REVISIONS	DATE	BY
NO. 1 - All Placement of Aggregate Surface Course on 5N14 made OPTIONAL	09/20/2012	DMR

FOREST
STANISLAUS
PROJECT NAME
SOUTH MEDUSA STEWARDSHIP

SHEET TITLE
ROAD 5N14 - 2 0F 7
SCALE SEE BARSCALE

SHEET 4 OF 36



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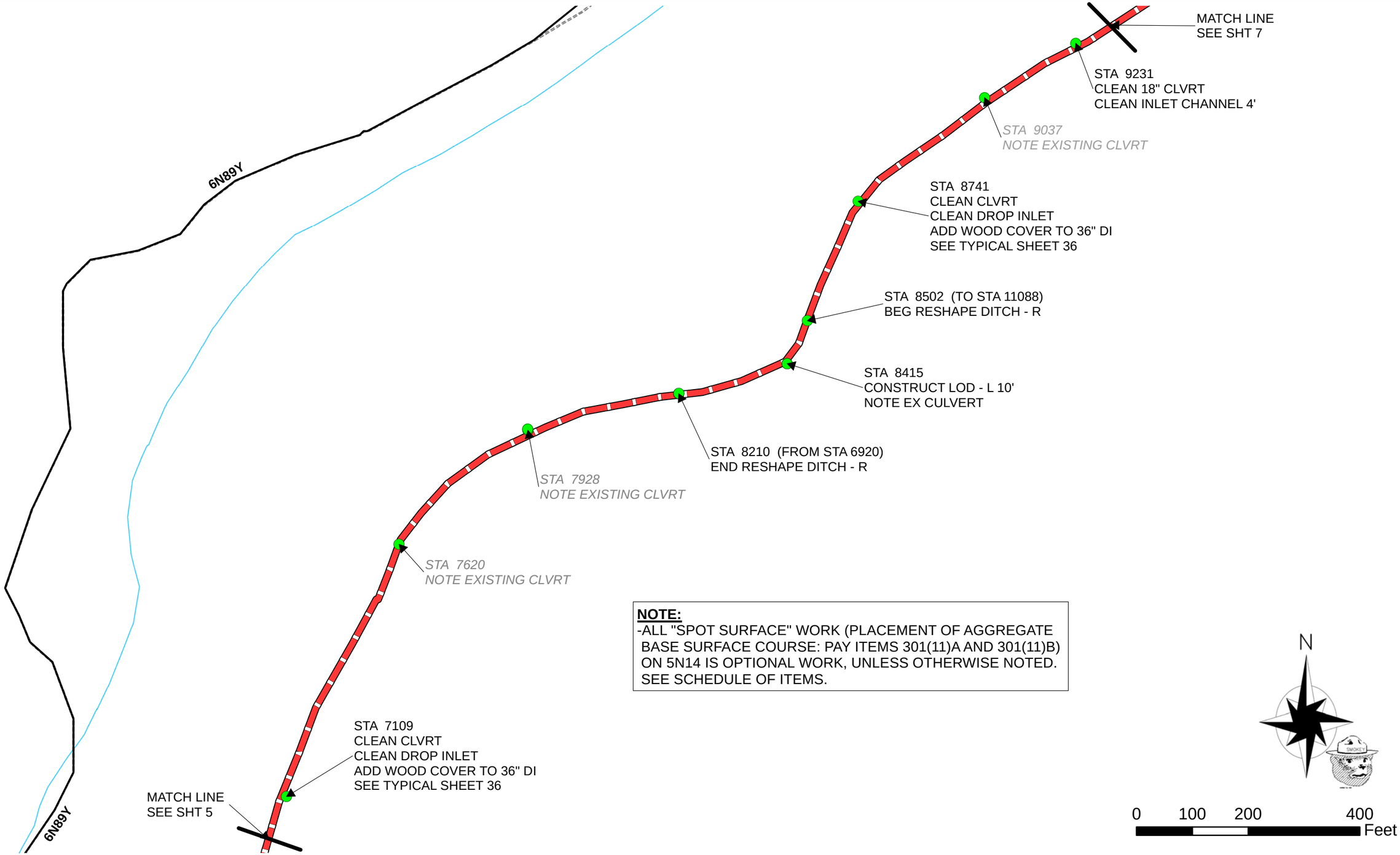
		NO. 1 - All Placement of Aggregate Surface Course on 5N14 made OPTIONAL	09/20/2012	DMR	

SHEET TITLE: ROAD 5N14 - 3 0F 7
SCALE: SEE BARSCALE
SHEET 5 OF 36



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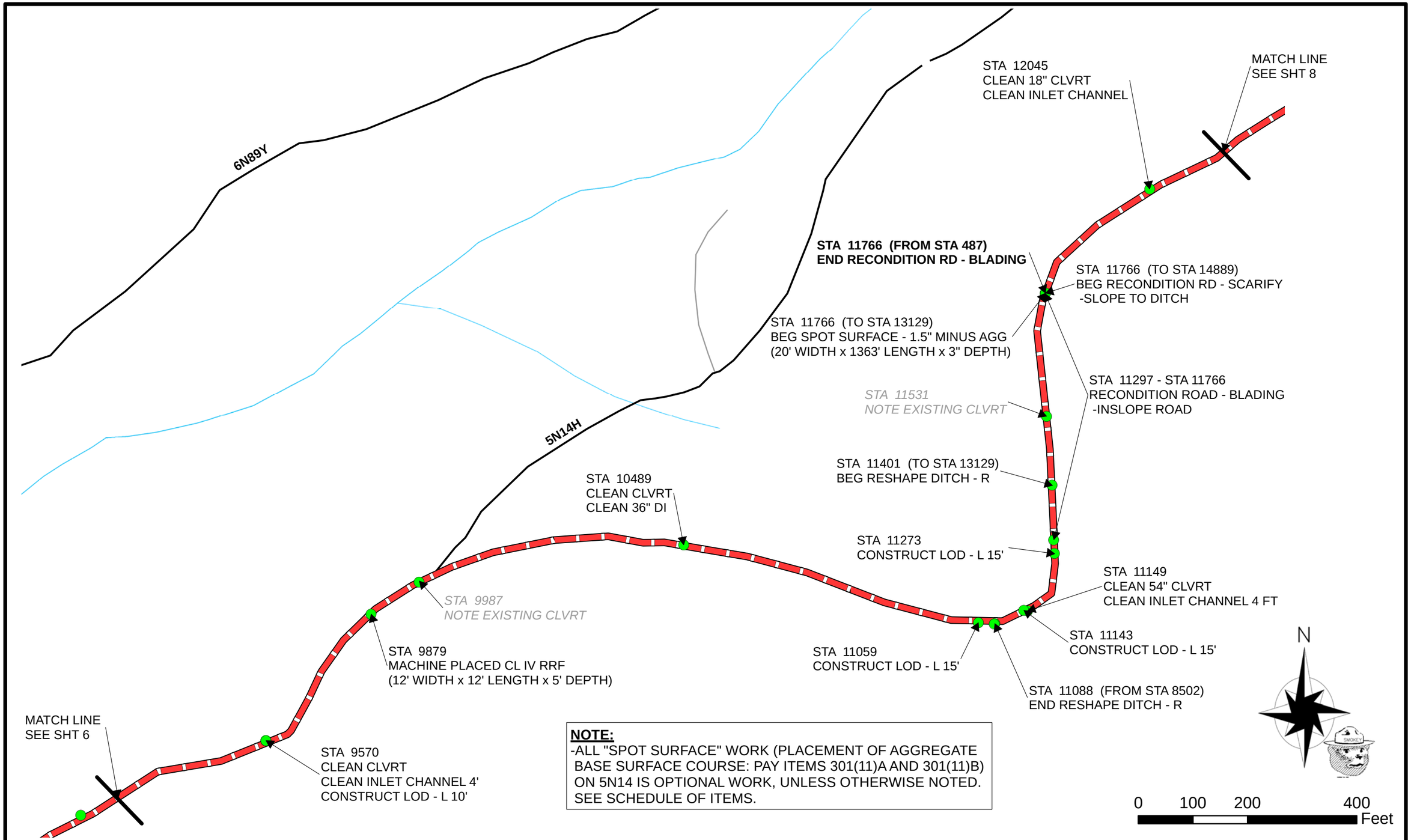
FOREST
STANISLAUS
PROJECT NAME
SOUTH MEDUSA STEWARDSHIP

SHEET TITLE
ROAD 5N14 - 4 0F 7
SCALE SEE BARSCALE

SHEET 6 OF 36



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U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

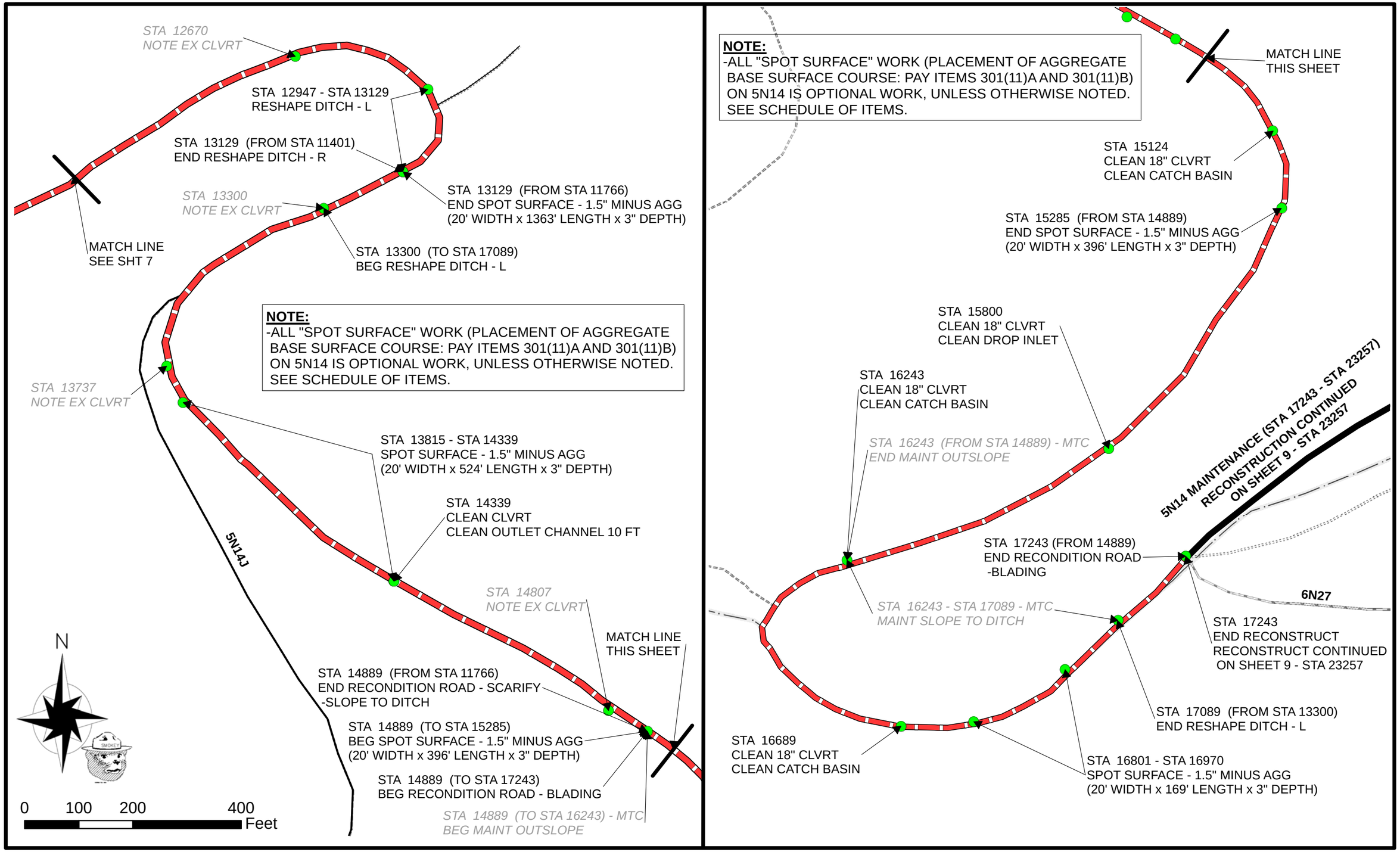
DRAWN: DAMON ROMERO
DESIGNED: D. ROMERO & M. SCHAFER
REVIEWED:
APPROVED:

REVISIONS	DATE	BY
NO. 1 - All Placement of Aggregate Surface Course on 5N14 made OPTIONAL	09/20/2012	DMR

FOREST: **STANISLAUS**
PROJECT NAME: **SOUTH MEDUSA STEWARDSHIP**

SHEET TITLE: **ROAD 5N14 - 5 0F 7**
SCALE: **SEE BARSCALE**

SHEET **7** OF **36**



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R-5
PACIFIC SOUTHWEST REGION

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DESIGNED:	D. ROMERO & M. SCHAFER
REVIEWED:	
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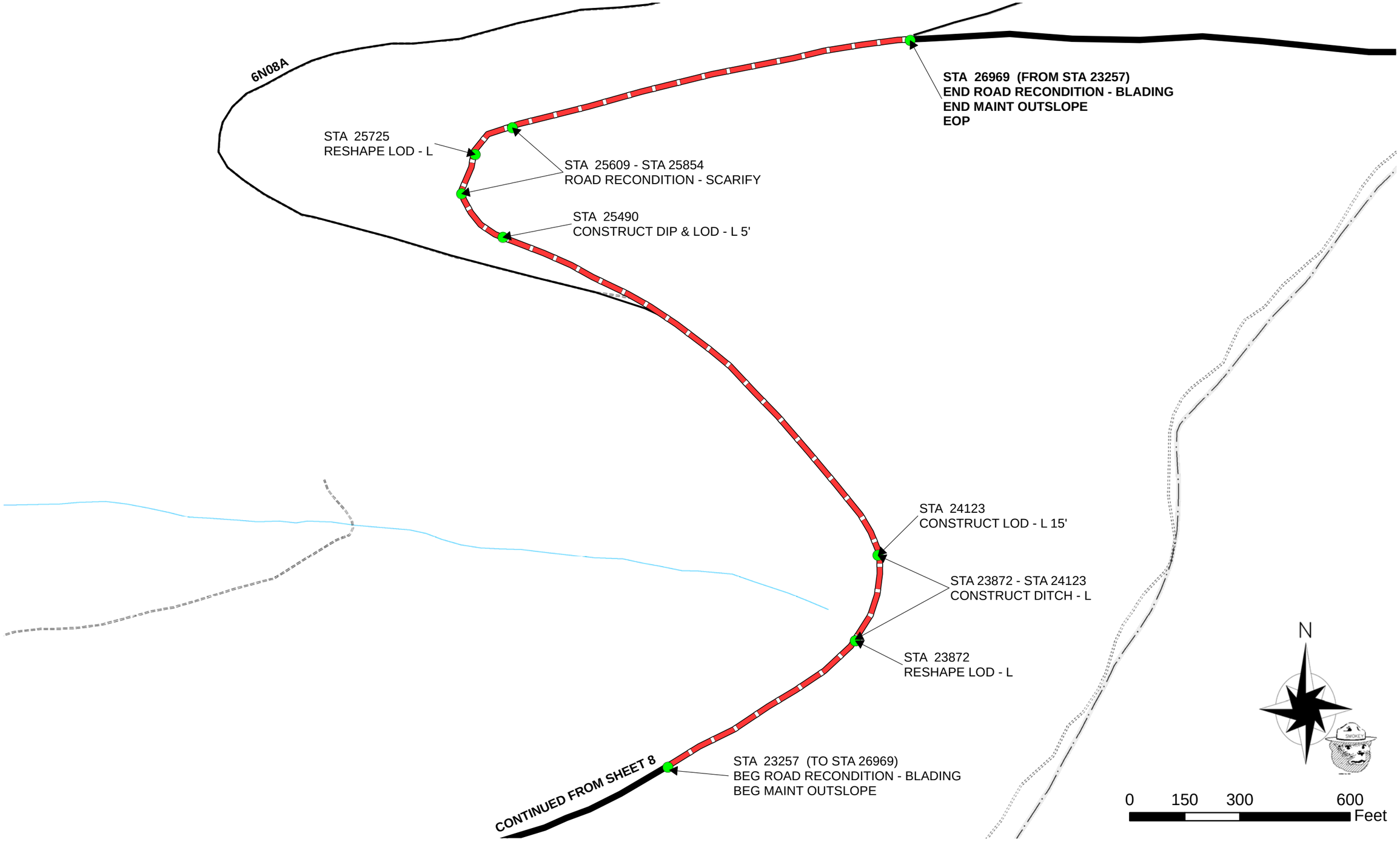
NO. 1 - All Placement of Aggregate Surface Course on 5N14 made OPTIONAL	09/20/2012	DMR

FOREST
STANISLAUS
PROJECT NAME
SOUTH MEDUSA STEWARDSHIP

SHEET TITLE
ROAD 5N14 - 6 0F 7
SCALE SEE BARSCALE

SHEET 8 OF 36



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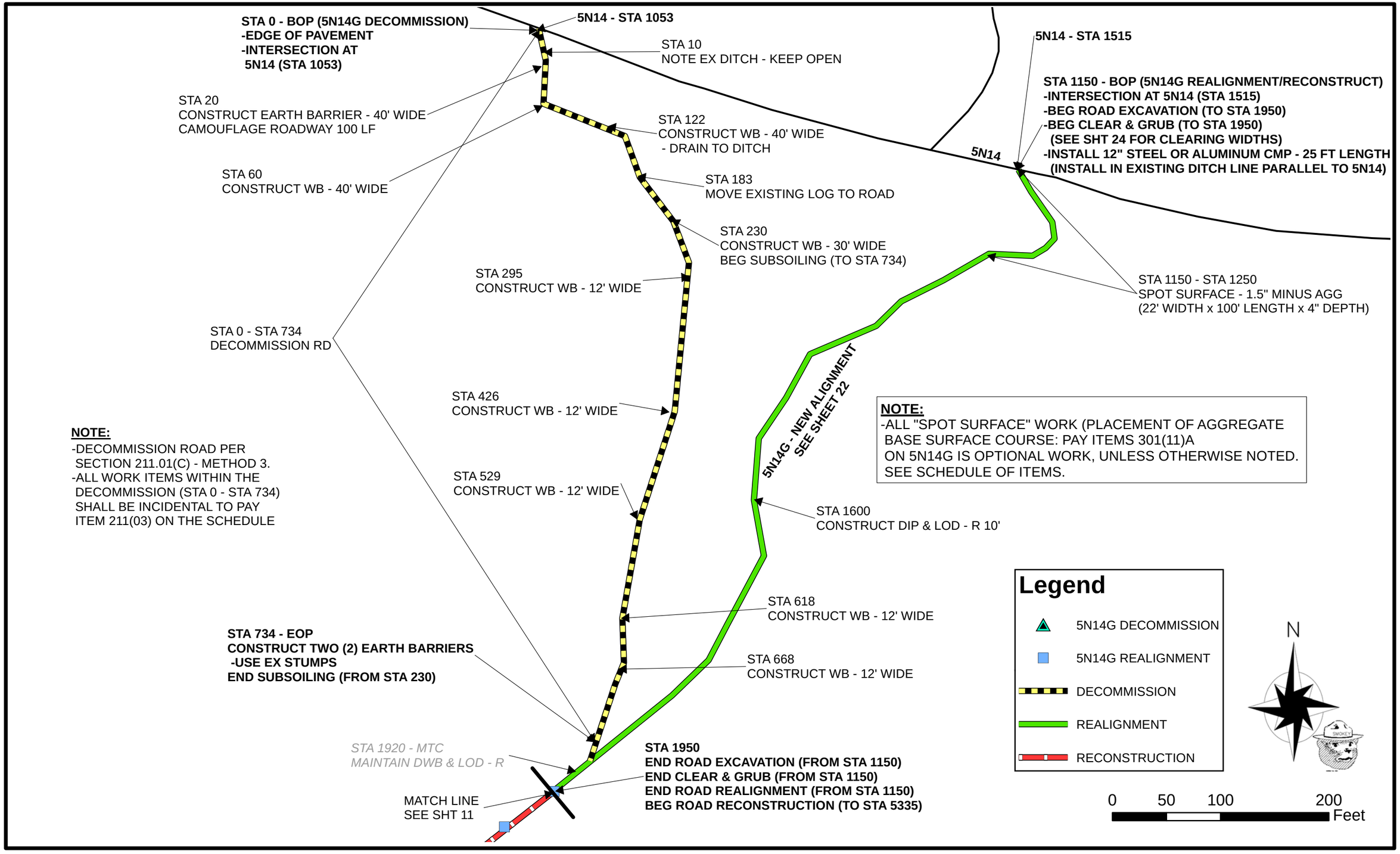
SHEET TITLE
ROAD 5N14 - 7 0F 7
SCALE SEE BARSCALE

SHEET 9 OF 36



U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE PACIFIC SOUTHWEST REGION	DRAWN: DAMON ROMERO DESIGNED: E.SETNESS & T. DURSTON REVIEWED: APPROVED:	REVISIONS	DATE	BY	FOREST STANISLAUS PROJECT NAME SOUTH MEDUSA STEWARDSHIP	SHEET TITLE ROAD 5N14G - 1 OF 3 SCALE SEE BARSCALE	SHEET 10 OF 36
		NO.					

NOTE:
-ALL "SPOT SURFACE" WORK (PLACEMENT OF AGGREGATE BASE SURFACE COURSE: PAY ITEMS 301(11)A ON 5N14G IS OPTIONAL WORK, UNLESS OTHERWISE NOTED. SEE SCHEDULE OF ITEMS.

Legend

- DECOMMISSION
- REALIGNMENT
- RECONSTRUCTION
- RECONSTRUCT/CLOSE

MATCH LINE
SEE SHT 10

STA 1950
END ROAD EXCAVATION (FROM STA 1150)
END CLEAR & GRUB (FROM STA 1150)
END ROAD REALIGNMENT (FROM STA 1150)
BEG ROAD RECONSTRUCTION (TO STA 5335)

STA 2014 - MTC
MAINTAIN DWB & LOD - R

STA 2223 - MTC
MAINTAIN DWB & LOD - R

STA 2112 - MTC
MAINTAIN DWB & LOD - R

STA 2273
REMOVE DOWN TREE
MOVE LOG TO SIDE FOR ROADSIDE BARRIER - L

STA 2542
CONSTRUCT DIP & LOD - R 20'

STA 2405
CONSTRUCT DIP & LOD - R 20'

STA 2666
CONSTRUCT DIP & LOD - R 20'

STA 2778
CONSTRUCT LOD - R 20'

STA 2759
MOVE SLASH TO ROADSIDE

STA 2827 - MTC
MAINTAIN DWB & LOD - R

STA 2951
RESHAPE LOD - R
NOTE EX DIP

STA 3107 - MTC
CONST EARTH BARRIER
-POST HAUL

STA 3327
REMOVE DOWN TREE

STA 3276
REMOVE DOWN TREE

STA 3487
CONSTRUCT LOD - L 20'

STA 3477 - STA 3524
REMOVE BERM - L
REMOVE DOWN TREE
AND SLASH

STA 3593
CONSTRUCT LOD - L 20'
(THROUGH BERM)

STA 3635
RESHAPE DIP & LOD - L
CONST WB & LOD - MTC

STA 3775
RESHAPE SWALE
RESHAPE LOD - L

STA 3885 - MTC
CONST WB & LOD

STA 3973
RESHAPE LOD - L
CONST WB & LOD - MTC

STA 4132 - MTC
MAINT DIP & LOD - L
CONST WB & LOD

STA 4191
MOVE SLASH TO
ROADSIDE

MATCH LINE
SEE SHT 12

NOTE:
CONSTRUCT ALL EARTH BARRIERS
AND NON DRIVEABLE
WATERBARS (WB) POST-HAUL

N

0 50 100 200
Feet

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FOREST: STANISLAUS PROJECT NAME: SOUTH MEDUSA STEWARDSHIP	SHEET TITLE: ROAD 5N14G - 2 OF 3 SCALE: SEE BARSCALE	SHEET 11 OF 36		

Legend

- DECOMMISSION
- REALIGNMENT
- RECONSTRUCTION
- RECONSTRUCT/CLOSE

NOTE:
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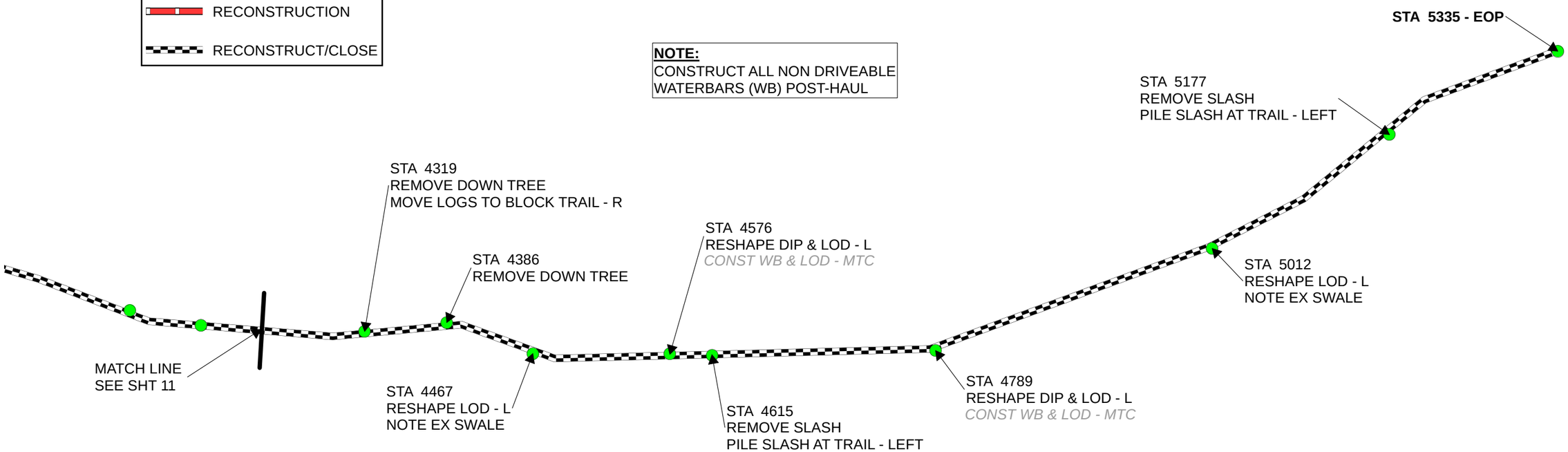
NOTE:
CONSTRUCT ALL NON DRIVEABLE WATERBARS (WB) POST-HAUL



0 50 100 200 Feet

U.S. DEPARTMENT OF AGRICULTURE
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R-5
PACIFIC SOUTHWEST REGION

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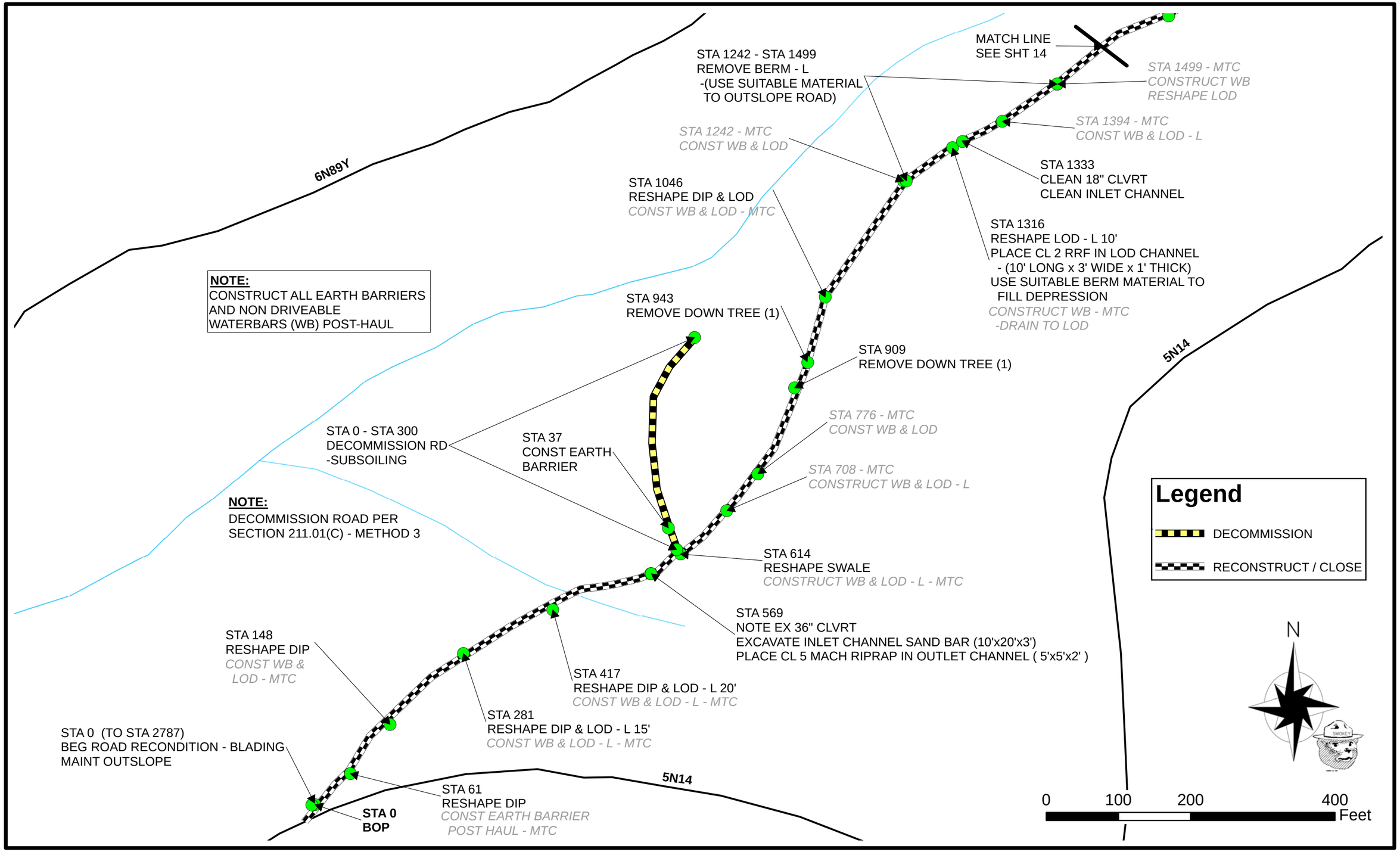
FOREST: STANISLAUS
PROJECT NAME: SOUTH MEDUSA STEWARDSHIP

SHEET TITLE: ROAD 5N14G - 3 OF 3
SCALE: SEE BARSCALE

SHEET 12 OF 36



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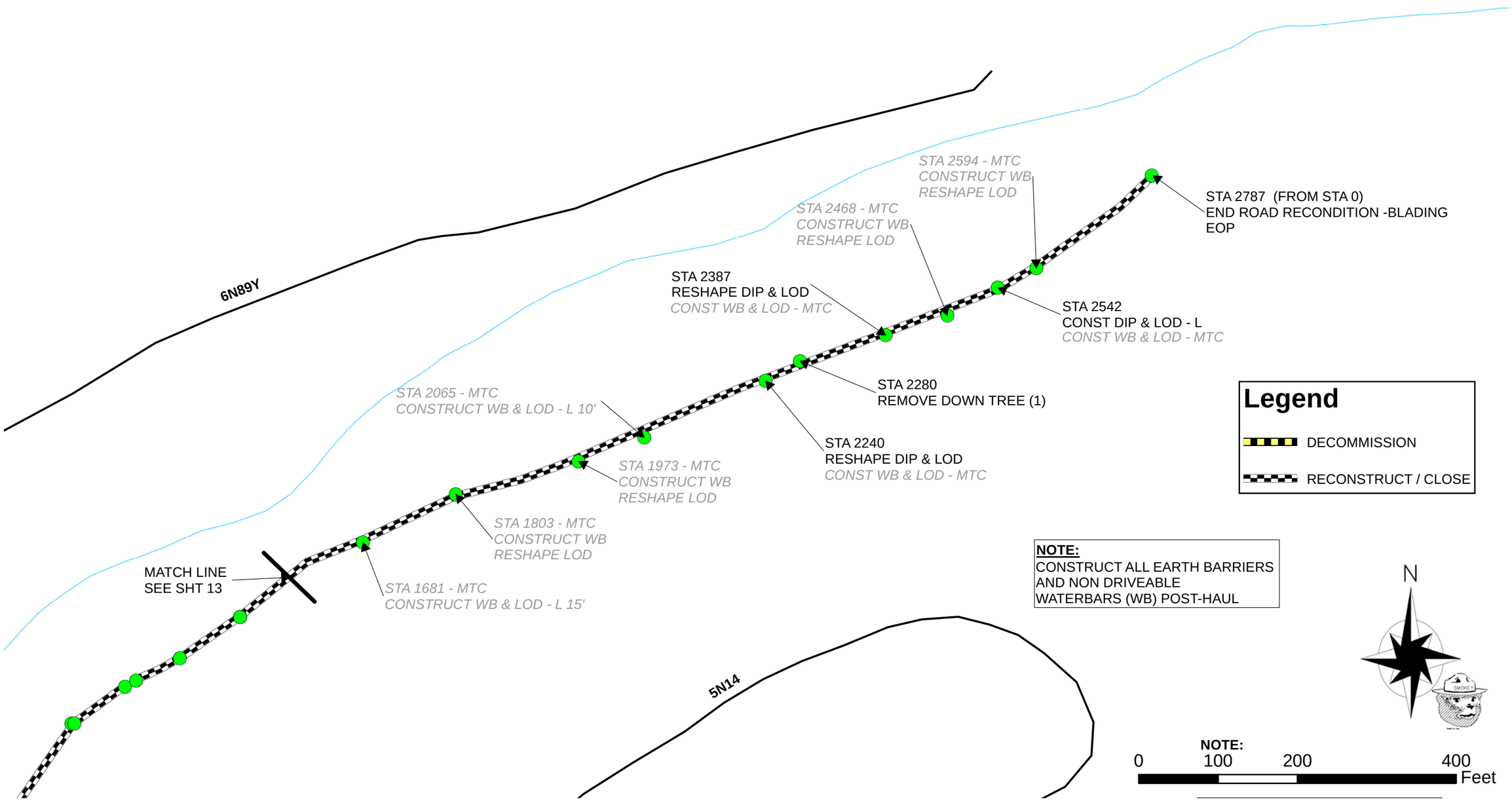

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FOREST
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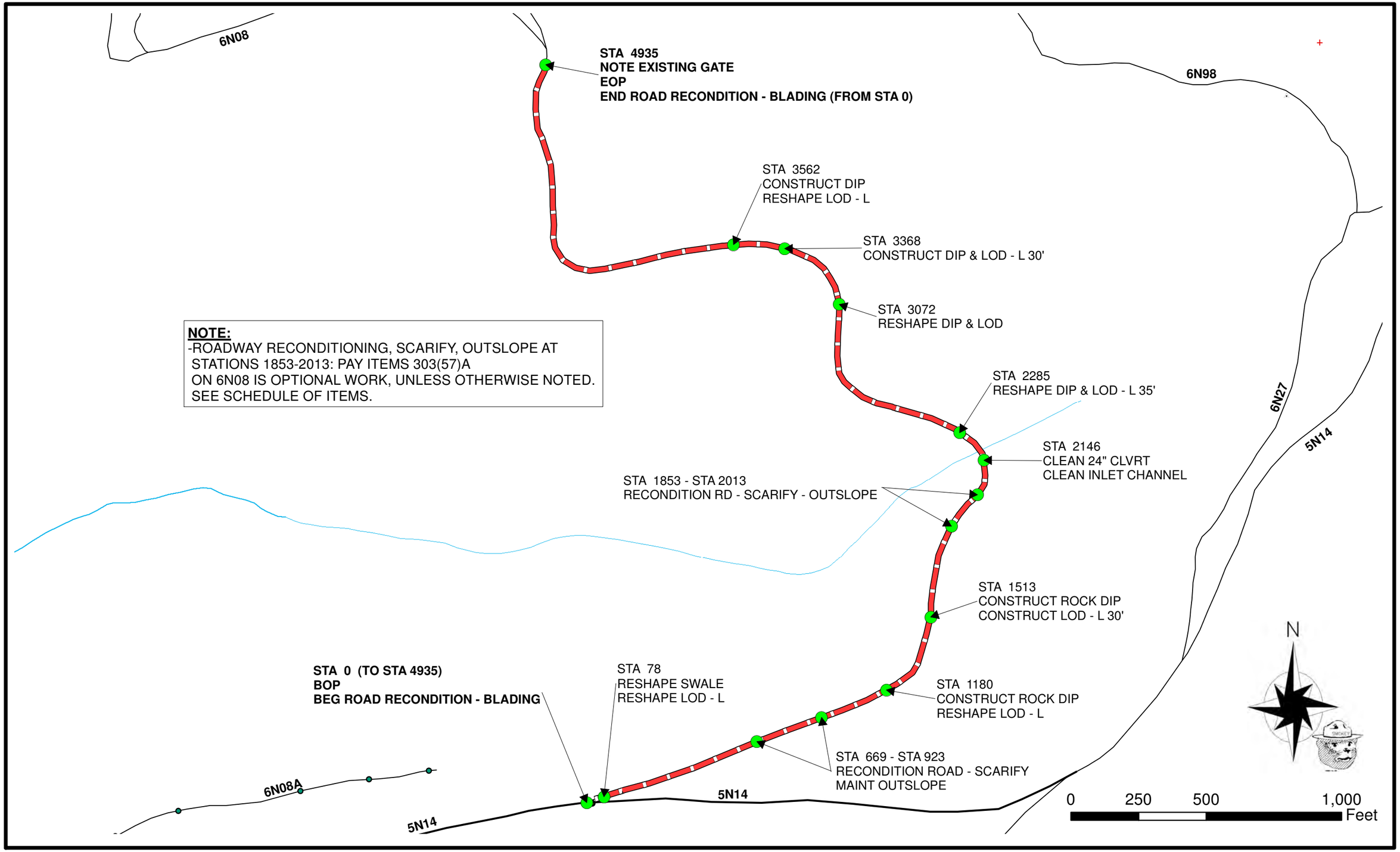
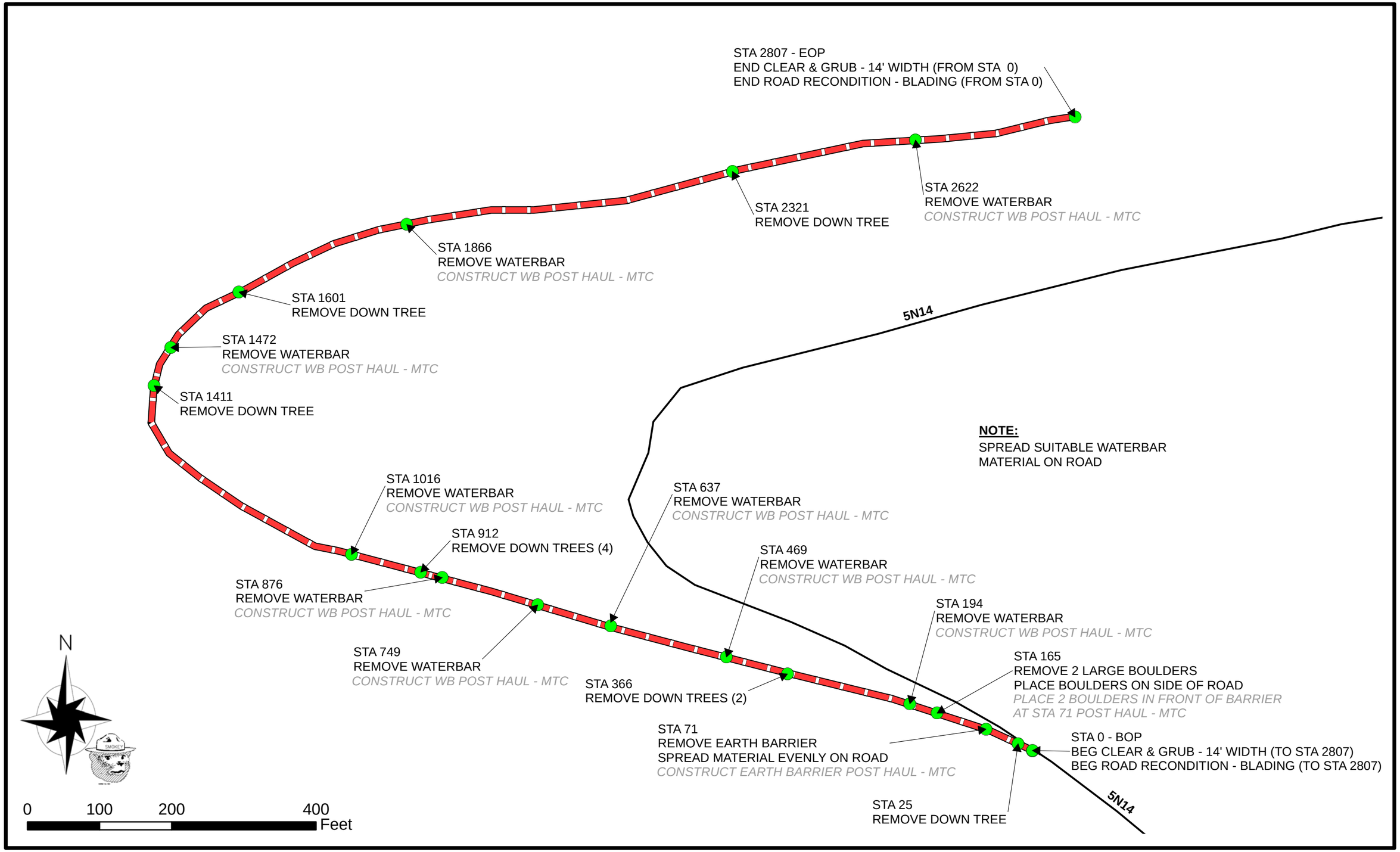
SHEET TITLE
ROAD 5N14H - 2 0F 2
SCALE SEE BARSCALE

SHEET 14 OF 36



NOTE:
-ROADWAY RECONDITIONING, SCARIFY, OUTSLOPE AT STATIONS 1853-2013: PAY ITEMS 303(57)A ON 6N08 IS OPTIONAL WORK, UNLESS OTHERWISE NOTED. SEE SCHEDULE OF ITEMS.

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE R-5 PACIFIC SOUTHWEST REGION	DRAWN: DAMON ROMERO DESIGNED: D.ROMERO & M.SCHAFER REVIEWED: APPROVED:	REVISIONS / NO. / DATE / BY	FOREST: STANISLAUS PROJECT NAME: SOUTH MEDUSA STEWARDSHIP	SHEET TITLE: ROAD 6N08 SCALE: SEE BARSCALE	SHEET 15 OF 36



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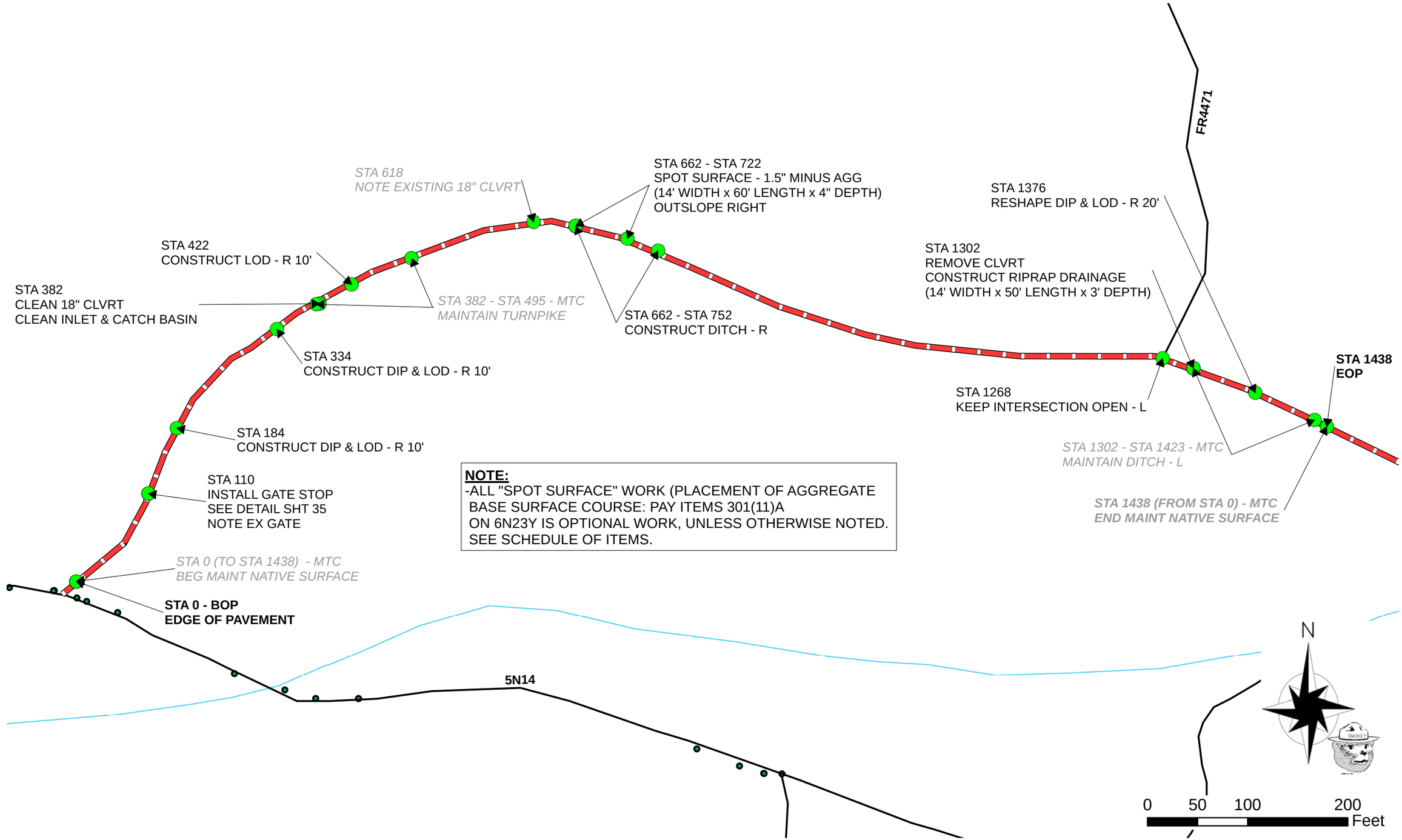
REVISIONS	DATE	BY
NO.		

FOREST: STANISLAUS
PROJECT NAME: SOUTH MEDUSA STEWARDSHIP

SHEET TITLE: ROAD 6N08A
SCALE: SEE BARSCALE

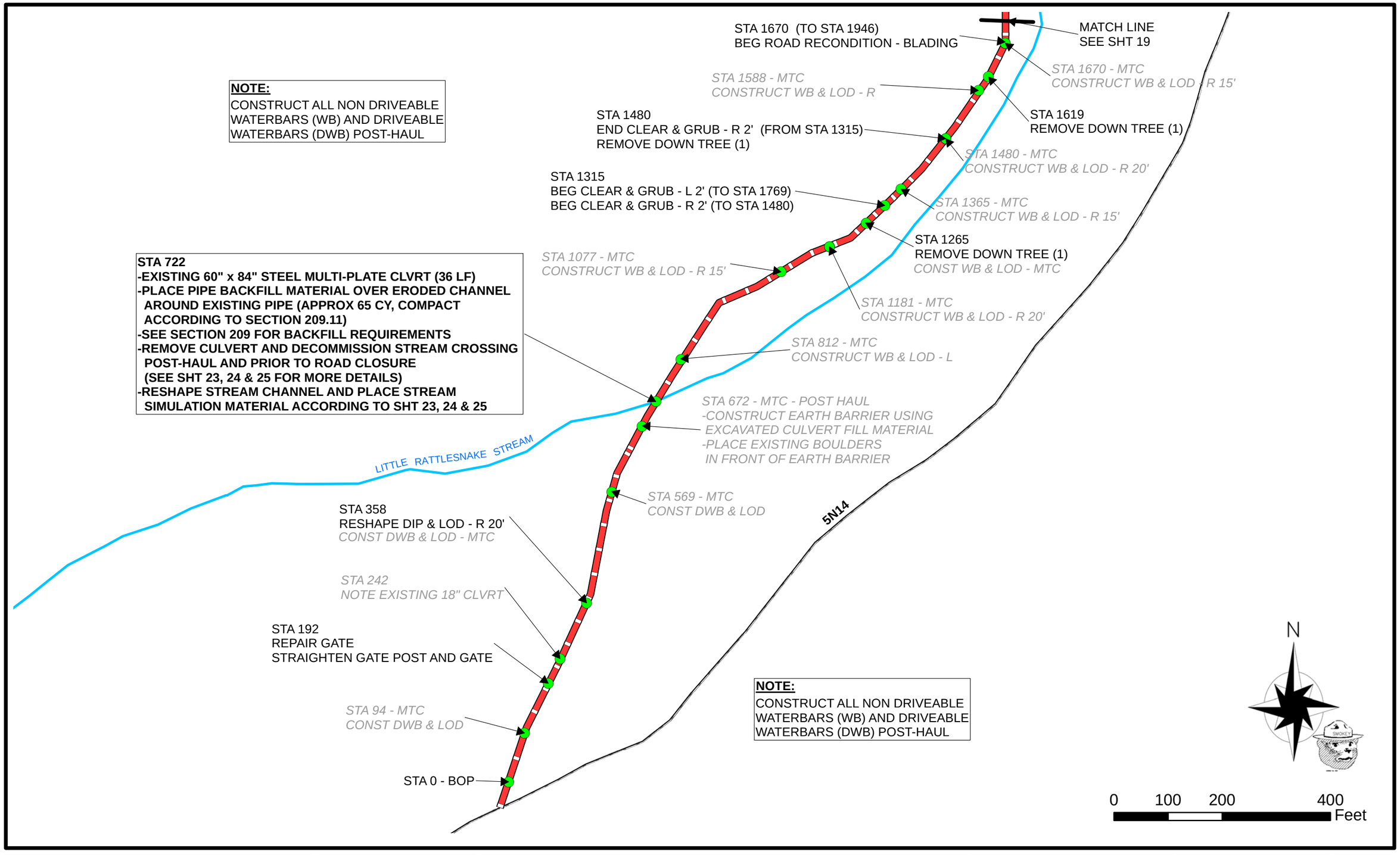
SHEET 16 OF 36



NOTE:
-ALL "SPOT SURFACE" WORK (PLACEMENT OF AGGREGATE BASE SURFACE COURSE: PAY ITEMS 301(11)A ON 6N23Y IS OPTIONAL WORK, UNLESS OTHERWISE NOTED. SEE SCHEDULE OF ITEMS.

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE R-5 PACIFIC SOUTHWEST REGION	DRAWN: DAMON ROMERO DESIGNED: E.SETNESS & T.DURSTON REVIEWED: APPROVED:	REVISIONS / NO.	DATE	BY	FOREST: STANISLAUS PROJECT NAME: SOUTH MEDUSA STEWARDSHIP

SHEET TITLE	SHEET
ROAD 6N23Y	17 OF 36
SCALE SEE BARSCALE	



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

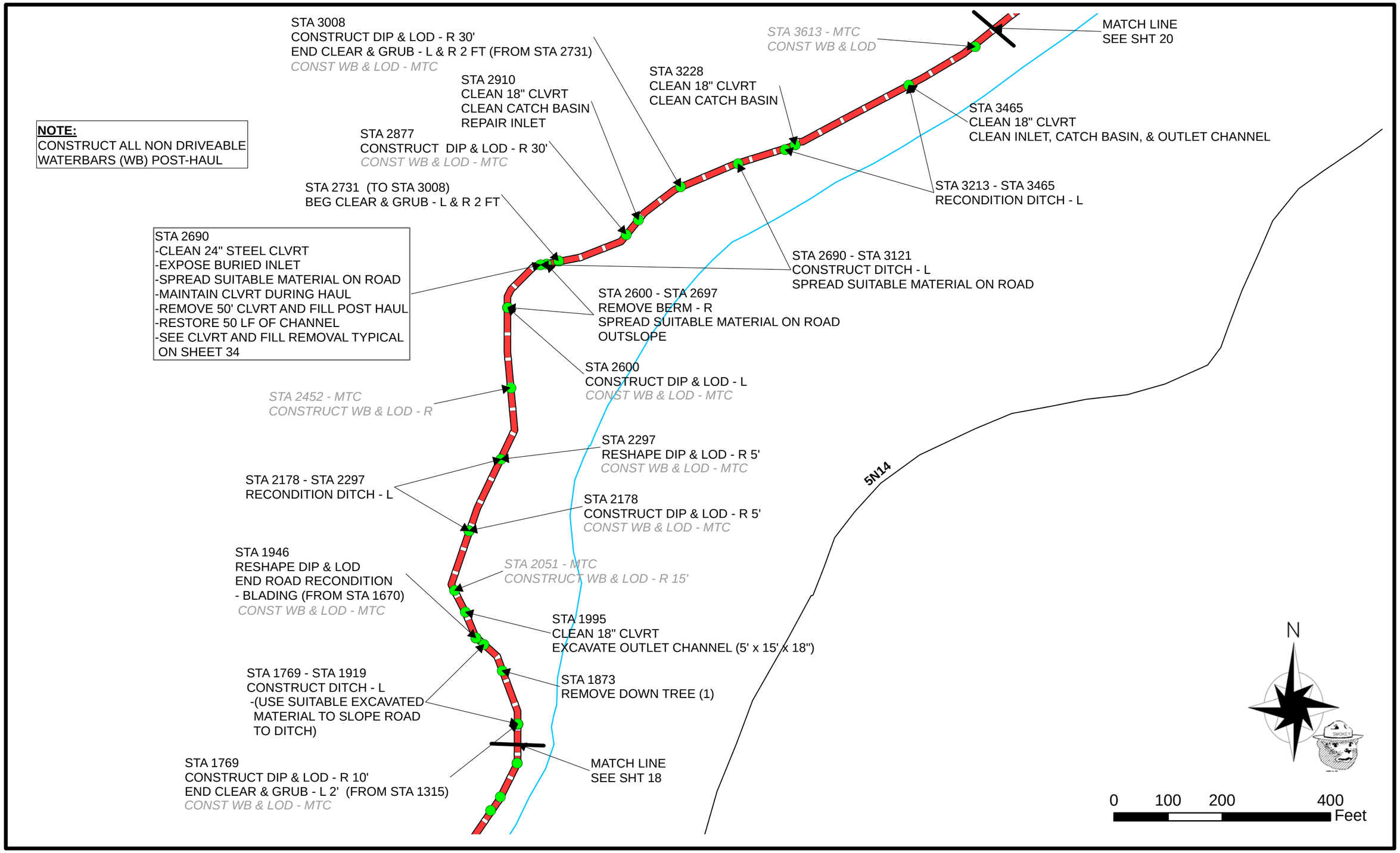
DRAWN:	DAMON ROMERO
DESIGNED:	D.ROMERO & M.SCHAFER
REVIEWED:	
APPROVED:	

REVISIONS	DATE	BY
NO.		

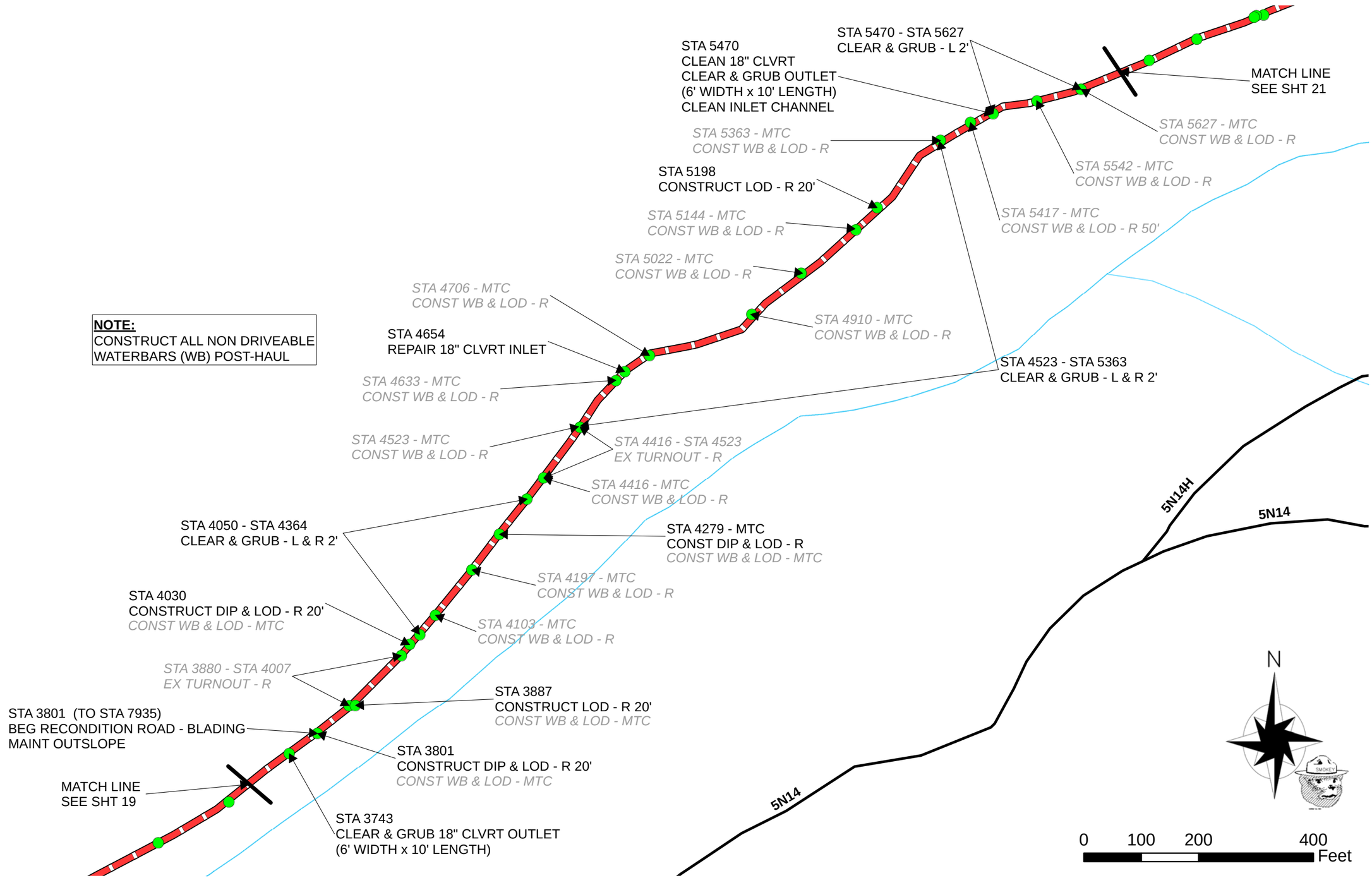
FOREST: STANISLAUS
PROJECT NAME: SOUTH MEDUSA STEWARDSHIP

SHEET TITLE: ROAD 6N89Y - 1 0F 4
SCALE: SEE BARSCALE

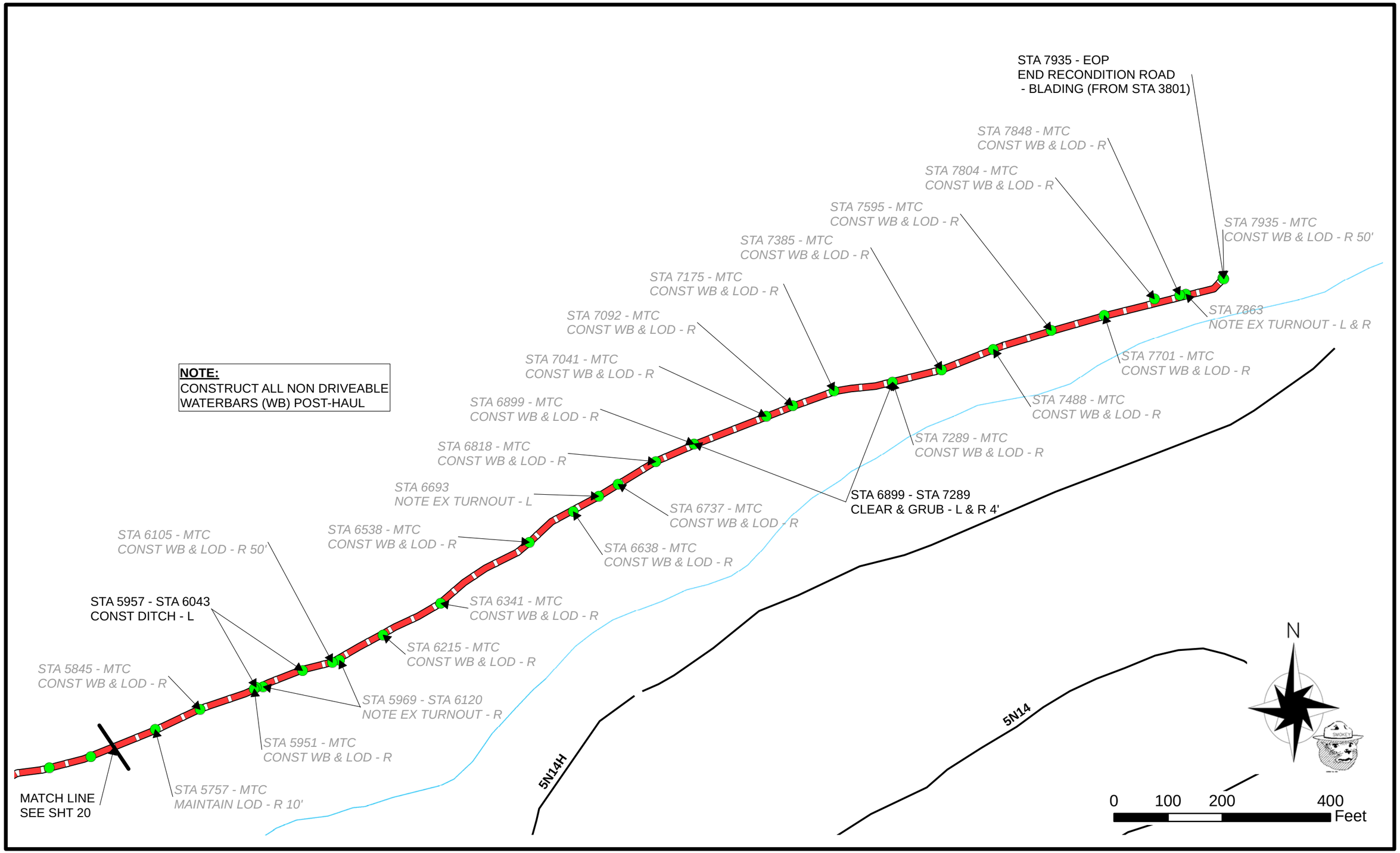
SHEET 18 OF 36



U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE R-5 PACIFIC SOUTHWEST REGION	DRAWN: DAMON ROMERO DESIGNED: E.SETNESS & M.SCHAFER REVIEWED: APPROVED:	REVISIONS / NO.	DATE	BY	FOREST: STANISLAUS PROJECT NAME: SOUTH MEDUSA STEWARDSHIP
SHEET TITLE: ROAD 6N89Y - 2 0F 4 SCALE: SEE BARSCALE	SHEET 19 OF 36				

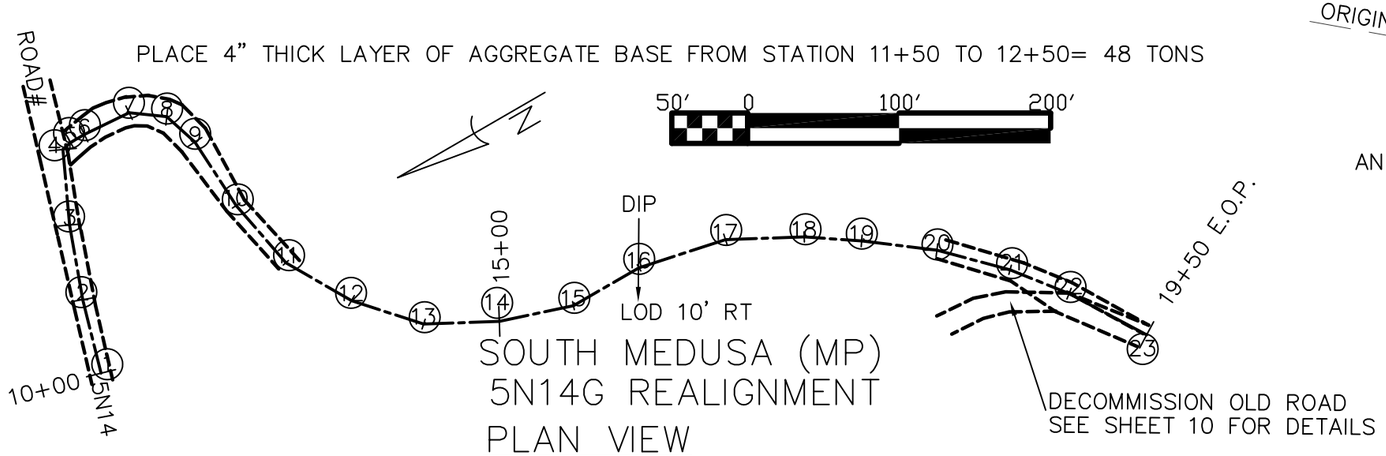


U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE R-5 PACIFIC SOUTHWEST REGION	DRAWN: DAMON ROMERO DESIGNED: E.SETNESS & M.SCHAFER REVIEWED: APPROVED:	REVISIONS / NO.	DATE	BY	FOREST: STANISLAUS PROJECT NAME: SOUTH MEDUSA STEWARDSHIP
SHEET TITLE: ROAD 6N89Y - 3 0F 4 SCALE: SEE BARSCALE	SHEET 20 OF 36				

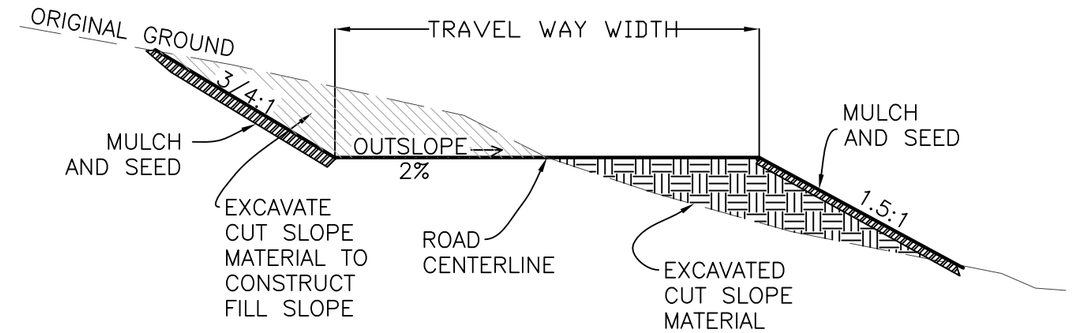


U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE R-5 PACIFIC SOUTHWEST REGION	DRAWN: DAMON ROMERO DESIGNED: E.SETNESS & M.SCHAFER REVIEWED: APPROVED:	REVISIONS / DATE / BY NO.	FOREST STANISLAUS PROJECT NAME SOUTH MEDUSA STEWARDSHIP	SHEET TITLE ROAD 6N89Y - 4 0F 4 SCALE SEE BARSCALE	SHEET 21 OF 36

PLACE 4" THICK LAYER OF AGGREGATE BASE FROM STATION 11+50 TO 12+50= 48 TONS



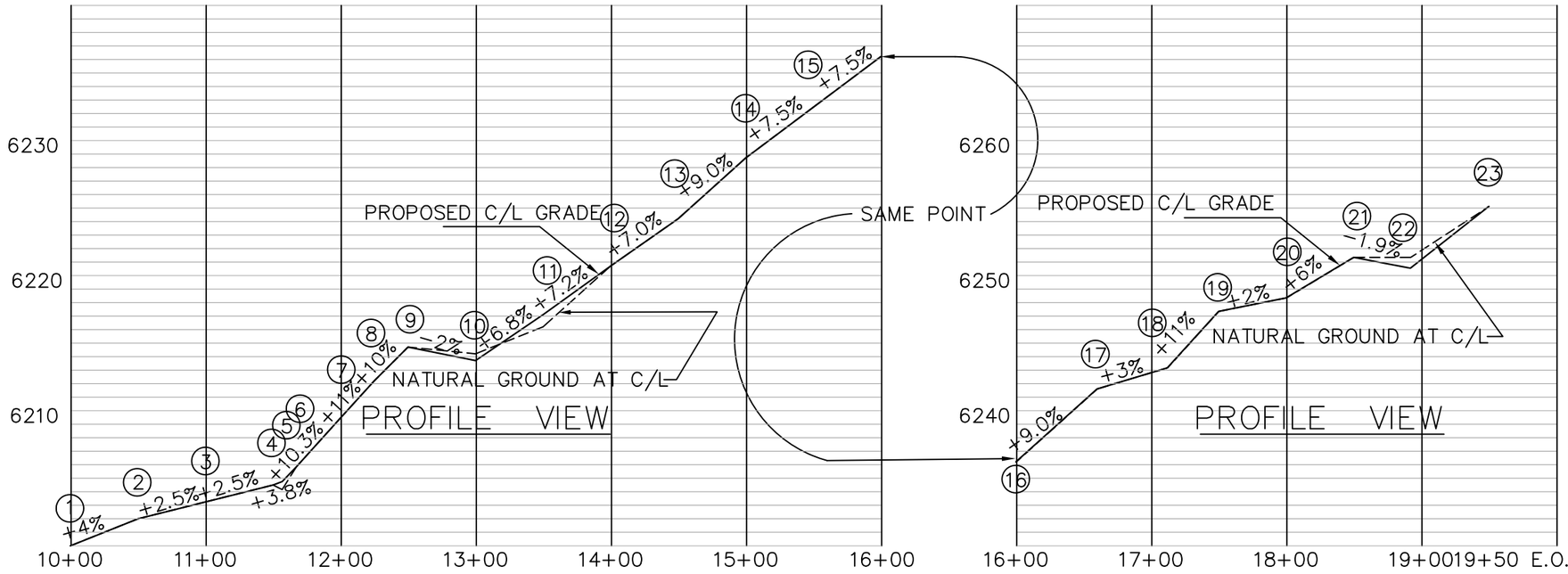
SOUTH MEDUSA (MP)
5N14G REALIGNMENT
PLAN VIEW



TYPICAL CROSS SECTION

NOTE: SEE SHEETS 11–12 FOR DETAILS ON RECONSTRUCTION AND MAINTENANCE FOR THE REMAINING WORK ON ROAD 5N14G

FINISHED TRAVEL WAY WIDTH



PROFILE VIEW

PROFILE VIEW

TOTAL CLEARING & GRUBBING= 0.49 ACRES
TOTAL EXCAVATION= 152 CUBIC YARDS

TANGENT NO.	BEARING AHEAD	STATION=DISTANCE AHEAD	CLEARING WIDTH
1	S.74° E.	10+00= 50'	20.36'
2	S.70° E.	10+50= 50'	20.27'
3	S.65° E.	11+00= 50'	20.11'
4	S.13° E.	11+50= 6.8'	28.26'
5	S.00° E.	11+56.8=10.6'	28.41'
6	S.04° W.	11+67.4=32.8'	28.52'
7	S.36° W.	12+00= 25'	28.62
8	S.72° W.	12+25= 25'	29.73'
9	S.87° W.	12+50= 50'	29.4'
10	S.79° W.	13+00= 50'	21.46'
11	S.60° W.	13+50= 50'	20.0'
12	S.48° W.	14+00= 50'	20.45'
13	S.28° W.	14+50= 50'	20.72
14	S.18° W.	15+00= 50'	20.45'
15	S.00° W.	15+50= 50'	20.45'
16	S.12° W.	16+00= 60'	20.39'
17	S.28° W.	16+60=52'	20.16'
18	S.34° W.	17+12= 38'	21.27'
19	S.37° W.	17+50= 50'	20.63'
20	S.45° W.	18+00= 50'	21.03'
21	S.52° W.	18+50= 42'	20.72'
22	S.58° W.	18+92= 58'	30.19'
23	S.00° W.	19+50=0'	22.65'

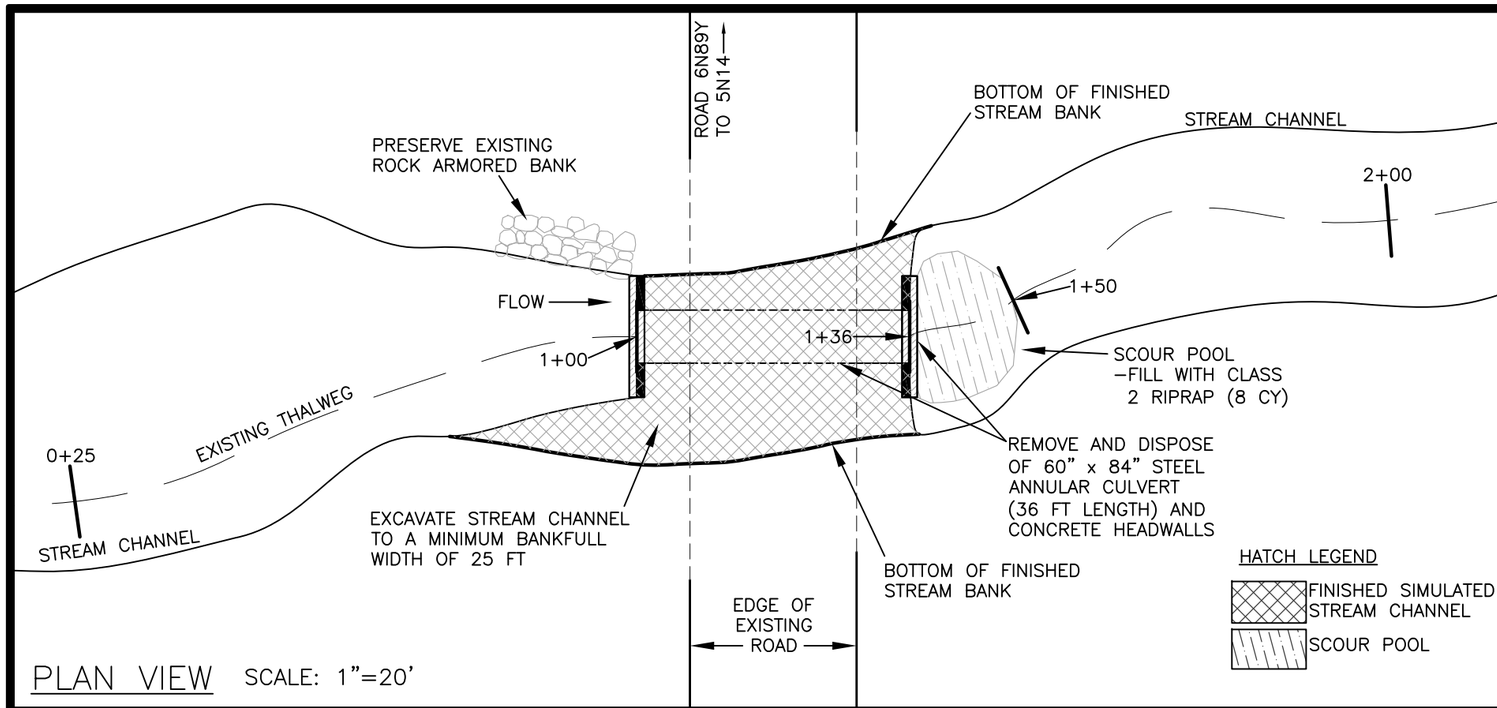
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

Drawn M.SCHAFER
Designed M.SCHAFER & D.ROMERO
Reviewed
Approved

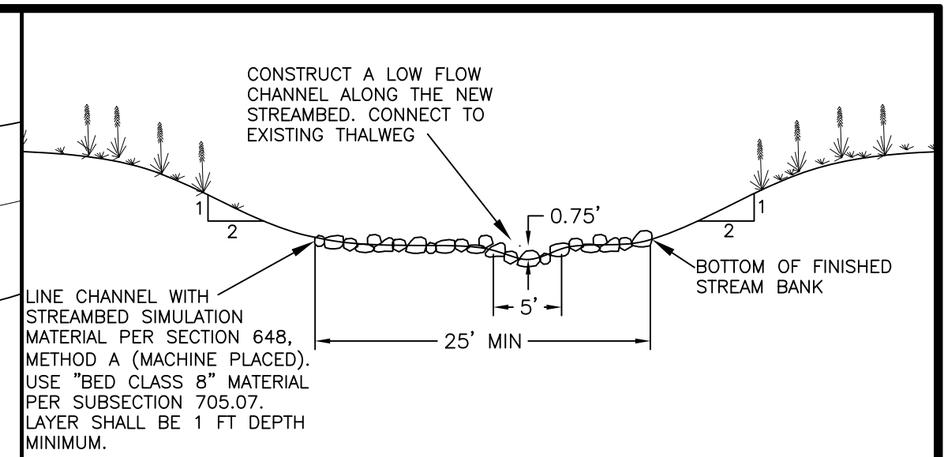
Revisions			
NO.	DESCRIPTION	DATE	BY

Forest STANISLAUS
Project Name SOUTH MEDUSA STEWARDSHIP

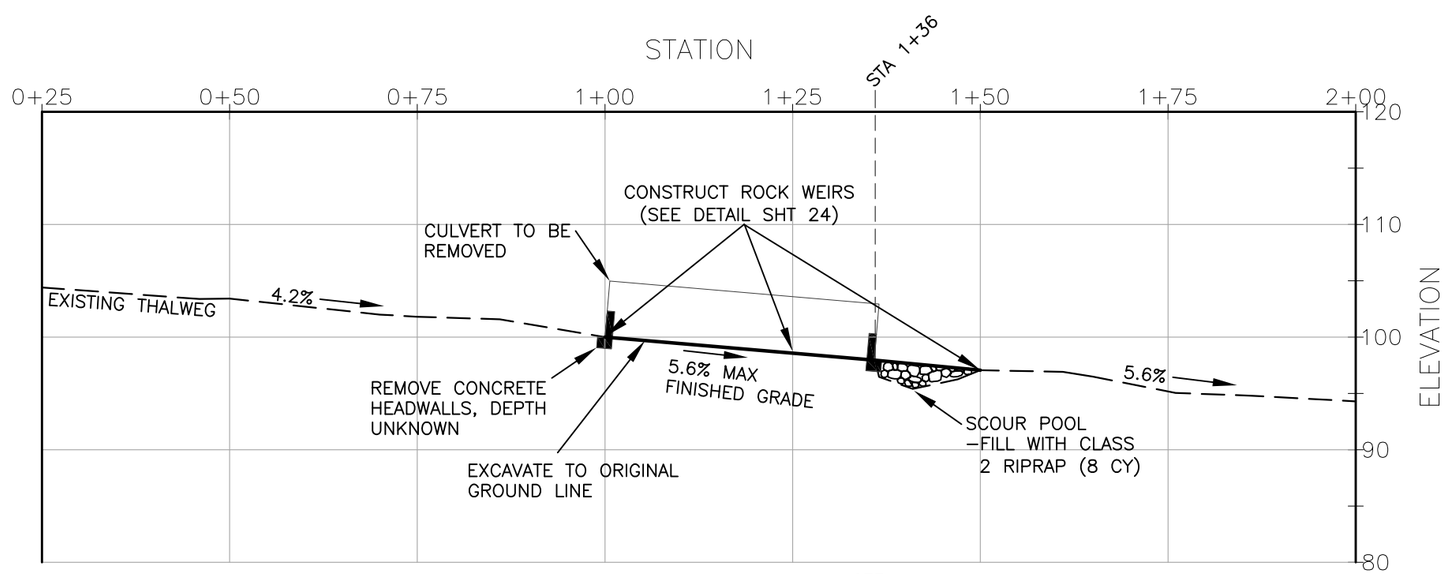
Sheet Title REALIGNMENT OF ROAD NO 5N14G
Scale NO SCALE



PLAN VIEW SCALE: 1"=20'



CROSS SECTION
FINISHED STREAM CHANNEL NTS



THALWEG PROFILE

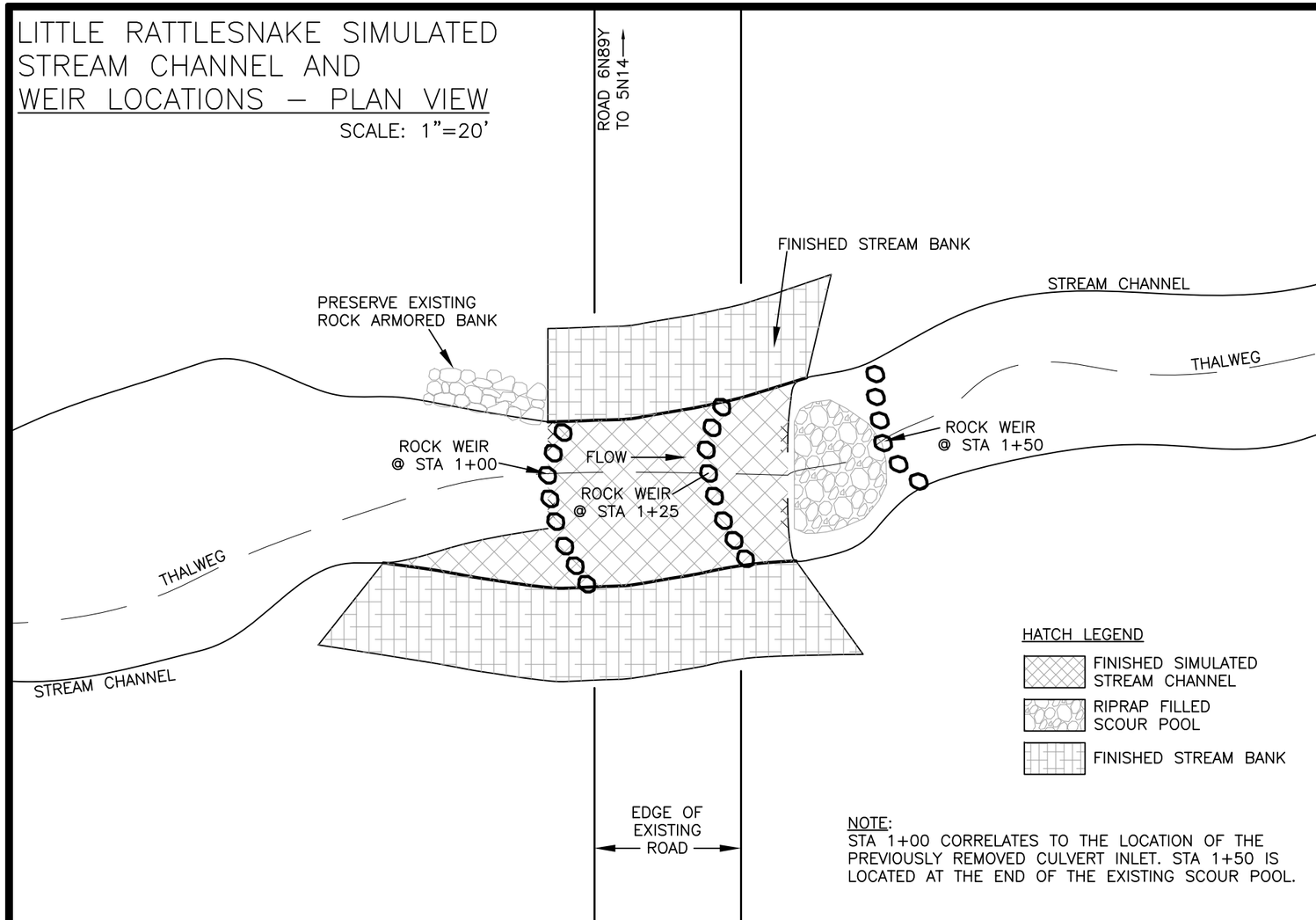
NOTE:
STA 1+00 CORRELATES TO THE LOCATION OF THE PREVIOUSLY REMOVED CULVERT INLET. STA 1+50 IS LOCATED AT THE END OF THE EXISTING SCOUR POOL.

NOTES - SEE SHEET 18 FOR LAYOUT REFERENCES.

1. CONTRACTOR SHALL PERFORM STREAM CROSSING DECOMMISSION ACTIVITIES BETWEEN THE DATES OF JULY 15 AND OCTOBER 31, AND NOT DURING RAIN EVENTS, UNLESS OTHERWISE APPROVED IN WRITING BY THE CONTRACTING OFFICER.
2. CONTRACTOR SHALL CONSTRUCT A PLASTIC LINED DIVERSION CHANNEL PRIOR TO CULVERT REMOVAL OR STREAM CHANNEL EXCAVATION ACTIVITIES. SEE "DEWATERING STRUCTURE TYPICAL" ON SHEET 25.
3. REMOVE CULVERT, FILL, AND CONCRETE HEADWALLS AND DISPOSE ACCORDING TO SECTION 203. REMOVAL AND DISPOSAL OF FILL AND CONCRETE HEADWALLS IS INCIDENTAL TO PAY ITEM 203(52)B. USE FILL MATERIAL TO CONSTRUCT AN EARTH BARRIER ON 6N89Y AT THE LOCATION DESIGNATED ON THE PLANS.
4. EXCAVATE STREAM CHANNEL AND CONTOUR STREAM BANKS AS SHOWN ON THE DRAWING. FINISHED SIMULATED STREAM CHANNEL SHALL HAVE A MINIMUM WIDTH OF 25 FT AND SHALL BE TO THE ELEVATION OF THE ORIGINAL CHANNEL OR THE GRADIENT OF THE PIPE, WHICHEVER IS LOWER. THE FINISHED STREAM CHANNEL SHALL HAVE A CONSISTENT GRADE WITH NO SUDDEN ELEVATION CHANGES, FALLS, OR POOLS. EXCAVATE ADJACENT BANK MATERIAL AT THE LOCATIONS SHOWN ON THE DRAWING. FINISHED BANKS SHALL BE SLOPED TO THE ORIGINAL STREAM BANK CONTOURS, OR TO 1:2 (RISE:RUN), WHICHEVER IS STEEPER. EXCAVATION SHALL BE INCIDENTAL TO PAY ITEM 648(04), "PLACED STREAMBED SIMULATION ROCK." EXCAVATION SHALL BE APPROVED BY THE CONTRACTING OFFICER PRIOR TO PLACEMENT OF STREAMBED SIMULATION MATERIAL.
5. CONTRACTOR SHALL PLACE STREAMBED SIMULATION MATERIAL TO SIMULATE A NATURAL STREAMBED, PROFILE, AND CROSS SECTION. SEE SECTION 648 "STREAMBED SIMULATION."
6. EXCAVATED MATERIAL SHALL BE USED TO CONSTRUCT AN EARTH BARRIER LOCATED ON 6N89Y. LOCATION SHALL BE AT LEAST 40 FT FROM THE EDGE OF FINISHED STREAM BANK ON THE 5N14 SIDE OF THE STREAM, OR AS STAKED BY THE CONTRACTING OFFICER. ADDITIONAL EXCAVATION MATERIAL SHALL BE PLACED ON ADJACENT ROADBED AND CUT SLOPE, OR AS DESIGNATED BY THE CONTRACTING OFFICER.
7. CONSTRUCT ENERGY DISSIPATING ROCK WEIRS AT STATIONS 1+00, 1+25, AND 1+50, AS SHOWN ON THE PROFILE DRAWING. SEE "ENERGY DISSIPATING ROCK WEIR" DETAIL. ROCK WEIRS SHALL EXTEND ACROSS THE LIMITS OF THE STREAM BED (25 FT). CONSTRUCTION OF ROCK WEIRS SHALL BE PAID UNDER PAY ITEM 648(56); MATERIAL IS INCIDENTAL.

LITTLE RATTLESNAKE SIMULATED STREAM CHANNEL AND WEIR LOCATIONS – PLAN VIEW

SCALE: 1"=20'

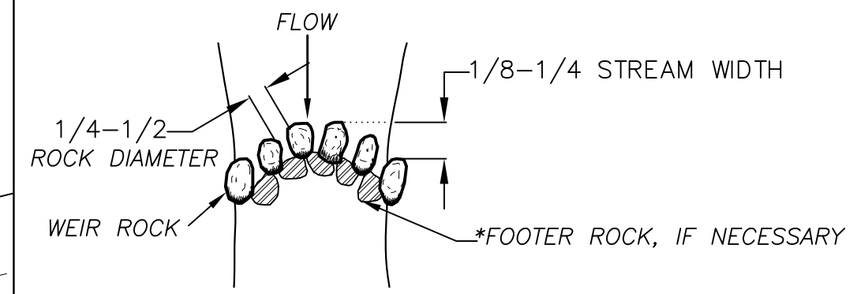


NOTE:
STA 1+00 CORRELATES TO THE LOCATION OF THE PREVIOUSLY REMOVED CULVERT INLET. STA 1+50 IS LOCATED AT THE END OF THE EXISTING SCOUR POOL.

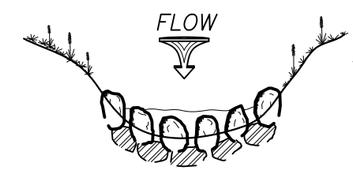
DIAMETER OF PIPE REMOVED	SIDE DIMENSION OF ROCK TO BE PLACED
24" OR LESS	12" MINIMUM
30"–54"	24" MINIMUM
60" OR MORE	36" MINIMUM

ENERGY DISSIPATING ROCK WEIR TYPICAL

NTS



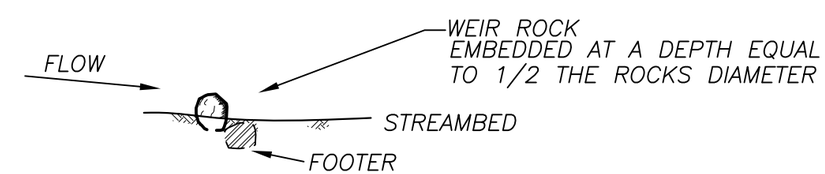
PLAN VIEW



* IF WEIR ROCK IS LESS THAN 2' DIAMETER, FOOTER ROCKS SHALL ALSO BE USED.

CROSS SECTION

NOT TO SCALE



PROFILE VIEW

THE PLACEMENT OF THE ROCKS IS VERY CRITICAL TO THE CORRECT FUNCTION OF THE STRUCTURE. LOCATIONS OF ROCK WEIRS SHALL BE APPROVED BY THE CONTRACTING OFFICER PRIOR TO PLACEMENT.

ROCK WEIRS SHALL EXTEND ACROSS THE LIMITS OF THE STREAM BED (25 FT).

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

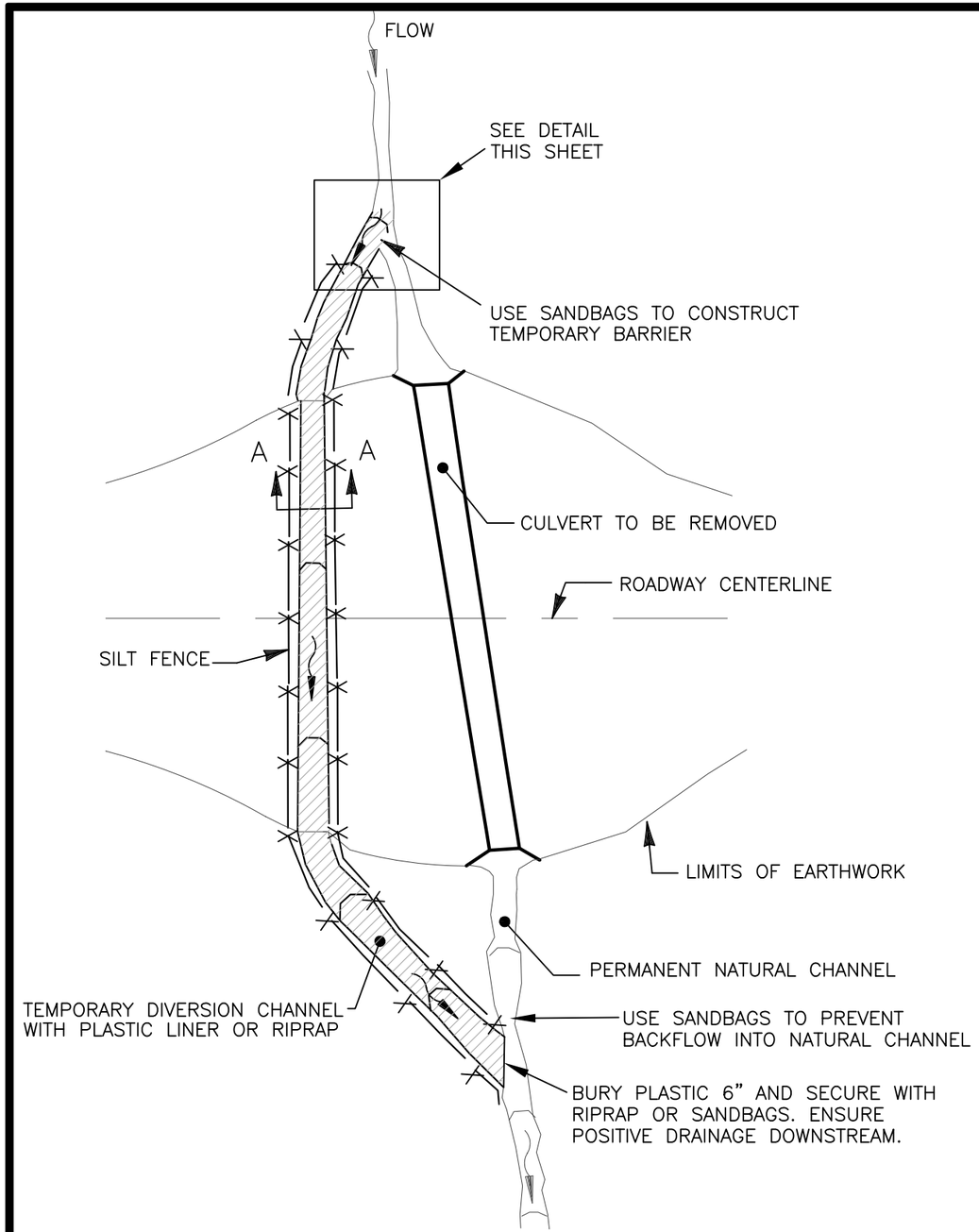
Drawn D. ROMERO
Designed
Reviewed
Approved

NO.	Revisions DESCRIPTION	DATE	BY

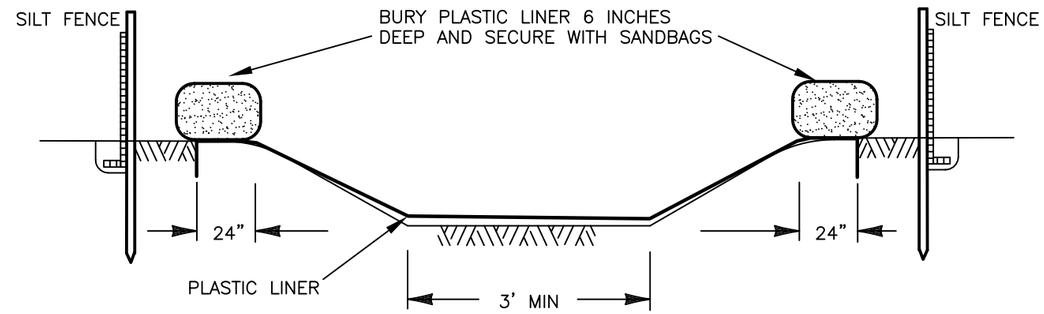
Forest STANISLAUS
Project Name SOUTH MEDUSA STEWARDSHIP

Sheet Title ENERGY DISSIPATING ROCK WEIR DETAIL
Scale AS NOTED

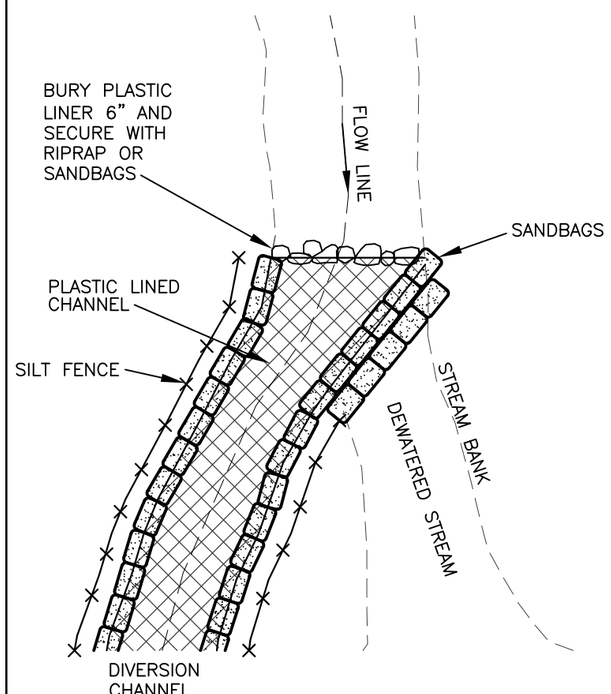
Sheet 24 of 36



DIVERSION CHANNEL–PLAN VIEW
NTS



SECTION A–A
NTS



TEMPORARY BARRIER DETAIL
NTS

NOTES –

1. CONTRACTOR SHALL PERFORM STREAM CROSSING DECOMMISSION ACTIVITIES AND DEWATERING BETWEEN THE DATES OF JULY 15 AND OCTOBER 31, AND NOT DURING RAIN EVENTS, UNLESS OTHERWISE APPROVED IN WRITING BY THE CONTRACTING OFFICER.
2. USE PLASTIC LINER ALONG THE ENTIRE LENGTH AND WIDTH OF THE TEMPORARY DIVERSION CHANNEL.
3. DEWATERING STRUCTURE SHALL ONLY BE USED DURING THE DESIGNATED MONTHS APPROVED FOR STREAM CROSSING DECOMMISSION.
4. CONSTRUCT CHANNEL AT A MINIMUM GRADE OF 0.5 PERCENT.
5. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO NOT ALLOW UNNECESSARY SEDIMENT TO MIX WITH THE ACTIVE STREAM COURSE.
6. DO NOT CONSTRUCT WITH LONGITUDINAL JOINTS IF USING A PLASTIC LINER. BURY THE UPSTREAM EDGE OF THE LINER A MINIMUM OF 6 INCHES DEEP AND SECURE WITH RIPRAP OR SANDBAGS.
7. DIVERSION CHANNEL SHALL BE 3' MIN WIDTH OR LARGER AS NEEDED TO DIVERT ALL STREAM WATER FROM THE STREAM CROSSING TO BE DECOMMISSIONED. A LARGER CHANNEL MAY BE REQUIRED IF THE CONTRACTOR ELECTS TO REMOVE THE STREAM CROSSING DURING HIGHER THAN AVERAGE SEASONAL FLOW. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER PRIOR TO CONSTRUCTION OF DEWATERING STRUCTURE.
8. CONTRACTOR SHALL REMOVE DEWATERING STRUCTURE WHEN THE STREAM CROSSING DECOMMISSION WORK ON SHEETS 23 AND 24 HAS BEEN SUCCESSFULLY COMPLETED AND APPROVED BY THE CONTRACTING OFFICER. REMOVE AND DISPOSE OF ALL DEWATERING STRUCTURE MATERIALS OFF OF FOREST SERVICE LAND.
9. CONTRACTOR SHALL USE EXCAVATED STREAM AND BANK MATERIAL GENERATED FROM STREAM CROSSING DECOMMISSION ACTIVITIES TO FILL THE DEWATERING CHANNEL UPON REMOVAL.
10. ALL MATERIALS AND LABOR ON THIS SHEET SHALL BE INCIDENTAL TO PAY ITEM 157(55) "DEWATERING STRUCTURE, PLASTIC LINED DIVERSION CHANNEL."

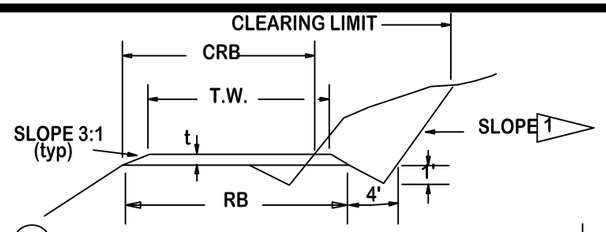
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R–5
PACIFIC SOUTHWEST REGION

Drawn
Designed
Reviewed
Approved

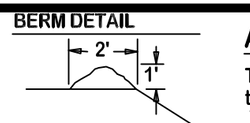
Revisions			
NO.	DESCRIPTION	DATE	BY

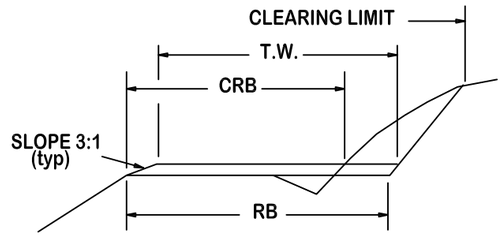
Forest: STANISLAUS
Project Name: SOUTH MEDUSA STEWARDSHIP

Sheet Title: DEWATERING STRUCTURE TYPICAL
Scale: NO SCALE
Sheet 25 of 36



1 WIDENING W/DITCH-CUT





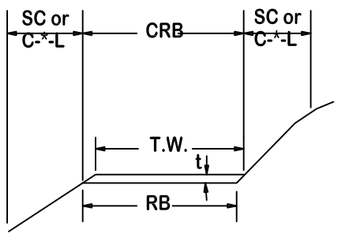
2 WIDENING W/O DITCH-CUT

ABBREVIATIONS:

T.C.= TOLERANCE CLASS
t= COURSE DEPTH
T.W.= TRAVELED WAY
R.B.= ROADBED
CRB= CLEAR EXISTING ROADBED AND DITCHES
No.=NUMBER
SC= SELECT CLEAR
L or R= LEFT OR RIGHT
NR= NARROW ROAD
L= LAYER
CW= CURVE WIDEN
WR= WIDEN ROAD

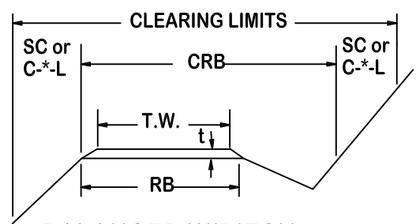
ROAD TEMPLATE TABLE

Road No.	R.B. 5	t 6	T.W. 4	REMARKS
5N14	20'–22'		20'–22'	
5N14G	14'		14'	
5N14H	14'		14'	
6N08	20'–24'		20'–24'	
6N08A	14'		14'	
6N23Y	14'		14'	
6N89Y	14'		14'	

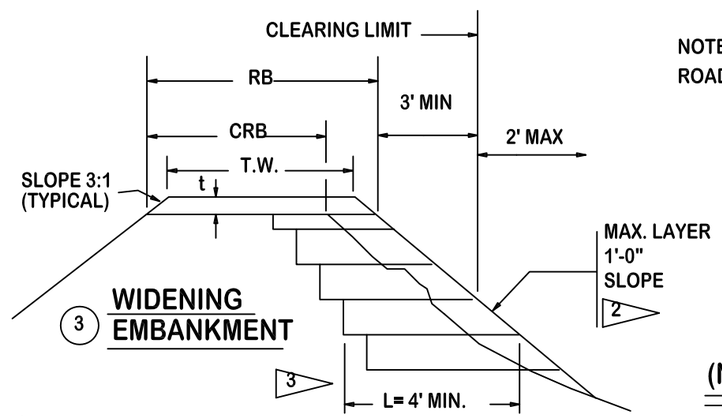


BALANCED W/O DITCH 4

NOTE: All aggregate base is grading 2.
ROAD WIDENING FOR WR, CW, TURNOUT OR DOUBLE LANE SEE THIS SHEET FOR DETAILS 1 2 3
EXISTING STANDARD SEE THIS SHEET FOR DETAILS 4 5 6 7



5 BALANCED W/DITCH

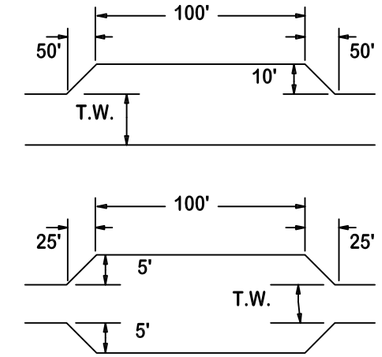


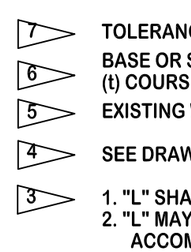
3 WIDENING EMBANKMENT

NOTES:

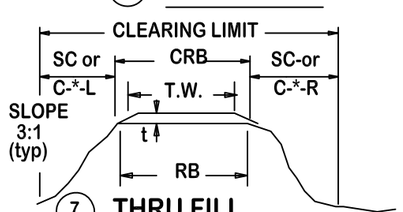
1. SEE MAINTENANCE DRAWING SHEETS FOR REQUIRED WIDTH.
2. SEE MAINTENANCE TYPICAL SECTIONS FOR BERM, ROADWAY DITCH, AND SLOPE ROUNDING DETAILS.
3. ** OR LENGTH SHOWING ON DRAWINGS.
4. MAINTAIN EXISTING ROAD SLOPE UNLESS SHOWN OHTERWISE.

TURNOUT DETAILS





6 THRU CUT



7 THRU FILL

7 TOLERANCE CLASS

6 BASE OR SURFACE COURSE DEPTH, SEE DRAWINGS FOR (t) COURSE DEPTH.

5 EXISTING WIDTH UNLESS DRAWINGS SHOW OTHERWISE

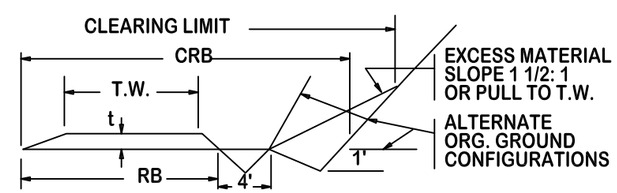
4 SEE DRAWINGS FOR CURVE WIDENING LOCATIONS.

3
1. "L" SHALL ACCOMODATE THE COMPACTING EQUIPMENT
2. "L" MAY BE WIDENED BY END DUMPING IN ORDER TO ACCOMODATE COMPACTING EQUIPMENT. THE REMAINDER OF THE EMBANKMENT SHALL BE PLACED AS SPECIFIED.
3. PRIOR TO END DUMPING, SCARIFY THE ORIGINAL GROUND.

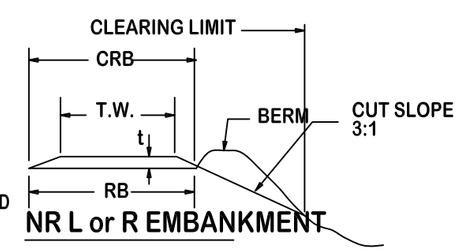
2 FILL SLOPE - ROCK 1 1/3:1
COMMON 1 1/2:1
OR MATCH EXISTING SLOPE:

1 CUT SLOPE - SOLID ROCK 1/4:1
LOOSE ROCK 1/2:1
COMMON 1 1/2:1
CONSTRUCT AS STAKED

(NR L or R) NARROW ROAD STD.



NR-L or R CUT SIDE



NR L or R EMBANKMENT

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R–5
PACIFIC SOUTHWEST REGION

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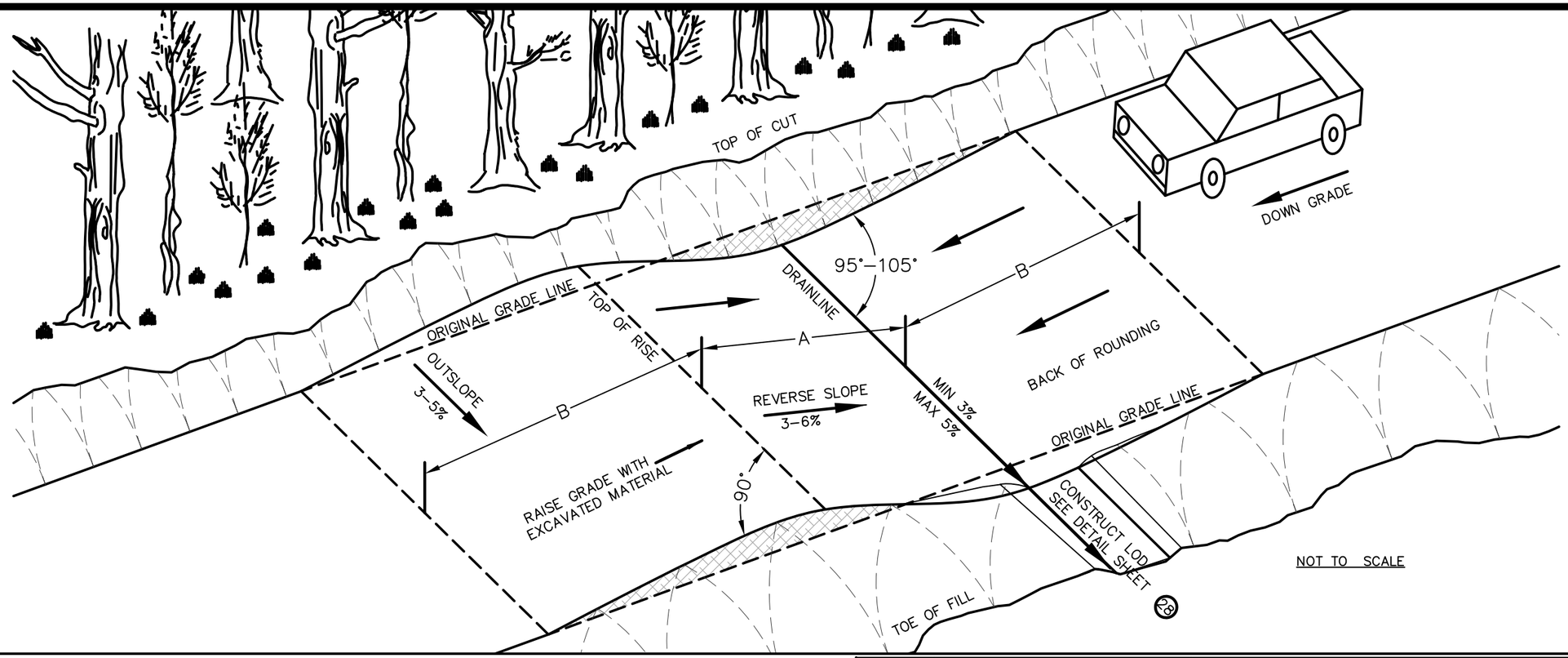
Approved

NO.	Revisions DESCRIPTION	DATE	BY

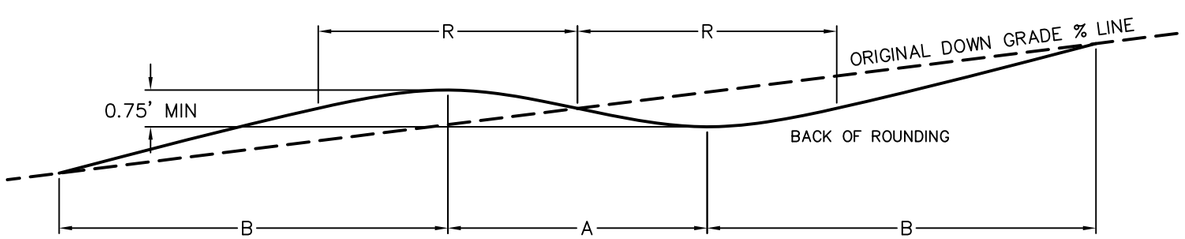
Forest STANISLAUS
Project Name SOUTH MEDUSA STEWARDSHIP

Sheet Title ROAD MAINTENANCE OR RECONSTRUCTION SECTION DETAILS
Scale SCALE AS NOTED
Sheet 26 of 36



NOT TO SCALE

DOWN GRADE	LOWBOY				LOG TRUCK				4X4 (FIRE ENGINE)			
%	LENGTH	TAPER	ROUNDING		LENGTH	TAPER	ROUNDING		LENGTH	TAPER	ROUNDING	
	A	B	%	R	A	B	%	R	A	B	%	R
0–5	30	30	7	30	20	25	10	20	10	10	19	10
6–8	30	50	7	30	20	40	10	20	10	15	19	10
CHORD LENGTH FOR ROUNDING				15				15				5

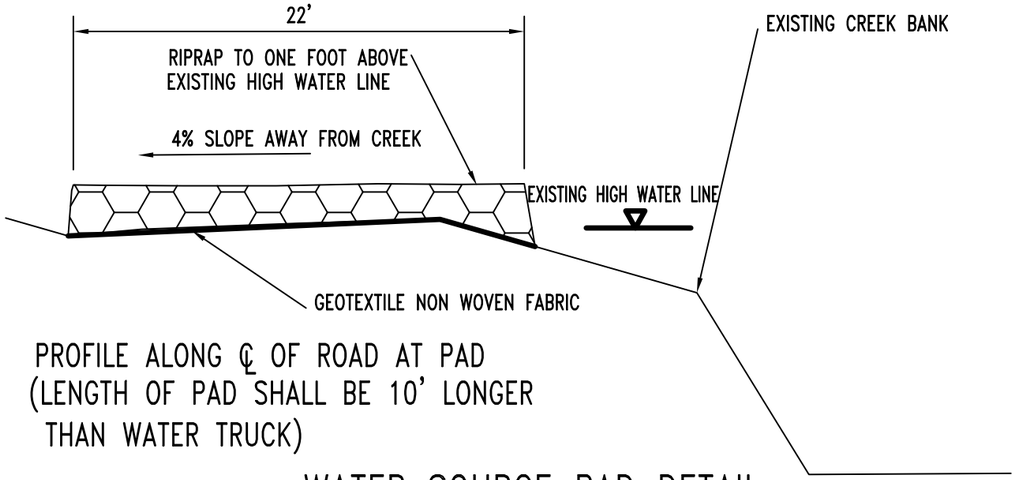


CENTERLINE PROFILE

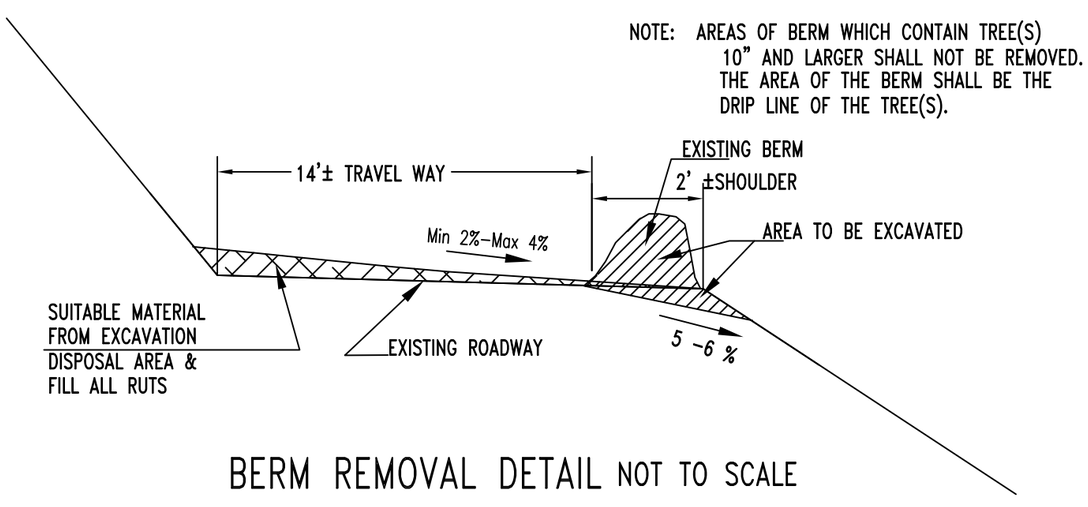
NOT TO SCALE

NOTES

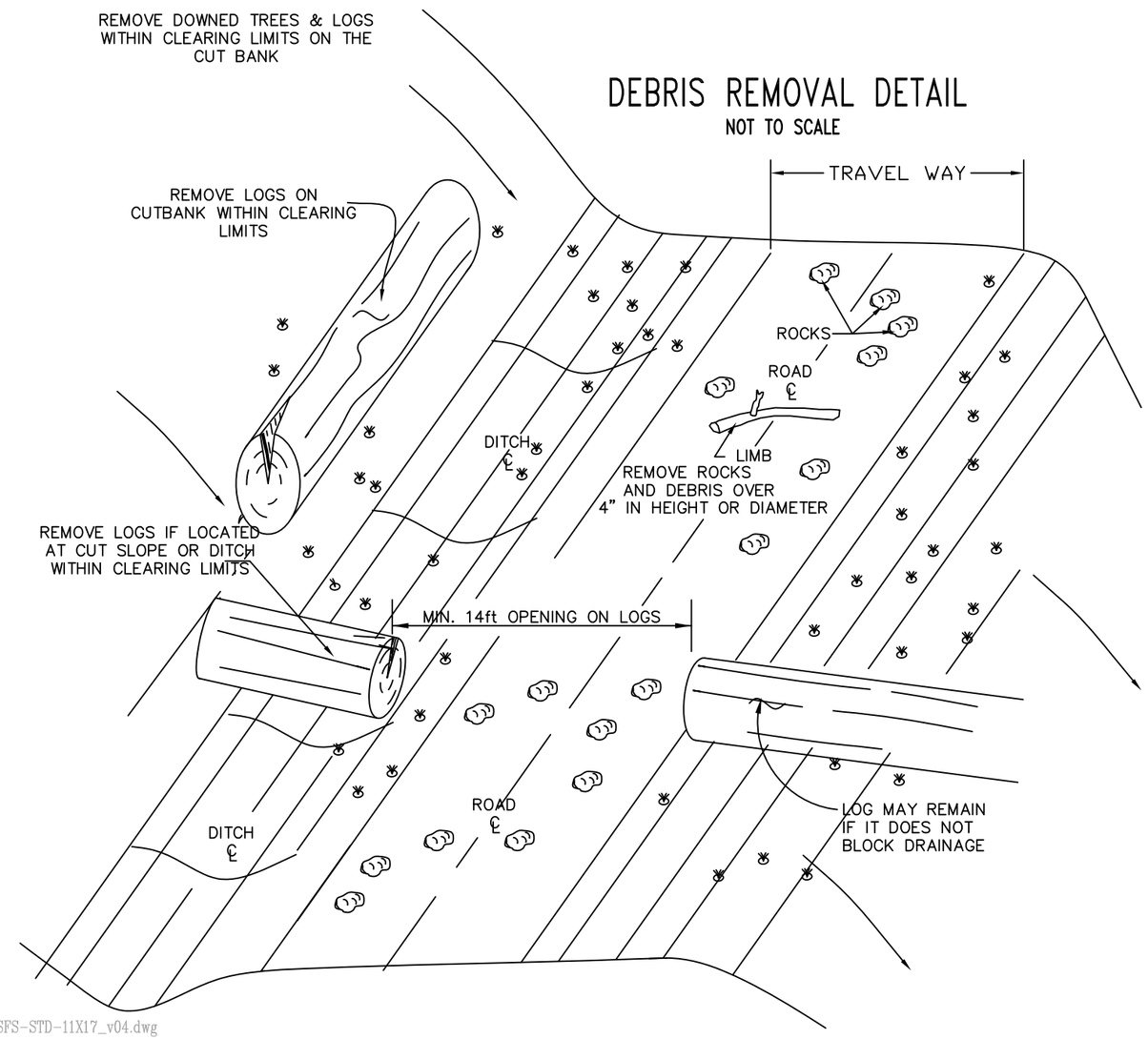
- OUTSLOPE OF DRAINLINE: MIN 3%; MAX: 5%. OUTSLOPE OF DIP: MIN 3%; MAX: 5%
- UNLESS OTHERWISE SPECIFIED, CONSTRUCT DIP TO "LOWBOY" STANDARDS
- SKEW OF DRAINLINE SHALL BE 5 TO 15 DEGREES DOWN GRADE
- WHEN RIPRAP IS SPECIFIED AT OUTLET, IT SHALL BE SHAPED TO ASSURE WATER GOES ONTO RIPRAP, NOT AROUND. INSTRUMENT SHALL BE USED TO DETERMINE LOW POINT
- RIPRAP TOP ELEVATION SHALL BE AT TOP OF FINISHED OUTLET GRADE, NOT SUBGRADE
- TAPER LENGTHS SHALL BE WITHIN 10% OF LISTED LENGTHS
- DIP SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN PRIOR TO PLACEMENT OF AGGREGATE COURSE
- BERM SHALL BE CONSTRUCTED 50–LF FROM EACH SIDE OF DRAIN OPENING. BERM SHALL BE A MINIMUM HEIGHT OF 12" AND SHALL BE COMPACTED.
- ENTIRE LENGTH OF DIP SHALL BE COMPACTED ACCORDING TO SUBSECTION 204.11(A)(1)



WATER SOURCE PAD DETAIL
NOT TO SCALE



BERM REMOVAL DETAIL NOT TO SCALE



DEBRIS REMOVAL DETAIL
NOT TO SCALE

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U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

Drawn E. SETNESS & M.SCHAFER
Designed
Reviewed
Approved

Revisions			
NO.	DESCRIPTION	DATE	BY

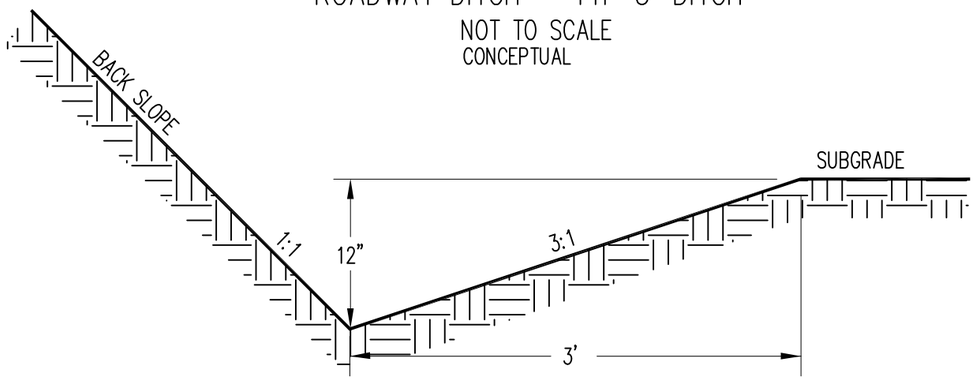
Forest
STANISLAUS
Project Name
SOUTH MEDUSA STEWARDSHIP

Sheet Title
BERM & DEBRIS REMOVAL & OUTSLOPING ROAD & CONSTRUCTION OF WATER SOURCE PAD
Scale
NOT TO SCALE

Sheet
28
of 36

ROADWAY DITCH- TYP 3' DITCH

NOT TO SCALE
CONCEPTUAL

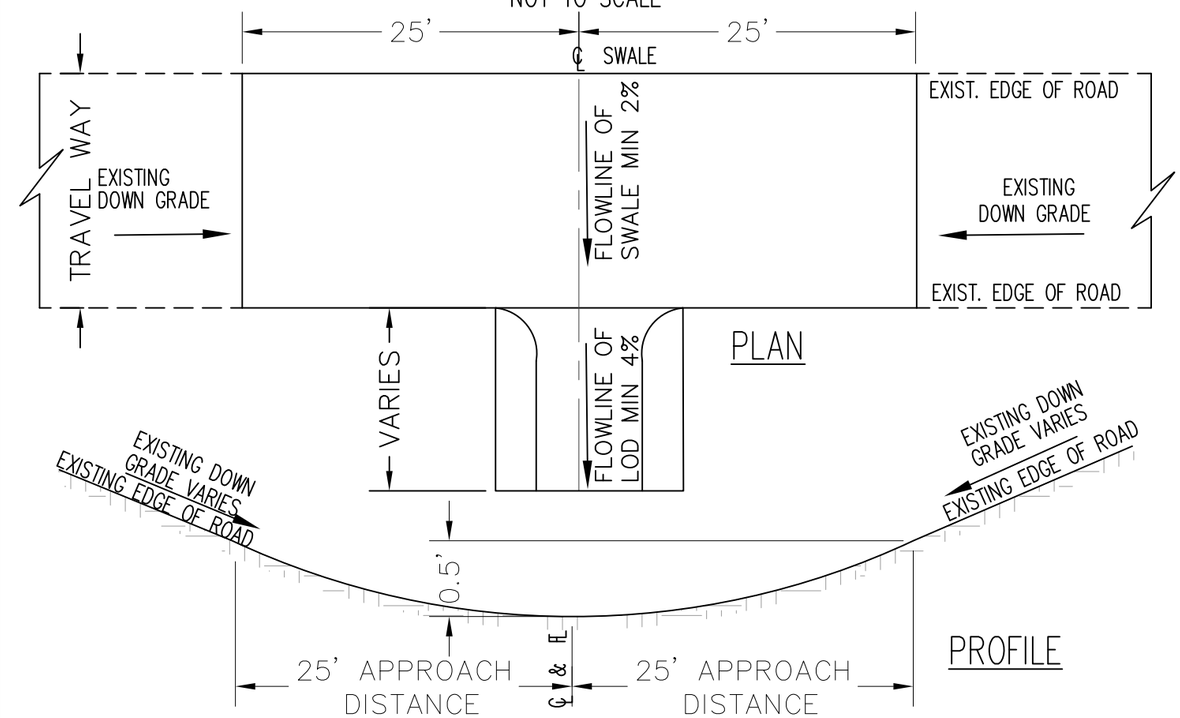


GENERAL NOTES:

1. WHEN POSSIBLE, UTILIZE SUITABLE EXCAVATED MATERIAL IN ROADBED.

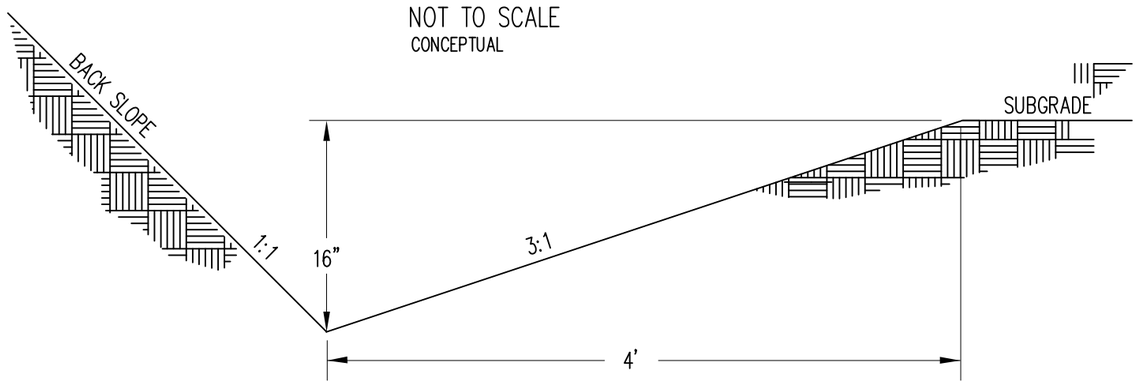
GRADED SWALE

NOT TO SCALE



ROADWAY DITCH- TYP 4' DITCH

NOT TO SCALE
CONCEPTUAL



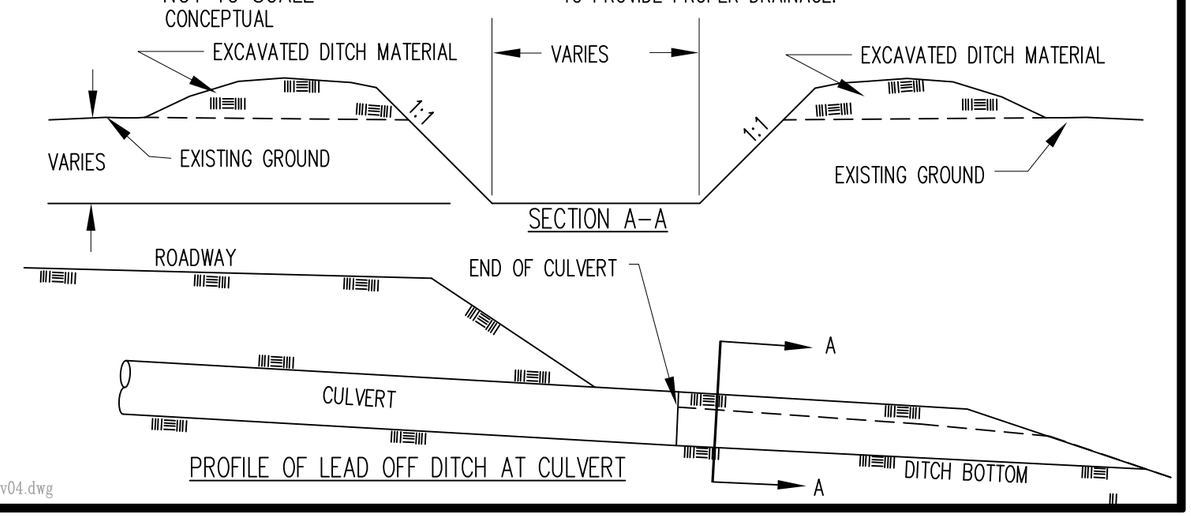
GENERAL NOTES:

1. WHEN POSSIBLE, UTILIZE SUITABLE EXCAVATED MATERIAL IN ROADBED.

LEAD OFF DITCH AT CULVERT

NOT TO SCALE
CONCEPTUAL

1. LEAD OFF DITCH BOTTOM SHALL BE SLOPED TO PROVIDE PROPER DRAINAGE.



PROFILE OF LEAD OFF DITCH AT CULVERT

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FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

Drawn E. SETNESS & M.SCHAFER
Designed
Reviewed
Approved

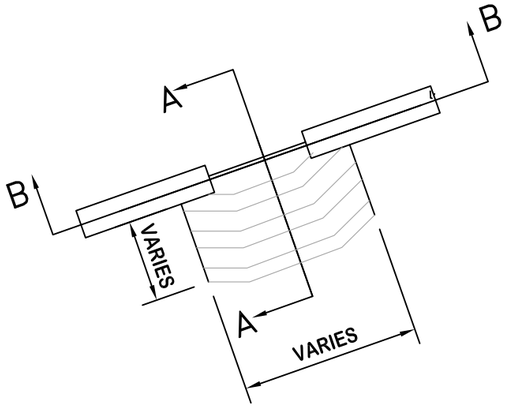
Revisions			
NO.	DESCRIPTION	DATE	BY

Forest STANISLAUS
Project Name SOUTH MEDUSA STEWARDSHIP

Sheet Title
DITCH TYPICALS
GRADED SWALES
LOD AT CULVERT

Scale NOT TO SCALE

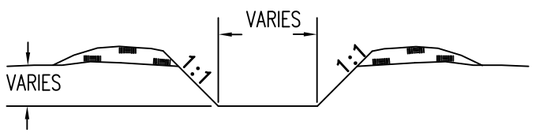
Sheet 29 of 36



TYPICAL LEAD OFF DITCH

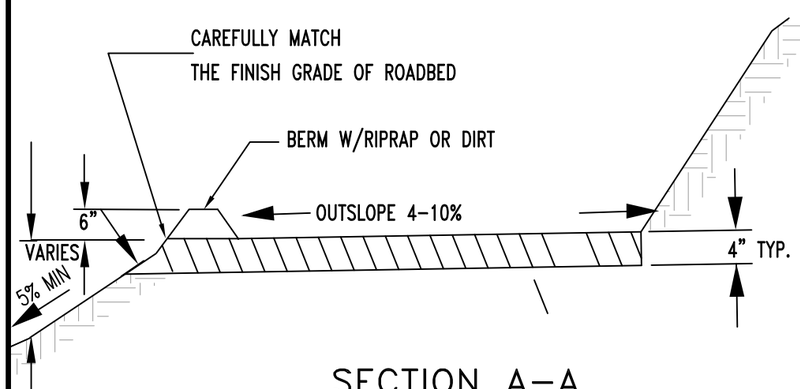
NO SCALE

1. LEAD OFF DITCH BOTTOM SHALL BE SLOPED TO PROVIDE PROPER DRAINAGE.
2. LOD LENGTH VARIES DEPENDING ON FIELD CONDITIONS. CONSTRUCT LOD LENGTH TO DAYLIGHT ON FILL SLOPE.



SECTION B–B

NO SCALE

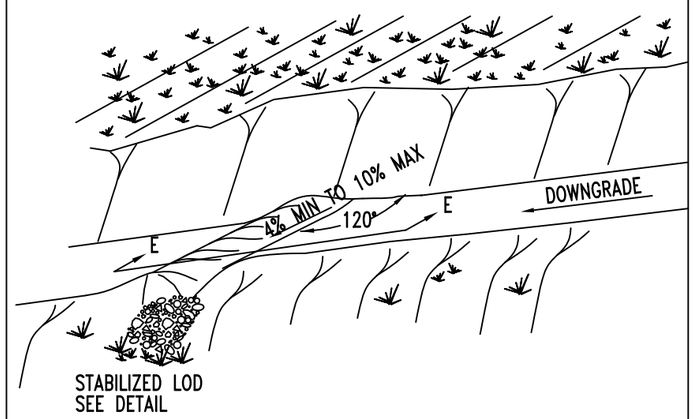


SECTION A–A W/O RIPRAP

NO SCALE

DRIVEABLE WATERBAR

FOR HIGH CLEARANCE VEHICLES



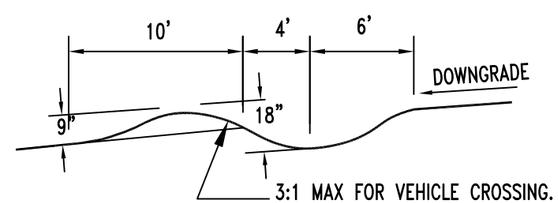
NOTES – DRIVEABLE WATERBAR:

1. ALL WATER BARS SHALL BEGIN AT THE INTERSECTION OF THE ROAD BED WITH THE BACK SLOPE AND RUN ACROSS THE ENTIRE WIDTH OF THE ROAD BED.

2. ALL WATER BARS SHALL HAVE FREE FLOWING OUTLETS. CONSTRUCTION OF LEAD–OFF DITCHES ARE INCIDENTAL TO WATER BAR CONSTRUCTION

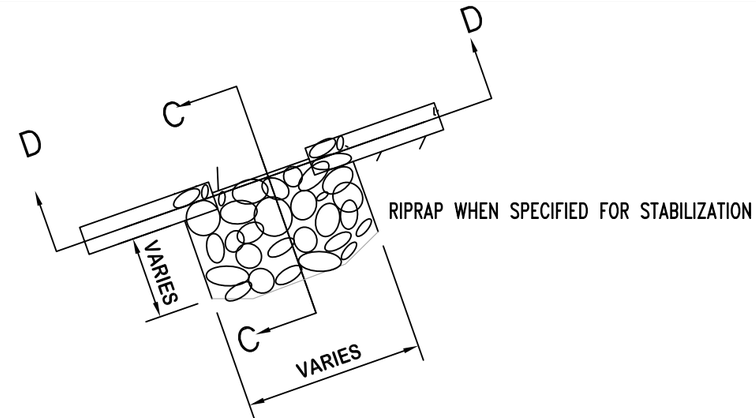
3. WATER NOT TO BE DISCHARGED ON FILLS GREATER THAN 3 FEET IN HEIGHT.

4. EXCAVATED MATERIAL TO BE SPREAD OUT ON ROADBED.



SECTION E–E

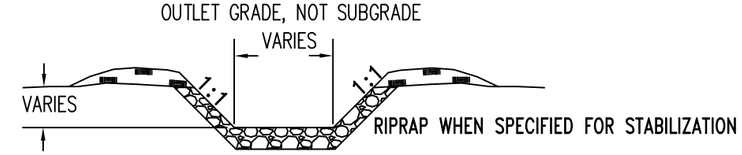
NO SCALE



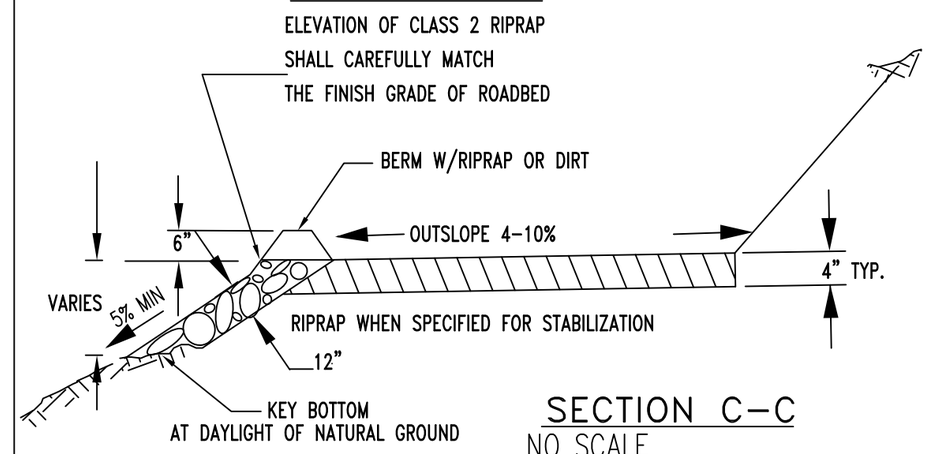
LEAD OFF DITCH WITH RIPRAP STABILIZATION

NO SCALE

1. LEAD OFF DITCH BOTTOM SHALL BE SLOPED TO PROVIDE PROPER DRAINAGE.
2. WHEN RIPRAP IS SPECIFIED AT OUTLET, IT SHALL BE SHAPED TO ASSURE WATER GOES ONTO RIPRAP, NOT AROUND. INSTRUMENT SHALL BE USED TO DETERMINE LOW POINT
3. WHEN RIPRAP IS SPECIFIED– TOP ELEVATION SHALL BE AT TOP OF FINISHED OUTLET GRADE, NOT SUBGRADE



SECTION D–D NO SCALE



SECTION C–C

NO SCALE

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U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R–5
PACIFIC SOUTHWEST REGION

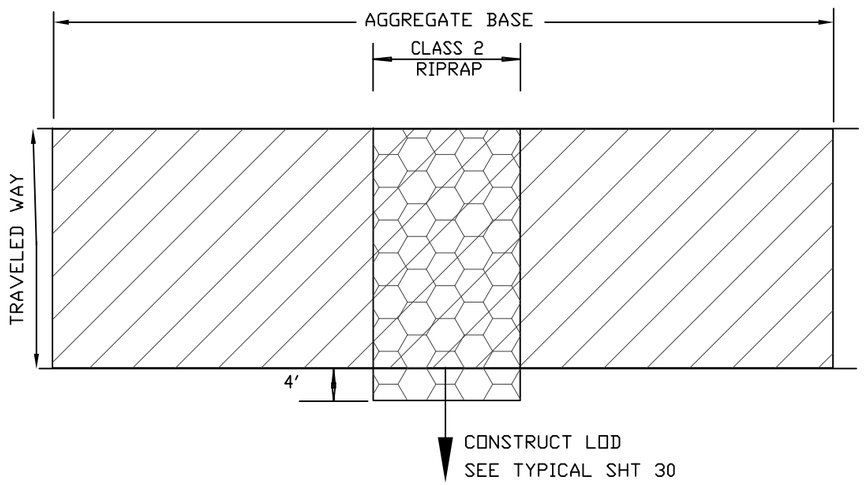
Drawn E. SETNESS & M.SCHAFER
Designed
Reviewed
Approved

Revisions			
NO.	DESCRIPTION	DATE	BY

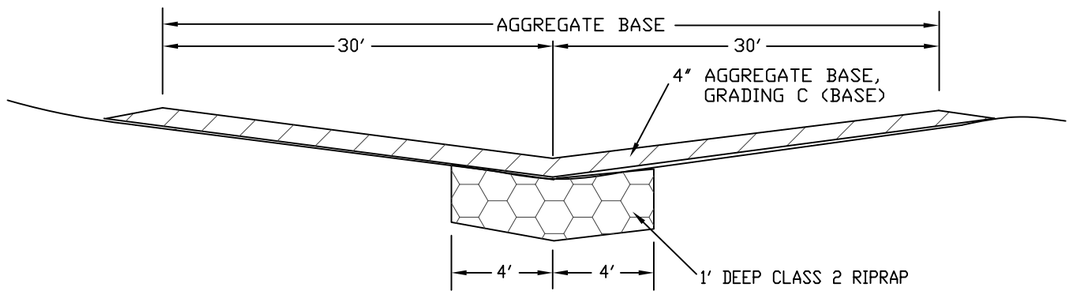
Forest STANISLAUS
Project Name SOUTH MEDUSA STEWARDSHIP

Sheet Title MAINTENANCE OR RECONSTRUCTION OF DRIVEABLE WATERBARS AND LEAD OFF DITCHES
Scale NOT TO SCALE

Sheet 30 of 36



PLAN



NOTE: CONSTRUCTION OF A ROCK DIP INCLUDES THE PLACEMENT OF AGGREGATE BASE (301(01)) AND RIPRAP, CLASS 2 (705(01)).

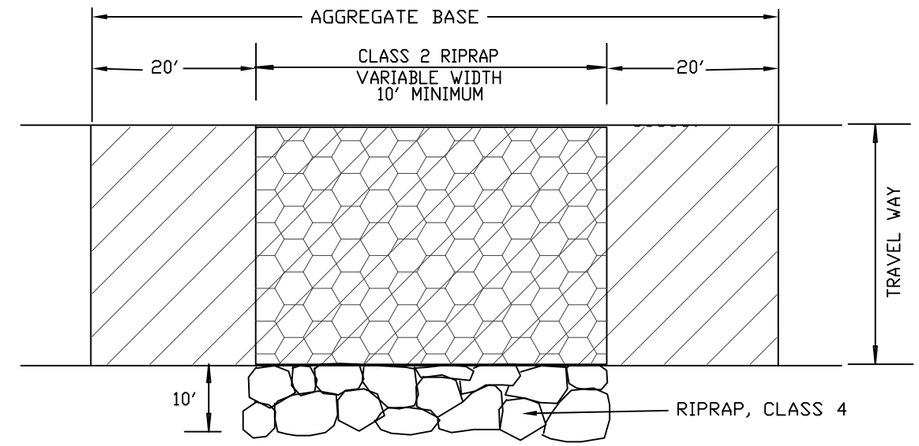
PROFILE

MATERIALS LIST:

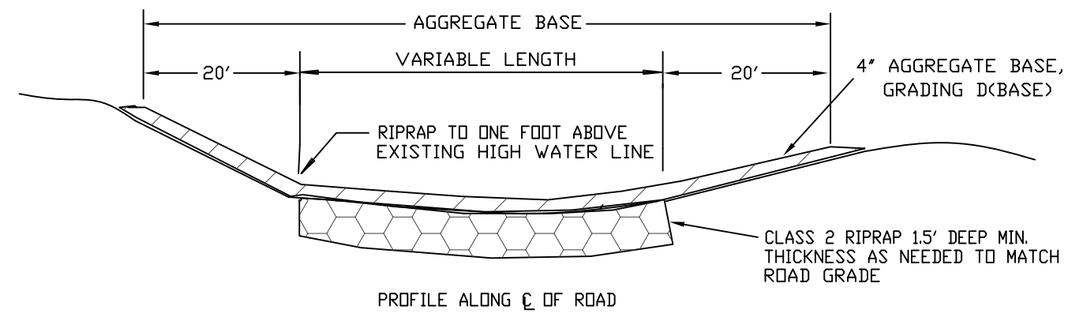
AGGREGATE BASE = 25 TONS
RIPRAP, CLASS 2 = 12 TONS

NOT TO SCALE

ROCK DIP



PLAN



PROFILE

NOTE: CONSTRUCTION OF RIPRAP DRAINAGE INCLUDES PLACEMENT OF AGGREGATE BASE, GRADING 2 (301(01)), RIPRAP, CLASS 2 (705(01)) AND RIPRAP, CLASS 4 (705(01)). MATERIALS INCIDENTAL TO PAY ITEM FOR RIPRAP DRAINAGE CONSTRUCTION.

NOTES:
-OUTSLOPE OF DRAINLINE: MIN 3%, MAX 5%
-RIPRAP DRAINAGE SHALL HAVE A MINIMUM DEPTH OF 1 FT FROM TOP OF CREST TO BOTTOM OF DRAINLINE.

NOT TO SCALE

RIPRAP DRAINAGE

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R-5
PACIFIC SOUTHWEST REGION

Drawn F. SETNESS & M.SCHAFER
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Reviewed
Approved

Revisions			
NO.	DESCRIPTION	DATE	BY

Forest
STANISLAUS
Project Name
SOUTH MEDUSA STEWARDSHIP

Sheet Title
ROCK DIP
RIPRAP DRAINAGE

Scale
NOT TO SCALE

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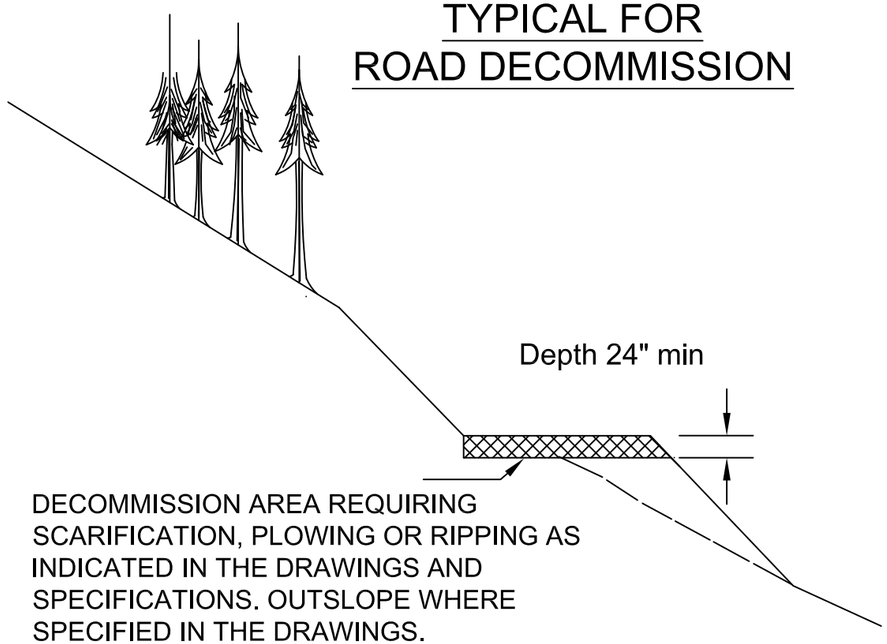
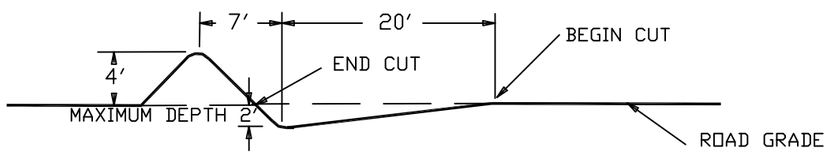
of 36

TYPICAL FOR ROAD DECOMMISSION



NON-DRIVEABLE WATERBAR



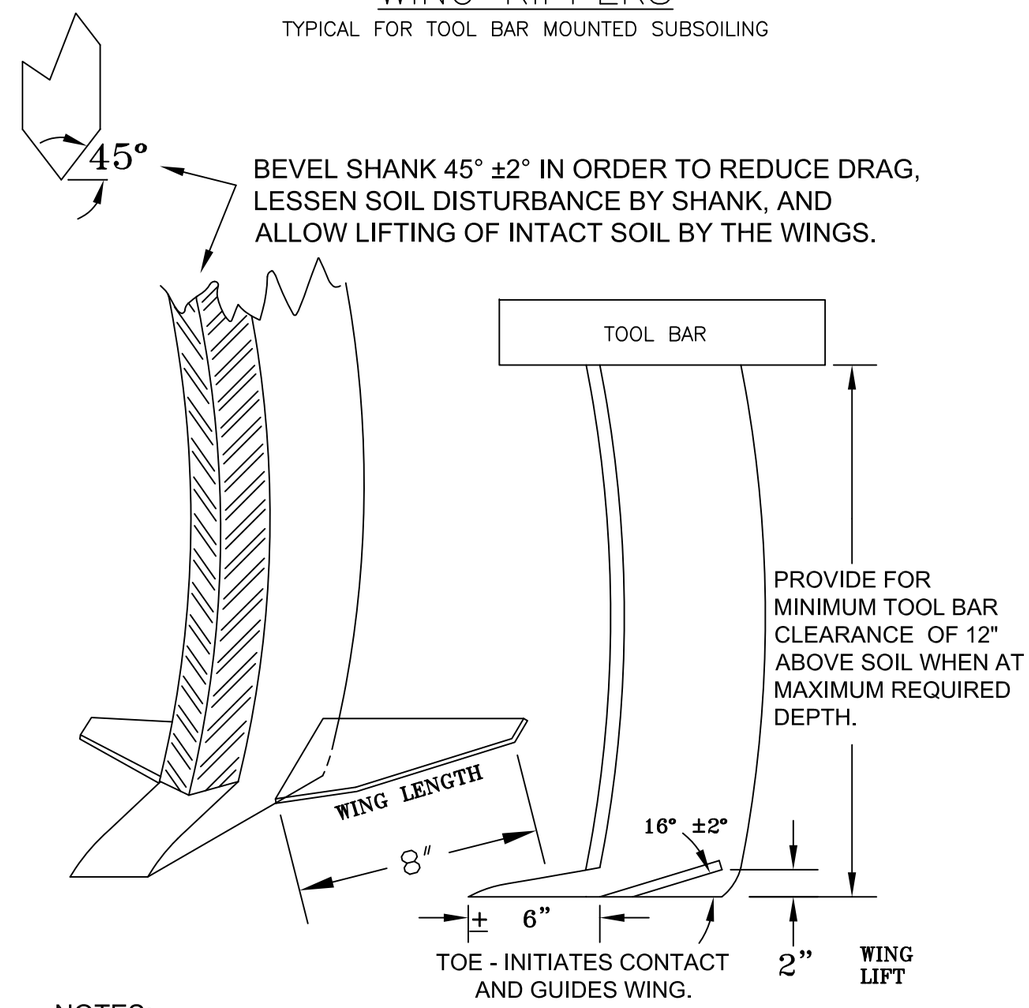
NOTES: WATERBARS

1. ALL WATER BARS SHALL BEGIN AT THE INTERSECTION OF THE ROAD BED WITH THE BACK SLOPE AND RUN ACROSS THE ENTIRE WIDTH OF THE ROAD BED.

2. ALL WATER BARS SHALL HAVE FREE FLOWING OUTLETS. CONSTRUCTION OF LEAD-OFF DITCHES ARE INCIDENTAL TO WATER BAR CONSTRUCTION

WING RIPPERS

TYPICAL FOR TOOL BAR MOUNTED SUBSOILING

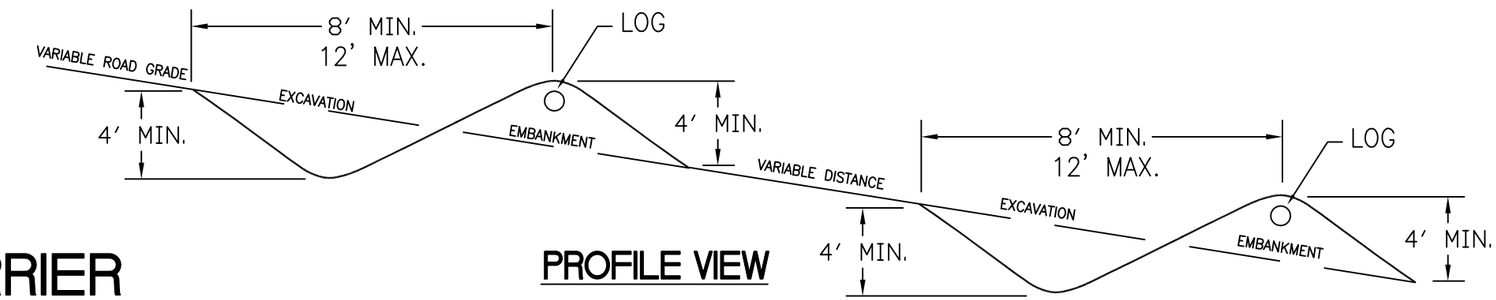


NOTES:

1) SHANK MAY BE CURVED OR STRAIGHT. INTENDED FOR USE WHEN OPERATING 3 SHANKS OVER AN 8' WIDTH. WINGS WITH TOO GREAT AN ANGLE OF LIFT CAN RESULT IN PLOWING EFFECT.

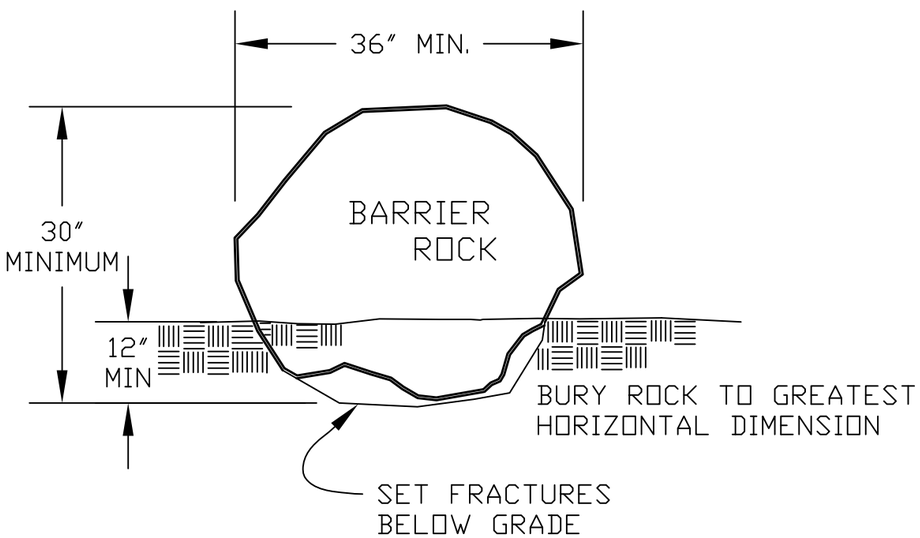
2) AN EXCAVATOR MAY BE USED IN LIEU OF WING RIPPER AND DOZER WHEN APPROVED IN WRITING BY THE CONTRACTING OFFICER.

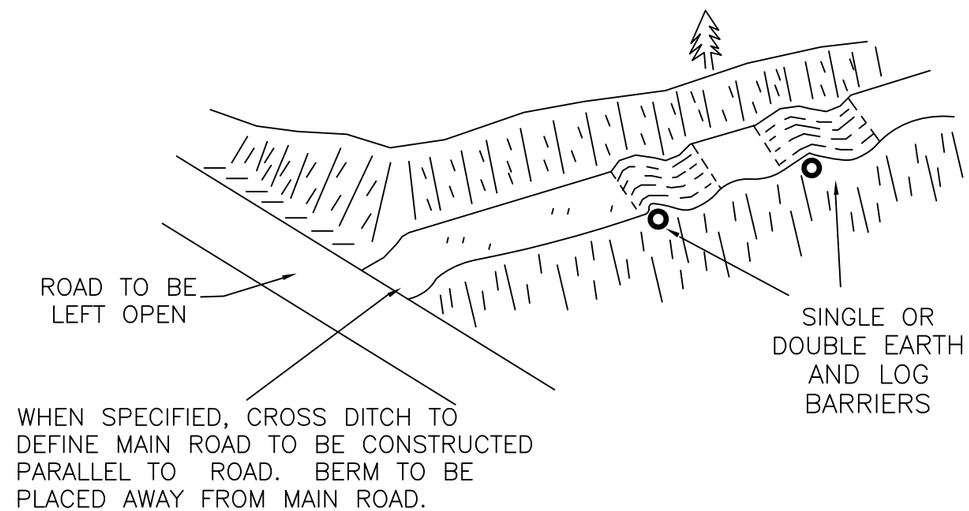
EARTH BARRIER DETAIL



PROFILE VIEW

ROCK BARRIER





NOTES

(1) BARRIER ROCKS SHALL BE A MINIMUM SIZE OF 30″ X 36″. NO LOCAL GOVERNMENT SOURCE IS AVAILABLE.

(2) DISTURBED EARTH BECAUSE OF INSTALLATION OF ROCK BARRIER SHALL BE BLENDED INTO THE SURROUNDING GROUND.

(3) WHEN LOCATION STAKES ARE USED, THEY DESIGNATE THE CENTER OF ROCK BARRIER.

NOTES

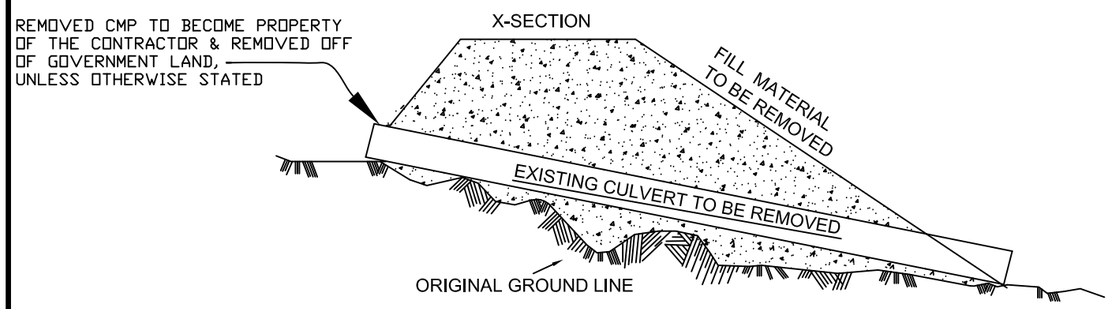
(1) PLACE 20” X 12’ LOG IN EMBANKMENT AND COVER WITH AT LEAST ONE FOOT OF EMBANKMENT MATERIAL. BOULDERS MAY BE USED IN LIEU OF LOGS WITH WRITTEN APPROVAL BY THE ENGINEER.

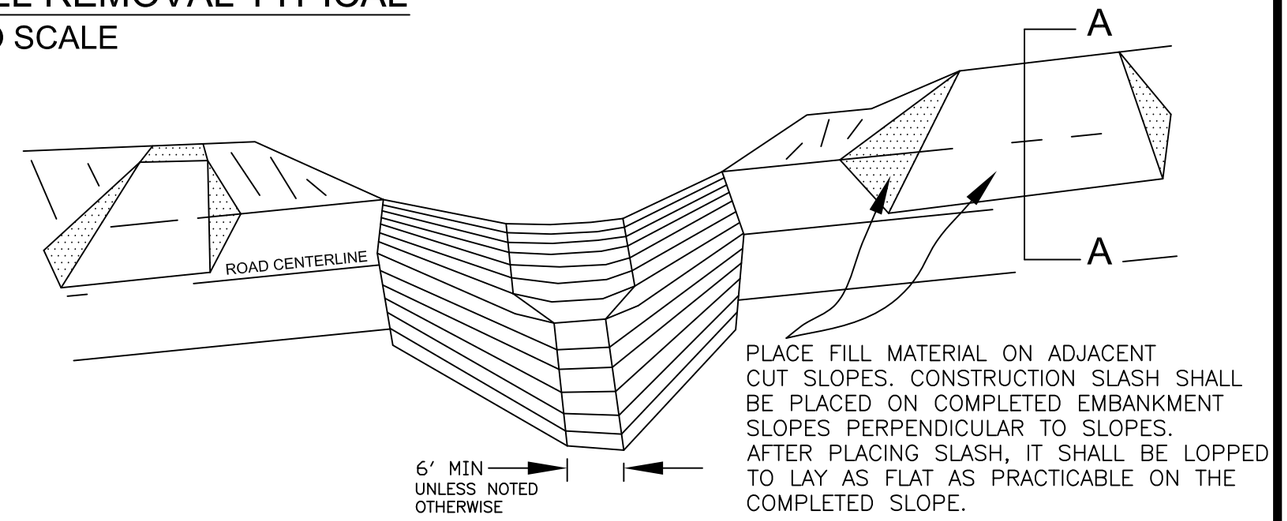
(2) ROAD BARRICADES SHALL BE CONSTRUCTED AT LOCATIONS STAKED BY THE ENGINEER.

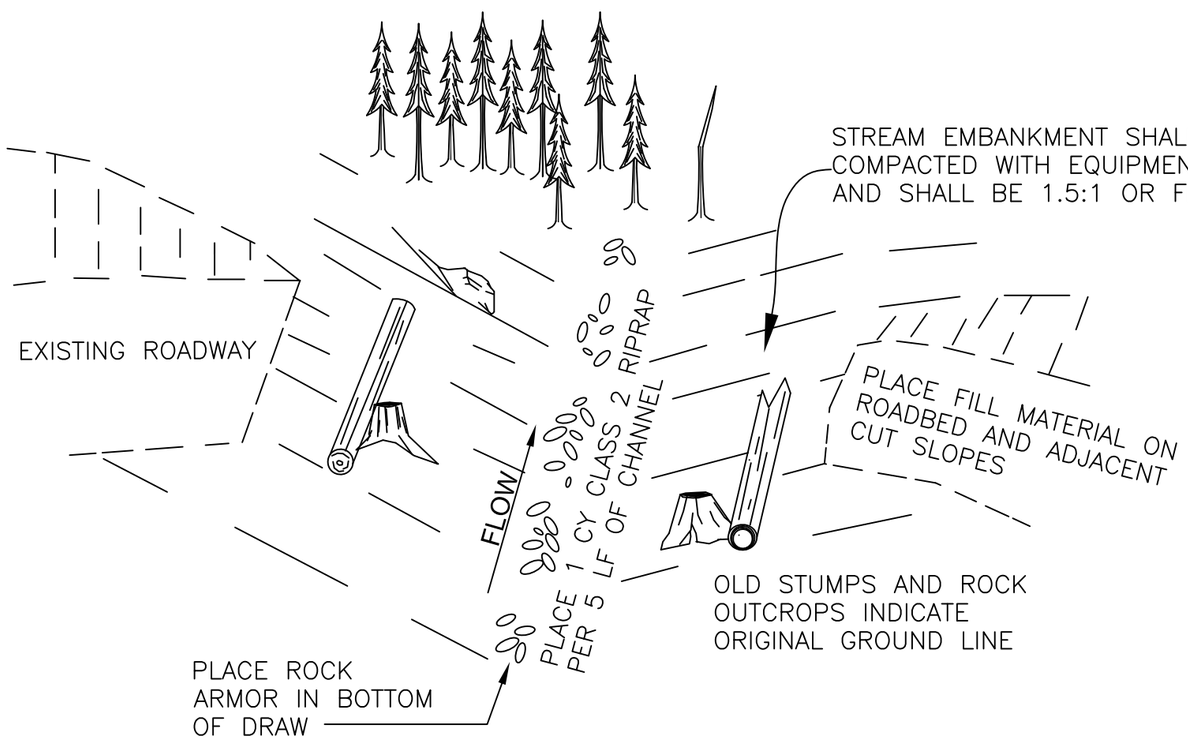
(3) DRAWINGS NOT TO SCALE.

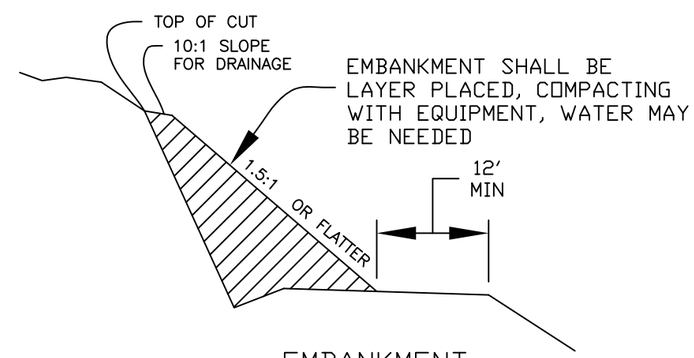
CULVERT AND FILL REMOVAL TYPICAL

NO SCALE





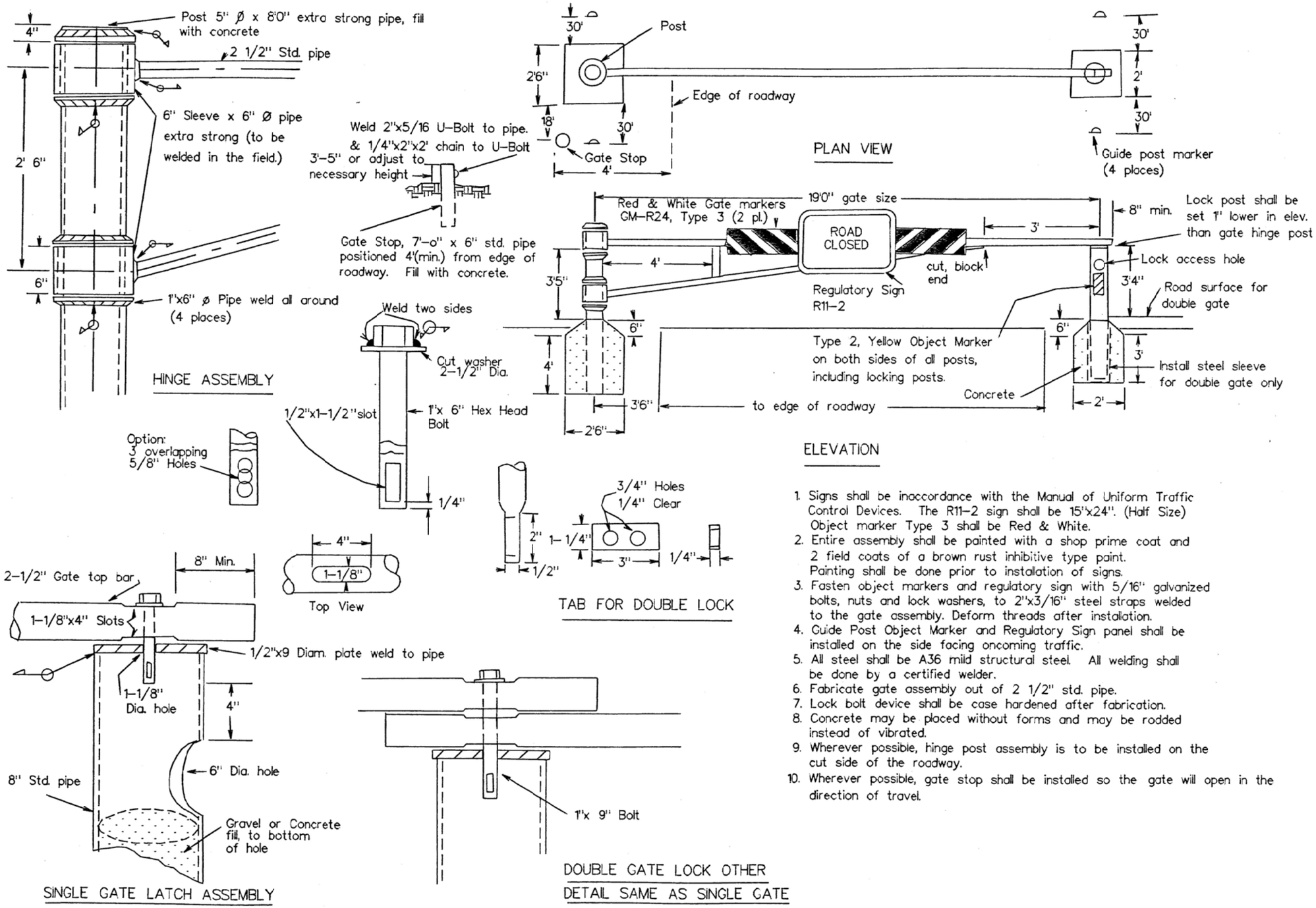




EMBANKMENT
CROSS SECTION 'A'-'A'

NOTES:

1) EXCAVATE TO ORIGINAL GROUND LINE.
2) REMOVE FILL MATERIAL.
3) PLACE 1 CY CLASS 2 RIPRAP PER 5 LF OF CHANNEL. LENGTH OF CHANNEL RESTORATION SHALL BE NOTED ON PLANS.
4) SCATTER SLASH AND DEBRIS ON FINISHED SLOPE AS DIRECTED BY THE CONTRACTING OFFICER.



1. Signs shall be inaccordance with the Manual of Uniform Traffic Control Devices. The R11-2 sign shall be 15"x24". (Half Size) Object marker Type 3 shall be Red & White.
2. Entire assembly shall be painted with a shop prime coat and 2 field coats of a brown rust inhibitive type paint. Painting shall be done prior to installation of signs.
3. Fasten object markers and regulatory sign with 5/16" galvanized bolts, nuts and lock washers, to 2"x3/16" steel straps welded to the gate assembly. Deform threads after installation.
4. Guide Post Object Marker and Regulatory Sign panel shall be installed on the side facing oncoming traffic.
5. All steel shall be A36 mild structural steel. All welding shall be done by a certified welder.
6. Fabricate gate assembly out of 2 1/2" std. pipe.
7. Lock bolt device shall be case hardened after fabrication.
8. Concrete may be placed without forms and may be rodded instead of vibrated.
9. Wherever possible, hinge post assembly is to be installed on the cut side of the roadway.
10. Wherever possible, gate stop shall be installed so the gate will open in the direction of travel.

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

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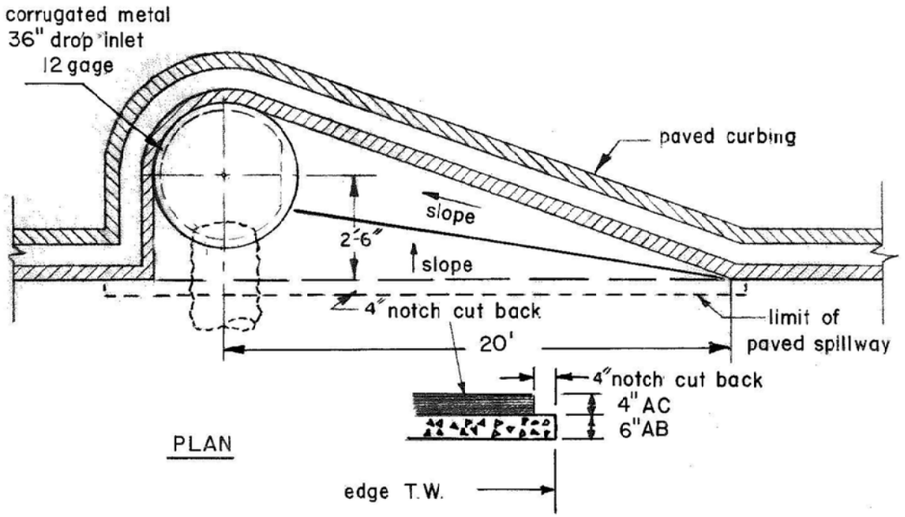
Revisions			
NO.	DESCRIPTION	DATE	BY

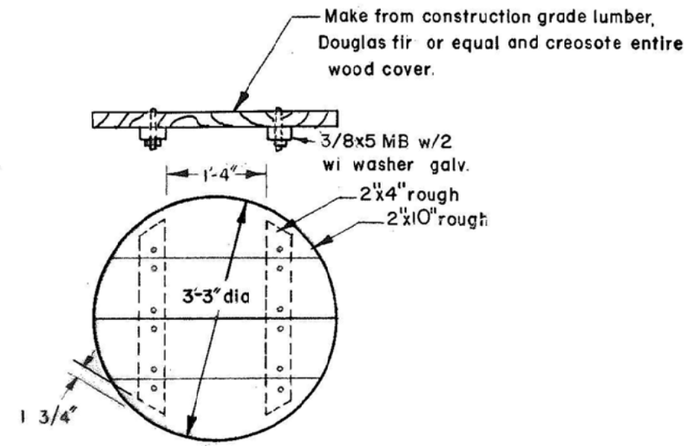
Forest: STANISLAUS
Project Name: SOUTH MEDUSA STEWARDSHIP

Sheet Title: GATE TYPICAL
Scale: NOT TO SCALE

Sheet 35 of 36



PLAN

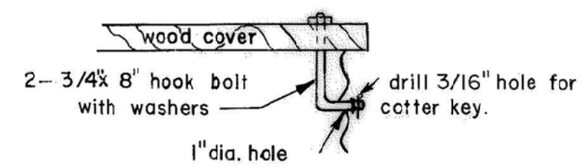


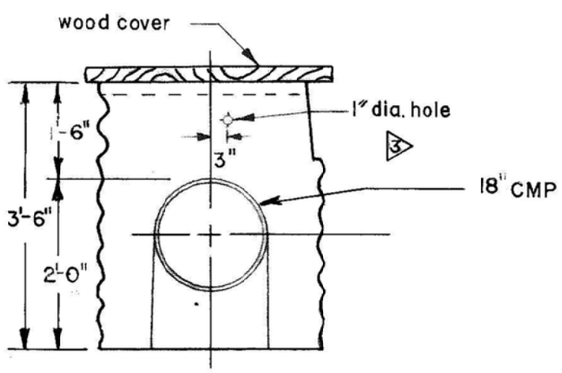
WOOD COVER 2

NOTES:

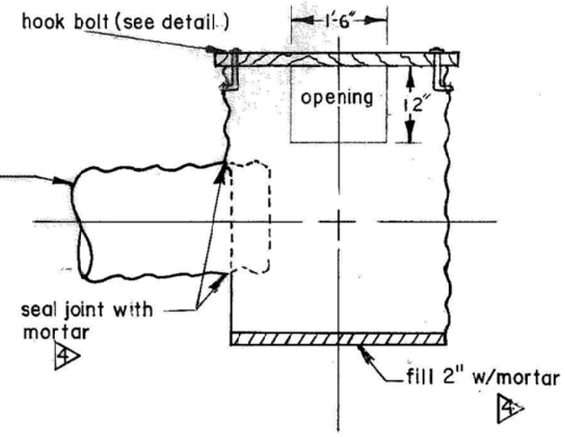
1. Warp cut slopes to meet bottom of curb.
2. Wood cover to be bolted or screw assembled.
3. 1" dia. hole, each side in 2nd corrugation valley.
4. Mortar shall consist of 1:5 cement to sand ratio.

HOOK BOLT DETAIL



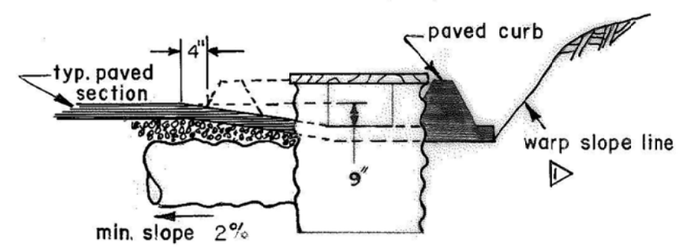


FRONT ELEVATION



SIDE ELEVATION

INSTALLATION



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R-5
PACIFIC SOUTHWEST REGION

Drawn
Designed
Reviewed
Approved

Revisions			
NO.	DESCRIPTION	DATE	BY

Forest
STANISLAUS
Project Name
SOUTH MEDUSA STEWARDSHIP

Sheet Title
DROP INLET TYPICAL

Scale
NOT TO SCALE

Sheet
36
of 36