



UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

PACIFIC NORTHWEST REGION

ROGUE RIVER-SISKIYOU NATIONAL FOREST

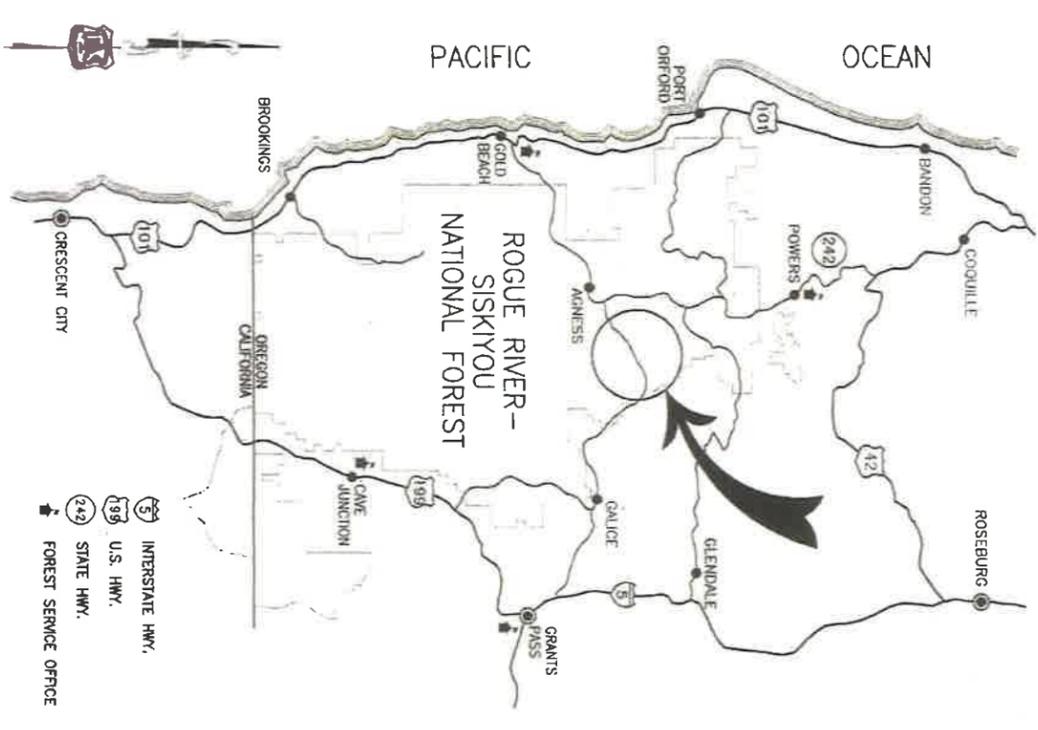
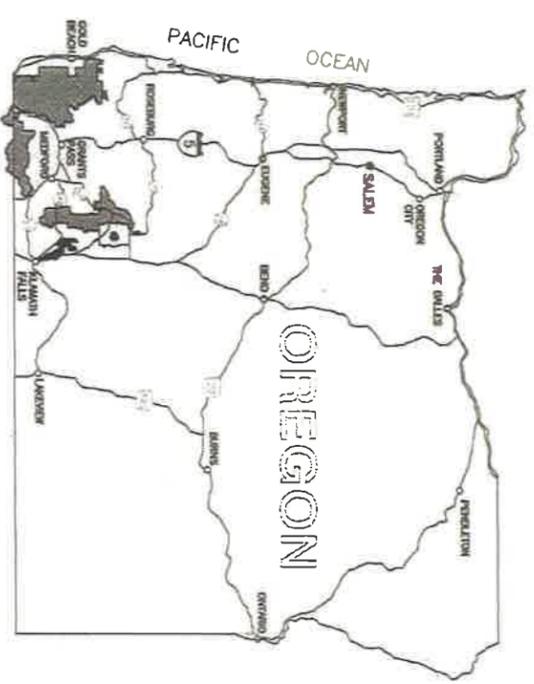
GOLD BEACH RANGER DISTRICT

COUNTY: CURRY

PLANS FOR PROPOSED

GREEN KNOB TIMBER SALE

DESIGNED BY: <i>Jela Penzler</i>	Date 5/14/16
PROJECT DESIGNER	
REVIEWED BY: <i>Just F. Blankenship</i>	Date 6/23/16
REVIEWER	
RECOMMENDED BY: <i>Just F. Blankenship</i>	Date 6/26/2016
ASSISTANT FOREST ENGINEER	
APPROVED BY: <i>Ray B. Bagston</i>	Date 6-30-16
WILDMAN STAFF OFFICER	
APPROVED BY: <i>[Signature]</i>	Date 6/30/2016
DISTRICT RANGER	
APPROVED BY: <i>[Signature]</i>	Date 6/30/16
FOREST SUPERVISOR	



PROJECT LOCATION MAP
Not to Scale

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**
District: **GOLD BEACH RANGER DISTRICT**

Design: Lola Coombe
Drawn: Lola Coombe
Checked: Otis Blankenship
Date: 05/2016

Sheet Title: **COVER SHEET**
GREEN KNOB TIMBER SALE

Project No: _____
Sheet 1 of 34

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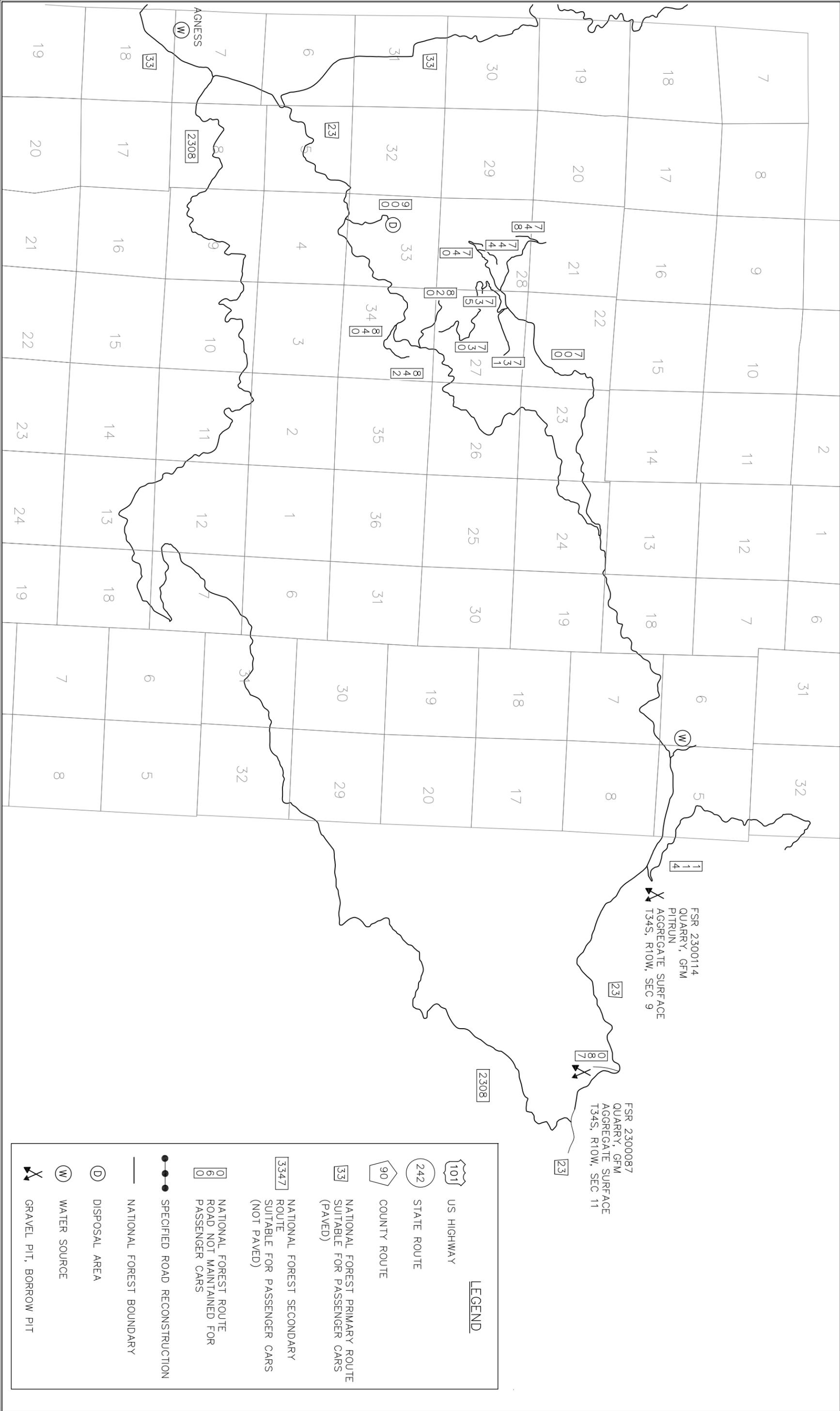
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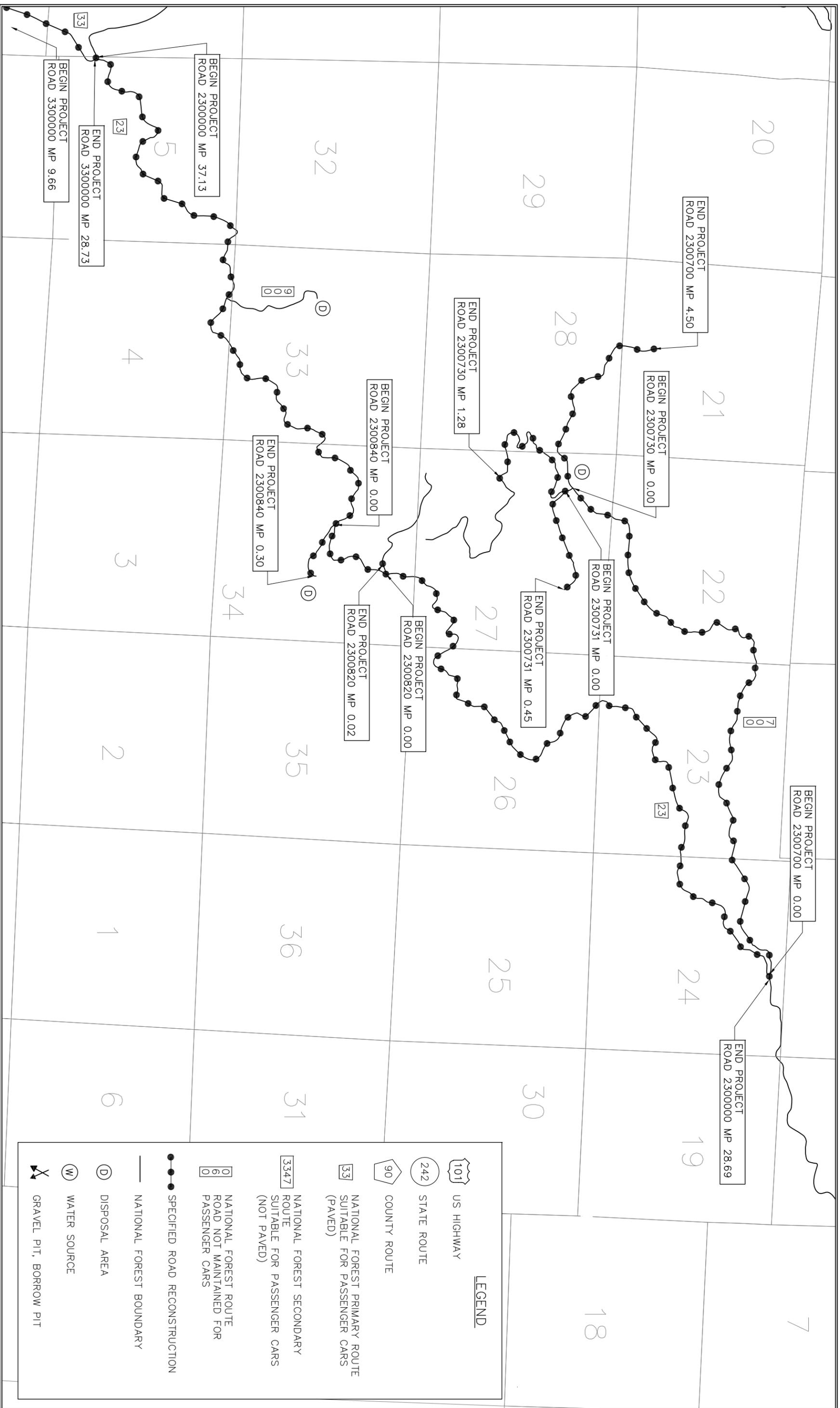
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GREEN KNOB TIMBER SALE

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LEGEND

- US HIGHWAY
- STATE ROUTE
- COUNTY ROUTE
- NATIONAL FOREST PRIMARY ROUTE SUITABLE FOR PASSENGER CARS (PAVED)
- NATIONAL FOREST SECONDARY ROUTE SUITABLE FOR PASSENGER CARS (NOT PAVED)
- NATIONAL FOREST ROUTE ROAD NOT MAINTAINED FOR PASSENGER CARS
- SPECIFIED ROAD RECONSTRUCTION
- NATIONAL FOREST BOUNDARY
- DISPOSAL AREA
- WATER SOURCE
- GRAVEL PIT, BORROW PIT



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Sheet Title: **SITE MAP**
GREEN KNOB TIMBER SALE
 Project No: _____
 Sheet **4** OF **34**

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	PAY UNIT	NOTES
32213	AGGREGATE SURFACE COURSE, TYPE CRUSHED, COMPACTION METHOD B (GOVERNMENT FURNISHED)	* CUBIC YARD	STOCKPILE LOCATED IN QUARRY ON FSR 2300114. WHEN EMPTY, USE STOCKPILE IN QUARRY LOCATED ON FSR 2300087. QUANTITY IS COMPACTED IN PLACE
32222	PIT RUN MAXIMUM SIZE 8", COMPACTION METHOD B (GOVERNMENT FURNISHED)	* CUBIC YARD	STOCKPILE LOCATED IN QUARRY ON FSR 2300114. QUANTITY IS COMPACTED IN PLACE
40401	MINOR HOT ASPHALT CONCRETE	TON	INDIRECT PAYMENT FOR TACK COAT
60201A-E	24-INCH ALUMINIZED CORRUGATED STEEL PIPE, 16 GAGE, COMPACTION METHOD B	FOOT	INDIRECT PAYMENT FOR STAKING, EXCAVATION, BACKFILL, BEDDING, BANDS AND HARDWARE, LENGTHS SHOWN ARE APPROXIMATE, STAKE AND MEASURE FOR APPROVAL PRIOR TO ORDERING, BOTTOM OF CULVERT AT ROADWAY CENTERLINE IS WITHIN THE RANGE OF DEPTH SHOWN
60201F-H	36-INCH ALUMINIZED CORRUGATED STEEL PIPE, 16 GAGE, COMPACTION METHOD B	FOOT	INDIRECT PAYMENT FOR STAKING, EXCAVATION, BACKFILL, BEDDING, BANDS AND HARDWARE, LENGTHS SHOWN ARE APPROXIMATE, STAKE AND MEASURE FOR APPROVAL PRIOR TO ORDERING, BOTTOM OF CULVERT AT ROADWAY CENTERLINE IS WITHIN THE RANGE OF DEPTH SHOWN
60201I	48-INCH ALUMINIZED CORRUGATED STEEL PIPE, 16 GAGE, COMPACTION METHOD B	FOOT	INDIRECT PAYMENT FOR STAKING, EXCAVATION, BACKFILL, BEDDING, BANDS AND HARDWARE, LENGTHS SHOWN ARE APPROXIMATE, STAKE AND MEASURE FOR APPROVAL PRIOR TO ORDERING, BOTTOM OF CULVERT AT ROADWAY CENTERLINE IS WITHIN THE RANGE OF DEPTH SHOWN
60208	END SECTION, 36-INCH ROUND CULVERT, FLARED INLET WITH TOE PLATE	EACH	INDIRECT PAYMENT FOR BAND AND HARDWARE
60603A	PIPE ANCHOR ASSEMBLY, 24-INCH	EACH	INDIRECT PAYMENT FOR HARDWARE AND CABLE
60603C	PIPE ANCHOR ASSEMBLY, 36-INCH	EACH	INDIRECT PAYMENT FOR HARDWARE AND CABLE
60610A	SPILLWAY ASSEMBLY, 24-INCH, 16 GAGE	LUMP SUM	HARDWARE IS INCIDENTAL, LENGTHS VARY FROM 10' TO 24', SEE DRAINAGE LIST OR WORK LIST DESCRIPTIONS FOR LENGTHS. FOR LENGTHS GREATER THAN 20', 10' SPILLWAY ASSEMBLIES WITH OUTLET PIPES MAY BE USED IN PLACE OF FULL LENGTH SPILLWAY ASSEMBLIES
60610B	SPILLWAY ASSEMBLY, 36-INCH, 16 GAGE	LUMP SUM	HARDWARE IS INCIDENTAL, LENGTHS VARY FROM 10' TO 24', SEE DRAINAGE LIST OR WORK LIST DESCRIPTIONS FOR LENGTHS. FOR LENGTHS GREATER THAN 20', 10' SPILLWAY ASSEMBLIES WITH OUTLET PIPES MAY BE USED IN PLACE OF FULL LENGTH SPILLWAY ASSEMBLIES
60711	RECONDITIONING DRAINAGE STRUCTURES, CLEANING, CUTTING, REPAIRING, RECONNECTING SECTIONS	LUMP SUM	SEE WORK LIST FOR SPECIFIC RECONDITIONING REQUIREMENTS OF EACH SITE, HARDWARE, BANDS, METAL SECTIONS FOR PATCHING ARE INCIDENTAL
62530	SEEDING AND MULCHING, DRY METHOD	LUMP SUM	GOVERNMENT PROVIDED SEED, ALLOW 7 DAY DELIVERY AFTER REQUEST IS MADE, CERTIFIED WEED FREE MULCH, COVER ALL DISTURBED AREAS
65002	INSTALL ROAD CLOSURE DEVICE, TYPE CATCH BASIN EARTHEN BARRIER	EACH	ROAD 2300731 ROAD CLOSURE DEVICE CONSISTS OF A CULVERT CATCH BASIN. FOR ACCESS, THE BASIN SHALL BE BACKFILLED (SEE WORK LIST DESCRIPTION). UPON COMPLETION OF WORK, CONSTRUCT EARTHEN BARRIER SIMILAR TO EXISTING BY EXCAVATING CATCH BASIN AND DITCH. INDIRECT PAYMENT FOR STEEL PLATE

* CONTRACT QUANTITIES



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Drawn: Lola Coombe
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Sheet Title:
PAY ITEMS GENERAL NOTES
2 OF 2
GREEN KNOB TIMBER SALE

Project No:
Sheet **7** OF **34**

DRAINAGE LISTING

DESIGNED				AS BUILT				INSTALLATION DETAILS						OUTLET PROTECTION				REMARKS					
ROAD #	MILEPOST/ STATION	CMP		GAGE	DOWN DRAIN		CMP	GAGE	DOWN DRAIN		TYPE	GRADE	ANCHOR ASSEMBLY		DOWN DRAIN CONNECT		TYPE A		TYPE B	REMARKS			
		DIAMETER	LENGTH		DIAMETER	* LENGTH			DIAMETER	LENGTH			EA.	HINGED	ELBOW	** DEPTH OF EXCAVATION	RIPRAP CLASS 2	RIPRAP CLASS 3	RIPRAP CLASS 3		RIPRAP CLASS 6		
		IN.	FT.		IN.	FT.	IN.	FT.	IN.	FT.			FT.	CY	CY	CY							
	2300000	37.04	36	74	16						3	MATCH								11			ADD UNCLASSIFIED BORROW DUE TO EROSION OCCURRING IN FILL SLOPE
	2300000	37.04	24	70	16						3	MATCH								4			
	2300000	36.99	24	44	16						3	MATCH								6			ADDITIONAL RIPRAP TO FILL SCOUR HOLE
	2300000	36.87	24	64	16						3	MATCH								4			
	2300000	36.81	24	60	16						3	8%								6			RAISE INLET 6" AND LOWER OUTLET 6" TO INCREASE GRADE. ADDITIONAL RIPRAP TO FILL SCOUR HOLE
	2300000	36.75	24	62	16						3	MATCH								4			
	2300000	36.68	24	44	16						3	MATCH								4			
	2300000	36.19	24	100	16	24	16				2	8%	2		X					4			CUT, PLUG, AND ABANDON EXISTING CULVERT
	2300000	36.10	24	122	16						4	MATCH								6			ADDITIONAL RIPRAP AT OUTLET TO FILL SCOUR HOLE
	2300000	35.93	24	40	16	24	12				3	8%	2		X					4			RAISE CULVERT 6" AT INLET AND LOWER 12" AT OUTLET TO INCREASE GRADE
	2300000	35.83	24	52	16						3	MATCH								4			
	2300000	35.70	36	64	16						3	MATCH								13			ADDITIONAL RIPRAP AT OUTLET TO FILL SCOUR HOLE
	2300000	35.61	36	48	16	36	10				3	MATCH	2		X					4			
	2300000	35.16	24	38	16						3	MATCH								4			
	2300000	34.55	24	30	16	24	20				3	MATCH	2		X					4			
	2300000	32.85	24	46	16						3	8%								14			LOWER OUTLET 14' BELOW EXISTING CULVERT TO INCREASE GRADE. ADD RIPRAP IN SCOUR HOLE AT OUTLET
	2300000	32.23	24	40	16						3	MATCH								4			

METAL PIPE CORRUGATIONS SHALL BE 2 2/3" X 1/2" UNLESS OTHERWISE APPROVED. ALUMINIZED STEEL SHALL BE USED.

* DOWN DRAIN LENGTH SHOWN ON THIS LISTING CONSIST OF FULL LENGTH SPILLWAY ASSEMBLIES. FOR LENGTHS GREATER THAN 20', A 10' SPILLWAY ASSEMBLY PLUS OUTLET PIPE MAY BE USED. LENGTH OF SPILLWAY ASSEMBLY NOR OUTLET PIPE MAY NOT BE LESS THAN 10'.

** APPROXIMATE RANGE OF DEPTH OF CULVERT FLOWLINE AT ROAD CENTERLINE GIVEN IN FEET. FOR EXAMPLE, 0-5 MEANS CULVERT IS BETWEEN 0 AND 5 FEET BELOW THE ROAD SURFACE AT ROAD CENTERLINE.



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Date: 05/2016

Sheet Title: **DRAINAGE LISTING**

1 OF 2

GREEN KNOB TIMBER SALE

Project No: _____

Sheet **8** OF **34**

DRAINAGE LISTING

DESIGNED				AS BUILT				INSTALLATION DETAILS				OUTLET PROTECTION				REMARKS					
ROAD #	MILEPOST/ STATION	CMP		GAGE	DOWN DRAIN		CMP	GAGE	DOWN DRAIN		TYPE	GRADE	ANCHOR ASSEMBLY		DOWN DRAIN CONNECT	** DEPTH OF EXCAVATION	TYPE A		TYPE B		
		DIAMETER	LENGTH		DIAMETER	* LENGTH			DIAMETER	LENGTH			E.A.	HINGED			ELBOW	FT	CY	CY	CY
2300000	31.58	24	38	16							3	MATCH					4				ALL CULVERTS: CULVERT LENGTHS SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LENGTH AND SKEW ACCORDING TO FSSS 152.03(G). CONTRACTING OFFICER APPROVAL IS REQUIRED PRIOR TO PURCHASING CULVERT MATERIAL.
2300000	31.52	24	46	16							3	8%					4				
2300000	31.48	24	60	16	24	24					2	8%	2	X			4				
2300000	30.14	36	74	16	36	28					2	8%	2	X			11				
2300000	29.86	24	36	16							3	MATCH					4				
2300700	1.35	24	40	16							3	MATCH					4				
2300700	3.32	24	38	16							3	MATCH					4				
2300700	3.36	24	42	16							3	MATCH					4				
2300731	0.30	24	40	16							3	MATCH									

METAL PIPE CORRUGATIONS SHALL BE 2 2/3" X 1/2" UNLESS OTHERWISE APPROVED. ALUMINIZED STEEL SHALL BE USED.

* DOWN DRAIN LENGTH SHOWN ON THIS LISTING CONSIST OF FULL LENGTH SPILLWAY ASSEMBLIES. FOR LENGTHS GREATER THAN 20', A 10' SPILLWAY ASSEMBLY PLUS OUTLET PIPE MAY BE USED. LENGTH OF SPILLWAY ASSEMBLY NOR OUTLET PIPE MAY NOT BE LESS THAN 10'.

** APPROXIMATE RANGE OF DEPTH OF CULVERT FLOWLINE AT ROAD CENTERLINE GIVEN IN FEET. FOR EXAMPLE, 0-5 MEANS CULVERT IS BETWEEN 0 AND 5 FEET BELOW THE ROAD SURFACE AT ROAD CENTERLINE.



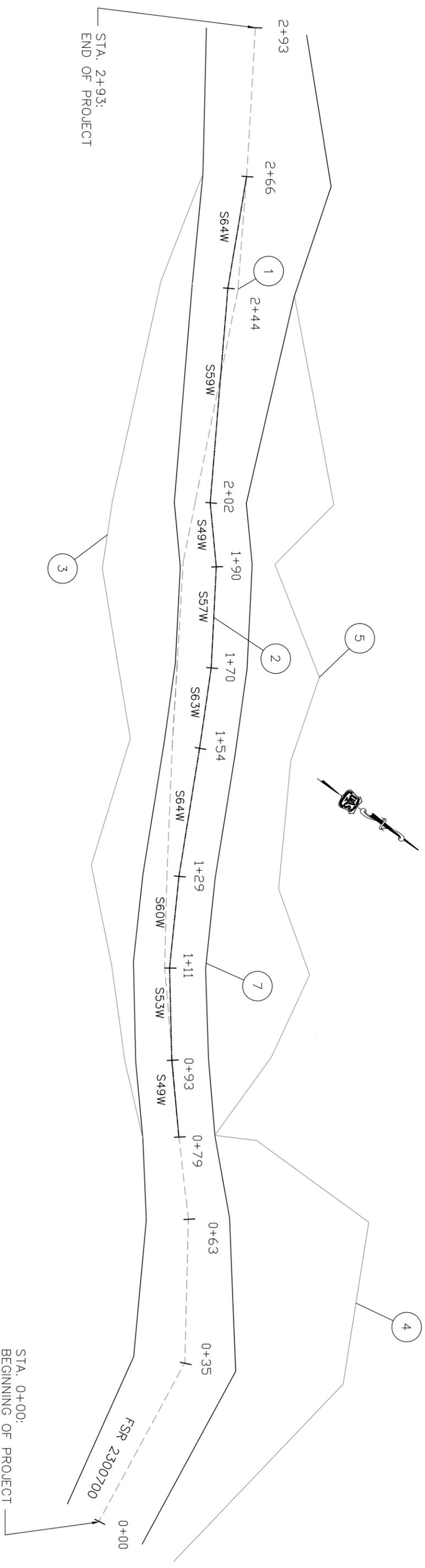
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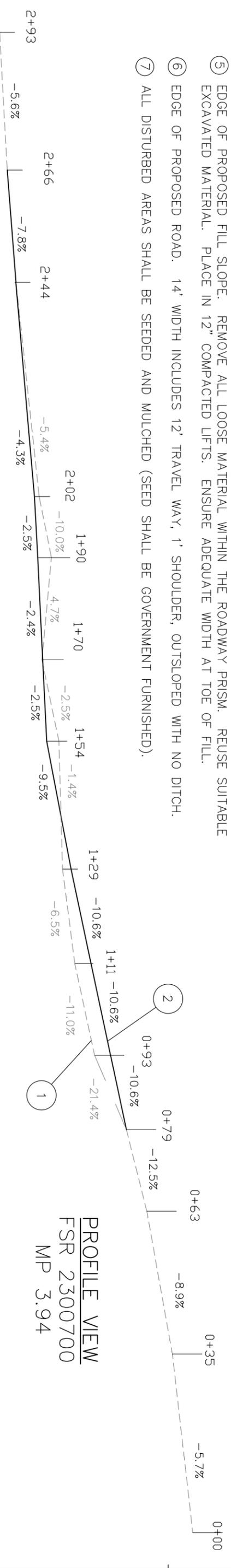
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Sheet Title: **DRAINAGE LISTING**
2 OF 2
 GREEN KNOB TIMBER SALE

Project No: _____
 Sheet **9** OF **34**



PLAN VIEW
FSR 2300700
MP 3.94



PROFILE VIEW
FSR 2300700
MP 3.94

- CONSTRUCTION NOTES:**
- ① EXISTING CENTERLINE OF ROAD AS STAKED ON SITE. USE TO OFFSET FOR PROPOSED CENTERLINE OF ROADWAY.
 - ② PROPOSED CENTERLINE INCLUDES BEARING OF EACH SECTION BETWEEN STATIONS.
 - ③ EDGE OF PROPOSED CUT SLOPE. STOCKPILE ALL SUITABLE EXCAVATED MATERIAL FOR USE AS BACKFILL MATERIAL.
 - ④ SUITABLE EXCAVATED MATERIAL MAY BE TEMPORARILY STOCKPILED IN PULLOUT AREA ON SITE. CLEAR 10' OF WIDTH TO BE USED AS FUTURE PULLOUT UPON COMPLETION OF PROJECT. REMAINDER MAY BE USED AS WASTE AREA FOR UNSUITABLE & EXCESS MATERIAL. SEE SHEET 'ROAD RECONDITIONING/DISPOSAL AREA' FOR DISPOSAL METHOD.
 - ⑤ EDGE OF PROPOSED FILL SLOPE. REMOVE ALL LOOSE MATERIAL WITHIN THE ROADWAY PRISM. REUSE SUITABLE EXCAVATED MATERIAL. PLACE IN 12" COMPACTED LIFTS. ENSURE ADEQUATE WIDTH AT TOE OF FILL.
 - ⑥ EDGE OF PROPOSED ROAD. 14' WIDTH INCLUDES 12' TRAVEL WAY, 1' SHOULDER, OUTSLOPED WITH NO DITCH.
 - ⑦ ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED (SEED SHALL BE GOVERNMENT FURNISHED).

NOT TO SCALE



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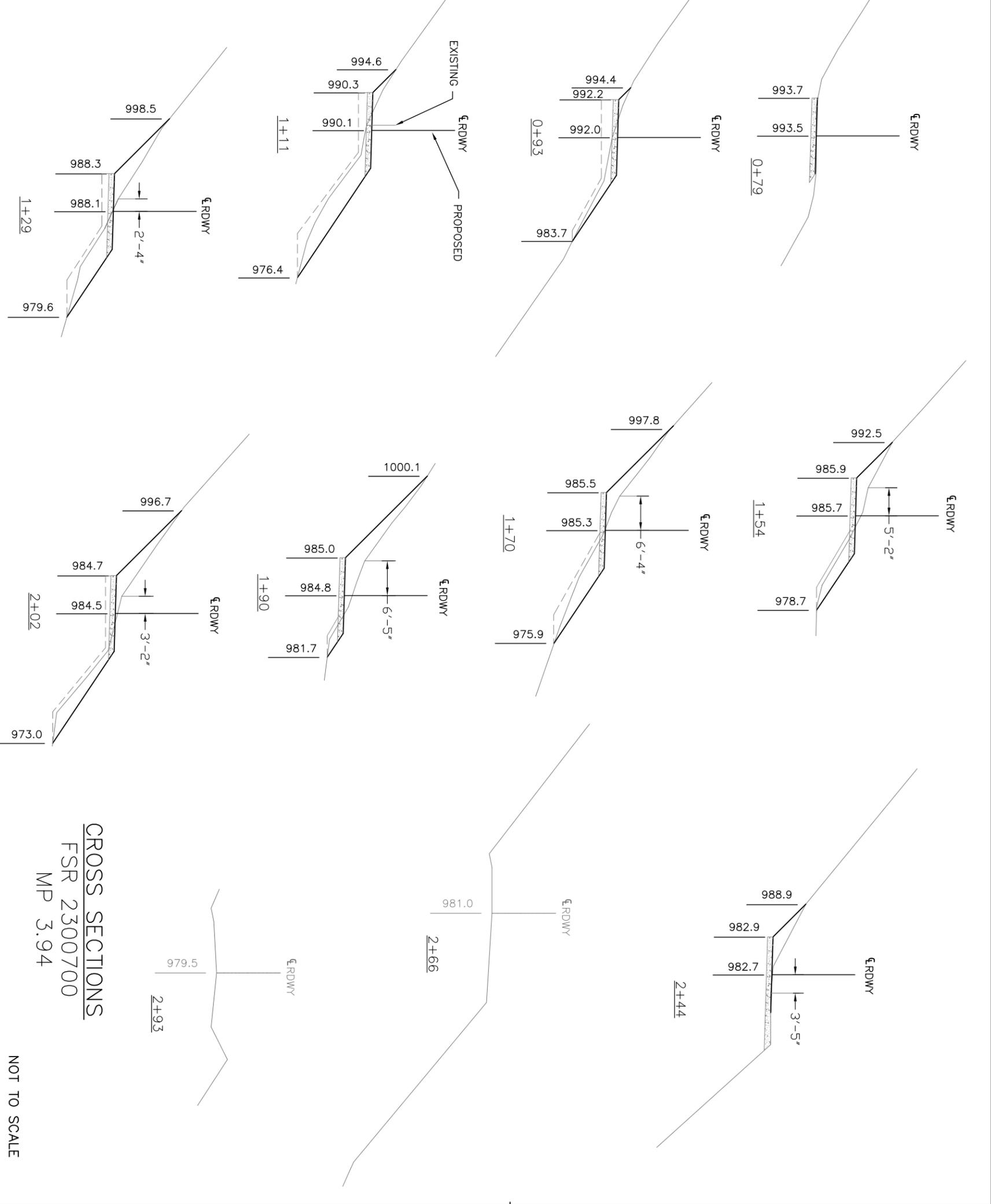
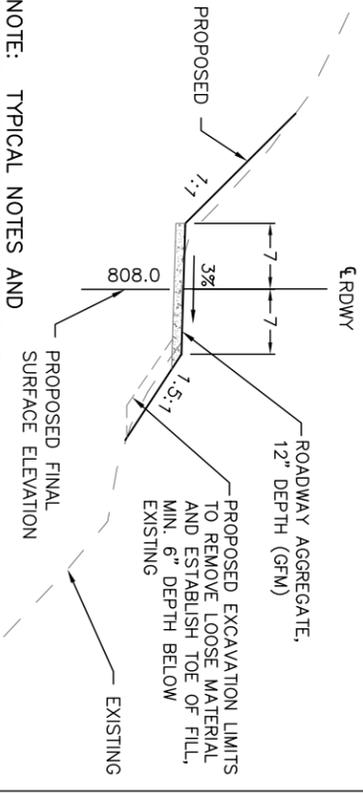
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Sheet Title:
**FSR 2300700 MP 3.94
PLAN & PROFILE**
GREEN KNOB TIMBER SALE

Project No:
Sheet **19** OF **34**

NOTE: TYPICAL NOTES AND SLOPES APPLY TO ALL SECTIONS UNLESS OTHERWISE NOTED



CROSS SECTIONS

FSR 2300700
MP 3.94

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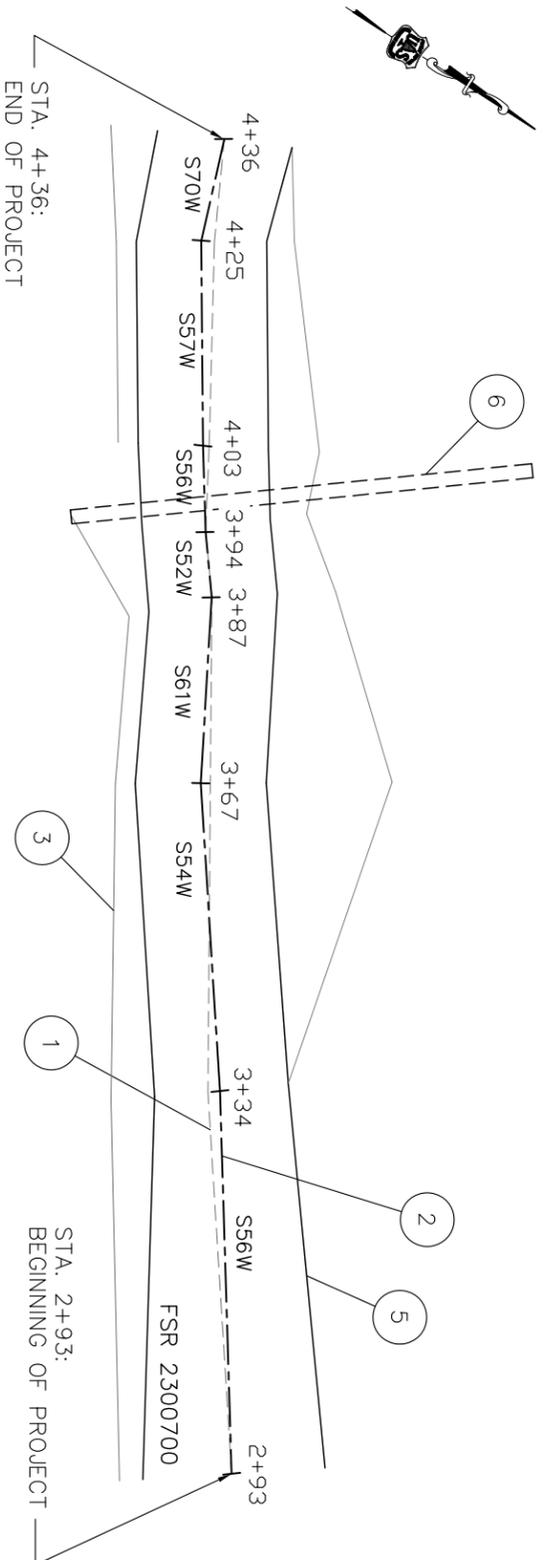
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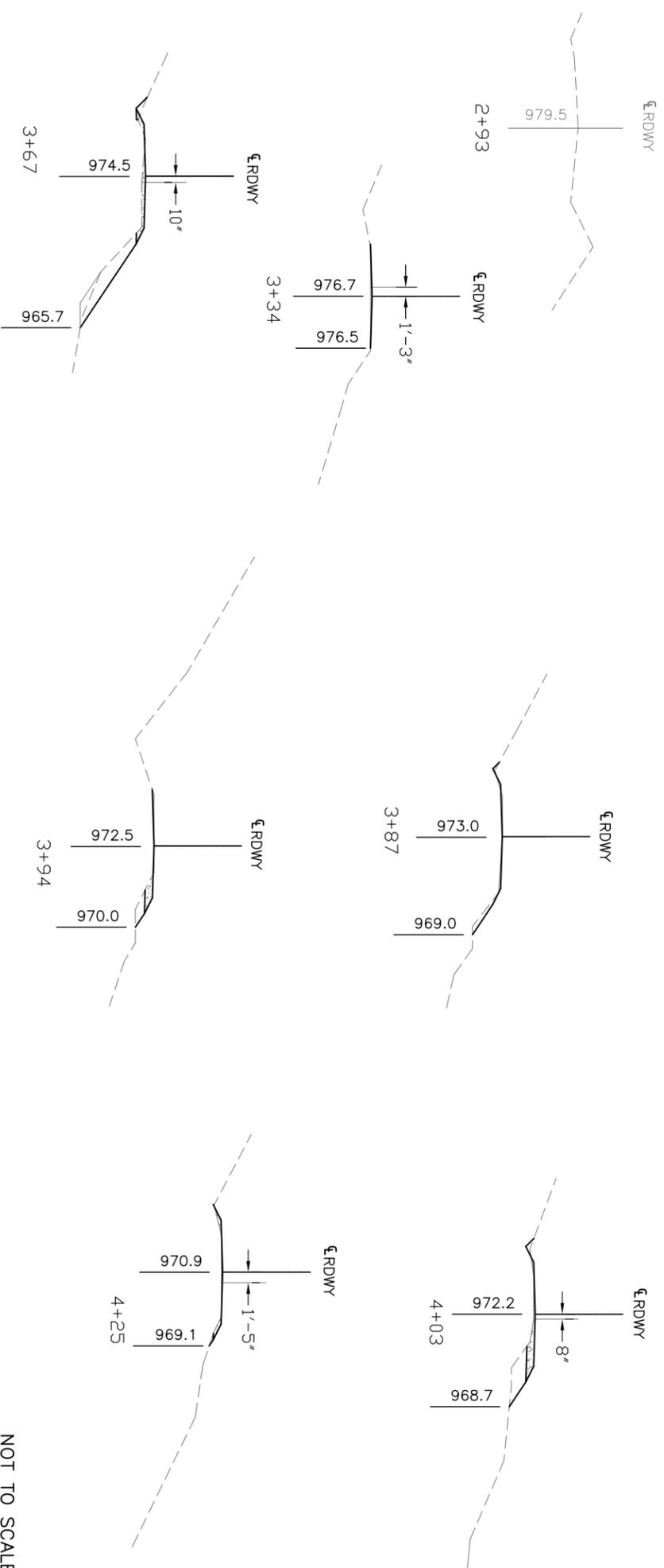
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**FSR 2300700 MP 3.94
CROSS SECTIONS
GREEN KNOB TIMBER SALE**

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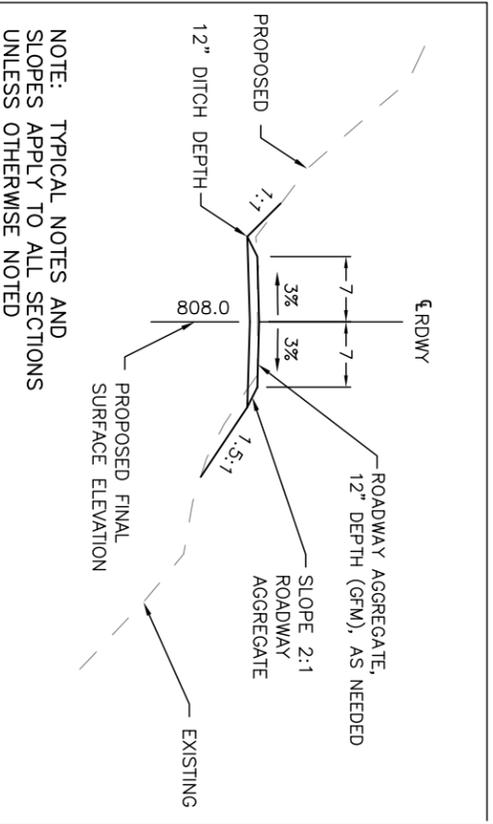


PLAN VIEW
FSR 2300700
MP 4.00

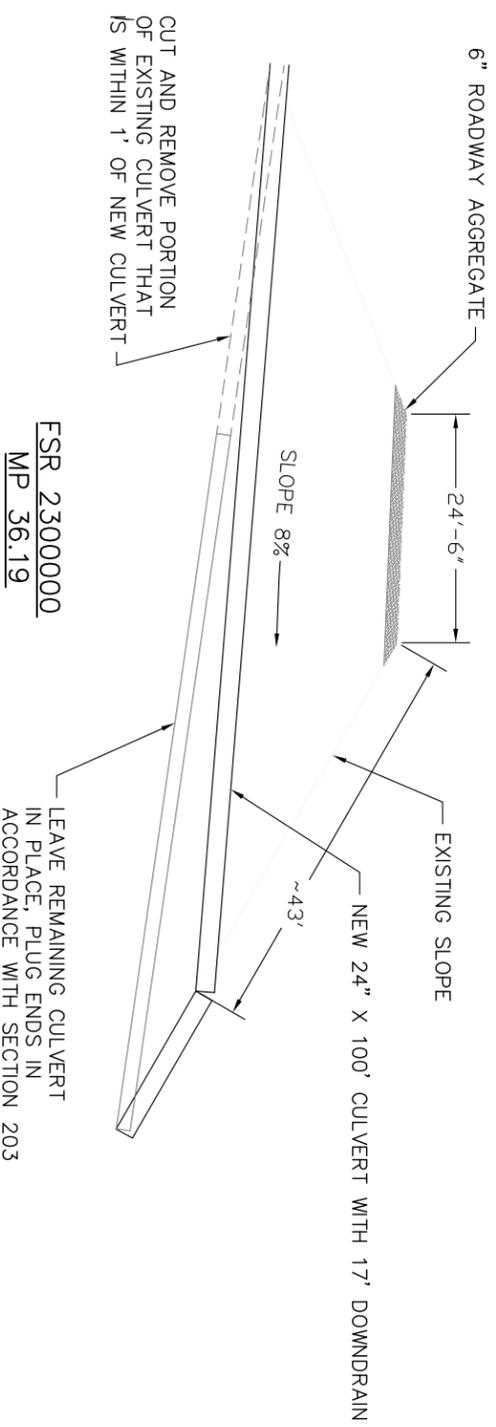
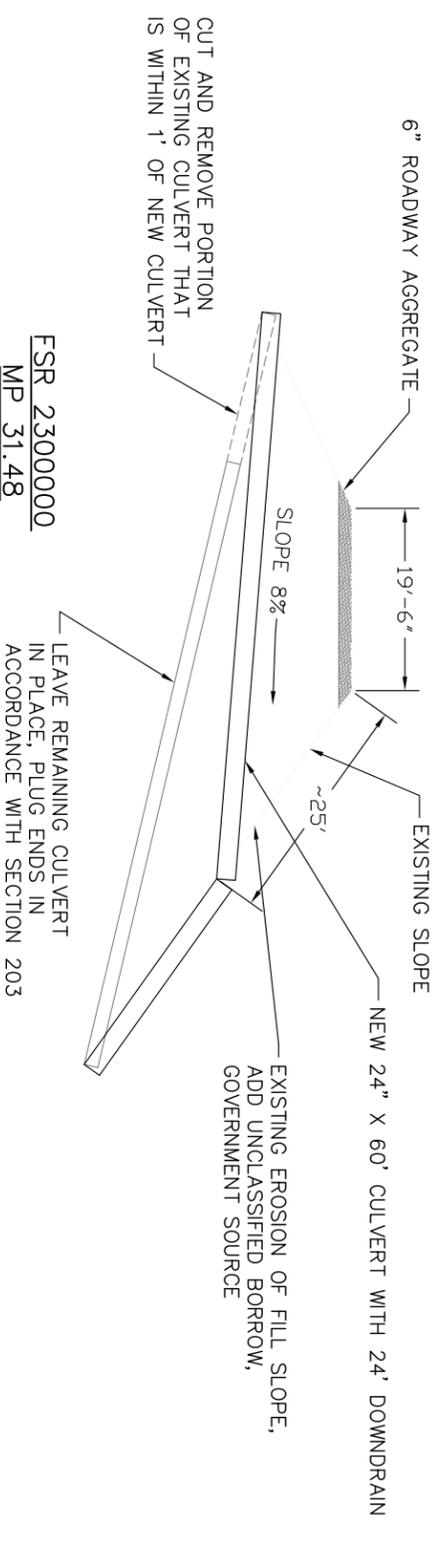
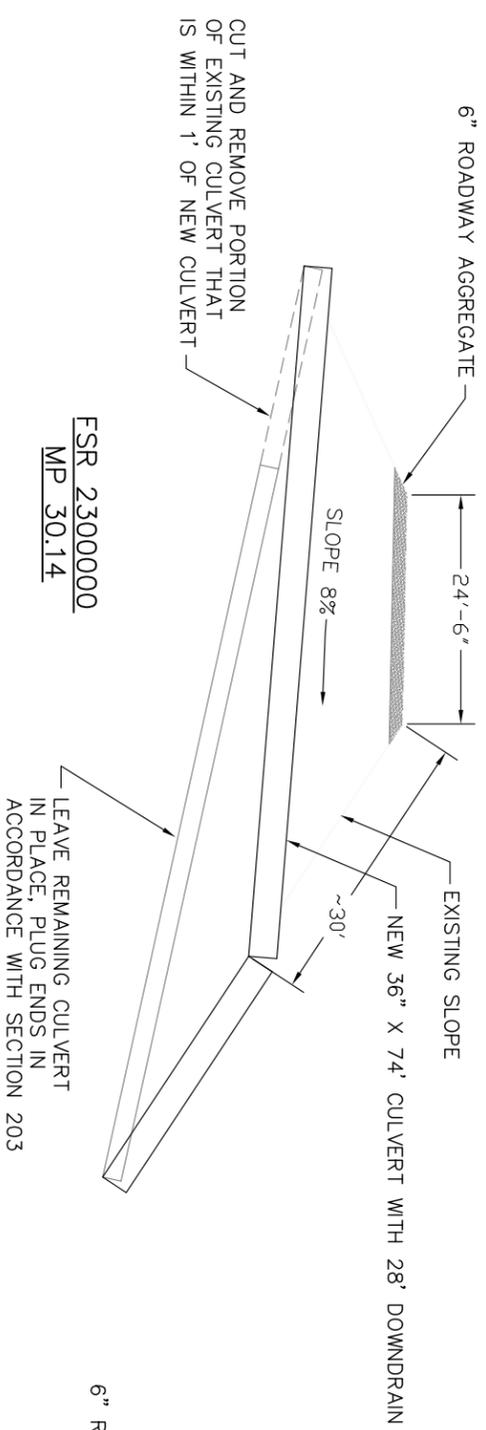
- CONSTRUCTION NOTES:**
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 - ② PROPOSED CENTERLINE INCLUDES BEARING OF EACH SECTION BETWEEN STATIONS.
 - ③ CENTERLINE OF DITCH. SHAPE TO DRAIN AT END OF PROJECT WORK.
 - ④ TOE OF PROPOSED FILL SLOPE. REMOVE ALL LOOSE MATERIAL WITHIN THE ROADWAY PRISM. REUSE SUITABLE EXCAVATED MATERIAL. PLACE IN 12" COMPACTED LIFTS. ENSURE ADEQUATE WIDTH AT TOE OF FILL FOR COMPACTION AND BACKFILL.
 - ⑤ EDGE OF PROPOSED ROAD. 14' WIDTH INCLUDES 12' TRAVEL WAY, 1' SHOULDER, CROWNED WITH DITCH.
 - ⑥ EXISTING 18"x40' CULVERT WITH DOWNDRAIN. CULVERT IS SEPARATED AND SHALL BE EXCAVATED, CLEANED, RECONNECTED, AND REINSTALLED DURING PROJECT SITE WORK. DOWNDRAIN NOT SHOWN.
 - ⑦ HAUL UNSUITABLE & EXCESS MATERIAL TO OLD QUARRY AREA AT MP 3.5. SEE SHEET 'ROAD RECONDITIONING/DISPOSAL AREA' FOR DISPOSAL METHOD.
 - ⑧ ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED (SEED SHALL BE GOVERNMENT FURNISHED).



NOT TO SCALE



NOTE: TYPICAL NOTES AND SLOPES APPLY TO ALL SECTIONS UNLESS OTHERWISE NOTED



NOT TO SCALE

NOTES:

1. INSTALL CULVERTS IN ACCORDANCE WITH SHEET 'CULVERT INSTALLATION & BEDDING'.
2. DOWN DRAINS CONSIST OF SPILLWAY ONLY. OPTION TO USE 10" SPILLWAY WITH OUTLET PIPE FOR SPILLWAYS LONGER THAN 20'. INSTALL IN ACCORDANCE WITH SHEET 'CULVERT DOWNDRAIN WITH ANCHOR ASSEMBLY'.
3. GOVERNMENT SOURCE RIPRAP LOCATED ON FSR 2300000 AT MP ??.
4. MATCH EXISTING ROAD WIDTH AND GRADE AT EDGE OF EXCAVATION.
5. MATCH EXISTING FILL SLOPE AND GRADE ALONG EDGE OF EXCAVATION.
6. SEE FSSS SECTION 107 FOR SEASONAL RESTRICTIONS AND SECTION 156 FOR ALLOWABLE ROAD CLOSURES.
7. HAUL UNSUITABLE AND EXCESS MATERIAL TO APPROVED DISPOSAL SITES.
8. SEED AND MULCH ALL DISTURBED AREAS.



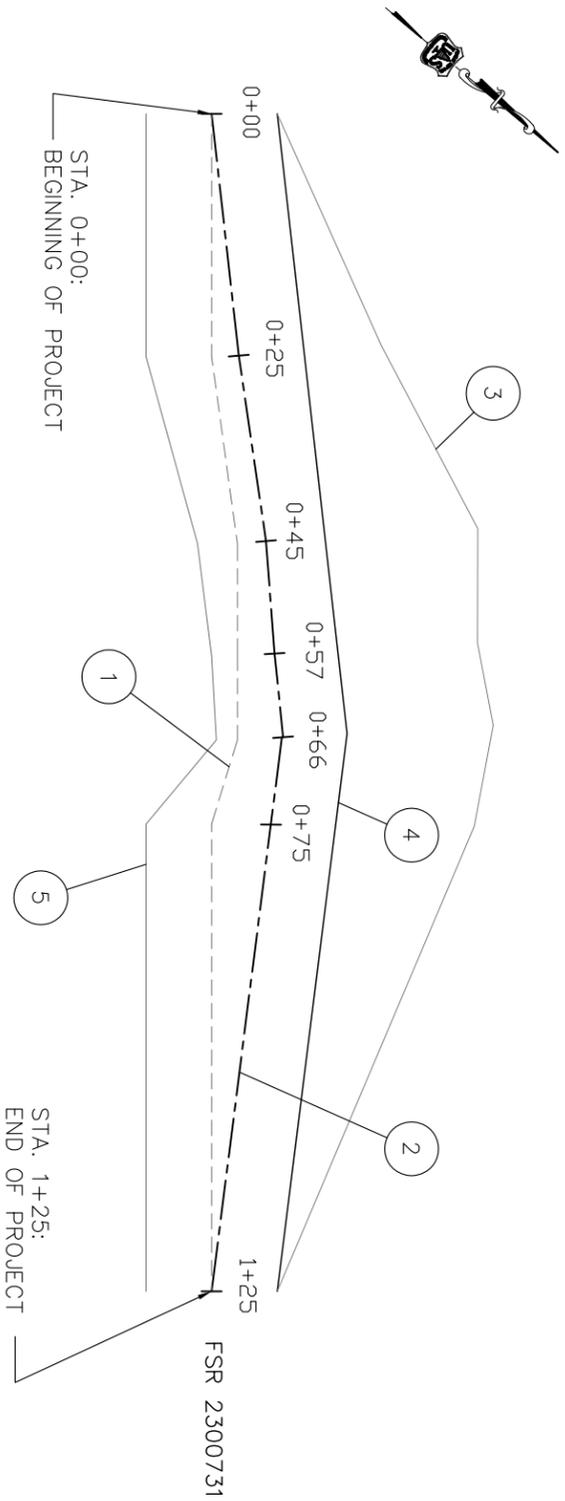
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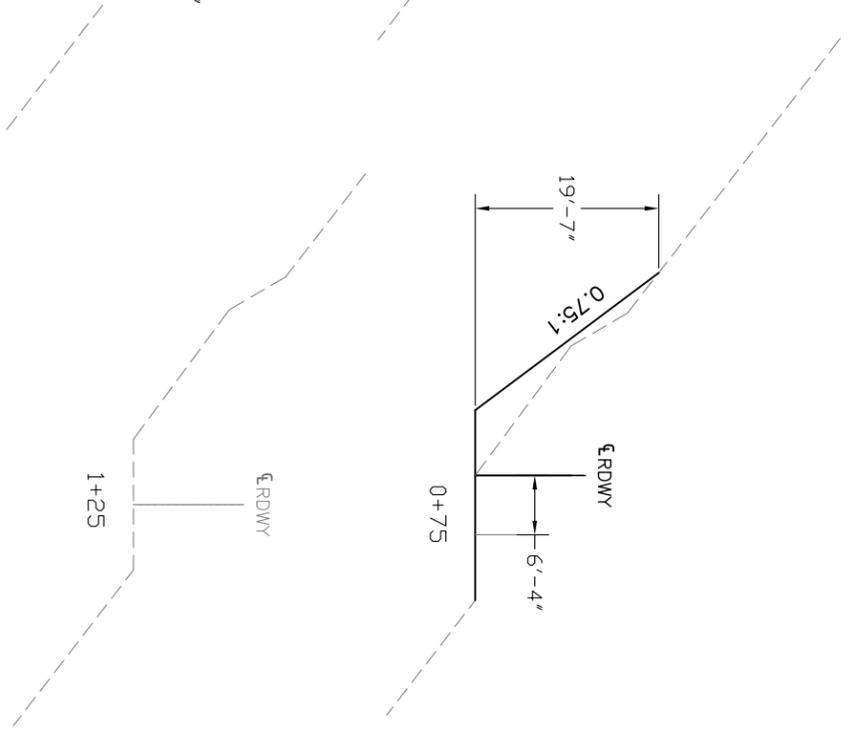
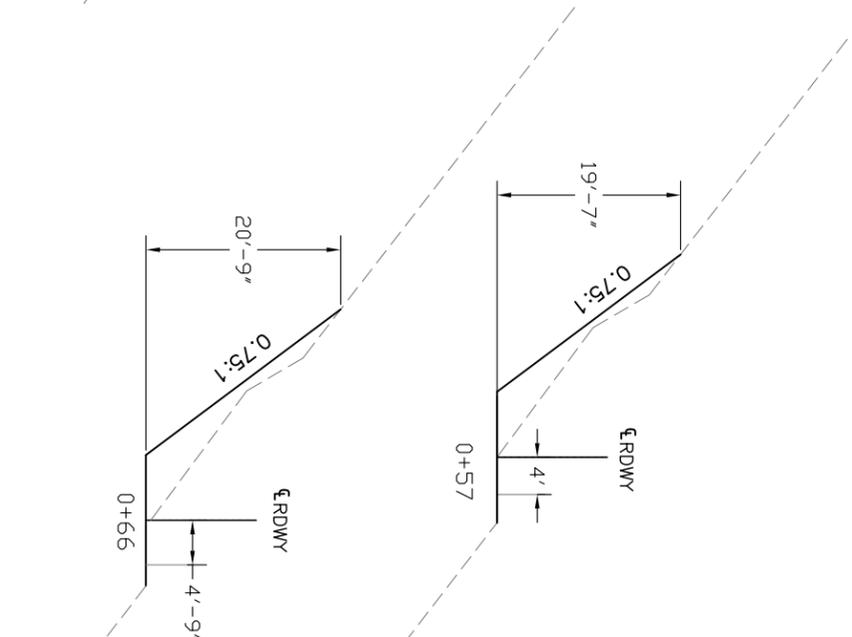
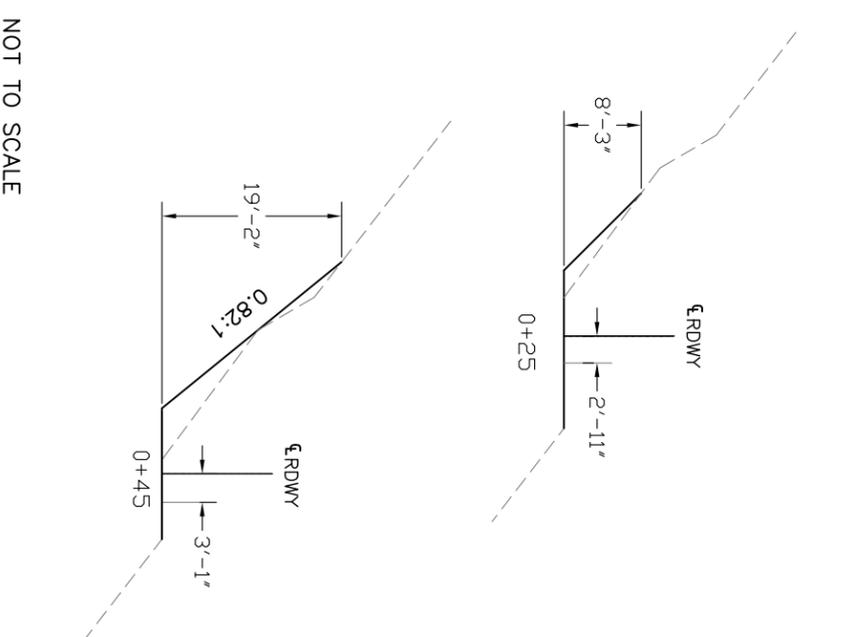
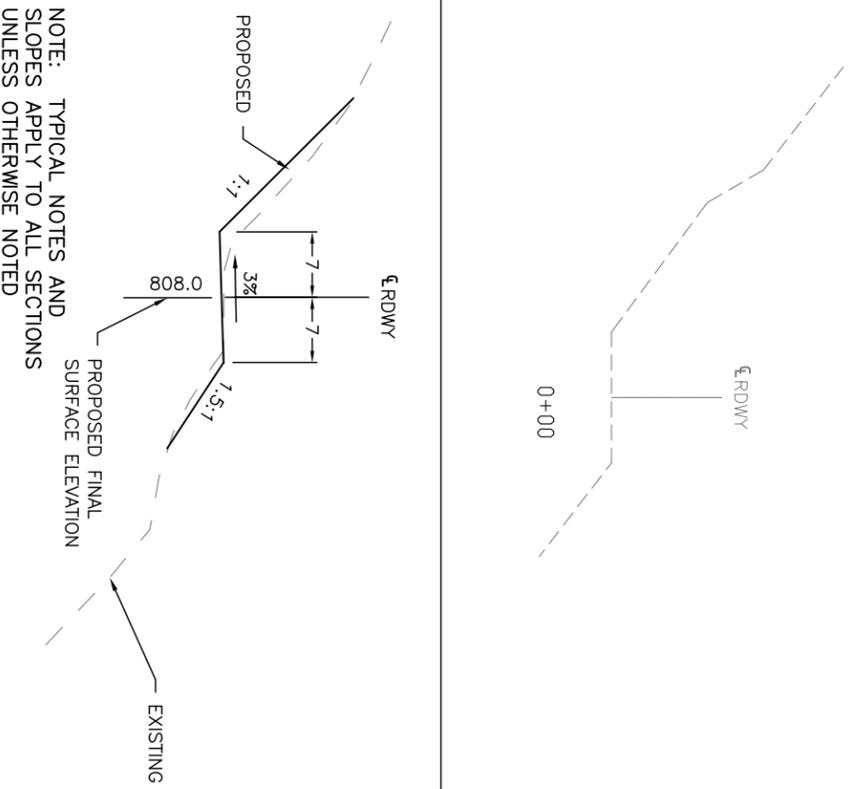
Sheet Title:
2300000 DEEP CULVERTS
GREEN KNOB TIMBER SALE

Project No:
Sheet **22** OF **34**



PLAN VIEW
FSR 2300731
MP 0.27

- CONSTRUCTION NOTES:**
- ① EXISTING CENTERLINE OF ROAD AS STAKED ON SITE. USE TO OFFSET FOR PROPOSED CENTERLINE OF ROADWAY.
 - ② PROPOSED CENTERLINE INCLUDES BEARING OF EACH SECTION BETWEEN STATIONS.
 - ③ TOP OF PROPOSED CUT SLOPE. HAUL UNSUITABLE & EXCESS MATERIAL TO OLD QUARRY AREA AT MP 3.5 ON FSR 2300700. STOCKPILE SUITABLE EXCESS MATERIAL AS UNCLASSIFIED BORROW FOR OTHER PROJECT SITES. SEE SHEET 'ROAD RECONDITIONING' FOR DISPOSAL METHOD OF UNSUITABLE MATERIAL.
 - ④ EDGE OF PROPOSED ROAD. 14' WIDTH INCLUDES 12' TRAVEL WAY, 1' SHOULDER, INSLOPE, GRADE TO DITCH.
 - ⑤ EDGE OF EXISTING ROAD.
 - ⑥ ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED (SEED SHALL BE GOVERNMENT FURNISHED).



NOT TO SCALE

NOTE: TYPICAL NOTES AND SLOPES APPLY TO ALL SECTIONS UNLESS OTHERWISE NOTED



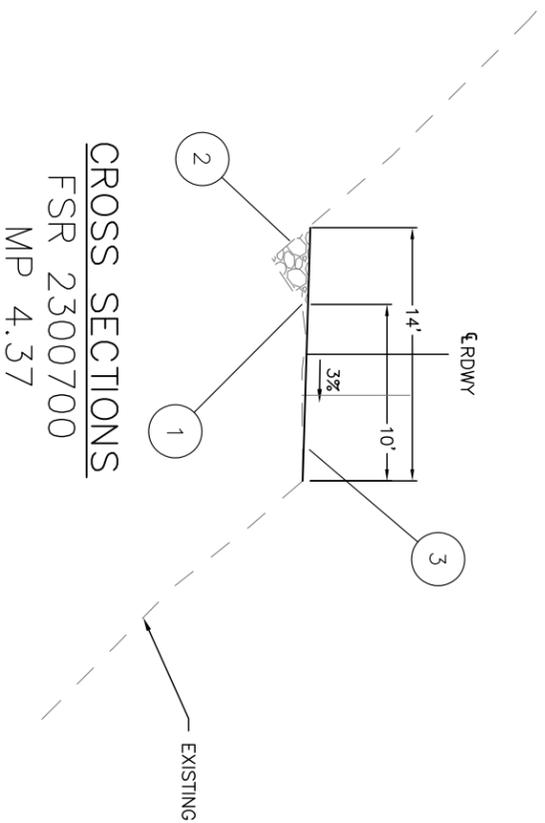
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R6
PACIFIC NORTHWEST REGION

Forest: **ROGUE RIVER-SISKIYOU**
NATIONAL FOREST
District: **GOLD BEACH RANGER DISTRICT**

Design: Lola Coombe
Drawn: Lola Coombe
Checked: Otis Blankenship
Date: 05/2016

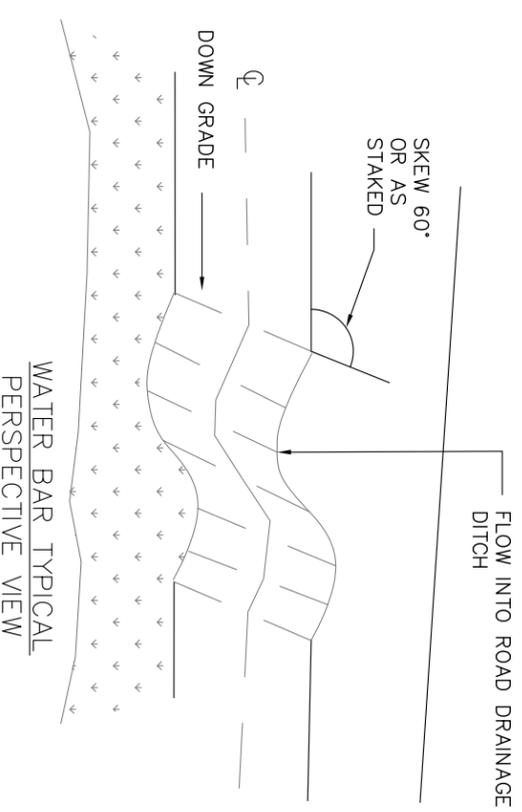
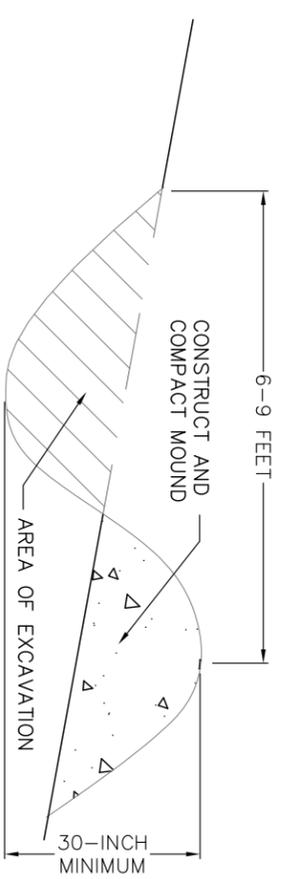
Sheet Title:
FSR 2300731 MP 0.27
PLAN & CROSS SECTIONS
GREEN KNOB TIMBER SALE

Project No:
Sheet **23** OF **34**



CONSTRUCTION NOTES:

- ① SHAPE EXISTING ROADWAY SURFACE TO OUTSLOPE AND GRADE DITCH TO DRAIN TO CULVERT.
- ② FILL FAILURES HAVE NARROWED ROADWAY WIDTH TO 10'. INCREASE WIDTH BY PLACING PITRUN MATERIAL IN DITCH.
- ③ SURFACE OF PROPOSED ROAD. 14' WIDTH INCLUDES 12' TRAVEL WAY, 1' SHOULDER, OUTSLOPE.
- ④ HAUL UNSUITABLE & EXCESS MATERIAL TO DISPOSAL AREA AT MP 4.5. SEE SHEET 'ROAD RECONDITIONING/DISPOSAL AREA' FOR DISPOSAL METHOD.
- ⑤ ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED (SEED SHALL BE GOVERNMENT FURNISHED).



NOTES:

1. CONSTRUCT WATER BARS AT LOCATIONS SHOWN ON DRAWINGS, ON WORK LIST, OR AS STAKED.
2. OUTLET DEPTH OF WATER BAR SHALL BE A MINIMUM OF 12-INCHES BELOW ROAD SURFACE, OR AT DEPTH OF DRAINAGE DITCH, WHICHEVER IS LOWER.
3. WATER BAR GRADIENT SHALL BE EQUAL TO THE ROAD GRADE IN PERCENT SLOPE PLUS (+) 5 PERCENT.
4. WATERBARS SHALL DRAIN ROAD SURFACE WATER INTO DRAINAGE DITCHES PRIOR TO CULVERT CROSS DRAINS.

DRAWINGS
NOT TO SCALE



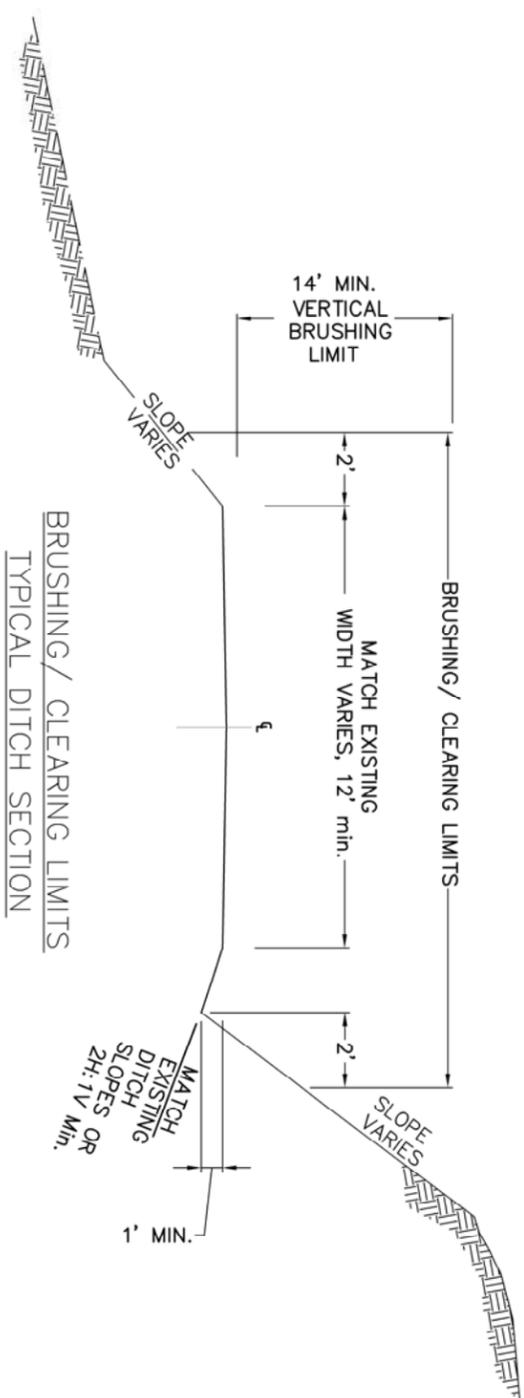
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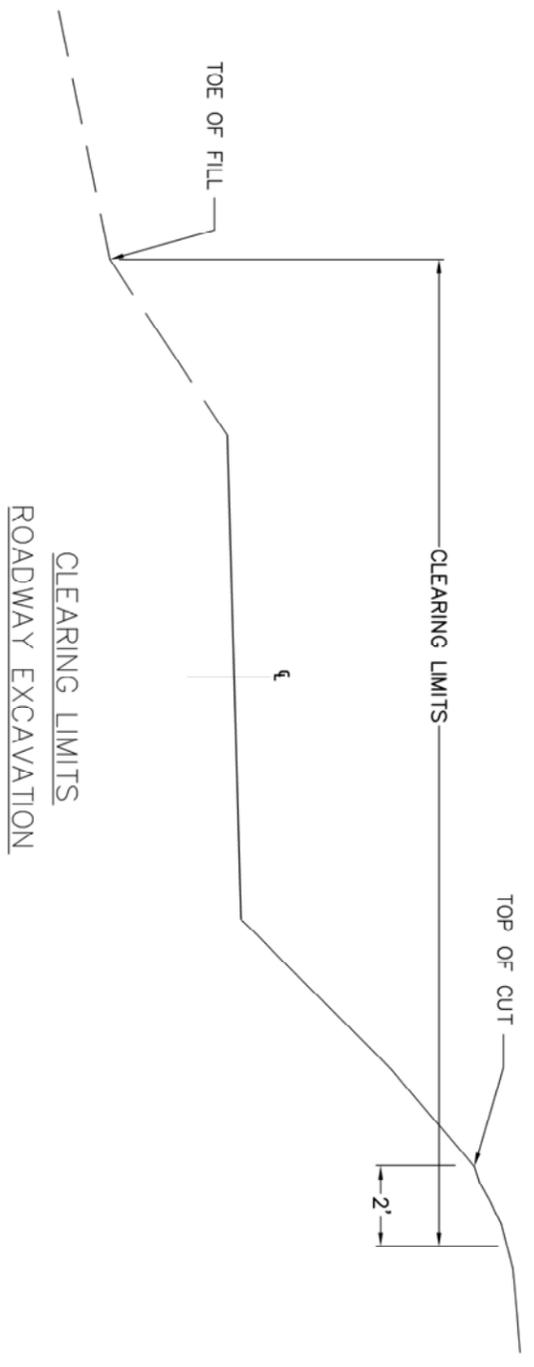
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Date: 05/2016

Sheet Title:
FSR 2300700 DITCH WATERBAR TYPICAL
GREEN KNOB TIMBER SALE

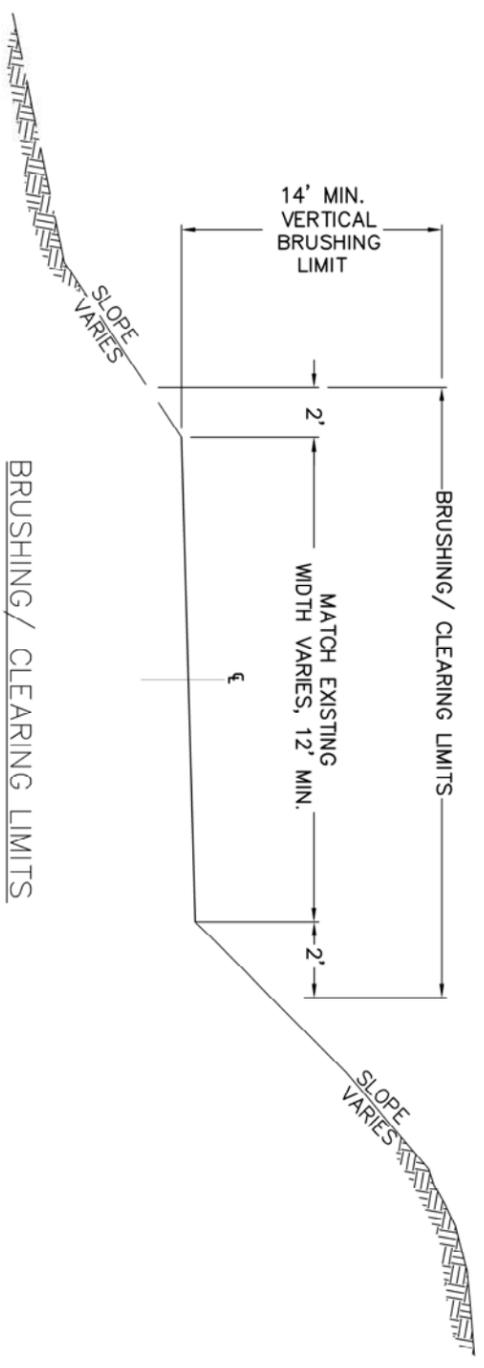
Project No:
Sheet **24** OF **34**



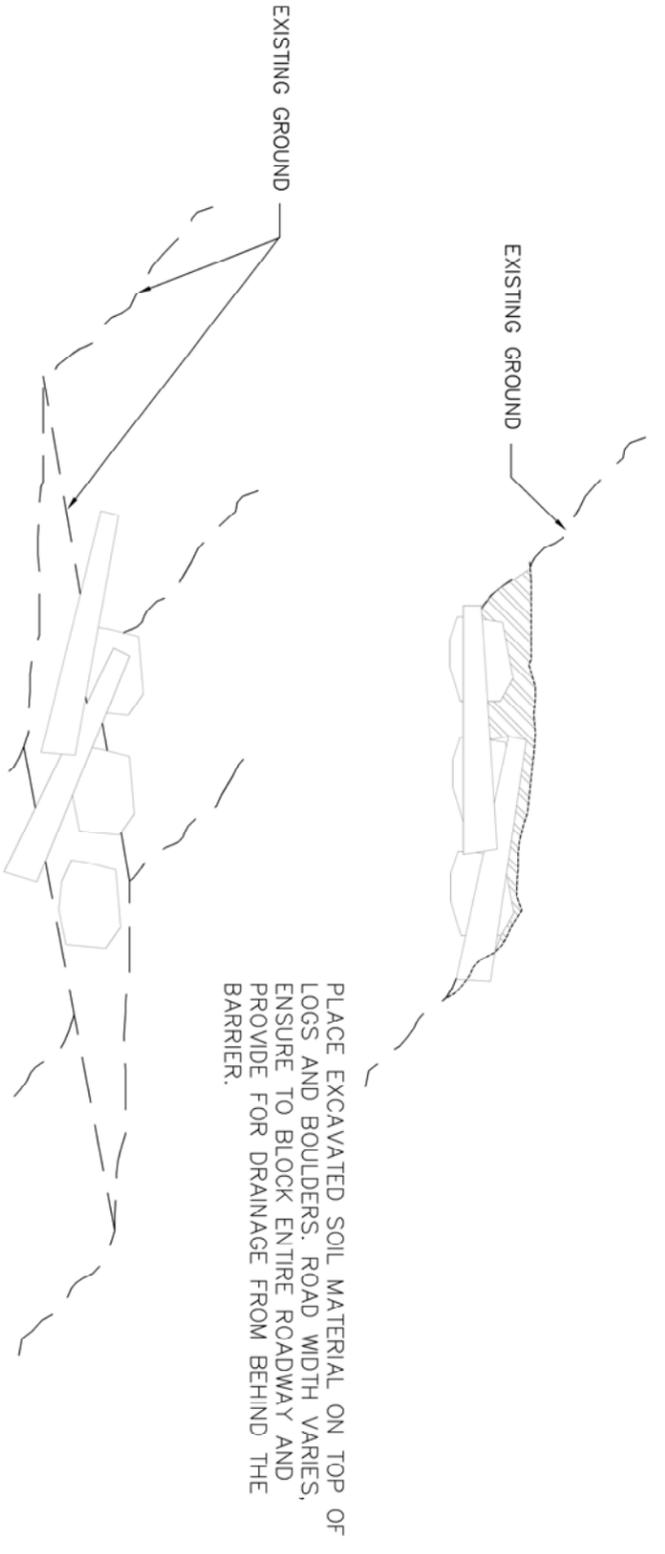
BRUSHING / CLEARING LIMITS
TYPICAL DITCH SECTION



CLEARING LIMITS
ROADWAY EXCAVATION



BRUSHING / CLEARING LIMITS
TYPICAL NO DITCH SECTION



DRAWINGS
NOT TO SCALE

- NOTES:**
1. ALL MERCHANTABILITY TREES TO BE ADDED TO THE SALE. (FSR 2300731)
 2. GRUB AND BACKFILL STUMPS IN ROADBED AREA. BACKFILL IF GRUBBED FROM CUT OR FILL SLOPES.
 3. CLEARING AND BRUSHING SHALL BE IN ACCORDANCE WITH FP-03/FSSS 201 AND 230. DISPOSAL METHODS SHALL BE IN ACCORDANCE WITH FP-03/FSSS 203.
 4. CONSTRUCT /OR REMOVE AND RE-INSTALL EXISTING EARTH MOUND BARRIER AS DESIGNATED OR AS SHOWN ON PLANS. CONSTRUCT EARTH MOUND BARRIER FROM EXISTING BOULDERS, LOGS AND EXCAVATED MATERIAL ADJACENT TO EXISTING BARRIER LOCATION. USE ADEQUATE AMOUNT OF LOGS AND BOULDERS. PLACE EXCAVATED SOIL MATERIAL ON TOP OF BOULDERS AND LOGS. MINIMUM 5 FEET HIGH. ENSURE TO COMPLETELY BLOCK ENTRANCE FROM CUTBANK TO OUTER EDGE OF EXISTING ROADWAY.



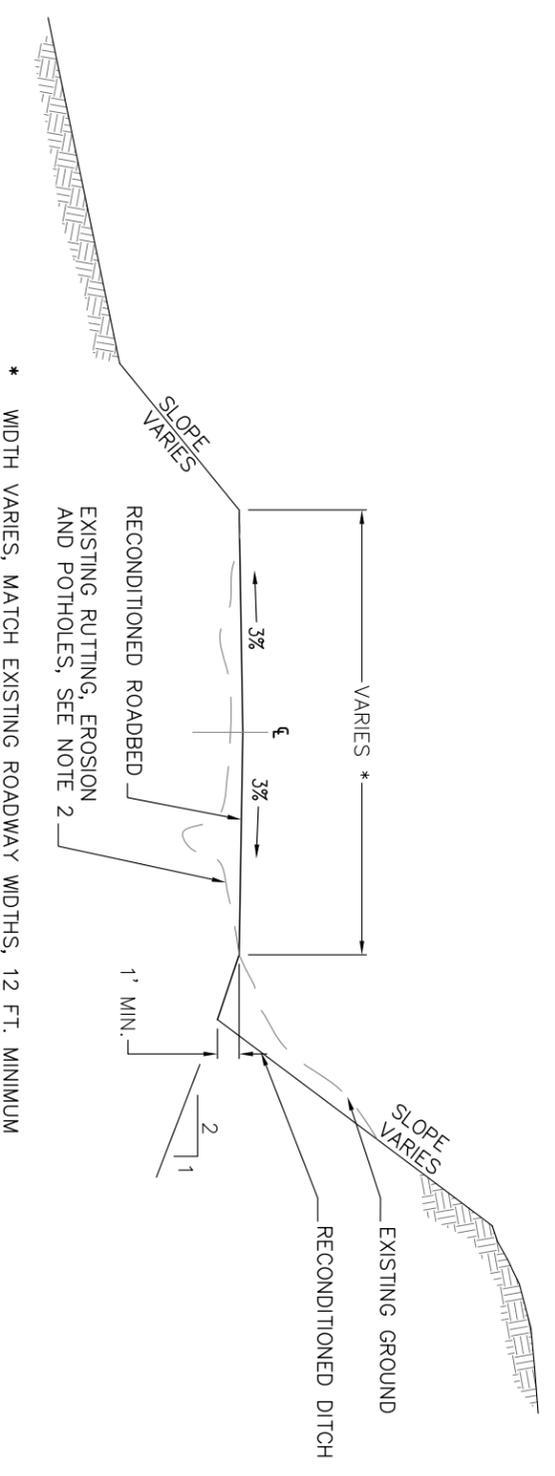
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NATIONAL FOREST**
District: **GOLD BEACH RANGER DISTRICT**

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Checked: Otis Blankenship
Date: 05/2016

Sheet Title:
**CLEARING AND GRUBBING
TYPICALS**
GREEN KNOB TIMBER SALE

Project No:
Sheet **25** OF **34**

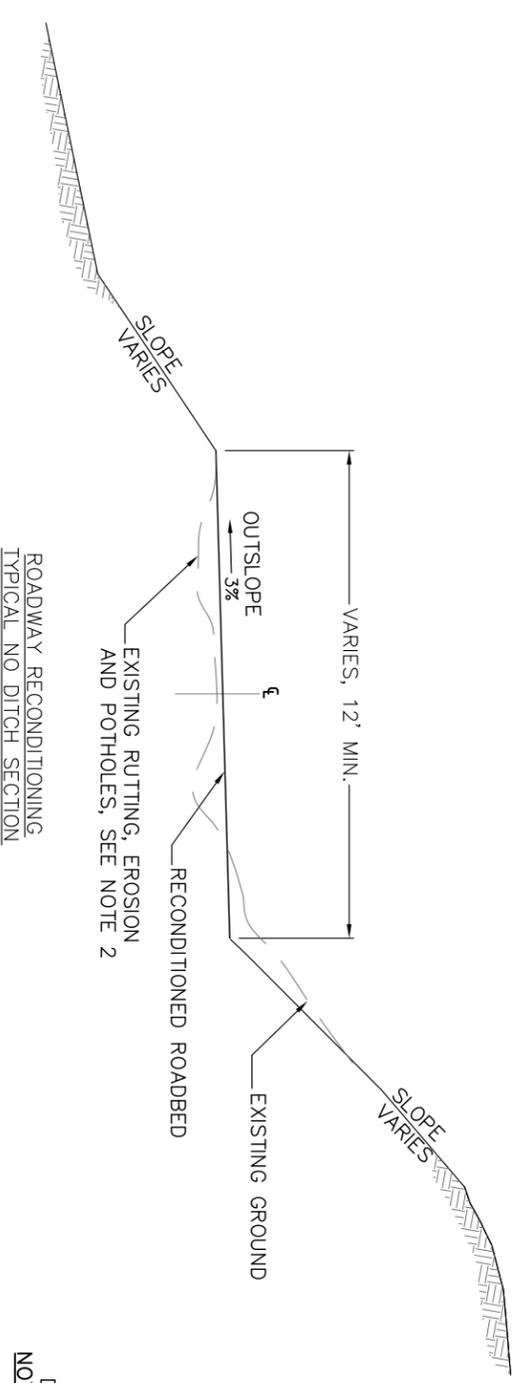


* WIDTH VARIES, MATCH EXISTING ROADWAY WIDTHS, 12 FT. MINIMUM

ROADWAY RECONDITIONING
TYPICAL DITCH SECTION

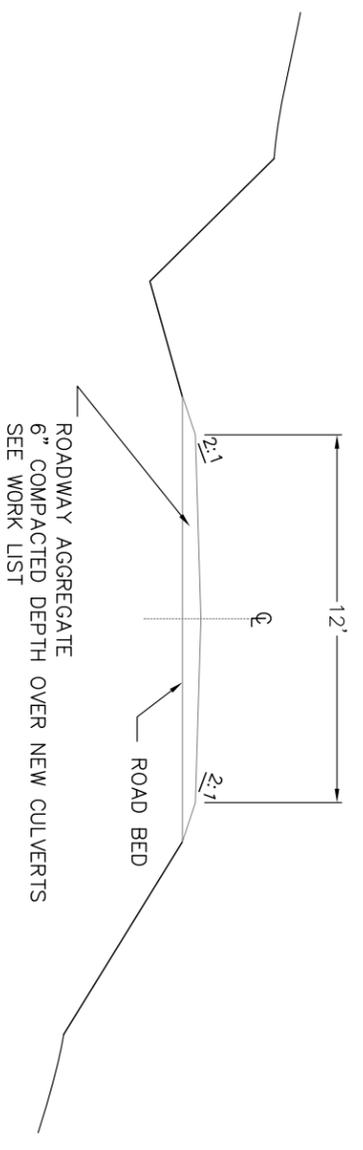
NOTES:

1. RECONDITION ROADS AS SHOWN AND IN ACCORDANCE WITH FP-03 SECTION 303. REQUIRED RECONDITIONING INCLUDES WIDENING FOR CURVES AND TURNOUTS.
2. WHERE RUTTING, EROSION AND POTHOLES EXIST, SCARIFY TO DEPTH OF RUT/EROSION/POTHOLE, BLADE, SHAPE AND COMPACT EXISTING AGGREGATE SURFACE MATERIAL.
3. PLACE AGGREGATE SURFACE OR ROADWAY EXCAVATION MATERIAL AS SHOWN ON WORK LISTS.
4. REMOVE AND DISPOSE OF SLIDE, DITCH, AND CATCH BASIN MATERIAL.
5. SEED AND MULCH ALL WASTE/DISPOSED MATERIAL.

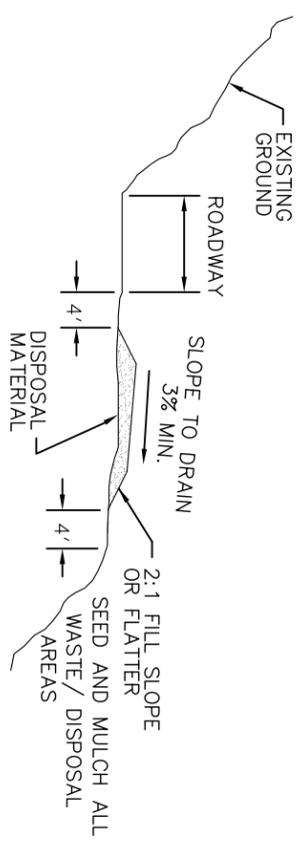


ROADWAY RECONDITIONING
TYPICAL NO DITCH SECTION

DRAWINGS
NOT TO SCALE



AGGREGATE PLACEMENT TYPICAL



DISPOSAL AREA TYPICAL

ROAD #	DISPOSAL SITES	MILEPOSTS
2300000		
2300700	0.88, 2.02, 2.35, 3.49, 3.95	
2300730	0.15, 1.28	
2300840	0.3	
2300900	0.2	



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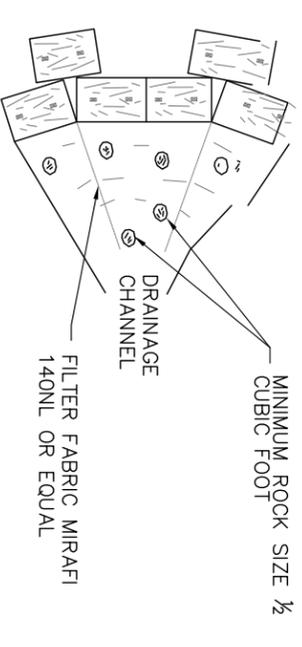
Design: Lola Coombe
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Date: 10/2015

Sheet Title: **ROAD RECONDITIONING**
GREEN KNOB TIMBER SALE

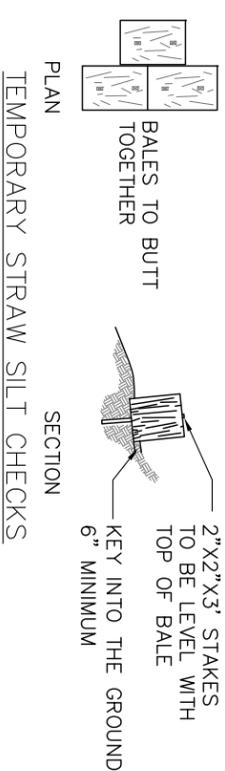
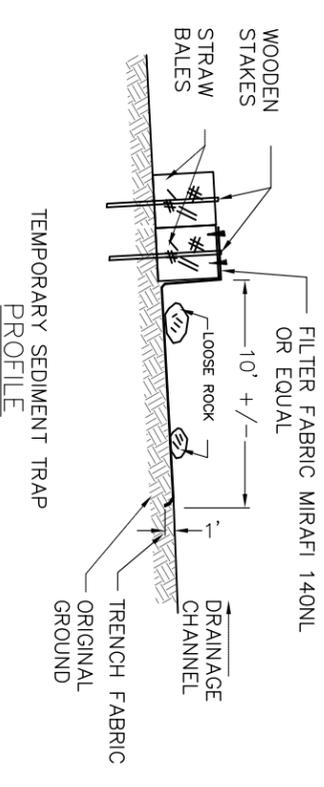
Project No: _____
Sheet **26** OF **34**

EROSION AND SEDIMENT CONTROL:

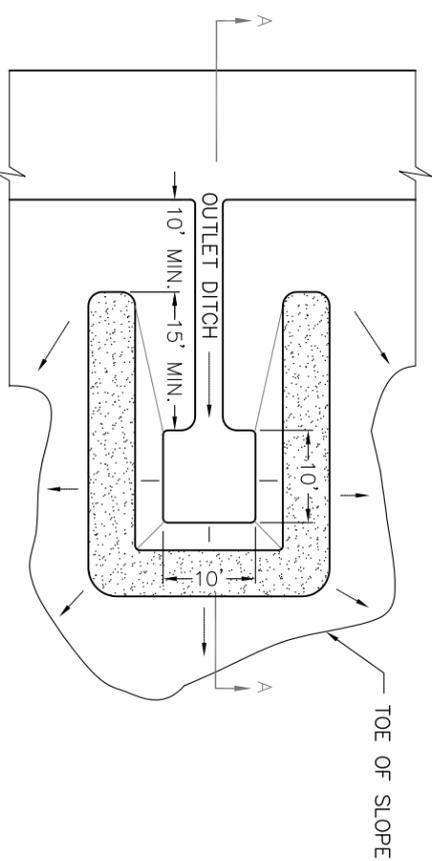
1. PRIOR TO THE START OF CONSTRUCTION, SUBMIT A WRITTEN PLAN THAT PROVIDES PERMANENT AND TEMPORARY EROSION CONTROL MEASURES TO MINIMIZE EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION.
2. PURCHASER SHALL PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED TO CONTROL SOIL EROSION DURING ROAD RECONSTRUCTION.
3. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO BEGINNING EARTH DISTURBING ACTIVITIES IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY CONTRACTING OFFICER.
4. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER WORK HAS CEASED.
5. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (1/2) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED.
6. SEDIMENT SHALL BE REMOVED FROM BEHIND TEMPORARY SILT FENCING WHEN THE DEPTH OF SEDIMENT REACHES 6 INCHES.
7. ALL DISTURBED AREAS WHERE EARTH IS EXPOSED SHALL BE CLEANED, GRADED SMOOTH, SHAPED TO DRAIN, SEEDED AND MULCHED. SEED WILL BE GOVERNMENT FURNISHED. MULCH SHALL BE CERTIFIED WEED FREE.
8. ALL TEMPORARY SEDIMENT CONTROL MEASURES AND PRACTICES SHALL BE REMOVED WITHIN TWO (2) MONTHS AFTER THE FOREST SERVICE HAS ACCEPTED THE PROJECT.



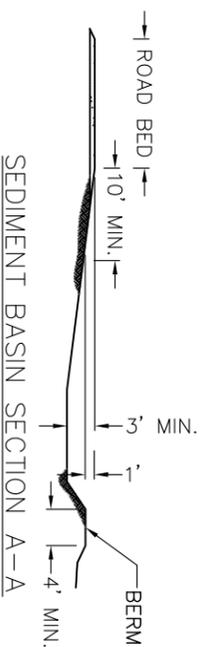
TEMPORARY STRAW SEDIMENT TRAP
PLAN VIEW



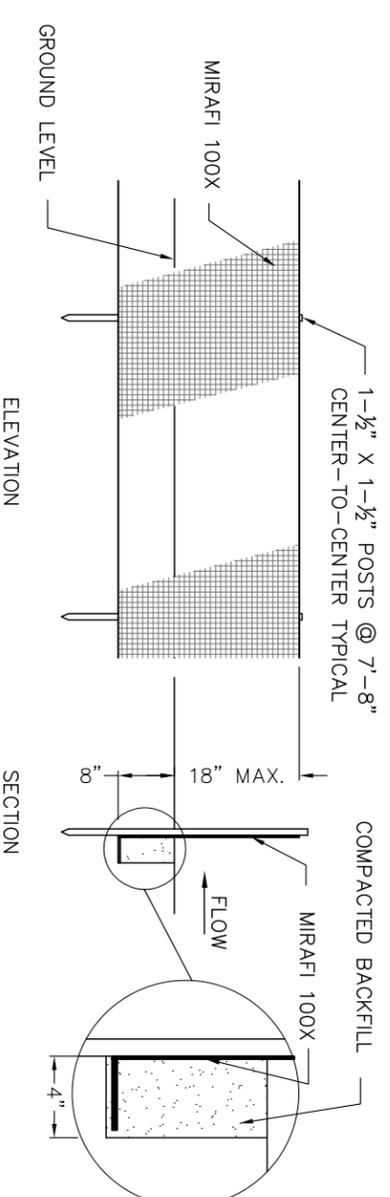
TEMPORARY STRAW SILT CHECKS



SEDIMENT BASIN PLAN VIEW



SEDIMENT BASIN SECTION A-A



SILT FENCE DETAILS

DRAWINGS
NOT TO SCALE



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Checked: Otis Blankenship
Date: 05/2016

Sheet Title:
SEDIMENT CONTROL
GREEN KNOB TIMBER SALE

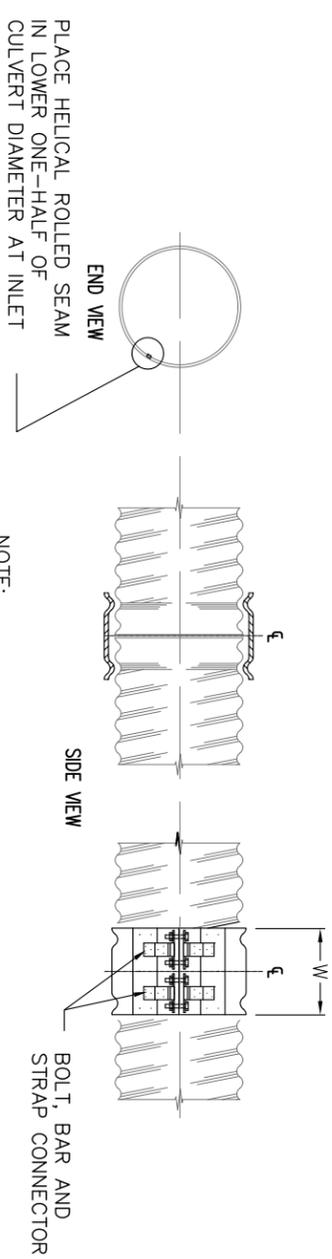
Project No:
Sheet **27** OF **34**

CORRUGATION SIZE	PIPE DIAMETER	PIPE-ARCH SPAN X RISE	MINIMUM BAND WIDTH - W		
			ANNULAR CORRUGATED BANDS	HELICALLY CORRUGATED BANDS	SEMI-CORRUGATED BANDS
			INCHES		
1-1/2 by 1/4	under drain	-	12	12	12
	12 to 36	17x13 to 42x29	12	12	12
2-2/3 by 1/2	42 to 72	49x33 to 83x57	12	12	12
	78 to 84	-	12	12	12
3 by 1	36 to 72	42x29 to 81x59	12	14	12
	78 to 144	87x63 to 142x91	12	14	12
5 by 1	48 to 72	57x38 to 81x59	20	22	12
	78 to 144	87x63 to 142x91	20	22	12

NOTES:

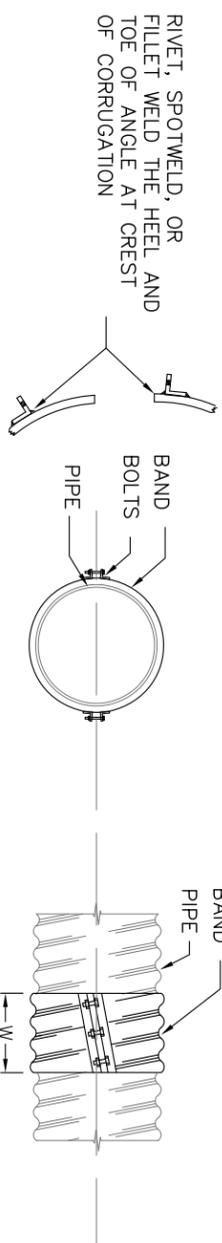
- FABRICATE ANNULAR, HELICAL AND SEMI-CORRUGATED TYPE COUPLING BANDS FROM THE SAME METAL AS THE CONNECTING PIPE. PROVIDE COUPLING BANDS NOT MORE THAN 2 NOMINAL SHEET THICKNESS THINNER THAN THE THICKNESS OF THE PIPE TO BE CONNECTED, AND NO THINNER THAN 0.052 INCH (18 GAGE) FOR STEEL OR 0.048 INCH (18 GAGE) FOR ALUMINUM. FASTEN COUPLING BANDS WITH THE FOLLOWING SIZE OF BOLT:
 - 3/8-INCH FOR PIPE DIAMETER - 18" (21"x15" PIPE ARCH) OR LESS
 - 1/2-INCH FOR PIPE DIAMETER - 21" (24"x18" PIPE ARCH) OR MORE
- FOR HELICALLY CORRUGATED PIPE WITH REROLLED ENDS, THE NOMINAL CORRUGATION SIZE REFERS TO THE DIMENSION OF THE END CORRUGATION IN THE PIPE.
- USE ANNULAR CORRUGATED BANDS WITH PIPES HAVING ANNULAR CORRUGATIONS OR WITH HELICAL PIPE HAVING REROLLED ENDS TO FORM ANNULAR CORRUGATIONS.
- USE HELICAL CORRUGATED BAND WITH PIPES HAVING HELICALLY CORRUGATED ENDS. HELICAL CULVERT INSTALLATIONS SHALL HAVE THE ROLLED SEAM AT THE INLET PLACED IN THE LOWER ONE-HALF OF THE PIPE DIAMETER.
- SMOOTH SLEEVE-TYPE COUPLERS AND FLAT BANDS MAY BE USED FOR PIPE DIAMETERS OF 12 INCHES OR LESS. USE A MATCHING METAL HAVING A NOMINAL THICKNESS OF NOT LESS THAN 0.040 INCH (20 GAGE) FOR STEEL, OR 0.036 INCH (20 GAGE) FOR ALUMINUM, OR A PLASTIC WITH AN EQUIVALENT STRENGTH TO METAL.

GAUGE NUMBER	EQUIVALENT CULVERT THICKNESS	
	STEEL	ALUMINUM
16	0.064	0.060
14	0.079	0.075
12	0.109	0.105
10	0.138	0.135
6	0.168	0.165



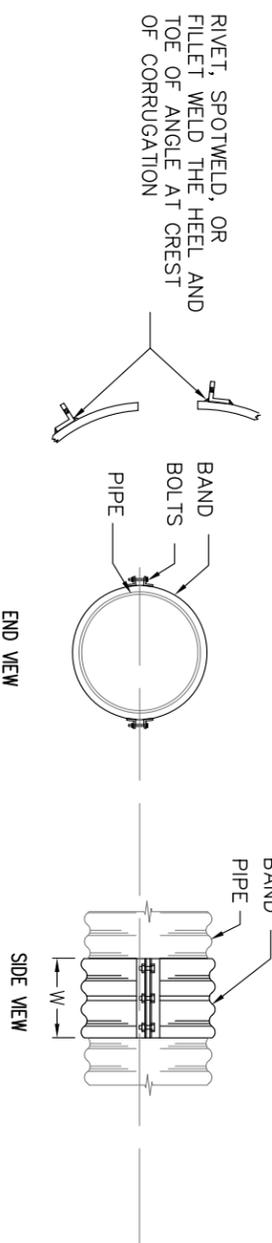
NOTE:
CONTINUOUS CORRUGATION AROUND THE BAND SHALL MESH WITH SECOND ANNULAR CORRUGATION FROM END OF PIPE END.

SEMI-CORRUGATED BAND



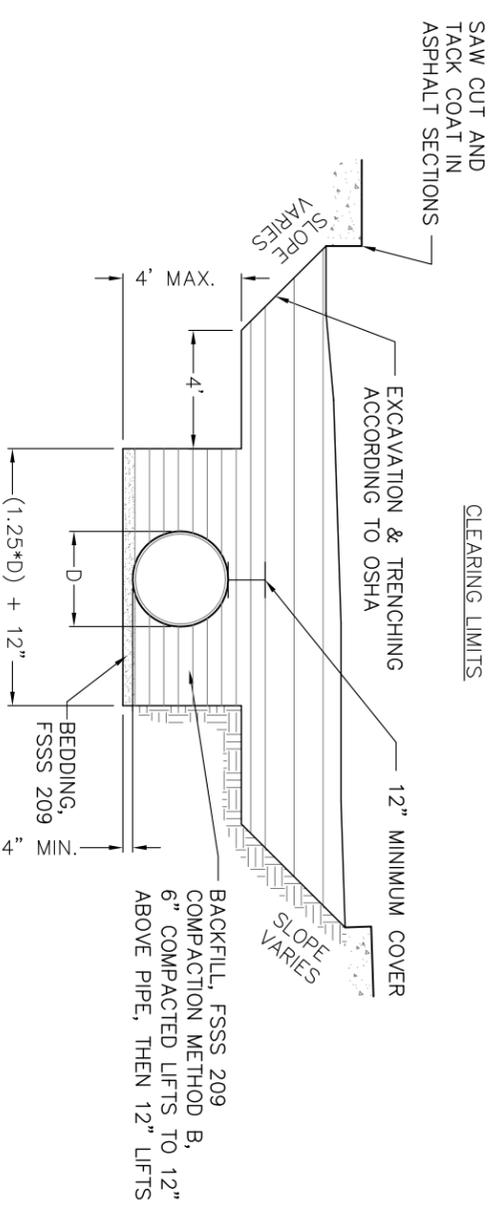
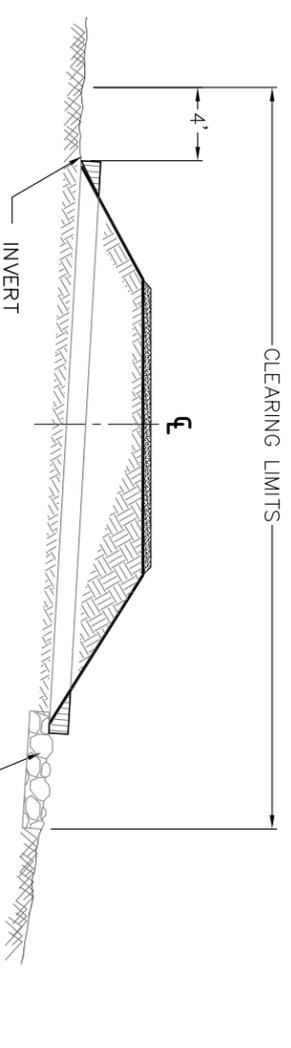
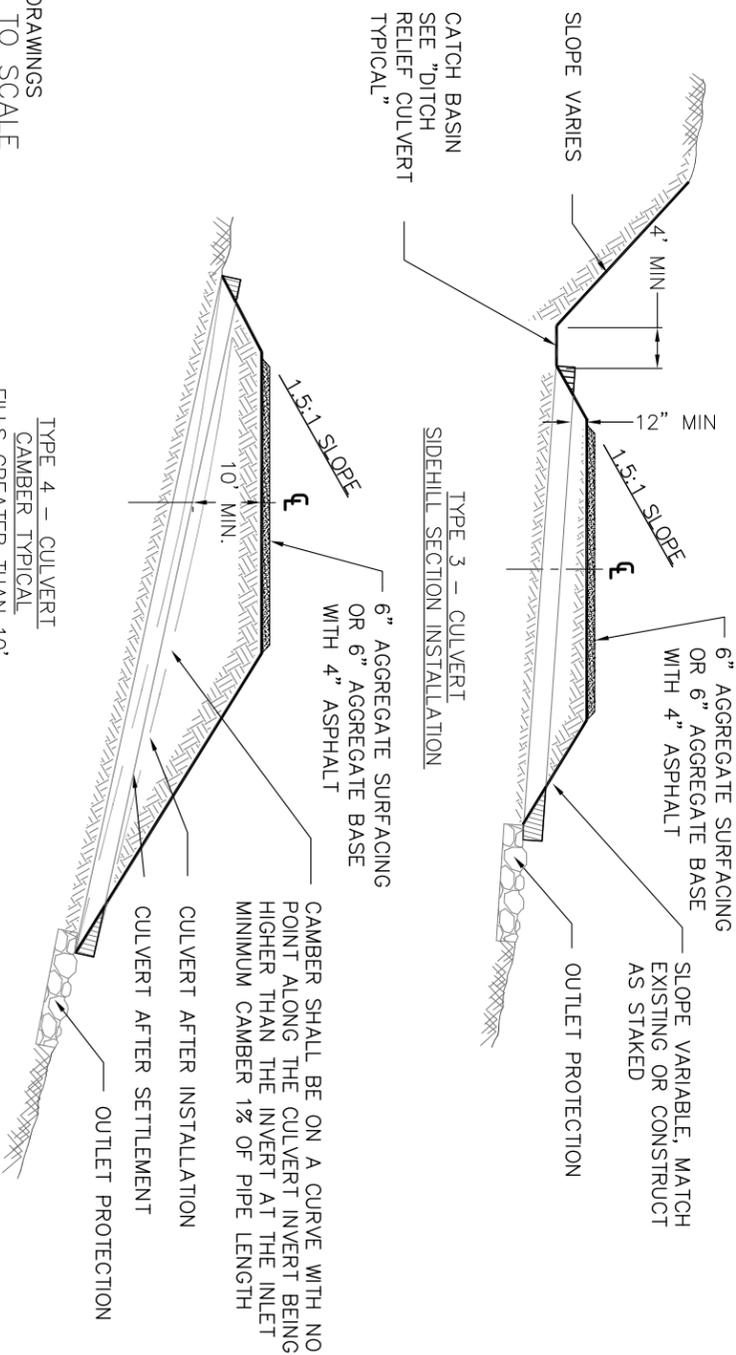
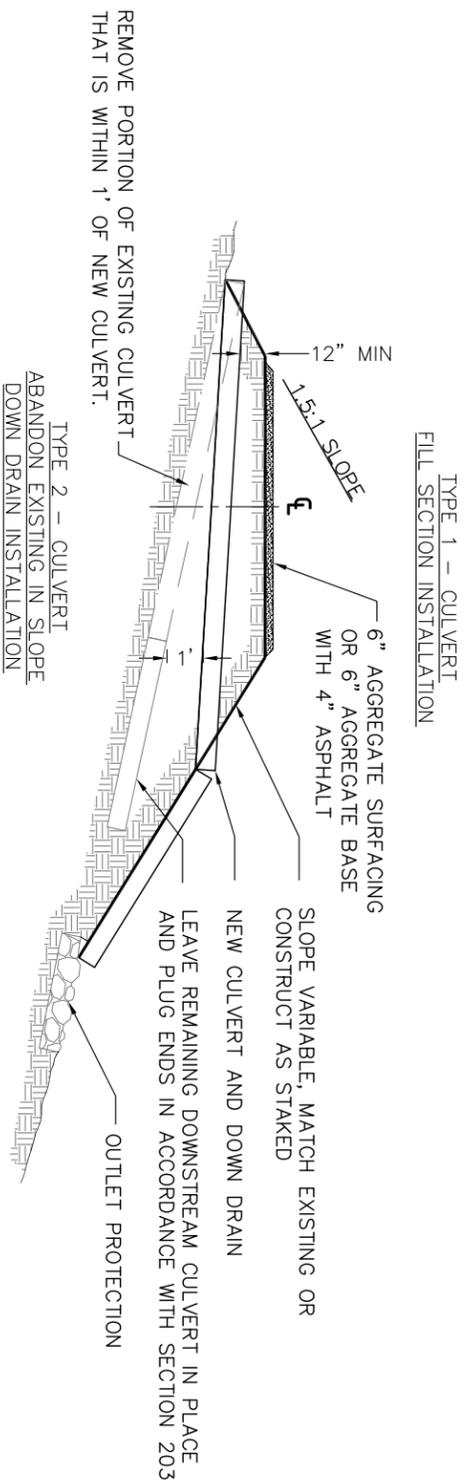
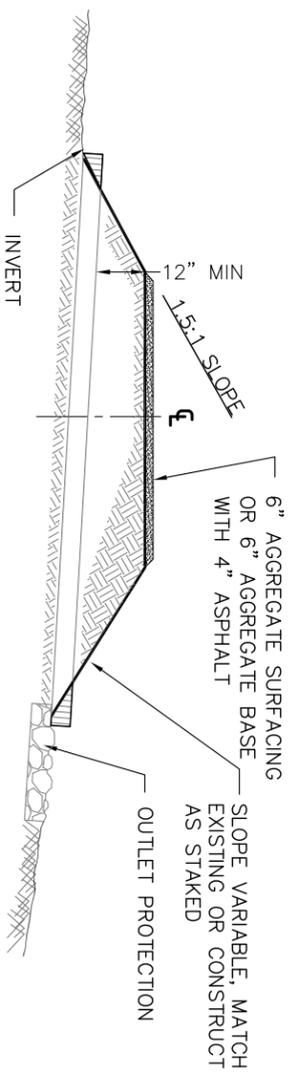
NOTE:
A BAND WITH 2 ANGLE CONNECTIONS IS OPTIONAL UP TO 42" DIA., REQUIRED FOR DIA. GREATER THAN 42".

HELICAL BAND



DRAWINGS
NOT TO SCALE

ANNULAR BAND



NOTES:

1. CLEAR AND GRUB IN ACCORDANCE WITH SECTION 201. SEE PAY ITEM 201 FOR DISPOSAL METHODS.
2. INSTALL NEW CULVERT ACCORDING TO SECTION 602. EXCAVATION, BEDDING, AND BACKFILL ARE INCIDENTAL TO ITEM 602 AND IN ACCORDANCE WITH SECTION 209. USE COMPACTION METHOD B FOR BACKFILL.
3. MATCH EXISTING ROAD WIDTH AND GRADE. IMPORT SELECT BORROW AS NEEDED.
4. PLACE CRUSHED AGGREGATE AT 6" DEPTH OVER CULVERT INSTALLATION FOR ROAD SURFACING OR AS BASE ON FSR 2300000 FOR 4" ASPHALT CONCRETE. SALVAGE EXISTING ROAD AGGREGATE AND UTILIZE AS BASE ROCK.
5. PROVIDE FOR A 25' TRANSITION GRADE INTO INLET OF CULVERT. SEE 'CULVERT CATCH BASIN & OUTLET DITCH'.
6. ALL EXCAVATION AND TRENCHING OPERATIONS SHALL CONFORM TO OSHA REQUIREMENTS.
7. DO NOT OPERATE ANY HEAVY EQUIPMENT OVER ANY CULVERT UNTIL IT HAS BEEN PROPERLY BACK FILLED WITH A MINIMUM OF 1-FOOT COVER.
8. CULVERTS SHALL BE INSTALLED AS STAKED, WITH A MINIMUM OF 8% SLOPE WHERE POSSIBLE.
9. THE MINIMUM LENGTH OF A SINGLE PIPE SECTION FOR ANY INSTALLATION SHALL NOT BE LESS THAN 10 L.F.
10. FIELD CUTTING OF CULVERT IS NOT PERMITTED UNLESS APPROVED BY THE CONTRACTING OFFICER.
11. REMOVE AND DISPOSE OF EXISTING CULVERT ACCORDING TO SECTION 203.

DRAWINGS
NOT TO SCALE



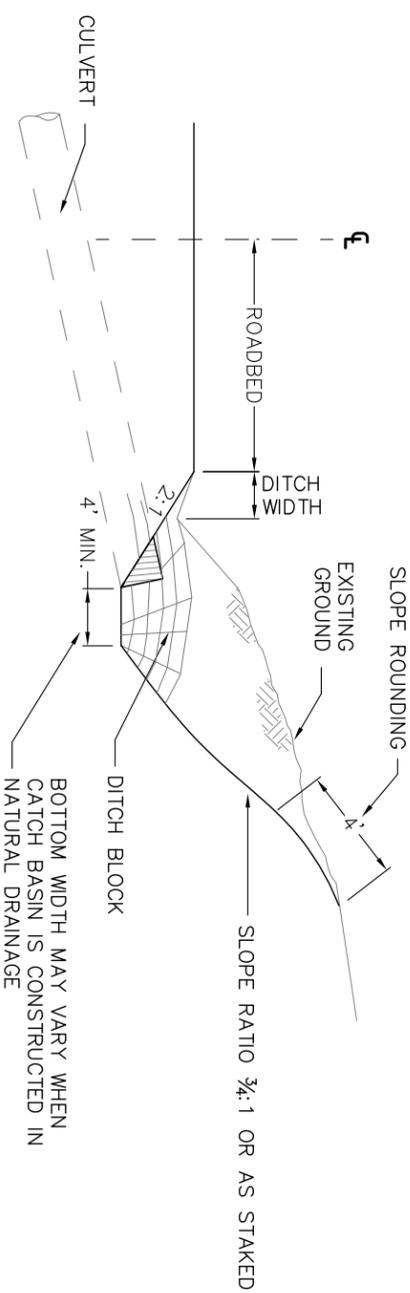
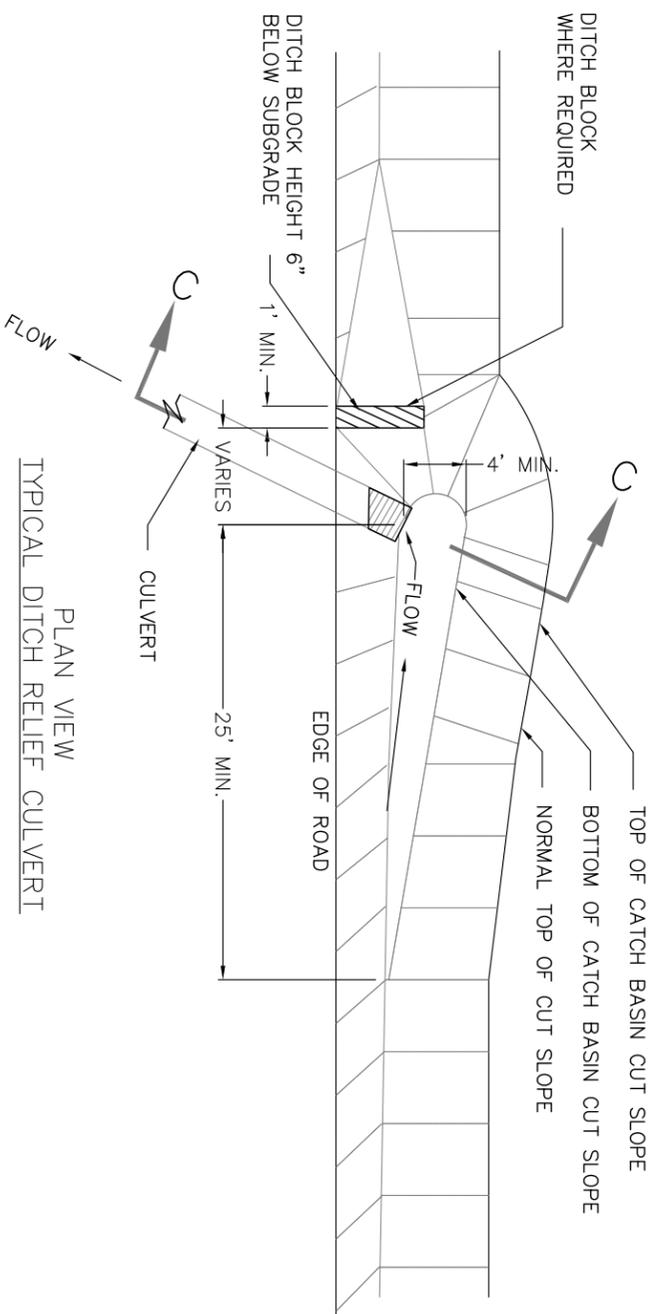
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R6
PACIFIC NORTHWEST REGION

Forest:
**ROGUE RIVER-SISKIYOU
NATIONAL FOREST**
District:
GOLD BEACH RANGER DISTRICT

Design: Lola Coombe
Drawn: Lola Coombe
Checked: Otis Blankenship
Date: 05/2016

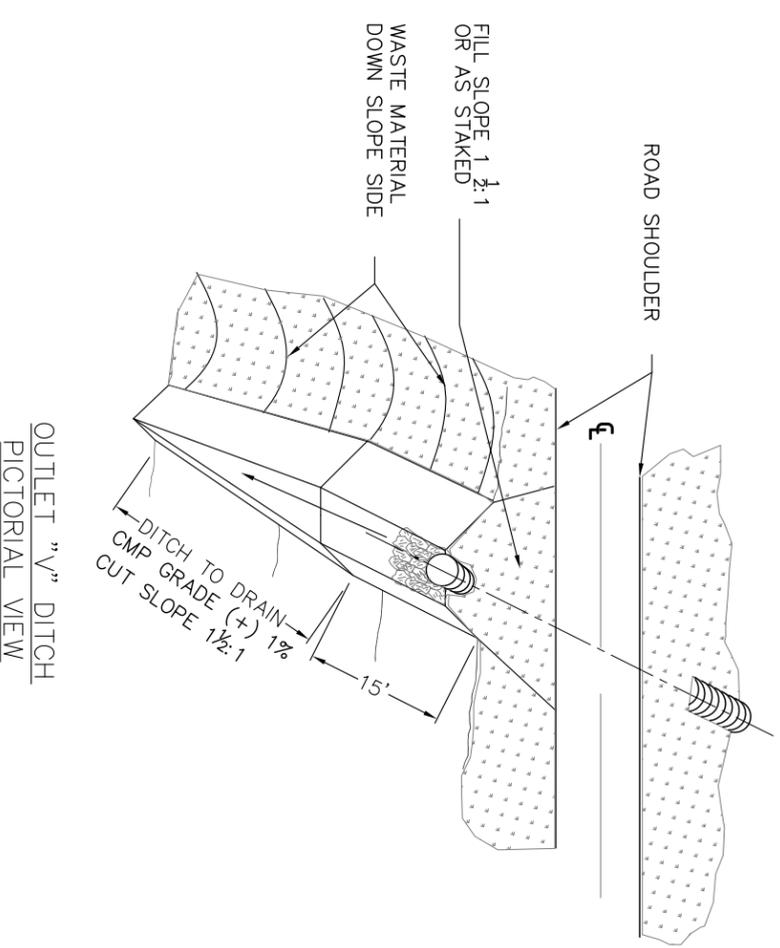
Sheet Title:
CULVERT INSTALLATION & BEDDING
Project No:
GREEN KNOB TIMBER SALE

Sheet **29** OF **34**



NOTE:
 MATERIAL REMOVED IN THE MAINTENANCE, RECONDITIONING, & CLEANING OF CATCH BASINS & CULVERTS SHALL NOT BE DEPOSITED ON / OR ABOVE CUT SLOPES. MATERIAL MAY BE DEPOSITED ON FILL SLOPE TO A DEPTH OF NOT MORE THAN 4 INCHES WHEN APPROVED BY THE CONTRACTING OFFICER. OTHERWISE ALL MATERIAL SHALL BE REMOVED FROM NATIONAL FOREST LANDS IN A LEGAL MANNER OR DISPOSAL AREA AS APPROVED BY THE CONTRACTING OFFICER.

DRAWINGS
 NOT TO SCALE



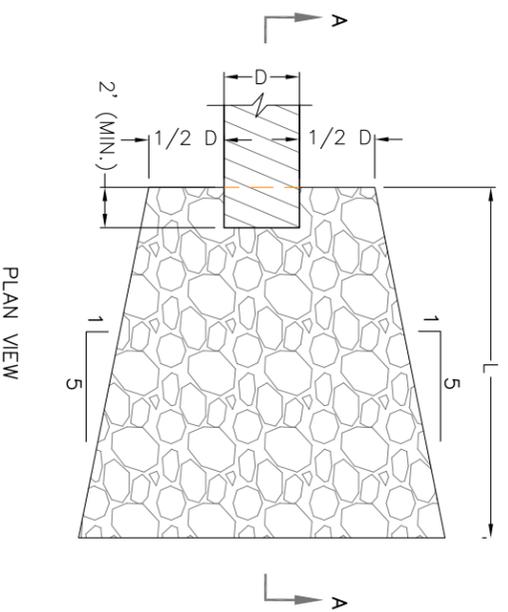
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Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**
 District: **GOLD BEACH RANGER DISTRICT**

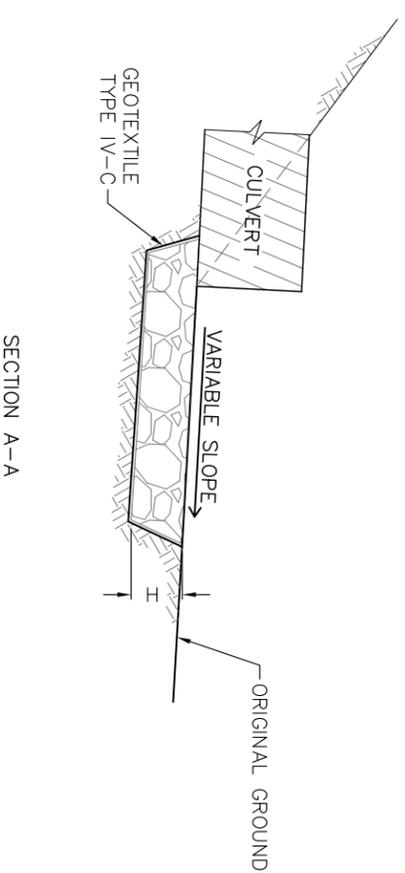
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 Checked: Otis Blankenship
 Date: 05/2016

Sheet Title:
CULVERT CATCH BASIN & OUTLET DITCH
 GREEN KNOB TIMBER SALE

Project No:
 Sheet **30** OF **34**



PLAN VIEW



SECTION A-A

TYPE A CULVERT OUTLET PROTECTION

TYPE A CULVERT OUTLET PROTECTION DIMENSIONS AND ESTIMATED QUANTITIES					
CULVERT SIZE D (inches)	RIPRAP CLASS	LENGTH OF APRON L (feet)	DEPTH OF APRON H (feet)	ESTIMATED RIPRAP QUANTITY (CY)	ESTIMATED GEOTEXTILE QUANTITY (SY)
18	2	10	1.5	3	11
24	3	12	1.5	4	15
30	3	14	2	8	22
36	3	16	2	11	28
42	4	18	2.5	18	37
48	4	20	2.5	22	44

NOTES:

1. FURNISH GEOTEXTILE CONFORMING TO FP-03 SUBSECTION 714.01(o).
2. EXCAVATION FOR PLACEMENT OF RIPRAP WILL NOT BE MEASURED FOR PAYMENT.
3. RIPRAP SHALL BE PLACED BEFORE OR DURING CULVERT INSTALLATION.

DRAWINGS
NOT TO SCALE



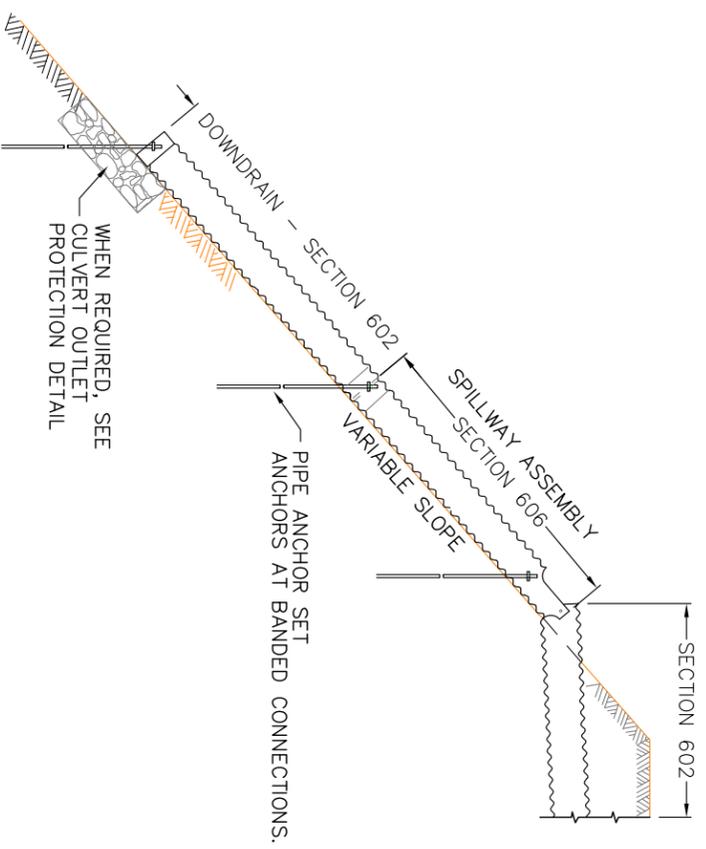
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Forest: **ROGUE RIVER-SISKIYOU
NATIONAL FOREST**
District: **GOLD BEACH RANGER DISTRICT**

Design: Lola Coombe
Drawn: Lola Coombe
Checked: Otis Blankenship
Date: 05/2016

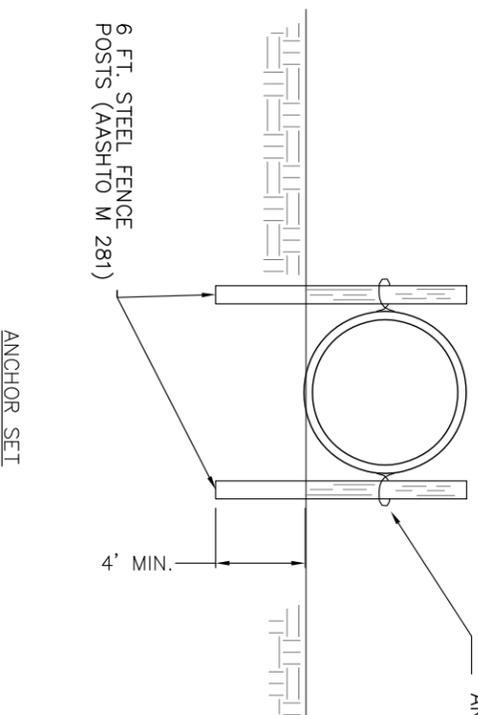
Sheet Title: **CULVERT OUTLET
RIPRAP PROTECTION**
GREEN KNOB TIMBER SALE

Project No: _____
Sheet **31** OF **34**



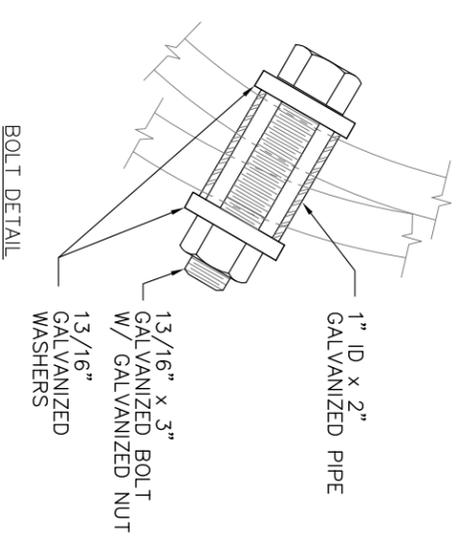
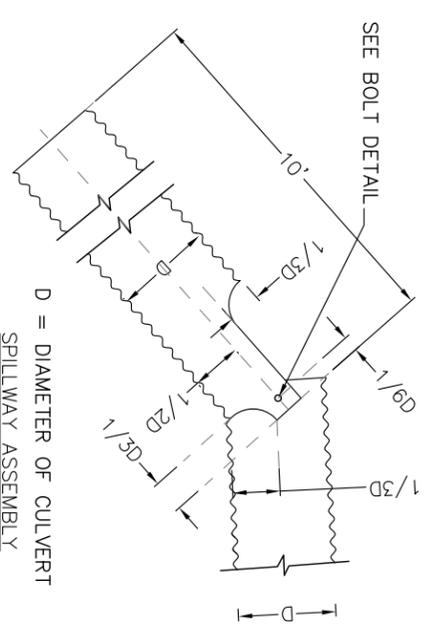
ELEVATION

3 STRANDS OF NO. 9 WIRE TWISTED TOGETHER, WRAPPED AROUND PIPE, AND SECURED TO POSTS.



ANCHOR SET

- NOTES:
1. FABRICATE SPILLWAY ASSEMBLY FROM ANNULAR CORRUGATED PIPE, OR FROM HELICALLY CORRUGATED PIPE WITH FACTORY ANNULAR OR REFORMED ENDS.
 2. ANCHOR SETS SHALL CONSIST OF 2-SIX FOOT METAL FENCE POSTS (AASHTO M 281) AND NO. 9 GALVANIZED WIRE. 3 STRANDS OF WIRE SHALL BE TWISTED TOGETHER AND WRAPPED AROUND THE ENTIRE CIRCUMFERENCE OF THE PIPE.
 3. WHEN REQUIRED, PLACE RIPRAP CONFORMING TO SECTION 251 FOR PROTECTIVE APRON.
 4. GALVANIZE ALL ITEMS OF ANCHOR ASSEMBLY AFTER FABRICATION.
 5. ALTERNATE DESIGNS MAY BE USED IF APPROVED BY THE CONTRACTING OFFICER.



DRAWINGS
NOT TO SCALE



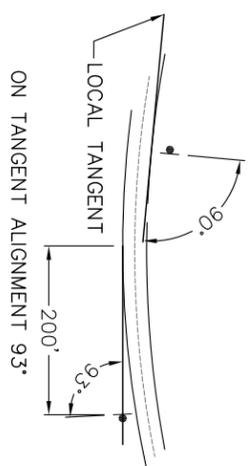
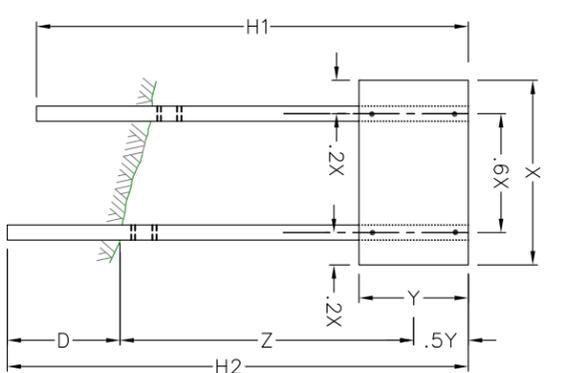
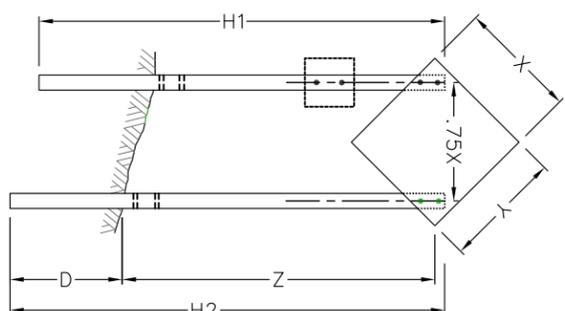
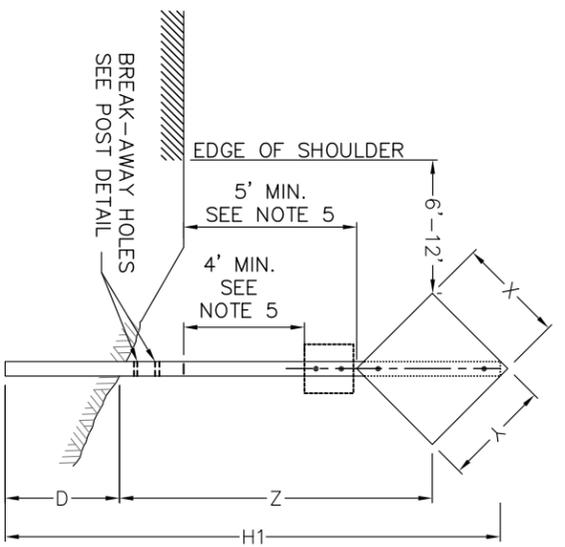
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
R6
PACIFIC NORTHWEST REGION

Forest: **ROGUE RIVER-SISKIYOU NATIONAL FOREST**
District: **GOLD BEACH RANGER DISTRICT**

Design: Lola Coombe
Drawn: Lola Coombe
Checked: Otis Blankenship
Date: 05/2016

Sheet Title:
CULVERT DOWN DRAIN WITH ANCHOR ASSEMBLY
GREEN KNOB TIMBER SALE

Project No:
Sheet **32** OF **34**



DRAWINGS
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SIGN INSTALLATION ANGLE

WOOD POST SELECTION TABLE

SIGN SHAPE	X x Y	NUMBER OF POSTS	Z IS 10' OR LESS				Z IS GREATER THAN 10'				
			POST SIZE	D	HOLE SIZE	NOTCH DEPTH	POST SIZE	D	HOLE SIZE	NOTCH DEPTH	
	30" X 30"	1	4" X 4"	36"	0	0	1	4" X 6"	48"	1 1/2"	0
	30" X 30"	1	4" X 4"	36"	0	0	1	4" X 6"	48"	1 1/2"	0
	36" X 36"	1 or 2	4" X 6"	48"	1 1/2"	0	1	4" X 6"	48"	1 1/2"	0
	36" X 36"	1 or 2	4" X 6"	48"	1 1/2"	0	1	4" X 6"	48"	1 1/2"	0
	48" X 48"	1	4" X 6"	48"	1 1/2"	0	1	6" X 8"	48"	3"	0
	48" X 48"	1	4" X 6"	48"	1 1/2"	0	1 or 2	4" X 6"	48"	1 1/2"	1 3/4"
	60" X 30"	2	4" X 4"	36"	0	0	2	4" X 6"	48"	1 1/2"	1 3/4"
	60" X 30"	2	4" X 4"	36"	0	0	2	4" X 6"	48"	1 1/2"	1 3/4"
	78" X 42"	2	4" X 6"	48"	1 1/2"	1 3/4"	2	4" X 6"	48"	1 1/2"	1 3/4"
	78" X 42"	2	4" X 6"	48"	1 1/2"	1 3/4"	2	4" X 6"	48"	1 1/2"	1 3/4"
	96" X 48"	2	4" X 6"	48"	1 1/2"	1 3/4"	2	6" X 8"	48"	3"	2 1/4"

- NOTE:
- ATTACH SIGN PANELS WITH A MINIMUM OF 2 - 1/4" DIA. BOLTS PER POST.
 - MOUNT SIGNS SMALLER THAN LISTED ON A SINGLE 4" X 4" POST. FOR SIGNS NOT SHOWN, USE NEXT LARGEST SIZE.
 - H1 AND H2 = OVERALL POST LENGTH. SELECT POST LENGTHS TO FIT FIELD CONDITIONS.
 - D = POST EMBEDMENT DEPTH FOR AVERAGE SOIL CONDITIONS.
 - WHEN PEDESTRIANS ARE PRESENT, OR IN AREAS WHERE THE VIEW IS OBSTRUCTED, USE 7' MINIMUM MOUNTING HEIGHT.
 - USE TYPE III OR HIGHER TYPE SHEETING ON ALL SIGNS AND CHANNELIZING DEVICES. WARNING LIGHTS ARE NOT NORMALLY NEEDED ON DEVICES WITH TYPE III OR HIGHER TYPE SHEETING, BUT MAY BE BENEFICIAL TO ATTRACT THE DRIVERS ATTENTION IN FOG OR OTHER SPECIAL CONDITIONS. WHEN USED, APPLY THE APPROPRIATE TYPE OR WARNING LIGHT (TYPE A, B, C, OR D) PER THE MUTCD CHAPTER 6F.
 - ENSURE ALL SIGN SUPPORTS EXPOSED TO IMPACT BY TRAFFIC MEET THE REQUIREMENTS OF NCHRP-350 FOR CRASH WORTHINESS.
 - DO NOT STORE TRAFFIC CONTROL DEVICES ALONG THE ROADWAY WHEN NOT IN USE. COVER POST-MOUNTED SIGNS WHEN NOT APPLICABLE.
 - STATE STANDARDS MAY BE USED AS AN ALTERNATIVE IF APPROVED BY THE CONTRACTING OFFICER.

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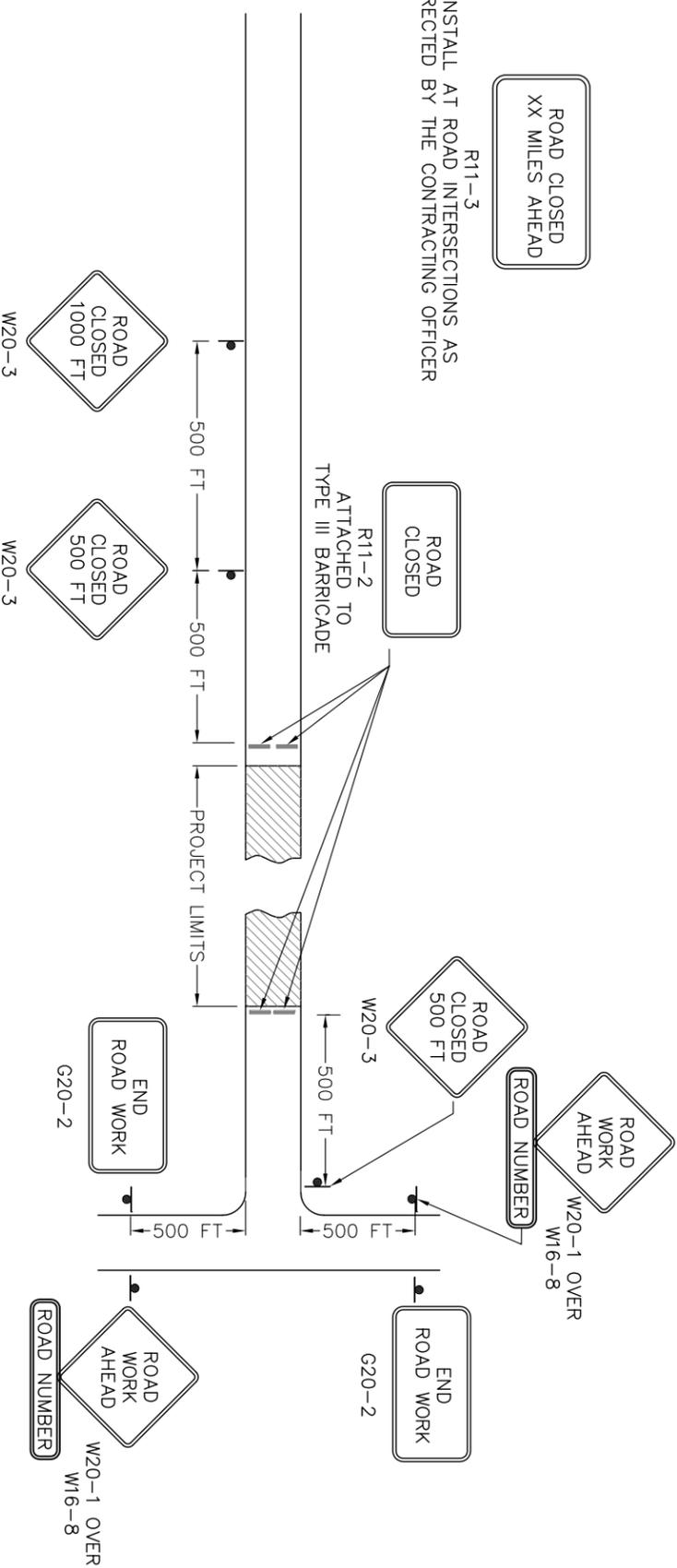
Design: Lola Coombe
Drawn: Lola Coombe
Checked: Otis Blankenship
Date: 05/2016

Sheet Title: **TEMPORARY TRAFFIC CONTROL - POST DETAIL**
GREEN KNOB TIMBER SALE

Project No: _____
Sheet **33** OF **34**

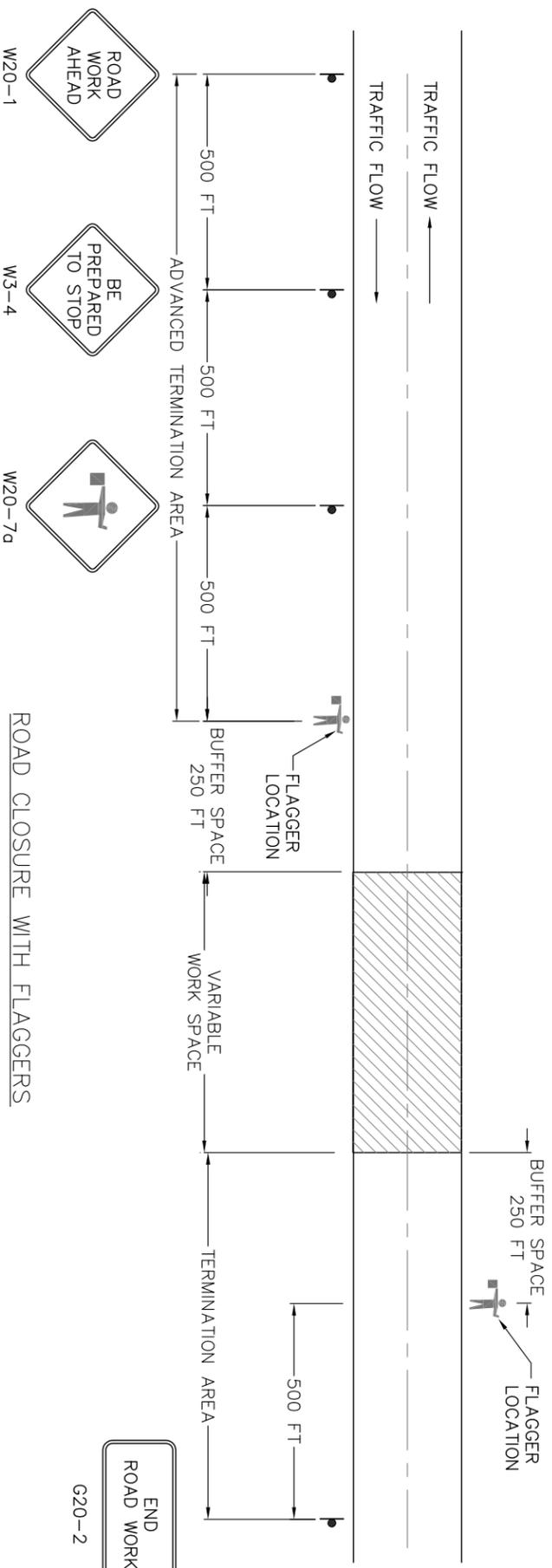
ROAD CLOSED
XX MILES AHEAD

R11-3
INSTALL AT ROAD INTERSECTIONS AS
DIRECTED BY THE CONTRACTING OFFICER



ROAD CLOSURE WITHOUT FLAGGERS

- NOTE
1. ERECT ALL ADVANCE WARNING SIGNS BEFORE STARTING CONSTRUCTION WORK.
 2. NOT ALL DETAILS SHOWN ON THE TEMPORARY TRAFFIC CONTROL SHEETS MAY BE APPLICABLE TO THIS PROJECT. THE CONTRACTOR MAY ADD OR DELETE INFORMATION AND DETAILS IN THIS TRAFFIC CONTROL PLAN AS NECESSARY TO ACCOMMODATE ACTUAL OPERATIONS WITH WRITTEN APPROVAL FROM THE CONTRACTING OFFICER.
 3. WHERE ADVANCE WARNING SIGNS, PLACED AS SHOWN, INTERFERE WITH PERMANENT SIGNS, LOCATE THE WARNING SIGNS AS DETERMINED BY THE CO FOR BEST RESULTS. VARY MESSAGES AS REQUIRED.
 4. ADDITIONAL OR DIFFERENT MESSAGE SIGNS MAY BE REQUIRED TO FIT THE ACTUAL CONSTRUCTION CONDITIONS.
 5. IF W20-1 IS ON A ROADWAY OTHER THAN THAT ON WHICH THE ACTUAL CONSTRUCTION WORK OCCURS, INCLUDE A SUPPLEMENTARY PLAQUE INDICATING THE NAME OF THE ROAD THE WORK IS ON.
 6. IF SIGNS WILL BE IN PLACE MORE THAN 72 CONSECUTIVE HOURS, USE GROUND-MOUNTED POSTS.



ROAD CLOSURE WITH FLAGGERS

- NOTE
1. SIGNS ARE SHOWN FOR ONE DIRECTION OF TRAVEL ONLY. PLACE DEVICES SIMILAR TO THOSE DEPICTED FOR THE OPPOSITE DIRECTION OF TRAVEL.
 2. FINAL LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE CHANGED TO FIT FIELD CONDITIONS AS APPROVED BY THE CO.
 3. FOR PILOT CAR OPERATION, MOUNT THE "PILOT CAR FOLLOW ME" (G20-4) SIGN AT A CONSPICUOUS LOCATION ON THE REAR OF VEHICLE. PROMINENTLY DISPLAY THE NAME OF THE CONTRACTOR ON THE PILOT CAR.
 4. FOR NIGHT TIME FLAGGING OPERATION, PROVIDE FLOODLIGHTING AT FLAGGER STATIONS PER OSHA REGULATIONS.
 5. DO NOT ALLOW EQUIPMENT, MATERIALS, OR VEHICLES TO BE PARKED OR STORED IN THE BUFFER SPACE.

DRAWINGS
NOT TO SCALE



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PACIFIC NORTHWEST REGION

Forest:
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NATIONAL FOREST
District:
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Design: Lola Coombe
Drawn: Lola Coombe
Checked: Otis Blankenship
Date: 05/2016

Sheet Title:
TEMPORARY TRAFFIC CONTROL -
SINGLE LANE CLOSURE LAYOUT
GREEN KNOB TIMBER SALE

Project No:
Sheet 34 OF 34