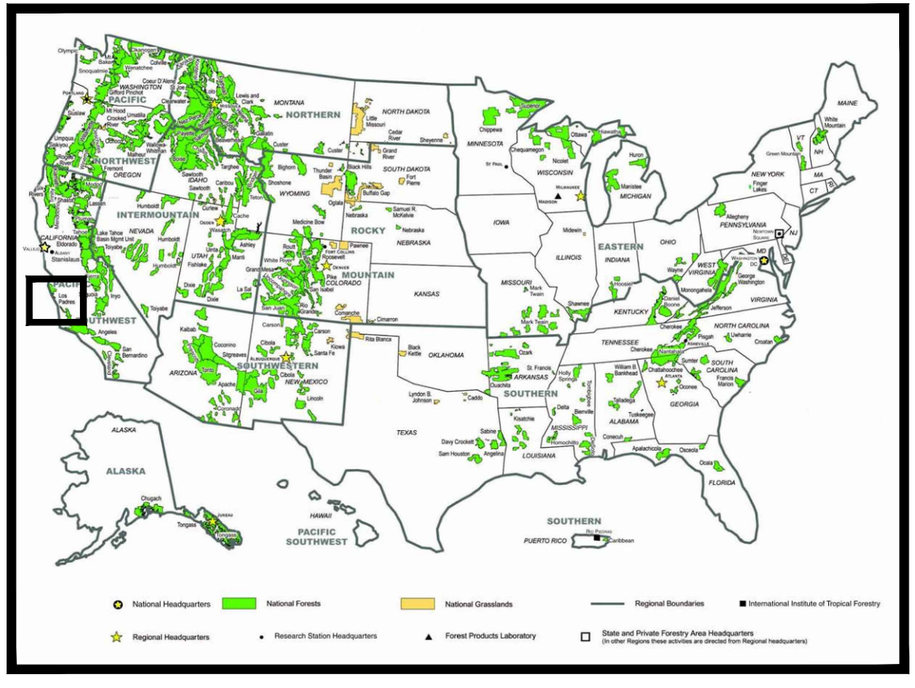
United States Department of Agriculture
Forest Service

CALIFORNIA
MONTEREY COUNTY
(R05) SOUTTHWEST PACIFIC REGION
LOS PADRES NATIONAL FOREST
MONTEREY RANGER DISTRICT

FSR 20S05.3 STORM DAMAGE REPAIR
SITE 2



FOREST LOCATION MAP

PROJECT LOCATION MAP

TRAVEL DIRECTIONS:

FROM BRADLEY, CA HEAD NORTH ON TO US HWY 101 NORTH. GET OFF AT EXIT 252 JOLON ROAD TOWARDS FORT HUNTER-LIGGETT. STAY ON JOLON ROAD FOR 21.3 MILES, TURN LEFT ON TO MISSION ROAD AND STAY ON THIS ROADWAY FOR 4 MILES. TAKE A SHARP LEFT TO STAY ON MISSION ROAD, THIS TURNS INTO NACIMIENTO - FERGUSSON ROAD. STAY ON NACIMIENTO - FERGUSSON ROAD FOR 17 MILES. TURN RIGHT ON TO FSR 20S05.3 (CONE PEAK ROAD) AND CONTINUE FOR 3 MILES

INDEX OF SHEETS

SHEET	SHEET TITLE	DATE
G-101	COVERSHEET	01/11/25
C-102	SITE 2 SITE PLAN	01/11/25
C-103	SITE 2 RSS CROSS SECTION, CULVERT ALIGNMENT AND DRAIN DETAILS	01/11/25
C-104	SITE 2 REINFORCED SOIL SLOPE	01/11/25
C-105	SITE 2 CULVERT DETAILS	01/11/25
C-106	DOWNDRAIN DETAILS	01/11/25
C-107	DOWNDRAIN ANCHOR ASSEMBLY DETAILS	01/11/25
C-108	DROP INLET DETAILS	8/25/2025
C-109	EROSION CONTROL DETAILS	8/25/2025

RECOMMENDED BY:

FOREST ENGINEER _____ DATE _____

DISTRICT RANGER _____ DATE _____

FOREST SUPERVISOR _____ DATE _____

RO FACILITIES PROGRAM MANAGER _____ DATE _____

APPROVED:

DIRECTOR OF ENGINEERING _____ DATE _____

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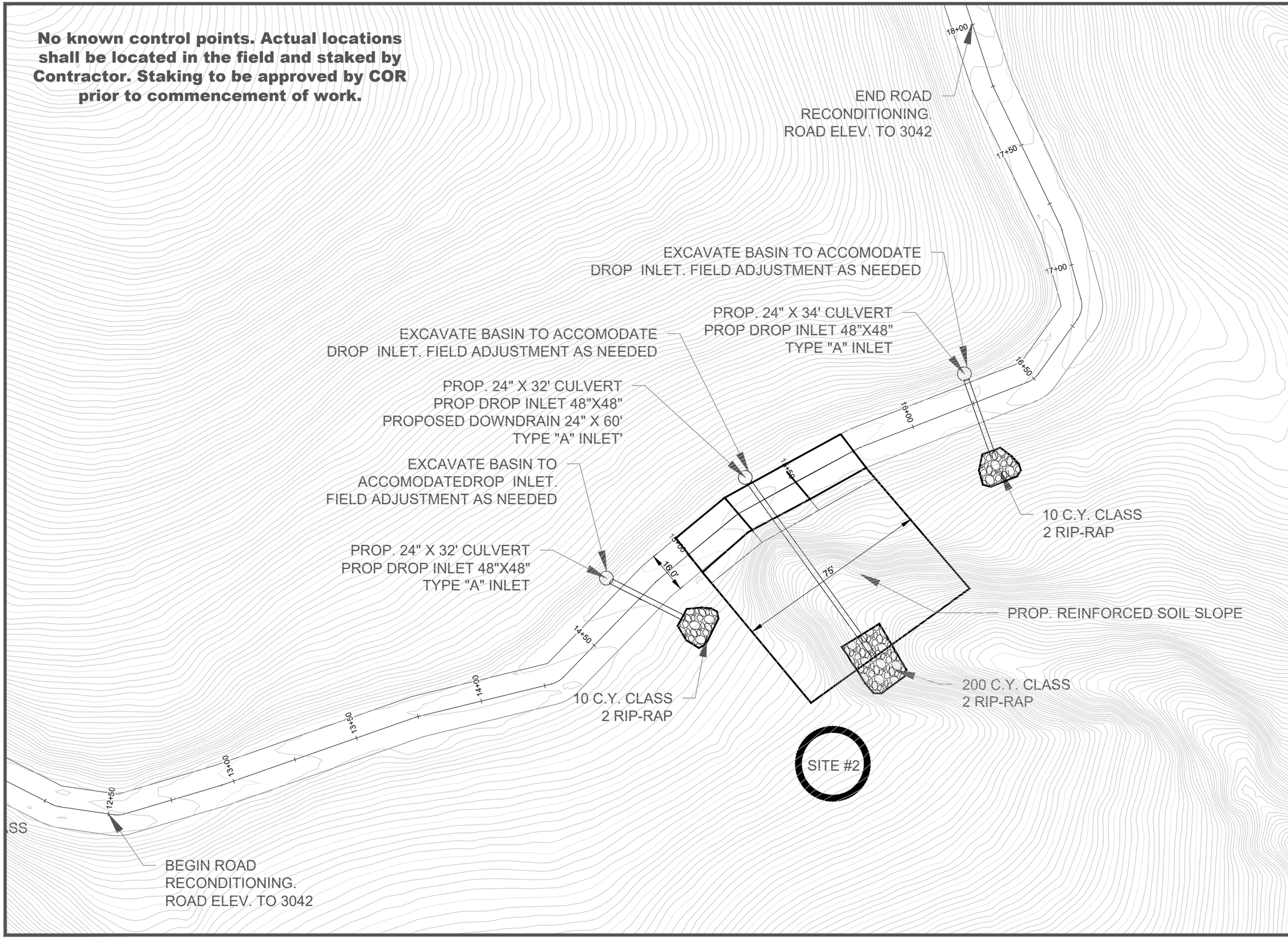
No known control points. Actual locations shall be located in the field and staked by Contractor. Staking to be approved by COR prior to commencement of work.



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United States Department of Agriculture
Forest Service

(R05)
Pacific Southwest Region

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
4		
3		
2		
1		

PROJECT NAME

FSR 20S05.3 - Storm Damage

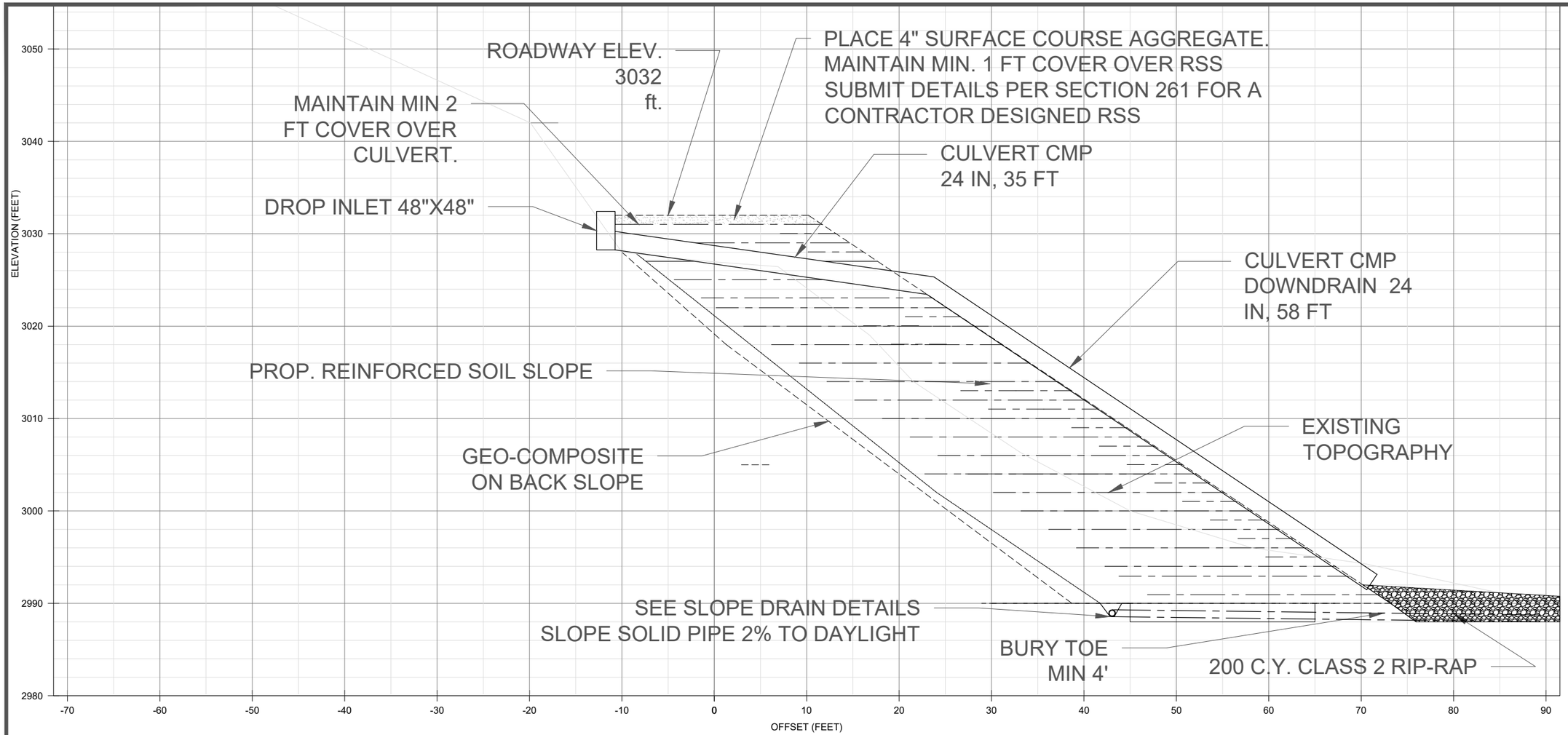
Los Padres National Forest

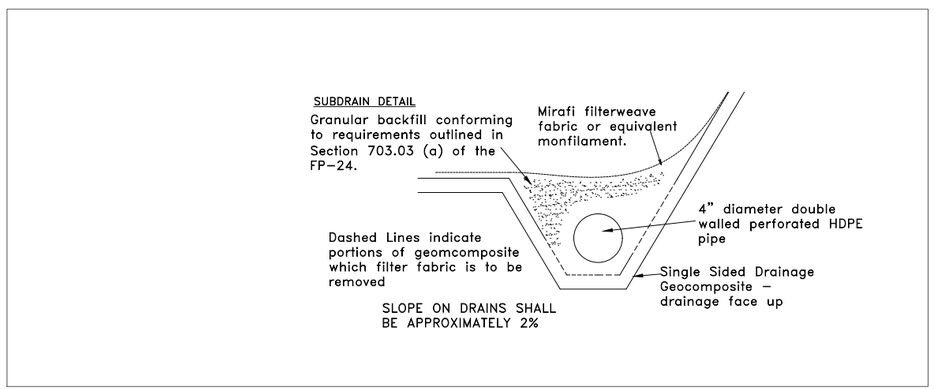
MONTEREY RANGER DISTRICT

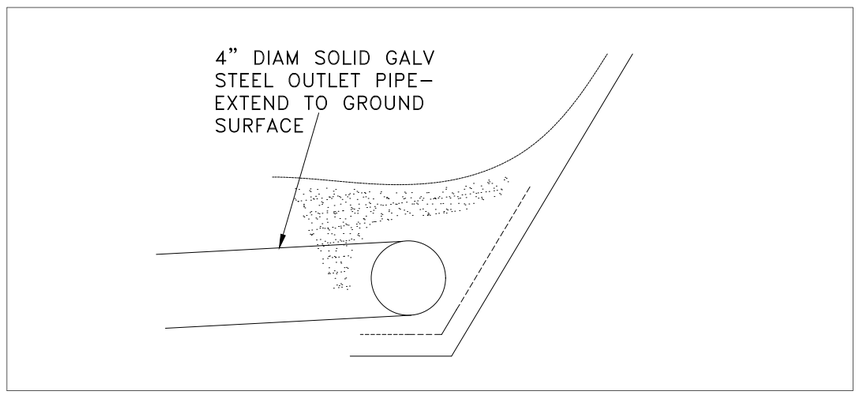
DRAWING TITLE

SITE 2 SITE PLAN

DATE: XX/XX/XXXX	ARCHIVE NO.
DESIGNER: B.COUPE	DRAWING SHEET NO. C-102
DRAWN: B.COUPE	
CHECKED: F.K.	
PROJECT NO.	SHEET 2 OF 09







SLOPE DRAIN DETAILS

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Pacific Southwest Region

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PROJECT NAME
FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

DRAWING TITLE
SITE 2 RSS CROSS SECTION, CULVERT ALIGNMENT DRAIN DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-103
DRAWN B.COUPE	
CHECKED F.K.	
PROJECT NO.	SHEET 3 OF 09

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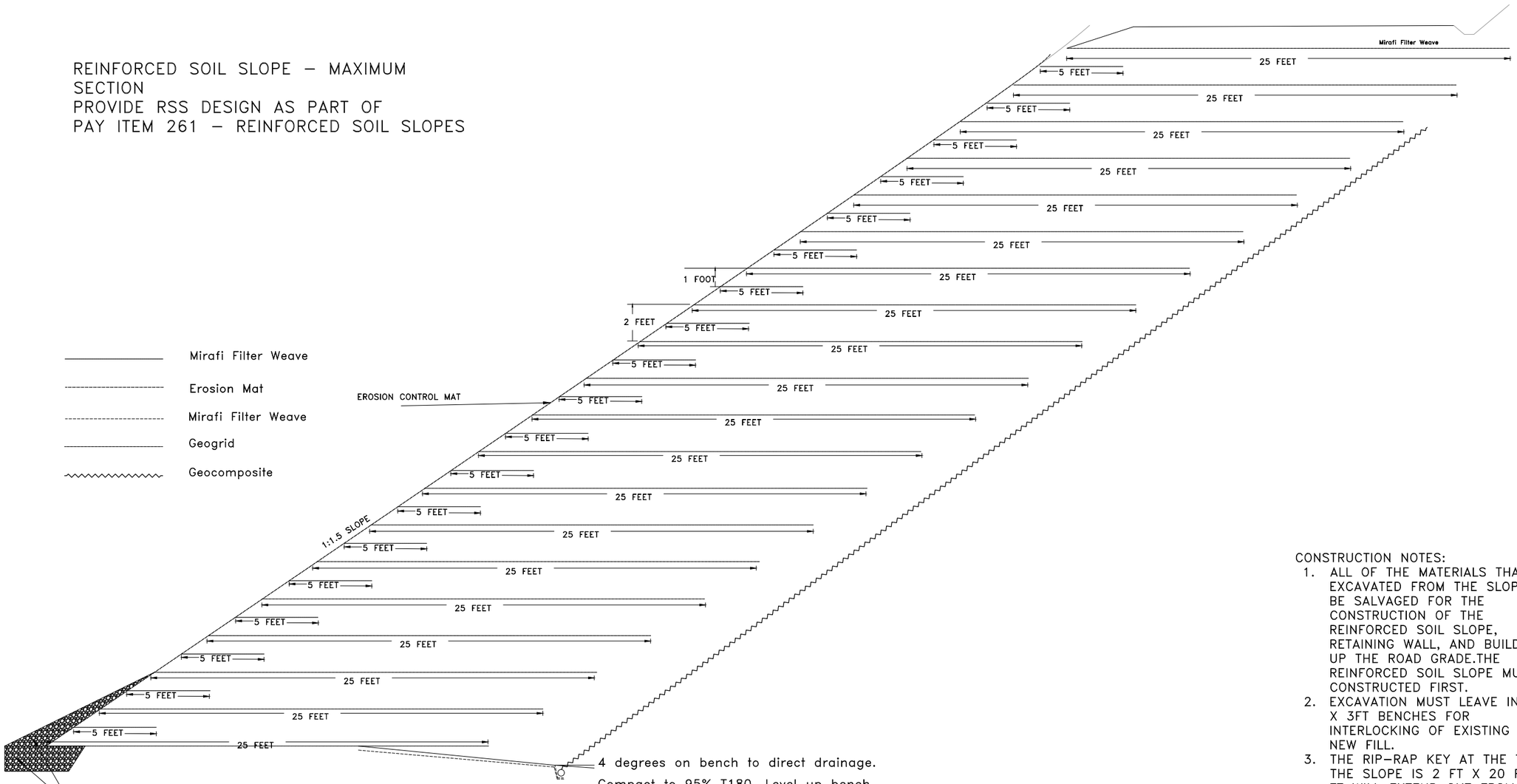
REINFORCED SOIL SLOPE – MAXIMUM SECTION
PROVIDE RSS DESIGN AS PART OF PAY ITEM 261 – REINFORCED SOIL SLOPES



Mirafi Filter Weave

Erosion Mat

Mirafi Filter Weave

Geogrid

Geocomposite

4 degrees on bench to direct drainage. Compact to 95% T180. Level up bench upon installing drain prior to construction of wall.

REQUIRED MATERIALS:
1. DRAIN PIPE: For NON PERFORATED DAYLIGHTED SECTION, USE A NON–COMBUSTABLE PRODUCT SUCH AS STAINLESS STEEL OF GALVENIZED STEEL
2. GEOCOMPOSITE: USE DOUBLE SIDED DRAIN
3. HDPE FILTER FABRIC GEOTEXTILE: Use Mirafi monofilament (filterweave) or equivalent.

4. GEOGRID: Tensar UX1700 MSE or equivalent.

REQUIRED MATERIALS:
1. HDPE DRAIN PIPE: Non–perforated and perforated, double walled, 4" diameter HDPE pipe. Use Hancor Hi–Q or equivalent.

2. GEOCOMPOSITE: Use Aquadrain 20H on foundation with the drainage surface facing up or equivalent.

3. HDPE FILTER FABRIC GEOTEXTILE: Use Mirafi monofilament (filterweave) or equivalent.

4. WELDED WIRE RETAINING WALL: Hilfiker or equivalent.

5. GEOGRID: Tensar UX1700 MSE or equivalent.

CONSTRUCTION NOTES:
1. ALL OF THE MATERIALS THAT ARE EXCAVATED FROM THE SLOPE WILL BE SALVAGED FOR THE CONSTRUCTION OF THE REINFORCED SOIL SLOPE, RETAINING WALL, AND BUILDING UP THE ROAD GRADE.THE REINFORCED SOIL SLOPE MUST BE CONSTRUCTED FIRST.
2. EXCAVATION MUST LEAVE IN 3 FT X 3FT BENCHES FOR INTERLOCKING OF EXISTING AND NEW FILL.
3. THE RIP–RAP KEY AT THE TOE OF THE SLOPE IS 2 FT X 20 FT. 4 FT WILL EXTEND OUT FROM THE TOE OF THE SLOPE AND RUN UP THE SLOPE TO ELEV. 2994 FT. BOTTOM ELEV. OF THE RIP–RAP KEY IS 2988 FT.
4. THE BOTTOM LAYER OF THE REINFORCED SOIL SLOPE WILL BE AT ELEV. 2990 FT.
5. THERE ARE TWO REINFORCEMENTS ON THE SLOPE; GEOGRID (25 FT LONG, PLACED IN 2 FT LIFTS), AND GEOFABRIC (5 FT LONG, PLACED IN 1 FT LIFTS BETWEEN THE GEOGRID LAYERS.
6. THE SLOPE OF SOLID PIPE SECTION WILL DAYLIGHT AT A 2% SLOPE AT STATIONS 15+00, 15+35, 15+75. LENGTH OF PIPE NEEDED IS AT EACH STATION IS APPROXIMATELY 45 FT. FIELD VERIFY PRIOR TO INSTALLATION.
7. COMPACTION WILL BE TO 95%.

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FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

DRAWING TITLE

SITE 2 REINFORCED SOIL SLOPE

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-104
DRAWN B.COUPE	
CHECKED F.K.	
PROJECT NO.	SHEET 4 OF 09

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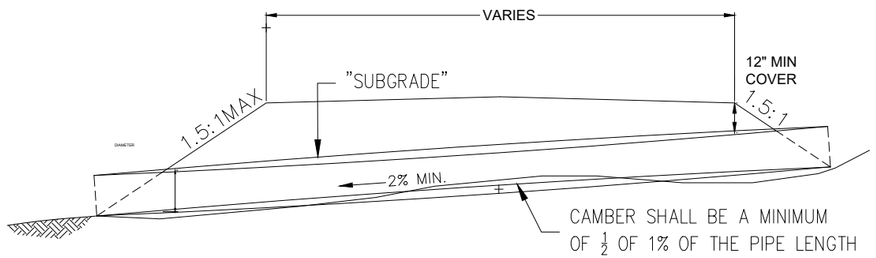
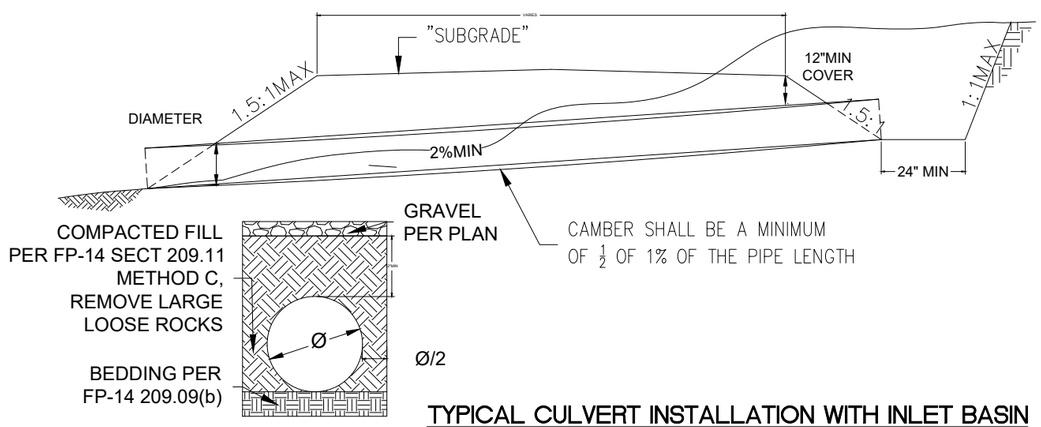
TYPICAL CULVERT INSTALLATION DETAILS

N.T.S.



TYPICAL CULVERT INSTALLATION



TYPICAL CULVERT INSTALLATION WITH INLET BASIN

PIPE INSTALLATION

NOTES - ALL ROADS:

1. THE OUTLETS OF ALL PIPE TO BE INSTALLED AND ALL EXISTING PIPE TO REMAIN SHALL BE CONSTRUCTED OR RECONSTRUCTED TO PROVIDE FOR A MINIMUM OF A -1% DRAINAGE SLOPE AWAY FROM ALL CSP FOR A MINIMUM OF 50'. WHERE NECESSARY, CULVERTS SHALL HAVE A LEAD OFF DITCH OF SUFFICIENT LENGTH TO ASSURE AN ADEQUATE DRAINAGE OUTLET. PAYMENT FOR THE CONSTRUCTION OF LEAD OFF DITCHES UP TO 50' HAS BEEN INCLUDED IN CULVERT PAY ITEMS.
2. CULVERTS NOTED TO BE SKEWED ON THE PLANS SHALL BE SKEWED AS STAKED BY THE ENGINEER.
3. ALL EXISTING PIPE LISTED FOR REMOVAL SHALL BE DISPOSED OFF GOVERNMENT PROPERTY. IN MULTIPLE PIPE INSTALLATIONS, THE ADJACENT SIDES OF PIPE SHALL BE AT LEAST ONE-HALF THE NOMINAL PIPE DIAMETER APART OR 3', WHICHEVER IS LESS.
4. BACKFILL AROUND CULVERTS IS COMPACTION METHOD B, OF SPECIAL PROJECT SPECIFICATIONS SUB PARAGRAPH 209.11 - “ADJUST THE MOISTURE CONTENT OF THE BACKFILL MATERIAL TO A MOISTURE CONTENT SUITABLE FOR COMPACTION. COMPACT EACH LAYER USING APPROPRIATE COMPACTION EQUIPMENT UNTIL VISUAL DISPLACEMENT CEASES.”
5. ALL GROUND DISTURBED OUTSIDE OF THE ROADBED IS REQUIRED TO BE SEEDED AND MULCHED, UNLESS NOTED OTHERWISE.
6. PIPE INSTALLATIONS LISTED AS "DEEP FILL" HAVE 5' OR MORE OF COVER AND PAYMENT INCLUDES CONSIDERATION FOR ADDITIONAL EXCAVATION WORK REQUIRED AT THESE LOCATIONS.
7. POLYMERIC COATED CORRUGATED STEEL PIPE MAY BE SUBSTITUTED FOR ALUMINUM COATED, TYPE 2 CORRUGATED STEEL PIPE AND WILL BE CONSIDERED AS EQUAL FOR PAYMENT. WHERE POLYMERIC COATED PIPE IS USED, THICKNESS OF COATING SHALL BE 10 MILS INSIDE AND 10 MILS OUTSIDE. POLYMERIC COATED PIPE MAY NOT BE BANDED TO ALUMINUM COATED OR SOLID ALUMINUM PIPE. ALL EXPOSED METAL OR AREAS OF PIPE WHERE POLYMERIC OR ALUMINUM COATING IS DAMAGED SHALL BE PAINTED WITH A ZINC DUST-ZINC OXIDE POWDER CONFORMING TO FEDERAL SPECIFICATION TT-P-641 OR MIL-P-21085 AND A TWO COMPONENT EPOXY PAIN, "SCOTCH CLAD", 2M, PPG OR EQUAL. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CULVERT PAY ITEMS.
8. 18" MINIMUM BANDING OR LARGER WILL BE REQUIRED TO ATTACH MULTIPLE SECTIONS OF PIPE 36-INCHES IN DIAMETER OR LARGER.
9. MASTIC SEALANT REQUIRED ON ALL PIPES LARGER THAN 48" REQUIRING BANDING. THE MASTIC SHALL CONFORM TO AASHTO M 243. PIPES SMALLER THAN 48" SHALL BE SEALED WITH MASTIC IF ANY GAPS BETWEEN PIPES IS GREATER THAN 1.5"

NOTES:
1. RIPRAP CLASS 2, PLACEMENT METHOD A IS REQUIRED. GRADATION SHALL BE AS REQUIRED IN STANDARD SPECIFICATION TABLE 705-1, WHICH IS AS FOLLOWS:

PERCENT OF ROCK EQUAL OR SMALLER BY COUNT, Dx	WEIGHT (POUNDS)	RANGE OF INTERMEDIATE DIMENSIONS (INCHES)
100	270-750	15-21
85	110-270	11-15
50	42-110	8-11
15	10-42	6-8

2. GEOTEXTILES SHALL BE PLACED UNDER RIPRAP IN ALL INSTALLATIONS AND SHALL MEET THE REQUIREMENTS FOR TYPE IV-D OF SECTION 714.01 OF THE SPECIFICATIONS OF FP-14. GEOTEXTILE SHALL BE NONWOVEN. PAYMENT FOR GEOTEXTILES IS INCIDENTAL, INCLUDED IN PAY ITEM 25101-1. IN NARROW CHANNELS, ADJUST ROCK TO FIT STREAMBANKS.

NOTES:
1. CULVERT SPECS

STATION	DIAMETER (INCHES)	SKEW DEGREES	EXISTING TO REMAIN	EXISTING REMOVE & DISPOSE
14+75	24	17	0	0
16+25	24	0	0	0

2. THERE ARE TWO OVER DRAINS PRESENT AT THIS SITE BY STATION 15+25. THESE WILL BE SET ASIDE FOR GOVERNMENT USE.

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PROJECT NAME

FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

DRAWING TITLE

CULVERT & INLET DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-105
DRAWN B.COUPE	
CHECKED F.K.	
PROJECT NO.	SHEET 5 OF 09

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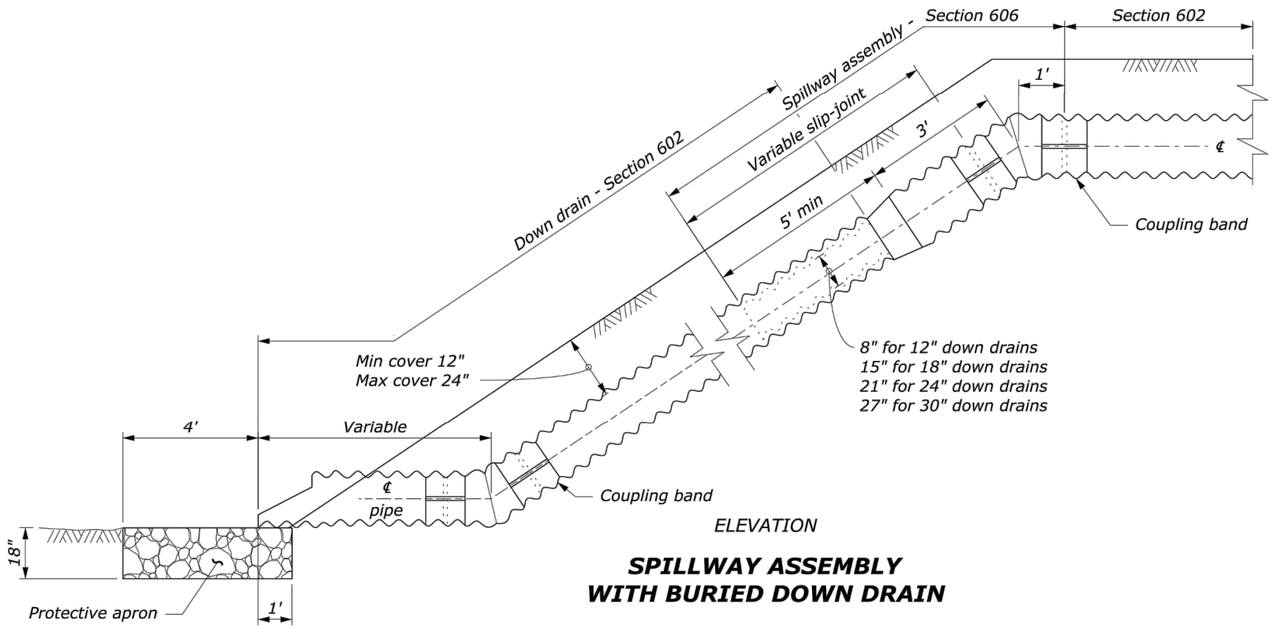
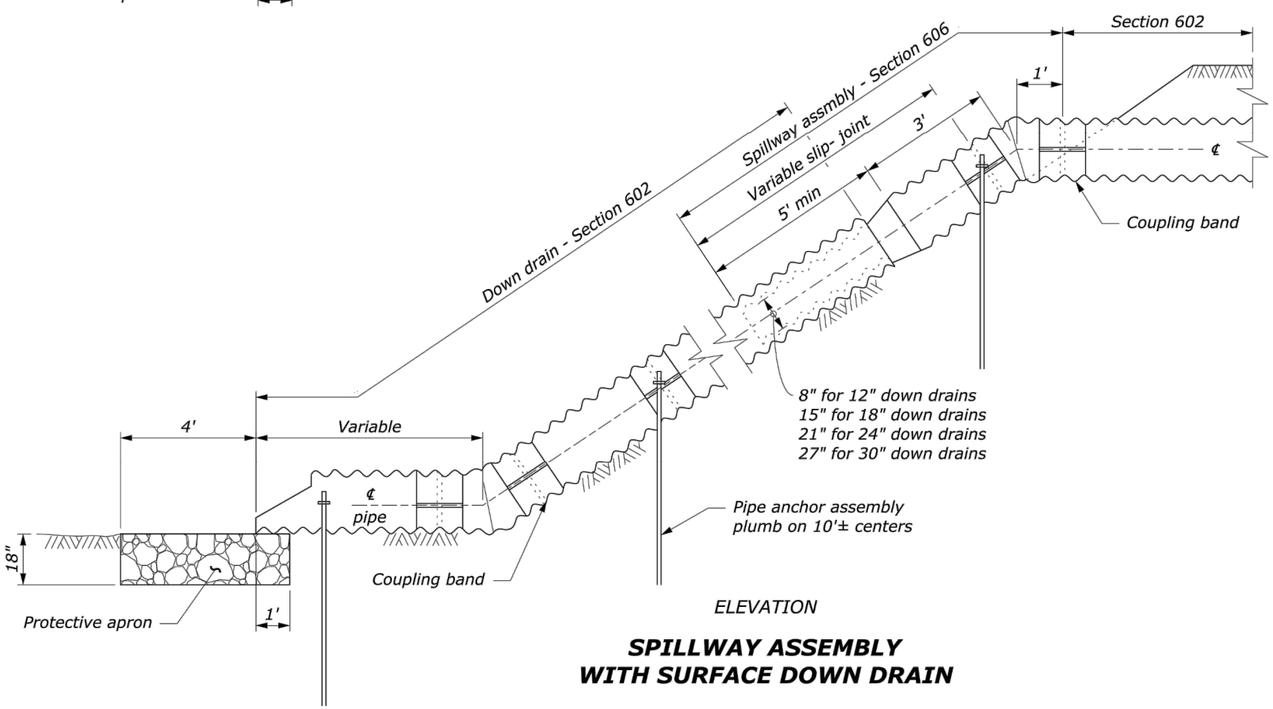
PROJECT	SHEET NUMBER



ELEVATION

SPILLWAY ASSEMBLY WITH BURIED DOWN DRAIN

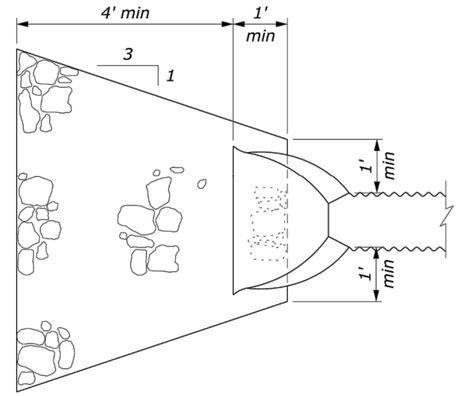


ELEVATION

SPILLWAY ASSEMBLY WITH SURFACE DOWN DRAIN

NOTE:

1. *Fabricate spillway assembly from annular corrugated pipe, or from helically corrugated pipe with factory annular or reformed ends. Use 0.064-inch galvanized steel or 0.060-inch aluminum.*
2. *Make all coupling band connections water tight by placing $^{3}/_{16}$ inch bead of approved caulking under each half of the band before tightening.*
3. *Place class 2 riprap conforming to Section 251 for protective apron.*
4. *Approved alternate designs may be used.*
5. *See Standard W606-14 for Pipe Anchor Assembly Detail.*



PLAN

PROTECTIVE APRON

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION, FHWA
OFFICE OF FEDERAL LANDS HIGHWAY

SPILLWAY ASSEMBLY WITH DOWN DRAIN AND SLIP-JOINT

WFL STANDARD W606-11
SPECIFICATION FP-24. FP-14
APPROVED FOR USE 9/2009

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PROJECT NAME
FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

DRAWING TITLE
DOWNDRAIN DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-106
DRAWN B.COUPE	
CHECKED F.K.	
PROJECT NO.	SHEET 6 OF 09

14 March 2025 11:53 AM c:\pw-work\dms00747\W606-11.dgn [Std W606-11]

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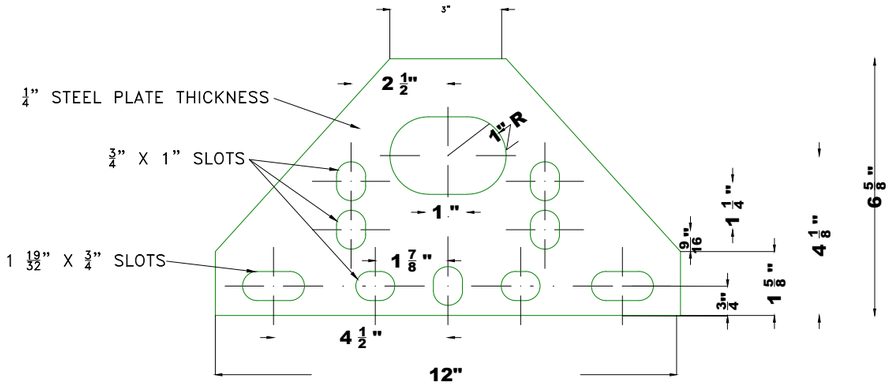
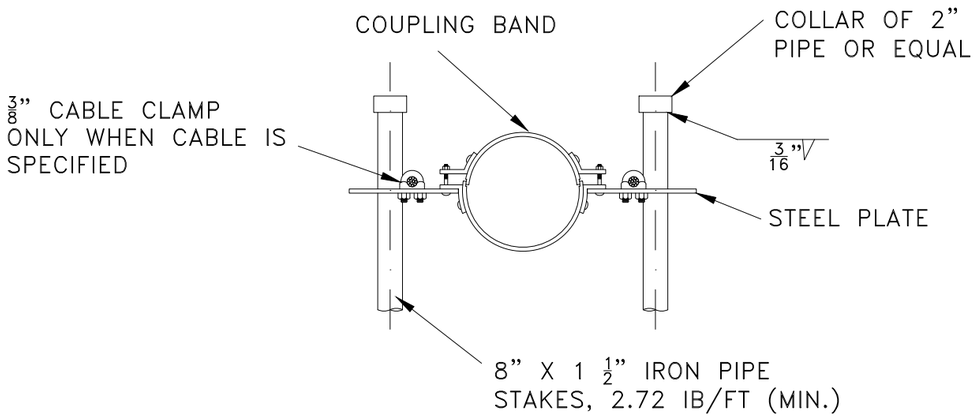


MEASURE LENGTH OF COUPLING BAND PARRALLEL TO THE CENTERLINE OF THE PIPE

STEEL PLATE



ANCHOR ASSEMBLY

NOTE

1. GALVENIZE ALL PIPE STAKES AND HARDWARE AFTER FABRICATION.
2. APPROVED ALTERNATIVE PIPE ANCHOR ASSEMBLIES MAY BE USED.
3. PLACE SLPE ANCHOR ASSEMBLIES ON 20' MAX CENTERS ON SLOPES 20% OR GREATER
4. PLATE MATERIAL TO BE ASTM A36. GALVENIZE AFTER FABRICATION.

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Los Padres National Forest

MONTEREY RANGER DISTRICT

DRAWING TITLE

PIPE ANCHOR ASSEMBLY DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER J.BERRY	DRAWING SHEET NO. C-107
DRAWN J. BERRY	
CHECKED F.K.	
PROJECT NO.	SHEET 07 OF 09

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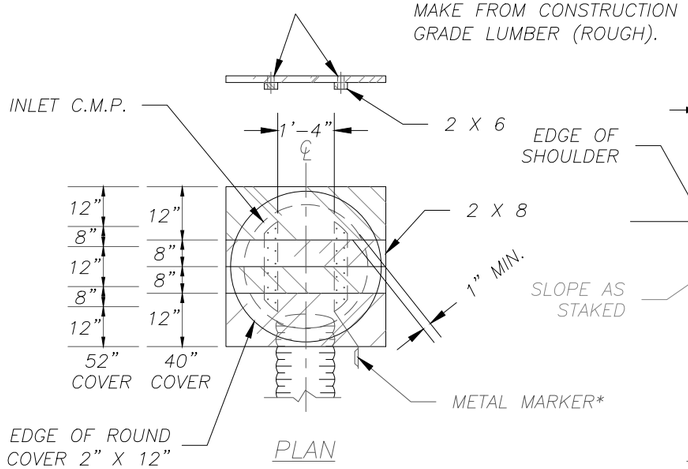
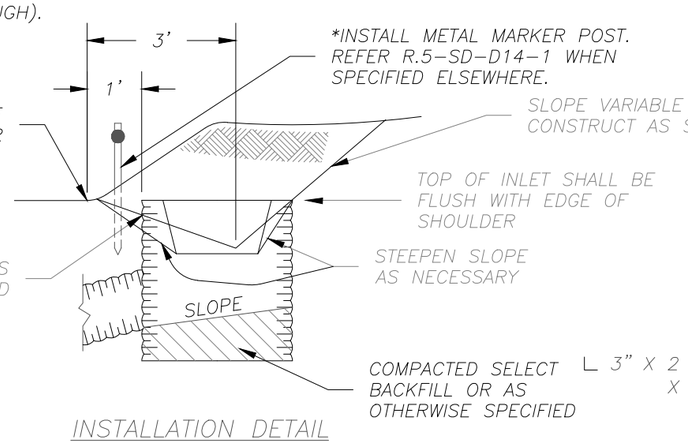
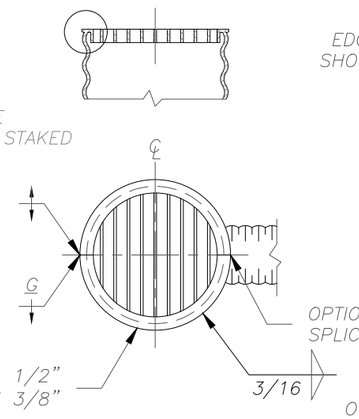


PLAN

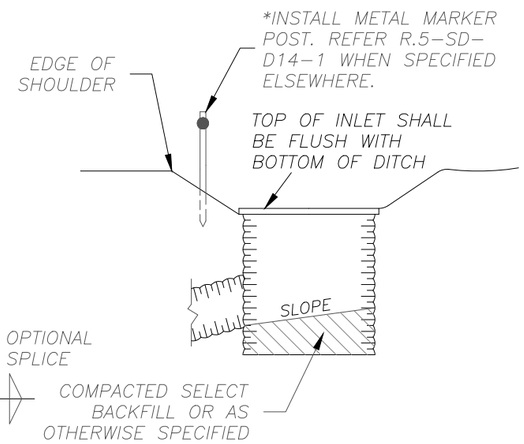


INSTALLATION DETAIL

INLET TYPE A

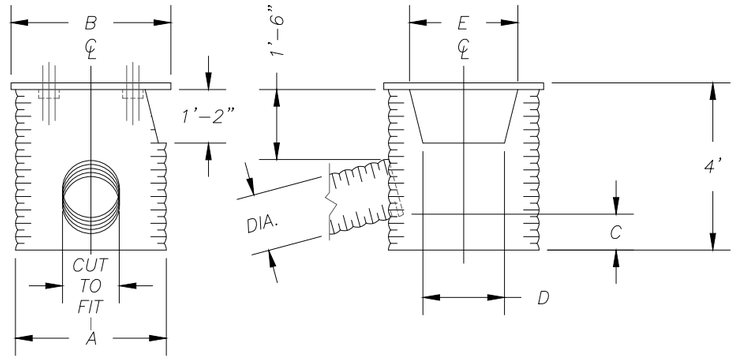


PLAN



INSTALLATION DETAIL

INLET TYPE B



FRONT VIEW

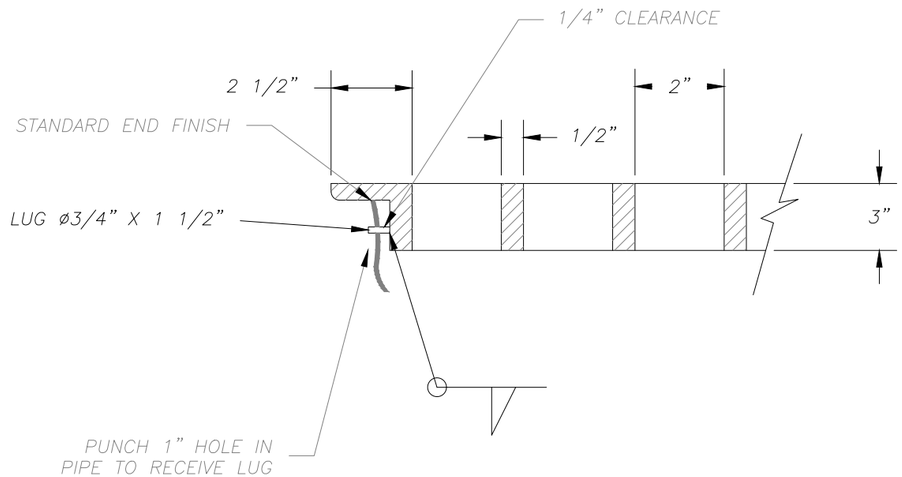
SIDE VIEW

FABRICATION DETAILS

INLET DIMENSION TABLE						
OUTLET PIPE DIA.	INTLET DIA. THICKNESS	A	B	C	D	E
18"	36" – 0.109"	36"	40"	12"	18"	24"

GENERAL NOTES

1) GRATE FOR TYPE "B" INLET ASSEMBLY SHALL BE INSTALLED ON TYPE "A" INLET WHEN SPECIFIED.
2) DIMENSIONS A AND C APPLY TO BOTH TYPES OF INLETS. DIMENSIONS B, D, AND E APPLY TO TYPE "A."
3) OPENINGS MAY BE FIELD CUT. CUT OPENINGS INSIDE OF INLET WHEN INLET IS LOCATED SO THAT WATER APPROACHES FROM TWO DIRECTIONS. TOTAL AREA OF OPENINGS SHALL NOT BE LESS THAN SHOWN.
4) USE ROUND OR SQUARE WOOD COVER WHEN SPECIFIED



DETAIL A

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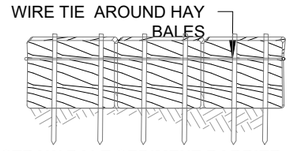
PROJECT NAME
FSR 20S05.3 - Storm Damage

Los Padres National Forest

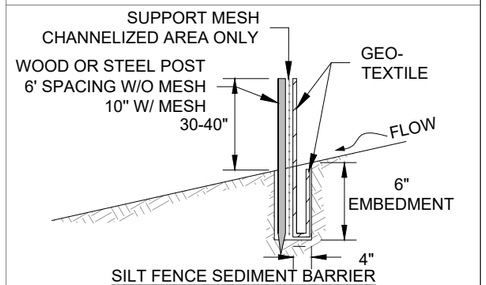
MONTEREY RANGER DISTRICT

DRAWING TITLE
DROP INLET DETAILS

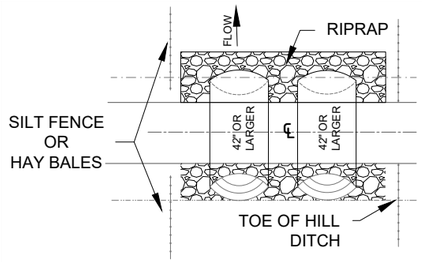
DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-108
DRAWN B.COUPE	
CHECKED F.K.	
PROJECT NO.	SHEET 8 OF 09



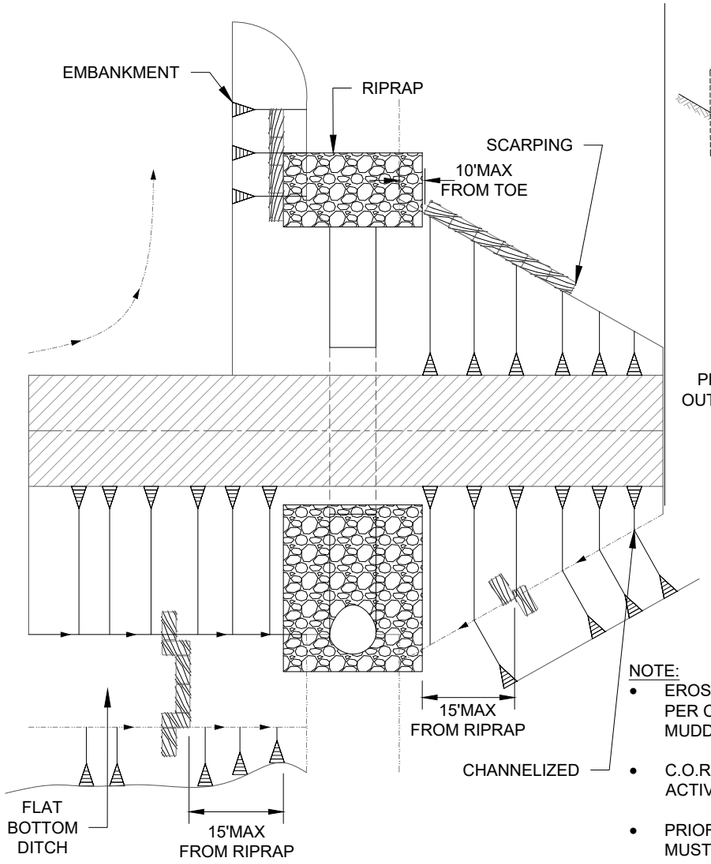
STRAW BALE SEDIMENT BARRIER
NOT TO SCALE

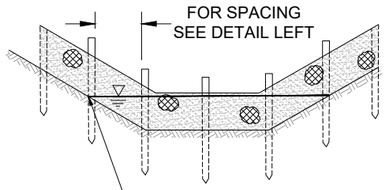


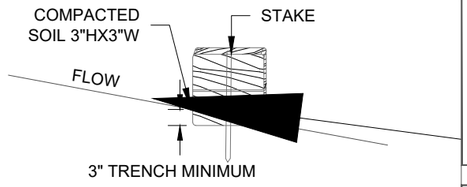
SILT FENCE SEDIMENT BARRIER
NOT TO SCALE



SILT BARRIER BAIL INSTALLATION
NOT TO SCALE



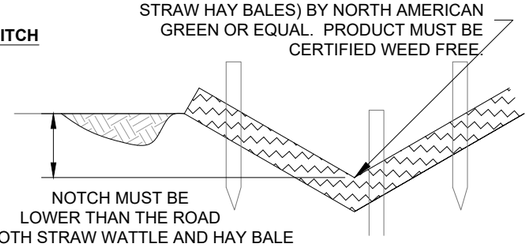




PLACE IN DRAINAGE DITCH OR CULVERT OUTLET DURING CONSTRUCTION ADJACENT TO CREEKS

SILT FENCE INSTALLATION IN DITCH
NOT TO SCALE

OPTION: UTILIZE STRAW WATTLE (IN LIEU OF STRAW HAY BALES) BY NORTH AMERICAN GREEN OR EQUAL. PRODUCT MUST BE CERTIFIED WEED FREE.

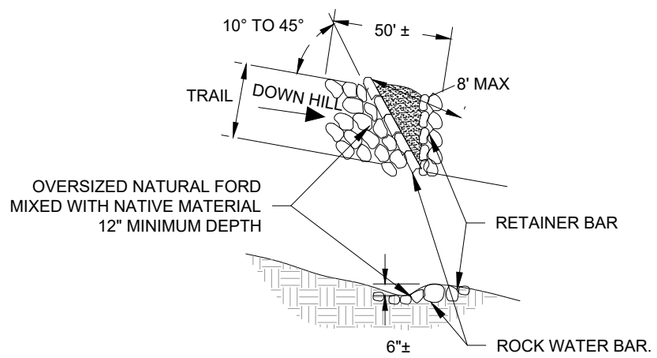


NOTE:

- EROSION CONTROL MEASURES (WHERE APPLICABLE) SHALL BE PLACED PRIOR TO EARTH MOVEMENT PER CALIFORNIA STATE WATER BOARD. CONTRACTOR SHALL DUE PROPER DILIGENCE TO PREVENT THE MUDDYING OF AFFECTED CREEKS.
- C.O.R. OR E.R. MAY REQUIRE ADDITIONAL MEASURES OF SEDIMENT CONTROL DURING CONSTRUCTION ACTIVITIES TO PREVENT THE MUDDYING OF DRAINAGE STRUCTURES.
- PRIOR TO WORK STOPPAGE ANY GRADED DRAINAGE STRUCTURES DISCHARGING INTO A WATERWAY MUST BE SEEDED TO REDUCE SEDIMENTATION.
- PLANS SHOWN ARE EXAMPLES ONLY, CONTRACTORS MAY SUBMIT THEIR PLANS FOR COR/ER APPROVAL.

NOTE:
ON SLOPES GREATER THAN 10% INSTALL REINFORCED ARMORED GRADE DIP. PLACE OVERSIZED ROCK IN AN EXCAVATED TRENCH TO MATCH SURFACE FLUSH WITH THE DRIVING TREAD SURFACE. CONSTRUCT WATER BAR USING RECTANGULAR SHAPED ROCKS WITH MINIMUM SIZE OF 18" IN THE SMALLEST DIMENSION, BUTTED TOGETHER BUT NOT OVERLAPPED. PLACE THE HEAVIEST ROCK AT THE DOWNHILL SIDE AND LAY ROCKS UNTIL TIED INTO THE BANKS. BURY $\frac{2}{3}$ OF EACH ROCK AT A 45° ANGLE. ADD A RETAINER BAR OF ROCKS ANGLED IN THE OPPOSITE DIRECTION FROM WATER BAR NEARLY TOUCHING DOWNHILL EDGE OF THE WATER BAR. FILL THE SPACE BETWEEN THE WATER BAR AND RETAINER WITH A COMPACTED MIXTURE OF NATURAL FORD AND NATIVE MATERIAL.

PAY ITEM 20426-1 ROCK WATER BAR INCLUDES PAYMENT FOR MATERIALS AND LABOR REQUIRED TO EXCAVATE TRENCH AND PLACE ROCKS FOR WATER BAR AND RETAINER BAR. PLACEMENT AND COMPACTION OF 50' LENGTH NATURAL FORD MATERIAL IS INCLUDED IN PAY ITEM 30118.



ROCK WATER BAR DETAIL
NTS

USDA FOREST SERVICE
United States Department of Agriculture
Forest Service
(R05)
Pacific Southwest Region

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
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PROJECT NAME
FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY
RANGER DISTRICT

DRAWING TITLE
EROSION CONTROL DETAILS

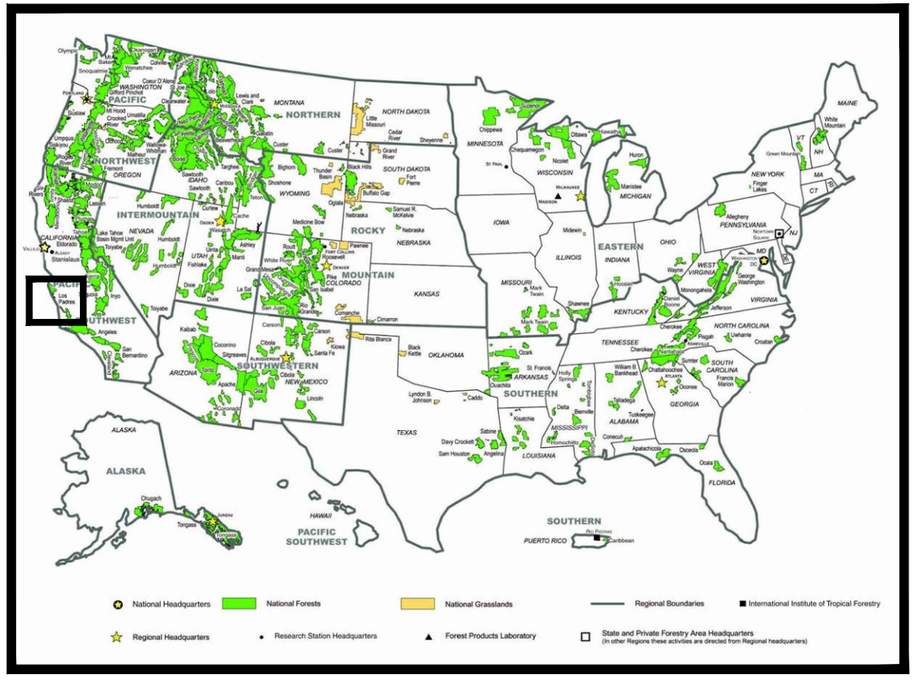
DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-109
DRAWN B.COUPE	
CHECKED F.K.	
PROJECT NO.	SHEET 9 OF 09

12/22/25 17:44 F:\KURAMATA F:\DOCUMENTS\LOS PADRES\PROJECTS 2025\CONE PEAK\LPNF_CONEPEAK_2JBEDITS2DWG.DWG;

United States Department of Agriculture
Forest Service

CALIFORNIA
MONTEREY COUNTY
(R05) SOUTTHWEST PACIFIC REGION
LOS PADRES NATIONAL FOREST
MONTEREY RANGER DISTRICT

FSR 20S05.3 STORM DAMAGE REPAIR
SITES 1,3-7



FOREST LOCATION MAP

PROJECT LOCATION MAP

TRAVEL DIRECTIONS:

FROM BRADLEY, CA HEAD NORTH ON TO US HWY 101 NORTH. GET OFF AT EXIT 252 JOLON ROAD TOWARDS FORT HUNTER-LIGGETT. STAY ON JOLON ROAD FOR 21.3 MILES, TURN LEFT ON TO MISSION ROAD AND STAY ON THIS ROADWAY FOR 4 MILES. TAKE A SHARP LEFT TO STAY ON MISSION ROAD, THIS TURNS INTO NACIMIENTO - FERGUSSON ROAD. STAY ON NACIMIENTO - FERGUSSON ROAD FOR 17 MILES. TURN RIGHT ON TO FSR 20S05.3 (CONE PEAK ROAD) AND CONTINUE FOR 3 MILES

INDEX OF SHEETS

SHEET	SHEET TITLE	DATE
G-101	COVERSHEET	01/11/25
C-102	SITE 1 SITE PLAN	01/11/25
C-103	SITE 3 SITE PLAN	01/11/25
C-104	SITE 4 SITE PLAN	01/11/25
C-105	SITE 5 & 6 SITE PLAN	01/11/25
C-106	SITE 7 SITE PLAN	01/11/25
C-107	SITE 1 STRUCTURE ALIGNMENT DETAILS	01/11/25
C-108	SITE 3 STRUCTURE ALIGNMENT DETAILS	01/11/25
C-109	SITE 4 STRUCTURE ALIGNMENT DETAILS	01/11/25
C-110	SITE 5 STRUCTURE ALIGNMENT DETAILS	01/11/25
C-111	SITE 6 STRUCTURE ALIGNMENT DETAILS	01/11/25
C-112	SITE 7 STRUCTURE ALIGNMENT DETAILS	01/11/25
C-113	ROLLING DIP & TOE DRAIN DETAILS	01/11/25
C-114	CULVERT & INLET DETAILS	01/11/25
C-115	ROADWAY DETAILS	01/11/25
C-116	EROSION CONTROL DETAILS	01/11/25
C-117	DOWN DRAIN DETAILS	01/11/25
C-18	PIPE ANCHOR ASSEMBLY DETAILS	01/11/25
C-19	DROP INLET DETAILS	1/11/2025

RECOMMENDED BY:

FOREST ENGINEER _____ DATE _____

DISTRICT RANGER _____ DATE _____

FOREST SUPERVISOR _____ DATE _____

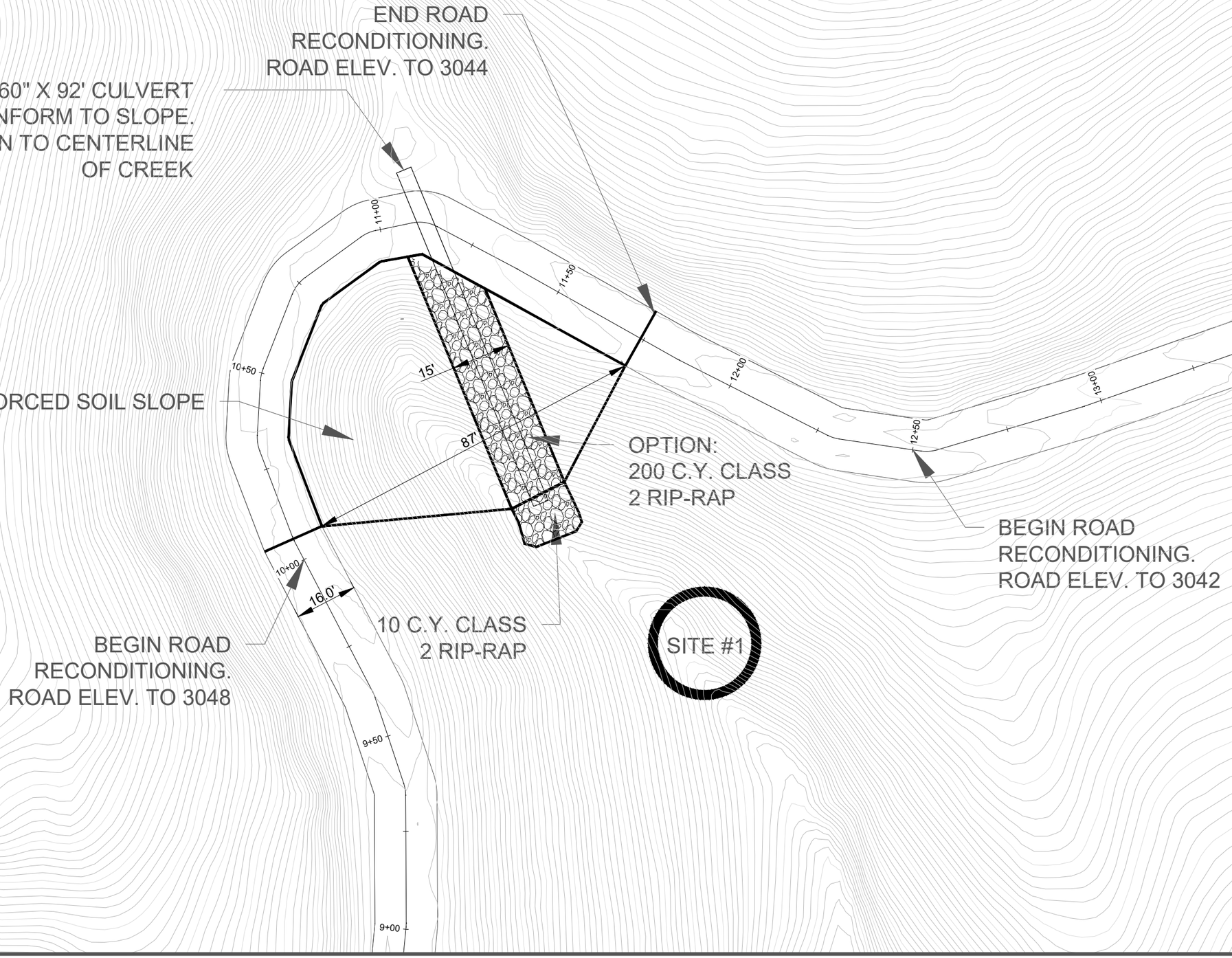
RO FACILITIES PROGRAM MANAGER _____ DATE _____

APPROVED:

DIRECTOR OF ENGINEERING _____ DATE _____

12/22/25 17:44 FKURAMATA F:\DOCUMENTS\LOS PADRES\PROJECTS 2025\CONE PEAK\LPNF_CONEPEAK_2_RBEDITS20WG.DWG;

No known control points. Actual locations shall be located in the field and staked by Contractor. Staking to be approved by COR prior to commencement of work.



United States Department of Agriculture
Forest Service

(R05)
Pacific Southwest Region

STAMPS, LOGOS, AND SEALS

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PROJECT NAME

FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

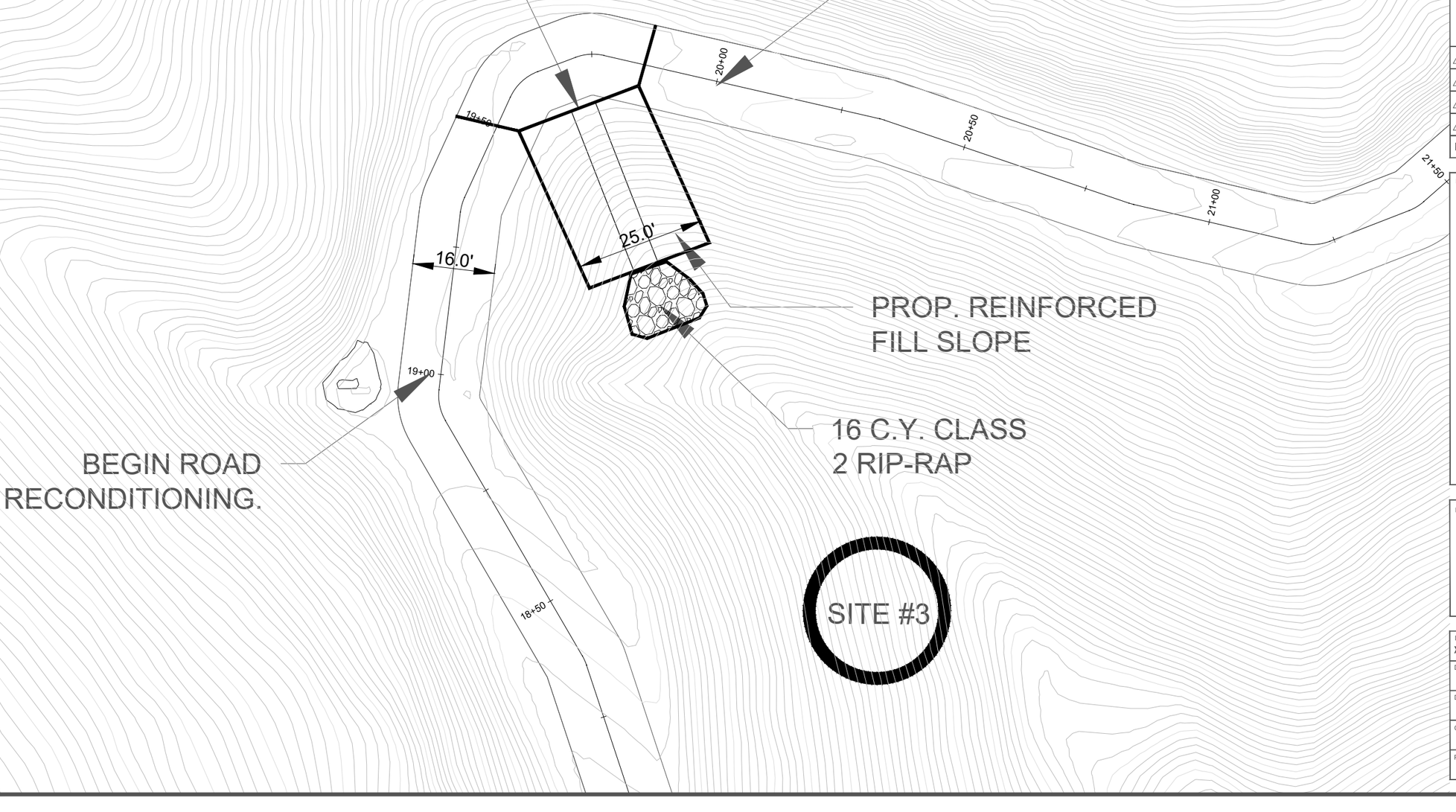
DRAWING TITLE

SITE 1 SITE PLAN

DATE: XX/XX/XXXX	ARCHIVE NO.
DESIGNER: B.COUPE	DRAWING SHEET NO. C-102
DRAWN: B.COUPE	
CHECKED: F.K.	
PROJECT NO.	SHEET 2 OF 19

12/22/25 17:44 FKURAMATA F:\DOCUMENTS\LOS PADRES\PROJECTS 2025\CONE PEAK\LPNF_CONEPEAK_2JBEDITS2DWG.DWG;

No known control points. Actual locations shall be located in the field and staked by Contractor. Staking to be approved by COR prior to commencement of work.



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United States Department of Agriculture
Forest Service

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Pacific Southwest Region

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PROJECT NAME

FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

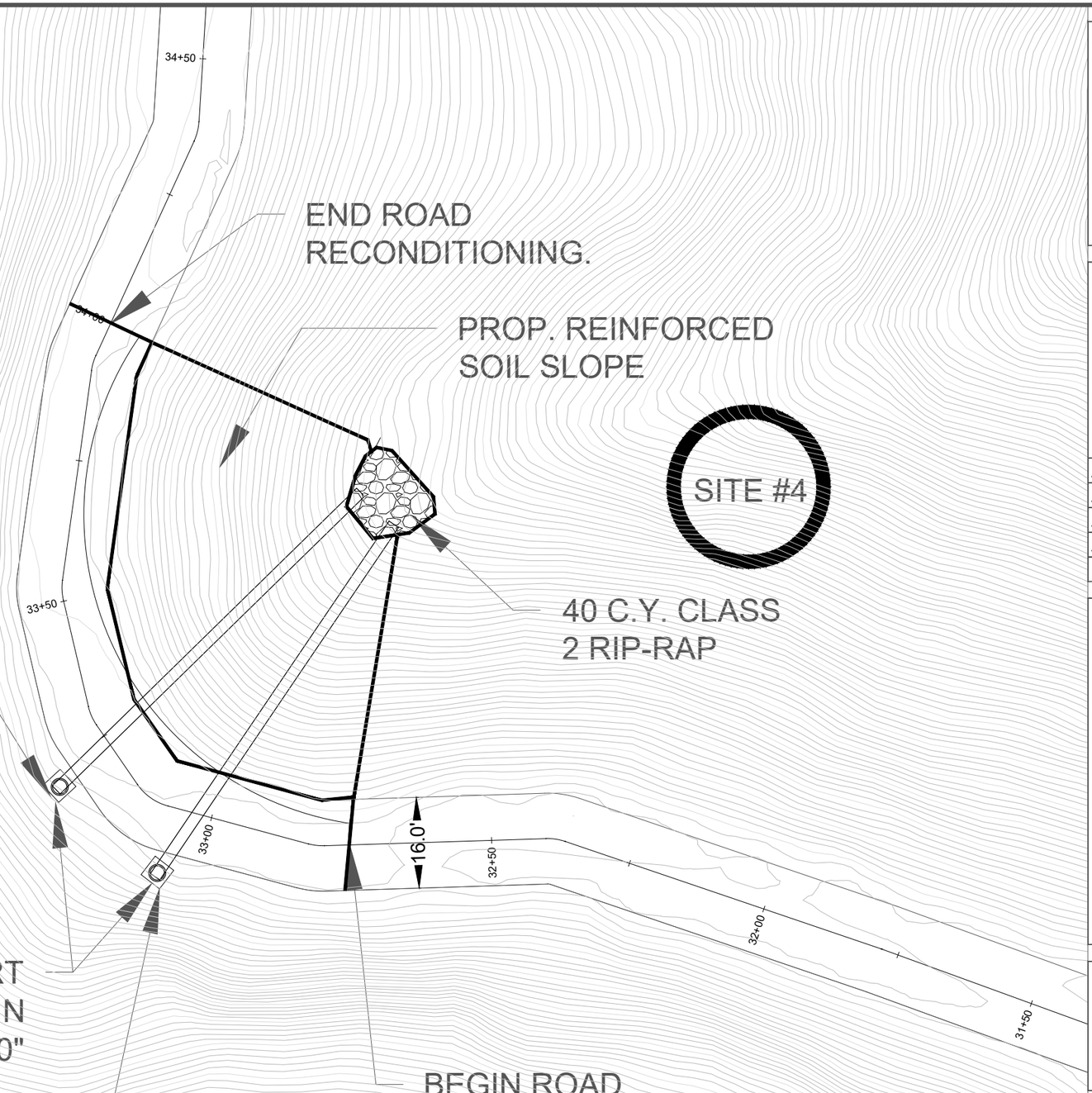
DRAWING TITLE

SITE 3 SITE PLAN

DATE XX/XX/XXXX	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-103
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 3 OF 19

12/22/25 17:44 FKURAMATA F:\DOCUMENTS\LOS PADRES\PROJECTS 2025\CONE PEAK\LPNF_CONEPEAK_2JBEDITS2DWG.DWG;

No known control points. Actual locations shall be located in the field and staked by Contractor. Staking to be approved by COR prior to commencement of work.



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United States Department of Agriculture
Forest Service

(R05)
Pacific Southwest Region

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PROJECT NAME

FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

DRAWING TITLE

SITE 4 SITE PLAN

DATE: XX/XX/XXXX	ARCHIVE NO.
DESIGNER: B.COUPE	DRAWING SHEET NO. C-104
DRAWN: B.COUPE	
CHECKED: F.K.	
PROJECT NO.	SHEET 4 OF 19

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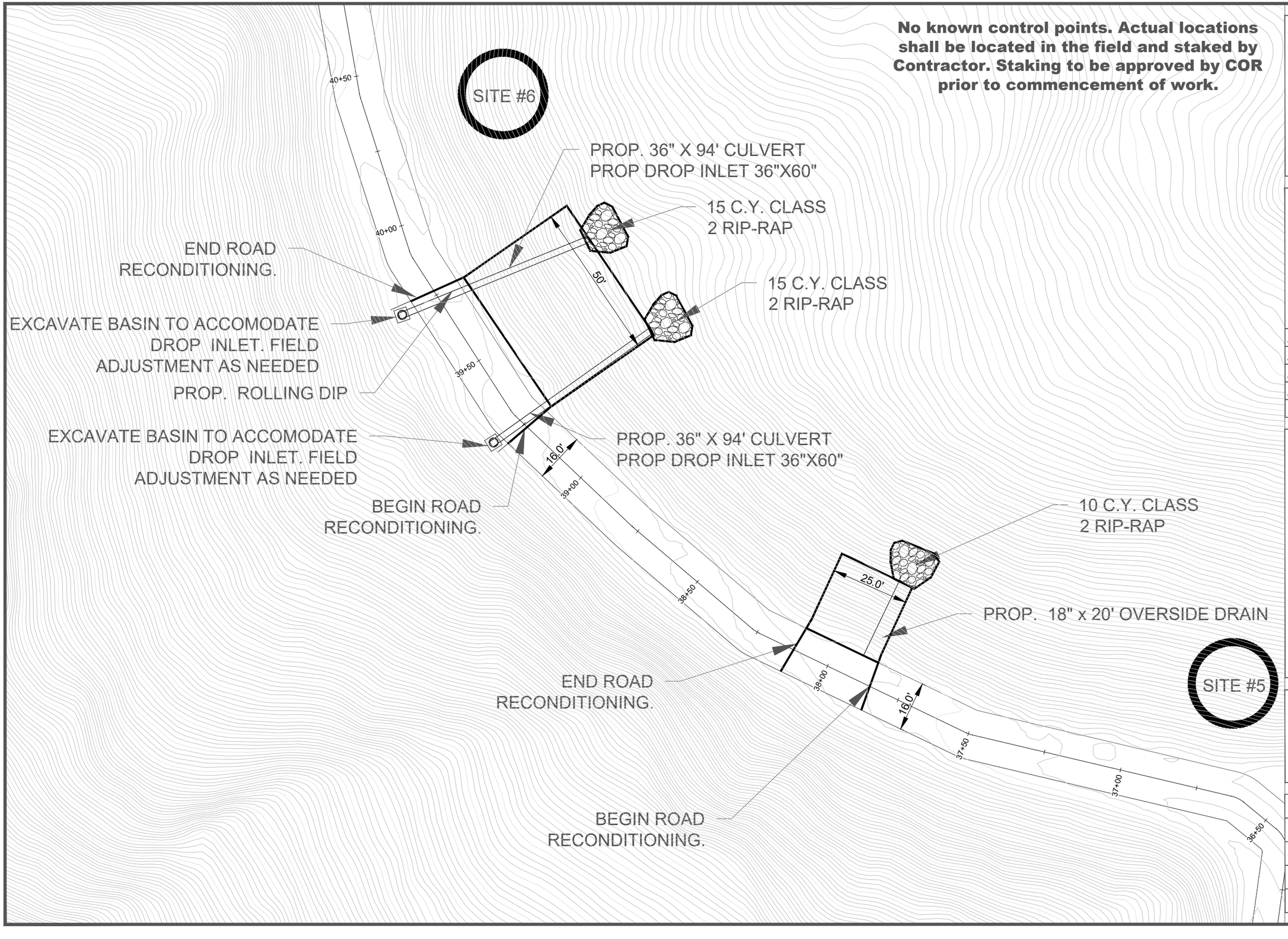
No known control points. Actual locations shall be located in the field and staked by Contractor. Staking to be approved by COR prior to commencement of work.



United States Department of Agriculture
Forest Service

(R05)
Pacific Southwest Region

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FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

DRAWING TITLE

SITE 5 & 6 SITE PLAN

DATE: XX/XX/XXXX	ARCHIVE NO.
DESIGNER: B.COUPE	DRAWING SHEET NO. C-105
DRAWN: B.COUPE	
CHECKED: X.XXX	
PROJECT NO.	SHEET 5 OF 19

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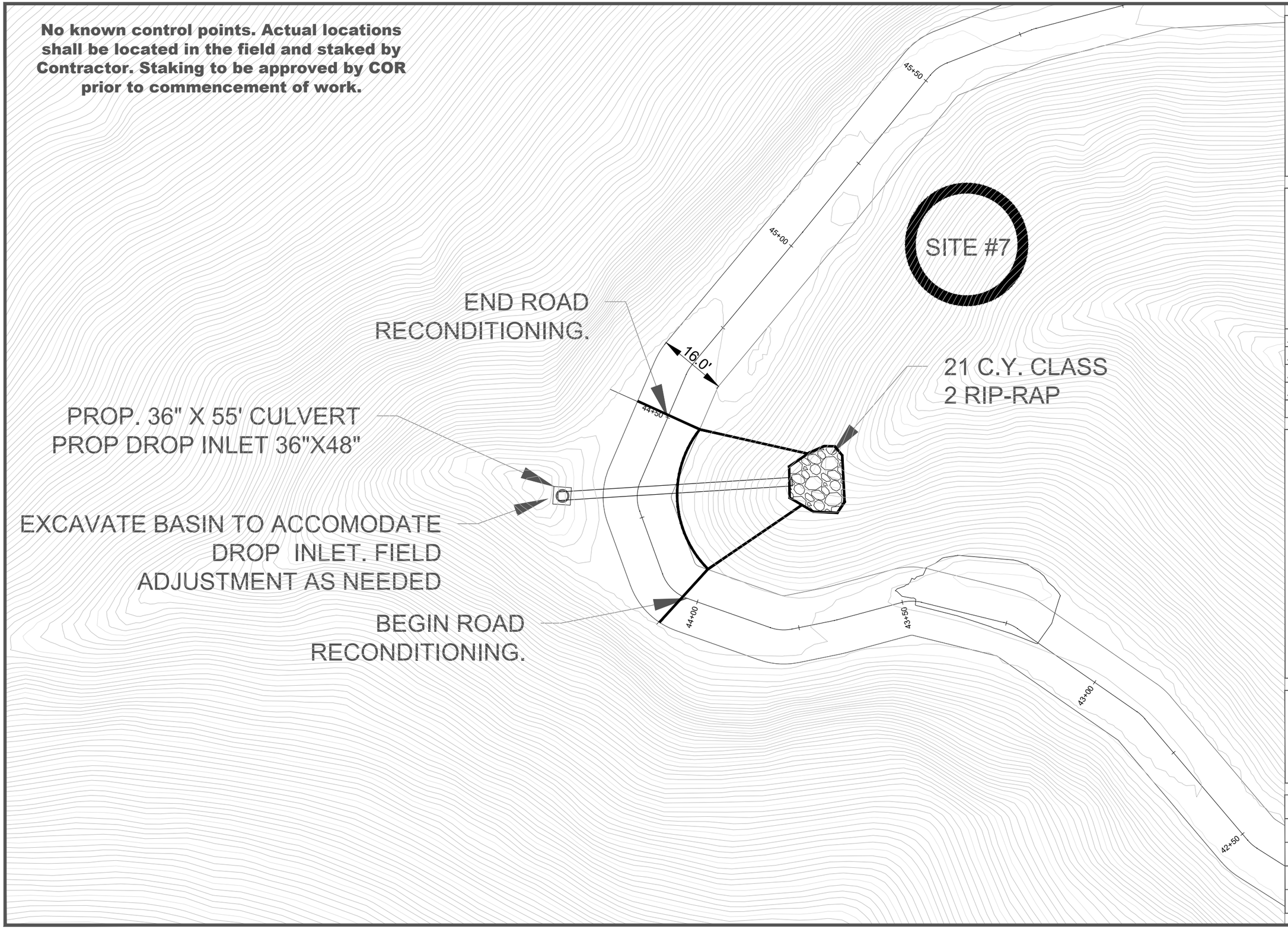
No known control points. Actual locations shall be located in the field and staked by Contractor. Staking to be approved by COR prior to commencement of work.



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Forest Service

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Pacific Southwest Region

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FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RANGER DISTRICT

DRAWING TITLE

SITE 7
SITE PLAN

DATE: XX/XX/XXXX	ARCHIVE NO.
DESIGNER: B.COUPE	DRAWING SHEET NO. C-106
DRAWN: B.COUPE	
CHECKED: X.XXX	
PROJECT NO.	SHEET 6 OF 19

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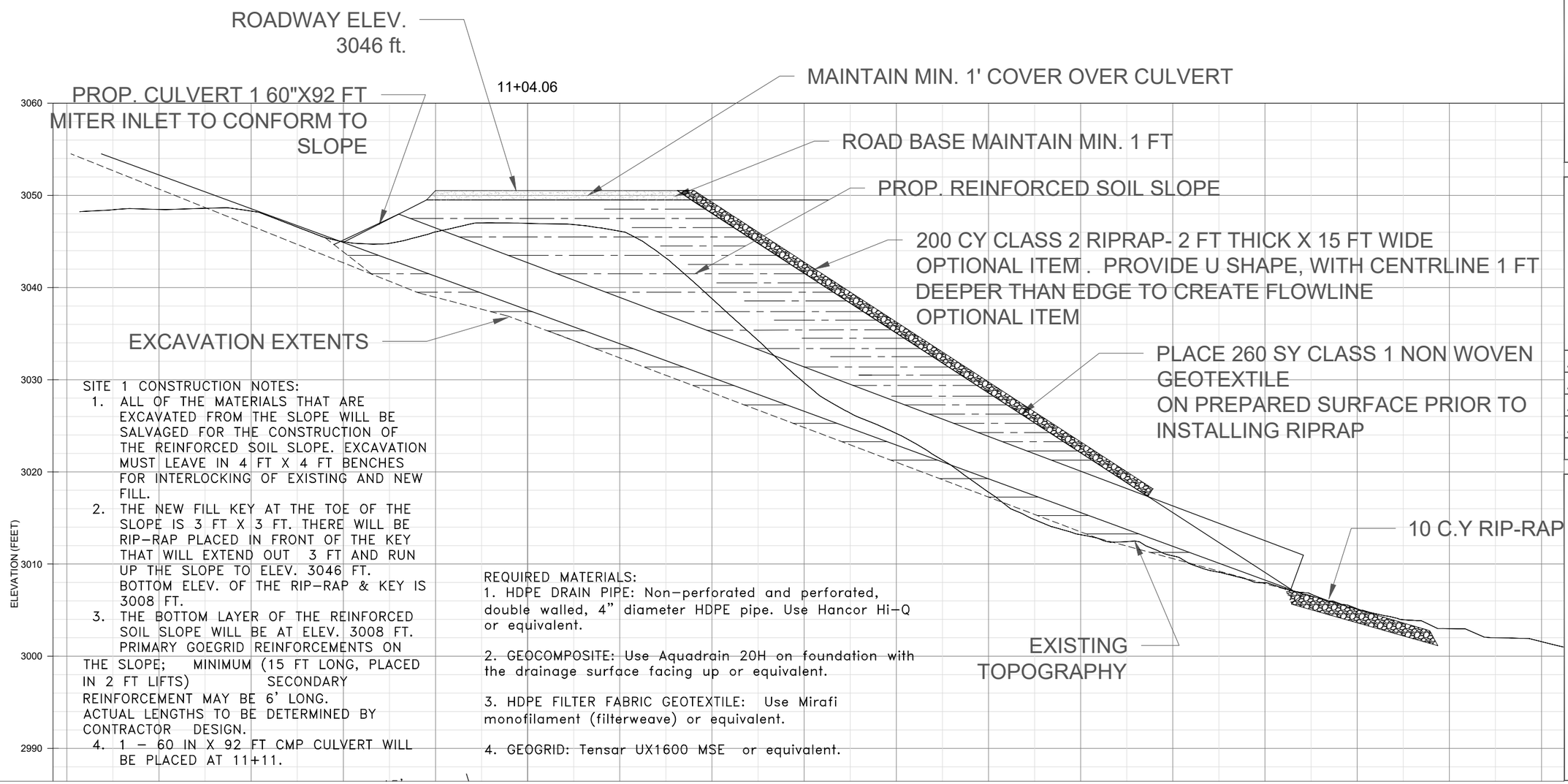


SITE 1 CONSTRUCTION NOTES:

1. ALL OF THE MATERIALS THAT ARE EXCAVATED FROM THE SLOPE WILL BE SALVAGED FOR THE CONSTRUCTION OF THE REINFORCED SOIL SLOPE. EXCAVATION MUST LEAVE IN 4 FT X 4 FT BENCHES FOR INTERLOCKING OF EXISTING AND NEW FILL.
2. THE NEW FILL KEY AT THE TOE OF THE SLOPE IS 3 FT X 3 FT. THERE WILL BE RIP-RAP PLACED IN FRONT OF THE KEY THAT WILL EXTEND OUT 3 FT AND RUN UP THE SLOPE TO ELEV. 3046 FT. BOTTOM ELEV. OF THE RIP-RAP & KEY IS 3008 FT.
3. THE BOTTOM LAYER OF THE REINFORCED SOIL SLOPE WILL BE AT ELEV. 3008 FT. PRIMARY GOEGRID REINFORCEMENTS ON THE SLOPE; MINIMUM (15 FT LONG, PLACED IN 2 FT LIFTS) SECONDARY REINFORCEMENT MAY BE 6' LONG. ACTUAL LENGTHS TO BE DETERMINED BY CONTRACTOR DESIGN.
4. 1 – 60 IN X 92 FT CMP CULVERT WILL BE PLACED AT 11+11.

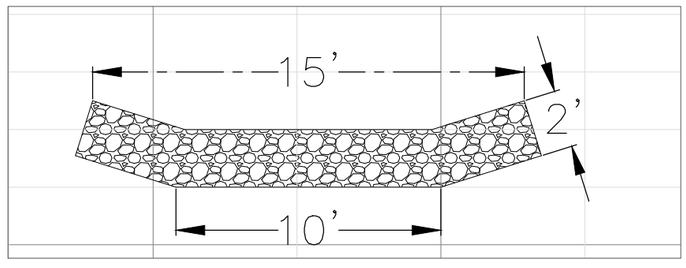
REQUIRED MATERIALS:

1. HDPE DRAIN PIPE: Non-perforated and perforated, double walled, 4" diameter HDPE pipe. Use Hancor Hi-Q or equivalent.

2. GEOCOMPOSITE: Use Aquadrain 20H on foundation with the drainage surface facing up or equivalent.

3. HDPE FILTER FABRIC GEOTEXTILE: Use Mirafi monofilament (filterweave) or equivalent.

4. GEOGRID: Tensar UX1600 MSE or equivalent.



CROSS SECTION OF OVERTOPPING REVETMENT

United States Department of Agriculture
Forest Service

(R05)
Pacific Southwest Region

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PROJECT NAME

FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RAY
RANGER DISTRICT

DRAWING TITLE

SITE 1 STRUCTURES ALIGNMENT PROFILE

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-107
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 7 OF 19

12/22/25 17:44 FKURAMATA F:\DOCUMENTS\LOS PADRES\PROJECTS 2025\CONE PEAK\LPNF_CONEPEAK_2JBEDITS2DWG.DWG;

REQUIRED MATERIALS:

1. HDPE DRAIN PIPE: Non-perforated and perforated, double walled, 4" diameter HDPE pipe. Use Hancor Hi-Q or equivalent.

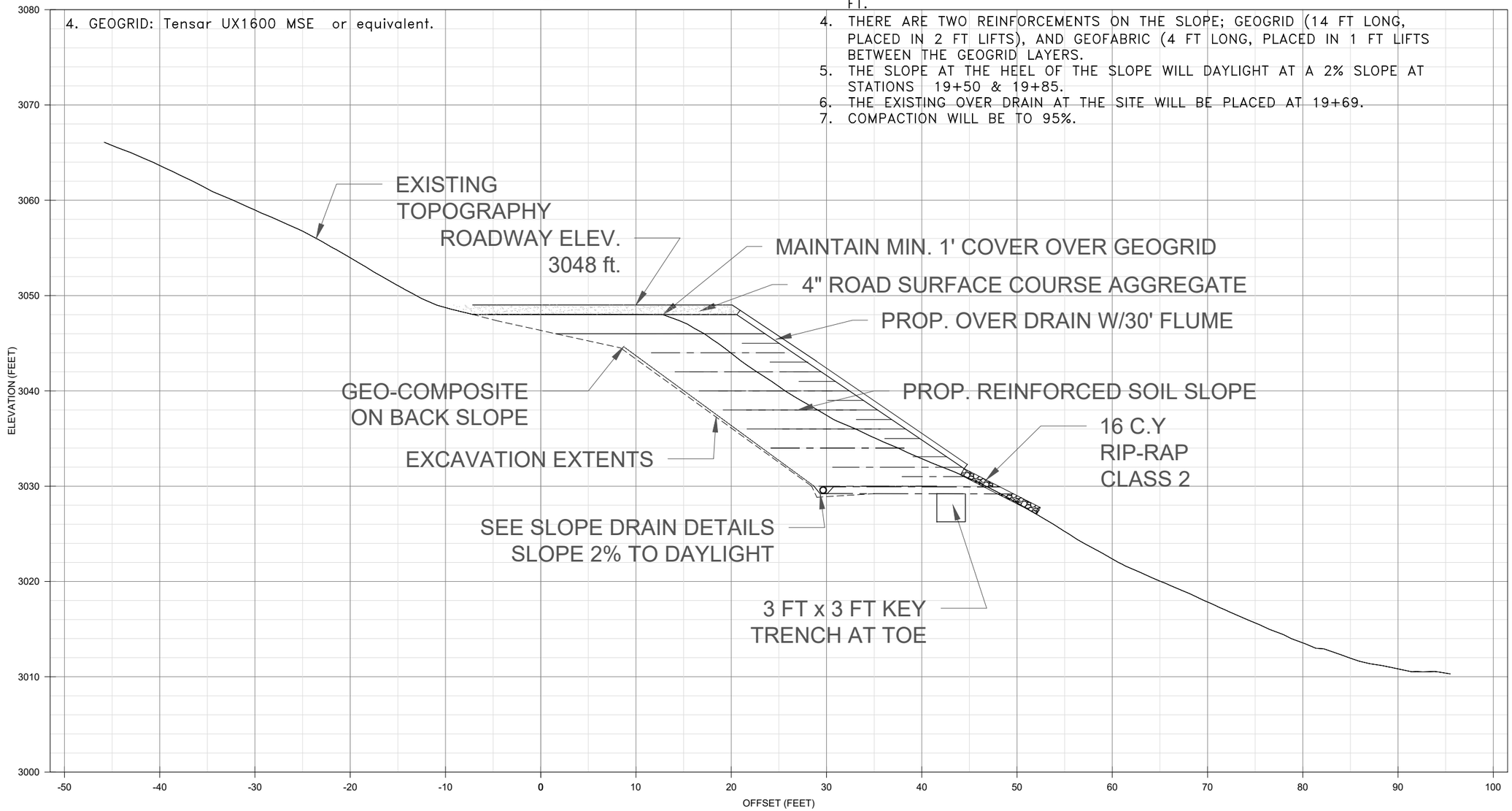
2. GEOCOMPOSITE: Use Aquadrain 20H on foundation with the drainage surface facing up or equivalent.

3. HDPE FILTER FABRIC GEOTEXTILE: Use Mirafi monofilament (filterweave) or equivalent.

4. GEOGRID: Tensar UX1600 MSE or equivalent.

SITE 3 CONSTRUCTION NOTES:

1. ALL OFF THE MATERIALS THAT ARE EXCAVATED FROM THE SLOPE WILL BE SALVAGED FOR THE CONSTRUCTION OF THE REINFORCED SOIL SLOPE. EXCAVATION MUST LEAVE IN 3 FT X 3 FT BENCHES FOR INTERLOCKING OF EXISTING AND NEW FILL.
2. THE NEW FILL KEY AT THE TOE OF THE SLOPE IS 3 FT X 3 FT. THERE WILL BE RIP-RAP PLACED IN FRONT OF THE KEY THAT WILL EXTEND OUT 4 FT AND GO UNTIL THE END OF THE OVER DRAIN. THE BOTTOM ELEV. OF THE RIP-RAP & KEY IS 3027 FT.
3. THE BOTTOM LAYER OF THE REINFORCED SOIL SLOPE WILL BE AT ELEV. 3030 FT.
4. THERE ARE TWO REINFORCEMENTS ON THE SLOPE; GEOGRID (14 FT LONG, PLACED IN 2 FT LIFTS), AND GEOFABRIC (4 FT LONG, PLACED IN 1 FT LIFTS BETWEEN THE GEOGRID LAYERS.
5. THE SLOPE AT THE HEEL OF THE SLOPE WILL DAYLIGHT AT A 2% SLOPE AT STATIONS 19+50 & 19+85.
6. THE EXISTING OVER DRAIN AT THE SITE WILL BE PLACED AT 19+69.
7. COMPACTION WILL BE TO 95%.



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FSR 20S05.3 - Storm Damage

Los Padres National Forest

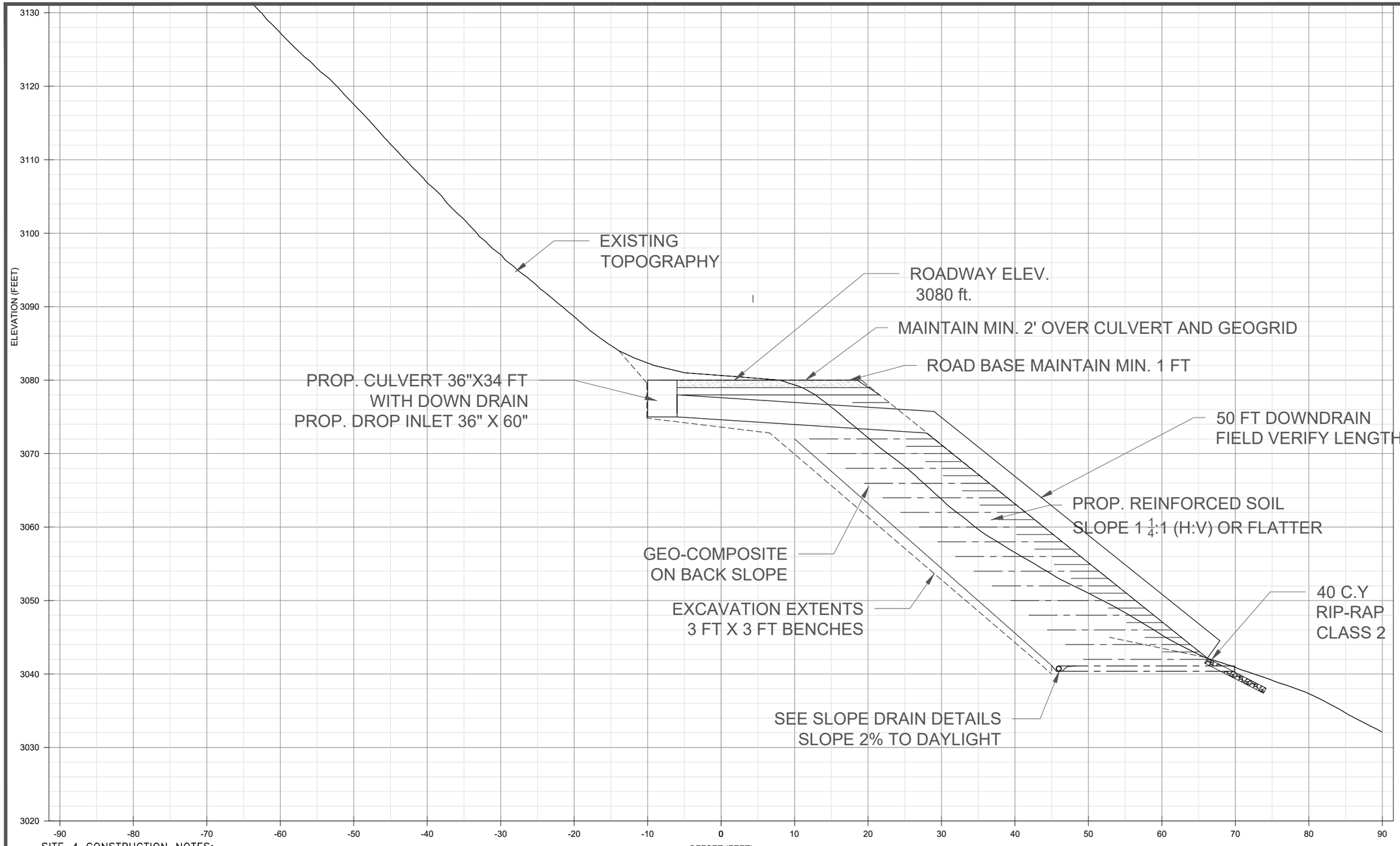
MONTEREY RAY RANGER DISTRICT

DRAWING TITLE

SITE 3 STRUCTURES ALIGNMENT PROFILE

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-108
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 8 OF 19

12/22/25 17:44 F:\DURAMATA F:\DOCUMENTS\LOS PADRES\PROJECTS 2025\CONE PEAK\LPNF_CONEPEAK_2JBEDITS2DWG.DWG;



SITE 4 CONSTRUCTION NOTES:

1. ALL OFF THE MATERIALS THAT ARE EXCAVATED FROM THE SLOPE WILL BE SALVAGED FOR THE CONSTRUCTION OF THE REINFORCED SOIL SLOPE. EXCAVATION MUST LEAVE IN 3 FT X 3 FT BENCHES FOR INTERLOCKING OF EXISTING AND NEW FILL.
2. THE NEW FILL KEY AT THE TOE OF THE SLOPE IS 3 FT X 3 FT. THERE WILL BE RIP–RAP PLACED IN FRONT OF THE KEY THAT WILL EXTEND OUT 3 FT. BOTTOM ELEV. OF THE RIP–RAP & KEY IS 3038 FT.
3. THE BOTTOM LAYER OF THE REINFORCED SOIL SLOPE WILL BE AT ELEV. 3040 FT.
4. THERE ARE TWO REINFORCEMENTS ON THE SLOPE; GEOGRID (17 FT LONG, PLACED IN 2 FT LIFTS), AND GEOFABRIC (5 FT LONG, PLACED IN 1 FT LIFTS BETWEEN THE GEOGRID LAYERS.
5. THE SLOPE AT THE HEEL OF THE SLOPE WILL DAYLIGHT AT A 2% SLOPE AT STATIONS 32+75, 33+25, 34+00. LENGTH OF PIPE NEEDED IS AT EACH STATION IS 22 FT.
6. 2 – 36 IN X 84 FT CMP CULVERTS WILL BE PLACED AT 33+00 & 33+28. THE DROP INLET SIZE IS 36 IN X 60 IN.
7. COMPACTION WILL BE TO 95% OF T–180.

REQUIRED MATERIALS:

1. HDPE DRAIN PIPE: Non–perforated and perforated, double walled, 4" diameter HDPE pipe. Use Hancor Hi–Q or equivalent.

2. GEOCOMPOSITE: Use Aquadrain 20H on foundation with the drainage surface facing up or equivalent.

3. HDPE FILTER FABRIC GEOTEXTILE: Use Mirafi monofilament (filterweave) or equivalent.

4. GEOGRID: Tensar UX1600 MSE or equivalent.

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United States Department of Agriculture
Forest Service

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Pacific Southwest Region

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PROJECT NAME

FSR 20S05.3 - Storm Damage

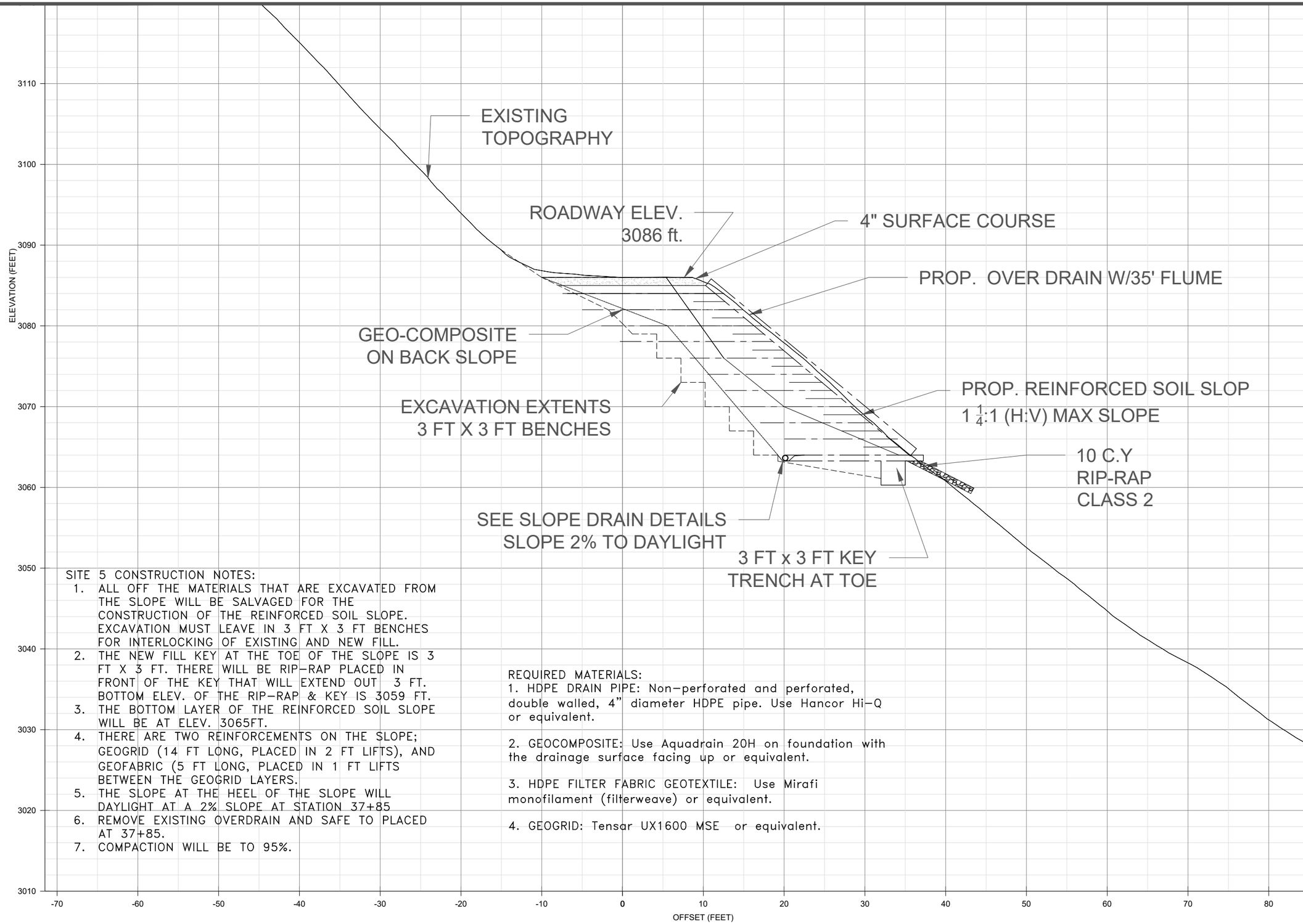
Los Padres National Forest

MONTEREY RAY
RANGER DISTRICT

DRAWING TITLE

SITE 4 STRUCTURES ALIGNMENT PROFILE

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-109
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 9 OF 19



SITE 5 CONSTRUCTION NOTES:

1. ALL OFF THE MATERIALS THAT ARE EXCAVATED FROM THE SLOPE WILL BE SALVAGED FOR THE CONSTRUCTION OF THE REINFORCED SOIL SLOPE. EXCAVATION MUST LEAVE IN 3 FT X 3 FT BENCHES FOR INTERLOCKING OF EXISTING AND NEW FILL.
2. THE NEW FILL KEY AT THE TOE OF THE SLOPE IS 3 FT X 3 FT. THERE WILL BE RIP-RAP PLACED IN FRONT OF THE KEY THAT WILL EXTEND OUT 3 FT. BOTTOM ELEV. OF THE RIP-RAP & KEY IS 3059 FT.
3. THE BOTTOM LAYER OF THE REINFORCED SOIL SLOPE WILL BE AT ELEV. 3065FT.
4. THERE ARE TWO REINFORCEMENTS ON THE SLOPE; GEOGRID (14 FT LONG, PLACED IN 2 FT LIFTS), AND GEOFABRIC (5 FT LONG, PLACED IN 1 FT LIFTS BETWEEN THE GEOGRID LAYERS.
5. THE SLOPE AT THE HEEL OF THE SLOPE WILL DAYLIGHT AT A 2% SLOPE AT STATION 37+85
6. REMOVE EXISTING OVERDRAIN AND SAFE TO PLACED AT 37+85.
7. COMPACTION WILL BE TO 95%.

REQUIRED MATERIALS:

1. HDPE DRAIN PIPE: Non-perforated and perforated, double walled, 4" diameter HDPE pipe. Use Hancor Hi-Q or equivalent.

2. GEOCOMPOSITE: Use Aquadrain 20H on foundation with the drainage surface facing up or equivalent.

3. HDPE FILTER FABRIC GEOTEXTILE: Use Mirafi monofilament (filterweave) or equivalent.

4. GEOGRID: Tensar UX1600 MSE or equivalent.

United States Department of Agriculture
Forest Service

(R05)
Pacific Southwest Region

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
4		
3		
2		
1		

PROJECT NAME

FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RAY RANGER DISTRICT

DRAWING TITLE

SITE 5 STRUCTURE ALIGNMENT PROFILE

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-110
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 10 OF 19

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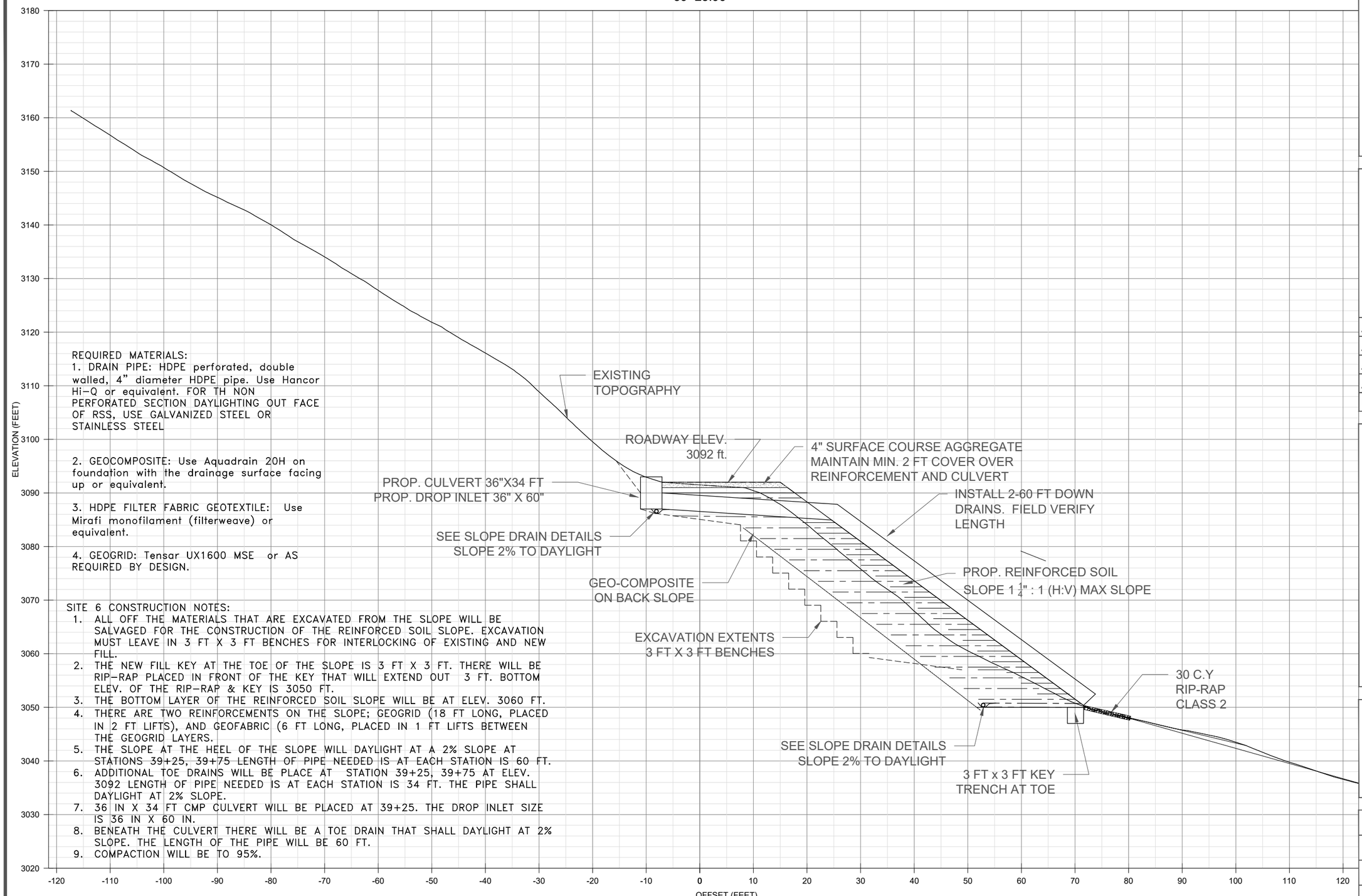
39+25.96



REQUIRED MATERIALS:

1. DRAIN PIPE: HDPE perforated, double walled, 4" diameter HDPE pipe. Use Hancor Hi-Q or equivalent. FOR TH NON PERFORATED SECTION DAYLIGHTING OUT FACE OF RSS, USE GALVANIZED STEEL OR STAINLESS STEEL

2. GEOCOMPOSITE: Use Aquadrain 20H on foundation with the drainage surface facing up or equivalent.

3. HDPE FILTER FABRIC GEOTEXTILE: Use Mirafi monofilament (filterweave) or equivalent.

4. GEOGRID: Tensar UX1600 MSE or AS REQUIRED BY DESIGN.

SITE 6 CONSTRUCTION NOTES:

1. ALL OFF THE MATERIALS THAT ARE EXCAVATED FROM THE SLOPE WILL BE SALVAGED FOR THE CONSTRUCTION OF THE REINFORCED SOIL SLOPE. EXCAVATION MUST LEAVE IN 3 FT X 3 FT BENCHES FOR INTERLOCKING OF EXISTING AND NEW FILL.
2. THE NEW FILL KEY AT THE TOE OF THE SLOPE IS 3 FT X 3 FT. THERE WILL BE RIP-RAP PLACED IN FRONT OF THE KEY THAT WILL EXTEND OUT 3 FT. BOTTOM ELEV. OF THE RIP-RAP & KEY IS 3050 FT.
3. THE BOTTOM LAYER OF THE REINFORCED SOIL SLOPE WILL BE AT ELEV. 3060 FT.
4. THERE ARE TWO REINFORCEMENTS ON THE SLOPE; GEOGRID (18 FT LONG, PLACED IN 2 FT LIFTS), AND GEOFABRIC (6 FT LONG, PLACED IN 1 FT LIFTS BETWEEN THE GEOGRID LAYERS.
5. THE SLOPE AT THE HEEL OF THE SLOPE WILL DAYLIGHT AT A 2% SLOPE AT STATIONS 39+25, 39+75 LENGTH OF PIPE NEEDED IS AT EACH STATION IS 60 FT.
6. ADDITIONAL TOE DRAINS WILL BE PLACE AT STATION 39+25, 39+75 AT ELEV. 3092 LENGTH OF PIPE NEEDED IS AT EACH STATION IS 34 FT. THE PIPE SHALL DAYLIGHT AT 2% SLOPE.
7. 36 IN X 34 FT CMP CULVERT WILL BE PLACED AT 39+25. THE DROP INLET SIZE IS 36 IN X 60 IN.
8. BENEATH THE CULVERT THERE WILL BE A TOE DRAIN THAT SHALL DAYLIGHT AT 2% SLOPE. THE LENGTH OF THE PIPE WILL BE 60 FT.
9. COMPACTION WILL BE TO 95%.

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PROJECT NAME

FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RAY RANGER DISTRICT

DRAWING TITLE

SITE 6 STRUCTURE ALIGNMENT PROFILE

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-111
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 11 OF 19

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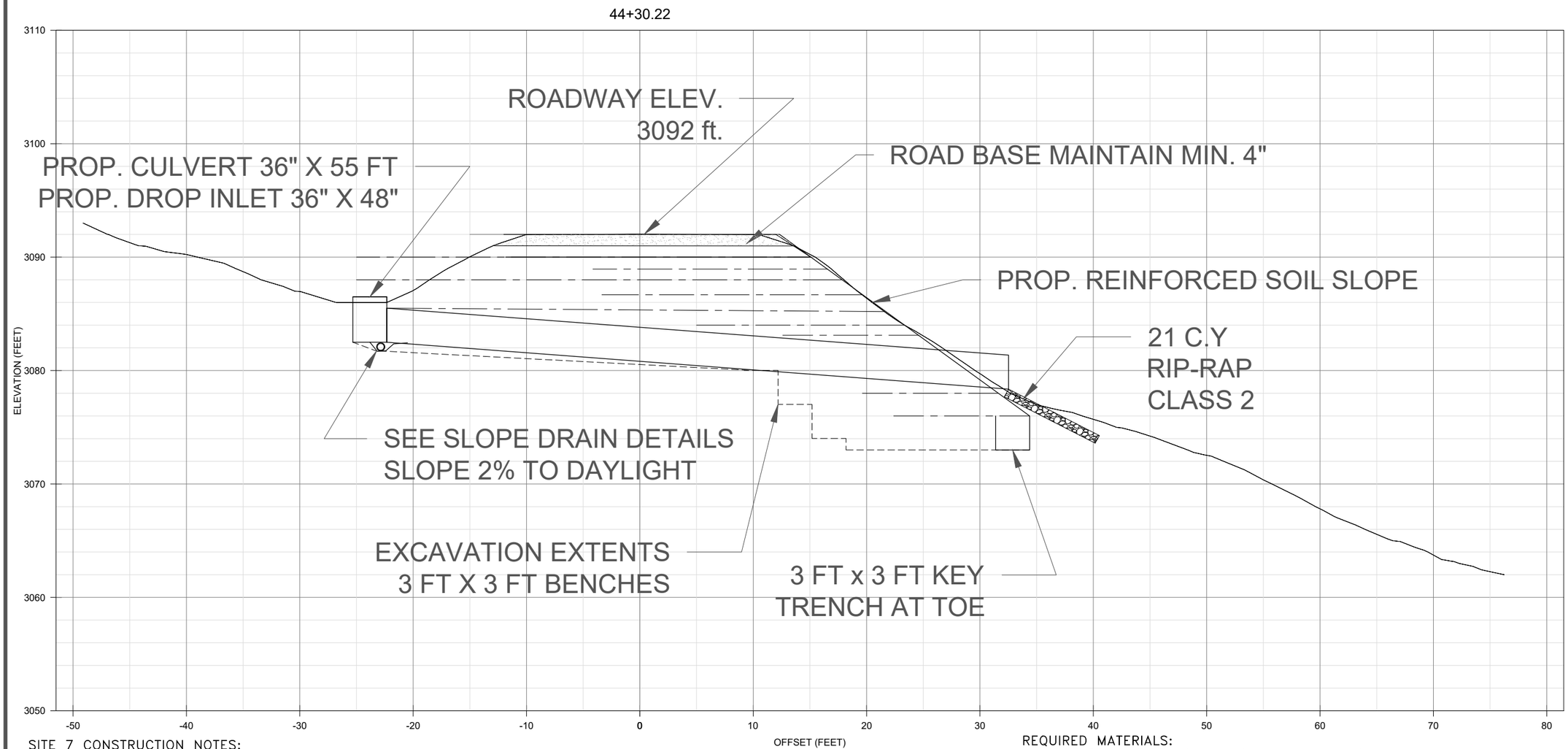

SITE 7 CONSTRUCTION NOTES:

1. ALL OFF THE MATERIALS THAT ARE EXCAVATED FROM THE SLOPE WILL BE SALVAGED FOR THE CONSTRUCTION OF THE REINFORCED SOIL SLOPE. EXCAVATION MUST LEAVE IN 3 FT X 3 FT BENCHES FOR INTERLOCKING OF EXISTING AND NEW FILL.
2. THE NEW FILL KEY AT THE TOE OF THE SLOPE IS 3 FT X 3 FT. THERE WILL BE RIP-RAP PLACED IN FRONT OF THE KEY THAT WILL EXTEND OUT 3 FT. BOTTOM ELEV. OF THE RIP-RAP & KEY IS 3073 FT.
3. THE BOTTOM LAYER OF THE REINFORCED SOIL SLOPE WILL BE AT ELEV. 3076 FT.
4. THERE IS ONE REINFORCEMENT ON THE SLOPE; GEOGRID (12 FT LONG, PLACED IN 2 FT LIFTS).
5. 1 – 36 IN X 55 FT CMP CULVERTS WILL BE PLACED AT 44+30. THE DROP INLET SIZE IS 36 IN X 48 IN.
6. THE SLOPE AT THE HEEL OF THE SLOPE WILL DAYLIGHT AT A 2% SLOPE AT STATIONS 44+30. A SLOPE DRAIN WILL BE PLACED BELOW THE CULVERT. THE LENGTH NEEDED IS 56 FT.
7. COMPACTION WILL BE TO 95%.

REQUIRED MATERIALS:

1. HDPE DRAIN PIPE: Non-perforated and perforated, double walled, 4" diameter HDPE pipe. Use Hancor Hi-Q or equivalent.

2. GEOCOMPOSITE: Use Aquadrain 20H on foundation with the drainage surface facing up or equivalent.

3. HDPE FILTER FABRIC GEOTEXTILE: Use Mirafi monofilament (filterweave) or equivalent.

4. GEOGRID: Tensar UX1600 MSE or equivalent.

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Los Padres National Forest

MONTEREY RAY
RANGER DISTRICT

DRAWING TITLE

SITE 7 STRUCTURE ALIGNMENT PROFILE

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-112
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 12 OF 19

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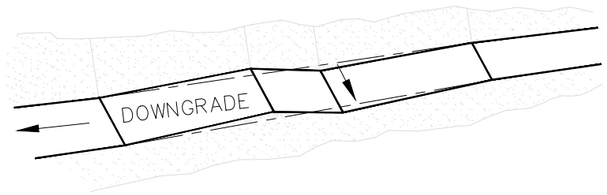
NOTES:

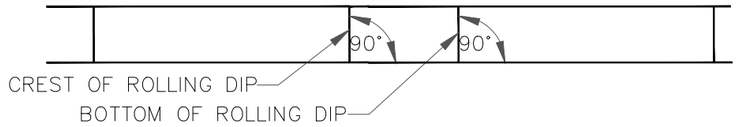
1. WHEN ROLLING DIPS ARE CONSTRUCTED IN DITCH SECTIONS THE DITCH SHALL DRAIN ACROSS THE ROLLING DIP. RESUME DITCH CONSTRUCTION 25' DOWNGRADE FROM THE CREST OF THE ROLLING DIP.

2. OUTLET DRAIN DITCHES SHALL HAVE CUT SLOPES EQUAL TO OR FLATTER THAN 1.5:1. EXCAVATION FROM OUTLET DITCHING SHALL BE WASTED ALONG THE SIDES OF THE DITCH. ALL NECESSARY CLEARING WILL BE TREATED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.

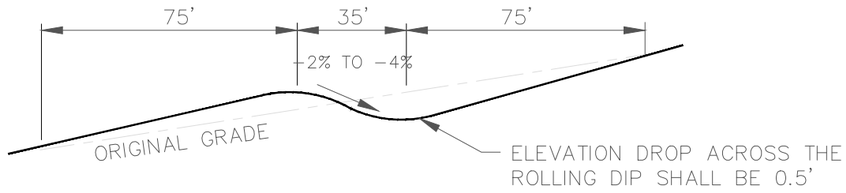
3. TOLERANCE CLASS THROUGH THE ROLLING DIP SHALL BE CLASS C (203.16).



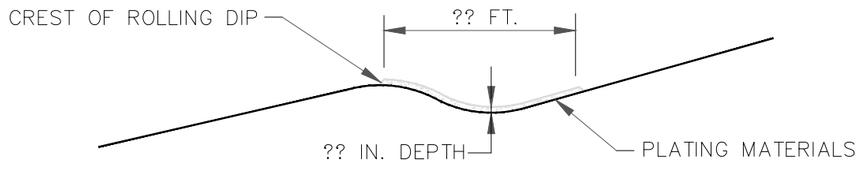
PERSPECTIVE VIEW



PLAN VIEW

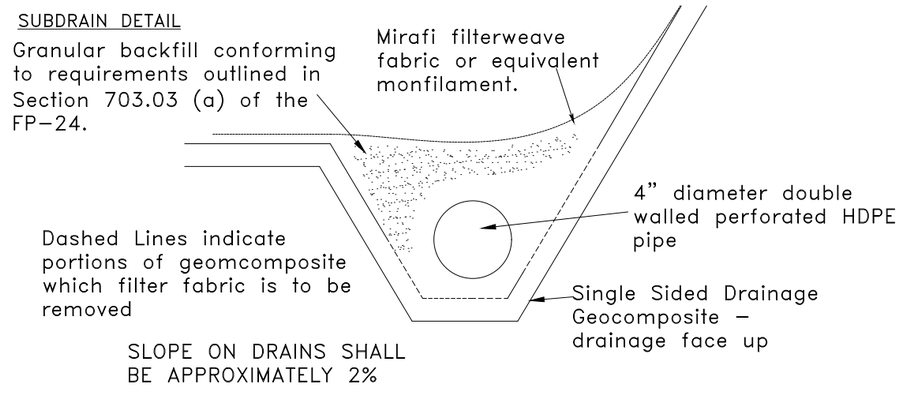


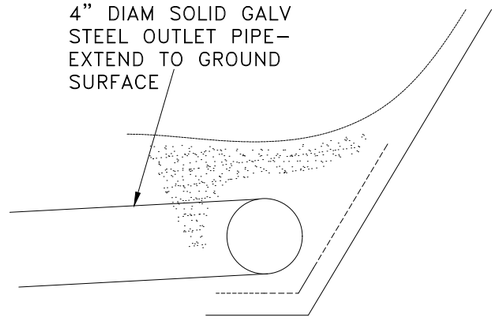
PROFILE ROLLING DIP



PROFILE ROLLING DIP WITH PLATING

SUBDRAIN DETAIL





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FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RAY RANGER DISTRICT

DRAWING TITLE

Rolling Dip & Toe Drain Details

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-113
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 15 OF 19

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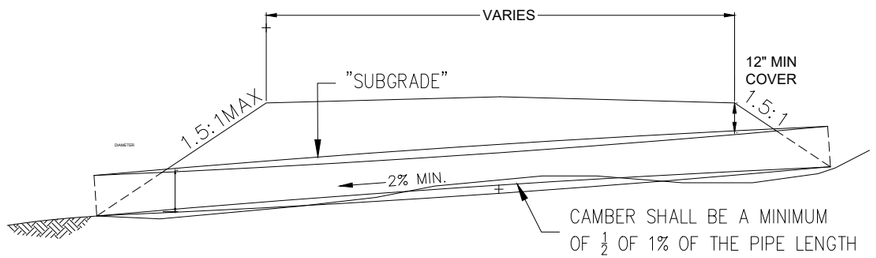
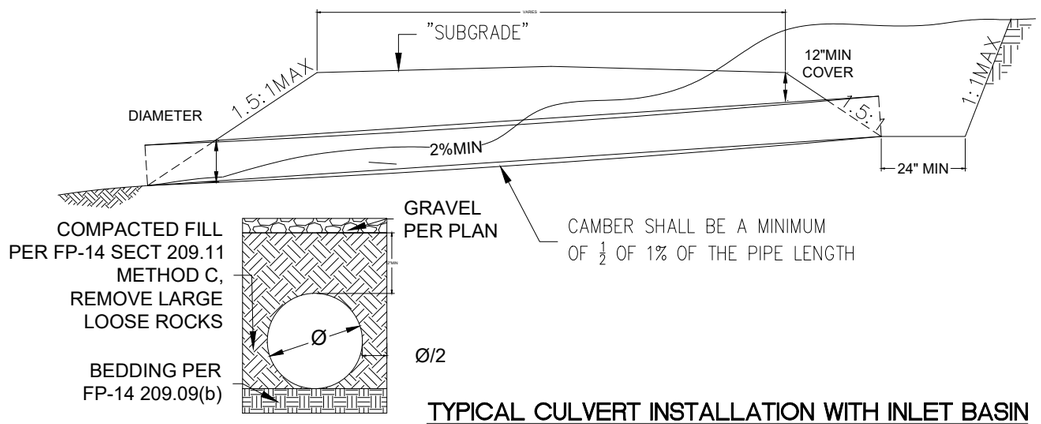
TYPICAL CULVERT INSTALLATION DETAILS

N.T.S.



TYPICAL CULVERT INSTALLATION



TYPICAL CULVERT INSTALLATION WITH INLET BASIN

PIPE INSTALLATION

NOTES - ALL ROADS:

1. THE OUTLETS OF ALL PIPE TO BE INSTALLED AND ALL EXISTING PIPE TO REMAIN SHALL BE CONSTRUCTED OR RECONSTRUCTED TO PROVIDE FOR A MINIMUM OF A -1% DRAINAGE SLOPE AWAY FROM ALL CSP FOR A MINIMUM OF 50'. WHERE NECESSARY, CULVERTS SHALL HAVE A LEAD OFF DITCH OF SUFFICIENT LENGTH TO ASSURE AN ADEQUATE DRAINAGE OUTLET. PAYMENT FOR THE CONSTRUCTION OF LEAD OFF DITCHES UP TO 50' HAS BEEN INCLUDED IN CULVERT PAY ITEMS.
2. CULVERTS NOTED TO BE SKEWED ON THE PLANS SHALL BE SKEWED AS STAKED BY THE ENGINEER.
3. ALL EXISTING PIPE LISTED FOR REMOVAL SHALL BE DISPOSED OFF GOVERNMENT PROPERTY. IN MULTIPLE PIPE INSTALLATIONS, THE ADJACENT SIDES OF PIPE SHALL BE AT LEAST ONE-HALF THE NOMINAL PIPE DIAMETER APART OR 3', WHICHEVER IS LESS.
4. BACKFILL AROUND CULVERTS IS COMPACTION METHOD B, OF SPECIAL PROJECT SPECIFICATIONS SUB PARAGRAPH 209.11 - “ADJUST THE MOISTURE CONTENT OF THE BACKFILL MATERIAL TO A MOISTURE CONTENT SUITABLE FOR COMPACTION. COMPACT EACH LAYER USING APPROPRIATE COMPACTION EQUIPMENT UNTIL VISUAL DISPLACEMENT CEASES.”
5. ALL GROUND DISTURBED OUTSIDE OF THE ROADBED IS REQUIRED TO BE SEEDED AND MULCHED, UNLESS NOTED OTHERWISE.
6. PIPE INSTALLATIONS LISTED AS "DEEP FILL" HAVE 5' OR MORE OF COVER AND PAYMENT INCLUDES CONSIDERATION FOR ADDITIONAL EXCAVATION WORK REQUIRED AT THESE LOCATIONS.
7. POLYMERIC COATED CORRUGATED STEEL PIPE MAY BE SUBSTITUTED FOR ALUMINUM COATED, TYPE 2 CORRUGATED STEEL PIPE AND WILL BE CONSIDERED AS EQUAL FOR PAYMENT. WHERE POLYMERIC COATED PIPE IS USED, THICKNESS OF COATING SHALL BE 10 MILS INSIDE AND 10 MILS OUTSIDE. POLYMERIC COATED PIPE MAY NOT BE BANDED TO ALUMINUM COATED OR SOLID ALUMINUM PIPE. ALL EXPOSED METAL OR AREAS OF PIPE WHERE POLYMERIC OR ALUMINUM COATING IS DAMAGED SHALL BE PAINTED WITH A ZINC DUST-ZINC OXIDE POWDER CONFORMING TO FEDERAL SPECIFICATION TT-P-641 OR MIL-P-21085 AND A TWO COMPONENT EPOXY PAIN, "SCOTCH CLAD", 2M, PPG OR EQUAL. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CULVERT PAY ITEMS.
8. 18" MINIMUM BANDING OR LARGER WILL BE REQUIRED TO ATTACH MULTIPLE SECTIONS OF PIPE 36-INCHES IN DIAMETER OR LARGER.
9. MASTIC SEALANT REQUIRED ON ALL PIPES LARGER THAN 48" REQUIRING BANDING. THE MASTIC SHALL CONFORM TO AASHTO M 243. PIPES SMALLER THAN 48" SHALL BE SEALED WITH MASTIC IF ANY GAPS BETWEEN PIPES IS GREATER THAN 1.5"

NOTES:
1. RIPRAP CLASS 2, PLACEMENT METHOD A IS REQUIRED. GRADATION SHALL BE AS REQUIRED IN STANDARD SPECIFICATION TABLE 705-1, WHICH IS AS FOLLOWS:

PERCENT OF ROCK EQUAL OR SMALLER BY COUNT, Dx	WEIGHT (POUNDS)	RANGE OF INTERMEDIATE DIMENSIONS (INCHES)
100	270-750	15-21
85	110-270	11-15
50	42-110	8-11
15	10-42	6-8

2. GEOTEXTILES SHALL BE PLACED UNDER RIPRAP IN ALL INSTALLATIONS AND SHALL MEET THE REQUIREMENTS FOR TYPE IV-D OF SECTION 714.01 OF THE SPECIFICATIONS OF FP-14. GEOTEXTILE SHALL BE NONWOVEN. PAYMENT FOR GEOTEXTILES IS INCIDENTAL, INCLUDED IN PAY ITEM 25101-1. IN NARROW CHANNELS, ADJUST ROCK TO FIT STREAMBANKS.

NOTES:
1. CULVERT SPECS

STATION	DIAMETER (INCHES)	SKEW DEGREES	EXISTING TO REMAIN	EXISTING REMOVE & DISPOSE
11+03	48	17	0	0
11+08	48	0	0	0
33+00	36	5	0	0
33+25	36	5	0	1
39+25	36	11	0	1
44+30	36	5	0	1

2. THERE ARE TWO OVER DRAINS PRESENT AT THIS SITE BY STATION 11+05, 19+65, & 37+85. THESE WILL BE SET ASIDE FOR GOVERNMENT USE.

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FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RAY
RANGER DISTRICT

DRAWING TITLE

CULVERT DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-114
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 16 OF 19

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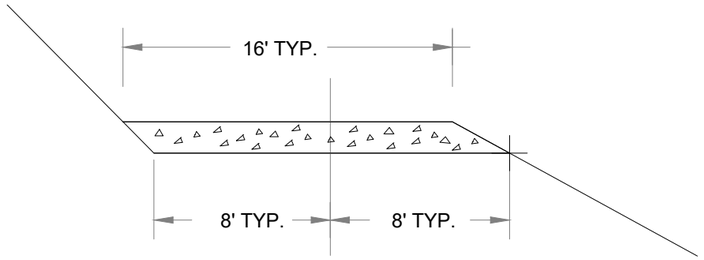
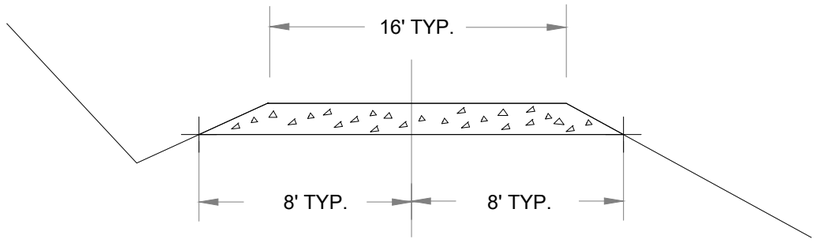


SECTION WITHOUT DITCH



SECTION WITH DITCH

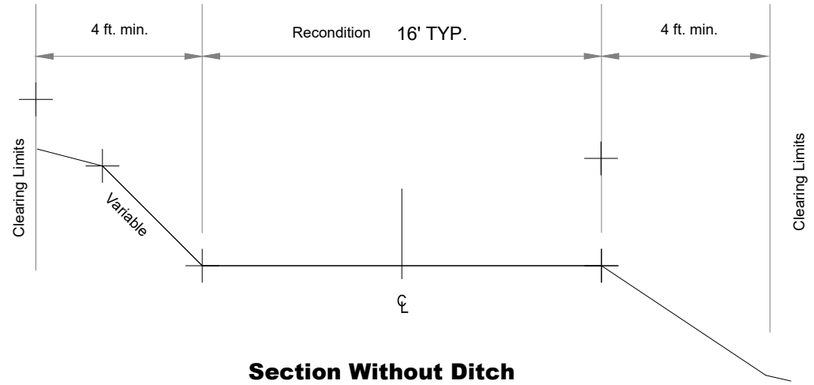
NOTES:

*Variable, see descriptions of work

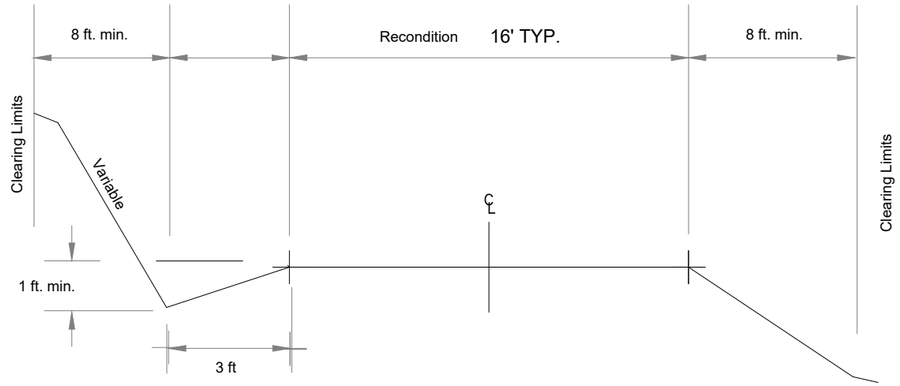
Traveled way width shown is without necessary widening for fill, sluff, curves, intersections and turnouts. Required widening has been included in the design and quantity calculations. Curve widening and turnouts shall be graveled unless otherwise noted in the Description of Work.

	GRADING	COMPACTED DEPTH	COMPACTION METHOD
SURFACE COURSE	N/A	*	A
PIT RUN	N/A	*	A
SUBBASE COURSE	A or B	*	A

SOURCE LOCATION: Crushed aggregate - Custer Peak Pit



Section Without Ditch



Section With Ditch

NOTE: *See descriptions of work for exact widths
Required reconditioning includes necessary widening for fill, sluff, curves and turnouts.

Scarification:	Surface irregularities greater than 2 in.
Rock Disposal:	Cast over fill slope.
Clearing:	Scatter debris outside of clearing limits.
Excess and Unsuitable Material:	Dispose of as approved by the CO.
Intersecting Roads:	Blade for 50 ft. each direction.

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Los Padres National Forest

MONTEREY RAY
RANGER DISTRICT

DRAWING TITLE

ROADWAY DETAILS

DATE 01/11/2025
ARCHIVE NO.
DESIGNER B.COUPE
DRAWN B.COUPE
CHECKED X.XXX
PROJECT NO.
DRAWING SHEET NO. C-115
SHEET 17 OF 19

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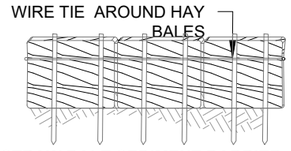
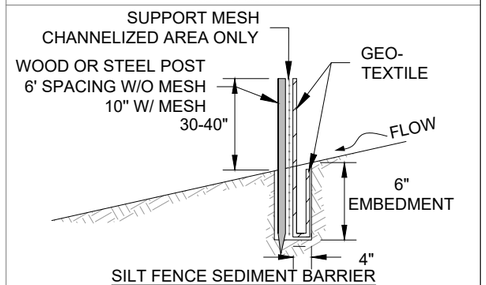
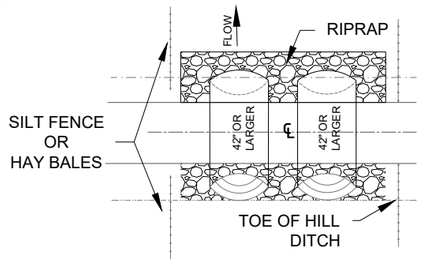


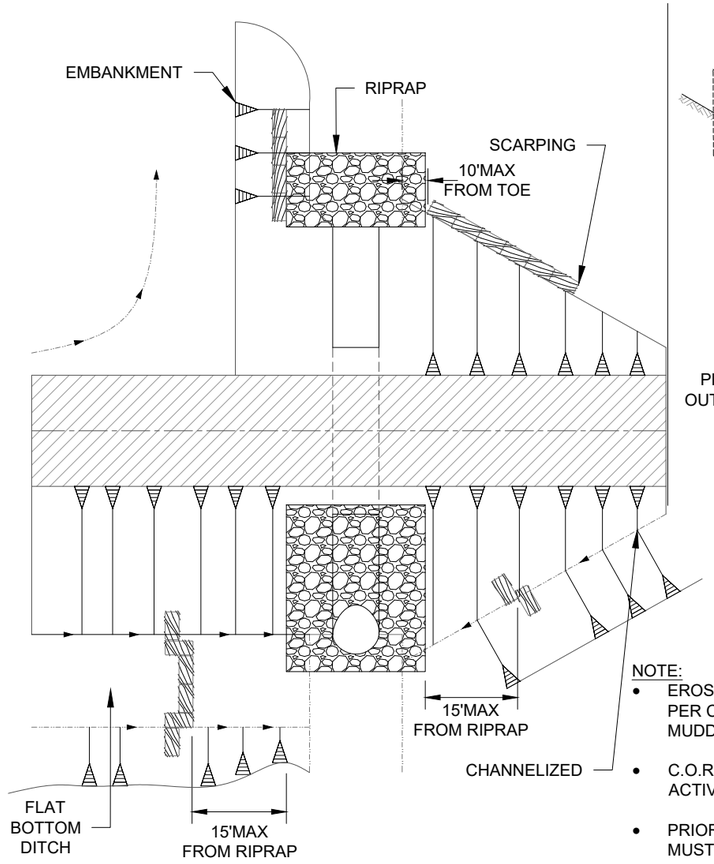
STRAW BALE SEDIMENT BARRIER
NOT TO SCALE

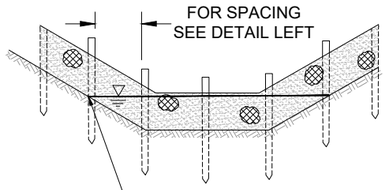


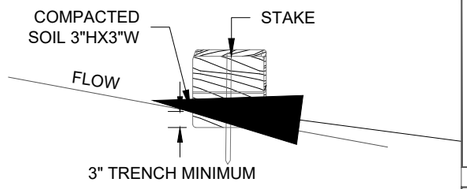
SILT FENCE SEDIMENT BARRIER
NOT TO SCALE



SILT BARRIER BAIL INSTALLATION
NOT TO SCALE



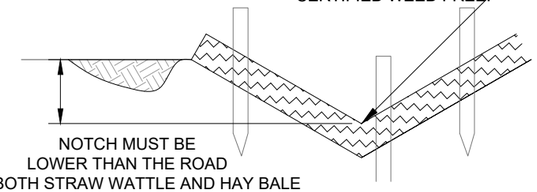




PLACE IN DRAINAGE DITCH OR CULVERT OUTLET DURING CONSTRUCTION ADJACENT TO CREEKS

SILT FENCE INSTALLATION IN DITCH
NOT TO SCALE

OPTION: UTILIZE STRAW WATTLE (IN LIEU OF STRAW HAY BALES) BY NORTH AMERICAN GREEN OR EQUAL. PRODUCT MUST BE CERTIFIED WEED FREE.

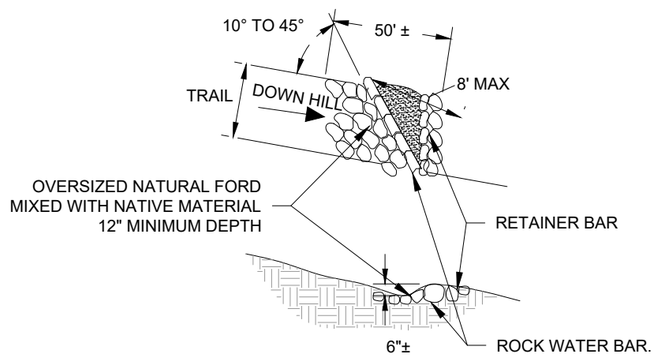


NOTE:

- EROSION CONTROL MEASURES (WHERE APPLICABLE) SHALL BE PLACED PRIOR TO EARTH MOVEMENT PER CALIFORNIA STATE WATER BOARD. CONTRACTOR SHALL DUE PROPER DILIGENCE TO PREVENT THE MUDDYING OF AFFECTED CREEKS.
- C.O.R. OR E.R. MAY REQUIRE ADDITIONAL MEASURES OF SEDIMENT CONTROL DURING CONSTRUCTION ACTIVITIES TO PREVENT THE MUDDYING OF DRAINAGE STRUCTURES.
- PRIOR TO WORK STOPPAGE ANY GRADED DRAINAGE STRUCTURES DISCHARGING INTO A WATERWAY MUST BE SEEDED TO REDUCE SEDIMENTATION.
- PLANS SHOWN ARE EXAMPLES ONLY, CONTRACTORS MAY SUBMIT THEIR PLANS FOR COR/ER APPROVAL.

NOTE:
ON SLOPES GREATER THAN 10% INSTALL REINFORCED ARMORED GRADE DIP. PLACE OVERSIZED ROCK IN AN EXCAVATED TRENCH TO MATCH SURFACE FLUSH WITH THE DRIVING TREAD SURFACE. CONSTRUCT WATER BAR USING RECTANGULAR SHAPED ROCKS WITH MINIMUM SIZE OF 18" IN THE SMALLEST DIMENSION, BUTTED TOGETHER BUT NOT OVERLAPPED. PLACE THE HEAVIEST ROCK AT THE DOWNHILL SIDE AND LAY ROCKS UNTIL TIED INTO THE BANKS. BURY $\frac{2}{3}$ OF EACH ROCK AT A 45° ANGLE. ADD A RETAINER BAR OF ROCKS ANGLED IN THE OPPOSITE DIRECTION FROM WATER BAR NEARLY TOUCHING DOWNHILL EDGE OF THE WATER BAR. FILL THE SPACE BETWEEN THE WATER BAR AND RETAINER WITH A COMPACTED MIXTURE OF NATURAL FORD AND NATIVE MATERIAL.

PAY ITEM 20426-1 ROCK WATER BAR INCLUDES PAYMENT FOR MATERIALS AND LABOR REQUIRED TO EXCAVATE TRENCH AND PLACE ROCKS FOR WATER BAR AND RETAINER BAR. PLACEMENT AND COMPACTION OF 50' LENGTH NATURAL FORD MATERIAL IS INCLUDED IN PAY ITEM 30118.



ROCK WATER BAR DETAIL
NTS

USDA FOREST SERVICE
United States Department of Agriculture
Forest Service
(R05)
Pacific Southwest Region

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE
4		
3		
2		
1		

PROJECT NAME
FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RAY
RANGER DISTRICT

DRAWING TITLE
EROSION CONTROL DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-116
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 18 OF 19

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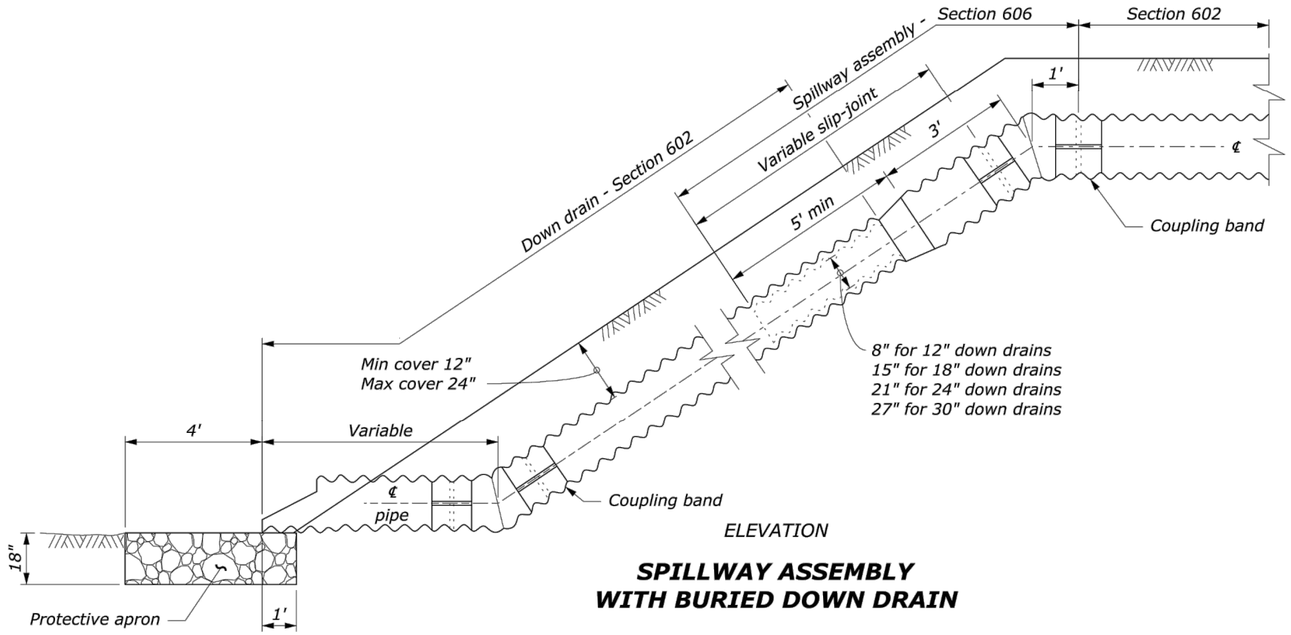
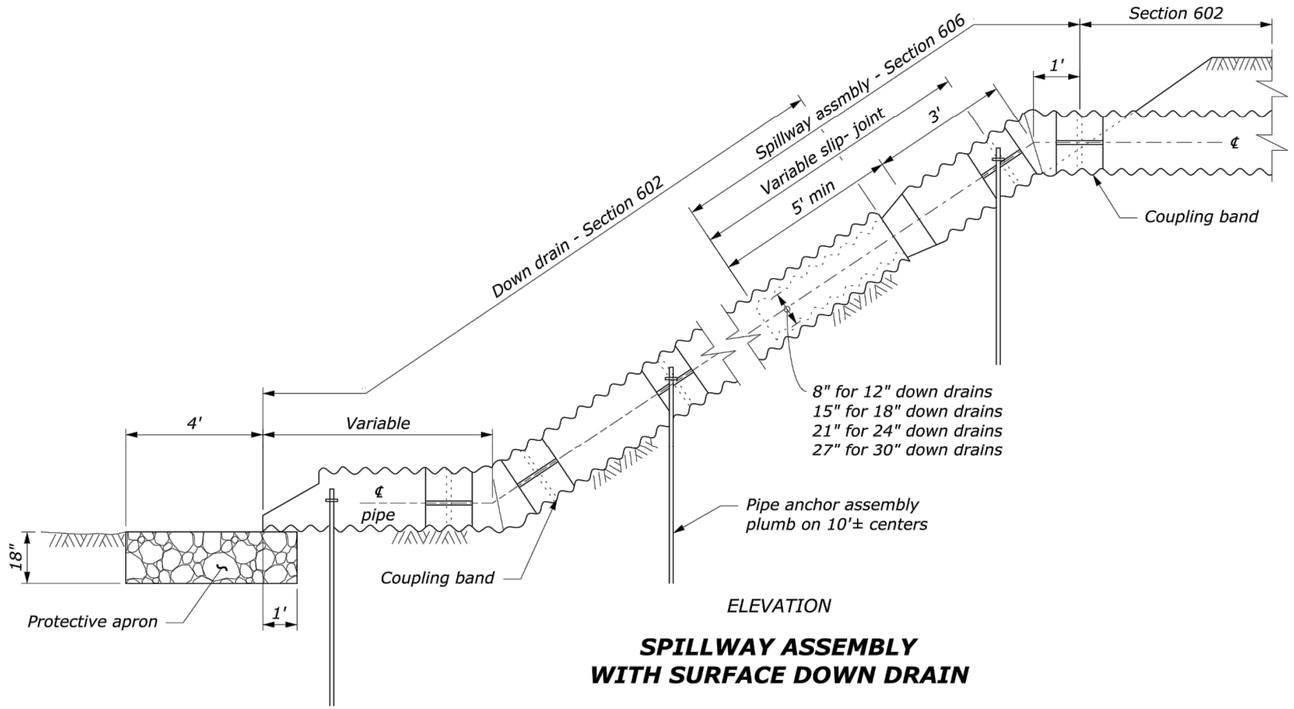
PROJECT	SHEET NUMBER



ELEVATION

SPILLWAY ASSEMBLY WITH BURIED DOWN DRAIN

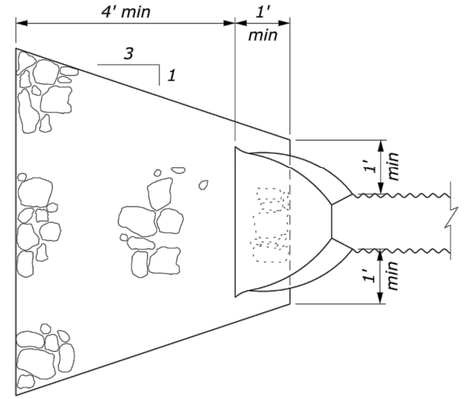


ELEVATION

SPILLWAY ASSEMBLY WITH SURFACE DOWN DRAIN

NOTE:

1. *Fabricate spillway assembly from annular corrugated pipe, or from helically corrugated pipe with factory annular or reformed ends. Use 0.064-inch galvanized steel or 0.060-inch aluminum.*
2. *Make all coupling band connections water tight by placing $\frac{3}{16}$ inch bead of approved caulking under each half of the band before tightening.*
3. *Place class 2 riprap conforming to Section 251 for protective apron.*
4. *Approved alternate designs may be used.*
5. *See Standard W606-14 for Pipe Anchor Assembly Detail.*



PLAN

PROTECTIVE APRON

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION, FHWA
OFFICE OF FEDERAL LANDS HIGHWAY

SPILLWAY ASSEMBLY WITH DOWN DRAIN AND SLIP-JOINT

WFL STANDARD W606-11
SPECIFICATION FP-24. FP-14
APPROVED FOR USE 9/2009

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FSR 20S05.3 - Storm Damage

Los Padres National Forest

MONTEREY RAY RANGER DISTRICT

DRAWING TITLE
DOWNDRAIN DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-117
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 19 OF 19

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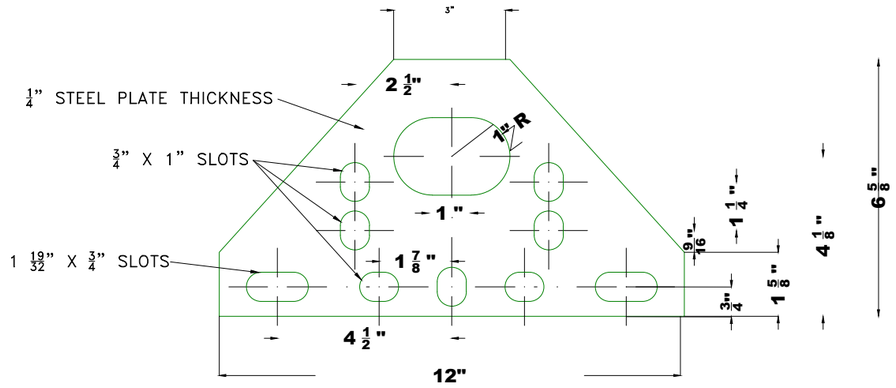
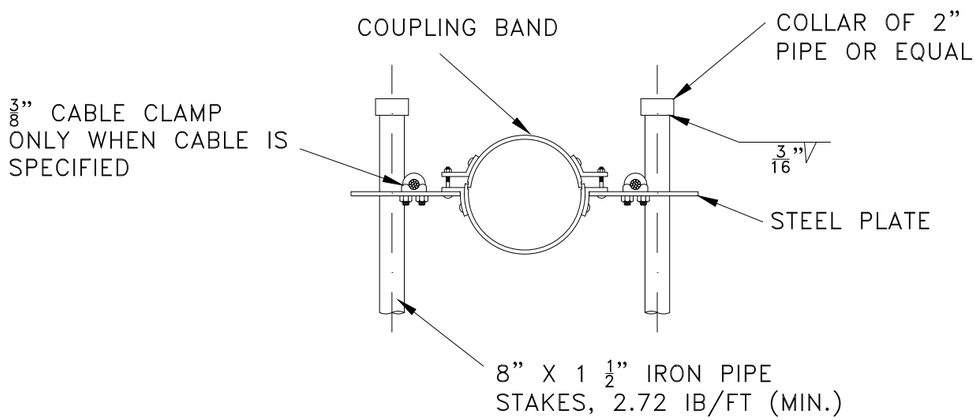


MEASURE LENGTH OF COUPLING BAND PARRALLEL TO THE CENTERLINE OF THE PIPE

STEEL PLATE

NOTE

1. GALVENIZE ALL PIPE STAKES AND HARDWARE AFTER FABRICATION.
2. APPROVED ALTERNATIVE PIPE ANCHOR ASSEMBLIES MAY BE USED.
3. PLACE SLPE ANCHOR ASSEMBLIES ON 20' MAX CENTERS ON SLOPES 20% OR GREATER
4. PLATE MATERIAL TO BE ASTM A36. GALVENIZE AFTER FABRICATION.



ANCHOR ASSEMBLY

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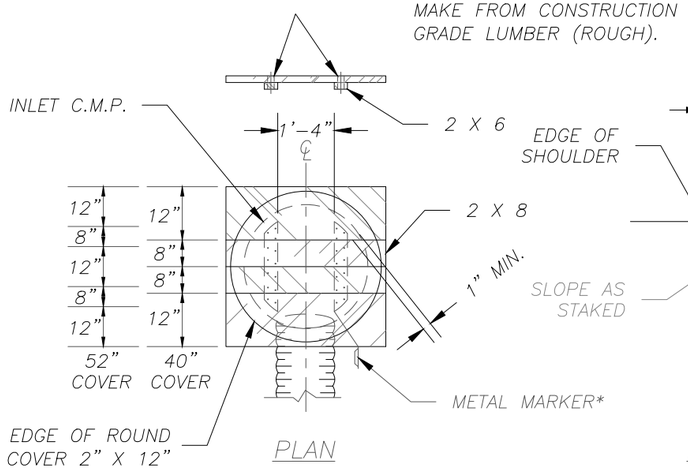
MONTEREY RAY RANGER DISTRICT

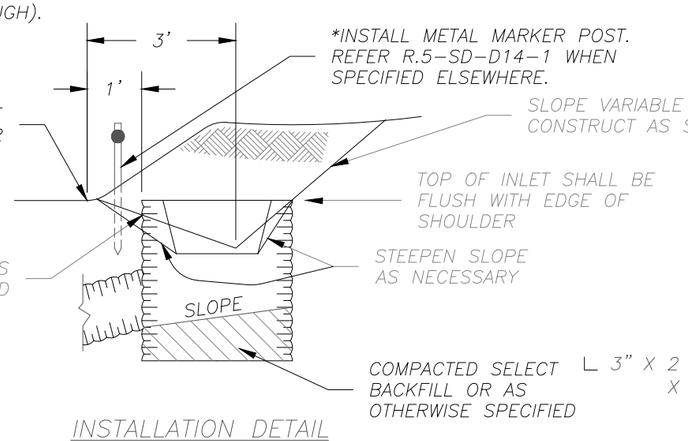
DRAWING TITLE

PIPE ANCHOR ASSEMBLY DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-118
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 20 OF 19

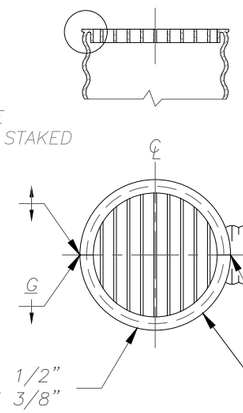


PLAN

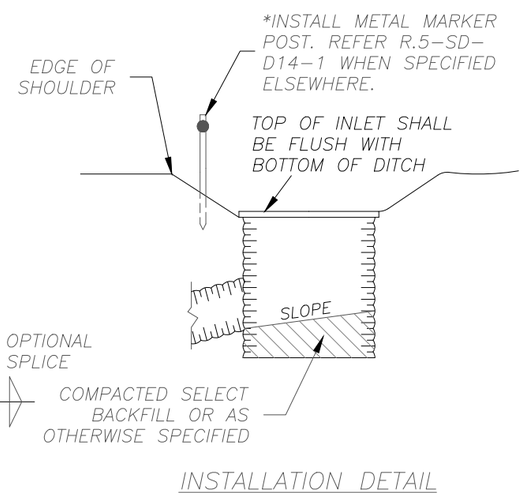


INSTALLATION DETAIL

INLET TYPE A

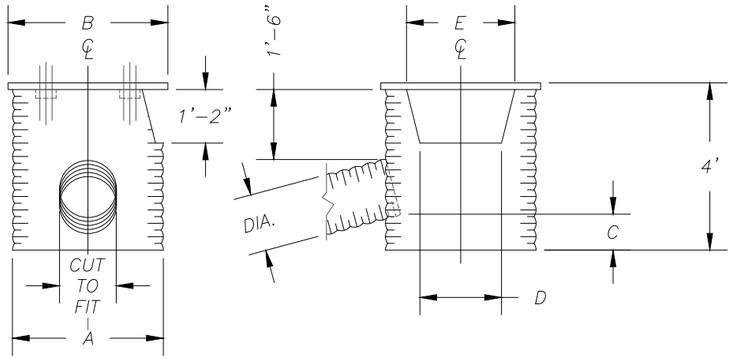


PLAN



INSTALLATION DETAIL

INLET TYPE B



FRONT VIEW

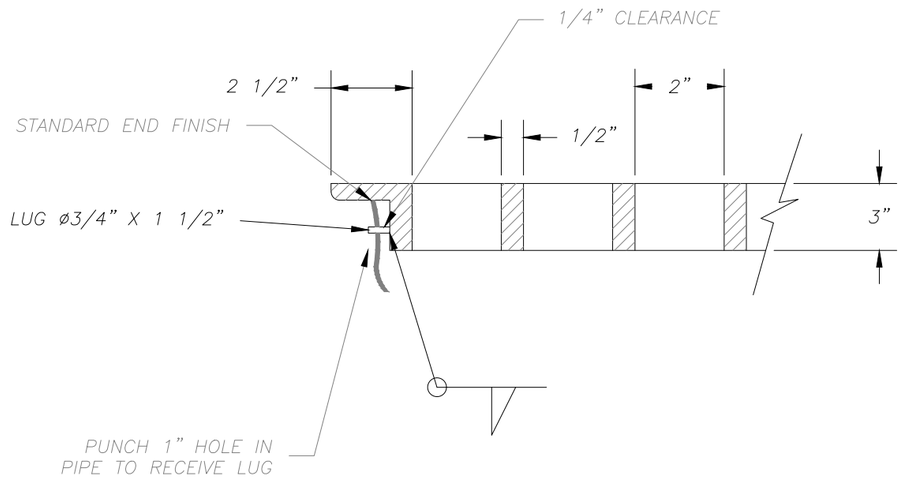
SIDE VIEW

FABRICATION DETAILS

INLET DIMENSION TABLE						
OUTLET PIPE DIA.	INTLET DIA. THICKNESS	A	B	C	D	E
18"	36" – 0.109"	36"	40"	12"	18"	24"

GENERAL NOTES

1) GRATE FOR TYPE "B" INLET ASSEMBLY SHALL BE INSTALLED ON TYPE "A" INLET WHEN SPECIFIED.
2) DIMENSIONS A AND C APPLY TO BOTH TYPES OF INLETS. DIMENSIONS B, D, AND E APPLY TO TYPE "A."
3) OPENINGS MAY BE FIELD CUT. CUT OPENINGS INSIDE OF INLET WHEN INLET IS LOCATED SO THAT WATER APPROACHES FROM TWO DIRECTIONS. TOTAL AREA OF OPENINGS SHALL NOT BE LESS THAN SHOWN.
4) USE ROUND OR SQUARE WOOD COVER WHEN SPECIFIED



DETAIL A

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FSR 20S05.3 - Storm Damage

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MONTEREY RAY RANGER DISTRICT

DRAWING TITLE

DROP INLET DETAILS

DATE 01/11/2025	ARCHIVE NO.
DESIGNER B.COUPE	DRAWING SHEET NO. C-119
DRAWN B.COUPE	
CHECKED X.XXX	
PROJECT NO.	SHEET 21 OF 19

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