



United States Department of Agriculture  
Forest Service

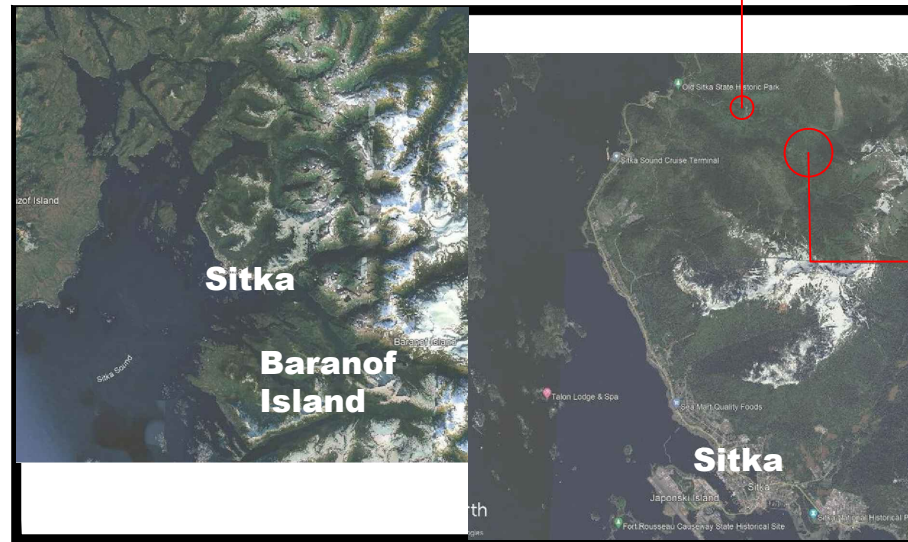
# R10 ALASKA REGION TONGASS NATIONAL FOREST

SITKA RANGER  
DISTRICT  
ALASKA

## STARRIGAVAN TRAILHEAD CONSTRUCTION

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PROJECT  
LOCATION  
(TRAILHEAD)



VICINITY MAP

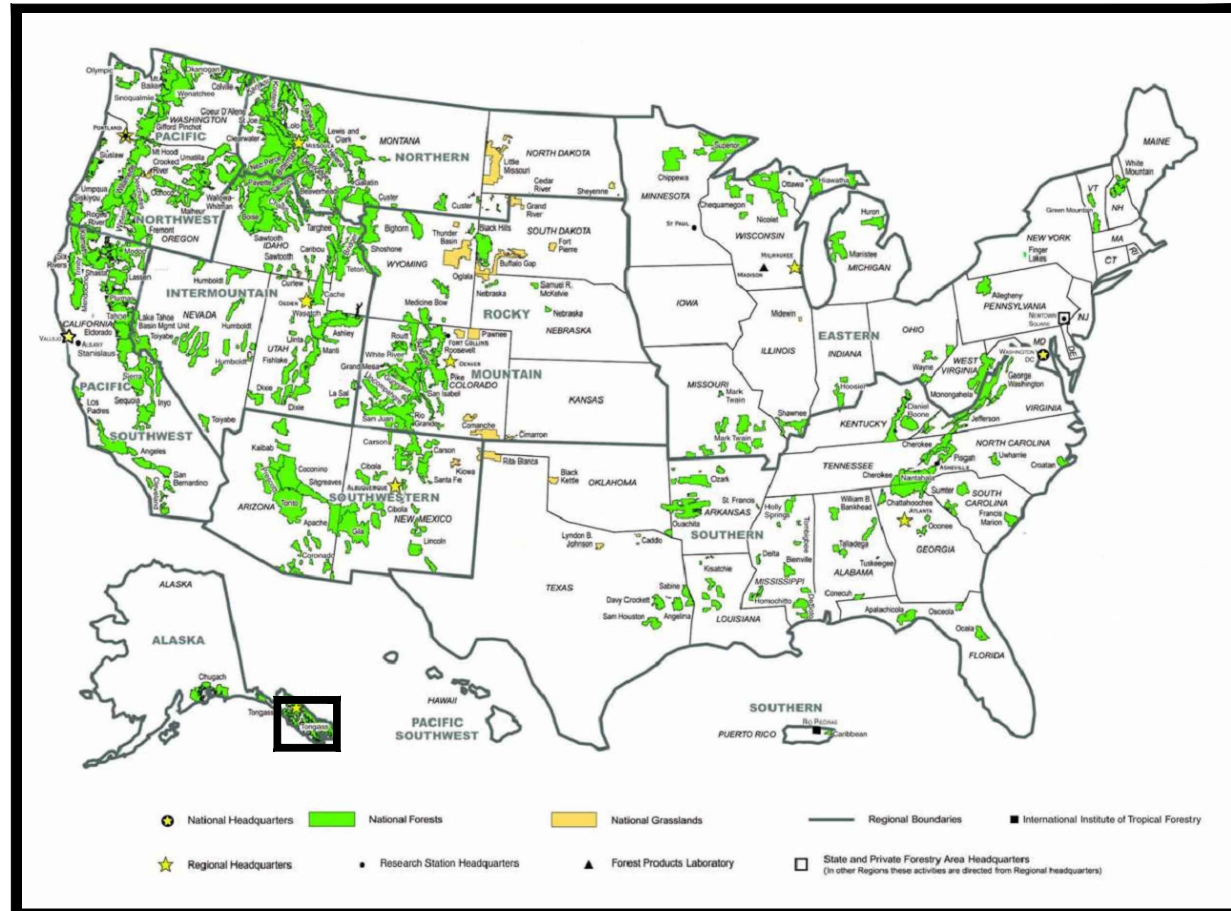
WATERSHED  
IMPROVEMENTS

**TRAVEL DIRECTIONS:**

FROM THE SITKA RANGER DISTRICT OFFICE, TRAVEL NORTHBOUND ON HALIBUT POINT ROAD FOR 5 MILES. TURN RIGHT ONTO NELSON LOGGING ROAD TOWARDS THE FIREARMS RANGE. CONTINUE ON NELSON LOGGING ROAD FOR 1 MILE UNTIL REACHING THE PROJECT. LAT: 57°7'40.09"N; LON: 135°20'53.18"W

**PROJECT DESCRIPTION:**

THIS PROJECT INCLUDES THE CONSTRUCTING NEW TRAILHEAD PARKING LOT, DISPOSING EXCESS EXCAVATION, RIPRAP AND AGGREGATE BASE PLACEMENT, CLEARING AND GRUBBING, RELOCATING BRIDGES, WATERSHED IMPROVEMENTS, AND OPTION ITEMS AS OUTLINED IN THE SCHEDULE OF ITEMS.



PROJECT LOCATION

**RECOMMENDED BY:**

\_\_\_\_\_  
FOREST ENGINEER

\_\_\_\_\_  
DATE

\_\_\_\_\_  
DISTRICT RANGER

\_\_\_\_\_  
DATE

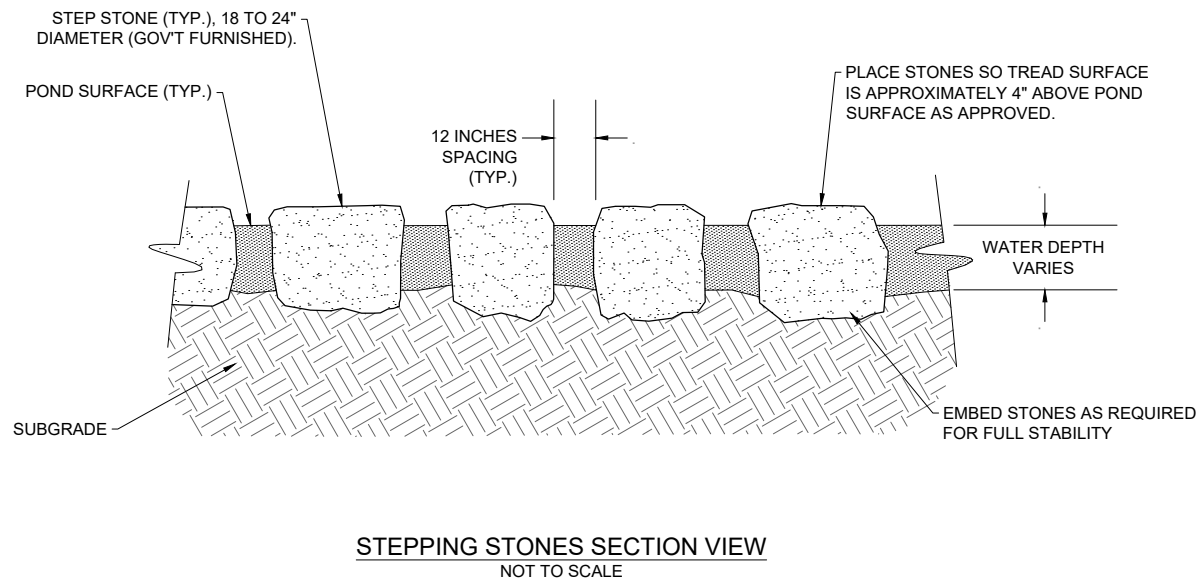
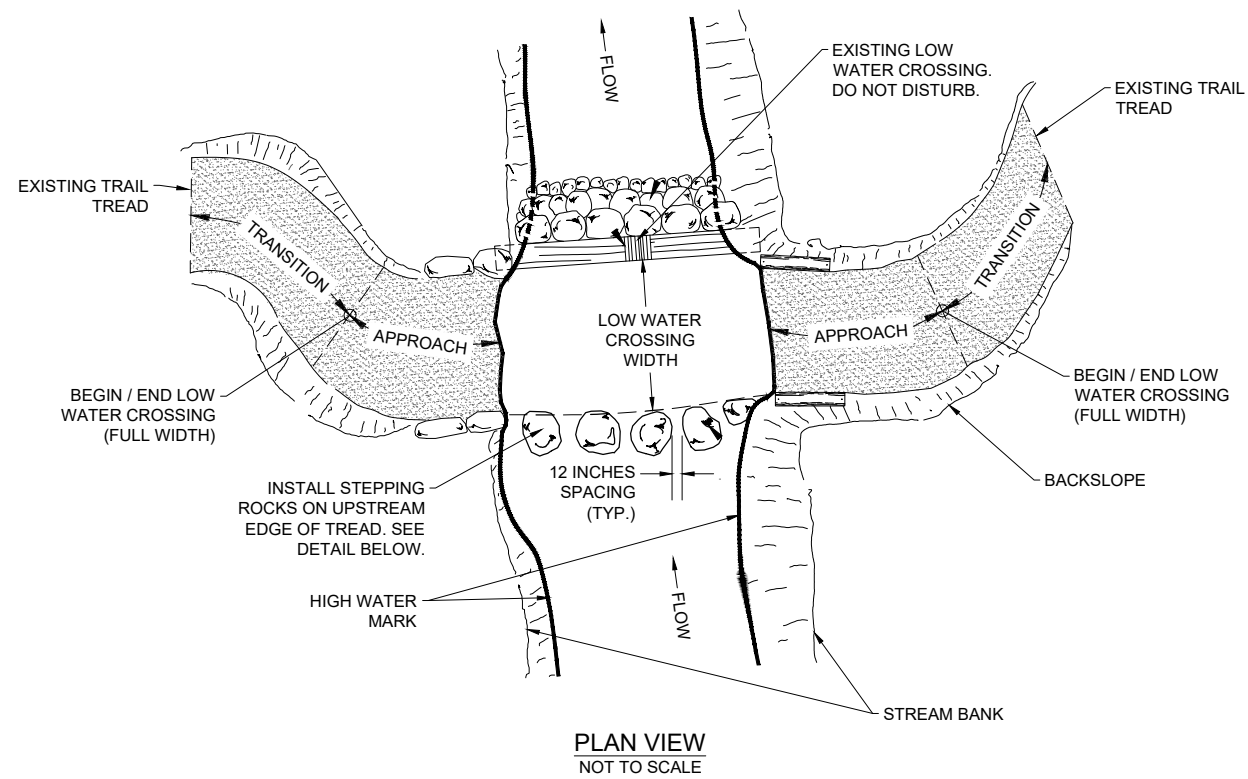
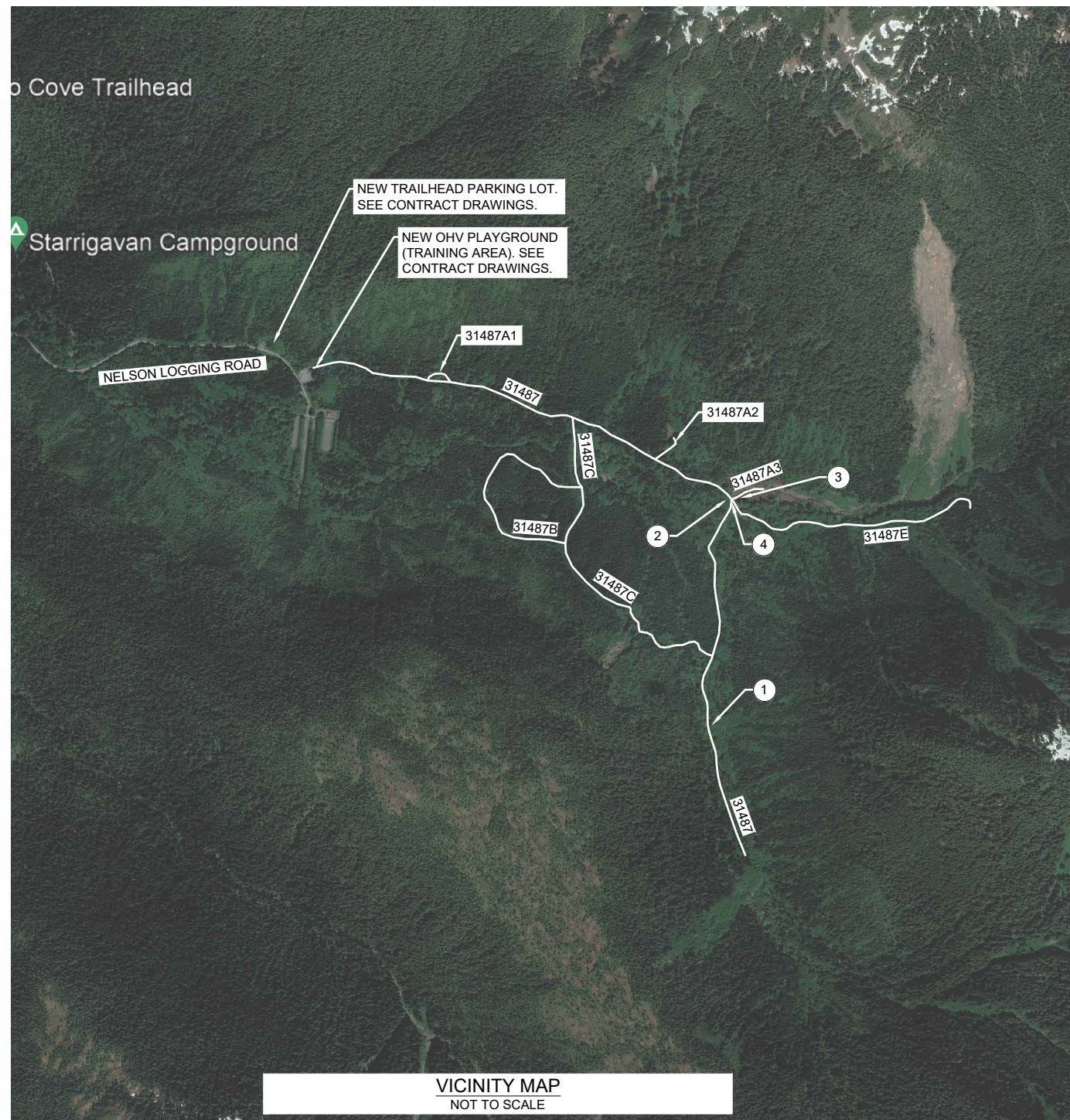
**APPROVED:**

\_\_\_\_\_  
FOREST SUPERVISOR

\_\_\_\_\_  
DATE



3/2/23 08:41 MALANIZ C:\USERS\MALANIZ\BOX\EP\_ONESTOP\SHOPEP\_PROJECT\_AGREEMENTS\FSR10-1005-TONGASS\22-ENG-1005-8315\_WORKING\_FILES\_TRAILHEAD\REVISED CONTRACT\G2\_WATERSHED.WORK.DWG



WORK LIST			
SITE NO.	WORK DESCRIPTION	LATITUDE	LONGITUDE
①	CLEAR LANDSLIDE FROM TRAIL (#31487) UP SOUTH FORK STARRIGAVAN CREEK (APPROX. 200' X 7' DEEP X 14' WIDE). SIDE CAST SLIDE MATERIAL ONSITE, UPHILL SIDE OF ROAD ONLY.	57° 7' 1.34" N	135° 19' 25.94" W
②	RE-POSITION LOGS, ROOTWADS, AND EXCAVATE GRAVEL TO RE-OPEN SIDE CHANNEL DOWNSTREAM OF LOW WATER CROSSING FOR 100' OF CHANNEL LENGTH. WORK MUST BE COMPLETED BETWEEN JUNE 1st TO JULY 15th.	57° 7' 24.30"N	135° 19' 23.96" W
③	RE-POSITION LOGS AND RE-SHAPE CHANNEL BANKS UPSTREAM OF LOW WATER CROSSING. WORK MUST BE COMPLETED BETWEEN JUNE 1st TO JULY 15th.	57° 7' 24.30"N	135° 19' 23.96" W
④	INSTALL STEPPING STONES ACROSS MAINSTEM STARRIGAVAN CREEK NEAR LOW WATER CROSSING (10 TO 12 BOULDERS, GOVERNMENT FURNISHED). WORK MUST BE COMPLETED BETWEEN JUNE 1st TO JULY 15th.	57° 7' 24.15"N	135° 19' 22.03" W
⑤	GENERAL TRAIL MAINTENANCE; DITCH CLEANING, TREAD REPAIR, EMBANKMENT / CUT SLOPE WORK (NOT SHOWN ON THE MAP) ON TRAIL NO. 31487 AND ALL SPURS.	N/A	N/A



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STAMPS, LOGOS, AND SEALS

④		
③		
②		
①		
NO.	REVISION / ISSUE	DATE

PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE  
**WATERSHED WORK LIST & LOCATIONS**

DATE 3/20/2023	ARCHIVE NO. Road_typicals.dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>G2</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	SHEET 02 OF 20
PROJECT NO. 22-ENG-1005-83	





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ALASKA REGION

STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE

PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

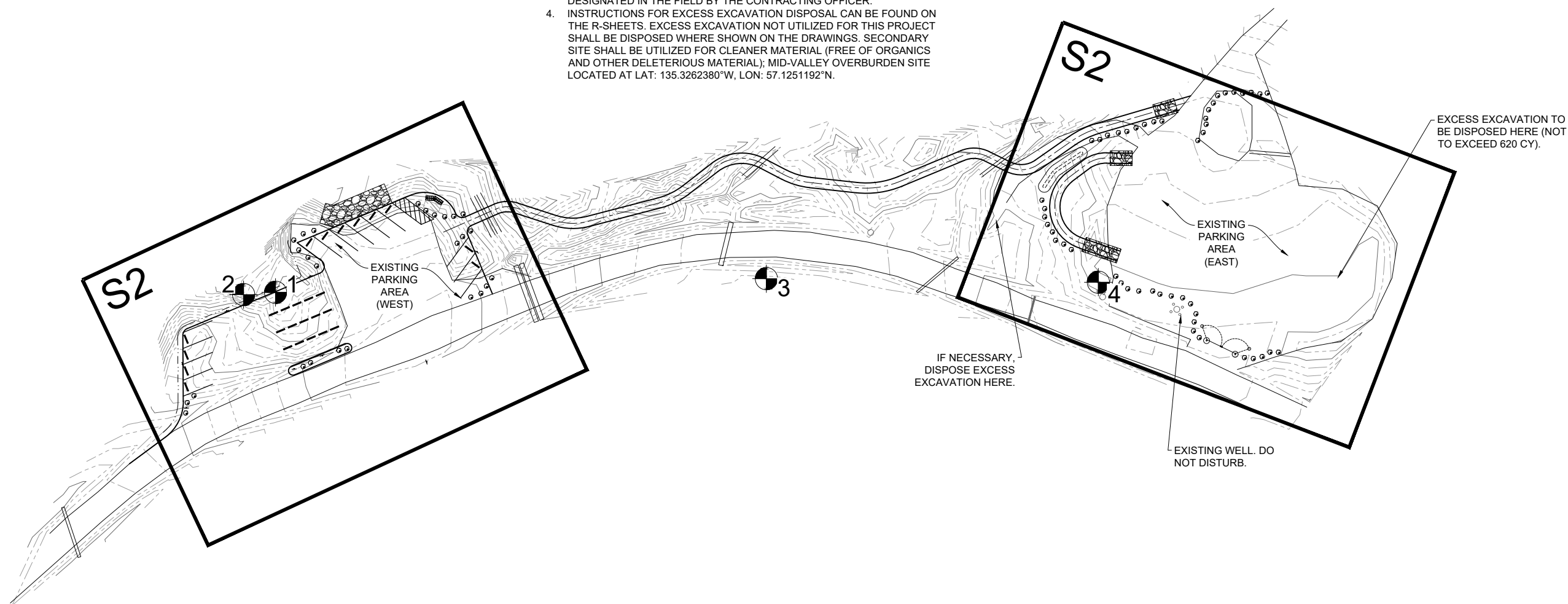
**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE  
**SITE PLAN OVERVIEW, SURVEY CONTROL AND DEMOLITION NOTES**

DATE 12/2/2022	ARCHIVE NO.
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>S1</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 03 OF 20

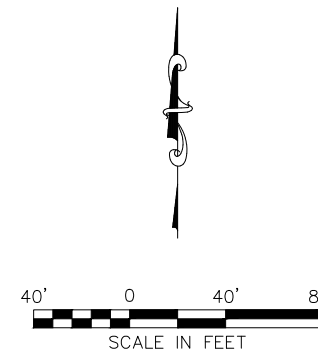
- NOTE:**
- EXISTING BOULDERS ONSITE CAN BE RE-USED FOR BARRIER ROCK AND RIPRAP SLOPES. OBTAIN ROCK FROM COMMERCIAL SOURCE IF ADDITIONAL ROCK IS NEEDED.  
- APPROXIMATELY 30 ROCKS AT THE EXISTING PARKING AREA (WEST).  
- APPROXIMATELY 100 ROCKS AT THE EXISTING PARKING AREA (EAST).
  - EXISTING BRIDGES CURRENTLY STORED AT THE EXISTING PARKING AREA (WEST) SHALL BE REMOVED INTACT OFFSITE AND TRANSPORTED TO THE LOCAL BARGE DEPOT FOR STORAGE. COORDINATE THIS WORK WITH THE CONTRACTING OFFICER, SO THE FOREST SERVICE CAN MAKE PREPARATIONS TO TAKE DELIVERY OF THE BRIDGES AT THE LOCAL BARGE DEPOT.
  - ALL TREES REMOVED SHALL BE BUCKED INTO LENGTHS NOT EXCEEDING 16-FOOT LENGTHS AND SHALL BE STORED ONSITE AT A LOCATION DESIGNATED IN THE FIELD BY THE CONTRACTING OFFICER. SLASH SHALL ALSO BE SCATTERED ONSITE AT A LOCATION DESIGNATED IN THE FIELD BY THE CONTRACTING OFFICER.
  - INSTRUCTIONS FOR EXCESS EXCAVATION DISPOSAL CAN BE FOUND ON THE R-SHEETS. EXCESS EXCAVATION NOT UTILIZED FOR THIS PROJECT SHALL BE DISPOSED WHERE SHOWN ON THE DRAWINGS. SECONDARY SITE SHALL BE UTILIZED FOR CLEANER MATERIAL (FREE OF ORGANICS AND OTHER DELETERIOUS MATERIAL); MID-VALLEY OVERBURDEN SITE LOCATED AT LAT: 135.3262380°W, LON: 57.1251192°N.



CONTROL POINTS				
NUMBER	NORTHING	EASTING	ELEVATION	NOTE
1	5,000.000	10,000.000	500.00	
2	4,998.474	9,978.173	503.32	
3	5,009.293	10,332.879	483.54	
4	5,006.909	10,558.042	491.16	

**NOTE:**  
SITE SURVEY USED IS BASED ON AN ARBITRARY COORDINATE SYSTEM

**SITE PLAN OVERVIEW**  
SCALE: 1" = 80'





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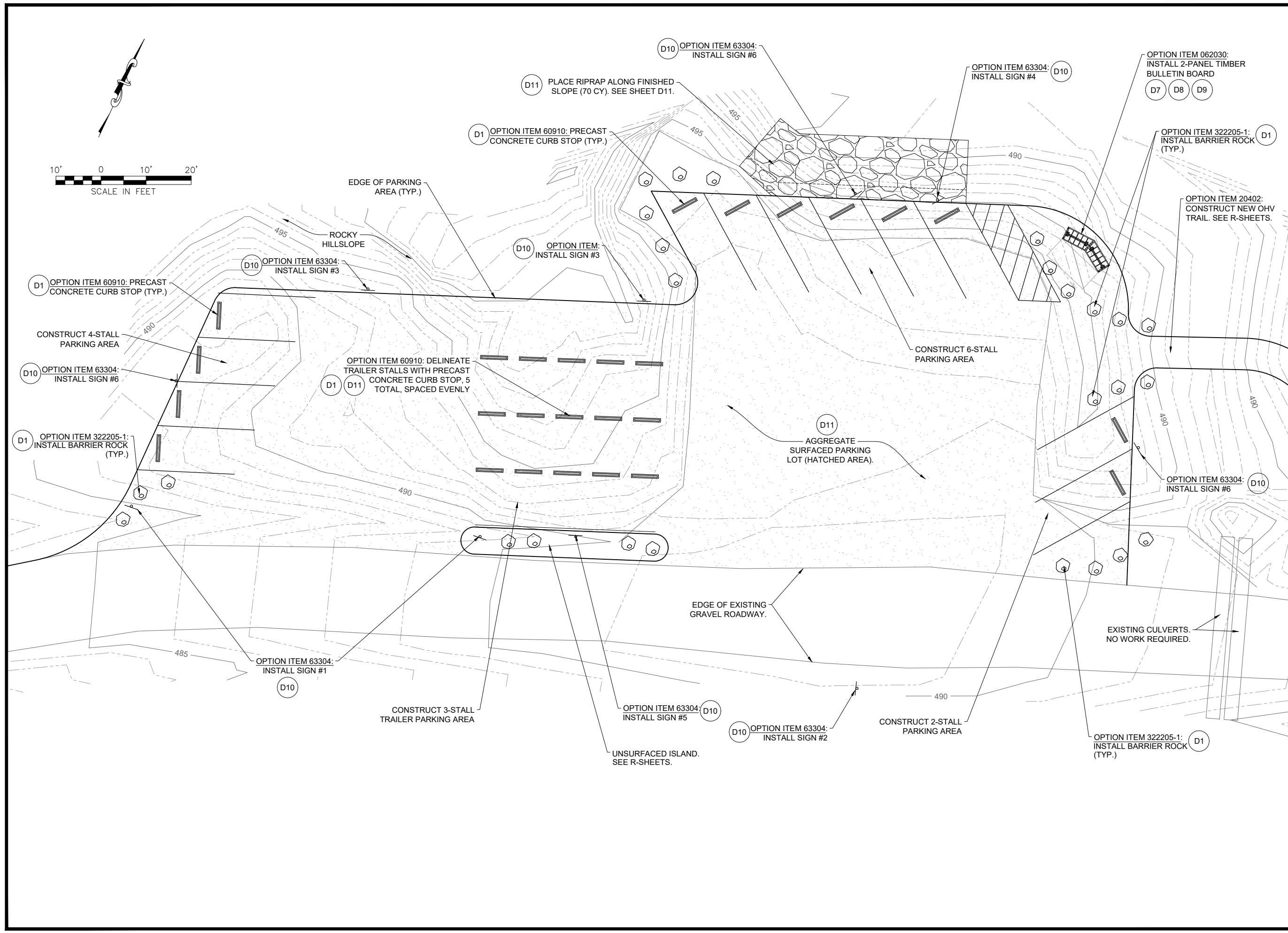
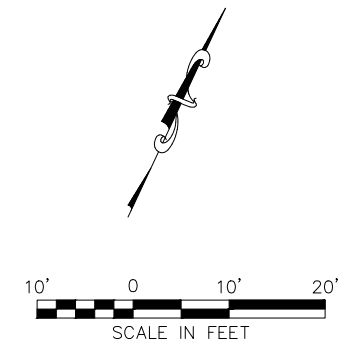
PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

TONGASS NATIONAL FOREST

SITKA RANGER DISTRICT

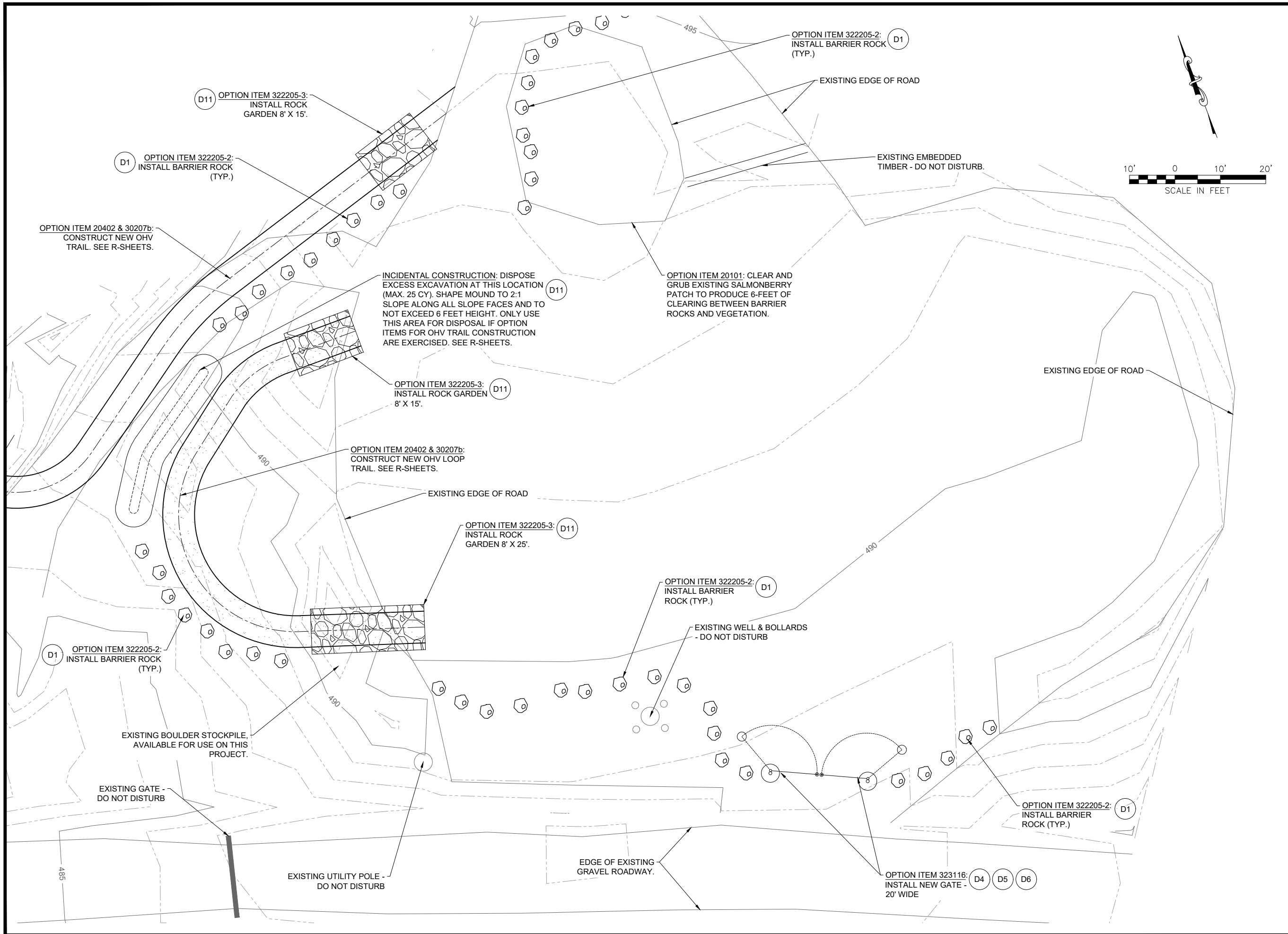
DRAWING TITLE  
**SITE PLAN - NEW TRAILHEAD**

DATE 12/2/2022	ARCHIVE NO.
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>S2</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	SHEET 04 OF 20
PROJECT NO. 22-ENG-1005-83	



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PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE  
**SITE PLAN - NEW OHV PLAYGROUND**

DATE 12/2/2022	ARCHIVE NO.
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>S3</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 05 OF 20



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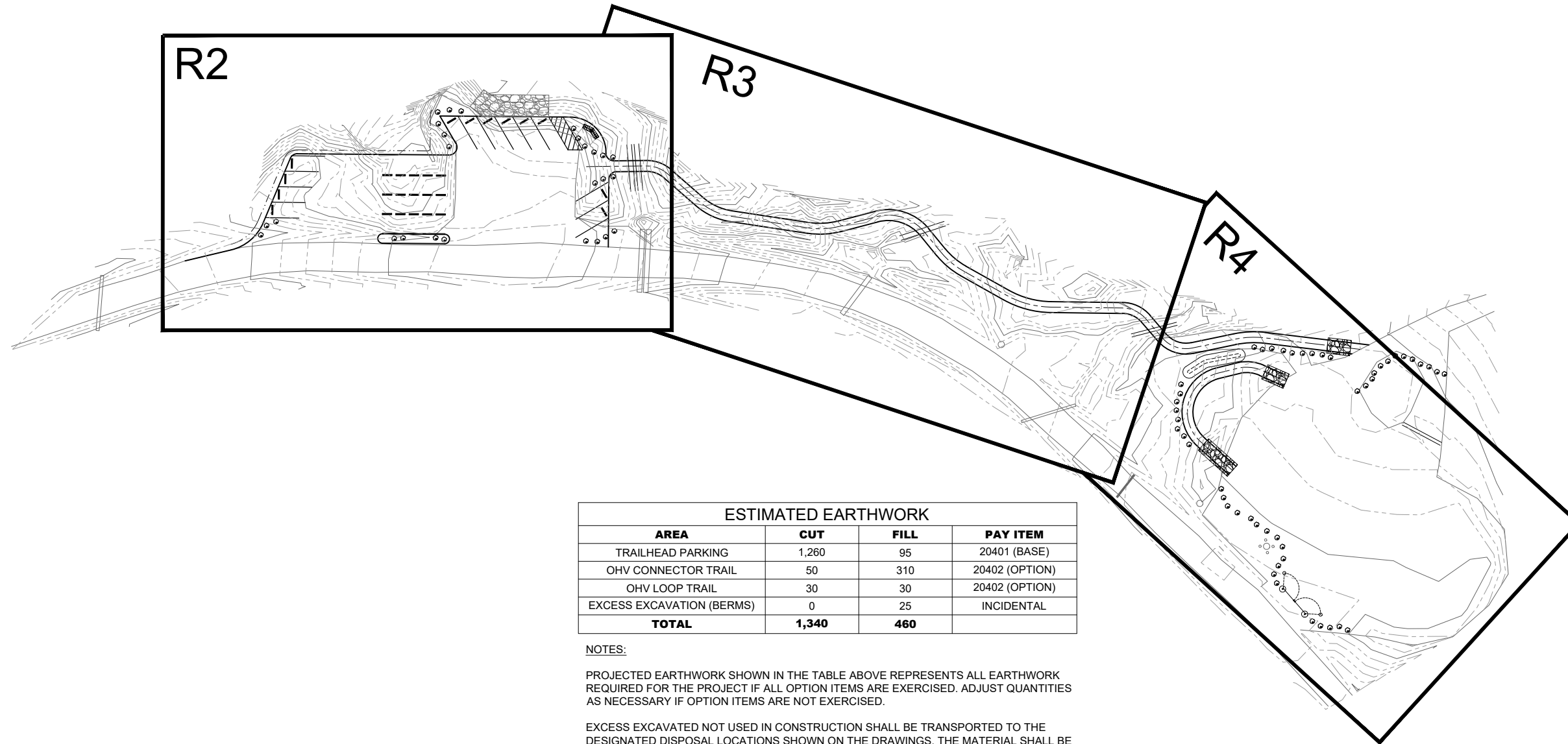
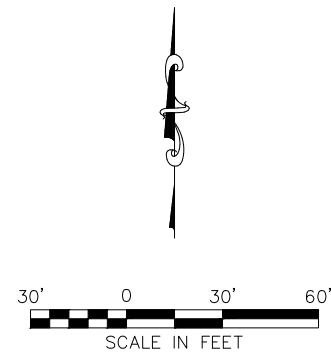
PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE  
**ROADWAY OVERVIEW**

DATE 12/6/2022	ARCHIVE NO.
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>R1</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 06 OF 20



ESTIMATED EARTHWORK			
AREA	CUT	FILL	PAY ITEM
TRAILHEAD PARKING	1,260	95	20401 (BASE)
OHV CONNECTOR TRAIL	50	310	20402 (OPTION)
OHV LOOP TRAIL	30	30	20402 (OPTION)
EXCESS EXCAVATION (BERMS)	0	25	INCIDENTAL
<b>TOTAL</b>	<b>1,340</b>	<b>460</b>	

NOTES:

PROJECTED EARTHWORK SHOWN IN THE TABLE ABOVE REPRESENTS ALL EARTHWORK REQUIRED FOR THE PROJECT IF ALL OPTION ITEMS ARE EXERCISED. ADJUST QUANTITIES AS NECESSARY IF OPTION ITEMS ARE NOT EXERCISED.

EXCESS EXCAVATED NOT USED IN CONSTRUCTION SHALL BE TRANSPORTED TO THE DESIGNATED DISPOSAL LOCATIONS SHOWN ON THE DRAWINGS. THE MATERIAL SHALL BE USED SHAPED INTO EARTH MOUNDS, AND IS CONSIDERED "INCIDENTAL CONSTRUCTION" TO THE PAY ITEMS LISTED IN THE SCHEDULE OF ITEMS.

BACKFILL FOR TRAILHEAD PARKING AREA (NOTED AS "FILL") SHALL BE CONSIDERED "INCIDENTAL CONSTRUCTION" TO PAY ITEM 20401.

ROCK BLASTING MAY BE PROPOSED IF DEEMED NECESSARY TO CONSTRUCT THE NEW TRAILHEAD PARKING LOT. PROVIDE BLASTING PLAN IN ACCORDANCE TO FP-14 SECTION 205. ROCK BLASTING SHALL BE CONSIDERED "INCIDENTAL CONSTRUCTION" TO THE PAY ITEMS LISTED IN THE SCHEDULE OF ITEMS.

**ROADWAY OVERVIEW**  
SCALE: 1" = 60'



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PROJECT NAME

**STARRIGAVAN  
TRAILHEAD**

**TONGASS NATIONAL  
FOREST**

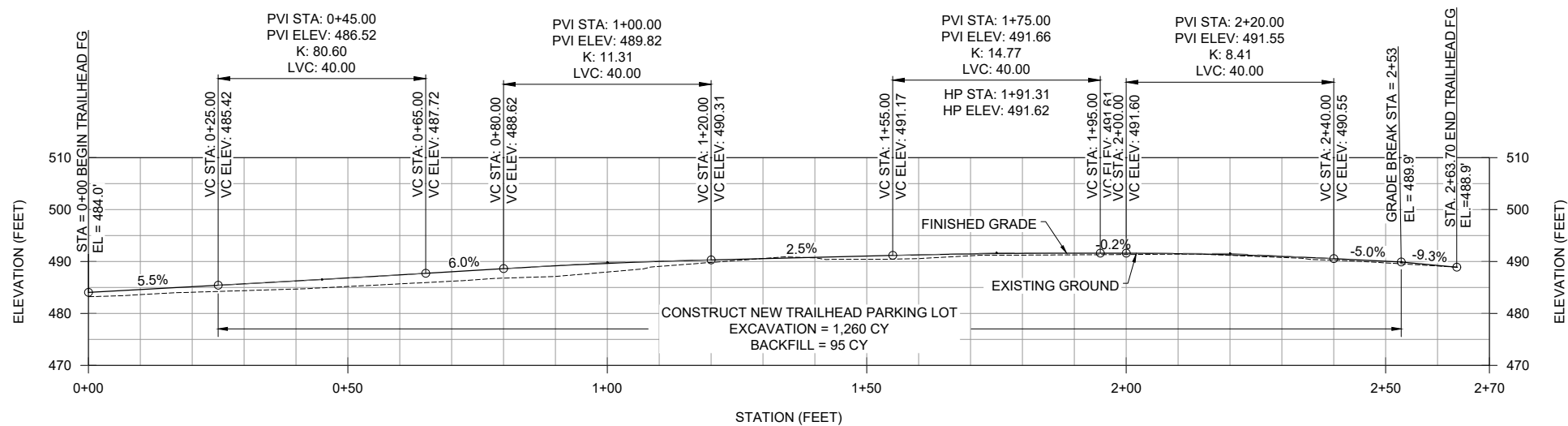
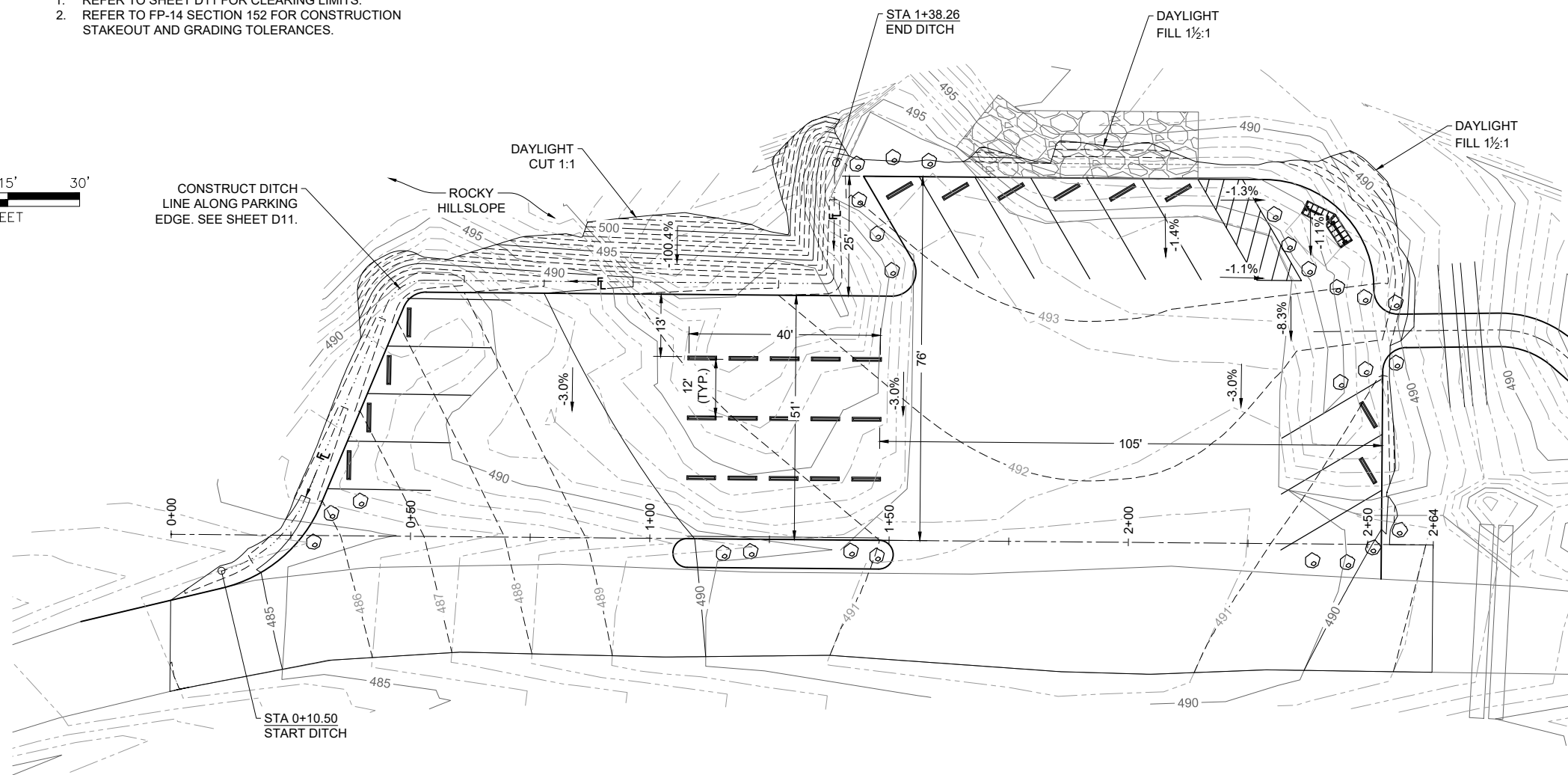
SITKA RANGER DISTRICT

DRAWING TITLE

**TRAILHEAD PARKING  
PLAN AND PROFILE &  
GRADING PLAN**

DATE 12/6/2022	ARCHIVE NO.
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>R2</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 07 OF 20

- NOTES:
- REFER TO SHEET D11 FOR CLEARING LIMITS.
  - REFER TO FP-14 SECTION 152 FOR CONSTRUCTION STAKEOUT AND GRADING TOLERANCES.



**TRAILHEAD PARKING PROFILE**  
HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 30'



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PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

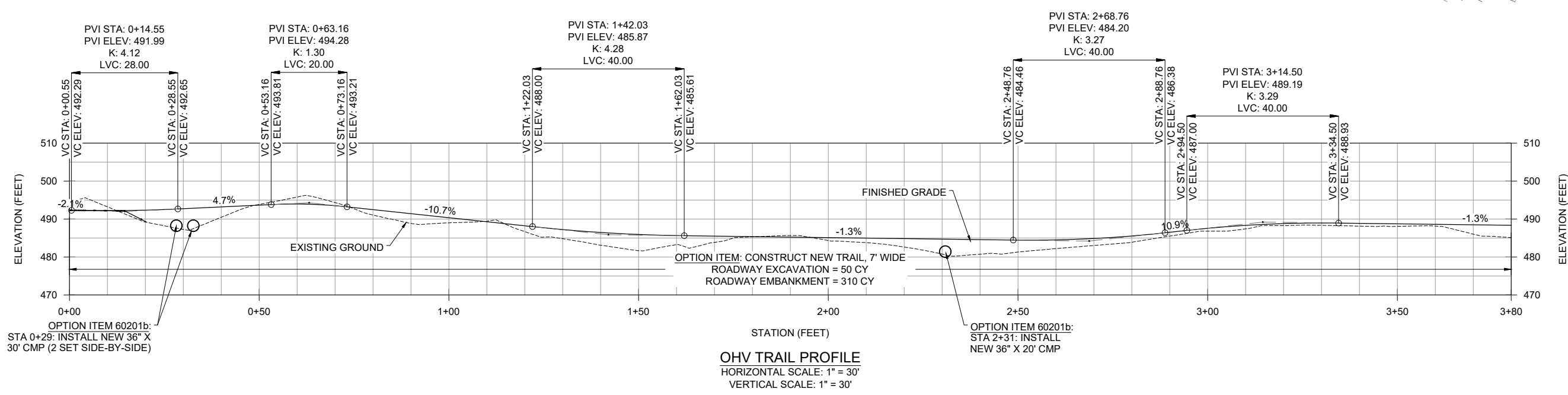
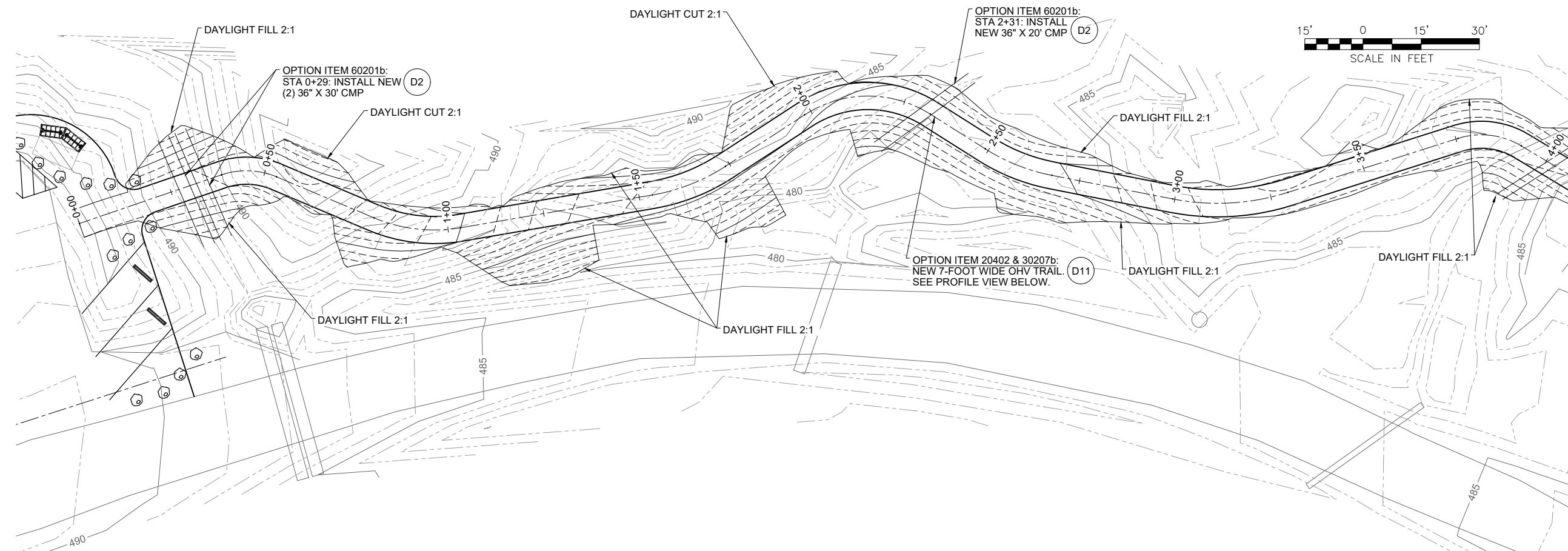
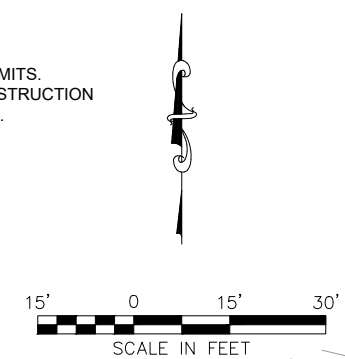
**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE  
**OHV TRAIL PLAN AND PROFILE**

DATE 12/6/2022	ARCHIVE NO.
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>R3</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 08 OF 20

- NOTES:
- REFER TO SHEET D11 FOR CLEARING LIMITS.
  - REFER TO FP-14 SECTION 152 FOR CONSTRUCTION STAKEOUT AND GRADING TOLERANCES.



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- NOTES:
- REFER TO SHEET D11 FOR CLEARING LIMITS.
  - REFER TO FP-14 SECTION 152 FOR CONSTRUCTION STAKEOUT AND GRADING TOLERANCES.



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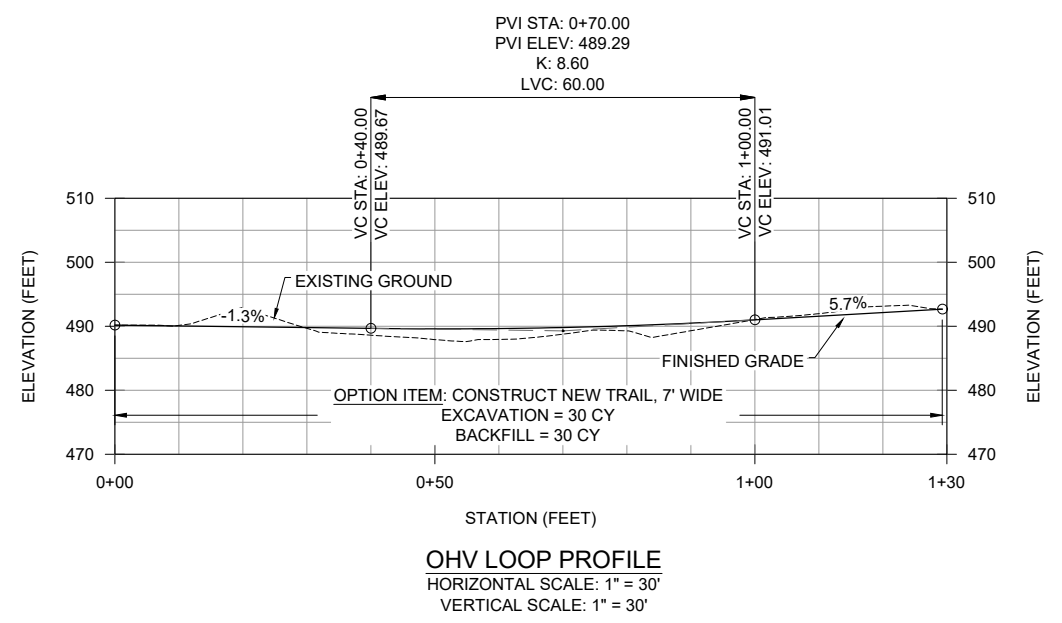
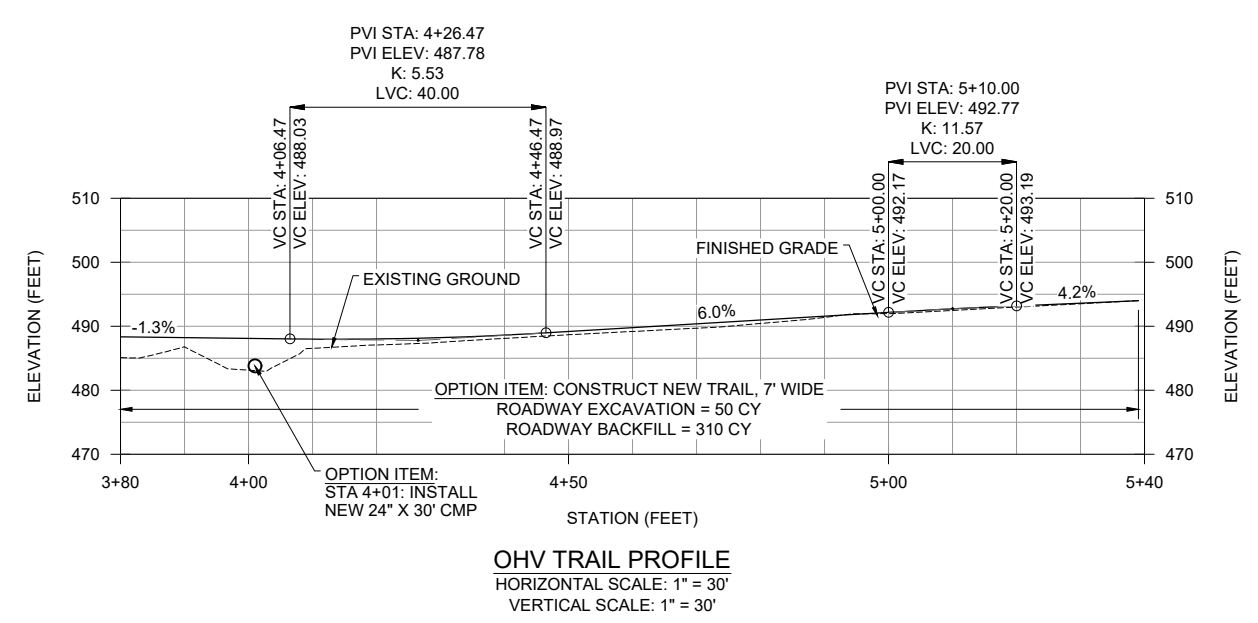
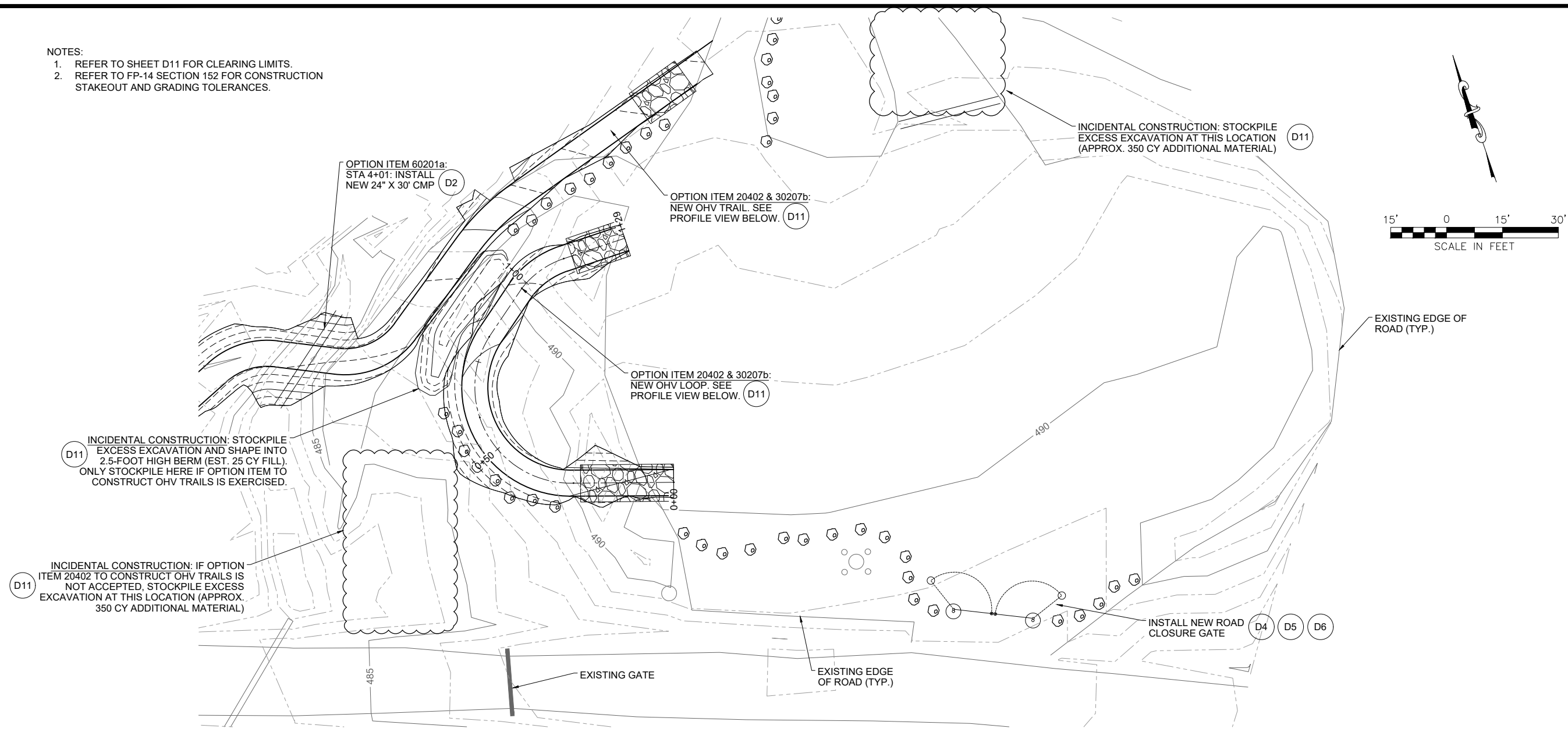
PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE  
**OHV TRAILS PLAN AND PROFILE & OHV PLAYGROUND GRADING PLAN**

DATE 12/6/2022	ARCHIVE NO.
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>R4</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 09 OF 20



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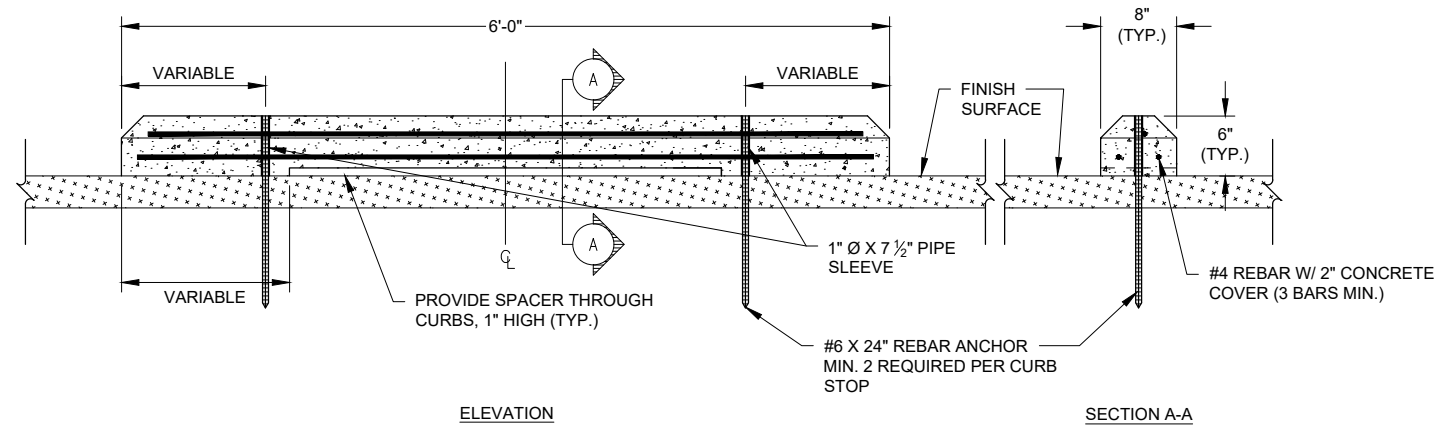
PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

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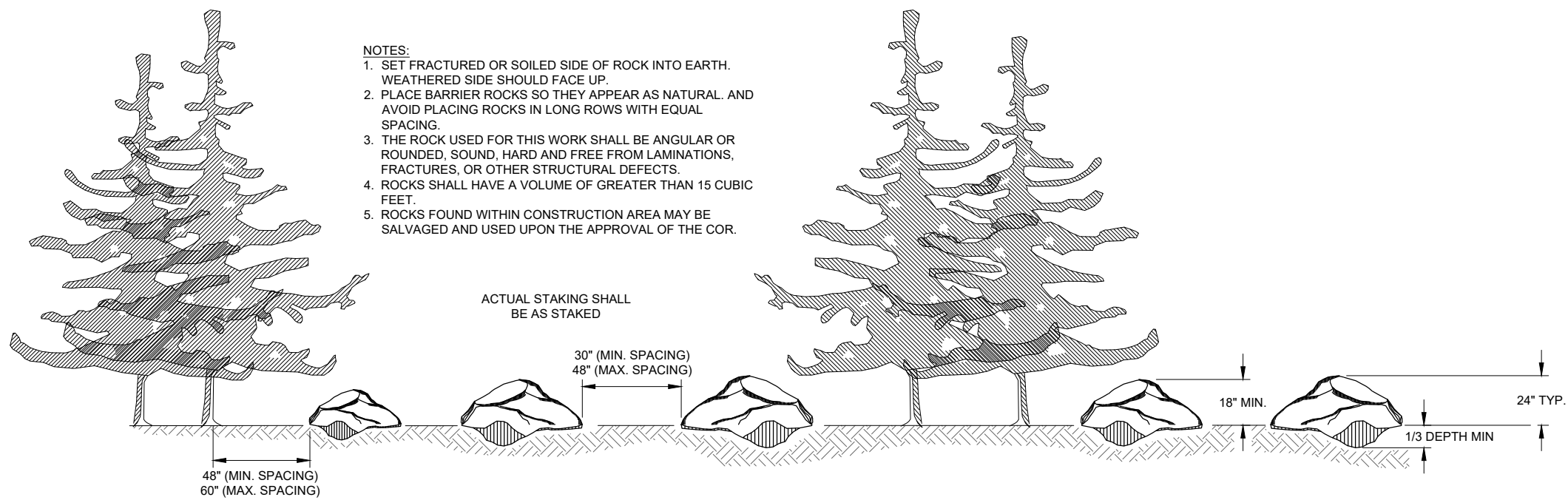
DRAWING TITLE  
**BARRIER ROCK AND CURB STOP DETAILS**

DATE 12/8/2022	ARCHIVE NO. Barrier_CurbStops.dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D1</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 10 OF 20



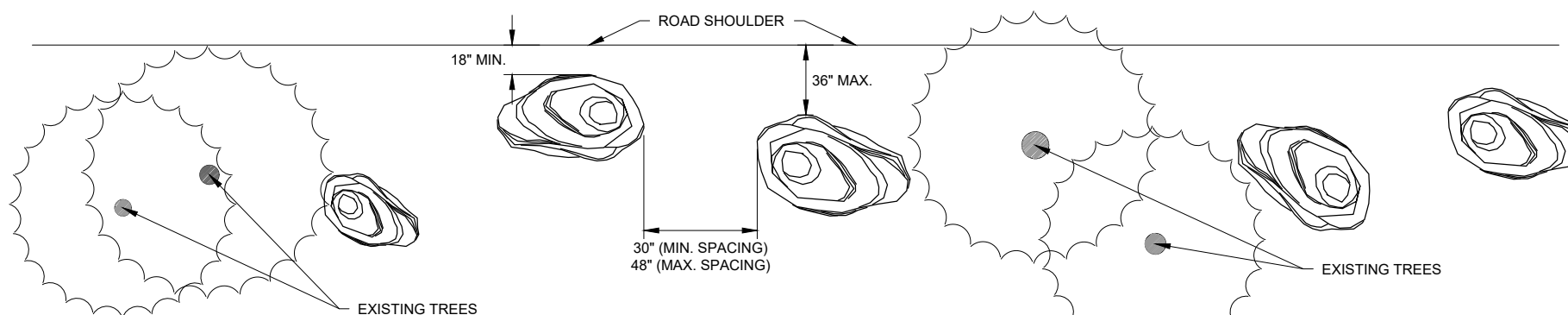
ELEVATION SECTION A-A

**6' PRECAST CONCRETE CURB STOP**  
NOT TO SCALE



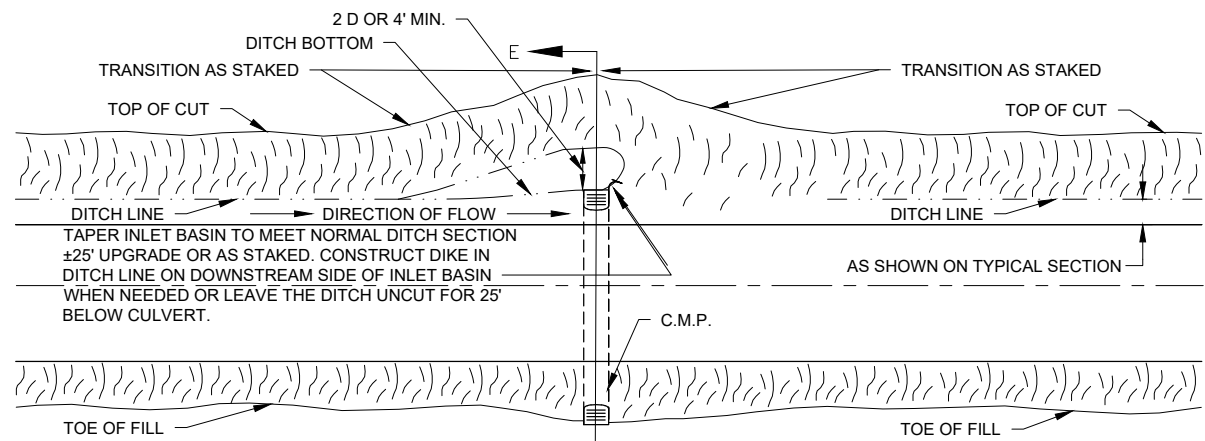
- NOTES:
1. SET FRACTURED OR SOILED SIDE OF ROCK INTO EARTH. WEATHERED SIDE SHOULD FACE UP.
  2. PLACE BARRIER ROCKS SO THEY APPEAR AS NATURAL. AND AVOID PLACING ROCKS IN LONG ROWS WITH EQUAL SPACING.
  3. THE ROCK USED FOR THIS WORK SHALL BE ANGULAR OR ROUNDED, SOUND, HARD AND FREE FROM LAMINATIONS, FRACTURES, OR OTHER STRUCTURAL DEFECTS.
  4. ROCKS SHALL HAVE A VOLUME OF GREATER THAN 15 CUBIC FEET.
  5. ROCKS FOUND WITHIN CONSTRUCTION AREA MAY BE SALVAGED AND USED UPON THE APPROVAL OF THE COR.

ACTUAL STAKING SHALL BE AS STAKED

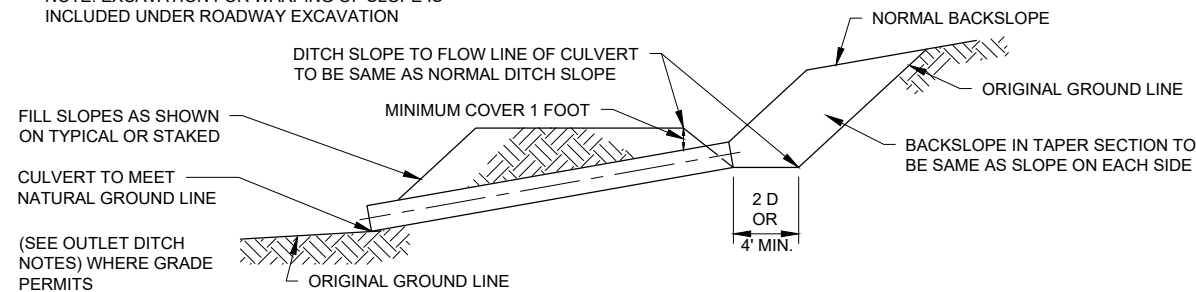


**BARRIER ROCK DETAILS**  
NOT TO SCALE

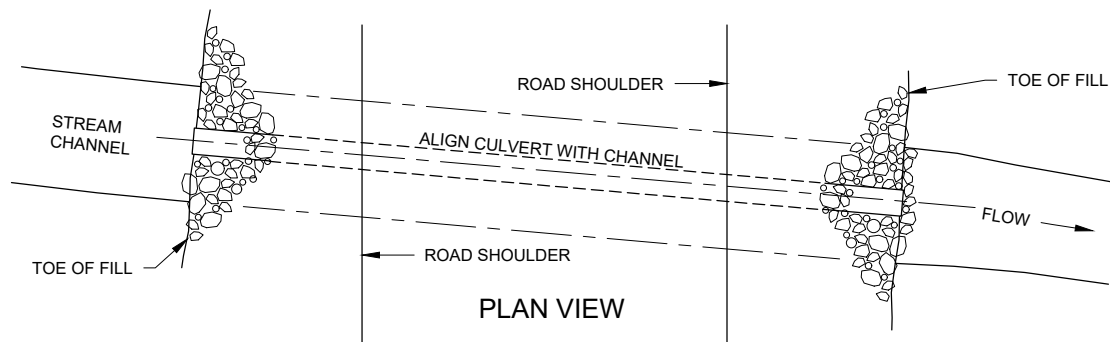
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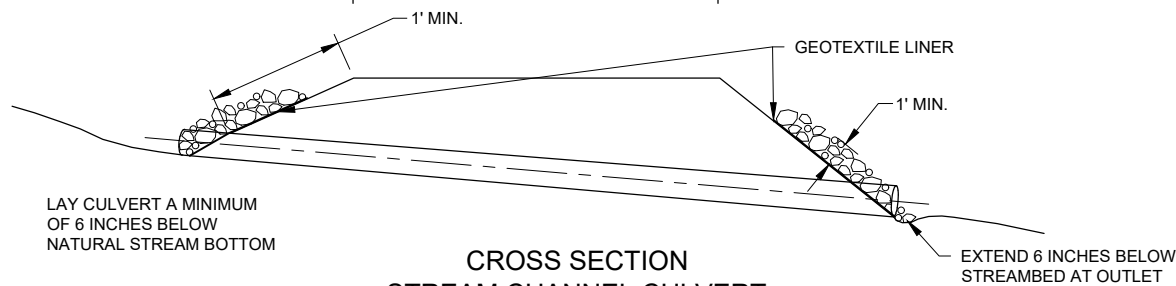
NOTE: EXCAVATION FOR WARPING OF SLOPE IS INCLUDED UNDER ROADWAY EXCAVATION



SECTION E-E  
TYPICAL CULVERT INSTALLATION



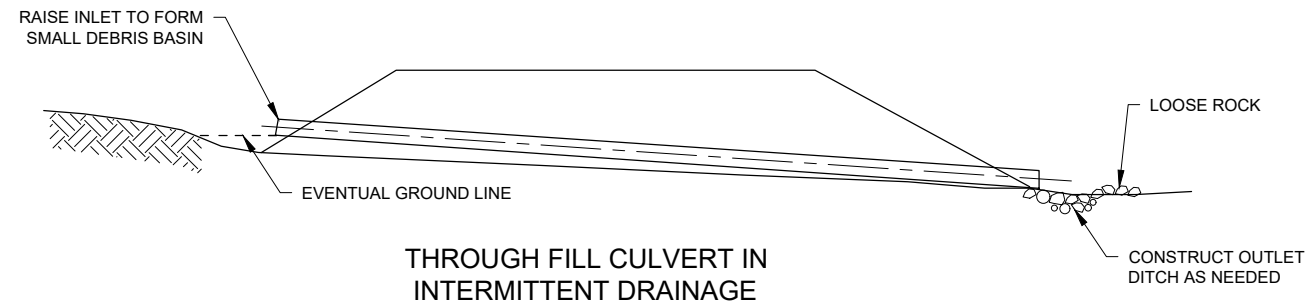
PLAN VIEW



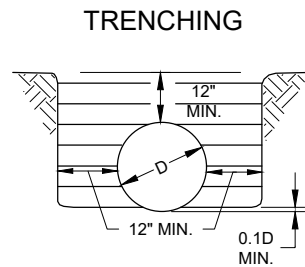
CROSS SECTION  
STREAM CHANNEL CULVERT



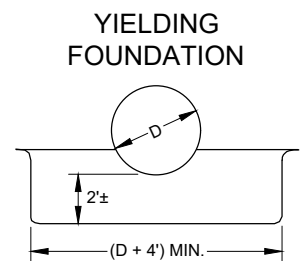
LOOSE ROCK RIPRAP USED AS SLOPE PROTECTION



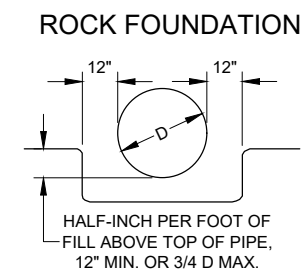
THROUGH FILL CULVERT IN  
INTERMITTENT DRAINAGE



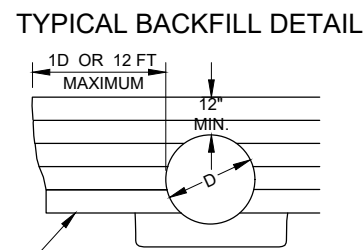
TRENCHING



YIELDING  
FOUNDATION

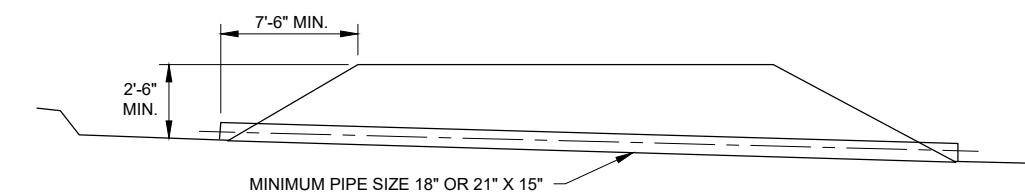


ROCK FOUNDATION

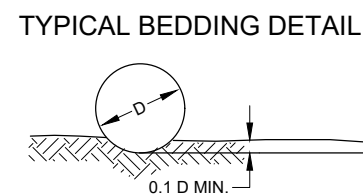


TYPICAL BACKFILL DETAIL

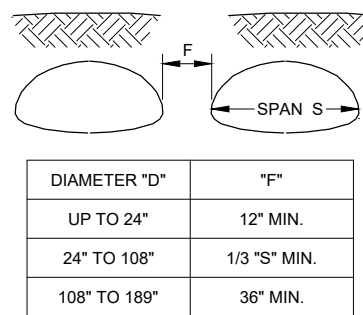
BEDDING SHALL MEET FP-14 SECTION 704.02 & 209.09. UNIFORMLY COMPACTED, AND SHAPED TO FIT THE BOTTOM OF THE PIPE.



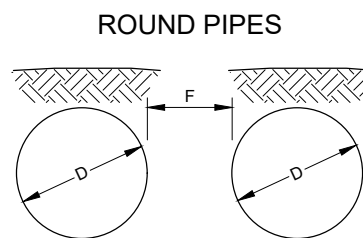
FLAT DITCH SECTION



TYPICAL BEDDING DETAIL



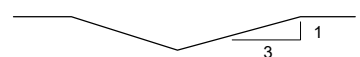
PIPE-ARCH



ROUND PIPES

DIAMETER "D"	"F"
UP TO 24"	12" MIN.
24" TO 72"	1/2 "D" MIN.
72" TO 108"	36" MIN.

OUTLET DITCH NOTES



OUTLET DITCH WILL BE VEE-SHAPED BOTTOM, WITH 3:1 SIDE SLOPES. TOPS OF SLOPE WILL BE ROUNDED TO BLEND WITH NATURAL GROUND.

GENERAL NOTES

CAMBER: PIPES SHALL BE CAMBERED AS NECESSARY TO COMPENSATE FOR ANY ANTICIPATED SETTLEMENT IN THE FOUNDATION OR BED. NORMALLY, CAMBER IS 1% OF THE PIPE LENGTH BUT SHALL NOT EXCEED 3/4 DIAMETER OF THE PIPE. CAMBER SHALL BE ON A PARABOLIC CURVE, WITH NO POINT ALONG THE INVERT BEING HIGHER THAN THE INVERT OF THE INLET.

FILL: A MINIMUM OF 1'-0" OF COVER SHALL BE REQUIRED OVER GALVANIZED STEEL PIPE. A MINIMUM FLOW GRADE OF 2% WILL BE USED IN ANY INSTALLATION, PREFERRED FLOW GRADE OF 8% WILL BE USED WHERE POSSIBLE.

TREATMENT OF DAMAGED SPELTER: THE DAMAGED OR CORRODED ENDS OF EXISTING METAL PIPE TO BE EXTENDED, SHALL BE REMOVED. IF THE DAMAGED END IS FLAME CUT, THE BURNED SPELTER ON THE GALVANIZED PIPE SHALL BE WIRE BRUSHED TO CLEAN METAL, AND THE AREA SHALL BE PAINTED WITH TWO COATS OF PAINT, HIGH IN ZINC CONTENT, FOR REPAIR OF THE GALVANIZED SURFACES.

CULVERT SCHEDULE

LOCATION	SIZE & LENGTH
NEW OHV CONNECTOR STA 0+29	(2) 36" X 30"
NEW OHV CONNECTOR STA 2+31	36" X 30'
NEW OHV CONNECTOR STA 4+01	24" X 30'



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PROJECT NAME

**STARRIGAVAN  
TRAILHEAD**

**TONGASS NATIONAL  
FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE

**CORRUGATED METAL  
PIPE CULVERT DETAILS**

DATE	ARCHIVE NO.	DRAWING SHEET NO.
12/8/2022	Culvert_cmp.dwg	<b>D2</b>
DESIGNER M. ALANIZ		
DRAWN M. ALANIZ		
CHECKED D. KIMBALL		
PROJECT NO. 22-ENG-1005-83		SHEET 11 OF 20





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PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

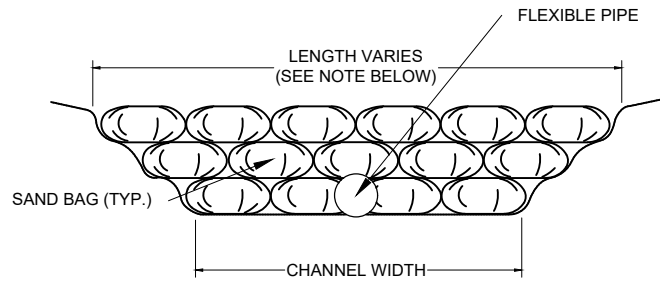
SITKA RANGER DISTRICT

DRAWING TITLE  
**DEWATERING PLAN**

DATE 12/8/2022	ARCHIVE NO. dewatering.dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D3</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	SHEET 12 OF 20
PROJECT NO. 22-ENG-1005-83	

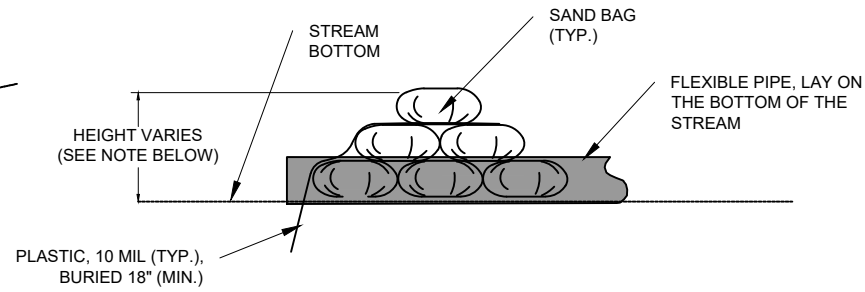
**DEWATERING NOTES:**

1. CONTRACTOR SHALL IMPLEMENT A DEWATERING PLAN, IN ACCORDANCE TO THE EXAMPLE DEWATERING AND SEDIMENT CONTROL PLAN SHEET PROVIDED. THE FINAL PLAN MAY VARY IN ACCORDANCE TO EXISTING SITE CONDITIONS AT THE TIME OF WORK.
2. CONTRACTOR SHALL SUBMIT A DEWATERING PLAN PRIOR TO THE START OF WORK. THE PLAN SHALL CALL OUT MATERIALS, ANTICIPATED FLOWS AND PUMP AND PIPE SIZES, SIZE OF TEMPORARY DAMS, AND POSITIONING OF DEWATERING APPARATUS. THE PLAN SHALL BE APPROVED BY THE CONTRACTING OFFICER PRIOR TO THE START OF WORK, AND NO WORK SHALL COMMENCE ONSITE WITHOUT AN APPROVED DEWATERING PLAN.
3. DEWATERING PLAN SHALL COMPLY WITH ALL CLEAN WATER REGULATIONS, AND STATE AND LOCAL BEST MANAGEMENT PRACTICES.
4. REMOVE AND DISPOSE ALL TEMPORARY DAMS, AND OTHER MATERIALS FROM THE SITE AFTER ALL WORK IS COMPLETED AND ACCEPTED.



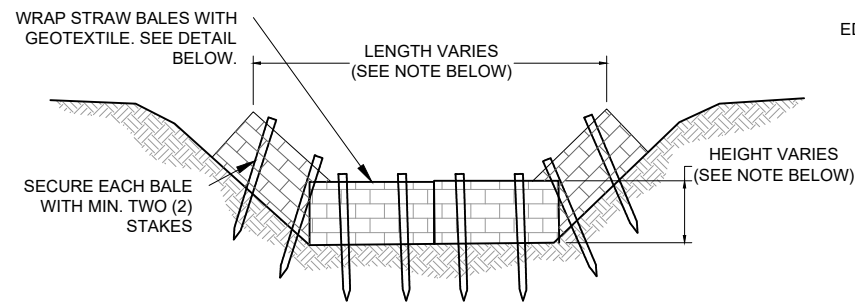
**SANDBAG ELEVATION VIEW**

N.T.S.



**SANDBAG END VIEW**

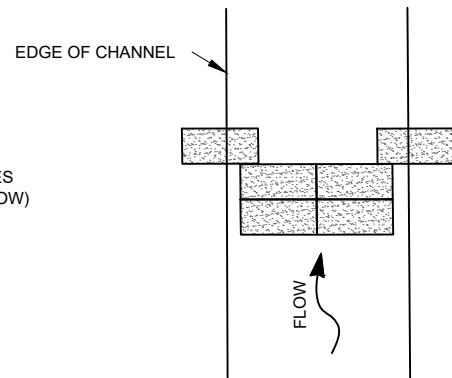
N.T.S.



**STRAW BALES SECTION DETAIL**

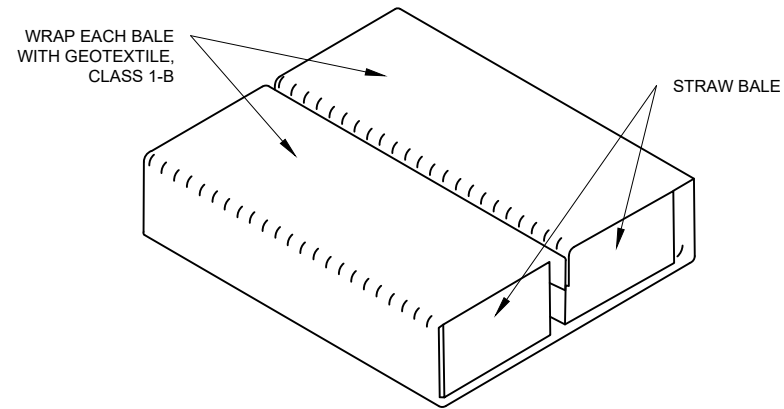
N.T.S.

NOTE: ASSEMBLE ALL STRAW BALES TO A HEIGHT AND LENGTH NECESSARY TO PREVENT WATER FROM SEEPING AROUND, OVER OR THROUGH THE BARRIER.



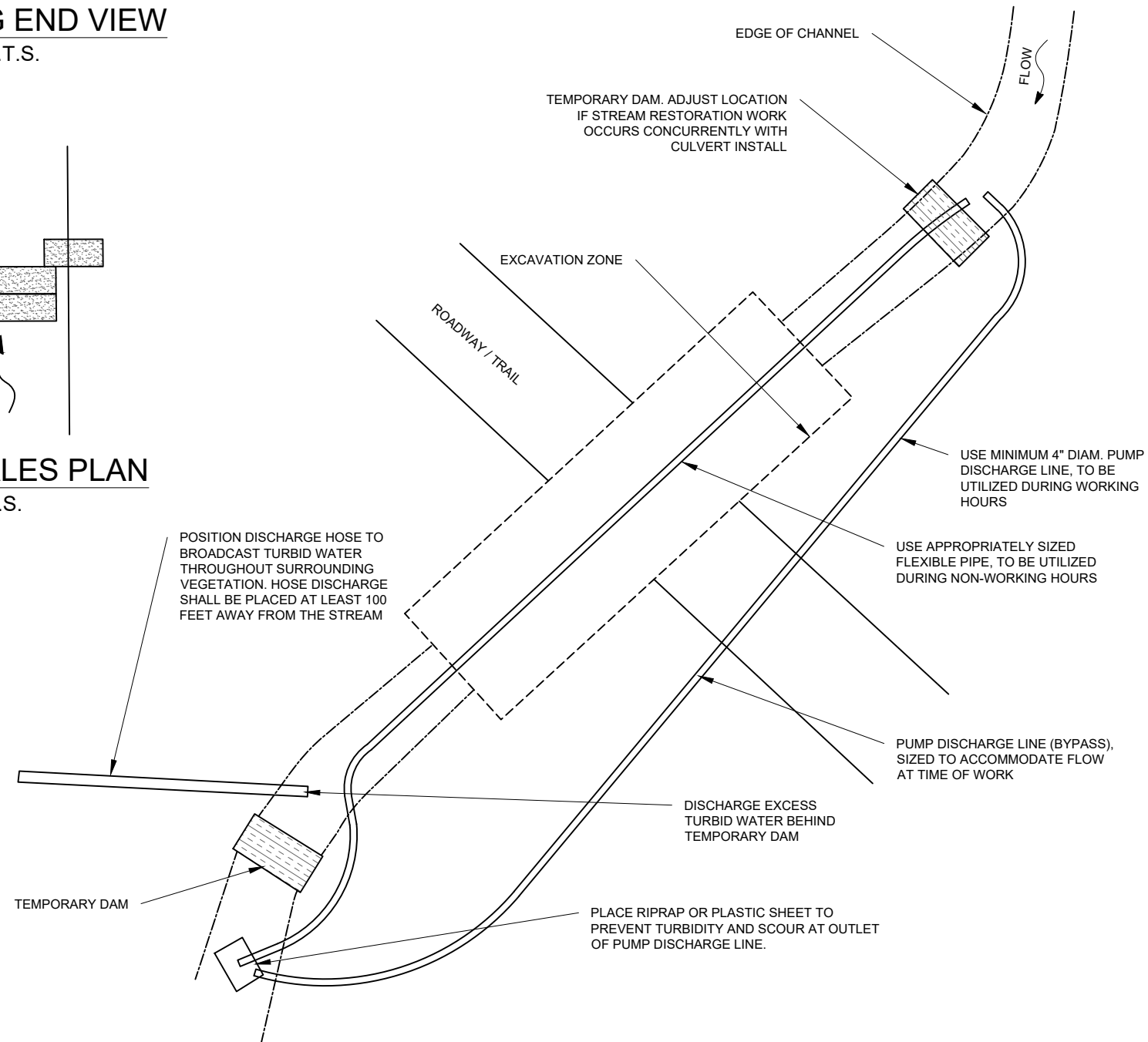
**STRAW BALES PLAN**

N.T.S.



**STRAW BALES PERSPECTIVE**

N.T.S.



**DEWATERING AND SEDIMENT CONTROL PLAN**

N.T.S.



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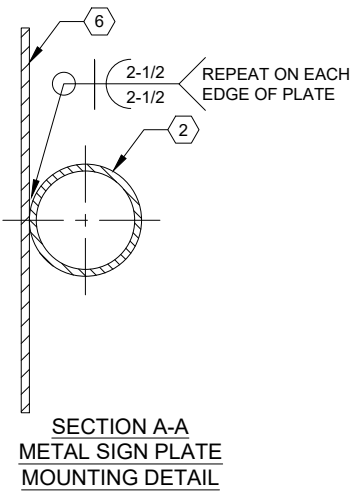
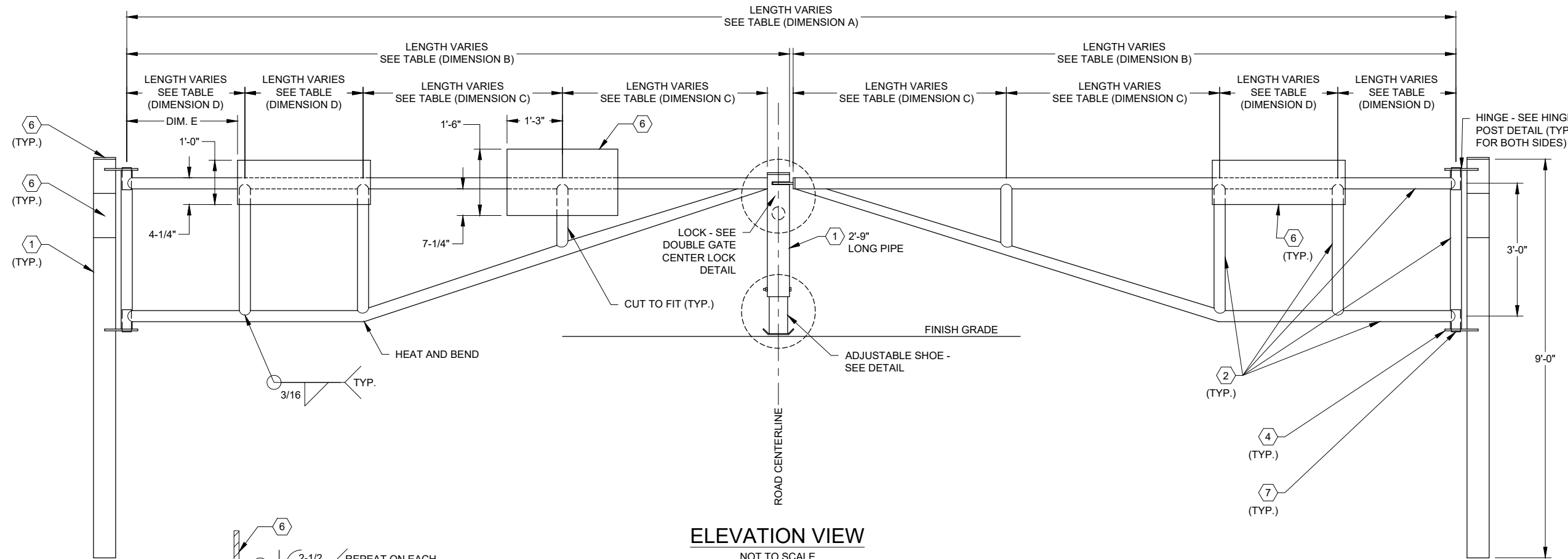
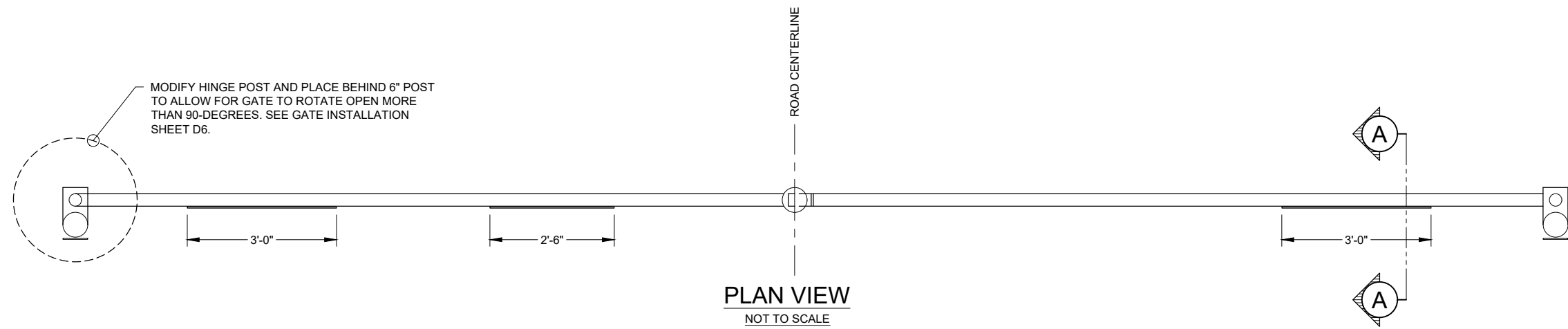
PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE  
**GATE FABRICATION DETAILS**

DATE 12/8/2022	ARCHIVE NO. Gates_Steel (double).dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D4</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 13 OF 20



- MATERIALS**
- ① 6" DIAMETER PIPE
  - ② 3" DIAMETER PIPE
  - ③ 4" DIAMETER PIPE
  - ④ 3/4" THICK PLATE
  - ⑤ 1/2" THICK PLATE
  - ⑥ 1/4" THICK PLATE
  - ⑦ 2-1/2" DIAMETER PIPE
  - ⑧ 3" PIPE CAP WITH GREASE FITTING
  - ⑨ 5" DIAMETER PIPE

**NOTES:**

1. PRIOR TO FABRICATING GATE, THE CONTRACTOR SHALL CHECK SLOPE OF ROADWAY WHERE GATE IS TO BE INSTALLED. THE GATE MUST OPEN TOWARDS MINUS GATE ON THE FINISHED ROAD SURFACE.

**DIMENSION TABLE**

DIMENSION	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
A	20'-0"	24'-0"	25'-0"	28'-0"	30'-0"
B	9'-11 1/2"	11'-11 1/2"	12'-5 1/2"	13'-11 1/2"	14'-11 1/2"
C	3'-11 3/4"	3'-8 3/4"	3'-11 3/4"	4'-4"	4'-10"
D	2'-0" (**)	2'-3"	2'-3"	2'-8"	2'-8"
E	1'-4"	1'-10 1/2"	1'-10 1/2"	2'-6"	2'-6"

3/12/23 13:36 MALANIZ C:\USERS\MALANIZ\BOX\EP\_ONESTOPSHOP\EP\_PROJECT\_AGREEMENTS\NFSR10-1005-TONGASS\22-ENG-1005-83\5\_WORKING FILES\_TRAILHEAD\REVISED CONTRACT\04\_DS\_D6\_GATES\_STEEL (DOUBLE)\_ALT1.DWG

3/12/23 13:36 MALANIZ C:\USERS\MALANIZ\BOX\EP\_ONESTOP\SHOP\EP\_PROJECT\_AGREEMENTS\NFSR10-1005-TONGASS\22-ENG-1005-8315\_WORKING\_FILES\_TRAILHEAD\REVISED CONTRACT\04\_DR\_D6\_GATES\_STEEL (DOUBLE)\_ALT1.DWG



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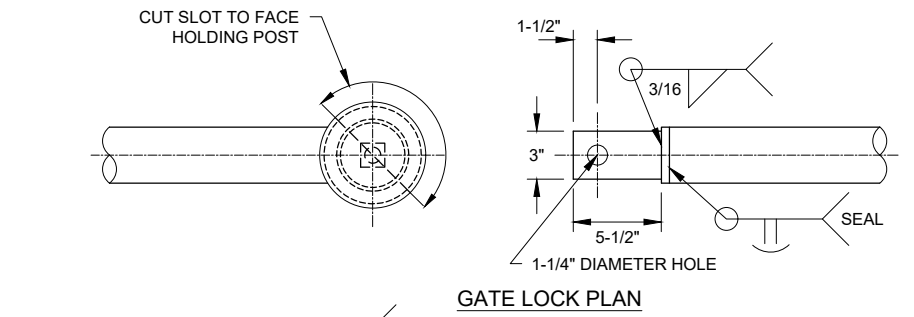
PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

TONGASS NATIONAL FOREST

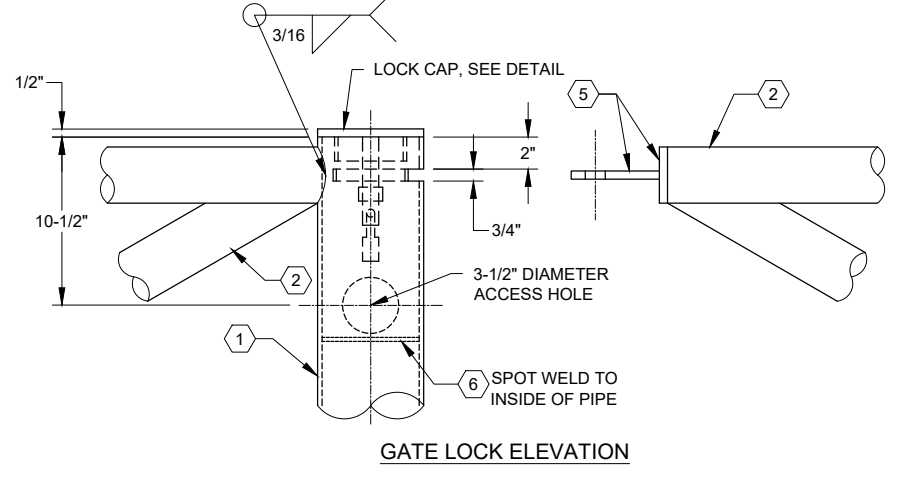
SITKA RANGER DISTRICT

DRAWING TITLE  
**GATE FABRICATION DETAILS**

DATE 12/8/2022	ARCHIVE NO. Gates_Steel (double).dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D5</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 14 OF 20

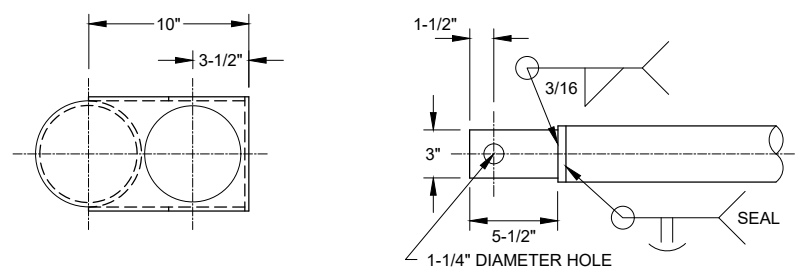


**GATE LOCK PLAN**

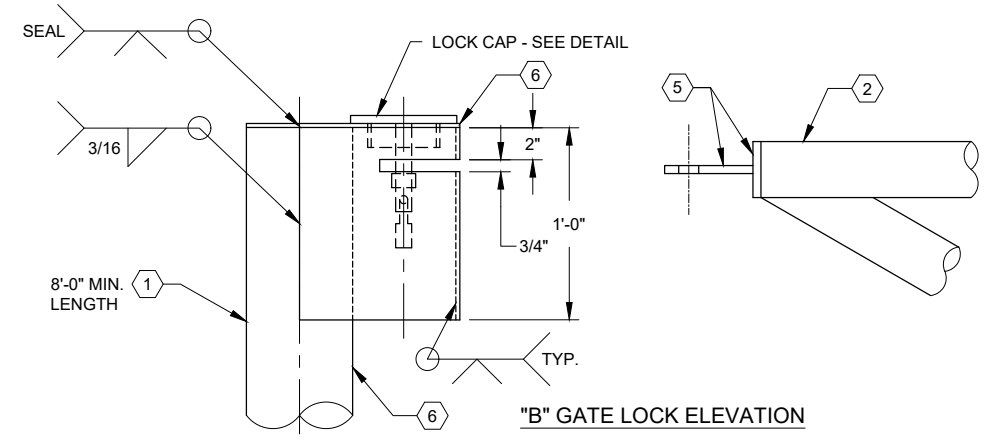


**GATE LOCK ELEVATION**

**DOUBLE GATE CENTER LOCK DETAIL**

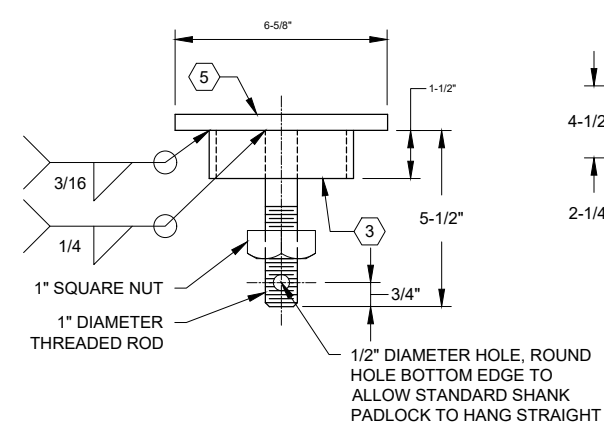


**"B" GATE LOCK PLAN**

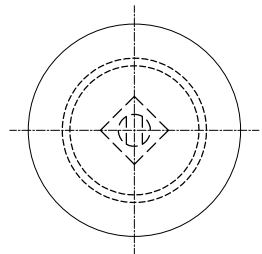


**"B" GATE LOCK ELEVATION**

**HOLDING POST "B" GATE LOCK DETAIL**

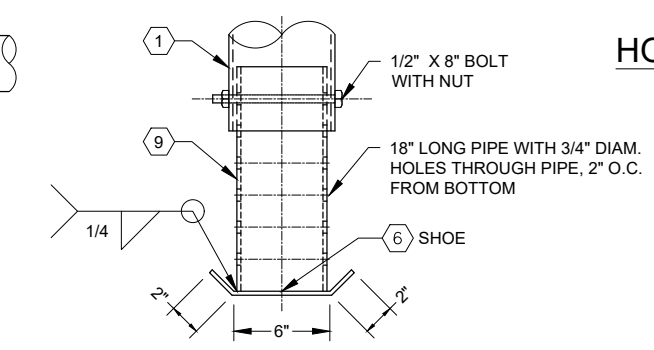


**LOCK CAP ELEVATION**

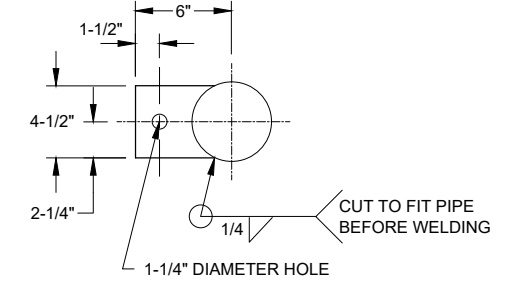


**LOCK CAP PLAN**

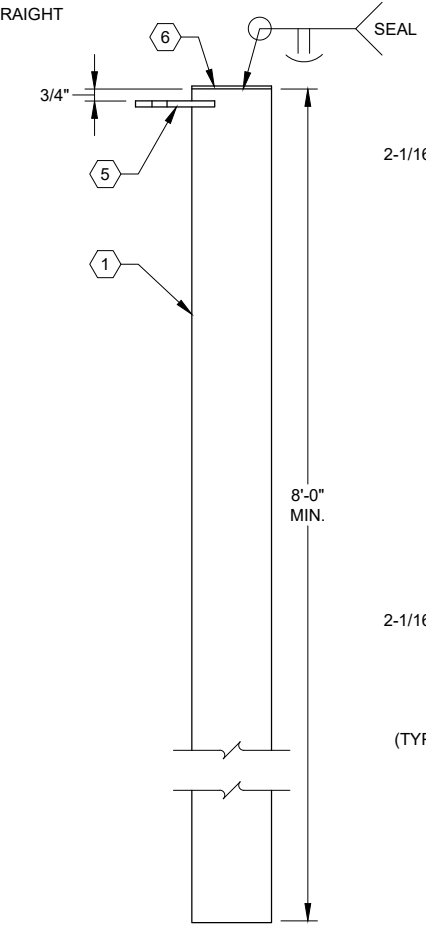
**LOCK CAP DETAIL**



**ADJUSTABLE SHOE DETAIL**

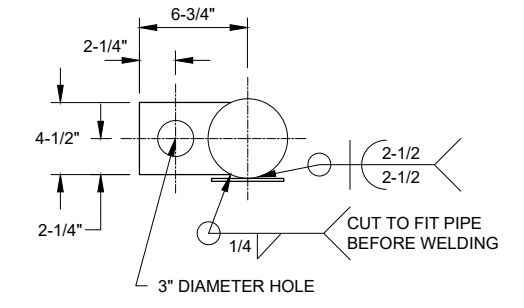


**HOLDING POST PLAN**

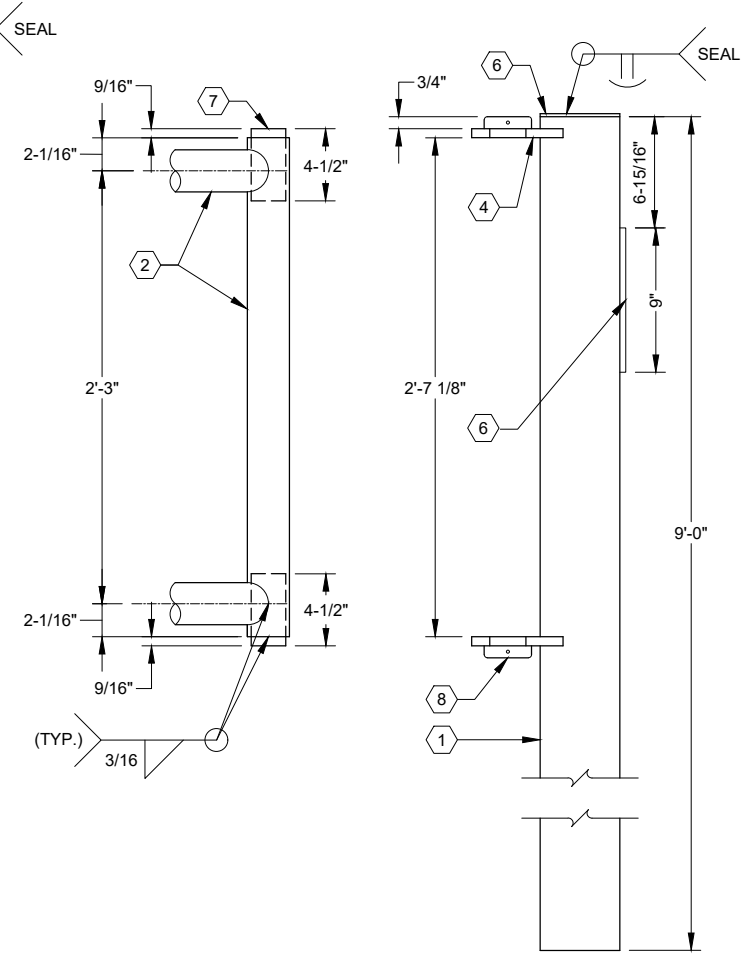


**HOLDING POST ELEVATION**

**HOLDING POST "A" DETAIL**



**HINGE POST PLAN**



**HOLDING POST ELEVATIONS**

**HINGE POST DETAIL**

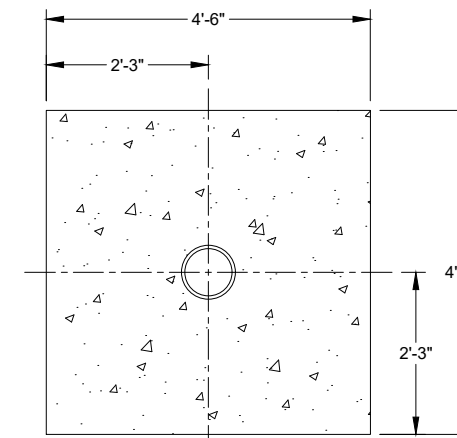
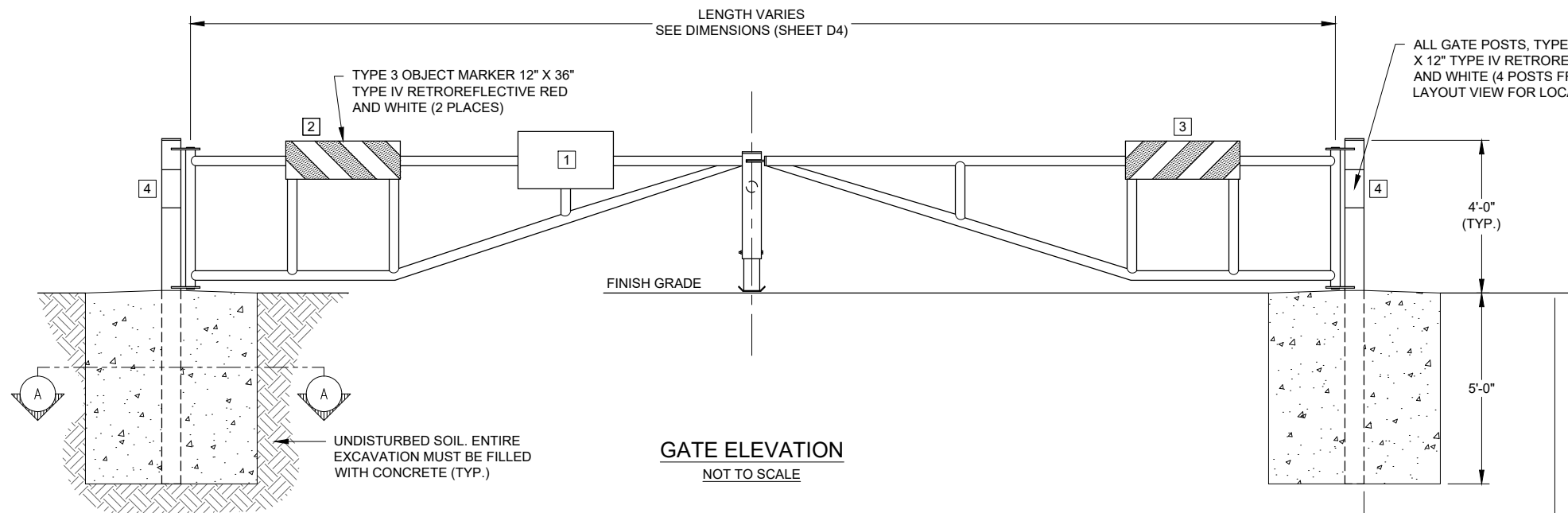
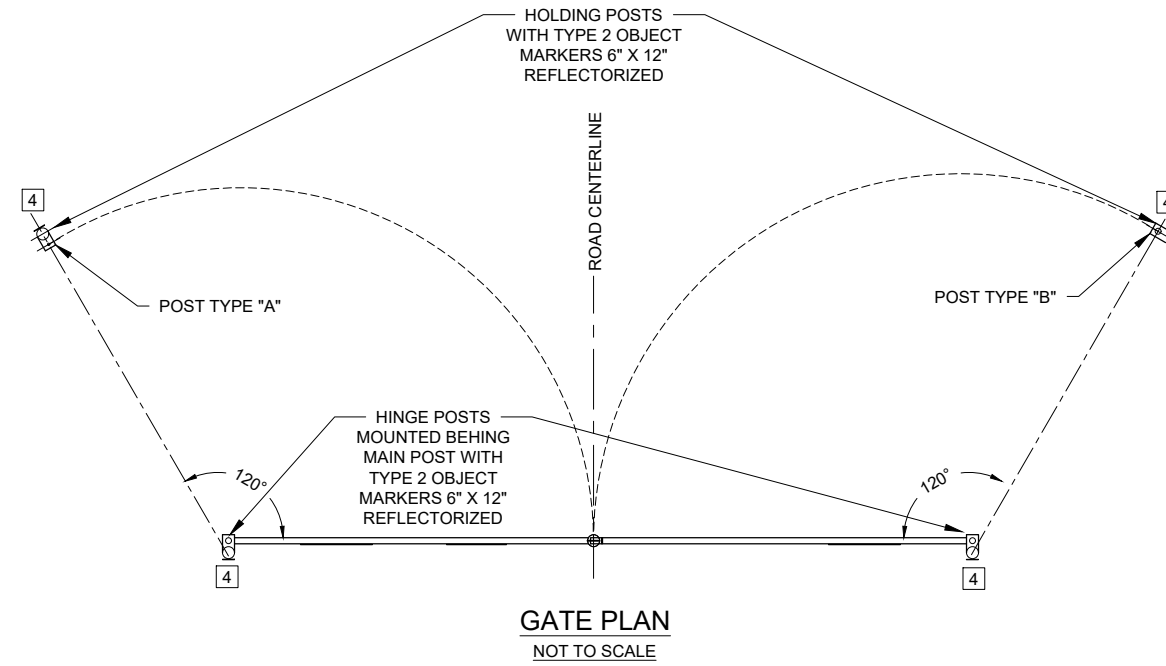
NOTE:  
1. MATERIALS LIST FOUND ON "GATE FABRICATION" SHEET.



3/31/23 13:36 MALANIZ C:\USERS\MALANIZ\BOX\EP\_ONESTOP\SHOP\PROJECT AGREEMENTS\NFSR10-1005-TONGASS\22-ENG-1005-83\5\_WORKING FILES\_TRAILHEAD\REVISED CONTRACT\D4\_DS\_D6\_GATES\_STEEL (DOUBLE)\_ALT1.DWG

- NOTES:**
- FIELD LOCATE HOLDING POSTS TO SUPPORT GATE IN OPEN POSITION.
  - ALL SIGN AND OBJECT MARKERS SHALL BE BOLTED TO STEEL BACKING PLATES.
  - IF HOLES FOR POSTS ARE OVER EXCAVATED, THE CONTRACTOR SHALL FILL THE OVER EXCAVATED HOLES WITH CONCRETE AT NO EXTRA COST TO THE FOREST SERVICE.
  - THE CONTRACTOR SHALL FURNISH AND INSTALL OBJECT MARKERS AND SIGNS. THESE SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

SIGN SCHEDULE					
SIGN	QTY	DESCRIPTION	SIZE	MATERIAL	REMARKS
1	1	FRD-1-4 BLACK ON WHITE	AS REQ.	ALUMINUM	ROAD CLOSED
2	1	BM-L	36 X 12	ALUMINUM	
3	1	BM-R	36 X 12	ALUMINUM	
4	8	OM2-2	6 X 12	REFLECTORIZED DECAL	



- NOTES:**
- TYPICAL FOR HINGE POSTS ONLY.
  - CONCRETE BASES FOR HOLDING POSTS "A" AND "B" SHALL BE 24" SQUARE AND 48" DEEP.
  - EXPOSED TOP PORTION OF EACH CONCRETE BASE SHALL BE SLOPED A MINIMUM OF 2% TO DRAIN AWAY FROM POST.



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PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE  
**GATE INSTALLATION DETAILS**

DATE 12/8/2022	ARCHIVE NO. Gates_Steel (double).dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D6</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 15 OF 20

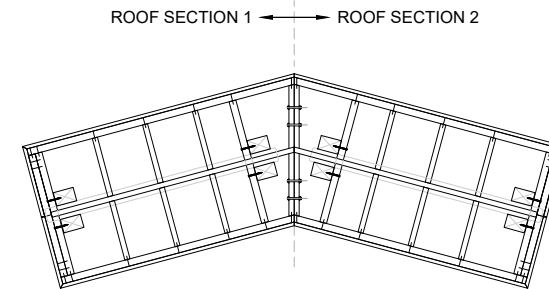
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**MATERIAL LISTS**

PART	DESCRIPTION	TWO PANEL	
		QTY.	MEASUREMENT (EA.)
KIOSK			
	POST -- 4" X 6" ROUGH CUT CEDAR.....	(8)	10'-8"
	POST BOTTOM SPACER -- 4" X 6" ROUGH CUT CEDAR.....	(4)	8"
	DEADMAN (LEFT/RIGHT) -- 4" X 6" ROUGH CUT CEDAR.....	(4)	3'-4"
	UPPER BEAM -- 4" X 6" ROUGH CUT CEDAR.....	(2)	5'-9"
	LOWER BEAM -- 4" X 6" ROUGH CUT CEDAR.....	(2)	5'-7"
	BOLT HOLE PLUG -- 1 5/16" DIAMETER DOWEL.....	(36)	1'-1/4"
	HEX BOLTS -- 1/2" X 10".....	(16)	
	HEX BOLTS -- 1/2" X 12".....	(4)	
	WASHERS -- 1/2" ZINC SAE FLAT WASHER (1-1/8" O.D.).....	(40)	
	NUTS -- 1/2" NUT.....	(20)	
	METAL BRACKET (GALV.), 12 GA.....	(2)	
PANEL			
	PANEL FRAME (UPPER / LOWER) -- 2" X 2" ROUGH CUT CEDAR.....	(8)	10'-8"
	PANEL FRAME (LEFT / RIGHT) -- 2" X 2" ROUGH CUT CEDAR.....	(8)	8"
	PANEL BACKING -- 1" X 6" TONGUE AND GROOVE (CEDAR).....	(22)	3'-4"
ROOF			
	RIDGE BEAM -- 2" X 6" TREATED (S4S).....	(2)	6'-0"
	INTERNAL RAFTERS -- 2" X 4" TREATED (S4S).....	(12)	1'-9"
	EXTERNAL RAFTERS -- 2" X 4" ROUGH CUT CEDAR.....	(4)	1'-9 7/8"
	CONNECTING RAFTER (FRONT) -- 2" X 4" TREATED (S4S).....	(2)	1'-10"
	CONNECTING RAFTER (BACK) -- 2" X 4" TREATED (S4S).....	(2)	1'-10"
	FASCIA (FRONT) -- 2" X 4" ROUGH CUT CEDAR.....	(2)	5'-8 7/8"
	FASCIA (BACK) -- 2" X 4" ROUGH CUT CEDAR.....	(2)	6'-7"
	FASCIA (LEFT / RIGHT) -- 2" X 4" ROUGH CUT CEDAR.....	(4)	3'-0 1/2"
	ROOF TRIM (FRONT) -- 1" X 2" ROUGH CUT CEDAR.....	(2)	5'-8 3/4"
	ROOF TRIM (BACK) -- 1" X 2" ROUGH CUT CEDAR.....	(2)	6'-8 1/4"
	ROOF TRIM (LEFT / RIGHT) -- 1" X 2" ROUGH CUT CEDAR.....	(4)	2'-1 1/4"
	RIDGE CAP (FRONT) -- 1" X 4" ROUGH CUT CEDAR.....	(2)	6'-4 1/2"
	RIDGE CAP (BACK) -- 1" X 4" ROUGH CUT CEDAR.....	(2)	6'-5 1/2"
	HEX BOLTS -- 3/8" X 5".....	(4)	
	WASHERS -- 3/8" FLAT WASHER.....	(8)	
	NUTS -- 3/8" NUT.....	(4)	
	LAG BOLTS -- 5/16" X 4-1/2".....	(16)	
	WASHERS -- 5/16" WASHERS.....	(16)	
	ROOF SHEATHING -- T1-11 SIDING.....	(2)	CUT TO FIT
	ROOFING FELT.....		CUT TO FIT
	ROOFING SHINGLES - 16".....		PLACED TO COVER ROOF

**MATERIAL NOTES**

1. RED CEDAR SHALL BE USED AS SHOWN ON ALL THE KIOSK DRAWING DETAILS, BUT ALASKA YELLOW CEDAR IS AN ACCEPTABLE SUBSTITUTE FOR THIS PROJECT.
2. ALL HARDWARE SHOWN IN THE MATERIAL LIST ABOVE SHALL BE GALVANIZED.



**GENERAL NOTES:**

1. STAIN ALL LUMBER BEFORE ASSEMBLING KIOSK.
2. TREAT LOWER 3' OF POSTS WITH WOOD PRESERVATIVE. PRESERVATIVE MAY WICK ABOUT 6" UP THE POST. APPLY SO THAT IT DOES NOT GO ABOVE THE 3' LINE.
3. MATERIALS LIST DOES NOT INCLUDE QUANTITIES FOR STAIN, PRESERVATIVE, GLUE, OR WOOD SCREWS.
4. DO NOT INSTALL THE DOWEL PLUGS ON THE BOLT HOLES IN THE SIGN POSTS DURING CONSTRUCTION. THESE PLUGS SHALL BE INSTALLED IN THE FIELD AFTER THE KIOSK IS INSTALLED IN THE GROUND.



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PROJECT NAME

**STARRIGAVAN  
TRAILHEAD**

**TONGASS NATIONAL  
FOREST**

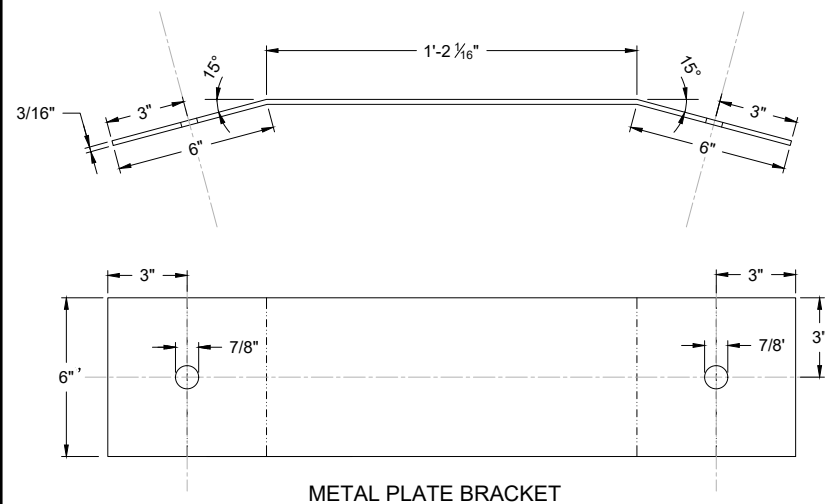
SITKA RANGER DISTRICT

DRAWING TITLE

**TWO-PANEL KIOSK  
NOTES**

DATE 12/12/2022	ARCHIVE NO. Kiosk_details.dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D7</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 16 OF 20

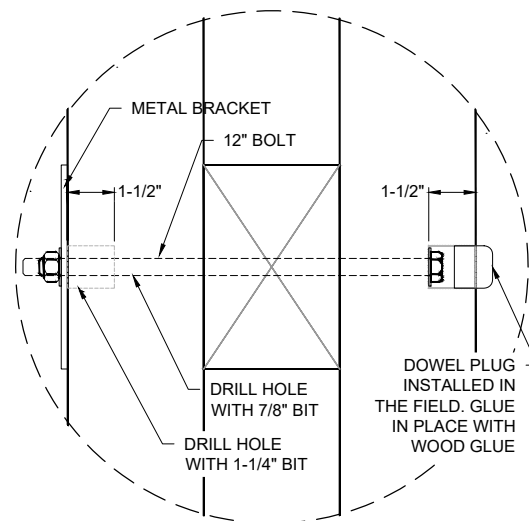
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METAL PLATE BRACKET

**BRACKET DETAILS**

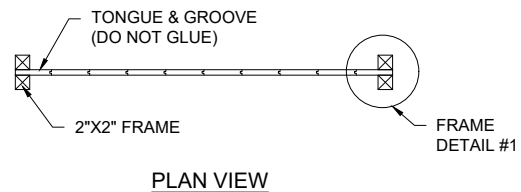
NOT TO SCALE



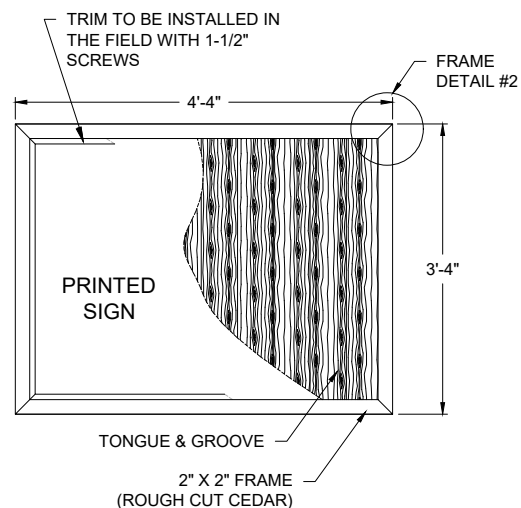
PROFILE - BRACKET ATTACHMENT

**NOTES:**

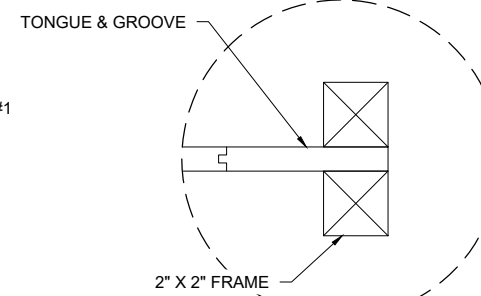
- BRACKET ATTACHES WITH 1/2" - 13 X 12" BOLTS.
- BRACKETS ARE ATTACHED ON THE BACK OF THE KIOSK ON THE TOP AND BOTTOM BOLT HOLES ON THE POSTS.
- DOWEL PLUGS FOR THE BRACKET BOLTS WILL BE PUT IN PLACE IN THE FIELD WITH WOOD GLUE.



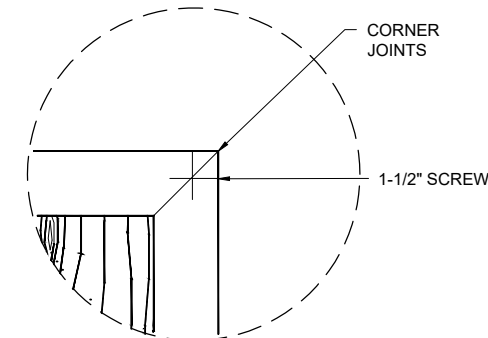
PLAN VIEW



ELEVATION



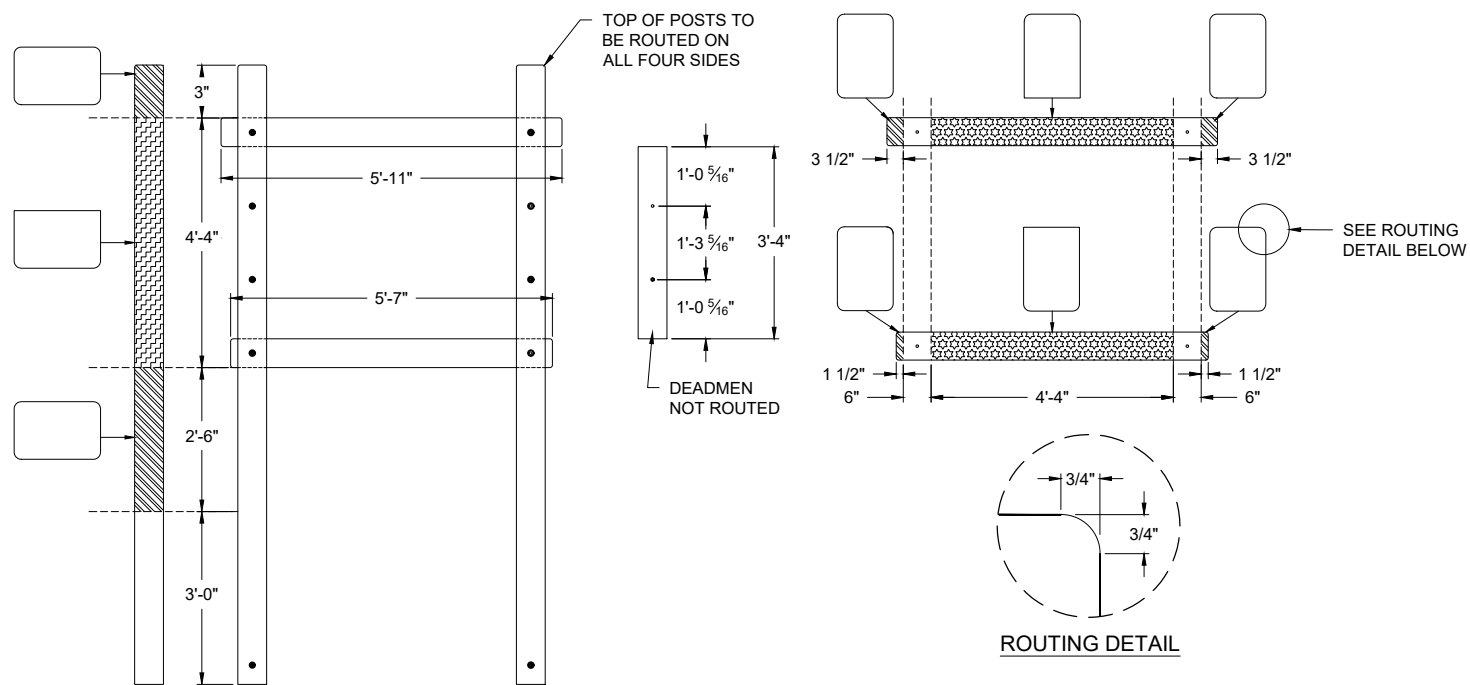
FRAME DETAIL #1



FRAME DETAIL #2

**INTERNAL FRAME PANEL DETAILS**

NOT TO SCALE



**EXTERNAL FRAME ROUTING AND DRILLING DETAILS**

NOT TO SCALE

**NOTES:**

- CONNECTING SURFACES ARE NOT ROUTED.
- DEADMEN ARE NOT ROUTED.
- ALL POSTS ARE ROUTED THE SAME.
- THE TOP AND BOTTOM BEAMS ARE ROUTED THE SAME.
- BOLT HOLES ARE 9/16" DIAMETER (POSTS, BEAMS, DEADMEN).
- DOWEL HOLES ARE 1 1/4" DIAMETER AT 1 1/2" DEPTH (POSTS ONLY).



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**R10**  
ALASKA REGION

STAMPS, LOGOS, AND SEALS

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PROJECT NAME

**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE

**TWO-PANEL KIOSK FABRICATION**

DATE 12/12/2022	ARCHIVE NO. Kiosk_details.dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D8</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 17 OF 20





United States Department of Agriculture  
Forest Service

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ALASKA REGION

STAMPS, LOGOS, AND SEALS

NO.	REVISION / ISSUE	DATE

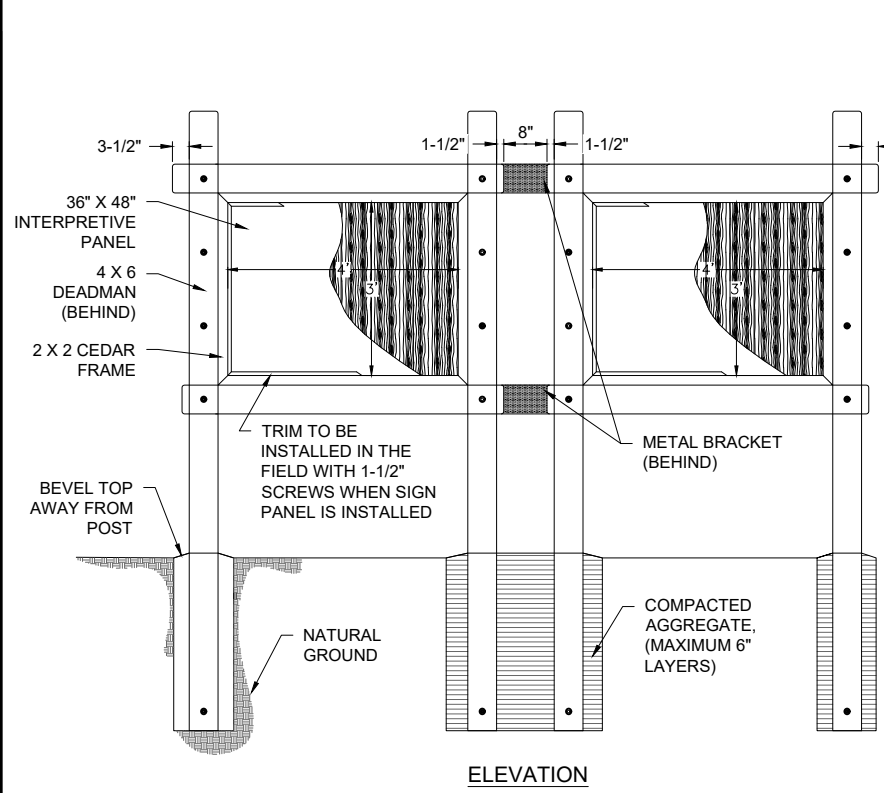
PROJECT NAME  
**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

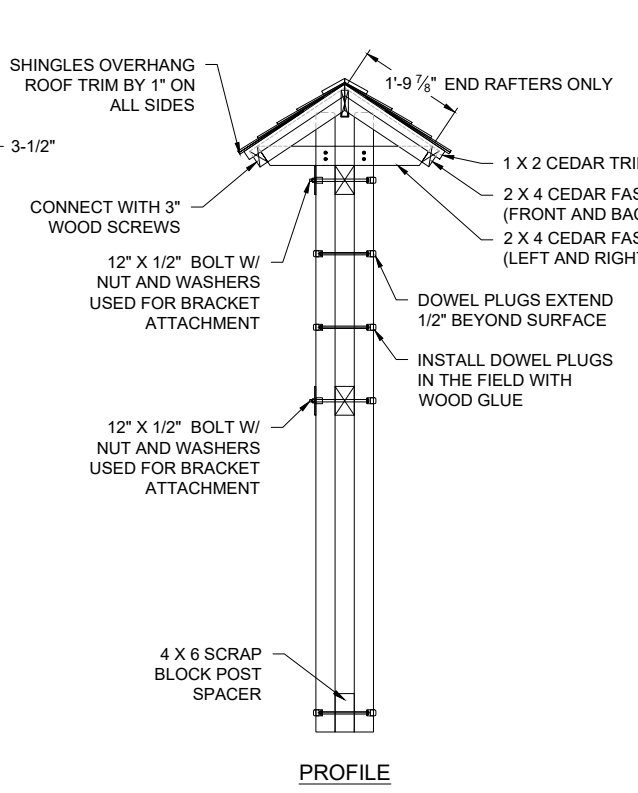
SITKA RANGER DISTRICT

DRAWING TITLE  
**TWO-PANEL KIOSK FABRICATION**

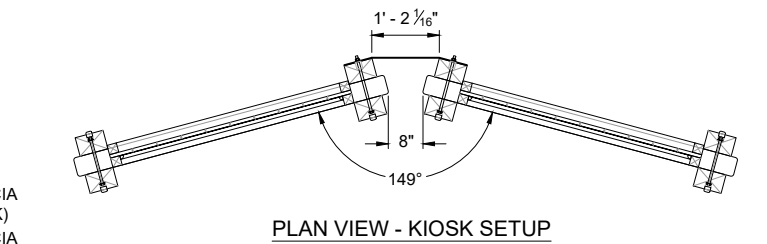
DATE 12/12/2022	ARCHIVE NO. Kiosk_details.dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D9</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 18 OF 20



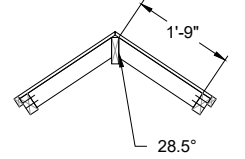
ELEVATION



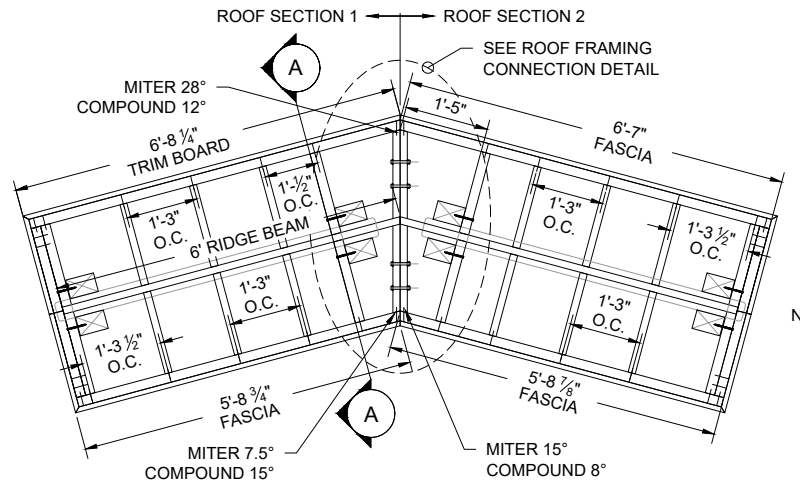
PROFILE



PLAN VIEW - KIOSK SETUP



A ROOF FRAME SECTION



PLAN VIEW - ROOF FRAME

- NOTES:
1. ROOF IS COMPOSED OF TWO (2) SEPARATE SECTIONS.
  2. CONNECT ROOF SECTIONS WITH 3/8" X 5" HEX BOLTS.
  3. SEE THIS SHEET FOR OUTSIDE ROOF PROFILE.
  4. SEE SHEET D8 FOR BRACKET ATTACHMENT DETAILS.

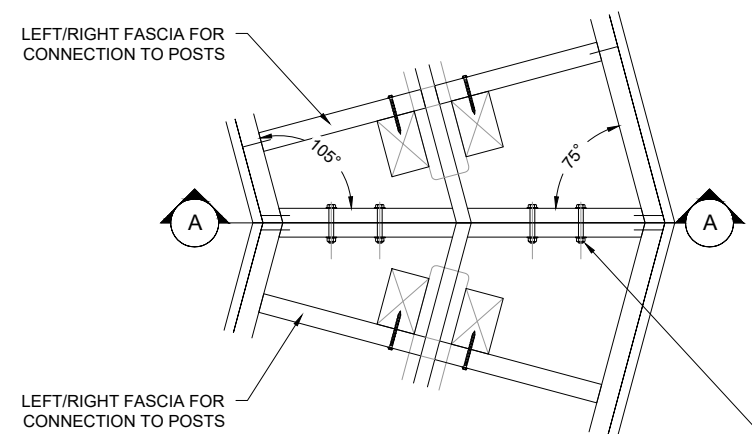
- NOTES:
1. SEE BRACKET ATTACHMENT DETAIL ON SHEET D8.
  2. DOWEL PLUGS SHALL BE PUT IN PLACE IN THE FIELD WITH WOOD GLUE.

**TWO PANEL ASSEMBLY DETAIL**

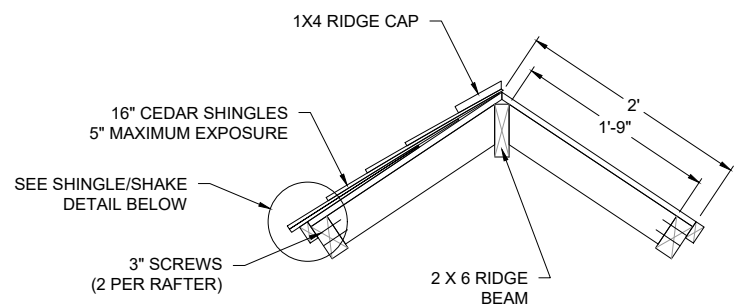
NOT TO SCALE

**ROOF FRAMING DETAIL**

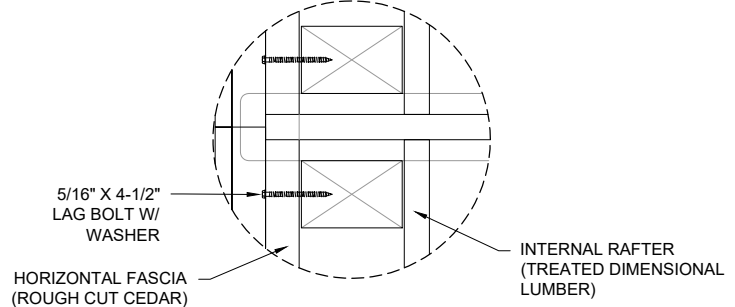
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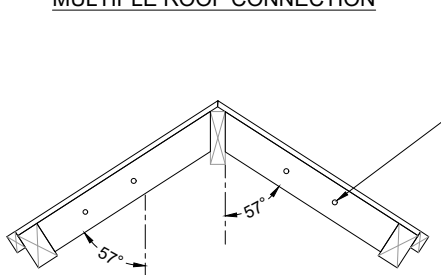
MULTIPLE ROOF CONNECTION



ROOF TYPICAL SECTION



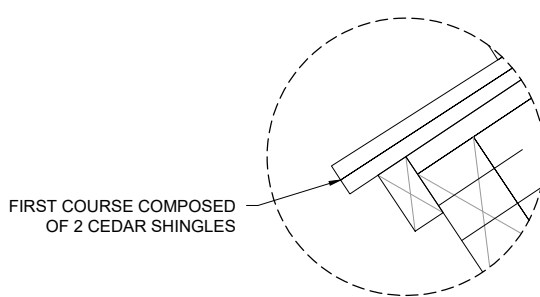
ROOF ATTACHMENT DETAIL



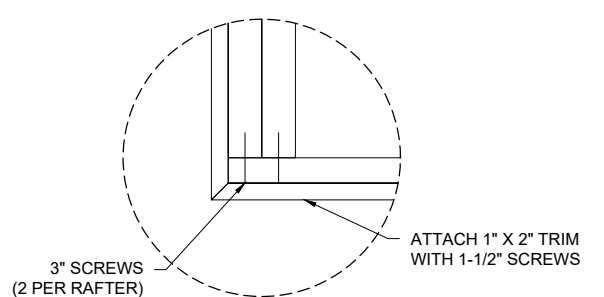
A ROOF SECTION VIEW

**ROOF CONNECTION FRAMING DETAIL**

NOT TO SCALE



SHINGLE / SHAKE DETAIL



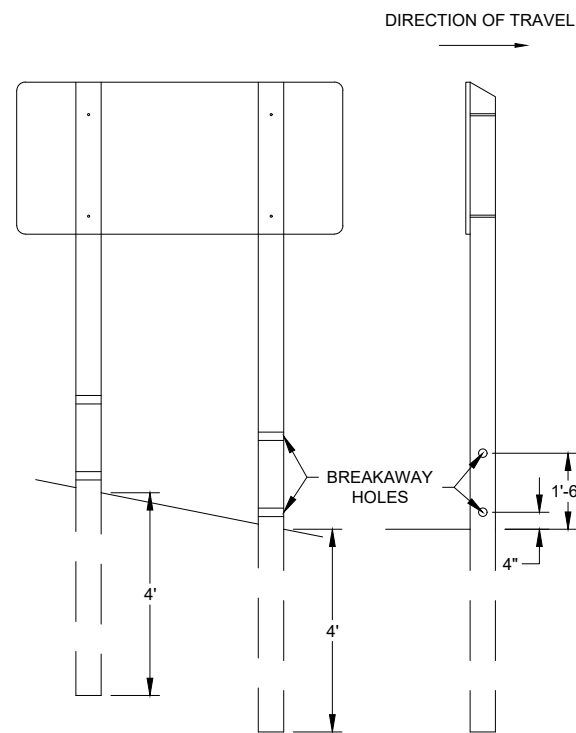
FASCIA DETAIL

**ROOF DETAILS**

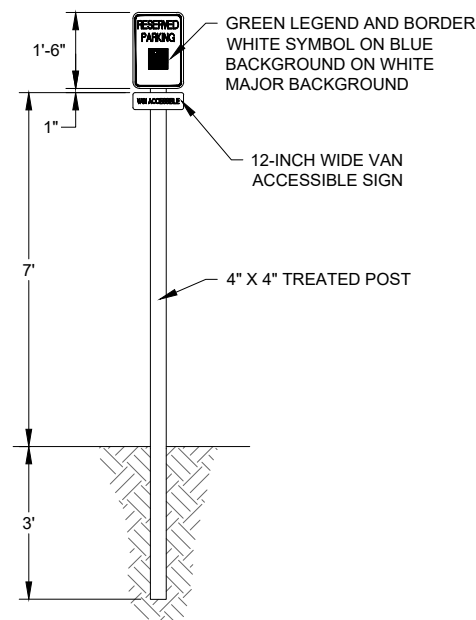
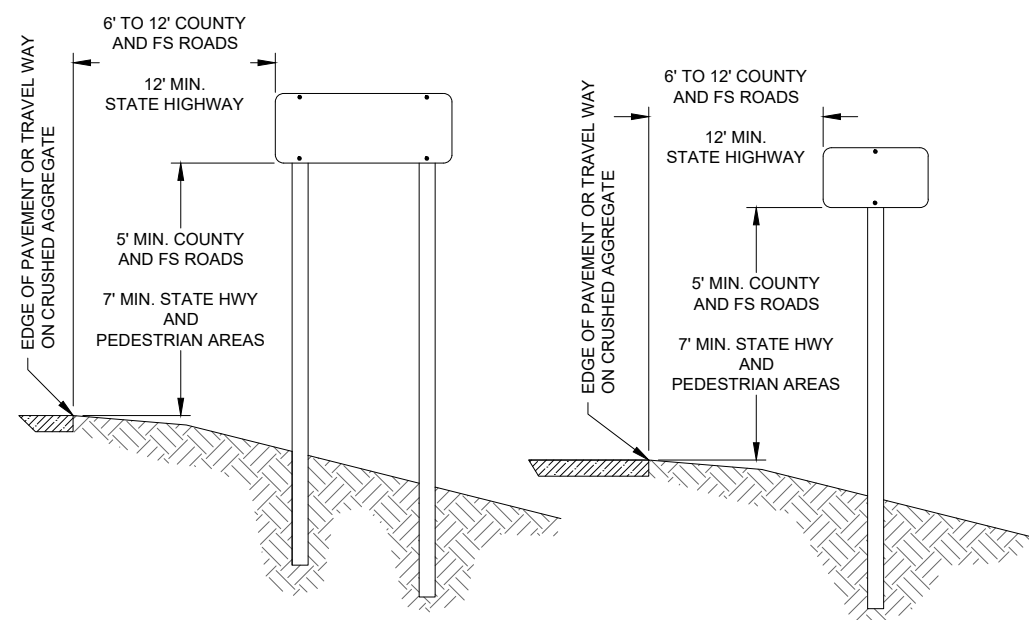
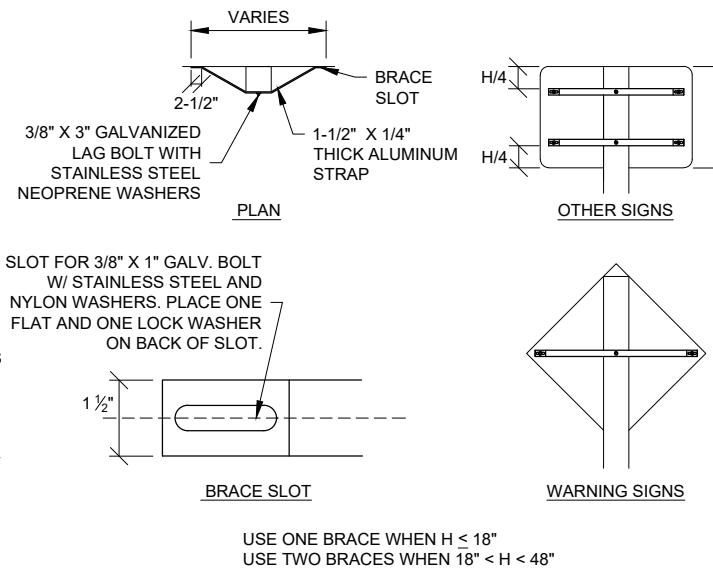
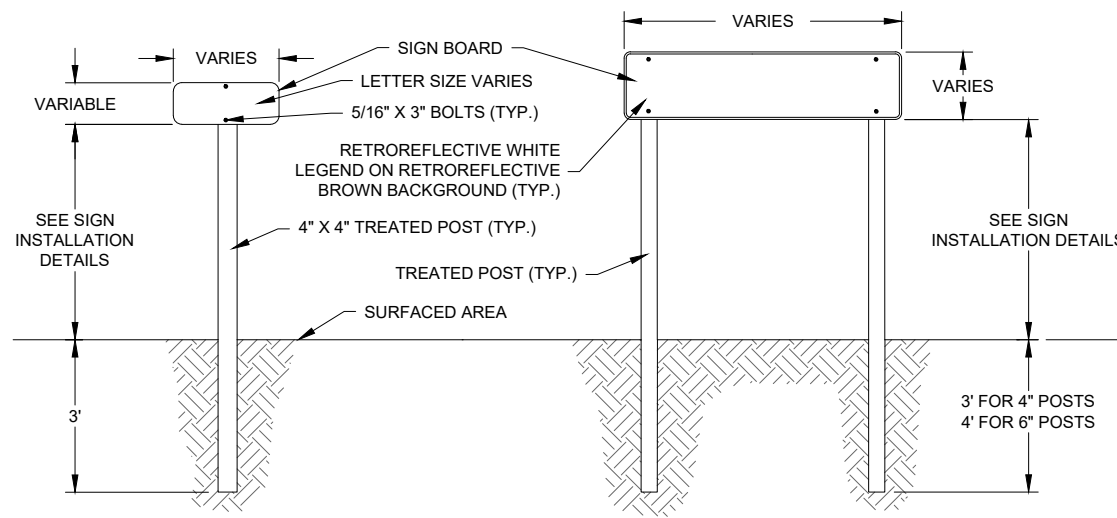
NOT TO SCALE

3/12/23 13:37 MALANIZ C:\USERS\MALANIZ\BOX\EP\_ONESTOPSHOP\EP\_PROJECT\_AGREEMENTS\NSR10-1005-TONGASS\22-ENG-1005-83\15\_WORKING\_FILES\_TRAILHEAD\REVISED CONTRACT\17\_DR\_D9\_KIOSK\_DETAILS.DWG

3/1/23 13:38 MALANIZ C:\USERS\MALANIZ\BOX\EP\_ONESTOPSHOP\PROJECT AGREEMENTS\FSR10-1005-TONGASS\22-ENG-1005-8315\_WORKING FILES\_TRAILHEAD\REVISED CONTRACT\D10\_SIGNINSTALLATION\_WOODPOST.DWG



\*FIELD DRILL HOLES AND TREAT WITH PRESERVATIVES.  
 \*\*WOOD POSTS LARGER THAN 4"x4" OR A CROSS SECTIONAL AREA OF 24 SQUARE INCHES OR GREATER REQUIRE BREAKAWAY POSTS.



SIGN LIST				
ID #	DESCRIPTION	SIGN #	QUANTITY	COLOR
SIGN #1	DO NOT ENTER	R5-1-30	2	RED ON WHITE
SIGN #2	STARRIGAVAN ↔ TRAILHEAD ENTRANCE	FRD-3-4	1	WHITE ON BROWN
SIGN #3	NO PARKING	R8-3a (24X30)	2	BLACK ON WHITE
SIGN #4	ACCESSIBLE PARKING w/ VAN ACCESSIBLE PLAQUE	W2-2 w/ W13-1P	1	GREEN ON WHITE, BLUE SYMBOL
SIGN #5	TRAILER PARKING ONLY PARK BETWEEN WHEELSTOPS	FRD-2-4	1	WHITE ON BROWN
SIGN #6	CAR PARKING ONLY NO TRAILERS	FRD-2-4	3	WHITE ON BROWN

- NOTES:**
- ALL SIGN BOARDS INSTALLED ON SINGLE POSTS SHALL BE CENTERED.
  - DIMENSIONS FOR SIGN INSTALLATION ARE SCHEMATIC.
  - ALL SIGNS SHALL BE INSTALLED USING VANDAL RESISTANT BOLTS AND NUTS.
  - INSTALLATION DATE AND VANDAL WARNING LABELS SHALL BE INSTALLED ON ALL SIGNS IN ACCORDANCE WITH FS MANUAL EM 7100-15.
  - ALL SIGNS SHALL MEET MUTCD AND FOREST SERVICE STANDARDS.
- \*NOTE: DOUBLE POST REQUIRED IF SIGN LENGTH EXCEEDS 36 INCHES.  
 \*\*NOTE: TWO SIGNS MOUNTED ON THE SAME POST WILL BE PAID FOR AS ONE SIGN.

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**R10**  
 ALASKA REGION

STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE

PROJECT NAME

**STARRIGAVAN  
 TRAILHEAD**

**TONGASS NATIONAL  
 FOREST**

SITKA RANGER DISTRICT

DRAWING TITLE

**SIGN LIST AND  
 INSTALLATION DETAILS**

DATE 12/8/2022	ARCHIVE NO. Sign&Installation_WoodPost.dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D10</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 19 OF 20



United States Department of Agriculture  
Forest Service

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ALASKA REGION

STAMPS, LOGOS, AND SEALS

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3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**STARRIGAVAN TRAILHEAD**

**TONGASS NATIONAL FOREST**

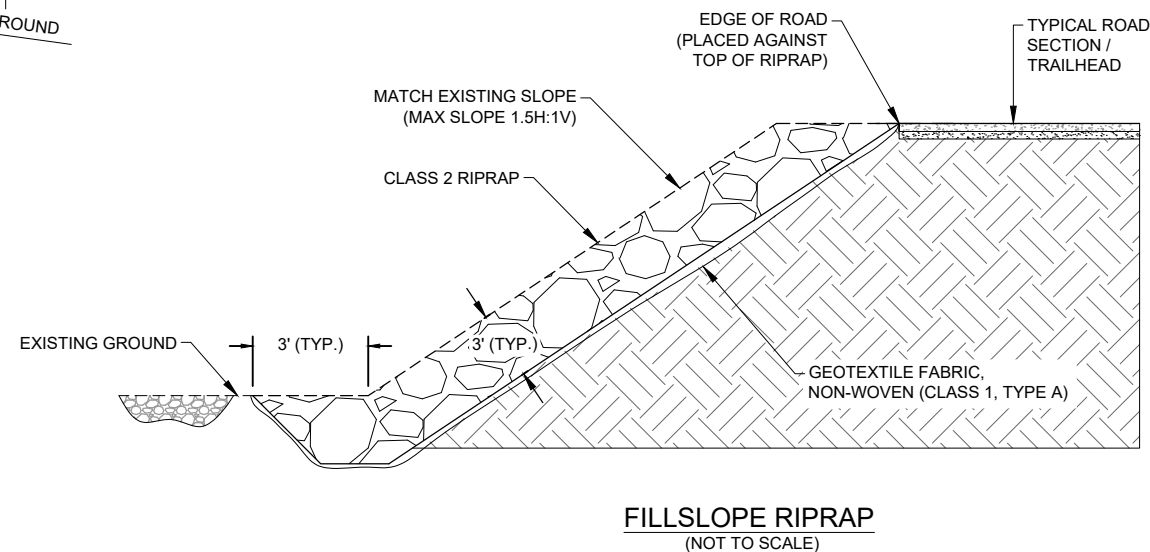
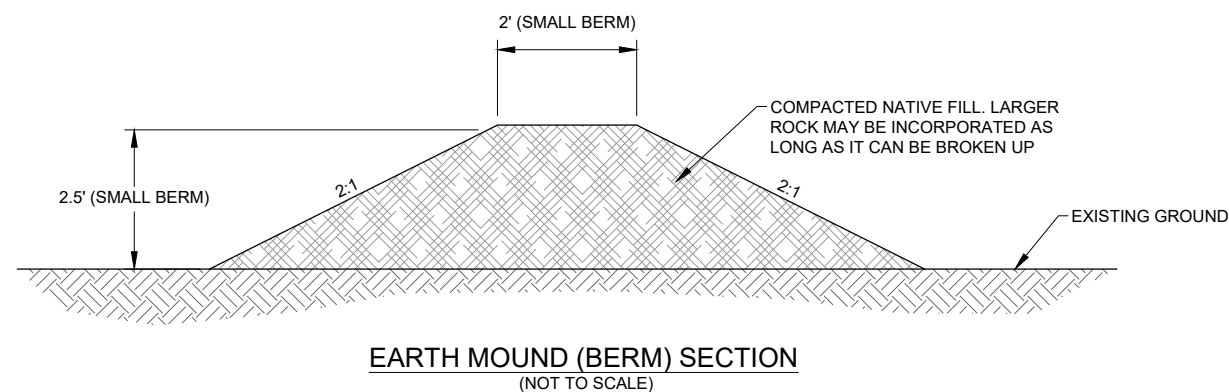
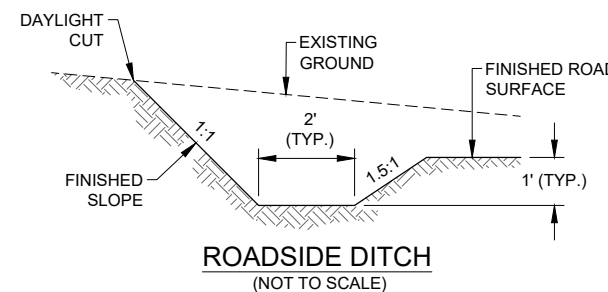
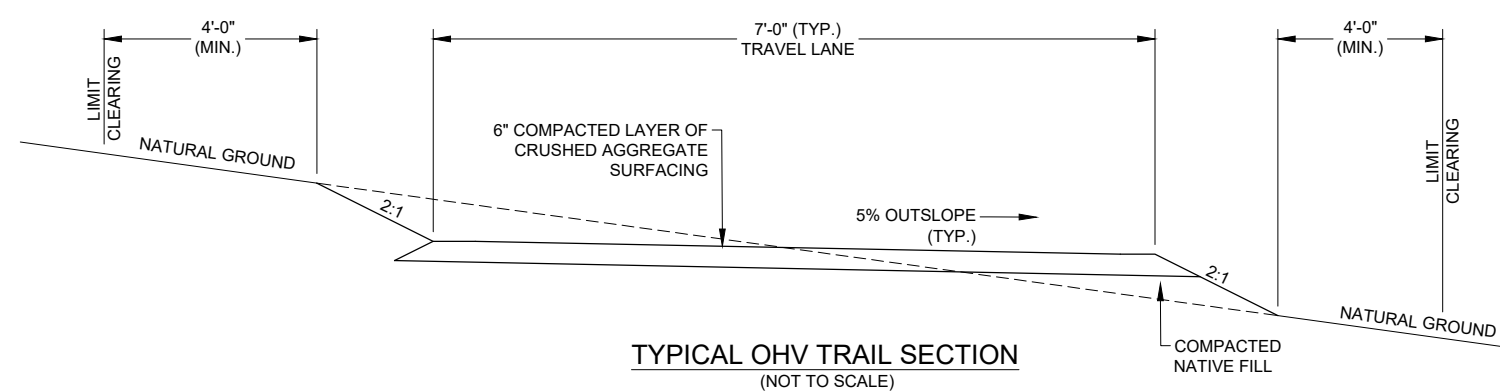
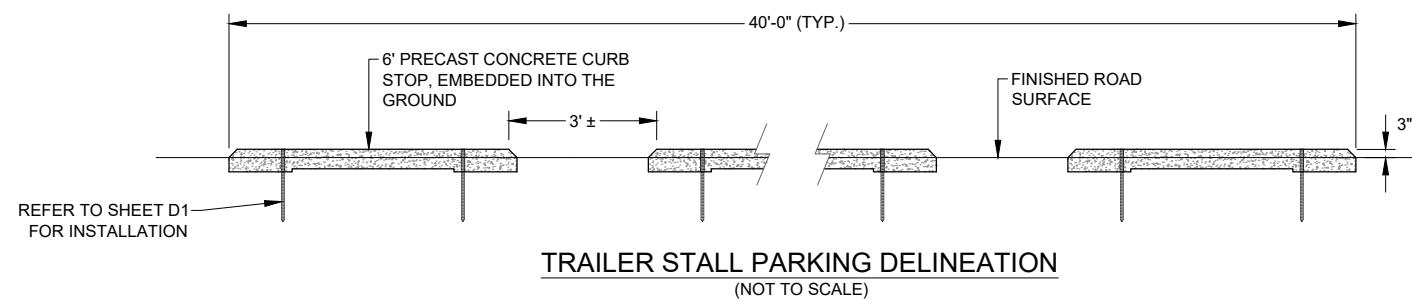
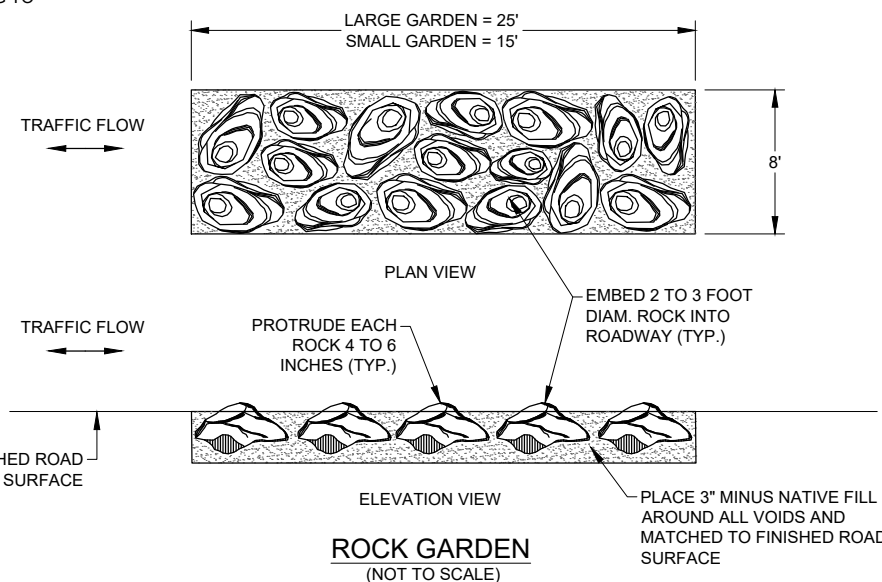
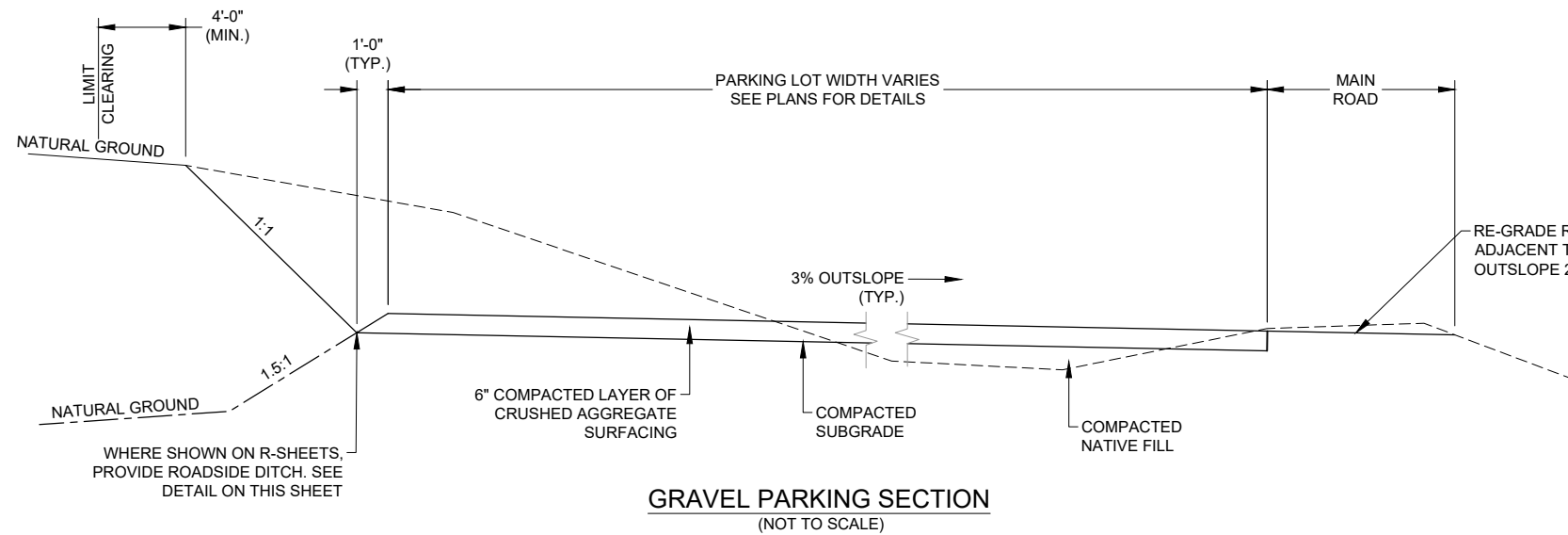
SITKA RANGER DISTRICT

DRAWING TITLE

**TYPICAL ROADWAY DETAILS**

DATE 12/14/2022	ARCHIVE NO. Road_typicals.dwg
DESIGNER M. ALANIZ	DRAWING SHEET NO. <b>D11</b>
DRAWN M. ALANIZ	
CHECKED D. KIMBALL	
PROJECT NO. 22-ENG-1005-83	SHEET 20 OF 20

- NOTES:
- CONSTRUCT OHV TRAIL AND PARKING LOT (TRAILHEAD) IN ACCORDANCE WITH FP-14 SECTION 204.
  - AGGREGATE SURFACE COURSE GRADATION SHALL MEET FP-14 SECTION 703.06.



3/31/23 13:40 MALANIZ C:\USERS\MALANIZ\BOXEP\_ONESTOP\HOPEP\_PROJECT\_AGREEMENTS\NFSR10-1005-TONGASS\22-ENG-1005-83\5\_WORKING\_FILES\_TRAILHEAD\REVISED CONTRACT\D11\_ROAD\_TYPICALS.DWG