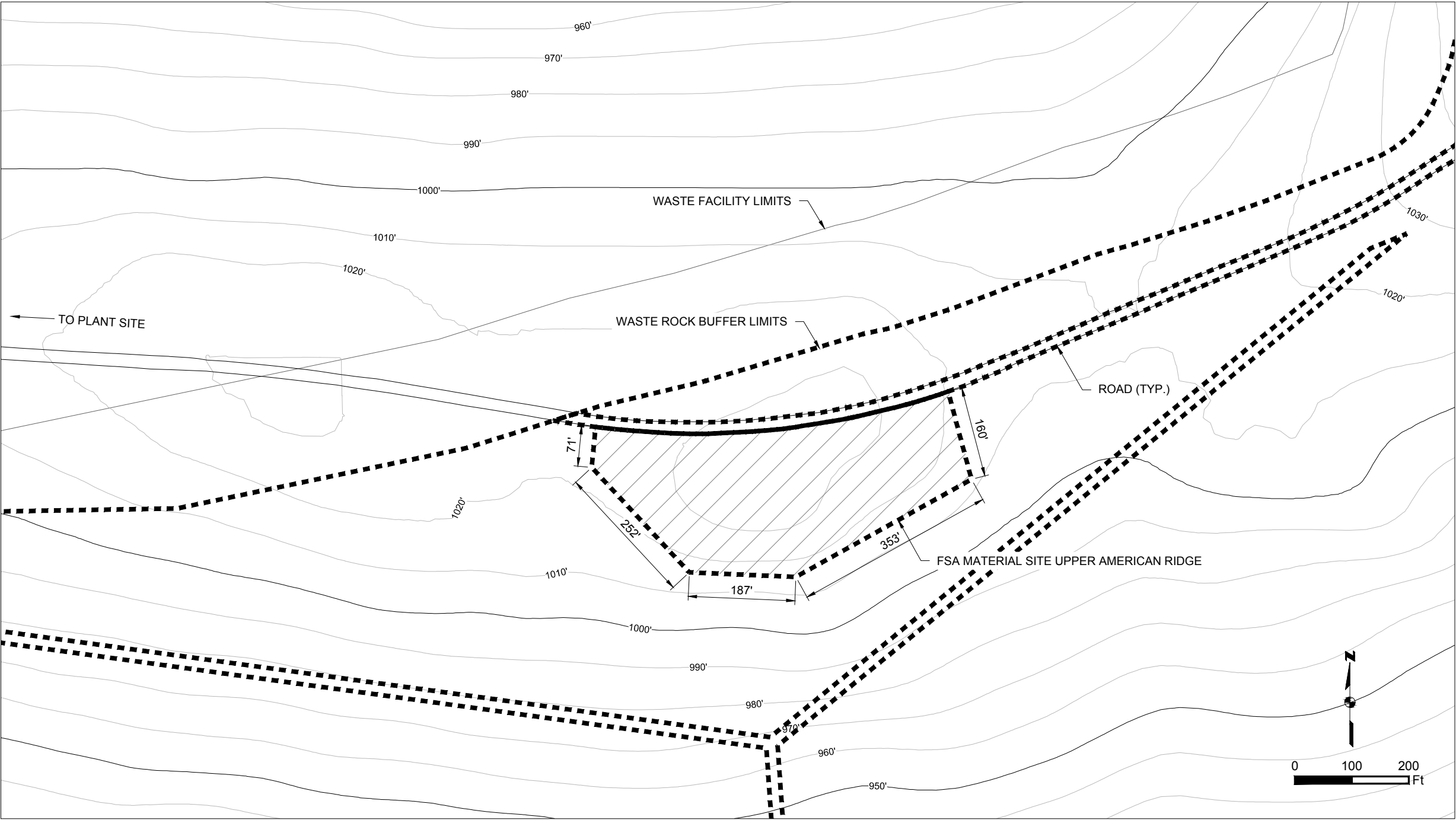


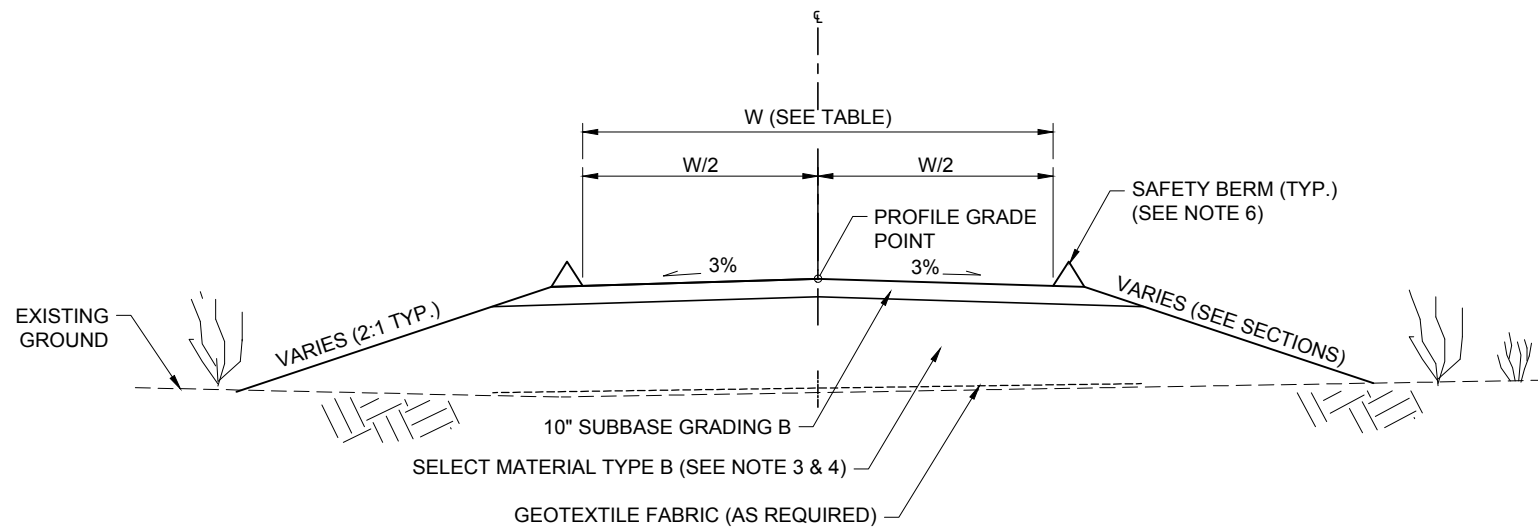
 Existing 10' Contours
 Fill Area
 Project Disturbance
 Existing 50' Contours
 Cut Area
 Underdrain, Arrow Indicates Direction of Flow
 Existing Ground
 Proposed Grade

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
WASTE_ROCK_FACILITY.dwg (BGC) JUNE 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		WASTE ROCK FACILITY DETAIL	
		NAD 1983 UTM Zone 4N		FIGURE NO.	
		SCALE: AS SHOWN DATE: 9/11/2015		MA-207D5	
				POA-1995-120	



FSA MATERIAL SITE UPPER AMERICAN RIDGE PLAN
SCALE 1" = 200'

<div><div></div>Existing 10' Contours</div> <div><div></div>Existing 50' Contours</div> <div><div></div>Project Disturbance</div>	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	M02C-SP-AR_01.dwg (BAKER) SEP 2014		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		FSA MATERIAL SITE UPPER AMERICAN RIDGE DETAIL	
			NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
SCALE: AS SHOWN		DATE: 9/28/2015		MA-207D7		POA-1995-120

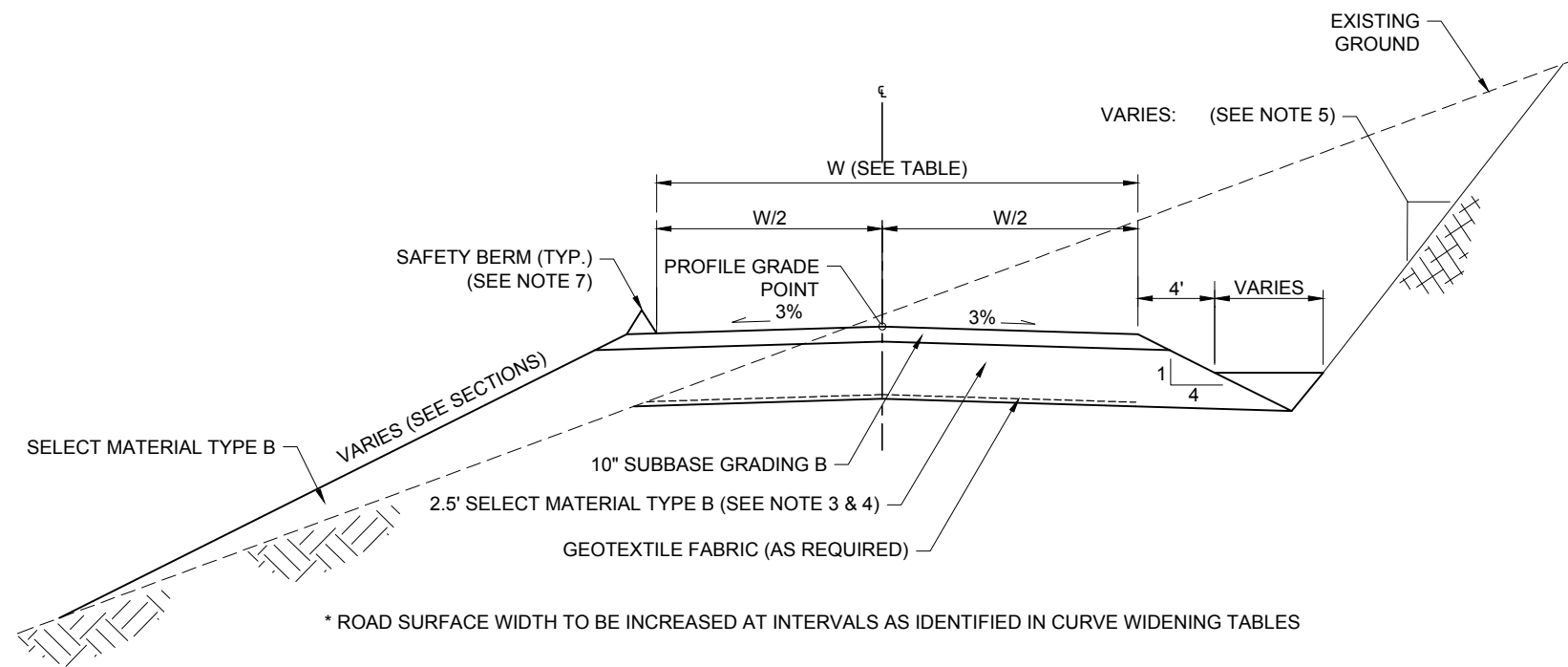


SECTION TYPICAL FOR WETLAND AND PERMAFROST INTERVALS IN MOSTLY LEVEL TERRAIN.

A-A'
210T
SCALE 1" = 10'
0 5 10
Ft

NOTES:

- CLEARING LIMITS MIN. 10' BEYOND TOP OF CUT OR TOE OF FILL.
- SUBBASE GRADING B; TO CONSIST OF 3" MINUS, WELL GRADED, GRANULAR MATERIAL WITH 6 TO 10% PASSING THE 200 SIEVE. MATERIAL TO BE DURABLE
- SELECT MATERIAL TYPE B; TO CONSIST OF COARSE ROCK OR GRAVEL. NON-FROST-SUSCEPTIBLE.
- DEPTH OF FILL WILL VARY DEPENDING ON SOIL TYPE AND CONDITION.
- TO THE EXTENT POSSIBLE, NATIVE VEGETATION AND GROUND SURFACE TO BE LEFT INPLACE.
- SAFETY BERM TO BE CONSTRUCTED TO A HEIGHT EQUAL TO ONE HALF THE TIRE DIAMETER OF THE LARGEST VEHICLE TO TRAVEL ROADWAY.



* ROAD SURFACE WIDTH TO BE INCREASED AT INTERVALS AS IDENTIFIED IN CURVE WIDENING TABLES

B-B'
210T
SCALE 1" = 10'
0 5 10
Ft

NOTES:

- CLEARING LIMITS MIN. 10' BEYOND TOP OF CUT OR TOE OF FILL.
- SUBBASE GRADING B; TO CONSIST OF 3" MINUS, WELL GRADED, GRANULAR MATERIAL WITH 6 TO 10% PASSING THE 200 SIEVE. MATERIAL TO BE DURABLE
- SELECT MATERIAL TYPE B; TO CONSIST OF COARSE ROCK OR GRAVEL. NON-FROST-SUSCEPTIBLE.
- DEPTH OF FILL WILL VARY DEPENDING ON SOIL TYPE AND CONDITION.
- BACKSLOPES WILL VARY DEPENDENT UPON SOIL TYPES OR ROCK CHARACTERISTICS.
TYPICAL:
3.0 : 1 FOR WET SILTY COLLUVIAL SOIL
2.0 : 1 FOR WELL DRAINED SILT AND SILTY GRAVEL
1.5 : 1 FOR WELL DRAINED SILT AND SILTY GRAVEL UP TO 1.0 : 1 FOR ROCK
- ACCOMMODATE EXCESS EXCAVATION AND WASTE DISPOSAL BY FLATTENING AND/OR EXTENDING INSLOPE. EXTENT TO BE DETERMINED BY FIELD ENGINEER.
- SAFETY BERM TO BE CONSTRUCTED TO A HEIGHT EQUAL TO ONE HALF THE TIRE DIAMETER OF THE LARGEST VEHICLE TO TRAVEL ROADWAY.

FAC ID	Facility Name	W (ft)
35	Lungvik-Donlin Road, Crooked Creek Bridge to Pit Access Road	28
36	Lungvik-Donlin Road, Pit Access Road to Mill/Plant Site	38
39	Plant Site Crusher Facility Access Road & Parking	20
40	Fleet Service Access Road	33
50	Snow Gulch Pond Access Road	16

FAC ID	Facility Name	W (ft)
60	A1 Storage Access Road	16
69	Upper TSF Access Road - A	16
70	Upper TSF Access Road - B	16
115	Plant Site Waste Rock Facility Access Road	60
126	Waste Rock Storage Area Access Road	16
133	American Ridge Access Road	16

Associated Engineering Drawings

A1-166549-4100-C-0097 (RECON/AMEC) MAR 2012;
A1-166549-4100-S-101 (RECON/AMEC) MAR 2012

DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

DRAWING TITLE:

**ROAD TYPICAL
DETAIL**

SCALE: AS SHOWN

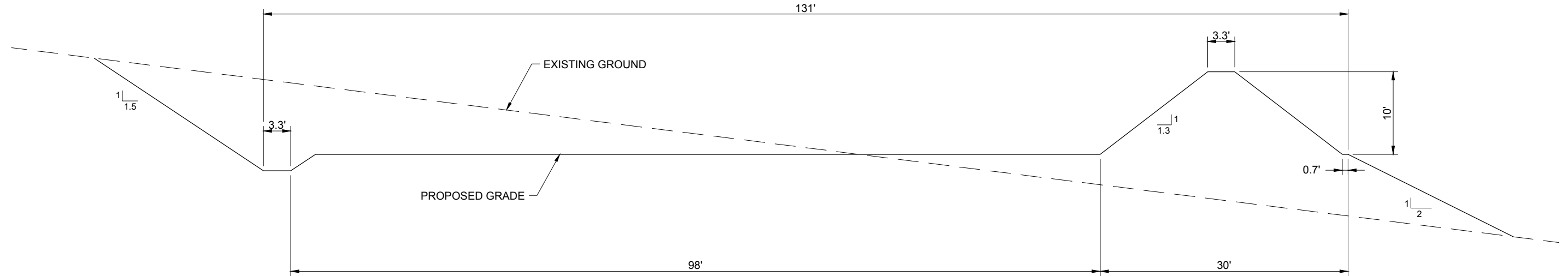
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FIGURE NO.

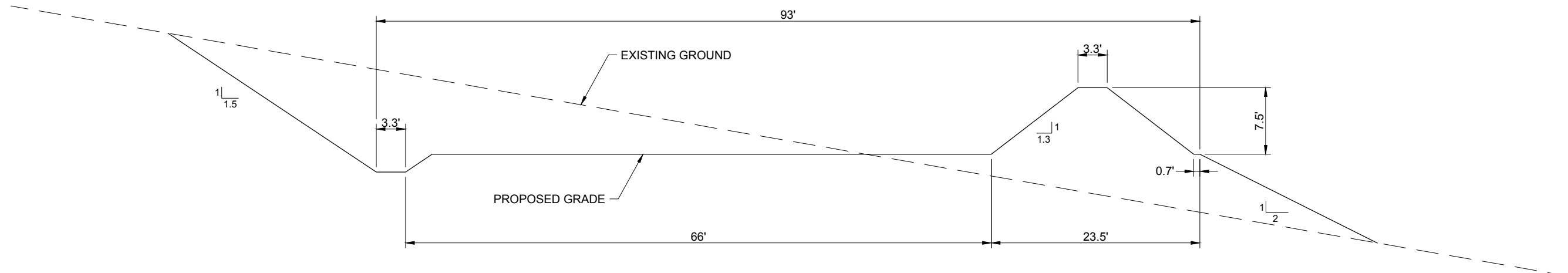
MA-210T

FILE NO.

POA-1995-120



(A-A') 211T **TYPICAL CROSS SECTION FOR GENERAL PURPOSE MINE HAUL ROADS**
N.T.S.



(B-B') 211T **TYPICAL CROSS SECTION FOR CONSTRUCTION HAUL ROADS**
N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	HAUL_ROAD_AND_CONSTRUCTION_ROAD_CROSS-SECTION_PROFILE.dwg (BGC / RAY HODSON) MAY 2011		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		HAUL AND CONSTRUCTION ROAD TYPICAL DETAIL	
	SCALE: AS SHOWN		DATE: 9/11/2015		FIGURE NO. MA-211T	FILE NO. POA-1995-120