

GENERAL SHEETS

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137	PA- 105 C	PLAN VIEW PIPELINE ENGINEERING MAP - AERIAL
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144	PA- 108 A	PLAN VIEW PIPELINE WETLANDS MAP
145	PA- 108 B	PLAN VIEW PIPELINE ENGINEERING MAP
146	PA- 108 C	PLAN VIEW PIPELINE ENGINEERING MAP - AERIAL
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148	PA- 109 B	PLAN VIEW PIPELINE ENGINEERING MAP
149	PA- 109 C	PLAN VIEW PIPELINE ENGINEERING MAP - AERIAL
150	PA- 110 A	PLAN VIEW PIPELINE WETLANDS MAP

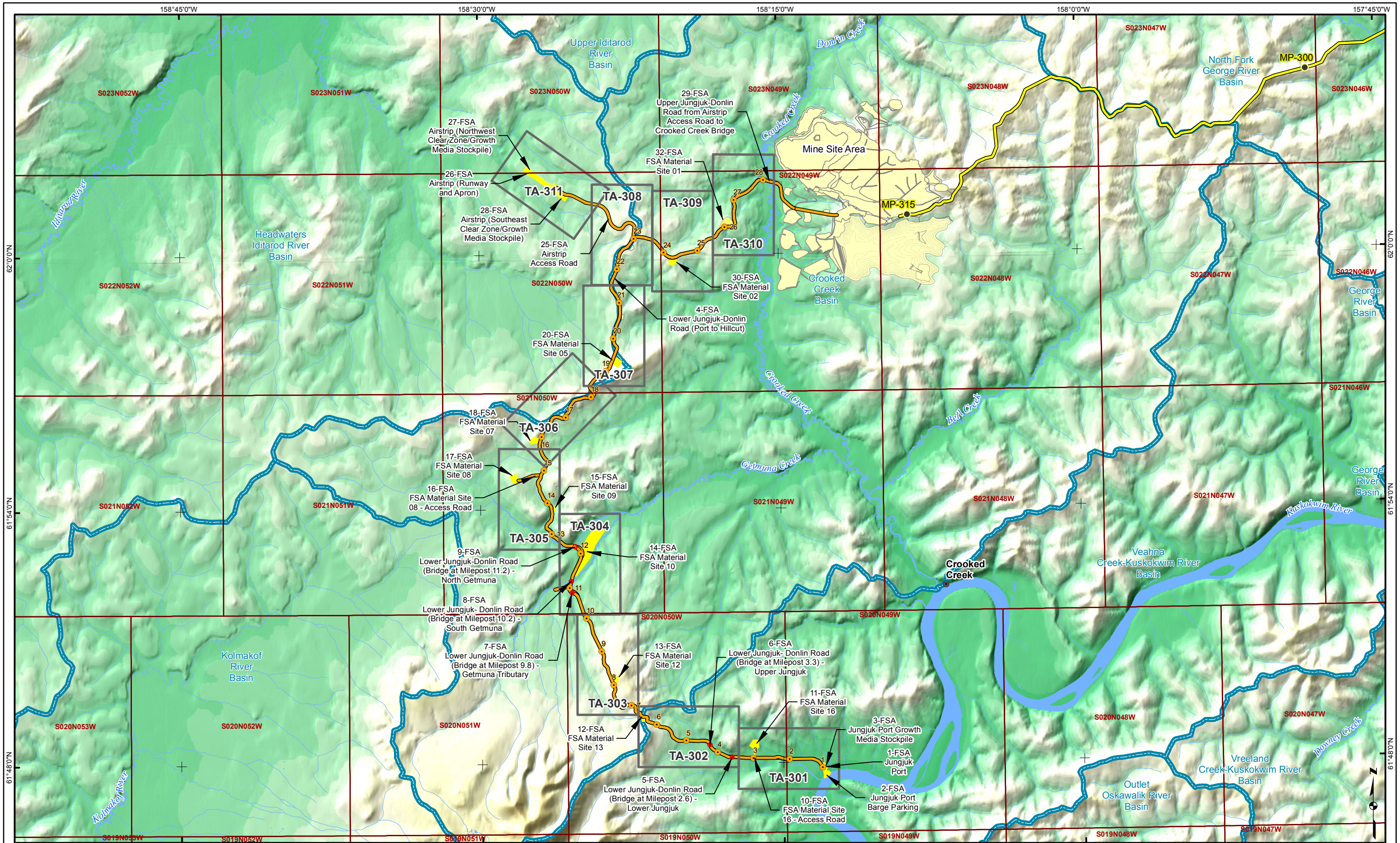
PIPELINE STUDY AREA (PA SERIES MAPS)

No.	Sheet Number	Sheet Title
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155	PA- 111 C	PLAN VIEW PIPELINE ENGINEERING MAP - AERIAL
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166	PA- 134 T	WINTER ROAD TYPICAL DETAIL
167	PA- 135 T	WINTER ROAD TYPICAL DETAIL
168	PA- 136 T	WINTER ROAD TURNAROUND
169	PA- 137 T	HDD ENTERY SITE EQUIPMENT LAYOUT
170	PA- 138 T	TYPICAL WATERBODY CROSSING HORIZONTAL BORE
171	PA- 139 T	TYPICAL PIG LAUNCHER 16” X 14”
172	PA- 140 T	TYPICAL PIG LAUNCHER 16” X 14”
173	PA- 141 T	SHOOFLY OR ACCESS ROAD DETAIL
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177	PA- 145 T	TYPICAL WATERBODY CROSSING DETAIL
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181	PA- 149 T	TYPICAL SLOPE BREAKER WITH LONGITUDINAL CROSS SLOPES DETAIL
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191	PA- 159 T	RIGHT OF WAY PLAN, SUMMER PERMAFROST R.O.W. MODE
192	PA- 160 T	CROSS SECTION, SUMMER PERMAFROST R.O.W. MODE
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196	PA- 164 T	RIGHT OF WAY PLAN, WINTER GRADED R.O.W. MODE
197	PA- 165 T	RIGHT OF WAY PLAN, WINTER GRADED R.O.W. MODE
198	PA- 166 T	CROSS SECTION, WINTER GRADED R.O.W. MODE
199	PA- 167 T	RIGHT OF WAY PLAN, WINTER PERMAFROST R.O.W. MODE
200	PA- 168 T	RIGHT OF WAY PLAN, WINTER PERMAFROST R.O.W. MODE
201	PA- 169 T	CROSS SECTION, WINTER PERMAFROST R.O.W. MODE
202	PA- 170 T	RIGHT OF WAY PLAN, WINTER WETLANDS R.O.W. MODE
203	PA- 171 T	RIGHT OF WAY PLAN, WINTER WETLANDS R.O.W. MODE
204	PA- 172 T	CROSS SECTION, WINTER WETLANDS R.O.W. MODE
205	PA- 173 T	TYPICAL CAMP PLOT PLAN 100 TO 300 MAN CAMP DETAIL
206	PA- 174 T	BURIED PIPE WITH OVER-EXCAVATION IN ICE RICH SOILS

GENERAL NOTES

- ALL PROPOSED DISTURBANCE IS INTENDED TO BE PERMANENT DISTURBANCE, UNLESS OTHERWISE SPECIFIED.
- THE PROPOSED DISTURBANCE LIMIT OF SOME FACILITIES MAY EXTEND OUTSIDE OF THEIR DESIGNED FOOTPRINTS. WHILE THIS ADDITIONAL DISTURBANCE AREA MAY NOT BE DIRECTLY IMPACTED AS PART OF AN ACTIVITY, IT HAS BEEN ASSUMED AS PART OF THIS ANALYSIS AS A DIRECT IMPACT ASSOCIATED WITH POTENTIAL INCIDENTAL ACCESS, POTENTIAL VARIATION OR MODIFICATIONS UPON FINAL CONSTRUCTION DESIGN, CONSTRUCTION IMPLEMENTATION NEEDS, POTENTIAL STORAGE OF WASTE FROM VEGETATION CLEARING ACTIVITIES, POTENTIAL STORAGE OF SNOW FROM SNOW CLEARING ACTIVITIES, AND/OR BMP CONTROL MEASURES THAT MAY BE NEEDED.
- SPECIFICATIONS OF FILL MATERIAL UTILIZED FOR CONSTRUCTION ACTIVITIES WILL BE DETERMINED AS ENGINEERING OF THE ASSOCIATED FACILITIES ADVANCES.
- CUT AND FILL SLOPES ARE ASSUMED TO BE 2:1 (HORIZONTAL : VERTICAL) UNLESS OTHERWISE SPECIFIED. SLOPES MAY VARY PENDING SOIL OR ROCK TYPE ENCOUNTERED DURING EXCAVATION.
- CROSS SECTIONS DEPICTING CUT BELOW EXISTING GROUND AND PROPOSED FILL, ASSUME EXCAVATION TO COMPETENT SOILS FOR CONSTRUCTION OF PADS OR STOCKPILES.
- EROSION AND SEDIMENT CONTROL WILL BE PROVIDED DURING CONSTRUCTION AND OPERATIONS IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.
- RECLAMATION AND FINAL STABILIZATION OF DISTURBED AREAS WILL BE IN ACCORDANCE WITH THE RECLAMATION AND CLOSURE PLAN.

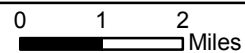
DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		FIGURE NO: GENERAL NOTES AND SHEET INDEX	
		FIGURE NO. G001	FILE NO. POA-1995-120
		DATE: 10/27/2015	



- | | | | |
|--------------------------|---------------------------------|--------------------------|---------------------|
| ● Pipeline Milepost (MP) | — Proposed Natural Gas Pipeline | ● Bridge | — River/Stream |
| ● Road Milepost | — Proposed Jungjuk Road | ● Proposed Disturbance | □ Figure Page Index |
| ● Populated Place | ● HUC 10 Basins (NRCS) | ● Proposed Mine Facility | |

Associated Engineering Drawings

ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon)
A1-166549-80-13-006.dwg (AMEC)



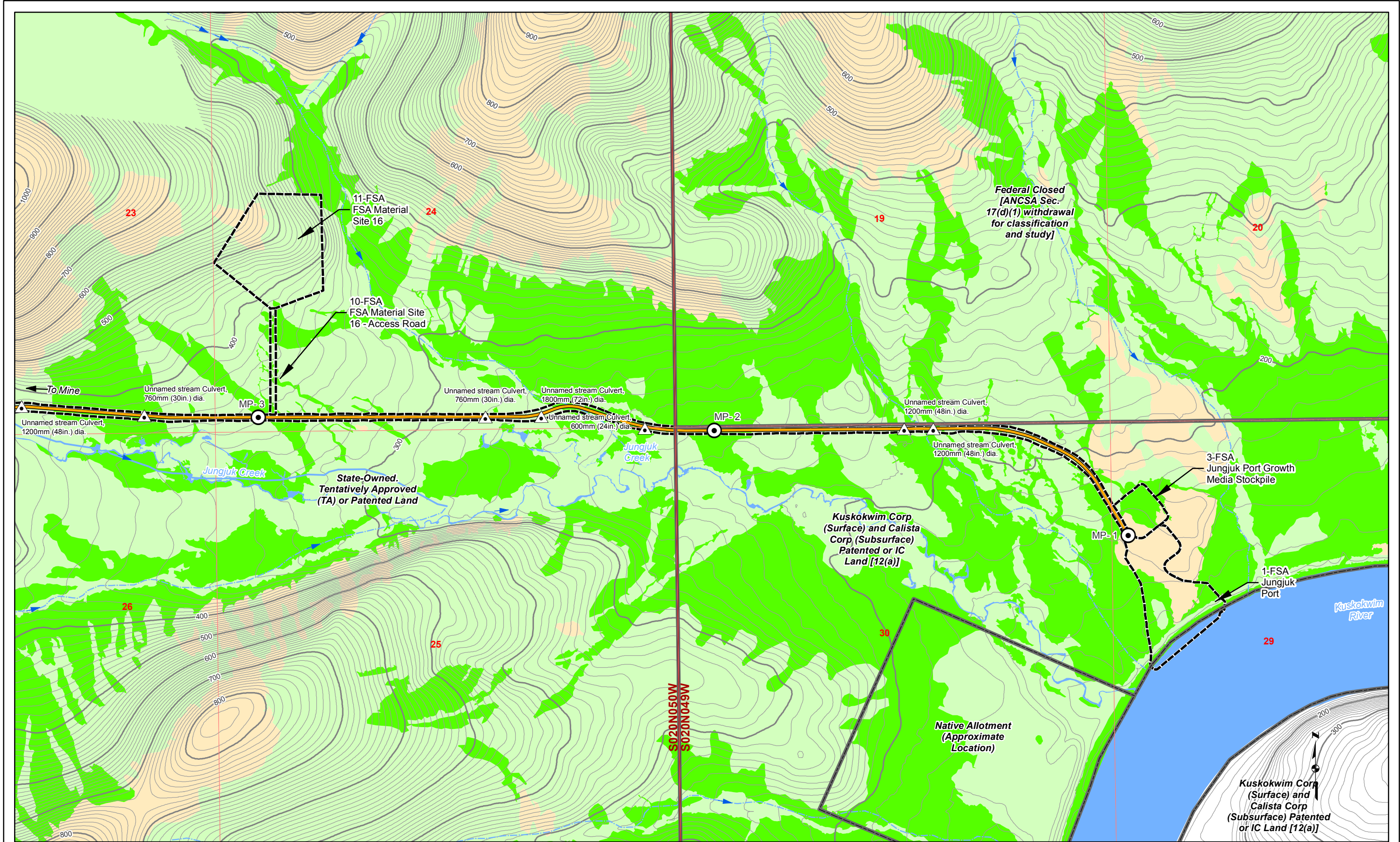
DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N

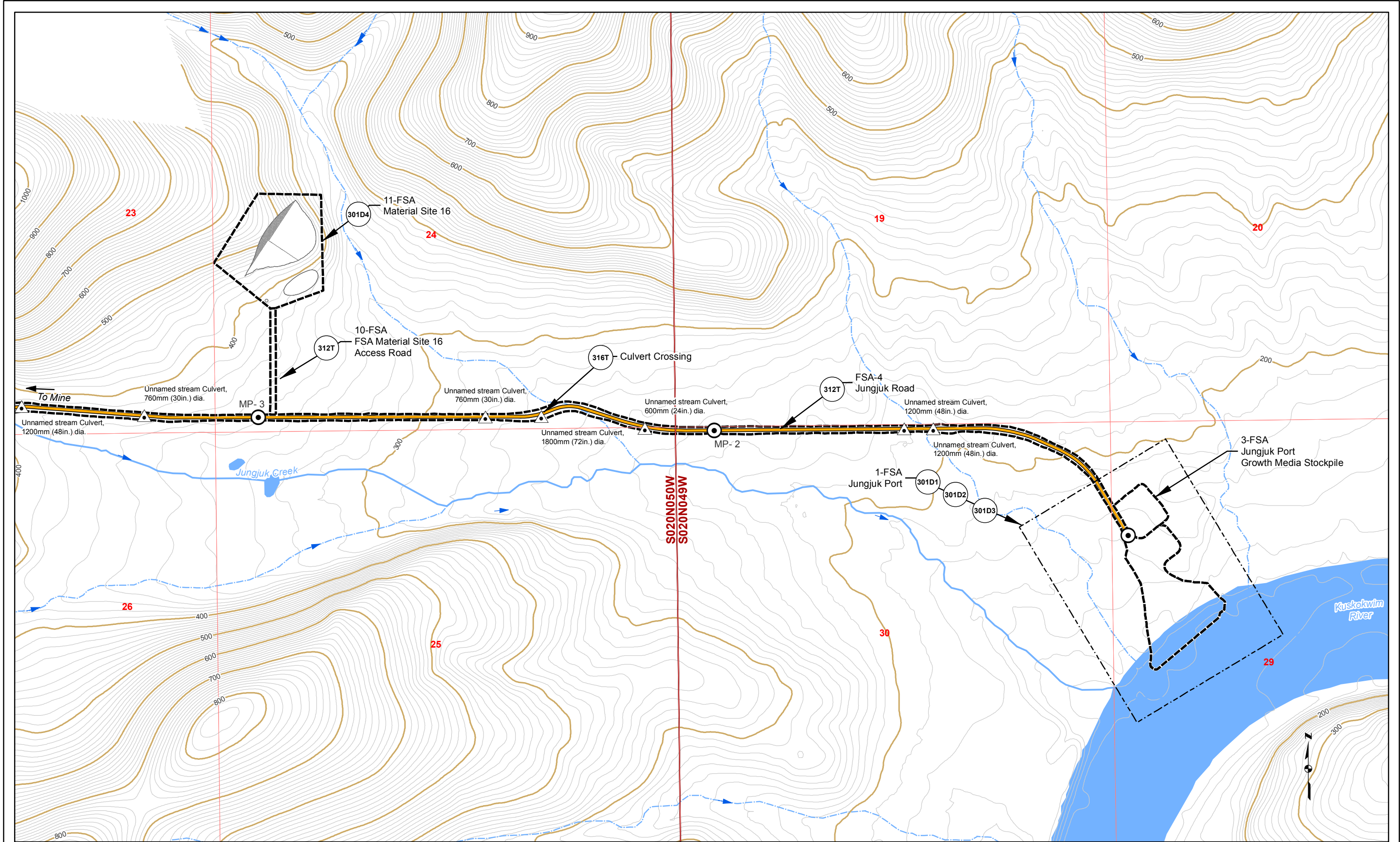
SCALE: 1 inch = 2 miles DATE: 8/13/2015

DRAWING TITLE: **PLAN VIEW
TRANSPORTATION AREA
INDEX MAP**

FIGURE NO. **TA-300G** FILE NO. **POA-1995-120**



Land Status Land Status Road Milepost Powerline Culvert	Mosaic Mosaic Upland Wetlands	Waters Waters Stream Flow Direction Named River/Stream	Bridge Bridge Project Disturbance Limit Culvert	10' Contour 10' Contour 100' Contour Stream Flow Direction	Proposed Jungjuk Road Proposed Jungjuk Road Unnamed River/Stream Named River/Stream	Associated Engineering Drawings ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon)	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,000 feet DATE: 10/2/2015	DRAWING TITLE: PLAN VIEW ACCESS ROAD WETLANDS MAP FIGURE NO. TA-301A FILE NO. POA-1995-120
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Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings

ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon); 01 Site Plan (PND)

Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC

4720 Business Park Blvd., Suite G-25

Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N

SCALE: 1 inch = 1,000 feet

DATE: 10/27/2015

DRAWING TITLE: **PLAN VIEW ACCESS ROAD ENGINEERING MAP**

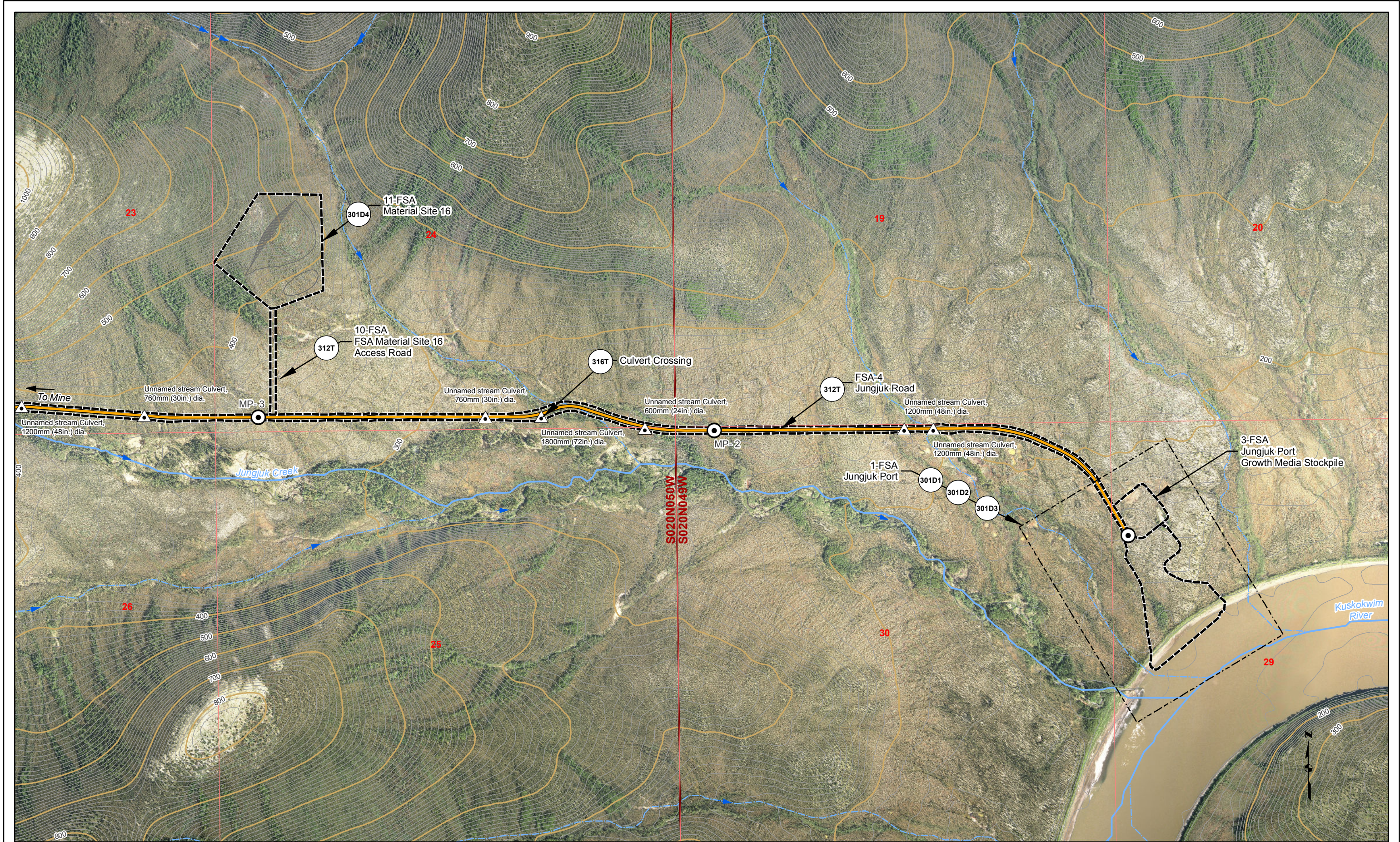
FIGURE NO. **TA-301B**

FILE NO. **POA-1995-120**

0 500 1,000 Feet

PATH: D:\Dropbox\Donlin\181202_010_Mapping_404_Support\Revision_A\TA_3XXB_Road_MB_ABR_20151005.mxd

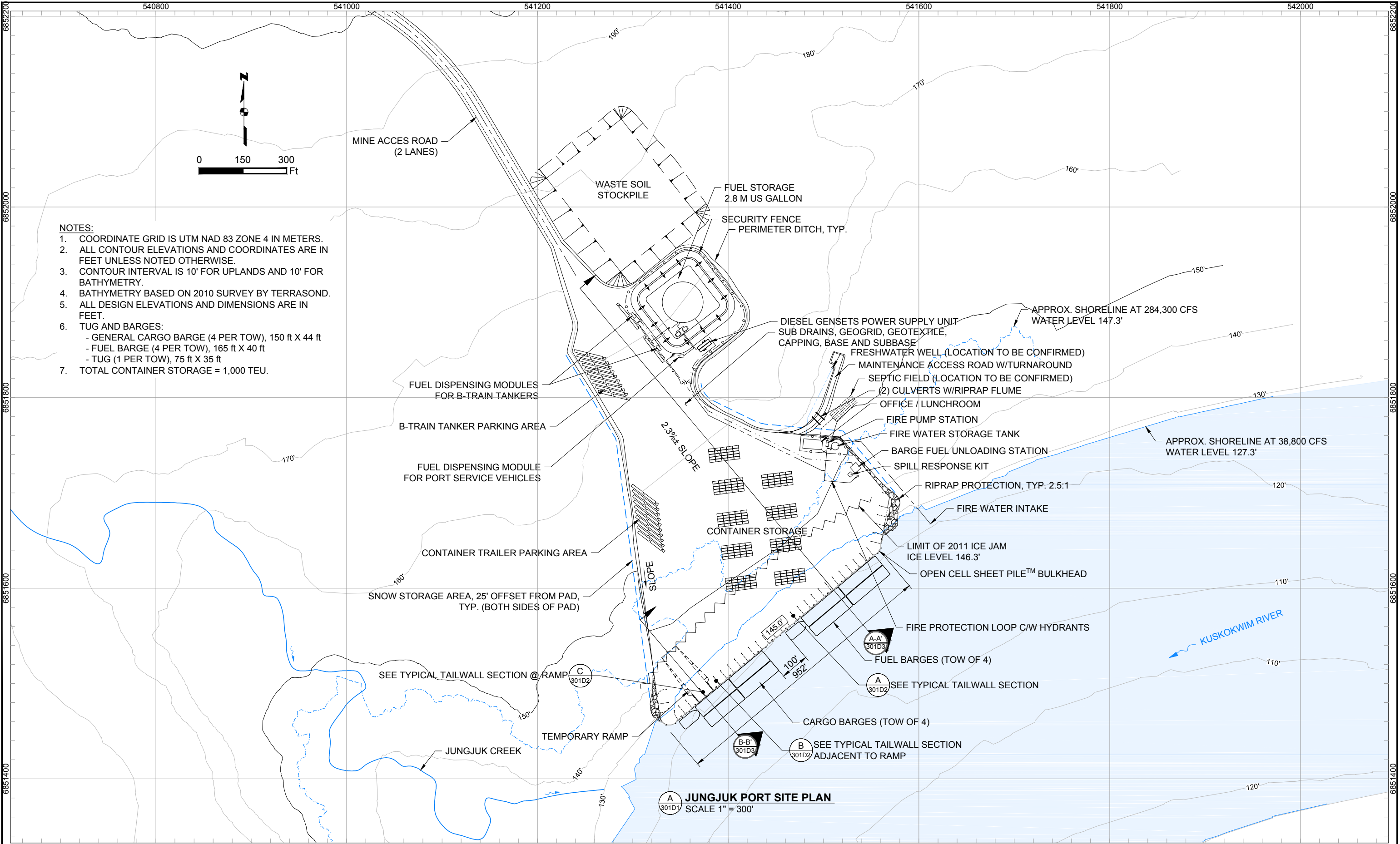
Basemap Source: Sources: Esri, USGS, NOAA



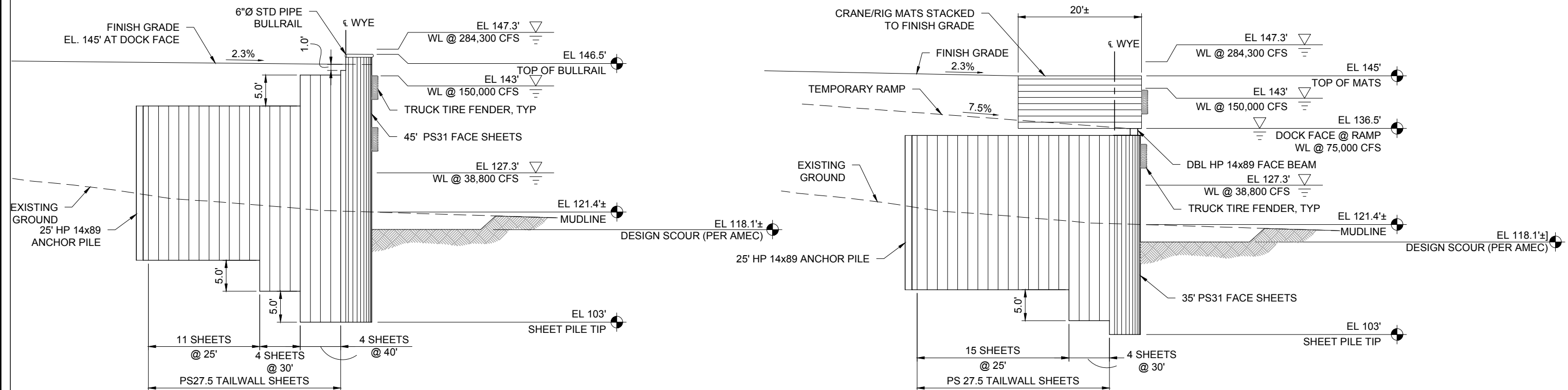
Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);01 Site Plan (PND)		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)		4720 Business Park Blvd., Suite G-25		FILE NO.	
		Anchorage, Alaska 99503		TA-301C	
0 500 1,000 Feet		NAD 1983 UTM Zone 4N		POA-1995-120	
		SCALE: 1 inch = 1,000 feet		DATE: 10/27/2015	

Baseemap Source: Sources: Esri, USGS, NOAA

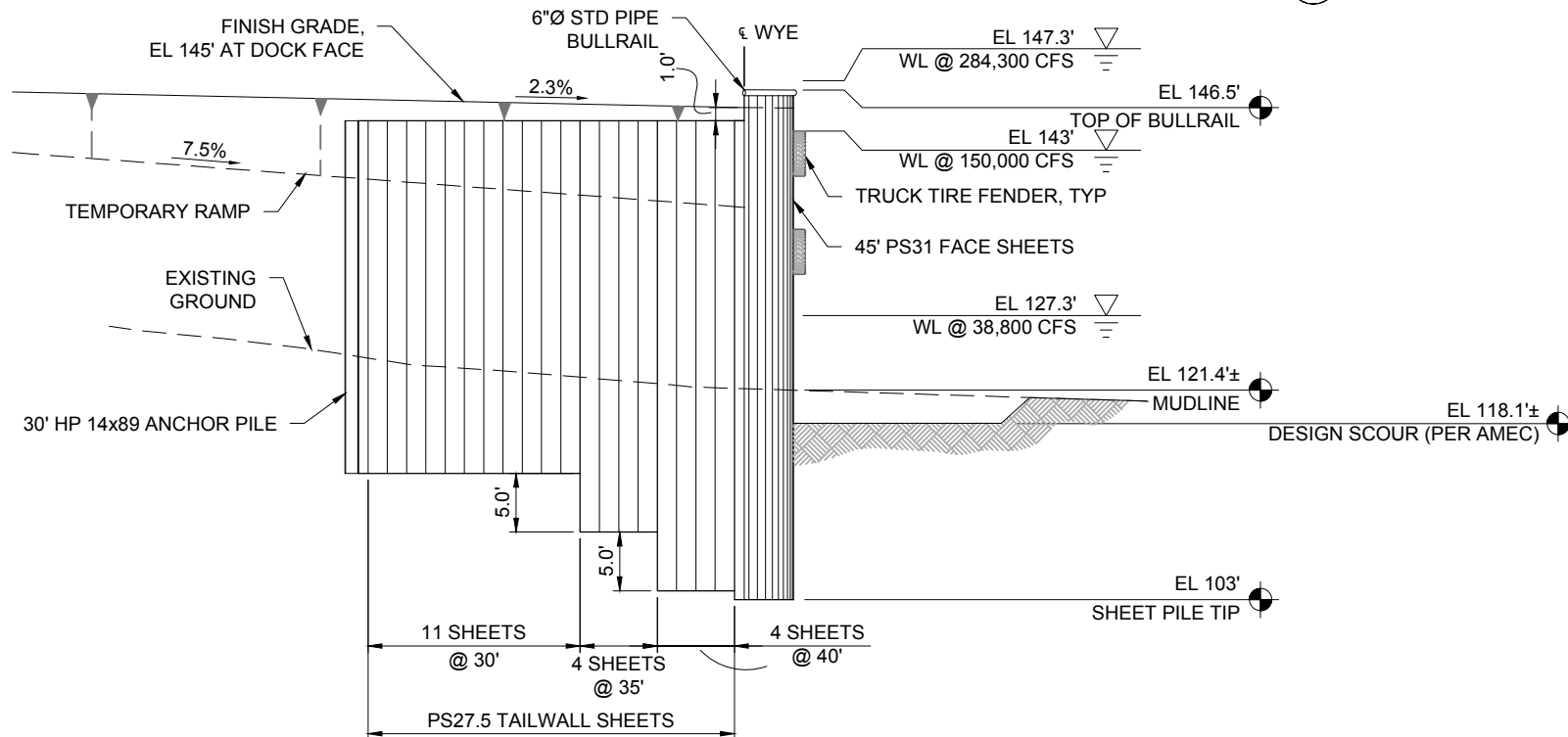


Associated Engineering Drawings	DONLIN GOLD PROJECT		DRAWING TITLE:	
	01 Site Plan.dwg (PND) JUL 2015		JUNGJUK PORT SITE PLAN	
	APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		FIGURE NO.	
	NAD 1983 UTM Zone 4N		FILE NO.	
SCALE:	AS SHOWN	DATE:	10/2/2015	TA-301D1
			POA-1995-120	



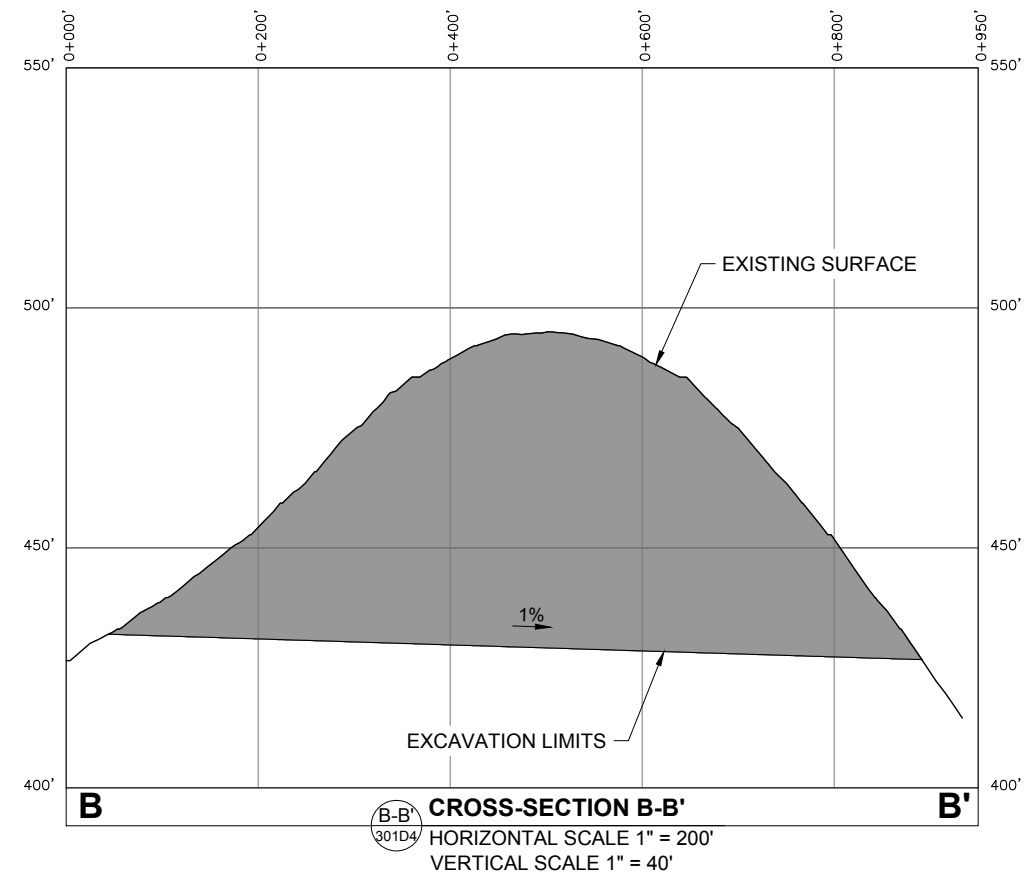
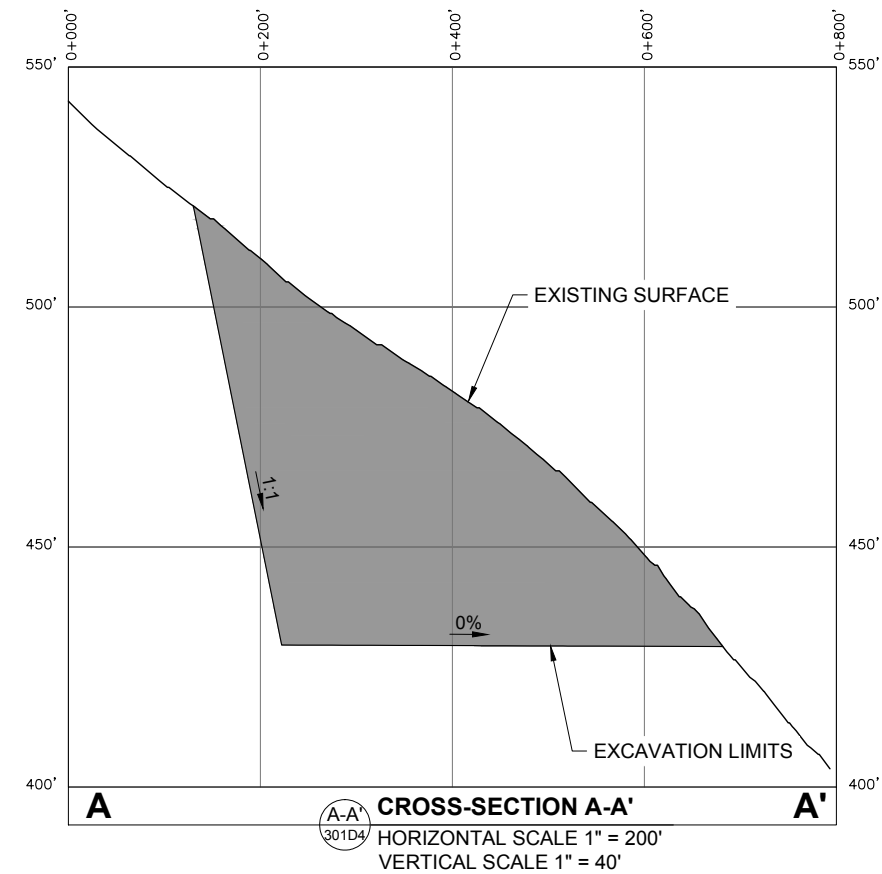
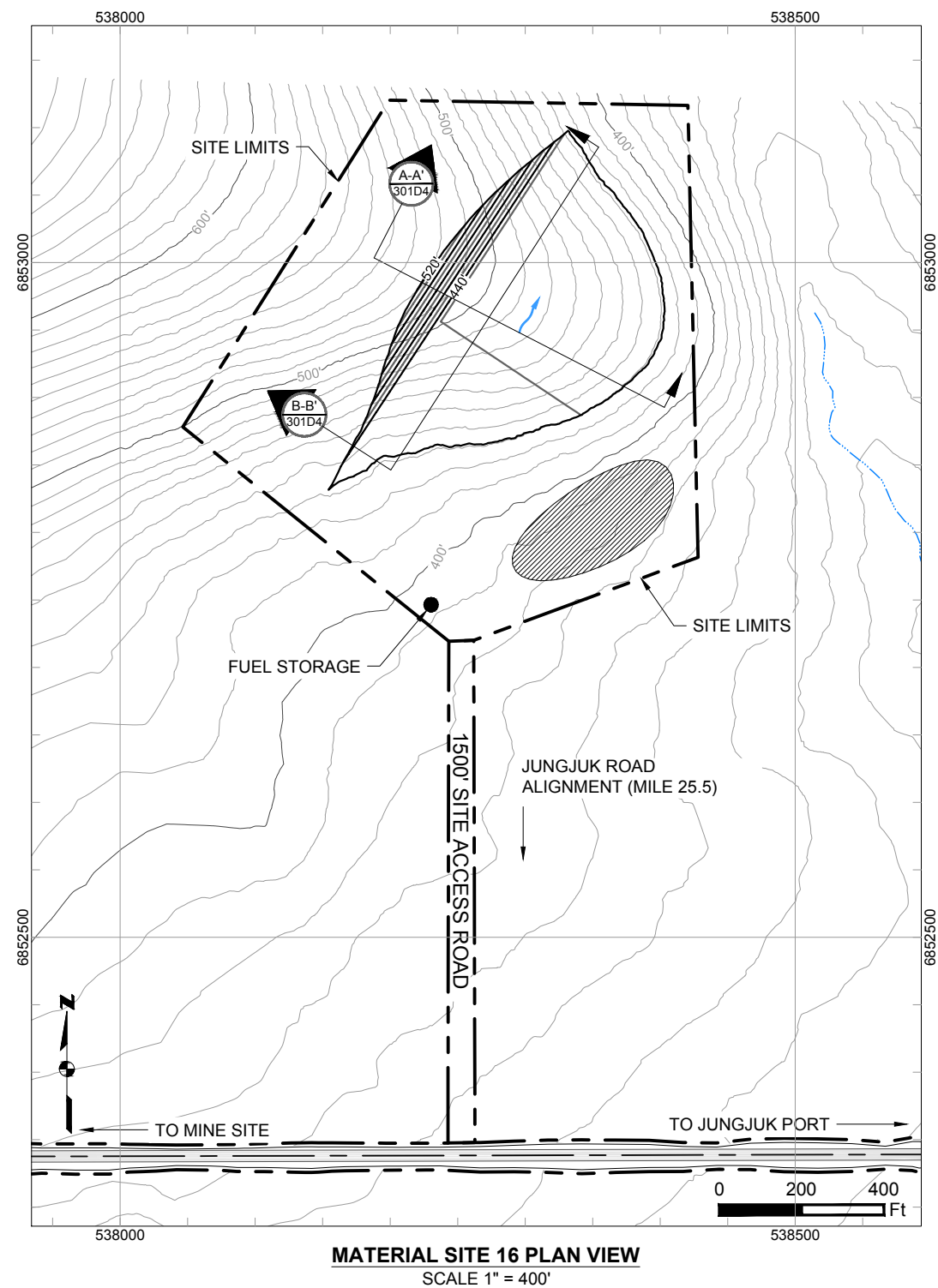
A TYPICAL TAILWALL SECTION
301D2 N.T.S.

C TAILWALL SECTION @ RAMP
301D2 N.T.S.

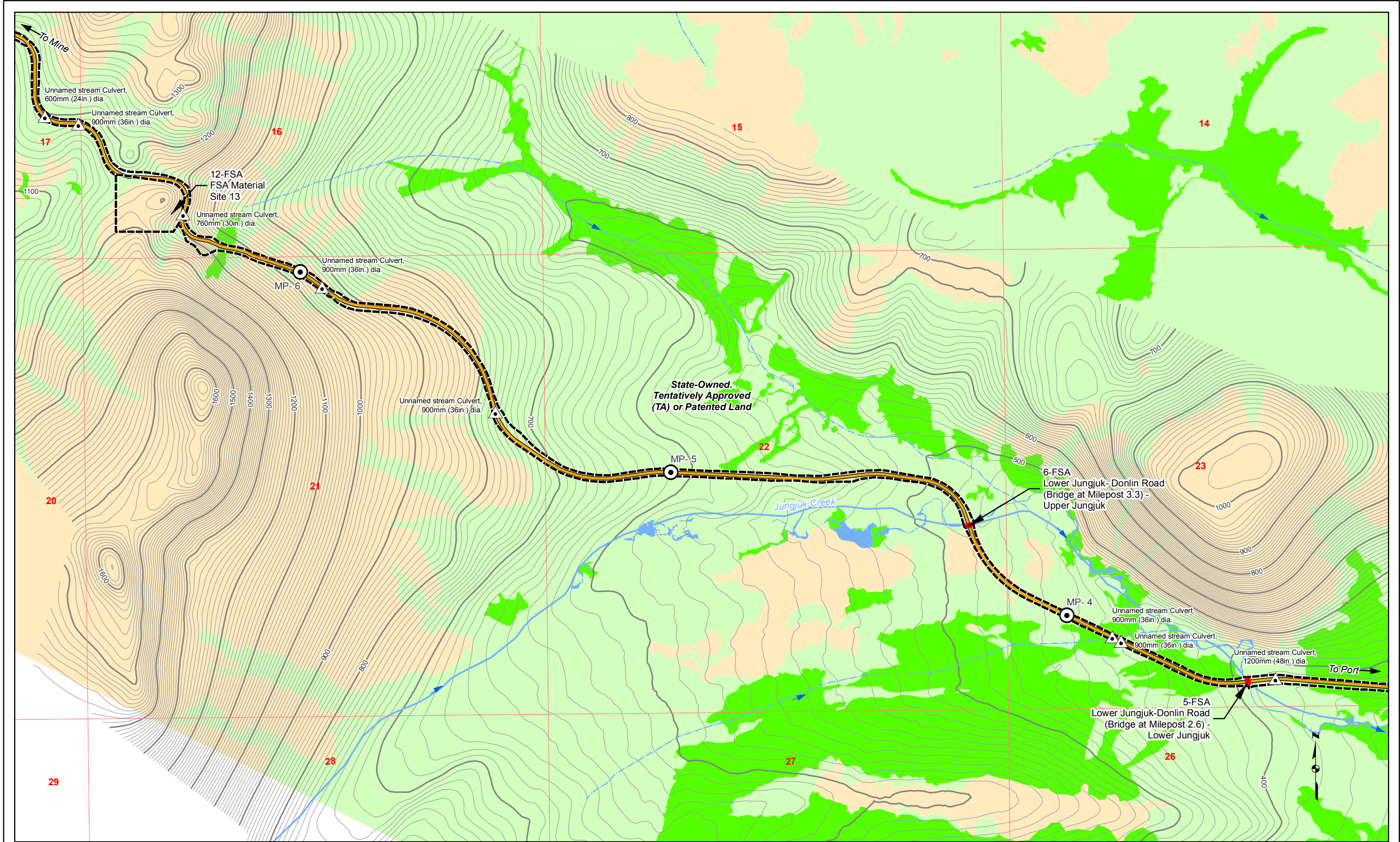


B TAILWALL SECTION ADJACENT TO RAMP
301D2 N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	03 Tailwall Sections.dwg (PND) JUL 2015		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		JUNGJUK PORT TAILWALL SECTIONS	
			NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
SCALE:	AS SHOWN		DATE:	8/11/2015	TA-301D2	POA-1995-120



Existing 10' Contours Existing 50' Contours Proposed 10' Contours Proposed 20' Contours		Cut Area Proposed Drainage Direction Overburden And Growth Media Stockpile Temporary Fuel Storage		Associated Engineering Drawings Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: AS SHOWN DATE: 8/11/2015		DRAWING TITLE: MATERIAL SITE 16 LAYOUT AND SECTIONS FIGURE NO. TA-301D4 FILE NO. POA-1995-120	
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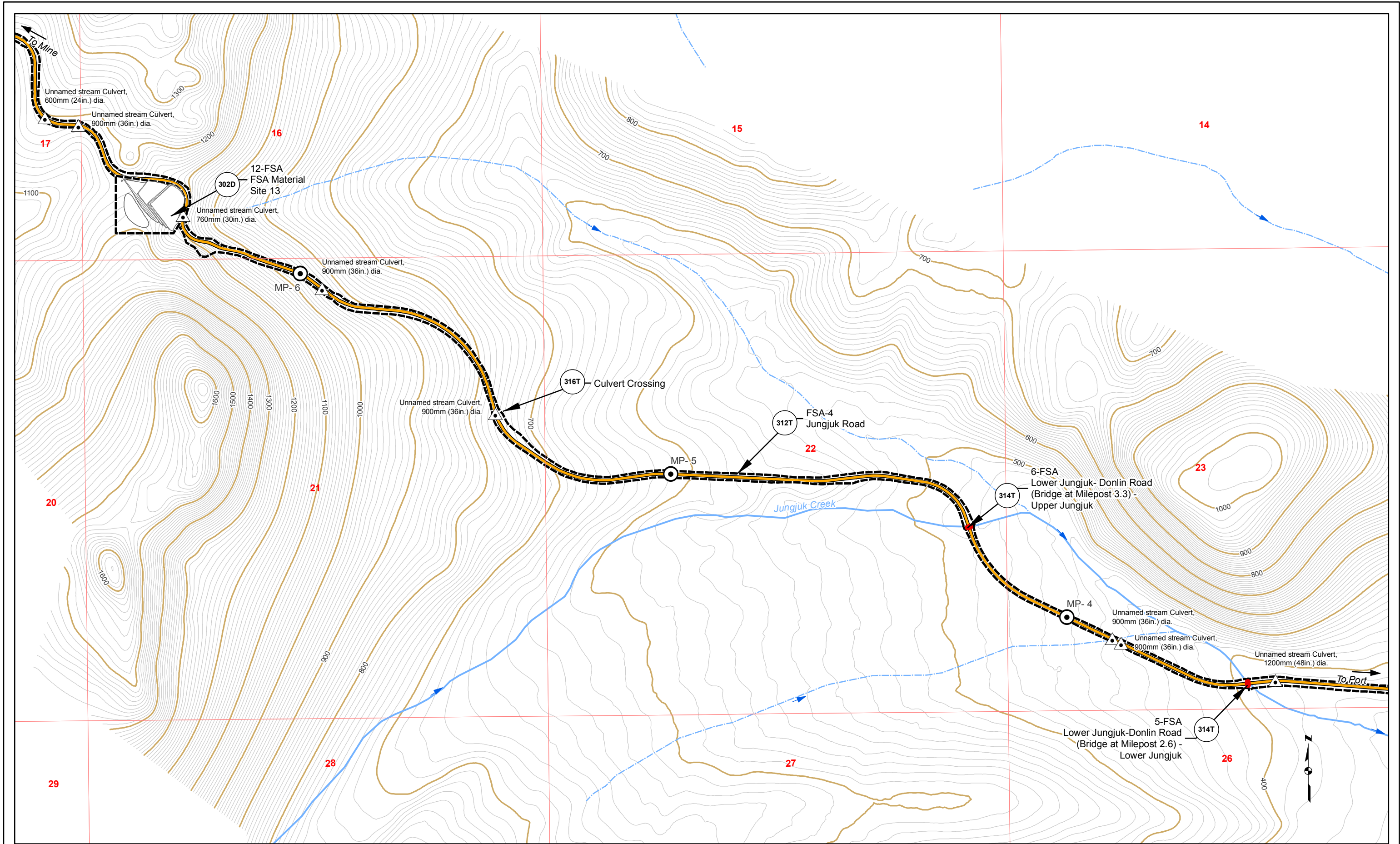
Land Status	Mosaic	Waters	Bridge	10' Contour	Proposed Jungjuk Road
Road Milepost	Upland	Wetlands	Project Disturbance Limit	100' Contour	Unnamed River/Stream
Powerline	Culvert	Stream Flow Direction	Named River/Stream		

Associated Engineering Drawings	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon)	

DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: 1 inch = 1,000 feet	DATE: 8/12/2015

DRAWING TITLE: PLAN VIEW ACCESS ROAD WETLANDS MAP	
FIGURE NO. TA-302A	FILE NO. POA-1995-120

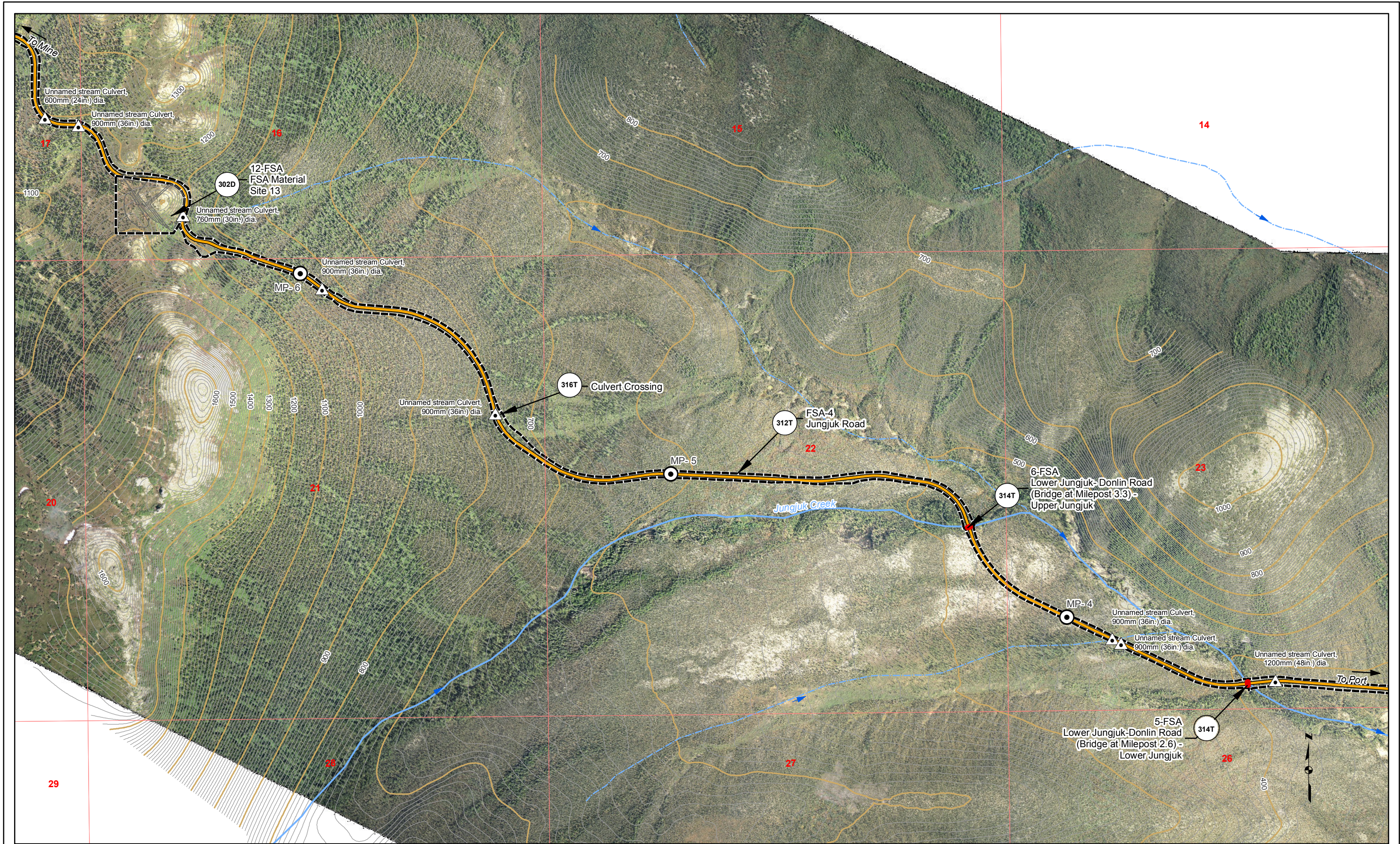
Baseemap Source: Sources: Esri, USGS, NOAA



Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
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		Anchorage, Alaska 99503		TA-302B	
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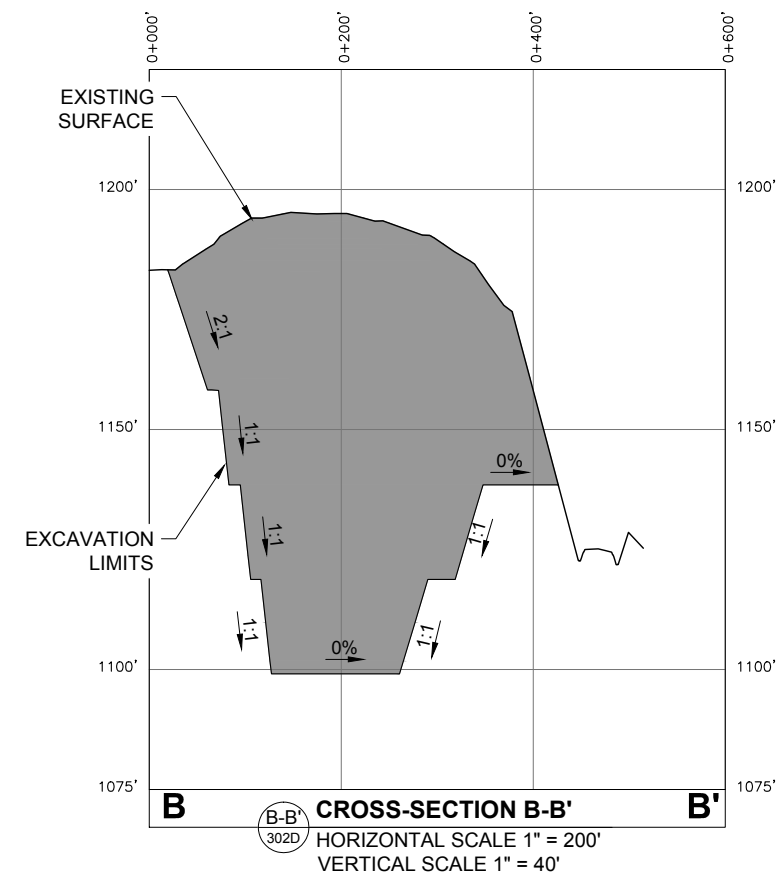
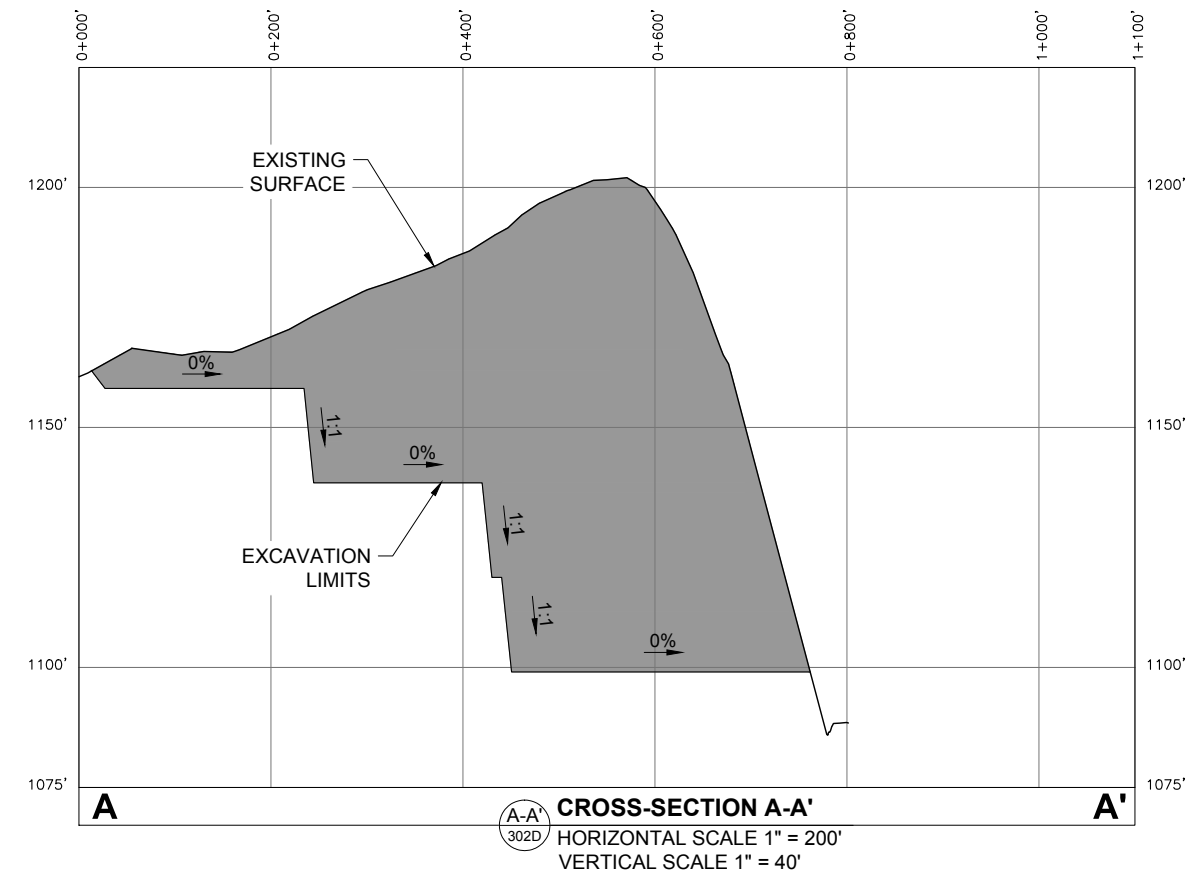
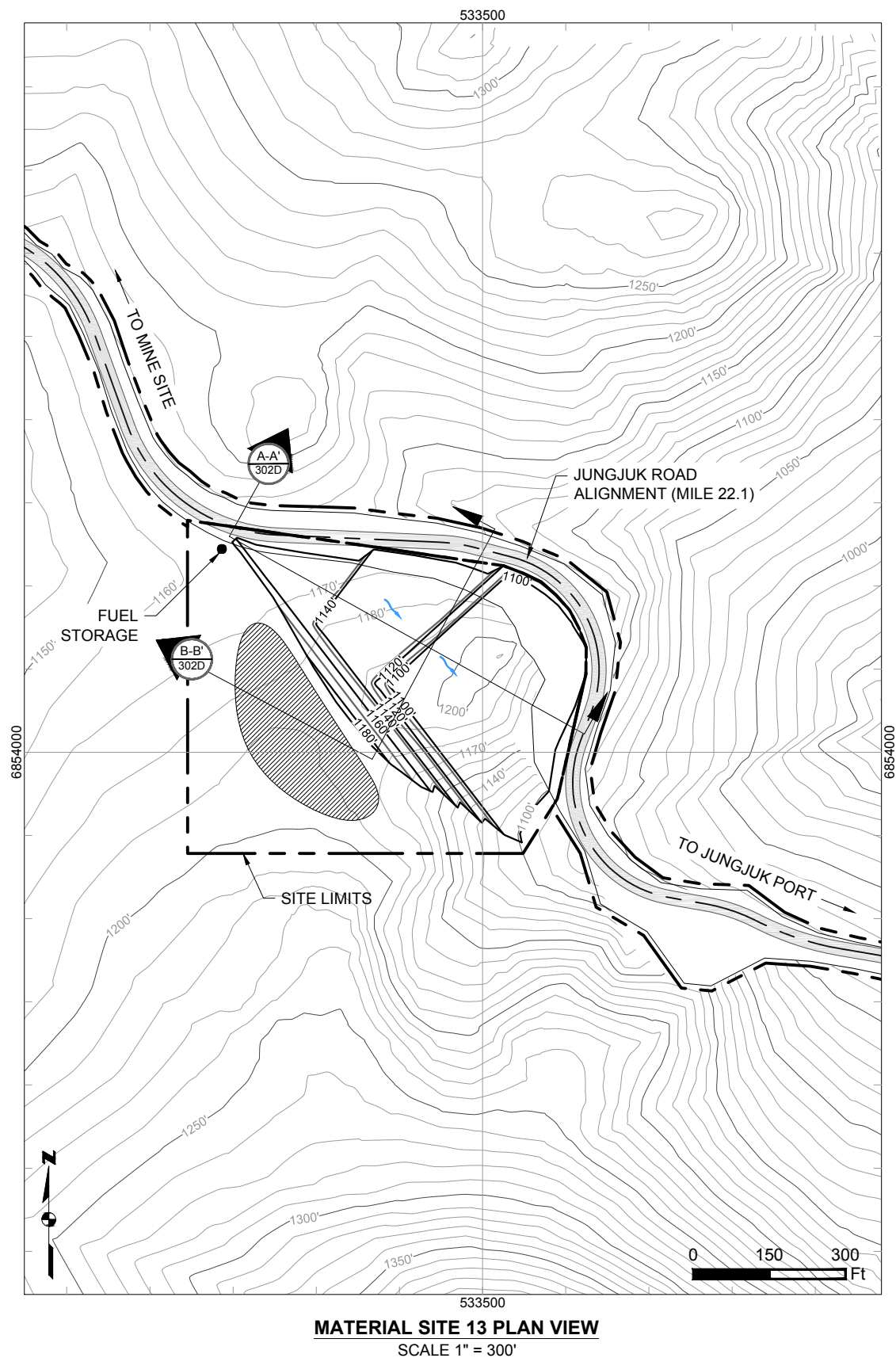
Base map Source: Sources: Esri, USGS, NOAA



Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

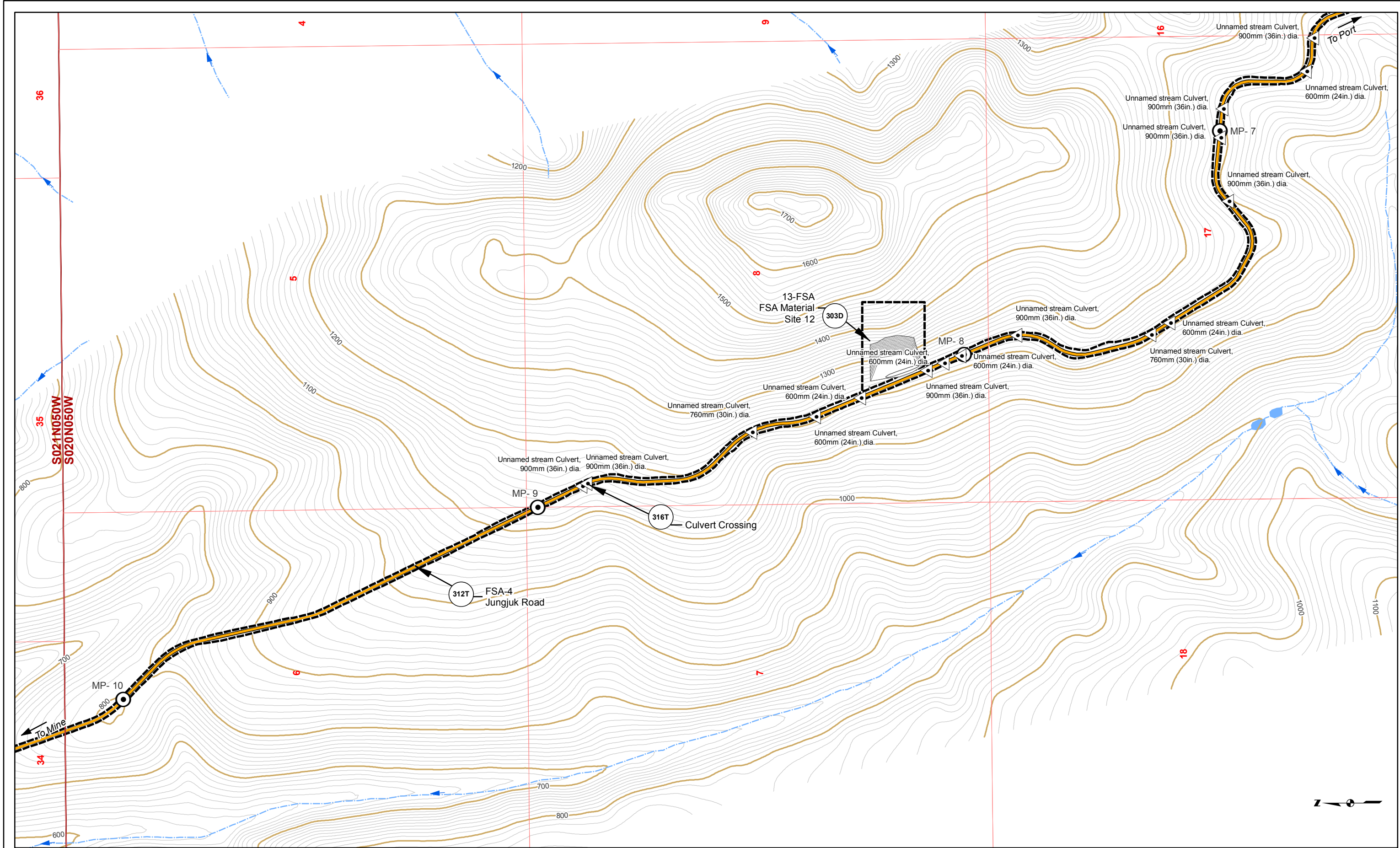
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		SCALE: 1 inch = 1,000 feet		DATE: 8/12/2015	

Base map Source: Sources: Esri, USGS, NOAA



Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
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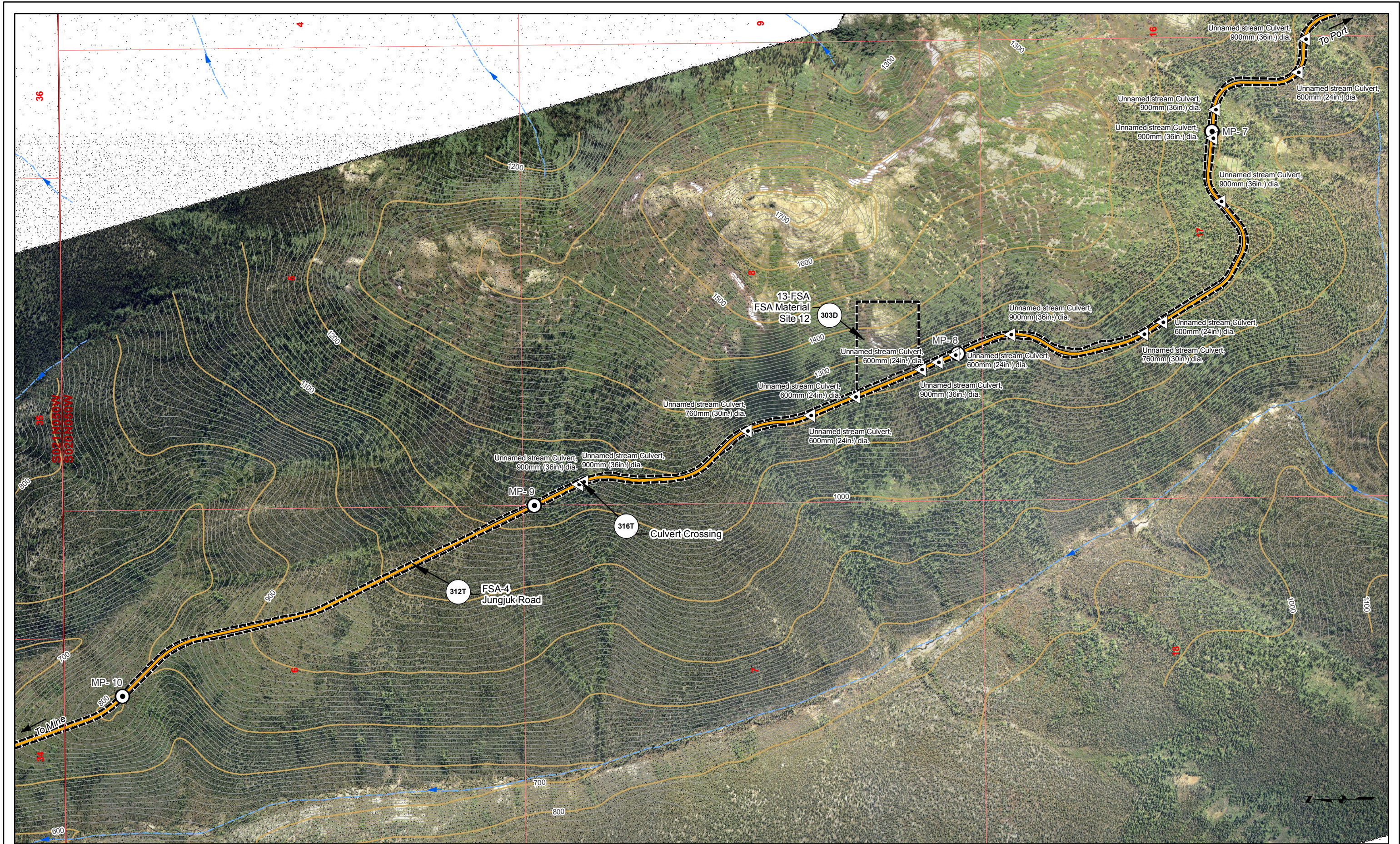
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Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
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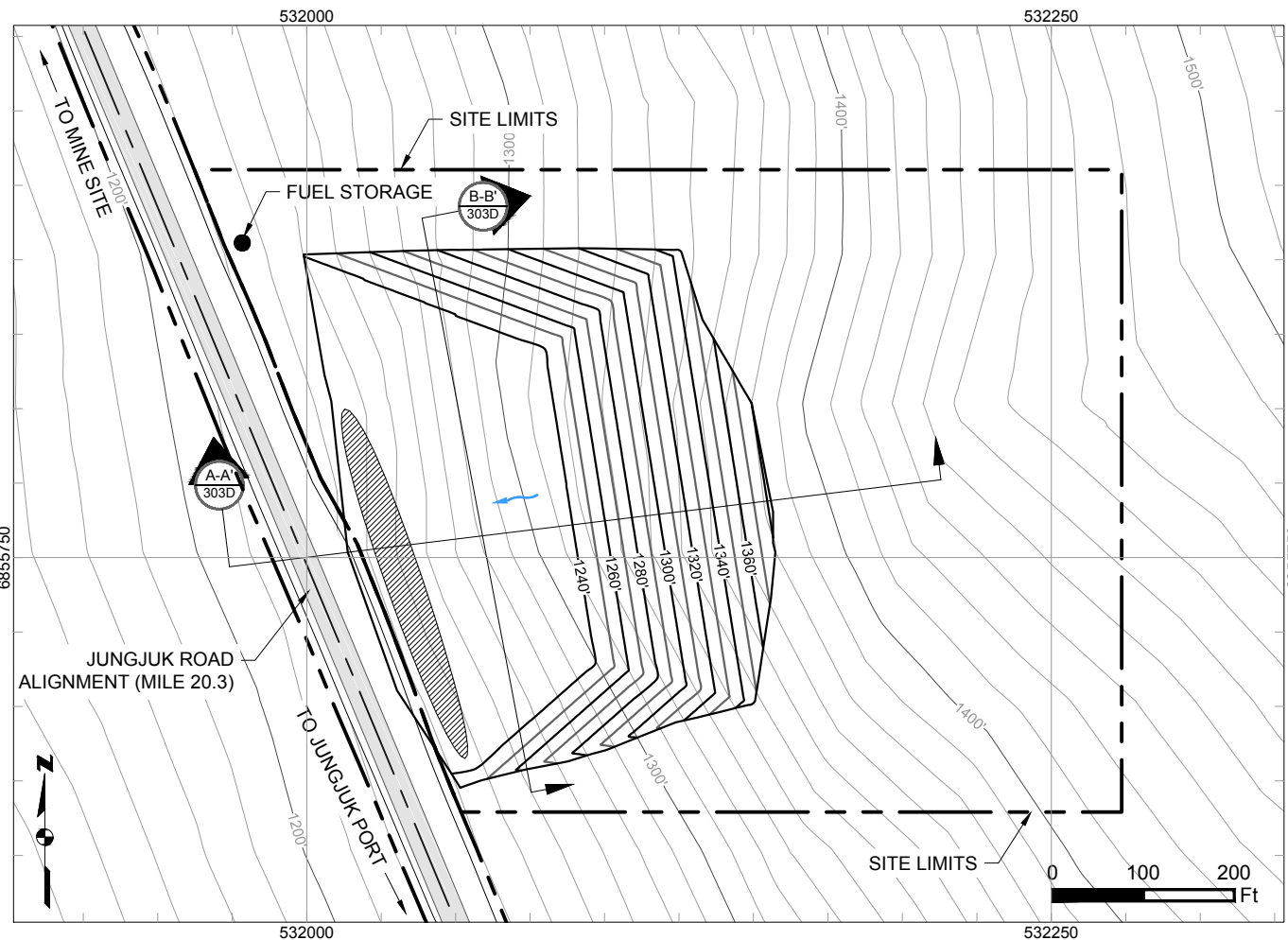
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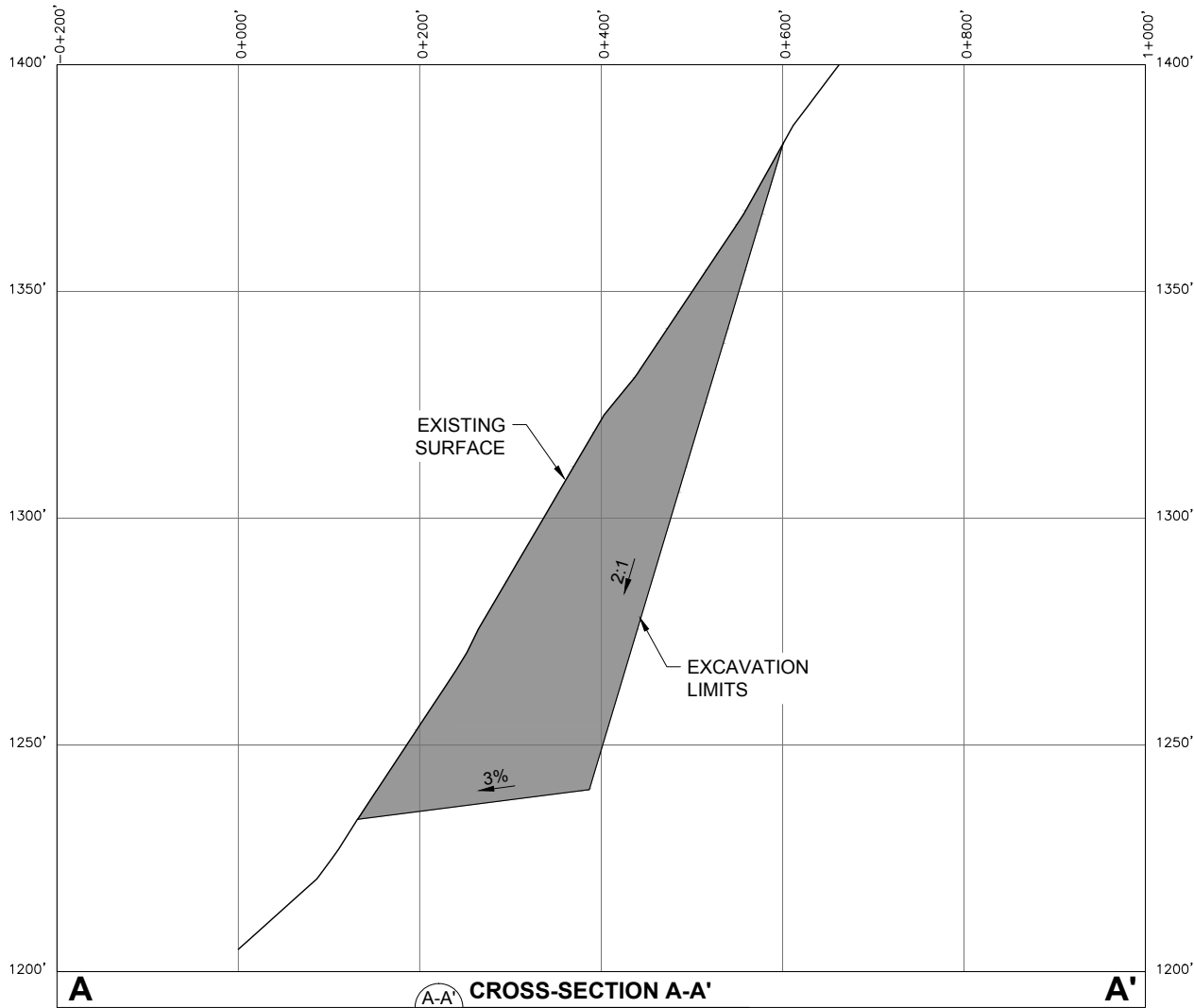
Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
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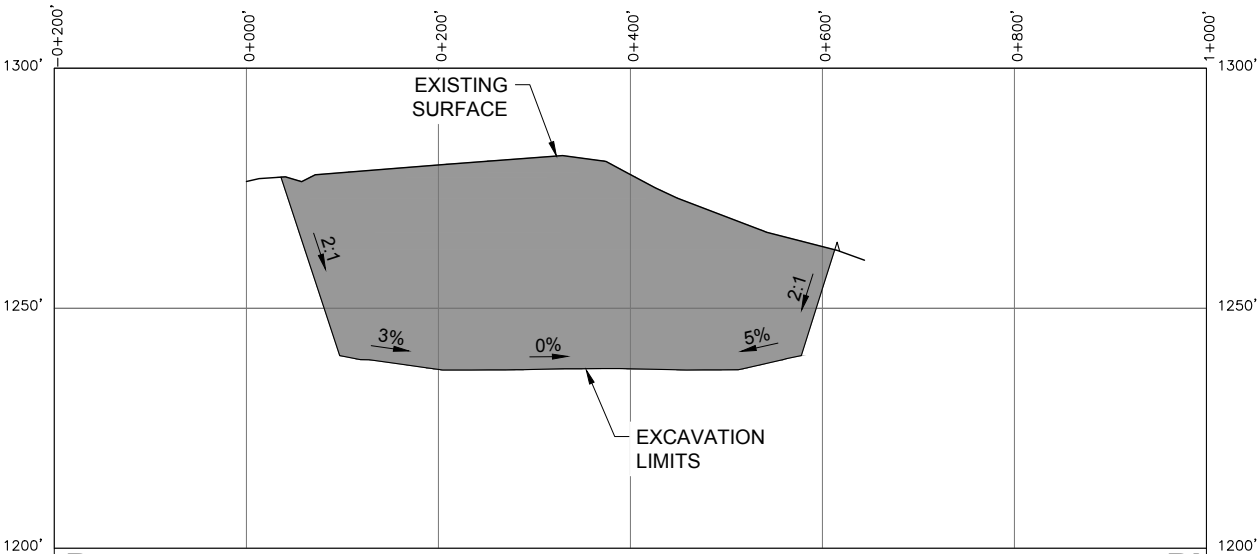
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MATERIAL SITE 12 PLAN VIEW
SCALE 1" = 200'

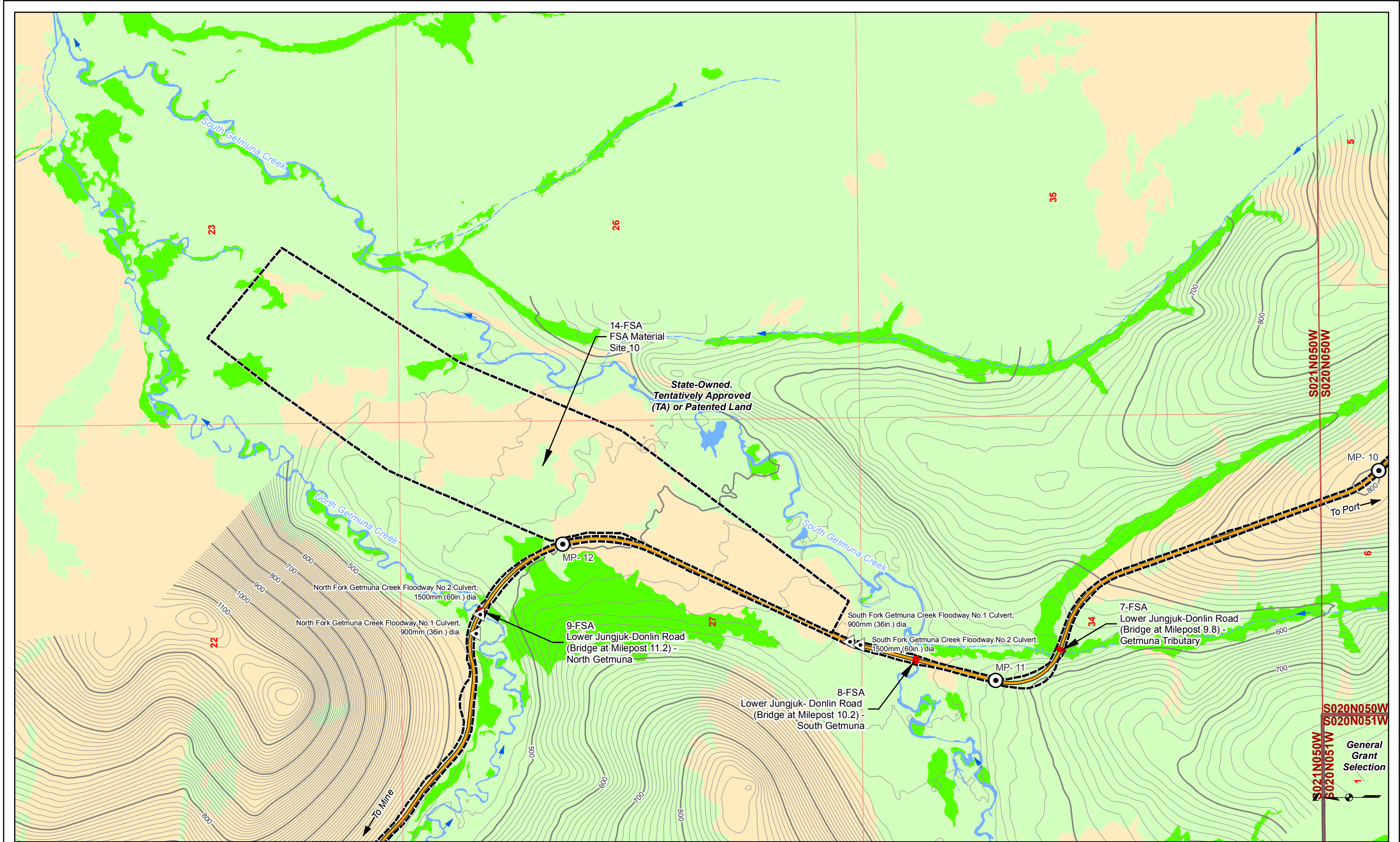


CROSS-SECTION A-A'
HORIZONTAL SCALE 1" = 200'
VERTICAL SCALE 1" = 40'



CROSS-SECTION B-B'
HORIZONTAL SCALE 1" = 200'
VERTICAL SCALE 1" = 40'

Existing 10' Contours Existing 50' Contours Proposed 10' Contours Proposed 20' Contours Cut Area Proposed Drainage Direction Overburden And Growth Media Stockpile Temporary Fuel Storage			Associated Engineering Drawings Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: MATERIAL SITE 12 LAYOUT AND SECTIONS	
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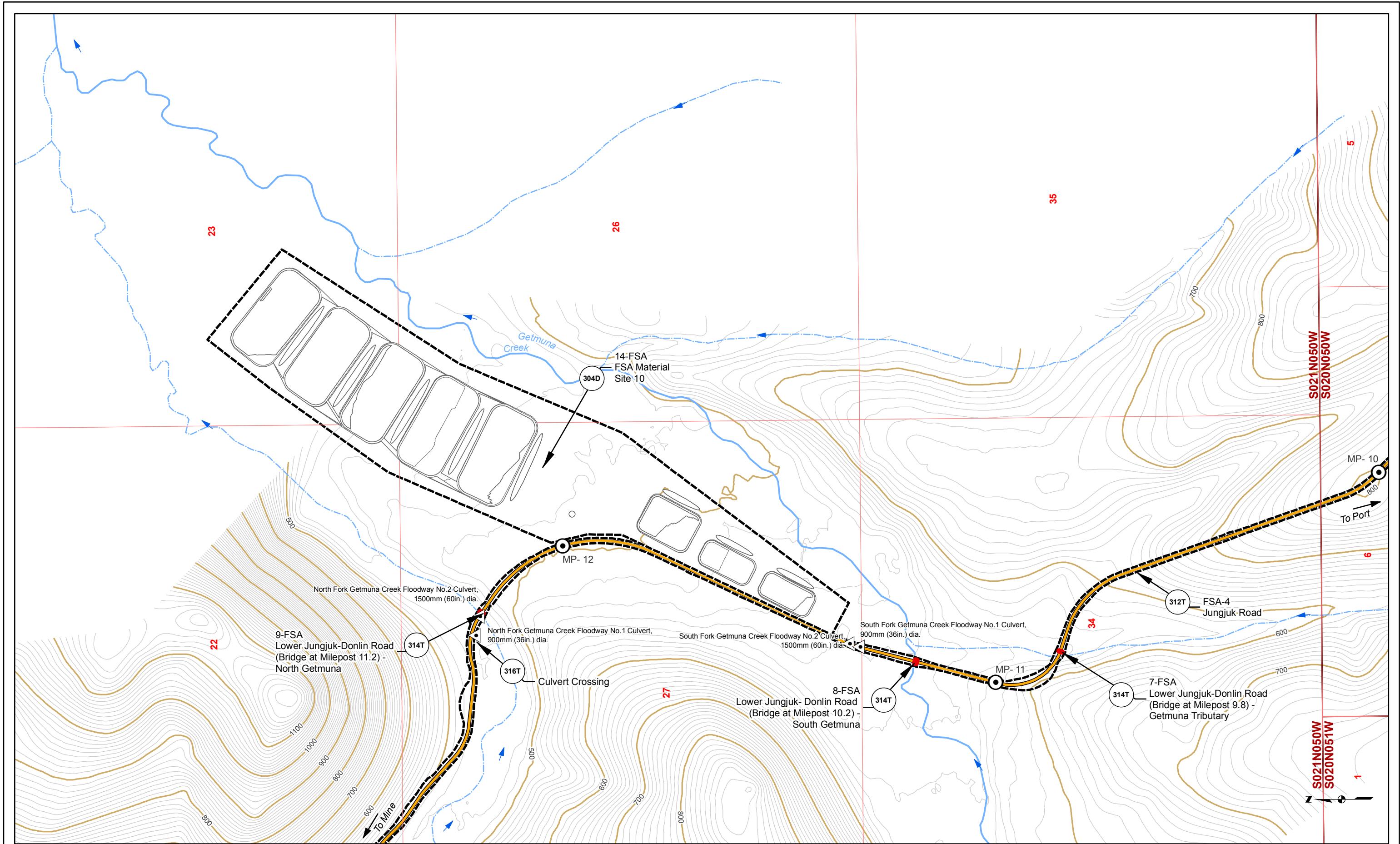
Land Status Mosaic Waters Bridge 10' Contour Proposed Jungjuk Road Road Milepost Upland Wetlands Project Disturbance Limit 100' Contour Unnamed River/Stream Powerline Culvert Stream Flow Direction Named River/Stream	Associated Engineering Drawings ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon) 05001000 Feet	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,000 feet DATE: 8/12/2015	DRAWING TITLE: PLAN VIEW ACCESS ROAD WETLANDS MAP FIGURE NO. TA-304A FILE NO. POA-1995-120
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General Grant Selection

S021N050W S020N050W S020N051W S021N051W

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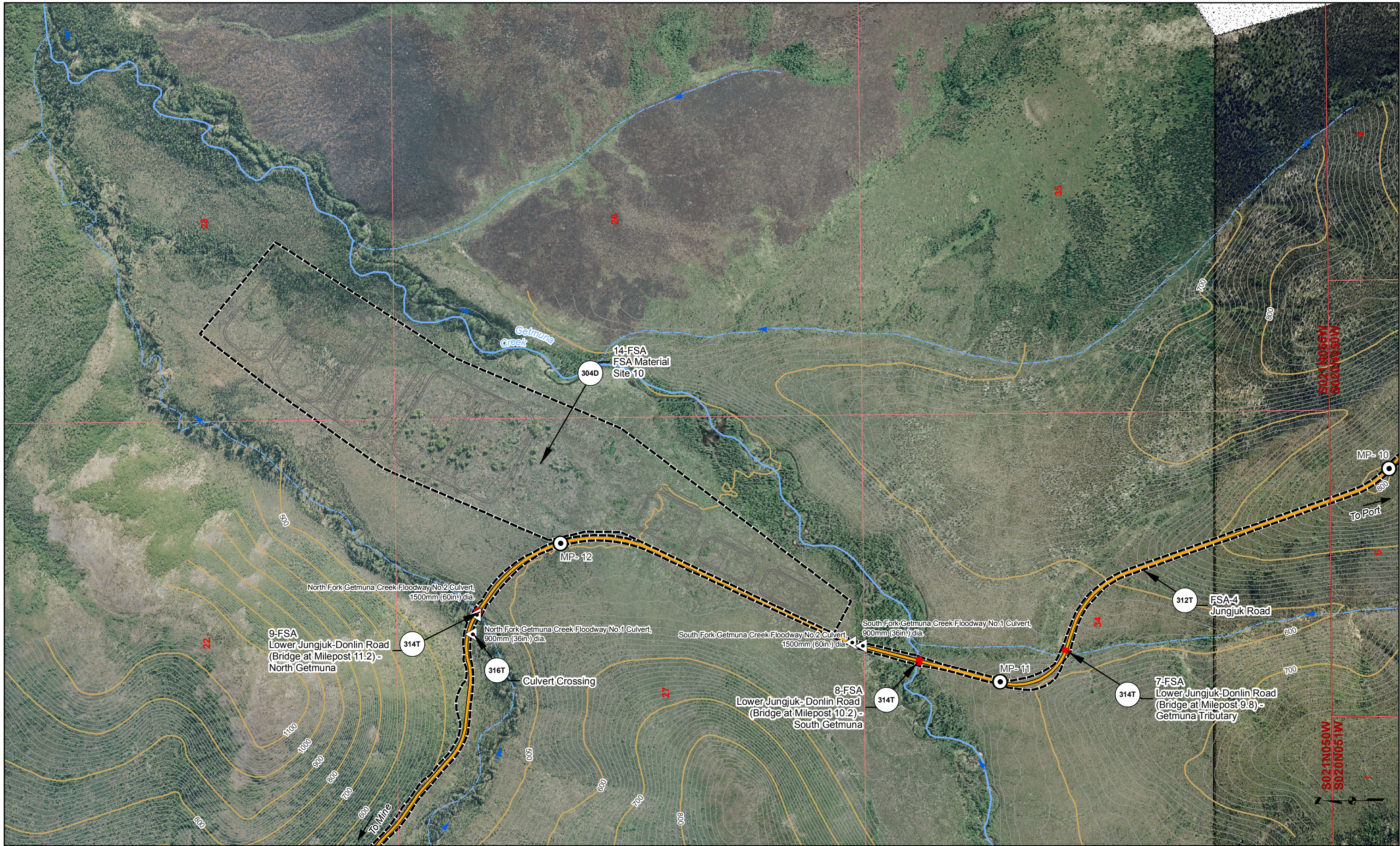
Base map Source: Sources: Esri, USGS, NOAA



Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)		4720 Business Park Blvd., Suite G-25		FILE NO.	
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0 500 1,000 Feet		NAD 1983 UTM Zone 4N		POA-1995-120	
		SCALE: 1 inch = 1,000 feet		DATE: 8/12/2015	

Base map Source: Sources: Esri, USGS, NOAA

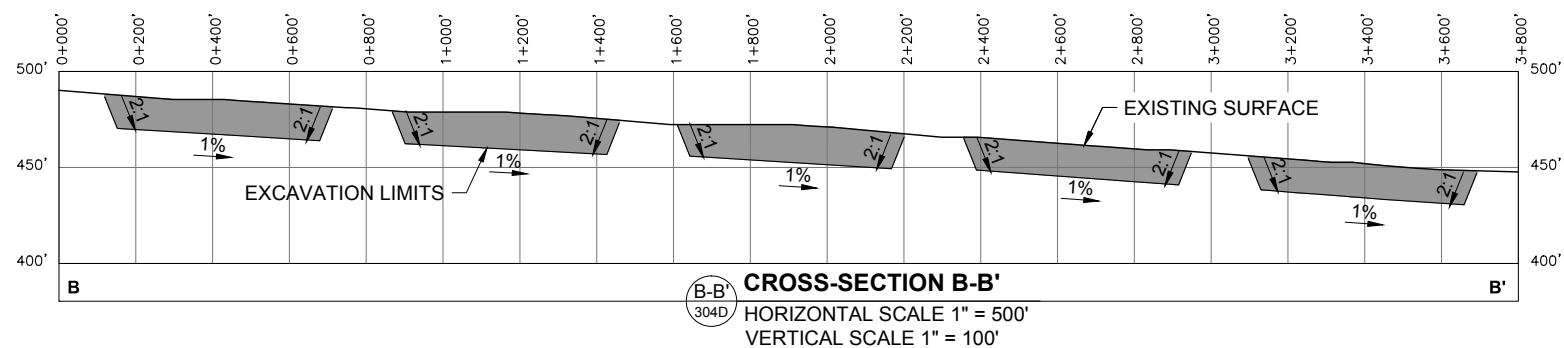
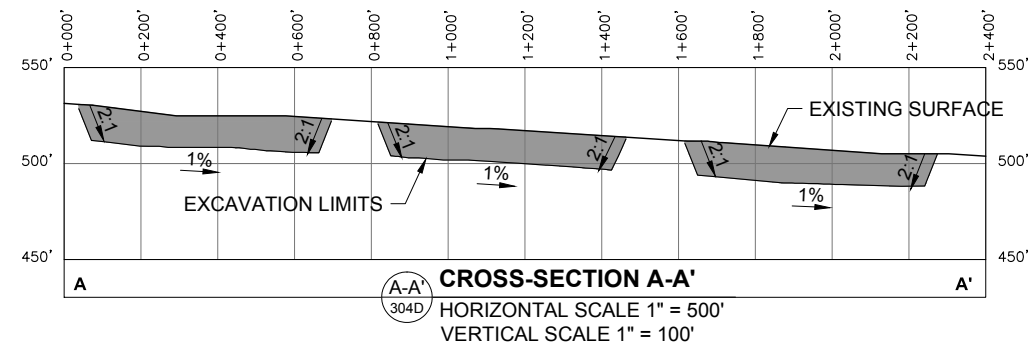
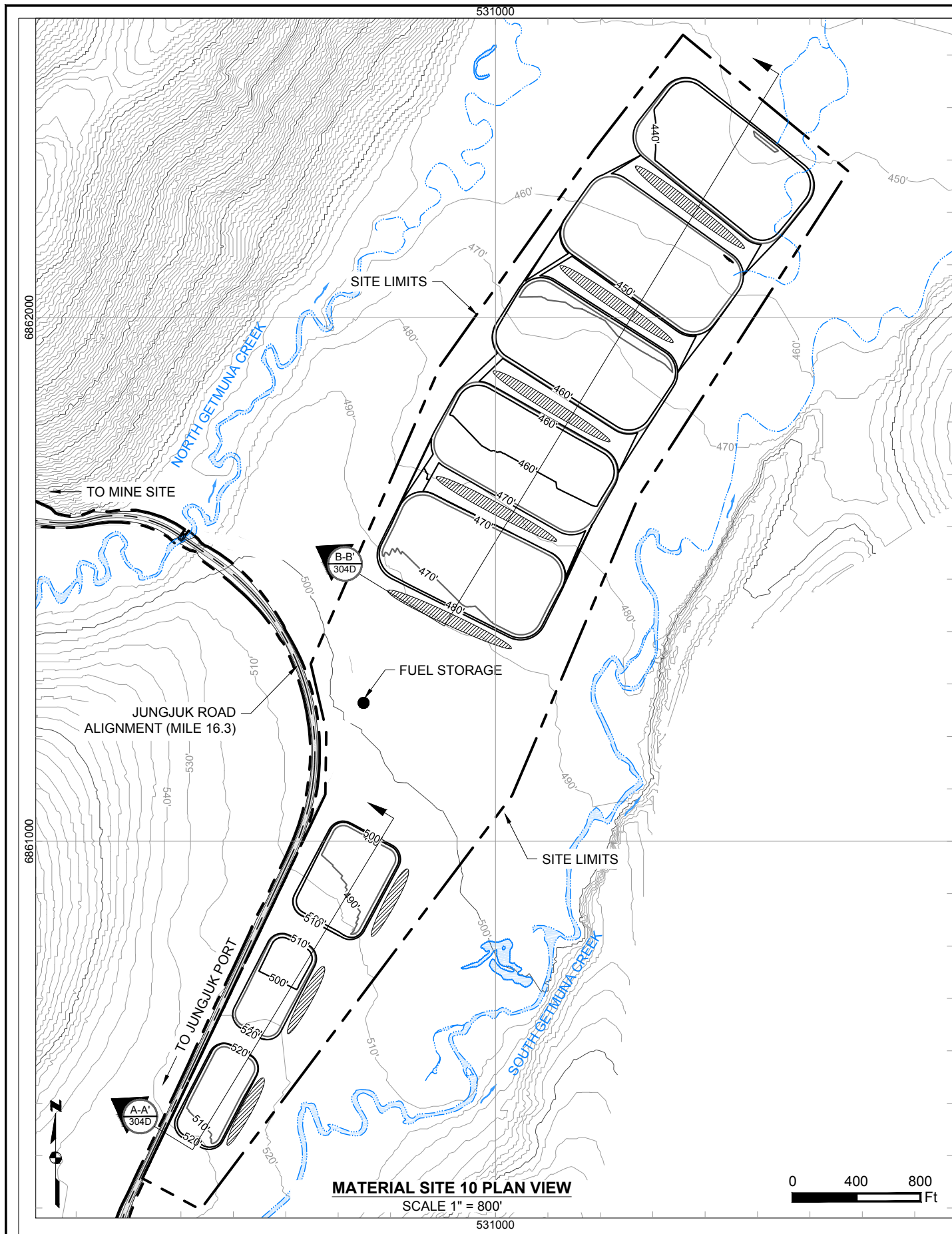


Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)	
0 500 1,000 Feet	

DONLIN GOLD PROJECT	
APPLICANT: Donlin Gold, LLC	
4720 Business Park Blvd., Suite G-25	
Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: 1 inch = 1,000 feet	DATE: 8/12/2015

DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
FIGURE NO. TA-304C	FILE NO. POA-1995-120



Existing 10' Contours	Cut Area
Existing 50' Contours	Proposed Drainage Direction
Proposed 10' Contours	Overburden And Growth Media Stockpile
Proposed 20' Contours	Temporary Fuel Storage

Associated Engineering Drawings

Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015

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

NAD 1983 UTM Zone 4N

SCALE: AS SHOWN

DATE: 8/11/2015

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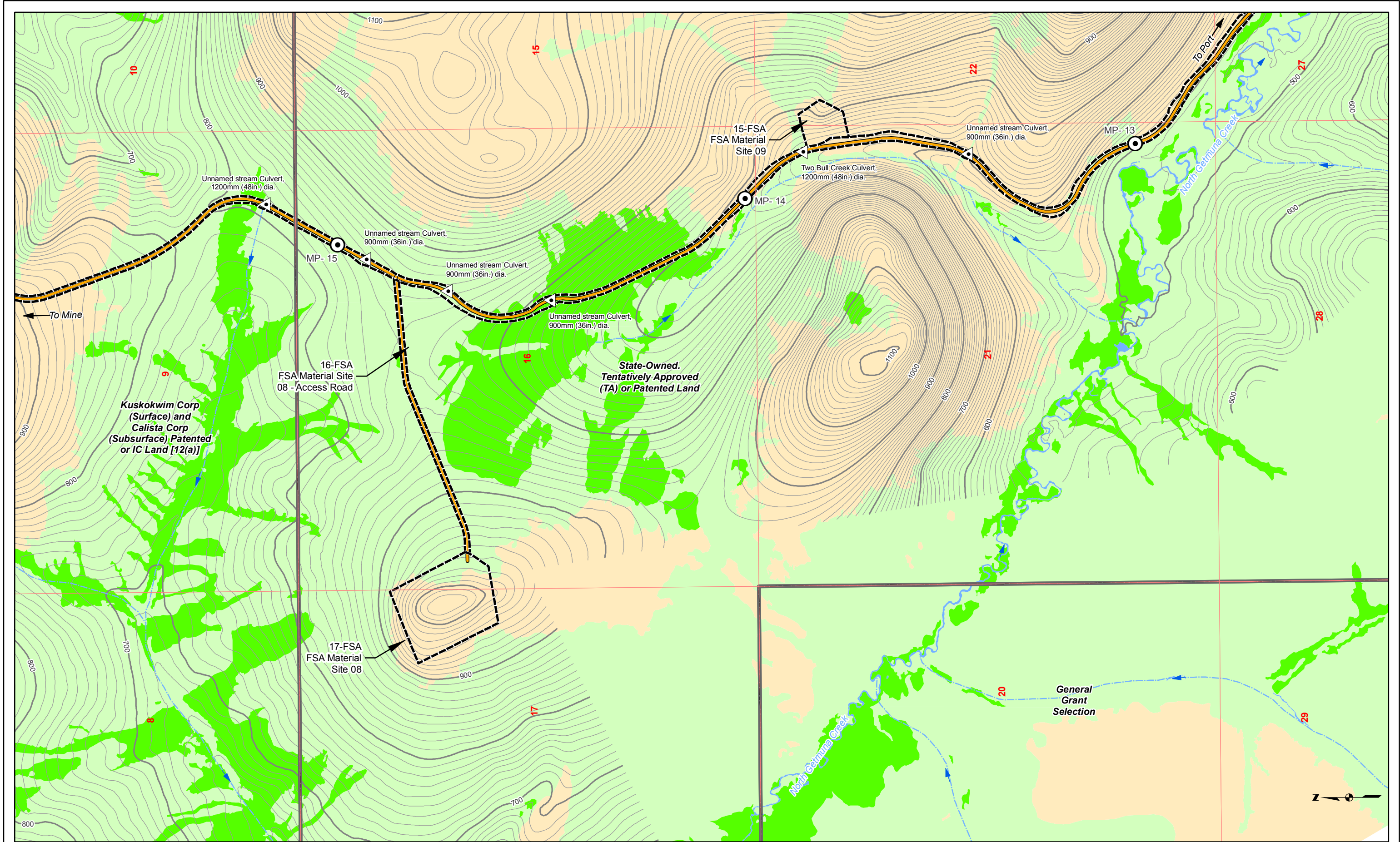
**MATERIAL SITE 10
LAYOUT AND SECTIONS**

FIGURE NO.

TA-304D

FILE NO.

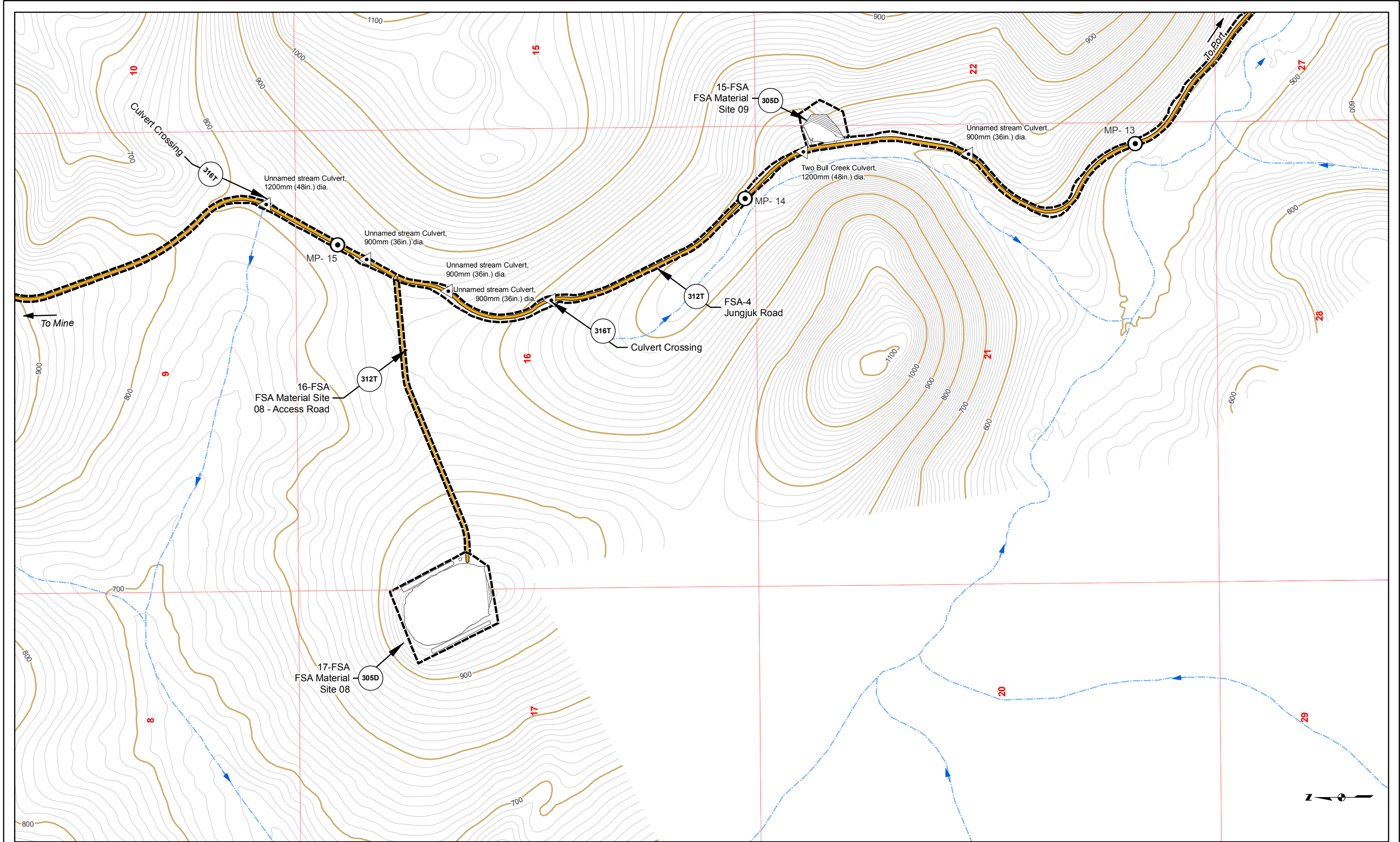
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Land Status Road Milepost Mosaic Upland Waters Wetlands Bridge Project Disturbance Limit Powerline Culvert 10' Contour 100' Contour Stream Flow Direction Named River/Stream Proposed Jungjuk Road Unnamed River/Stream Associated Engineering Drawings ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon) 05001,000 Feet DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,000 feet DATE: 8/12/2015 DRAWING TITLE: PLAN VIEW ACCESS ROAD WETLANDS MAP FIGURE NO. TA-305A FILE NO. POA-1995-120

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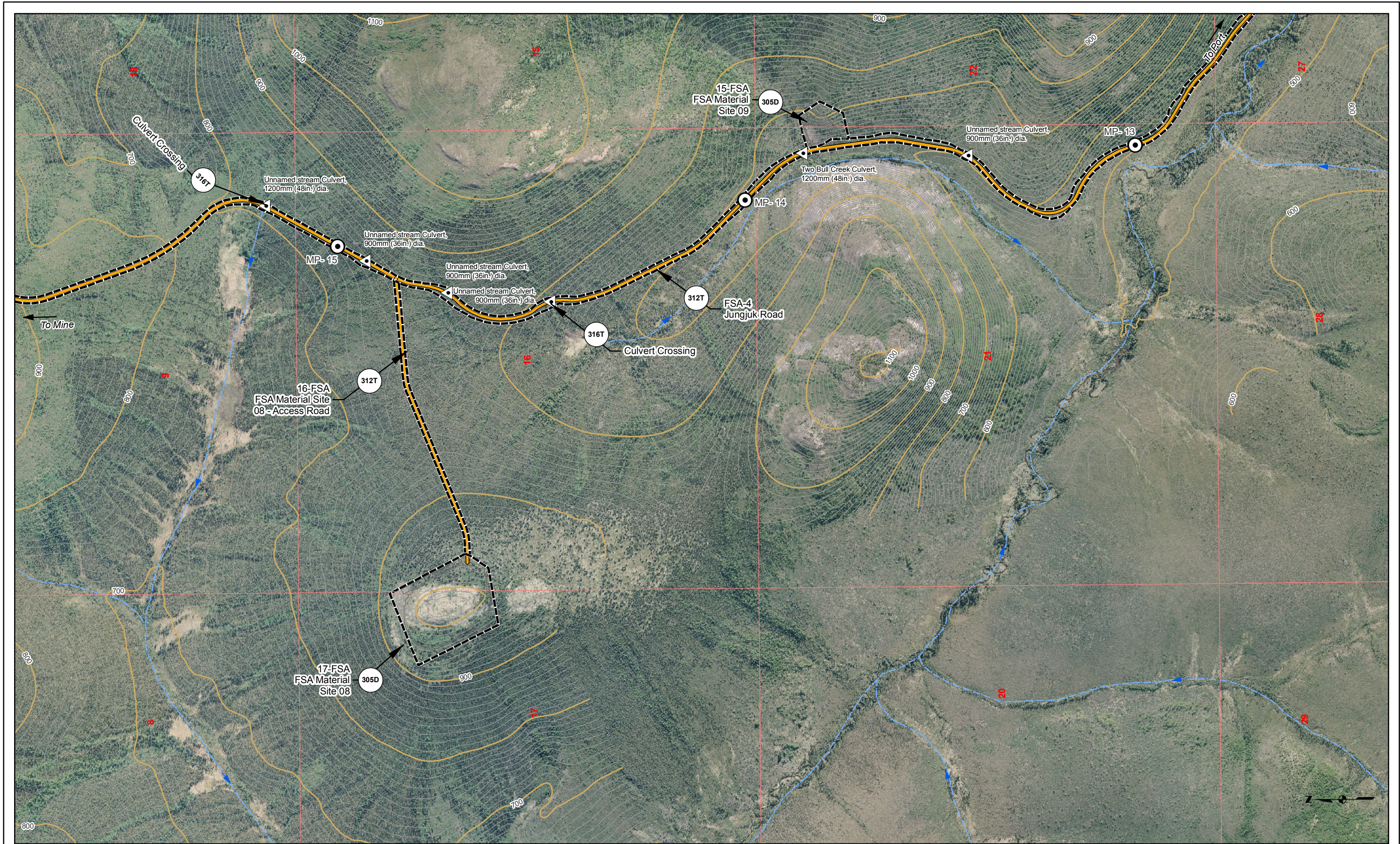
Basemap Source: Sources: Esri, USGS, NOAA



Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert	Stream Flow Direction	Figure Detail Reference		

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
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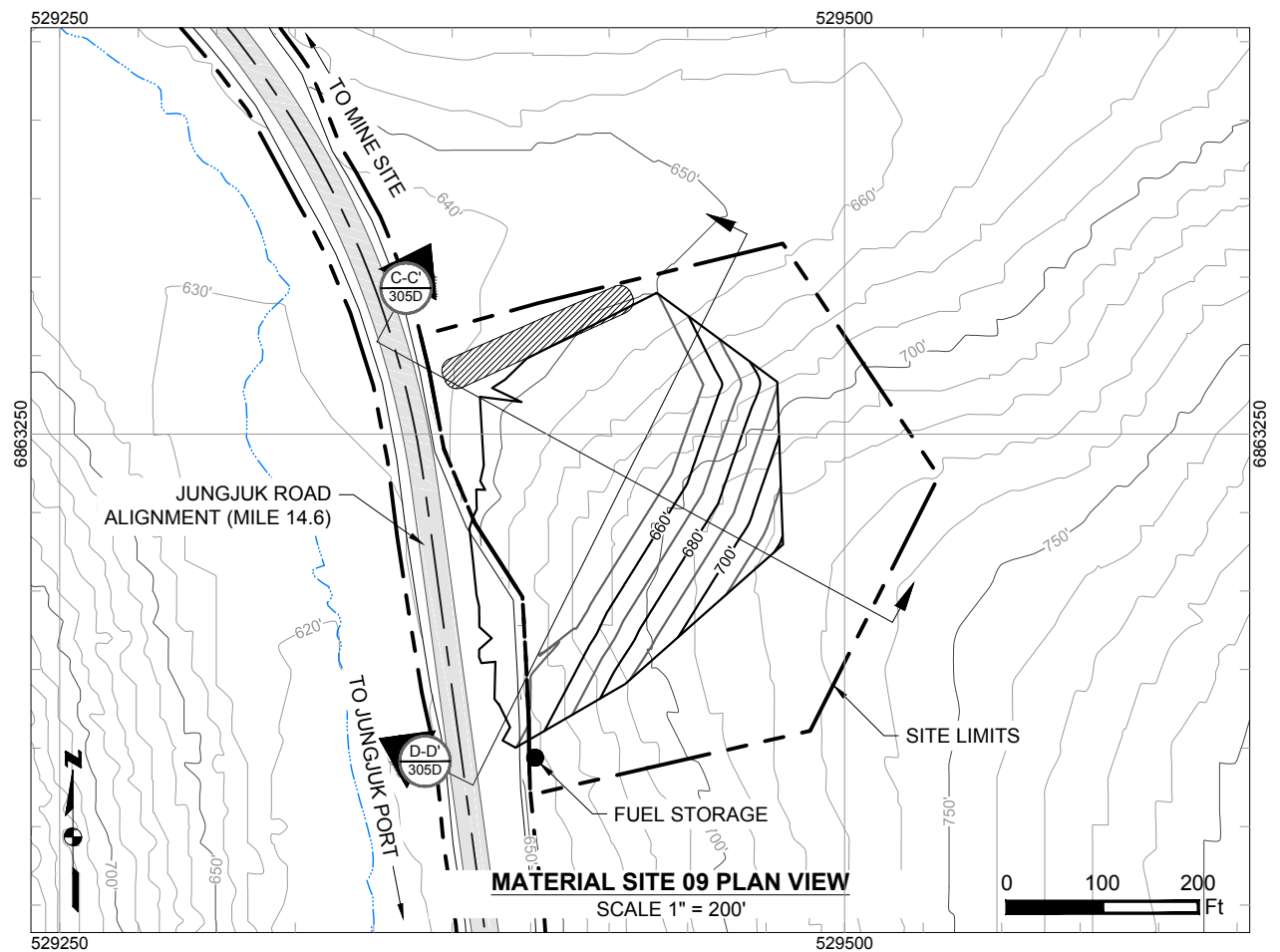
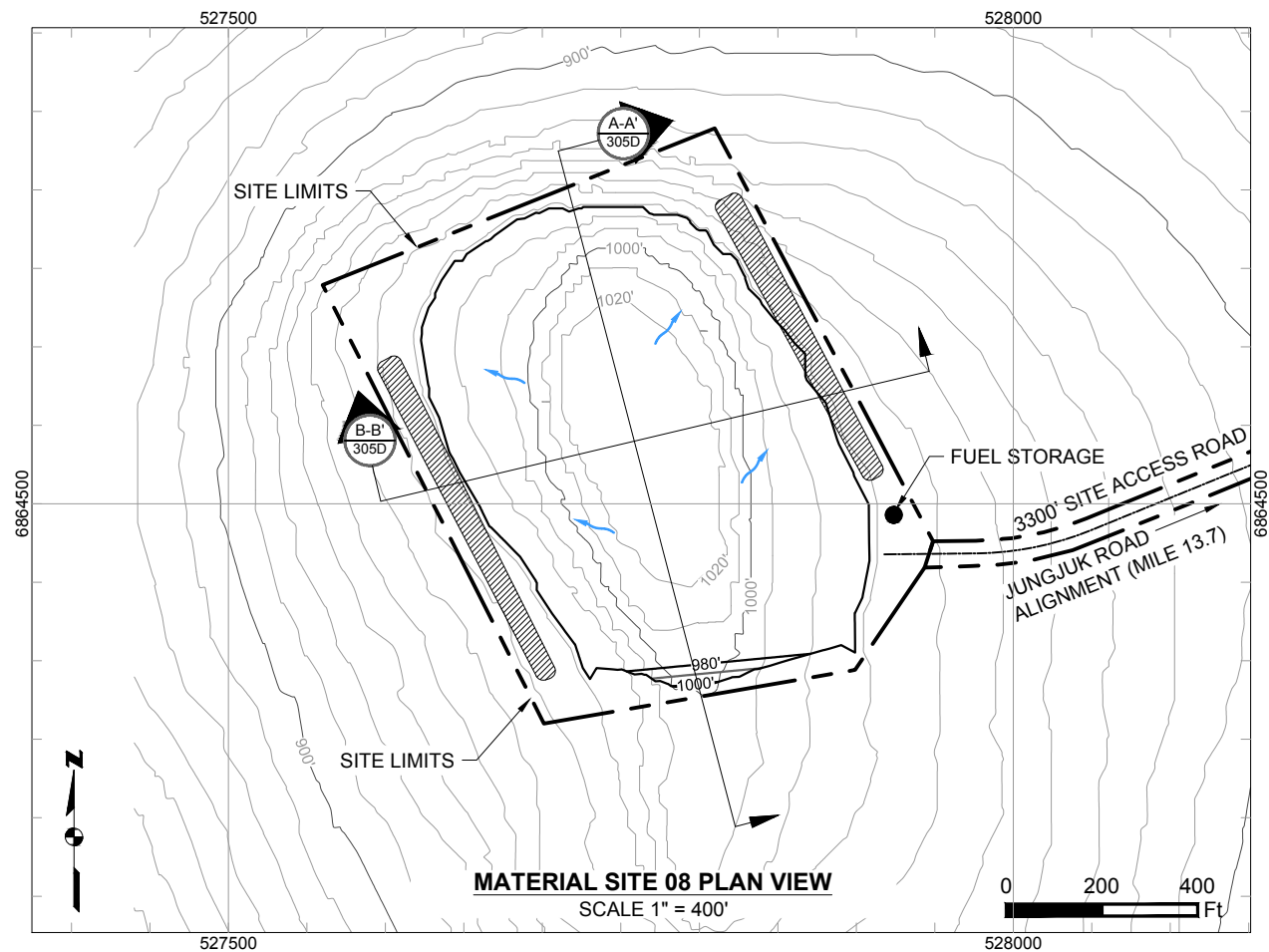
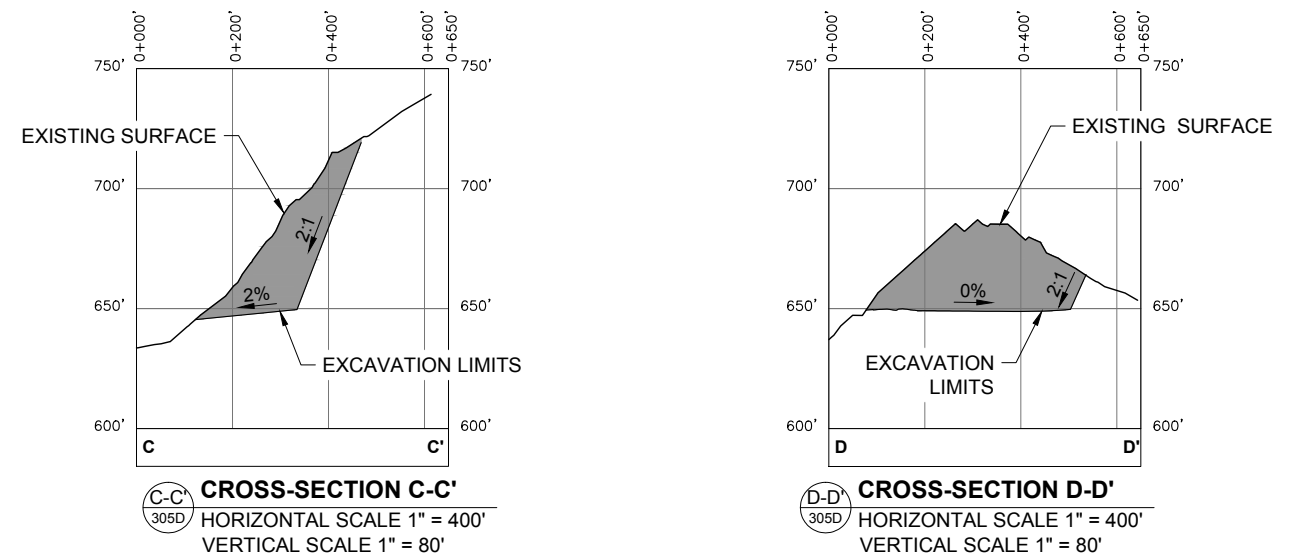
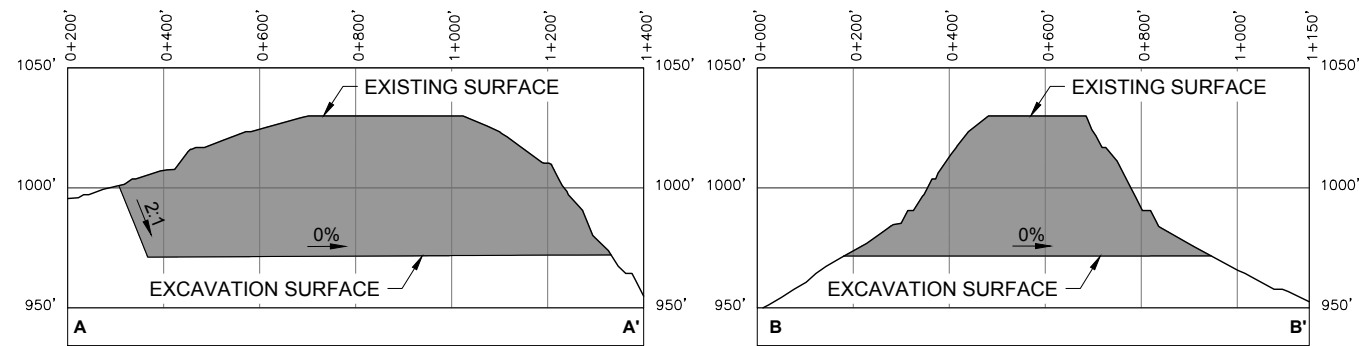
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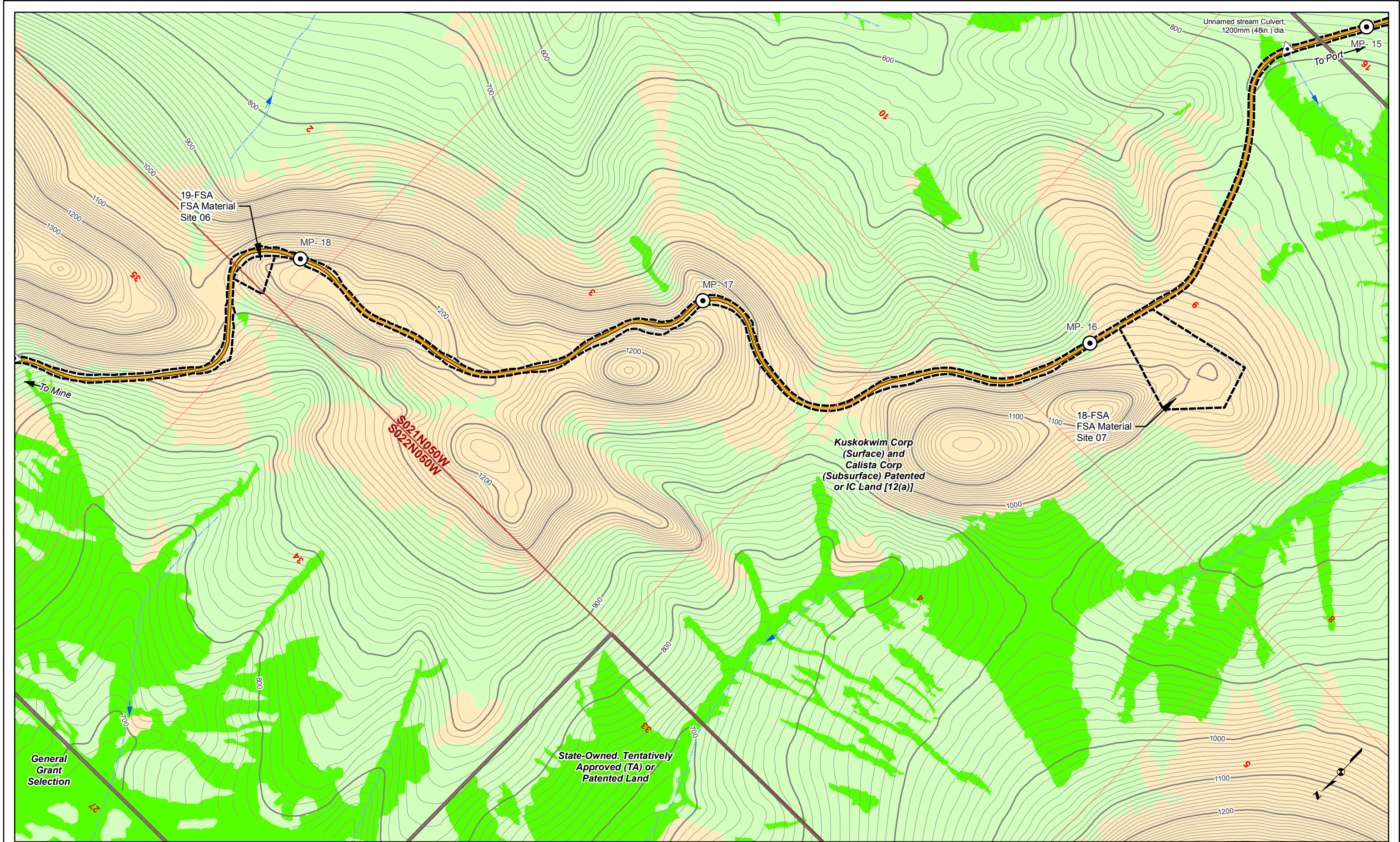
Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)		4720 Business Park Blvd., Suite G-25		FILE NO.	
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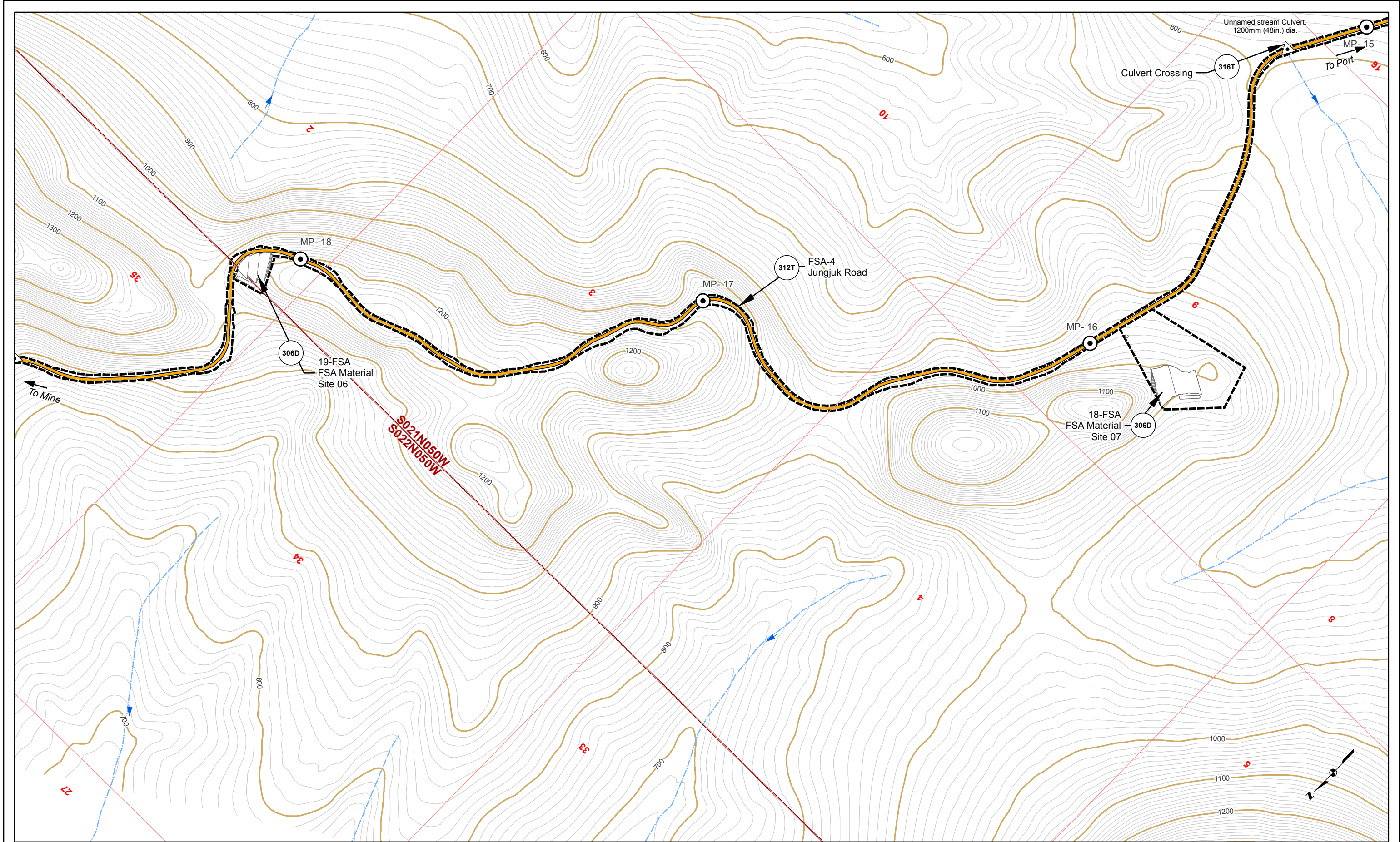
Baseemap Source: Sources: Esri, USGS, NOAA



Existing 10' Contours Existing 50' Contours Proposed 10' Contours Proposed 20' Contours		Cut Area Proposed Drainage Direction Overburden And Growth Media Stockpile Temporary Fuel Storage		Associated Engineering Drawings Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N		DRAWING TITLE: MATERIAL SITES 08 & 09 LAYOUTS AND SECTIONS	
SCALE: AS SHOWN		DATE: 8/11/2015		FIGURE NO.: TA-305D		FILE NO.: POA-1995-120			

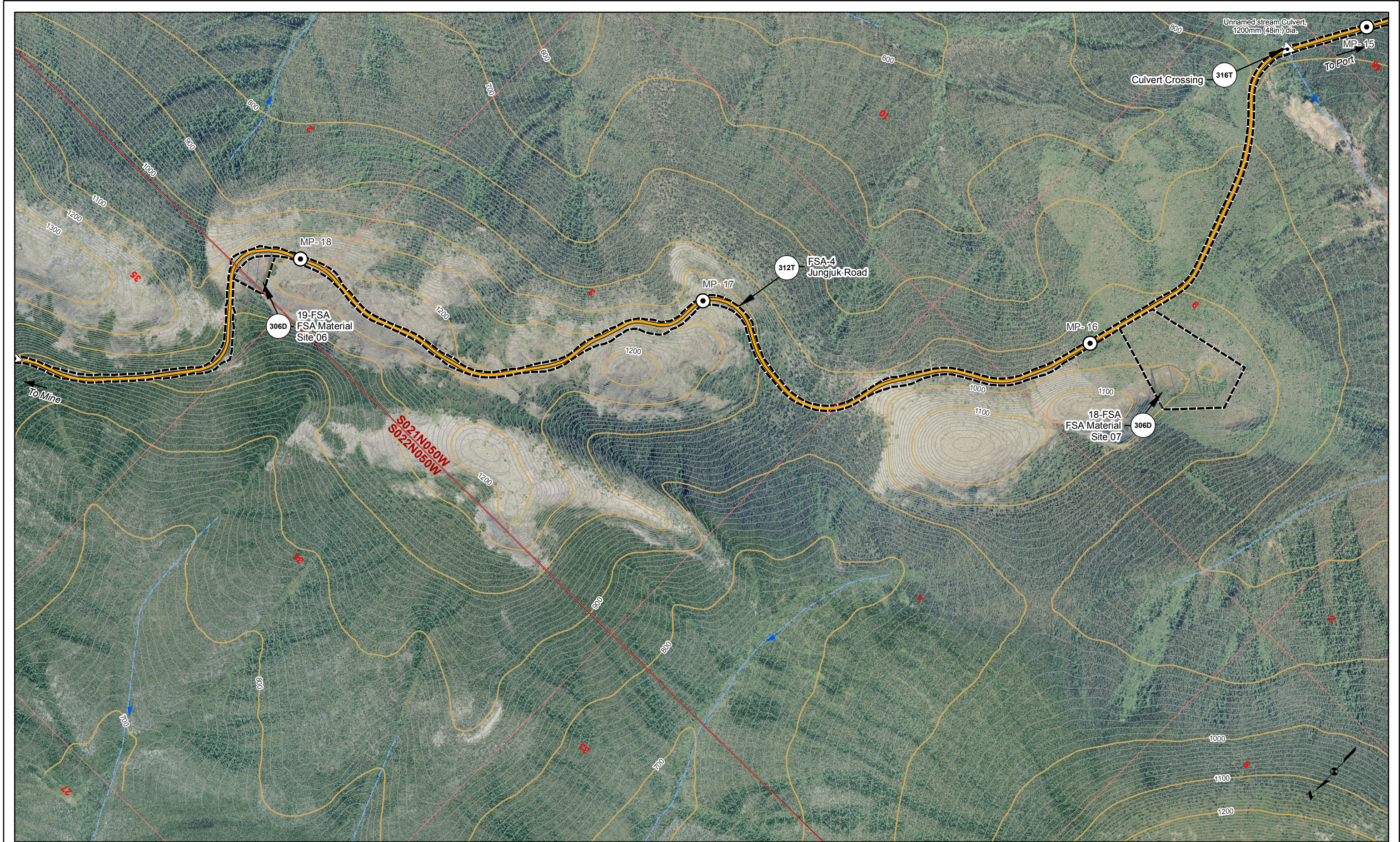


Land Status Road Milepost Mosaic Upland Waters Wetlands Bridge Project Disturbance Limit Powerline Culvert 10' Contour 100' Contour Stream Flow Direction Proposed Jungjuk Road Unnamed River/Stream Named River/Stream Associated Engineering Drawings ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon) 05001000 Feet DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,000 feet DATE: 8/12/2015 DRAWING TITLE: PLAN VIEW ACCESS ROAD WETLANDS MAP FIGURE NO. TA-306A FILE NO. POA-1995-120



Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
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		Anchorage, Alaska 99503		FILE NO.	
		NAD 1983 UTM Zone 4N		POA-1995-120	
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Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings

ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);

Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)

0 500 1,000 Feet

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

NAD 1983 UTM Zone 4N

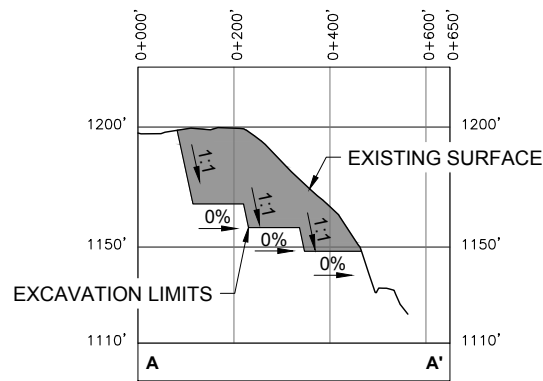
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DATE: 10/27/2015

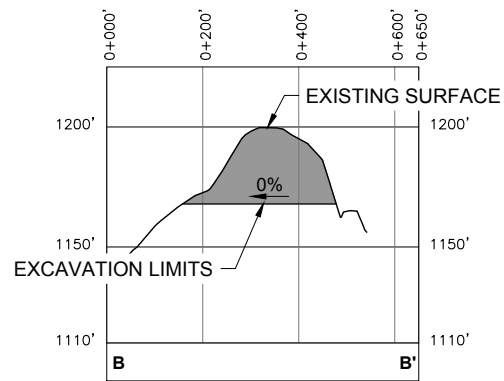
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ACCESS ROAD
ENGINEERING MAP**

FIGURE NO. **TA-306C**

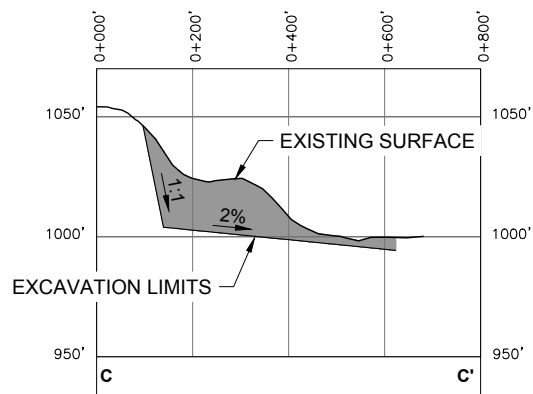
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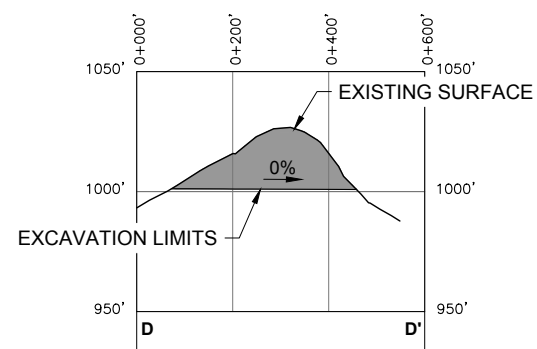
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HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'



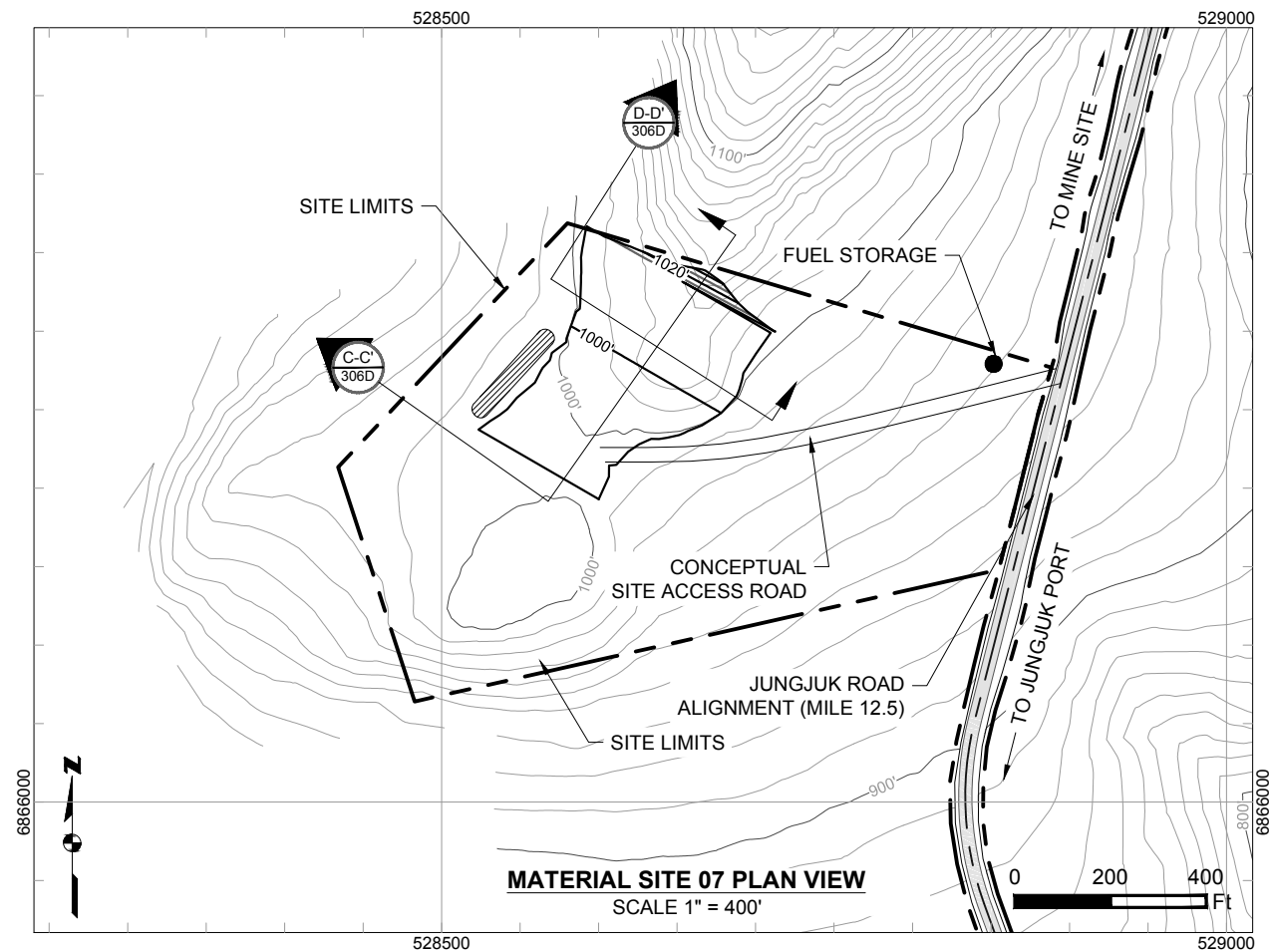
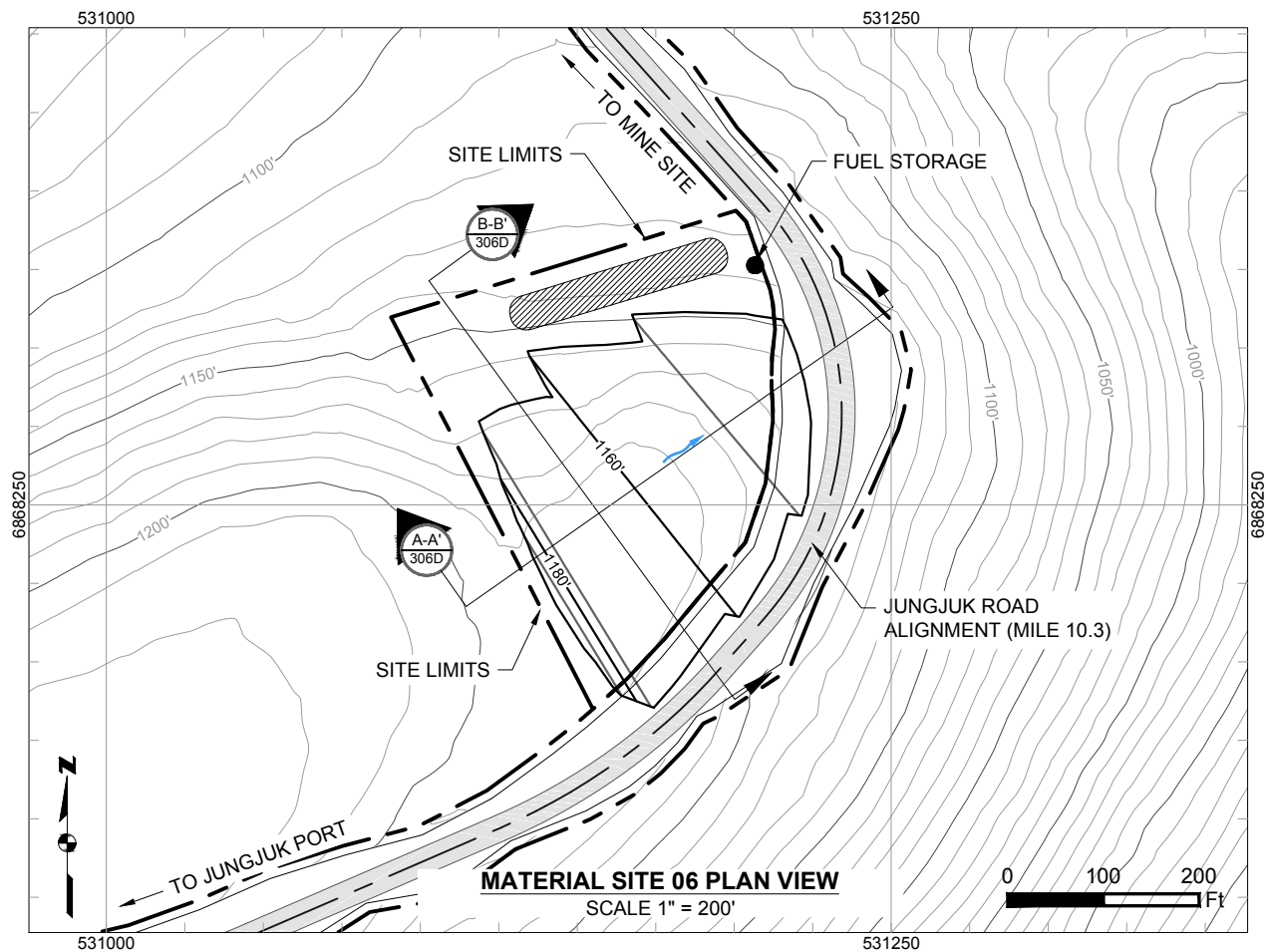
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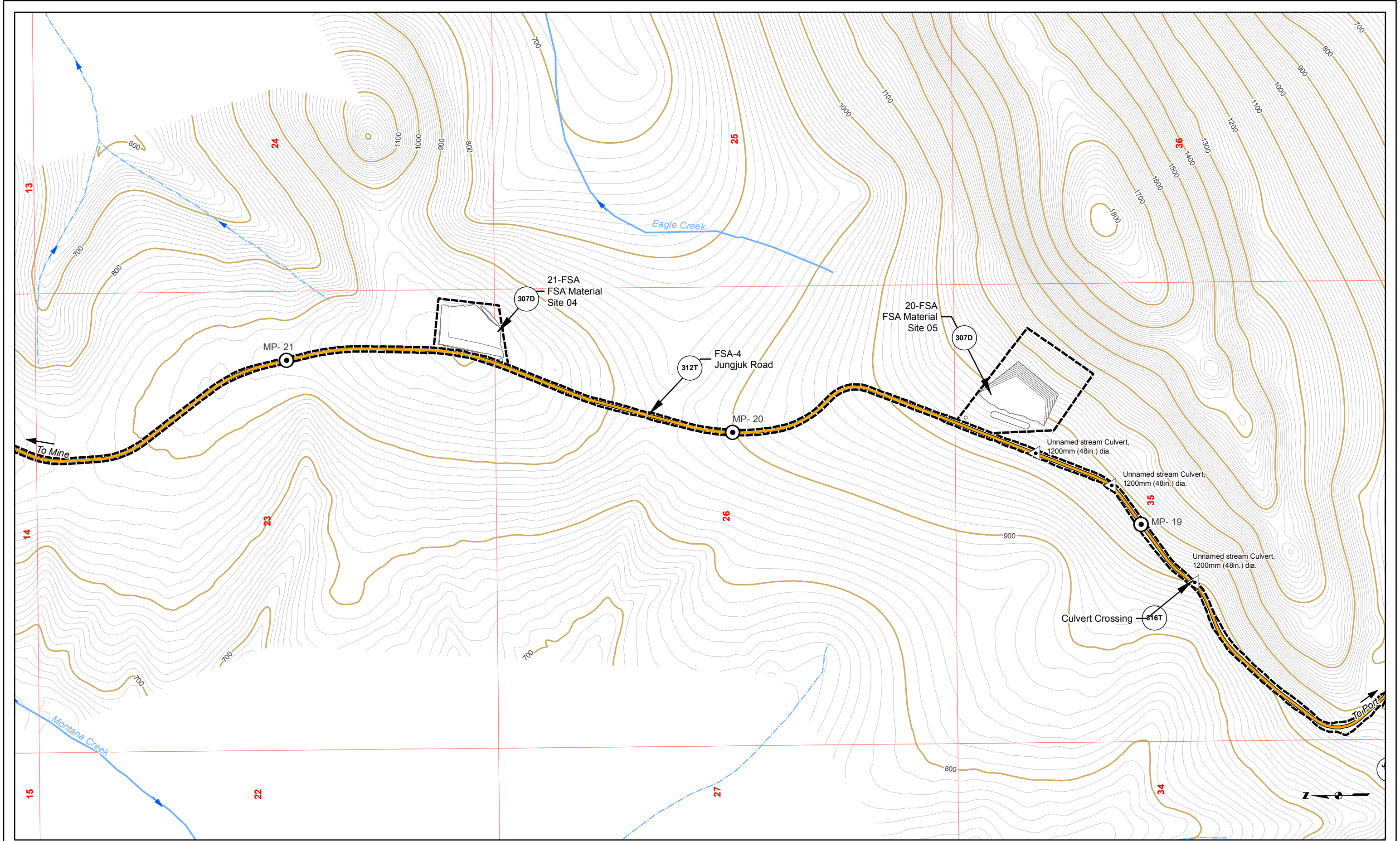
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CROSS-SECTION D-D'
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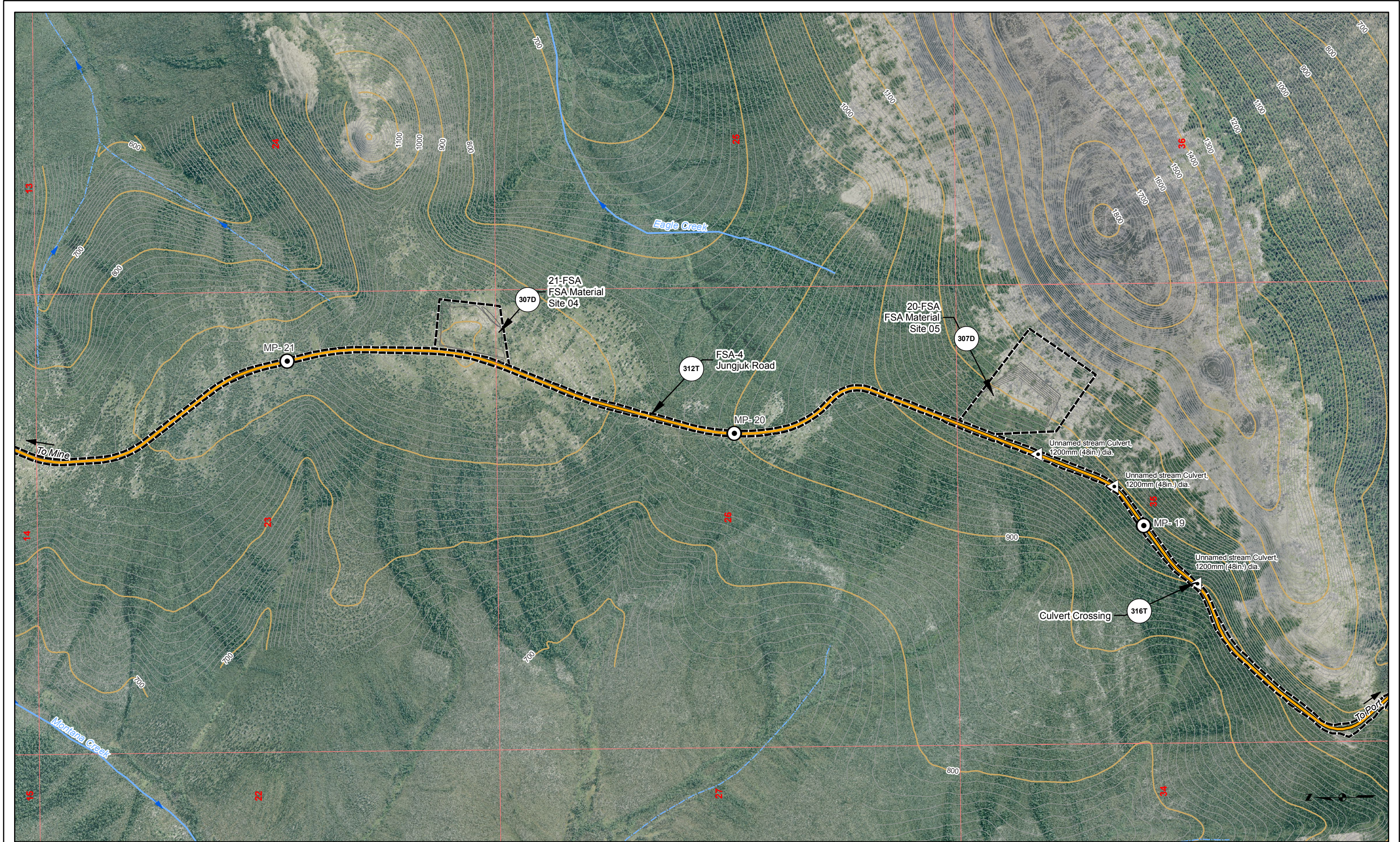
Existing 10' Contours Existing 50' Contours Proposed 10' Contours Proposed 20' Contours Cut Area Proposed Drainage Direction Overburden And Growth Media Stockpile Temporary Fuel Storage <tr><td> Associated Engineering Drawings Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015 DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: AS SHOWN DATE: 8/11/2015 <tr><td> DRAWING TITLE: MATERIAL SITES 06 & 07 LAYOUTS AND SECTIONS FIGURE NO. TA-306D FILE NO. POA-1995-120 </td></tr></td></tr>	Associated Engineering Drawings Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015 DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: AS SHOWN DATE: 8/11/2015 <tr><td> DRAWING TITLE: MATERIAL SITES 06 & 07 LAYOUTS AND SECTIONS FIGURE NO. TA-306D FILE NO. POA-1995-120 </td></tr>	DRAWING TITLE: MATERIAL SITES 06 & 07 LAYOUTS AND SECTIONS FIGURE NO. TA-306D FILE NO. POA-1995-120
Associated Engineering Drawings Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015 DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: AS SHOWN DATE: 8/11/2015 <tr><td> DRAWING TITLE: MATERIAL SITES 06 & 07 LAYOUTS AND SECTIONS FIGURE NO. TA-306D FILE NO. POA-1995-120 </td></tr>	DRAWING TITLE: MATERIAL SITES 06 & 07 LAYOUTS AND SECTIONS FIGURE NO. TA-306D FILE NO. POA-1995-120	
DRAWING TITLE: MATERIAL SITES 06 & 07 LAYOUTS AND SECTIONS FIGURE NO. TA-306D FILE NO. POA-1995-120		



Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)		4720 Business Park Blvd., Suite G-25		FILE NO.	
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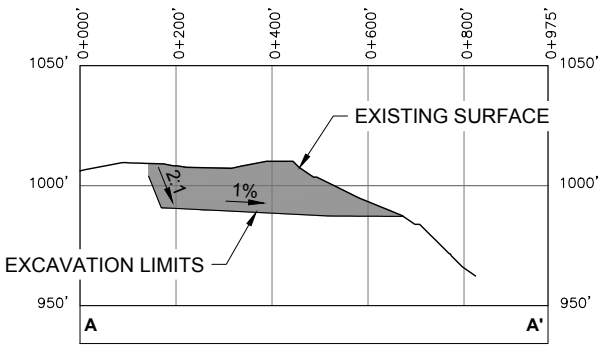
Base map Source: Sources: Esri, USGS, NOAA



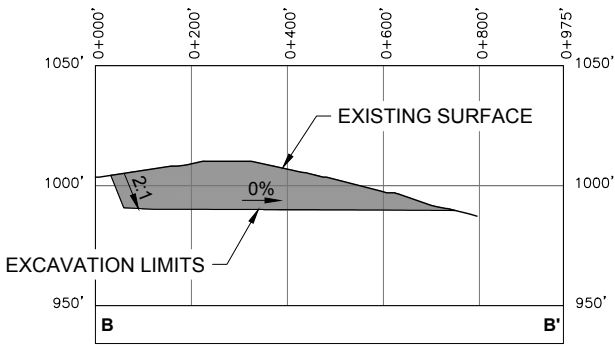
Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon); Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		FIGURE NO.	
0 500 1,000 Feet		NAD 1983 UTM Zone 4N		FILE NO.	
SCALE: 1 inch = 1,000 feet		DATE: 8/12/2015		TA-307C POA-1995-120	

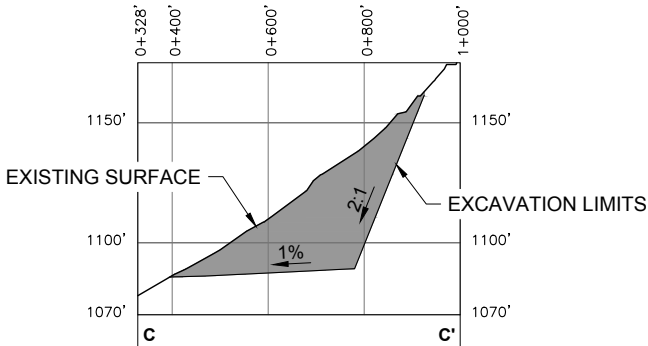
Baseemap Source: Sources: Esri, USGS, NOAA



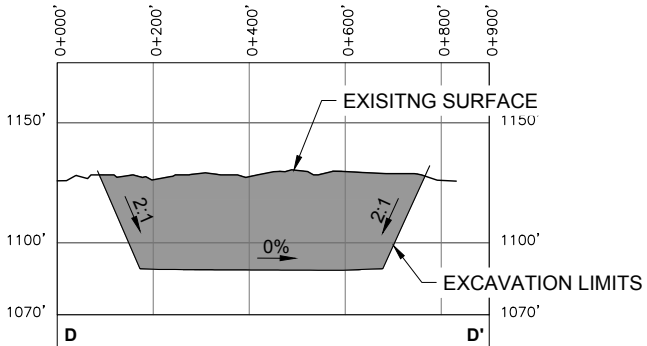
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HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'



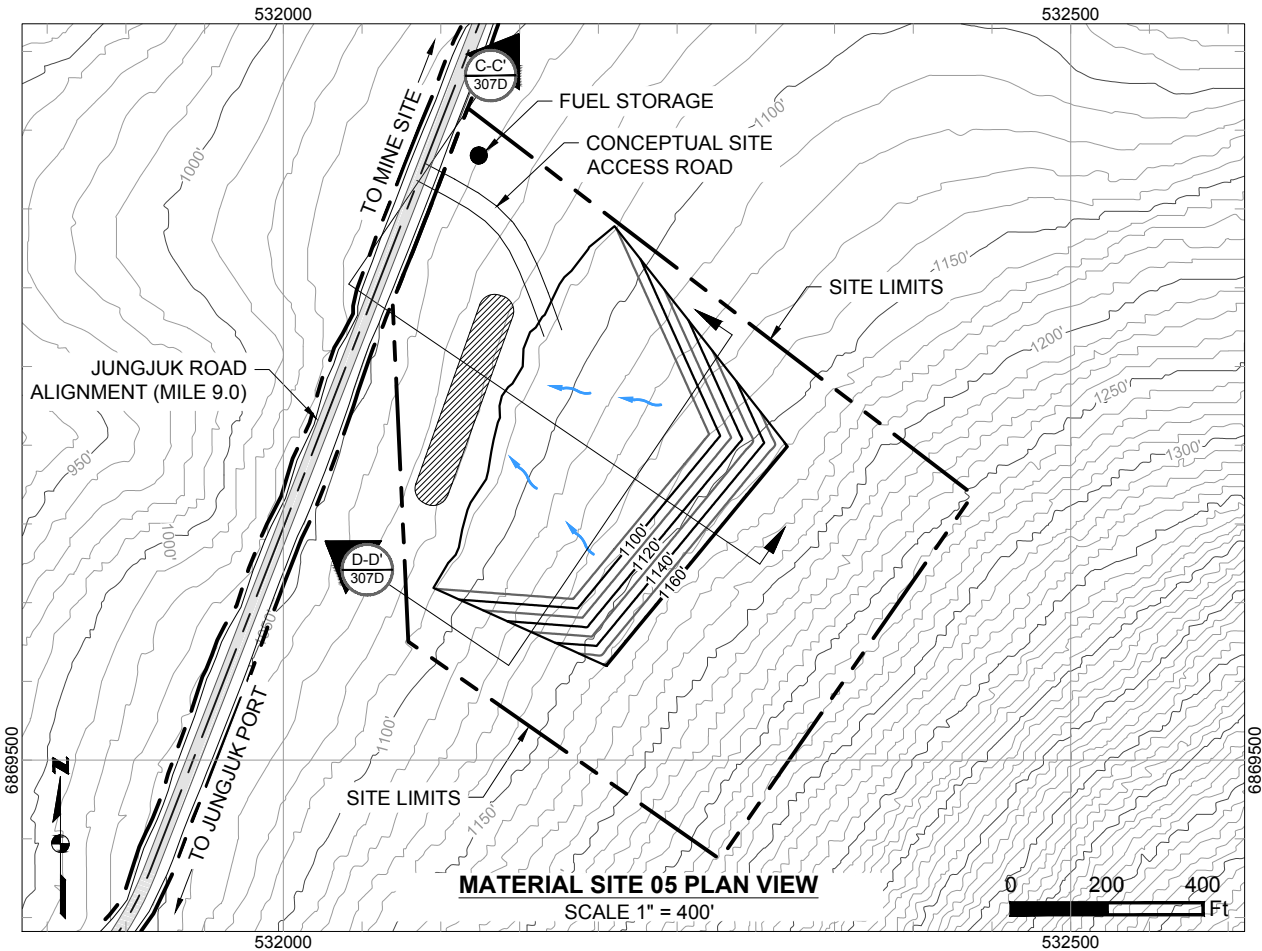
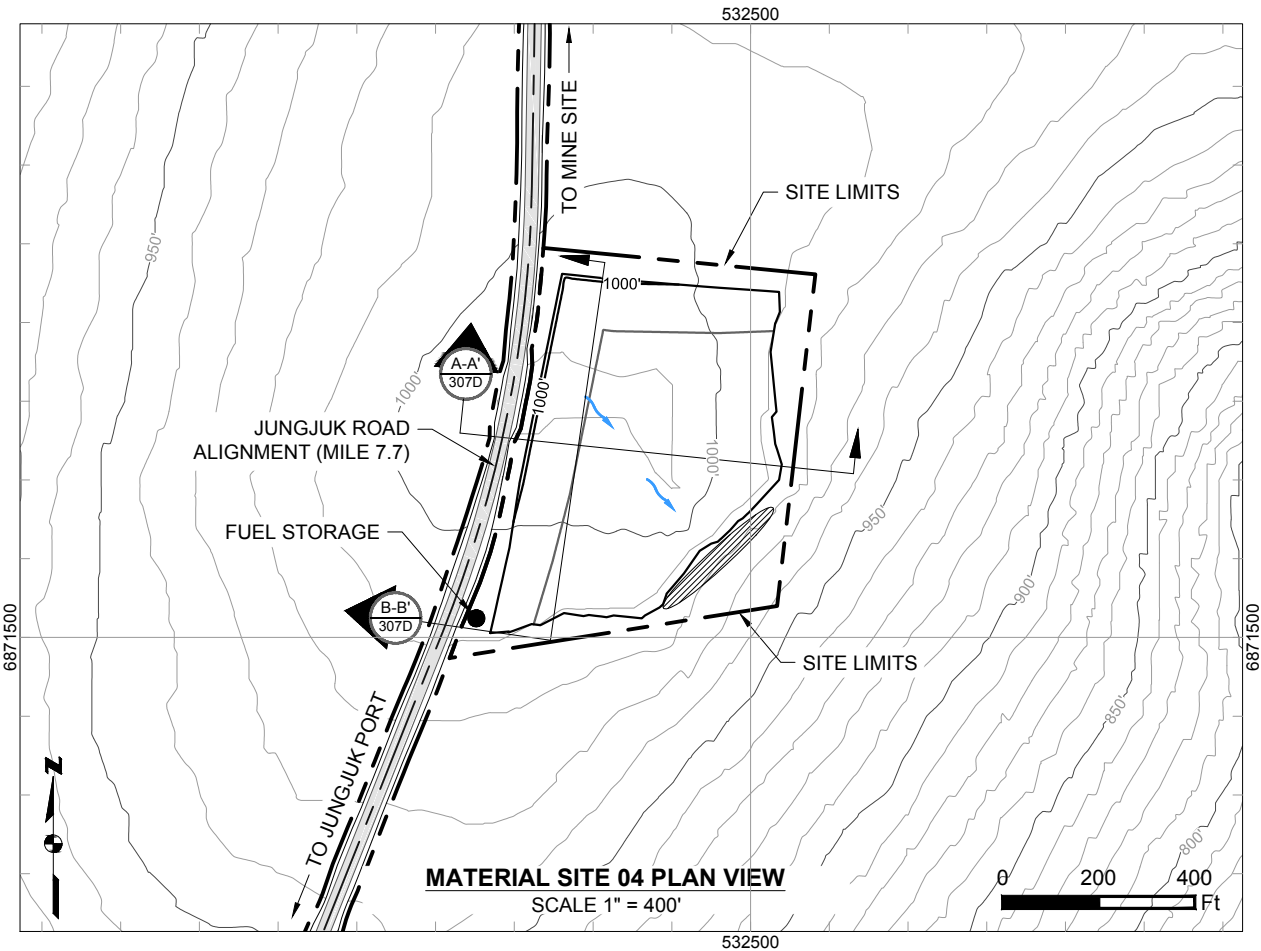
CROSS-SECTION B-B'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'



CROSS-SECTION C-C'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'



CROSS-SECTION D-D'
HORIZONTAL SCALE 1" = 400'
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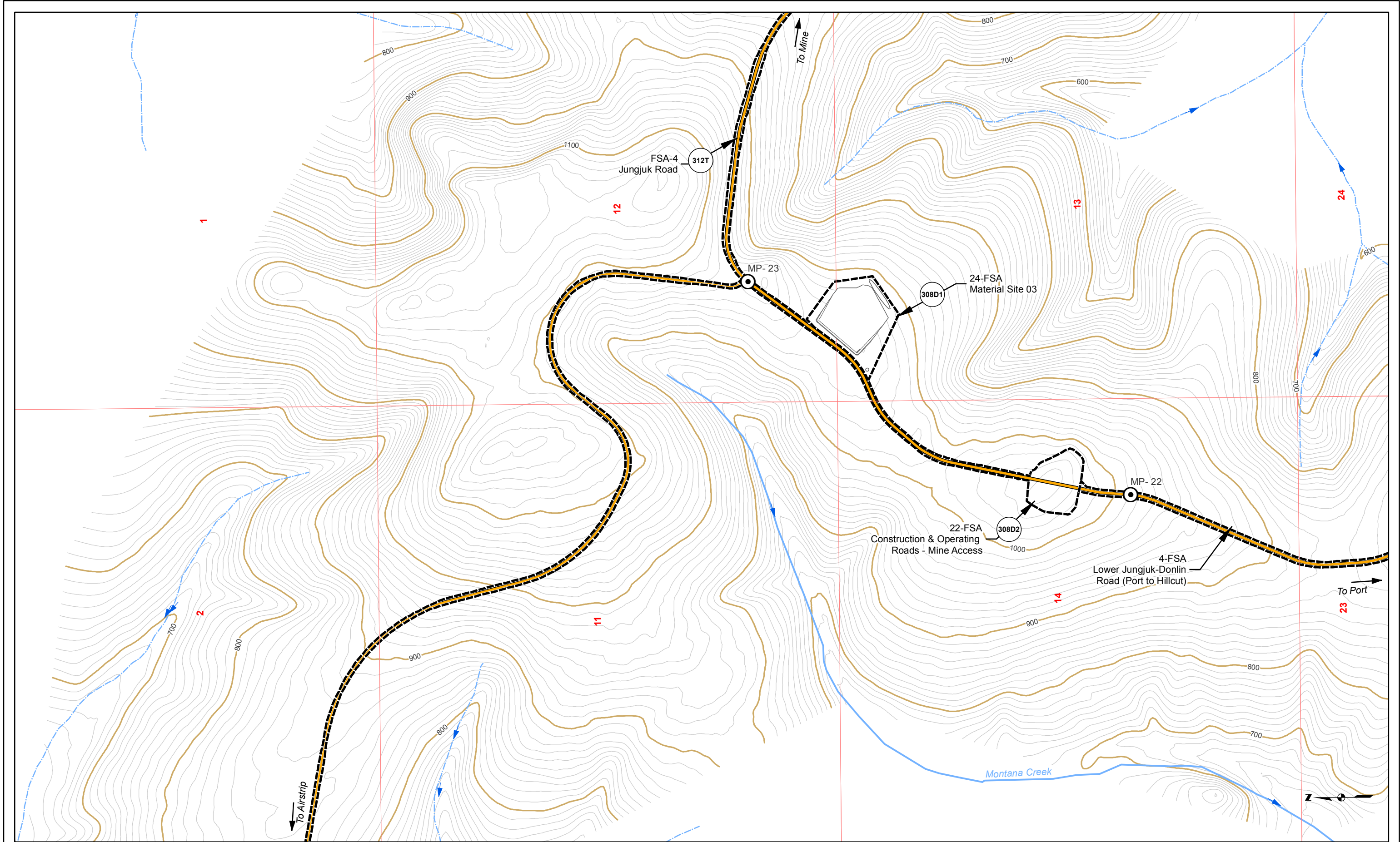


Existing 10' Contours	Cut Area
Existing 50' Contours	Proposed Drainage Direction
Proposed 10' Contours	Overburden And Growth Media Stockpile
Proposed 20' Contours	Temporary Fuel Storage

Associated Engineering Drawings
Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015

DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN
DATE: 8/11/2015

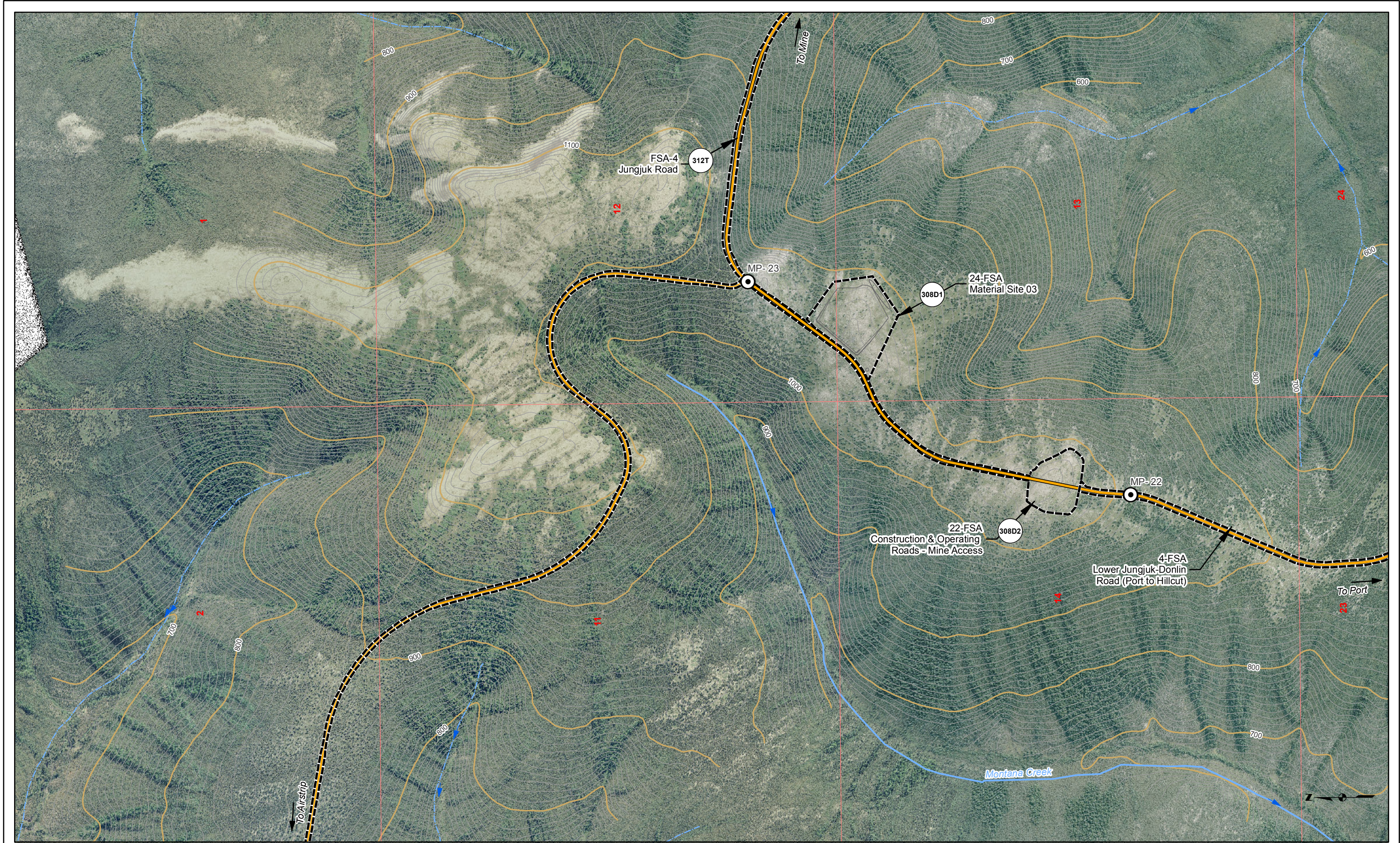
DRAWING TITLE:	MATERIAL SITES 04 & 05
FIGURE NO.	LAYOUTS AND SECTIONS
FILE NO.	TA-307D
	POA-1995-120



Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)A1-166549-80-13-006.dwg (AMEC)		4720 Business Park Blvd., Suite G-25		FILE NO.	
		Anchorage, Alaska 99503		TA-308B	
		NAD 1983 UTM Zone 4N		POA-1995-120	
0 500 1,000 Feet		SCALE: 1 inch = 1,000 feet		DATE: 10/27/2015	

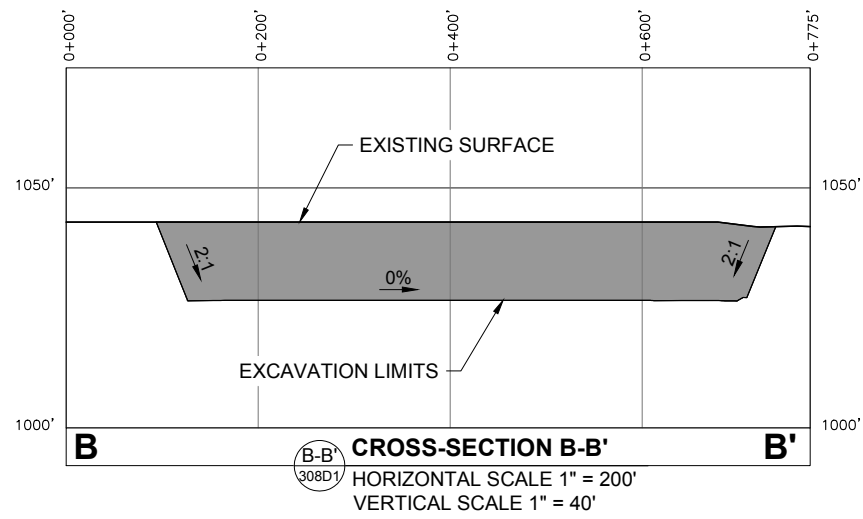
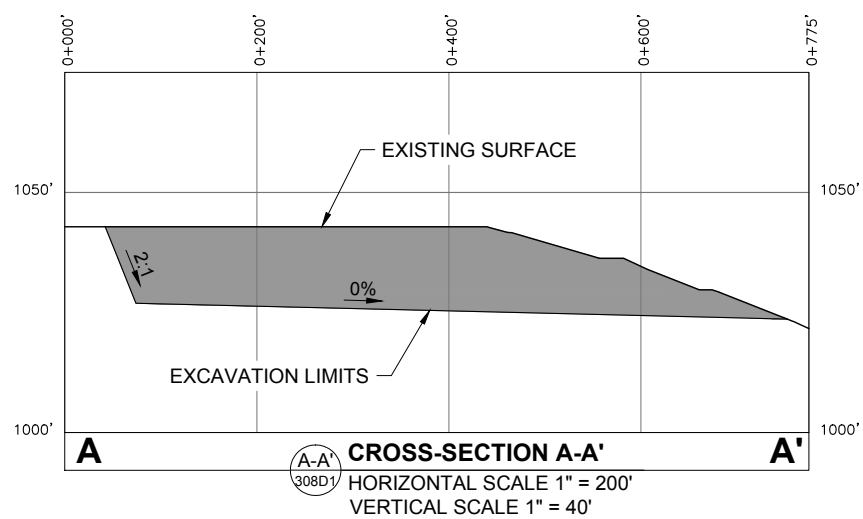
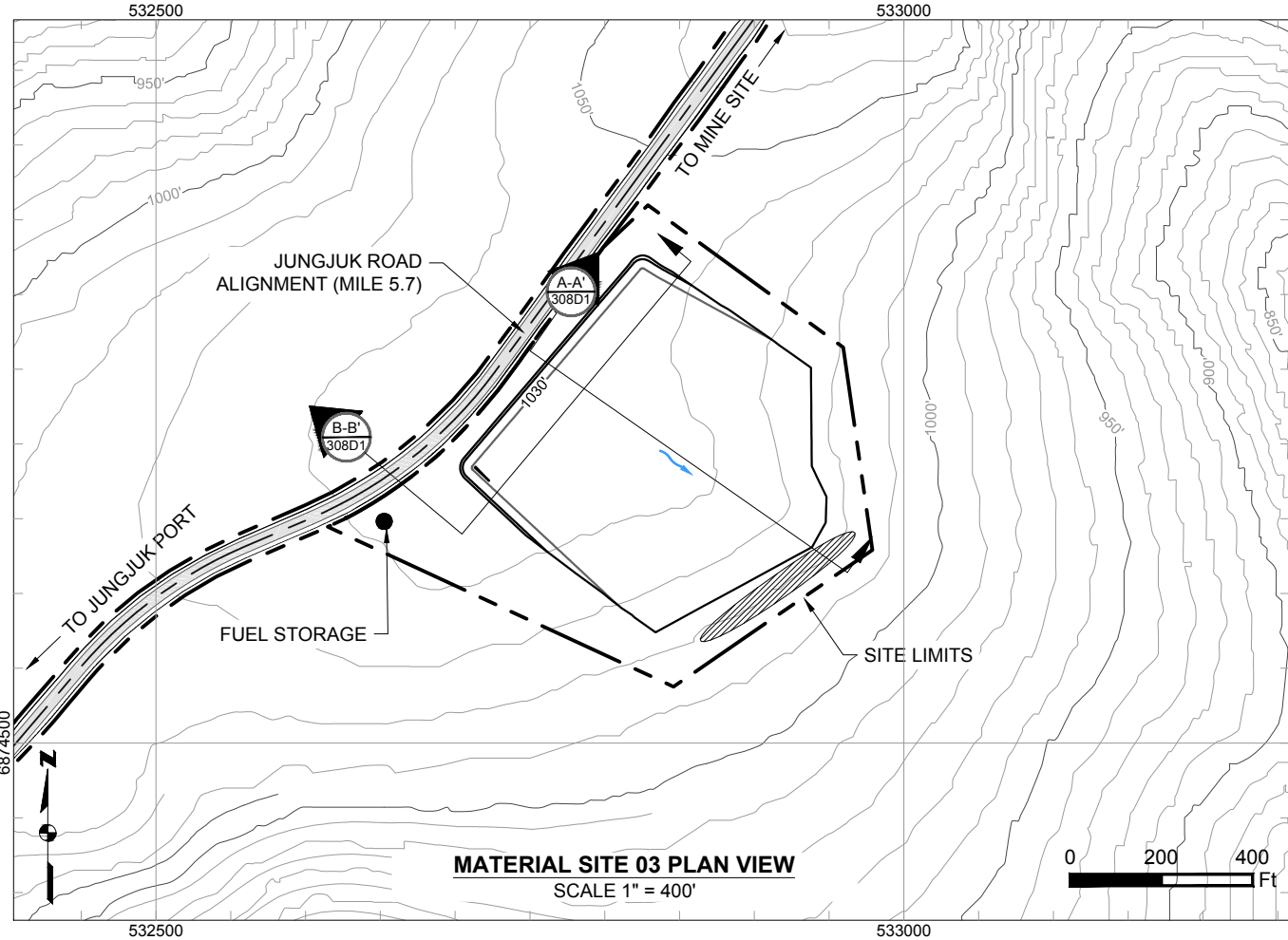
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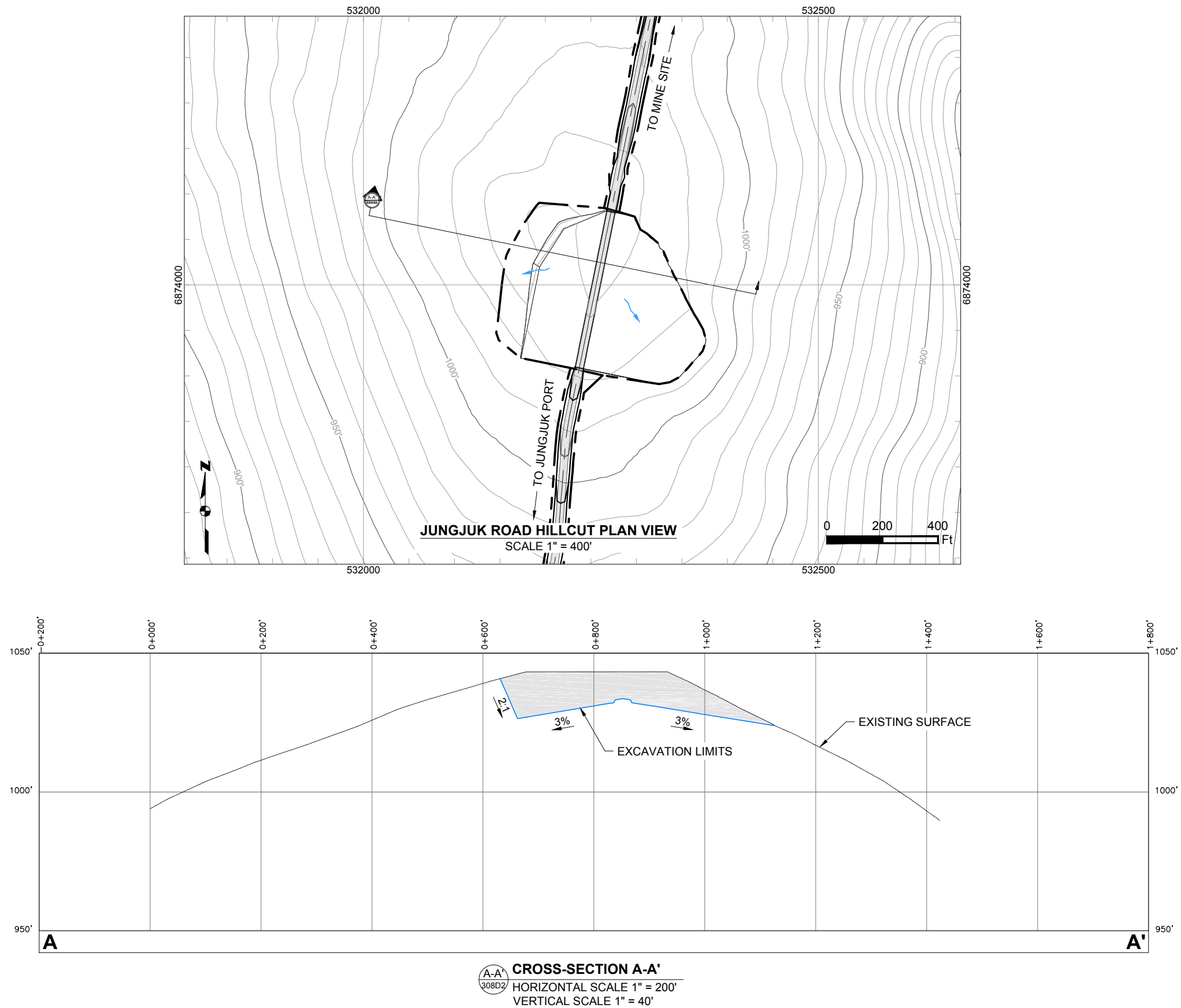
Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)/A1-166549-80-13-006.dwg (AMEC)		4720 Business Park Blvd., Suite G-25		FILE NO.	
		Anchorage, Alaska 99503		TA-308C	
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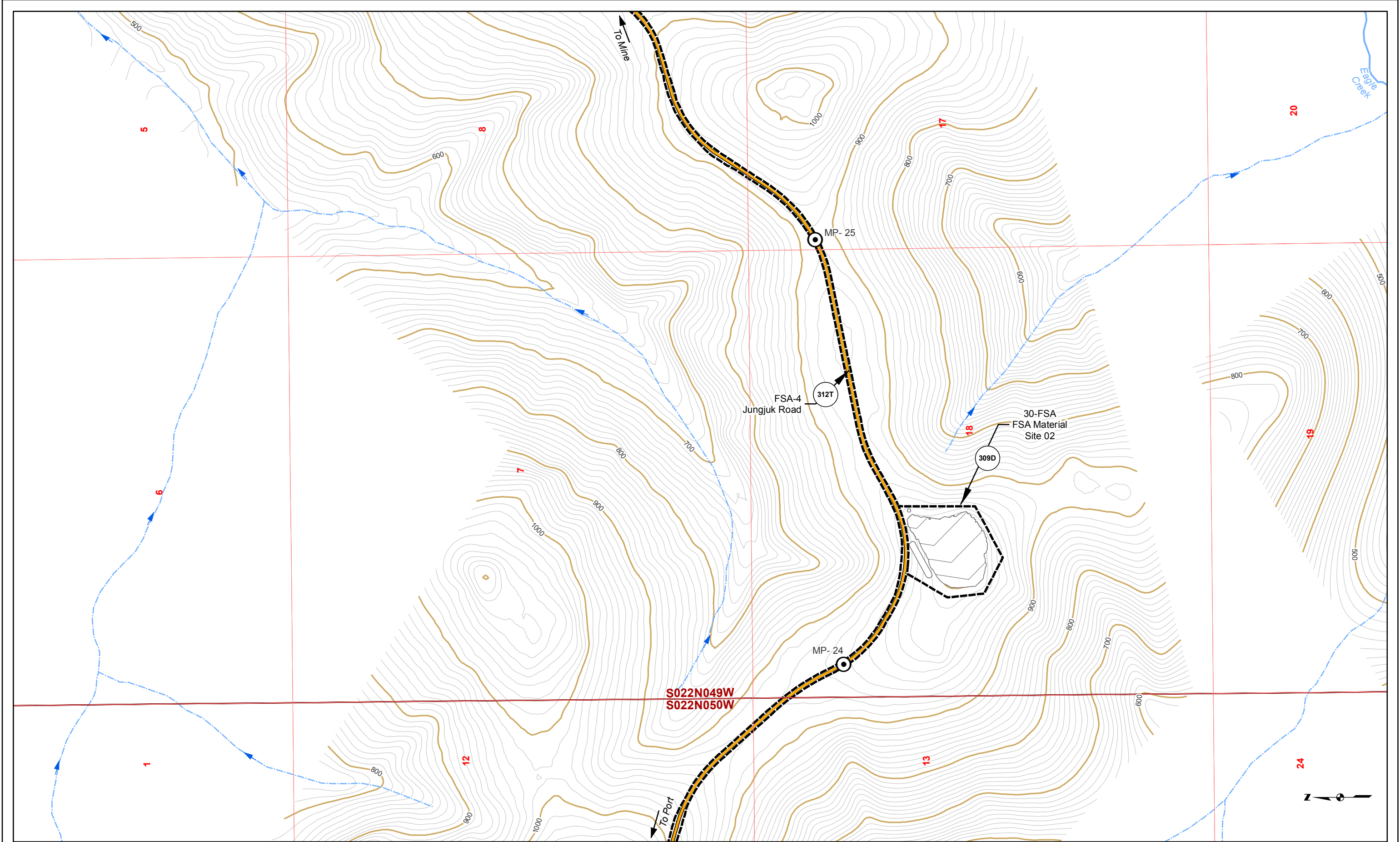
Baseemap Source: Sources: Esri, USGS, NOAA



Existing 10' Contours Existing 50' Contours Proposed 10' Contours Proposed 20' Contours Cut Area Proposed Drainage Direction Overburden And Growth Media Stockpile Temporary Fuel Storage	Associated Engineering Drawings Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: AS SHOWN DATE: 8/11/2015	DRAWING TITLE: MATERIAL SITE 03 LAYOUT AND SECTIONS FIGURE NO. TA-308D1 FILE NO. POA-1995-120
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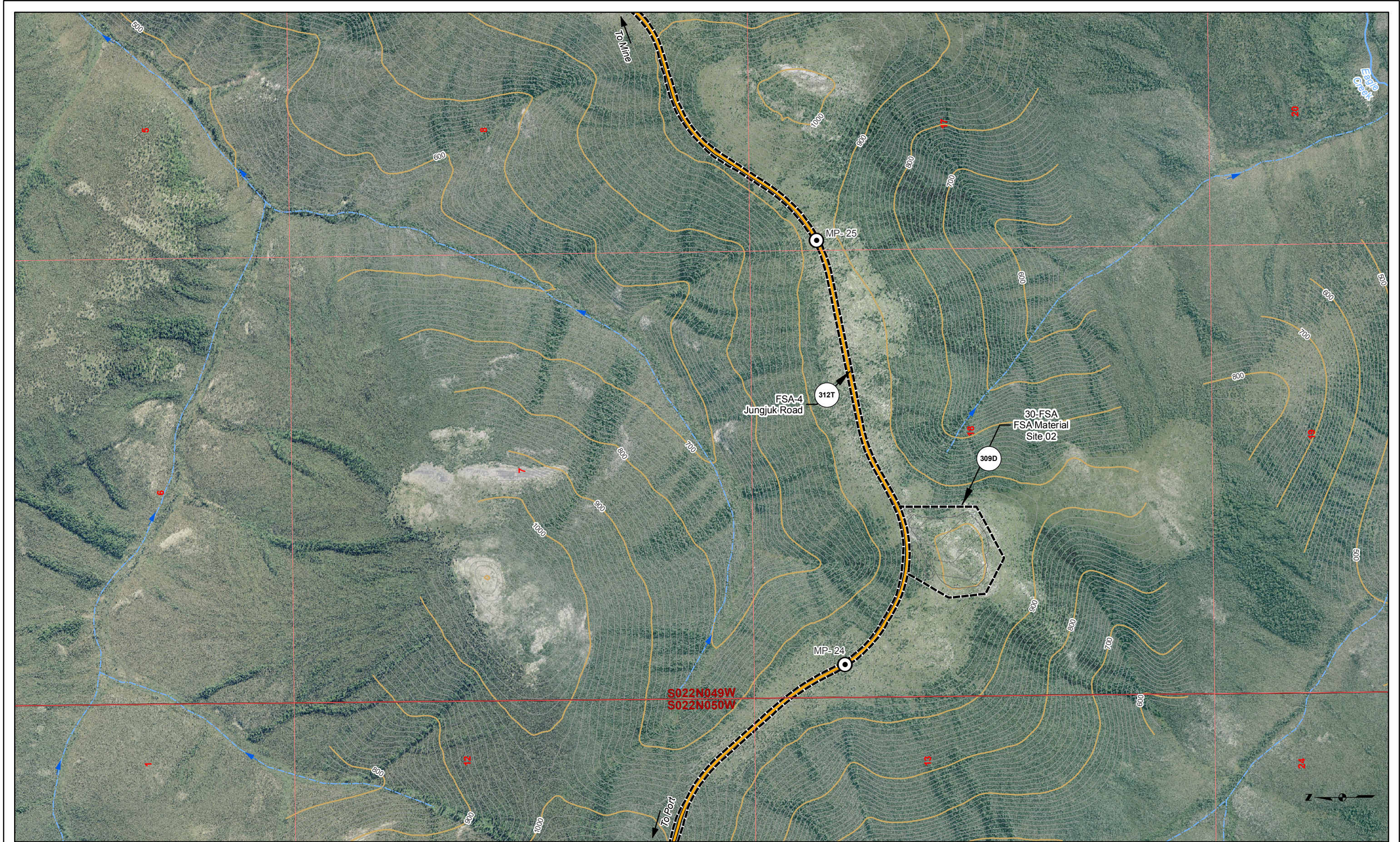


Existing 10' Contours Existing 50' Contours Proposed 10' Contours Proposed 20' Contours Cut Area Proposed Drainage Direction	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: JUNGJUK ROAD HILLCUT	
			NAD 1983 UTM Zone 4N		FIGURE NO. TA-308D2	
			SCALE: AS SHOWN		FILE NO. POA-1995-120	
			DATE: 8/18/2015			



 Road Milepost	 Bridge	 10' Contour	 Cross Section	 Unnamed River/Stream
 Proposed Jungjuk Road	 Project Disturbance Limit	 100' Contour	 Powerline	 Named River/Stream
 Culvert	 Stream Flow Direction	 Figure Detail Reference		

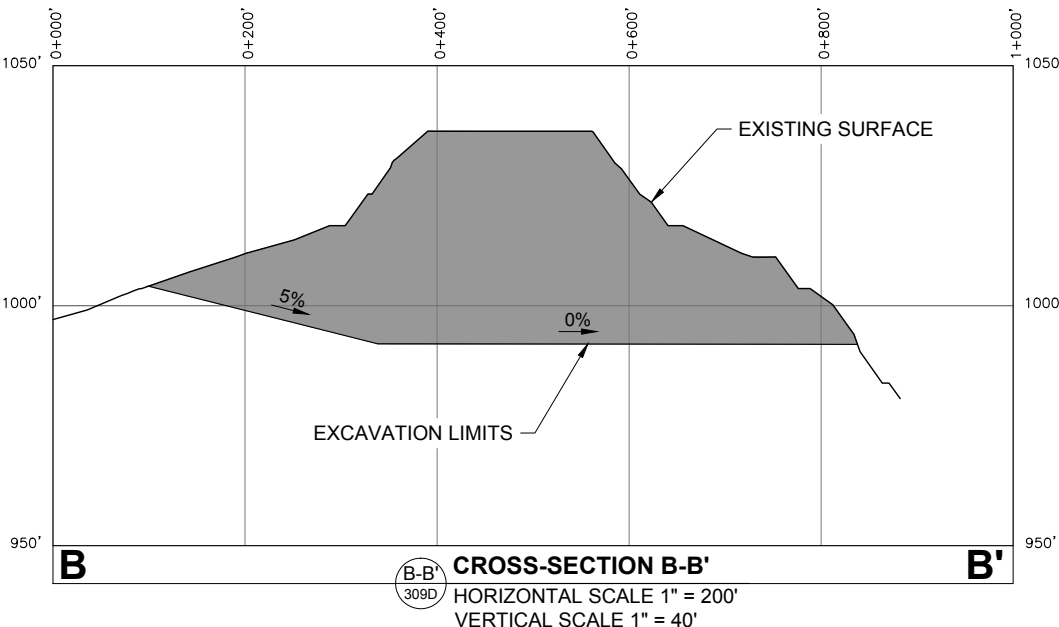
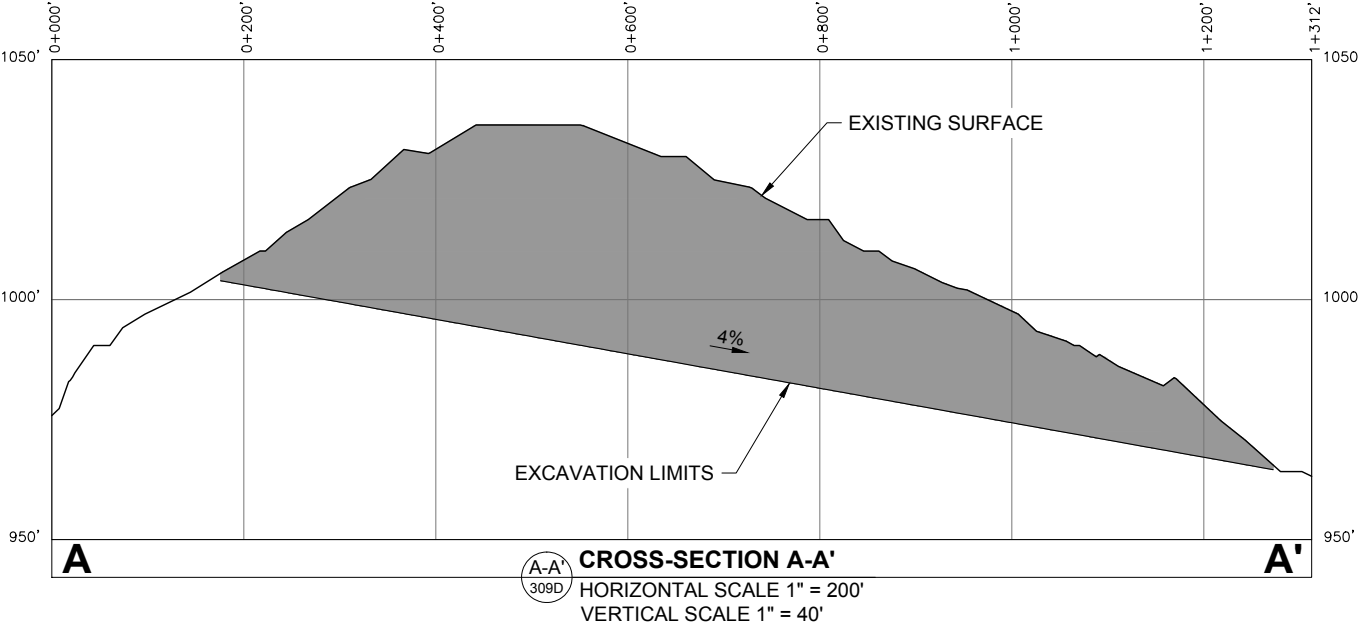
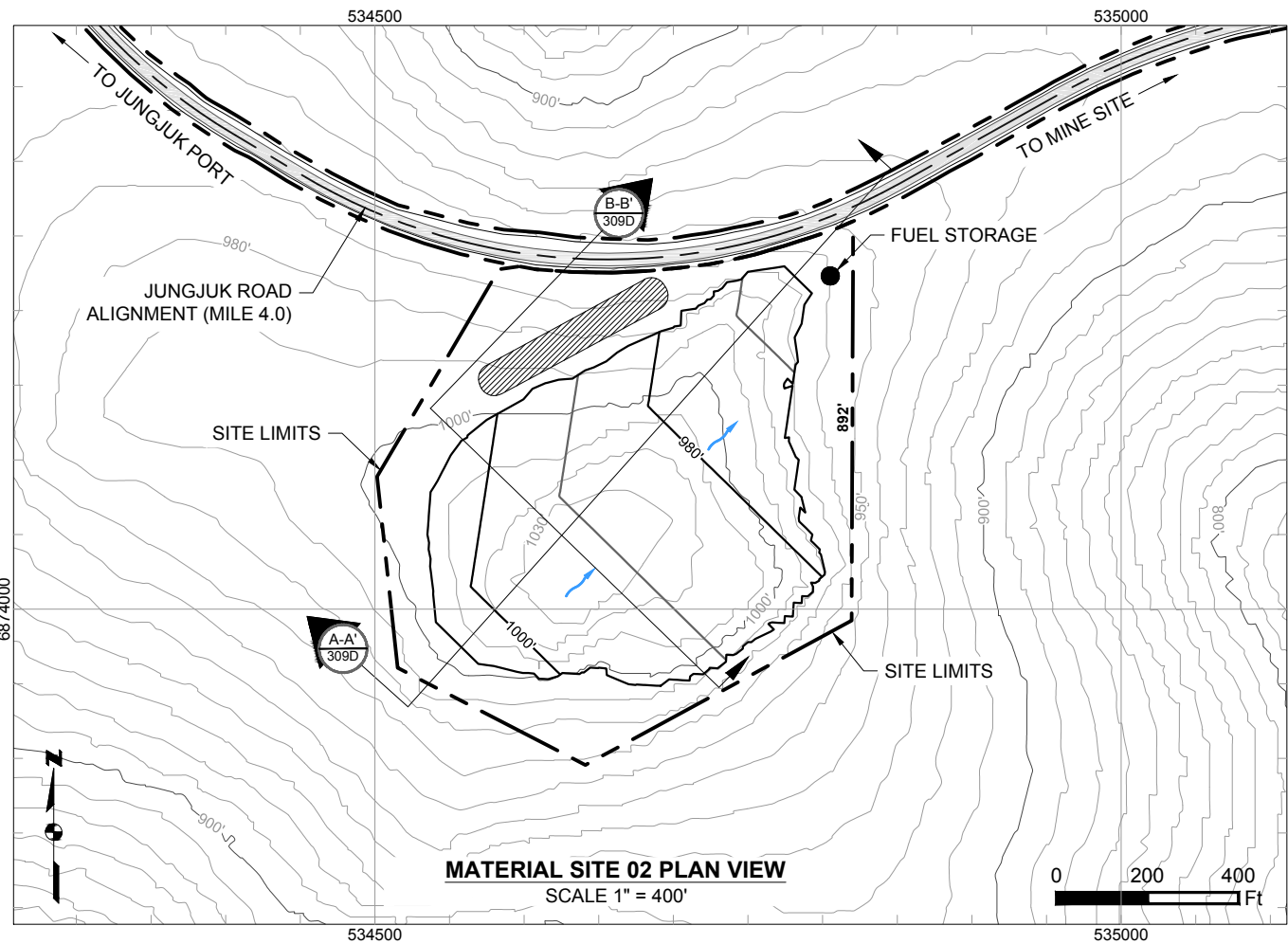
Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)		4720 Business Park Blvd., Suite G-25		FILE NO.	
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		SCALE: 1 inch = 1,000 feet		DATE: 8/12/2015	
				POA-1995-120	



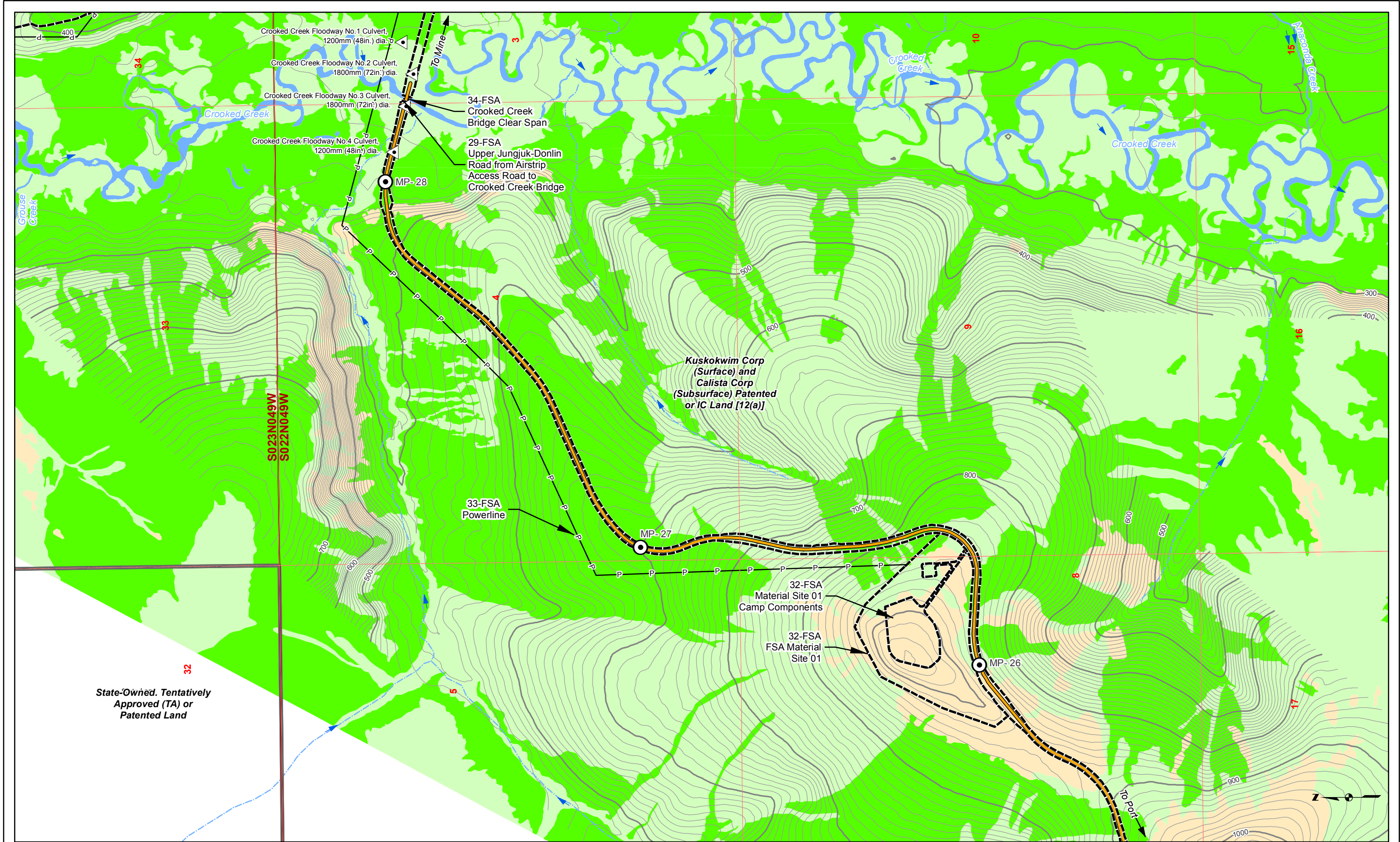
Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)		4720 Business Park Blvd., Suite G-25		FILE NO.	
		Anchorage, Alaska 99503		TA-309C	
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		SCALE: 1 inch = 1,000 feet		DATE: 8/12/2015	

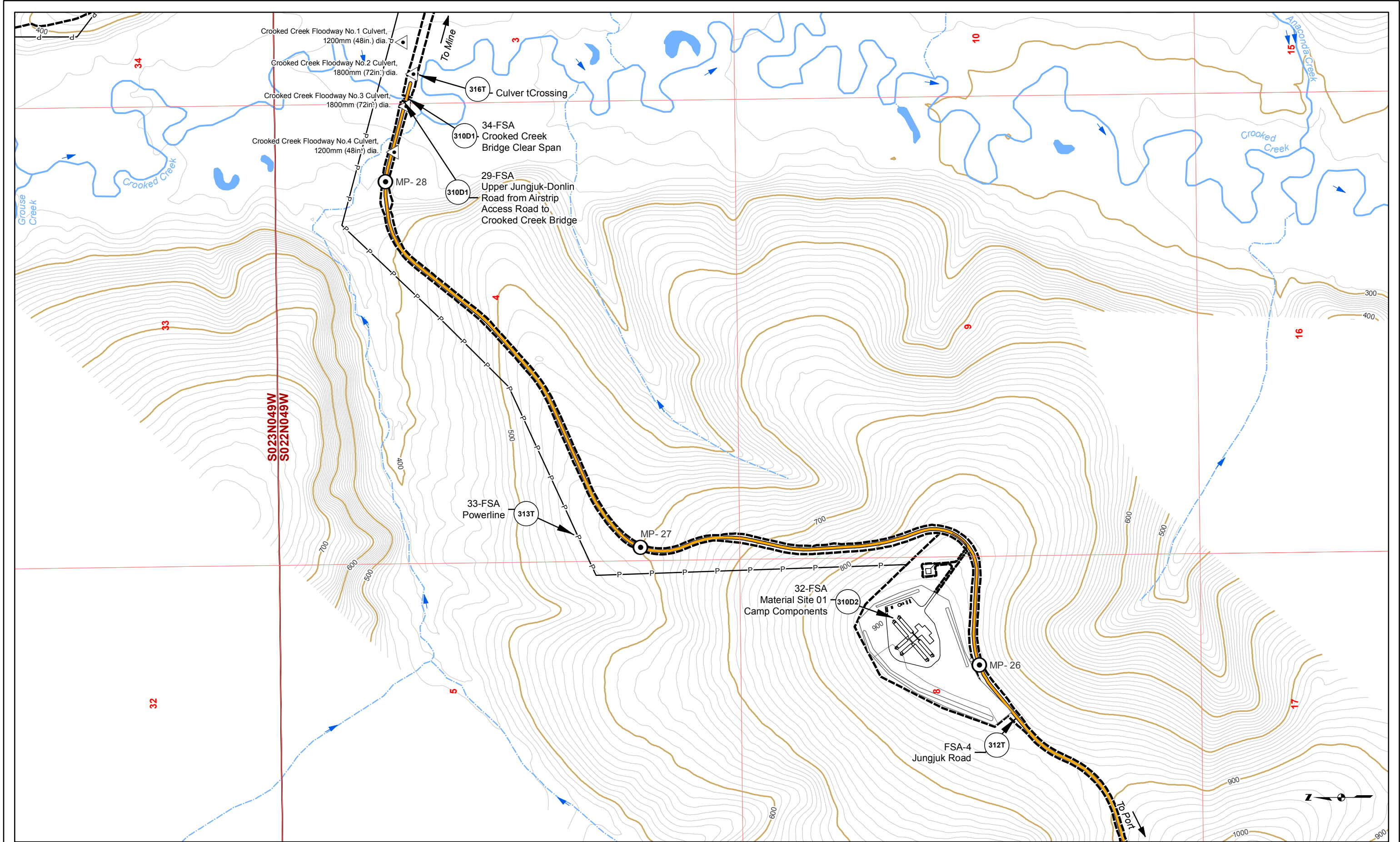
Base map Source: Sources: Esri, USGS, NOAA



Existing 10' Contours Existing 50' Contours Proposed 10' Contours Proposed 20' Contours		Cut Area Proposed Drainage Direction Overburden And Growth Media Stockpile Temporary Fuel Storage	Associated Engineering Drawings Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: AS SHOWN DATE: 8/11/2015	DRAWING TITLE: MATERIAL SITE 02 LAYOUT AND SECTIONS FIGURE NO. TA-309D FILE NO. POA-1995-120
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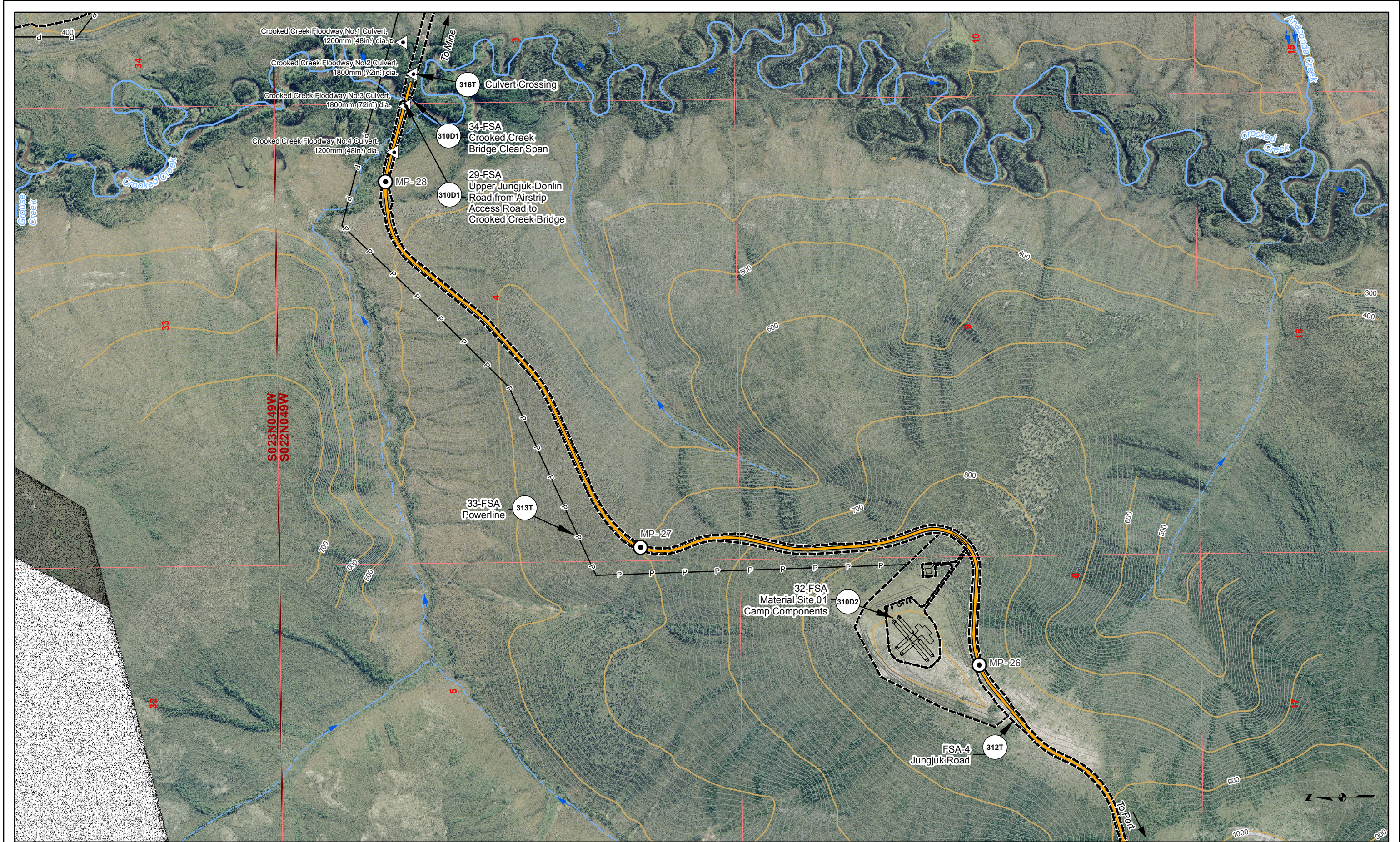
Land Status Road Milepost 10' Contour 100' Contour Powerline Culvert Mosaic Upland Wetlands Waters Bridge Project Disturbance Limit Stream Flow Direction Named River/Stream Proposed Jungjuk Road Unnamed River/Stream Associated Engineering Drawings ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon) 0 500 1,000 Feet DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,000 feet DATE: 10/5/2015 DRAWING TITLE: PLAN VIEW ACCESS ROAD WETLANDS MAP FIGURE NO. TA-310A FILE NO. POA-1995-120 PATH: D:\Dropbox\Donlin\181202_010_Mapping_404_Support\Revision_A\TA_3XXA_Road_MB_ABR_20151005.mxd Basemap Source: Sources: Esri, USGS, NOAA
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Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert	Stream Flow Direction	Figure Detail Reference		

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW ACCESS ROAD ENGINEERING MAP	
ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);		APPLICANT: Donlin Gold, LLC		FIGURE NO.	
Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)		4720 Business Park Blvd., Suite G-25		FILE NO.	
		Anchorage, Alaska 99503		TA-310B	
		NAD 1983 UTM Zone 4N		POA-1995-120	
0 500 1,000 Feet		SCALE: 1 inch = 1,000 feet		DATE: 10/5/2015	

Base map Source: Sources: Esri, USGS, NOAA



Road Milepost

Proposed Jungjuk Road

Bridge

Project Disturbance Limit

Culvert

10' Contour

100' Contour

Stream Flow Direction

Cross Section

Powerline

Figure Detail Reference

Unnamed River/Stream

Named River/Stream

Associated Engineering Drawings

ACAD-Donlin Jungjuk Alignment and toes.dxf (Recon);

Donlin_Jungjuk_MaterialSites_Rev3_150202 (Recon)

05001,000

Feet

DONLIN GOLD PROJECT

APPLICANT: Donlin Gold, LLC

4720 Business Park Blvd., Suite G-25

Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N

SCALE: 1 inch = 1,000 feet

DATE: 10/5/2015

DRAWING TITLE: PLAN VIEW

ACCESS ROAD

ENGINEERING MAP

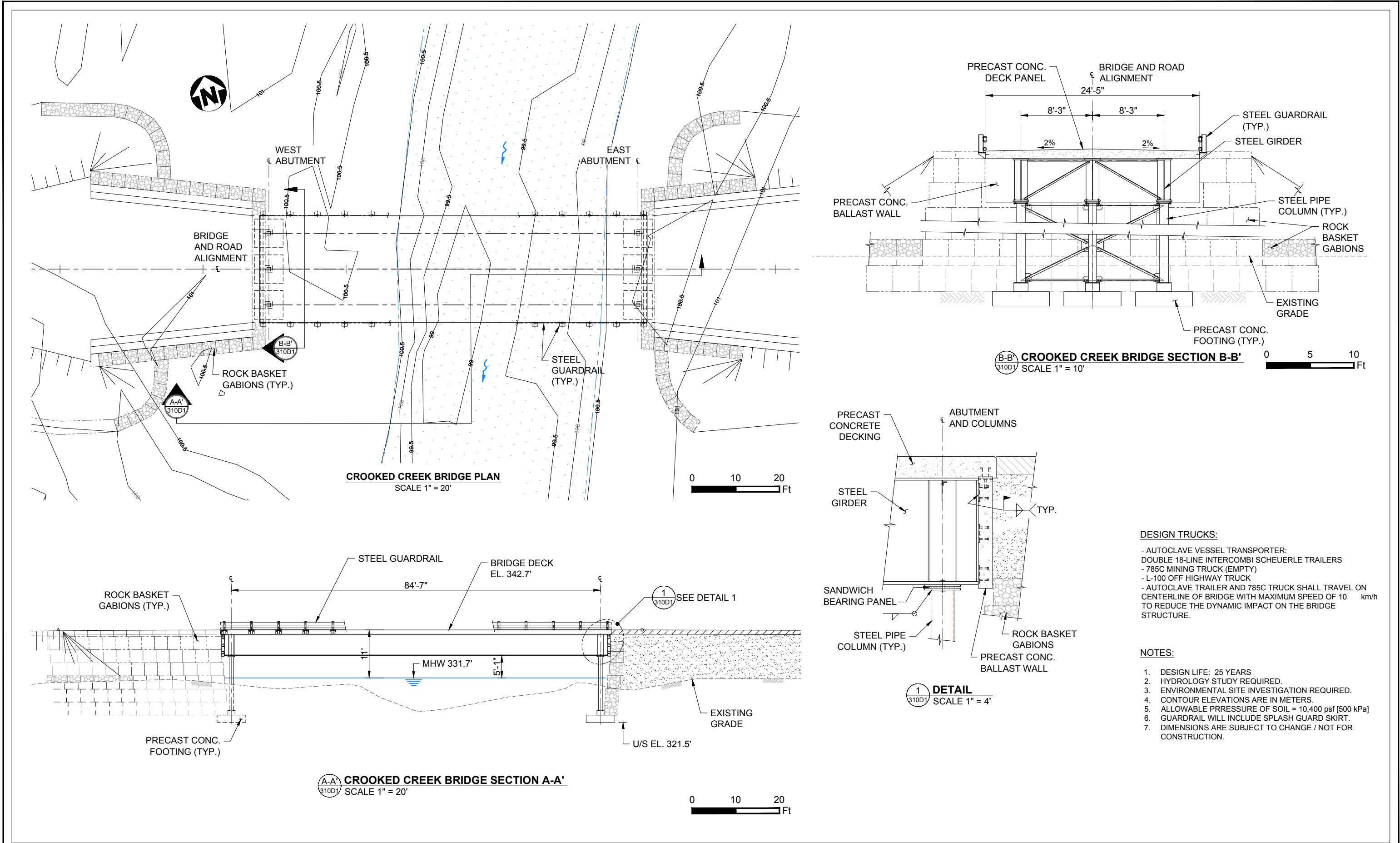
FIGURE NO.

TA-310C

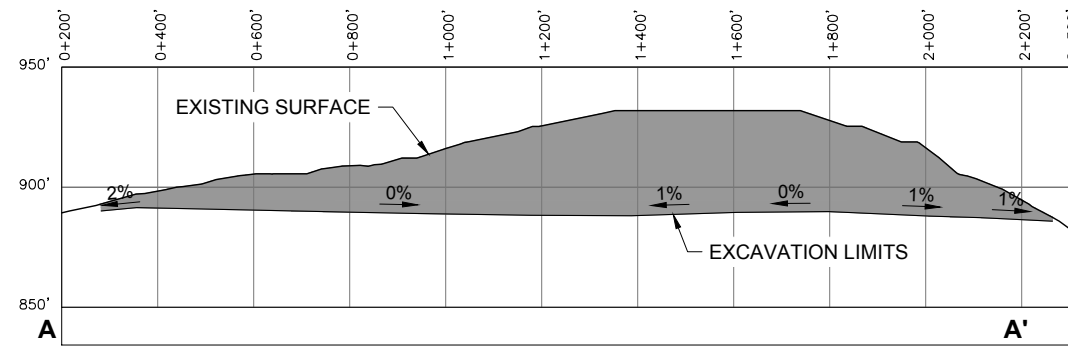
FILE NO.

POA-1995-120

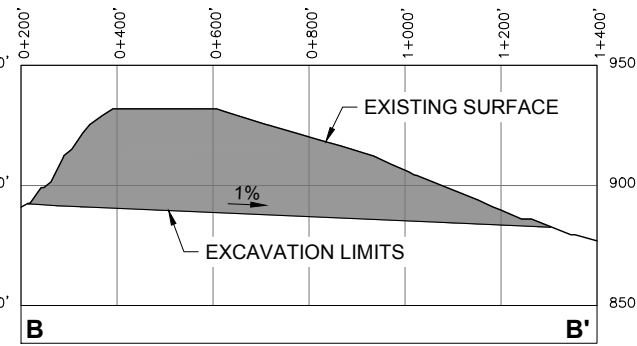
Base map Source: Sources: Esri, USGS, NOAA



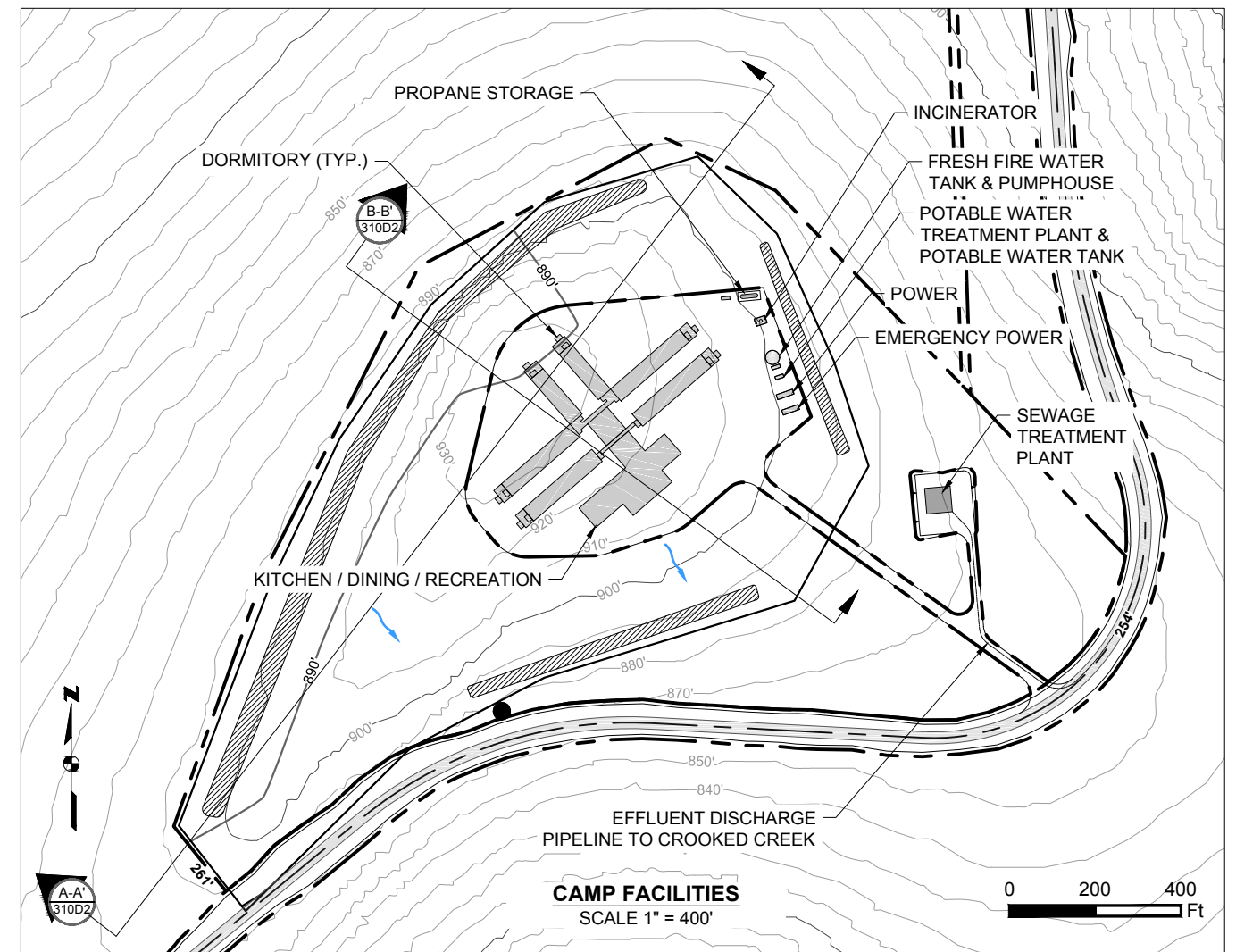
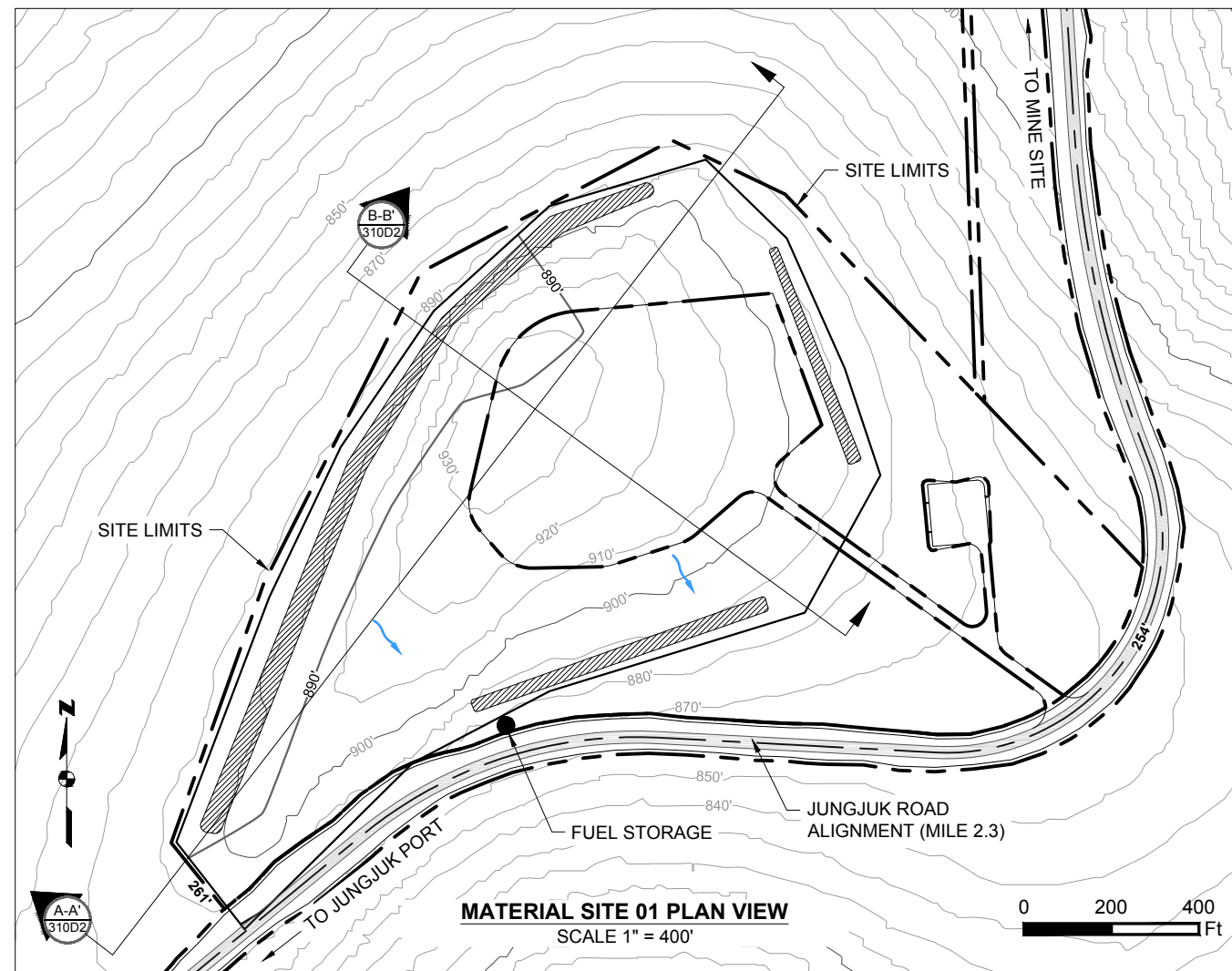
Associated Engineering Drawings A1-166549-10-13-301 (AMEC) 04/05/2011	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: CROOKED CREEK BRIDGE PLAN AND DETAILS	
	SCALE: AS SHOWN		FIGURE NO. TA-310D1	FILE NO. POA-1995-120
	DATE: 8/11/2015			



CROSS-SECTION A-A'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'



CROSS-SECTION B-B'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'



	Existing 10' Contours		Cut Area
	Existing 50' Contours		Proposed Drainage Direction
	Proposed 10' Contours		Overburden And Growth Media Stockpile
	Proposed 20' Contours		Temporary Fuel Storage

Associated Engineering Drawings

Donlin_Jungjuk_MaterialSites_Rev3_150202.dwg (RECON) FEB 2015;
A1-166549-10-13-008 vrm.dwg (AMEC) AUG 2011

DONLIN GOLD PROJECT

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

NAD 1983 UTM Zone 4N

SCALE: AS SHOWN

DATE: 8/11/2015

DRAWING TITLE:

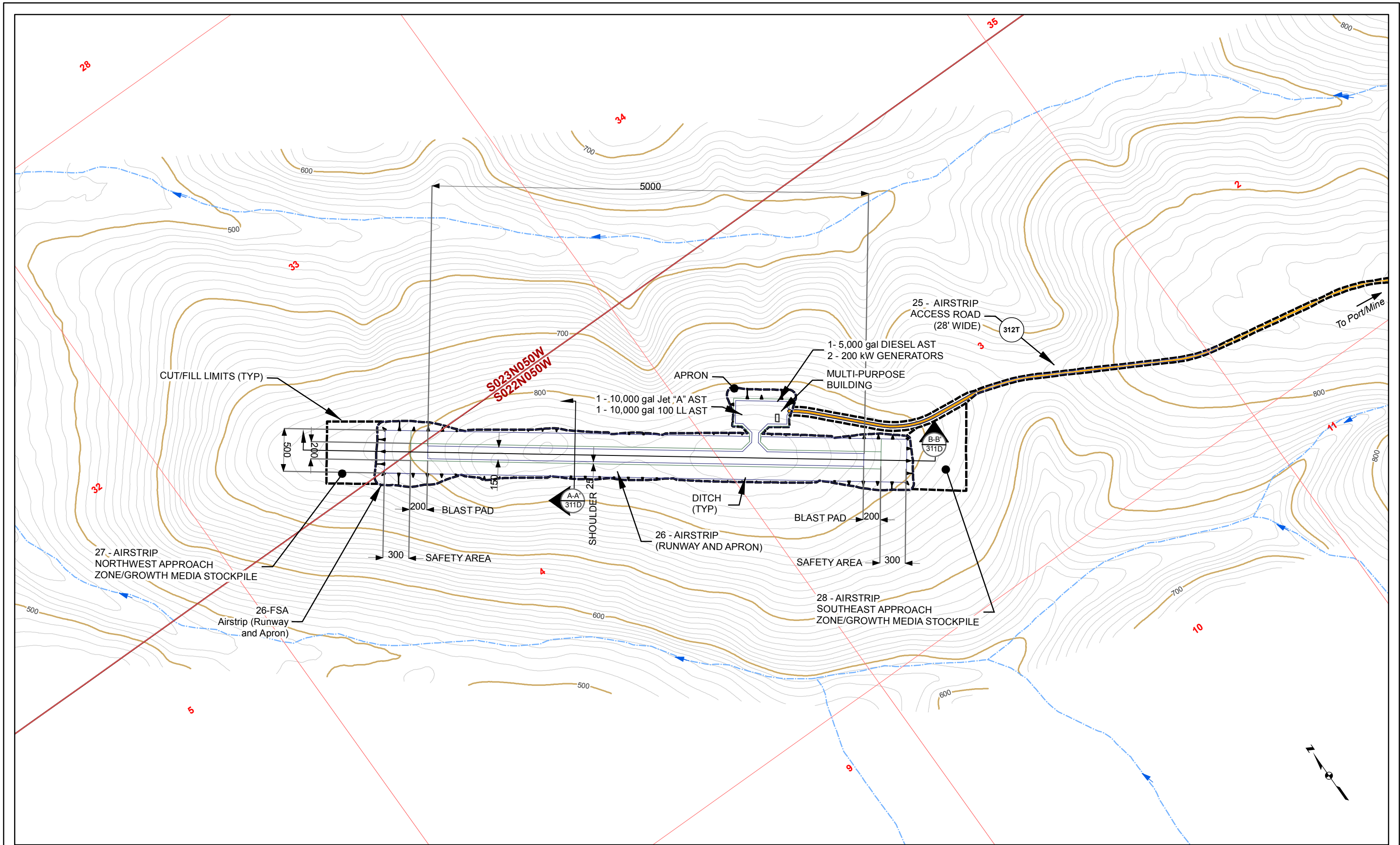
**MATERIAL SITE 01
LAYOUT AND SECTIONS**

FIGURE NO.

TA-310D2

FILE NO.

POA-1995-120



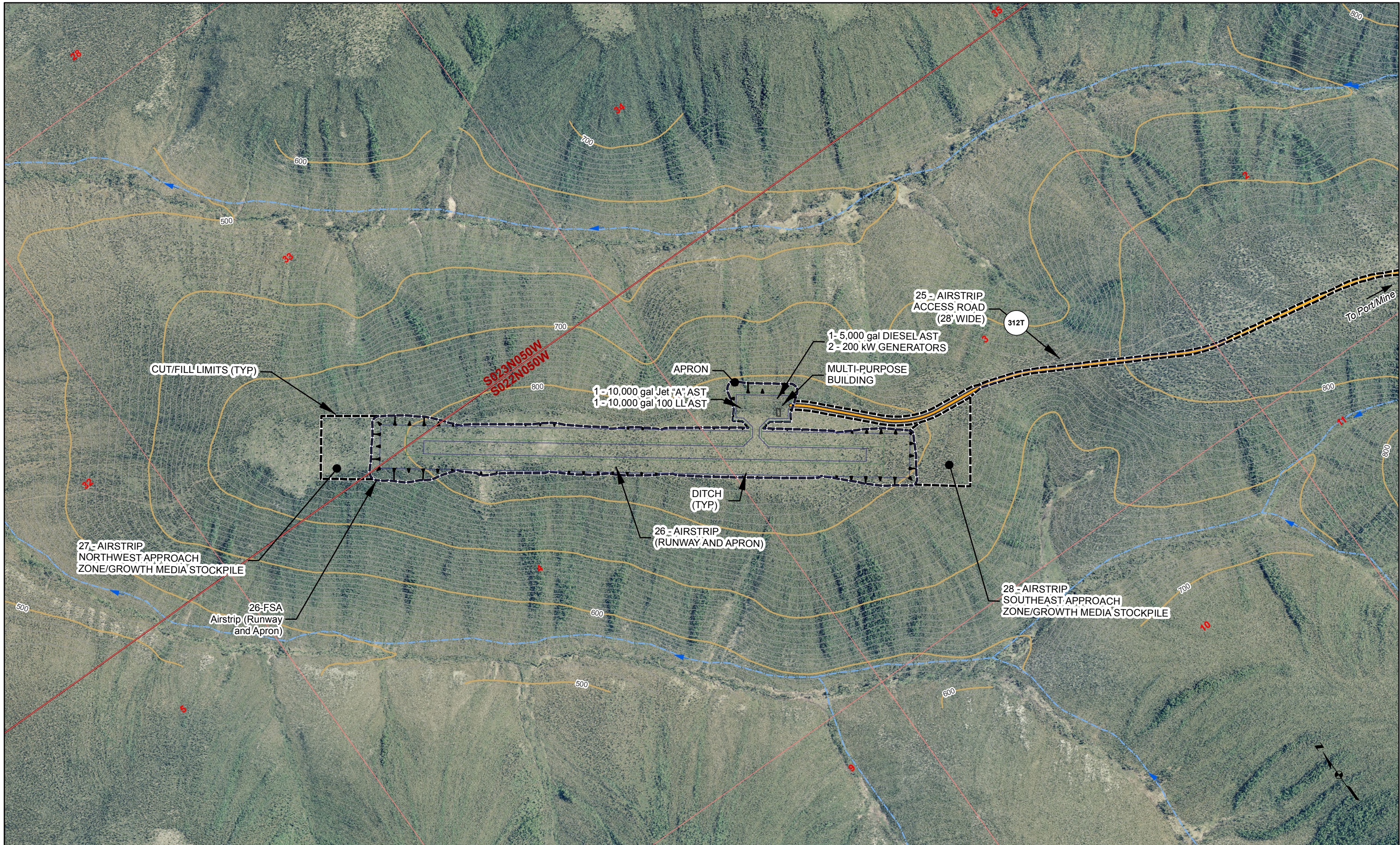
Road Milepost	Bridge	10' Contour	Cross Section	Unnamed River/Stream
Proposed Jungjuk Road	Project Disturbance Limit	100' Contour	Powerline	Named River/Stream
Culvert		Stream Flow Direction	Figure Detail Reference	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE: PLAN VIEW	
A1-166549-80-13-020.dwg (AMEC);		APPLICANT: Donlin Gold, LLC		AIRSTRIp & ACCESS ROAD	
A1-166549-80-13-006.dwg (AMEC)		4720 Business Park Blvd., Suite G-25		ENGINEERING MAP	
		Anchorage, Alaska 99503		FIGURE NO. TA-311B	
		NAD 1983 UTM Zone 4N		FILE NO. POA-1995-120	
		SCALE: 1 inch = 1,000 feet		DATE: 8/12/2015	

05001,000

Feet

Base map Source: Sources: Esri, USGS, NOAA

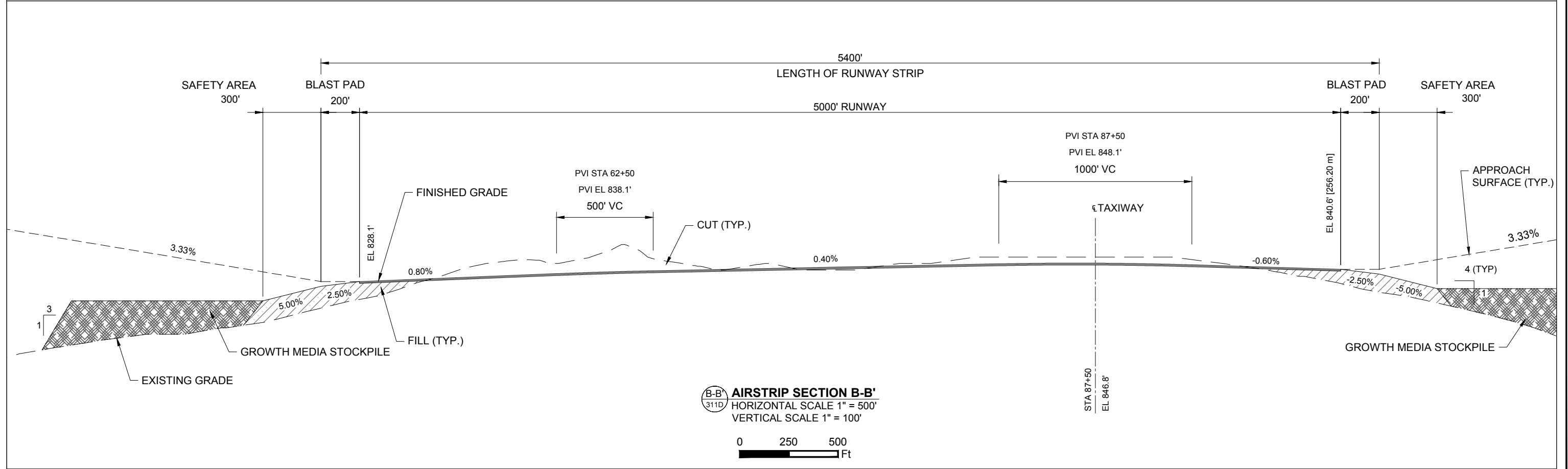
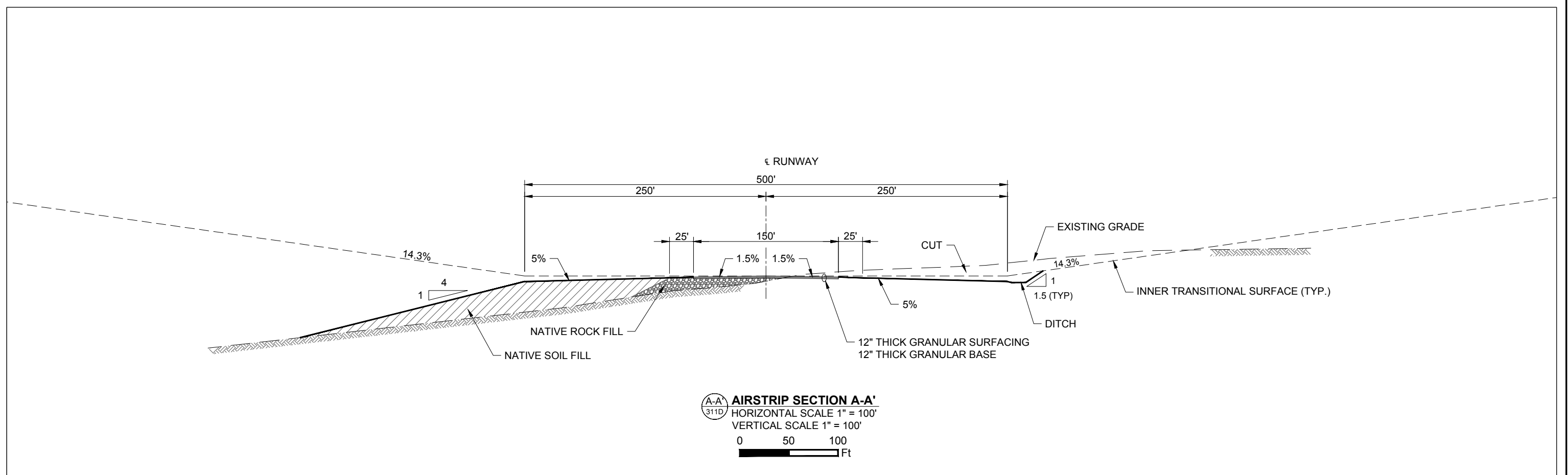


- | | | | | |
|-----------------------|---------------------------|-----------------------|-------------------------|----------------------|
| Road Milepost | Bridge | 10' Contour | Cross Section | Unnamed River/Stream |
| Proposed Jungjuk Road | Project Disturbance Limit | 100' Contour | Powerline | Named River/Stream |
| Culvert | | Stream Flow Direction | Figure Detail Reference | |

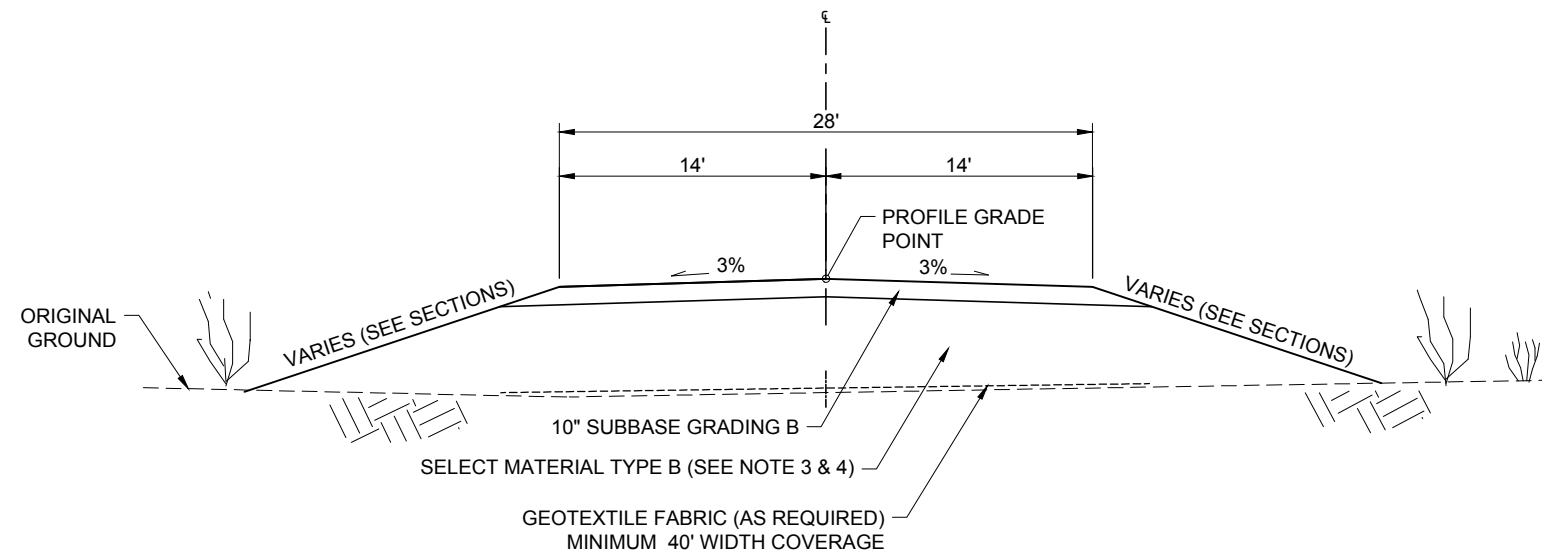
Associated Engineering Drawings	
A1-166549-80-13-020.dwg (AMEC);	
A1-166549-80-13-006.dwg (AMEC)	
0 500 1,000 Feet	

DONLIN GOLD PROJECT	
APPLICANT: Donlin Gold, LLC	
4720 Business Park Blvd., Suite G-25	
Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: 1 inch = 1,000 feet	DATE: 8/12/2015

DRAWING TITLE: PLAN VIEW	
AIRSTRIP & ACCESS ROAD	
ENGINEERING MAP	
FIGURE NO. TA-311C	FILE NO. POA-1995-120



	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	A1-166549-80-13-020 (AMEC) 04/05/2011; A1-166549-80-13-021 (AMEC) 04/05/2011		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		AIRSTRIP SECTIONS	
	SCALE: AS SHOWN		DATE: 8/11/2015		FIGURE NO. TA-311D	FILE NO. POA-1995-120

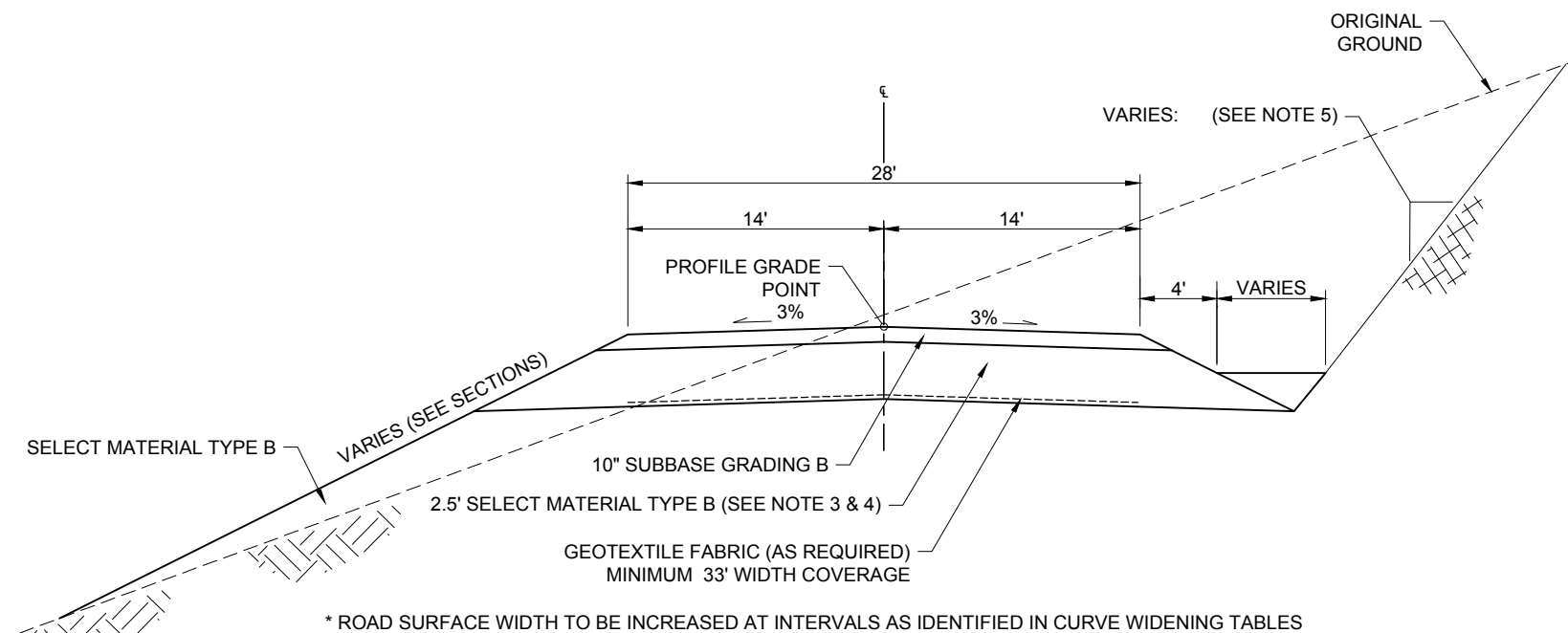


SECTION TYPICAL FOR WETLAND AND PERMAFROST INTERVALS IN MOSTLY LEVEL TERRAIN.

A-A'
312T
ROAD TYPICAL SECTION FOR WETLAND OR PERMAFROST AREAS
SCALE 1" = 10'
0 5 10
Ft

NOTES:

1. CLEARING LIMITS ARE TOE OF FILL.
2. SUBBASE GRADING B; TO CONSIST OF 3" MINUS, WELL GRADED, GRANULAR MATERIAL WITH 6 TO 10% PASSING THE 200 SIEVE. MATERIAL TO BE DURABLE
3. SELECT MATERIAL TYPE B; TO CONSIST OF COARSE ROCK OR GRAVEL. NON-FROST-SUSCEPTIBLE.
4. DEPTH OF FILL WILL VARY DEPENDING ON SOIL TYPE AND CONDITION. 6' TOTAL EMBANKMENT DEPTH WILL TYPICALLY BE THE MINIMUM.
5. TO THE EXTENT POSSIBLE, NATIVE VEGETATION AND GROUND SURFACE TO BE LEFT INPLACE.



B-B'
312T
ROAD TYPICAL SECTION FOR AREAS WITH GOOD SOILS OR ROCK
SCALE 1" = 10'
0 5 10
Ft

NOTES:

1. CLEARING LIMITS MIN. 3.3' BEYOND TOP OF CUT OR TOE OF FILL.
2. SUBBASE GRADING B; TO CONSIST OF 3" MINUS, WELL GRADED, GRANULAR MATERIAL WITH 6 TO 10% PASSING THE 200 SIEVE. MATERIAL TO BE DURABLE
3. SELECT MATERIAL TYPE B; TO CONSIST OF COARSE ROCK OR GRAVEL. NON-FROST-SUSCEPTIBLE.
4. DEPTH OF FILL WILL VARY DEPENDING ON SOIL TYPE AND CONDITION. 3.3' TOTAL EMBANKMENT DEPTH WILL TYPICALLY BE THE MINIMUM.
5. 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
6. ACCOMODATE EXCESS EXCAVATION AND WASTE DISPOSAL BY FLATTENING AND/OR EXTENDING INSLOPE. EXTENT TO BE DETERMINED BY FIELD ENGINEER.

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 SECTIONS

SCALE: AS SHOWN

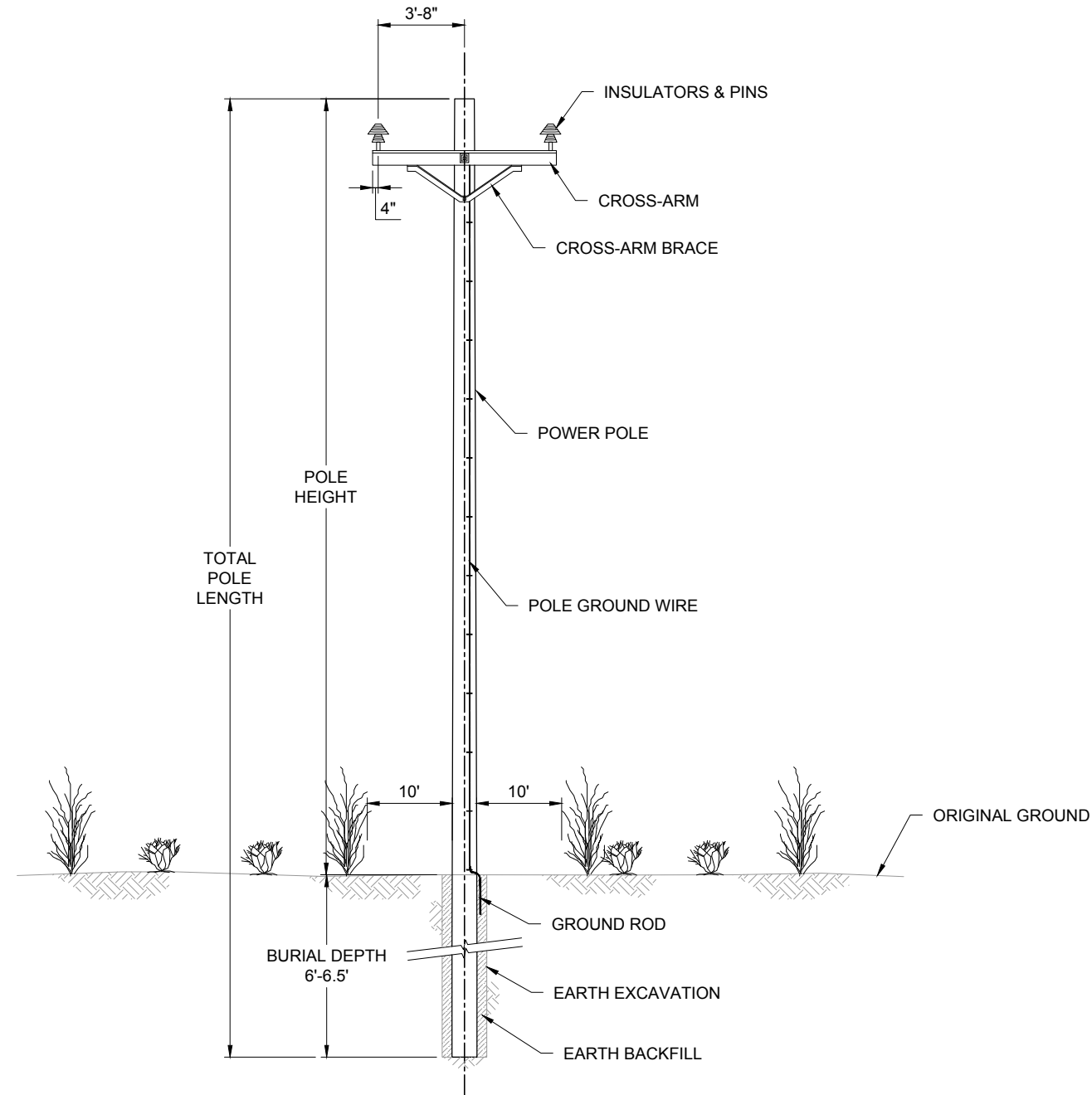
DATE: 8/11/2015

FIGURE NO.

TA-312T

FILE NO.

POA-1995-120

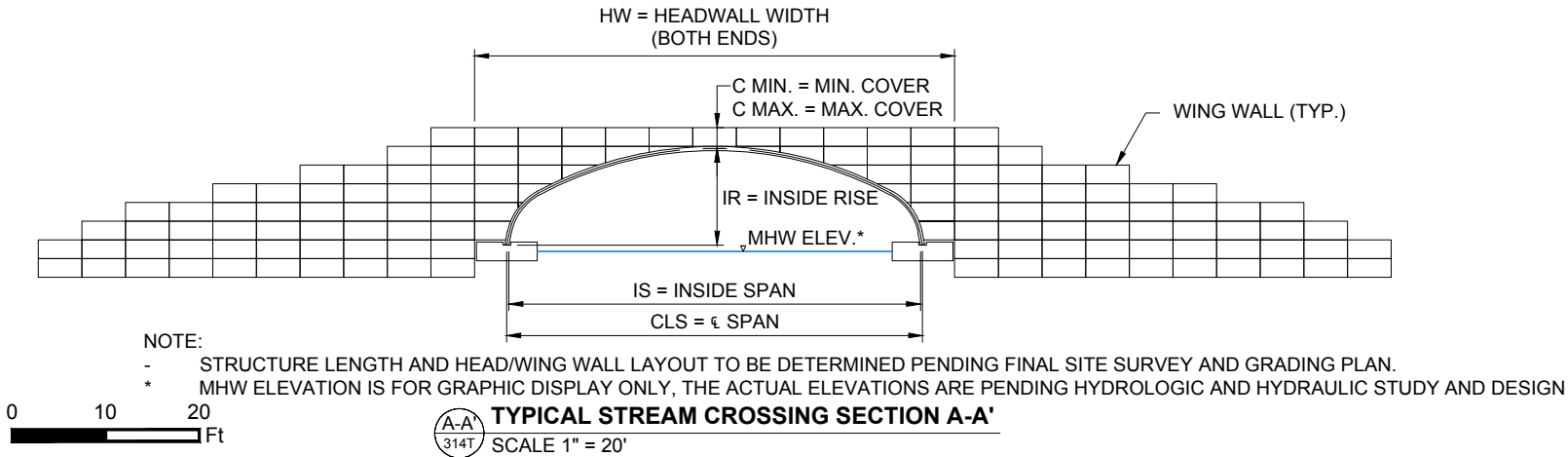
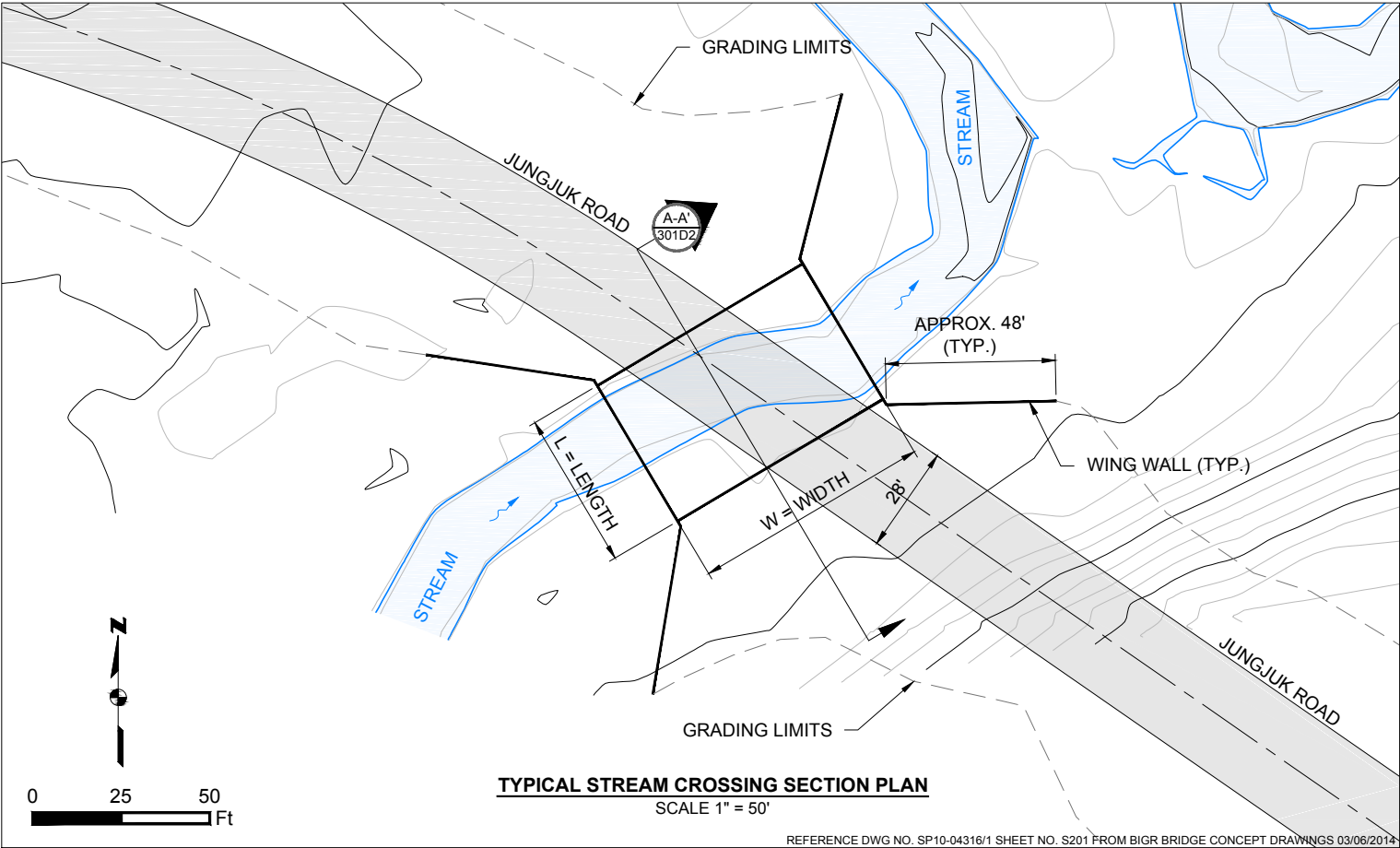


NOTES:

1. CLEARING LIMITS TO BE MIN. 10' EACH SIDE OF POWER POLE.
2. MULCH AND ORGANIC DEBRIS FROM CLEARING TO REMAIN ON GROUND SURFACE.
3. SOIL NOT TO BE DISTURBED EXCEPT AT SPECIFIC LOCATIONS AS PERMITTED.
4. DIMENSIONS ARE APPROXIMATE.

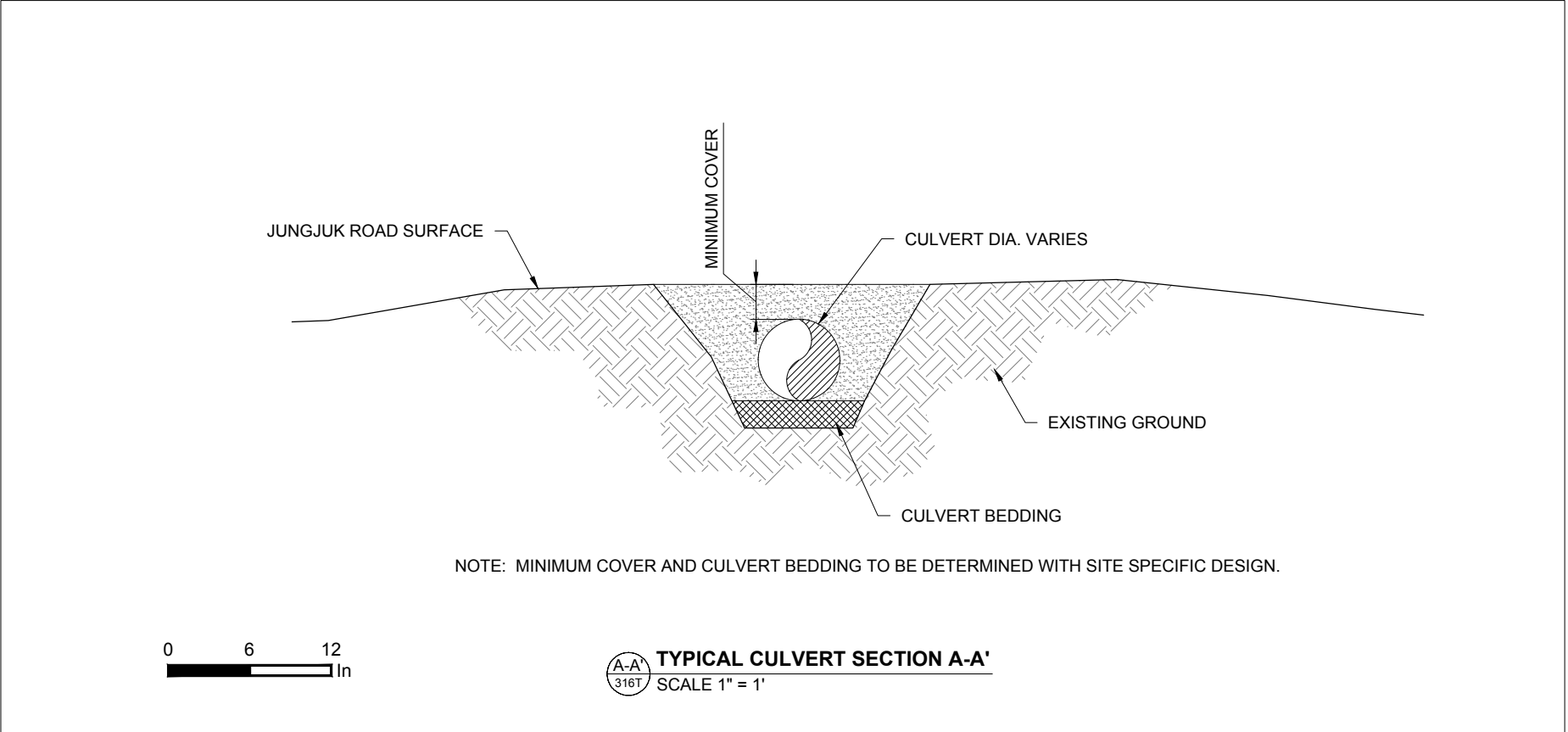
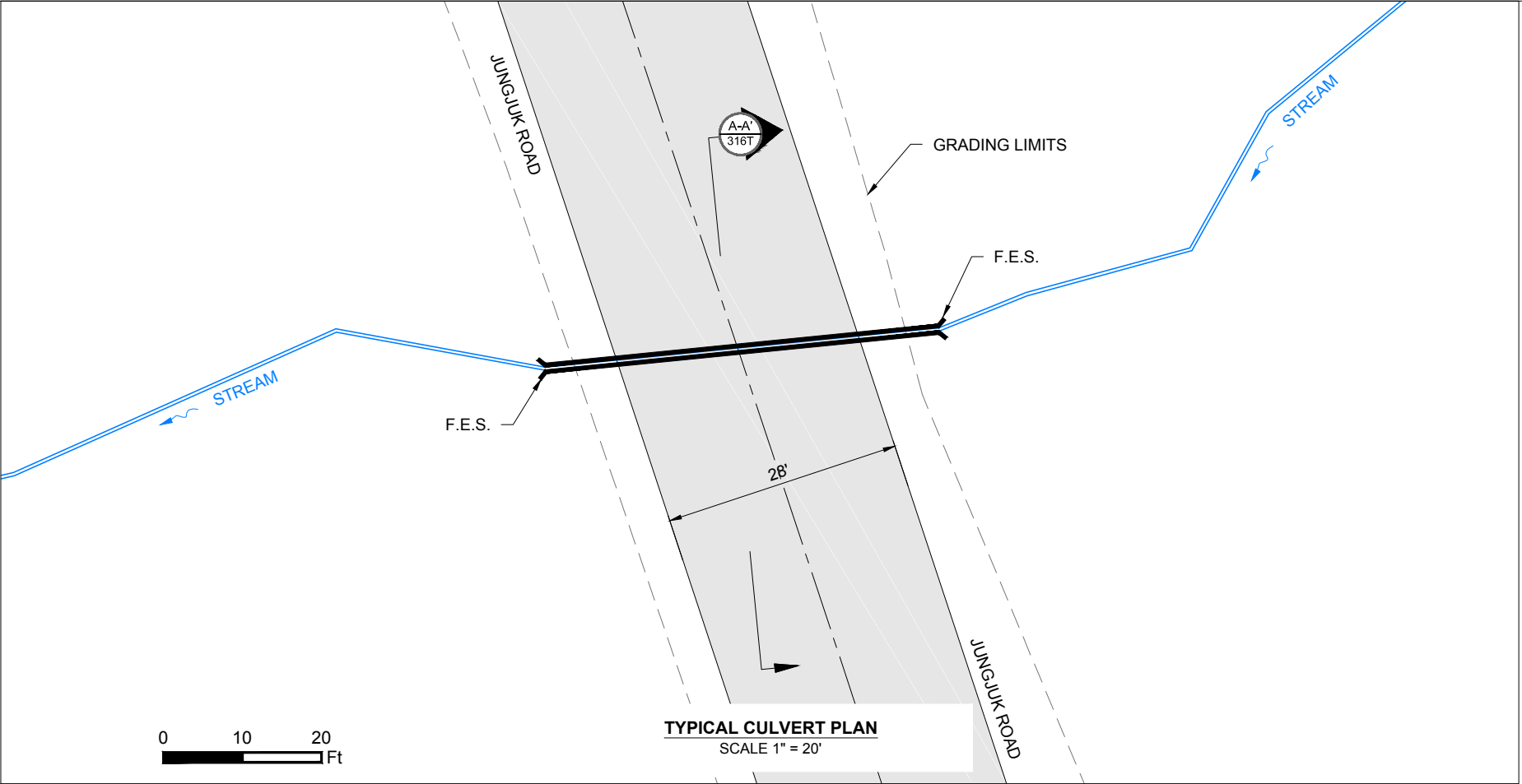
A POWERPOLE SECTION
313T N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	M21E-DT-EE_01.dwg (BAKER) SEP 2014		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL POWERPOLE CLEARING LIMITS DETAILS	
			NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
			SCALE: AS SHOWN	DATE: 8/11/2015	TA-313T	POA-1995-120



CREEK CROSSING DIMENSIONS								
	W	L	HW	IR	C MIN.	C MAX.	IS	CLS
NORTH FORK GETMUNA CREEK	67'-6"	44'-5 1/2"	48'	10'-1 1/8"	2'	3'	44'-0 3/16"	44'-5 9/16"
SOUTH FORK GETMUNA CREEK	70'	44'-5 1/2"	48'	10'-1 1/8"	2'	3'	44'-0 3/16"	44'-5 9/16"
GETMUNA TRIBUTARY CREEK	70'	30'-10 1/2"	40'	9'-11 1/4"	3'	4'	30'-5 1/16"	30'-10 9/16"
UPPER JUNGJUK CREEK	50'	29'-11 3/4"	32'	10'-10 3/4"	3'	4'	29'-6 3/8"	29'-11 7/8"
LOWER JUNGJUK CREEK	40'-7 3/4"	67'-6"	44'	14'-10 3/16"	3'	4'	40'-2 3/16"	40'-7 11/16"

DIMENSIONS BASED ON REFERENCE DRAWINGS SP10-04316/1 S101, S201, S102, S202, S103, S203, S104, S204, S105, S205 FROM BGR BRIDGE CONCEPT DRAWINGS.



	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: TYPICAL CULVERT			
			NAD 1983 UTM Zone 4N		FIGURE NO.		FILE NO.	
					TA-316T		POA-1995-120	
			SCALE: AS SHOWN		DATE: 8/11/2015			

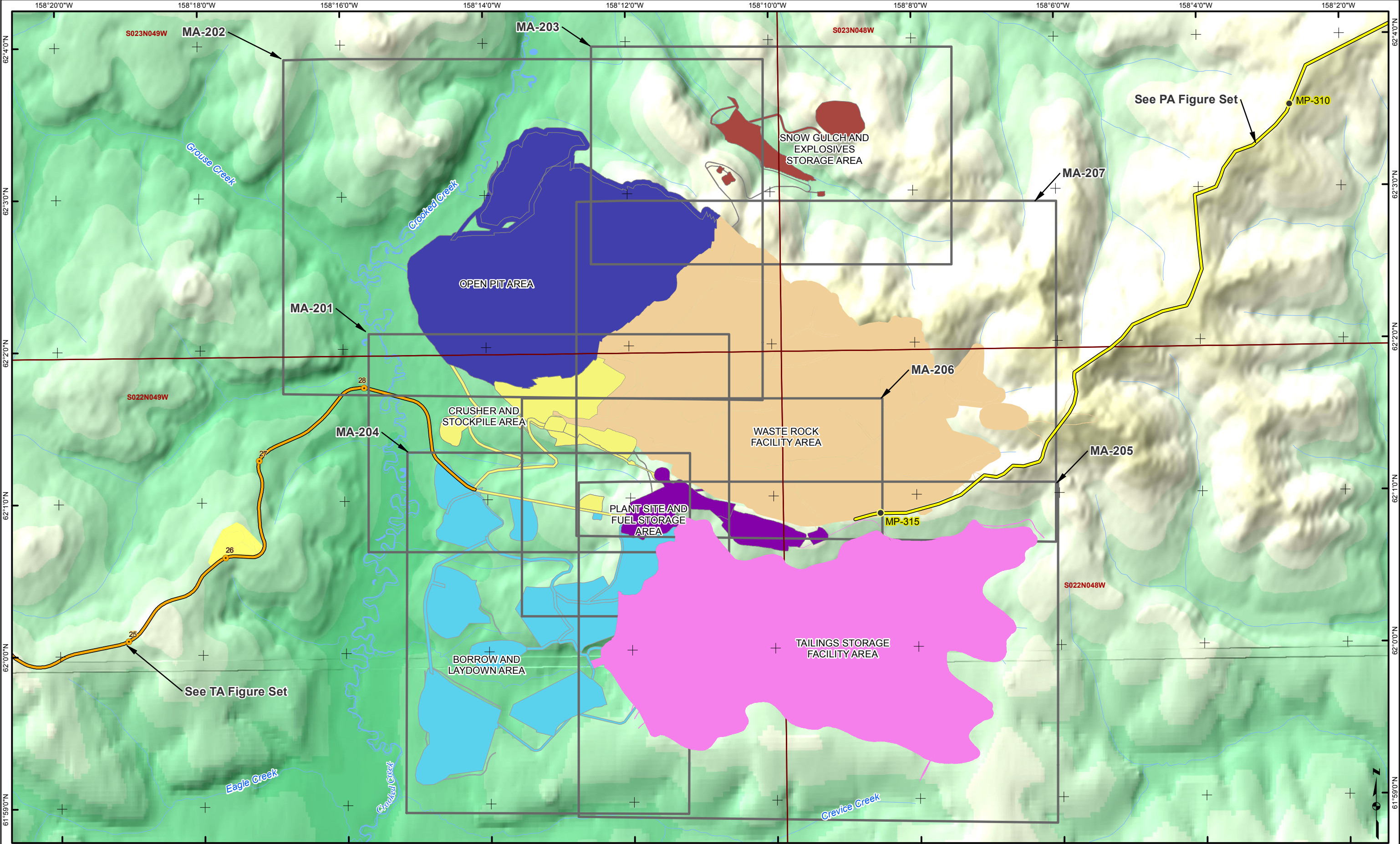


Figure Set		Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW MINE AREA INDEX MAP	
● Pipeline Milepost (MP)		● Proposed Natural Gas Pipeline		MA-206		MA-203	
● Road Milepost		● Proposed Jungjuk Road		MA-205		MA-202	
— River/Stream		— River/Stream		MA-204		MA-201	
				MA-206		MA-203	
				MA-205		MA-202	
				MA-204		MA-201	

01,7503,500

Feet

NAD 1983 UTM Zone 4N

SCALE: 1 inch = 3,500 feet

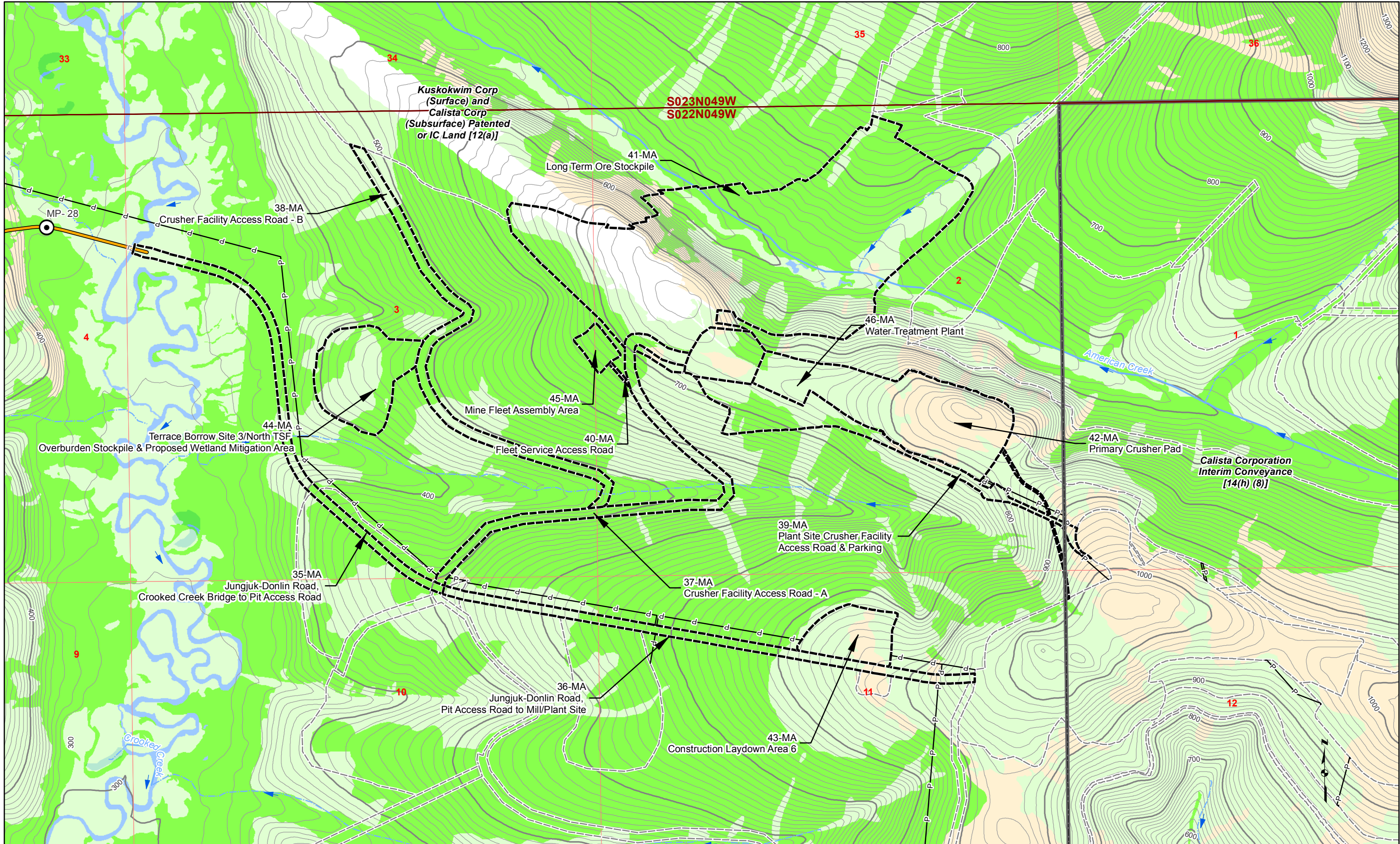
DATE: 10/5/2015

FIGURE NO.

MA-200G

FILE NO.

POA-1995-120



- | | | | | |
|---------------------------|--------|----------|-----------------------|-----------------------|
| Land Status | Mosaic | Waters | 100' Contour | Proposed Jungjuk Road |
| Road Milepost | Upland | Wetlands | 10' Contour | Unnamed River/Stream |
| Project Disturbance Limit | | | -P- Powerline | Named River/Stream |
| | | | Stream Flow Direction | |

Associated Engineering Drawings

0 500 1,000
Feet

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

NAD 1983 UTM Zone 4N

SCALE: 1 inch = 1,000 feet

DATE: 10/5/2015

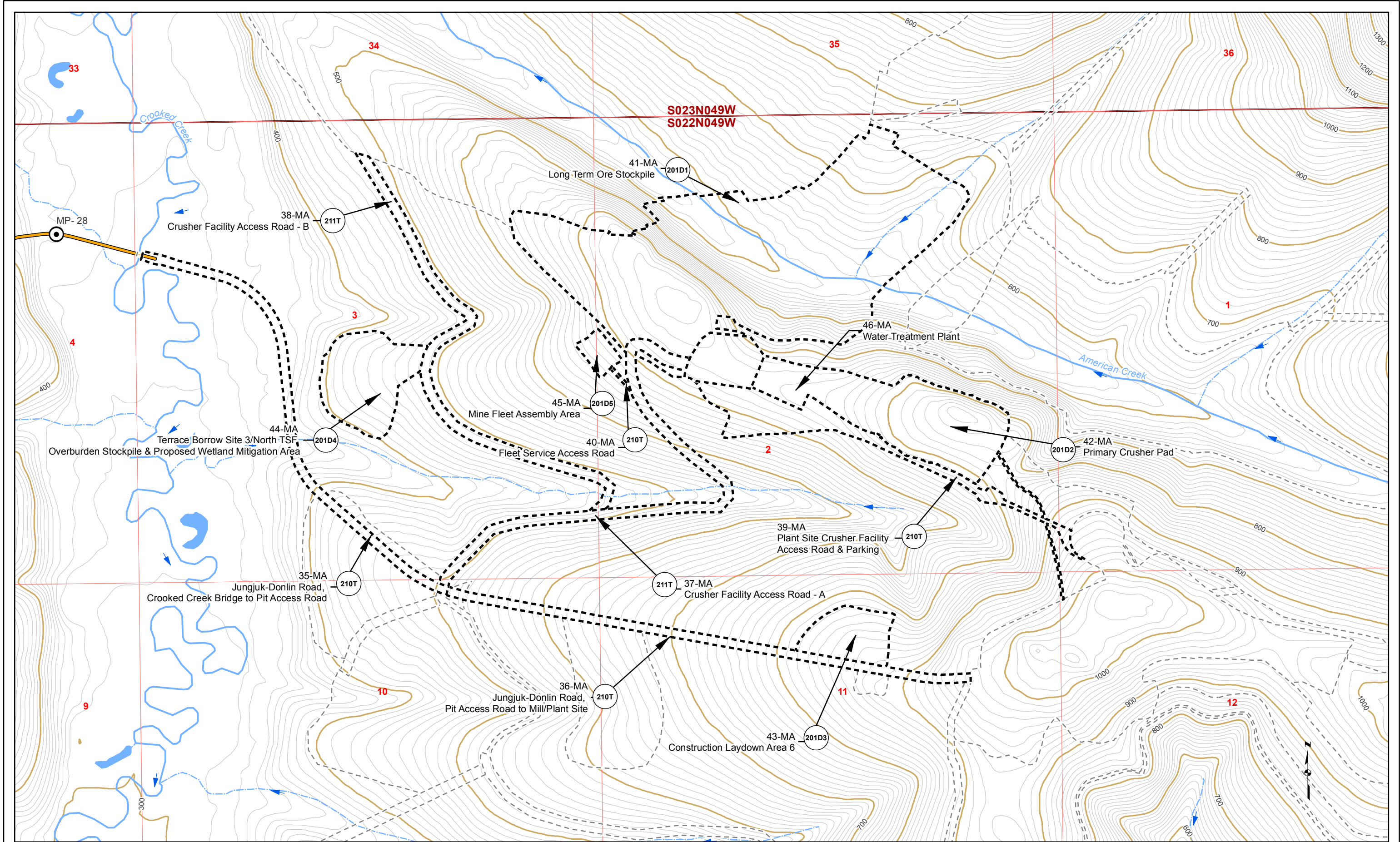
DRAWING TITLE: **PLAN VIEW
MINE AREA
WETLANDS MAP**

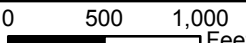
FIGURE NO.

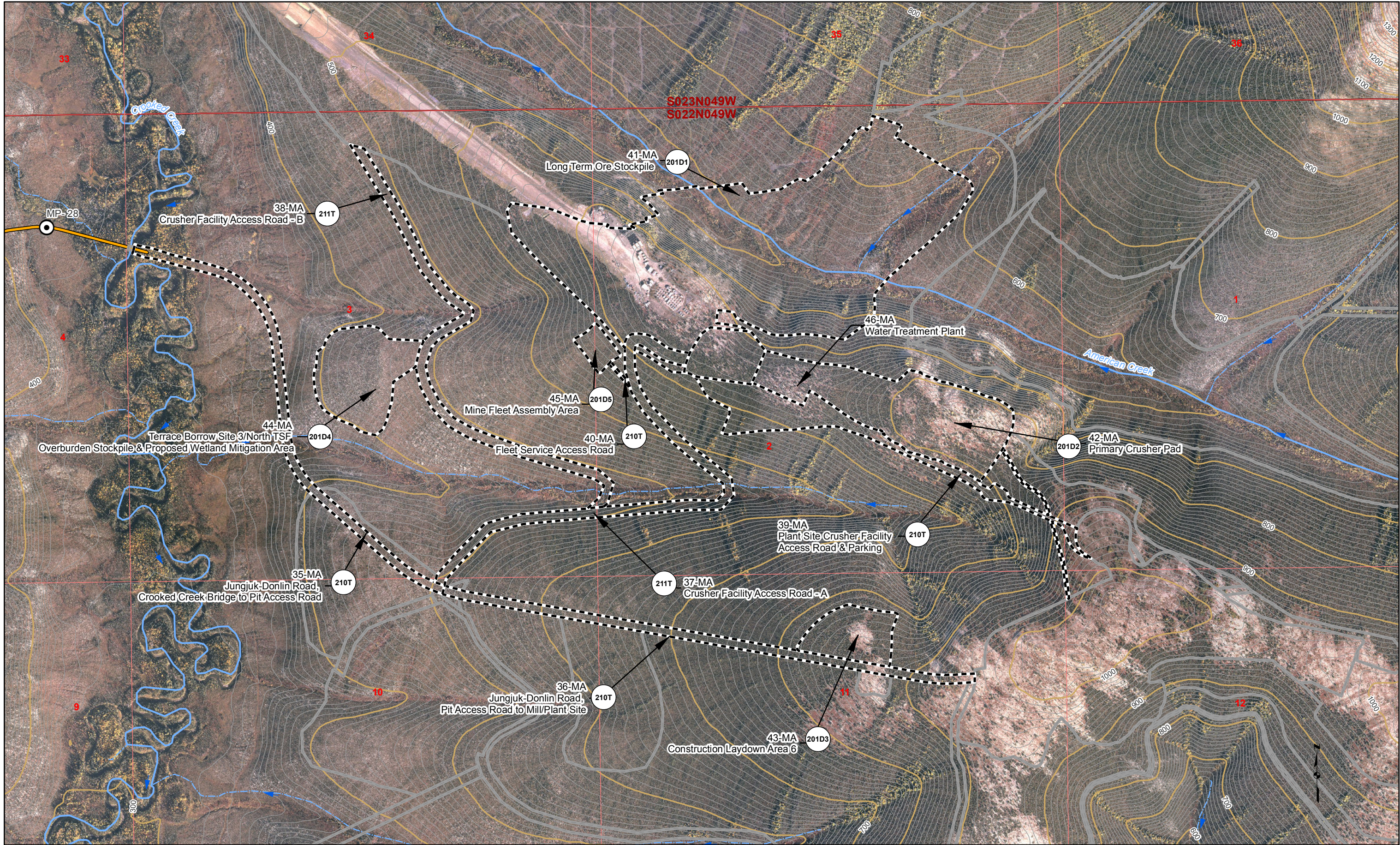
MA-201A

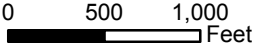
FILE NO.

POA-1995-120



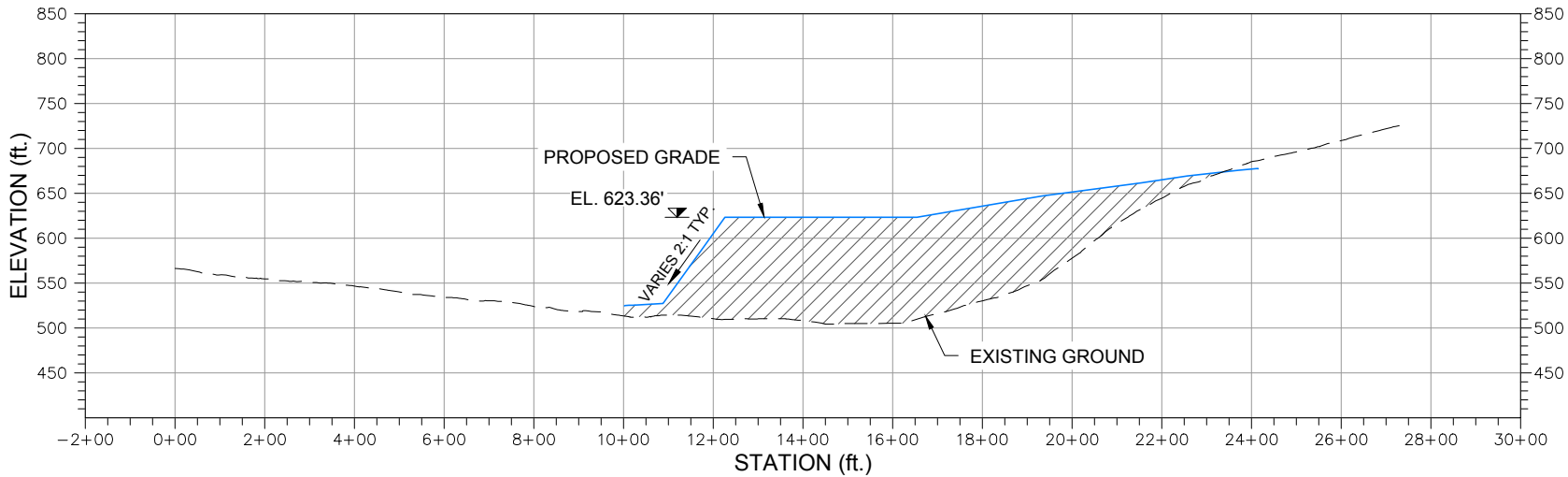
 Proposed Jungjuk Road  Road Milepost	 10' Contour  100' Contour  Stream Flow Direction	 Cross Section  Project Disturbance This Sheet  Proposed Disturbance (Other Sheets)	 Unnamed River/Stream  Named River/Stream  Figure Detail Reference	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP	
						NAD 1983 UTM Zone 4N		FIGURE NO. MA-201B	FILE NO. POA-1995-120
				SCALE: 1 inch = 1,000 feet		DATE: 10/5/2015			



 Proposed Jungjuk Road  Road Milepost	 10' Contour  100' Contour  Stream Flow Direction	 Cross Section  Project Disturbance This Sheet  Proposed Disturbance (Other Sheets)	 Unnamed River/Stream  Named River/Stream  Figure Detail Reference	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP	
				 0 500 1,000 Feet		NAD 1983 UTM Zone 4N		FIGURE NO. MA-201C	FILE NO. POA-1995-120
				SCALE: 1 inch = 1,000 feet		DATE: 10/5/2015			



LONG TERM ORE STOCKPILE PLAN
SCALE 1" = 500'



LONG TERM ORE STOCKPILE SECTION A-A'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 200'

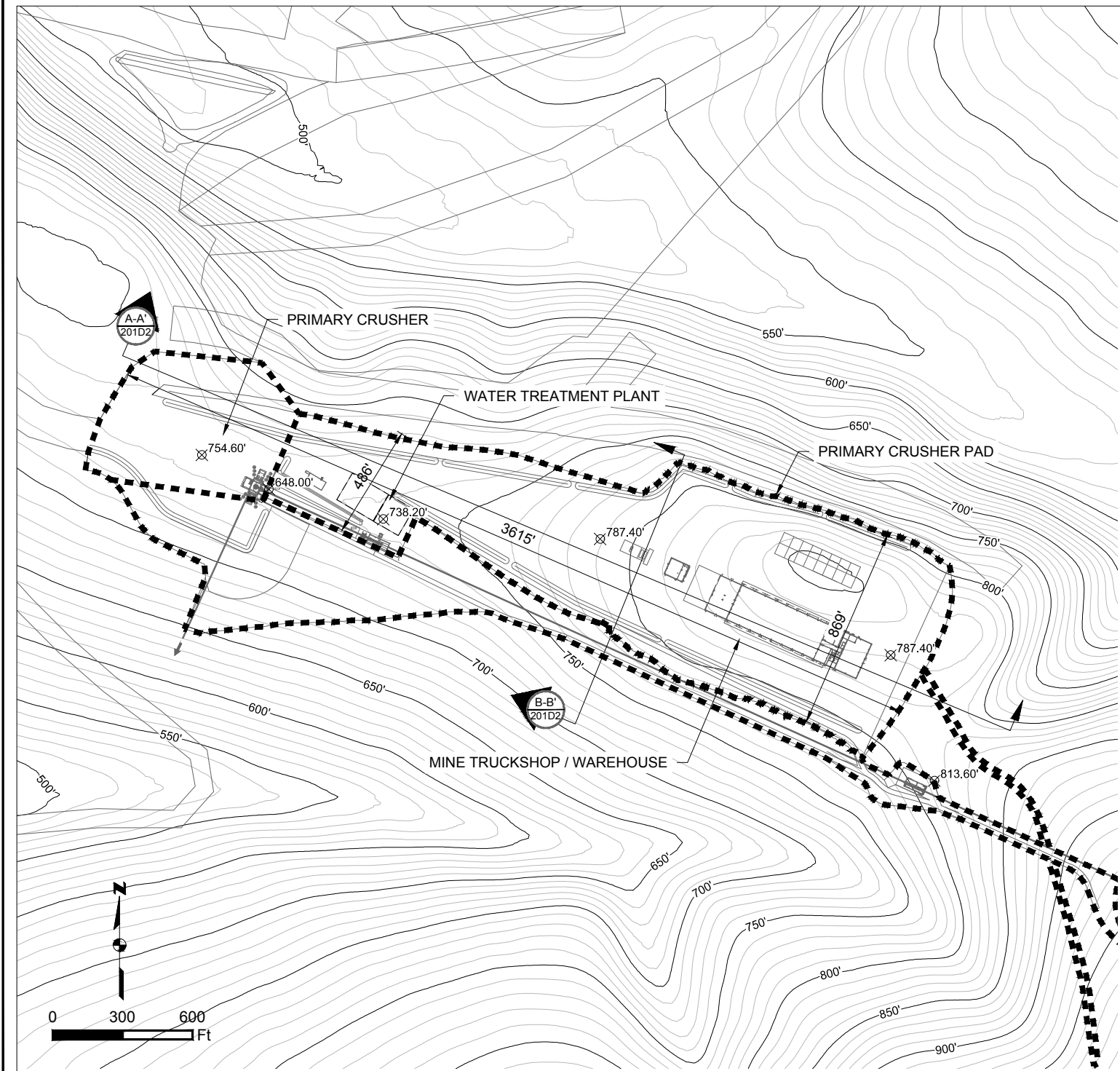
— Existing 10' Contours	▨ Fill Area	■ Project Disturbance
— Existing 50' Contours	— Existing Ground	
— Proposed 10' Contours	— Proposed Grade	
— Proposed 50' Contours		

NOTE:
STOCKPILE WILL VARY IN SIZE AND SHAPE THROUGHOUT THE MINE LIFE. AT THE END OF MINE LIFE, ALL STOCKPILED ORE WILL BE FED TO THE PLANT AND THE STOCKPILE WILL NO LONGER EXIST.

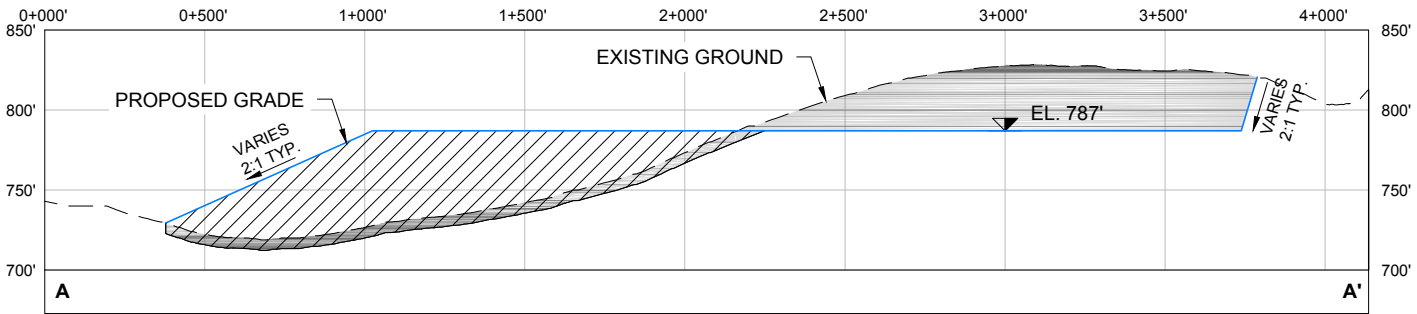
Associated Engineering Drawings
ORE_STOCKPILE_BERM_AND_SUMP.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: AS SHOWN	DATE: 9/11/2015

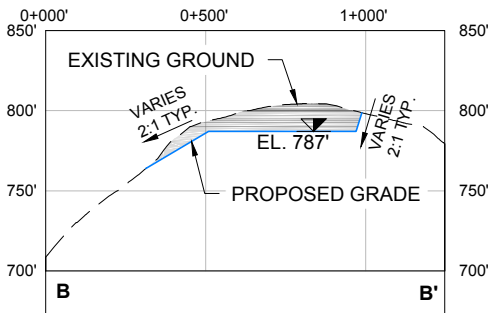
DRAWING TITLE: LONG TERM ORE STOCKPILE DETAIL	
FIGURE NO. MA-201D1	FILE NO. POA-1995-120



PRIMARY CRUSHER PAD PLAN
SCALE 1" = 600'



PRIMARY CRUSHER PAD SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



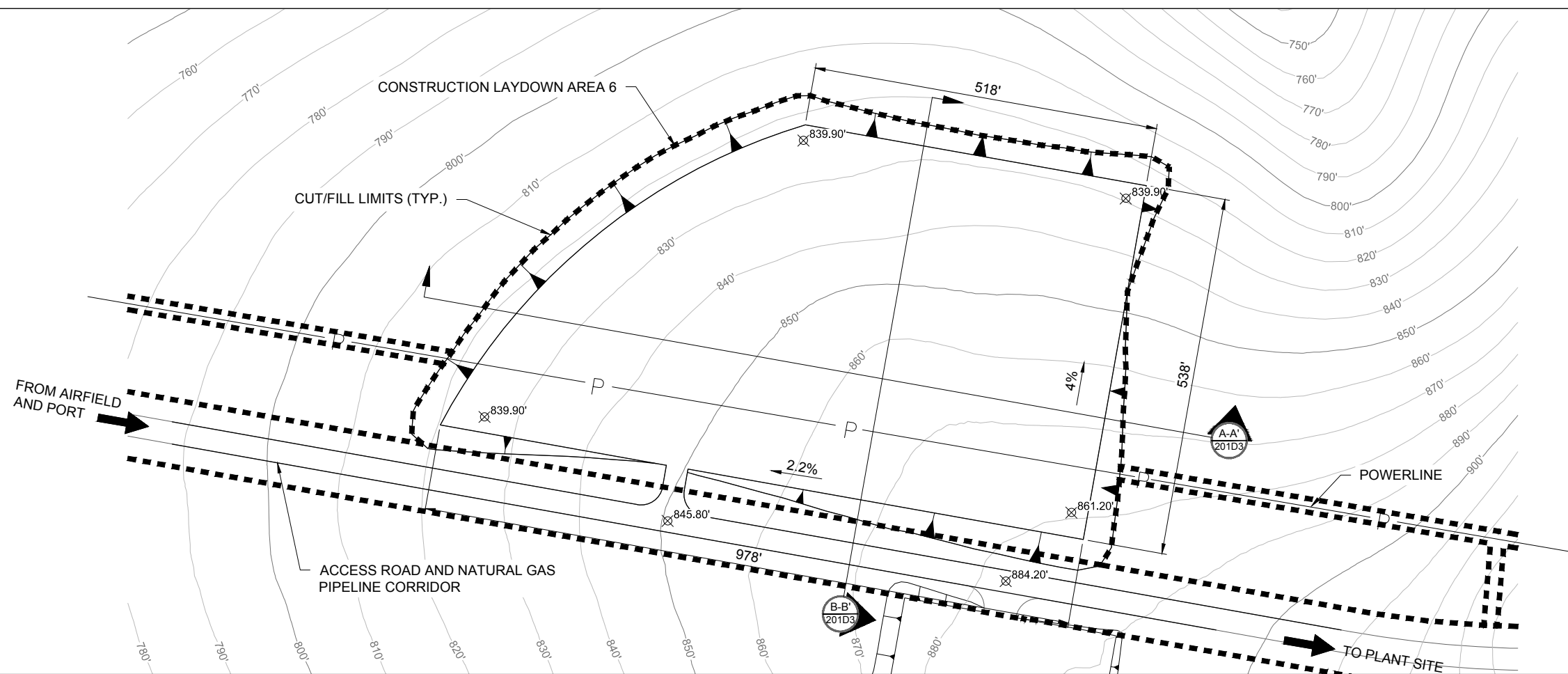
PRIMARY CRUSHER PAD SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

Existing 10' Contours	Fill Area	Project Disturbance
Existing 50' Contours	Cut Area	
	Existing Ground	
	Proposed Grade	

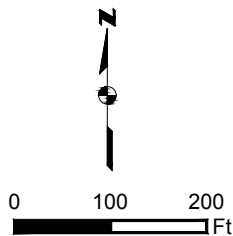
Associated Engineering Drawings
PRIMARY_CRUSHER_WATER_TREATMENT_PLANT_AND_MINE_TRUCKSHOP.dwg (BGC) JUN 2012; ExToCad_Water Treatment_polys.DWG (NovaGold) AUG 2015

DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: AS SHOWN	DATE: 9/28/2015

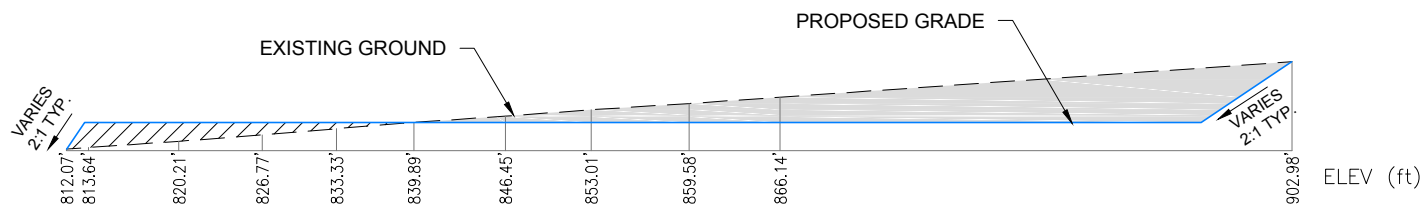
DRAWING TITLE: PRIMARY CRUSHER PAD DETAIL	
FIGURE NO. MA-201D2	FILE NO. POA-1995-120



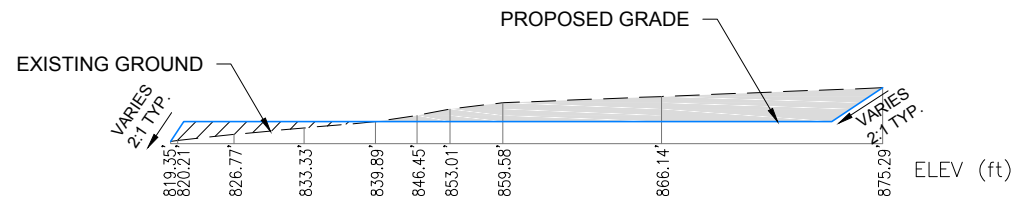
- NOTES:
1. ALL EXISTING CONTOUR ELEVATIONS ARE IN FEET UNLESS NOTED OTHERWISE.
 2. ALL PROPOSED ELEVATIONS AND DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.



CONSTRUCTION LAYDOWN AREA 6 PLAN
SCALE 1" = 200'



A-A' 201D3 CONSTRUCTION LAYDOWN AREA 6 SECTION A-A'
N.T.S.



B-B' 201D3 CONSTRUCTION LAYDOWN AREA 6 SECTION B-B'
N.T.S.

Existing 10' Contours	Fill Area	Project Disturbance
Existing 50' Contours	Cut Area	
	Existing Ground	
	Proposed Grade	

Associated Engineering Drawings
M15C-SP-CN_01.dwg (BAKER) SEP 2014

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

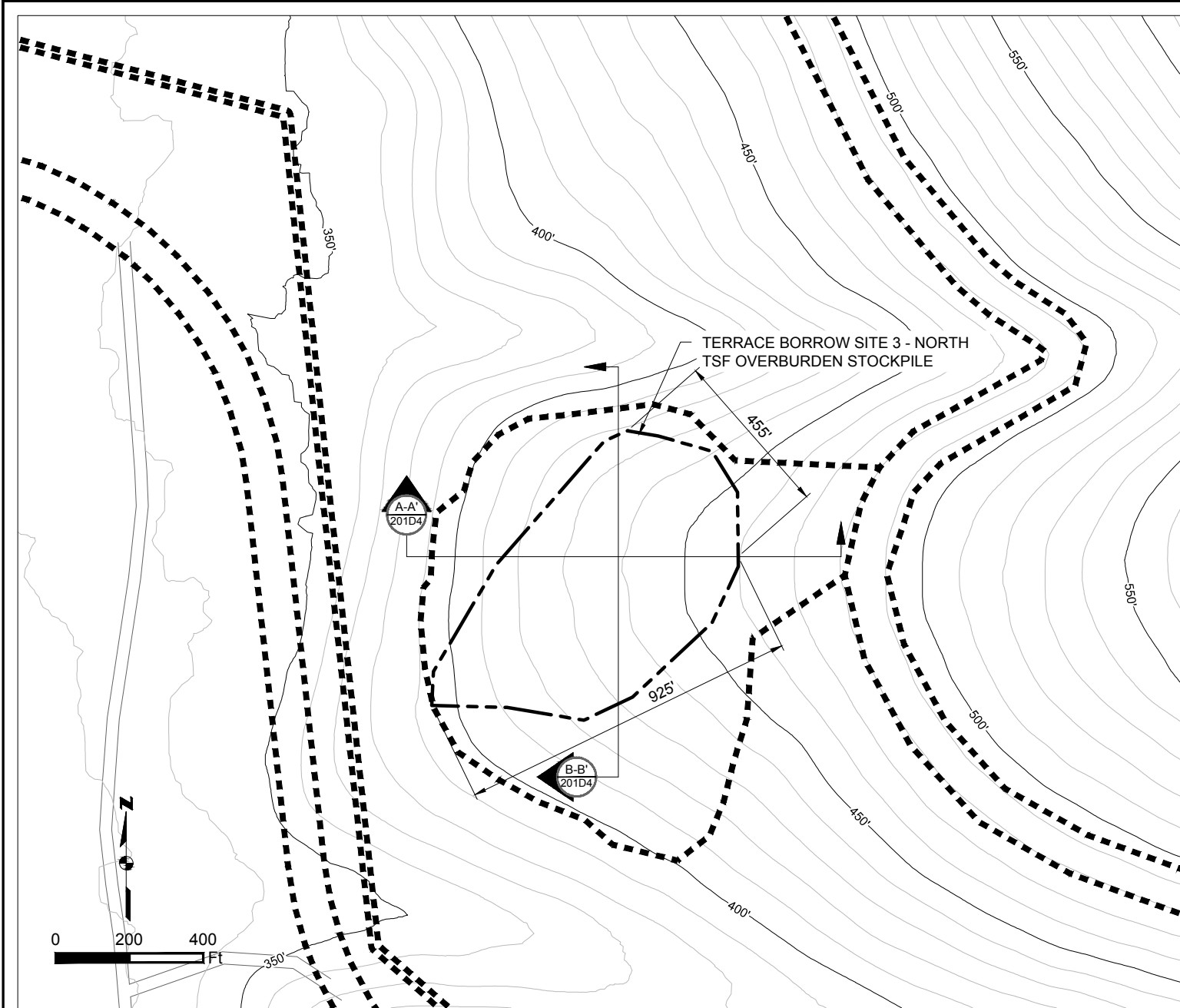
DRAWING TITLE:
**CONSTRUCTION LAYDOWN
AREA 6 DETAIL**

SCALE: AS SHOWN

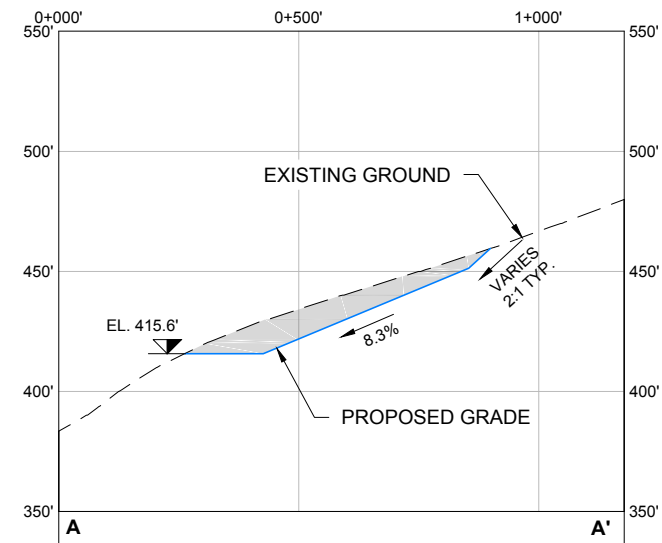
DATE: 9/4/2015

FIGURE NO.
MA-201D3

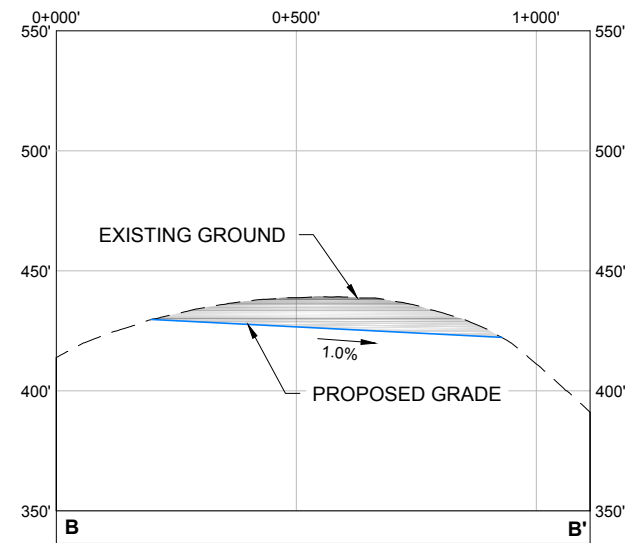
FILE NO.
POA-1995-120



TERRACE BORROW SITE 3 - NORTH TSF OVERBURDEN STOCKPILE PLAN
SCALE 1" = 400'



TERRACE BORROW SITE 3 - NORTH TSF OVERBURDEN STOCKPILE SECTION A-A'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'

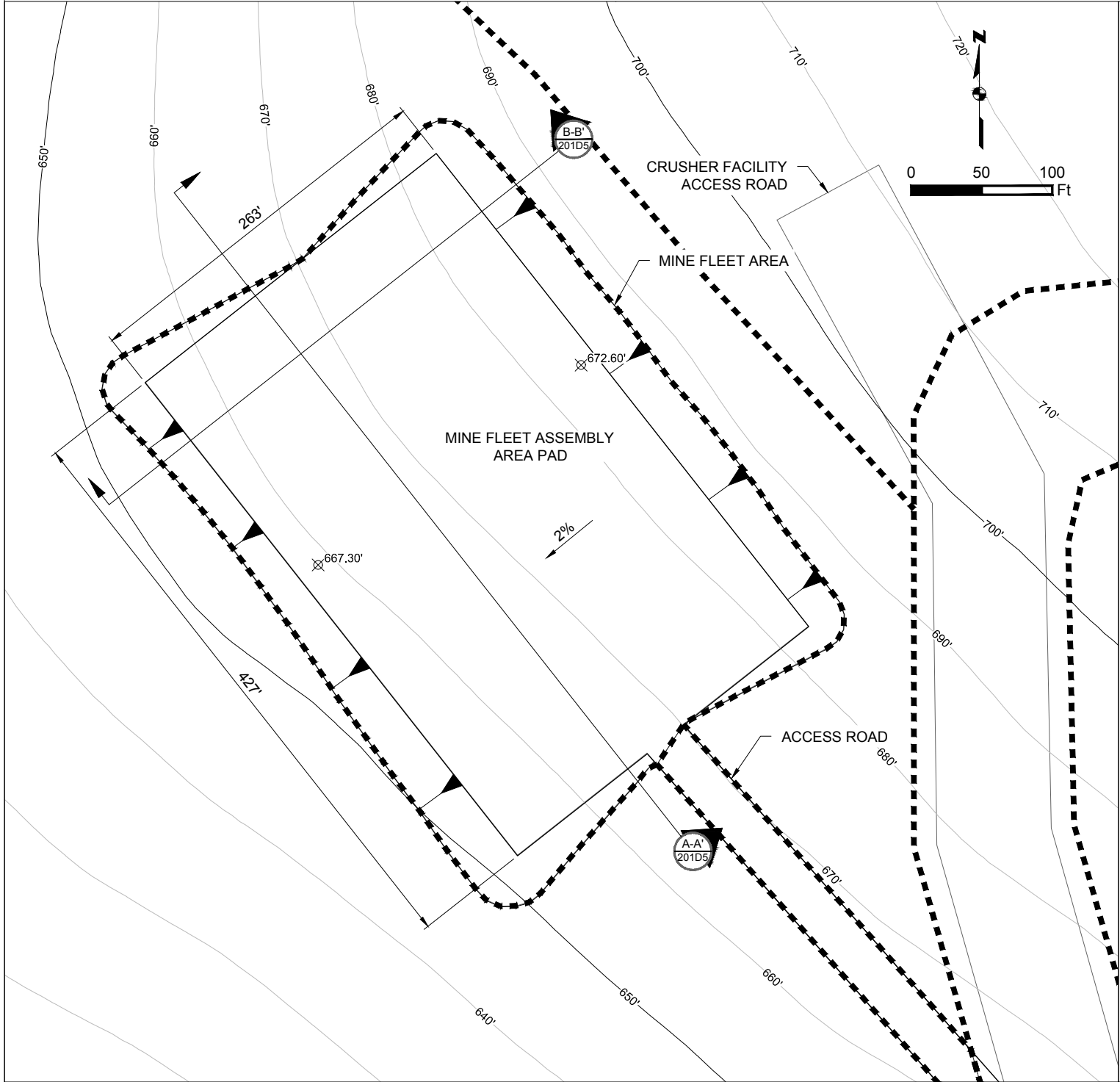


TERRACE BORROW SITE 3 - NORTH TSF OVERBURDEN STOCKPILE SECTION B-B'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'

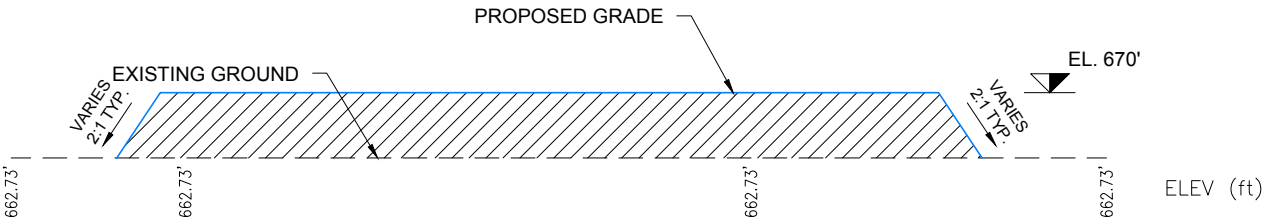
- | | | |
|-------------------------|-------------------|------------------------------|
| — Existing 10' Contours | ■ Cut Area | ■ Project Disturbance |
| — Existing 50' Contours | — Existing Ground | --- Borrow Excavation Limit* |
| | — Proposed Grade | |

NOTE:
* BORROW LIMIT SUBJECT TO CHANGE PENDING
FURTHER GEOTECHNICAL INVESTIGATION

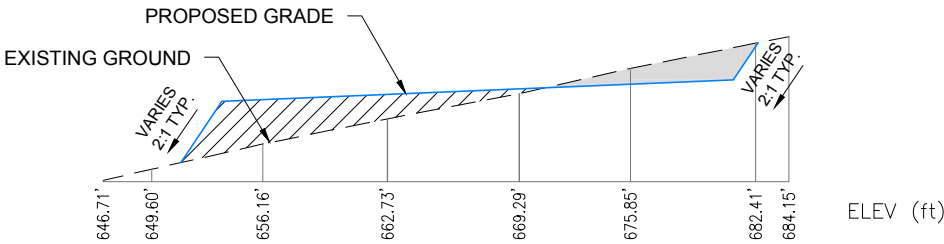
Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: TERRACE BORROW SITE 3 - NORTH TSF OVERBURDEN STOCKPILE DETAIL	
TERRACE_3-5.dwg (BGC) JUN 2012		NAD 1983 UTM Zone 4N		FIGURE NO. MA-201D4	
SCALE: AS SHOWN		DATE: 9/11/2015		FILE NO. POA-1995-120	



MINE FLEET ASSEMBLY AREA PLAN
SCALE 1" = 100'



MINE FLEET ASSEMBLY AREA SECTION A-A'
N.T.S.



MINE FLEET ASSEMBLY AREA SECTION A-A'
N.T.S.

- | | | |
|-------------------------|-------------------|---------------------|
| — Existing 10' Contours | Fill Area | Project Disturbance |
| — Existing 50' Contours | Cut Area | |
| | — Existing Ground | |
| | Proposed Grade | |

Associated Engineering Drawings
M12C-SP-AA_01.dwg (BAKER) SEP 2014

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

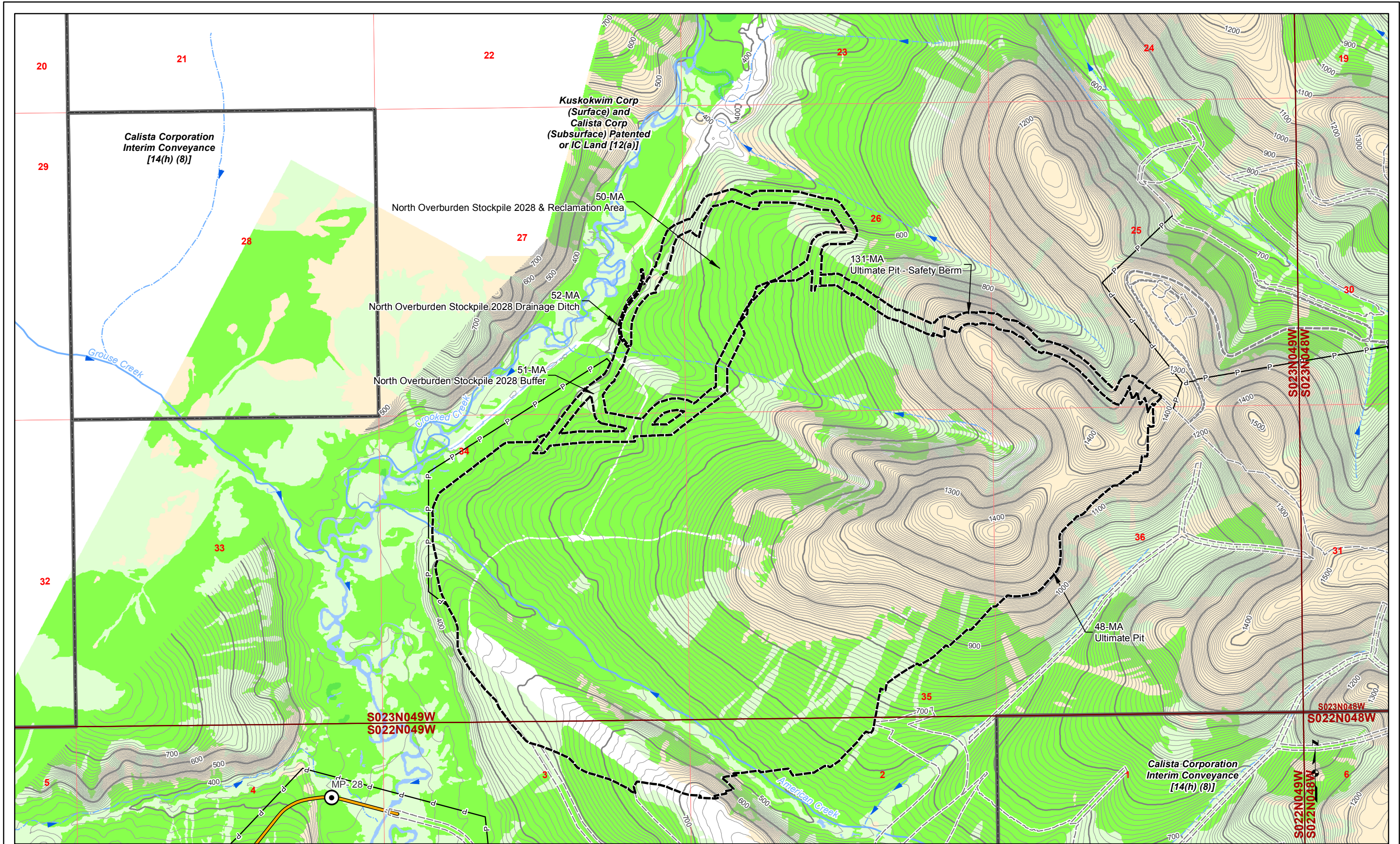
DRAWING TITLE:
**MINE FLEET ASSEMBLY
AREA DETAIL**

SCALE: AS SHOWN

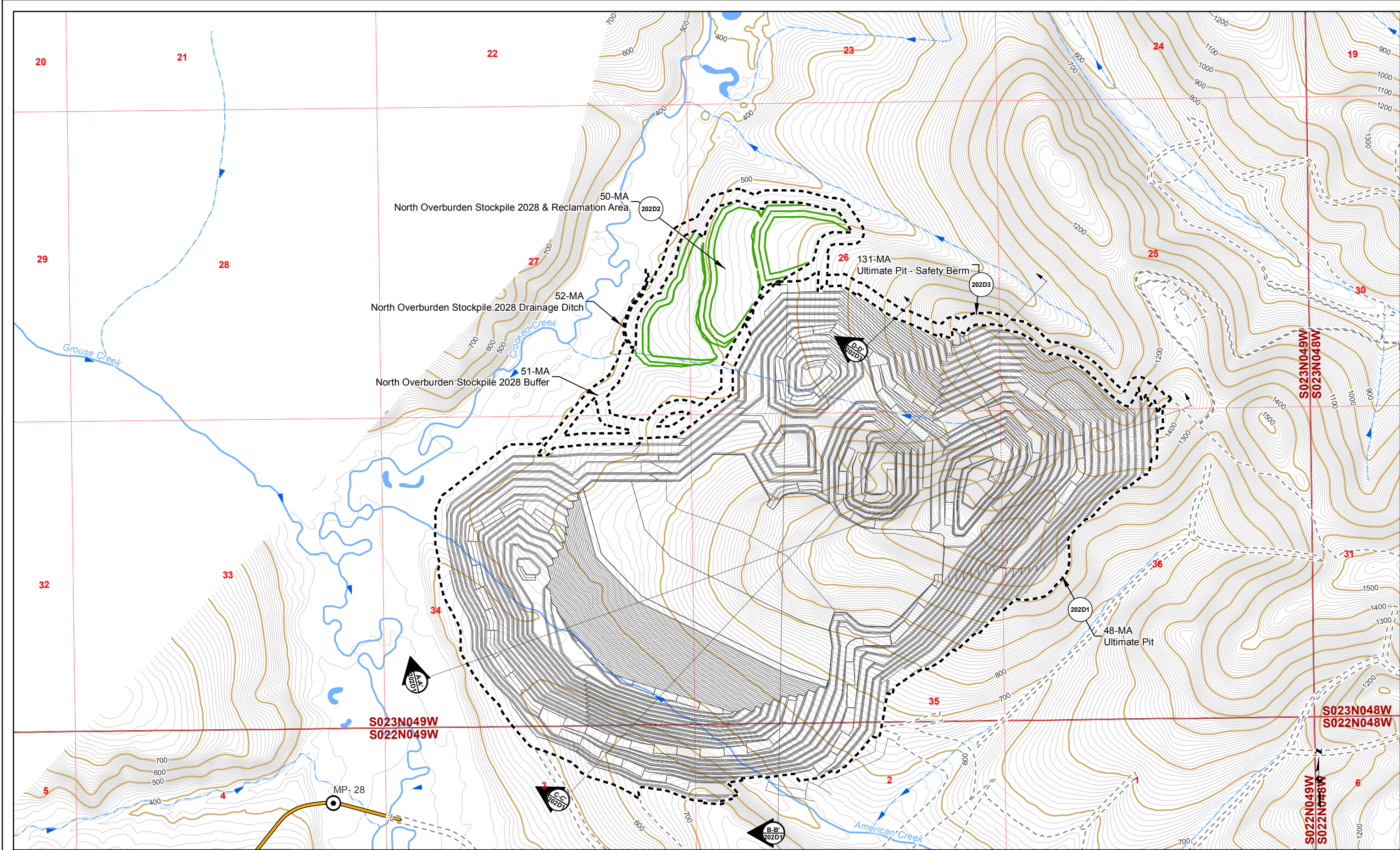
DATE: 9/30/2015

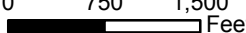
FIGURE NO.
MA-201D5

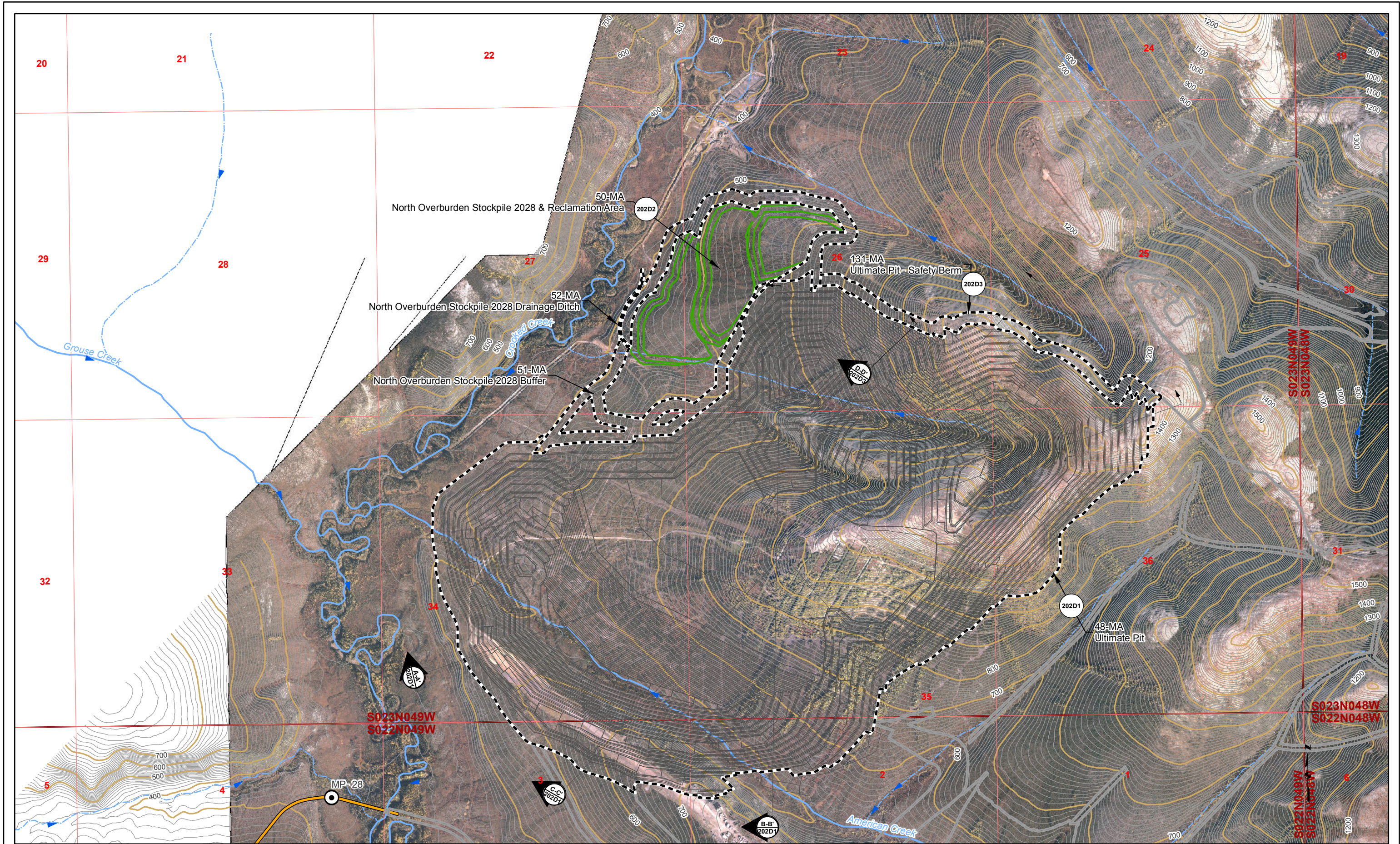
FILE NO.
POA-1995-120



Land Status Road Milepost Project Disturbance Limit Mosaic Upland Wetlands 100' Contour 10' Contour Powerline Stream Flow Direction Proposed Jungjuk Road Unnamed River/Stream Named River/Stream	Associated Engineering Drawings 07501,500 Feet	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,500 feet DATE: 10/5/2015	DRAWING TITLE: PLAN VIEW MINE AREA WETLANDS MAP FIGURE NO. MA-202A FILE NO. POA-1995-120
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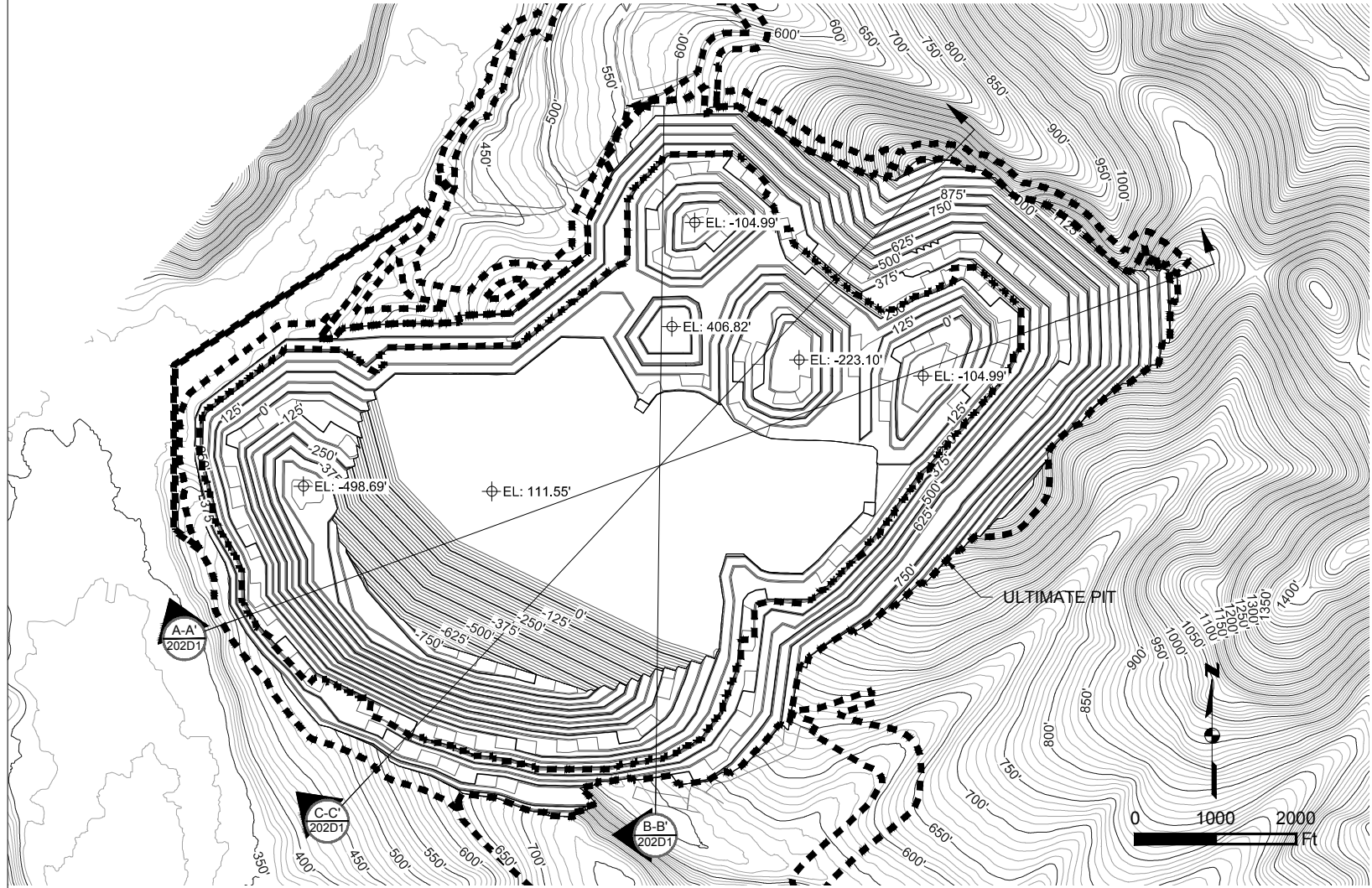
 Proposed Jungjuk Road	 10' Contour	 Cross Section	 Unnamed River/Stream	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP	
				 Road Milepost	 100' Contour	 Project Disturbance This Sheet	 Named River/Stream	 Proposed Disturbance (Other Sheets)	 Figure Detail Reference
 Stream Flow Direction				 0 750 1,500 Feet		SCALE: 1 inch = 1,500 feet		DATE: 10/5/2015	



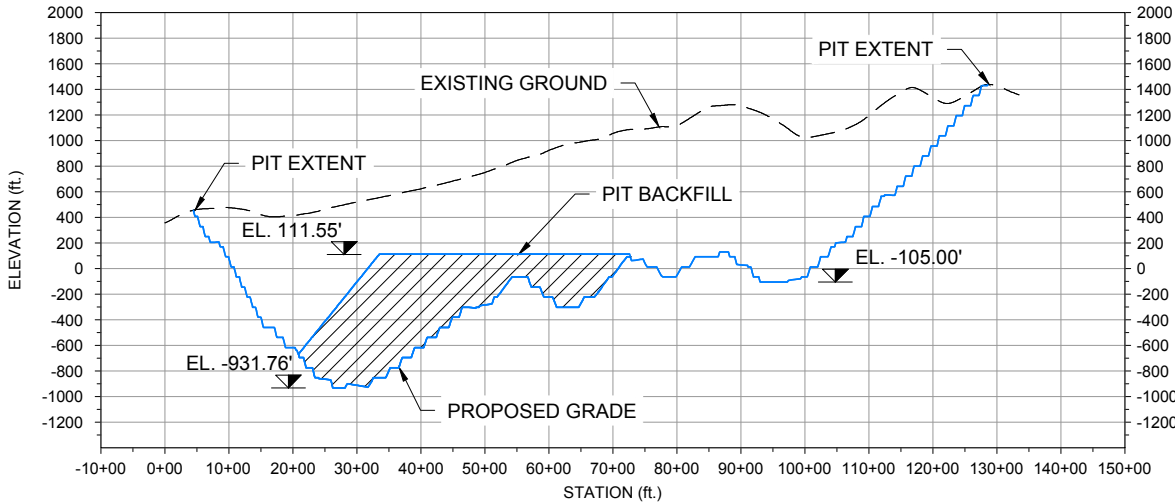
Proposed Jungjuk Road Road Milepost 10' Contour 100' Contour Stream Flow Direction Cross Section Project Disturbance This Sheet Proposed Disturbance (Other Sheets) Figure Detail Reference Unnamed River/Stream Named River/Stream	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N		DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP	
	0 750 1,500 Feet		SCALE: 1 inch = 1,500 feet		DATE: 10/5/2015	

FILE NO. POA-1995-120

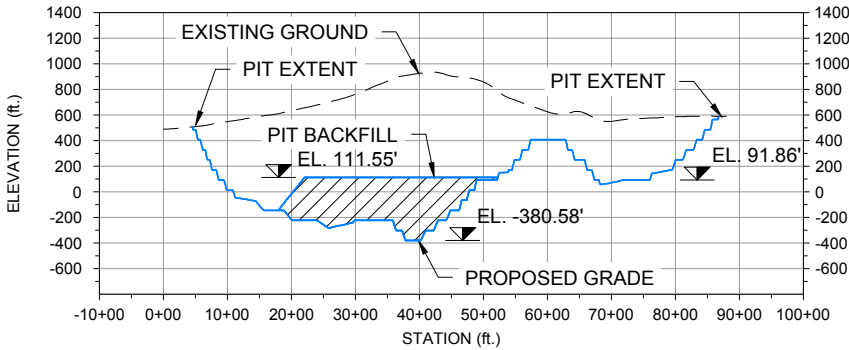
FIGURE NO. MA-202C



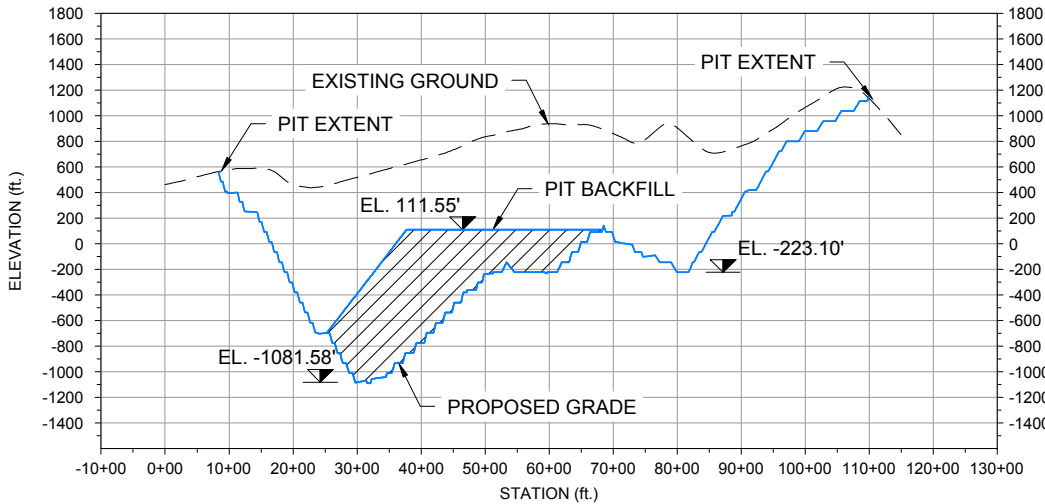
ULTIMATE PIT PLAN
SCALE 1" = 2000'



A-A' ULTIMATE PIT SECTION A-A'
HORIZONTAL SCALE 1" = 3000'
VERTICAL SCALE 1" = 1500'



B-B' ULTIMATE PIT SECTION B-B'
HORIZONTAL SCALE 1" = 3000'
VERTICAL SCALE 1" = 1500'



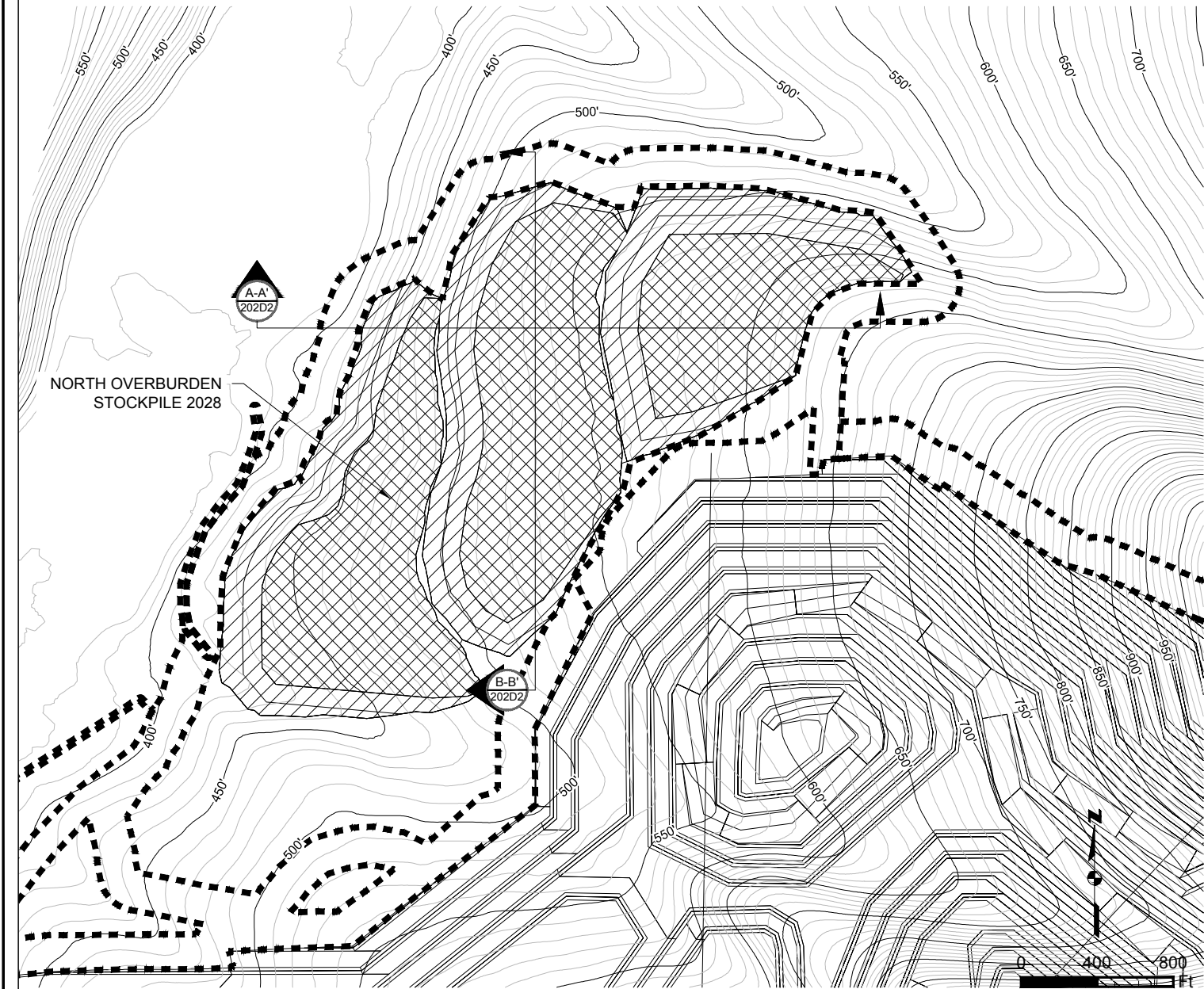
C-C' ULTIMATE PIT SECTION C-C'
HORIZONTAL SCALE 1" = 3000'
VERTICAL SCALE 1" = 1500'

Existing 10' Contours	Fill Area	Project Disturbance
Existing 50' Contours	Cut Area	
Proposed 10' Contours	Existing Ground	
Proposed 50' Contours	Proposed Grade	

Associated Engineering Drawings
EOP_2036SP_6ft_Project.shp (ARCADIS) JUN 2012

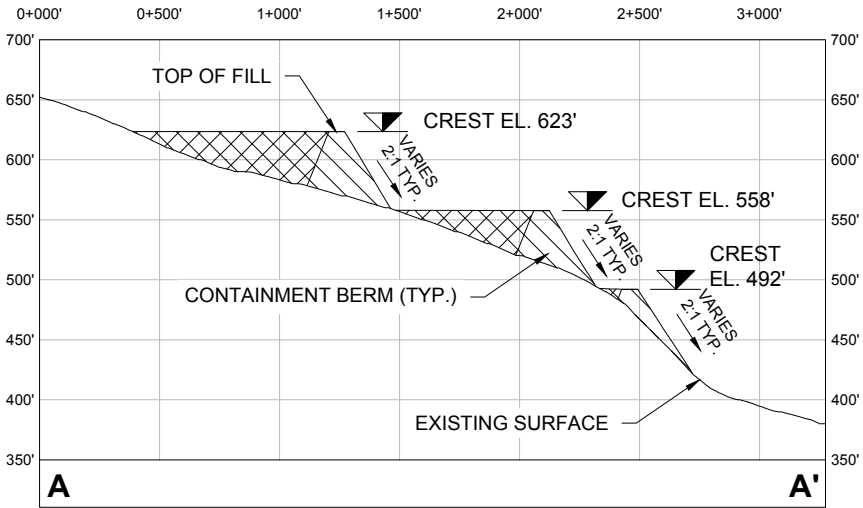
DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN
DATE: 9/11/2015

DRAWING TITLE:
ULTIMATE PIT DETAIL
FIGURE NO.
MA-202D1
FILE NO.
POA-1995-120

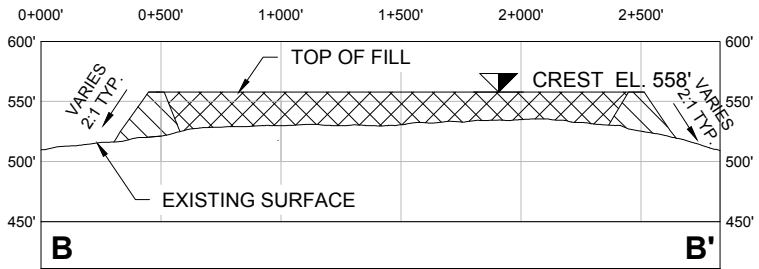


NORTH OVERBURDEN STOCKPILE 2028 PLAN
SCALE 1" = 800'

NOTE:
DRAINAGE AND EROSION CONTROLS
WILL BE DEVELOPED WITHIN THE
DISTURBANCE FOOTPRINT.



A-A'
NORTH OVERBURDEN STOCKPILE 2028 SECTION A-A'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'



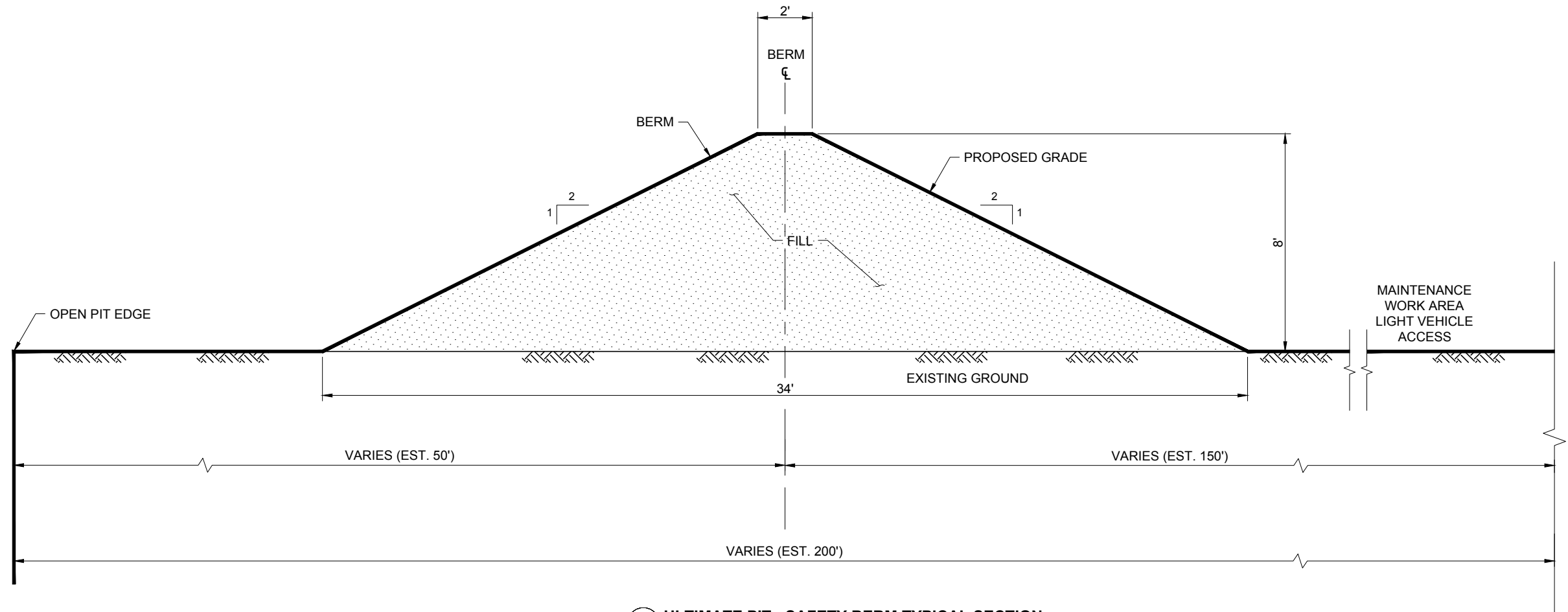
B-B'
NORTH OVERBURDEN STOCKPILE 2028 SECTION B-B'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'

- | | | | |
|--|-----------------------|--|--------------------|
| | Existing 10' Contours | | Berm Fill |
| | Existing 50' Contours | | Overburden Storage |
| | Project Disturbance | | |

Associated Engineering Drawings
NOB_STOCKPILE.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN
DATE: 9/4/2015

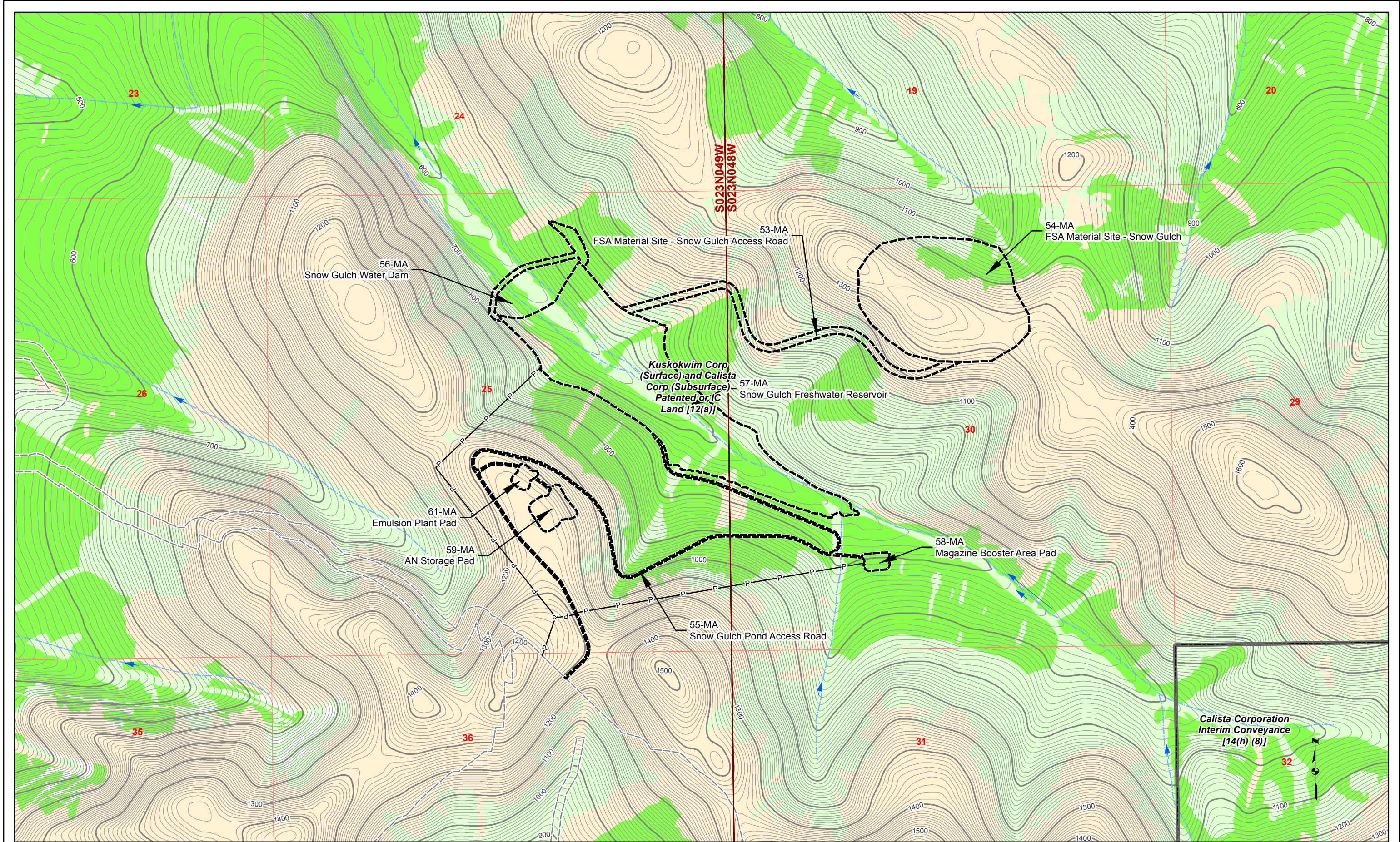
DRAWING TITLE:
**NORTH OVERBURDEN
STOCKPILE 2028 DETAIL**
FIGURE NO. **MA-202D2**
FILE NO. **POA-1995-120**



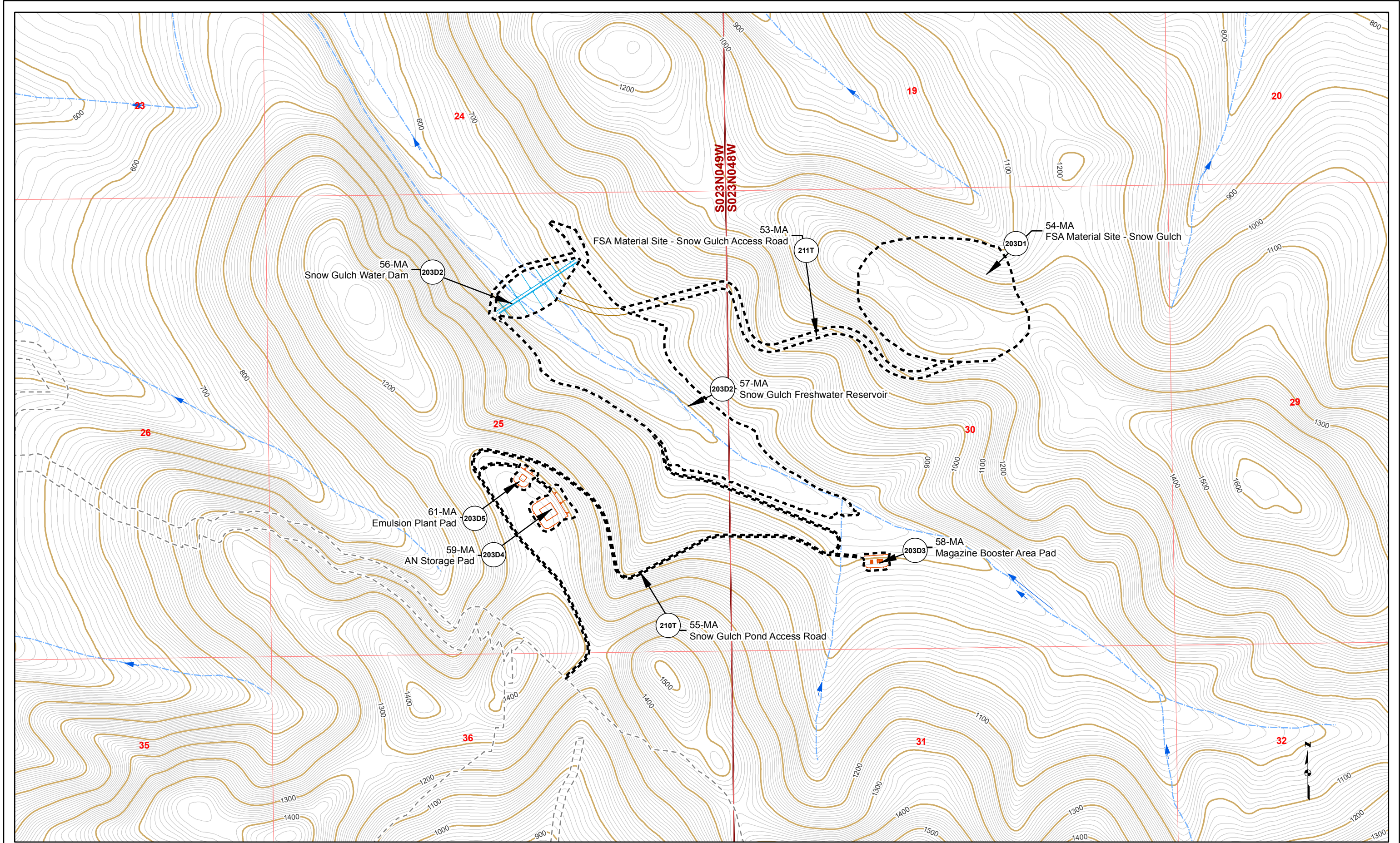
ULTIMATE PIT - SAFETY BERM TYPICAL SECTION
N.T.S.

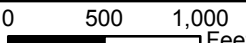
NOTES:
1. ALL EXISTING ELEVATIONS ARE IN FEET UNLESS NOTED OTHERWISE.
2. ALL PROPOSED ELEVATIONS AND DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.

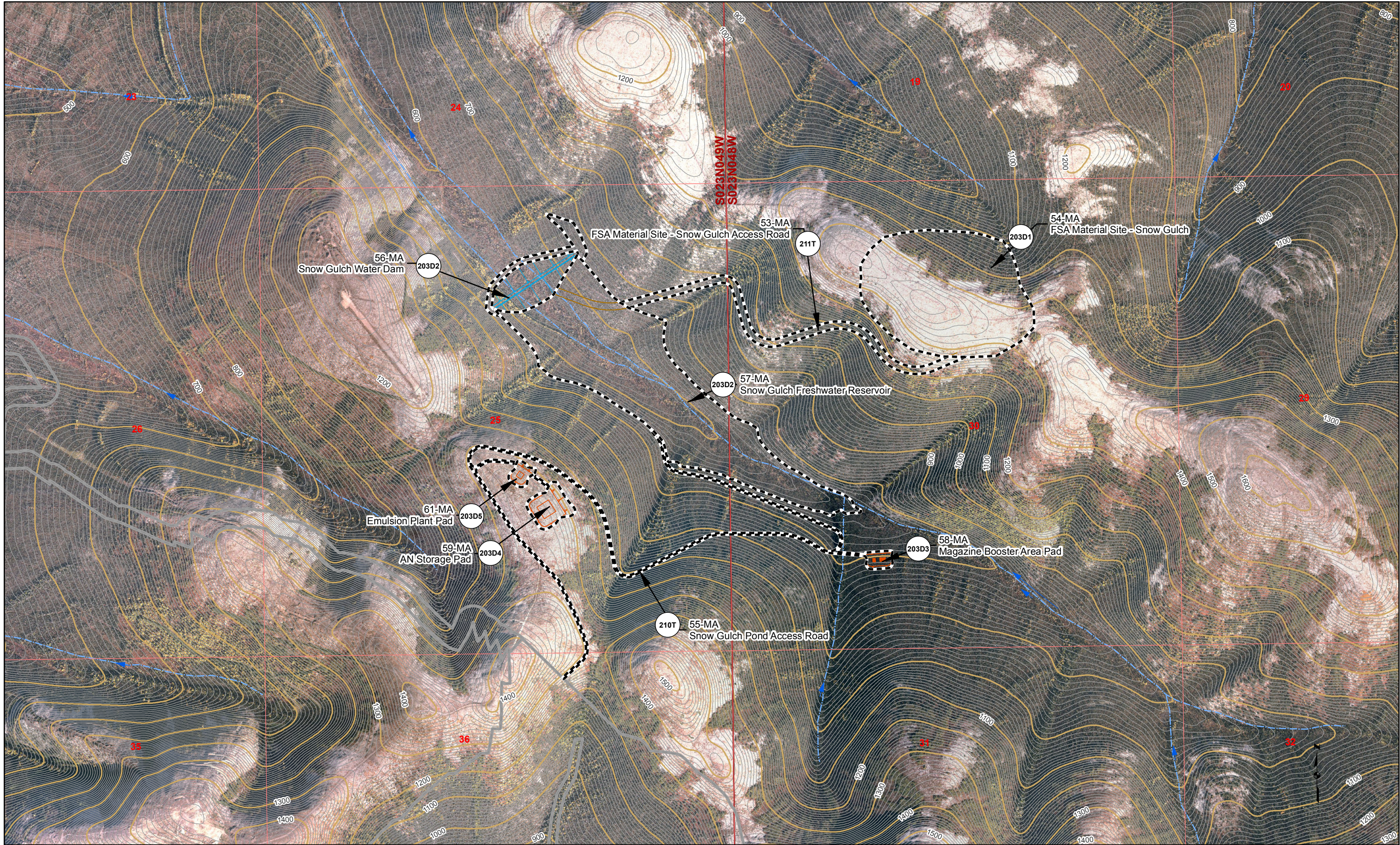
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	M01C-SC-BE_01.dwg (BAKER) OCT 2014		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		ULTIMATE PIT - SAFETY BERM DETAIL	
	SCALE: AS SHOWN		DATE: 9/30/2015		FIGURE NO. MA-202D3	FILE NO. POA-1995-120



Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW MINE AREA WETLANDS MAP	
0 750 1,500 Feet		NAD 1983 UTM Zone 4N		FIGURE NO. MA-203A	
SCALE: 1 inch = 1,000 feet		DATE: 10/5/2015		FILE NO. POA-1995-120	



 Proposed Jungjuk Road  Road Milepost	 10' Contour  100' Contour  Stream Flow Direction	 Cross Section  Project Disturbance This Sheet  Proposed Disturbance (Other Sheets)	 Unnamed River/Stream  Named River/Stream  Figure Detail Reference	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP	
						NAD 1983 UTM Zone 4N		FIGURE NO. MA-203B	FILE NO. POA-1995-120
				SCALE: 1 inch = 1,000 feet		DATE: 10/5/2015			



- | | | | |
|-----------------------|-------------------------------------|--------------------------------|----------------------|
| Proposed Jungjuk Road | 10' Contour | Cross Section | Unnamed River/Stream |
| Road Milepost | 100' Contour | Project Disturbance This Sheet | Named River/Stream |
| Stream Flow Direction | Proposed Disturbance (Other Sheets) | Figure Detail Reference | |

Associated Engineering Drawings

0 500 1,000
Feet

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

NAD 1983 UTM Zone 4N

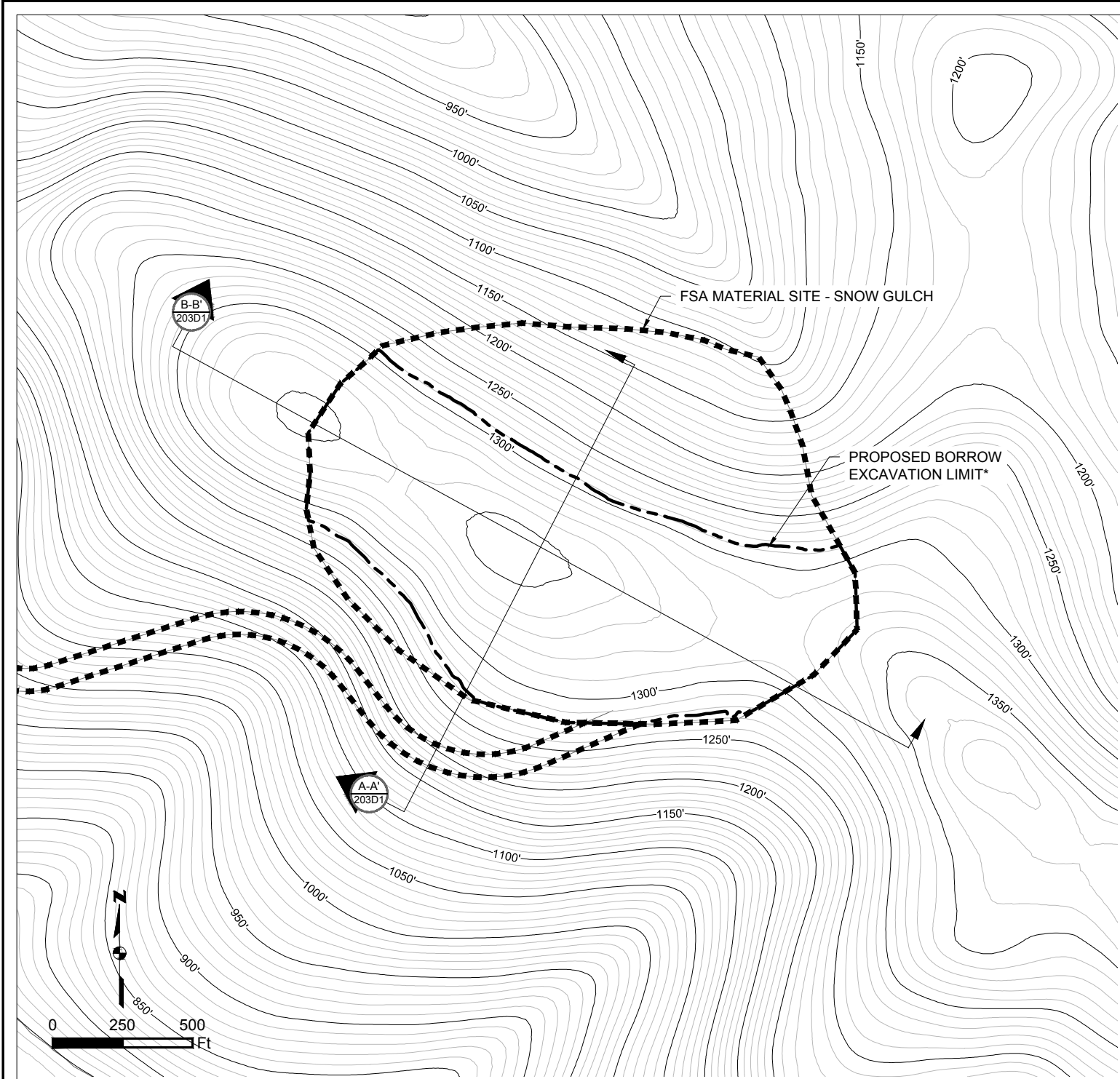
SCALE: 1 inch = 1,000 feet

DATE: 10/5/2015

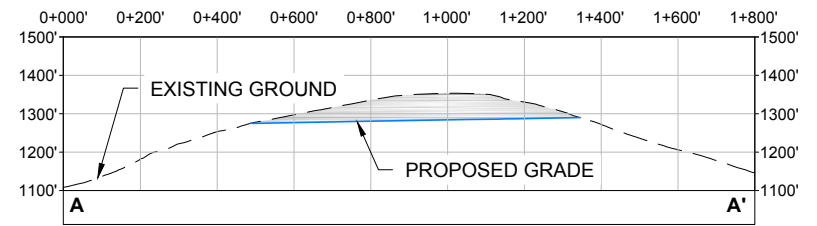
DRAWING TITLE: **PLAN VIEW
MINE AREA
ENGINEERING MAP**

FIGURE NO. **MA-203C**

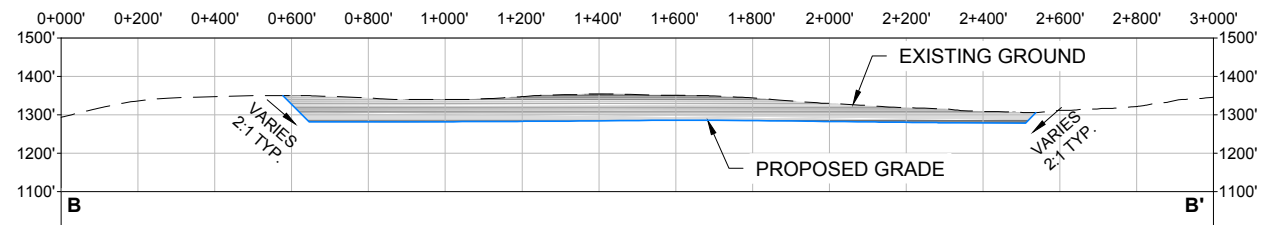
FILE NO. **POA-1995-120**



FSA MATERIAL SITE - SNOW GULCH PLAN
SCALE 1" = 500'



FSA MATERIAL SITE - SNOW GULCH SECTION A-A'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'

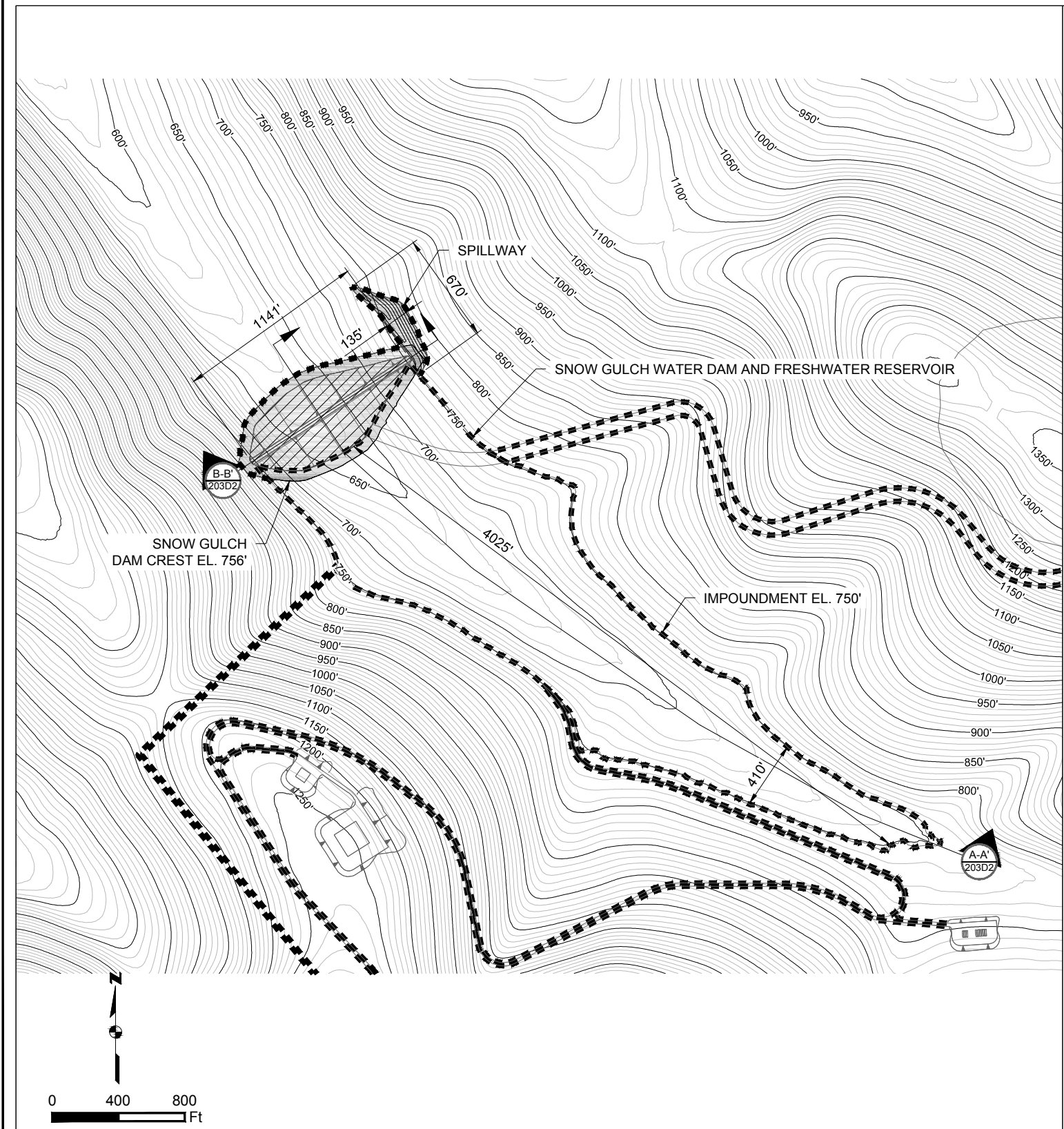


FSA MATERIAL SITE - SNOW GULCH SECTION B-B'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'

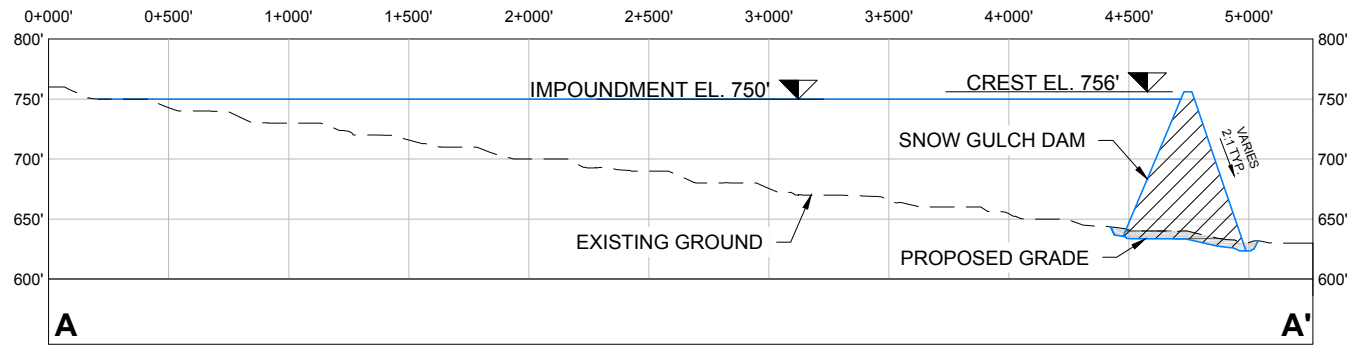
Existing 10' Contours	Fill Area	Project Disturbance
Existing 50' Contours	Cut Area	Borrow Excavation Limit*
	Existing Ground	
	Proposed Grade	

NOTE:
* BORROW LIMIT SUBJECT TO CHANGE PENDING FURTHER GEOTECHNICAL INVESTIGATION

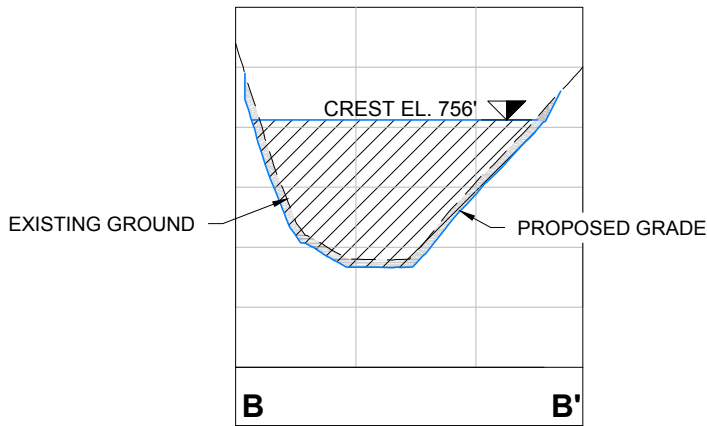
Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
SNOW_GULCH_FRESHWATER_DAM_QUARRY.dwg (BGC) JUN 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		FSA MATERIAL SITE - SNOW GULCH DETAIL	
		NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
SCALE: AS SHOWN		DATE: 9/28/2015		MA-203D1	POA-1995-120



SNOW GULCH WATER DAM AND FRESHWATER RESERVOIR PLAN
SCALE 1" = 800'



SNOW GULCH WATER DAM AND FRESHWATER RESERVOIR SECTION A-A'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'



SNOW GULCH WATER DAM AND FRESHWATER RESERVOIR SECTION B-B'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'

- | | | |
|-----------------------|-----------------|---------------------|
| Existing 10' Contours | Fill Area | Project Disturbance |
| Existing 50' Contours | Cut Area | |
| | Existing Ground | |
| | Proposed Grade | |

Associated Engineering Drawings
SNOW_GULCH_DAM.dwg (BGC) JUNE 2012

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

NAD 1983 UTM Zone 4N

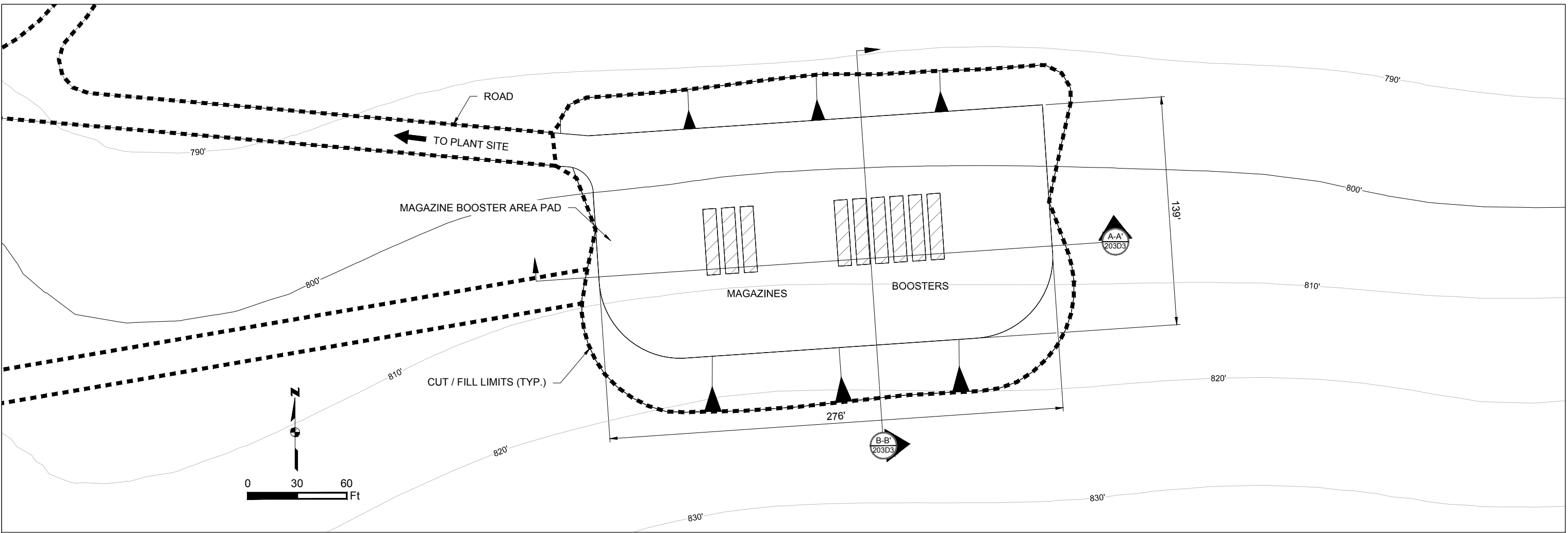
SCALE: AS SHOWN

DATE: 9/28/2015

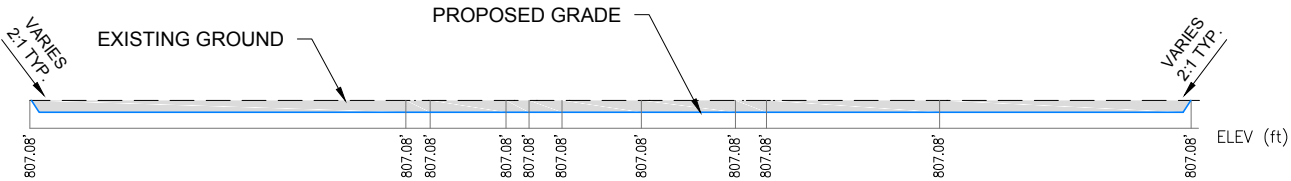
DRAWING TITLE:
**SNOW GULCH WATER DAM AND
FRESHWATER RESERVOIR DETAIL**

FIGURE NO.
MA-203D2

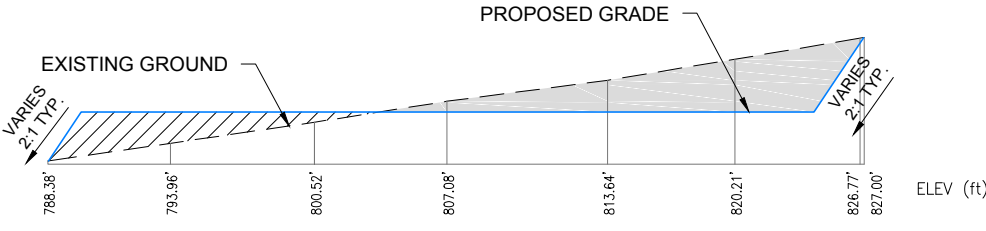
FILE NO.
POA-1995-120



MAGAZINE BOOSTER AREA PAD PLAN
SCALE 1" = 60'



MAGAZINE BOOSTER AREA PAD SECTION A-A'
N.T.S.



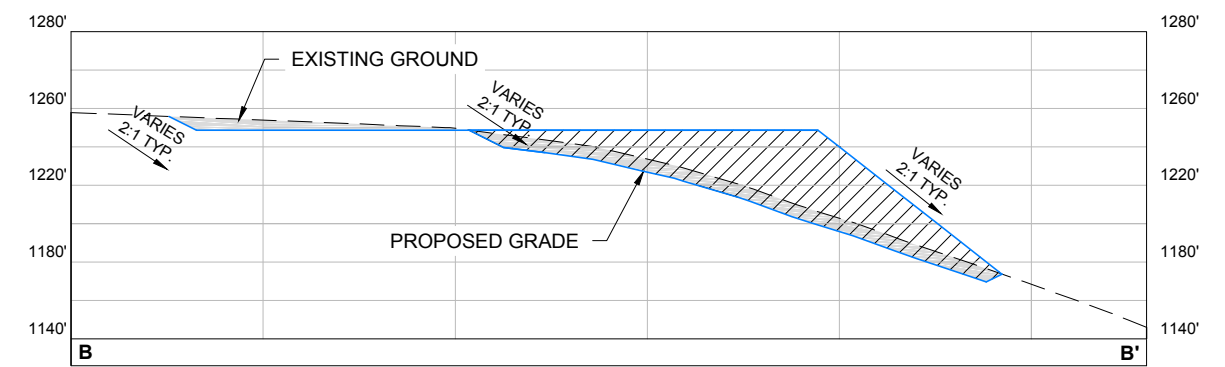
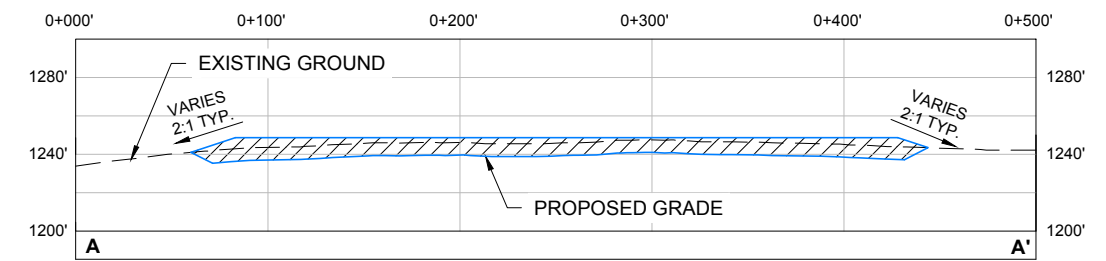
MAGAZINE BOOSTER AREA PAD SECTION B-B'
N.T.S.

- | | | |
|-------------------------|-------------------|---------------------|
| — Existing 10' Contours | Fill Area | Project Disturbance |
| — Existing 50' Contours | Cut Area | |
| | — Existing Ground | |
| | Proposed Grade | |

Associated Engineering Drawings
M12C-SP-BS_01.dwg (BAKER) SEP 2014

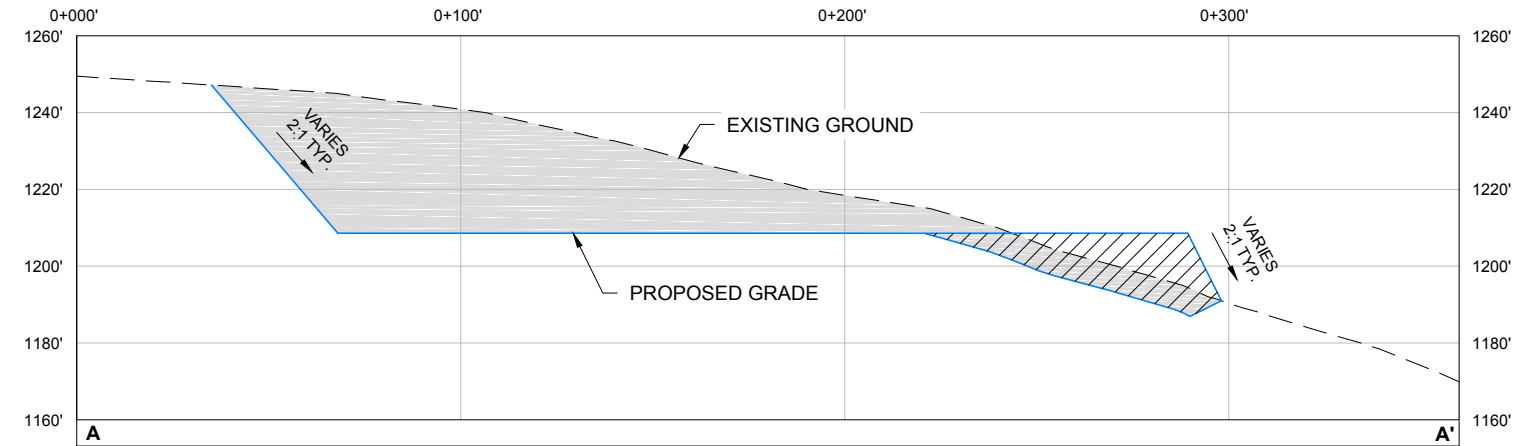
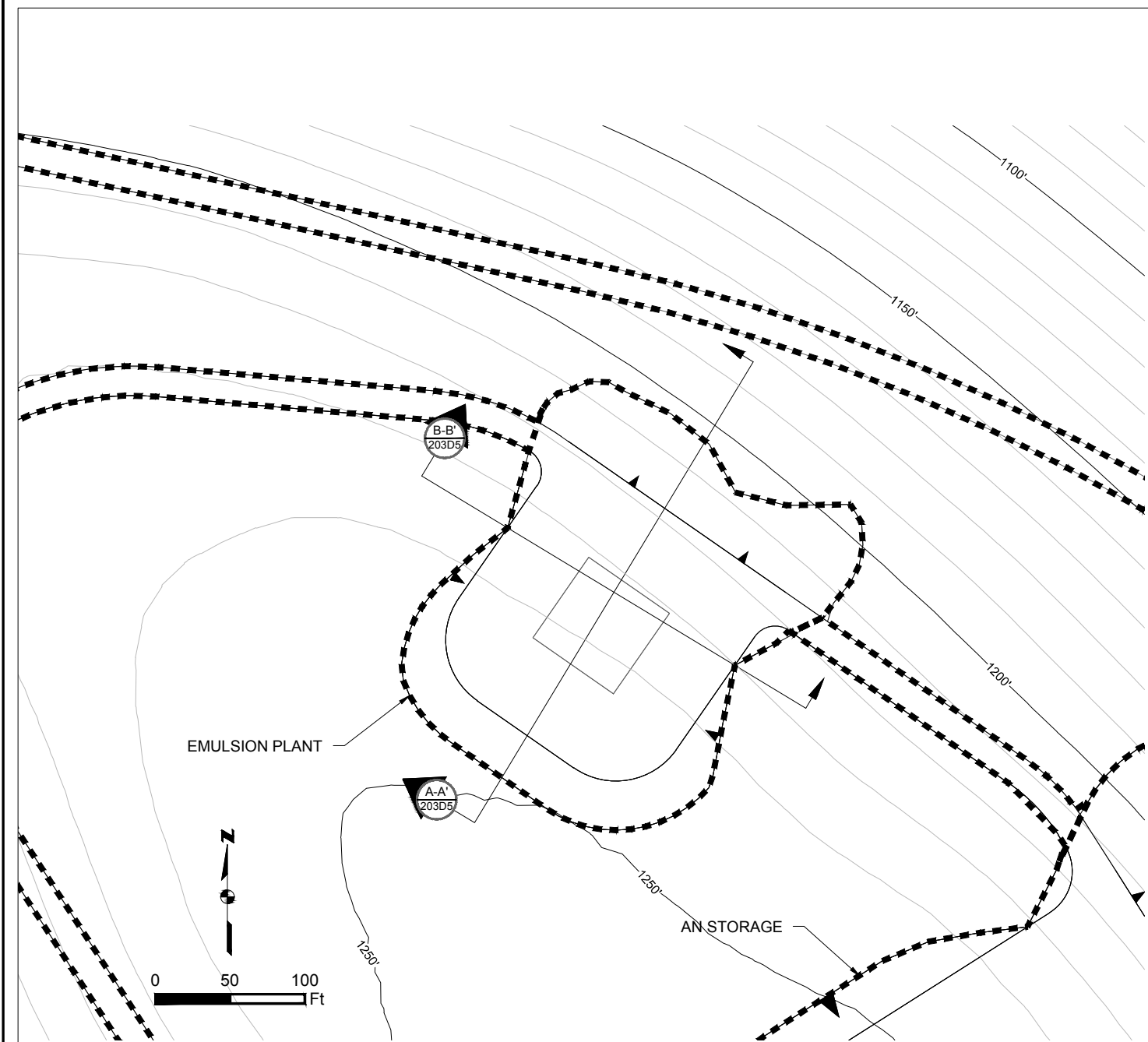
DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN
DATE: 9/11/2015

DRAWING TITLE:
**MAGAZINE BOOSTER AREA PAD
DETAIL**
FIGURE NO.:
MA-203D3
FILE NO.:
POA-1995-120

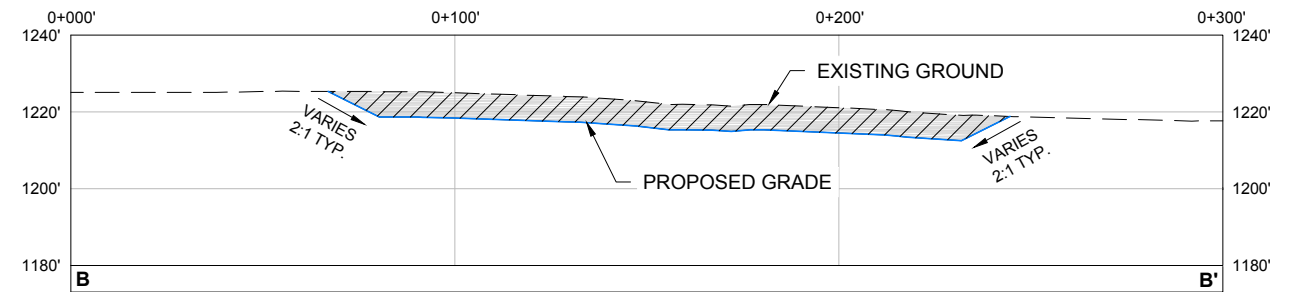


Existing 10' Contours		Fill Area		Project Disturbance	
Existing 50' Contours		Cut Area			
		Existing Ground			
		Proposed Grade			

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
AN_STORAGE.dwg (BGC) JUNE 2012		APPLICANT: Donlin Gold, LLC		AN STORAGE PAD	
		4720 Business Park Blvd., Suite G-25		DETAIL	
		Anchorage, Alaska 99503			
		NAD 1983 UTM Zone 4N			
SCALE: AS SHOWN		DATE: 9/30/2015		FIGURE NO. MA-203D4	
				FILE NO. POA-1995-120	



EMULSION PLANT PAD SECTION A-A'
HORIZONTAL SCALE 1" = 50'
VERTICAL SCALE 1" = 10'



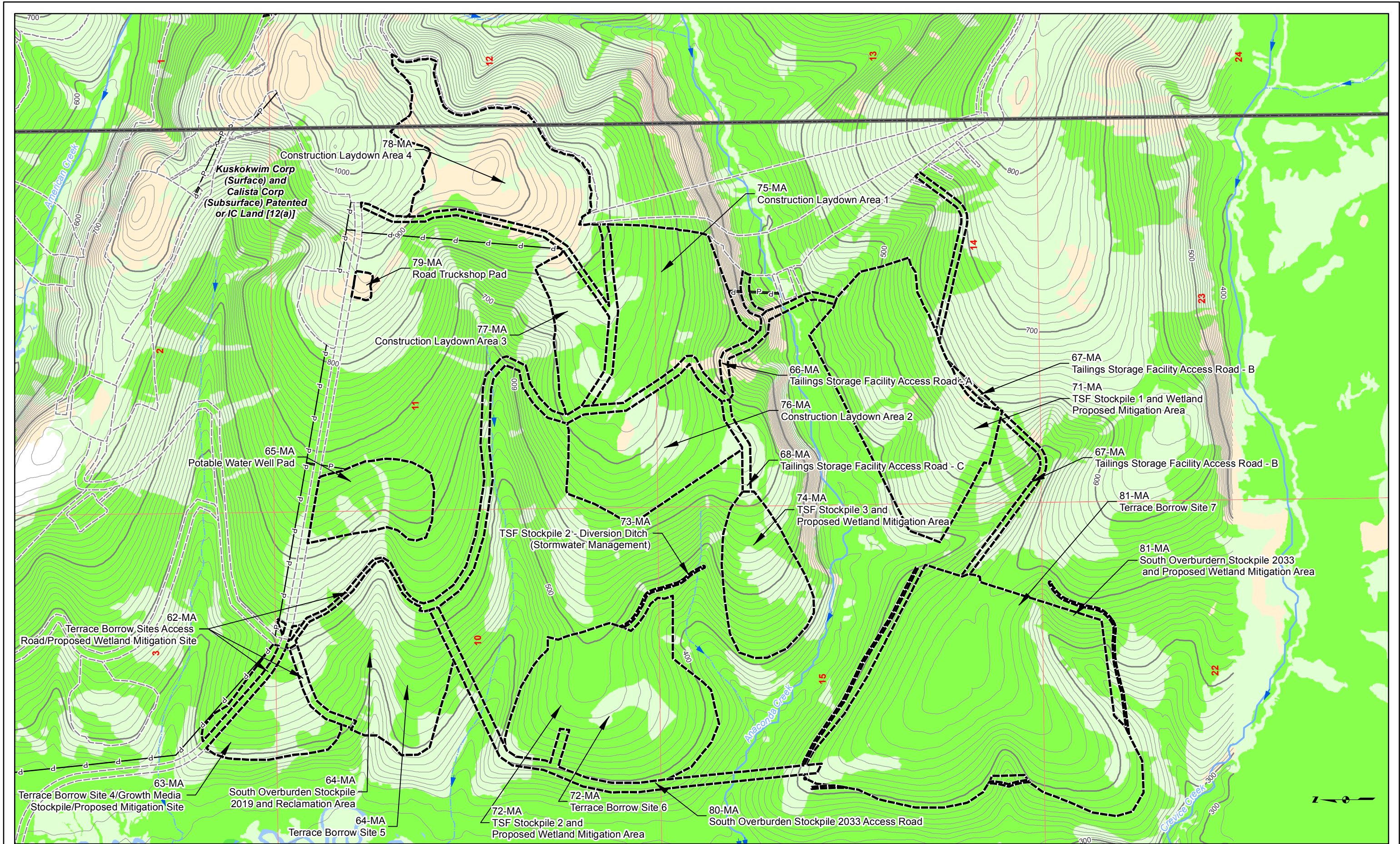
EMULSION PLANT PAD SECTION B-B'
HORIZONTAL SCALE 1" = 50'
VERTICAL SCALE 1" = 10'

Existing 10' Contours
Existing 50' Contours
Fill Area
Cut Area
Existing Ground
Proposed Grade
Project Disturbance

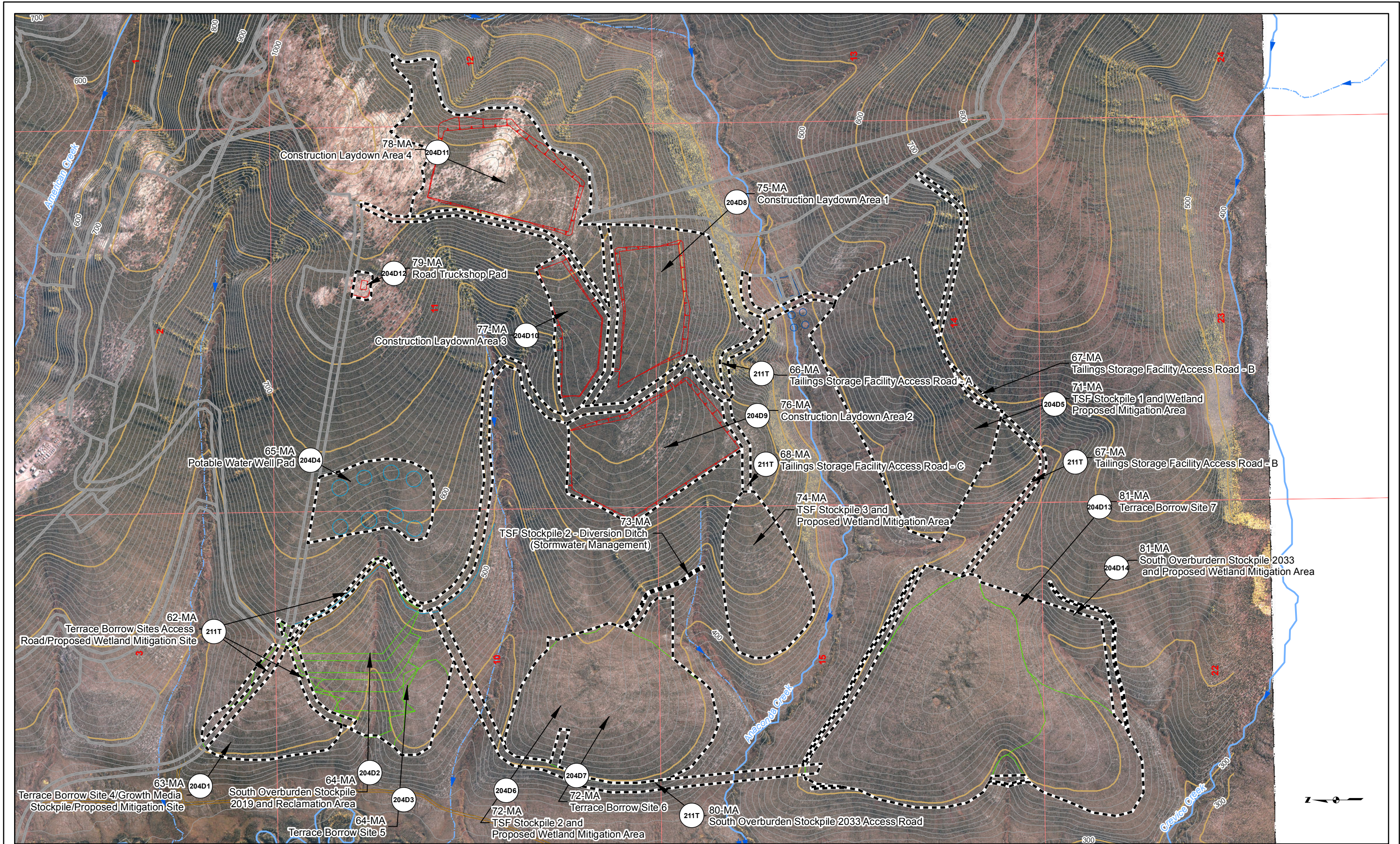
Associated Engineering Drawings
EMULSION_PLANT.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN
DATE: 9/30/2015

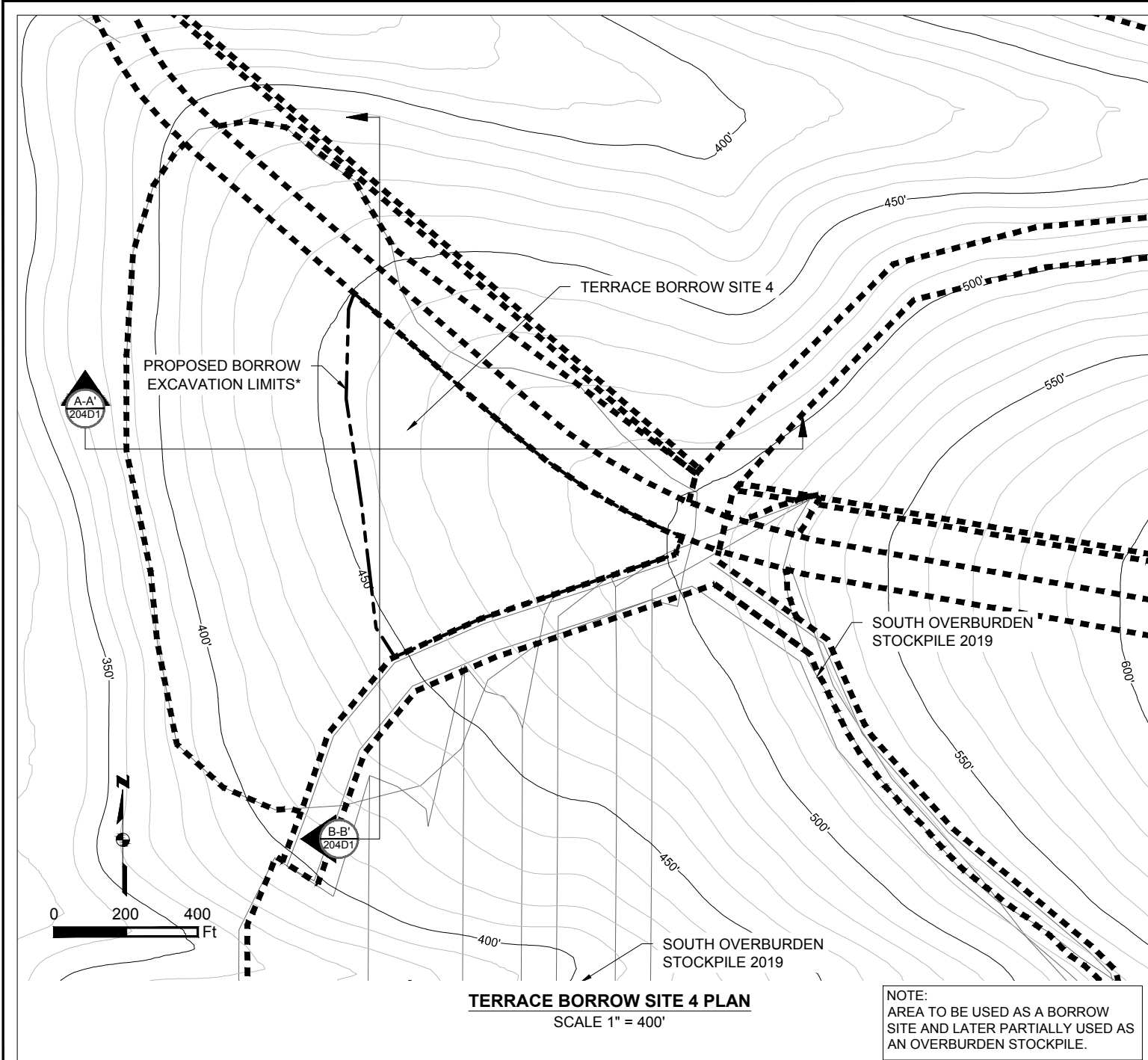
DRAWING TITLE:
EMULSION PLANT PAD DETAIL
FIGURE NO.: **MA-203D5**
FILE NO.: **POA-1995-120**



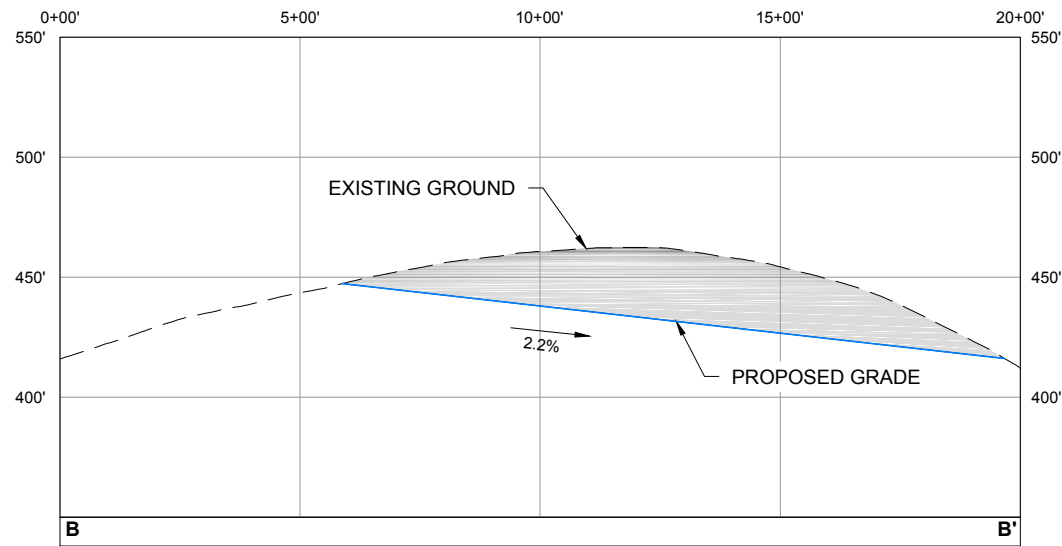
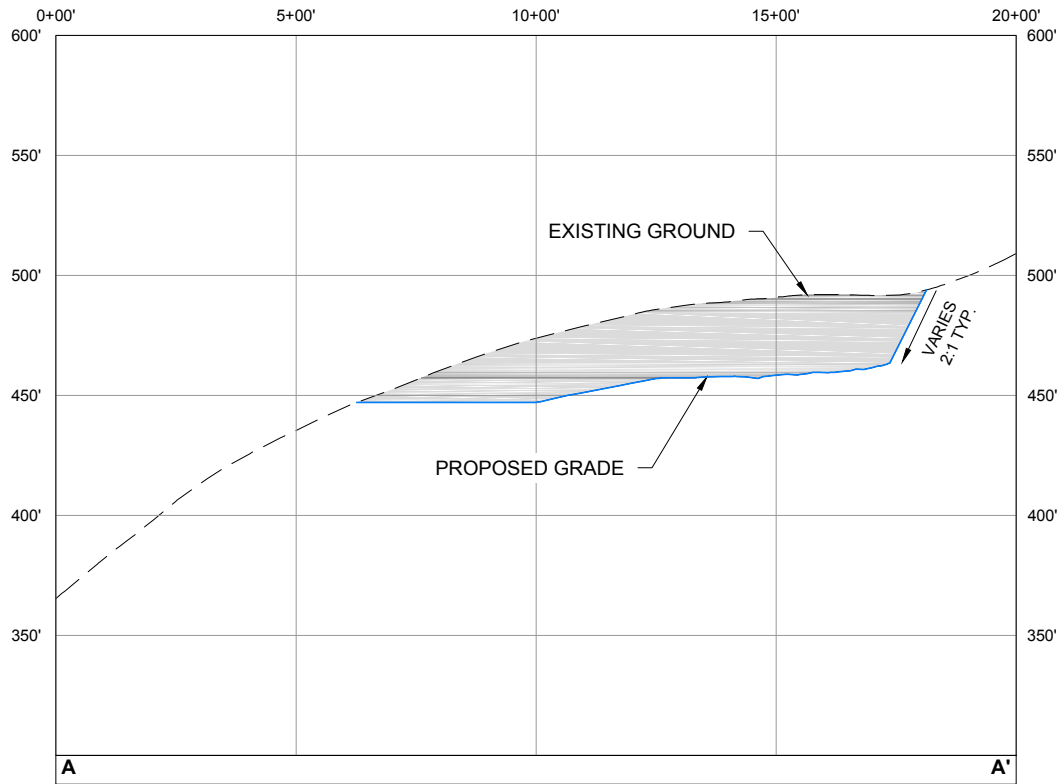
Land Status Road Milepost Project Disturbance Limit	Mosaic Upland Wetlands	100' Contour 10' Contour Powerline Stream Flow Direction	Proposed Jungjuk Road Unnamed River/Stream Named River/Stream	Associated Engineering Drawings 0 600 1,200 Feet	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,200 feet DATE: 10/5/2015	DRAWING TITLE: PLAN VIEW MINE AREA WETLANDS MAP FIGURE NO. MA-204A FILE NO. POA-1995-120
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Proposed Jungjuk Road 10' Contour 100' Contour Stream Flow Direction Road Milepost Cross Section Project Disturbance This Sheet Proposed Disturbance (Other Sheets) Unnamed River/Stream Named River/Stream Figure Detail Reference	Associated Engineering Drawings 0 600 1,200 Feet	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,200 feet DATE: 10/5/2015	DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP FIGURE NO. MA-204C FILE NO. POA-1995-120



NOTE:
AREA TO BE USED AS A BORROW
SITE AND LATER PARTIALLY USED AS
AN OVERBURDEN STOCKPILE.



- | | | |
|-----------------------|-----------------|--------------------------|
| Existing 10' Contours | Fill Area | Project Disturbance |
| Existing 50' Contours | Cut Area | Borrow Excavation Limit* |
| | Existing Ground | |
| | Proposed Grade | |

NOTE:
* BORROW LIMIT SUBJECT TO CHANGE PENDING
FURTHER GEOTECHNICAL INVESTIGATION

Associated Engineering Drawings

TERRACE_3-5.dwg (BGC) JUN 2012

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

NAD 1983 UTM Zone 4N

SCALE: AS SHOWN

DATE: 9/28/2015

DRAWING TITLE:

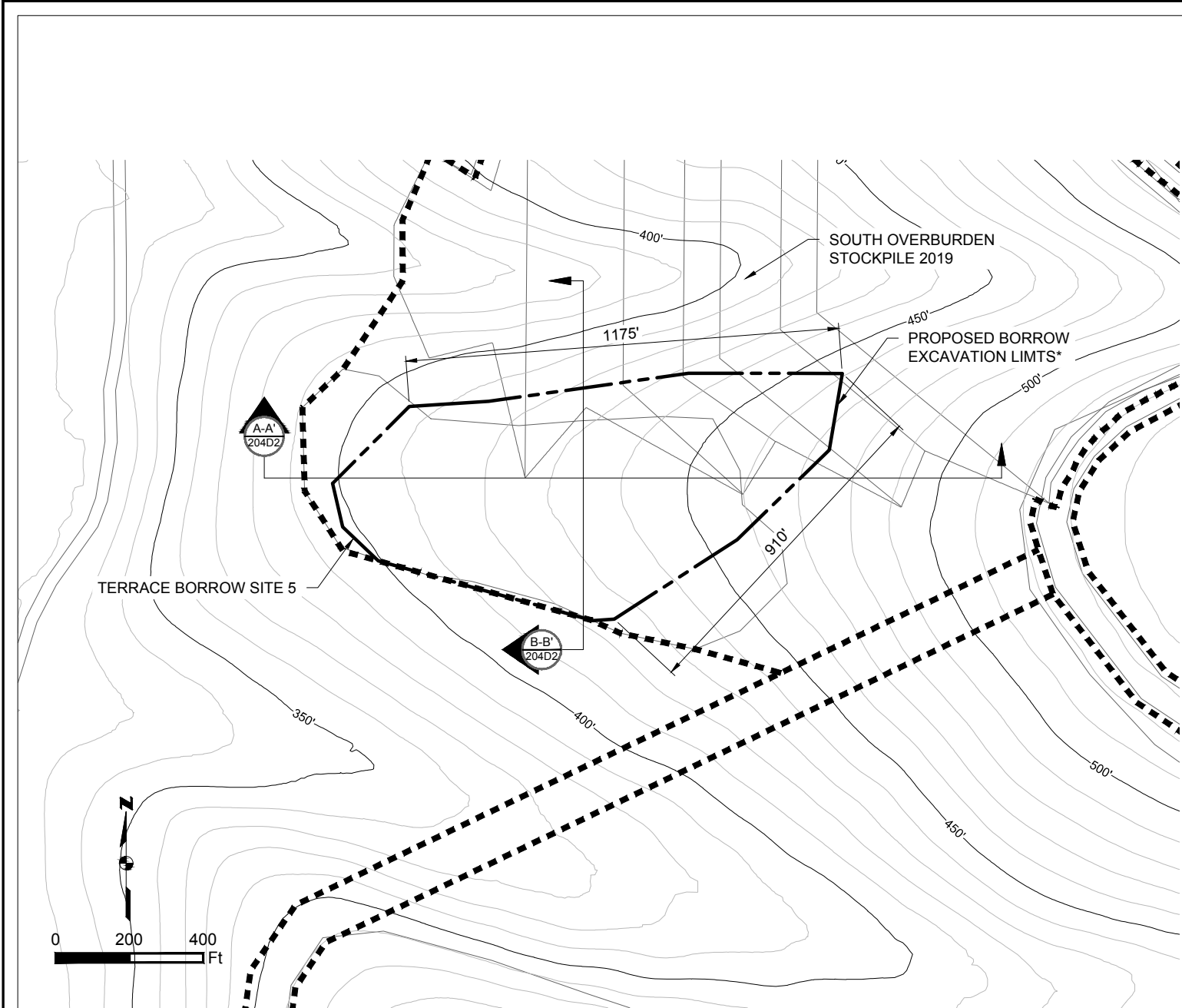
**TERRACE BORROW SITE 4
DETAIL**

FIGURE NO.

MA-204D1

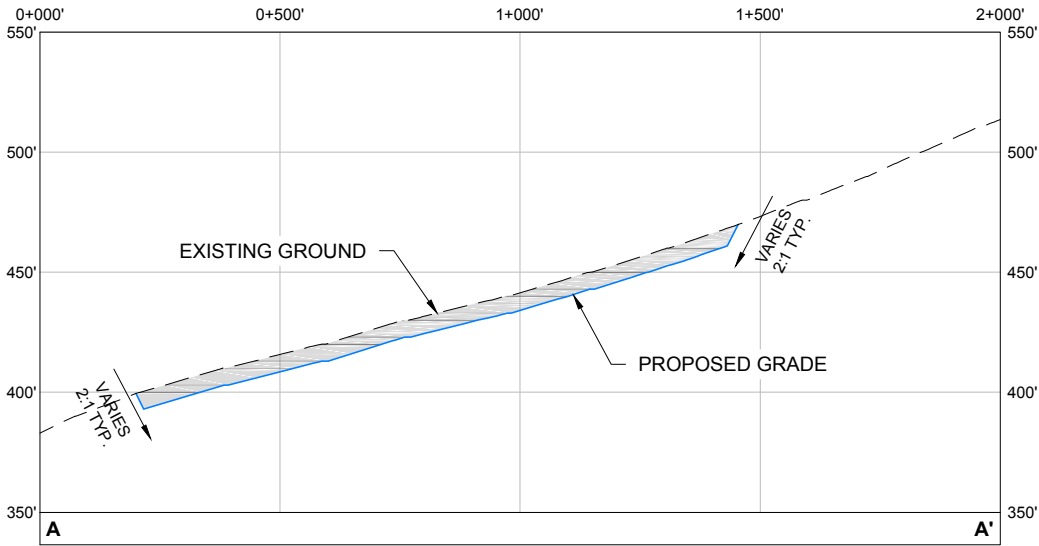
FILE NO.

POA-1995-120

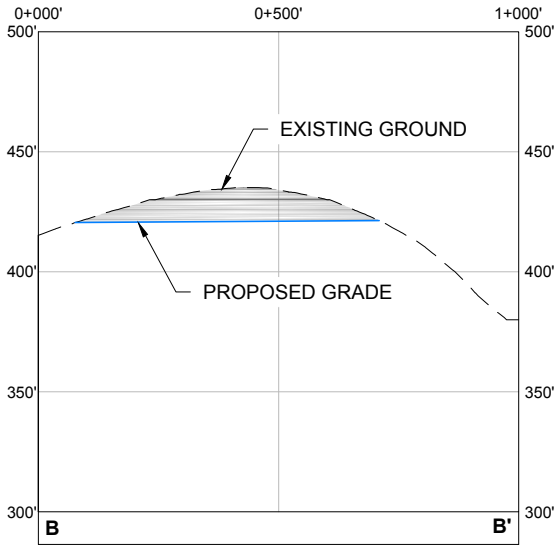


TERRACE BORROW SITE 5 PLAN
SCALE 1" = 400'

NOTE:
AREA TO BE USED AS A BORROW
SITE AND LATER PARTIALLY USED AS
AN OVERBURDEN STOCKPILE.



TERRACE BORROW SITE 5 SECTION A-A'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'

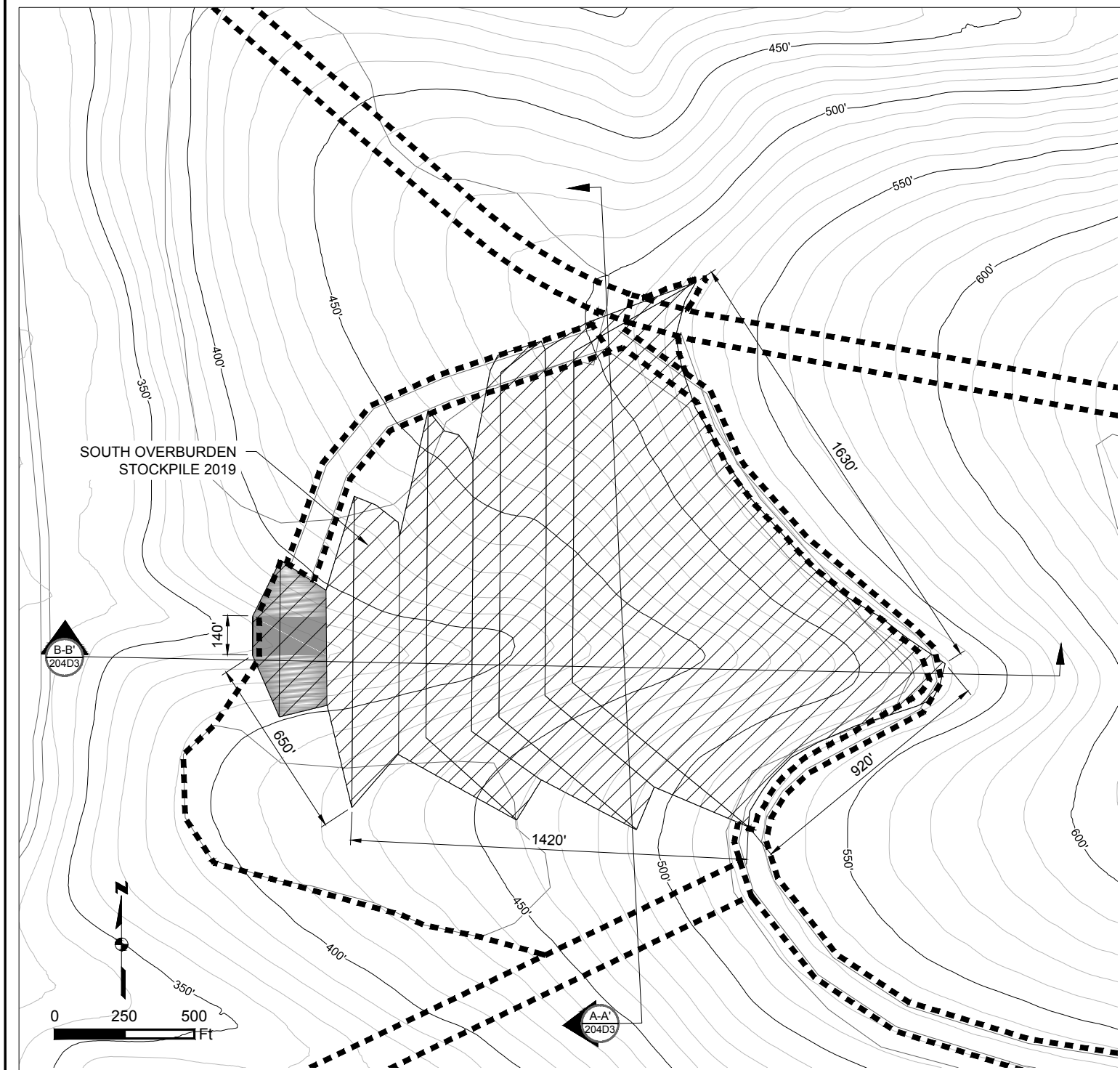


TERRACE BORROW SITE 5 SECTION B-B'
HORIZONTAL SCALE 1" = 400'
VERTICAL SCALE 1" = 80'

- | | | |
|-------------------------|-------------------|--------------------------|
| — Existing 10' Contours | Fill Area | Project Disturbance |
| — Existing 50' Contours | Cut Area | Borrow Excavation Limit* |
| | — Existing Ground | |
| | Proposed Grade | |

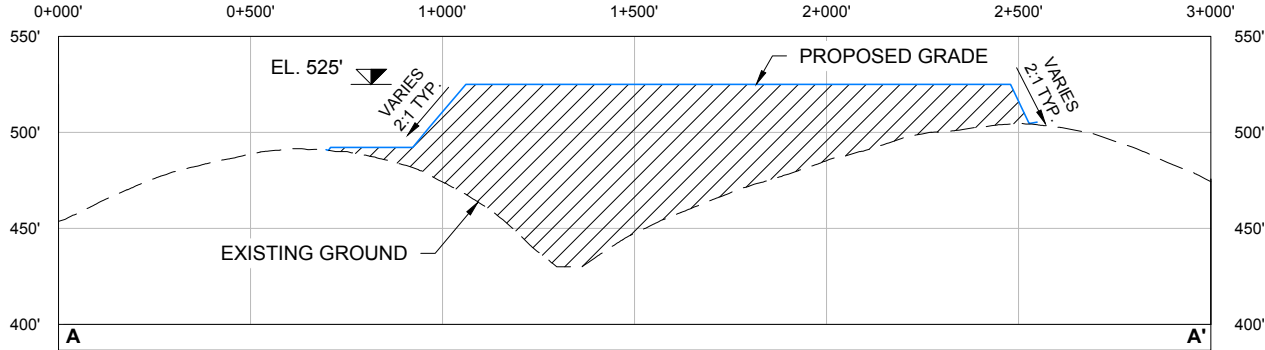
NOTE:
* BORROW LIMIT SUBJECT TO CHANGE PENDING
FURTHER GEOTECHNICAL INVESTIGATION

Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: TERRACE BORROW SITE 5 DETAIL	
TERRACE_3-5.dwg (BGC) JUN 2012		NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
SCALE: AS SHOWN		DATE: 9/28/2015		MA-204D2	POA-1995-120

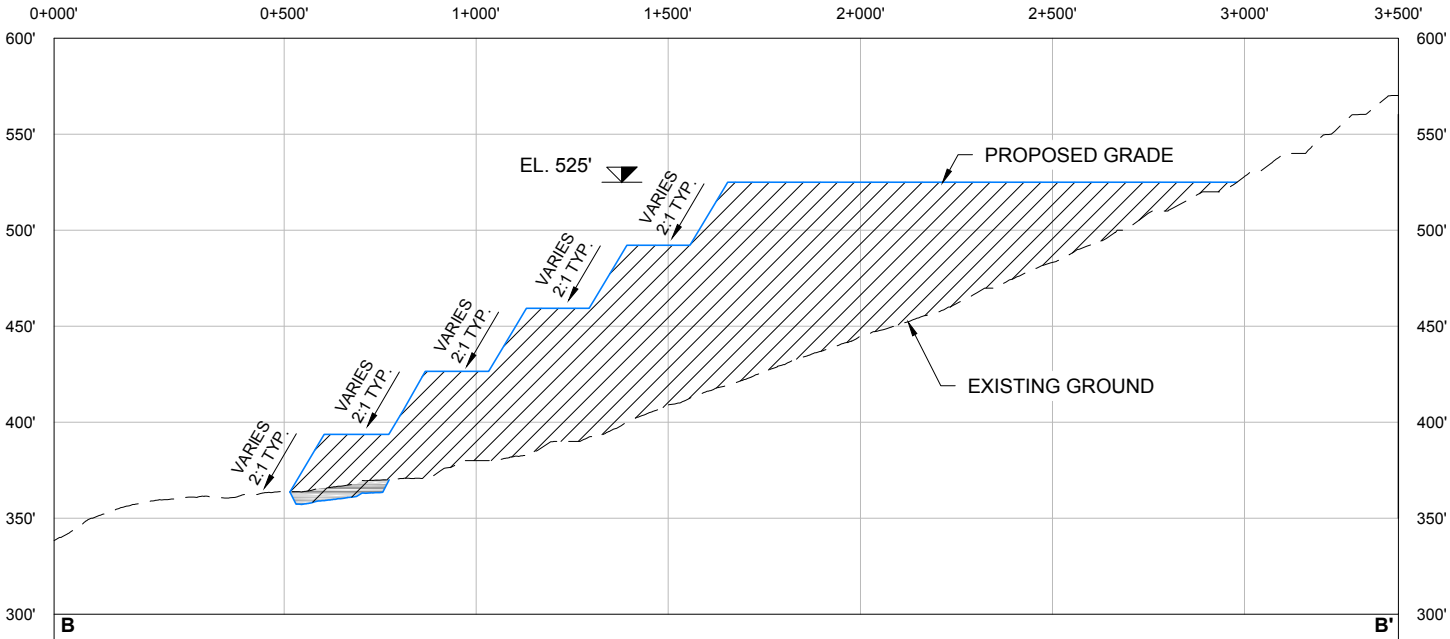


SOUTH OVERBURDEN STOCKPILE 2019 PLAN
SCALE 1" = 500'

NOTE:
DRAINAGE AND EROSION CONTROLS
WILL BE DEVELOPED WITHIN THE
DISTURBANCE FOOTPRINT.



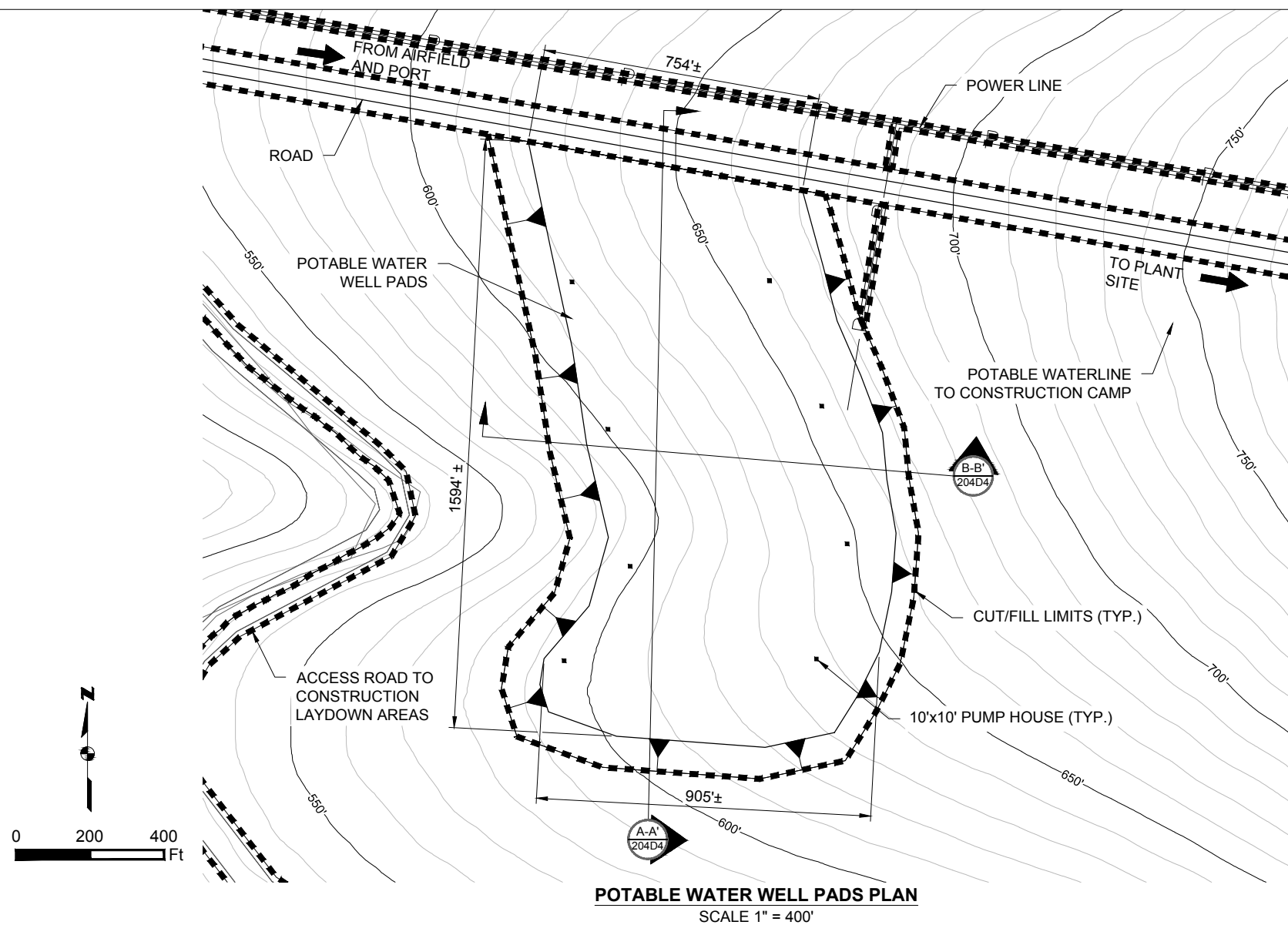
A-A'
SOUTH OVERBURDEN STOCKPILE 2019 SECTION A-A'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'



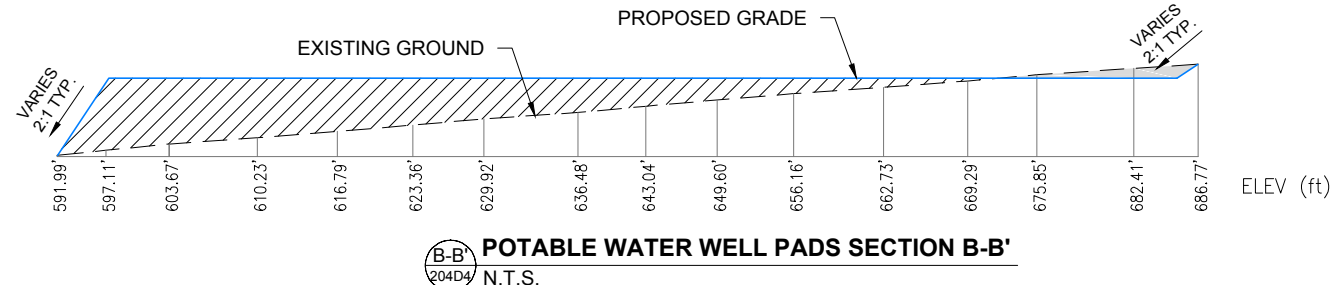
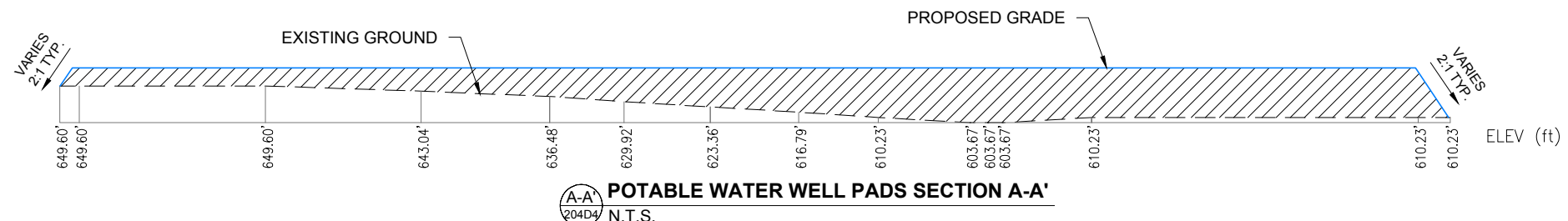
B-B'
SOUTH OVERBURDEN STOCKPILE 2019 SECTION B-B'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'

Existing 10' Contours		Fill Area		Project Disturbance	
Existing 50' Contours		Cut Area			
		Existing Ground			
		Proposed Grade			

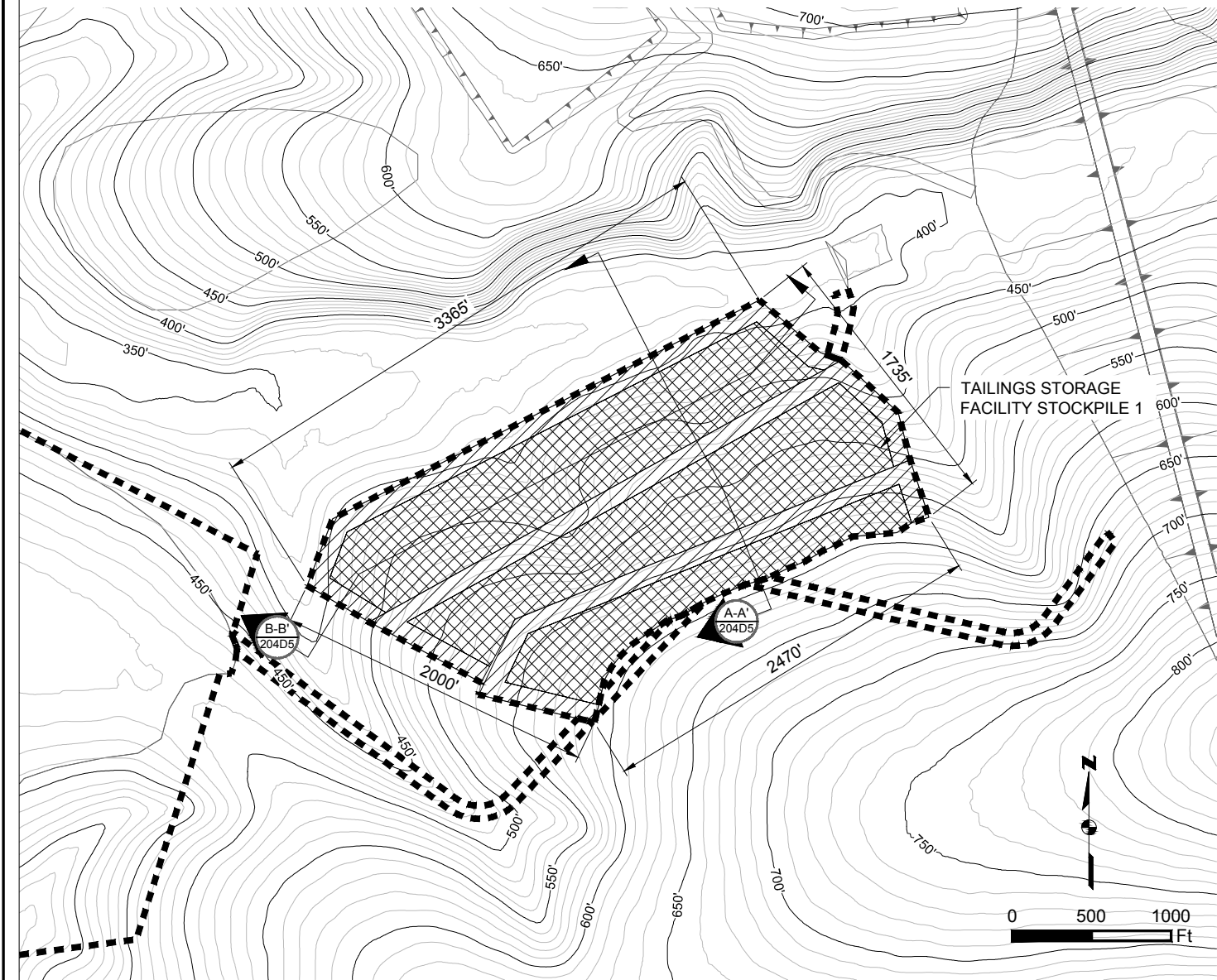
Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
11_SOUTH_OVERBURDEN_STOCKPILE_2019.dwg (BGC) JUN 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		SOUTH OVERBURDEN STOCKPILE 2019 DETAIL	
		NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
SCALE: AS SHOWN		DATE: 9/5/2015		MA-204D3	POA-1995-120



- NOTES:
1. ALL EXISTING CONTOUR ELEVATIONS ARE IN FEET UNLESS NOTED OTHERWISE.
 2. ALL PROPOSED ELEVATIONS AND DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.

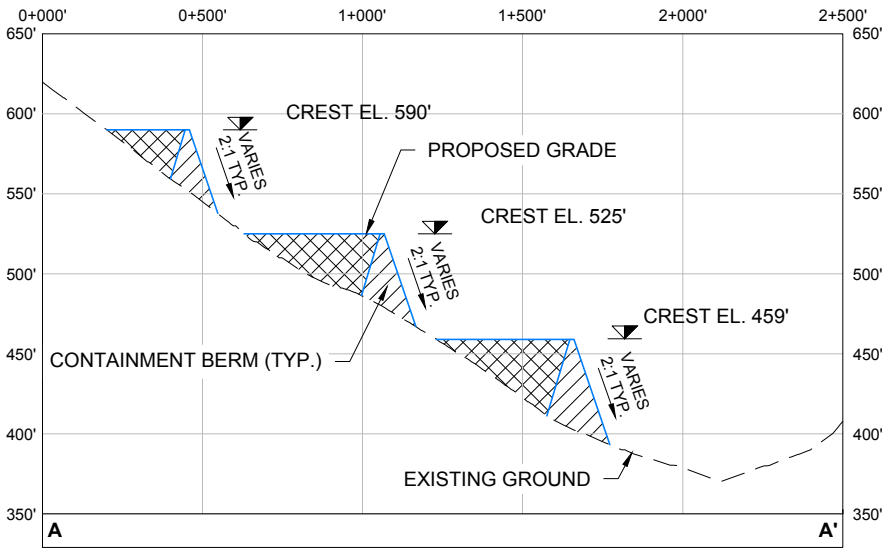


Existing 10' Contours Existing 50' Contours			Fill Area Cut Area		Project Disturbance Existing Ground Proposed Grade		Associated Engineering Drawings M12C-SP-WS_01.dwg (BAKER) SEP 2014		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: POTABLE WATER WELL PADS DETAIL	
									SCALE: AS SHOWN		DATE: 9/11/2015	
									FIGURE NO. MA-204D4		FILE NO. POA-1995-120	

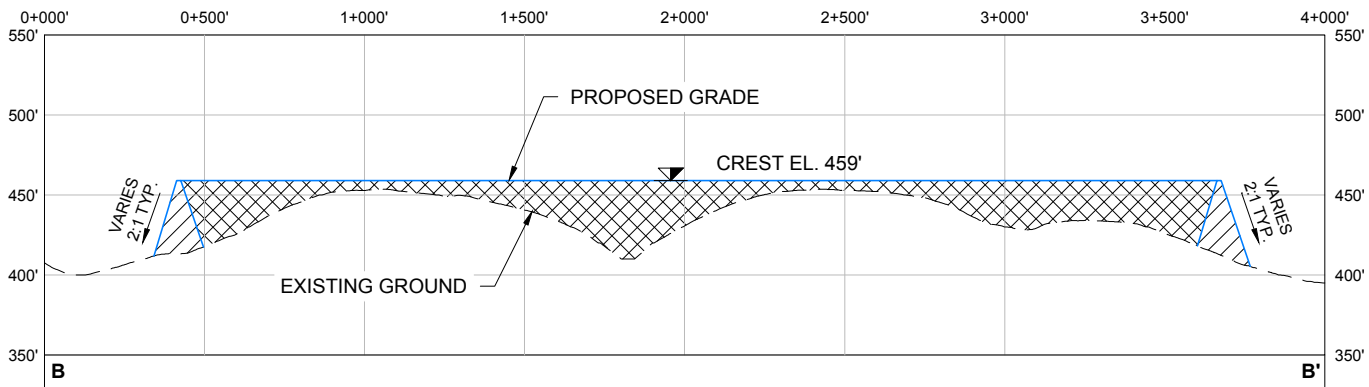


TAILINGS STORAGE FACILITY STOCKPILE 1 PLAN
SCALE 1" = 1000'

NOTE:
DRAINAGE AND EROSION CONTROLS
WILL BE DEVELOPED WITHIN THE
DISTURBANCE FOOTPRINT.



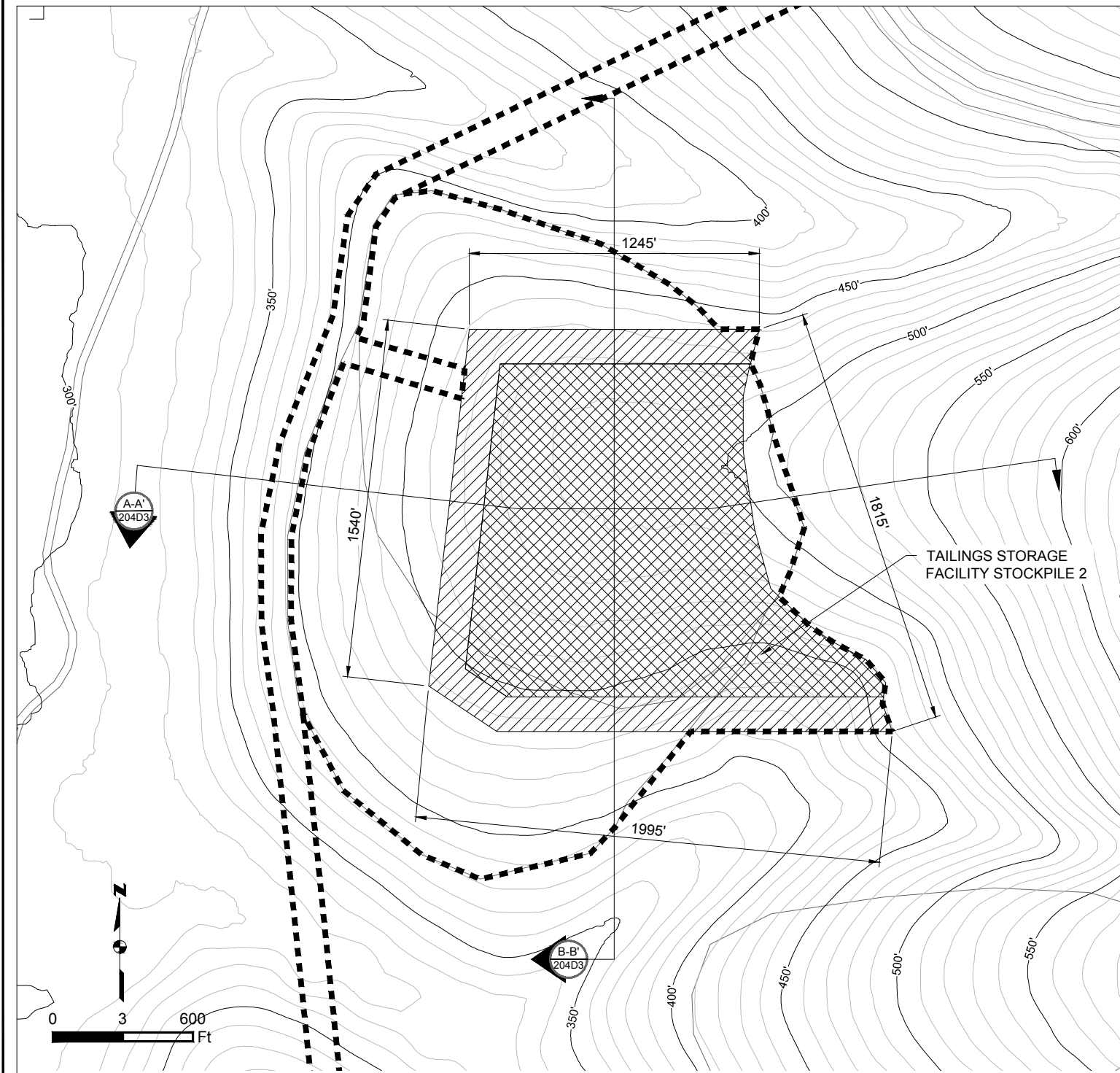
TAILINGS STORAGE FACILITY STOCKPILE 1 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



TAILINGS STORAGE FACILITY STOCKPILE 1 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

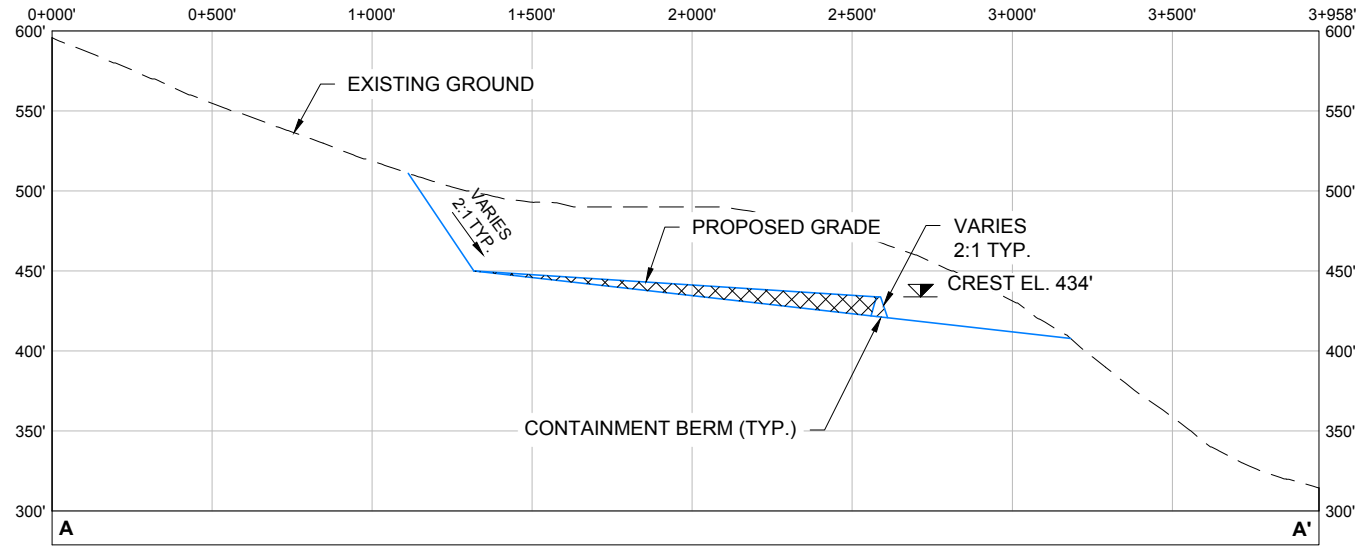
Existing 10' Contours	Fill Area	Project Disturbance
Existing 50' Contours	Overburden Storage	
	Existing Ground	
	Proposed Grade	

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
TAILINGS_STORAGE_FACILITY_STOCKPILE_1.dwg (BGC) JUNE 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TAILINGS STORAGE FACILITY STOCKPILE 1 DETAIL	
		NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
		SCALE: AS SHOWN		MA-204D5	POA-1995-120
		DATE: 9/5/2015			

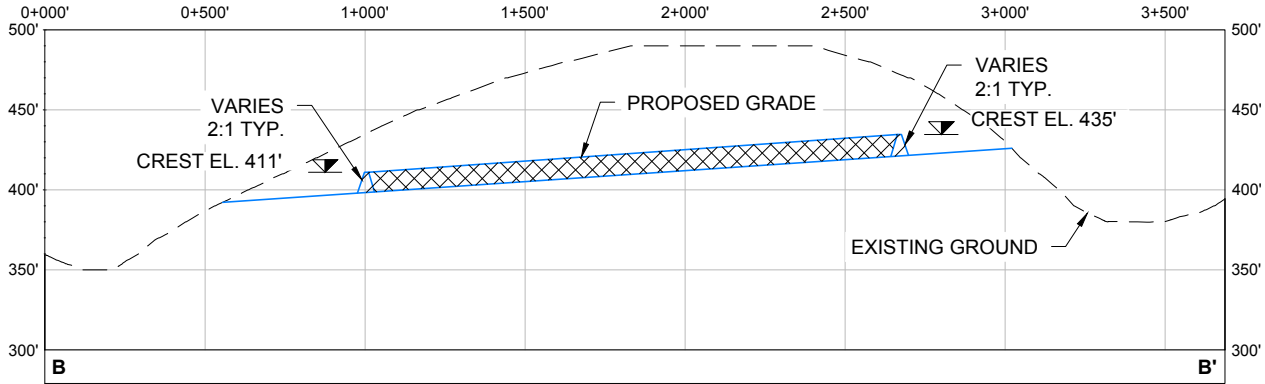


TAILINGS STORAGE FACILITY STOCKPILE 2 PLAN
SCALE 1" = 600'

NOTE:
DRAINAGE AND EROSION CONTROLS
WILL BE DEVELOPED WITHIN THE
DISTURBANCE FOOTPRINT.



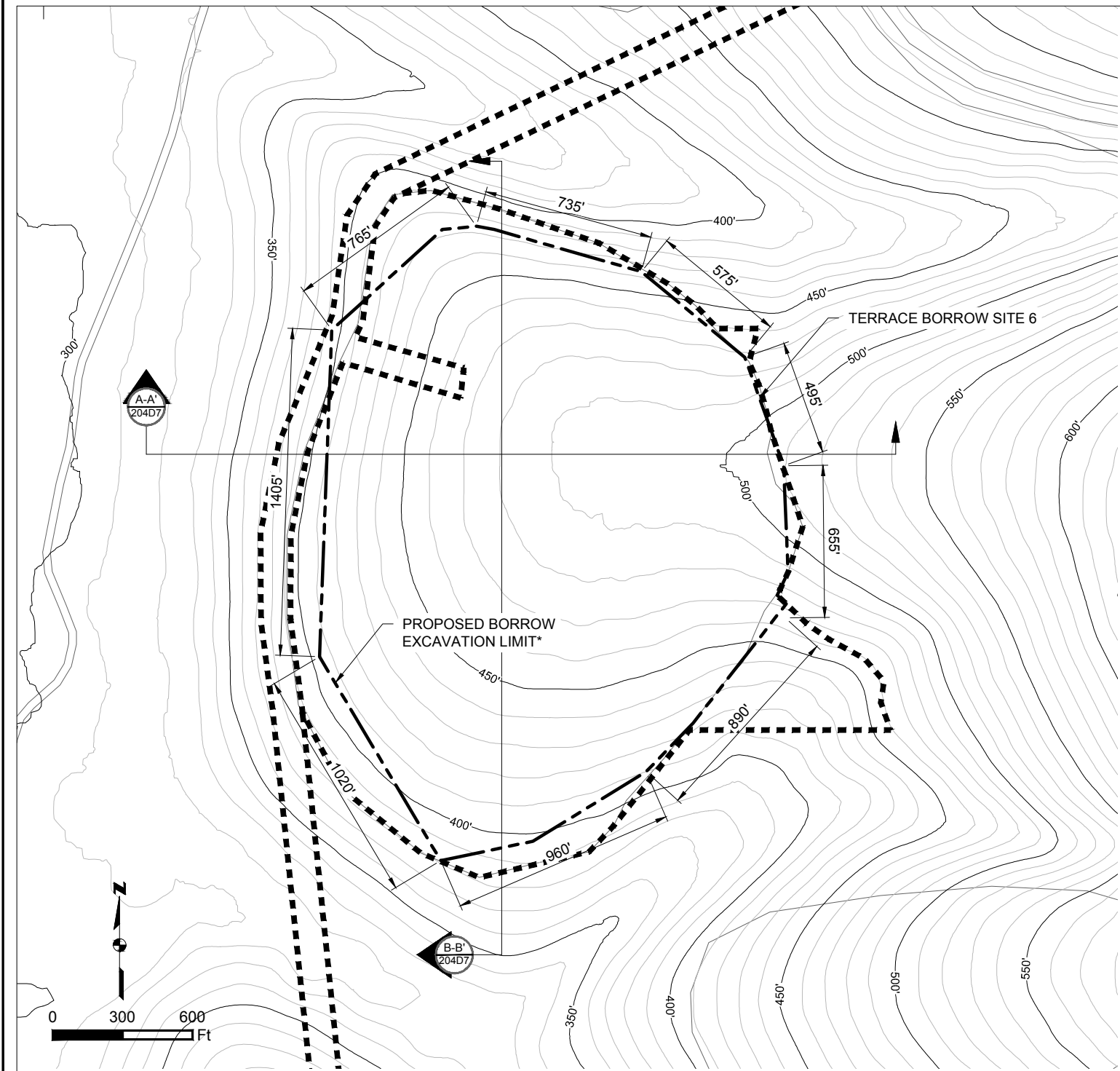
TAILINGS STORAGE FACILITY STOCKPILE 2 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



TAILINGS STORAGE FACILITY STOCKPILE 2 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

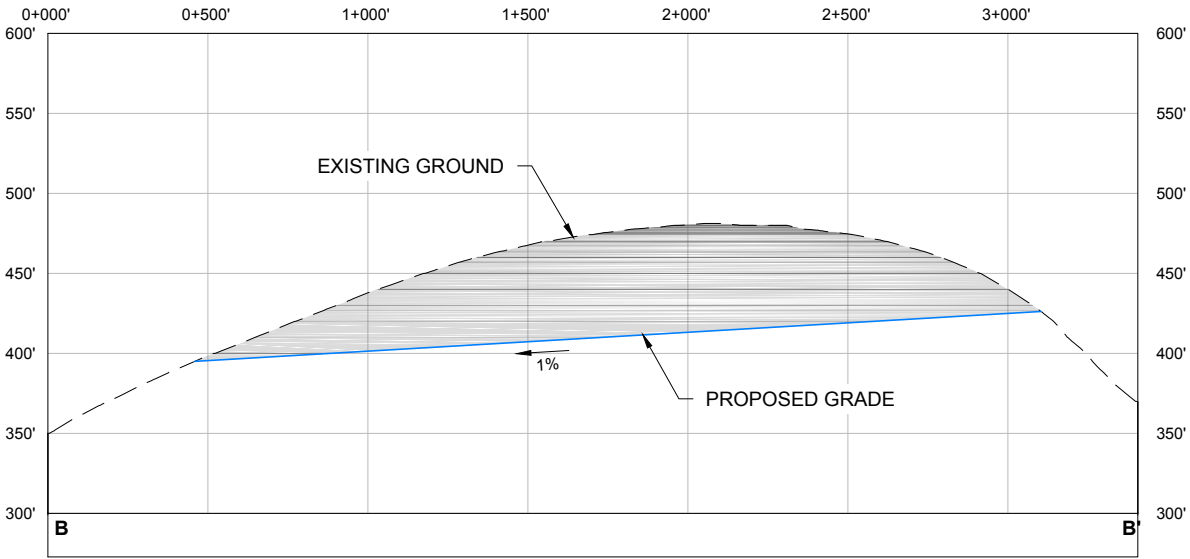
- Existing 10' Contours
- Existing 50' Contours
- Fill Area
- Overburden Storage
- Existing Ground
- Proposed Grade
- Project Disturbance

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
10_TAILINGS_STORAGE_FACILITY_STOCKPILE_2.dwg (BGC) JUN 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TAILINGS STORAGE FACILITY STOCKPILE 2 DETAIL	
		NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
SCALE: AS SHOWN		DATE: 9/11/2015		MA-204D6	POA-1995-120

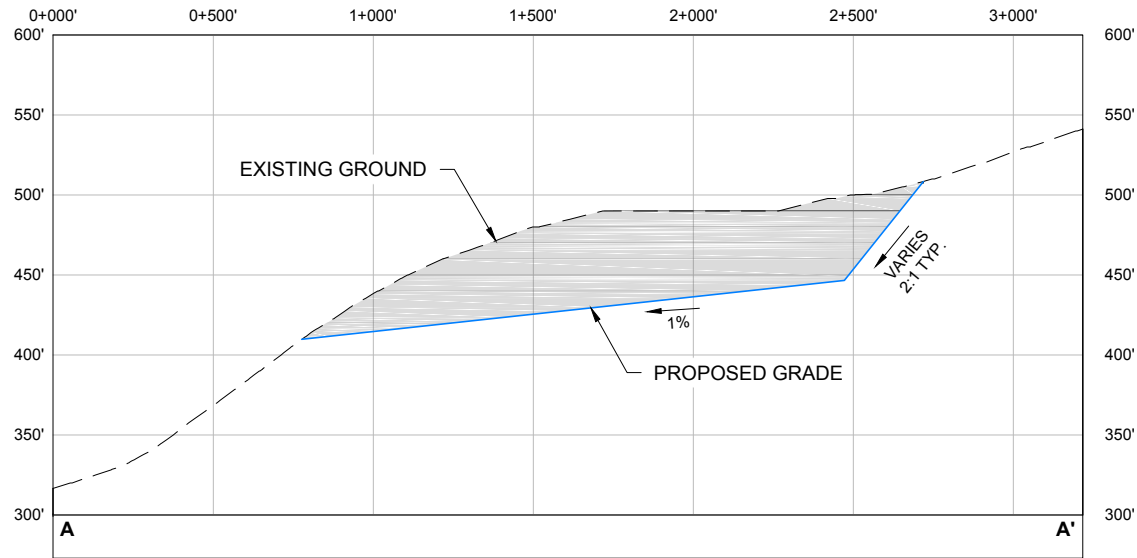


TERRACE BORROW SITE 6 PLAN
SCALE 1" = 600'

NOTE:
AREA TO BE USED AS A BORROW
SITE AND LATER PARTIALLY USED AS
AN OVERBURDEN STOCKPILE.



TERRACE BORROW SITE 6 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



TERRACE BORROW SITE 6 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

- Existing 10' Contours
- Existing 50' Contours
- Fill Area
- Cut Area
- Existing Ground
- Proposed Grade
- Project Disturbance
- Borrow Excavation Limit*

NOTE:
* BORROW LIMIT SUBJECT TO CHANGE PENDING
FURTHER GEOTECHNICAL INVESTIGATION

Associated Engineering Drawings
13_SOUTH_OVERBURDEN_TERRACE_BORROW_6.dwg
(BGC) JUN 2012

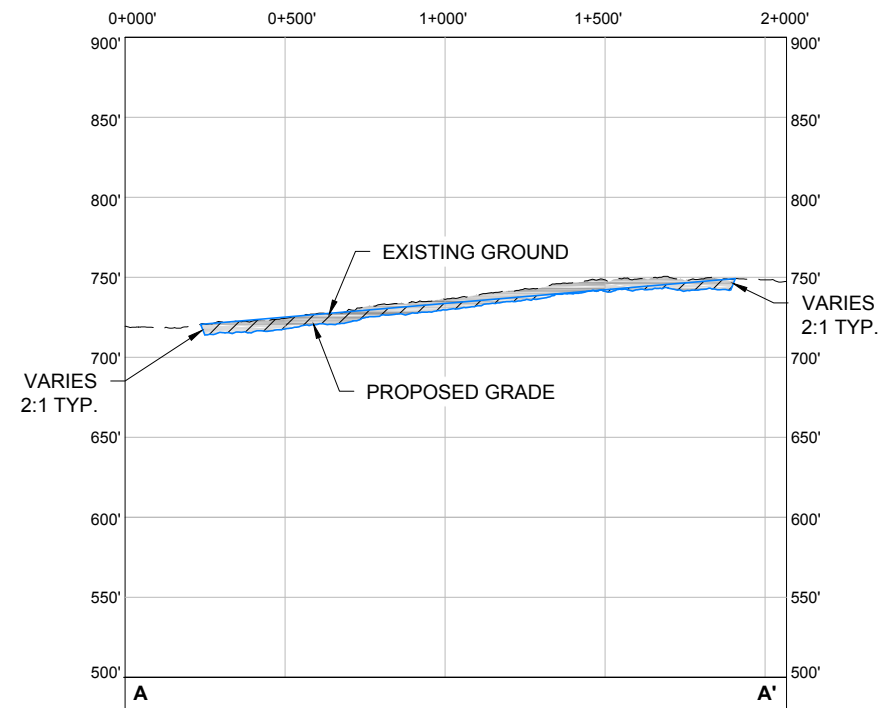
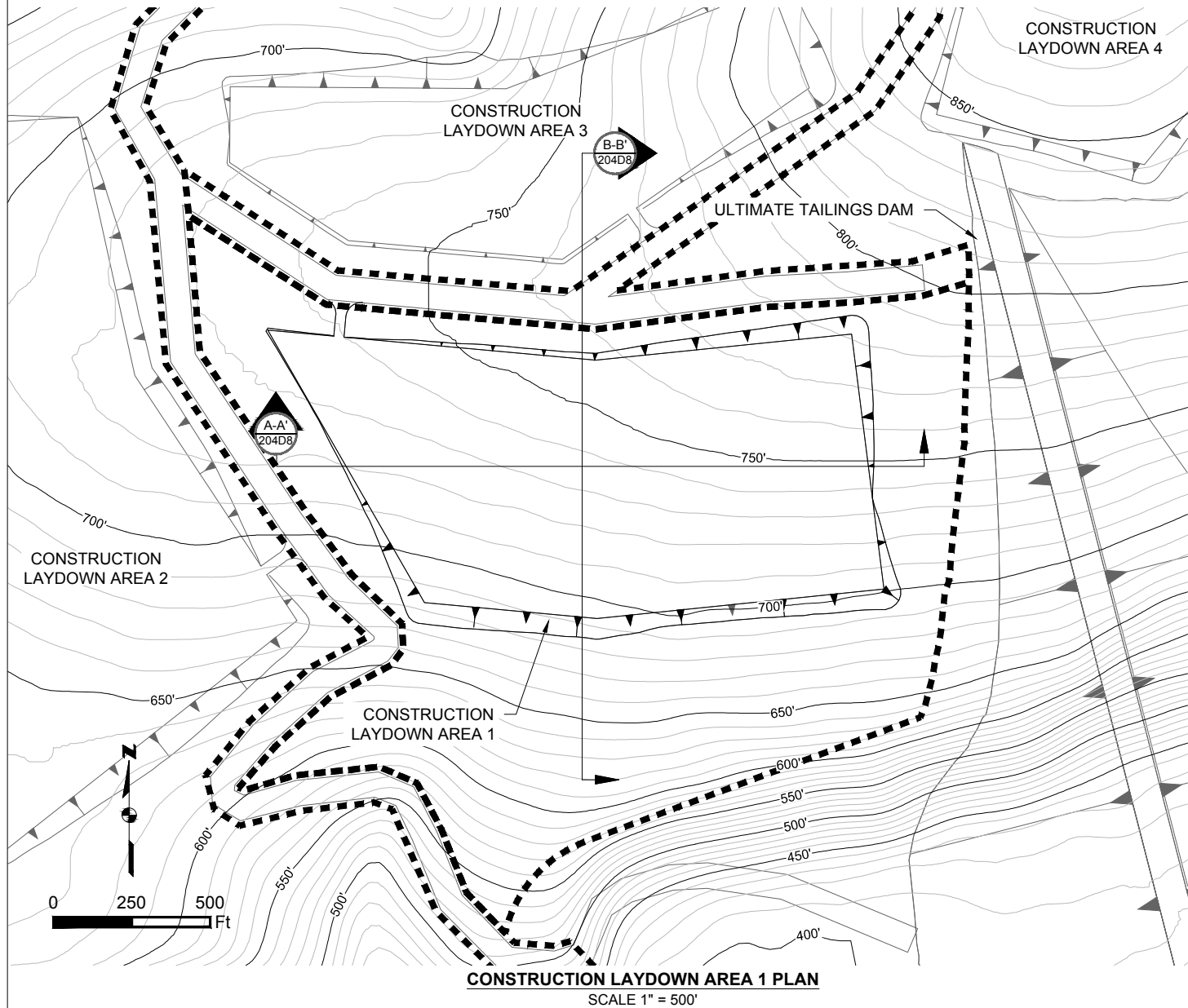
DONLIN GOLD PROJECT
 APPLICANT: Donlin Gold, LLC
 4720 Business Park Blvd., Suite G-25
 Anchorage, Alaska 99503

NAD 1983 UTM Zone 4N

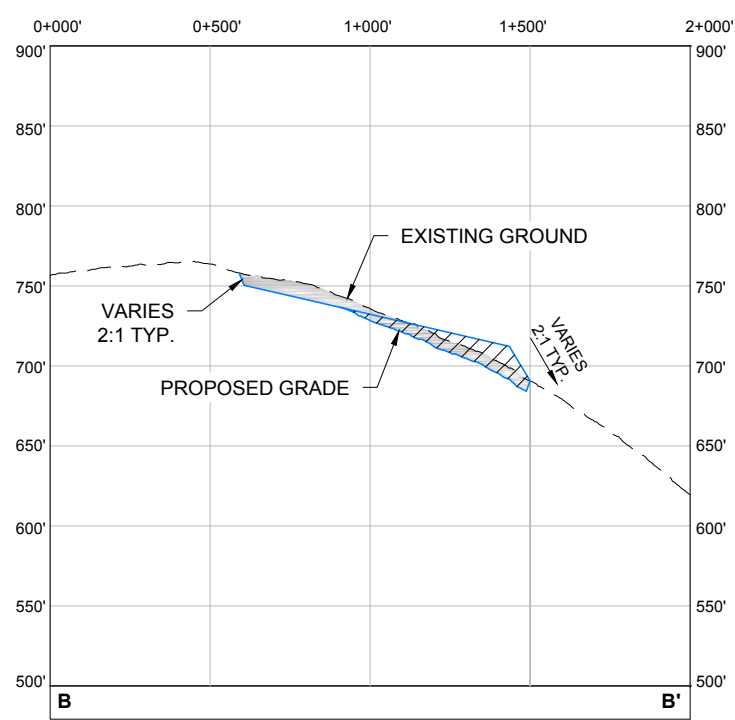
SCALE: AS SHOWN DATE: 9/28/2015

DRAWING TITLE:
**TERRACE BORROW SITE 6
DETAIL**

FIGURE NO. **MA-204D7** FILE NO. **POA-1995-120**



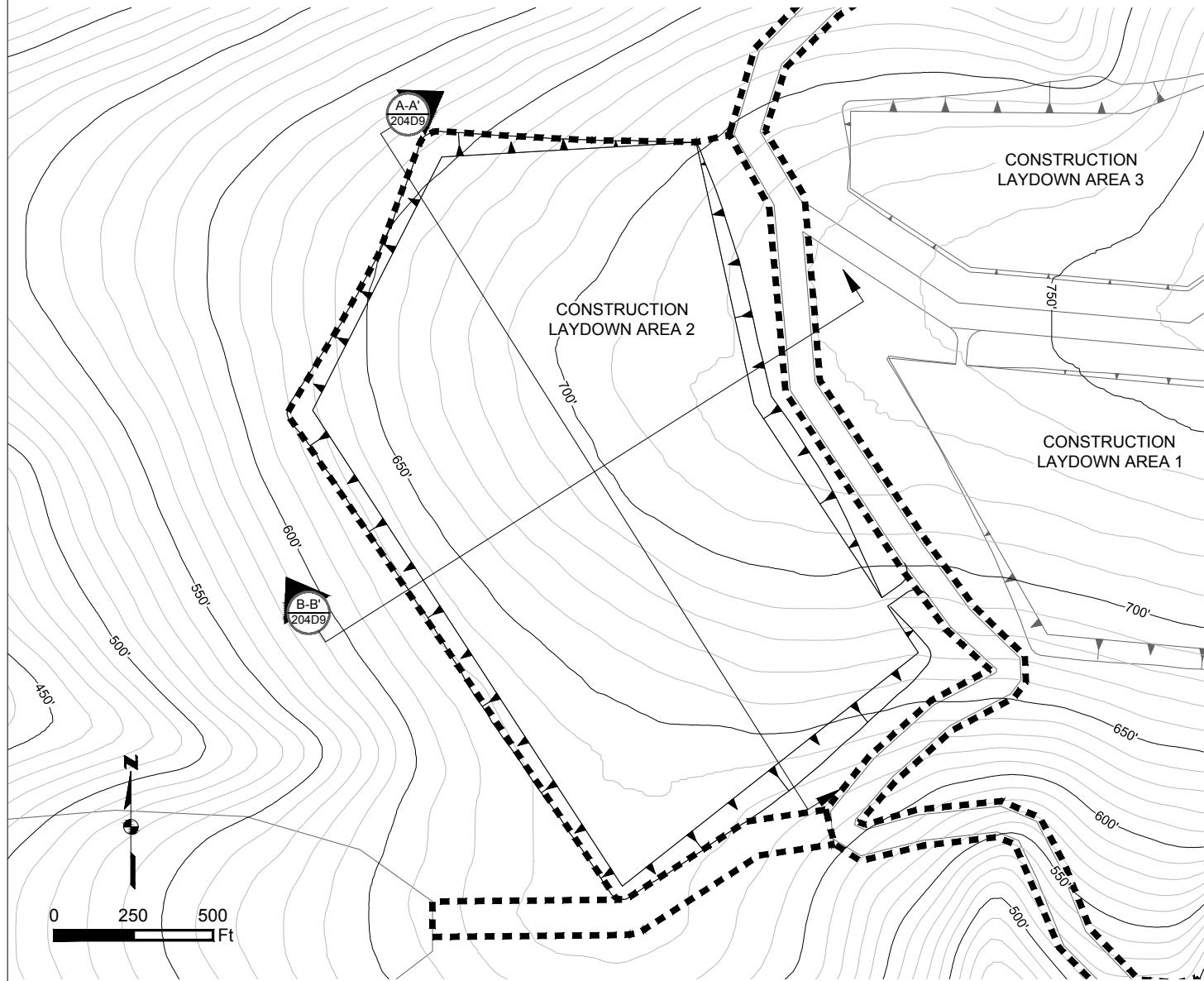
CONSTRUCTION LAYDOWN AREA 1 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



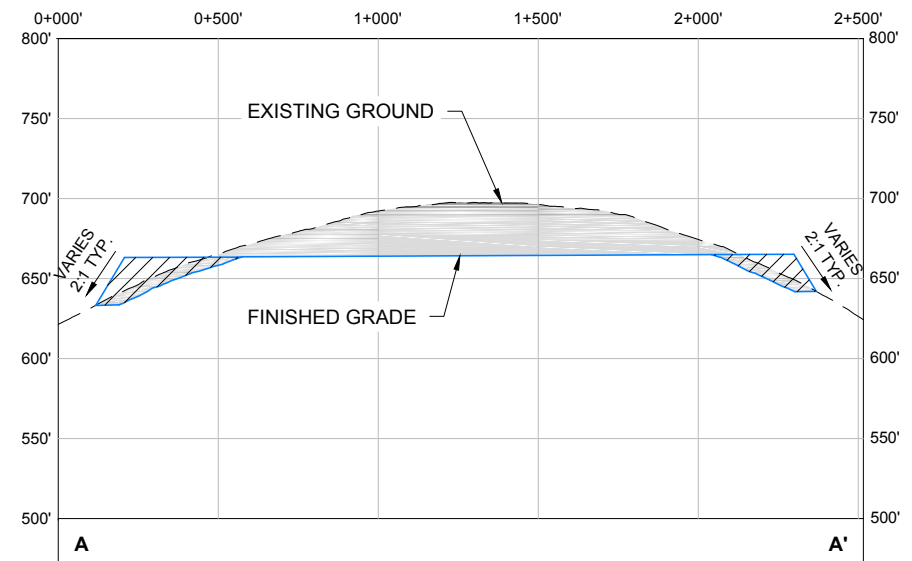
CONSTRUCTION LAYDOWN AREA 1 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

- | | | |
|-----------------------|-----------------|---------------------|
| Existing 10' Contours | Fill Area | Project Disturbance |
| Existing 50' Contours | Cut Area | |
| | Existing Ground | |
| | Proposed Grade | |

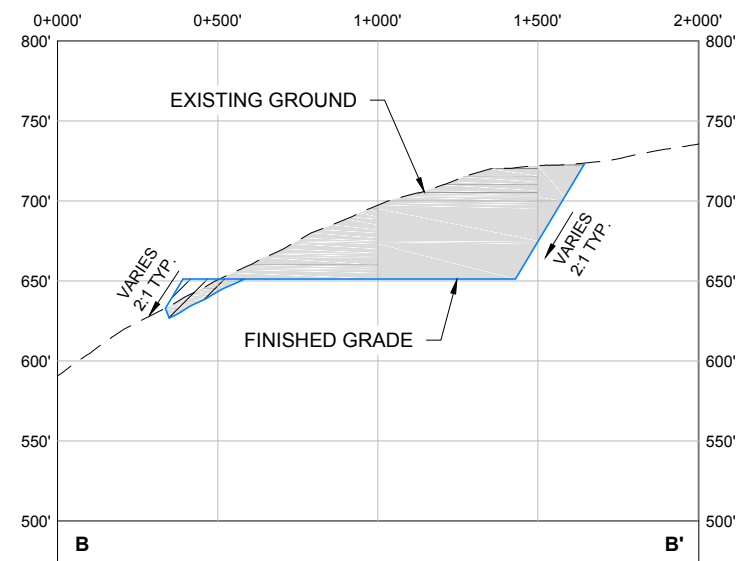
Associated Engineering Drawings CONSTRUCTION_AREA_LAYDOWN_NO_1.dwg (BGC) JUNE 2012	DONLIN GOLD PROJECT		DRAWING TITLE:	
	APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		CONSTRUCTION LAYDOWN AREA 1 DETAIL	
	NAD 1983 UTM Zone 4N		FIGURE NO.	
	SCALE:	AS SHOWN	DATE: 9/11/2015	MA-204D8
			FILE NO. POA-1995-120	



CONSTRUCTION LAYDOWN AREA 2 PLAN
SCALE 1" = 500'



CONSTRUCTION LAYDOWN AREA 2 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



CONSTRUCTION LAYDOWN AREA 2 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

— Existing 10' Contours	▨ Fill Area	■ Project Disturbance
— Existing 50' Contours	■ Cut Area	
	— Existing Ground	
	— Proposed Grade	

Associated Engineering Drawings

CONSTRUCTION_AREA_LAYDOWN_NO_2.dwg (BGC) JUNE 2012

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

NAD 1983 UTM Zone 4N

SCALE: AS SHOWN

DATE: 9/11/2015

DRAWING TITLE:

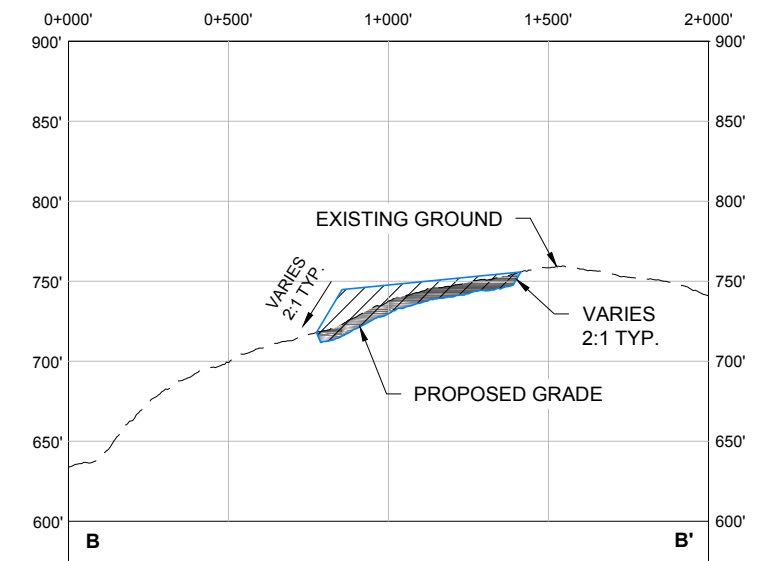
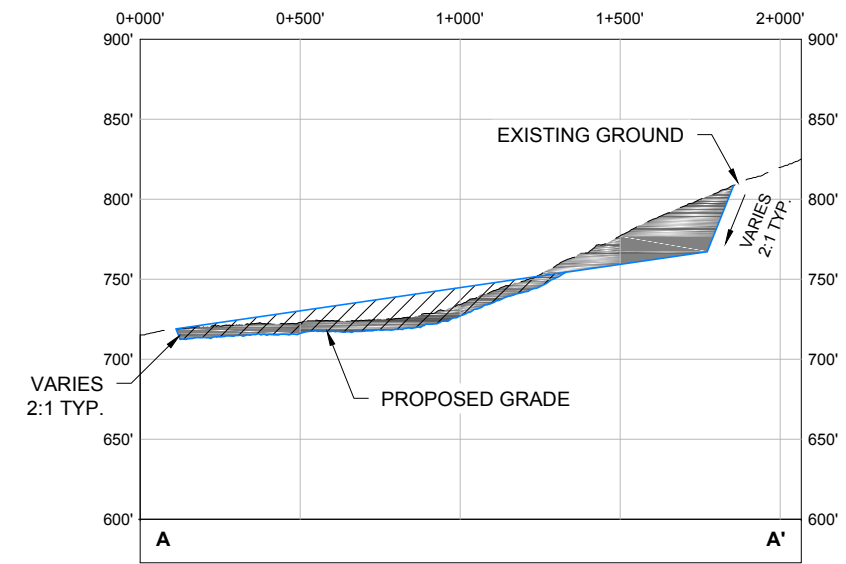
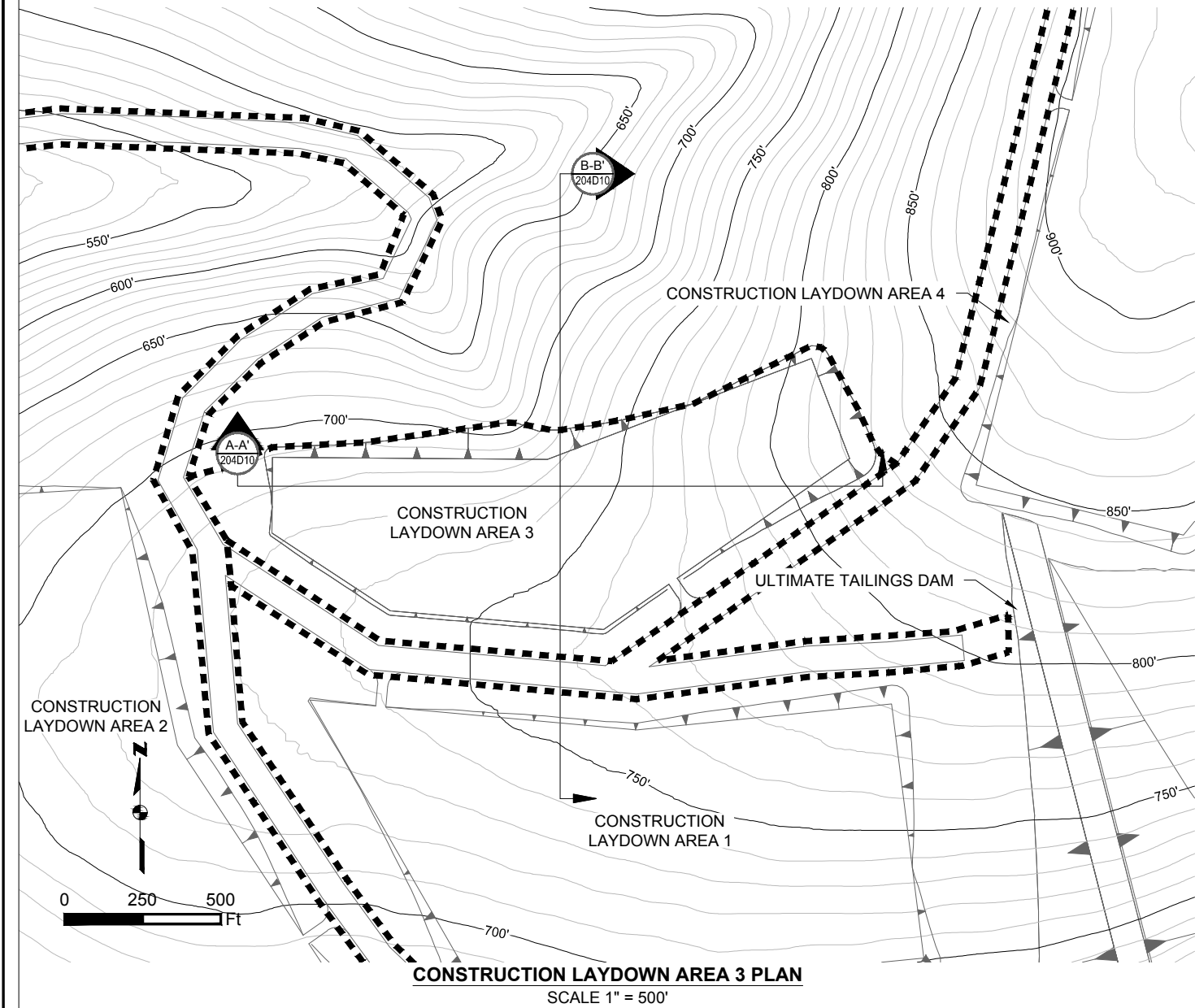
**CONSTRUCTION LAYDOWN AREA 2
DETAIL**

FIGURE NO.

MA-204D9

FILE NO.

POA-1995-120

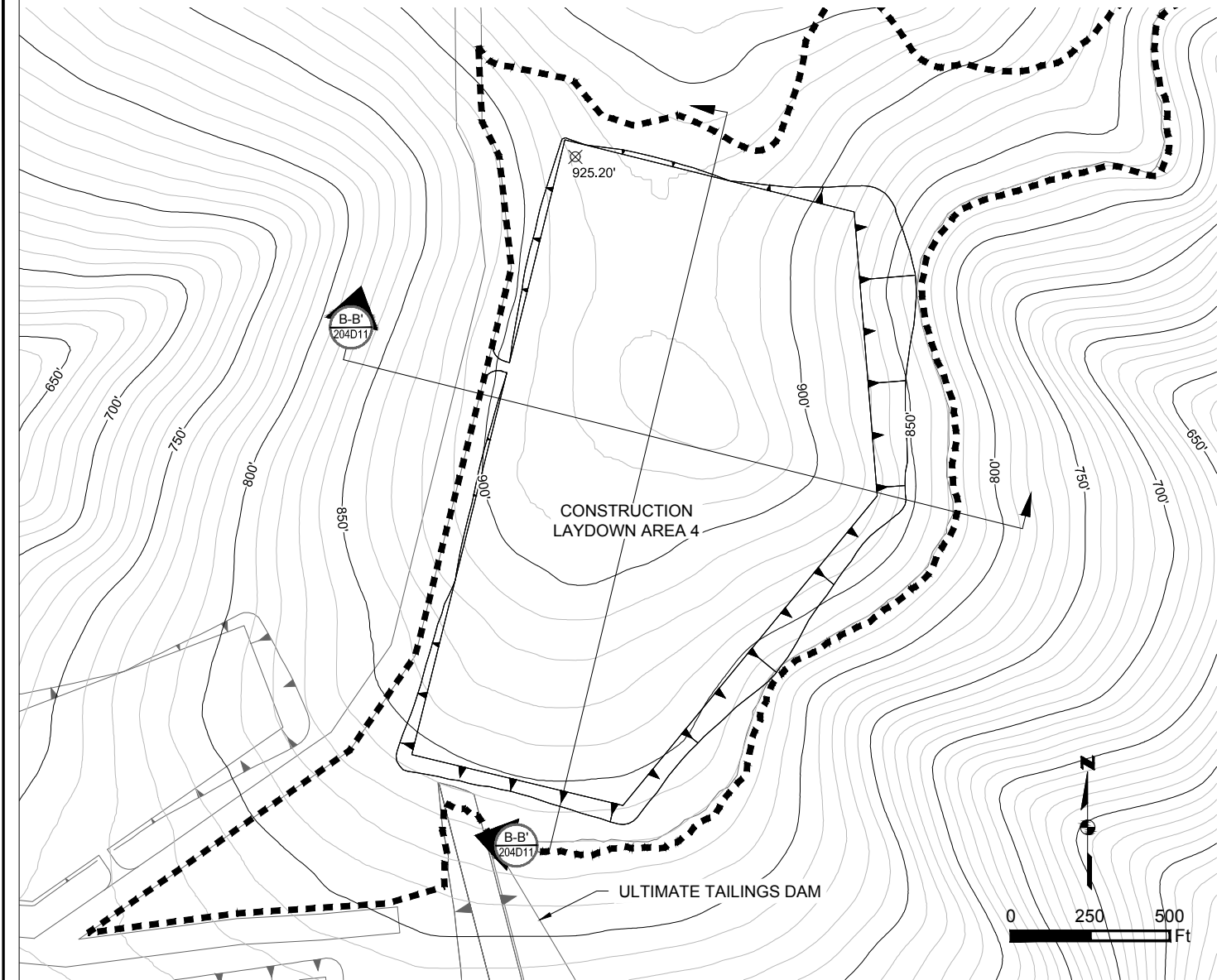


Existing 10' Contours
Existing 50' Contours
Fill Area
Cut Area
Existing Ground
Proposed Grade
Project Disturbance

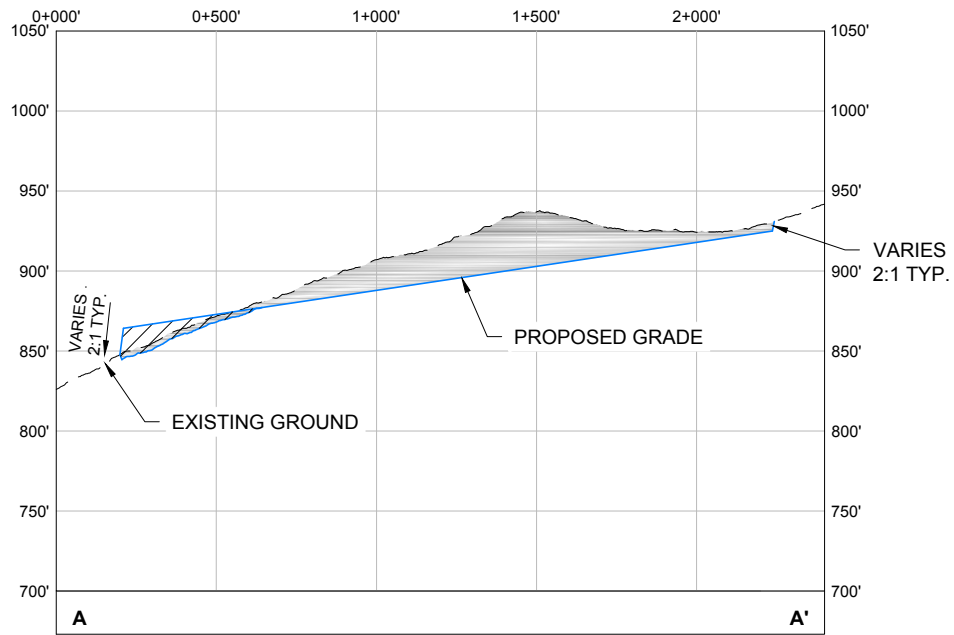
Associated Engineering Drawings
CONSTRUCTION_AREA_LAYDOWN_NO_3.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN
DATE: 9/11/2015

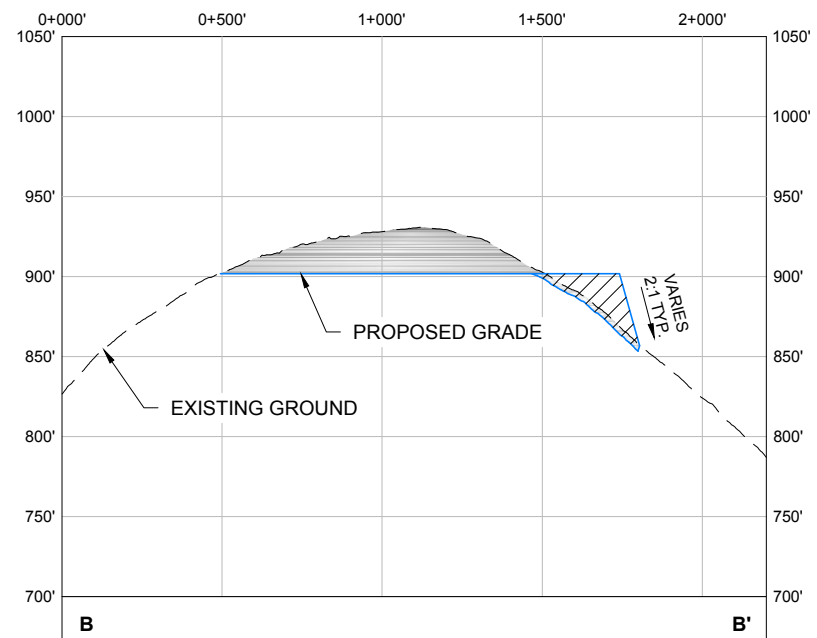
DRAWING TITLE:
CONSTRUCTION LAYDOWN AREA 3
DETAIL
FIGURE NO.
MA-204D10
FILE NO.
POA-1995-120



CONSTRUCTION LAYDOWN AREA 4 PLAN
SCALE 1" = 500'



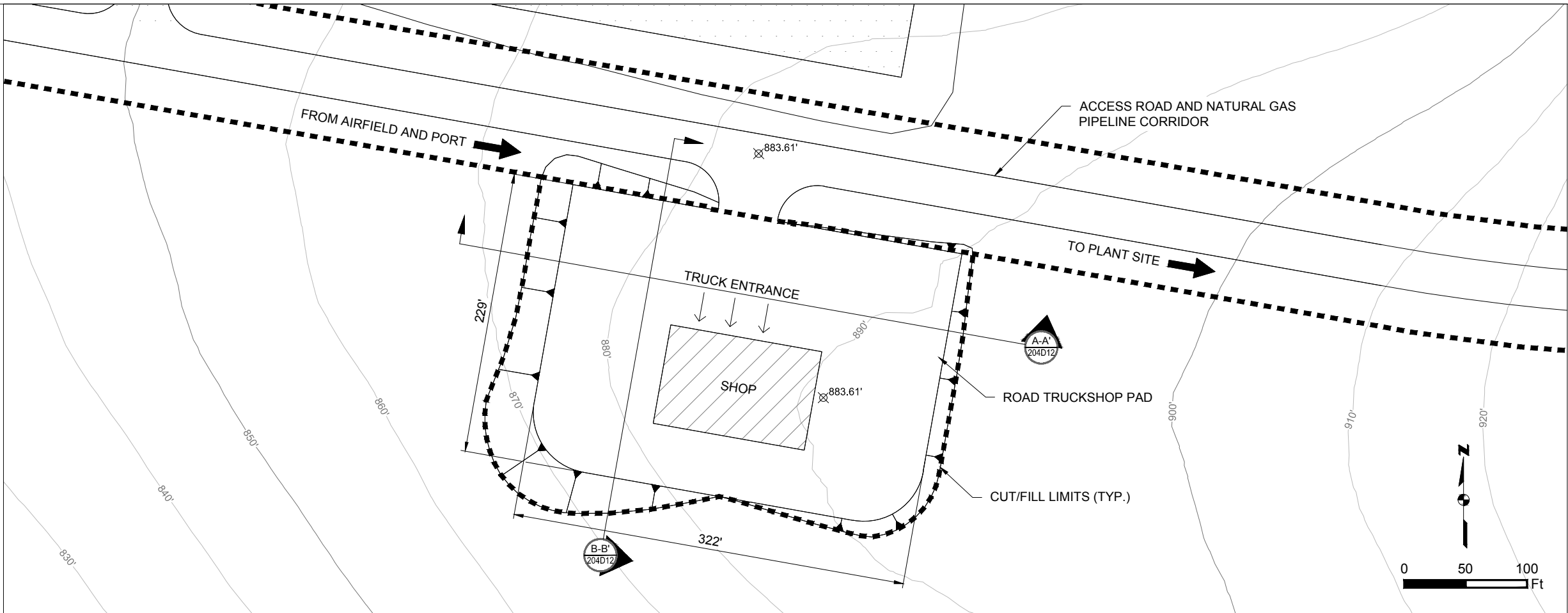
CONSTRUCTION LAYDOWN AREA 4 SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



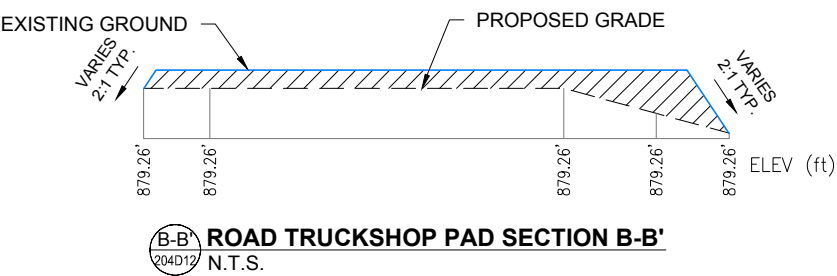
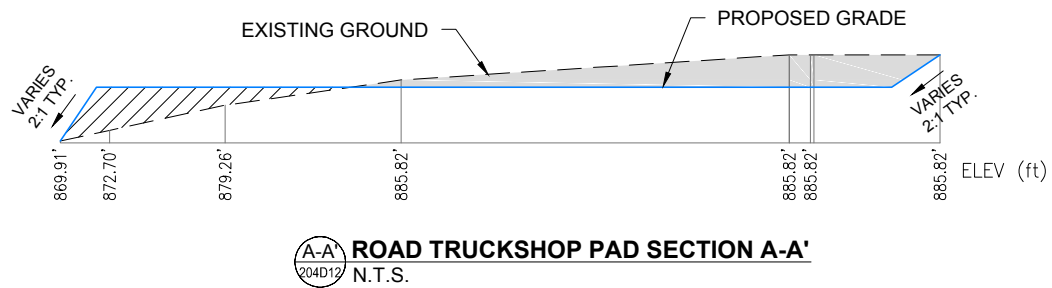
CONSTRUCTION LAYDOWN AREA 4 SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

- Existing 10' Contours
- Existing 50' Contours
- Fill Area
- Cut Area
- Existing Ground
- Proposed Grade
- Project Disturbance

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
CONSTRUCTION_AREA_LAYDOWN_NO_4.dwg (BGC) JUNE 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		CONSTRUCTION LAYDOWN AREA 4 DETAIL	
		NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
SCALE: AS SHOWN		DATE: 9/11/2015		MA-204D11	POA-1995-120



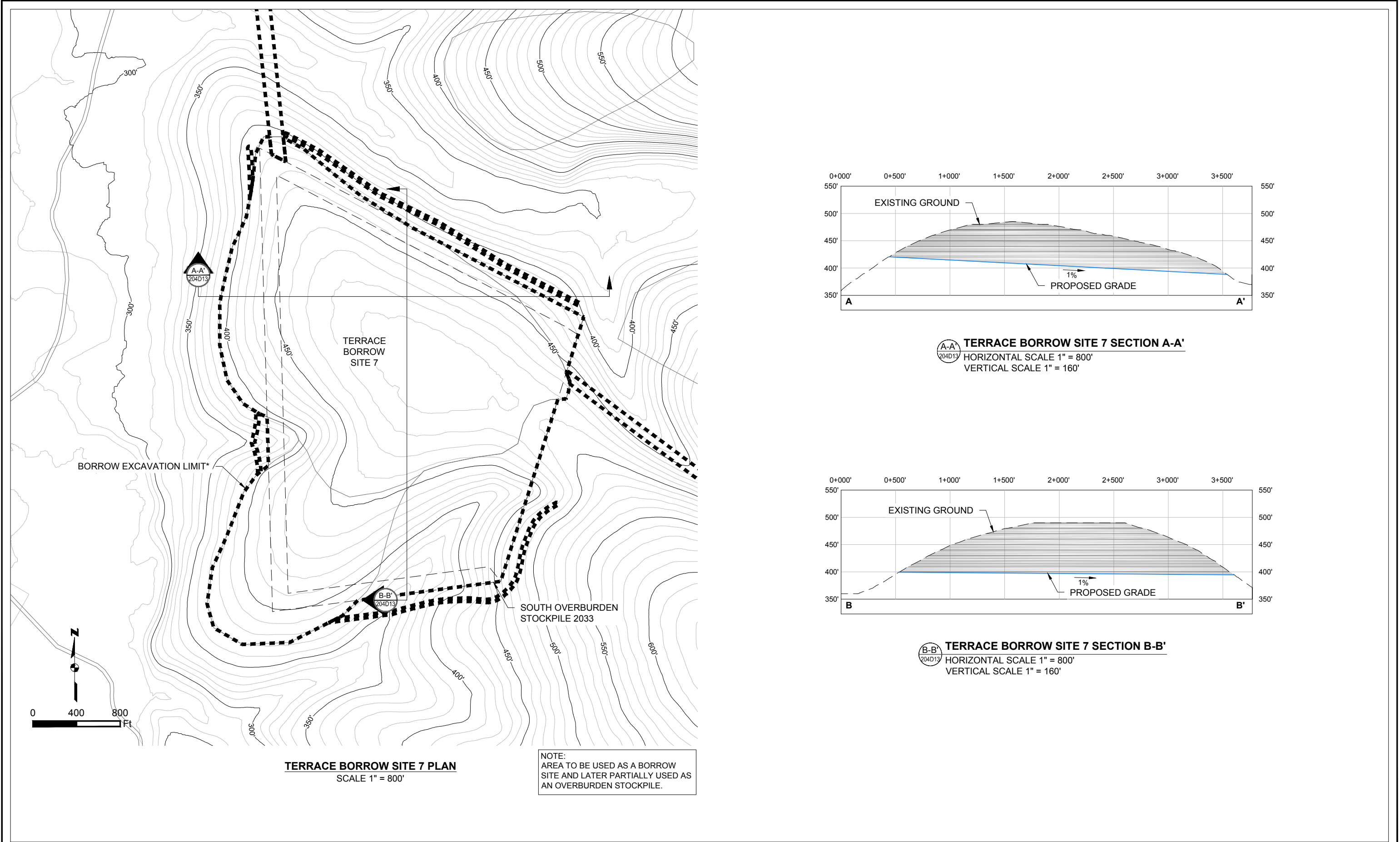
ROAD TRUCKSHOP PAD PLAN
SCALE 1" = 100'



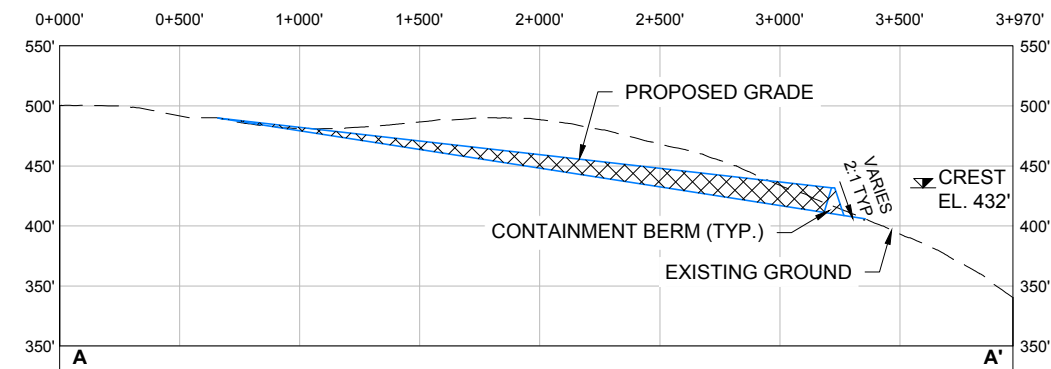
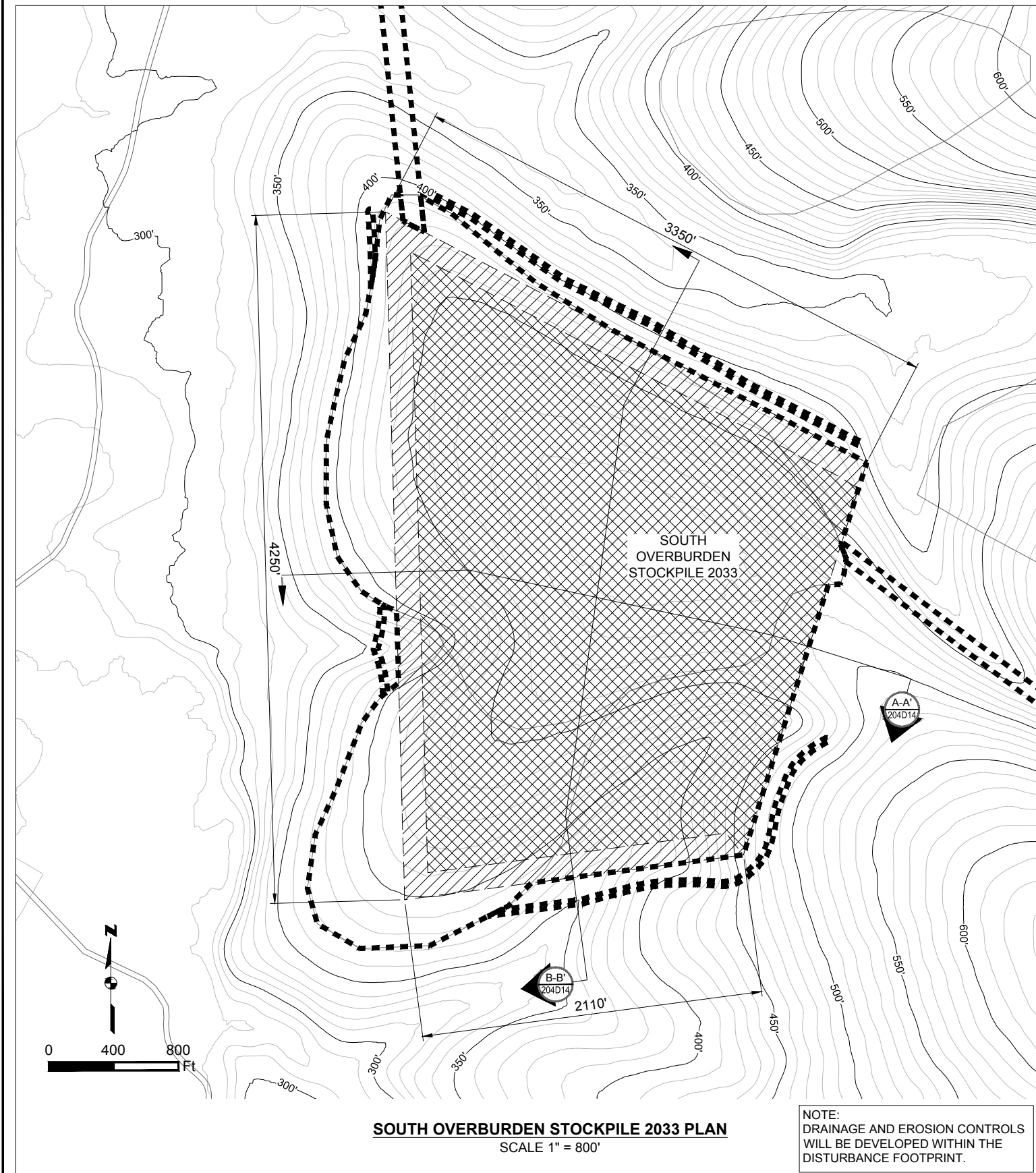
NOTES:

1. ALL EXISTING CONTOUR ELEVATIONS ARE IN FEET UNLESS NOTED OTHERWISE.
2. ALL PROPOSED ELEVATIONS AND DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.

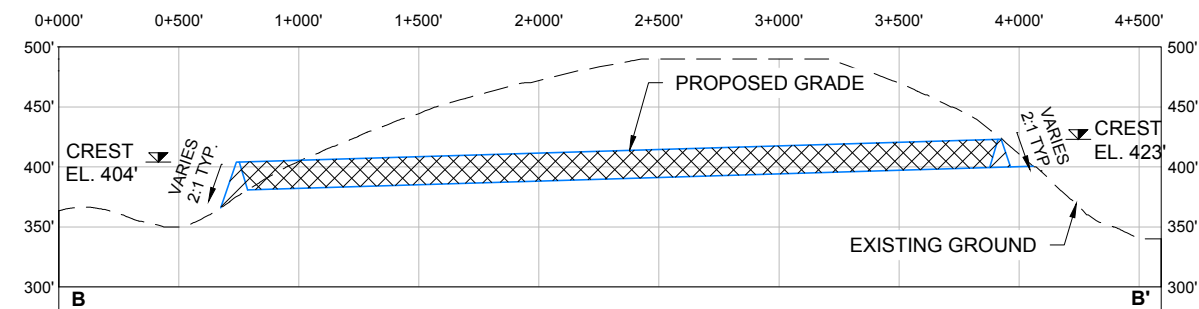
Existing 10' Contours Existing 50' Contours		Fill Area Cut Area Existing Ground Proposed Grade		Project Disturbance	
Associated Engineering Drawings M12C-SP-SH_01.dwg (BAKER) SEP 2014		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: ROAD TRUCKSHOP PAD DETAIL	
SCALE: AS SHOWN		DATE: 9/11/2015		FIGURE NO. MA-204D12	FILE NO. POA-1995-120



Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
TERRACE_7.dwg (BGC) JUN 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TERRACE BORROW SITE 7 DETAIL	
		NAD 1983 UTM Zone 4N		FIGURE NO.	FILE NO.
		SCALE: AS SHOWN		MA-204D13	POA-1995-120
		DATE: 9/11/2015			



(A-A') SOUTH OVERBURDEN STOCKPILE 2033 SECTION A-A'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'



(B-B') SOUTH OVERBURDEN STOCKPILE 2033 SECTION B-B'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'

— Existing 10' Contours	Fill Area	Project Disturbance
— Existing 50' Contours	Overburden Storage	
	— Existing Ground	
	Proposed Grade	

Associated Engineering Drawings
09_SOUTH_OVERBURDEN_STOCKPILE_2033.dwg (BGC) JUN 2012

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

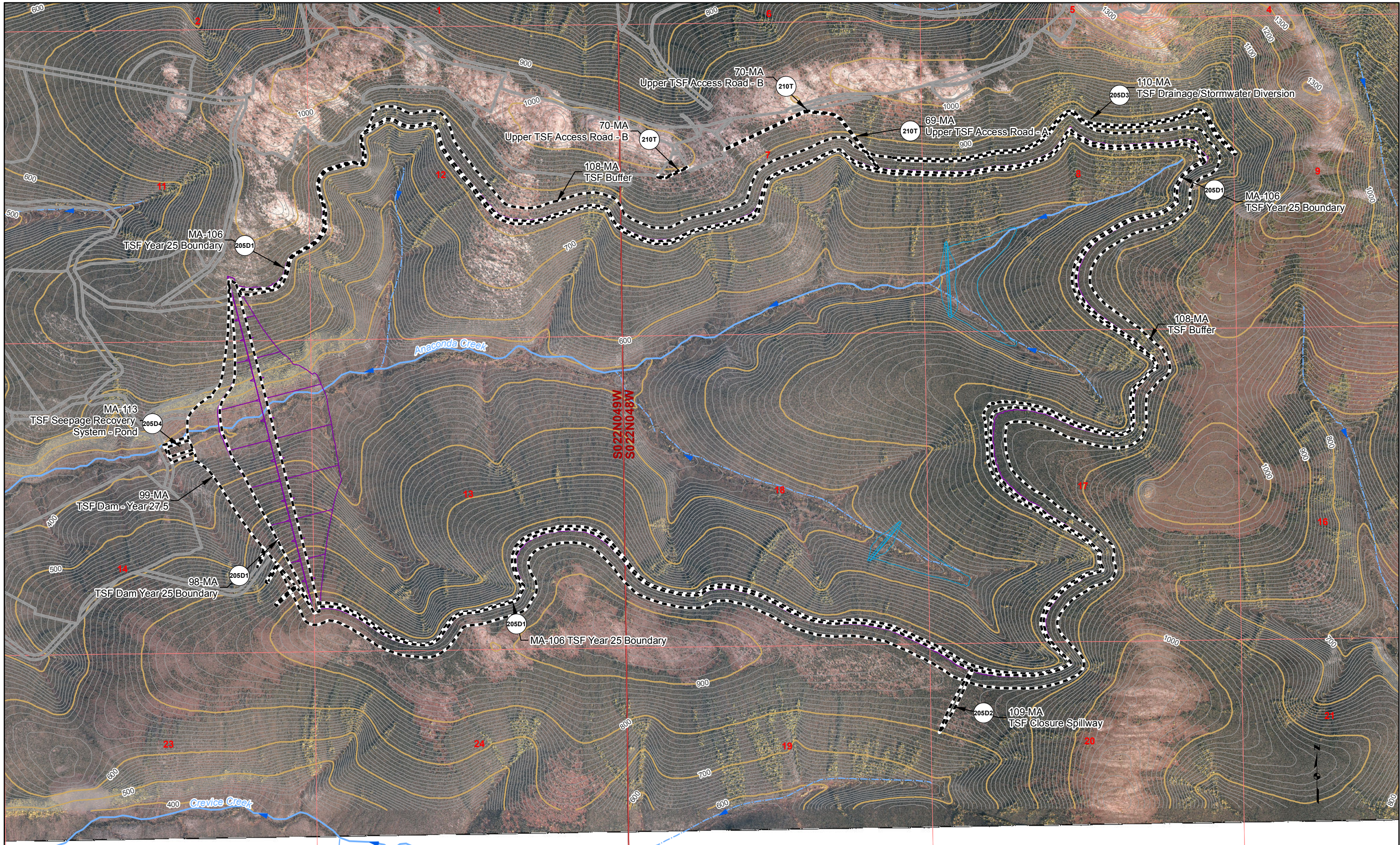
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN

DATE: 9/11/2015

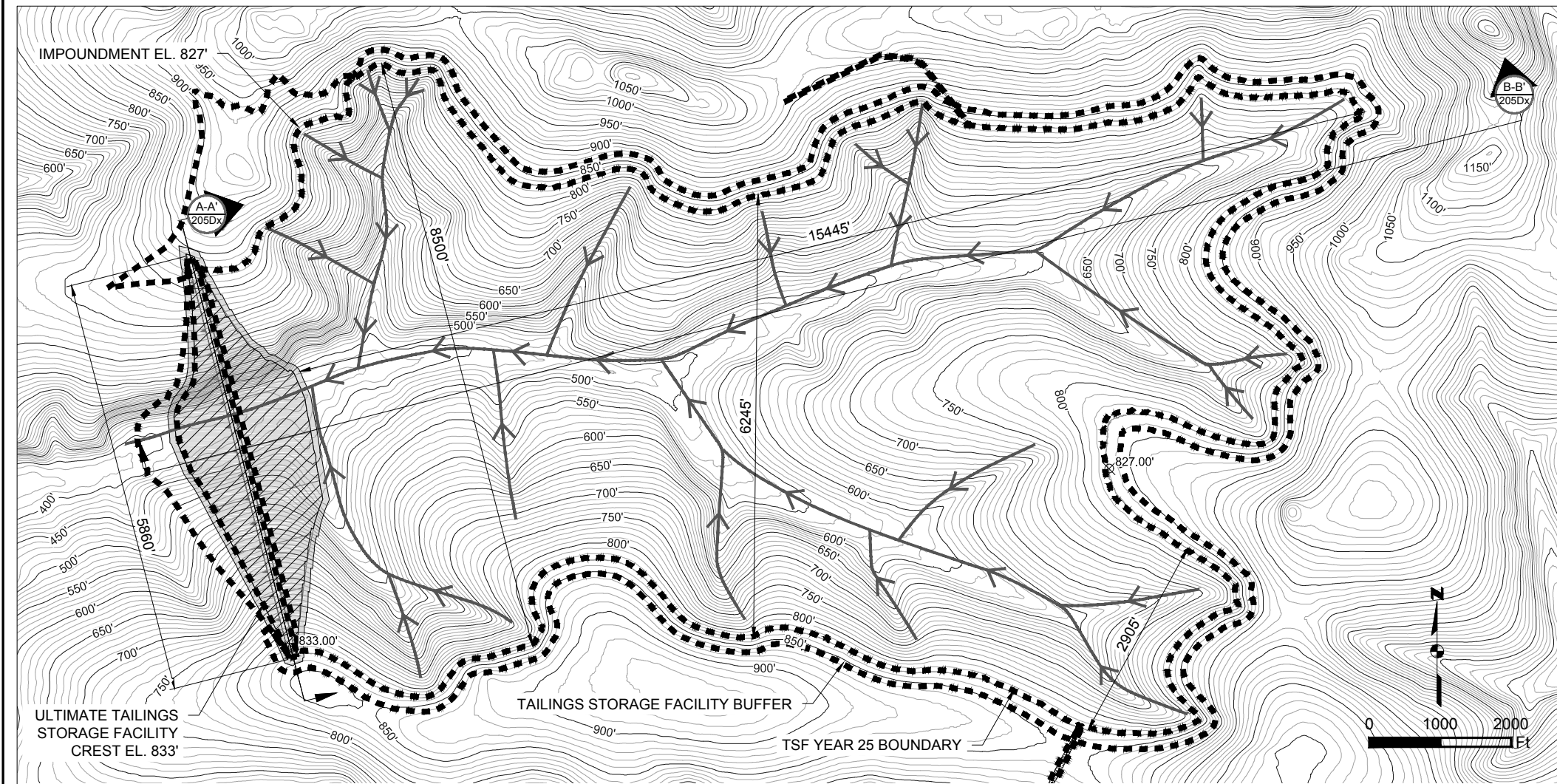
DRAWING TITLE:
**SOUTH OVERBURDEN STOCKPILE 2033
DETAIL**

FIGURE NO.
MA-204D14

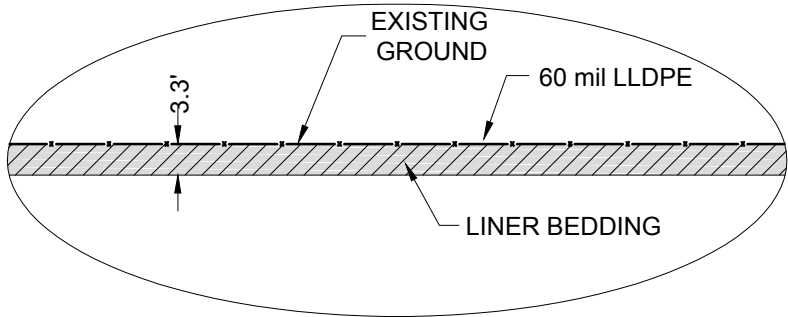
FILE NO.
POA-1995-120



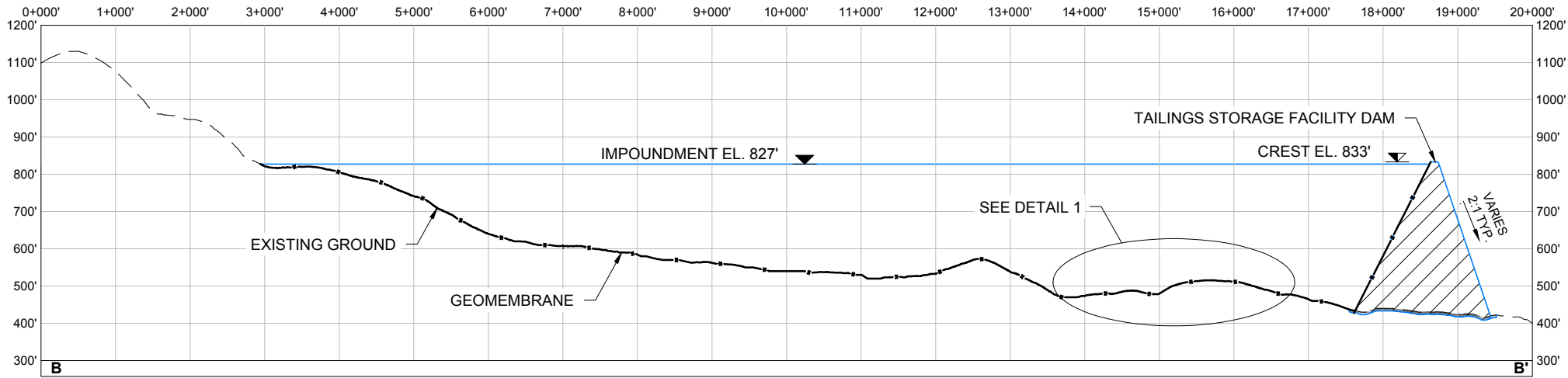
Proposed Jungjuk Road 10' Contour 100' Contour Stream Flow Direction Cross Section Project Disturbance This Sheet Proposed Disturbance (Other Sheets) Unnamed River/Stream Named River/Stream Figure Detail Reference	Associated Engineering Drawings 07501,500 Feet	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,500 feet DATE: 10/5/2015	DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP FIGURE NO. MA-205C FILE NO. POA-1995-120



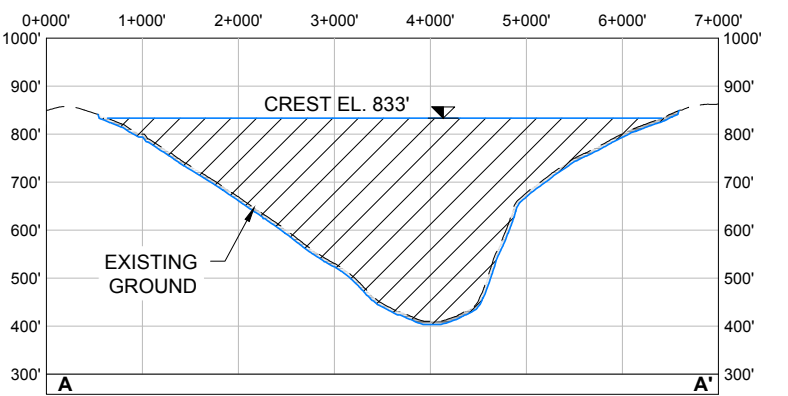
TSF YEAR 25 BOUNDARY PLAN
SCALE 1" = 2000'



TYPICAL DETAIL
N.T.S.

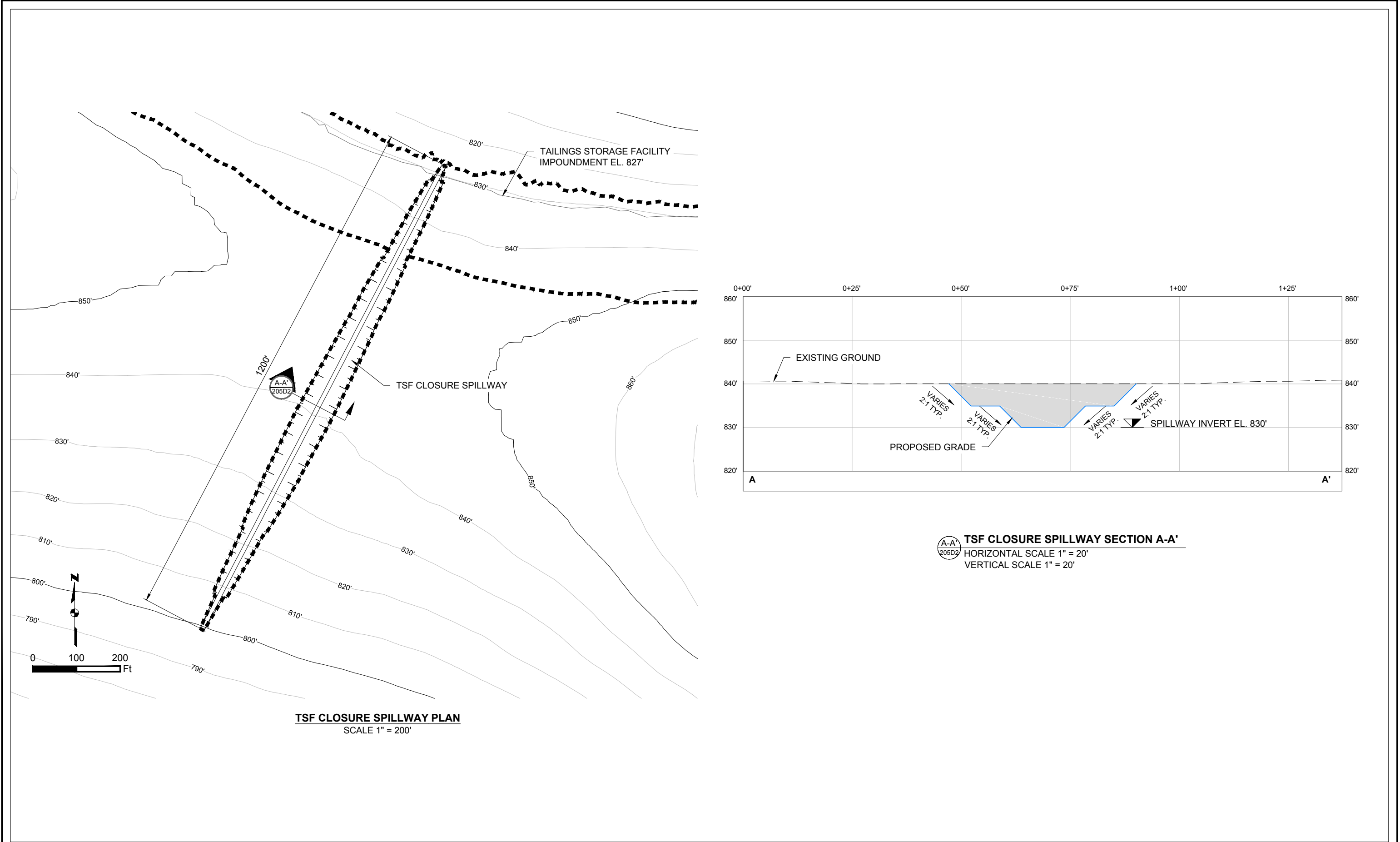


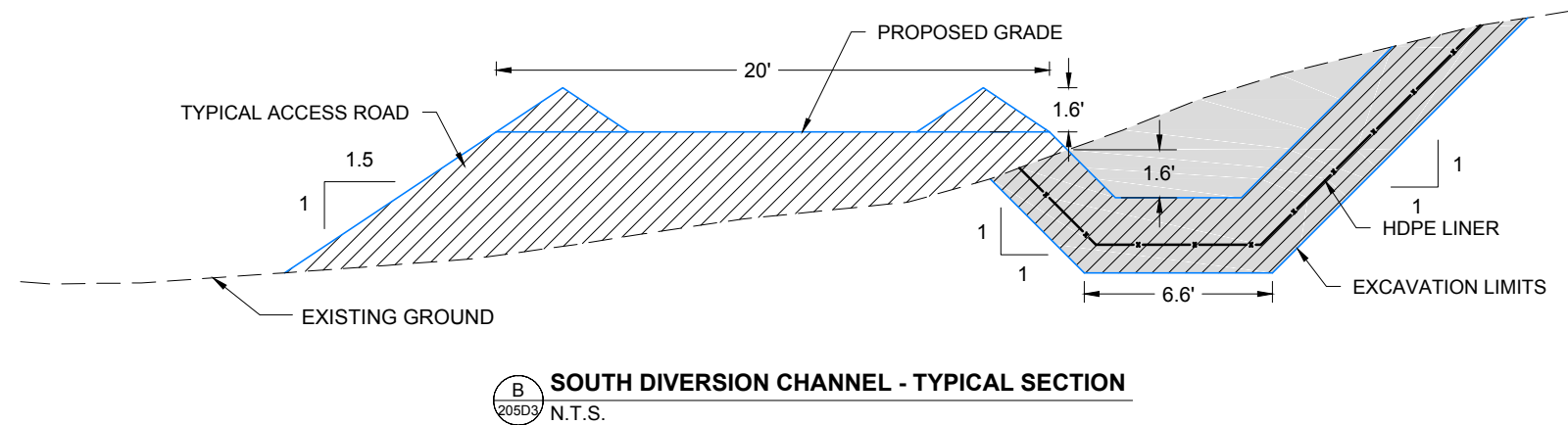
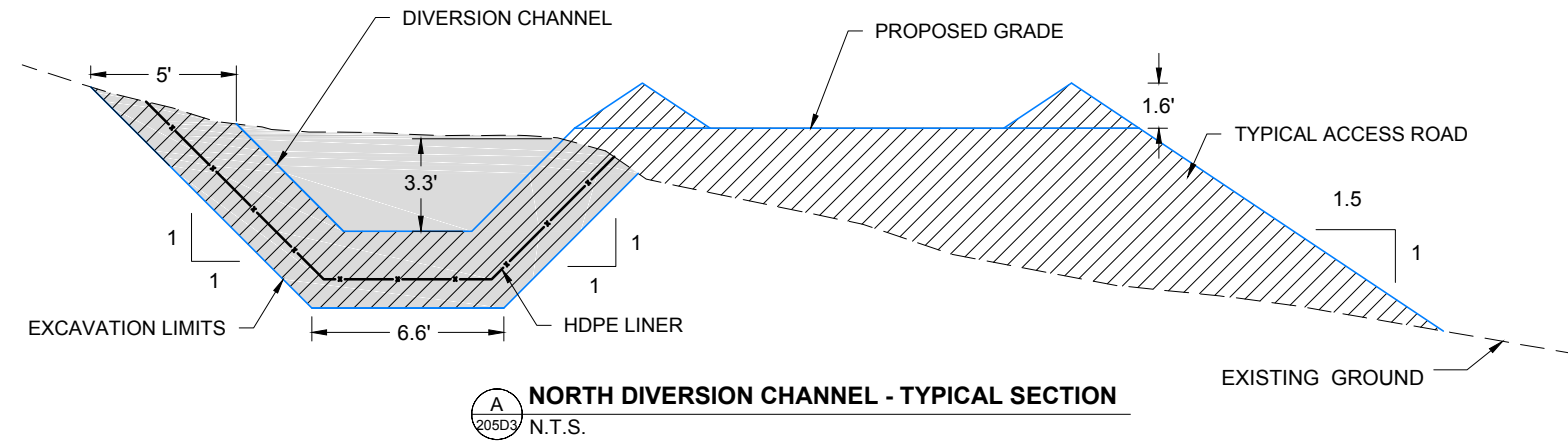
A-A' TSF YEAR 25 BOUNDARY SECTION A-A'
HORIZONTAL SCALE 1" = 2000'
VERTICAL SCALE 1" = 400'



B-B' TSF YEAR 25 BOUNDARY SECTION B-B'
HORIZONTAL SCALE 1" = 2000'
VERTICAL SCALE 1" = 400'

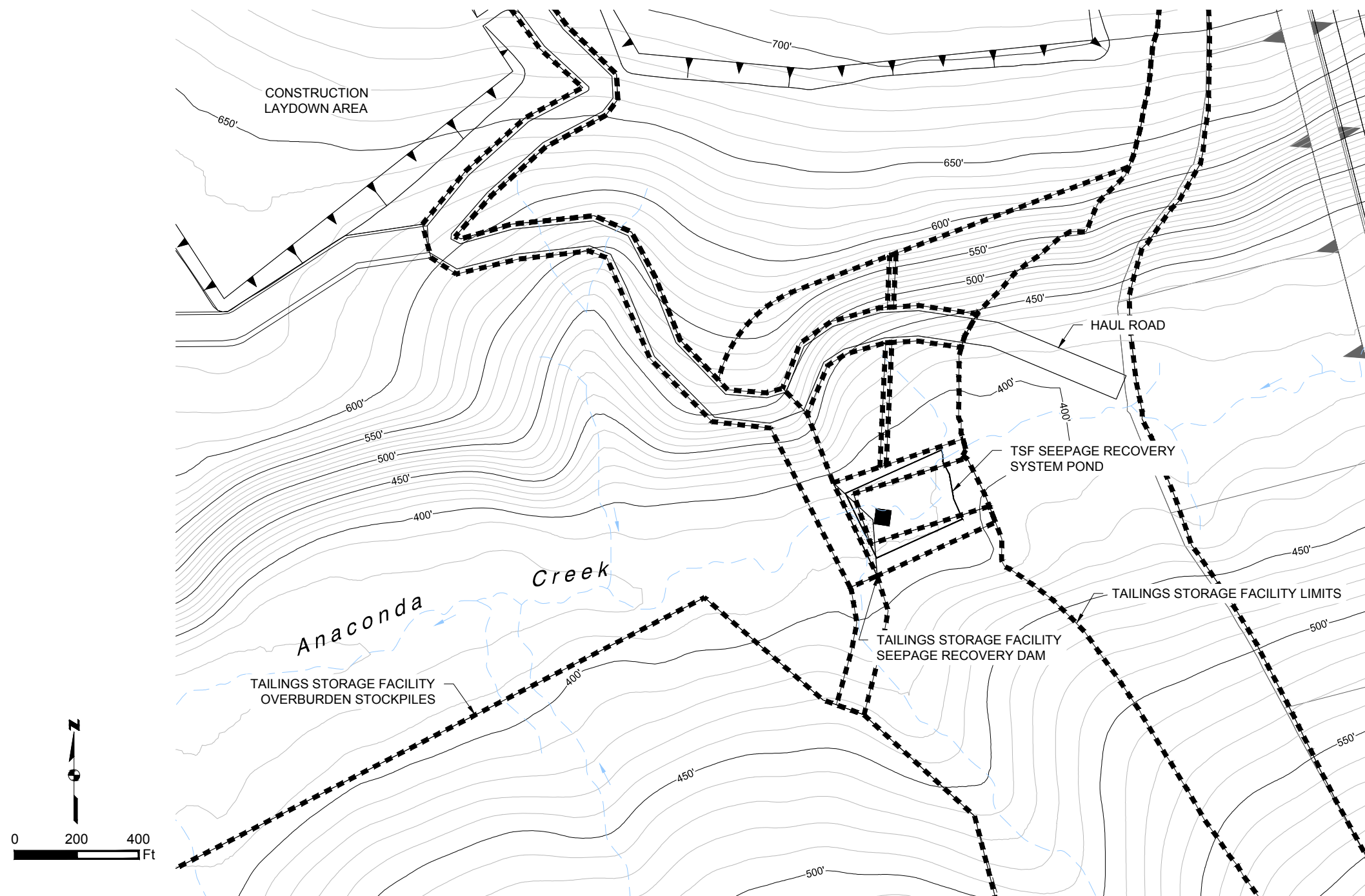
Existing 10' Contours Existing 50' Contours Fill Area Cut Area Existing Ground Proposed Grade Project Disturbance Geomembrane Diversion Channel			Associated Engineering Drawings ULTIMATE_TAILINGS_STORAGE_FACILITY.dwg (BGC) JUN 2012		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: AS SHOWN		DRAWING TITLE: TSF YEAR 25 BOUNDARY DETAIL FIGURE NO. MA-205D1 FILE NO. POA-1995-120		DATE: 9/11/2015	
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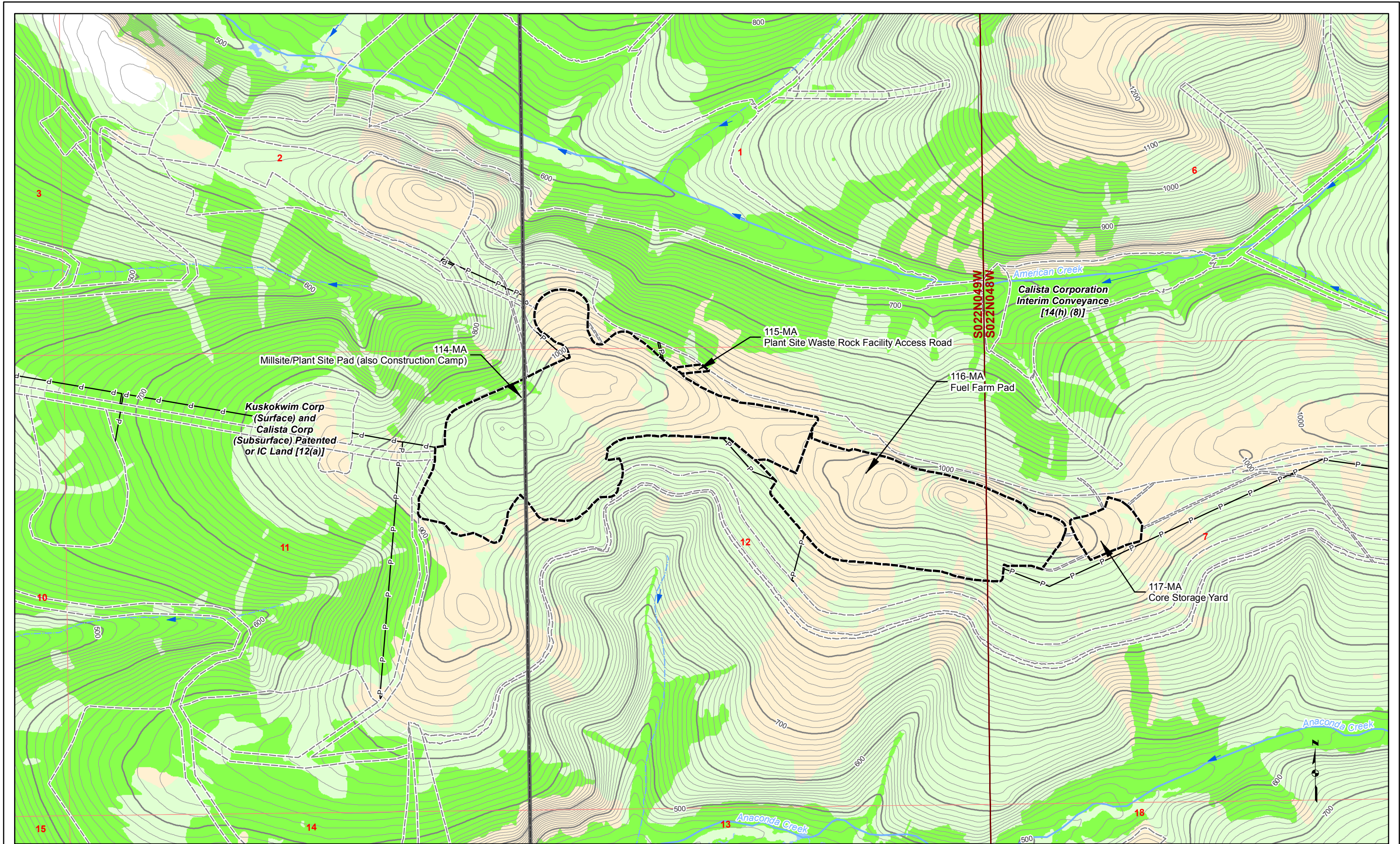
- Fill Area
- HDPE Liner (40mil)
- Cut Area
- Existing Ground
- Proposed Grade

Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
TAILINGS_STORAGE_FACILITY_DIVERSION_CHANNELS.dwg (BGC) JUN 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TSF DRAINAGE - STORMWATER DIVERSION DETAIL	
SCALE: AS SHOWN		DATE: 9/11/2015		FIGURE NO. TA-205D3	FILE NO. POA-1995-120

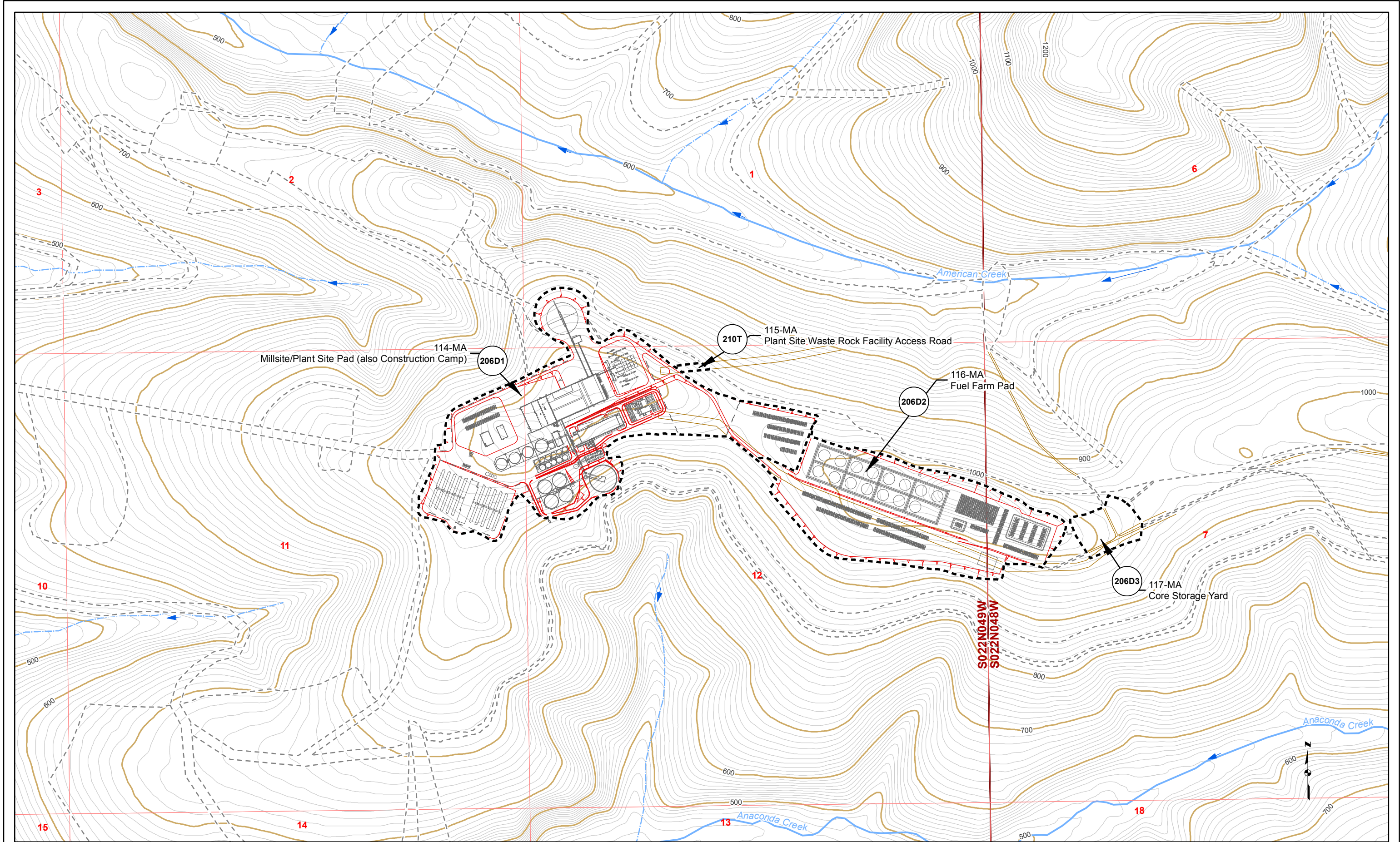


TSF SEEPAGE RECOVERY SYSTEM POND PLAN
SCALE 1" = 400'

Existing 10' Contours Existing 50' Contours	Project Disturbance	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
		M19C-SP-SE_01.dwg (BAKER) SEP 2014		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TSF SEEPAGE RECOVERY SYSTEM POND DETAIL	
				NAD 1983 UTM Zone 4N			
				SCALE: AS SHOWN		DATE: 9/28/2015	



Land Status Road Milepost Project Disturbance Limit	Mosaic Upland Wetlands	Contours 100' Contour 10' Contour Powerline Stream Flow Direction	Proposed Jungjuk Road Unnamed River/Stream Named River/Stream	Associated Engineering Drawings 0 500 1,000 Feet	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,000 feet DATE: 10/5/2015	DRAWING TITLE: PLAN VIEW MINE AREA WETLANDS MAP FIGURE NO. MA-206A FILE NO. POA-1995-120
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Proposed Jungjuk Road Road Milepost 10' Contour 100' Contour Stream Flow Direction Cross Section Project Disturbance This Sheet Proposed Disturbance (Other Sheets) Unnamed River/Stream Named River/Stream Figure Detail Reference	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP	
	0 500 1,000 Feet		NAD 1983 UTM Zone 4N		FIGURE NO. MA-206B	
			SCALE: 1 inch = 1,000 feet		DATE: 10/5/2015	

FILE NO. **POA-1995-120**

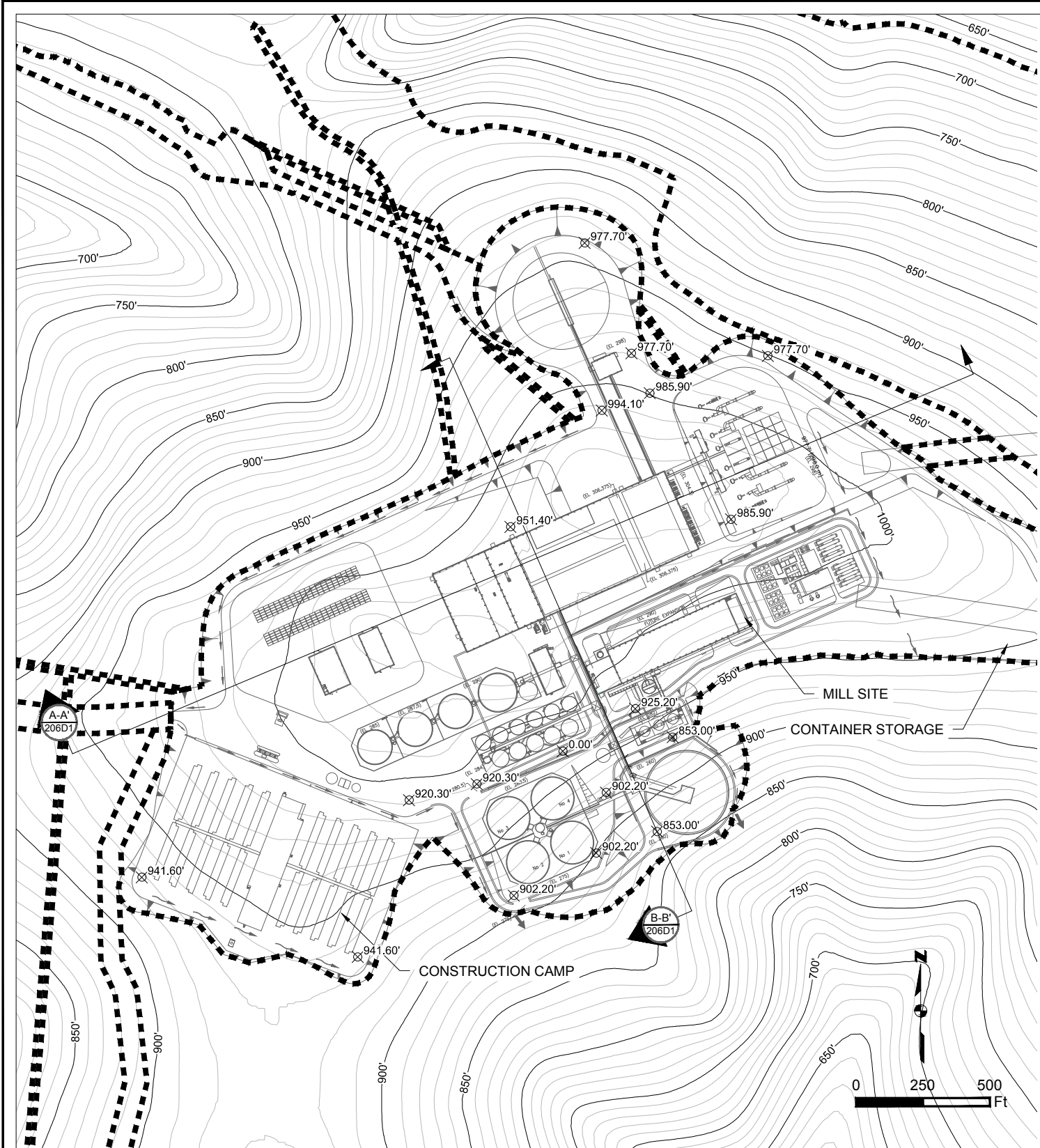


- | | | | |
|-----------------------|-------------------------------------|--------------------------------|----------------------|
| Proposed Jungjuk Road | 10' Contour | Cross Section | Unnamed River/Stream |
| Road Milepost | 100' Contour | Project Disturbance This Sheet | Named River/Stream |
| Stream Flow Direction | Proposed Disturbance (Other Sheets) | Figure Detail Reference | |

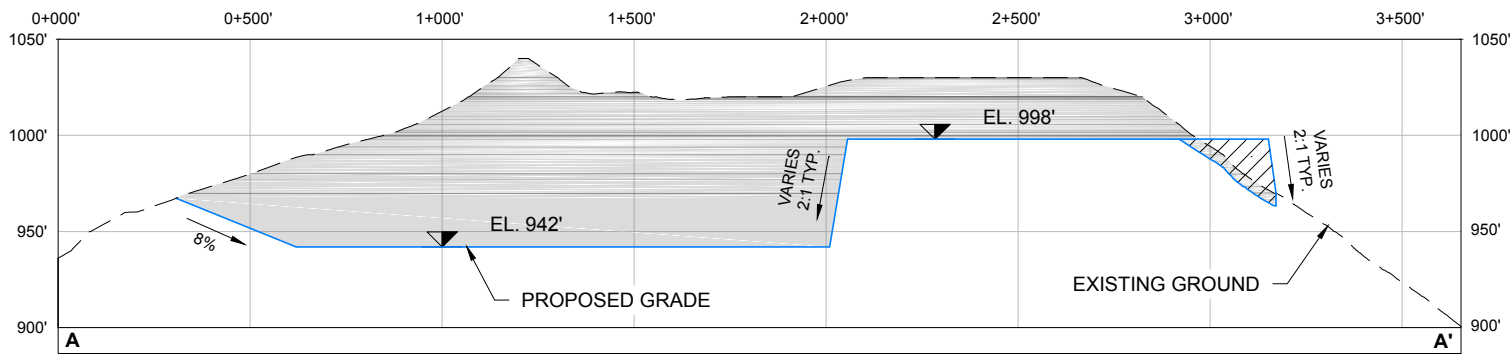
Associated Engineering Drawings	
0 500 1,000 Feet	

DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: 1 inch = 1,000 feet	DATE: 10/5/2015

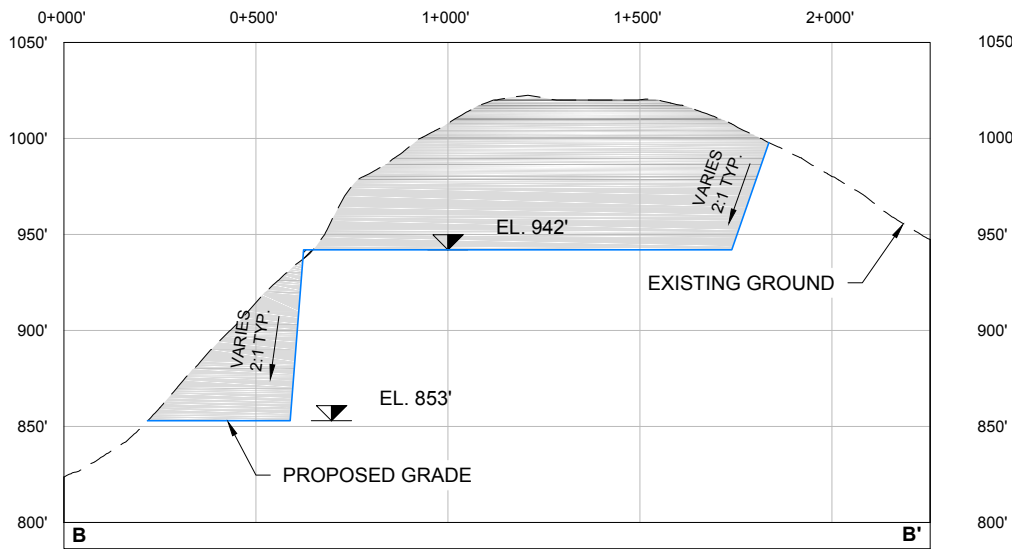
DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP	
FIGURE NO. MA-206C	FILE NO. POA-1995-120



MILLSITE/PLANT SITE PAD AND CONSTRUCTION CAMP PLAN
SCALE 1" = 500'



MILLSITE/PLANT SITE PAD AND CONSTRUCTION CAMP SECTION A-A'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'



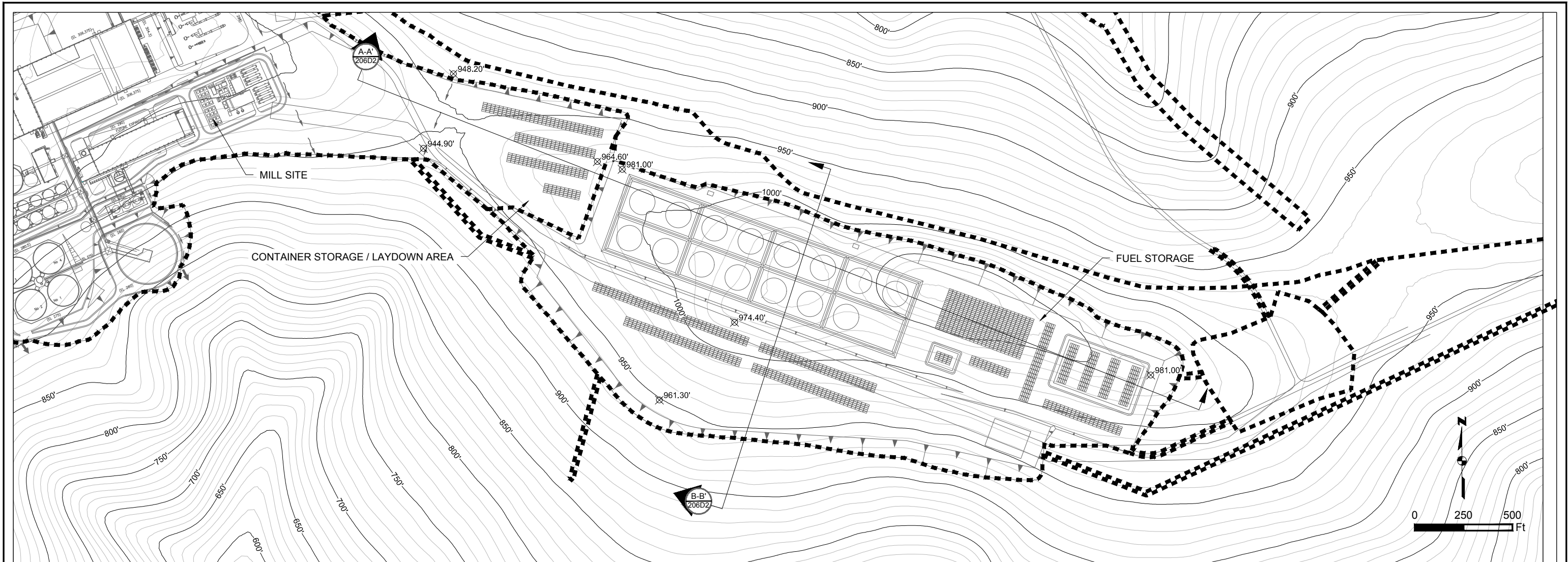
MILLSITE/PLANT SITE PAD AND CONSTRUCTION CAMP SECTION B-B'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'

- | | | |
|-----------------------|-----------------|---------------------|
| Existing 10' Contours | Fill Area | Project Disturbance |
| Existing 50' Contours | Cut Area | |
| | Existing Ground | |
| | Proposed Grade | |

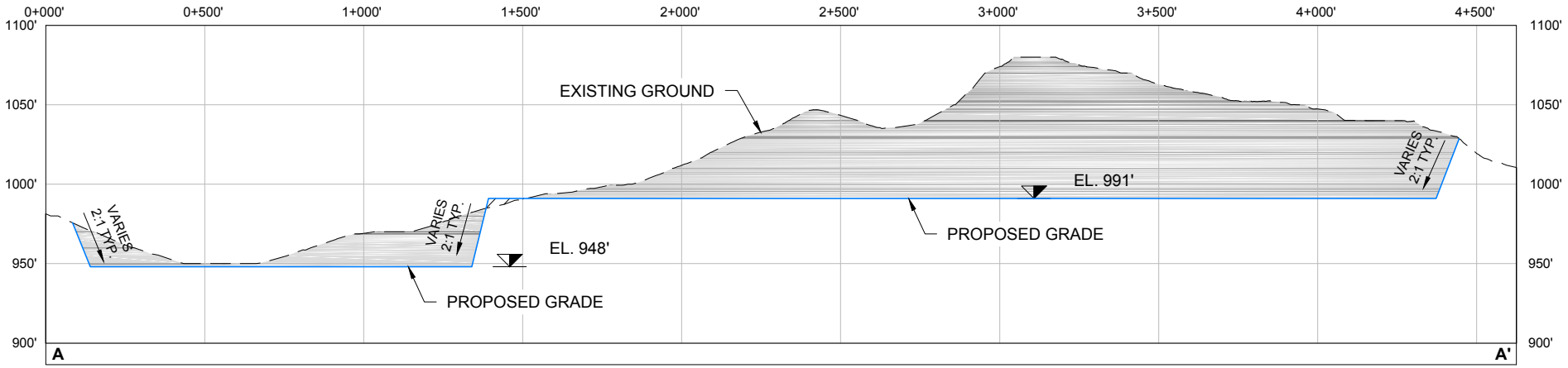
Associated Engineering Drawings
MILL_SITE_AND_CONSTRUCTION_CAMP.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN
DATE: 9/11/2015

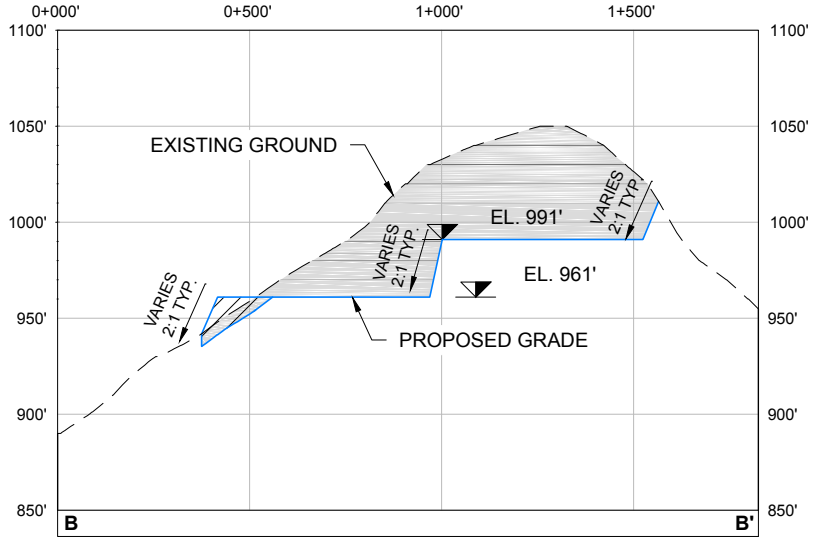
DRAWING TITLE:
MILLSITE/PLANT SITE PAD AND CONSTRUCTION CAMP DETAIL
FIGURE NO.: **MA-206D1**
FILE NO.: **POA-1995-120**



FUEL FARM PAD PLAN
SCALE 1" = 500'

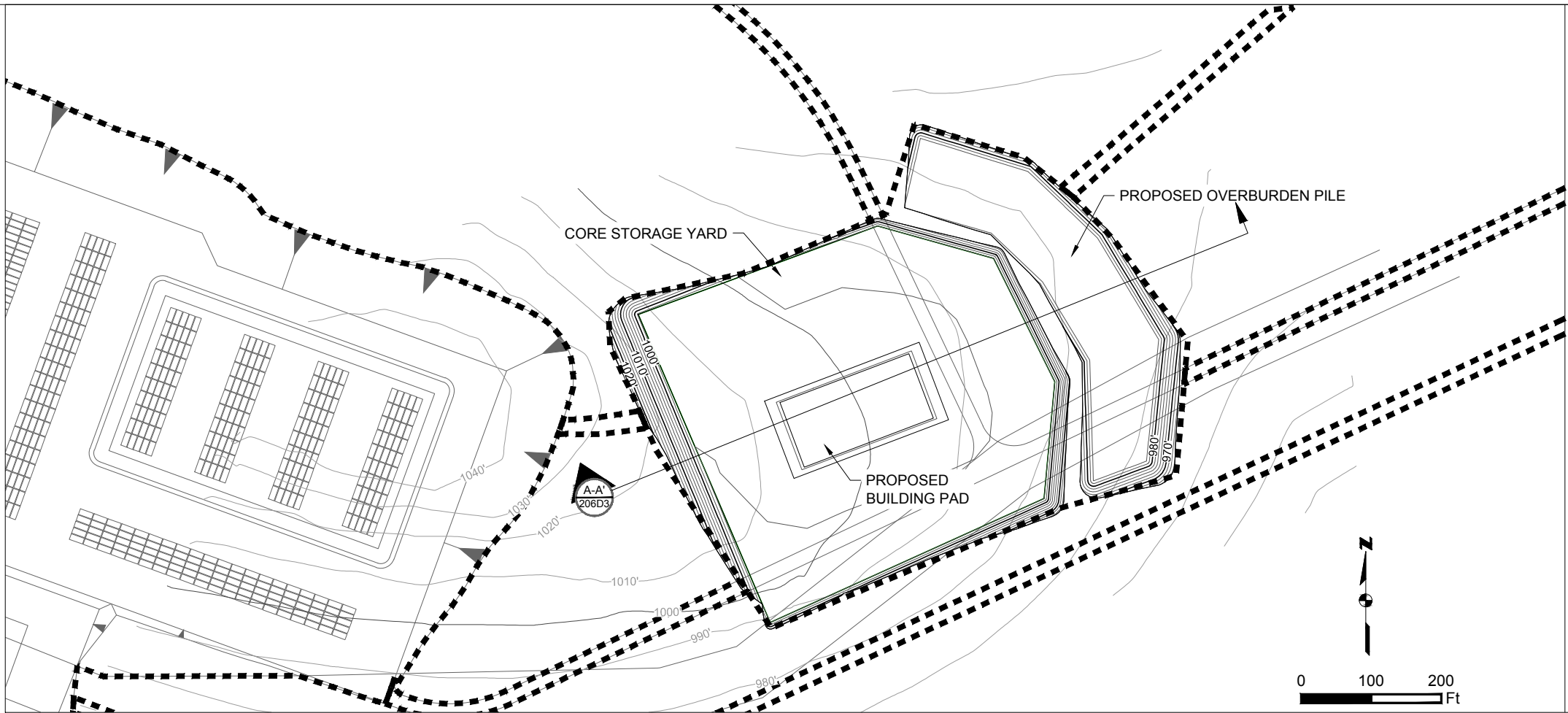


FUEL FARM PAD SECTION A-A'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'

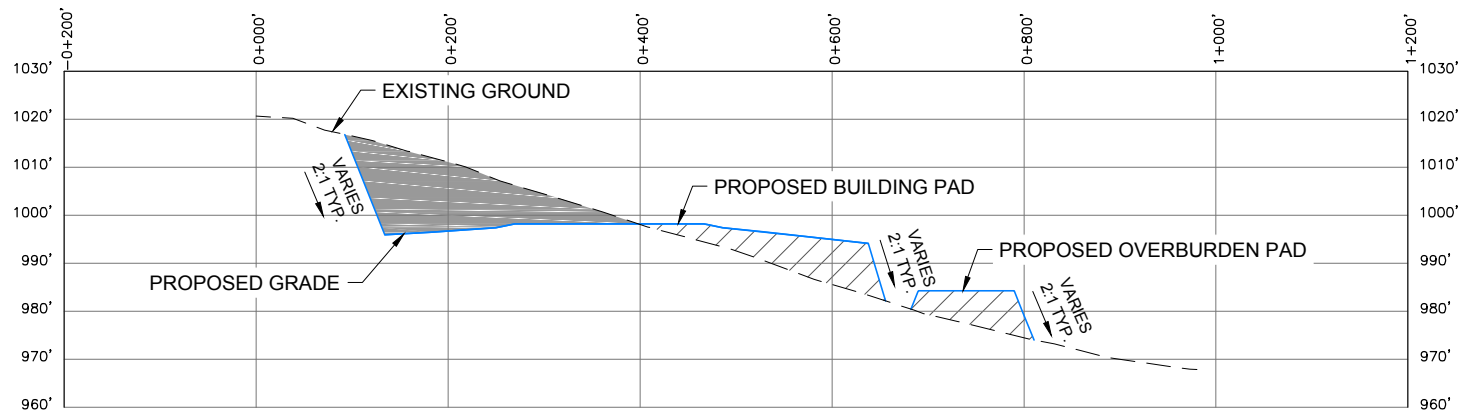


FUEL FARM PAD SECTION B-B'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'

Existing 10' Contours Existing 50' Contours	Fill Area Cut Area Existing Ground Proposed Grade	Project Disturbance	Associated Engineering Drawings FUEL_STORAGE.dwg (BGC) JUNE 2012	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503	DRAWING TITLE: FUEL FARM PAD DETAIL
			NAD 1983 UTM Zone 4N	FIGURE NO. MA-206D2	FILE NO. POA-1995-120
SCALE: AS SHOWN	DATE: 9/11/2015				



CORE STORAGE YARD PLAN VIEW
SCALE 1" = 200'



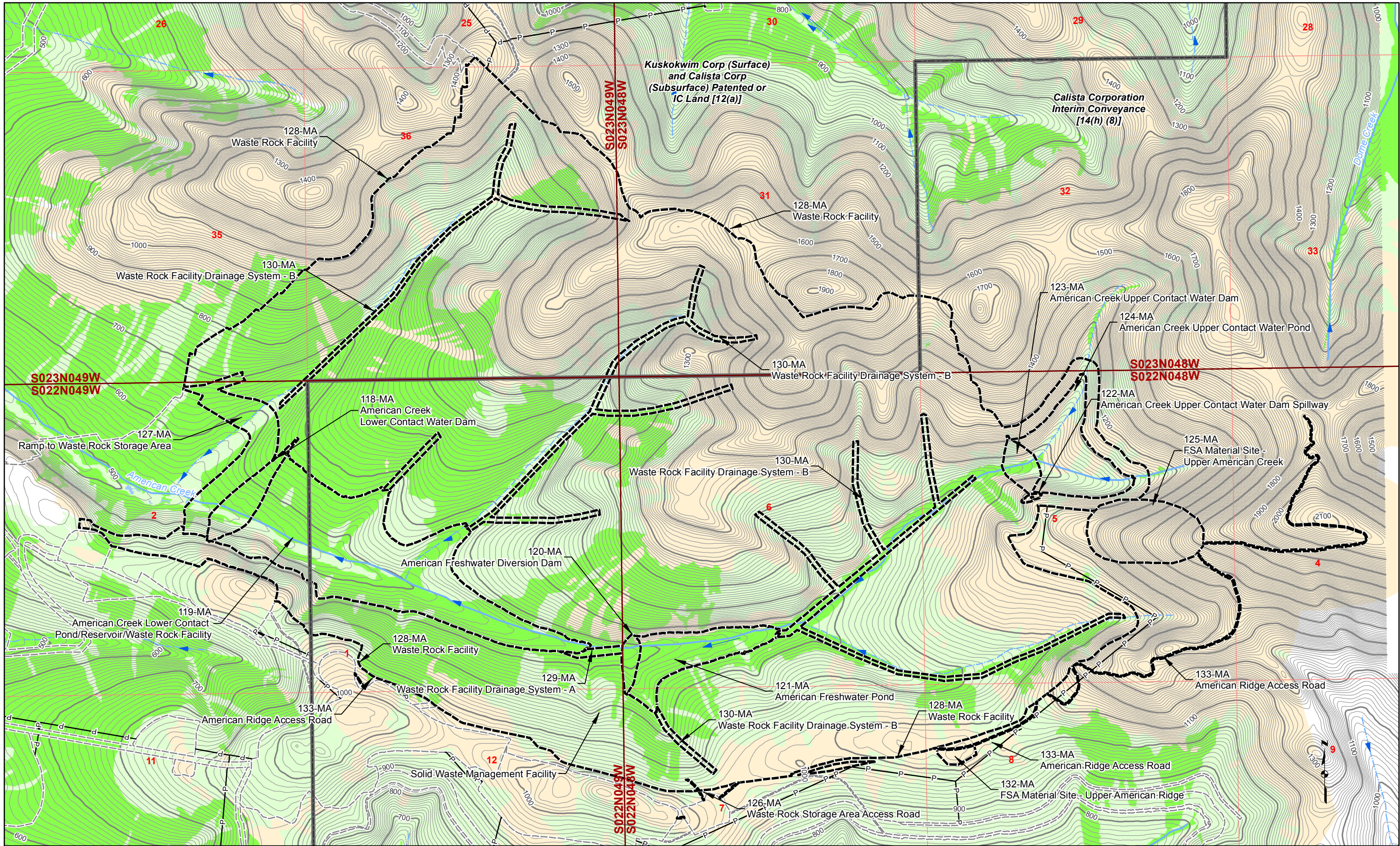
CORE STORAGE YARD SECTION A-A'
HORIZONTAL SCALE 1" = 200'
VERTICAL SCALE 1" = 40'

	Existing 10' Contours		Fill Area		Project Disturbance
	Existing 50' Contours		Cut Area		Exisitng Ground
	Proposed 2' Contours		Proposed Grade		
	Proposed 10' Contours				

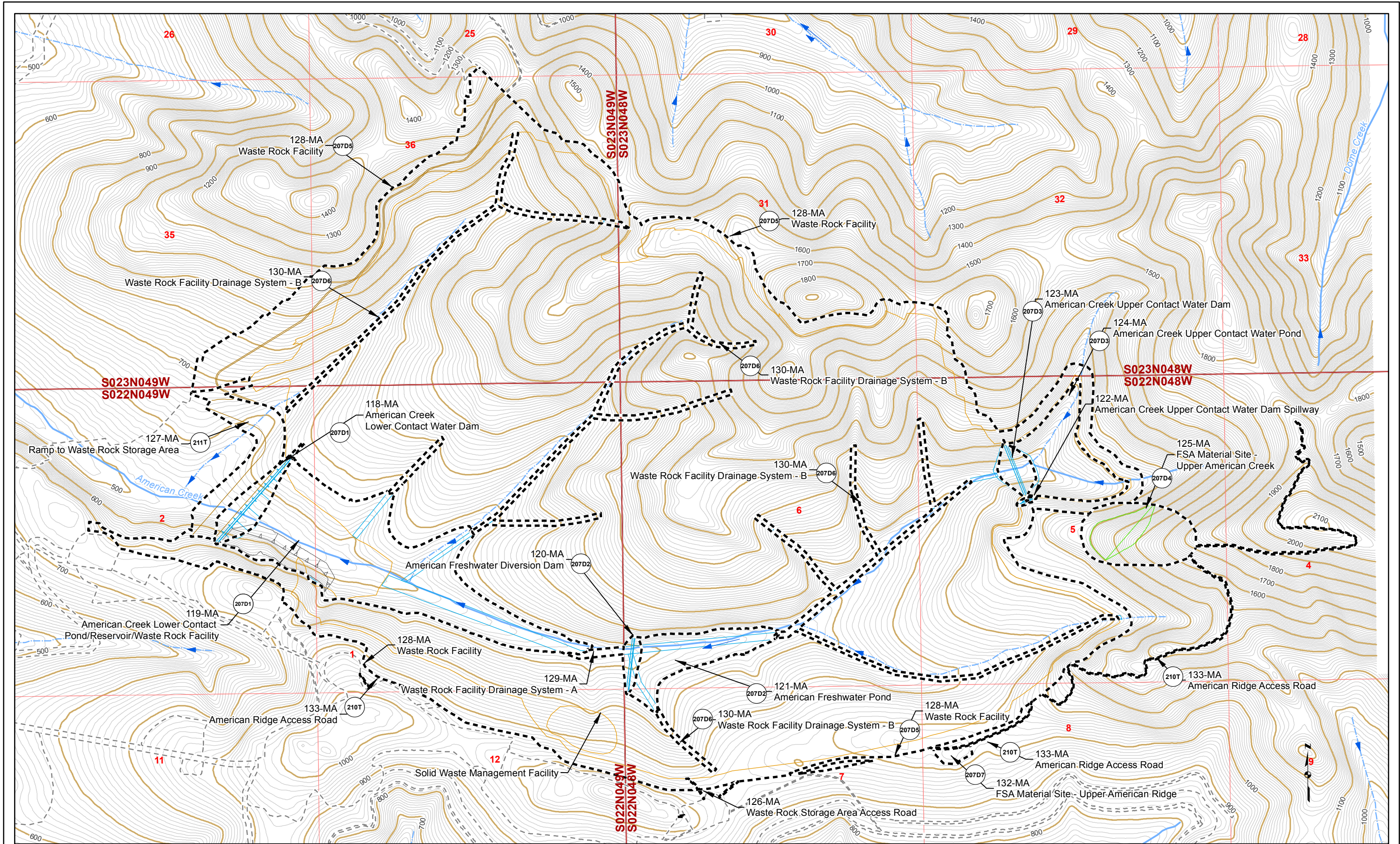
Associated Engineering Drawings
Core_Storage_Pad_DRAFT_design_5.dwg (RECON) NOV 2011

DONLIN GOLD PROJECT	
APPLICANT: Donlin Gold, LLC	
4720 Business Park Blvd., Suite G-25	
Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE:	AS SHOWN
DATE:	9/11/2015

DRAWING TITLE:	
CORE STORAGE YARD DETAIL	
FIGURE NO.	FILE NO.
MA-206D3	POA-1995-120

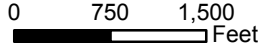


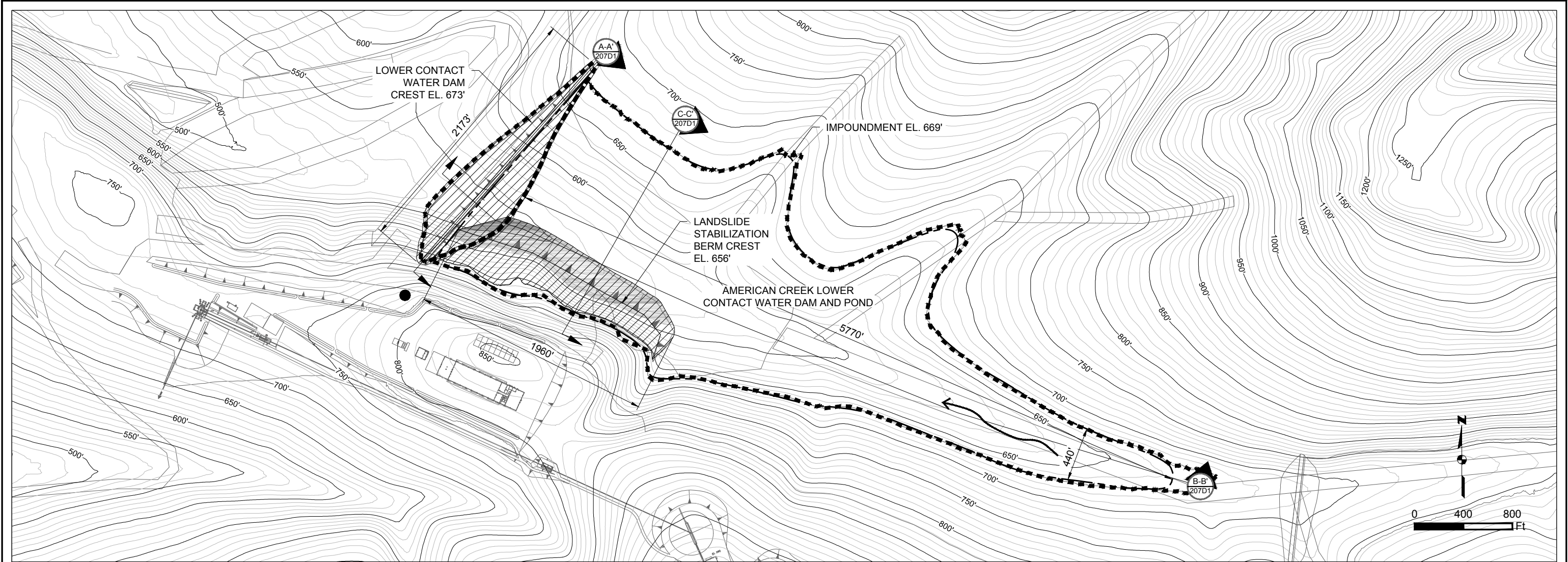
Land Status Road Milepost Project Disturbance Limit Mosaic Upland Wetlands 100' Contour 10' Contour Powerline Stream Flow Direction Proposed Jungjuk Road Unnamed River/Stream Named River/Stream	Associated Engineering Drawings 0 750 1,500 Feet	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,500 feet DATE: 10/5/2015	DRAWING TITLE: PLAN VIEW MINE AREA WETLANDS MAP FIGURE NO. MA-207A FILE NO. POA-1995-120
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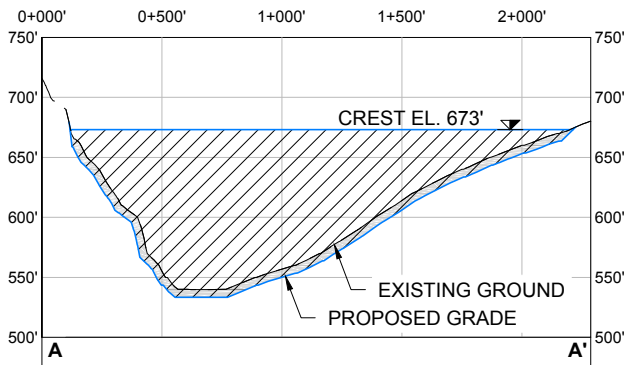
Proposed Jungjuk Road 10' Contour 100' Contour Stream Flow Direction Road Milepost Cross Section Project Disturbance This Sheet Proposed Disturbance (Other Sheets) Unnamed River/Stream Named River/Stream Figure Detail Reference	Associated Engineering Drawings 0 750 1,500 Feet	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 1,500 feet DATE: 10/5/2015	DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP FIGURE NO. MA-207B FILE NO. POA-1995-120
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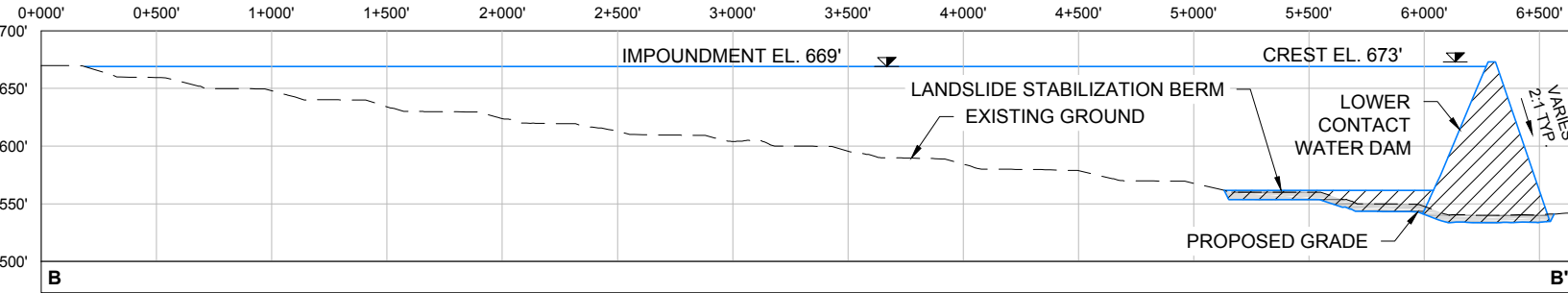
 Proposed Jungjuk Road  Road Milepost	 10' Contour  100' Contour  Stream Flow Direction	 Cross Section  Project Disturbance This Sheet  Proposed Disturbance (Other Sheets)	 Unnamed River/Stream  Named River/Stream  Figure Detail Reference	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW MINE AREA ENGINEERING MAP	
						NAD 1983 UTM Zone 4N		FIGURE NO. MA-207C	FILE NO. POA-1995-120
				SCALE: 1 inch = 1,500 feet		DATE: 10/5/2015			



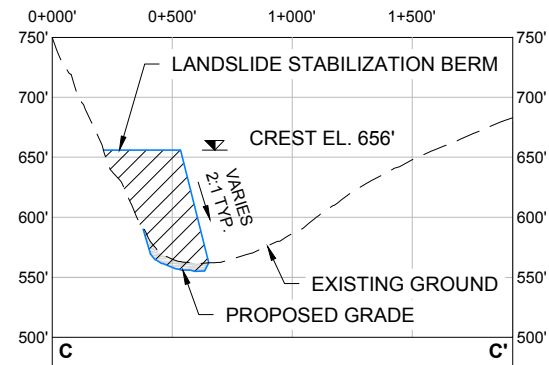
AMERICAN CREEK LOWER CONTACT WATER DAM AND POND PLAN
SCALE 1" = 800'



AMERICAN CREEK LOWER CONTACT WATER DAM AND POND SECTION A-A'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'



AMERICAN CREEK LOWER CONTACT WATER DAM AND POND SECTION B-B'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'



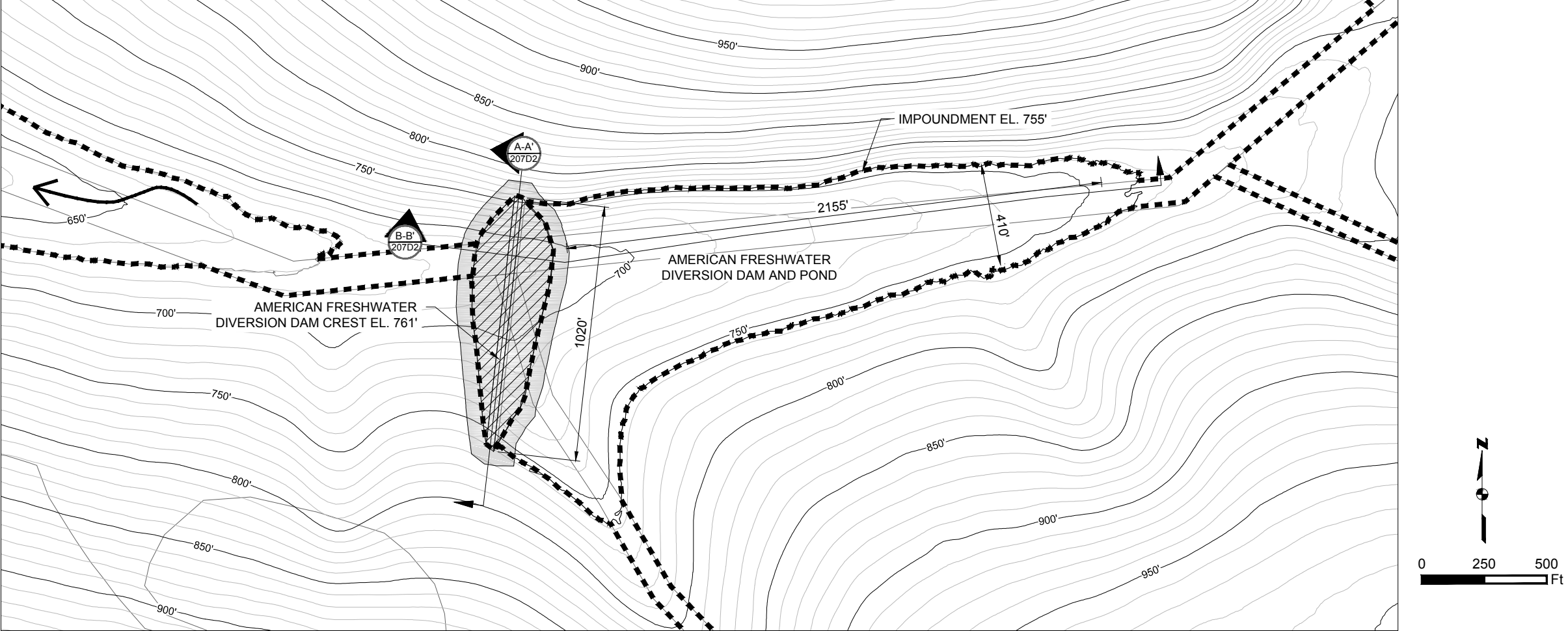
AMERICAN CREEK LOWER CONTACT WATER DAM AND POND SECTION C-C'
HORIZONTAL SCALE 1" = 800'
VERTICAL SCALE 1" = 160'

Existing 10' Contours	Fill Area	Project Disturbance
Existing 50' Contours	Cut Area	American Creek Drainage
	Existing Ground	
	Proposed Grade	

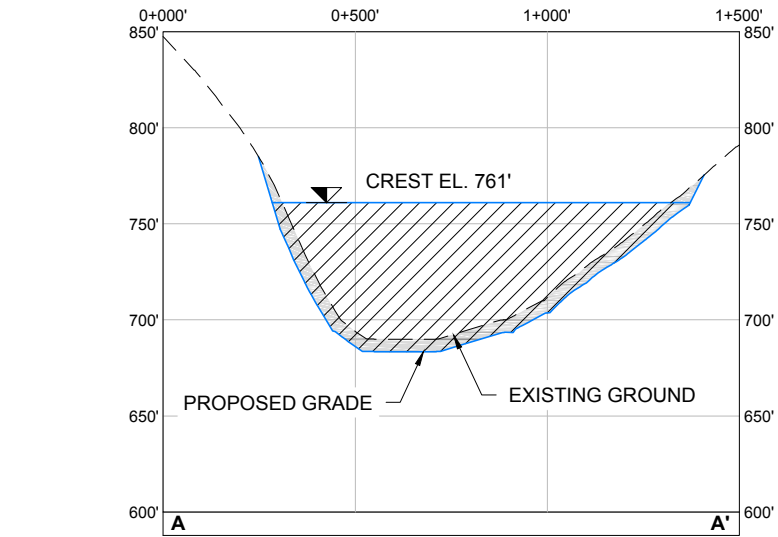
Associated Engineering Drawings
LOWER_CONTACT_WATER_DAM_AND_IMPOUNDMENT.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: AS SHOWN	DATE: 9/7/2015

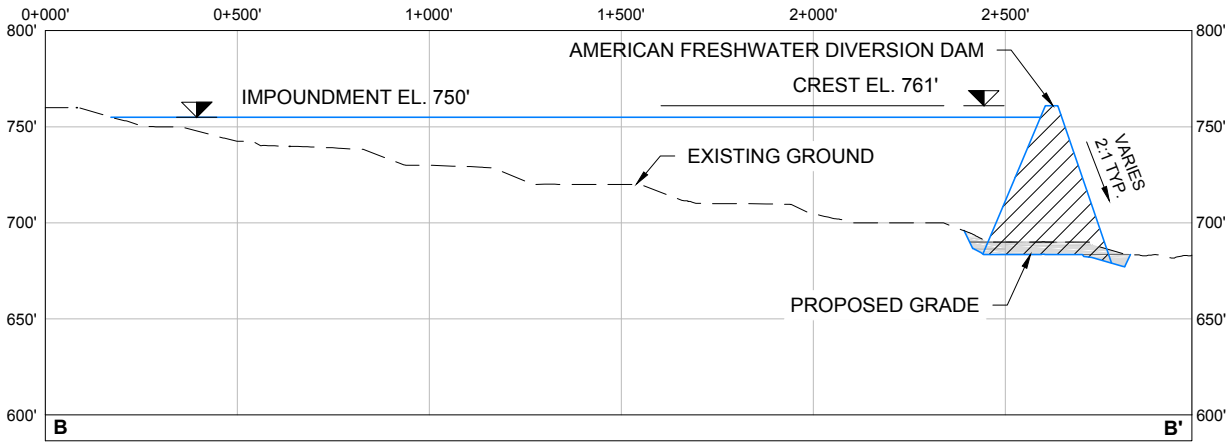
DRAWING TITLE: AMERICAN CREEK LOWER CONTACT WATER DAM AND POND DETAIL	
FIGURE NO. MA-207D1	FILE NO. POA-1995-120



AMERICAN FRESHWATER DIVERSION DAM AND POND PLAN
SCALE 1" = 500'



A-A' AMERICAN FRESHWATER DIVERSION DAM AND POND SECTION A-A'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'



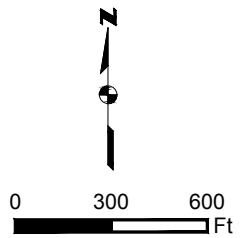
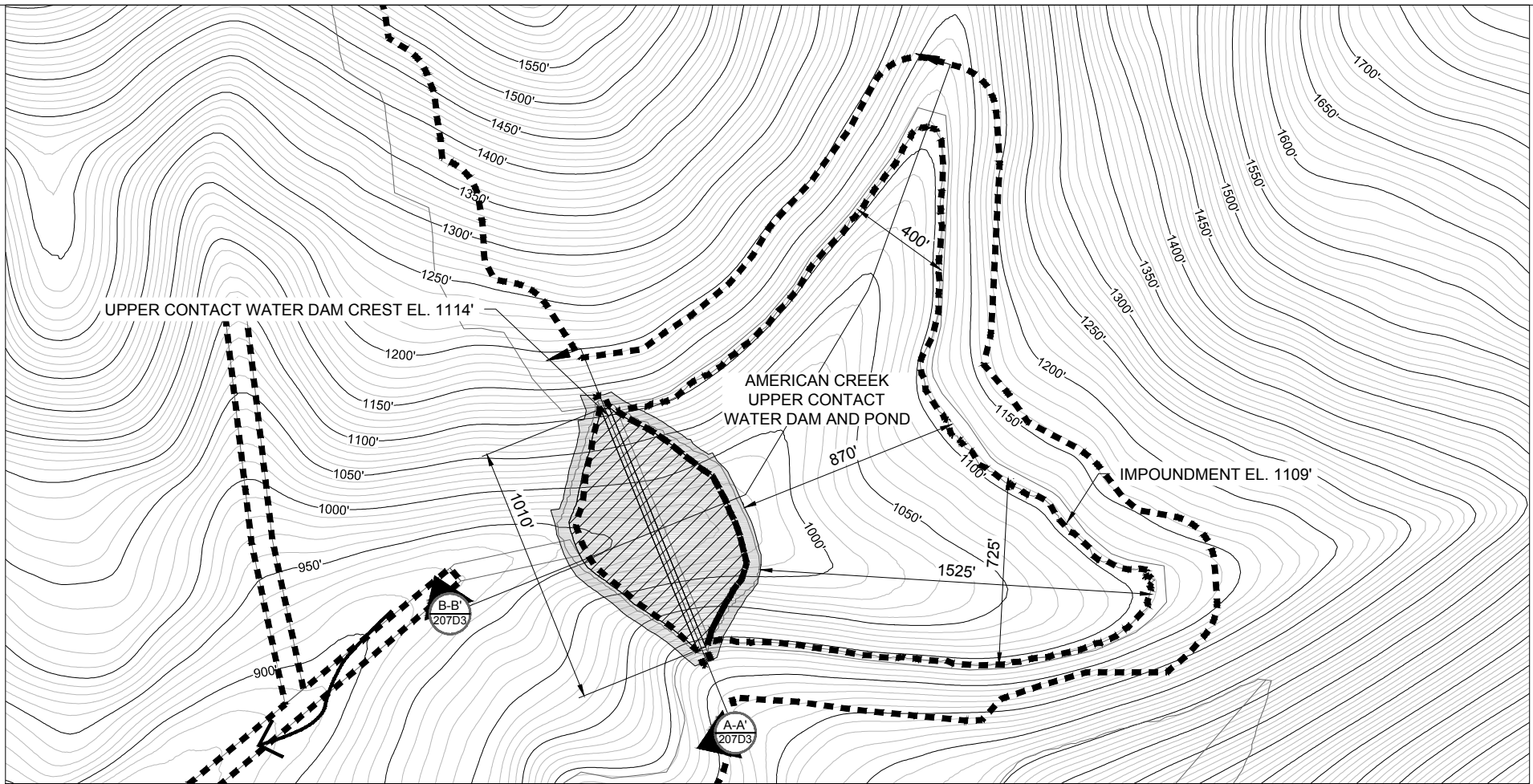
B-B' AMERICAN FRESHWATER DIVERSION DAM AND POND SECTION B-B'
HORIZONTAL SCALE 1" = 500'
VERTICAL SCALE 1" = 100'

Existing 10' Contours	Fill Area	Project Disturbance
Existing 50' Contours	Cut Area	American Creek Drainage
	Existing Ground	
	Proposed Grade	

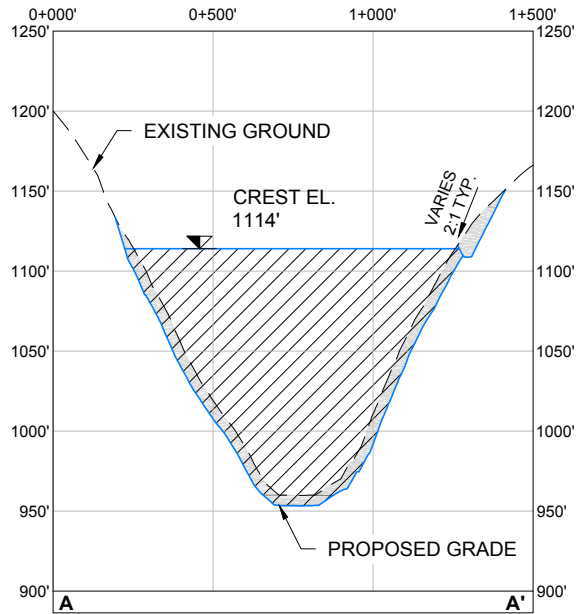
Associated Engineering Drawings
AMERICAN FRESHWATER DIVERSION DAM AND
IMPOUNDMENT.dwg (BGC) JUNE 2012

DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: AS SHOWN	DATE: 9/11/2015

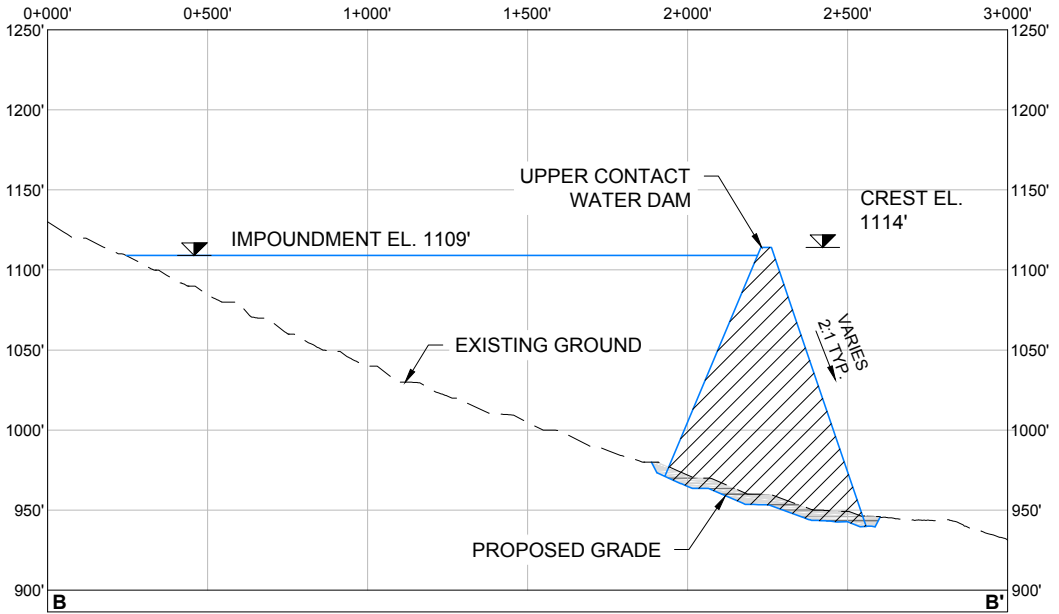
DRAWING TITLE: AMERICAN FRESHWATER DIVERSION DAM AND POND DETAIL	
FIGURE NO. MA-207D2	FILE NO. POA-1995-120



AMERICAN CREEK UPPER CONTACT WATER DAM AND POND PLAN
SCALE 1" = 600'



AMERICAN CREEK UPPER CONTACT WATER DAM AND POND SECTION A-A'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'



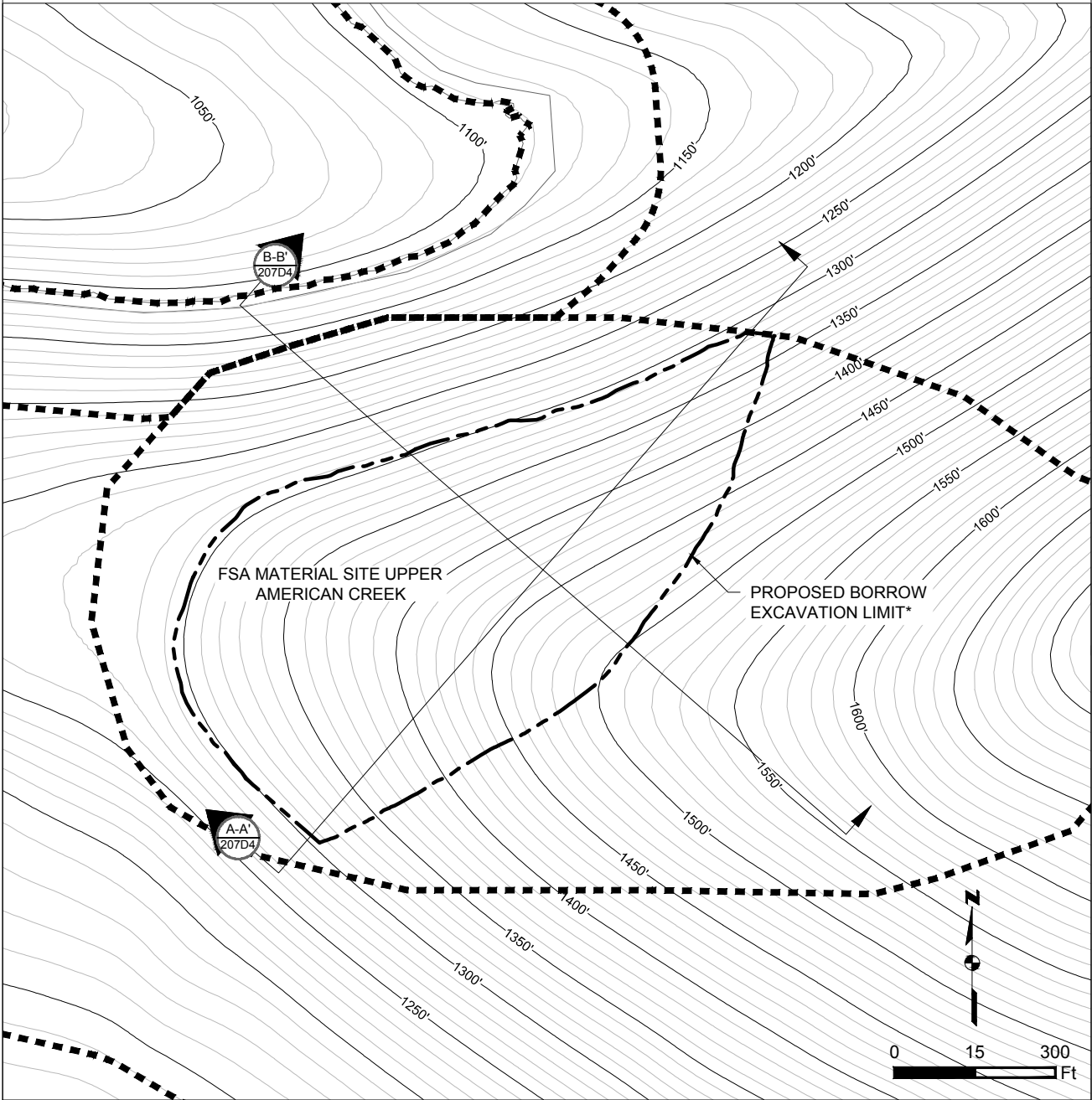
AMERICAN CREEK UPPER CONTACT WATER DAM AND POND SECTION B-B'
HORIZONTAL SCALE 1" = 600'
VERTICAL SCALE 1" = 120'

- | | | |
|-----------------------|-----------------|-------------------------|
| Existing 10' Contours | Fill Area | Project Disturbance |
| Existing 50' Contours | Cut Area | American Creek Drainage |
| | Existing Ground | |
| | Proposed Grade | |

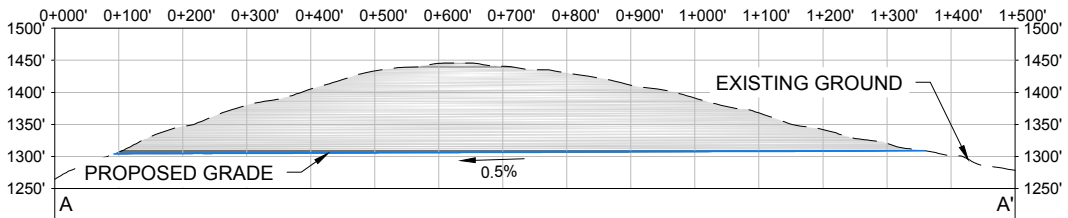
Associated Engineering Drawings
UPPER_CONTACT_WATER_DAM_AND_IMPOUNDMENT.dwg (BGC)
JUNE 2012

DONLIN GOLD PROJECT
APPLICANT: Donlin Gold, LLC
4720 Business Park Blvd., Suite G-25
Anchorage, Alaska 99503
NAD 1983 UTM Zone 4N
SCALE: AS SHOWN
DATE: 9/11/2015

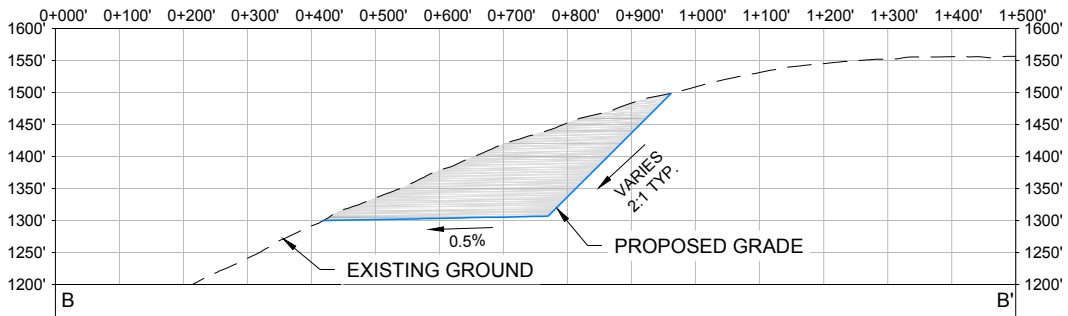
DRAWING TITLE:
AMERICAN CREEK UPPER CONTACT WATER DAM AND POND DETAIL
FIGURE NO. **MA-207D3**
FILE NO. **POA-1995-120**



FSA MATERIAL SITE UPPER AMERICAN CREEK PLAN
SCALE 1" = 300'



(A-A') FSA MATERIAL SITE UPPER AMERICAN CREEK SECTION A-A'
HORIZONTAL SCALE 1" = 300'
VERTICAL SCALE 1" = 60'



(B-B') FSA MATERIAL SITE UPPER AMERICAN CREEK SECTION B-B'
HORIZONTAL SCALE 1" = 300'
VERTICAL SCALE 1" = 60'

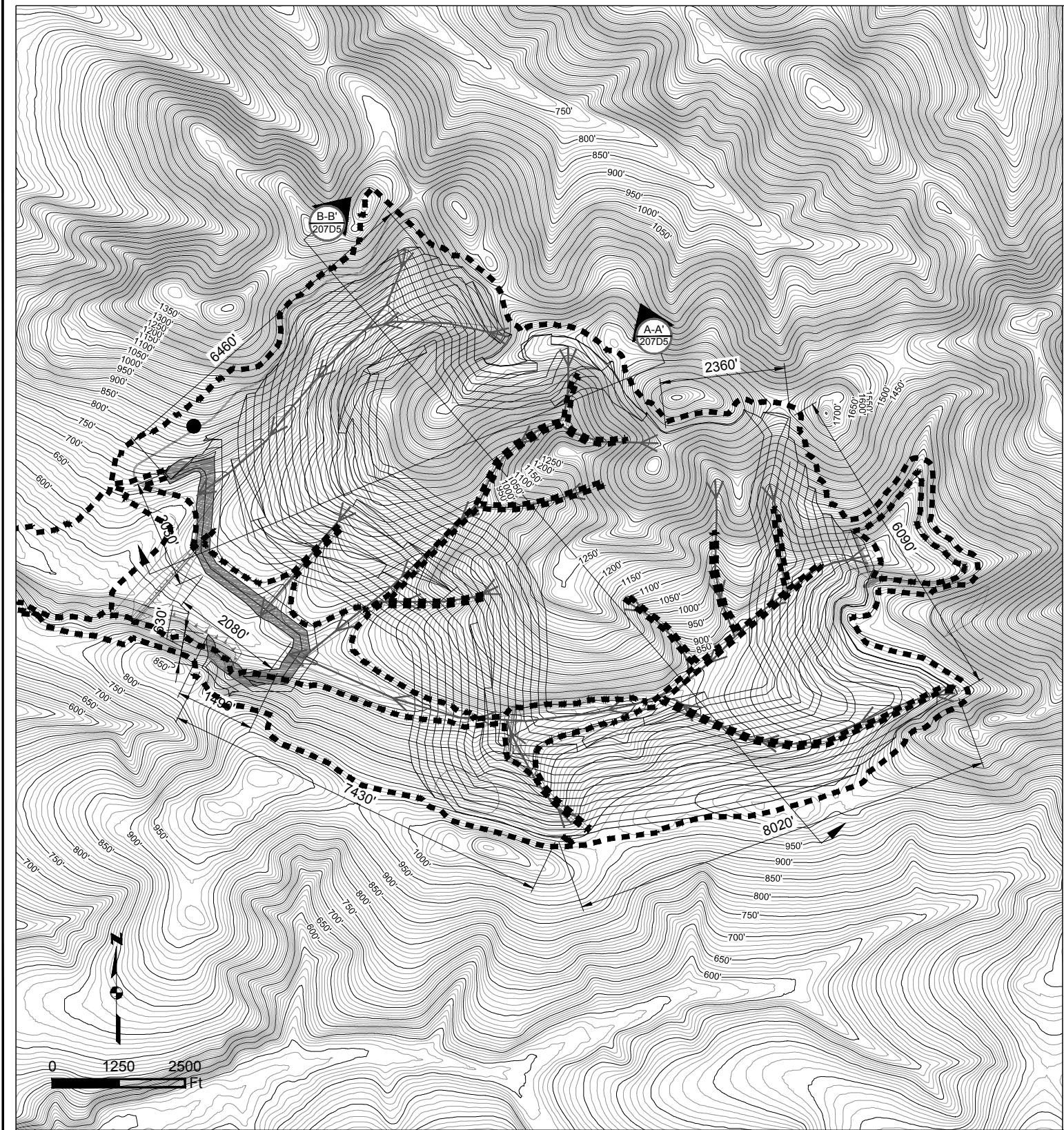
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|-------------------------|-------------------|--------------------------|
| — Existing 10' Contours | Fill Area | Project Disturbance |
| — Existing 50' Contours | Cut Area | Borrow Excavation Limit* |
| | — Existing Ground | |
| | Proposed Grade | |

NOTE:
* BORROW LIMIT SUBJECT TO CHANGE PENDING FURTHER GEOTECHNICAL INVESTIGATION

Associated Engineering Drawings
UPPER_CONTACT_WATER_DAM_QUARRY.dwg (BGC) JUNE 2012

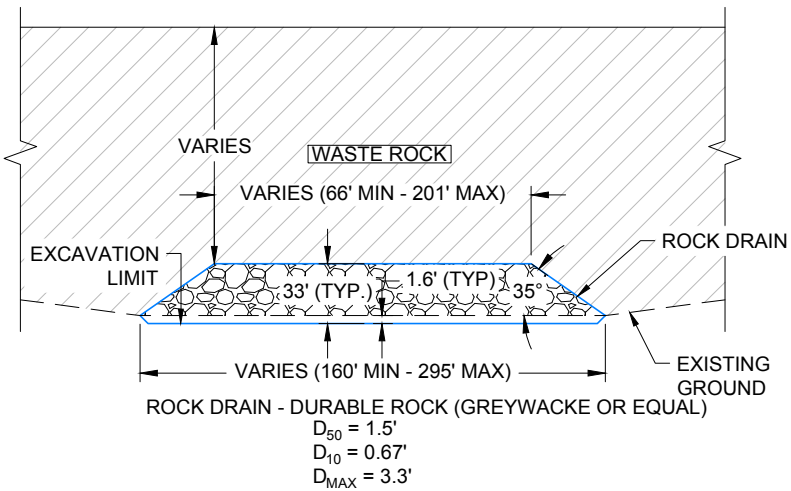
DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503	
NAD 1983 UTM Zone 4N	
SCALE: AS SHOWN	DATE: 9/28/2015

DRAWING TITLE: FSA MATERIAL SITE UPPER AMERICAN CREEK DETAIL	
FIGURE NO. MA-207D4	FILE NO. POA-1995-120



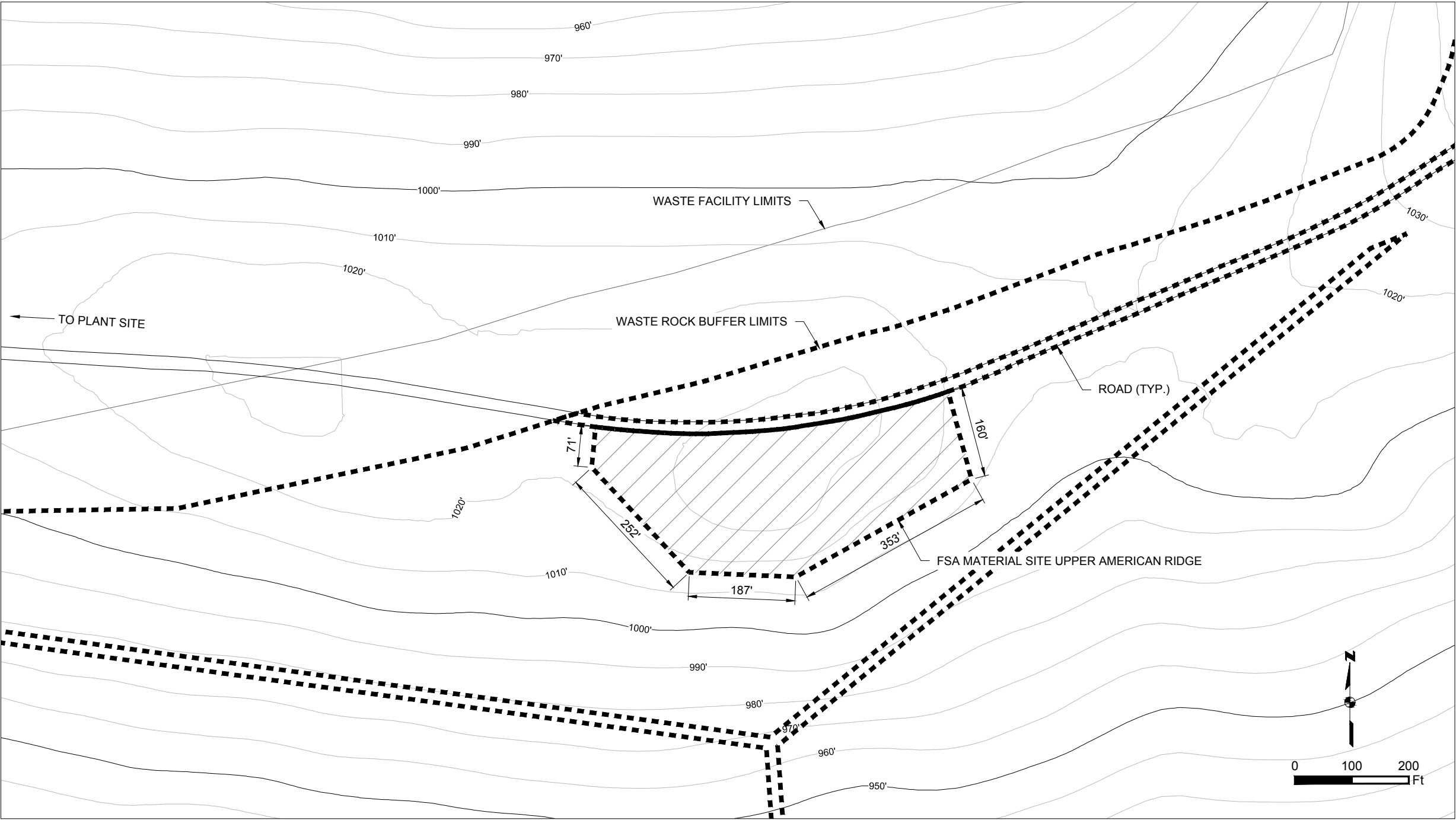


WASTE ROCK FACILITY DRAINAGE SYSTEM PLAN
SCALE 1" = 2000'



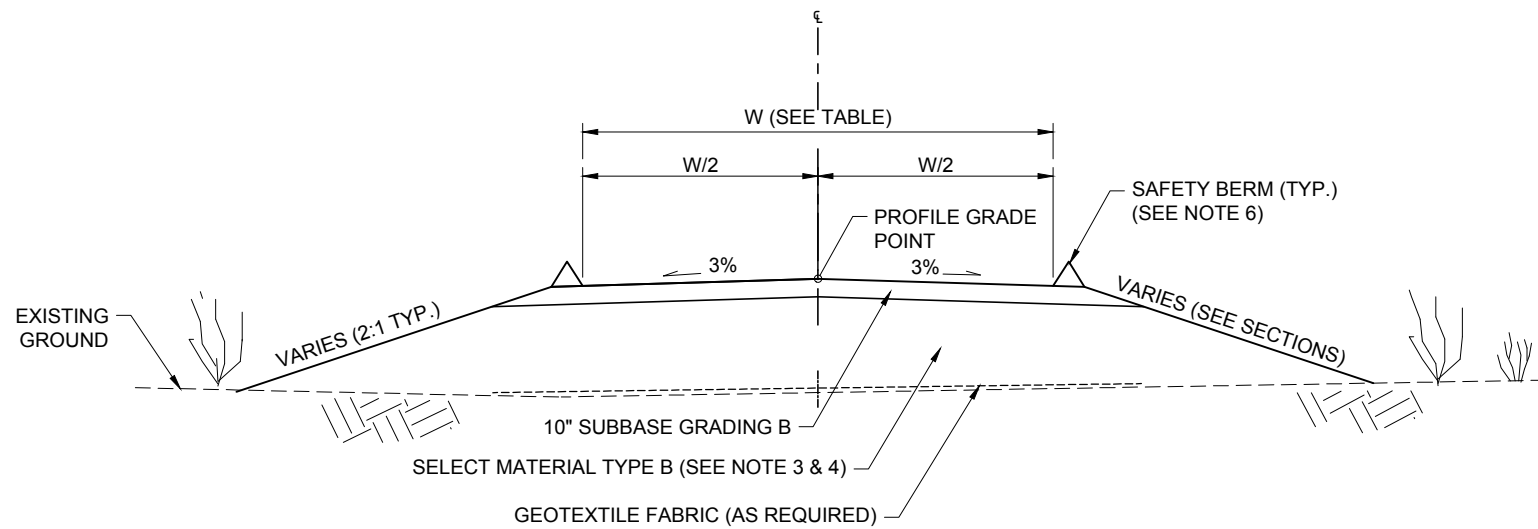
WASTE ROCK FACILITY FINGER DRAIN TYPICAL SECTION A-A'
N.T.S.

Existing 10' Contours Existing 50' Contours Proposed 2' Contours Proposed 10' Contours Fill Area Cut Area Existing Ground Proposed Grade Project Disturbance	Associated Engineering Drawings M19C-SP-SE_01.dwg (BAKER) SEP 2014	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: AS SHOWN DATE: 9/7/2015	DRAWING TITLE: WASTE ROCK FACILITY DRAINAGE SYSTEM DETAIL FIGURE NO. MA-207D6 FILE NO. POA-1995-120
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FSA MATERIAL SITE UPPER AMERICAN RIDGE PLAN
SCALE 1" = 200'

Existing 10' Contours Existing 50' Contours Project Disturbance	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

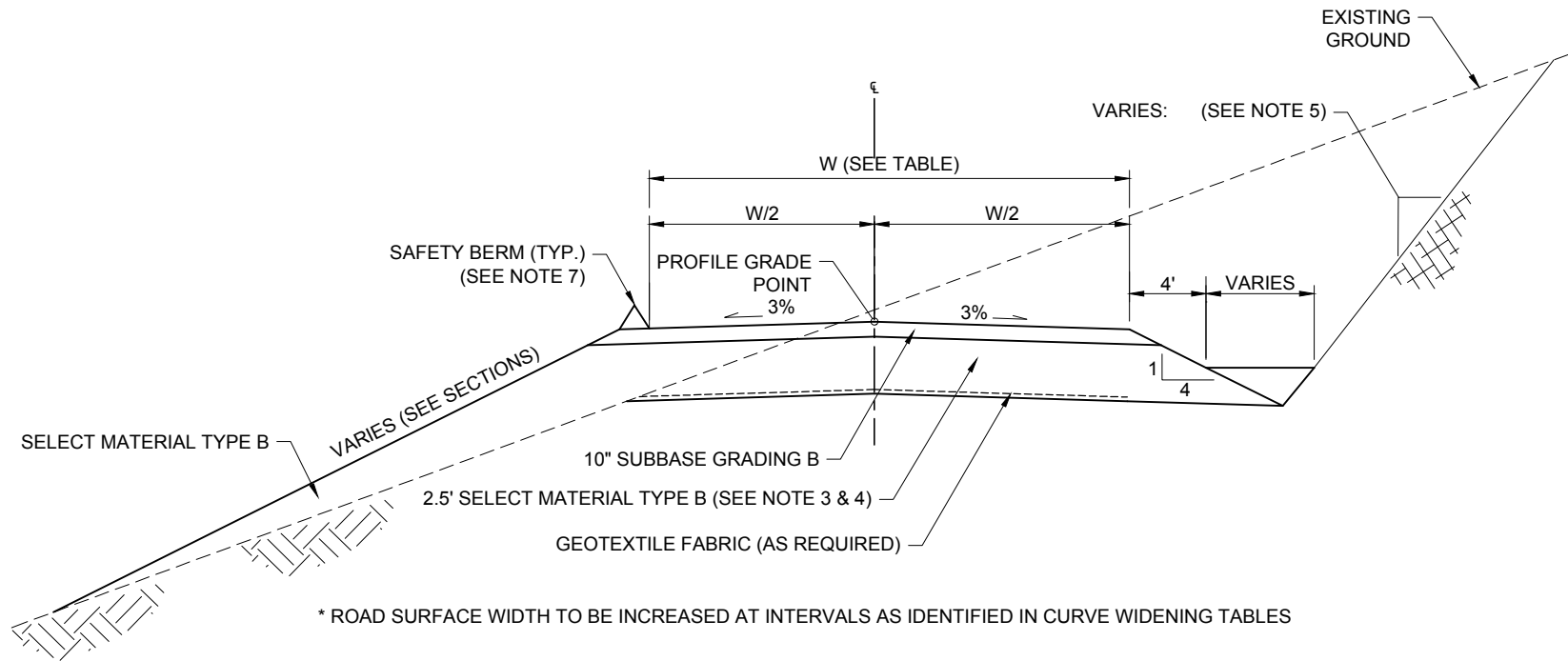


SECTION TYPICAL FOR WETLAND AND PERMAFROST INTERVALS IN MOSTLY LEVEL TERRAIN.

A-A'
210T
ROAD TYPICAL SECTION FOR WETLAND OR PERMAFROST AREAS
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
ROAD TYPICAL SECTION FOR AREAS WITH GOOD SOILS OR ROCK
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

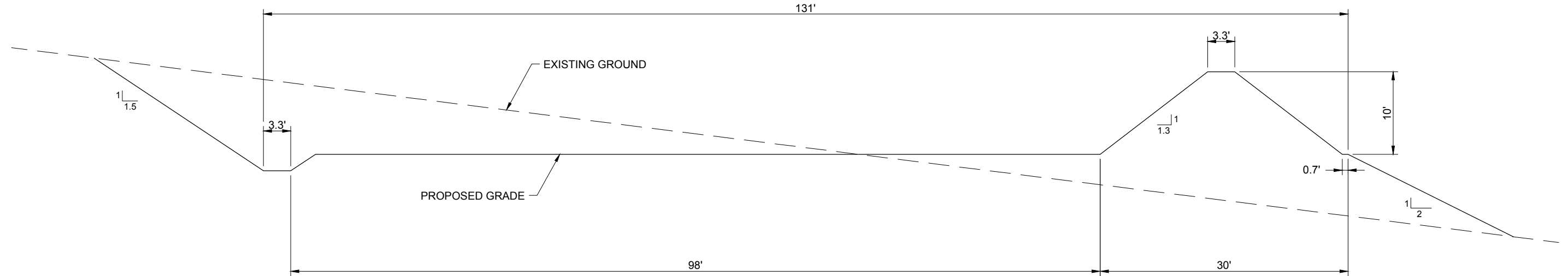
FAC ID	Facility Name	W (ft)
60	A-1 Storage Access Road	16
69	Upper TSF Access Road - A	16
70	Upper TSF Access Road - B	16
115	Plant Site Waste Rock Facility Access Road	60
126	Waste Rock Storage Area Access Road	16
133	American Ridge Access Road	16

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

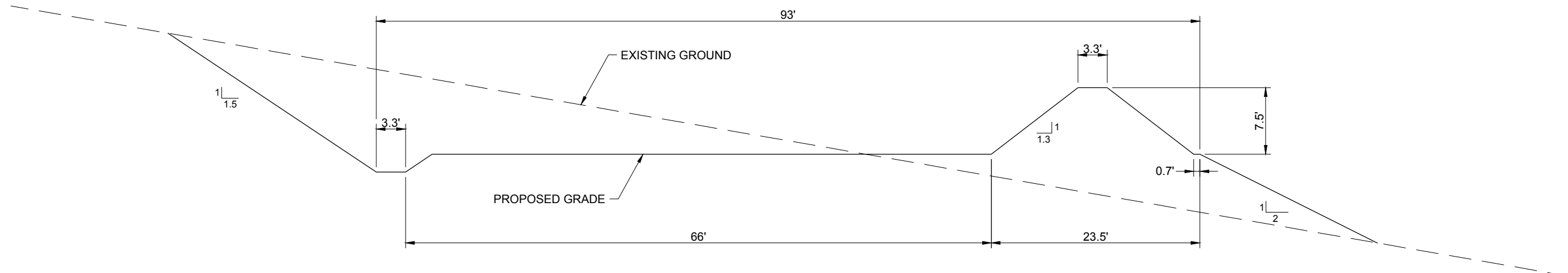
DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503

SCALE: AS SHOWN	DATE: 9/11/2015
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DRAWING TITLE: ROAD TYPICAL DETAIL	
FIGURE NO. MA-210T	FILE NO. POA-1995-120

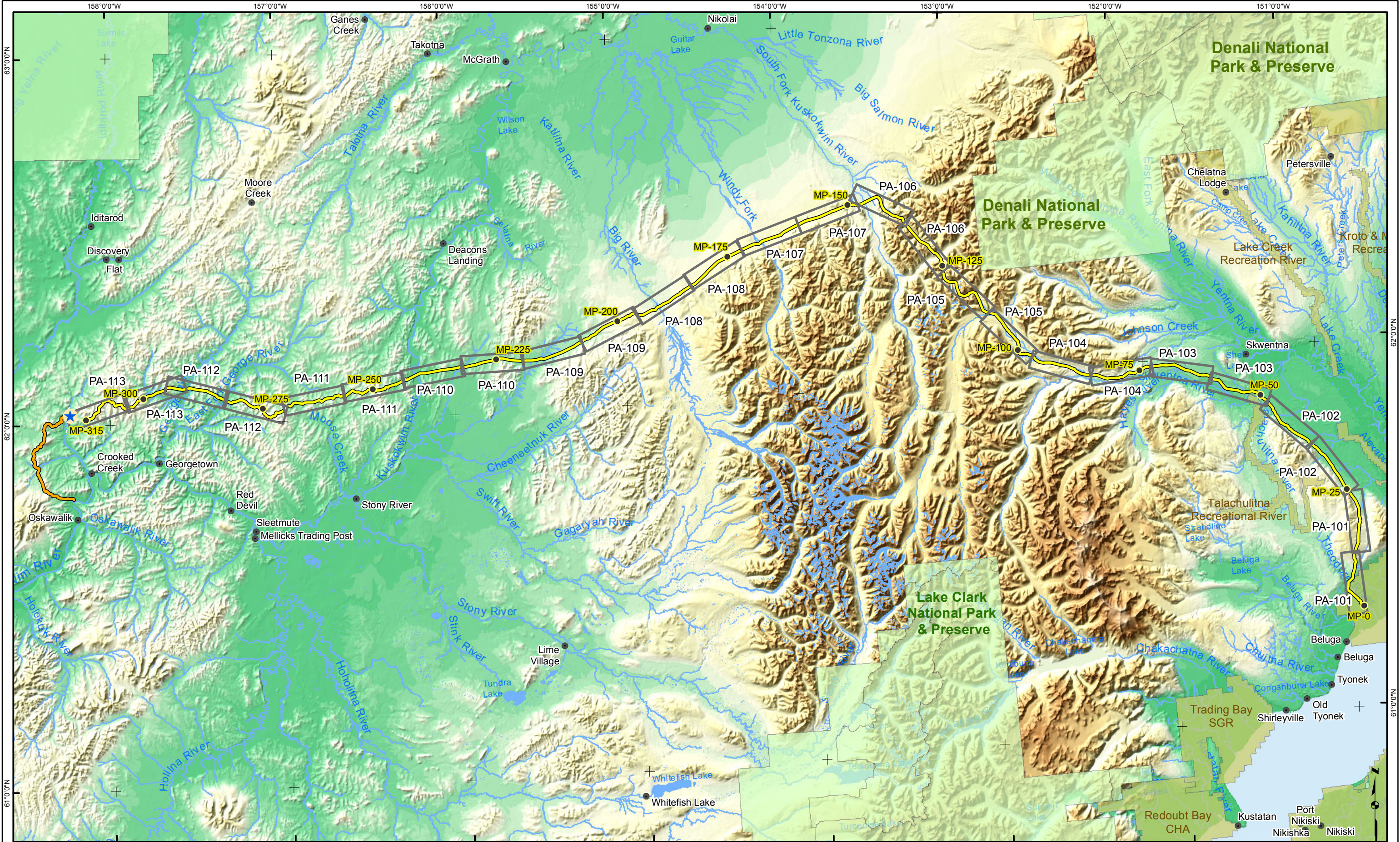


(A-A') 211T **TYPICAL CROSS SECTION FOR GENERAL PURPOSE MINE HAUL ROADS**
N.T.S.

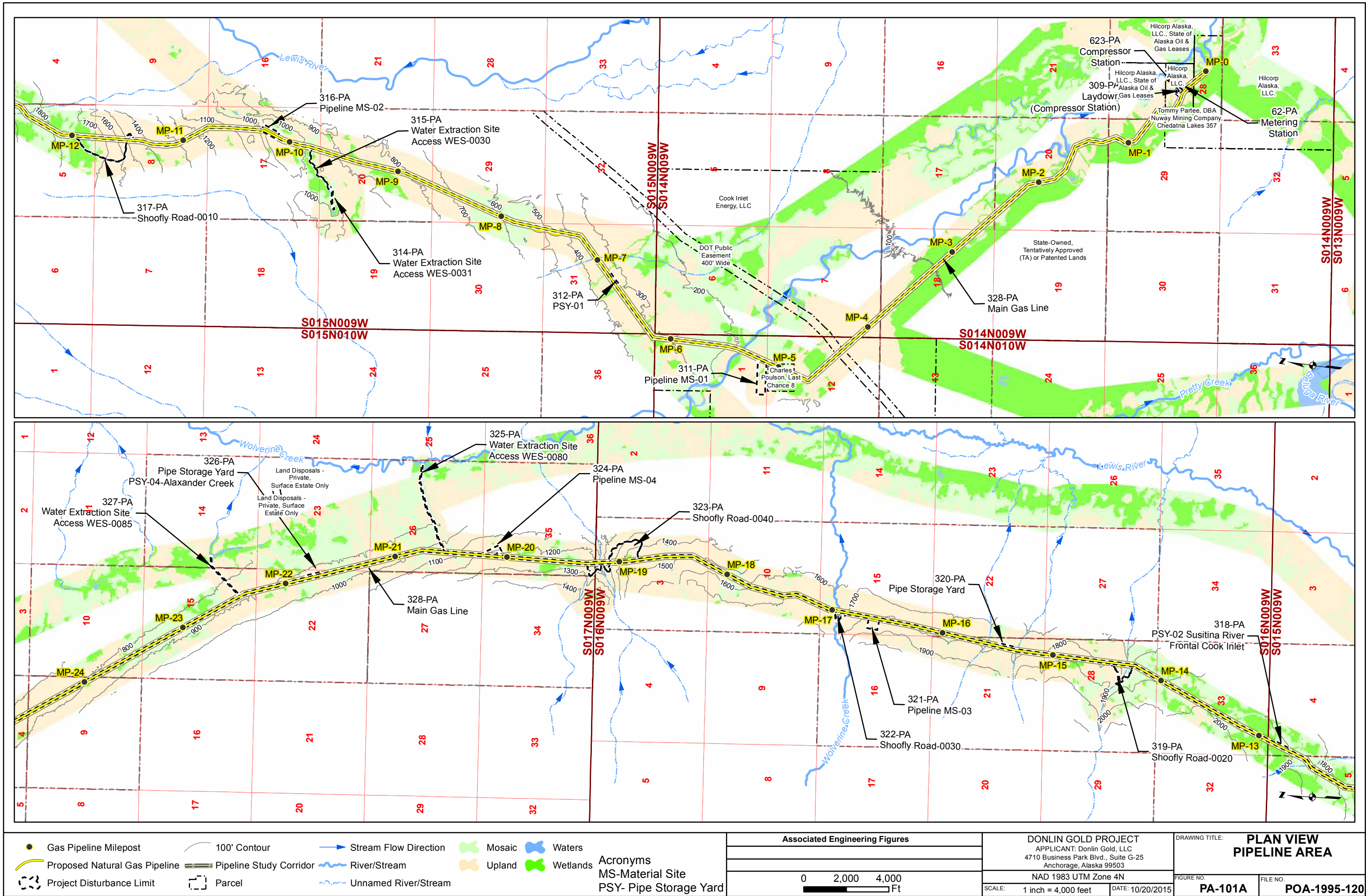


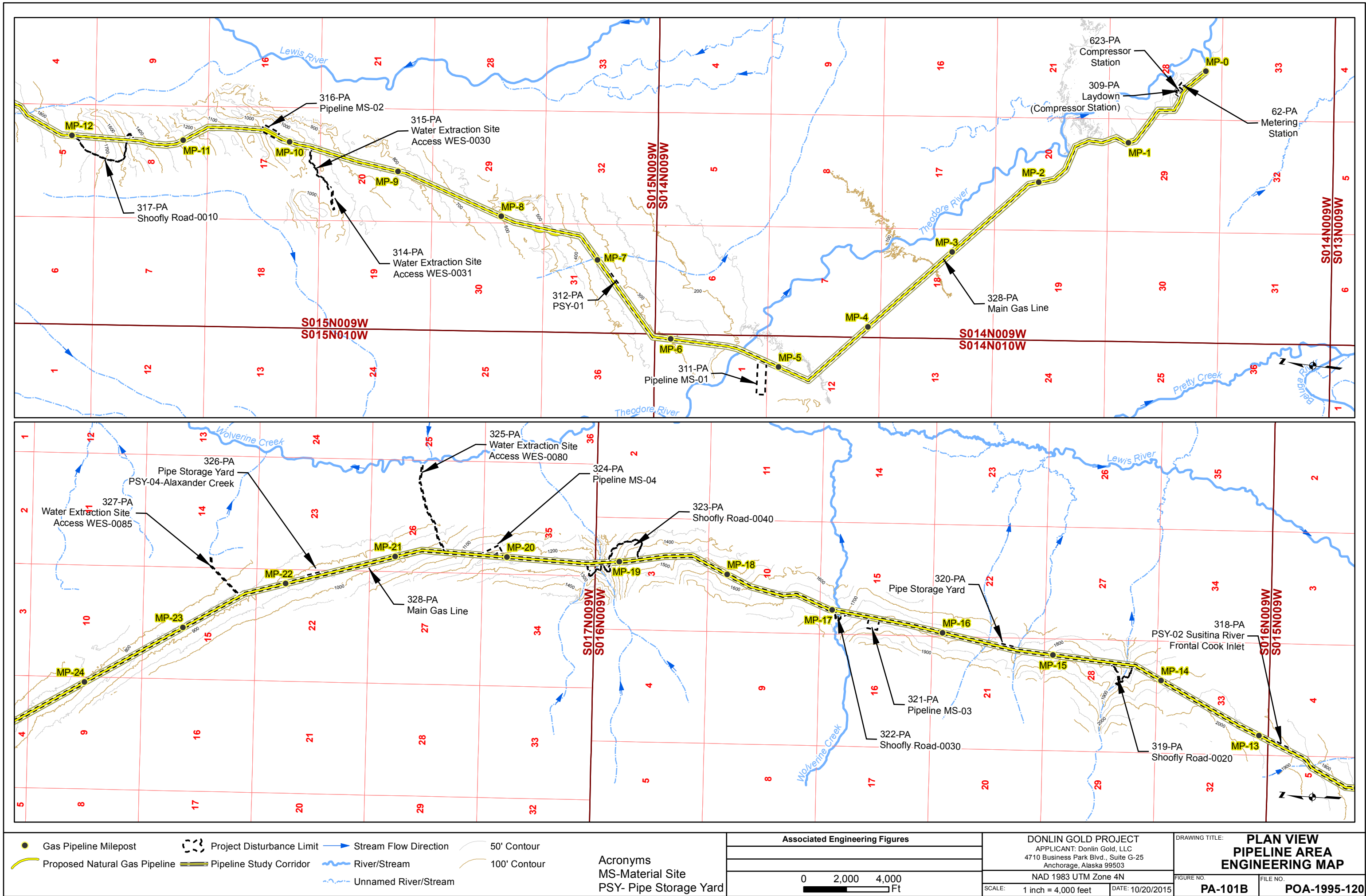
(B-B') 211T **TYPICAL CROSS SECTION FOR CONSTRUCTION HAUL ROADS**
N.T.S.

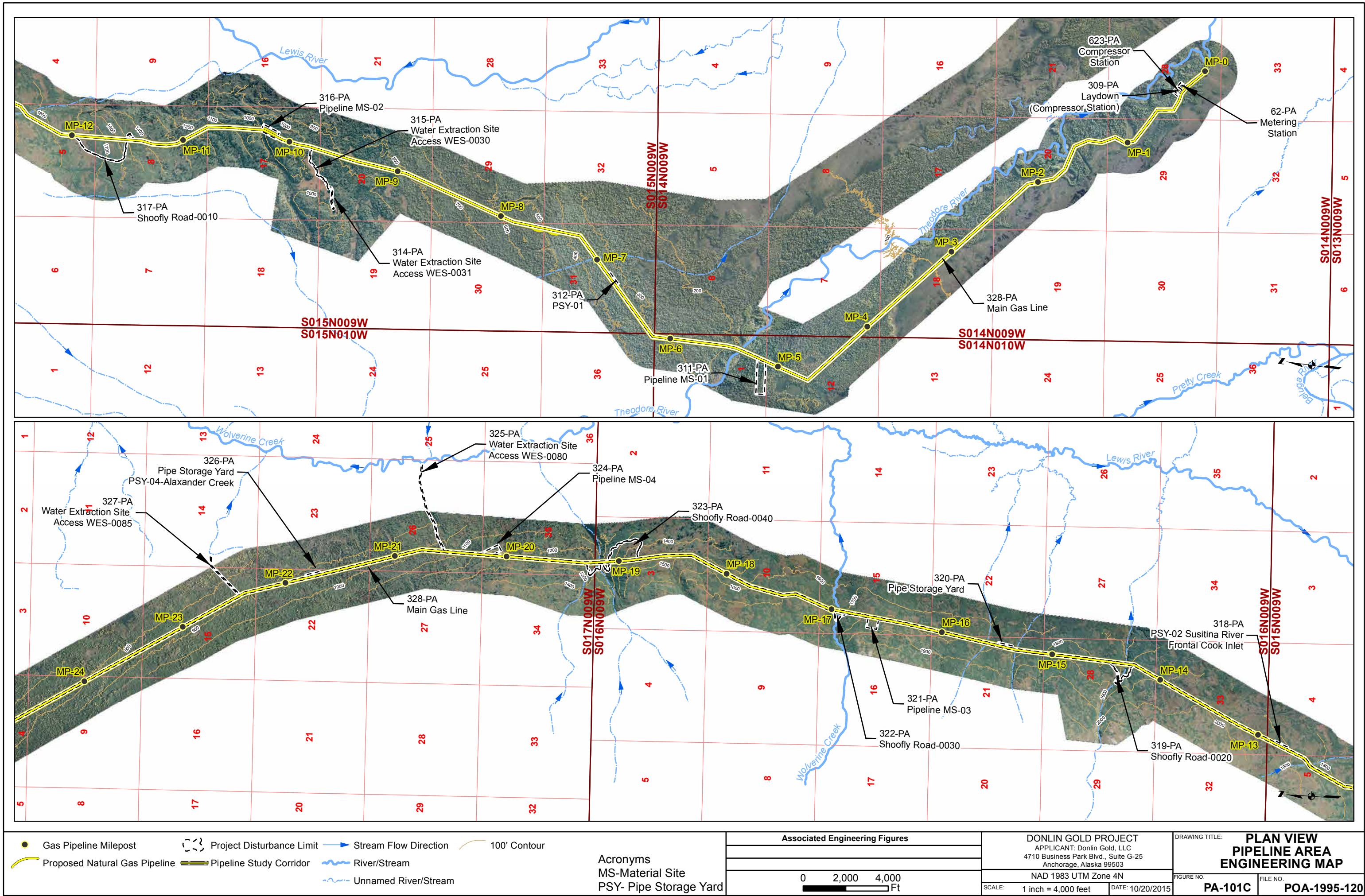
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	HAUL_ROAD_AND_CONSTRUCTION_ROAD_CROSS-SECTION_PROFILE.dwg (BGC / RAY HODSON) MAY 2011		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		HAUL AND CONSTRUCTION ROAD TYPICAL DETAIL	
	SCALE: AS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

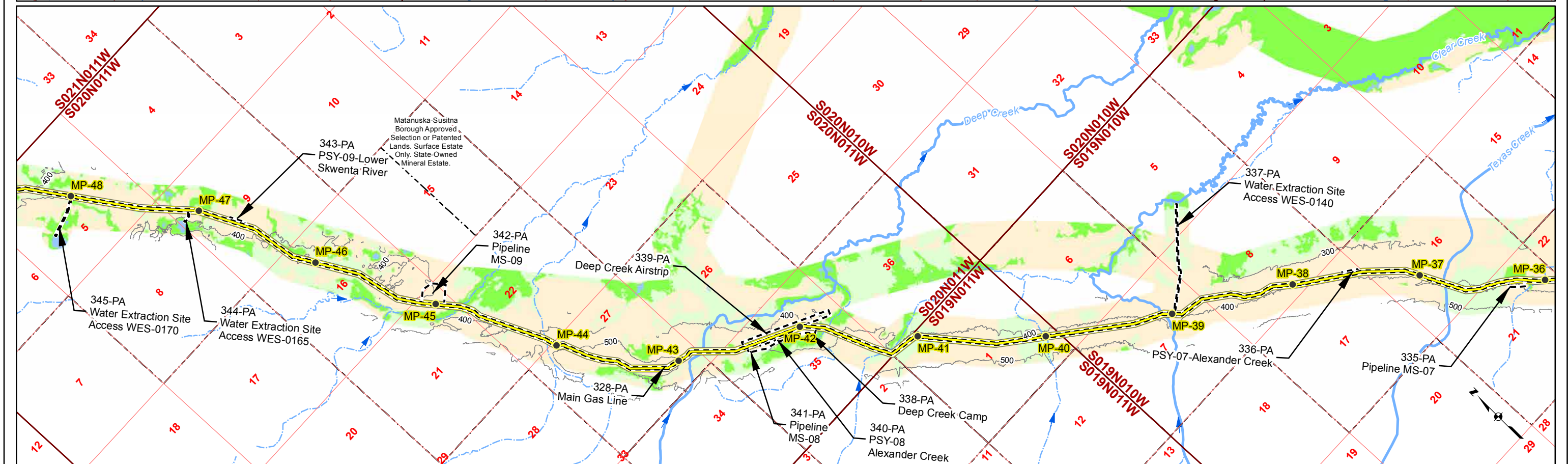
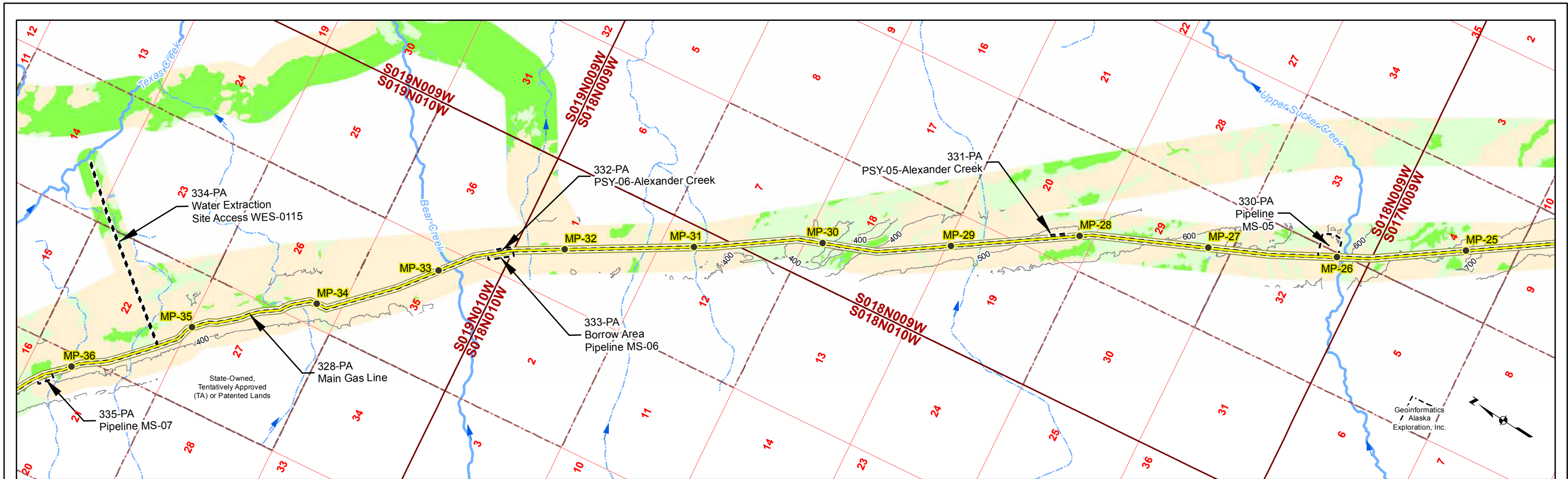


● USA Populated Places ★ Proposed Mine Area (MA) ● Pipeline Milepost (MP)	— Proposed Natural Gas Pipeline — Proposed Jungjuk Road	— Federal Administrative Boundary — State Administrative Boundary — River/Stream	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW PIPELINE INDEX MAP	
			0 8 16 Miles		NAD 1983 UTM Zone 4N SCALE: 1 inch = 16 miles DATE: 10/20/2015		FIGURE NO. PA-100G	FILE NO. POA-1995-120

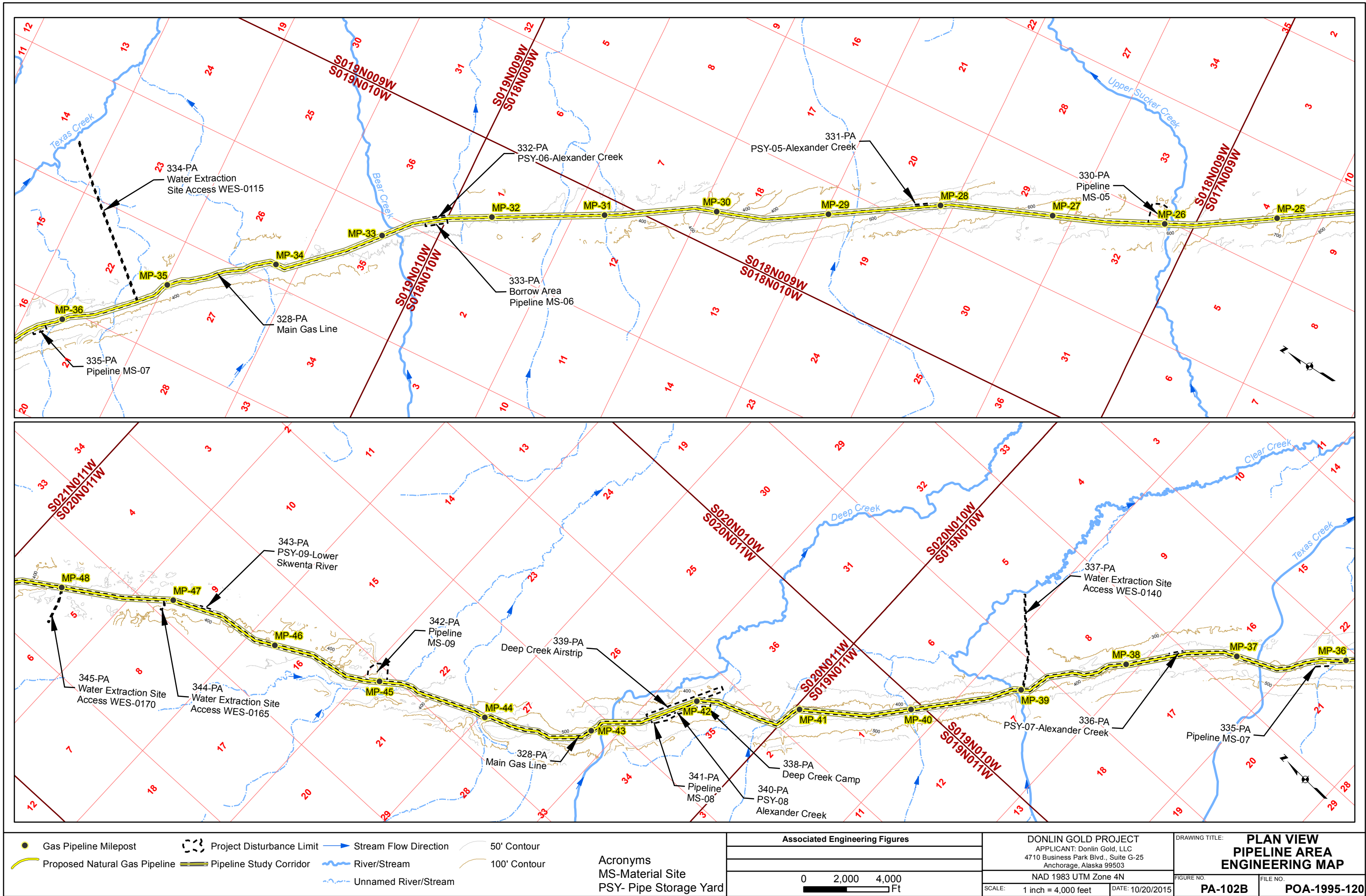


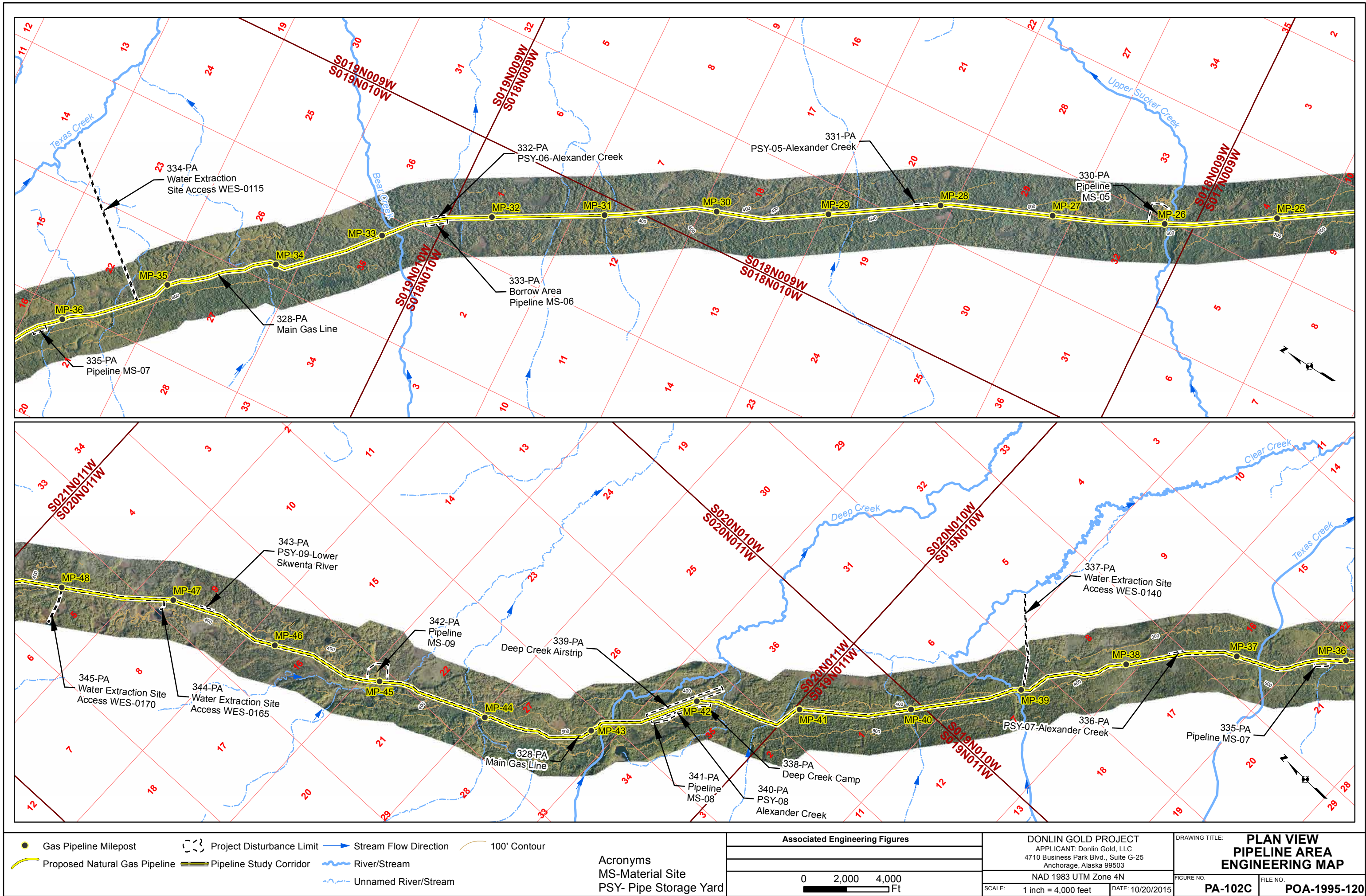


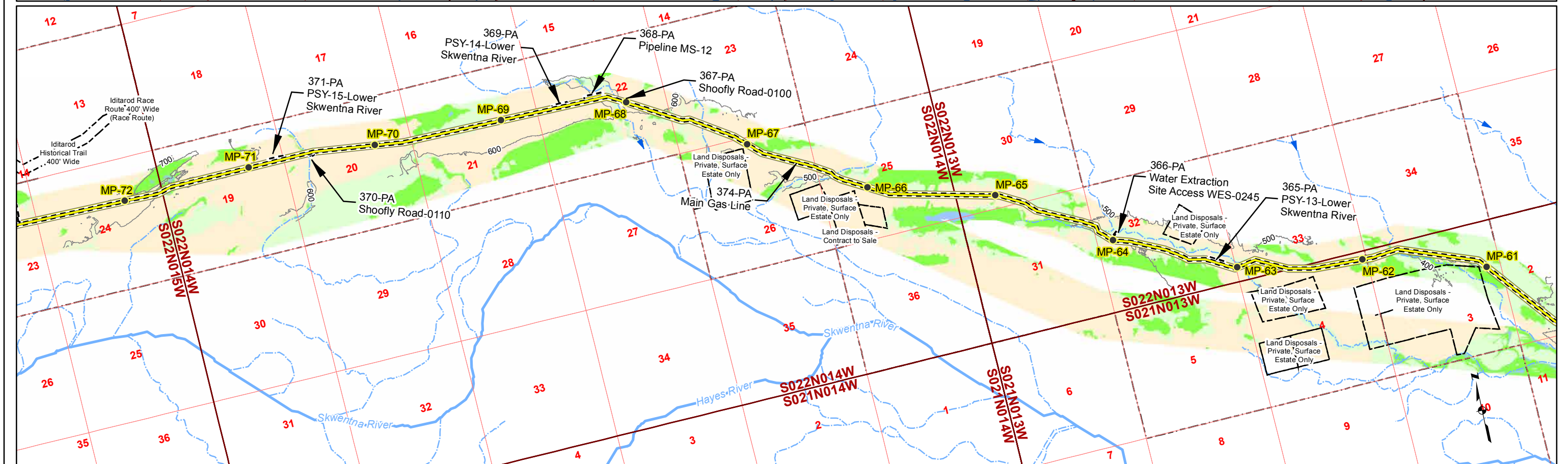
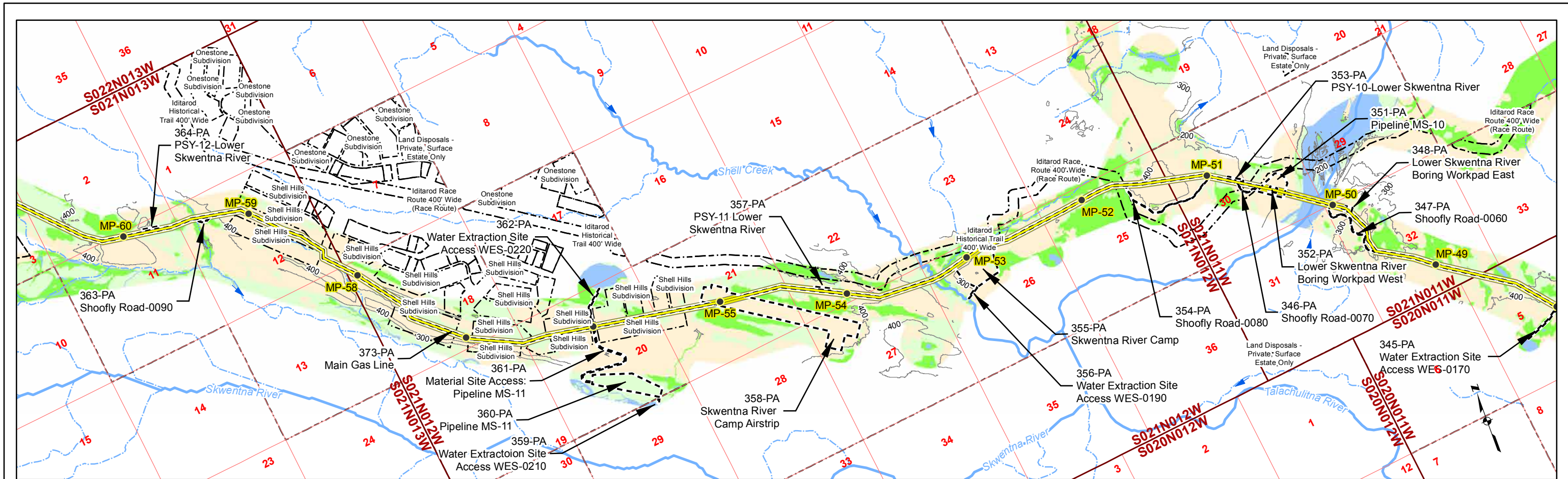




- Gas Pipeline Milepost - Proposed Natural Gas Pipeline - Project Disturbance Limit	100' Contour - Pipeline Study Corridor - Parcel	- Stream Flow Direction - River/Stream - Unnamed River/Stream	- Mosaic - Upland - Wetlands	Acronyms MS-Material Site PSY- Pipe Storage Yard	Associated Engineering Figures 0 2,000 4,000 Ft	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4710 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 4,000 feet DATE: 10/20/2015	DRAWING TITLE: PLAN VIEW PIPELINE AREA FIGURE NO. PA-102A FILE NO. POA-1995-120
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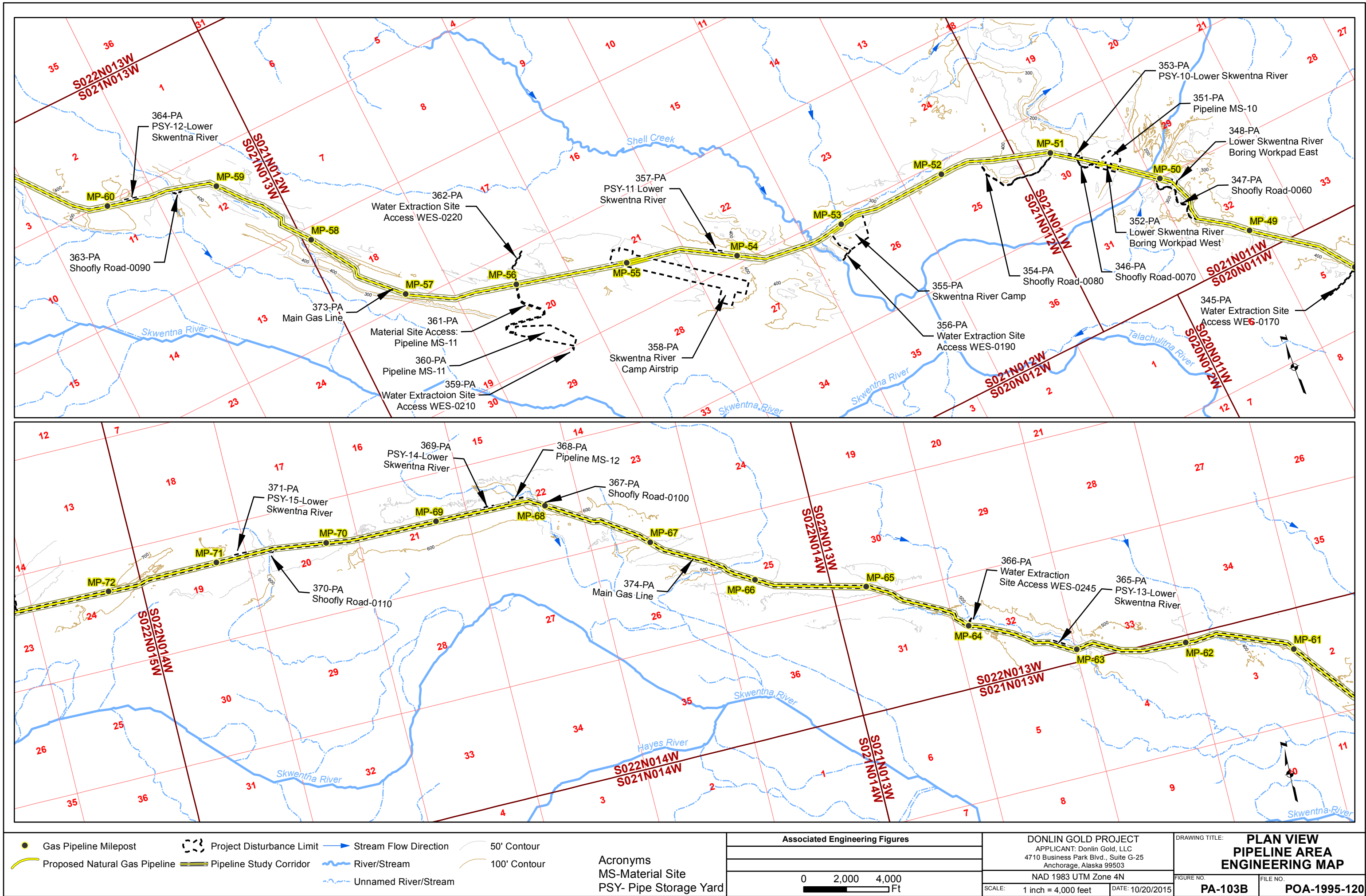


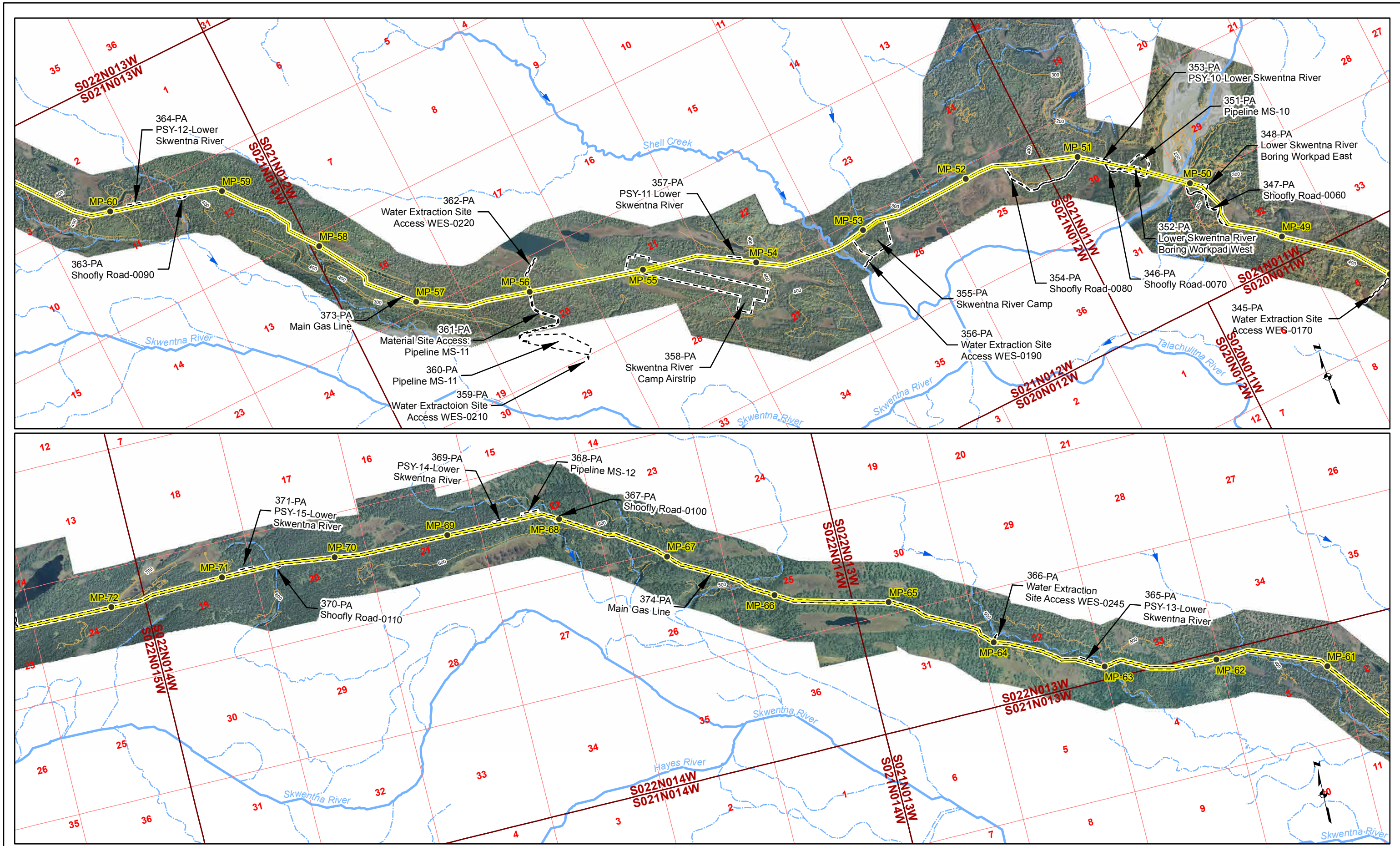




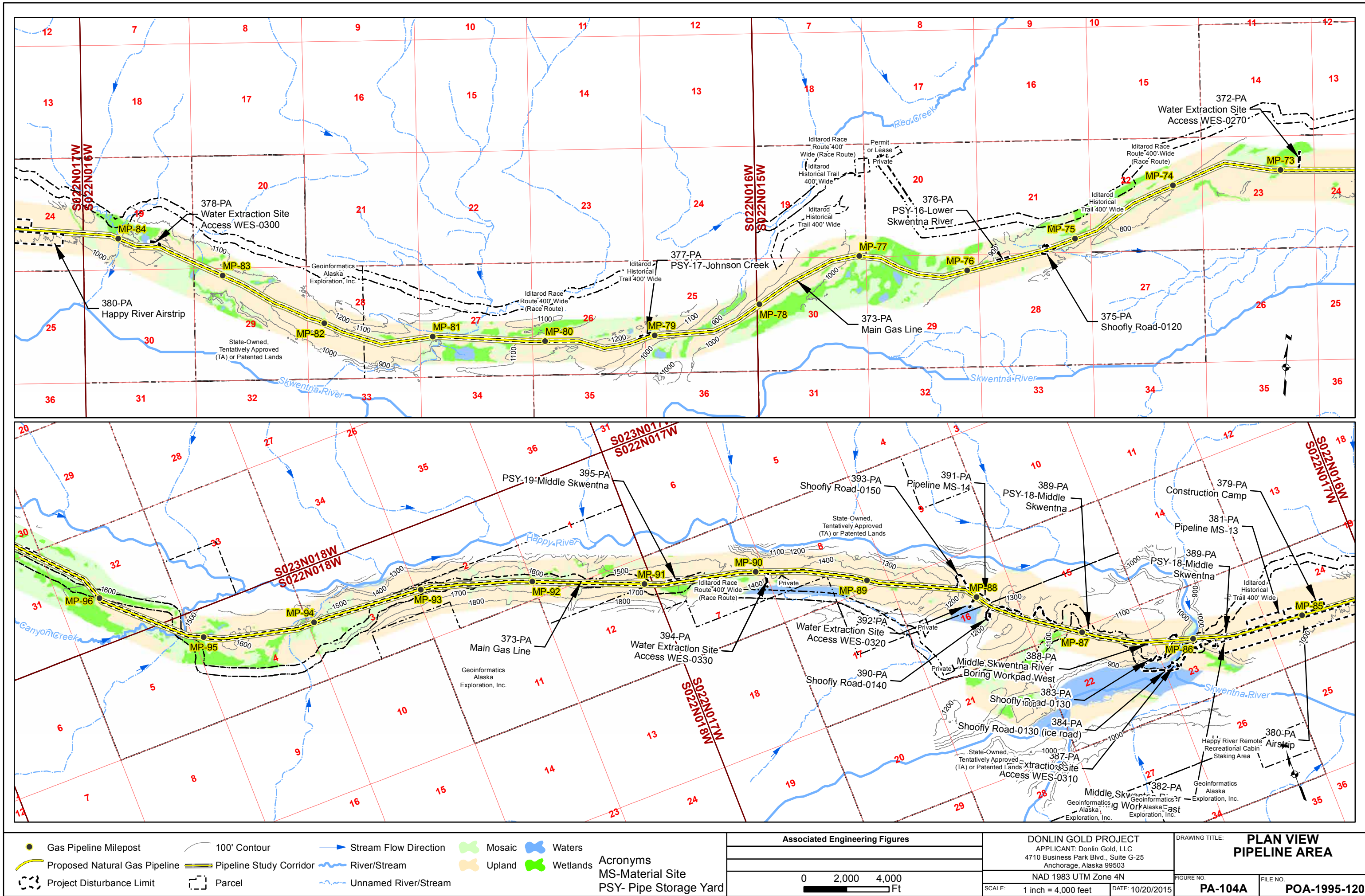
 Gas Pipeline Milepost	 100' Contour	 Stream Flow Direction	 Mosaic	 Waters	 Upland	 Wetlands	Acronyms MS- Material Site PSY- Pipe Storage Yard	Associated Engineering Figures		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4710 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW PIPELINE AREA	
								0 2,000 4,000 Ft		NAD 1983 UTM Zone 4N		FIGURE NO. PA-103A FILE NO. POA-1995-120	
 Proposed Natural Gas Pipeline	 Pipeline Study Corridor	 River/Stream						SCALE: 1 inch = 4,000 feet		DATE: 10/20/2015			
 Project Disturbance Limit	 Parcel	 Unnamed River/Stream											

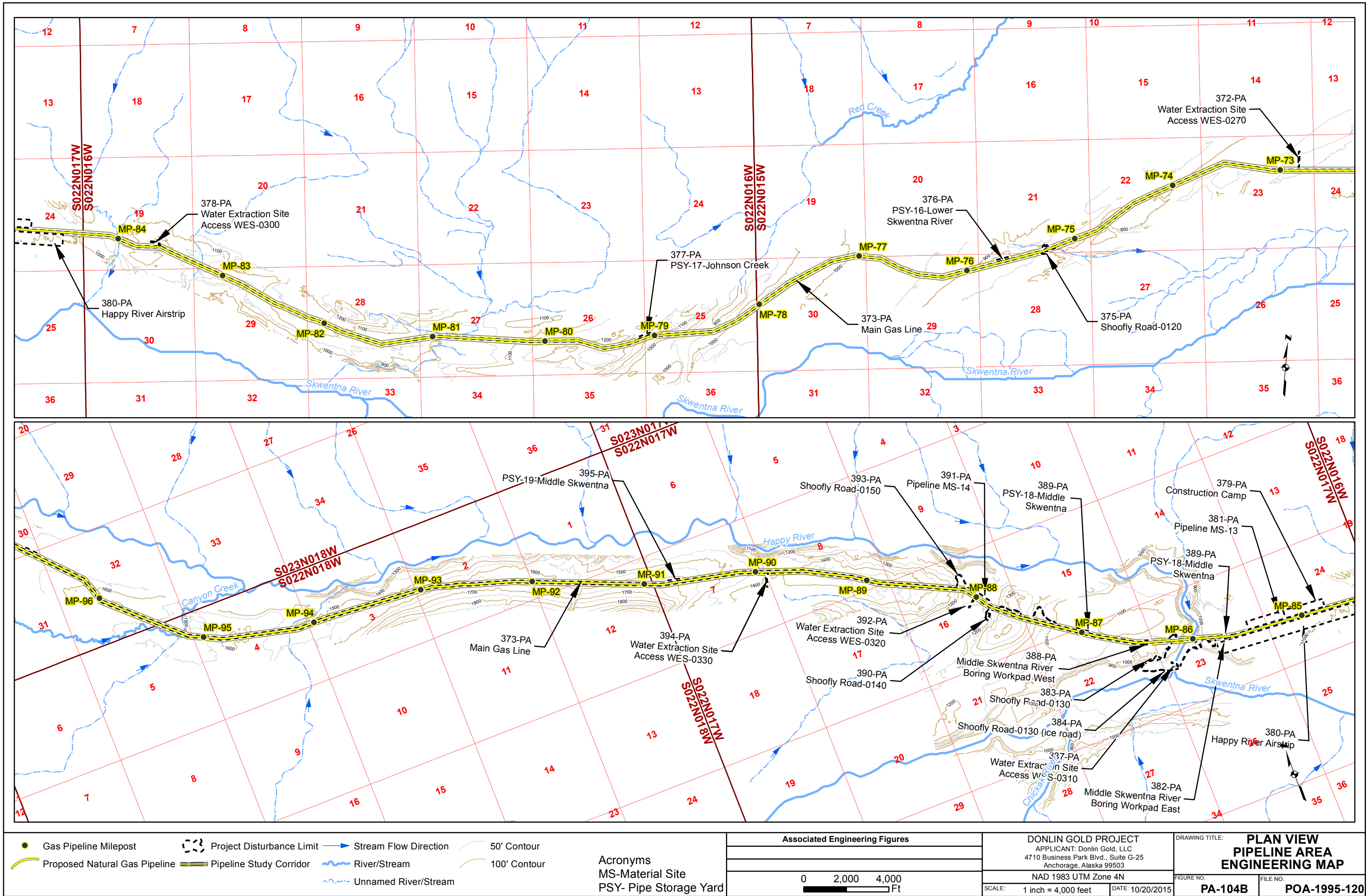
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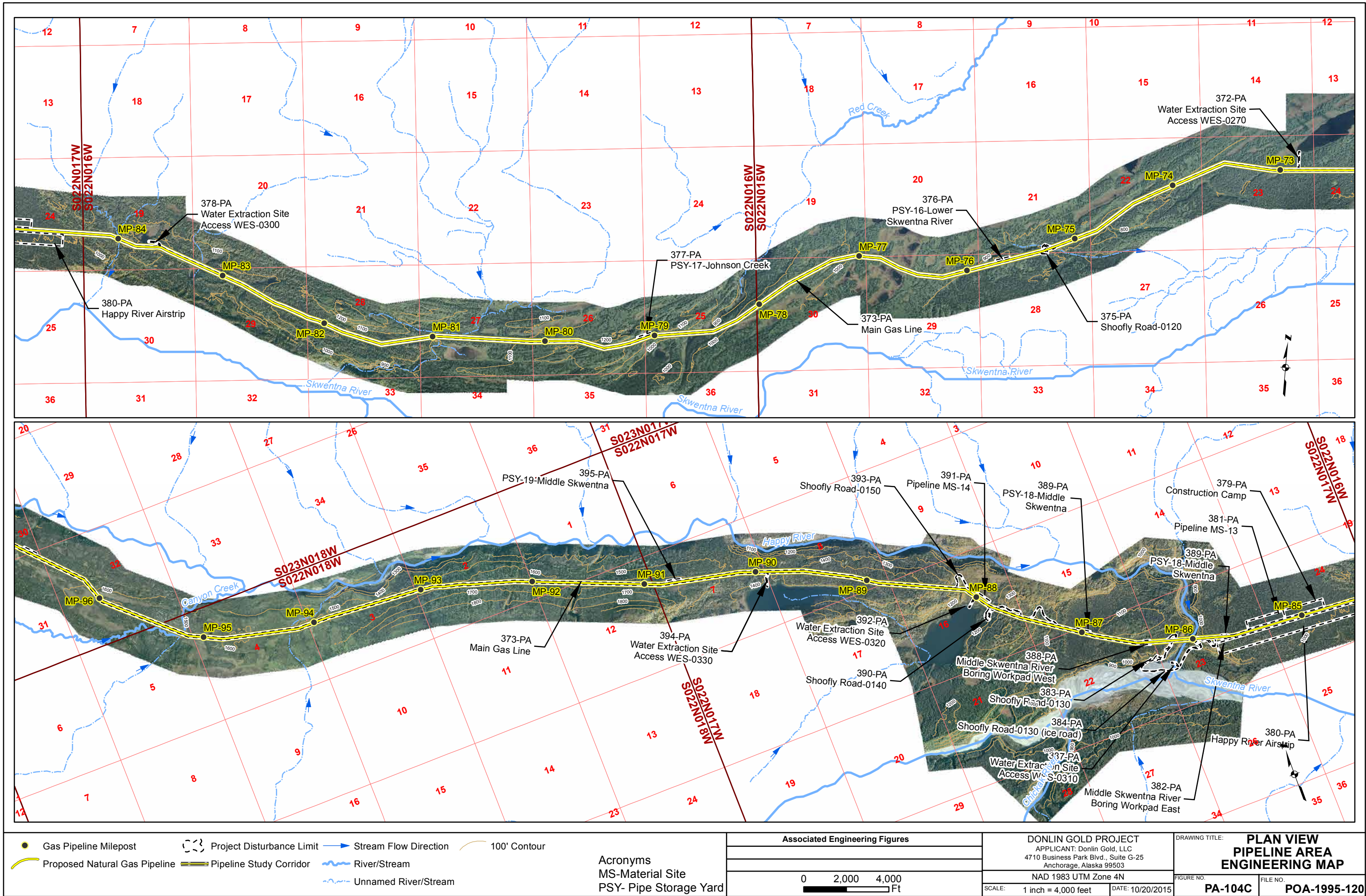


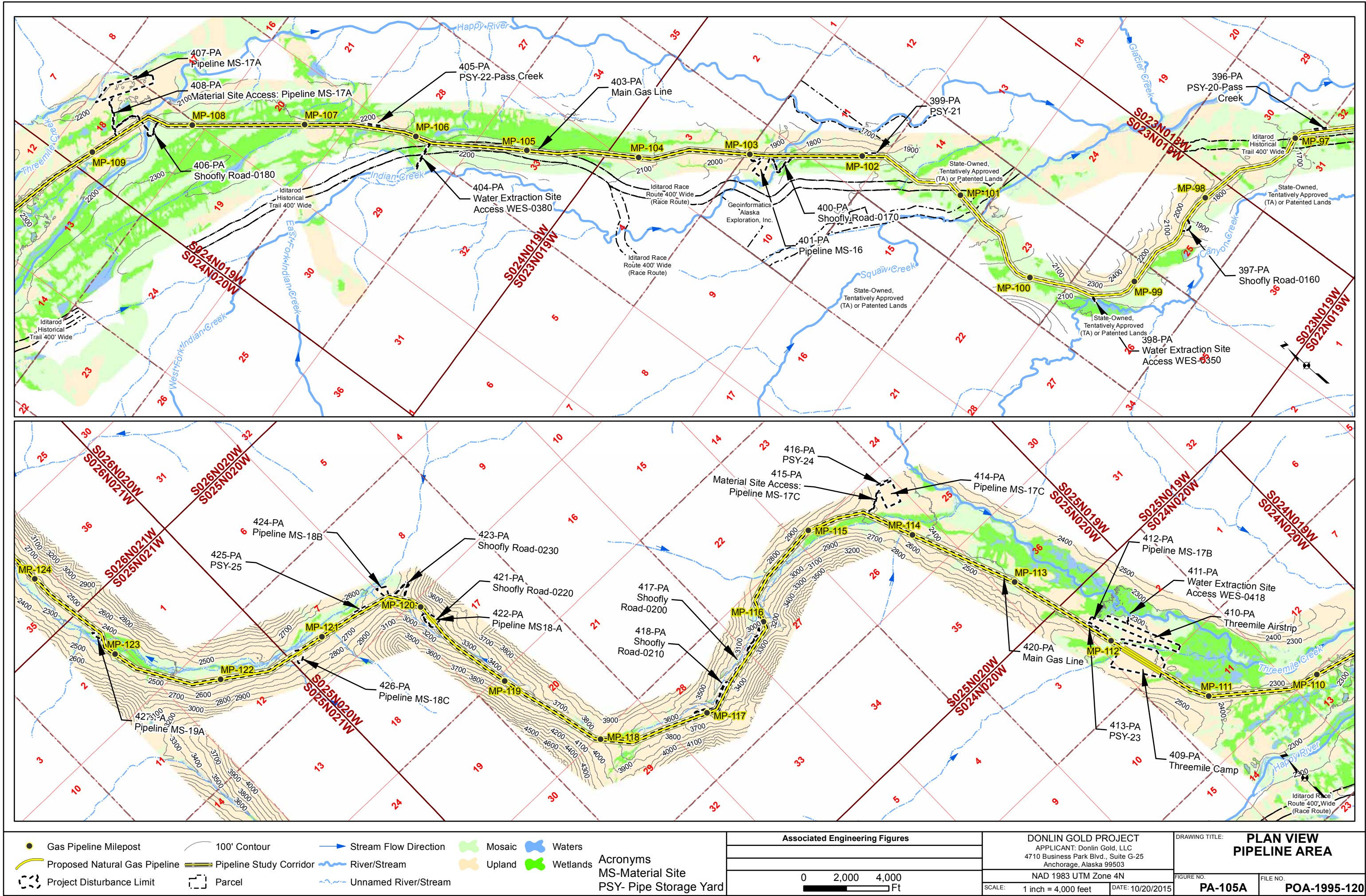


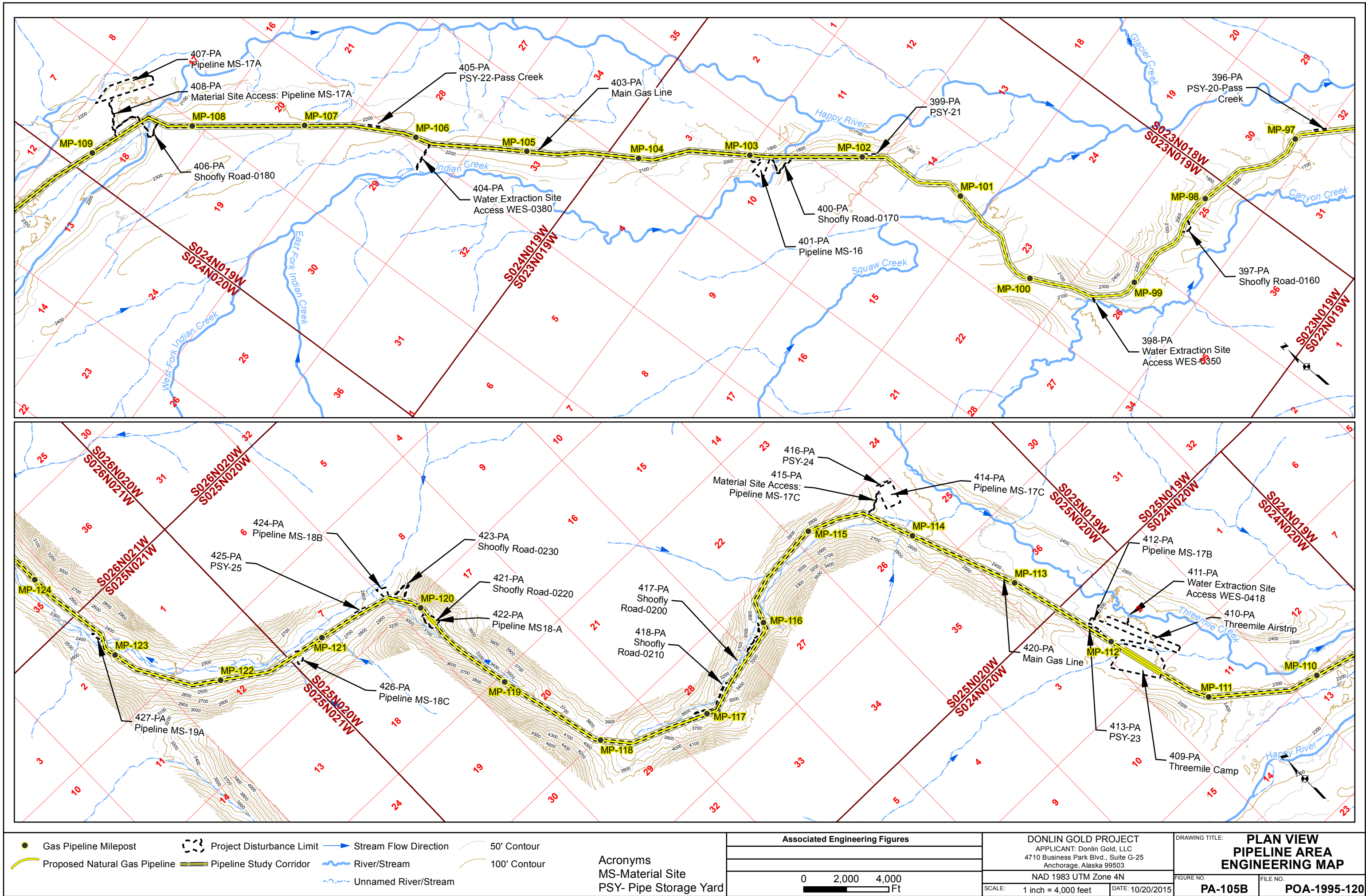
Gas Pipeline Milepost Proposed Natural Gas Pipeline Project Disturbance Limit Pipeline Study Corridor Stream Flow Direction River/Stream Unnamed River/Stream 100' Contour	Acronyms MS- Material Site PSY- Pipe Storage Yard	Associated Engineering Figures		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4710 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503 NAD 1983 UTM Zone 4N SCALE: 1 inch = 4,000 feet DATE: 10/20/2015		DRAWING TITLE: PLAN VIEW PIPELINE AREA ENGINEERING MAP FIGURE NO. PA-103C FILE NO. POA-1995-120	

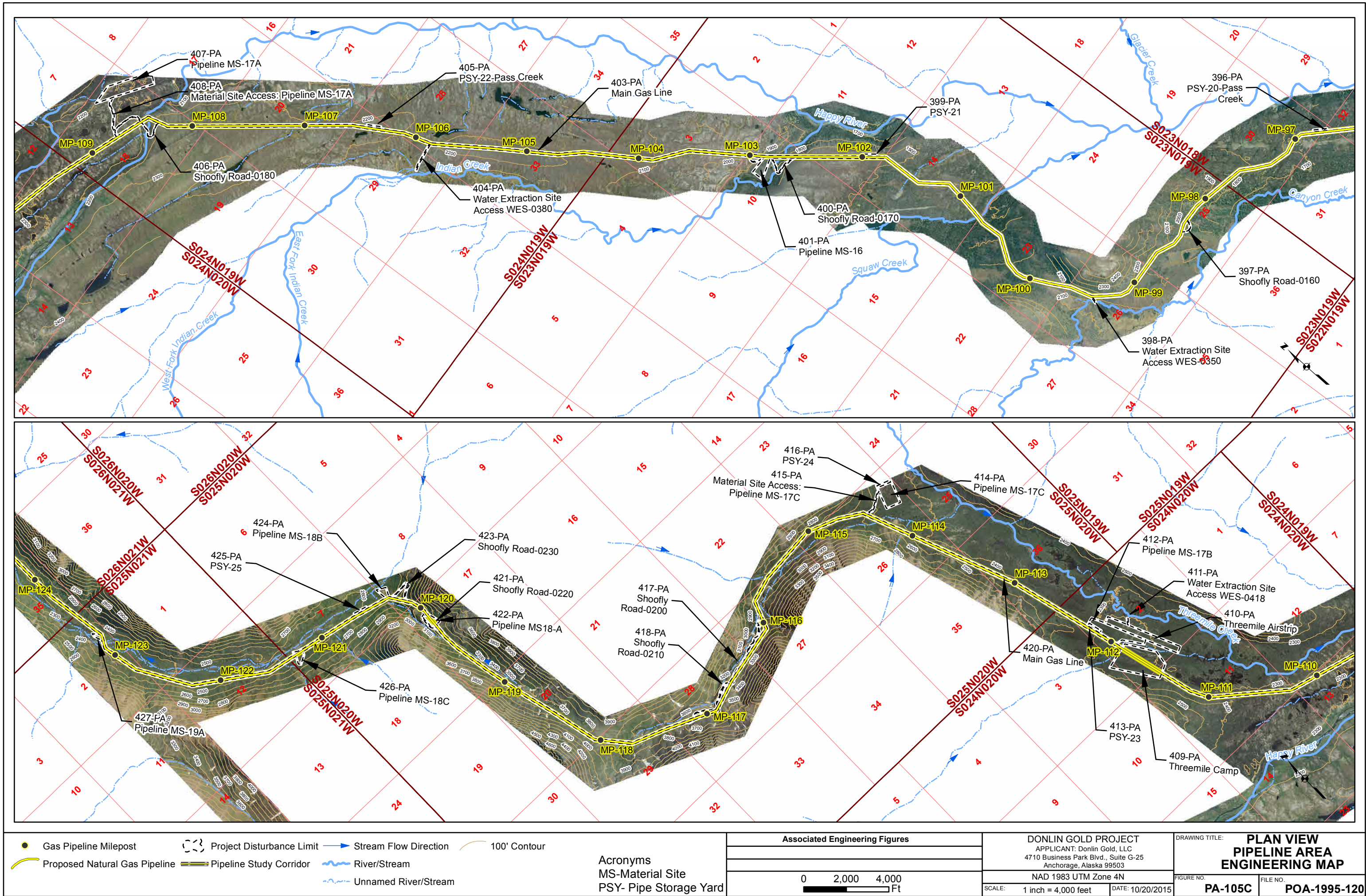


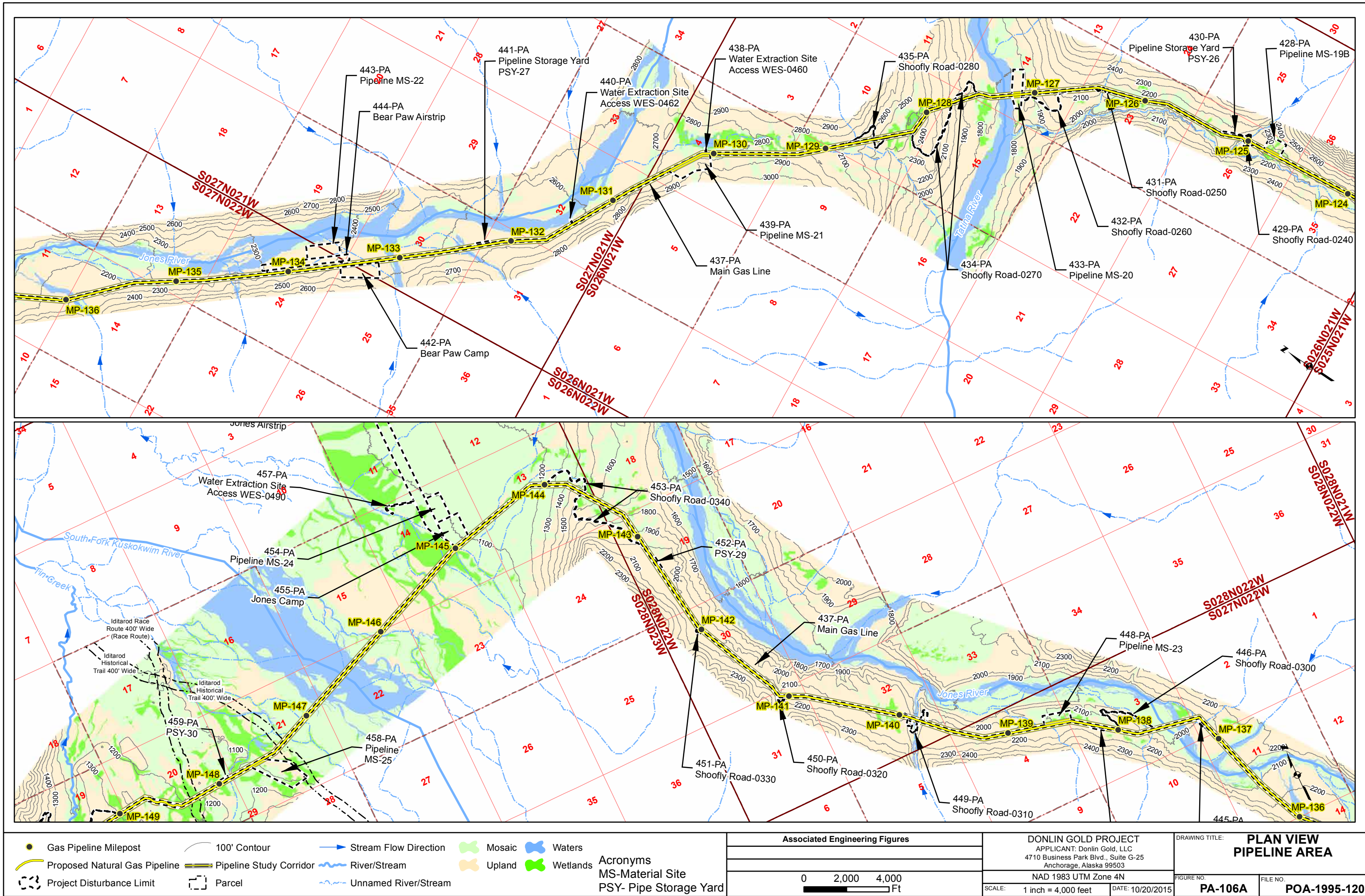


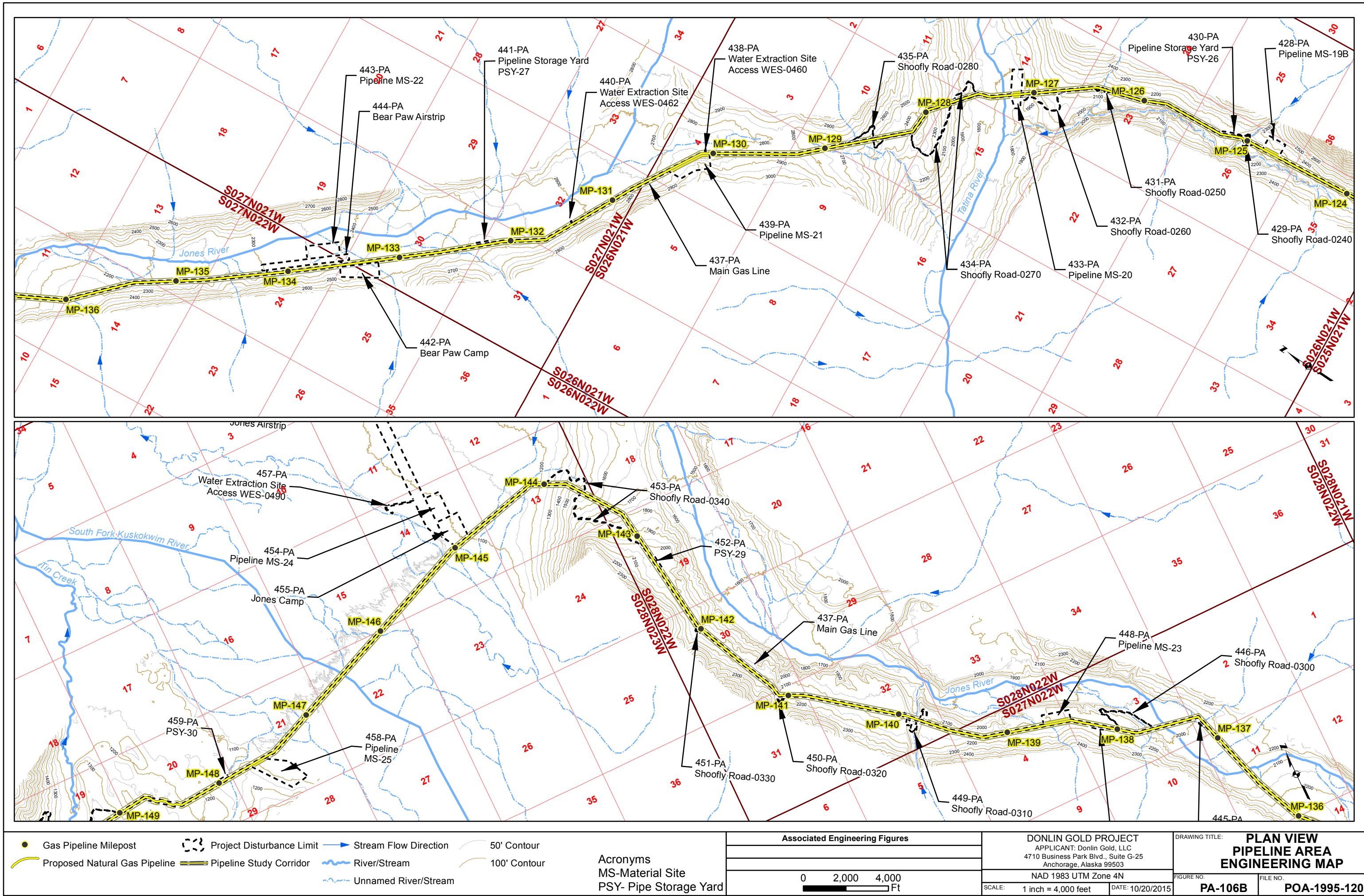


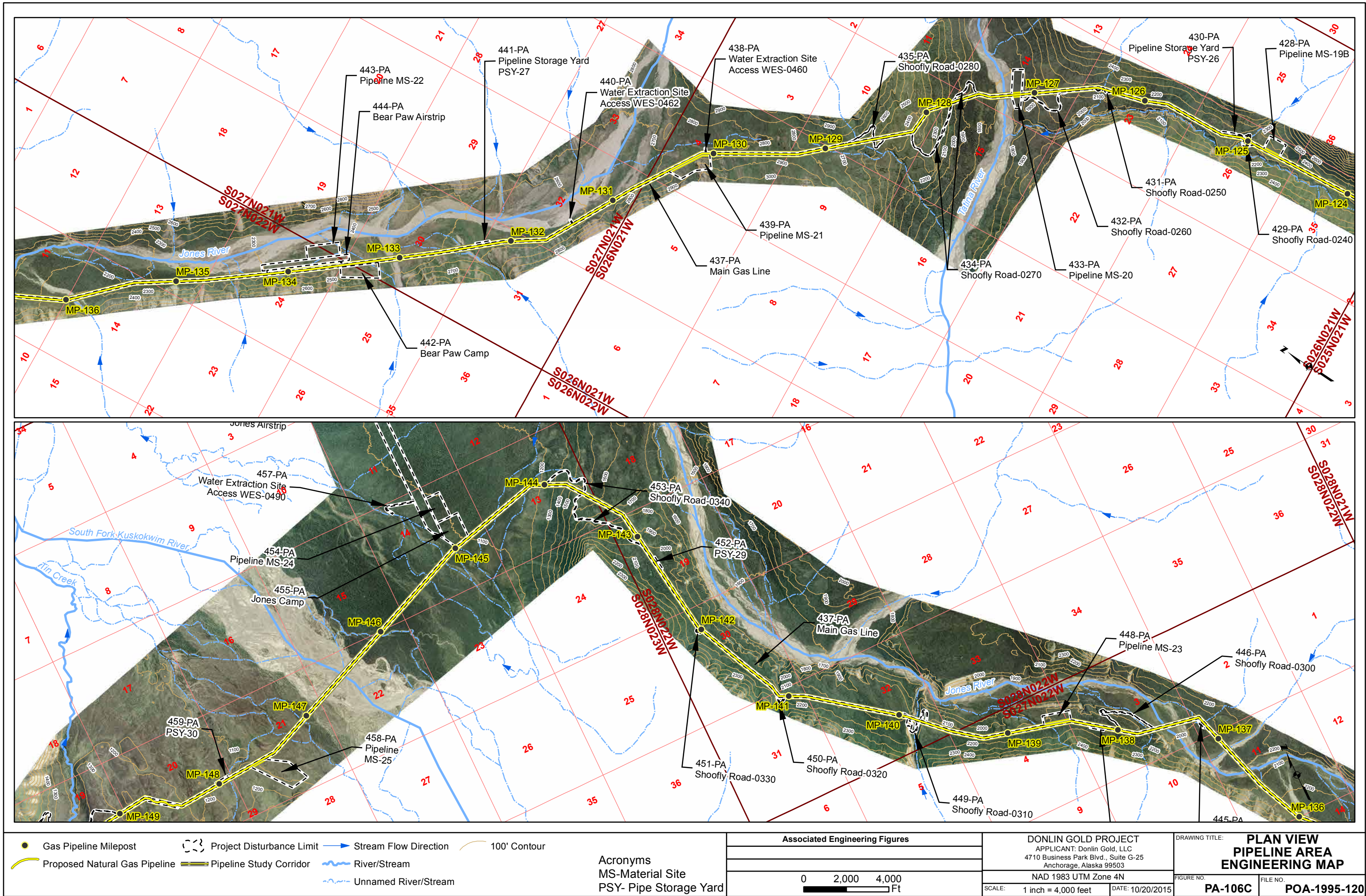


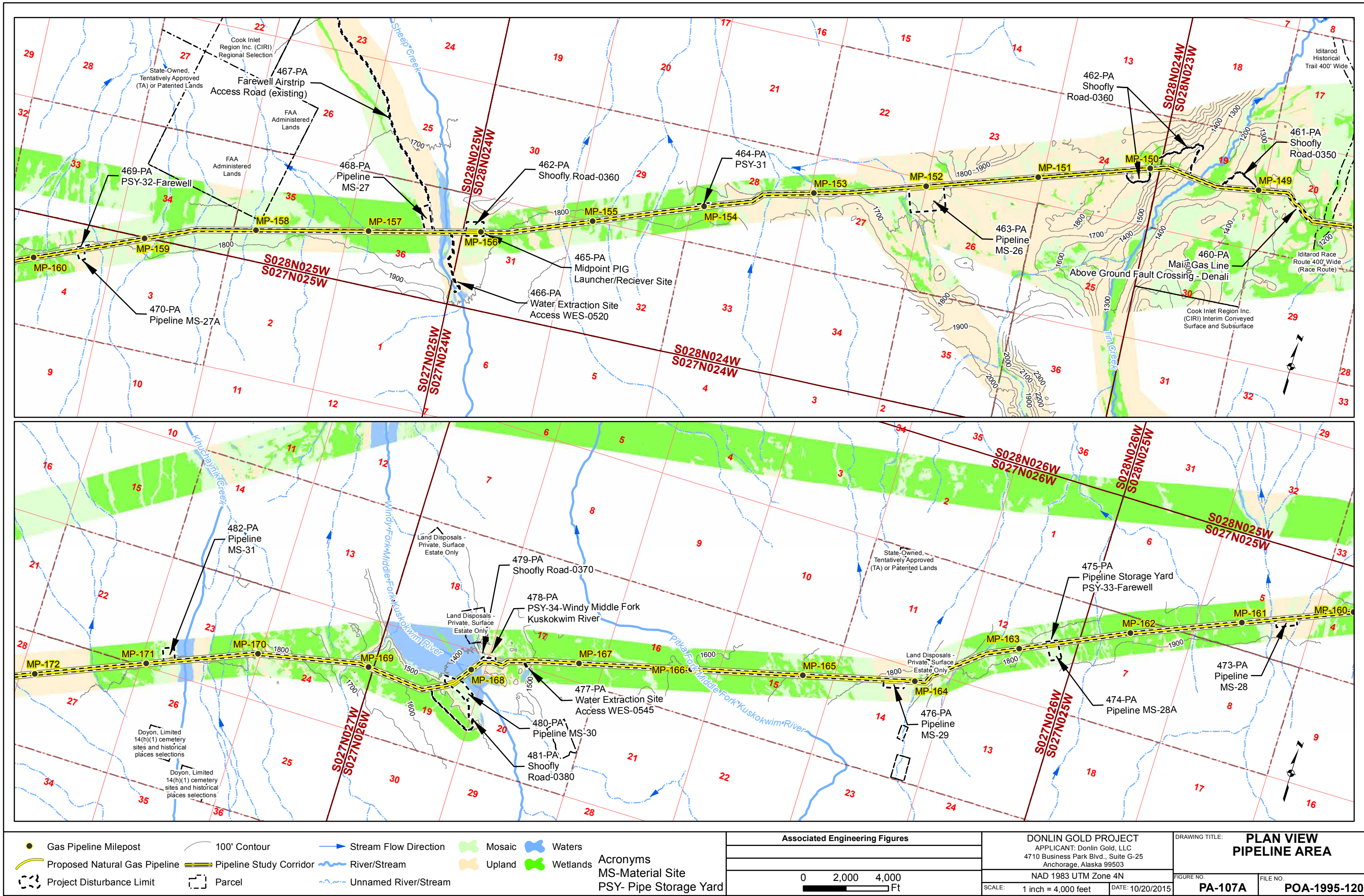


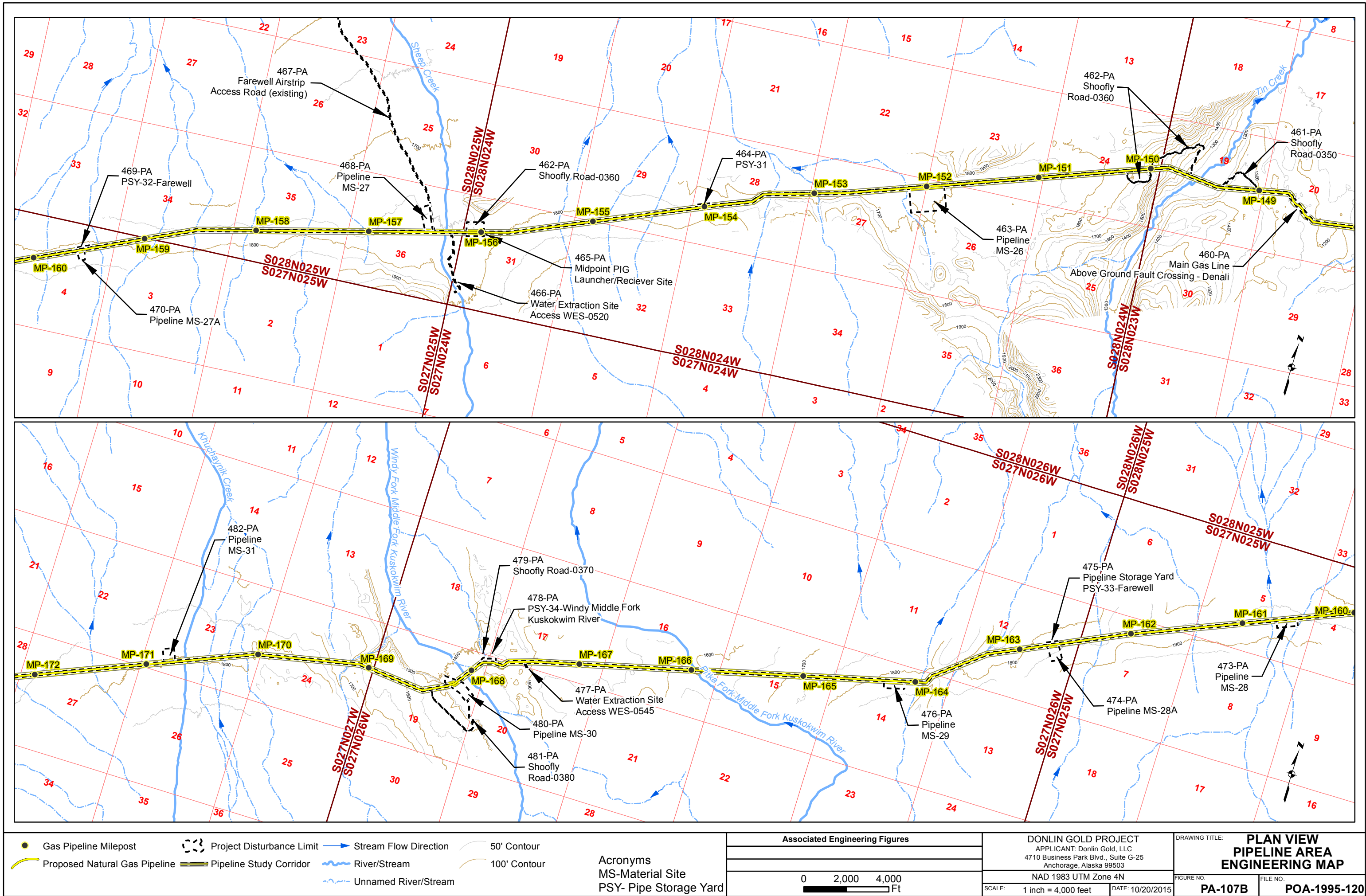


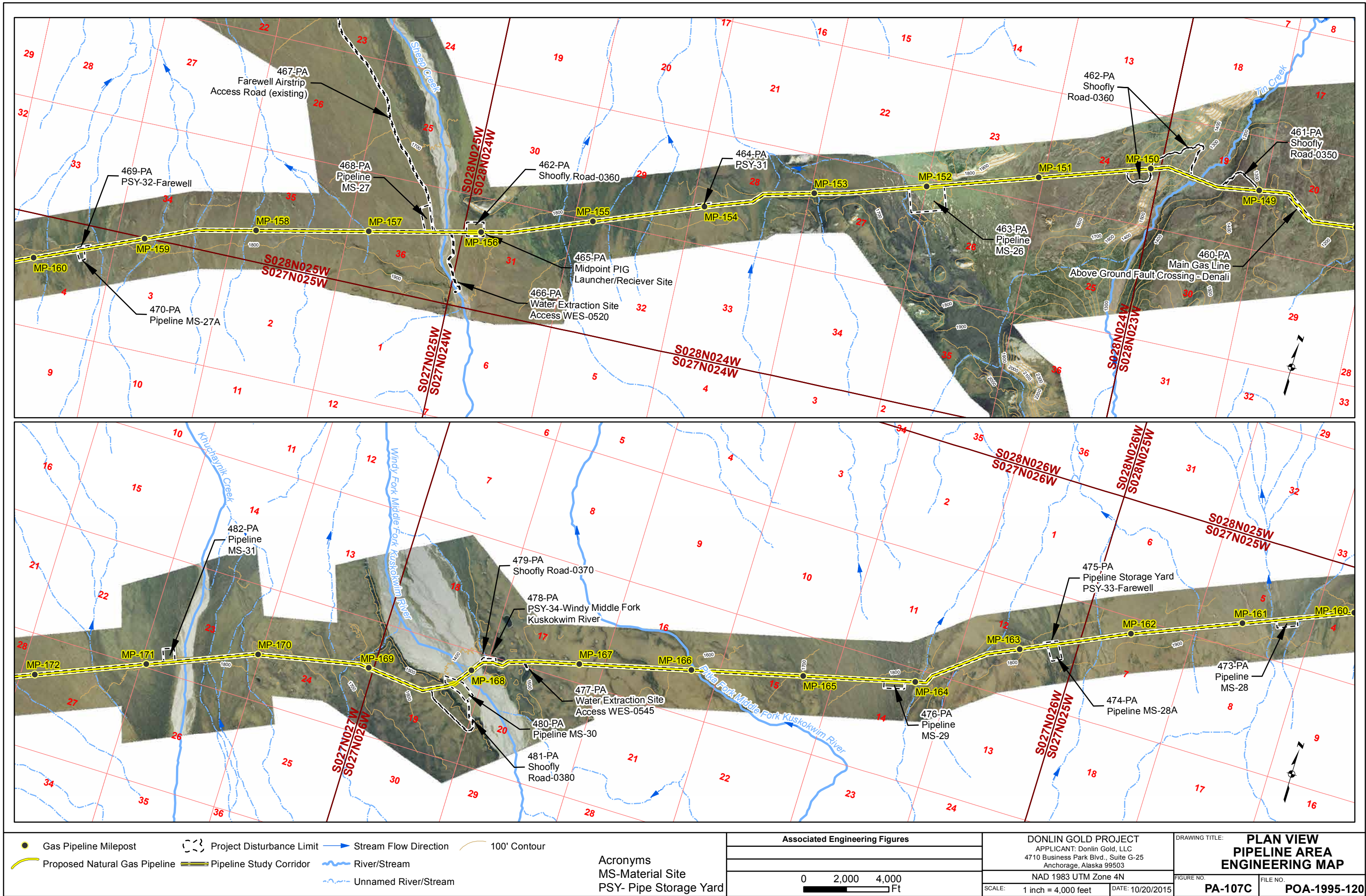


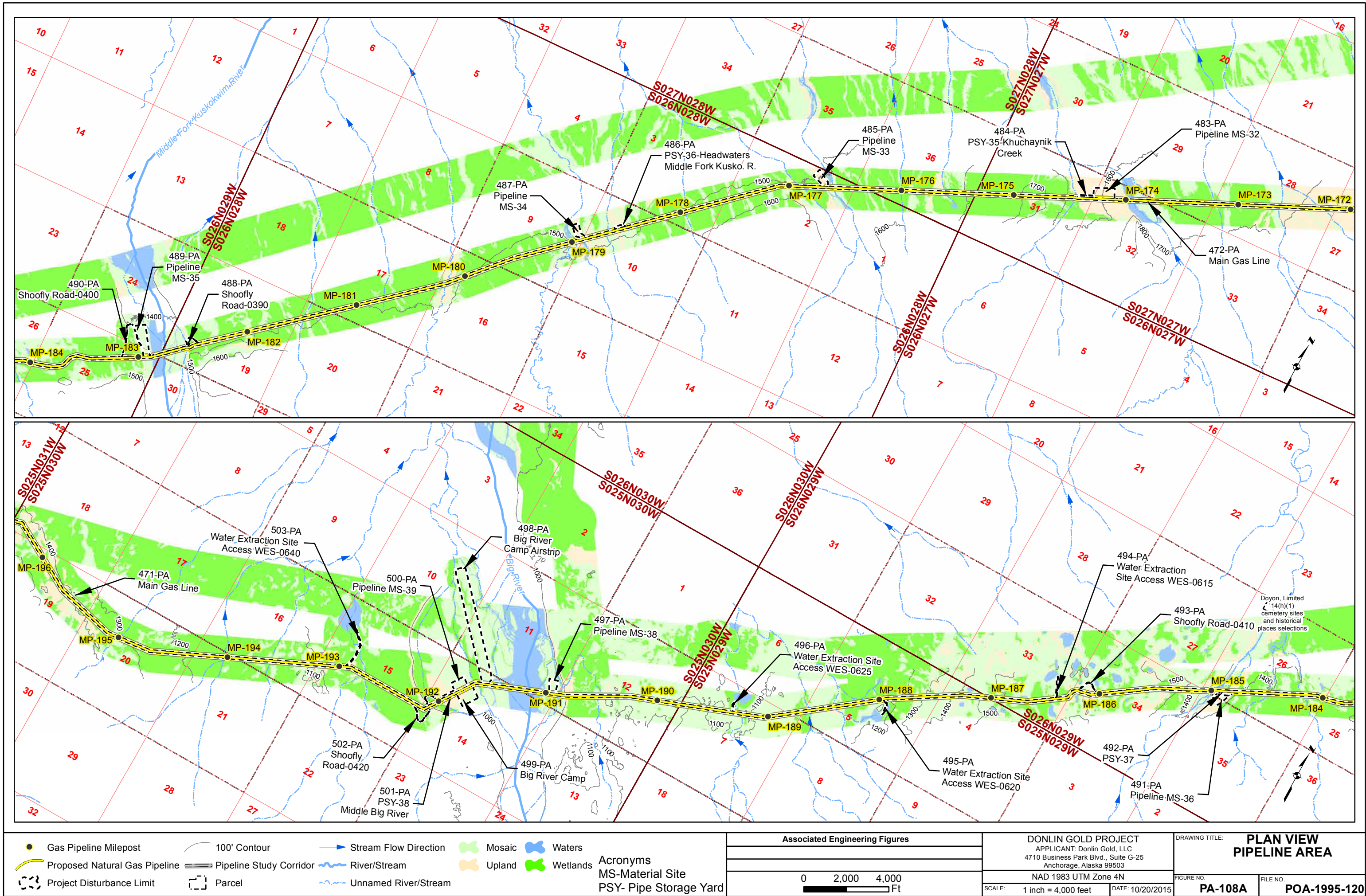


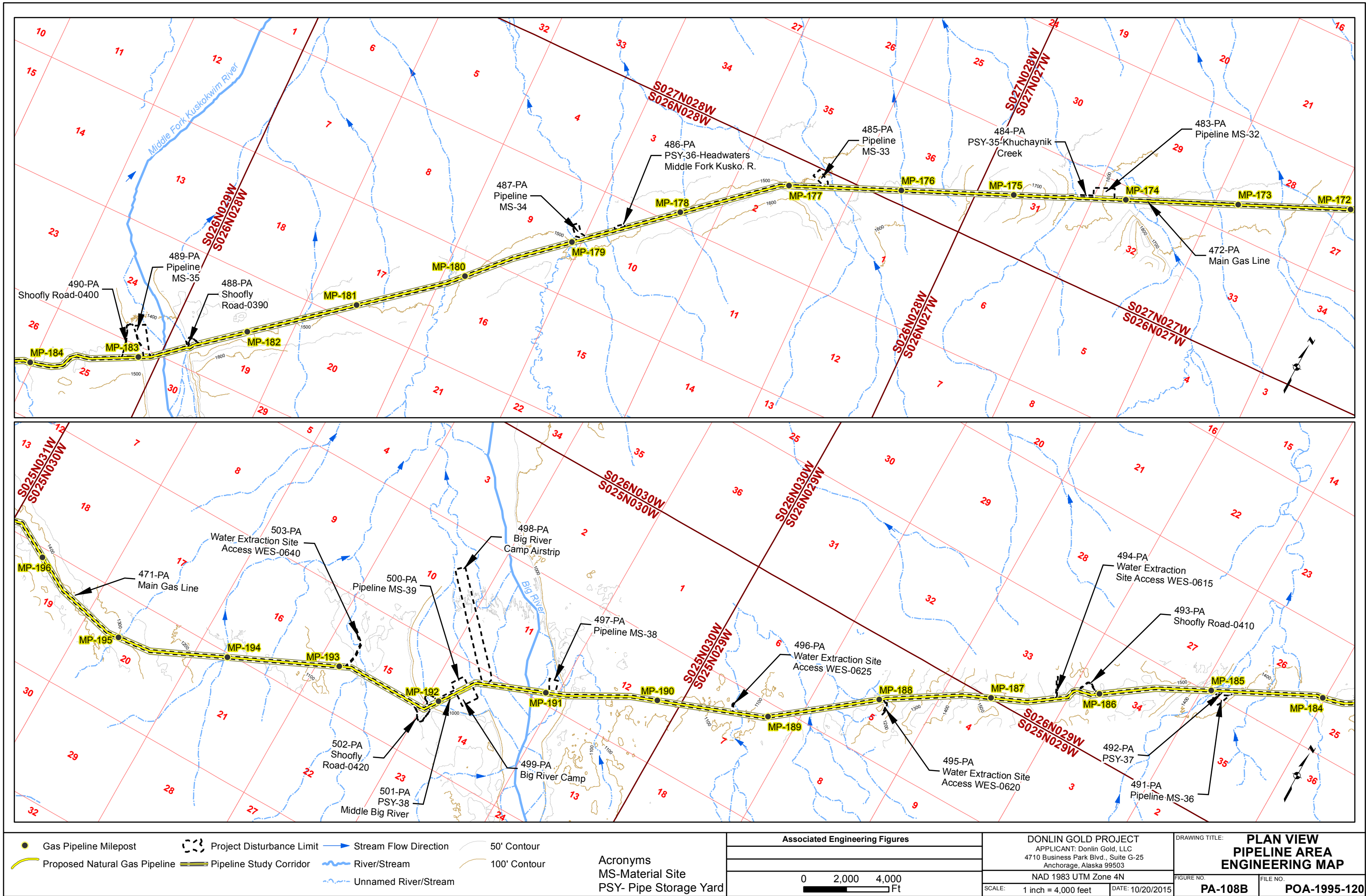


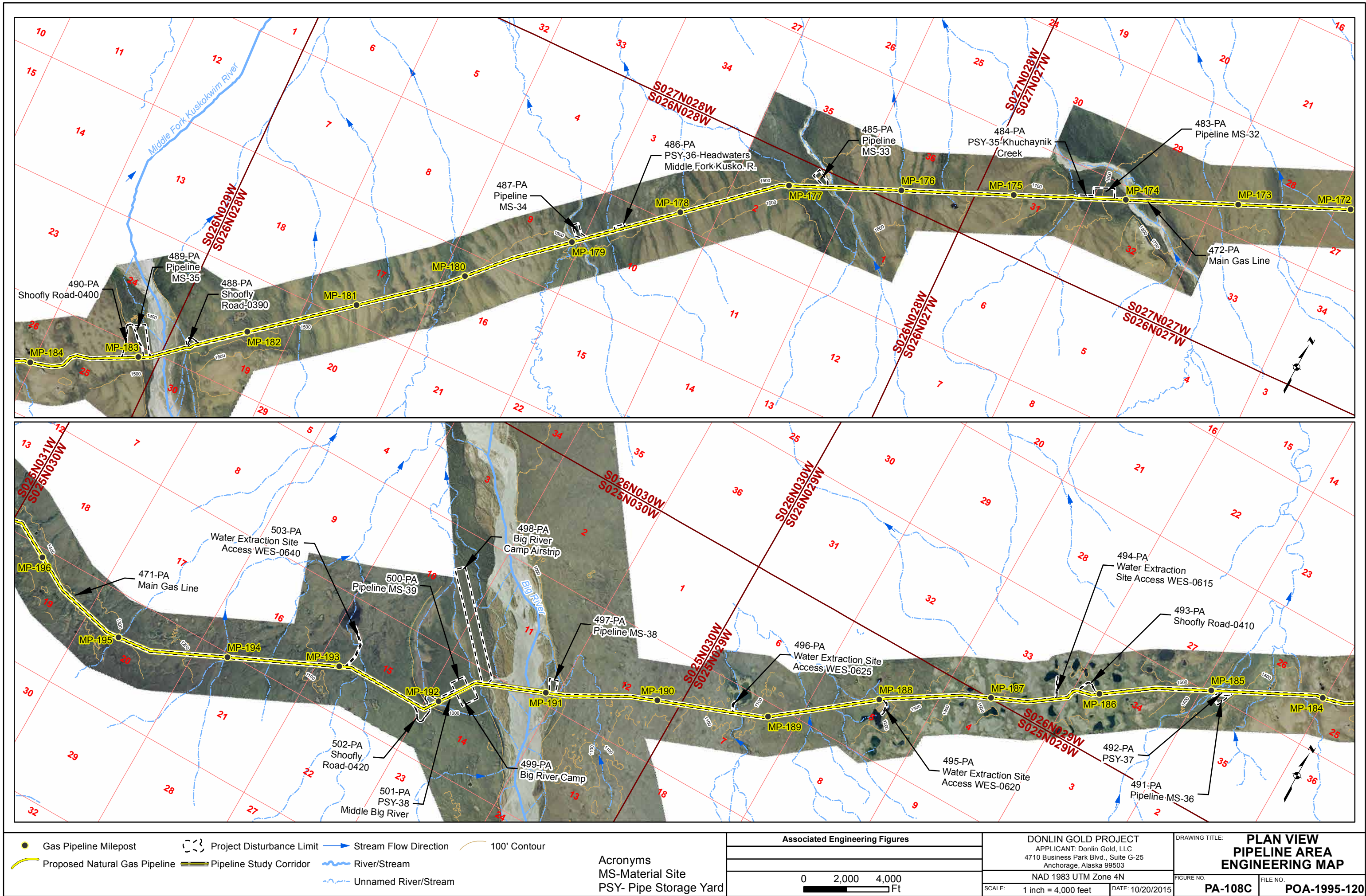


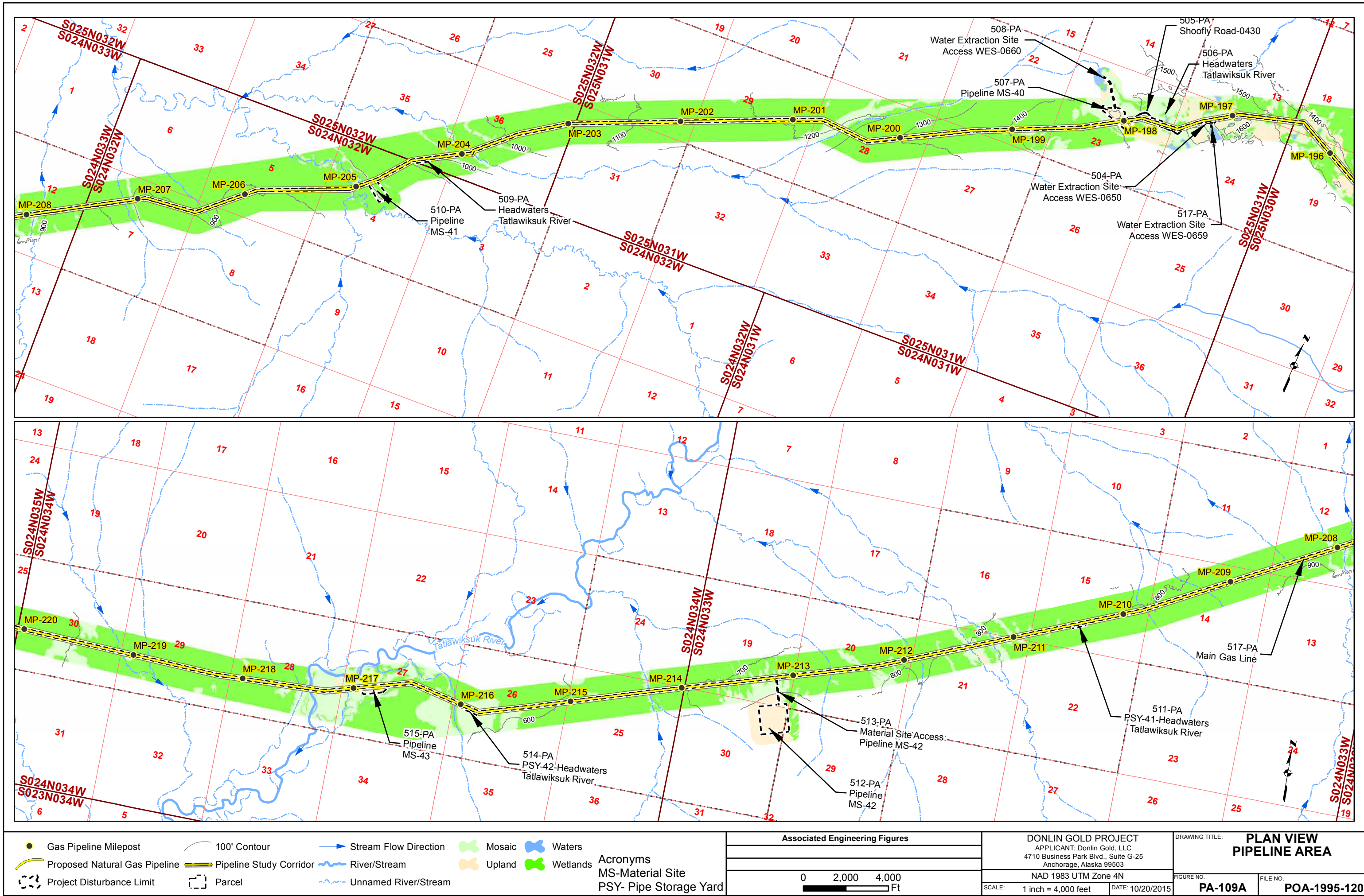


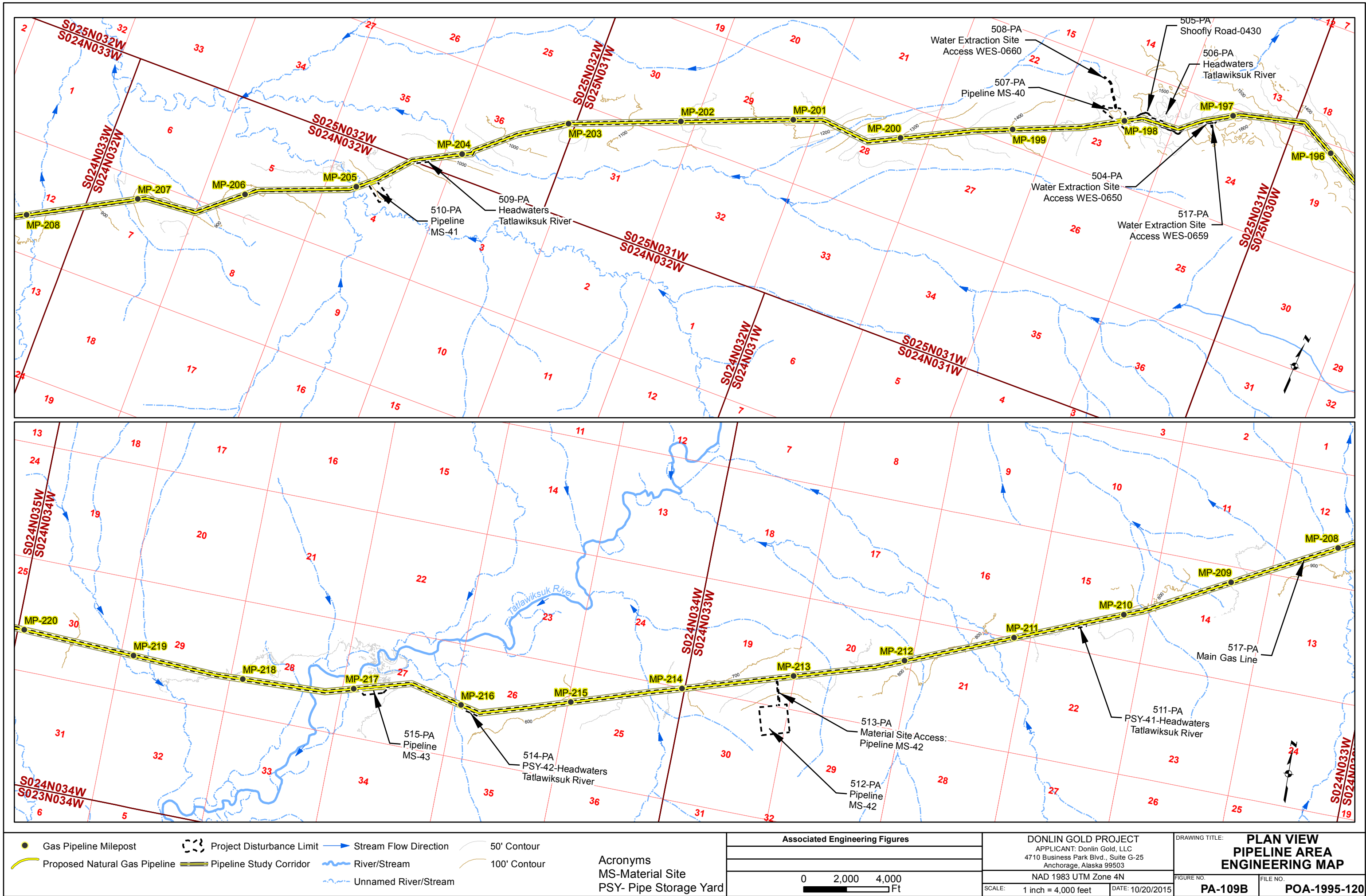


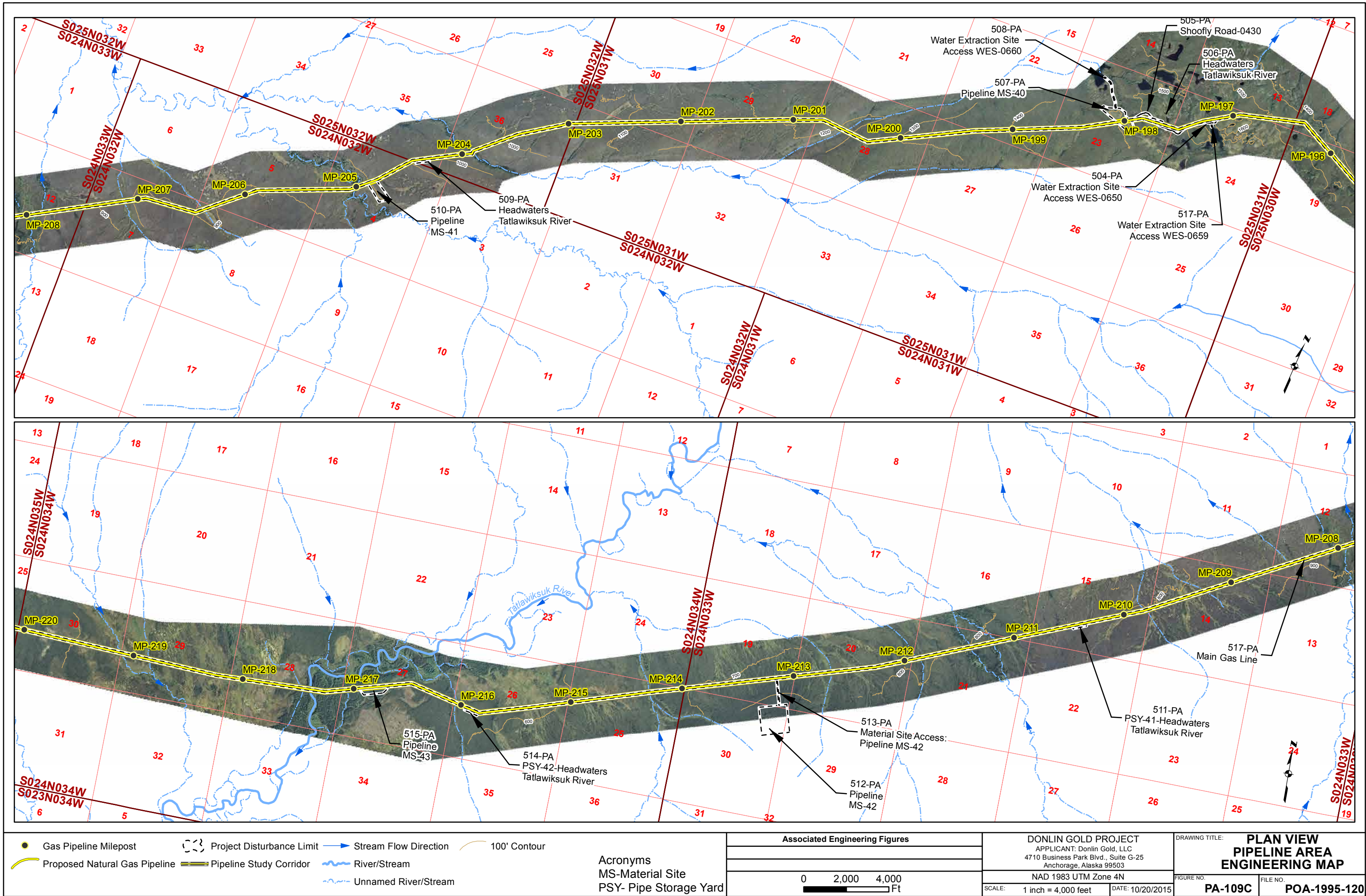


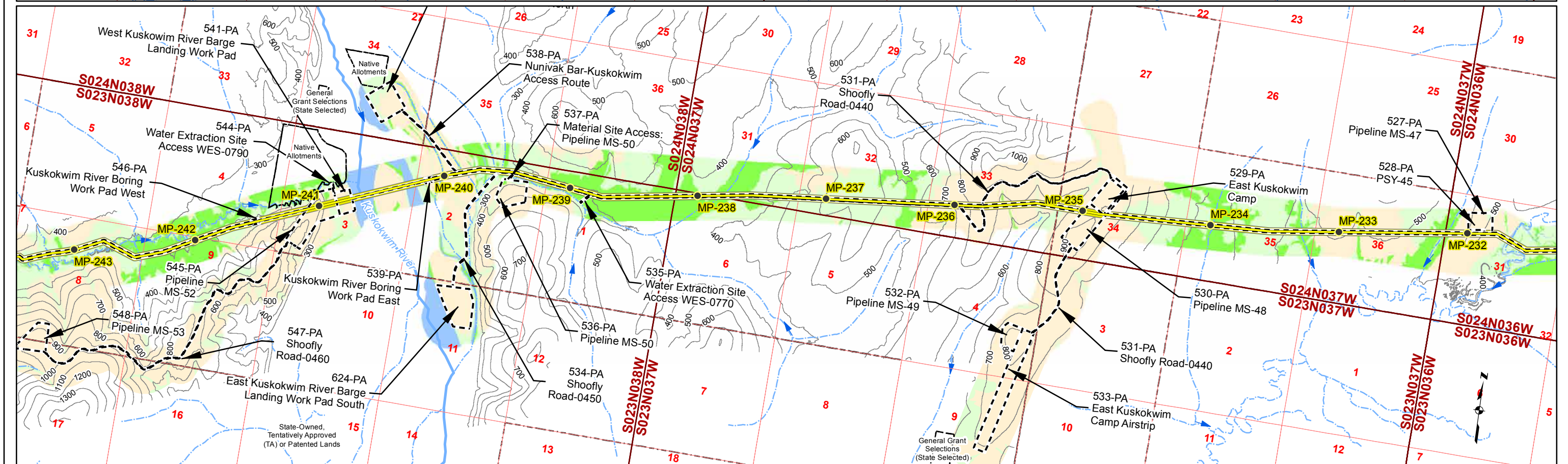
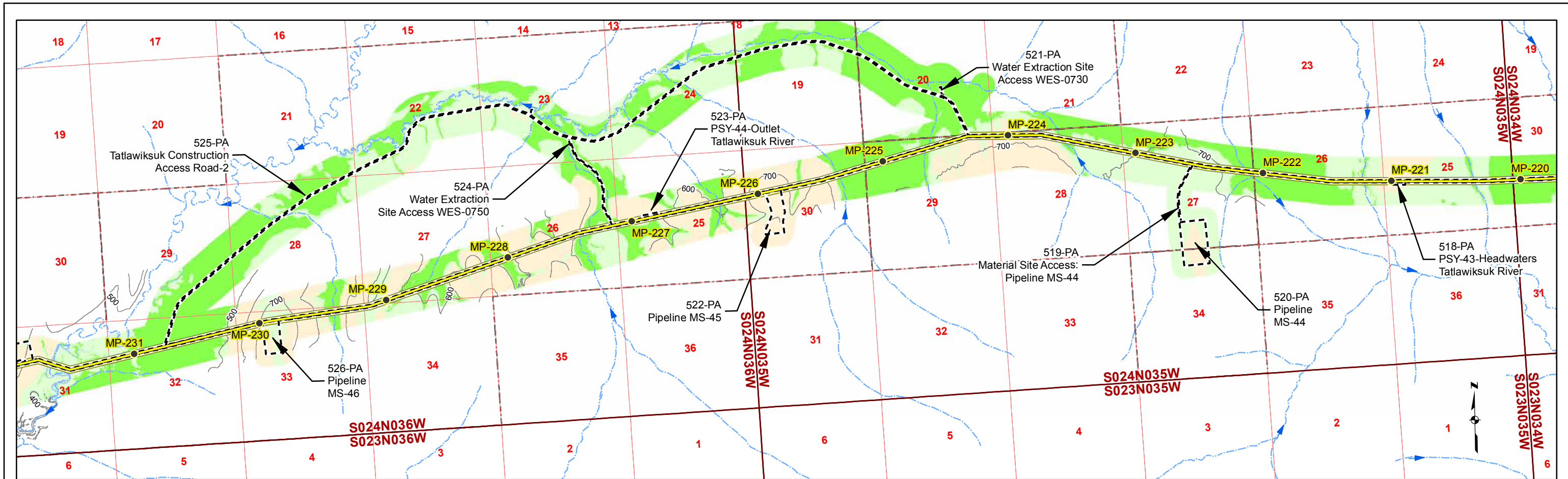




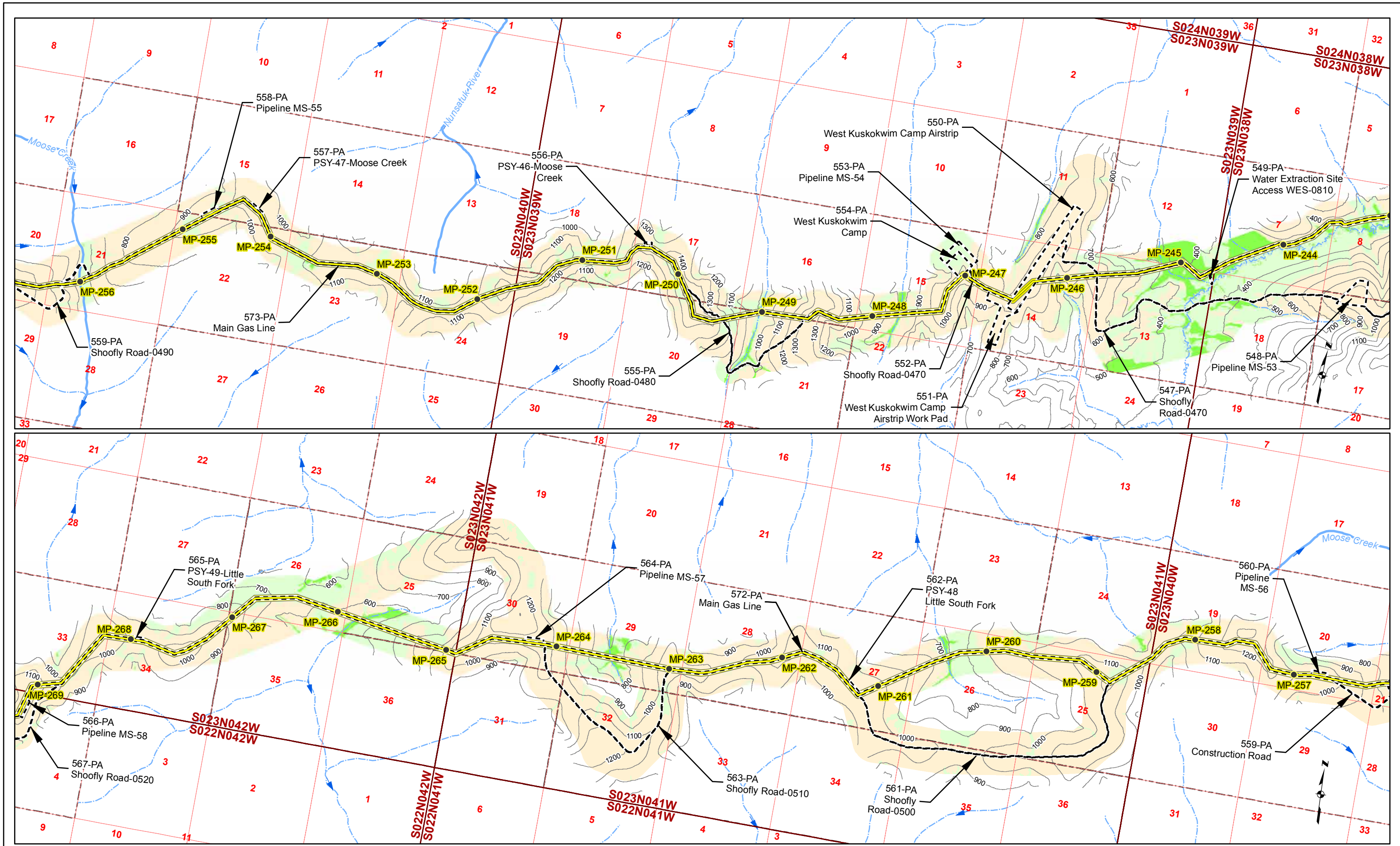






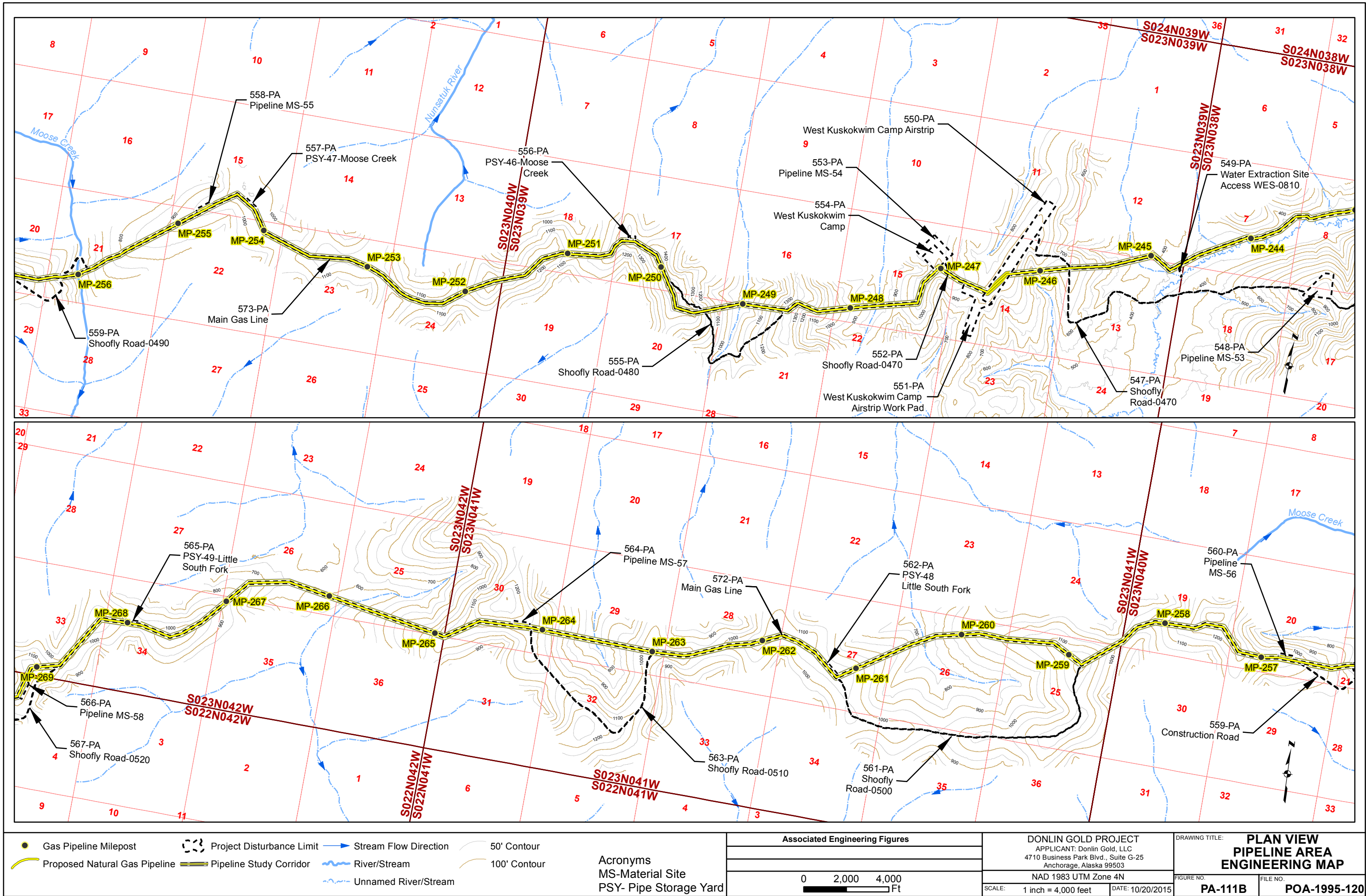


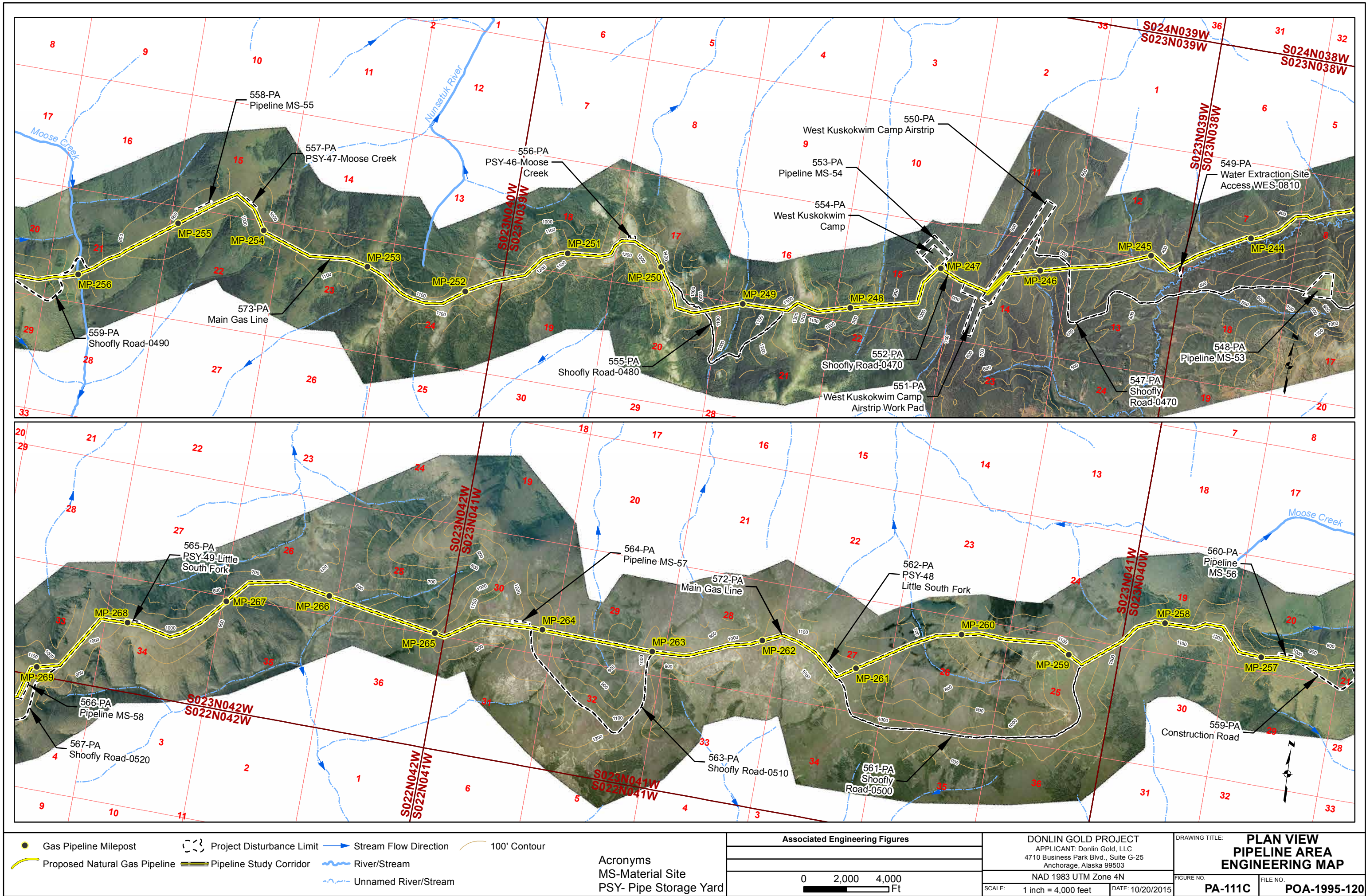
- Gas Pipeline Milepost - Proposed Natural Gas Pipeline - Project Disturbance Limit	100' Contour - Pipeline Study Corridor - Parcel	- Stream Flow Direction - River/Stream - Unnamed River/Stream	- Mosaic - Upland - Wetlands	Acronyms MS- Material Site PSY- Pipe Storage Yard	Associated Engineering Figures		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4710 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW PIPELINE AREA	
					0 2,000 4,000 Ft		NAD 1983 UTM Zone 4N		FIGURE NO. PA-110A	FILE NO. POA-1995-120
					SCALE: 1 inch = 4,000 feet		DATE: 10/20/2015			

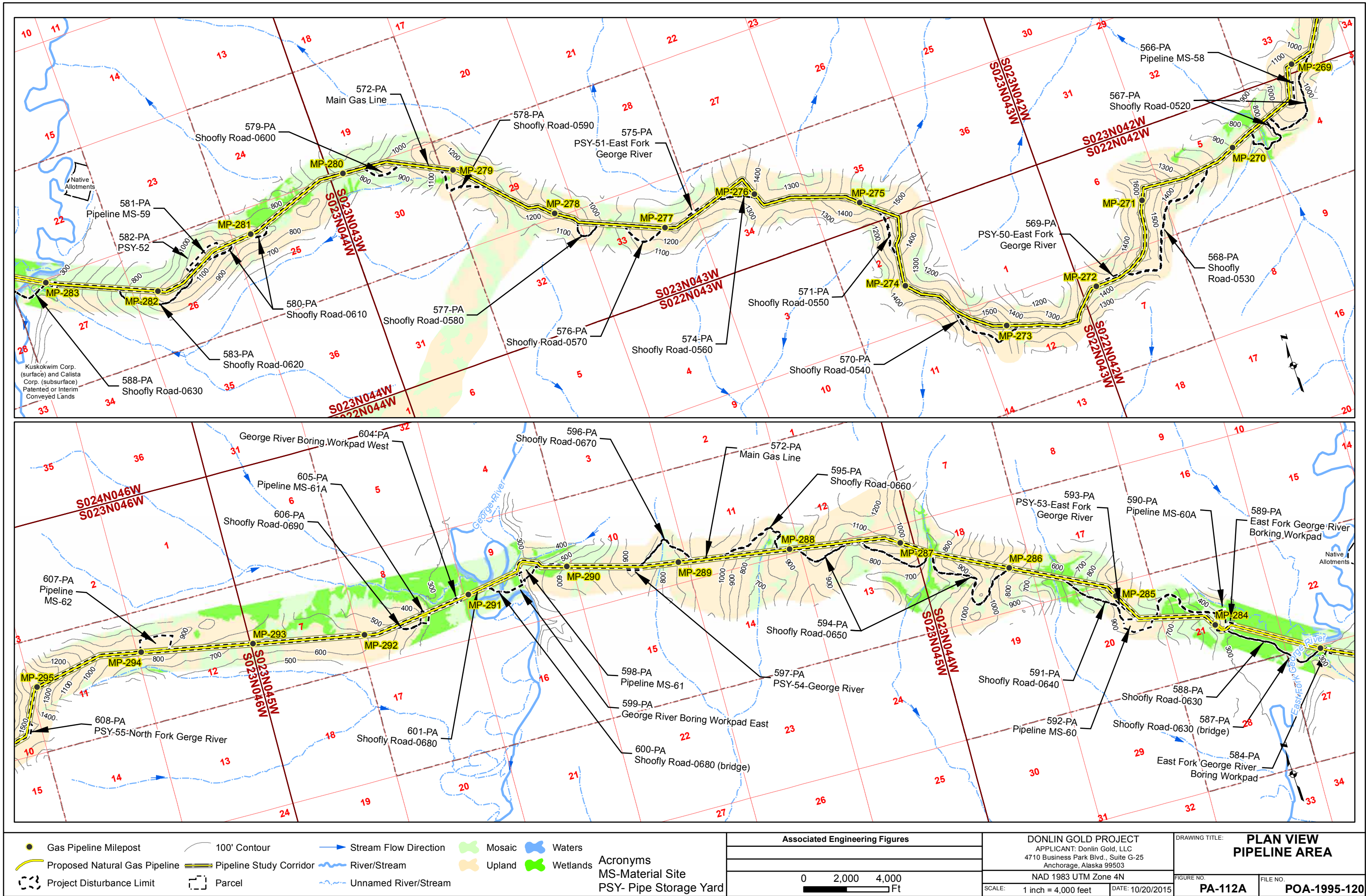


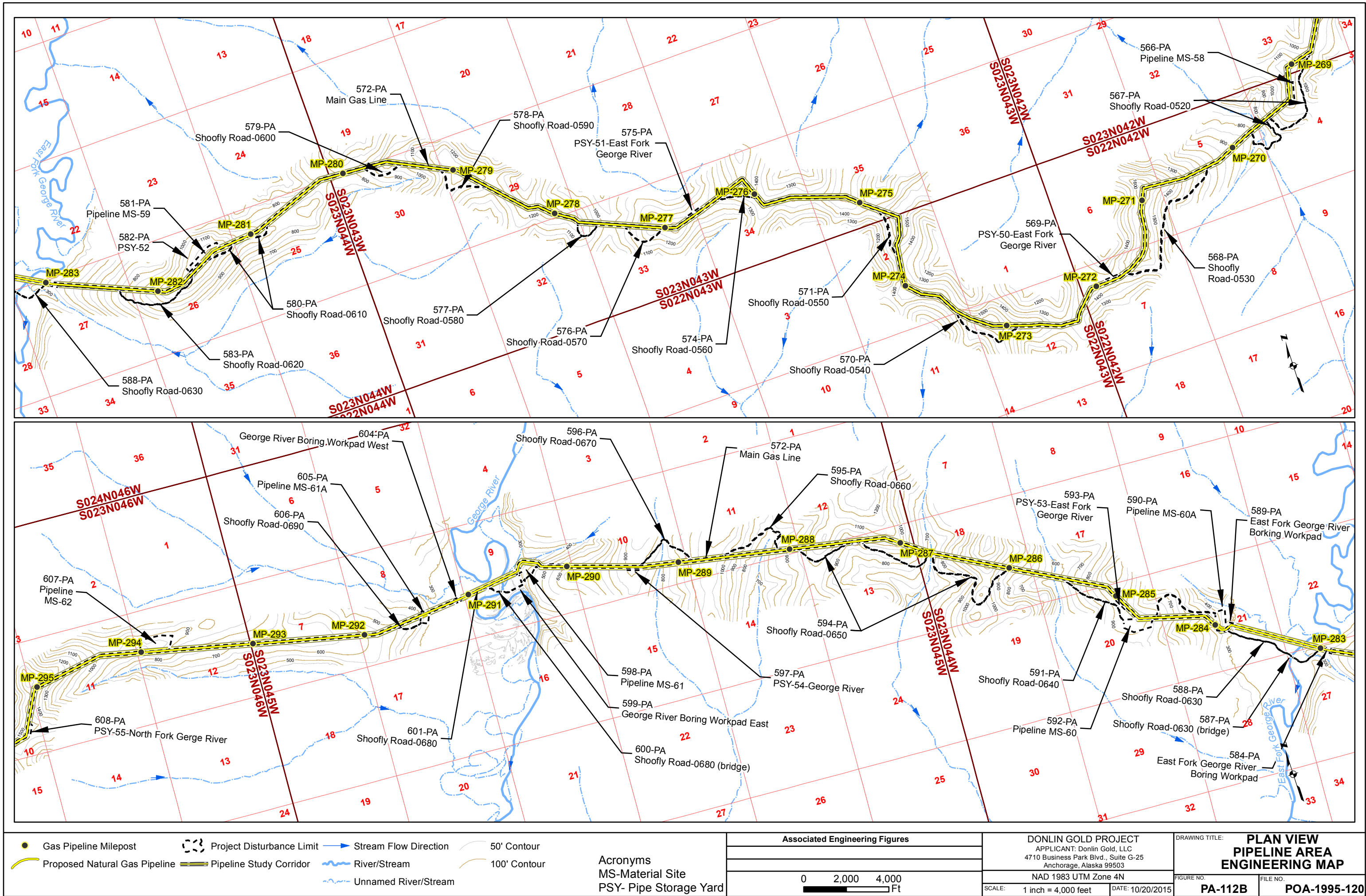
● Gas Pipeline Milepost — Proposed Natural Gas Pipeline --- Project Disturbance Limit 100' Contour — Pipeline Study Corridor - Parcel - Stream Flow Direction - River/Stream - Unnamed River/Stream - Mosaic - Upland - Wetlands	Acronyms MS- Material Site PSY- Pipe Storage Yard	Associated Engineering Figures		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4710 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: PLAN VIEW PIPELINE AREA	
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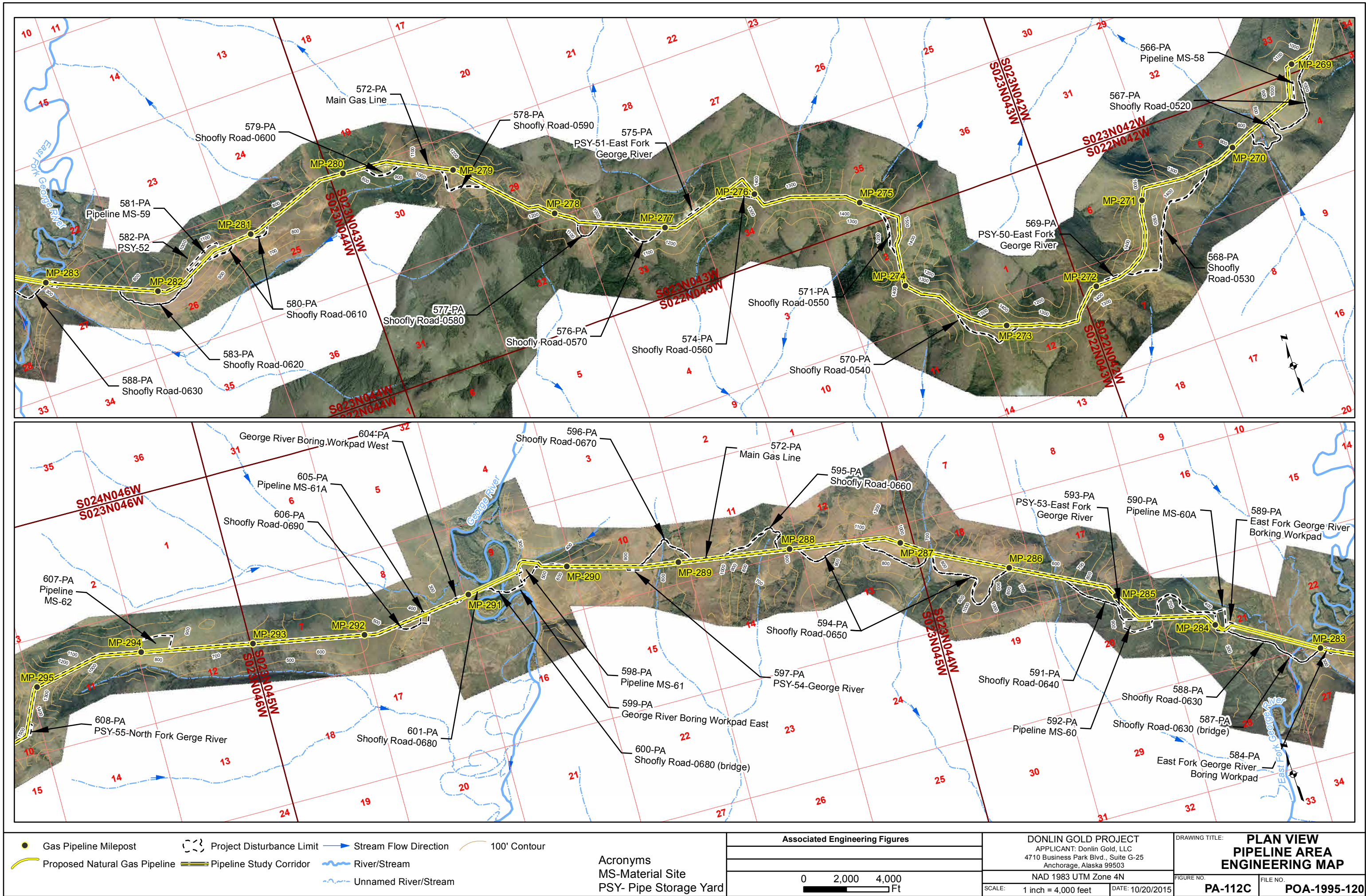
SCALE: 1 inch = 4,000 feet DATE: 10/20/2015

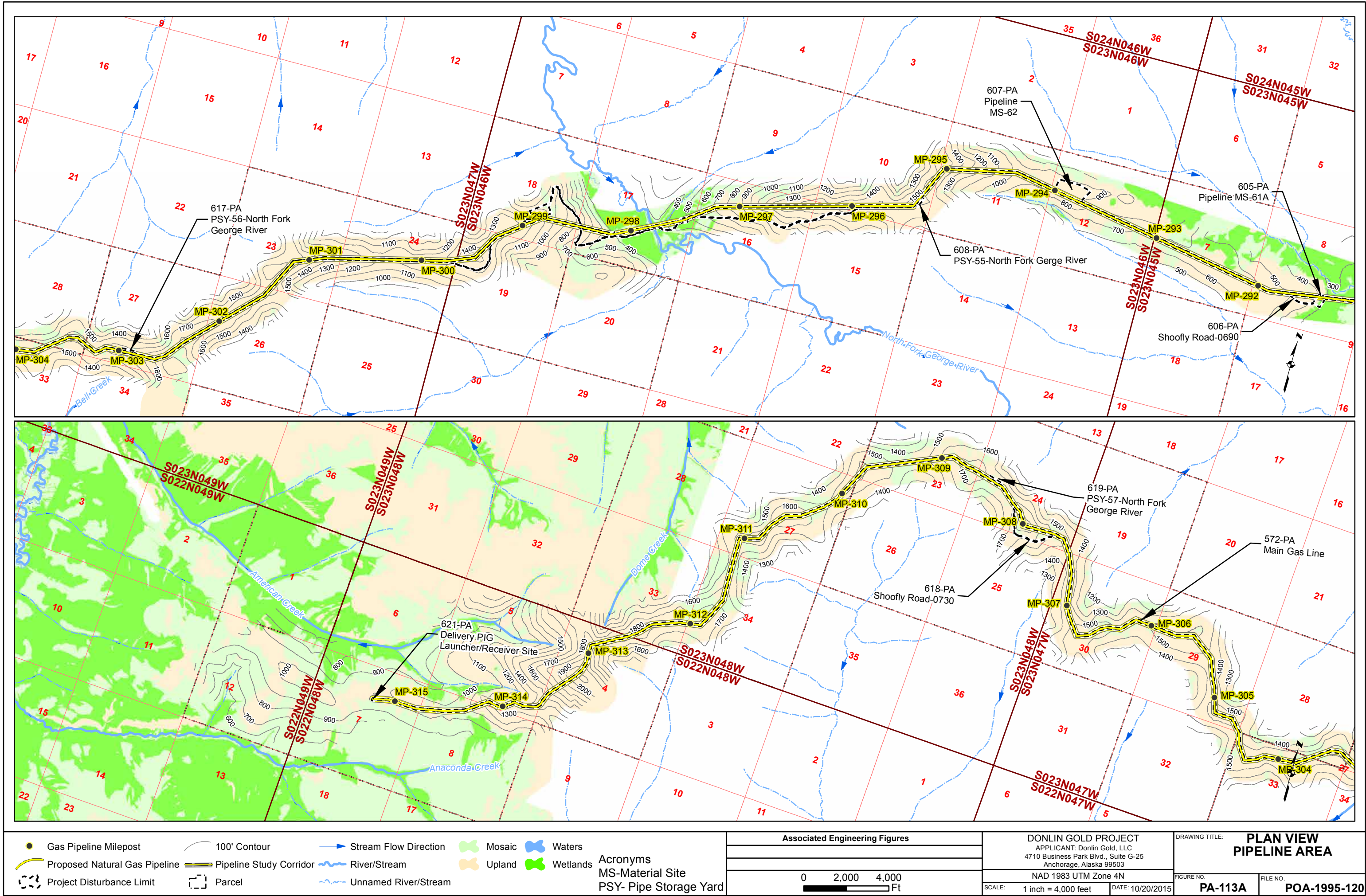


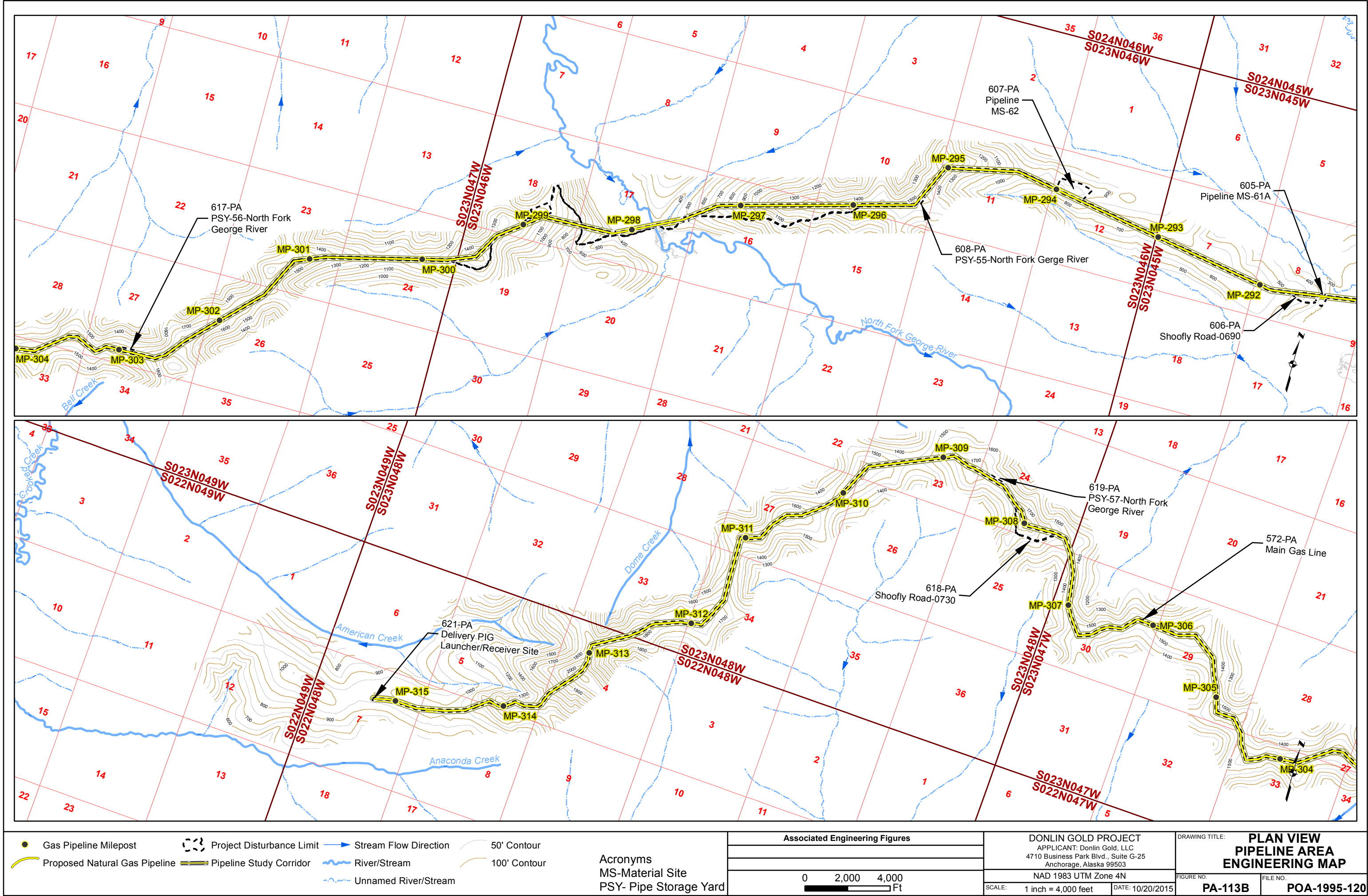


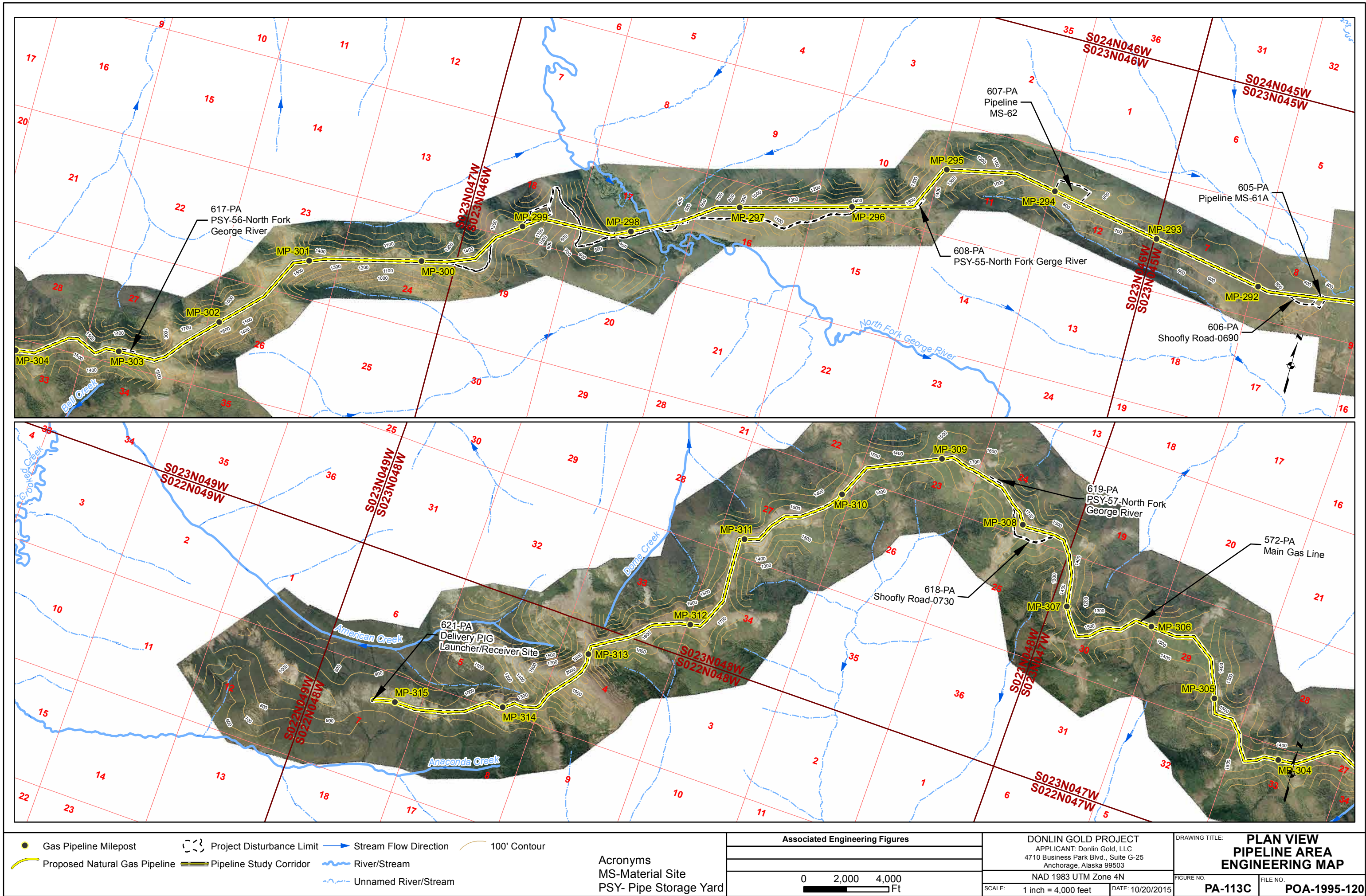


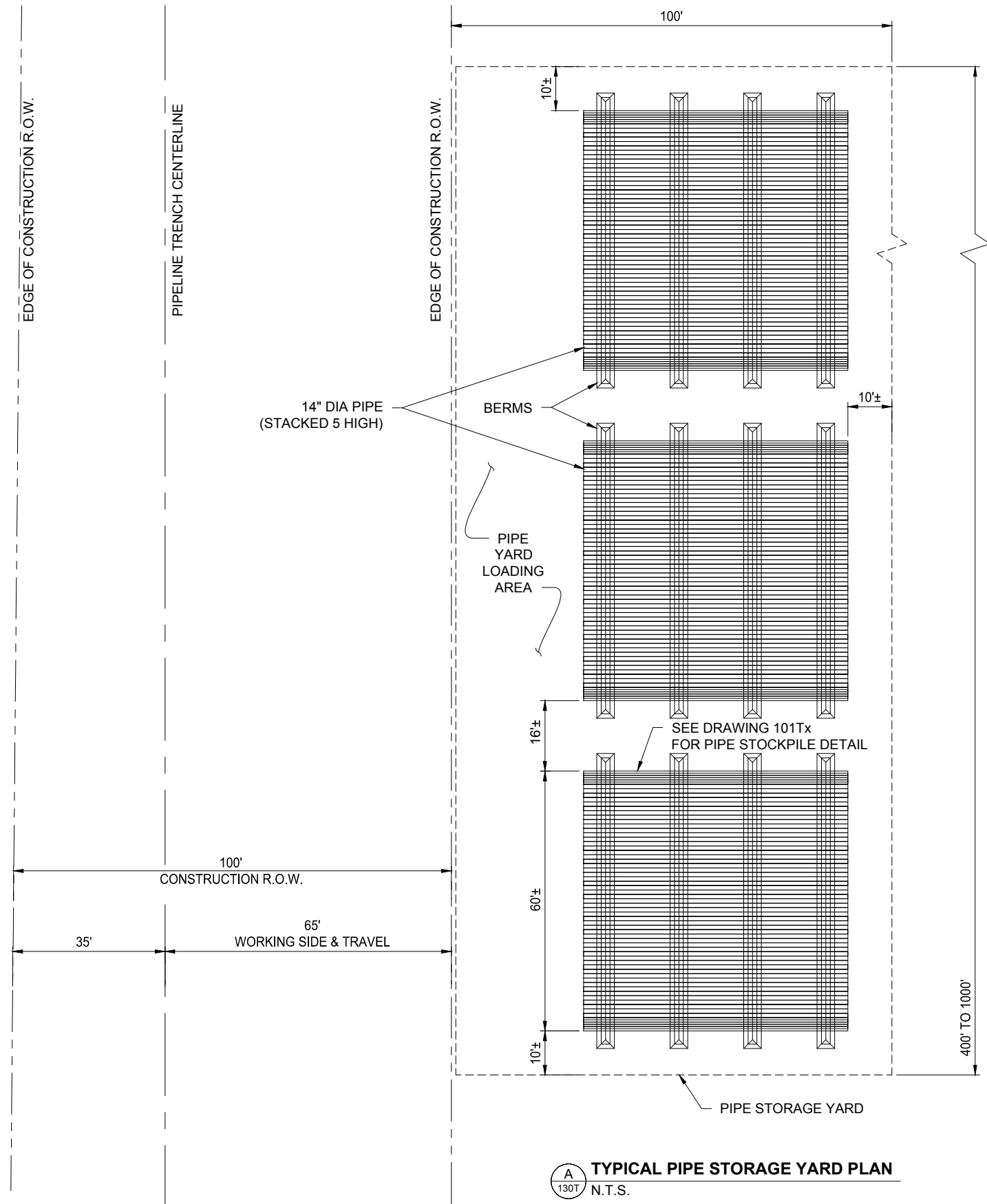








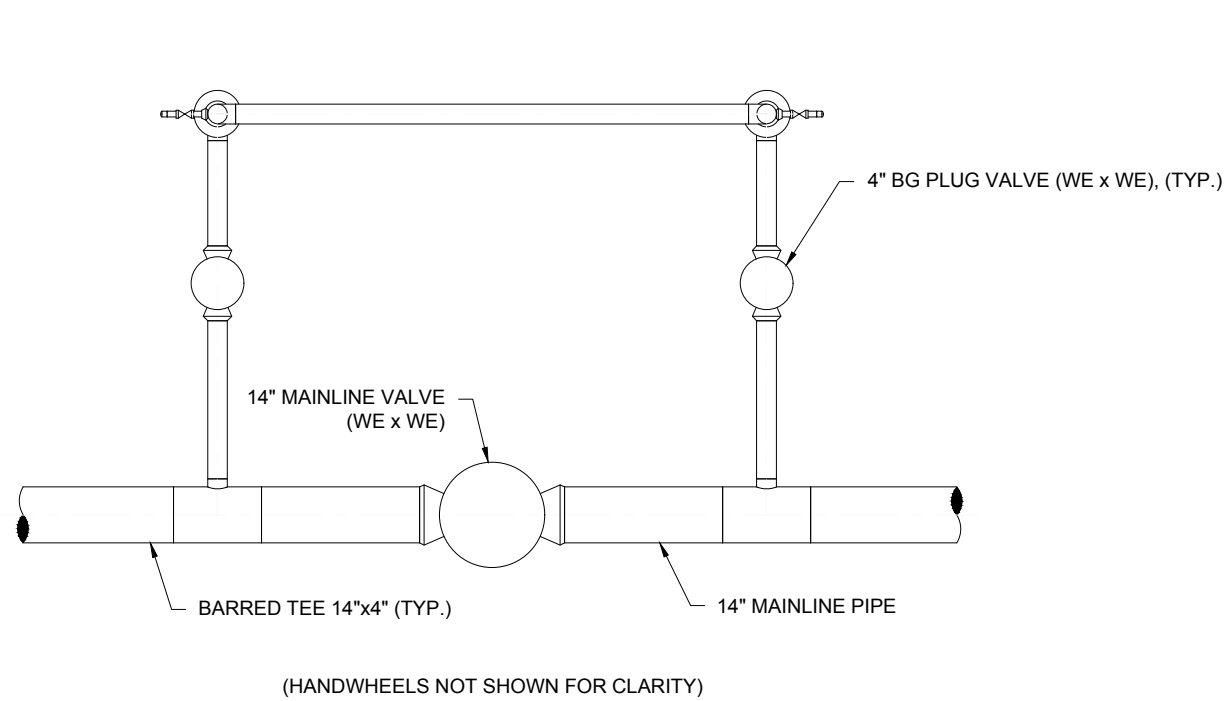




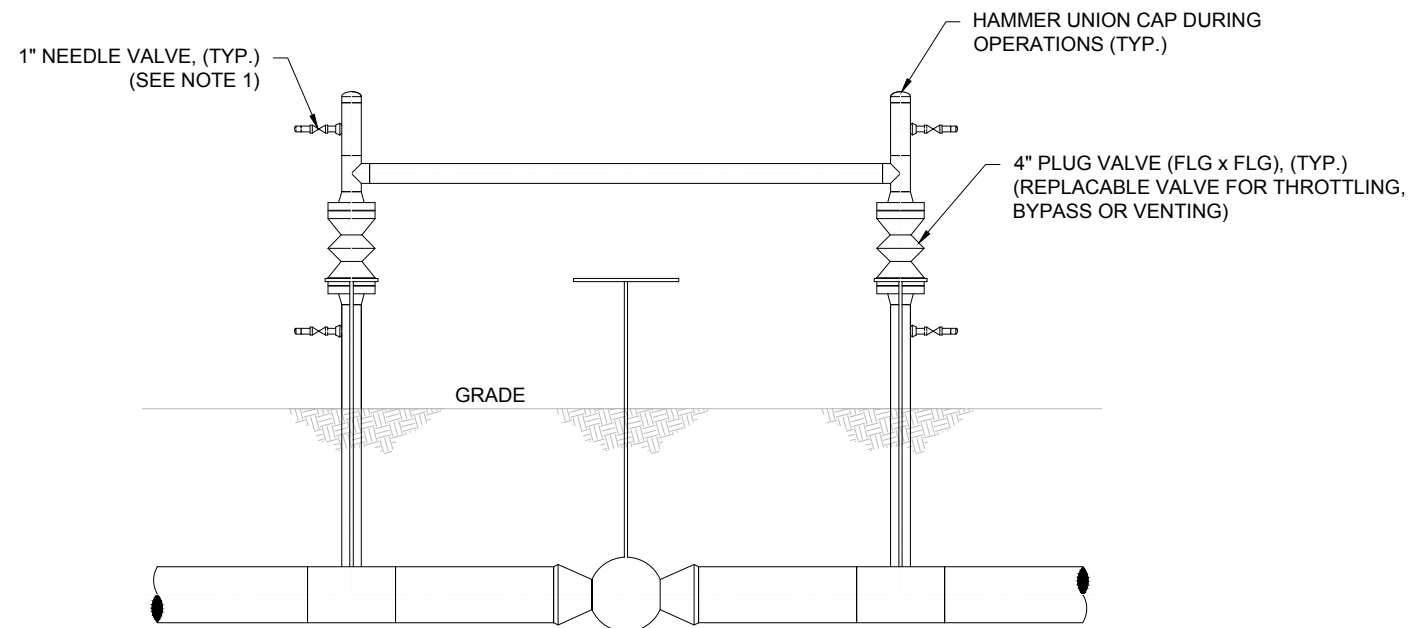
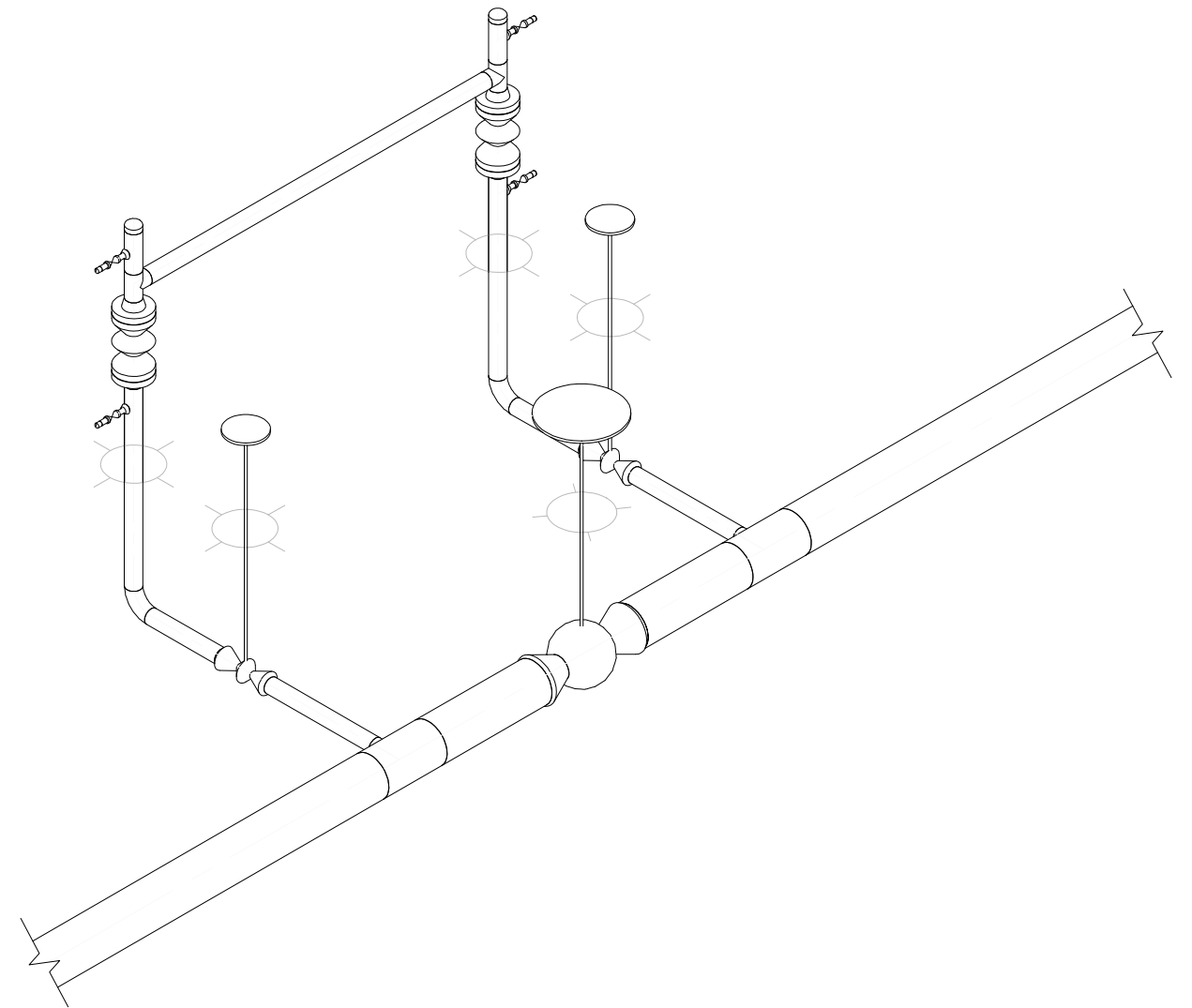
A
130T

TYPICAL PIPE STORAGE YARD PLAN
N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P04W-TYPT-01.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL PIPE STORAGE YARD	
	SCALE: AS SHOWN		DATE: 8/31/2015		FIGURE NO. PA-130T	FILE NO. POA-1995-120

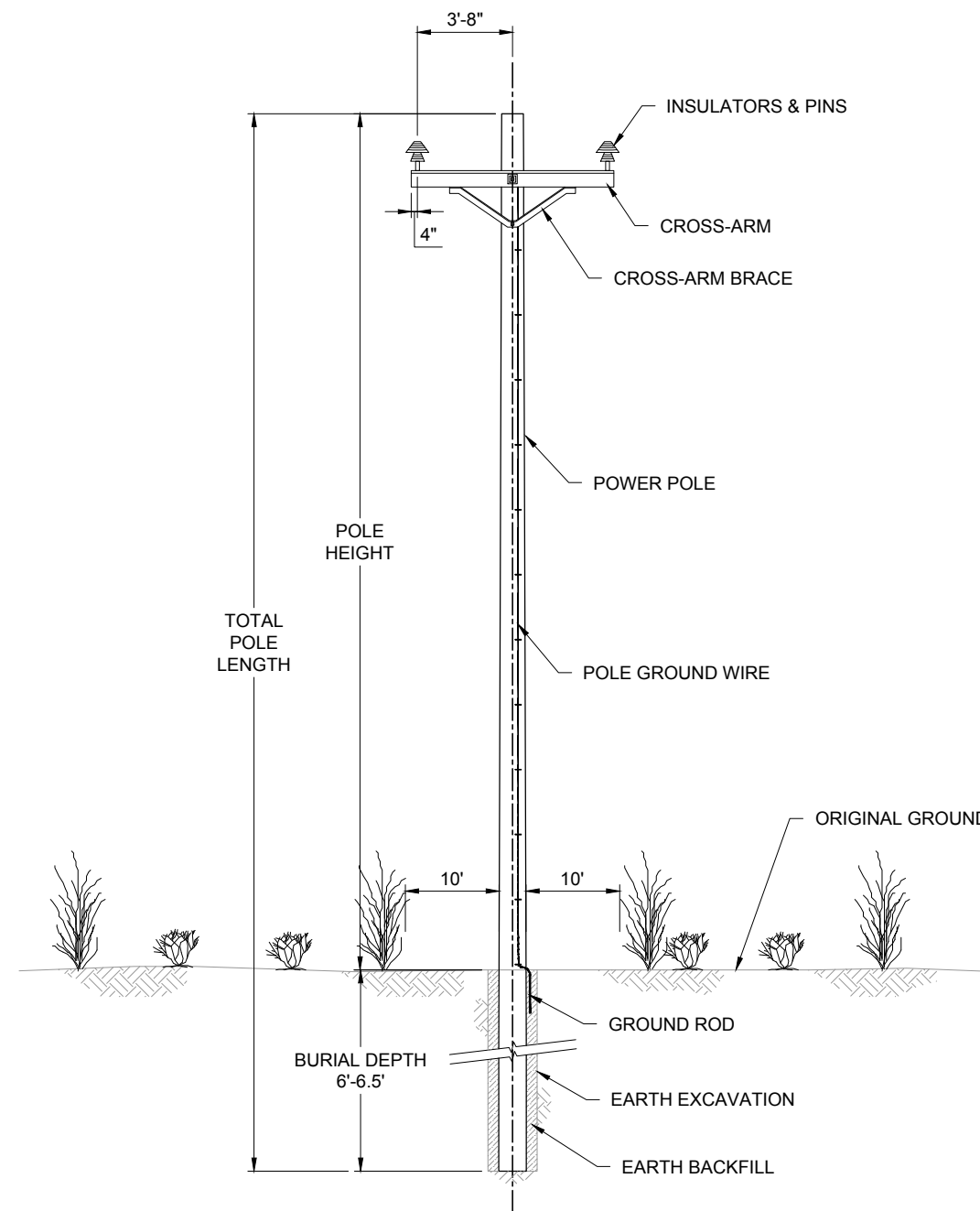


A **MAINLINE BLOCK VALVE ASSEMBLY - PLAN**
 132T SCALE 1/4" = 1'-0"



B **MAINLINE BLOCK VALVE ASSEMBLY - ELEVATION**
 132T SCALE 1/4" = 1'-0"

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01M-DTVA-02.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		MAINLINE BLOCK VALVE ASSEMBLY	
	SCALE: AS SHOWN		DATE: 8/31/2015		FIGURE NO. PA-132T	FILE NO. POA-1995-120



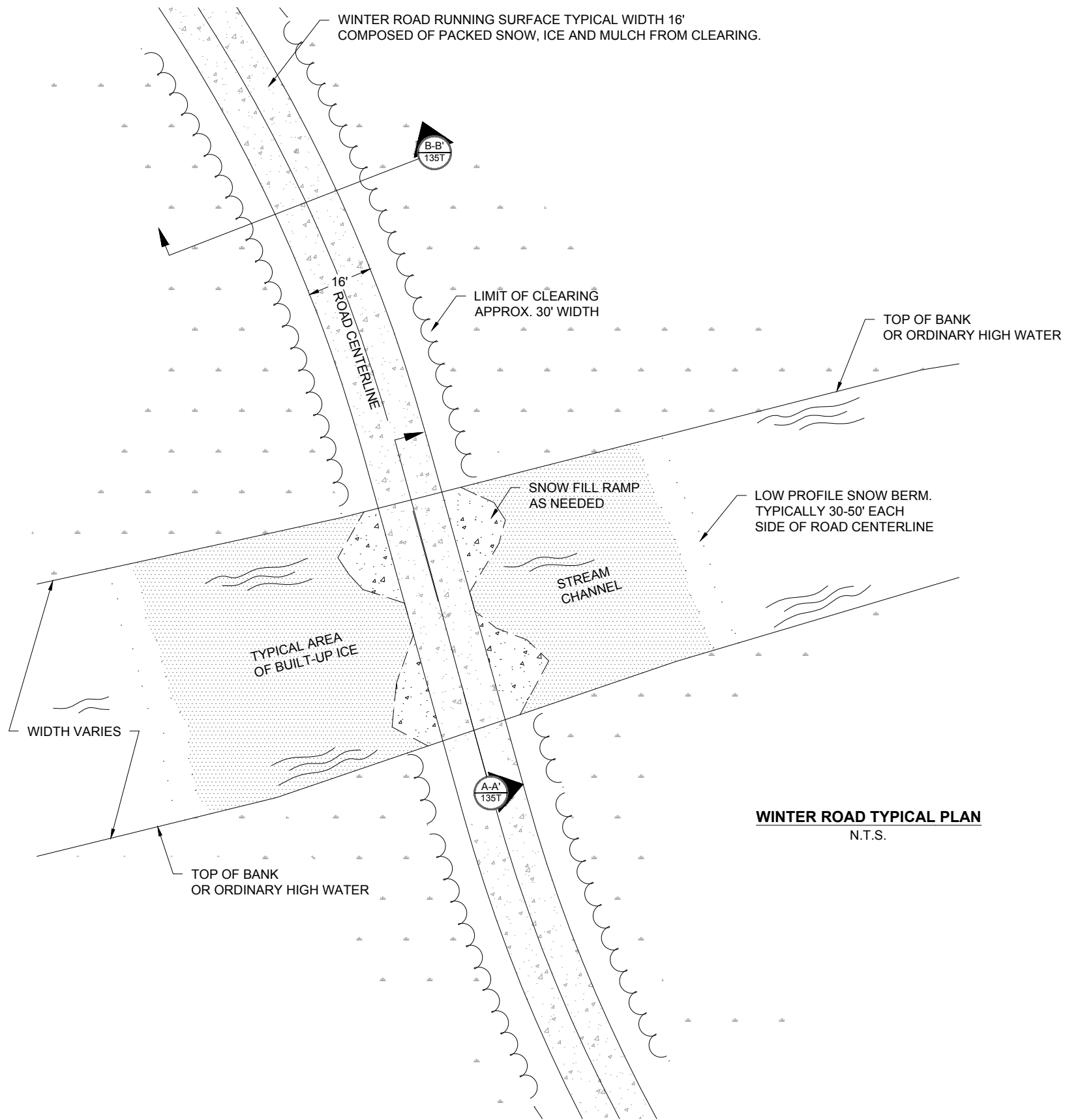
NOTES:

1. CLEARING LIMITS TO BE MIN. 10' EACH SIDE OF POWER POLE.
2. MULCH AND ORGANIC DEBRIS FROM CLEARING TO REMAIN ON GROUND SURFACE.
3. SOIL NOT TO BE DISTURBED EXCEPT AT SPECIFIC LOCATIONS AS PERMITTED.
4. DIMENSIONS ARE APPROXIMATE.

POWERPOLE SECTION
N.T.S.

A
133T

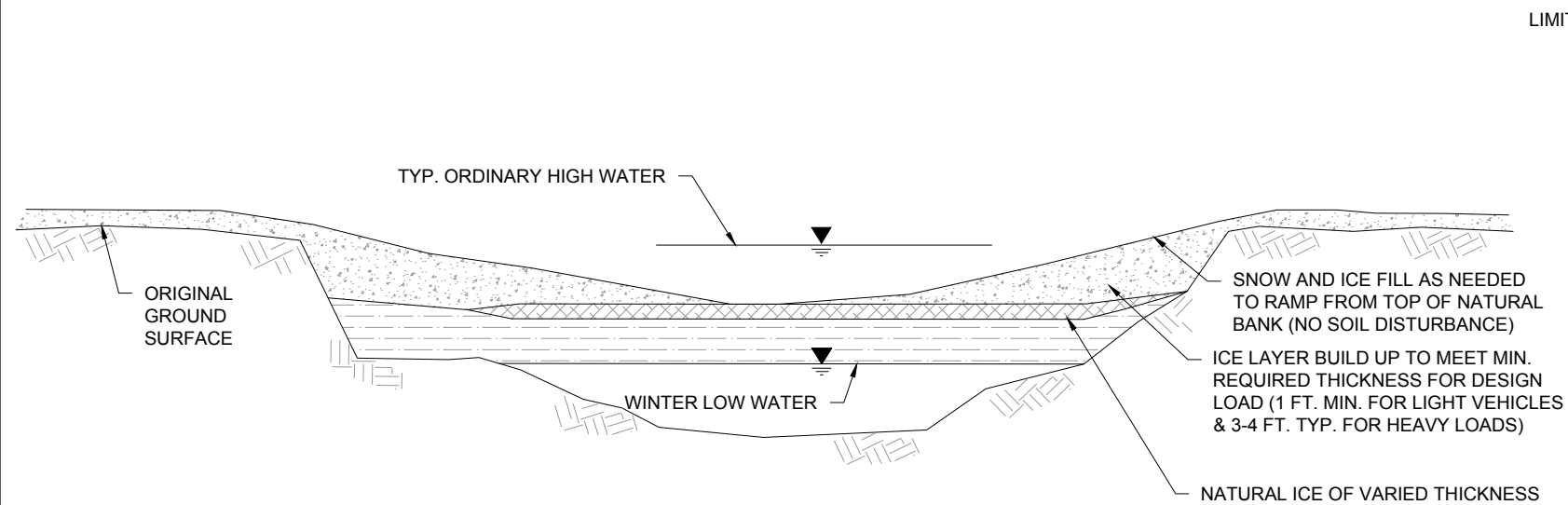
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P09E-DT-EE_01.dwg (BAKER) SEP 2014		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		POWERLINE TYPICAL POLE CLEARING LIMITS DETAIL	
			SCALE: AS SHOWN		FIGURE NO. PA-133T	FILE NO. POA-1995-120



NOTES:

1. REFER TO CROSS SECTION DETAILS (A) & (B).
2. ICE SURFACE TO BE CLEARED OF SNOW 30-50' EACH SIDE OF ROAD CENTERLINE TO AUGMENT ICE THICKENING.
3. CLEAN SNOW FOR FILL MAY BE ACCUMULATED FROM NATURAL OPEN AREAS NEAR CROSSING SITE AND ICE SURFACE.
4. TO THE EXTENT POSSIBLE, CROSSING TO BE ORIENTED PERPENDICULAR TO ACTIVE CHANNEL.
5. WATER FOR BUILDING ICE TO BE TAKEN FROM STREAM AT CROSSING LOCATION.
6. SNOW BERMS TO BE SHAPED FOR PASSAGE OF SNOWMACHINES AND SIGNAGE PLACED WARNING OF CROSSING.
7. SNOW BERMS TO DEFINE CROSSING SITE AND AID IN CONTAINING WATER DURING FLOODING TO BUILD ICE.
8. CROSSINGS SHALL BE DEVELOPED IN ACCORDANCE WITH STATE OF ALASKA FOREST RESOURCES AND PRACTICES REGULATIONS AS THEY ADDRESS WINTER ROADS/TRAILS AND STREAM CROSSINGS.

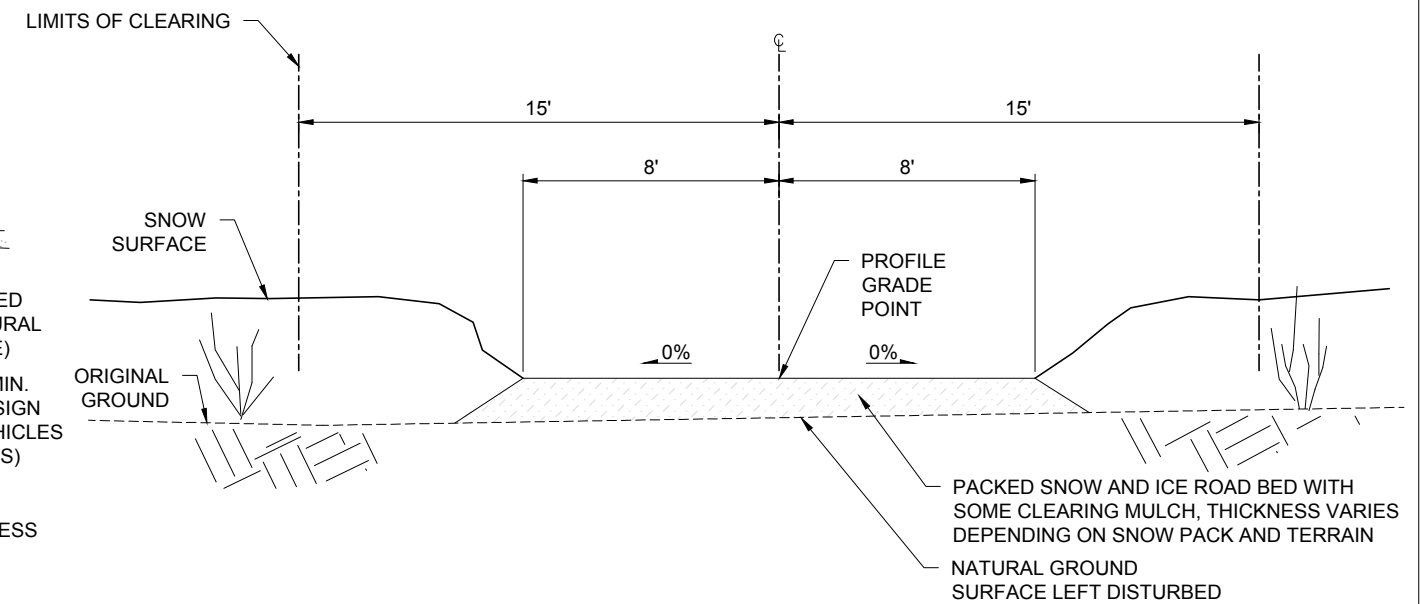
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P07C-TYSCW-01.dwg (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		WINTER ROAD TYPICAL DETAIL	
	SCALE: AS SHOWN		DATE: 9/9/2015		FIGURE NO. PA-134T	FILE NO. POA-1995-120



WINTER ROAD TYPICAL STREAM CROSSING SECTION A-A'
 134T N.T.S.

NOTES:

BEFORE DEVELOPMENT, ALL CROSSING LOCATIONS SHALL BE TESTED FOR ICE THICKNESS, WATER DEPTH AND EXTENT OF GROUNDED ICE. CLEAN SNOW FOR RAMP CONSTRUCTION MAY BE GATHERED FROM OPEN AREAS ADJACENT TO THE CROSSING SITE AND TRAIL. CROSSINGS SHALL BE DEVELOPED IN ACCORDANCE WITH STATE OF ALASKA FOREST RESOURCES AND PRACTICES REGULATIONS AS THEY ADDRESS WINTER ROADS/TRAILS AND STREAM CROSSINGS. ALL CROSSINGS SHALL BE ASSESSED BY A QUALIFIED ENGINEER AND APPROVED FOR USE.

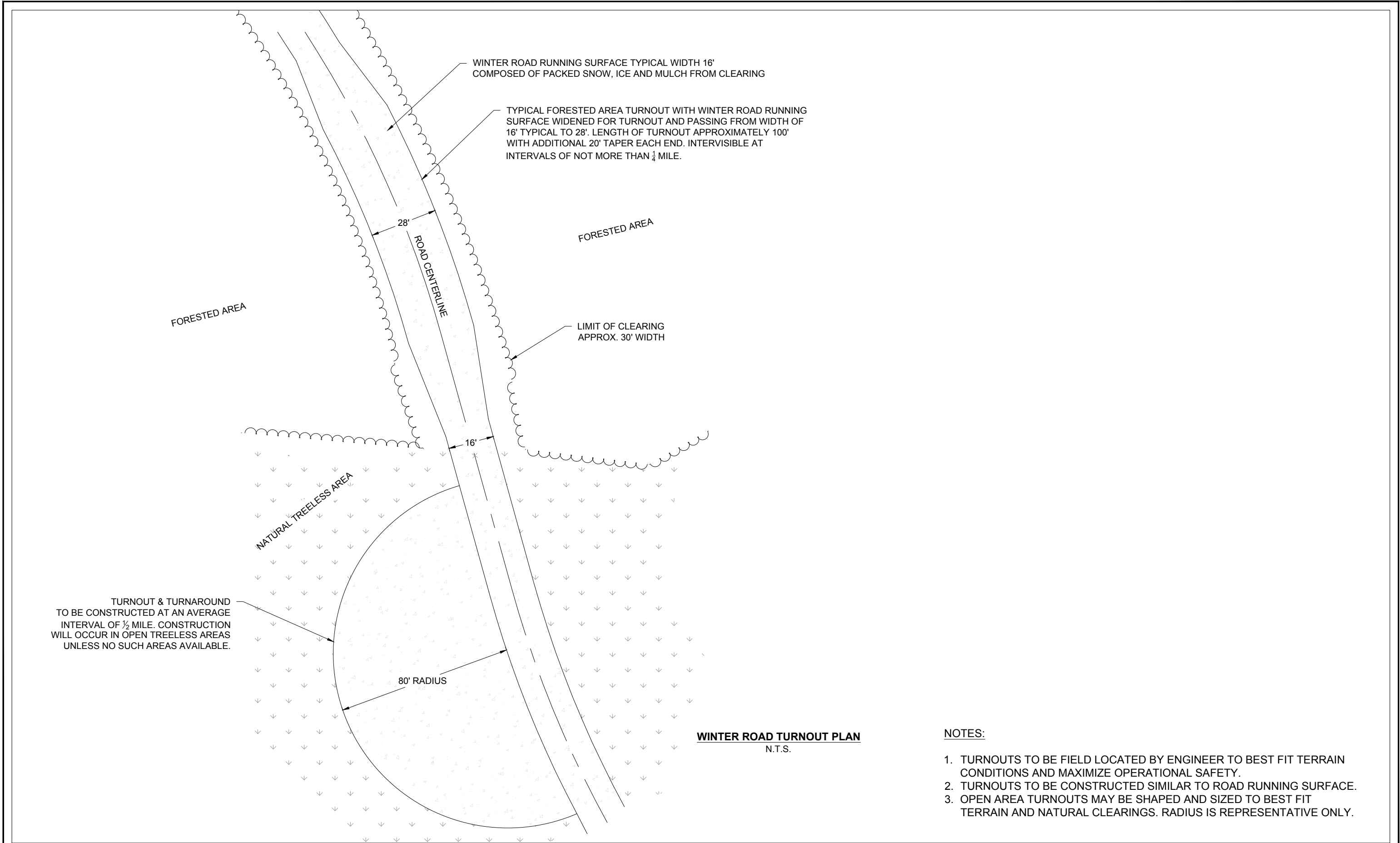


WINTER ROAD TYPICAL SECTION B-B'
 134T N.T.S.

NOTES:

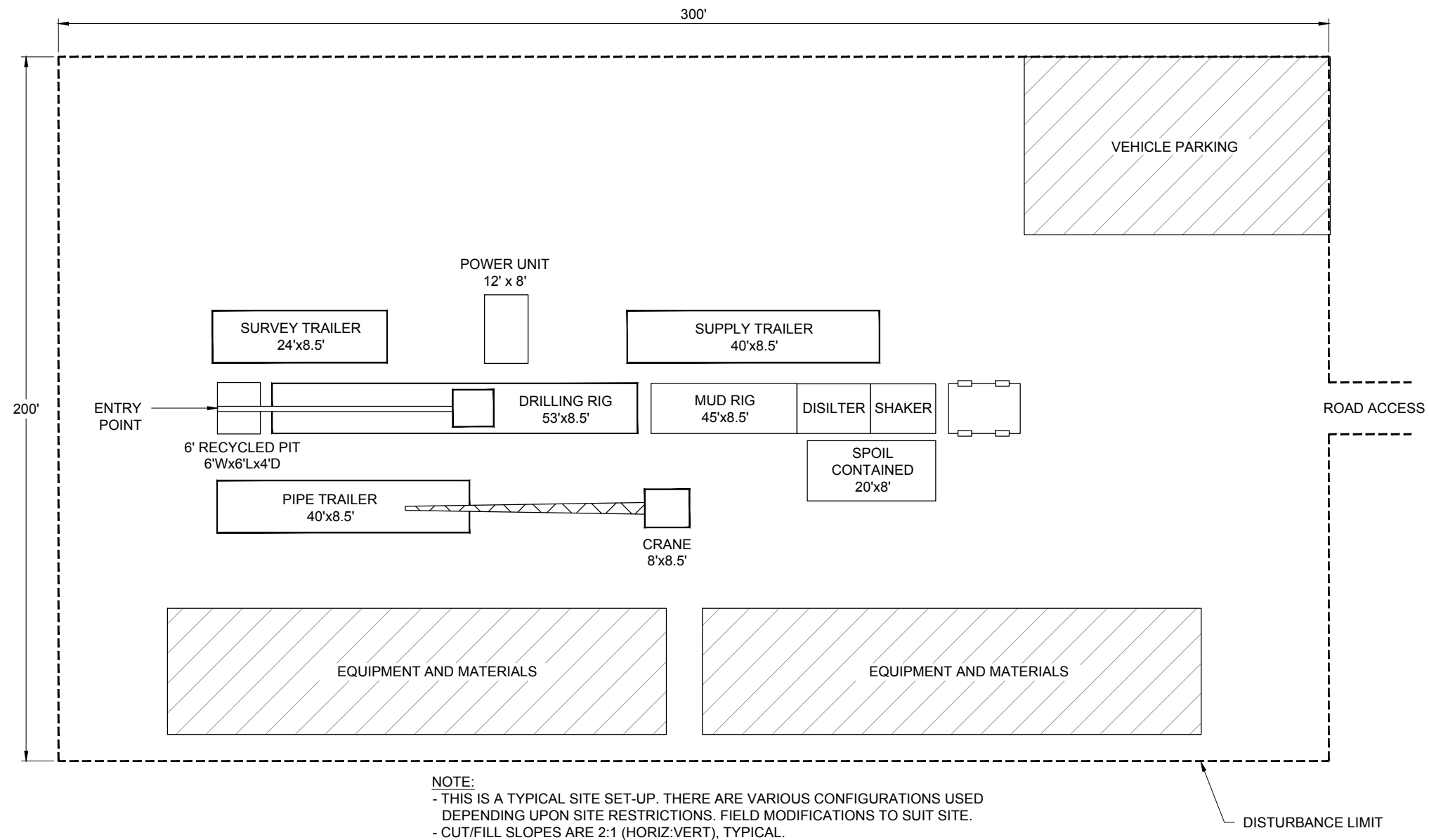
1. CLEARING LIMITS TO BE MIN. 15' EACH SIDE OF CENTERLINE OR MAX. 30' TOTAL WIDTH.
2. MULCH AND ORGANIC DEBRIS FROM CLEARING TO REMAIN ON GROUND SURFACE.
3. DEPTH OF PACKED SNOW AND ICE FOR RUNNING SURFACE WILL VARY.
4. SOIL NOT TO BE DISTURBED EXCEPT AT SPECIFIC LOCATIONS AS PERMITTED.
5. ADD TURNOUT LANE AT LOCATIONS DETERMINED BY ENGINEER. SURFACE WIDTH INCREASED TO 28' FOR TURNOUT. (APPROX. ONE PER 1/4 MILE).

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P07C-TYSCW-02.dwg (BAKER) OCT 2013; P07C-TYSCW-03.dwg (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		WINTER ROAD TYPICAL DETAIL	
	SCALE: AS SHOWN		DATE: 9/9/2015		FIGURE NO. PA-135T	FILE NO. POA-1995-120



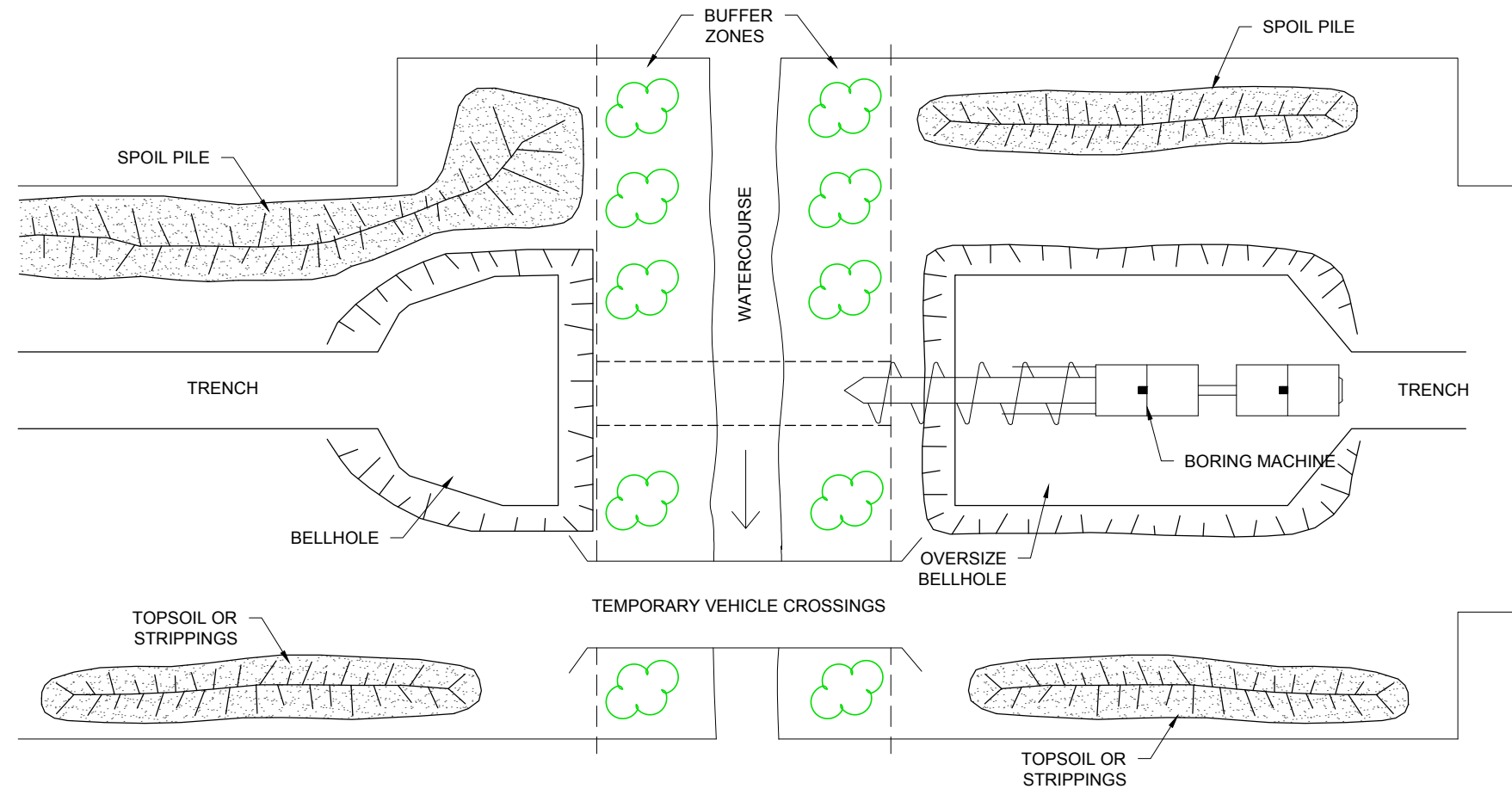
- NOTES:**
- 1. TURNOUTS TO BE FIELD LOCATED BY ENGINEER TO BEST FIT TERRAIN CONDITIONS AND MAXIMIZE OPERATIONAL SAFETY.
 - 2. TURNOUTS TO BE CONSTRUCTED SIMILAR TO ROAD RUNNING SURFACE.
 - 3. OPEN AREA TURNOUTS MAY BE SHAPED AND SIZED TO BEST FIT TERRAIN AND NATURAL CLEARINGS. RADIUS IS REPRESENTATIVE ONLY.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P07C-TYTOW-01.dwg (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		WINTER ROAD TURNOUT DETAIL	
			SCALE: AS SHOWN	DATE: 10/19/2015	FIGURE NO. PA-136T	FILE NO. POA-1995-120

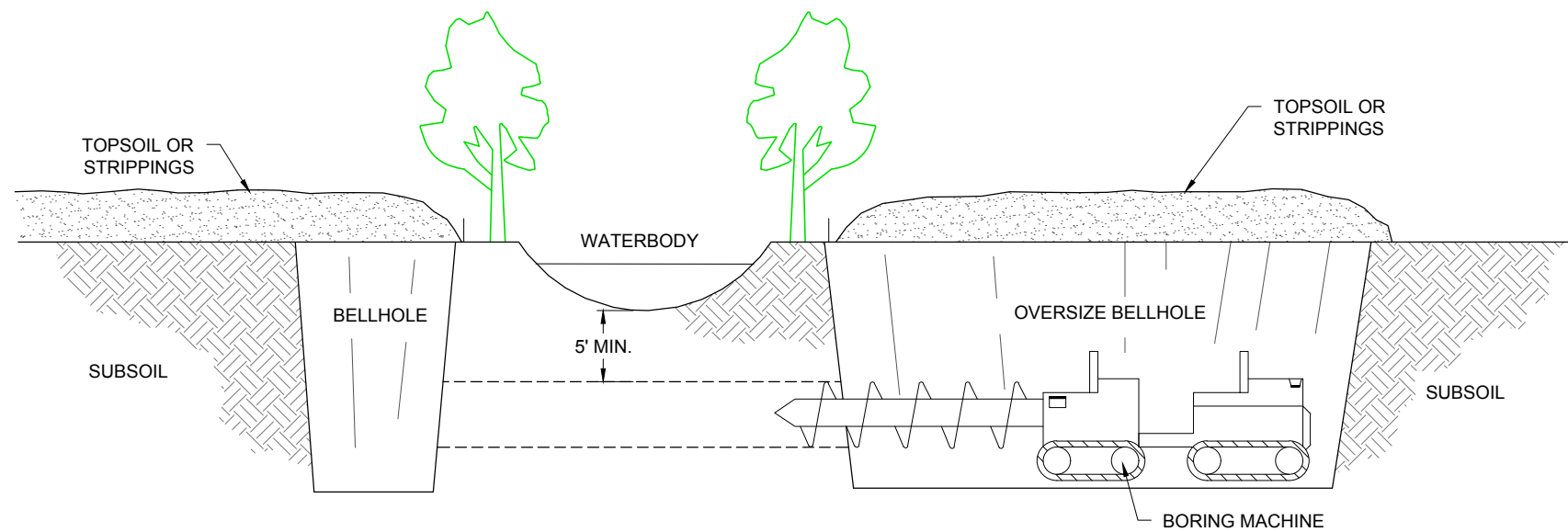


TYPICAL HDD ENTRY SITE EQUIPMENT LAYOUT
N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P04Q-SPHD-01.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL HDD ENTRY SITE EQUIPMENT LAYOUT	
	SCALE: AS SHOWN		DATE: 10/19/2015		FIGURE NO. PA-137T	FILE NO. POA-1995-120

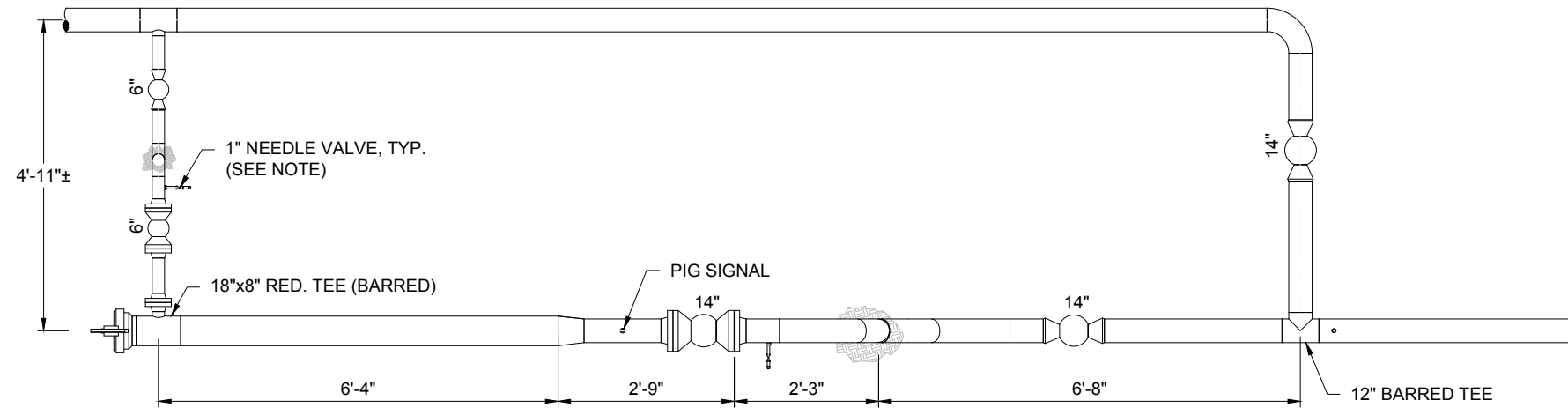


TYPICAL WATERBODY CROSSING HORIZONTAL BORE PLAN
N.T.S.

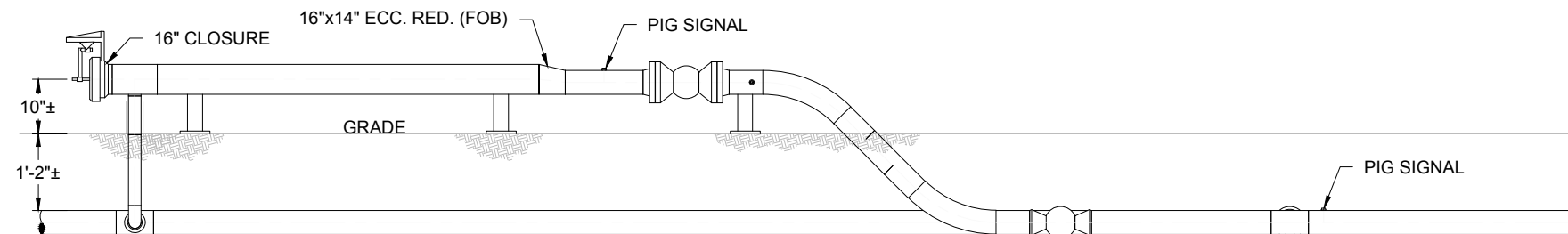


TYPICAL WATERBODY CROSSING HORIZONTAL BORE PROFILE
N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYWC-06.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL WATERBODY CROSSING HORIZONTAL BORE	
			SCALE: AS SHOWN	DATE: 10/23/2015	FIGURE NO. PA-138T	FILE NO. POA-1995-120

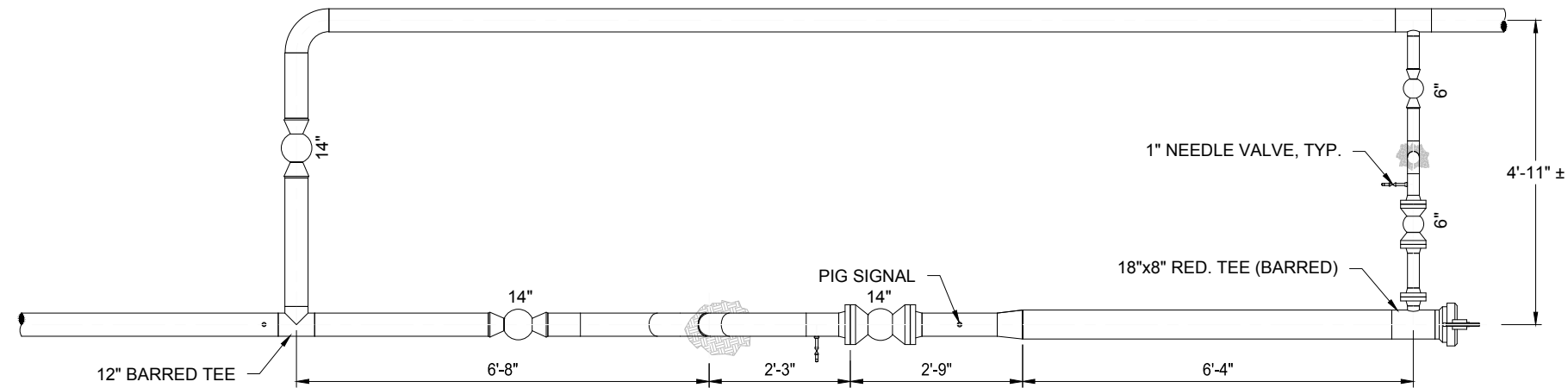


TYPICAL 16"x14" PIG LAUNCHER PLAN
SCALE: $\frac{3}{8}" = 1'-0"$



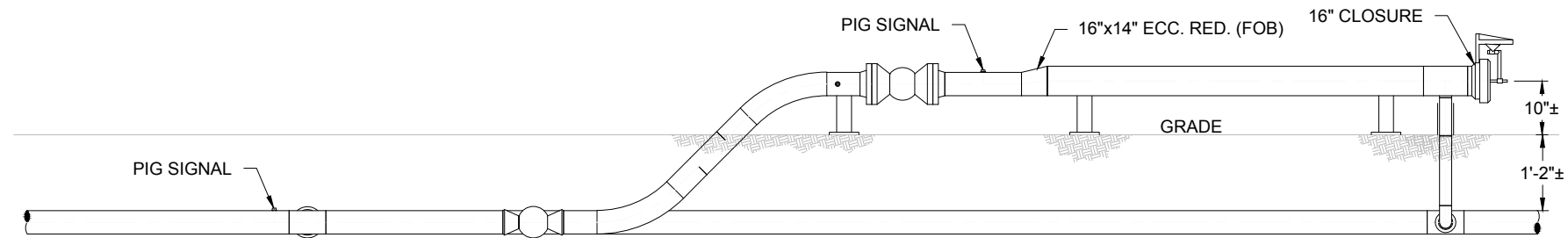
TYPICAL 16"x14" PIG LAUNCHER ELEVATION
SCALE: $\frac{3}{8}" = 1'-0"$

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01M-TYPL-01.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL 16x14 PIG LAUNCHER	
	SCALE: AS SHOWN		DATE: 10/23/2015		FIGURE NO. PA-139T	FILE NO. POA-1995-120



TYPICAL 16"x14" PIG LAUNCHER PLAN

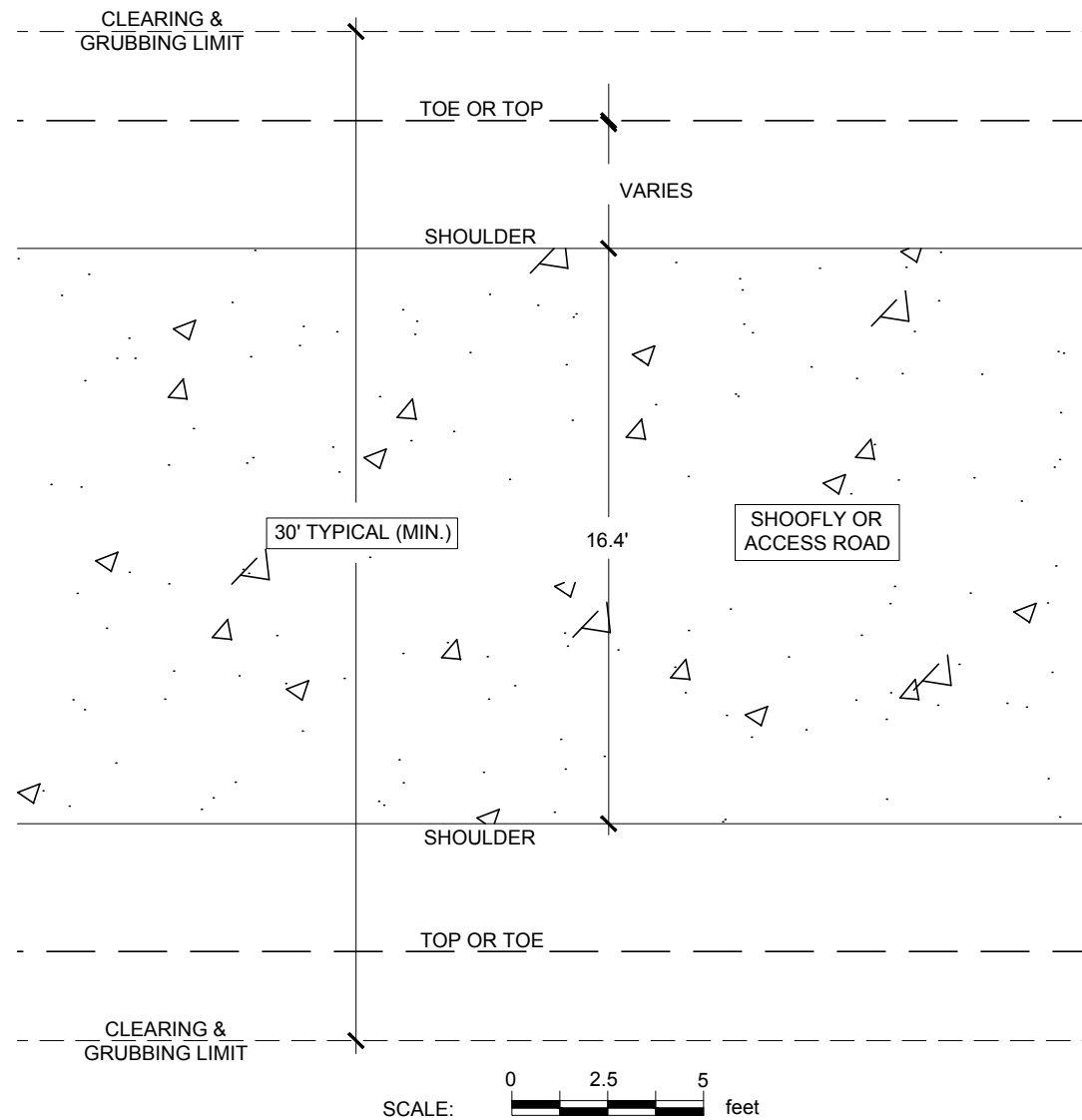
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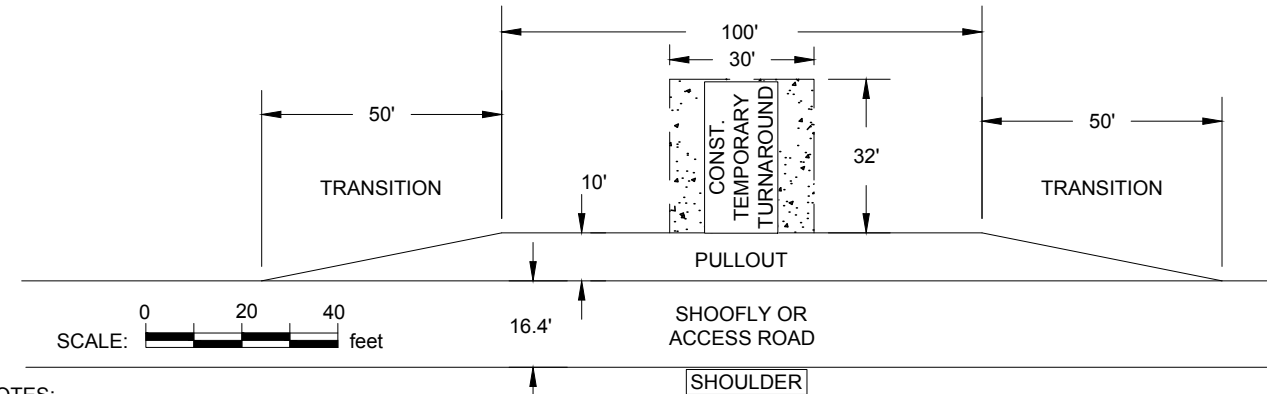
TYPICAL 16"x14" PIG LAUNCHER ELEVATION

SCALE: $\frac{3}{8}" = 1'-0"$

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01M-TYPL-02.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL 16x14 PIG LAUNCHER	
	SCALE: AS SHOWN		DATE: 10/23/2015		FIGURE NO. PA-140T	FILE NO. POA-1995-120

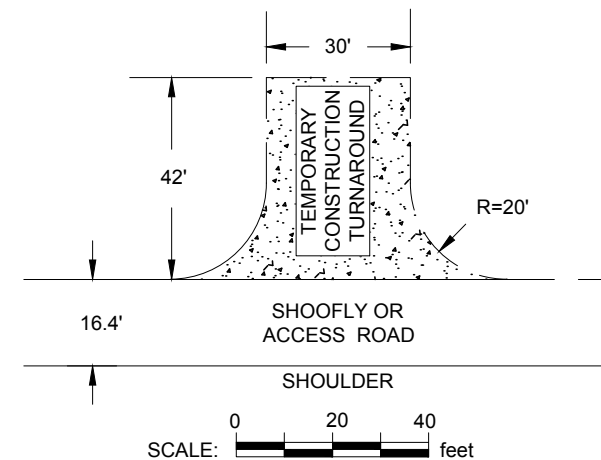


A SHOOFLY OR ACCESS ROAD PLAN VIEW
SCALE: 1" = 5'



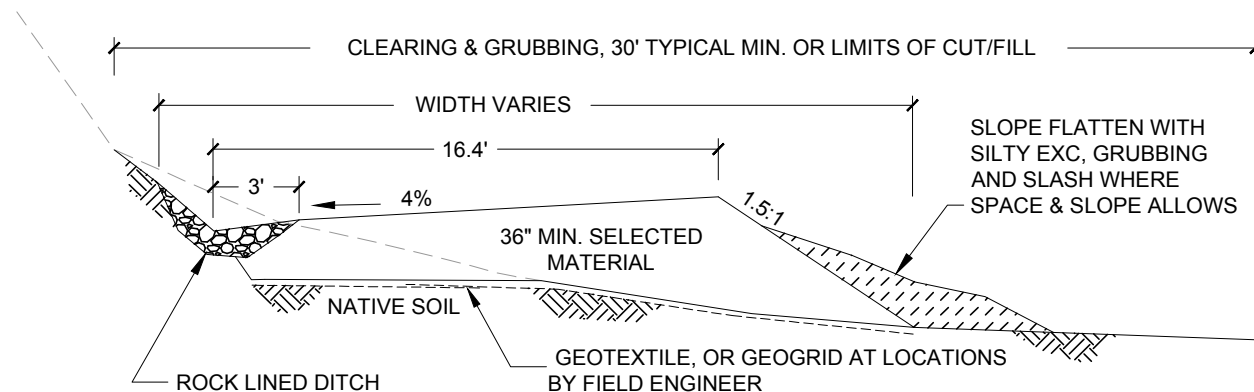
- NOTES:
- PULLOUTS WILL BE INSTALLED AS TERRAIN ALLOWS AT APPROXIMATELY 1/4 MILE INTERVALS. ADDITIONAL PULLOUTS WILL BE CONSTRUCTED WHERE HILLY TERRAIN AND LIMITED SITE DISTANCE ARE PREVALENT.
 - TEMPORARY CONSTRUCTION TURNAROUNDS WILL BE BUILT AT EACH PULLOUT AND FIELD FIT TO MINIMIZE CLEARING.
 - ROCK FILL SHALL BE PLACED IN NO GREATER THAN 12" LIFTS AND COMPACTED.
 - ROCK FILL SHALL BE UNDERLAIN WITH GEOTEXTILE WHEN DIRECTED BY PROJECT ENGINEER.
 - PULLOUTS TO MAY BE WIDENED OR LENGTHENED WHERE NATURAL CONDITION PERMIT AND AS DIRECTED BY PROJECT ENGINEER.
 - TEMP TURNAROUND GRUB ONLY LARGE STUMPS AND PLACE FILL SUFFICIENT TO SUPPORT VEHICLES, CLEAR TO TOE OF FILL OR TOP OF CUT

B PULLOUT PLAN VIEW
SCALE: 1" = 40'



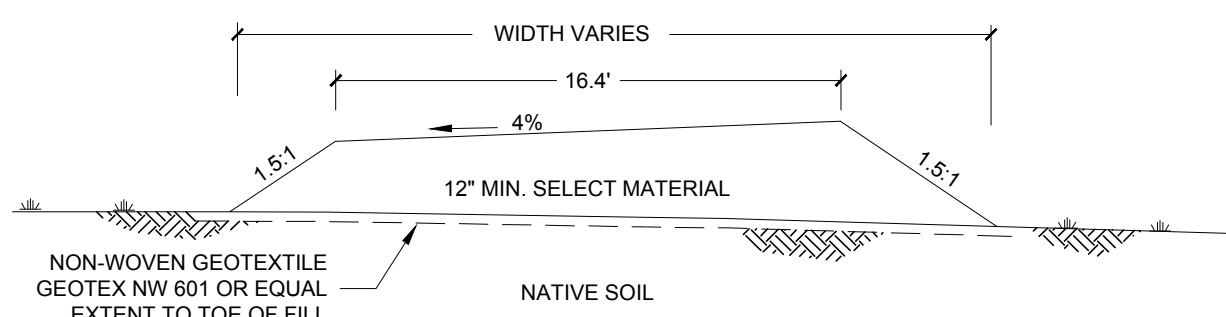
- NOTES:
- FIELD FIT AT 400-500' INTERVALS TO MINIMIZE CLEARING AND EXCAVATION.
 - PLACE FILL SUFFICIENT TO SUPPORT VEHICLES. CLEAR TO TOE OF FILL OR TOP OF CUT
 - TEMPORARY CONSTRUCTION TURNAROUNDS WILL BE BUILT AT EACH PULLOUT AND FIELD FIT TO MINIMIZE CLEARING.
 - ROCK FILL SHALL BE PLACED IN NO GREATER THAN 12" LIFTS AND COMPACTED.
 - ROCK FILL SHALL BE UNDERLAIN WITH GEOTEXTILE WHEN DIRECTED BY PROJECT ENGINEER.
 - TEMP TURNAROUND GRUB ONLY LARGE STUMPS AND PLACE FILL SUFFICIENT TO SUPPORT VEHICLES, CLEAR TO TOE OF FILL OR TOP OF CUT

C TEMPORARY CONSTRUCTION TURNAROUND
SCALE 1" = 40'



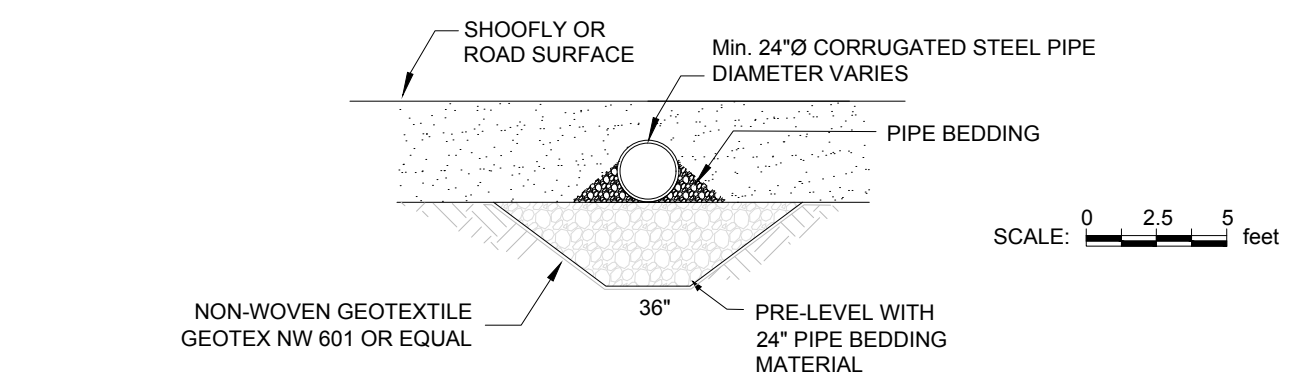
- NOTES:
1. MAX ROAD CLEARING WIDTH IS TOP OF CUT OR TOE OF FILL. IN NEARLY LEVEL TERRAIN, REDUCE CLEARING WIDTH TO 30 FT.
 2. CUT SLOPES WILL VARY DEPENDING ON SOIL OR ROCK TYPE AND CHARACTER. MIN 0.25:1.
 3. FILL SHALL BE UNDERLAIN WITH GEOTEXTILE WHERE SOFT UNDERLYING SOILS ARE ENCOUNTERED.
 4. RESERVE TOPSOIL AND ORGANIC MATERIAL FOR STABILIZATION AND SEEDING ON CUT SLOPES.
 5. CROSS DRAINS SHALL BE ARMORED WATER BARS OR CULVERTS INSTALLED AT LOCATIONS DETERMINED BY FIELD ENGINEER.

**SHOOFLY OR ACCESS ROAD TYPICAL SECTION
VARIABLE TERRAIN (CUT/FILL)**
A
142T N.T.S.

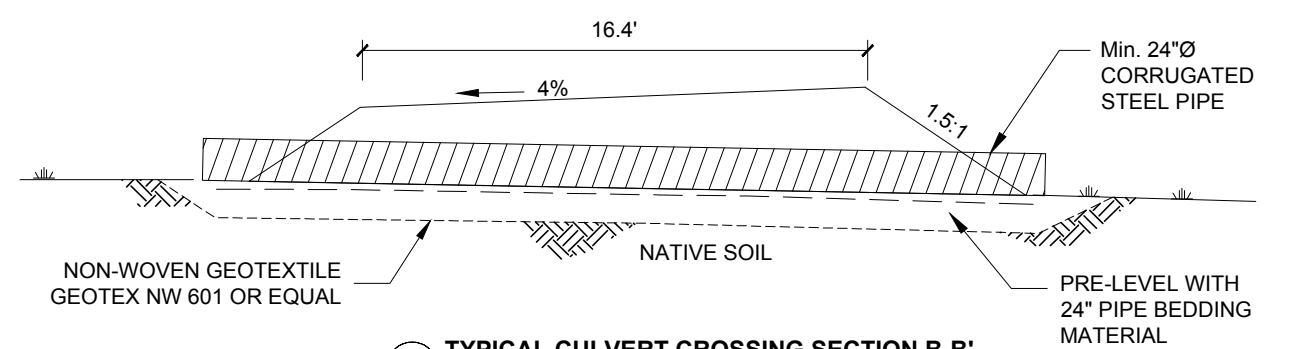


- NOTES:
1. "SELECT MATERIAL" TO BE APPROVED GRANULAR SOIL
 2. QUARRY ROCK FILL SHALL BE UNDERLAIN WITH NON-WOVEN GEOTEXTILE, GEOTEX NW 601 OR EQUAL.
 3. IN WETLAND AREAS GEOGRID, BX 1100 OR EQUAL, MAY BE USED TO STABILIZE FILL AS DETERMINED BY THE ENGINEER.
 4. IN WETLAND AREAS, CONTRACTOR MAY NOT PLACE FILL, REMOVE NATIVE MATERIAL, OR RUN EQUIPMENT OUTSIDE DESIGNATED CONSTRUCTION ZONE AS MARKED IN FIELD BY THE ENGINEER.
 5. CLEARING LIMITS ARE TOP OF CUT AND TOE OF FILL.
 6. DEPTH OF FILL TO VARY DEPENDIG ON SUBGRADE CONDITIONS AND SOIL CHARACTERISTICS. ENGINEER TO FIELD SPECIFY.

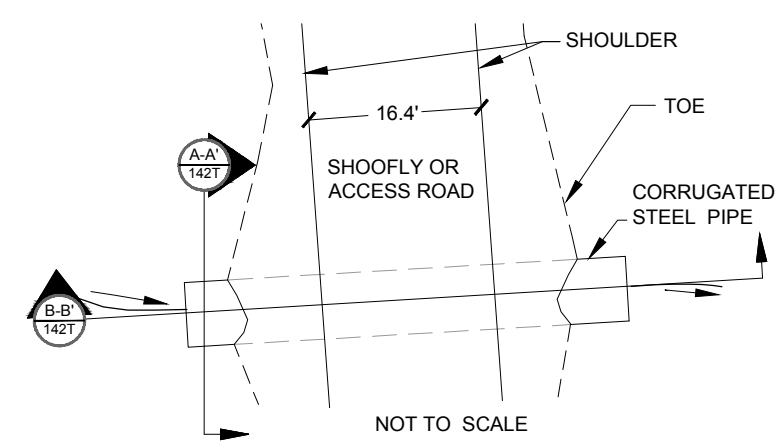
**SHOOFLY OR ACCESS ROAD TYPICAL SECTION
LEVEL TERRAIN (FILL)**
B
142T N.T.S.



TYPICAL CULVERT CROSSING SECTION A-A'
A-A'
142T N.T.S.



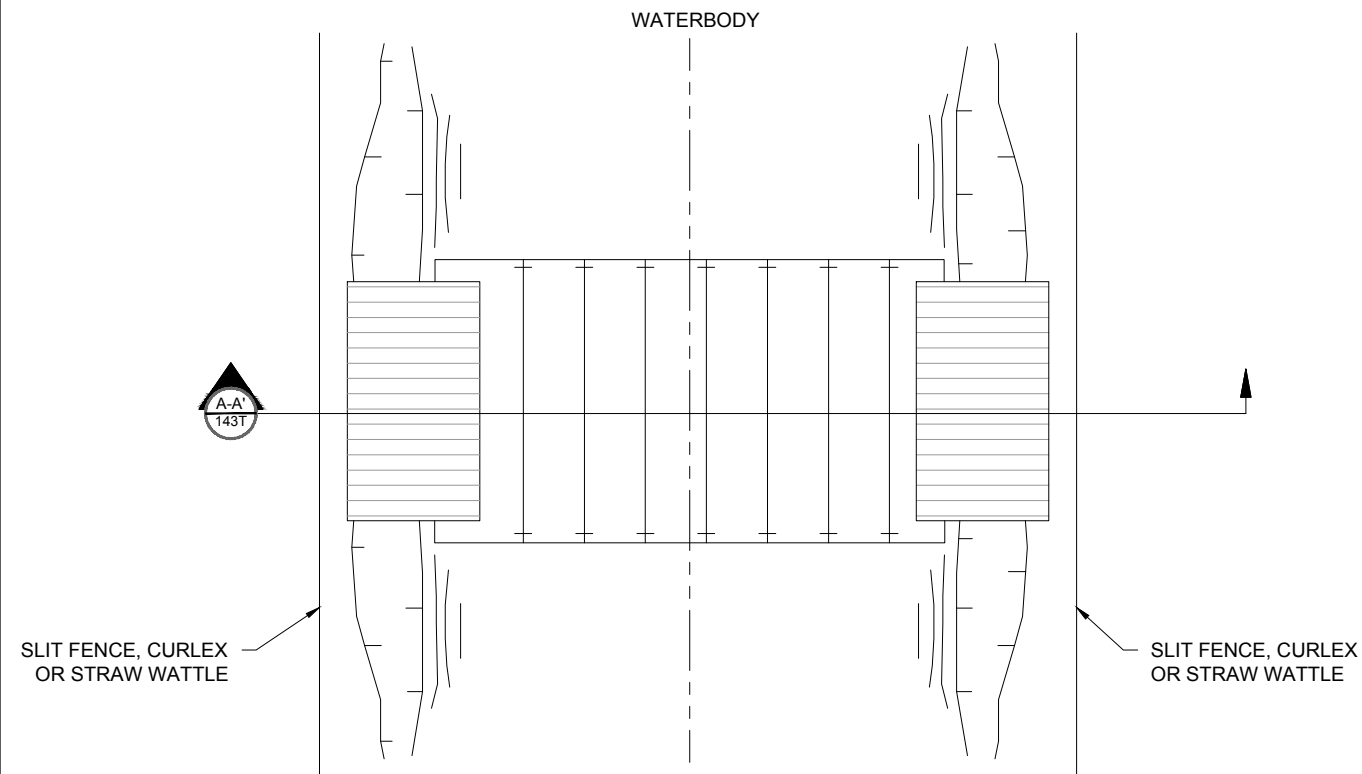
TYPICAL CULVERT CROSSING SECTION B-B'
B-B'
142T N.T.S.



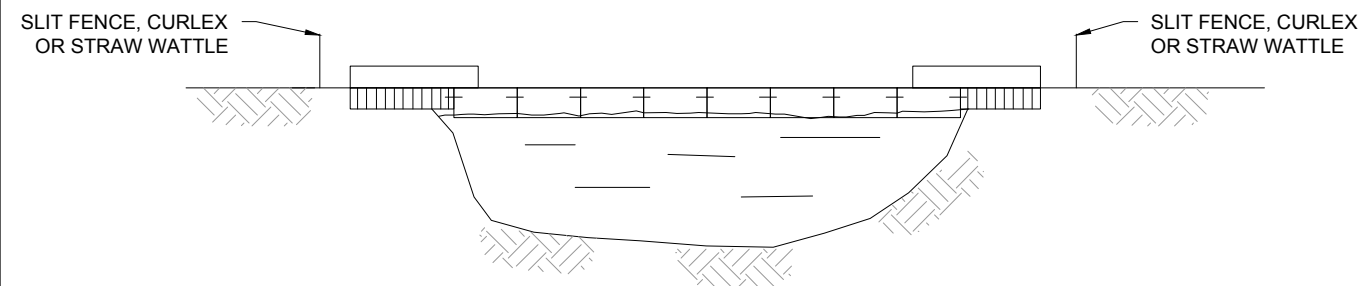
1. ALL CULVERTS SHALL BE CORRUGATED STEEL AS APPROVED BY PROJECT ENGINEER.
2. PRE-LEVEL WITH 24" OF COARSE ROCK PIPE BEDDING MATERIAL AND ENSURE MIN. 12" OF COVER
3. CROSS CULVERTS IN UPLANDS SHALL BE INSTALLED WITH AN ENLARGED (BELL HOLE) DITCH SECTION ON THE INLET END. FILL TO 6" DEPTH WITH DITCH LINER MATERIAL.
4. CULVERT GRADIENT TO MATCHED NATURAL DRAINAGE GRADIENT OR AS SPECIFIED BY PROJECT ENGINEER (MIN. 2%)
5. CROSS CULVERTS IN UPLANDS SHALL BE INSTALLED WITH AN ENLARGED (BELL HOLE) DITCH SECTION ON THE INLET END. FILL TO 6" DEPTH WITH DITCH LINER MATERIAL.
6. CULVERT DIA. AND LOCATION PER SUMMARY PROVIDED BY PROJECT ENGINEER

TYPICAL CULVERT CROSSING PLAN
C
142T N.T.S.

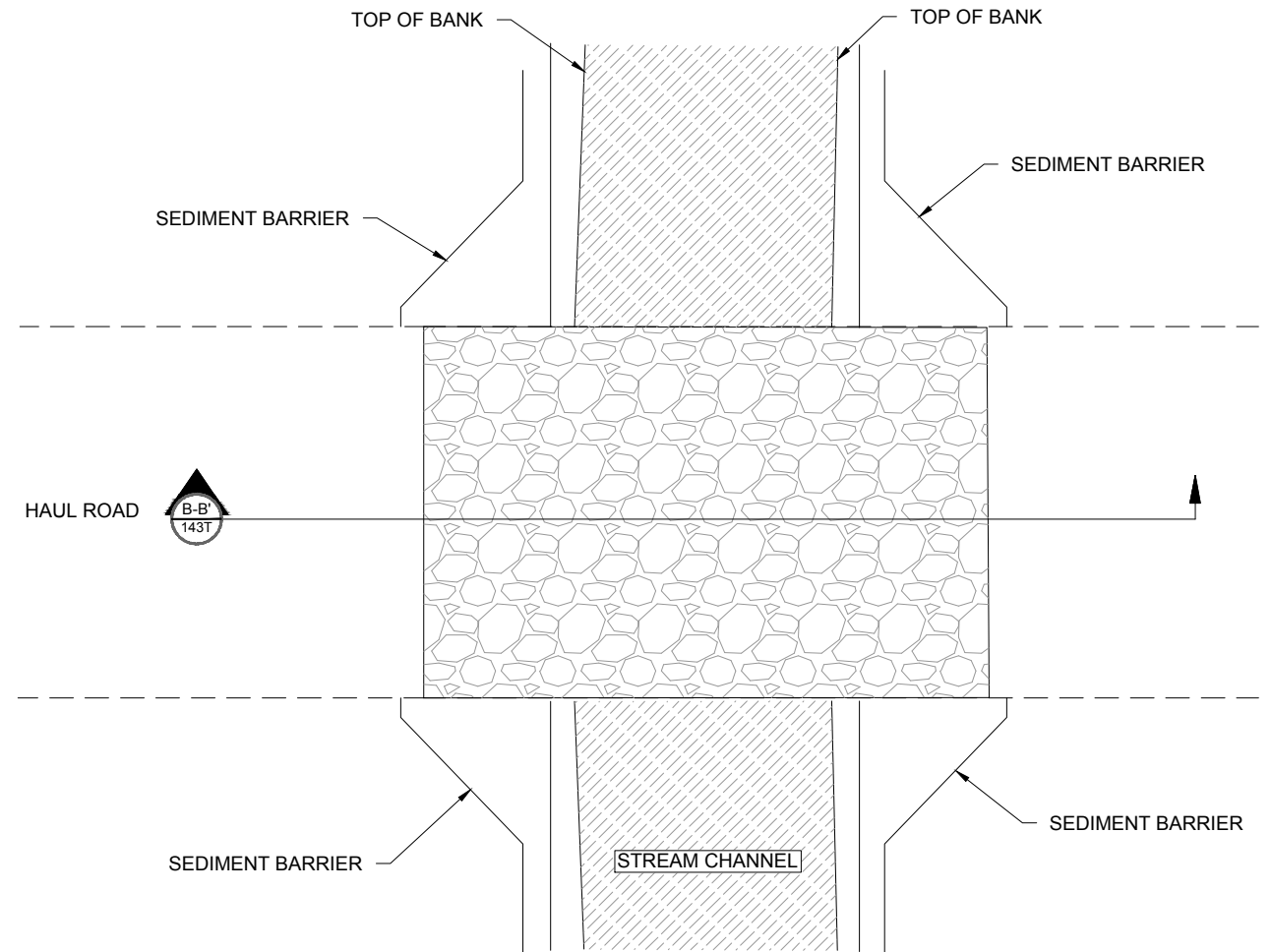
Associated Engineering Drawings ShooflyTypicals_SheetLayout_toDG.dwg (RECONN) OCT 2014	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: SHOOFLY TYPICAL SECTIONS	
	SCALE: AS SHOWN		FIGURE NO. PA-142T	FILE NO. POA-1995-120
	DATE: 9/11/2015			



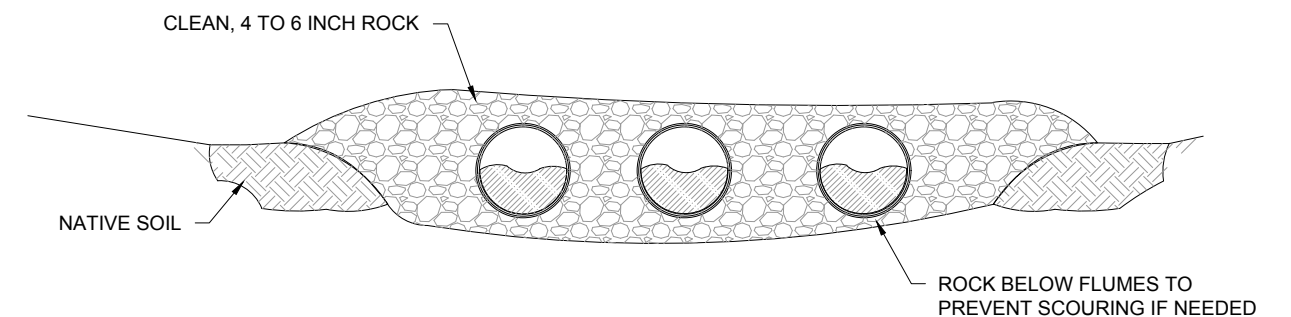
TYPICAL FLEX-FLOAT BRIDGE PLAN
N.T.S.



TYPICAL FLEX-FLOAT BRIDGE SECTION A-A'
N.T.S.



TYPICAL ROCK FLUME BRIDGE PLAN
N.T.S.



TYPICAL ROCK FLUME BRIDGE SECTION B-B'
N.T.S.

BRIDGE DETAIL NOTES:

1. DESIGN AND MAINTAIN BRIDGE TO WITHSTAND AND PASS THE HIGHEST ANTICIPATED FLOW THAT MAY OCCUR WHILE THE BRIDGE IS IN PLACE. CULVERTS MUST BE ALIGNED TO PREVENT BANK EROSION OR STREAM BED SCOUR.
2. INSPECT BRIDGE ELEVATION SO BRIDGE REMAINS SUPPORTED ABOVE HIGH BANK, AND DOES NOT SINK INTO BANK. ADDITIONAL SUPPORT MUST BE ADDED ON TOP OF BANK AND UNDER SPAN IF INITIAL SUPPORT STARTS TO SETTLE. ALL BRIDGES MUST BE ANCHORED FOR STABILITY.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. SILT FENCE OR SANDBAGS MAY BE USED INTERCHANGEABLY.
4. BRIDGE DECKS WILL BE KEPT FREE OF SOIL.
5. EQUIPMENT BRIDGES WILL CONSIST OF ONE OF THE FOLLOWING: CLEAN ROCK PLACED OVER FLUME PIPES; PREFABRICATED CONSTRUCTION MATS; OR FLEX-FLOAT OR OTHER TEMPORARY BRIDGING, SUCH AS BAILEY BRIDGES.
6. REMOVE EQUIPMENT BRIDGES AND ASSOCIATED MATERIAL AS SOON AS POSSIBLE. RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.
7. DISPOSE OF ANY ROCK AS DIRECTED.

Associated Engineering Drawings

P01C-TYBD-01.DWG, P01C-TYBD-02.DWG, P01C-TYBD-03.DWG
(BAKER) OCT 2013

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

DRAWING TITLE:

**TYPICAL FLEX-FLOAT AND ROCK
FLUME BRIDGE DETAIL**

FIGURE NO.

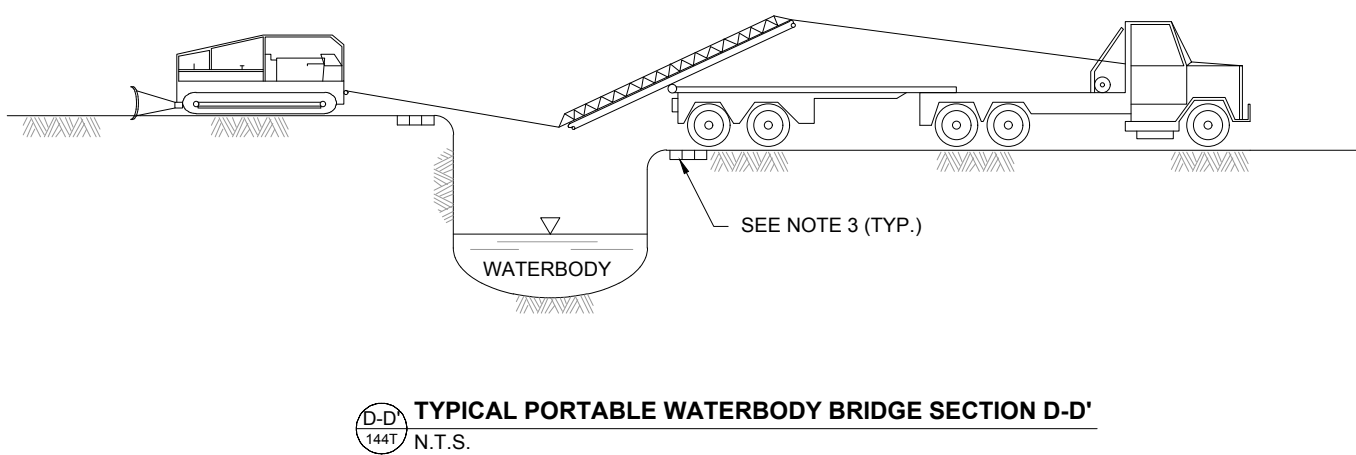
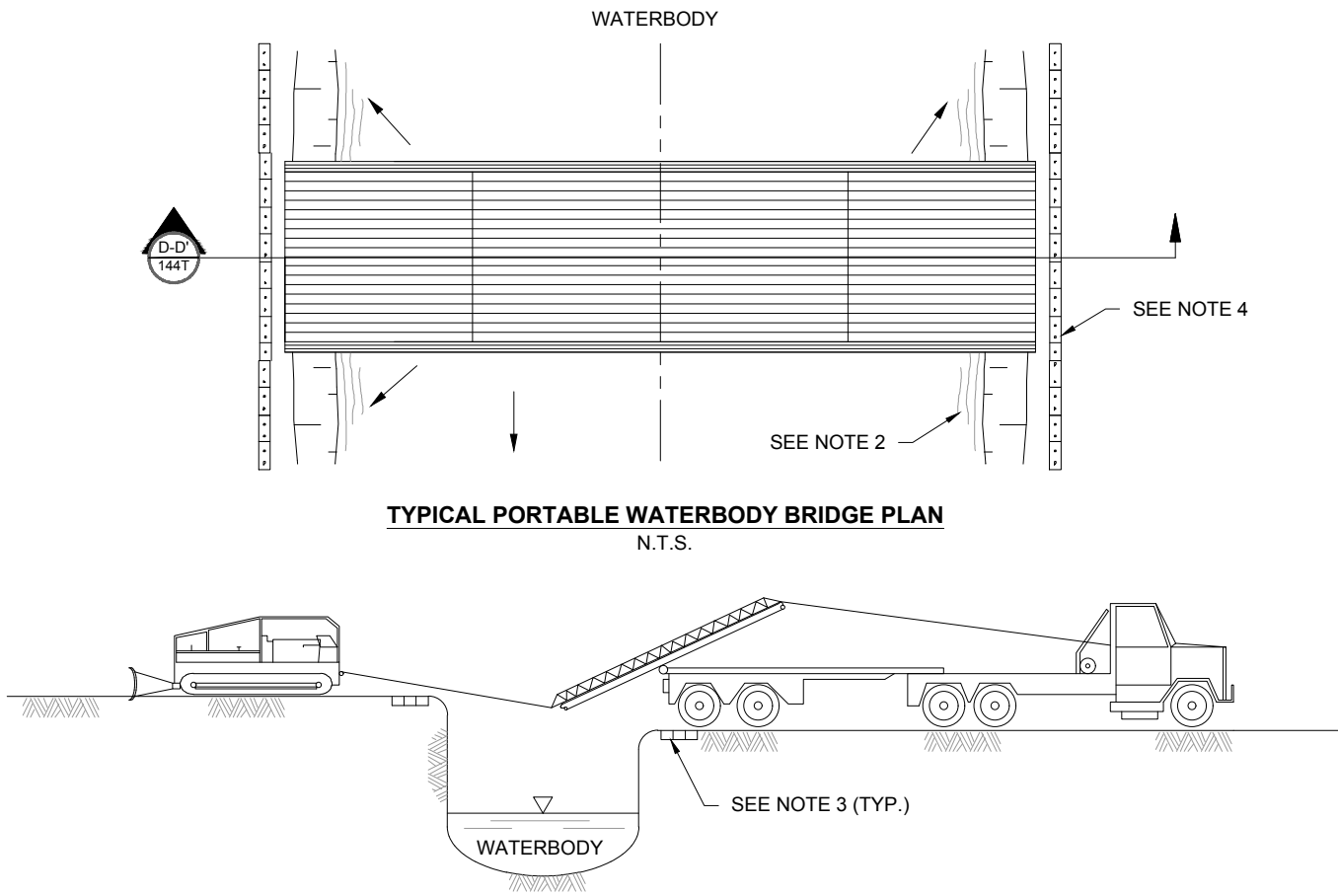
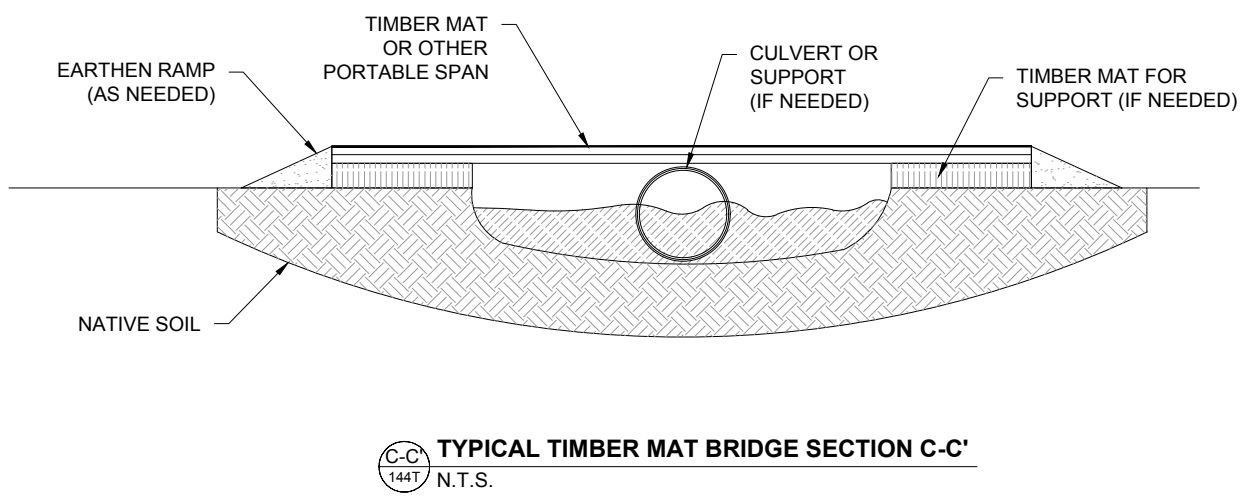
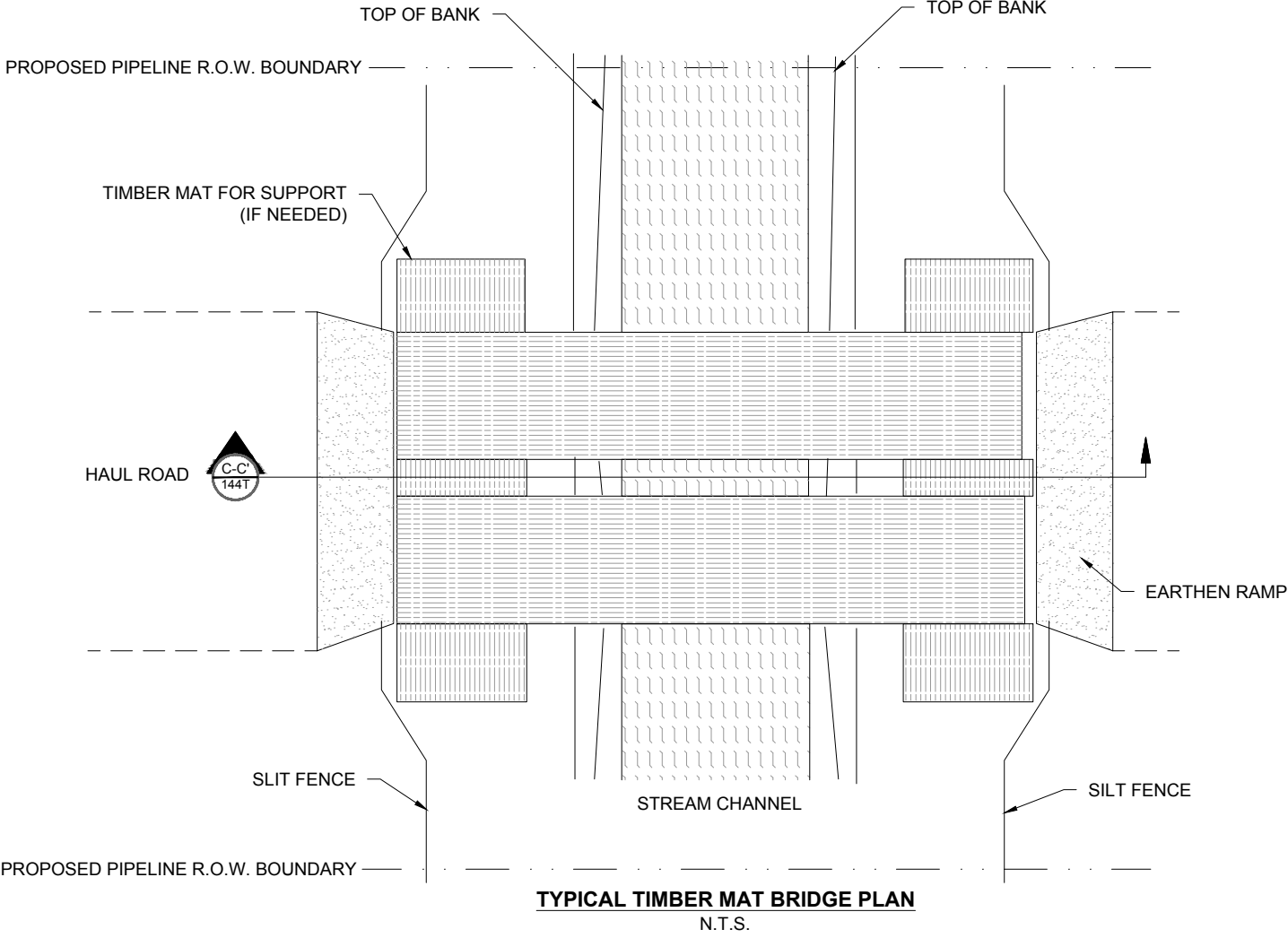
PA-143T

FILE NO.

POA-1995-120

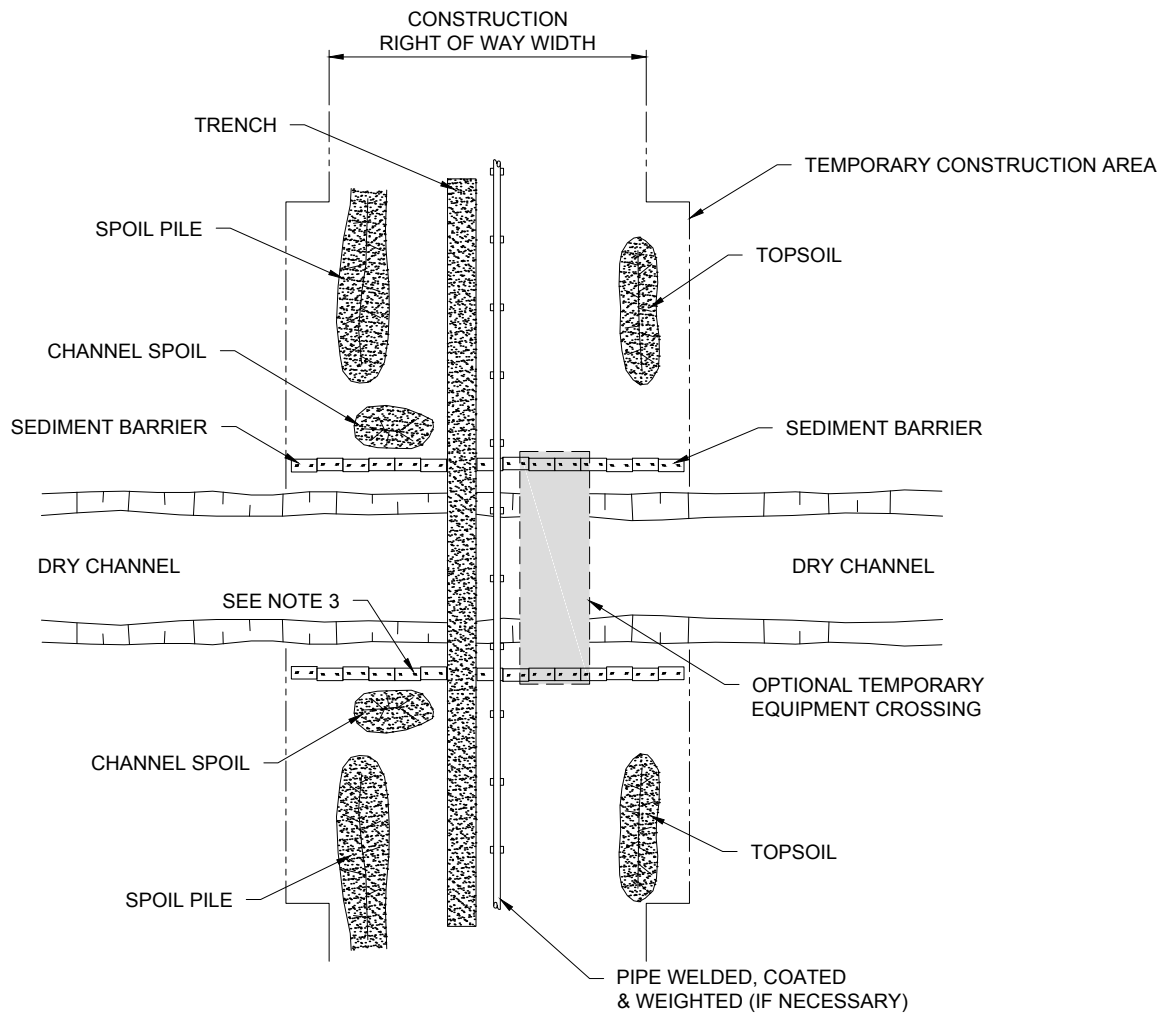
SCALE: AS SHOWN

DATE: 9/30/2015



- BRIDGE DETAIL NOTES:**
1. DESIGN AND MAINTAIN BRIDGE TO WITHSTAND AND PASS THE HIGHEST ANTICIPATED FLOW THAT MAY OCCUR WHILE THE BRIDGE IS IN PLACE. CULVERTS MUST BE ALIGNED TO PREVENT BANK EROSION OR STREAM BED SCOUR.
 2. INSPECT BRIDGE ELEVATION SO BRIDGE REMAINS SUPPORTED ABOVE HIGH BANK, AND DOES NOT SINK INTO BANK. ADDITIONAL SUPPORT MUST BE ADDED ON TOP OF BANK AND UNDER SPAN IF INITIAL SUPPORT STARTS TO SETTLE. ALL BRIDGES MUST BE ANCHORED FOR STABILITY.
 3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. SILT FENCE OR SANDBAGS MAY BE USED INTERCHANGEABLY.
 4. BRIDGE DECKS WILL BE KEPT FREE OF SOIL.
 5. EQUIPMENT BRIDGES WILL CONSIST OF ONE OF THE FOLLOWING: CLEAN ROCK PLACED OVER FLUME PIPES; PREFABRICATED CONSTRUCTION MATS; OR FLEX-FLOAT OR OTHER TEMPORARY BRIDGING, SUCH AS BAILEY BRIDGES.
 6. REMOVE EQUIPMENT BRIDGES AND ASSOCIATED MATERIAL AS SOON AS POSSIBLE. RESTORE AND STABILIZE BED AND BANKS TO APPROXIMATE PRE-CONSTRUCTION CONDITIONS.
 7. DISPOSE OF ANY ROCK AS DIRECTED.

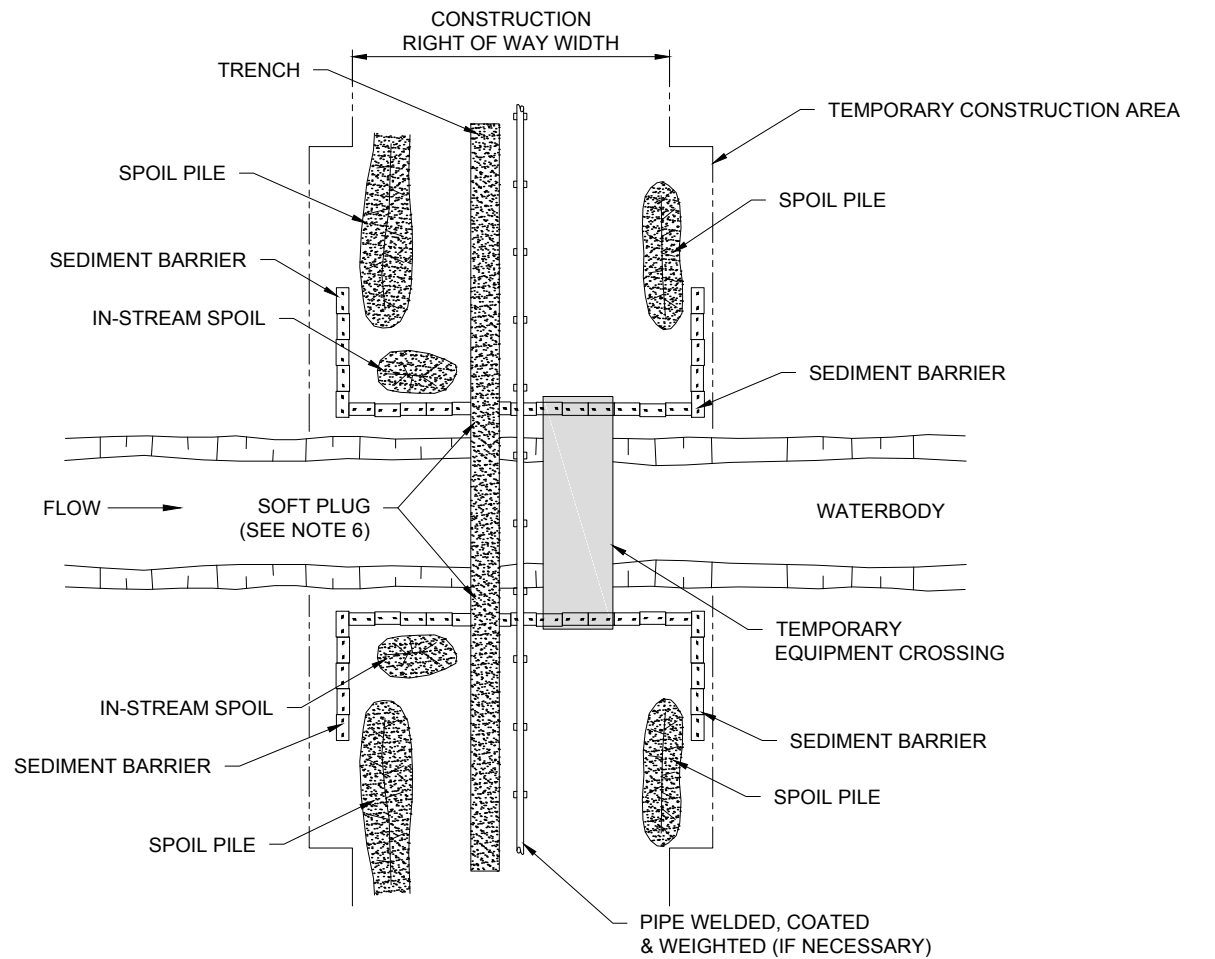
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYBD-01.DWG, P01C-TYBD-04.DWG, P01C-TYBD-05.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL TIMBER MAT AND PORTABLE WATERBODY BRIDGE DETAIL	
			SCALE: AS SHOWN		FIGURE NO. PA-144T	FILE NO. POA-1995-120



A
145T
TYPICAL NON-FLOWING WATERBODY CROSSING OPEN-CUT
N.T.S.

NOTES:

1. METHOD APPLIES TO CROSSING WHERE NO FLOWING WATER IS PRESENT AT THE TIME OF CROSSING.
2. CONTRACTOR MAY "MAINLINE THROUGH" THE CROSSING OR UP TO BOTH SIDES OF THE CROSSING; STRING, WELD, COAT, AND WEIGHT (IF NECESSARY), USING THE MAINLINE CREW WITH THE PIPE SKIDDED OVER THE CROSSING.
3. CONSTRUCT SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION R.O.W. FOLLOWING CLEARING AND GRADING AND MAINTAIN UNTIL CONSTRUCTION OF THE CROSSING. EROSION CONTROL MEASURES SHALL BE REINSTALLED IMMEDIATELY FOLLOWING BACKFILLING OF TRENCH AND STABILIZATION OF BANKS.
4. TOPSOIL AND SPOIL WILL NOT BE STOCKPILED IN THE CROSSING CHANNEL.
5. MAINTAIN STREAM FLOW THROUGHOUT CROSSING CONSTRUCTION.
6. BACKFILL WITH NATIVE MATERIAL.
7. RESTORE CROSSING CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
8. RESTORE CROSSING BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.

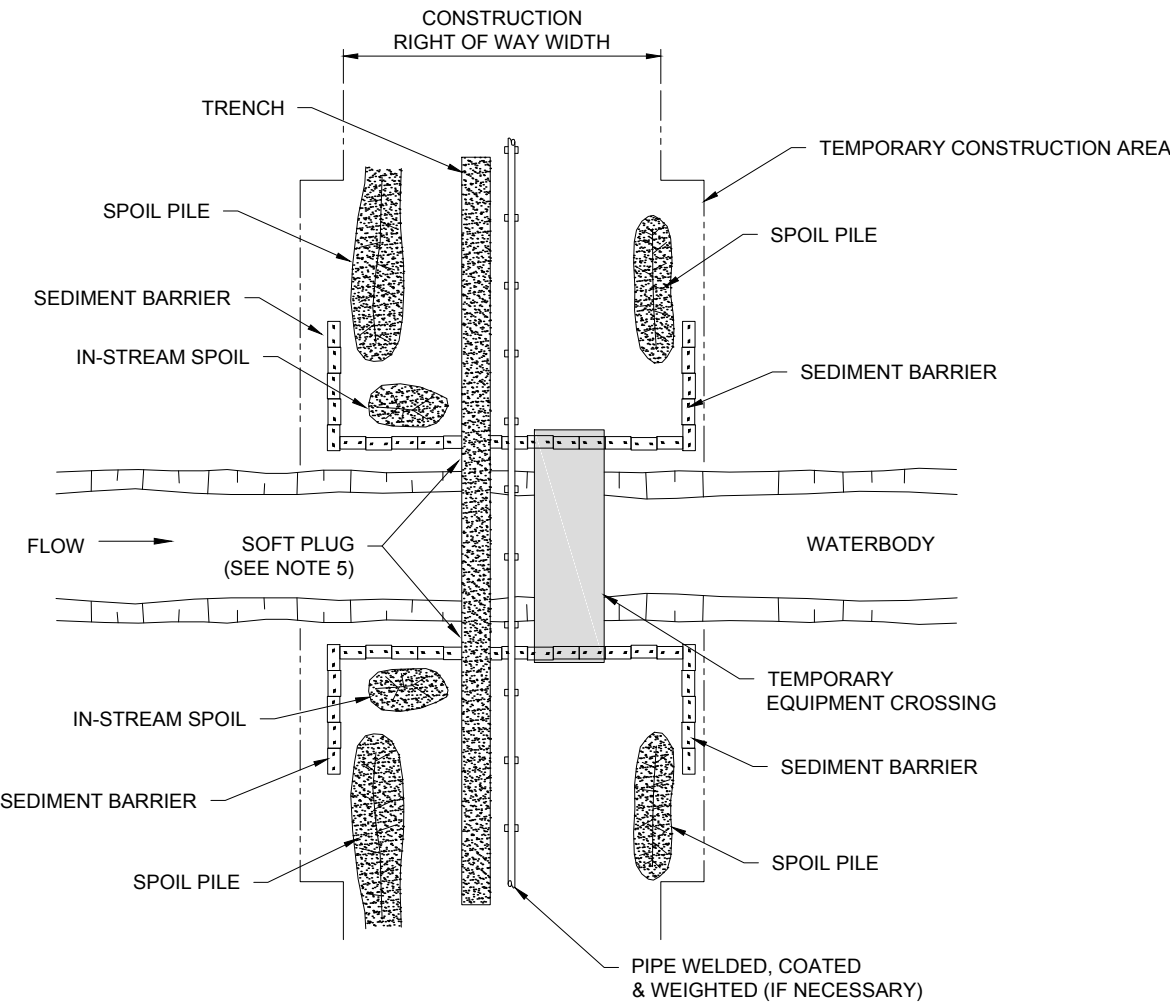


B
145T
TYPICAL FLOWING WATERBODY CROSSING OPEN-CUT
N.T.S.

NOTES:

1. SCHEDULE CROSSING DURING LOW FLOW PERIOD IF POSSIBLE.
2. COMPLETE ALL IN-STREAM ACTIVITIES WITHIN 24 HOURS IF FEASIBLE.
3. NO REFUELING OF MOBILE EQUIPMENT WITHIN 200 FEET OF WATERBODY. REFUEL STATIONARY EQUIPMENT AS PER THE HAZARDOUS MATERIALS MANAGEMENT AND SPCCC PLAN.
4. CONSTRUCT SEDIMENT BARRIERS ALONG THE SIDES OF STOCKPILES AND ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY.
5. IN-STREAM SPOIL TO BE STORED OUT OF THE STREAM CHANNEL AND WITHIN THE CONSTRUCTION R.O.W.
6. INSTALL SOFT PLUGS AT THE EDGE OF STREAM BANKS UNTIL JUST PRIOR TO PIPE INSTALLATION TO CONTROL WATER FLOW & TRENCH SLOUGHING, IF NEEDED.
7. MAINTAIN STREAM FLOW THROUGHOUT CROSSING CONSTRUCTION.
8. BACKFILL WITH NATIVE MATERIAL.
9. RESTORE WATERBODY CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
10. RESTORE STREAM BANKS TO APPROXIMATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.
11. ALL DIMENSIONS INDICATED SHALL BE DETERMINED BY ACTUAL CONSTRUCTION CONDITIONS.
12. FOLLOW REQUIREMENTS FROM THE ARMY CORPS OF ENGINEERS.
13. DRAWING DEPICTED IS SUPERSEDED BY WRITTEN STANDARD, SCOPE OF WORK OR LINE LIST.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYWC-01.DWG, P01C-TYWC-02.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL WATERBODY CROSSING DETAIL	
	SCALE: AS SHOWN		DATE: 10/19/2015		FIGURE NO. PA-145T	FILE NO. POA-1995-120

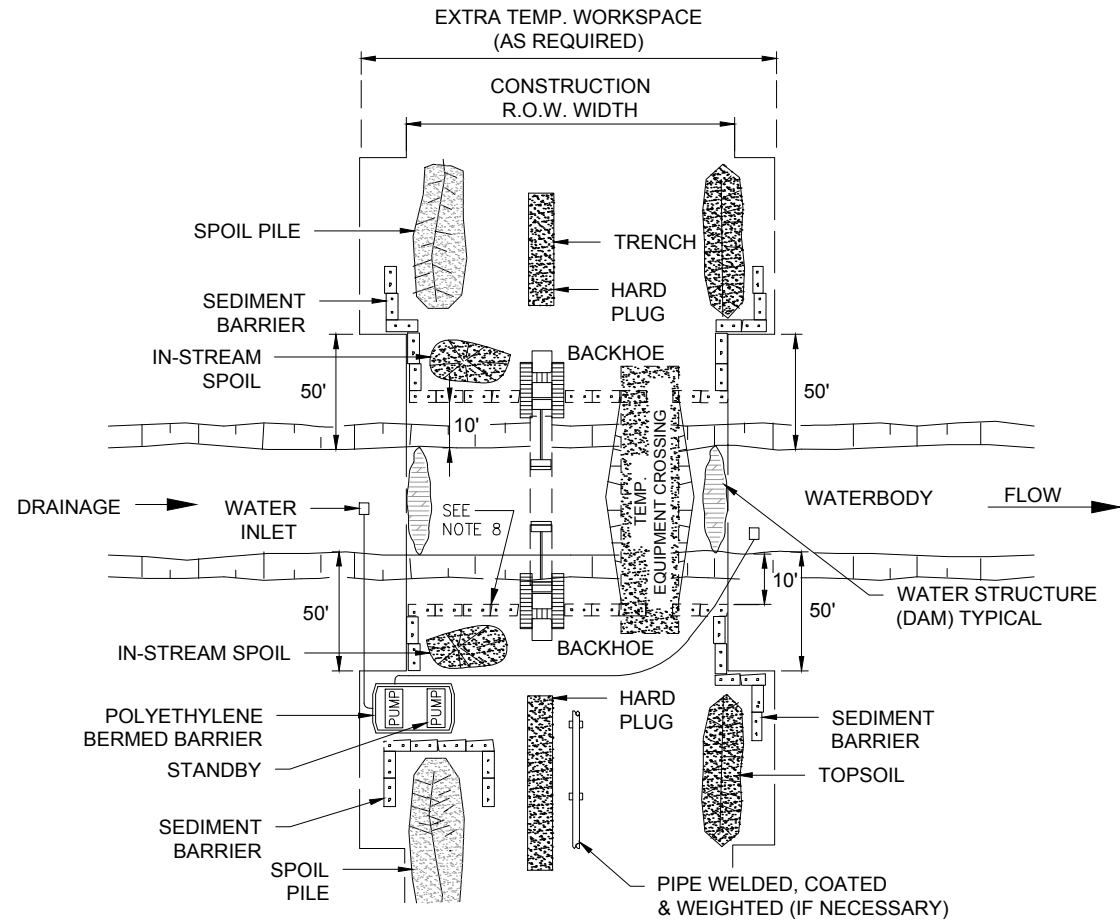


A
146T
TYPICAL FLOWING WATERBODY CROSSING OPEN-CUT
N.T.S.

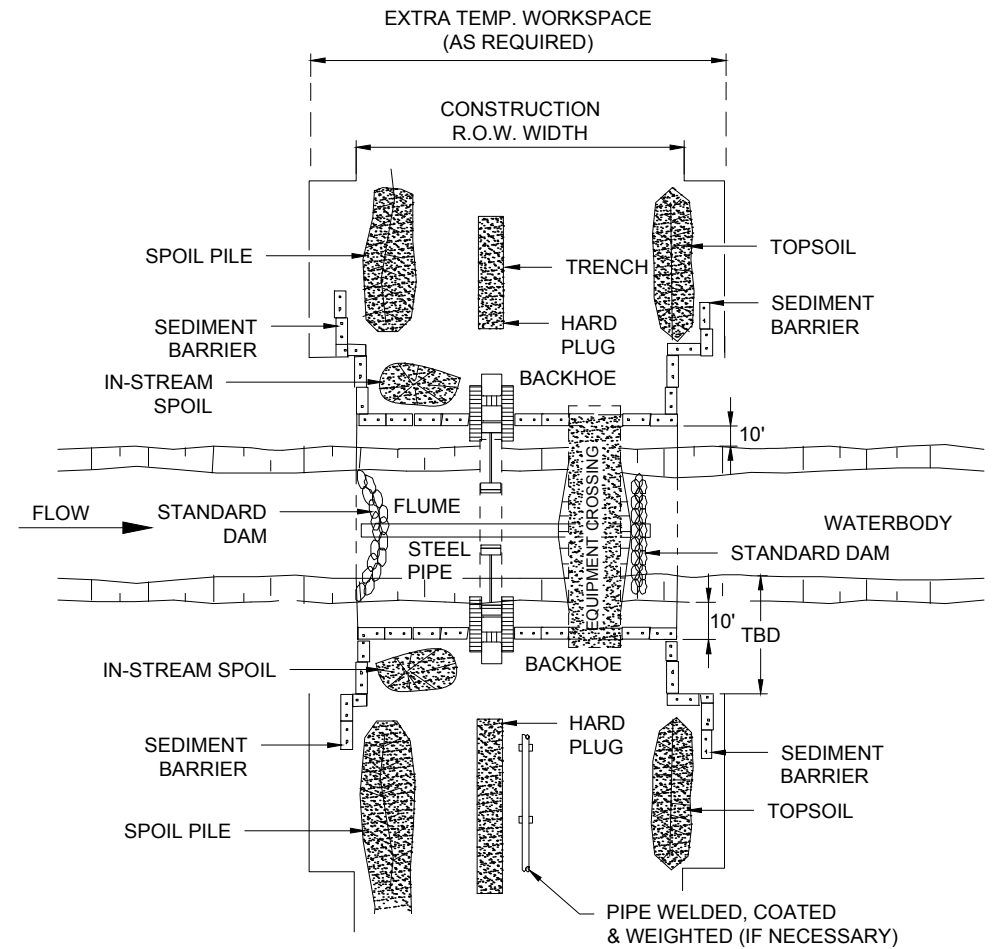
NOTES:

1. METHOD APPLIES TO WATERBODIES THAT ARE NOT STATE DESIGNATED FISHERIES WHERE FLUME CROSSINGS ARE NOT REQUIRED. IF TOPOGRAPHY PERMITS TEMPORARY EQUIPMENT BRIDGE INSTALLATION, THE CONTRACTOR SHALL TRENCH, STRING, WELD, COAT, WEIGHT (IF NECESSARY). LOWER IN AND BACKFILL UTILIZING THE MAIN LINE CREW TRAVELING OVER THE BRIDGE. IF TOPOGRAPHY PROHIBITS INSTALLATION OF A TEMPORARY EQUIPMENT BRIDGE, CONTRACTOR SHALL TRENCH UP TO BOTH SIDES OF CROSSING; STRING, WELD, COAT AND WEIGHT (IF NECESSARY) USING THE MAINLINE CREW. IN STREAM EXCAVATION, LOWER IN, AND BACKFILL WILL UTILIZE A CLAM OR HOES WORKING FROM THE BANKS.
2. SCHEDULE CROSSING DURING LOW FLOW PERIOD IF POSSIBLE.
3. CONSTRUCT SEDIMENT BARRIERS ALONG THE SIDES OF STOCKPILES AND ACROSS THE ENTIRE CONSTRUCTION R.O.W. TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING BACK INTO WATERBODY.
4. IN-STREAM SPOIL TO BE STORED OUT OF THE STREAM CHANNEL.
5. INSTALL TEMPORARY (SOFT) PLUGS AT THE EDGE OF STREAM BANKS UNTIL JUST PRIOR TO PIPE INSTALLATION TO CONTROL WATER FLOW & TRENCH SLOUGHING.
6. TRENCH THROUGH WATERBODY USING MAINLINE EXCAVATION EQUIPMENT WHERE PRACTICAL.
7. MAINTAIN STREAM FLOW THROUGHOUT CROSSING CONSTRUCTION.
8. RESTORE WATERBODY CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
9. RESTORE STREAM BANKS TO APPROPRIATE ORIGINAL CONDITION AND STABILIZE, AS REQUIRED.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYWC-03.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL FLOWING WATERBODY CROSSING OPEN-CUT DETAIL	
			SCALE: AS SHOWN		FIGURE NO. PA-146T	FILE NO. POA-1995-120



A **TYPICAL FLOWING WATERBODY CROSSING OPEN-CUT DAM & PUMP**
147T N.T.S.

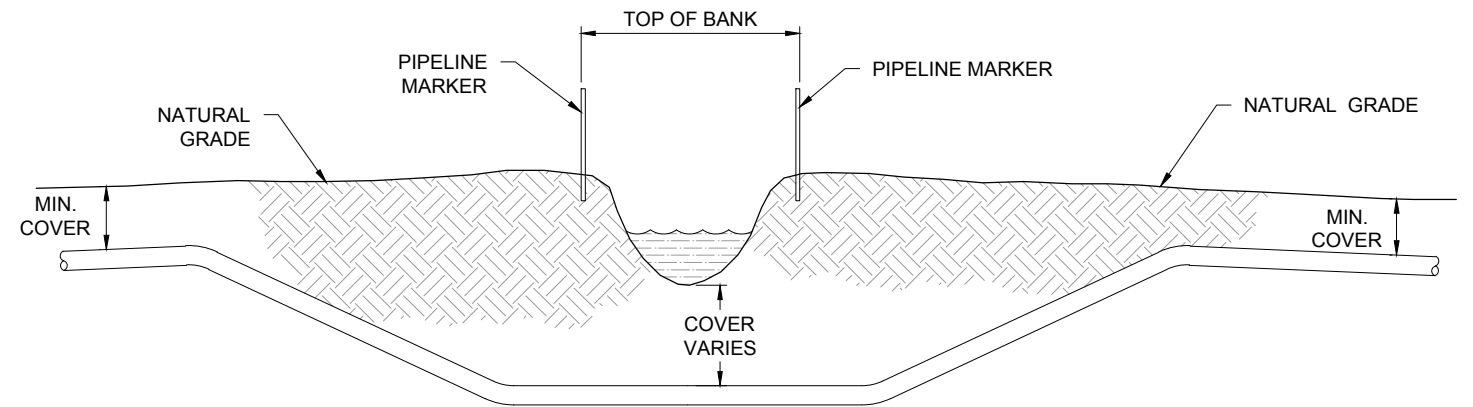
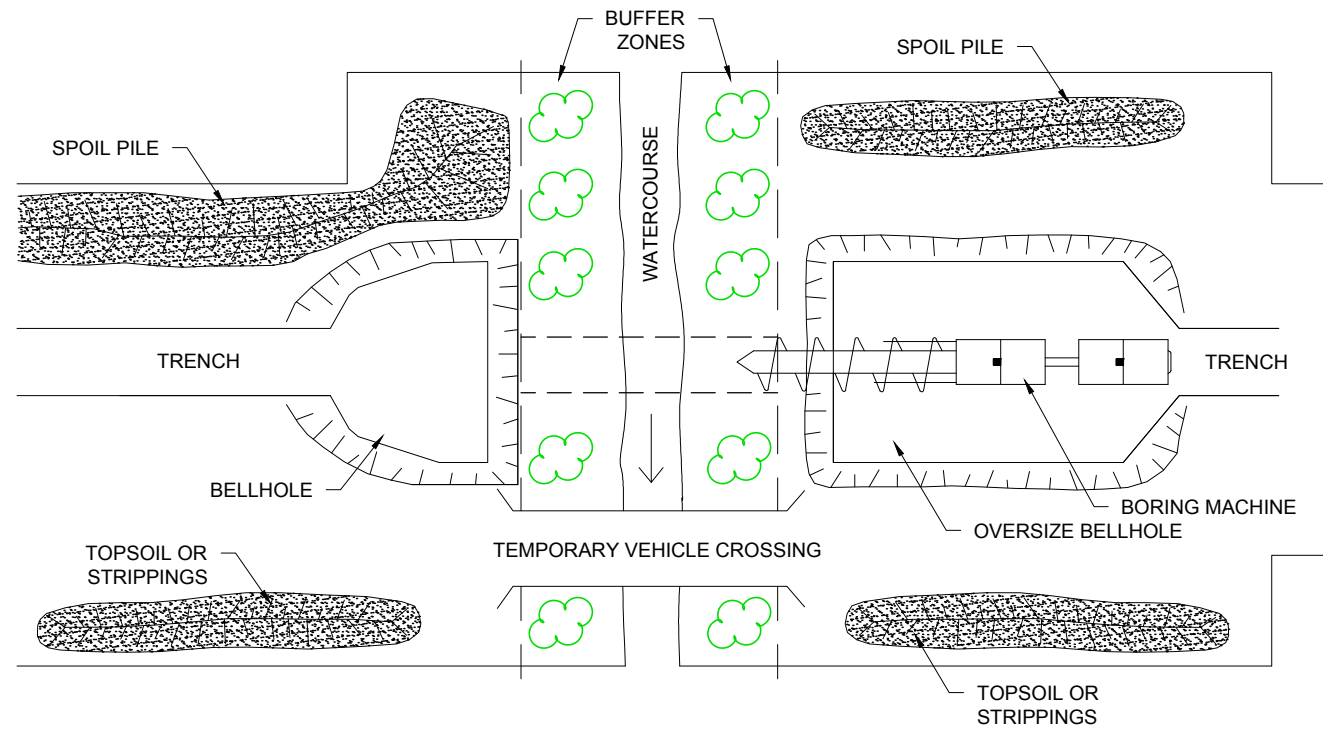


B **TYPICAL WATERBODY CROSSING OPEN-CUT DRY FLUME**
147T N.T.S.

NOTES:

1. THIS METHOD APPLIES TO SWALES, DRAINS, SMALL STREAMS OR CREEKS WITH LIMITED FLOW AT TIME OF CONSTRUCTION WHERE DOWNSTREAM SILTATION MUST BE AVOIDED AND THE CROSSING WIDTH IS NOT PROHIBITIVE.
2. SCHEDULE CROSSING DURING LOW FLOW PERIOD IF POSSIBLE.
3. COMPLETE ALL IN-STREAM ACTIVITIES AS EXPEDIENTLY AS POSSIBLE.
4. INSTALL TEMPORARY VEHICLE CROSSING, IF REQUIRED.
5. IN-STREAM SPOIL TO BE STORED OUT OF THE STREAM CHANNEL AND WITHIN THE CONSTRUCTION R.O.W. UNLESS DEPICTED OTHERWISE IN THE SITE SPECIFIC CROSSING PLANS.
6. CONSTRUCT SEDIMENT BARRIERS TO PREVENT SILT LADEN WATER AND SPOIL FROM FLOWING INTO WATERBODY. CONSTRUCTED SEDIMENT BARRIERS SHALL EXTEND ALONG THE SIDES OF THE SPOIL AND TOPSOIL STOCKPILES AND ACROSS THE ENTIRE CONSTRUCTION R.O.W. BARRIERS MAY BE TEMPORARILY REMOVED TO ALLOW CONSTRUCTION ACTIVITIES BUT MUST BE REPLACED BY THE END OF EACH WORK DAY.
7. CONSTRUCT UPSTREAM STRUCTURE (DAM) FOLLOWED BY DOWNSTREAM STRUCTURE (DAM). WATER STRUCTURES' (AQUA DAM, JERSEY BARRIERS, SAND BAGS, STEEL PLATE, POLYETHYLENE LINER, ETC.) FINAL LOCATION WILL BE APPROVED BY THE COMPANY INSPECTOR.
8. SIZE PUMPS FOR DIVERSION OF ENTIRE STREAM FLOW. CONTRACTOR SHALL MAINTAIN 100% SPARE PUMPING CAPACITY ON SITE. PUMPS SHALL BE INSTALLED ON POLYETHYLENE BARRIERS FOR FUEL/OIL SPILL CONTAINMENT. PUMP INTAKES WILL BE SCREENED TO PREVENT ENTRAPMENT OF FISH. CONTRACTOR SHALL MONITOR PUMPS AND WATER STRUCTURES ON A 24 HOUR BASIS UNTIL THE CROSSING INSTALLATION IS COMPLETE. SHOULD LEAKAGE AT THE DAM STRUCTURES OCCUR, CONTRACTOR SHALL DEWATER BETWEEN THE STRUCTURES THROUGH AN APPROPRIATE FILTER AND ONTO A WELL VEGETATED UPLAND AREA.
9. LEAVE HARD PLUGS AT STREAM BANK EDGE UNTIL JUST PRIOR TO PIPE INSTALLATION.
10. COMPLETE CONSTRUCTION OF IN-STREAM PIPE SECTION. WEIGHT PIPE AS NECESSARY PRIOR TO COMMENCEMENT OF IN-STREAM ACTIVITY.
11. TRENCH THROUGH WATERBODY AS EXPEDIENTLY AS PRACTICAL. INSTALL TEMPORARY (SOFT) PLUGS, IF NECESSARY, TO CONTROL WATER FLOW AND TRENCH SLOUGHING.
12. MAINTAIN STREAM FLOW THROUGHOUT CROSSING CONSTRUCTION.
13. LOWER-IN PIPE, INSTALL TRENCH PLUG AND BACKFILL IMMEDIATELY.
14. RESTORE WATERBODY CHANNEL TO APPROXIMATE PRE-CONSTRUCTION PROFILE AND SUBSTRATE.
15. DISMANTLE DOWNSTREAM WATER STRUCTURE (DAM) AND UPSTREAM WATER STRUCTURE (DAM) AFTER TRENCH BACKFILL.
16. RESTORE STREAM BANKS TO APPROXIMATE ORIGINAL CONDITION. STABILIZE WATERBODY BANKS AND INSTALL TEMPORARY BARRIERS.

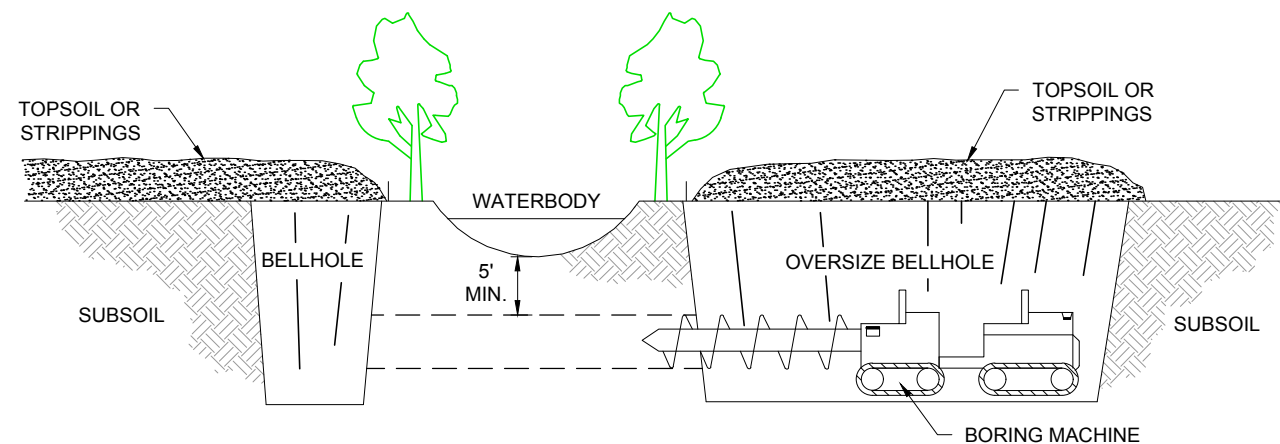
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	P01C-TYWC-04.DWG, P01C-TYWC-05.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL WATERBODY CROSSING OPEN-CUT DETAIL	
	SCALE: AS SHOWN		DATE: 9/21/2015		FIGURE NO. PA-147T	FILE NO. POA-1995-120



B
148T N.T.S.
TYPICAL SMALL CREEK CROSSING SECTION

NOTES:

1. NORMAL FLOW OF DRAINAGE NOT TO BE CHANGED FOLLOWING PIPELINE CONSTRUCTION OPERATIONS.
2. CONSTRUCT ALL CROSSINGS IN ACCORDANCE WITH ENVIRONMENTAL PERMIT REQUIREMENTS AND CONDITIONS.
3. PIPELINE TO BE INSTALLED BY OPEN-CUT METHOD.



A
148T N.T.S.
TYPICAL WATERBODY CROSSING HORIZONTAL BORE PLAN AND SECTION

Associated Engineering Drawings

P01C-TYWC-06.DWG, P01C-TYWC-07.DWG (BAKER) OCT 2013

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

DRAWING TITLE:

**TYPICAL WATERBODY
CROSSING DETAIL**

FIGURE NO.

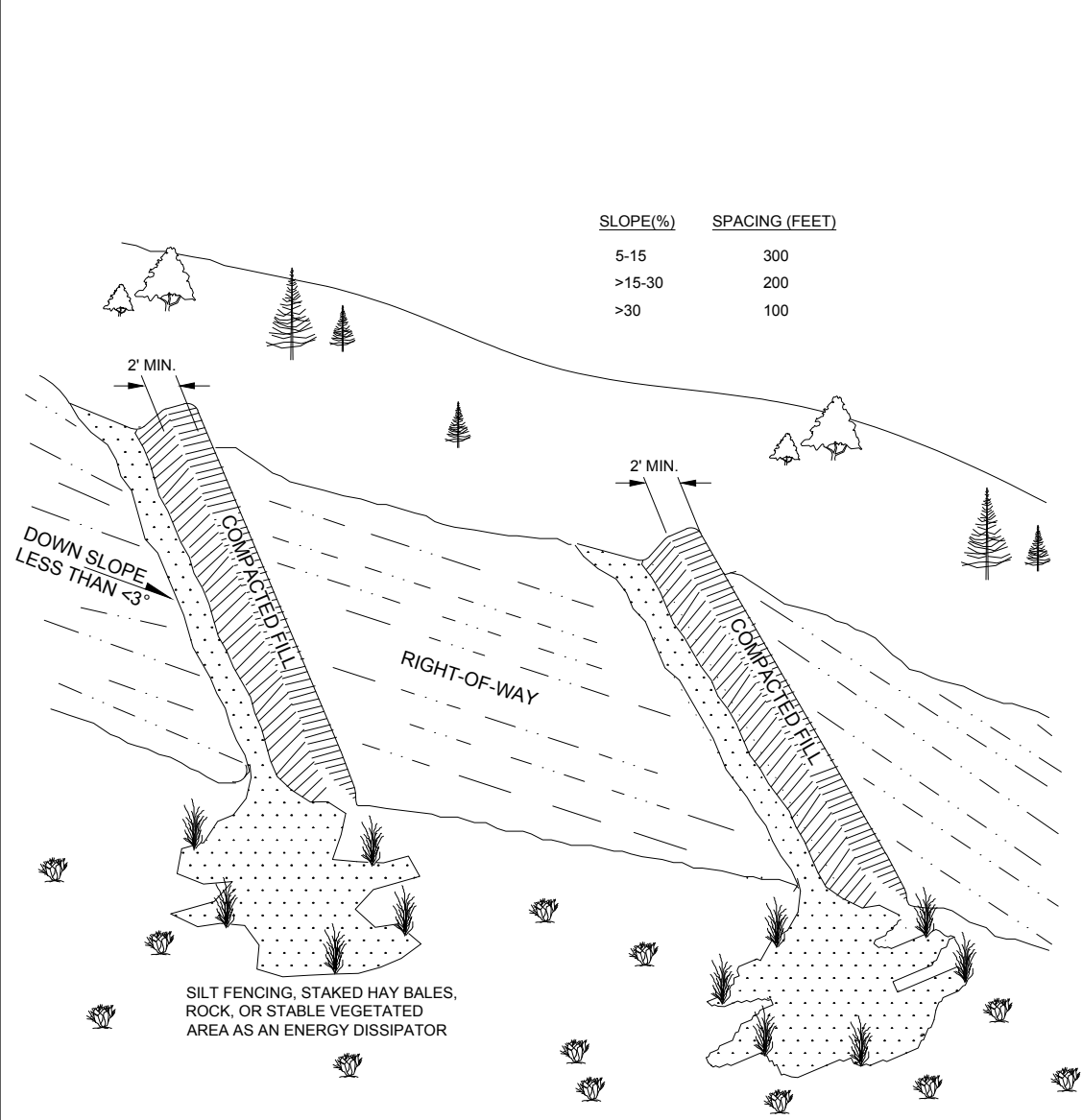
PA-148T

FILE NO.

POA-1995-120

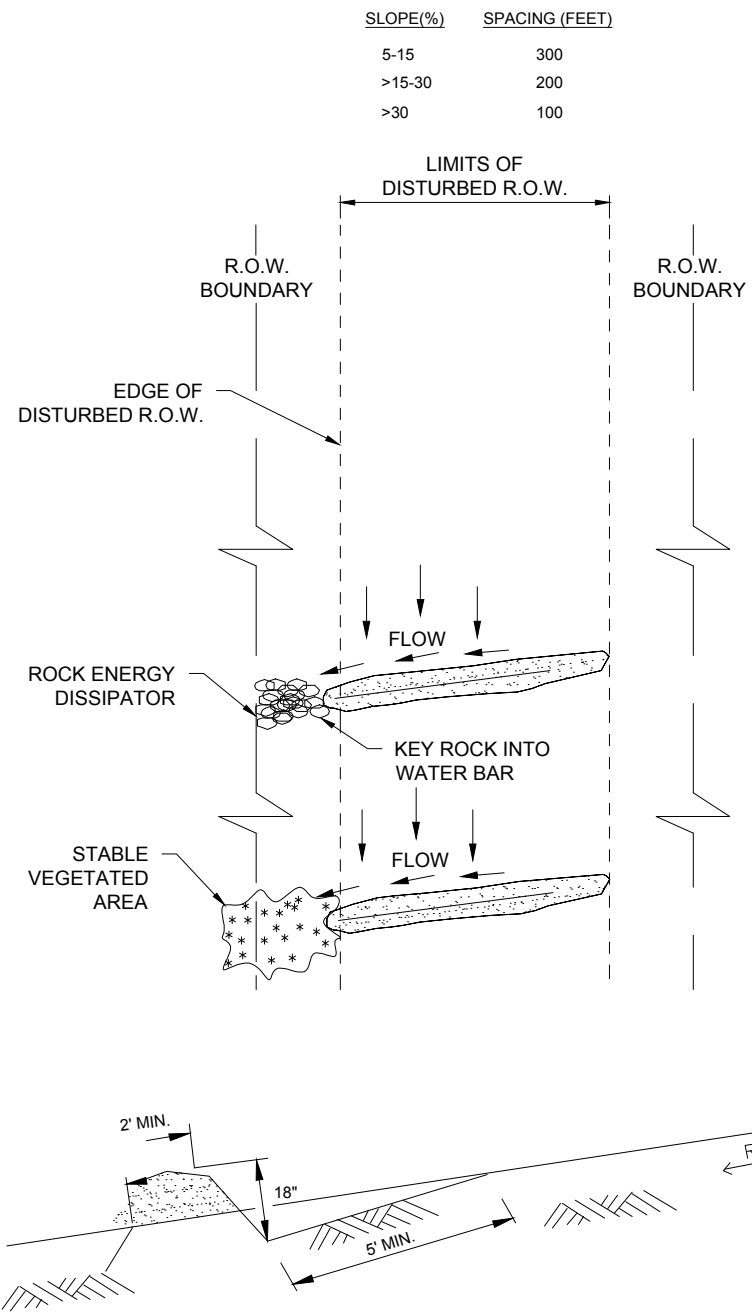
SCALE: AS SHOWN

DATE: 9/21/2015



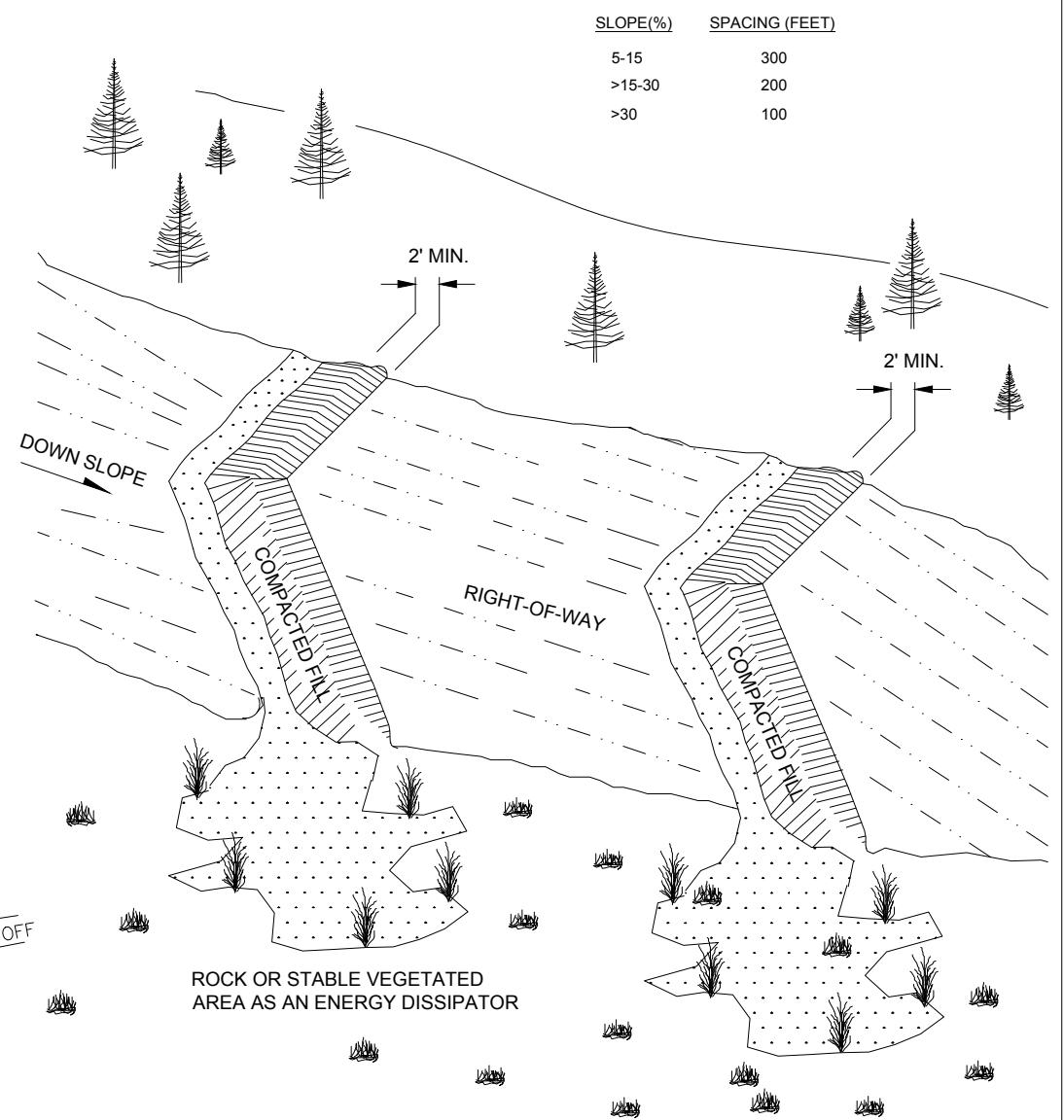
A
149T
TYPICAL SLOPE BREAKER WITH LONGITUDINAL CROSS SLOPES
N.T.S.

- SLOPE BREAKER NOTES:**
1. SLOPE BREAKERS SHALL BE CONSTRUCTED OF NATIVE SOIL AND INSTALLED AT LOCATIONS AS SHOWN ON THE CONSTRUCTION DRAWINGS, OR AS REQUIRED.
 2. SLOPE BREAKER SHALL BE ORIENTED AS SHOWN OR OTHER PATTERN AS REQUIRED.
 3. SLOPE BREAKERS SHALL BE CONSTRUCTED AT A 2-8% GRADIENT ACROSS THE SLOPE.
 4. THE SLOPE BREAKERS SHALL BE 18" DEEP (AS MEASURED FROM THE TROUGH TO THE TOP OF THE SLOPE BREAKER). THE TROUGH WILL BE A MINIMUM OF 5' WIDE ACROSS THE WIDTH OF THE RIGHT-OF-WAY.
 5. THE OUTLET OF THE SLOPE BREAKER MUST FREELY DISCHARGE ALL RUNOFF OFF THE DISTURBED R.O.W. INTO A STABLE, WELL VEGETATED AREA OR INTO AN ENERGY DISSIPATOR.
 6. WHERE SLOPE BREAKERS EXTEND BEYOND THE EDGE OF THE CONSTRUCTION R.O.W. TO DIRECT RUNOFF INTO STABLE, WELL VEGETATED AREAS, THESE LOCATIONS MUST BE APPROVED.

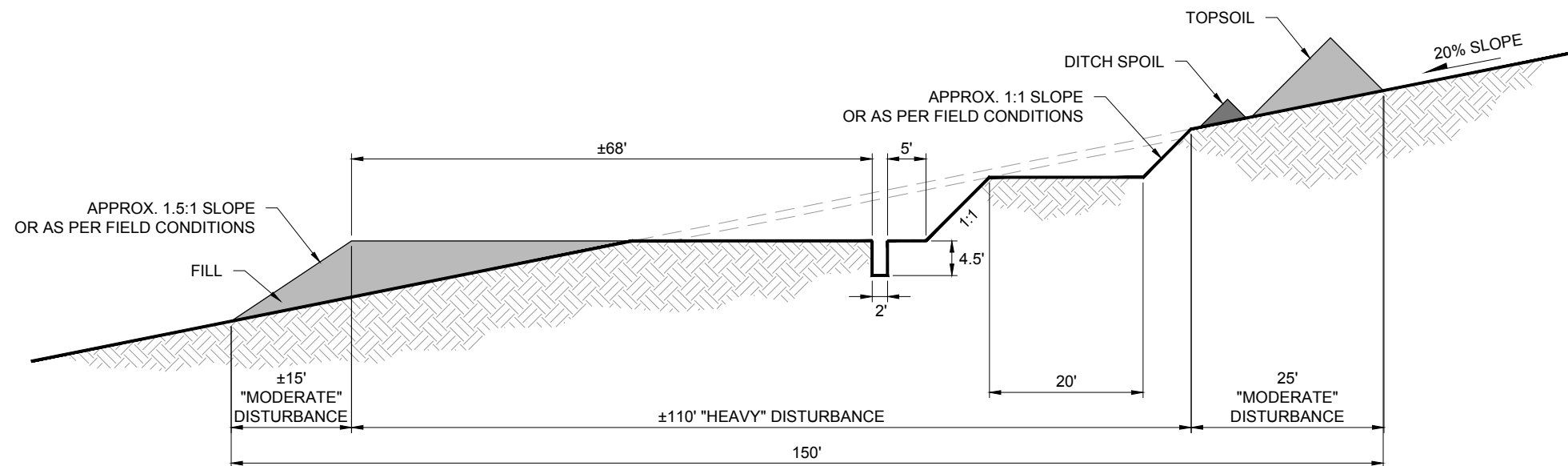


B
149T
TYPICAL SLOPE BREAKER WITH LONGITUDINAL CROSS SLOPES
N.T.S.

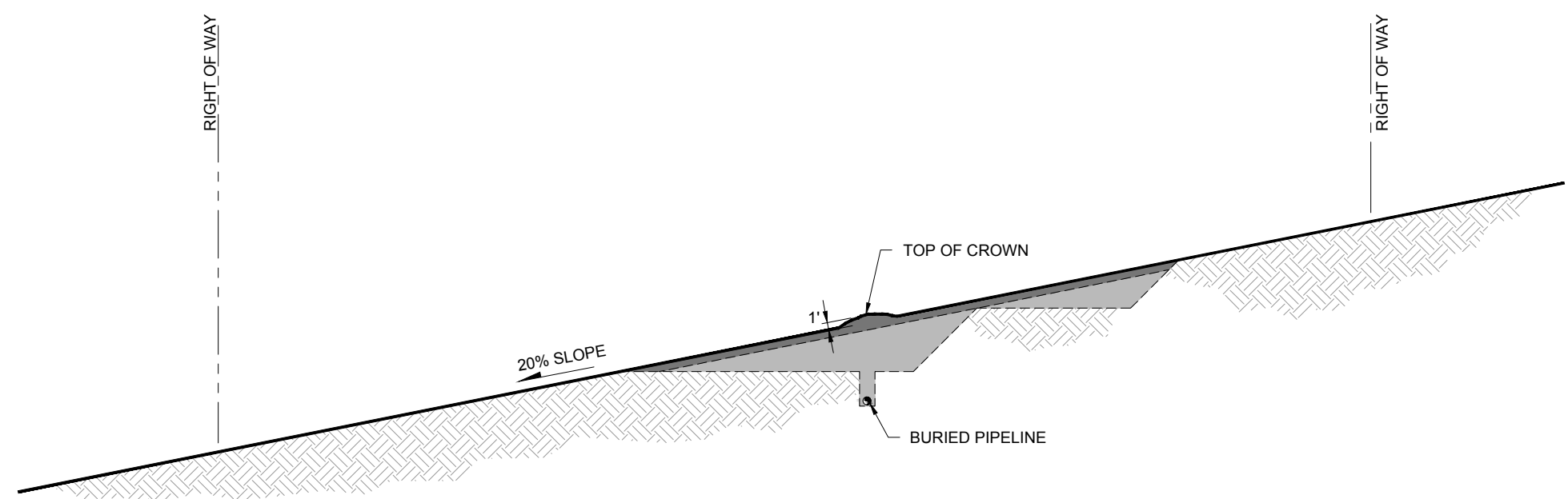
- FLOW ENERGY DISSIPATOR NOTES:**
1. THE OUTLET SHALL CONTAIN AN ENERGY DISSIPATOR IF THE COMPANY DETERMINES EXISTING VEGETATION IS NOT SUFFICIENTLY STABLE TO PREVENT EROSION. THE ENERGY DISSIPATOR SHALL BE CONSTRUCTED AS FOLLOWS:
 - OUTFALL END OF DISSIPATOR SHOULD BE LOWER THAN SLOPE BREAKER END.
 - SILT FENCE, STRAW BALE OR ROCK DISSIPATORS SHOULD BE KEYED INTO THE END OF THE SLOPE BREAKER. PROVIDE ENOUGH AREA INSIDE "L" TO CAPTURE AND HOLD SEDIMENT.



C
149T
TYPICAL SLOPE BREAKER WITH LONGITUDINAL CROSS SLOPES
N.T.S.

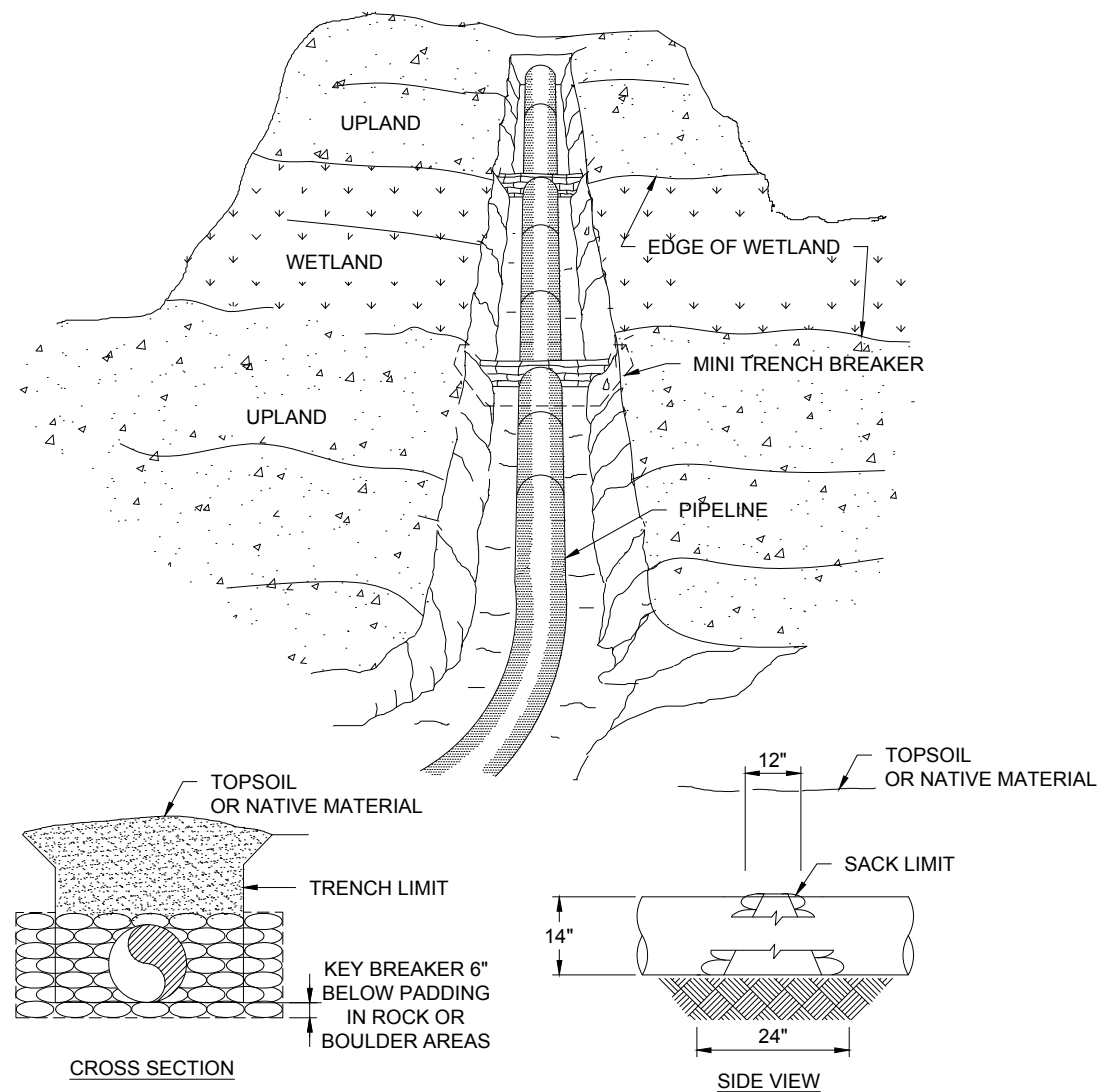


A
150T
ACTIVE CONSTRUCTION RIGHT OF WAY
N.T.S.



B
150T
RECLAIMED RIGHT OF WAY
N.T.S.

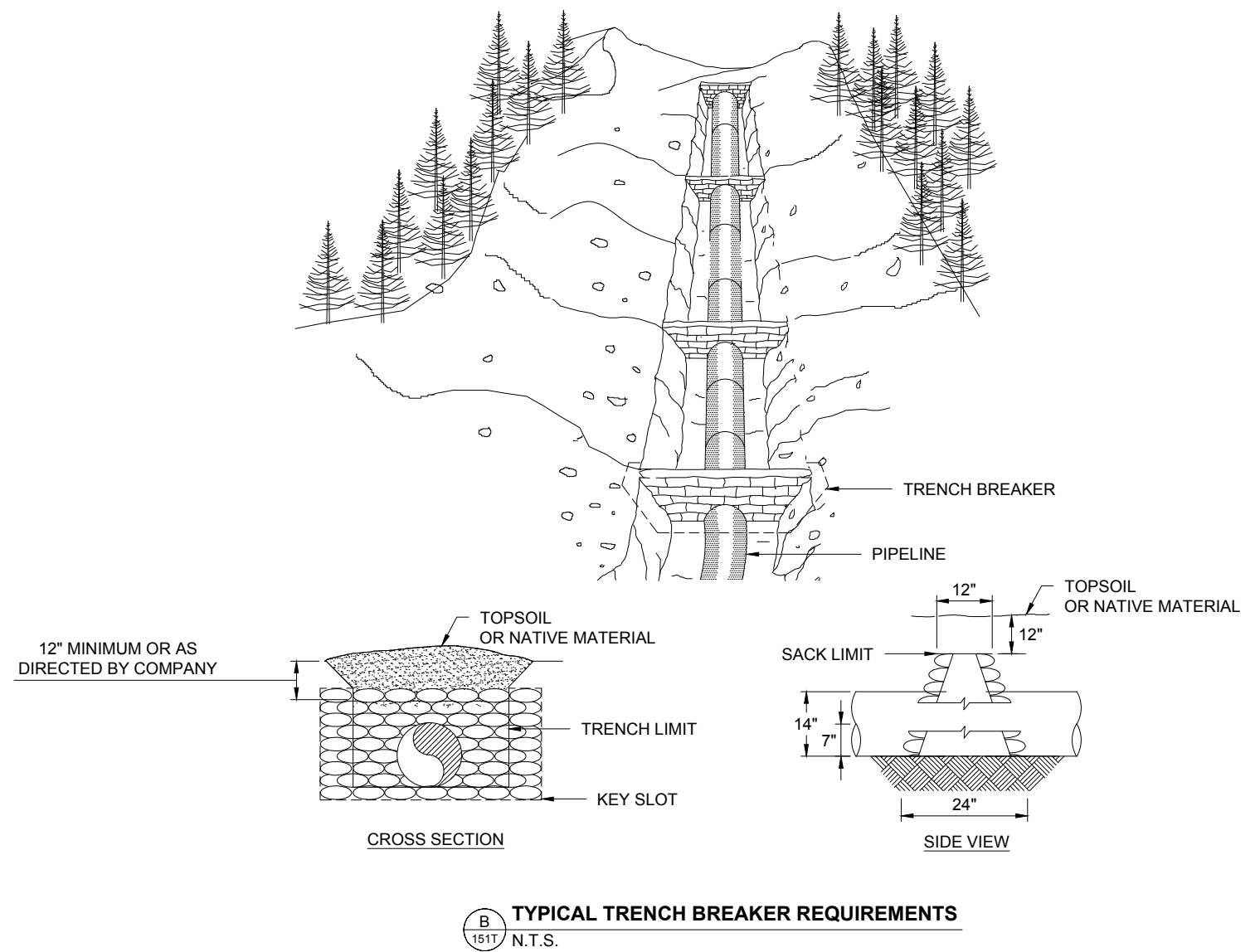
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01W-TYRW-01.DWG, P01W-TYRW-02.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL SIDE SLOPE SECTION - TWO TONED DETAIL	
	SCALE: AS SHOWN		DATE: 9/21/2015		FIGURE NO. PA-150T	FILE NO. POA-1995-120



A
151T
ACTIVE CONSTRUCTION RIGHT OF WAY
N.T.S.

NOTES:

1. MINI-TRENCH BREAKERS SHALL BE INSTALLED AT EDGE OF EACH WETLAND.
2. OPEN WEAVE HEMP OR JUTE SACKS SHALL BE FILLED WITH A MINIMUM OF 55lbs. OF SAND OR SUBSOIL.
3. BREAKER CONFIGURATION MAY BE CHANGED TO INCLUDE KEYING AS DETERMINED BY COMPANY ENGINEER.

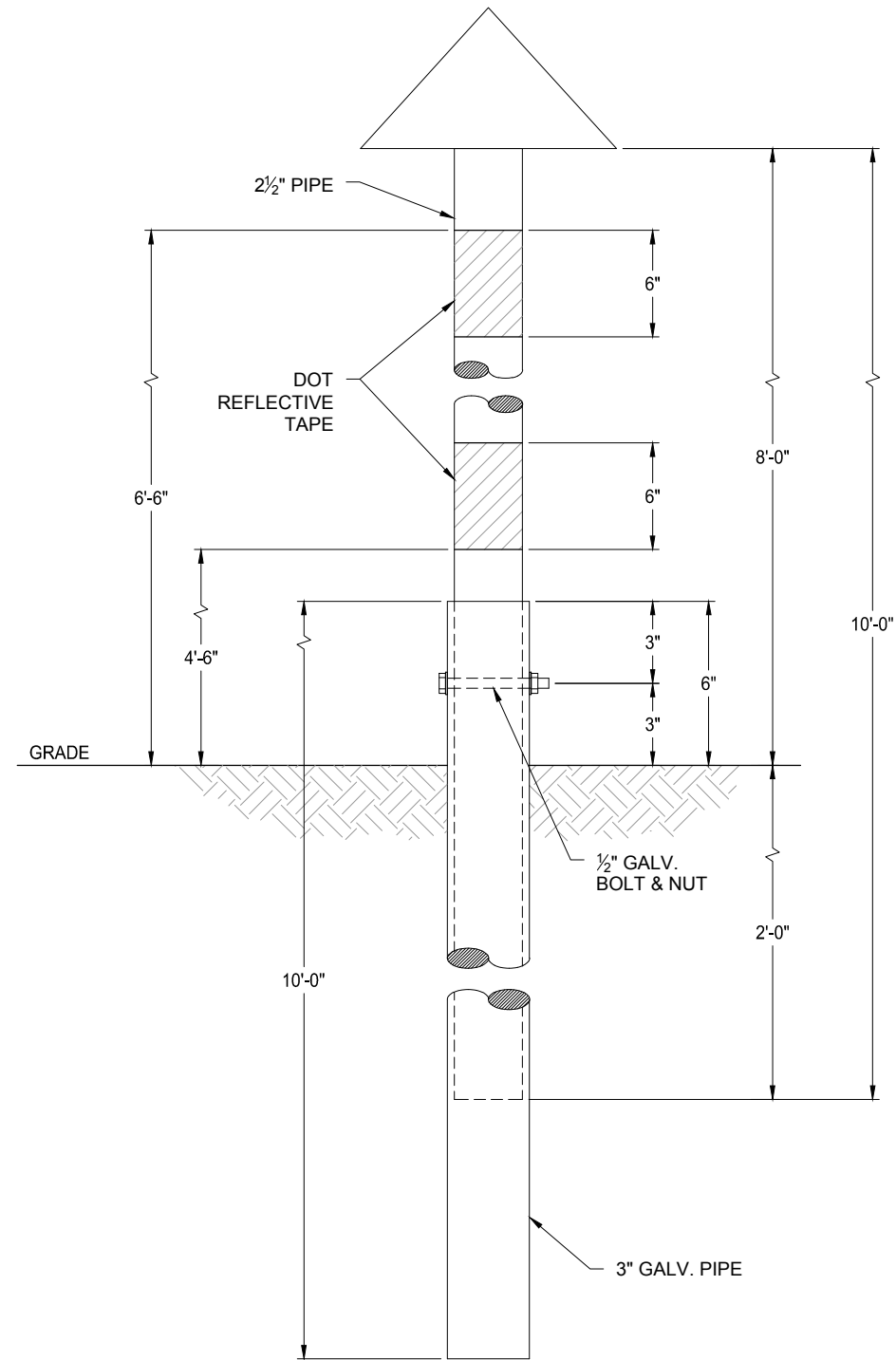


B
151T
TYPICAL TRENCH BREAKER REQUIREMENTS
N.T.S.

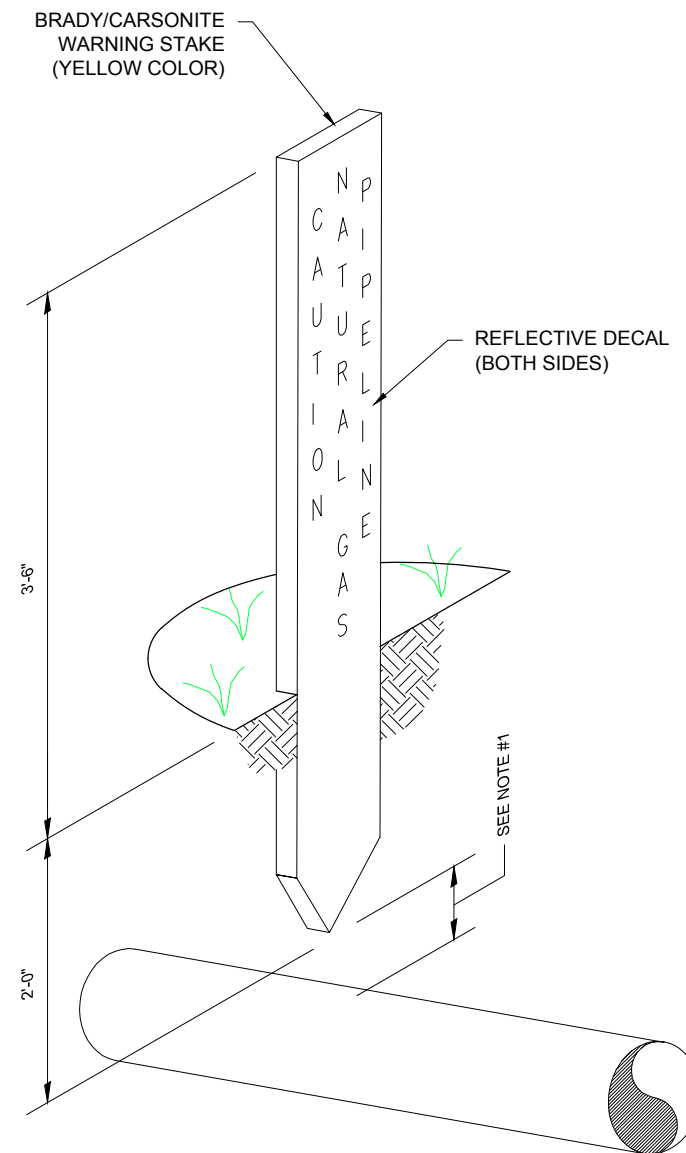
NOTES:

1. TRENCH BREAKERS SHALL BE INSTALLED:
 - ON SLOPES ALONG THE TRENCH LINE WHERE THE NATURAL DRAINAGE PATTERN, PROFILE, AND TYPE OF BACKFILL MATERIAL MAY RESULT IN LOSS OF BACKFILL MATERIAL OR ALTERATION OF THE NATURAL PATTERN
 - AT THE BASE OF SLOPES ADJACENT TO WATERBODIES AND WETLANDS
 - WHERE NEEDED TO AVOID DRAINING A WETLAND
2. OPEN WEAVE HEMP OR JUTE SACKS SHALL BE FILLED WITH A MINIMUM OF 55lbs IN A MIXTURE OF SAND & SUBSOIL.
3. BREAKER SPACING AND CONFIGURATION, INCLUDING THE NEED TO KEY THE BREAKER INTO THE UNDISTURBED SOIL AT THE SIDES AND BOTTOM OF THE TRENCH, MAY CHANGE AS DETERMINED BY COMPANY ENGINEER.

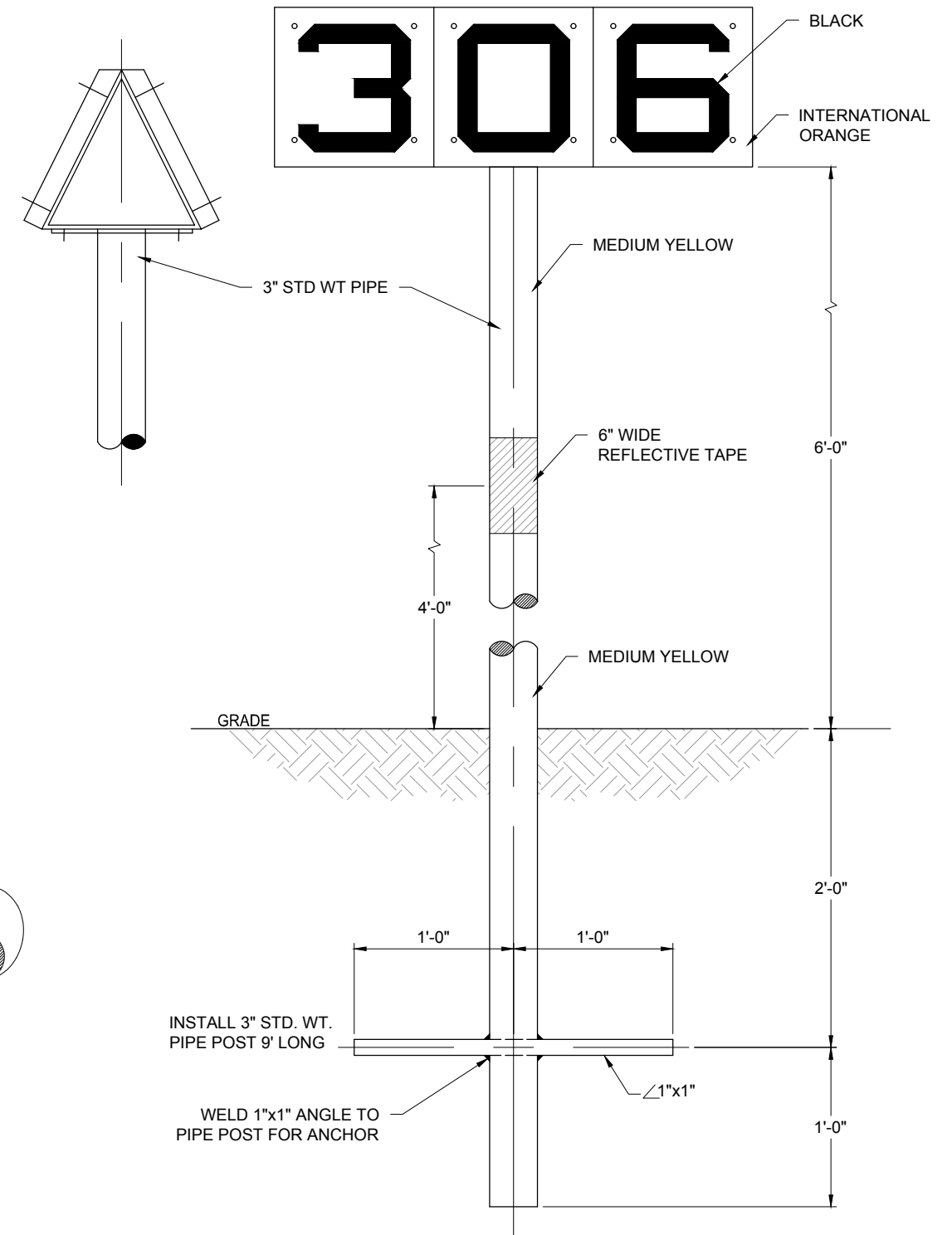
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			SCALE: AS SHOWN		FIGURE NO. PA-151T	FILE NO. POA-1995-120



A
152T
TYPICAL PIPELINE MARKER
N.T.S.



B
152T
TYPICAL PIPELINE WARNING MARKER
N.T.S.



C
152T
TYPICAL PIPELINE AERIAL MARKER
N.T.S.

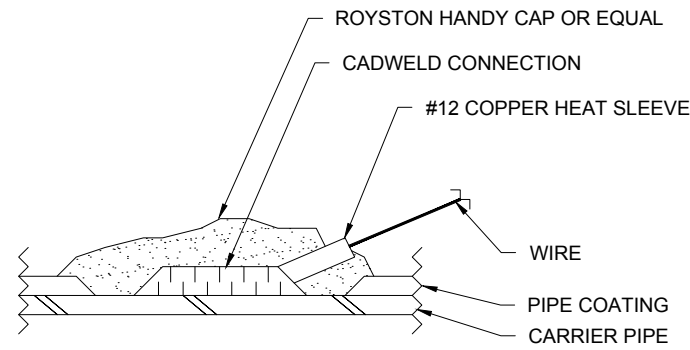
NOTES:

1. MARKERS SHALL BE PLACED DIRECTLY OVER THE PIPELINE WHEN THERE IS AT LEAST 1'-0" OF CLEARANCE BETWEEN THE TOP OF THE PIPE.
2. PIPE AND THE BOTTOM OF THE MARKER. MARKERS SHALL BE SLIGHTLY OFFSET IF THE CLEARANCE IS LESS THAN 1'-0". MARKERS WILL BE OFFSET IF THE PIPELINE IS IN A ROADWAY.

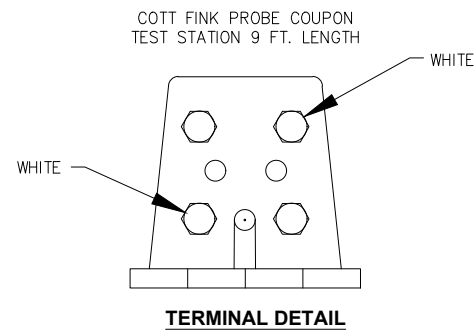
NOTES:

1. CONTRACTOR TO ASSEMBLE SIGN AND MOUNT ON POST.
2. REFLECTIVE STRIPING SHOULD BE ADDED ON ALL SIDES OF POST.

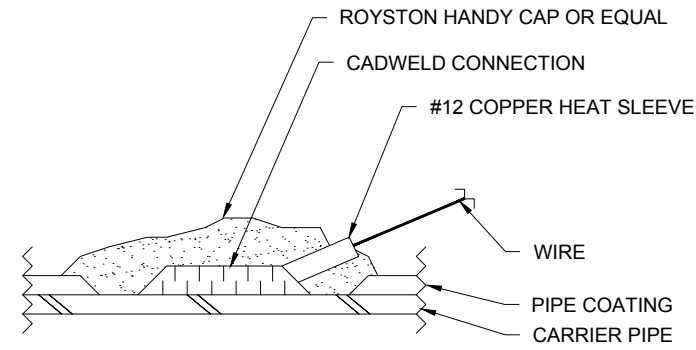
Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
P01C-TYMK-01.DWG, P01C-TYMK-02.DWG, P01C-TYMK-03.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL PIPELINE MARKER DETAIL	
SCALE: AS SHOWN		DATE: 9/21/2015		FIGURE NO. PA-152T	FILE NO. POA-1995-120



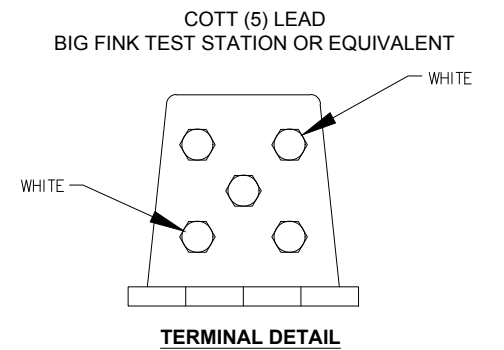
PIPE CONNECTION DETAIL
(SEE NOTES 3, 4, & 5)



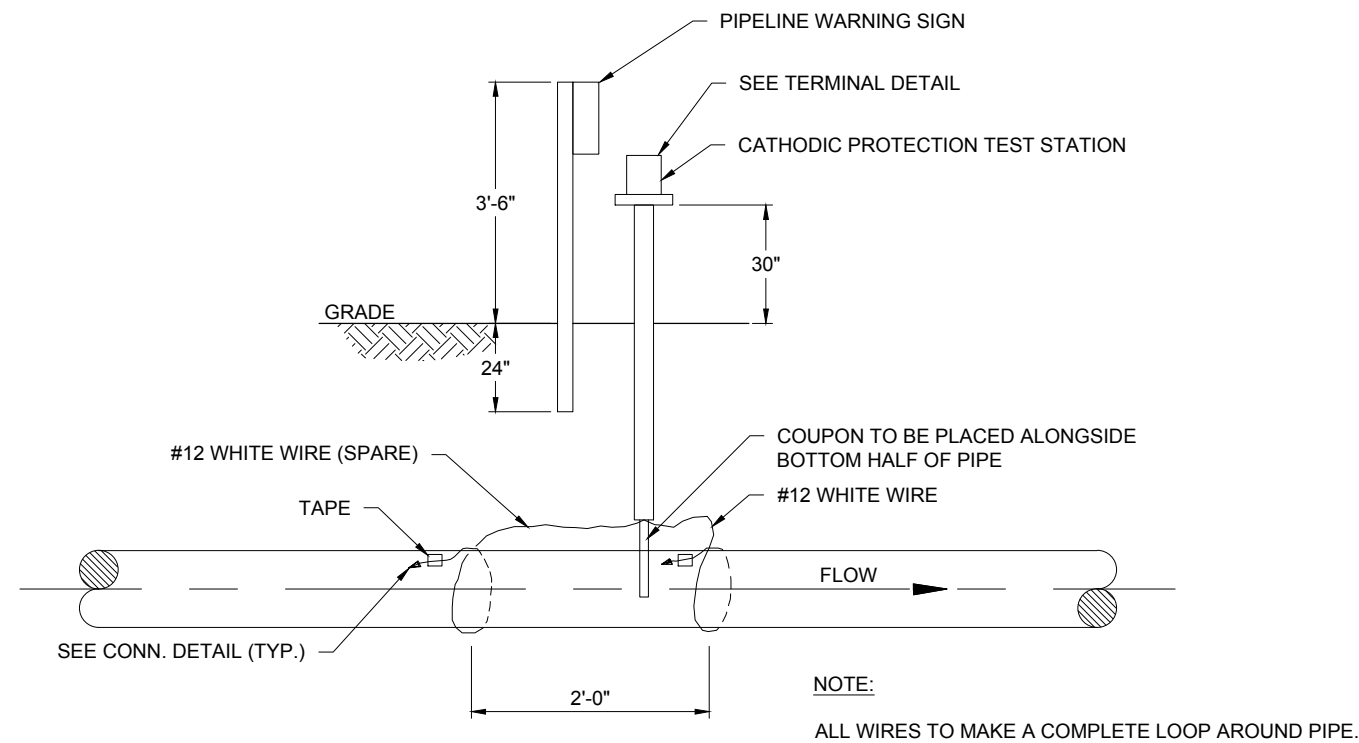
NOTE:
WIRES TO BE TERMINATED WITH RING TERMINALS.



PIPE CONNECTION DETAIL
(SEE NOTES 3, 4, & 5)



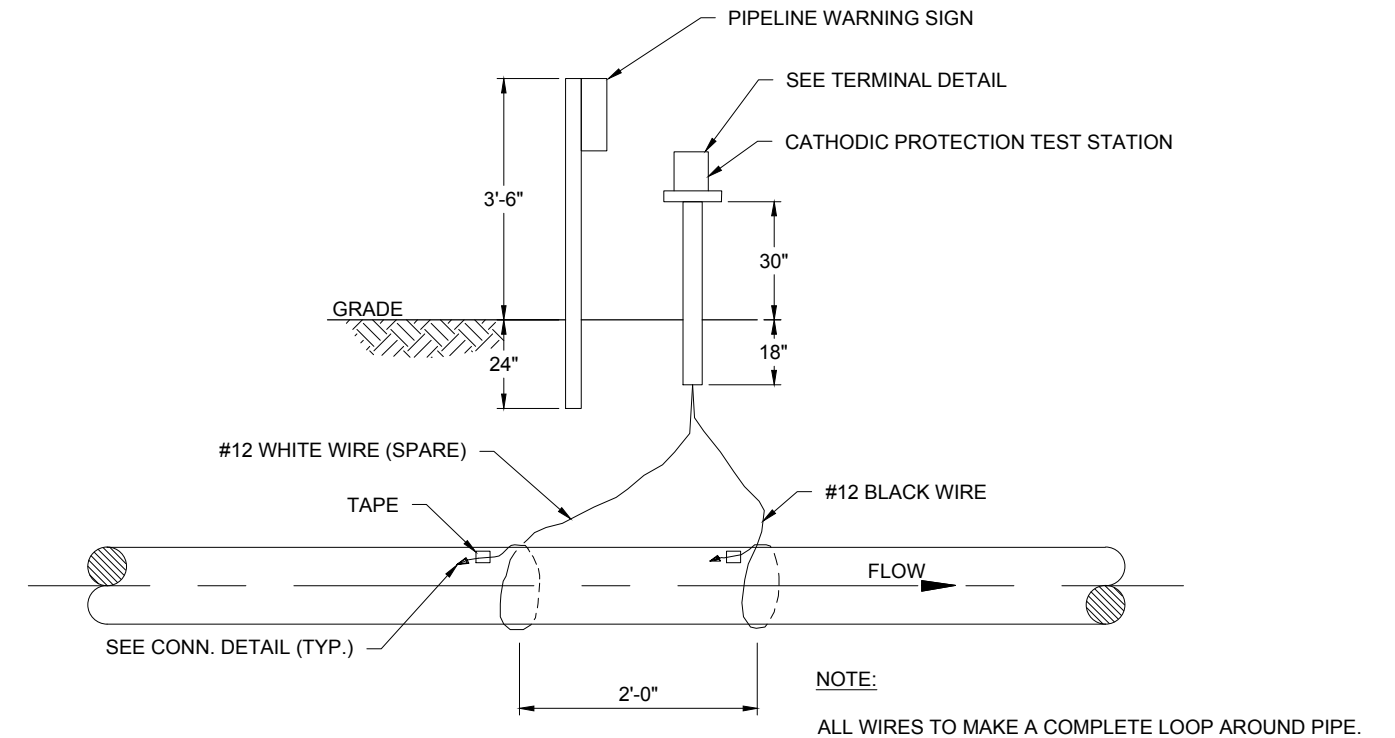
NOTE:
WIRES TO BE TERMINATED WITH RING TERMINALS.



A **TYPICAL CATHODIC PROTECTION COUPON TEST STATION**
153T N.T.S.

NOTES:

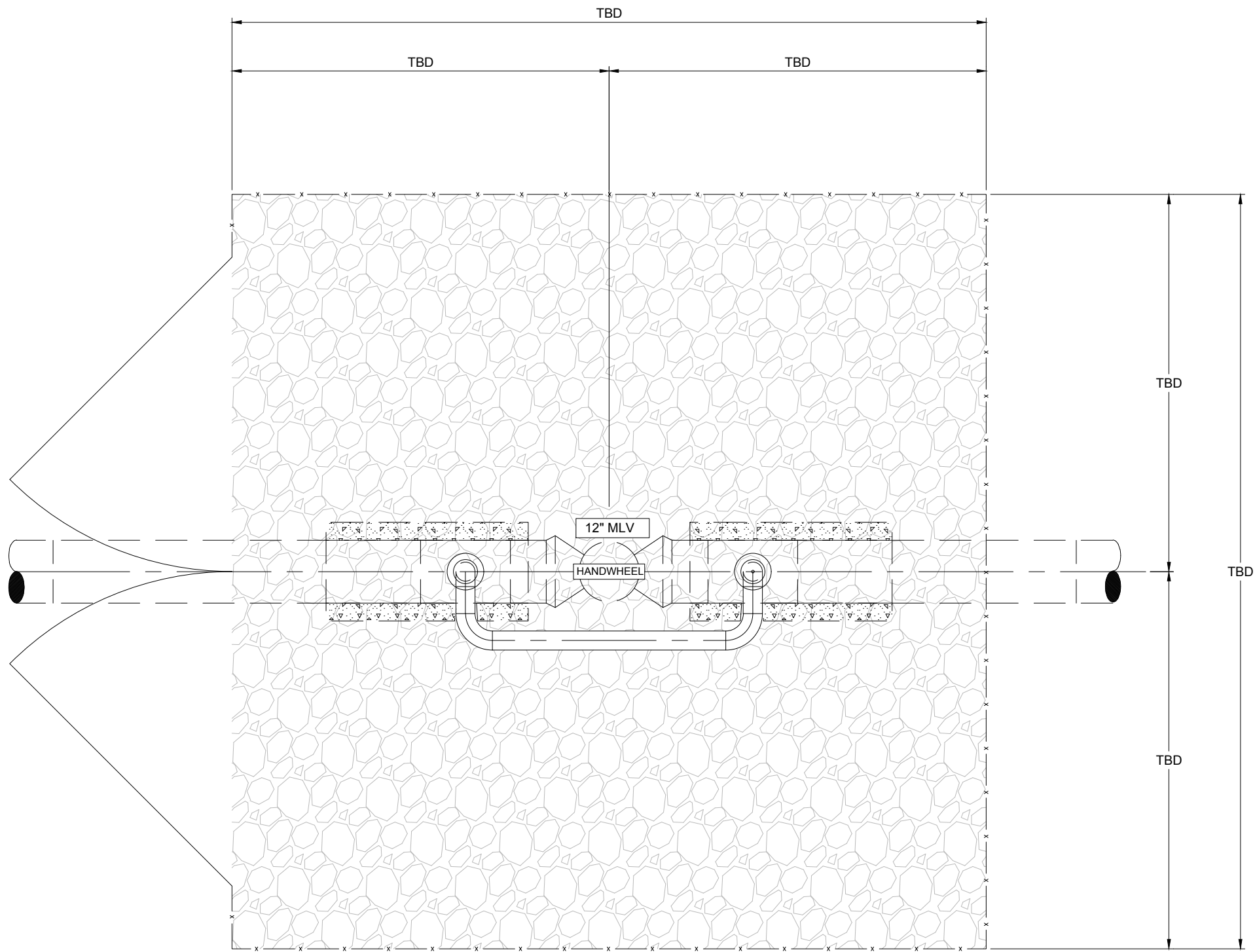
1. ALL WIRE SHALL BE INSULATED STRANDED COPPER #12 THHN AS SHOWN ABOVE.
2. TERMINAL BLOCK SHALL BE WIRED BY CONTRACTOR AS SHOWN IN TERMINAL DETAIL ABOVE.
3. ALL WIRE CONNECTIONS TO CARRIER PIPE SHALL BE MADE AS SHOWN IN DETAIL ABOVE. WIRE SHALL BE CONNECTED TO PIPE BY CADWELD PROCESS WITH COPPER HEAT SLEEVE.
4. CADWELD WIRE CONNECTIONS SHALL BE PRIMED WITH ROYSTON SPRAY PRIMER OR EQUAL AND ALLOWED TO DRY 3 TO 4 MINUTES OR UNTIL TACKY, AND COVERED WITH ROYSTON HANDY CAP OR EQUAL.
5. WIRE INSULATION SHALL BE PROTECTED FROM DAMAGE.
6. LAY WIRES ALONGSIDE PIPE. NOT OVER OR UNDER PIPE.
7. CATHODIC PROTECTION TEST STATION AND ALL OTHER MATERIALS SHALL BE FURNISHED BY CONTRACTOR.
8. INSTALL AT ALL LOCATIONS INDICATED ON ALIGNMENT SHEETS.



B **TYPICAL PIPELINE WARNING MARKER**
153T N.T.S.

NOTES:

1. ALL WIRE SHALL BE INSULATED STRANDED COPPER #12 THHN AS SHOWN ABOVE.
2. TERMINAL BLOCK SHALL BE WIRED BY CONTRACTOR AS SHOWN IN TERMINAL DETAIL ABOVE.
3. ALL WIRE CONNECTIONS TO CARRIER PIPE SHALL BE MADE AS SHOWN IN DETAIL ABOVE. WIRE SHALL BE CONNECTED TO PIPE BY CADWELD PROCESS WITH COPPER HEAT SLEEVE.
4. CADWELD WIRE CONNECTIONS SHALL BE PRIMED WITH ROYSTON SPRAY PRIMER OR EQUAL AND ALLOWED TO DRY 3 TO 4 MINUTES OR UNTIL TACKY, AND COVERED WITH ROYSTON HANDY CAP OR EQUAL.
5. WIRE INSULATION SHALL BE PROTECTED FROM DAMAGE.
6. LAY WIRES ALONGSIDE PIPE. NOT OVER OR UNDER PIPE.
7. CATHODIC PROTECTION TEST STATION AND ALL OTHER MATERIALS SHALL BE FURNISHED BY CONTRACTOR.
8. INSTALL AT ALL LOCATIONS INDICATED ON ALIGNMENT SHEETS.

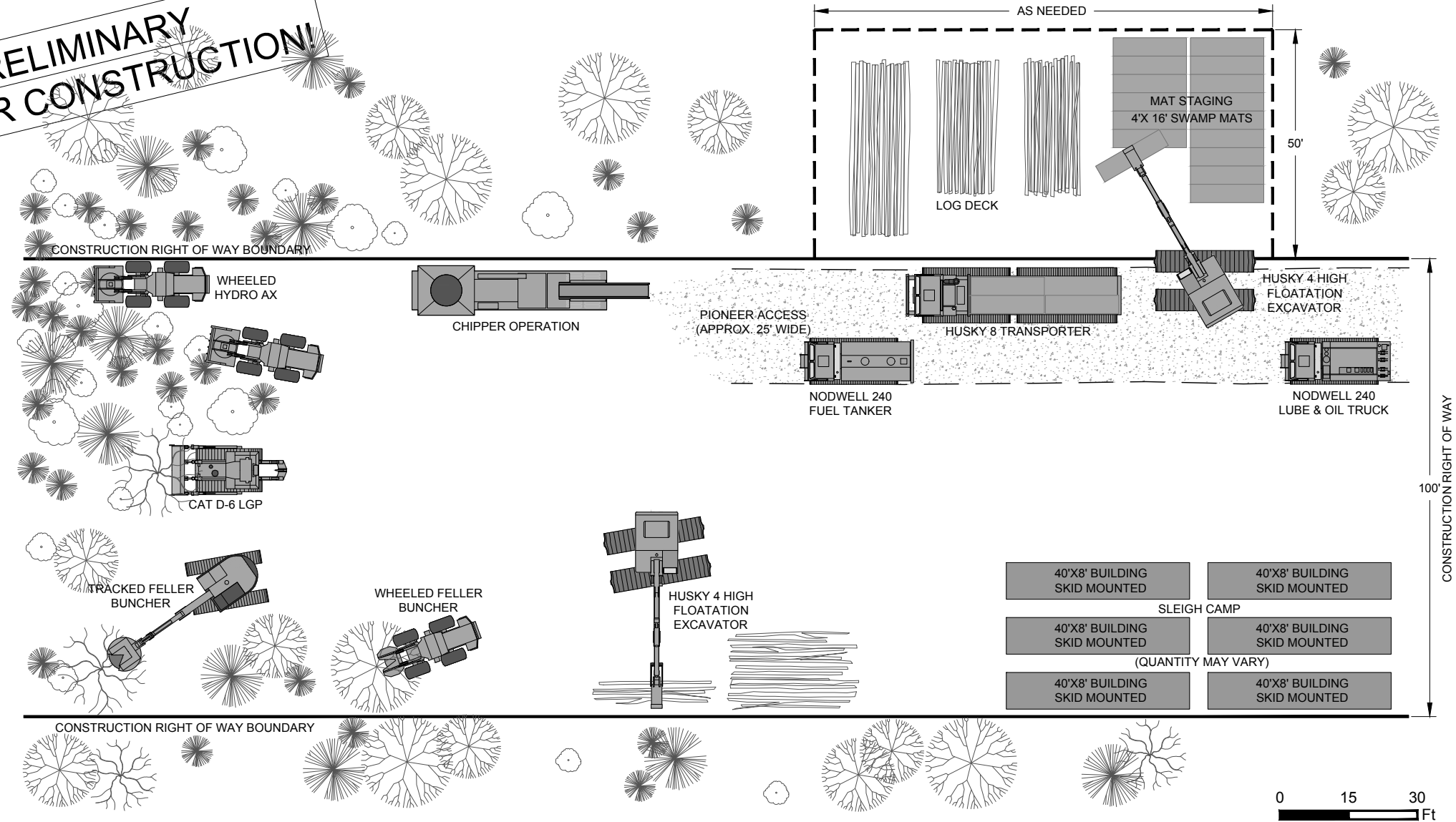


A
154T
TYPICAL MLV FENCING
N.T.S.

- NOTES:**
- 1. REFERENCE DRAWING (DONLIN PIPELINE MLV DWG) AND CONSTRUCTION SPECIFICATIONS FOR DETAILED CONSTRUCTION GUIDELINES.
 - 2. LOCATION OF GATE TO BE FIELD DETERMINED.

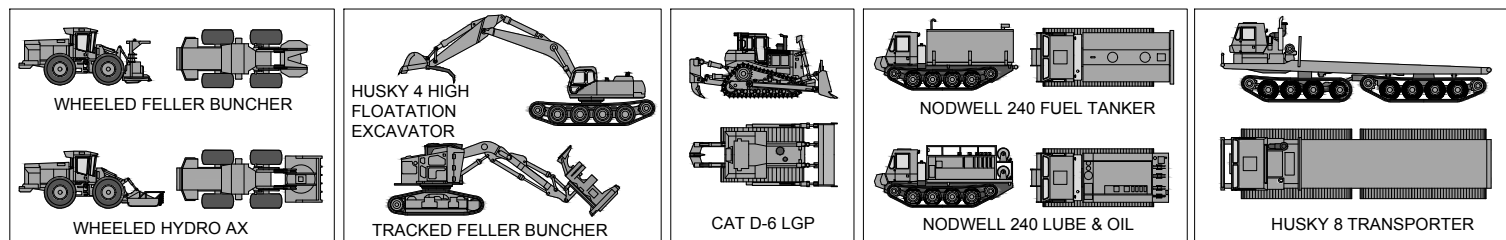
	Associated Engineering Drawings		DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE:	
	P01M-DTVA-01.DWG (BAKER) OCT 2013				TYPICAL MLV FENCING DETAIL	
					FIGURE NO.	FILE NO.
	SCALE: AS SHOWN		DATE: 9/21/2015		PA-154T	POA-1995-120

PRELIMINARY
NOT FOR CONSTRUCTION!



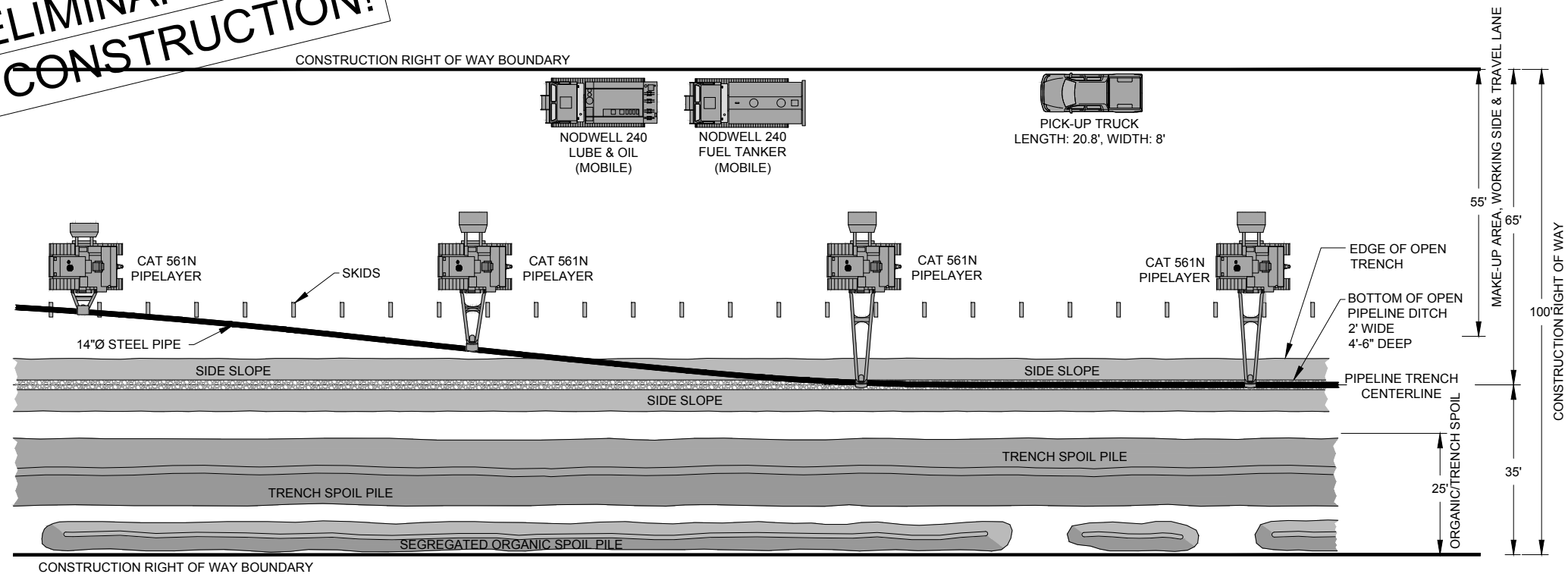
NOTES:
1. EQUIPMENT QUANTITY AND TYPE MAY VARY.

LEGEND
—— PERMANENT RIGHT OF WAY BOUNDARY
- - - - - TEMPORARY USE AREA



Associated Engineering Drawings P01C-TYRWS-01.DWG (BAKER) OCT 2013	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: RIGHT OF WAY PLAN SUMMER GRADED R.O.W.MODE	
	SCALE: AS SHOWN		FIGURE NO.: PA-155T	FILE NO.: POA-1995-120
	DATE: 9/21/2015			

PRELIMINARY
NOT FOR CONSTRUCTION!



LEGEND

- PIPELINE/TRENCH CENTERLINE
- CONSTRUCTION R.O.W. BOUNDARY
- TRENCH SPOIL PILE
- ORGANIC SPOIL PILE
- BOTTOM OF OPEN PIPELINE TRENCH
- SIDESLOPES OF OPEN TRENCH

NOTES:
1. EQUIPMENT QUANTITY AND TYPE MAY VARY.

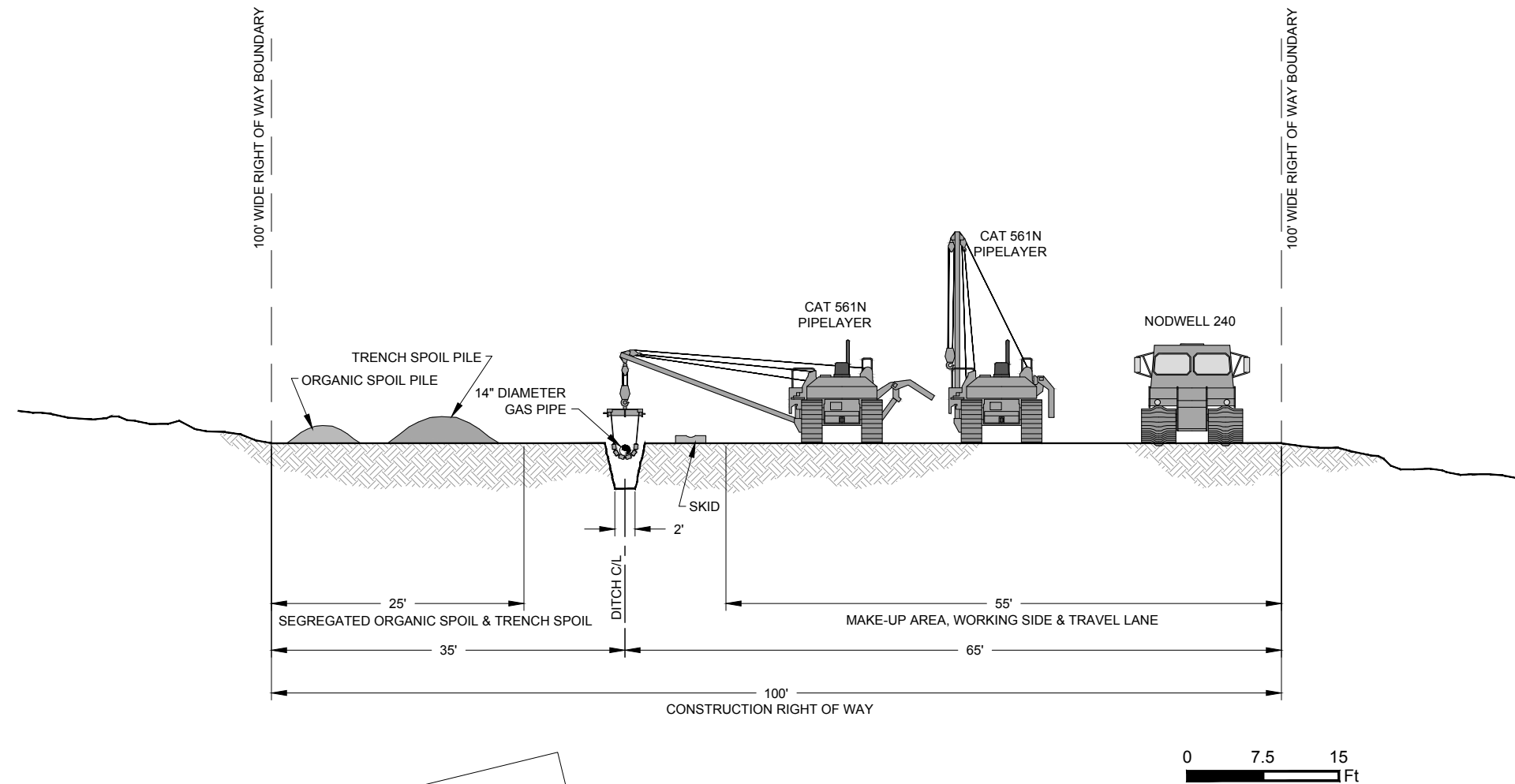
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MEGA CAB
PICK-UP

NODWELL 240 FUEL TANKER/WATER
TANKER

NODWELL 240 LUBE & OIL

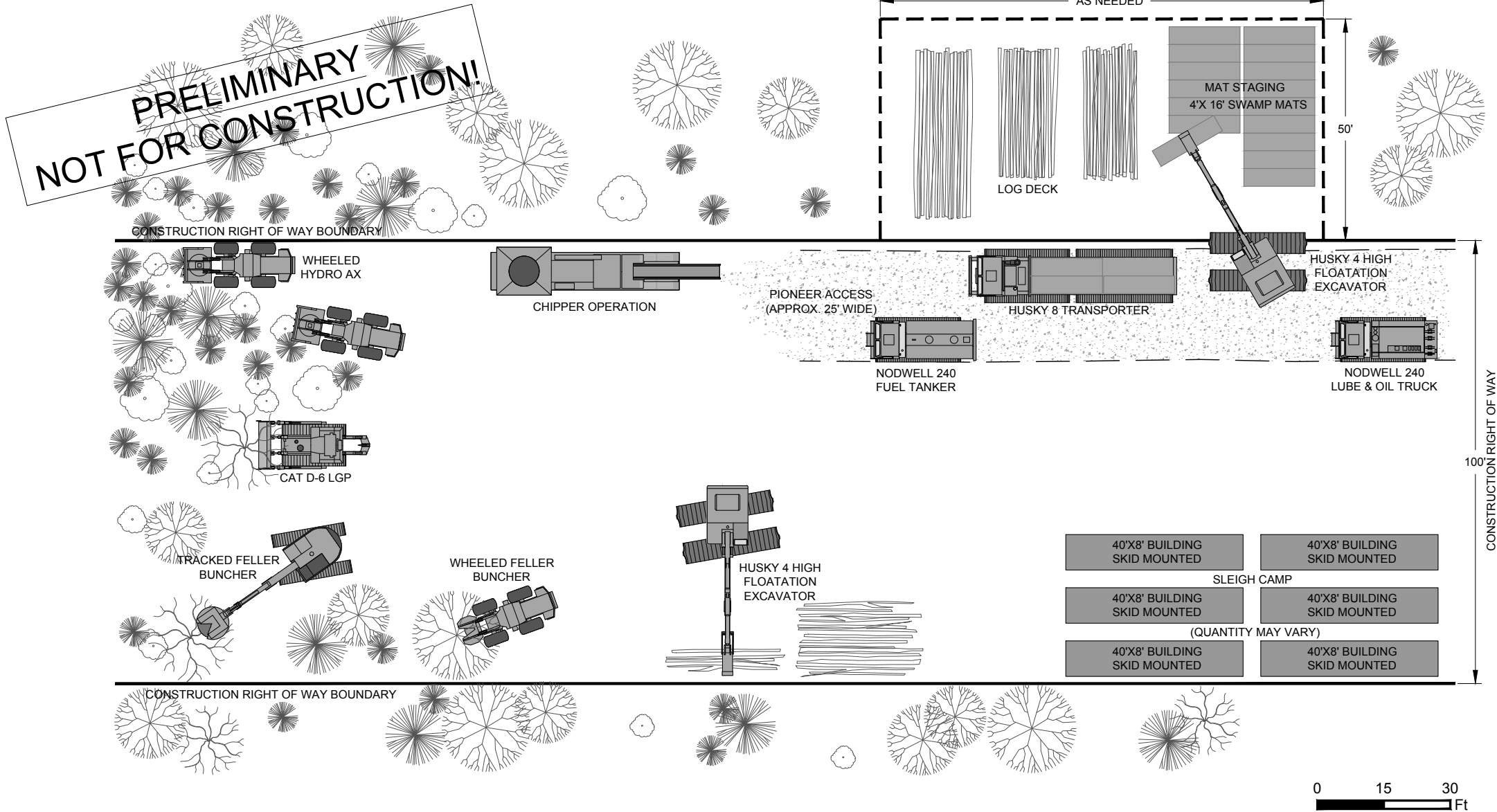
CAT 561N
PIPELAYER

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYRWS-05.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		RIGHT OF WAY PLAN SUMMER GRADED R.O.W. MODE	
	SCALE: AS SHOWN		DATE: 9/21/2015		FIGURE NO. PA-156T	FILE NO. POA-1995-120



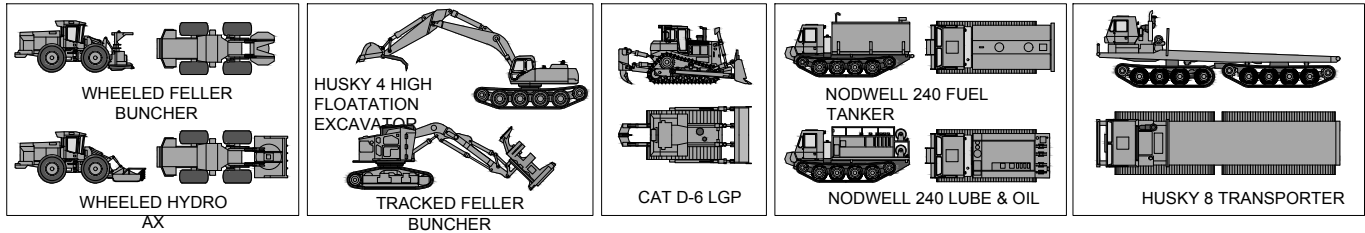
**PRELIMINARY
NOT FOR CONSTRUCTION!**

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYRWS-07.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		CROSS SECTION SUMMER GRADED R.O.W. MODE	
			SCALE: AS SHOWN	DATE: 9/21/2015	FIGURE NO. PA-157T	FILE NO. POA-1995-120



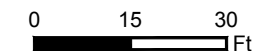
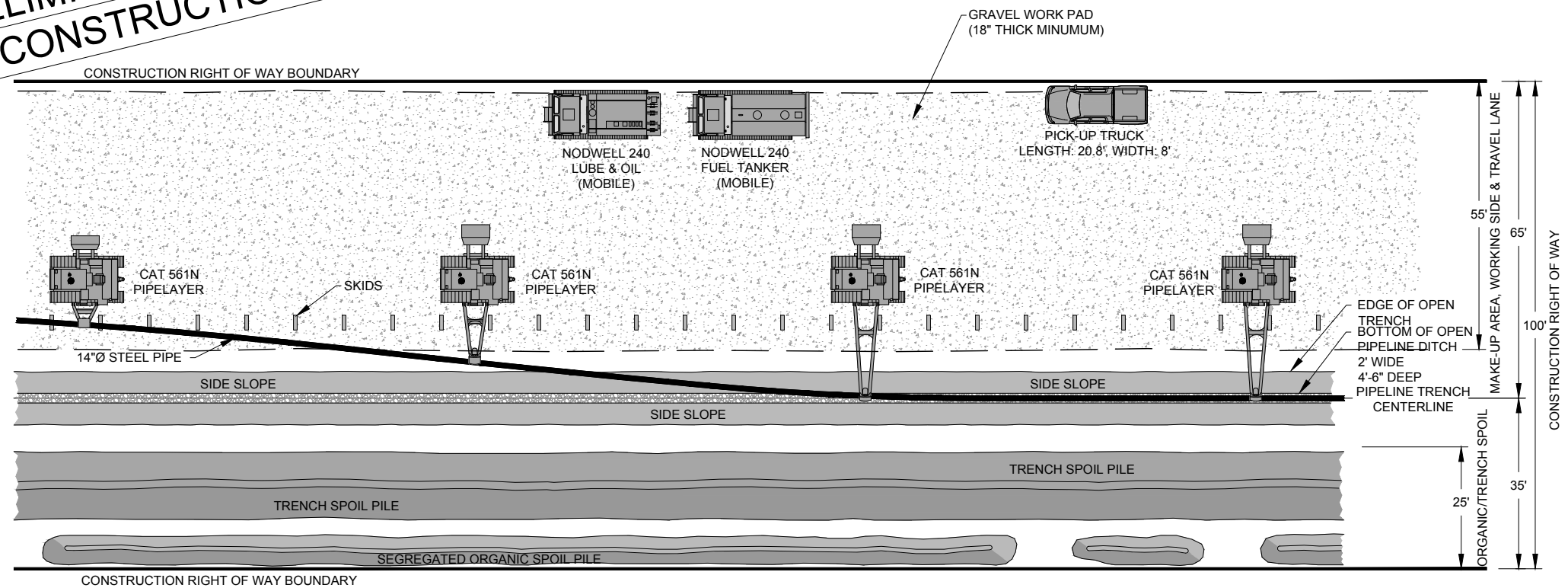
LEGEND
—— PERMANENT RIGHT OF WAY BOUNDARY
- - - - TEMPORARY USE AREA

NOTES:
1. EQUIPMENT QUANTITY AND TYPE MAY VARY.



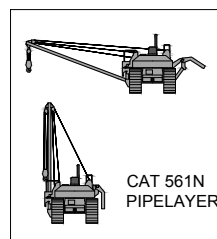
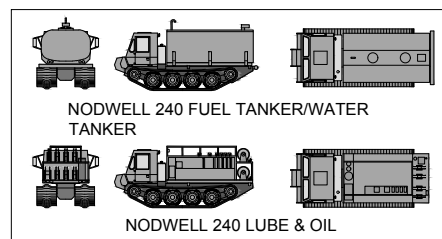
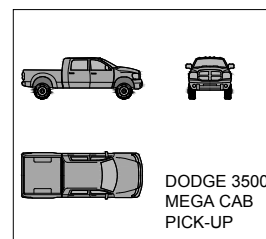
	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYRWS-08.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		RIGHT OF WAY PLAN SUMMER PERMAFROST R.O.W. MODE	
			SCALE: AS SHOWN	DATE: 9/21/2015	FIGURE NO. PA-158T	FILE NO. POA-1995-120

PRELIMINARY
NOT FOR CONSTRUCTION!

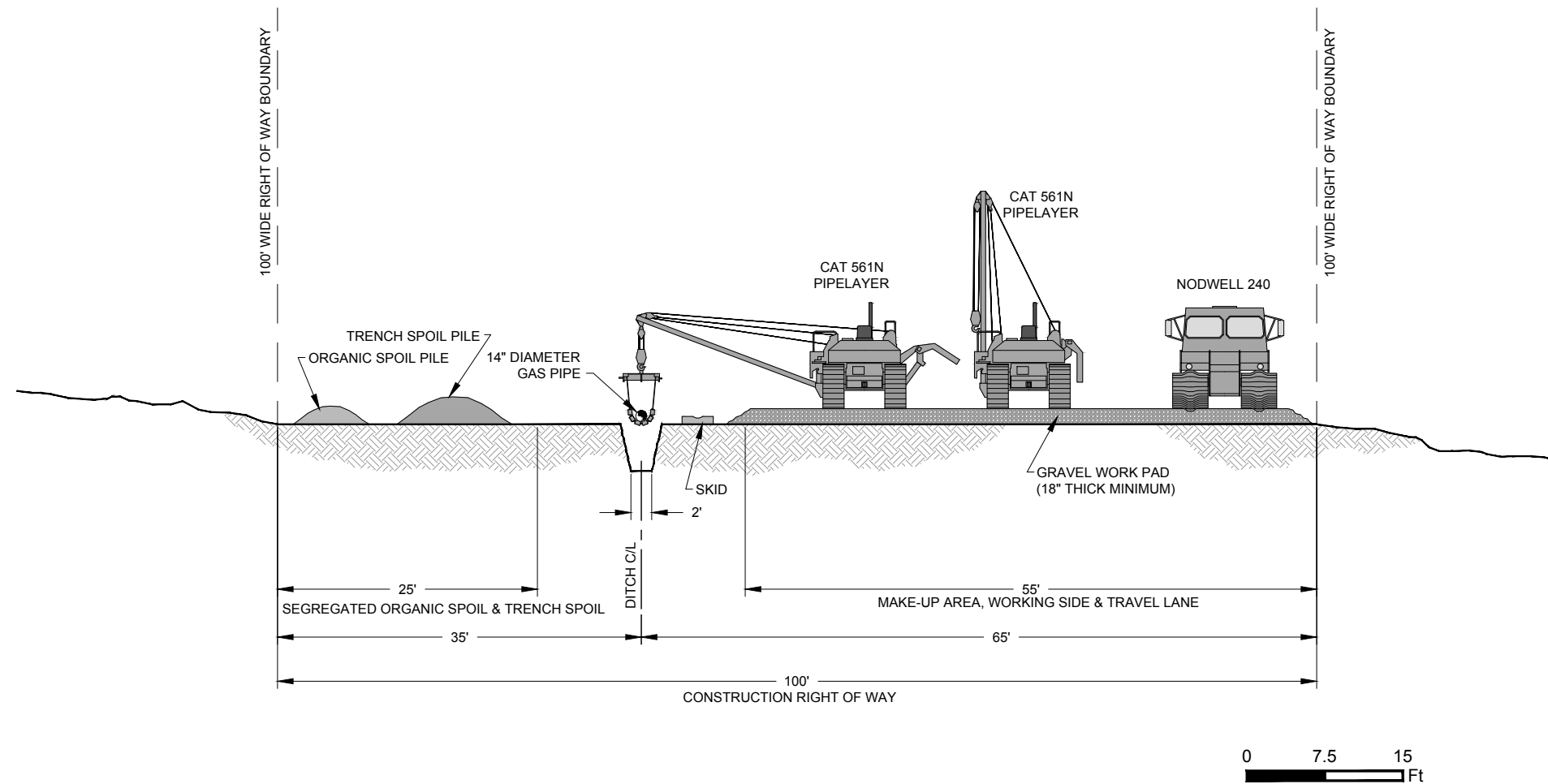


- LEGEND**
- PIPELINE/TRENCH CENTERLINE
 - CONSTRUCTION R.O.W. BOUNDARY
 - TRENCH SPOIL PILE
 - ORGANIC SPOIL PILE
 - BOTTOM OF OPEN PIPELINE TRENCH
 - SIDESLOPES OF OPEN TRENCH

NOTES:
1. EQUIPMENT QUANTITY AND TYPE MAY VARY.



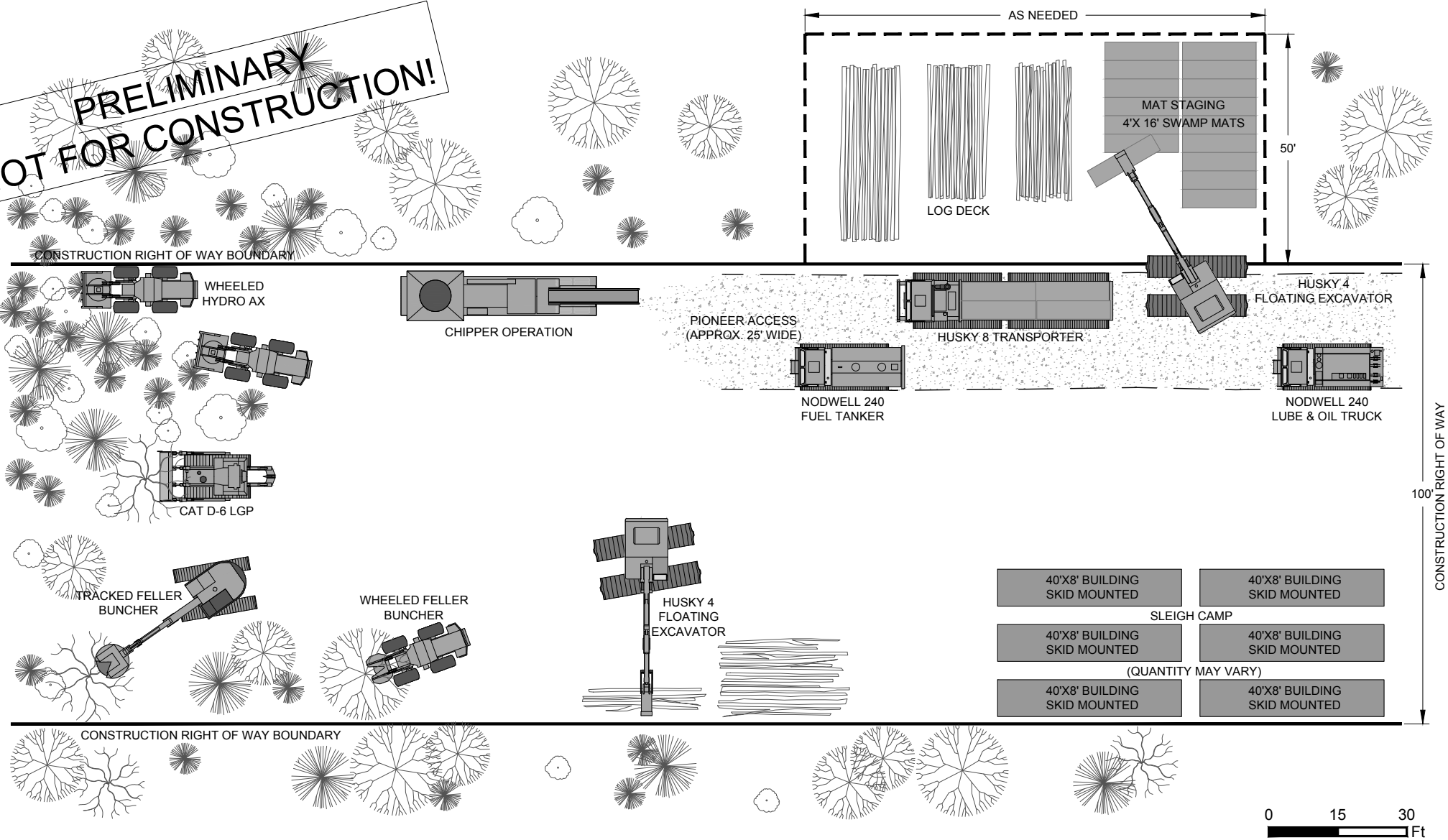
Associated Engineering Drawings P01C-TYRWS-12.DWG (BAKER) OCT 2013	DONLIN GOLD PROJECT APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		DRAWING TITLE: RIGHT OF WAY PLAN SUMMER PERMAFROST R.O.W. MODE	
	SCALE: AS SHOWN		FIGURE NO.: PA-159T	FILE NO.: POA-1995-120
	DATE: 9/21/2015			



**PRELIMINARY
NOT FOR CONSTRUCTION!**

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYRWS-14.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		CROSS SECTION SUMMER PERMAFROST R.O.W. MODE	
			SCALE: AS SHOWN	DATE: 9/21/2015	FIGURE NO. PA-160T	FILE NO. POA-1995-120

PRELIMINARY
NOT FOR CONSTRUCTION!

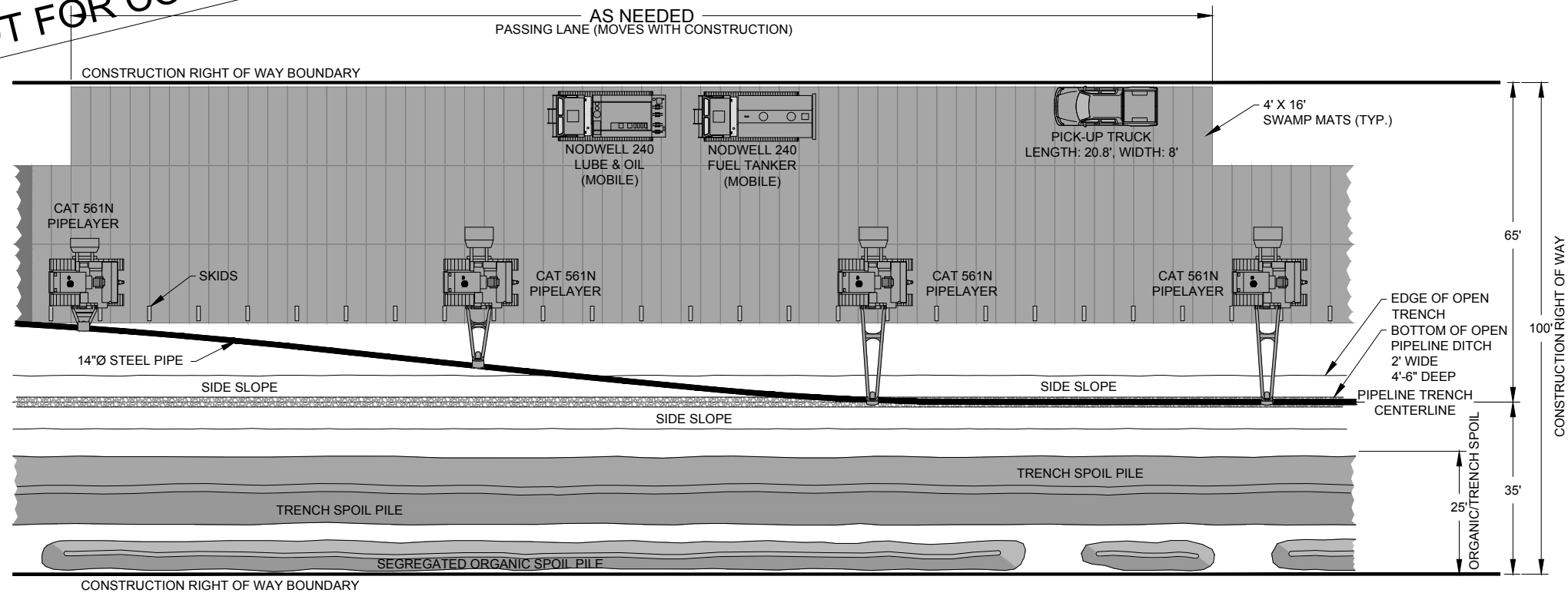


NOTES:
1. EQUIPMENT QUANTITY AND TYPE MAY VARY.

LEGEND
—— CONSTRUCTION RIGHT OF WAY BOUNDARY
- - - - TEMPORARY USE AREA

 WHEELED FELLER BUNCHER	 HUSKY 4 HIGH FLOATION EXCAVATOR	 CAT D-6 LGP	 NODWELL 240 FUEL TANKER	 HUSKY 8 TRANSPORTER
 WHEELED HYDRO AX	 TRACKED FELLER BUNCHER		 NODWELL 240 LUBE & OIL	

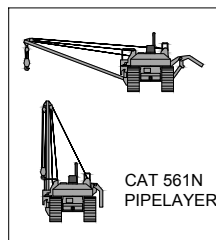
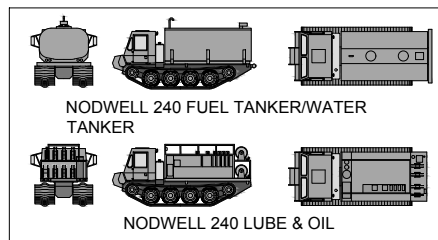
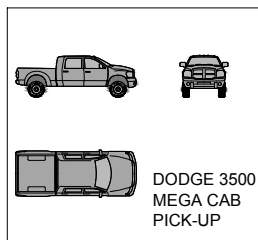
PRELIMINARY
NOT FOR CONSTRUCTION!



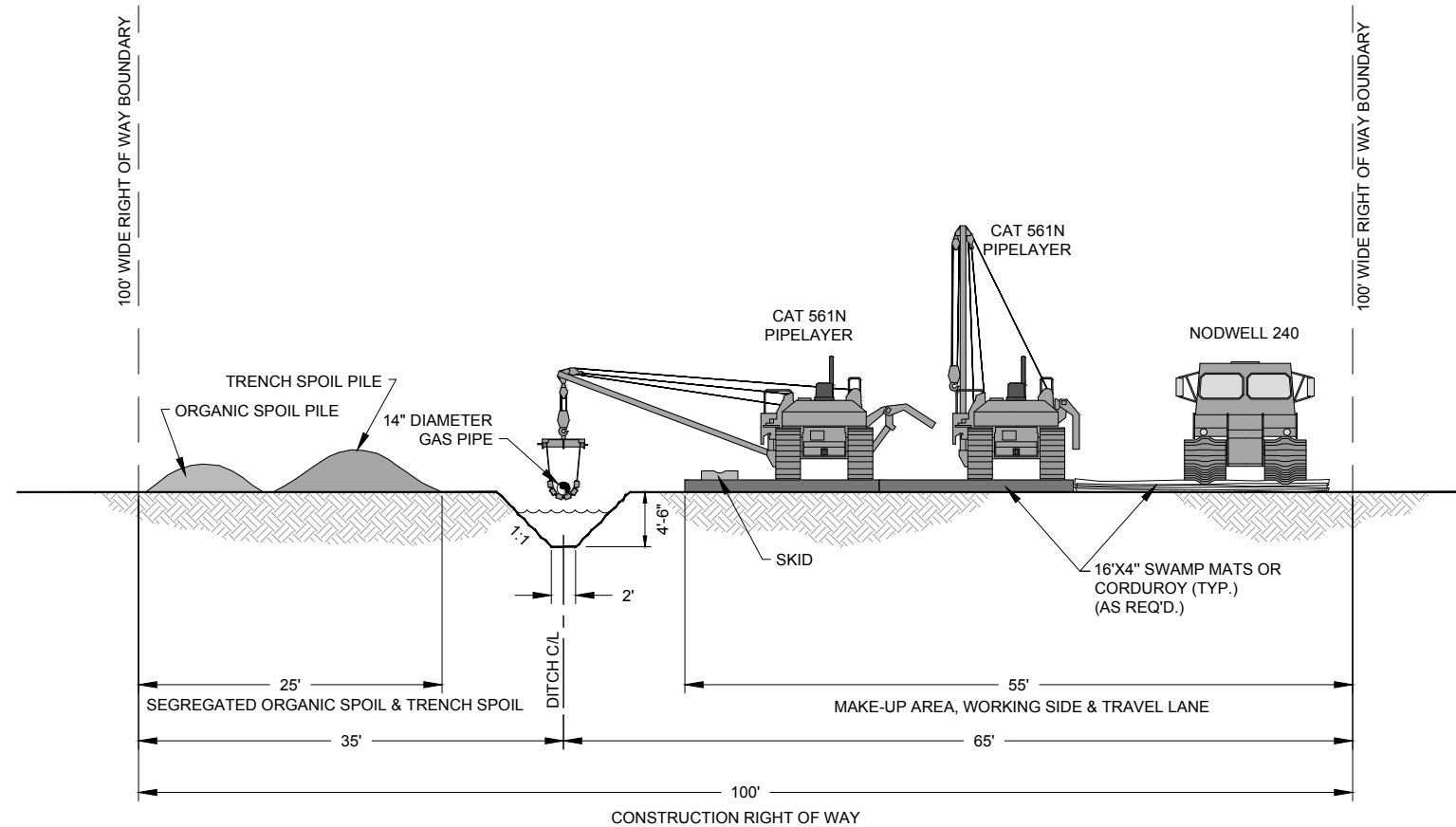
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Ft

- LEGEND**
- PIPELINE/TRENCH CENTERLINE
 - CONSTRUCTION R.O.W. BOUNDARY
 - TRENCH SPOIL PILE
 - ORGANIC SPOIL PILE
 - BOTTOM OF OPEN PIPELINE TRENCH
 - SIDESLOPES OF OPEN TRENCH

- NOTES:**
- MATS OR CORDUROY TIMBER AS NEEDED.
 - EQUIPMENT QUANTITY AND TYPE MAY VARY.



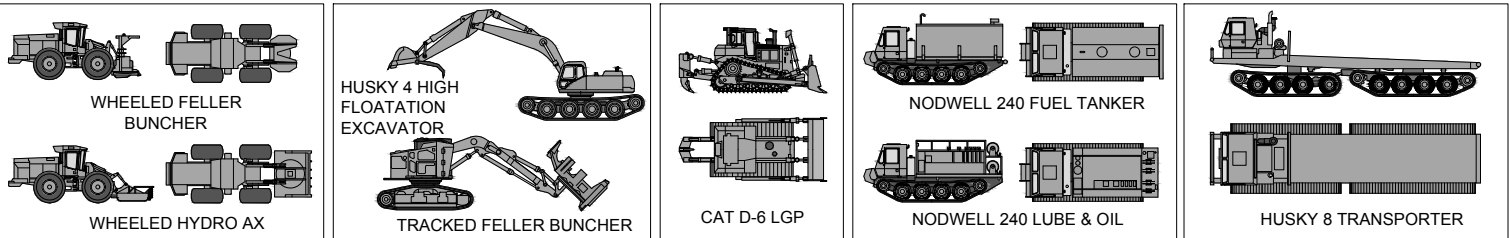
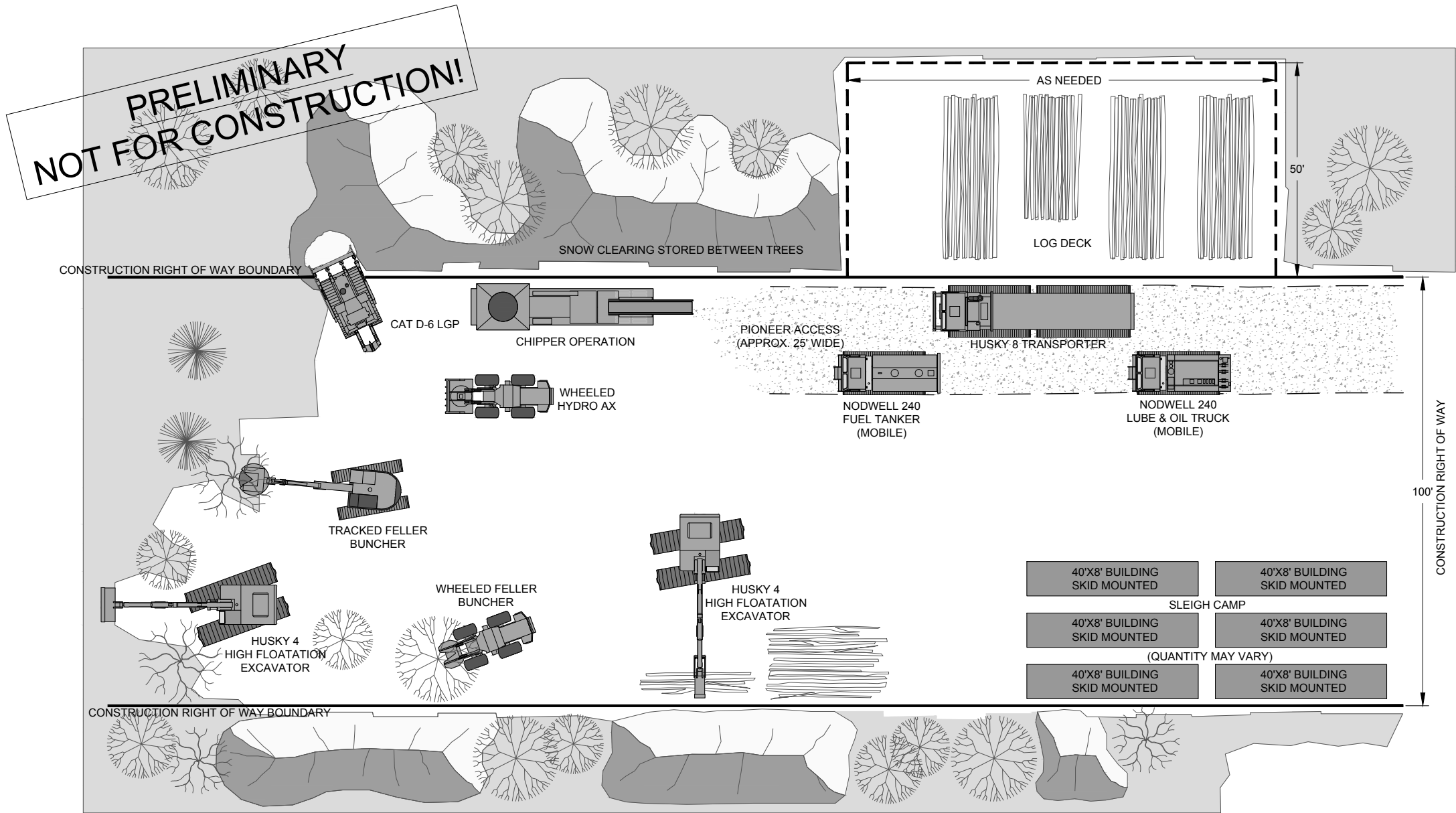
Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
P01C-TYRWS-19.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		RIGHT OF WAY PLAN SUMMER WETLANDS R.O.W. MODE	
SCALE: AS SHOWN		DATE: 9/21/2015		FIGURE NO. PA-162T	FILE NO. POA-1995-120



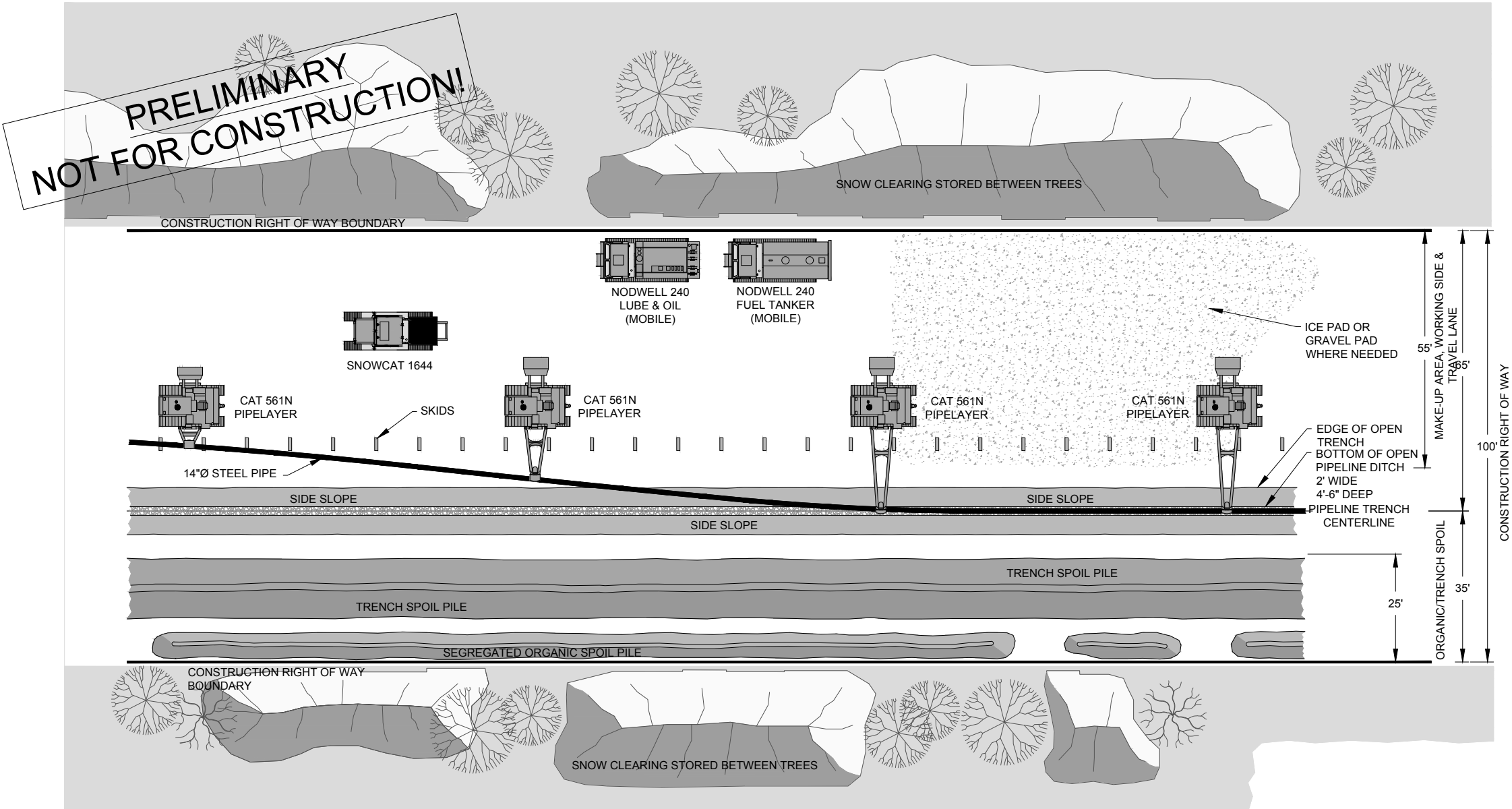
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**PRELIMINARY
NOT FOR CONSTRUCTION!**

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
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	SCALE: AS SHOWN		DATE: 9/21/2015		FIGURE NO. PA-163T	FILE NO. POA-1995-120

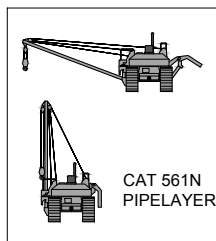
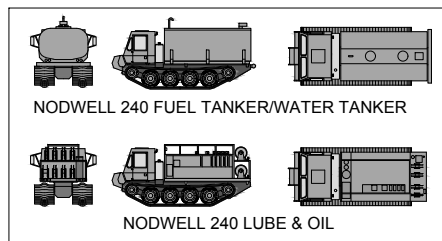
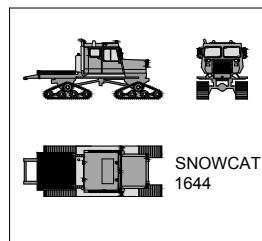


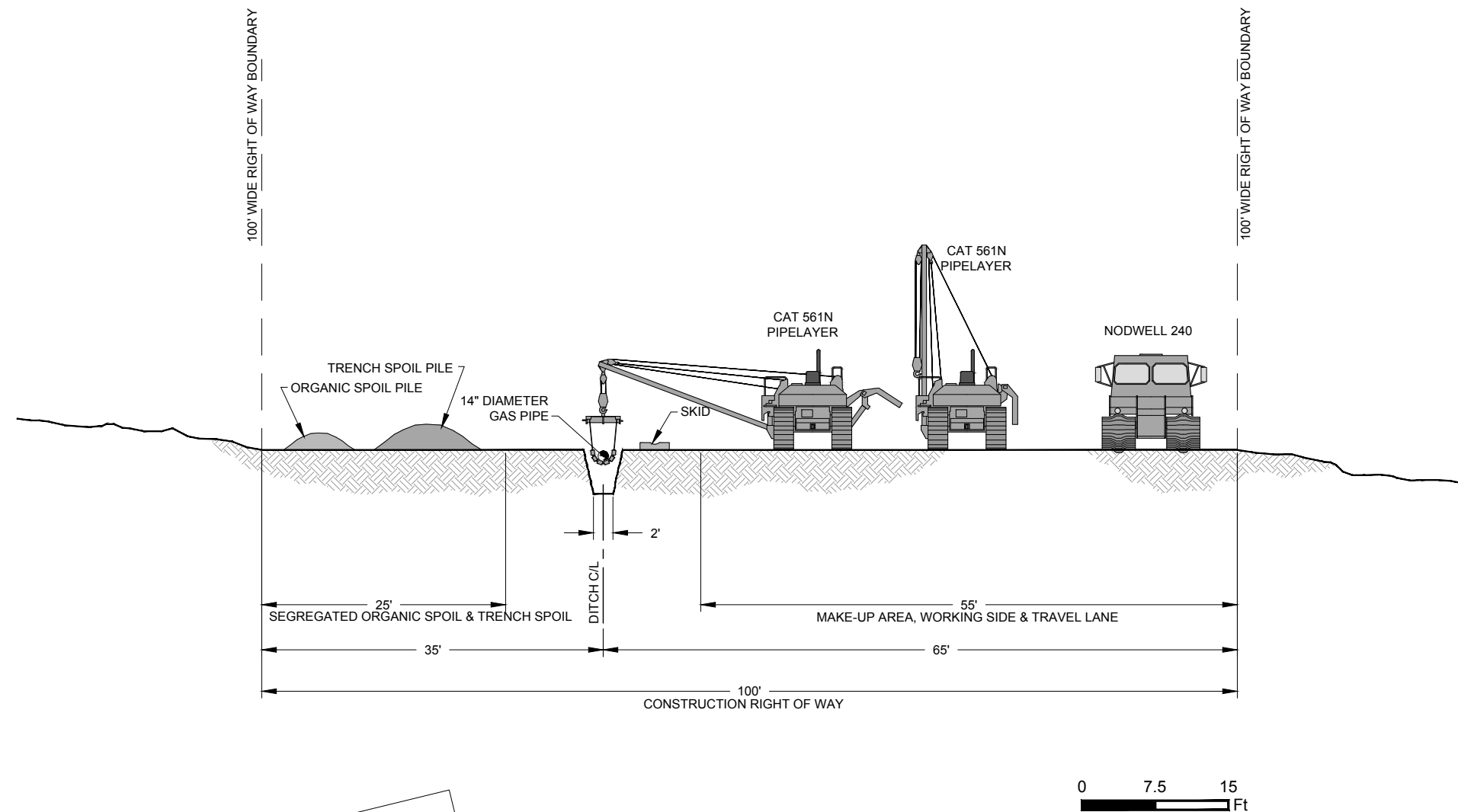
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	SCALE: AS SHOWN		DATE: 9/22/2015		FIGURE NO. PA-164T	FILE NO. POA-1995-120



- LEGEND**
- PIPELINE/TRENCH CENTERLINE
 - CONSTRUCTION R.O.W. BOUNDARY
 - TRENCH SPOIL PILE
 - ORGANIC SPOIL PILE
 - BOTTOM OF OPEN PIPELINE TRENCH
 - SIDESLOPES OF OPEN TRENCH

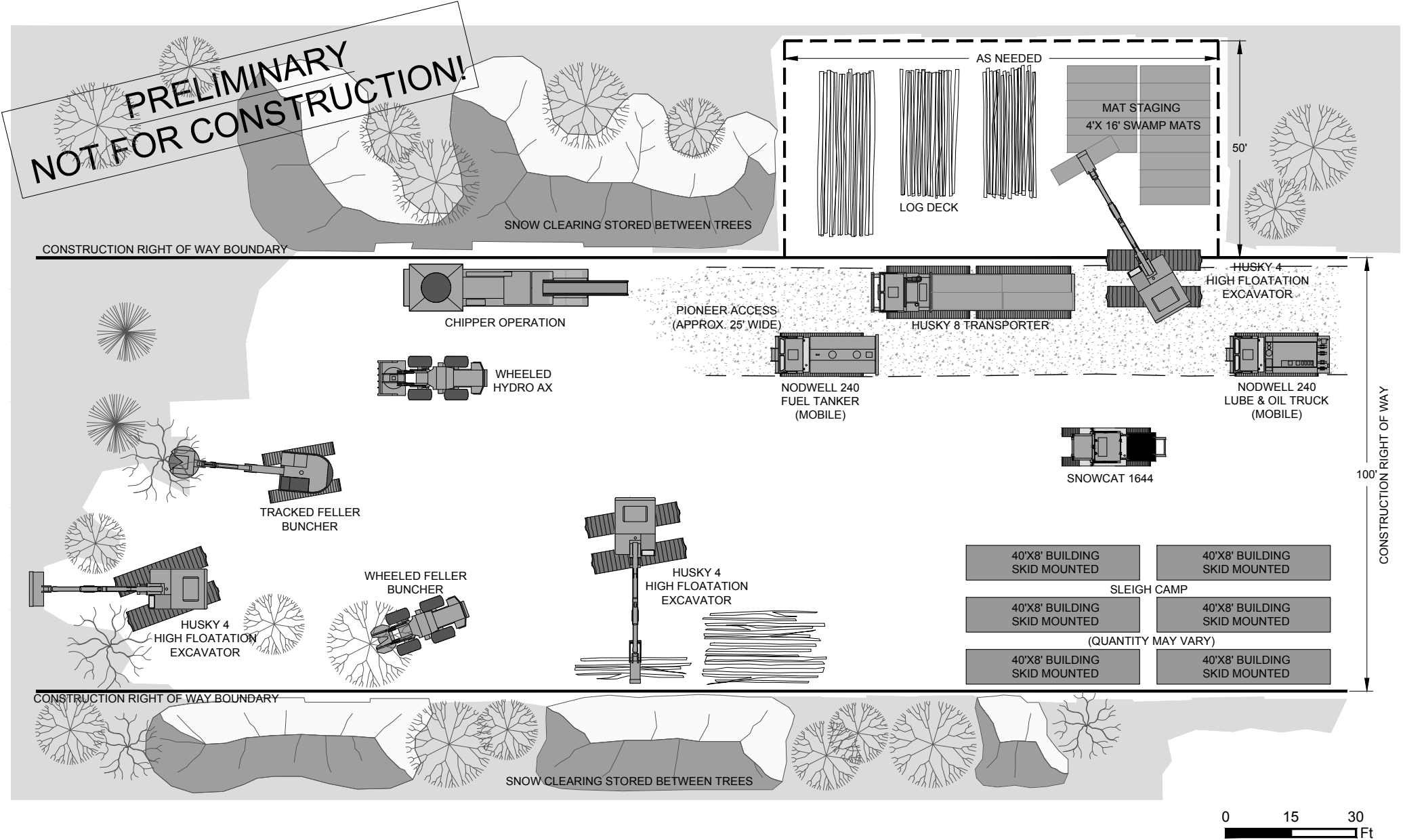
NOTES:
1. EQUIPMENT QUANTITY AND TYPE MAY VARY.





**PRELIMINARY
NOT FOR CONSTRUCTION!**

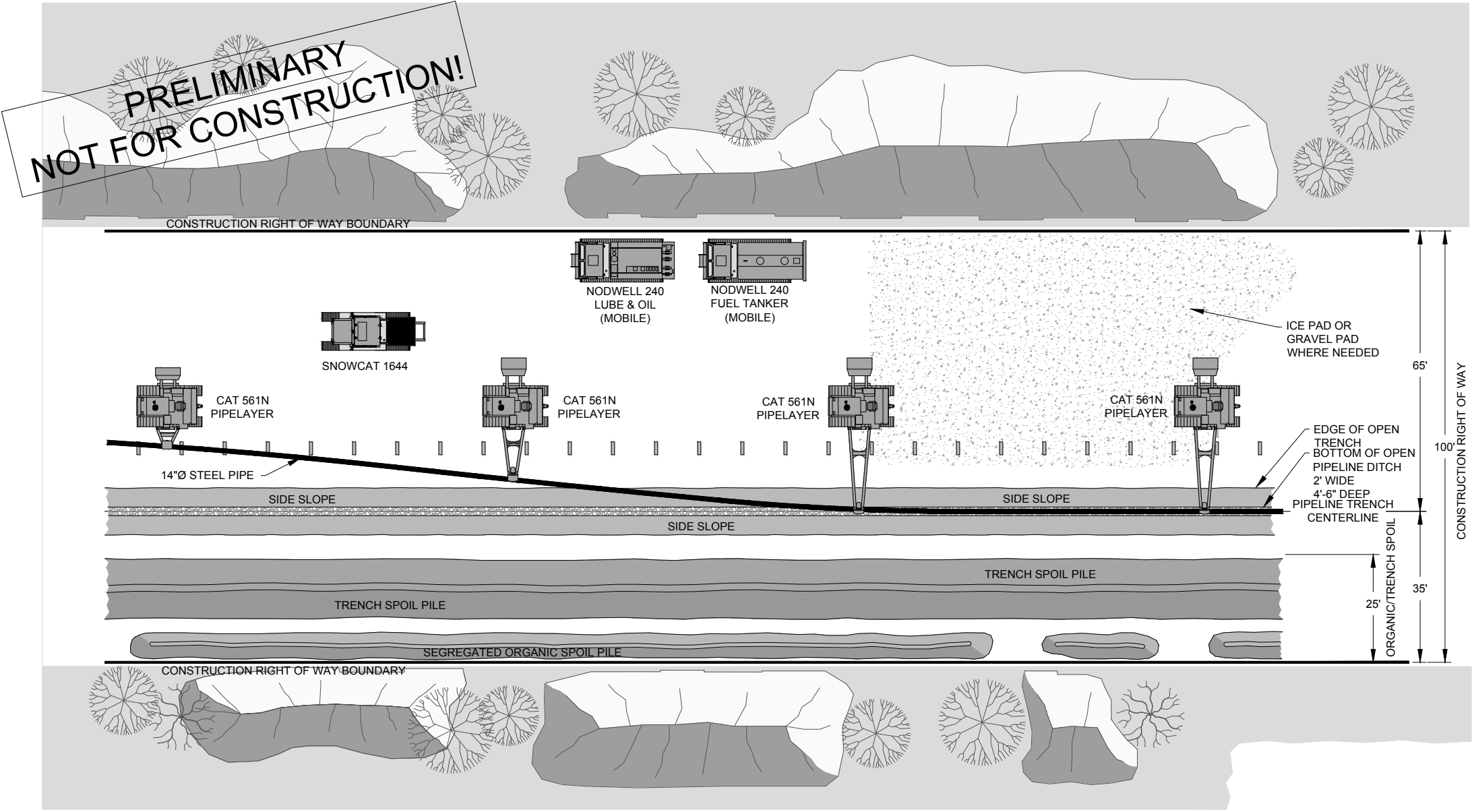
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	SCALE: AS SHOWN		DATE: 9/22/2015		FIGURE NO. PA-166T	FILE NO. POA-1995-120



LEGEND
———— PERMANENT RIGHT OF WAY BOUNDARY
- - - - - TEMPORARY USE AREA

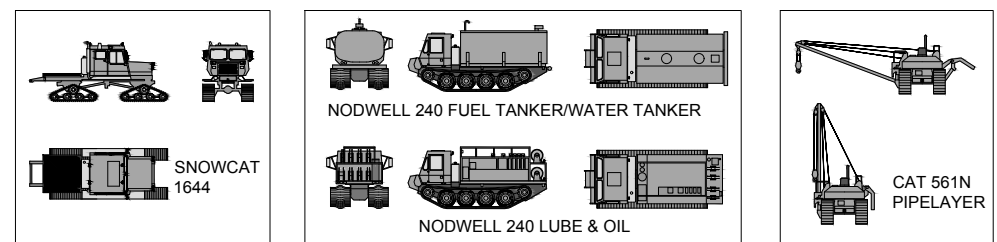
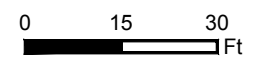
NOTES:
1. EQUIPMENT QUANTITY AND TYPE MAY VARY.

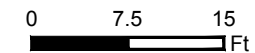
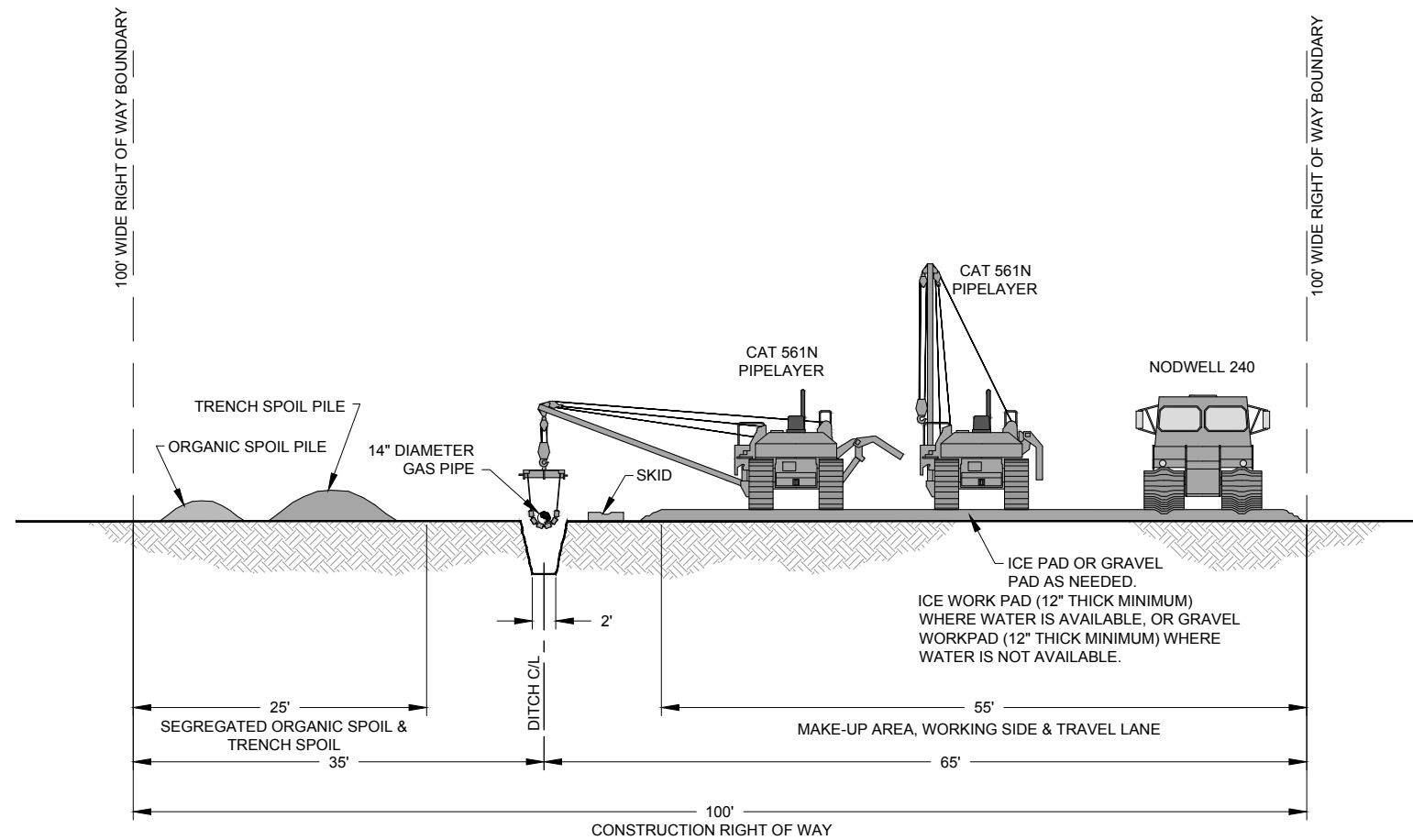
 WHEELED FELLER BUNCHER	 HUSKY 4 HIGH FLOATATION EXCAVATOR	 CAT D-6 LGP	 NODWELL 240 FUEL TANKER	 HUSKY 8 TRANSPORTER
 WHEELED HYDRO AX	 TRACKED FELLER BUNCHER		 NODWELL 240 LUBE & OIL	



- LEGEND**
- PIPELINE/TRENCH CENTERLINE
 - CONSTRUCTION R.O.W. BOUNDARY
 - TRENCH SPOIL PILE
 - ORGANIC SPOIL PILE
 - BOTTOM OF OPEN PIPELINE TRENCH
 - SIDESLOPES OF OPEN TRENCH

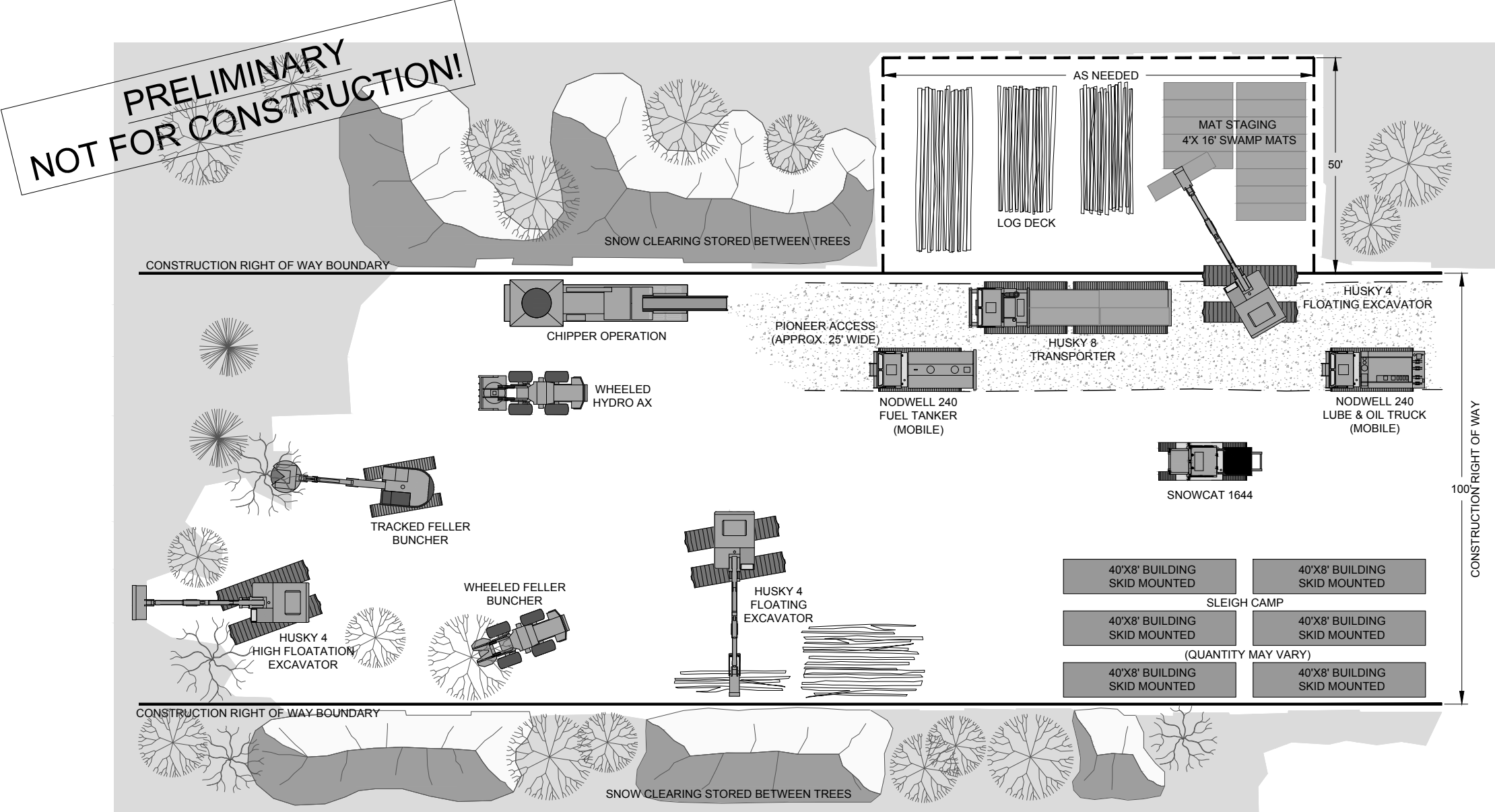
NOTES:
1. MATS OR CORDUROY TIMBER AS NEEDED.
2. EQUIPMENT QUANTITY AND TYPE MAY VARY.





**PRELIMINARY
NOT FOR CONSTRUCTION!**

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYRWW-16.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		CROSS SECTION WINTER PERMAFROST R.O.W. MODE	
			SCALE: AS SHOWN	DATE: 9/22/2015	FIGURE NO. PA-169T	FILE NO. POA-1995-120

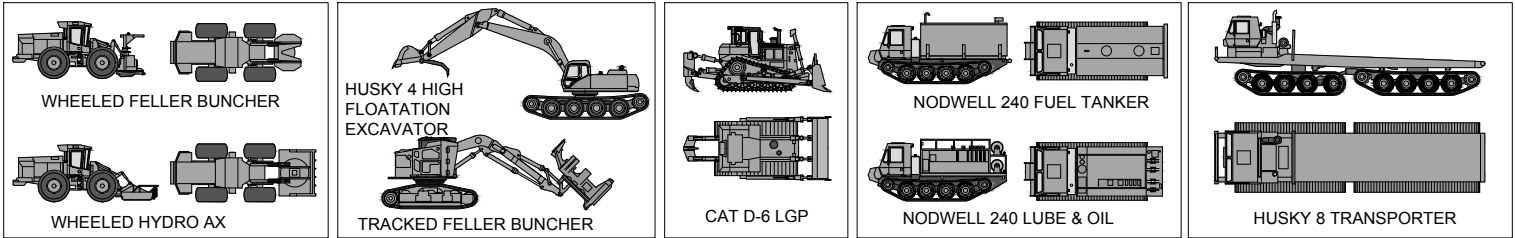


NOTES:
1. EQUIPMENT QUANTITY AND TYPE MAY VARY.

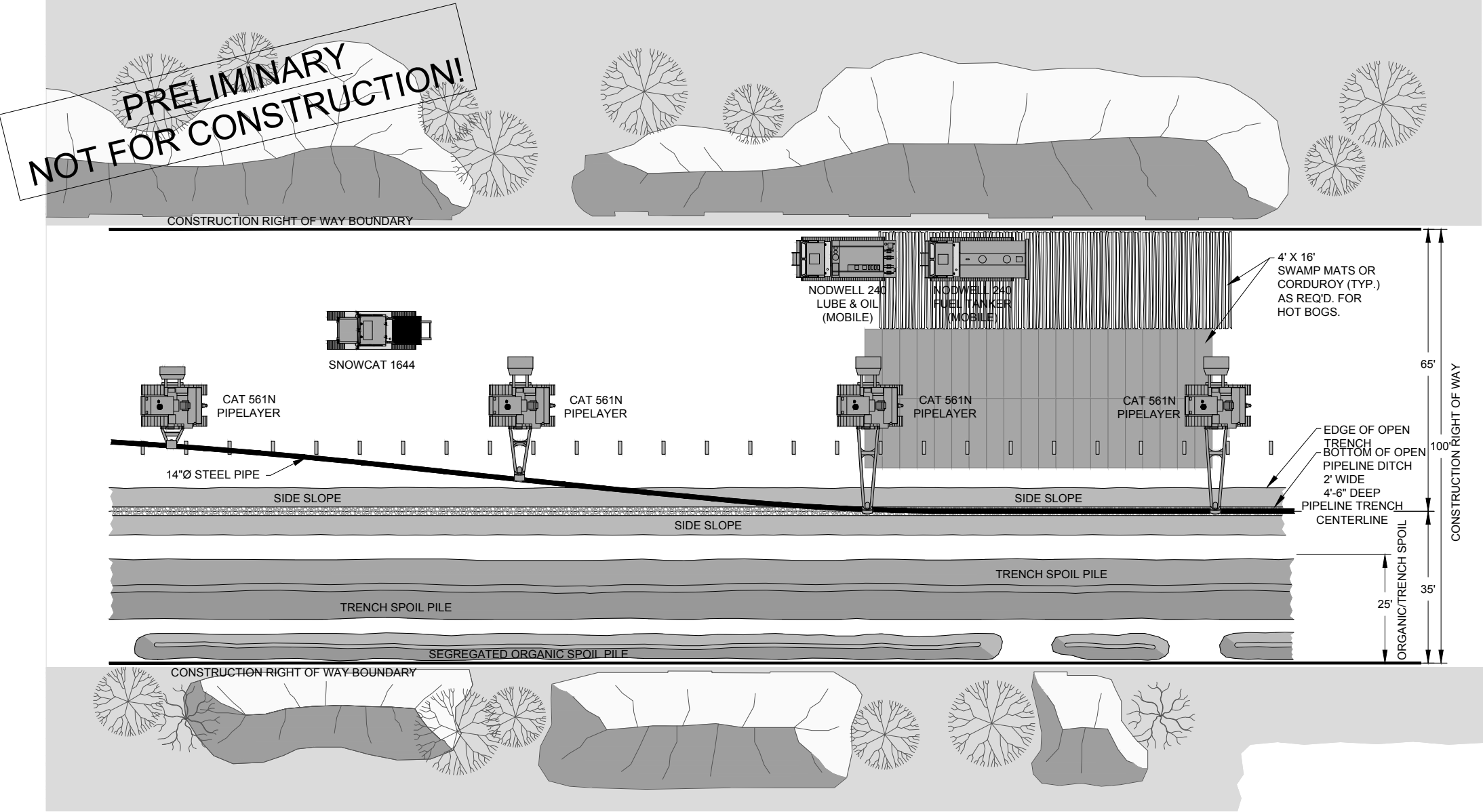
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LEGEND

———— PERMANENT RIGHT OF WAY BOUNDARY
- - - - - TEMPORARY USE AREA

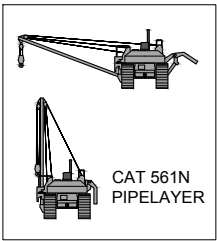
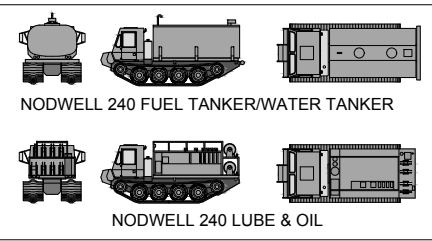
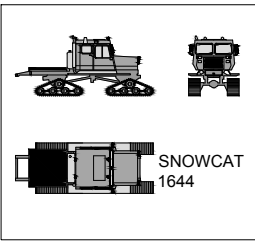


	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	P01C-TYRWW-17.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		RIGHT OF WAY PLAN WINTER WETLANDS R.O.W. MODE	
			SCALE: AS SHOWN	DATE: 9/22/2015	FIGURE NO. PA-170T	FILE NO. POA-1995-120

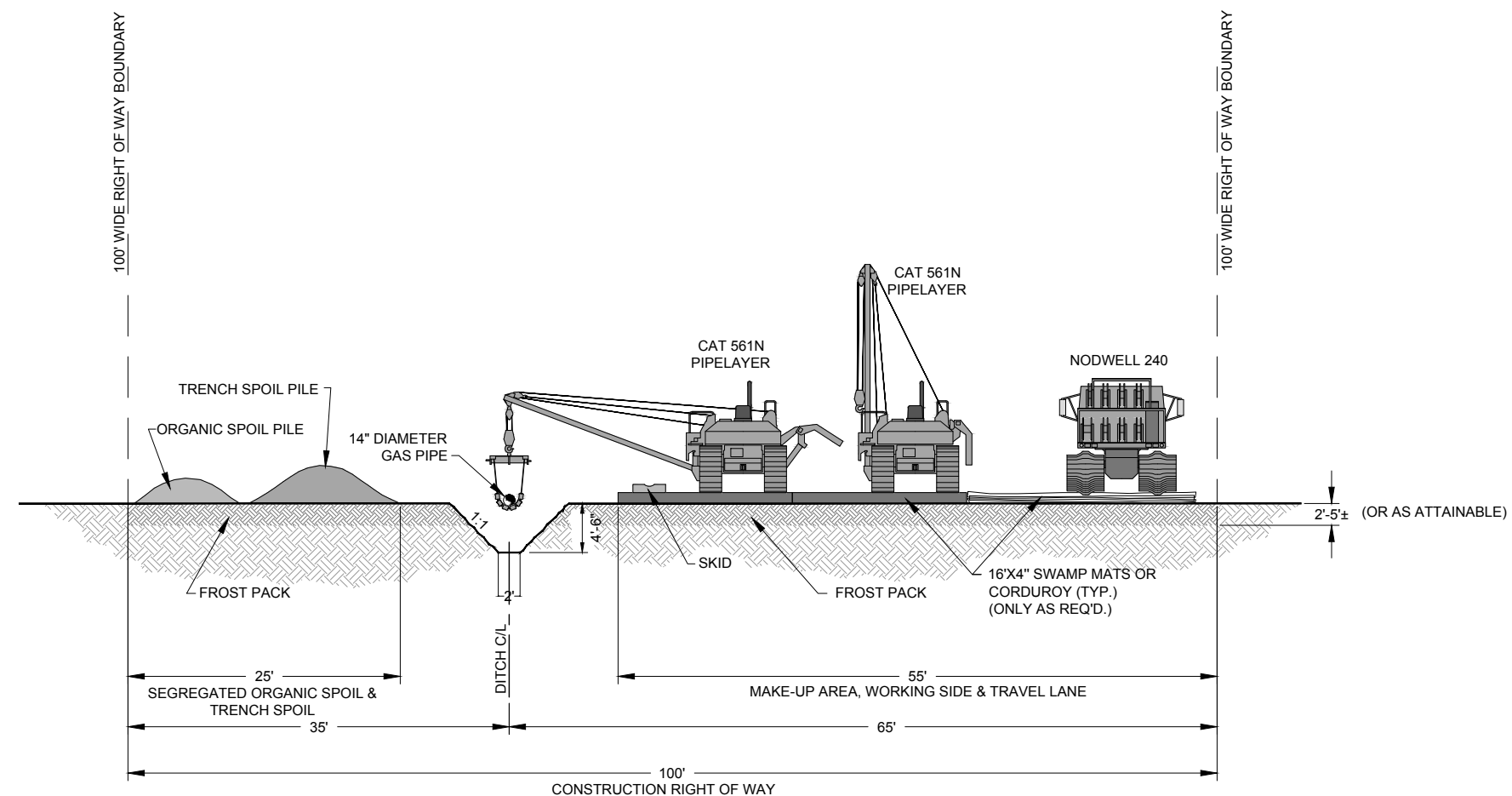


- LEGEND**
- PIPELINE/TRENCH CENTERLINE
 - CONSTRUCTION R.O.W. BOUNDARY
 - TRENCH SPOIL PILE
 - ORGANIC SPOIL PILE
 - BOTTOM OF OPEN PIPELINE TRENCH
 - SIDESLOPES OF OPEN TRENCH

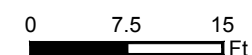
- NOTES:**
- MATS OR CORDUROY TIMBER AS NEEDED.
 - EQUIPMENT QUANTITY AND TYPE MAY VARY.



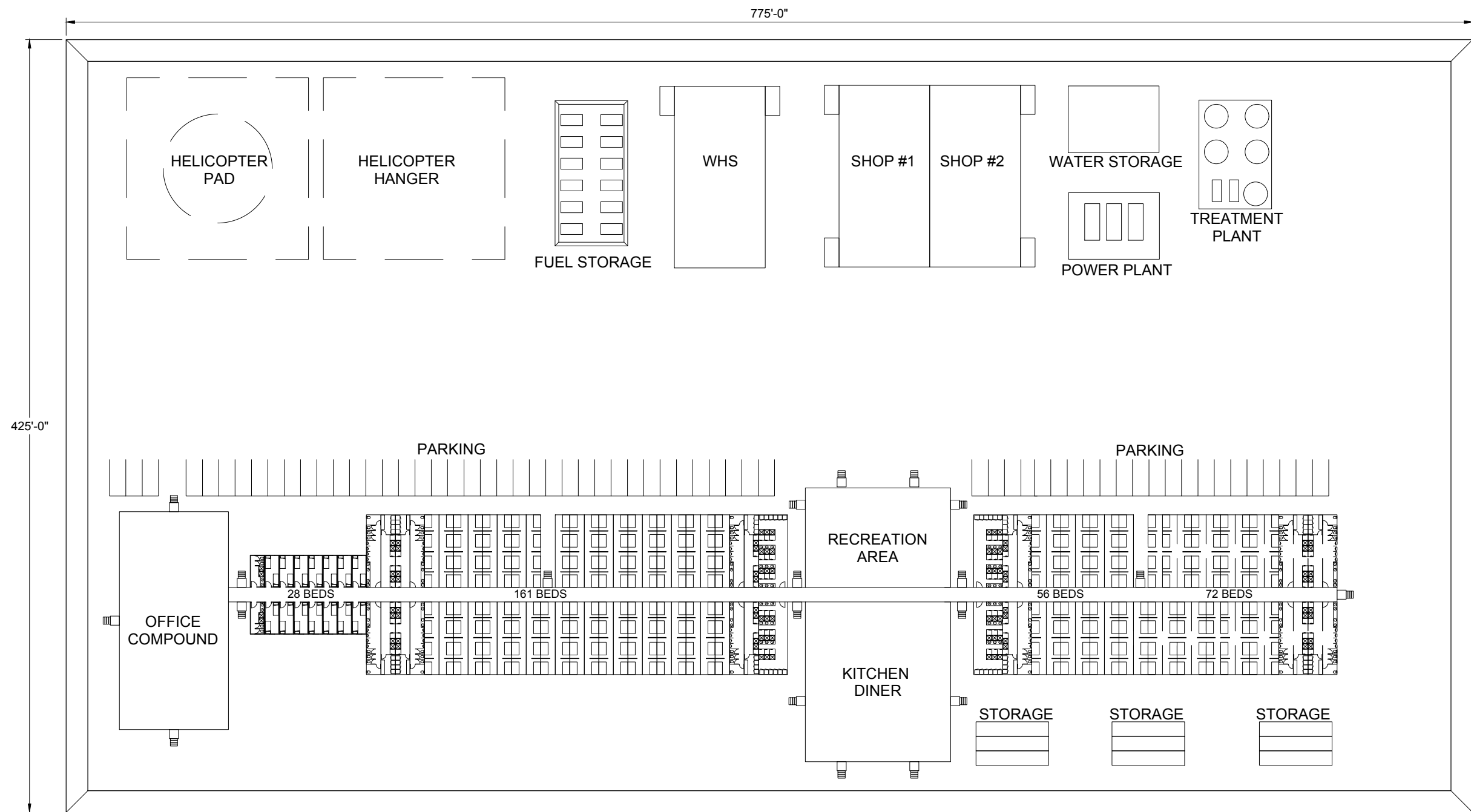
Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
P01C-TYRWW-22.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		RIGHT OF WAY PLAN WINTER WETLANDS R.O.W. MODE	
SCALE: AS SHOWN		DATE: 9/22/2015		FIGURE NO. PA-171T	FILE NO. POA-1995-120



**PRELIMINARY
NOT FOR CONSTRUCTION!**



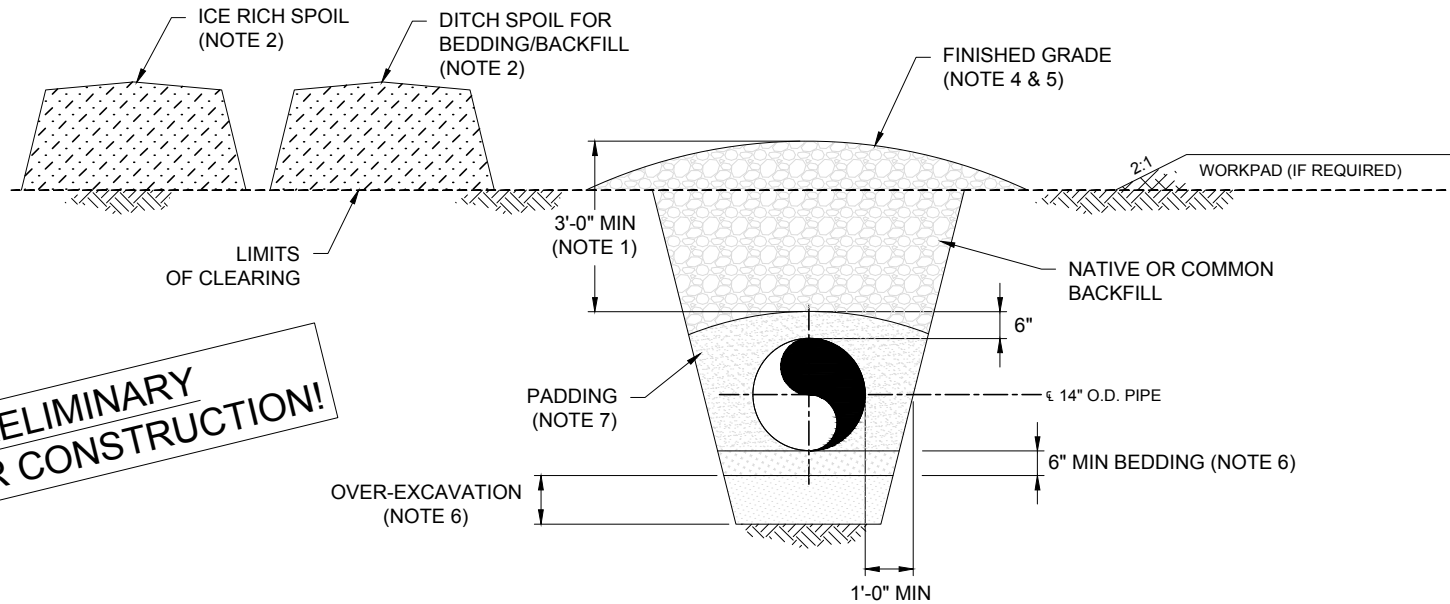
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	P01C-TYRWW-24.DWG (BAKER) OCT 2013		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		CROSS SECTION WINTER WETLANDS R.O.W. MODE	
	SCALE: AS SHOWN		DATE: 9/22/2015		FIGURE NO. PA-172T	FILE NO. POA-1995-120



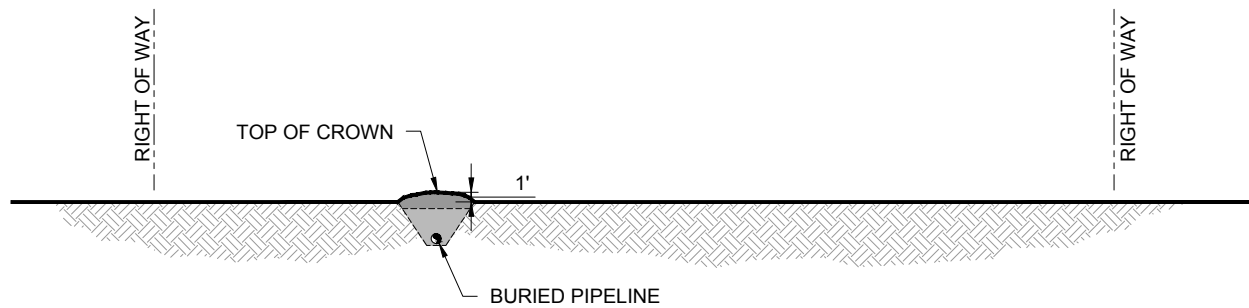
TYPICAL CAMP PLOT PLAN 200 TO 300 MAN CAMP
N.T.S.

	Associated Engineering Drawings		DONLIN GOLD PROJECT		DRAWING TITLE:	
	Camp 1.dwg (?) MAR 2012		APPLICANT: Donlin Gold, LLC 4720 Business Park Blvd., Suite G-25 Anchorage, Alaska 99503		TYPICAL CAMP PLOT PLAN 200 TO 300 MAN CAMP DETAIL	
			SCALE: AS SHOWN	DATE: 9/23/2015	FIGURE NO. PA-173T	FILE NO. POA-1995-120

PRELIMINARY
NOT FOR CONSTRUCTION!



A
174T
TYPICAL PIPE TRENCH SECTION
N.T.S.



B
174T
TYPICAL RECLAIMED TRENCH SECTION
N.T.S.

NOTES:

1. MINIMUM DEPTH OF COVER: 36". ADDITIONAL COVER MAY BE REQUIRED FOR BUOYANCY CONTROL. RIVER AND STREAM SCOUR, AND BENDS.
2. EXCAVATION:
LOG THE TRENCH MATERIAL AS IT IS DUG. SEGREGATE ICE RICH MATERIAL IN A SPOIL PILE SEPARATE FROM DITCH SPOIL WHICH IS ACCEPTABLE FOR BACKFILL. IN EXTREME CASES OF ICE CONTENT, IT MAY BE NECESSARY TO HAUL IN ADDITIONAL SELECT MATERIAL AND/OR TO HAUL THE ICE RICH SPOIL TO AN APPROVED DISPOSAL SITE, SUCH AS AN ABANDONED MATERIAL SITE, COULD BE CONSIDERED.
3. PRIOR TO FINAL DESIGN:
GEOTECHNICAL LOGGING OF BORE HOLES TO DETERMINE ICE CONTENT IN THE DITCH PROFILE AND BELOW THE DITCH BOTTOM FOR AN ADDITIONAL 10' OR WHATEVER DEPTH WAS DETERMINED TO AFFECT PIPELINE SETTLEMENT IN THE EVENT OF THAWING BELOW THE PIPELINE.
4. PLACE AND ROACH THE REMAINING DITCH SPOIL. INCLUDING THE ICE RICH SPOIL, OVER TOP OF THE PADDING AND ALLOW IT TO THAW DURING SUMMER SEASON.
5. PLACE APPROPRIATE EROSION CONTROL DEVICES (ECDs) ALONG THE ROACH DITCH LINE WHERE ICE RICH SPOIL MIGHT FLOW INTO AN EXISTING DRAINAGE WHEN IT MELTS. SEED THE ROACHED SPOIL PILE AND ANY DISTURBED RIGHT OF WAY. INSPECT THE DITCH LINE IN THE SUMMER/FALL FOLLOWING WINTER CONSTRUCTION AND USE LOW GROUND PRESSURE EQUIPMENT TO DRESS UP OR RE-SHAPE THE ROACHED SPOIL OVER THE DITCH AS NEEDED. RE-SEED AND RE-PLACE ECDs IF NECESSARY. REPEAT INSPECTION ANNUALLY FOR THE FIRST THREE SEASONS OR AS NEEDED TO MAINTAIN SOIL STABILITY.
6. PLACEMENT OF SELECT, THAW STABLE FILL FOR PIPE BEDDING IN ANY OVER-EXCAVATED SECTIONS TO PROPERLY SUPPORT AND BED THE PIPE.
7. PLACEMENT OF SELECT, THAW STABLE PADDING AROUND THE PIPE TO 6" ABOVE THE PIPE. ACCEPTABLE DITCH SPOIL WOULD BE PREFERRED. IMPORTED MATERIAL MIGHT BE NEEDED IF DITCH SPOIL IS NOT ACCEPTABLE.
8. OVER-EXCAVATE 3 FEET BELOW TARGET DITCH DEPTH WHERE VISIBLE SEGREGATED ICE (FROZEN GROUND CLASSIFICATION Vx) IS DISCOVERED IN THE DITCH BOTTOM. BACKFILL OVER-EXCAVATION WITH THAW-STABLE BEDDING. PLACE GEOGRID, IF SO DIRECTED BY THE ENGINEER, TO SPAN AREAS OF OVER-EXCAVATION.

Associated Engineering Drawings

P01C-SCIS-01.dwg (BAKER) OCT 2013

DONLIN GOLD PROJECT

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

DRAWING TITLE:

TYPICAL PIPE TRENCH DETAIL

FIGURE NO.

PA-174T

FILE NO.

POA-1995-120

SCALE: AS SHOWN

DATE: 9/30/2015