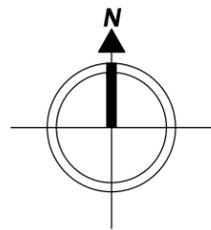
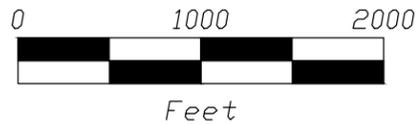


Juneau, Alaska - Lemon Creek Industrial District



END ROAD STA 19+58.0

CBJ
AK DNR

PROJECT AREA

BEGIN ROAD STA 10+00

LEMON CREEK

Lemon Creek
Correctional Center

NORTH LEMON
CREEK MATERIAL
SOURCE BRIDGE

RAP Stockpiles

South Lemon Creek
Material Source

ANKA STREET

ANKA STREET

Bent Ct

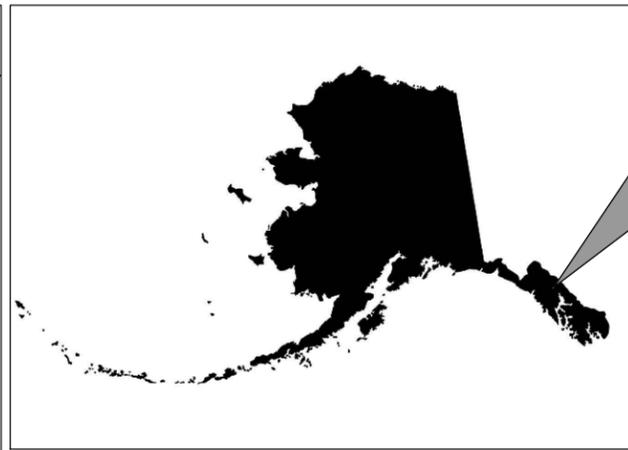
Costco

Home Depot

Commercial Blvd

Charles Way

LEMON CREEK HAUL ROAD



PROJECT LOCATION
Juneau, AK

DRAWING INDEX

- SHEET 1 - PROJECT LOCATION AND DRAWING INDEX
- SHEET 2 - SITE PLAN, GRADING, AND ROAD ALIGNMENT
- SHEET 3 - ROAD PROFILE
- SHEET 4 - TYPICAL SECTIONS
- SHEET 5 - TEMPORARY ACCESS ROAD
- SHEET 6 - PIPE, ROCK FLUME, AND POND DETAIL
- SHEET 7 - GATE DETAIL
- SHEET 8 - EXISTING CONDITIONS AND SURVEY CONTROL



CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

NORTH LEMON CREEK MATERIAL SOURCE
ROAD IMPROVEMENTS
CBJ CONTRACT BE17-110

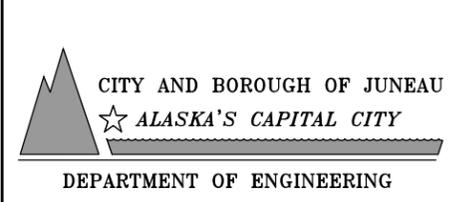
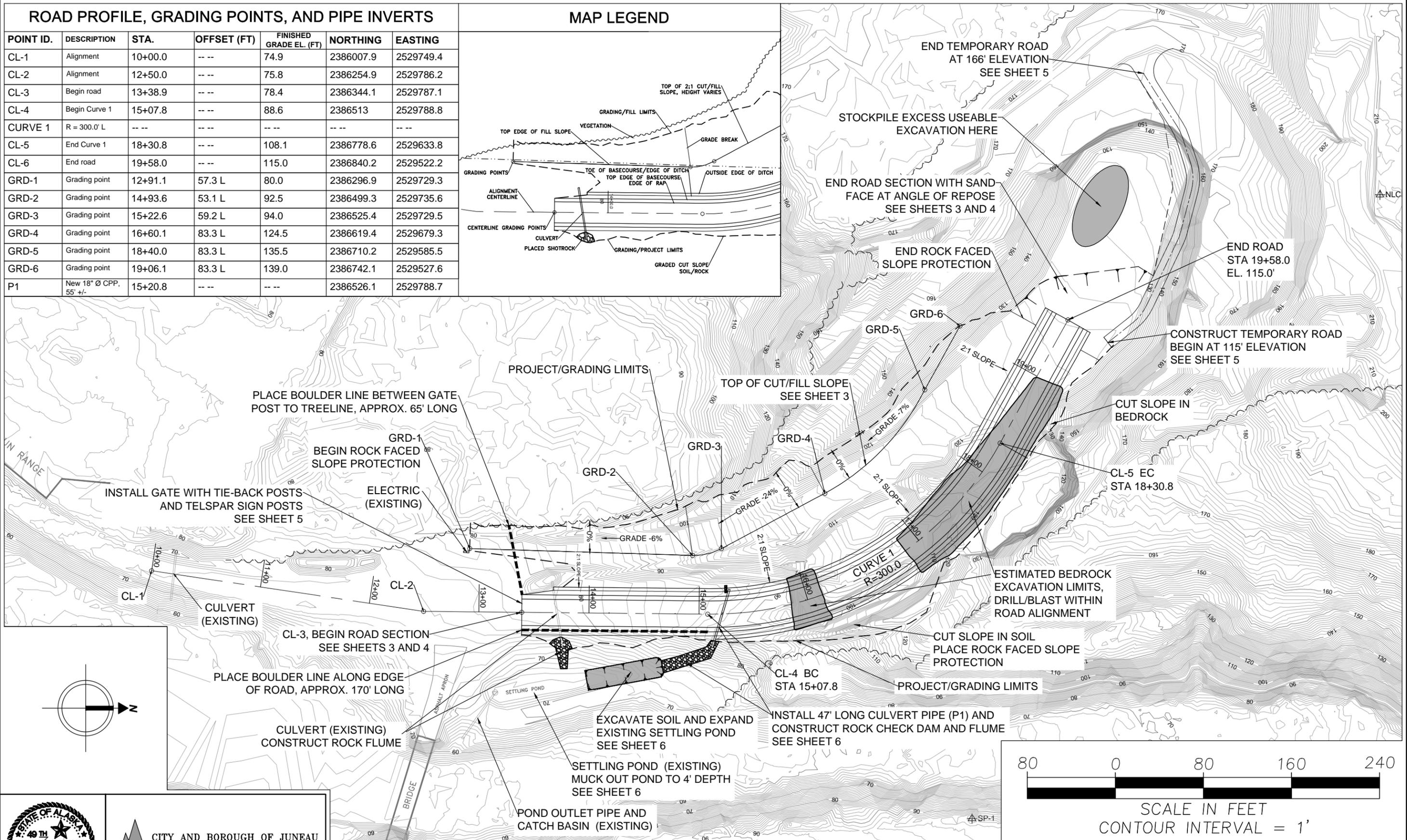
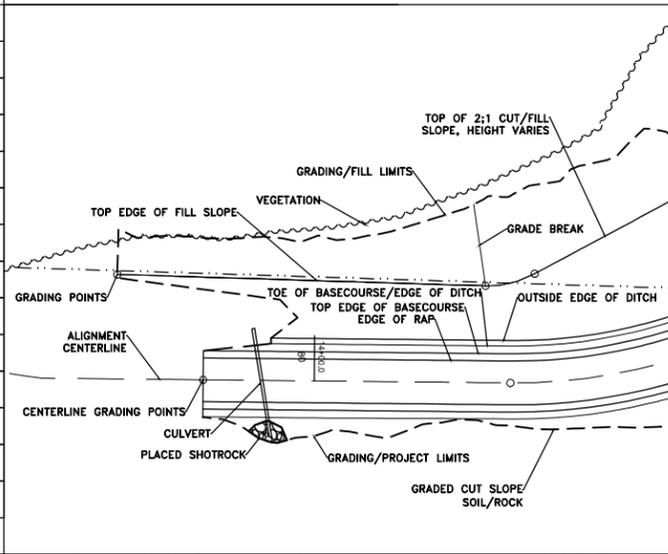
PROJECT LOCATION AND DRAWING INDEX

SHEET NO.
1 OF 8

ROAD PROFILE, GRADING POINTS, AND PIPE INVERTS

POINT ID.	DESCRIPTION	STA.	OFFSET (FT)	FINISHED GRADE EL. (FT)	NORTHING	EASTING
CL-1	Alignment	10+00.0	---	74.9	2386007.9	2529749.4
CL-2	Alignment	12+50.0	---	75.8	2386254.9	2529786.2
CL-3	Begin road	13+38.9	---	78.4	2386344.1	2529787.1
CL-4	Begin Curve 1	15+07.8	---	88.6	2386513	2529788.8
CURVE 1	R = 300.0' L	---	---	---	---	---
CL-5	End Curve 1	18+30.8	---	108.1	2386778.6	2529633.8
CL-6	End road	19+58.0	---	115.0	2386840.2	2529522.2
GRD-1	Grading point	12+91.1	57.3 L	80.0	2386296.9	2529729.3
GRD-2	Grading point	14+93.6	53.1 L	92.5	2386499.3	2529735.6
GRD-3	Grading point	15+22.6	59.2 L	94.0	2386525.4	2529729.5
GRD-4	Grading point	16+60.1	83.3 L	124.5	2386619.4	2529679.3
GRD-5	Grading point	18+40.0	83.3 L	135.5	2386710.2	2529585.5
GRD-6	Grading point	19+06.1	83.3 L	139.0	2386742.1	2529527.6
P1	New 18" Ø CPP, 55' +/-	15+20.8	---	---	2386526.1	2529788.7

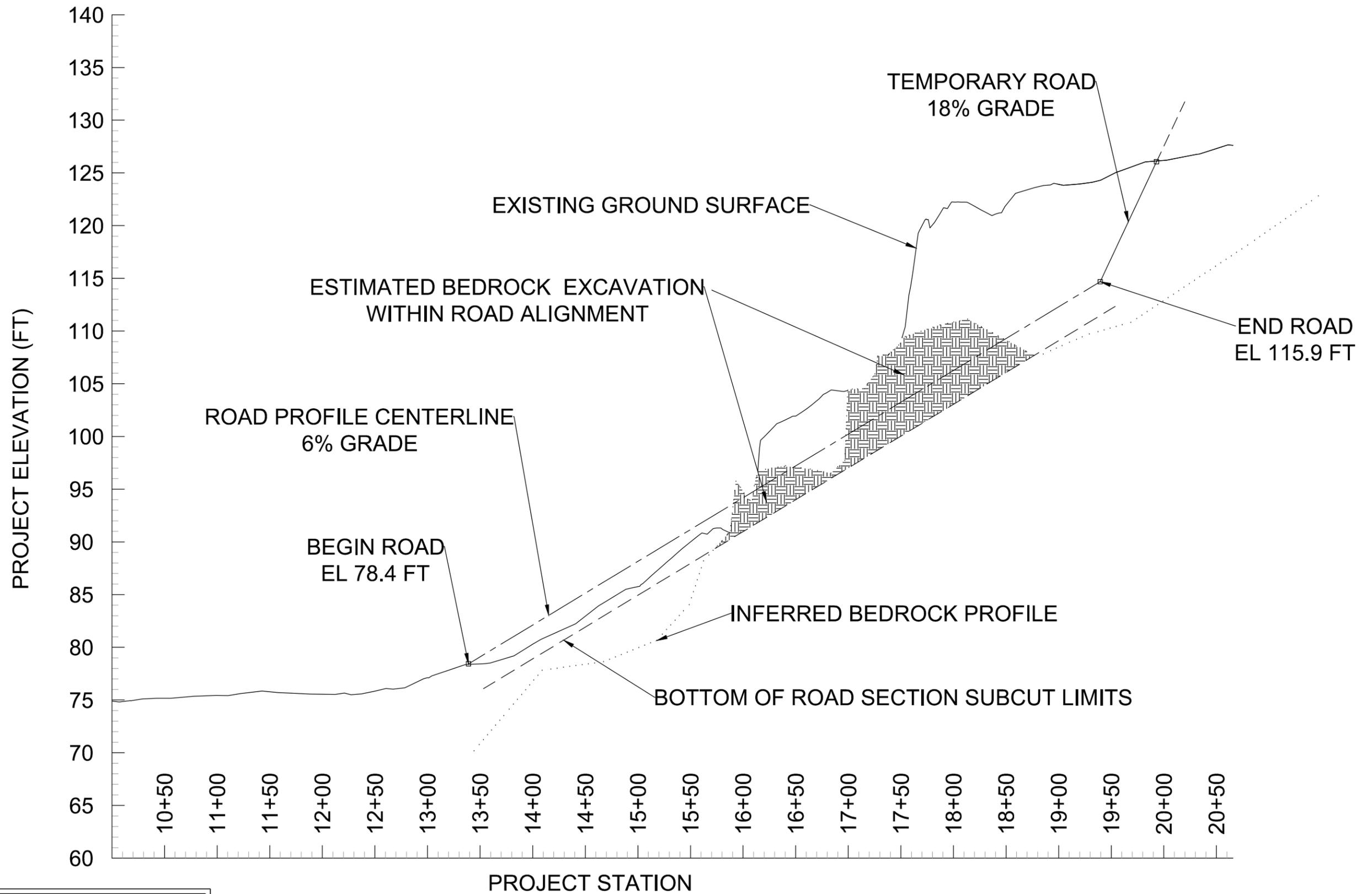
MAP LEGEND



NORTH LEMON CREEK MATERIAL SOURCE
ROAD IMPROVEMENTS
CBJ CONTRACT BE17-110

SITE PLAN, GRADING, AND ROAD
ALIGNMENT

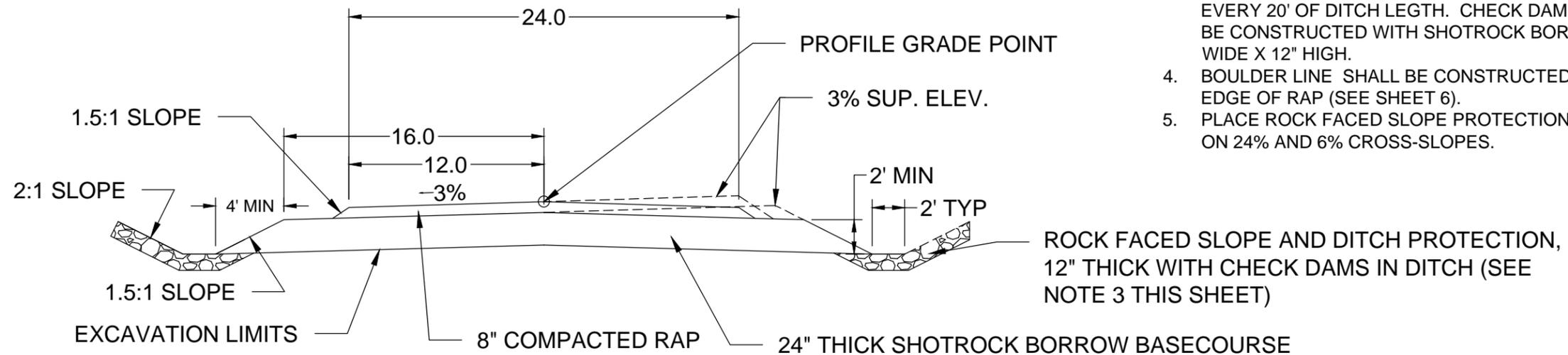
SHEET NO.
2 OF 8



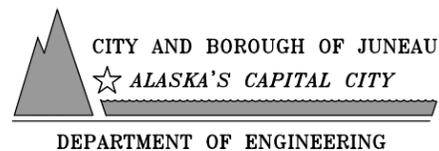
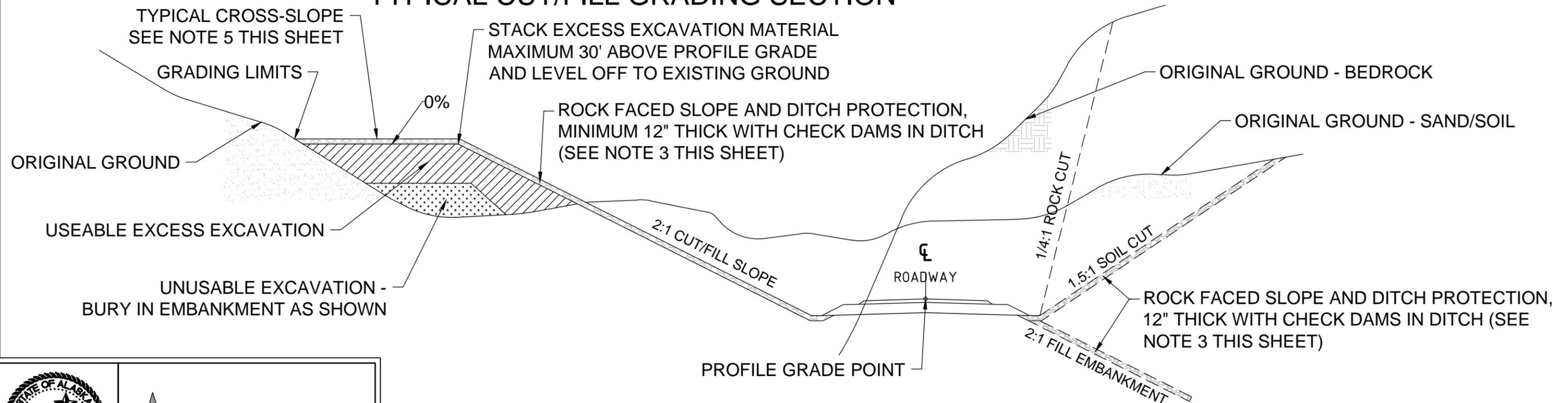
NOTES

1. ALL MEASUREMENTS IN FEET, UNLESS INDICATED OTHERWISE.
2. ARMOR ALL SOIL CUT/FILL SLOPES AND DITCHES WITH SHOTROCK BORROW FROM ROAD ALIGNMENT EXCAVATION.
3. CONSTRUCT ROCK CHECK DAMS IN BOTH DITCHES EVERY 20' OF DITCH LEGTH. CHECK DAMS SHOULD BE CONSTRUCTED WITH SHOTROCK BORROW, 36" WIDE X 12" HIGH.
4. BOULDER LINE SHALL BE CONSTRUCTED ALONG EDGE OF RAP (SEE SHEET 6).
5. PLACE ROCK FACED SLOPE PROTECTION 12' THICK ON 24% AND 6% CROSS-SLOPES.

TYPICAL ROAD SECTION



TYPICAL CUT/FILL GRADING SECTION



NORTH LEMON CREEK MATERIAL SOURCE
ROAD IMPROVEMENTS
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TYPICAL SECTIONS

SHEET NO.
4 OF 8

NOTE: TOPO LINES ARE EXISTING, PRECONSTRUCTION CONDITIONS ARE APPROXIMATE

END TEMPORARY ROAD AT 166.0 FT EL.
MATCH WITH EXISTING UPPER TRAIL

STOCKPILE EXCESS USEABLE
SAND/GRAVEL EXCAVATION HERE

GRADE SLOPE TO MATCH
TEMPORARY ROAD

END ROAD SECTION
SEE SHEETS 3 AND 4

UPPER TRAIL (EXISTING)

TEMPORARY ROAD, 12' WIDE SINGLE LANE
AVERAGE GRADE: 18%
CAP ROAD WITH 12" THICK SHOTROCK BORROW
LENGTH: 280'

APPROX. EXTENT OF TEMPORARY
ROAD EMBANKMENT, 2:1 SLOPE

BEGIN TEMPORARY ROAD AT 115.0 FT EL
ALIGN WITH EXISTING TRAIL

EXPOSE BEDROCK SLOPE

2:1 SLOPE

19+00.0

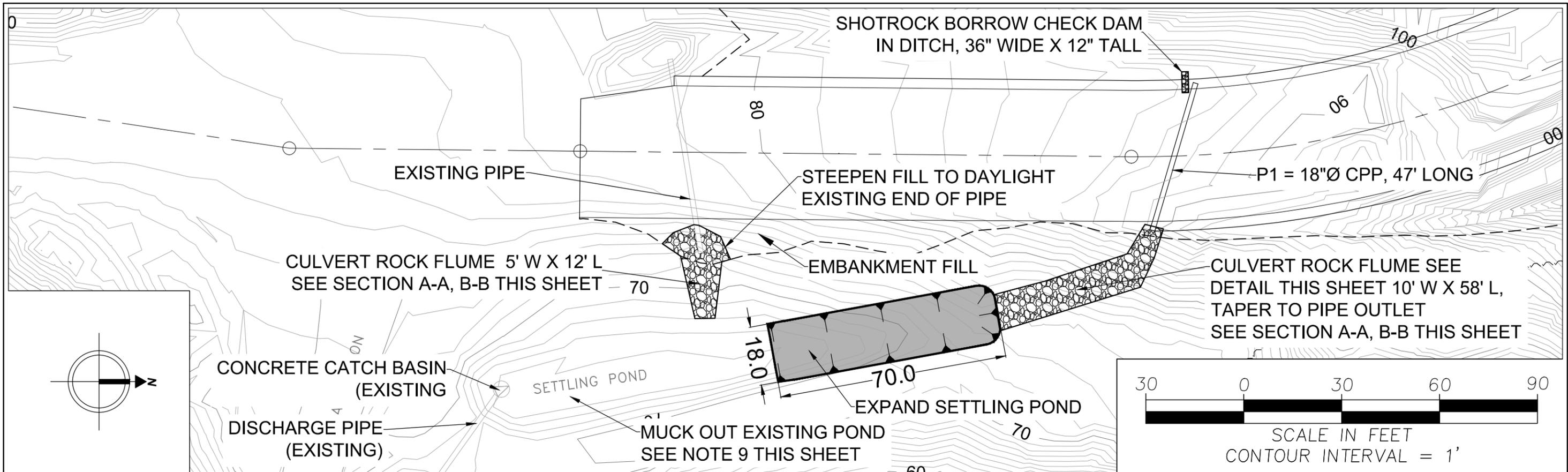
SCALE IN FEET
CONTOUR INTERVAL = 1'

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ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

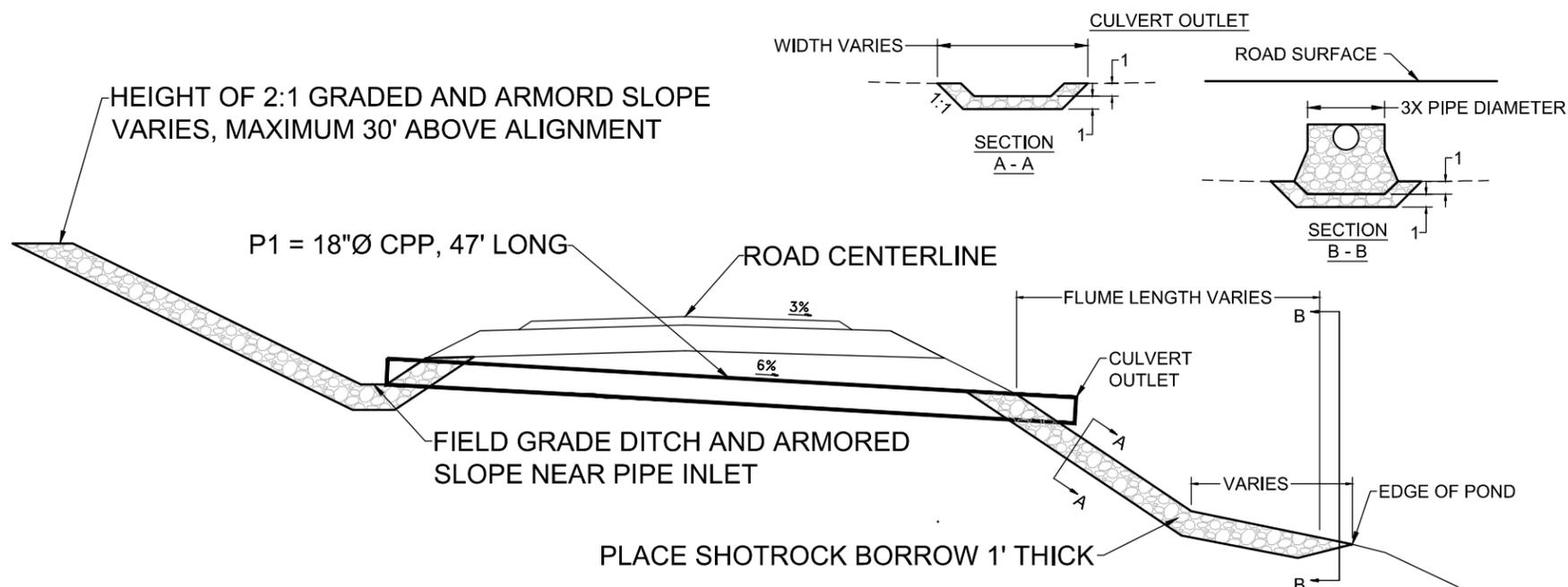
NORTH LEMON CREEK MATERIAL SOURCE
ROAD IMPROVEMENTS
CBJ CONTRACT BE17-110

TEMPORARY ACCESS ROAD

SHEET NO.
5 OF 8

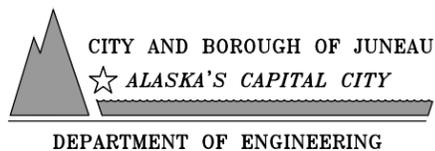


CULVERT PIPE AND ROCK FLUME DETAIL



NOTES

1. ALL MEASUREMENTS IN FEET, UNLESS INDICATED OTHERWISE.
2. SLOPES ADJACENT TO P1 INLET SHOULD BE FIELD FIT.
3. EXISTING PIPES SHOULD BE LEFT IN PLACE AND OUTFALL FLUMES CONSTRUCTED AS SHOWN.
4. DITCH ALONG RIGHT SIDE OF ALIGNMENT SHOULD END AT P1 OUTLET AND SHOULD DISCHARGE INTO P1 FLUME.
5. CUT SLOPE ON RIGHT SIDE OF ALIGNMENT TRANSITIONS TO FILL EMBANKMENT AT P1 OUTLET.
6. CULVERT AND FLUME LENGTHS ARE APPROXIMATE
7. SHOTROCK BORROW CHECK DAM IN LEFT DITCH OF ROAD ALIGNMENT SHOULD BE PLACED ON DOWNGRADE SIDE OF P1 INLET AND SHOULD DIRECT DITCH WATER INTO PIPE.
8. P1 BEDDING SHOULD BE COMPACTED D-1 ROCK MATERIAL.
9. SETTLING POND EXPANSION SHOULD EXCAVATE APPROXIMATELY 70'L X 18'W X 4' DEEP. POND WALLS SHOULD SLOPE 2:1 TOWARD CENTERLINE OF POND. BOTH SHOTROCK FLUMES SHOULD DAYLIGHT AND DRAIN INTO POND. MUCK OUT EXISTING POND TO 4' BELOW BASIN INLET.

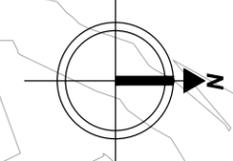


PLACE BOULDERS FROM GATE POST TO TREELINE, APPROX. 65'

INSTALL TWO TELSPAR SIGN POSTS WITH TWO HORIZONTAL TELSPAR SUPPORTS BETWEEN POSTS

ROAD INTERSECTION GRADING AREA SEE NOTE 7 THIS SHEET

MATCH GRADING TO EXISTING PAVEMENT



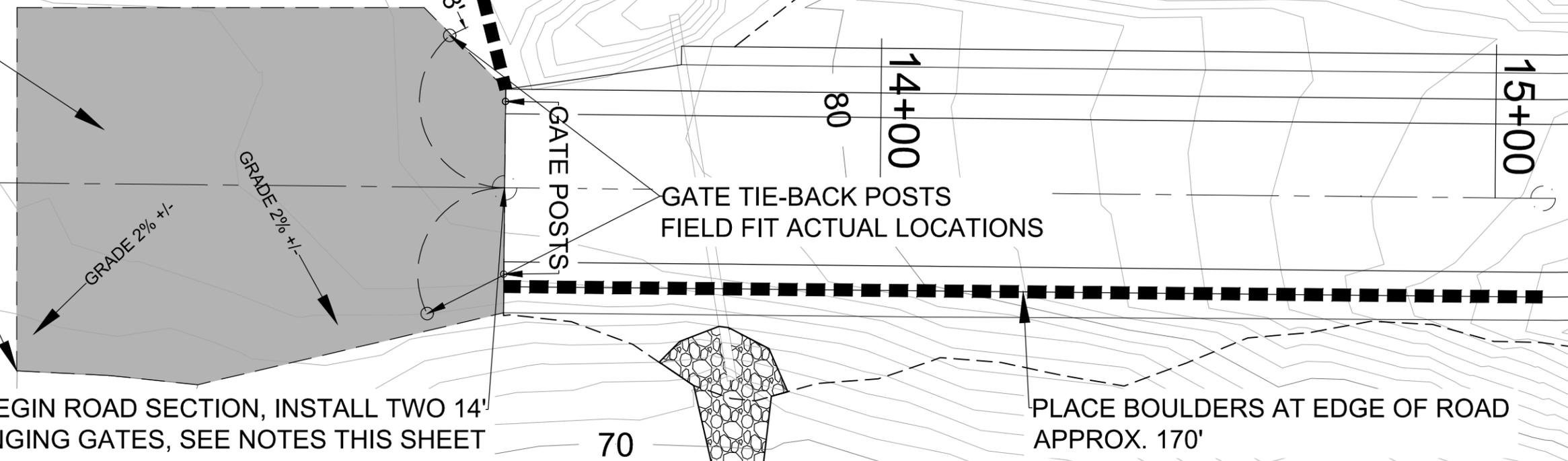
NOT TO SCALE

BEGIN ROAD SECTION, INSTALL TWO 14' SWINGING GATES, SEE NOTES THIS SHEET

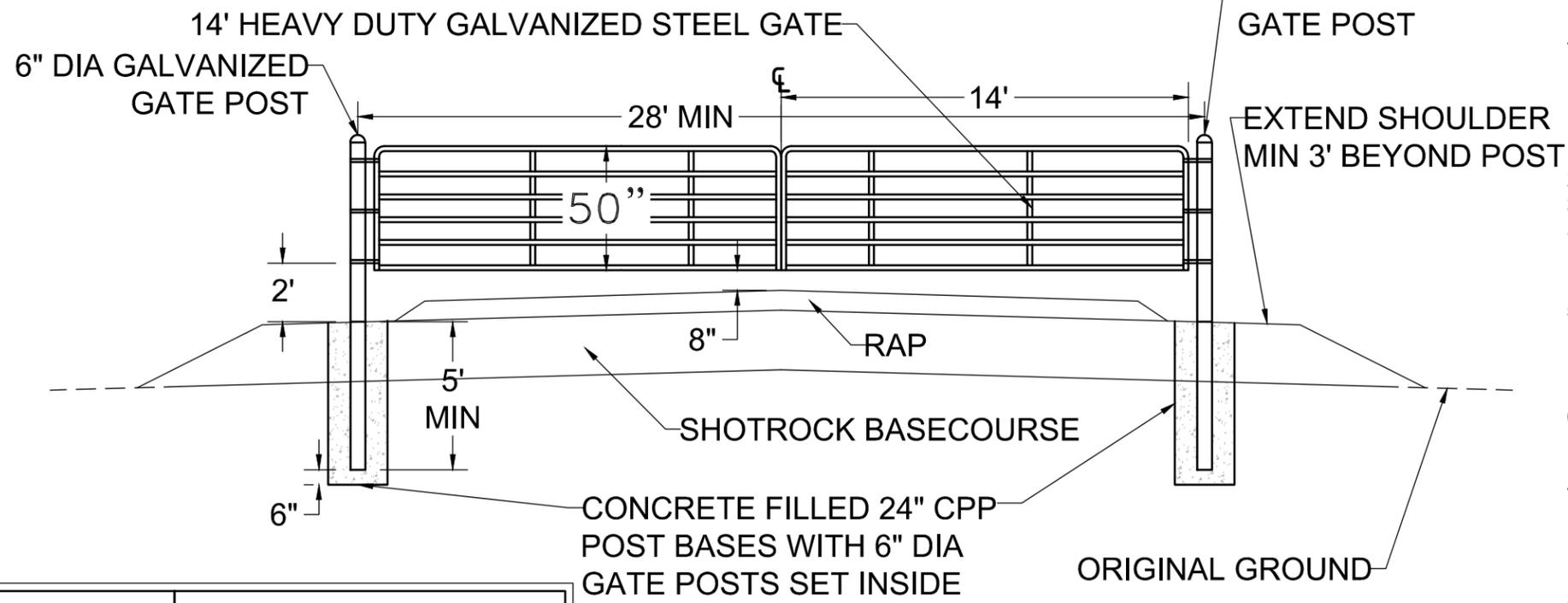
GATE POSTS

GATE TIE-BACK POSTS FIELD FIT ACTUAL LOCATIONS

PLACE BOULDERS AT EDGE OF ROAD APPROX. 170'



NOTES



1. ALL GATE AND FENCE POSTS SHALL BE SET IN CONCRETE-FILLED CORRUGATED POLYETHYLENE PIPE (18"Ø MIN), FULLY EMBEDDED IN ROAD BASE OR IN NATIVE SOIL, WITH TOP OF CPP SET FLUSH WITH THE SURROUNDING GROUND SURFACE, AND CONCRETE DOMED TO DRAIN AWAY FROM THE POST.
2. ALL POSTS SHALL BE CAPPED OR COMPLETELY FILLED WITH CONCRETE.
3. GATES SHOULD BE INSTALLED AT STA 13+38.9
4. GATE ENDS SHOULD BE WITHIN 3" OF EACH OTHER WHEN IN THE CLOSED POSITION. GATES WILL LOCK TOGETHER WITH CHAIN AT CENTER OF ROAD ALIGNMENT.
5. 3/8" CHAIN, MIN 2' LONG, SHALL BE WELDED TO THE OPEN GATE ENDS SO THE CHAINS CAN BE LOCKED TOGETHER WHEN THE GATES ARE IN THE CLOSED POSITION. CHAINS SHALL BE LONG ENOUGH TO LOOP AROUND THE TIE-BACK POSTS TO SECURE THE GATES WHEN OPEN.
6. GATE TIE-BACK POSTS SHALL BE 2-1/2" DIAMETER FENCE POSTS, SET AND INSTALLED THE SAME AS GATE HINGE POSTS. FIELD FIT LOCATION AS REQUIRED.
7. INSTALL TWO TELSPAR SIGN POSTS PER CBJ STANDARD DETAIL 127B. SIGN POSTS SHOULD BE POSITIONED TO FACE LEMON CREEK BRIDGE. SIGN POSTS SHALL BE 3' APART, WITH FIELD LOCATION DETERMINED BY THE ENGINEER. NO SIGN INSTALLED THIS CONTRACT.
8. GRADE AREA BETWEEN GATE AND BRIDGE ASPHALT APRON TO MATCH ROAD AND APRON PROFILES. AREA IS APPROXIMATELY 4000 SQUARE FEET.



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NORTH LEMON CREEK MATERIAL SOURCE
 ROAD IMPROVEMENTS
 CBJ CONTRACT BE17-110

GATE DETAIL

SHEET NO.
 7 OF 8

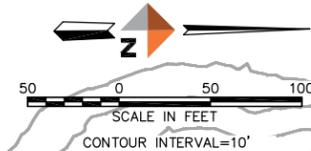
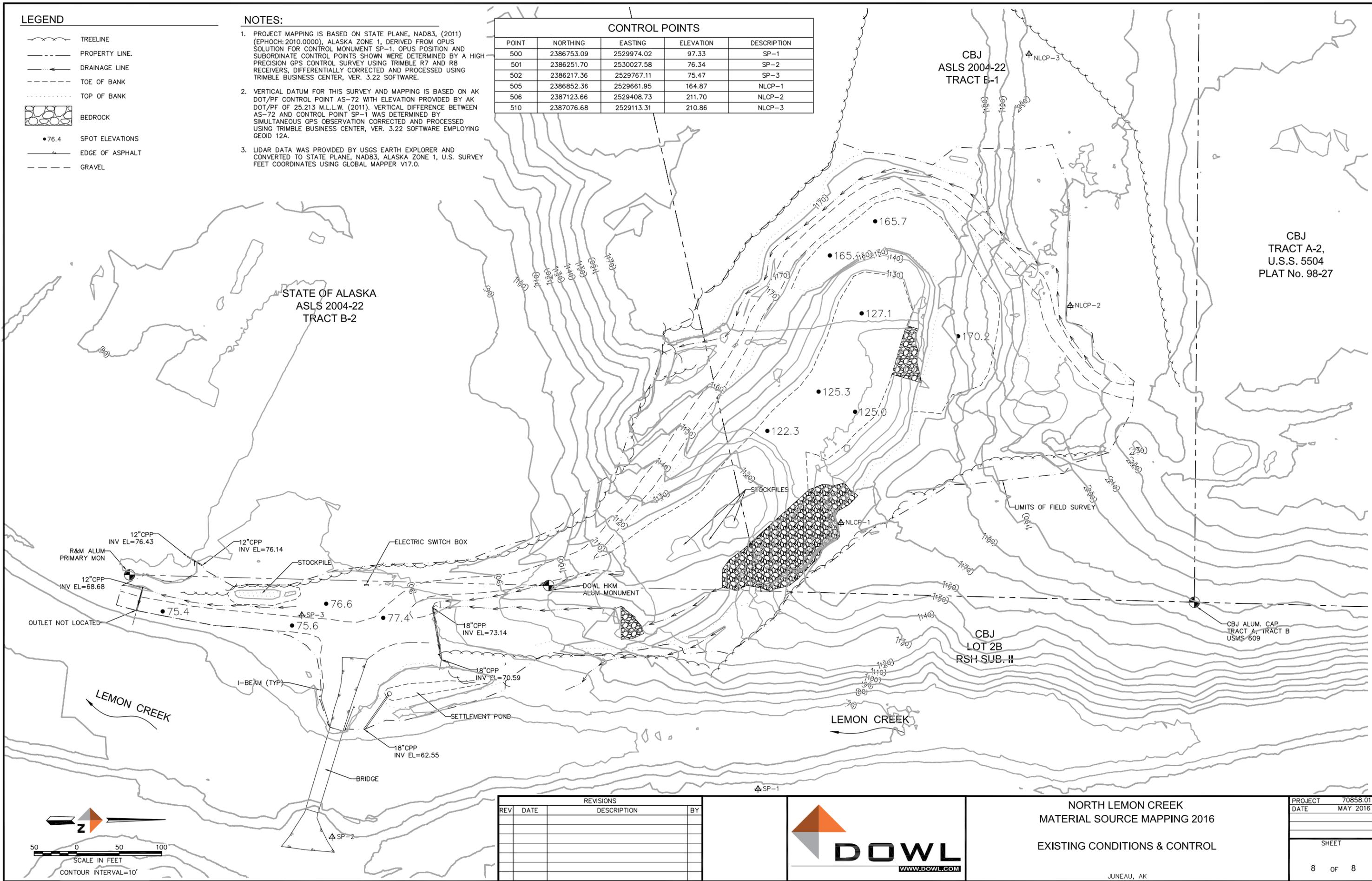
LEGEND

-  TREELINE
-  PROPERTY LINE.
-  DRAINAGE LINE
-  TOE OF BANK
-  TOP OF BANK
-  BEDROCK
-  76.4 SPOT ELEVATIONS
-  EDGE OF ASPHALT
-  GRAVEL

NOTES:

1. PROJECT MAPPING IS BASED ON STATE PLANE, NAD83, (2011) (EPOCH: 2010.0000), ALASKA ZONE 1, DERIVED FROM OPUS SOLUTION FOR CONTROL MONUMENT SP-1. OPUS POSITION AND SUBORDINATE CONTROL POINTS SHOWN WERE DETERMINED BY A HIGH PRECISION GPS CONTROL SURVEY USING TRIMBLE R7 AND R8 RECEIVERS, DIFFERENTIALLY CORRECTED AND PROCESSED USING TRIMBLE BUSINESS CENTER, VER. 3.22 SOFTWARE.
2. VERTICAL DATUM FOR THIS SURVEY AND MAPPING IS BASED ON AK DOT/PF CONTROL POINT AS-72 WITH ELEVATION PROVIDED BY AK DOT/PF OF 25.213 M.L.L.W. (2011). VERTICAL DIFFERENCE BETWEEN AS-72 AND CONTROL POINT SP-1 WAS DETERMINED BY SIMULTANEOUS GPS OBSERVATION CORRECTED AND PROCESSED USING TRIMBLE BUSINESS CENTER, VER. 3.22 SOFTWARE EMPLOYING GEOID 12A.
3. LIDAR DATA WAS PROVIDED BY USGS EARTH EXPLORER AND CONVERTED TO STATE PLANE, NAD83, ALASKA ZONE 1, U.S. SURVEY FEET COORDINATES USING GLOBAL MAPPER V17.0.

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
500	2386753.09	2529974.02	97.33	SP-1
501	2386251.70	2530027.58	76.34	SP-2
502	2386217.36	2529767.11	75.47	SP-3
505	2386852.36	2529661.95	164.87	NLCP-1
506	2387123.66	2529408.73	211.70	NLCP-2
510	2387076.68	2529113.31	210.86	NLCP-3



REVISIONS			
REV	DATE	DESCRIPTION	BY



NORTH LEMON CREEK
MATERIAL SOURCE MAPPING 2016
EXISTING CONDITIONS & CONTROL

PROJECT	70858.01
DATE	MAY 2016
SHEET	
8	OF 8