

STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF PARKS  
AND  
OUTDOOR RECREATION

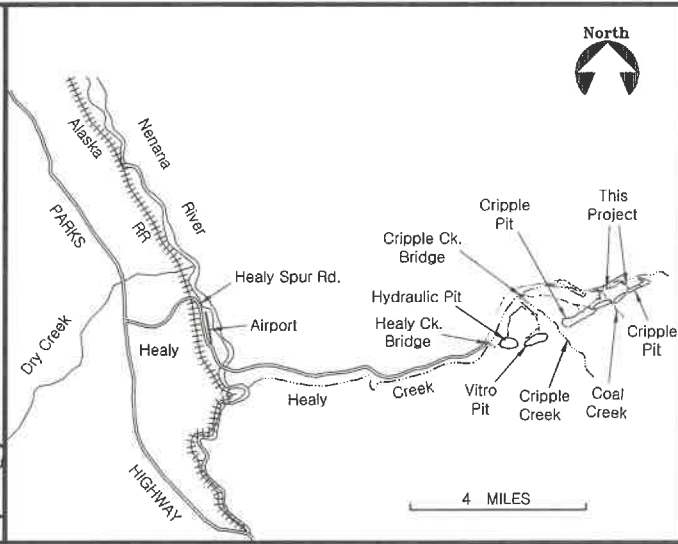
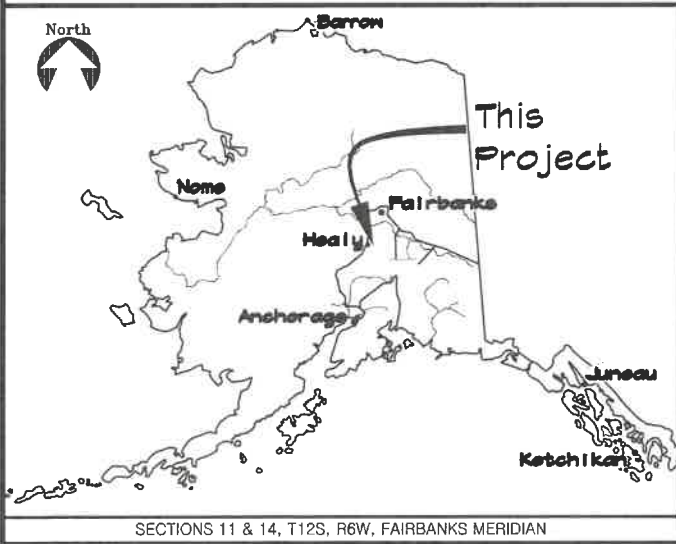
COAL CREEK TO CENTER PIT  
ROAD RESTORATION

PROJECT NO.  
52959-7

In Cooperation with the AK DNR Division of ML&W,  
Abandoned Mine Lands Program

Vicinity Map

Location Map



INDEX

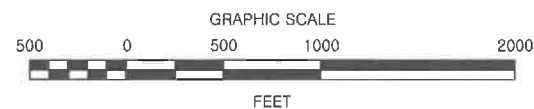
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|-----------------------------------------------------|-------------------------------------------------------------|
| 1. TITLE SHEET                                      | 7. ROAD CROSS SECTIONS -- BOP TO 28+00 -- EXISTING & DESIGN |
| 2. OVERVIEW                                         | 8. ROAD CROSS SECTIONS -- 29+00 TO EOP -- EXISTING & DESIGN |
| 3. ESTIMATE OF QUANTITIES                           | 9. ACCESS IMPROVEMENTS - TYPICAL SECTIONS & DITCH CALLOUTS  |
| 4. EXISTING CONDITIONS AND CLEARING & GRUBBING PLAN |                                                             |
| 5. SITE PLAN                                        |                                                             |
| 6. ROAD CL PROFILES                                 |                                                             |

The following Division of Parks & Outdoor Rec. standard drawings apply to this project: None  
The following D.O.T. (Highways) standard drawings apply to this project: None

Plans developed by:  
**STATE OF ALASKA**  
Department of Natural Resources  
Abandoned Mine Lands Section  
550 W 7th Ave. Suite 920, Anchorage, AK 99501  
Recommended:  
*Charles J. Ireys* 4-23-25  
Charles J. Ireys Date  
AML Program Manager  
Approved:  
*Christy Colles* 4/23/25  
Christy Colles Date  
Director, Division Mining, Land, & Water



- NOTES:
1. THE PROJECT SITE IS ACCESSIBLE VIA EXISTING ROADS TO CRIPPLE CREEK PIT AND THE COAL CREEK CROSSING.
  2. THE DESIGNATED BORROW SOURCE IS LOCATED APPROXIMATELY THREE (3) MILES FROM THE PROJECT BOP.
  2. ELEVATIONS, LINES, AND GRADES ARE APPROXIMATE. TOPOGRAPHY WAS GENERATED FROM LIDAR DATA ACQUIRED BY QUANTUM SPATIAL ON MAY 4, 2015.
  3. EXISTING VEGETATION LIMITS, OVERGROWN ROAD ALIGNMENTS, & CREEK SHORELINES ARE BASED ON 2006-2007



**STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES**  
**PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION**  
**550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731**

**COAL CREEK TO CENTER PIT  
ROAD RESTORATION  
PROJECT No. 52959-7**

**OVERVIEW**



PREPARED: RDA  
DRAWN: RDA  
REVIEWED: RBM  
DATE: 03/13/2025

SHEET  
**02**  
OF 09 SHEETS



| ESTIMATE OF QUANTITIES |                                                         |                |           |
|------------------------|---------------------------------------------------------|----------------|-----------|
| ITEM NO.               | ITEM                                                    | UNIT           | QUANTITY  |
| 201.0003.0000          | CLEARING & GRUBBING                                     | ACRE           | 2.0       |
| 203.0005.000A          | BORROW, TYPE A                                          | CUBIC YARD     | 450       |
| 302.0003.0000          | PROCESSING FOR SUBGRADE MODIFICATION                    | STATION        | 34.15     |
| 618.0001.0000          | SEEDING                                                 | ACRE           | 0.6       |
| 640.0001.0000          | MOBILIZATION AND DEMOBILIZATION                         | LUMP SUM       | ALL REQ'D |
| 641.0001.0000          | EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION | LUMP SUM       | ALL REQ'D |
| 641.0002.0000          | TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL      | CONTINGENT SUM | ALL REQ'D |
| 641.0006.0000          | SWPPP PRICE ADJUSTMENT / WITHHOLDING                    | CONTINGENT SUM | ALL REQ'D |
| 642.0001.0000          | CONSTRUCTION SURVEYING                                  | LUMP SUM       | ALL REQ'D |
| 646.0001.0000          | CPM SCHEDULING                                          | LUMP SUM       | ALL REQ'D |
| 647.0002.0000          | WIDE PAD DOZER, 65 HP MINIMUM                           | HOUR           | 10        |
| 647.0006.0000          | HYDRAULIC EXCAVATOR, 1 CY, 100 HP, MINIMUM              | HOUR           | 10        |
| 647.0007.0000          | MOTOR GRADER, 220 HP MINIMUM                            | HOUR           | 10        |

| LEGEND                                                                                     |                                                                                     | ABBREVIATIONS |                                               |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|-----------------------------------------------|
| EXISTING TOPOGRAPHY                                                                        |  | Ø             | DIAMETER                                      |
| EXISTING ROAD EDGES                                                                        |  | 2:1, 4:1      | SLOPE RATIOS, IN HORIZONTAL TO VERTICAL UNITS |
| CREEK FLOWLINE                                                                             |  | ACOE          | U.S. ARMY CORPS OF ENGINEERS                  |
| EXISTING EDGE OF VEGETATION                                                                |  | ADEC          | ALASKA DEPT. OF ENVIRONMENTAL CONSERVATION    |
| PROPOSED CLEARING & GRUBBING                                                               |  | ADF&G         | ALASKA DEPARTMENT OF FISH AND GAME            |
| PROJECT BOUNDARY                                                                           |  | APPROX.       | APPROXIMATE                                   |
|                                                                                            |                                                                                     | BMP           | BEST MANAGEMENT PRACTICES                     |
|                                                                                            |                                                                                     | B.O.P.        | BEGINNING OF PROJECT                          |
|                                                                                            |                                                                                     | C&G           | CLEARING AND GRUBBING                         |
|                                                                                            |                                                                                     | CFS           | CUBIC FEET PER SECOND                         |
|                                                                                            |                                                                                     | CL            | CENTERLINE                                    |
|                                                                                            |                                                                                     | CP            | CONTROL POINT                                 |
|                                                                                            |                                                                                     | C.F.          | CUBIC FEET                                    |
|                                                                                            |                                                                                     | C.Y.          | CUBIC YARD                                    |
|                                                                                            |                                                                                     | E.C.B.        | EROSION CONTROL BLANKET                       |
|                                                                                            |                                                                                     | E.O.P.        | END OF PROJECT                                |
|                                                                                            |                                                                                     | F.G.          | FINAL GRADE                                   |
|                                                                                            |                                                                                     | FT.           | FEET                                          |
|                                                                                            |                                                                                     | GPM           | GALLONS PER MINUTE                            |
|                                                                                            |                                                                                     | GPS           | GLOBAL POSITIONING SYSTEM                     |
|                                                                                            |                                                                                     | IN.           | INCHES                                        |
|                                                                                            |                                                                                     | L.S.          | LUMP SUM                                      |
|                                                                                            |                                                                                     | N. S. E. W    | NORTH, SOUTH, EAST WEST                       |
|                                                                                            |                                                                                     | NAD83         | NORTH AMERICAN DATUM, 1983                    |
|                                                                                            |                                                                                     | O.G.          | ORIGINAL GROUND, EXISTING TOPOGRAPHY          |
|                                                                                            |                                                                                     | O.H.W.        | ORDINARY HIGH WATER                           |
|                                                                                            |                                                                                     | PERF          | PERFORATED                                    |
|                                                                                            |                                                                                     | P.I.P.        | PRESERVE IN PLACE                             |
|                                                                                            |                                                                                     | PT.           | POINT                                         |
|                                                                                            |                                                                                     | Q             | FLOW RATE, EXPRESSED IN VOLUME PER UNIT TIME  |
|                                                                                            |                                                                                     | S.P.          | STATE PLANE COORDINATE SYSTEM                 |
|                                                                                            |                                                                                     | SQ. FT.       | SQUARE FEET                                   |
|                                                                                            |                                                                                     | SQ. YD.       | SQUARE YARDS                                  |
|                                                                                            |                                                                                     | STA.          | STATION                                       |
|                                                                                            |                                                                                     | TRANS.        | TRANSITION                                    |
|                                                                                            |                                                                                     | TYP.          | TYPICAL                                       |
| OTHER LINETYPES AND HATCH PATTERNS WITH SPECIFIC APPLICATIONS ARE LABELED IN THE DRAWINGS. |                                                                                     |               |                                               |



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550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731

COAL CREEK TO CENTER PIT

ROAD RESTORATION

PROJECT No. 52959-7

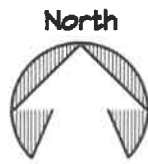


PREPARED: RDA  
DRAWN: RDA  
REVIEWED: RBM  
DATE: 03/14/2025

SHEET  

03

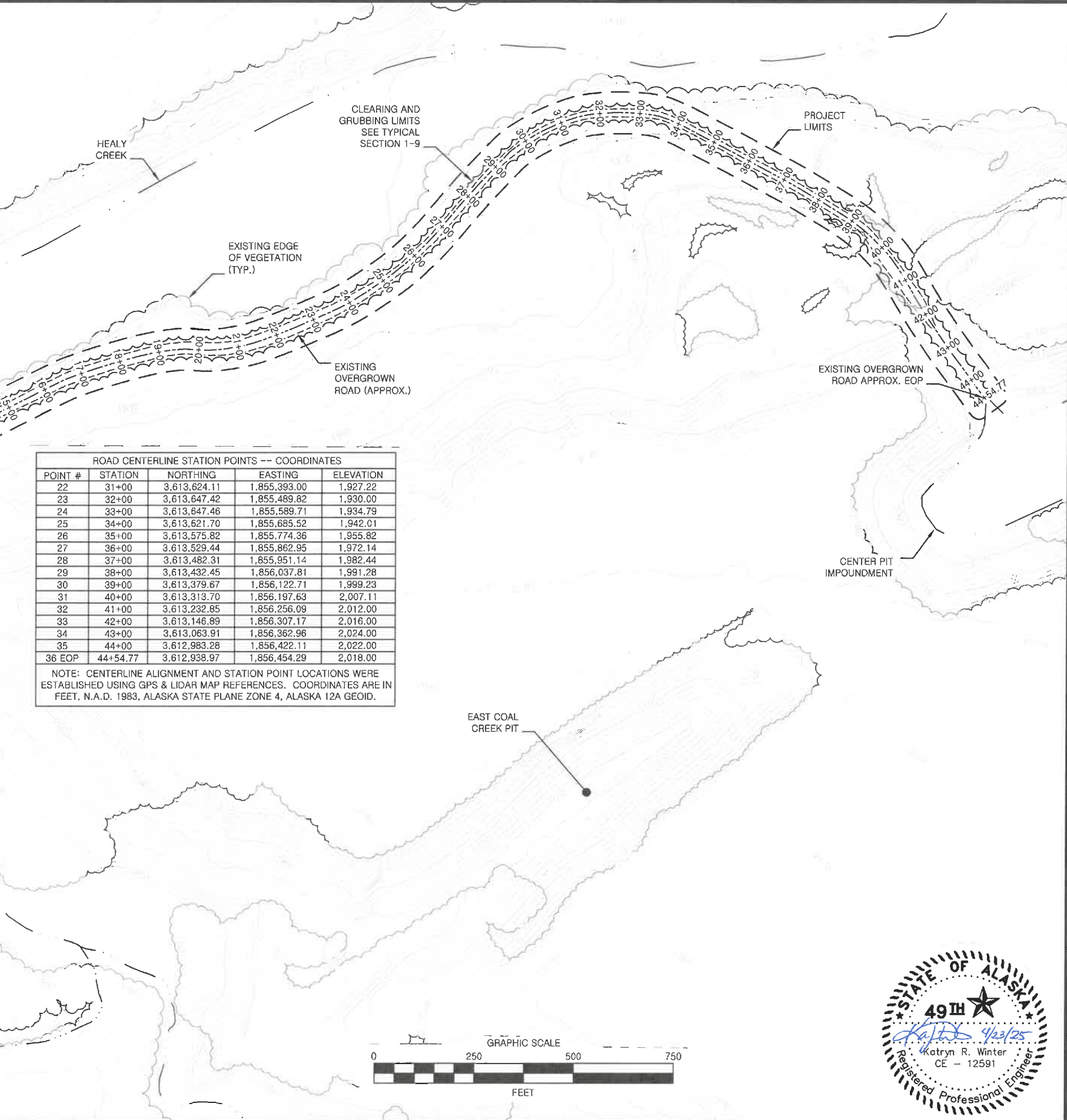
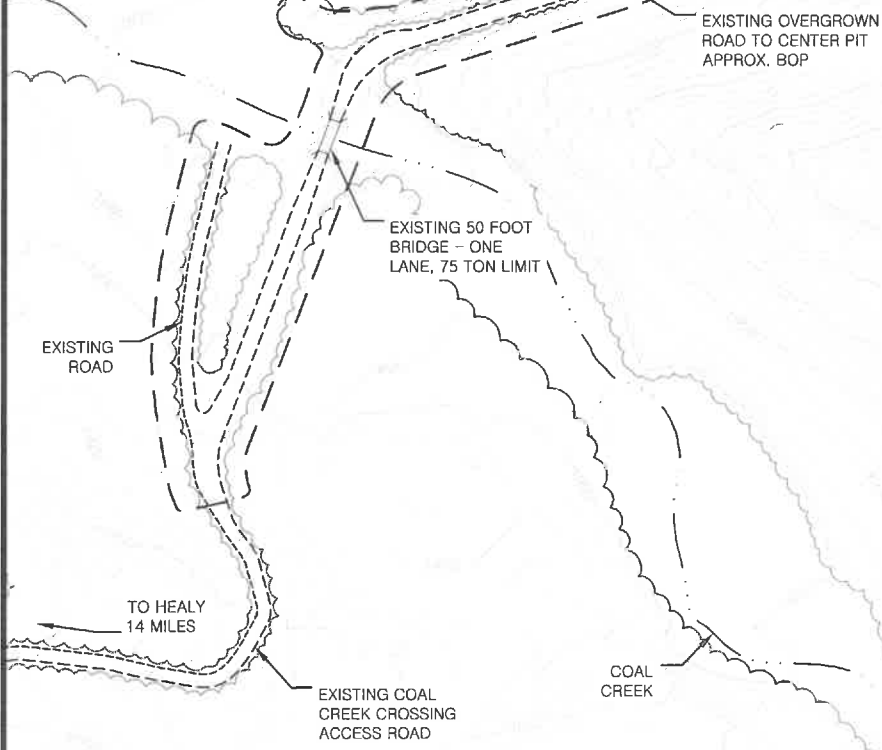
OF 09 SHEETS



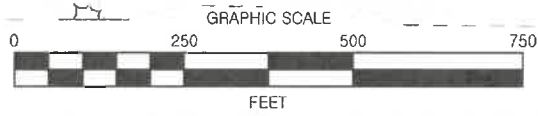
| ROAD CENTERLINE STATION POINTS -- COORDINATES |         |              |              |           |
|-----------------------------------------------|---------|--------------|--------------|-----------|
| POINT #                                       | STATION | NORTHING     | EASTING      | ELEVATION |
| 1 EOP                                         | 10+40   | 3,612,722.82 | 1,853,596.30 | 1910.00   |
| 2                                             | 11+00   | 3,612,743.19 | 1,853,652.73 | 1,911.29  |
| 3                                             | 12+00   | 3,612,780.04 | 1,853,745.69 | 1,913.11  |
| 4                                             | 13+00   | 3,612,822.48 | 1,853,836.20 | 1,912.95  |
| 5                                             | 14+00   | 3,612,867.34 | 1,853,925.57 | 1,912.42  |
| 6                                             | 15+00   | 3,612,912.92 | 1,854,014.58 | 1,911.22  |
| 7                                             | 16+00   | 3,612,957.59 | 1,854,104.05 | 1,911.12  |
| 8                                             | 17+00   | 3,612,997.88 | 1,854,195.46 | 1,912.32  |
| 9                                             | 18+00   | 3,613,028.03 | 1,854,290.79 | 1,914.00  |
| 10                                            | 19+00   | 3,613,051.50 | 1,854,387.95 | 1,914.00  |
| 11                                            | 20+00   | 3,613,056.63 | 1,854,487.41 | 1,914.70  |
| 12                                            | 21+00   | 3,613,064.79 | 1,854,586.76 | 1,917.79  |
| 13                                            | 22+00   | 3,613,094.32 | 1,854,682.11 | 1,920.00  |
| 14                                            | 23+00   | 3,613,132.61 | 1,854,774.47 | 1,920.86  |
| 15                                            | 24+00   | 3,613,175.34 | 1,854,864.82 | 1,922.70  |
| 16                                            | 25+00   | 3,613,229.80 | 1,854,948.64 | 1,924.46  |
| 17                                            | 26+00   | 3,613,292.74 | 1,855,026.24 | 1,926.09  |
| 18                                            | 27+00   | 3,613,364.95 | 1,855,095.33 | 1,925.41  |
| 19                                            | 28+00   | 3,613,175.34 | 1,855,160.39 | 1,926.00  |
| 20                                            | 29+00   | 3,613,514.15 | 1,855,228.44 | 1,927.43  |
| 21                                            | 30+00   | 3,613,579.34 | 1,855,303.76 | 1,926.99  |

| ROAD CENTERLINE STATION POINTS -- COORDINATES |          |              |              |           |
|-----------------------------------------------|----------|--------------|--------------|-----------|
| POINT #                                       | STATION  | NORTHING     | EASTING      | ELEVATION |
| 22                                            | 31+00    | 3,613,624.11 | 1,855,393.00 | 1,927.22  |
| 23                                            | 32+00    | 3,613,647.42 | 1,855,489.82 | 1,930.00  |
| 24                                            | 33+00    | 3,613,647.46 | 1,855,589.71 | 1,934.79  |
| 25                                            | 34+00    | 3,613,621.70 | 1,855,685.52 | 1,942.01  |
| 26                                            | 35+00    | 3,613,575.82 | 1,855,774.36 | 1,955.82  |
| 27                                            | 36+00    | 3,613,529.44 | 1,855,862.95 | 1,972.14  |
| 28                                            | 37+00    | 3,613,482.31 | 1,855,951.14 | 1,982.44  |
| 29                                            | 38+00    | 3,613,432.45 | 1,856,037.81 | 1,991.28  |
| 30                                            | 39+00    | 3,613,379.67 | 1,856,122.71 | 1,999.23  |
| 31                                            | 40+00    | 3,613,313.70 | 1,856,197.63 | 2,007.11  |
| 32                                            | 41+00    | 3,613,232.85 | 1,856,256.09 | 2,012.00  |
| 33                                            | 42+00    | 3,613,146.89 | 1,856,307.17 | 2,016.00  |
| 34                                            | 43+00    | 3,613,063.91 | 1,856,362.96 | 2,024.00  |
| 35                                            | 44+00    | 3,612,983.28 | 1,856,422.11 | 2,022.00  |
| 36 EOP                                        | 44+54.77 | 3,612,938.97 | 1,856,454.29 | 2,018.00  |

NOTE: CENTERLINE ALIGNMENT AND STATION POINT LOCATIONS WERE ESTABLISHED USING GPS & LIDAR MAP REFERENCES. COORDINATES ARE IN FEET, N.A.D. 1983, ALASKA STATE PLANE ZONE 4, ALASKA 12A GEOID.



- NOTES:
1. ELEVATIONS, LINES, AND GRADES ARE APPROXIMATE. TOPOGRAPHY WAS GENERATED FROM LIDAR DATA ACQUIRED BY QUANTUM SPATIAL ON MAY 4, 2015.
  2. ROAD STATION ELEVATIONS ALONG EXISTING GROUND ARE APPROXIMATE.
  3. THE PROJECT SITE IS ACCESSIBLE VIA EXISTING ROADS TO CRIPPLE CREEK PIT AND THE EXISTING COAL CREEK BRIDGE.
  4. CLEARING AND GRUBBING STOCKPILE AREAS SHALL BE APPROVED BY THE ENGINEER.
  5. EXISTING VEGETATION LIMITS, OVERGROWN ROAD ALIGNMENT, & CREEK SHORELINES ARE BASED ON 2006-2007 USDA RASTER COVERAGE, LIDAR TOPOGRAPHY, AND 2020-2024 FIELD OBSERVATIONS.



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COAL CREEK TO CENTER PIT

ROAD RESTORATION

PROJECT No. 52959-7

EXISTING CONDITIONS AND

CLEARING & GRUBBING PLAN

PREPARED: RDA

DRAWN: RDA

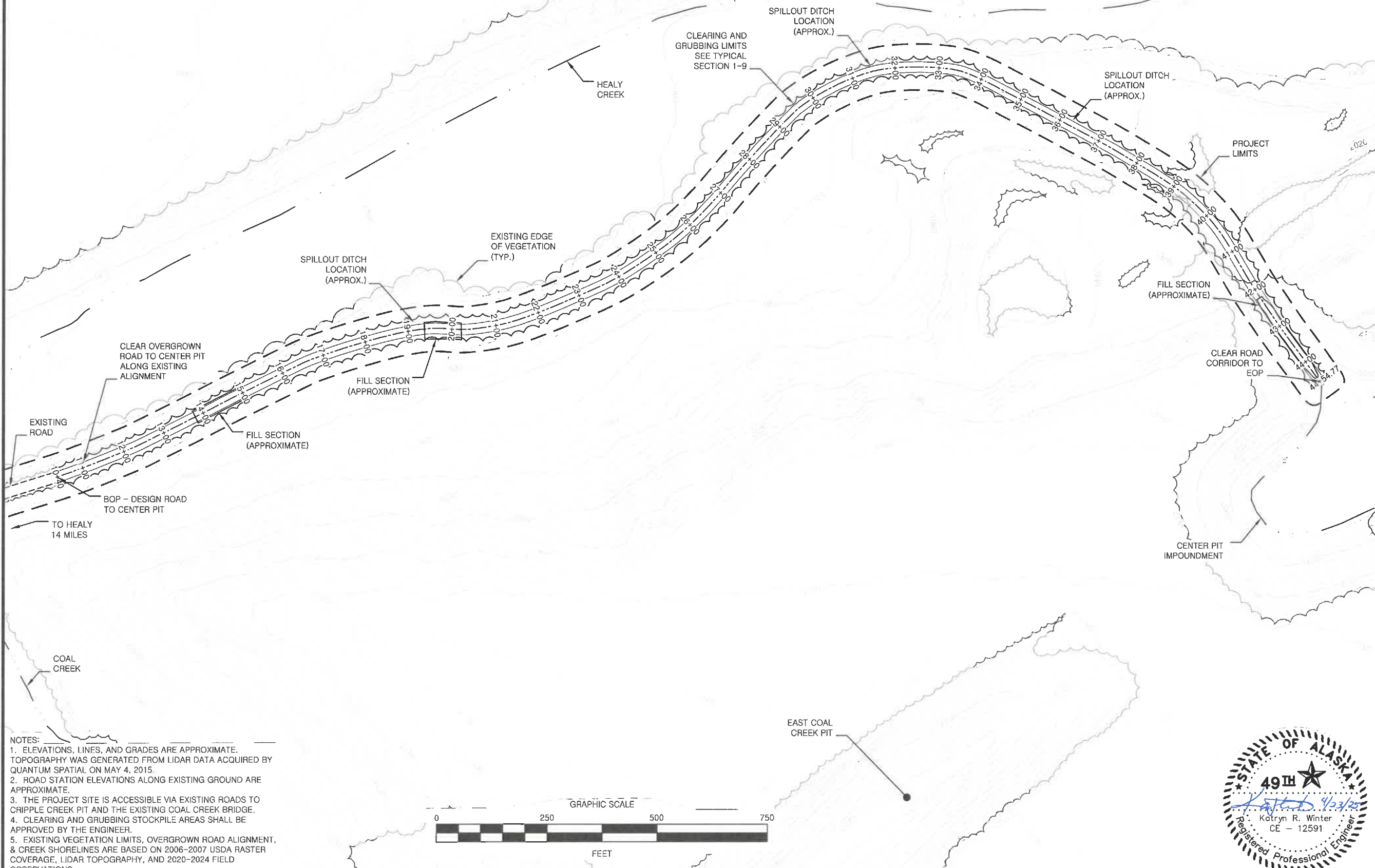
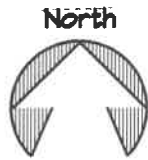
REVIEWED: RBM

DATE: 03/12/2025

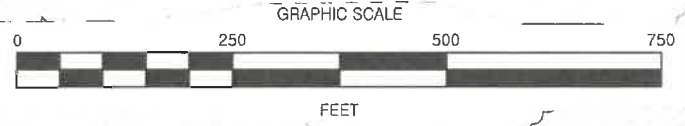
SHEET

04

OF 09 SHEETS

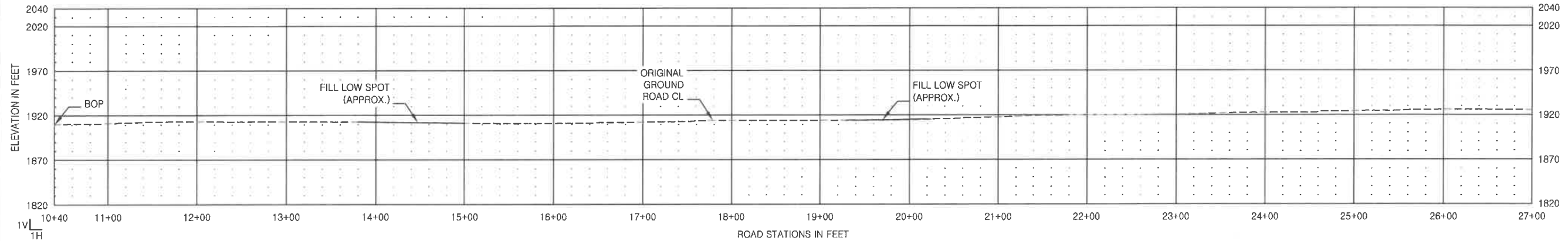


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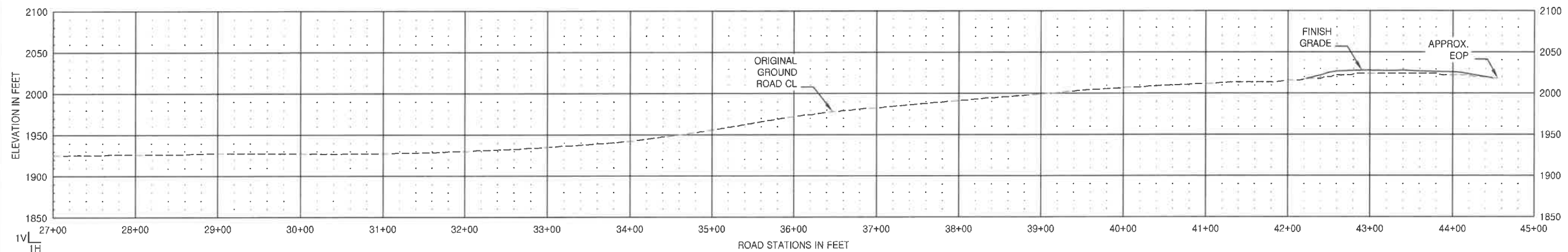


|                                                                                                                                                                                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES</b><br><b>PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION</b><br>550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731 |  |
| SITE PLAN                                                                                                                                                                                       |  |
| COAL CREEK TO CENTER PIT<br>ROAD RESTORATION<br>PROJECT No. 52959-7                                                                                                                             |  |
|                                                                                                            |  |
| PREPARED: RDA<br>DRAWN: RDA<br>REVIEWED: RBM<br>DATE: 03/12/2025                                                                                                                                |  |
| SHEET<br><b>05</b><br>OF 09 SHEETS                                                                                                                                                              |  |





1  
6 ROAD CL PROFILE, EXISTING GROUND  
STATIONS 10+40 TO 27+00



2  
6 ROAD CL PROFILE, EXISTING GROUND  
STATIONS 27+00 TO 44+55

NOTES:  
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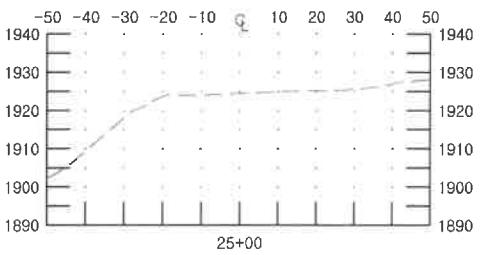
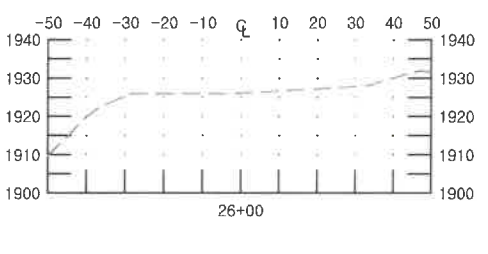
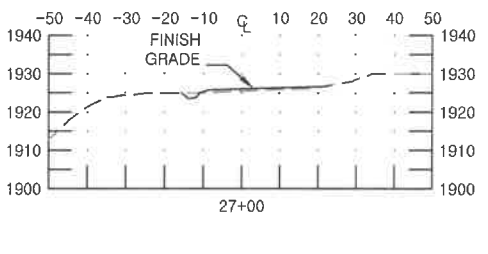
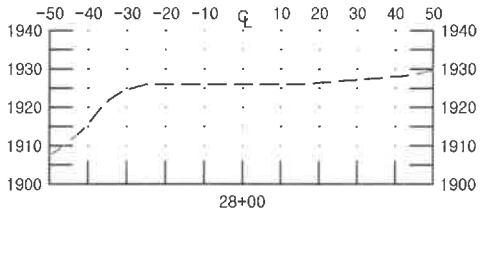
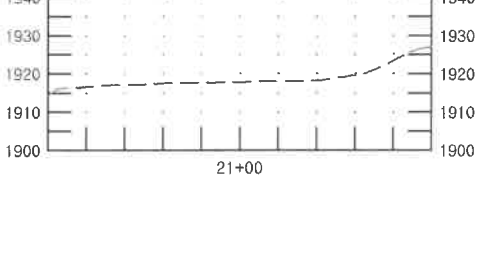
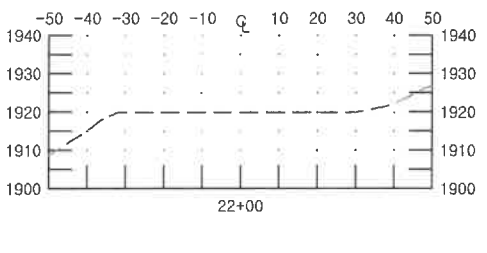
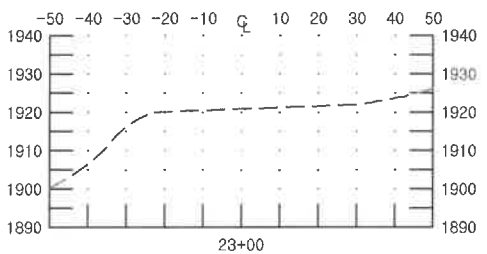
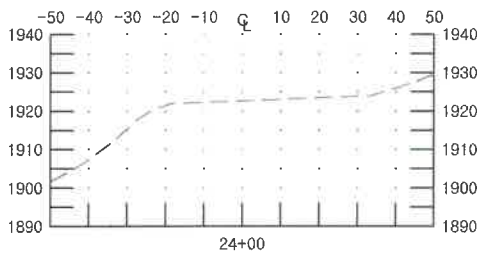
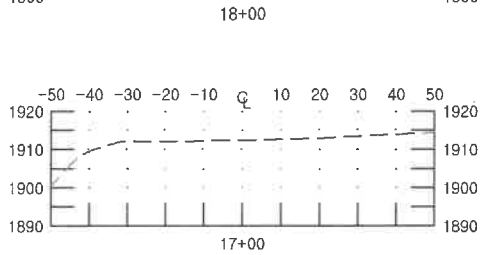
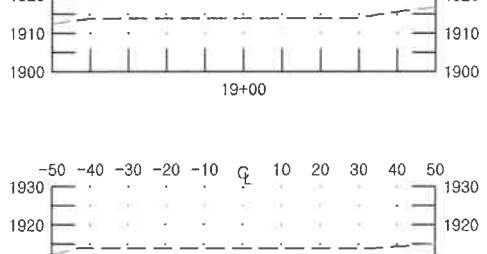
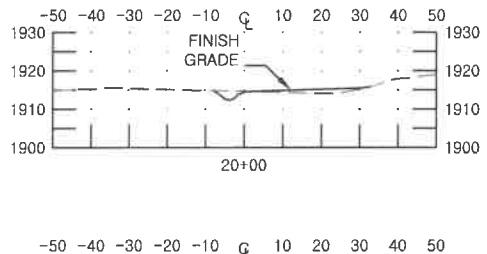
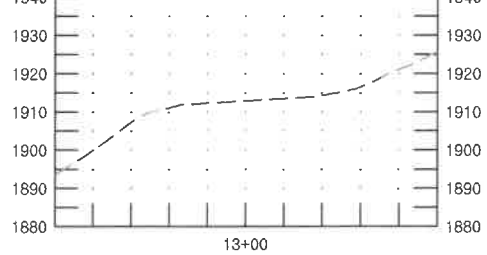
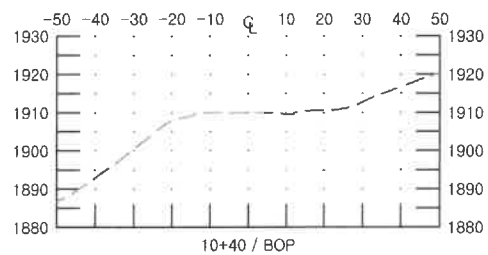
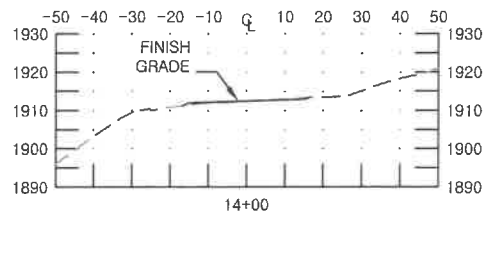
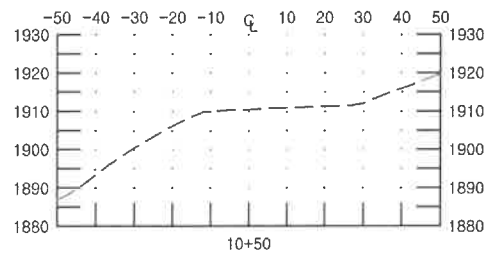
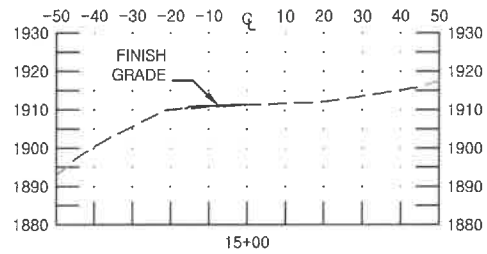
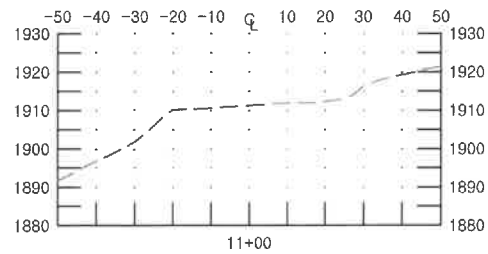
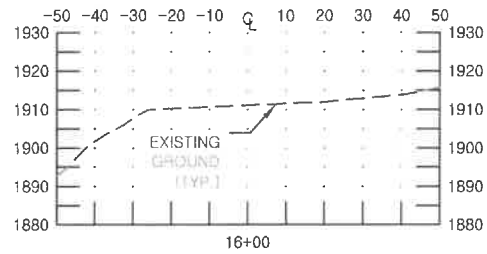
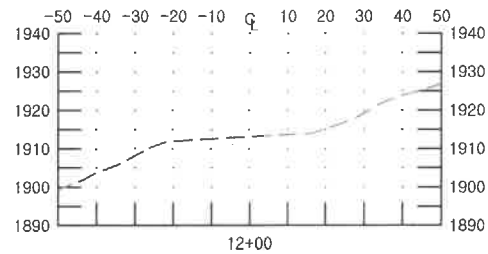
COAL CREEK TO CENTER PIT  
ROAD RESTORATION  
PROJECT No. 52959-7

ROAD CL PROFILES



PREPARED: RDA  
DRAWN: RDA  
REVIEWED: RBM  
DATE: 03/12/2025

SHEET  
06  
OF 09 SHEETS



NOTES:  
1. ELEVATIONS, LINES, AND GRADES ARE APPROXIMATE.  
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QUANTUM SPATIAL ON MAY 4, 2015.  
2. CLEARING LIMITS, FILL AND DITCH PLACEMENTS ARE  
APPROXIMATE. REFER TO TYPICAL SECTION 1-9 FOR DIMENSIONS.  
3. ROAD STATION ELEVATIONS ALONG EXISTING GROUND ARE  
APPROXIMATE.

1 ROAD CL SECTIONS, EXISTING GROUND  
7 STATIONS 10+40 TO 28+00



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550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731

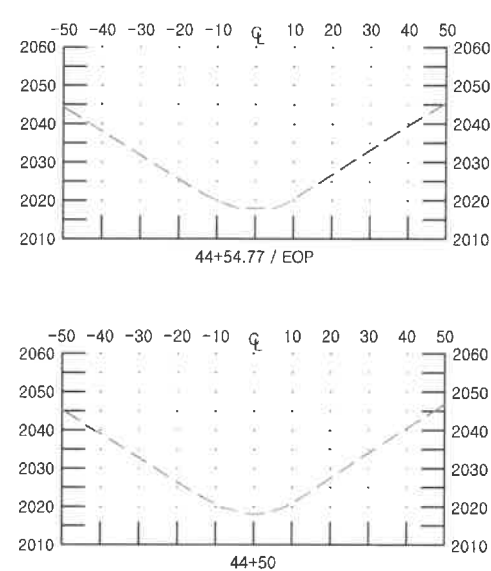
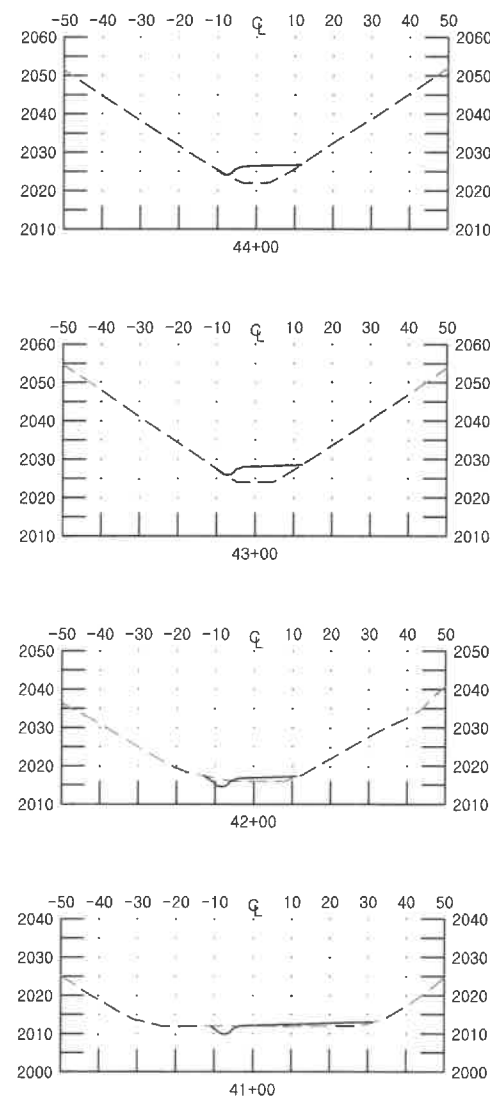
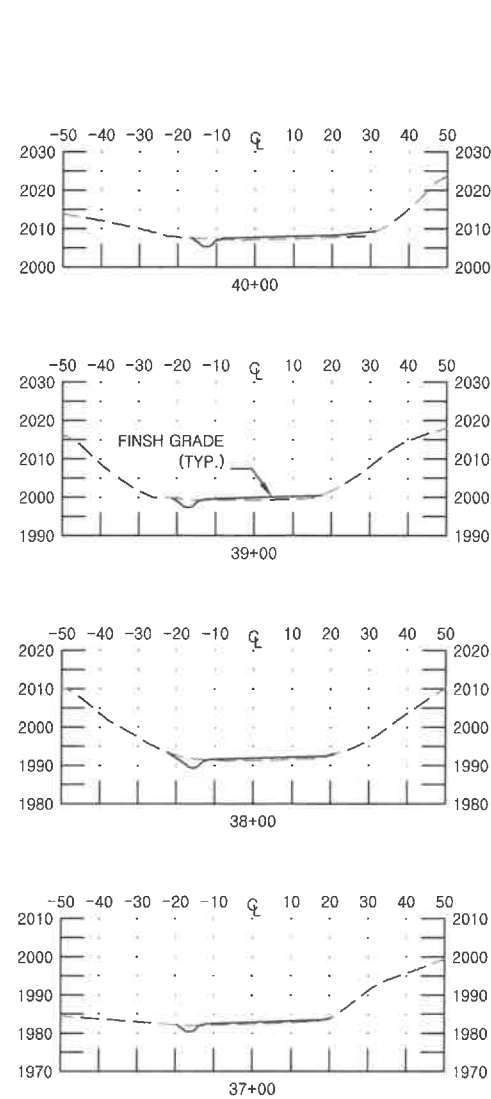
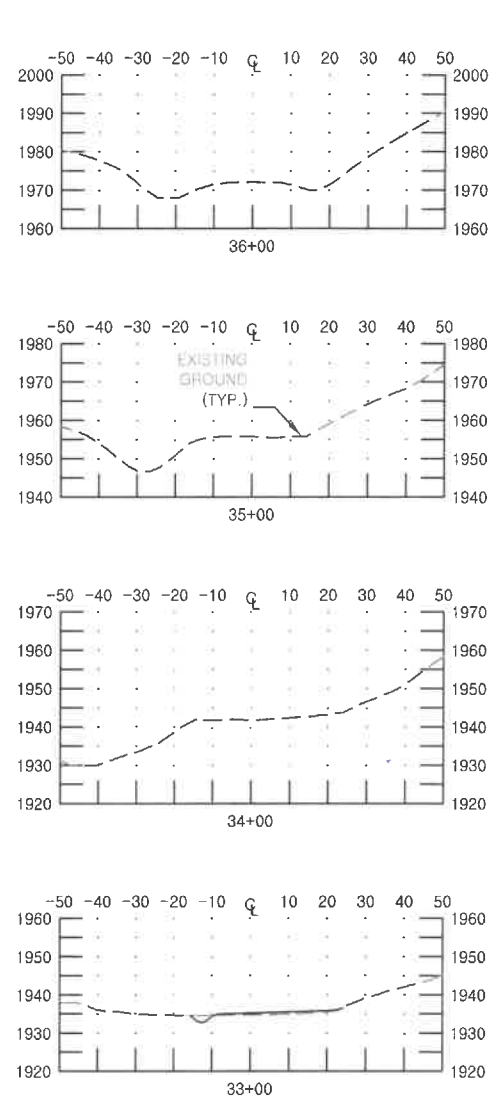
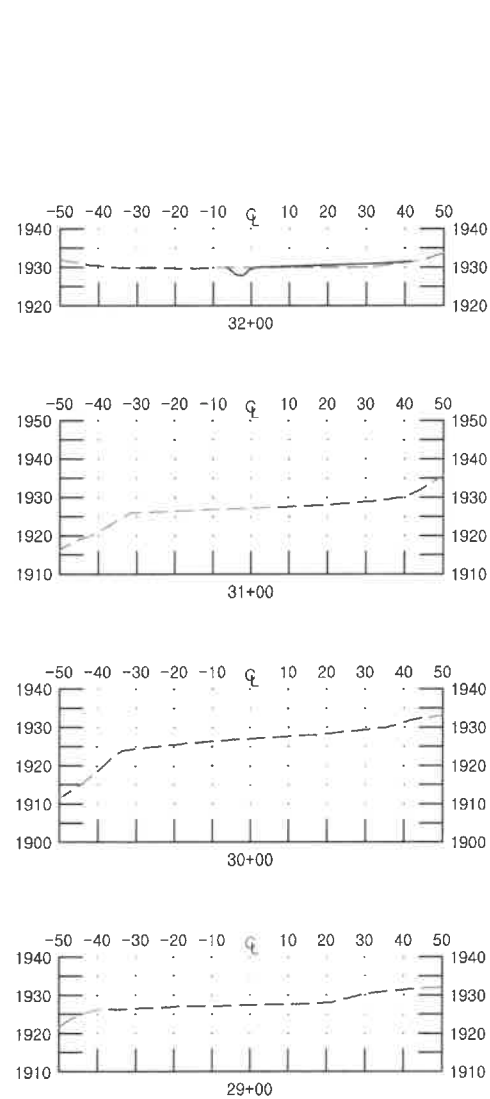
COAL CREEK TO CENTER PIT  
ROAD RESTORATION  
PROJECT No. 52959-7

ROAD CROSS SECTIONS  
BOP TO 28+00 -- EXISTING & DESIGN



PREPARED: RDA  
DRAWN: RDA  
REVIEWED: RBM  
DATE: 03/13/2025

SHEET  
07  
OF 09 SHEETS



1 ROAD CL SECTIONS, EXISTING GROUND  
8 STATIONS 29+00 TO 44+55 / EOP

NOTES:  
1. ELEVATIONS, LINES, AND GRADES ARE APPROXIMATE.  
TOPOGRAPHY WAS GENERATED FROM LIDAR DATA ACQUIRED BY  
QUANTUM SPATIAL ON MAY 4, 2015.  
2. CLEARING LIMITS, FILL AND DITCH PLACEMENTS ARE  
APPROXIMATE. REFER TO TYPICAL SECTION 1-9 FOR DIMENSIONS.  
3. ROAD STATION ELEVATIONS ALONG EXISTING GROUND ARE  
APPROXIMATE.



STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES  
PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION  
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COAL CREEK TO CENTER PIT  
ROAD RESTORATION  
PROJECT No. 52959-7

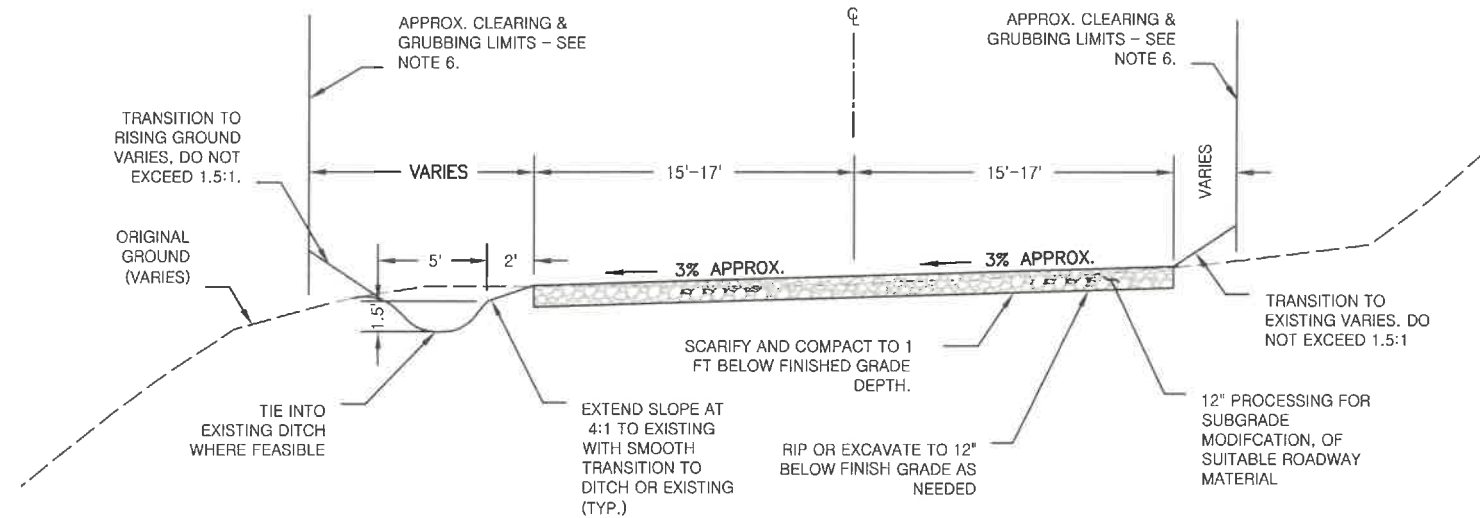
ROAD CROSS SECTIONS  
29+00 TO EOP -- EXISTING & DESIGN



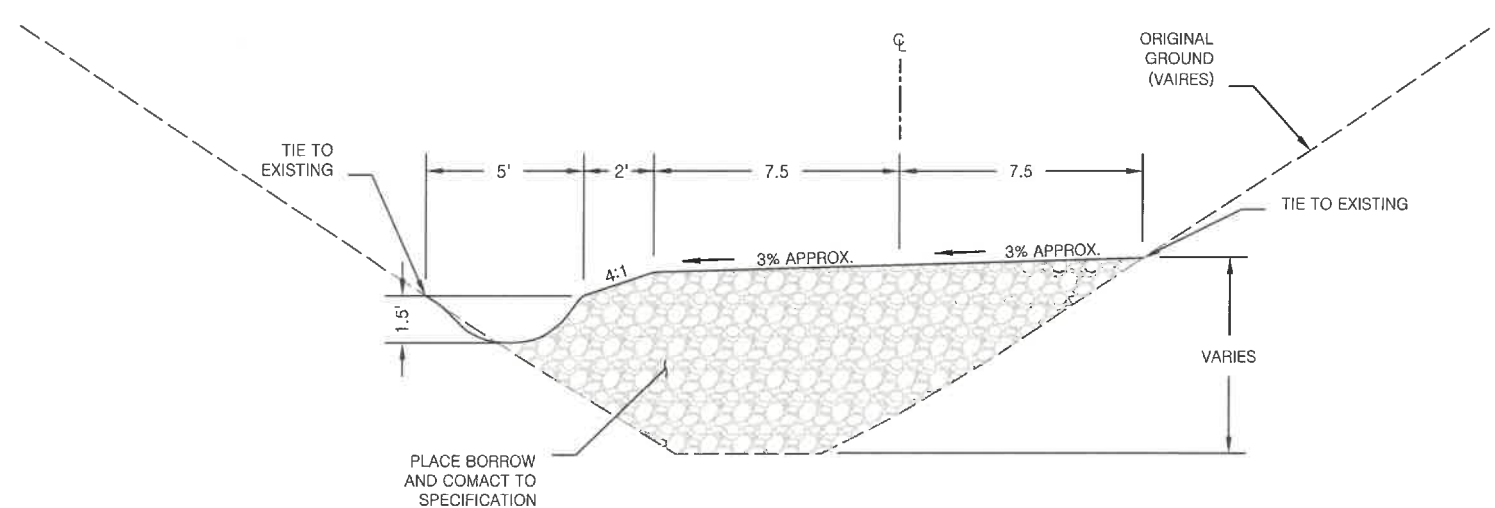
PREPARED: RDA  
DRAWN: RDA  
REVIEWED: RBM  
DATE: 03/13/2025

SHEET  
08  
OF 09 SHEETS





1  
9 TYPICAL SECTION CROSS SLOPE LEFT  
NO DITCH STATIONS 10+40 TO 19+15, 20+60 TO 31+50 AND 33+30 TO 36+25. DITCH TYPICAL SHOWN FOR CALLOUTS ELSEWHERE



2  
9 TYPICAL FILL SECTION  
REFER TO NOTE 13 FOR TRANSITIONS AND GRADES

NOTES:

- CLEAR & GRUB TO TEMPLATE. REGRADE ROADWAY AND SHOULDER TRANSITIONS TO ENSURE POSITIVE DRAINAGE. EXTEND CLEARING AND GRADING LIMITS WHERE NEEDED TO ENSURE POSITIVE DRAINAGE AND TIE INTO EXISTING.
- BLEND EXISTING PULVERIZED MATERIAL TO SLOPES SHOWN. REFER TO SECTION 302-3.01 OF THE SPECIAL PROVISIONS.
- CLEAN OUT OR CONSTRUCT DITCHES WHERE CALLED OUT FOR POSITIVE DRAINAGE OFF ROAD PRISM--SEE DITCH CALLOUT LISTING ON THIS SHEET.
- DIRECT DITCH FLOW, GRADE, AND PROFILE TO SELECT LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE SUBSIDIARY TO SUBGRADE MODIFICATION.
- DIRECT DRAINAGE AWAY FROM ROADWAY AT INTERVALS WITH SPILLOUT DITCHES AS CALLED OUT. ADDITIONAL SPILLOUT DITCHES MAY BE NEEDED, PER APPROVAL OF THE ENGINEER.

- PROTECT IN PLACE ALL ESTABLISHED DITCH AND DRAINAGE FEATURES THAT PARALLEL ACCESS ROAD, UNLESS OTHERWISE APPROVED BY THE ENGINEER. DEEPEN EXISTING DITCHES AS NEEDED FOR CONFORMANCE TO DESIGN DIMENSIONS.
- MODIFY ROAD TEMPLATE WHERE WARRANTED TO OPTIMIZE ROADWAY WIDTH AND POSITIVE DRAINAGE. ALTER DESIGN ALIGNMENT AS NEEDED TO MAINTAIN 2 FEET CLEARANCE BETWEEN EDGE OF ROAD PRISM AND DITCH.
- OFFSET EXCAVATION LIMITS AS REQUIRED TO AVOID UNDERCUTTING BANKS UPSLOPE OF ACCESS ROAD, PER APPROVAL OF THE ENGINEER
- ANY ADDITIONAL MATERIAL REQUIRED FOR FILL AFTER PROCESSING FOR SUBGRADE MODIFICATION IS COMPLETE, MUST MEET THE REQUIREMENTS OF SELECTED MATERIAL, TYPE A.
- TRANSITION FROM NARROW ROAD EDGES OR DITCHES TO EXISTING AT 2:1 TO 1.5:1.

- AVOID PLACING BERMS DOWNHILL OF ROAD. KEEP DOWNHILL SLOPES OPEN TO PERMIT DRAINAGE AWAY FROM ROADS.
- FILL LOW SPOTS IN ROAD GRADE FROM APPROXIMATELY 13+70 TO 15+50, 19+15 TO 20+15, AND 26+70 TO 27+70 TO ENSURE POSITIVE DRAINAGE OFF ROAD PRISM.
- THE ROADWAY TRANSITIONS TO A 15 FOOT TEMPLATE WIDTH TOWARD THE END OF THE PROJECT. BEGIN TRANSITION AT APPROXIMATELY 42+20; TRANSITION OUT FROM 44+10 TO EOP. DO NOT EXCEED 16% GRADE ALONG CENTERLINE.

DITCH CALLOUTS

|                     |                                                  |
|---------------------|--------------------------------------------------|
| DITCH LEFT          | 19+15 TO 20+60<br>31+50 TO 33+30<br>36+25 TO EOP |
| SPILLOUT DITCH LEFT | 19+15<br>31+50<br>36+25                          |



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ACCESS IMPROVEMENTS  
TYPICAL SECTIONS & DITCH CALLOUTS



PREPARED: RDA  
DRAWN: RDA  
REVIEWED: RBM  
DATE: 02/11/2025

SHEET

09

OF 09 SHEETS