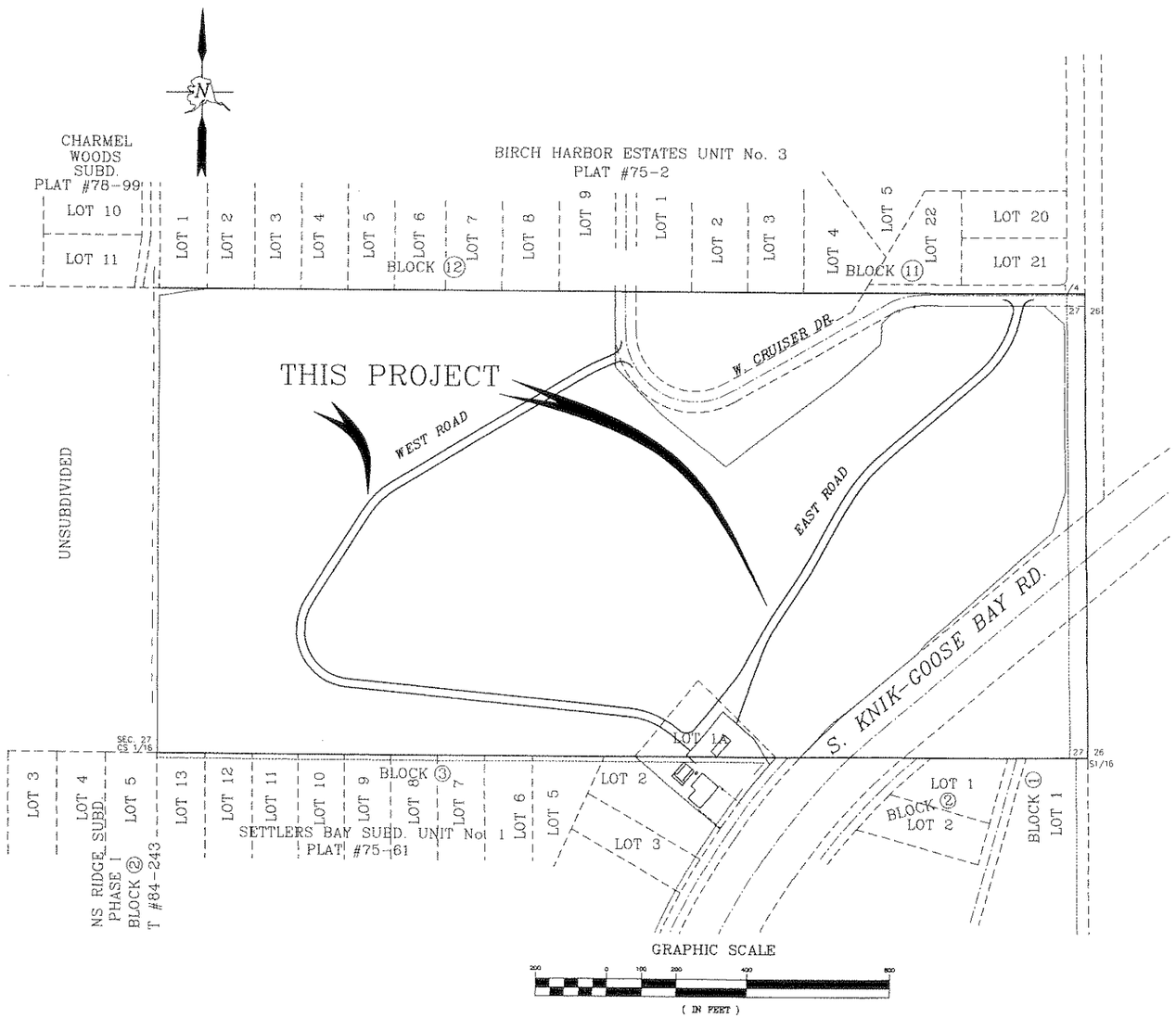
MATANUSKA-SUSITNA BOROUGH

CENTRAL MAT-SU EMERGENCY SERVICES TRAINING COMPLEX

PROJECT NO. 45101



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PROJECT SUMMARY		
SECTION	LENGTH (FT.)	WIDTH (FT.)
WEST ROAD	2,506.00	24
EAST ROAD	1,493.50	24

Designed & Prepared By:

Alaska Rim Engineering, Inc.

Engineers-Planners-Surveyors

PROJECT NUMBER	SHEET	TOTAL
45101	C1	19

LEGEND

- FOUND MONUMENT IN CASE
- RECOVERED 2 1/2" GLO BRASS CAP
- RECOVERED MONUMENT (AS DESCRIBED)
- RECOVERED 5/8" REBAR w/RPC (AS DESCRIBED)
- RECOVERED 2 1/2" ALUMINUM PIPE (CAP MISSING)
- RECOVERED 5/8" REBAR
- RECOVERED BEARING TREES
- POWER POLE
- UTILITY PEDESTAL
- OHE — OVERHEAD UTILITIES
- TP — TEST PIT
- M — MAIL BOXES
- W — WELL
- CATCH BASIN
- LUMINARY
- SIGN
- GUY ANCHOR
- T — PHONE PEDESTAL
- E — ELECTRIC PEDESTAL
- P E — ELECTRIC VAULT
- S — SEWER MANHOLE
- D — STORM DRAIN MANHOLE
- MH — MANHOLE (ORIGIN UNKNOWN)
- FIRE HYDRANT
- WV — WATER KEY BOX
- DRAINAGE ARROW
- X — FENCE
- UT — UNDERGROUND TELEPHONE LINE
- UGU — UNDERGROUND UTILITIES
- UGC — UNDERGROUND CABLE
- UFO — UNDERGROUND FIBER OPTIC CABLE
- G — GAS LINE
- EXISTING GROUND CONTOUR
- DAYLIGHT CUT
- DAYLIGHT FILL

ABBREVIATIONS

AC	ASPHALT CONCRETE
AKDOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION
AL CAP	ALUMINUM CAP
BLDG	BUILDING
BOP	BEGINNING OF PROJECT
BM	BRASS MONUMENT
CRNR	CORNER
CMP	CORRUGATED METAL PIPE
C.O.	CLEAN OUT
DIA.	DIAMETER
D.I.P.	DUCTILE IRON PIPE
E	EAST
EA.	EACH
ELEV.	ELEVATION
EOP	END OF PROJECT
ESMT.	EASEMENT
EXIST.	EXISTING
FF	FINISH FLOOR
TP	FINISH GRADE
GAL.	GALLON
GV/VB	GATE VALVE/VALVE BOX
HORZ.	HORIZONTAL
INV.	INVERT
L	LENGTH
L.F.	LINEAR FEET
MBW	MODULAR BLOCK WALL
MAX.	MAXIMUM
MIN.	MINIMUM
MSB	MATANUSKA-SUSITNA BOROUGH
N	NORTH
NAT'L	NATURAL
N.T.S.	NOT TO SCALE
NIC	NOT IN CONTRACT
ohp	OVERHEAD POWER
PI	POINT OF INTERSECTION
PSS	PRESSURIZED SANITARY SEWER
R	RADIUS
RMV	REMOVE
S	SOUTH
SHT.	SHEET
SS	SANITARY SEWER
STA.	STATION
SVC	SERVICE
TAKES	EASEMENT ACQUISITION
TC	TOP CONCRETE
TH	TEST HOLE
TP	TOP OF PAVEMENT
TSW	TOP OF SIDEWALK
TYP.	TYPICAL
U.G.	UNDERGROUND
VERT.	VERTICAL
w/	WITH
W	WEST
WV	WATER VALVE
YPC	YELLOW PLASTIC CAP

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT AKDOT&PF STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION 2004 EDITION AND MATANUSKA-SUSITNA BOROUGH SUBDIVISION CONSTRUCTION MANUAL.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY AND SAFETY COMPLIANCE.
3. EXISTING UTILITY LOCATIONS SHOWN ON THE DRAWINGS SHALL BE CONSIDERED APPROXIMATE AND NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL OBTAIN UTILITY LOCATES AT LEAST 24 HOURS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO VERIFY EXACT LOCATIONS OF ALL BURIED UTILITIES. PROTECT AND RESTORE ALL UTILITIES TO THE UTILITY OWNERS SATISFACTION.
4. EXISTING ELECTRIC, CABLE TELEVISION, TELEPHONE, STREET LIGHT AND GAS LINES IN THE RIGHT-OF- WAY MAY REQUIRE CONTINUOUS SUPPORT AND/OR RELOCATION DURING EXCAVATION AND BACKFILLING OPERATIONS. THE CONTRACTOR SHALL COORDINATE WORK WITH EACH UTILITY COMPANY.
5. ALL EXISTING SIGNS SHALL BE PROTECTED AND RESTORED, OR REPLACED, AT THE CONTRACTORS EXPENSE, TO THE SATISFACTION OF THE ENGINEER.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO DISTURBING ANY SURVEY MONUMENTS. PROPERTY CORNERS AND R.O.W. MONUMENTS DAMAGED OR LOST DUE TO THE CONSTRUCTION ACTIVITY OF THE CONTRACTOR, SHALL BE REPLACED PER SECTION 642 BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
7. UNCLASSIFIED UNUSABLE EXCAVATION MAY BE USED FOR SLOPE FLATTENING ON THE BACK SLOPES AND FORE SLOPES FROM BOTTOM OF THE CLASSIFIED TYPE A.
8. REMOVE ALL ORGANIC AND SILT OVERBURDEN SOILS IN ALL EXCAVATION AREAS AND IN EMBANKMENT AREAS TO A DEPTH OF 4 FEET BELOW FINISH GRADE OR AS DIRECTED BY THE ENGINEER. FILLS GREATER THAN 2 FEET IN THICKNESS MAY BE PLACE DIRECTLY OVER THE EXISTING GROUND. STRIP ALL ORGANICS FROM SLOPES PRIOR TO BENCHING FOR EMBANKMENT. ORGANIC AND SILT OVERBURDEN SOILS THAT ARE SUITABLE FOR TOPSOIL SHALL BE STOCKPILED IN LOCATIONS APPROVED BY THE ENGINEER AND USED AS TOPSOIL FOR SEEDING.
9. CULVERT LENGTHS, LOCATION AND SKEW ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
10. THE EXCESS USABLE EXCAVATION SHALL BE PLACED ON SITE AT DESIGNATED AREAS APPROVED BY ENGINEER.
11. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO DISTURBING ANY SURVEY MONUMENTS.

GENERAL UTILITY NOTES:

1) THE LOCATION OF EXISTING FEATURES, SERVICE LINES, UTILITIES, ETC. IN THE DRAWING ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FIELD VERIFICATION OF ALL BURIED AND OVER HEAD UTILITIES FROM THE APPROPRIATE UTILITY COMPANIES AUTHORITIES.

2) ALL CONSTRUCTION OF WATER LINES SHALL BE INSPECTED BY THE PROFESSIONAL ENGINEER PRIOR TO BACKFILLING. CONTRACTOR SHALL COORDINATE WITH PROFESSIONAL ENGINEER IN OBTAINING INSPECTIONS.

3) CONTRACTOR SHALL PROVIDE RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS.

4) CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL ENCOUNTERED UTILITIES IN THE FIELD, AND RECORD ANY CHANGES ON CONTRACTOR RECORD DRAWINGS.

5) MAINTAIN MINIMUM OF TEN (10) FEET HORIZONTAL AND 18-INCH VERTICAL SEPARATION BETWEEN WATER AND SEWER MAINS AND SERVICES.

6) STATIONS ARE ALONG CENTERLINE OF ROAD.

7) ALL WATER LINES SHALL BE BORE FLUSHED, CHLORINATED, AND PRESSURE TESTED.

8) ALL PIPE CHANGES OF DIRECTION, TEES, AND PIPE ENDS SHALL HAVE POURED IN PLACE CONCRETE THRUST BLOCKS POURED AGAINST COMPACTED SOIL AT 95% OF MAX. DRY DENSITY.

9) CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO EXISTING CONDITION.

10) ALL WATER MAINS SHALL BE DIP PIPE. NO PIPE LENGTH LESS THAN EIGHT (8) FEET SHALL BE INCORPORATED IN THE SYSTEM EXCEPT THOSE NECESSARY FOR FIRE HYDRANTS OR VALVE LOCATIONS.

11) LOCATE FIRE HYDRANTS AND GUARD POSTS PER TYPICAL DETAIL 4 SHEET C3.

STATE OF ALASKA 49TH
Harry R. J. Bates
CE 8697
REGISTERED PROFESSIONAL ENGINEER

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS-PLANNERS-SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT-SU EMERGENCY SERVICES TRAINING COMPLEX GENERAL NOTES, LEGEND & ABBREVIATIONS

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
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ESTIMATE OF QUANTITIES FOR WEST ROAD

ITEM NO.	PAY ITEM	PAY UNIT	TOTAL QUANTITY
201(2A)	GRUBBING	ACRE	2.5
201(3A)	CLEARING AND GRUBBING	ACRE	5.5
203(3)	UNCLASSIFIED EXCAVATION	CY	18,000
203(6A)	BORROW, SELECTED MATERIAL TYPE A	TON	8,004
203(6B)	BORROW, SELECTED 3" MINUS, TYPE B	TON	2,138
603(1-24)	24" CORRUGATED STEEL PIPE	LF	48
603(1-24)	END SECTIONS FOR 24" CSP	EA	2
603(1-36)	36" CORRUGATED STEEL PIPE	LF	66
603(3-36)	END SECTIONS FOR 36" CSP	EA	2
607(4)	RELOCATE EXIST. 16' GATE AND RECONSTRUCT FENCE	EA	1
607(5)	INSTALL NEW 16' CANTILEVER ROLL-GATE	EA	1
607(5)	REPAIR CHAIN LINK FENCE	LF	12
615(1)	STANDARD SIGNS	SF	4
618	SEEDING	ACRE	2.2
620	TOP SOIL	SQ YD	10,648
627(1-10)	10" DUCTILE IRON WATER CONDUIT, CLASS 52	LF	2,658
627(5)	FIRE HYDRANT INSTALLATION	EA	7
627(9-10)	INSTALL 10" GATE VALVE, VALVE BOX	EA	6
628(1-8)	FURNISH 8-INCH WELL CASING	LF	200
628(2-8)	DRILL 8-INCH WELL CASING	LS	ALL REQUIRED
628(3)	WELL SCREEN	LF	10
633	SILT FENCE	LF	2,660
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(3)	TEMPORARY EROSION AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQUIRED
647(1)	WIDE PAD DOZER	CONTINGENT SUM	ALL REQUIRED
647(5)	BACKHOE	CONTINGENT SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES FOR EAST ROAD

ITEM NO.	PAY ITEM	PAY UNIT	TOTAL QUANTITY
201(3A)	CLEARING AND GRUBBING	ACRE	3.0
203(3)	UNCLASSIFIED EXCAVATION	CY	3,500
203(6A)	BORROW, SELECTED MATERIAL TYPE A	TON	5,558
203(6B)	BORROW, SELECTED 3" MINUS, TYPE B	TON	1,541
603(1-24)	24" CORRUGATED STEEL PIPE	LF	42
603(3-24)	END SECTIONS FOR 24" CSP	EA	2
607(4)	RELOCATE EXIST. 16' GATE AND RECONSTRUCT FENCE	EA	1
607(5)	INSTALL NEW 16' CANTILEVER ROLL-GATE	EA	1
615(1)	STANDARD SIGNS	SF	4
618	SEEDING	ACRE	1
620	TOP SOIL	SQ YD	4,840
627(1-10)	10" DUCTILE IRON WATER CONDUIT CLASS 52	LF	1,610
627(5)	FIRE HYDRANT INSTALLATION	EA	3
627(9-10)	INSTALL 10" GATE VALVE, VALVE BOX	EA	4
633	SILT FENCE	LF	1,600

ESTIMATE OF QUANTITIES FOR W. CRUISER DR. 10" WATER LINE

ITEM NO.	PAY ITEM	PAY UNIT	TOTAL QUANTITY
627(1-10)	10" DUCTILE IRON WATER CONDUIT CLASS 52	LF	1,250
627(5)	FIRE HYDRANT INSTALLATION	EA	1
633	SILT FENCE	LF	1,250

ESTIMATE OF QUANTITIES FOR CLEARING & GRUBBING

ITEM NO.	PAY ITEM	PAY UNIT	TOTAL QUANTITY
201(3A)	CLEARING & GRUBBING FOR FUTURE DEVELOPMENT	ACRE	1

STATE OF ALASKA 49TH
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CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
ESTIMATE OF QUANTITIES

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: QUANTITIES	FILE: 0700142_PP

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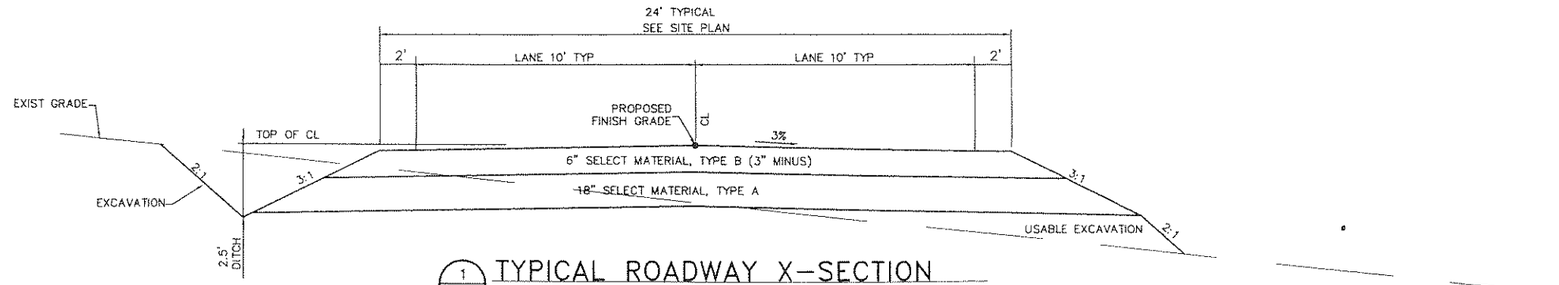
PROJECT NUMBER	SHEET	TOTAL
45101	C3	19

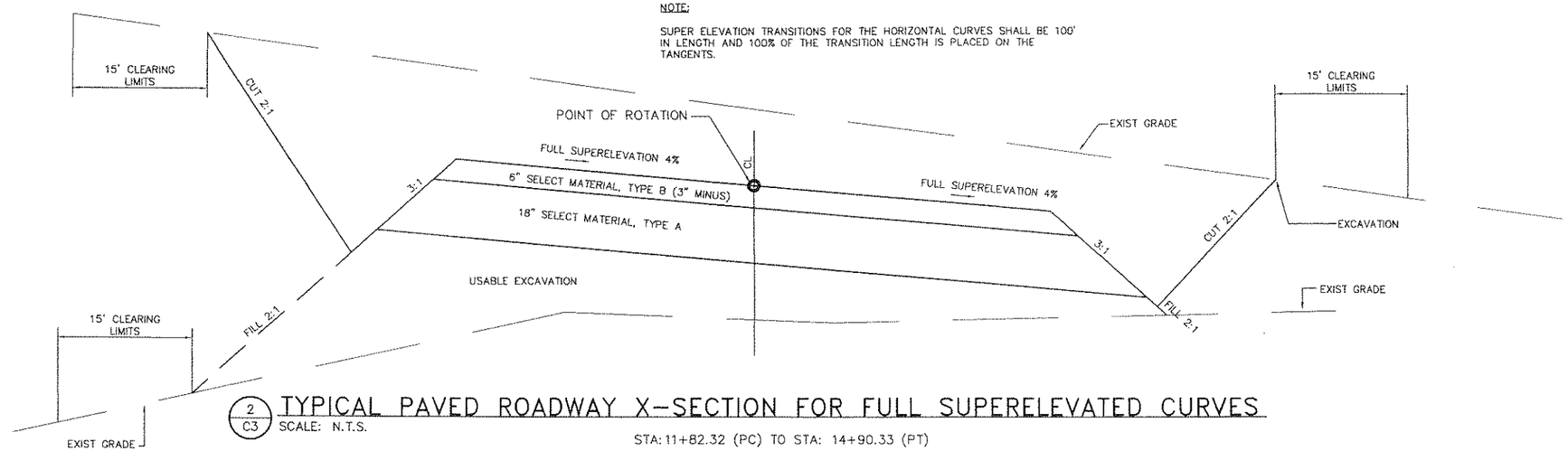


1/C3 TYPICAL ROADWAY X-SECTION

SCALE: N.T.S.

NOTE:

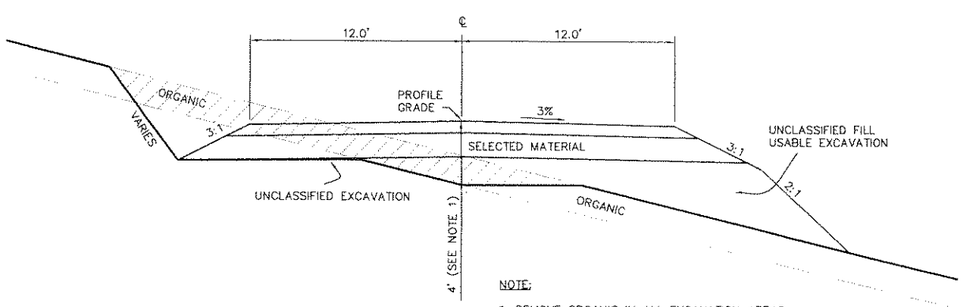
SUPER ELEVATION TRANSITIONS FOR THE HORIZONTAL CURVES SHALL BE 100' IN LENGTH AND 100% OF THE TRANSITION LENGTH IS PLACED ON THE TANGENTS.



2/C3 TYPICAL PAVED ROADWAY X-SECTION FOR FULL SUPERELEVATED CURVES

SCALE: N.T.S.

STA: 11+82.32 (PC) TO STA: 14+90.33 (PT)

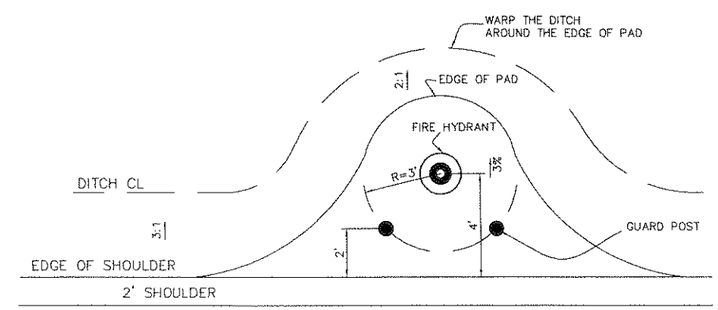


NOTE:

1. REMOVE ORGANIC IN ALL EXCAVATION AREAS AND IN EMBANKMENT AREAS TO A DEPTH OF 4 FEET BELOW FINISH GRADE.

3/C3 TYPICAL CUT & FILL TRANSITIONS DETAIL

SCALE: N.T.S.



4/C3 FIRE HYDRANT AND GUARD POSTS LOCATION

SCALE: N.T.S.

STATE OF ALASKA 49TH
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CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
TYPICAL DETAILS

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
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PROJECT NUMBER	SHEET	TOTAL
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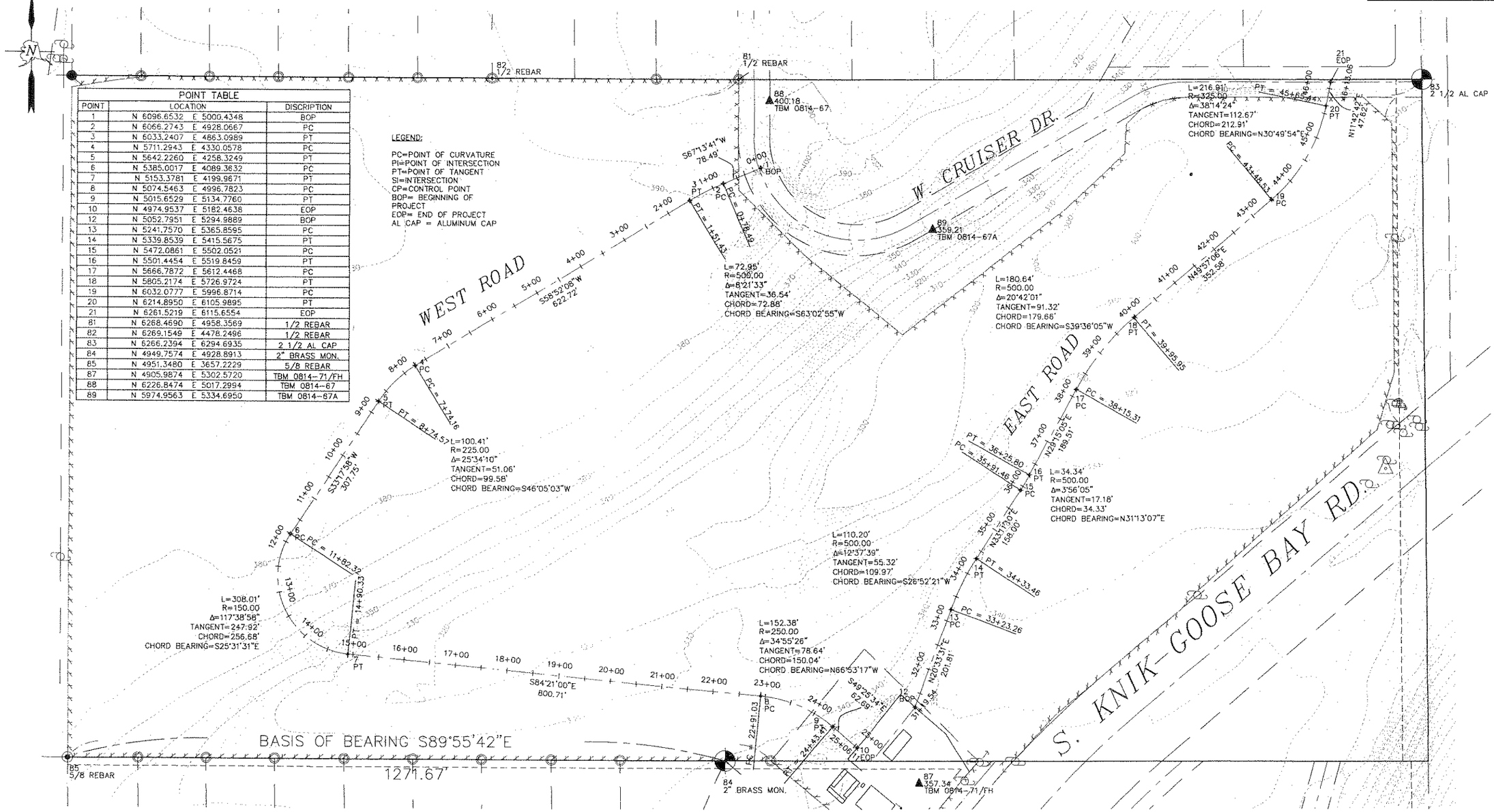

POINT TABLE

POINT	LOCATION		DISCRIPTION
1	N 6096.6532	E 5000.4348	BOP
2	N 6066.2743	E 4928.0667	PC
3	N 6033.2407	E 4863.0989	PT
4	N 5711.2943	E 4330.0578	PC
5	N 5642.2260	E 4258.3249	PT
6	N 5385.0017	E 4089.3632	PC
7	N 5153.3781	E 4199.9671	PT
8	N 5074.5463	E 4996.7823	PC
9	N 5015.6529	E 5134.7760	PT
10	N 4974.9537	E 5182.4638	EOP
12	N 5052.7951	E 5294.9889	BOP
13	N 5241.7570	E 5365.8595	PC
14	N 5339.8539	E 5415.5675	PT
15	N 5472.0861	E 5502.0521	PC
16	N 5501.4454	E 5519.8459	PT
17	N 5666.7872	E 5612.4468	PC
18	N 5805.2174	E 5726.9724	PT
19	N 6032.0777	E 5996.8714	PC
20	N 6214.8950	E 6105.9895	PT
21	N 6261.5219	E 6115.6554	EOP
81	N 6268.4690	E 4958.3569	1/2 REBAR
82	N 6269.1549	E 4478.2496	1/2 REBAR
83	N 6266.2394	E 6294.6935	2 1/2 AL CAP
84	N 4949.7574	E 4928.8913	2" BRASS MON.
85	N 4951.3480	E 3657.2229	5/8 REBAR
87	N 4905.9874	E 5302.5720	TBM 0814-71/FH
88	N 6226.8474	E 5017.2994	TBM 0814-67
89	N 5974.9563	E 5334.6950	TBM 0814-67A

LEGEND:

PC=POINT OF CURVATURE
PI=POINT OF INTERSECTION
PT=POINT OF TANGENT
SI=INTERSECTION
CP=CONTROL POINT
BOP= BEGINNING OF PROJECT
EOP= END OF PROJECT
AL CAP = ALUMINUM CAP

SURVEY CONTROL:

HORIZONTAL CONTROL:

BASIS OF COORDINATES:

POINT #84 2" BRASS MONUMENT
POINT #85 5/8 REBAR

BASIS OF BEARING: S89°55'42"E 1271.67'

VERTICAL CONTROL:

BENCH MARKS: POINT #87 TBM 0814-71/FH (FIRE HYDRANT NORTH BOLT MARKED W/"X" ELEV=357.34'
POINT #88 TBM 0814-67 (SET SPIKE 1' ABOVE GROUND NORTH SIDE OF 5" BIRCH) ELEV=400.18'
POINT #89 TBM 0814-67A (SET SPIKE 1' ABOVE GROUND 14" COTTONWOOD TREE) ELEV=359.21'

SURVEY NOTES

1. EXISTING GROUND CONTOURS ARE BASED ON ALASKA RIM ENGINEERING, INC. TOPOGRAPHIC SURVEY PERFORMED ON SEPTEMBER, 2008 AND MSB TOPO 1984. ELEVATIONS ARE BASED ON MSB BENCH MARK #5920, RECOVERED 3 ¼" ALUMINUM MONUMENT 0.2' ABOVE GROUND, PUBLISHED ELEVATION OF 259.15 ABOVE SEE LEVEL.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO DISTURBING ANY SURVEY MONUMENTS. PROPERTY CORNERS AND R.O.W. MONUMENTS DAMAGED OR LOST DUE TO THE CONSTRUCTION ACTIVITY OF THE CONTRACTOR, SHALL BE REPLACED PER SECTION 642 BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

STATE OF ALASKA 49TH Robert J. Former 10615-S REGISTERED PROFESSIONAL LAND SURVEYOR

1/14/09

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
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CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
SURVEY CONTROL

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
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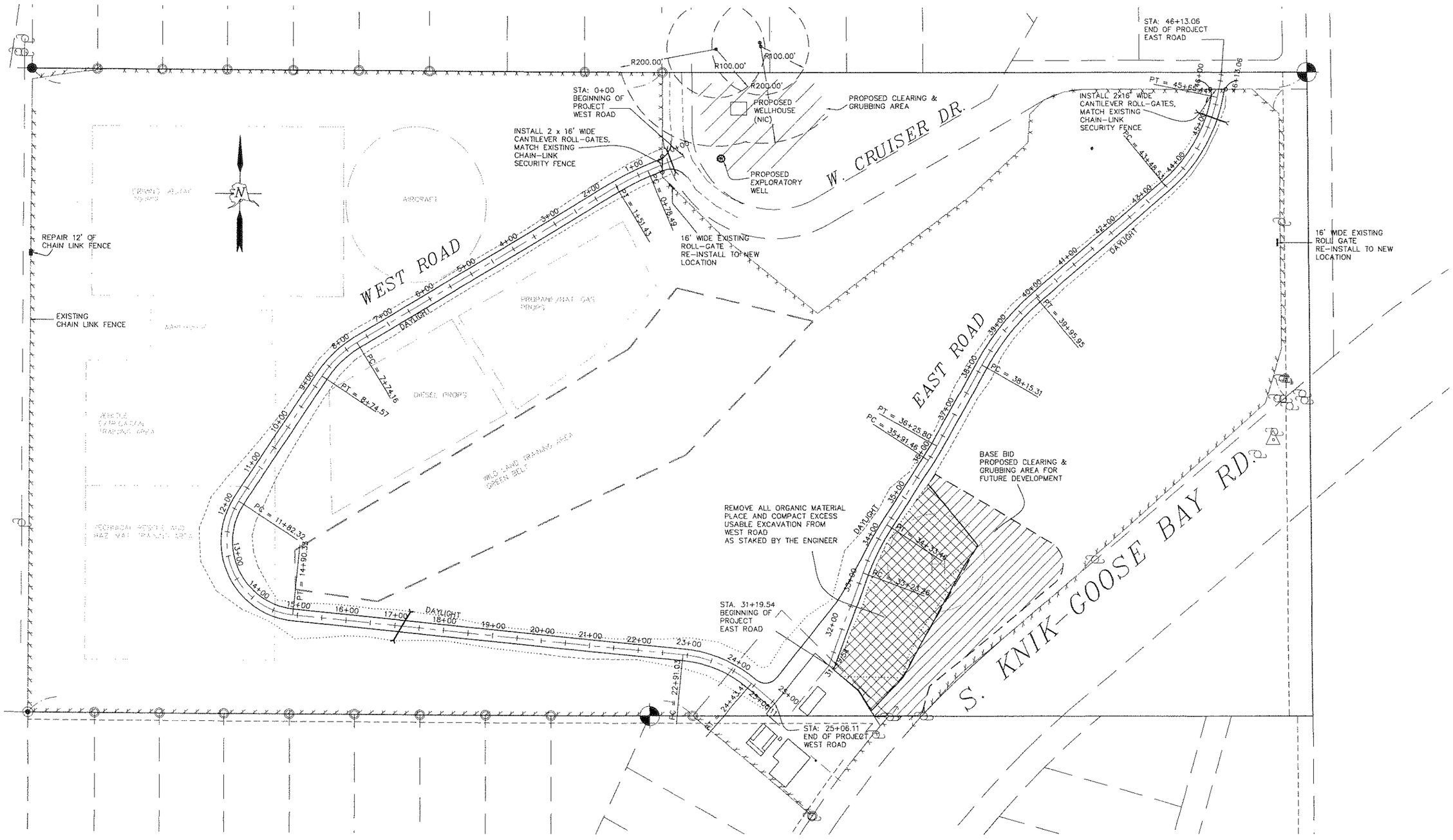
PROJECT NUMBER	SHEET	TOTAL
45101	C5	19



STATE OF ALASKA
49TH
Harry R. J. Bates
CE 8697
REGISTERED PROFESSIONAL ENGINEER

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

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ALASKA RIM ENGINEERING, INC.
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CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
SITE PLAN

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
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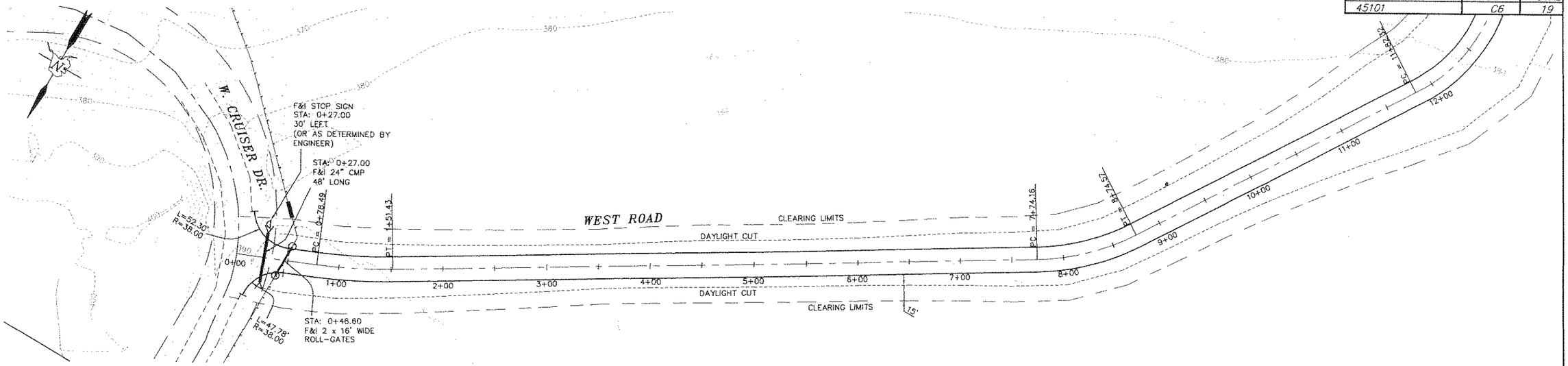
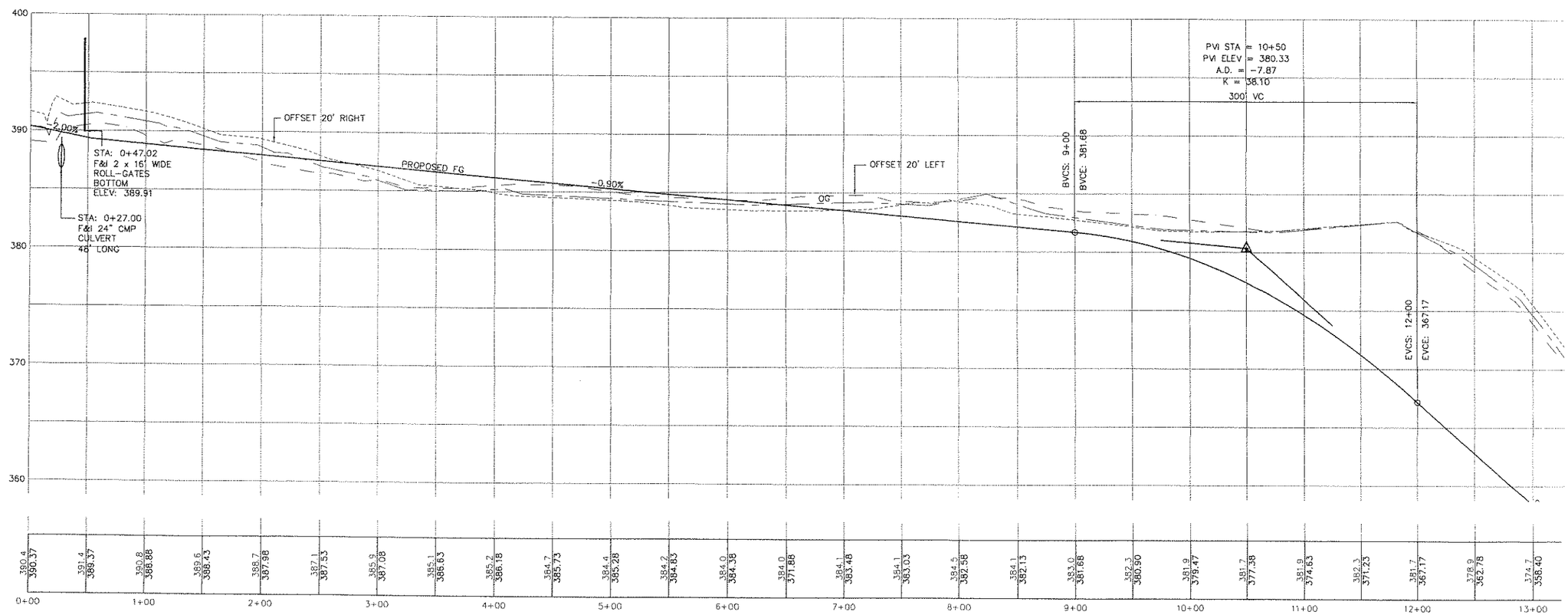
PROJECT NUMBER	SHEET	TOTAL
45101	C6	19





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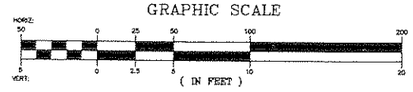

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CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
WEST ROAD
PLAN & PROFILE
STA: 0+00 TO STA: 12+50

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: WEST P&P	FILE: 0700142_PP

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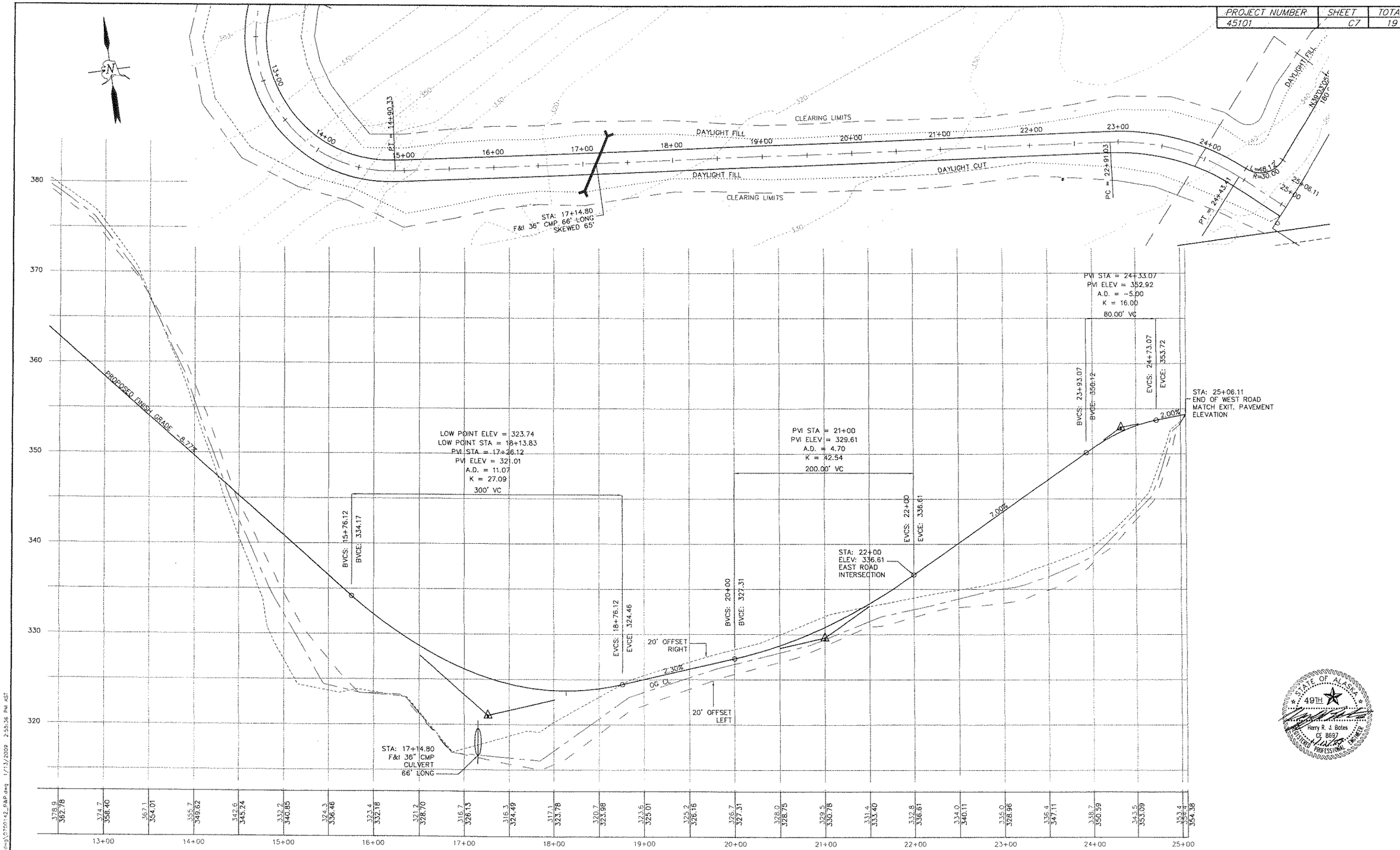
PROJECT NUMBER	SHEET	TOTAL
45101	C7	19



GRAPHIC SCALE

HORIZ: 50 0 25 50 100 200

VERT: 5 0 2.5 5 10 20

(IN FEET)

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

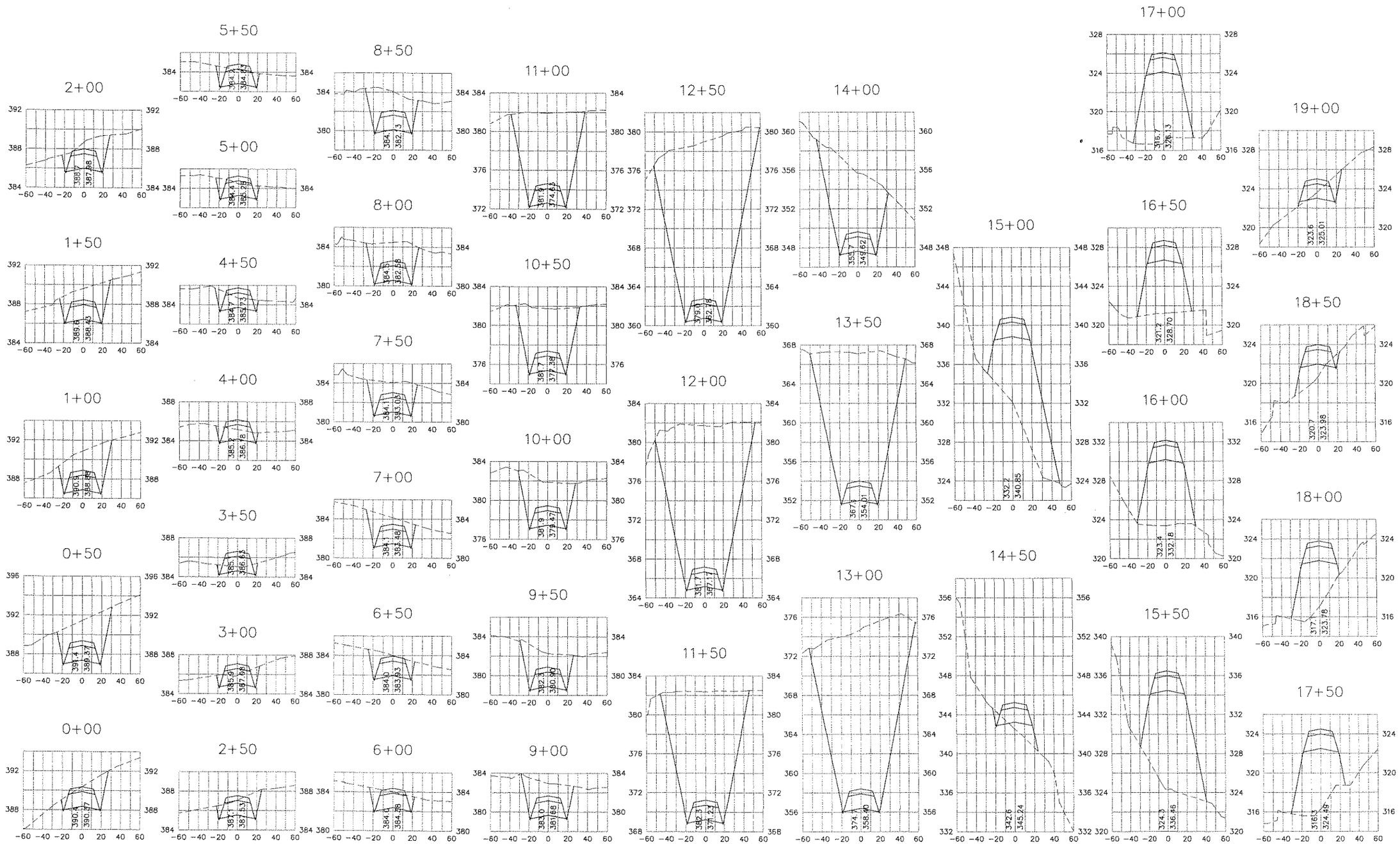
CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
WEST ROAD
PLAN & PROFILE
STA: 12+50 TO STA: 25+06.11

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: WEST P&P	FILE: 0700142_PP

STATE OF ALASKA 49TH
Harry R. J. Bates
CE 8697
REGISTERED PROFESSIONAL ENGINEER

\\Server\projects\2007\0700142\dwg\0700142_P&P.dwg 1/13/2009 2:56:36 PM AST

PROJECT NUMBER	SHEET	TOTAL
45101	C8	19



GRAPHIC SCALE

HORIZ: 50 0 25 50 25 200

VERT: 5 0 2.5 5 10 20

(IN FEET)

STATE OF ALASKA 49TH Harry R. J. Bates CE 8697 REGISTERED PROFESSIONAL ENGINEER

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
WEST ROAD
CROSS-SECTIONS
STA: 0+00 TO STA: 19+00

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: WEST XSECT	FILE: 0700142_PP

\\Server\projects\2007\0700142\dwg\0700142_P&P.dwg 1/13/2009 2:55:36 PM AST

PROJECT NUMBER	SHEET	TOTAL
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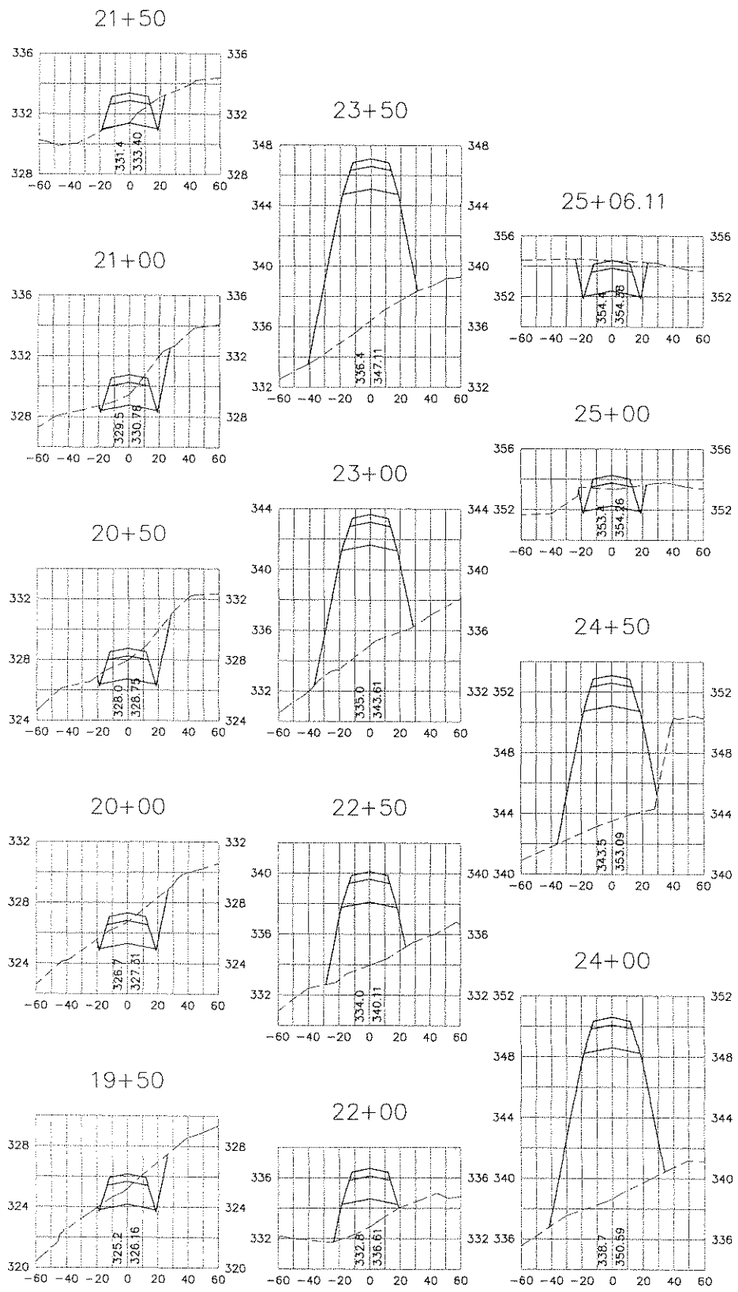
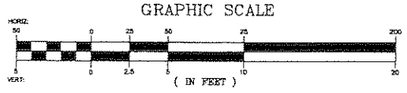


GRAPHIC SCALE



DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

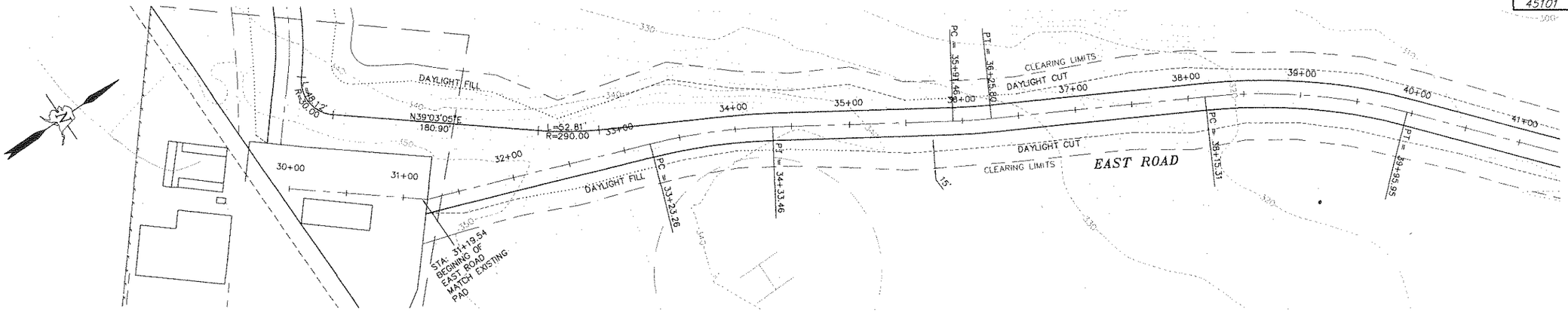
CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
WEST ROAD
CROSS-SECTIONS
STA: 19+50 TO STA: 25+06.11

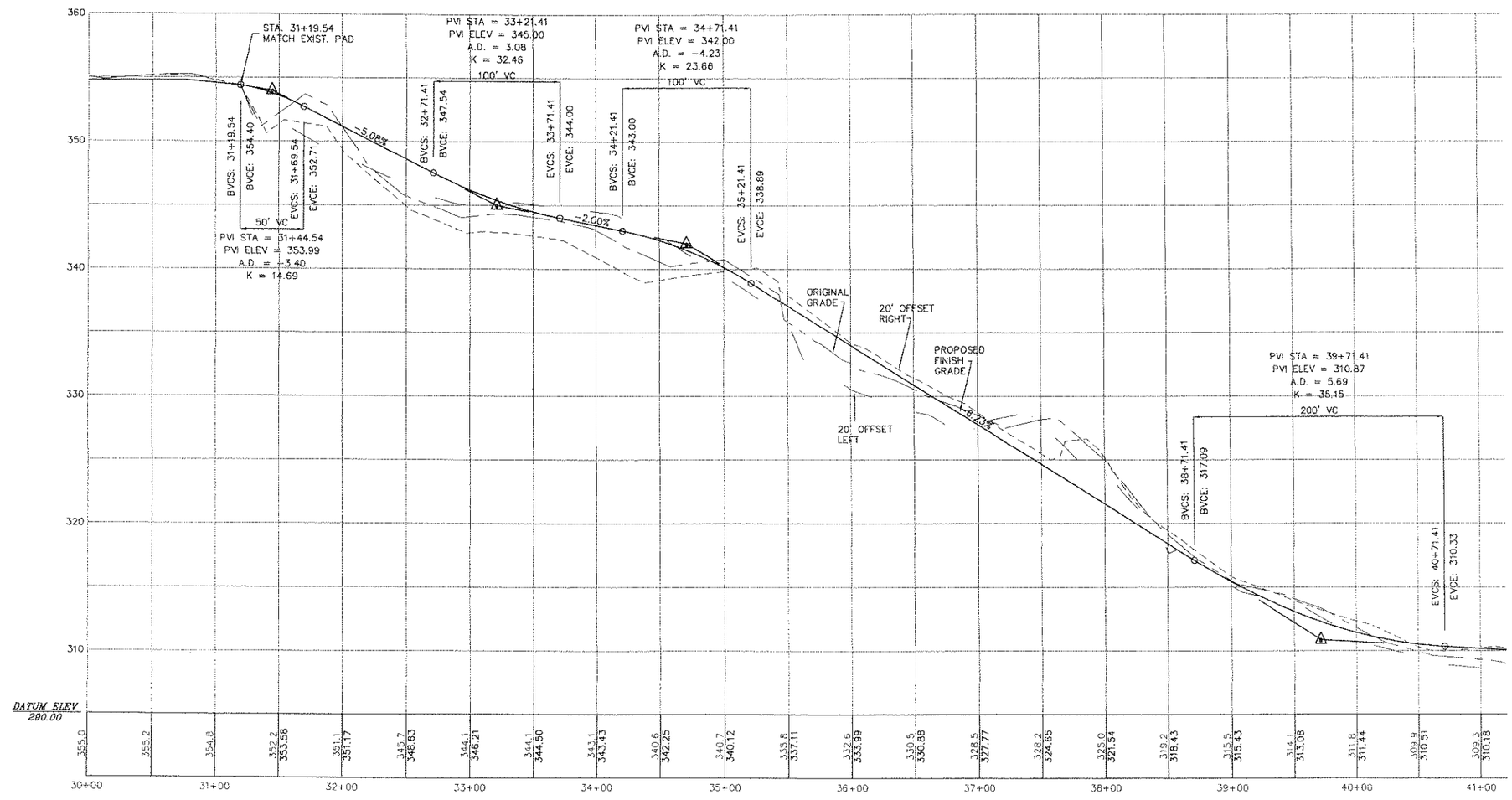
W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: WEST XSECT	FILE: 0700142_PP

STATE OF ALASKA 49TH Harry R. J. Bates CE-8697 REGISTERED PROFESSIONAL ENGINEER

\\Server\projects\0700\0700142\dwg\0700142_P&P.dwg 1/13/2009 2:55:16 PM AST

PROJECT NUMBER	SHEET	TOTAL
45101	C10	19





GRAPHIC SCALE

HORIZ: 50 0 25 50 25 200

VERT: 5 0 2.5 5 10 20

(IN FEET)

STATE OF ALASKA 49TH Harry R. J. Bates CE-8697 REGISTERED PROFESSIONAL ENGINEER

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
EAST ROAD
PLAN & PROFILE
STA: 30+00 TO STA: 41+00

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: EAST P&P	FILE: 0700142_PP

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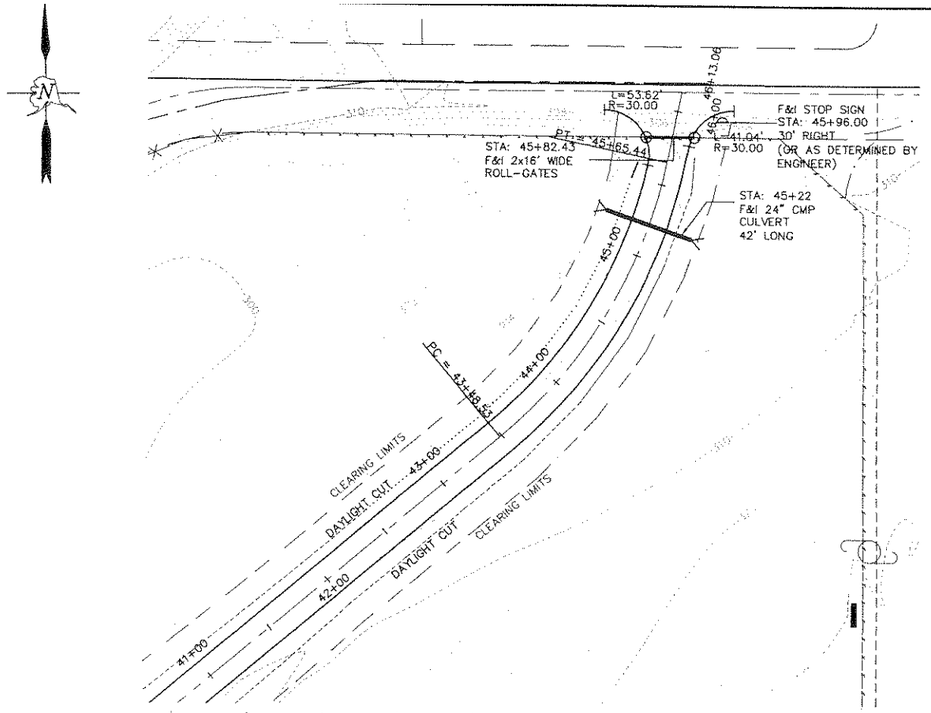
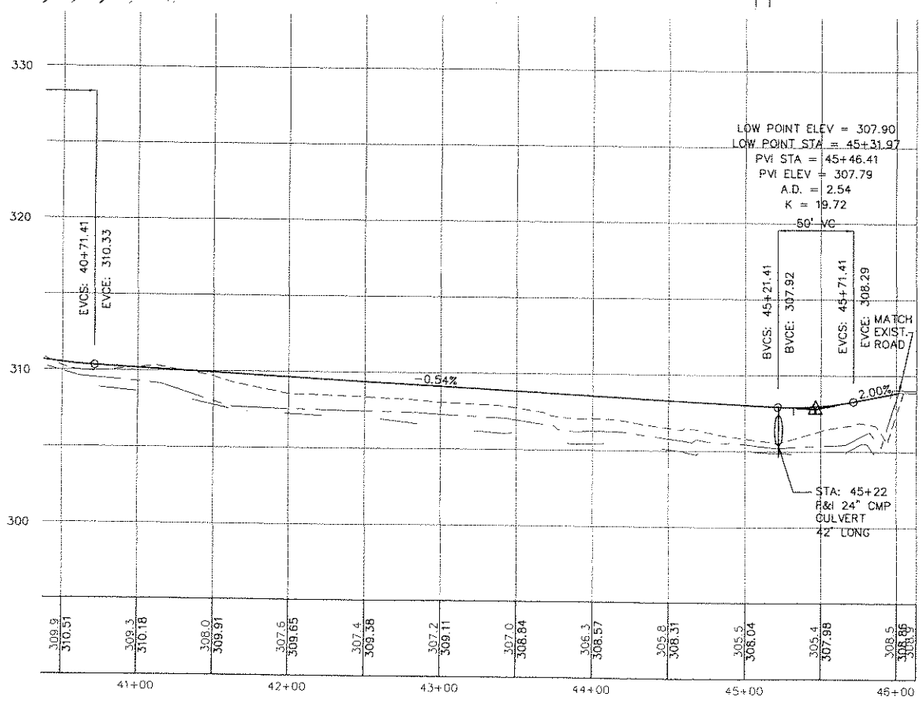
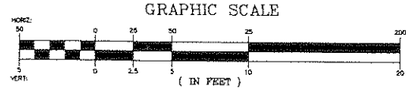
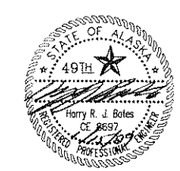
PROJECT NUMBER	SHEET	TOTAL
45101	C11	19





GRAPHIC SCALE





DATE	REVISIONS	BY

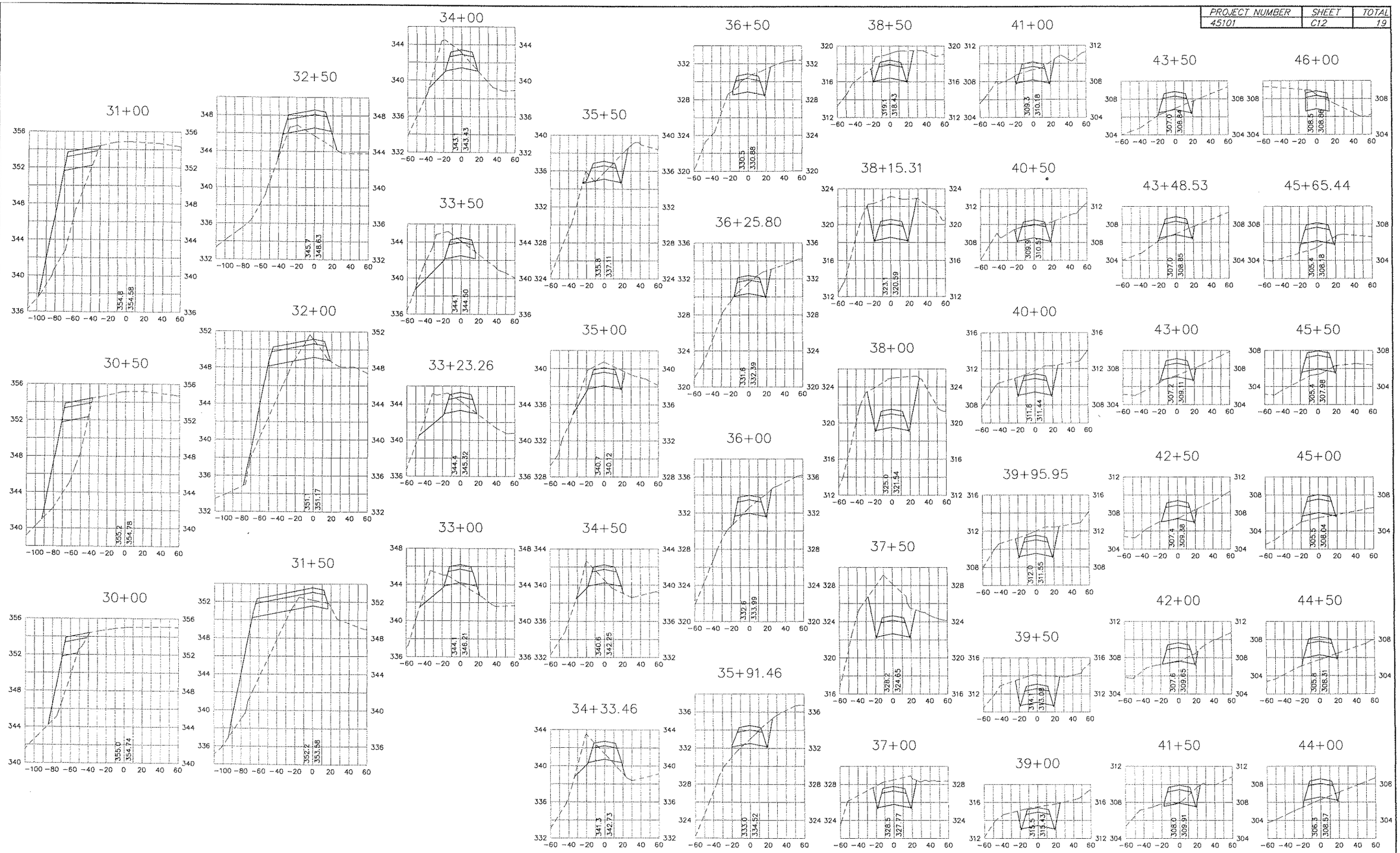
ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT–SU
EMERGENCY SERVICES TRAINING COMPLEX
EAST ROAD
PLAN & PROFILE
STA: 41+00 TO STA: 46+00

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: EAST P&P	FILE: 0700142_PP

\\Server\projects\2007\0700142\dwg\0700142_P&P.dwg 1/15/2009 2:45:09 PM AST

PROJECT NUMBER	SHEET	TOTAL
45101	C12	19



GRAPHIC SCALE

HORIZ: 50 0 25 50 100 200

VERT: 5 0 2.5 5 10 20

(IN FEET)

STATE OF ALASKA 49TH Henry R. J. Bates CE 8697 REGISTERED PROFESSIONAL ENGINEER

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
EAST ROAD
CROSS-SECTIONS

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: EAST XSECT	FILE: 0700142_PP

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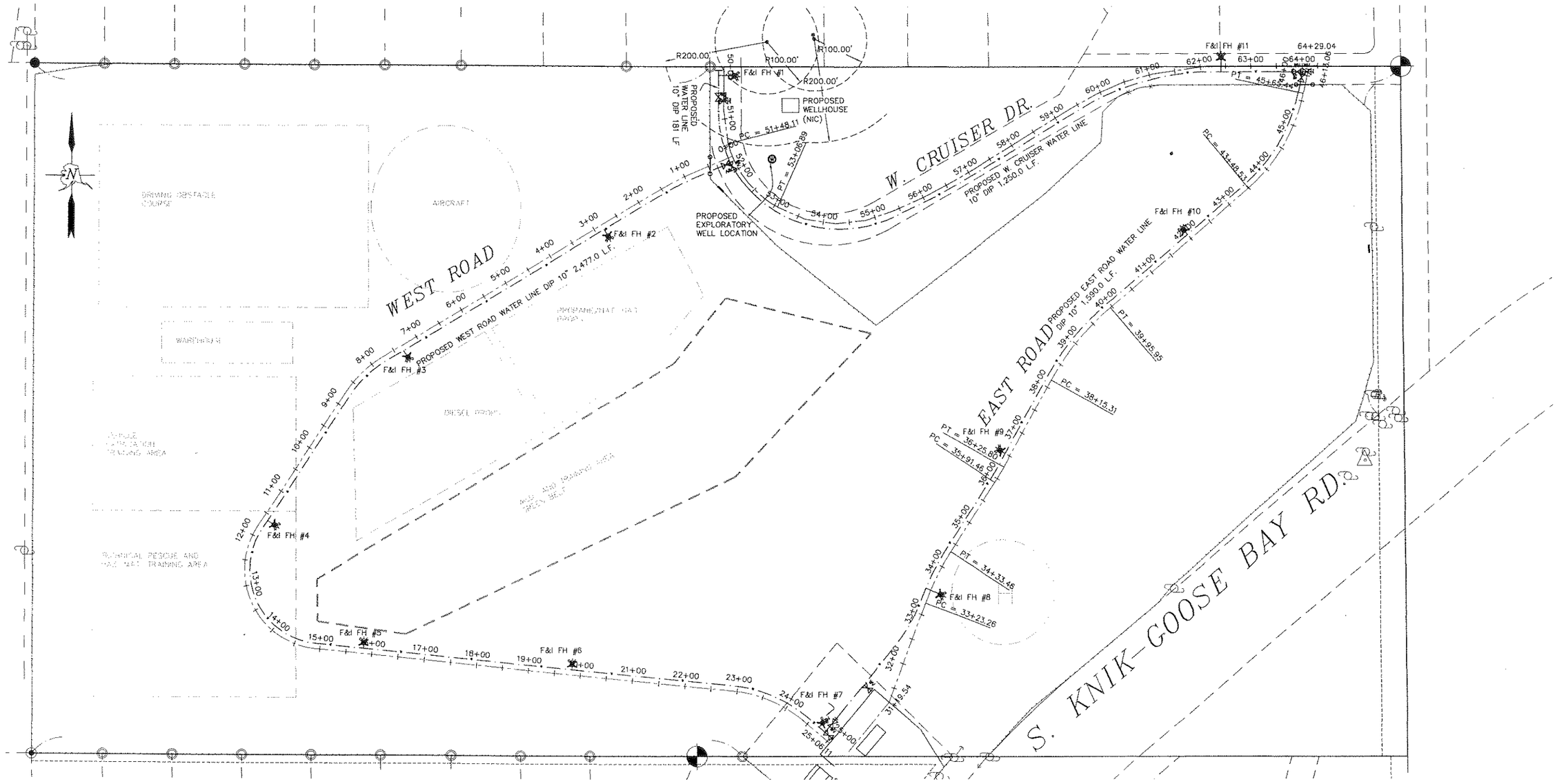
PROJECT NUMBER	SHEET	TOTAL
45101	C13	19



GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

STATE OF ALASKA 49TH Harry R. J. Botes CE 8697 REGISTERED PROFESSIONAL ENGINEER

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
WATER/FIRE LINE SITE PLAN

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: WATER PLAN	FILE: 0700142_PP

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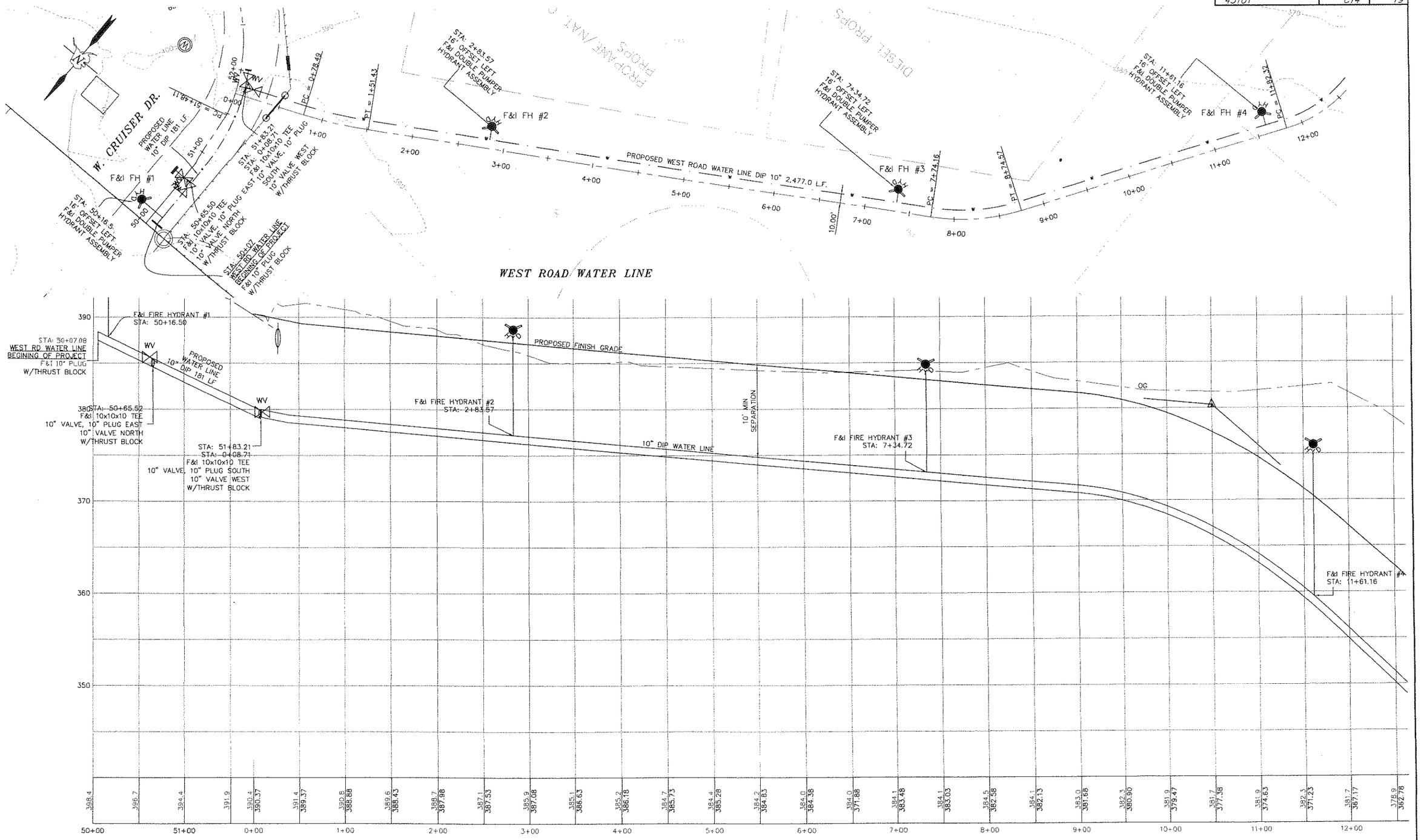
PROJECT NUMBER	SHEET	TOTAL
45101	C14	19



STATION EQUATION:
STA. 51+83.21 = STA. 0+00

GRAPHIC SCALE

HORIZ: 50 0 25 50 100 200
VERT: 5 0 2.5 5 10 20
(IN FEET)

STATE OF ALASKA 49TH Harry R. J. Bates CE 8697 PROFESSIONAL ENGINEER

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
WEST ROAD WATER LINE
PLAN & PROFILE
STA: 50+00 TO STA: 51+83.21 =
STA: 0+00 TO STA: 12+50

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: WEST WATER P&P	FILE: 0700142_PP

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PROJECT NUMBER	SHEET	TOTAL
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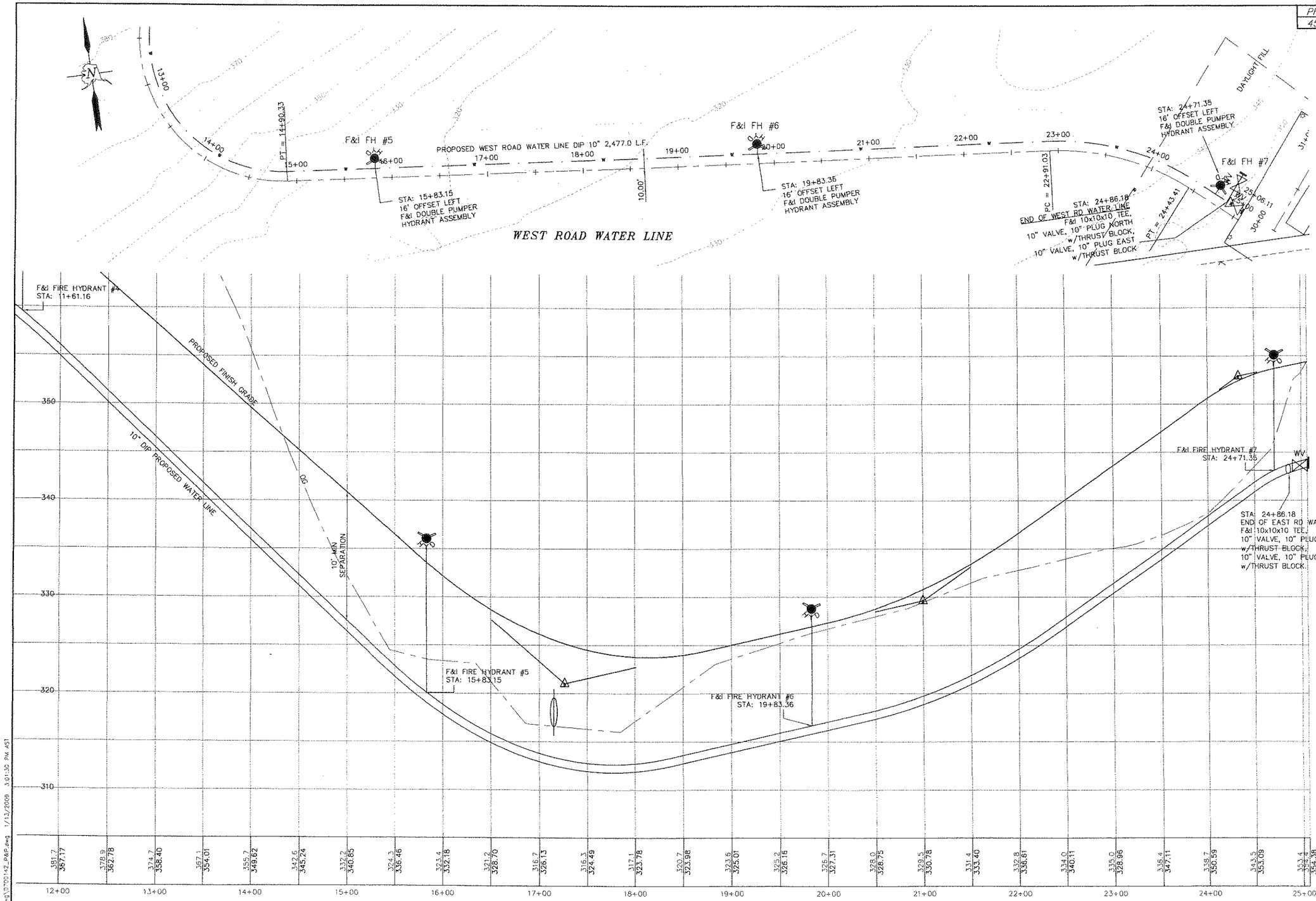

GRAPHIC SCALE

(IN FEET)

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

STATE OF ALASKA 49TH Harry R. J. Bates CE 8697 PROFESSIONAL ENGINEER

CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
WEST ROAD WATER LINE
PLAN & PROFILE
STA: 12+50 TO STA: 25+06.11

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: WESTWTR P&P	FILE: 0700142_PP

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PROJECT NUMBER	SHEET	TOTAL
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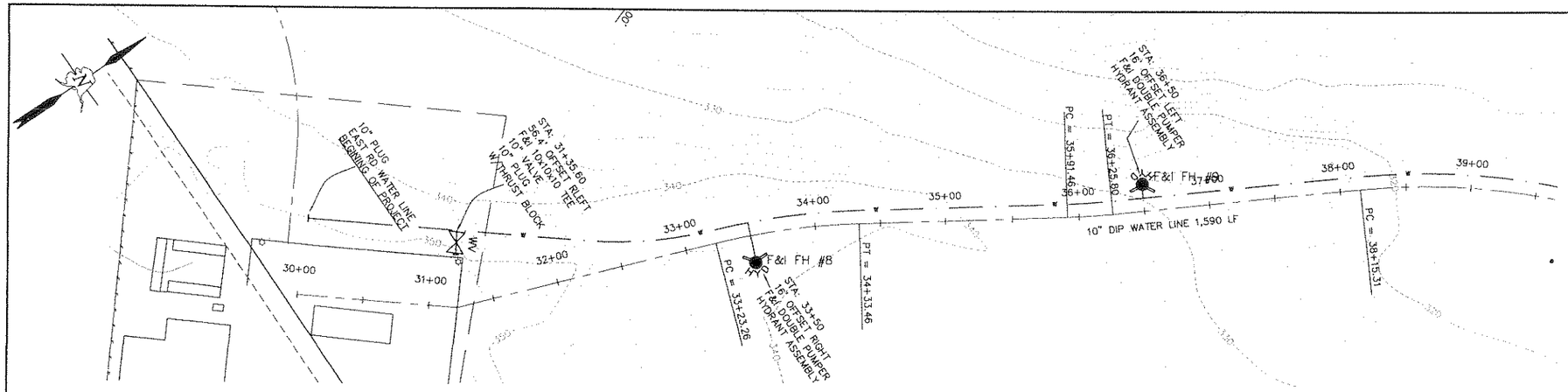
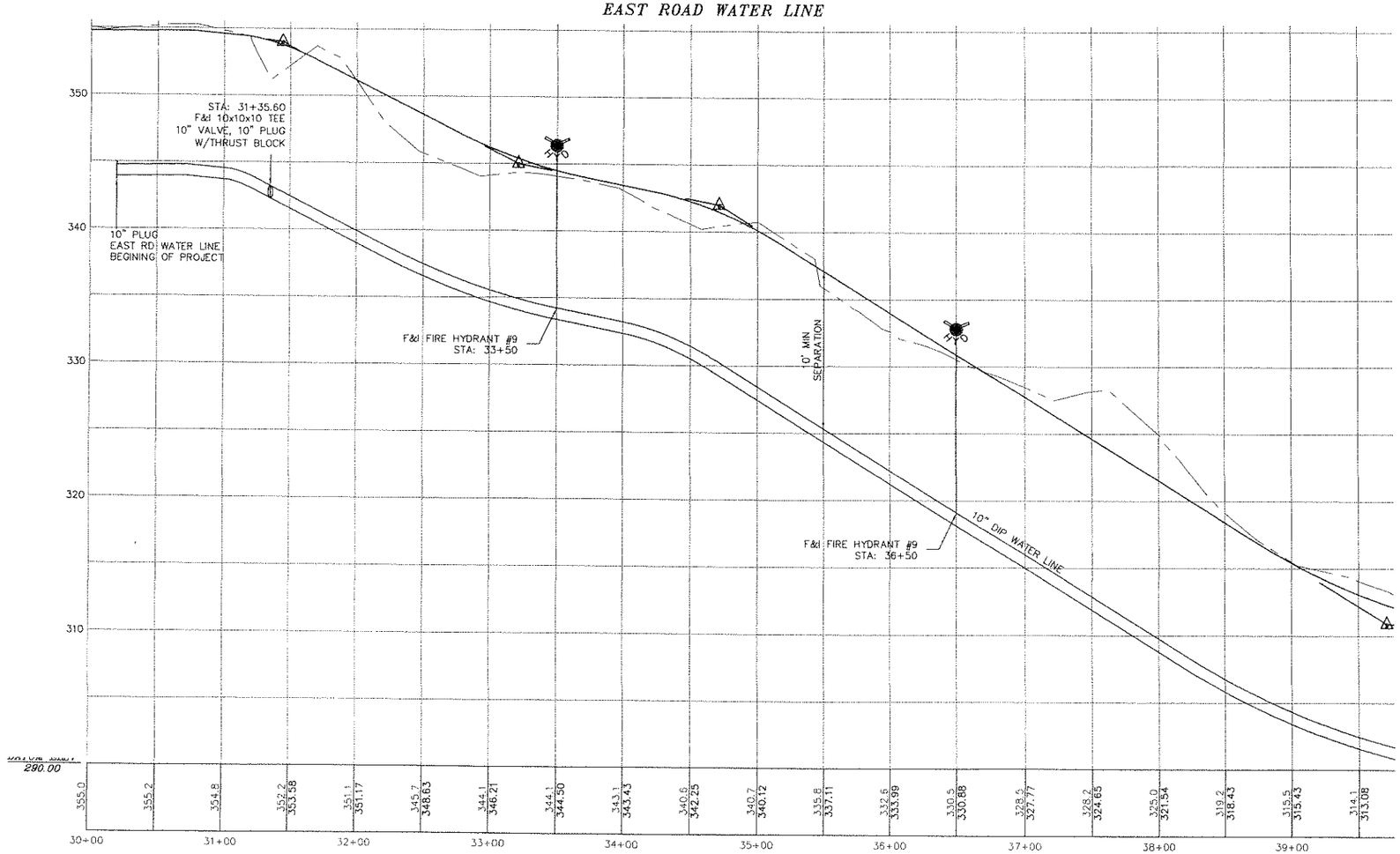
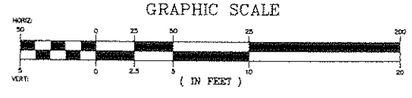


EAST ROAD WATER LINE



GRAPHIC SCALE



DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT–SU
EMERGENCY SERVICES TRAINING COMPLEX
EAST ROAD WATER LINE
PLAN & PROFILE
STA: 30+00 TO STA: 39+50

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: EST WATRP&P	FILE: 0700142_PP

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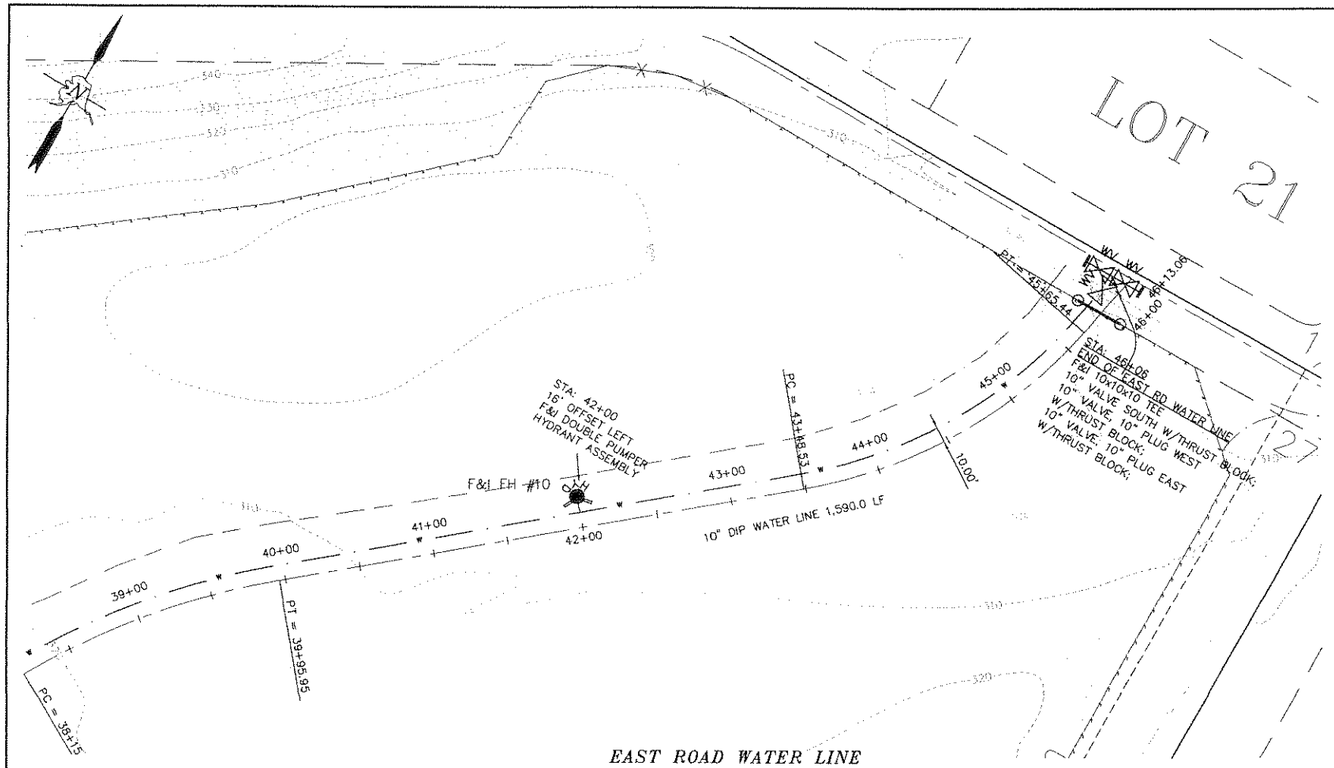
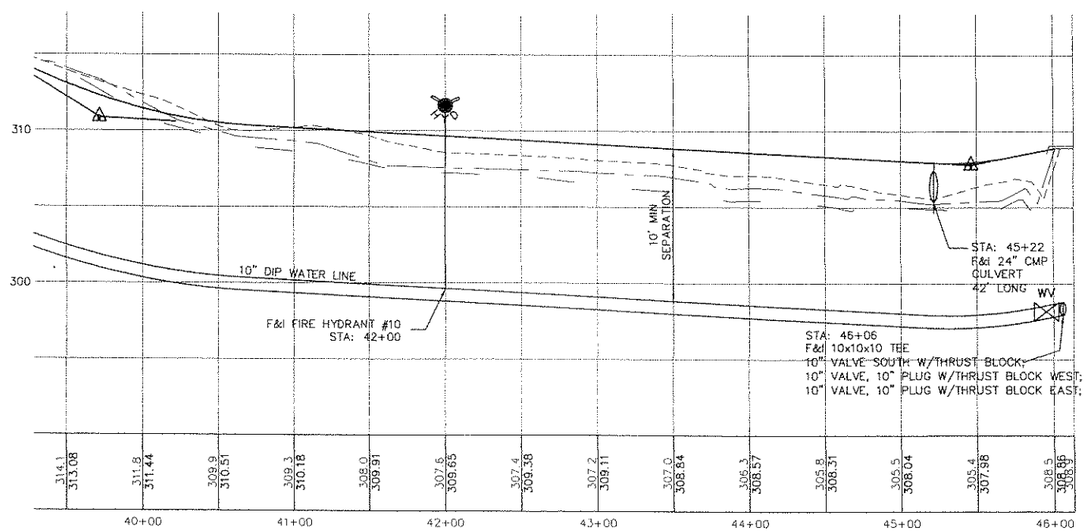
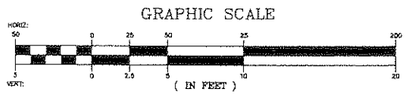
PROJECT NUMBER	SHEET	TOTAL
45101	C17	19



EAST ROAD WATER LINE



GRAPHIC SCALE



DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
EAST ROAD WATER LINE
PLAN & PROFILE
STA: 43+50 TO STA: 46+13.06

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: EST WATERP&P	FILE: 0700142_PP

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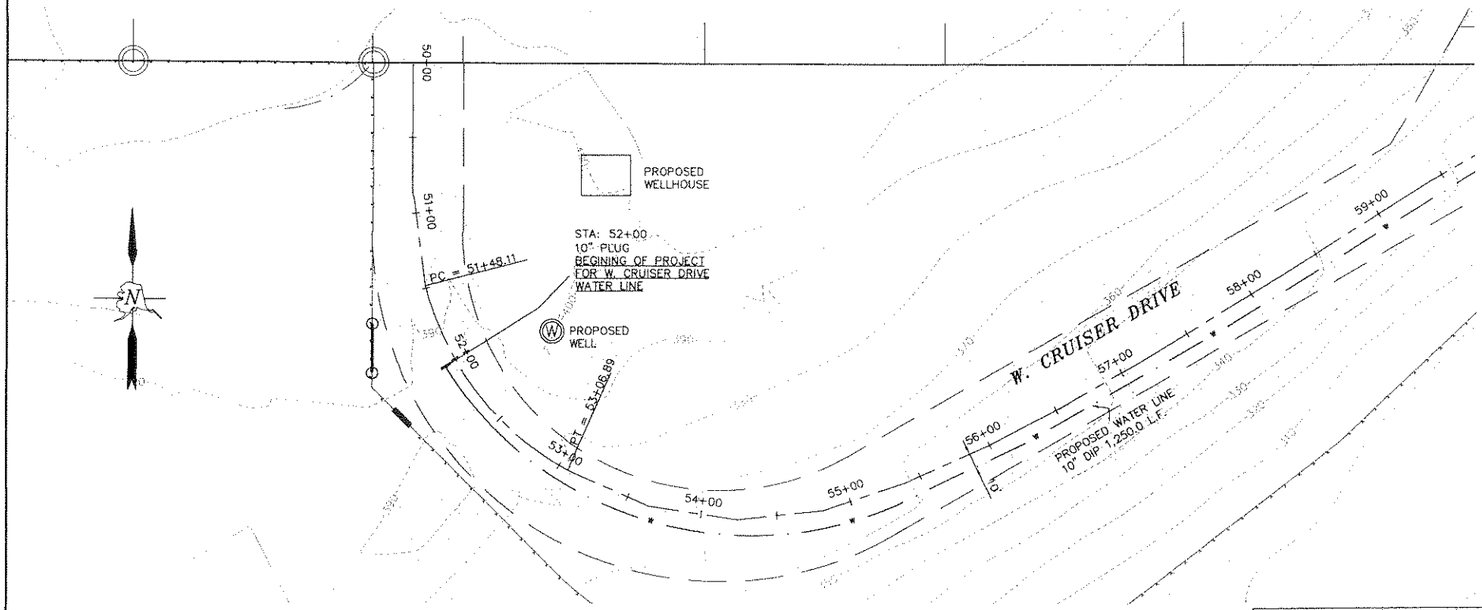
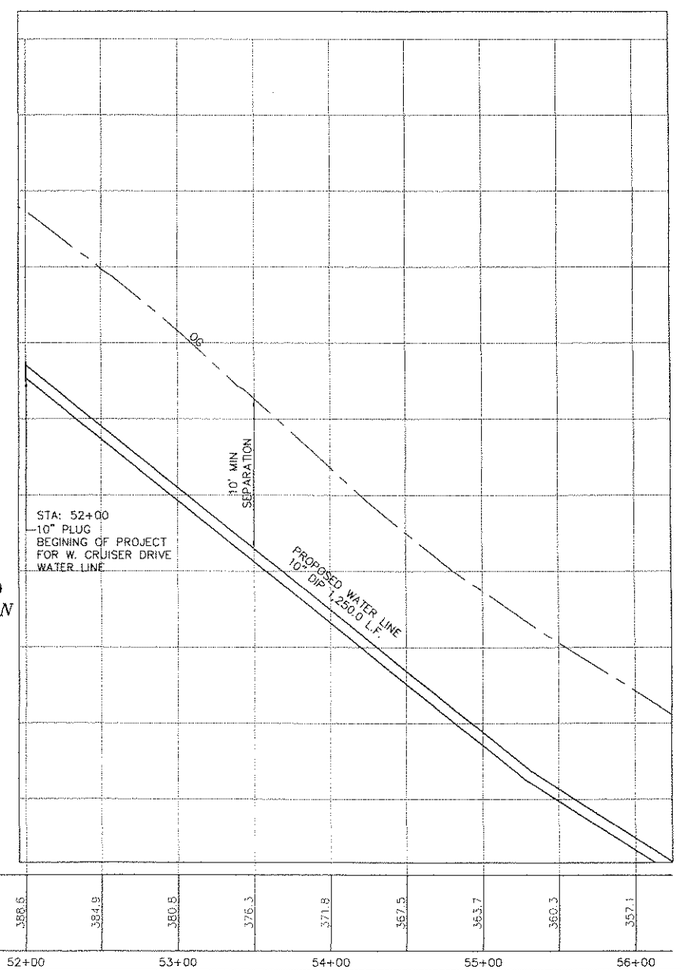
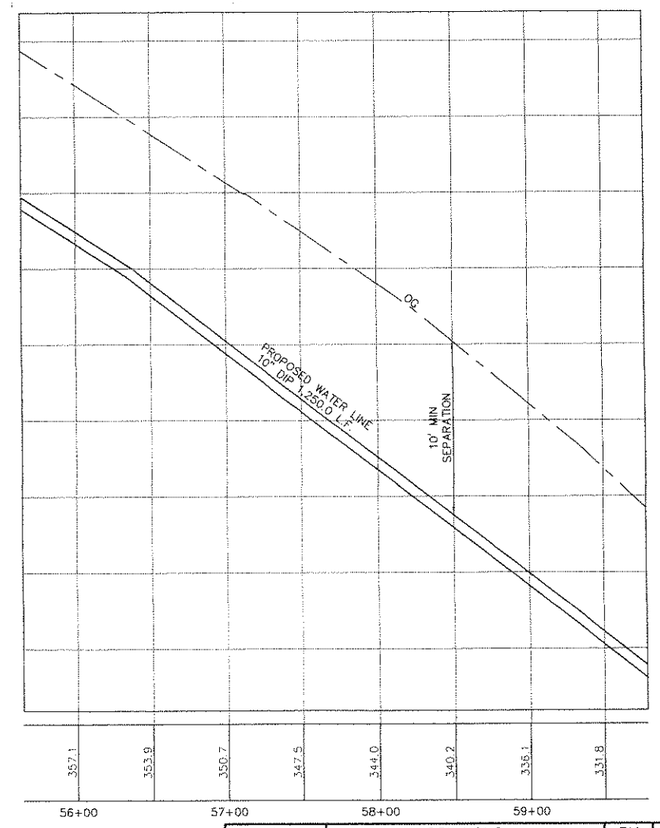
PROJECT NUMBER	SHEET	TOTAL
45101	C18	19







STA: 50+00 TO STA: 52+00
SEE WEST ROAD WATER PLAN
SHEET C13

GRAPHIC SCALE

HORZ: 50 0 25 50 75 100 200
VERT: 5 0 2.5 5 10 20
(IN FEET)

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

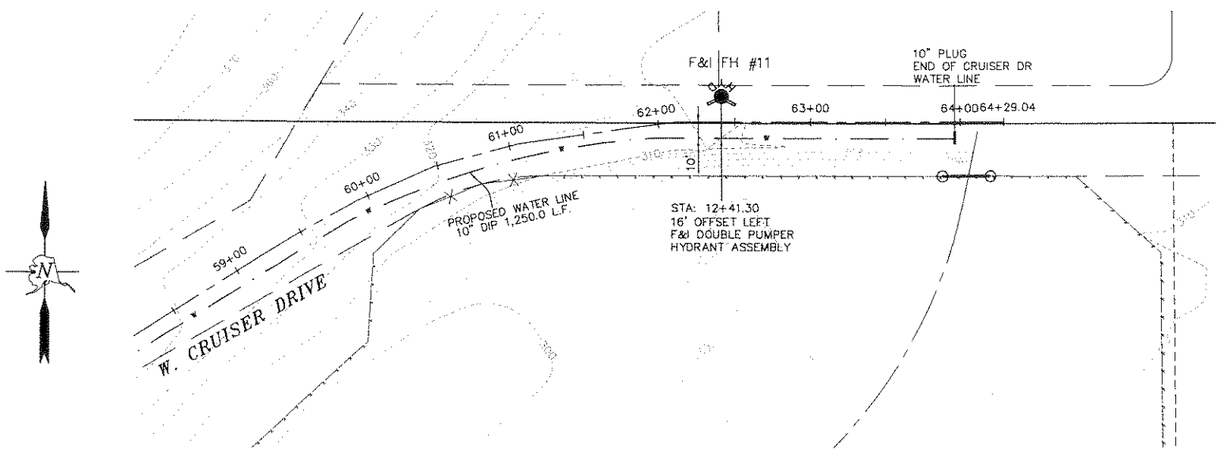
CENTRAL MAT-SU
EMERGENCY SERVICES TRAINING COMPLEX
W. CRUISER DRIVE WATER LINE
PLAN & PROFILE
STA: 50+00 TO STA: 59+00

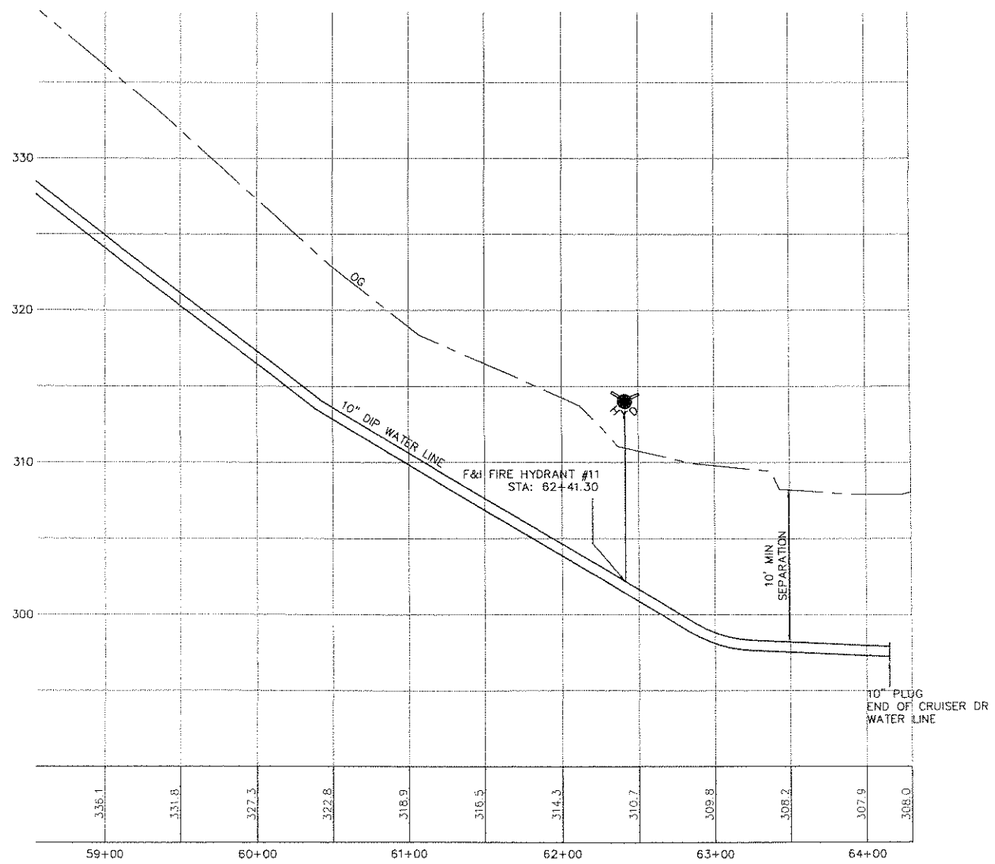
W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: CRUIS WAT P&P	FILE: 0700142_PP

STATE OF ALASKA 49TH Harry R. J. Bates CE 8687 REGISTERED PROFESSIONAL ENGINEER

\\Server\projects\2007\0700142\dwg\0700142_P&P.dwg 1/13/2009 3:09:03 PM AST

PROJECT NUMBER	SHEET	TOTAL
45101	C19	19





GRAPHIC SCALE

HORIZ: 50 0 25 50 25 100
VERT: 5 0 2.5 5 10 20
(IN FEET)

STATE OF ALASKA 49TH
Harry R. J. Bates
CE 8697
REGISTERED PROFESSIONAL ENGINEER

DATE	REVISIONS	BY

ALASKA RIM ENGINEERING, INC.
ENGINEERS–PLANNERS–SURVEYORS
P.O. BOX 2749 PALMER, ALASKA 99645 (907) 745-0222 FAX (907) 746-0222

CENTRAL MAT–SU
EMERGENCY SERVICES TRAINING COMPLEX
W. CRUISER DRIVE WATER LINE
PLAN & PROFILE
STA: 59+00 TO STA: 64+29.04

W.O. 0700142	DATE: JAN. 2009	SCALE: AS NOTED
DRAWN BY: VP	TAB: CRUIS WAT P&P	FILE: 0700142_PP

\\Server\projects\2007\0700142\dwg\0700142_P&P.dwg 1/13/2009 3:09:09 PM AST