

CONTRACTING NOTES:

1. Bid Opening Date has been re-scheduled
to
31 August 2004, 1400 (2 PM, AST).

Please refer to SF 30, Block 14.

2. Amendment 5 changed the project completion date from Sep 2005 to Sep 2006.

3. A new bid schedule was published in Amendment 3. Please use this revised schedule for submissions. Any bid packages received not using this revised schedule may be subject to rejection as “unresponsive” bids.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 1

2. AMENDMENT/MODIFICATION NO.

3. EFFECTIVE DATE

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

R0006

08/12/04

6. ISSUED BY CODE

J4P0000

7. ADMINISTERED BY (If other than Item 6)

CODE

DACA85

US ARMY ENGINEER DISTRICT, AK
CEPOA-CT-CM (W911KB)
PO BOX 6898
ELMENDORF AFB, AK 99506-0898

US ARMY ENGINEER DISTRICT, AK
CEPOA-CT-CM
PO BOX 6898
ELMENDORF AFB, ALASKA 99506-6898

KEVIN MALOY (907)753-5594

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

(X) 9A. AMENDMENT OF SOLICITATION NO.

X W911KB-04-B-0002

9B. DATED (SEE ITEM 11)

04/15/03

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 13)

CODE 089C4

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers

is extended,

is not extended.

Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 0 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting and Appropriation Data (If required)

PROJECT TITLE AND LOCATION: Modified MOUT and Range Upgrade Facility, Ft Wainwright, Alaska

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT:

Contractor

is not,

is required to sign this document and return

_____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

BID OPENING DATE IS EXTENDED TO 31 AUG 2004, at 2:00 pm, local time, at the US Army Engineer District-Alaska, 2204 Third St Elmendorf AFB, Alaska.

NOTICE TO OFFERORS: PLEASE MARK OUTSIDE OF ENVELOPE IN WHICH BID IS SUBMITTED TO SHOW AMENDMENTS RECEIVED. YOU ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT ON THE REVERSE SIDE OF STANDARD FORM 1442.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF SIGNER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

BY

(Signature of person authorized to sign)

(Signature of Contracting Officer)

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>		1. SOLICITATION NUMBER W911KB-04-B-0002	2. TYPE OF SOLICITATION <input checked="" type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED 04/15/04	PAGE OF PAGES
IMPORTANT - The "offer" section on the reverse must be fully completed by the offeror.					
4. CONTRACT NUMBER		5. REQUISITION/PURCHASE REQUEST NUMBER		6. PROJECT NUMBER	
ISSUED BY US ARMY ENGINEER DISTRICT, ALASKA CEPOA-CT-CM (W911KB) PO BOX 6898 ELMENDORF AFB, AK 99506-6898		CODE W911KB	8. ADDRESS OFFER TO SEE ITEM 7		
FOR INFORMATION CALL AM# 1		A. NAME SUSAN GOYNER- KEVIN MALOY		B. TELEPHONE NUMBER (include area code) (NO COLLECT CALLS) (907)753-2838 5594...AM#1	

SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

9. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying number, date):

NAICS: 237990 (Size Standard: \$28.5 million)
 PROJECT TITLE/LOCATION: MOUT Upgrade, Ft Wainwright, Alaska
 COMPETITIVE 8(a) SET-ASIDE
 DESCRIPTION OF WORK: Construct a live-fire Infantry Squad Battle Course (ISBC), Urban Assault Course (UAC), Shoot House Breach Facility, Ammunition Breakdown Facility, Warm up Buildings and Latrines. Project includes an After Action Review (AAR) Facility from which simulations and training operations will be controlled, monitored and reviewed. Supporting facilities include utilities, electric service, access roads and parking areas, and information systems. The ISBC will be constructed in the Ft Wainwright Yukon Training Area. All other facilities are located within the existing training range area south of the Richardson highway. Responders are advised that this requirement may be delayed, canceled, or revised at any time during the solicitation and/or final award process based on decisions related to DoD changes and disposition of the Armed Services.

THIS SOLICITATION UTILIZES ELECTRONIC BID SETS (EBS) AND WILL BE AVAILABLE FOR DOWNLOADING THROUGH OUR WEBSITE AT NO CHARGE -- <https://ebs.poa.usace.army.mil/AdvertisedSolicitations.asp>

1. The Contractor shall begin performance within 10 calendar days and complete it within 475 calendar days after receiving award, notice to proceed. This performance period is mandatory, negotiable. (See REF FAR 52.211-0010)

2A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE PAYMENT BONDS?
 (If "YES," indicate within how many calendar days after award in Item 12B.)
 YES NO

12B. CALENDAR DAYS
10

3. ADDITIONAL SOLICITATION REQUIREMENTS:
 Sealed offers in original and 1 copies to perform the work required are due at the place specified in Item 8 by 2:00 pm (hour) local time AM#6...31 Aug 04...AM#6 this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.
 An offer guarantee is, is not required.
 All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.
 Offers providing less than 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

CONTINUATION SHEET

Amendment No. R0006

Page: 2

a. The following drawings are substituted for the superseded drawings.

F-178-98-01: X-002, C-001, C-004, C-009, C-011, C-032

b. The following reissued and/or revised documents are substituted for the superseded documents. The identifier "AM #6" appears before and after new and revised material, except as noted below.

SECTION 00800 SPECIAL CONTRACT REQUIREMENTS

- SCR-5 CONTRACT DRAWINGS AND SPECIFICATIONS

TECHNICAL SPECIFICATIONS:

SECTION 02231 CLEARING AND GRUBBING

- Paragraph 3.7 CONSTRUCTION IN UNEXPLODED ORDINANCE (UXO) HAZARD AREA(S)

SECTION 02313 EARTHWORK FOR BUILDINGS

- Paragraph 3.12 CONSTRUCTION IN UNEXPLODED ORDINANCE (UXO) HAZARD AREA(S)

SECTION 02314 EARTHWORK FOR UTILITIES

- Paragraph 3.8 CONSTRUCTION IN UNEXPLODED ORDINANCE (UXO) HAZARD AREA(S)

SECTION 02319 EARTHWORK FOR VEHICLE TRAFFIC AREAS, SIDEWALKS, CURBS AND GUTTERS, TARGET EMPLACEMENTS AND AREA GRADING

- Paragraph 3.6 CONSTRUCTION IN UNEXPLODED ORDINANCE (UXO) HAZARD AREA(S)

c. The following section (including submittal register) is deleted.

None

d. The following section (including submittal register) is added.

None

e. NOTICE TO BIDDERS: PLEASE MARK OUTSIDE OF ENVELOPE IN WHICH BID IS SUBMITTED TO SHOW AMENDMENTS RECEIVED. YOU ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT ON THE REVERSE SIDE OF STANDARD FORM 1442.

SECTION 00700a
General Wage Decision AK030001
(Dated (06/13/2003))

Modification Record:

No.	Publication Date
0	06/13/2003
1	11/28/2003
2	02/06/2004
3	03/05/2004
4	04/02/2004
5	04/16/2004 ...AM#1
6	05/14/2004 ...AM#3
7	06/18/2004 ...AM#5
8	07/23/2004 ..AM#6
9	08/06/2004 ..AM#6

General Wage Decision AK030006
(Dated (06/13/2003))

Modification Record:

No.	Publication Date
0	06/13/2003
1	11/28/2003
2	02/13/2004
3	03/05/2004
4	04/02/2004
5	04/16/2004 ...AM#1
6	05/14/2004 ...AM#3
7	08/06/2004 ..AM#6

BRS Document Viewer
 General Decision Number: AK030001 08/06/2004

General Decision Number: AK030001 08/06/2004
 Superseded General Decision Number: AK020001
 State: Alaska
 Construction Types: Building and Heavy
 Counties: Alaska Statewide.
 BUILDING AND HEAVY CONSTRUCTION PROJECTS (does not include
 residential construction consisting of single family homes and
 apartments up to and including 4 stories)

Modification Number	Publication Date
0	06/13/2003
1	11/28/2003
2	02/06/2004
3	03/05/2004
4	04/02/2004
5	04/16/2004
6	05/14/2004
7	06/18/2004
8	07/23/2004
9	08/06/2004

ASBE0097-001 01/01/2004

	Rates	Fringes
Asbestos Workers/Insulator (includes application of all insulating materials protective coverings, coatings and finishings to all types of mechanical systems)...	\$ 29.63	9.42

ASBE0097-002 01/01/2004

	Rates	Fringes
Hazardous Material Handler (includes preparation, wetting, stripping, removal scrapping, vacuuming, bagging, and disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems).....	\$ 26.45	9.42

BOIL0502-002 01/01/2004

	Rates	Fringes
Boilermaker.....	\$ 35.23	15.37

BRAK0001-002 07/01/2003

	Rates	Fringes
Bricklayer, Blocklayer, Stonemason, Marble Mason, Tile Setter, Terrazzo Worker...	\$ 30.13	11.80
Tile & Terrazzo Finisher.....	\$ 24.70	11.80

CARP1243-003 07/01/2003
 North of the 63rd Parallel

	Rates	Fringes
Carpenter/Lather/Drywall Applicator.....	\$ 31.40	12.20
Carpenter: Fire or Flood Repair Work.....	\$ 31.99	12.20
Millwright.....	\$ 32.38	12.20

CARP1281-004 07/01/2003 SOUTH OF 63RD PARALLEL		
	Rates	Fringes
Acoustical Applicator and Lather.....	\$ 28.10	12.70
Carpenters & Drywallers.....	\$ 28.10	12.70
Millwright.....	\$ 28.80	12.70

CARP2520-003 08/01/2003		
	Rates	Fringes
Diver		
Stand-by.....	\$ 32.66	12.20
Tender.....	\$ 31.66	12.20
Working.....	\$ 65.32	12.20
Piledriver		
Carpenter.....	\$ 29.30	12.20
Piledriver; Skiff Operator and Rigger.....	\$ 28.14	12.20
Sheet Pile Stabber.....	\$ 29.14	12.20
Welder.....	\$ 29.90	12.20

ELEC1547-004 11/03/2003		
	Rates	Fringes
Cable splicer.....	\$ 33.17	3%+13.10
Electrician;Technician.....	\$ 31.42	3%+13.10

ELEC1547-005 01/01/2004		
	Rates	Fringes
Cable splicer.....	\$ 35.90	3%+16.00
Linemen (Including Equipment Operators, Technician).....	\$ 34.15	3%+16.00
Powderman.....	\$ 32.15	3%+16.00
Tree Trimmer.....	\$ 22.95	3%+16.00

ELEV0019-002 01/01/2004		
	Rates	Fringes
Elevator Mechanic.....	\$ 37.695	10.765+a
FOOTNOTE: a. Employer contributes 8% of the basic hourly rate for over 5 year's service and 6% of the basic hourly rate for 6 months to 5 years' of service as vacation paid credit. Seven paid holidays: New Year's Day; Memorial Day; Independence Day; Labor Day, Thanksgiving Day; Friday after Thanksgiving and Christmas Day		

ENGI0302-002 09/01/2003		
	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 32.08	10.89
GROUP 1A.....	\$ 33.62	10.89

GROUP 2.....	\$ 31.41	10.89
GROUP 3.....	\$ 30.78	10.89
GROUP 4.....	\$ 25.36	10.89

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Roller; Back Filler; Barrier Machine (Zipper); Batch Plant Operator: Batch and Mixer over 200 yds.; Beltcrete with power pack and similar conveyors; Bending Machine; Boat Coxwains; Bulldozers; Cableways, Highlines and Cablecars; Cleaning Machine; Coating Machine; Concrete Hydro Blaster; Cranes-45 tons and under or 150 foot boom and under (including jib and attachments): (a) Shovels, Backhoes, Draglines, Clamshells; Gradalls-3 yards and under; (b) Hydralifts or Transporters, all track or truck type, (c) Derricks; Crushers; Deck Winches-Double Drum; Ditching or Trenching Machine (16 inch or over); Drilling Machines, core, cable, rotary and exploration; Finishing Machine Operator, concrete paving, Laser Screed, sidewalk, curb and gutter machine; Helicopters; Hover Craft, Flex Craft, Loadmaster, Air Cushion, All Terrain Vehicle, Rollagon, Bargecable, Nodwell Sno Cat; Hydro Ax: Feller Buncher and similar; Loaders: Forklifts with power boom and swing attachment, Overhead and front end, 2 1/2 yards through 5 yards, Loaders with forks or pipe clamps, Loaders, elevating belt type, Euclid and similar types; Mechanics, Bodyman; Micro Tunneling Machine; Mixers: Mobile type w/hoist combination; Motor Patrol Grader; Mucking Machines: Mole, Tunnel Drill, Horizontal/Directional Drill Operator, and/or Shield; Operator on Dredges; Piledriver Engineers, L. B. Foster, Puller or similar Paving Breaker; Power Plant, Turbine Operator, 200 k.w. and over (power plants or combination of power units over 300 k.w.); Sauerman-Bagley; Scrapers-through 40 yards; Service Oiler/Service Engineer; Sidebooms-under 45 tons; Shot Blast Machine; Spreaders, Blaw Knox, Cedarapids, Barber Greene, Slurry Machine; Sub-grader (Gurries, C.M.I. and C.M.I. Roto Mills and similar types); Tack tractor; Truck mounted Concrete Pumps, Conveyor, Creter; Water Kote Machine; Unlicensed off road hauler

GROUP 1A: Cranes-over 45 tons or 150 foot (including jib and attachments): (a) Shovels, backhoes, draglines, clamshells-over 3 yards, (b) Tower cranes; Loaders over 5 yds.; Motor Patrol Grader (finish: when finishing to final graders and/or to hubs, or for asphalt); Power Plants: 1000 k.w. and over; Quad; Screed; Sidebooms over 45 tons; Slip Form Paver C.M.I. and similar types; Scrapers over 40 yards
 GROUP 2: Batch Plant Operators: Batch and Mixer 200 yds. per hour and under; Boiler-fireman; Cement Hog and Concrete Pump Operator; Conveyors (except as listed in group 1); Hoist on steel erection; Towermobiles and Air Tuggers; Horizontal/Directional Drill Locator; Loaders, Elevating Grader, Dumor and similar; Locomotives: rod and geared engines; Mixers; Screening, Washing Plant; Sideboom (cradling rock drill regardless of size); Skidder; Trenching Machine under 16 inches.

GROUP 3: "A" Frame Trucks, Deck Winches: single power drum; Bombardier (tack or tow rig); Boring Machine; Brooms-power; Bump Cutter; Compressor; Farm tractor; Forklift, industrial

type; Gin Truck or Winch Truck with poles when used for hoisting; Grade Checker and Stake Hopper; Hoist, Air Tuggers, Elevators; Loaders: (a) Elevating-Athey, Barber Green and similar types (b) Forklifts or Lumber Carrier (on construction job site) (c) Forklifts with Tower (d) Overhead and Front-end, under 2 1/2 yds. Locomotives: Dinkey (air, steam, gas and electric) Speeders; Mechanics (light duty); Mixers: Concrete Mixers and Batch 200 yds. per hour and under; Oil, Blower Distribution; Post Hole Diggers, mechanical; Pot Fireman (power agitated); Power Plant, Turbine Operator, under 300 k.w.; Pumps-water; Rig oiler/assistant engineer, over 45 ton, over 3 yards or over 150 foot boom; Roller-other than Plantmix; Saws, concrete; Straightening Machine; Tow Tractor
 GROUP 4: Rig Oiler/Assistant Engineer (Advances to Group III if over 45 tons or 3 yards or 150 ft. boom); Swamper (on trenching machines or shovel type equipment); Spotter; Steam Cleaner
 FOOTNOTE: Groups 1-4 receive 10% premium while performing tunnel or underground work.

 IRON0751-003 08/01/2003

	Rates	Fringes
Ironworkers:		
BRIDGE, STRUCTURAL, ORNAMENTAL, REINFORCING MACHINERY MOVER, RIGGER, SHEETER, STAGE RIGGER, BENDER OPERATOR.....	\$ 27.50	14.10
FENCE, BARRIER AND GUARDRAIL INSTALLERS.....	\$ 24.00	13.85
GUARDRAIL LAYOUT MAN.....	\$ 24.74	13.85
HELICOPTER, TOWER.....	\$ 28.50	14.10

 LABO0341-005 09/01/2003

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 24.49	11.50
GROUP 2.....	\$ 25.24	11.50
GROUP 3.....	\$ 25.89	11.50
GROUP 3A.....	\$ 28.29	11.50
GROUP 4.....	\$ 16.84	11.50
TUNNELS, SHAFTS, AND RAISES		
GROUP 1.....	\$ 26.94	11.50
GROUP 2.....	\$ 27.76	11.50
GROUP 3.....	\$ 28.48	11.50
GROUP 3A.....	\$ 31.12	11.50

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Workers (shovelman, plant crew); Brush Cutters; Camp Maintenance Laborer; Carpenter Tenders; Choke Setters, Hook Tender, Rigger, Signalman; Concrete Laborer (curb and gutter, chute handler, grouting, curing, screeding); Crusher Plant Laborer; Demolition Laborer; Ditch Diggers; Dump Man; Environmental Laborer (asbestos (limited to nonmechanical systems), hazardous and toxic waste, oil spill); Fence Installer; Fire Watch Laborer; Flagman; Form Strippers; General Laborer; Guardrail

Laborer, Bridge Rail Installers; Hydro-Seeder Nozzleman; Laborers (building); Landscape or Planter; Material Handlers; Pneumatic or Power Tools; Portable or Chemical Toilet Serviceman; Pump Man or Mixer Man; Railroad Track Laborer; Sandblast, Pot Tender; Saw Tenders; Scaffold Building and Erecting; Slurry Work; Stake Hopper; Steam Point or Water Jet Operator; Steam Cleaner Operator; Tank Cleaning; Utiliwalk and Utilidor Laborer; Watchman (construction projects); Window Cleaner

GROUP 2: Burning and Cutting Torch; Cement or Lime Dumper or Handler (sack or bulk); Choker Splicer; Chucktender (wagon, airtrack and hydraulic drills); Concrete Laborers (power buggy, concrete saws, pumpcrete nozzleman, vibratorman); Environmental Laborer (marine work); Foam Gun or Foam Machine Operator; Green Cutter (dam work); Guardrail Machine Operator; Gunnite Operator; Hod Carriers; Jackhammer or Pavement Breakers (more than 45 pounds); Mason Tender and Mud Mixer (sewer work); Plasterer, Bricklayer and Cement Finisher Tenders; Power Saw Operator; Railroad Switch Layout Laborer; Sandblaster; Sewer Caulkers; Sewer Plant Maintenance Man; Thermal Plastic Applicator; Timber Faller, chain saw operator, filer; Timberman

GROUP 3: Bit Grinder; Drill Doctor (in the field); Drillers (including, but not limited to, wagon drills, air track drills; hydraulic drills); High Rigger and tree topper; Higher Scaler; Pioneer Drilling and Drilling Off Tugger (all type drills); Powderman; Slurry Seal Squeegee Man

GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Grade checker (setting or transferring of grade marks, line and grade); Pipelayers

GROUP 4: Final Building Cleanup

TUNNELS, SHAFTS, AND RAISES CLASSIFICATIONS

GROUP 1: Brakeman; Muckers; Nippers; Topman and Bull Gang; Tunnel Track Laborer

GROUP 2: Burning and Cutting Torch; Concrete Laborers; Jackhammers; Laser Instrument Operators; Nozzleman, Pumpcrete or Shotcrete; Pipelayers.

GROUP 3: Miner; Miner; Retimberman

GROUP 3A: Powderman

Tunnel shaft and raise rates only apply to workers regularly employed inside a tunnel portal or shaft collar.

PAIN1140-004 07/01/2004

SOUTH OF THE 63RD PARALLEL

	Rates	Fringes
Painters:		
Brush, Roller, Sign, Paper and Vinyl, Swing Stage, Hand Taper/Drywall, Structural Steel, and Commercial Spray.....	\$ 23.79	12.89
Machine Taper/Drywall.....	\$ 23.99	12.89
Spray-Sand/Blast, Epoxy and Tar Applicator.....	\$ 24.59	12.89
Steeple Jack & Tower.....	\$ 25.59	12.89

PAIN1140-005 07/01/2004

	Rates	Fringes
Soft Floor Layer.....	\$ 25.40	8.87

PAIN1140-006 07/01/2004

SOUTH OF THE 63RD PARALLEL

	Rates	Fringes
Glazier.....	\$ 27.00	12.60

PAIN1555-004 04/01/2004

NORTH OF THE 63RD PARALLEL

	Rates	Fringes
Hazardous Material Applicator		
LEAD BASED PAINT		
ABATEMENT, RADON		
MITIGATION, SANDBLAST,		
STRUCTURAL STEEL, TAPING,		
TEXTURING.....	\$ 28.50	12.47
Painter		
BRUSH, BUFFER OPERATOR,		
FLOOR-COVERER, POT TENDER,		
ROLL SPRAY, WALLCOVERER.....	\$ 28.00	12.47

PAIN1555-005 06/01/2004

NORTH OF THE 63RD PARALLEL

	Rates	Fringes
Glazier.....	\$ 27.60	12.07

PLAS0867-001 04/01/2004

	Rates	Fringes
Plasterer		
NORTH OF THE 63RD PARALLEL..	\$ 30.39	11.51
SOUTH OF THE 63RD PARALLEL..	\$ 30.14	11.51

* PLAS0867-003 04/01/2004

	Rates	Fringes
Cement Mason		
NORTH OF THE 63RD PARALLEL..	\$ 29.54	11.51
SOUTH OF THE 63RD PARALLEL..	\$ 29.29	11.51

* PLUM0262-002 07/01/2004

East of the 141st Meridian

	Rates	Fringes
Plumber; Steamfitter.....	\$ 29.09	12.05

PLUM0367-002 07/01/2004

South of the 63rd Parallel

	Rates	Fringes
Plumber; Steamfitter.....	\$ 31.30	13.62

PLUM0375-002 07/01/2004

North of the 63rd Parallel

	Rates	Fringes
Plumber; Steamfitter.....	\$ 35.16	15.45

PLUM0669-002 04/01/2004

	Rates	Fringes
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Sprinkler Fitter.....\$ 37.85 8.65

ROOF0190-002 09/01/2003

	Rates	Fringes
Roofer		
North of the 63rd Parallel..\$	30.20	10.92
South of the 63rd Parallel..\$	28.20	10.92

SHEE0023-003 07/01/2004

South of the 63rd Parallel

	Rates	Fringes
Sheet Metal Worker.....\$	32.58	13.31

SHEE0023-004 09/01/2003

North of the 63rd Parallel

	Rates	Fringes
Sheet Metal Worker.....\$	33.36	12.89

TEAM0959-003 09/01/2003

	Rates	Fringes
Truck Driver		
GROUP 1.....\$	32.10	10.07
GROUP 1A.....\$	33.15	10.07
GROUP 2.....\$	31.05	10.07
GROUP 3.....\$	30.37	10.07
GROUP 4.....\$	29.90	10.07
GROUP 5.....\$	29.26	10.07

GROUP 1: Semi with Double Box Mixer; Dump Trucks (including rockbuggy and trucks with pups) over 40 yards up to and including 60 yards; Deltas, Commanders, Rollogans and similar equipment when pulling sleds, trailers or similar equipment; Boat Coxswain; Lowboys including attached trailers and jeeps, up to and including 12 axles; Ready-mix over 12 yards up to and including 15 yards)

GROUP 1A: Dump Trucks (including Rockbuggy and Trucks with pups) over 60 yards up to and including 100 yards

GROUP 2: Turn-O-Wagon or DW-10 not self-loading; All Deltas, Commanders, Rollogans, and similar equipment; Mechanics; Tireman, heavy duty; Dump Trucks (including Rockbuggy and Trucks with pups) over 20 yards up to and including 40 yards; Lowboys including attached trailers and jeeps up to and including 8 axles; Super vac truck/cacasco truck/heat stress truck; Ready-mix over 7 yards up to and including 12 yards

GROUP 3: Dump Trucks (including Rockbuggy and Trucks with pups) over 10 yards up to and including 20 yards; batch trucks 8 yards and up; Oil distributor drivers; Greaser; Water Wagon (when pulled by Euclid or similar type equipment); Partsman

GROUP 4: Buggymobile; Semi or Truck and trailer; Dumpster; Tireman (light duty); Dump Trucks (including Rockbuggy and Truck with pups) up to and including 10 yards; Track Truck Equipment; Stringing Truck; Fuel Truck; Fuel Handler with truck; Grease Truck; Flat Beds, dual rear axle; Hyster Operators (handling bulk aggregate); Lumber Carrier; Water Wagon, semi; Water Wagon, dual axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame manufactured rating

over 5 tons; Bull Lifts and Fork Lifts with Power Boom and Swing attachments, over 5 tons; Front End Loader with Forks; Bus Operator over 30 passengers; All Terrain Vehicles; Boom Truck/Knuckle Truck over 5 tons; Foam Distributor Truck/dual axle; Hydro-seeders, dual axle; Vacuum Trucks, Truck Vacuum Sweepers; Vacuum Trucks, Truck Vacuum Sweepers; Loadmaster (air and water); Air Cushion or similar type vehicle; Fire Truck; Combination Truck-fuel and grease; Compactor (when pulled by rubber tired equipment); Rigger (air/water/oilfield); Ready Mix, up to and including 7 yards

GROUP 5: Gravel Spreader Box Operator on Truck; Flat Beds, single rear axle; Boom Truck/Knuckle Truck up to and including 5 tons; Pickups (Pilot Cars and all light duty vehicles); Water Wagon, single axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame, manufactured rating 5 tons and under; Bull Lifts and Fork Lifts (fork lifts with power broom and swing attachments up to and including 5 tons); Buffer Truck; Tack Truck; Bus Operators (up to 30 passengers); Farm type Rubber Tired Tractor (when material handling or pulling wagons on a construction project); Foam Distributor, single axle; Hydro-Seeders, single axle; Team Drivers (horses, mules and similar equipment); Rigger (warehouse operation); Fuel Handler (station/bulk attendant); Batch Truck, up to and including 7 yards

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

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Wage and Hour Division
U.S. Department of Labor
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Washington, DC 20210

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The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

General Decision Number: AK030006 08/06/2004

State: Alaska

Construction Types: Highway

Counties: Aleutians East, Aleutians West, Anchorage, Bethel, Bristol Bay, Dillingham, Fairbanks North Star, Kenai Peninsula, Kodiak Island, Matanuska-Susitna, Nome, North Slope, Northwest Artic, Southeast Fairbanks, Valdez-Cordova, Wade Hampton and Yukon-Koyukuk Counties in Alaska.

Highway Construction Projects

Modification Number	Publication Date
0	06/13/2003
1	11/28/2003
2	02/13/2004
3	03/05/2004
4	04/02/2004
5	04/16/2004
6	05/14/2004
7	08/06/2004

CARP1243-004 07/01/2003

North of the 63rd Parallel

	Rates	Fringes
Carpenter.....	\$ 31.40	12.20

CARP1281-006 07/01/2003

South of the 63rd Parallel

	Rates	Fringes
Carpenter.....	\$ 28.10	12.70

CARP2520-004 08/01/2003

	Rates	Fringes
Piledriver		
Carpenter.....	\$ 29.30	12.20
Piledriver, Skiff		
operator, Rigger.....	\$ 28.14	12.20
Sheet Stabber.....	\$ 29.14	12.20
Welder.....	\$ 29.90	12.20

ELEC1547-004 11/03/2003

	Rates	Fringes
Cable splicer.....	\$ 33.17	3%+13.10
Electrician;Technician.....	\$ 31.42	3%+13.10

ELEC1547-005 01/01/2004

	Rates	Fringes
Cable splicer.....	\$ 35.90	3%+16.00
Linemen (Including Equipment		
Operators, Technician).....	\$ 34.15	3%+16.00
Powderman.....	\$ 32.15	3%+16.00
Tree Trimmer.....	\$ 22.95	3%+16.00

ENGI0302-002 09/01/2003

	Rates	Fringes
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Power equipment operators:

GROUP 1.....	\$ 32.08	10.89
GROUP 1A.....	\$ 33.62	10.89
GROUP 2.....	\$ 31.41	10.89
GROUP 3.....	\$ 30.78	10.89
GROUP 4.....	\$ 25.36	10.89

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Roller; Back Filler; Barrier Machine (Zipper); Batch Plant Operator: Batch and Mixer over 200 yds.; Beltcrete with power pack and similar conveyors; Bending Machine; Boat Coxwains; Bulldozers; Cableways, Highlines and Cablecars; Cleaning Machine; Coating Machine; Concrete Hydro Blaster; Cranes-45 tons and under or 150 foot boom and under (including jib and attachments): (a) Shovels, Backhoes, Draglines, Clamshells; Gradalls-3 yards and under; (b) Hydralifts or Transporters, all track or truck type, (c) Derricks; Crushers; Deck Winches-Double Drum; Ditching or Trenching Machine (16 inch or over); Drilling Machines, core, cable, rotary and exploration; Finishing Machine Operator, concrete paving, Laser Screed, sidewalk, curb and gutter machine; Helicopters; Hover Craft, Flex Craft, Loadmaster, Air Cushion, All Terrain Vehicle, Rollagon, Bargecable, Nodwell Sno Cat; Hydro Ax: Feller Buncher and similar; Loaders: Forklifts with power boom and swing attachment, Overhead and front end, 2 1/2 yards through 5 yards, Loaders with forks or pipe clamps, Loaders, elevating belt type, Euclid and similar types; Mechanics, Bodyman; Micro Tunneling Machine; Mixers: Mobile type w/hoist combination; Motor Patrol Grader; Mucking Machines: Mole, Tunnel Drill, Horizontal/Directional Drill Operator, and/or Shield; Operator on Dredges; Piledriver Engineers, L. B. Foster, Puller or similar Paving Breaker; Power Plant, Turbine Operator, 200 k.w. and over (power plants or combination of power units over 300 k.w.); Sauerman-Bagley; Scrapers-through 40 yards; Service Oiler/Service Engineer; Sidebooms-under 45 tons; Shot Blast Machine; Spreaders, Blaw Knox, Cedarapids, Barber Greene, Slurry Machine; Sub-grader (Gurries, C.M.I. and C.M.I. Roto Mills and similar types); Tack tractor; Truck mounted Concrete Pumps, Conveyor, Creter; Water Kote Machine; Unlicensed off road hauler

GROUP 1A: Cranes-over 45 tons or 150 foot (including jib and attachments): (a) Shovels, backhoes, draglines, clamshells-over 3 yards, (b) Tower cranes; Loaders over 5 yds.; Motor Patrol Grader (finish: when finishing to final graders and/or to hubs, or for asphalt); Power Plants: 1000 k.w. and over; Quad; Screed; Sidebooms over 45 tons; Slip Form Paver C.M.I. and similar types; Scrapers over 40 yards

GROUP 2: Batch Plant Operators: Batch and Mixer 200 yds. per hour and under; Boiler-fireman; Cement Hog and Concrete Pump Operator; Conveyors (except as listed in group 1); Hoist on steel erection; Towermobiles and Air Tuggers; Horizontal/Directional Drill Locator; Loaders, Elevating Grader, Dumor and similar; Locomotives: rod and geared engines; Mixers; Screening, Washing Plant; Sideboom (cradling rock drill regardless of size); Skidder; Trenching Machine under 16 inches.

GROUP 3: "A" Frame Trucks, Deck Winches: single power drum; Bombardier (tack or tow rig); Boring Machine; Brooms-power; Bump Cutter; Compressor; Farm tractor; Forklift, industrial type; Gin Truck or Winch Truck with poles when used for hoisting; Grade Checker and Stake Hopper; Hoist, Air Tuggers, Elevators; Loaders: (a) Elevating-Athey, Barber Green and similar types (b) Forklifts or Lumber Carrier (on construction job site) (c) Forklifts with Tower (d) Overhead and Front-end, under 2 1/2 yds. Locomotives: Dinkey (air, steam, gas and electric) Speeders; Mechanics (light duty); Mixers: Concrete Mixers and Batch 200 yds. per hour and under; Oil, Blower Distribution; Post Hole Diggers, mechanical; Pot Fireman (power agitated); Power Plant, Turbine Operator, under 300 k.w.; Pumps-water; Rig oiler/assistant engineer, over 45 ton, over 3 yards or over 150 foot boom; Roller-other than Plantmix; Saws, concrete; Straightening Machine; Tow Tractor

GROUP 4: Rig Oiler/Assistant Engineer (Advances to Group III if over 45 tons or 3 yards or 150 ft. boom); Swamper (on trenching machines or shovel type equipment); Spotter; Steam Cleaner

FOOTNOTE: Groups 1-4 receive 10% premium while performing tunnel or underground work.

 IRON0751-003 08/01/2003

	Rates	Fringes
Ironworkers:		
BRIDGE, STRUCTURAL, ORNAMENTAL, REINFORCING MACHINERY MOVER, RIGGER, SHEETER, STAGE RIGGER, BENDER OPERATOR.....	\$ 27.50	14.10
FENCE, BARRIER AND GUARDRAIL INSTALLERS.....	\$ 24.00	13.85
GUARDRAIL LAYOUT MAN.....	\$ 24.74	13.85
HELICOPTER, TOWER.....	\$ 28.50	14.10

 LABO0341-007 09/01/2003

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 24.49	11.50
GROUP 2.....	\$ 25.24	11.50
GROUP 3.....	\$ 25.89	11.50
GROUP 3A.....	\$ 28.29	11.50
GROUP 4.....	\$ 16.84	11.50
Tunnels, Shafts, and Raises		
GROUP 1.....	\$ 26.94	11.50
GROUP 2.....	\$ 27.76	11.50
GROUP 3.....	\$ 28.48	11.50
GROUP 3A.....	\$ 31.12	11.50

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Workers (shovelman, plant crew); Brush Cutters; Camp Maintenance Laborer; Carpenter Tenders; Choke Setters, Hook Tender, Rigger, Signalman; Concrete Laborer (curb and gutter, chute handler, grouting, curing, screeding); Crusher Plant Laborer; Demolition Laborer; Ditch Diggers; Dump Man; Environmental Laborer (asbestos

(limited to nonmechanical systems), hazardous and toxic waste, oil spill); Fence Installer; Fire Watch Laborer; Flagman; Form Strippers; General Laborer; Guardrail Laborer, Bridge Rail Installers; Hydro-Seeder Nozzleman; Laborers (building); Landscape or Planter; Material Handlers; Pneumatic or Power Tools; Portable or Chemical Toilet Serviceman; Pump Man or Mixer Man; Railroad Track Laborer; Sandblast, Pot Tender; Saw Tenders; Scaffold Building and Erecting; Slurry Work; Stake Hopper; Steam Point or Water Jet Operator; Steam Cleaner Operator; Tank Cleaning; Utiliwalk and Utilidor Laborer; Watchman (construction projects); Window Cleaner

GROUP 2: Burning and Cutting Torch; Cement or Lime Dumper or Handler (sack or bulk); Choker Splicer; Chucktender (wagon, airtrack and hydraulic drills); Concrete Laborers (power buggy, concrete saws, pumpcrete nozzleman, vibratorman); Environmental Laborer (marine work); Foam Gun or Foam Machine Operator; Green Cutter (dam work); Guardrail Machine Operator; Gunnite Operator; Hod Carriers; Jackhammer or Pavement Breakers (more than 45 pounds); Mason Tender and Mud Mixer (sewer work); Plasterer, Bricklayer and Cement Finisher Tenders; Power Saw Operator; Railroad Switch Layout Laborer; Sandblaster; Sewer Caulkers; Sewer Plant Maintenance Man; Thermal Plastic Applicator; Timber Faller, chain saw operator, filer; Timberman

GROUP 3: Bit Grinder; Drill Doctor (in the field); Drillers (including, but not limited to, wagon drills, air track drills; hydraulic drills); High Rigger and tree topper; Higher Scaler; Pioneer Drilling and Drilling Off Tugger (all type drills); Powderman; Slurry Seal Squeegee Man

GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Grade checker (setting or transferring of grade marks, line and grade); Pipelayers

GROUP 4: Final Building Cleanup

TUNNELS, SHAFTS, AND RAISES CLASSIFICATIONS

GROUP 1: Brakeman; Muckers; Nippers; Topman and Bull Gang; Tunnel Track Laborer

GROUP 2: Burning and Cutting Torch; Concrete Laborers; Jackhammers; Laser Instrument Operators; Nozzleman, Pumpcrete or Shotcrete; Pipelayers.

GROUP 3: Miner; Retimberman

GROUP 3A: Powderman

Tunnel shaft and raise rates only apply to workers regularly employed inside a tunnel portal or shaft collar.

* PLAS0867-004 04/01/2004

	Rates	Fringes
Cement Mason		
North of the 63rd parallel..	\$ 29.54	11.51
South of the 63rd Parallel..	\$ 29.29	11.51

TEAM0959-003 09/01/2003

	Rates	Fringes
Truck Driver		
GROUP 1.....	\$ 32.10	10.07
GROUP 1A.....	\$ 33.15	10.07

GROUP 2.....	\$ 31.05	10.07
GROUP 3.....	\$ 30.37	10.07
GROUP 4.....	\$ 29.90	10.07
GROUP 5.....	\$ 29.26	10.07

GROUP 1: Semi with Double Box Mixer; Dump Trucks (including rockbuggy and trucks with pups) over 40 yards up to and including 60 yards; Deltas, Commanders, Rollogans and similar equipment when pulling sleds, trailers or similar equipment; Boat Coxswain; Lowboys including attached trailers and jeeps, up to and including 12 axles; Ready-mix over 12 yards up to and including 15 yards)

GROUP 1A: Dump Trucks (including Rockbuggy and Trucks with pups) over 60 yards up to and including 100 yards

GROUP 2: Turn-O-Wagon or DW-10 not self-loading; All Deltas, Commanders, Rollogans, and similar equipment; Mechanics; Tireman, heavy duty; Dump Trucks (including Rockbuggy and Trucks with pups) over 20 yards up to and including 40 yards; Lowboys including attached trailers and jeeps up to and including 8 axles; Super vac truck/cacasco truck/heat stress truck; Ready-mix over 7 yards up to and including 12 yards

GROUP 3: Dump Trucks (including Rockbuggy and Trucks with pups) over 10 yards up to and including 20 yards; batch trucks 8 yards and up; Oil distributor drivers; Greaser; Water Wagon (when pulled by Euclid or similar type equipment); Partsman

GROUP 4: Buggymobile; Semi or Truck and trailer; Dumpster; Tireman (light duty); Dump Trucks (including Rockbuggy and Truck with pups) up to and including 10 yards; Track Truck Equipment; Stringing Truck; Fuel Truck; Fuel Handler with truck; Grease Truck; Flat Beds, dual rear axle; Hyster Operators (handling bulk aggregate); Lumber Carrier; Water Wagon, semi; Water Wagon, dual axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame manufactured rating over 5 tons; Bull Lifts and Fork Lifts with Power Boom and Swing attachments, over 5 tons; Front End Loader with Forks; Bus Operator over 30 passengers; All Terrain Vehicles; Boom Truck/Knuckle Truck over 5 tons; Foam Distributor Truck/dual axle; Hydro-seeders, dual axle; Vacuum Trucks, Truck Vacuum Sweepers; Vacuum Trucks, Truck Vacuum Sweepers; Loadmaster (air and water); Air Cushion or similar type vehicle; Fire Truck; Combination Truck-fuel and grease; Compactor (when pulled by rubber tired equipment); Rigger (air/water/oilfield); Ready Mix, up to and including 7 yards

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END OF GENERAL DECISION

SECTION 00800

SPECIAL CONTRACT REQUIREMENTS

I-N-D-E-X

<u>CLAUSE</u>	<u>TITLE</u>	<u>PAGE</u>
SCR-1	COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK See SECTION 00700	00800-1
SCR-2	EXCLUSION OF PERIODS IN COMPUTING COMPLETION SCHEDULES	NOT USED 00800-1
SCR-3	LIQUIDATED DAMAGES-CONSTRUCTION	See SECTION 00700 00800-1
SCR-4	TIME EXTENSIONS	NOT USED 00800-1
SCR-5	CONTRACT DRAWINGS AND SPECIFICATIONS	00800-1
SCR-6	BRAND NAME OR EQUAL	NOT USED 00800-15
SCR-7	CERTIFICATES OF COMPLIANCE	00800-15
SCR-8	SUBMITTALS	00800-15
SCR-9	IDENTIFICATION OF GOVERNMENT-FURNISHED PROPERTY	NOT USED 00800-16
SCR-10	PHYSICAL DATA	00800-16
SCR-11	AVAILABILITY AND USE OF UTILITY SERVICES	See SECTION 00700 00800-16
SCR-12	IDENTIFICATION OF EMPLOYEES AND MILITARY REGULATIONS	00800-17
SCR-13	INSURANCE - WORK ON A GOVERNMENT INSTALLATION	00800-17
SCR-14	SPECIAL SAFETY REQUIREMENTS	NOT USED 00800-17
SCR-15	AIRFIELD SAFETY PRECAUTIONS	NOT USED 00800-17
SCR-16	LAYOUT OF WORK	See SECTION 00700 00800-18
SCR-17	QUANTITY SURVEYS	NOT USED 00800-18
SCR-18	AGGREGATE SOURCES	NOT USED 00800-18
SCR-19	HAUL ROADS	NOT USED 00800-18
SCR-20	CONTRACTOR-PREPARED NETWORK ANALYSIS SYSTEM	NOT USED 00800-18
SCR-21	PERFORMANCE OF WORK BY THE CONTRACTOR	NOT USED 00800-18
SCR-22	SALVAGE MATERIALS AND EQUIPMENT	NOT USED 00800-18
SCR-23	OBSTRUCTION OF NAVIGABLE WATERWAYS	NOT USED 00800-18
SCR-24	SIGNAL LIGHTS	NOT USED 00800-18
SCR-25	COMMUNICATION SECURITY	00800-18

<u>CLAUSE</u>	<u>TITLE</u>	<u>PAGE</u>
SCR-26	PERMITS AND RESPONSIBILITIES	00800-18
SCR-27	SUPERINTENDENCE OF SUBCONTRACTORS	NOT USED 00800-18
SCR-28	PAYMENT FOR MOBILIZATION AND DEMOBILIZATION	See SECTION 00700 00800-18
SCR-29	EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE	See SECTION 00700 00800-18
SCR-30	OPTION FOR INCREASED QUANTITY	00800-18
SCR-31	WORK IN QUARANTINED AREA	NOT USED 00800-19
SCR-32	PRESERVATION OF HISTORICAL, ARCHEOLOGICAL AND CULTURAL RESOURCES	NOT USED 00800-19
SCR-33	PAYMENT FOR MATERIALS DELIVERED OFF-SITE	See SECTION 00700 00800-19
SCR-34	SCHEDULING SYSTEM DATA EXCHANGE FORMAT	NOT USED 00800-19
SCR-35	RESERVED	NOT USED 00800-19
SCR-36	TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER	00800-19
SCR-37	NONDOMESTIC CONSTRUCTION MATERIALS	NOT USED 00800-19
SCR-38	YEAR 2000 COMPLIANCE	00800-19
SCR-39	RESERVED	NOT USED 00800-20
SCR-40	KEY PERSONNEL	NOT USED 00800-20
SCR-41	DESIGN-BUILD CONTRACT - ORDER OF PRECEDENCE	NOT USED 00800-20
SCR-42	PROPOSED BETTERMENTS	NOT USED 00800-20
SCR-43	SEQUENCE OF DESIGN-CONSTRUCTION	NOT USED 00800-20
SCR-44	RESPONSIBILITY OF THE CONTRACTOR FOR DESIGN	NOT USED 00800-20
SCR-45	SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1, U.S. ARMY CORPS OF ENGINEERS	00800-20
SCR-46 THRU SCR-111		NOT USED 00800-20
SCR-112	NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY	See SECTION 00700 00800-20
SCR-113 THRU SCR-114		NOT USED 00800-20

ATTACHMENT: CLIMATOLOGICAL SUMMARY

--End of Special Contract Requirements Index--

SECTION 00800
SPECIAL CONTRACT REQUIREMENTS

SCR-1 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984) (FAR 52.211-10):

See SECTION 00700.

SCR-2 NOT USED

SCR-3 LIQUIDATED DAMAGES-CONSTRUCTION (SEP 2000) (FAR 52.211-12):

See SECTION 00700.

SCR-4 NOT USED

SCR-5 CONTRACT DRAWINGS AND SPECIFICATIONS (Aug 2000) (DFARS 252.236-7001):

(a) thru (d). See SECTION 00700

(e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

Drawing No.	Sheet No.	Title	Rev. No.	Date
		<u>GENERAL</u>		
NONE	00	COVER	NONE	27 JAN 2004
F-178-98-01	00	DRAWING INDEX	"	"
"	00	DRAWING INDEX	"	"
		<u>LOCATION AND VICINTY MAP</u>		
F-16-06-4302	00	PROJECT LOCATION MAPS	"	"
"	00	FTW AND YTA BORROW PIT LOCATION MAP	"	"
		<u>GENERAL</u>		
F-178-98-01	01	STANDARD ABBREVIATIONS	"	"
AM #6...				
"	<u>02</u>	<u>CIVIL LEGEND AND SYMBOLS</u>	<u>6</u>	<u>10 AUG 2004</u>
		<u>CIVIL SITE</u>		
"	<u>03</u>	<u>OVERALL FTW SITE PLAN</u>	"	"
"	04	FTW CLEARING COORDINATES TABLE AND SURVEY CONTROL DATA	NONE	...AM #6 27 JAN 2004

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	05	FTW CLEARING PLAN	NONE	27 JAN 2004
AM #6...				
"	06	FTW CLEARING PLAN	6	10 AUG 2004
				...AM #6
"	07	FTW GENERAL SITE PLAN	NONE	27 JAN 2004
"	08	FTW GENERAL SITE PLAN	"	"
"	09	FTW GENERAL SITE PLAN	"	"
"	10	FTW GENERAL SITE PLAN	"	"
AM #6...				
"	11	FTW GENERAL SITE PLAN	6	10 AUG 2004
				...AM #6
"	12	FTW GENERAL SITE PLAN	NONE	27 JAN 2004
AM #6...				
"	13	FTW GENERAL SITE PLAN	6	10 AUG 2004
				...AM #6
"	14	OVERALL YTA SITE PLAN	NONE	27 JAN 2004
"	15	YTA CLEARING AND THINNING COORDINATES TABLE AND SURVEY CONTROL DATA	"	"
"	16	YTA CLEARING PLAN	"	"
"	17	YTA CLEARING PLAN	"	"
"	18	YTA GENERAL SITE PLAN	"	"
"	19	YTA GENERAL SITE PLAN	"	"
"	20	YTA GENERAL SITE PLAN	"	"
"	21	YTA RANGE DATA SHEET	"	"
"	22	YTA RANGE DATA SHEET	"	"
"	23	FTW BUILDING SITE AND GRADING PLAN - ROC AREA	"	"
"	24	ROC AREA OF FTW SECTIONS	"	"
"	25	BUILDING SITE AND GRADING PLAN - SHOOT HOUSE	"	"
"	26	SHOOT HOUSE SECTIONS	"	"
"	27	BUILDING SITE AND GRADING PLAN - URBAN DEFENSE BUILDING	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	28	URBAN DEFENSE BUILDING SECTIONS	NONE	27 JAN 2004
"	29	FTW BUILDING SITE AND GRADING PLAN - UNDERGROUND TRAINER	"	"
"	30	U-TRAINER SECTIONS	"	"
"	31	FTW BUILDING SITE AND GRADING PLAN - LATRINE	"	"
"	32	LATRINE SECTIONS	"	"
"	33	BUILDING SITE AND GRADING PLAN - URBAN ASSAULT COURSE	"	"
"	34	UAC SECTIONS	"	"
AM #6...				
"	<u>35</u>	<u>FTW BUILDING SITE AND GRADING PLAN - BREACH FACILITY</u>	<u>6</u>	<u>10 AUG 2004</u>
				...AM #6
"	36	FTW BREACH FACILITY SECTIONS	NONE	27 JAN 2004
"	37	FTW BREACH FACILITY SECTIONS	"	"
"	38	YTA BUILDING SITE AND GRADING PLAN - ROC AREA	"	"
"	39	ROC AREA OF YTA SECTIONS	"	"
"	40	MOVING ARMOR TARGET PLAN AND PROFILE	"	"
"	41	FTW ROADWAY CURVE DATA TABLES	"	"
"	42	YTA ROADWAY CURVE DATA TABLES	"	"
"	43	YTA ROADWAY CURVE DATA TABLES	"	"
"	44	FTW AND YTA CULVERT SCHEDULE	"	"
"	45	FTW PIPE PROFILES	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	46	FTW PIPE PROFILES	NONE	27 JAN 2004
"	47	FTW PIPE PROFILES	"	"
"	48	FTW PIPE PROFILES	"	"
"	49	FTW PIPE PROFILES	"	"
"	50	FTW PIPE PROFILES	"	"
"	51	YTA PIPE PROFILES	"	"
"	52	YTA PIPE PROFILES	"	"
"	53	YTA PIPE PROFILES	"	"
		<u>CIVIL ROAD PROFILES</u>		
"	54	FTW ACCESS ROAD 1	"	"
"	55	FTW ACCESS ROAD 1	"	"
"	56	FTW ACCESS ROAD 2	"	"
"	57	FTW ACCESS ROAD 2	"	"
"	58	FTW SHOOT HOUSE ROAD	"	"
"	59	FTW ASSAULT ROAD	"	"
"	60	YTA ACCESS ROAD 1	"	"
"	61	YTA ACCESS ROAD 1	"	"
"	62	YTA ACCESS ROAD 1	"	"
"	63	YTA ACCESS ROAD 1	"	"
		<u>CIVIL CROSS SECTIONS</u>		
"	64	FTW ACCESS ROAD 1	"	"
"	65	FTW ACCESS ROAD 1	"	"
"	66	FTW ACCESS ROAD 1	"	"
"	67	FTW ACCESS ROAD 2	"	"
"	68	FTW ACCESS ROAD 2	"	"
"	69	FTW SHOOT HOUSE ROAD	"	"
"	70	FTW ASSAULT ROAD	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	71	YTA ACCESS ROAD 1	NONE	27 JAN 2004
"	72	YTA ACCESS ROAD 1	"	"
"	73	YTA ACCESS ROAD 1	"	"
		<u>CIVIL COMMON DETAILS</u>		
"	74	TYPICAL ROAD, TRAIL AND PARKING SECTIONS	"	"
"	75	MOVING ARMOR TARGET (MAT) EMPLACEMENT	"	"
"	76	MOVING ARMOR TARGET (MAT) DETAILS	"	"
"	77	STATIONARY ARMOR TARGET (SAT) AND DOWN RANGE POWER CENTER EMPLACEMENT	"	"
"	78	EMPLACEMENT COVER DETAILS	"	"
"	79	STATIONARY INFANTRY TARGET (SIT) EMPLACEMENT AND SECTIONS AND HOSTILE FIRE SIMULATOR	"	"
"	80	MOVING INFANTRY TARGET (MIT) EMPLACEMENT, SECTIONS, AND DETAILS	"	"
"	81	MACHINE GUN/OBSERVATION BUNKER	"	"
"	82	TRENCH 1 AND 2 LAYOUTS	"	"
"	83	TRENCH SECTION AND DETAIL	"	"
"	84	FLIR CAMERA TOWER DETAILS	"	"
"	85	FLIR CAMERA TOWER ASSEMBLIES (2 BOLT FOOTPAD)	"	"
"	86	FLAGPOLE DETAILS	"	"
"	87	FENCE DETAILS	"	"
"	88	FENCE DETAILS	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	89	FENCE AND GATE DETAILS	NONE	27 JAN 2004
"	90	SECURITY GATE DETAILS	"	"
"	91	DRAINAGE DETAILS	"	"
"	92	CHANNEL LINING DETAIL	"	"
"	93	INFANTRY SQUAD BATTLE COURSE UNDERGROUND TRAINER AND MANHOLE DETAILS	"	"
"	94	GRENADIER GUNNERY TRAINER DETAILS	"	"
"		<u>EROSION CONTROL</u>		
"	95	EROSION CONTROL DETAILS	"	"
"	96	EROSION CONTROL DETAILS	"	"
"	97	EROSION CONTROL DETAILS	"	"
"	98	EROSION CONTROL - SECTIONS AND DETAILS	"	"
		<u>ARCHITECTURAL</u>		
"	99	ARCHITECTURAL ABBREVIATIONS	"	"
"	100	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING - FLOOR PLAN, DOOR AND FINISH SCHEDULES	"	"
"	101	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING - EXTERIOR ELEVATIONS AND ROOF PLAN	"	"
"	102	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING - EXTERIOR ELEVATIONS AND SECTION	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	103	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING - BUILDING SECTION AND DETAILS	NONE	27 JAN 2004
"	104	TYPICAL SECTIONS AND DETAILS	"	"
"	105	TYPICAL SECTIONS AND DETAILS	"	"
"	106	COMBINED RANGE OPERATIONS GENERAL INSTRUCTION BUILDING - FLOOR PLAN, DOOR AND FINISH SCHEDULES	"	"
"	107	COMBINED RANGE OPERATIONS GENERAL INSTRUCTION BUILDING - EXTERIOR ELEVATIONS	"	"
"	108	COMBINED RANGE OPERATIONS GENERAL INSTRUCTION BUILDING - EXTERIOR ELEVATIONS	"	"
"	109	LATRINE FLOOR PLAN, ELEVATIONS, DOOR AND FINISH SCHEDULE	"	"
"	110	LATRINE BUILDING SECTION	"	"
"	111	GENERAL INSTRUCTION BUILDING - FLOOR PLAN, ROOF PLAN, DOOR AND FINISH SCHEDULES	"	"
"	112	GENERAL INSTRUCTION BUILDING - EXTERIOR ELEVATIONS	"	"
"	113	GENERAL INSTRUCTION BUILDING - EXTERIOR ELEVATIONS AND BUILDING SECTION	"	"
"	114	WARM-UP BUILDING - FLOOR PLAN, ROOF PLAN, DOOR AND FINISH SCHEDULES	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	115	WARM-UP BUILDING - EXTERIOR ELEVATIONS	NONE	27 JAN 2004
"	116	WARM-UP BUILDING - EXTERIOR ELEVATIONS AND BUILDING SECTION	"	"
"	117	SHOOT HOUSE - FLOOR PLAN	"	"
"	118	SHOOT HOUSE - EXTERIOR ELEVATIONS	"	"
"	119	SHOOT HOUSE - EXTERIOR ELEVATIONS	"	"
"	120	SHOOT HOUSE - BUILDING SECTION	"	"
"	121	SHOOT HOUSE - TYPICAL SECTIONS AND DETAILS	"	"
"	122	CLEARING TECHNIQUES BUILDING - FLOOR PLAN AND ELEVATIONS	"	"
"	123	CLEARING TECHNIQUES BUILDING - EXTERIOR ELEVATIONS	"	"
"	124	CLEARING TECHNIQUES BUILDING - EXTERIOR ELEVATIONS	"	"
"	125	SQUAD & PLATOON TASK - TECHNIQUE TRAINER - BASE AND ELEVATED FLOOR PLAN	"	"
"	126	SQUAD & PLATOON TASK - TECHNIQUE TRAINER - BASE FLOOR PLAN	"	"
"	127	SQUAD & PLATOON TASK - TECHNIQUE TRAINER - EXTERIOR ELEVATIONS	"	"
"	128	SQUAD & PLATOON TASK - TECHNIQUE TRAINER - EXTERIOR ELEVATIONS	"	"
"	129	SQUAD & PLATOON TASK - TECHNIQUE TRAINER - SECTIONS AND DETAILS	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	130	GRENADIER - GUNNERY TRAINER - FLOOR PLANS, EXTERIOR ELEVATIONS AND SECTION	NONE	27 JAN 2004
"	131	URBAN DEFENSE BUILDING - BASEMENT, FIRST FLOOR, ROOF AND ROOF FRAMING PLANS	"	"
"	132	URBAN DEFENSE BUILDING - SECOND FLOOR AND ROOF PLANS	"	"
"	133	URBAN DEFENSE BUILDING - EXTERIOR ELEVATIONS	"	"
"	134	URBAN DEFENSE BUILDING - DOOR AND FINISH SCHEDULES	"	"
"	135	URBAN DEFENSE BUILDING - BUILDING SECTIONS AND DETAILS	"	"
"	136	URBAN DEFENSE BUILDING - BUILDING SECTIONS AND DETAILS	"	"
"	137	URBAN DEFENSE BUILDING - BUILDING SECTIONS AND DETAILS	"	"
"	138	URBAN DEFENSE BUIDLING - TYPICAL DETAILS	"	"
"	139	BREACH FACILITY - STATION 1 - PLAN, ELEVATION AND DETAIL	"	"
"	140	BREACH FACILITY - STATION 2 - PLAN, ELEVATION AND DETAIL	"	"
"	141	BREACH FACILITY - STATION 3 - PLAN, ELEVATION AND DETAIL	"	"
		<u>STRUCTURAL</u>		
"	142	GENERAL NOTES	"	"
"	143	ABBREVIATIONS	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	144	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING - FOUNDATION PLAN	NONE	27 JAN 2004
"	145	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING - FLOOR PLAN	"	"
"	146	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING - ROOF FRAMING PLAN	"	"
"	147	COMBINED RANGE OPERATIONS CENTER AND GENERAL INSTRUCTION BUILDING FOUNDATION PLAN	"	"
"	148	COMBINED RANGE OPERATIONS CENTER AND GENERAL INSTRUCTION BUILDING - FLOOR FRAMING PLAN	"	"
"	149	COMBINED RANGE OPERATIONS CENTER AND GENERAL INSTRUCTION BUILDING - ROOF FRAMING PLAN	"	"
"	150	LATRINE - FOUNDATION, FLOOR & ROOF FRAMING PLANS	"	"
"	151	GENERAL INSTRUCTION BUILDING - FOUNDATION AND FLOOR FRAMING PLANS	"	"
"	152	GENERAL INSTRUCTION BUILDING - ROOF FRAMING PLANS	"	"
"	153	WARM-UP BUILDING - FOUNDATION AND FLOOR FRAMING PLANS	"	"
"	154	WARM-UP BUILDING - ROOF FRAMING PLANS	"	"
"	155	SHOOT HOUSE - FOUNDATION PLAN	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	156	SHOOT HOUSE - ROOF FRAMING AND CATWALK PLAN	NONE	27 JAN 2004
"	157	CLEARING TECHNIQUES BUILDING - FOUNDATION PLAN	"	"
"	158	CLEARING TECHNIQUES BUILDING - ROOF FRAMING	"	"
"	159	SQUAD & PLATOON TASK - TECHNIQUE TRAINER FOUNDATION AND SECOND FLOOR PLANS	"	"
"	160	SQUAD & PLATOON TASK - TECHNIQUE TRAINER FOUNDATION PLAN	"	"
"	161	GRENADIER - GUNNERY TRAINER FOUNDATION PLAN	"	"
"	162	URBAN DEFENSE BUILDING - FOUNDATION PLAN AND FIRST FLOOR PLAN	"	"
"	163	URBAN DEFENSE BUILDING - SECOND FLOOR PLAN AND ROOF FRAMING PLAN	"	"
"	164	URBAN DEFENSE BUILDING - HIGH ROOF FRAMING PLAN	"	"
"	165	BREACH FACILITY - STATION 1 PLAN AND ELEVATION	"	"
"	166	BREACH FACILITY - STATION 2 PLAN AND ELEVATION	"	"
"	167	BREACH FACILITY - STATION 3 PLAN AND ELEVATION	"	"
"	168	STEEL FRAME ELEVATIONS	"	"
"	169	CONCRETE DETAILS	"	"
"	170	URBAN DEFENSE BUILDING - CONCRETE DETAILS	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	171	TYPICAL DETAILS	NONE	27 JAN 2004
"	172	DETAILS	"	"
"	173	MASONRY WALL DETAILS	"	"
"	174	MASONRY WALL REINFORCING SCHEDULE AND TYPICAL DETAILS	"	"
"	175	MASONRY WALL REINFORCING SCHEDULE AND TYPICAL DETAILS	"	"
"	176	DETAILS	"	"
"	177	MOMENT FRAME DETAILS	"	"
"	178	STEEL DETAILS	"	"
"	179	DETAILS	"	"
"	180	DETAILS	"	"
"	181	DETAILS	"	"
"	182	DETAILS	"	"
"	183	DETAILS	"	"
"	184	SQUAD AND PLATOON TASK - TECHNIQUE TRAINER SECTIONS AND DETAILS	"	"
"	185	DETAILS	"	"
"	186	DETAILS	"	"
		<u>MECHANICAL</u>		
"	187	HVAC SCHEDULES & DETAILS	"	"
"	188	WARMUP, GENERAL INSTRUCTION AND LATRINE BUILDING MECHANICAL PLANS	"	"
"	189	COMBINED AFTER ACTON REVIEW AND OPERATIONS STORAGE BUILDING MECHANICAL PLAN	"	"
"	190	HVAC SCHEDULES AND DETAILS	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
		<u>PLUMBING</u>		
F-178-98-01	191	LATRINE FLOOR PLAN, PLUMBNG LEGEND AND SCHEDULE	NONE	27 JAN 2004
		<u>ELECTRICAL</u>		
"	192	ELECTRICAL SITE PLAN - FORT WAINRIGHT	"	"
"	193	ELECTRICAL SITE PLAN - FORT WAINRIGHT	"	"
"	194	ELECTRICAL SITE PLAN - FORT WAINRIGHT	"	"
"	195	ELECTRICAL SITE PLAN - YUKON TRAINING AREA	"	"
"	196	ELECTRICAL SITE PLAN - YUKON TRAINING AREA	"	"
"	197	SINGLE LINE DIAGRAMS - YUKON TRAINING AREA	"	"
"	198	FORT WAINWRIGHT - SINGLE LINE DIAGRAM	"	"
"	199	YUKON TRAINING AREA - SINGLE LINE DIAGRAM	"	"
"	200	FIBER OPTIC CABLING RISER DIAGRAM	"	"
"	201	ELECTRICAL POLE DETAILS	"	"
"	202	ELECTRICAL DETAILS	"	"
"	203	ELECTRICAL TARGET EMPLACEMENT DETAILS	"	"
"	204	ELECTRICAL TARGET EMPLACEMENT DETAILS	"	"
"	205	ELECTRICAL PANEL SCEDULES - YUKON TRAINING AREA	"	"
"	206	ELECTRICAL DETAILS	"	"
"	207	ELECTRICAL DETAILS	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	208	ELECTRICAL LEGEND AND LIGHTING FIXTURE SCHEDULES	NONE	27 JAN 2004
"	209	LIGHTING FIXTURE DETAILS	"	"
"	210	LIGHTING FIXTURE DETAILS	"	"
"	211	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING ELECTRICAL PLAN	"	"
"	212	COMBINED AFTER ACTION REVIEW AND OPERATIONS STORAGE BUILDING ELECTRICAL PLAN	"	"
"	213	COMBINED RANGE OPERATIONS CENTER AND GENERAL INSTRUCTION BUILDING ELECTRICAL PLAN	"	"
"	214	SINGLE LINE DIAGRAMS	"	"
"	215	GENERAL INSTRUCTION BUILDING ELECTRICAL PLAN	"	"
"	216	WARM-UP BUILDING ELECTRICAL PLANS	"	"
"	217	ELECTRICAL FLOOR PLAN - LATRINE BUILDING	"	"
"	218	ELECTRICAL FLOOR PLAN - SHOOTHOUSE	"	"
"	219	ELECTRICAL FLOOR PLAN - SHOOTHOUSE	"	"
"	220	URBAN DEFENSE BUILDING ELECTRICAL PLANS	"	"
"	221	URBAN DEFENSE BUILDING ELECTRICAL PLANS	"	"
"	222	CLEARING TECHNIQUES BUILDING ELECTRICAL PLAN	"	"

Drawing No.	Sheet No.	Title	Rev. No.	Date
F-178-98-01	223	SQUAD & PLATOON TASK - TECHNIQUE TRAINER ELECTRICAL FLOOR PLANS	NONE	27 JAN 2004
"	224	SQUAD & PLATOON TASK - TECHNIQUE TRAINER ELECTRICAL FLOOR PLANS	"	"
"	225	ELECTRICAL SITE PLAN - FORT WAINRIGHT	"	"
"	226	GREDNADIER - GUNNERY TRAINER FLOOR PLANS, EXTERIOR	"	"
"	227	FLOOR AND WALL MOUNT COMMUNICATIONS EQUIPMENT CABINET (CEC) LAYOUT	"	"
"	228	FLOOR AND WALL MOUNT COMMUNICATIONS EQUIPMENT CABINET (CEC) TYPICAL DETAILS	"	"

SCR-6 NOT USED

SCR-7 CERTIFICATES OF COMPLIANCE:

Any certificates required for demonstrating proof of compliance of materials with specification requirements shall be executed in 3 copies. Each certificate shall be signed by an official authorized to certify in behalf of the manufacturing company and shall contain the name and address of the

Contractor, the project name and location, and the quantity and date or dates of shipment or delivery to which the certificates apply. Copies of laboratory test reports submitted with certificates shall contain the name and address of the testing laboratory and the date or dates of the tests to which the report applies. Certification shall not be construed as relieving the Contractor from furnishing satisfactory material, if, after tests are performed on selected samples, the material is found not to meet the specific requirements.

SCR-8 SUBMITTALS (ER 415-1-10, 30 May 1995):

Within 30 days after receipt of Notice to Proceed, the Contractor shall complete and submit to the Contracting Officer, in triplicate, submittal register ENG Form 4288 listing all submittals and dates. In addition to those items listed on ENG Form 4288, the Contractor shall furnish submittals for any deviation from the plans or specifications. The scheduled need dates must be recorded on the document for each item for control purposes. In preparing the document, adequate time (minimum of 30 days) shall be allowed for review and, only when stipulated, approval and possible resubmittal. Scheduling shall be coordinated with the approved progress schedule. The Contractor's Quality Control representative shall review the listing at least

every 30 days and take appropriate action to maintain an effective system. Copies of updated or corrected listing shall be submitted to the Contracting Officer at least every 60 days in the quantity specified. Payment will not be made for any material or equipment which does not comply with contract requirements.

SECTION 01330 SUBMITTAL PROCEDURES includes an ENG Form 4288 listing technical items the Contractor shall submit to the Contracting Officer, as indicated in the contract requirements.

SCR-9 NOT USED

SCR-10 FORT WAINWRIGHT PHYSICAL DATA (APR 1984): Data and information furnished or referred to below are furnished for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

a. The indications of physical conditions on the drawings and in the specifications are the result of site investigation.

b. Location: Fort Wainwright is located adjacent to, and southeast of Fairbanks, Alaska.

c. Transportation:

(1) Water: Commercial cargo service is available from West Coast port cities of the mainland states to the Alaska ports of Anchorage, Valdez, Whittier and Seward.

(2) Truck: Truck service is available to Fairbanks from the port cities of Anchorage, Valdez, and Seward, Alaska, and from the 48 contiguous states over the Alaska Highway.

(3) Railroad: The Alaska Railroad offers freight service from the 48 contiguous states and Canada via rail barge and trainship through Whittier, and from Seward, to Anchorage and Fairbanks. In addition to the freight service, scheduled passenger service and express service between Anchorage and Fairbanks, and passenger service between Anchorage and Whittier are also available. Fairbanks (including Eielson AFB and Ft. Wainwright) is the northern terminus, and Seward and Whittier are the southern terminals of the Alaska Railroad.

(4) Air: Commercial airlines operate to Fairbanks, Alaska.

d. Communications: Telephone communications and services for the Contractor's use are the responsibility of the Contractor. The Contractor shall make all arrangements and payment for telephone service. Contact Alaska Communications Systems, 1-800-478-3081. The Government does not guarantee the adequacy or efficiency of the service or the number of telephones that can be assigned to the Contractor.

e. Weather Data: A Climatological Summary for Fort Wainwright is attached to the end of this section.

SCR-11 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984) (FAR 52.236-14):

See SECTION 00700.

SCR-12 IDENTIFICATION OF EMPLOYEES AND MILITARY REGULATIONS:

(a) The Contractor shall be responsible for compliance with all regulations and orders of the Commanding Officer of the Military Installation, respecting identification of employees, movements on installation, parking, truck entry, and all other military regulations which may affect the work.

(b) The work under this contract is to be performed at an operating Military Installation with consequent restrictions on entry and movement of non-military personnel and equipment.

SCR-13 INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997) (FAR 52.228-5):

(a) The Contractor shall, at its own expense, provide and maintain during the entire performance of this contract, at least the following kinds and minimum amounts of insurance:

(1) Workman's Compensation and Employers' Liability Insurance: \$100,000.00.

(2) General Liability Insurance: A Bodily Injury, Comprehensive policy which provides \$500,000.00 per occurrence.

(3) Automobile Liability Insurance: A comprehensive policy which provides \$200,000.00 per person and \$500,000.00 per occurrence for bodily injury and \$20,000.00 per occurrence for property damage, covering the operation of its automobiles used in connection with the performance of the contract.

(4) Aircraft Public and Passenger Liability Insurance: Where aircraft are used in connection with the performance of the contract; \$200,000.00 per person, \$500,000.00 per occurrence for bodily injury, other than passenger liability, and \$200,000.00 per occurrence for property damage; \$200,000.00 per person for passenger liability bodily injury aggregate equal to the total number of seats or number of passengers, whichever is greater.

(5) Vessel Collision Liability and Protection and Indemnity Liability Insurance: Where vessels are used in connection with the performance of the contract.

(b) Before commencing the work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective (1) for such period as the laws of the State in which this contract is to be performed prescribe, or (2) until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

(c) The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required above. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the Contracting Officer upon request.

SCR-16 LAYOUT OF WORK (APR 1984) (FAR 52.236-17):

See SECTION 00700.

SCR-17 THRU SCR-24 NOT USED

SCR-25 COMMUNICATION SECURITY:

All communications with DOD organizations are subject to COMSEC review. Contractor personnel shall be aware that telecommunications networks are continually subject to intercept by unfriendly intelligence organizations. The DOD has authorized the military departments to conduct COMSEC monitoring and recording of telephone calls originating from or terminating at DOD organizations. Therefore, civilian Contractor personnel are advised that any time they place a call to or receive a call from Alaska District offices or Resident Engineer offices located on military installations, they are subject to COMSEC procedures. The Contractor will assume the responsibility for ensuring wide and frequent dissemination of the above information to all employees dealing with official DOD information.

SCR-26 PERMITS AND RESPONSIBILITIES:

The Government has obtained the following permits/licenses related to the construction of this project:

Wetlands Permit

Range borrow pit south of Richardson Highway (requires 30.48 m boom to get the most out of the pit. May expand pit 45.05 hectares to extract up to 573,416 cu. m of gravel. Prepare closure plan, no access on Wedsdays.)

It will be the responsibility of the Contractor to obtain all other permits/licenses required for this project as required under the Contract Clause paragraph entitled PERMITS AND RESPONSIBILITIES.

SCR-27 NOT USED

SCR-28 PAYMENT FOR MOBILIZATION AND DEMOBILIZATION (DEC 1991) (DFARS 252.236-7004):

See SECTION 00700. Applies to Yukon Training Area portion of project.

SCR-29 EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE (1999 JUNE HQ USACE) (EFARS 52.231-5000):

See SECTION 00700.

SCR-30 OPTION FOR INCREASED QUANTITY

a. The Government may increase the quantity of work awarded by exercising Optional Items 0004 thru 0009 at any time, or not at all, but no later than 90 calendar days after NTP. Notice to Proceed on work added by exercise of the option will be given upon execution of consent of surety.

b. The parties hereto further agree that any options herein shall be considered as having been exercised at the time the Government deposits written notification to the Contractor in the mails.

c. Optional items awarded shall be completed within the time period for completion of the base items, as stated in SCR-1.

SCR-31 AND SCR-32 NOT USED

SCR-33 PAYMENT FOR MATERIALS DELIVERED OFF-SITE (1995 MAR HQ USACE) (EFARS 52.232-5000):

See SECTION 00700.

SCR-34 AND SCR-35 RESERVED

SCR-36 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER (ER 415-1-15, 31 Oct 1989):

1. This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with the Contract Clause entitled "DEFAULT (FIXED PRICE CONSTRUCTION)". In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

a. The weather experienced at the project site during the contract period must be found to be unusually severe; that is, more severe than the adverse weather anticipated for the project location during any given month.

b. The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

2. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

Monthly Anticipated Adverse Weather Delay Work Days Based on a 5-Day Work Week

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
22	20	21	0	0	1	1	1	0	10	21	22

3. Upon acknowledgement of the Notice to Proceed and continuing throughout the contract, the Contractor shall record on the daily CQC report, the occurrence of adverse weather and the resultant impact to normally scheduled work. Actual adverse weather delays days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled workday. The number of actual adverse weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day in each month, and be recorded as full days. If the number of actual adverse weather days exceeds the number of days anticipated in Paragraph 2, above, the Contracting Officer will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather workdays, and issue a modification in accordance with the Contract Clause entitled "DEFAULT (FIXED-PRICE CONSTRUCTION)".

SCR-37 NOT USED

SCR-38 YEAR 2000 COMPLIANCE (OCT 1997) (FAR 39.106):

In accordance with FAR 39.106, the Contractor shall ensure that with respect to any design, construction, goods, or services under this contract as well as any subsequent task/delivery orders issued under this contract (if applicable), all information technology contained therein shall be Year 2000 compliant. Specifically, the Contractor shall:

(1) Perform, maintain, and provide an inventory of all major components to include structures, equipment, items, parts, and furnishings under this contract and each task/delivery order which may be affected by the Year 2000 compliance requirement.

(2) Indicate whether each component is currently Year 2000 compliant or requires an upgrade for compliance prior to Government acceptance.

SCR-39 THRU SCR-44 NOT USED

SCR-45 SAFETY AND HEALTH REQUIREMENTS MANUAL, EM 385-1-1, U.S. ARMY CORPS OF ENGINEERS:

EM 385-1-1 and its changes are available at <http://www.hq.usace.army.mil> (at the HQ homepage, select Safety and Occupational Health).

The Contractor shall be responsible for complying with the current edition and all changes posted on the web (see web address above) as of the effective date of this solicitation and shall comply with the version in effect on the contract award date. This EM 385-1-1 shall remain in effect throughout the life of the contract.

SCR-46 THRU SCR-111 NOT USED

SCR-112 NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY FOR CONSTRUCTION (FEB 1999) (FAR 52.222-23):

See SECTION 00700.

SCR-113 AND SCR-114 NOT USED

**ATTACHMENT: CLIMATOLOGICAL SUMMARY
POST POLICY LETTER #24, ACCESS CONTROL**

CLIMATOLOGICAL SUMMARY

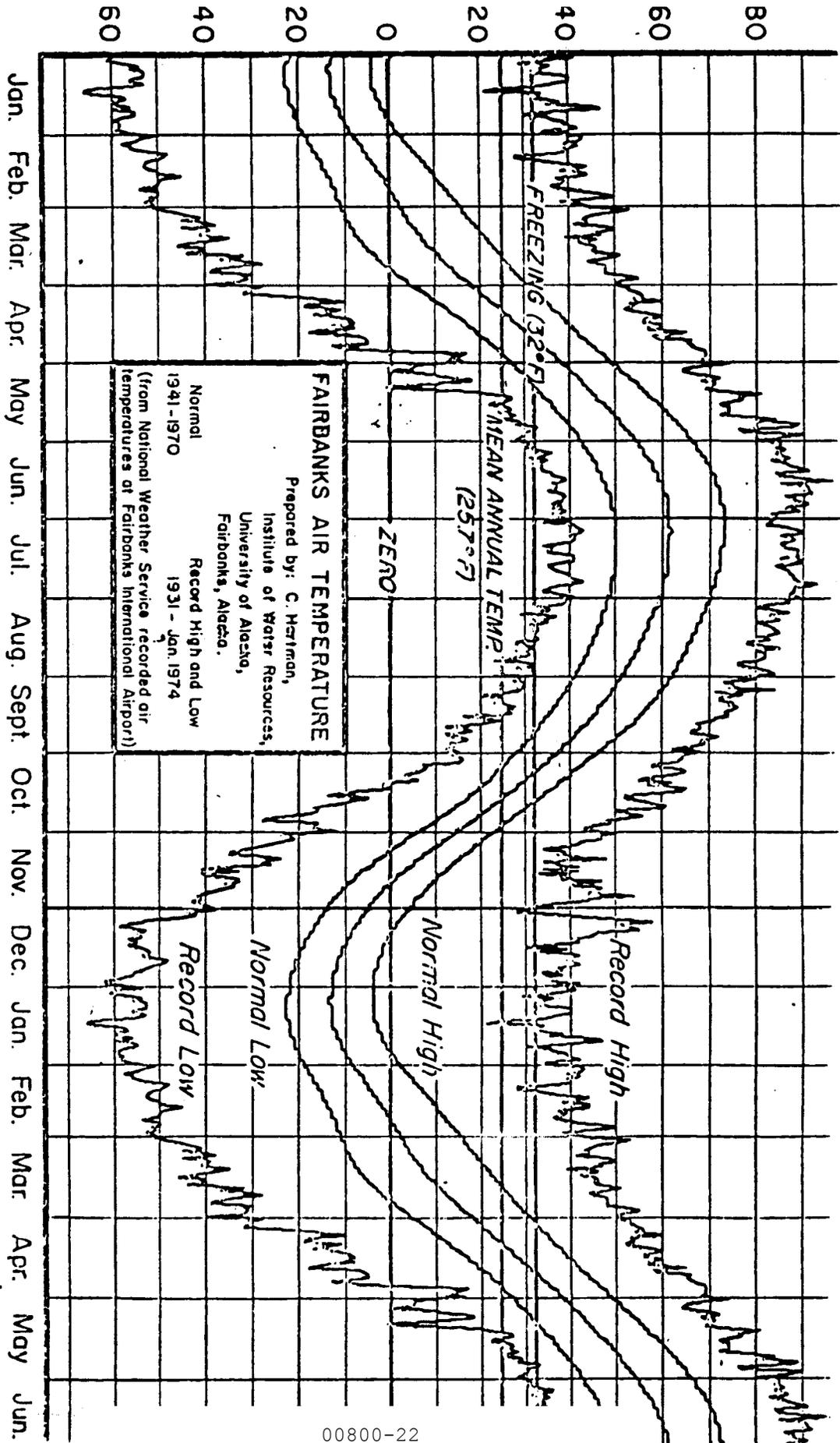
FT. WAINWRIGHT (Period of record exceeds 25 years)

MEANS AND EXTREMES FOR PERIOD OF RECORD

Temperature	Mean Annual	25.9° F		
	Highest Recorded	95.0° F		
	Lowest Recorded	-62.0° F		
	Maximum Freezing Index	6464 degree days (1950-51)		
	Maximum Thawing Index	3568 degree days (1953)		
Precipitation	Mean Annual	12.67"		
	Mean Annual Snowfall	41.8"		
	Maximum Monthly	4.31" July 1948		
	Maximum Monthly Mean	2.27" Aug		
	Maximum Rainfall During 24 hr Period	2.33" Aug		
	Maximum Snowfall During 24 hr Period	15.5" Jan		
	Maximum Monthly Snowfall	27.7" Dec 1955		
Wind	Mean Hourly Speed	4.6 mph		
	Prevailing Direction	ENE 7.2% (calm 32%)		
	Maximum Velocity	61 mph		
	Direction Maximum Velocity	SW		
Annual Mean Number of Days	Sunrise to Sunset	Clear	72	
		Partly Cloudy	90	
		Cloudy	203	
	Precipitation 0.01 inch or more		101	
		Snow, Sleet, or Hail 1.0 inch or more	19	
		Heavy Fog 0 - 3/4 mile visibility for 3/4 of the time		
		Thunderstorms	5	
	Annual Mean Temp	Max	70°	46
		Temp	32°	157
		Min	32°	229
Temp		Zero	123	

NPA Form 3
AUG 1958

W911KB-04-B-0002, AMENDMENT #R0006



W911KB-04-B-0002, AMENDMENT #R0006



DEPARTMENT OF THE ARMY

POST COMMANDER'S OFFICE

1060 GAFFNEY ROAD #6000

FORT WAINWRIGHT, ALASKA 99703-6000

REPLY TO THE
ATTENTION OF:

APVR-WLE-PM

27 November 2001

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Post Policy Letter #24, Access Control Rosters for Entry to Fort Wainwright

1. Effective immediately, all access control rosters for entry onto the Fort Wainwright Military Reservation will be prepared and submitted in accordance with the procedures outlined in this policy letter. Each directorate/activity/unit/organization (DOL, DPW, DCA, BLM, et cetera) is responsible for submitting their own access rosters and for submission of updates and changes in their respective rosters.

2. Access rosters will be submitted in the following manner:

a. Prepare using a pre-formatted spreadsheet provided by PMO. Use the following data fields:

- (1) Last Name
- (2) First Name
- (3) Company, Group, or Team
- (4) End of Contract Date or End of Access Date

b. Any additions will be highlighted in blue, and any deletions will be highlighted in red. Once a change has been submitted, remember to change your roster and return the text to normal.

c. Send spreadsheet via electronic mail to pmocat@wainwright.army.mil. Send the signed, original paper copy to the FWA Provost Marshal Office, ATTN: SPC Newsom, PMO Admin, 353-7552.

d. The Master Access Roster at Main Gate and Trainer Gate is updated twice daily at 0900 and 1500 hours. Your roster must be submitted at least 24 hours prior in order to be included in that update.

3. Non-DoD-affiliated Personnel.

a. For groups and individuals from off-Post (e.g., sports teams, special events, CPAC) requesting access to Fort Wainwright facilities, to include activities other than MWR, the

procedure is the same as above with the following additional requirement: Contact the directorate/activity/unit/organization that is responsible for the facility (e.g., DCA for access to APVR-WLE-PM

SUBJECT: Post Policy Letter #24, Access Control Rosters for Entry to Fort Wainwright

Youth Services). Coordination for access can only be accomplished through the responsible agency. The responsible agency will prepare the access roster for the off-Post group and submit it according to the procedure described in paragraph 2.

b. Individuals requesting access to MWR activities (e.g., Birch Hill Ski/Snowboard Area, Chena Bend Golf Course, et cetera) must enter at the Main Gate. All members of the group will log in at the Visitors' Center. The driver and anyone 18 years of age and older must show a drivers license. The driver must provide valid vehicle registration. A daily MWR pass will be issued, and the vehicle will be searched. The pass is valid for the day of issue only, and the procedure will be followed each time the vehicle enters Post. Access will granted no earlier than 60 minutes prior to the opening time of the activity/facility. Exit from Post will be within 60 minutes of activity/facility closing time. Individuals who are issued MWR passes who are discovered deviating from the authorized route will have their privileges revoked and be subject to bar from the installation.

4. In the event that the Force Protection Condition (FPCON) Level is elevated to DELTA, this policy becomes void; no public access to MWR activities/facilities will be authorized.

5. The Post Commander is the final approving authority for access to Post. Inclusion on an access roster does not guarantee access to Post. The Post Commander may deny entry to anyone at any time. Access may be limited to times and dates as specified by the Post Commander.

6. Point of Contact (POC) for this memorandum is CPT Martin, Fort Wainwright Provost Marshal, 353-7889.

*// ORIGINAL SIGNED BY
LTC MICHAEL T. MEEKS
FOR //*

VICTORIA M. BRUZESE
LTC, EN
Post Commander

DISTRIBUTION:
A (FWA)

 **This notice of authorization must be conspicuously displayed at the site of work.**

United States Army Corps of Engineers
TANANA RIVER 222

2004

DISCHARGE 93,457 CUBIC YARDS OF FILL MATERIAL INTO 26.4 ACRES OF WETLANDS TO CONSTRUCT A MODIFIED MILITARY OPERATIONS IN URBAN TERRAIN FACILITY CONSISTING OF A BREACH FACILITY, URBAN ASSUALT

A permit to COURSE, SHOOT HOUSE, ALONG WITH SUPPORT FACILITIES

at THE SMALL ARMS COMPLEX WITHIN SECTIONS 20 AND 29, TOWNSHIP 1 SOUTH, RANGE 1 EAST, FAIRBANKS MERIDIAN. FAIRBANKS, ALASKA.

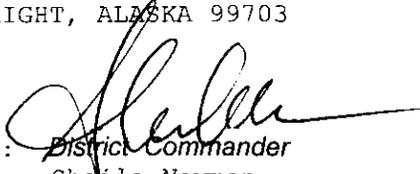
has been issued to UNITED STATES ARMY FORT WAINWRIGHT

on 19 FEBRUARY **2004**

Address of Permittee BLDG. 3105, FORT WAINWRIGHT, ALASKA 99703

Permit Number

4-2002-1098

FOR: 
District Commander
Sheila Newman
Regulatory Project Manager
NORTH SECTION

W911KB-04-B-0002, Amendment # R0006

REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
3437 AIRPORT WAY
SUITE 206 WASHINGTON PLAZA
FAIRBANKS, ALASKA 99709-4777

February 20, 2004

Regulatory Branch
North Section
POA-2004-226

Ms. Debbie Lipyanic
ITAM/NR Coordinator
Public Works
APVR-WPW-GE (LIPYANIC)
1060 Gaffney Road
Fort Wainwright, Alaska 99703

Dear Ms. Lipyanic:

Enclosed is the signed Department of the Army permit 4-2002-1098, Tanana River 222, authorizing the discharge of 93,457 cubic feet of unclassified fill material into 26.4 acres of wetlands in Fort Wainwright, Alaska. Also enclosed is a Notice of Authorization which should be posted in a prominent location near the authorized work.

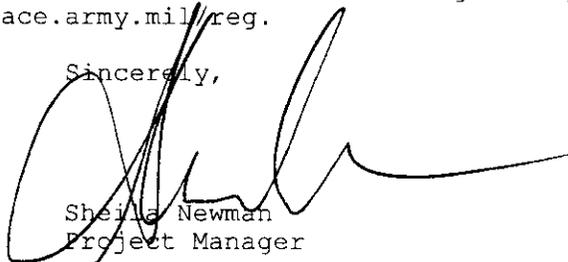
If changes in the plans or location of the work are necessary for any reason, plans should be submitted to this office promptly. Federal law requires approval before construction is begun; if the changes are unobjectionable, approval will be issued without delay.

Nothing in this letter shall be construed as excusing you from compliance with other Federal, State, or local statutes, ordinances, or regulations which may affect the proposed work.

Please take a moment to complete and return the enclosed questionnaire. Our interest is to see how we can continue to improve our service to you, our customer, and how best to achieve these improvements. Upon your request, you may also provide additional comments by telephone or a meeting. We appreciate your efforts and interest in evaluating the regulatory program.

Please contact me at (907) 474-2166, or by mail at the address above, if you have questions. For additional information about our Regulatory Program, visit our web site at www.poa.usace.army.mil/reg.

Sincerely,



Sheila Newman
Project Manager

Enclosures (s)

REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
3437 AIRPORT WAY
SUITE 206 WASHINGTON PLAZA
FAIRBANKS, ALASKA 99709-4777

February 4, 2004

Regulatory Branch
North Section
4-2002-1098

Ms. Deb M. Lipyanic
Public Works Building 3023
Fort Wainwright, Alaska 99703

Dear Ms. Lipyanic:

Enclosed are two copies of Department of the Army permit 4-2002-1098, Tanana River 222, which would authorize discharge of 93,457 cubic feet of unclassified fill material into 26.4 acres of wetlands in Fort Wainwright, Alaska.

The Alaska Department of Environmental Conservation has issued a Certificate of Reasonable Assurance pursuant to Section 401 of the Clean Water Act for your project and they have found it to be in accordance with the Alaska Water Quality Standards. This certification is attached to the Department of the Army permit and will become a part of the permit when it is finalized.

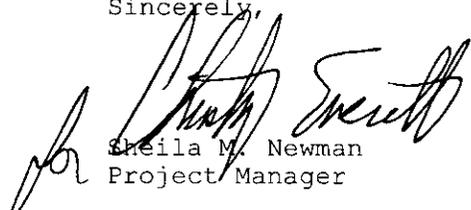
Additionally, we have enclosed a Notification of Administrative Appeals Options and Process and Request for Appeal form regarding this Department of the Army Permit (see section labeled "Initial Proffered Permit").

If you accept the conditions of the enclosed permit, please sign and date both copies and return them to us. The permit will not be valid until we have returned a finalized copy to you. It should be understood that this is not an authorization to commence construction. No work is to be performed in the waterway or adjacent wetlands until you have received a validated copy of the permit.

Nothing in this letter shall be construed as excusing you from compliance with other Federal, State, or local statutes, ordinances, or regulations which may affect this work.

Please contact me at (907) 474-2166, or at the address above, if you have questions concerning this matter. For additional information about our Regulatory Program, visit our web site at www.poa.usace.army.mil/reg.

Sincerely,



Sheila M. Newman
Project Manager

Enclosures

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: US Army at Fort Wainwright

File Number: 4-2002-1098

Date: 04FEB04

Attached is:

See Section below

XXX INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)
 PROFFERED PERMIT (Standard Permit or Letter of permission)
 PERMIT DENIAL
 APPROVED JURISDICTIONAL DETERMINATION
 PRELIMINARY JURISDICTIONAL DETERMINATION

A
 B
 C
 D
 E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

Sheila M. Newman, Project Manager
 US Army Corps of Engineers
 Alaska District CEPOA-CO-R-NF
 3437 Airport Way, Suite 206
 Fairbanks, Alaska 99709-4777
 (907) 474-2166
 (907) 474 2164 Facsimile Machine

If you only have questions regarding the appeal process you may also contact:

Commander
 ATTN: ET-C/Michael Lee
 USAED, Pacific Ocean
 Building 230
 Fort Shafter, HI 96858-5440

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date:

Telephone number:

Mail to:

Commander
 ATTN: ET-C/Michael Lee
 USAED, Pacific Ocean
 Building 230
 Fort Shafter, HI 96858-5440

W911KB-04-B-0002, Amendment # R0006

STATE OF ALASKA

FRANK H. MURKOWSKI, GOVERNOR

**DEPT. OF ENVIRONMENTAL CONSERVATION
DIVISION OF WATER
NON-POINT SOURCE WATER POLLUTION CONTROL**

555 Cordova Street
Anchorage, AK 99501-2617
Phone: (907) 269-7564
Fax: (907) 269-7508
TTY: (907) 269-7511

January 29, 2004

Certified Mail 7099 3400 0016 8435 0887

Deb Lipyanic
US Army, Public Works
Building 3023
Fort Wainwright, Alaska 99703

Subject: Tanana River 222
Reference No. 4-2002-1098

RECEIVED

FEB 02 2004

LENPA-CO-R-N-FFU
Alaska District Corps of Engineers

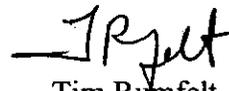
Dear Ms. Lipyanic:

In accordance with Section 401 of the Federal Clean Water Act of 1977 and provisions of the Alaska Water Quality Standards, the Department of Environmental Conservation is issuing the enclosed Certificate of Reasonable Assurance for the proposed filling of 27 acres of wetlands, at Fort Wainwright, Alaska.

Department of Environmental Conservation regulations provide that any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Director, Division of Water, 410 Willoughby Ave., Juneau 99801, within 15 days of the permit decision. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99801, within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

By copy of this letter we are advising the Corps of Engineers our actions and enclosing a copy of the certification for their use.

Sincerely,



Tim Rumpfelt
Environmental Specialist

Enclosure

CC: (with encl.)

Sheila Newman, Corps of Engineers Fairbanks
EPA, AK Operations

00800-30

**STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CERTIFICATE OF REASONABLE ASSURANCE**

A Certificate of Reasonable Assurance, in accordance with Section 401 of the federal Clean Water Act and the Alaska Water Quality Standards, is issued to the US Army, Public Works, Michael Meeks, Directorate, Building 3105, Fort Wainwright, Alaska 99703, for the proposed placement of fill into 27 acres of wetlands in the construction of the Modified Military Operation in Urban Terrain Facility. Said fill will be for roadways, driveways and building pads.

The proposed activity is located within section 20 and 29, T1S, R1E, Fairbanks Meridian, small arms range complex, Fort Wainwright, Alaska.

Public notice of the application for this certification was given as required by 18 AAC 15.180.

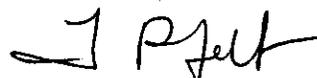
Water Quality Certification is required under Section 401 because the proposed activity will be authorized by a Corps of Engineers permit identified as Tanana River 222, reference number 4-2002-1098, and a discharge may result from the proposed activity.

Having reviewed the application and comments received in response to the public notice, the Alaska Department of Environmental Conservation certifies that there is reasonable assurance that the proposed activity, as well as any discharge which may result, will comply with applicable provisions of Section 401 of the Clean Water Act and the Alaska Water Quality Standards, 18 AAC 70, provided that the following alternative measures are adhered to.

1. Prior to fill placement, a silt fence or similar structure shall be installed on a line parallel to and within 5' of the proposed fill toe of slope within all wetland areas that contain standing water that is connected to any natural body of water or where the fill toe is within 25' of such a water body. This structure shall remain in place until the fill has been stabilized or contained in another manner. Silt fences will not have to be installed if the construction activity is occurring during the time that the water is in a frozen state.

Date

1/29/04



Tim Rumfelt
Environmental Specialist

MODIFIED MOUT AND RANGE UPGRADE FACILITY
FORT WAINWRIGHT, ALASKA

VICINITY MAP



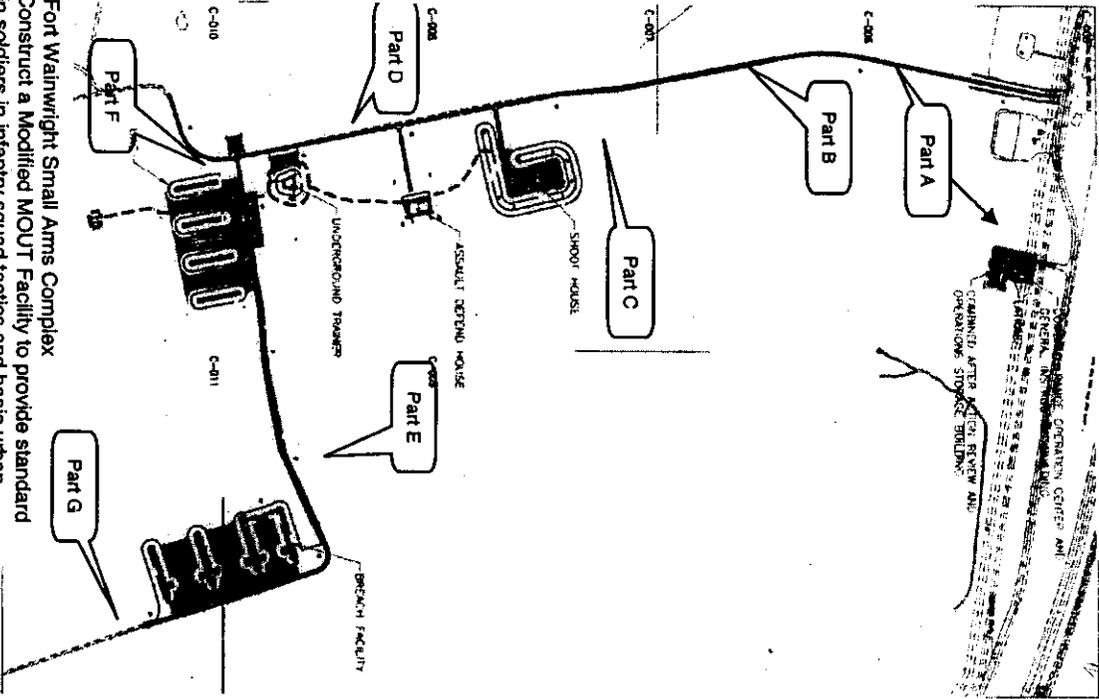
LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
Fairbanks North Star Borough
Section 20 & 29 T1S, R1E, Fairbanks Meridian

LOCATION MAP

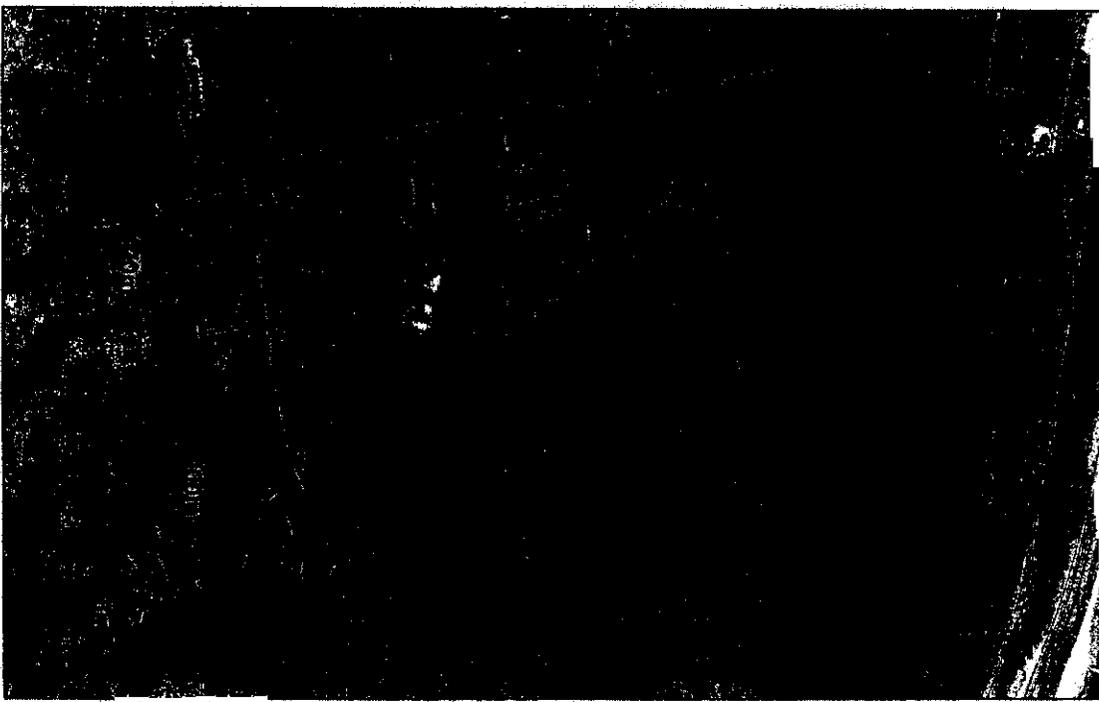


4-2003-1078 Tanana River 203
Page 1 of 32
12/15/2003

Modified MOUT Facility - Site Plan



LOCATION: Fort Malmwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

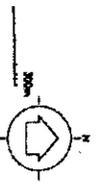


4-2002-1098 TANANA RIVER 222

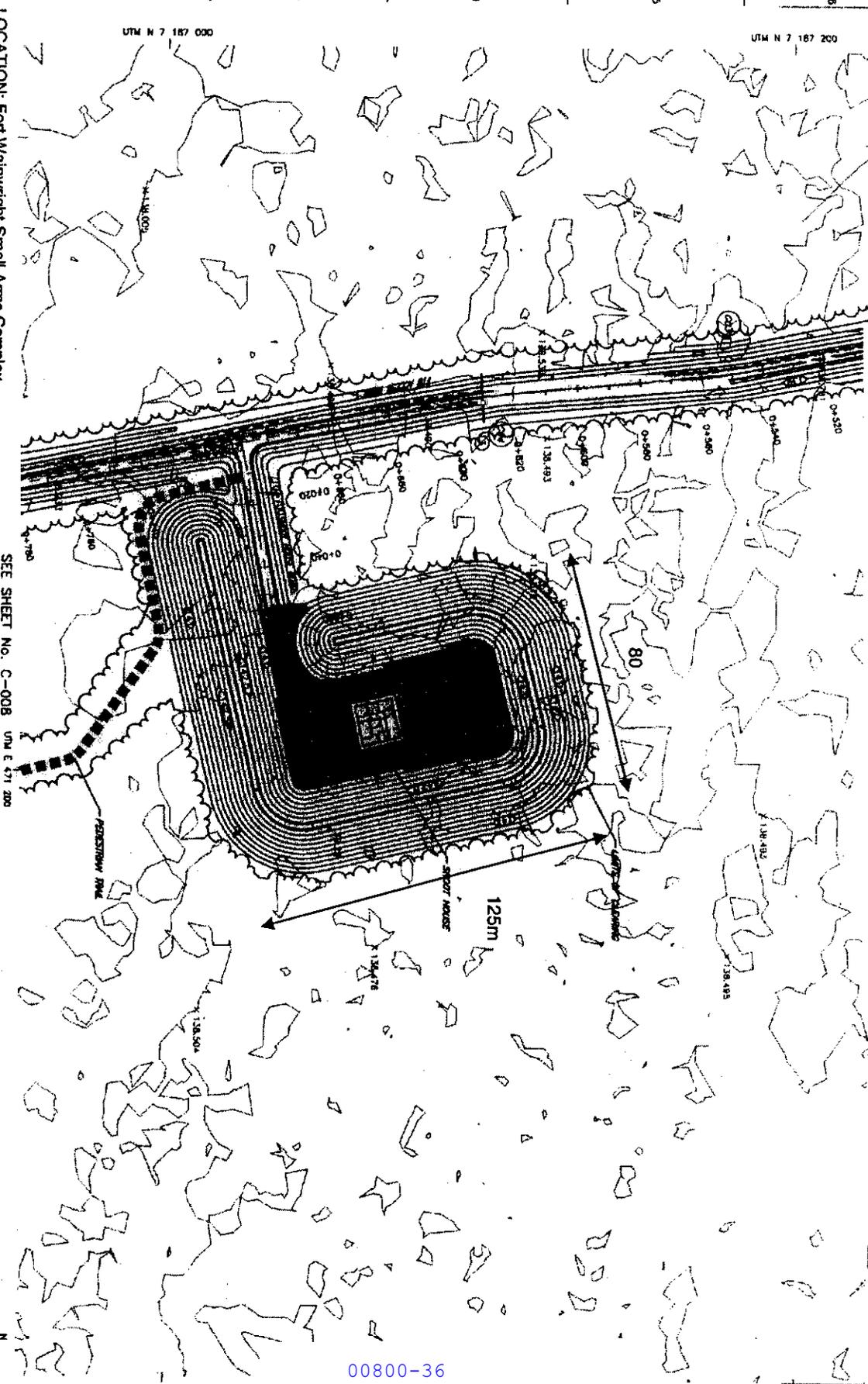
Page 2 of 32

12/15/2003

GRAPHIC SCALE 1:3000
SCALE 1:3000

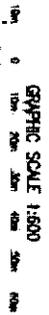


Modified MOUT Facility - General Site Plan (part C)



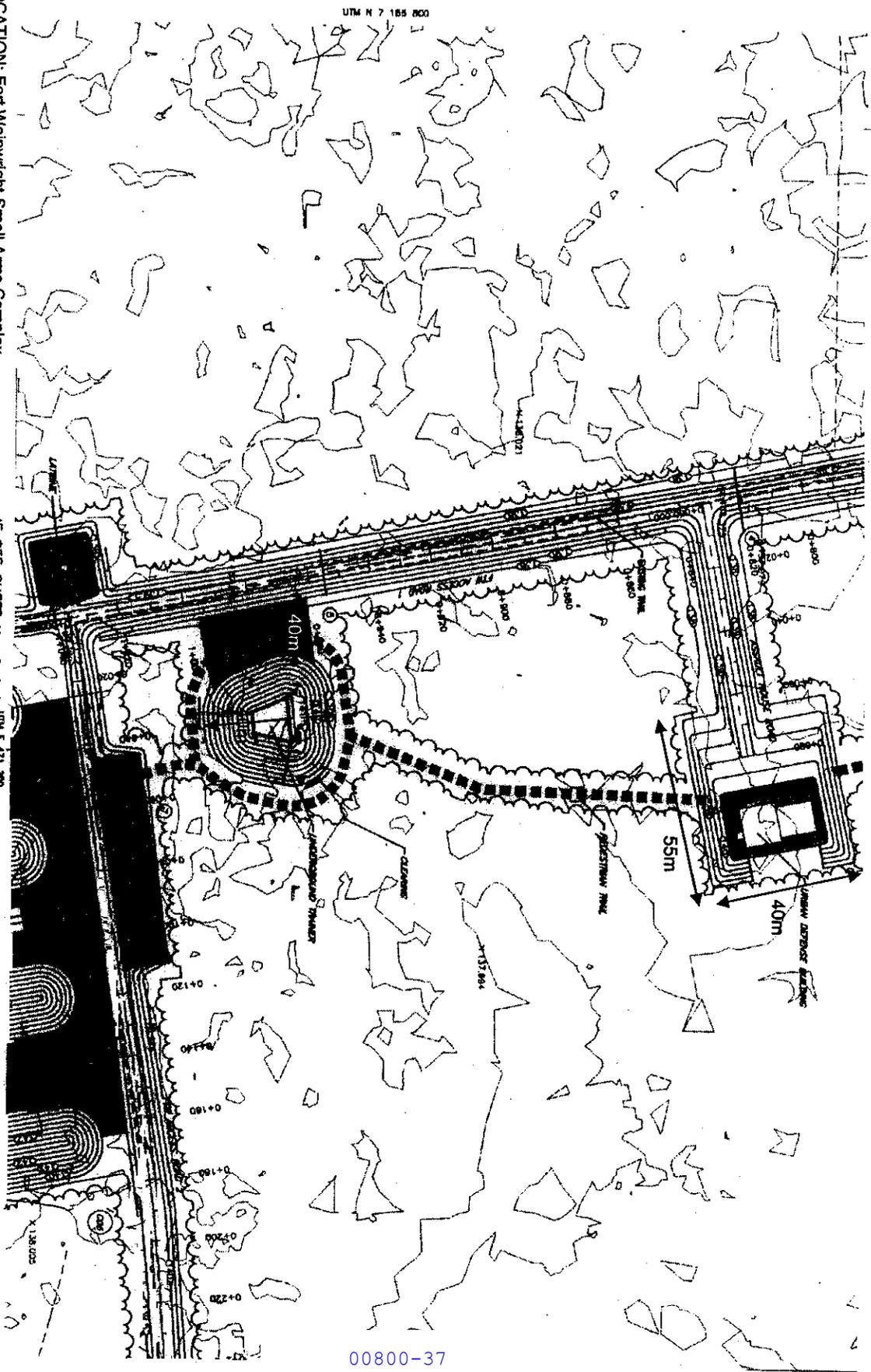
LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

SEE SHEET NO. C-008 UTM E 471 200



4-2002-1098 Tanana River 222 12/15/2003

Modified MOUT Facility - General Site Plan (part D)

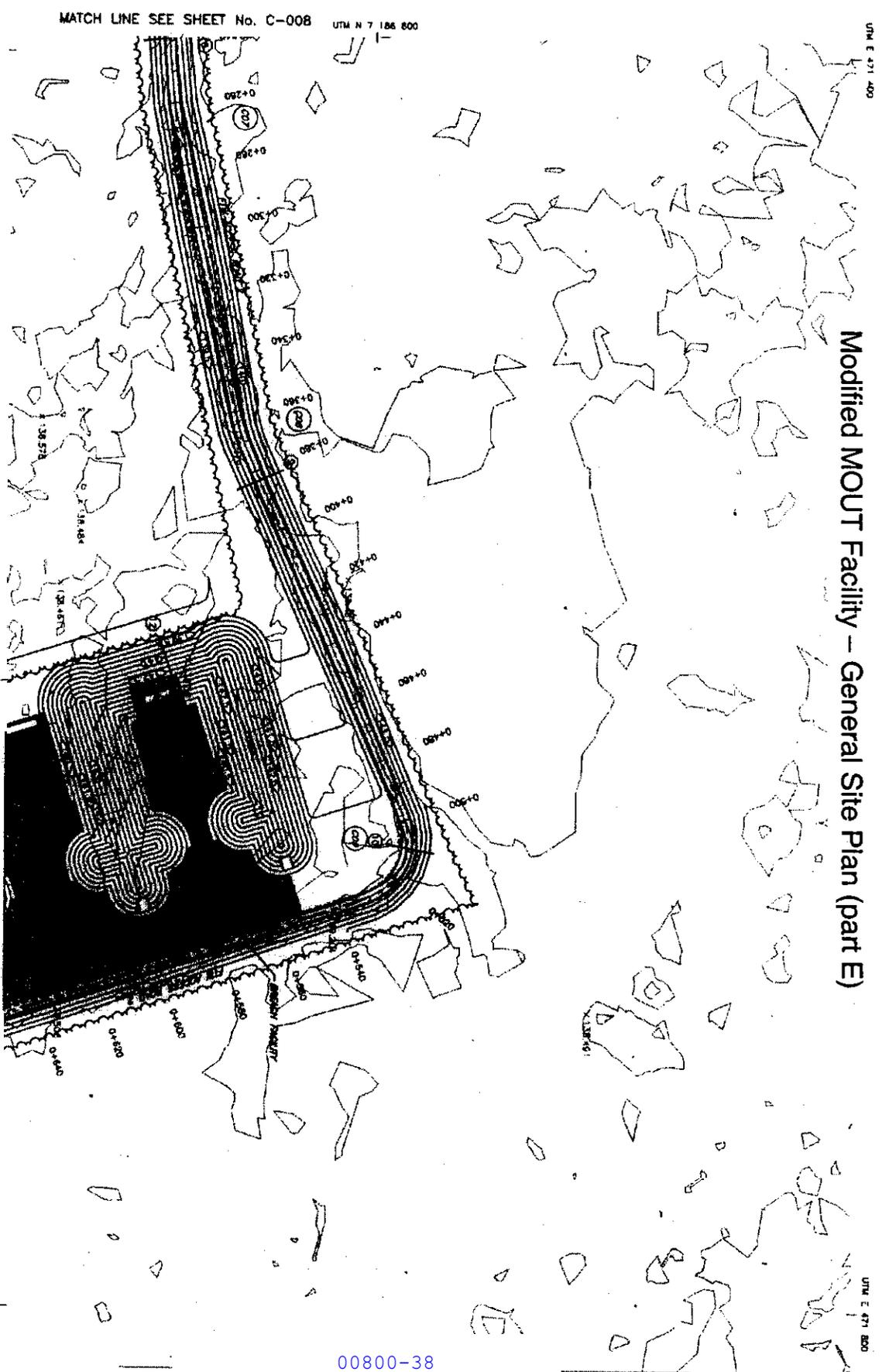


LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

4-2002-1096 Tanana Area 222 (2/15/2003)



Modified MOUT Facility - General Site Plan (part E)



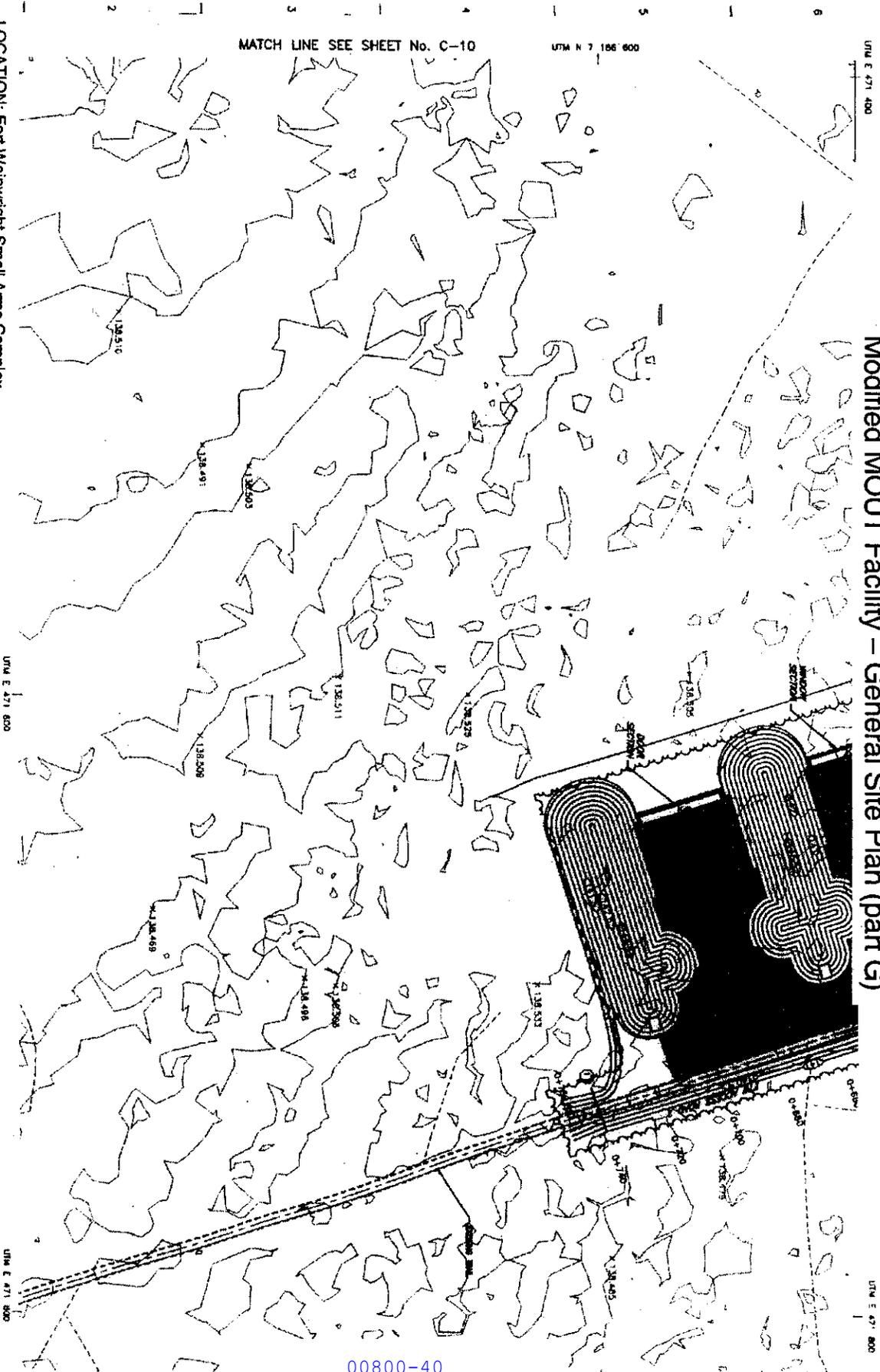
LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

4-2002-1598 *Tanana River 222* *12/15/2003*

GRAPHIC SCALE 1:800



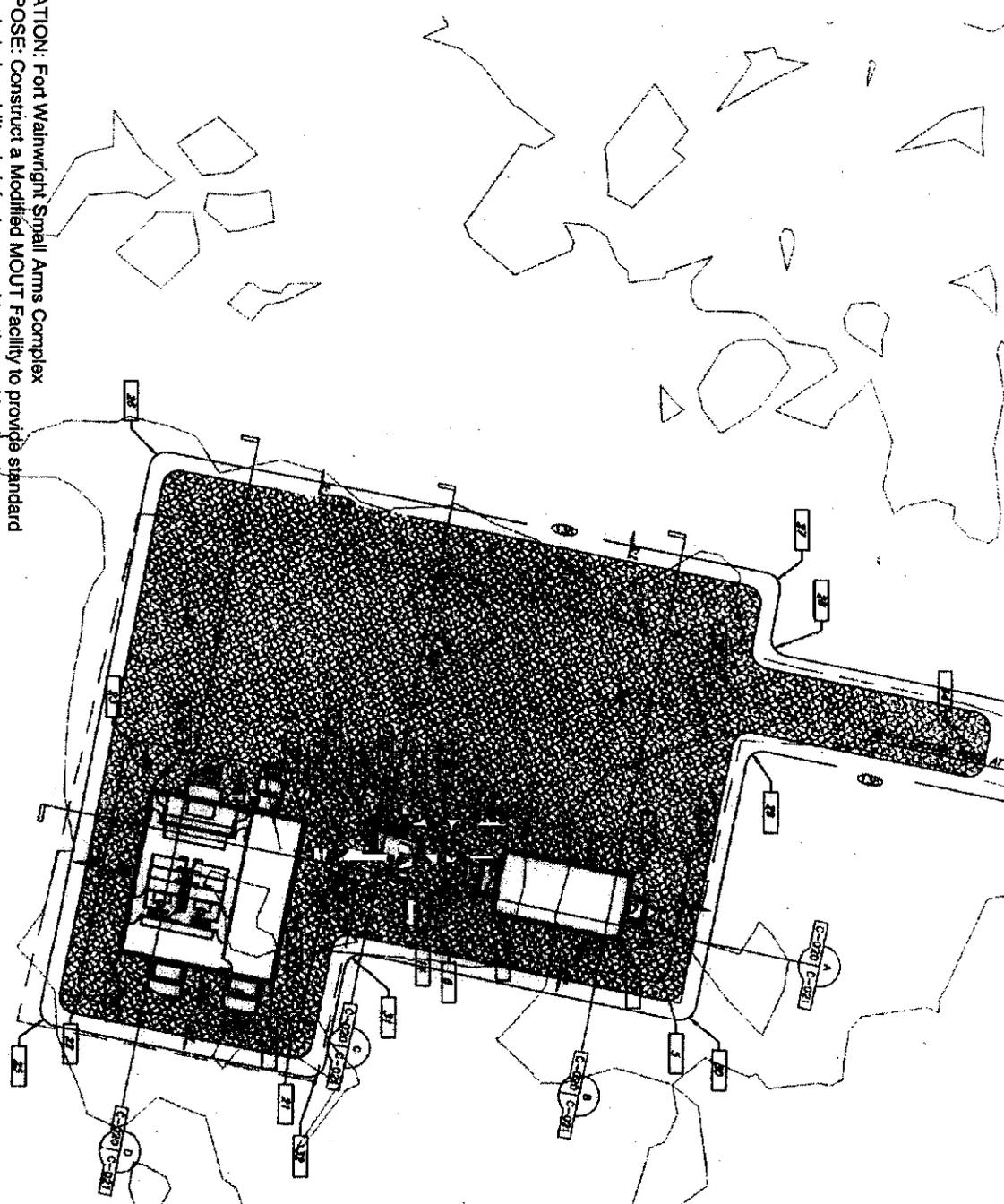
Modified MOUT Facility – General Site Plan (part G)



LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

4-2002-1098 Tanana River 222 12/15/2003

Modified MOUT Facility – Building site



LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

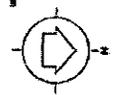
**COMBINED ROO AND GENERAL INSTRUCTION BUILDING
 LATRINE, AND COMBINED AAR AND
 OPERATIONS STORAGE BUILDING**

SCALE: 1:200

Page 10 of 32

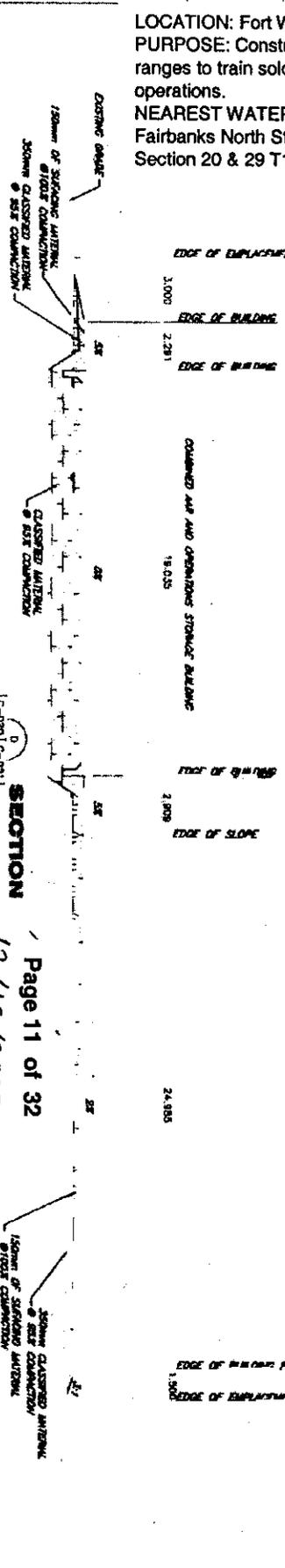
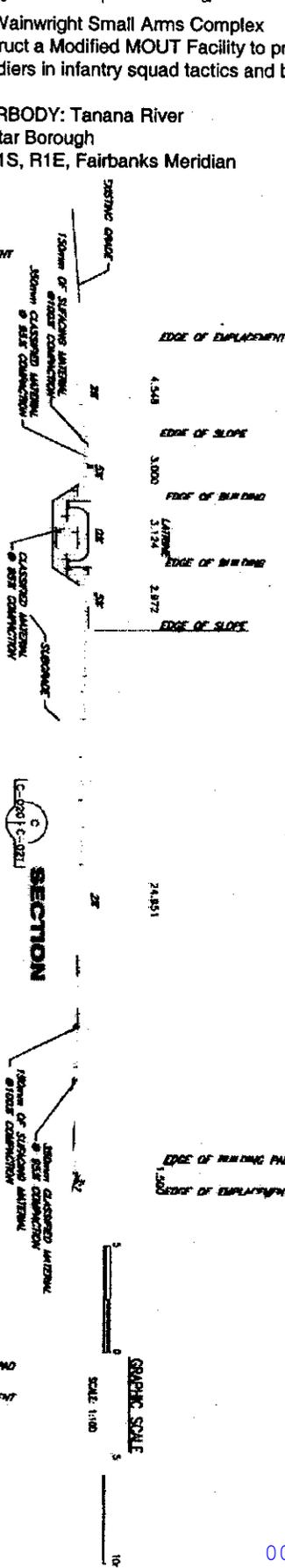
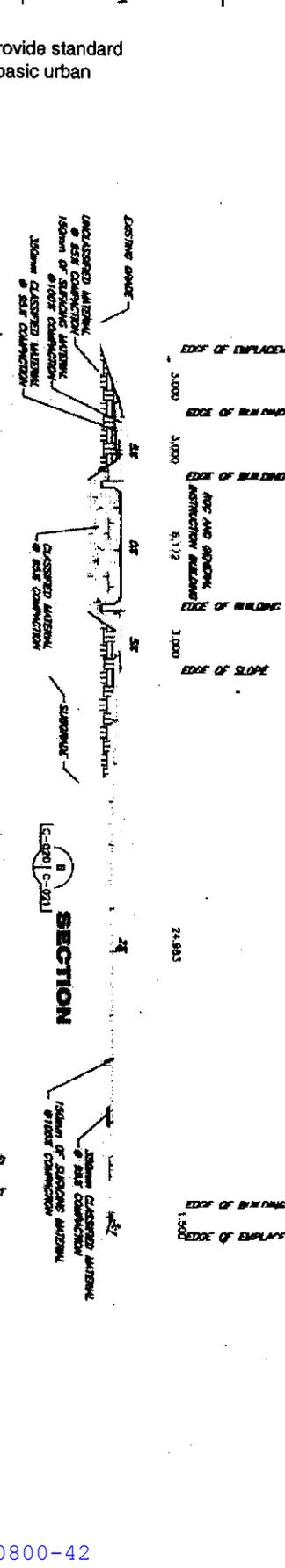
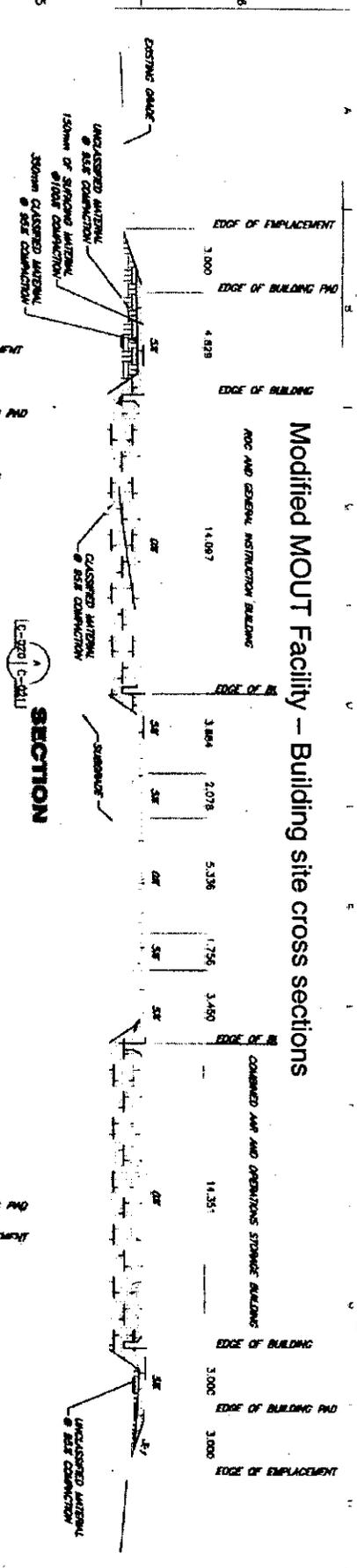
4-8002-1098 Tanana River 102 12/15/2003

GRAPHIC SCALE
 SCALE: 1:200



LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

Modified MOUT Facility - Building site cross sections



4-2003-1098 Tanana River R22

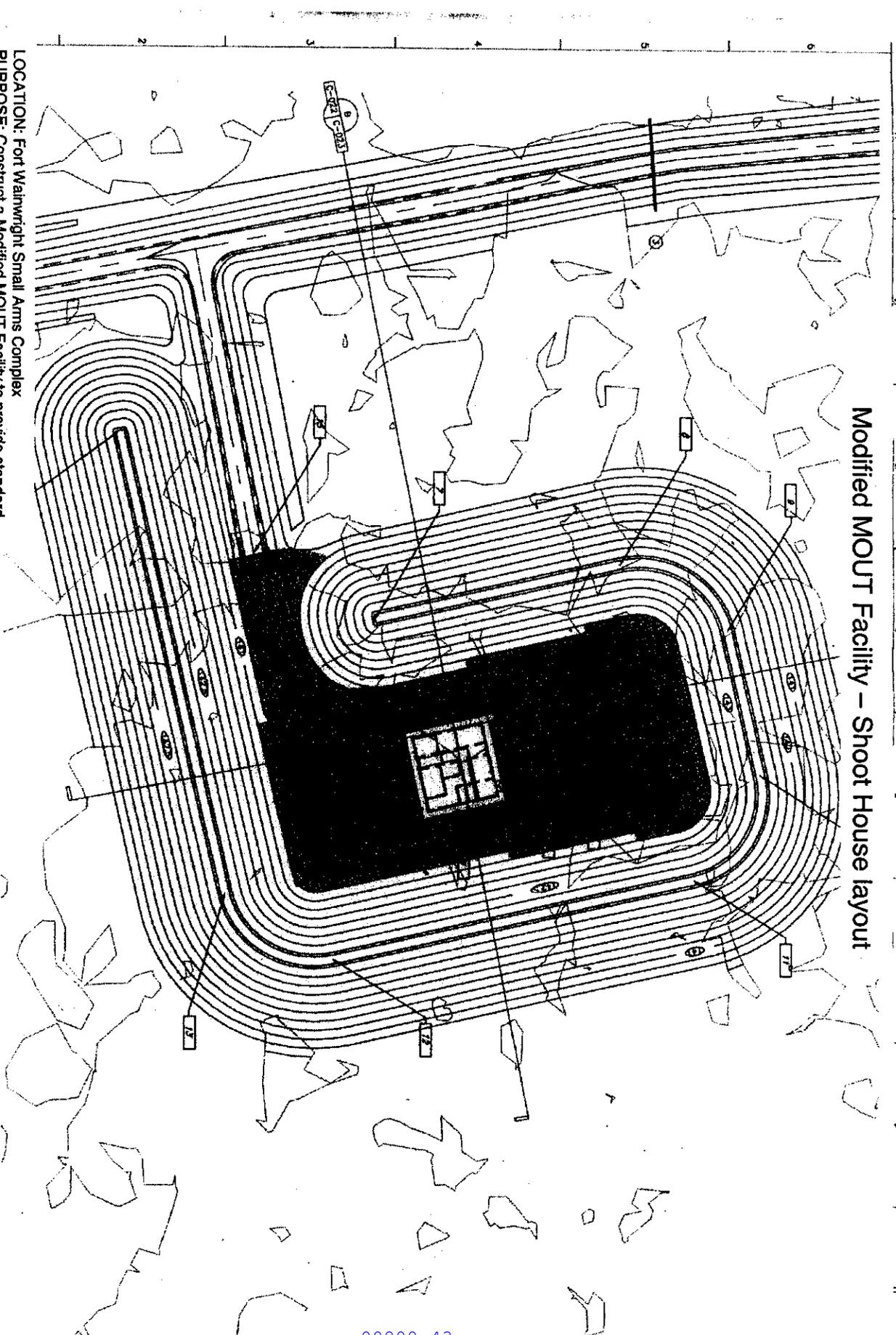
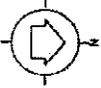
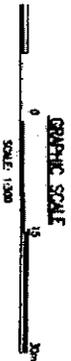
Modified MOUT Facility – Shoot House layout

LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.

NEAREST WATERBODY: Tanana River
Fairbanks North Star Borough
Section 20 & 29 T1S, R1E, Fairbanks Meridian

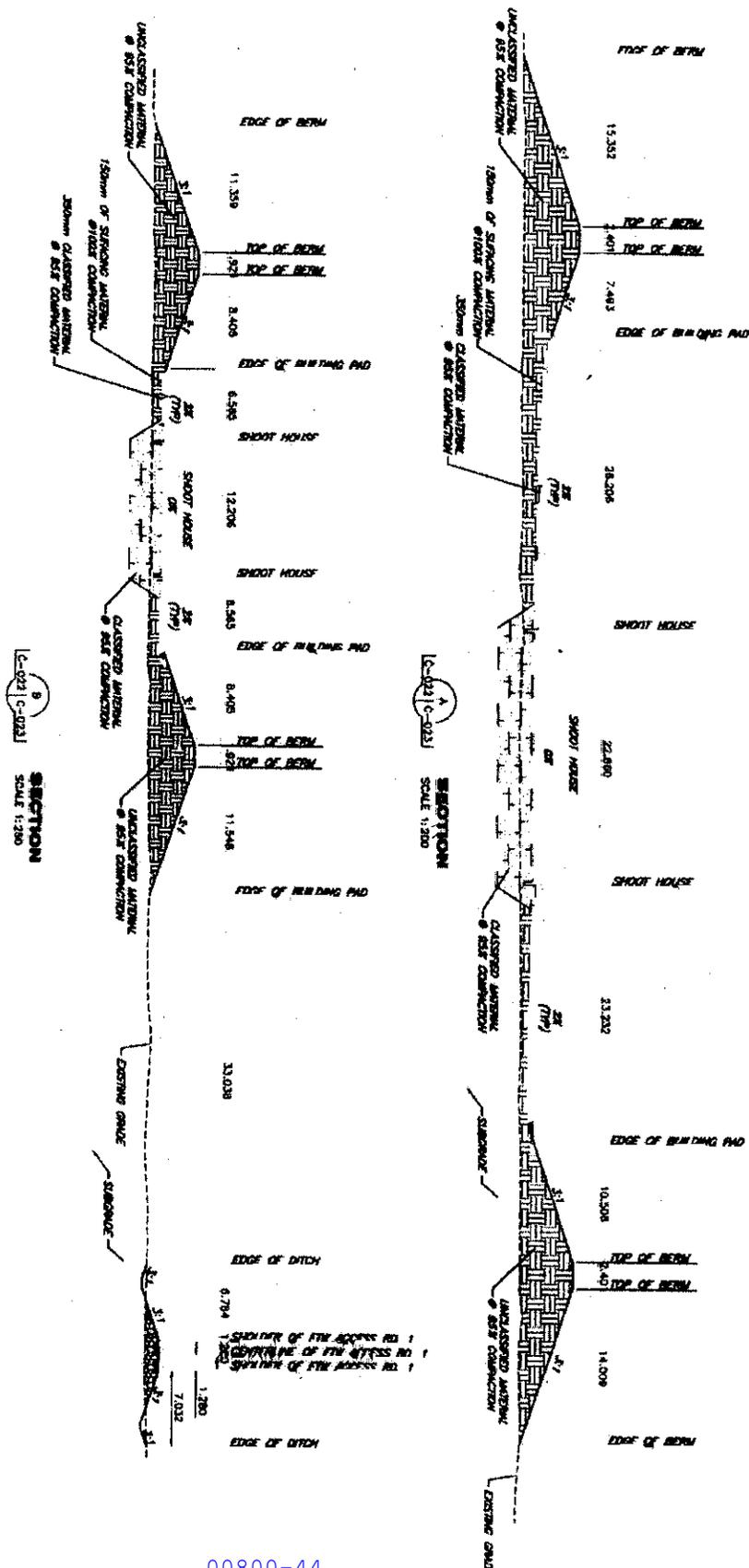
SHOOT HOUSE
SCALE: 1:500

Page 12 of 32



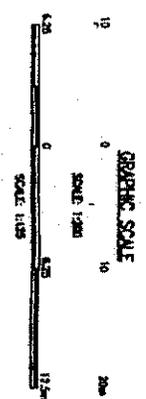
4-2002-1098 Tanana River 222
12/15/2003

Modified MOUT Facility – Shoot House – Fill Cross Sections



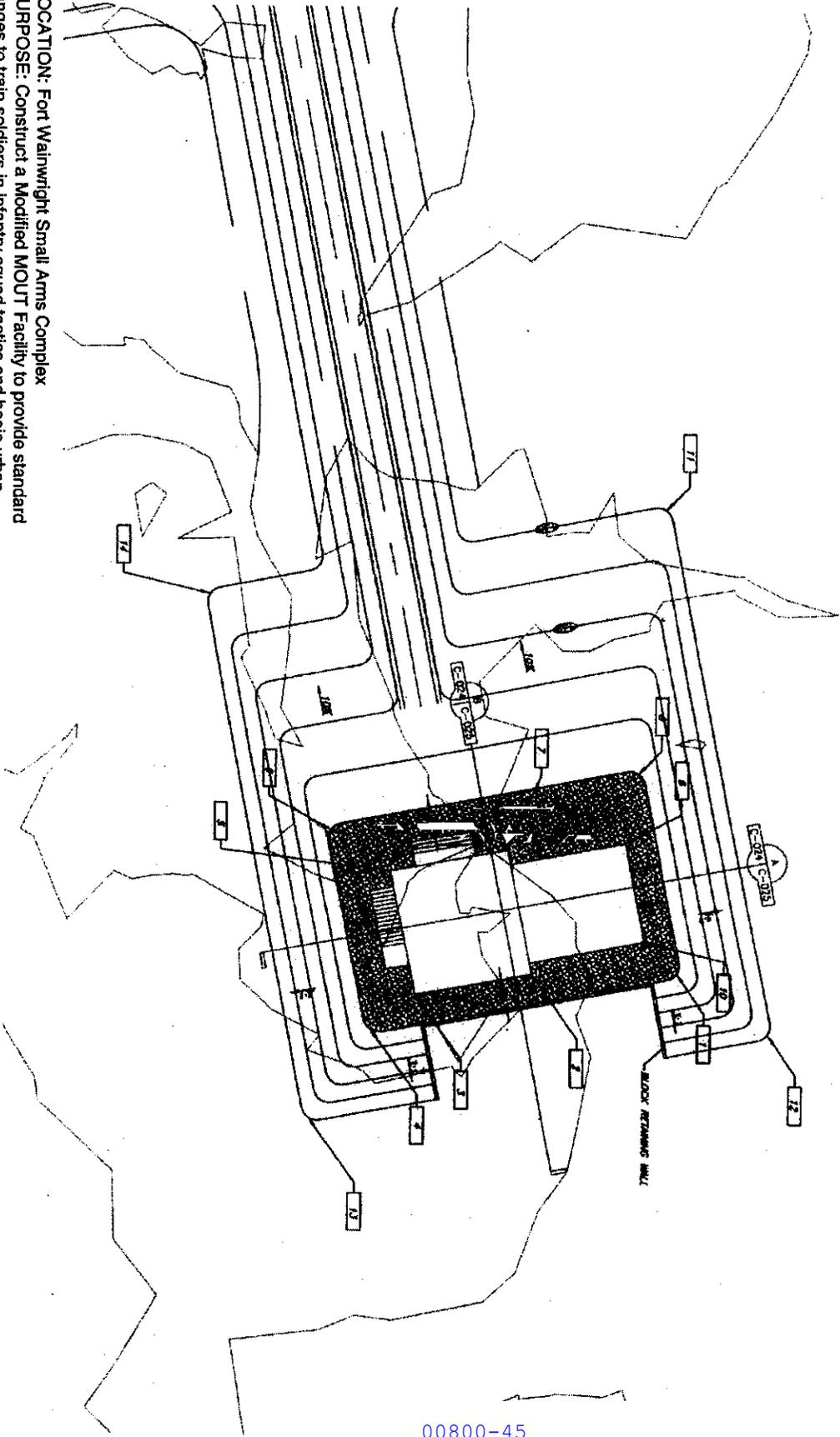
LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

4-2002-1098
 Tanana River 202
 12/15/2003



Modified MOUT Facility – Urban Defense Site Plan

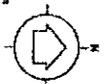
LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian



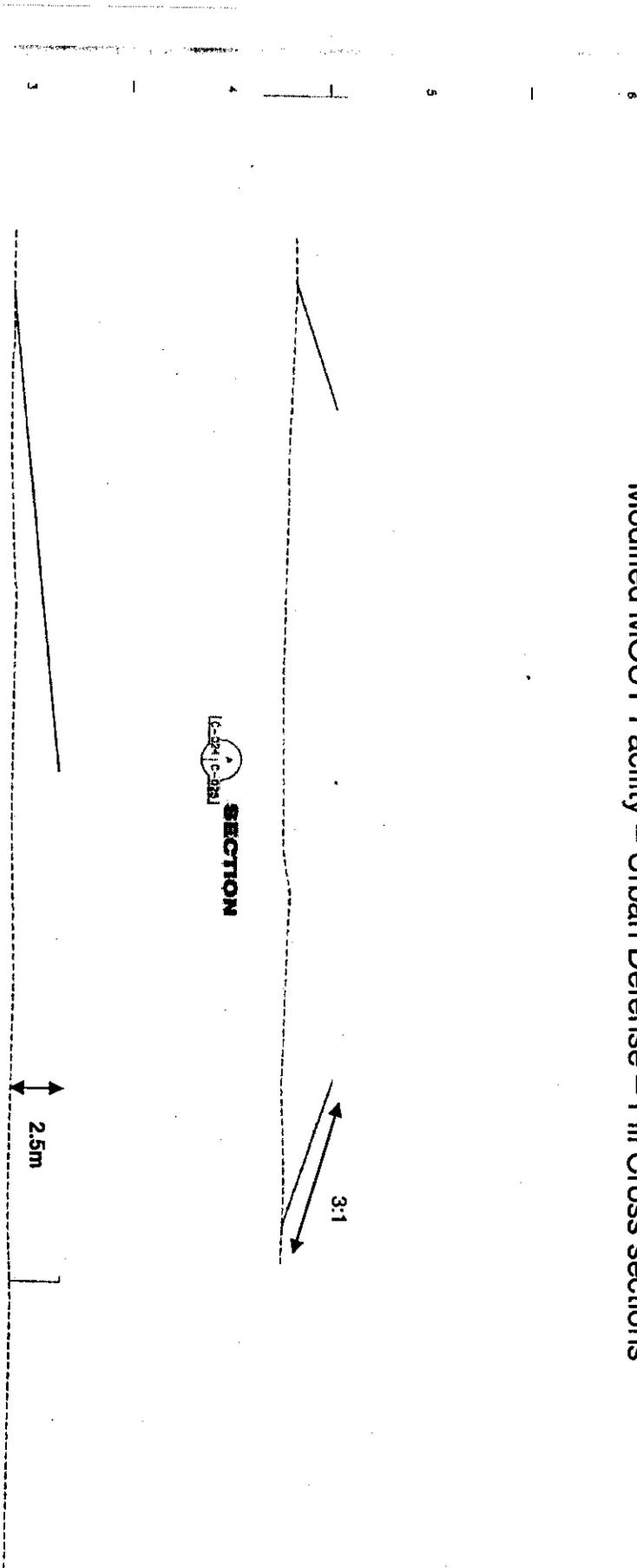
00800-45

4-2002-1098 Tanana River 222
 Page 14 of 32
 12/15/2003

GENERIC SCALE
 SCALE: 1:200



Modified MOUT Facility – Urban Defense – Fill Cross sections



LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

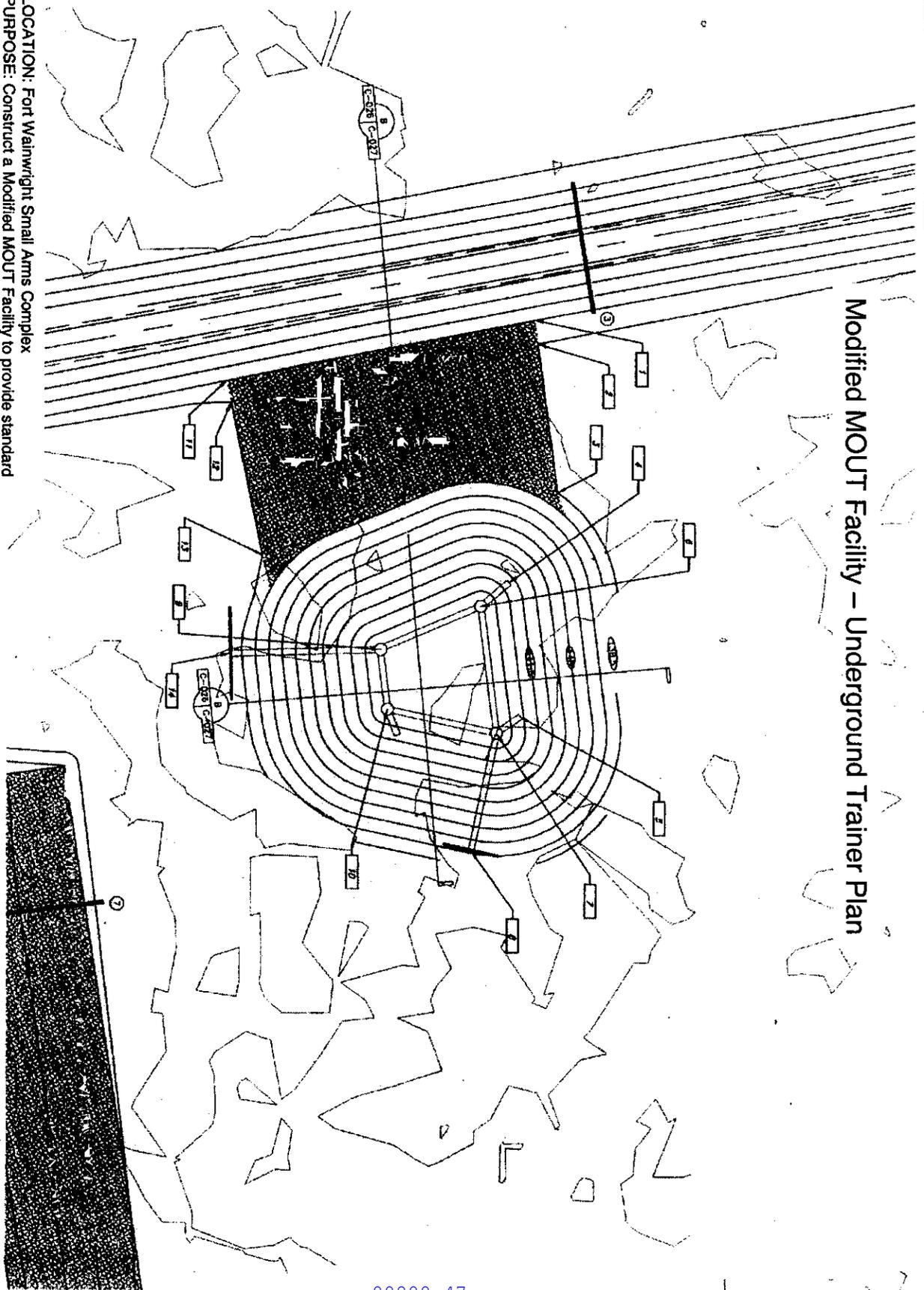
4-2002-1098 Tanana River 222
 Page 15 of 32
 12/15/2003



Modified MOUT Facility - Underground Trainer Plan

LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.

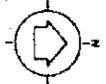
NEAREST WATERBODY: Tanana River
Fairbanks North Star Borough
Section 20 & 29 T1S, R1E, Fairbanks Meridian



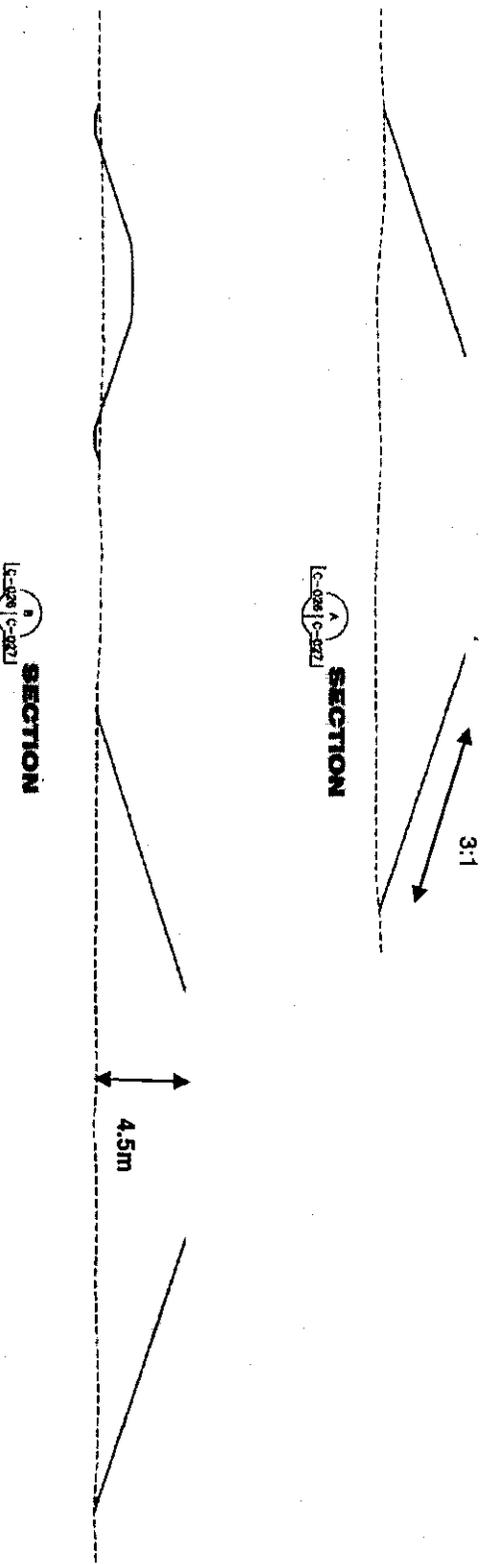
4-2002-109F Tanana River 222

Page 16 of 32
12/15/2003

GRAPHIC SCALE
0 10 20
SCALE 1:200



Modified MOUT Facility -- Underground Trainer -- Cross section



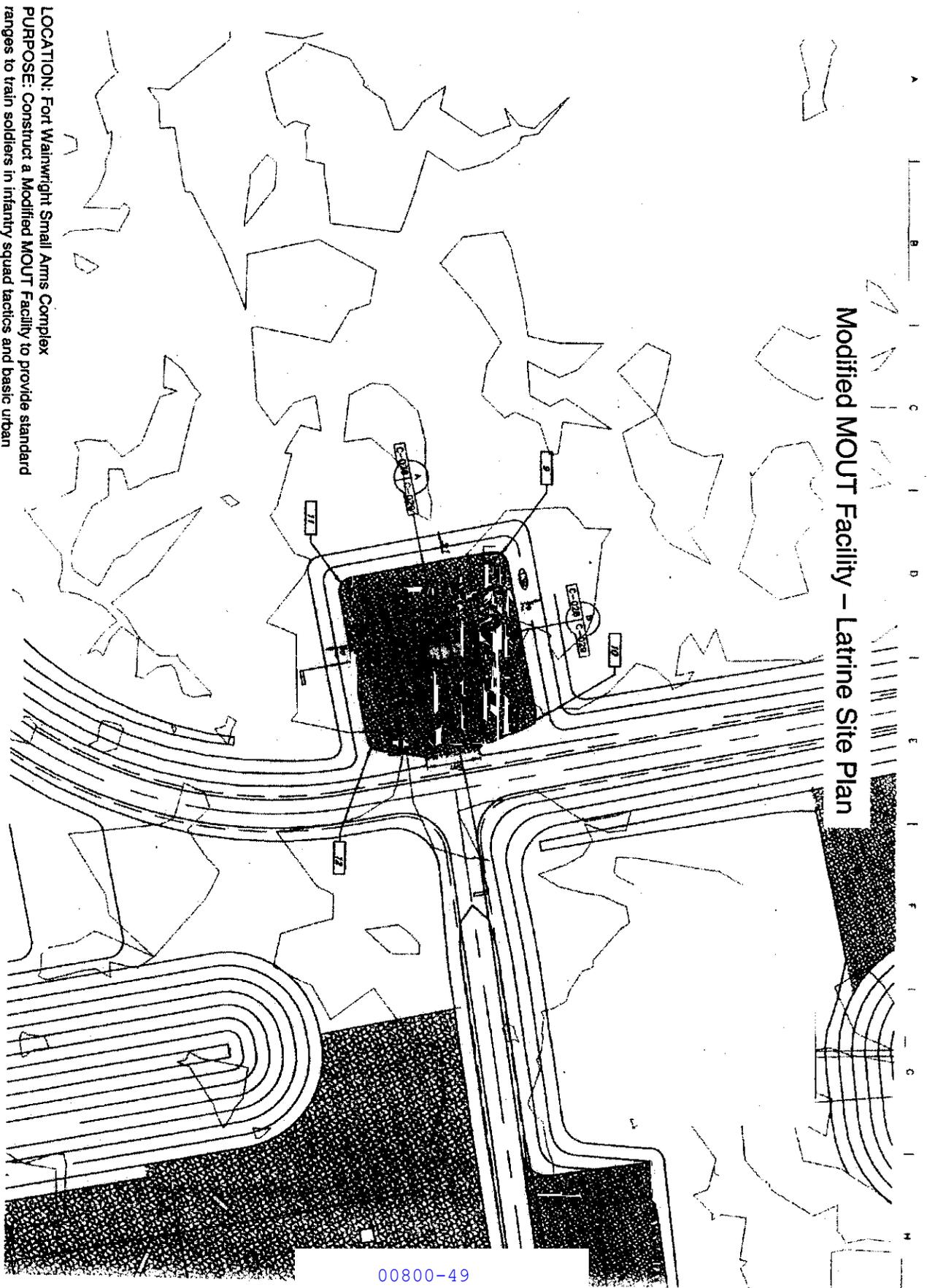
LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

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 Tanana River
 12/15/2003

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GRAPHIC SCALE
 SCALE: 1:125

Modified MOUT Facility - Latrine Site Plan



LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

SCALE: 1:200

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4-2002-109F

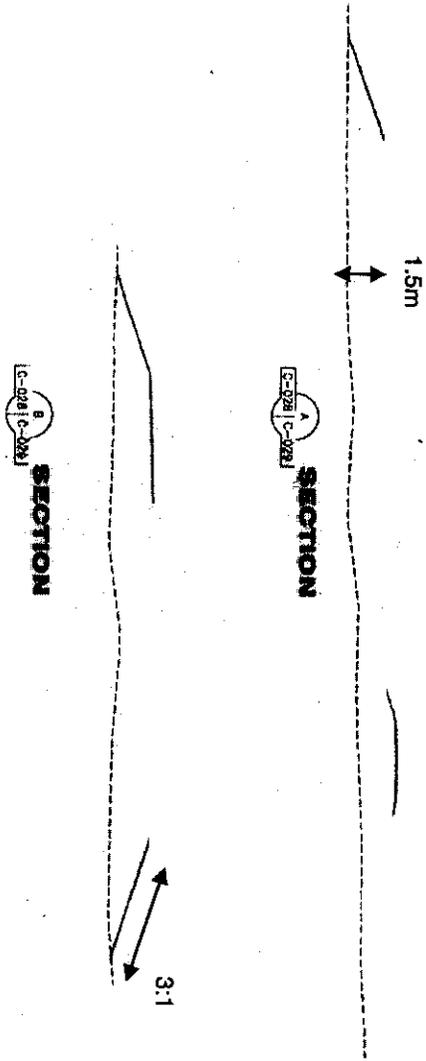
Tanana River 222

12/15/2003

GRAPHIC SCALE
SCALE: 1:500

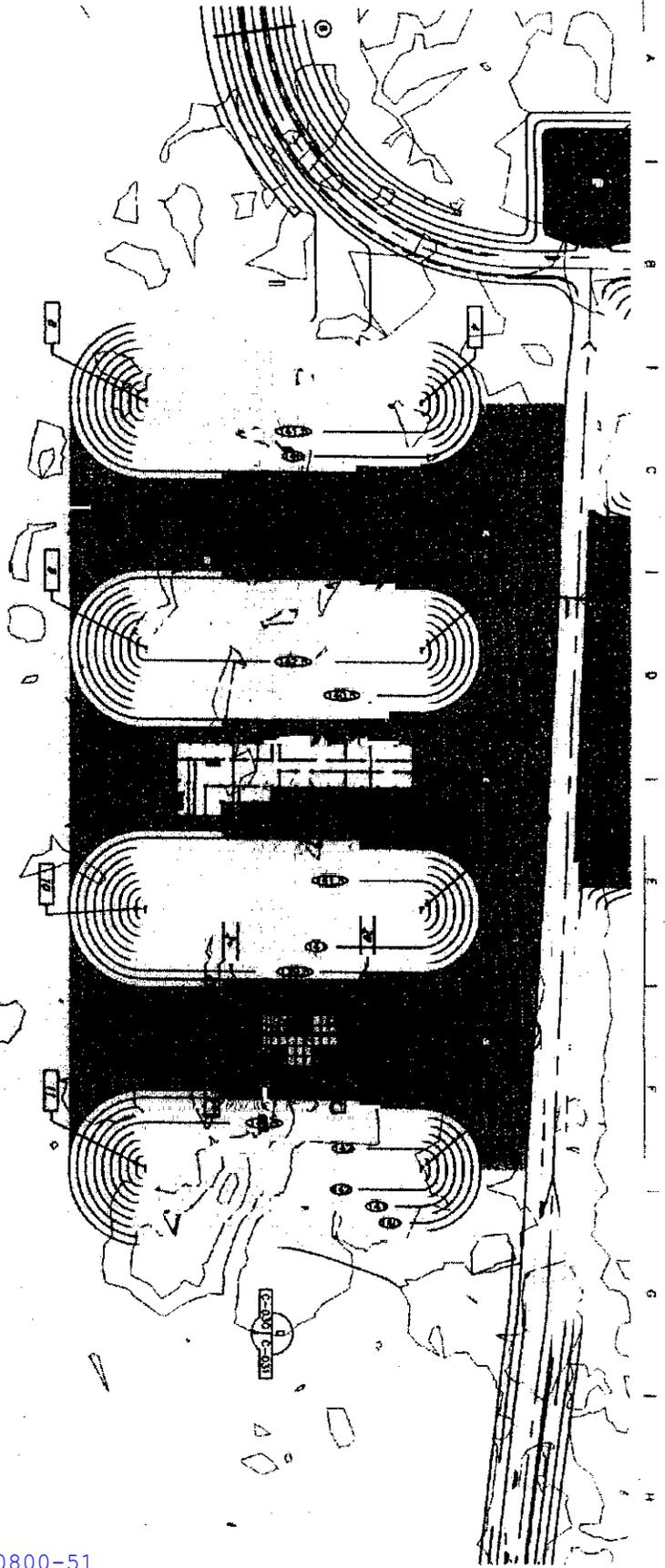


Modified MOUT Facility – Latrine Cross Section



LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

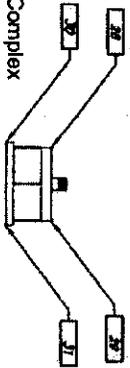
4-2002-1098 Tanana River 200 12/15/2003



Modified MOUT Facility – Urban Assault Course Site Plan

LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.

NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian



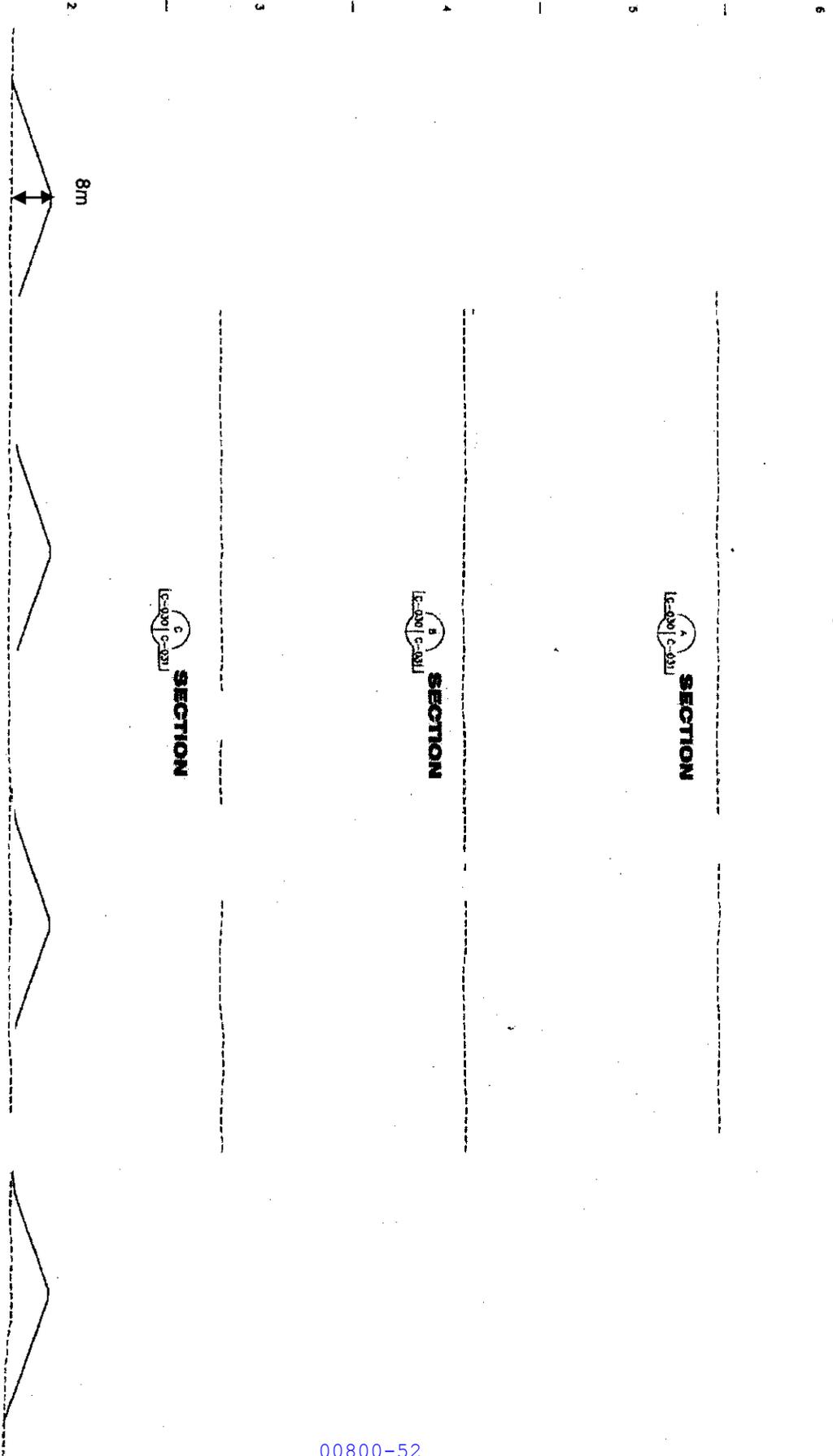
Page 20 of 32

Tanana River 212
12/15/2003

GRAPHIC SCALE
SCALE 1:400



Modified MOUT Facility – Urban Assault Cross Sections



LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

SECTION D

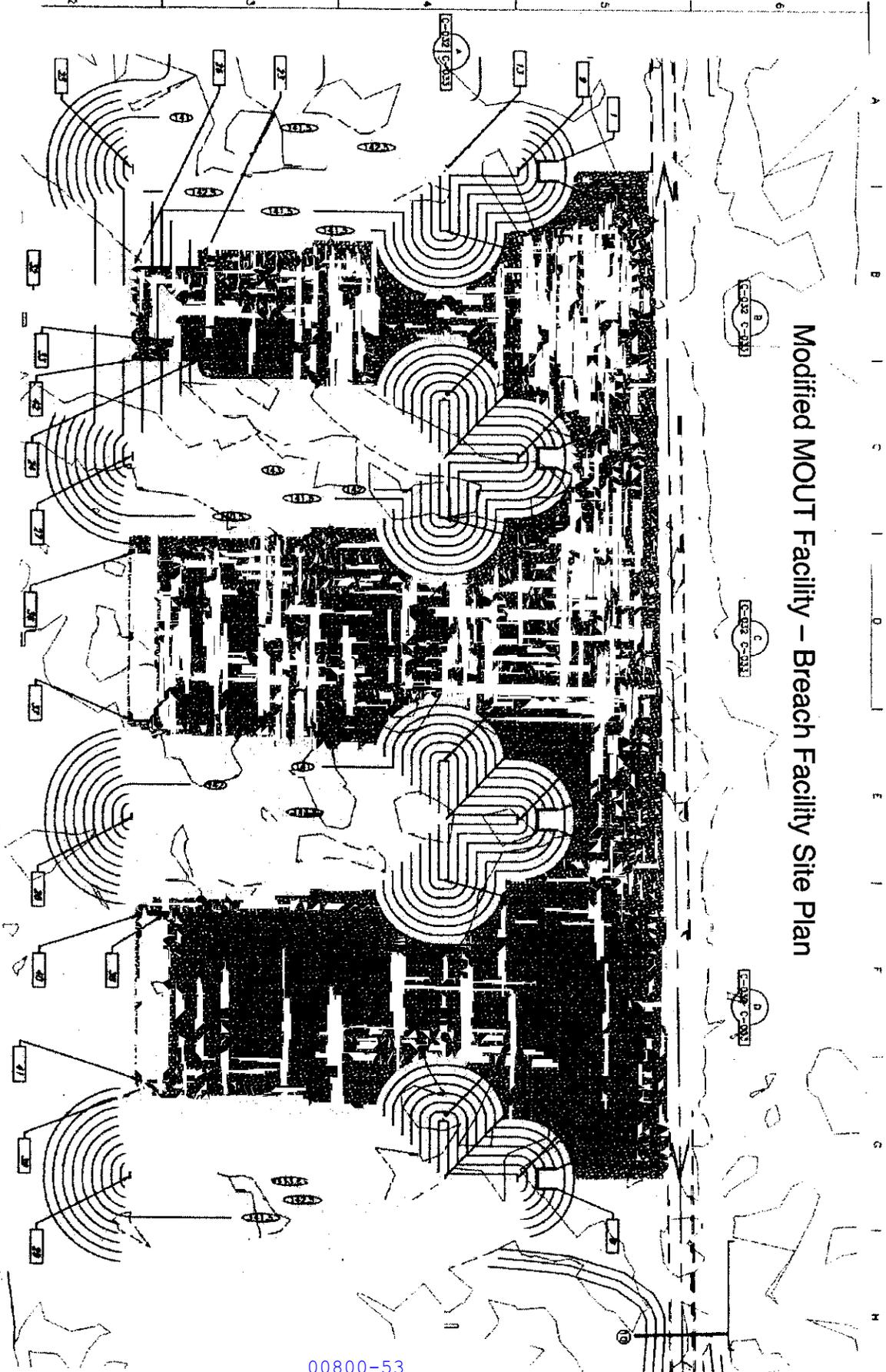
SECTION C

SECTION B

SECTION A

4-2002-1098 Tanana River 2002 12/15/2003

Modified MOUT Facility - Breach Facility Site Plan



LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

00800-53

4-2002-1098

Tanana River 022

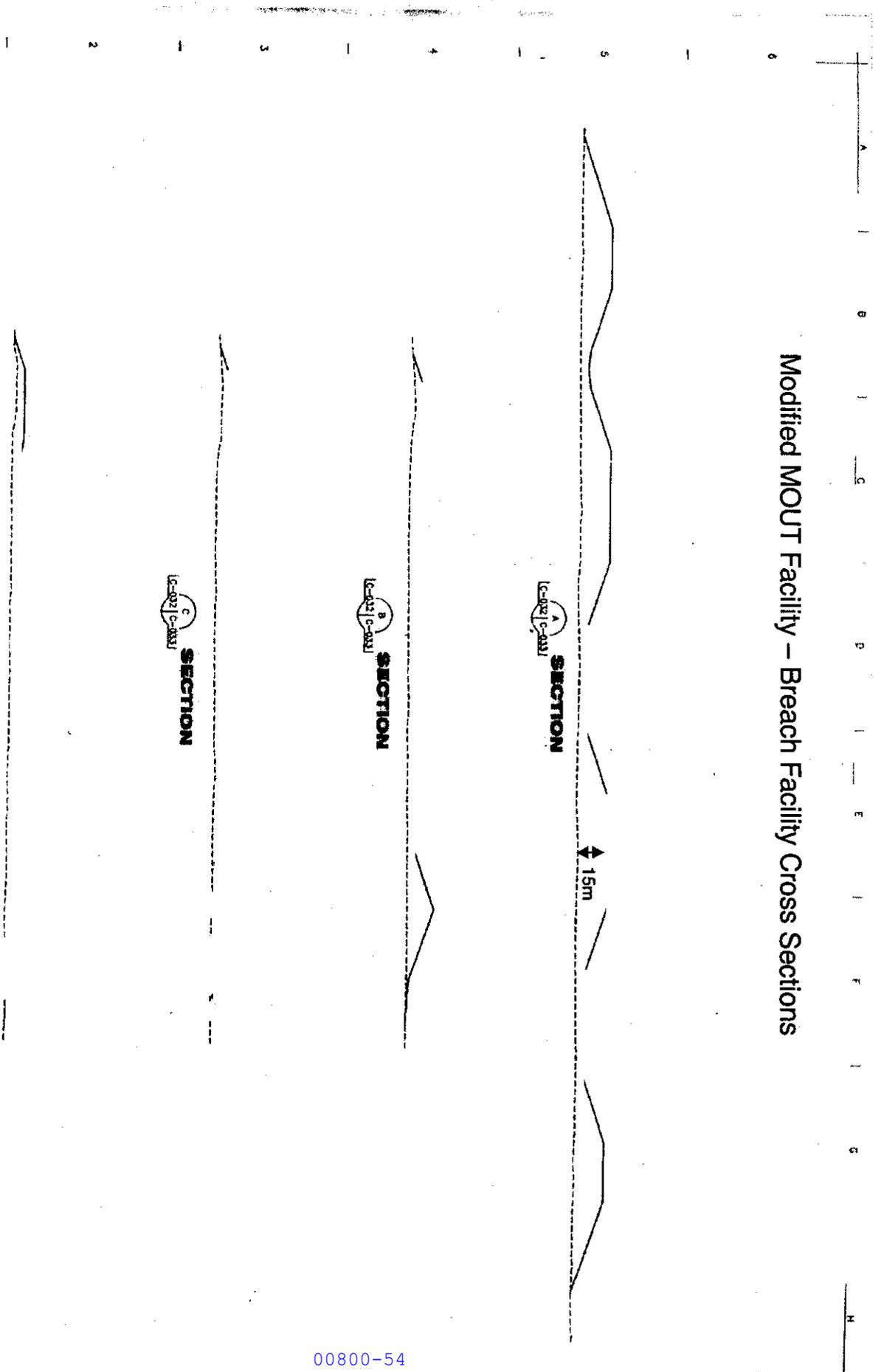
Page 22 of 32

12/15/2003

GRAPHIC SCALE
SCALE 1:300



Modified MOUT Facility – Breach Facility Cross Sections



LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

SECTION

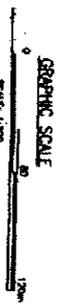
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SECTION

SECTION

15m

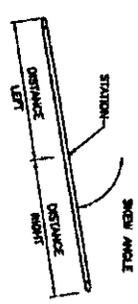
4-2002-1098 Tanana River 222
12/15/2003



QUANTITY	PLAN SHEET	QUANTITY	PROFILE	THREAT/ROAD NAME	STATION	SIZE (mm)	LENGTH (ft)	SLOPE (%)	SHEAR ANGLE	DISTANCE LEFT (ft)	DISTANCE RIGHT (ft)	LEFT ELEVATION	RIGHT ELEVATION	WIDTH	WALL THICKNESS (mm)
1	C-005	C-041	FTW ACCESS ROAD 1	0+000.00	40	14.72	1.00	89°07'44"	7.15	7.57	131.486	132.558	0.98	1.301	
2	C-004	C-041	FTW ACCESS ROAD 1	0+000.10	40	14.72	1.00	89°07'44"	7.16	7.58	131.794	132.799	0.98	1.301	
3	C-007	C-041	FTW ACCESS ROAD 1	0+000.40	40	14.84	1.00	87°33'04"	7.18	7.64	131.794	132.799	0.98	1.301	
4	C-008	C-041	FTW ACCESS ROAD 1	0+000.44	40	15.03	1.00	81°16'04"	7.18	7.29	131.794	132.843	0.98	1.301	
5	C-010	C-041	FTW ACCESS ROAD 1	0+000.44	40	14.17	1.00	87°33'04"	7.12	7.15	131.794	132.843	0.98	1.301	
6	C-008	C-042	FTW ACCESS ROAD 2	0+000.152	40	14.88	1.00	87°44'20"	7.16	7.54	131.837	132.782	0.98	1.301	
7	C-009	C-042	FTW ACCESS ROAD 2	0+000.27	40	14.72	1.00	86°02'04"	7.18	7.53	131.794	131.420	0.98	1.301	
8	C-009	C-042	FTW ACCESS ROAD 2	0+000.138	40	14.75	1.00	86°02'04"	7.18	7.50	131.794	131.840	0.98	1.301	
9	C-009	C-042	FTW ACCESS ROAD 2	0+000.265	40	13.50	1.00	89°07'44"	6.41	6.79	131.486	131.271	0.98	1.301	
10	C-011	C-042	FTW ACCESS ROAD 2	0+000.265	40	14.72	1.00	89°07'44"	7.13	7.29	131.486	131.420	0.98	1.301	

FTW CULVERT SCHEDULE

TERMINUS AND SECONDARY
THREAT SERVICE ROAD



UP STATION



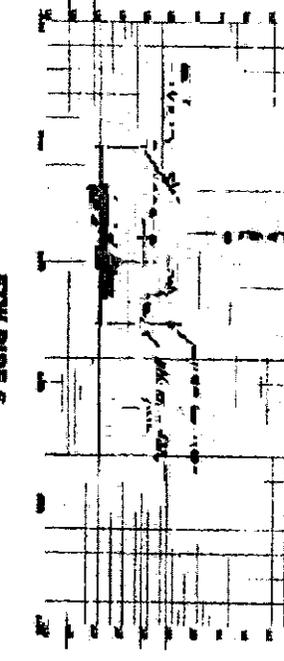
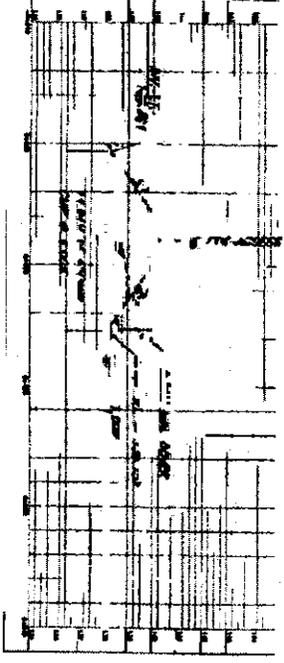
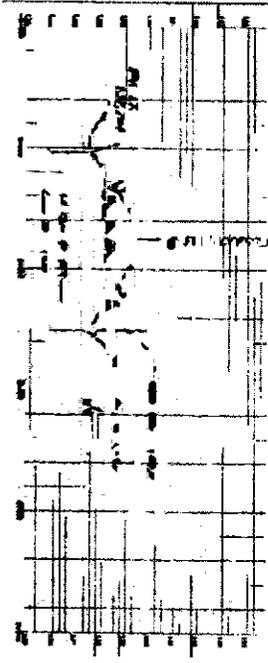
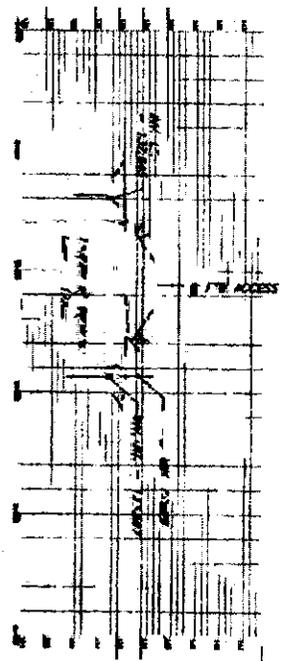
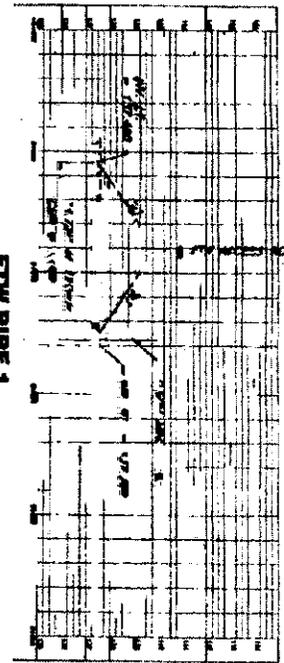
TYPICAL STRAIGHT PIPE

TYPICAL CULVERT PLAN AND PROFILE
NOT TO SCALE

LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

4-2002-1098 Tanana River 2002
 12/15/2003

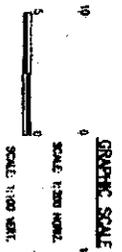
Modified MOUT Facility - Culvert Cross Sections (1-6)



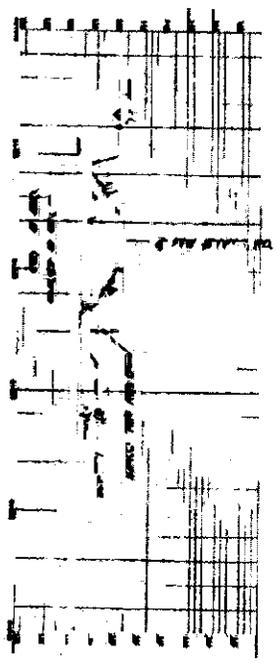
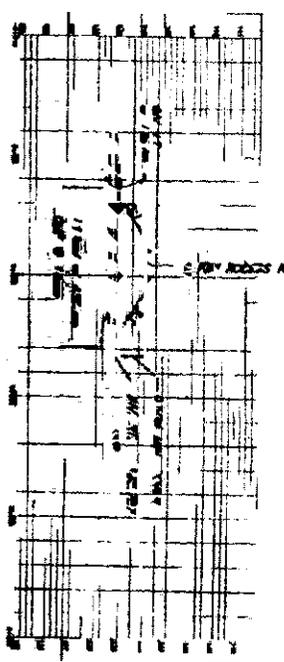
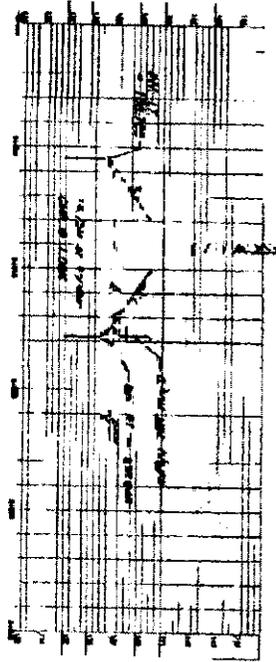
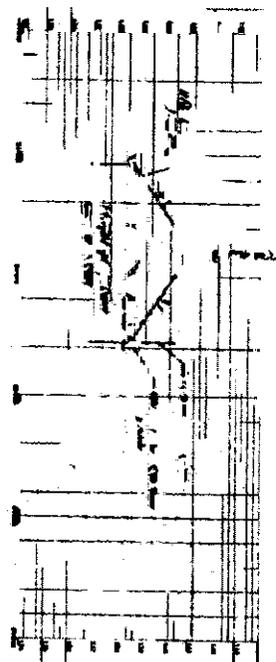
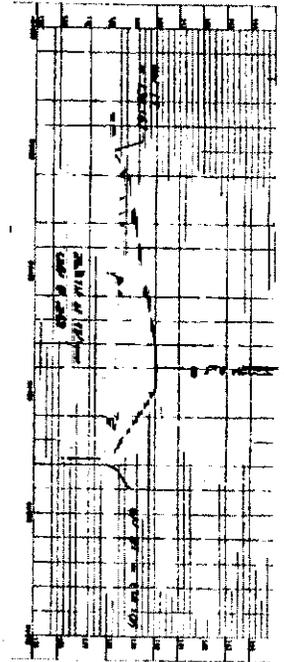
LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

4-2002-1098

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Tanana River 222
12/15/2003



Modified MOUT Facility - Culvert Cross Sections (7-11)

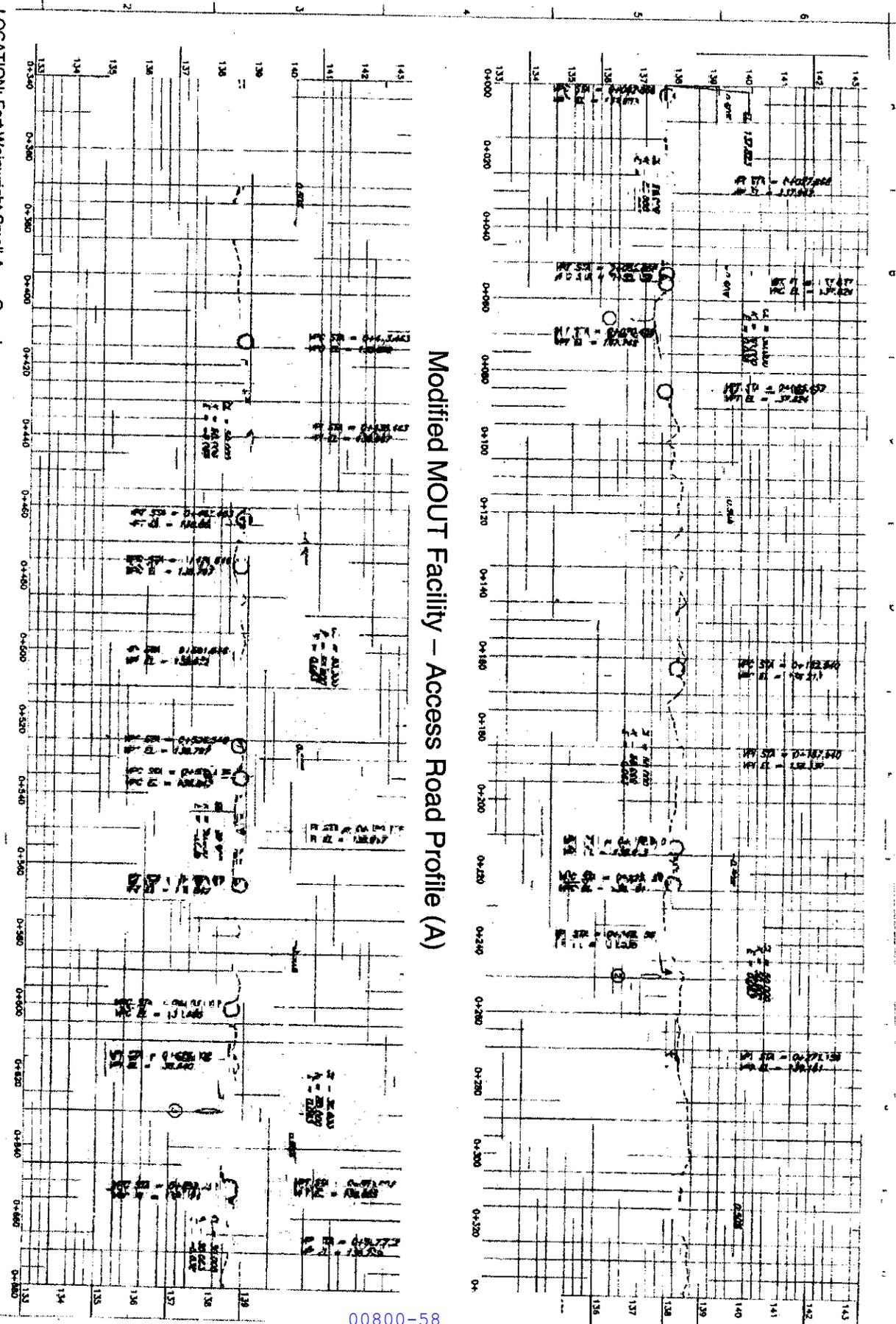


LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian



4-2002-1098
Tanana River 222
12/15/2003

Modified MOUT Facility - Access Road Profile (A)

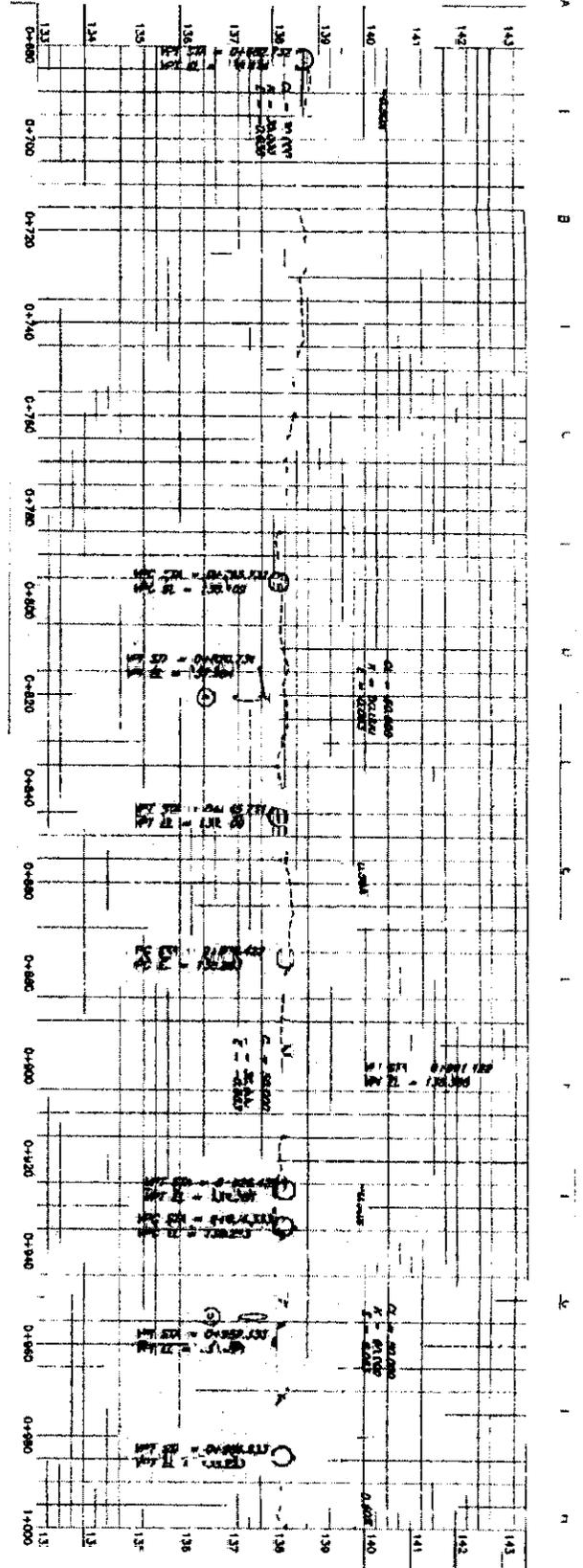


FTW ACCESS RD. 1

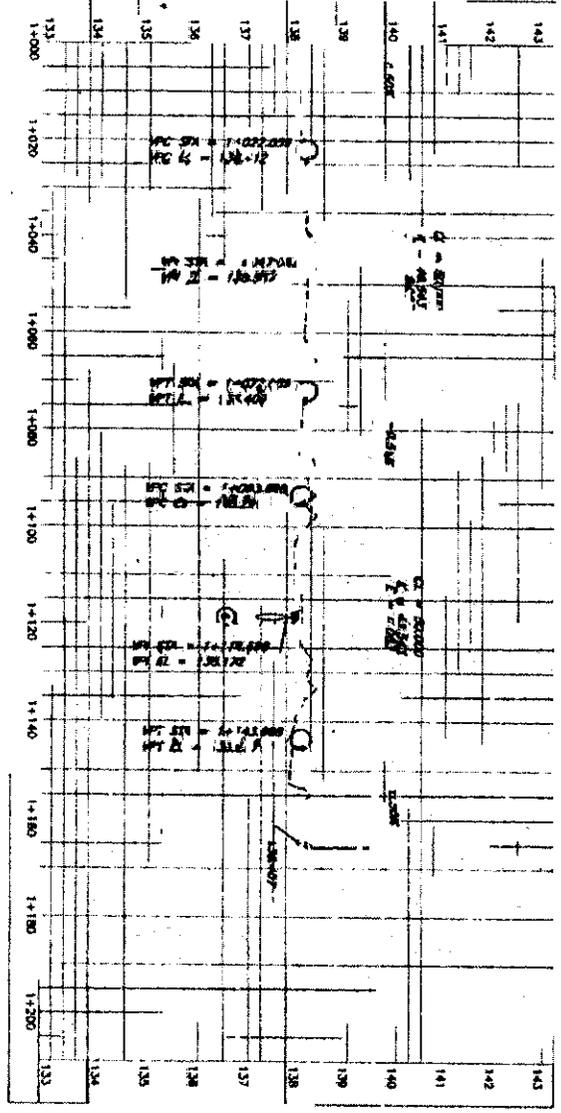
LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian



4-2002-1098 Tanana River 222
 12/15/2003

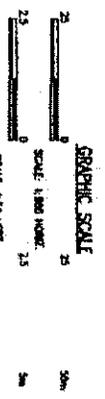


Modified MOUT Facility - Access Road Profile (B)



FTW ACCESS RD. 1

LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

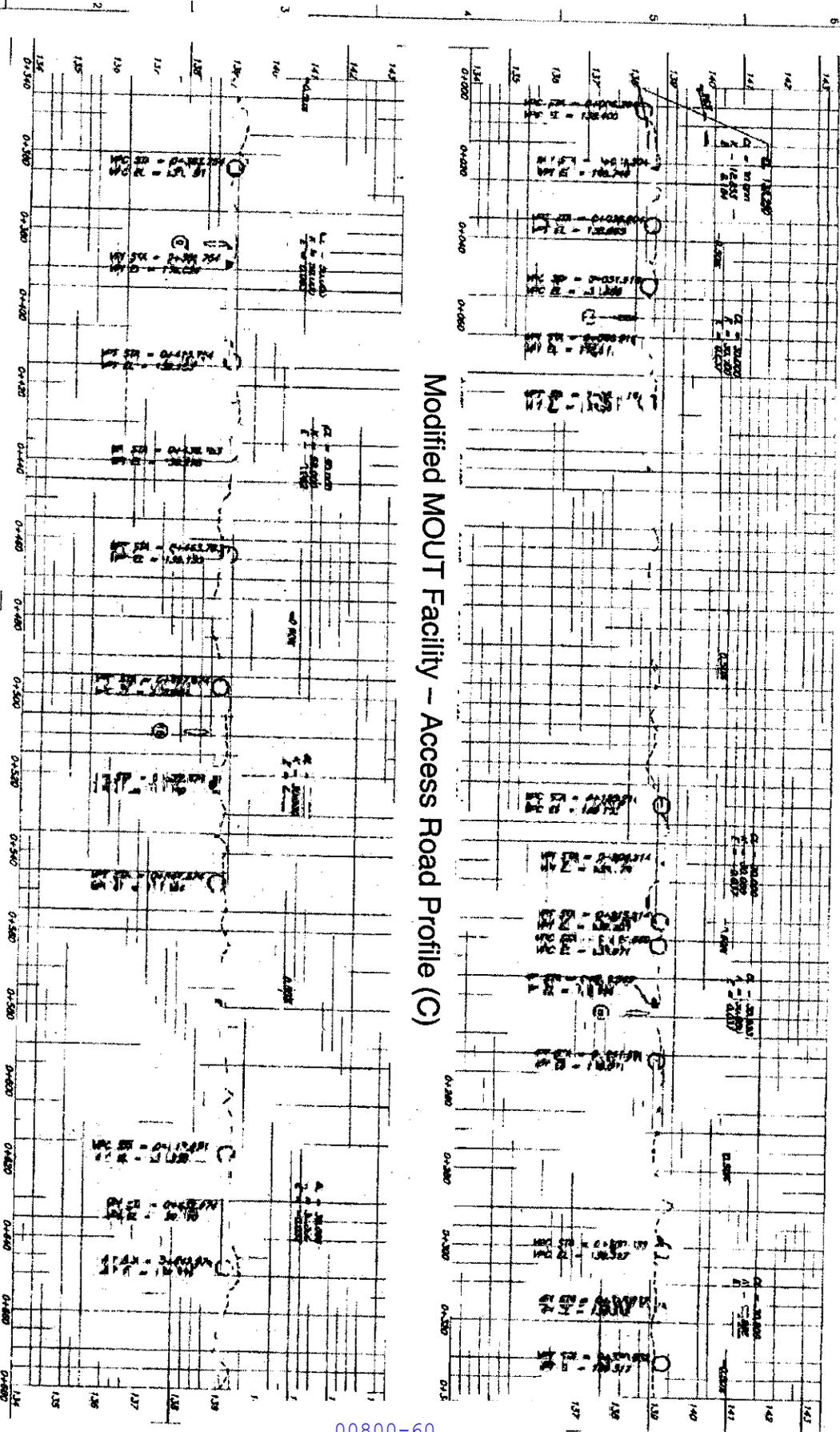


4-2002-1098

Tanana River 2002

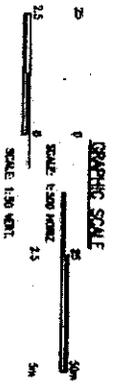
12/15/2003

Modified MOUT Facility - Access Road Profile (C)



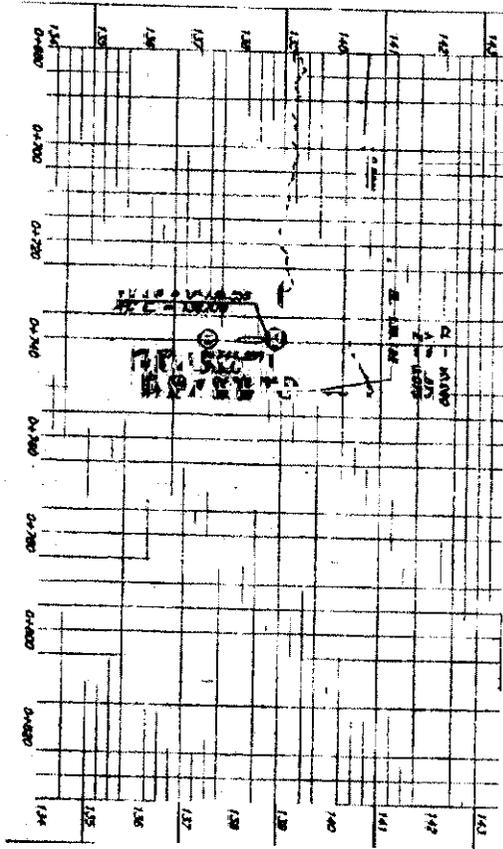
LOCATION: Fort Wainwright Small Arms Complex
 PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
 NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

FTW ACCESS RD. 2



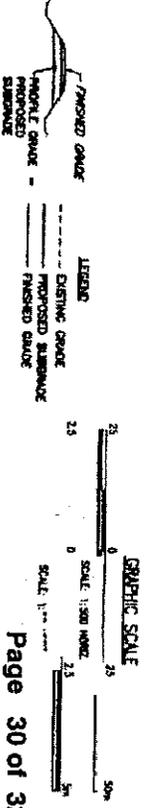
4-2002-1098 Tanana River 222
 12/15/2003

Modified MOUT Facility - Access Road Profile (D)



FTW ACCESS RD. 2

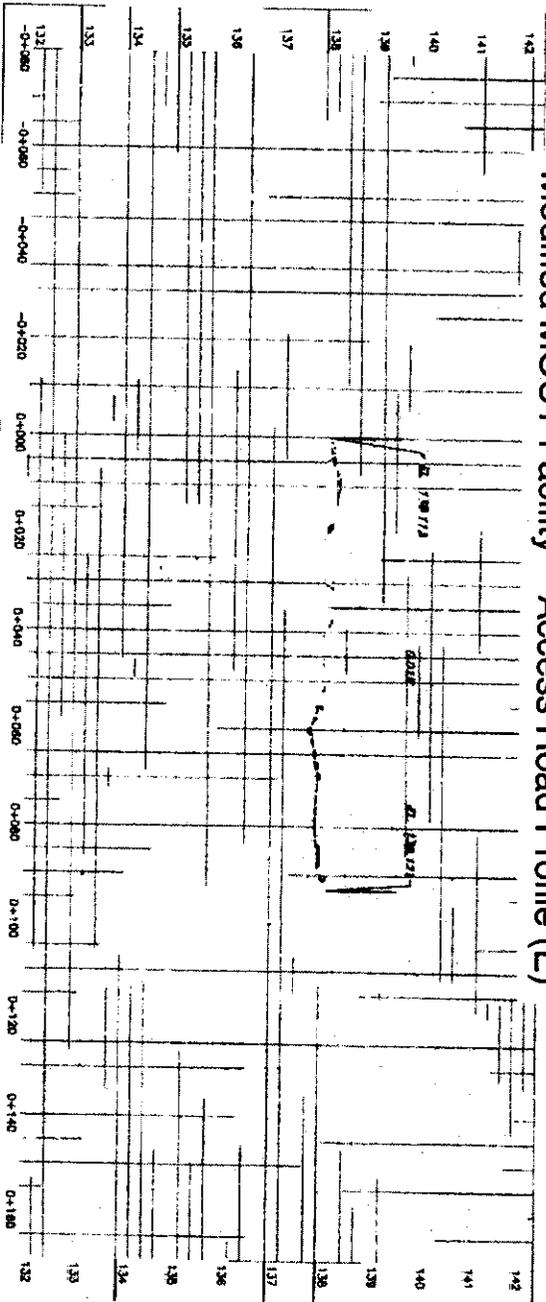
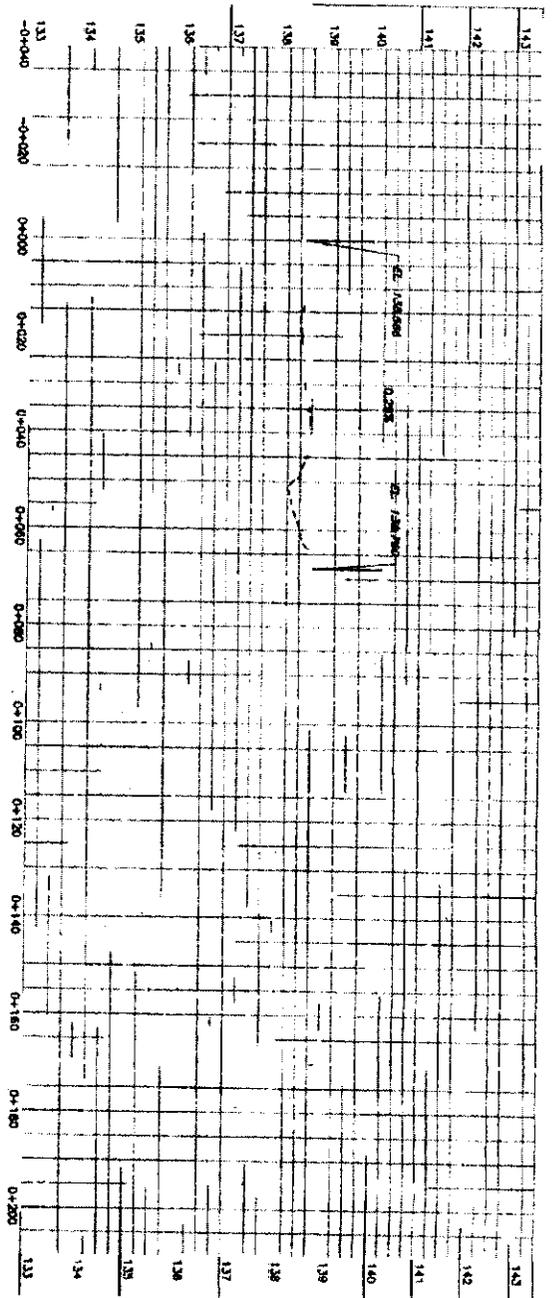
LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian



4-2002-1098 Tanana River 222
12/15/2003

Modified MOUT Facility - Access Road Profile (E)

SHOOT TOWER BARR



LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in Infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

ASSAULT ROAD



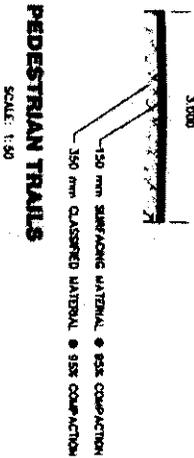
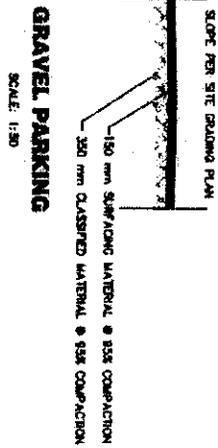
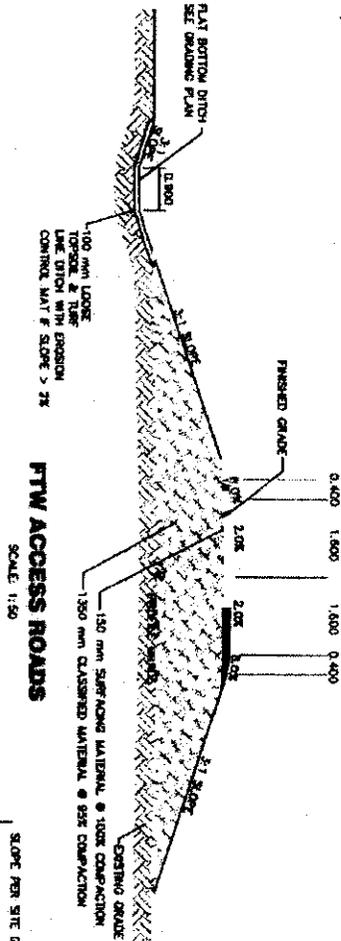
NOTE: CONTRACTOR SHALL BE OBLIGATED TO MAINTAIN THE EXISTING ROAD TO ORIGINAL FINISH ELEVATIONS BY THE END OF THE PROJECT. ANY CHANGES TO THE EXISTING ROAD SHALL BE NOTED ON THE DRAWINGS.

4-2002-1088

Tanana River 202

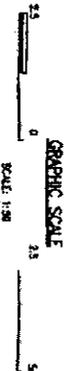
12/15/2003

Modified MOUT Facility – Access Road Cross Sections



LOCATION: Fort Wainwright Small Arms Complex
PURPOSE: Construct a Modified MOUT Facility to provide standard ranges to train soldiers in infantry squad tactics and basic urban operations.
NEAREST WATERBODY: Tanana River
 Fairbanks North Star Borough
 Section 20 & 29 T1S, R1E, Fairbanks Meridian

NOTE:
 ALL MEASUREMENTS ARE IN MILLIMETERS
 UNLESS OTHERWISE NOTED



4-2002-1098 Tanana River 222
12/15/2003

DEPARTMENT OF THE ARMY PERMIT

Permittee United States Army, Fort Wainwright, Alaska

Permit No. 4-2002-1098, Tanana River 222

Issuing Office U.S. Army Engineer District, Alaska

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Place 93,457 cubic yards of fill material into 26.4 acres of wetlands to construct a Modified Military Operations in Urban Terrain (MOUT) Facility. The MOUT will include a Breach Facility, an Urban Assault Course, and shoot house with supporting facilities consisting of electric service; short, crushed aggregate access roads and parking areas; an ammo breakdown facility; a warm-up building; self-contained dry-flush Arctic latrines; and information systems.

All work will be performed in accordance with the attached plan, sheets (1-32), dated December 15, 2003.

Project Location: The project is located within the small arms range complex at Fort Wainwright, Alaska, within sections 20 and 29, Township 1 South, Range 1 East, Fairbanks Meridian, Fairbanks, Alaska. 64° 48' 23" N, 147°35' 30" W. USGS Fairbanks D-2 SE Quadrangle.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on February 28, 2007. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

1. All disturbed and fill areas shall be stabilized to prevent erosion. Increased water turbidity and accumulation of sediment in drainages, soughs, and other wetlands shall be evidence of insufficient stabilization.
2. No fill or construction materials shall be stockpiled on adjacent wetlands outside the project boundary.
3. Natural drainage patterns shall be maintained by the installation of culverts of adequate size and number.
4. Prior to fill placement, a silt fence or similar structure shall be installed on a line parallel to and within 5' of the proposed fill toe of slope within all wetland areas that contain standing water that is connected to any natural body of water or where the fill toe is within 25' of such a water body. This structure shall remain in place until the fill has been stabilized or contained in another manner. Silt fences will not have to be installed if the construction activity is occurring during the time that the water is in a frozen state.

Special Information:

Any condition incorporated by reference into this permit by General Condition 5, remains a condition of this permit unless expressly modified or deleted, in writing, by the District Engineer or his authorized representative.

Further Information:

1. Congressional Authority: You have been authorized to undertake the activity described above pursuant to:
Section 404 of the Clean Water Act (33 U.S.C. 1344).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorization required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.

(REVERSE OF ENG FORM 1721)

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

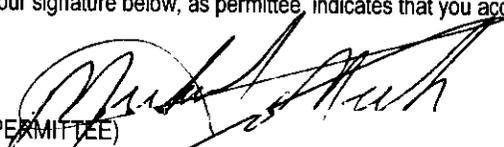
b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

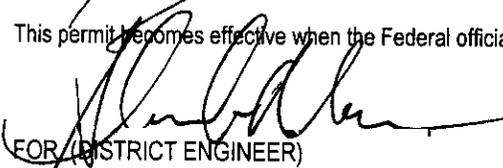
6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.


(PERMITTEE)

16 Feb 04
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.


FOR (DISTRICT ENGINEER)

19 Feb 04
(DATE)

Colonel Timothy J. Gallagher
Sheila Newman, Regulatory Project Manager
North Section, Regulatory Branch

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE)

(DATE)

Eielson AFB Waste Disposal / Borrow Pit Worksheet**FTQW # / PROJECT TITLE: Squad Infantry Battle Course, for Modified MONT Facility**Air Force Project Manager / Office Symbol / Telephone Number: Dave Patterson, 353-1242Contractor Project Engineer / Company / Telephone Number: Chris Campbell, (907) 753-5797**--PART I (To be completed by the project manager)--**Campbell**ATTACH AF FORM 332 FOR PROJECT****HISTORICAL:** Is this work occurring on the flightline ramp, run-way (1131) or at one of the following buildings, note the new building numbers are in parentheses: 1120 (2287), 1121 (2311), 1123 (2339), 1124 (2341), 1125 (2347), 1127 (2355), 1128 (2357), 1132 (2359), 1133 (2383), 1134 (2381), 1135 (2379), 1136 (2377), 1138 (2421), 1140 (2511), 1141 (2509), 1146 (2577), 1183 (2681), 1190 (2685) or 3112 (354)?

Yes or No No

REQUIRED SURVEYS:

1. Lead-based paint survey accomplished. Attach survey and give a brief description of the results or state why a survey is not required:

N/A

2. Asbestos survey. Attach results or state why a survey is not required:

N/A

WASTES TO BE GENERATED:1. Trees: N/A number, square feet, or acres2. Trees and brush or hydro-axed vegetation and soil mixture: N/A cubic yards3. Clean soil: N/A cubic yards - give brief description (percent silt, sand, gravel, etc):4. Contaminated soil: N/A cubic yards. Type of contaminate(s):5. Concrete: N/A cubic yards

6. Asphalt:

a. Chunk: N/A cubic yardsb. Milled: N/A cubic yards

Eielson AFB Waste Disposal / Borrow Pit Worksheet**FTQW # / PROJECT TITLE: Squad Infantry Battle Course, for Modified MONT Facility****WASTES TO BE GENERATED (continued):**7. Asbestos: N/A cubic yards8. Lead Based Paint Debris: N/A Give brief description:

TCLP Results:

9. Hazardous Wastes:

PCB light ballasts: N/ANon-PCB light ballasts: N/AExit light ballasts: N/ANon-incandescent lights: N/ATransformers: N/ATransformer oil: N/AMercury thermostats: N/ASmoke detectors: N/ABatteries: N/ARags with oil, grease, solvents: N/AUsed solvents: N/AWaste paint: N/AUn-used hazardous materials: N/AUsed spray cans: N/AOther: N/A

10. Construction / Demolition Wastes (wood, glass, sheetrock, pipe, etc):

a. Give brief description:

N/A

b. Items to be salvaged:

N/A

c. Items to be recycled:

N/A

BORROW PITS: Materials required for the project:1. Gravel: 25,000 cubic meters or approximately 32,500 cubic yards2. Topsoil: N/A cubic yards

Eielson AFB Waste Disposal / Borrow Pit WorksheetFTQW # / PROJECT TITLE: **Squad Infantry Battle Course, for Modified MONT Facility****--PART II (To be completed by 354 CES/CEV)--** Koenen**INSTRUCTIONS FOR THE DISPOSAL OF WASTES:**

1. Tree Protection, Transplanting, Replacement, and Method: N/A

2. Wastes to be disposed on base:

Trees, Soil, Concrete:

Hazardous Waste and Asbestos:

3. Wastes to be disposed off base:

All construction wastes (except hazardous wastes) not listed for on base disposal shall be disposed off base by the contractor in an approved landfill in accordance with applicable state and federal regulations.

BORROW PITS:

1. Borrow pit(s) to be used:

Gravel - Mullins Borrow Pit. Other contractors may be using Mullins Pit Borrow Pit. Contractor shall coordinate as required. NOTE: Prior approval from 354 CES/CEVN (377-5182) is required for locating any excavating equipment or processing/screening plant in the pit. Any waste or reject materials from processing base course, concrete aggregate, and asphalt aggregate shall be disposed of as directed by 354 CES/CEVN.

Archaeological Artifacts: Any archaeological artifacts, to include bones, encountered during soil and gravel excavation are property of the federal government and must be turned into the Natural/Cultural Resources Office located in Building 2160 (377-5182).

Topsoil: No topsoil was requested.

2. Pit development, rehabilitation, and/or expansion work required for privilege of using borrow pit(s):

To support further Cathers and Mullins Lake pit development the Squad Infantry Battle Course Contractor will hydro-ax a sparsely treed area 2.75 acres adjacent to Cathers Lake and 420 feet of shoreline along Mullins Pit. The attached illustrations define the pit development (hydro-ax) boundaries. Request all hydro axing activities occur after 1 Aug to ensure compliance with federal migratory act.

Reviewers:

CEVQ ___ FI ___ CEVN ___ BK ___ CEO ___ AES ___ CEOH ___ DF ___ CEOMI ___ GC ___ CEC ___ JP ___.

Date of Issue: 12 Feb 04. This Coordination Review becomes invalid if the project is not awarded within one year from the date of issue.

Gathers Lake Borrow Pit Hydro-axing

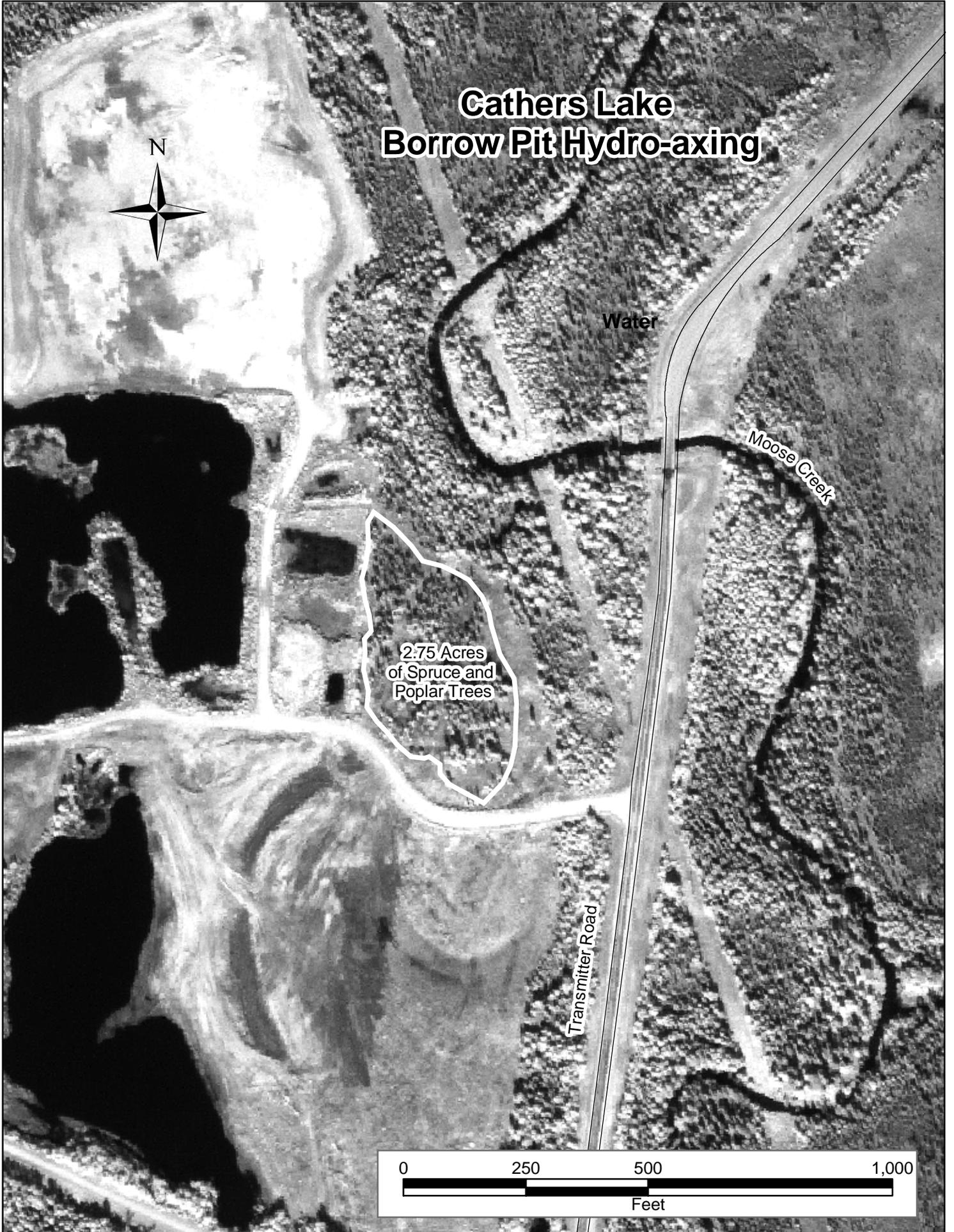
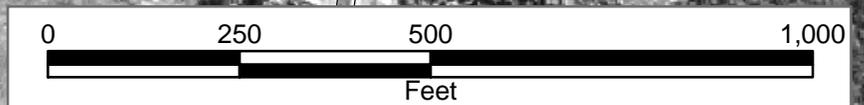


Water

Moose Creek

2.75 Acres
of Spruce and
Poplar Trees

Transmitter Road





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SECTION 02231

CLEARING AND GRUBBING

PART 1 GENERAL

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Nonsaleable Materials

Written permission to dispose of such products on private property shall be filed with the Contracting Officer.

SD-04 Samples

Tree-wound paint

Submit samples in cans with manufacturer's label.

1.2 DELIVERY, STORAGE, AND HANDLING

Deliver materials to, store at the site, and handle in a manner which will maintain the materials in their original manufactured or fabricated condition until ready for use.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 PROTECTION

3.1.1 Roads and Walks

Keep roads and walks free of dirt and debris at all times.

3.1.2 Trees, Shrubs, and Existing Facilities

Trees and vegetation to be left standing shall be protected from damage incident to clearing, grubbing, and construction operations by the erection of barriers or by such other means as the circumstances require.

3.1.3 Utility Lines

Protect existing utility lines that are indicated to remain from damage. Notify the Contracting Officer immediately of damage to or an encounter with an unknown existing utility line. The Contractor shall be responsible for the repairs of damage to existing utility lines that are indicated or made known to the Contractor prior to start of clearing and grubbing operations. When utility lines which are to be removed are encountered within the area of operations, the Contractor shall notify the Contracting Officer in ample time to minimize interruption of the service.

3.1.4 Survey Control Monuments

The Contractor shall be responsible for maintaining and preserving all existing survey control monuments established by The Corp of Engineers for this project. If said monuments are disturbed, destroyed or removed by the Contractor through negligence before their removal is authorized, the Contracting Officer may require replacing them and deduct the expense of the replacement from any amounts due, or become due, to the Contractor.

3.2 CLEARING

Clearing shall consist of the felling, trimming, and cutting of trees into sections and the satisfactory disposal of the trees and other vegetation designated for removal, including downed timber, snags, brush, and rubbish occurring within the areas to be cleared. Clearing shall also include the removal and disposal of structures that obtrude, encroach upon, or otherwise obstruct the work. Trees, stumps, roots, brush, and other vegetation in areas to be cleared shall be cut off flush with or below the original ground surface, except such trees and vegetation as may be indicated or directed to be left standing. Trees designated to be left standing within the cleared areas shall be trimmed of dead branches 75 mm or more in diameter and shall be trimmed of all branches to the heights indicated or directed. Limbs and branches to be trimmed shall be neatly cut close to the bole of the tree or main branches. Cuts more than 75 mm in diameter shall be painted with an approved tree-wound paint.

3.3 TREE REMOVAL

Where indicated or directed, trees and stumps that are designated as trees shall be removed from areas outside those areas designated for clearing and grubbing. This work shall include the felling of such trees and the removal of their stumps and roots as specified in paragraph GRUBBING. All trees shall be disposed of as specified in paragraph DISPOSAL OF MATERIALS.

3.4 GRUBBING

Grubbing shall consist of the removal and disposal of stumps, roots larger than 75 mm in diameter, and matted roots from the designated grubbing areas. Material to be grubbed, together with logs and other organic or metallic debris not suitable for foundation purposes, shall be removed to a depth of not less than 455 mm below the original surface level of the ground in areas indicated to be grubbed and in areas indicated as construction areas under this contract, such as areas for buildings, and

areas to be paved. Depressions made by grubbing shall be filled with suitable material and compacted to make the surface conform with the original adjacent surface of the ground.

3.5 THINNING

Thinning zones A and B are shown in the plans. Thinning in Zone A shall include falling and removing up to 75% of all trees in excess of 150 mm in trunk diameter as measured 300 mm above the ground. Thinning in Zone B shall include falling and removing up to 50% of the trees in excess of 150 mm in trunk diameter as measured 300 mm above the ground. All removed trees shall have their stump removed or ground down until flush with the surrounding ground. The goal of the thinning operation is to leave the surrounding area as natural and undisturbed as possible. Any damage to the surrounding area shall be restored by the Contractor to the existing condition. This includes tire ruts, stump holes (if the stump is removed in lieu of grinding), and other damage that causes holes, depressions, or unnatural sudden elevation changes that could present a hazard to trainees.

Contractor shall mark any trees selected for removal and submit a tree clearing plan for approval.

3.6 DISPOSAL OF MATERIALS

3.6.1 Nonsaleable Materials

Logs, stumps, roots, brush, rotten wood, and other refuse from the clearing and grubbing operations, shall be disposed of by chipping and using the chips as erosion control material on the project site except when otherwise directed in writing. All trees are considered nonsaleable material. Logs too large to chip will be disposed of by the contractor off-site. Such directive will state the conditions covering the disposal of such products and will also state the areas in which they may be placed.

3.7 **AM #6...CONSTRUCTION IN UNEXPLODED ORDNANCE (UXO) HAZARD AREA(S)...AM #6**

AM #6...The Contractor shall recognize the areas indicated in the plans as UXO HAZARD AREA(S). The Contractor shall accomplish the work in these areas as indicated in this section.

3.7.1 Survey of UXO Materials

A preliminary survey and risk assessment has been performed by the government. It has been determined that M918 Target Practice Grenades have been identified in the areas delimited in the plans as UXO HAZARD AREA(S). A M918 Target Practice Grenade (commonly referred to as a blue top because of the blue color of one end of the item) is a target practice round designed to simulate the M430 cartridge in appearance and ballistics. It is fired from the 40mm Grenade Machine Gun. This cartridge is a fixed round of ammunition consisting of a one-piece steel projectile body which is fitted to a cartridge case assembly. An aluminum ogive, which contains a firing pin plate assembly, and a cellular foam assembly is threaded to the projectile body. An aluminum insert, which contains a flash charge chamber, is enclosed in the projectile body. A plastic container holds the flash charge chamber, which contains one gram of flash charge composition.

The projectile assembly is press-fitted into a cartridge case. The case is a hollow bi-chambered aluminum cylinder with a metal closing plug crimped into the open well of the propellant chamber cartridge base. The propellant in the chamber, which contains the propelling charge, has vent holes in the top and is sealed at the bottom by a closing plug. A percussion primer is crimped into the center opening in the closing plug. The propellant chamber acts as a high-pressure chamber, and the upper hollow cavity in the case acts as a low-pressure chamber.

3.7.2 Identification of and Handling Procedures for Identified UXO Materials in areas other than depicted UXO Hazard Areas

At the beginning of each work day, a representative of the Contracting Officer will conduct a survey of the site to identify and remove any UXO material. In the event the Contractor encounters what he believes to be UXO material, he shall immediately notify the Contracting Officer's on-site representative for classification and removal (if required) of the UXO material. Further procedures will be prescribed in the preconstruction conference. It is not anticipated that any substantial delays will be encountered as a result of UXO material clearing.

3.7.3 Work within Identified UXO Hazard Areas

Any survey, stake-out, clearing, grubbing, excavation, placing of fill material or other work within identified UXO HAZARD AREA(S) shall be accomplished via mechanical means. No personnel shall be allowed on the ground in these areas for any reason prior to placement of the full depth of the fill in these sections. No personnel shall come in contact with the existing ground for any reason in these areas.

3.7.4 Worker Safety

It is recommended that the equipment used for work within the identified UXO HAZARD AREAS be equipped with fully enclosed cabs for equipment operator safety. Damage to equipment by UXO materials identified in the paragraph above is assumed to be minimal due to the low charge composition of the material. At a minimum, equipment operators shall be equipped with eye protection and shall wear long sleeved shirts, full length pants, hard hats, gloves and safety shoes/boots while operating equipment in the identified UXO HAZARD AREA(S). ...AM #6

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SECTION 02313

EARTHWORK FOR BUILDINGS

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM C 117	(1995) Materials finer than 0.075mm sieve in mineral aggregates by washing
ASTM C 136	(2001) Sieve Analysis of Fine and Coarse Aggregates
ASTM D 75	(2003) Sampling Aggregates
ASTM D 422	(1963; R 1998) Particle-Size Analysis of Soils
ASTM D 1556	(2000) Density and Unit Weight of Soil in Place by the Sand-Cone Method
ASTM D 1557	(2002) Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/cu. ft. (2,700 kN-m/cu.m.))
ASTM D 2167	(1994; R 2001) Density and Unit Weight of Soil in Place by the Rubber Balloon Method
ASTM D 2922	(2001) Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
ASTM D 3017	(2001) Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)

1.2 DEFINITIONS

1.2.1 Nonfrost Susceptible Soils

Nonfrost susceptible soils are inorganic soils containing less than three percent by weight of grains finer than 0.02 mm. The methods of test used shall be the ASTM C 117, ASTM C 136, ASTM D 75, and ASTM D 422.

1.2.2 Classified Fill and Backfill

Approved, well-graded, non-frost susceptible material consisting of sand, gravel or crushed rock, and free of muck, frozen material, organic materials, refuse or construction debris. Classified Material should contain not more than 60 percent, by weight, passing the 4.7 mm U.S. sieve, not more than six (6) percent passing the .075mm sieve, and not more than three (3) percent smaller than 0.02 mm, all measured relative to the fraction passing the 75-mm sieve. The maximum particle size should not exceed two-thirds of the lift thickness.

1.2.3 Surfacing Material

Surfacing material for gravel surfaced roads should be crushed aggregate conforming to the following gradation:

SURFACING MATERIAL

<u>Sieve Size (mm)</u>	<u>Percent Finer By Weight</u>
25.0	100
9.5	50-85
4.7	36-65
2.00	25-50
0.425	15-30
0.075	2-8
0.020	0-3

1.2.4 Unclassified Fill and Backfill

Approved material with a Plasticity Index (PI) less than six (6) consisting of silt, sand, gravel or crushed rock, and free of muck, frozen material, organic materials, refuse or construction debris. Unclassified Material should contain not more than 15 percent, by weight, passing the 0.075 mm sieve, measured relative to the fraction passing the 75-mm sieve. The maximum particle size should not exceed two-thirds of the lift thickness.

1.2.5 Fill

Fill is considered to be material placed above the original ground line.

1.2.6 Backfill

Backfill is considered to be material placed in an excavation made under this contract.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Compaction Test Plan

The proposed location of all compaction tests, in 3 copies prior to commencing operations.

Heating and Monitoring Plan

The procedures proposed for winter protection of foundations and slabs by heating, and monitoring temperatures.

Submit 15 days prior to starting work.

SD-09 Manufacturer's Field Reports

Compaction Test Report

Test results, with amended compaction test plan as specified herein. A copy must be provided before the fill or backfill will be accepted as completed work.

1.4 SOURCE OF MATERIALS

Excavated shall be used to the maximum extent possible for fill and backfill, or as directed. Only clean, non-contaminated material shall be used as backfill. Excavated material not used shall be wasted as directed, provided, however, that no material shall be wasted without prior approval.

Classified fill and backfill and unclassified fill and backfill shall be obtained by selection from the excavated material. If the excavation is insufficient in quantity, or unsuitable, additional materials may be obtained from the designated borrow pit.

1.5 MAXIMUM DENSITY DETERMINATIONS

1.5.1 Definition

Degree of compaction shall be expressed as a percentage of the maximum density obtained by the test procedure presented in ASTM D 1557.

1.5.2 Density Tests

- a. Characteristics of backfill materials shall be determined in accordance with particle size analysis of soils ASTM D 422 and moisture-density relations of soils ASTM D 1557. A minimum of one particle size analysis and one moisture-density relation test shall be performed on each different type of material used for bedding and backfill.
- b. Test shall be performed per paragraph TESTING. Field in-place density shall be determined in accordance with ASTM D 1556, ASTM D 2167, or ASTM D 2922. When ASTM D 2922 is used, the calibration

curves shall be checked and adjusted using the sand cone method as described in paragraph Calibration of the ASTM publication. ASTM D 2922 results in a wet unit weight of soil and when using this method, ASTM D 3017 shall be used to determine the moisture gauges shall be checked along with density calibration checks as described in ASTM D 3017. The calibration checks of both the density and moisture gauges shall be made at the beginning of a job, on each different type of material encountered, at intervals as directed by the Contractor Officer. Copies of calibration curves, results of calibration tests, and field and laboratory density tests shall be furnished to the Contracting Officer.

1.6 SUBSURFACE INVESTIGATIONS

Explorations consisting of drill holes and/or test pits have been made at the site of the building to assist the Contractor in ascertaining the character of the excavation material to be encountered; however, the Government does not guarantee that materials other than those disclosed by the drill holes or opened pits will not be encountered, or that the proportions of the various materials will not vary from those indicated by the explorations. Additional data on subsurface conditions are available for review in the Office of the Alaska District Engineer.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION

3.1 CLEARING AND GRUBBING

Unless otherwise shown, the areas within lines 7,620 mm outside of each building and structure line shall be cleared and grubbed of trees, stumps, roots, brush and other items that would interfere with construction operations. Stumps, logs, roots more than 40 mm in diameter, and other organic or metallic debris shall be completely excavated and removed within building and structure lines, and shall be excavated and removed to a depth not less than 460 mm below original ground surface in the remainder of the cleared areas. The resulting depressions shall be completely filled and compacted in accordance with the applicable paragraph of this specification unless further excavation is required. Building and utilities materials shown to be salvaged or to be installed in the work under this contract shall be removed carefully by workmen skilled in the particular trade involved.

3.1.1 Disposal of Cleared and Grubbed Material

Material removed and not designated as salvage material shall be disposed of as specified or shown. To the maximum extent possible, material will be chipped and spread as erosion control material. Any logs too large to chip will be disposed of offsite by the contractor.

3.2 STRIPPING OF TOPSOIL

Where indicated or directed, topsoil shall be stripped to a depth as directed. Topsoil shall be spread on areas already graded and prepared for

topsoil, or transported and deposited in stockpiles convenient to areas that are to receive application of the topsoil later, or at locations indicated or specified. Topsoil shall be kept separate from other excavated materials, brush, litter, objectionable weeds, roots, stones larger than 50 mm in diameter, and other materials that would interfere with planting and maintenance operations. Any surplus of topsoil from excavations and grading shall be stockpiled in locations indicated. See Section 02921 SEEDING for definition of Topsoil.

3.3 GENERAL EXCAVATION

The Contractor shall perform excavation of every type of material encountered within the limits of the project to the lines, grades, and elevations indicated and as specified and shall include trenching for utility systems to a 1,525 mm outside the building line and all work incidental there to. Satisfactory excavated materials shall be transported to and placed in fill or embankment within the limits of the work.

Unsatisfactory materials encountered within the limits of the work shall be excavated below grade and replaced with satisfactory materials as directed.

Such excavated material and the satisfactory material ordered as replacement shall be included in excavation. Surplus satisfactory excavated material not required for fill or embankment shall be disposed of in areas approved for surplus material storage or designated waste areas. Unsatisfactory excavated material shall be disposed of in designated waste or spoil areas. During construction, excavation and fill shall be performed in a manner and sequence that will provide proper drainage at all times. Material required for fill or embankment in excess of that produced by excavation within the grading limits shall be excavated from the borrow areas indicated or from other approved areas selected by the Contractor as specified.

3.3.1 Field Modifications

If nonfrost susceptible soils are encountered within the depth below finished grade as indicated on the drawings for depth of excavation, the Contractor shall excavate only to depths such that the nonfrost susceptible materials are uncovered or to the bottom of the footing or slab whichever is greater. If unsuitable soil conditions in the opinion of the Contracting Officer are encountered at the excavation lines specified, he may direct that extra excavation performed. The Contractor shall perform such extra excavation only when so directed in writing, and the extra work shall include both the necessary excavation and the placement and compaction of backfill material required to restore the excavation to the depth indicated on the drawings. When the excavation is carried to a line either above or below the elevations specified, an equitable modification of the contract price will be made. Backfill material shall not be placed until the Contractor has taken cross sectional elevations and measurements of the area excavated in the presence of the Contracting Officer.

3.3.2 Drainage

Excavation shall be performed in the dry. The excavations and the area immediately surrounding each excavation for a distance of 3,000 mm, including slopes and ditches, shall be continually and effectively drained

away from the excavation. The excavation for inlet, outlet, and diversion ditches and the furnishing and operating of dewatering equipment, as necessary, shall be performed under this specification. Suitable precautions shall be taken to prevent any erosion from undercutting previously concreted footings and slabs. Excavations shall be kept free from ponding until the permanent work in the excavations has been completed and accepted, and the excavations have been completely backfilled.

3.3.3 Shoring

Shoring, including sheet piling, shall be installed during excavation where required for the protection of workmen, banks, structures and utilities.

3.3.4 Disposal of Excavated Material

Suitable excavated material shall be placed in the proper section of the permanent site work required for the project under contract. Suitable material that cannot be placed readily in the permanent work shall be separately stockpiled as directed. Stockpiles shall be kept in a neat, well-drained and workable condition at all times. Material in excess of that required for the permanent work under this contract and any unsuitable material shall be disposed of as specified or shown. No excavated material shall be deposited at any time in a manner that may endanger any structure by direct pressure, by overloading banks contiguous to the operations, or that may be in any way detrimental to the completed work or obstruct any existing drainage course.

3.3.5 Protection of Utilities

When utility lines are encountered within the area of operations, the Contractor shall notify the Contracting Officer in ample time for the necessary measures to be taken to prevent interruption of the service. The existing utilities to be retained and utilities constructed under this contract that are shown on the drawings or the location of which is made known to the Contractor and adjustment in payment will be made by the Government at rates determined or approved by the Contracting Officer. Inactive or abandoned utilities shall be removed and the remaining ends capped or plugged outside the building excavation line.

3.4 FILL AND BACKFILL

No fill or backfill shall be placed until the subgrade has been checked and approved, and in no case shall it be placed on a subgrade that is muddy, frozen, or contains frost. Fill or backfill shall not be placed against foundation walls prior to 7 days after completion of the wall and then only after approval. Fill or backfill shall be brought up evenly on each side of wall as far as practicable. Heavy equipment for spreading and compacting backfill shall not be operated closer to the wall than a distance equal to the height of the backfill above top of footing. Care shall be exercised to avoid any wedging action or eccentric action upon or against the structure, and to avoid any disturbance or damage to the work. Each layer of fill or backfill shall be spread, and moistened, or dried by aeration, to the moisture content required to attain the specified degree of compaction.

3.4.1 Classified Fill and Backfill

Where classified fill or backfill is shown on the drawings, or is required for additional excavation found necessary by the Contractor for its operations, such fill shall consist of material as herein before specified and it shall be placed in layers not exceeding 200 mm in loose thickness, uniformly compacted to at least 95 percent compaction, unless otherwise shown on the drawings, with vibratory, or equal, machine compaction equipment of an approved type. Layer thickness shall not exceed 100 mm where power-driven hand tampers are used. Portions of any layer in which the materials become segregated to the extent that the required percent compaction cannot be attained, shall be removed and replaced with satisfactory materials, or blended with additional material until segregation is eliminated and specified percent compaction can be attained.

Where classified fill or backfill extends below the footings, it shall also extend to a vertical line 1,070 mm outside the projected exterior wall line, or to the lines as shown on the drawings.

3.4.2 Unclassified Fill and Backfill

After completion of foundation footings and wall, and other construction below the elevation of the final grades, and prior to backfilling, all forms shall be removed and the excavation shall be cleaned of all trash and debris. Backfilling or fill placed outside the exterior walls and above the bottom of the footings shall be unclassified, except where otherwise indicated on the drawings, and shall be placed in horizontal layers not in excess of 200 mm, (where hand tampers are used) in thickness. Each layer shall be compacted by hand or machine tampers or by other suitable equipment to at least 85 percent compaction. Backfill shall be brought to a suitable elevation above grade to provide for anticipated settlement and shrinkage thereof. Basement walls and floor slabs shall be protected from frost damage where construction is discontinued for the winter. To preclude frost damage to structures without basements, where construction is to be discontinued for the winter, no unclassified material shall be placed adjacent to exterior walls prior to placement of classified material within the structure.

3.4.3 Winter Protection

The Contractor shall take adequate precautions to protect foundations and floor slabs from damage due to frost action. It shall be the responsibility of the Contractor to repair or replace all such damage at no additional cost to the Government, and with no extension of the contract completion date. If, in the opinion of the Contracting Officer, repair of damage will result in an unsuitable facility, replacement of damaged portions of work will be directed. The following minimum requirements shall be met:

3.4.3.1 Backfilling

Exterior foundation footings and walls for slab-on-grade structures shall be backfilled to finished grade prior to the ambient air temperature falling below 0 degrees C. The backfill and/or insitu material shall be

complete within a minimum of 1525 mm each side of the footing or wall. In lieu of this backfilling, the exterior footings may be heated as specified below. To preclude frost damage to slab-on-grade structures during winter construction, no unclassified material shall be placed adjacent to exterior walls prior to placement of classified material within the structure.

3.4.3.2 Heating

Exterior foundation footings and walls for structures with basements or crawl spaces, and all interior footings and floor slabs for structures with basements, crawl spaces or slab-on-grade construction, shall be protected as specified herein. When the ambient air temperature is below 0 degrees C, foundation footings or walls are not backfilled, the entire structure, to include all the footings or walls, shall be heated to 4.5 degrees C minimum. All temperatures shall be constantly and adequately monitored. The Contractor shall submit a Heating and Monitoring Plan describing the proposed method(s) to be used for winter protection.

3.4.3.3 Alternatives

The Contractor may request an alternative method for winter protection by submitting Heating and Monitoring Plan in writing to the Contracting Officer for approval.

3.4.3.4 Survey

The Contractor shall survey the elevations of all footings and slabs throughout the freezing season as directed by the Contracting Officer. These elevations shall be used to detect any movement of the footings and slabs, and to indicate the adequacy of the precautions taken.

3.5 OPERATION OF BORROW PITS

3.5.1 General

Borrow pits shall be opened and operated by the Contractor within the borrow areas shown on the drawings for the production of borrow materials required to complete the work under this section. Within the general borrow area, the Contracting Officer will designate a specific area for production of borrow materials required for work in this contract. The method of operation the pits will be subject to approval in order to obtain materials conforming to the specified requirements, to insure utilization of available materials, the pits shall be opened in such manner as to expose the vertical faces of the deposit for suitable working depths. All strata and pockets of unsuitable materials overlying or occurring in the deposit shall be wasted as directed. Unless otherwise indicated on the drawings, pits shall be opened and excavated to a minimum depth of 6 meters below the groundwater level existing at the time of borrow operations. Where pits are operated above groundwater level, excavation shall be to a maximum depth of 6 meters below original ground surface. The Government guarantees that sufficient quantities of material can be obtained from the designated area; however, the amount of work involved, the equipment required or the amounts of material required to be processed in order to produce sufficient quantities of suitable materials shall be the

responsibility of the Contractor and the Government will not be liable for the cost resulting from such work or waste. Permafrost may be encountered.

Frozen soils of undetermined extent are known to exist within the general borrow area. It is usual for seasonal frost to exceed 3 meters in depth. Preliminary approval of borrow pits shall not mean that all materials found in the deposit will be acceptable and the right is reserved to reject certain areas, strata, or channels within the areas and zones designated on the drawings when, in the opinion of the Contracting Officer, the material is unsatisfactory for the work under this section of the specifications. All necessary clearing, the grubbing and stripping of overburden of borrow pits, the disposal of waste and debris there from, and satisfactory drainage of the borrow pits shall be considered as incidental operations to the borrow excavations and shall be performed by the Contractor at no additional cost to the Government. As other contractors may be at work in the general borrow pit area, the Contractor shall develop operating procedures to eliminate all interference possible between its own and other contractor personnel and equipment, and such procedures shall be approved, prior to initiation of the work.

3.5.2 Disposal of Waste

All waste materials from stripping operations, and processing operations, and all other material designated as unsuitable by the Contracting Officer for use in the work, shall be disposed of in the designated portion of the borrow area, or as directed. Material meeting criteria may be utilized for earthwork under other sections of this specification.

3.5.3 Final Clean-up

Upon completion of the work covered by this contract, the Contractor shall leave the Government-owned borrow areas and adjacent premises in a satisfactory condition, with free drainage to adjacent drainage area.

3.6 ACCESS TO JOBSITE

The Contractor shall, for the duration of this contract, provide bridging of excavation or other means of access to existing structures or construction sites in the areas covered by this contract.

3.7 WEATHER LIMITATIONS

It shall be the responsibility of the Contractor to protect all areas of completed work against any detrimental effects due to weather, by approved methods. Any areas of completed work that are damaged by freezing or rain, shall be reconditioned, reshaped and recompacted by the Contractor in conformance with the requirements of this specification without additional cost to the Government.

3.8 REPAIR OF EXISTING WORK

All sidewalks, fences, poles and other existing feature that is to be retained but has been damaged or removed as a result of performance of the work shall be repaired or replaced in kind in a satisfactory manner.

3.9 CLEANING UP

The Contractor shall at all times keep the construction area, including storage areas used by it, free from accumulations of waste materials or rubbish and, prior to completion of the work, remove any rubbish from and about the premises and all tools, equipment and materials not the property of the Government. Upon completion of the construction, the Contractor shall leave the work and premises in a clean, neat and satisfactory condition.

3.10 BLASTING

Blasting operations, regardless of type, shall not be done.

3.11 TESTING

Compaction tests, and gradation and nonfrost susceptibility test, shall be performed on each layer of compacted material placed. Testing shall be the responsibility of the Contractor and shall be performed by an independent testing agency satisfactory to the Contracting Officer. The Contracting Officer may direct that the tests be taken at locations other than those shown on the submitted compaction test plan and that additional test be taken to supplement these required tests. The Contractor shall remove and replace nonconforming materials and shall recompact and retest failed and replaced areas until the specified degree of compaction is obtained. The Contractor shall amend its submitted compaction test plan to show the exact location and number of test taken. This plan shall be keyed to the test results. The compaction test report of each test shall reflect the type of test procedure and, for compaction tests, the volume or unit weight of the standard and the volume or unit weight of the compacted soil. The record shall also reflect the firm or person that performed the test, the project title and contract number. The area referred to hereinafter which determines the minimum number of test required shall be an area that is compacted in one continuous operation.

- a. The following density test are required beneath structures with on-grade concrete floor slabs and when uniform compaction requirements are specified for beneath footings and slabs. The number of tests shall apply to each layer of material placed.
 - (1) Compacted Area: 50 square meters or less. A minimum of two tests or one test for each 12 square meters of area, whichever will provide the greatest number of tests.
 - (2) Compacted Area: Between 50 and 360 square meters. A minimum of four tests.
 - (3) Compacted Area: 360 square meters or greater. One test for each 90 square meters of area.
- b. The following density tests are required beneath footings for structures with elevated floors (crawl space) and structures where the compaction requirements beneath footings and floor slabs vary. The number of tests shall apply to each layer of material placed.

- (1) Continuous Footings: One test for each 15 meters of continuous footing for walls over 30 meters long or a minimum of two tests per wall, whichever provides the greatest number of tests.
 - (2) Column Footings: One test per footing.
- c. Classified materials in-place are sampled and tested for gradation and nonfrost susceptibility requirements at least once for every 75 compacted cubic meters or portion thereof. For these tests, gradation shall be determined in accordance with ASTM C 136, with ASTM C 117 used to determine minus 0.075 mm sieve material and ASTM D 422 used to determine minus 0.02 mm material.

3.12 **AM #6...CONSTRUCTION IN UNEXPLODED ORDNANCE (UXO) HAZARD AREA(S)...AM #6**

AM #6...The Contractor shall recognize the areas indicated in the plans as UXO HAZARD AREA(S). The Contractor shall accomplish the work in these areas as indicated in this section.

3.12.1 Survey of UXO Materials

A preliminary survey and risk assessment has been performed by the government. It has been determined that M918 Target Practice Grenades have been identified in the areas delimited in the plans as UXO HAZARD AREA(S). A M918 Target Practice Grenade (commonly referred to as a blue top because of the blue color of one end of the item) is a target practice round designed to simulate the M430 cartridge in appearance and ballistics. It is fired from the 40mm Grenade Machine Gun. This cartridge is a fixed round of ammunition consisting of a one-piece steel projectile body which is fitted to a cartridge case assembly. An aluminum ogive, which contains a firing pin plate assembly, and a cellular foam assembly is threaded to the projectile body. An aluminum insert, which contains a flash charge chamber, is enclosed in the projectile body. A plastic container holds the flash charge chamber, which contains one gram of flash charge composition. The projectile assembly is press-fitted into a cartridge case. The case is a hollow by-chambered aluminum cylinder with a metal closing plug crimped into the open well of the propellant chamber cartridge base. The propellant in the chamber, which contains the propelling charge, has vent holes in the top and is sealed at the bottom by a closing plug. A percussion primer is crimped into the center opening in the closing plug. The propellant chamber acts as a high-pressure chamber, and the upper hollow cavity in the case acts as a low-pressure chamber.

3.12.2 Identification of and Handling Procedures for Identified UXO Materials in areas other than depicted UXO Hazard Areas

At the beginning of each work day, a representative of the Contracting Officer will conduct a survey of the site to identify and remove any UXO material. In the event the Contractor encounters what he believes to be UXO material, he shall immediately notify the Contracting Officer's on-site

representative for classification and removal (if required) of the UXO material. Further procedures will be prescribed in the preconstruction conference. It is not anticipated that any substantial delays will be encountered as a result of UXO material clearing.

3.12.3 Work within Identified UXO Hazard Areas

Any survey, stake-out, clearing, grubbing, excavation, placing of fill material or other work within identified UXO HAZARD AREA(S) shall be accomplished via mechanical means. No personnel shall be allowed on the ground in these areas for any reason prior to placement of the full depth of the fill in these sections. No personnel shall come in contact with the existing ground for any reason in these areas.

3.12.4 Worker Safety

It is recommended that the equipment used for work within the identified UXO HAZARD AREAS be equipped with fully enclosed cabs for equipment operator safety. Damage to equipment by UXO materials identified in the paragraph above is assumed to be minimal due to the low charge composition of the material. At a minimum, equipment operators shall be equipped with eye protection and shall wear long sleeved shirts, full length pants, hard hats, gloves and safety shoes/boots while operating equipment in the identified UXO HAZARD AREA(S)....AM #6

-- End of Section --

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DIVISION 02 - SITE CONSTRUCTION

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SECTION 02314

EARTHWORK FOR UTILITIES

PART 1 GENERAL

1.1 SCOPE

This section covers the excavation, trenching, filling, and backfilling for utilities systems to a point 1,525 mm outside the building to be served, complete.

1.2 ITEMS SPECIFIED IN OTHER SECTIONS

The following listed items shall conform to the requirements in Section 02313 except sand bedding, which is defined in Paragraph 1.3.

References

Definitions

Source of Materials

Maximum Density Determinations

Subsurface Investigations

Protection of Utilities

Operation of Borrow Pits

Access to Jobsite

Weather Limitations

Repair of Existing Work

Cleaning Up

Blasting

1.3 Sand Bedding

Sand bedding shall be naturally occurring or crushed sand with the following gradation requirements.

<u>Sieve Size</u>	<u>Percent Passing</u>
1/2"	100
#4	80-100
#16	45-80

#50	10-70
#100	0-10
#200	0-3

1.4 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, the designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Compaction Test Plan

The proposed locations of all compaction tests, in 3 copies prior to commencing placing operations.

SD-09 Manufacturer's Field Reports

Compaction Test Report

Test results, with amended compaction test plan, as specified herein. A copy must be provided before the fill or backfill will be accepted as completed work.

1.5 WORK NOT INCLUDED

All excavation for utilities systems occurring within the enclosing walls or appurtenances of buildings or other structures and out to a line 1.5 m (5 feet) outside of walls or appurtenances thereof is not included under this section of the specifications.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 CLEARING

The area to be excavated for utilities shall be cleared of all trees, stumps, roots and other natural obstructions, existing foundations, utility lines, and other items which will interfere with the construction operations. All logs, stumps, roots, brush, and other refuse from the clearing operations shall be disposed of as shown and specified in Section 02313.

3.2 CONSERVING TOPSOIL

Material determined by the Contracting Officer to be suitable for the support of plant life shall be removed from the area within the limits of excavation and spread on areas already graded and prepared for topsoil, or

stored for later use in connection with topsoiling of areas to be finish graded. The topsoil shall be transported and deposited in storage piles at adjacent locations to be topsoiled, or where directed. Topsoil shall be kept separated from other excavated materials, and shall be piled free of roots and other undesirable material.

3.3 EXCAVATIONS

3.3.1 General

The Contractor shall perform all excavation of every description and of whatever substances encountered to the depth indicated on the drawing or otherwise specified. During excavation, material suitable for backfilling shall be piled in an orderly manner a sufficient distance from the banks of the trench to avoid overloading and to prevent slides or cave-ins. All excavated materials not required or unsuitable for backfill shall be removed and wasted as indicated. Such grading shall be done as may be necessary to prevent surface water from flowing into trenches or other excavations, and any accumulating therein shall be removed by pumping or by other acceptable methods. Such sheeting and shoring shall be done as may be necessary for the protection of the work and the safety of personnel. Unless otherwise indicated, excavation shall be by open cut.

3.3.2 Trench Excavation

Trenches shall be of the necessary width for proper laying of pipe or conduit and the banks shall be as nearly vertical as practicable and shall conform to "Safety and Health Requirements", EM 385-1-1. The bottom of the trenches shall be accurately graded to provide uniform bearing and support for each section of the pipe or conduit at every point along its entire length, except for the portion of the pipe or conduit sections where it is necessary to excavate bell holes for joints and for the proper sealing of the joints. Bell holes and depressions for joints shall be dug after the trench bottom has been graded and, in order that the pipe or conduit will rest on the prepared bottom for as nearly its full length as practicable, bell holes and depressions shall be only of such length, depth, and width as required for properly making the particular type of joint. Except where rock is encountered, care shall be taken not to excavate below the depths indicated. Where rock excavation is required, the rock shall be excavated to a minimum overdepth of 100 mm below the trench depths indicated or specified. Overdepths in the rock excavation and unauthorized overdepths shall be backfilled with classified material compacted to at least 90 percent compaction, except where overdepths occur in wet soils, in which case the overdepths shall be backfilled as specified herein for wet or unstable soil. Whenever wet or otherwise unstable soil that is incapable of properly supporting the pipe, as determined by the Contracting Officer, is encountered in the bottom of the trench, such soil shall be removed to the depth required and the trench backfilled to the proper grade with classified material compacted to at least 90 percent compaction. Special requirements relating to specific utilities are as follows:

3.3.2.1 Storm Drains and Subdrains

For drains up to and including 380 mm in diameter, the width of the trench

at and below the top of the pipe shall be such that the clear space between the barrel of the pipe and the trench wall shall not exceed 200 mm on either side of the pipe. For pipe 460 mm in diameter or greater, the clear space between the barrel of the pipe and the trench wall shall be one-half the pipe diameter but in no case greater than 1,070 mm. The width of the trench above that level shall be as wide as necessary for sheeting and bracing and the proper performance of the work. The bottom of the trench shall be rounded so that at least the bottom quadrant of the pipe shall rest firmly on undisturbed or compacted soil for as nearly the full length of the barrel as proper jointing operations will permit. This part of the excavation shall be done manually only a few meters/feet in advance of the pipe laying, by persons skilled in this type of work.

3.3.2.2 Direct Burial Electrical Conduit and Cable

The trenches shall be, in general, no wider than necessary for proper placing of such work; however, the banks of such trenches need not be kept vertical but may be sloped or widened to such general limits as may be set by the Contracting Officer.

3.3.3 Excavations for Appurtenances

Unless otherwise shown on the drawings, excavation for manholes, and similar structures shall be sufficient to leave at least 300 mm in the clear between the outer surfaces and the embankment or timber that may be used to hold and protect the banks. Any overdepth excavation below such appurtenances that has not been directed by the Contracting Officer will be considered unauthorized and shall be refilled with sand, gravel, or concrete, as directed, at the expense of the Contractor.

3.4 FILL AND BACKFILL

3.4.1 General

Classified fill and backfill shall be used in the areas designated on the drawings or hereinafter specified. Classified fill and backfill under pipe or conduit, and ducts shall be placed in layers not exceeding 200 mm in thickness and thoroughly compacted, to 90 percent compaction, except that any fill or backfill immediately under footings, slabs, manholes, and similar structures shall consist of classified material to a minimum thickness of 300 mm, compacted to 95 percent compaction. Portions of any layer in which the materials become segregated to the extent that the required percent compaction cannot be attained, shall be removed and replaced with satisfactory materials, or blended with additional material until segregation is eliminated and specified percent compaction can be attained. Prior to backfilling, all form lumber shall be removed, and the excavated area cleaned of all trash and debris. No backfilling shall be done until construction work to be covered by backfill has been inspected and approved.

3.4.2 Backfilling of Trenches

The trenches shall not be backfilled until all required pressure and other tests are performed and until the utilities systems as installed conform to

the requirements specified in the several sections covering the installation of the various utilities. Where, in the opinion of the Contracting Officer, damage is likely to result from withdrawing sheeting, the sheeting shall be left in place and the contract price will be adjusted accordingly. The trenches shall be carefully backfilled with the excavated materials as required for backfilling, which shall be deposited in 150 mm layers and thoroughly and carefully rammed until the pipe has a cover not less than 300 mm for electric conduit and concrete-encased ducts. Backfill for pipe insulated or specially coated for protection against corrosion shall consist of sand from the bottom of the trench to 300 mm above the top of the pipe or conduit. The sand shall be placed in 100 mm layers which shall be carefully tamped into place in a manner recommended by the manufacturer of the pipe or conduit. The remainder of the backfill material shall then be placed into the trench in 300 mm layers and tamped. Settling the backfill with water will not be permitted, except when so directed by the Contracting Officer, and then only when the fill is noncohesive granular material and the backfill is under a nontraffic area. Any trenches improperly backfilled, or where settlement occurs, shall be reopened to the depth required for proper compaction, then refilled and compacted, with the surface restored to the required grade and compaction, mounded over and smoothed off. Open trenches across roadways or other areas to be surfaced shall be backfilled with classified materials the entire depth of trench in layers not exceeding 200 mm, and compacted to 95 percent compaction, except the upper 150 mm shall be compacted to 100 percent compaction, so that surfacing of the area can proceed immediately after backfilling is completed. Along all other portions of the trenches, the ground shall be graded to a reasonable uniformity, and the mounding over of the trenches shall be left in a uniform and neat condition.

3.4.3 Fill and Backfill Against Walls of Structures

Fill and backfill against walls of manholes and similar structures shall consist of unclassified material, unless otherwise shown on the drawings, which shall be placed in horizontal layers not in excess of 200 mm in thickness and shall have a moisture content such that the required degree of compaction may be attained. The material shall be compacted by hand or machine tampers or by other suitable equipment to a degree of compaction that will prevent excessive settlement or shrinkage. Fill and backfill shall be brought to a suitable elevation above grade to provide for anticipated settlement and shrinkage thereof. Care shall be exercised to avoid undue pressure against unsupported walls.

3.4.4 Utilization of Excavated Material

Material unsuitable or excess to the needs for fill or backfill will be authorized to be wasted and shall be disposed of in areas indicated on the drawings; or, if drawings do not indicate disposal areas, waste material shall be deposited in approved areas adjacent to the work. No material shall be deposited at any time in a manner that may endanger any structure by direct pressure or by overloading banks contiguous to the operations, or that may be in any way detrimental to completed work. Wasted materials shall be leveled and dressed with adjacent areas.

3.5 Disposal of Waste

All waste materials from stripping operations, and processing operations, and all other material designated as unsuitable by the Contracting Officer for use in the work, shall be disposed of in the designated portion of the borrow area, or as directed. Material meeting criteria may be utilized for earthwork under other sections of this specification.

3.6 Final Clean-Up

Upon completion of the work covered by this contract, the Contractor shall leave the Government-owned borrow areas and adjacent premises in a satisfactory condition, with free drainage to adjacent drainage area.

3.7 TESTING

Compaction tests, and gradation and nonfrost susceptibility tests, shall be performed on each layer of compacted material placed. Testing shall be the responsibility of the Contractor and shall be performed by an independent testing agency satisfactory to the Contracting Officer. The Contracting Officer's Representative may direct that the tests be taken at locations other than those shown on the submitted compaction test plan and that additional tests be taken to supplement these required tests. The Contractor shall remove and replace nonconforming materials and shall recompact and retest failed and replaced areas until the specified degree of compaction is obtained. The Contractor shall amend its submitted compaction test plan to show the exact location and number of tests taken. This plan shall be keyed to the test results. The compaction test report of each test shall reflect the type of test procedure and, for compaction tests, the volume or unit weight of the standard and the volume or unit weight of the compacted soil. The record shall also reflect the firm or person that performed the test, the project title and contract number. The area referred to hereinafter which determines the minimum number of tests required shall be an area that is compacted in one continuous operation.

- a. Work is being accomplished to proper line and grade.
- b. Backfill material is placed in horizontal layers and constructed of specified material, as verified by gradation tests.
- c. Moisture content of materials is controlled to allow proper compaction of materials and compaction effort is as specified.
- d. The number of density tests required for backfill in utility trenches shall conform to the following:
 - (1) Bedding Layers Under Utilities: One test per 60 meters of trench or a minimum of two tests, whichever is greater.
 - (2) Trench Backfill in Graded Areas: Minimum of two tests per layer or one test per layer for each 90 meters of trench, whichever provides the greatest number of tests.
 - (3) Trench Backfill in Traffic Areas: Minimum of two tests per

layer or one test per layer for each 30 meters of trench, whichever provides the greatest number of tests.

- e. Classified materials in-place shall be sampled and tested for gradation and nonfrost susceptibility requirements at least once for every 75 cubic meters or portion thereof. For these tests, gradation shall be determined in accordance with ASTM C 136, with ASTM C 117 used to determine minus No. 200 sieve material and ASTM D 422 used to determine minus 0.02 mm material.

3.8 **AM #6...CONSTRUCTION IN UNEXPLODED ORDNANCE (UXO) HAZARD AREA(S)...AM #6**

AM #6...The Contractor shall recognize the areas indicated in the plans as UXO HAZARD AREA(S). The Contractor shall accomplish the work in these areas as indicated in this section.

3.8.1 Survey of UXO Materials

A preliminary survey and risk assessment has been performed by the government. It has been determined that M918 Target Practice Grenades have been identified in the areas delimited in the plans as UXO HAZARD AREA(S). A M918 Target Practice Grenade (commonly referred to as a blue top because of the blue color of one end of the item) is a target practice round designed to simulate the M430 cartridge in appearance and ballistics. It is fired from the 40mm Grenade Machine Gun. This cartridge is a fixed round of ammunition consisting of a one-piece steel projectile body which is fitted to a cartridge case assembly. An aluminum ogive, which contains a firing pin plate assembly, and a cellular foam assembly is threaded to the projectile body. An aluminum insert, which contains a flash charge chamber, is enclosed in the projectile body. A plastic container holds the flash charge chamber, which contains one gram of flash charge composition. The projectile assembly is press-fitted into a cartridge case. The case is a hollow by-chambered aluminum cylinder with a metal closing plug crimped into the open well of the propellant chamber cartridge base. The propellant in the chamber, which contains the propelling charge, has vent holes in the top and is sealed at the bottom by a closing plug. A percussion primer is crimped into the center opening in the closing plug. The propellant chamber acts as a high-pressure chamber, and the upper hollow cavity in the case acts as a low-pressure chamber.

3.8.2 Identification of and Handling Procedures for Identified UXO Materials in areas other than depicted UXO Hazard Areas

At the beginning of each work day, a representative of the Contracting Officer will conduct a survey of the site to identify and remove any UXO material. In the event the Contractor encounters what he believes to be UXO material, he shall immediately notify the Contracting Officer's on-site representative for classification and removal (if required) of the UXO material. Further procedures will be prescribed in the preconstruction conference. It is not anticipated that any substantial delays will be encountered as a result of UXO material clearing.

3.8.3 Work within Identified UXO Hazard Areas

Any survey, stake-out, clearing, grubbing, excavation, placing of fill material or other work within identified UXO HAZARD AREA(S) shall be accomplished via mechanical means. No personnel shall be allowed on the ground in these areas for any reason prior to placement of the full depth of the fill in these sections. No personnel shall come in contact with the existing ground for any reason in these areas.

3.8.4 Worker Safety

It is recommended that the equipment used for work within the identified UXO HAZARD AREAS be equipped with fully enclosed cabs for equipment operator safety. Damage to equipment by UXO materials identified in the paragraph above is assumed to be minimal due to the low charge composition of the material. At a minimum, equipment operators shall be equipped with eye protection and shall wear long sleeved shirts, full length pants, hard hats, gloves and safety shoes/boots while operating equipment in the identified UXO HAZARD AREA(S)....AM #6

-- End of Section --

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DIVISION 02 - SITE CONSTRUCTION

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SECTION 02319

EARTHWORK FOR VEHICLE TRAFFIC AREAS, SIDEWALKS,
CURBS AND GUTTERS, TARGET EMPLACEMENTS AND AREA GRADING

PART 1 GENERAL

1.1 SCOPE

This section covers the excavation, embankment, preparation of subgrades and grading for roadways, parking areas, driveways, and area grading including excavation, filling, and shaping of drainageways to a point 1.5 m outside of buildings.

1.2 ITEMS SPECIFIED IN OTHER SECTIONS

The following listed items shall conform to the requirements in Section 02313.

REFERENCES

MAXIMUM DENSITY DETERMINATIONS

SUBSURFACE INVESTIGATIONS

OPERATION OF BORROW PITS

ACCESS TO JOBSITE

WEATHER LIMITATIONS

REPAIR OF EXISTING WORK

CLEANING UP

BLASTING

1.3 DEFINITIONS

As specified in Section 02313, except as follows:

1.3.1 Subgrade

Subgrade applies to the natural soil in place or to fill material upon which a subbase or base course is constructed.

1.3.2 Subbase

The subbase shall extend from the top of the subgrade to the underside of

the base course under surfacing.

1.4 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Compaction Test Plan

The proposed locations of all compaction tests, in 3 copies prior to commencing placing operations.

SD-09 Manufacturer's Field Reports

Compaction Test Report

Test results, with amended compaction test plan, as specified herein. A copy must be provided before the fill or backfill will be accepted as completed work.

1.5 MATERIALS

1.5.1 Classified and Unclassified

Classified fill and backfill and unclassified fill and backfill shall be obtained by selection from the excavated materials. If the excavation is insufficient in quantity or unsuitable, additional material may be obtained from the designated borrow pit, or if no borrow pit is indicated on the drawings, it shall be the Contractor's responsibility to obtain satisfactory borrow material.

1.5.2 Excavated

Excavated material shall be used to the maximum extent possible for fill and backfill or as directed. Excavated material not used shall be wasted as directed, provided, however, that no material shall be wasted prior to approval.

1.5.3 Subbase

Subbase, greater than 900 mm below finish grade, shall consist of nonfrost susceptible pit run gravel, sand, combination of these, or other approved nonfrost susceptible classified material. Subbase within 900 mm of finish grade shall consist of classified fill or backfill material deposited, spread, processed, and compacted on the prepared subgrade or subbase.

1.5.4 Base Course

Base course shall conform to Section 02313 EARTHWORK FOR BUILDINGS.

1.5.5 Ditch Lining Material

Conform to Specification Section 02635 CHANNEL LINING.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 CLEARING

3.1.1 General

The areas to serve as subgrade foundation shall be cleared of all trees, stumps, roots, and other obstructions which will interfere with the construction operations. All logs, stumps, roots, brush and other refuse from the clearing operations shall be disposed of by the Contractor. Disposal shall be as specified in Section 02313.

3.1.2 Removal Criteria

No stumps or roots or topsoil containing organic matter shall be permitted to remain within 750 mm of finished grade. At depths greater than 750 mm below finish grade, embedded stumps and roots will be permitted to remain provided stumps are not over 200 mm in height above existing ground.

3.2 CONSERVING TOPSOIL

Material determined by the Contracting Officer to be suitable for the support of plant life shall be removed from the area within the limits of excavation and spread on areas already graded and prepared for topsoil or shall be stockpiled for later use, as directed. Topsoil shall be kept separated from other excavated materials, and shall be piled free of roots and other undesirable material.

3.3 EXCAVATION

3.3.1 General

The Contractor shall perform all excavation of every description and of whatever substances encountered to the lines, grades, and cross sections indicated on the drawings or specified herein. Any excavation beyond the authorized lines, grades, and cross sections shall be backfilled with suitable compacted material without additional cost to the Government. The Contractor shall control the banks of all excavated areas as necessary to prevent movement of soil in areas supporting existing foundations or slabs.

3.3.2 Excavation of Suitable Materials Above Subgrade Line

Where nonfrost susceptible soils are encountered within the depth below finished grade as indicated on the drawings for depth of excavation, the

Contractor shall excavate only to depths such that the nonfrost susceptible soils are uncovered or to the bottom of the base course, whichever depth is greater. The excavations shall be uniformly shaped so that classified backfill material or base course can be properly placed and compacted, and the area shall be feathered to any adjoining areas where frost susceptible materials occur below the subgrade line. The top 150 mm of suitable insitu material shall be compacted to 95 percent compaction.

3.3.3 Field Modifications

If unsuitable soil conditions in the opinion of the Contracting Officer are encountered at the excavation lines specified, he may direct that extra excavation be performed. The Contractor shall perform such extra excavation only when so directed in writing, and the extra work shall include both the necessary excavation and the placement and compaction of backfill material required to restore the excavation to the depth indicated on the drawings. If they are not within the limits stated, an equitable modification of the contract will be made.

3.3.4 Area Grading

Area grading consists of that type of work also commonly referred to by such terms as "site grading" or "overlot grading" and excavation therefore shall consist of the removal of all materials to the lines and grades indicated on the drawings. No special consideration will be given to whether or not frost-susceptible material exists in the subgrade for area grading and its removal there from will not be required.

3.3.5 Ditches

Ditches shall be cut accurately to the cross-sections and grades indicated on the drawings. All roots, stumps, and other foreign matter in the sides and bottom of ditches shall be cut to conform to the slopes, grade, and shape of the section shown. Care shall be taken not to excavate ditches below the grades indicated. Any excessive ditch excavation shall be backfilled to grade either with suitable, thoroughly compacted material, or with suitable stone or cobbles to form an adequate gutter paving, as directed. The Contractor shall maintain all ditches excavated under this specification free from detrimental quantities of leaves, sticks, and other debris until final acceptance of the work. All suitable material excavated from ditches shall be utilized as hereinafter specified. No excavated material shall be deposited within a distance of 900 mm from the edge of a ditch. Any ditches with a slope greater than 2% shall be lined with ditch lining material.

3.3.6 Existing Service Lines and Utility Structures

All existing service lines and utility structures uncovered or encountered during all classes of excavation, including borrow, and during all operations incidental to all grading work, construction of embankments, and backfilling shall be safeguarded and protected from damage. When utility lines are encountered, the Contractor shall notify the Contracting Officer in ample time for the necessary measures to be taken to prevent interruption of the service. The existing utilities that are shown on the

drawings or the location of which is made known to the Contractor prior to excavation shall be protected from damage during the excavation and backfilling and if damaged during excavation, shall be repaired by the Contractor at its own expense. If the Contractor damages any existing utility lines that are not shown or the location of which are not known to the Contractor, report thereof shall be made immediately to the Contracting Officer. If so directed by the Contracting Officer, repairs shall be made by the Contractor, and adjustment in payment will be made by the Government at the rates determined or approved by the Contracting Officer. Inactive or abandoned utilities shall be removed and the remaining ends capped outside the excavation line.

3.4 FILLING AND BACKFILLING

3.4.1 General

Ground surface shall be cleared of all debris and organic materials. All depressions or holes below the general area surface level, whether caused by removal of debris or unacceptable materials, or otherwise, shall be backfilled with approved material and compacted to specified percent compaction and to a level, uniform surface before the construction of other embankment layers. Embankment is not to be placed on ground having a slope greater than one vertical to four horizontal unless specifically so ordered by the Contracting Officer, and, if so ordered, the surface of such ground shall be plowed, stepped, or broken-up, as directed, in such manner that the embankment material will bond with the existing surface. Prepared surfaces shall be wetted and compacted where directed.

3.4.2 Embankments

Embankments shall be exclusive of the base course and shall be constructed of classified and unclassified materials placed at the locations and to the lines and grades indicated on the drawings. The materials shall be deposited and spread uniformly in successive horizontal layers not exceeding 300 mm in loose thickness, except that the subbase shall be constructed in layers not exceeding 200 mm in loose thickness. The maximum dimension of any particle in the subbase shall be not greater than two thirds of the compacted thickness of the layer in which the particle is included. The layers shall be carried up full width from the bottom of the fill to avoid the necessity of widening the edges after the center has been brought up to grade. The layers shall be compacted to 95 percent compaction, as determined by the testing methods stated in Paragraph, MAXIMUM DENSITY DETERMINATIONS. Blading, rolling, and tamping shall continue until the surface is smooth and free from waves and irregularities, and conforms to the elevations shown on the drawings. Water required as an aid in compaction shall be applied in an approved manner. If at any time the subbase material is excessively moistened by rain, it shall be aerated by means of blade graders, harrows, or other suitable equipment until the moisture content is satisfactory, and then compacted and finished as specified above. If specified percent compaction cannot be attained in any one layer, the Contractor shall remove the portions of the layer necessary to permit full compaction, replace, and compact the portions of the layer removed. No payment will be made for excavation or replacement of any material so removed and replaced.

Portions of any layer in which the materials become segregated to the extent that the required percent compaction cannot be attained shall be removed and replaced with satisfactory material, mixed, or blended with additional material until segregation is eliminated and specified percent compaction can be attained. The top of the finished embankments shall be struck off and leveled to the elevations specified, and shall be maintained fully compacted with sufficient moisture content to prevent drying out prior to placing of the base course thereon.

3.4.3 Backfill

Material used to bring the excavated area of unsuitable material up to grade as the subbase shall be classified material from excavation or borrow. The backfill material shall be spread uniformly in the same layers, brought up to grade, compacted and finished as specified for embankments.

3.4.4 Preparation of Subbase

Subbase preparation shall consist of the dressing, shaping, wetting and compacting of the subbase of roads and parking areas. Surfaces shall be cleaned of all foreign substances. Any ruts, or soft yielding spots that may appear in the subbase surface shall be corrected by loosening, removing and adding approved material, reshaping and recompacting the affected areas to line and grade and to the specified percent compaction requirements shown on the drawings and shall extend to include the shoulders.

3.4.5 Sidewalk Subbase

The subbase for portland cement concrete sidewalks shall be of approved classified material placed to a depth of 300 mm below the bottom of the concrete and extending one foot beyond the edge of walk, unless otherwise indicated on the drawings. It shall be placed in layers and compacted to 95 percent compaction.

3.4.6 Area Grading Fill

Area grading fill shall be constructed of unclassified fill materials reasonably free from organic, frozen, or other objectionable materials which may cause excessive settlement. Where shown on the drawings the top 150 mm of area grading fill shall be topsoil as specified in paragraph, CONSERVING TOPSOIL. The fill material shall be placed in successive horizontal layers not exceeding 300 mm in loose thickness and shall be compacted by the routing of the hauling equipment in such a manner that vehicles do not track one another. Soil compacted by construction equipment or soil on compacted cut slopes or grades shall be scarified to a 50 mm depth before applying topsoil. The elevation for area grading shall be such as to provide a finish grade at an elevation as indicated on the drawings. The finish grade surface shall be reasonably smooth and free from irregular surface changes. The degree of smoothness shall be that ordinarily obtainable from either bladegrader or scraper operations. The finish grade surface shall be not more than 50 mm above or below the established finish grade. In those areas where the grade at the limit of grading is above or below the elevation of the adjoining natural surface,

the finish grade shall be maintained to the limit of grading, and the edge of the cut or fill feathered off to the natural slope as shown on the drawings.

3.4.7 Utilization of Excavated Materials

All suitable material removed from the excavation shall be used, insofar as practicable, for fill and backfill, and for such other purposes as directed. No excavated material shall be wasted without authorization. Frost-susceptible materials removed from the excavations shall be utilized in the formation of area grading fill as directed. Materials unsuitable or excess to the requirements for area grading fill will be authorized to be wasted and shall be disposed of in areas adjacent to the work as shown on the drawings; or if the drawings do not indicate disposal areas, waste materials shall be deposited in approved areas adjacent to the work and in such a manner not to obstruct the flow characteristics of any streams or to impair the efficiency or appearance of any structure. No excavated material shall be deposited at any time in a manner that may endanger a partly finished structure by direct pressure, by overloading banks contiguous to the operations, or that may in any other way be detrimental to the completed work.

3.4.8 Ditch Lining Material

Conform to Specifications Section 02635, Channel Lining. Ditch lining material shall be placed wherever the ditch slope exceeds 2%. Layer thickness shall be as shown, however, the minimum layer thickness shall not be less than 300 mm in all cases.

3.5 TESTING

Compaction, gradation, and nonfrost susceptibility tests shall be performed on each layer of compacted material placed. Testing shall be the responsibility of the Contractor and shall be performed by an independent testing agency satisfactory to the Contracting Officer. The Contracting Officer may direct that the tests be taken at locations other than those shown on the submitted compaction test plan and that additional tests be taken to supplement these required tests. The Contractor shall remove and replace nonconforming materials and shall recompact and retest failed and replaced areas until the specified degree of compaction is obtained. The Contractor shall amend its submitted compaction test plan to show the exact location and number of tests taken. This plan shall be keyed to the test results. The record of each test shall reflect the type of test procedure and, for compaction tests, the volume or unit weight of the standard and the volume or unit weight of the compacted soil. The Compaction Test Report shall also reflect the firm or person that performed the test, the project title, and contract number. The area referred to hereinafter which determines the minimum number of tests required shall be an area that is compacted in one continuous operation.

- a. For roadways, driveways, and parking areas, the number of density tests required shall conform to the following requirements for each layer of material placed:

(1) Roadways and driveways up to 90 meters in length and parking areas up to 550 square meters.

(a) Subbase and Base Course: A minimum of two tests or one test for each 20 meters of length or each 140 square meters of area, whichever provides the greatest number of tests.

(b) Subgrade: A minimum of two tests or one test for each 30 meters of length or each 200 square meters of area, whichever provides the greatest number of tests.

(2) Roadways between 90 and 300 meters in length and parking areas between 550 and 1,800 square meters.

(a) Subbase and Base Course: A minimum of four tests or one test for each 45 meters of length or 280 square meters of area, whichever provides the greatest number of tests.

(b) Subgrade: A minimum of four tests or one test for each 60 meters of length or 370 square meters of area, whichever provides the greatest number of tests.

(3) Roadways over 300 meters in length and parking areas over 1,800 square meters.

(a) Subbase and Base Course: A minimum of seven tests or one test for each 75 meters of length or 450 square meters of area, whichever provides the greatest number of tests.

(b) Subgrade: A minimum of five tests or one test for each 90 meters of length or 550 square meters of area, whichever provides the greatest number of tests.

b. Subbase and classified materials in-place shall be sampled and tested for gradation and nonfrost susceptibility requirements at least once for every 75 cubic meters of compacted volume or portion thereof. Gradation shall be determined in accordance with ASTM C 136, with ASTM C 117 used to determine minus 0.075 mm sieve material and ASTM D 422 used to determine minus 0.02 mm material.

c. Base course in-place shall be sampled and tested in accordance with Section 02313, ADOT&PF Specifications and as specified herein.

3.6 **AM #6...CONSTRUCTION IN UNEXPLODED ORDNANCE (UXO) HAZARD AREA(S)...AM #6**

AM #6...The Contractor shall recognize the areas indicated in the plans as UXO HAZARD AREA(S). The Contractor shall accomplish the work in these areas as indicated in this section.

3.6.1 Survey of UXO Materials

A preliminary survey and risk assessment has been performed by the government. It has been determined that M918 Target Practice Grenades have been identified in the areas delimited in the plans as UXO HAZARD AREA(S). A M918 Target Practice Grenade (commonly referred to as a blue top because of the blue color of one end of the item) is a target practice round designed to simulate the M430 cartridge in appearance and ballistics. It

is fired from the 40mm Grenade Machine Gun. This cartridge is a fixed round of ammunition consisting of a one-piece steel projectile body which is fitted to a cartridge case assembly. An aluminum ogive, which contains a firing pin plate assembly, and a cellular foam assembly is threaded to the projectile body. An aluminum insert, which contains a flash charge chamber, is enclosed in the projectile body. A plastic container holds the flash charge chamber, which contains one gram of flash charge composition. The projectile assembly is press-fitted into a cartridge case. The case is a hollow by-chambered aluminum cylinder with a metal closing plug crimped into the open well of the propellant chamber cartridge base. The propellant in the chamber, which contains the propelling charge, has vent holes in the top and is sealed at the bottom by a closing plug. A percussion primer is crimped into the center opening in the closing plug. The propellant chamber acts as a high-pressure chamber, and the upper hollow cavity in the case acts as a low-pressure chamber.

3.6.2 Identification of and Handling Procedures for Identified UXO Materials in areas other than depicted UXO Hazard Areas

At the beginning of each work day, a representative of the Contracting Officer will conduct a survey of the site to identify and remove any UXO material. In the event the Contractor encounters what he believes to be UXO material, he shall immediately notify the Contracting Officer's on-site representative for classification and removal (if required) of the UXO material. Further procedures will be prescribed in the preconstruction conference. It is not anticipated that any substantial delays will be encountered as a result of UXO material clearing.

3.6.3 Work within Identified UXO Hazard Areas

Any survey, stake-out, clearing, grubbing, excavation, placing of fill material or other work within identified UXO HAZARD AREA(S) shall be accomplished via mechanical means. No personnel shall be allowed on the ground in these areas for any reason prior to placement of the full depth of the fill in these sections. No personnel shall come in contact with the existing ground for any reason in these areas.

3.6.4 Worker Safety

It is recommended that the equipment used for work within the identified UXO HAZARD AREAS be equipped with fully enclosed cabs for equipment operator safety. Damage to equipment by UXO materials identified in the paragraph above is assumed to be minimal due to the low charge composition of the material. At a minimum, equipment operators shall be equipped with eye protection and shall wear long sleeved shirts, full length pants, hard hats, gloves and safety shoes/boots while operating equipment in the identified UXO HAZARD AREA(S)....AM #6

-- End of Section --