

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
			J	1	41
2. AMENDMENT/MODIFICATION NO. 0005	3. EFFECTIVE DATE 14-Jul-2004	4. REQUISITION/PURCHASE REQ. NO. W16ROE-4100-7736		5. PROJECT NO.(If applicable)	
6. ISSUED BY USA ENGINEER DISTRICT, NEW YORK ATTN:CENAN-CT ROOM 1843 26 FEDERAL PLAZA NEW YORK NY 10278	CODE W912DS	7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912DS-04-R-0006	
			X	9B. DATED (SEE ITEM 11) 09-Jun-2004	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS		
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> 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 _____ 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 ACKNOWLEDGMENT 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)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
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 <input type="checkbox"/> is not, <input type="checkbox"/> 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.) The purpose of this Amendment is to: 1). To make changes to the the specifications as detailed on the SF 30 continuation sheet. 2). To provide government responses to contractors' questions for informational purposes only. 3). To provide a revised Bid Schedule with an additional line item for Rock Excavation to be completed and turned in with offeror's proposal. 4). To add DFARS clause 252.232-7004 DOD Progress Payments in the solicitation. 5). To provide the Revised Site Safety Plan. 6). To extend the due date for receipt of proposals from 23 July 2004 to 03 August 2004 at 02:00:00 Eastern Standard Time.					
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 CONTRACTING OFFICER (Type or print)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 14-Jul-2004	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

AMENDMENT 0005

Changes to the Specifications:

Section 00800, paragraph 1.37 PARTNERSHIP IMPLEMENTATION PLAN:

Delete the paragraph and replace with the following:

The Government proposes to form a partnership with the Contractor to more effectively accomplish this contract. This partnership would draw on the strengths of each organization in an effort to achieve a quality product, within project budget, and on schedule. This partnership would be bilateral in make-up and participation would be totally voluntary.

The Contractor shall hire a facilitator who will be responsible to develop topics and goals for each partnering meeting [agenda], securing input from the Government and Contractor. The Contractor shall also arrange for an offsite conference location within reasonable proximity to Picatinny, provide all workshop materials, and compile and distribute completed partnering agreement to all participants within 30 days of the initial partnering session. Conference site location will be coordinated with the COR for approval. Contractor should plan for the attendance of approximately 25-30 individuals from the Government in addition to the Contractor's and Subcontractor's personnel.

The costs associated with the partnership conferences will be borne by the Contractor. It is anticipated that each partnership conference will be one workday each in duration. There will be two partnership meetings; First within forty-five days from Notice to Proceed being issued and the second prior to the start of physical construction activities.

Section 01010, Part 1, paragraph 1.1: General Project Description:

Add the following after the last paragraph of this section:

The programming document [FORM 1391] for this project includes a maximum of 28,000 Square Feet to be constructed, though minimally 21,000 Square Feet shall be constructed. Individual room by room as well as building layouts are provided in attachments A and N of this solicitation.

The building layouts in the attachments include designated rooms, with suggested functional adjacencies, as well as square foot area allowance for support room spaces [i.e. electrical panels, mechanical equipment, communication panels, fire protection panels, etc]. Offerors are required

to determine the overall space requirement for support room space to adequately support the mission functions, increasing as required, though may not be less than the allowance shown in the RFP documents. In addition, the Offeror shall not decrease the square foot size of any individual room throughout the buildings nor shall the overall program space exceed 28,000 Square Feet.

Offerors are reminded that room dimensions and/or square footages identified are clear interior space dimensions [length, width, and height] and can't be reduced. Offeror's proposal must include a project that constructs a minimum of 21,000 Square Feet though doesn't exceeding 28,000 Square Feet. Clarification is provided to assist in calculating overall program space [square footage] for the project: Building rooms/spaces that are constructed weather tight are considered at 100% of that square footage and covered areas [including those with weather breaks/panels] are considered at 50% of the actual square footage for purposes of determining overall program space only.

The Room-By-Room descriptions state the allowable maximum explosive weight limits for the individual functional areas. In the storage magazine a maximum of 400lbs TNT, or equivalent HD 1.1d explosives will be stored in each of the four storage bays at any given time.

Section 01010, Part 2, paragraph 2.5: Site Earthwork and Rock Excavation:

Add the following after the first paragraph of this section:

Rock shall be defined as boulders measuring 1/2 cubic yard or more and materials that cannot be removed without systematic drilling and blasting such as rock material in ledges, bedded deposits, unstratified masses and conglomerate deposits, and below ground concrete or masonry structures, exceeding 1/2 cubic yard in volume, except that pavements shall not be considered as rock. Excavation of the material claimed as rock shall not be performed until the material has been cross-sectioned by the Contractor and approved by the Contracting Officer's Representative. Common excavation shall consist of all excavation not classified as rock excavation. Payment for rock excavation will be made in addition to the price bid for the other excavation, as required by contract, and will include all necessary drilling and blasting and all incidentals necessary to excavate and dispose of the rock. Backfill replacing rock excavation will not be paid for separately, but will be included in the unit price for rock excavation. For utility trenching, rock excavation shall be measured and paid for by the number of cubic yards of acceptably excavated rock material. The material shall be measured in place, but volume shall be based on a maximum 30 inch width for pipes 12 inches in diameter or less, and a maximum width of 16 inches greater than the outside diameter of the pipe for pipes over 12 inches in diameter. The measurement shall include all authorized overdepth rock excavation as determined by the Contracting Officer. For manholes and other appurtenances, volumes of rock excavation shall be computed on the basis of 1 foot outside of the wall lines of the structures."

Section 01010, Part 2, paragraph 2.10.1: New Storm Drainage System:

Remove the third sentence from the first paragraph of this section:

Section 01010, Part 2, paragraph 2.15: Electric and Communications

In the second sentence of this section replace 232D with 323D.

Section 01010, Part 4: Architectural Design

The following paragraphs are to replace the current paragraphs of the same name:

4.3.15.3.5 Enclosed Covered Walkways

Provide enclosed covered walkways from each component to the others. Walkways are required from the Explosive Processing and Explosive Machining component to the Administration component, from the Explosive Processing and Explosive Machining component to the Explosive Storage component, and, as described below, alongside the Explosive Processing and Explosive Machining component. Walkways shall be of similar wall and roof construction to match the facility to which adjoined. Walkways shall be enclosed with a translucent panel system designed to withstand wind loads, serve as a weather break, and keep out insects. Walkways shall be lighted as specified in the Electrical section of this RFP. Ceilings may be gypsum board or painted exposed structure. Roofs must be compatible with the facilities to which they are attached. Except as noted below, walkways are not required to be temperature controlled. NOTE: As part of Option 1, provide an enclosed covered walkway from the new facility to Building 225. Covered walkways are not required to provide shelter over roadways.

4.4.2.6 Exterior Enclosed Walkway

The exterior of the Explosive Processing and Explosive Machining components shall have enclosed walkways to allow forklifts and personnel to move between this and the other components without being subject to the elements and to keep out insects. This walkway, on the blast side of the facility, shall also be utilized as the utility corridor and shall be substantial enough to support the necessary mechanical pipes, equipment, ducts, etc. The walls of this enclosure shall be as translucent as possible, using double-faced plastic panels or similar elements. Exterior surfaces of the walkway that are not translucent shall be covered with EIFS.

4.4.4 Option 1, Building 225

As an option to the contract, contractors shall propose costs involved with the upgrade of Building 225, Explosives Machining Facility. The upgrade shall include the following items. NOTE: Building 225 must remain in operation during construction. Additionally, due to the nature of the work inside Building 225, construction on the facility will be intermittent and cannot be completed during certain operations. No more than two continuous weeks of construction can be completed at any given time. The contractor shall account for this in the

proposal. Any required outages for Building 225 must be coordinated with the Contracting Officer at least 7 days in advance, and must be less than 8 hours in duration. Protection for occupants shall include access to the building and safety during demolition. The following dimensions and details of Building 225 are provided for information and assistance in preparing the contractor's proposal:

Pink Water Room (Attached to Building 225)

Walls are approximately 9' high; 12' high at gable ends
Structure is approximately 20' wide by 20' deep
Structure has three exterior walls; rear wall is attached to Building 225
Perimeter footage is approximately 60'
Two windows on the north wall, approximately 29" wide by 48" high, currently covered with plywood.
One set exterior doors, double wide, each 49" wide by 84" high
No gutters or downspouts

Building 225, Motor Room

Walls approximately 12' high; 18' high at gable ends
Structure is approximately 38' wide and 31' deep
Linear footage is approximately 138'
Four windows, one located on north wall, one on east wall and two on south wall, double hung, approximately 43" wide by 61" high
Exterior doors, double wide, 3 units, approximately 42" wide by 77" high; two located on east wall, one on north wall, which exits into screened walkway
Gutter located on east wall, approximately 38' long with two 12' downspouts

Walkway With Screens and Electric Panels

Note: This walkway is adjacent to the Motor Room and was built off of the north wall
Approximately 8' wide by 36' long
Height, approximately 7' at the electric panels, 10' on opposite wall
Exterior doors, double wide, approximately 5' wide by 7' high on east wall

Building 225, Exterior Wall Between the Pink Water Structure and the Motor Room/Walkway Structure

Approximately 43' long by 10' high
Three windows, each approximately 29" wide by 48" high; no glass exists in the openings, screens are in place

Building 225, Exterior Wall from Motor Room to End of Building

Approximately 95' long by 10' high

Four windows, each approximately 29" wide by 48" high; no glass exists in the openings, screens are in place

2 Exterior doors, double wide, approximately 6' wide by 7' high. There are no gutters on Building 225

Miscellaneous

The roofs over the motor room and pink water tank are asphalt 3-tab shingles.

Building 224, the Control Room, is a poured concrete structure in good condition.

The blast (bomb) wall is between Buildings 221 and 224. Building 221 shall be demolished by others prior to initiation of this project.

4.4.4.1 Asbestos-containing Materials (ACM) and Lead-based Paint (LBP)

The contractor shall conduct ACM and LBP surveys, abatement and disposal. All surveys, abatement and disposal shall be in accordance with UFGS Specification 13280, ASBESTOS ABATEMENT and 13283, REMOVAL/CONTROL AND DISPOSAL OF PAINT WITH LEAD. Disposal, if necessary, shall be done by the contractor in accordance with local and State laws and regulations in an approved landfill. No known ACM or LBP surveys exist for the facility. The contractor shall provide a cost for conducting the required surveys and an assumed quantity of asbestos to be abated. The contractor shall assume that the substrate and insulation contain asbestos, and that pipes are insulated with ACM. Changes in the assumed quantities that are due to actual conditions shall be immediately brought to the attention of the Contracting Officer and a modification to the contract shall be made to adjust significant differences. The contractor shall assume that no lead-based paint requires abatement. If survey results differ from this assumption, the contractor shall immediately bring this information to the attention of the Contracting Officer for determination of further action.

4.4.4.2 Demolition

The contractor shall be responsible for all required demolition to the existing facility, to include, but not be limited to, removal of existing siding, substrate, insulation, doors, windows, gutters, and downspouts. Proper disposal of all materials shall be the responsibility of the contractor. NOTE: Explosive wooden barriers shall remain in place.

4.4.4.3 EIFS

Building 225 shall have an exterior insulation finish system (EIFS) applied to all exterior surfaces that are visible from the adjacent road (3 sides). All existing penetrations, surface applied components, etc, shall be removed and replaced as necessary to allow application of EIFS. The exterior siding, sheathing and wall insulation shall be removed and discarded. The EIFS shall comply with UFGS Specification 07240, EXTERIOR INSULATION AND FINISH SYSTEM. System shall be PM Class high-impact resistant, medium finish, color as allowed in the Picatinny Arsenal Installation Design Guide. EIFS shall be a job-fabricated exterior wall covering consisting of all required sheathing, insulation board, reinforcing fabric, base coat,

finish coat, adhesive and mechanical fasteners, as applicable, to match the other components of this project. The system shall comply with paragraph 4.3.15.2.3 above.

4.4.4.4 Doors and windows

All exterior doors and windows, including trim, flashing, drips, insect screens, etc., shall be removed and replaced using products and methods in compliance with paragraph 4.3.15.4, including subparagraphs, above, as applicable.

4.4.4.5 Enclosed Covered Walkway

As part of this option, the contractor shall provide an enclosed covered walkway from Building 225 to the new facility, excluding any road crossings. This covered walkway shall utilize materials compatible with and similar to the other walkways required in this project, but shall not be required to be climate controlled in any way. The enclosure shall extend from the entrance of Building 225 to the entrance of the nearest component of the new facility. Egress doors as required will be installed. The covered walkway shall terminate with an open end at each roadway. The covered walkway from building 221 to Building 225 will be demolished by others prior to initiation of this project. The covered walkway between Buildings 224 and 225 will remain.

4.4.4.6 Other

All other appropriate trim, including but not limited to, rain gutters, downspouts, roof flashing at edges, vents, conduit, supports, fasteners, building numbers, lighting fixtures, wiring, and electrical boxes, shall be removed and replaced, to allow installation of EFIS system, doors and windows.

Section 01010, Part 5: Structural Design

The following Part 5 replaces the existing Part 5 in its entirety.

5.1 DESCRIPTION

The structural design criteria shall be used for structural loading, design, and installation. The following criteria shall be used in conjunction with the technical specifications and references. The structural work consists of design and of construction but not necessarily limited to the following items

Building foundations

Concrete floor slabs

Load bearing and non-load bearing masonry walls

Load bearing reinforced concrete walls

Non-load bearing stud walls

Vertical framing members

Horizontal and truss framing members, including roof connection details

Expansion, construction, and contraction joints.

- i. Attachment provisions for architectural, mechanical, and electrical elements.
- j. Explosive safety

5.2 Specifications

The structural-related specifications listed in Part 11 shall be developed by the Contractor for use in the design and construction documents of this project.

5.3 REFERENCES

Design and installation shall conform to the listed editions of the references listed below, unless otherwise indicated. Unless otherwise specified or noted hereinafter, all design methods and allowable stresses for the various structural materials shall be in accordance with unified facilities criteria, engineering and technical manuals, codes and specifications, and technical instructions which includes but is not limited to the following. Recommendations made in the codes, specifications, and industry standards in this paragraph are requirements of this RFP, unless specified otherwise in these RFP documents. DA Pamphlet 385-64 (Dec.1999), AMC-R 385-100 (Sep.1995), and DOD 6055.9-STD (Dec 2002) shall be followed.

5.3.1 Unified Facilities Criteria (UFC)

UFC 3-310-01 Load Assumptions for Buildings (June 2000)

5.3.2 Technical Instructions (TI)

TI 809-02 Structural Design Criteria for Buildings (Sep. 1999)

TI 809-04 Seismic Design for Buildings (Dec. 1998)

TI 809-05 Seismic Evaluation Rehabilitation for Buildings (Nov. 1999)

TI 809-07 Design of Load Bearing Cold-Formed Steel Systems and Masonry Veneer/Steel Stud Walls (Nov. 1998)

TI 809-26 Welding Guidance for Buildings (March 2000)

TI 809-27 (Former TM 5-809-12/Aug. 1987) Concrete Floor Slabs on Grade Subjected to Heavy Loads

TI 809-29 Structural Considerations for Metal Roofing (Aug. 1998)

TI 809-30 Metal Building Systems (Aug. 1998)

5.3.3 Technical Manuals (TM)

TM 5-809-3 Masonry Design for Buildings (Oct. 1992)

TM 5-809-29 Structural Considerations For Metal Roofing (Aug. 1998)

TM 5-1300 Structures to Resist the Effect of Accidental Explosions
(Nov.1990)

5.3.4 Codes and Specifications

All structural assemblies and structural materials shall be of a noncombustible nature. The exact type/classification of the building/building parts may be determined and submitted by the contractor after a code analysis.

General: International Building Code, 2003 Edition.

Structural Steel: Manual of Steel Construction by the American Institute of Steel Construction Inc., Load and Resistance Factor Design, Third Edition, 2001.

Concrete: Building Code Requirements for Structural Concrete by the American Concrete Institute, ACI 318-02 (Jan. 2002).

Welding: Structural Welding Code - Steel by the American Welding Society, AWS D1.1 (Jan. 2004) and D1.4 (Jan 1998).

Masonry: Building Code Requirements for Masonry Structures, ACI530-02 (May 2002)

Steel Joist and Deck: SJI Steel Joist Institute, SDI Steel Deck Institute (April 2001).

Loads: Minimum Design Loads for Buildings and Other Structures by the American Society of Civil Engineers, ASCE 7-02 (Dec. 2002).

Foundations shall be designed in accordance with recommendations of the Contractor-prepared Geotechnical Design Analysis.

AR 190-11, Physical Security of Arms, Ammunition, and Explosives where Necessary (Feb.1998).

5.3.5 Unified Facility Guide Specifications UFGS

UFGS 01452A Special Inspection for Seismic-Resisting Systems
(Nov. 1999)

UFGS 02300 Earthwork (Aug. 2003)

UFGS 03100A Structural Concrete Formwork(May 1998)

UFGS 03101A Formwork for Concrete (Sep. 2001)

UFGS 03150A Expansion Joints, Contraction Joints, and Water stops (Sep.2003)

UFGS 03200A Concrete Reinforcement (Sep. 1997)

UFGS 03300 Cast-In-Place Concrete (Nov. 2001)

UFGS 03330A Cast-In-Place Architectural Concrete (March 2002)

UFGS 03413A Precast Architectural Concrete (May 1998).

UFGS 03450 Plant-Precast Architectural Concrete (Sep. 1999).

UFGS 04200 Masonry (Sep. 2003)

UFGS 04810 Nonbearing Masonry Veneer/Steel Stud Walls (Dec. 2002)

UFGS 05090A Welding, Structural (Dec. 2003)

UFGS 05120 Structural Steel (Aug. 2003)

UFGS 05210A Steel Joist (Dec. 2002)

UFGS 05310 Steel Decks (Oct. 2003)

UFGS 05400 Cold-Formed Metal Framing (Oct.2003)

UFGS 05500A Miscellaneous Metal (Jan. 2002)

UFGS 09965N Metallic Type Conductive/Spark Resistance Concrete Floor Finish (Aug. 2001)

UFGS 13080 Seismic Protection for Miscellaneous Equipment (Sep.2003)

UFGS 13120 Pre-engineered Metal Buildings (Oct. 2003)

UFGS 13121 Metal Building Systems (Minor Requirements) (Oct. 2003)

UFGS 13420A Self-Acting Blast Valves (Nov. 1997)

UFGS 14630A Overhead Electric Crane (Nov. 2003)

UFGS 15070A Seismic Protection for Mechanical Equipment (Jan.2002)

UFGS 16070A Seismic Protection for Electrical Equipment (April 1999)

5.4 DESIGN LOADS

Design loads shall be included in the structural notes on the contract drawings.

- a. Dead loads shall be calculated as required.
- b. Live loads shall be in accordance with ASCE 7-02 unless noted otherwise, and as follows:

Processing and machining bays - 150 lb/sq. ft. or concentrated equipment loads as directed in the Room By Room description, see Attachment A. Forklift traffic shall be allowed into all machining bays, processing bays and in the interior and exterior covered walkways (excluding the walkway to the satellite storage magazine) as well as in the loading dock area. The live load resulting from the forklift traffic shall match the maximum capacity plus the dead load of the preferred model HYSTER Electric Lift Truck Model E60XN-33 (See AttachmentX)

- c. Roof snow load shall be in accordance with ASCE 7-02 unless noted otherwise.

Wind Pressures: American Society of Civil Engineers, ASCE 7-02;
wind speed 105 miles/h; Exposure C; Importance Factor II

Seismic Loads in accordance with TI 809-04 with Seismic Use Group:
I; Performance Level: LS(1); Ground Motion: 2/3 MCE(A); and Performance Objective: 1A.
Seismic parameters for UFGS 13080, UFGS 15070A, and UFGS 16070A shall be calculated in accordance with TI 809-04.

5.5 GENERAL DESIGN CRITERIA

5.5.1 Building/Buildings

The building/buildings shall be designed, fabricated, and erected in accordance with the requirements of Unified Facilities Guide Specifications (UFGS) and drawings. The Machining and Processing area(s) and explosive storage facilities shall also conform to the requirements of TM 5-1300, DA Pam 385-64, AMC-R 385-100, AR 190-11, DoD 6055.9-STD, and all applicable references.

5.5.2 Base Plate Bearing

Base plates shall be shimmed only with non-shrink grout.

5.5.3 Welds

In the Machining and Processing area and explosive storage facilities all exposed welds shall be continuous, ground smooth, and free of all pits and cracks. The finish shall be a No. 4 dairy polish on the interior surfaces (180 grit or better)

5.6 CONCRETE DESIGN

5.6.1 Structural Concrete

All structural concrete shall conform to UFGS 03300. Yet, it is the contractor's decision to use precast or semi-pre-cast concrete components in accordance with UFGS 03450 and TM 5-1300. All foundation walls, footings, bay division walls, machining/processing roof units, enclosed walkway slabs with forklift traffic, and floor slabs shall be reinforced concrete unless noted otherwise. The minimum concrete strength shall be 4000 psi, except for special flooring as referenced in paragraph 5.8 "SLABS ON GRADE".

Contraction cavities, rock pockets or similar irregularities of the finished concrete surface texture shall be prevented.

5.6.2 Formwork

Formwork shall conform to UFGS 03100A Structural Concrete Formwork.

The formwork castings shall perform in such a manner to avoid any telegraphing through or buckling on the untreated concrete surface.

5.6.3 Expansion Joints, Contraction Joints, and Water stops

Expansion Joints, Contraction Joints, and Water stops shall conform to UFGS 03150A.

5.6.4 Maximum Expansion Joint Spacing

Maximum expansion joint spacing shall be 200 feet.

5.6.5 Reinforcing

Reinforcing shall conform to UFGS 03200A Concrete Reinforcement. Reinforcing shall be Grade 60. Indicate grade on the contract drawings in the structural notes.

5.6.6 Reentrant Corners

Reentrant corners in slabs shall be reinforced with a minimum of two #5 bars, 5 feet long, placed diagonal to the corner, except in blast areas. Additional reinforcement at openings and corners in blast areas shall be shown in especial details in structural drawings.

5.7 FOUNDATION DESIGN

The building foundations shall be designed to support all combinations of live, dead, seismic, wind, earth, and snow loads from the structure. Preliminary geotechnical sub-surface investigation has been performed for this project; see PART 3 of this SECTION. The contractor shall employ a qualified professional geotechnical engineering consultant to provide independent verification of the preliminary investigation results and recommendations and to make final design recommendations for building foundations. Foundation design shall be based on the provisions of this verification and any Contractor-performed investigations.

The footing depth from the bottom of footing to outside finish grade shall be in accordance to UFC 3-310-01, or as specified in Paragraph 3.6 of this SECTION, whichever is deeper.

Maximum allowable soil bearing pressure shall be determined by the Contractor during design. It shall be added after completion of the Geotechnical analysis and report.

c. Minimum width of footing shall be 18 inches.

Allowable soil bearing pressure and minimum footing depth shall be included in the structural notes on the contract drawings.

5.8 SLABS ON GRADE

Slabs on grade shall be designed for the loads provided above. Minimum slab thickness for all facilities shall be 4 inches unless required otherwise by TM 5-1300, DA Pam 385-64, and AMC-R 385-100. Minimum slab thickness in the machining, processing area as well as areas with expected forklift traffic shall be a minimum of 6 inches unless required otherwise by the applicable standards. Floor slabs subject to heavy loads and forklift traffic shall also be designed in accordance to TI-809-27 (former TM 5-809-12).

Slabs on grade shall be placed over a polyethylene vapor barrier and 6 inches thick capillary water barrier.

No column loads shall be transferred to the slabs on grade.

Shrinkage reinforcement shall be located 2.0 inches from the top of the slab. The percentage of steel shall not be less than 0.15 percent.

Sub floors, finished flooring, and work surfaces shall not wrinkle or buckle.

Coating or sealing material shall sustain decontaminate with high water/steam cleaners.

Exposed nails, screws or bolts in the work surfaces shall be avoided.

Floors, floor coverings, and floor treatments shall be noncombustible and anti-slip coated.

In all machining shops/process rooms/over night explosive storage cage/explosive storage magazines as well as the entire interior flooring area of the machining area the floor shall be designed as conductive floors in accordance with UFGS 09965N to prevent the source of an accidental ignition. Also the minimum structural concrete strength shall be 5000 psi as required by UFGS 09965N. (Note: The conductivity of the floor slab includes the reentrant wall corners.)

5.9 LOAD-BEARING MASONRY STRUCTURE

Load-bearing masonry structure shall be designed and constructed in accordance with the provisions of the International Building Code, 2003 Edition. Load-bearing masonry structure shall be designed to support all combinations of live, dead, seismic, snow, and wind loads and constructed in accordance with specification UFGS 04200.

5.10 Building Exteriors

Walls, floors and roof coverings of buildings regardless of function shall be noncombustible.

While it is recognized that wood may be the material of choice in a few applications, in general it is considered a combustible material, whether treated or untreated for fire resistance, and should not be used in construction of this facility.

The building/buildings should be without basements and not more than one story high.

Any internal explosion shock wave shall be vented towards the mountainside. The walls directed to the mountainside of the building areas where energetic material is stored or handled shall function as a blow-out-wall and shall be of none load bearing character.

The blow-out-wall should appear to present an obstacle to intrusion into the building yet be lightly constructed to provide maximum venting for an internal explosion.

Construction method, material, and/or separation distances used shall be in accordance with DoD 6055.9-STD and prevent overpressure exciting more than 2psi in any control room, in the administrative offices or in any break rooms.

Blast protection to the exterior surrounding area of the Explosive Research and Development Loading Facility, will be provided by separation distances,(i.e. Q-D arches) or by protective

structures, (i.e. barricades) The Q-D distances are defined in DOD 6055.9-STD and protective structures can be designed in accordance with TM 5-1300.

The possible progression of the shock waves shall be in alignment with the safety plan. Picatinny's safety officer of shall authorize the contractors design approach.

5.11 Building Interiors

Suspended ceiling shall not be used in machining or processing areas or where explosives are handled.

For rooms without concrete roofs the recommended practice is to install insulation and covering directly on the underside of the roof structure itself. Concrete roof slabs shall have an environmental cover above with insulation installed.

5.12 CONTAMINATED WASTEWATER COLLECTION TANK

The chemical compounds of the wastewater are listed in Attachment J. Although it may not be regulated at this time, to avoid future restrictions the wastewater shall be handled as hazardous waste with the waste code K047 in accordance with the New Jersey Department of Environmental Protection (NJDEP)

The contaminated wastewater collection tank may be situated below grade, to permit gravity drainage, with an adequate capacity to the maximum operational need according to the mechanical requirements. A secondary concrete containment shall be provided. The primary containment tank and secondary containment assembly (concrete vault) shall be designed and constructed in accordance with the New Jersey Administrative Code Title 7, Chapter 1E (N.J.A.C 7:1E), Discharge Prevention, Containment and Countermeasures/Discharge Cleanup and Removal (DPCC/DCR) regulations. The concrete vault shall be impermeable to passage or chemical attack by the wastewater under the conditions of storage privileges. Adequate space shall be provided to physically inspect the entire exterior of the primary tank.

See mechanical section "Contaminated Wastewater Collection System" for further requirements.

END OF PART 5

Section 01010, Part 7, paragraph 7.3.2.4: Transformer Application Guide

In the second sentence remove NON-CSP (Contained Protection) and replace with the following: Facility service transformer will be provided by S.R.E.C. All other transformers provided by Contractor for facility are required to be dry-type transformers.

Section 01010, Part 7, paragraph 7.3.14.6.1: General Alarm

In the second sentence of subparagraph (f) replace 7.3.15 with 7.3.14 .

Section 01010, Part 10: Explosive Safety Design

The following Part 10 replaces the existing Part 10 in its entirety.

10.1 EXPLOSIVES SAFETY DESIGN

All explosive safety design shall meet the requirements given in AR 385-64, DA Pam 385-64 and AMC-R 385-100. AR 385-64, U.S. Army Explosives Safety Program and DA PAM 385-64, Ammunition and Explosives Safety Standards (AR/DA PAM 385-64) implement Department of Defense (DOD) ammunition and explosives safety standards (DoD 6055.9-STD). AMC-R 385-100 prescribes additional industrial and explosives safety standards for AMC operations and facilities. In cases where there is a conflict between standards, the more restrictive standard shall apply. See AR 385-10, The Army Safety Program for additional guidance regarding conflicts in standards.

10.2 DESIGN OF BLAST RESISTANT BUILDING COMPONENTS

All structural building assemblies and components requiring blast resistant performance properties shall be prepared and designed by a licensed structural engineer having a minimum of five years experience designing structures capable of resisting dynamic pressure and impulse loads equivalent or greater than the blast pressure and impulse loads identified for this project. Experienced in all building components requiring design for blast effects shall be designed and detailed in accordance with the requirements given in Army TM 5-1300 "Structures to Resist the Effect of Accidental Explosions". All newly constructed walls designated, as bay dividing walls shall as a minimum meet the requirements given in 10.3 below.

10.3 SUBSTANTIAL DIVIDING WALL (SDW) REQUIREMENTS

SDW is a reinforced concrete wall surrounding areas where high energetic material is stored, tested, handled and/or processed. SDW shall have the following minimum characteristics:

- (1) Minimum thickness of 12 inches reinforced concrete,
- (2) Steel reinforcing bars (rebar) on both faces of the wall,
- (3) minimum #4 (1/2-inch in diameter) vertical and horizontal rebar,
- (4) Vertical and horizontal rebar spaced not more than 12 inches apart,
- (5) Position of bars on one face staggered with the bars on the opposite face,
- (6) Two inches of concrete cover over the reinforcing bars, and
- (7) Minimum concrete compressive strength of 4000 pounds per square inch (psi).
- (8) Walls shall not contain any openings. Penetrations for pipes may be installed but shall be mounted and secured into the structure to prevent weakening the pressure containment capability of the dividing walls.

(Note: The main steel shall be continuous into supports. The SDW shall be supported at the floor and at any adjacent SDW.)

10.4 UNINTENTIONAL INITIATION OF EXPLOSIVES

All structural members shall be designed and detailed in accordance with the requirements given in Army TM 5-1300 "Structures to Resist the Effect of Accidental Explosions".

Any room(s) in the facility involving the machining or processing of explosives, shall be designed to vent the explosive effects without simultaneous detonation by blast wave and/or by airborne fragments to other rooms.

The use of Substantial Dividing Walls (SDW) is not prohibited when they provide required level of protection in accordance with the Site Safety Plan, DoD 6055.9-STD, TM 5-1300 or all other applicable references

If a reinforced concrete roof slab is used as the containment solution to meet the Site Safety Plan, DoD 6055.9-STD, TM 5-1300 or any other applicable requirement, it may be integrated into the main building structure or be separate from the main building roofing assembly.

Air blast loads to be used for this design shall be computed using a method that accurately predicts the air blast environment from internal explosions. Predictions shall account for multiple shock wave reflections with gas pressure buildup and venting.

10.5 HIGH ENERGETIC MATERIAL

The energetic material used in this facility is classified as Class 1, Hazard Division 1 explosives (HD 1.1).

The total weight of high energetic material in a single bay shall conform to the requirements of the operational procedure given in the Room By Room description, see Attachment A. Where explosive weights are given or referenced in this RFP, they shall be equal to the listed weight in TNT or the equivalent explosive weight of alternative energetic materials.

The Room-By-Room descriptions state the allowable maximum explosive weight limits for the individual functional areas. In the storage magazine a maximum of 400lbs TNT, or equivalent HD 1.1d explosives will be stored in each of the four storage bays at any given time.

END OF PART 10

Contractor Questions with Government Responses for Informational Purposes Only

1. Contractor question: Generator: Is Propane tank on west end of site is use?

Government response: Yes. However the propane tank and generator can be relocated, by the Government, if required to accommodate the new facilities.

2. Contractor question: Bldgs 221, 224 &225 remain in use throughout the project?

Government response: Buildings 224 and 225 will remain in use during the project. See amendment 0005 to this solicitation.

3. Contractor question: Wood explosion barriers to remain?

Government response: Wooden explosion barriers will remain in place during construction.

Offerors are reminded that the project site, except for the renovation of the exterior vertical surface of building 225, is all to the Southwest of building 225.

4. Contractor question: Idle poles to be removed?

Government response: The electrical distribution system at Picatinny ARDEC has been privatized and is the responsibility of Sussex Rural Electric Cooperative [S.R.E.C.]. The contractor is required to coordinate all electrical pole requirements with the Contracting Officer and S.R.E.C. and is not authorized to either install or remove electrical poles.

5. Contractor question: All underground utilities are marked out?

Government response: No, but will be completed prior to construction activities commencing.

6. Contractor question: Boring tests and soil analysis current?

Government response: Supplemental report included in original solicitation and amendment 0001. Original geotechnical report included within amendment 0003 to this solicitation.

7. Contractor question: Phone numbers of closest medical treatment facility?

Government response: Saint Claire's Hospital Dover
400 West Blackwell Street
Dover, NJ 07801
General Information: 973-989-3000

8. Contractor question: Is the soil contaminated? If so who is responsible for clean up? If the contractor is responsible provide type and quantity of contamination? What are the environmental requirements? Is the soil to be transported to a facility storage site? Can the work be included in an allowance amount?

Government response: To the best of our knowledge, for industrial purposes, the site is not contaminated. If contaminated soil is found follow Attachment M (Standing Operating Procedures for Soil Management Procedures during Construction Activities).

9. Contractor question: Can we propose a unit price for rock removal?

Government response: See amendment 0005 to this solicitation. Contract line item, requesting unit price for rock removal, will be added to the base bid.

10. Contractor question: Please clarify what is high what is high impact EIFS?

Government response: See specification 07240, select high impact resistance as described.

11. Contractor question: Who will remove miscellaneous electrical on exterior of bldg 225?

Government response: See amendment 0005 to this solicitation. All work required to renovate the exterior of building 225 will be the contractor's responsibility.

12. Contractor question: Are gutters, roof, windows etc on Bldg 225 part of option?

Government response: See amendment 0005 to this solicitation. Roof replacement will not be a part of this project, though all gutters, doors and windows, as well as other components of the exterior of the building, will be removed and replaced.

13. Contractor question: Is covered walkway part of the exterior renovation option?

Government response: See amendment 0005 to this solicitation. An enclosed covered walkway is required as part of this option.

14. Contractor question: Is there any work on 5th Avenue and the rear road?

Government response: No

15. Contractor question: Can the buildings encroach on to the rear street?

Government response: Yes, the new buildings can encroach on the rear street (Phipps Road).

16. Contractor question: Who is responsible for foundation removal in the demolition buildings?

Government response: The Government

17. Contractor question: Could you please extend the bid submission date and question submission date?

Government response: The revised solicitation ending date is August 3, 2004 at 2:00:00 pm. The question submission date will not be extended.

18. Contractor question: Building Layouts as per RFP?

Government response: Building layouts are located in attachment A of the solicitation as provided in amendment 0003 to this solicitation.

19. Contractor question: Building 225 as-builts? as per RFP

Government response: As-built drawings of any existing building are not available.

20. Contractor question: CAD Files of building layouts and building 225 as-builts?

Government response: All available drawing files, including building layouts, have been provided in .DGN format (Microstation) and included within amendment 0004 to this solicitation.

21. Contractor question: CAD Files of civil drawings? In RFP

Government response: All available drawing files, including civil drawings, have been provided in .DGN format (Microstation) and included within amendment 0004 to this solicitation.

22. Contractor question: DTM files of civil drawings?

Government response: DTM files of civil drawings not available.

23. Contractor question: Is this a contaminated site?

Government response: To the best of our knowledge, for industrial purposes, the site is not contaminated. If contaminated soil is found follow Attachment M (Standing Operating Procedures for Soil Management Procedures during Construction Activities).

24. Contractor question: If it is, who is responsible for the clean up?

Government response: Please refer to solicitation appendix containing the “Standing Operating Procedures for Soil Management Procedures during Construction Activities”.

25. Contractor question: Who is responsible for foundation removal?

Government response: Buildings 215, 216, and 221 will be demolished by others and that scope of work will include foundation removal.

26. Contractor question: Do we have to maintain Phipps Road or can new bldg encroach on it?

Government response: New buildings can encroach on Phipps Road.

27. Contractor question: If there are no layouts provided, the rooms total 21,000 Sq Ft. The RFP says the project is 28,000 Sq Ft. We know some support rooms may not be included – what Sq FT does the G.C. Bid on?

Government response: See amendment 0005 to this solicitation. Project shall include construction of at least 21,000 Square Feet though not exceed 28,000 Square Feet.

28. Contractor question: What is the extent of renovation of 225 rotting door & window frames, wooden boxes attached enclosing equipment, one wall is insect screws?

Government response: See Amendment 0005 to this solicitation. All doors and windows of Building 225 are to be removed and replaced, including frames, trim and associated insect screens.

29. Contractor question: How do we access secured Web Sites, Referenced in Bid Documents?

Government response: The Government is unaware that any of the referenced documents are unavailable to the public. Per Paragraph 1.2 of Section 1010 of this RFP, the Contractor is responsible for obtaining any documents not attached as part of this RFP but referenced as criteria for the project. Government publications can be obtained through the following website: <http://www.hnd.usace.army.mil/techinfo> . NFPA codes can be obtained through <http://www.nfpa.org> , or many online vendors. See also Paragraph 4.2 of Section 1010 of this RFP for additional web links to criteria.

30. Contractor question: Can we make additional site visits?

Government response: No.

31. Contractor question: Is there any hazardous material survey for Bldg 225?

Government response: No.

32. Contractor question: Could we get the Drawings in the RFP in AutoCad or Microstation?

Government response: All available drawing files have been provided in .DGN format (Microstation) and included within amendment 0004 to this solicitation.

33. Contractor question: Can we visit the site (with a camera) at another date?

Government response: No.

34. Contractor question: Last year a similar design build project in Picatinny Arsenal had an estimated budget of about \$13 million. All the bids in the competitive range were more than 50% over the estimated budget. So how realistic is the proposed budget range of \$5 to 7 million?

Government Response: The government is confident of the budget range of \$5-7M for this project.

35. Contractor question: Will the job be awarded if the estimated cost is over 7 Million?

Government response: At this time, the government cannot answer this question.

36. Contractor question: Progress payment 52.232 – 16 (a) please provide information to how the 80% of contract total is paid. This means a retain age of 20% is holding back.

Government response: Progress Payments are made monthly in accordance with approved scheduled work. The solicitation will be amended to include DFARS Clause 252.232-7004, which provides for payment of ninety percent of the total monthly invoice and ten percent withholding.

37. Contractor question: (4) 8.0 Liquidation, please explain.

Government response: Liquidation under the Progress Payment Clause, as modified by DFARS 252-232-7004 refers to the fact that all progress payments will be reduced, or liquidated by 10%.

38. Contractor question: We have a problem opening up the drawings.

Government response: Please email Scott Helmer, identifying specific problems encountered. In addition, all available drawing files have been provided in .DGN format (Microstation) and included within amendment 0004 to this solicitation.

39. Contractor question: Please provide the voltages, amps,watts, etc. so we can estimate the size of the electrical service that will be needed for the specialized equipment (ovens, mixers, fans etc) to be housed in the building.

Government response: Electrical requirements for processing equipment are covered by Appendix A of this RFP.

40. Contractor question: We hereby request for an extension to the Bids Due Date of July 23rd, 2004 in order to facilitate a better coordination of all the design entities involved in our team.

Government response: The revised solicitation ending date is August 3, 2004 at 2:00:00 pm.

41. Contractor question: Also please advise location of the 'Project Fact Sheets' & Contractors Past Performance Questionnaire' mentioned in section 00120.

Government response: Project Fact Sheets and Contractor Past performance Questionnaire was included within amendment 0003 to this solicitation.

42. Contractor question: Can the Fiber Optic run from Bldg 323D to the ERDLF be run via aerial cable on poles rather than underground through conduit?

Government response: No.

43. Contractor question: It looks like many of the Category 6 wiring runs to analog phones will be over the 295 ft max for Cat 6 certification. Can we use Category 3 wiring for analog phones?

Government response: No. Contractor is to design system per EIA/TIA Standards, which includes providing and laying out necessary and sufficient equipment to meet those standards.

44. Contractor question: Hard copies of all Commercial Codes and Design Manuals listed as follows are needed: Refer to Section 01010 for Design Requirements, Part 7 Electrical Design:

Paragraph 7.1.3:

- US Army Corps of Engineers Standard Detail 40-06-04
- TM 5-811-1, 2, 3, 6, & 14
- TI 811-16 Lighting Design 03 August 1998
- UFC 3 –600-01 and UFC 3 –520-01
- TI 811-12 Utility Monitoring and Control Systems
- ER-1110-345-700
- DA PAM 385-64
- AMC-R-385-100
- NFPA 30 Flammable and Combustible Liquids Code
- NANP-1110-1-1

Paragraph 7.1.4, 2nd line:

- UFGS Guide Specifications
- ER-111-345-700 Specifications

Paragraph 7.2.3.1 last line:

- UFGS 16070A

Paragraph 7.3.1, 2nd line:

- DA PAM 385-64
- AMC-R 385-100

Paragraph 7.3.2.1, 5th line:

- ETL 94-2

Paragraph 7.3.2.4, 1st line:

- ETL 1110-3-412

Paragraph 7.3.11.1, 2nd line:

- Section 01011A

Paragraph 7.3.11, 2nd line:

- NFPA 99, UL 779
- UFGS 09670A

Paragraph 7.3.14.3, 5th line:

- Section 01011A
- Section 01011B

Section 01010 – 134 Paragraph 11.2.6 Electrical:

13100A, 13850A, 16070A, 16264A, 16370A, 16375A, 16403A, 16410A, 16415A, 6528A & 16665A

Government response: Per Paragraph 1.2 of Section 1010 of this RFP, the Contractor is responsible for obtaining any documents not attached as part of this RFP but referenced as criteria for the project. Government publications can be obtained through the following website: <http://www.hnd.usace.army.mil/techinfo> . NFPA codes can be obtained through <http://www.nfpa.org> , or many online vendors. See also Paragraph 4.2 of Section 1010 of this RFP for additional web links to criteria.

45. Contractor question: Provide clarifications for the following terminology: Paragraph 7.2.1, 2nd paragraph 3rd line: Who provides pad mounted exterior transformer? It appears that it would be by S.R.E.C.

Government response: Yes, transformer is provided and installed by S.R.E.C.

46. Contractor question: What is counterpoise?

Government response: An underground grounding system around transformer installation per S.R.E.C. requirements. Contractor is to coordinate with S.R.E.C.

47. Contractor question: Requirements regarding the installation of the first (TEN) feet of underground conduits are not clear.

Government response: This comment is not a question for which the government can provide an answer.

48. Contractor question: Paragraph 7.2.3.1, 2nd line: What are Conduit windows?

Government response: Rectangular openings in slab for underground entrance of conduits.

49. Contractor question: Paragraph 7.2.6 4th line: What are Shoe-box type fixtures?

Government response: Rectangular or square box shaped cut-off light fixtures available from many lighting manufacturers. (Hubbell, Cooper, or Metrolux for example.)

50. Contractor question: Paragraph 7.3.2.3, 3rd line: Future and spare equipment, is it the same load or additional load?

Government response: "Future and spare" equipment refers to the 25% spare load requirement in the next sentence of this paragraph.

51. Contractor question: Paragraph 7.3.2.4, 3rd line: What is NON-CSP?

Government response: See amendment 0005 to this solicitation. Facility service transformer will be provided by S.R.E.C. All other transformers provided by Contractor for facility are required to be dry-type transformers.

52. Contractor question: Paragraph 7.3.11.2, 1st line: What is Conductive flooring?

Government response: See paragraph 4.3.15.7, Flooring, of Section 01010 of this RFP for requirements.

53. Contractor question: Paragraph 7.7, 2nd line: Government equipment. Where they are listed? Are they same as listed in Chart # 1?

Government response: See Appendix A, all sheets, for references to Government equipment.

54. Contractor question: Paragraph 7.2.2.4, 2nd line: What is available Fault Current to be used as the basis for the design?

Government response: Contractor is to coordinate requirements with S.R.E.C.

55. Contractor question: Paragraph 7.2.2.12, 1st line: Confirm work is associated with only one pole. Need more information if it is more than one pole.

Government response: Contractor is to coordinate requirements with S.R.E.C.

56. Contractor question: Paragraph 7.3.2.2, 2nd last line: It states that “The final design shall insure that the system will have no ground loops for protection of the equipment”. It is not clear.

Government response: See criteria listed a beginning of paragraph for explanations of required ground system features.

57. Contractor question: Paragraph 7.3.2.4, 3rd line: What is NON-CSP (contained protection)?

Government response: See amendment 0005 to this solicitation. Facility service transformer will be provided by S.R.E.C. All other transformers provided by Contractor for facility are required to be dry-type transformers.

58. Contractor question: Paragraph 7.3.5: What is insulation type for medium voltage cables?

Government response: Contractor is to coordinate requirements with S.R.E.C.

59. Contractor question: Paragraph 7.3.11.3, 1st line: It states that “Ground Bars shall be provided as per criteria”. Where is the document for the criteria?

Government response: Documents are listed in paragraph 7.3.11.1 of this section.

60. Contractor question: Paragraph 7.3.12, 1st line: Is it stated correctly? It appears that there may be typo error.

Government response: Sentence is correct. It refers to the optional wiring method of protecting regular non-GFCI receptacles downstream from a GFCI receptacle, in lieu of providing all GFCI receptacles.

61. Contractor question: Paragraph 7.3.14, 2nd last line: It states that “No part of the fire suppression and alarm system shall be from a sole source supplier”. Confirm it is stated correctly.

Government response: Sentence is correct.

62. Contractor question: Paragraph 7.3.14.6.1f, 2nd line: It states that “See paragraph 7.3.15 for information on the remote annunciator”. Where is that paragraph?

Government response: See paragraph 7.3.14 for information on remote annunciator.

63. Contractor question: Paragraph 7.4, 3rd last line: It appears that sub vendor will provide lightning protection system. Confirm it.

Government response: The Government recognizes only one design build Contractor on this contract and that Contractor is responsible for meeting the requirements of the RFP.

64. Contractor question: When building plot plans and floor plans will be available?

Government response: Site layout and building floor plans provided in amendment 0003 to this solicitation.

65. Contractor question: When electrical requirements for HVAC, processing and Government equipment will be available? Electrical requirements shall include with horsepower, voltage, single or three phase and ampere ratings. Identify the equipment if it supported by emergency power.

Government response: Contractor is responsible for HVAC design of building per RFP requirements. Electrical requirements for processing and Government equipment, as well as emergency power, are covered by Appendix A of this RFP.

66. Contractor question: Addendum 1 Section 00120 Factor 3. (i)- This is almost impossible, they will not do this.

Government response: No response is provided as no question was asked.

67. Contractor response: Factor 3. (i)- In one section of the specs it indicates 3 questionnaires, then it says 5 questionnaires, please clarify which is the correct amount.

Government Response: Offerors may submit no more than five (5) questionnaires. The minimum acceptable number of questionnaires is determined by Contractor's Past Performance relative to Design Build projects. The requirements for contractors with Design Build Past Performance can be found in Factor 3(iv)a. The requirements for contractors without Design Build Past Performance can be found in Factor 3(iv)b.

68. Contractor question: Factor 3. (i)- The 5 questionnaires are they part of the bid submission or are they to be submitted separately from the bid?

Government response: In accord with Factor 3(i) the contractor's past clients shall fax completed questionnaires to the Corps of Engineers. To clarify which documents should be included with the proposal submission, contractors should pay special attention to Factor 3(ii) and (iii).

69. Contractor question: Factor 3.(ii)- "Past Performance Information", is the same form sent to past Clients?

Government response: Yes.

70. Contractor question: Factor 3.(iii)- We can send the forms to former clients but it would be impossible to get them to comply, especially in such a short time frame, then what should we do?

Government response: It is the offeror's responsibility to ensure compliance with Request for Proposal requirements. The date for receipt of proposals has been extended to 03 August 2004 at 02:00:00 Eastern Standard Time.

71. Contractor question: Factor 4.a- Do we have to provide a teaming agreement for this solicitation with the subcontractors and design team with this offer or just provide the qualifications of major team members, design professionals, major subcontractors such as mechanical and electrical, since we do not need a teaming agreement but just a standard contract.

Government response: No, unless you have an existing teaming agreement.

72. Contractor question: Section 52.232-16- Progress payment (a)-will 20% be deducted as retainage?

Government response: Payments will be made on 90% of the invoiced amount.

73. Contractor question: Section 00800 9.4.0- what kind of soil manifest documentation is to be provided? When we excavate rock will this require a soil manifest and if so this process is going on

everyday from start to completion of all excavation, will the government approve one soil/rock manifest until completion?

Government response: Please refer to solicitation appendix containing the “Standing Operating Procedures for Soil Management Procedures during Construction Activities”.

74. Contractor question: Section 9.6- Since from 4-1 to 11-15, no tree cutting is permitted, what if the start of construction is just about at this time and trees have to be cleared to start, will the government make special provisions or contract time will be extended with cost?

Government response: Contract time will not be extended with cost. However, if during the design process it is concurred that tree removal is required, special provisions may be made allowing specifically identified trees to be cut down between November 16 and March 31.

75. Contractor question: Section 00800 15.Y- The government requires that we provide NJDEPE form WAM-005. Please provide the copy of the format since DEPE cannot recognize this form.

Government response: See Amendment 0005 to this solicitation, a PDF file of form WQM-005 has been included.

76. Contractor question: Specification 01010 Paragraph 4.4.2.6- Exterior enclosed walkways. In this portion of the specs you request the exterior walls of the walkways shall be as translucent as possible meanwhile in the previous sections you call for a solid EIFS over the entire exterior of the walkway. Please provide the percentage of translucent light that the walkway should contain.

Government response: See Amendment 0005 to this solicitation. All enclosed covered walkways shall have translucent walls to the extent possible when considering loads (building and wind), aesthetics and material proposed. The RFP does not require solid EIFS walkways. It is intended that exterior surfaces of the walkways that are not translucent material shall be EIFS.

77. Contractor question: Specification 01010-50 Paragraph 4.4.4.1- Asbestos Containing Materials- Under this paragraph the government requires us to conduct ACM and LBP surveys abatement and disposal. Since we cannot identify at this junction, the amount of the abatement and disposal without conducting a survey we cannot be accurate enough or estimate the cost of the abatement. Therefore, the government must provide us with the quantity of abatement they're aware of or a set aside an amount for this particular operation. Please provide us with one of the two.

Government response: See Amendment 0005 to this solicitation. An assumed quantity of asbestos containing materials has been added to the RFP to allow contractors the ability to propose costs. Lead-based paint is assumed not to be of such a limit as to require abatement.

78. Contractor question: Specification 01010-51 Paragraph 4.4.4.3-EIFS-1) Since all of the exterior sheeting and siding will be removed from Building 225 and since we do not have the knowledge and access to the building please provide us the information whether on the interior side of the sheeting that is to be removed if there are any electrical or mechanical components that have to be removed prior to replacement. 2) As an attachment to Building 225, there is a covered walkway, will this be demolished or will there be total renovation of this walkway?

Government response: See Amendment 0005 to this solicitation. An estimate of the surface area of Building 225 and an approximation of the number of windows and doors has been provided.

79. Contractor question: Attachment L, Paragraph Soil Excavation Management of Excess Soil-1) Does the government know that any of the soils in the proposed construction area has any contamination? 2) If any contamination is found during construction, we will follow the guidelines but will this become a change order to the government? Please advise. 3) Under 6.11- the spec requires to replace the excavated soils back into the excavation at the same relative soil horizon as existed prior to excavation activities. It is impossible to perform the excavation under this requirement because every scoop of excavation would have to be catalogued, marked and identified. This would be a tremendous expense to the government. Please advise how to proceed or remove this requirement.

Government response: To the best of our knowledge, for industrial purposes, the site is not contaminated. If contaminated soil is found follow Attachment M (Standing Operating Procedures for Soil Management Procedures during Construction Activities). Should contamination be found later, whether it is a change order must be determined at that time based on specific facts.

80. Contractor question: If the buildings can encroach onto Phipps Rd, is it anticipated that this road will be terminated or truncated? Will it require turn-arounds or demolition /removal altogether?

Government response: Should the contractor chose to encroach on Phipps Road to construct the new facilities, there will be no requirement for installation of turn around areas or demolition/removal altogether. However, if Phipps Road is encroached, the bituminous asphalt must be saw cut with neat lines and blended into the site overall site design.

81. Contractor question: Is the Wetlands Delineation approved by DEP?

Government response: No.

82. Contractor question: Has the Resource value of the Wetlands been interpreted by DEP? If the Resource value is exceptional, this could increase the Wetlands Buffer to a setback beyond 50 feet- can this be ruled out? Also, has your Wetlands consultant ruled out the need for Wetlands Creation as possible Mitigation for encroachment?

Government response: No.

83. Contractor question: For permitting of Storm water discharge, does the Picatinny Arsenal Facility have a standing NJPDES overall site permit that would need to be modified?

Government response: No, there is no standing permit at Picatinny. A permit needs to be secured by the contractor.

84. Contractor question: What form of Local/Municipal approval(s) will be required? Will it be formal site plan review or just a courtesy review, or civil-engineering/technical review only, or does the Federal Government take a full exemption as per law?

Government response: Review of the soil erosion permit will be a formal review conducted by Morris County.

85. Contractor question: Will the D/B Contractor be obliged to produce drawings for the new Cable? As the planned location runs well beyond the buildings' site, could there be further Wetlands that would trigger the need for further delineations, DEP Interpretation and associated permitting?

Government response: Design build contractor is required to produce drawings for the new cable and no further wetlands delineation is expected.

86. Contractor question: What is scope of foundation construction inspection and certification?

Government response: The Contractor is responsible for Quality Control and shall establish and maintain an effective Quality Control system in compliance with the Contract Clause titled "Inspection of Construction" and as further discussed in Sections 01312 and 01451 of this solicitation. The Government is responsible for Quality Assurance.

87. Contractor question: What is scope of site/utility /drainage construction inspection and certification?

Government response: The Contractor is responsible for Quality Control and shall establish and maintain an effective Quality Control system in compliance with the Contract Clause titled "Inspection of Construction" and as further discussed in Sections 01312 and 01451 of this solicitation. The Government is responsible for Quality Assurance.

88. Contractor question: What kind of truck (geometry such as length, turning radius, and weight or # of axles) will use the site/project for supplies and/or loading? Will each building have separate loading area for supplies and deliveries, and also for garbage and recycling (fenced dumpster areas)?

Government response: Site development paragraph 2.4 of Division 01010 of the Request For Proposal discusses and provides parameters for materials and delivery vehicles that are expected to use the new delivery road/aprons. The administrative building and explosive storage structure do not require loading docks. Paragraph 2.4 also discusses dumpster areas.

89. Contractor question: Are there any reported functional or maintenance issues with the site Sanitary sewers that would require Inspection, Design, Repairs?

Government response: No.

90. Contractor question: Is it anticipated that the Buildings can be constructed without relocating the Sanitary Sewer or other utilities?

Government response: It is anticipated that the new facilities can be constructed without relocation of existing sanitary sewer main line as well as main line/feed of other existing utilities.

91. Contractor question: Will, building 224, the covered walkway between buildings 221 & 225, the covered walkway between buildings 224 & 225, and the bomb wall between buildings 221 & 224, remain or be demolished? If they are being demolished, who is responsible for the demolition?

Government response: See Amendment 0005 to this solicitation. Building 221, with associated walkway, will be demolished by others prior to the start of this project. Building 224, with associated walkway, will remain. The "bomb wall" will remain, and will be provided with an EIFS covering as part of an option to the project.

92. Contractor question: RFP section 01010.1.2.5 states that as-built drawings for building 225 are provided. Following the site visit USACE stated that as-built drawings were not available. Considering that no more site visits are permitted, could you furnish us with the exterior dimensions of the building?

Government response: See Amendment 0005 to this solicitation.

93. Contractor question: RFP section 01010.4.3.15.2.3 states that exterior walls for enclosed walkways shall use EIFS, while section 01010.4.3.15.3.5 states that walkways shall be covered with a tan tinted transparent panel system. Please clarify.

Government response: See Amendment 0005 to this solicitation. Walkways shall have as much translucent material as can be allowed based on loading, aesthetics and material selection. All other exterior vertical surfaces shall be EIFS.

94. Contractor question: RFP section 01010.2.5 indicates that payment for rock excavation shall be in accordance with line items presented in the bid schedule. There are no line items for rock excavation in the bid schedule. Please clarify.

Government response: See amendment 0005 to this solicitation. Contract line item, requesting unit price for rock removal, will be added to the base bid.

95. Contractor question: RFP section 01010.2.11 states that the new fiber optic lines is to be connected from building 323 D on Reilly Road while RFP section 01010.2.15 states that it is to be connected from building 232 D. Please clarify.

Government response: See amendment 0005 to this solicitation. The correct reference is building 323D.

96. Contractor question: Please provide us with the locations of the monitoring wells (RFP section 01010.2.18) within the building limit line.

Government response: See civil and site drawings contained within the appendixes to this solicitation.

97. Contractor question: Is the existing external grounding system on building 225 to be replaced or to be removed and reattached after exterior renovation?

Government response: See amendment 0005 to this solicitation. The existing external grounding system for building 225 must remain. Furthermore, since building 225 will remain in operation during construction, the contractor may not disconnect the grounding system without prior coordination of the building user and must promptly reconnect upon completion of activities each day.

98. Contractor question: Is there any work required on the roofing for building 225?

Government response: See amendment 0005 to this solicitation. The limits of renovation activities to building 225 will not include the roof, though will include the gutter and leader system.

99. Contractor question: Is the leaking steam pipe near building 225 to be repaired?

Government response: See amendment 0005 to this solicitation. Repair and/or replacement of steam piping beyond the five-foot distance from the new facilities will be accomplished by others.

100. Contractor question: Does all HVAC equipments need to be shut down when the fire alarm is set off, or only those equipments providing air over 2000 cfm need to be shut off, as required by code?

Government response: Per paragraph 7.3.14.6.1e all HVAC systems shall be shutdown. For clarification, this would include all air handling equipment except fans used exclusively for exhaust.

101. Contractor question: The Magazine Building consists of four separate areas containing 400 pounds of explosive/hazardous material. Concrete exterior walls are required as per the chart provided, what about SDW interior walls? What is this hazardous material? Is the material classified as 1.1? Separation between buildings is based on unbarricaded intraline QD distance for 400 pounds of the material. Are there any security requirements for storage of this hazardous material at this site?

Government response: See amendment 0005 to this solicitation. In addition:

1. SDW are not prohibited (See Section 01010 / 10.4)
2. Explosive material is classified as Class 1 Hazardous Div. 1.1D (See Section 01010 / 10.5). Weights are identified as TNT equivalents.
3. See Section 01010 / 10.5
4. See Section 01010 / 5.10

102. Contractor question: The processing/machining building consists are multiple areas containing explosive/hazardous materials. Concrete exterior walls are required as per the chart provided, what about SDW interior walls? What is this hazardous material? Is the material classified as 1.1? Control rooms are provided. What operations/areas require remote control? What areas are controlled by each specific control room? Are the remote controlled operations hazardous or hands on?

Government response:

1. See Section 01010 / 5.10 and 10.4. Only the immediate enclosing structure of the identified machining and processing bays are required to be constructed of reinforced concrete. The exterior shell of the building structure itself shall meet the requirements mentioned in Section 01010 / 5.10 and 10.4
2. Explosive material is classified as Class 1 Hazardous Div. 1.1D (See Section 01010 / 10.5). Weight are identified as TNT equivalent.
3. See Section 01010 / 10.5
4. The control rooms required at the Processing and Machining areas are required for remote operational control of explosive processing procedures. The control rooms are not hazardous and require no hands-on processing of explosives. The control rooms will serve remote operations in processing and machining rooms as listed on the Architectural Room by Room Requirements spread sheet. One each control room for Machining Rooms 301 & 302. One each control room for Processing Rooms 210 & 211.

103. Contractor question: What is the maximum explosive amount being transferred via the loading dock at any given time? Does the loading dock have to be attached to any building? If the loading dock has a high explosive allowance, can it be located outside the building perimeter enclosure?

Government response:

1. A maximum of 400lbs TNT, or equivalent HD 1.1D explosives. Note: Loads due to forklift traffic shall also been taken into account.
2. Yes, to the building containing the machining shops and the processing rooms.
3. The loading dock shall be located to provide convenient and efficient transfer of materials to both the machining and processing areas.

104. Contractor question: Is this location considered a secured site?

Government response: Yes.

105. Contractor question: Given the magnitude of the project, we respectfully request that the deadline for questions be extended by at least another week to allow us to pose all the necessary inquiries and identify to the COE the discrepancies we observe.

Government response: There will be no extension of the deadline to submit questions.

106. Contractor question: Additionally, the RFP does not provide any information as to the size, quantities and details of the renovation work to be performed on Building # 225. Given that there are no drawings available for that building, we respectfully request that we be given an opportunity to send a surveying team to take all the measurement needed for building # 225, since we were not aware of the extent of deterioration and detail needed until we saw the site on July 1, 2004.

Government response: See amendment 0005 to this solicitation.

107. Contractor question: Is the covered walkway to be provided with heat and air conditioning?

The RFP states that corridors are to be conditioned but it is unclear if this includes the walkway. The walkway is not specifically mentioned in the chart on the interior design conditions.

Government response: Covered, connecting walkways between buildings, including those connecting walkways with weather panels do not require heat or air conditioning. This only applies to the walkways connecting buildings (i.e. the Processing to the Magazines, Administration Building to Processing and the Processing to Bldg 225). All other walkways and hallways shall be fully conditioned per paragraph 6.2.4.3.

108. Contractor question: There is a requirement for a monthly partnership meeting to be held off site. The contractor is to provide a person to organize the meetings and provide agenda for the all day session. This is new for us. Would you please provide a description of what will be required for these meetings for topics and your concept of their goals? Also are these meeting to be held throughout the duration of the project or during specific phases such as the design?

Government response: See amendment 0005 to this solicitation.

109. Contractor question: Do we need restrooms and/or break room / kitchen for Processing & Machining Areas?

Government response: No. These facilities are to be located in the administration building and positioned to allow convenient access from the processing areas without disrupting the administrative office areas.

110. Contractor question: In regards to the solicitation, under spec section 00120/Factor 2.a., we need a definition/explanation of the term “vertical design build” project.

Government response: Vertical design build refers to design build projects for buildings, one story and taller.

REVISED BID SCHEDULE

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Design/Build FFP of Explosion Research and Development Loading Facility Administration Component, Site Work: All site work, including utilities, associated with the design and construction of the administration component, complete. PURCHASE REQUEST NUMBER: W16ROE-4100-7736	1	Lump Sum		

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Design/Build FFP of Explosion Research and Development Loading Facility Administration Component, Building. All work associated with the Design and construction of the administration component, complete.	1	Lump Sum		

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	Design/Build FFP of Explosion Research and Development Loading Facility Explosive Processing and Explosive Machining components, site work: All site work associated with the Design and Construction of the explosive processing and explosive machining components, complete.	1	Lump Sum		

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Design/Build FFP of Explosion Research and Development Loading Facility explosive processing and explosive machining components, building: All work associated with the design and construction of the explosive processing and explosive machining components, complete.	1	Lump Sum		

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	Design/ Build FFP Of Explosion Research and Development Loading Facility Explosive storage component, site work: Allsite work associated with the design and construction of the explosive storage, complete.	1	Lump Sum		

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006	Design/Build FFP of Explosion Research and Development Loading facility explosive storage component, building: all work associated with the Design and Construction of the Explosive storage component, complete.	1	Lump Sum		

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007	ROCK EXCAVATION (ESTIMATED QUANTITY) FFP IAW Section 01010, PARA. 2.6.3, (Excludes Price of Non-Rock Excavations Required by Contract) (Estimated Quantity)	175	Cubic Yard		

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008		1	Dollars, U.S.		

Project Punch List

FFP

TO: This line applies to all punch list items including those items identified at the prefinal and final inspections and is above the normal retainage for this item. Offerors shall include this amount in the bid price "\$50,000.00". This amount shall not be changed. This amount shall be retained by the Government in the event contractor fails to complete punch list items. This amount is separate from liquidated damages to be applied in the event the contractor fails to complete the work within the time specified in the contract including any extensions. See Section 00800 for additional information. (No partial payments will be provided until final acceptance of this item).

\$50,000.00

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009		1	Dollars, U.S.		

As-Built

FFP

Drawings Per The 00800 Section TO:
 For Design Build a modern, approximately 28,000 square feet functionally configured explosive research and development facility, Picatinny, New Jersey (No partial payments will be provided until final acceptance of this item). "\$15,000.00".

\$15,000.00

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010		1	Dollars, U.S.		

50% As Built
 FFP
 Drawings Per The 00800 Section For
 Design Build a modern, approximately 28,000 square feet functionally configured
 explosive research and development facility, Picatinny, New Jersey (No partial
 payments will be provided until final acceptance of this item). \$7,500.00.
 Reference Paragraph 1.10 e. (00800 Section)

\$7,500.00

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011		1	Lump Sum		

OPTION Option 1: Design/Build
 FFP
 of upgrade of exterior of building 225: All work associated with the design and
 construction of the refinishing of the exterior of the building 225 to be
 architecturally compatible with other components of the project, complete (if
 exercised), including required asbestos survey and abatement, demolition and new
 constuction.

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0012		1	Lump Sum		
OPTION	Option 2: Design/Build FFP of enclosed 8 foot walkway between explosive research and development loading facility and building 225, complete: All work associated with the design and construction of the enclosed walkway from the explosive processing and explosive machining components to building 225, complete (if exercised), including sitework, foundations, framing, translucent siding, roofing, lighting, entry and exit doors.				

NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013		1	Lump Sum		
OPTION	Option 3: Design/Build FFP of enclosed 8 foot walkway between explosive research and development loading facility and the administration component, complete: All work associated with the design and construction of the enclosed walkway from the explosive processing and explosive machining components to the administration component, complete (if exercised), including sitework, foundations, framing, translucent siding, roofing, lighting, entry and exit doors.				

NET AMT

1. TOTAL BASE BID FOR LINE ITEMS 0001-0010

\$ _____

1. TOTAL OPTION FOR LINE ITEMS 0011-0013

\$ _____

1. TOTAL BASE PLUS OPTIONS (LINE ITEMS 0001-0013)

\$ _____

Options may be exercised within 180 calendar days after award of the contract.

SECTION 00010 - SOLICITATION CONTRACT FORM

The required response date/time has changed from 23-Jul-2004 02:00 PM to 03-Aug-2004 02:00 PM.

The required performance has changed from Design Build a modern, approximately 28,00 Square Feet functionally configured explosive Research and Development facility, Picatinny, New Jersey. This Procurement is restricted for 8(a) Competitive NAICS CODE 236210, Size Standard: \$28.5 million SIC CODE , 1531 Contract Specialist: Loretta Parris, (212)264-4863 Technical Coordinator: Perry Pang, (212)264-9095 NOTE NEW REQUIREMENT: BONDS, POWERS OF ATTORNEY, STATEMENTS OF AUTHENTICITY AND CONTINUING VALIDITY, AND ALL RELATED DOCUMENTS MUST NOT BEAR COMPUTER GENERATED SIGNATURES AND/OR SEALS. DOCUMENTS BEARING SIGNATURES AND/OR SEALS GENERATED AS PART OF A DOCUMENT, AS OPPOSED TO BEING AFFIXED TO THE DOCUMENT AFTER ITS GENERATION, WILL NOT BE ACCEPTED. SUBMISSION OF SUCH DOCUMENTS MAY RENDER THE BID OF OFFER NON-RESPONSIVE AND INELIGIBLE FOR AWARD. PLEASE REVIEW ALL BONDS AND ACCOMPANYING DOCUMENTS REQUIRED TO BE SUBMITTED. to Design Build a modern, approximately 28,00 Square Feet functionally configured explosive Research and Development facility, Picatinny, New Jersey. This Procurement is restricted for 8(a) Competitive NAICS CODE 236210, Size Standard: \$28.5 million SIC CODE , 1531 Contract Specialist: Scott Helmer, (212)264-9118 Technical Coordinator: Perry Pang, (212)264-9095 NOTE NEW REQUIREMENT: BONDS, POWERS OF ATTORNEY, STATEMENTS OF AUTHENTICITY AND CONTINUING VALIDITY, AND ALL RELATED DOCUMENTS MUST NOT BEAR COMPUTER GENERATED SIGNATURES AND/OR SEALS. DOCUMENTS BEARING SIGNATURES AND/OR SEALS GENERATED AS PART OF A DOCUMENT, AS OPPOSED TO BEING AFFIXED TO THE DOCUMENT AFTER ITS GENERATION, WILL NOT BE ACCEPTED. SUBMISSION OF SUCH DOCUMENTS MAY RENDER THE BID OF OFFER NON-RESPONSIVE AND INELIGIBLE FOR AWARD. PLEASE REVIEW ALL BONDS AND ACCOMPANYING DOCUMENTS REQUIRED TO BE SUBMITTED..

This CLIN has been renumbered to CLIN 0011.

CLIN 0008

This CLIN has been renumbered to CLIN 0012.

CLIN 0009

This CLIN has been renumbered to CLIN 0013.

CLIN 0010

This CLIN has been renumbered to CLIN 0008.

CLIN 0011

This CLIN has been renumbered to CLIN 0010.

CLIN 0012

This CLIN has been renumbered to CLIN 0009.

CLIN 0007 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007	ROCK EXCAVATION (ESTIMATED QUANTITY) FFP IAW Section 01010, PARA. 2.5, (Excludes Price of Non-Rock Excavations Required by Contract) (Estimated Quantity)	175	Cubic Yard		

NET AMT

FOB: Destination

INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for CLIN 0007:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

SECTION 00700 - CONTRACT CLAUSES

The following have been added by full text:

252.232-7004 DOD PROGRESS PAYMENT RATES (OCT 2001)

(a) If the contractor is a small business concern, the Progress Payments clause of this contract is modified to change each mention of the progress payment rate and liquidation rate (excepting paragraph (k), Limitations on Undefinitized Contract Actions) to 90 percent.

(c) If the contractor is a small disadvantaged business concern, the Progress Payments clause of this contract is modified to change each mention of the progress payment rate and liquidation rate (excepting paragraph (k), Limitations on Undefinitized Contract Actions) to 95 percent.

(End of clause)

(End of Summary of Changes)

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER QUALITY
CN425
TRENTON, N.J. 08625-0425
TREATMENT WORKS APPROVAL PROGRAM

CERTIFICATION FOR APPROVAL BY PROFESSIONAL ENGINEER

Within 30 days after the construction of the treatment works has been completed, the permittee shall submit two executed copies of this form to the appropriate receiving wastewater treatment plant for their approval prior to operation. One executed copy approved by the receiving wastewater treatment plant shall be forwarded to the Division of Water Quality at the above noted address.

Treatment Works Approval Permit No.: _____

Name of Permittee: _____

Location of Activity: _____
(Municipality and County)

I hereby certify the treatment works identified above has been inspected and tested under my supervision. Construction was witnessed as required in the specifications.

The project was constructed in substantial conformance with the approved plans and specifications. Any minor exceptions to the approved plans and/or specifications are attached hereto with the approval of the permittee.

Signature of Certifying Engineer

*Professional Engineer's
Embossed Seal*

Name and Date
(Print or Type)

RECEIVING WASTEWATER TREATMENT PLANT ACKNOWLEDGMENT

Name of Wastewater Treatment Plant _____

Acknowledgment by Wastewater Treatment Plant Owner* _____
(signature and date)

*Person authorized to sign section C of the NJDEP's WQM-003 Consent Form.

SAFETY SITE PLAN

FOR

200 AREA

MCA PROJECT # 49472

PICATINNY ARSENAL, NJ

**Prepared by
AMSTA-A
July 2004**

SAFETY SITE PLAN

FOR

200 AREA

Introduction

This safety site plan pertains to the consolidation of the mission of the Energetic and Warheads Division into a single facility. This process is spread over 28 different old and decrepit buildings. A new building would be able to accommodate all the operations from all the old buildings at approximately 60 percent of the area currently occupied.

The new facility will include high bay areas, testing bays, storage areas, office area, and explosive storage magazines. The Facility will be enclosed with barricades on both sides. This facility will also include underground hot and cold-water recirculators, compressed air system, and vacuum pump system. Explosion proof lighting, conducting flooring, and lighting protection system will be provided.

Supporting facilities include all required utilities, paving, sidewalks, storm drainage, sanitary system, site improvements, parking area, and communication. Heat will be provided from a stand-alone boiler, which will provide steam service to this new building and other buildings (231, 236, 237 and 252) in the vicinity. Air conditioning and a ventilation system will also be provided.

Process Description

This process is required to support the only Army owned, Army operated facilities for energetic materials research, development, and interim qualification of new and improved energetic materials utilized in explosive munitions system (mines, armor, warhead, artillery, etc). This facility will have capability to develop new energetics from synthesis to scale up and loading to transition to the customer. The facility will also have press loading, experimental cast loading, precision machining and scale up of new high explosive formulations.

This process would provide EWD with an integrated and centralized facility for a substantial operating and maintenance cost savings. The operations include utilizing lathes, drill presses by remote control, to fabricate precision explosive shapes for use as samples or prototype test items. The high bays consist of different operations like Formulation, Oven Drying, Aging, Nitration Synthesis, Casting, Inspection and Assembly.

Building Description

A layout of building 200 areas is shown in Figure 1. Building number-1 is for administration and engineering work. Building number-2 is explosive storage and consists of four bays. Each bay is 14'x14' and is designed in accordance with TM5-1300, "Structures to Resist the effects of accidental explosion". Considering N.E.W. of 400lb this building is separated by barricaded intraline distance of 70ft as shown in fig-1.

The rear walls, roof and the dividing walls of the operating bays are to be reinforced concrete designed in accordance with TM5-1300. The exterior wall of the building, facing the open ends of the bays, is constructed of a wooden framework with "blow-out" panels and faces directly onto the near vertical slope of the mountain. The interior bays are also to be constructed of 12 inch reinforced concrete for roof and walls except the walls facing mountain. The sidewalls and the roofs of Inert casting, Inspection and Assembly bays are to be constructed of 12-inch reinforced concrete. Building number 3 is divided into different bays replacing operation that are performed in various buildings in 200 area. They are milling(28'x16'), curing oven(16'x24', replacing B234),

three bays each 16'x24' of drying ovens replacing B235, X-ray room(24'x24'), Holsten still equipment used for coating of RDX., Drying Oven(replacing B234, 16'x24'), melt/pour operation of explosives(24'x24'), BP mixer of explosives(24'x24") and three other rooms of size 20'x24' for inspection of material and explosive, assembly room(for future utilization) and rotary press for explosive and propellant units.

EXPLOSIVE LIMITS

The explosive limits for different operations are as shown below.

Building number 3- Process area.

Milling-50lb 1.1 for each bay.

Curing Ovens-100lb 1.1

Ovens areas 200lb 1.1

X-ray room 200lb 1.1

Holsten Still room 130lb 1.1

Drying oven room 200lb 1.1

Melt/pour room 350lb 1.1

BP mixer room 200lb 1.1

Inspection and assembly room 200 lb 1.1 in each room

Rotary press room 130lb 1.1

Building number 2- Magazine storage.

Four bays each with 400lb 1.1 maximum allowance.

All the bays are separated from each other by TM5- 1300 Blast walls.

PERSONNEL LIMITS

The total personnel limit for this facility is 10 people. This includes people working in the office.

Inhabited Building Distance (IBD) Requirements

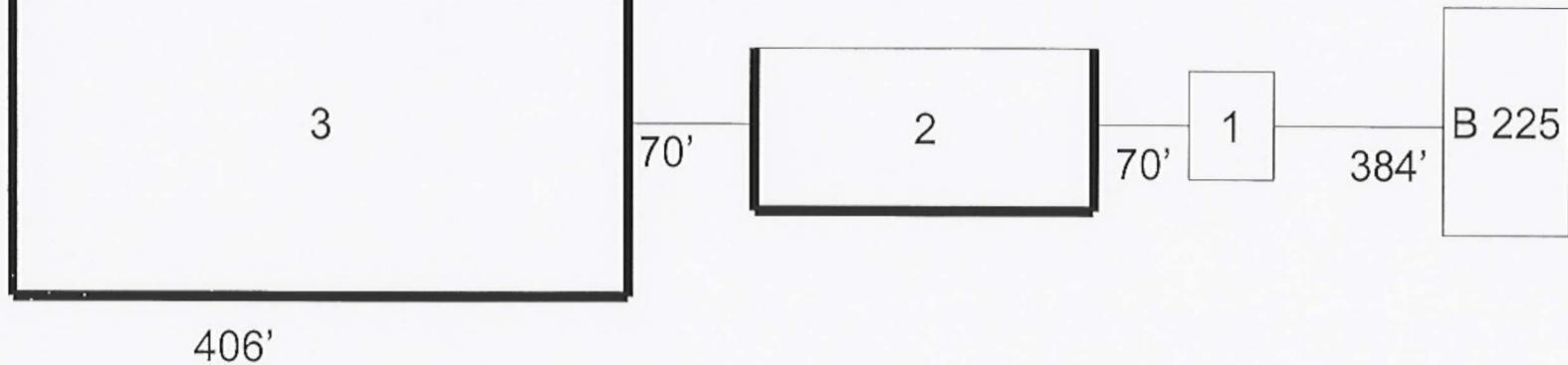
Since the bays (3 walls cubicles with roof) are designed IAW TM5-1300 debris can escape only toward the mountain. Potential debris is assumed to be projected 60 degrees from either side of a normal along the axis of the bays. For building number 2 which is explosive storage, N.E.W. is 400lb and using Table C2.T1. IBD distance is 1197ft and for building number 3 N.E.W. is 350lb, using the same table the IBD distance is 1145ft and the arc is shown in figure 2, it shows that there are no inhabited building in

that area except mountains and trees. Figure 4 shows IBD arc derived by using K40 factor. The arcs generated are shown in figure 4 for different operating rooms and it shows that there are no facilities with dissimilar operation in that area.

Intraline distance between building 1, 2 and 3, using explosive weight of 400lb from building 2 the intraline distance from army manual AR 385-64 is 64ft. The arc of 70ft is shown on figure 4.

The public traffic route is 60% of IBD and the arc of 720ft and 687ft is shown on figure 3. It shows there are no public routes inside that arc. The nearest public route is reilly road which is almost 1200ft from the building.

Note: Building 225 has explosive allowance of 50 lb. Using table C2.T1 hazardous fragment distance is 601 ft. During construction of new project the operation in building 225 will be conducted as usual and hence using 60% of distance comes out 361ft. The safe distance of 384ft is kept from B225 for public usage for new construction.



NOTE:

B 225 N.E.W.=50LB 1.1

1- Administrative Building

2- Magazine Storage, 4-Bays each 14'x14' N.E.W.=400LB 1.1

3- Process Building- N.E.W.=350LB 1.1

The sides of building 2&3 are substantial dividing walls as per TM5-1300

FIGURE-1

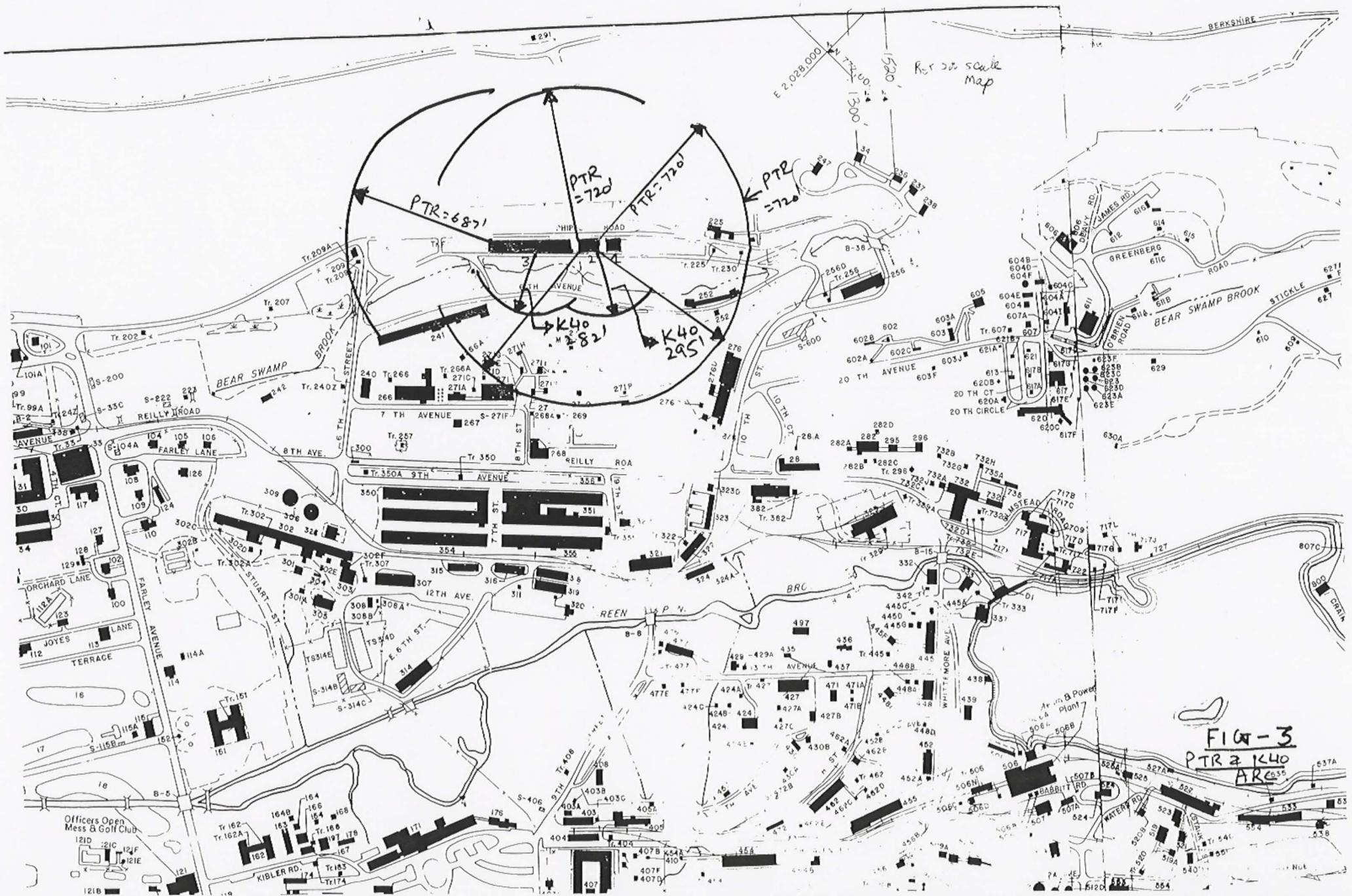
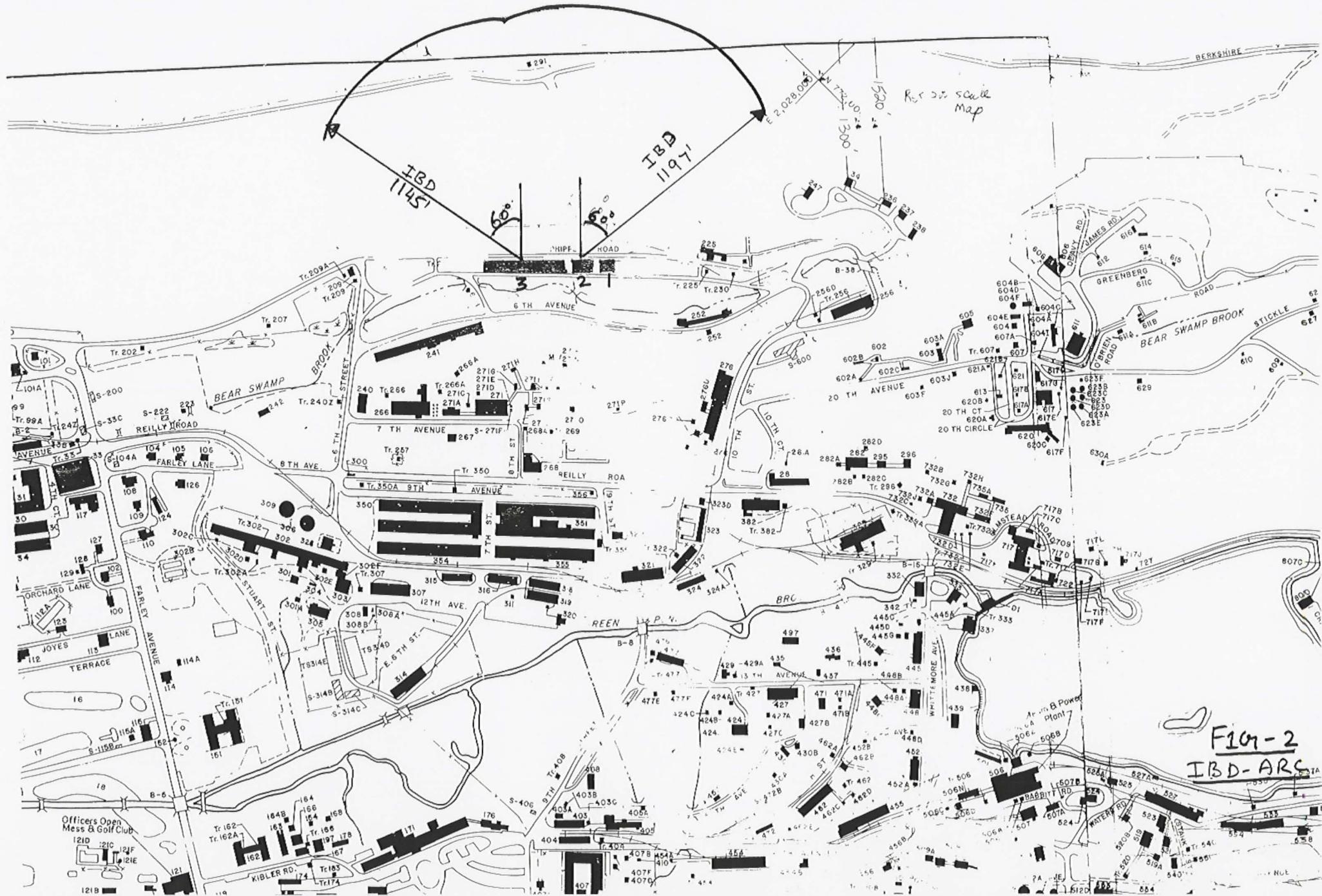


FIG-3
 PTR & K40
 ARE



IBD
1145

IBD
1197

Ref to scale
map

FIG-2
IBD-ARS

- #1 - OFFICE
- #2 - MAGAZINE STORAGE
- #3 - PROCESS AREA.
- M - MILLING ROOM
- CO - CURING OVEN
- O - OVENS
- CR = CONTROL ROOM
- M/P = MELT/POUR ROOM
- D.O = DRYING OVEN
- IN. = INSPECTION ROOM
- AS. = ASSEMBLY ROOM
- RP. = ROTARY PRESS

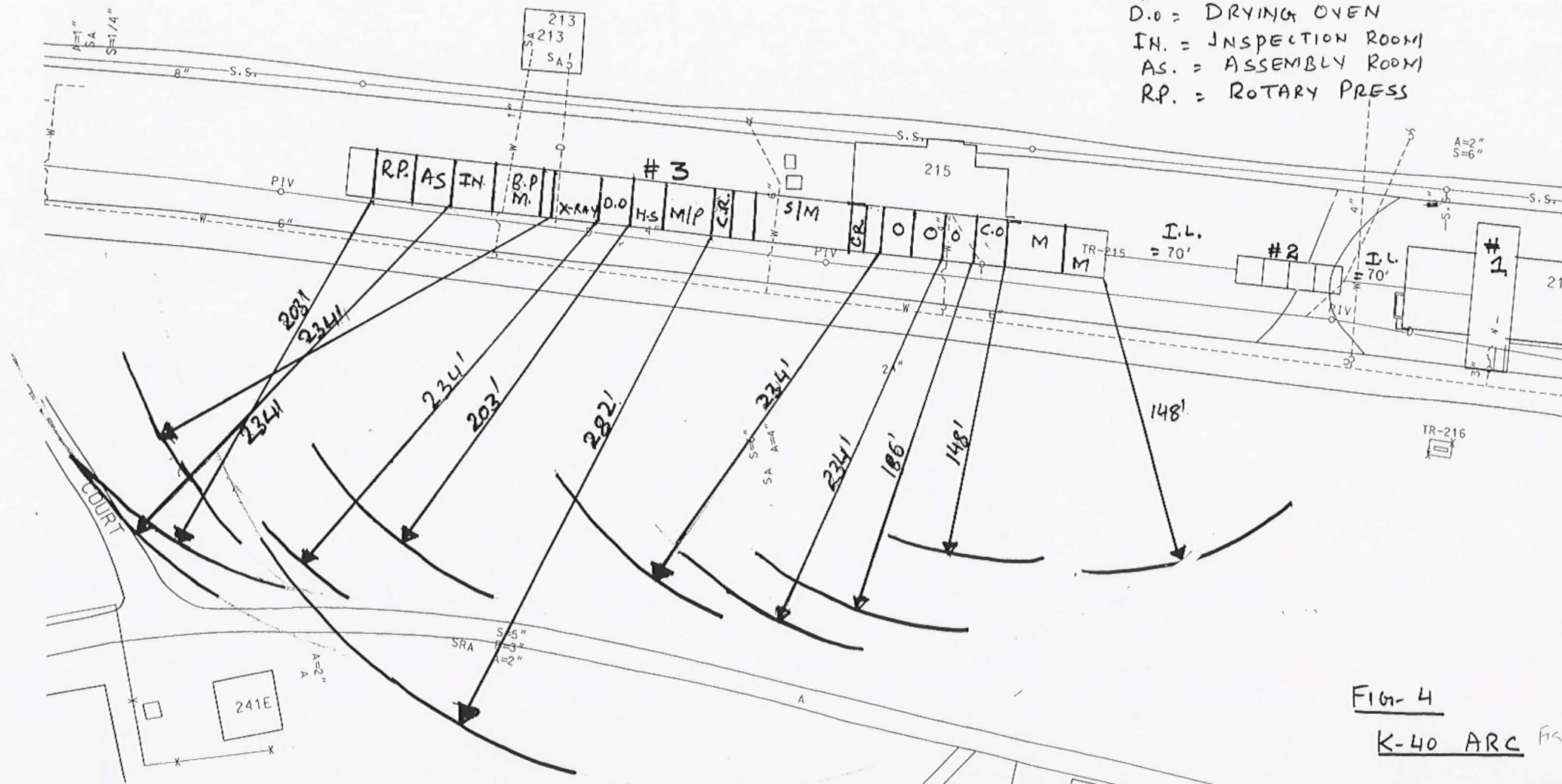


Fig-4
K-40 ARC Fig.