

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 6
2. AMENDMENT/MODIFICATION NO. 0007	3. EFFECTIVE DATE 12-Sep-2016	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)
6. ISSUED BY NAVAL FACILITIES ENG COMMAND WASHINGTON 1314 HARWOOD ST SE, BLDG 212 WASHINGTON NAVY YARD DC 20374	CODE N40080	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. N40080-16-R-1010	
		X	9B. DATED (SEE ITEM 11) 18-Jul-2016	
			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 type="checkbox"/> is extended, <input checked="" 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 <u>1</u> 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.) AMENDMENT 0007 N40080-16-R-1010 Demolish Buildings 2112, 2130, 2131, MCB Quantico, VA 1. Provide Responses to RFTs. 2. All other terms remain unchanged See Continuation Page.				
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 12-Sep-2016

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:

AMEND 0007

AMEND 0007

The purpose of this amendment is to incorporate the following:

- 1. Provide responses to RFI's**
- 2. All other terms remains unchanged.**

12 September 2016

N40080-16-R-1010 Larson's Gym Demo**AMENDMENT 0007****Responses to RFI:**

Question (1): In addendum 4, page 7 of 13 section 3 – talks about Factors 1,2, and 3. My question is regarding FACTOR 2, Is it my understanding that the only information to be included here is the EMR Rating and the OSHA (DART) Rating?

Response:

Factor 2 – Safety: Reference Page 10-11 of 13 made part of AMEND 0004.

Question (2): In addendum 4, page 8 of 13 section 3f – talks about The proposal shall be written to the greatest extent possible... What exactly are we saying? The SF 30 form is the proposal is it not?

Response:

f. The proposal shall be written to the greatest extent possible on a stand-alone basis so that it's content may be evaluated with a minimum of cross-referencing to other volumes of the proposal.

Question (3): Where can I get the Standard Form 24 for the Bid Guarantee?

Response: The standard form 24 is provided by the contractor's selected Surety Company.

Question (4): The request for a copy of ORCA and proof of SAM registration, has been consolidated and Registration in SAM is inclusive of all related registrations such as ORCA. We can print out a SAMS Entity Overall Detail report which will be supplied. Is this sufficient?

Response: Follow the terms of the solicitation requirements.

Question (5): As part of the Submission Package - A required Item is the SF 30 Form. I do not see this form. However, I see within the same "N4008016R1010Solicit_N40080-16-R-1010.pdf" a SF 33. Please Clarify (I do see, that the Addendums are using an SF 30 Form)

Response: Provide a signed copy of the SF-30, i.e. a signed copy to acknowledge all AMENDMENTS.

Question (6): IN THE CONTENT OF PROPOSAL Page 41 of 76, there are three steps that need to take place. However I am unclear as to these steps.

Question (6a): Is it my understanding that Item 1, is a combination of Item 2 and Item 3? Which is to be mailed on a CD in pdf format?

Response: As referenced in Page 41 of 76 of Solicitation N40080-16-R-1010, the following are to be made part of Item 1: completed signed solicitation packages, including executed representations and certifications, and cost/prices in Section B and any accompanying exhibits.

Question (6b): Is it my understanding that Item 2, is to be email to WHO? Therefore does the technical proposal comprise of solely the resumes of employees to be assigned to this project?

Response: (PT1) Reference AMENDMENT 0004, page 2 of 13. (PT2) Reference Page 42 of 76 “(c) TECHNICAL PROPOSAL”

Question (6c): Is it my understanding that Item 3, is to be email to WHO? Therefore to include pages 3,4,5, and 6 of 76 only, or are there additional items to be included here? The wording as follows is not clear:

Response: Reference AMENDMENT 0004, page 2 of 13.

Question (6d): In other words, is this wording above all inclusive and included as part of pages 3,4,5, and 6, or do we have to further breakdown all information separately on separate pages?

Response: Follow the terms of the solicitation.

Question (7): Where and or how do we file the VETS 100 form/ VETS report for the Cycle, is this required?

Response: <https://www.dol.gov/VETS/>

Question (8): Regarding Amendment 2, referring to note 9 on Drawing G-002 – Please clarify what specifically the Government refers to as leftover Supply/Chemical/Waste Materials.

RESPONSE: The category of items referred to by the term "supply/chemical/waste" materials encompass work related supply items purchased and brought into the building by the many facility users over years since the building was built. These items were left behind by the user when they vacated. Items and materials would include but not be limited to containers of paints, solvents, thinners, adhesives, oils, salts, acids, alkalizes, herbicides, pesticides, organic chemicals, etc. The term would also include containers of any waste products generated from these supply items during work activities. These items were not inventoried or sampled during the hazmat survey.

Question (9): Also does this waste materials include PCB light ballasts, mercury containing fixtures and Freon containing equipment?

RESPONSE: As it pertains to the Government's response to Question #8 in defining the term "supply/chemical/waste" materials , the answer is no.

Question (10): If it does not, does the Government intend to have the offeror dispose of these (PCB light ballasts, mercury containing fixtures and Freon containing equipment) materials as part of this solicitation?

RESPONSE: It is the responsibility of the contractor to properly dispose of these items. Follow the solicitation requirements.

Question (11): Both Davis Bacon Wages (Building) and Service Contract Act Wages have been provided in the bid documents. Please clarify which wages are to be used by the offeror.

Response: Reference AMEND 0006.

Question (12): To comply with Virginia DOLI a Project Monitor must be on site throughout the project to perform air monitoring services (for asbestos). Are the offerors responsible to include this or will this be provided by the installation?

RESPONSE: It is the responsibility of the contractor to properly dispose of these items. Follow the solicitation requirements.

Question (13): Regarding the VETS 100/100A filing, is this a mandatory requirement? In my research it was discovered that VETS 100A which is for Federal Contracts having been awarded after December 1, 2003 of \$100,000 or more are required to file. We do not have any current awarded Federal Contracts, therefore filing is not required. Is this correct?

RESPONSE: Reference 52.222-37 -- Employment Reports on Veterans.

Question (14): Is the steel, scrap metal, copper, etc. the property of the contractor?

RESPONSE: The Government has identified the items that shall be retained by the Government in Amendment #0002. The contractor shall follow the solicitation and amendment requirements to dispose of all remaining materials.

Question (15): Is there any hard fill site material available by the government where we can dump the access concrete, brick, block, etc.?

RESPONSE: No.

Question (16): Can we downsize the concrete, block, brick, and stockpile on site for future use by the government?

RESPONSE: The concrete, block, and brick can be downsized. However, all the material must be disposed of off the installation. The contractor shall follow the solicitation and amendment requirements to dispose of the materials.

Question (17): After we collect and sort the chemicals will the government be packaging, transporting, and disposing these items?

RESPONSE: Refer to Note #9 on Drawing G-002, specifically 9.4.

Question (18): Since we are excavating in areas of unknown ordnance explosives (UXO), what are the procedures that have been put in place for this segment of work. And if not, what are the guidelines to safely proceed with excavation? In addition, are we looking at physical items of ammunition or chemicals that have saturated the ground that may be explosive?

RESPONSE: Refer to [Specification section 01 35 26 Page 6] & [Drawing G-002, Note 4] & Contract Amendment #5. The ESSDR referenced in the Specifications and Drawings to be submitted by the contractor was submitted by the Government. MARCORSSYSCOM PM AMMO requires oversight by a UXO Tech III when performing any land disturbing or excavation activities. Consult with your UXO Tech III for the required procedures to follow during land disturbing or excavation activities. All UXO Tech III's shall be required to meet the requirements in DDESB TP 18 Minimum Qualifications for Unexploded Ordnance (UXO) Technicians and Personnel.

Question (19): Can you show the locations of any hydrants we can use during demolition activities for dust control.

RESPONSE: On the attached drawing (Q20_Drawing), hydrant #'s 1, 2, 4, and 6 are active and can be used for dust control providing the contractor follows the installation's procedures for connecting to the water distribution system (i.e backflow preventers, etc). Hydrant #3 has been removed and no longer exists. The other remaining hydrant #5 is not functioning.

Question (20): Is there a fee for water usage?

RESPONSE: There is no fee charged for water used from the installation's water distribution system at the Larson's Gym site providing it supports the Larson's Gym demolition project activities.

Question (21): Are there any additional fees for any permits, Demolition permit, Utility Disconnect permits, etc.

RESPONSE: There are no fees charged by the installation for installation permits. The contractor will need to inquire with non-installation entities (i.e. Federal, State and County Governments) as to what fees they charge for required permits for specific actions.

Question (22): Are we required to supply resumes with salary information with the Technical Proposal, as indicated in the following excerpt?

Response: Yes.

Question (23): Based on the removal of the Davis Bacon Wage VA160117 in Amendment 5, what is the wage determination that applies?

Response: Reference AMENDMENT 0006.

Question (24): Is the gas and CATV public or private?

RESPONSE: The gas and CATV are not owned by the installation.

Question (25): Can Silt Sox be utilized in the pavement areas in lieu of the Silt Fence on pavement?

RESPONSE: Follow the solicitation requirements and Virginia's Erosion and Sediment Control Handbook.

Question (26): Will the Government provide a new bid form or should the Offerors amend the original bid form with the changes shown in Amendment 001?

Response: See attached Bid Form.

Question (27): Does Basis of Bid Item 001 (Base Bid) include the Hazmat removal? Is Item 0004 Hazmat Removal only for changes for a Variation in Estimated Quantities, or is it for the removal of Hazmat Items (thus not included in the Base Bid)?

Response:

a) The last sentence in the Bid Item 0001 states "All costs associated with removal and disposal of hazardous materials shall be included in this bid item". The hazardous materials are identified in the survey report.

b) The first sentence in the Bid Item 0004 states the purpose is to develop unit prices for hazardous materials removal and disposal based on quantities estimated from the hazardous materials survey report. The specified +/- percentages as outlined in [FAR Clause 52.211-18, Variation in Estimated Quantity, pertain to the difference between the "actual" quantities found by the contractor and the quantities estimated from the hazardous materials survey report. If the quantity difference stays within the FAR +/- percentages, the unit price bid by the contractor in Bid Item 004 shall be the unit price used to calculate costs. If the quantity difference falls outside the FAR +/- percentages, the unit price bid by the contractor shall be the starting point for negotiating any contract hazmat change orders for the quantity variation.

Question (28): In reference to the Temporary parking lot in drawing C-021 note 4, where is the detail for construction. In other words, type of material, depth, fabric, etc..

RESPONSE: Reference Drawing C-021 and Spec 01 50 00. The requirement in the project package is to provide/maintain a minimum of 250 spaces at all times. The 250 spaces can be a combination of existing parking, new parking, or temporary parking spaces. The number of spaces available in the existing asphalt parking areas around the facility during the various stages of demolition shall depend upon the contractor's demolition plan and the demolition safety boundary set by the contractor for vehicles and personnel for each stage. Since the contractor's means and methods are unknown, the number of existing asphalt parking spaces around the facility planned to be used by the contractor are unknown. A location for a temporary parking lot area is shown on drawing C-021 should the contractor's means and methods require additional parking space to the existing asphalt area around the facility. As stated in note 4, the Government requirement for this area is that it be a stabilized surface. As to whether that stabilized surface is composed of gravel, a netpave type material (or combination of the two), or some other stabilizing material; is for the contractor to determine.

Question (29): Can the Government provide a name of a Company that provides UXO services (required by this bid solicitation) that is familiar with working at Quantico?

Response: No.

Question (30): In regards to asphalt and concrete materials being removed from the project site, is there an area within the base we can dispose of these materials or will all asphalt and concrete be required to be removed offsite?

Response: See responses to questions #15 and #16.

Question (31): Site Restoration-The drawings call out for the disturbed areas to be seeded, the specifications call out for Sod (Section 32-92-23). Is it the NAVFAC's intent to have the disturbed areas sod or seeded.

Response: See attached PDF made part of AMEND 0007.

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The below Table of Contents has been added

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	N40080-16-R-1010_AMEND 0007_Supporting Docs		

(End of Summary of Changes)

BID SCHEDULE

Demolition of Larson's Gym (Bldg 2112), Bldgs 2130/2131 & Ancillary Structures
Marine Corps Base Quantico
Quantico, Virginia

ITEM	DESCRIPTION	PRICE
0001	<p>Basis of Bid for Item 0001 (BASE BID) shall be the entire work complete in accordance with the Contract Documents for demolition of Larson's Gym (Bldg 2112), Bldgs 2130/2131 & Ancillary Structures, but not including work indicated or specified to be provided under any of the other bid items. All costs associated with removal and disposal of hazardous materials shall be included in this bid item.</p>	
	Price for Item 0001	\$ _____
0002	<p>Basis of Bid for Item 0002 (OPTION #1) shall be the entire work complete in accordance with the Contract Documents for the demolition of the asphalt surfaces east of the proposed future fence (PFF) location and restore them to a grass surface, but not including work indicated or specified to be provided under any of the other bid items.</p>	
	Price for Item 0002	\$ _____
0003	<p>Basis of Bid for Item 0003 (OPTION #2) shall be the entire work complete in accordance with the Contract Documents for turning the building footprint areas west of PFF into paved/stripped/blocked parking areas in lieu of restoring them to a grass surface, but not including work indicated or specified to be provided under any of the other bid items.</p>	
	Price for Item 0003	\$ _____
	Total Price for All Items 0001 – 0003:	\$ _____

0004

Basis of Bid for Item 0004 is to develop a **UNIT PRICE** for the removal and disposal of hazardous materials to be accomplished by change orders (if required) after contract award. A **UNIT PRICE** is required and no provision will be made for economic price adjustments unless the actual quantities falls outside the listed quantities from the hazardous materials survey report by the specified +/- percentages as outlined in FAR Clause 52.211-18, Variation in Estimated Quantity. If economic price adjustments are required for quantities outside the specified +/- percentages as outlined in FAR Clause 52.211-18, the **UNIT PRICES** shall be the starting point for any contract hazmat change order proposals that shall be negotiated and agreed upon by both parties.

Note: Containing Asbestos = (c/ASB)

1. Ballasts containing PCB's

\$ _____ / each X 20 units = \$ _____

2. Mercury-Containing Thermostat/Device

\$ _____ / each X 5 units = \$ _____

3. Trowelled-on Over Cork Tank Insulation c/ASB

\$ _____ / each X 520 SF = \$ _____

4. Pipe insulation c/ASB

\$ _____ / LF X 3,000 LF = \$ _____

5. Mudded Pipe Fitting Insulation c/ASB

\$ _____ / each X 310 units = \$ _____

6. Block Duct Insulation c/ASB

\$ _____ / SF X 700 SF = \$ _____

7. Fire rated doors c/ASB

\$ _____ / each X 100 units = \$ _____

8. Galbestos Coatings c/ASB

\$ _____ / SF X 6,100 SF = \$ _____

9. Flooring material and mastic c/ASB under carpet

\$ _____ / SF X 7,700 SF = \$ _____

10. Residual mastic c/ASB

\$ _____ / SF X 260 SF = \$ _____

11. Transite Siding Shingles c/ASB

\$ _____ / SF X 800 SF = \$ _____

12. Transite board or panels (c/ASB)

\$ _____ / SF X 20,000 SF = \$ _____

13. Transite Piping: Underground (c/ASB)

\$ _____ / LF X 1,000 LF = \$ _____

14. Damp Proofing c/ASB

\$ _____ / SF X 3,200 SF = \$ _____

15. Caulk/Sealant c/ASB

\$ _____ / LF X 3,200 LF = \$ _____

16. Window Glazing c/ASB

\$ _____ / LF X 17,150 LF = \$ _____

17. Drywall and Joint Compound c/ASB

\$ _____ / SF X 70 SF = \$ _____

18. TSI Debris c/ASB

\$ _____ / SF X 6,310 SF = \$ _____

19. Electrical Box, Back Panel c/ASB

\$ _____ / SF X 10 SF = \$ _____

20. Electrical Panel, Spark Shield c/ASB

\$ _____ / SF X 30 SF = \$ _____

21. Silver paint c/ASB

\$ _____ / SF X 6,700 SF = \$ _____

22. Corrugated Transite Roofing c/ASB

\$ _____ / SF X 1,100 SF = \$ _____

23. Roof Cement c/ASB

\$ _____ / SF X 240 SF = \$ _____

24. Roof Flashing c/ASB

\$ _____ / SF X 7,000 SF = \$ _____

25. Roof Pitch Pockets c/ASB

\$ _____ / SF X 20 SF = \$ _____

26. Fluorescents Containing Mercury Vapor

\$ _____ / EA X 2100 units = \$ _____

27. Lamps Containing Mercury Vapor

\$ _____ / EA X 140 units = \$ _____

Total Price for Item 0004 #'s 0001 – 0027: \$ _____

Total Price for All Items 0001 – 0004: \$ _____

Notes:

- (1) Offeror shall provide a price for all items on the Bid Schedule. Failure to propose on all items may result in your proposal being rejected as non-responsive.
- (2) The Offeror's price shall be valid for 120 days from the receipt of proposals.
- (3) For Item 0004, a unit price is required and no provision will be made for economic price adjustments unless the listed quantities falls outside the specified +/- percentages as outlined in FAR Clause 52.211-18, Variation in Estimated Quantity.
- (4) For Item 0004, In the event there is a difference between a unit price and the extended total, the unit price will be held to be the intended bid. If the bidder shows only the total price but fails to enter a unit price, the total divided by the estimated quantity will be held to be the intended unit price.

Name & Address of Firm Submitting Offer:

Signature: _____

Phone: _____

Email: _____

Fax: _____

ACKNOWLEDGEMENT OF AMENDMENT(S): _____

For the Bid Schedule & Design Package: Item 0002 (OPTION #1), work associated with the parking lot shall be accomplished after the buildings are demolished and all the heavy equipment and dump trucks used to accomplish the action are no longer used. See Figures C.

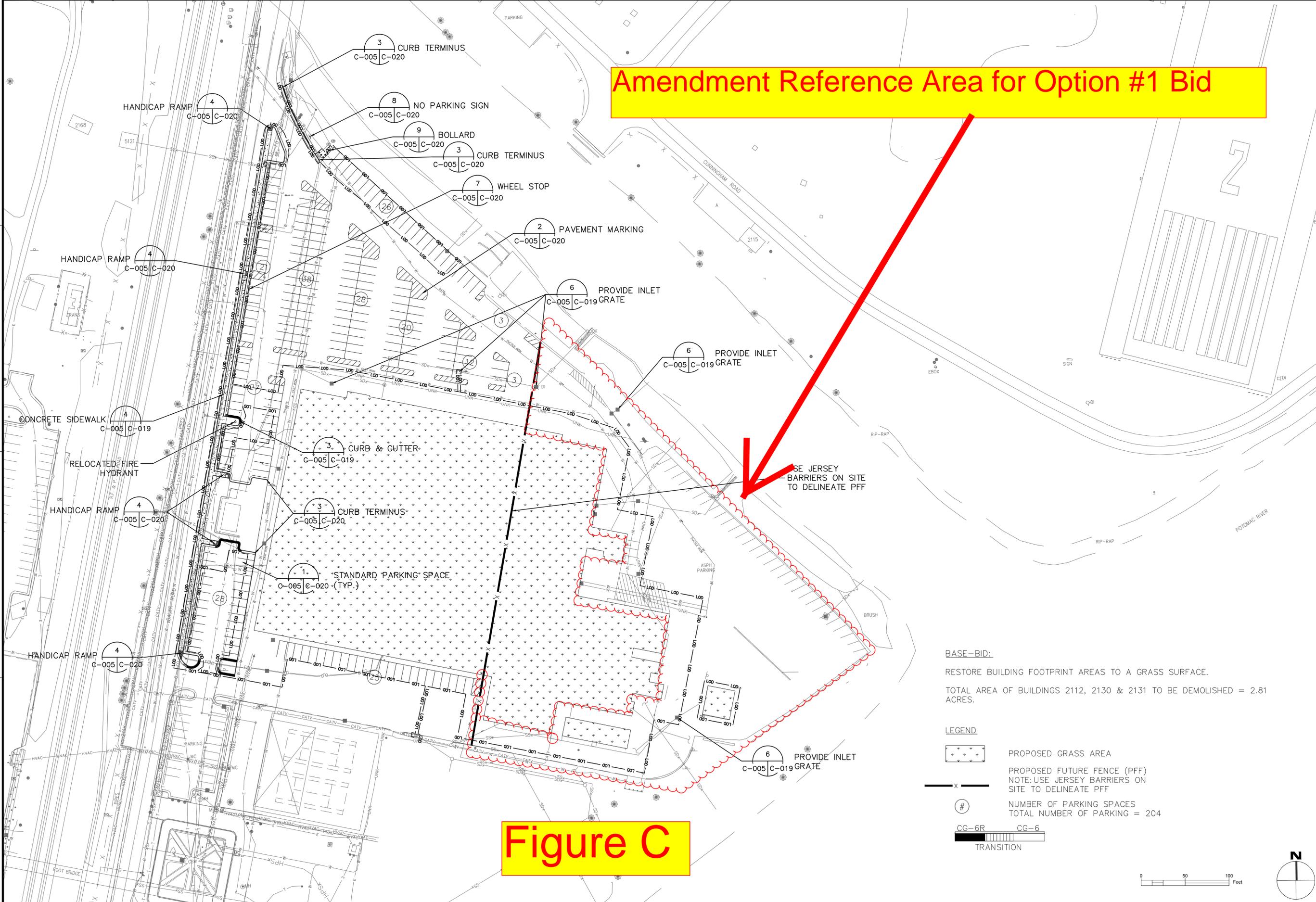
As such, contractors shall schedule their work accordingly and their proposals shall reflect this scheduling requirement. After heavy equipment use has concluded, the Contractor shall request and receive approval from the Contracting Officer before proceeding with the parking lot area work in Option #1. Work associated with the parking lot covers the following:

1. Milling or removal of the existing parking lot asphalt.

If there is an action which is included in the above restriction that the contractor desires to accomplish while the heavy equipment is being used during demolition, Contractor shall request and receive approval from the Contracting Officer before proceeding. If the request is not approved by the Government, no provision shall be made for an increase in the awarded contract amount due to the Government declining the request.

Amendment Reference Area for Option #1 Bid

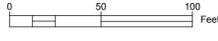
Figure C



BASE-BID:
 RESTORE BUILDING FOOTPRINT AREAS TO A GRASS SURFACE.
 TOTAL AREA OF BUILDINGS 2112, 2130 & 2131 TO BE DEMOLISHED = 2.81 ACRES.

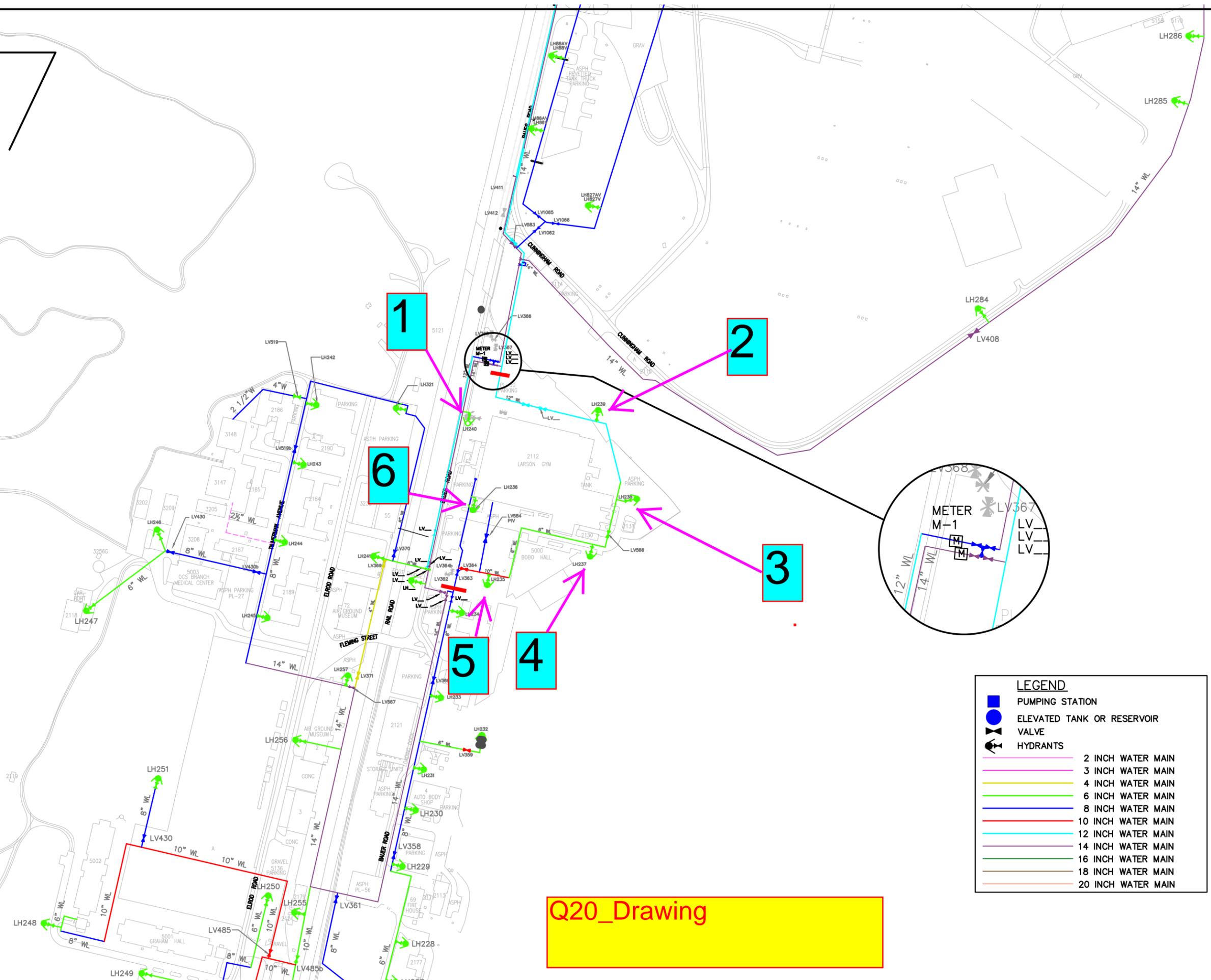
LEGEND

- PROPOSED GRASS AREA
- PROPOSED FUTURE FENCE (PFF)
NOTE: USE JERSEY BARRIERS ON SITE TO DELINEATE PFF
- # NUMBER OF PARKING SPACES
TOTAL NUMBER OF PARKING = 204
- CG-6R CG-6
TRANSITION



   	APPROVED: _____ PER COMMANDER NAVFAC ACTIVITY: _____ SATISFACTORY TO: _____ DATE: _____ DES: _____ DRAW: _____ CHK: _____ BRANCH MANAGER: _____ CHIEF ENG/ARCH: _____ COMMENTS: _____
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON PUBLIC WORKS BRANCH MARINE CORPS BASE QUANTICO	QUANTICO, VIRGINIA DEMOLITION OF LARSON'S GYM (BLDG 2112), BLDGS 2130/2131, & ANCILLARY STRUCTURES CIVIL SITE PLAN - BASE BID
SCALE: AS NOTED HQMC#QU1333M/PWB#2005438 CONSTR. CONTR. NO.	NAVFAC DRAWING NO. 3190086 SHEET 7 OF 40 C-005 <small>DRAWING REVISION: 10 MARCH 2009</small>

17



1

2

6

3

5

4

LEGEND	
	PUMPING STATION
	ELEVATED TANK OR RESERVOIR
	VALVE
	HYDRANTS
	2 INCH WATER MAIN
	3 INCH WATER MAIN
	4 INCH WATER MAIN
	6 INCH WATER MAIN
	8 INCH WATER MAIN
	10 INCH WATER MAIN
	12 INCH WATER MAIN
	14 INCH WATER MAIN
	16 INCH WATER MAIN
	18 INCH WATER MAIN
	20 INCH WATER MAIN

Q20_Drawing

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-- End of Project Table of Contents --

SECTION 32 92 19

SEEDING

10/06

PART 1 GENERAL

1.1 REFERENCES

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

ASTM INTERNATIONAL (ASTM)

ASTM C602	(2013a) Agricultural Liming Materials
ASTM D4427	(2013) Peat Samples by Laboratory Testing
ASTM D4972	(2013) pH of Soils

U.S. DEPARTMENT OF AGRICULTURE (USDA)

AMS Seed Act	(1940; R 1988; R 1998) Federal Seed Act
DOA SSIR 42	(1996) Soil Survey Investigation Report No. 42, Soil Survey Laboratory Methods Manual, Version 3.0

1.2 DEFINITIONS

1.2.1 Stand of Turf

95 percent ground cover of the established species.

1.3 RELATED REQUIREMENTS

Section 31 00 00 EARTHWORK, Section 32 92 23 SODDING, applies to this section for pesticide use and plant establishment requirements, with additions and modifications herein.

1.4 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Fertilizer

Include physical characteristics, and recommendations.

SD-06 Test Reports

Topsoil Composition Tests (reports and recommendations).

SD-07 Certificates

State certification and approval for seed

1.5 DELIVERY, STORAGE, AND HANDLING

1.5.1 Delivery

1.5.1.1 Seed Protection

Protect from drying out and from contamination during delivery, on-site storage, and handling.

1.5.1.2 Fertilizer, Sulfur, Iron and Lime Delivery

Deliver to the site in original, unopened containers bearing manufacturer's chemical analysis, name, trade name, trademark, and indication of conformance to state and federal laws. Instead of containers, fertilizer may be furnished in bulk with certificate indicating the above information.

1.5.2 Storage

1.5.2.1 Seed, Fertilizer, Sulfur, Iron and Lime Storage

Store in cool, dry locations away from contaminants.

1.5.2.2 Topsoil

Prior to stockpiling topsoil, treat growing vegetation with application of appropriate specified non-selective herbicide. Clear and grub existing vegetation three to four weeks prior to stockpiling topsoil.

1.5.2.3 Handling

Do not drop or dump materials from vehicles.

1.6 TIME RESTRICTIONS AND PLANTING CONDITIONS

1.6.1 Restrictions

Do not plant when the ground is frozen, snow covered, muddy, or when air temperature exceeds 90 degrees Fahrenheit.

1.7 TIME LIMITATIONS

1.7.1 Seed

Apply seed within twenty four hours after seed bed preparation.

PART 2 PRODUCTS

2.1 SEED

2.1.1 Classification

Provide State-certified seed of the latest season's crop delivered in original sealed packages, bearing producer's guaranteed analysis for

percentages of mixtures, purity, germination, weedseed content, and inert material. Label in conformance with AMS Seed Act and applicable state seed laws. Wet, moldy, or otherwise damaged seed will be rejected. Field mixes will be acceptable when field mix is performed on site in the presence of the Contracting Officer.

2.1.2 Planting Dates

<u>Planting Season</u>	<u>Planting Dates</u>
Season 1	03/01 to 05/15 _____
Season 2	08/16 to 11/01 _____
Temporary Seeding	See Detail 5/C-013 _____

2.1.3 Seed Purity

Botanical Name	Common Name	Minimum Percent Pure Seed	Minimum Percent Germination and Hard Seed	Maximum Percent Weed Seed
Poa pratensis	Kentucky Bluegrass	90%	80%	2.5%
Festuca	Tall	98%	90%	2.5%

2.1.4 Seed Mixture by Weight

<u>Planting Season</u>	<u>Variety</u>	<u>Percent (by Weight)</u>
Season 1,2	Kentucky Bluegrass	60%
	Tall Fescue	40%

Proportion seed mixtures by weight. Temporary seeding must later be replaced by Season 1 or Season 2 plantings for a permanent stand of grass. The same requirements of turf establishment for Season 1 or Season 2 apply for temporary seeding.

2.2 TOPSOIL

2.2.1 On-Site Topsoil

Surface soil stripped and stockpiled on site and modified as necessary to meet the requirements specified for topsoil in paragraph entitled "Composition." When available topsoil shall be existing surface soil stripped and stockpiled on-site in accordance with Section 31 00 00 EARTHWORK.

2.2.2 Off-Site Topsoil

Conform to requirements specified in paragraph entitled "Composition."
Additional topsoil shall be furnished by the Contractor.

2.2.3 Composition

Containing from 5 to 10 percent organic matter as determined by the topsoil composition tests of the Organic Carbon, 6A, Chemical Analysis Method described in DOA SSIR 42. Maximum particle size, 3/4 inch, with maximum 3 percent retained on 1/4 inch screen. The pH shall be tested in accordance with ASTM D4972. Topsoil shall be free of sticks, stones, roots, and other debris and objectionable materials.

2.3 SOIL CONDITIONERS

Add conditioners to topsoil as required to bring into compliance with "composition" standard for topsoil as specified herein.

2.3.1 Lime

Commercial grade hydrate limestone containing a calcium carbonate equivalent (C.C.E.) as specified in ASTM C602 of not less than 110 percent.

2.3.2 Aluminum Sulfate

Commercial grade.

2.3.3 Sulfur

100 percent elemental

2.3.4 Iron

100 percent elemental

2.3.5 Peat

Natural product of peat moss derived from a freshwater site and conforming to ASTM D4427. Shred and granulate peat to pass a 1/2 inch mesh screen and condition in storage pile for minimum 6 months after excavation.

2.3.6 Sand

Clean and free of materials harmful to plants.

2.3.7 Perlite

Horticultural grade.

2.4 FERTILIZER

2.4.1 Granular Fertilizer

Organic, granular controlled release fertilizer containing the following minimum percentages, by weight, of plant food nutrients:

16 percent available nitrogen

8 percent available phosphorus
16 percent available potassium

2.4.2 Hydroseeding Fertilizer

Controlled release fertilizer, to use with hydroseeding and composed of pills coated with plastic resin to provide a continuous release of nutrients for at least 6 months and containing the following minimum percentages, by weight, of plant food nutrients.

16 percent available nitrogen
8 percent available phosphorus
16 percent available potassium

2.5 MULCH

Mulch shall be free from noxious weeds, mold, and other deleterious materials.

2.5.1 Straw

Stalks from oats, wheat, rye, barley, or rice. Furnish in air-dry condition and of proper consistency for placing with commercial mulch blowing equipment. Straw shall contain no fertile seed.

2.5.2 Hay

Air-dry condition and of proper consistency for placing with commercial mulch blowing equipment. Hay shall be sterile, containing no fertile seed.

2.6 WATER

Source of water shall be approved by Contracting Officer and of suitable quality for irrigation, containing no elements toxic to plant life.

PART 3 EXECUTION

3.1 PREPARATION

3.1.1 EXTENT OF WORK

Provide soil preparation (including soil conditioners as required), fertilizing, seeding, and surface topdressing of all newly graded finished earth surfaces, unless indicated otherwise, and at all areas inside or outside the limits of construction that are disturbed by the Contractor's operations.

3.1.1.1 Topsoil

Provide 4 inches of on-site topsoil to meet indicated finish grade. After areas have been brought to indicated finish grade, incorporate fertilizer and soil conditioners into soil a minimum depth of 4 inches by disking, harrowing, tilling or other method approved by the Contracting Officer. Remove debris and stones larger than 3/4 inch in any dimension remaining on the surface after finish grading. Correct irregularities in finish surfaces to eliminate depressions. Protect finished topsoil areas from damage by vehicular or pedestrian traffic.

3.1.1.2 Soil Conditioner Application Rates

Apply soil conditioners at rates as determined by laboratory soil analysis of the soils at the job site.

3.1.1.3 Fertilizer Application Rates

Apply fertilizer at rates as determined by laboratory soil analysis of the soils at the job site.

3.2 SEEDING

3.2.1 Seed Application Seasons and Conditions

Immediately before seeding, restore soil to proper grade. Do not seed when ground is muddy, frozen, snow covered or in an unsatisfactory condition for seeding. If special conditions exist that may warrant a variance in the above seeding dates or conditions, submit a written request to the Contracting Officer stating the special conditions and proposed variance. Apply seed within twenty four hours after seedbed preparation. Sow seed by approved sowing equipment. Sow one-half the seed in one direction, and sow remainder at right angles to the first sowing.

3.2.2 Seed Application Method

Seeding method shall be broadcasted and drop seeding or hydroseeding.

3.2.2.1 Broadcast and Drop Seeding

Seed shall be uniformly broadcast at the rate of 100 pounds per acre. Use broadcast or drop seeders. Sow one-half the seed in one direction, and sow remainder at right angles to the first sowing. Cover seed uniformly to a maximum depth of 1/4 inch in clay soils and 1/2 inch in sandy soils by means of spike-tooth harrow, cultipacker, raking or other approved devices.

3.2.2.2 Hydroseeding

First, mix water and fiber. Wood cellulose fiber, paper fiber, or recycled paper shall be applied as part of the hydroseeding operation. Fiber shall be added at 1,000 pounds, dry weight, per acre. Then add and mix seed and fertilizer to produce a homogeneous slurry. Seed shall be mixed to ensure broadcasting at the rate of 100 pounds per acre square feet. When hydraulically sprayed on the ground, material shall form a blotter like cover impregnated uniformly with grass seed. Spread with one application with no second application of mulch.

3.2.3 Mulching

3.2.3.1 Hay or Straw Mulch

Hay or straw mulch shall be spread uniformly at the rate of 2 tons per acre. Mulch shall be spread by hand, blower-type mulch spreader, or other approved method. Mulching shall be started on the windward side of relatively flat areas or on the upper part of steep slopes, and continued uniformly until the area is covered. The mulch shall not be bunched or clumped. Sunlight shall not be completely excluded from penetrating to the ground surface. All areas installed with seed shall be mulched on the same day as the seeding. Mulch shall be anchored immediately following spreading.

3.2.3.2 Mechanical Anchor

Mechanical anchor shall be a V-type-wheel land packer; a scalloped-disk land packer designed to force mulch into the soil surface; or other suitable equipment.

3.2.4 Rolling

Immediately after seeding, firm entire area except for slopes in excess of 3 to 1 with a roller not exceeding 90 pounds for each foot of roller width. If seeding is performed with cultipacker-type seeder or by hydroseeding, rolling may be eliminated.

3.2.5 Watering

Start watering areas seeded as required by temperature and wind conditions. Apply water at a rate sufficient to insure thorough wetting of soil to a depth of 2 inches without run off. During the germination process, seed is to be kept actively growing and not allowed to dry out.

3.3 PROTECTION OF TURF AREAS

Immediately after turfing, protect area against traffic and other use.

3.4 RESTORATION

Restore to original condition existing turf areas which have been damaged during turf installation operations at the Contractor's expense. Keep clean at all times at least one paved pedestrian access route and one paved vehicular access route to each building. Clean other paving when work in adjacent areas is complete.

-- End of Section --

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		01 20 00.00 20	SD-01 Preconstruction Submittals														
			Earned Value Report	1.3	G												
		01 30 00	SD-01 Preconstruction Submittals														
			View location map	1.2	G												
			Progress and completion pictures	1.3	G												
		01 32 17.00 20	SD-01 Preconstruction Submittals														
			Qualifications	1.5	G												
			Baseline Network Analysis	1.3	G												
			Schedule														
			SD-07 Certificates														
			Monthly Network Analysis	1.7.1	G												
			SD-11 Closeout Submittals														
			As-Built Schedule	1.7.2	G												
		01 33 00	SD-01 Preconstruction Submittals														
			Submittal Register	1.7	G												
		01 35 13	SD-01 Preconstruction Submittals														
			Heavy Equipment and Vehicle List	3.1.2													
			Construction Operations Plan	3.1.2													
			Safety Plan	3.1.2													
			Schedule of Work	3.1.2													
		01 35 26	SD-01 Preconstruction Submittals														
			Accident Prevention Plan (APP)	1.8	G												
			Activity Hazard Analysis (AHA)	1.9	G												
			Crane Critical Lift Plan	1.8.1	G												
			Crane Operators	1.6.1.3	G												

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		01 35 26	SD-06 Test Reports														
			Notifications and Reports	1.13													
			Accident Reports	1.13.2	G												
			Crane Reports	1.13.3													
			SD-07 Certificates														
			Confined Space Entry Permit	1.10													
			Hot work permit	1.10													
			License Certificates	1.15													
			Contractor Safety Self-Evaluation Checklist	1.4	G												
			Certificate of Compliance	1.13.4													
		01 35 40.00 20	SD-01 Preconstruction Submittals														
			Environmental Protection Plan	1.8	G												
			Instructor Qualifications	1.9.1													
			SD-06 Test Reports														
			Field Quality Control Reports	3.2													
			SD-07 Certificates														
			Environmental Regulatory Requirements	1.6													
			SD-08 Manufacturer's Instructions														
			Material Safety Data Sheets	1.7.1													
			SD-11 Closeout Submittals														
			Training Program	1.9.3													
			Protection of Natural Resources	3.1													
		01 45 00.00 20	SD-01 Preconstruction Submittals														

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		01 45 00.00 20	Construction Quality Control (QC) Plan	1.6.1	G													
			Indoor Air Quality (IAQ) Management Plan	1.18	G													
			Basis of Design and Design Intent	1.10.1														
		01 50 00	SD-01 Preconstruction Submittals															
			Construction site plan	1.3	G													
			Traffic Control Plan	3.3.1	G													
		01 57 19.00 20	SD-01 Preconstruction Submittals															
			Preconstruction Survey	1.5.1	G													
			Solid Waste Management Plan and Permit	3.3	G													
			Regulatory Notifications	1.5.2	G													
			Environmental Protection Plan	1.6	G													
			Storm Water Pollution Prevention Plan	3.1.2.1	G													
			Storm Water Notice of Intent (for NPDES coverage under the general permit for construction activities)	3.1.2.1	G													
			Dirt and Dust Control Plan	3.13.1														
			Contractor Hazardous Material Inventory Log	3.7.1	G													
			SD-06 Test Reports															
			Laboratory Analysis	3.12.2.2														

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		01 57 19.00 20	Disposal Requirements	3.14.2													
			Erosion and Sediment Control	3.1.2													
			Inspection Reports														
			Storm Water Inspection Reports for General Permit	3.1.2													
			Solid Waste Management Report	3.3.1	G												
			SD-07 Certificates														
			Contractor 40 CFR employee training records	1.5.5	G												
			ECATTS certificate of completion	1.4.1													
			SD-11 Closeout Submittals														
			Storm Water Pollution Prevention Plan compliance notebook	3.1.2.2	G												
			Waste Determination Documentation	3.4													
			Disposal Documentation for Hazardous and Regulated Waste	3.3.2.1													
			Contractor 40 CFR Employee Training Records	1.5.5													
			Solid Waste Management Permit	3.3													
			Solid Waste Management Report	3.3.1													
			Contractor Hazardous Material Inventory Log	3.7.1	G												
			Hazardous Waste/Debris Management	3.12.2													
			Regulatory Notifications	1.5.2													

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		01 58 00	SD-02 Shop Drawings preliminary drawing indicating layout and text content	1.4.1	G												
		01 62 35	SD-01 Preconstruction Submittals Biobased Products	1.7	G												
		01 74 19	SD-01 Preconstruction Submittals Waste Management Plan Solid Waste Management Report Construction Waste Management Report	1.5 1.6 1.7	G G G												
		01 78 00	SD-03 Product Data As-Built Record of Equipment and Materials Warranty Management Plan Warranty Tags Final Cleaning Spare Parts Data SD-08 Manufacturer's Instructions Preventative Maintenance Condition Monitoring (Predictive Testing) Inspection Instructions SD-10 Operation and Maintenance Data	1.3.3 1.6.1 1.6.4 1.8 1.4 1.5 1.5 1.5 1.6.1													

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		01 78 00	Operation and Maintenance Manuals	1.7													
			SD-11 Closeout Submittals														
			Record Drawings	1.3.2													
			Complete Record Documentation	1.3.1													
			Interim Form DD1354	1.9	G												
			Checklist for Form DD1354	1.9	G												
			NAVFAC Sustainable & Energy Data Record Card	1.10	G												
		01 78 24.00 20	SD-10 Operation and Maintenance Data														
			Training Plan	3.1.1	G												
			Training Outline	3.1.3	G												
			Training Content	3.1.2	G												
			SD-11 Closeout Submittals														
			eOMSI, Preliminary Submittal	1.3.1	G												
			eOMSI, Prefinal Submittal	1.3.2	G												
			eOMSI, Final Submittal	1.3.3	G												
			Training Video Recording	3.1.4	G												
			Validation of Training Completion	3.1.6	G												
		01 78 30.01 23	SD-11 Closeout Submittals														
			GIS Data Deliverables	1.3.1	G												
		02 41 13	SD-01 Preconstruction Submittals														
			Existing Conditions	1.10	G												
			SD-07 Certificates														
			Demolition Plan	1.2.1	G												

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		02 41 13	Notification	1.6	G												
			SD-11 Closeout Submittals														
			Receipts	3.3.3													
		02 82 16.00 20	SD-03 Product Data														
			Local exhaust equipment	3.1.4	G												
			Vacuums	3.1.5	G												
			Respirators	3.1.1.1	G												
			Pressure differential automatic recording instrument	3.1.4	G												
			Amended water	1.2.2	G												
			Glovebags	3.1.7	G												
			Material Safety Data Sheets (MSDS) for all materials	1.3.8	G												
			Encapsulants	2.1	G												
			SD-06 Test Reports														
			Air sampling results	1.5.5	G												
			Pressure differential recordings for local exhaust system	1.5.6	G												
			Asbestos disposal quantity report	3.3.3.2	G												
			Clearance sampling	3.2.6.3	G												
			SD-07 Certificates														
			Asbestos hazard abatement plan	1.3.9	G												
			Testing laboratory	1.3.10	G												
			Private qualified person documentation	1.5.1	G												
			Contractor's license	1.5.4	G												

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																		(g)
		02 82 16.00 20	Competent person	1.5.2	G													
			Worker's license	1.5.3	G													
			Landfill approval	1.3.11	G													
			Employee training	1.3.3	G													
			Medical certification	1.3.12	G													
			Waste shipment records	1.3.11	G													
			Respiratory Protection Program	1.3.6	G													
			Delivery tickets	1.3.11	G													
			Vacuums	3.1.5	G													
			Water filtration equipment	3.1.2.3	G													
			Ventilation systems	3.1.5	G													
			equipment used to contain airborne asbestos fibers	3.1	G													
			encapsulants	2.1	G													
			Notifications	1.3.4														
			SD-11 Closeout Submittals															
			Notifications	1.3.4	G													
			Rental equipment	1.6.1	G													
			Respirator program records	1.3.6.1	G													
			Permits and licenses	1.3.4	G													
		02 83 13.00 20	SD-01 Preconstruction Submittals															
			Occupational and Environmental Assessment Data Report	1.5.2.3	G													
			Lead Compliance Plan	1.5.2.2	G													
			Competent Person	1.5.1.1	G													
			Training Certification	1.5.1.2	G													

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		02 83 13.00 20	lead waste management plan	1.5.2.8	G												
			written evidence	3.5.2.1	G												
			Medical Examinations	1.5.2.4	G												
			SD-06 Test Reports														
			sampling results	1.5.2.3	G												
			Occupational and Environmental Assessment Data Report	1.5.2.3	G												
			SD-07 Certificates														
			Testing laboratory	1.5.1.3	G												
			Third party consultant qualifications	1.5.1.4	G												
			Clearance Certification	3.5.1.1	G												
			SD-11 Closeout Submittals														
			hazardous waste manifest	3.5.2.1	G												
			turn-in documents or weight tickets	3.5.2.1	G												
		02 84 16	SD-07 Certificates														
			Qualifications of CIH	1.8.1	G												
			Training Certification	1.8.1	G												
			PCB and Lamp Removal Work Plan	1.8.2	G												
			PCB and Lamp Disposal Plan	1.8.3	G												
			SD-11 Closeout Submittals														
			Transporter certification	3.5.2	G												
			Certification of Decontamination	3.2.4													

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		02 84 16	Certificate of Disposal and/or recycling	3.5.2.1														
		03 30 53	SD-02 Shop Drawings															
			Installation Drawings	1.6														
			SD-03 Product Data															
			Air-Entraining Admixture	2.1.3.1														
			Accelerating Admixture	2.1.3.2														
			Water-Reducing or Retarding Admixture	2.1.3.3														
			Curing Materials	2.1.11														
			Expansion Joint Filler Strips, Premolded	2.1.6														
			Joint Sealants - Field Molded Sealants	2.1.7														
			Batching and Mixing Equipment	3.1.4.3														
			Conveying and Placing Concrete	3.2														
			Formwork	2.1.8														
			Forms	2.3														
			Ready-Mix Concrete	2.2														
			Mix Design Data	2.2														
			Air-Entraining Admixtures	2.2														
			Fly Ash	2.2														
			Accessories	2.4														
			Curing Compound	2.4.1														
			SD-06 Test Reports															
			Concrete Mixture Proportions	1.4.3														

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																		(g)
		03 30 53	Compressive Strength Testing	3.9														
			Slump	3.9														
			SD-07 Certificates															
			Cementitious Materials	2.1.1														
			Aggregates	2.1.2														
			Bill of Lading	2.2														
		26 08 00	SD-06 Test Reports															
			Acceptance tests and inspections	3.1	G													
			SD-07 Certificates															
			Qualifications	1.4.1	G													
			Acceptance test and inspections procedure	1.4.3	G													
		26 12 21	SD-02 Shop Drawings															
			Pad-mounted transformer drawings	1.5.1	G													
			SD-03 Product Data															
			Single-phase pad-mounted transformers (dead-front)	2.2	G													
			SD-06 Test Reports															
			Acceptance checks and tests	3.7.1	G													
			SD-07 Certificates															
			Transformer efficiencies	2.2.2.1	G													
			SD-09 Manufacturer's Field Reports															
			design tests	2.9.3	G													
			routine and other tests	2.9.4	G													

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		26 12 21	SD-11 Closeout Submittals															
			Transformer test schedule	2.9.1	G													
		26 20 00	SD-02 Shop Drawings															
			Panelboards	2.7	G													
			SD-03 Product Data															
			Circuit breakers	2.7.3	G													
			Surge protective devices	2.12	G													
			SD-06 Test Reports															
			600-volt wiring test	3.5.2	G													
			Grounding system test	3.5.4	G													
		26 56 00	SD-01 Preconstruction Submittals															
			Photometric Plan	1.5.2	G													
			LED Luminaire Warranty	1.7.1	G													
			SD-02 Shop Drawings															
			Luminaire drawings	1.5.1.1	G													
			Poles	1.5.1.2	G													
			SD-03 Product Data															
			Luminaire Light Sources	2.2.2	G													
			Luminaire Power Supply Units (Drivers)	2.2.3	G													
			Time switch	2.3.1	G													
			Aluminum poles	2.4.1	G													
			LED LUMINAIRES	2.2	G													
			SD-05 Design Data															
			Design Data for luminaires	1.5.3	G													
			SD-06 Test Reports															

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		26 56 00	LED Luminaire - IES LM-79 Test Report	1.5.4	G													
			LED Light Source - IES LM-80 Test Report	1.5.5	G													
			Operating test	3.2														
			SD-07 Certificates															
			Luminaire Useful Life Certificate	1.7.1	G													
		31 00 00	SD-01 Preconstruction Submittals															
			Dewatering Work Plan	1.5.3	G													
			SD-03 Product Data															
			Utilization of Excavated Materials	3.9	G													
			Rock Excavation	1.5.1.2														
			Opening of any Excavation or Borrow Pit	3.4														
			Shoring	3.5														
			SD-06 Test Reports															
			Testing	3.16														
			Borrow Site Testing	2.1														
			SD-07 Certificates															
			Testing	3.16														
		32 12 17	SD-04 Samples															
			Bituminous pavement	1.3.2														
			SD-05 Design Data															
			Job-mix formula	1.3.3														
			ASPHALT CEMENT BINDER	2.2														
			MIX DESIGN	2.3														

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		32 12 17	SD-06 Test Reports														
			Specific gravity test of asphalt	2.5.1													
			Coarse aggregate tests	2.5.1													
			Weight of slag test	2.5.1													
			Percent of crushed pieces in gravel	2.5.1													
			Fine aggregate tests	2.5.1													
			Specific gravity of mineral filler	2.5.1													
			Bituminous mixture tests	2.5.1													
			Aggregates tests	3.5.2.1													
			Bituminous mix tests	3.5.2.2													
			Pavement courses	3.5.2.3													
		32 15 00	SD-03 Product Data														
			Equipment	1.4.4													
			SD-06 Test Reports														
			Sampling and Testing	1.4													
			Density Tests	3.12													
		32 16 13	SD-03 Product Data														
			Concrete	2.1													
			SD-06 Test Reports														
			Field Quality Control	3.8													
		32 17 23.00 20	SD-03 Product Data														
			Paints for roads and streets; G	2.1.1													
			High Build Acrylic Coating (HBAC)	2.1.2													
			Qualifications	1.8													

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		32 17 23.00 20	SD-06 Test Reports															
			Paints for roads and streets;G	2.1.1														
			SD-07 Certificates															
			Paints for roads and streets;G	2.1.1														
			Volatile Organic Compound	3.5														
			SD-08 Manufacturer's Instructions															
			Paints for roads and streets;G	2.1.1														
		32 92 19	SD-03 Product Data															
			Fertilizer	2.4														
			SD-06 Test Reports															
			Topsoil Composition Tests	2.2.3														
			SD-07 Certificates															
			seed	2.1														
		32 92 23	SD-03 Product Data															
			Fertilizer	2.4														
			SD-06 Test Reports															
			Topsoil composition tests	2.2.3														
			SD-07 Certificates															
			sods	2.1														
		33 40 00	SD-03 Product Data															
			Placing Pipe	3.3	G													
			SD-04 Samples															
			Pipe for Culverts and Storm Drains	2.1														
			SD-07 Certificates															
			Pipeline Testing	3.8														

