

ADDENDUM NO.: 3

DATE OF ADDENDUM: 10/30/14

**Utility and Infrastructure Improvements
Camp Hartell
Windsor Locks, CT
BI – Q – 662**

Original Bid Due Date / Time:

November 5, 2014

1:00 PM

Previous Addendums: Addendum No.1 – 10/16/14, Addendum No.2 – 10/23/14

TO: Prospective Bid Proposers:

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated August 8, 2014. Prospective Bid Proposers shall acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form. Failure to do so may subject Bid Proposers to disqualification.

The following clarifications are applicable to questions received from bidders through October 29, 2014

ITEMS REFERRING TO SHEET C2.02

Item 1

Question 1: On drawing C2.02, building is being demolished by other. Is the foundation for this structure being removed & in-filled by others also?

Response: Yes. The foundation for this structure is being removed and in-filled by others.

Item 2

Question 2: On drawing SV.03 shows a concrete pad and a shed that are in the new roadway shown on drawing C2.02. Are these items being demolished by others, or is contractor responsible for removing?

Response: No. The structures are to be removed by owner.

ITEMS REFERRING TO SHEET C3.01

Item 1

Clarification of notation.

REVISE: Revise note "CONNECT NEW PIPE SECTION TO EXISTING 8" W/ SOLID SLEEVE CONNECTOR OR BOLTED TRANSITION" to "CONNECT NEW PIPE SECTION TO EXISTING 8" W/ SOLID SLEEVE CONNECTOR".



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ITEMS REFERRING TO SHEET C3.02

Item 1

Clarification of notation.

REVISE: Revise note "10" D.I. CAP" to "CONNECT TO EXISTING 10" D.I. W/ SOLID SLEEVE CONNECTOR"

Item 2

Clarification of notation.

REVISE: Revise note "6" D.I. CAP" to "CONNECT TO EXISTING 6" D.I. W/ SOLID SLEEVE CONNECTOR"

Item 3

Clarification of notation.

REVISE: Revise note "CONNECT NEW PIPE SECTION TO EXISTING 8" W/ SOLID SLEEVE CONNECTOR OR BOLTED TRANSITION" to "CONNECT NEW PIPE SECTION TO EXISTING 8" W/ SOLID SLEEVE CONNECTOR".

Item 4

Clarification of notation.

REVISE: Revise note "6"x12"x12" D.I. TEE" TO "8"x12"x12" D.I. TEE"

Item 5

Clarification of notation.

REVISE: Revise note "6" CLASS 52 CEMENT LINED DUCTILE IRON PIPE MIN. DEPTH OF COVER 4.5'" to "8" CLASS 52 CEMENT LINED DUCTILE IRON PIPE MIN. DEPTH OF COVER 4.5'"

Item 6

Clarification of 8" stub at Sta. 12+15.

ADD: Add 12" gate valves to the east and west legs of the 8"x12"x12" tee. Add an 8" gate valve to the southern leg of the 8"x12"x12" tee. Add an 8" cap with a blow off at the end of the 8" stub.

ITEMS REFERRING TO SHEET C3.03

Item 1

Clarification of notation.

REVISE: Revise note "CONNECT NEW PIPE SECTION TO EXISTING 8" W/ SOLID SLEEVE CONNECTOR OR BOLTED TRANSITION" to "CONNECT NEW PIPE SECTION TO EXISTING 8" W/ SOLID SLEEVE CONNECTOR ONLY".



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ITEMS REFERRING TO SHEET C4.04

Item 1

Question 1: Refer to plan sheet C4.04, the areas specified for replanting new grass at the locations where there is presently grass cover. Please provide a detailed scope of work for this area? (i.e. Is the contractor stripping and removing the existing grass and topsoil completely? Can the contractor reuse the existing topsoil?)

Response: Areas are highlighted to make sure turf establishment is present. The contractor will need to remove existing ground cover prior to establishing new turf. The contractor will be required to fill in any excessive depressions. Topsoil is available on site for the contractors use.

ITEMS REFERRING TO SHEET C8.01

Item 1

Question 1: Is this contract responsible for removing the existing 5k overhead after the completion of the CSMS Project per note shown on the drawing?

Response: Yes, the contractor is responsible for removing the existing 5k overhead distribution after the completion of the CSMS Project per note.

Item 2

Question 2: Are the utilities responsible for installing communications cabling from the CL&P riser pole to the building in the proposed duct bank.

Response: Yes, utilities are responsible for this work.

Item 3

Question 3: A note on drawing E8.01 indicates that overhead communication lines are to be removed between the existing CL&P pole and a pole adjacent to building P123. At the pre-bid, meeting reference was made to overhead power lines, communication lines, and utility poles being removed, however this is not shown on the drawings. Please advise if the communications lines are the only overhead utilities being removed in this project.

Response: Yes, the contractor is responsible for removing the existing 5k overhead distribution after the completion of the CSMS Project per note.

ITEMS REFERRING TO SHEET C8.02

Item 1

Question 1: A note on drawing E8.02 indicates that the new site lighting fixtures, poles, and bases will be provided by others. Will they be installed by others as well or are we responsible for the installation?



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Response: Contractor will be responsible for all aspects of the installation, including all materials, as indicated under Supplemental Bid #1 (see Drawing C1.00). The light fixture, or approved equal, is listed on Drawing C6.01.

Item 2

Question 2: Drawing E8.02 calls out for medium voltage cables MV-105 for the power wiring in the (2) 5" conduits but do not mention the size of the wire. Please advise.

Response: At the callout to the "New Primary Electrical Ductbank" change the callout to read: "NEW PRIMARY ELECTRICAL DUCTBANK WITH (2)-5" C. PROVIDE 3-1/C TRIPLEXED #1 AWG (19 STRANDS) ALUMINUM CONDUCTOR, 25KV CABLE WITH: 100% 260 MILS EPR INSULATION; (6) #14 CONCENTRIC ONE THIRD NEUTRAL CONDUCTORS; 50 MILS POLYETHYLENE (PE) OUTER JACKET WITH (3) RED STRIPES; AND (1) #2 (7 STRAND) EXTERNAL COPPER GROUND IN EACH CONDUIT. VERIFY EXISTING CAMPUS PRIMARY DISTRIBUTION CABLING PRIOR TO ORDERING AND MATCH."

See attachment for new specification "Section 260513 - Medium Voltage Cables".

ITEMS REFERRING TO SHEET C8.04Item 1

Question 1: Is this contract required to return to the site at a later date to transfer power to the new service equipment on Bldg. P100 once the transformer and pad provided under a separate contract is installed?

Response: Yes. The contractor is required to return at a later date to transfer power to the new service equipment on Bldg. P100.

ADDITIONAL ITEMSItem 1

Clarification of Details.

ADD: See 8.5" x 11" attachments for standard catch basin and HDPE details.

Item 2

Clarification of Scale.

ADD: Scale is 1" = 40' on all drawings.

Item 3

Question 1: Looking at the drawings, it appears the existing pavement is to be left in-place as there is no reference to removing & disposing of it. Please clarify.



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Response: Existing pavement should be removed and disposed of by the contractor for new roadway areas.

Item 4

Question 2: There are notes to "Abandon Manholes". Is there any specific requirements with abandoning these structures? In other words, are we to demolish or fill the structures with fill?

Response: Fill the structures with gravel fill.

Item 5

Question 3: Note #2 on C2.01 refers to "Bituminous Concrete Driveways are to be left with binder course only" please clarify, as the driveways are part of the new roadway or; is the whole roadway to left binder.

Response: Driveways shown will be left at binder course. Roadway will receive top course up to gutter line/ edge of road.

Item 6

Question 4: If the roadway is to be left all binder (per #3 above), would responsibility of the finish coarse still be part of this project?

Response: Roadway will receive top course as part of this contract.

Item 7

Question 5: Notes on drawings E8.02 and E8.04 call for the new high voltage cable to be capped and looped in three electrical manholes. Is this still the intent or are we responsible for high voltage splicing and connections?

Response: The intent is to cap and loop the high voltage cable for future network extensions.

Item 8

Question 6: Refer to Clarence Welti Geotechnical Report dated June 18th, 2012. At the bottom of the first page, the report states that there is an existing vapor recovery system at the proposed guard house which appears to include a series of drilled wells. Please confirm that the recovery system and wells have been removed and isn't included in this contract.

Response: Vapor recovery system will be removed by owner prior to planting of this area.

Item 9

Question 7: Please confirm that the owner will be responsible for all CNG fees for this contract. If not, please provide an allowance to the contractor.

Response: All fees to be paid by the contractor.



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Item 10

Question 8: Please confirm that the owner will be responsible for all CL&P fees for this contract. If not, please provide an allowance to the contractor.

Response: All fees to be paid by the contractor.

Item 11

Question 9: Is the contractor removing the existing bituminous concrete, at approx. station 8+00 thru station 21+00, in the new areas where the new roadway and old roadway are not in the same location or is that being removed under a different contract? (i.e. The CSMS building contract)

Response: No the contractor is not removing existing bituminous concrete outside the new roadway. This will be handled in a separate contract.

Item 12

Question 10: The plans specify approx. 650 linear feet of gas pipe to be excavated and backfilled by the contractor. However the summary of work in the project specification specifies 2,050 linear feet of pipe. Please confirm that the contractor is providing approx. 650 linear feet of trenching for the proposed gas pipe.

Response: The contractor is providing approximately 612 linear feet of trenching for gas pipe. The quantity listed in the project specification is incorrect.

Item 13

Question 11: Specifications 01 81 13 Sustainable Design Requirements and 01 91 00 Commissioning are listed in the table of contents, however the two spec sections are not included in the spec book. Please provide a copy of each section to the contractor if they are required.

Response: These sections are not part of this project.

Item 14

Question 12: Can the contractor use the sidewalls of the excavated trench for the formwork on the proposed concrete ductbanks?

Response: Sidewalls of the trench are acceptable as use for the formwork for the duct banks; however, all reinforcement, leveling pads, and backfill shall be in accordance with the contract documents and details.

Item 15

Question 13: Are we responsible for working with the Gas Company for the excavation and backfill only? Gas Company will tie-in & install pipe.

Response: Yes. Contractor is responsible for working with the Gas Company for the excavation and backfill only.

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Item 16

Question 14: Will CT Water be responsible for the Tap?

Response: Yes. CT Water be responsible for the Tap.

Item 17

Question 15: Is there a legend for the abbreviations used on the drawings?

Response: Legend is not available. Abbreviations are standard.

Item 18

Question 16: Drawings E8.01, E8.02, and E8.04 reference fiber optic cable and 24 pair plant copper cable being installed in the new telecommunications duct bank. Specifications section 338000 3.03 (c) 2 states that the cables will be furnished and installed by the utility companies which is not consistent with statements made at the pre-bid meeting. Please advise who is to furnish and install these cables and who is responsible for the terminations.

Response: Contractor shall furnish and install all cable.

Item 19

Clarification on CL&P riser pole.

Comment: Please specify size on the number of conduits on CL&P riser pole.

ADD: At the callout to the "Existing CL&P Pole" at Route 75 change the callout to read: "EXISTING CL&P POLE, PROVIDE (2)-4" AND (2)-2" TELECOMMUNICATIONS POLE RISERS. RISERS SHALL BE RGS CONDUIT WITH LONG RADIUS SWEEPS. COORDINATE RISER REQUIREMENTS WITH THE UTILITIES FOR AT&T FIBER AND COPPER, COX CABLE AND THE STATE'S E911 SYSTEM FIBER."

At the callout "2 #4, #4G, 1 1/4" C IN TRENCH" extend leader to underground lighting branch circuit between last two site lighting fixtures shown.

Item 20

Clarification on primary cable.

Comment: Please refer to note for primary cable. The note specifies that conductor material and size to match existing campus primary cable. It is not clear how the contractor can bid without knowing the material and size of primary cable conductor. Please specify size and material on conductor.

ADD: At the callout to the "New Primary Electrical Ductbank" change the callout to read: "NEW PRIMARY ELECTRICAL DUCTBANK WITH (2)-5"C. PROVIDE 3-1/2" TRIPLEXED #1 AWG (19 STRANDS) ALUMINUM CONDUCTOR, 25KV CABLE WITH: 100% 260 MILS EPR INSULATION; (6) #14 CONCENTRIC ONE THIRD NEUTRAL CONDUCTORS; 50 MILS POLYETHYLENE (PE) OUTER JACKET WITH (3) RED STRIPES; AND (1) #2 (7 STRAND) EXTERNAL COPPER GROUND IN EACH CONDUIT. VERIFY EXISTING CAMPUS PRIMARY DISTRIBUTION CABLING PRIOR TO ORDERING AND MATCH."



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Item 21

Clarification on pole lights.

Comment: Sheet C6.01 specifies 2 #12 for pole lights whereas Sheet E8.02 specifies 4#4. Please coordinate

REVISE: Sheet C6.01 should be updated to match E8.02 9conductors sized larger for voltage drop.

Item 22

Replace Specification 260513 – Medium – Voltage Cables with new specification included in this Addendum.

Item 23

Clarification on NAFTA.

Comment: Does this contract meet the North American Free Trade Agreement (NAFTA) on steel products

Answer: Contractor is to follow Article 36 in the General Conditions of the Contract concerning the purchase of ALL material for this contract.

Item 24

REVISE: Section 012100 – Allowances Part F, Allowance Schedule as follows:

Allowances for Utility work:

Gas Company Work (Yankee Gas) - \$20,000.00

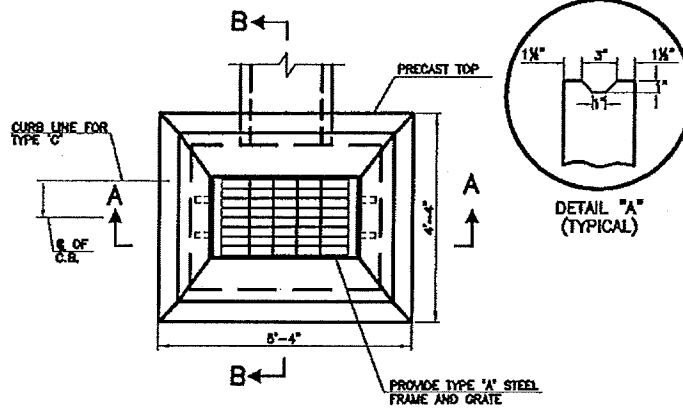
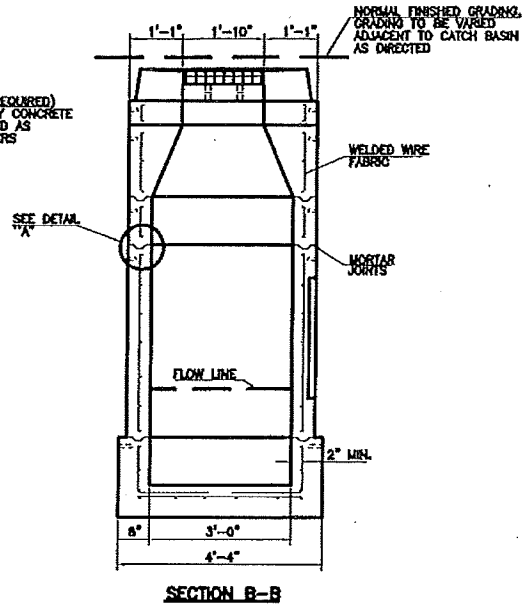
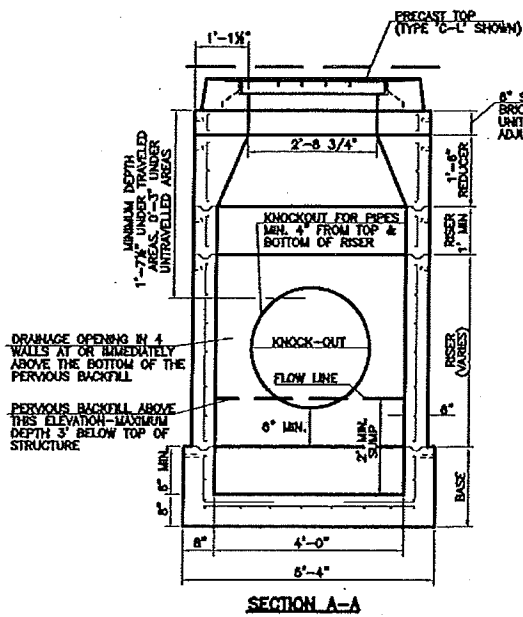
Electric Company (CL&P) - \$10,000.00

Water Company (CT Water) - \$5,000.00

Cable Company (AT&T) - \$10,000.00

End of Addendum


Philip St. Amand, Purchasing Assistant
Department of Administrative Services
On Behalf of the Department of Construction Services

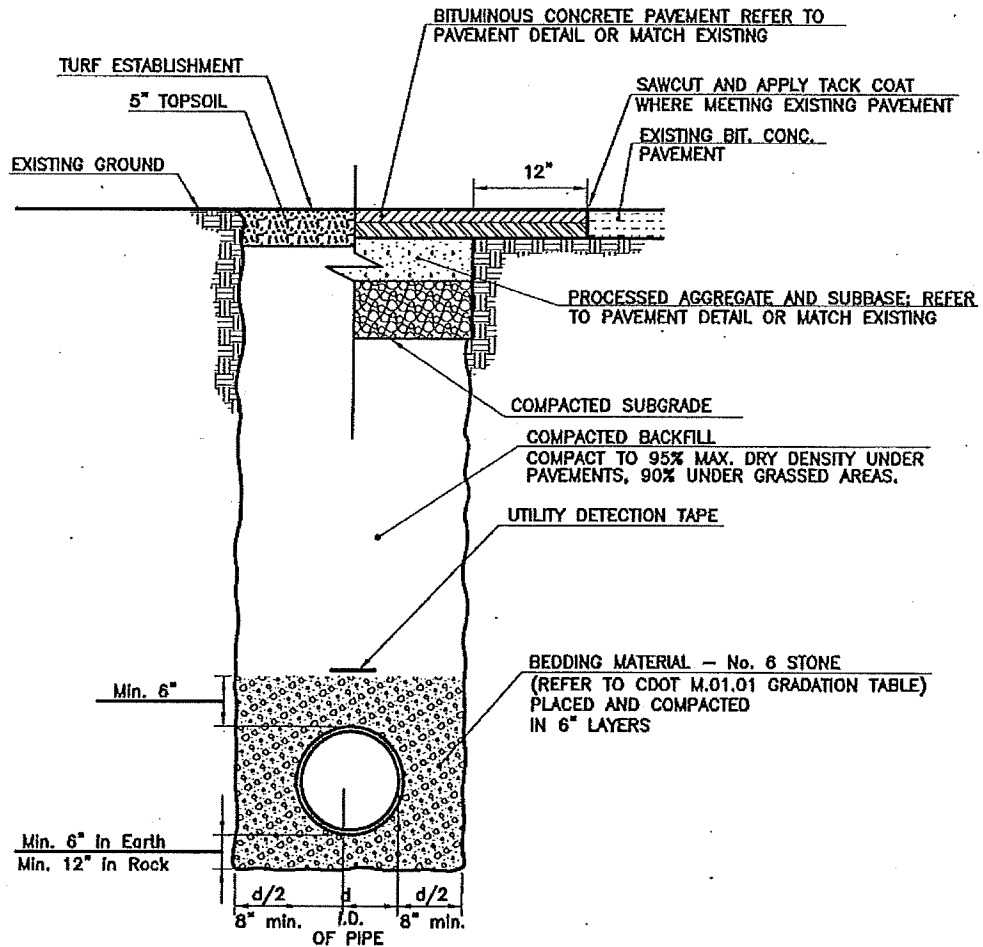


NOTES


1. WHERE A PRECAST CONCRETE UNIT IS USED FOR THE SUMP, THE TOP FOR THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.
2. FOR DETAILS OF FRAMES AND GRATES, SEE CONN. DOT STANDARD SHEET 507-K.
3. THE WALLS OF ALL CATCH BASINS OVER 10 FT. DEEP TO BE INCREASED TO 12" THICKNESS, WHILE INSIDE DIMENSIONS TO REMAIN THE SAME.

① PRECAST CATCH BASIN - TYPE "C" OR "C-L"

DRAWING TITLE			CATCH BASIN DETAIL		
PROJECT TITLE			DRAWN BY		
UTILITY AND INFRASTRUCTURE IMPROVEMENTS			JMM		
CAMP HARTELL			DATE		
WINDSOR LOCKS, CONNECTICUT			08/28/14		
PROJECT NO. 70024.00			SHEET NO.		
SCALE N.T.S.			SK-01		
REFERENCE			 benesch engineers • scientists • planners		



② **HDPE STORM SEWER TRENCH DETAIL**
N.T.S.

DRAWING TITLE HDPE PIPE DETAIL			
PROJECT TITLE UTILITY AND INFRASTRUCTURE IMPROVEMENTS CAMP HARTELL WINDSOR LOCKS, CONNECTICUT		 benesch engineers · scientists · planners	DRAWN BY JMM
PROJECT NO. 70024.00			DATE 08/28/14
SCALE N.T.S.	REFERENCE	SHEET NO. SK-02	

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Medium voltage cable.
 - 2. Fireproofing tape.
- B. Related Sections:
 - 1. Section 31 23 133 – Trenching and Backfilling: Execution requirements for trenching and backfilling required by this section.
 - 2. Section 33 71 19 – Electrical Underground Ducts and Handholes: Requirements for electrical ducts required by this section.

1.2 REFERENCES

- A. International Electrical Testing Association:
 - 1. NETA ATS - Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems.

1.3 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit for cable, terminations, and accessories.

1.4 CLOSEOUT SUBMITTALS

- A. Section 01 70 00 - Execution and Closeout Requirements: Closeout procedures.
- B. Project Record Documents: Record actual sizes and locations of cables.
- C. Operation and Maintenance Data: Submit instructions for testing and cleaning cable and accessories.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Product storage and handling requirements.
- B. Protect cable ends from entrance of moisture.

PART 2 PRODUCTS

2.1 MEDIUM VOLTAGE CABLE

- A. Manufacturers:
 - 1. The Okonite Company
 - 2. The Kerite Company
 - 3. Southwire
 - 4. Substitutions: Section 01 60 00 - Product Requirements.
- B. Voltage: 25 kV.
- C. Insulation Level: 100 percent.
- D. Cable Continuous Operating Temperature Rating: 90°C.
- E. Configuration: Concentric neutral, triplexed with ground.
- F. Conductor Material:
 - 1. Primary – 19 stranded aluminum.
 - 2. Neutral – concentric #14 copper.
 - 3. Ground – 7 strand copper.
- G. Conductor Construction: Stranded (solid round neutral).
- H. Conductor Shield: Non-conducting, continuous.
- I. Non-Armor Jacket: Non-conducting Polyethylene, with (3) red stripes.

2.2 FIREPROOFING TAPE

- A. Manufacturers:
 - 1. 3M Electrical Products Division
 - 2. Plymouth Rubber Co., Bishop Division
 - 3. Substitutions: Section 01 60 00 - Product Requirements.
- B. Product Description: Flexible, conformable fabric, coated on one side with flame retardant, flexible polymeric or chlorinated elastomer. Non-corrosive to and compatible with cable sheaths jackets. Does not support combustion.
- C. Width: Approximately 3 inches (76 mm).
- D. Thickness: Not less than 0.03 inch (0.76 mm).
- E. Weight: Not less than 2.5 pounds per square yard (1.4 kilogram per square meter).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.
- B. Verify excavations are to required grade, dry, and not over-excavated.
- C. Verify duct and manholes are ready to receive cable.
- D. Verify routing and termination locations of cable prior to rough-in.

3.2 PREPARATION

- A. Use swab to clean conduits and ducts before pulling cables.

3.3 EXISTING WORK

- A. Remove abandoned medium-voltage cable.
- B. Maintain access to existing medium-voltage cable and other installations remaining active and requiring access. Modify installation or provide access panel.
- C. Extend existing medium-voltage cable installations using materials and methods compatible with existing electrical installations.
- D. Clean and repair existing medium-voltage cable to remain or to be reinstalled.

3.4 INSTALLATION

- A. Avoid abrasion and other damage to cables during installation.
- B. Use suitable manufacturer approved lubricants and pulling equipment.
- C. Sustain cable pulling tensions and bending radii below manufacturer's recommended limits.
- D. Ground cable shield at each termination and splice.
- E. Install cables in manholes along wall providing longest route.
- F. Arrange cable in manholes to avoid interference with duct entrances.

3.5 FIREPROOFING

- A. Apply fireproofing tape to cables when installed in manholes, cable rooms, pull boxes, or other enclosures.
- B. Smooth out irregularities, at splices or other locations, with insulation putty before applying fireproofing tape.

- C. Apply fireproofing tape tightly around cables spirally in half-lapped wrapping or in butt jointed wrapping with second wrapping covering joints first.
- D. Extend fireproofing 1 inch into conduit or duct.
- E. Install tape with coated side toward cable.
- F. Install random wrappings of plastic tape around fireproofing tape to prevent unraveling.
- G. Install fireproofing to withstand a 200 Ampere arc for 30 seconds.

3.6 FIELD QUALITY CONTROL

- A. Section 01 70 00 - Execution and Closeout Requirements: Field inspecting, testing, adjusting, and balancing.
- B. Inspect exposed cable sections for physical damage.
- C. Inspect cable for proper connections.
- D. Inspect shield grounding, cable supports, and terminations for proper installation.
- E. Inspect and test in accordance with NETA ATS, except Section 4.
- F. Perform inspections and tests listed in NETA ATS, Section 7.3.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

- A. Section 01 70 00 - Execution and Closeout Requirements: Protecting installed construction.
- B. Protect installed cables from entrance of moisture.

END OF SECTION