



ADDENDUM NO.4

PROJECT: Cumru Fire Department

MWS PROJECT NO: 18-036

ADDRESS: 1775 Welsh Road
Mohnton, PA 19540

DATE: 1/24/2024

The following changes shall be incorporated into the work in accordance with all general requirements as if incorporated in the original documents.

CHANGES TO DRAWINGS:

1. Add drawing 166.5 – CONSTRUCTION PLAN FILL GRADING AND STABILIZATION CUMRU TOWNSHIP SPOILS STOCKPILE LOCATION, dated 01/23/24 to the construction drawing set.

CHANGES TO SPECIFICATIONS:

1. Add specification 10 1419 - DIMENSIONAL LETTER SIGNAGE, Addendum #4, dated 1/24/2024.
2. Delete section 09 7813 – METAL INTERIOR WALL PANELS.
3. Delete specification section 10 7516 – GROUND-SET FLAGPOLES.
4. Modify the Bid Form for Contract 1A to the following:
 - Line 12, “15 INCH PVC FROM 0 FEET DEEP TO 6 FEET DEEP,” quantity has been reduced from 9 to 0.
 - Line 14, “15 INCH SLCCP FROM 0 FEET DEEP TO 6 FEET DEEP,” quantity has been increased from 292 to 301.
 - Line 13, “18 INCH PVC FROM 0 FEET DEEP TO 6 FEET DEEP,” quantity has been reduced from 26 to 0.
 - Line 15, “18 INCH SLCCP FROM 0 FEET DEEP TO 6 FEET DEEP,” quantity has been increased from 64 to 90.
 - Line 20, “YARD DRAIN INLET AND GRATE,” quantity has been increased from 3 to 5.

BIDDER QUESTIONS & RESPONSES:

1.)QUESTION: Please provide spec for site township sign (2/148)

RESPONSE: See specification 10 1419 - DIMENSIONAL LETTER SIGNAGE, included within this addendum.

2.)QUESTION: Is it accurate that subcontractors have to be covered separately by Professional liability and contractors' pollution liability insurance?

RESPONSE: Subcontractors shall be required to provide contractor's pollution liability coverage as requested in the specifications. Professional liability shall be required by subcontractors in the event that the subcontractor is providing any form of professional services such as signed and sealed drawings such as those drawings relate to submittal and or shop drawing generation.

3.) QUESTION: Is the GC supposed to carry Professional liability insurance, if so why is that case if we are not having to have anything engineered? Please advise.

RESPONSE: The prime contractors are required to provide Professional Liability coverage. See response #2 for additional information.

4.) QUESTION: I got this email from Kirei (Manufacture), SP-2 wall panels for the project. Due to the size of our raw material, the maximum length we can fabricate is 108", and the maximum width is 46". With that being said, for your quote, can we adjust the size to a 23" x 108"? This would be a much better yield than a 24" W. Please advise.

RESPONSE: This is acceptable.

5.) QUESTION: For the foundation drain, please provide tie in or daylight point.

RESPONSE: Foundation drain may tie into the downspout leaders at the clean out locations.

6.) QUESTION: There is a foundation drain shown against the building on the bollard detail and also in a couple places in the structural but I see no layout or detail for it. Is a foundation drain required for the building? If so can a detail showing size of stone envelope & pipe size be provided as well as a layout showing any tie in or daylight points?

RESPONSE: Foundation drainage piping detail can be found on A405. Drain may tie into the downspout leaders at any cleanout location. Drain tile size shall be 6" diameter or size indicated within geotechnical report, which ever is greater.

7.) QUESTION: Plumbing site plan view shows 4" diameter roof leader stubs, civil shows 6", which is correct? I cannot find a specified model of cast iron downspout boot anywhere, can desired make and model be provided?

RESPONSE: 6". See plumbing drawings for cast iron boot basis of design.

8.) QUESTION: The storm sewer Chart on page 148.5 alludes to 12" diameter & larger storm pipe being SLCPP (HDPE) but plan views (and bid form) call out 12" PVC , 15" PVC, 18" PVC for storm pipe in a few areas, and SLCPP (HDPE) in most areas...Can the same material be used for all storm sewer piping in lieu of differing pipe materials?

RESPONSE: All storm pipe over 12 inch in diameter shall be SLCPP. 12 inch shall remain as PVC. The bid form has been updated to remove 18" and 15" PVC. The quantities have been added to the appropriate SLCPP line items.

9.) **QUESTION:** There is a plan note on pg. 5 of civil plans requiring as-builts to be provided...can this simply be red lined plan set? If not what exactly is required, level of detail, format etc.?

RESPONSE: Red-lined plans are acceptable.

10.) **QUESTION:** Detail 16 /148.1 Note #4 alludes to adding 2a stone subbase to existing stone area in order to reach the planned top of subbase elevations for the concrete paving (no required thickness of subbase is shown on detail). Per the grading plan, the western firetruck driveway will require adding up to 2 feet +/- of stone to reach planned subgrade. Is this the intent? Or on site excavated material from basins / building foundations be used to raise existing grade to planned subgrade elevation then stone subbase (of yet to be determined thickness) Be installed on top of soil subgrade? If so what is the design subbase thickness?

RESPONSE: Yes, the intent is to utilize 2a stone to achieve subgrade elevation. Use of excavated materials is not permitted. These areas were previously backfilled with approximately 2' of 2A Modified stone during phase #1 of the project.

11.) **QUESTION:** Please provide detail for "6" perforated u-drain" shown on pg 148.5, also specify what pay item this should be included in. Please also confirm this perforated u drain is in addition to the retaining wall subdrainage piping below as shown on detail 6/148.4 .

RESPONSE: 6" perforated u-drain is NOT a separate line from the retaining wall subdrainage piping. The Yard Drains will outlet into the u-drain which then outlets into the storm drainage system.

12.) **QUESTION:** Is the Township owned dump site on Cedar Top Rd available for use in disposing of excess fill material / spoils, unsuitable soils ? If so, are there any specific requirements that go along with using the area (push off, erosion control, seeding, etc.?) ?

RESPONSE: Yes, the Township owned site is ended to be used. NO MILLINGS. The contractor(s) would be required to be a co-permittee on the NPDES permit.

13.) **QUESTION:** Section C-C detail page 183.5 calls out LLDPE (linear low density polyethylene) geomembrane for the underground basin. I see no mention of an impervious liner for the underground basin anywhere else,. Please confirm an impervious liner is NOT required .

RESPONSE: An impervious liner is NOT required for Basin 6.

14.) **QUESTION:** 252" fco letter and logo wall sign, reference page #7 (2/148) over "Cumru FD Specifications - Bid Set - 11-30-2023 pdf file" my question is , is that wall sign FCO acrylic or you want metal. there is no specific material requirement. please let us know. thanks

RESPONSE: See specification 10 1419 - DIMENSIONAL LETTER SIGNAGE, included within this addendum.

15.) **QUESTION:** Section 097813 is included in specifications but i do not see them anywhere on the drawings. SFRP-1 is not included in the finish schedule. Please clarify were interior wall panels are located.

RESPONSE: Delete section 09 7813 – METAL INTERIOR WALL PANELS.

16.) **QUESTION:** On the cleanout detail (14/183.3 in the civil drawings), it has one side where the entire cast iron Cleanout Box gets encased in an 18" x 18" concrete cube, as well as sitting on a concrete collar below the Cast iron box. The other half of the detail shows the cast iron box sitting on a collar and then just the asphalt paving spec around it (no encasement with concrete). Will the concrete encasement (18" x 18" cube) be required in asphalt paving areas or can the box sit on the collar and then just pave around the cleanout box? There are 39 cleanouts for the underground basin so this will make a significant difference in price.

RESPONSE: Concrete encasement around cleanouts is required in all asphalt paving areas.

17.) **QUESTION:** Civil detail (5/148.1) shows a typical painted steel bollard with something 4" attached to it. Architectural detail (6/A900) shows a typical bollard to receive a HDPE sleeve. Which detail is to be used? If the civil detail is correct, what is the 4" circle indicating?

RESPONSE: Typical bollard detail to be used is 6/A900.

18.) **QUESTION:** Please confirm that admixture for WVRA in not required in the concrete slabs. If required, we would utilize the roll on application per alternate 8, correct?

RESPONSE: WVRA admixture is not part of base bid. Included WVRA as required per section 09-0561.13 MOISTURE VAPOR EMISSION CONTROL, within Alternate pricing, per description in section 01 23000 – ALTERNATES.

19.) **QUESTION:** Regarding the type "G2" and G3" door panel elevations on drawing A600. Please confirm if the material below the 8" intermediate rail is to be glass or a flush panel. The elevations do not show what is to be used in the bottom of the doors. Regarding specification section #08 7100.01 Door Hardware Schedule. Hardware set #17. Please confirm the manufacturer and model number of the cylindrical battery-operated cypher lock requested. Is a Sargent Manufacturing KP-10XG77 LL cylindrical battery-operated keypad lock sufficient?

RESPONSE: See Addendum #3 for response to G2/G3 8" intermediate rail materiality. Regarding Hardware Set #17: Sargent Manufacturing KP-10XG77 LL cylindrical battery-operated keypad lock is acceptable as basis of design.

20.) **QUESTION:** Or are these materials permitted to be left at the stock pile area on the opposite side of Welsh Road?

RESPONSE: Materials may be stockpiled in the designated area on the opposite side of Welsh Road for top soil only or at Ashley Run for clean spoils/non-topsoil. A site plan for Ashley Run has been included in this Addendum. Both sites will require the contractor to provide erosion and sediment control measures per the appropriate plans.

21.) QUESTION: Regarding specification section #08 7100.01 Door Hardware Schedule. Hardware set #17. Please confirm the manufacturer and model number of the cylindrical battery-operated cypher lock requested. Is a Sargent Manufacturing KP-10XG77 LL cylindrical battery-operated keypad lock sufficient?

RESPONSE: See response to question 19.

22.) QUESTION: Addendum #2 has a revised spec section 00 44 00 Information furnished by bidder. There are sections for unit prices, but nowhere to fill in these prices on that form or the excel spread sheet for pricing. Please advise on direction.

RESPONSE: Reference, fill out, and return with bid form section 00 4322 - UNIT PRICES FORM as provided in the specifications.

23.) QUESTION: Can a fabric product be selected for the cushions in the Clerestory Corridor to ensure equal bidding? Prices for fabrics have a very wide range.

RESPONSE: Cushion fabric color basis of design: Cast Slate.

24.) QUESTION: Please confirm that the drawing packages titled E&S and PCSM were the drawings used for phase 1 and are for reference only and there is no road work on this project.

RESPONSE: Phase 1 drawings are for reference only. Packages titles E&S and PCSM include both Phase 1 and Phase 2 per permit requirements. Phase 2 drawings from the E&S and PCSM packages are included in the construction set for contractor use.

25.) QUESTION: The finish schedules call for high performance paint with no specifications listed. It actually says TBD and would drastically change pricing from GC to GC with an open spec. High performance coating is a little extreme on the interior for drywall and interior painting when dry fall paint would be the best application. Please advise.

RESPONSE: The finish schedule calls for four different colors high performance coating (HPC-1,2,3,4.) Colors are to be determined. Most areas to receive interior drywall applications will not receive HPC per finish schedule. See specification section 09 9600 – HIGH-PERFORMANCE COATINGS for more information.

26.) QUESTION: Please provide submittal for Gear Rack that GC is installing that owner is supplying.

RESPONSE: Product manufacture and product size of gear rack is listed on A108.

27.) QUESTION: Specification 055000 sections 2.9, 2.12 & 2.13 lists 2 different finishes. Please clarify which is required.

RESPONSE: Section 2.9: Shelf angles located on exterior walls shall be galvanized and field painted. Section 2.12 and 2.13: Exposed Loose bearing plates, leveling plates, and lintels located on the building exterior, or in exterior walls shall be galvanized and field painted to match opening frame color per A600 series details. Non-exposed loose bearing plates, leveling plates, and lintels located in exterior conditions or on exterior walls shall be galvanized. Exposed loose bearing plates, leveling plates, and lintels not located in exterior conditions or within exterior walls shall be primed with zinc-rich primer, per painting specification requirements and made ready to receive field paint.

28.) QUESTION: Regarding specification section #08 7100.01 Door Hardware Schedule. Hardware set #17. Please confirm the manufacturer and model number of the cylindrical battery-operated cypher lock requested. Is a Sargent Manufacturing KP-10XG77 LL cylindrical battery-operated keypad lock sufficient?

RESPONSE: See response to question 19.

29.) QUESTION: the Corbin Russwin CL33800 AC2 cylindrical keypad lock shown in the specifications has been discontinued. This is in regard to the hardware set #17. We need the architect to confirm what is required.

RESPONSE: See response to question 19.

30.) QUESTION: Page S102 of the east mezzanine deck requires shoring for the concrete pour. Says shoring as required by deck manufacturer. The manufacturer is trying to figure out if a 2x6, 16" OC wood framed wall to carry the load. Can the engineer confirm this will suffice?

RESPONSE: Manufacturer to have deck shoring designed by manufacture provided third party engineer. Contractor may submit shoring plan for design team record during construction.

31.) QUESTION: SECTION 10 7516 - GROUND-SET FLAGPOLES Part 2.3, B indicates Exposed Height: As indicated in the Drawings; yet flagpoles do not appear in the drawings that are posted. Can you provide additional information on the flagpoles? e.g. height, quantity, base diameter. Part 2.2, B, 1. "Basic wind speed for Project location is 120 MPH." Is this the maximum speed required for a flagged or unflagged pole?

RESPONSE: Flag poles are no longer part of this project. Delete specification section 10 7516 – GROUND-SET FLAGPOLES.

32.)QUESTION: Alternate #3 says to provide sealed concrete in lieu of resinous flooring. There is no direction on what the base will be with this alternate. Are we to assume it is drywall to the floor? Please advise.

RESPONSE: There is no condition in this project that terminates resinous flooring at drywall finished walls. All resinous flooring conditions terminate at painted CMU walls.

33.)QUESTION: I have a problem finding some of the proposed plants. Here is the list of not available plants and proposed substitutions.

Not available for us:	Substitution
Ilex Cornuta "Carissa"	Ilex crenata "Golden Helli"
Pice Glauca "North Star"	Picea Glauca "Conica" 7 gal.
Spiraea "Red dart"	Spiraea "Double play red"

There is one more ("Snowmounds" Spiraea) but I have no clue for substitution.

RESPONSE: Bidders must price for plants as shown but alternatives of equal value will be allowed after the award using the substitution process outlined in specifications.

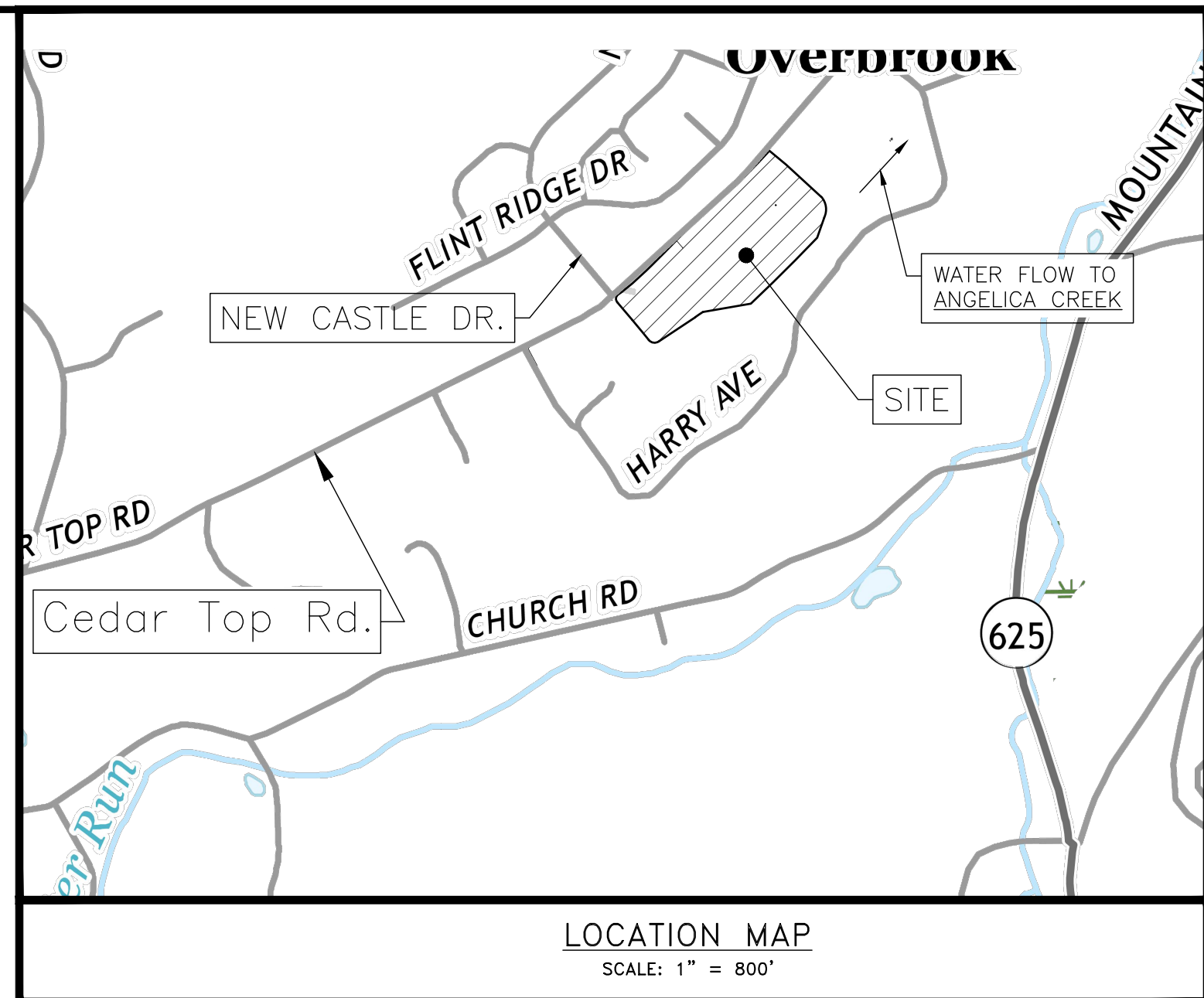
34.)QUESTION: There is lightning protection shown on the roof plan and associated details but there is nothing in the roof specifications for this. Please confirm that this system is to be provided complete from the EC.

RESPONSE: Lightning protection shall be by Electrical Prime Contractor.

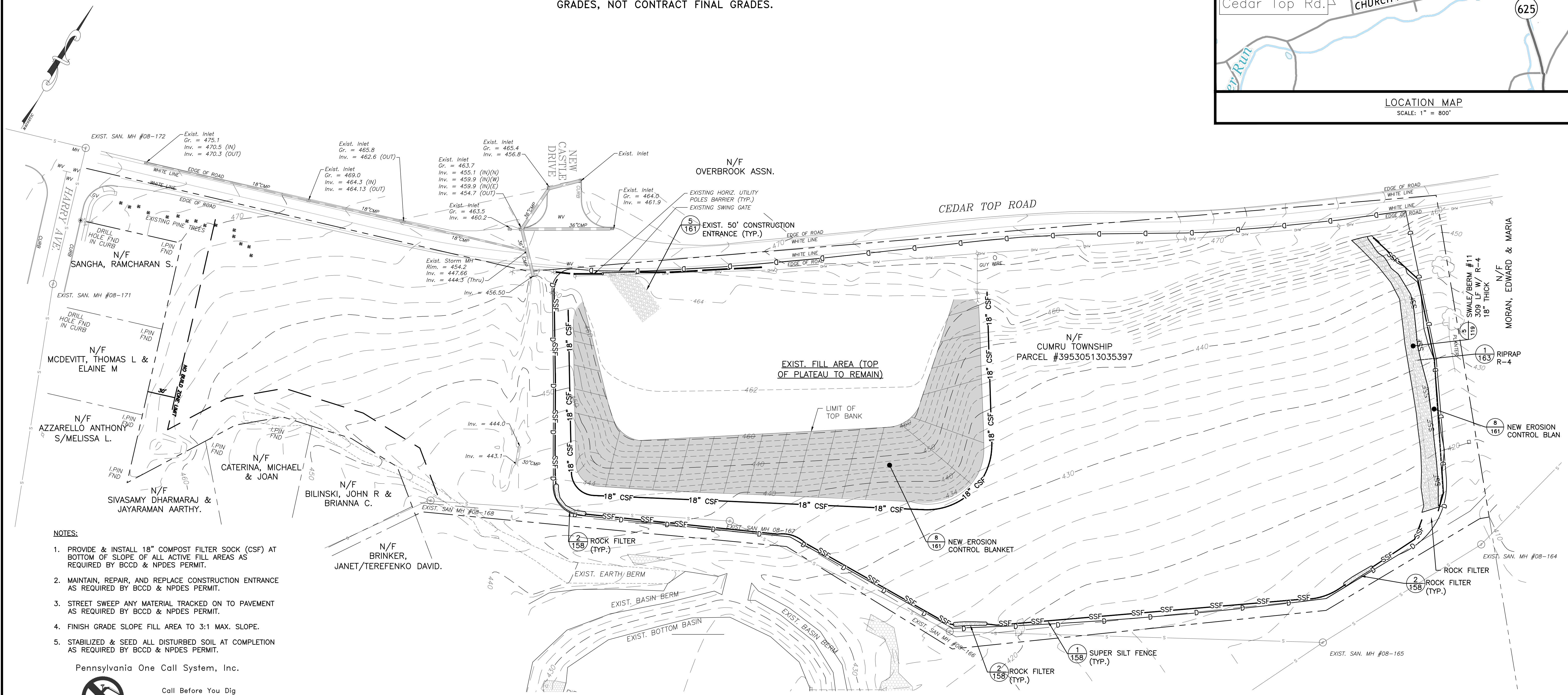
ATTACHMENTS:

Addendum #4 Specifications & Drawing

END OF ADDENDUM

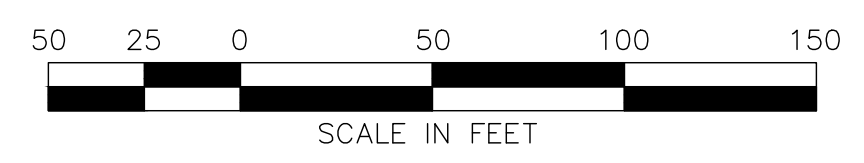


NOTE: CONTOURS DEPICT EVENTUAL FINAL GRADES, NOT CONTRACT FINAL GRADES.



- NOTES:**
1. PROVIDE & INSTALL 18" COMPOST FILTER SOCK (CSF) AT BOTTOM OF SLOPE OF ALL ACTIVE FILL AREAS AS REQUIRED BY BCCD & NPDES PERMIT.
 2. MAINTAIN, REPAIR, AND REPLACE CONSTRUCTION ENTRANCE AS REQUIRED BY BCCD & NPDES PERMIT.
 3. STREET SWEEP ANY MATERIAL TRACKED ON TO PAVEMENT AS REQUIRED BY BCCD & NPDES PERMIT.
 4. FINISH GRADE SLOPE FILL AREA TO 3:1 MAX. SLOPE.
 5. STABILIZED & SEED ALL DISTURBED SOIL AT COMPLETION AS REQUIRED BY BCCD & NPDES PERMIT.

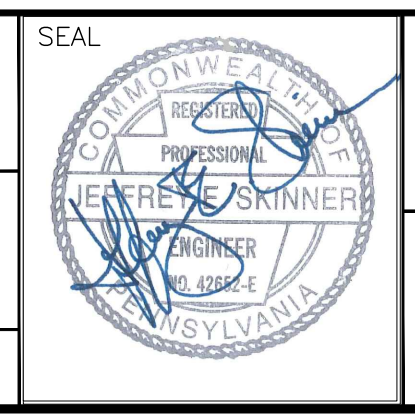
Pennsylvania One Call System, Inc.
 Call Before You Dig
 in Pennsylvania
 1-800-242-1776
 State Law Requires
 Construction Phase: Three working Days Notice
 Design Phase: Ten working Days Notice
 Facility Owners: Member of One Call System
 SERIAL NO. #20210681616



920 Germantown Pike, Suite 200 Plymouth Meeting, PA 19462

NO.	REVISIONS	DATE	ENGR.	DATE	ISSUED FOR
△	FILL AREA STATUS	01/23/24	JES		
△	GENERAL REVISION	3/11/21	JES	3/12/21	ISSUE FOR BIDS

DESIGN ENGR.	GTA	APPROVED	
DRAWN BY	RC		
PROJECT ENGR.	JES	APPROVED	
PROJECT MGR.	JES		
CHECKED BY	JES	DATE	08/31/20



CUMRU TOWNSHIP
BERKS COUNTY, PENNSYLVANIA
 UTILITIES INSTALLATION AND REPLACEMENT, ROADWAY AND DRAINAGE IMPROVEMENTS
 CUMRU TOWNSHIP MUNICIPAL CAMPUS AND VICINITY
 CONSTRUCTION PLAN
 FILL GRADING AND STABILIZATION
 CUMRU TOWNSHIP SPOILS STOCKPILE LOCATION

SCALE	AS NOTES
PROJECT NO.	Z057000415
DRAWING NO.	166.5
SHEET	OF

SECTION 10 1419 - DIMENSIONAL LETTER SIGNAGE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Cast dimensional characters.

1.3 COORDINATION

- A. Furnish templates for placement of electrical service embedded in permanent construction by other installers.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For dimensional letter signs.
 - 1. Include fabrication and installation details and attachments to other work.
 - 2. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 - 3. Show message list, typestyles, graphic elements, and layout for each sign at least half size.
- C. Samples for Initial Selection: For each type of sign assembly, exposed component, and exposed finish.
 - 1. Include representative Samples of available typestyles and graphic symbols.

D. Samples for Verification: For each type of sign assembly showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated and as follows:

1. Dimensional Characters: Full-size Sample of each type of dimensional character.
2. Exposed Accessories: Full-size Sample of each accessory type.

1.5 INFORMATIONAL SUBMITTALS

A. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For signs to include in maintenance manuals.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify locations of electrical service embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

1.8 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
 - a. Deterioration of finishes beyond normal weathering.
 - b. Separation or delamination of sheet materials and components.
2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 DIMENSIONAL CHARACTERS

- A. Cast Characters : Characters with uniform faces, sharp corners, and precisely formed lines and profiles, and as follows:
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide A.R.K. Ramos Cast Aluminum Letters or comparable product by one of the following:
 - a. ACE Sign Systems, Inc.
 - b. Metal Arts; Division of L & H Mfg. Co.
 - 2. Character Material: Cast aluminum.
 - 3. Character Height: Heights shall be as shown on drawings..
 - 4. Finishes: F-1 Aluminum
 - 5. Mounting: PM-1 .
 - 6. Typeface: Arial Reg. No. 535.

2.2 DIMENSIONAL CHARACTER MATERIALS

- A. Aluminum Castings: ASTM B 26/B 26M, alloy and temper recommended by sign manufacturer for casting process used and for type of use and finish indicated.
- B. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.

2.3 ACCESSORIES

- A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signage, noncorrosive and compatible with each material joined, and complying with the following:
 - 1. For exterior exposure, furnish stainless-steel devices unless otherwise indicated.

2.4 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.5 ALUMINUM FINISHES

- A. Color Anodic Finish: AAMA 611, Class I, 0.018 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of signage work.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
 - 3. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

B. Mounting Methods:

1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.
2. Projecting Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Thin or Hollow Surfaces: Place spacers on studs, place sign in position with spacers pinched between sign and substrate, and install washers and nuts on stud ends projecting through opposite side of surface, and tighten.
3. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template. Countersink holes in sign if required. Place sign in position and flush to surface. Install through fasteners and tighten.

3.3 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed characters and signs that do not comply with specified requirements. Replace characters with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 10 1419