

Stamford Museum and Nature Center Astronomy Center 39 Scofieldtown Rd, Stamford, CT 06903 New Construction

Bid Package No.: 31.01 Sitework & Site Improvements

Pursuant to and in compliance with Invitation to Bid relating thereto, the Undersigned,

subcontractor Information:					
	Company Name:				
	Company Address:				
	Contact Name:				
	Office Tel number:				
	Cell phone number:				
	E-mail (required):				
	DAS Certification (if applica	able):			
	DAS Prequalification requi	ired for any bid package over \$500,000:			

This Construction Manager, AP Construction, is An Affirmative Action/Equal Opportunity employer.

All SBE, MBE, WBE, DBE, Disabled Owned, Veteran Owned, Section 3 and other set aside Business Enterprises, contractors and vendors who are certified by the State of Connecticut are STRONGLY encouraged to apply and to submit a bid.

A.P. Construction & Subcontractors to comply with CHRO (Connecticut Human Rights and Opportunities) and DECD (State of Connecticut Department of Economic and Community Development) and City of Stamford procurement requirements.

This project is fully tax exempt (both labor and materials are exempt)

This project is subject to State of Connecticut Prevailing wages per C.G.S. Sec 31-53C.

This project is available for public bidding as advertised through CT.gov DAS Bid Board. All bids MUST be submitted as sealed bids delivered to SM&NC on or before 1:00 PM EST on Monday, November 6, 2023.

Sealed bid packages along with 5% bid bond or certified check must be delivered to:

A.P. Construction Company
RE: SM&NC Astronomy Project
c/o: Liz Sabia

Capital Campaign & Executive Office Administrator

Stamford Museum & Nature Center

39 Scofieldtown Rd,

Stamford, CT 06903

Each trade contract will be awarded to the Lowest Responsible Qualified Bidder (as defined on DECD page 13, section 18).

5% Bid bond or certified check must be required for any subcontracts exceeding \$50,000

Bidders/Contractors will be required to provide a Performance Bond for any contracts exceeding \$50,000

Bidders/Contractors will be required to provide a Labor & Material Payment Bond for any contracts exceeding \$100,000

Bidders/Contractors will be required to provide and maintain insurance coverage for the entire duration of the project as noted. Coverage must be provided minimally for dollar limits as stated, and for all parties required to be named as additionally insured, including the State of Connecticut.

Construction Manager, Architect and Owner reserves the right to disqualify this bid due to failure to submit a bid in the form requested, failure to bid requested alternates or unit prices, failure to complete entries in all blanks in the Bid Form, or includion by the Bidder of any alternates, conditions, limitations or provisions not called for.

Construction Manager shall have the right to reject any and all bids and to waive informalities and irregularities.

Having visited the site, familiarized himself/herself with the conditions present and carefully examined the Drawings, Bidding Package Contract Documents, and complete Specifications together with all Addenda issued and received prior to closing time for receipt of Bids hereby offers and agrees as follows:

To provide all materials, all labor, equipment, supervision and all else whatsoever necessary to erect and properly finish all work in connection with the project per plans and specifications to the satisfaction of the Architect, Construction Manager, Owner and the guarding Authority.

To exclude sales and use taxes as the Owner is a non-profit institution.

To include labor rates per State of Connecticut Prevailing wages C.G.S. Sec 31-53C.

To comply with CHRO, DECD, City of Stamford and AP Construction procurement requirements



To comply with C.G.S. Sec 4b-91 DAS Prequalified Contractor requirement for any bid packages with estimated value of \$500,000 or greater

Furnish all labor, supervision, services, materials, equipment, tools and all other things necessary to complete all work in accordance with the Contract Documents and described in the Specifications and as shown on the plans and relates to the Scope of Work for the referenced Bid Package. The foregoing will not relieve the Contractor from the responsibility of the entire Project Documents. The Scope of Work for this Bid Package includes all the Plans and Specifications and as supplemented by addendum, Special Conditions for Contractors and Vendors. In case of conflict, the greater shall apply.

BASE BID:		\$	
BASE BID LUMP SUM in words:			
ALTERNATE 1 ADD/(DEDUCT):	Please note on each line below as apple Provide structural steel in lieu of timber structural beams and trusses at the classroom and lobby. Refer to Structural drawings S1.01A and S4.00A. Refer to architectural drawings A13.01 for additional detail requirements such as wood trim.		int / (DEDUCT \$ amount) / N.A.
ALTERNATE 2 ADD/(DEDUCT):	At the Council Ring, eliminate the exterior amphitheater seating walls with bluestone caps and reinstall boulder seating (similar to existing condition) as shown on L101, inset A	¥	
ALTERNATE 3 ADD / (DEDUCT):	Eliminate the lobby display case glass paneling and light fixtures Type U and UT from the scope of the project. Retain power and switching to lighting locations. Owner will provide Glass display case glazing, hardware and lighting	\$\$	
ALTERNATE 4 ADD/(DEDUCT):	Shingle Art: Provide a credit for the installation of shingle siding within the denoted area on A3.01. Provide shingle siding material to the owner's artist for installation in the denoted area.	*	
ALTERNATE 5 ADD/(DEDUCT):	Eliminate Grease/Oil separator from scope	\$	
ALTERNATE 6 ADD/(DEDUCT):		\$	
ALTERNATE 7 ADD/(DEDUCT):		\$	
NOTES/EXCLUSIONS:		\$	
Scope specific bid breakdown: Provide the following breakdown	ns (included in Base Bid):		
Earthwork & Site Utilities	cost (L&M)		\$
	& Accessories cost (L&M)		\$
Walkways & Site Concret	·		\$
Grease/Oil Separator cos	t (L&M)		
Materials Cost:			\$
Labor Cost:			\$
	labor hours:		
Sales Tax: (Materials and	·		\$ exempt L&M
	package value exceeds \$50,000 (5% minimum)		\$
•	red if contract value exceeds \$50,000		\$
Labor & Materials Payme	nt Bond required if contract value exceeds \$100,000		\$
TOTAL:			\$



Received Addenda:

Scope specific detail item breakdown:

Furnish and install all components as depicted and specified including, but not limited to:

not in scope - temporary fence set up; maintenance to remain by this Contractor

not in scope - temporary construction entrance set up; maintenance to remain by this Contractor

not in scope - erosion control set up; maintenance to remain by this Contractor

not in scope - tree removal

not in scope - septic system furnish and install (see drawings for delinearation)

not in scope - underslab rigid insulation (by concrete sub)

Mobilization & Site Demolition

topsoil stripping & stockpile; not in scope - topsoil import (by landscape)

rock if any (refence geotech report) - if assuming as included in notes state quantity assumed as to be removed

foundation excavation

relocate excess soils; distribute on property at assigned location(s)

crushed stone base where specified

site grading

Storm drainage System

- Storm system infiltration system
- Storm system rain gardens
- Storm system MH (storm manhole)
- AD's
- CB's
- YD's
- 8" drain; PVCP
- 12" drain; HDPE

Sanitary - tie in building to septic system; septic system by others

Sanitary - clean outs at building where specified

Sanitary - grease/oil separator

Water & Fire Service

- domestic water main
- fire water main
- meter vault
- fire hydrant(s)
- live tap to existing main

Electric/CATV/Tel Service (trench and backfill included; conduits by others)

- trenching and backfill for primary (from pole) and secondary service w/concrete encasement
- trenching and backfill for generator connection
- trenching and backfill for outdoor lighting
- trenching and backfill for auto gates
- trenching and backfill for telecommunication connections
- new transformer pad supply and install
- transformer terminations & grounding
- bollards at transformer
- site light bases; site bollard lights
- bollards specialty at front entry

pavement - asphalt drive and parking; 3" paving standard grade

pavement - asphalt drive and parking; base 12"

pavement - asphalt road patch

pavement - asphalt road asphalt edge alumium restraint

pavement - loop detector imbedded in pavement at auto gate

curbs - concrete

pavement markings at new parking

pavement stripping at no-parking zones

Accessible sign at designated parking stalls

concrete bases at hardscape areas to receive pavements

stone base under concrete as specified

drainage as specified

concrete sidewalks and concrete patios

stone base under concrete as specified

concrete equipment pads

stone base under concrete as specified

pattern where specified for concrete layouts



	exposed concrete finish provided			
	Backer rod, dowls, expansion joints, PMJF and sealants as noted and required			
	Resin-bound Aggregate walkways			
	Stablized Stone Dust (L&M):			
	edging			
	not in scope - traffic control Police for street connections by others			
	underground tape as required			
	equipment as required for own installation			
	shake out and distribution of own materials			
	coordination with other trades to confirm installation requirements			
	material management including waste management and daily clean up			
	temporary protection of own work as required			
	Submittals and as-buits			
	Freight/Shipping/Delivery for own components			
	Punch list repairs as required (assume 2 punch lists - 1 for AP Construction + 1 for Arc	chitect/Owner)		
	Other:			
Exce	ess Soil Assumed (relocated on site):	CY		
Rocl	k Removal Assumed (if any included):	CY	Cost of rock removal per CY	
Sche	eduled Work Days:	DAYS		
Unit	t Costs (add and deduct as applicable)			
1.	Operator (per hour):		\$	
2.	Laborer (per hour):		\$	=
3.	Equipment (per hour):		\$	=
4.	Cost per CY to remove excess soil from project site:		\$	-
5.	Cost per CY to excavate unsuitable fill		\$ \$	-
6.	Cost per CY to mechanically remove mass rock:		\$	=
7.	Cost per CY to mechanically remove trench rock:		\$ *	=
8.	Cost per CY to crush and reuse:		\$ *	-
9.	Cost per yard of structural fill trucked to site and compacted in lifts:		\$ \$	-
۶.	cost per yard of structural fin trucked to site and compacted in ints.		¥	-
lon	g Lead Item Time Frames			
1.	g Lead Item Time Frames			
2.				=
z. 3.				-
3.			-	-
Sub	ocontractor Signature and Date			
Nan	ne:			=
Title	2:			
Date	e:			-
	·			-

General Items Include:

- 1 Prevailing wage rates included based on Connecticut Department of Labor Wage and Workplace Standards rates ID# 23-48056. Rates to be maintained through completion of the project.
- 2 This contractor shall conform with CHRO (Connecticut Human Rights and Opportunities) practices and contract compliance.
- 3 This contractor shall confirm with DECD (Department of Economic and Community Development) practices and contract compliance.
- 4 Insurance in accordance with A.P. Construction insurance requirements.
- 5 Bonds please indicate cost required for bid packages at bid breakdown above
- **6** Adhere to logistic work shown on Bid Documents
- 7 Permits, Fees and Submittals for your work (permit is administrative filing fee only; main permit fee paid by others)



- 8 Subcontractor Safety Program and on-site Tool Box Talk meeting with APC Superintendent.
- 9 Cleanup of your debris to site dumpster daily. This line item will be listed in the Schedule of Values and payment will be made by APC based on the Subcontractor's execution of clean-up responsibilities.
- 10 Site Supervision & Management. To ensure proper communications, this Subcontractor will provide a full-time supervisor on-site whose primary language is English.
- 11 Quality and Workmanship per specifications.
- 12 Correction of work not in allowable tolerance.
- 13 Layout / Field Measuring. If BIM coordination is required, own systems shall be incorporated onto CAD generated coordination drawings as requested for a BIM coordination with other trades. If BIM coordination required (for extra fee), the drawings will be transmitted electronically between the MEP disciplines for each trade to overlay their work on dedicated layers. This subcontractor shall attend job site meetings as required to ensure thorough and accurate coordination. All layouts in the field shall be in accordance with the coordinated MEP drawings.
- 14 Standard working hours are Monday through Friday 7:00 am to 5:00 pm.
- 15 Coordination with other trades
- 16 Protection of your work.
- 17 Labor to meet project schedule.
- 18 Coordination and unloading of deliveries.
- 19 Coordination and personel for fire watch for own scope as required
- 20 Attendance at jobsite meetings.
- 21 Saturday make-up work as needed and for bad weather catch up. Subcontractor will be responsible for AP Construction incurred expenses related to make-up time by Subcontractor.
- 22 Daily Reporting of your work to APC Superintendent inclusive of submitting Daily JSTAs.
- 23 Cutting, coring and patching for your work.
- 24 Mock ups
- 25 Drinking water and Ice for your employees.
- 26 Hoisting, scaffolding, ladders, lifts for your work.
- 27 Handling, unloading and storing of all materials for your work.
- 28 Subcontractor Warranty.
- 29 Manufacturer Warranties.
- 30 Labor Warranties as required by State of CT laws and regulations.
- 31 As-built drawings as required. Operation & Maintenance Manuals. Warranties. Closeout Document complete package.
- **32** Escalation Costs through end of 2024.
- 33 Change Order Mark-up is limited to 10% maximum as a sum for all tiers. All requests for change orders will be submitted using the Construction Manager's Change Order Request form detailing a complete breakdown of labor, material and applicable mark-ups. All applicable supporting
- 34 Seven day maximum for Punch list corrective work.
- **35** Back charges for testing failures and/or deficient work. Sub is responsible for acknowledging and providing a means of corrective action for deficient work to APC within 24 hours of the formal notice. APC has the right to provide separate labor to repair/fix the deficient work if there is no acknowledgement within the 24 hours, or the sub repair work is not completed within a sufficient timeframe.
- **36** Confirmation of receipt of all drawings and specifications.
- 37 Visited and is familiar with jobsite.
- **38** The e-mail address above will be used by the Construction Manager as a primary means of daily communication and distribution of project related information. This subcontractor is responsible for checking their e-mail daily.
- 39 Contractor shall examine all drawings and all sections of the specifications to insure complete coverage of work.
- 40 Alignment/locations shall be coordinated and in conformance with the Architect's direction.
- 41 Testing, Programming and Commissioning of Own system. Cooperate with Commissioning agent.
- **42** Provide Owner training
- 43 All work shall meet or exceed all applicable codes.

Specification Sections related to your work, including but not limited to:

Division 01 - General Requirements Geotechnical Engineering Report 033100 Site Cast-In-Place Concrete

101401 Site Signage

311000 Site Clearing

312000 Earthwork

312200 Finish Grading

312513 Erosion and Sediment Control

332319 Underground ducts



321216 Asphalt Paving and Markings 321313 Cement Concrete Paving 321373 Concrete Paving Joint Sealants 321400 Concrete Unit Pavers 329200 Topsoiling Seeding Mulching and... 331100 Water Distribution Section 333100 Sanitary Sewers 334100 Storm Drainage

Specific Scope Items INCLUDED:

General

- 1 Provide all sitework construction, inclusive of but not limited to: Silt fence maintenance, utilities disconnects and new utilities systems and connections; compacted fill, pavement temp patching, gravel at foundations, foundation drains and filter fabric, topsoil/rough grade, temporary gravel access road and restore disturbed areas, septic connection, storm drainage piping/fittings/systems, crushed stone, roof drain leader connectors/piping, test pits, dewatering areas with silt fence including removal and restoration, anti-tracking pads maintenance, hay bales at catch basins maintenance, new storm drainage system, utilities, and tree protection maintenance.
- 2 This Contractor shall be responsible for laying out, surveying, protecting and the safe performance of their work.
- 3 This Contractor shall be responsible for maintenance of temporary construction access road and laydown areas
- 4 This Contractor shall include an initial baseline survey for the project including establishing control lines and benchmark to be utilized by other trade Contractors provided by a licensed surveyor. This shall include all costs associated with or required by the surveyor. This contractor shall be responsible to protect all benchmarks and points.
- 5 This Contractor shall coordinate all of their work with all other Contractors having work adjacent to or connected to his scope of work.
- 6 This Contractor shall review the schedule and provide adequate manpower and equipment to complete simultaneous operations on the site and to meet the requirements of the project schedule.
- 7 This Contractor shall notify and obtain all applicable permits from the proper authorities including proper notification to "Call Before You Dig" prior to starting any work on site.
- 8 This Contractor shall locate all underground utilities prior to starting work on site. This contractor shall construct first any utilities marked to be relocated as required
- 9 This Contractor shall provide a certified A-2 survey by a licensed surveyor as-built plan at the completion of the project.
- 10 Access must be provided at ALL times to the site. Any and all excavations must be covered up each night and work coordinated to maintain said access.
- 11 This Contractor must maintain access for rubber tire vehicles around and into the building at all times. Access for other trades including but not limited to concrete trucks, steel trucks, masonry operation, etc. must be provided. This shall include the use of gravel, grading, compaction, etc.
- 12 This Contractor shall be responsible for the removal and proper legal disposal of all debris and materials from the site for all work covered within this scope of work. This Contractor is responsible to provide dumpsters for their own work.
- 13 This Contractor shall include all site related snow removal and de-icing for the winter. This includes hand shoveling at all site offices. The snow removal shall include construction access road, construction parking area and for complete access around the site. Snow removal shall be
- 14 This Contractor is responsible for providing winter protection as it relates to excavation activities and other work within their scope.
- 15 This contractor shall coordinate with the owner's testing agency and Special Inspector for all testing and inspection requirements.
- 16 This Contractor shall include dust control.
- 17 This Contractor is to create and maintain a dry environment during excavation and subsequent construction activities including all dewatering on site. Measures may be required to maintain a certain water table elevation so that compaction requirements may be achieved and concrete foundations poured. This Contractor is responsible to supply, maintain and remove any measure required to divert water away from the foundation area. No storm water can be discharged without providing means for silt and sediment control before it enters the permanent storm system.
- 18 The Plumbing contractor shall extend (maximum distance 150 feet) an existing water service and provide a complete temporary freeze proof water service and maintain for the entire project for construction use. This contractor to remove at project completion. The usage bill will be paid by Others



- 19 This Contractor must cooperate with the Concrete Contractor with dewatering for the foundation. This Contractor shall include pumping water, mud removal, clean-up, etc. The Concrete Contractor shall be responsible for the removal and reinstallation of formwork and/or steel reinforcement if necessary.
- 20 This Contractor shall be responsible for traffic control as required for the execution of his work. Also shall provide flagmen, signage, barricades, temporary road plates, etc. as required for safe vehicular and pedestrian traffic. Police traffic control will be by others
- 21 This Contractor shall include all filings, fees, permits, etc. required to complete this scope of work by City and / or state authorities having jurisdiction.
- 22 For any areas disturbed by this Contractor during construction, this Contractor shall repair and restore said areas to the satisfaction of the Owner and A.P. Construction.
- 23 In the event this Contractor should discover any material suspected to be Hazardous during any phase of their work, they are directed to immediately cease work and bring it to the attention of A.P. Construction, who will have the material investigated and/or removed if deemed applicable.
- 24 Topsoil required by the planting plants will be supplied by landscaper.
- 25 This Contractor shall coordinate with the Concrete Contractor the scheduling and installation of concrete foundations. The extent of this work will include but not limited to excavation, compacted fill under slabs, under drain piping, insulation and backfill. It is understood the concrete Contractor will give a minimum of 24 hour notice to this Contractor of specific footings/foundations to be excavated.
- 26 This Contractor shall coordinate with the concrete Contractor so excavation will not exceed foundations poured in a single day. If footing bottoms become unsuitable due to exposure to weather, this Contractor shall be responsible for removal of unsuitable material and replacement with stone.
- 27 This Contractor shall provide all specified fill materials and fine grade to between plus zero to minus ½". This requirement applies to all slabs on grade work.
- 28 This Contractor shall ensure that all mass and trench excavations are in compliance with OSHA regulations.
- 29 This Contractor is to provide all earth retention as required by the specifications and as required by jobsite and field conditions and OSHA regulations.
- **30** This Contractor shall be responsible for the excavation and sub-grade preparation for all the plumbing, mechanical, and electrical work below slabs on grade. This backfilling is to include the proper bedding material as noted in the specifications.
- 31 This Contractor shall provide maintenance of all sedimentation and erosion controls as shown on the contract documents. This Contractor must maintain all sedimentation and erosion controls at all times throughout the course of this project. Emergency repairs must be made within 24 hours of notification from Owner or A.P. Construction. This Contractor shall perform all work in accordance with all State and Town requirements.
- **32** It will be the responsibility of the MEP Contractors to install their work 5 feet outside of the foundations unless otherwise noted. This Contractor is to coordinate the proper timing for the installation of these utilities as it affects backfilling operations. This Contractor shall provide all utilities to 5 feet of the foundations. This Contractor will perform excavation and backfilling to the building if required.
- 33 This Contractor to provide all utility identification tape for underground utilities.
- **34** This Contractor is responsible to remove and dispose of excess concrete including "wash out" from the concrete trucks from the Concrete Contractor.
- 35 This Contractor must cooperate with the Concrete Contractor to create lay down areas for rebar, forms and concrete delivery trucks.
- 36 This contractor shall provide all concrete encasement of site utilities where shown as required on plans.
- 37 The Site Contractor shall provide piping for under slab drainage and footing drains including all stone and filter fabric as shown on plans.
- 38 Coordinate closely with the Construction Manager and other Subcontractors as required so that optimum schedule can be maintained.
- 39 Protect newly graded areas from traffic and erosion. Repair and re-establish grades in settled and eroded areas.
- 40 Rock (if encountered) shall be removed by hoe-ramming, crushed and reused on site
- **41** Adhere to recommendations offered in Geotech Report.
- 42 Provide rip-rap where noted or required
- 43 Furnish and install structural fill in properly compacted lifts below all foundations, slabs, ramps, stairs, pads, etc., on grade. Rock (if any) must be over-excavated and existing till material must be removed to elevations below bottom of footing or slab sub-base as specified.



- **44** Protect structures, utilities, sidewalks, adjacent properties, trees, pavements, etc., from damage caused by settlement, lateral movement, undermining, washout and other hazards created by earthwork operations. This subcontractor shall be responsible for any and all damages caused by his own actions.
- **45** Provide all temporary bracing/sheet piling/shoring as required. Engineering costs, certifications, permits and inspection fees shall be borne by this subcontractor.
- **46** Excavate, grade and prep for all new concrete walks, asphalt walks, pavement, concrete stairs, concrete landings, concrete retaining walls, concrete ramps, dumpster and equipment pads, all curbing, build-in concrete planters, an other site improvements as per the plans.
- **47** Excavate, grade and install asphalt pavement, concrete equipment pads, sidewalks and pathways at parking lots, walking areas, driveway, access driveways, etc. and connect to existing asphalt surfaces as indicated where trenching has occurred and where drainage has occurred.
- 48 Furnish and install all bollards, including specialty bollards
- **49** Furnish and install new concrete bases for outdoor light fixtures, site light poles and bollards. Coordinate with Electrical Subcontractor to match fixtures supplied by EC
- 50 Perform all site utility work in accordance with the Contract Documents as required for a complete and fully operational system.
- 51 Furnish and install sanitary connections and structures between the building and the septic system installed by others. Furnish and install grease trap and clean outs as noted.
- 52 Provide all hydrants, domestic and fire water piping.
- 53 Adjust drainage structures frame covers
- 54 Trench and backfill for all MEP trades (conduits supplied and installed by others)
- 55 Furnish and install all electrical MHs & Handholes
- 56 Furnish and install storm drainage work around the building per the plans. Connect roof leaders.
- 57 Provide all miscellaneous materials and labor required for all connections of adjoining materials, i.e. tapping, cutting, patching, plastering, grouping, coatings, thrust blocks, etc.
- 58 Provide all bacteriological, pressure, leakage, etc., testing required to produce a complete and engineered approved system.
- 59 This subcontractor shall be responsible for coordinating and obtaining approval for all required inspections and the associated fees as it related to this scope of work, inclusive of all closeout documents needed for a Certificate of Occupancy.
- **60** All prices will be held firm throughout the project duration.
- 61 This Contractor to provide at all times a qualified, English speaking on-site installation supervision.
- **62** All work shall be done in accordance with the respective drawings, written specifications, supplemental information, industry standards, trade practice and applicable regulatory agencies.
- 63 All work shall be performed by competent personnel and executed in a neat and workmanlike manner providing a thorough and complete installation.
- **64** Any work if deemed inferior shall be immediately corrected by this Subcontractor.
- 65 This Contractor shall keep a complete set of drawings at all times and will record the progress of installation and markups as they occur.
- **66** Within 30 days of project completion, this Contractor shall provide an "as-built" drawings that accurate reflect the installation of all installed systems and devices associated with this installation.
- 67 The "as-built" drawings shall be provided in a pdf/AutoCAD format when provided the source documents (backgrounds) in electronic format. If electronic format drawings are not available, this Contractor shall furnish "marked-up" hardcopy "as-built" drawings.
- **68** Includes the cost for materials and installation for Items noted in the Specifications
- **69** This Contractor to unload, uncrate, unpack, and install components for own system.

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