

## Bid Addendum No. 2

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March 6, 2026

Washingtonville Central School District – 2024 Capital Project - Phase 3

CSArch Project No. 228-2401.03

SED Control No. Varies

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Architect's Seal

This Bid Addendum No. 2 forms part of the Contract Documents and modifies the original bidding documents dated February 16, 2026. Bid Addendum No. 2 consists of (4) cover pages, (3) specification sections, and (7) 30x42" drawing sheets.

### GENERAL INFORMATION

1. Bid Addendum No. 1 was issued to bidders on February 27, 2026.
2. Bid Addendum No. 2 was issued to bidders on March 6, 2026.
  - a. Pre-Bid Conference/Walkthrough Sign-In Sheet was issued to bidders on March 6, 2026.

### RESPONSES TO THE PROJECT MANUAL OF SPECIFICATIONS:

1. **DELETE** previously revised specification section 011000 – Summary of Work – Multiple Prime Contracts. **REPLACE** with attached newly revised specification section 011000 – Summary of Work – Multiple Prime Contracts.
2. **DELETE** original specification section 074243 – Composite Infill Panels. **REPLACE** with attached revised specification section 074243 – Composite Infill Panels.
3. **DELETE** original specification section 088000 - Glazing. **REPLACE** with attached revised specification section 088000 - Glazing.

### REVISIONS TO THE CONSTRUCTION DRAWINGS:

1. **DELETE** original drawing sheet WMS C120 – Demolition Plan. **REPLACE** with attached revised drawing sheet WMS C120 – Demolition Plan.
2. **DELETE** original drawing sheet WMS C130 – Site Plan. **REPLACE** with attached revised drawing sheet WMS C130 – Site Plan.
3. **DELETE** original drawing sheet WMS C150 – Utility Plan. **REPLACE** with attached revised drawing sheet WMS C150 – Utility Plan.
4. **DELETE** original drawing sheet WMS C530 – Site Details. **REPLACE** with attached revised drawing sheet WMS C530 – Site Details.
5. **DELETE** original drawing sheet WHS C140 – Grading, Erosion & Sediment Control Plan. **REPLACE** with attached revised drawing sheet WHS C140 – Grading, Erosion & Sediment Control Plan.
6. **DELETE** original drawing sheet WHS C150 – Utility Plan. **REPLACE** with attached revised drawing sheet WHS C150 – Utility Plan.
7. **DELETE** original drawing sheet WHS A901 – Door Schedule, Details & Enlarged Plan. **REPLACE** with attached revised drawing sheet WHS A901 – Door Schedule, Details & Enlarged Plan.

## RESPONSES TO BIDDER REQUESTS FOR INFORMATION (RFI):

1. On WHS C150, and various other drawing sheets, there are several storm structures identified. However, it is not clear if they are new or existing. Can you please clarify?
  - a. Response: Existing stormwater structure labels, which refer to original survey for existing conditions, have been removed on all sheets as part of this Bid Addendum #2.
  
2. The plans for this project aren't printing out to scale. Can you please send CAD drawings or new drawings that are to the correct scale?
  - a. Response: Graphic scales were incorrect on original drawing sheets WMS C130, WHS C140, and WHS C150. Those drawing sheets have been revised as part of this Bid Addendum #2 to indicate the correct scale for each respective drawing.
  
3. Section 081733 lists thermal aluminum framing SL-450TG. Door Schedule A901 WHS lists SS (stainless Steel) Frames at most FRP doors. Please clarify what framing is required.
  - a. Response: All new frames being installed at the exterior of the Cafeteria spaces (A, B, & C) shall be aluminum (see specification section 084113 – Aluminum Framed Entrances And Storefronts). All new frames being installed at the exterior for the Pool spaces shall be stainless steel (see specification section 081119 – Stainless Steel Frames). All new frames being installed at the Pool, Pool Spectator Areas, Pool Maintenance Areas, Pool Mechanical/Electrical Rooms, Pool Storage Areas, Pool Locker Rooms, Pool Offices, Pool Toilet Rooms, and Misc. Pool Support Spaces, etc. shall be stainless steel (see specification section 081119 – Stainless Steel Frames). All new frames being installed for new Corridor openings shall be fire-rated hollow metal (see specification section 081114 – Hollow Metal Doors And Frames). Thermal aluminum framing SL-450TG is not required for any openings in this Project.
  
4. Door Schedule A901 WHS lists glazing SG for doors 164C, 166B, and 168. These doors are noted as F (Flush) with frame 1 (no sidelites). Please clarify.
  - a. Response: These doors shall remain as type F (flush) doors and shall have no glazing. Door Schedule and drawing sheet WHS A901 to be updated with this Bid Addendum #2.
  
5. Door Schedule A901 WHS Frame Type 5 & 6 note SS Panel at lower openings of the frame and Glazing Panel at upper openings. Does Glazing Panel mean Glass or other type of panel infill? What is the SS panel specification?
  - a. Response: These frame types have been updated to indicate LM laminated glass and SP spandrel glass on drawing sheet WHS A901 as part of this Bid Addendum #2. LM laminated glass is as originally specified. SP spandrel glass information has been added to specification section 088000 – Glazing as part of this Bid Addendum #2.

6. Storefront/Window Schedule A902 WHS notes a hatch pattern to be Insulated Panel. Is there a spec for this? Are they Aluminum panels?
  - a. *Response: Products identified as Insulated Panels in the drawings are as specified in specification section 074243 – Composite Infill Panels. This specification section has been revised with this Bid Addendum #2.*
  
7. Storefronts S1, S2, S5, and S6 are along the same walls as storefronts with ballistic doors. Are these frames ballistic? Is the glazing and are the panels supposed to be ballistic?
  - a. *Response: Storefronts S1 thru S7 contain insulated panels and glazing type CCL, which are not ballistic rated. Framing for storefronts S1 thru S7 shall not be ballistic rated. However, doors 164C, 166B, and 168 shall be ballistic rated FRP (type BFRP per Door/Frame Material legend).*
  
8. Section 088000 Paragraph 3.7 notes Low-E coated insulated glass with performance and markup. The makeup listed, exterior laminated lite with interior lite does not meet the performance noted. Please clarify which is preferred – the glazing makeup w/ laminated lites or the thermal performance requirements.
  - a. *Response: Glazing schedule in Paragraph 3.7 has been revised per this Bid Addendum #2 to meet U-factors, visible light transmittance, and solar heat gain coefficients necessary to meet the basis of design manufacturer's performance requirements.*
  
9. Sheet A-902, Exterior storefront/windows, there are no specs for the infill insulated panels.
  - a. *Response: Products identified as Insulated Panels in the drawings are as specified in specification section 074243 – Composite Infill Panels. This specification section has been revised with this Bid Addendum #2.*
  
10. Sheet A-902, Door Tags #164C, 166B, 168, What's specified are Special Lite AF-217BR ballistic doors. The specified frames are SL-450T Framing. #087330-6 Paragraph 2.5, Part A1, you cannot use these with ballistic doors. The corresponding frame for ballistic doors in Special Lite AF-150BR framing. Please clarify.
  - a. *Response: All new frames being installed at the exterior of the Cafeteria spaces (A, B, & C) shall be aluminum (see specification section 084113 – Aluminum Framed Entrances And Storefronts). All new frames being installed at the exterior for the Pool spaces shall be stainless steel (see specification section 081119 – Stainless Steel Frames). All new frames being installed at the Pool, Pool Spectator Areas, Pool Maintenance Areas, Pool Mechanical/Electrical Rooms, Pool Storage Areas, Pool Locker Rooms, Pool Offices, Pool Toilet Rooms, and Misc. Pool Support Spaces, etc. shall be stainless steel (see specification section 081119 – Stainless Steel Frames). All new frames being installed for new Corridor openings shall be fire-rated hollow metal (see specification section 081114 – Hollow Metal Doors And Frames). Thermal aluminum framing SL-450TG is not required for any openings in this Project.*

11. Per Elevations 3 and 4/A111 WHS, S3, S4, S7 contain doors 164C, 166B and 168 which are noted as Ballistic FRP. Glazing noted on A902 WHS is CCL or Insulated Panel. Are S3, S4, S7 sidelite frames ballistic? Is the glazing and are the panels supposed to be ballistic?

a. Response: Storefronts S1 thru S7 contain insulated panels and glazing type CCL, which are not ballistic rated. Framing for storefronts S1 thru S7 shall not be ballistic rated. However, doors 164C, 166B, and 168 shall be ballistic rated FRP (type BFRP per Door/Frame Material legend).

12. In the written Specifications Section 081733-5 Paragraph 2.2, Lines 3 & 4 Special-Lite does not offer the SL-301 adjustable door bottom or the adjustable astragal with the AF Series Doors, as these are pultruded doors. Please clarify what's required.

a. Response: Adjustable astragals and adjustable door bottoms are not required for AF Series doors identified for the Project.

13. Door Frame Types #5 & 6 call for stainless steel panels in the lower sidelites. There is no specification for the panels in Section 081119.

a. Response: These frame types have been updated to indicate LM laminated glass and SP spandrel glass on drawing sheet WHS A901 as part of this Bid Addendum #2. LM laminated glass is as originally specified. SP spandrel glass information has been added to specification section 088000 – Glazing as part of this Bid Addendum #2.

**END OF BID ADDENDUM NO. 2**

# Washingtonville CSD – Phase 3 Middle School & High School

## Pre-Bid Meeting

03/3/2026 2:30 PM Project Meeting Sign-in Sheet

Company	Name	Phone Number	Email
Standbeck Co	Dominic Capps	(845) 779-4171	estimating@standbeck.com
MSC Abatement	Chris Berback	914-668-4111	MSCAbatementServices@gmail.com
Herc Rentals	Bill Grath	862-447-5266	William.Grath@hercrentals.com
MDS HVAC R INC	Joe Insiel	914-760-2916	JOE@MOSLUNKR.COM
West-Fair Electric	Frank Lampone	914-760-0996	FLAMPONE@WEST-FAIR.COM
Upstate Electric	Justin Schworbeck	845-476-0541	rich@upstateelectricny.com
Mattewo Burke	whispering Pines	845-313-2432	mattewo@whisperingpines.com
American Electric	Brian Galin	845 721-2979	AmericanElectric.ACE@gmail.com
TM Contracting	Todd Meyer	845 469 2033	Todd@TMContracting.com
Butler Co.	Jacob Jordan	845-769-7413	ESTIMATING@BUTLERCONSTRUCTIONGROUP.COM
Butler Co.	Rene Turner	845-699-4504	ESTIMATING@BUTLERCONSTRUCTIONGROUP.COM

# Washingtonville CSD – Phase 3 Middle School & High School

## Pre-Bid Meeting

03/3/2026 2:30 PM Project Meeting Sign-in Sheet

Company	Name	Phone Number	Email
Boutler	Stephen Scherer	845-863-7830	Steve@boulterconstructiongroup.com
MHCM	Steven Williamson	(845) 913-5642	estimating@midhudsoncm.com
CSArch	Dion Miller	845-670-7829	dmiller@csarchpc.com
CSARCH	SAGRINA INNAMORATO	(845) 238-6926	SINNAMORATO@CSARCHPC.COM
Piazza Inc	Joe Piazza	914-741-4435	lydia@pizzabrothers.com

## SECTION 011000 - SUMMARY OF WORK - MULTIPLE PRIME CONTRACTS

### PART 1 - GENERAL

#### 1.1 PROJECT INFORMATION

- A. Project: Washingtonville CSD 2024 - Capital Project Phase 3
- B. Project Location:
  - 1. Washingtonville High School: 54 W Main St, Washingtonville, NY 10992
  - 2. Washingtonville Middle School: 38 W Main St, Washingtonville, NY 10992
- C. Owner: Washingtonville Central School District
- D. Architect: CSArch
- E. Construction Manager: ACCI - Arris Contracting Company Inc.
- F. The overall scope of work includes:
  - 1. Sitework: Demo, Grading, Site Prep, Drainage, Paving, Sidewalks, etc. | Asbestos Abatement | Columns / Windows / Storefronts | Mechanical Equipment / Ductwork | Kitchen Upgrades | Finish Work | Electrical Upgrade | Fire Alarm Upgrade | Bathroom Renovations | Natatorium & Locker Rooms Upgrade | Masonry Repairs | Etc.
- G. Contracts:
  - 1. The project will be construction under a multiple-prime contract arrangement.
  - 2. Prime contracts are separate contracts between the Owner and separate contractors, representing significant construction activities. Each prime contract is performed concurrently with and closely coordinated with construction activities performed on the Project under prime contracts. Prime contracts for this Project include:
    - a. Sitework Construction Contract (SC)
    - b. General Construction Contract (GC)
    - c. Mechanical Construction Contract (MC)
    - d. Electrical Construction Contract (EC)
    - e. Plumbing Construction Contract (PC)

#### 1.2 DIVISION OF WORK

- A. Each contract shall include all labor materials, plans, tools, equipment and supervision which are required for or incidental to the proper completion of the work as indicated on All drawings and described in the following specifications sections.

1.3 GENERAL REQUIREMENTS - ALL CONTRACTS

A. Specifications

1. Division 00 - Procurement And Contracting Requirements
  - a. All Sections
2. Division 01 - General Requirements
  - a. All Sections

B. Special Notes - All Contracts:

1. **Work Hours: 1st Shift M-F 7:00AM – 4:30PM | 2nd Shift M-F 3:30pm-11:00pm.** Contractor will appropriately provide labor for the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.
2. Delivery allotted times- Contractor trucks/deliveries are allowed only during the following listed times:
  - a. During school, deliveries can be made **before 7:00am or after 2:30pm |**  
During breaks and Summer **7:00am-5:30pm**
3. Contractor is to carry insurance coverages per the Owners Insurance Requirements which are located in the Division 00 Specification for AIA A232 - General Conditions of the Contract for Construction, Article 11.
4. Contractor is specifically reminded about their responsibilities for clean-up as per section 017423. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any interior and exteriors of the building and including but not limited to; parking lots/landscaping/facades/equipment/furniture/walls/floors/windows/etc.which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM, the owner will perform the work with others and deduct the cost from the contractor.
5. Each Contractor shall provide suitable rubbish containers device(s) for their own use (both demolition and construction debris), properly maintained and serviced, replaced as required and protected from access by the public fencing as may be specified herein or approved by the Architect or Construction Manager.
6. Existing building space may not be used for storage unless approved by Owner.
7. Each Contractor is required to submit their job specific safety policy within 10 days of receipt of the Notice to Proceed. Said Policy must minimally meet OSHA Standards and define details concerning the maintenance of a safe work environment and shall also define practices for the maintenance of hygiene and minimizing of the spread of infectious/contagious diseases.

1.4 CONTRACT NO. 1 - SITEWORK CONSTRUCTION CONTRACT (SC)

- A. In addition to the General Requirements, Division 01, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specifications sections:

**Division 02 -- Existing Conditions**

- 022113 - Site Survey
- 023313 - Underground Utility Locator Service
- 024119 - Selective Demolition

**Division 03 -- Concrete**

- 031000 - Concrete Forming and Accessories
- 032000 - Concrete Reinforcing
- 033000 - Cast-in-Place Concrete

**Division 31 -- Earthwork**

- 310000 - Site Clearing
- 312000 - Excavation and Fill
- 312316 - Rock Removal
- 312319 - Dewatering
- 312513 - Erosion and Sediment Controls

**Division 32 -- Exterior Improvements**

- 321216 - Asphalt Paving
- 321640 - Granite Curbs
- 321723 - Pavement Markings
- 323113 - Chain Link Fence and Gate
- 329200 - Topsoil and Seeding

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**Division 33 -- Utilities**

- 334100 - Storm Utility Drainage Piping
- 334900 - Stormwater Drainage Structures

- B. Special Notes - Sitework Construction Contractor:
1. First Shift Work Hours M-F 7:00AM – 4:30PM (during off school days and Summer). Contractor will appropriately man the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.
  2. Site Work Contractor is responsible for all rock removal, cuts/fills to bring site to the correct elevation. Removed materials are required to be removed from the site and legally disposed.
  3. SC to mark out all existing site utilities prior to commencing work.
  4. SC to provide all stormwater protection, silt fence, erosion control, etc. as specified in the construction documents. Damage to existing drainage structures, drain lines, utilities, etc. shall be repaired at Contractor's expense.
  5. SC to hire Private Utility Survey company to map out all on site utilities and provide As-Built Drawings showing underground drain lines and all basin's new or raised.

6. No import recycled materials will be allowed.
7. Asphalt paving shall not be performed when ambient or surface temperatures are below specified limits or during wet conditions.
8. All base, subbase, and asphalt lifts shall be compacted to required densities. Failed compaction tests shall require removal and replacement.
9. All utility structures, manholes, valve boxes, and drains within pavement areas shall be adjusted to final grade and remain flush.
10. SC is specifically notified that at the completion of the project the all affected areas are to be repaired to its original condition including but not limited to application of commercial grade asphalt sealer, grass, etc.

1.5 CONTRACT NO. 2 - GENERAL CONSTRUCTION CONTRACT (GC)

- A. In addition to the General Requirements, Division 01, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specifications sections:

**Division 02 -- Existing Conditions**

024119 - Selective Demolition

028200 - Asbestos Abatement

**Division 03 -- Concrete**

031000 - Concrete Forming and Accessories

032000 - Concrete Reinforcing

033000 - Cast-in-Place Concrete

**Division 04 -- Masonry**

042000 - Concrete Masonry Unit

042613 - Masonry Veneer

**Division 05 -- Metals**

051200 - Structural Steel Framing

**Division 06 -- Wood, Plastics, and Composites**

061053 - Miscellaneous Rough Carpentry

061600 - Sheathing

**Division 07 -- Thermal and Moisture Protection**

072100 - Thermal Insulation

072600 - Vapor Retarders

074243 - Composite Infill Panels

074633 - Plastic Siding

078123 - Intumescent Fire Protection

079200 - Joint Sealants

**Division 08 -- Openings**

081113 - Hollow Metal Doors and Frames

081116 - Aluminum Frames

- 081119 - Stainless Steel Frames
- 081416 - Flush Wood Doors
- 081733 - Fiber Reinforced Polymer Doors
- 083100 - Access Doors and Panels
- 084113 - Aluminum Framed Entrances and Storefronts
- 085113 - Aluminum Windows
- 085213 - Aluminum-Clad Wood Windows
- 087100 - Door Hardware
- 087100.1 - Door Hardware Schedule
- 087113 - Power Door Operators
- 088000 - Glazing
- 088723 - Security Films
- 088813 - Fire-Resistant Glazing
- 088853 - Security Glazing
- 089119 - Fixed Louvers

**Division 09 -- Finishes**

- 090561.13 - Moisture Vapor Emission Control
- 092216 - Non-Structural Metal Framing
- 092900 - Gypsum Board
- 093013 - Ceramic And Quarry Tiling
- 095113 - Acoustical Panel Ceilings
- 096513 - Resilient Base and Accessories
- 096519 - Resilient Tile Flooring
- 096700 - Fluid Applied Flooring
- 099100 - Painting
- 099600 - High-Performance Coatings

**Division 10 -- Specialties**

- 101100 - Visual Display Units
- 101423 - Interior Panel Signage
- 102113.19 - Plastic Toilet Compartments
- 102800 - Toilet, Bath, and Laundry Accessories
- 105126 - Plastic Lockers & Benches
- 105626 - Mobile Storage Shelving

**Division 11 -- Equipment**

- 112173 - Commercial Laundry Equipment
- 114000 - Food Service Equipment
- 114001 - Food Service Accessories

**Division 12 -- Furnishings**

- 122413 - Window Shades
- 123661 - Solid Surfacing Materials

**Division 13 -- Special Construction**

- 131113 - Swimming Pool Piping, Valves & Fittings

131143 - Channel Drain System  
131146 - Swimming Pool Deck Equipment  
131149 - Swimming Pool Gutter Cleaning

B. Special Notes - General Construction Contractor:

1. First Shift Work Hours M-F 7:00AM – 4:30PM (during off school days and Summer) | Second Shift 3:30pm – 11:00pm (during school days). Contractor will appropriately man the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.
2. GC to provide negative air environments to properly exhaust all work areas of any odors, dust, fumes.
3. GC is responsible for all asbestos abatement work on the project.
4. GC is specifically reminded of their responsibility of Division 11, provide all Food Service Equipment, ANSUL Fire Suppression, etc.
5. GC will utilize lead-safe work practices – when impacting/ removing / disposing of any lead containing items.
6. GC is notified that phasing may require multiple mobilizations and multiple crews of various subcontractors.
7. GC and subcontractors will not be allowed to use existing or new plumbing fixtures to wash out mortar pans, grout, adhesives, etc.
8. GC is specifically notified that at the completion of the project the all affected areas are to be repaired to its original condition including but not limited to staging areas, storage rooms, etc.
9. Access doors for MEP trades furnished by trade requiring access; installation by GC.
10. GC is specifically reminded of their responsibilities for clean up as per Section 017423. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, and weekly wet mopping, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any surfaces/equipment which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM, within 4 hours of being notified the owner will perform the work with others and deduct the cost from the contractor.
11. GC and their Door Hardware consultant will field measure all existing door frames scheduled to remain and receive new doors for proper hardware placement.
12. GC will install floor protections (utilizing heavy duty "Ram-Board" with taped joints, or equivalent) to protect floor surfaces from damage for all room areas and corridor access routes necessary for construction.
13. The GC shall be responsible for all roof reinforcement work occurring within the interior of the building structure. MC shall be responsible for all roof structural work at and above the roof deck line.

14. The General Contractor (GC) shall be responsible for all Division 13 work and shall engage an experienced contractor with prior pool system experience, as identified and listed

15. The General Contractor (GC) shall be solely responsible for providing, installing, maintaining, and removing all scaffolding within the Pool Natatorium. Other contractors shall be permitted to use the scaffolding as required for their work, subject to compliance with all applicable safety requirements and the GC's coordination.

16. The General Contractor (GC) shall be solely responsible for providing, installing, maintaining, and removing all scaffolding within the High School Band Room 191. Other contractors shall be permitted to use the scaffolding as required for their work, subject to compliance with all applicable safety requirements and the GC's coordination.

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17. The General Contractor (GC) is specifically reminded of their responsibility to provide the Timing System within the pool area; the EC to provide and terminate the power.

18. The General Contractor (GC) is specifically reminded of their responsibility to provide the ADA Pool Lift.

19. The General Contractor (GC) is specifically reminded of their responsibility to provide the new Washers & Dryers within the Pool Maintenance Room.

20. The General Contractor (GC) is specifically reminded of their responsibility to provide Concrete Equipment Pads for all trades.

#### 1.6 CONTRACT NO. 3 - MECHANICAL CONSTRUCTION CONTRACT (MC)

A. In addition to the General Requirements, Division 01, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specifications sections:

**Division 01 -- General Requirements**

019113 - General Commissioning Requirements

019113.1 - Commissioning Plan Phase 3

**Division 02 -- Existing Conditions**

024119 - Selective Demolition

**Division 05 -- Metals**

051200 - Structural Steel Framing

055210 - Non-Penetrating Roof Fall Protection

**Division 06 -- Wood, Plastics, and Composites**

061053 - Miscellaneous Rough Carpentry

061600 - Sheathing

**Division 07 -- Thermal and Moisture Protection**

072100 - Thermal Insulation

072600 - Vapor Retarders

075323 - Ethylene-Propylene-Diene-Monomer (EPDM) Roofing  
076200 - Sheet Metal Flashing and Trim  
077100 - Roof Specialties  
077200 - Roof Accessories  
078413 - Penetration Firestopping  
079200 - Joint Sealants

**Division 08 - Openings**

083100 - Access Doors and Panels  
089119 - Fixed Louvers

**Division 09 -- Finishes**

099100 – Painting  
099600 - High-Performance Coatings

**Division 23 -- Heating, Ventilating, and Air-Conditioning (HVAC)**

230500 - Basic Mechanical Requirements  
230504 - Electric Wiring  
230513 - Motors  
230514 - Motor Controllers  
230523 - Valves  
230525 - Hydronic Coil Piping Package  
230530 - Roof Curbs  
230548 - Vibration Isolation of Mechanical Systems  
230550 - Wind Restraints for HVAC Systems  
230553 - Mechanical Identification  
230593 - Testing, Adjusting and Balancing  
230710 - Insulation  
230923 - Building Management System - DDC Logic  
232010 - Piping Systems and Accessories  
232110 - Water System Specialties  
233100 - Sheet Metal and Ductwork Accessories Construction  
233400 - Fans  
233713 - Registers and Diffusers  
237413.10 - Packaged Rooftop Units  
237423.16 - Rooftop Indirect-Fired Gas Make-Up Air Units  
238216.11 - Coils  
238235 - Gravity Heating Equipment (Hydronic)  
238239 - Unit Heaters and Cabinet Unit Heaters (Hydronic and Electric)

B. Special Notes - Mechanical Construction Contractor:

1. 1st Shift Work Hours M-F 7:00AM – 4:30PM | (during off school days and Summer) | Second Shift 3:30pm – 11:00pm (during school days). Contractor will appropriately man the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.

2. Access doors where necessary are furnished by the MC and installed by GC.
3. MC is specifically notified that access to any tunnels and/or crawl spaces are confined work environment and all workers must have appropriate OSHA certifications and training.
4. All existing ceiling removal / replacements necessary to install new MC work will be by MC Contractor. (e.g. – hydronic piping, valves, insulation, etc.)
5. Any wood blocking required for any mechanical work items are to be done by the MC.
6. All HVAC unit dunnage, rooftop supports, steel supports /angles per the Structural Drawings and roofing patching associated with Mechanical work is done by the MC (including Roof Walk Pads). MC contractor will utilize a roofing subcontractor who is certified to work on that roof by the roofing manufacturer to maintain Owners warranty.
7. In some locations there may be plaster ceilings which remain above the Acoustic tile/grid ceiling. Mechanical contractor will cut access holes where necessary to enable install of hangers, piping, ductwork to structure above.
8. Any HVAC piping exposed to view in finished spaces will be insulated and enclosed in metal
9. When required, where GC removes existing ceilings, the MC will remove any ceiling diffusers, registers, grilles etc. MC to reinstall as new ceilings are being completed.
10. VFD's, disconnects, starters, etc. supplied by MC will be installed by EC, unless noted otherwise.
11. MC will utilize lead-safe work practices– if impacting/ removing / disposing of any lead containing items.
12. All louvers are supplied and installed by Mechanical Contractor.
13. The MC should figure crane pick days for the setting of the rooftop HVAC units, submit a pick plan to be reviewed and approved by the CM, Owner, and or Architect.
14. MC is responsible for making their own through wall, through roof, and through floor duct/piping penetrations and associated patching/fire-stopping.
15. The drawings show basic schematic routing for hydronic piping. The MC may need to re-route piping around existing ductwork or steel to obtain access to the room in certain locations as part of their base bid contract.
16. If any new mechanical units are too large to fit through existing openings the Mechanical contractor will either disassemble equipment into sections or remove existing construction to enlarge opening and reconstruct to match (at no additional cost).
17. MC is specifically reminded of their responsibility to scan existing hollow core concrete planks prior to creating any new openings.
18. Duct detectors supplied and wired by EC (MC installs the duct detector).

19. MC is specifically notified construction is phased which necessitates that utilities/services will need to be temporarily connected and maintained as necessary to ensure that all occupied areas have the required services.
20. All HVAC control wiring is provided and installed by Mechanical Contractor. (Power wiring by EC).
21. MC shall be responsible for all roof structural work at and above the roof line. The GC shall be responsible for all roof reinforcement work occurring within the interior of the structure.
22. MC is specifically reminded of their responsibilities for clean up as per Section 017423. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, and weekly wet mopping, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any surfaces/equipment which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM, within 4 hours of being notified the owner will perform the work with others and deduct the cost from the contractor.

1.7 CONTRACT NO. 4 - ELECTRICAL CONSTRUCTION CONTRACT (EC)

- A. In addition to the General Requirements, Division 01, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specifications sections:

**Division 02 -- Existing Conditions**

024119 - Selective Demolition

**Division 06 -- Wood, Plastics, and Composites**

061053 - Miscellaneous Rough Carpentry

061600 - Sheathing

**Division 07 -- Thermal and Moisture Protection**

078413 - Penetration Firestopping

079200 - Joint Sealants

**Division 08 - Openings**

083100 - Access Doors and Panels

**Division 09 -- Finishes**

092900 - Gypsum Board

099100 - Painting

**Division 26 -- Electrical**

260501 - Basic Electrical Materials and Methods

260501 - Basic Materials and Methods

260526 - Grounding

262000 - Electric Distribution

265000 - Lighting

265500 - Lighting Controls

**Division 28 -- Electronic Safety and Security**

283103 - Fire Alarm System - Existing Hardwired System

B. Special Notes - Electrical Construction Contractor:

1. 1st Shift Work Hours M-F 7:00AM – 4:30PM | (during off school days and Summer) | Second Shift 3:30pm – 11:00pm (during school days). Contractor will appropriately man the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.
2. Any existing ceiling, walls, etc. removal/replacement, cutting and patching, necessary to install new electrical work to be done by Electric Contract. (e.g. – new conduits for feeders through existing ceilings, etc.). In areas of ceiling removal, EC will tie up and secure any low hanging wires, using zip ties at 6'-0" on center.
3. Any existing ceiling removal/replacement necessary to install new electrical work to be done by Electric Contract. (e.g. – new conduits for feeders through existing ceilings, etc.)
4. VFD's, disconnects, motor starters, etc. which are supplied by MC will be installed by EC, unless noted otherwise.
5. Any wood blocking or panel backboards for electrical items by EC contract.
6. Where GC is removing existing ceilings, the EC will remove any ceiling mounted electrical items, Light Fixtures, FA devices, Speakers, WAP, exit signs, cameras, etc. EC to reinstall (at new height if required) as the new ceilings are being completed.
7. In some locations there may be plaster ceilings which remain above the Acoustic tile/grid ceiling. Electrical contractor will cut access holes where necessary to enable install of hangers for conduits, lights, etc to structure above.
8. After GC ceiling removals for areas scheduled to receive new acoustic grid/tile, the EC will properly tie up any sagging wires at 6' o.c. to be supported above the ceiling grid in accordance with code. Electrical Contract is responsible to neatly tie up and secure all existing wiring after ceiling removals by others.
9. EC will utilize lead-safe work practices – if impacting/ removing / disposing of any lead containing items.
10. Access doors are furnished by Electrical Contract and installed by GC Contract.
11. All systems wiring reconnections are by Electric Contract – including Fire Alarm, Door Access, Security Camera, Speakers, Data, etc.
12. Electrical Contract to provide and wire Fire Alarm duct detectors and HVAC unit shutdown connections (MC install the duct detector)
13. Electrical Contractor is specifically notified construction is phased which necessitates that utilities & services will need to be temporarily connected and maintained as necessary to ensure that all occupied areas have the required services.

14. EC is hereby reminded that any required power shutdowns must not disrupt normal day-to-day school operations. If a shutdown is necessary, EC shall provide a properly sized generator as required to ensure continuous power to all essential building systems, including but not limited to life safety systems, heating and air conditioning, food preservation systems, lighting, and other critical services.
15. EC is specifically reminded of their responsibility to provide the Fire Alarm Upgrade work associated with this project.
16. EC is specifically reminded of their responsibilities for clean up as per Section 017423. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, and weekly wet mopping, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any surfaces/equipment which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM, within 4 hours of being notified the owner will perform the work with others and deduct the cost from the contractor.

2

17. The Electrical Contractor (EC) is specifically reminded of their responsibility to remove the existing power and provide / terminate the new power to the new Timing System within the pool area.

1.8 CONTRACT NO. 5 - PLUMBING CONSTRUCTION CONTRACT (PC)

- A. In addition to the General Requirements, Division 01, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specifications sections:

**Division 02 -- Existing Conditions**

024119 - Selective Demolition

**Division 06 -- Wood, Plastics, and Composites**

061053 - Miscellaneous Rough Carpentry

**Division 07 -- Thermal and Moisture Protection**

072100 - Thermal Insulation

078413 - Penetration Firestopping

079200 - Joint Sealants

**Division 22 -- Plumbing**

220500 - Basic Plumbing Requirements

220523 - Valves

220593 - Adjusting and Balancing

220700 - Insulation

221010 - Piping Systems and Accessories

221100 - Water Supply

223011 - Backflow Preventer Enclosure

223400 - Water Heaters

224000 - Plumbing Fixtures and Trim  
227010 - Natural Gas Systems

B. Special Notes - Plumbing Construction Contractor:

1. 1st Shift Work Hours M-F 7:00AM – 4:30PM | (during off school days and Summer) | Second Shift 3:30pm – 11:00pm (during school days). Contractor will appropriately man the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs.
2. Plumbing Work Contractor is notified that phasing may be required, with multiple mobilizations and multiple crews of various subcontractors.
3. In some locations there are plaster ceilings which remain above the Acoustic tile/grid ceiling. Plumbing contractor will cut access holes where necessary to enable install of hangers for piping to structure above.
4. Any Plumbing piping exposed to view in finished spaces will be insulated and enclosed in 14 ga. metal chase (painted) by Plumber Contractor. Cost will be included in base bid.
5. Plumbing Contractor is responsible for all existing slab sawcut, chop out concrete, sub-slab piping work.
6. Plumbing Contractor will re-insulate any existing domestic water elbows and piping which were removed at new work connections. All costs to be included in the Plumbing Contractors base bid.
7. Contractor shall provide all required valves, insulation, seismic restraints, drip pans, expansion tanks, and venting
- 8.
9. All piping routed to or through the roof shall be properly supported, flashed, sealed, and waterproofed.
10. All plumbing systems shall be tested, flushed, and disinfected as required by code and project specifications.
11. Contractor shall coordinate with the kitchen equipment vendor and other trades for proper rough-in, final connections, and clearances.
12. PC is specifically reminded of their responsibilities for clean up as per Section 017423. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, and weekly wet mopping, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any surfaces/equipment which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM, within 4 hours of being notified the owner will perform the work with others and deduct the cost from the contractor.

1.9 PRIME CONTRACTOR'S USE OF PREMISES

- A. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the work is indicated.
- B. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.
- C. Owner's representative(s) will cover the project as outline above in General Special Notes for all. If a contractor requests additional hours to make up schedule time or weekends, he will need to reimburse Owner for additional coverage or costs (e.g. – Architect, Construction Manager, etc.) at their contractual rate.
- D. General: Limitations on site usage as well as specific requirements that impact utilization are indicated on the drawings and by other contract documents. In addition to these limitations and requirements, the Contractor shall administer allocation of available space equitably among the separate sub-contractors and other entities needing access and space, so as to produce the best overall efficiency in performance of the total work of the project. The Contractor shall schedule deliveries so as to minimize space and time requirements for storage of materials and equipment on site.
- E. After the equipment is no longer required for the work, it shall be promptly removed from the project site. Protection of construction materials and equipment stored at the project site from weather, theft, damage and all other adversity is solely the responsibility of the Contractors.
- F. Do not unreasonably encumber the site with materials or equipment. Confine stockpiling of materials and location of storage sheds to the areas indicated. If additional storage is necessary, obtain and pay for such storage off-site.
- G. The Contractor(s) and any entity for which the Contractor is responsible shall not erect any sign of the Project site without the prior written consent from the Owner, which may be withheld in the sole discretion of the Owner.
- H. The Contractor(s) shall ensure that the work, at all times, is performed in a manner that affords reasonable access, both vehicular and pedestrian, to the site of the work and all adjacent areas. The work shall be performed, to the fullest extent reasonably possible, in such a manner that public areas adjacent to the site of the work shall be free from all debris, building materials, and equipment likely to cause hazardous conditions. Without limitation of any other provision of the Contract Documents, contractor shall use its best efforts to minimize any interference with the occupancy or beneficial use of: Any areas and building adjacent to the site of the work or the building in the event of partial occupancy.

- I. Maintain the building in a safe and weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building during the construction period.
- J. Each Prime Contractor is responsible for maintaining a safe jobsite. This includes actively reviewing their work areas to ensure that they are in compliance with all required OSHA regulations. It is a contract requirement that each contractor conducts weekly tool-box safety meetings to ensure that their employees are properly educated and utilizing safe work practices. (Copies of these weekly meetings and a list of the attendees will be forwarded to the CM Site Superintendent on a weekly basis). Contractors will comply with all requirements outlined in the General Conditions including providing their employees with PPE (personal protective equipment) such as masks, hand sanitizer, hard hats, proper work boots, safety harness, safety glasses, etc.
- K. Use of tobacco products, drinking alcoholic beverages or open fires will not be permitted on the project site.
- L. Utility Outages and Shutdown:
  - 1. Limit the disruption of utility services to hours the building is unoccupied, weekends or holidays at no additional cost.
  - 2. Do not disrupt or shut down line safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days' notice to Owner and authorities having jurisdiction.
  - 3. Prevent accidental disruption of utility services to other facilities.
  - 4. All costs for manning of temporary shutdowns and utility crossovers, including 24-hour fire watch if necessary, are included in the contractor's bid regardless of weekend, holiday, etc.

#### 1.10 OCCUPANCY REQUIREMENTS

- A. Partial Owner Occupancy: The Owner reserves the right to occupy the place and install equipment in completed areas of the work prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work, such placing of equipment and partial occupancy shall not constitute acceptance of the Total Work.
- B. The Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
- C. Obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
- D. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving

- E. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

#### 1.11 DEFINITIONS

- A. Definitions as applied to "Contractors" involved with the work of this Project:
  - 1. "The Contractor" or "Contractor" meaning that Respective Prime Contractor normally responsible for that work referenced.
  - 2. "Respective Prime Contractor" meaning either the – General Contractor, Plumbing, HVAC, Electrical, Sitework, Fire Protection Contractors normally responsible for the referenced work.
  - 3. "Trade Contractor" meaning that Respective Prime Contractor as above; and such other terms relating to Contractors to be taken in context with respect to the referenced work.
  - 4. Further, wherein said Division 00 and 01 and respective Sections therein, any reference is made to "General Contractor", same shall be construed to mean "Contractor for the General Construction, or General Work Contractor".
- B. The Owner cannot guarantee the correctness of the existing conditions shown and assumes no responsibility therefore, it shall be the responsibility of the Contractor to visit the site and verify all existing conditions prior to bid.
- C. The Owner will purchase certain items required for the overall operation of this facility through outside vendors.
- D. The Contractor(s) will cooperate with said vendors as may be necessary to permit the work to be accomplished.
  - 1. The cooperation may extend to the receiving, unloading and placement of said equipment if directed by the Owner.
  - 2. Each Contractor is advised that the Owner may enter into separate contracts as may be in their best interest.
  - 3. Each Contractor is further advised that there will be a full on-site Project Representative/Construction Manager, whose duties will be defined at the pre-construction meeting.

#### 1.12 ADDITIONAL SECURITY PROVISIONS

- A. All Contractor's employees shall use a single means of access and egress, except in the case of emergency, to be designated by the Construction Manager.
- B. Each Contractor and each Subcontractor shall require his employees, while on the job site, to wear, in a conspicuous location, a photo I.D. button bearing the name of the employee and the Contractor. The buttons of each Contractor shall be numbered consecutively. An up-to-date list of all I.D. buttons, indicating the name and number for each employee, shall be furnished to the Construction Manager.

1.13 ASBESTOS AND LEAD PAINT AWARENESS REQUIREMENTS

- A. Contractor agrees not to use or permit the use of any asbestos containing material in or on any property belonging to the Owner.
- B. For purposes of this requirement, asbestos free shall mean free from all forms of asbestos, including actinolite, amosite, anthophyllite, chrysotile, crocidolite and tremolite, both in friable and non-friable states and without regard to the purposes for which such material is used.

1.14 CONSTRUCTION TIME AND PHASING REQUIREMENTS

- A. Each Contractor is advised the "time is of the essence" of the Contract as defined in the "General Conditions" for the completion of the construction of the facility. It is understood that the work is to be carried through to completion with the utmost speed consistent with good workmanship.
- B. Time of Completion shall be as established in the Milestone Schedules (Section 011100).
- C. The Contractor shall maintain fences and barricades at all times and shall repair/restore and/or pay for any temporary fence damaged by their work.
- D. Always maintain all exits and walkways.
- E. Where the barricade is removed for work, the Contractor performing such work shall provide adequate safety personnel to prevent unauthorized persons from approaching the work area.
- F. Construction Phasing: The phasing and/or milestone schedule contained in Section 011100 has been established for the overall construction of the project.
- G. Electrical and mechanical services to the functioning spaces shall be always maintained.
- H. Swing-overs to new facilities shall be made so as to cause the least interruption to the facilities' operations.
- I. The Contractor shall provide and maintain all required separations between old and new construction to prevent:
  - 1. Unauthorized entrance to construction areas by other than Architect, Construction Manager, or Owner.
- J. Exterior alteration and restoration, as required, may proceed outside of phasing schedule at the Contractor's option with concurrence from the Architect, Construction Manager and Owner.
- K. Site development work shall proceed in such a manner to cause the least amount of disruption to the ongoing operations as possible.

1.15 PROOF OF ORDERS, DELIVERY DATES AND SUPPLY CHAIN TRACKING

- A. Within 2 weeks after the approval of shop drawings, samples, product data and the like, the Contractor shall provide copies of purchase orders for all equipment and materials which are not available in local stock. The Contractor shall submit written statements from suppliers confirming the orders and stating promised delivery dates. Failure to provide this critical information will result in Owner holding monthly requisition payments until received.
- B. Due to potential disruption of material supply-chains, the Contractor(s) are required to obtain all materials for the project and store them onsite in their individual Conex boxes. This includes general material items typically readily available (piping, conduits, wire, metal studs, etc.) The Owner will pay for these stored items delivered to the jobsite in accordance with Section 012900.
- C. This information shall be incorporated within the progress schedules so required as part of Sections 013216 and 013300 and shall be monitored so as to ensure compliance with promised dates.

1.16 FIELD MEASUREMENTS

- A. Each respective Contractor shall take all necessary field measurements prior to fabrication, release and installation of work and shall assume complete responsibility for accuracy of same.

1.17 INITIAL SUBMITTAL REQUIREMENTS

- A. As specified in Division 01, each Contractor shall provide items noted including – bonds, insurance, emergency telephone numbers, progress scheduling, schedules of submittals, subcontractor listings and the like prior to the start of any work. The Owner will not issue contracts until all bonds and insurance information is received from the Contractor and verified correct.

1.18 SCHEDULES

- A. The milestone schedule presented in the documents is for bidding and general purposes. Due to the nature of the work, it is the intention of the Construction Manager to work with the Contractor to finalize the final project schedule. The milestone schedule presented in the documents is for bidding and general purposes. Due to the nature of the work, it is the intention of the Construction Manager to negotiate actual work periods for the project amount various Prime Contractors involved with this bidding process, as well as separate contractors involved with other phases of the work solicited under separate proposals. Each Contractor shall, under terms of the General Conditions, mutually cooperate in the rescheduling of work to permit an uninterrupted use of the facilities by the Owner, without additional cost to the Owner.

B. General:

1. The objective of this project is to complete the overall work in the shortest period of time and to protect the building and occupants from damages caused by weather and construction during the progress of the work.
2. To meet these objectives, the Contractor shall plan the work, obtain materials, and execute the construction in the most expeditious manner possible in accordance with the requirements listed below.
3. If the Contractor fails to expedite and pursue any part of the work, the Owner may terminate the contract or may carry out the work with others per the General Conditions.
4. The Contractor shall work in coordination with work of other Contractors and Owner.
5. All Contractors are required to comply with proper sequencing of work and provide other Prime Contractors sufficient time to install their work. If Contractor "boxes out" another Prime Contractor, he will be directed to stop work and open if necessary, to enable other trades to complete their work. No compensation for lost time due to stop-work will be provided.

1.19 ADDITIONAL REQUIREMENTS

A. The following are additional general and special requirements which will govern the work of the projects covered by these documents:

1. If it appears that some of the work cannot be completed by the scheduled date, the Contractor shall increase the work force or increase the hours of work, including evenings and weekends as necessary, and cover any additional costs to the Owner, Architect and Construction Manager.
2. If the work is complete but the area has not been cleaned or debris and equipment remain, the Owner and/or Construction Manager will notify the Contractor of the deficiencies. The Contractor will have up to four hours to clean the specified area(s) to the satisfaction of the Owner and/or Construction Manager. If the Contractor fails to do so, the Owner reserves the right to prepare the area for occupancy using their own resources and deduct the associated costs from the Contract amount.
3. If the Contractor fails to staff the job adequately to meet the completion date, the Owner reserves the right to assume possession of the material and complete installation with the Owner's forces or other Contractors or to require the Contractor to work evenings and weekends at no additional cost to the Owner.
4. The jobsite may be made available on weekends and evenings to all the Contractors for additional time to complete the work before final completion date. Any custodial or Construction Manager costs resulting in this after-hours scheduling will be the Contractor's responsibility at the Construction Manager's contractual hourly rate.

5. Contractor must plan, provide and maintain his own access, ramping and egress as required into and out of the site, staging of trailer(s), materials, machinery, and equipment in agreement with the Construction Manager's Superintendent. Maintain free and safe access on the jobsite for other related project personnel. Maintain safe pedestrian or vehicular traffic must be regulated by a flagman. Trucking and delivery operation should be coordinated with Construction Manager's Superintendent and all other trades.
6. Contractor is responsible to maintain existing site fencing in its existing condition. Modifications of the fence to better accommodate the contract work can be discussed with the Construction Manager. These changes shall than be handled by this Contractor at his expense and in accordance with the Construction Manager's Superintendent's direction. Any cost incurred as a result of damages shall be charged to this Contractor.
7. Contractor's personnel will not be permitted to use Owners facilities (including toilet, telephone, food services, etc.) for their own benefit. Contractor's Superintendent must explain this to all their field forces.
8. Contractor shall limit his operations including storage of materials and prefabrication to areas within the Contract Limit Lines.
9. Contractor shall coordinate the use of premises with the Owner and Construction Manager and shall move at his own expense any stored products under Contractor's control, including excavated material, which interfere with operations of the Owner or separate Contractors.
10. Contractor shall obtain and pay for off-site storage as needed to maintain the Owner's use of their premises. The costs of any required storage shall not be an additional expense to the Owner.
11. Contractor shall assume full responsibility for the protection and safekeeping of products under this Contract stored on the site and shall cooperate with the Construction Manager to ensure security for the Owner's Property.
12. The intention of the work is to follow a logical sequence; however, the Contractor may be required by Construction Manger to temporarily omit or leave out any section of his work or perform his work out of sequence. All such out of sequence work and come back time to these areas shall be performed at no additional cost to the Owner.
13. Contractor shall submit a three-week (man-loaded work activity and area) to Construction Manager each week. Contractor's representative shall attend a weekly meeting with all contractors, chaired by Construction Manager, for the purpose of job coordination and sequencing.
14. Contractor is responsible to coordinate the job with other trades and Construction Manager, and to cooperate with other trades in pursuit of the overall project's coordination drawings and actively participate in resolving discrepancies, conflicts, interferences, etc.
15. The Contractor shall take special care in verifying that his equipment matches the characteristics of the power being supplied.

16. Any Contractor personnel including Project Managers, Supervisors, etc. who engage in any personal attacks, belligerent or threatening speech/texts, etc., to the Architect, Construction Manager, Owner, or any of their agents, will be removed from working on the project.
17. Unsafe practices, horseplay, abusive behavior or language, wanton destruction of property, use of drugs or alcohol, possession of firearms, and solicitation shall not be tolerated. There will be no warnings, and the Prime Contractor shall designate a responsible on-site Supervisor to handle situations that may arise. including termination.
18. Each Contractor is responsible to supply and install all blocking/bracing necessary to properly secure their work. This responsibility includes coordinating the installation in concealed areas without delaying other trades.
19. Union business shall not be conducted on site. Any Union representative that visits the site must declare what Contractor's personnel they represent, and must be escorted by that Contractor's Union steward at all times. No visitors, sales representatives or non-working personnel shall be permitted on site without prior consent of the Construction Manager. No photographs shall be taken without the Construction Manager's prior approval.
20. Contractor shall provide protection from damage to adjacent and adjoining work and/or structures. Contractor shall clean, repair and/or replace any damage for which this Contractor is responsible.
21. Contractor shall submit hourly rate sheets that would apply to time and material work for all pertinent trades upon Award of Contract.
22. Contractor shall examine surfaces and conditions prior to start of work. Report unacceptable conditions to the Construction Manager. Do not proceed until unacceptable conditions are corrected and acceptable. Starting work implies acceptance of existing conditions.
23. Each Prime Contractor shall include general housekeeping of light debris. All debris from each Prime Contractor will be collected daily and disposed of into their dumpsters. In addition to daily general housekeeping, the General Work Contractor shall provide a weekly broom sweep and damp mop of all areas for the entire duration of the project. The broom sweep shall include debris from all trades working on site.
24. Prior to commencing the work, each Contractor shall provide written acceptance of grades, structures, substrates, and/or systems installed by other Contractors as suitable for installation of his work. Failure to provide this verification prior to commencing work shall constitute acceptance of the existing conditions.
25. Each Contractor shall coordinate with the Construction Manager for lay down areas, staging areas, and overall use of project site.
26. No recycled import fill materials are permitted.

CSArch  
Project No. 228-2401.03

Washingtonville Central School District  
2024 Capital Project Phase 3

PART 2 – PRODUCTS (NOT APPLICABLE)

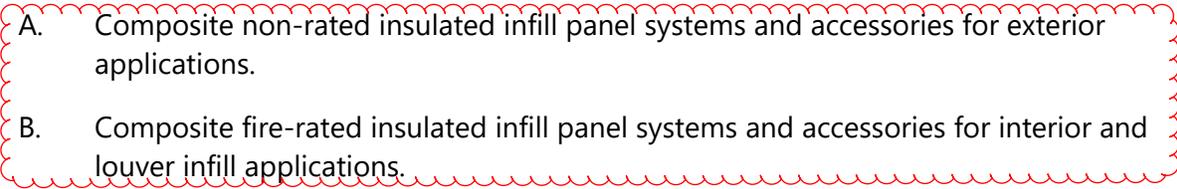
PART 3 – EXECUTION (NOT APPLICABLE)

END OF SECTION 011000

## SECTION 074243 - COMPOSITE INFILL PANELS

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- 
- 2
- A. Composite non-rated insulated infill panel systems and accessories for exterior applications.
  - B. Composite fire-rated insulated infill panel systems and accessories for interior and louver infill applications.

#### 1.2 RELATED REQUIREMENTS

- A. Section 072500 - Weather Barriers.
- B. Section 099100 - Painting

#### 1.3 REFERENCES

- A. AAMA 509 - Voluntary Test and Classification Method for Drained and Back Ventilated Rainscreen Wall Cladding Systems; 2022.
- B. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2020.
- C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- D. ASHRAE Std 90.1 I-P - Energy Standard for Buildings Except Low-Rise Residential Buildings; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- F. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
- G. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- H. ASTM C1186 - Standard Specification for Flat Fiber-Cement Sheets; 2022, with Editorial Revision (2023).
- I. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023c.

- J. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2022.
- K. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021).
- L. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- M. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components; 2023.

#### 1.4 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate layout, panel locations, and configuration.
  - 1. Indicate size, spacing, and location of support and attachment components, connections, and types and locations of fasteners.
  - 2. Indicate necessary provisions for structural and thermal movement between wall panel system and adjacent materials.
  - 3. Indicate locations and sizes of penetrations through wall panel system for Architect's approval.
- C. Samples: Submit two samples of each style and color panel, 12 by 12 inches in size and showing finish color, sheen, and texture.
- D. Manufacturer's Instructions: Include instructions for storage, handling, preparation, and product installation.
- E. Manufacturer's Field Reports: Submit weekly reports of site inspection conducted by manufacturer's qualified installer.
- F. Manufacturer's qualification statement.
- G. Installer's qualification statement.
- H. Maintenance Data: Periodic inspection recommendations and maintenance procedures.
- I. Executed panel manufacturer's warranty.
- J. Executed finish warranty.
- K. Executed installation warranty.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least ten years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified in this section with minimum three years of documented experience and approved by manufacturer.

#### 1.6 MOCK-UPS

- A. See Section 014000 - Quality Requirements for additional requirements.
- B. Construct mock-up of each panel type. Include panel materials, attachments, anchors, trim and termination accessories, and perimeter sealant.
- C. Locate where directed.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store materials with labels intact in manufacturer's unopened packaging until ready for installation.
- B. Store products under waterproof cover, well ventilated, and elevated above grade on flat surface.
- C. Protect materials from harmful environmental elements, construction dust, direct sunlight, and other potentially detrimental conditions.

#### 1.8 FIELD CONDITIONS

- A. Do not install panels when air temperature or relative humidity are outside manufacturer's limits.

#### 1.9 WARRANTY

- A. Manufacturer Warranty: Provide 2-year manufacturer warranty for panels. Complete forms in Owner's name and register with manufacturer.
- B. Finish Warranty: Provide 5-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. All Weather Insulated Panels; [www.awipanel.com/#sle](http://www.awipanel.com/#sle)

- B. Centria, A Nucor Company; [www.centria.com/#sle](http://www.centria.com/#sle)
- C. Citadel Architectural Products; [www.citadelap.com/#sle](http://www.citadelap.com/#sle)
- D. Mapes Industries, Inc.; [www.mapespanels.com/#sle](http://www.mapespanels.com/#sle)
- E. Metl Span, A Nucor Company; [www.metlspan.com/#sle](http://www.metlspan.com/#sle)
- F. Nudo, A Verzatec Company; [www.nudo.com/#sle](http://www.nudo.com/#sle).
- G. Substitutions: See Section 016000 - Product Requirements.

## 2.2 COMPOSITE INFILL PANELS (NON-RATED)

- A. Panel Style: Non-rated with insulating core, manufactured between exterior and interior substrates, and exterior and interior finishes, for exterior window, storefront, and curtain wall applications.
  - 1. Height: As indicated on drawings
  - 2. Length: As indicated on drawings
  - 3. Thickness: 3" minimum, 1" unit with 2" rabbet edge backer panel.
  - 4. Core Material: Polyisocyanurate Insulation (minimum R-6 per inch).
  - 5. Substrate Material:
    - a. Interior Substrate (Building Side): Tempered Hardboard, minimum 1/8" thickness.
    - b. Exterior Substrate (Outdoor Side): Corrugated polypropylene.
  - 6. Finish Materials:
    - a. Interior Finish (Building Side):
      - 1) Standard 0.032-inch thick polyvinylidene fluoride (PVDF) finish. Color to be selected by Architect from full range.
    - b. Exterior Finish (Outdoor Side):
      - 1) Standard 0.032-inch thick polyvinylidene fluoride (PVDF) finish. Color to be selected by Architect from full range.

## 2.3 COMPOSITE INFILL PANELS (FIRE RATED)

- A. Panel Style: Fire-rated with insulating core, manufactured between exterior and interior substrates, and exterior and interior finishes, for interior and louver infill applications.
  - 1. Height: As indicated on drawings
  - 2. Length: As indicated on drawings
  - 3. Thickness: 1" minimum
  - 4. Core Material: Polystyrene Insulation (minimum R-4.8 per inch).
  - 5. Substrate Material:
    - a. Interior Substrate (Corridor Side): 5/8" Type X gypsum wall board.
    - b. Exterior Substrate (Room Side): Tempered Hardboard, minimum 1/8" thickness.

6. Finish Materials:
  - a. Interior Finish (Corridor Side):
    - 1) For Mechanical Rooms, Electrical Rooms, Custodial Closets, and Storage Rooms: Paint on specified substrate. Color to be selected by Architect from full range.
    - 2) For All Other Spaces: Baked Enamel on specified substrate. Color to be selected by Architect from full range.
  - b. Exterior Finish (Room Side):
    - 1) For Mechanical Rooms, Electrical Rooms, Custodial Closets, and Storage Rooms: Paint on specified substrate. Color to be selected by Architect from full range.
    - 2) For All Other Spaces: Baked Enamel on specified substrate. Color to be selected by Architect from full range.
7. Fire Performance: 20-Minute Fire Rated when tested in accordance with ASTM E119.
8. Panel Surface Burning Characteristics: Class A Fire Rated when tested in accordance with ASTM E84.

## 2.4 ACCESSORIES

- A. Concealed Clip System: Manufacturer's standard system consisting of starter tracks, panel clips, corner clips, sealant backers, and spacers.
- B. Exposed Fastener System: Corrosion-resistant; panel manufacturer's standard for installation indicated.
- C. Furring Strips: Galvanized metal channels.
- D. Trim: Same material and texture as panel.
- E. Metal Trim: Extruded aluminum, ASTM B221.
  1. Dimension and Layout: As indicated on drawings.
  2. Finish: Powder coating.
  3. Color: As selected by Architect.
- F. Flashing: Manufacturer's standard sheet aluminum; finish and color to match panels.
- G. Sealant: ASTM C920, Class 35, elastomeric, polyurethane or silyl-terminated polyether/polyurethane, and capable of being painted.
- H. Finish Paint: Latex house paint acceptable to wall panel manufacturer; primer recommended by paint manufacturer.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Examine substrate; clean and repair as required to eliminate conditions detrimental to proper installation.
- B. Verify that water-resistive barrier has been properly installed and approved.
- C. Do not begin installation until unacceptable conditions have been corrected.

### 3.2 PREPARATION

- A. Touch up field cut edges before installing.
- B. Protect surrounding areas and adjacent surfaces from damage during execution of this work.

### 3.3 INSTALLATION

- A. Install cladding in accordance with manufacturer's installation instructions and approved shop drawings.
- B. Panels:
  - 1. Install in accordance with manufacturer's instructions.
  - 2. Install wall panels with manufacturer's recommended concealed attachment system.
  - 3. Allow space for thermal movement at ends of wall panels that butt against trim; seal joint between panel and trim.
- C. After installation, seal joints. Include joints around penetrations and between wall panels and adjacent construction.
- D. Paint exposed cut edges.

### 3.4 CLEANING

- A. See Section 017000 - Execution and Closeout Requirements for additional requirements.
- B. Remove temporary covers and strippable films before installation of panels. Where film occurs on both sides of panels, remove film from both sides simultaneously.
- C. Clean exposed work upon completion of installation; remove grease and oil films, excess joint sealer, handling marks, and debris. Leave work clean, unmarked, and free from dents, creases, waves, scratch marks, or other damage to finish.

### 3.5 PROTECTION

- A. Protect installed products until Date of Substantial Completion.

END OF SECTION 074243

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## SECTION 088000 - GLAZING

### 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. Glass for doors.
  - 2. Glass for aluminum windows and storefront framing.
  - 3. Glazing sealants and accessories.

#### 1.3 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.
- C. IBC: International Building Code.
- D. Interspace: Space between lites of an insulating-glass unit.

#### 1.4 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

#### 1.5 PREINSTALLATION MEETINGS

- A. Pre-installation Conference: Conduct conference at Project site.
  - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 2. Review temporary protection requirements for glazing during and after installation.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches (300 mm) square.
- C. Glazing Accessory Samples: For sealants and colored spacers, in 12 inch (300 mm) lengths. Install sealant Samples between two strips of material representative in color of the adjoining framing system.
- D. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
- E. Delegated-Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturers of insulating-glass units with sputter-coated, low-E coatings.
- B. Product Certificates: For glass.
- C. Product Test Reports: For insulating glass and glazing sealants, for tests performed by a qualified testing agency.
  - 1. For glazing sealants, provide test reports based on testing current sealant formulations within previous 36 month period.
- D. Preconstruction adhesion and compatibility test report.
- E. Sample Warranties: For special warranties.

1.8 QUALITY ASSURANCE

- A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved by coated-glass manufacturer.
- B. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.
- C. Glass Testing Agency Qualifications: A qualified independent testing agency accredited according to the NFRC CAP 1 Certification Agency Program.

- D. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.

#### 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

#### 1.10 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
  - 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F (4.4 deg C.)

#### 1.11 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
  - 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.
  - 1. Warranty Period: 10 years from date of Substantial Completion.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

1. Basis-of-Design Product: Subject to compliance with requirements, provide Vitro Architectural Glass; products or comparable products by one of the following:
  - a. Guardian Industries Corp.; SunGuard.
  - b. Oldcastle Building Envelope.
  - c. Viracon, Inc.
- B. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.
  1. Obtain tinted glass from single source from single manufacturer.
  2. Obtain reflective-coated glass from single source from single manufacturer.
- C. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.

## 2.2 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design glazing.
- C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the 2020 NYS Building Code and ASTM E 1300.
  1. Design Wind Pressures: Determine design wind pressures applicable to Project according to ASCE/SEI 7, based on heights above grade indicated on Drawings.
    - a. Wind Design Data: Refer to 2020 NYS Building Code Section 1603.1.4.
  2. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch (25 mm), whichever is less.
- D. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- E. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
  1. For monolithic-glass lites, properties are based on units with lites of thickness indicated.
  2. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.

3. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F (W/sq. m x K.)
4. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
5. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

## 2.3 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
  1. GANA Publications: "Glazing Manual."
  2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.
- D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.
  1. Minimum Glass Thickness for Exterior Lites: 6 mm.
- E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

## 2.4 GLASS PRODUCTS

- A. Clear Annealed Float Glass: ASTM C 1036, Type I, Class 1 (clear), Quality-Q3.
- B. Heat-Strengthened Float Glass: ASTM C 1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
  1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.

## 2.5 LAMINATED GLASS

- A. Laminated Glass: ASTM C 1172. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
1. Construction: Laminate glass with polyvinyl butyral interlayer to comply with interlayer manufacturer's written instructions.
  2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
  3. Interlayer Color: Clear unless otherwise indicated.

## 2.6 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.
1. Sealing System: Dual seal, with polyisobutylene and silicone primary and secondary sealants.
  2. Spacer: Aluminum with mill or clear anodic finish.
  3. Desiccant: Molecular sieve or silica gel, or a blend of both.

## 2.7 GLAZING SEALANTS

- A. General:
1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
  2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
  3. Field-applied sealants shall have a VOC content of not more than 250 g/L.
  4. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.
- B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.
1. Products: Subject to compliance with requirements, provide one of the following:
    - a. Dow Corning Corporation; 790.
    - b. GE Construction Sealants; Momentive Performance Materials Inc.; SCS2700 SilPruf LM.
    - c. May National Associates, Inc.; a subsidiary of Sika Corporation; Bondaflex Sil 290.
    - d. Pecora Corporation; 890NST.
    - e. Sika Corporation; SikaSil WS-290.

f. Tremco Incorporated; Spectrem 1.

## 2.8 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
  - 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
    - a. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- B. Grind smooth and polish exposed glass edges and corners.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:
  - 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
  - 2. Presence and functioning of weep systems.
  - 3. Minimum required face and edge clearances.
  - 4. Effective sealing between joints of glass-framing members.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
- B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

### 3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.

- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm.)
  - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
  - 2. Provide 1/8 inch (3 mm) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.
- J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
- K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.

### 3.4 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

### 3.5 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.

### 3.6 CLEANING AND PROTECTION

- A. Immediately after installation remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
  - 1. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.
- D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

### 3.7 LOW-E COATED INSULATED GLASS

- A. Glass Type CCL and "Insulated Glazing": Low-E-coated, clear insulating laminated glass.
1. Basis-of-Design Product: Vitro Architectural Glass, Solarban 60.
  2. Overall Unit Thickness: 1 inch.
  3. Outdoor Lite: Low-E-coated, clear laminated glass with two plies of heat-strengthened float glass.
    - a. Minimum Thickness of Each Glass Ply: 3 mm.
    - b. Interlayer Thickness: 0.030 inch.
  4. Interspace Content: Air.
  5. Indoor Lite: Clear laminated glass with two plies of heat-strengthened float glass.
    - a. Minimum Thickness of Each Glass Ply: 3 mm.
    - b. Interlayer Thickness: 0.030 inch (0.76 mm.)
  6. Low-E Coating: Sputtered on second surface.
  7. Winter Nighttime U-Factor: 0.48 maximum.
  8. Summer Daytime U-Factor: 0.51 maximum.
  9. Visible Light Transmittance: 65 percent minimum.
  10. Solar Heat Gain Coefficient: 0.37 maximum.
- B. For Type SG glass (as indicated on Drawings), provide glass Type CCL and "Insulated Glazing" as noted above, with Security Film specified in Section 088723

### 3.8 LAMINATED GLASS SCHEDULE

- A. Glass Type LM and "Laminated Glazing": Clear laminated glass.
1. Heat-Treated Laminated-Glass Units, Type 1
  2. Consisting of two lites of fully tempered float glass.
  3. Outer Lite: Clear laminated glass with two plies of heat-strengthened float glass.
    - a. Fully Tempered Glass.
    - b. Minimum Thickness of Each Glass Ply: 3 mm.
  4. Inner Lite: Clear laminated glass with two plies of heat-strengthened float glass.
    - a. Fully Tempered Glass.
    - b. Minimum Thickness of Each Glass Ply: 3 mm.
  5. Plastic Interlayer:
    - a. Interlayer: Polyvinyl butyral of thickness indicated with a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after laminating glass lites and installation.
    - b. Interlayer Color: Clear.

### 3.9 SPANDREL GLASS SCHEDULE

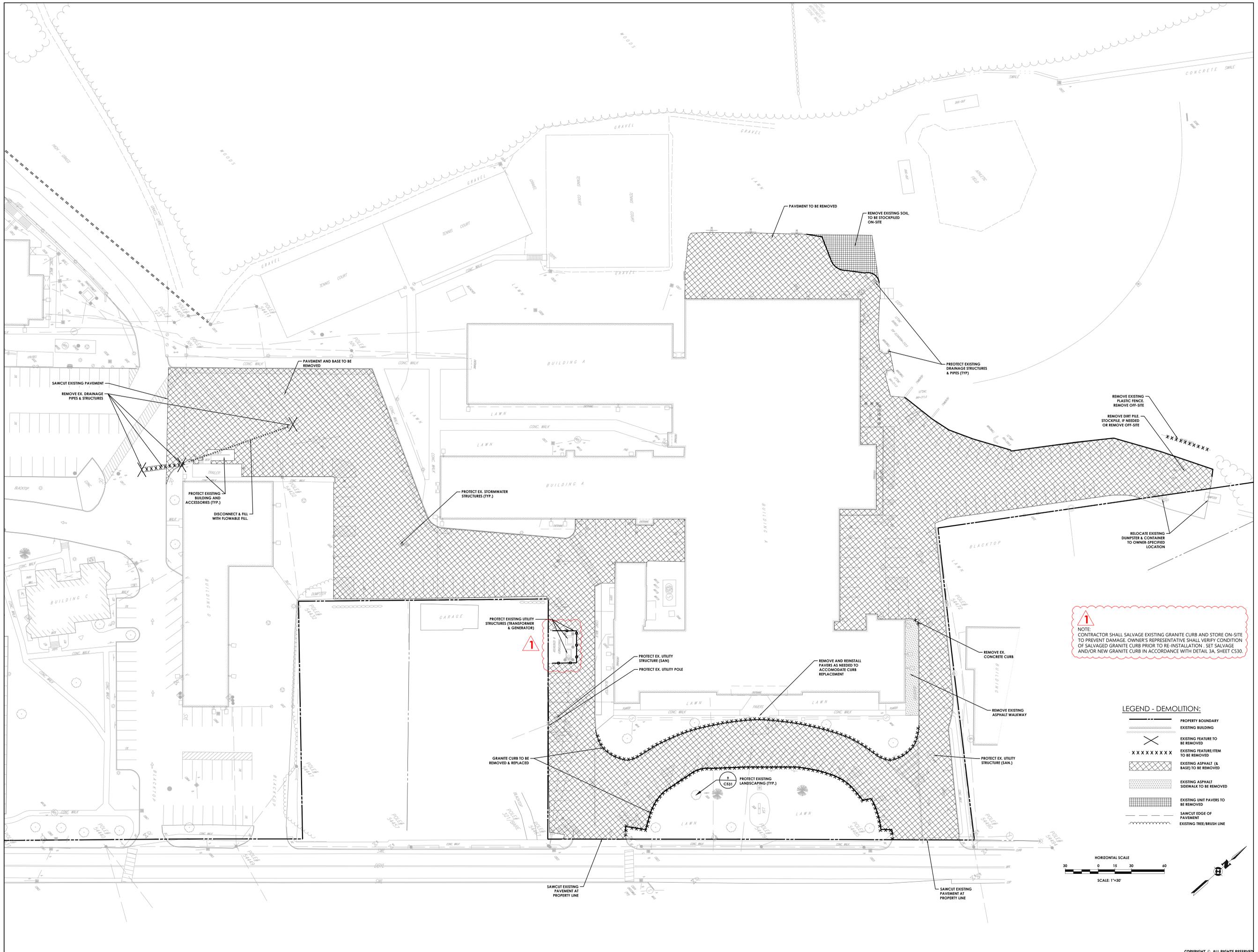
- A. Glass Type SP and "Spandrel Glazing": Coated view-obscuring glass
1. Monolithic Glass: Clear heat-treated fully tempered float glass.

2

- a. Minimum Thickness: 6 mm.
2. Coating: Manufacturers recommended water based coating.
  - a. Color: As selected from manufacturer's full range.
  - b. Location: Second surface of monolithic glass.
3. Visible Light Reflectance: 60 percent maximum (exterior).
4. Shading Coefficient: 0.30 minimum.

END OF SECTION 088000

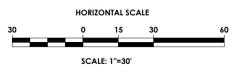
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**NOTE:**  
 CONTRACTOR SHALL SALVAGE EXISTING GRANITE CURB AND STORE ON-SITE TO PREVENT DAMAGE. OWNER'S REPRESENTATIVE SHALL VERIFY CONDITION OF SALVAGED GRANITE CURB PRIOR TO RE-INSTALLATION. SET SALVAGE AND/OR NEW GRANITE CURB IN ACCORDANCE WITH DETAIL 3A, SHEET C530.

**LEGEND - DEMOLITION:**

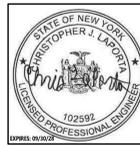
- PROPERTY BOUNDARY
- ▨ EXISTING BUILDING
- ✕ EXISTING FEATURE TO BE REMOVED
- XXXXXXX EXISTING FEATURE/ITEM TO BE REMOVED
- ▨ EXISTING ASPHALT (E.G. BASE) TO BE REMOVED
- ▨ EXISTING ASPHALT SIDEWALK TO BE REMOVED
- ▨ EXISTING UNIT PAVERS TO BE REMOVED
- - - SAWCUT EDGE OF PAVEMENT
- ~ EXISTING TREE/BRUSH LINE



THE EDUCATION LAW OF THE STATE OF NEW YORK, SECTION 1703(1)(b), REQUIRES THAT ALL ARCHITECTURAL DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS BE PREPARED BY OR UNDER THE DIRECTION OF A LICENSED ARCHITECT. WHERE SUCH ALTERATIONS ARE MADE, THE ARCHITECT SHALL SIGN AND SEAL, DATE AND DESCRIBE THE FULL NATURE AND EXTENT OF SUCH ALTERATIONS ON THE DRAWINGS AND/OR SPECIFICATIONS (NY EDUCATION LAW SECTION 1703(1)(b)).

**WASHINGTONVILLE CENTRAL SCHOOL DISTRICT  
 WASHINGTONVILLE MIDDLE SCHOOL  
 2024 CAPITAL PROJECT - PHASE 3**

Project Title



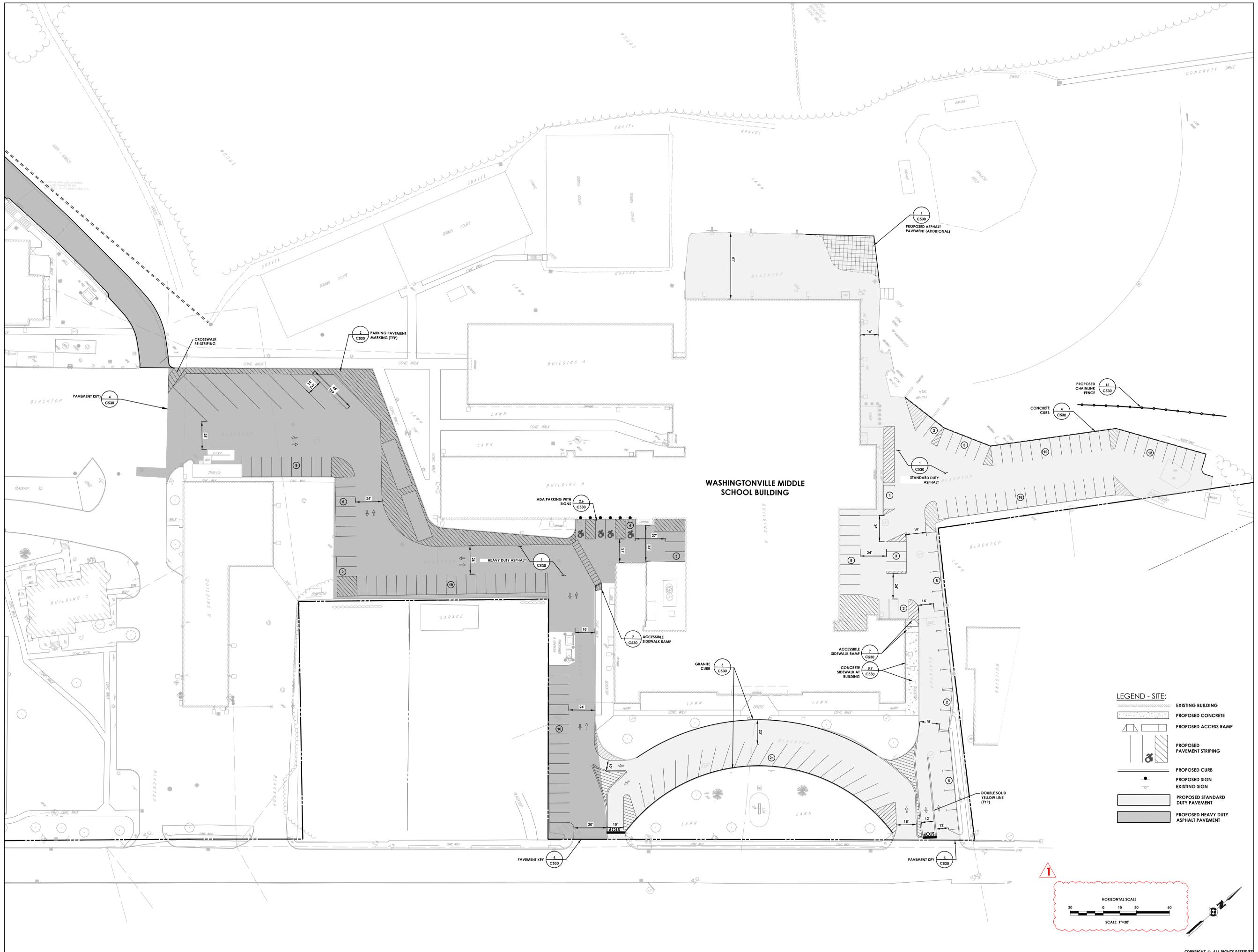
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Drawn By: 10  
 Checked By: 89  
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 CSArch Proj. #: 228-2401-03  
 Construction Documents: 12/12/23

Sheet Title

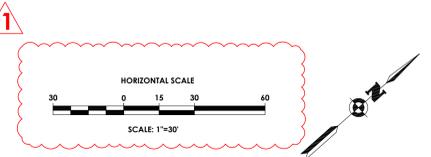
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 PLAN**

Sheet No.  
**WMS  
 C120**  
 CONSTRUCTION DOCUMENTS



**LEGEND - SITE:**

	EXISTING BUILDING
	PROPOSED CONCRETE
	PROPOSED ACCESS RAMP
	PROPOSED PAVEMENT STRIPING
	PROPOSED CURB
	PROPOSED SIGN
	EXISTING SIGN
	PROPOSED STANDARD DUTY PAVEMENT
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT



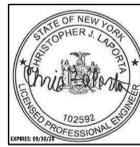
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engineering  
architecture

**WASHINGTONVILLE CENTRAL SCHOOL DISTRICT  
WASHINGTONVILLE MIDDLE SCHOOL  
2024 CAPITAL PROJECT - PHASE 3**

Project Title



NO.	DATE	DESCRIPTION
1	12/12/25	REVISED APPENDIX 2

Drawn By: [ ]  
Checked By: [ ]  
Proj. #: 44-01-02-06-0-001-023  
CSArch Proj. #: 228-2401.03  
Construction Documents: 12/12/25

Sheet Title

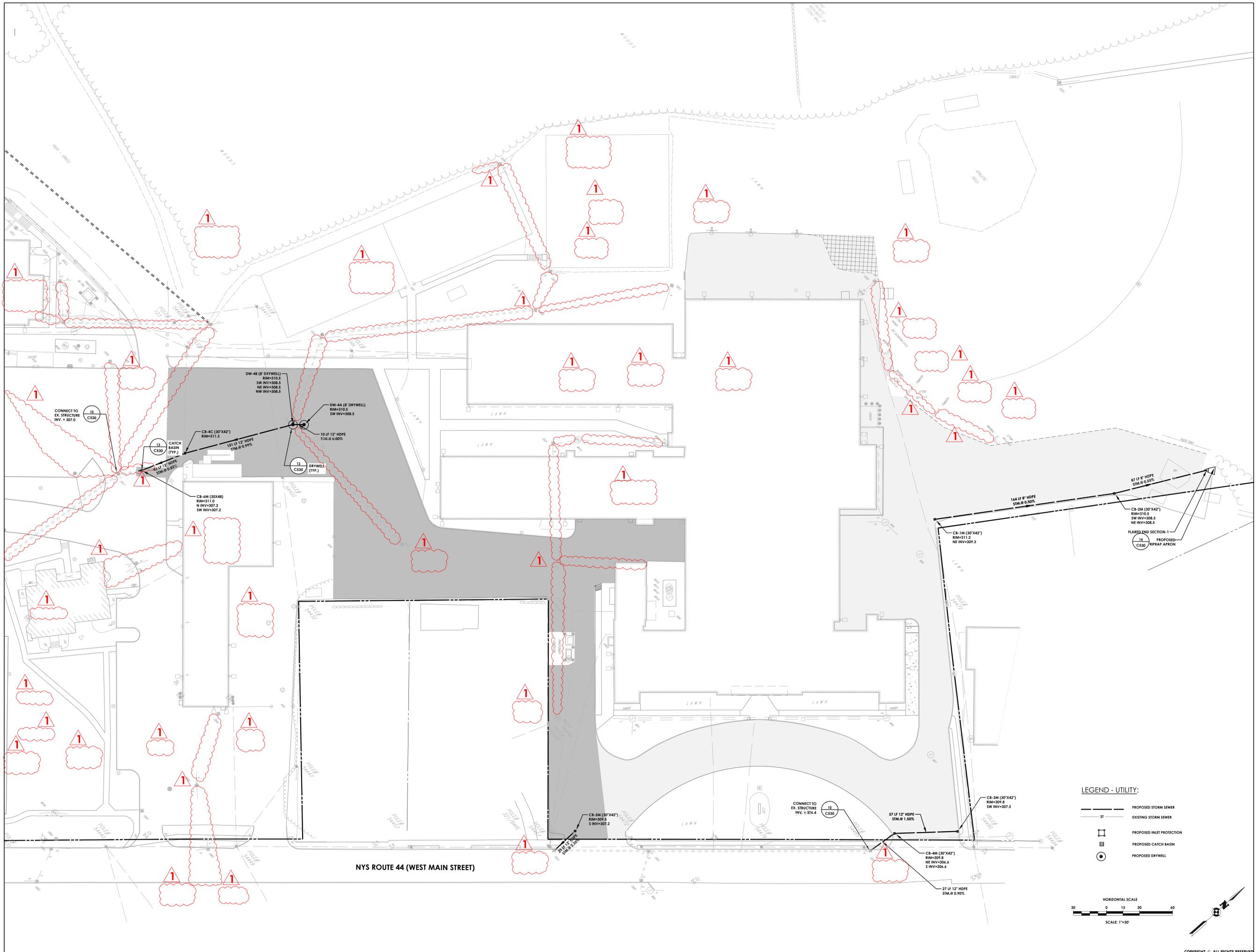
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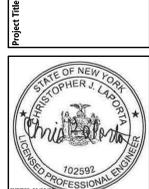
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CONSTRUCTION DOCUMENTS

**CSARCH**



**WASHINGTONVILLE CENTRAL SCHOOL DISTRICT  
WASHINGTONVILLE MIDDLE SCHOOL  
2024 CAPITAL PROJECT - PHASE 3**



NO.	DATE	DESCRIPTION
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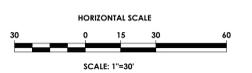
Drawn By: TO  
Checked By: 44-01-02-06-0-001-023  
Proj. #: 238-2401-03  
CSArch Proj. #: 12/12/25  
Construction Documents: 12/12/25

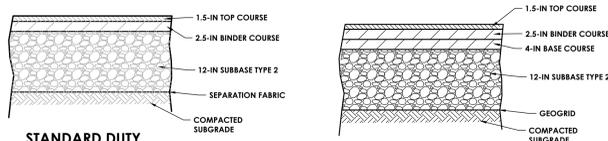
Sheet Title  
**UTILITY PLAN**

Sheet No.  
**WMS  
C150**  
CONSTRUCTION DOCUMENTS

**LEGEND - UTILITY:**

- ST — EXISTING STORM SEWER
- ST — PROPOSED STORM SEWER
- PROPOSED INLET PROTECTION
- PROPOSED CATCH BASIN
- PROPOSED DRYWELL

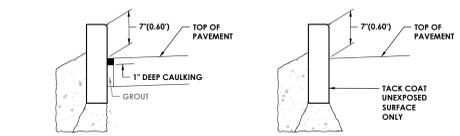




- STANDARD DUTY SECTION**
- HEAVY DUTY SECTION**
1. ALL DEPTHS ARE COMPACTED THICKNESS.
  2. MAXIMUM LIFT THICKNESS 4 INCHES.
  3. ALL MATERIALS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
  4. BINDER COURSE SHALL BE SWEEP CLEAR TO REMOVE ANY LOOSE MATERIAL PRIOR TO PLACING TOP COAT. IF TOP COURSE IS NOT PLACED WITHIN TWENTY FOUR HOURS OF BINDER PLACEMENT, A TACK COAT SHALL BE APPLIED TO CLEAN SURFACE PRIOR TO PLACEMENT OF TOP COURSE.

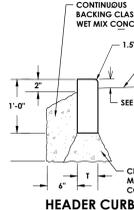
**1 PAVEMENT SECTIONS**  
N.T.S.

**CURB AT RIGID PAVEMENT**

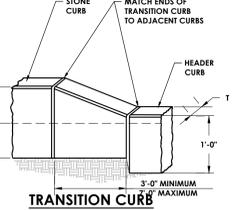


**CURB AT RIGID PAVEMENT**

**CURB AT FLEXIBLE BASE PAVEMENT**



**HEADER CURB**

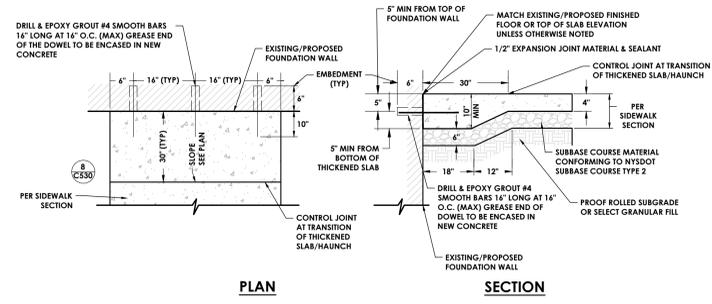


**TRANSITION CURB**

- NOTES:**
1. CURB THICKNESS IS TO BE 6" OR AS INDICATED ON THE DRAWINGS.
  2. PROVIDE 6" CURB REVEAL FOR HEADER CURB AT SIDEWALK RAMPS AND 1" CURB REVEAL FOR HEADER CURB AT DRIVEWAYS.
  3. ALL CURB, EXCEPT HEADER CURB USED FOR THE SIDEWALK ACCESS RAMPS IS TO HAVE THE 1.5" RADIUS.
  4. RE-USE GRANITE BLOCKS, IF POSSIBLE, FOR RE-INSTALLATION.

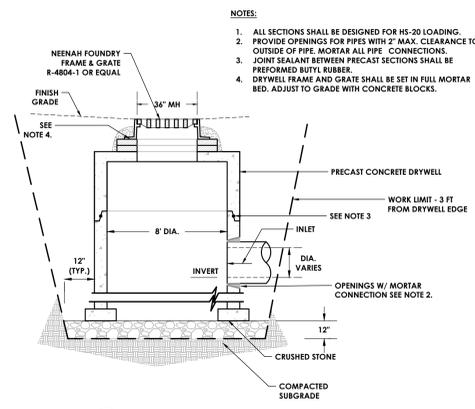
**STONE GRANITE CURB**

**5 STONE (GRANITE) CURB**  
N.T.S.

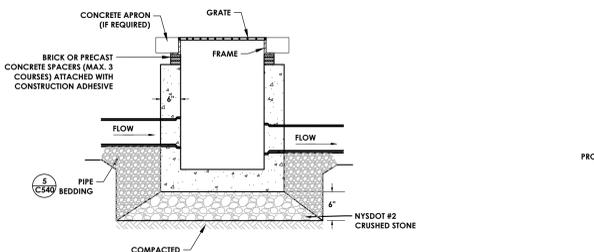


**8 CONCRETE SIDEWALK AT BUILDING ENTRANCES**  
N.T.S.

- NOTES:**
1. THICKENED (HAUNCH) & ADDITIONALLY REINFORCED CONCRETE SIDEWALK ENDS ARE REQUIRED AT ALL EXISTING/PROPOSED BUILDING ENTRANCES.
  2. SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL DETAILS & NOTES

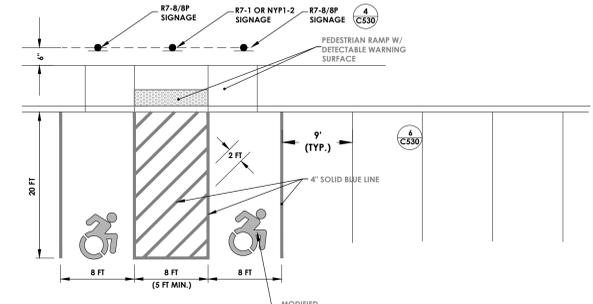


**12 DRYWELL DETAIL**  
N.T.S.

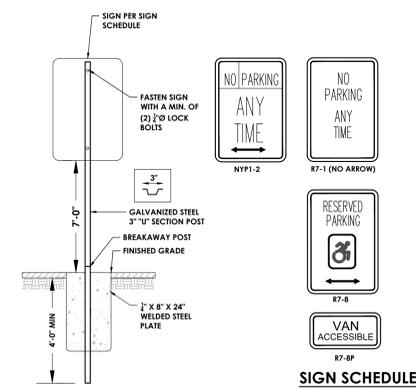


**13 STANDARD CATCH BASIN DETAIL**  
N.T.S.

- NOTES:**
1. ALL CONCRETE IN CONTACT WITH ASPHALT PAVEMENT SHALL HAVE A TACK COAT INSTALLED AT THE CONCRETE/ASPHALT INTERFACE.
  2. CATCH BASINS IN PEDESTRIAN WALKWAYS AND BICYCLE AREAS SHALL HAVE ADA COMPLIANT GRATES, OTHERWISE SHALL HAVE RETICULINE GRATES WITH THE LENGTH OF THE GRATE PARALLEL TO THE SURFACE FLOW.
  3. CATCH BASIN SHALL BE PRECAST CONCRETE DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
  4. FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
  5. CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE TOP OF THE CONCRETE BASE SHALL BE PROVIDED WITH MANHOLE STEPS.
  6. SUBGRADE SHALL BE COMPACTED TO A FIRM, UNYIELDING STATE PRIOR TO PLACEMENT OF ANY MATERIALS ABOVE IT. A WATER-PERMEABLE SEPARATION FABRIC SHALL BE INSTALLED BETWEEN THE SUBGRADE AND STONE MATERIALS.

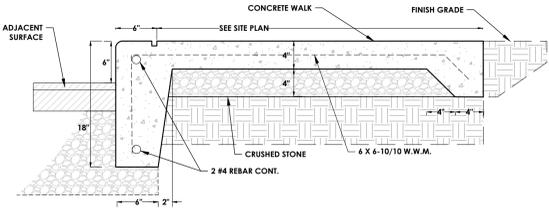


**2 TYPICAL PAVEMENT MARKING DETAIL AND LAYOUTS**  
N.T.S.

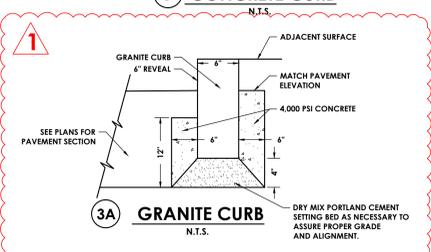


**6 SIGN & MOUNTING DETAIL WITH SCHEDULE**  
N.T.S.

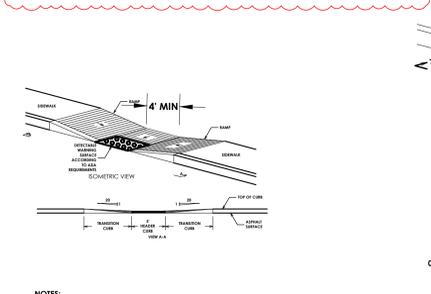
- NOTES:**
1. 1:12 IS MAXIMUM SLOPE OF ACCESS RAMP AND SIDE FLARES.
  2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
  3. DETECTABLE WARNING SURFACE SHALL BE A MINIMUM OF 2 FEET IN THE DIRECTION OF TRAVEL, AND THE FULL WIDTH OF THE CROSSING UNLESS OTHERWISE SPECIFIED. COLOR AND MATERIAL TO BE SELECTED BY OWNER.



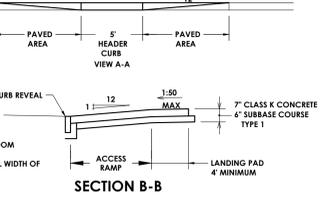
**9 CONCRETE CURB WITH INTEGRAL SIDEWALK**  
N.T.S.



**3A GRANITE CURB**  
N.T.S.

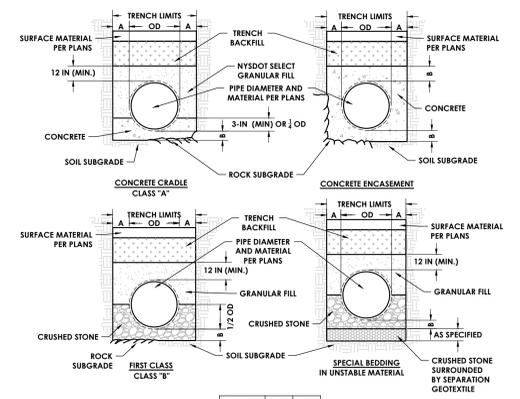


**ACCESS RAMP ISOMETRIC**



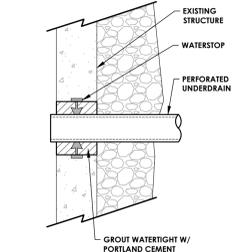
**SECTION B-B**

**7 SIDEWALK RAMP DETAIL**  
N.T.S.

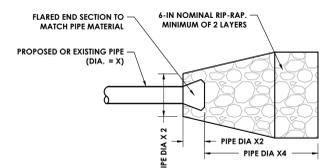


**11 STORM SEWER/SANITARY SEWER BEDDING DETAILS**  
N.T.S.

- NOTES:**
1. TRENCH BACKFILL SHALL GRANULAR FILL, OR SUITABLE NATIVE SOIL APPROVED BY THE ENGINEER AND SHALL BE COMPACTED.
  2. SUBGRADE ON TRENCH BOTTOM SHALL BE COMPACTED TO A FIRM, UNYIELDING STATE PRIOR TO PLACEMENT OF ANY MATERIALS ABOVE IT.

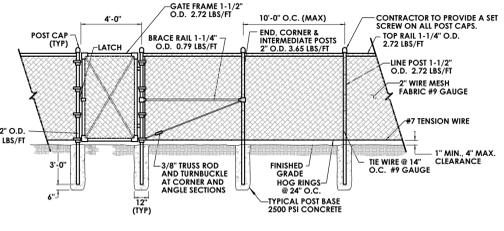


**10 CONNECTION TO EXISTING STRUCTURE DETAIL**  
N.T.S.



**14 FLARED END SECTION AND STONE RIP-RAP DETAIL**  
N.T.S.

- NOTES:**
1. RIP RAP SHALL BE PLACED ON 4" THICK BEDDING MATERIAL MEETING NYSDOT STANDARD SPECIFICATION SECTION 620 - COARSE AGGREGATE FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIAL AND THIN OR ELONGATED PARTICLES (703-02).
  2. FLARED END SECTION SHALL BE CONNECTED TO PIPE PER MANUFACTURER'S RECOMMENDATIONS.

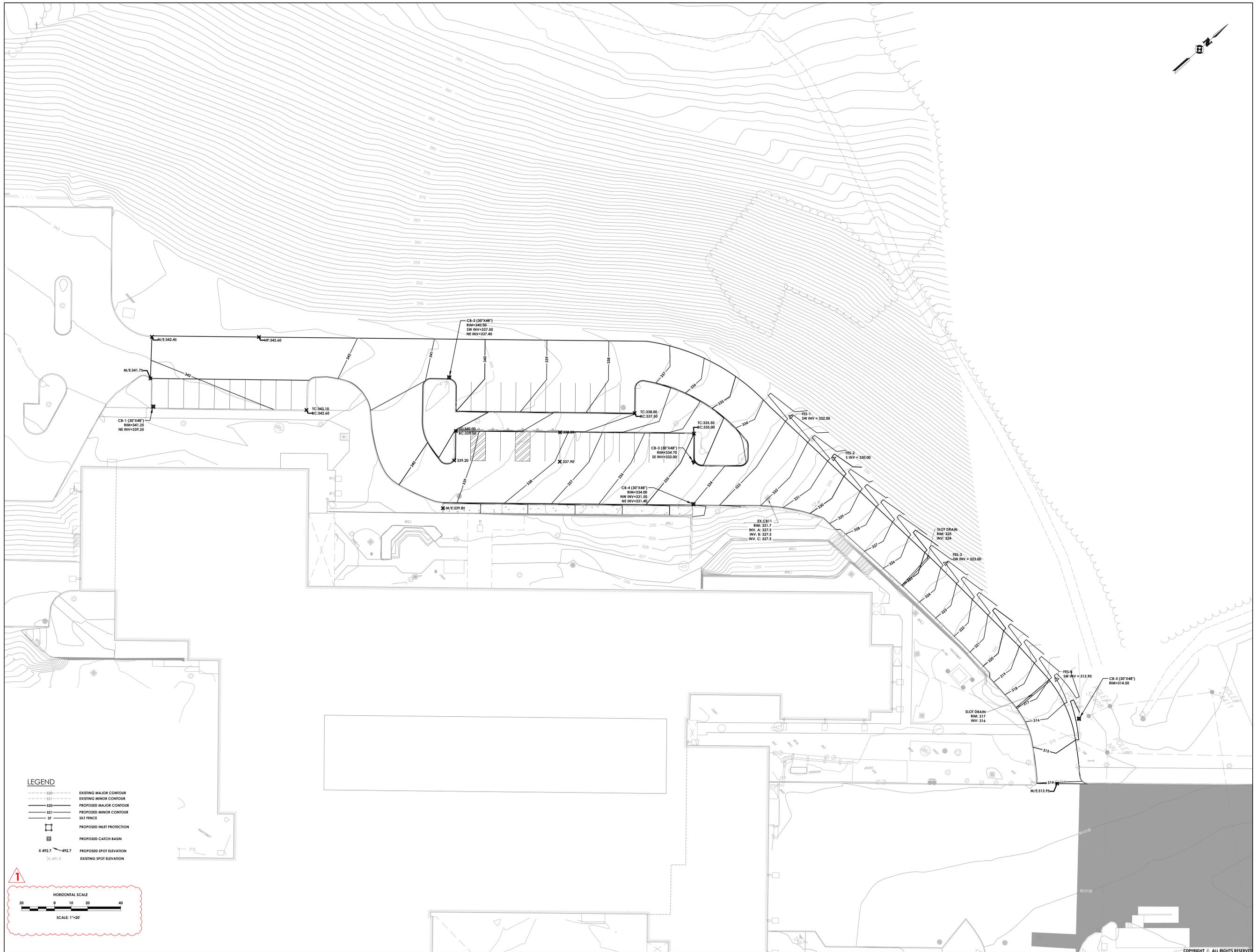


**15 4' HIGH CHAIN-LINK FENCE**  
N.T.S.

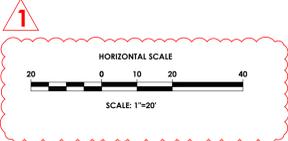
- NOTES:**
- 1) THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR GATES AND ADJACENT CHAIN LINK FENCE TO THE ENGINEER. NO FENCE OR GATES SHALL BE ERECTED PRIOR TO APPROVAL OF THE DETAILS.
  - 2) THE FENCE AND ALL COMPONENTS SHALL BE CONSTRUCTED OF GALVANIZED STEEL.

NO.	DATE	DESCRIPTION
1	01-08-2024	ISSUED FOR PERMIT
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Drawn By: TO  
Checked By: RV  
Proj. #: 44-01-02-06-001-023  
CSArch Proj. #: 238-2401-03  
Construction Documents: 12/17/25



- LEGEND**
- 520 --- EXISTING MAJOR CONTOUR
  - 521 --- EXISTING MINOR CONTOUR
  - 522 --- PROPOSED MAJOR CONTOUR
  - 523 --- PROPOSED MINOR CONTOUR
  - SF --- SILT FENCE
  - PROPOSED INLET PROTECTION
  - PROPOSED CATCH BASIN
  - X 492.7 492.7 PROPOSED SPOT ELEVATION
  - X 491.5 491.5 EXISTING SPOT ELEVATION



THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON FROM PREPARING OR PREPARING TO PREPARE ARCHITECTURAL, ENGINEERING, SURVEYING, OR LANDSCAPE ARCHITECTURE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS FOR CONSTRUCTION OF ANY BUILDING OR STRUCTURE WITHOUT THE DIRECTION OF A LICENSED ENGINEER, ARCHITECT, SURVEYOR, OR LANDSCAPE ARCHITECT. WHERE SUCH ALTERATIONS ARE MADE, THE ENGINEER, ARCHITECT, SURVEYOR, OR LANDSCAPE ARCHITECT SHALL DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWING. (SECTION 2201-B, EDUCATION LAW SECTION 2201-B(2))

**WASHINGTONVILLE CENTRAL SCHOOL DISTRICT  
WASHINGTONVILLE HIGH SCHOOL  
2024 CAPITAL PROJECT - PHASE 3**

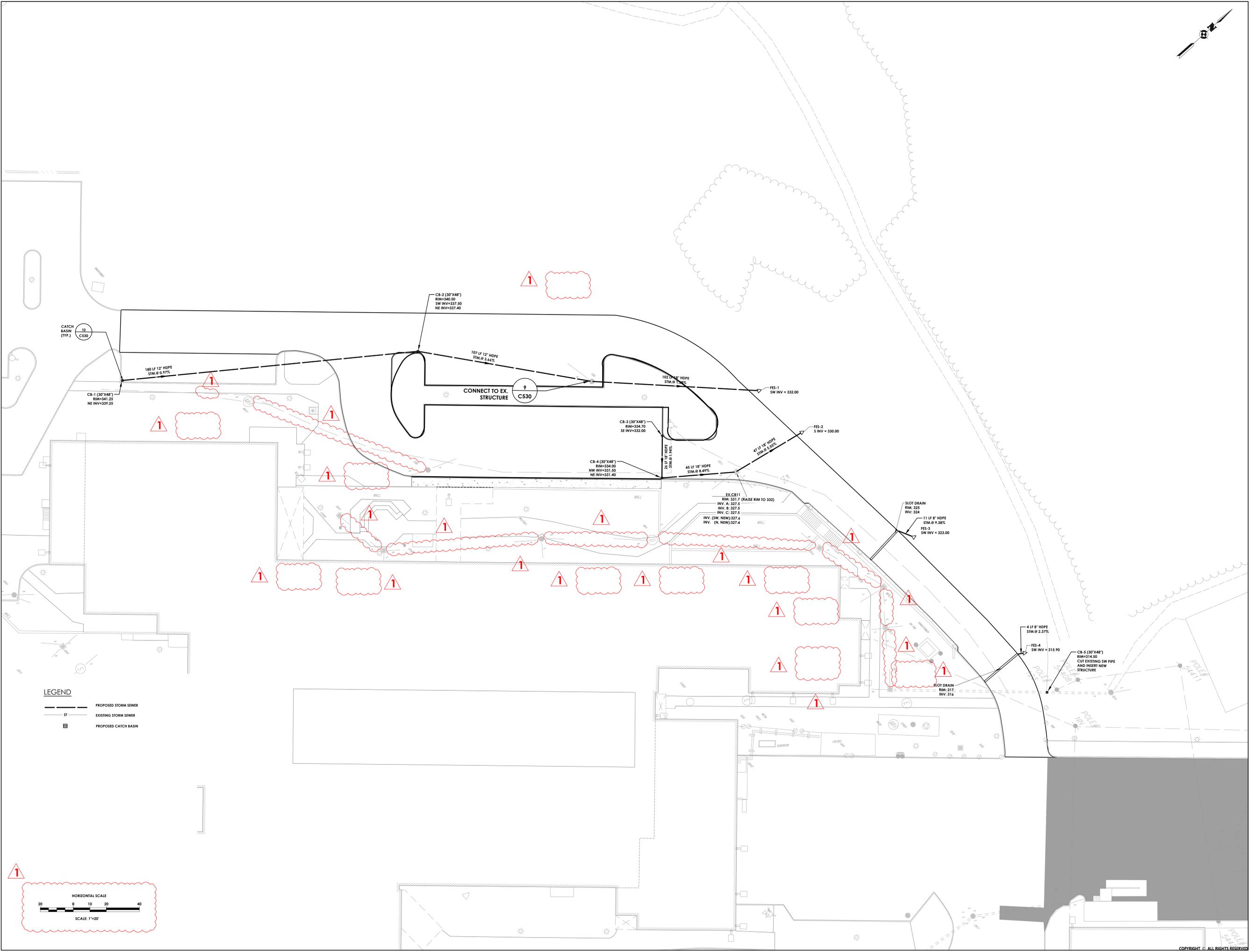


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Checked By: [Signature]  
Proj. #: 44-01-02-06-0-007-033  
CSArch Proj. #: 228-2401-03  
Construction Documents: 12/12/25

**GRADING,  
EROSION &  
SEDIMENT  
CONTROL PLAN**

Sheet No.  
**WHS  
C140**  
CONSTRUCTION DOCUMENTS

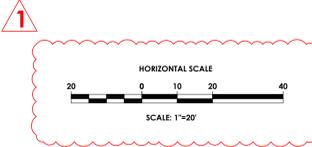


**LEGEND**

— ST — PROPOSED STORM SEWER

— ST — EXISTING STORM SEWER

▭ PROPOSED CATCH BASIN

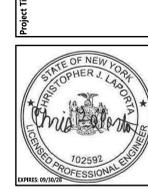


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845-581-13179 www.csaarch.com



THE EDUCATION LAW OF THE STATE OF NEW YORK AND THE EDUCATION LAW OF THE STATE OF NEW YORK REQUIRE THAT ALL ARCHITECTURAL DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS BE PREPARED BY AN ARCHITECT OR ARCHITECTS WHOSE NAMES ARE REGISTERED WITH THE STATE BOARD OF ARCHITECTS. WHERE SUCH ALTERATIONS ARE MADE, THE ARCHITECT SHALL DATE AND DESCRIBE THE FULL EXTENT OF THE ALTERATION ON THE DRAWING. (SECTION 208-B)

**WASHINGTONVILLE CENTRAL SCHOOL DISTRICT  
WASHINGTONVILLE HIGH SCHOOL  
2024 CAPITAL PROJECT - PHASE 3**



NO.	DATE	DESCRIPTION
1	12-06-20	REV. APPROVAL 7

Drawn By: **VC**

Checked By: **RV**

Proj. #: **44-01-02-06-0-007-033**

CSArch Proj. #: **238-240103**

Construction Documents: **12/12/25**

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Sheet Title

**UTILITY PLAN**

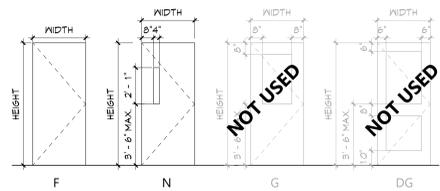
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Sheet No.

**WHS  
C150**

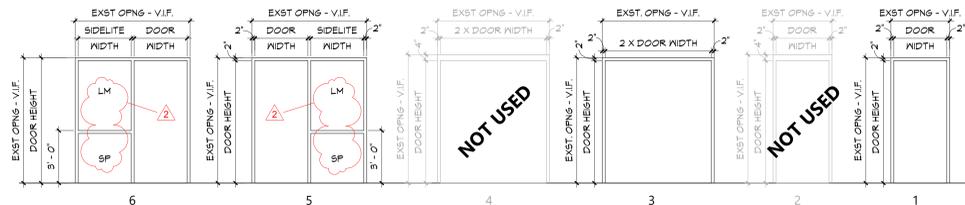
CONSTRUCTION DOCUMENTS

**CSARCH**



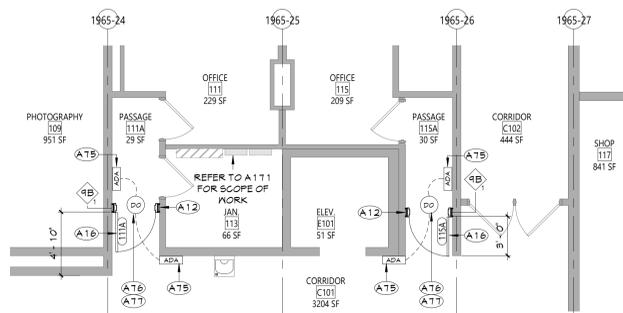
**DOOR TYPES**

Not to Scale

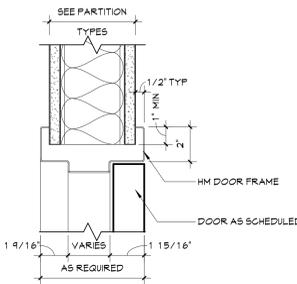


**DOOR FRAME TYPES**

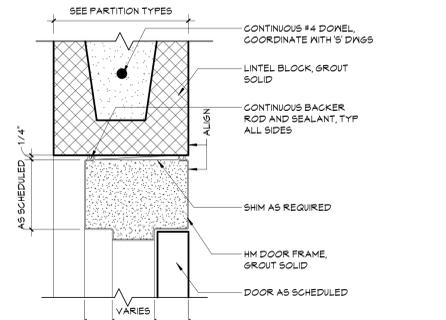
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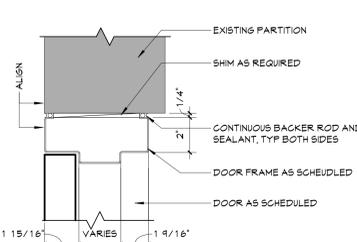
**12 CORRIDOR C101 - ENLARGED NEW WORK PLAN**  
A901 3/16" = 1'-0"



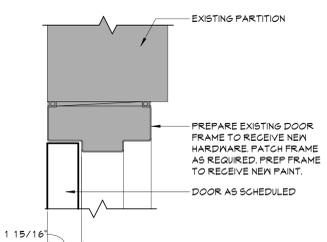
**11 HEAD DETAIL**  
A901 3" = 1'-0"



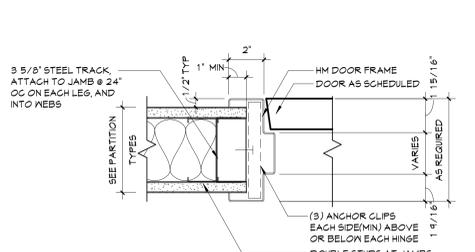
**10 HEAD DETAIL**  
A901 3" = 1'-0"



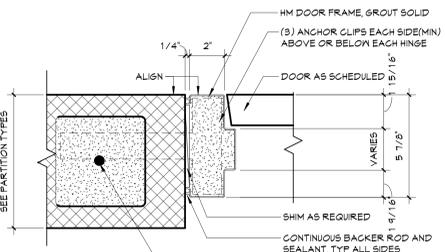
**9 HEAD DETAIL**  
A901 3" = 1'-0"



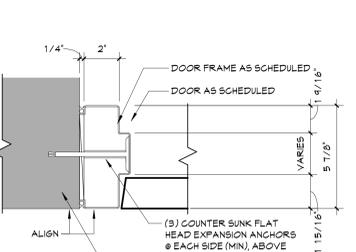
**8 HEAD DETAIL**  
A901 3" = 1'-0"



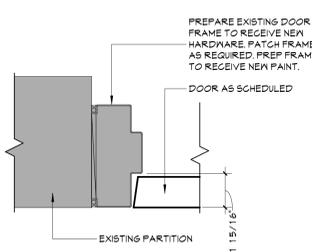
**7 JAMB DETAIL**  
A901 3" = 1'-0"



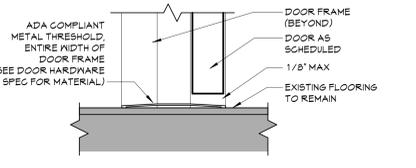
**6 JAMB DETAIL**  
A901 3" = 1'-0"



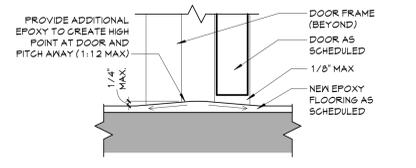
**5 JAMB DETAIL**  
A901 3" = 1'-0"



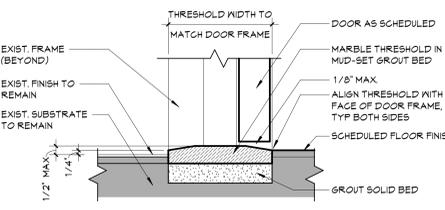
**4 JAMB DETAIL**  
A901 3" = 1'-0"



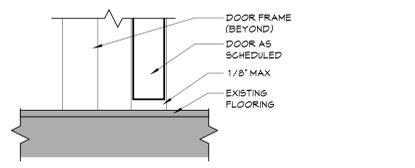
**3C THRESHOLD DETAIL**  
A901 3" = 1'-0"



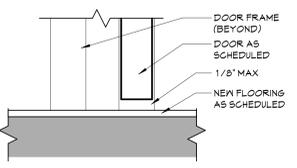
**3B THRESHOLD DETAIL**  
A901 3" = 1'-0"



**3A THRESHOLD DETAIL**  
A901 3" = 1'-0"



**2 SILL DETAIL**  
A901 3" = 1'-0"



**1 SILL DETAIL**  
A901 3" = 1'-0"

**PHASE 3 - DOOR SCHEDULE**

DOOR NUMBER	QUANTITY	DOOR		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	FRAME		HEAD DETAIL	JAMB DETAIL	SILL DETAIL	LABEL (MIN)	GLAZING	HARDWARE	REMARKS	DOOR NUMBER
		FROM	TO																			
<b>GROUND FLOOR</b>																						
111A	1	C101	CORRIDOR	111A	PASSAGE	3'-0"	7'-0"	1 3/4"	N	WD	FF	1	HM	PT	11/A901	7/A901	2/A901	20	FR	i1	2	111A
115A	1	C101	CORRIDOR	115A	PASSAGE	3'-0"	7'-0"	1 3/4"	N	WD	FF	1	HM	PT	11/A901	7/A901	2/A901	20	FR	i1	2	115A
164C	1	164	CAFETERIA A	-	EXTERIOR	3'-6"	7'-0"	1 3/4"	F	BRFP	FF	1	ALUM	ANOD	9/A901	5/A901	3/A901	-	-	e1	3	164C
166B	1	166	CAFETERIA B	-	EXTERIOR	3'-6"	7'-0"	1 3/4"	F	BRFP	FF	1	ALUM	ANOD	9/A901	5/A901	3/A901	-	-	e1	3	166B
168	1	168	CAFETERIA C	-	EXTERIOR	3'-0"	7'-0"	1 3/4"	F	BRFP	FF	1	ALUM	ANOD	9/A901	5/A901	3/A901	-	-	e1	3	168
T180	1	C108A	CORRIDOR	T180	TOILET	3'-0"	7'-11"	1 3/4"	F	WD	FF	EXST	HM	PT	8/A901	4/A901	3/A901	20	-	i3	1	T180
T180A	1	C108A	CORRIDOR	T180A	TOILET	3'-0"	7'-11"	1 3/4"	F	WD	FF	EXST	HM	PT	8/A901	4/A901	3/A901	20	-	i3	1	T180A
T190	1	C110	CORRIDOR	T190	GIRLS TOILET	3'-0"	7'-10"	1 3/4"	F	WD	FF	EXST	HM	PT	8/A901	4/A901	3/A901	20	-	i2	1	T190
T190A	1	C110	CORRIDOR	T190A	BOYS TOILET	3'-0"	7'-10"	1 3/4"	F	WD	FF	EXST	HM	PT	8/A901	4/A901	3/A901	20	-	i2	1	T190A
<b>SECOND FLOOR</b>																						
243A	1	V201	VESTIBULE	243	GIRLS LOCKER RM	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3/A901	20	-	i9	-	243A
243B	1	249	POOL AREA	243	GIRLS LOCKER RM	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3/A901	20	-	i4	-	243B
243BT	1	243B	SHOWERS	243BT	ADA TOILET	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	11/A901	7/A901	3B/A901	-	-	i7	-	243BT
243CA	1	243	GIRLS LOCKER RM	243C	STORAGE	3'-0"	7'-0"	1 3/4"	F	FRP	FF	EXST	ALUM	ANOD	8/A901	4/A901	3B/A901	-	-	i6	1	243CA
243CB	1	245	LOCKER ROOM STORAGE	243C	STORAGE	3'-0"	7'-0"	1 3/4"	F	FRP	FF	EXST	ALUM	ANOD	8/A901	4/A901	1/A901	-	-	i6	1	243CB
243D	1	243	GIRLS LOCKER RM	243D	CUSTODIAL	2'-10"	7'-0"	1 3/4"	F	FRP	FF	EXST	ALUM	ANOD	8/A901	4/A901	3B/A901	-	-	i6	1	243D
243E	1	243	GIRLS LOCKER RM	243E	STORAGE	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	1/A901	-	-	i8	-	243E
245	1	V201	VESTIBULE	245	LOCKER ROOM STORAGE	3'-8"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3/A901	20	-	i6	-	245
247A	1	V201	VESTIBULE	247	BOYS LOCKER RM	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3/A901	20	-	i9	-	247A
247B	1	249	POOL AREA	247	BOYS LOCKER RM	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3B/A901	20	-	i4	-	247B
247BT	1	247B	SHOWERS	247BT	ADA TOILET	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	10/A901	6/A901	3B/A901	-	-	i7	-	247BT
247CA	1	247	BOYS LOCKER RM	247C	STORAGE	3'-0"	7'-0"	1 3/4"	F	FRP	FF	EXST	ALUM	ANOD	8/A901	4/A901	3B/A901	-	-	i6	1	247CA
247CB	1	245	LOCKER ROOM STORAGE	247C	STORAGE	3'-0"	7'-0"	1 3/4"	F	FRP	FF	EXST	ALUM	ANOD	8/A901	4/A901	1/A901	-	-	i6	1	247CB
247D	1	247	BOYS LOCKER RM	247D	CUSTODIAL	2'-10"	7'-0"	1 3/4"	F	FRP	FF	EXST	ALUM	ANOD	8/A901	4/A901	3B/A901	-	-	i6	1	247D
249	1	249	POOL AREA	C205	CORRIDOR	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3/A901	20	-	i9	-	249
249A	2	249	POOL AREA	-	EXTERIOR	3'-0"	7'-0"	1 3/4"	F	FRP	FF	3	SS	#4	9/A901	5/A901	3C/A901	-	-	e2	-	249A
249AA	1	249	POOL AREA	249A	GIRLS P.E. OFFICE	3'-0"	7'-0"	1 3/4"	N	FRP	FF	5	SS	#4	9/A901	5/A901	3B/A901	20	FR	i5	-	249AA
249AB	1	243	GIRLS LOCKER RM	249A	GIRLS P.E. OFFICE	2'-8"	7'-0"	1 3/4"	F	FRP	FF	EXST	ALUM	ANOD	8/A901	4/A901	3B/A901	-	-	i5	1	249AB
249BA	1	249	POOL AREA	249B	BOYS P.E. OFFICE	3'-0"	7'-0"	1 3/4"	N	FRP	FF	6	SS	#4	9/A901	5/A901	3B/A901	20	FR	i5	-	249BA
249BB	1	249B	BOYS P.E. OFFICE	247	BOYS LOCKER RM	2'-8"	7'-0"	1 3/4"	F	FRP	FF	EXST	ALUM	ANOD	8/A901	4/A901	3B/A901	-	-	i5	1	249BB
249C	1	249	POOL AREA	249C	POOL MAINTENANCE ROOM	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3C/A901	20	-	i6	-	249C
249D	1	249D	FIRST AID	249	POOL AREA	2'-10"	7'-0"	1 3/4"	N	FRP	FF	1	SS	#4	9/A901	5/A901	3C/A901	20	FR	i12	-	249D
249E	1	249E	POOL M.E. RM	249C	POOL MAINTENANCE ROOM	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3C/A901	20	-	i6	-	249E
249EB	2	249E	POOL M.E. RM	-	EXTERIOR	3'-0"	7'-0"	1 3/4"	F	FRP	FF	3	SS	#4	9/A901	5/A901	3C/A901	20	-	e2	-	249EB
5-7	1	249	POOL AREA	5-7	STAIR	3'-0"	7'-0"	1 3/4"	N	FRP	FF	1	SS	#4	9/A901	5/A901	3C/A901	20	FR	i11	-	5-7
<b>THIRD FLOOR</b>																						
343A	1	343	SPECTATOR AREA	343A	TOILET	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3A/A901	-	-	i10	-	343A
343B	1	343	SPECTATOR AREA	343B	TOILET	3'-0"	7'-0"	1 3/4"	F	FRP	FF	1	SS	#4	9/A901	5/A901	3A/A901	-	-	i10	-	343B

**REMARKS:**

- PREPARE EXISTING DOOR FRAME TO ACCEPT NEW HARDWARE. REPAIR, PATCH, AND REFINISH EXISTING FRAME AS REQUIRED TO MATCH EXISTING. STRIP ANY EXISTING PAINT PRIOR TO REPAINTING THE FRAME. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PREP NEW DOORS AND FRAMES TO ACCEPT POWERED DOOR OPERATOR INSTALLATIONS WITH NEW ADA PADDLE SWITCHES/ACTUATORS, INCLUDING THE REQUIRED ELECTRICAL AND CONTROLS WIRING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- DOORS WILL BE PROVIDED IN NEW ALUMINUM STOREFRONT SYSTEM.

**GENERAL DOOR NOTES:**

- REFER TO SPECIFICATIONS FOR HARDWARE SETS.
- FIELD VERIFY ALL EXISTING OPENING DIMENSIONS.
- FIRE RATING OF EXISTING FRAMES TO REMAIN IS UNKNOWN. THE NEW DOOR SLAB SHALL BE RATED PER DOOR SCHEDULE.

**GLAZING TYPES**

GCL	LOW-E COATED, INSULATED GLASS
C1	CLEAR INSULATED GLASS
FR	FIRE RATED GLASS
FT	FULLY TEMPERED GLASS
LM	LAMINATED GLASS
SP	SPANDREL GLASS
SG	SECURITY GLAZING - LOW-E COATED, INSULATED GLASS (GCL) WITH SPECIFIED SECURITY FILM
BRIG	BALLISTIC RATED, INSULATED GLASS

**DOOR/FRAME MATERIALS**

ALUM	ALUMINUM
ANOD	ANODIZED
EXST	EXISTING TO REMAIN
FF	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PLASTIC
BRFP	BALLISTIC-RATED FIBERGLASS REINFORCED POLYMER
HM	HOLLOW METAL
PT	PAINTED
ST	STEEL
SS	STAINLESS STEEL
#4	MILL FINISH (SS)
WD	WOOD

**NEW WORK KEYNOTES**

Keynote	Description
A12	PROVIDE NEW PARTITION. REFER TO A100 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
A16	PROVIDE NEW DOOR, HARDWARE, AND FRAME. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
A15	PROVIDE SPECIFIED ADA PADDLE SWITCH TIED INTO NEW RELAY AND CONNECT TO DOOR OPERATOR AS INDICATED. COORDINATE WORK WITH OTHER DOOR HARDWARE.
A16	INSTALL POWER SUPPLY/POWER TRANSFER FOR ELECTRIFIED DOOR HARDWARE.
A17	PROVIDE SPECIFIED DOOR OPERATOR AND SPECIFIED SWING SENSOR TIED INTO NEW RELAY AND CONNECT TO ADA PADDLE SWITCH AS INDICATED. COORDINATE WORK WITH OTHER DOOR HARDWARE.

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**WASHINGTONVILLE CENTRAL SCHOOL DISTRICT**  
**WASHINGTONVILLE HIGH SCHOOL**  
**2024 CAPITAL PROJECT - PHASE 3**

Project Title: WASHINGTONVILLE CENTRAL SCHOOL DISTRICT WASHINGTONVILLE HIGH SCHOOL 2024 CAPITAL PROJECT - PHASE 3  
 Registration/Expiration Date: 02/29/2026

2	3/20/24	BID ADDENDUM #2
3	DATE	DISCUSSION

Drawn By: SM  
 Checked By: SM  
 Proj. #: 44-01-02-06-0-007-033  
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 Construction Documents: 12/12/25

Sheet Title: **DOOR SCHEDULE, DETAILS & ENLARGED PLAN**  
 Sheet No: **WHS A901**  
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