



# City of Cambridge

## Purchasing Department

Cynthia H. Griffin  
Purchasing Agent

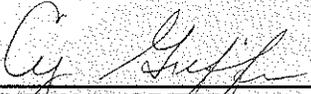
**TO:** All Bidders  
**FROM:** City of Cambridge  
**DATE:** December 10, 2013  
**RE:** File No. 5849C –Dr. Martin Luther King Jr. School Construction  
Project- Addendum NO. 2

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Addendum No 2 has been posted to our website: [www.cambridgema.gov](http://www.cambridgema.gov)

The new plans and specifications will be available on Monday January 13, 2014.

All other details remain the same.

  
\_\_\_\_\_  
CYNTHIA H. GRIFFIN  
PURCHASING AGENT

**Addendum No. 2**



PE Project No.: 47931.00

Cambridge No: 5849C

Regarding: Bid Addendum 2 – Administrative

Date: December 10, 2013

This Addendum is hereby made a part of the Contract Documents to the same extent as though it were originally included therein.

#	DISCIPLINE	BID QUESTION NO.	RESPONSE
1	Administrative	01_Kapiloff_01_#2 04_CBM_01 05_Chapman_01 10_Cogswell_01_#2 11_Grasseschi_01 28_Ostrow_01_#2	Q: Provide clarification regarding the forms that be included with a filed sub-bid:  A: See Addendum revision Project Manual #2 noted herein.
2	Administrative	03_Capitol_01 06_FeelyMC_01 10_Cogswell_01 25_NHSF_01_#4,9	Q: Provide clarification regarding insurance requirements for bidders (excluding CM at Risk).  A: See Addendum revision Project Manual #5 noted herein.
3	Administrative	25_NHSF_01_#3	Q: Ref Exhibit D. Procedures for award of subcontracts page 78 part C.1.h. There is an affidavit required by "all bidders confirming that all sub trade subcontractors named on the bid form have been prequalified by the trade contractor using criteria similar to the criteria for the prequalification of trade contractors". There is no affidavit included in the specification to cover this that I can see. Please advise how we are supposed to submit this?  A: See Addendum revision Project Manual #3 noted herein
4	Administrative	12_Cogswell_02 22_King_01	Q: Will there be a pre-bid conference / walk through for the above referenced project prior to the bid opening?  A: There will be no pre-bid conference.
5	Administrative	08_eire_01	Q: Requirements regarding controls.  A: The requirements will not be waived by the City.
6	Administrative	29_vendor_02	Q: Substitution request regarding mortar.  A: Substitution requests by vendors shall not be evaluated or answered. These requests are made through the subcontractor under contract with the Construction Manager at Risk during the submittal process.

#	DISCIPLINE	ISSUE	PROJECT MANUAL
1	Specification	Subject:	Invitation to Bid
		References:	Section 001116 Invitation to Bid
		Description:	Delete Invitation to Bid in its entirety and replace with new Invitation to Bid attached to this Addendum.
2	Specification	Subject:	Contents of a bid
		References:	Section 002113 Instructions to Bidders, page 3 of 6
		Description:	Revise second paragraph as follows:  A filed sub bid must include these forms with your bid: <ul style="list-style-type: none"> <li>• A completed filed Sub-Bid form; <b>use form in Section 004110.</b></li> <li>• A bid Deposit; <b>Use form in Section 004313</b></li> <li>• DCAM Certification Form and Update Statement; <b>to be provided by each Bidder.</b></li> <li>• Sub-Contractor's Certification (City of Cambridge Form) <b>use form noted as Exhibit L.1, in Agreement between City of Cambridge and Construction Manager at Risk page 103.</b></li> <li>• Cambridge Responsible Employer Plan Subcontractor certificate (City of Cambridge Form etc) <b>this form not issued or required, use Exhibit L.1.</b></li> <li>• OSHA Certification Form <b>use form noted as Exhibit L.3, in Agreement between City of Cambridge and Construction Manager at Risk page 105.</b></li> <li>• CORI Compliance Form <b>use form noted as Exhibit L.9, in Agreement between City of Cambridge and Construction Manager at Risk page 111.</b></li> <li>• Affidavit of Compliance <b>use form noted as Exhibit L.5, in Agreement between City of Cambridge and Construction Manager at Risk page 107.</b></li> <li>• Affidavit of Prevailing Wage Compliance <b>use form noted as Exhibit L.6, in Agreement between City of Cambridge and Construction Manager at Risk page 108.</b></li> <li>• Certification of Tax Compliance <b>use form noted as Exhibit L.7, in Agreement between City of Cambridge and Construction Manager at Risk page 109.</b></li> </ul>
3	Specification	Subject:	Form for Sub Bid
		References:	Section 004114 Form for Sub-Bid
		Description:	Replace Form for Sub-Bid with revised Form for Sub-Bid attached to this Addendum.
4	Specification	Subject:	Owner – CM at Risk Agreement, Exhibit D
		References:	Exhibit D, page 74, Paragraph I. A.1
		Description:	Add "Fire Protection" to list of categories.

5	Specification	Subject:	Insurance Requirements for bidders (excluding CM at Risk)
		References:	Section 007225 Construction Manager Supplemental Conditions
		Description:	<p>Add the following to Paragraph 1.10A:</p> <ol style="list-style-type: none"> <li>1. Umbrella or excess liability coverage amount shall be provided in the minimum amounts defined below:             <ol style="list-style-type: none"> <li>a. Contractors with a contract value in excess of \$5 million: \$15,000,000</li> <li>b. Contractors with a contract value between \$2 million and \$5 million, inclusive: \$10,000,000</li> <li>c. Contractors with a contract value between \$500,000 and \$2 million, inclusive: \$5,000,000</li> <li>d. Contractors with a contract value between \$200,000 and \$500,000, inclusive: \$2,000,000</li> <li>e. Contractors with contract value less than \$200,000: \$1,000,000</li> </ol> </li> <li>2. Contractor's Pollution Liability (this is required only for contractors performing site work, demolition work and hazardous material abatement work). Coverage shall be per Exhibit C of the Owner – Construction Manager Agreement.</li> </ol>
6	Specification	Subject:	Project Schedule
		References:	Section 011300 CM Project Schedule
		Description:	<p>Revise Paragraph 1.4B to read as follows:</p> <p>B. The above dates are based on the following Notice of Award dates:</p> <ol style="list-style-type: none"> <li>1. For Structural Steel, Concrete and Site Work: On or before <b>January 15, 2014</b>.</li> <li>2. For Trade Contractors and remaining non-Trade Contractors: On or before <b>February 28, 2014</b>.</li> </ol> <p>Add the following to the end of Paragraph 1.5A: Refer to paragraph 1.10 within this section for graphical depiction of area definitions.</p> <p>Add the following to Paragraph 1.5:</p> <ol style="list-style-type: none"> <li>1. H. Contractors shall be required to provide the necessary manpower to accommodate this schedule or the cost of premium time to accommodate this schedule, Monday through Friday is defined as the work week period.</li> </ol> <p>Revise Paragraph 1.10A to read as follows:</p> <p>A. The graphic below depicts the areas for foundation sequencing, steel fabrication / erection sequencing, <b>and rough-in / finishes installation</b>. This information is provided for general reference only. The specific areas and sequencing are subject to change.</p> <p>Add New Paragraphs 1.10D and E on new pages 9 of 10 and 10 of 10 attached to this Addendum.</p>

7	Specification	Subject:	Miscellaneous and Ornamental Iron scope
		References:	Section 050001.1 CM Supplemental Scope Statement – Miscellaneous and Ornamental Iron
		Description:	Delete Paragraph II.4 in its entirety and replace with the following: 4. Structural Steel Drawing and Misc. Metal Scope of Work Clarification: All work indicated on the Structural Drawings shall be furnished and installed by the Structural Steel Subcontractor unless specifically noted otherwise, e.g. Loose Lintels (per schedule), all steel members inherently related to the Metal Stairs, Elevator Shaft L angles, C Channels, Area Grates, etc.
8	Specification	Subject:	Selective Demolition
		References:	Section 024119 Selective Demolition.
		Description:	Add new Section attached to this Addendum.
<b>#</b>	<b>DISCIPLINE</b>	<b>ISSUE</b>	<b>DRAWINGS</b>
			Note: No drawings included in this portion of the Addendum.
			END OF ADMINISTRATIVE ADDENDUM

DR. MARTIN LUTHER KING JR. SCHOOL CONSTRUCTION PROJECT  
CAMBRIDGE, MA  
FILE NO. 5849C

**INVITATION TO BID**

The City of Cambridge, Massachusetts, the Awarding Authority, invites sealed bids for the project:  
**Dr. Martin Luther King Jr. School Construction Project, 100 Putnam Avenue, Cambridge MA.**

Bidding procedures shall be in accordance with M.G.L. c. 149A, SS44A-44J, and all other applicable laws.

Only pre-qualified filed sub-bidders can bid on this project. Contractors must submit with their bids a copy of the Contractor's certificate of eligibility (DCAM Form CQ7) and an Update Statement (DCAM Form CQ3), both in the work category of **the specific trade of filed sub-bidder.**

The estimated total project value is: **\$70,000,000.00.**

Only pre-qualified sub-bidders in the following sub-trades may submit bids.  
Pre-qualified Sealed filed sub-bids for:

Masonry, Miscellaneous and Ornamental Iron, Waterproofing, Dampproofing and Caulking, Roofing and Flashing, Glass and Glazing, Tile, Acoustical Tile, Terrazzo, Painting, Fire Protection, Plumbing, HVAC, Electrical

**Filed Sub-Bid section 140001, (Elevators), and section 090003 (Resilient Floors) are now open to all bidders. These categories do not require pre-qualification.**

**\*140001-Elevators**

**\*090003-Resilient floors**

All sealed Filed Sub-Bids (FSB) shall be received at the Purchasing Department, City Hall, 795 Massachusetts Avenue, Room 303, Cambridge, MA 02139 until **Thursday, January 30, 2014 @ 2:00 pm** at which time all sub-bids will be publicly opened and read aloud.

**This is a Construction Manager at Risk delivery method, MGL Ch. 149A SS44A-44J. The Rich - Caulfield Joint Venture is presently under contract with the City of Cambridge for these services.**

Plans and specifications will be available from Monday 8:30 a.m. to 8:00 p.m., Tuesday through Thursday, 8:30 a.m. to 5:00 p.m. and Friday 8:30 a.m. to 12:00 noon, at the Purchasing Department, City Hall, 795 Massachusetts Avenue, Room 303, Cambridge, MA 02139 from **Monday, January 13, 2014, after 12:00 p.m.** The filed sub-bidder shall be provided for no cost a CD containing all of the drawings and specifications. Those requesting paper copies, upon deposit of **\$500.00** for each set in the form of a check made payable to the City of Cambridge. **The deposit will be refunded after the return of the documents in good condition within and no later than the time period set forth in the Instructions to Bidders, whether or not a bid was submitted.** Any person requesting more than two paper sets will be required to pay a nonrefundable fee in the form of a separate check for each additional set in the amount of **\$200.00** per set. Due to the size and weight of the printed project documents, the Purchasing Department prefers and requests that you notify them by phone or e-mail 24 hours in advance of your anticipated pick-up of paper copies to insure that they have sufficient quantity for you and to instruct you as to where in the building they can be picked up.

**Plan deposit will not be returned until the project manager certifies that the returned plans and specifications are in good condition. The determination of good condition is at the sole discretion of the City.**

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**Please be advised the Purchasing Department will not be mailing out plans and specifications for this project.**

The contract documents may be examined at the Office of the Purchasing Agent, Room 303, City Hall, 795 Massachusetts Avenue, Cambridge, MA 02139.

**All questions must be faxed no later than 11:00 am on Monday, January 20, 2014 to the City of Cambridge Purchasing Department , fax #617-349-4008.**

**All Filed sub-bidders** bids shall be accompanied by a bid deposit in the form of a certified, cashier's or treasurer's check issued by a responsible bank or trust company made payable to the City of Cambridge or a bid bond, in an amount not less than five percent (5%) of the value of the bid.

The successful **filed sub-bidder** will be required to furnish a Performance Bond and a Labor and Material (Payment) Bond each in the amount of one hundred percent (100%) of the contract sum. Bonds shall be obtained from a surety licensed to do business in the Commonwealth of Massachusetts and the form shall be satisfactory to the City of Cambridge.

The successful bidder will also be required to comply with the provisions of Chapter 306 of the Acts of 2004 in regard to required OSHA approved safety & health training.

The City of Cambridge reserves the right to reject any sub-bid on any sub-trade if it determines that such sub-bid does not represent the sub-bid of a person competent to perform the work as specified or that less than three such sub-bids were received and that the prices are not reasonable for acceptance without further competition.

No less than the minimum wage rates as set forth in the schedule contained in the Contract Documents must be paid on this project.

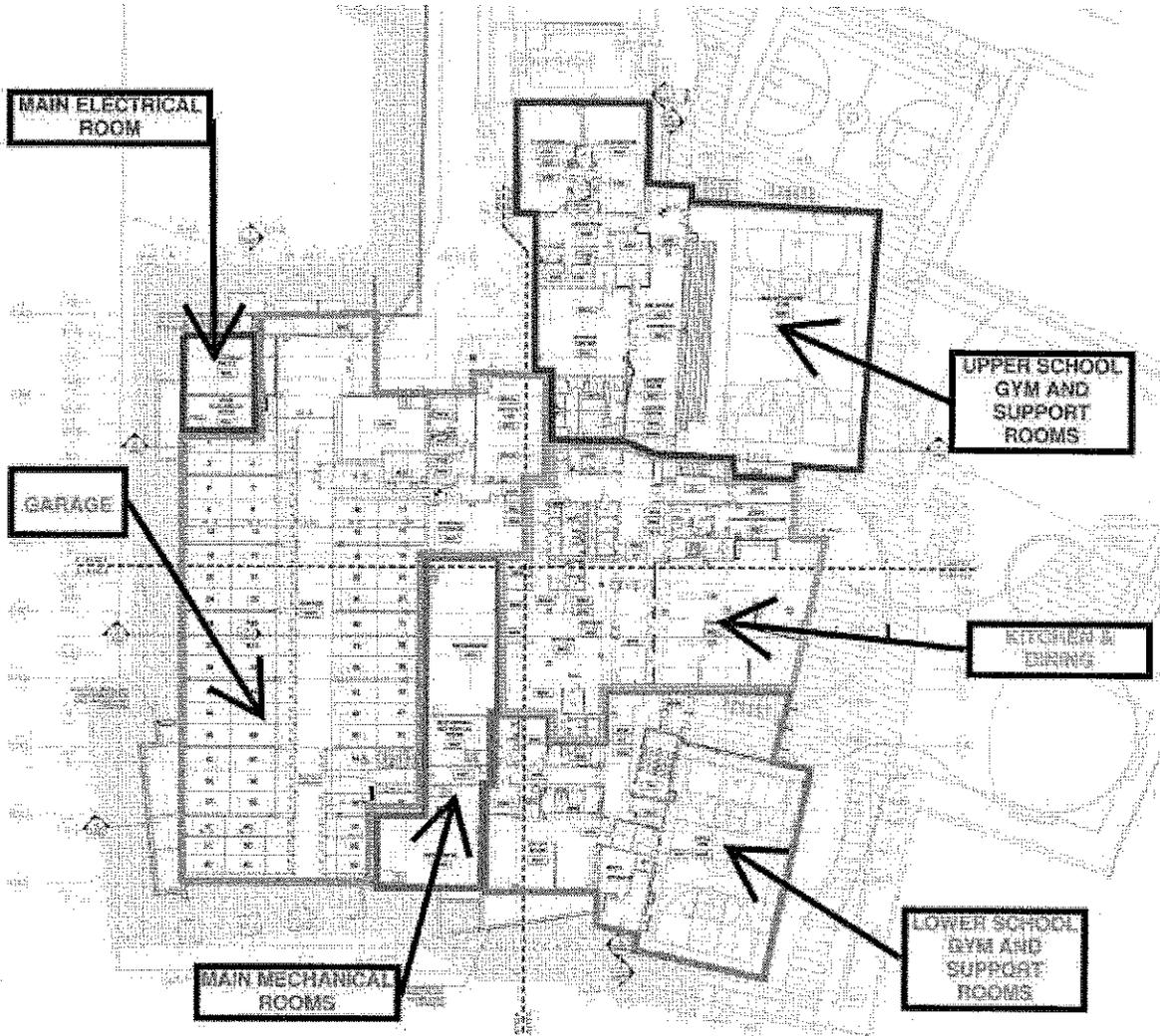
Attention is called to the following programs and ordinances of the City of Cambridge:

1. Supplemental Equal Employment Opportunity Anti-Discrimination and Affirmative Action Program
2. Minority/Women Business Enterprise Programs
3. Cambridge Employment Plan: minority/women/resident hiring ordinance.
4. Cambridge Responsible Employer Plan.
5. Cambridge Living Wage Ordinance
6. OSHA Certification

Copies of the above are bound in the bid documents and are fully integral portions of the conditions of the contract with which each contractor and sub-contractor must comply.

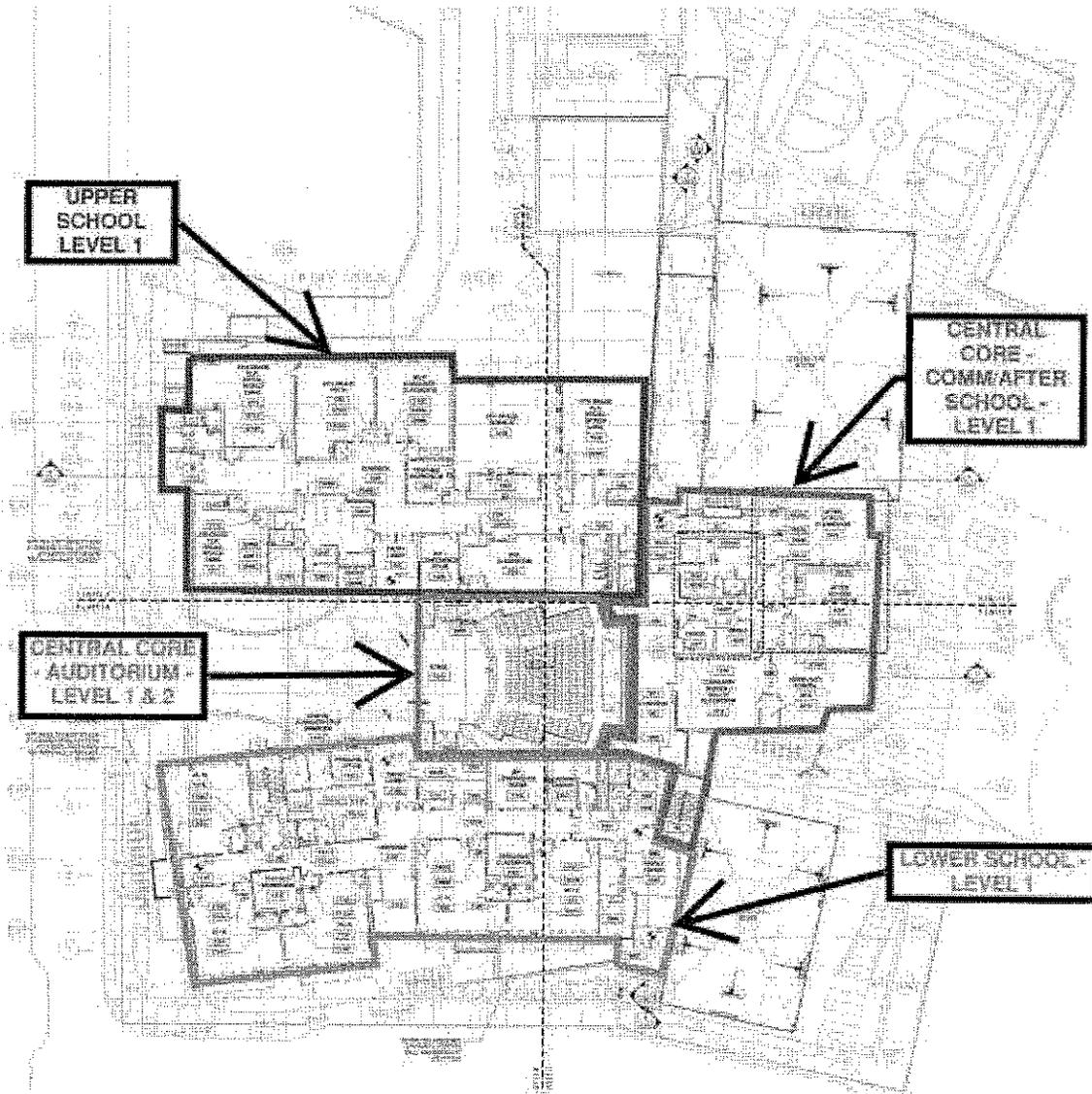
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D. Rough-in / Finish Work Areas – Level 0



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E. Rough-in / Finish Work Areas – Level 1 (Note, Level 2 and 3 are similar)



END OF SECTION

004114 - FORM FOR SUB-BID

To the Construction Manager:

- A. The undersigned proposes to furnish all labor and materials required for completing, in accordance with the hereinafter described plans, specifications and addenda, all the work specified in Section No. \_\_\_\_\_ of the specifications and in any plans specified in such section, prepared by Perkins Eastman, Boston, MA for the Dr. Martin Luther King Jr. School Construction Project located at 100 Putnam Avenue, Cambridge, Massachusetts, for the contract sum of

\_\_\_\_\_ dollars (\$\_\_\_\_\_).

For Alternate No. 1; Add \$\_\_\_\_\_ Subtract \$\_\_\_\_\_

For Alternate No. 2; Add \$\_\_\_\_\_ Subtract \$\_\_\_\_\_

For Alternate No. 3; Add \$\_\_\_\_\_ Subtract \$\_\_\_\_\_

- B. This sub-bid includes addenda numbered \_\_\_\_\_

- C. Unit Prices: The undersigned Bidder proposes the amounts below be added to or deducted from the Contract Sum on performance and measurement of the individual items of Work. If the unit price does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."

Unit Price No. 1: TPO Roofing – Pitch Pockets.

1. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) Each.

Unit Price No. 2: TPO Roofing – Roof Patches.

2. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) Each.

Unit Price No. 3: Resilient Sheet Flooring.

3. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) SF.

Unit Price No. 4: Resilient Tile Flooring.

4. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) SF.

Unit Price No. 5: Linoleum Flooring.

5. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) SF.

Unit Price No. 6: Resilient Athletic Flooring.

6. \_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) SF.

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Unit Price No. 7: Terrazzo Flooring.

7. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ SF.

Unit Price No. 8: Water Vapor Emission Control System.

8. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ SF.

Unit Price No. 9: Plumbing – Plumbing Mineral Insulation.

9. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ LF.

Unit Price No. 10: Plumbing – Plumbing Mineral Insulation.

10. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ LF.

Unit Price No. 11: HVAC - HVAC Mineral Duct Insulation.

11. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ LF.

Unit Price No. 12: HVAC - HVAC Mineral Pipe Insulation.

12. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ LF.

Unit Price No. 13: HVAC – BMS Point.

13. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ Each

Unit Price No. 14: Electrical – Duplex Outlet.

14. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ Each

Unit Price No. 15: Electrical – Quad Receptacle Outlet.

15. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ Each

Unit Price No. 16: Electrical – Quad Data Outlet.

16. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ Each

Unit Price No. 17: Electrical – Floor Box Outlet.

17. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ Each

Unit Price No. 18: Electrical – Security Camera.

18. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ Each

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Unit Price No. 19: Electrical – Security Card Reader.

19. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_) Each

Unit Price No. 20: Fire Alarm – Smoke Detector.

20. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_) Each

Unit Price No. 21: Fire Alarm – Horn/Strobe.

21. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_) Each

Unit Price No. 22: Fire Alarm – Pull Station.

22. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_) Each

Unit Price No. 23: Fire Alarm – Exit Sign.

23. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_) Each

Unit Price No. 24: Solar Energy Electrical Power Generation Equipment – Roof Solar Panel.

24. \_\_\_\_\_ Dollars (\$) \_\_\_\_\_) Each

D. The undersigned agrees that, if he is selected as a sub-bidder, he will, within 5 days, Saturdays, Sundays and legal holidays excluded, after presentation of a subcontract by the construction manager, execute with such construction manager a subcontract in accordance with the terms of this sub-bid and furnish a performance and payment bond of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority, in the full sum of the subcontract price.

E. The names of all persons, firms and corporations furnishing to the undersigned labor or labor and materials for the class or classes or part thereof of work for which the provisions of the section of the specifications for this sub-trade require a listing in this paragraph, including the undersigned if customarily furnished by persons on his own payroll and in the absence of a contrary provision in the specifications, the name of each such class of work or part thereto and the bid price for such class of work or part thereof are:

Name	Class of Work	Bid price
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

[Do not give bid price for any class or part thereof furnished by undersigned.]

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- F. The undersigned agrees that the above list of bids to the undersigned represents bona fide bids based on the hereinbefore described plans, specifications and addenda and that, if the undersigned is awarded the contract, they will be used for the work indicated at the amounts stated, if satisfactory to the awarding authority.
- G. The undersigned further agrees to be bound to the general contractor by the terms of the hereinbefore described plans, specifications, including all general conditions stated herein, and addenda, and to assume toward him all the obligations and responsibilities that he, by those documents, assumes toward the owner.
- H. The undersigned offers the following information as evidence of his qualifications to perform the work as bid upon according to all the requirements of the plans and specifications: –

1. Have been in business under present business name \_\_\_\_\_ years.
2. Ever failed to complete any work awarded? \_\_\_\_\_
3. List one or more recent buildings with names of the general contractor and architect on which you served as a sub-contractor for work of similar character as required for the above-named building.

	Building	Architect	General Contractor	Amount of Contract
(a)	_____	_____	_____	_____
(b)	_____	_____	_____	_____
(c)	_____	_____	_____	_____

4. Bank reference \_\_\_\_\_

- I. The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that he will comply fully with all laws and regulations applicable to awards of subcontracts subject to section forty-four F.

The undersigned further certifies under penalties of perjury that this sub-bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

- J. The undersigned confirms that all subcontractors named on the bid form have been prequalified by the trade contractor using criteria similar to the criteria for the prequalification of trade contractors.

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Date \_\_\_\_\_

\_\_\_\_\_  
(Name of Sub-bidder)

By \_\_\_\_\_  
(Title and Name of Person Signing Bid)

\_\_\_\_\_  
(Business Address)

\_\_\_\_\_  
(City and State)

SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. The Contractor, Subcontractors, and/or suppliers providing goods or services referenced in or related to this Section shall also be bound by the Documents identified in Division 01 Section "Summary", Paragraph 1.1A, entitled "Related Documents."

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Demolition and removal of selected portions of building or structure, including the following as indicated:
    - a. Foundation walls.
    - b. Concrete slabs on grade and elevated slabs.
    - c. New openings in existing concrete foundation wall to remain, for installation of new louvers.
    - d. Concrete footings for installation of new footings.
- B. Related Sections include the following:
  - 1. Division 01 Section "Summary" for use of premises and Owner-occupancy requirements.
  - 2. Division 01 Section "Temporary Facilities and Controls" for temporary construction and environmental-protection measures for selective demolition operations.
  - 3. Division 01 Section "Cutting and Patching" for cutting and patching procedures.

1.3 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

1.5 PREINSTALLATION MEETINGS

- A. Predemolition Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to selective demolition including, but not limited to, the following:
1. Inspect and discuss condition of construction to be demolished.
  2. Review structural load limitations of existing structures scheduled to remain.
  3. Review and finalize building demolition schedule and verify availability of demolition personnel, equipment, and facilities needed to make progress and avoid delays.
  4. Review and finalize protection requirements.
  5. Review procedures for noise control and dust control.
  6. Review procedures for protection of adjacent buildings.

1.6 INFORMATIONAL SUBMITTALS

- A. Proposed Protection Measures: Submit informational report to the Construction Manager, including drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and for noise control. Indicate proposed locations and construction of barriers.
1. Existing to Remain: Detail special measures proposed to protect section of existing building scheduled to remain.
- B. Schedule of Selective Demolition Activities: Indicate the following:
1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity.
  2. Means of protection for items to remain and items in path of waste removal from building.

1.7 CLOSEOUT SUBMITTALS

- A. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

1.8 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
1. Comply with waste ban regulations of the Massachusetts Department of Environmental Protection (MassDEP), 310 CMR 19.017, for disposal of asphalt pavement, brick, concrete, metal, and wood.
- B. Standards: Comply with ANSI A10.6 and NFPA 241.

1.9 PROJECT CONDITIONS

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Notify Construction Manager of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- C. Hazardous Materials: Hazardous materials are present in construction to be selectively demolished. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.
  - 1. Hazardous materials will be removed under separate contract prior to start of work.
  - 2. If unidentified hazardous materials are encountered during the work, do not disturb hazardous materials or items suspected of containing hazardous materials. Stop all work on the project and immediately notify Construction Manager.
- D. Storage or sale of removed items or materials on-site is not permitted.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- B. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Construction Manager.
- C. Engage a professional engineer to perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during building demolition operations. The engineer will be responsible to design temporary shoring and bracing as indicated on the Drawings and as required to keep the structure safe at all times during selective demolition operations.

### 3.2 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
  - 1. Comply with requirements for access and protection specified in Division 01 Section "Temporary Facilities and Controls."
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
  - 1. Provide protection to ensure safe passage of people around selective demolition area.
  - 2. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
  - 3. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Division 01 Section "Temporary Facilities and Controls."
  - 4. Comply with indoor air quality requirements specified in Division 01 Section "Indoor Air Quality Construction Plan."
- C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
  - 1. Strengthen or add new supports when required during progress of selective demolition.

### 3.3 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
  - 1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
  - 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
  - 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
  - 4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
  - 5. Maintain adequate ventilation when using cutting torches.

6. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
7. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
9. Dispose of demolished items and materials promptly. Comply with requirements in Division 01 Section "Construction Waste Management and Disposal."

- B. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

#### 3.4 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Concrete: Demolish in small sections. Cut concrete to a depth of at least 3/4 inch at junctures with construction to remain, using power-driven saw. Dislodge concrete from reinforcement at perimeter of areas being demolished, cut reinforcement, and then remove remainder of concrete indicated for selective demolition. Neatly trim openings to dimensions indicated.
- B. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be demolished, then break up and remove.

#### 3.5 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them.
1. Do not allow demolished materials to accumulate on-site.
  2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
  3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
  4. Comply with requirements specified in Division 01 Section "Construction Waste Management and Disposal."
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Owner's property. Separate, salvage, recycle, and legally dispose of materials in accordance with the Commonwealth of Massachusetts Waste Ban, 310 CMR 19.017.
1. Include cost of all transportation and disposal.
  2. Provide verification of all disposal trips.
  3. Hazardous materials are to be handled and disposed of in accordance with all State, Local, and Federal regulations.

3.6 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

**Project:** Dr. Martin Luther King Jr. School Construction Project

**PE Project No.:** 47931.00

**Cambridge No:** 5849C

**Regarding:** Bid Addendum 2 – Civil

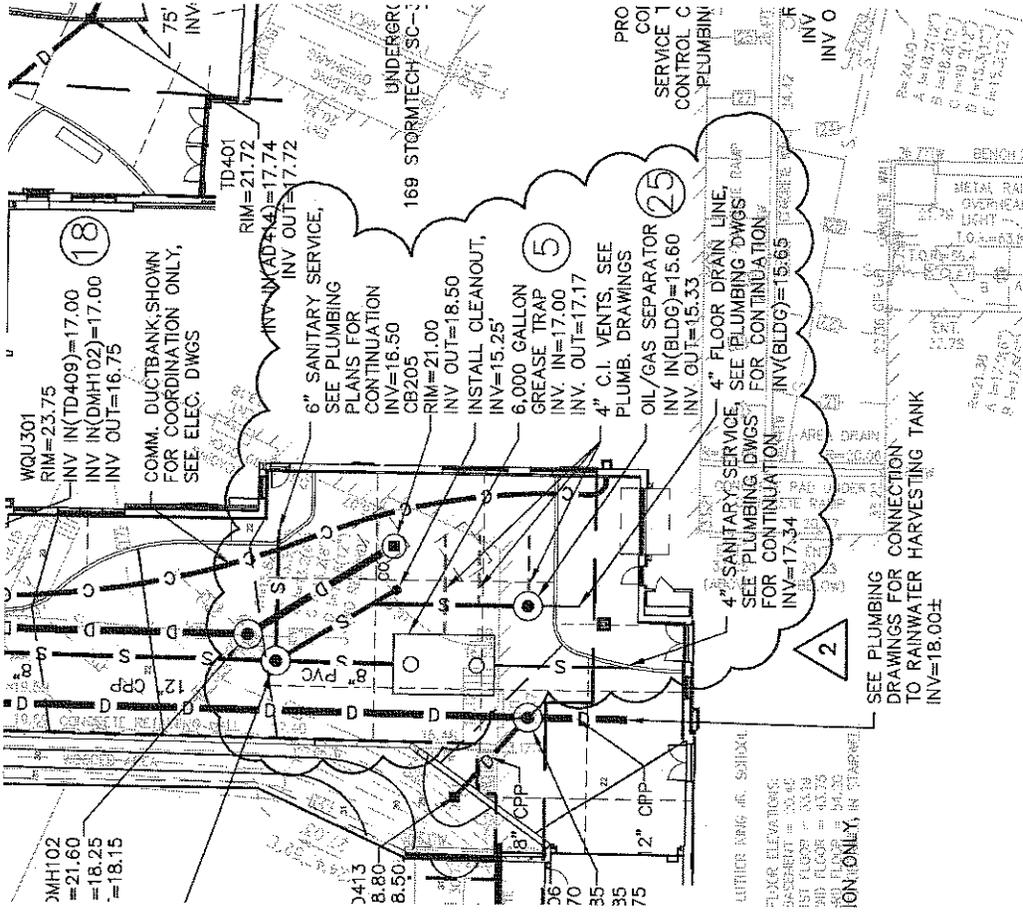
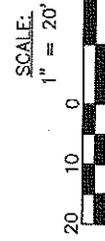
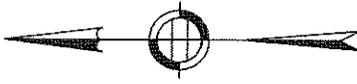
**Date:** December 10, 2013

This Addendum is hereby made a part of the Contract Documents to the same extent as though it were originally included therein.

#	DISCIPLINE	ISSUE	RFI RESPONSE
N/A	Civil	N/A	Note: No questions from bidders submitted prior to the issuance of this Addendum
#	DISCIPLINE	ISSUE	PROJECT MANUAL
N/A	Civil	N/A	Note: No revisions to Project Manual included in this Addendum.
#	DISCIPLINE	ISSUE	DRAWINGS
1	Civil	Subject:	Primary Electrical Service
		References:	SKC-001 and Sheet C100
		Description:	The Bid Set noted the existing electrical service as "protect and maintain". Bid set electrical site plan indicated that the electrical primary service should be removed and replaced. Requirements captured on Plan C100 for coordination. Refer to Electrical Site Plan for details.
2	Civil	Subject:	Gas Service
		References:	SKC-001 and Sheet C100
		Description:	Gas Service connection modified to extend to the main. Contractor shall coordinate actual extents and requirements for installation with gas utility.
3	Civil	Subject:	Sanitary Sewer Labor Division
		References:	SKC-002 and Sheet C100
		Description:	Nitsch Engineering has noted the locations of venting requirements and included oil/gas separator in the civil plan for scope coordination. 4" Kitchen Waste service invert lowered from 17.41' to 17.34' for coordination with plumbing drawings.
4	Civil	Subject:	Fire Alarm Ductbank
		References:	SKC-003 and Sheet C100
		Description:	Added location of fire alarm ductbank along Magee Street for coordination purposes. Refer to Electrical Site Plan for details.
5	Civil	Subject:	Oil/Gas Separator Detail
		References:	SKC-004 and Sheet C302
		Description:	Oil/Gas Separator detail added to sheet C302.

6	Civil	Subject:	Stair Modification at Putnam Avenue - Coordination
		References:	SKL-001
		Description:	Stairs shifted slightly internal to property. Refer to SKL-001 for details.
			END OF CIVIL ADDENDUM

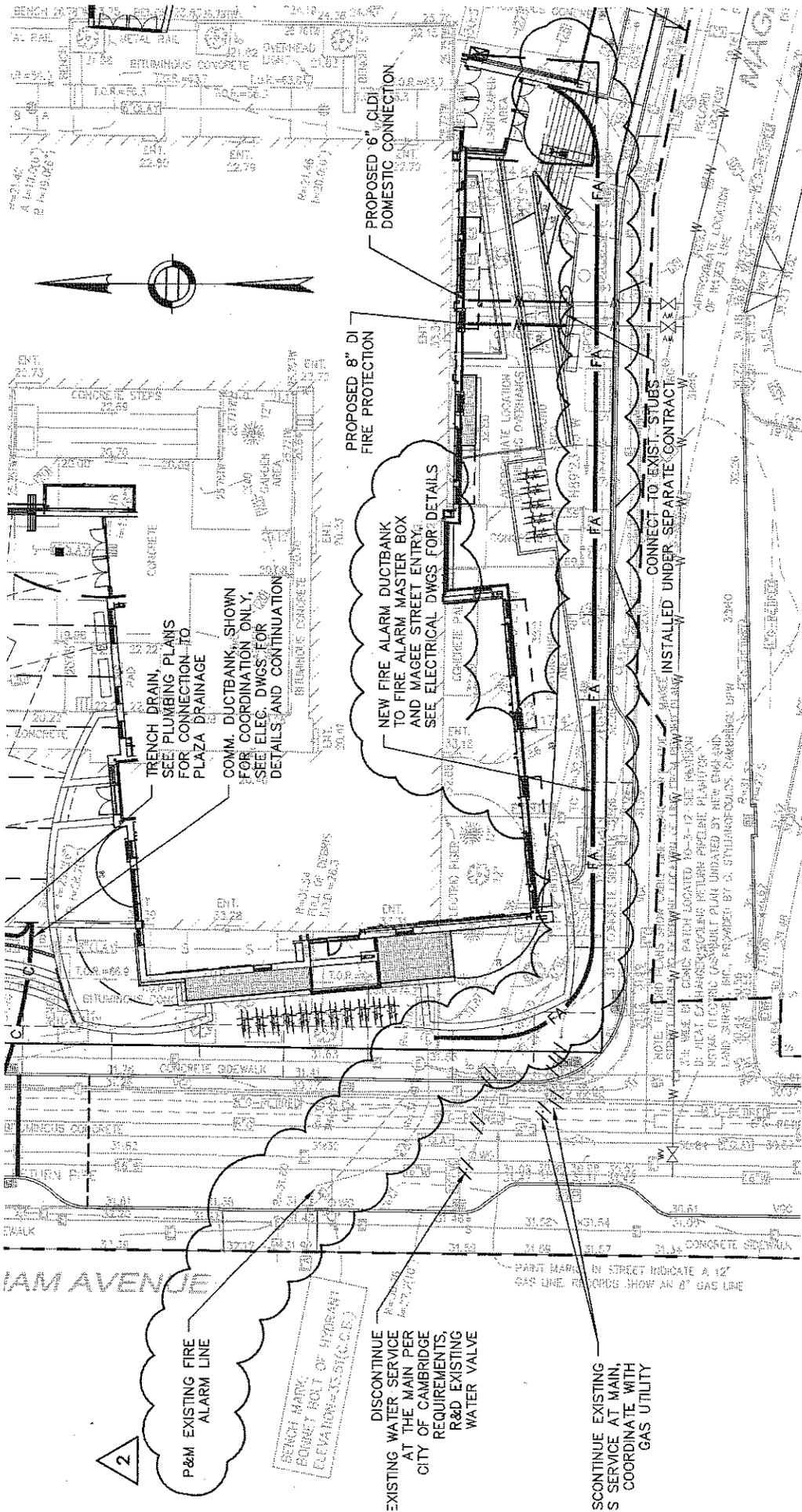




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PROJECT: Martin Luther King, Jr. School Construction Project  
 DRAWING TITLE: MODIFICATIONS TO PLUMBING CONNECTIONS IN LOADING DOCK  
 DATE: BID Addendum 2 - 12.10.2013

PROJECT NO. 4783.1.00  
 SCALE: AS NOTED  
 DWG. NO.: **SKC - 002**



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PROJECT: Martin Luther King, Jr. School Construction Project  
 DRAWING TITLE: LOCATION OF FIRE ALARM CONDUIT ON MAGEE STREET  
 DATE: BID Addendum 2-12-10-2013

SCALE:  
 1" = 20'  
 20 10 0 20 40

PROJECT NO. 47831.00  
 SCALE: AS NOTED  
 DWG. NO.: SKC - 003

2

P&M EXISTING FIRE ALARM LINE

SEARCH MAP: BOSTON CITY OF HYDRANT ELEVATIONS=35.5(C.C.E.)

DISCONTINUE EXISTING WATER SERVICE AT THE MAIN PER CITY REQUIREMENTS. R&D EXISTING WATER VALVE

SCONTINUE EXISTING S SERVICE AT MAIN, COORDINATE WITH GAS UTILITY

NEW FIRE ALARM DUCT BANK TO FIRE ALARM MASTER BOX AND MAGEE STREET ENTRY. SEE ELECTRICAL DWGS FOR DETAILS

PROPOSED 8" DI FIRE PROTECTION

PROPOSED 6" CLDI DOMESTIC CONNECTION

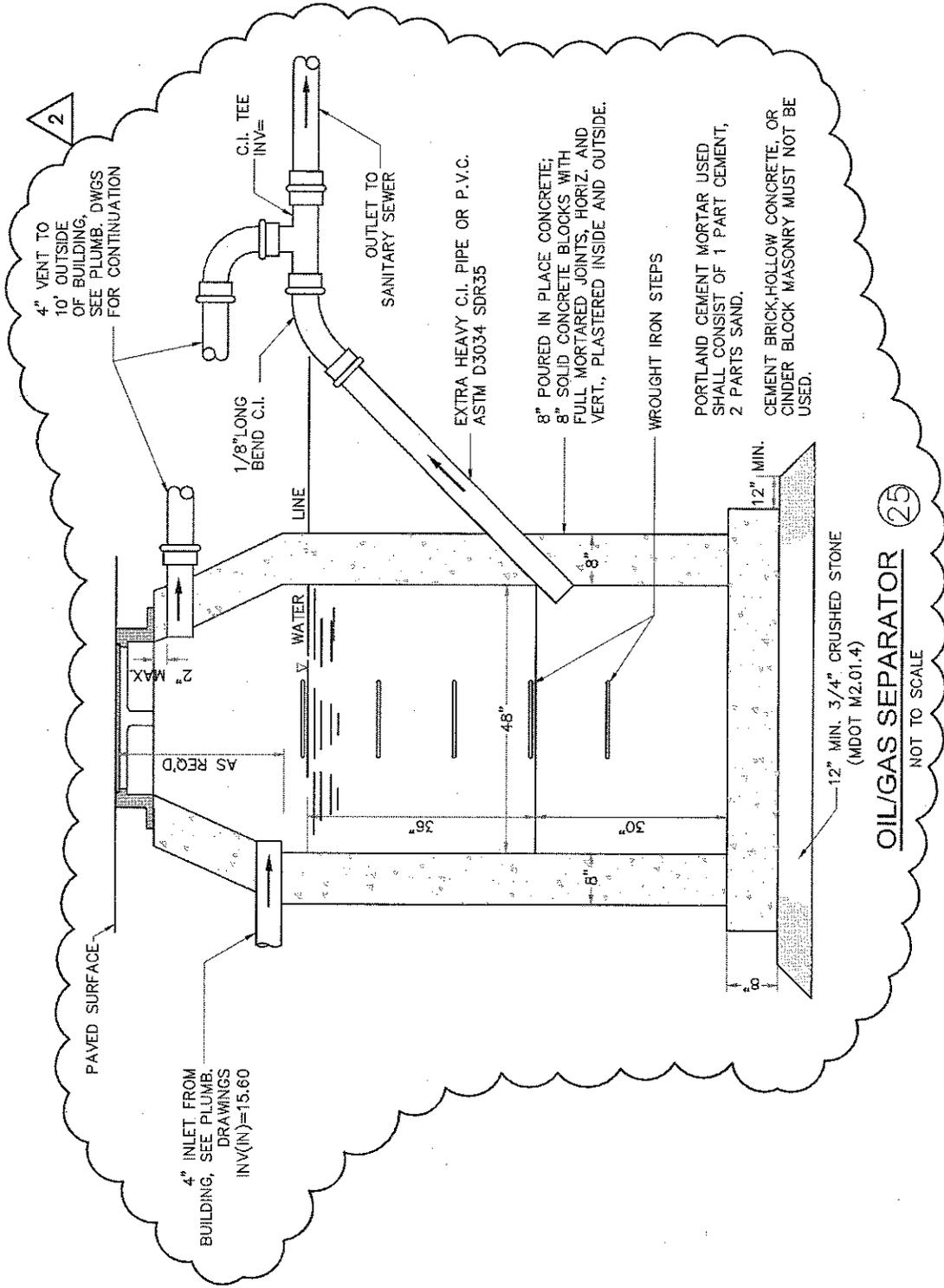
CONNECT TO EXIST. STUBS INSTALLED UNDER SEPARATE CONTRACT

NOTE: REPAIR TO CONCRETE PATCH LOCATED 15'-3"-12' SET BACK FROM MAGEE STREET. REPAIRS TO BE MADE BY CONTRACTOR. REPAIRS TO BE MADE BY CONTRACTOR. REPAIRS TO BE MADE BY CONTRACTOR.

PART MARKS IN STREET INDICATE A 12" GAS LINE. DIMENSIONS SHOW AN 8" GAS LINE

MAGEE STREET

IAM AVENUE



**OIL/GAS SEPARATOR** (25)  
NOT TO SCALE

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F: 617-449-4000

PROJECT: Martin Luther King, Jr. School Construction Project  
DRAWING TITLE: OIL/GAS SEPARATOR DETAIL  
DATE: BID Addendum 2-12-10-2013

PROJECT NO. 47831.00  
SCALE: NTS  
DWG. NO.: **SKC - 004**

**Project:** Dr. Martin Luther King Jr. School Construction Project

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**PE Project No.:** 47931.00

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**Cambridge No:** 5849C

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**Regarding:** Bid Addendum 2 – Landscape Architecture

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**Date:** December 10, 2013

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This Addendum is hereby made a part of the Contract Documents to the same extent as though it were originally included therein.

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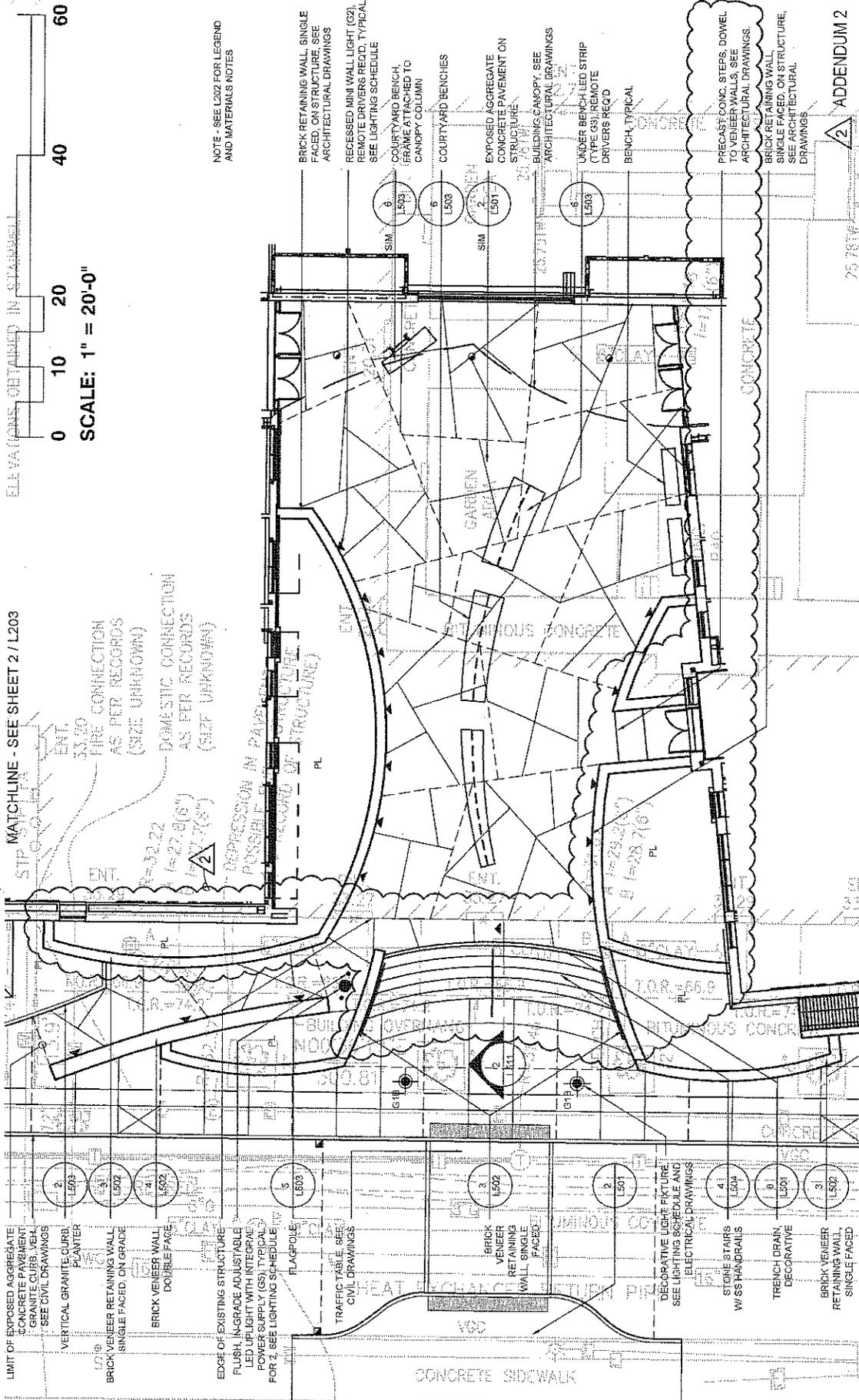
#	DISCIPLINE	BID QUESTION NO.	RESPONSE
01	Landscape	13_Ralphs_01	<p>Q: Question #2 – Drawing L100, L201 Detail 3/L503 &amp; 4/L503. Section 055000 Metal Fabrications does not specify the steel bollards or decorative removable steel bollards, nor does Section 323000 Miscellaneous Site Improvements. Please supply direction as to who owns the bollards</p> <p>R: Furnished by section 050001 – Miscellaneous and Ornamental Iron Filed Sub Bid, and installed by Division 32 Section.</p>
02	Landscape	14_Ralphs_02	<p>Q: Question #1 – Drawing EX-1 shows existing bollards labeled with large black dot and B. This same marking is shown on the landscape drawings. Please confirm that these markings do not require a bollard on the new school project.</p> <p>R: There are only (6) existing bollards to remain at Hayes Street as documented in the Early Demo and Abatement Package dated 02.11.2013                      Note: 11/13/13 Bid Documents included digital copies of “Reference Documents” that were comprised of Abatement and Demolition and Geothermal bid documents; in addition to posted files and compact disks distributed by purchasing, a hard copy is available for viewing at City of Cambridge Purchasing Department.</p>
03	Landscape	18_Chapman_03_#12	<p>Q: Will the expansion joint sealant at exterior concrete pavement joints be installed by specifications sections 321000 and 321313 or will it be installed by specification section 079200 Joint Sealants as part of the File Sub-Bid? (Refer to sections 321000 Paragraph 3.8 and section 321313 Paragraph 1.05-B-3.)</p> <p>R: Spec section 321313 has been updated in this Addendum. Item #2.08 to refer to section 079200 Joint Sealants.</p>
04	Landscape	19_V&G_01_#3	<p>Q: Which section is responsible for the vehicle gate – Detail 1 / L503</p> <p>R: Furnished by section 050001 – Miscellaneous and Ornamental Iron Filed Sub Bid, and Installed by Division 32</p>

			Section.
05	Landscape	19_V&G_01_#4	Q: Which Section is responsible for the gate as shown on L512 R: Furnished by section 050001 – Miscellaneous and Ornamental Iron Filed Sub Bid, and Installed by Division 32 Section.
06	Landscape	19_V&G_01_#5	Q: Which section is responsible for the work shown on L513 (other than aluminum ramp) R: Furnished by section 050001 – Miscellaneous and Ornamental Iron Filed Sub Bid, and Installed by Division 32 Section.
07	Landscape	25_NHSF_01_#11	Q: Ref Section Miscellaneous Site Improvements page 7 part 2.12. We assume all guard and hand railings for aluminum ramp are to be included with this section 323000? Please confirm. R: Yes, that is correct.
08	Landscape	25_NHSF_01_#12	Q: Ref L503 detail 3. Please advise who is to install steel bollards R: Furnished by section 050001 – Miscellaneous and Ornamental Iron Filed Sub Bid, and Installed by Division 32 Section.
09	Landscape	25_NHSF_01_#13	Q: Ref L503. What section is to provide the swing leaf gate? Please advise R: Furnished by section 050001 – Miscellaneous and Ornamental Iron Filed Sub Bid, and Installed by Division 32 Section.
10	Landscape	25_NHSF_01_#14	Q: Ref L503. What section is to provide stainless steel bollards? Please advise R: Furnished by section 050001 – Miscellaneous and Ornamental Iron Filed Sub Bid, and Installed by Division 32 Section.
11	Landscape	25_NHSF_01_#16	Q: Ref dwg L504. We assume 1 1/4" (1.66 od) schedule 40 or 80 can be used at all locations where 1 1/2" od is called out since it meets all required codes and laws? Please confirm R: 1 1/4" (1.66 od) Schedule 80 is acceptable to use where 1 1/2" od is called out.
12	Landscape	25_NHSF_01_#17	Q: Ref dwg L512. What section is to provide the gates and screen shown on this dwg? Please advise R: Furnished by section 050001 – Miscellaneous and Ornamental Iron Filed Sub Bid, and Installed by Division 32 Section.
<b>#</b>	<b>DISCIPLINE</b>	<b>ISSUE</b>	<b>PROJECT MANUAL</b>
1.	Landscape	Subject:	Decorative Removable Metal Bollards
		References:	Section 323000 Miscellaneous Site Improvements

		Description:	Add the following: 2.18 DECORATIVE REMOVABLE METAL BOLLARDS A Decorative removable metal bollards furnished by Division 05 Section "Metal Fabrications" for installation by this section.
2	Landscape	Subject:	Decorative Removable Metal Bollards
		References:	Section 323000 Miscellaneous Site Improvements
		Description:	Add the following: 3.07 DECORATIVE REMOVABLE METAL BOLLARDS A. Assembly and installation shall be per the shop drawings and manufacturer's instructions and as specified herein. All products shall be plumb and set to the grades shown on the drawings. Comply with Division 03 Section "Cast-in-Place Concrete" for concrete footings.
3	Landscape	Subject:	Landscape Boulder Retaining Wall
		References:	Section 323000 Miscellaneous Site Improvements
		Description:	Add the following: 3.08 LANDSCAPE BOULDER RETAINING WALL A. Excavate a minimum of (6) inches below finish grade or add soil at the base and sides in the areas to shown on the drawings to bring the areas to receive the Landscape Boulder Retaining wall. Compact the soil at base areas of the boulders to be installed at the bottom course. B. Install filter fabric at the base and the sides, tucking the filter fabric at the top of the slope so no filter fabric is exposed. Boulders at the base of the wall should be a minimum of (6) inches below the finish grade. C. Install boulders working from the bottom, stacking and stepping the boulder at a (1) to (1) angle of repose. D. Fill voids between boulders with soil. Soil to be held back (6) inches from the face of the boulder wall face.
4	Landscape	Subject:	Pre K Play area Products – Add manufacturer
		References:	Section 323010 Playground Improvements
		Description:	Add the following after 2. to 2.03, E. 3. (1) Play Structure and sand box and sand box cover, Model No. 4851-TF-M, Drawing Number P-1318-T by Columbia Cascade Company, makers of TimberForm, 800-547-1940. Refer to attached drawings and specifications, Exhibit G.
5	Landscape	Subject:	Pre K Play area Products – Add the following Exhibit G
		References:	Section 323010 Playground Improvements
		Description:	Add the manufacturers drawing Exhibit G after Exhibit F in specification section 323010 Playground Improvements.

			Sketch title "Exhibit G".
6	Landscape	Subject:	Site Concrete Expansion Joints
		References:	Section 321313 Site Concrete
		Description:	Delete the following from 2.08 Expansion Joint Materials - 'Refer to Cast-In- Place Concrete Section 033100.'  Add the Following to 2.08 Expansion Joint Materials – 'Refer to Joint Sealants Section 079200, 2.3 Urethane Joint Sealants, B. Multicomponent, Pourable, Traffic Grade, Urethane Joint Sealant.'
<b>#</b>	<b>DISCIPLINE</b>	<b>ISSUE</b>	<b>DRAWINGS</b>
01	Landscape	Subject:	Salvaged curb clarification
		References:	L201
		Description:	The callout for "vertical granite curb, salvaged granite" located adjacent to the vehicular concrete at the basketball court, running perpendicular to Kinnaird Street, is where the salvaged granite is to be relocated from the Demo and Abatement. The limits of the salvaged curbing also runs parallel to the synthetic turf field.
02	Landscape	Subject:	Guardrail gate at Putnam Stair Tower
		References:	2 / L203
		Description:	Add (1) single leaf CLF gate at the top of the stairs leading to the NStar vault. Guardrail to be connected to guardrail end posts. Height to match top of guardrail.
03	Landscape	Subject:	Grading Note changes
		References:	1 / L303
		Description:	Change notes related to Top of Wall elevations to read:  Top of wall elevations are at the FRONT of the coping (LOW point).  And  LOW point of coping to align with calcium-silicate coursing.
04	Landscape	Subject:	Brick Veneer wall details
		References:	1 / L502, 3 / L502, 5 / L502 and 10 / L502
		Description:	Change note "dampproofing" to "WATERPROOFING".
05	Landscape	Subject:	Brick Veneer through wall flashing
		References:	5 / L502
		Description:	Delete "blue skin flashing" and change to "THROUGH WALL FLASHING WITH STAINLESS STEEL DRIP EDGE"
06	Landscape	Subject:	Note Change
		References:	6 / L502
		Description:	Change note #1 to read: Top of wall elevations are at the FRONT of coping (LOW point).

07	Landscape	Subject:	Note Change
		References:	8 / L502
		Description:	Change note to read: Top of wall elevations are at the LOW point of coping.
08	Landscape	Subject:	Veneer wall coping flashing
		References:	6 / L502 and 8 / L502
		Description:	Change note "lead coated copper" to "ZINC COATED COPPER". Also, at the soil side of the planter, EXTEND
09	Landscape	Subject:	On Structure Veneer wall Coping flashing
		References:	6 / L502 and 8 / L502
		Description:	Extend zinc coated copper flashing 6" down the back side of the planter wall to protect the waterproofing membrane.
10	Landscape	Subject:	Modified removable bollard description
		References:	4 / L503
		Description:	Modify material description to read - 8" DIA. STAINLESS STEEL, GRADE 316, SCH. 40 PIPE, #4 SATIN FINISH
11	Landscape	Subject:	Top stair tread at Putnam courtyard stair
		References:	2 / L511
		Description:	Top stair tread is reduced from 3' to 18" wide
12	Landscape	Subject:	Shop Drawings for screen and entry gates
		References:	1 / L512 and 2 / L512
		Description:	Add note for the Teachers patio screen and King Street entry gates: SUBMIT STAMPED PROFESSIONAL ENGINEERING CALCULATIONS AND FULLY DIMENSIONED SHOP DRAWINGS AFTER VERIFYING FIELD CONDITIONS, PER SPEC SECTION 055000.
13	Landscape	Subject:	Stair and Wall revisions at Putnam
		References:	L203, L213, and L303
		Description:	The three attached SKL-001, SKL-002 and SKL-003 sketches document various changes at the edge of structure and courtyard. The stairs leading to the courtyard have shifted east. The planter walls have been lowered and the northern planter wall no longer steps down. Both planters now are doveled into the existing structure where they span over the edge. Egress stairs have become two longer landings, and no handrails are required.
			END OF LANDSCAPE ARCHITECTURE ADDENDUM



SCALE: 1" = 20'-0"

MATCHLINE - SEE SHEET 2 / L203

- 1. LIMIT OF EXPOSED AGGREGATE CONCRETE CURB (SEE CIVIL DRAWINGS)
- 2. VERTICAL GRANITE CURB PLANTER
- 3. BRICK VENEER RETAINING WALL SINGLE FACED, ON GRADE
- 4. BRICK VENEER WALL DOUBLE FACE
- 5. EDGE OF EXISTING STRUCTURE FLUSH, IN-GRADE ADJUSTABLE LED UP LIGHT WITH INTEGRAL POWER SUPPLY (QS), TYPICAL FOR 2, SEE LIGHTING SCHEDULE
- 6. FLAGPOLE
- 7. TRAFFIC TABLE (SEE CIVIL DRAWINGS)
- 8. BRICK VENEER RETAINING WALL SINGLE FACED
- 9. DECORATIVE LIGHT FIXTURE (SEE LIGHTING SCHEDULE AND ELECTRICAL DRAWINGS)
- 10. STONE STAIRS W/ SS HANDRAILS
- 11. TRENCH DRAIN DECORATIVE

NOTE: SEE L202 FOR LEGEND AND MATERIALS NOTES

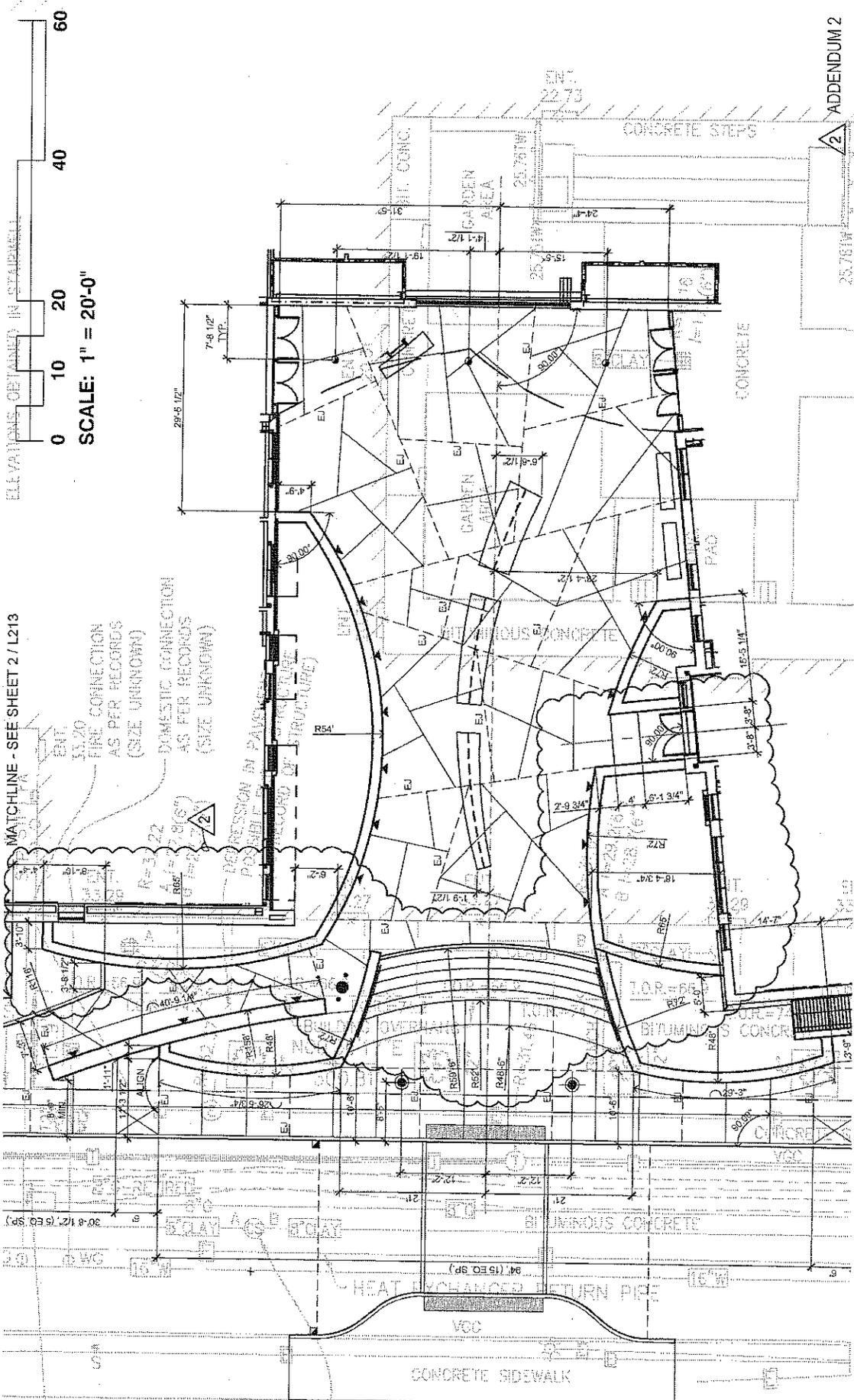
ADDENDUM 2

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**PROJECT:** Dr. Martin Luther King, Jr. School  
**Construction Project**

**PROJECT NO.:** 47931.00  
**SCALE:** 1" = 20'-0"  
**SHEET:**  
**REFERENCE:** L203  
**DWG. NO.:** SKL-001

**DRAWING TITLE:** Partial Materials Plan 3 Revisions  
**DATE:** 12/10/2013 BID ADDENDUM 2



ELEVATIONS OBTAINED IN STAIRWELL

0 10 20 40 60

SCALE: 1" = 20'-0"

MATCHLINE - SEE SHEET 2 / L213

DOMESTIC CONNECTION  
AS PER RECORDS  
(SIZE UNKNOWN)

DOMESTIC CONNECTION  
AS PER RECORDS  
(SIZE UNKNOWN)

ADDENDUM 2

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**PROJECT:** Dr. Martin Luther King, Jr. School  
**Construction Project**

**PROJECT NO.:** 47931.00  
**SCALE:** 1" = 20'-0"  
**SHEET:**  
**REFERENCE:** L213  
**DWG. NO.:** SKL-002

**DRAWING TITLE:** Partial Layout Plan 3 Revisions  
**DATE:** 12/10/2013 BID ADDENDUM 2





**Project:** Dr. Martin Luther King Jr. School Construction Project

**PE Project No.:** 47931.00

**Cambridge No:** 5849C

**Regarding:** Bid Addendum 2 – Structural

**Date:** December 10, 2013

This Addendum is hereby made a part of the Contract Documents to the same extent as though it were originally included therein.

#	DISCIPLINE	ISSUE	PROJECT MANUAL
1	Structural	Subject:	Mastic coating for below grade structural steel elements
		References:	Section 033000 Cast-in-Place Concrete
		Description:	Add the following to Paragraph 1.2A:  13. Mastic Coating of below grade steel beams, steel column bases and steel column base plates.  Add the following to Paragraph 2.2J:  9. Mastic coating for below grade steel beams, steel column bases and steel column base plates: High-build coal tar epoxy as manufactured by: Carboline, Inc., Sumter Coatings, Inc., Rust-Oleum, Inc., Krylon Industrial Coatings, Inc., or equal approved by Architect.  Add the following Paragraph:  3.19 MASTIC COATING  A. Apply mastic coating to all below grade steel beams, steel column bases, steel column base plates and fasteners, as indicated on the drawings, in accordance with the manufacturer's instructions.
2	Structural	Subject:	Fireproofing of Structural Steel
		References:	Section 051200 Structural Steel
3	Structural	Subject:	Thermal isolation of structural steel elements
		References:	Section 051200 Structural Steel
		Description:	Revise Paragraph 1.5C as follows:  C. Prior to preparation of Shop Drawings, the fabricator shall submit typical details and calculations of all structural steel, Exposed to View Structural Steel (EVSS) and structural

			aluminum connection types including, but not limited to, moment connections, beam to column and beam to girder connections, column splices, special column joints, beam splices, bracing connections, hanger connections, <b>thermally isolated connections, etc.</b> , for approval by the Architect and Structural Engineer. <b>Connections for all exterior structural steel or structural steel in unheated spaces that is in contact with interior structural steel shall be thermally isolated. Prior to preparation of Shop Drawings, the fabricator shall meet with the Architect and Structural Engineer to review thermally isolated connection requirements.</b> The design of all connections is to be provided by the fabricator, under the supervision of a professional structural engineer, registered in the Commonwealth of Massachusetts.
4	Structural	Subject:	Fireproofing of metal deck
		References:	Section 053000 Metal Decking
		Description:	Add the following to Paragraph 1.2A:  All metal roof deck or metal floor deck used in a roof condition shall be fireproofed to achieve the required fire resistance rating, unless noted otherwise on the Drawings. Metal roof deck exposed to view in the finished work shall be protected with an intumescent coating. Composite metal floor deck does not require fire protection, unless otherwise noted on the Drawings. Coordinate surface preparation/treatment and fireproofing requirements with Architectural Drawings and Section 078100.
5	Structural	Subject:	Vented Floor Deck
		References:	Section 053000 Metal Decking
		Description:	Revise Paragraph 2.3A as follows:  A. Typical metal floor deck shall be formed of steel sheets conforming to ASTM Standard A 653 minimum Grade 40 and shall be composite type with 6" wide (nominal) flutes top and bottom sides at 12" on center and with a minimum yield strength of 40,000 psi. Galvanized coating shall conform to ASTM A 653 G 60. Refer to the Drawings for gauge and depth. Units shall have vented bottom flutes, <b>except as noted on the Drawings</b> . Vent openings shall account for 0.5% of the surface area covered by the decking. Products used shall be Factory Mutual – Global approved.
#	DISCIPLINE	ISSUE	DRAWINGS
1	Structural	Subject:	Fireproofing Note
		References:	S001- Note G12
		Description:	Add the following language to the note: "HSS diagonal members in braced frames do not require fireproofing. All steel members exposed to view in the finished work shall be protected by intumescent paint. Refer to Structural and Architectural Drawings

			for locations."
2	Structural	Subject:	Foundation Drain Cleanout Detail
		References:	S003
		Description:	Change text in Note 1 from "General Contractor" to "Sitework Contractor"
3	Structural	Subject:	Trench Drain Detail
		References:	S003
		Description:	Delete entire detail – not applicable
4	Structural	Subject:	Loose Lintel Schedule
		References:	S004
		Description:	Add two additional sizes to the loose lintel schedule. For openings 8'-1" to 10'-0" wide, use L7x4x3/8 (LLV). For 10'-1" to 12'-0" wide openings, use L8x4x1/2 (LLV).
5	Structural	Subject:	Mastic Coat Steel
		References:	S005 – Column Base Details
		Description:	Mastic coat to be by 033000 – typical.
6	Structural	Subject:	Roof Openings Notes
		References:	S006 – Roof Opening Details
		Description:	Delete Note 4 and references to bar joists from Small and Large Roof Opening details.
7	Structural	Subject:	Underslab Drainage Layout
		References:	S100, SKS-1
		Description:	Revise underslab drainage layout below Upper School Gym. See SKS.
8	Structural	Subject:	Underslab Drainage – Cleanout Elevations
		References:	S100
		Description:	Revise the following cleanout elevations: Cleanout near se3-seA from 20.48' to 20.43' Cleanout near KS5.2-neB from 19.95' to 19.93'
9	Structural	Subject:	Underslab Drainage – Header Pipes
		References:	S100
		Description:	Revise note at header pipes within building footprint (4 locations) from "perforated" to "solid".
10	Structural	Subject:	Existing Perimeter Drainage Lines
		References:	S100
		Description:	Show existing perimeter drainage lines at the following locations: Along the full length of existing wall at EXA, along EX1 between EXA and EXB, and along EX9 between EXA and EXB. Tie the existing perimeter drain into the new underslab drainage system at the south wall of the building (along EX1 between EXA and EXB).
11	Structural	Subject:	Vented Metal Floor Deck
		References:	S101 – Note 2

		Description:	Add the following language to the note: "Metal floor deck to be vented unless noted otherwise."
12	Structural	Subject:	Non-Vented Metal Floor Deck
		References:	S101
		Description:	Add note for the portion of type F-1 composite floor above the existing structure to clarify that vented floor deck is NOT to be used. The extents of non-vented floor deck are as follows: between EXA and B, from 7 to 12 and from 1 to sw4.
13	Structural	Subject:	Custom Fabricated Beams
		References:	S104
		Description:	Change Note 12 to "Custom W Beam" indicates a custom fabricated, steel wide flange beam. See S208 for additional information.
14	Structural	Subject:	Roof Deck
		References:	S104
		Description:	Change Note 3 to R-3 indicates span direction of roof construction consisting of 3" deep x 18 gauge galvanized deep rib metal roof deck.
15	Structural	Subject:	Spread Footing Schedule
		References:	S110.1, S110.2, S110.3, S110.4
		Description:	Revise depth of Type F11.0BR footing from 2'-6" to 3'-6" Revise depth of Type F8.0BR footing from 2'-6" to 2'-8" Add Type F8.0SP footing, with 8'-0" width, 8'-0" length and 3'-6" depth. Provide 7-#8 bottom each way. Add Type F10.0SP footing, with 10'-0" width, 10'-0" length and 3'-10" depth. Provide 9-#9 bottom each way.
16	Structural	Subject:	Continuous Footing Schedule
		References:	S110.1, S110.2, S110.3, S110.4
		Description:	Add F4.0C to schedule with 4'-0" width, 1'-4" depth, refer to Section 9/S501 for reinforcing Rename F4.5C as F4.4C Rename F5.0C as F4.5C, change width from 5'-0" to 4'-6" and depth from 1'-6" to 1'-4"
17	Structural	Subject:	Continuous Footing Schedule
		References:	S110.1, S110.4, S500, S504
		Description:	Provide full height concrete encasement of steel columns in parking garage. Provide L3x3x5/16 at corners as shown in Detail A/S500 up to 3'-6" above finish floor. Chamfer corners for remainder of height.
18	Structural	Subject:	Spread Footing Elevation
		References:	S110.1
		Description:	Change footing elevation at Column C.8-EX6 from [11'-3 7/8"] to [11'-6"]
19	Structural	Subject:	Added Section Mark
		References:	S110.1, SKS-2

		Description:	Add section reference mark for new Section 17 on S501 to North wall of Mechanical Room 0039. See SKS.
20	Structural	Subject:	Spread Footing Clarification
		References:	S110.1
		Description:	Footing type at Column B.1-12 is F11.0
21	Structural	Subject:	Continuous Footing Clarification
		References:	S110.1
		Description:	Move F2.0C tag for North wall of NSTAR Vault to the East to coincide with Section 4 on S502 section mark.
22	Structural	Subject:	Continuous Footing Clarification
		References:	S110.1
		Description:	Revise footing elevation tag for 12" infill wall along EX9 at existing stair to actual elevation of +/-18'-8" instead of relative elevation for clarity.
23	Structural	Subject:	Continuous Footing Clarification
		References:	S110.1
		Description:	Change F2.0C tag to F2.5C for East wall of NSTAR Vault and add F2.5C tag to South wall for clarity.
24	Structural	Subject:	Continuous Footing Clarification
		References:	S110.1
		Description:	Add F2.0C footing tags at the perimeter of the NSTAR vault stairs and entry depressions.
25	Structural	Subject:	Continuous Footing Clarification
		References:	S110.1
		Description:	Add F4.0 C footing tags at the perimeter of Mechanical Room 0039 for clarity. Bottom of footing elevation = 14'-2".
26	Structural	Subject:	Continuous Footing Clarification
		References:	S110.1
		Description:	Change F2.0C tags to F2.5C for walls along G and H to match Section 3 and 4/S500.
27	Structural	Subject:	Continuous Footing Clarification
		References:	S110.1
		Description:	Add F2.5C tag to wall along 11 and along 10.6 (east of Line D.1. Bottom of footing elevation = 17'-6".
28	Structural	Subject:	Slab Depression
		References:	S110.1, S110.4
		Description:	Add 3" slab depressions at Rooms 0037 and 0052T. Add the following note: "Remove remaining portion of existing slab and existing walls at ground floor depressions. Refer to Demo and Abatement Drawings"
29	Structural	Subject:	Garage Drain Location
		References:	S110.1

		Description:	Revise locations of two garage drains as follows: Center both between lines B and C, locate one 10'-0" North of line 10.2, locate the other 10'-0" North of line 7.
30	Structural	Subject:	Spread Footing Designations
		References:	S110.1
		Description:	Change the following footing sizes: C.2-12 footing from F12.0 to F11, bottom of footing elevation [15'-0"] E-11.2 from F12.0 to F10.0BR [15'-2"] D.1-10.6 from F8.0 to F7.0 [13'-2"] D.1-10.2 from F12.0 to F14.0 [11'-6"] E-10 from F12.0 to F13.0 [12'-0"] E-6.9 from F13.0BR to F15.0BR [8'-0"] C-EX6 from F12.0 to F11.0 [12'-6"] D.1-8 from F11.0 to F10.0 [17'-2"] E-8 from F12.0 to F13.0 [16'-6"] neA-8 from F12.0 to F11.0 [13'-6"] G.4-11 from F10.0BR to F9.0BR [15'-0"] G-14, G-14.5, H-14.5, and H-14 footings from F6.0BR to F5.0BR. H-15 and H.2-South of 10 footings from F5.0 to F4.0. neA-10 from F12.0BR to F11.0BR [17'-0"] G.7-6.9 from F10.0 to F8.0 [14'-4"]
31	Structural	Subject:	Added Piers
		References:	S110.1
		Description:	Add P-1A designations to B-EX7, B-EX8, and C.2-12 footings. Add P-1 to neA-8 footing Add P2A-BR to E-6.9 footing
32	Structural	Subject:	Added Spread Footing and Pilaster
		References:	S110.1
		Description:	Add F6.0 footing with pilaster type P-3 below Column neA-7.3. Bottom of footing elevation = 14'-10". Column, pier, and footing to be located 3" North of 7.3.
33	Structural	Subject:	Pier Designation
		References:	S110.1
		Description:	Change G.2-6.9 pier designation from P1BR to P1A-BR.
34	Structural	Subject:	Continuous Footing Clarifications
		References:	S110.2
		Description:	Change F2.0C tags to F2.5C at the foundation walls North of and parallel to ne5 and along neB (see Section 7/S500) Add F2.5C tag to foundation wall along M (see Sections 1, 2 and 7/S500). Bottom of footing elevation [17'-6"].
35	Structural	Subject:	Spread Footing Designations
		References:	S110.2
		Description:	Change the following footing sizes: neB.1-ne5 and neE-ne5 footings from F6.0 to F5.0BR [16'-0"] neC-ne5 from F6.0BR to F7.0BR. neB.1-ne4 from F7.0 to F7.0BR [18'-0"]

			<p>neB.1-ne3 and neB.1-ne2 footings from F10.0BR to F8.0BR [17'-10"]</p> <p>neB.1-ne1 from F12.0BR to F11.0BR [17'-0"]</p> <p>M-ne1 from F8.0 to F7.0 [16'-2"]</p> <p>neE-ne1 from F6.0 to F5.0BR [16'-0"]</p> <p>neE-ne2 from F7.0 to F7.0BR [16'-0"]</p> <p>neE-ne3 from F7.0BR to F8.0BR [15'-10"]</p> <p>neB-KS6 from F14.0BR to F11.0BR [17'-0"]</p> <p>neB-7.3 from F6.0 to F7.0 [18'-4"]</p> <p>neB-KS5.2 from F10.0 to F9.0 [17'-6"]</p> <p>L-7.3 from F9.0 to F10.0SP [16'-8"]</p>
36	Structural	Subject:	Spread Footing Elevation
		References:	S110.2
		Description:	Change bottom of footing elevation at L-ne1 footing from 18'-0" to 17'-0".
37	Structural	Subject:	Continuous Footing Clarifications
		References:	S110.3
		Description:	Change F2.0C tags to F2.5C for foundation wall along seA to match Section 7/S500. Change F4.5C tags (two locations) to F4.4C along seC.
38	Structural	Subject:	Spread Footing Designation
		References:	S110.3
		Description:	<p>Change the following footing sizes:</p> <p>M-6.1 footing from F13.0BR to F10.0BR, bottom of footing elevation [15'-2"]</p> <p>G.7-6.6 from F10.0 to F12.0 [13'-2"]</p> <p>G.7-4 from F12.0 to F11.0 [13'-6"]</p> <p>seAA-se5.1 from F12.0BR to F11.0BR [15'-0"]</p> <p>G.7-3 from F12.0 to F11.0 [17'-0"]</p> <p>neA-2.2 from F9.0 to F8.0 [17'-10"]</p> <p>seA-se4 from F9.0 to F10.0BR [15'-2"]</p> <p>seA-se5.1 from F11.0BR to F10.0BR [15'-2"]</p> <p>seC-se4 from F7.0 to F6.0BR [16'-0"]</p> <p>seC-se3 from F9.0BR to F8.0BR [15'-10"]</p> <p>seC-se2 from F9.0BR to F7.0BR [16'-0"]</p> <p>seC-se1 from F6.0 to F5.0BR [16'-0"]</p> <p>seB-se1 and seA-se1 footings from F6.0BR to F5.0BR [16'-0"]</p> <p>seA-se2 from F10.0 to F8.0BR [17'-10"]</p> <p>seA-se3 from F11.0 to F10.0BR [17'-2"]</p>
39	Structural	Subject:	Spread Footing Elevations
		References:	S110.3
		Description:	<p>Change bottom of footing elevation at seB-se5 footing from 16'-0" to 16'-6".</p> <p>Change bottom of footing elevation at neA-1.8 footing from 18'-0" to 17'-10".</p>
40	Structural	Subject:	Garage Drain Location
		References:	S110.4
		Description:	Revise locations of two garage drains as follows: Center both

			between lines B and C, locate one 4'-0" North of line EX4, locate the other 4'-0" North of line EX2.
41	Structural	Subject:	Magee Street Areaway Revisions
		References:	S110.4, S111.4, Section 3/S503, SKS-3
		Description:	Revised areaway walls and footings and add grating as shown in SKS.
42	Structural	Subject:	Spread Footing Deletion
		References:	S110.4
		Description:	Delete F4.0 footing on 1 between D and F.
43	Structural	Subject:	Continuous Footing Clarification
		References:	S110.4
		Description:	Revise elevation for 30" thick mat below storage tanks to actual elevation of 9'-4" instead of relative elevation of [-12'-8"] for clarity.
44	Structural	Subject:	Continuous Footing Clarification
		References:	S110.4
		Description:	Add F2.5C tags wall along sw1 to match Section 9/S500.
45	Structural	Subject:	Continuous Footing Clarification
		References:	S110.4
		Description:	Change F2.0C tags to F4.5C for walls at Mechanical Room 0056 to match Section 9, 10 and 11/S501. Bottom of footing elevation [13'-2"] Change F2.0C tags to F4.0C for walls at Mechanical Room 0058, bottom of footing elevation [14'-2"]
46	Structural	Subject:	Spread Footing Designations
		References:	S110.4
		Description:	Change the following footing sizes: F.2-6 and F.2-5.3 footings from F7.0 to F6.0, bottom of footing elevation [12'-4"] E-4 from F15.0BR to F14.0BR [12'-6"] E-3 from F12.0BR to F11.0BR [11'-0"] G.4-6 and G.4-5.3 footings from F8.0 to F7.0 [18'-2"] G.1-3 from F13.0 to F12.0 [10'-8"] G.1-1 footing from F10.0 to F10.0BR. C.8-1 from F7.0 to F7.0BR [13'-0"] swE-sw1 from F12.0BR to F11.0BR [12'-0"] C-EX2 from F14.0 to F12.0 [16'-0"] C.8-EX3 from F8.0 to F8.0SP [11'-0"]
47	Structural	Subject:	Pier Deletions
		References:	S110.4
		Description:	Delete P-1A at footing C-EX2 Delete P-2 at footing D-2, bottom of footing elevation [14'-2"]
48	Structural	Subject:	Pilaster Designation
		References:	S110.4
		Description:	Change pilaster at D-3 footing from P-3A to P-3.

49	Structural	Subject:	Added Piers
		References:	S110.4
		Description:	Add P-1 designation to G.1-2.2 footing, bottom of footing elevation [15'-0"] Add P-1 to F-2 footing, bottom of footing elevation [12'-0"]
50	Structural	Subject:	Sump Pit Locations and Details
		References:	S110.4, SKS-4
		Description:	Relocate sewage ejector, sediment pit, and sump pit in Mechanical Room 0056 as shown in SKS and add 8" thick concrete walls around pits. Add new section reference mark for Section 16 on S500.
51	Structural	Subject:	Beam Sizes
		References:	S111.1
		Description:	Change the following beam sizes: W21x62 spanning from AA-A, South of 10.6 – change to W21x73 with (10) studs W21x62 from A-B, South of 10.6 – 21x73 (38) W21x122 from AA-A, North of 9.1 – W21x83 (10) W21x122 from A-B, North of 9.1 – W21x83 (38) W40x372 from 9-10.6, on B.1 – W40x431 (30) W44x230 from C-D.1, on 9 – W40x235 (38) W21x62 from E-G.2, on 11.2 – W24x104 (27) W21x62 from G.2-neA, on 11.2 – W24x104 (35) W36x210 from E-G.4, on 10 – W36x231 (31) W33x130 from E-G.4, on 10 – W36x182 (31) W12x26 along North wall of Elevator shaft, on 7.3 – W10x15 (9) W10x15 from neA-H.2, on 9 – W10x22 (13)
52	Structural	Subject:	Number of Studs
		References:	S111.1
		Description:	Change the number of studs on the following beams: W21x132 from AA-A, on 10.3 – change studs from (38) to (10) W21x122 from A-B, on 10.3 – change studs from (10) to (38) W21x122 from AA-A, on 10.3 – change studs from (10) to (38) 8 beams spanning from C-D.1, between 10.6 and 8 – change studs to (38)
53	Structural	Subject:	Clarification of Slab Extents
		References:	S111.1, SKS-5
		Description:	See SKS for clarification of extents of 3" sloping slab over existing areaway.
54	Structural	Subject:	Added Beams
		References:	S111.1
		Description:	Add the following beams: W21x44 (35), spanning from 10-11.2, to make 5 equal spaces between E and G.4. W16x26 (22), from 6.9-8, 4 equal spaces between E and G.2. W16x26, from 11.2-13, 4 equal spaces between G.6 and neA. W16x26, from 13-14, 4 equal spaces between G.6 and neA.

55	Structural	Subject:	Revise Beam Spacing
		References:	S111.1
		Description:	Revise spacing of three W16x26 (24) beams spanning from 8-10, to make 4 equal spaces between E and G.3. Revise spacing of three W16x26 (22) beams spanning from 6.9-8, to make 4 equal spaces between G.2 and the beam on the West side of the MEP shaft.
56	Structural	Subject:	Beam Sizes
		References:	S111.2
		Description:	Change the following beam sizes: W16x31 spanning from L-M, on ne1 – change to W18x35 with (23) studs W16x26 from M-N, on ne1 – W21x19 (15) W18x35 from 7.3-ne1, on ne1 – W16x36 (25) W21x50 from neB-L, South of 6.9 – W18x40 (23)
57	Structural	Subject:	Added Beams
		References:	S111.2
		Description:	Add the following beams: Two W10x15 (10), spanning from 7.3-8, to make 3 equal spaces between M and N. Two W12x16 (15), spanning from 8-ne1, to make 3 equal spaces between M and N.
58	Structural	Subject:	Beam Elevations
		References:	S111.2, S111.3
		Description:	Revise the elevations of HSS12x8x1/2 beams along ne5, neE, ne1, se1, and seC from [-2'-10"] to [-2'-9"] (13 beams total).
59	Structural	Subject:	Beam Sizes
		References:	S111.2, SKS-6
		Description:	Add W8x21tags to six unidentified beams at North entry canopy as shown in SKS.
60	Structural	Subject:	Section Reference
		References:	S111.2
		Description:	Section 12 on S602 applies at HSS12x8x1/2 beams along ne5, neE, and ne1.
61	Structural	Subject:	Add Studs
		References:	S111.2
		Description:	Add (22) studs to W16x26 beams spanning from neB-L on 7.3.
62	Structural	Subject:	Move Beam
		References:	S111.2
		Description:	W10x22 from H.2-neB.1 along ne1 – offset to the South of ne1 by 12" and add note to provide connection between beam and Column neB-ne1. Connection between Column neB-ne1 and neB.1-ne1 also required.

63	Structural	Subject:	Add Outrigger
		References:	S111.2
		Description:	Add outrigger and the following note the W16x26 beam spanning from N to neD.6 on 8: "HSS7x5x1/2 outrigger – provide full penetration moment connection to bottom flange".
64	Structural	Subject:	Add Outriggers
		References:	S111.3
		Description:	Add two outriggers and the following note the W24x94 beam spanning from 5.2 to 6.1 on neD.6: "2 - HSS7x5x1/2 outriggers (one above floor and one below beam). Provide full penetration moment connections to column web and bottom flange respectively".
65	Structural	Subject:	Beam Sizes
		References:	S111.3
		Description:	Change the following beam sizes: W24x55 spanning from 6.1-7.3, on M – change to W24x104 with (33) studs W24x55 from 5-6.1, on ne1 – W24x104 (31) W30x90 from se3.1-se5.1, on seAA – W27x84 (27) W16x36 from seAA-seA, on se5.1 – W18x46 W30x99 from 5.5-6.6, on G.7 – W30x108 (30) W16x31 from neA-seA, on 2.2 – W18x35 (24)
66	Structural	Subject:	Number of Studs
		References:	S111.3
		Description:	Change the number of studs on the following beams: W27x94 from 4-5.5, on G.7 – change studs from (29) to (35) Three beams spanning from 2.2-3, between neA and seAA – change studs to (21)
67	Structural	Subject:	Beam Sizes
		References:	S111.3
		Description:	Add W12x26(4) tags to 3 unlabeled beams at Magee entry. Top of steel elevation [-1'-5"].
68	Structural	Subject:	Beam Sizes
		References:	S111.4
		Description:	Change the following beam sizes: W27x84 spanning from EX4-EX5, on C – change to W24x76 with (25) studs W30x124 from EX5-EX6, on C – W30x116 (61) W36x160 from EX3-EX4, on C – W36x150 (29) W40x183 from EX3-EX4, on C.8 – W40x167 (25) W27x84 from EX4-EX5, on C.8 – W24x76 (25) W36x135 from EX5-EX6, on C.8 – W33x130 (36) W24x131 from swB-B, on sw2 – W18x211 (39) W40x149 from EX1-EX2, on B – W40x167 (50) W24x55 from B-C, on EX2 – W16x26 (25) W27x94 from EX1-EX2, on swE – W30x99 (20) W27x94 from EX1-EX2, East of and parallel to swE – W27x84 (35)

			<p>W24x104 spanning from East side of Mechanical shaft to D, South of 2 – W27x84 (38)                  W24x131 spanning from South of 2 to EX2, West of C.8 – W27x129 (20)                  W24x94 from F-G.1, on 1 – W24x104 (14)                  W24x94 from G.1-neA, on 1 – W24x104 (31)                  W21x93 from G.2-G.7, on 4 – W24x62 (35)                  W16x26 from D-E, on 3 – W16x31 (17)                  W16x26 from E-G.1, on 3 – W16x31 (17)                  W36x210 from C-D, on 3 – W36x182 (44)                  Two W21x62 beams spanning from C to C.8 north and south of 6.3 – W24x62 (27)                  Seven W16x36 beams spanning from B-C between sw4 and North of EX5 – W16x26 (25)</p>
69	Structural	Subject:	Add Studs
		References:	S111.4
		Description:	<p>Add studs to the following beams:                  (5) studs to W16x26 beam spanning from 3-EX3 on C.8.                  (6) studs to W16x26 beam on C.8 spanning from 3 to the adjacent beam to the South.                  (5) studs to two W12x26 beams along swB between sw2 and sw3.                  (11) studs to W24x55 beam on A spanning from sw2 to sw3.                  (33) studs to W21x68 beam on A spanning from sw3 to sw4.                  (8) studs to three W18x35 beams spanning from G.4 to W18x65 east of G.4 between 5.3 and 6.                  Eight kinked W18x35 beams at auditorium seating (four North of 6 and four South of 5.3). Provide 1 studs per foot of length for each beam.                  (21) studs to five kinked W18x35 beams at Auditorium Part Plan, spanning from F.2-G.4 between 5.3 and 6.                  Ten kinked W18x35 beams at Auditorium Part Plan (five North of 6 and five South of 5.3). Provide 1 stud per foot of length for each beam.</p>
70	Structural	Subject:	Number of Studs
		References:	S111.4
		Description:	<p>Change number of studs on the following beams:                  W21x122 from G.4-G.7, on 6 – change studs from (12) to (20)                  W21x122 from G.4-G.7, on 5.3 – change studs from (12) to (20)</p>
71	Structural	Subject:	Beam Sizes
		References:	S111.4
		Description:	<p>Add tags to five unlabeled cantilevered beams West of A between sw3 and sw4. Beam sizes to match the moment connected beams East of A. Provide 1 stud per foot of length.</p>
72	Structural	Subject:	Revise Beam Spacing
		References:	S111.4
		Description:	<p>Revise spacing of two W14x22 (19) beams spanning from 3-4, to make 4 equal spaces between G.2 and the beam on the West side of the MEP shaft.</p>

73	Structural	Subject:	Added Beam
		References:	S111.4
		Description:	Add W14x22(19) spanning from 3-4, to make 4 equal spaces between E and G.2.
74	Structural	Subject:	Added Beams
		References:	S111.4, SKS-29
		Description:	Add twelve W18x35 beams below existing slab at planters. Install beams tight to the underside of the existing joist slab halfway between existing ribs. Beams to span between W18x143 beams. Provide shims as required. See SKS.
75	Structural	Subject:	Clarification to Floor Construction
		References:	S111.4
		Description:	Add the following note to the portion of F-1 floor construction between sw2 and sw3 to the west of A: "Concrete topping thickness varies from 2-1/2" (min.) to 4" to create slope for drainage. See Architectural Drawings".
76	Structural	Subject:	Beam Sizes
		References:	S112.1
		Description:	Change the following beam sizes: W27x129 spanning from A-B.1, on 12 – change to W24x162 with (40) studs W12x16 spanning from A to adjacent beam between 7 and 9.1 – W18x35 (6). W24x55 from B.1-C.2, on 12 – W24x76 (27) W21x50 from C.2-D.1, on 12 – W24x76 (29) W12x26 from 9.1-10.3, on AA – W10x22 (16) W14x30 from 9.1-10.3, on A – W12x26 (16) W24x68 from B.1-.2, on 10.3 – W24x76 (27) W24x68 from B.1-.2, on 9.1 – W24x76 (27) W24x62 from C.2-D.1, on 10.6 – W24x76 (28) W24x76 from C.2-D.1, on 9 – W24x68 (28) W21x44 from 7-9, on C.2 – W21x50 (34) W27x129 from A-B.1, on 7 – W24x146 (40) W24x55 B.1-C.2, on 7 – W24x62 (27) W21x50 from 7-9.1, on A – W24x146 (38) W18x40 from 8-10, on E – W16x26 (24) W21x44 from 8-10, on G.3 – W16x26 (24) W21x62 from E-G.3, on 11.2 – W24x94 (28) W24x55 from E-G.3, on 8 – W24x62 (25) W21x62 from G.3-neA, on 11.2 – W24x94 (34) W18x35 from 6.9-8, on G.2 – W16x26 (22) W12x26 along North wall of Elevator shaft, on 7.3 – W10x15 (7) W16x26 from 6.9-8, on C.8 – W16x36 (22)
77	Structural	Subject:	Section References
		References:	S112.1
		Description:	Change Section 1 on S601 reference marks along 12 (two locations) to Section 3 on S601. Change Section 2 on S601 reference mark along A (two

			locations) to Section 3 (SIM) on S601.
78	Structural	Subject:	Revisions to Canopy
		References:	S112.1, SKS-7
		Description:	Add W10x30 on 7 at C.8 and revise framing per SKS. Change W16x26 beams spanning from C.2-C.8 on 7 to W10x30. Add Section reference mark for new Section 18 on S602. See SKS.
79	Structural	Subject:	Added Beam
		References:	S112.1
		Description:	W16x26 (22), from 6.9-8, 4 equal spaces between E and G.2.
80	Structural	Subject:	Revise Beam Spacing
		References:	S112.1
		Description:	Revise spacing of three W16x26 (22) beams spanning from 6.9-8, to make 4 equal spaces between G.2 and the beam on the West side of the MEP shaft.
81	Structural	Subject:	Number of Studs
		References:	S112.1
		Description:	Change number of studs on the following beams: W24x68 from C.8-E, on 8 – change studs from (27) to (30) W24x62 from E-G.2, on 10 – change studs from (26) to (30)
82	Structural	Subject:	Add Studs
		References:	S112.1
		Description:	Add (5) studs to two W10x15 beams between 10 and 11.2, spanning from neA to the west.
83	Structural	Subject:	Add Continuous Relieving Angle, Hangers and Bracing Beams
		References:	S112.1, SKS-8
		Description:	Add continuous relieving angle and channel hangers along 12 and A (similar to S113.1) as shown in SKS. Add two W18x35 (6) bracing beams perpendicular to W30x90 on A. Add two W10x15 (5) bracing beams perpendicular to W14x30 on A.
84	Structural	Subject:	Beam Sizes
		References:	S112.2
		Description:	Change the following beam sizes: W36x231 spanning from neB.1-neE, north of ne1 – change to W36x210 W18x40 from 8-10, on neA – W21x44 (25) W16x31 from 8-ne1, on L – W24x55 (17) W12x19 from 8-7.3, on L – W10x15 (10) W24x94 from M-seB.2, on 7.3 – W24x76 (12) W24x94 from seB.2-neD.6, on 7.3 – W24x76 (7)
85	Structural	Subject:	Beam Size and Framing Clarification
		References:	S112.2, SKS-9
		Description:	Revise roof framing along ne5 SKS.
86	Structural	Subject:	Add Studs
		References:	S112.2

		Description:	Add (22) studs to W16x31 on 7.3 spanning from neB-L.
87	Structural	Subject:	Move Beam
		References:	S112.2
		Description:	W24x55 from neA to neB.1 on ne1 – offset to the South of ne1 by 12". Provide connection between beam and Column neB-ne1. A connection between Column neB.1-ne1 and Column neB-ne1 is also required.
88	Structural	Subject:	Add Outrigger
		References:	S112.2
		Description:	Add outrigger and the following note the W16x26 beam spanning from N to neD.6 on 8: "HSS7x5x1/2 outrigger – provide full penetration moment connection to beam end plate".
89	Structural	Subject:	Add Outrigger
		References:	S112.3
		Description:	Add outrigger and the following note Column neD.6-5.2: "HSS7x5x1/2 outrigger – provide full penetration moment connection to column web".
90	Structural	Subject:	Added Beam Penetration
		References:	S112.3
		Description:	A 20" wide by 8" high beam penetration is required in W24x55 beam spanning from G.7-5 to neB-KS3. Refer to Mechanical Drawings and the typical detail on S005.
91	Structural	Subject:	Beam Sizes
		References:	S112.3
		Description:	Change the following beam sizes: W27x84 spanning from 6.1-7.3, on M – change to W24x94 with (41) studs. W24x55 from 5-6.1, on M – W24x94 (36) W18x35 from M-neD.6, on 6.1 – W18x40 (18) W12x26 from 5-5.2, between M and N – W10x15 (8) W27x102 from L-M, on 5 – W27x84 (25) W27x102 from M-N, on 5 – W27x84 (13) W12x16 spanning from 3.4 to the W27x161 to the North, East of L – W12x19 (18) W12x26 from South of se2 to the edge of entry canopy, on neB – W14x34 W24x94 from se4 to North of se3.1, on seC – W24x117 (12) Three HSS8x8x1/2 beams spanning from neA.1 to neB, near 1 – change to HSS8x8x5/8 W27x102 spanning over the top of the compound column – W24x131 (28) W27x161 spanning from L-5 to neD.5-3.4 – W24x192 (X) W30x90 from seA-Compound Column, on 3.4 – W24x104 (30)
92	Structural	Subject:	Add Studs
		References:	S112.3
		Description:	Add (5) studs to two W16x26 beams on 6.5, spanning to the east and west of M.

			Add (9) studs to two W10x22 beams east of L, spanning from se5.1 to 3.4.
93	Structural	Subject:	Number of Studs
		References:	S112.3
		Description:	Change the number of studs on the following beams: W21x44 spanning from KS3-KS4.1, on neB – change studs from (30) to (32) W12x16 from 5.2-6.1, on neD.6 – change studs from (18) to (23).
94	Structural	Subject:	Clarification of Fireproofing and E.V.S.S
		References:	S112.3
		Description:	All exposed steel in Upper and Lower School Gyms to be E.V.S.S. All clear-spanning beams, with the exception of
95	Structural	Subject:	Added Beam
		References:	S112.3
		Description:	Add W14x34 beam at elevation [-1'-8"] along seA, spanning from se4 to se5.1.
96	Structural	Subject:	Beam Sizes
		References:	S112.4
		Description:	Change the following beam sizes: W21x50 spanning from C.8-F, on 1 – change to W24x94 with (32) studs. W21x50 from G.1-neA, on 1 – W24x94 (31) W21x50 from F-G.1, on 1 – W12x58 (14) W21x44 from 2-3, near C.8 – W18x35 (35) W21x50 from sw1-sw2, on swB – W24x94 (42) W21x44 from sw3-sw4, on swA – W24x94 (35) W24x55 from swA-A, on sw4 – W24x76 (10) W24x55 from A-swC, on sw4 – W24x76 (18) W24x55 from swC-stair, on sw4 – W24x76 (3) W24x55 from stair-swD, on sw4 – W24x104 (3) W24x55 from swD-swF, on sw4 – W24x104 (28) W12x16 from swB to adjacent beam, between sw1 and sw2 – W18x35 (5). W10x15 from South of 6.6-6.9, between G.2 and G.4 – W10x30 (13) W12x19 from spanning from beam along 7 from C.2 to C.8 to hanger at canopy – W10x30
97	Structural	Subject:	Add Studs
		References:	S112.4
		Description:	Add (6) studs to W24x84 spanning from swA-A on sw3. Add (4) studs to W18x55 spanning from swA-A on sw2. Add (5) studs to W10x15 spanning West from neA on 1.8. Add (3) studs to W10x15 spanning South from 2, between F and G.1. Add (3) studs to three W10x16 beams spanning North from 1, between F and G.1.

98	Structural	Subject:	Add Continuous Relieving Angle, Hangers and Bracing Beams
		References:	S112.4, SKS-10
		Description:	Add continuous relieving angle and channel hangers along swB, swA, and sw4 (similar to S113.4) as shown in SKS. Add three W16x26 (5) bracing beams perpendicular to W24x94 on swA. Add two W18x35 (5) bracing beams perpendicular to W24x94 on swB.
99	Structural	Subject:	Section References
		References:	S112.4
		Description:	Change Section 1 on S601 reference marks along sw4 (two locations) to Section 3 on S601. Change Section 2 on S601 reference mark along swA to Section 3 (SIM) on S601. Change Section 2 on S601 reference mark along swB to Section 17 on S601.
100	Structural	Subject:	Added Beam
		References:	S112.4
		Description:	Add W16x26 (20) spanning from 3-4, to make 4 equal spaces between E and G.2.
101	Structural	Subject:	Revise Beam Spacing
		References:	S112.4
		Description:	Revise spacing of two W16x26 (20) beams spanning from 3-4, to make 4 equal spaces between G.2 and the beam on the West side of the MEP shaft.
102	Structural	Subject:	Number of Studs
		References:	S112.4
		Description:	Change number of studs on the following beams: Nine W16x26 beams spanning from 3-4 between C.8 and G.7 change number of studs from (19)-(20). W16x36 from 3-4 on E - change from (19) to (20) W16x26 from E-G.1 on 3 - change from (17) to (20)
103	Structural	Subject:	Revisions to Balcony Framing
		References:	S112.4
		Description:	Add studs to all balcony framing beams. Provide 1 stud per foot of length for each beam. Change tag of six kinked W16x45 beams from "W16x45" to "W16x45 (CUT) + W10X39".
104	Structural	Subject:	Beam Sizes
		References:	S113.1
		Description:	Change the following beam sizes: W12x16 spanning from North of 9.1 to South of 10.3, on AA - change to W12x26 W30x90 from 7-9.1, on A - W24x146 (35) W10x15 from AA-A, North of 9.1 - W12x26 W12x16 spanning perpendicular to AA, South of 9.12-3 - W18x35 (6)

			<p>W27x129 from A-B.1, on 7 – W24x146 (38)  W24x55 from B.1-C.2, on 7 – W24x62 (28)  W24x68 from B.1-C.2, on 10.3 – W24x76 (27)  W24x68 from B.1-C.2, on 9.1 – W24x76 (27)  Three W12x26 beams spanning from 10.3-South of 10.8 between A.2 and B.1 – W10x22 (10)  W24x55 from A.2-B.1, North of 10.6 – W21x50 (27)  W30x99 from 10.2-12, on B.1 – W30x90 (42)  W24x55 from E-G.3, on 8 – W24x62 (25)  W24x68 from G.3-neA, on 8 – W24x76 (31)  W24x76 from E-G.3, on 11.2 – W24x94 (25)  W24x76 from G.3-neA, on 11.2 – W24x94 (32)  W24x55 from 10-11.2, on neA – W24x62 (35)</p>
105	Structural	Subject:	Delete Studs
		References:	S113.1
		Description:	Studs are not required on W12x16 beam spanning from A-A.2, South of 10.8.
106	Structural	Subject:	Number of Studs
		References:	S113.1
		Description:	Change the number of studs to (31) on the two W18s spanning from 9-10.6 between C.2 and D.1 – change studs to (31)
107	Structural	Subject:	Add Studs
		References:	S113.1
		Description:	Add (7) studs to W12x16 beam spanning from D.1 to the East, South of 10.6.
108	Structural	Subject:	Beam Size
		References:	S113.1
		Description:	Add W8x18 (10) tag to unlabeled beam spanning from 7.3-8, East of neA.1.
109	Structural	Subject:	Added Beam Penetration
		References:	S113.1
		Description:	An 8" wide by 8" high beam penetration is required in W24x94 beam spanning from A.2-10.3 to A.2-12. Refer to Mechanical Drawings and the typical detail on S005.
110	Structural	Subject:	Revise Beam Spacing
		References:	S113.1
		Description:	Revise spacing of six W16x26 (22) beams spanning from 8 to 10 between E and the Mechanical Shaft. Provide four equal spaces between E and G.2 and three equal spaces between G.2 and the beam to the West of the shaft.
111	Structural	Subject:	Beam Sizes
		References:	S113.2
		Description:	Change the following beam sizes: Five HSS8x8x1/2 spanning from neA.1-neB, South of 11.2 – HSS8x8x5/8 Tapered W Beam from neB-neA, on ne1 – W24X62 (21)

			W16x31 from L-M, South of ne1 – W16x26 W12x16 from M-N, North of ne1 – W14x22
112	Structural	Subject:	Revised Framing
		References:	S113.2, SKS-11
		Description:	Revise framing between neA.1 and neB, North of ne1 per SKS.
113	Structural	Subject:	Add Studs
		References:	S113.2
		Description:	Add studs to four W10x15 beams spanning perpendicular to the East from neB. Provide 1 stud per foot of length for each beam.
114	Structural	Subject:	Beam Sizes
		References:	S113.3
		Description:	Change the following beam sizes: W18x35 spanning from 6.1-7.3, on seA – change to W21x50 with (33) studs Three W12x26 from 6.1-KS5, between neB and L – W10x22 (12) W18x35 from 6.1-7.3, on N – W16x26 Two W16x45 beams South of and parallel to KS1, between neA and neB – W16x26 Three HSS8x8x1/2 beams spanning from neA.1-neB, South of 2 – HSS8x8x5/8 HSS20x8x1/2 along neA.1, North of a – HSS20x8x5/8
115	Structural	Subject:	PV Trellis Framing
		References:	S113.3, SKS-12
		Description:	Add kickers along North edge of trellis to new roof beams below. Add 1" diameter tension rod bracing in two additional bays of trellis. Add note to West ends of 28x12 box girders to provide thermal isolation end plate connection.
116	Structural	Subject:	Add Outriggers
		References:	S113.3
		Description:	Add outriggers and the following notes to the W14x22 beam spanning from 6.1 to 6.5 along neD.6 and Column neD.6-5.2: "HSS7x5x1/2 outrigger – provide full penetration moment connection to bottom flange and column web, respectively".
117	Structural	Subject:	Added Beam Penetration
		References:	S113.3
		Description:	An 18" wide by 6" high beam penetration is required in W18x35 beam spanning from G.7-5 to neB-KS3. Refer to Mechanical Drawings and the typical detail on S005.
118	Structural	Subject:	Number of Studs
		References:	S113.3
		Description:	Change the number of studs for following beams: Three W12x16 beams spanning from 5-5.5 between G.7 and neB – change studs to (13). W16x26 from 5-5.5, on G.7 – change from (16) to (12). W8x18 from 4-5, on G.7 – change from (6) to (10).

			W21x50 spanning from G.7/6.6 to neB/KS5 – change from (25) to (29)
119	Structural	Subject:	Beam Sizes
		References:	S113.4
		Description:	Change the following beam sizes: W16x31 spanning from G.2-G.7, North of 4 – change to W12x30 with (29) studs Two W16x31 beams spanning from G.2-G.7, on 5.5 and South of 5.5 – W16x26 (29) W16x31 from 4-5.1, on C.8 – W16x26 (18) W16x31 from 6.3-6.9, on C.8 – W16x26 (18) Seven W16x31 (27) beams spanning from 2-3, between C.8 and G.7 – W16x26 (27) W16x31 from swC-wD, South of Stair 1 – W18x35 (18) W21x44 from sw3-sw4, on swF – W24x55 (35) W24x62 from C.8-F, on 1 – W24x94 (32) W24x62 from F-neA, on 1 – W24x94 (31)
120	Structural	Subject:	Number of Studs
		References:	S113.4
		Description:	Change number of studs on the following beams: Eleven W16x26 beams spanning from 3-4 between C.8 and G.7 change number of studs from (19)-(20). W24x76 from G.1-neA, on 2 - change from (35) to (37) W16x26 from 1-2, on C.8 - change from (45) to (23)
121	Structural	Subject:	Add Studs
		References:	S113.4
		Description:	Add (26) studs to W16x26 beam spanning from North of 1 to north of sw2, located West of C.8. Add studs to three cantilevered beams West of A. Provide 1 stud per foot of length for each beam.
122	Structural	Subject:	Added Beams
		References:	S113.4
		Description:	Add W16x26 (27) spanning from 2-3 between C.8 and F to make 5 equal spaces. Add W16x26 (24) from E-G.2 on 5. Revise spacing of beams to North and South to make 2 equal spaces between 5 and 5.5 and 4 and 5. Add W16x26 (29) from G.2-G.7 on 5. Revise spacing of beams to North and South to make 2 equal spaces between 5 and 5.5 and 4 and 5.
123	Structural	Subject:	Change Section Mark
		References:	S113.4
		Description:	Change the reference mark for Section 3 on S601 along swB between sw1 and sw2 to Section 17 on S601.
124	Structural	Subject:	Beam Sizes
		References:	S114.1
		Description:	Change the following beam sizes:

			<p>W21x50 from 7-9.1, on A – W24x55                  W21x44 from A-B.1 on 10.6 – W21x62                  W21x44 from B.1-C.2, on 12 – W24x55                  W21x62 from C.2-D.1, on 12 – W24x62                  W24x76 from 10.2-12, on B.1 – W24x62                  W24x55 from E-G.3, on 10 – W24x62                  W18x50 from E-G.3, on 8 – W24x68                  W18x40 from C.8-E, on 8 – W24x55                  W24x55 from G.3-neA, on 8 – W24x84                  W24x68 from G.3-neA, on 10 – W27x84                  Eleven W16x26 beams spanning from 8 to 10 between C.8 and neA – W16x31                  Two W10x15 beams spanning West from neA between 8 and 10 – W12x16                  Two W10x30 beams cantilevering West from neB between 8 and ne1 – W10x22</p>
125	Structural	Subject:	Added Beams
		References:	S114.1
		Description:	<p>Add W16x31 beam spanning from 8 to 10 between E and G.3 to make 5 equal spaces.                  Add W16x31 beam spanning from 8 to 10 between G.3 and neA to make 6 equal spaces.</p>
126	Structural	Subject:	Revised Concrete Slab Extents and Added Reinforcing
		References:	S114.1, SKS-13
		Description:	<p>Revise extents of concrete slab on roof deck and framing at roof top units as shown in SKS.                  Add reinforcing bars to slab.</p>
127	Structural	Subject:	Add Continuous Relieving Angle, Hangers and Bracing Beams
		References:	S114.1, SKS-14
		Description:	<p>Add continuous relieving angle and channel hangers along 12 and A as shown in SKS. Add six W10x15 bracing beams perpendicular to W24x55 on A. Add one W18x35 bracing beam perpendicular to W24x55 on 12. Add one W21x44 bracing beam perpendicular to W24x62 on 12.</p>
128	Structural	Subject:	Section References
		References:	S114.1
		Description:	<p>Change Section 2 on S703 reference mark along 12 to Section 4 (SIM) on S703.                  Change Section 1 on S703 reference mark along A to Section 4 on S703.</p>
129	Structural	Subject:	Revised Stair 3 Roof Framing
		References:	S114.1, SKS-15
		Description:	Revise framing at Stair 3 Roof as shown in SKS.
130	Structural	Subject:	Beam Sizes
		References:	S114.2
		Description:	Change the following beam sizes:

			<p>W18x40 from sw1-sw2, on swB – W21x44                  W18x40 from sw3-sw4, on swA – W21x44                  W24x131 from swA-A, on sw3 – W24x62                  W18x35 from swA-A, on sw4 – W21x44                  W18x35 from A-swC, on sw4 – W21x44                  W21x44 from swD-swF, on sw4 – W21x50                  W21x44 from swB-swC, on sw1 – W18x40                  W21x44 from swD-swE, on sw1 – W18x40                  Two W16x26 beams spanning from 2-South of 3, between swF and C.8 – W12x19                  W24x84 from 2-3, on neA – W24x94</p>
131	Structural	Subject:	Add Continuous Relieving Angle, Hangers and Bracing Beams
		References:	S114.2, SKS-16
		Description:	Add continuous relieving angle and channel hangers along swB, swA, sw4 and swE as shown in SKS. Add three W12x16 bracing beams perpendicular to W21x44 on swB. Add six W10x15 bracing beams perpendicular to W21x44 on swA. Add four W10x15 bracing beams perpendicular to W21x44 on swE.
132	Structural	Subject:	Section References
		References:	S114.2
		Description:	Change Section 2 on S703 reference marks along sw4 (two locations) to Section 4 (SIM) on S703. Change Section 1 on S703 reference mark along swA to Section 4 on S703.
133	Structural	Subject:	Beam Elevations
		References:	S114.2
		Description:	Add [0'-6"] elevation to three beams along 3 spanning from C.8 to G.7.
134	Structural	Subject:	Added Beam
		References:	S114.2
		Description:	Add W10x15 bracing beam perpendicular to HSS column on seA, South of se5.1. Add 12x26 beam perpendicular to the North of sw4 at Stair 1 Roof (between swC and swD) to make 3 equal spaces between HSS columns at stair corners. Also add HSS4x4x3/8 post up from new beam for brick support.
135	Structural	Subject:	Roof Deck Type
		References:	S114.3
		Description:	Change R-3A* roof deck to R-3. R-3 designates 3" deep x 18 gauge galvanized deep rib metal roof deck.
136	Structural	Subject:	Beam Sizes
		References:	S114.3
		Description:	Change the following beam sizes: W16x26 from 4-5.1, on C.8 – W10x15 W16x26 from 5.1-6.3, on C.8 – W14x22 W16x26 from 6.9-8, on C.8 – W12x16 Two W21x44 beams spanning from 6.6-8 between G.g and neA -

			<p>W18x35                  W21x55 from 6.6-8, on neA – W21x50                  W16x26 from 3-4, G.7 – W12x16                  Two W12x16 from G.7 to the East, between 3 and 4 – W10x15                  W18x40 from 3-4, on neA – W14x30                  W18x40 from KS1-KS2 on neA.1 – W18x46                  W18x40 cantilevered beam from KS1 to the South, on neA.1 – W18x46                  W18x40 from KS1-KS2 on neB – W18x46                  W18x40 cantilevered beam from KS1 to the South, on neB – W18x46                  W18x40 from KS2-KS3 on neA.1 – W12x16                  W18x40 from KS2-KS3 on neB – W12x16                  W16x26 from 4-5.5 on neA – W18x35                  W18x35 from 5.5-6.6 on neA – W21x50                  W18x40 from KS4-KS5 on neA.1 – W12x16                  W18x40 from KS4-KS5 on neB – W12x16                  W18x40 from KS5-KS6 on neA.1 – W18x46                  W18x40 from KS6-ne1 on neA.1 – W14x30                  W18x40 cantilevered beam from ne1 to the North, on neA.1 – W14x30                  W18x40 from KS6-ne1 on neB – W14x30                  W18x40 cantilevered beam from ne1 to the North, on neB – W14x30</p>
137	Structural	Subject:	Custom Fabricated Beams
		References:	S114.3
		Description:	Revise "Tapered W Beam" tag to "Custom W Beam" at seven locations.
138	Structural	Subject:	Custom Fabricated Beams
		References:	S114.3, SKS-28
		Description:	Add new section reference at Custom W Beam connection to hanger at KS2-neA for Section 6a on S705. See SKS.
139	Structural	Subject:	HSS V Brace Detail
		References:	S203
		Description:	Replace stiffener plate note with "2-1/2" x 3/8" (min.) thick stiffener plate each side"
140	Structural	Subject:	Base Plate Notes
		References:	S204, S205, S206
		Description:	Add the following to Note 2: "Base plate elevations at columns bearing on existing footings or walls are to be verified in field" Replace "S209" with "S210" in Note 2 Replace "S208" with "S208 and S209" in Note 3.
141	Structural	Subject:	Base Plate Thermal Isolation
		References:	S204, S205, S206
		Description:	Eliminate thermal isolation plate below exterior steel columns and steel columns in the Garage.
142	Structural	Subject:	Column Base Plate Elevations

		References:	S204
		Description:	Change the following base plate elevations: Column A-7 from 31'-0" to 33'-0" Column B.1-12 from 20'-8" to 19'-7" Column C.2-12 from 20'-0" to 20'-7" Columns D-2 from 16'-6" to 17'-8" Columns D-3, D-4, D-5.3, D-6, D-6.9, E-3, E-4, E-6.9, and F.2-5.3 from 16'-7" to 16'-8" Column E-10 from 20'-0" to 20'-8" Column E-11.2 from 18'-8" to 20'-8" Column F-2 from 15'-7" to 17'-8"
143	Structural	Subject:	Added Base Plate Designations
		References:	S204
		Description:	Add the following base plate designations: Column A-9.1 - BP C-BR-2 EL. 32'-4" Column A-10.3 - BP C EL. 32'-4" Column A-10.8 BP C EL. 33'-0"
144	Structural	Subject:	Column Sizes
		References:	S204
		Description:	Change the following column sizes: Column A-10.3 from W12x65 to W12x72 Column A-12 from W12x50 to W12x53 Column C.8-4 from W12x53 to W12x45 Column C.8-5.1 from W12x53 to W12x40 Column C.8-6.3 from W12x53 to W12x40 Column D-2 from W14x145 to W14x90 Column D-4 from W14x43 to W14x48 Column D-6 from W14x53 to W14x61 Column D-6.9 from W14x43 to W14x53 Column D.1-10.2 from W12x106 to W12x96 Column D.1-12 from W12x40 to W12x58 Column E-3 from W12x72 to W12x65 Column E-4 from W12x79 to W12x72 Column E-8 from W12x96 to W12x106 and W12x79 to W12x87 Column E-10 from W12x106 to W12x120 Column F-2 from W12x65 to W12x72 Column G.1-2.2 from W14x145 to W14x132 Column G.1-3 from W12x87 to W12x79 Column G.2-4 from W12x96 to W12x87 and W12x87 to W12x79
145	Structural	Subject:	Column Base Plate Designations
		References:	S204
		Description:	Change the following column base plate designations: Column D-3 from BP D to BP C
146	Structural	Subject:	Column Sizes
		References:	S205
		Description:	Change the following column sizes: Column G.4-8 from W14x211 to W14x233 Columns G.7-5 and L-3.4 from W12x53 to W12x40 Column G.7-5.5 from W12x72 to W12x79

			<p>Column H-14 from HSS5x5x3/8 to HSS5x5x1/2                  Column L-6.1 from W12x72 to W12x65                  Column L-8 from W12x53 to W12x40 and from W12x65 to W12x50                  Change Column neB-8 from W12x58 to W12x65                  Column neB-7.3 from W12x79 to W12x40                  Column neB-8 from W12x96 to W12x53                  Column neD.6-6.1 from W12x40 to W12x45                  Column B-EX2 from W14x145 to W14x120                  Column B-EX6 from W14x159 to W14x145</p>
147	Structural	Subject:	Column Base Plate Designations
		References:	S205
		Description:	<p>Change the following column base plate designations:                  Column G.4-10 from BP C-BR to BP D-BR                  Columns G.7-3, G.7-4, and neB-8 from BP D to BP C                  Column B-EX4 from BP C to BP D</p>
148	Structural	Subject:	Added Base Plate Designations
		References:	S205
		Description:	<p>Add the following base plate designations:                  Columns neA-7.3 and neB-7.3 - BP C EL. 20'-6"</p>
149	Structural	Subject:	Column Base Plate Elevations
		References:	S205
		Description:	<p>Change the following base plate elevations:                  Columns B-EX3 and B-EX4 from 20'-3" to 20'-5"                  Column B-EX5 from 19'-1" to 19'-3"                  Column B-EX6 from 19'-2" to 19'-4"</p>
150	Structural	Subject:	Column Sizes
		References:	S206
		Description:	<p>Change the following column sizes:                  Column C-EX2 from W14x233 to W14x257                  Column C-EX4 from W14x68 to W14x61                  Column C-EX5 from W14x53 to W14x61                  Column C-EX6 from W14x120 to W14x82                  Column L-ne1 from W12x50 to W12x53                  Column N-ne1 from W12x50 to W12x40                  Column neB-KS5 from W12x53 to W12x40                  Column neB.1-ne1 from W12x50 to W12x53                  Columns neD.5-3.4 and neD.6-5.2 from W12x40 to W12x58                  Column seA-se3.1 from W12x87 to W12x40                  Column seA-se5.1 from W12x53 (top) to W12x40 and from W12x53 (bot.) to W12x50                  Columns seB-se5, seC-se5, and H.2-South of ne1 from HSS5x5x1/4 to HSS5x5x5/16                  Column swE-sw1 from W12x65 to W12x53                  Column swB-sw2 from W12x72 to W12x65                  Column swE-sw2 from W12x65 to W12x58                  Column swC-sw4 from W12x45 to W12x40                  Column swD-sw4 from W12x58 to W12x53                  Columns 10" West of swA and South of sw2 from HSS5x5x3/8 to HSS5x5x1/2</p>

151	Structural	Subject:	Column Base Plate Elevations
		References:	S206
		Description:	Change the following base plate elevations: Column C.8-EX3 from 20'-2" to 20'-4" Columns C.8-EX4, C.8-EX5, and C.8-EX6 from 20'-0" to 20'-4"
152	Structural	Subject:	Column Base Plate Designation
		References:	S206
		Description:	Change the following base plate designations: Column neA-South of ne2 – change from BP C-BR-2 to BP C. Column neB.1-ne1 – change from BP C-BR to BP C-BR-SP.
153	Structural	Subject:	Intumescent Paint Designation
		References:	S206
		Description:	Add intumescent paint designation (i) to Column swA (-0'-10")-sw2.
154	Structural	Subject:	Add Column
		References:	S206
		Description:	Add W12x40 – BP C-BR-SP EL. 20'-8" at neB-ne1. Offset column centerline from neB by 2" (away from neB.1).
155	Structural	Subject:	Column Base Plate Elevation
		References:	S207
		Description:	Change base plate elevation of all Special Columns with type BP-G and BP-K base plates from 20'-7" to 20'-8".
156	Structural	Subject:	Column Base Plate Designation
		References:	S207
		Description:	Change Column se1-seB and se1-seC base plates from BP X to BP G.
157	Structural	Subject:	Delete Column
		References:	S207
		Description:	Delete SC5 at neB-ne1.
158	Structural	Subject:	Special Column Connection Detail
		References:	S208
		Description:	Change connection detail for Special Column Type 4 from Detail B on S207 to Detail A on S207.
159	Structural	Subject:	Special Column Base Detail
		References:	S208
		Description:	Add note to base of Special Column Type 4 as follows: "3/4" x 1'-2" x 6'-0" plate with 16, 1" diameter A325 bolts"
160	Structural	Subject:	Custom Fabricated Beam
		References:	S208, SKS-17
		Description:	Revise detail of Special Column Type 6 as shown in SKS
161	Structural	Subject:	Mastic Coat Clarification

		References:	S209
		Description:	Mastic coat to be provided by 033000.
162	Structural	Subject:	Special Column Dimension
		References:	S209, SKS-18
		Description:	Revise dimensions of Special Column Type 7 as shown in SKS.
163	Structural	Subject:	Special Column Connection Details
		References:	S209, SKS-19
		Description:	Revise connection details of Special Column Type 10 as shown in SKS.
164	Structural	Subject:	Anchor Bolt Details
		References:	S210
		Description:	Replace Note 2 with the following: "Provide 1-1/4" diam. x 1-8" embedment F1554-105 anchor rods w/ tack welded double nut and 4"x4"x3/4" plate washer in between at ends at brace columns and v-brace connections. (Noted on Column Schedule as base plate type BP-"X", BP-F, BP-G, BP-K, BP-L, BP-M). Provide 3"x3"x3/8" plate washers under nuts on top of column base plates and v-brace connection plates."
165	Structural	Subject:	New Base Plate
		References:	S210, SKS-20
		Description:	Add BP C-BR-SP as shown in SKS
166	Structural	Subject:	Revisions to Section 1
		References:	S300
		Description:	Add the following notes to the section: - First floor construction to be composite slab on non-vented metal deck between A and B and composite slab on vented metal deck for remainder of floor. - The remaining portion of existing slab (from A to B) to be removed prior to new construction. - See Section 1 on S502 for facing wall details
167	Structural	Subject:	Revisions to Section 2
		References:	S300, SKS-21
		Description:	- Add callout for new Section 17 on S602 at the base of folding along C.8 at the first floor. See SKS- - Add callout for Section 9 on S501 at the West side of the Mechanical room depression. - Add callout for Section 12 (SIM) on S501 at the East side of the Mechanical room depression. - Show underground storage tank on concrete mat to the West of C.8 and add callout for Section 14 on S501. - Replace "Nanawall" with "Folding Glass Door"
168	Structural	Subject:	Revised Location of Exhaust Openings
		References:	S301, SKS-22
		Description:	Revise the locations of the four openings through the existing wall and facing wall along A as shown in SKS-

169	Structural	Subject:	Custom Fabricated Beam at King Street Roof
		References:	S302 – King Street Corridor
		Description:	Delete “tapered” from the note to the wide flange beam shown in section on KS3.
170	Structural	Subject:	Custom Fabricated Beam at King Street Roof
		References:	S302 – King Street Corridor (Cont.)
		Description:	Add the following note to the wide flange beam shown in section on ne1: “Custom fabricated E.V.S.S. wide flange beam with intumescent paint”
171	Structural	Subject:	Added Relieving Angles and Hangers
		References:	S400 – US – North Elevation
		Description:	<ul style="list-style-type: none"> <li>- Add continuous galvanized L6x4x1/2 relieving angle at head of windows below the Second Floor (similar to the Third Floor). Provide C5x9 hangers @ 4'-0" o.c. to support relieving angle.</li> <li>- Add continuous galvanized L6x4x1/2 relieving angle at head of windows below the Roof (similar to the that which is provided between B.1 and A.2). Provide C5x9 hangers to support relieving angle.</li> <li>- Change Section 1 on S601 reference mark at Second Floor to Section 3 on S601</li> <li>- Add Section 4 (SIM) on S703 reference mark at the Roof at new relieving angle</li> <li>- C5x9 from Roof should not be @ 4'-0" o.c. Delete spacing from note.</li> <li>- Add Section 3 on S601 reference mark at Second Floor between B.1 and A.</li> </ul>
172	Structural	Subject:	Added Relieving Angles and Hangers
		References:	S400 – US – West Elevation
		Description:	<ul style="list-style-type: none"> <li>- Add continuous galvanized L6x4x1/2 relieving angle at head of windows below the Second Floor (similar to the Third Floor). Provide C5x9 hangers @ 4'-0" o.c. to support relieving angle.</li> <li>- Add continuous galvanized L6x4x1/2 relieving angle at head of windows below the Roof (similar to that which is provided between 10.3 and 9.1). Provide C5x9 hangers to support relieving angle.</li> <li>- Change Section 2 on S601 reference mark at Second Floor to Section 3 SIM on S601</li> <li>- Change Section 1 on S703 reference mark at the Roof to Section 4 on S703</li> <li>- C5x9 hangers from Roof should not be @ 4'-0" o.c. Delete spacing from note.</li> <li>- Add Section 3 on S601 reference mark at Second Floor between 12 and 10.8.</li> <li>- Add Section 3 on S601 reference mark at Third Floor between 9.1 and 7.</li> <li>- Add Section 12 on S702 reference mark at Roof between 12 and 10.8.</li> </ul>
173	Structural	Subject:	Added Relieving Angles and Hangers

		References:	S401 – US –South Elevation
		Description:	- Add Section 11 on S601 reference mark at Second Floor between B.1 and C.2 - Add Section 11 on S601 reference mark at Third Floor between A and B.1 - Add Section 10 on S703 reference mark at Roof between A and B.1 and B.1 and C.2.
174	Structural	Subject:	Added Relieving Angles and Hangers
		References:	S402 – LS – North Elevation
		Description:	- Add continuous galvanized L6x4x1/2 relieving angle at head of windows below the Second Floor (similar to the Third Floor). Provide C5x9 hangers @ 4'-0" o.c. to support relieving angle. - Add continuous galvanized L6x4x1/2 relieving angle at head of windows below the Roof. Provide C5x9 hangers to support relieving angle. - Change Section 1 on S601 reference marks at Second Floor to Section 3 on S601 (two locations) - Change Section 2 on S703 reference mark at the Roof to Section 4 SIM on S703 - C5x9 hangers from Roof should not be @ 4'-0" o.c. Delete spacing from note. - Add Section 4 SIM on S703 reference mark at Roof between swC and swD.
175	Structural	Subject:	Added Relieving Angles and Hangers
		References:	S402 – LS – West Elevation
		Description:	- Add continuous galvanized L6x4x1/2 relieving angle at head of windows below the Second Floor (similar to the Third Floor). Provide C5x9 hangers @ 4'-0" o.c. to support relieving angle between sw4 and sw3 and WT7x17 hangers @ 4'-0" between sw2 and sw1.. - Add continuous galvanized L6x4x1/2 relieving angle at head of windows below the Roof (similar to that which is provided between sw3 and sw2). Provide C5x9 hangers to support relieving angle. - Change Section 3 on S601 reference mark at Second Floor between sw2 and sw1 to Section 17 on S601. - Change C5x9 hangers to WT7x17 hangers at Second Floor between sw2 and sw1. - C5x9 hangers from Roof should not be @ 4'-0" o.c. Delete spacing from note. - Change Section 1 on S601 reference mark at Second Floor between sw4 and sw3 to Section 3 on S601. - Change Section 1 on S601 reference mark at Second Floor between sw2 and sw1 to Section 17 on S601. - Add Section 4 on S703 reference mark at Roof between sw4 and sw3.
176	Structural	Subject:	Revision to S403
		References:	S403 – LS – South Elevation I and II
		Description:	Delete all dimensions to vertical framing members. Dimensions are to be coordinated with the Architectural Drawings.

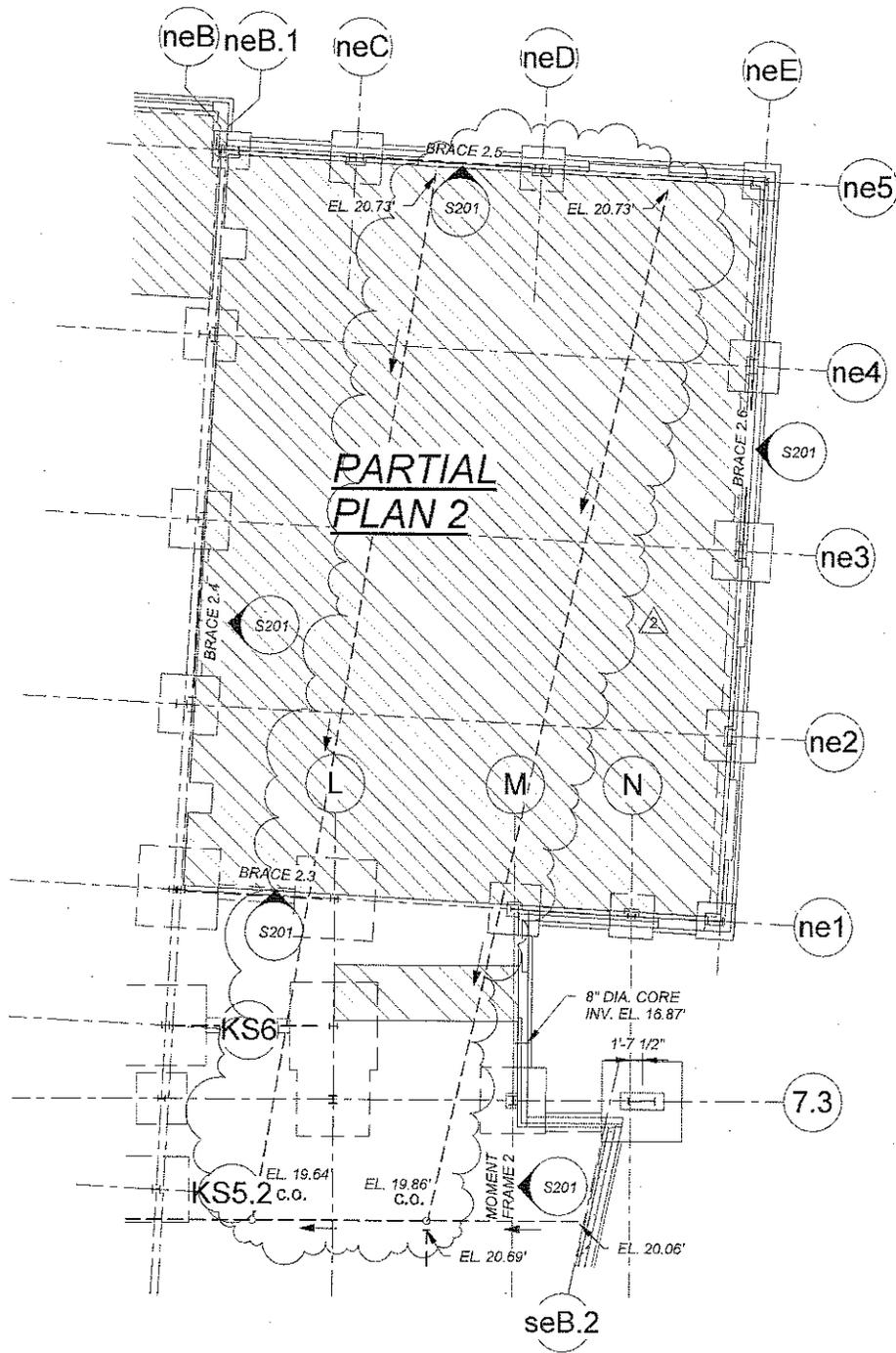
177	Structural	Subject:	Revisions to S403
		References:	S403 – LS – South Elevation I
		Description:	Add Section 12 on S601 reference mark to the Third Floor between swC and swD. Add Section 11 on S601 reference mark to the Third Floor between swD and swE. Add Section 11 on S601 reference mark to the Second Floor between swB and swC. Add Section 10 on S703 reference mark to the Roof between swB and swC.
178	Structural	Subject:	Revisions to S405
		References:	S405
		Description:	Replace all references to Sections 2 and 1 on S601 with Section 3 on S601. Relieving angle to be provided at all levels. Replace all references to Sections 1 and 2 on S703 with Section 4 on S703.
179	Structural	Subject:	New Section – Sump Pit Detail
		References:	S500, SKS-4
		Description:	Add Section 16. See SKS.
180	Structural	Subject:	New Section – North Wall of Mechanical Room 0039
		References:	S501, SKS-2
		Description:	Add Section 17. See SKS.
181	Structural	Subject:	Revisions to Section 9
		References:	S501
		Description:	Footing reinforcing to be #4's @ 12" o.c. each way top and bottom. Footing thickness is 1'-4" Heel dimension to be 2'-0" at F4.5C footing and 1'-6" at F4.0C footing. See plans for footing type.
182	Structural	Subject:	Revision to Sections 9 and 10
		References:	S501
		Description:	Delete perimeter drain from sections. Not applicable.
183	Structural	Subject:	Revision to Section 1 and 2
		References:	S502
		Description:	Provide 12" layer of compacted structural fill below site walls.
184	Structural	Subject:	Revision to Sections 1, 3, 4, 5, 7, and 8
		References:	S502
		Description:	First floor construction to be composite slab on non-vented metal deck above existing structure.
185	Structural	Subject:	Clarification to Sections 1, 4, 5 and 8
		References:	S502
		Description:	Wall footings to be 2'-0" wide and 1'-0" thick, centered below a 12" wall with two #5 continuous bars.
186	Structural	Subject:	Clarification to Sections 1 and 3

		References:	S502
		Description:	Footing of facing wall to be 12" thick.
187	Structural	Subject:	Revision to Section 1
		References:	S502
		Description:	12" wall on East side of ramp to be reinforced as follows: Provide #4's @ 12" o.c. horizontal, each face. Provide #4's @ 12" o.c. vertical on ramp side. Provide #5's @ 12" o.c. vertical on soil side.
188	Structural	Subject:	Revision to Section 4
		References:	S502
		Description:	Wall reinforcing to be #4's @ 12" o.c. horizontal each side and #5's @ 12" o.c. vertical each side. Dowel vertical bars into footing below.
189	Structural	Subject:	Revision to Section 7
		References:	S502
		Description:	Add the following notes: Dowel vertical bars into existing footing. Provide 8" embedment. Field bend #4's @ 12" o.c. where slab meets wall.
190	Structural	Subject:	Revision to Sections 1, 2, and 3
		References:	S503
		Description:	Provide 12" layer of compacted structural fill below site walls.
191	Structural	Subject:	Revision to Section 3
		References:	S503
		Description:	Provide continuous galvanized L4x4x3/8 angles with 3/4" diameter stainless steel expansion bolts @ 2'-0" o.c. to support grating (by misc. metals) at areaway.
192	Structural	Subject:	Revision to Sections 1 and 3
		References:	S504, SKS-23
		Description:	Provide thickened slab with two #5 continuous bars below 8" CMU wall.
193	Structural	Subject:	Clarification to Sections 4 and 6
		References:	S504, S100
		Description:	Shown underslab drainage system below slab on grade and existing perimeter drain. See plan for additional information.
194	Structural	Subject:	Revision to Section 5
		References:	S504
		Description:	Provide 12" layer of compacted structural fill below site walls.
195	Structural	Subject:	Revision to Section 4
		References:	S504
		Description:	First floor construction to be composite slab on non-vented metal deck above existing structure.
196	Structural	Subject:	Revision to Sections 1, 2, and 3

		References:	S505
		Description:	Provide 12" layer of compacted structural fill below site walls.
197	Structural	Subject:	Revisions to Section 1
		References:	S505, SKS-24
		Description:	Revise Section as shown in SKS.
198	Structural	Subject:	Revision to Sections 2, 6, 7, 8 and 9
		References:	S600
		Description:	First floor construction to be composite slab on non-vented metal deck above existing structure.
199	Structural	Subject:	Revision to Section 4
		References:	S600, SKS-5
		Description:	Expand section to show opening. Refer to SKS.
200	Structural	Subject:	Revisions to Section 8
		References:	S600, SKS-25
		Description:	Revise section as shown in SKS.
201	Structural	Subject:	Clarification to Sections 7
		References:	S600
		Description:	Show waterproofing and soil at planter on exterior side of wall (similar to Section 8)
202	Structural	Subject:	Revision to Sections 12 and 15
		References:	S600
		Description:	Add #5's @ 12" o.c. at mid depth in the East-West direction and #5's @ 12" o.c. in the North-South direction to the sloping 5" concrete slab on polystyrene voids.
203	Structural	Subject:	Revision to Section 15
		References:	S600
		Description:	Planter wall reinforcing to be #5's @ 12" o.c. vertical each side and #4's @ 12" o.c. horizontal each side. Dowel vertical bars into concrete slab on polystyrene voids.
204	Structural	Subject:	Revision to Section 10
		References:	S601
		Description:	Change pour stop at edge of slab to 3/8" continuous bent plate with #4 weldable rebar @ 12" o.c.
205	Structural	Subject:	New Section – Detail at Relieving Angle
		References:	S601, SKS-26
		Description:	Add Section 17. See SKS
206	Structural	Subject:	Revisions to Section 11
		References:	S601, SKS-30, S70
		Description:	Revise Section 11 per SKS. Similar revisions apply to Sections 9 and 10 on S703.
207	Structural	Subject:	New Section – Detail at Folding Glass Door Base

		References:	S602, SKS-21
		Description:	Add Section 17. See SKS
208	Structural	Subject:	New Section – Detail at Canopy
		References:	S602, SKS-7
		Description:	Add Section 18. See SKS
209	Structural	Subject:	Revision to Section 14
		References:	S602, SKS-7
		Description:	Revise connection of canopy beam to floor structure as shown in SKS.
210	Structural	Subject:	Revision to Section 15
		References:	S602
		Description:	Delete C12x30. Change HSS8x8x3/8 to HSS8x8x1/2 and revise elevation to 47'-9".
211	Structural	Subject:	Revision to Section 16
		References:	S602
		Description:	Add 3/8" continuous bent plate to edge of canopy roof
212	Structural	Subject:	Revision to Section 1
		References:	S603
		Description:	Depress slab for stage flooring. Coordinate with Architectural Drawings.
213	Structural	Subject:	Revision to Section 2
		References:	S603, SKS-27
		Description:	Revise kinked beam at edge of balcony as shown in SKS.
214	Structural	Subject:	Clarification to Section 10
		References:	S701
		Description:	Light gauge connection with vertical slip to be provided by light gauge, not misc. metals.
215	Structural	Subject:	Revision to Section 14
		References:	S702, SKS-12
		Description:	Revise section as shown in SKS.
216	Structural	Subject:	New Section 16 – Box Girder Connection
		References:	S702, SKS-12
		Description:	Add new section as shown in SKS.
217	Structural	Subject:	Revision to Section 3
		References:	S703, SKS-26
		Description:	Add relieving angle detail to section as shown in SKS.
218	Structural	Subject:	Thermal Isolation at HSS Posts
		References:	S703, S704
		Description:	Provide thermal isolation sheet, washers, and bushings to connection at base of HSS posts show in Section 11 on S703

			and Section 1 and 2 on S704.
219	Structural	Subject:	Revision to Section 4, 5, 7, and 9
		References:	S704
		Description:	Light gauge studs at roof parapet to be connected to roof deck by a rigid connection, provided by the light gauge contractor.
220	Structural	Subject:	Revision to Section 8
		References:	S704
		Description:	Replace "tapered W beam" with "custom W beam"
221	Structural	Subject:	Revision to Section 2
		References:	S705
		Description:	Show 3-1/2" concrete slab on roof deck below roof top units. Provide #5 continuous bars in each flute and #4 transverse bars @ 24" o.c. Provide continuous pour stop 6" from centerline of beam.
222	Structural	Subject:	New Section 6a – Custom Beam Hanger Detail at Elevator Shaft
		References:	S705, SKS-28
		Description:	Add Section 6a. See SKS.
			END OF STRUCTURAL ADDENDUM

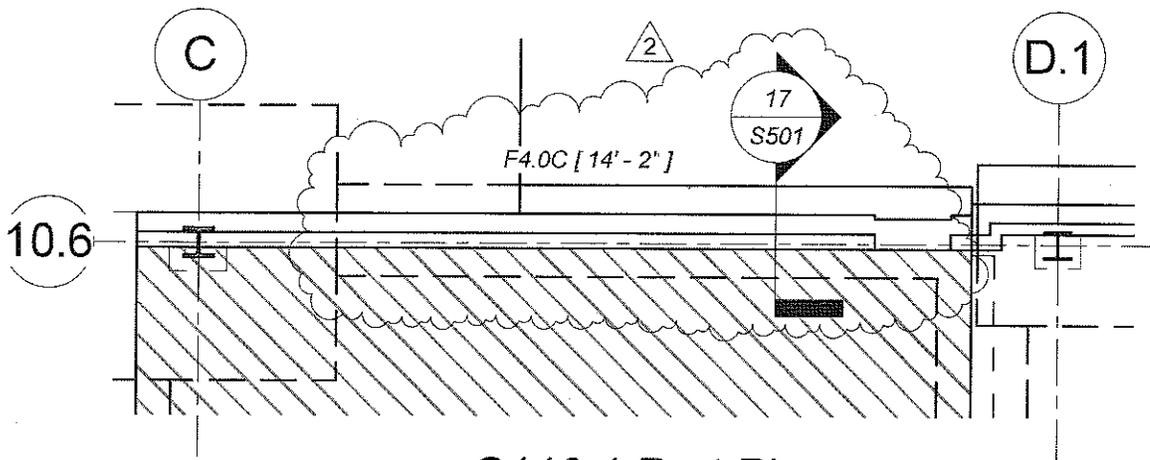


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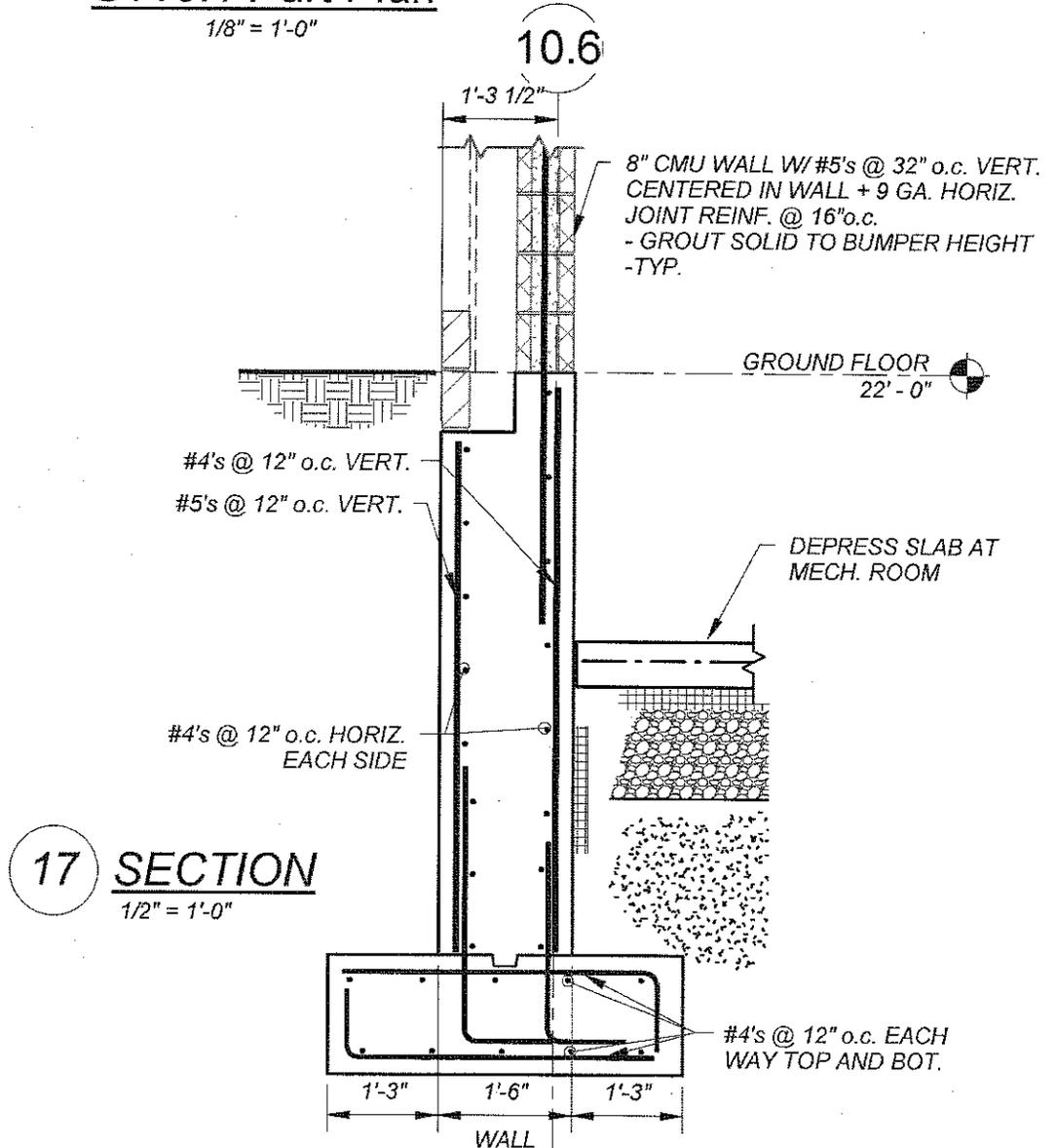
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 DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
 SCALE: 1/16" = 1'-0"  
 SHEET REFERENCE:  
 DWG. NO.: **SKS-1**



**S110.1 Part Plan**

1/8" = 1'-0"



**17 SECTION**

1/2" = 1'-0"

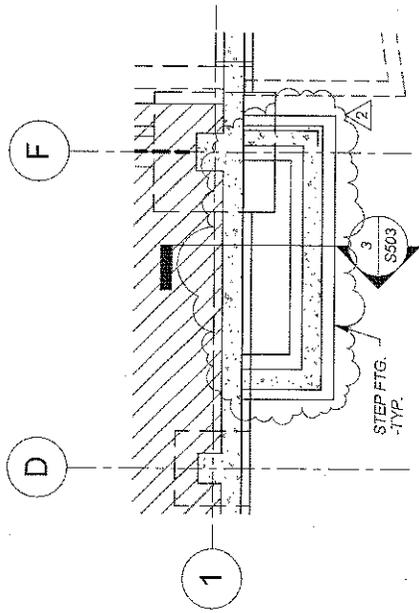
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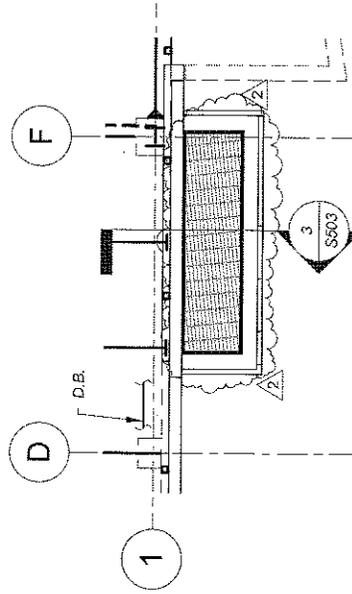
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DATE: 12/10/2013 BID ADDENDUM 2

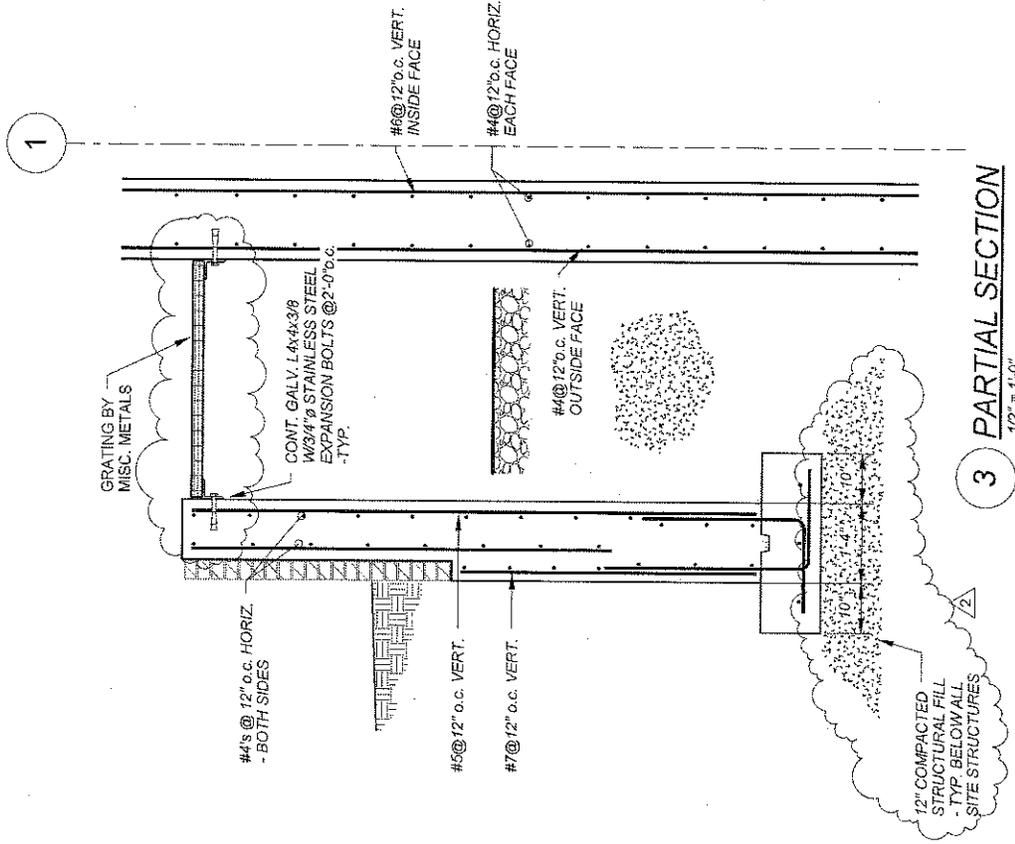
PROJECT NO. 47931.00  
 SCALE: As indicated  
 SHEET REFERENCE:  
 DWG. NO.: **SKS-2**



**S110.4 Part Plan**  
1/8" = 1'-0"



**S111.4 Part Plan**  
1/8" = 1'-0"

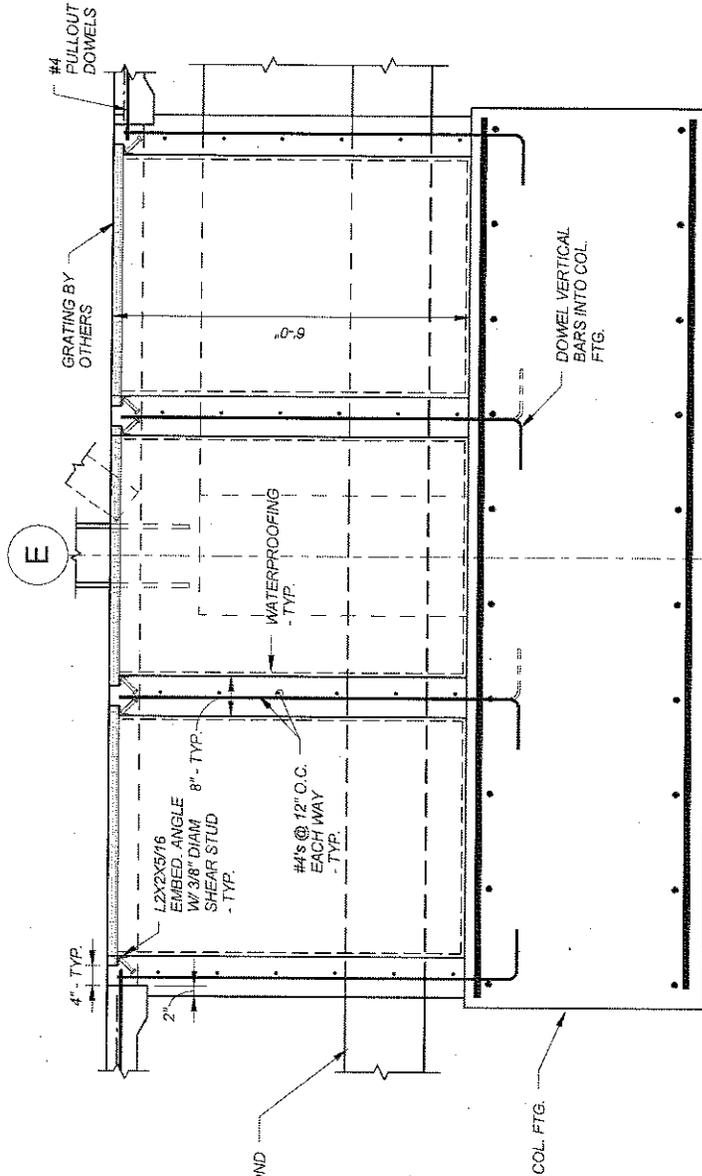
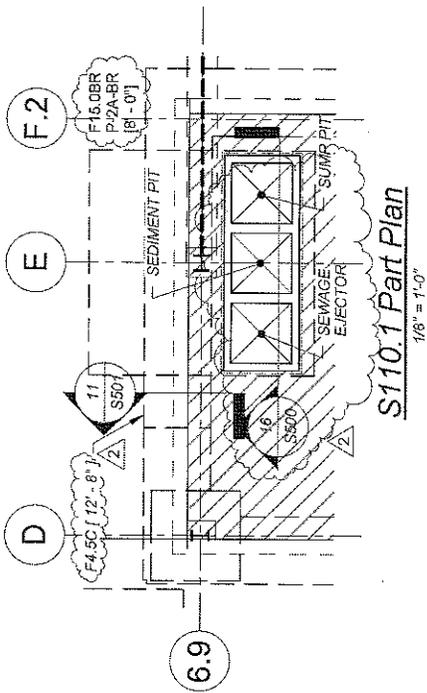


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**PROJECT NO.:** 47831.00  
**SCALE:** As indicated  
**SHEET REFERENCE:**  
**DWG. NO.:** **SKS-3**

**DRAWING TITLE:** Revisions to Magee Street Awnaway (Section 3 on S503)  
**DATE:** 12/10/2013 BID ADDENDUM 2

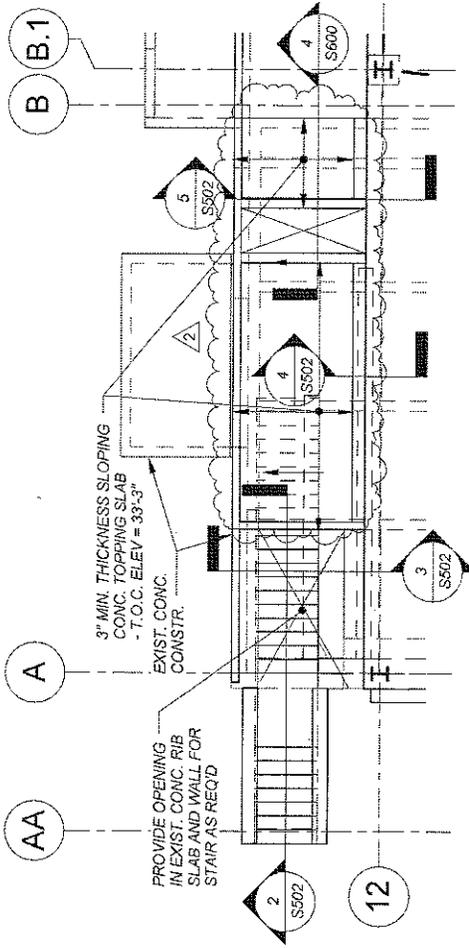


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T: 617-446-9600

**PROJECT: Dr. Martin Luther King, Jr. School Construction Project**

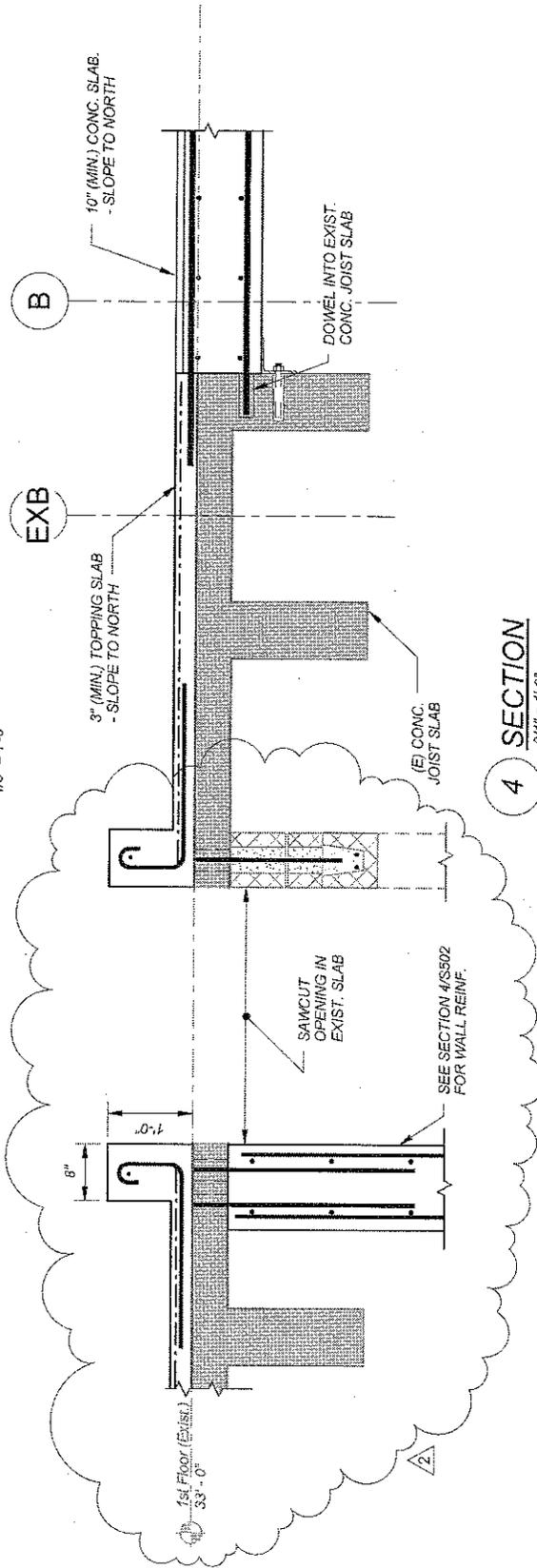
PROJECT NO. 47831.00  
SCALE: As indicated  
SHEET  
REFERENCE:  
DWG. NO.: **SKS-4**

DRAWING TITLE: New Section 16 on S600 - Sump Pit Construction  
DATE: 12/10/2013 BID ADDENDUM 2



S111.1 Part Plan

1/8" = 1'-0"



4 SECTION

3/4" = 1'-0"

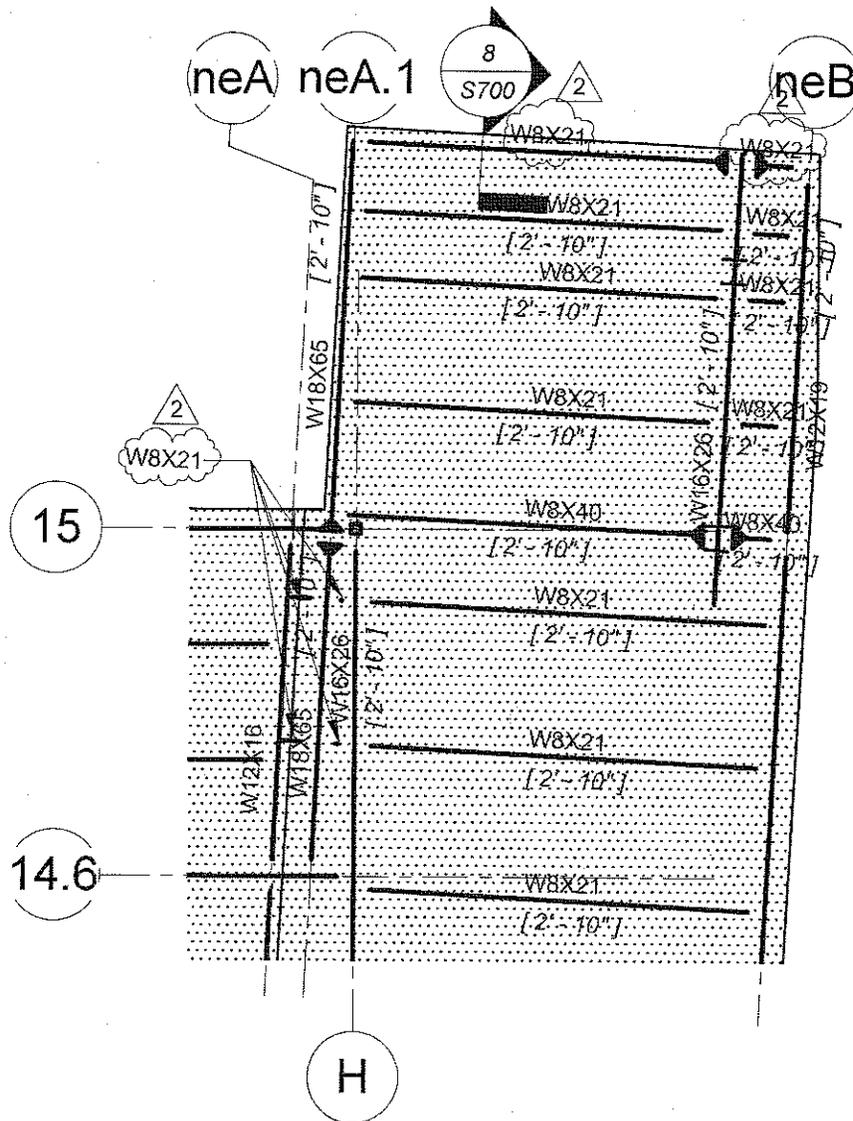
Perkins Eastman  
50 FRANKLIN STREET  
SUITE 200  
FOSTON, MA 02110  
T: 617.446.9600

PROJECT: Dr. Martin Luther King, Jr. School  
Construction Project

PROJECT NO. 47891.00  
SCALE: As indicated  
SHEET REFERENCE:

DRAWING TITLE: Clarification of Slab Extents and Revisions to Section 4 on S600  
DATE: 12/16/2013 BID ADDENDUM 2

DWG. NO.: SKS-5



**S111.2 Part Plan**

1/8" = 1'-0"

**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School**

PROJECT NO. 47931.00

**Construction Project**

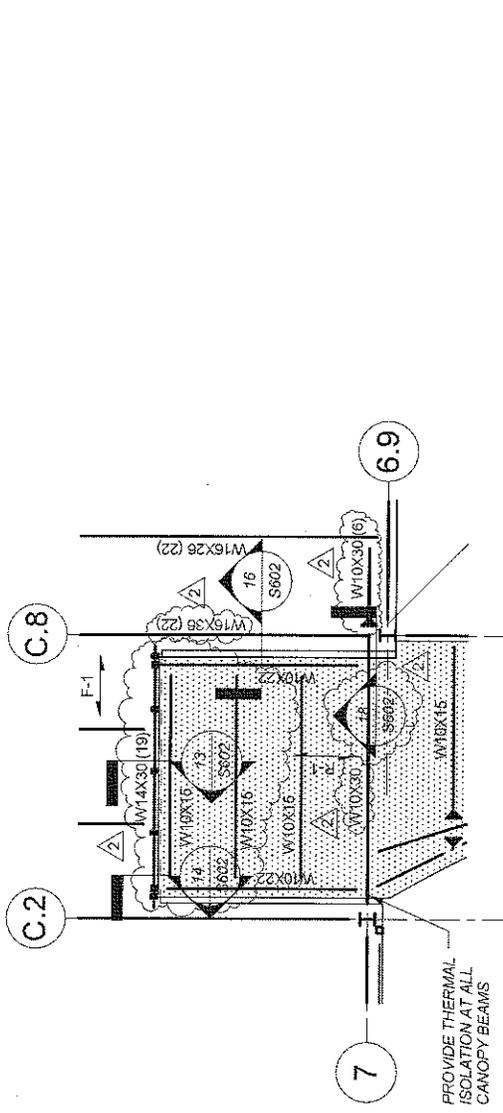
SCALE: 1/8" = 1'-0"

DRAWING  
 TITLE: Clarification of Beam Sizes

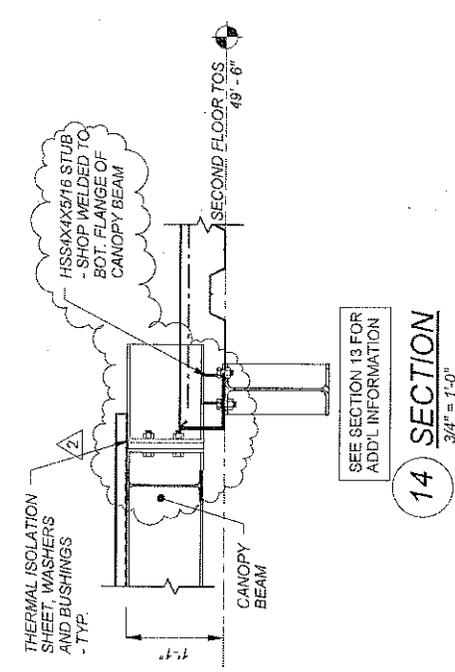
SHEET  
 REFERENCE:

DATE: 12/10/2013 BID ADDENDUM 2

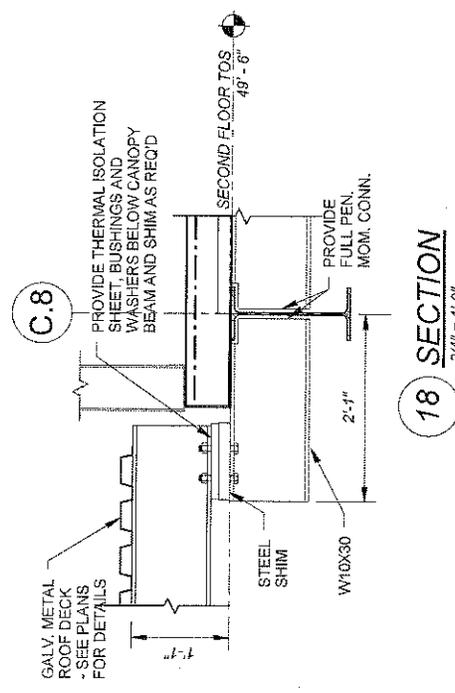
DWG. NO.: **SKS-6**



**S112.1 Part Plan**  
1/8" = 1'-0"



**14 SECTION**  
3/4" = 1'-0"

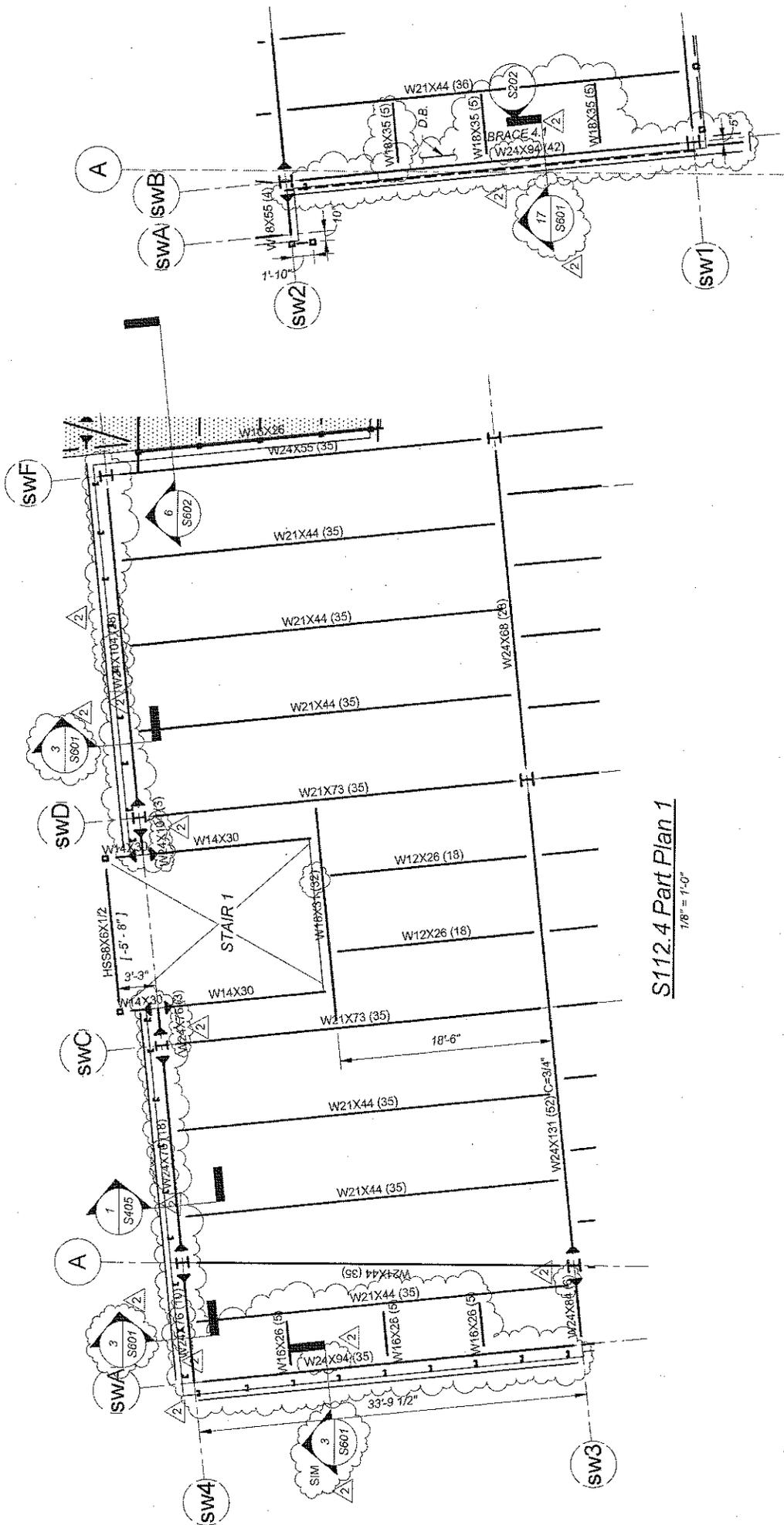


**18 SECTION**  
3/4" = 1'-0"

<b>Perkins Eastman</b> 50 FRANKLIN STREET SUITE 203 POSTON, MA 02110 T: 617-466-6600	<b>PROJECT:</b> Dr. Martin Luther King, Jr. School <b>Construction Project</b>	<b>PROJECT NO.:</b> 47831.00 <b>SCALE:</b> As Indicated <b>SHEET:</b> <b>REFERENCE:</b>
	<b>DRAWING TITLE:</b> Revisions to Canopy Framing and New Section 18 on S802 <b>DATE:</b> 12/10/2013 BID ADDENDUM 2	<b>DWG. NO.:</b> <b>SKS-7</b>







**S112.4 Part Plan 1**  
1/8" = 1'-0"

**S112.4 Part Plan 2**  
1/8" = 1'-0"

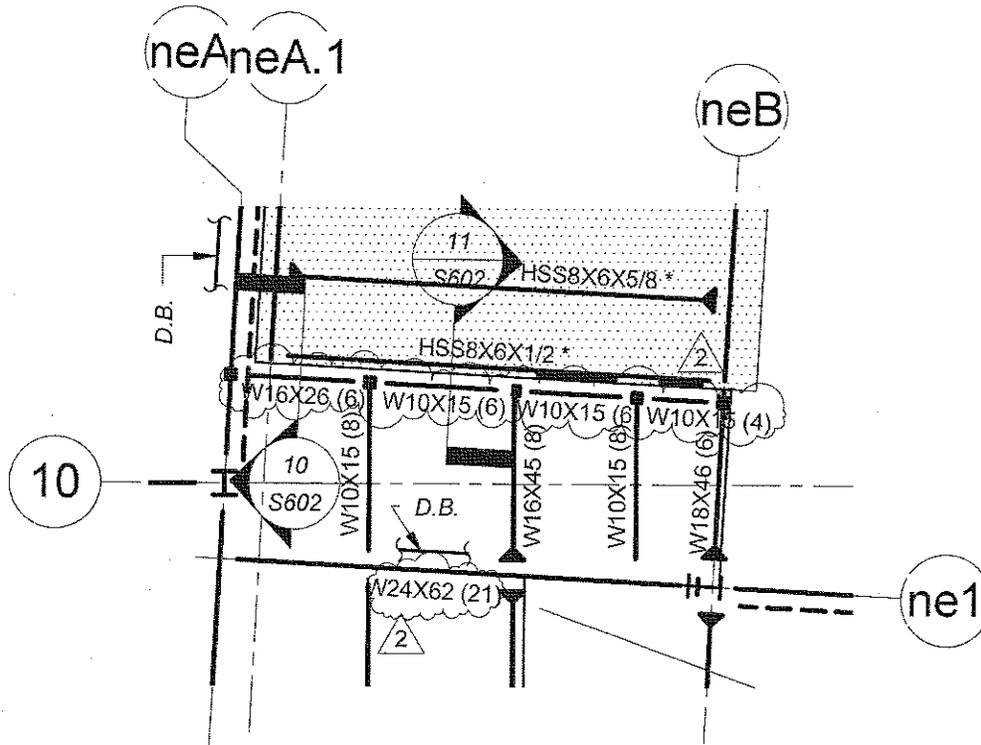
**Perkins Eastman**  
50 FRANKLIN STREET  
SUITE 200  
CAMBRIDGE, MA 02110  
T: 617.449.8000

PROJECT: **Dr. Martin Luther King, Jr. School Construction Project**

PROJECT NO. 47831.00  
SCALE: 1/8" = 1'-0"  
SHEET  
REFERENCE:

DRAWING TITLE: **Address Relieving Angles at Lower School - 2nd Floor**  
DATE: 12/10/2013 BID ADDENDUM 2

DWG. NO.: **SKS-10**



**S113.2 Part Plan**

1/8" = 1'-0"

**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School**

PROJECT NO. 47931.00

**Construction Project**

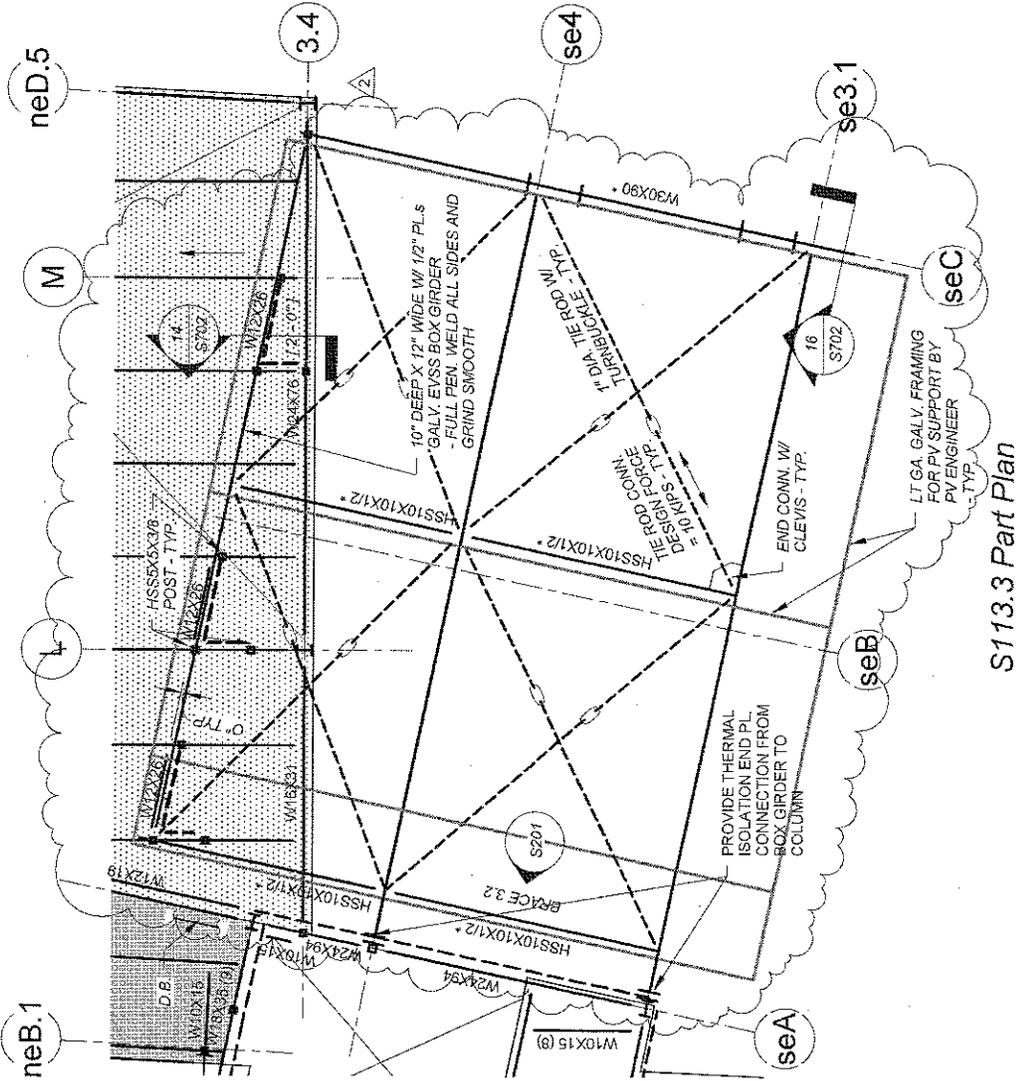
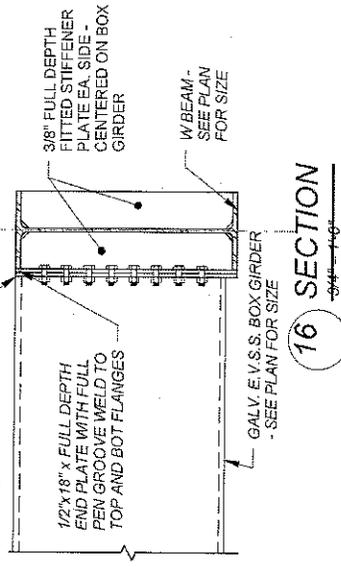
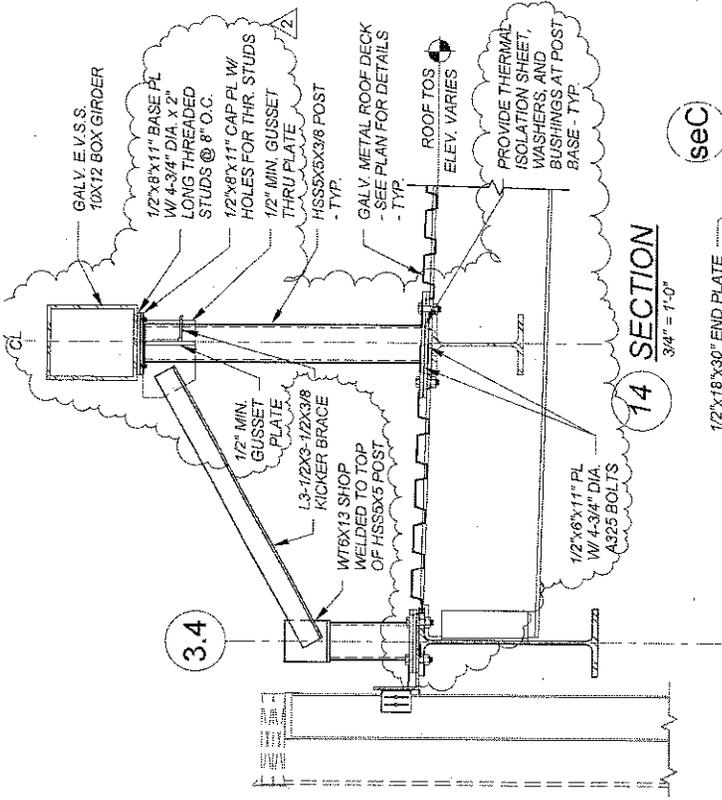
SCALE: 1/8" = 1'-0"

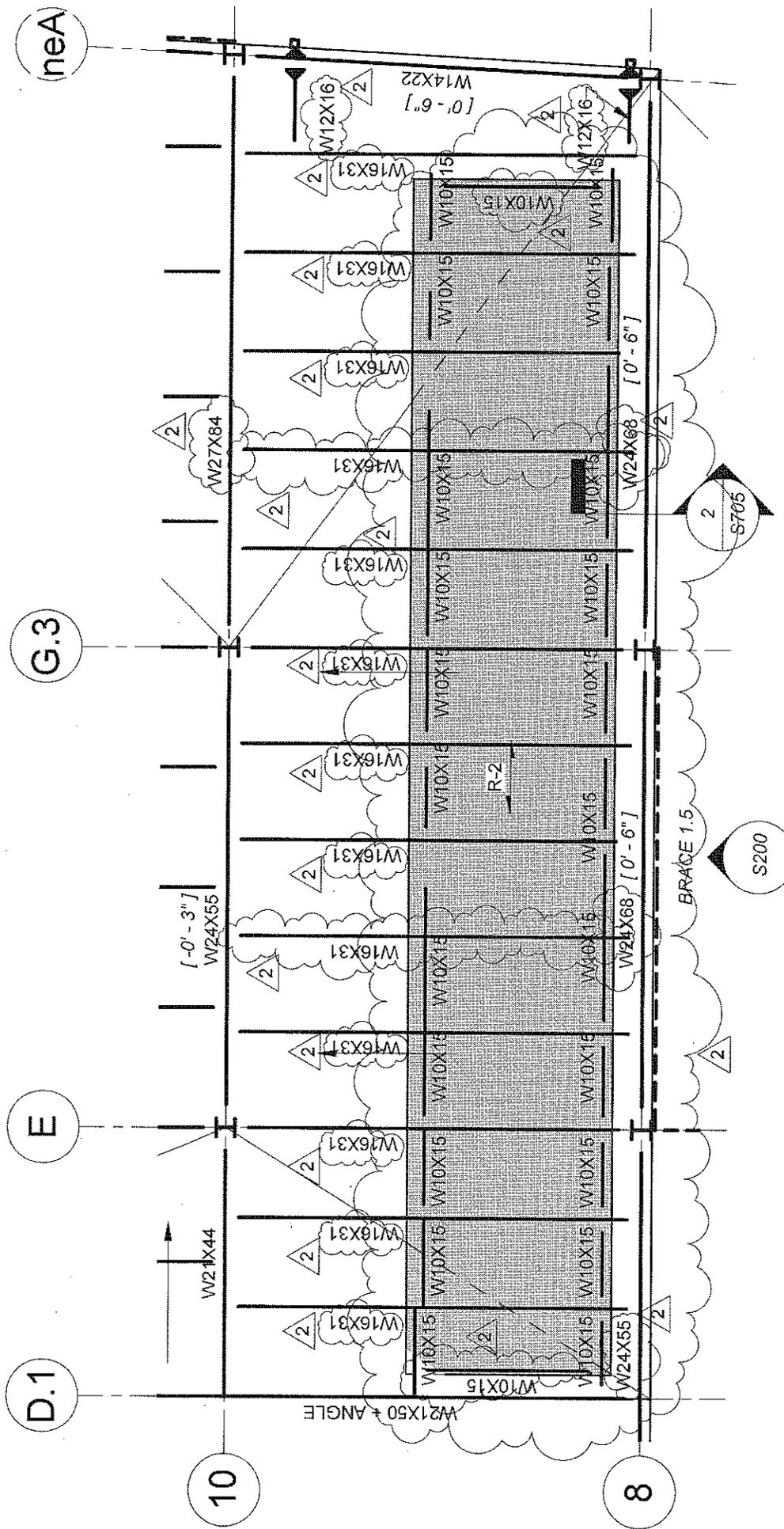
DRAWING TITLE: Revisions to 3rd Floor Framing Near Stair 3

SHEET REFERENCE:

DATE: 12/10/2013 BID ADDENDUM 2

DWG. NO.: **SKS-11**





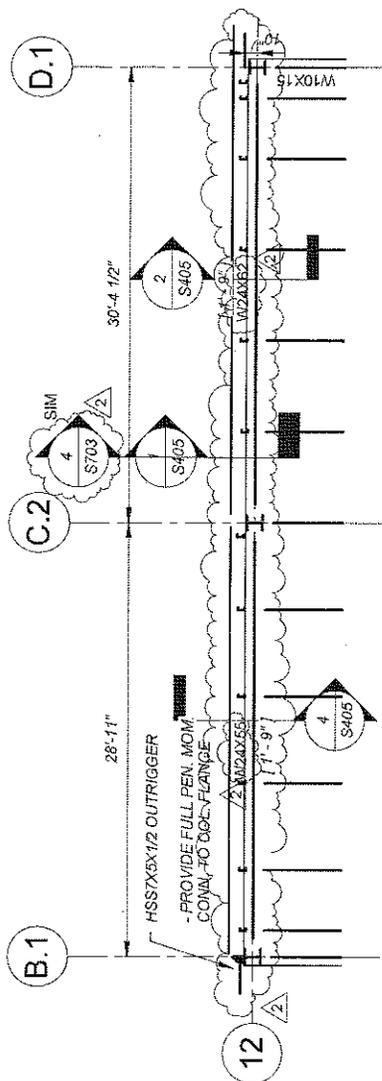
**SKS - Conc. Slab at RTUs**  
 1/8" = 1'-0"

**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

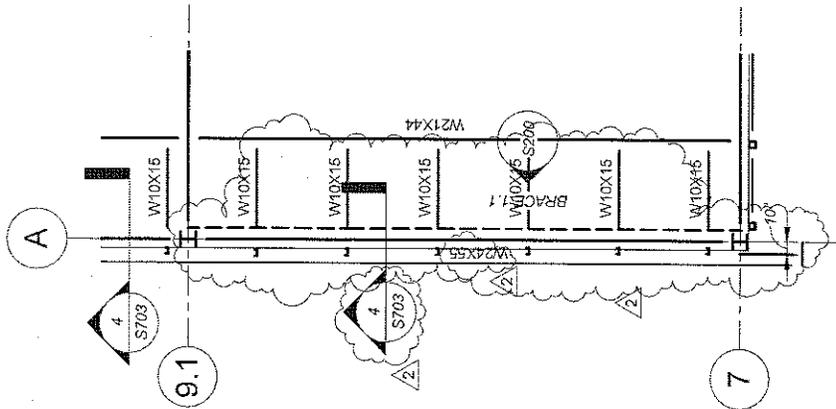
PROJECT: **Dr. Martin Luther King, Jr. School Construction Project**

PROJECT NO.: 47931.00  
 SCALE: 1/8" = 1'-0"  
 SHEET  
 REFERENCE:  
 DWG. NO.: **SKS-13**

DRAWING TITLE: Revisions to Concrete Slab on Deck  
 DATE: 12/10/2013 BID ADDENDUM 2



**S114.1 Part Plan**  
1/8" = 1'-0"



**Perkins Eastman**  
50 FRANKLIN STREET  
SUITE 203  
ROSTON, MA 02110  
T: 617-449-8600

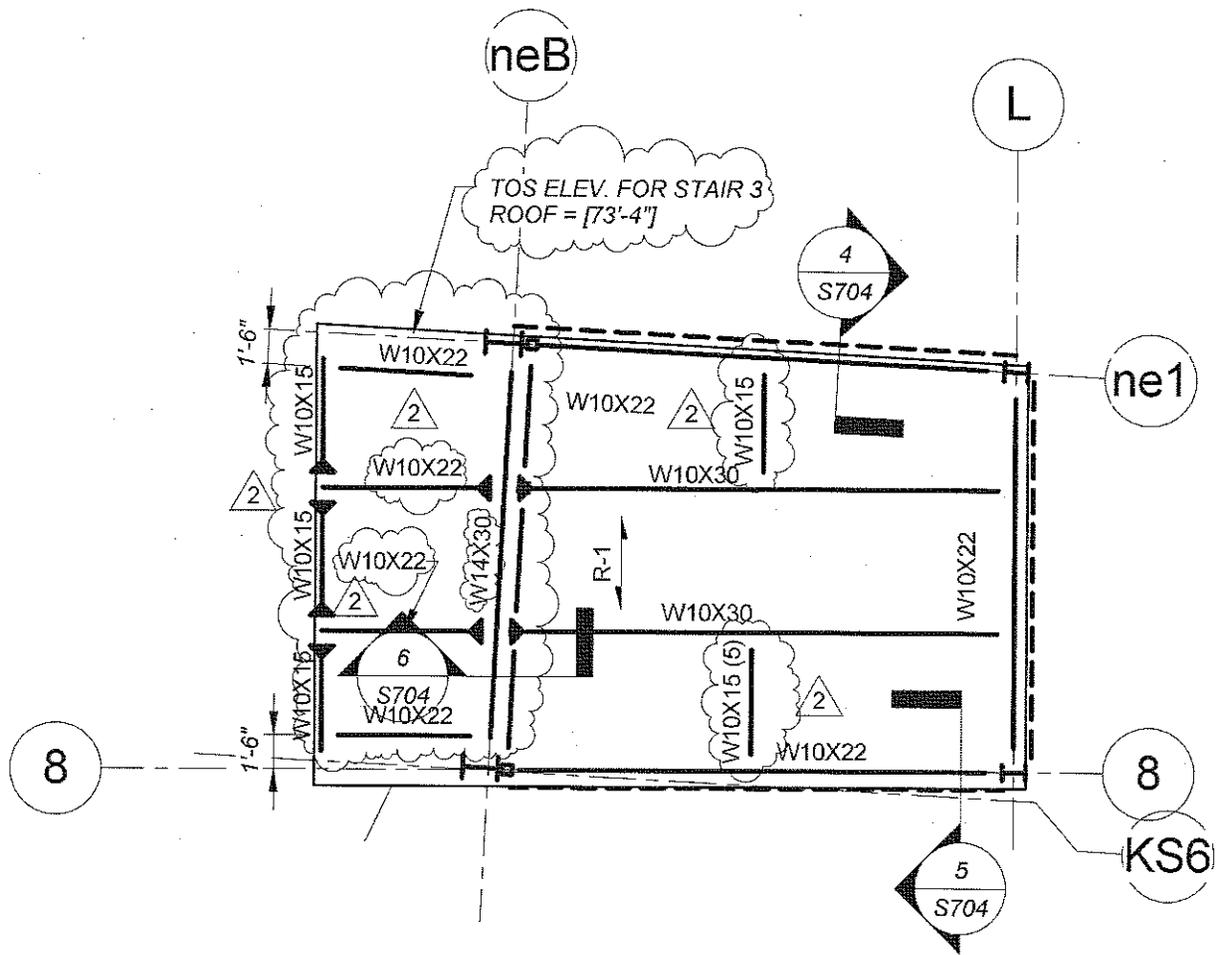
**PROJECT:** Dr. Martin Luther King, Jr. School  
**Construction Project**

**PROJECT NO.:** 47831.00  
**SCALE:** 1/8" = 1'-0"

**DRAWING TITLE:** Added Relieving Angles at Upper School Roof  
**DATE:** 12/10/2013 BID ADDENDUM 2

**SHEET REFERENCE:**

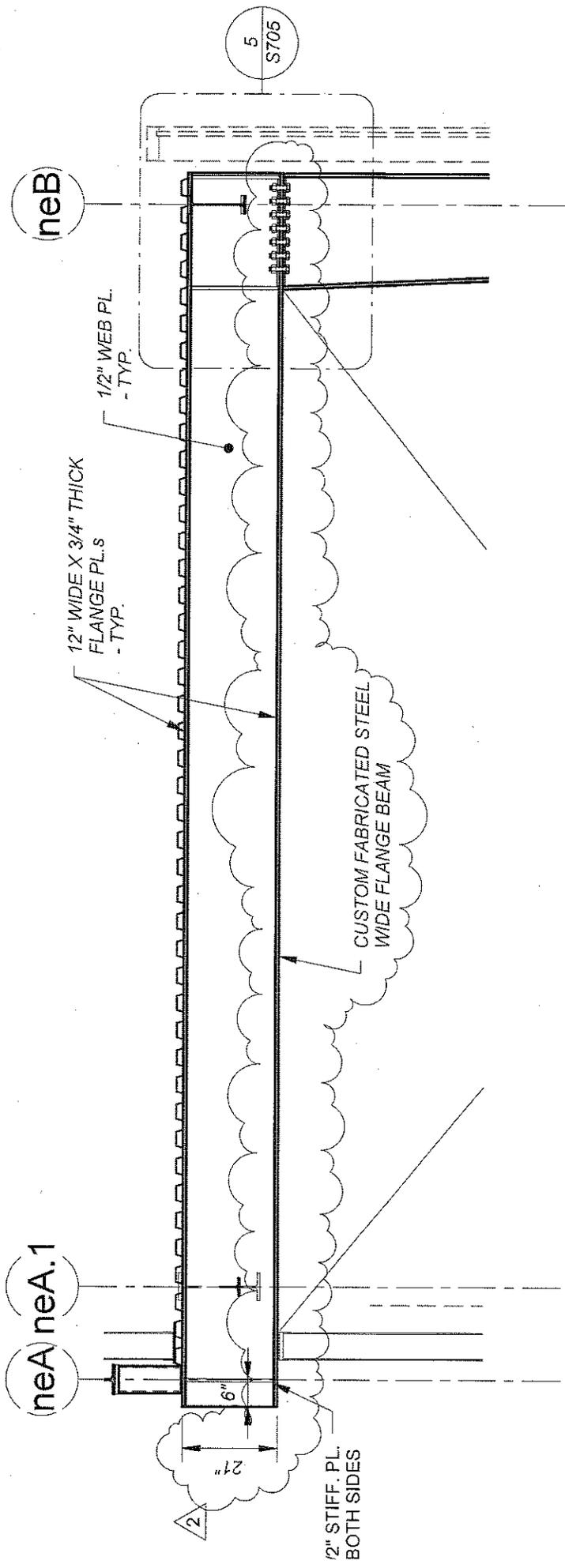
**DWG. NO.:** **SKS-14**



**S114.1 Part Plan**  
 1/8" = 1'-0"

<b>Perkins Eastman</b> 50 FRANKLIN STREET SUITE 203 BOSTON, MA 02110 T. 617.449.4000	PROJECT: <b>Dr. Martin Luther King, Jr. School</b>	PROJECT NO. 47931.00
	DRAWING TITLE: <b>Construction Project</b>	SCALE: 1/8" = 1'-0"
	DATE: 12/10/2013 BID ADDENDUM 2	SHEET REFERENCE:
		DWG. NO.: <b>SKS-15</b>





Special Column Type 6 - Partial Detail

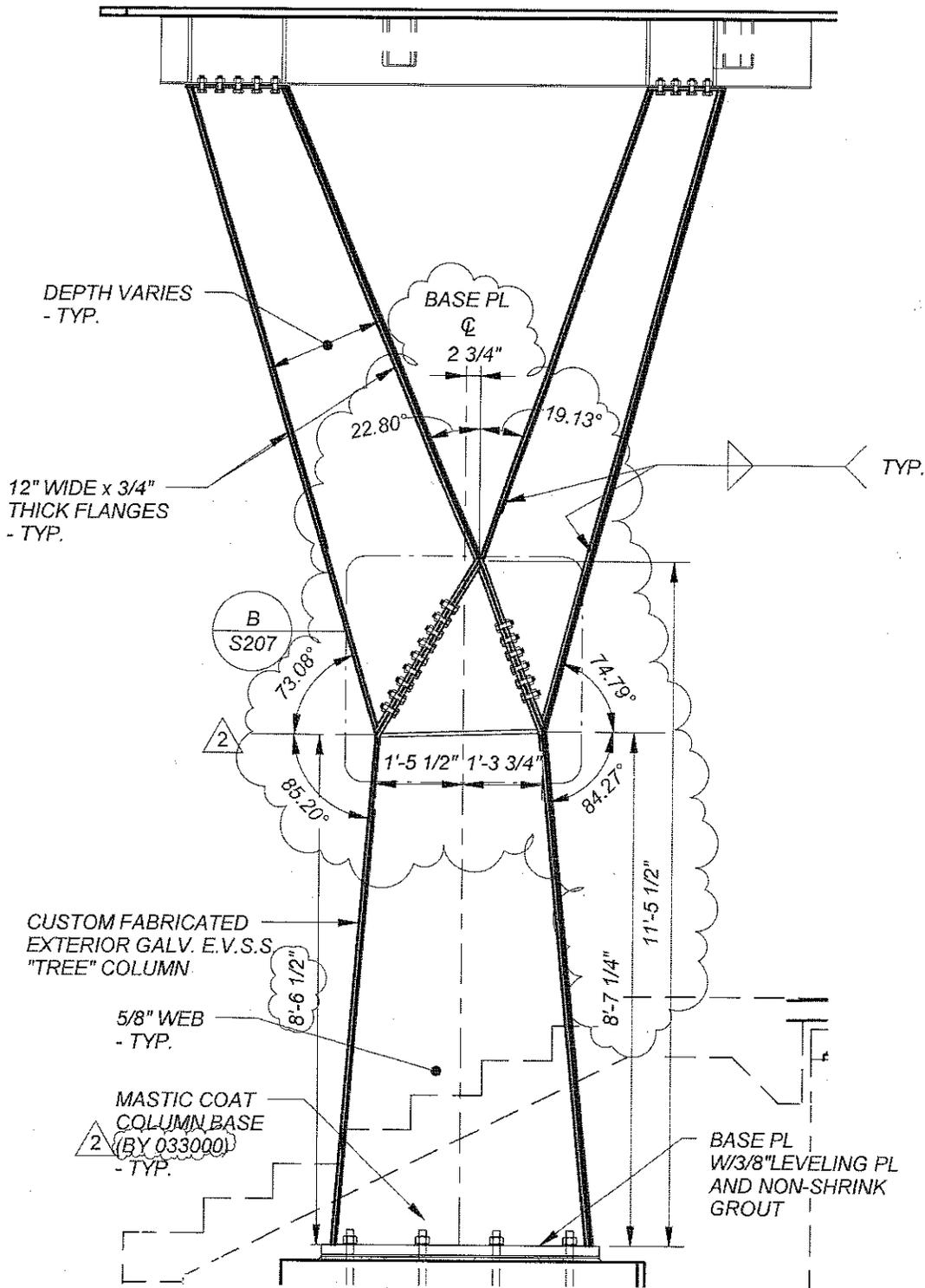
3/8" = 1'-0"

**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School  
 Construction Project**

DRAWING TITLE: Revisions to Special Column Type 6 on S208  
 DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
 SCALE: 3/8" = 1'-0"  
 SHEET  
 REFERENCE:  
 DWG. NO.: **SKS-17**



**Special Column Type 7 - Partial Detail**

3/8" = 1'-0"

**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School Construction Project**

PROJECT NO. 47931.00

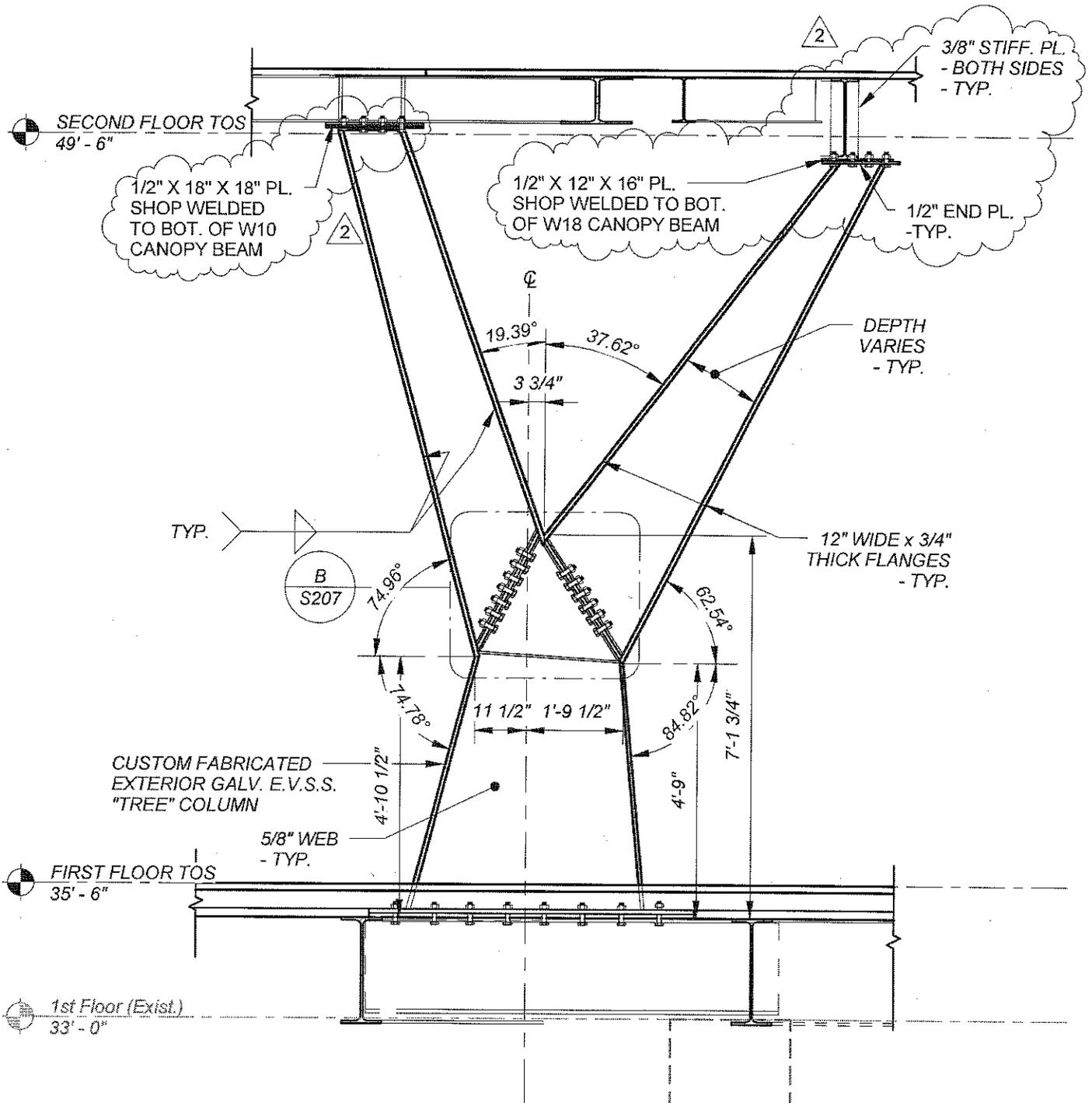
DRAWING TITLE: Revisions to Special Column Type 7 on S209

SCALE: 3/8" = 1'-0"

DATE: 12/10/2013 BID ADDENDUM 2

SHEET REFERENCE:

DWG. NO.: **SKS-18**



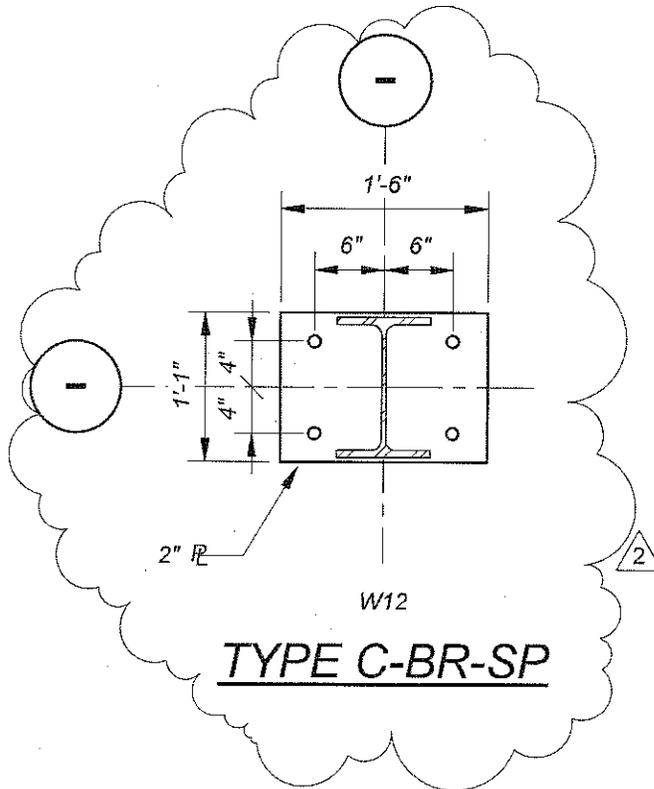
### Special Column Type 10

3/8" = 1'-0"

**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School**  
**Construction Project**  
 DRAWING  
 TITLE: Revisions to Special Column Type 10  
 DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
 SCALE: 3/8" = 1'-0"  
 SHEET  
 REFERENCE:  
 DWG. NO.: **SKS-19**



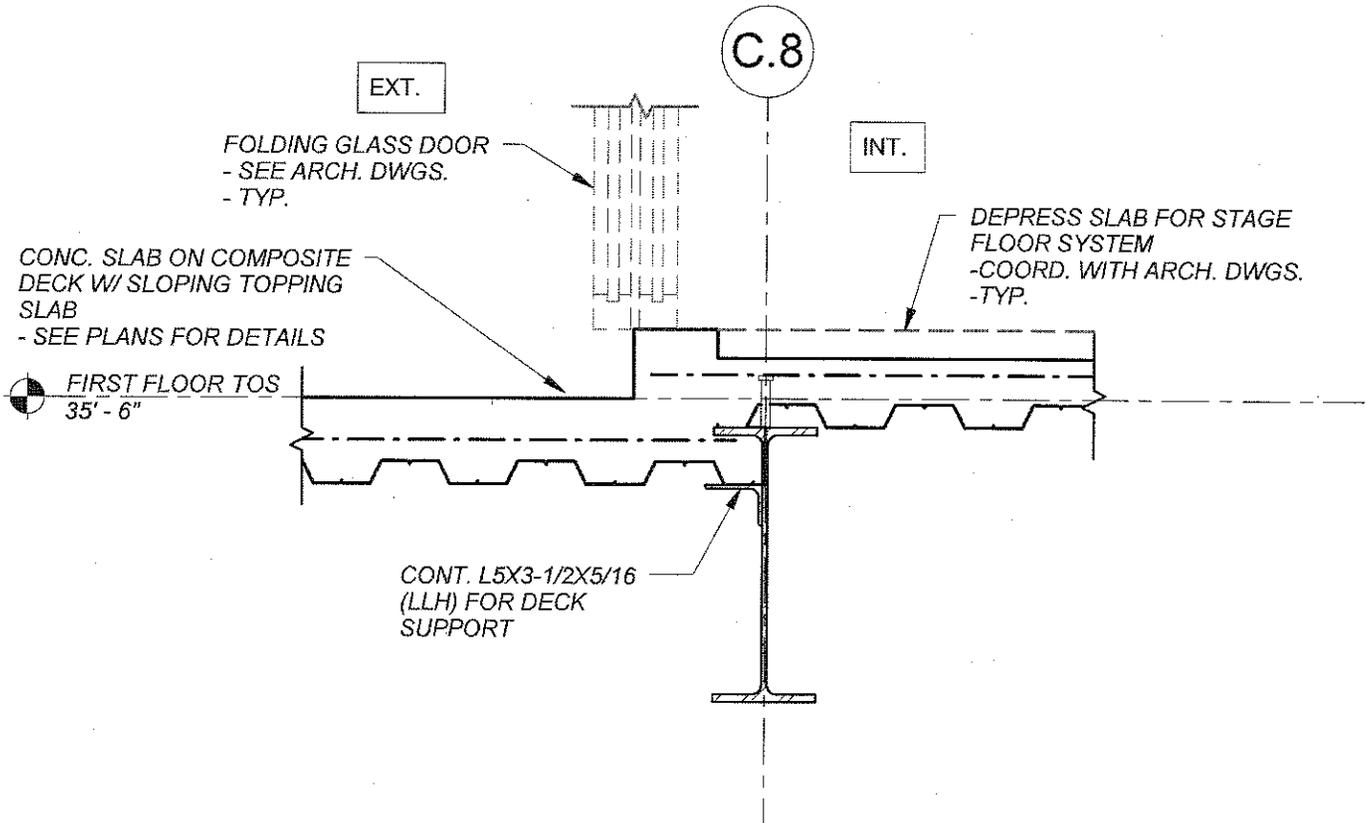
**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School  
 Construction Project**

DRAWING  
 TITLE: New Base Plate Type on S210

DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
 SCALE: 3/4" = 1'-0"  
 SHEET  
 REFERENCE:  
 DWG. NO.: **SKS-20**



**17** SECTION  
3/4" = 1'-0"

**Perkins Eastman**  
50 FRANKLIN STREET  
SUITE 203  
BOSTON, MA 02110  
T. 617.449.4000

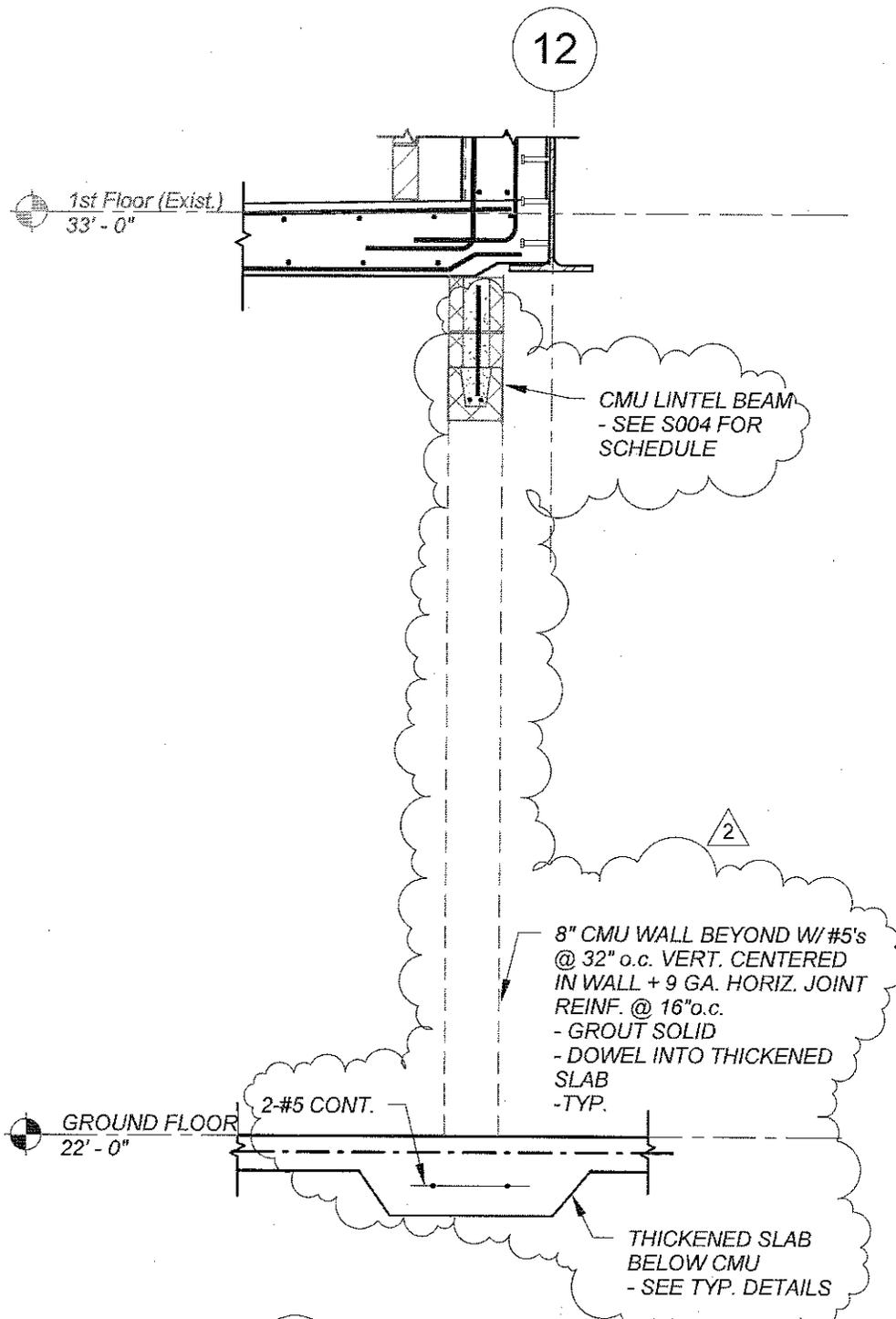
PROJECT: **Dr. Martin Luther King, Jr. School  
Construction Project**

DRAWING  
TITLE: New Section 17 on S602 - Folding Glass Door Base Detail

DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
SCALE: 3/4" = 1'-0"  
SHEET  
REFERENCE:  
DWG. NO.: **SKS-21**





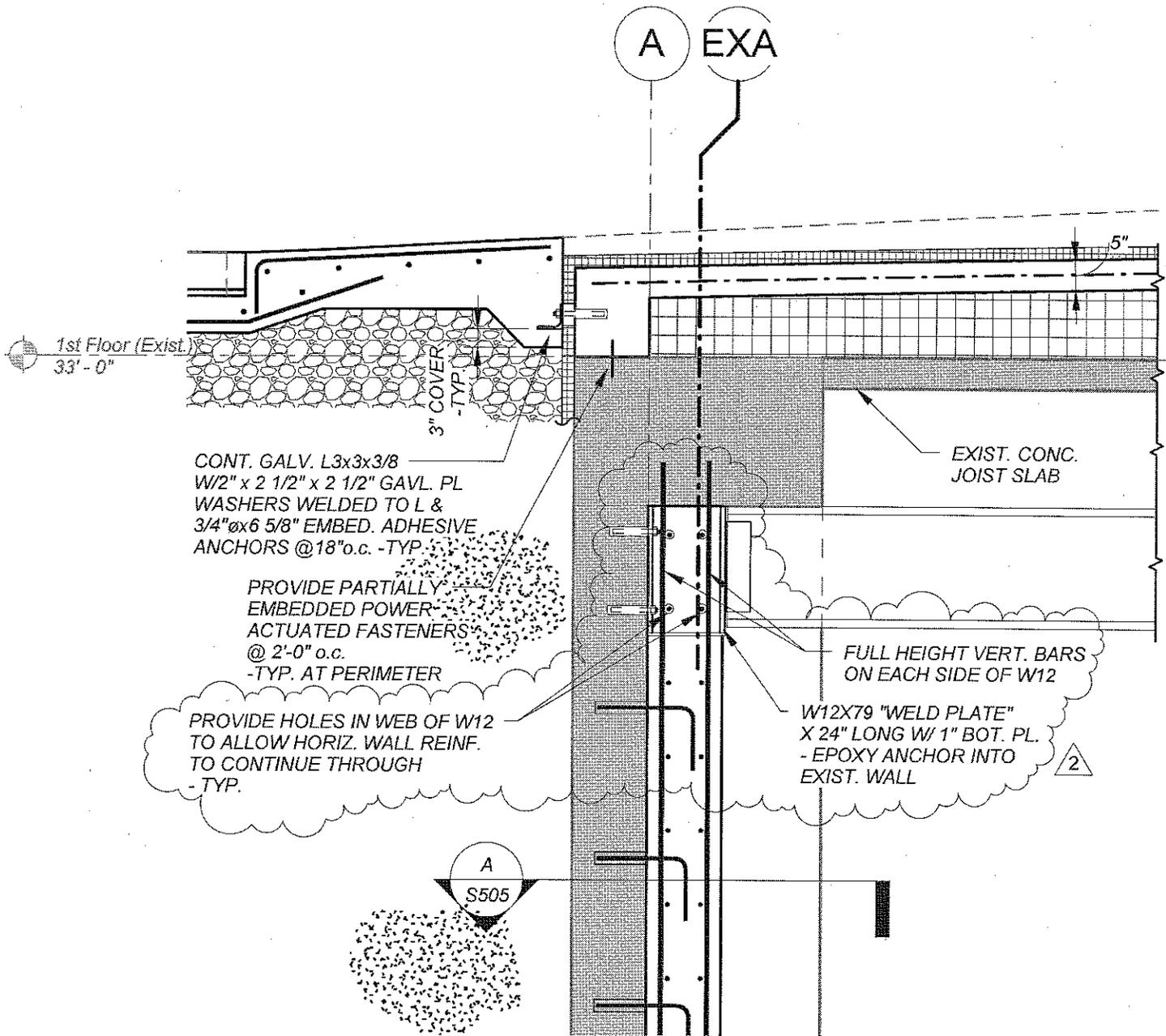
**1 PARTIAL SECTION**  
1/2" = 1'-0"

(SIMILAR REVISIONS  
MADE TO SECTION 3)

**Perkins Eastman**  
50 FRANKLIN STREET  
SUITE 203  
BOSTON, MA 02110  
T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School  
Construction Project**  
DRAWING TITLE: Revisions to Sections 1 and 3 on S504  
DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
SCALE: 1/2" = 1'-0"  
SHEET REFERENCE:  
DWG. NO.: **SKS-23**



1 PARTIAL SECTION  
1/2" = 1'-0"

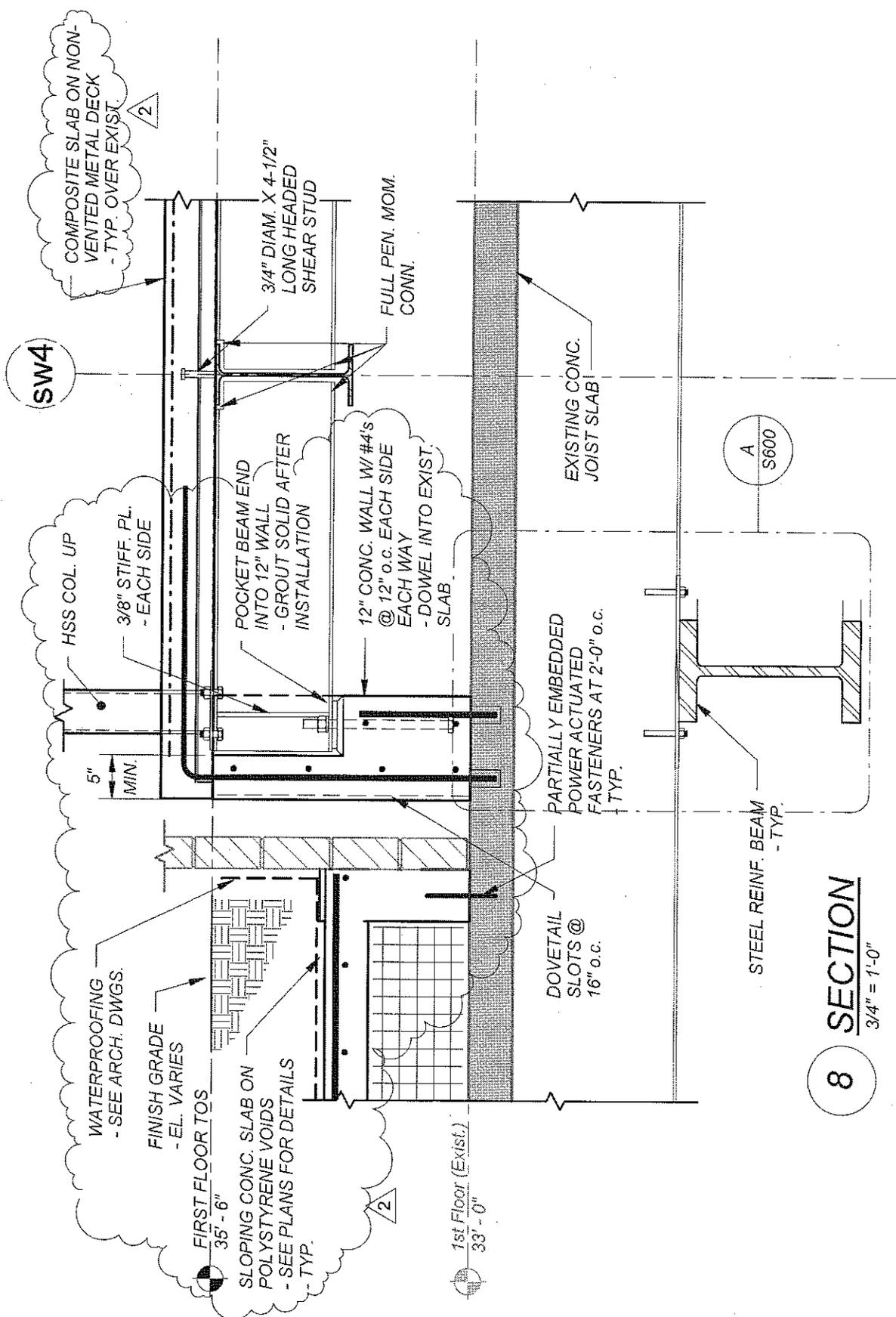
**Perkins Eastman**  
50 FRANKLIN STREET  
SUITE 203  
BOSTON, MA 02110  
T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School  
Construction Project**

DRAWING  
TITLE: Revisions to Section 1 on S505

DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
SCALE: 1/2" = 1'-0"  
SHEET  
REFERENCE:  
DWG. NO.: **SKS-24**



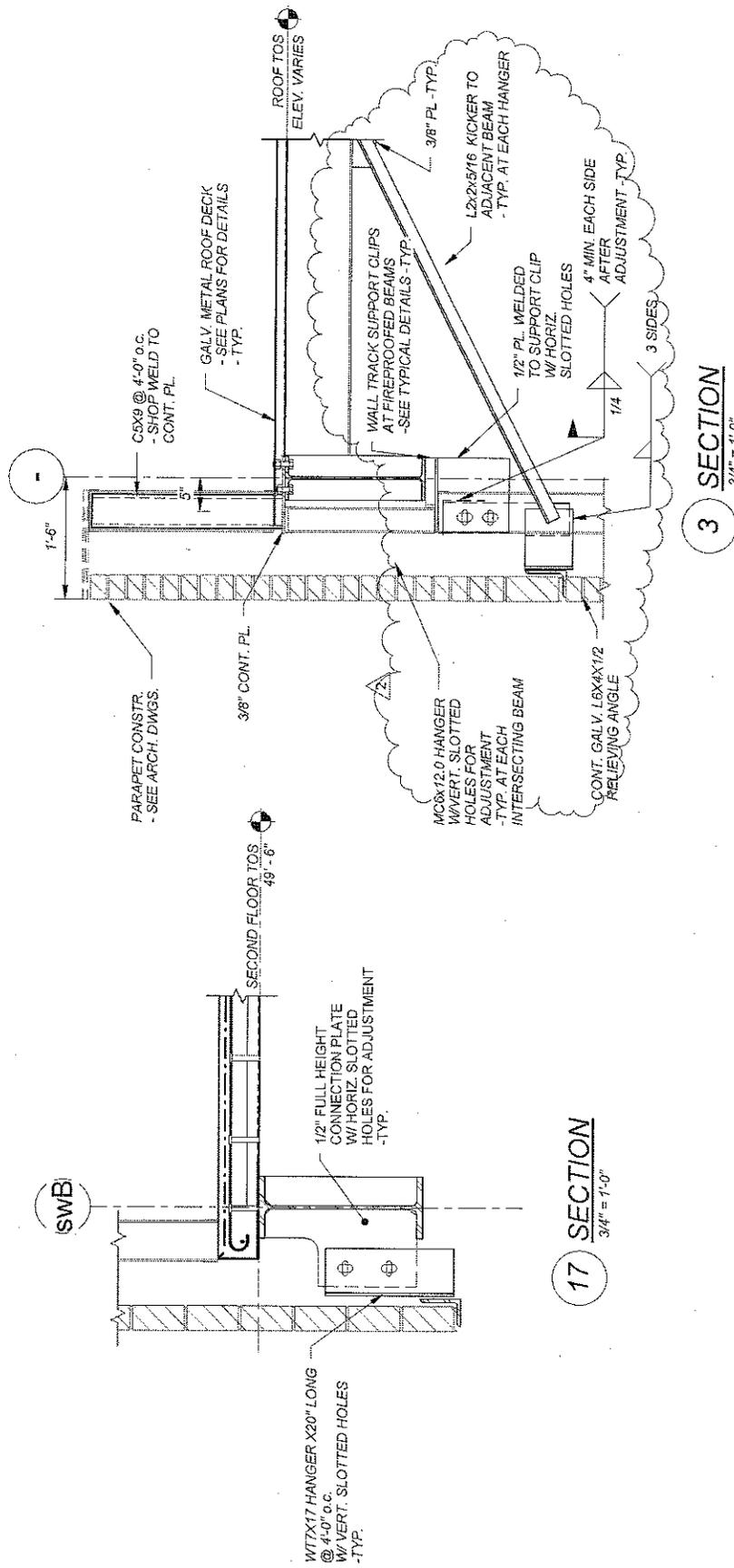
**8 SECTION**  
3/4" = 1'-0"

**Perkins Eastman**  
50 FRANKLIN STREET  
SUITE 203  
BOSTON, MA 02110  
T. 617.449-4000

**PROJECT:** Dr. Martin Luther King, Jr. School  
**Construction Project**

**PROJECT NO.:** 47931.00  
**SCALE:** 3/4" = 1'-0"  
**SHEET REFERENCE:**  
**DWG. NO.:** **SKS-25**

**DRAWING TITLE:** Revisions to Section 8 on S600  
**DATE:** 12/10/2013 BID ADDENDUM 2



17 SECTION  
3/4" = 1'-0"

3 SECTION  
3/4" = 1'-0"

Penkins Eastman  
50 FRANKLIN STREET  
SUITE 203  
BOSTON, MA 02110  
1.617.446.9600

PROJECT: Dr. Martin Luther King, Jr. School  
Construction Project

PROJECT NO. 47831.00  
SCALE: 3/4" = 1'-0"

DRAWING TITLE: Revisions to Section 3 on S703 and New Relieving Angles Section 17 on S801  
DATE: 12/10/2013 BID ADDENDUM 2

SHEET REFERENCE:  
DWG. NO.: SKS-26

G.4

REFER TO ARCH. DWGS FOR STEP DIMENSIONS - COORDINATE REBAR WITH SEAT BOLTS - TYP.

#4@12" TOP AND BOT. PARALLEL TO SLOPED BEAMS - TYP.

#5@12" TOP AND BOT. PERPENDICULAR TO SLOPED BEAMS - TYP.

#4@12"

6.20

12

3/8" STIFF. PLS. BOTH SIDES AT POST - TYP.

1/2" MIN. CAP PLATE - TYP.

HSS POST DOWN

REFER TO PLANS FOR METAL DECK INFO. - TYP.

REINFORCING PLATE EACH SIDE OF WEB TO MATCH BEAM FLANGE THICKNESS PLATES TO EXTEND OUT TO MATCH BEAM WIDTH

3/8" STIFF. PLS. - BOTH SIDES - TYP.

FULL PEN

W10X39

TOS ELEV. = 45' - 0"

## 2 PARTIAL SECTION

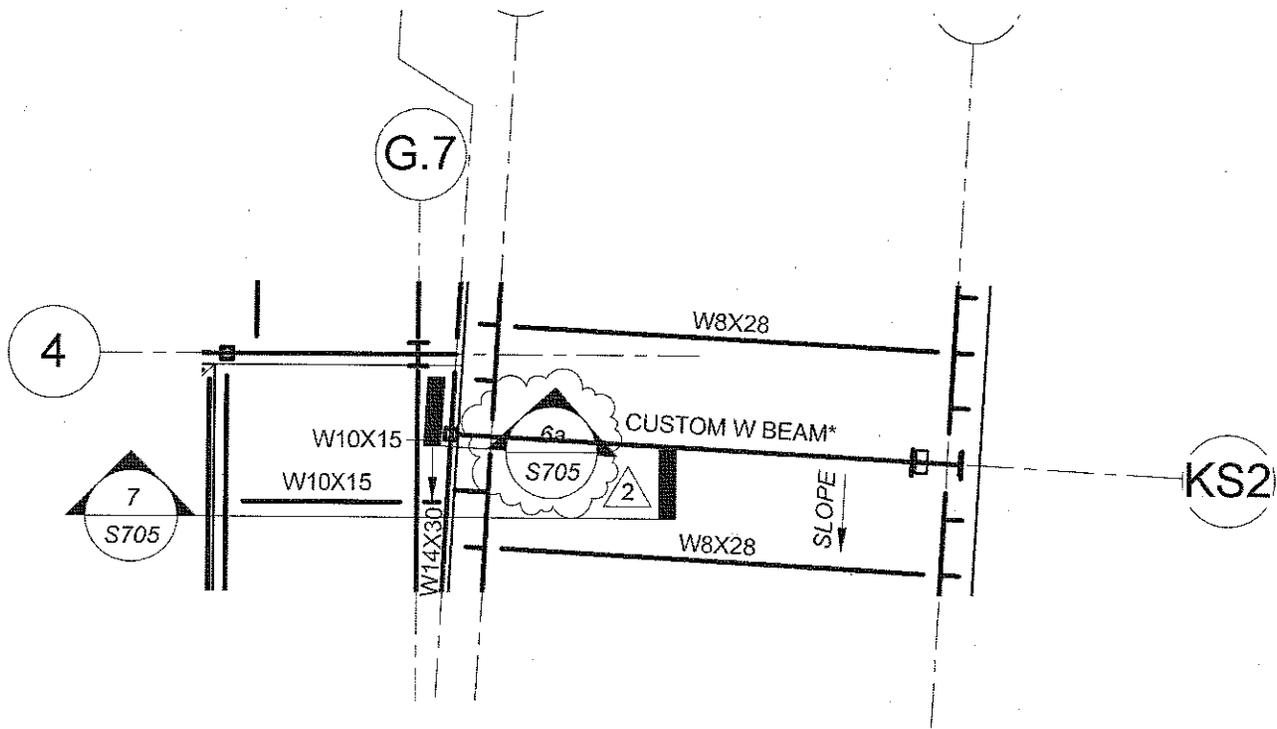
3/4" = 1'-0"

**Perkins Eastman**  
50 FRANKLIN STREET  
SUITE 203  
BOSTON, MA 02110  
T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School Construction Project**

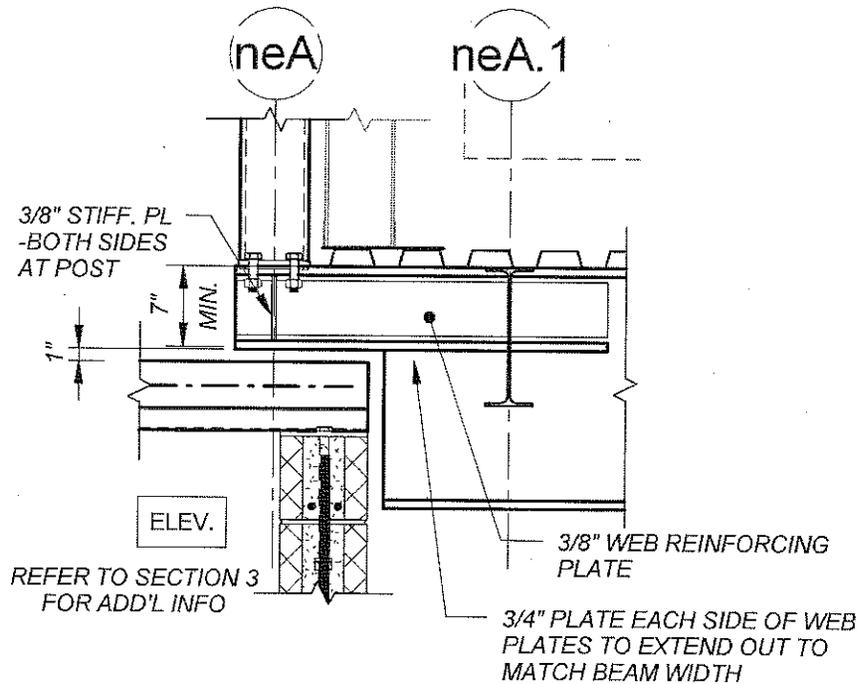
PROJECT NO. 47931.00  
SCALE: 3/4" = 1'-0"  
SHEET  
REFERENCE:  
DWG. NO.: **SKS-27**

DRAWING TITLE: Revisions to Section 2 on S603  
DATE: 12/10/2013 BID ADDENDUM 2



**S114.3 Part Plan**

1/8" = 1'-0"

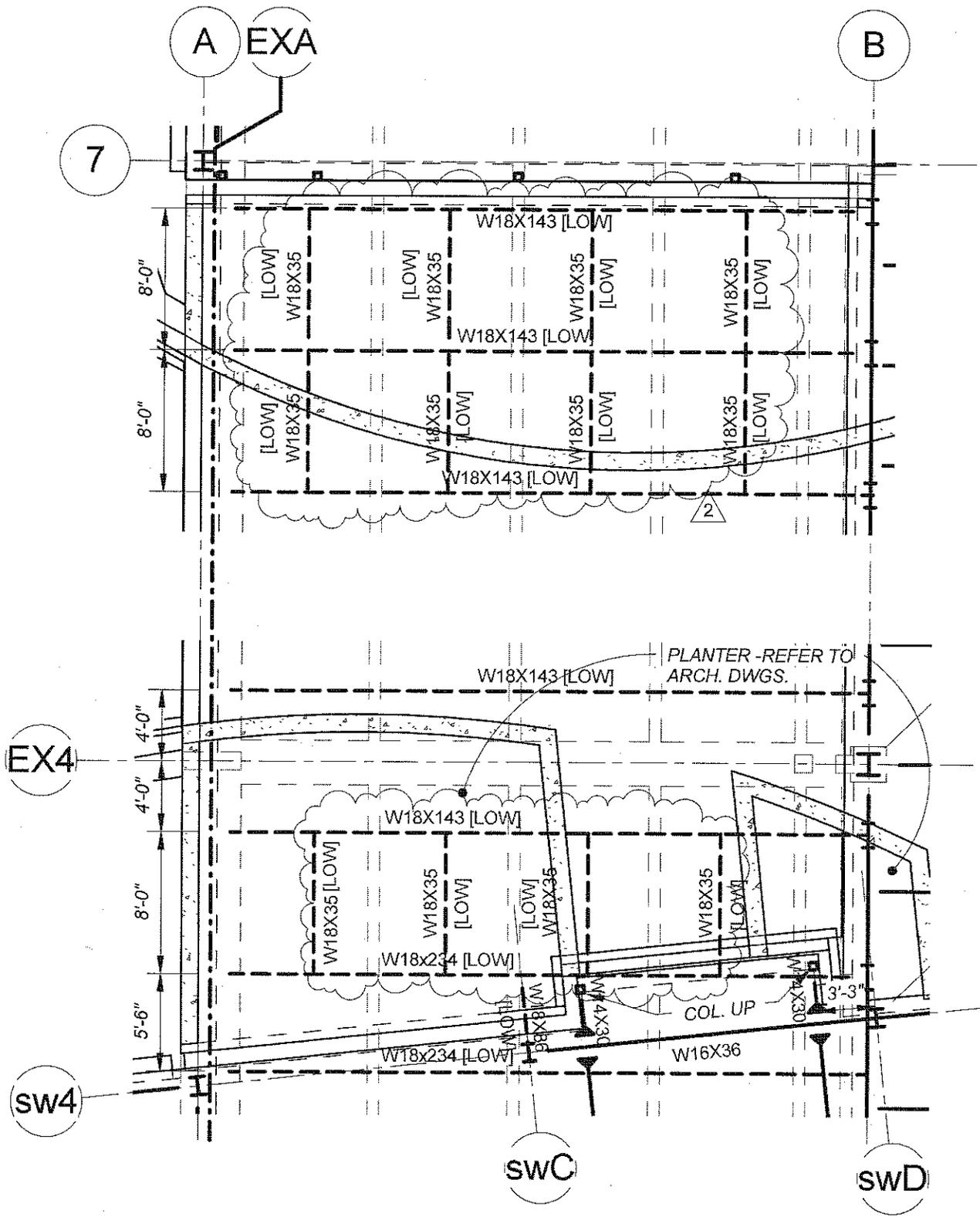


**6a SECTION**  
3/4" = 1'-0"

**Perkins Eastman**  
50 FRANKLIN STREET  
SUITE 203  
BOSTON, MA 02110  
T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School Construction Project**  
DRAWING TITLE: New Section 6a on S705  
DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
SCALE: As indicated  
SHEET REFERENCE:  
DWG. NO.: **SKS-28**



**S111.4 Part Plan**

1/8" = 1'-0"

**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School**

PROJECT NO. 47931.00

**Construction Project**

SCALE: 1/8" = 1'-0"

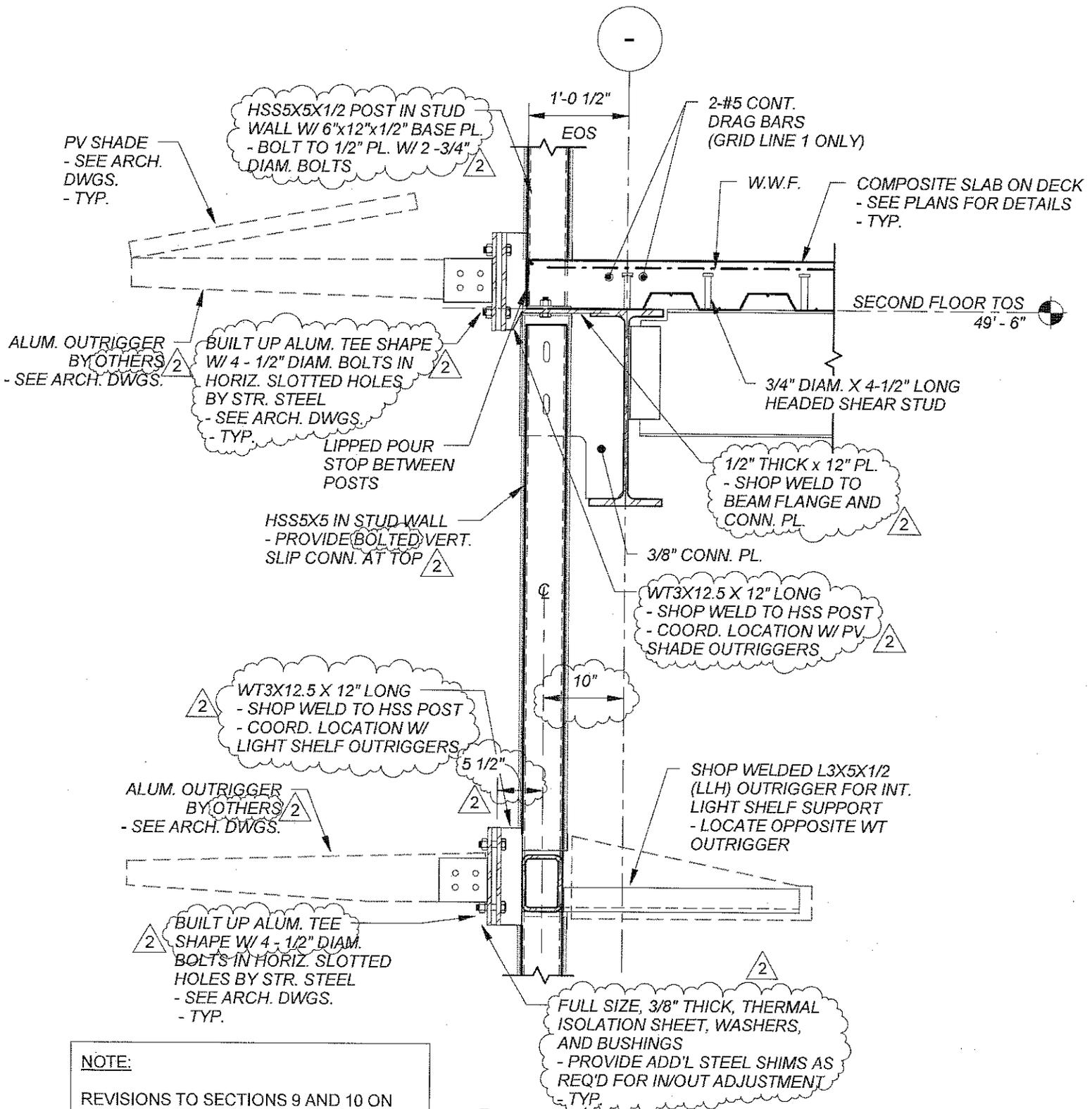
DRAWING

TITLE: Added Beams for Reinforcing of Existing Slab

SHEET  
 REFERENCE:

DATE: 12/10/2013 BID ADDENDUM 2

DWG. NO.: **SKS-29**



**NOTE:**  
 REVISIONS TO SECTIONS 9 AND 10 ON S703 ARE SIMILAR, WITH 1/4" CAP PLATE AT TOP OF HSS POST.

**11 SECTION**  
 3/4" = 1'-0"

**Perkins Eastman**  
 50 FRANKLIN STREET  
 SUITE 203  
 BOSTON, MA 02110  
 T. 617.449.4000

PROJECT: **Dr. Martin Luther King, Jr. School Construction Project**  
 DRAWING TITLE: Revisions to Section 11 on S602  
 DATE: 12/10/2013 BID ADDENDUM 2

PROJECT NO. 47931.00  
 SCALE: 3/4" = 1'-0"  
 SHEET REFERENCE:  
 DWG. NO.: **SKS-30**