

Summary of Revision 1 to HISD Design and Construction Standards Version 2.0
Revision date: September 26, 2008

- Section I None
- Section II Page 9, added line item #9, to explain how to identify revisions made to program of spaces, data sheets and floor plans in Section II.
- Page 41, floor plan: Kitchen floor plan layout revised
- Page 76-77, floor plan and data sheet: deleted the words “including storage”.
- Page 80, data sheet: under Electrical heading, added power ‘dedicated for copier’.
- Page 81, floor plan: revision to floor plan showing location of copier.
- Page 93, data sheet: under Architectural General heading, metal shelving revised to 36”x18”
- Section III None
- Section IV None
- Section V None
- Section VI Page 1, Table of Contents: added explanation of how to identify revisions made to Section VI.
- Page 1-9, Table of Contents: added revision date for the sections that have been revised: 08 71 00 Finish Hardware, 09 90 00 Painting, 11 40 00 Foodservice Equipment, 14 42 00 Elevators, 22 40 00 Plumbing Fixtures, 23 05 00 Common Work Results for HVAC, 26 05 00 Common Work Results for Electrical, 32 80 00 Irrigation.
- Added new section, 09 65 66 Resilient Athletic Rubber Flooring

Summary of Revision 2 to HISD Design and Construction Standards Version 2.0
Revision date: October 27, 2008

- General The Design and Construction Standards are set up for duplex printing.
- Special instructions for reprinting Section VI: due to revisions in Section VI, content has shifted on pages 19-34. For those who wish to update Section VI without reprinting the entire section, select pages 19-34 for single sided printing or pages 18-35 for duplex printing.
- Section I Insert page after title page which reads: NOTE: This document has been set up for duplex printing.
- Insert page after update page which reads: This page intentionally left blank.
- Insert page after 2008 Board of Education page which reads: This page intentionally left blank.
- Page 1, Table of contents: add revision tracking date, 10-27-08 for sections that have been updated as part of Revision #2.
- Section II Page 7, modify space description Office, data or title 1, by inserting the word 'clerk' after 'data'.
- All drawings, except pages 109,111, and 113, keynote #4 and #10 revised. Add keynote #12 which reads: (1) 1" conduit installed under slab from single gang back box at TWS to single gang back box at future Smartboard location. Provide and install a stainless steel blank cover plate at each end (*coordinate location w/ owner). Add keynote #13 which reads: Intercom administrative call station.
- Page 10, data sheet: under Electrical heading, delete fax
- Page 11, floor plan: ceiling mounted projector revised to wall mounted projector, delete D4 and revise keynote 8 to keynote 7 at teaching wall only. Refer to drawing for additional information.
- Pages 15, floor plan: ceiling mounted projector revised to wall mounted projector. Casework type B, teacher wardrobe and workstation relocated. Refer to drawings for additional information.
- Page 16, floor plan: ceiling mounted projector revised to wall mounted projector.
- Page 18, floor plan: ceiling mounted projector revised to wall mounted projector. Casework type B, teacher wardrobe and workstation relocated. Delete keynote #12 pointing to casework type B. Refer to drawing for additional information.

Page 19, typical RCP: ceiling mounted projector revised to wall mounted projector. Mirror Projection screen and light zone (1). Refer to drawing for additional information.

Page 21, floor plan: ceiling mounted projector revised to wall mounted projector. Casework type B, teacher wardrobe and workstation relocated. Refer to drawing for additional information.

Page 24, floor plan: ceiling mounted projector revised to wall mounted projector. Casework type B, teacher wardrobe and workstation relocated. Add data outlet D4 and quad power outlet. Refer to drawing for additional information.

Pages 25-26, data sheet and floor plan: delete data outlet D2.

Page 28, floor plan: revised location of desk, call button, quad power outlet and data outlet D2. Refer to drawing for additional information.

Page 33, floor plan: ceiling mounted projector revised to wall mounted projector. Casework type B, teacher wardrobe and workstation relocated. Add two additional casework type K at end of middle row of student workstations. Refer to drawing for additional information.

Page 34, data sheet: revise general note 3) to read: Provide reinforcement in wall for flat screen TV (NIC).

Page 38, data sheet: under Electrical heading, add Room sound reinforcement.

Page 39, floor plan: revise location of data outlet D2 and quad power outlet. Refer to drawing for additional information.

Page 41, data sheet: under Electrical heading, add Fax.

Page 42, floor plan: add desk (furniture, NIC), data outlet D3 and quad power outlet at office. Add one (1) data outlet D1 for each POS terminal. Refer to drawing for additional information.

Page 51, floor plan: delete quad power outlet and D2 data outlet on either side of projection screen.

Page 60, floor plan: add lighting and sound control, add mic input at stage riser, and add note to locate projection screen in front of valance. Refer to drawing for additional information.

Page 64, floor plan: ceiling mounted projector revised to wall mounted projector. Revised location of data outlet D2 and quad power outlet. Revised location of casework type B, teacher wardrobe and workstation and delete 4 casework type A. Refer to drawing for additional information.

Page 66, data sheet: under general note 3) add, Electrical: intercom administrative handset.

Page 67, floor plan: add intercom administrative handset, keynote #13.

Pages 72-73, data sheet and floor plan: revise title by inserting the word 'clerk' after 'data'.

Page 74, data sheet: revise general note 1) to read: Locate near receiving entry (2500).

Page 76, data sheet: under general note 3) add, Electrical: intercom administrative handset.

Page 77, floor plan: add intercom administrative handset, keynote #13.

Page 83, data sheet: under general note 3) add, Electrical: intercom administrative handset.

Page 84, floor plan: revised location of data outlet D1, duplex power outlet, and wall mounted LCD for both option 1 and option 2. Add intercom administrative handset, keynote #13. Refer to drawing for additional information.

Page 86, floor plan: ceiling mounted projector revised to wall mounted projector. Casework type B, teacher wardrobe and workstation relocated. Refer to drawing for additional information.

Page 88, floor plan: ceiling mounted projector revised to wall mounted projector. Casework type B, teacher wardrobe and workstation and tackboard relocated. Add two duplex power outlets at teaching wall. Refer to drawing for additional information.

Pages 109, 111 and 113, floor plans: revise keynote #16 to read, 120V AC/20 AMP dedicated electrical quad receptacle mounted at +72" AFF typical for all shown. At keynote #24, after the word conduit, add the following: routing from property line conduits to be located within 6" of wall surface and shall be stubbed up +6" AFF.

Page 109, floor plan: add plywood to side walls of FCR-1 (8'-9' room). Drawing scale increased for clarity.

Page 110, data sheet: Add data.

Page 111, floor plan: add six (6) quad power outlets and five (5) data outlets (D2). Refer to drawing for additional information. Drawing scale increased for clarity.

Insert page 116, which reads: This page intentionally left blank.

- Section III Insert page 2, which reads: This page intentionally left blank.
- Section IV Insert page 2, which reads: This page intentionally left blank.
- Section V Page 32, Communication Outlet Elevation: revised AV1 wall plate configuration. Refer to drawing for additional information.
- Page 33, Communication Outlet Elevation: revised AV2 wall plate configuration. Refer to drawing for additional information.
- Pages 34-37, Communication Outlet Elevations: revised leader note indicating conduit quantity. Refer to drawing for additional information.
- Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 08 71 00 Finish Hardware, 09 90 00 Painting, 27 13 00 Communications Support Systems.
- Pages 19-22, Section 08 71 00 Finish Hardware: Revise Warranty for Locks/Locksets, and Exit Devices revised to five years. Miscellaneous revisions under B.c. including but not limited to: adding McKinney as an approved manufacturer, including model numbers to clarify required performance criteria for hardware.
- Page 23, Section 09 90 00 Painting: revise A.b. to read, USGBC LEED For Schools 1st Edition 2007, with v2007 Errata.
- Page 65, Section 27 13 00 Communications Support Systems: under A.2 add: item d, For any half-height (pony) walls, contractor shall install a dedicated 1” conduit with pullstring for every two technology boxes installed. Conduits shall route directly from technology boxes up wall in direction of nearest BCR/FCR headend room and terminate above ceiling for the installation of technology cabling.

Summary of Revision #3 to HISD Design and Construction Standards Version 2.0
Revision date: January 27, 2009

- General Special instructions for reprinting Section VI: due to revisions in Section VI, content has shifted on pages 30-31 and 60-73 and as a result, a new page, 74 was created. For those who wish to update Section VI without reprinting the entire section, select pages 30-31 and 60-74 for duplex printing.
- Section I None
- Section II Page 14, data sheet: under General note 3), revise bubbler height to 26" AFF.
Page 15, floor plan: added two built-in computer workstations.
Page 16, floor plan: added two built-in computer workstations.
- Section III None
- Section IV None
- Section V Page 7, Casework Type E: Revised to show approximate location of sink bubblers. Added General Note 3 which reads: "Provide a bubbler at each of the two accessible sinks. The bubblers should be easily accessible to small children."
Page 13, Casework Type K: Added heights for pre-k and kindergarten.
- Section VI Pages 2-3 and 5-7, Table of Contents: added revision date for the sections that have been revised: 22 05 00 Common Work Results for Plumbing and 26 05 00 Common Work Results for Electrical
Page 30, Section 22 05 00 Common Work Results for Plumbing: Under item A.12, add the following, "(2) of (3) sinks at shared casework in Pre-K and Kindergarten classrooms shall be provided with bubblers at 26" AFF."
Pages 60-61, Section 26 05 00 Common Work Results for Electrical: Clarifications to Cafetorium Sound System – Items 24.b-e revised and added items 24.f-h.

Summary of Revision 4 to HISD Design and Construction Standards Version 2.0
Revision date: March 13, 2009

- General Special instructions for reprinting Section VI: due to revisions in Section VI, content has shifted on pages 25-to the end of the document. For duplex printing select pages 24-74.
- Section II All drawings, except pages 109,111, and 113, keynote #10 and #12 revised.
- Page 9, at end of note number 6, add: Every data outlet in the building must be within a 180 foot radius of an FCR or the Building Communications Room (BCR).
- Page 10, data sheet: delete ceiling mounted projector. Revise Proj. Screen 60”h x 107 to Interactive Board (NIC), 77.5”w.
- Page 11, floor plan: ceiling mounted projector deleted, revised location of 4’x12’ markerboard, 4’x6’ markerboard and 4’x4’ tackboard. Refer to drawing for additional information.
- Page 14, data sheet: delete ceiling mounted projector. Add (1) 4’x6’ markerboard, delete (1) 4’x12’ markerboard. Revise Proj. Screen 60”h x 107 to Interactive Board (NIC), 77.5”w.
- Page 15, floor plan: ceiling mounted projector deleted, revised location of 4’x12’ markerboard and 4’x4’ tackboard. Refer to drawing for additional information.
- Page 16, floor plan: ceiling mounted projector deleted, revised location of 4’x12’ markerboard and 4’x4’ tackboard. Revised casework type E2 to casework type E. Refer to drawing for additional information.
- Page 17, data sheet: delete ceiling mounted projector. Add (1) 4’x6’ markerboard, delete (1) 4’x12’ markerboard. Revise Proj. Screen 60”h x 107 to Interactive Board (NIC), 77.5”w.
- Page 18, floor plan: ceiling mounted projector deleted, revised location of 4’x12’ markerboard and 4’x4’ tackboard. Refer to drawing for additional information
- Page 19, typical classroom reflected ceiling plan, delete projection screen and projector. Refer to drawing for additional information.
- Page 20, data sheet: delete ceiling mounted projector. Add (1) 4’x6’ markerboard, delete (1) 4’x12’ markerboard. Revise Proj. Screen 60”h x 107 to Interactive Board (NIC), 77.5”w.

Pages 21, floor plan: ceiling mounted projector deleted, revised location of 4'x12' markerboard and 4'x4' tackboard. Refer to drawing for additional information.

Pages 22-23 data sheet: delete ceiling mounted projector. Add (1) 4'x6' markerboard, delete (1) 4'x12' markerboard. Revise Proj. Screen 60''h x 107 to Interactive Board (NIC), 77.5''w.

Pages 24, floor plan: ceiling mounted projector deleted, revised location of 4'x12' markerboard and 4'x4' tackboard. Refer to drawing for additional information.

Page 32, data sheet: delete ceiling mounted projector. Add (1) 4'x6' markerboard, delete (1) 4'x12' markerboard. Revise Proj. Screen 60''h x 107 to Interactive Board (NIC), 77.5''w.

Page 33, floor plan: ceiling mounted projector deleted, deleted the 4'x12' markerboard and replaced with a 4'x6' markerboard. 4'x4' tackboard relocated. At student workstations, casework type K, the dashed lines were revised to solid lines to indicate that workstations are fixed. The location of tall storage units, casework type Q was revised. Delete AV1 at casework type B. Refer to drawing for additional information.

Page 39, floor plan: revised location of power and data shown next to storage pocket for the operable partition. Refer to drawing for additional information.

Page 42, floor plan: deleted rethermalizer and replaced with steamer TN-106 or TN-106a. Deleted Mobile Ice Cream Freezer. Added TN numbers for several pieces of equipment. Refer to drawing for additional information.

Page 51, floor plan: added table (NIC) to clarify location for power and data for AV equipment. Deleted two casework type H4, and relocated opac stations, casework type L.

Page 63, data sheet: delete ceiling mounted projector. Add (1) 4'x6' markerboard, delete (1) 4'x12' markerboard. Revise Proj. Screen 60''h x 107 to Interactive Board (NIC), 77.5''w.

Page 64, floor plan: ceiling mounted projector deleted, revised location of 4'x12' markerboard and 4'x4' tackboard. Refer to drawing for additional information

Page 85, data sheet: delete ceiling mounted projector. Add (1) 4'x6' markerboard. Revise Proj. Screen 60''h x 107 to Interactive Board (NIC), 77.5''w.

Page 86, floor plan: ceiling mounted projector deleted, revised location of 4'x12' markerboard and 4'x4' tackboard. Refer to drawing for additional information.

Page 87, data sheet: delete ceiling mounted projector. Add (1) 4'x6' markerboard, delete (1) 4'x12' markerboard. Revise Proj. Screen 60"h x 107 to Interactive Board (NIC), 77.5"w.

Page 88, floor plan: ceiling mounted projector deleted, revised location of 4'x12' markerboard and 4'x4' tackboard. Refer to drawing for additional information.

Pages 109, 111, and 113, floor plans: keynote #4, delete the words: serving each "BCR".

Page 110, data sheet: revise general note 1) to read: Locate this room on level 1, close to the Admin. area, near the center of the building based on entry location for telephone and fiber-optic service. The BCR should not have any exterior walls.

Under general note 3) revise the next to last sentence to read: Provide building air to cool 30,000 BTU. The unitary air conditioner is to provide backup air only.

Section III None.

Section IV None.

Section V Page 2, Casework Type A: revised height to 2'-2".

Page 7, Add Casework Type E.

Page 13, Casework Type K/L: revised counter supports and added grommet. Refer to drawing for additional information.

Section VI Pages 1-9, Table of Contents: Added new section, 10 40 00 Marquee

Page 73, Section 32 31 13 Chain Link Fences and Gates: Item B.1, revised height to 6'-0".

Summary of Revision 5 to HISD Design and Construction Standards Version 2.0
Revision date: May 13, 2009

- General Special instructions for reprinting Section VI: Due to revisions in Section VI, content has shifted on pages 17 to the end of the document. For duplex printing, select pages 17 to the end of the document.
- Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #5.
- Insert HISD LEED Requirements after page 9. EQ Credit 9 Enhanced Acoustical Performance has been removed as an HISD Requirement but it remains as an option.
- Section II Page 2, under site development add, o) playground equipment. [Equipment Specifications to be issued in Revision #6. Include a \$75,000 allowance for playground equipment until specific equipment specifications are issued.]
- Page 3, line item 27: Revise to ‘not used’, playground equipment shall be included in the contract.
- Page 8, modify space description Corridors and entry, by adding (1500 SF for optional joint activities). As a result of the change, two other columns were modified.
- Page 9, at end of note number 6, add: BCRs and FCRs are often located adjacent to electrical closets. If shielded transformers are provided, they should be kept at least 6 feet away from the network equipment in the BCR/FCR, and located on the opposite side of the room. For unshielded transformers, the distance from network equipment should be at least 10 feet.
- Page 33, floor plan: Delete student workstations, casework type K, the solid lines were revised to dashed lines to indicate that workstations are furniture in lieu of built-ins. The low wall at the center of the room shall be 2’-6” high.
- Page 41, data sheet: at the end of general note 3) add, Plumbing: Gas piping for kitchen area should be exposed, not contained within walls.
- Pages 109,111, and 113, floor plans: keynote #17, delete the words, serving each “BCR”.
- Pages 109 and 111, floor plans: deleted ladder tray shown inside the room. HISD will furnish.
- Section III None.
- Section IV None.

Section V None.

Section VI HISD has decided that for all roofs, the base proposal shall be a Low Sloped Two-Ply Modified Bitumen Roofing System and that each project should include a deductive alternate for a Low Sloped Single Ply Thermoplastic Roofing System.

A limited amount of Terrazzo (at entry areas) is now an option. Refer to new section 09 66 13 Portland Cement Terrazzo Flooring.

Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 07 52 00 Low Sloped Two-Ply Modified Bitumen Roofing System, 09 68 00 Carpeting, 27 11 00 Telecommunication Room Requirements, 28 16 00 Intrusion Detection Systems, 28 23 00 Security Camera Systems, and 28 31 00 Fire Detection and Alarm.

Added new sections, 07 40 00 Roofing and Siding Panels, 07 54 23 Low Sloped Single Ply Thermoplastic Roofing System, 09 67 00 Resinous Flooring, and 09 66 13 Portland Cement Terrazzo Flooring.

Page 14, Section 07 40 00 Roofing and Siding Panels, new section added.

Page 15, Section 07 52 00 Low Sloped Two-Ply Modified Bitumen Roofing System, add BASE PROPOSAL.

Page 17, Section 07 54 23 Low Sloped Single Ply Thermoplastic Roofing System, new section added.

Page 23, Section 09 68 00 Carpeting: Item A.4, replaced 'Campus' with Faculty IV or Building Works.

Page 26, Section 11 40 00 Foodservice Equipment, add item C which reads: Gas piping for kitchen area should be exposed, not contained within walls.

Page 63, Section 27 05 00 Technology Methods and Materials: Miscellaneous revisions to line items A.1-A.3.

Page 64, Section 27 11 00 Telecommunication Room Requirements: Item B.4.1, add, Wall mounted fixtures, coordinate locations with equipment.

Page 64-65 Section 27 13 00 Communications Support Systems: Miscellaneous revision to item A.

Pages 67-68, Section 28 16 00 Intrusion Detection Systems: Miscellaneous revisions under the entire section, including but not limited to: revised equipment manufacturers and model numbers.

Page 69, Section 28 23 00 Security Camera Systems: Miscellaneous revisions under the entire section, including but not limited to: revised selected equipment manufacturers and model numbers.

Page 70, Section 28 31 00 Fire Detection and Alarm: at the end of item A.2.c, add Silent Knight – Model #5895XL.

Summary of Revision 7 to HISD Design and Construction Standards Version 2.0
Revision date: June 15, 2009

- General Special instructions for reprinting Section VI: Due to revisions in Section VI, content has shifted starting at page 32. For duplex printing, select pages 25-26 and 31 to the end of the document.
- Section I Page 1, Table of Contents, revision tracking date added/or revised for sections affected by Revision #7.
- Section II All floor plans except pages 109, 111 and 113, keynotes #5, #6, #10 and #12 revised. Keynote 5 was removed on all drawings except page 88, the only floor plan in Section II where the revised keynote is applicable.
- The Data outlet symbol SB (at main teaching wall) was revised to IB (Interactive Board). In conjunction with keynote #12, this symbol indicates the location for the stainless steel blank cover plate indicated in the revised keynote. At the opposite end of the dashed line or arc shown, a USB Faceplate should be provided. Refer to Section V, Communications Outlet Elevation, Page 34 for additional information.
- Page 87, data sheet: under Plumbing heading, revised eyewash to Built in eye/face wash (swivel type).
- Page 88, floor plan: The locations of the built-in eye/face wash, goggle cabinet, and power outlet for the goggle cabinet are shown and indicated with the corresponding keynotes.
- Section III Added Data Sheets and Floor Plans for Middle School Science Rooms, 8 pages.
- Section IV Added Data Sheets and Floor Plans for High School Science rooms, 8 pages.
- Section V Page 1, Casework Types. Added mounting heights for Markerboards, Tackboards, and Interactive Boards for Middle School, High School and Adults.
- Pages 2-3 Casework Types. Revised height of Wardrobe Unit, Casework Type B and B1 to 7'-0" AFF.
- Pages 4-6, added general notes pertaining to science room casework.
- Page 16, added new Casework Type P, 18" x 24" Deep Drawer Unit.
- Page 20, added new Casework Type T, Teacher Demonstration Station.
- Page 34, Communications Outlet Elevation, revised Smart Board to Interactive Board.

Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 09 68 00 Carpeting, 11 68 13 Playground Equipment, 12 30 00 Educational Casework, 26 05 00 Common Work Results for Electrical, 26 50 00 Lighting, 32 31 13 Chain Link Fences and Gates, 32 80 00 Irrigation.

Added new section 12 35 00 Laboratory Casework.

Page 26, Section 09 68 00 Carpeting, line item A.2: revise Sentinel to Applause II.

Page 31, Section 11 68 13 Playground Equipment, add: Include a \$75,000 allowance for playground equipment until specific equipment specifications are issued. *This change was issued previously in Revision 5, Section II.

Page 32, Section 12 30 00 Educational Casework add item F: Wheatboard casework specifications. 12 35 00 Laboratory Casework, new section added.

Page 57, Section 26 05 00 Common Work Results for Electrical, Item 9.d. add: All separately derived systems such as isolation transformers must be grounded at the common point by connecting to a ground rod or building steel. The equipment ground for electrical service shall not be used as a grounding point for any transformer.

Page 58, Section 26 05 00 Common Work Results for Electrical, item 9.h. add the following after cafeteria sound system: UPS, computers and all electric equipment non-linear loads. Item 17d. add 2'x4' direct/indirect lay-in luminaires and/or direct/indirect pendant fixtures with min. mounting height of 8'-0" AFF shall be considered for applicable LEED credit.

Page 77, Section 32 31 13 Chain Link Fences and Gates, miscellaneous clarifications including but not limited to PVC coating and sizes of framing members.

Page 77, Section 32 80 00 Irrigation, under A.1 add: Rainbird Drip Control Kit XCZ-100-B-COM and/or MP Rotator may be considered for applicable LEED credit. Revise the first part of item B to read: Lawn irrigation should be limited, such as entry areas at Elementary Schools. Verify Middle School and...

Summary of Revision 8 to HISD Design and Construction Standards Version 2.0
Revision date: July 17, 2009

- General Special instructions for reprinting Section VI: Due to revisions in Section VI, content has shifted beginning at page 23. For duplex printing, select pages 23 through the end of the document.
- Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #8.
- Section II Page 102, data sheet: partition type revised to Metal stud, abuse resistant gyp. bd. to 4' AFF.
- Section III None.
- Section IV None.
- Section V Page 20, Casework Type S revised.
- Page 33, Sign Type L, Dedication Plaque revised. A Microsoft Word file will be available upon request. Building entry signage at bottom of page deleted.
- Insert Page 34, Building Entry Signage, revised to read: Exterior graphics shall be selected by Architect as appropriate for building design. Communication Outlet Elevations now begin on Page 35.
- Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 08 71 00 Finish Hardware, 09 68 00 Carpeting, 09 99 00 Painting, and 23 05 00 Common Work Results for HVAC.
- A complete specification for Section 23 09 00, Instrumentation and Control for HVAC, has been added as an attachment at the end of the document. Section 23 09 00 was originally issued in Revision 6, via email on June 5, 2009. The Microsoft Word file will be made available upon request.
- All references to division 17000 have been revised to 23 09 00.
- Page 23, Section 08 71 00 Finish Hardware, Item D.a, add NOTE TO SPECIFIER: Specifications should indicate that the GC shall contract with Best Access/Stanley to remove all temporary cores and install final cores under direct supervision of HISD representative.
- Page 26, Section 09 68 00 Carpeting, item A.4, revised Thermobond to Unibond. Added item A.5, J&J Impulse II with TitanBac Backing.
- Page 27, Section 09 90 00 Painting, revised. Paint finish shall be semi-gloss.

Page 40, Section 23 05 00 Common Work Results for HVAC, under Elementary Schools, 5.a. delete the following: plus a 5% addition to allow for lead lag operation. Item 5.d after the word capacity, insert: as a.

Page 44, add Section 23 09 00 Instrumentation and Control for HVAC. Refer to attachments at the end of Section VI.

Summary of Revision 9 to HISD Design and Construction Standards Version 2.0
Revision date: October 21, 2009

- General Special instructions for reprinting Section VI: Due to revisions in Section VI, content has shifted beginning at page 17. For duplex printing, select pages 17 through the end of the document.
- Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #9.
- Section II A new page was added after page 19. All subsequent page numbers in Section II have shifted. For duplex printing, select pages 19 through the end of the document.

All floor plans except pages 110, 112 and 114, keynote #12 revised. The new keynote reads: (1) 1" conduit installed above ceiling from single gang back box at TWS to single gang back box at future interactive board location. Provide and install a stainless steel blank cover plate @ IB data symbol (coordinate location w/ owner). Cable distance from TWS (Teacher Work Station) to IB shall not exceed 35'.

Page 19, reflected ceiling plan: Revised notes for RCP.

Page 20, reflected ceiling plan: Alternate RCP showing configuration of direct/indirect pendant lighting, an option allowed by a previous revision.

Page 34, floor plan: Revised height of low wall to 4'-0" AFF.

Page 39, data sheet: Under item 3) Additional notes; add the words 'motor operated' before folding panel partition in the second sentence.

Page 56, data sheet: Under item 3) Additional notes, at the end of the last sentence add, (not VCT) and extend at least 2' from the front and both sides of the drinking fountains.

Page 60, data sheet: Under item 3) Additional notes, add, Electrical: Provide power for projector (NIC).

Page 85, floor plan: Revise keynote 'remote fire alarm panel' to 'enunciator'.

Page 88, data sheet: General Notes, item 3) Additional notes, after the first sentence, add a new sentence which reads: Provide a fire extinguisher in each science room.

Page 103, data sheet: Partition Finishes, paint shall be semi-gloss.

Pages 110, 112, and 114, floor plans: keynotes revised.

Page 110, floor plan: Added dashed lines indicating ceiling mounted and/or wall mounted ladder tray inside the FCR for informational purposes only. This work to be performed by others.

Page 111, data sheet: General Notes, item 1) revised the first sentence to read: 'Locate this room on level 1, close to the Admin. area. The door should open to the corridor.'

Page 112, floor plan: location of main building alarm panel shown. Added dashed lines indicating ladder tray inside the BCR for informational purposes only. This work to be performed by others.

Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 07 52 00 Low Sloped Two-Ply Modified Bitumen Roofing System, 14 42 00 Elevators, 23 05 00 Common Work Results for HVAC, Section 23 34 23 Power Ventilators, 26 05 00 Common Work Results for Electrical, 26 50 00 Lighting and 27 50 00 Distributed Communications and Monitoring Systems (this heading to be revised as noted below).

Added new sections, Intercom System 27 51 00, and Access Control 28 13 00.

Page 15, Section 07 52 00 Low Sloped Two-Ply Modified Bitumen Roofing System, delete the words 'Base Proposal' in the title.

Page 17, delete Section 07 54 23 Low Sloped Single-Ply Thermoplastic Roofing System in its entirety. All content on subsequent pages shifts accordingly.

Page 31, Section 14 42 00 Elevators: Item A1.a.i., delete ThyssenKrup, revise to 'not used.'

Page 37, Section 23 05 00 Common Work Results for HVAC: Item a.1), after the first sentence add, Provide equipment with power factor correction capacitors as required to maintain a power factor of 95% at all load conditions. All chillers shall have transient voltage surge suppressors installed on the disconnecting means beside the chiller.

Page 47, Section 23 34 23 Power Ventilators: Penn Barry is an acceptable manufacturer.

Page 54, Section 26 05 00 Common Work Results for Electrical: Item D1.a, add TVSS shall also be installed on the disconnecting means at beside all chillers.

Page 64, Section 26 05 00 Common Work Results for Electrical: Item 23 revised to read, Provide Intercom System. Refer to Section 27 51 00. Item 24 revised to read, Provide Local Sound Reinforcing System. Refer to Section 27 50 00.

Page 65, Section 26 50 00 Lighting: Item C1, add Arcalux to be considered on a trial basis as a bid alternate for applicable LEED credit.

Page 68, Section 27 50 00 title revised to Local Sound Reinforcing System. Item B, Intercom System was moved to new Section 27 51 00.

Page 69, new Section 27 51 00, Intercom System added.

Page 70, new Section 28 13 00 Access Control added. A complete specification for Access Control has been added as an attachment at the end of Section VI.

Summary of Revision 10 to HISD Design and Construction Standards Version 2.0
Revision date: February 5, 2010

- General Special instructions for reprinting Section VI: Due to revisions in Section VI, content has shifted beginning at page 28. For duplex printing, select pages 27 through the end of the document.
- Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #10.
- Section II None.
- Section III None.
- Section IV None.
- Section V None.
- Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 11 61 43 Stage Curtains and 23 09 00 Instrumentation and Controls for HVAC.
- Page 28, 11 61 43 Stage Curtains: all references to flameproofed fabric have changed to be inherently flame retardant and the fabric style names have been revised.
- Page 42, Section 23 09 00 Instrumentation and Controls for HVAC has been revised. Refer to Attachment #1 at the end of the document.

Summary of Revision 12 to HISD Design and Construction Standards Version 2.0
Revision date: March 22, 2010

- General All HISD logos have been replaced with the HISD seal.
- Special instructions for reprinting Section VI: Due to revisions in Section VI, content has shifted. For duplex printing, select pages 25-54, 69-70, and 78-238.
- Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #12.
- Section II Page 18, floor plan: Add one (1) Student Cubby, Casework Type G. Refer to drawing for additional information.
- Page 22, floor plan: Add one (1) Student Cubby, Casework Type G. Refer to drawing for additional information.
- Page 34, floor plan: low wall height should be 2'-6" AFF. Refer to drawing for additional information.
- Section III None.
- Section IV None.
- Section V None.
- Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 10 28 00 Toilet Accessories, 22 05 00 Common Work Results for Plumbing, 23 05 00 Common Work Results for HVAC, 23 09 00 Instrumentation and Controls for HVAC, 26 05 00 Common Work Results for Electrical, 23 65 00 Cooling Towers, 27 51 00 Intercom System.
- Page 27, Section 10 28 00 Toilet Accessories: Item D.1A., provide B-2860 in lieu of B-262. Add item D.1.B., Bobrick B-3961 Paper Towel Dispenser/Disposal to be used at Staff and Unisex Restrooms. Item D.2., toilet tissue dispensers, revised to Bobrick B-2982. Item D.4., grab bars, revised to Bobrick B-6806.
- Page 33, Section 22 05 00 Common Work Results for Plumbing: Table V.C.1, water temperature at Special Ed, Pre-K, K and Art/Science Classrooms revised to Cold Water. Item 14, revised. Cold water only at all classrooms (**subject to compliance with local codes).
- Pages 37 and 38, Section 23 05 00 Common Work Results for HVAC: Variable frequency drives are *required* on chiller primary pumps and cooling tower pumps.

Pages 57-58, Section 26 05 00 Common Work Results for Electrical: Item 17d revised. Added item 17e: High output, T8 2-lamp systems are allowed.

Page 69, Section 27 51 00 Intercom System: Telecor is an acceptable manufacturer.

Attachment #1, Section 23 09 00 Instrumentation and Controls for HVAC: This document was revised December 3, 2009. (*) Denotes where a revision has been made. A Word file of this document is available upon request.

Section 1.8B, Fort Bend Mechanical – Carrier is an approved vendor. This change was previously issued as Revision #11, dated February 18, 2010.

Summary of Revision 14 to HISD Design and Construction Standards Version 2.0
Revision date: May 21, 2010

General Reminder: The standards are now broken into sections with a separate tab for each section to allow for faster downloads. Click on <http://www.pbk.com/HISD/index.html>

The 2010 Foodservice TN Book has been added to the website. Click on the Sections tab.

Special instructions for reprinting Section VI: Due to revisions in Section VI, content has shifted starting at page 29. For duplex printing select pages 15-18 and 29-78.

Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #14.

Section II Page 3, item number 27, add Walk off mats, non recessed, roll carpet type.

Page 6, item 22, the requirements for drain inlet covers grates have been revised. Refer to 33 40 00 Storm Drainage Utilities in Section VI for additional information.

General, all floor plans: Revise keynote 10 to read: Power for interactive board (NIC) at 102" AFF. Cable from TWS (teacher workstation) to AV2 to be routed above ceiling. Cable distance shall not exceed 35'. Revise keynote 11 to read: Interactive Board (NIC).

Pages 11, 15-16, 18, 22, 25, 65, 87, and 89 floor plans: Revise IB symbol to AV2.

Page 19, typical classroom reflected ceiling plan: Clarification, if pursuing optional LEED EQ CR 6.1 Lighting System Design and Controllability, the A/E shall refer to the LEED criteria and perform adequate analysis to determine how to meet the required lighting levels indicated in the LEED criteria. Independent of LEED, the minimum requirements are shown in the drawing. Individual lamps within a single fixture shall not be placed on separate circuits.

Page 20, alternate classroom reflected ceiling plan: Clarification, the alternate lighting scheme may be considered for optional LEED EQ CR 6.1 Lighting System Design and Controllability with approval of the HISD Project Manager. The A/E shall refer to the LEED criteria and perform adequate analysis to determine how to meet the required lighting levels indicated in the LEED criteria. Refer to Section VI, 26 05 00 Common Work Results for Electrical for additional information. Fixtures shall utilize the same lamps as the 2' x 4' fixtures used elsewhere in the building.

Page 34, floor plan: low wall height should be 2'-6" AFF. This change was originally issued in Revision #12.

Page 52, floor plan: conduit for the reception desk and student computer workstations shall be routed under slab to the nearest wall. Two (2) 1" conduits should be provided at the computer workstations. Refer to the drawing for additional information.

Page 103, data sheet: under Architectural General, add Walk off mats, non recessed, roll type (OFCI). Under general note 3) add: When optional Terrazzo or polished concrete flooring (also under consideration) is used, the base should be compatible with the selected floor finish. A stone or ceramic tile base may be appropriate, however the Architect should review options with the HISD Project Manager.

Pages 109 and 111, data sheet, revise floor finish to sealed concrete.

Section III None.

Section IV None.

Section V Page 35, Communication Outlet Elevations, note to run conduit under slab revised. Refer to drawing for additional information.

Page 36, Communication Outlet Elevations, revise dimension to 102" A.F.F.

Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 07 52 00 Low Sloped Two-Ply Modified Bitumen Roofing System, 10 40 00 Electronic Marquee Signs, 11 68 13 Playground Equipment, 26 05 00 Common Work Results for Electrical, 27 13 00 Communication Support Systems, and 33 40 00 Storm Drainage Utilities.

Page 15, Section 07 52 00 Low Sloped Two-Ply Modified Bitumen Roofing System: Revise Solar Reflectance index (SRI) to 0.78 (for applicable LEED credit).

Page 16, Item C.1-2, delete all references to APP.

Page 17, Add item D which reads: A multi-ply thermoplastic fleece back roof system may be considered for re-roofing an existing coal tar roof when tapered insulation is not feasible due to low perimeter edges or other project constraints as recommended by the A/E team and with written approval from the HISD Project Manager.

Page 27, Section 10 40 00 Electronic Marquee Signs: Miscellaneous revisions including, revised model number, text size shall be 9"-10" and a minimum of 3 lines of text are required. Refer to Section VI for additional information.

Pages 29-30, Section 11 68 13 Playground Equipment: Line item A, delete the first sentence. The \$75,000 allowance is no longer applicable. Added line items C-H which describe specific equipment to be incorporated in the bid documents.

Page 59, 26 05 00 Common Work Results for Electrical, item d revised to clarify that direct/indirect pendants shall only be considered with approval of the HISD Project Manager.

Page 69, 27 13 00 Communications Support Systems, item A.1.d. delete the word "trapeze" and add inverted "T".

Page 78, Section 33 40 00 Storm Drainage Utilities, add item C which includes model numbers for inlet grates appropriate for schools. Refer to Section VI for additional information.

Summary of Revision #**14R2** to HISD Design and Construction Standards Version 2.0
Revision date: July 6, 2010 (*Revision 14 issued May 21, 2010, Revision 14R issued via email, June 9, 2010*)

General Reminder: The standards are now broken into sections with a separate tab for each section to allow for faster downloads. Click on <http://www.pbk.com/HISD/index.html>

Changes in Revision 14R2 supersede changes in Revision 14 and 14R.

Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #14R2.

Section II General, all floor plans: Revise keynote 10 to read: Power for interactive board (NIC) at 102” AFF. Cable from TWS (teacher workstation) to AV2 to be routed above ceiling. Cable distance shall not exceed 35’. Refer to Communication Outlet Elevations. Revise keynote 11 to read: Interactive Board (NIC).

Pages 11, 15-16, 18, 22, 25, 65, 87, and 89 floor plans: Revise IB symbol to AV2. Add USB symbol. Add note indicating that the Interactive Board is sensitive to vibrations. Mechanical equipment should not be located above it or on the wall near it and do not locate the interactive board on any wall adjacent to a mechanical room. Refer to drawings for additional information.

Section III None.

Section IV None.

Section V Page 36, Communication Outlet Elevations, AV2 revised to include USB faceplate. Refer to drawing for additional information.

Section VI None.

Summary of Revision #15 to HISD Design and Construction Standards Version 2.0
Revision date: July 16, 2010

- General Reminder: The standards are now broken into sections with a separate tab for each section to allow for faster downloads. Click on <http://www.pbk.com/HISD/index.html>
- Special instructions for reprinting Section V: Due to revisions in Section V, content has shifted. For duplex printing, select page 35-end of document.
- Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #15.
- Page 6, Building Exterior Requirements, clarification: item 5 pertains to exterior windows. Refer to page 8 for interior windows.
- Page 8, Building Interior Requirements, clarification: item 4, interior glazing shall meet code requirements. Architect to verify requirements.
- Page 20, Design and Construction Standards A/E Verification Documentation: Added a clause to indicate that the A/Es are responsible for reviewing all revisions to the Standards.
- Added 'date' next to the A/E signature, and the history of all revisions included at the bottom of the page.
- Section II General, floor plan drawings: keynote 10 revised in Revision 14R2. Update drawings affected by this change will be uploaded at a future date.
- Floor plan, p. 52, data sheet, p. 56: Ceiling mounted projectors AND projector mounts are Owner Furnished and Owner Installed (OFCI). The A/E shall verify if additional support/blocking required for mounting brackets and coordinate the locations on the drawings. Updated drawings and/or data sheets will be uploaded at a future date.
- Section III None.
- Section IV None.
- Section V Signage Types, added Site Signage Details (p. 35-36). A graphic example was issued as Revision #13 via email May 20, 2010.
- Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 08 88 00 Glazing and 23 09 00 Instrumentation and Control for HVAC.

Page 21, Section 08 88 00 Glazing clarification: Item A.2, applies to exterior glazing only. Add item A.3 – Interior glazing shall meet code, i.e. tempered or wire/fire. Architect to verify requirements.

Attachment #1, 23 09 00 Instrumentation and Control for HVAC, Table of Contents (page 1), add the following note: An editable electronic version of these specifications is available. Contact Elizabeth Garza at (egarz1@houstonisd.org).

Summary of Revision #16 to HISD Design and Construction Standards Version 2.0
Revision date: September 3, 2010

- General Reminder: The standards are now broken into sections with a separate tab for each section to allow for faster downloads. Click on <http://www.pbk.com/HISD/index.html>
- Section I Page 1, Table of Contents, revision tracking date revised for sections affected by Revision #16.
- The Board member page has been updated with the current 2010 board.
- Section II General, at all classrooms, the outlet for the future smartboards (keynote 10) should be quad outlet. This change is driven by power requirements for new smartboards (NIC) being provided.
- General, Pages 11, 15-16, 18, 22, 25, and 87, Floor Plans: Delete one quad and one D4 shown along the wall with the 12' markerboard. Refer to drawings for additional information.
- Page 14, Data Sheet, General Notes: revised note 3) to clarify that there should be 2 sinks at shared casework (Option A) and that bubblers at casework should be easily accessible to small children. Refer to Section V Casework Types for heights.
- Pages 15-16, Floor Plans, add note: Bubblers should be easily accessible to small children. Re: Section V Casework Types for heights.
- Section III None.
- Section IV None.
- Section V Page 7, Casework Type E and E2, revised heights. Refer to drawing for additional information.
- Section VI Pages 1-9, Table of Contents: added revision date for the sections that have been revised: 22 05 00 Common Work Results for Plumbing, 22 30 00 Plumbing Equipment, 22 40 00 Plumbing Fixtures.
- Page 1, Table of Contents: the correct email address for Elizabeth Garza is: egarza1@houstonisd.org.
- Page 35, 22 05 00 Common Work Results for Plumbing, item E.1.d: Thermostatic Mixing Valves; delete Leonard and add Symmons.
- Page 36, 22 30 00 Plumbing Equipment, item E.1 Water Heaters; delete Sellers and Patterson Kelley, and add State.

Page 36, 22 40 00 Plumbing Fixtures, item A.1. Acceptable Manufacturers; delete Eljer.

Page 37, 22 40 00 Plumbing Fixtures, item E Mop Sinks; delete Eljer. Item F Shower Valves; delete Temptrol. Item H Flush Valves; delete Royal. Item I Drinking Fountains; add Sunroc.

Page 53, 23 81 00 Decentralized Unitary HVAC Equipment, Item C.1 Acceptable Manufacturers: add Valent.

Page 54, 23 82 00 Heating and Cooling Units, Revise Item B.2 to read: Temperature control shall be with face and bypass damper. The current item B.2 will become item B.3 Acceptable Manufacturers and add Johnson Controls to the list of acceptable manufacturers.

Attachment #1, Page 1, Table of Contents: the correct email address for Elizabeth Garza is: egarzal@houstonisd.org.