MORE THAN ARCHITECTS

ADDENDUM

NO. 3

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: Lehman High School 2025 Additions and Renovations

CLIENT NAME: Hays CISD

LOCATION: KYLE, TX

PROJECT NUMBER: 1954-08-01

PROPOSAL DATE: 20 May, 2025

ADDENDUM DATE: 14 May, 2025

For additional information regarding this project, contact Gigi Morgan at 800.687.1229.

05.14.25

THIS ADDENDUM INCLUDES:

Civil Items	11 Pages
Sports Items	2 Pages
Structural Items	30 Pages
Architectural Items	3 Pages
Plumbing Items	6 Pages
Mechanical Items	4 Pages
Electrical Items	13 Pages
Technology Items	1 Page

AND ALL ATTACHED REVISED SPECIFICATION & DRAWING REFERENCES IN THE ADDENDUM

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Project Name: Lehman High School 2025 Additions and Renovations
Client: Hays CISD
Kyle, TX
Project Number: 1954-08-01

CIVIL ITEMS FOR ADDENDUM NO. 3

NOTICE TO PROPOSERS:

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REFERENCE IS MADE TO THE DRAWINGS AS NOTED:

DRAWINGS:

AD No 3, Civil Item 1: **To the Drawings, Sheet C2.00, "DEMOLITION PLAN (SHEET 1 OF 2),"**
1) Reroute of sanitary sewer line.

AD No 3, Civil Item 2: **To the Drawings, Sheet C2.01, "DEMOLITION PLAN (SHEET 1 OF 2),"**
1) Reroute of storm line.

AD No 3, Civil Item 3: **To the Drawings, Sheet C4.01, "DIMENSION CONTROL PLAN (1 OF 2),"**
1) Adjustment of MAC footprint and ramps.

AD No 3, Civil Item 4: **To the Drawings, Sheet C5.01, "PAVING PLAN,"**
1) Adjustment of MAC footprint and ramps.

AD No 3, Civil Item 5: **To the Drawings, Sheet C6.01, "GRADING PLAN (1 OF 2),"**
1) Adjustment of MAC footprint and ramps.

AD No 3, Civil Item 6: **To the Drawings, Sheet C7.01, "UTILITY PLAN (1 OF 2),"**
1) Addition of gas connection to weightroom.

AD No 3, Civil Item 7: **To the Drawings, Sheet C7.02, "UTILITY PLAN (2 OF 2),"**
1) Addition of utility vault.
2) Storm line slope adjustment.

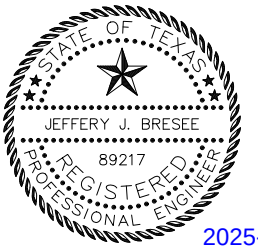
AD No 3, Civil Item 8: **To the Drawings, Sheet C8.01, "STORM PLAN (1 OF 2),"**
1) Addition of storm lines to areaways.

AD No 3, Civil Item 9: **To the Drawings, Sheet C8.02, "STORM PLAN (2 OF 2),"**

1) Addition of storm lines to utility vaults.
2) Modification of existing storm line.

END OF CIVIL ADDENDUM

Project Name: Lehman High School 2025 Additions
Client: Hays CISD
Kyle, TX
Project Number: 1954-08-01



2025-05-14

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SPORTS ITEMS FOR ADDENDUM NO. 3

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 1, Sports Item 1: **To the Drawings, Sheet F1**

1) Tension netting behind football goal posts have been adjusted to be 100 ft long.
2) Added note 70FF to the sheet and labeled it at all four soccer field corners.
3) Added note 70GG to the sheet and labeled it at all four soccer field corners

END OF SPORTS ADDENDUM

Project Name: Lehman High School 2025 Additions and Renovations
Client: Hays CISD
Kyle, TX
Project Number: 1954-08-01

STRUCTURAL ITEMS FOR ADDENDUM NO. 3

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 3, Struct Item 1: **To the Drawings, Sheet S1.1, "GENERAL NOTES",**
1) Added note 3.3.1g for exposed polished concrete slabs
2) Added 3.4.2, composite slab type CB for exposed polished concrete slabs
3) Added 6.1.1, delegated design for mudskipper system

AD No 3, Struct Item 2: **To the Drawings, Sheet SD2.1C3, "ROOF DEMOLITION PLAN – AREA C",**
1)

AD No 3, Struct Item 3: **To the Drawings, Sheet S2.1A1, "FOUNDATION PLAN – AREA A",**
1) Revised dimensions

AD No 3, Struct Item 4: **To the Drawings, Sheet S2.1A2, "ROOF FRAMING PLAN – AREA A",**
1) Revised dimensions

AD No 3, Struct Item 5: **To the Drawings, Sheet S2.1B1, "FOUNDATION PLAN – AREA B",**
1) Revised pier sizes where shown
2) Added piping coordination notes where shown
3) Added suspending piping detail reference where shown for mudskipper system

AD No 3, Struct Item 6: **To the Drawings, Sheet S2.1C1, "FOUNDATION PLAN – AREA C",**
1) Updated dimensions where shown
2) Updated modeling of channels (spacing)

AD No 3, Struct Item 7: **To the Drawings, Sheet S2.1C2, "LEVEL 2 FRAMING PLAN – AREA C",**
1) Update beam sizes where shown.
2) Revised dimensions where shown.
3) Revised stud count where shown.
4) Updated HSS girt sizes where shown.
5) Revised slab type for exposed, polished concrete slabs

AD No 3, Struct Item 8: **To the Drawings, Sheet S2.1C3, "ROOF FRAMING PLAN – AREA C",**
1) Revised dimensions where shown
2) Added details and elevations where shown

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3) Revised TOS elevations where shown
4) Revised beam sizes where shown
5) Added grids where shown.

AD No 3, Struct Item 9: **To the Drawings, Sheet S2.1D1, "FOUNDATION PLAN – AREA D",**
1) Channels shown on foundation level.
2) Added vault, piers, detail reference, and dimensions for suspended plumbing transition.
3) Added and revised dimensions for clarity.

AD No 3, Struct Item 10: **To the Drawings, Sheet S2.1D2, "ROOF FRAMING PLAN – AREA D",**
1) Cantilevered tube added at D14/DE.
2) Cantilevered beam added at D14/DH.
3) Removed note regarding EJ size that conflicted with dimensions and model.
4) Added and revised dimensions for clarity.

AD No 3, Struct Item 11: **To the Drawings, Sheet S2.1E1, "FOUNDATION PLAN – AREA E",**
1) Revised foundation to concrete flat slab in lieu of composite slab supported by steel beams and girders.
2) Added cast-in-place concrete beam where shown.
3) Revised pier sizes
4) Revised perimeter detailing for slab type

AD No 3, Struct Item 12: **To the Drawings, Sheet S3.1, "TYPICAL CONCRETE DETAILS",**
1) Added detail 22.

AD No 3, Struct Item 13: **To the Drawings, Sheet S3.3, "CONCRETE DETAILS",**
1) Detail 8, 12, 16 – Revised reinforcing
2) Detail 21 – Added EJ cover and revised reinforcing

AD No 3, Struct Item 14: **To the Drawings, Sheet S3.4, "CONCRETE DETAILS",**
1) Detail 11, 12, 16 – New details
2) Detail 8, 20 – Revised grade beam depth and reinforcement

AD No 3, Struct Item 15: **To the Drawings, Sheet S3.5, "CONCRETE DETAILS",**
1) Detail 9 – Revised.
2) Detail 24 – Revised detail for flat slab at crawlspace

AD No 3, Struct Item 16: **To the Drawings, Sheet S3.6, "CONCRETE DETAILS",**
1) Detail 4, 8, 9, 12, 14, 16, 20, 23, 24 – Revised detail for flat slab at crawlspace
2) Detail 2, 3, 6, 10, 21 – New detail for flat slab at crawlspace
3) Detail 5, 22, 14 – added note for brace reinforcement

AD No 3, Struct Item 17: **To the Drawings, Sheet S3.7, "CONCRETE DETAILS",**
1) Detail 1, 2, 4, 14 – Revised detail for suspended piping supported by flat slab in lieu of composite slab and steel beam crawlspace
2) Detail 22 – Revised detail for flat slab at crawlspace
3) Detail 24 – New detail for flat slab at crawlspace
4) Detail 15, 16, 20 – New detail for mudskipper system

AD No 3, Struct Item 18: **To the Drawings, Sheet S3.8E, "SLAB REINFORCING PLAN – AREA E",**
1) New sheet for slab reinforcing in area E.

AD No 3, Struct Item 19: **To the Drawings, Sheet S4.2, "MASONRY DETAILS",**
1) Details 3 and 4 – Revised masonry details

AD No 3, Struct Item 20: **To the Drawings, Sheet S4.3, "MASONRY WALL ELEVATIONS",**
1) Elevation 21 – Dimensions revised

AD No 3, Struct Item 21: **To the Drawings, Sheet S4.7, "MASONRY WALL ELEVATIONS",**
1) Phase 3 – Revised notes.

AD No 3, Struct Item 22: **To the Drawings, Sheet S5.3, "TYPICAL STEEL DETAILS",**
1) Detail 14 – New detail for wide flange beam in a joist bay

AD No 3, Struct Item 23: **To the Drawings, Sheet S5.4, "STEEL DETAILS",**
1) Detail 17, 18, 19, 20 – Revised details as shown

AD No 3, Struct Item 24: **To the Drawings, Sheet S5.5, "STEEL DETAILS",**
1) Details 14, 15, 16, 20 – Revised details where shown
2) Detail 9 – New detail

AD No 3, Struct Item 25: **To the Drawings, Sheet S5.6, "STEEL DETAILS",**
1) Details 21, 22 – Revised details where shown

AD No 3, Struct Item 26: **To the Drawings, Sheet S5.7, "STEEL DETAILS",**
1) Detail 1 – New detail
2) Detail 2 – New detail

AD No 3, Struct Item 27: **To the Drawings, Sheet S6.1, "BRACING ELEVATIONS AND DETAILS",**
1) Elevation 9, 10, 13, 14, 17, 18 – Revised elevation where shown
2) Detail 16 – Revised detail as shown

END OF STRUCTURAL ADDENDUM

Project Name: Lehman High School 2025 Additions and Renovations
Client: Hays CISD
Kyle, TX
Project Number: 1954-08-01

ARCHITECTURAL ITEMS FOR ADDENDUM NO. 3

05.14.25

NOTICE TO PROPOSERS:

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 1, Arch Item 1: **To the Drawings, Sheet G3.01, "INTERIOR PARTITION, EXTERIOR WALL & ROOF TYPES,"**

1) Updated roofing to be Mod-Bit
2) Updated exterior walls to include W206 for exterior dining column wraps
3) Updated exterior wall type W108

AD No 1, Arch Item 2: **To the Drawings, Sheet A2.1E1, "REFLECTED CEILING PLAN – AREA E"**

1) Changed restroom exhaust fan quantity and locations.

AD No 1, Arch Item 3: **To the Drawings, Move Partial Sheet AS1.2 Addendum 2 (2-20-24) For LHS 2023, "SITE DETAILS,"**

1) Include in scope drawing 7 & 8 AS1.02 from LHS 2023 Addendum 2 (move from 2023 project to 2025 project.)

END OF ARCHITECTURAL ADDENDUM

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Project Name: Lehman High School 2025 Additions and Renovations
Client: Hays CISD
Kyle, TX
Project Number: 1954-08-01

05/14/2025

PLUMBING ITEMS FOR ADDENDUM NO. 3

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 3, Plumb Item 1: **To the Drawings, Sheet P0.01, "Notes and Legends - Plumbing,"**

1) Removed Note "Q" (Compressed Air) and "R" (Water Conditioning) from Plumbing General Notes.

AD No 3, Plumb Item 2: **To the Drawings, Sheet P0.10, "Schedules - Plumbing,"**

2) Revised floor sink "FS2" to have "hinged" full grate.

AD No 3, Plumb Item 3: **To the Drawings, Sheet P2.01B1, "First Floor Plan - Area B - Plumbing - Waste,"**

3) Added verbiage to mudskipper box note about contacting mudskipper for drawings.

AD No 3, Plumb Item 4: **To the Drawings, Sheet P2.01C1, "First Floor Plan - Area C - Plumbing - Waste,"**

4) Added verbiage to mudskipper box note about contacting mudskipper for drawings.

AD No 3, Plumb Item 5: **To the Drawings, Sheet P2.01D1, "First Floor Plan - Area D - Plumbing - Waste,"**

5) Roof drains 'RD1' and 'RD2' were not showing up by Table Storage D102. These are now visible.
6) Existing 3" grease waste to be replaced under new addition was added.
7) Added "mudskipper" note to sheet and noted vault for flexible connection at kitchen addition.

END OF PLUMBING ADDENDUM

Huckabee

Project Name: Lehman High School 2025 Additions and Renovations
Client: Hays CISD
Kyle, TX
Project Number: 1954-08-01

MECHANICAL ITEMS FOR ADDENDUM NO. 3

05/14/2025

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 3, Mech Item 1: **To the Drawings, Sheet M1.11, "Details - Mechanical,"**

1) Added note to "Duct Drop Detail" for return elbow to be horizontal.

AD No 3, Mech Item 2: **To the Drawings, Sheet M2.01B1, "First Floor Plan - Area B - Mechanical,"**

2) Revised exhaust in Gang Restroom to have one exhaust register per stall.
3) Added keynote M41 about duct to crawl space.

AD No 3, Mech Item 3: **To the Drawings, Sheet M2.01E1, "First Floor Plan - Area E - Mechanical,"**

4) Added spiral duct detail to sheet. Supply grilles to be set at 30° below horizontal.
5) Revised exhaust in Gang Restroom to have one exhaust register per stall.

END OF MECHANICAL ADDENDUM

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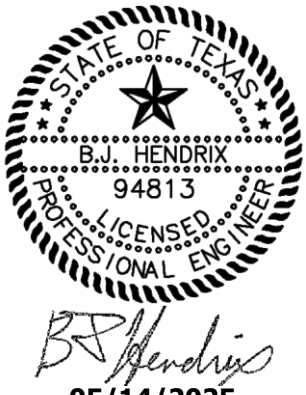
Client: Hays CISD
Kyle, TX
Project Number: 1954-08-01



05/14/2025

ELECTRICAL ITEMS FOR ADDENDUM NO. 3

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REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 3, Elec Item 1: **To the Drawings, Sheet E0.01 "SCHEDULES, NOTES, AND LEGENDS - ELECTRICAL"**
1) Added scope for owner requested air purifiers.
2) Added General Note II per owner request.

AD No 3, Elec Item 2: **To the Drawings, Sheet E0.10, "SCHEDULES - ELECTRICAL,"**
1) Added missing disconnects to schedule.
2) Added clarification regarding power pack installation location.

AD No 3, Elec Item 3: **To the Drawings, Sheet E0.11, "RISER DIAGRAMS - ELECTRICAL,"**
1) Added Keynote 6 to feeders for Panel 'HDP'.

AD No 3, Elec Item 4: **To the Drawings, Sheet E0.13, "PANEL SCHEDULES - ELECTRICAL,"**
1) Revised Panel 'LMAC" for sports netting power.

AD No 3, Elec Item 5: **To the Drawings, Sheet E3.01A1, "FIRST FLOOR PLAN - AREA A - POWER,"**
1) Added power for sports netting equipment.

AD No 3, Elec Item 6: **To the Drawings, Sheet E3.01B1, "FIRST FLOOR PLAN - AREA B - POWER,"**
1) Added power for air purifiers as shown.

AD No 3, Elec Item 7: **To the Drawings, Sheet E3.01C1, "FIRST FLOOR PLAN - AREA C - POWER,"**
1) Added power for air purifiers as shown.

AD No 3, Elec Item 8: **To the Drawings, Sheet E3.01E1, "FIRST FLOOR PLAN - AREA E - POWER,"**
1) Expanded note regarding IDF room rough-in as shown per owner request.

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AD No 3, Elec Item 9: **To the Drawings, Sheet E3.02C2, "SECOND FLOOR PLAN - AREA C - POWER,"**

1) Added power for air purifiers as shown.

AD No 3, Elec Item 10: **To the Drawings, Sheet E4.01D, "ROOF PLAN - AREA D - POWER,"**

1) Added missing disconnect at Transformer 'T/LK'.

AD No 3, Elec Item 11: **To the Drawings, Sheet ES1.00, "SITE PLAN - ELECTRICAL,"**

1) Added clarification to keynote S3.
2) Provided location of existing electrical rooms where connections are to be made.
3) Expanded site circuiting note to include owner requirement for warning tape with all buried conduit.

END OF ELECTRICAL ADDENDUM

Technology & Security Narrative

Hays Lehman HS 2025 Additions and Renovations Addendum #3 for Hays CISD

May 14, 2025

Special Space A/V Systems

The multipurpose activity center AV system will be modified to utilize Community R.5-96MAX speakers on the columns at middle of endzone, 17yds, 39yds, 39yds, 17yds, and middle of endzone in lieu of the shown QSC speakers. Wall box at field shall be OWB-X3-SM-GNG mounted at 36” AFF on center. Speakers shall all be mounted at 15’.

ROOF TYPE TAGS

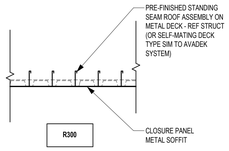
R100
ROOF ASSEMBLY IN SECTION VIEW

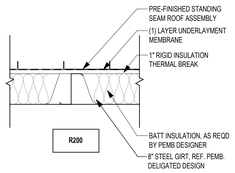
LETTER INDICATES TYPE

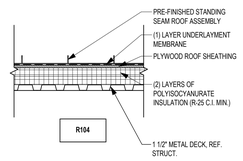
NUMBER INDICATES CONSTRUCTION AS FOLLOWS:

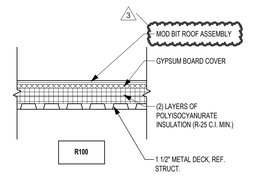
R100 - MOD. BIT., INSUL. 1 1/2" MTL. DECK
R104 - STANDING SEAM, INSUL., 1 1/2" MTL. DECK
R200 - PRE-ENGINEERED METAL BUILDING ROOF BY DELEGATED DESIGN
R300 - STANDING SEAM, 1 1/2" MTL. DECK, CLOSURE TRIM (AREA D WALKWAY COVER) (OR SELF-MATING DECK TYPE PER MFR)

ROOF TYPE LEGEND









PARTITION TYPE TAGS

A3 | D
WALL ASSEMBLY IN PLAN VIEW

LETTERS TO THE RIGHT INDICATE PARTITION HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.

- D — WALL TO **D**ECK / STRUCTURE
- C — WALL TO 6" (MIN.) ABOVE **C**EILING
- FR — **F**IRE **R**ATED WALL TO DECK / STRUCTURE
- AD — **A**COUSTICAL WALL TO **D**ECK / STRUCTURE
- AC — **A**COUSTICAL WALL TO 6" (MIN.) ABOVE **C**EILING
- AR — **A**COUSTICAL **R**ATED WALL TO DECK / STRUCTURE
- GD — GYP WALL ABOVE TO **D**ECK / STRUCTURE
- SR — **S**MOKE **R**ESISTANT PARTITION

LETTER & NUMBER TO THE LEFT INDICATE PARTITION TYPE & STUD OR CMU SIZE AS FOLLOWS:

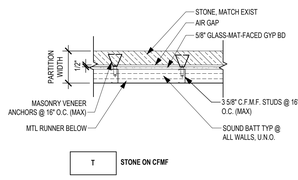
1 - 7/8" HAT CHANNEL
2 - 1 5/8" CFMF
3 - 2 1/2" CFMF
4 - 3 5/8" CFMF OR CMU
6 - 6" CFMF OR 5 5/8" CMU OR 8" CORE ICF
8 - 8" CFMF OR 7 5/8" CMU OR 8" CORE ICF
10 - 9 5/8" CMU OR 10" CORE ICF
12 - 11 5/8" CMU OR 12" CORE ICF

WALL / PARTITION NOTES:

1. ALL INTERIOR WALL/PARTITIONS NOT OTHERWISE DESCRIBED BY A WALL SECTION ARE IDENTIFIED BY A SYMBOL WITH AN ALPHA/NUMERIC CODE INDICATING MATERIALS (BY LETTER), NOMINAL THICKNESS OF STRUCTURE (BY NUMBER) AND AN ALPHA/NUMERIC CODE REPRESENTING HEIGHT, FIRE RATING AND ACOUSTICAL PROPERTIES.
2. **UNTAGGED WALL/PARTITIONS AND COLUMN FURRINGS** SHALL BE ASSUMED TO BE **"TYPICAL"**, AS FOLLOWS, FOR BIDDING PURPOSES:
   GYP BOARD (EXTENDS TO 6" ABOVE CEILING U.N.O.)
   WALLS/PARTITIONS - TYPE **H4**, ACOUSTICAL
   COLUMN FURRING - **M4**, NON-ACOUSTICAL
   MASONRY (EXTENDS TO 4" ABOVE CEILING OR TO NEAREST 8" COURSING ABOVE 4" U.N.O.)
   WALLS/PARTITIONS - TYPE **A8**, NON-ACOUSTICAL
   COLUMN FURRING - TYPE **A6**, NON-ACOUSTICAL
   ANY UNTAGGED PARTITIONS WHICH APPEAR INCONSISTENT WITH THE DESCRIPTIONS ABOVE SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO BIDDING.
3. WALL TYPES IDENTIFIED AS CMU MAY INCLUDE ACMU. FLOOR PLAN HATCH PATTERNS WILL DIFFERENTIATE REGULAR SMOOTH FACE CMU FROM ARCHITECTURAL CMU. FINISH PLANS AND SCHEDULES WILL IDENTIFY ACMU SELECTIONS (GROUND FACE, SPLIT FACE, ETC.) AND IDENTIFY WHICH SIDE OF A SINGLE WYTHE ACMU WALL IS THE FINISH SIDE.
4. WALL/PARTITION TYPES IDENTIFIED AS INCLUDING VENEER MAY INCLUDE BRICK, STONE, OR ACMU. FLOOR PLAN HATCH PATTERNS WILL DIFFERENTIATE REGULAR SMOOTH FACE CMU, BRICK, STONE, OR ARCHITECTURAL CMU. FINISH PLANS AND SCHEDULES WILL IDENTIFY ACMU SELECTIONS (GROUND FACE, SPLIT FACE, ETC.)
5. WALL/PARTITIONS INDICATED BY TAG "GYP WALL ABOVE TO DECK" SHALL BE CONSTRUCTED OF THE SPECIFIED WALL TYPE TO ONE FULL COURSE (MIN.) ABOVE THE CEILING, BRACED, AND AN H4 (OR M4) WALL/PARTITION (H6 OR M6 WHERE REQUIRED BY UNBRACED HEIGHT) SHALL BE BUILT FROM THE TOP OF WALL TO DECK. WALL/PARTITIONS INDICATED BY TAG "ACOUSTICAL GYP WALL ABOVE TO DECK" SHALL BE CONSTRUCTED OF THE SPECIFIED WALL TYPE TO A ONE FULL COURSE (MIN.) ABOVE THE CEILING, BRACED, AND AN H4 (OR M4) WALL/PARTITION (H6 OR M6 WHERE REQUIRED BY UNBRACED HEIGHT) WITH BATT INSULATION SHALL BE BUILT FROM THE TOP OF WALL TO DECK. WHERE INDICATED BY THE FIRE CODE PLAN TO BE FIRE RATED, ALL CONNECTIONS SHALL MEET RATING REQUIREMENTS.
6. FIRE-RATED WALL/PARTITIONS ARE INDICATED ON THE FIRE CODE PLANS ON THE G2 SHEETS. ALL GYP BOARD IN A RATED ASSEMBLY MUST BE 5/8" TYPE "X" AND CONSTRUCTION MUST MATCH THE ASSIGNED UL NUMBER. REFERENCE THE TYPE SCHEDULES ON THIS SHEET FOR UL NUMBERS WHERE APPLICABLE. SUBSTITUTE UL ASSEMBLIES MAY BE PRESENTED FOR THE CONSIDERATION OF THE ARCHITECT , BUT MUST NOT BE USED UNLESS APPROVED IN WRITING. PARTITIONS NOT IDENTIFIED AS RATED SHALL BE BUILT WITH STANDARD GYP BOARD.
7. WHERE FIRE-RATED MASONRY WALL/PARTITIONS ARE INDICATED TO EXTEND TO DECK, ANY VENEER OR ACMU MAY TERMINATE ABOVE CEILING LEVEL. THE CMU WALL/PARTITION SHALL EXTEND TO DECK WITH REGULAR CMU OF SAME THICKNESS AS THE CMU (OR ACMU) IN THE WALL ASSEMBLY.
8. ALL ACOUSTICAL GYP BD WALL/PARTITIONS REQUIRE HIGHER QUALITY CONSTRUCTION AND SHALL BE FULL HEIGHT SOUND ATTENUATING BATT INSULATION. IN ORDER TO ACHIEVE THE INDICATED STC RATING, ALL WALL/PARTITIONS ARE TO HAVE ALL PIN HOLES & VOIDS, PIPES, DUCTS, CONDUITS, ETC ACOUSTICALLY FILLED ON BOTH SIDES. ALL WALL BOXES ON BOTH SIDES OF WALL/PARTITION ARE TO HAVE ACOUSTICAL PUTTY PADS ON THE INTERIOR SIDE AS DETAILED. BOTH SIDES OF WALL/PARTITION SHALL BE SEALED TIGHT TO DECK AS DETAILED. THE FLOOR TRACK SHALL BE SET ON AN ACOUSTICAL ISOLATOR PAD.
9. ALL ACOUSTICAL CMU WALL/PARTITIONS REQUIRE A HIGHER QUALITY CONSTRUCTION, SHALL BE NORMAL WEIGHT CMU BLOCK, EXTEND TO DECK AND HAVE FULL HEAD JOINTS. ALL PENETRATIONS SHALL BE ACOUSTICALLY SEALED ON BOTH SIDES OF WALL. MORTAR JOINTS TO BE FILLED W/ NO PIN HOLES OR VOIDS. HEAD OF WALL SHALL BE SEALED TIGHT TO DECK AS DETAILED.
10. ALL COLD FORM METAL FRAMING ARE SUBJECT TO THE DESIGN OF A QUALIFIED STRUCTURAL ENGINEER. FINAL DETERMINATION OF GAUGE AND DIMENSIONS OF FRAMING WILL BE DETERMINED BY STRUCTURAL DESIGN ENGINEERS RECOMMENDATIONS WHICH WOULD SIGNIFICANTLY IMPACT WALL THICKNESS MUST BE COORDINATED WITH THE ARCHITECT FOR ALIGNMENT PRIOR TO CONSTRUCTION.
11. REFER TO TYPICAL INTERIOR WALL/PARTITION BRACING DETAILS FOR ADDITIONAL INFORMATION REGARDING FLOOR AND DECK CONNECTIONS. FIRE-RATED WALLS SHALL USE FIRE STOPPING SEALANTS OR ASSEMBLIES WHERE THE WALL/PARTITION ABUTS THE DECK, INCLUDING MINERAL WOOL INSULATION WHERE APPLICABLE. NON-RATED PARTITIONS SHALL USE ACOUSTICAL SEALANTS AND INSULATION WHERE THE WALL/PARTITION ABUTS THE DECK.
12. FOR ANY DISCREPANCY BETWEEN WALL/PARTITION TYPES AND WALL SECTIONS, WALL SECTION SHALL SUPERCEDE.
13. NOT ALL WALL/PARTITION TYPES SHOWN WILL BE USED IN EVERY PROJECT.

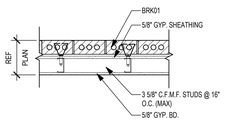
INTERIOR PARTITION TYPE LEGEND

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
T1	3 5/8"	8 3/8"	1-2 HR	REF IBC 721.1(2)	--	34



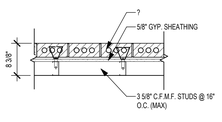
T — **STONE ON CFMF**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
Q4	3 5/8"	9"	-	-	40	44
Q6	6"	11 3/8"	-	-	40	44



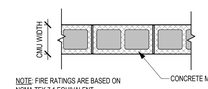
Q — **BRICK ON CFMF**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
P4	3 5/8"	8 3/8"	-	-	40	44



P — **BRICK ON CFMF**

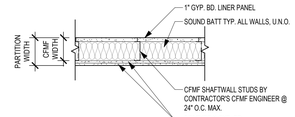
WALL TYPE	CMU WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
A6	5 5/8"	5 5/8"	1 HR	U906	45	50
A8	7 5/8"	7 5/8"	2 HR	U905	47	54
A10	9 5/8"	9 5/8"	2 HR	U905	50	57
A12	11 5/8"	11 5/8"	2 HR	U905	51	59



NOTE: FIRE RATINGS ARE BASED ON NCMA TEK 7.1 EQUIVALENT THICKNESS CALCULATIONS FOR LIGHT WEIGHT CMU OF EXPANDED CLAY, SHALE, OR SLATE.

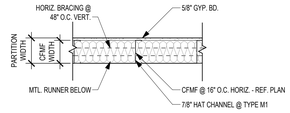
A — **SINGLE-WYTHE CMU**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
L3	2 1/2"	3 3/4"	2 HR	U415	40	51
L4	4"	5 1/4"	2 HR	U415	40	51
L6	6"	7 1/4"	2 HR	U415	40	51



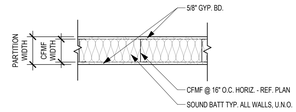
L — **GYP. BD. ON SHAFT LINER**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
M1	7/8"	1 1/2"	--		--	34
M2	1 5/8"	2 1/4"	--		--	34
M3	2 1/2"	3 1/8"	--		--	34
M4	3 5/8"	4 1/4"	--		--	34
M6	6"	6 5/8"	--		--	34



M — **GYP. BD. FURRING ON CFMF**

WALL TYPE	CFMF WIDTH	PARTITION WIDTH	FIRE RATING	UL LISTING	STC RATING: NO SOUND ATTENUATION	STC RATING: WITH SOUND ATTENUATION
H4	3 5/8"	4 7/8"	--	U419; U465	40	44
H4	3 5/8"	4 7/8"	1 HR	U419; U465	40	44
H6	6"	7 1/4"	--	U419; U465	40	44
H6	6"	7 1/4"	1 HR	U419; U465	40	44
H8	8"	9 1/4"	1 HR	U419; U465	40	44



H — **GYP. BD. ON CFMF**

EXTERIOR WALL TYPE TAGS

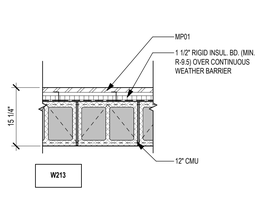
W200
WALL ASSEMBLY IN SECTION VIEW

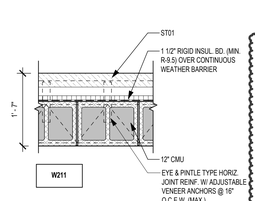
LETTER INDICATES EXTERIOR WALL

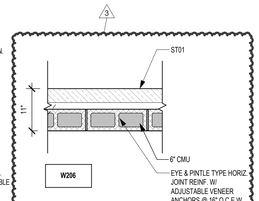
NUMBER INDICATES BACKUP CONSTRUCTION AS FOLLOWS:

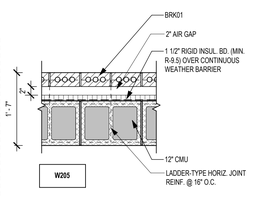
100 - CFMF
200 - CMU
300 - ICF
400 - STRUCTURAL CONC. PRECAST PANEL

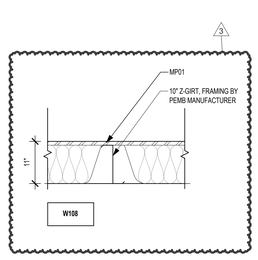
EXTERIOR WALL TYPE LEGEND

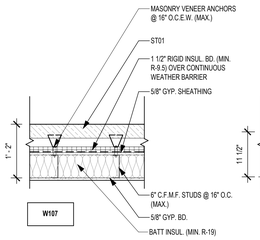


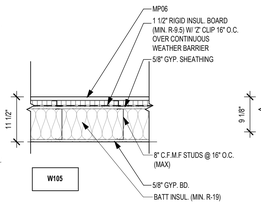


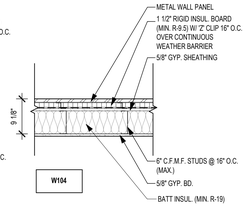


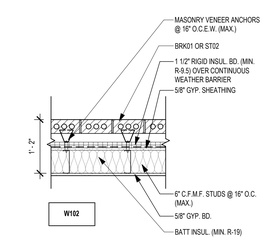


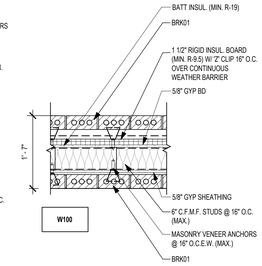












Date: 05/14/25
Revision / 3: ADDENDUM 03

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

DRAFT
COPY ONLY
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Jason Andrus
TX 19417

Huckabee
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INTERIOR PARTITION, EXTERIOR WALL & ROOF TYPES

PACKAGE — VOLUME

Job No. 01954-08-01
Sheet No. POST BID ADD 1 G3.01
Drawn By: VSS
Date: 05/27/2025

5/14/2025 9:52:01 AM
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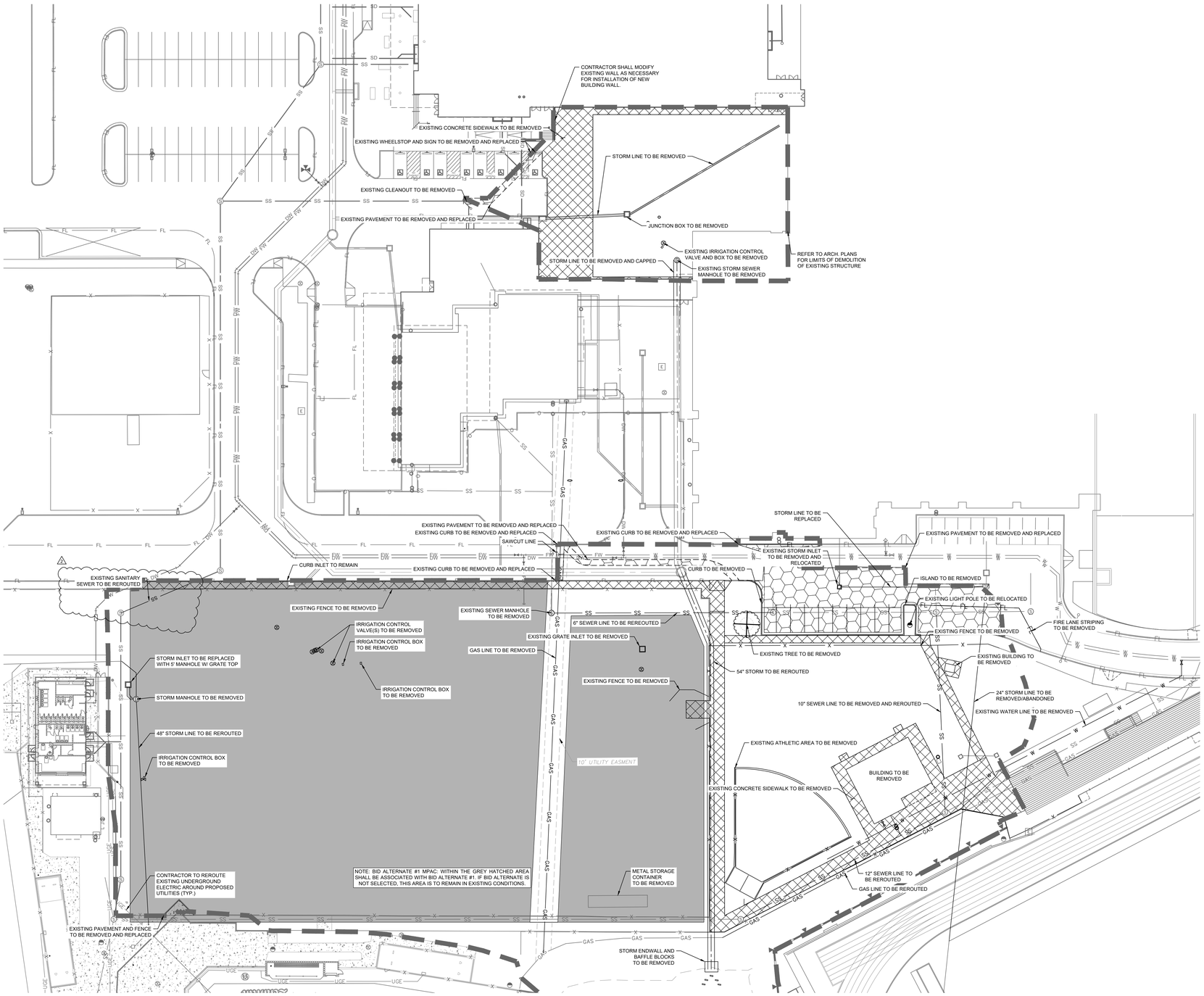

GRAPHIC SCALE IN FEET
0 15 30 60

REVISION	DATE	
1	05.09.25	ADDENDUM #1
2	05.13.25	ADDENDUM #3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS

Kimley»Horn
©2025 KIMLEY-HORN AND ASSOCIATES, INC.
TBPE FIRM NO. 928

STATE OF TEXAS
RICHARD J. UNDERWOOD
117843
REGISTERED
PROFESSIONAL ENGINEER
05/15/2025

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ADVISORY NOTES

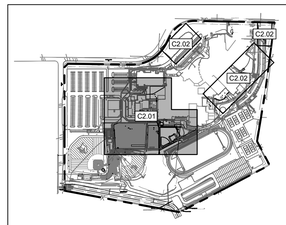
1. KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACTS THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE. KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING HIS OWN SITE RECONNAISSANCE TO SCOPE HIS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW ANY AVAILABLE REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN.
3. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
4. KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE.

BENCHMARK LIST

LCRA BENCHMARK PID NUMBER A490
NAVD 88 DATUM
ELEVATION: 633.05'

811 Know what's below. Call before you dig.

CAUTION!!!
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



KEY MAP
N.T.S.

DEMOLITION PLAN (1 OF 2)

PACKAGE	VOLUME
Job No. 018S4-08-01	Sheet No. ISSUE FOR BID
Drawn By: RAU	C2.01
Date: 05/15/2025	

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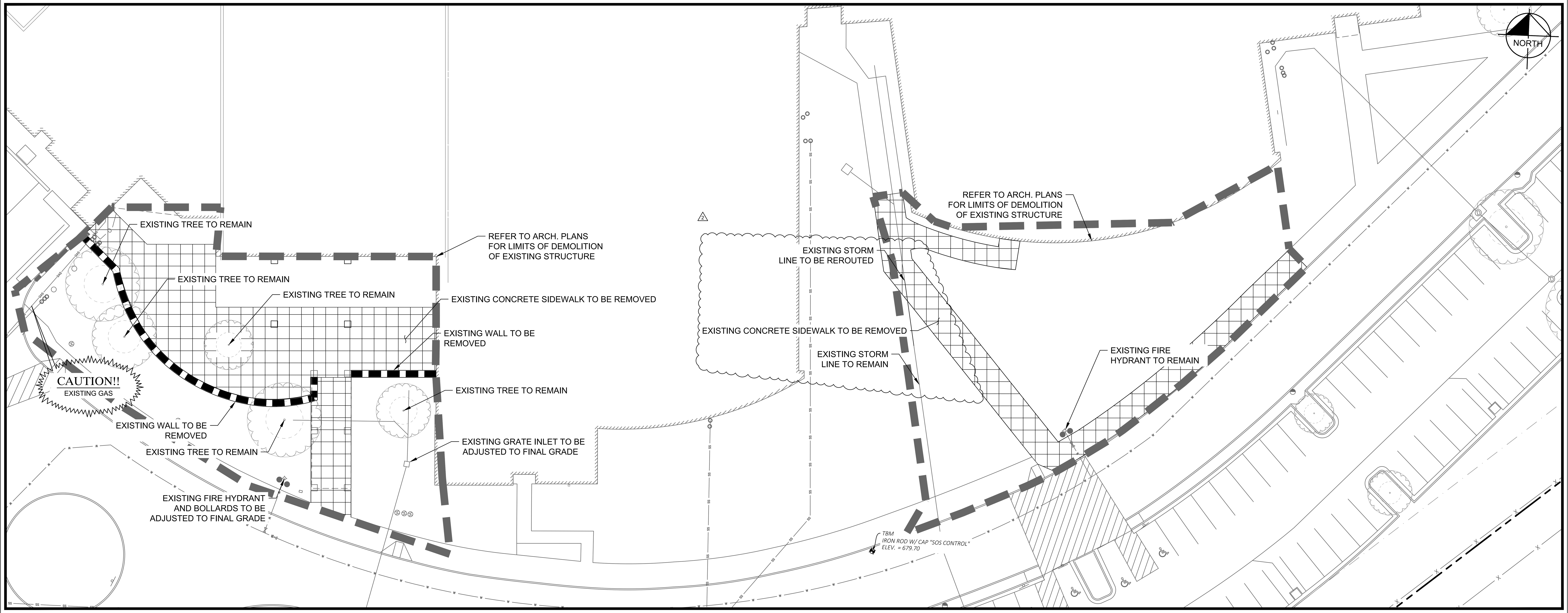


GRAPHIC SCALE IN FEET

0 10 20 40

LEGEND

— — – – — —	PROPERTY BOUNDARY
▬ ▬ ▬	PROPOSED LIMITS OF DISTURBANCE (APPROXIMATE)
	EXISTING EDGE OF ASPHALT
—OHE—	EXISTING OVERHEAD ELECTRIC TO REMAIN
—SS—	EXISTING SANITARY LINE TO REMAIN
—W—	EXISTING WATER LINE TO REMAIN
—GAS—	EXISTING GAS LINE TO REMAIN
—W—	WATER LINE TO BE REMOVED
—GAS—	GAS LINE TO BE REMOVED
	EXISTING CONCRETE SIDEWALK TO BE REMOVED
	EXISTING CONCRETE PAVEMENT TO BE REMOVED
	EXISTING CONCRETE PAVEMENT TO BE REMOVED
	EXISTING DIRT ROAD TO BE REMOVED
	BENCHMARK
	PROPERTY CORNER
	EXISTING SIGN
	EXISTING SANITARY SEWER MANHOLE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING GUY WIRE
	EXISTING POWER POLE

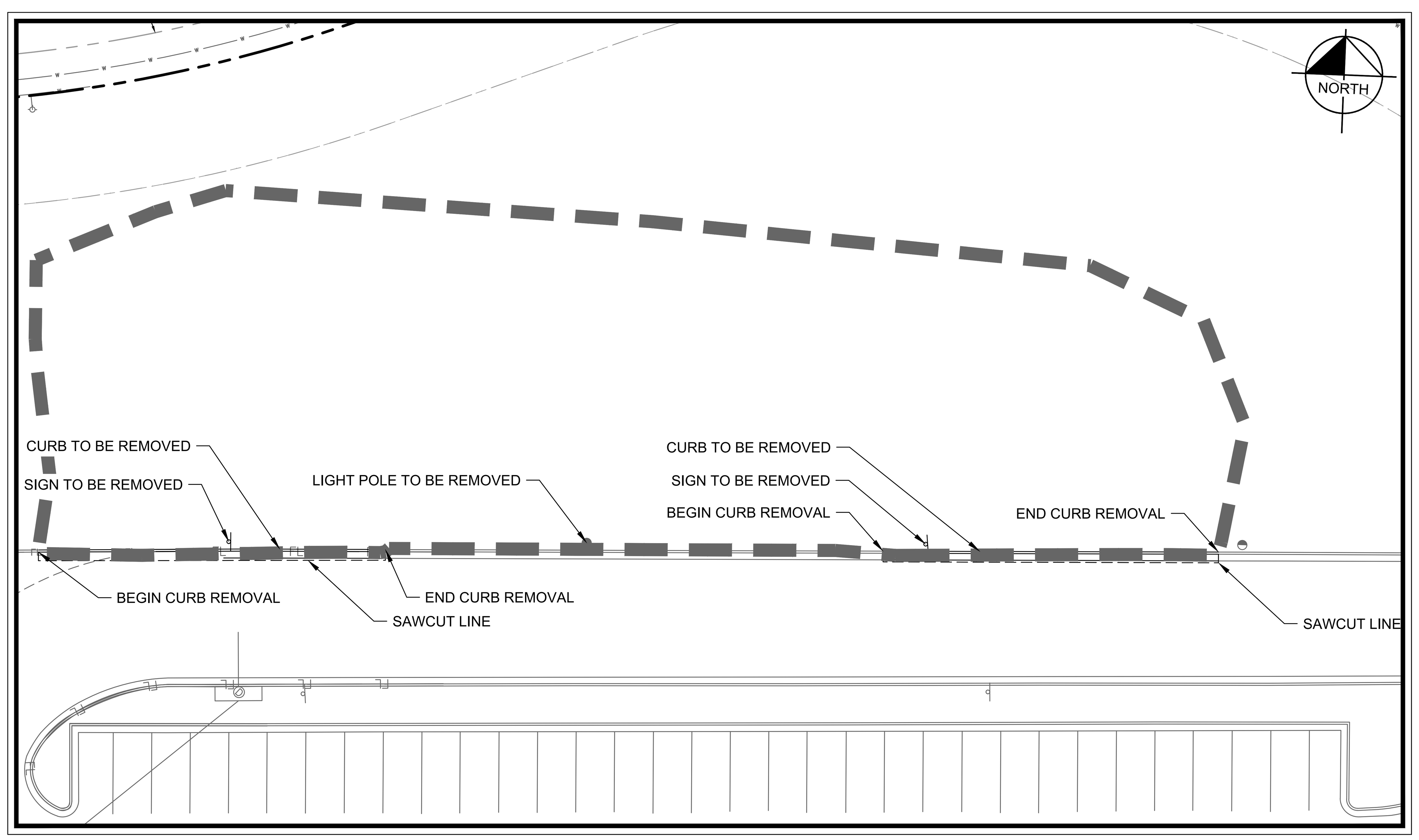
REVISION	DATE	
1	05.08.25	ADDENDUM 01
2	05.15.25	ADDENDUM 03

DEMOLITION NOTES

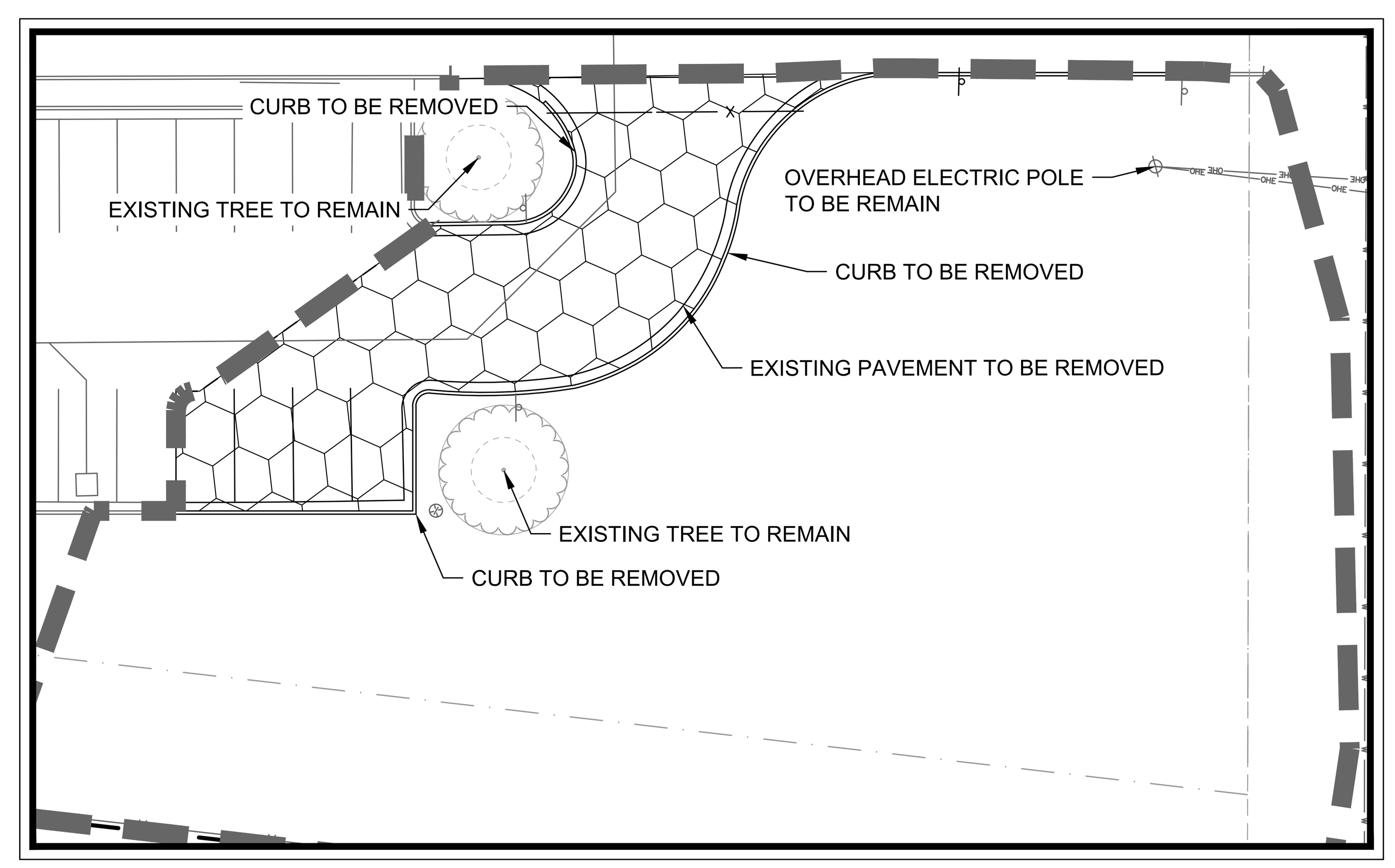
1. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF KYLE AND FRANCHISED UTILITY COMPANIES TO MAINTAIN SERVICES AT ALL TIMES TO NEIGHBORING PROPERTIES. THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS INDICATING HOW THE WASTE FROM THE SITE HAS BEEN HANDLED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT. THE SITE, AFTER DEMOLITION SHALL BE GRADED TO ELIMINATE DEPRESSIONS, HOLES, BERMS, DIRT PILES, ETC. THE SITE IS TO BE GRADED UNTIL RELATIVELY SMOOTH AND ATTRACTIVE IN APPEARANCE PRIOR TO STABILIZATION OF EARTH. ANY FILL MATERIAL/FILL AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT A MOISTURE AT, OR ABOVE, OPTIMUM MOISTURE CONTENT IN MAXIMUM 8" LIFTS. CONTRACTOR SHALL PROVIDE PROOF IN THE FORM OF LAB TEST KITS THAT THIS HAS BEEN ACHIEVED.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE PHASE I ENVIRONMENTAL SITE ASSESSMENT.
3. LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL 811 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TESS PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEARS SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGE DONE TO THESE FACILITIES.
4. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE THEY COMMENCE ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS.
7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER WAS NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
8. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DEVICES FOR ANY STREET WORK.
9. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE DEVELOPER IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
10. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., ACCORDING TO STANDARD BEST PRACTICES.
11. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES AROUND THE SITE PERIMETER ARE TO BE INSTALLED.
12. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
13. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
14. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
15. ANY RECYCLED MATERIAL TO BE STOCKPILED ON THE SITE SHALL BE STORED IN AS SMALL AN AREA AS PRACTICABLE AND THE LOCATION OF ANY STOCKPILE SHALL BE WELL CLEAR OF THE BUILDING PAD AREA AND THE LOCATION MUST BE PRE-APPROVED BY THE OWNER PRIOR TO STOCKPILING.
16. FILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECH REPORT.

Project:

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS



INSET B



INSET C

ADVISORY NOTES

1. KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACTS THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE. KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING HIS OWN SITE RECONNAISSANCE TO SCOPE HIS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW ANY AVAILABLE REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN.
3. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
4. KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE.

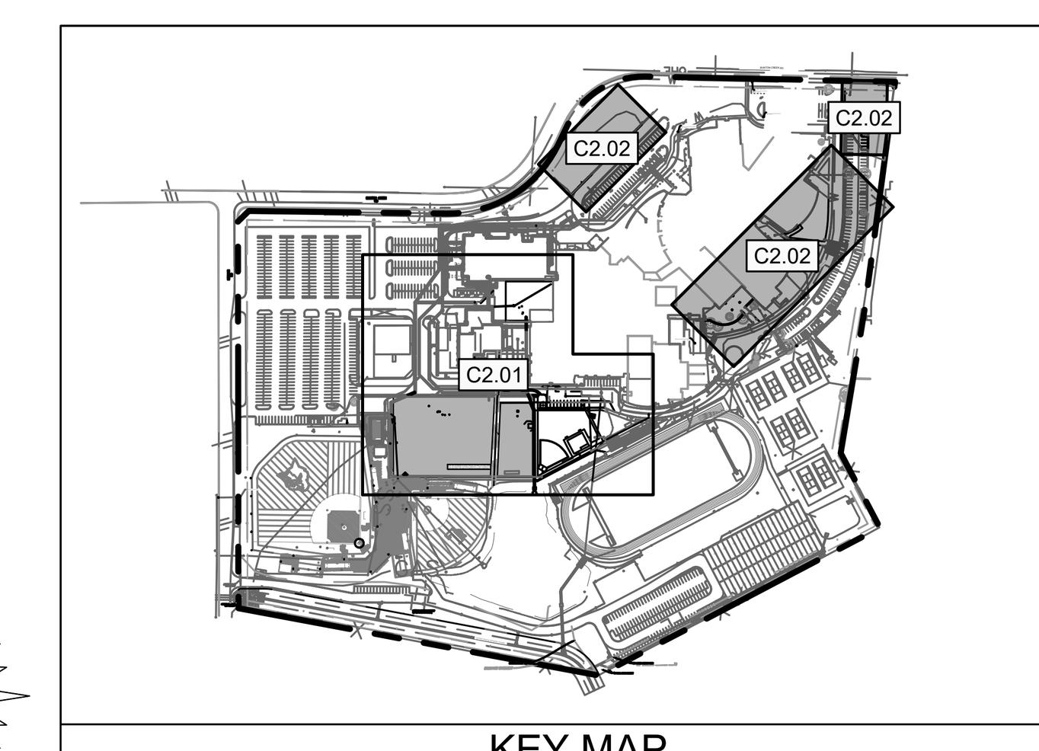
BENCHMARK LIST

LCRA BENCHMARK PID NUMBER A490
NAVD 88 DATUM
ELEVATION: 633.05'

811 Know what's below. Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



KEY MAP
N.T.S.

Kimley»Horn

TBPE FIRM NO. 928

STATE OF TEXAS
RICHARD J. UNDERWOOD
117843
REGISTERED PROFESSIONAL ENGINEER
05/15/2025

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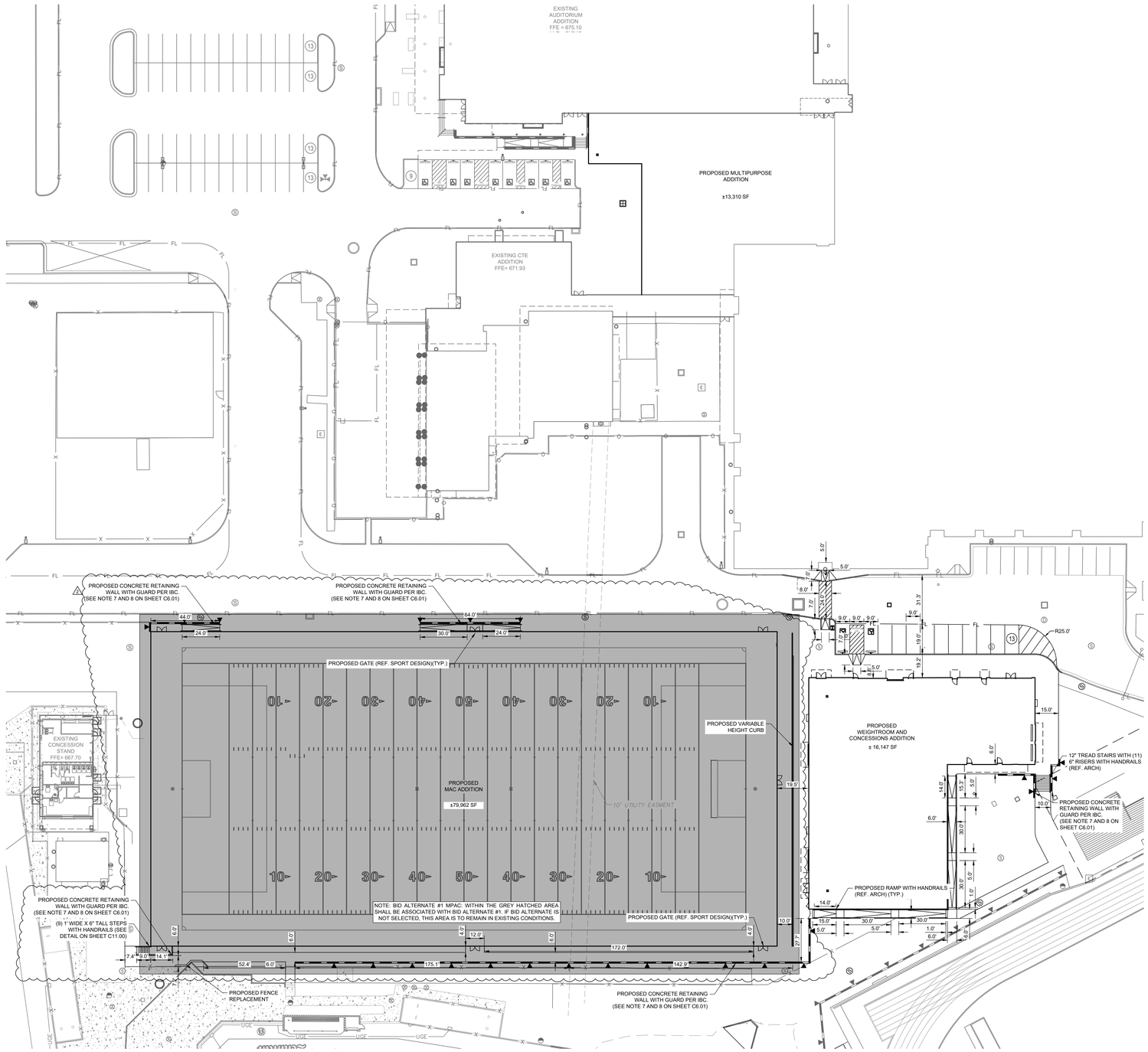
DEMOLITION PLAN (2 OF 2)

PACKAGE	VOLUME
Job No. 01954-08-01	**Sheet No.** ISSUE FOR BID
Drawn By: RAU	C2.02
Date: 05/15/2025	



GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPERTY BOUNDARY
- PROPOSED SAWCUT LINE
- FL — PROPOSED FIRE LANE
- X — PROPOSED FENCE
- PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL)
- (S) PROPOSED PARKING COUNT
- PROPOSED ACCESSIBLE PARKING SPACE
- PROPOSED BARRIER FREE RAMP
- (S) PROPOSED SANITARY SEWER MANHOLE
- CI PROPOSED CURB INLET
- (S) EXISTING SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING LIGHT POLE

NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL CONSTRUCTION DRAWINGS FOR EXACT BUILDING DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAIL OF HARDSCAPE.
3. ALL CURB RADII ARE 3 FEET UNLESS DIMENSIONED OTHERWISE.
4. BUILDING, MECHANICAL EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND DIMENSIONS.
5. ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH CITY OF KYLE STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED.
6. PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.

REVISION	DATE	
1	05.05.25	ADDENDUM #1
2	05.13.25	ADDENDUM #3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS

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BENCHMARK LIST
LCRA BENCHMARK PID NUMBER A490 NAVD 88 DATUM ELEVATION: 633.05'

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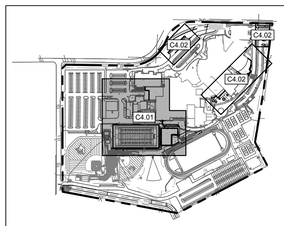
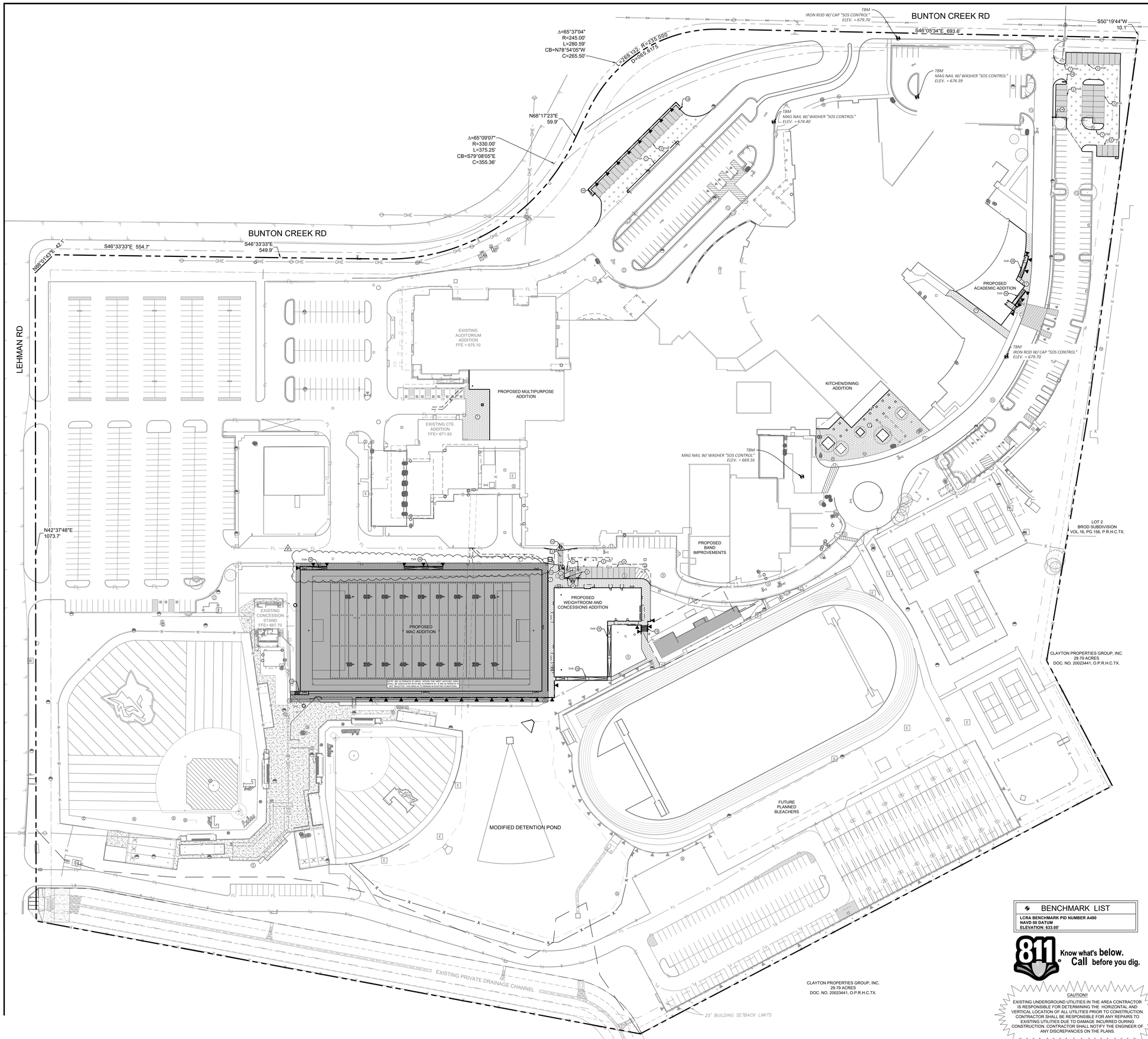


KEY MAP
N.T.S.

DIMENSION CONTROL PLAN (1 OF 2)

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID C4.01
Drawn By: RAU	
Date: 05/15/2025	



NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

LEGEND

1	PROPOSED 6" CONCRETE CURB (REF. SHEET C11.00 FOR DETAILS)
2	4" PAINTED STRIPE (TYP.)
3	4" PAINTED STRIPING, 2' O.C. @ 45°
4	FIRE LANE STRIPING (REF. DETAIL, SHEET C11.00)
5	ACCESSIBLE PARKING SYMBOL (REF. DETAIL, SHEET C11.00)
6	ACCESSIBLE PARKING SIGN (REF. DETAIL, SHEET C11.00)
7	CONSTRUCT ON-SITE CONCRETE SIDEWALK (REF. DETAIL, SHEET C11.00)
8	CONSTRUCT PUBLIC CONCRETE SIDEWALK (REF. DETAIL, SHEET C11.00)
9	CONCRETE WHEELSTOP (REF. DETAIL, SHEET C11.00)
10	CONSTRUCT ON-SITE BARRIER FREE RAMP (REF. DETAIL, SHEET C11.00)
11	CONSTRUCT PUBLIC BARRIER FREE RAMP (REF. DETAIL, SHEET C11.00)
12	MOWER ACCESS
13	PROPOSED DIRECTIONAL ARROW STRIPING. CONTRACTOR TO PROVIDE SHOP DRAWING OF PAVEMENT MARKINGS FOR APPROVAL PRIOR TO INSTALLATION
14	PROPOSED LIGHT POLE (REF. MEP)
15	CONCRETE STAIRS WITH HANDRAILS (REF. DETAIL, SHEET C11.00)
16	PROPOSED RAMP WITH HANDRAILS (REF. ARCH)
	PROPOSED LIGHT-DUTY CONCRETE PAVEMENT (GENERAL PARKING PAVEMENT PER GEOTECH REPORT)
	PROPOSED MEDIUM-DUTY CONCRETE PAVEMENT (ACCESS DRIVE PAVEMENT PER GEOTECH REPORT)
	PROPOSED HEAVY-DUTY CONCRETE PAVEMENT (BUS LOOP/FIRE PAVEMENT PER GEOTECH REPORT)
	PROPOSED ON-SITE (PRIVATE) SIDEWALK
	PROPOSED AREA OF RESTRIPING

NOTES

1. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVING AND SOIL PREPARATION NOTES.
2. REFERENCE DIMENSION CONTROL PLAN ON SHEET C4.00 FOR CURB RADII AND LAYOUT INFORMATION.
3. REFERENCE IRRIGATION AND MEP PLANS FOR CONDUIT SIZES AND LOCATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
4. EXPANSION JOINTS SHOULD BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT SUBJECT TO DIFFERENT MAGNITUDE OF MOVEMENT, E.G., LIGHT POLES, RETAINING WALLS, EXISTING PAVEMENT, STAIRWAYS, ENTRYWAY PIERS, BUILDING WALLS, OR MANHOLES.
5. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
6. MOWER ACCESS CONSISTS OF 6' OF LAY DOWN CURB WITH 2' TRANSITION ON EACH SIDE
7. ALL SIDEWALKS AND CURB IS REQUIRED TO BE DOWELED INTO CURB AND ENTRIES.

TAS NOTE

GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, SLIP-RESISTANT, AND SHALL COMPLY WITH SECTION 302 OF THE TEXAS ACCESSIBILITY STANDARDS.

BENCHMARK LIST

LCRA BENCHMARK PID NUMBER A490
NAVD 88 DATUM
ELEVATION: 633.05'

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REVISION	DATE
ADDENDUM #1	05.02.25
ADDENDUM #3	05.13.25

Project:

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS

Kimley»Horn

TBPE FIRM NO. 928

STATE OF TEXAS
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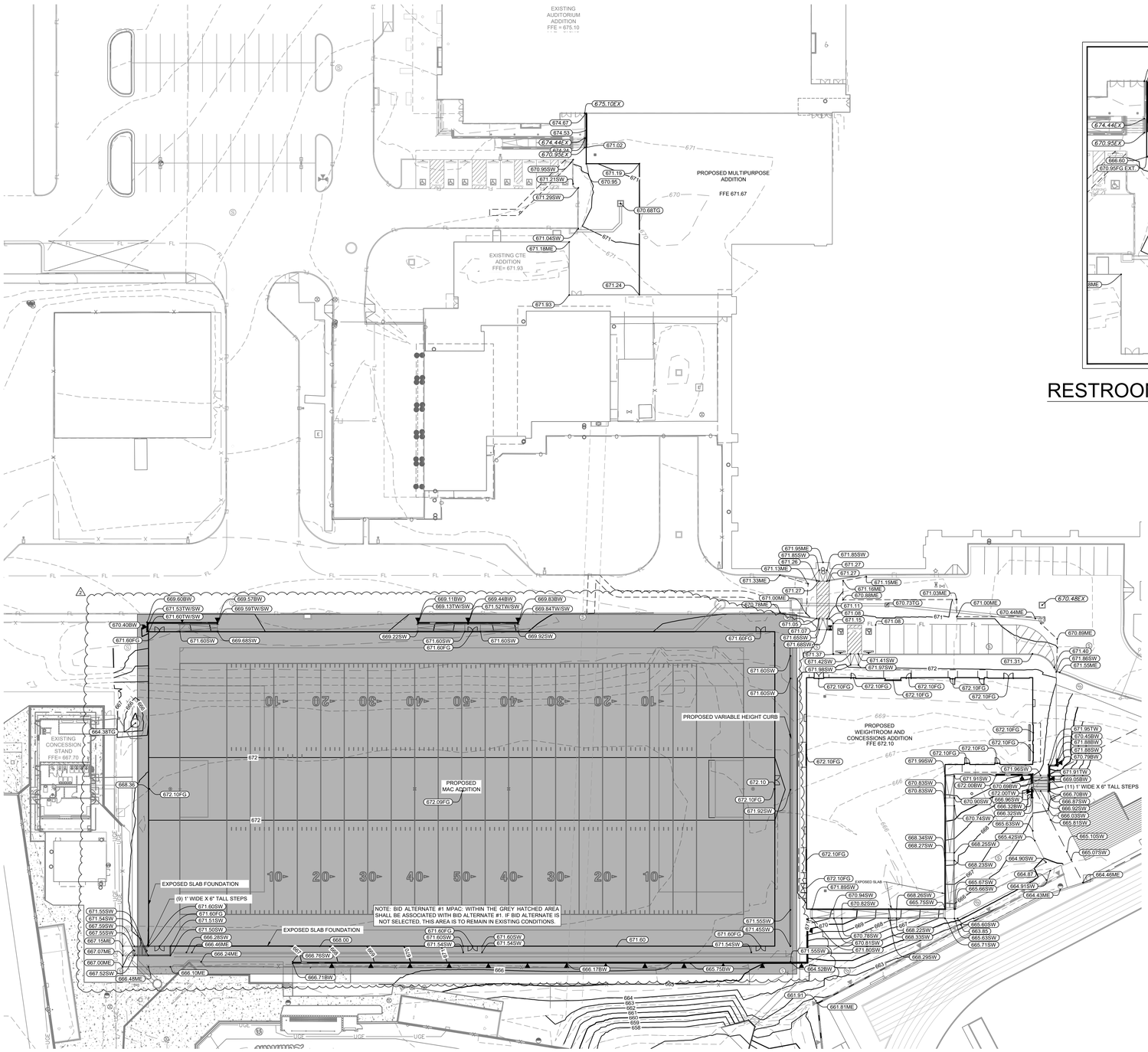
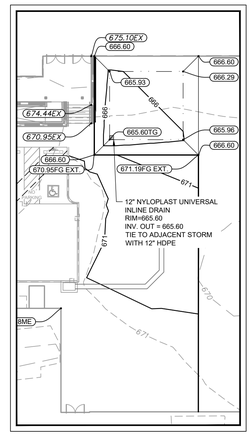
PAVING PLAN

PACKAGE	VOLUME
Job No. 019544-08-01	Sheet No. ISSUE FOR BID C5.01
Drawn By: RAU	
Date: 05/15/2025	

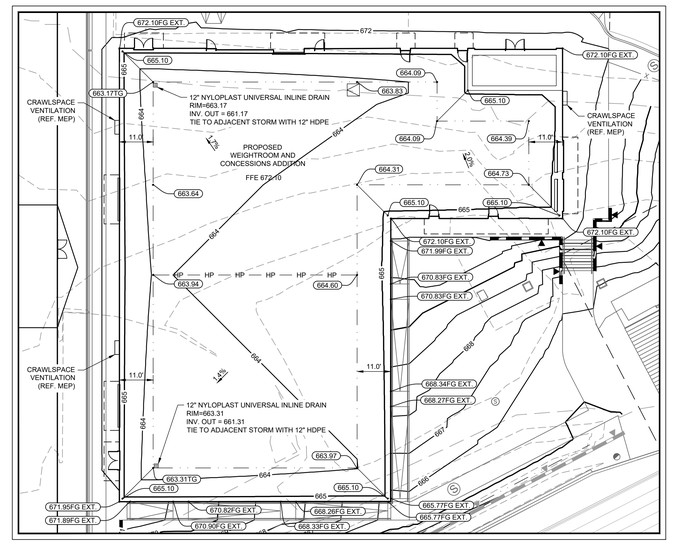




RESTROOM CRAWLSPACE
1"=20'

CRAWLSPACE NOTES

1. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL DETAILS REGARDING FOUNDATIONS, EXTERIOR WALLS, AND AREAWAYS.
2. REFER TO MEP PLANS FOR DETAILS RELATED TO UTILITIES WITHIN THE CRAWL SPACE.
3. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COST ASSOCIATED WITH INSTALLING A MUD SLAB ACROSS THE ENTIRE SURFACE OF THE CRAWL SPACE AREA CONSISTING OF A 3" LEAN MIX OF 1,000 PSI MINIMUM STRENGTH CONCRETE WITH WIRE MESH. CONTRACTOR TO SUBMIT DESIGN OF SLAB TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
4. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COST ASSOCIATED WITH INSTALLING A VAPOR BARRIER FOR THE CRAWL SPACE. REFER TO GEOTECH AND ARCHITECT PLANS FOR DETAILS.



WEIGHTROOM CRAWLSPACE
1"=20'

BENCHMARK LIST

LCRA BENCHMARK PID NUMBER A490
NAVD 88 DATUM
ELEVATION: 533.05'

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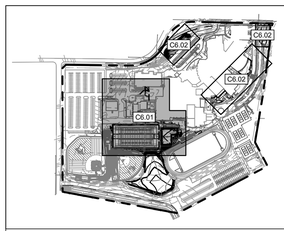

KEY MAP
N.T.S.

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

XXX.XX	PROPOSED SPOT ELEVATION
SW	SIDEWALK
TS	TOP OF STEP
FG	FINISHED GRADE
TW	TOP OF WALL
BW	FINISHED GRADE AT BASE OF WALL
TG	TOP OF GRATE
EX	EXISTING SPOT ELEVATION
ME	MATCH EXISTING
910	PROPOSED CONTOURS
905	EXISTING CONTOURS
HP HP HP	PROPOSED HIGH POINT
	PROPOSED SWALE
	PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL)
	DIRECTION OF INTENDED FLOW
	PROPOSED CURB RAMP
	PROPOSED RAMP WITH HANDRAIL (SEE NOTE 7)

NOTES

1. ALL SPOT GRADES ARE TO TOP OF PAVEMENT (TP) OR TOP OF GRATE (TG), UNLESS OTHERWISE NOTED AS TC (TOP OF CURB). CONTRACTOR TO ADD 6" FOR TOP OF CURB AS NECESSARY.
2. NO EARTHEN SLOPE SHALL BE GREATER THAN 4:1, UNLESS OTHERWISE NOTED.
3. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES, LOADING ZONES AND SIDEWALK LANDINGS SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
4. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS UNLESS OTHERWISE NOTED. RUNNING SLOPE MAY EXCEED 5% IN PUBLIC R.O.W. IF EXISTING ROAD SLOPE EXCEEDS 5%.
5. GENERAL CONTRACTOR TO REFERENCE NOTE 1 REGARDING SPOT ELEVATIONS, COORDINATE WITH DIRT AND LANDSCAPE SUBCONTRACTORS REGARDING PROPOSED SOD AND HYDROMULCH LOCATIONS TO ENSURE ADEQUATE CUT FOR FUTURE VEGETATION.
6. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, READJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
7. RETAINING WALL DESIGN BY CONTRACTOR SHALL TAKE INTO CONSIDERATION THE SURROUNDING PROPOSED IMPROVEMENTS, SUCH AS LIGHT POLES AND PARKING. CONTRACTOR SHALL PROVIDE CONSTRUCTION PLANS, INCLUDING STRUCTURAL DESIGN AND HANDRAIL, FOR THE RETAINING WALL IN CONFORMANCE WITH CITY STANDARDS. CONTRACTOR SHALL SUBMIT THE PLANS FOR OWNER, ARCHITECT, AND ENGINEER REVIEW AND CONTRACTOR SHALL OBTAIN CITY PERMIT
8. PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.
9. PER SECTION 1804.4 OF THE INTERNATIONAL BUILDING CODE, THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A 5% SLOPE FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF WALL UNLESS AN APPROVED ALTERNATIVE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION IS IMPLEMENTED. WHERE THIS PLAN DOES NOT COMPLY WITH THIS REQUIREMENT, IT IS UNDERSTOOD THAT THE BUILDING OFFICIAL'S APPROVAL OF THIS PLAN WILL BE CONSIDERED AN APPROVED ALTERNATE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION.

REVISION	DATE
ADDENDUM #1	05.05.25
ADDENDUM #3	05.13.25

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS

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STATE OF TEXAS
RICHARD J. UNDERWOOD
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05/15/2025

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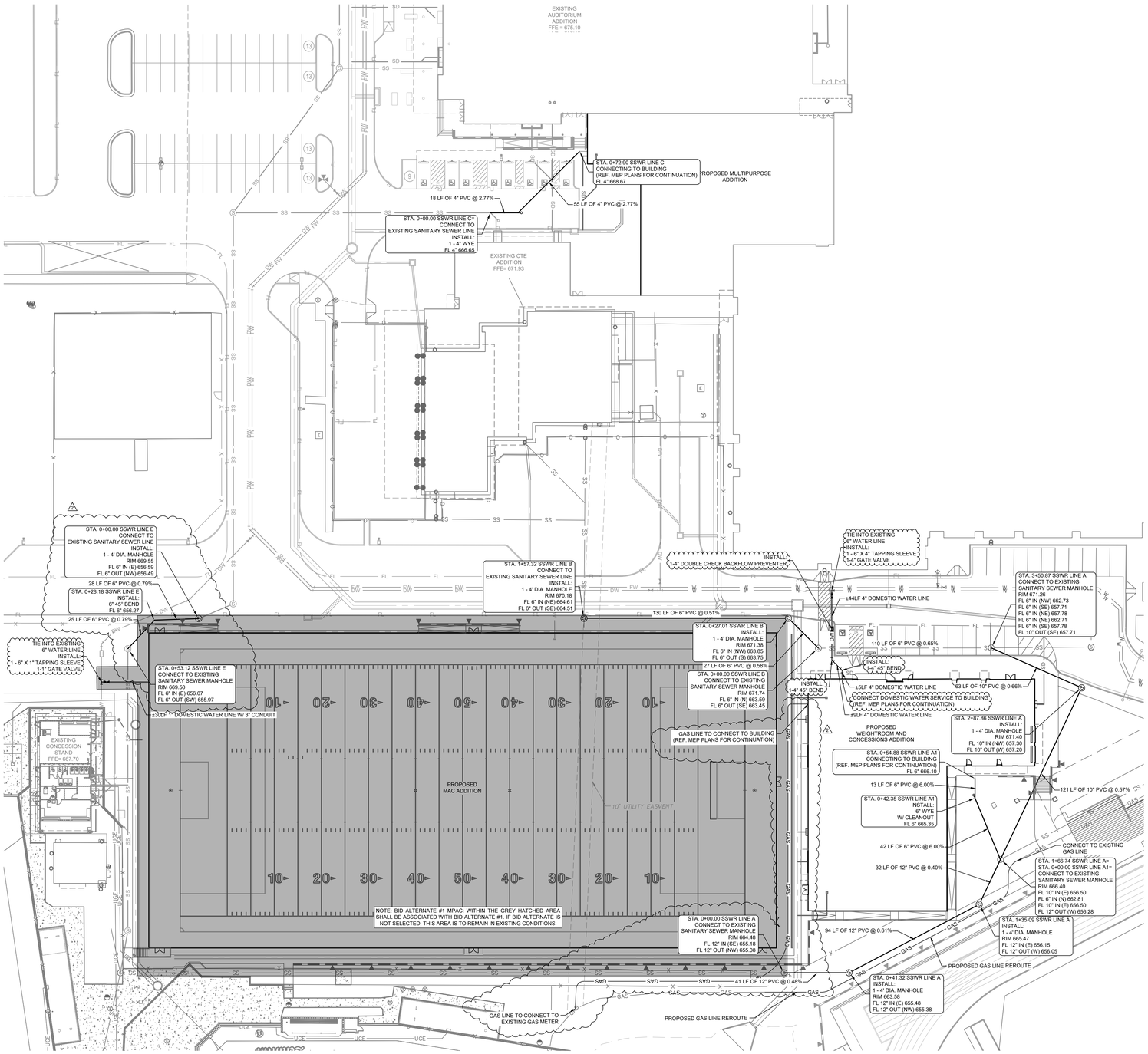
GRADING PLAN
(1 OF 2)

PACKAGE	VOLUME
Job No. 019544-08-01	Sheet No. ISSUE FOR BID C6.01
Drawn By: RAU	
Date: 05/15/2025	



GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- PROPOSED PROPERTY BOUNDARY
- PROPOSED RETAINING WALL
- FW — PROPOSED FIRE WATER LINE
- DW — PROPOSED DOMESTIC WATER LINE
- SS — PROPOSED SANITARY SEWER LINE
- SD — PROPOSED STORM DRAIN (<12")
- PROPOSED STORM DRAIN (>/=12")
- W — EXISTING WATERLINE
- SS — EXISTING SANITARY SEWER LINE
- G — EXISTING GAS LINE
- OHE — EXISTING OVERHEAD ELECTRIC
- PROPOSED SEWER CLEANOUT
- PROPOSED SEWER MANHOLE
- CI GI — PROPOSED CURB INLET/GRATE INLET
- MH JB — PROPOSED MANHOLE/JUNCTION BOX
- PROPOSED FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING SEWER MANHOLE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT

NOTES

1. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.
2. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.
3. UTILITY CONNECTIONS TERMINATE 5' FROM BUILDING ENVELOPE. SEE ARCHITECT AND MEP PLANS FOR CONTINUATION.
4. VALVES 12" AND UNDER WILL BE RESILIENT SEAT GATE VALVES (RSGV).
6. FIRE SPRINKLER LINE SHALL BE SIZED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR.
9. ALL FITTINGS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL BE MECHANICALLY RESTRAINED.
10. CONTRACTOR SHALL REFER AND ADHERE TO ALL TCEQ DESIGN GUIDELINES (CHAPTER 217 AND 290) FOR ALL UTILITY CROSSINGS REQUIREMENTS.
11. CONTRACTOR TO CHECK THAT EXISTING WATER LINES MEET CITY OF KYLE MINIMUM COVER. IF NOT, CONTRACTOR TO INSTALL 45DEG VERTICAL BENDS WHERE NECESSARY TO MAINTAIN MINIMUM COVER.
12. REFERENCE WATER AND SANITARY SEWER NOTES ON SHEET C1.00 FOR ADDITIONAL REQUIREMENTS.
13. REFERENCE SHEET C11.01 AND C11.02 FOR WATER AND SEWER STANDARD DETAILS.

BENCHMARK LIST

LCRA BENCHMARK PID NUMBER A490
NAVD 88 DATUM
ELEVATION: 633.05'

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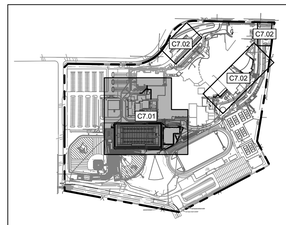

KEY MAP
N.T.S.

REVISION	DATE
ADDENDUM #1	05/02/25
ADDENDUM #3	05/15/25

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS

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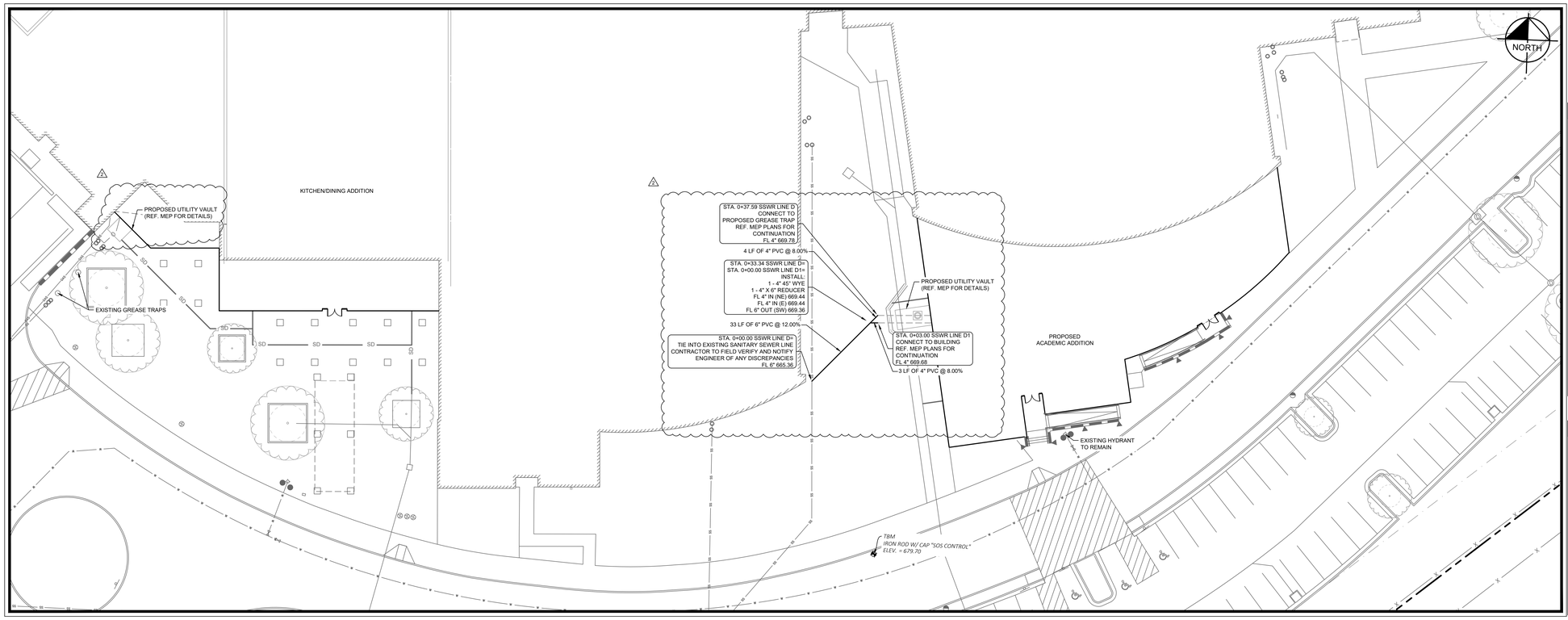
UTILITY PLAN
(1 OF 2)

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID C7.01
Drawn By: RAU	
Date: 05/15/2025	



GRAPHIC SCALE IN FEET
0 10 20 40

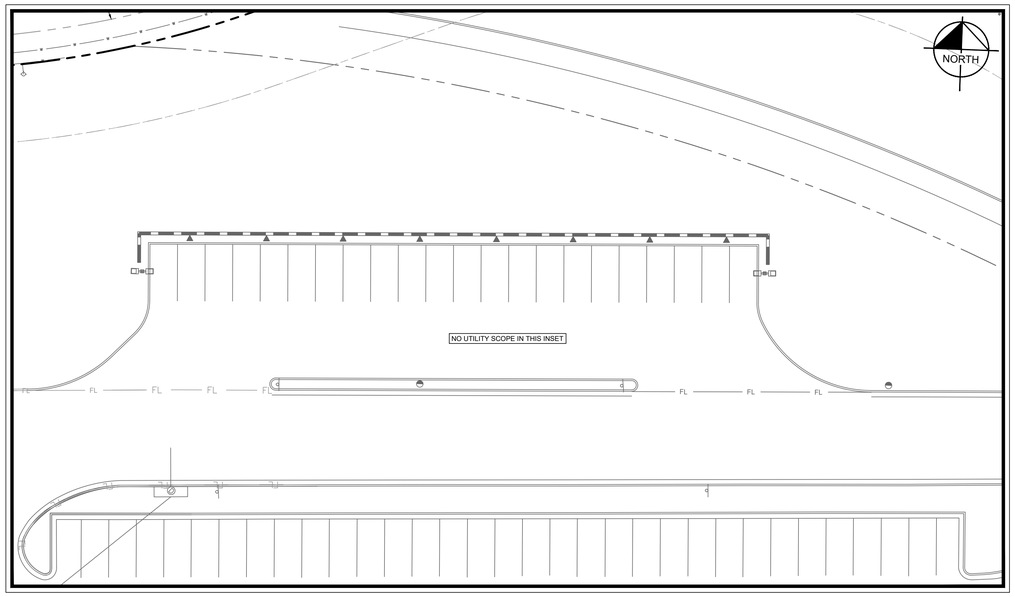
LEGEND

	PROPOSED PROPERTY BOUNDARY
	PROPOSED RETAINING WALL
FW	PROPOSED FIRE WATER LINE
DW	PROPOSED DOMESTIC WATER LINE
SS	PROPOSED SANITARY SEWER LINE
SD	PROPOSED STORM DRAIN (<12")
	PROPOSED STORM DRAIN (>/=12")
W	EXISTING WATERLINE
SS	EXISTING SANITARY SEWER LINE
G	EXISTING GAS LINE
OHE	EXISTING OVERHEAD ELECTRIC
	PROPOSED SEWER CLEANOUT
S	PROPOSED SEWER MANHOLE
CI GI	PROPOSED CURB INLET/GRATE INLET
MH JB	PROPOSED MANHOLE/JUNCTION BOX
	PROPOSED FIRE HYDRANT
	EXISTING LIGHT POLE
	EXISTING SIGN
S	EXISTING SEWER MANHOLE
	EXISTING POWER POLE
	EXISTING FIRE HYDRANT

NOTES

1. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.
2. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.
3. UTILITY CONNECTIONS TERMINATE 5' FROM BUILDING ENVELOPE. SEE ARCHITECT AND MEP PLANS FOR CONTINUATION.
4. VALVES 12" AND UNDER WILL BE RESILIENT SEAT GATE VALVES (RSGV).
6. FIRE SPRINKLER LINE SHALL BE SIZED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR.
9. ALL FITTINGS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL BE MECHANICALLY RESTRAINED.
10. CONTRACTOR SHALL REFER AND ADHERE TO ALL TCEQ DESIGN GUIDELINES (CHAPTER 217 AND 290) FOR ALL UTILITY CROSSINGS REQUIREMENTS.
11. CONTRACTOR TO CHECK THAT EXISTING WATER LINES MEET CITY OF KYLE MINIMUM COVER. IF NOT, CONTRACTOR TO INSTALL 45DEG VERTICAL BENDS WHERE NECESSARY TO MAINTAIN MINIMUM COVER.
12. REFERENCE WATER AND SANITARY SEWER NOTES ON SHEET C1.00 FOR ADDITIONAL REQUIREMENTS.
13. REFERENCE SHEET C11.01 AND C11.02 FOR WATER AND SEWER STANDARD DETAILS.

INSET A



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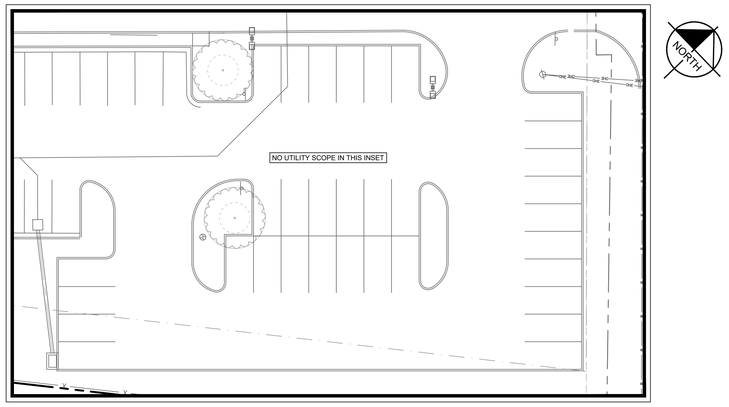
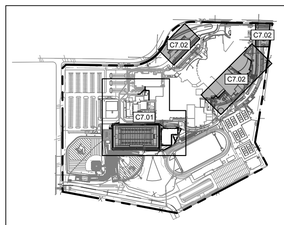


INSET C

BENCHMARK LIST
LCRA BENCHMARK PID NUMBER A490 NAVD 88 DATUM ELEVATION: 633.05'

811 Know what's below. Call before you dig.

CAUTION!
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



KEY MAP
N.T.S.

REVISION	DATE
ADDENDUM #1	05.05.25
ADDENDUM #3	05.13.25

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS

Kimley»Horn
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TBPE FIRM NO. 928

STATE OF TEXAS
RICHARD J. UNDERWOOD
117843
REGISTERED PROFESSIONAL ENGINEER
05/15/2025

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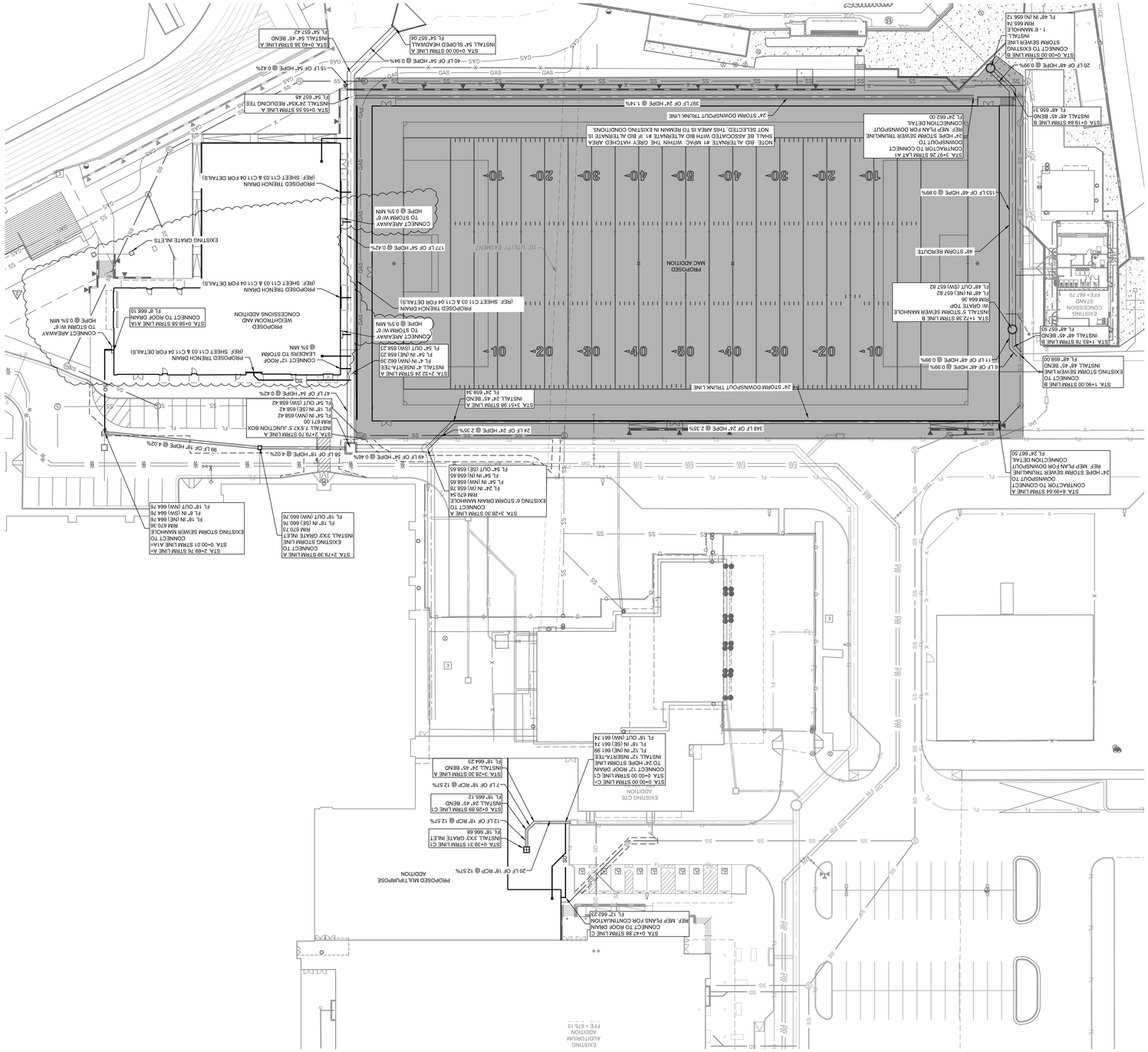
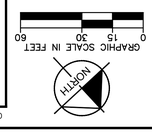
UTILITY PLAN (2 OF 2)

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID C7.02
Drawn By: RAU	
Date: 05/15/2025	





LEGEND

PROPOSED PROPERTY BOUNDARY	
PROPOSED RETAINING WALL	
PROPOSED FIRE WATER LINE	FW
PROPOSED DOMESTIC WATER LINE	DW
PROPOSED SANITARY SEWER LINE	SS
PROPOSED STORM DRAIN (<=12")	SD
PROPOSED STORM DRAIN (>=12")	
EXISTING WATERLINE	W
EXISTING SANITARY SEWER LINE	SS
EXISTING GAS LINE	G
EXISTING OVERHEAD ELECTRIC	OHE
PROPOSED SEWER CLEANOUT	
PROPOSED SEWER MANHOLE	S
PROPOSED CURB INLET/GRATE INLET	CI
PROPOSED MANHOLE/JUNCTION BOX	MH JB
PROPOSED FIRE HYDRANT	
EXISTING LIGHT POLE	
EXISTING SIGN	
EXISTING SEWER MANHOLE	
EXISTING POWER POLE	
EXISTING FIRE HYDRANT	

STORM NOTES

1. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.
2. REFERENCE STORM SEWER NOTES ON SHEET C1.00 FOR PIPE MATERIAL REQUIREMENTS.
3. REFERENCE SHEET C11.03-C11.04 FOR STORM SEWER DETAILS.
4. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.
5. DRAIN BASINS TO BE VELOPLAST OR APPROVED EQUAL.

REVISION	DATE
ADDENDUM 01	05.08.25
ADDENDUM 03	05.13.25

Project:

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS

RICHARD L. UNDERWOOD
117849
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
05/15/2025

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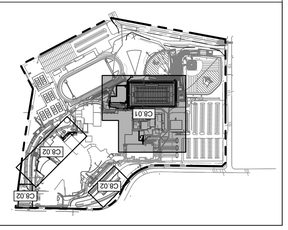
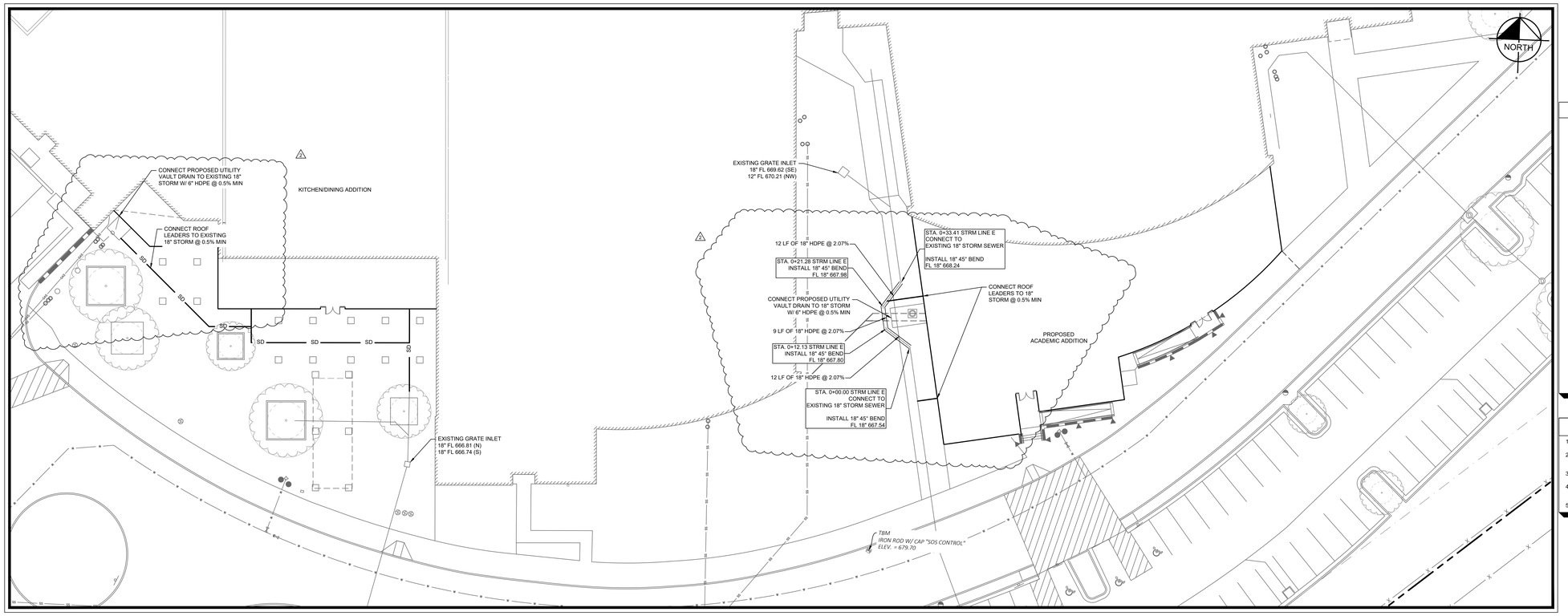
STORM PLAN
(1 OF 2)

PACKAGE VOLUME

Job No.	Sheet No.
019546-04-01	ISSUE FOR BID
Drawn By:	
RAJ	
Date:	
05/13/2025	C8.01

KEY MAP
N.T.S.





GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND

	PROPOSED PROPERTY BOUNDARY
	PROPOSED RETAINING WALL
FW	PROPOSED FIRE WATER LINE
DW	PROPOSED DOMESTIC WATER LINE
SS	PROPOSED SANITARY SEWER LINE
SD	PROPOSED STORM DRAIN (<12")
	PROPOSED STORM DRAIN (>/=12")
W	EXISTING WATERLINE
SS	EXISTING SANITARY SEWER LINE
G	EXISTING GAS LINE
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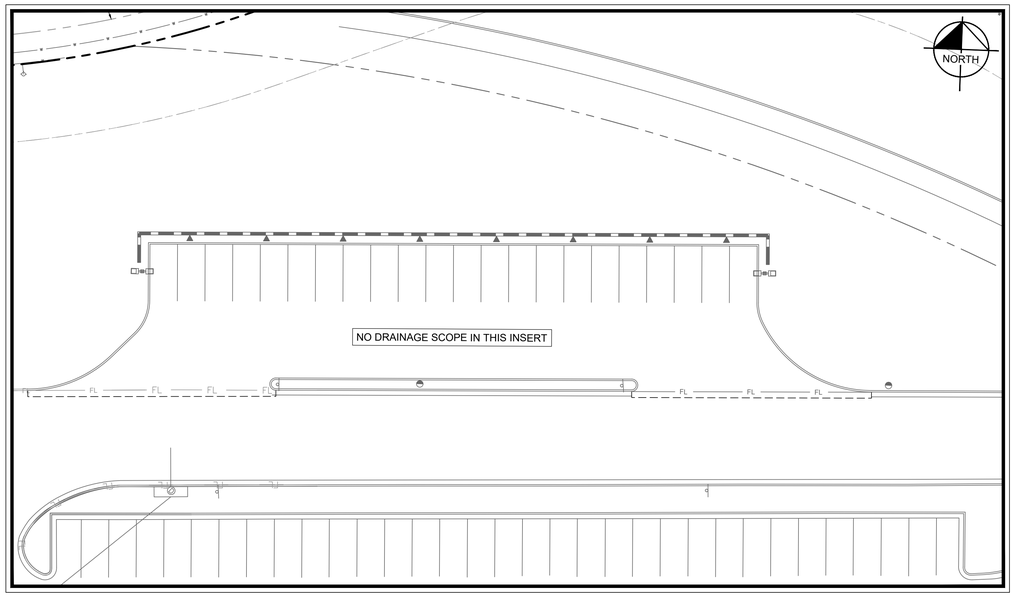
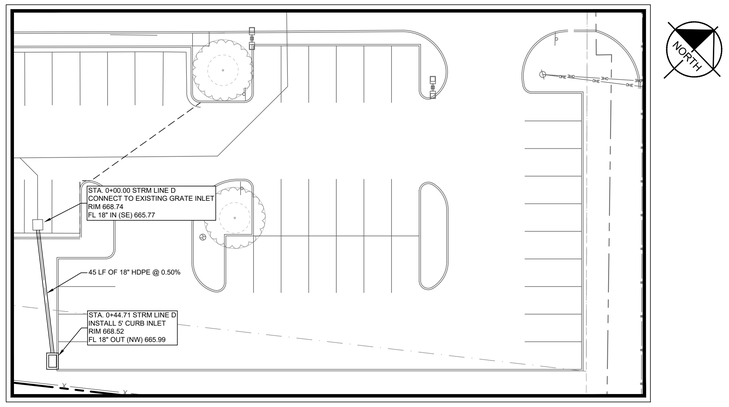
INSET A



INSET B



INSET C

ADDENDUM #	DATE
01	05.02.25
03	05.13.25

REVISION

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS C.I.S.D.
KYLE, TEXAS

BENCHMARK LIST

LCRA BENCHMARK PID NUMBER A490
NAVD 88 DATUM
ELEVATION: 633.05'

811 Know what's below. Call before you dig.

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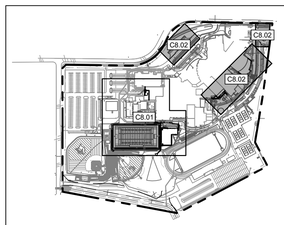

KEY MAP
N.T.S.

Kimley»Horn
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STATE OF TEXAS
RICHARD J. UNDERWOOD
117843
REGISTERED PROFESSIONAL ENGINEER
05/15/2025

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STORM PLAN (2 OF 2)

PACKAGE	VOLUME
Job No. 019548-01	Sheet No. ISSUE FOR BID
Drawn By: RAU	C8.02
Date: 05/15/2025	

SITE BENCHMARK

SITE BENCHMARK TO BE DETERMINED IN THE FIELD.

NOTE:
SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PORCHES, RAMPS, VESTIBULE, SLOPED PAVING, TRUCK DOCKS, BUILDING UTILITY ENTRANCE LOCATIONS AND PRECISE BUILDING DIMENSIONS.

0 30' 45' 60'
SCALE IN FEET

811 Know what's below. Call before you dig.

EXISTING LEGEND

+00 CLEANOUT	CHAINLINK FENCE LINE
FIRE HYDRANT	STORM DRAIN
LIGHT POLE	X"SS SANITARY SEWER
SCOREBOARD	X"W WATER
TREE	

GENERAL NOTES

A. CONTRACTOR SHALL RE-ESTABLISH DISTURBED GRASS AROUND FIELD WITH COMMON BERMUDA GRASS.

B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS (SEE LANDSCAPE PLAN FOR SEED MIX AND PROPER APPLICATION RATE). ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

C. ALL DIMENSIONS ARE TAKEN FROM FACE OF CONCRETE AND FACE OF CHAIN LINK FENCE.

FIELD AND TURF NOTES

70A PORTABLE DISCUSS RING WITH 4 INCH YELLOW FIELD STRIPING.

70B INSTALL PADS AT BUILDING COLUMNS AS NOTED ON A4.12 AND A1.1C1. ADD TO SPECIFICATION 32 8450.

70G INSTALL SHOCK PAD AS SPECIFIED BENEATH ENTIRE SYNTHETIC TURF AREA.

70H ALL FOOTBALL FIELD LINES SHALL BE 4 INCH WIDE AND WHITE IN COLOR PER COLOR RENDER.

70J END ZONE LINES SHALL BE 8 INCH WIDE AND WHITE IN COLOR PER COLOR RENDER.

70K BACK OF END ZONE SHALL BE 8 INCH WIDE AND WHITE IN COLOR PER COLOR RENDER.

70L FIELD NUMBERING AND ARROWS SHALL BE SOLID WHITE IN COLOR.

70M BASE PLATES TO BE WHITE INLAID SYNTHETIC TURF.

70N ALL BASEBALL/SOFTBALL FIELD LINES SHALL BE 4 INCH WIDE AND BLUE IN COLOR PER COLOR RENDER.

70P ALL SOCCER FIELD LINES SHALL BE 4 INCH WIDE AND GREY IN COLOR PER COLOR RENDER.

70S PROVIDE ALLOWANCE FOR FIELD CUSTOMIZATION.

70T INSTALL STANDARD SOCCER GOAL.

70U INSTALL BATTING CAGE NETTING AS SPECIFIED.

70X INSTALL GREEN SYNTHETIC TURF SYSTEM PER COLOR RENDER.

70Z INSTALL ALTERNATING GREEN SYNTHETIC TURF SYSTEM PER COLOR RENDER.

70CC INSTALL SPORTS NETTING, NETTING TO BE HUNG FROM THE CEILING OF STEEL FIELD COVER PER SPECIFICATIONS.

70DD INSTALL SPORTS NETTING, PER SPECIFICATIONS.

70EE PROPOSED SPORT FIELD COVER, TO BE CONSTRUCTED BY OTHERS AND SHOWN ON THIS PLAN FOR REFERENCE. REFER TO ARCHITECTURAL PLANS FOR FINAL PLACEMENT AND REQUIREMENTS.

70FF INSTALL SOCCER FLAGS AT ALL CORNERS OF FIELD.

70GG CONTRACTOR TO PROVIDE KWIK GOAL PREIMER WEIGHTED MODEL SOCCER FLAG, OR APPROVED EQUAL

FIELD AND TURF DETAIL

72C FOOTBALL FIELD ALTERNATING GREEN

91A GOAL POST WITH PAD INSTALLATION

92D DISCUS PAD CONSTRUCTION

92F SHOT PUT PAD CONSTRUCTION

TOTAL AREA = ±79,364 SF

EXISTING CONCESSION STAND PEF 66770

EXISTING DETENTION POND

PROPOSED WEIGHTROOM AND CONCESSIONS ADDITION

Revision /	Date
100% CD	02/26/2025
ADD-1	05/07/2025
ADD-3	05-15-2025

Project:

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
BUDA, TX

JEFFERY J. BRESEE
92017
STATE OF TEXAS
REGISTERED
ARCHITECT
F-7524
2025-05-14
JEFFERY J. BRESEE
TX 92017

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SURFACE PLAN - ALTERNATE 1

Job No. 24206	Sheet No. 100% CD F1
Drawn By: RM	
Date: 5/5/2025	

2025-05-15 ADDENDUM-3

PROJECT RELEASE TYPE

5/13/2025 7:27 AM
DRAWING LOCATION - P:\24000\24206.0\DRAWINGS\DESIGN\WORKING\24206-SP.DWG - SAVED BY - RMENDA

GENERAL NOTES

SECTION 1 - GENERAL INFORMATION AND DESIGN CRITERIA

SECTION 1.1- DOCUMENTS

1.1.1 Structural Drawings are not stand-alone documents and are augmented by technical specifications and must be coordinated with the complete set of contract documents.

1.1.2 Structural documents are protected by Copyright Law of the United States and are not to be used for any purpose other than construction of the building structure described in the contract documents at the geographic location shown.

1.1.3 General Notes and Typical Details apply throughout the project wherever conditions similar to those depicted exist and are not necessarily specifically referenced in the documents.

1.1.4 The Geotechnical Report referenced herein is not part of the Structural Documents. However, a copy should be obtained for reference during installation of foundations and subgrade preparation.

COORDINATION

1.1.5 Contractor is responsible for coordinating Structural Documents with other trades and disciplines in the contract documents. Some requirements are not known prior to issue and may change as layout and fabrication drawings are developed. Promptly report deviations and interferences with structural components for resolution by the Architect.

1.1.6 Contractor to verify dimensional location and depth of slab recesses and offsets with Architectural Drawings.

1.1.7 Contractor to verify size, weights, location, and details of structurally supported equipment and associated openings prior to fabrication of the supporting structure.

1.1.8 Contractor to verify size and location of floor and roof penetrations shown on structural drawings with other disciplines.

1.1.9 Submit for approval a composite drawing showing all proposed openings and sleeves through structural members for engineering review prior to or simultaneous with shop drawings for affected framing.

1.1.10 Contractor to verify dimensions, details, plumbness and squareness of existing structures meeting or tying into new construction.

1.1.11 Do not scale plans, details and sections for quantity, length or fit of materials.

REFERENCE ELEVATIONS

1.1.12 Heights of floor and roof decks and various framing components are given on the drawings relative to a reference elevation that is equivalent to a Mean Sea Level Elevation noted below. Contractor to verify against Civil grading plans and report discrepancies to Architect for resolution prior to construction.

Area A FFE = 100' – 0" / Civil 672.10'
Area B FFE = 100' – 0" / Civil 671.67'
Area C FFE = 103' – 4" / Civil 675.29'
Area D FFE = 100' – 0" / Civil 671.96'
Area E FFE = 100' – 0" / Civil 672.10'

TEMPORARY BRACING

1.1.13 Structural systems are designed for final, in-place conditions only. Provide temporary bracing of structural components for conditions that will exist during construction and to meet all regulatory requirements for safety of workers.

1.1.14 Maintain temporary frame bracing until installation of permanent structural bracing elements, member connections and floor and roof diaphragms are complete.

SECTION 1.2- CODES AND STANDARDS

1.2.1 Building Code of jurisdiction - 2021 International Building Code

1.2.2 Structural Concrete Code - American Concrete Institute (ACI) 318

1.2.3 Structural Masonry Code – The Masonry Society (TMS) 402

1.2.4 Structural Steel Code - American Institute of Steel Construction (AISC) 360 (and 341 where applicable)

1.2.5 Structural Cold-Formed Steel Code - American Iron and Steel Institute (AISI) S100

SECTION 1.3- DESIGN CRITERIA

1.3.1 Structure Risk Category III

1.3.2 Live Loads

Occupancy or Use	Uniform (psf)	Concentrated (lbf)	Notes (1)
Ground Level, Typical	100		
Roof, Typical	20		
Schools, Upper Levels	80	1,000	
Stairs and Exitways	100	300	
Stair and Elevator Lobbies	100		

Notes:
(1) Typical concentrated loads applied over 2.5-foot square area to structural members.

1.3.3 Roof Snow Loads
Ground Snow Load, Pg 5 psf

1.3.4 Superimposed Dead Loads
Typical Structured Level 15 psf
Typical Roof 30 psf

Notes:
Superimposed dead loads do not include self-weight of members shown in structural drawings.

1.3.5 Wind Loads

Ultimate design wind speed, Vult	115 mph
Allowable design wind speed, Vasd	89 mph
Serviceability wind speed (25 Year)	80 mph
Exposure Classification	C
Internal Pressure Coefficient	0.18

See component and cladding wind load diagram

1.3.6 Seismic Loads

Seismic Importance Factor, Ie	1.25
Mapped Spectral Acceleration, Ss	0.052
Mapped Spectral Acceleration, S1	0.029
Site Class	D
Design Spectral Acceleration, Sds	0.055
Design Spectral Acceleration, Sd1	0.046
Seismic Design Category	A
Analysis Procedure Used:	
Equivalent Lateral Force	
Basic Seismic Force Resisting System:	
Steel Systems Not Detailed for Seismic	
Response Modification Coefficient, R	3.0
Seismic Response Coeff, Cs	0.01

1.3.7 Rain Loads
Rain Intensity, i 5.36 in/hr

1.3.8 Other Concentrated Loads

Location	Load-pounds	Area
Steel Roof Deck	200	1 sq ft
Stair Treads	300	4 sq in

Notes:
Concentrated loads apply to any location on supporting structure, separately from (not in addition to) uniform live loads, except as noted otherwise.

1.3.9 Assumed weights and locations of structurally supported equipment are indicated on the framing plans.

1.3.10 Pedestrian Guardrail - 50 lbf/ft horizontal and vertical, or 200 lbf concentrated at top, any direction.

STRUCTURAL DEFLECTIONS

1.3.11 Live Load - Floor and roof systems are designed to limit vertical deflections due to live loads to (Clear Span)/360 or less. Attachments of architectural and mechanical components to or between floor and roof structures do not allow for live load deflections of this magnitude to occur without causing distress or deformity to the components.

1.3.12 Dead Load - Floor and roof systems are designed to limit vertical deflections due to total loads to (Clear Span)/240 or less. Some deflections may occur incrementally as loads are placed on the structure, and in the case of concrete structures, may occur over an extended time period. Attachments of architectural and mechanical components do not allow for dead load deflections that may occur after installation. For example, significant deflections may occur when mechanical systems are charged with water or other coolants.

1.3.13 Structural cambers, where shown on the drawings, are generally for estimated dead load deflections. Components attached to cambered beams or trusses should not be connected in a manner that would restrict vertical deflection prior to the placement of dead loads. Where steel beams are connected with self-tensioning devices, final tensioning must be delayed until structural dead loads are in place.

1.3.14 Panelized Wall Systems- Attachments of curtainwall and other wall panel systems must allow for differential vertical deflection of 0.375 inches, and horizontal deflection of H/400 between adjacent floors. Wall cladding attachments do not transfer lateral reactions to bottom flanges of steel beams, joists, or trusses except, 1) where specifically shown on the Structural Drawings, or 2) special bracing is provided by the wall supplier/installer to transfer lateral reactions to the floor slab.

SECTION 2 - FOUNDATIONS AND RELATED EARTHWORK

SECTION 2.1- GEOTECHNICAL REPORT

2.1.1 Design of foundations and structural components in contact with soil is based on recommendations given in the following:

Report Author : UES Professional Solutions
Report Number : A251017
Date of Report : April 10, 2025

2.1.2 Refer to the Geotechnical Report for subgrade conditions that may be encountered during foundation installation and site preparation.

SUBGRADE CRITERIA UNDER BUILDING SLABS

2.1.3 Coordinate under-floor drainage and waterproofing requirements with architectural and plumbing drawings and recommendations of the geotechnical report.

EARTH RETENTION SYSTEMS

2.1.4 Design of earth retention systems is not included in Structural Documents. Refer to Geotechnical Report for requirements.

SECTION 2.2- STRAIGHT SHAFT PIERS

2.2.1 Design Criteria:

Bearing Stratum	: NA
Top of Stratum Elevation (for Bidding Purposes Only)	: 15'-0"
Allowable End Bearing	: 0 psf below 30 ft penet
Positive Side Friction	: 1200 psf at 15 - 25 ft 1500 psf at 25 - 35 ft
Upheaval Side Friction	: 1500 psf
Upheaval Design Depth	: 15 ft
Negative Side Friction	: 1000 psf at 15 - 25 ft 1200 psf at 25 - 35 ft

2.2.2 Pier depths indicated are for bidding purposes only. Actual pier depths may vary depending on depth to bearing stratum.

2.2.3 Remove overpour at tops of piers ("mushrooms") to the required diameter.

SECTION 2.3- FOUNDATION WALLS

2.3.1 Do not backfill walls until lateral bracing structures at top and bottom of each wall are constructed and have attained specified design strength.

2.3.2 Do not backfill perimeter below grade walls over 3 ft until temporary lateral bracing structure at top of each wall is constructed and the wall has attained specified design strength. Walls shall remain braced until permanent lateral bracing structure has attained specified design strength.

SECTION 3 - STRUCTURAL CONCRETE

SECTION 3.1 - CONCRETE FORMS

3.1.1 Formed Voids - Provide retained void spaces between bottom of structural members and subgrade as follows:
Grade Beams and Pilasters 12"
Slab on Void 12"

3.1.2 Form vertical faces of grade beams, pilasters, pier caps, and other vertical foundation element.

SECTION 3.2- STEEL REINFORCING

3.2.1 Reinforcing bars shall be deformed. Strength of bars shall be as follows:
Deformed Bar Anchors 70 ksi
Other bars, UNO Grade 60

SPLICING OF REINFORCING BARS

3.2.2 Top bars in beams or slabs shall be spliced at midspan between supports, unless noted otherwise.

3.2.3 Bottom and middle bars in beams or slabs shall be spliced at supports, unless noted otherwise.

3.2.4 Vertical bars in walls shall be spliced at top of concrete above floors, unless noted otherwise.

LAPPED SPLICE LENGTHS

3.2.5 Lap reinforcing 30 bar diameters at splices of slab-on-grade and temperature and shrinkage reinforcing unless noted or detailed otherwise.

3.2.6 Tension splice lengths shall be calculated in accordance with ACI 318. Use Class B splices unless noted otherwise.

3.2.7 Welded Wire Reinforcement splice length (overlap), measured between outermost cross wires of each fabric sheet, shall be at least one spacing of cross wires plus 2 inches, but in no case less than 6 inches.

CONCRETE COVER TO REINFORCING

3.2.8 Clearance from face of concrete to face of reinforcing:

Piers	3"
Formed Grade Beams,	2" top, 2" sides, 3" bottom
Pier Caps, Pilasters	
Slabs	3/4" interior,1 1/2" exterior exposure

Notes: Above dimensions apply unless noted otherwise in details

PLACEMENT OF REINFORCING

3.2.9 Place first bar of slab reinforcing parallel to side 2 inches from a free edge or half of required bar spacing from face of edge beam.

3.2.10 Single layer reinforcing in walls shall be placed at center of walls unless noted otherwise.

3.2.11 Place reinforcing in toppings or in slabs poured on steel deck at center of slab unless noted otherwise.

SECTION 3.3- CONCRETE MIX DESIGNS

3.3.1 Concrete Mix Schedule:
a. Concrete type is NWC unless noted otherwise. NWC refers to normalweight concrete having maximum cured density of 145 PCF.
b. Where w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength requirements.
c. Where the w/c ratio is shown, it shall be adhered to regardless of strength requirements.
d. "Strength" is required compressive cylinder strength at an age of 28 days.
e. See specification for additional information at auger cast in place piles.
f. Exposure classes are noted as defined in ACI 318. Exposure classes for concrete mixes are FO, SO, WO, and CO unless noted otherwise.
g. At exposed polished concrete floors, fly ash is not permitted, wet curing required.

Description of Use	Strength psi	Agg Size	Max w/c	Air Content	Exposure Class	Notes
ACIP Piles	5000	---	---	---	---	---
Grade Beams, Pilasters, Foundation Walls	4000	1"	0.55	4.5%	F1	---
Structural Beams and Slabs	4000	1"	0.45	---	--	---
Slab on Steel Composite Deck	3500	3/4"	0.45	---	--	
Housekeeping Pads	3000	3/4"	---	---	--	
Light Pole Base	5000	1"	0.45	5%	F2	---
Exterior Slabs	5000	3/4"	0.40	5%	F3	---

SECTION 3.4- CONCRETE SLABS

3.4.1 Slab Placed on Carton Form

Location	Thickness	Reinforcing
Typical	8 inches UNO	Per details (a)

a) Reinforcement shall be placed in accordance with typical details unless shown otherwise.

3.4.2 Slabs on Composite Steel Deck
Composite Slab Schedule:

Type Mark	Overall Thickness	Typ Slab Reinf	Notes/ Addl Top Reinf
CA	6.5"	WWR 6x6-W2.5xW2.5	#5(10-O)@12 over girders
CB	6.5"	#3@12 OC EW	#5(10-O)@12 over girders

Notes:
1. See typical details for reinforcing placement and additional reinforcing over girders. "Girders" refers to interior beams oriented parallel to deck.
(2) Slab types correspond to deck type (see Composite Steel Deck).

3.4.3 Housekeeping Pads
Pad Thickness: 4.0 inches
Pad Reinforcing: WWF6x6-W2.1xW2.1
Pad Thickness: 6.0 inches
Pad Reinforcing: WWF6x6-W3.5xW3.5

Reinforcing shall be centered in the pad. Refer to mechanical drawings for pad locations, plan dimensions and thickness required at specific locations.

3.4.4 Slabs on Geofoam

Location	Thickness	Reinforcing
Raised seating 4 inches & Ramps		#3 @ 12 EW

a) Reinforcement shall be centered in slab.
b) EPS Geofoam Insulation shall be type EPS15 meeting the requirements of ASTM D6817. Geofoam blocks to be adhered to base slab and to one another with a non-solvent based adhesive.

SECTION 3.5- DRILLED IN ANCHORS

3.5.1 Drill holes with rotary impact hammer drill using carbide tipped bits. Drill bits shall be of the diameter as specified by the anchor manufacturer. All holes shall be drilled perpendicular to the concrete or masonry surface.

3.5.2 Embedded items: Identify position of reinforcing steel and other embedded items prior to drilling holes for anchors. Exercise care in drilling to avoid damaging existing reinforcing or embedded items. Notify the Engineer if reinforcing steel or other embedded items are encountered during drilling. Take precautions as necessary to avoid damaging electrical and telecommunications conduit, and gas lines.

3.5.3 Base Material Strength: Unless otherwise specified, do not drill holes in concrete or masonry until concrete, mortar, or grout has achieved full design strength. Do not install adhesive anchors in concrete that is placed less than 21 days prior. (from ACI 318 requirement)

TESTING

3.5.4 Continuous special inspection is required for adhesive anchors. Remove and replace misplaced or malfunctioning anchors. Clean and fill empty anchor holes and patch failed anchor locations with high-strength nonshrink, nonmetallic grout. Anchors that fail to meet proof load or installation torque requirements shall be regarded as malfunctioning.

EXPANSION, UNDERCUT, SCREW AND ADHESIVE ANCHORS

3.5.5 Concrete base material: provide anchors of size and type shown with ICC-ES or IAPMO-UES compliance required

Expansion Anchors: Hilti KWIK Bolt TZ2 (ICC-ES ESR-4266)

Undercut Anchors: Hilti HDA Undercut Anchors (ICC-ES ESR-1546)

Screw Anchors: Hilti Kwik HUS-EZ (ICC-ES ESR-3027)

Adhesive Anchors: Hilti HIT-HY 200 Safe Set System (ICC-ES ESR-3187) for use with Hilti HIT-Z Rod, HAS-E Rod, & Hollow Drill Bit
Hilti HIT-RE 500-V3 Safe Set System (ICC-ES ESR-3814) for use with Hilti HAS-E Rod, Hollow Drill Bit & Hilti Roughening Tool
Hilti HIT HY-200 (ICC-ES ESR 3187)

3.5.6 Grout filled CMU (Concrete Masonry Unit) base material: provide anchors of size and type shown with ICC-ES or IAPMO-UES compliance required

Screw Anchors: Hilti Kwik HUS EZ (ICC-ES ESR-3056)

Adhesive Anchors: Hilti HIT-HY 270 (ICC-ES ESR-4143)

INSTALLATION

3.5.7 Perform anchor installation in accordance with manufacturer's printed installation instructions (MPII).

3.5.8 Protect threads from damage during anchor installation.

3.5.9 Contractor to arrange for a manufacturer's field representative to provide installation training for all products to be used prior to commencement of work. Only trained installers shall perform post-installed anchor installation. A record of training shall be kept on site and made available upon request.

3.5.10 Adhesive anchors installed horizontally or upwardly inclined shall be qualified in accordance with ACI 355.4 requirements for sensitivity to installation direction.

SECTION 4 - STRUCTURAL MASONRY

SECTION 4.1- GENERAL

4.1.1 See Architectural Drawings and Specifications for details and dimensions of masonry work.

4.1.2 Grout lifts at reinforced masonry walls shall be accomplished in accordance with TMS 402/602.

SECTION 4.2- STRUCTURAL PROPERTIES

4.2.1 Required compressive strength of structural assembly = 2000 psi

4.2.2 Load-bearing Concrete Masonry Units: ASTM C90 Normal-weight
Required net area compressive strength = 2000 psi

4.2.3 Mortar: ASTM C270 Type S

4.2.4 Grout: ASTM C476
Required 28-day compressive strength of grout 2000 psi

SECTION 4.3- REINFORCING

JOINT REINFORCEMENT

4.3.1 Horizontal joint reinforcing shall be "Ladder Type" 9 gage welded wires spaced 16 inches on center vertically.

4.3.2 Provide prefabricated "L" and "T" shaped sections at wall intersections.

4.3.3 Lap horizontal wires at least 8" at splices.

BAR REINFORCEMENT

4.3.4 Reinforcing bars shall conform to ASTM A615 Grade 60.

4.3.5 Bar reinforcing shall be lapped at splices per schedule in typical details. Stagger splices in adjacent horizontal bars at least 4'-0".

4.3.6 Vertical reinforcing in cells to be grouted shall be placed using fabricated bar positioners to maintain location within cell.

4.3.7 Grout solid cells below adjacent grade or finish floor elevation and cells with vertical or horizontal bar reinforcement.

STRUCTURAL WALLS

4.3.8 Typical wall reinforcing for load-bearing, structural CMU walls is noted in structural wall elevations.

NON-STRUCTURAL WALLS

4.3.9 Unless shown otherwise on plans or details, reinforcing for CMU walls not shown in the structural drawings shall be as follows:

Wall Thickness	Vert Reinf	Dowels	Max Height
6 inches	1 #4 @ 48 max	1 #4(0-10/4-0) @ 48 max	18' - 0"
8 inches	1 #5 @ 48 max	1 #5(0-10/4-0) @ 48 max	24' - 0"

Notes:
a) Align and lap dowels with vertical wall reinforcing.
b) At wall openings, see wall opening reinforcing schedule in typical details for reinforcing of jambs and lintels.
c) Post-installed dowels are acceptable at non-structural CMU. Drill & embed dowels 9 bar diameters minimum with adhesive.

4.3.10 Grout and reinforce the first cell at corners, ends of walls, and each side of a control joint with 1 vertical bar for 6- or 8-inch CMU walls or 2 vertical bars for 12-inch CMU walls. Jambs adjacent to openings in structural masonry are to be grouted and reinforced per applicable details.

4.3.11 Install single course depth bond beam with at least one horizontal bar at the top of CMU walls.

SECTION 4.4- CONTROL JOINTS

4.4.1 Do not locate vertical control joints in CMU walls through an opening or within the jamb or lintel bearing adjacent to an opening. Control joints must be vertical from the wall foundation to the top of wall.

4.4.2 See plans for control joint locations in load-bearing CMU walls.

SECTION 4.5- REQUIRED SUBMITTALS

4.5.1 Prior to construction, contractor is to submit CMU reinforcing layout and fabrication drawings for review. Submittal shall contain the following information:
a) CMU wall thickness
b) Material properties
c) Plans and wall elevations that show wall reinforcing details, openings, beam pockets, and lintels
d) Control joint locations

SECTION 5 - STRUCTURAL STEEL

SECTION 5.1- STRUCTURAL FRAME

5.1.1 Structural Steel Properties:

High Strength Steel Use for W Shapes and WT's	ASTM A992 Grade 50
Structural Steel (Normal Strength) Use for Angles, Channels, and Plates, UNO	ASTM A36
Steel Pipes	ASTM A53, Grade B
Hollow Structural Sections (HSS)	ASTM A500, Grade C
Erection Bolts	ASTM A307
High Strength Bolts	ASTM F3125, A325N UNO ASTM F3125, A490N where shown in drawings
Anchor Rods	ASTM F1554 Gr. 36 UNO
High Strength Anchor Rods	ASTM F1554 Gr. 105 where shown in drawings
Headed Stud Anchors	ASTM A29 Gr. 1010-1020, Type B

5.1.2 Continuity Plates (Full Depth column stiffeners aligned with beam flanges, or Full Depth beam stiffeners aligned with column flanges) shall match the steel grade of the base member.

WELDING

5.1.3 Unless otherwise noted, angles, plates, rods, and miscellaneous framing shall be welded at contact joints and supports. Weld sizes shall conform to AWS D1.1 minimums, except where noted otherwise.

5.1.4 Where fillet weld sizes are not indicated on weld symbols, fillet size shall be 1/16th inch smaller than thickness of thinner of materials being joined.

5.1.5 Complete penetration welds are indicated by notation "CJP" on weld symbols, partial penetration by "PJP".

STRUCTURAL BOLTS

5.1.6 Bolts indicated on details shall be 3/4 inch diameter, unless noted otherwise.

5.1.7 Bolts shall be tightened by the AISC "Snug Tight" method unless noted otherwise.

MISCELLANEOUS

5.1.8 Edge angles at perimeters of floors and roofs shall be continuous and spliced per typical details.

5.1.9 Unless noted otherwise, steel members shall be hot dip galvanized at exterior conditions. Field welds to be repaired in accordance with ASTM A780.

COMPOSITE STEEL BEAMS

5.1.10 Beams shall have shear studs spaced at 2 feet maximum on center, unless specifically indicated to have zero studs.

5.1.11 Composite steel beams do not require shoring during placement of concrete slab, unless noted otherwise.

SHEAR STUDS

5.1.12 Shear studs shall be fusion-welded, headed studs of high strength steel.

5.1.13 Unless noted otherwise, studs shall have a shank diameter of 3/4-inch. See details for length of studs measured after welding.

SECTION 5.2- STEEL JOISTS

5.2.1 Joist Legend:
22K6 - SJI K-SERIES JOIST.
24LH8 - SJI LH-SERIES JOIST.
22KSP - SPECIAL DESIGN FOR SPECIFIED LOADING.

5.2.2 Unless noted or detailed otherwise, typical seat depths shall be:
K or KCS Series - 2-1/2 inches
LH or DLH Series - 5 inches

5.2.3 Joists shall be designed for concentrated dead or live load in addition to required uniform dead and live loads, as follows at top and bottom chords:
Joists: 250 lb. placed at any panel point.

5.2.4 Design joists supporting mechanical units to support a concentrated load equal to 60% of the weight shown on plan at any joist panel point. Design joists supporting more than one mechanical unit to support a concentrated load equal to 60% of the sum of the weights shown on plan at any joist panel point. These concentrated loads are in addition to the loads noted above.

5.2.5 See loading diagram for net uplift requirements due to wind load.

5.2.6 Joist loads shown on drawings are nominal Loads per building code and have not been multiplied by ASD (Allowable) nor LRFD (Strength) load multipliers unless specifically noted otherwise.

5.2.7 Deflection shall not exceed L/240 for total load or L/360 for short term loads (live, snow, or wind).

SECTION 5.3- COMPOSITE STEEL DECK

5.3.1 Basis of design assumes the deck is continuous over three spans. Contractor shall review deck properties at conditions that do not meet this assumption.

5.3.2 Contractor shall provide composite metal decking to meet the following criteria:
1. Decking alone shall be capable of supporting the wet weight of concrete plus construction loads without requiring intermediate shoring for all span conditions on the project, unless noted otherwise.
2. Composite slab and deck system shall be capable of supporting design loads indicated on the drawings for all span conditions on the project.
3. Deck thickness, indicated by gage in Composite Steel Deck Schedule, is a minimum and shall be increased as necessary to meet these requirements, at no additional cost to the Contract.

5.3.3 Composite Steel Deck Schedule:
a. See framing plans for location of deck types.
b. Deck yield strength: Fy = 40 ksi minimum

5.3.4

Type Mark	Deck Height	Minimum Gage	Minimum Ip-in4	Minimum In-in4	Minimum Sp-in3	Minimum Sn-in3
CA	3.0"	20	.921	.931	.524	.573

5.3.5 Composite floor system minimum load capacity requirements:

Type	Superimposed Uniform Load (psf)	Concentrated Load (lbs) *
CA	353 psf (8' - 6" span)	See Section 1

*Concentrated load acting on area 2.5 ft x 2.5 ft; not acting simultaneously with uniform load.

5.3.6 See technical specifications for composite deck connection to supporting structure.

SECTION 5.5- STEEL ROOF DECK

5.5.1 Steel Roof Deck Schedule:
a. See framing plans for location of deck types.
b. Typical deck yield strength: Fy = 40 ksi minimum

Deck Type Mark	Deck SDI Deck Profile	Deck Height	Min. Ip in4	Min. In in4	Min. Sp in4	Min. Sn in3	Deck Finish
RA	22 WR	1.5"	.147	.170	.171	.179	G-60
RB	20 DR	3.0"	.725	.946	.464	.506	G-60

5.5.2 Steel Roof Deck Connection Schedule:
a. Shear Capacity listed is allowable (0.6W, 0.7E) and is considered acting in combination with wind uplift pressures.
b. W/N = sheet width/no. connections each sheet.
c. Deck Connections are noted on Plans.

Conn Type Mark	Conn @ Supports (W/N)	Parallel Edges (In)	Sidelap Conn No./Span	Reqd Shear Capacity (PLF)
I	24/4	8	7	336 @ 10'-0" span
II	36/7	6	4	457 @ 6'-0" span

5.5.3 Support and parallel edge connections shall be 5/8" visible diameter arc spot welds. Sidelap connections shall be no. 10 hex head screws.

SECTION 6 - DEFERRED APPROVALS

6.1.1 The following items require deferred approval from the enforcement agency. See specifications for additional design services to be provided by Contractor.
1. Cold formed metal framing
2. Stairs and railings
3. Steel connection design
4. Pre-engineered Metal Building (PEMB)
5. Underslab grout retaining walls for mudskipper system

6.1.2 The design of the above items is by the Contractor/Manufacturer. Contractor/Manufacturer must prepare all necessary calculations and drawings per the Building Code of Jurisdiction under the supervision of a Structural Engineer, registered in the state in which the project is located, and obtain all necessary plan check approvals from the enforcement agency.

6.1.3 Fabrication and installation of the above items shall not be started until detailed plans, specifications and engineering calculations have been accepted and signed by the Architect or Structural Engineer of Record and the signature of the Architect or Professional Engineer who has been delegated responsibility covering the work shown on a particular plan or specification, and approved by the enforcement agency.

6.1.4 Submittal documents for deferred items shall be submitted to the registered design professional in responsible charge, who shall review them and forward them to the building official with a notation indicating that the deferred documents have been reviewed and that they have been found to be in general conformance with the design of the building. The deferred items shall NOT be installed until their design and submittal documents have been approved by the building official.

Notes continue on S1.2

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LAFP PROJ. NO. 24081 FIRM REG. NO. F-537

Revision / Date
1 05/07/25 Addendum 1
2 05/14/25 Addendum 3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
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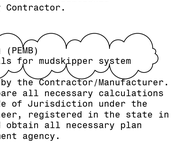
KYLE, TX



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GENERAL NOTES

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Job No. 01954-08-01	Sheet No. S1.1
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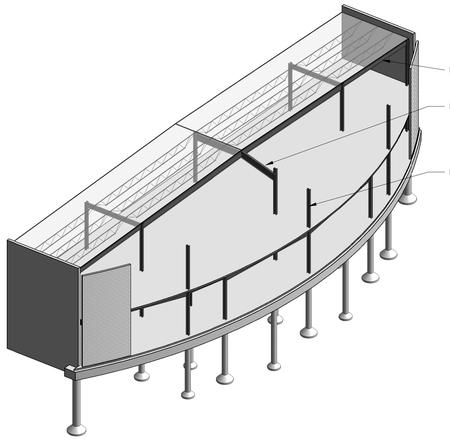
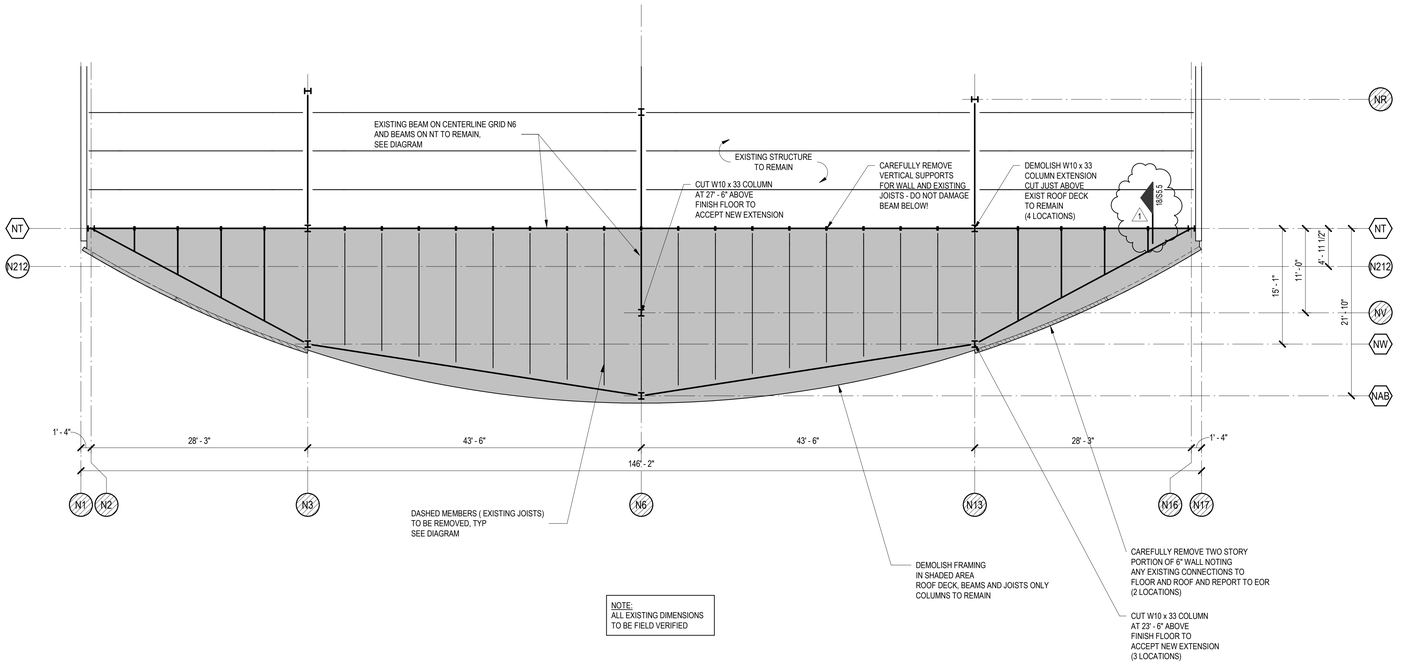
Date: 04/22/2025	

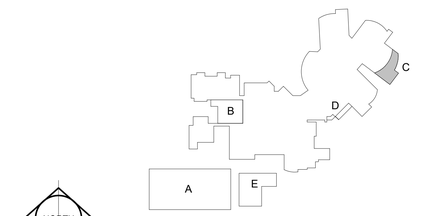


2 AREA C - DEMO AXON



1 ROOF DEMOLITION PLAN - AREA C

1/8" = 1'-0"



KEY PLAN

NORTH

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1	05/14/25	Addendum 3

Project:

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KYLE, TX

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ROOF DEMOLITION PLAN AREA C

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Job No. 01954-08-01	Sheet No. ISSUE FOR BID
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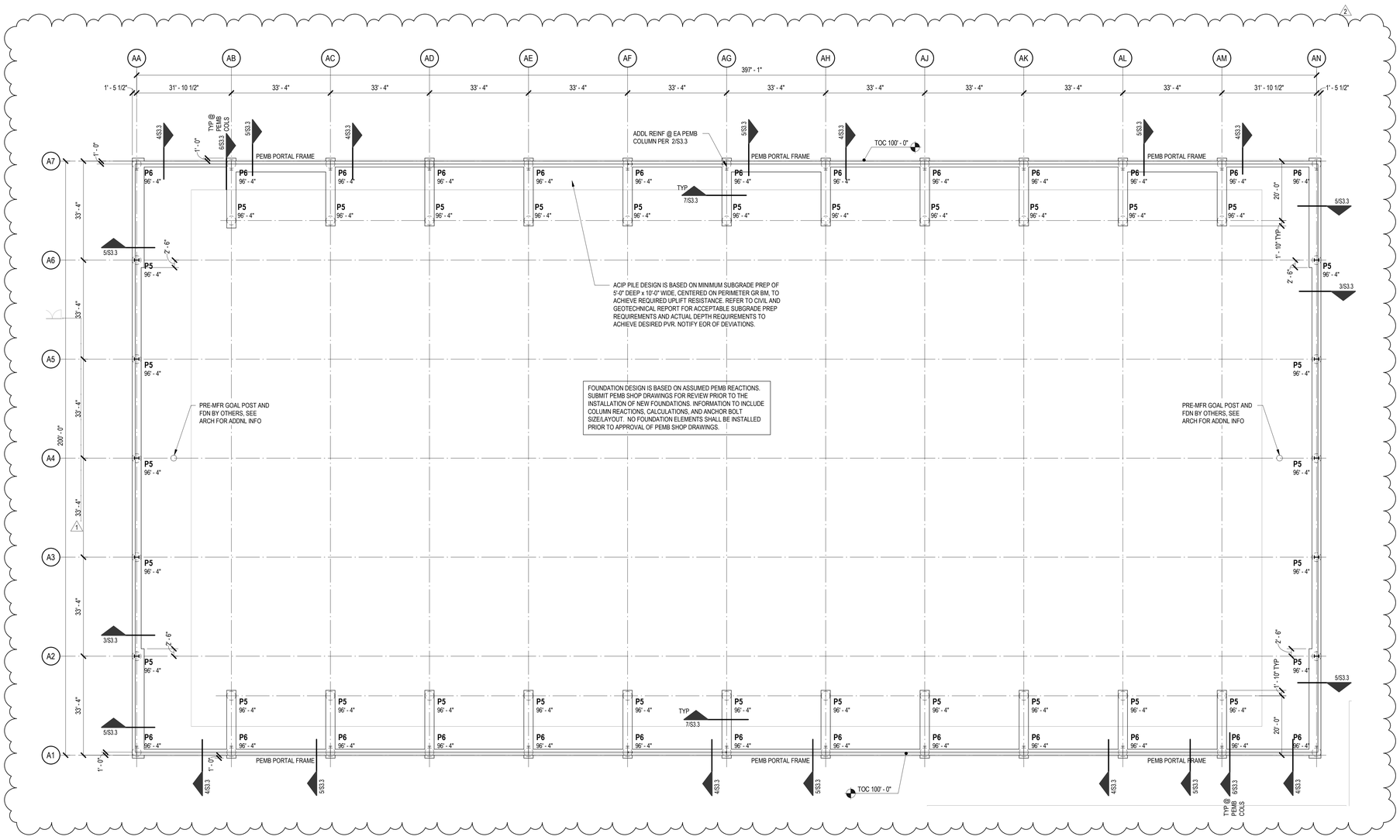


1 FOUNDATION PLAN - AREA A

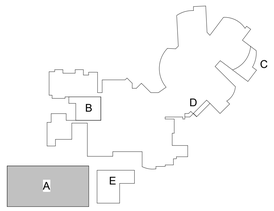
1/16" = 1'-0"

NORTH

FOUNDATION PLAN NOTES

1. SEE PLAN FOR TOP OF CURB ELEVATION (RELATIVE TO DATUM 100'-0").
2. SHEET INDEX:

GENERAL NOTES	S1.1
TYPICAL CONC DETAILS	S3.1, S3.2
PIER SCHEDULE	S3.1
STEEL COLUMN SCHEDULE	S5.1
VERTICAL BRACES	S6.1



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1	Addendum 1 05/07/25
2	Addendum 3 05/14/25

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FOUNDATION PLAN - AREA A

PACKAGE VOLUME

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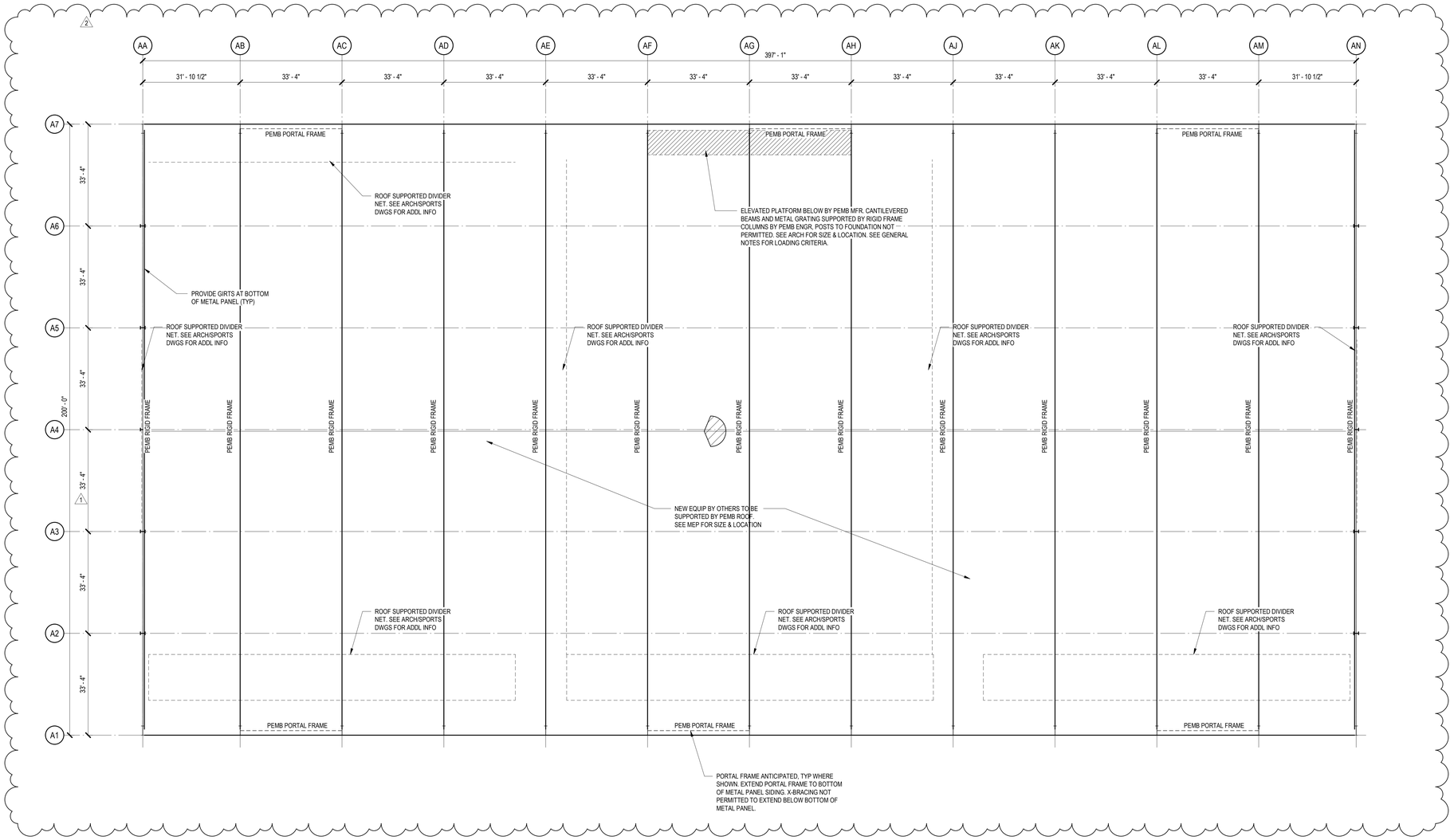
S2.1A1



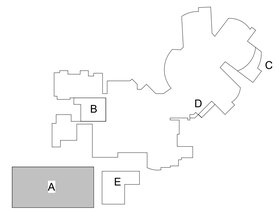
1 ROOF FRAMING PLAN - AREA A

1/16" = 1'-0"

PEMB PLAN NOTES

1. PEMB SUPPLIER SHALL BE RESPONSIBLE FOR THE ENTIRE DESIGN OF THE STEEL SUPERSTRUCTURE INCLUDING FLOORS ABOVE GRADE, ROOFING SUPPORT, FASCIAS, FACADE SUPPORT, ANCHOR BOLT LAYOUT & DESIGN, TEMPORARY BRACING, LATERAL ANALYSIS AND RELATED WORK.
2. REFER TO INCLUDED STRUCTURAL NARRATIVE FOR ADDITIONAL INFORMATION REGARDING PEMB DESIGN CRITERIA.

NORTH



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ROOF FRAMING PLAN - AREA A

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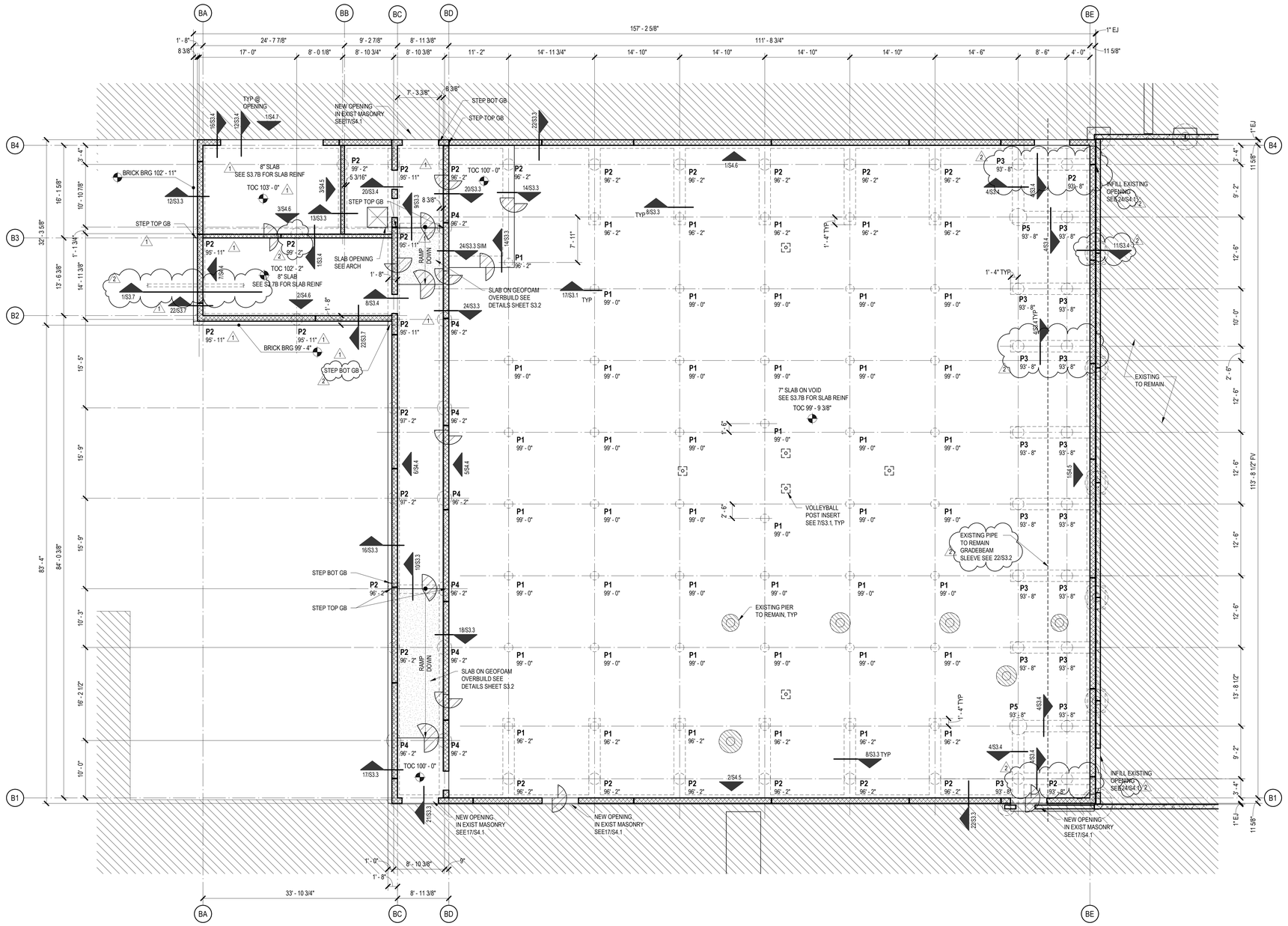


1 FOUNDATION PLAN - AREA B

1/8" = 1'-0"

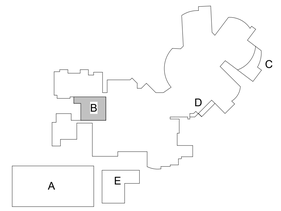
NORTH

FOUNDATION PLAN NOTES

1. FINISH FLOOR ELEVATION IS SHOWN ON PLAN (RELATIVE TO DATUM 100'-0").
2. TOP OF CONCRETE SLAB IS FINISH FLOOR UNLESS SHOWN OTHERWISE.
3. SHEET INDEX:

GENERAL NOTES	S1.1
TYPICAL CONC DETAILS	S3.1, S3.2
PIER SCHEDULE	S3.1
STEEL COLUMN SCHEDULE	S5.1
VERTICAL BRACES	S6.1

4. TYPICAL CONCRETE SLAB THICKNESS IS 8" (OVERALL) UNLESS NOTED OTHERWISE.
5. BRICK LEDGE ELEVATION IS 8" BELOW FINISH FLOOR UNLESS SHOWN OTHERWISE.
6. TOP AND BOTTOM REINFORCING IN FLAT SLAB SHALL BE PLACED IN PROPER SEQUENCE - SEE SLAB REINFORCEMENT PLANS AND DETAIL.



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FOUNDATION PLAN - AREA B

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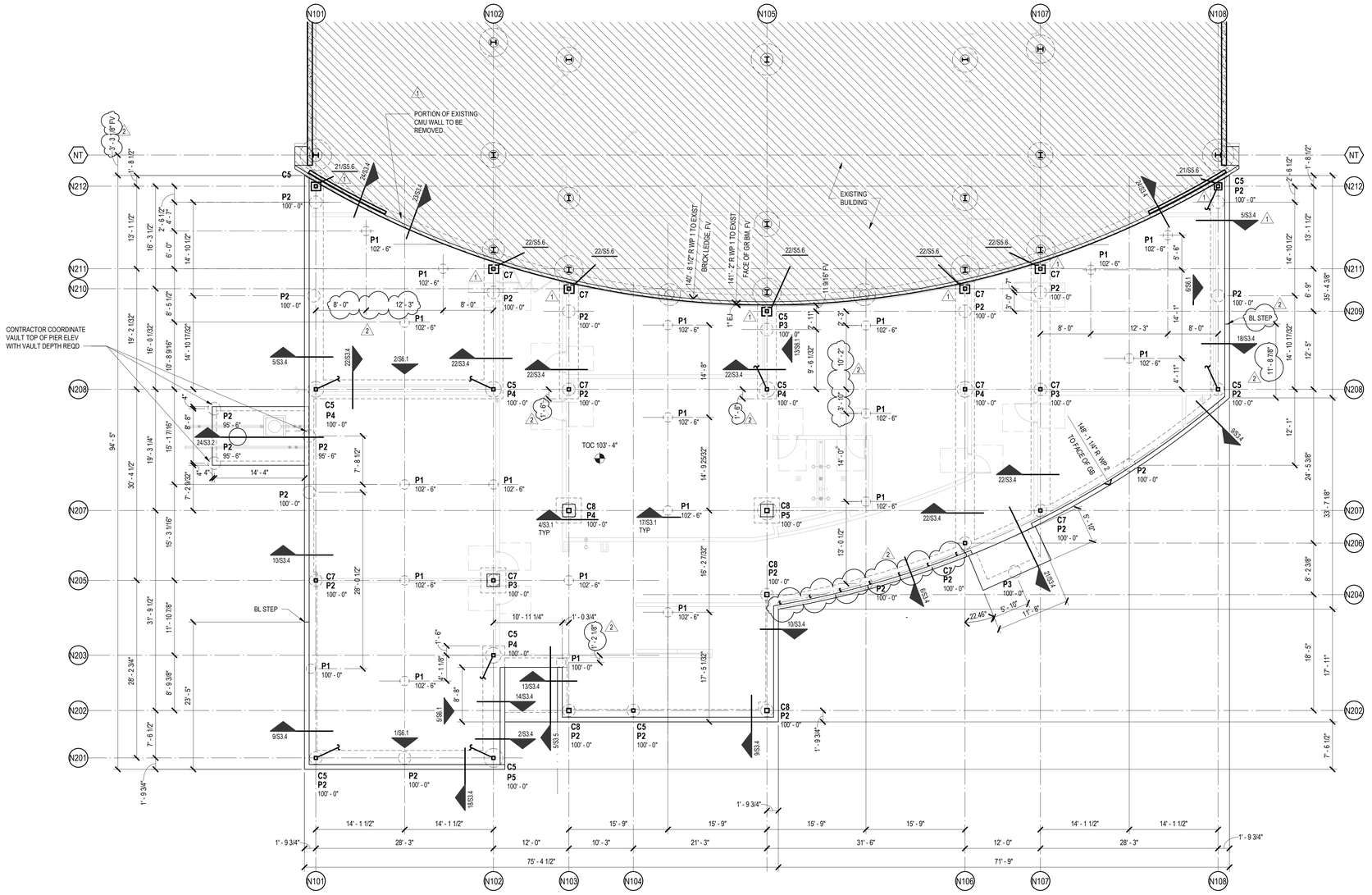

1 FOUNDATION PLAN - AREA C

1/8" = 1'-0"

FOUNDATION PLAN NOTES

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3. SHEET INDEX:

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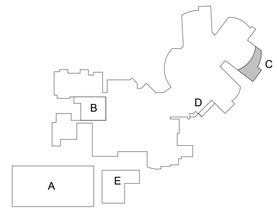
TYPICAL CONC DETAILS	S3.1, S3.2
PIER SCHEDULE	S3.1
STEEL COLUMN SCHEDULE	S5.1
VERTICAL BRACES	S6.1

4. TYPICAL CONCRETE SLAB THICKNESS IS 8" (OVERALL) UNLESS NOTED OTHERWISE.
5. BRICK LEDGE ELEVATION IS 8" BELOW FINISH FLOOR UNLESS SHOWN OTHERWISE.
6. TOP AND BOTTOM REINFORCING IN FLAT SLAB SHALL BE PLACED IN PROPER SEQUENCE - SEE SLAB REINFORCEMENT PLANS AND DETAIL.

NORTH



KEY PLAN

L.A. FUESS PARTNERS, INC.
Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537

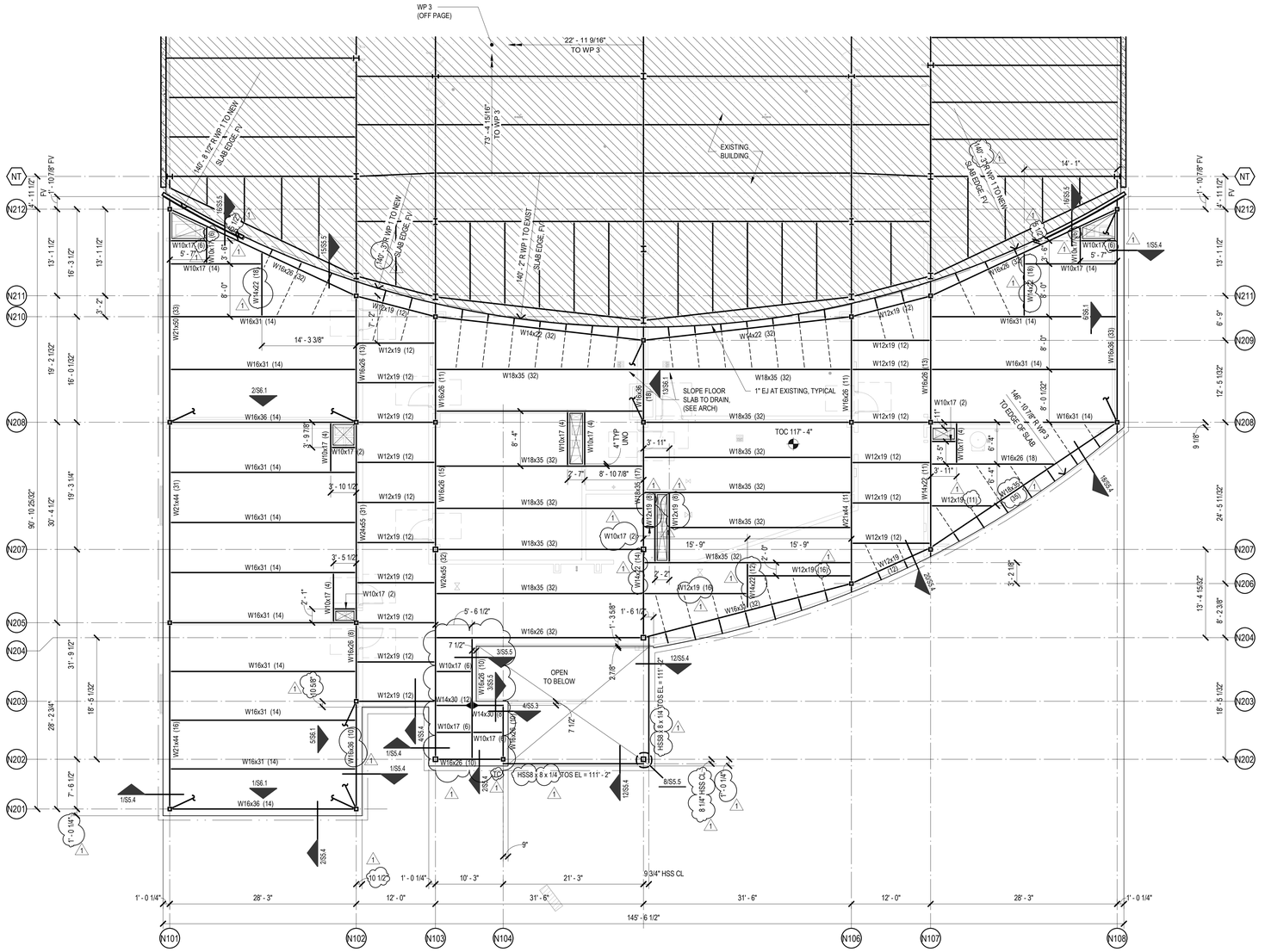
Revision /	Date	
1	05/07/25	Addendum 1
2	05/14/25	Addendum 3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

Huckabee
www.huckabee-inc.com
800.687.1229

FOUNDATION PLAN - AREA C

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S2.1C1
Drawn By: LAFP	
Date: 04/22/2025	



1 LEVEL 2 FRAMING PLAN - AREA C

1/8" = 1'-0"

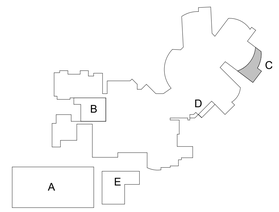
NORTH

LEVEL 2 FRAMING PLAN NOTES

1. FINISH FLOOR ELEVATION IS SHOWN ON PLAN (RELATIVE TO DATUM 100'-0").
2. TOP OF CONCRETE SLAB IS FINISH FLOOR UNLESS SHOWN OTHERWISE.
3. SHEET INDEX:

GENERAL NOTES	S1.1
STEEL COLUMN SCHEDULE	S5.1
MASONRY TYPICAL DETAILS	S4.1, S4.2
MASONRY WALL ELEVATIONS	S4.3, S4.4, S4.5, S4.6, S4.7
STEEL TYPICAL DETAILS	S5.1, S5.2, S5.3

4. UNLESS SHOWN OTHERWISE, STEEL BEAMS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES AND WALLS.
5. NUMBER OF SHEAR STUDS IS NOTED IN PARENTHESES ( ) ADJACENT TO BEAM SIZES. SEE TYPICAL DETAILS FOR LAYOUT REQUIREMENTS OF STUDS.



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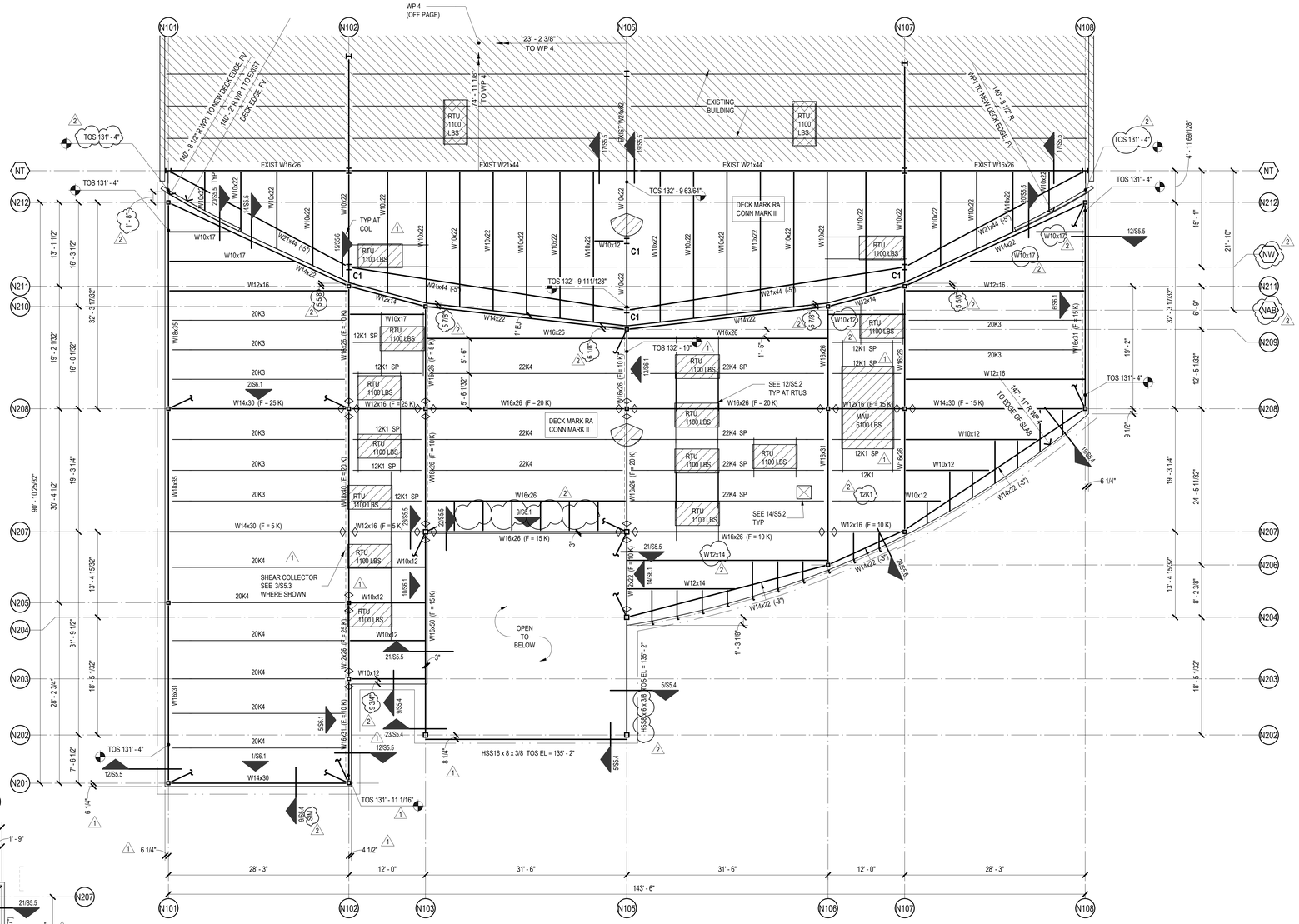
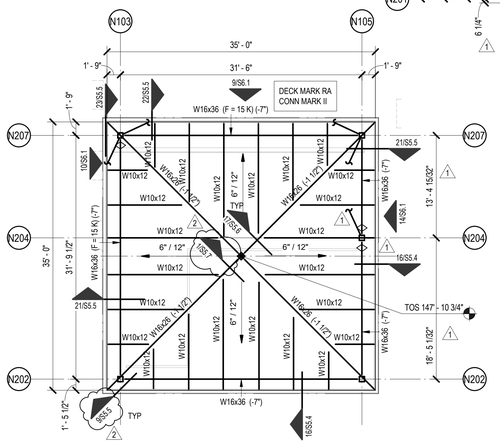
LEVEL 2 FRAMING PLAN - AREA C

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S2.1C2
Drawn By: LAFP	
Date: 04/22/2025	





2 HIGH ROOF FRAMING PLAN - AREA C

1/8" = 1'-0"

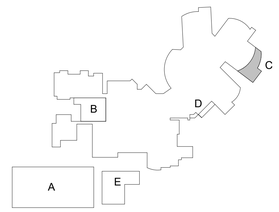
1 ROOF FRAMING PLAN - AREA C

1/8" = 1'-0"

NORTH

ROOF PLAN NOTES

1. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE TOP OF STEEL ELEVATIONS NOTED ON FRAMING PLANS, SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES AND WALLS UNO.
2. TOP OF STEEL ELEVATIONS SHOWN ON PLAN ARE BOTTOM OF ROOF DECK (TOP OF BEAM OR JOIST). ELEVATIONS ARE SHOWN RELATIVE TO DATUM 100'-0" UNO. SEE GENERAL NOTES FOR MORE INFO.
3. UNLESS NOTED OTHERWISE, STEEL JOISTS/BEAMS SHALL BE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
4. JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DESIGNED FOR TYPICAL ROOF LOADING PLUS A CONCENTRATED LOAD OF 60% OF INDICATED EQUIPMENT WEIGHT PLACED AT ANY PANEL POINT.
5. ADDITIONAL LOADS FOR ROOF JOISTS ARE ALSO SPECIFICED IN THE STRUCTURAL DETAILS AND ARE IN ADDITION TO THE DESIGN LOADS AND ANY ADDITIONAL LOADS NOTED ON THE STRUCTURAL FRAMING PLANS.
6. SEE S1.5 FOR COMPONENTS AND CLADDING WIND PRESSURES, INCLUDING JOIST NET UPLIFT DESIGN REQUIREMENTS



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LICENSED
PROFESSIONAL ENGINEER
5-14-2025

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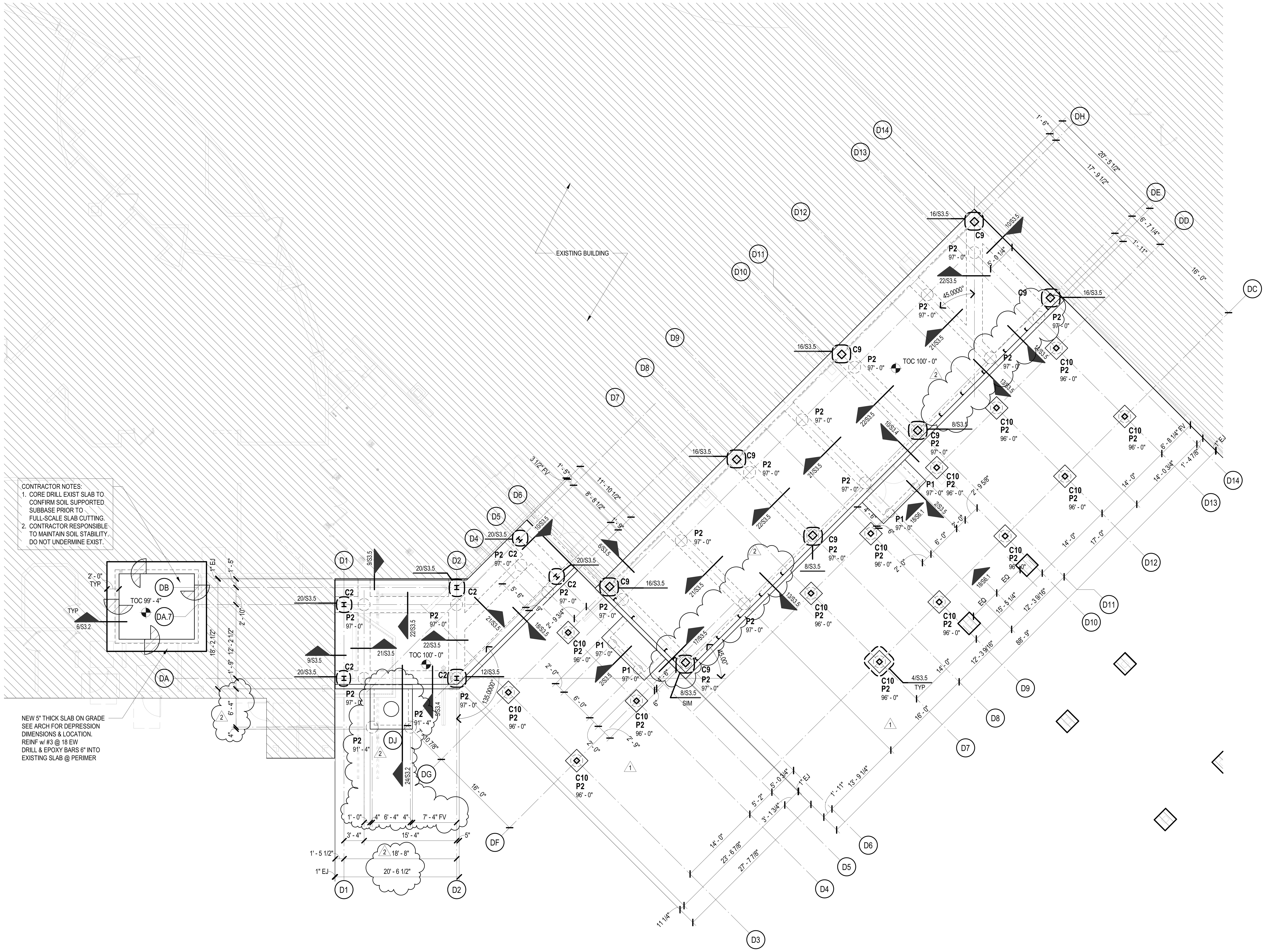
ROOF FRAMING PLAN - AREA C

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. S2.1C3
Drawn By: LAFP	ISSUE FOR BID
Date: 04/22/2025	



1 FOUNDATION PLAN - AREA D

1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. FINISH FLOOR ELEVATION IS SHOWN ON PLAN (RELATIVE TO DATUM 100'-0").
2. TOP OF CONCRETE SLAB IS FINISH FLOOR UNLESS SHOWN OTHERWISE.
3. SHEET INDEX:

GENERAL NOTES	S1.1
TYPICAL CONC DETAILS	S3.1, S3.2
PIER SCHEDULE	S3.1
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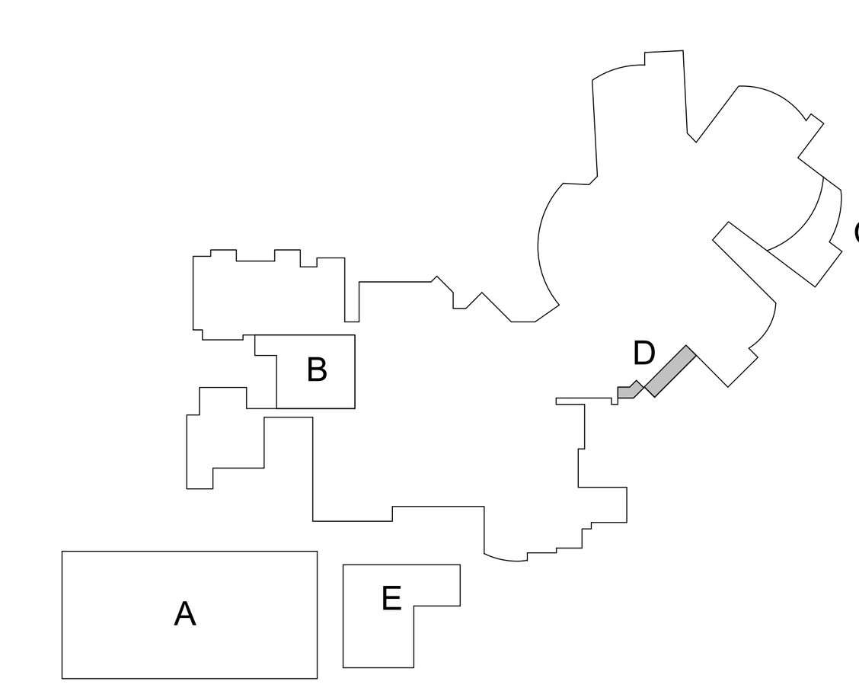
6. TOP AND BOTTOM REINFORCING IN FLAT SLAB SHALL BE PLACED IN PROPER SEQUENCE - SEE SLAB REINFORCEMENT PLANS AND DETAIL.



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STATE OF TEXAS
CHERYL R. STEWART
117498
LICENSED
PROFESSIONAL ENGINEER
5-14-2025

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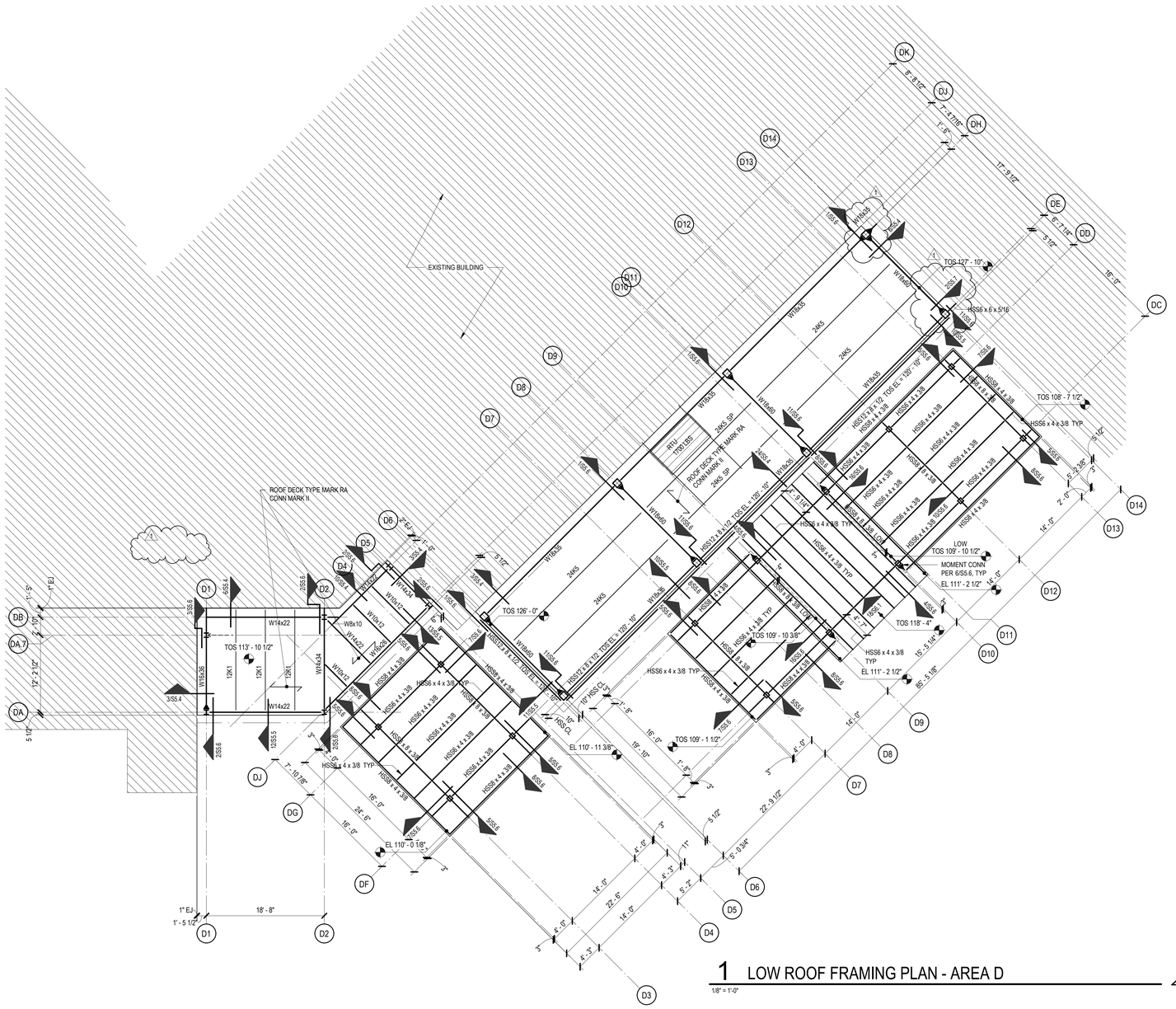
FOUNDATION PLAN - AREA D

PACKAGE VOLUME

Job No.: 01954-08-01
Drawn By: LAFP
Date: 04/22/2025
Sheet No.: ISSUE FOR BID
S2.1D1



1 LOW ROOF FRAMING PLAN - AREA D

1/8" = 1'-0"

NORTH

ROOF PLAN NOTES

1. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE TOP OF STEEL ELEVATIONS NOTED ON FRAMING PLANS, SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES AND WALLS UNO.
2. TOP OF STEEL ELEVATIONS SHOWN ON PLAN ARE BOTTOM OF ROOF DECK (TOP OF BEAM OR JOIST). ELEVATIONS ARE SHOWN RELATIVE TO DATUM 100'-0" UNO. SEE GENERAL NOTES FOR MORE INFO.
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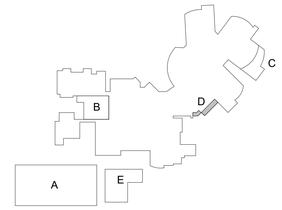
6. SEE S1.5 FOR COMPONENTS AND CLADDING WIND PRESSURES, INCLUDING JOIST NET UPLIFT DESIGN REQUIREMENTS



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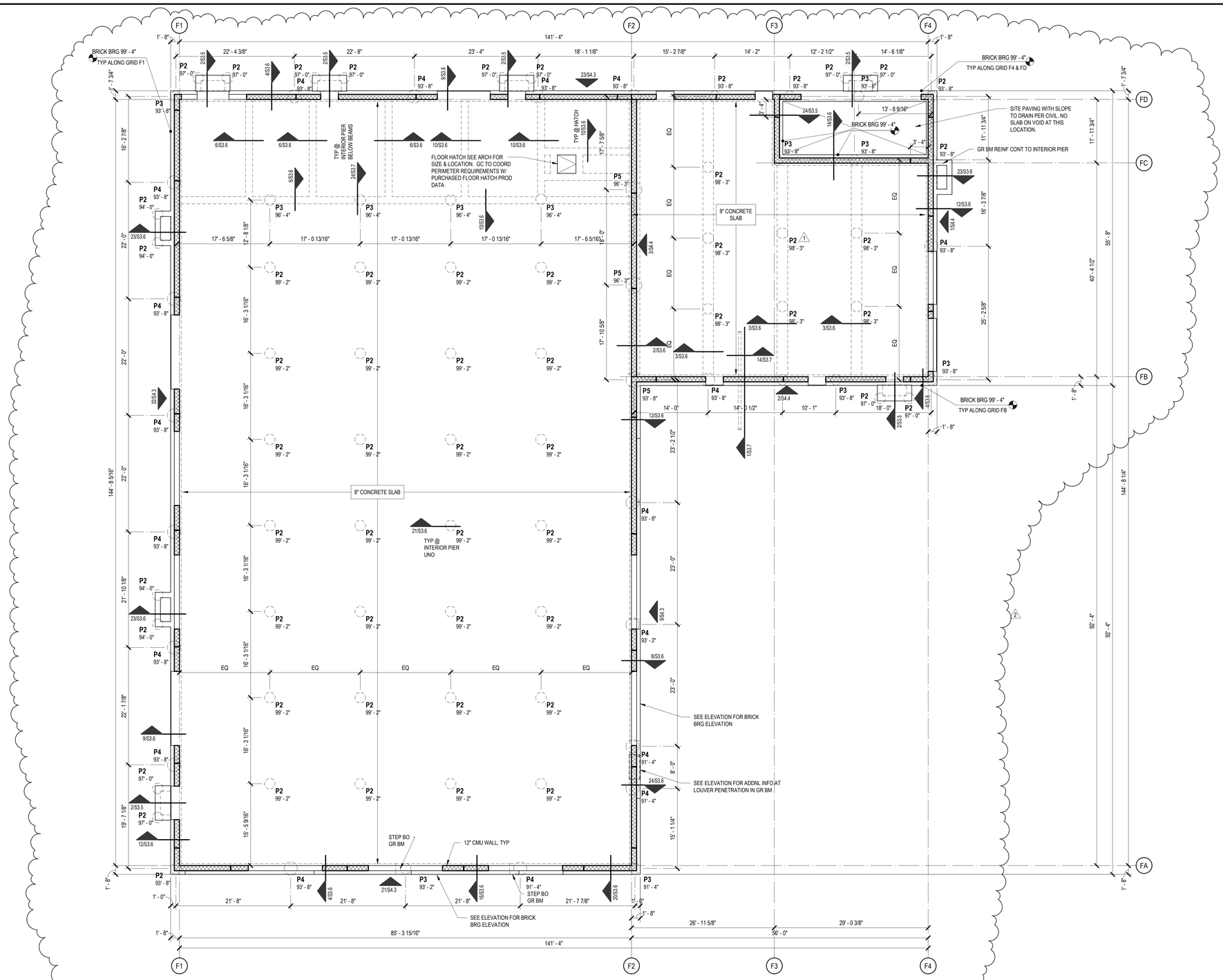
ROOF FRAMING PLAN - AREA D

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S2.1D2
Drawn By: LAFP	
Date: 04/22/2025	



1 FOUNDATION PLAN - AREA E

1/8" = 1'-0"

NORTH

FOUNDATION PLAN NOTES

1. FINISH FLOOR ELEVATION IS SHOWN ON PLAN (RELATIVE TO DATUM 100'-0").
2. TOP OF CONCRETE SLAB IS FINISH FLOOR UNLESS SHOWN OTHERWISE.
3. SHEET INDEX:

GENERAL NOTES	S1.1
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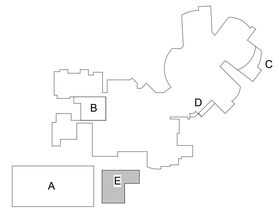
6. TOP AND BOTTOM REINFORCING IN FLAT SLAB SHALL BE PLACED IN PROPER SEQUENCE - SEE SLAB REINFORCEMENT PLANS AND DETAIL.



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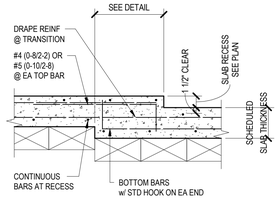
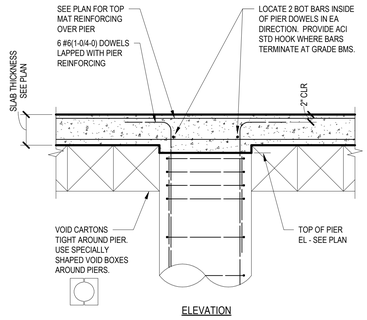
FOUNDATION PLAN - AREA E

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S2.1E1
Drawn By: LAFP	
Date: 04/22/2025	



21 RECESS IN SLAB ON VOID TYPICAL DETAIL

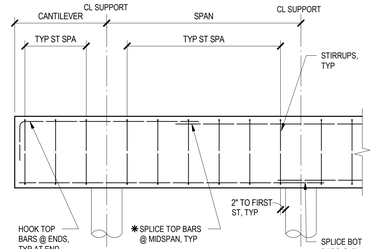
NO SCALE



ELEVATION

17 GROUND FLOOR TOP OF PIER TYPICAL DETAIL

NO SCALE TD02167

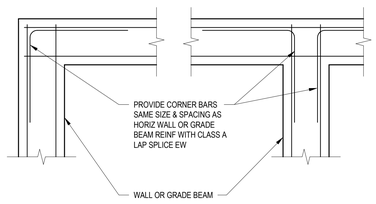


ELEVATION

✱ TOP BARS CONT AT CANTILEVERS, CANTILEVER BACKSPANS AND SPANS LESS THAN 10' - 0".

13 GRADE BEAM REINF TYPICAL DETAIL

NO SCALE TD03141

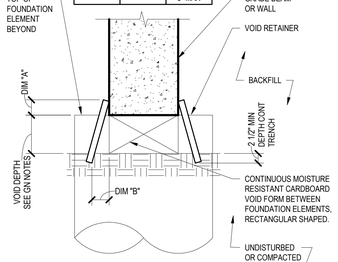


PLAN VIEW

9 CORNER BARS TYPICAL DETAIL

NO SCALE TD03026

VOID DEPTH	DIM "A"	DIM "B"
6" - 8"	3" MIN	3" MIN 5" MAX
10" - 12"	4" MIN	4" MIN 6" MAX
18"	4" MIN	4" MIN 6" MAX



5 VOID BOX - BM OR WALL TYPICAL DETAIL

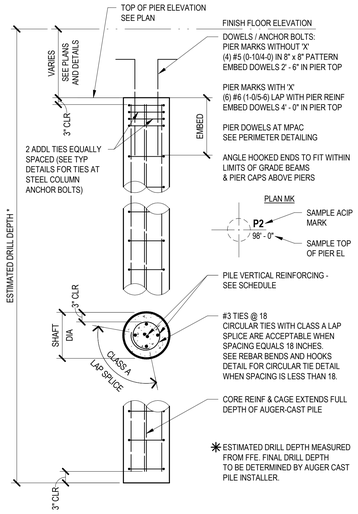
NO SCALE TD02526

AUGERED CAST-IN-PLACE PILE SCHEDULE

PIER MARK	SHAFT DIAMETER	VERTICAL REINF	DRILL DEPTH	DESIGN LOAD - KIPS
P1	18"	(6) #5 + (1) #9 CORE	30' - 0"	92 K COMP / -18 K T
P2	24"	(8) #6 + (1) #10 CORE	32' - 0"	141 K COMP / -8 K T
P3	24"	(8) #6 + (1) #10 CORE	35' - 0"	170 K COMP / 17 K T
P4	30"	(14) #6 + (1) #11 CORE	35' - 0"	212 K COMP / 21 K T
P5	36"	(14) #7 + (1) #14 CORE	35' - 0"	254 K COMP / 25 K T
P6 ✱	36"	(14) #7 + (1) #14 CORE	35' - 0"	254 K COMP / 77 K T

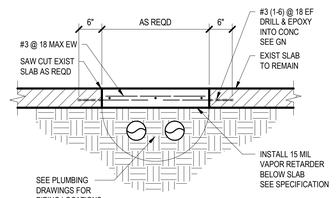
✱ P6 HAS SPECIFIC SUBGRADE PREP REQUIREMENTS, AS NOTED ON FOUNDATION AREA PLANS, TO ACHIEVE REQUIRED UPLIFT CAPACITY.

NOTE: UPLIFT DESIGN LOAD NOTED IN ACIP PILE SCHEDULE IS NET CAPACITY REDUCED BY SOIL INDUCED UPLIFT NOTED IN THE GEOTECHNCIAL REPORT.



2 AUGURED CAST-IN-PLACE PILE TYPICAL DETAIL

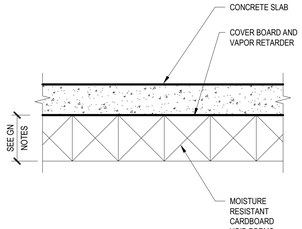
NO SCALE TD02110 ACIP



NOTES:
1. CONTRACTOR CORE DRILL SLAB TO CONFIRM SLAB IS SOIL SUPPORTED PRIOR TO FURTHER TRENCHING
2. CONTRACTOR RESPONSIBLE TO MAINTAIN SOIL STABILITY OF FOUNDATION. DO NOT UNDERMINE EXISTING FOUNDATION.

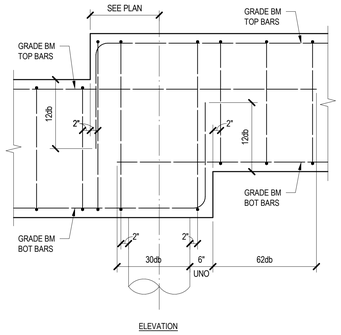
22 EXIST SLAB-ON-GRADE TRENCH TYPICAL DETAIL

NO SCALE 319



18 VOID BOX - SLAB TYPICAL DETAIL

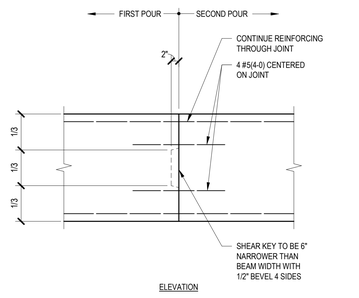
NO SCALE TD02501



ELEVATION

14 STEP IN GRADE BEAM TYPICAL DETAIL

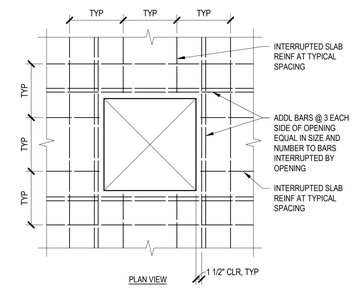
NO SCALE TD03144



ELEVATION

10 GRADE BEAM CONSTR JOINT TYPICAL DETAIL

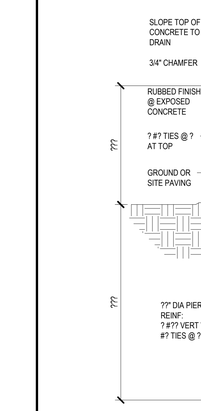
NO SCALE TD03140



PLAN VIEW

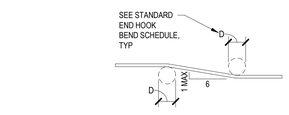
6 SLAB OPENING TYPICAL DETAIL

NO SCALE TD03343

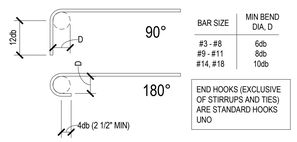


24 SITE LIGHT POLE FOUNDATION TYPICAL DETAIL

NO SCALE TD02111



OFFSET BARS



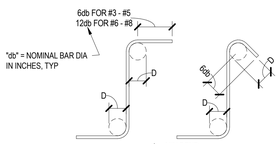
BAR SIZE	MIN BEND DIA, D
#3 - #8	6db
#9 - #11	8db
#14, #18	10db

END HOOKS (EXCLUSIVE OF STIRRUPS AND TIES) ARE STANDARD HOOKS UNO

STANDARD END HOOKS

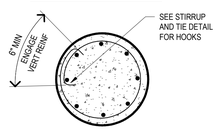
19 REBAR BENDS AND HOOKS TYPICAL DETAIL

NO SCALE TD03201



BAR SIZE	MIN BEND DIA, D
#3 - #5	4db
#6 - #8	6db

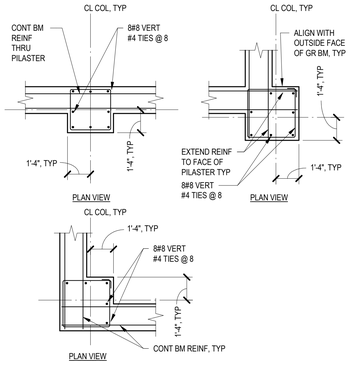
STIRRUPS AND TIES



ROUND STIRRUPS AND TIES

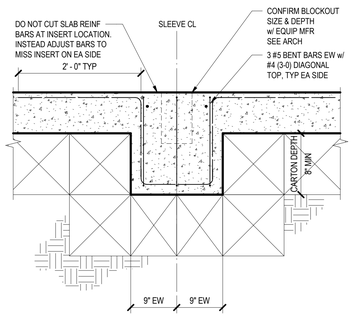
11 PILASTER REINFORCING TYPICAL DETAIL

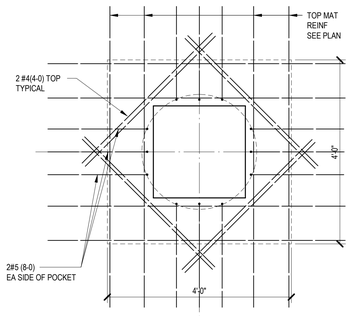
NO SCALE TD03150

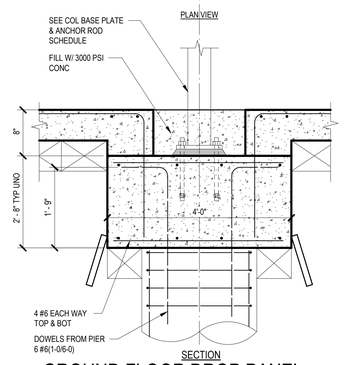


7 VOLLEYBALL POLE INSERT TYPICAL DETAIL

NO SCALE 308 SOV



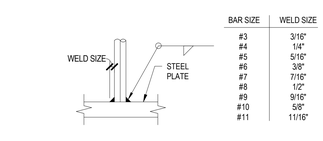




SECTION

4 GROUND FLOOR DROP PANEL TYPICAL DETAIL

NO SCALE TD02166A



BAR SIZE	WELD SIZE
#3	3/16"
#4	1/4"
#5	5/16"
#6	3/8"
#7	7/16"
#8	1/2"
#9	9/16"
#10	5/8"
#11	11/16"

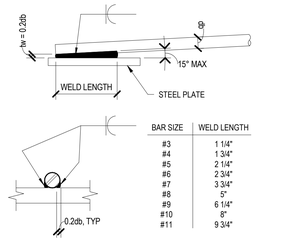
BAR PERPENDICULAR TO PLATE

BAR SIZE	MINIMUM SPLICE LENGTH
#3	1"
#4	1 1/4"
#5	1 1/2"
#6	1 3/4"
#7	2"
#8	2 1/4"
#9	2 1/2"
#10	3"
#11	3 1/4"

BAR SPLICE

20 REBAR WELDING TYPICAL DETAIL

NO SCALE TD03202

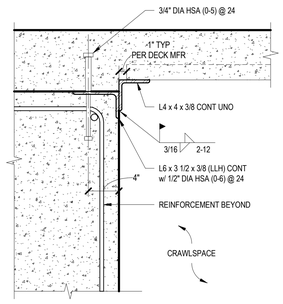


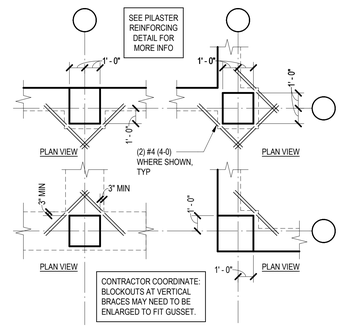
BAR SIZE	WELD LENGTH
#3	1 1/4"
#4	1 3/4"
#5	2 1/4"
#6	2 3/4"
#7	3 3/4"
#8	5"
#9	6 1/4"
#10	8"
#11	9 3/4"

BAR PARALLEL TO PLATE

12 FLOOR DECK SUPPORT TYPICAL DETAIL

NO SCALE





8 SLAB ON VOID CARTON COLUMN BLOCKOUTS TYPICAL DETAIL

NO SCALE 310

Addendum 3
Date 05/14/25
Revision / 1

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

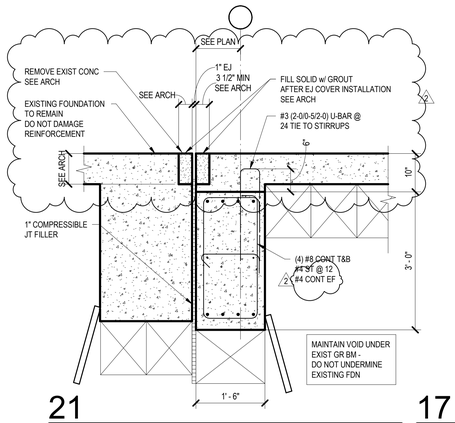
Huckabee
www.huckabee-inc.com
800.687.1229

TYPICAL CONCRETE DETAILS

PACKAGE	VOLUME

Job No. 01954-08-01
Drawn By: LAFP
Date: 04/22/2025
Sheet No. ISSUE FOR BID S3.1

L.A. FUESS PARTNERS, INC.
Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537



21

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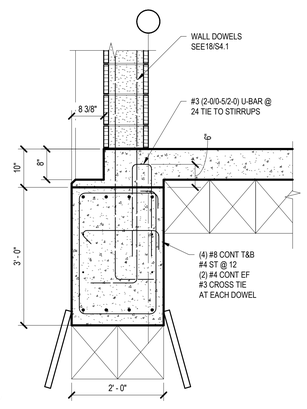

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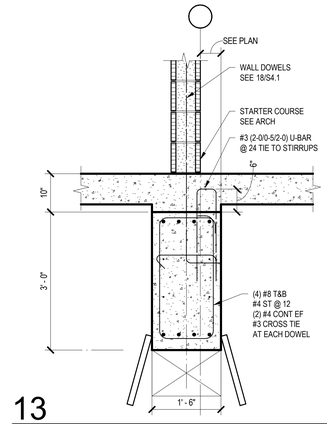

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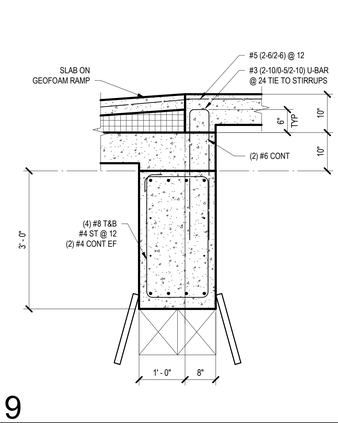

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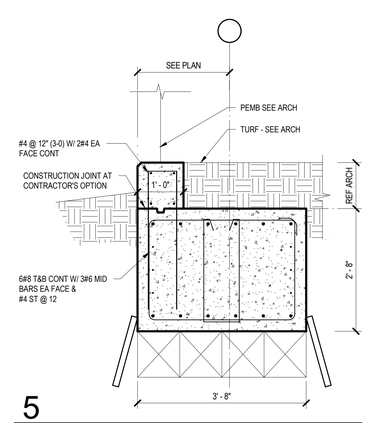

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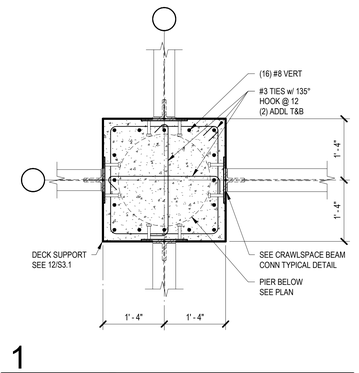

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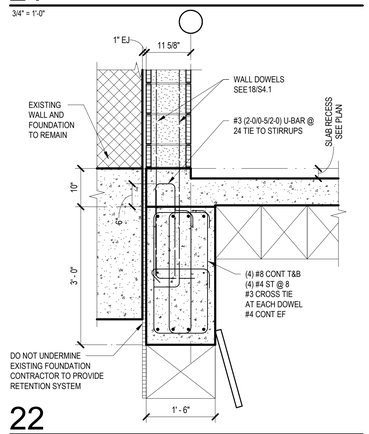

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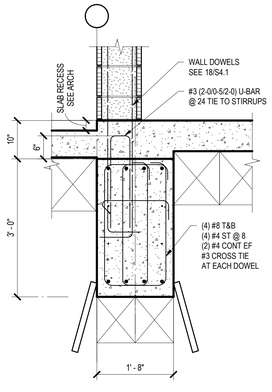

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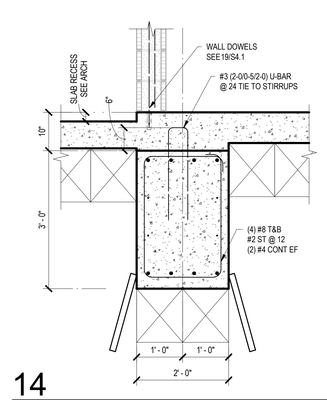

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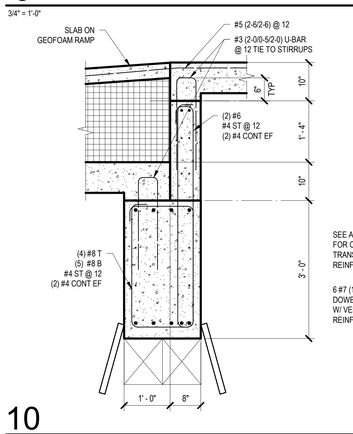

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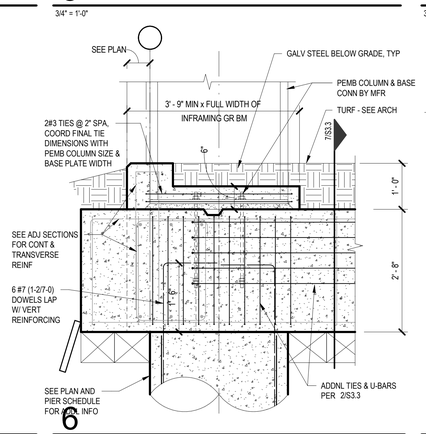

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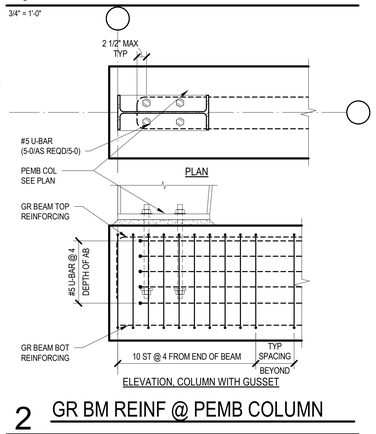

2 GR BM REINF @ PEMB COLUMN

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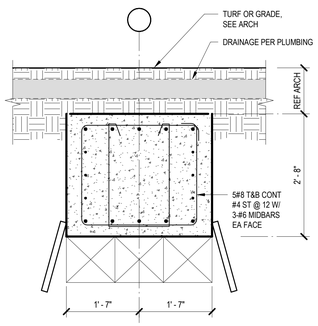

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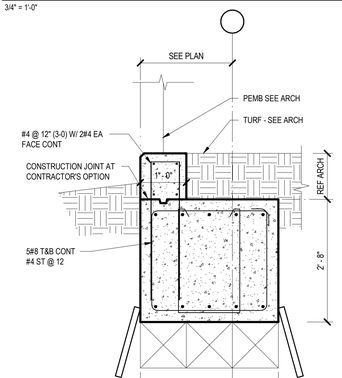

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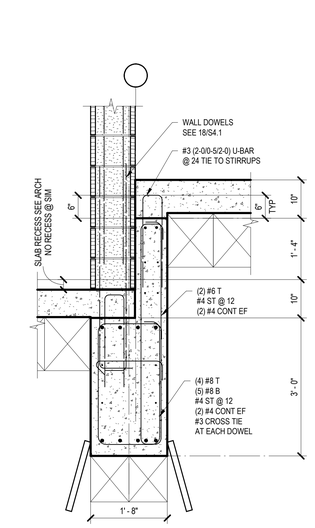

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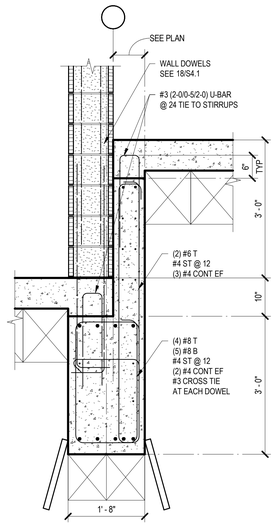

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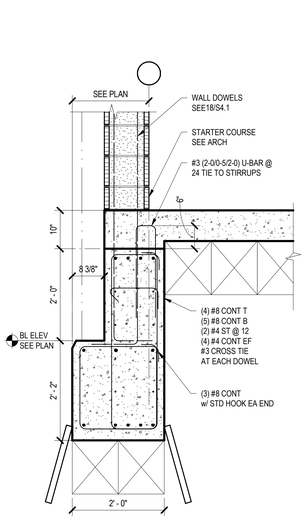

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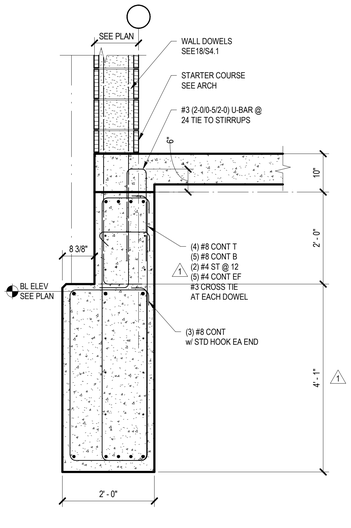

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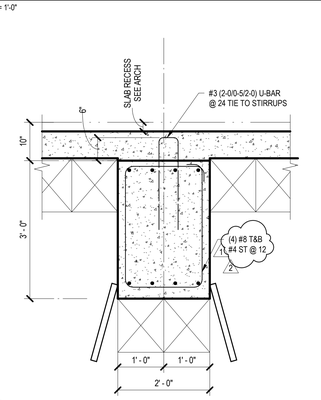

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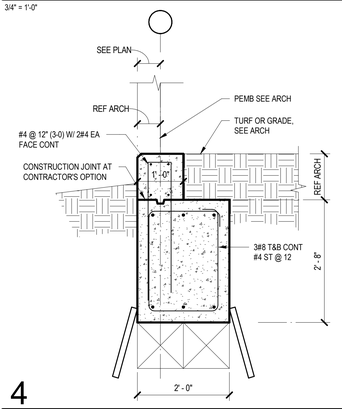

4

3/4" = 1'-0"

Revision / Date
1 05/07/25 Addendum 1
2 05/14/25 Addendum 3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

CHERYL R. STEWART 117468 LICENSED PROFESSIONAL ENGINEER 04-14-2025

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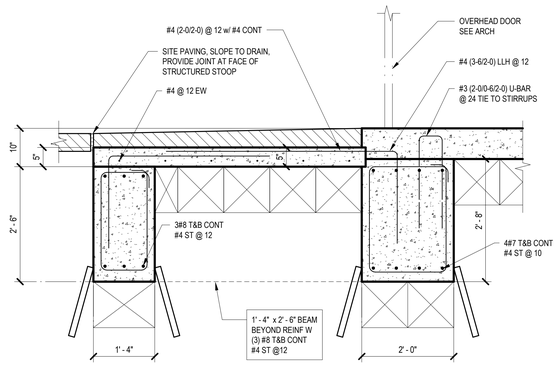
CONCRETE DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S3.3
Drawn By: LAFP	
Date: 04/22/2025	

L.A. FUESS PARTNERS, INC.
Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537



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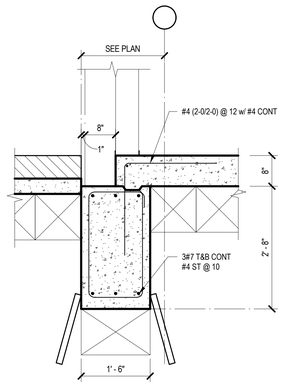

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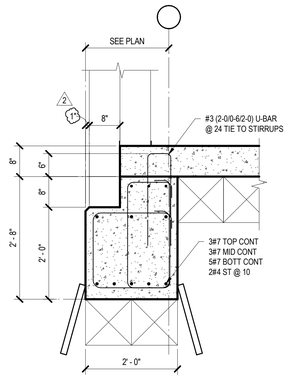

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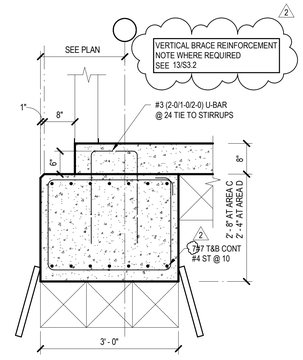

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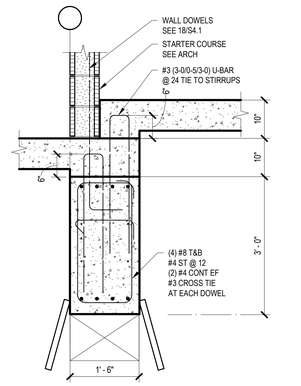

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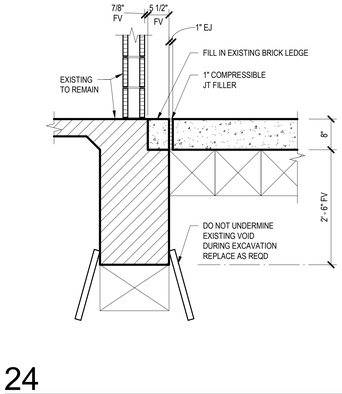

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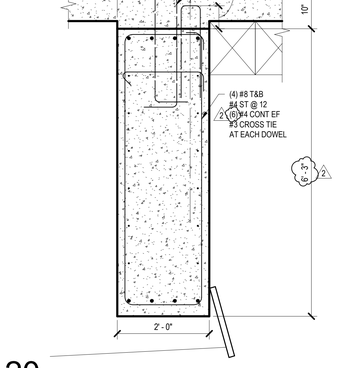

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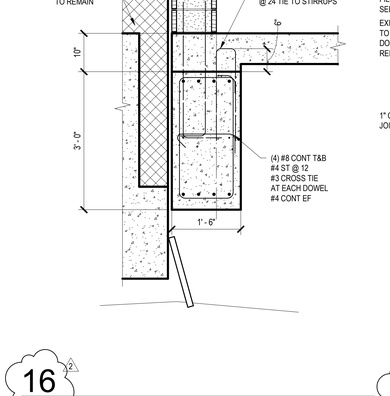

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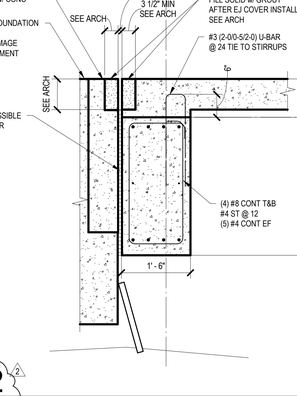

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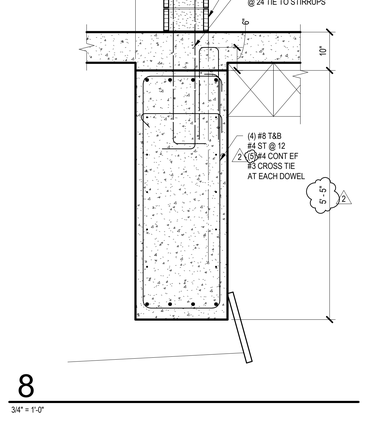

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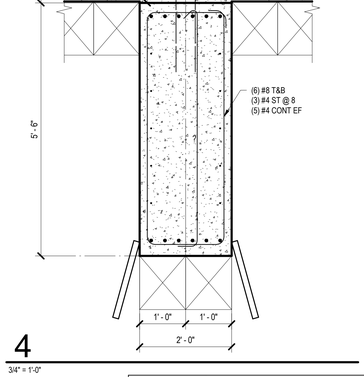

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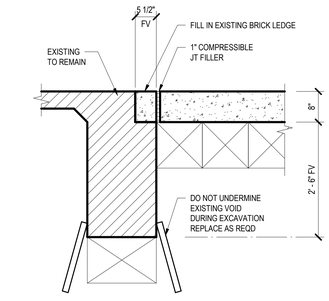

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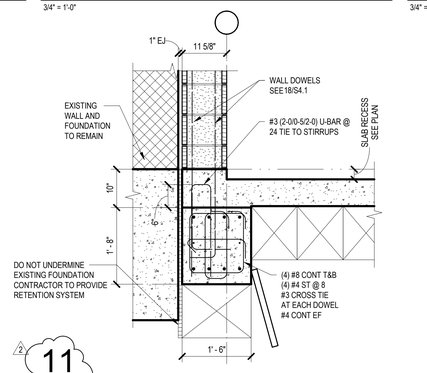

11

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8

3/4" = 1'-0"

24

3/4" = 1'-0"

20

3/4" = 1'-0"

16

3/4" = 1'-0"

12

3/4" = 1'-0"

8

3/4" = 1'-0"

4

3/4" = 1'-0"

L.A. FUESS PARTNERS, INC.
Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537

Revision / Date
1 05/07/25 Addendum 1
2 05/14/25 Addendum 3

Project:
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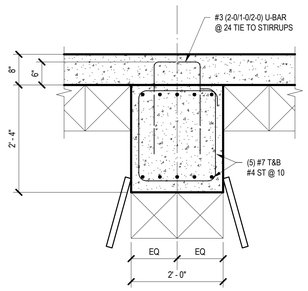
CONCRETE DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. S3.4
Drawn By: LAFP	ISSUE FOR BID
Date: 04/22/2025	



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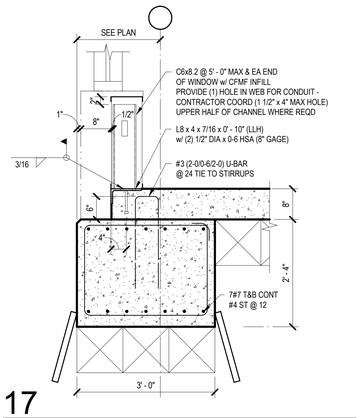

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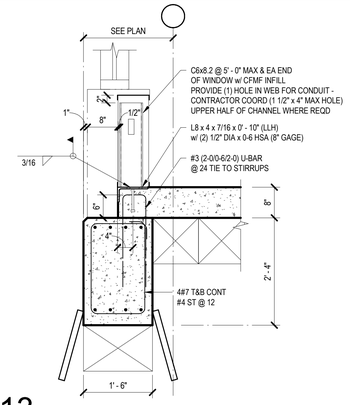

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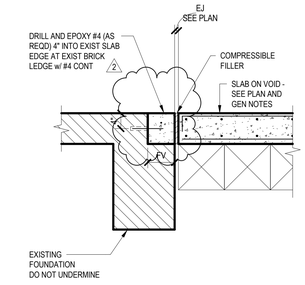

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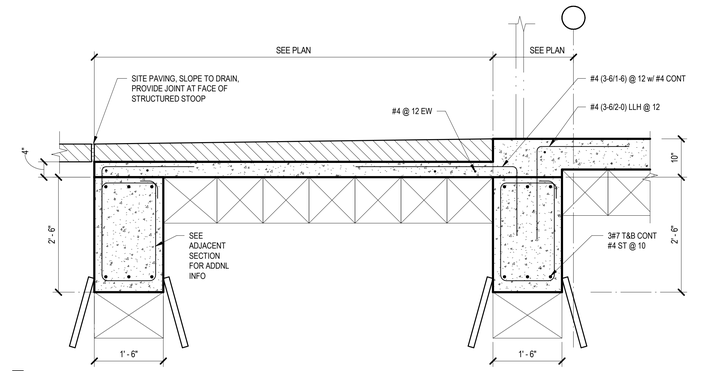

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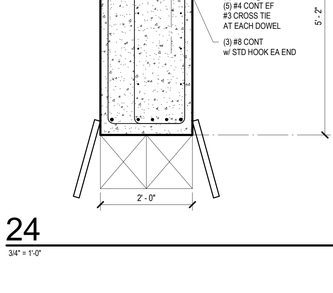

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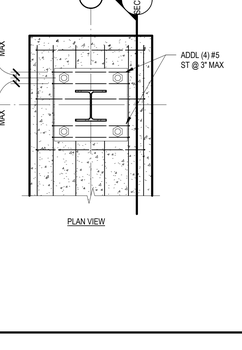

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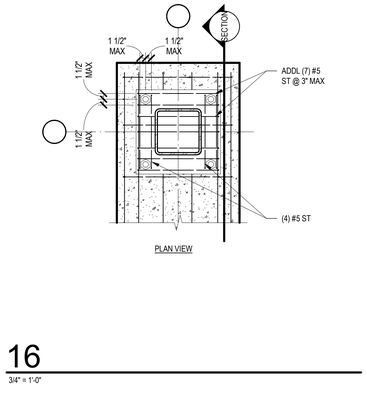

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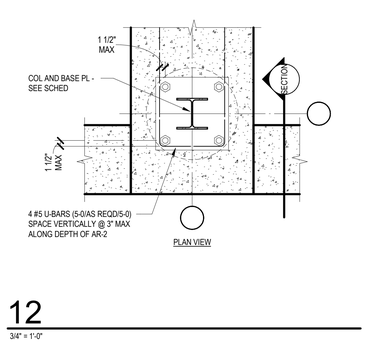

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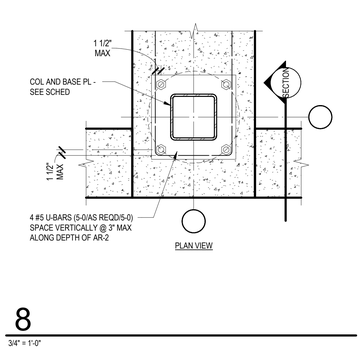

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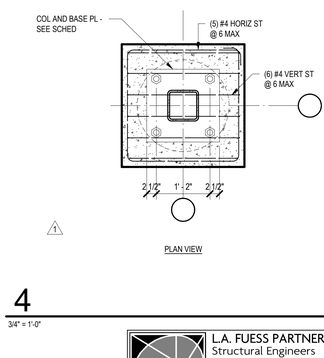
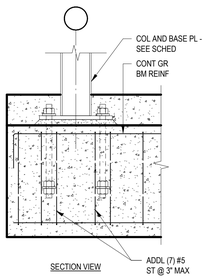
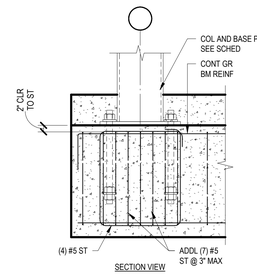


2
3/4" = 1'-0"

24
3/4" = 1'-0"

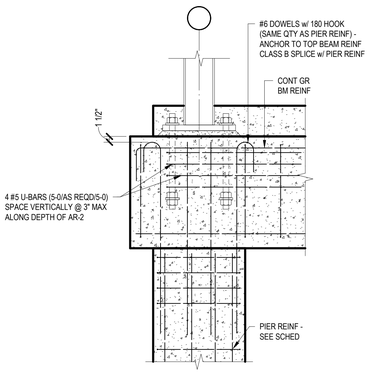
20
3/4" = 1'-0"





16
3/4" = 1'-0"

12
3/4" = 1'-0"



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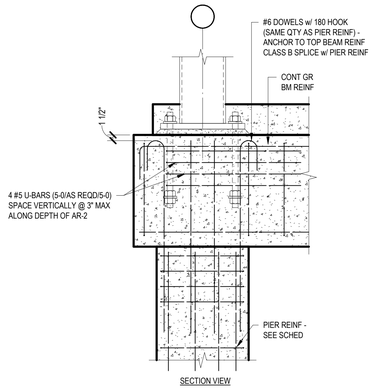

4
3/4" = 1'-0"

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LAFP PROJ. NO. 24081 FIRM REG. NO. F-537

Revision /	Date
1 Addendum 1	05/07/25
2 Addendum 3	05/14/25

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
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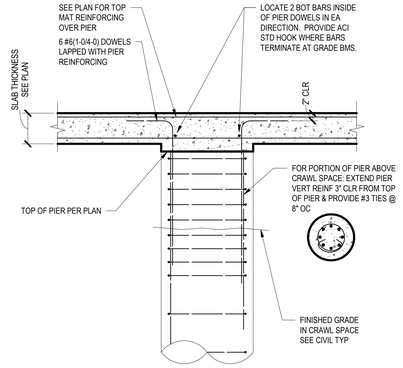
CONCRETE DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S3.5
Drawn By: LAFP	
Date: 04/22/2025	



21 GROUND FLOOR TOP OF PIER
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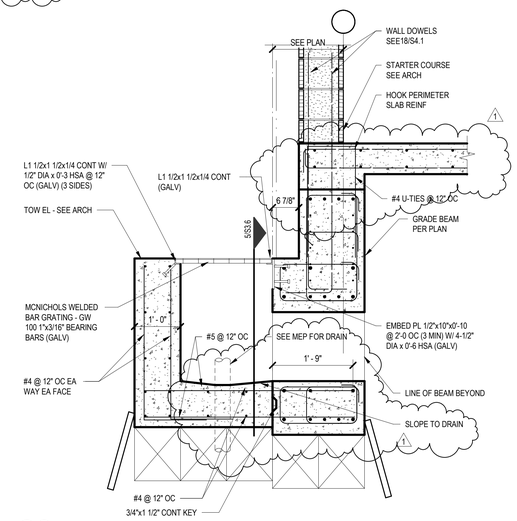

23 AREAWAY DETAIL
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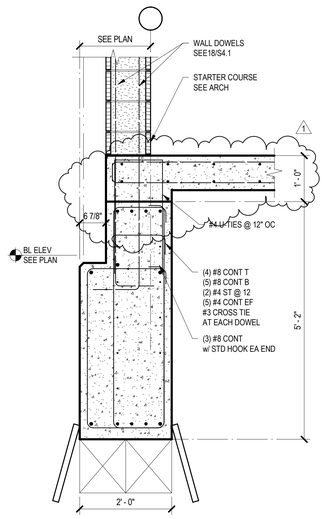

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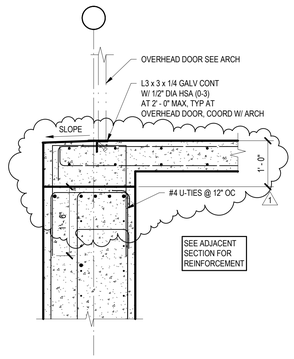

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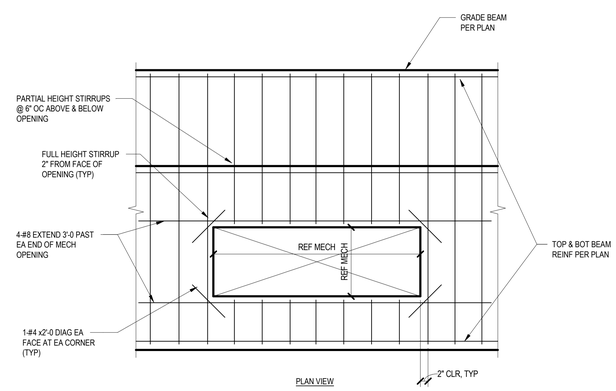

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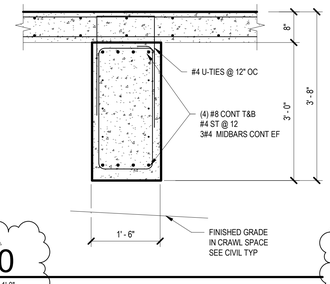

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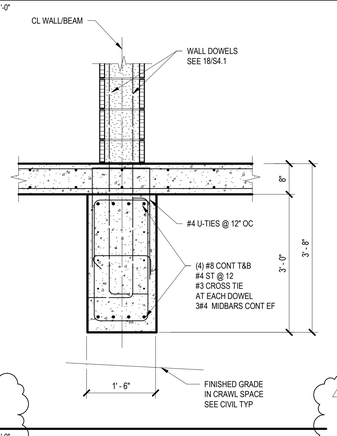

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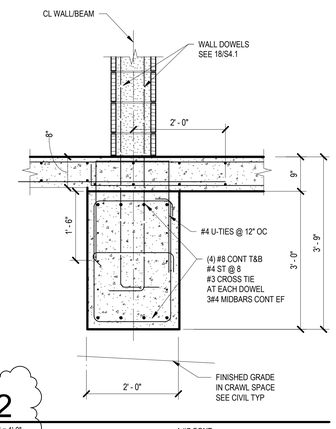

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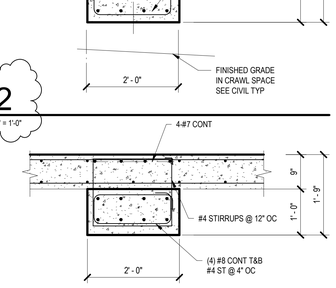

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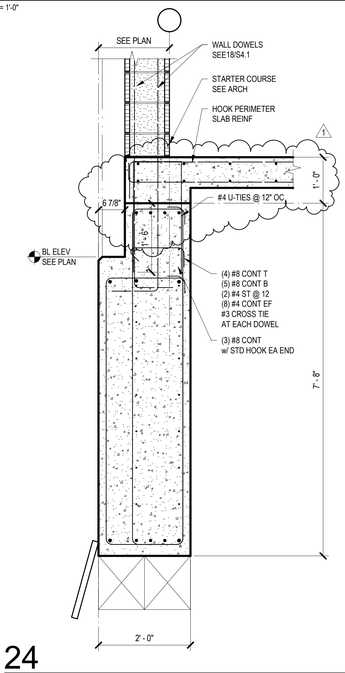

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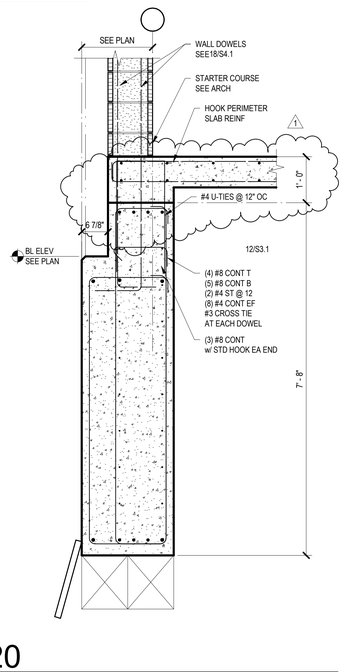

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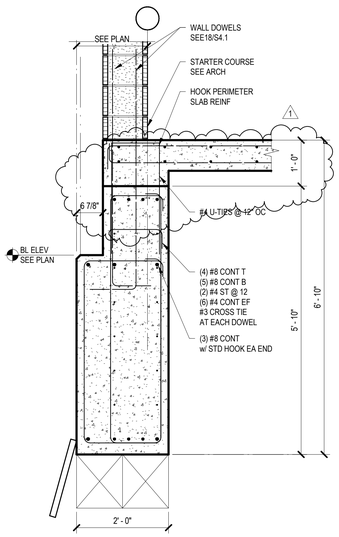
3/4" = 1'-0"



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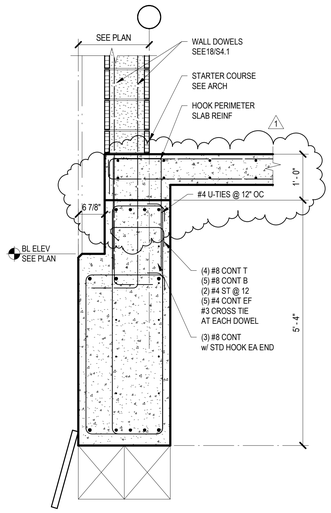

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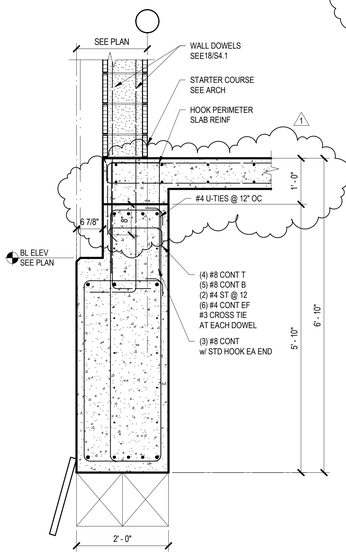

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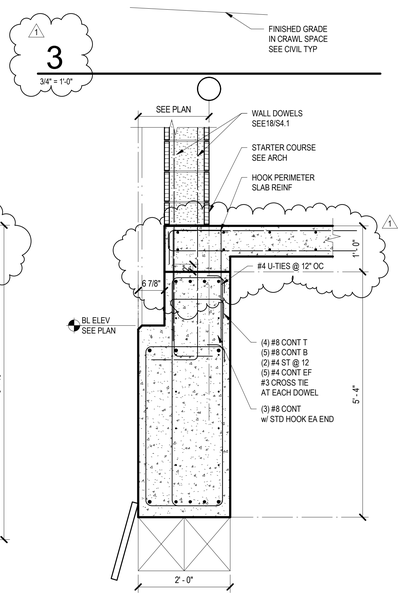
3/4" = 1'-0"



3
3/4" = 1'-0"

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Revision / 1 — Date 05/14/25 — Addendum 3

Project:
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2025 ADDITIONS + RENOVATIONS
FOR
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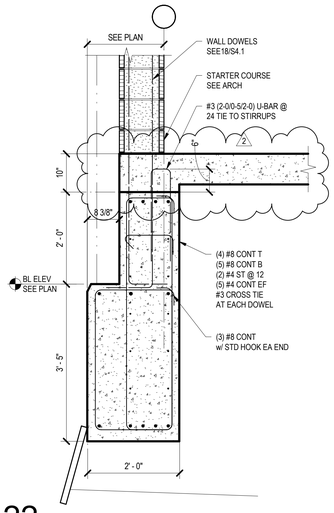
CONCRETE DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. S3.6
Drawn By: LAFP	ISSUE FOR BID
Date: 04/22/2025	



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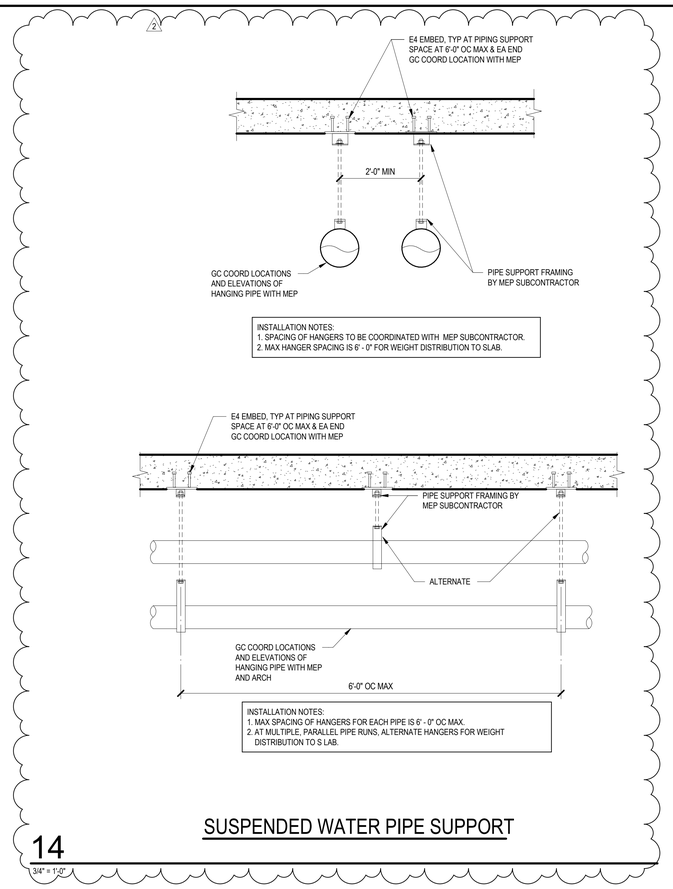
3/4" = 1'-0"



SUSPENDED WATER PIPE SUPPORT

14
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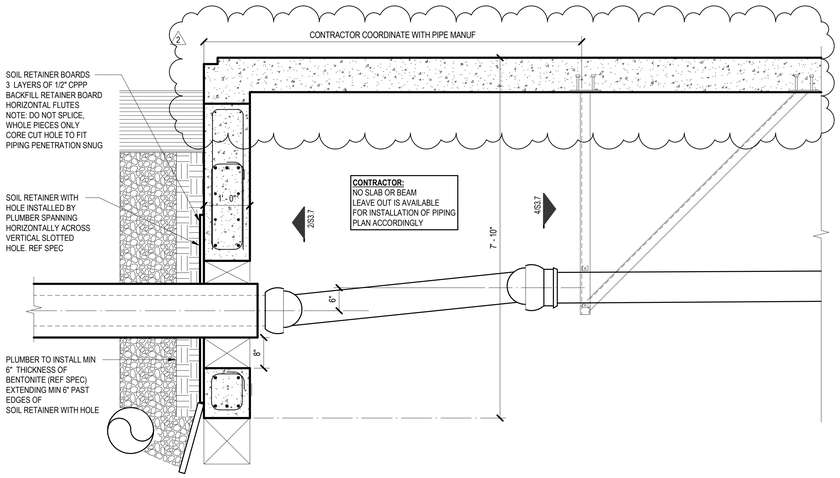

1
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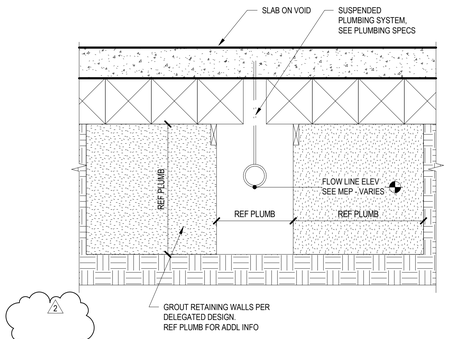
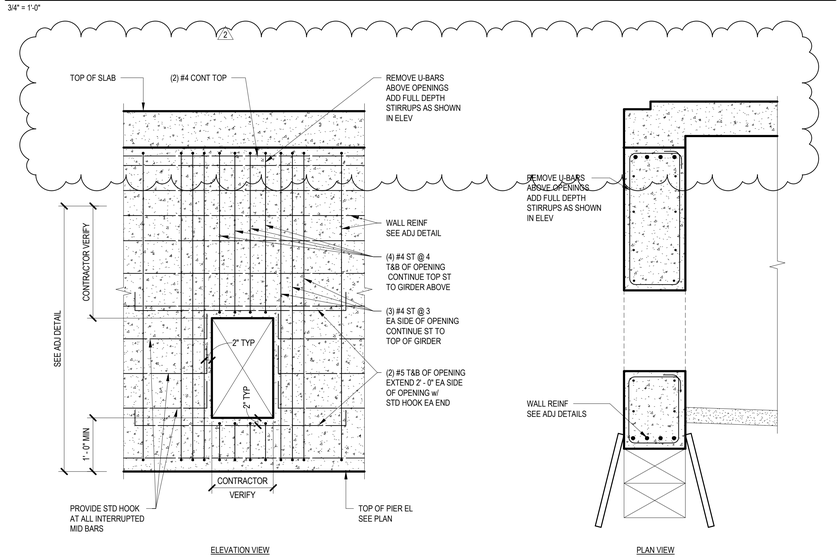
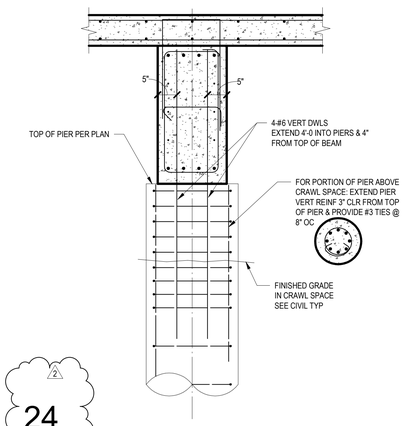


15 PLUMBING VOID DETAIL
3/4" = 1'-0"



LARGE OPENING IN GRADE BEAM

2
3/4" = 1'-0"



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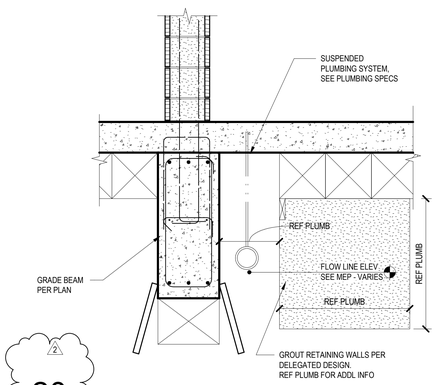
3/4" = 1'-0"



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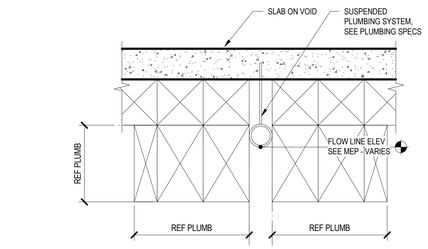

16 PLUMBING VOID DETAIL
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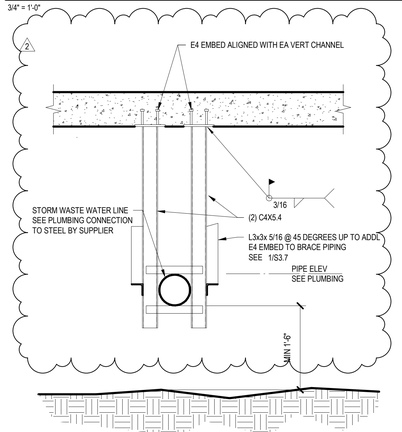

PLUMBING LINE SWIVEL JOINT SUPPORT

4
3/4" = 1'-0"

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Revision /	Date	
1	05/07/25	Addendum 1
2	05/14/25	Addendum 3

Project:

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

CHERYL R. STEWART
117488
LICENSED
PROFESSIONAL ENGINEER
05-14-2025

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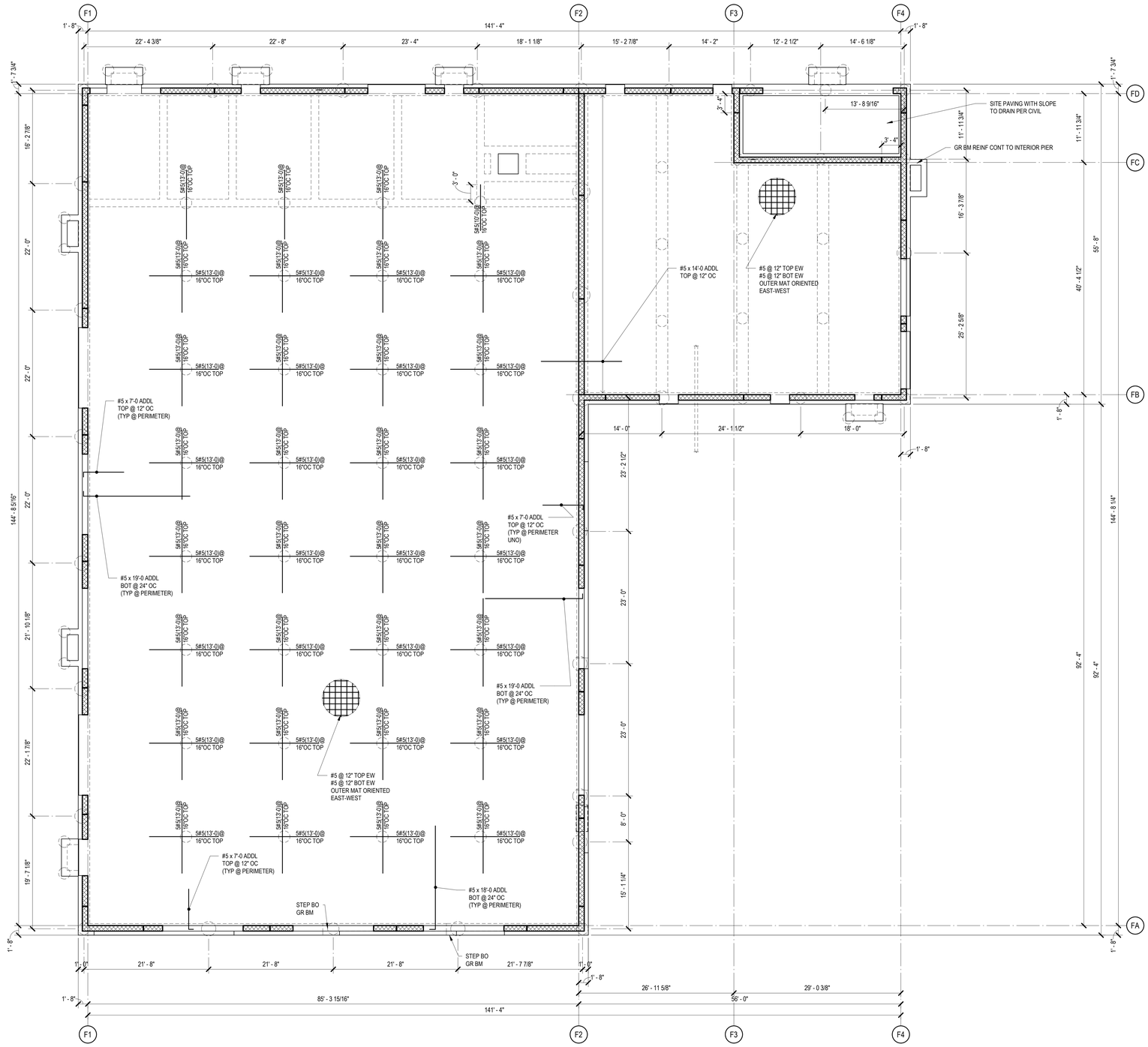
CONCRETE DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S3.7
Drawn By: LAFP	
Date: 04/22/2025	

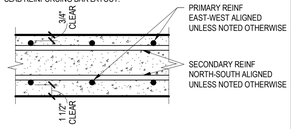


1 SLAB REINFORCING PLAN - AREA E

1/8" = 1'-0"

REINFORCEMENT FOR CONCRETE SLABS ON VOID CARTON

1. SLAB REINFORCING BAR LAYOUT:



2. BOTTOM BARS TO BE SPLICED AT CENTER LINE OF SUPPORTS ONLY. BOTTOM BARS MAY BE SUPPLIED IN LENGTHS OF ONE OR MORE SPANS.
3. TOP BARS TO BE SPLICED AT MIDSPAN BETWEEN SUPPORTS ONLY. TOP BARS MAY BE SUPPLIED IN LENGTHS OF ONE OR MORE SPANS. TOP BARS MAY NOT BE SPLICED IN SPANS ADJACENT TO A CANTILEVERED PORTION OF THE SLAB. PROVIDE A 180° STD HOOK FOR TOP BARS AT PERIMETER EDGES
4. LAP REINFORCEMENT 2' - 8" AT SPLICES, UNO OR DETAILED OTHERWISE
5. ABBREVIATIONS ON PLANS ARE AS FOLLOWS:
   T = TOP
   B = BOTTOM
   EW = EACH WAY

FOUNDATION PLAN NOTES

1. FINISH FLOOR ELEVATION IS SHOWN ON PLAN (RELATIVE TO DATUM 100'-0").
2. TOP OF CONCRETE SLAB IS FINISH FLOOR UNLESS SHOWN OTHERWISE.
3. SHEET INDEX:

GENERAL NOTES	S3.1
TYPICAL CONC DETAILS	S3.1, S3.2
PIER SCHEDULE	S3.1
STEEL COLUMN SCHEDULE	S5.1
VERTICAL BRACES	S6.1

4. TYPICAL CONCRETE SLAB THICKNESS IS 8" (OVERALL) UNLESS NOTED OTHERWISE.
5. BRICK LEDGE ELEVATION IS 8" BELOW FINISH FLOOR UNLESS SHOWN OTHERWISE.
6. TOP AND BOTTOM REINFORCING IN FLAT SLAB SHALL BE PLACED IN PROPER SEQUENCE - SEE SLAB REINFORCEMENT PLANS AND DETAIL.

NORTH

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SLAB REINFORCEMENT PLAN - AREA E

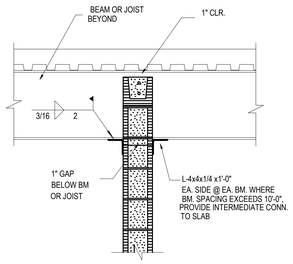
PACKAGE VOLUME

Job No. 01954-08-01
Drawn By: LAFP
Date: 04/22/2025
Sheet No. ISSUE FOR BID
S3.8E

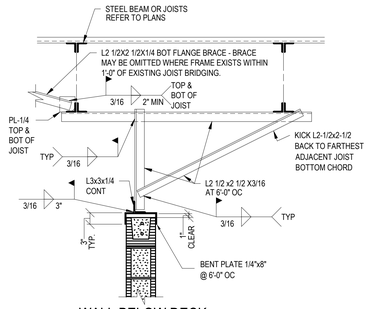
MASONRY WALL BRACING NOTES:

1. CLEAR GAPS INDICATED BETWEEN TOP OF WALLS AND STRUCTURE ARE TO BE FILLED (COMPRESSIBLE FILLER, ETC.) AS INDICATED ON ARCHITECTURAL DRAWINGS.
2. WHERE WALLS ARE ORIENTED SKEWED TO FRAMING, USE PARALLEL AND PERPENDICULAR DETAILS IN COMBINATION TO PROVIDE BRACING CONNECTIONS AT MAXIMUM SPACING INDICATED.
3. AT FREE ENDS OF WALLS, LOCATE FIRST BRACE WITHIN 5 FT OF END OF WALL.
4. CORNERS AND TEES WITH MINIMUM 5 FT LONG INTERSECTING WALLS CAN BE CONSIDERED BRACED POINTS. HORIZONTAL RUNS OF WALL 10 FT LONG AND LESS WITH INTERSECTIONS ON BOTH ENDS DO NOT REQUIRE BRACING.
5. REFER TO SHEET ARCHITECTURAL DRAWINGS FOR LAYOUT AND DEFINITION OF WALLS THAT EXTEND TO DECK.

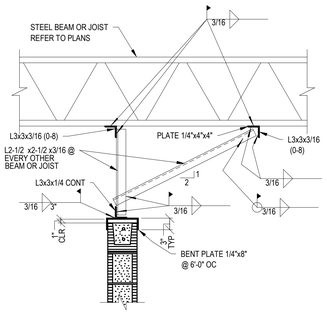
17 CMU WALL BRACING
3/4" = 1'-0"



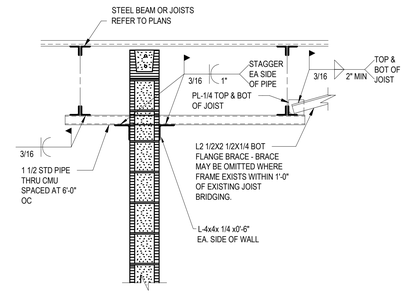
WALL EXTENDING TO DECK PERPENDICULAR TO BEAMS OR JOISTS



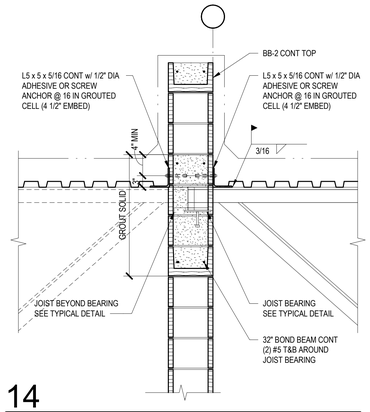
WALL BELOW DECK PARALLEL TO BEAMS OR JOISTS



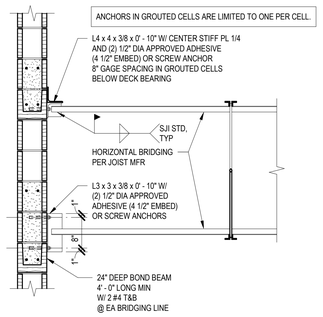
WALL BELOW DECK PERPENDICULAR TO BEAMS OR JOISTS



WALL EXTENDING TO DECK PARALLEL TO BEAMS OR JOISTS

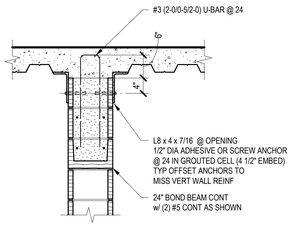


14
3/4" = 1'-0"



10 JOIST BRIDGING TO CMU (LH/DLH) TYPICAL DETAIL
NO SCALE TD04161A

NOT USED



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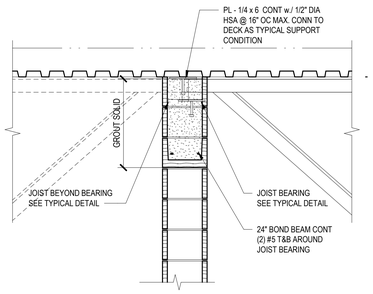

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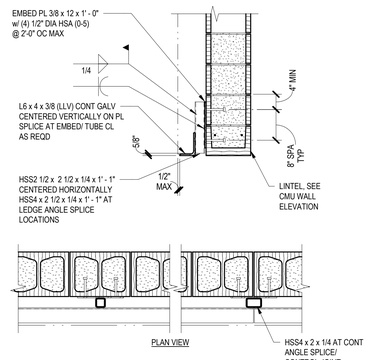
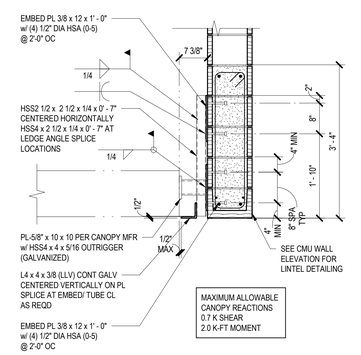
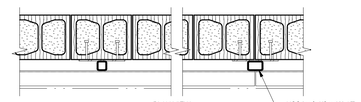
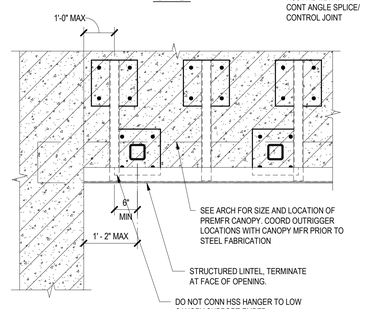
3/4" = 1'-0"



BRICK RELIEF AT MASONRY 11 TYPICAL DETAIL (4" NOMINAL BRICK)
NO SCALE

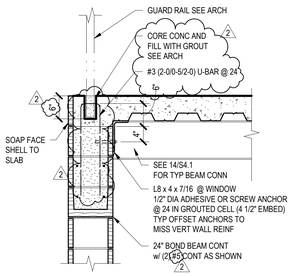




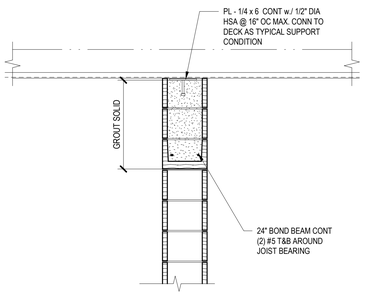


BOTTOM OF CANOPY ALIGNED WITH BRICK BRG ELEVATION

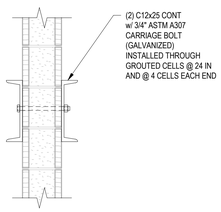
8
3/4" = 1'-0"



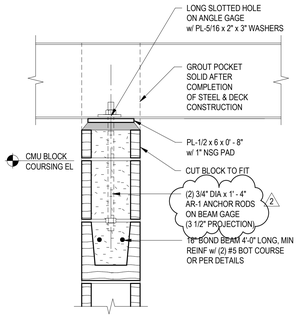
3
3/4" = 1'-0"



16
3/4" = 1'-0"



12
1" = 1'-0"



4 CONTINUOUS BEAM BEARING TYPICAL DETAIL
NO SCALE 421 ABOLT

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Revision /	Date
1 Addendum 1	05/07/25
2 Addendum 3	05/14/25

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

CHERYL R. STEWART 117488 LICENSED PROFESSIONAL ENGINEER 5-14-2025

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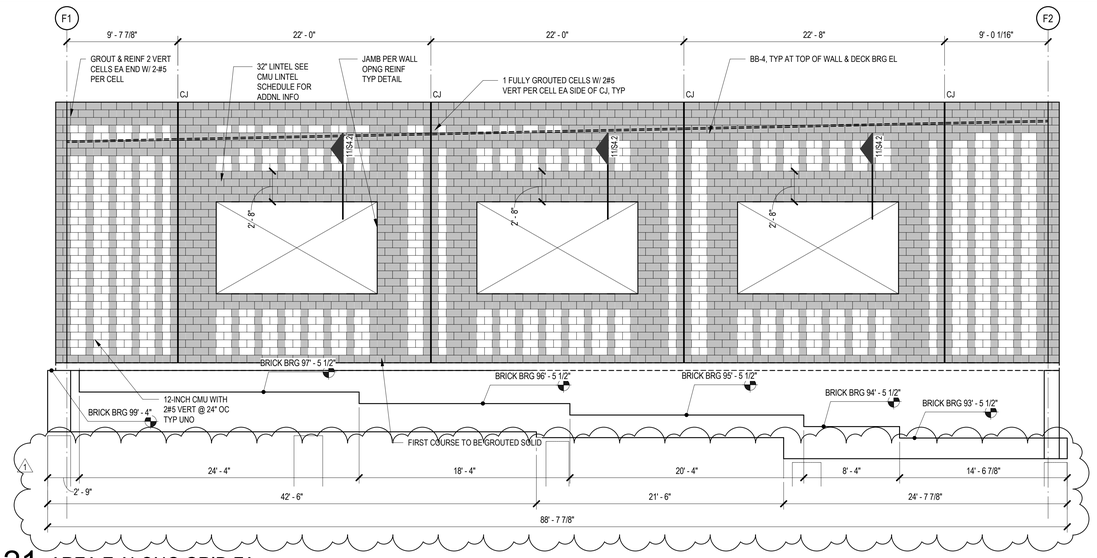
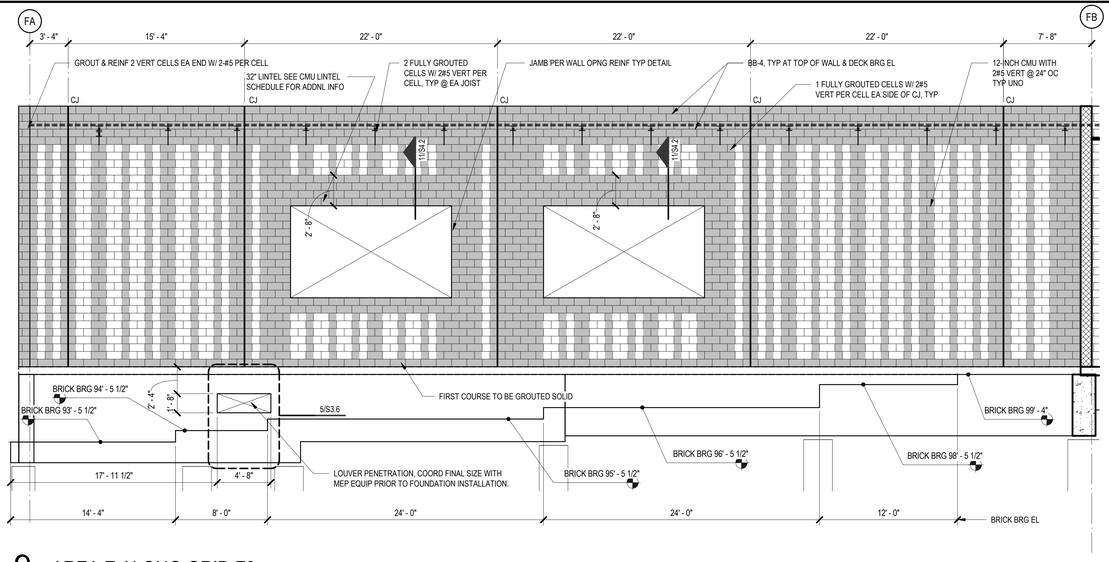
MASONRY DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S4.2
Drawn By: LAFP	
Date: 04/22/2025	



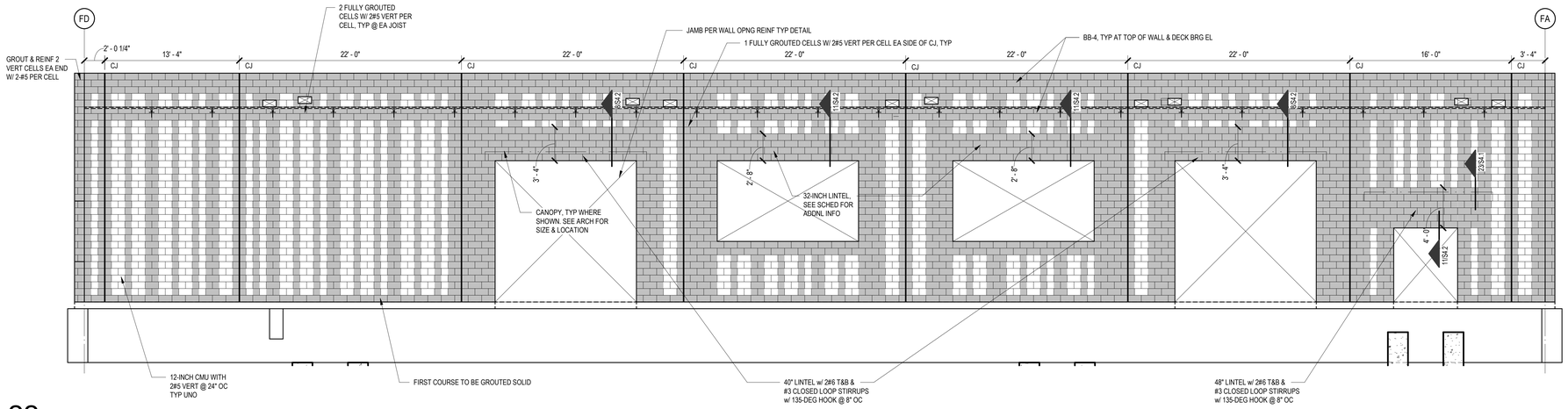
21 AREA E ALONG GRID FA

3/16" = 1'-0"



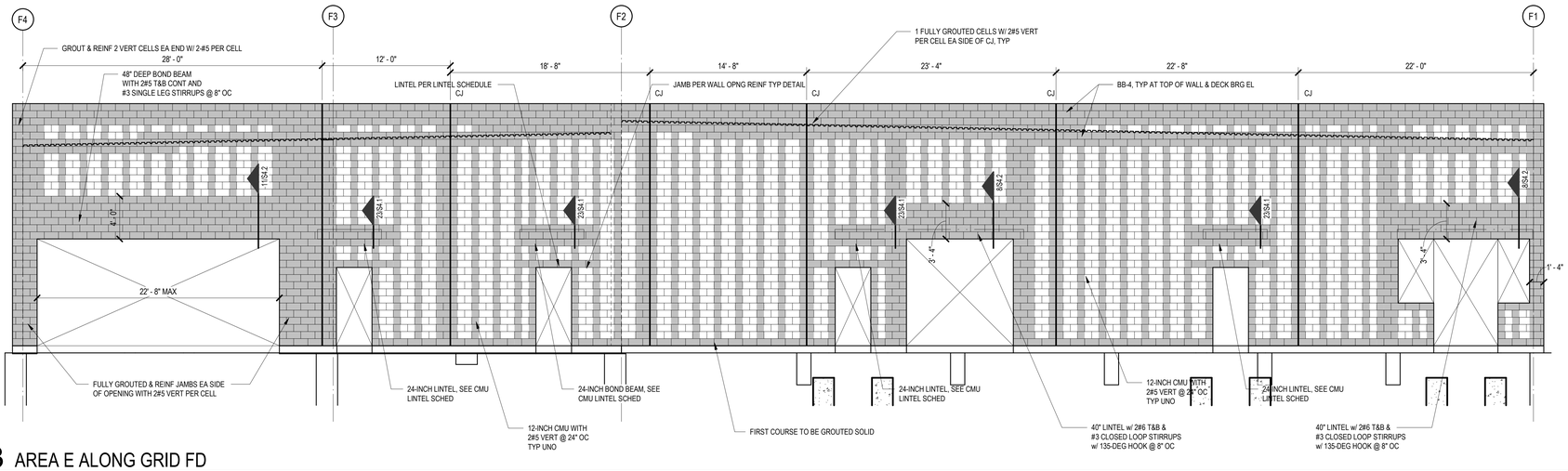
9 AREA E ALONG GRID F2

3/16" = 1'-0"



22 AREA E ALONG GRID F1

3/16" = 1'-0"



23 AREA E ALONG GRID FD

3/16" = 1'-0"

Revision / Date
1 Addendum 3 05/14/25

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
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MASONRY WALL ELEVATIONS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S4.3
Drawn By: LAFP	
Date: 04/22/2025	

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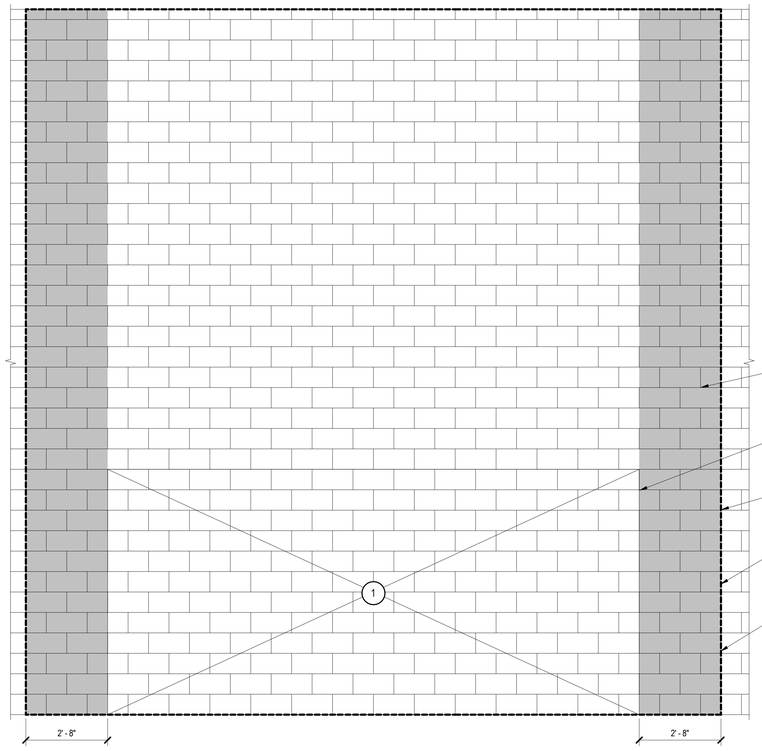


1 REMOVE ALL EXST NON-STRUCTURAL ELEMENTS WITHIN WALL OPENING.

2 REMOVE BRICK IN DESIGNATED REGION TO TOP OF WALL.

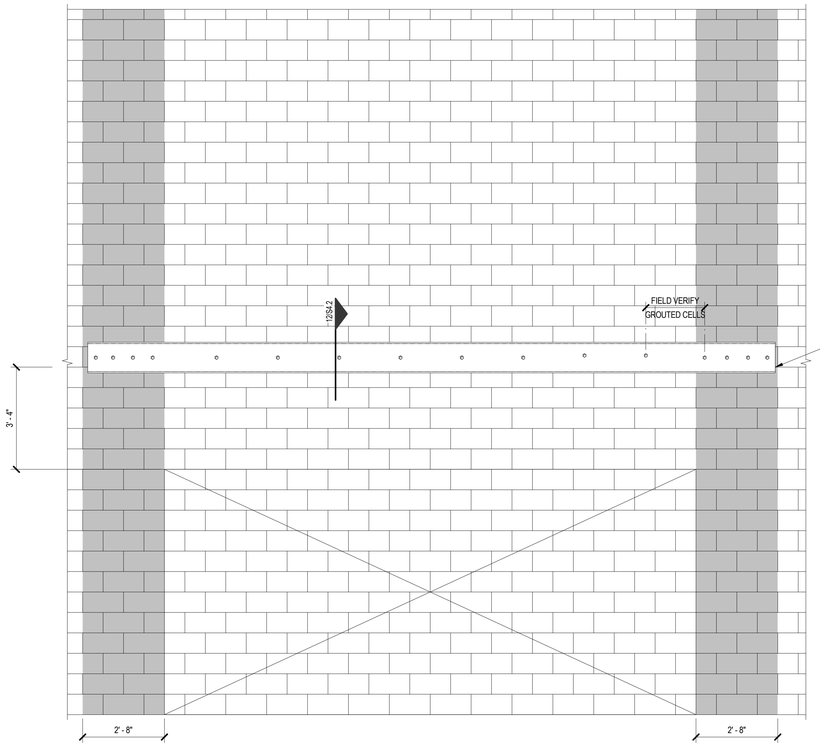
3 GROUT AND REINFORCE AT LEAST FOUR FULL VERTICAL CELLS ADJACENT TO PROPOSED OPENING.

PROPOSED OPENING

BRICK REMOVAL REGION

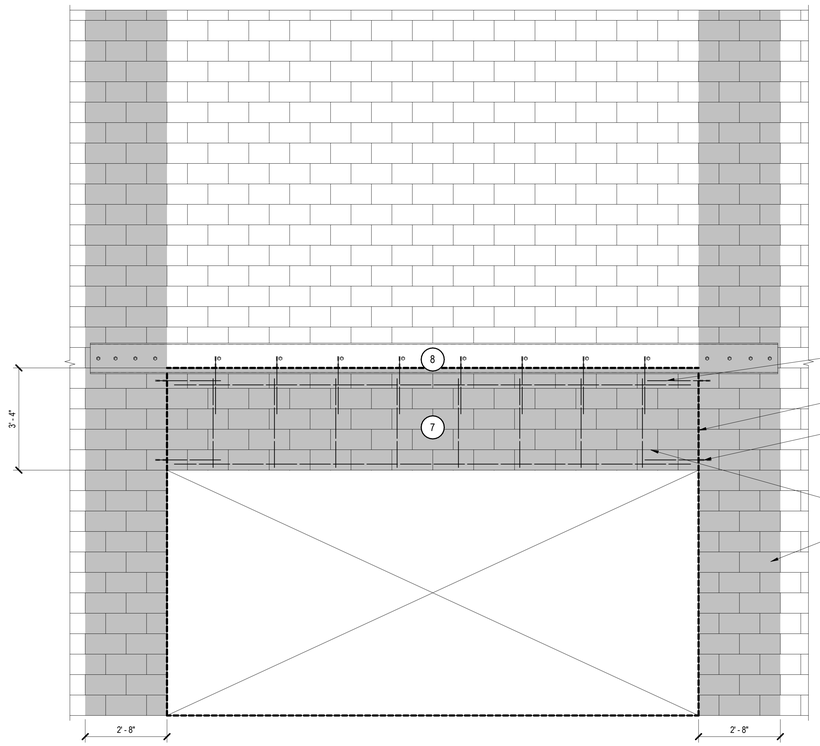
CELLS TO BE GROUTED AND REINF

PHASE 1



4 INSTALL CHANNELS ABOVE ROUGH OPENING HEAD PER 12/S4.2.

PHASE 2



5 REMOVE EXIST MASONRY FOR ROUGH OPENING.

6 DRILL & EPOXY DOWELS #5 (2-0) w/ HILTI HY-270 ADHESIVE (4 1/2" EMBED) AT EACH VERT REINFORCED CELL AND AT TOP AND BOTTOM HORIZ CELL

7 INFILL LINTEL WITH 8" CMU WITH (2) #5 HORIZ TOP AND BOTTOM AND GROUT SOLID. MATCH VERT REINFORCED CELLS.

8 REMOVE TEMPORARY ANGLE AND PATCH BOLT HOLES.

DOWEL, TYP

CELLS TO BE GROUTED AND REINF

PHASE 3

1 NEW OPENING IN EXISTING WALL

1/2" = 1'-0"

Revision / Date
1 05/14/25 Addendum 3

Project:
LEHMAN HIGH SCHOOL
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MASONRY WALL ELEVATIONS

PACKAGE VOLUME

Job No. 01954-08-01
Drawn By: LAFP
Date: 04/22/2025
Sheet No. ISSUE FOR BID
S4.7

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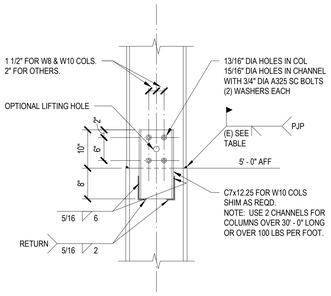
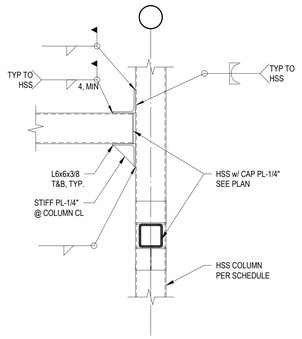
WELD SIZE TABLE	
FLANGE T (SMALLEST)	EFFECTIVE THROAT (E)
1/2" < T ≤ 3/4"	1/4"
3/4" < T ≤ 1 1/2"	5/16"
1 1/2" < T ≤ 2 1/4"	3/8"
2 1/4" < T ≤ 6"	1/2"
NOTE: PROVIDE A LAND WIDTH OF 1/4" OR GREATER FOR PJP FLANGE WELDS	

NOTES:
1. THIS TYPICAL DETAIL APPLIES TO COLUMNS WITH DEPTHS THAT ARE NOMINALLY THE SAME.
2. THIS TYPICAL DETAIL APPLIES TO GRAVITY COLUMNS ONLY. SEE OTHER TYPICAL DETAILS FOR SPLICES IN MOMENT FRAMES AND BRACED FRAMES.
3. THE SPLICING OPTION DEPICTED IN THIS TYPICAL DETAIL IS PRE-APPROVED FOR USE ON THIS PROJECT. THE FABRICATOR MAY SUBMIT ALTERNATE MEANS OF SPLICING FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.



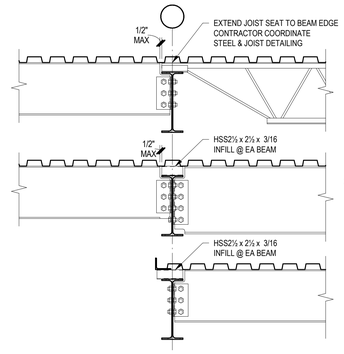
13 WF COLUMN SPLICES (GRAVITY COLUMNS) TYPICAL DETAIL

NO SCALE TD05140



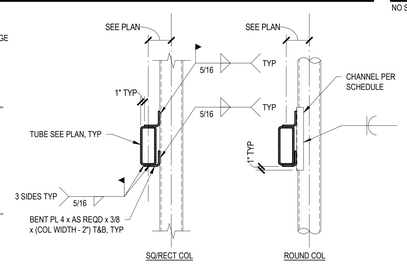
1 HSS CONNECTION TO COLUMN TYPICAL DETAIL

NO SCALE 514



14 WIDE FLANGE IN JOIST BAY TYPICAL DETAIL

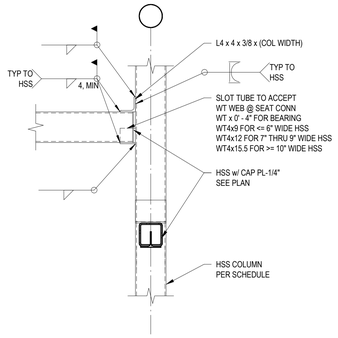
NO SCALE 536



SCHEDULE	
HSS ROUND	CHANNEL
HSS6	MC6x12
HSS6.625	MC6x12
HSS8	MC8x18.7
HSS8.625	MC8x18.7
HSS10.75	MC10x22

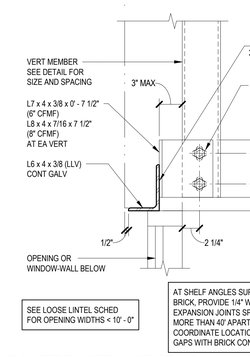
6 HSS CONNECTION TO COLUMN TYPICAL DETAIL

NO SCALE



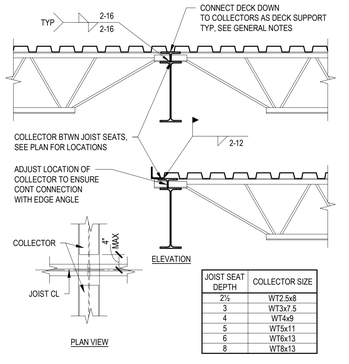
2 HSS CONNECTION TO COLUMN TYPICAL DETAIL

NO SCALE 514 WT



7 BOLTED STRUCTURED LINTEL TYPICAL DETAIL

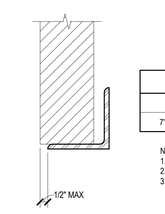
NO SCALE Drafting 13



JOIST SEAT DEPTH	COLLECTOR SIZE
2½	WT2.5x6
3	WT3x7.5
4	WT4x9
5	WT5x11
6	WT6x13
8	WT8x13

3 SHEAR COLLECTOR TYPICAL DETAIL

NO SCALE 534

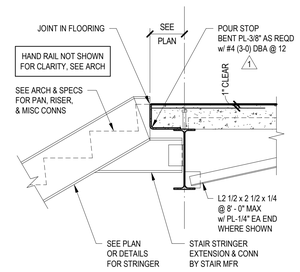


SPAN	ANGLE SIZE
< 7' - 6"	L4 x 4 x 5/16
7' - 6" TO 10' - 0"	L6 x 4 x 3/8 (LLV)

NOTES:
1. SPAN = CLEAR OPENING WIDTH
2. BEAR 8" EA END
3. SEE SPECS FOR COATING REQUIREMENT

8 LOOSE LINTEL SCHEDULE TYPICAL DETAIL

NO SCALE TD05190



4 STAIR STRINGER CONN TYPICAL DETAIL

NO SCALE 536

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Revision /	Date	
1	05/07/25	Addendum 1
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Project:
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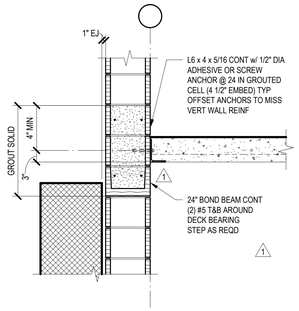
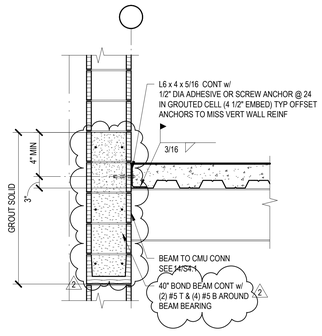
TYPICAL STEEL DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S5.3
Drawn By: LAFP	
Date: 04/22/2025	



21
3/4" = 1'-0"



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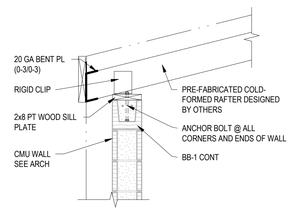
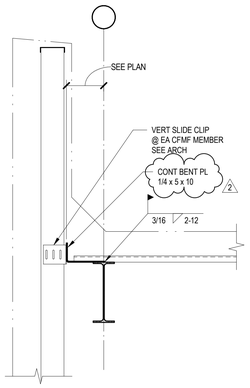
3/4" = 1'-0"



13
3/4" = 1'-0"



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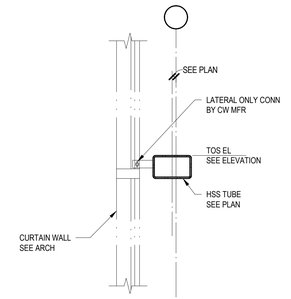

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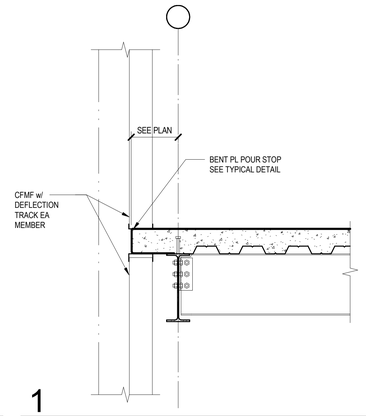
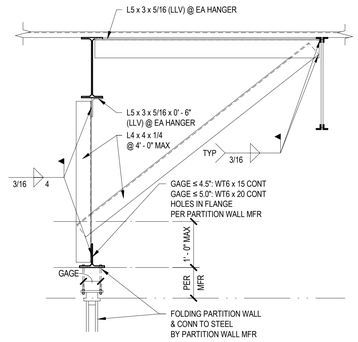
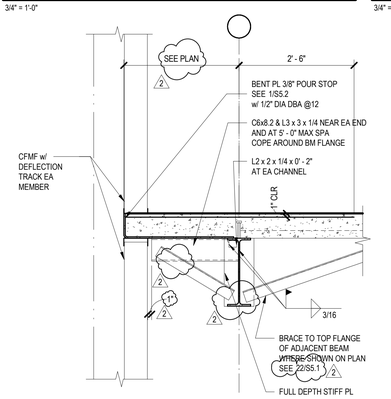
3/4" = 1'-0"



1
3/4" = 1'-0"



PARTITION WALL HANGER
22 TYPICAL DETAIL
NO SCALE 558



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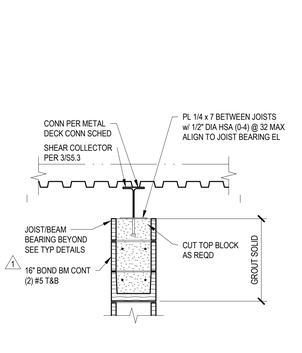

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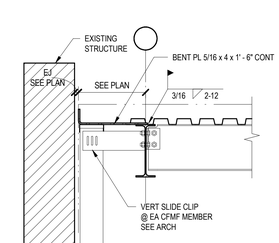

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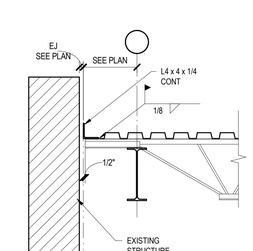

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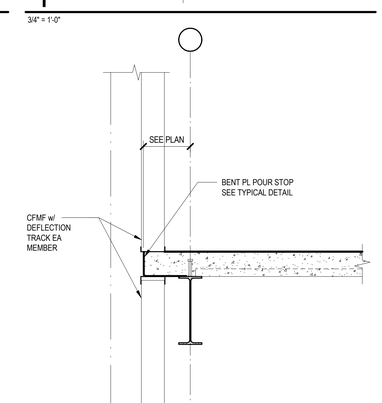

2
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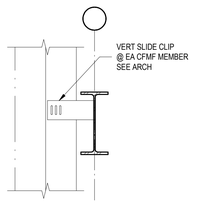

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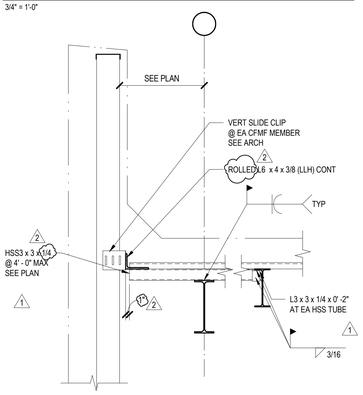

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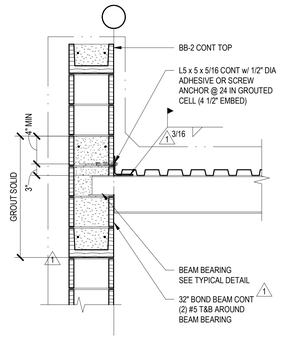

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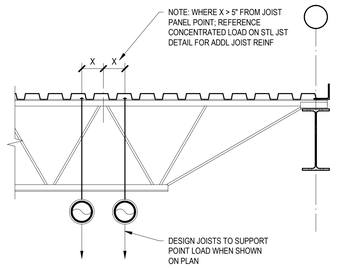
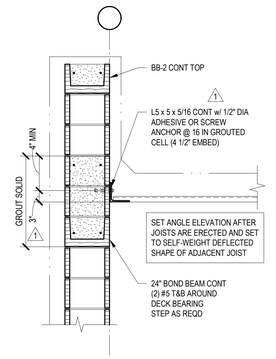


JOIST LOADING AT PIPING
11 TYPICAL DETAIL
NO SCALE SS.4/11



7
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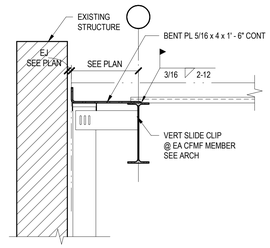

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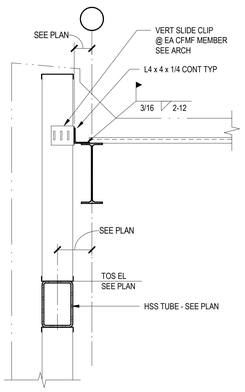
3/4" = 1'-0"



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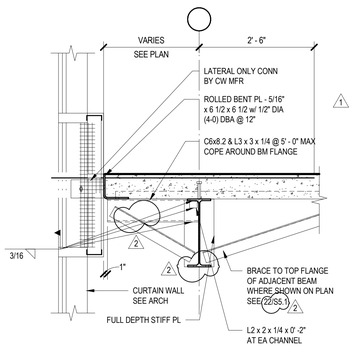

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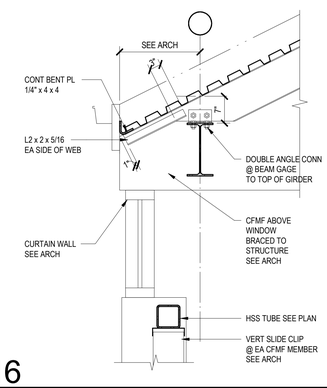

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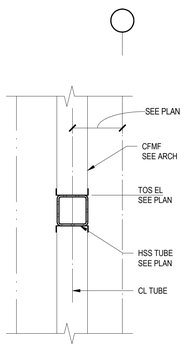

12
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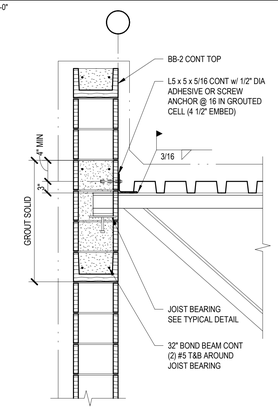

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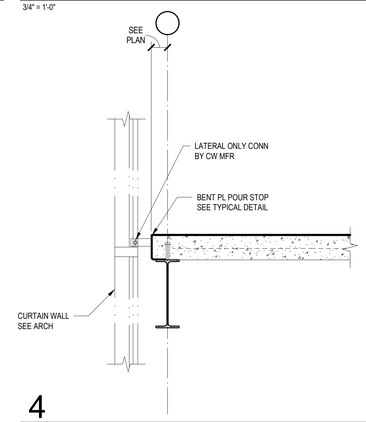

4
3/4" = 1'-0"

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Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537

Revision /	Date
1	05/07/25 Addendum 1
2	05/14/25 Addendum 3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
CHERYL R. STEWART
117468
LICENSED
PROFESSIONAL ENGINEER
5-14-2025

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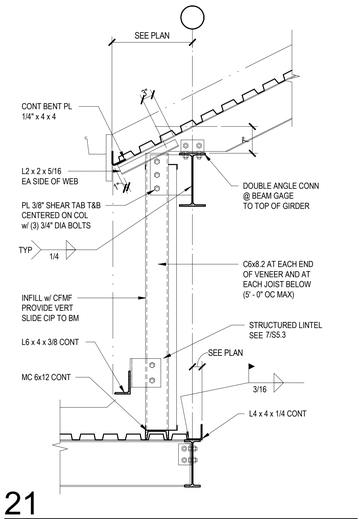
STEEL DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S5.4
Drawn By: LAFP	
Date: 04/22/2025	



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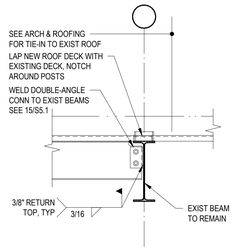

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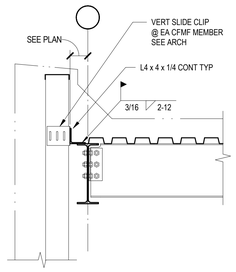

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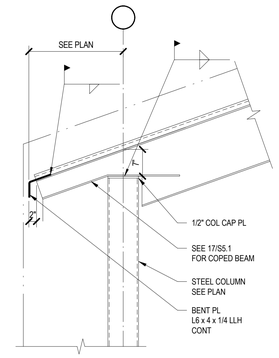

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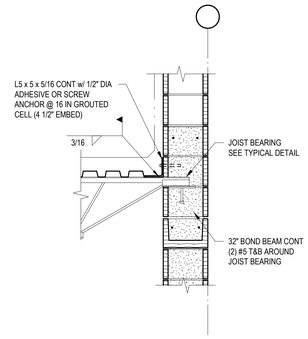

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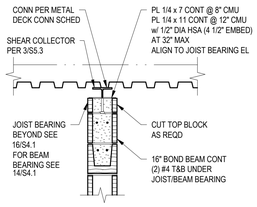

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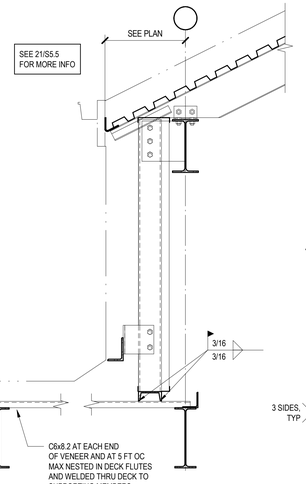

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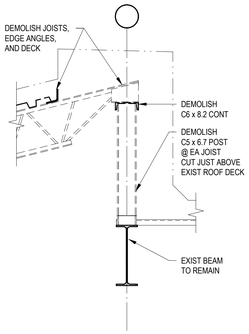

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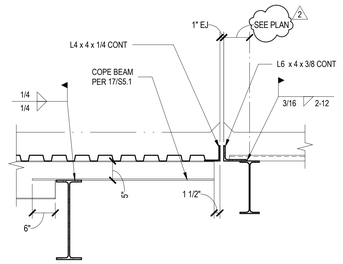

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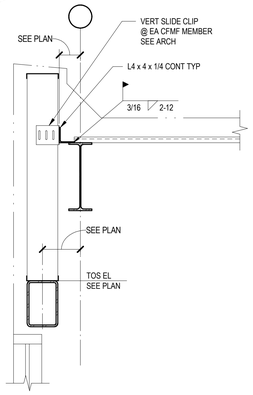

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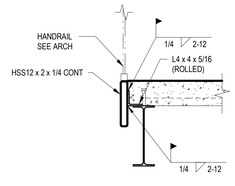

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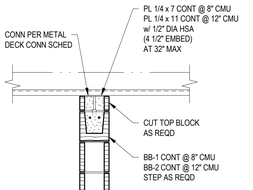

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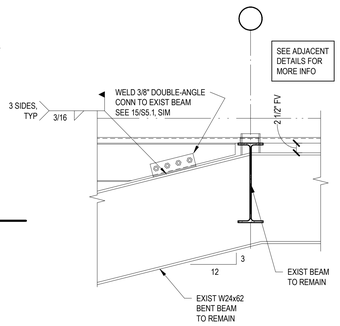

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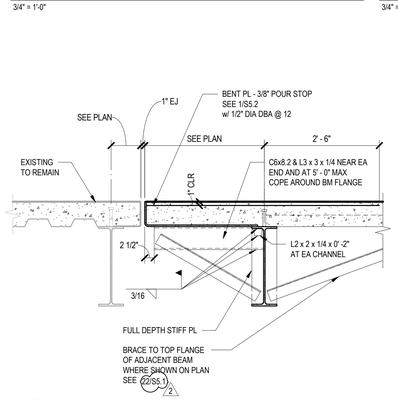

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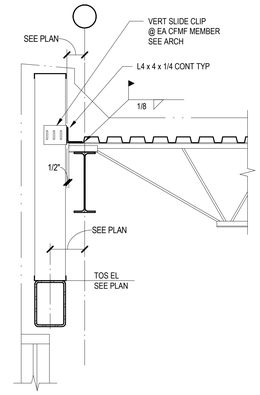

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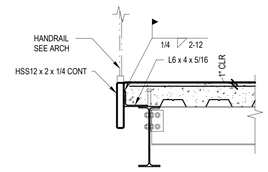

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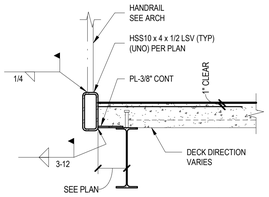

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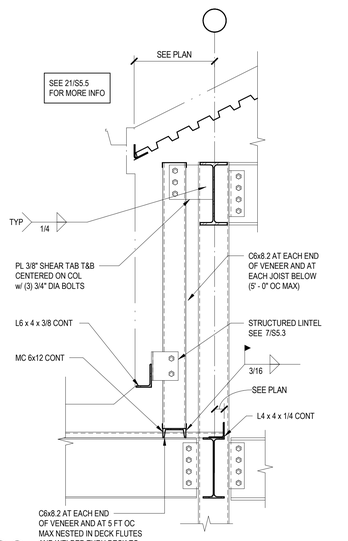

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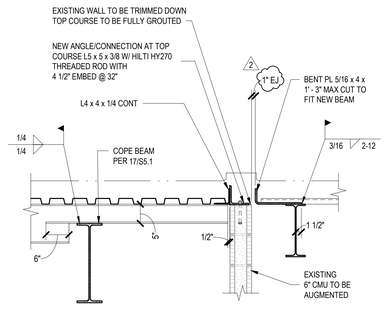

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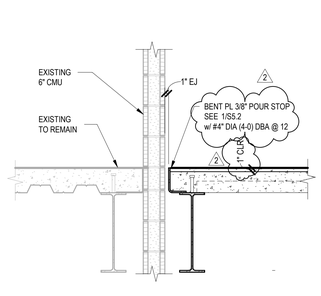

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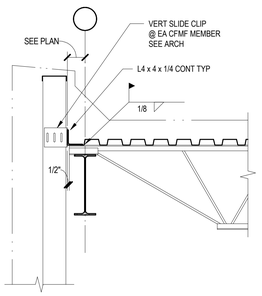

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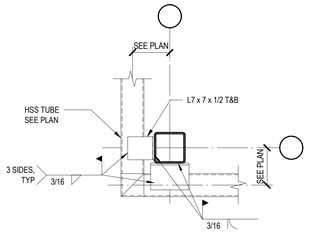

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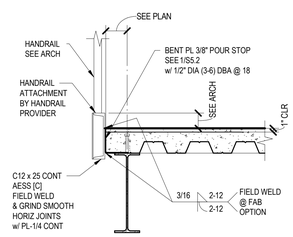

4
3/4" = 1'-0"

Revision /	Date
1	05/07/25 Addendum 1
2	05/14/25 Addendum 3

Project:

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

CHERYL R. STEWART
117458
LICENSED
PROFESSIONAL ENGINEER
5-14-2025

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STEEL DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S5.5
Drawn By: LAFP	
Date: 04/22/2025	

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Structural Engineers
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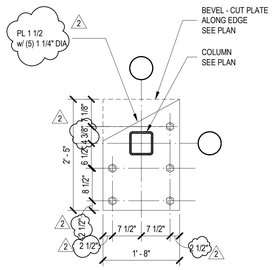
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537



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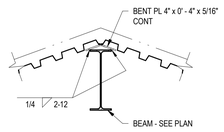

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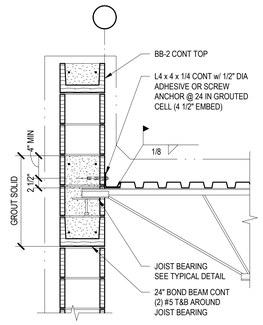

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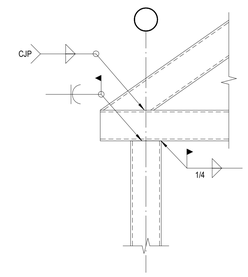

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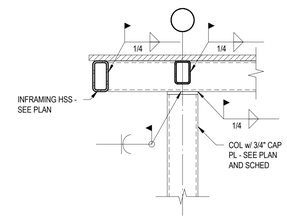

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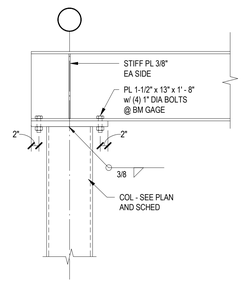

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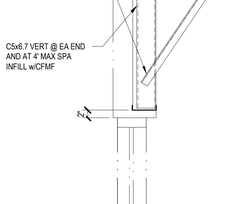

22
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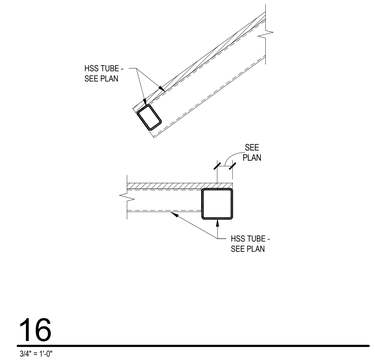
18
3/4" = 1'-0"



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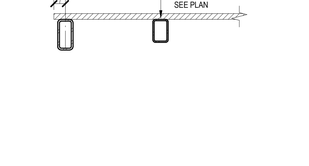

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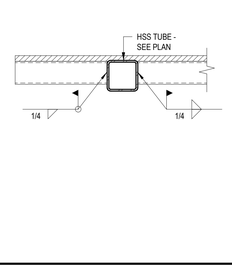

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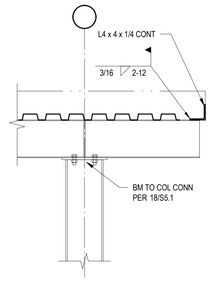

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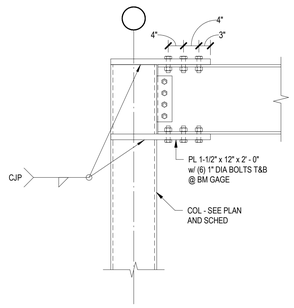

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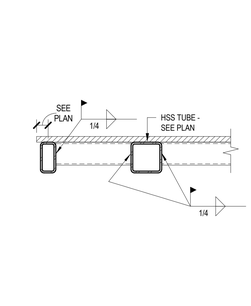

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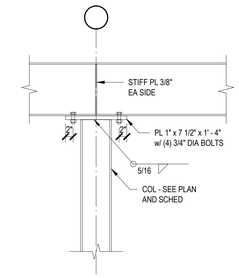

3
3/4" = 1'-0"

24
3/4" = 1'-0"

16
3/4" = 1'-0"

12
3/4" = 1'-0"

8
3/4" = 1'-0"

4
3/4" = 1'-0"

Revision /	Date
1	05/07/25 Addendum 1
2	05/14/25 Addendum 3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

CHERYL R. STEWART
117468
LICENSED
PROFESSIONAL ENGINEER
5-14-2025

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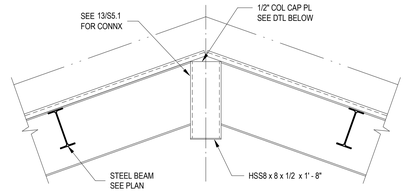
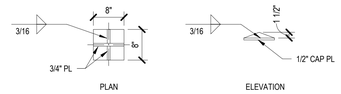
STEEL DETAILS

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. S5.6
Drawn By: LAFP	ISSUE FOR BID
Date: 04/22/2025	

L.A. FUESS PARTNERS, INC.
Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537





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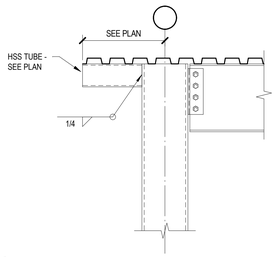

2
3/4" = 1'-0"

Revision / 1
Date 05/14/25
Addendum 3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

CHERYL R. STEWART
117468
LICENSED
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5-14-2025

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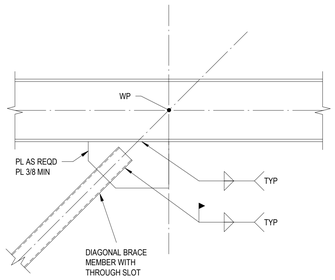
STEEL DETAILS

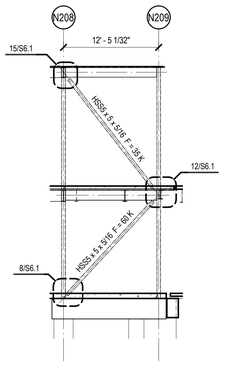
PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID S5.7
Drawn By: LAFP	
Date: 04/22/2025	

L.A. FUESS PARTNERS, INC.
Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537



17 VERTICAL BRACE CONNECTION TYPICAL DETAIL

NO SCALE S6.1/17



13 AREA C - VB N105 NORTH

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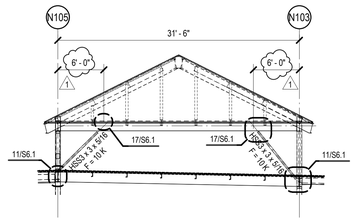

9 AREA C - VB N207

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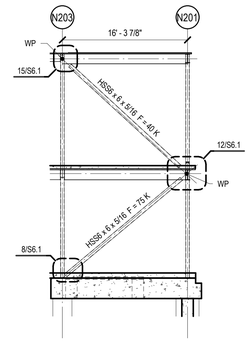

5 AREA C - VB N102

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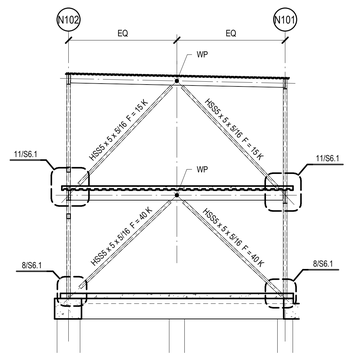

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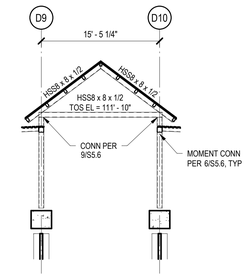
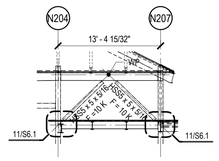


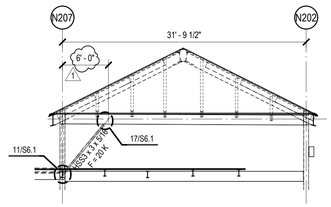
18 AREA D - FRAME DC & DD

1/8" = 1'-0"



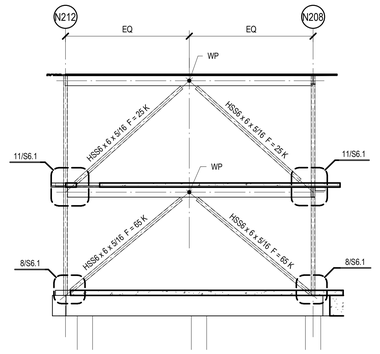
14 AREA C - VB N105 SOUTH

1/8" = 1'-0"



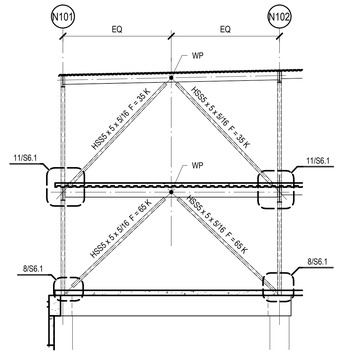
10 AREA C - VB N103

1/8" = 1'-0"



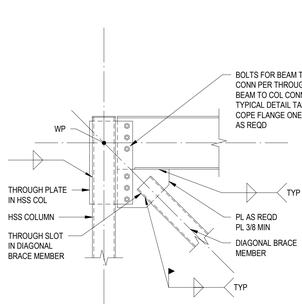
6 AREA C - VB N108

1/8" = 1'-0"



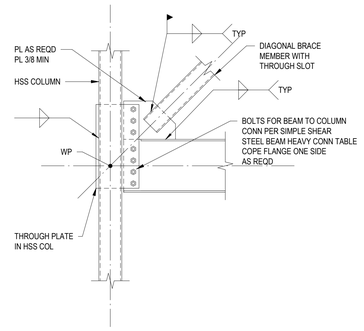
2 AREA C - VB N208

1/8" = 1'-0"



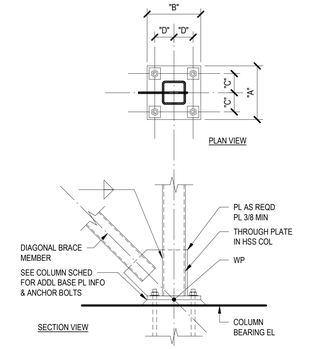
15 VERTICAL BRACE CONNECTION TYPICAL DETAIL

NO SCALE



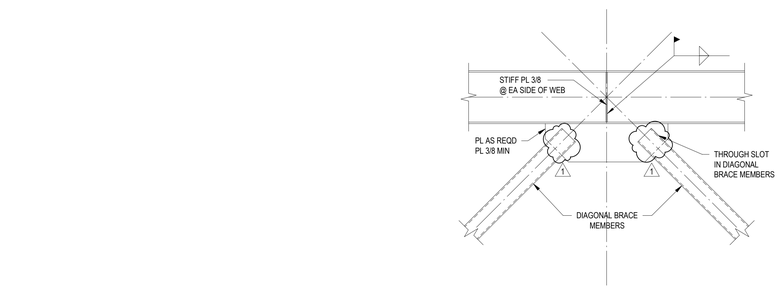
11 VERTICAL BRACE CONNECTION TYPICAL DETAIL

NO SCALE



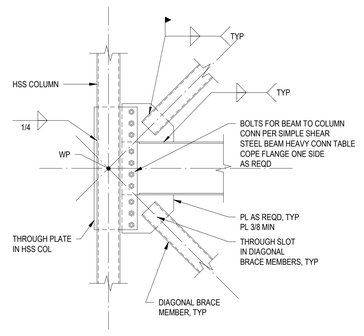
7 VERTICAL BRACE CONNECTION TYPICAL DETAIL

NO SCALE



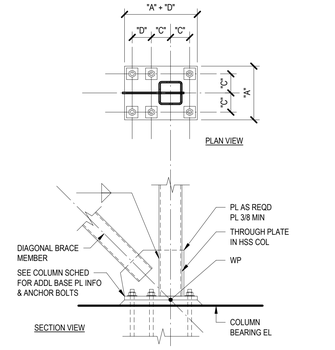
16 VERTICAL BRACE CONNECTION TYPICAL DETAIL

NO SCALE 5061



12 VERTICAL BRACE CONNECTION TYPICAL DETAIL

NO SCALE



8 VERTICAL BRACE CONNECTION TYPICAL DETAIL

3/4" = 1'-0"

BRACED FRAME NOTES:

1. FABRICATOR TO DESIGN BRACED FRAME CONNECTIONS FOR FORCES SHOWN. SUBMIT CALCULATIONS FOR EACH DIFFERENT CONDITION, SIGNED AND SEALED BY A PE REGISTERED IN THE STATE OF THE PROJECT.
2. DESIGN AND DETAIL CONNECTIONS TO TRANSFER FORCES BETWEEN MEMBERS WITHOUT ECCENTRICITY.
3. DESIGN AND DETAIL CONNECTIONS FOR BOTH TENSION AND COMPRESSION FOR FORCES SHOWN.
4. FORCES (K) SHOWN ARE FACTORED ACCORDING TO THE LOAD RESISTANCE FACTOR DESIGN METHOD (LRFD).
5. WHERE SHEAR FORCES ARE NOT SHOWN FOR BEAMS FROM GRAVITY LOAD, DESIGN USING A SHEAR LOAD EQUAL TO THE CAPACITY IN THE SIMPLE SHEAR BEAM CONNECTION DETAIL.

Revision / 1: Addendum 3
Date: 05/14/25

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

CHERYL R. STEWART
117488
LICENSED
PROFESSIONAL ENGINEER
05-14-2025

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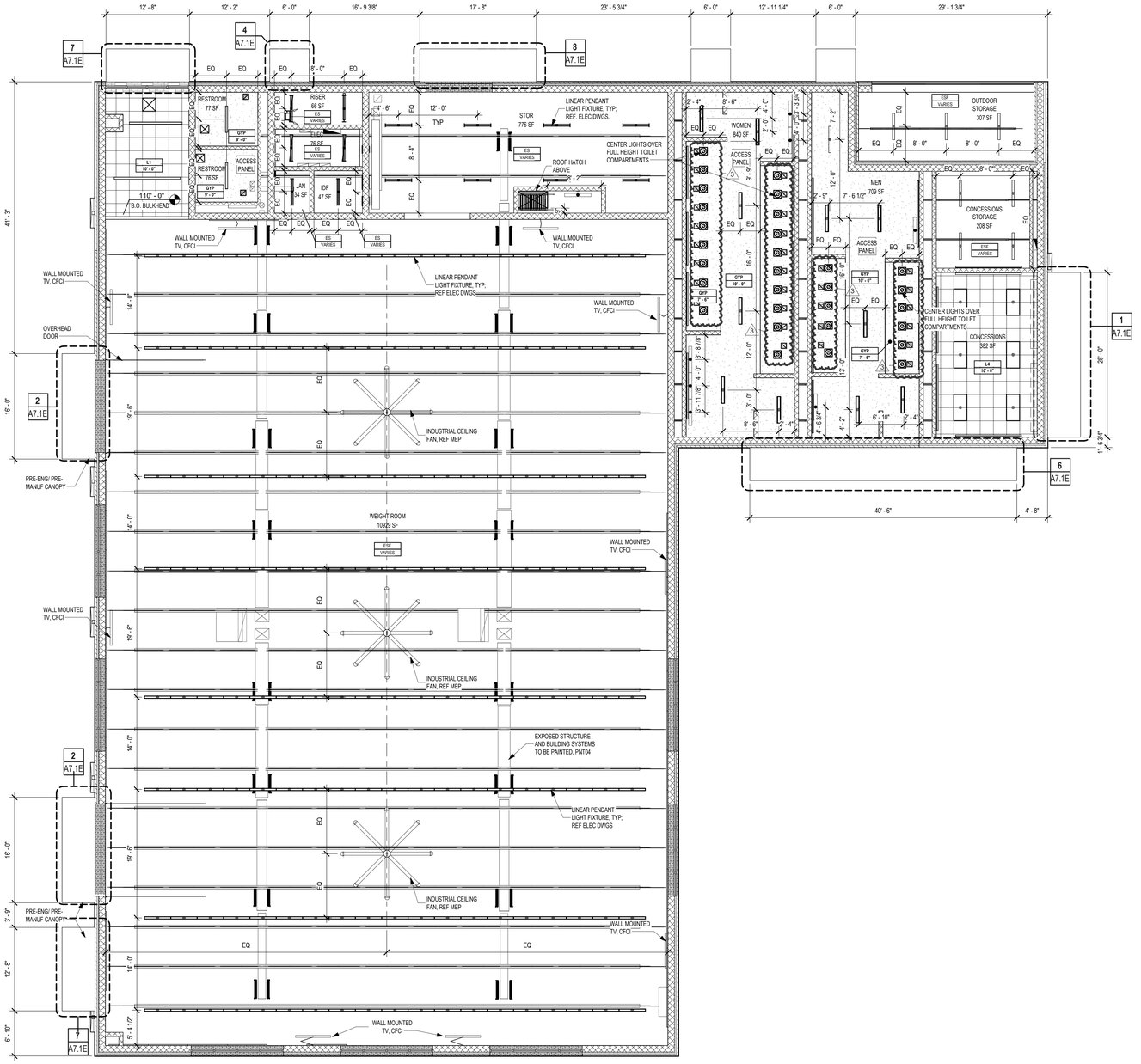
BRACING ELEVATIONS AND DETAILS

Job No. 01954-08-01
Drawn By: LAFP
Date: 04/22/2025
Sheet No. ISSUE FOR BID S6.1

L.A. FUESS PARTNERS, INC.
Structural Engineers
3333 Lee Parkway, Suite 300 • Dallas, TX 75219
LAFP PROJ. NO. 24081 FIRM REG. NO. F-537



1 REFLECTED CEILING PLAN - AREA F
1/8" = 1'-0"

1. COORDINATE REFLECTED CEILING PLANS WITH MECHANICAL AND ELECTRICAL DRAWINGS TO AVOID CONFLICTS. VERIFY EXACT MOUNTING LOCATIONS OF ALL CEILING-MOUNTED EQUIPMENT PRIOR TO INSTALLATION. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR VERIFYING ALL ITEMS, EQUIPMENT, AND/OR DEVICES AT CEILING.
2. PERIMETER WALLS AND/OR PERIMETER PARTITIONS OF ALL SPACES WITH EXPOSED STRUCTURE SHALL EXTEND TO BOTTOM OF DECK ABOVE. FINISH EXPOSED STRUCTURE AS SCHED.
3. CEILINGS AND GRIDS AT ALL MDFS AND IDFS SHALL BE HELD OFF OF DISTRIBUTION WALL 6" TO ACCOMMODATE CABLING.
4. PROVIDE 24"x24" ACCESS PANEL(S) IN ALL HARD CEILINGS FOR MAINTENANCE OF EQUIPMENT.
5. ALL DIMENSIONS SHOWN ON REFLECTED CEILING PLAN DRAWINGS ARE FROM FACE OF FINISH, U.N.O.

REFLECTED CEILING PLAN GENERAL NOTES

REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

CEILING TYPE → L4 (CEILING HEIGHT 9' - 0") → ROOM NUMBER

CEILING

- **ES** - EXPOSED DECK AND STRUCTURE
- **ESF** - EXPOSED DECK AND STRUCTURE (FINISHED)
- **GYP** - 5/8" GYPSUM BOARD
- **GYP1-** 3 LAYERS 5/8" TYPE 'X' GYPSUM BOARD (1-HR. FIRE RATED) (UL i501)
- **L1** - TYPE I 24" x 24" LAY-IN SUSPENDED CEILING TILE (STANDARD)
- **L2** - TYPE II 24" x 24" LAY-IN SUSPENDED CEILING TILE (IMPACT RESISTANT)
- **L3** - TYPE III 24" x 24" LAY-IN SUSPENDED CEILING TILE (HIGH HUMIDITY)
- **L4** - TYPE IV 24" x 24" LAY-IN SUSPENDED CEILING TILE (VINYL COVERED) (FOODSERVICE)
- **L5** - TYPE V 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL 'REFLECTIVE')
- **L6** - TYPE VI 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL 'ABSORPTIVE') (GLASS FIBER)
- **L7** - TYPE VII 24" x 24" LAY-IN SUSPENDED CEILING TILE (ACOUSTICAL 'ABSORPTIVE' - GEN. USE)
- **L8** - TYPE VIII 24" x 24" LAY-IN SUSPENDED CEILING TILE (UL FIRE RESISTANT)
- **L9** - TYPE IX LARGE FORMAT LAY-IN SUSPENDED CEILING TILE (GLASS FIBER)
- **MCS** - METAL CEILING SYSTEM
- **MS** - METAL SOFFIT PANEL
- **PL** - PLASTER
- **WD** - LINEAR WOOD CEILING

DEFAULT FINISHES

IF ANY ROOM IS NOT IDENTIFIED BY A ROOM FINISH TAG, THE FOLLOWING FINISHES SHALL BE USED AS "TYPICAL" OR "DEFAULT" FINISHES FOR BIDDING PURPOSES. VERIFY FINISHES WITH ARCHITECT BEFORE INSTALLATION.

CEILING - L1
CEILING HEIGHT - 9' - 0" A.F.F.

CEILING FINISH LEGEND

- **LAY-IN CEILING**
- **GYPSUM BOARD CEILING** WITH CONTROL JOINTS . FINISH AS INDICATED
- **PLASTER SOFFIT** WITH CONTROL JOINTS. FINISH AS INDICATED
- **METAL SOFFIT PANELS**
- **LIGHT FIXTURES** - REF. ELECTRICAL
- P.S. **PROJECTION SCREENS** - REF. A4 SHEETS
- **HVAC GRILLE, DIFFUSER** - REF. MECHANICAL DRAWINGS.
- **SOUND BATT ABOVE CEILING**

  WHERE THIS HATCH IS SHOWN, PROVIDE FULL COVERAGE ACOUSTICAL BATT INSULATION ABOVE FINISHED CEILING.
- **FIRE RATED CEILING ASSEMBLY**
- **EXISTING CEILING**

WHERE THIS HATCH IS SHOWN, PROVIDE A FIRE-RATED CEILING ASSEMBLY AS DETAILED AND NOTED. REFER TO PLAN NOTES AND CONSTRUCTION DETAILING FOR TERMINATION POINT OF ADJACENT FIRE-RATED WALL ASSEMBLIES. RATING SHALL EQUAL THAT OF SURROUNDING WALLS.

REFLECTED CEILING LEGEND

Revision /	Date
3	05/14/25 ADDENDUM 03

Project:

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2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
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Jason Andrus
TX 19417

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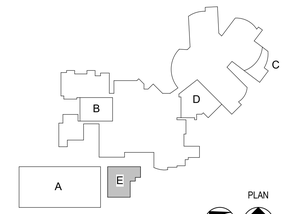

KEY PLAN
NTS

PLAN
TRUE

REFLECTED CEILING PLAN - AREA E

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. POST BID ADD 1 A2.1E1
Drawn By: YR/AB	
Date: 05/27/2025	

5/14/2025 10:03:02 AM
Autodesk Docs://HAYS CISD - LEHMAN, JOHNSON HS ADD RENO 2025/01954-08-01_LHS2025_V23.rvt

EXPANSIVE SOIL PLUMBING GENERAL NOTES

FLEXIBLE PIPING CONNECTION BASIS OF DESIGN: "EBAA IRON INC"; FLEX-TEND, EXTEND, PVC, DUCTILE IRON AS SPECIFIED AND INDICATED ON PLANS.

GENERAL NOTES:

A. PIPING ISOLATION FROM SOIL IS REQUIRED IN ALL LOCATIONS THAT SLAB IS REQUIRED TO BE ISOLATED FROM SOIL.
   - STRUCTURED SLABS WITH CRAWL SPACE. PIPING SUSPENDED FROM SLAB.
   - STRUCTURED SLABS WITH VOID FORMS. PIPING ISOLATED FROM SOIL THROUGH ENGINEERED SYSTEM. EXAMPLE "MUDSKIPPER"

B. ALL INSTALLATION REQUIREMENTS MUST PER LATEST MANUFACTURER DETAILS, SPECIFICATIONS, INSTALLATION INSTRUCTIONS.

C. LOCATIONS: ALL PIPES AT ALL LOCATIONS THAT TRANSITION BETWEEN ISOLATION FROM SOIL TO DIRECT BURY ARE REQUIRED TO HAVE "FLEX PIPING FITTING CONNECTION" INSTALLED. SOME LOCATIONS ARE SPECIFICALLY IDENTIFIED AS EXAMPLES, BUT CONTRACTOR IS REQUIRED TO PROVIDE "FLEX PIPING FITTING CONNECTION" AT ALL LOCATIONS WHERE PIPE SYSTEM TRANSITIONS FROM ISOLATED FROM SOIL TO DIRECT BURY. ALSO INCLUDING BUT NOT LIMITED TO CIVIL CONNECTIONS. REFERENCE NOTES AND DETAILS FOR ADDITIONAL INFORMATION.

D. CONTRACTOR MUST REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

E. THESE NOTES COMPLIMENT SPECIFICATIONS AND DETAILS PROVIDED. REFERENCE SPECIFICATIONS.

F. PLUMBING CONTRACTOR REQUIRED TO PROVIDE ALL FLOW LINES NEEDED TO COORDINATE WITH CIVIL CONNECTIONS AND PIPING SUPPORT SYSTEM WHEN PRESENT. PLUMBING CONTRACTOR MAY SUGGEST ADJUSTMENTS TO PIPING LAYOUT IF DESIRED TO MAKE INSTALLATION MORE EFFICIENT FOR CONTRACTOR. THIS IS NOT FOR ASKING FOR A CHANGE ORDER. THIS IS FOR FLEXIBILITY TO SIMPLIFY CONTRACTOR INSTALLATION WITH NO CHANGE IN PRICE.

PIPING VAULTS: PIPING VAULTS ARE REQUIRED WHERE FLEXIBLE PIPING CONNECTIONS ARE MADE. REFERENCE STRUCTURAL DETAILS AND PIPING ISOLATION SYSTEM MANUFACTURER DETAILS. WHEN PRESENT, FOR CONCRETE VAULTS. GENERALLY GREASE TRAPS, ACID NEUTRALIZATION TANKS, SAND OIL SEPARATORS ETC.. ARE LOCATED OUTSIDE VAULTS DUE TO AVOID INSTALLATION COMPLEXITY.

DETAILS REFERENCE (INCLUDING BUT NOT LIMITED TOO)

1. CW BUILDING ENTRY DETAIL - FOR EXPANSIVE SOILS.
2. STRUCTURAL DETAILS ON STRUCTURAL ENGINEERS PLANS.
   - TYPICAL COLD WATER CONNECTION DETAIL
   - TYPICAL WASTE WATER CONNECTION DETAIL
   - TYPICAL FIRE LINE CONNECTION DETAIL
   - TYPICAL STORM SEWER CONNECTION DETAIL
3. FLEXIBLE CONNECTION MANUFACTURER (EBAA IRON INC.) - PRODUCT SPECIFIC INSTALLATION DETAILS AND INSTRUCTIONS.
4. PIPING ISOLATION SYSTEM MANUFACTURER SPECIFIC INSTALLATION DETAILS. (IE: MUDSKIPPER)

WASTE WATER/SANITARY SEWER PIPING

1. PROVIDE DOUBLE BALL FLEXIBLE EXPANSION JOINT EQUAL TO "EBAA IRON INC" PVC FLEX-TEND
2. PROVIDE 'EBAA IRON INC" RESTRAINED FITTINGS ON EACH SIDE OF EXPANSION JOINT AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. RIGIDLY SECURE PIPE. TO CONCRETE BEAM WITH A MINIMUM OF TWO PIPE CLAMPS SECURED TO UNISTRUT PRIOR TO EXPANSION JOINT. REFERENCE STRUCTURAL DETAIL ON STRUCTURAL DETAIL SHEETS FOR ADDITIONAL INFORMATION.
3. PLUMBING CONTRACTOR TO CLOSELY COORDINATE CONCRETE BEAM LOCATION AND ELEVATION. INSTALL 6" OF SODIUM BENTONITE CLAY PLUG THAT EXTENDS A MINIMUM OF 6" PAST THE EDGES OF THE SOIL RETAINERS.
4. PIPING EXTENDING THRU THE SOIL RETAINER TO BE "MUDSKIPPER TAIL" COMPRISED OF 4" C900 PIPING ENCASED IN 12" PVC FILLED WITH CONCRETE.

STORM SEWER PIPING (RAIN LEADERS)

1. PROVIDE DOUBLE BALL FLEXIBLE EXPANSION JOINT EQUAL TO "EBAA IRON INC" FLEX TEND.
2. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PIPING UPSTREAM OF EXPANSION JOINT TO BE RIGIDLY SECURED TO STRUCTURE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

COLD WATER PIPING

1. PROVIDE "EBAA IRON INC" EX-TEND FORCE BALANCED EXPANSION AND CONTRACTION JOINT.
2. REFERENCE CW BUILDING ENTRY DETAIL ON PLUMBING DETAIL SHEET(S).
3. SECURE PIPING UPSTREAM OF FLEXIBLE JOINT WITH TWO RISER CLAMPS RIGIDLY ATTACHED TO TOP AND BOTTOM OF STRUCTURAL FRAME.
4. REFERENCE "TYPICAL DOMESTIC, FIRE AND ROOF DRAIN EX-TEND PIPE SUPPORT DETAIL ON STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
5. PROVIDE BUILDING SHUT-OFF ABOVE FRAME.
6. FIELD VERIFY EXACT LOCATION AND INVERT.

FIRE LINE WATER PIPING

1. PROVIDE "EBAA IRON INC" EX-TEND FORCE BALANCED EXPANSION AND CONTRACTION JOINT.
2. SECURE PIPING UPSTREAM OF FLEXIBLE JOINT WITH TWO RISER CLAMPS ATTACHED TO TOP AND BOTTOM OF STRUCTURAL FRAME.
3. REFERENCE "TYPICAL DOMESTIC, FIRE AND ROOF DRAIN EX-TEND PIPE SUPPORT DETAIL" ON STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
4. PROVIDE THRUST BLOCKING AT BASE OF RISER.
5. FIELD VERIFY EXACT LOCATION AND INVERT.

DEMO PLUMBING SHEET NOTES

THESE NOTES APPLY TO ALL SHEETS

1. COORDINATE EXISTING SLAB AND WALL REMOVAL AND CUTTING REQUIRED FOR INSTALLATION OF NEW PLUMBING FIXTURES AND PIPING WITH ARCHITECT AND STRUCTURAL PRIOR TO ANY DEMOLITION. INCLUDE ALL MATERIAL REQUIRED FOR RECONNECTION TO EXISTING SERVICES.
2. REMOVE ALL PIPING ASSOCIATED WITH REMOVAL OF EXISTING FIXTURES AS EXISTING CONDITIONS PERMIT. CAP ANY UNUSED PIPING THAT REMAINS. REFERENCE ARCHITECTURAL DEMOLITION PLANS
3. ALL EXISTING UTILITIES THAT PENETRATE FLOOR AND ARE UNUSED ARE TO BE REMOVED BACK TO BELOW FLOOR AND CAPPED WATERTIGHT.
4. THERE WERE NO EXISTING AS-BUILT DRAWINGS OF THE EXISTING BUILDING AVAILABLE AT THE TIME OF THIS DESIGN. CONTRACTOR TO FIELD VERIFY THE LOCATION AND SIZES OF ALL EXISTING UTILITIES. DOCUMENT LOCATIONS IN RECORD DRAWINGS FOR OWNER.
5. CONTRACTOR SHALL REFERENCE ARCHITECTURAL DEMO PLANS FOR ALL WALLS, CEILINGS, CASEWORK AND PLUMBING FIXTURES BEING REMOVED. REMOVE ALL WATER PIPING TO ABOVE CEILING AND PROVIDE SHUT OFF VALVE AND CAP IF NOT BEING REUSED. ANY WASTE LINE IN DEMO AREA MUST RETAIN FLOW UNLESS SPECIFICALLY BEING REMOVED. IF VENTING IS DEMOLISHED PROVIDE NEW VENT IN NEW WALL AS REQUIRED.
6. FLOOR TRENCHING & REPAIRING: CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING ALL CUTTING, TRENCHING, REPAIRING OF FLOORS AND VERIFYING ALL LOCATIONS AS REQUIRED. REFERENCE ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

M/P ABBREVIATION SCHEDULE

AD	ACCESS DOOR	MAINT	MAINTENANCE
ABV	ABOVE	MAU	MAKEUP AIR UNIT
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT	MC	MECHANICAL CONTRACTOR
AUTO	AUTOMATIC	MBH	1000 BTU PER HOUR
AUX	AUXILIARY	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MH	MANHOLE
		MIN	MINIMUM
BD	BALANCE DAMPER	MISC	MISCELLANEOUS
BFF	BELOW FINISHED FLOOR	MTD	MOUNTED
BLDG	BUILDING	MOD	MOTOR OPERATED DAMPER
BOD	BOTTOM OF DUCT		
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BF	BOOSTER FAN	N.O.	NORMALLY OPEN
		N.C.	NORMALLY CLOSED
CLG	CEILING	NO.	NUMBER
CLR	CLEAR/CLEARANCE	NTS	NOT TO SCALE
CO	CLEANOUT		
COL	COLUMN	O/A	OUTDOOR AIR
CONC	CONCRETE	OBD	OPPOSED BLADE DAMPER
CONTR	CONTRACTOR	OC	ON CENTER(S)
CW	COLD WATER	OPNG	OPENING
CONN	CONNECTION	ORL	OVERFLOW RAINLEADER
CU	CONDENSING UNIT	OAH	OUTSIDE AIR HOOD
Cu	COPPER		
CHS	CHILLED WATER SUPPLY	PC	PLUMBING CONTRACTOR
CHR	CHILLED WATER RETURN	PH	PHASE
		PLBG	PLUMBING
DIA	DIAMETER		
DN	DOWN	R/A	RETURN AIR
DWG	DRAWING	RE:	REFERENCE/REFER TO
DH	DUCT HEATER	REFRIG	REFRIGERANT
E/A	EXHAUST AIR	REF	REFRIGERATOR
EC	ELECTRICAL CONTRACTOR	REQD	REQUIRED
EF	EXHAUST FAN	RHP	RADIANT HEAT PANEL
ELEC	ELECTRIC/ELECTRICAL	RL	RAINLEADER
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RTU	ROOFTOP UNIT
EX	EXISTING		
EXH	EXHAUST	S/A	SUPPLY AIR
E.S.P.	EXTERNAL STATIC PRESSURE	SCH	SCHEDULE
ERV	ENERGY RECOVERY VENTILATOR	SP	STATIC PRESSURE
		SPEC	SPECIFICATION
FCO	FLOOR CLEAN OUT	SD	STORM DRAIN
FCU	FAN COIL UNIT	SF	SUPPLY FAN
FF	FINISHED FLOOR		
FLEX	FLEXIBLE	TSP	TOTAL STATIC PRESSURE
FLR	FLOOR/FLOORING	TYP	TYPICAL
		UON	UNLESS OTHERWISE NOTED
GA	GAUGE	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UH	UNIT HEATER
GEN	GENERAL		
GYP	GYPSUM BOARD	V	VENT (PLUMBING)
		V	VOLTAGE (ELECTRICAL)
HP	HEAT PUMP	VTR	VENT THROUGH ROOF
Hp	HORSEPOWER		
HT	HEIGHT	W/	WITH
HW	HOT WATER	W/O	WITHOUT
HWC	HOT WATER CIRC	WP	WATERPROOF
HR	HOUR	WT	WEIGHT
HWR	HEATING WATER RETURN	WTR	WATER
HWS	HEATING WATER SUPPLY	WW	WASTE WATER
		WCO	WALL CLEANOUT
LOC	LOCATION	WH	WATER HEATER

PLUMBING LEGEND

SYMBOL	ABB.	DESCRIPTION
—— ——	CW	COLD WATER PIPING
—— ——	HW	HOT WATER PIPING
—— ——	HWR	HOT WATER RETURN PIPING
—— ——	WW	WASTE WATER
— — — —		VENT PIPING
—— T ——		TEMPERED WATER
—— G ——		GAS PIPING
—— F ——		FIRE LINE
—— GT ——		GREASE TRAP LINE
—— A ——		COMPRESSED AIR PIPING
—— D ——		RELIEF OR CONDENSATE DRAIN PIPING
—— SD ——	SD	STORM DRAIN
—— RL ——	RL	RAIN LEADER
—— ORL ——	ORL	OVERFLOW RAIN LEADER
		FULL PORT BALL PIPE ISOLATION VALVE
OR	HB	HOSE BIBB/WALL HYDRANT
		UNION
	FD/FS	FLOOR DRAIN/FLOOR SINK
	HD	HUB DRAIN
	CO	CLEAN OUT
		DOUBLE CLEAN OUT
	WCO	WALL CLEAN OUT
		GAS COCK
		BALANCE VALVE
FLOW		CHECK VALVE
		POINT OF CONNECTION
		GAS PRESSURE REGULATOR

PIPE SIZING REQUIREMENTS

1. **FLOOR DRAIN: TRAP SEAL PROTECTION**: ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS MUST HAVE TRAP PRIMERS AND TRAP GUARDS. PRIMARY METHOD OF TRAP PRIMING REQUIRED BY DOCUMENTS IS THE INVERTED TEE CONNECTION (JAY R SMITH PRIME-EZE OR EQUAL) FROM SINK TAILPIECE OR FLUSH VALVE TYPE CONNECTION FOR TRAP PRIMING WITH GRAY WATER. PRIOR TO USING ANY OTHER TRAP PRIMING METHOD, CONTRACTOR MUST SUBMIT RFI AND SHOP DRAWING, DETAILING WHY INVERTED TEE METHOD CANNOT BE USED, AND INDICATE ALL LOCATIONS BEING REQUESTED FOR ALTERNATE COMPLIANCE. IF APPROVED IN WRITING (PRIOR TO ANY INSTALLATION) BY OWNER/ENGINEER, THE LAST RESORT FOR ALTERNATE COMPLIANCE WILL BE ELECTRONIC TRAP PRIMER (MANUFACTURER: SIOUX CHIEF 695-ES01 OR EQUAL AS REQUIRED), CONNECTED TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE MINIMUM 12 X 12 STAINLESS STEEL ACCESS PANEL AS REQUIRED. COORDINATE 120VOLT POWER AND DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR. **IN ADDITION TO TRAP PRIMER, ALSO PROVIDE PROSET "TRAP GUARD" OR EQUIVALENT DEVICE FOR ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS.**
2. HOT WATER WALL/CHASE: AT ALL PUBLIC LAVATORIES A HOT WATER MANIFOLD WILL BE ROUTED PARALLEL TO HOT WATER RECIRC MAIN DOWN FULL SIZE INTO ONE SIDE OF CHASE AND WILL BE CONNECTED BACK TO HOT WATER RECIRC MAIN OUT OF OPPOSITE SIDE OF CHASE TO COMPLY WITH INTERNATIONAL ENERGY CODE (IECC) MAXIMUM ALLOWABLE HOT WATER PIPING LENGTH FROM MANIFOLD. (TAP SIZE: FOR 3/8", PIPING MAXIMUM LENGTH = 3 FEET. FOR 1/2" MAXIMUM LENGTH = 2 FEET). FOR ACCESSIBLE CHASES PIPING MUST BE ROUTED ALONG WALL, NOT DOWN THE CENTER TO PROVIDE MAXIMUM MAINTENANCE ACCESS. FULL SIZE SHUT OFF VALVE REQUIRED FOR HW PIPE TO ISOLATE CHASE, FULL SIZE BALANCE VALVE REQUIRED ON HW RECIRC LINE LEAVING WALL OR CHASE.
3. COLD WATER WALL/CHASE: PIPING SIZE FOR WATER MAIN DROPS AND MANIFOLD IN CHASE OR WALL TO REMAIN FULL SIZE OF DROP INDICATED FOR ENTIRE LENGTH OF CHASE. FOR ACCESSIBLE CHASE, MAIN IS TO TEE INTO 2 FULL SIZE MAINS RUN DOWN EACH WALL SURFACE TO MAINTAIN MAXIMUM SERVICE CLEARANCE. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL LINE SIZE TO EACH FIXTURE. FULL SIZE SHUT OFF VALVE REQUIRED TO ISOLATE CHASE. WHEN CHASE IS ACCESSIBLE PROVIDE VALVE TO ISOLATE MAINS ON EACH SIDE OF CHASE, LOCATE IN CHASE ACCESSIBLE FROM FLOOR.
4. WASTE WATER/SANITARY SEWER: COORDINATE ALL WASTEWATER/SANITARY SEWER FLOOR PENETRATIONS AND PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO INSTALLATION. PIPING MAY BE OFFSET SLIGHTLY TO AVOID STRUCTURAL CONFLICTS. PROVIDE CONNECTIONS TO ALL FIXTURES PER SCHEDULE. PROVIDE CLEANOUTS AT MINIMUM PER IPC 708, AND AS SHOWN ON PLANS AND EVERY 50 FT OF WASTE LINE.
5. VENT: ROUTE VENT FROM EACH FIXTURE TO HORIZONTAL VENT HEADER IN CHASE/WALL OR TO NEAREST COMMON VTR ABOVE CEILING. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL FIXTURE VENT SIZES. VENT HEADERS IN CHASE TO BE SIZED ACCORDINGLY: 1 1/2" VENT UP TO 6 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 60 FEET (EXCEPT FOR WATER CLOSETS), 2" VENT UP TO 20 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 120 FEET, 3" VENT UP TO 84 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 212 FEET AND 4" VENT UP TO 256 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 300 FEET. BRANCH VENTS EXCEEDING 40 FEET IN DEVELOPED LENGTH ARE TO BE INCREASED BY ONE PIPE SIZE. NO MORE THAN 1/3 OF THE CODE PERMITTED DEVELOPED LENGTH SHALL BE IN HORIZONTAL POSITION. EXTEND COMMON VENT UP THROUGH ROOF.
6. VENT: ROUTE ALL VENTS TO NEAREST COMMON VENT THRU ROOF (VTR) TO MINIMIZE ROOF PENETRATIONS. VTR TO BE MINIMUM 15 FEET AWAY FROM ALL OUTSIDE AIR INTAKES. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
7. DIAGRAMMATIC DRAWINGS: DISTRIBUTION AND MAIN PIPING IS SHOWN AT OR NEAR ALL PLUMBING FIXTURES. FINAL CONNECTIONS TO EACH FIXTURE FOR CW, HW, WW, VENT, VALVES ARE TO BE PROVIDED PER NOTES, SCHEDULES, AND TYPICAL DETAILS PROVIDED. FINAL CONNECTIONS AND INDIVIDUAL FIXTURE SHUT-OFF VALVES ARE NOT SPECIFICALLY DRAWN AT EACH LOCATION, BUT ARE REQUIRED AS DESCRIBED HERE.

FIXTURE CONNECTION SCHEDULE

MARK	CW	HW	WASTE	DRAIN FIXTURE UNITS	VENT	
WATER CLOSET (FLUSH VALVE)	1"	-	4"	6	2"	
WATER CLOSET (TANK TYPE)	1/2"	-	4"	4	2"	
URINAL	3/4"	-	2"	2	2"	
PUBLIC LAVATORY *	3/8"	3/8"	2"	1	1 1/2" * *	4
SINK * * *	1/2"	1/2"	2"	2	1 1/2" * *	
SERVICE SINK	3/4"	3/4"	3"	2	2"	
WASH FOUNTAIN *	1/2"	1/2"	2"	2	1 1/2" * *	
EWC	1/2"	-	2"	1	1 1/2" * *	
WASHING MACHINE	3/4"	3/4"	2"	2	2"	
HOSE BIBB	3/4"	-	-	-	-	
SHOWER * * * *	1/2"	1/2"	3"	2	1 1/2"	
FLOOR DRAIN	-	-	3"	2	2"	
FLOOR SINK	-	-	4"	2	2"	
GREASE TRAP	-	-	SEE PLANS	--	2" MIN	
COMMERCIAL WASHER	1" (3)	1"(3)	4"(IN PIT)	--	2" MIN	1, 3
KITCHEN	SEE PLANS (2)	SEE PLANS (2)	SEE PLANS	SEE PLANS (2)	SEE PLANS (2)	1, 2, 3
EMERGENCY SHOWER	1-1/2"	-	4"	--	2" MIN	

* HOT AND COLD WATER REQUIRED UNLESS NOTED OTHERWISE ON PLUMBING FIXTURE SCHEDULE. PROVIDE TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.

* * IF HORIZONTAL VENT LENGTH EXCEEDS 20 FEET, INCREASE VENT SIZE TO TWO INCHES.

* * * COMMERCIAL KITCHEN SINKS GET HOT WATER, REMAINDER TO BE PROVIDED WITH TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.

* * * * SHOWER VALVES TO BE BALANCED-PRESSURE, THERMOSTATIC OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC CONFORMING TO ASSE 1016.

1. REFERENCE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FINAL CONNECTION REQUIREMENTS AND SIZES.
2. KITCHEN EQUIPMENT. REFERENCE KITCHEN CONSULTANT DRAWINGS FOR FINAL CONNECTION REQUIREMENTS AND SIZE. IF THERE IS A CONFLICT NOTIFY ENGINEER PRIOR TO INSTALLATION OF ANY PIPING.
3. CONNECTION SIZE SHOWN IS MINIMUM. IF EQUIPMENT CONNECTION SIZE IS LARGER, PROVIDE LARGER.
4. PROVIDE 1/2" HOT WATER RETURN FROM EACH PUBLIC LAV OR GROUP OF LAV, WITH CIRCUIT SOLVER THERMOSTATIC MIXING VALVE AND BALL VALVE FOR ISOLATION. PROVIDE AT DISTANCE REQUIRED BY ENERGY CODE AND LOCAL AHJ.

VALVES: (FULL SIZE OF PIPE) VALVES REQUIRED AS FOLLOWS, INDIVIDUAL FIXTURE AND CHASE VALVES MAY NOT BE SPECIFICALLY DRAWN, BUT ARE REQUIRED AS NOTED. ADDITIONAL DISTRIBUTION ISOLATION VALVES ARE INDICATED ON PLUMBING PLANS.
INDIVIDUAL FIXTURE: SHUT-OFF VALVES, ABOVE CEILING, ARE REQUIRED AT EACH INDIVIDUAL FIXTURE FOR HOT WATER AND COLD WATER.
GANG RESTROOMS: FOR GANG RESTROOM WITH CHASES PROVIDE THE FOLLOWING. INDIVIDUAL FIXTURE VALVE ISOLATION NOT REQUIRED INSIDE CHASE. UNLESS SPECIFICALLY NOTED.
INACCESSIBLE CHASE: PROVIDE SHUT-OFF VALVE FOR COLD WATER AND HOT WATER AND PROVIDE BALANCING VALVE FOR HOT WATER RECIRC LINE FEEDING CHASE. LOCATE IN HALLWAY ABOVE CEILING.
ACCESSIBLE CHASE: PROVIDE SHUT-OFF VALVE FOR COLD WATER AND HOT WATER AND PROVIDE BALANCING VALVE FOR HOT WATER RECIRC LINE FEEDING CHASE. LOCATE INSIDE CHASE IN ACCESSIBLE LOCATION NOT REQUIRING A LADDER.

PLUMBING GENERAL NOTES

A. **EXISTING CONDITIONS:** THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.

B. **REVIEW ALL DRAWINGS:** CONTRACTORS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.

C. **CODES:** ALL WORK SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, ASHRAE, NFPA, APPLICABLE BUILDING CODE, APPLICABLE MECHANICAL CODE, APPLICABLE PLUMBING CODE, APPLICABLE ENERGY CODE, NATIONAL ELECTRICAL CODE, AGA, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN.

D. **CODES/AHJ:** THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT. PROVIDE CODE APPROVED CONDENSATE DISPOSAL POINT FOR ALL MECHANICAL EQUIPMENT TO DRAIN TO. COORDINATE WITH MECHANICAL CONTRACTOR.

E. **ELECTRIC/TECHNOLOGY ROOMS:** ABSOLUTELY NO PIPING OR DUCTWORK CAN BE ROUTED ABOVE ELECTRICAL PANELS, GEAR OR TRANSFORMERS. THE ONLY HVAC, PLUMBING, SPRINKLER OR DUCTWORK THAT CAN ENTER AN ELECTRIC/TECHNOLOGY ROOM ARE THOSE SPECIFICALLY SERVING THAT ROOM. THESE SERVICES CAN ONLY ENTER INTO ELECTRIC/TECHNOLOGY ROOM ABOVE ENTRY DOOR.

F. **VALVE TAGS:** PROVIDE VALVE TAGS FOR ALL VALVES. PROVIDE CEILING ACCESS MARKERS FOR VALVES LOCATED ABOVE CEILING OR BEHIND WALL MOUNTED PANEL.

G. **VALVE ACCESS:** ALL VALVES ARE TO BE ACCESSIBLE AND SHALL NOT BE LOCATED MORE THAN FOUR FEET ABOVE THE CEILING

H. **BLOCKING ACCESS:** PLUMBING PIPING SHALL NOT BLOCK ACCESS TO EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ACCESS DOORS, ETC.

I. **BLOCKING FUTURE ACCESS:** DO NOT ROUTE PIPING UNDER EQUIPMENT LOCATED ABOVE CEILING. ROUTE PIPING AROUND EQUIPMENT TO ALLOW FOR ACCESS AROUND EQUIPMENT AND FOR FUTURE REMOVAL OF EQUIPMENT

J. **FIXTURE CONNECTION:** CONTRACTOR TO CONNECT COLD WATER, HOT/TEMPERED WATER, WASTE WATER AND VENT PIPING TO ALL FIXTURES PER MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE NOTED ON DRAWINGS.

K. **TRENCHING:** BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE, UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS.

L. FIRE SEAL AROUND ALL PIPING AT PENETRATIONS THROUGH RATED WALLS, CEILINGS AND TUNNELS PER UL LISTED MATERIAL FOR ACTUAL SEALANT BEING USED. COORDINATE WITH ARCHITECTURAL PLANS FOR RATED WALL LOCATION.

M. **TOOLS:** PROVIDE ALL APPROPRIATE TOOLS, WRENCHES, KEYS, ETC. AS REQUIRED FOR ACCESS AND OPERATION OF VALVES, COVERS, ETC.

N. **GAS WATER HEATERS:** PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING FLUES AND COMBUSTION AIR PIPING TO EXTERIOR FOR GAS FIRED WATER HEATERS/BOILERS PROVIDED BY PLUMBER.

O. **WATER HEATER TRAPS:** PROVIDE HEAT TRAPS ON INCOMING AND DISCHARGE LINES FROM WATER HEATERS WHICH DO NOT HAVE THEM FACTORY INSTALLED OR ARE NOT CONNECTED TO A RECIRCULATING SYSTEM.

P. **WATER HAMMER ARRESTORS:** PROVIDE WATER HAMMER ARRESTORS WITH ACCESSIBLE ISOLATION VALVE ON COLD WATER AND HOT WATER SUPPLIES TO ALL PLUMBING FIXTURES. PROVIDE ACCESS DOOR FOR ALL CONCEALED ARRESTORS. WATER HAMMER ARRESTERS SHALL BE CERTIFIED BY THE PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARD WH-201 . **ARRESTORS ARE TO BE INSTALLED IN LOCATIONS AND SIZED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE LATEST EDITION OF THE WATER HAMMER ARRESTERS STANDARD PDI WH 201. WHEN A BRANCH EXCEEDS 20' IN LENGTH THEN AN ADDITIONAL ARRESTOR IS REQUIRED. CONTRACTOR TO PROVIDE A PLAN SHOWING WATER HAMMERS LOCATIONS, SIZE AND FIXTURE UNITS SERVED ON EACH BRANCH LINE.**

2

Revision /	Date	Addendum No.3
2	05/14/25	

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

Project:

STATE OF TEXAS
BRIAN J. HENDRIX
94813
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRIAN J. HENDRIX, P.E. NO. 94813 ON 04/23/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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NOTES AND LEGENDS - PLUMBING

PACKAGE VOLUME

Job No. 01954-08-01

Sheet No. ISSUE FOR BID P0.01

Drawn By: KAM

Date: 04/22/2025

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PLUMBING FIXTURE SCHEDULE

NOTES:

1. PROVIDE WASTE, COLD WATER, HOT WATER, AND VENT PIPING TO ALL PLUMBING FIXTURES AS DESCRIBED IN PLUMBING "FIXTURE CONNECTION SCHEDULE".
2. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL WALL HUNG FIXTURES TO BE INSTALLED WITH WALL CARRIERS, VERIFY CONFIGURATION TYPE.
4. PROVIDE VANDAL RESISTANT SCREWS AT ALL FIXTURES.
5. INSTALL STAINLESS STEEL CAPS AT ALL UNUSED LAVATORY FAUCET HOLES.
6. NO OFFSET FLANGES WILL BE ALLOWED FOR WATER CLOSET INSTALLATIONS.
7. GROUT FOR LEVELING WATER CLOSETS SHALL NOT EXTEND UP ON SIDE OF WATER CLOSET BASES. TAKE GROUT BACK TO MINIMUM 1/8" UNDER BASE AND CAULK FOR FINAL FINISH. VERIFY CAULK COLOR AND TYPE WITH ARCHITECT.
8. REFERENCE ARCHITECTURAL CONTRACT DOCUMENTS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. CONTACT ARCHITECT FOR ADDITIONAL INFORMATION AS REQUIRED.
9. PROVIDE INVERTED TEE CONNECTION FROM SINK TAILPIECE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE ELECTRONIC TYPE TRAP PRIMER (SIOUX CHIEF MODEL 695-ES01 FOR UP TO 8 FLOOR DRAINS WITH CORRECT ACCESSORIES). PROVIDE FLUSH MOUNTING BOX WITH KEYED SS COVER. CONNECT TO NEAREST UNSWITCHED 120 VOLT POWER AND PROVIDE DISCONNECTING MEANS. CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. ALL PLUMBING FIXTURES TO BE "LEAD FREE" AB1953 COMPLIANT (.25% OR LESS AVERAGE LEAD CONTENT). PROVIDE DOCUMENTATION IN SUBMITTALS THAT THIS REQUIREMENT IS MET FOR EACH APPLICABLE FIXTURE.
11. PROVIDE WATER HAMMER ARRESTORS AT ALL PLUMBING FIXTURES. PROVIDE SIZE RECOMMENDED BY MANUFACTURER AND INSTALL IN LOCATIONS AS DIRECTED BY MANUFACTURER.

WC
WATER CLOSET: AMERICAN STANDARD FLOWISE MODEL 2234.001, FLOOR MOUNTED, VITREOUS CHINA, 1 1/2" TOP SPUD, 15" HIGH ELONGATED BOWL.
EXPOSED FLUSH VALVE: SLOAN ROYAL #111, 1.28 GALLON FLUSH.
SEAT: BEMIS 1955C OR EQUIVALENT. STAINLESS STEEL HARDWARE ONLY (NO PLASTIC ALLOWED).

WCH
WATER CLOSET (ADULT ADA): AMERICAN STANDARD FLOWISE MODEL 3461.001 WITH EVERCLEAN, FLOOR MOUNTED, VITREOUS CHINA, 1-1/2" TOP SPUD, 16-1/2" HIGH ELONGATED BOWL.
EXPOSED FLUSH VALVE: SLOAN ROYAL #111, 1.28 GALLON FLUSH.
SEAT: BEMIS 1955C OR EQUIVALENT. STAINLESS STEEL HARDWARE ONLY (NO PLASTIC ALLOWED).

LH (WALL HUNG-ADULT)
LAVATORY (ADA): AMERICAN STANDARD 0356.015, 20" x 18" VITREOUS CHINA, WALL HUNG, 8" FAUCET CENTERS AND GRID STRAINER. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LF6480 SERIES, 0.25 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.2 GPM AT 10 psi DROP. SET AT 105° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).
FAUCET: CHICAGO #404-V317E66ABCP, TEMPERED AND COLD WATER, 4" WRIST BLADE HANDLES, AERATOR.

SKH
SINK (ADA): ELKAY #LRAD-2219-55 (OFF-CENTER DRAIN), 18 GAUGE STAINLESS STEEL, SELF-RIM, 18" x 14" x 5.5" DEEP BOWL, THREE (3) FAUCET HOLES WITH STAINLESS STEEL BASKET STRAINER. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LF6480 SERIES, 0.5 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.6 GPM AT 10 psi DROP. SET AT 105° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).
FAUCET: ELKAY #LKD2423BHC, SWING GOOSENECK, WRIST BLADE HANDLES.

KSH
KITCHEN SINK (ADA): ELKAY #LRAD-3319 (OFF-CENTER DRAIN), 18 GAUGE STAINLESS STEEL, SELF-RIM, TWO (2) 14" x 14" x 5.5" DEEP BOWLS, FOUR (4) FAUCET HOLES WITH TWO (2) STAINLESS STEEL BASKET STRAINERS. FAUCET HOLE FOR SIDE SPRAY TO BE 6" FROM ADJACENT HOLE TO ACCOMMODATE 4" WRISTBLADE HANDLE. PROVIDE WITH TEMPERATURE MIXING VALVE EQUAL TO POWERS HYDROGUARD LF6480 SERIES, 0.5 GPM MINIMUM FLOW, ASSE 1070, INTEGRAL CHECKS, 1.6 GPM AT 10 psi DROP. SET AT 110° F MAXIMUM (VERIFY ACTUAL TEMPERATURE REQUIRED WITH OWNER).
FAUCET: CHICAGO #1102-GN8AE35-317AB, GOOSENECK, TEMPERED AND COLD WATER, 4" WRIST BLADE HANDLES, 1.5 GPM AERATOR, SIDE SPRAY.

EWCHBF (NON-FILTERED. NO SUBSTITUTIONS - OWNER PREFERENCE)
ELECTRIC WATER COOLER WITH BOTTLE FILLER (ADA): ELKAY #VRCGRNTLBWSCK, HIGH EFFICIENCY, NON-FILTERED, SENSOR ACTIVATED BOTTLE FILLING STATION, VANDAL RESISTANT, TWO (2) STATION, VANDAL RESISTANT PUSH BUTTON IN FRONT, VANDAL RESISTANT BUBBLERS, STAINLESS STEEL FINISH, and CANE APRON. 120V-1PH. MODIFIED WITH BOTTLE FILLER ON LOWER RIGHT UNIT. VERIFY EXACT LOCATION OF BOTTLE FILLER WITH ARCHITECT PRIOR TO ORDERING.

EWCHBFO (OUTSIDE USE NON-FILTERED)
ELECTRIC WATER COOLER WITH BOTTLE FILLER (ACCESSIBLE): ELKAY #VRCTLBWSK, INDOOR OUTDOOR APPLICATIONS, HIGH EFFICIENCY, NON-FILTERED, SENSOR ACTIVATED BOTTLE FILLING STATION, VANDAL RESISTANT, TWO (2) STATION, VANDAL RESISTANT PUSH BUTTON IN FRONT, VANDAL RESISTANT BUBBLERS, STAINLESS STEEL FINISH, and CANE APRON. 120V-1PH. MODIFIED WITH BOTTLE FILLER ON LOWER RIGHT UNIT. VERIFY EXACT LOCATION OF BOTTLE FILLER WITH ARCHITECT PRIOR TO ORDERING.

SS
SERVICE SINK: FIAT #TSB-3001, 32" x 32" x 12"H ONE-PIECE PRECAST TERRAZO WITH CONTINUOUS STAINLESS STEEL CAPS ON ALL CURBS AND 6" FRONT DROP THRESHOLD, 832-AA HOSE AND HOSE BRACKET, MSG-3232 STAINLESS STEEL WALL GUARD.
FAUCET: MOEN #8230 SERVICE SINK FAUCET WITH VACUUM BREAKER, THREADED SPOUT, SERVICE STOPS AND WALL BRACKET.
PROVIDE WITH ADDITIONAL HOSE BIBB EQUAL TO WOODFORD MODEL 26 ABOVE SERVICE SINK. THIS HOSE BIBB IS TO BE FED FROM WATTS 009 RPZ FOR CONTINUOUS PRESSURE APPLICATIONS.

HB
HOSE BIBB: WOODFORD MODEL B67 SERIES, IN FLUSH MOUNTING WALL BOX, ASSE 1052 OR 1011 BACKFLOW PROTECTED AUTOMATIC DRAINING, FREEZELESS, NO SPRAYBACK. PROVIDE SHUT-OFF VALVE INSIDE BUILDING IN ACCESSIBLE LOCATION. SLOPE LINE FROM SHUT-OFF VALVE TO WALL HYDRANT TO ALLOW DRAINING OF LINE FOR FREEZE PROTECTION.

HBRR (GANG RESTROOM HOSE BIBB)
HOSE BIBB (MILD CLIMATE): WADE MODEL 8709, NARROW WALL HYDRANT, TEE KEY OPERATOR, ANTI-SIPHON BACKFLOW PREVENTER, ¼ TURN CARTRIDGE, BRONZE CASING, STAINLESS STEEL BOX WITH HINGED COVER, ¾" HOSE CONNECTION, SCREWDRIVER OPERATED STOP VALVE.

HBR
ROOF MOUNTED HOSE BIBB: WOODFORD MODEL SRH-MS, FREEZELESS, NO DRAIN LINE REQUIRED, ASSE 1057 LISTED, ASSE 1052 LISTED BACKFLOW PREVENTER, MOUNTING SYSTEM, UNDER DECK SUPPORT FLANGE. BALL VALVE FOR SHUT-OFF TO BE LOCATED SO THAT IT IS ACCESSIBLE FROM AN EIGHT FOOT (OR SHORTER) LADDER.

WH-B1
WATER HEATER: A.O.SMITH MODEL DEL-10, 10 GALLON STORAGE, 1.5KW-120V-1PH NON-SIMULTANEOUS ELEMENTS, 8 GPH RECOVERY AT 80 DEGREES RISE.

WH-C1
WATER HEATER: A.O.SMITH MODEL DVE-120, 119 GALLON STORAGE, 12.3KW-208V-3PH, THREE 4.1 KW ELEMENTS, 63 GPH RECOVERY AT 80 DEGREES RISE.

WH-E1
WATER HEATER: A.O.SMITH MODEL DEN-50, 50 GALLON STORAGE, 6KW-208V-1PH NON-SIMULTANEOUS ELEMENTS, 31 GPH RECOVERY AT 80 DEGREES RISE.

HWRP-A1, B1, BC, C1, E1
HOT WATER RECIRCULATION PUMP: GRUNDFOS UPS15-55, THREE SPEED, 4 GPM AT TEN FEET (10') OF HEAD. 1/12 HP-120V-1PH.

FD
FLOOR DRAIN (GENERAL PURPOSE): C.I. BODY, FLASHING COLLAR, WEEPHOLES, ADJUSTABLE HEAVY DUTY STAINLESS STEEL SQUARE TOP (6" X6") AND STAINLESS STEEL SEDIMENT BASKET. MIFAB F1000-C-S-5-6-7 SERIES.

FD8
FLOOR DRAIN: (CONDENSATE DRAIN, WITH FUNNEL) C.I. BODY, WEEPHOLES, FLASHING COLLAR, ADJUSTABLE SATIN NICKEL BRONZE STRAINER (7" DIAMETER) 4" DIAMETER FUNNEL EXTENSION. MIFAB F1100 C N7-F4 SERIES.

FS
FLOOR SINK: 12" x 12" x 8" DEEP WITH ACID-RESISTING PORCELAIN ENAMEL INTERIOR, ALUMINUM INTERNAL DOME STRAINER, and STAINLESS STEEL GRATE (**1/2 GRATE TYPE**). MIFAB FS1730-3 SERIES.

FS1
FLOOR SINK: 12" x 12" x 8" DEEP WITH ACID-RESISTING PORCELAIN ENAMEL INTERIOR, ALUMINUM INTERNAL DOME STRAINER, and STAINLESS STEEL GRATE (**3/4 GRATE TYPE**). MIFAB FS1730-3 SERIES.

FS2
FLOOR SINK: 12" x 12" x 8" DEEP WITH ACID-RESISTING PORCELAIN ENAMEL INTERIOR, ALUMINUM INTERNAL DOME STRAINER, and STAINLESS STEEL GRATE (**HINGED FULL GRATE TYPE**). MIFAB FS1730-3 SERIES. 2

RD1 (PRIMARY)
PRIMARY ROOF DRAIN: CAST IRON BODY, FLASHING COLLAR, GRAVEL STOP, GALVANIZED METAL DOME, UNDER DECK CLAMP, EXTENSION AND SUMP RECEIVER. MIFAB R1200-12-B-E-U SERIES.

RD2 (OVERFLOW)
OVERFLOW ROOF DRAIN: SAME AS RD1, SET ADJUSTABLE INLET 2 INCHES HIGHER THAN INLET OF RD1. MIFAB R1200-12-B-E-U-WB. COORDINATE AND CONFIRM FINAL LOCATION WITH ROOFING CONSULTANT PRIOR TO ROUGH-IN.

DN
DISCHARGE NOZZLE: MIFAB R1960, STAINLESS STEEL WITH HINGED PERFORATED COVER. SAME SIZE AS RAINLEADER.

TMV-ESH
PROVIDE THERMOSTATIC MIXING VALVE SIZED FOR EMERGENCY SHOWER.

Revision /	Date	Addendum No.3
2	05/14/25	

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
BJ. HENDRIX
94813
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BJ. HENDRIX, P.E. NO. 94813 ON 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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SCHEDULES - PLUMBING

PACKAGE VOLUME

Job No. 01954-08-01
Sheet No. P0.10
ISSUE FOR BID
Drawn By: KAM
Date: 04/22/2025

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PLUMBING KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

P2	CONNECT TO SANITARY SEWER (SS)/WASTEWATER (WW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
P5	RE: DOUBLE CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
P7	RE: INTERIOR CLEANOUT DETAIL ON PLUMBING DETAIL SHEET(S).
P15	CONNECT TO STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION. PROVIDE EBAA IRON, INC. DWV FLEX- TEND DOUBLE BALL EXPANSION JOINT IN VAULT. SECURE TO GRADE BEAM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
P48	PROVIDE EBAA IRON, INC. DWV FLEX-TEND DWV DOUBLE BALL EXPANSION JOINT IN CRAWL SPACE. PROVIDE EBAA IRON INC RESTRAINED FITTINGS ON EACH SIDE OF EXPANSION JOINT AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. RIGIDLY SECURE PIPE TO CONCRETE BEAM WITH A MINIMUM OF TWO PIPE CLAMPS SECURED TO UNISTRUT UPSTREAM OF THE EXPANSION JOINT. REFERENCE STRUCTURAL DETAILS FOR PIPING AND STRUCTURAL NOTES AT EXPANSION JOINT FOR ADDITIONAL INFORMATION. PLUMBING CONTRACTOR TO CLOSELY COORDINATE CONCRETE BEAM LOCATION AND ELEVATION. INSTALL 6" OF SODIUM BENTONITE CLAY PLUG THAT EXTENDS A MINIMUM OF 6" PAST THE EDGES OF THE SOIL RETAINERS. PIPING EXTENDING THRU THE SOIL RETAINER TO BE "MUDSKIPPER TAIL" COMPRISED OF 4" SCHEDULE 40 PVC PIPING ENCASED IN 12" PVC FILLED WITH CONCRETE. CONTACT TYPER MCFARLIN AT 915.276.5416.
P49	PROVIDE EBAA IRON, INC. FLEX-TEND DOUBLE BALL EXPANSION JOINT IN CRAWL SPACE. PRIOR TO PIPING EXITING THE BUILDING. PROVIDE EBAA IRON INC RESTRAINED FITTINGS ON EACH SIDE OF EXPANSION JOINT AND INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. RIGIDLY SECURE PIPE TO CONCRETE BEAM WITH A MINIMUM OF TWO PIPE CLAMPS SECURED TO UNISTRUT UPSTREAM OF THE EXPANSION JOINT. REFERENCE STRUCTURAL DETAILS FOR PIPING AND STRUCTURAL NOTES AT EXPANSION JOINT FOR ADDITIONAL INFORMATION. PLUMBING CONTRACTOR TO CLOSELY COORDINATE CONCRETE BEAM LOCATION AND ELEVATION. INSTALL 6" OF SODIUM BENTONITE CLAY PLUG THAT EXTENDS A MINIMUM OF 6" PAST THE EDGES OF THE SOIL RETAINERS. PIPING EXTENDING THRU THE SOIL RETAINER TO BE "MUDSKIPPER TAIL" COMPRISED OF 4" SCHEDULE 40 PVC PIPING ENCASED IN 12" PVC FILLED WITH CONCRETE. CONTACT TYPER MCFARLIN AT 915.276.5416.
P50	STORM DRAIN FROM FLOOR ABOVE.
P57	STORM DRAIN DOWN IN CHASE WALL TO CRAWL SPACE BELOW.
P58	APPROXIMATE LOCATION OF EXISTING SANITARY SEWER (ESS) PIPE. REPLACE EXISTING PIPING. THIS PIPING MUST REMAIN ACTIVE DURING OCCUPIED TIMES. COORDINATE REPLACEMENT TIMING WITH SCHOOL DISTRICT. NEW PIPING TO BE SUSPENDED FROM STRUCTURE USING THE "MUDSKIPPER" SUSPENSION SYSTEM.
P59	APPROXIMATE LOCATION OF EXISTING SANITARY SEWER (SS)/WASTE WATER (WW). FIELD VERIFY EXACT LOCATION AND INVERT IN FIELD.

PLUMBING GENERAL SHEET NOTES

THESE NOTES APPLY TO ALL SHEETS

A. REFERENCES: REFERENCE STANDARD DETAILS ON PLUMBING DETAIL SHEETS. CW BUILDING ENTRY, WATER HEATER (TMV,HWRP), DOUBLE CLEANOUT, INTERIOR CLEANOUT, EXTERIOR CLEANOUT, CONDENSATE STUB, ELEVATOR SUMP, ETC…

B. FIXTURE CONNECTION: WATER AND WASTE MAINS ARE SHOWN NEAR FIXTURES IN PLANS. REFERENCE 'PIPE SIZING REQUIREMENTS' AND 'FIXTURE CONNECTION SCHEDULE' FOR FINAL CONNECTION SIZES AND REQUIREMENTS INCLUDING BUT NOT LIMITED TO; ALL COLD WATER (CW), HOT WATER (HW), WASTE WATER (WW), VENT, TAP, SIZE, VALVE REQUIREMENTS. FOR ALL INDIVIDUAL PLUMBING FIXTURES. INDIVIDUAL FIXTURES CONNECTIONS NOT SPECIFICALLY DRAWN. ALL FIXTURES ARE TO BE CONNECTED TO MAIN AND DISTRIBUTION PIPES SHOWN AS INDICATED IN NOTES AND SCHEDULES. CONTRACTOR IS TO PROVIDE FINAL CONNECTIONS TO ALL FIXTURES SHOWN ON PLUMBING AND ARCHITECTURAL DRAWINGS.

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E. MILLWORK: CONFIRM SINK DIMENSIONS WORK WITH FINAL MILLWORK SHOP DRAWINGS PRIOR TO SUBMITTAL. ANY SINKS THAT WON'T FIT, HIGHLIGHT AND PROVIDE ALTERNATE SINK OF SAME STYLE THAT WILL FIT AS SAME COST IN SUBMITTAL.

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I. VENT PIPING: OFFSET ALL VENT PIPING AS REQUIRED FROM CHASES IN MILLWORK AND OFFSET INTO FULL HEIGHT WALLS BEHIND. OFFSET VENT PIPING AROUND WINDOWS AS REQUIRED WHERE STUDOR VENTS ARE NOT USED. PROVIDE MULTIPLE VTR'S AROUND BUILDING TO MEET CODE.

J. RATED WALLS:ENSURE ALL PIPING PASSING THRU RATED WALLS ARE FIRE SEALED TO MAINTAIN WALL RATING. INSTALL PER UL DETAIL FOR SEALANT AND METHOD BEING USED.

K. ELEVATED FLOOR PENETRATION: SEAL AROUND ALL PIPING PASSING THRU FLOOR WITH FIRE SEALANT.

L. SINKS IN ISLANDS: REFERENCE ISLAND SINK DETAIL.

M. STRUCTURAL COORDINATION: COORDINATE ALL WASTEWATER FLOOR PENETRATIONS AND PIPING PENETRATIONS THRU GRADE BEAMS WITH STRUCTURAL ENGINEER. PIPING MAY BE OFF-SET SLIGHTLY TO AVOID STRUCTURAL CONFLICTS.

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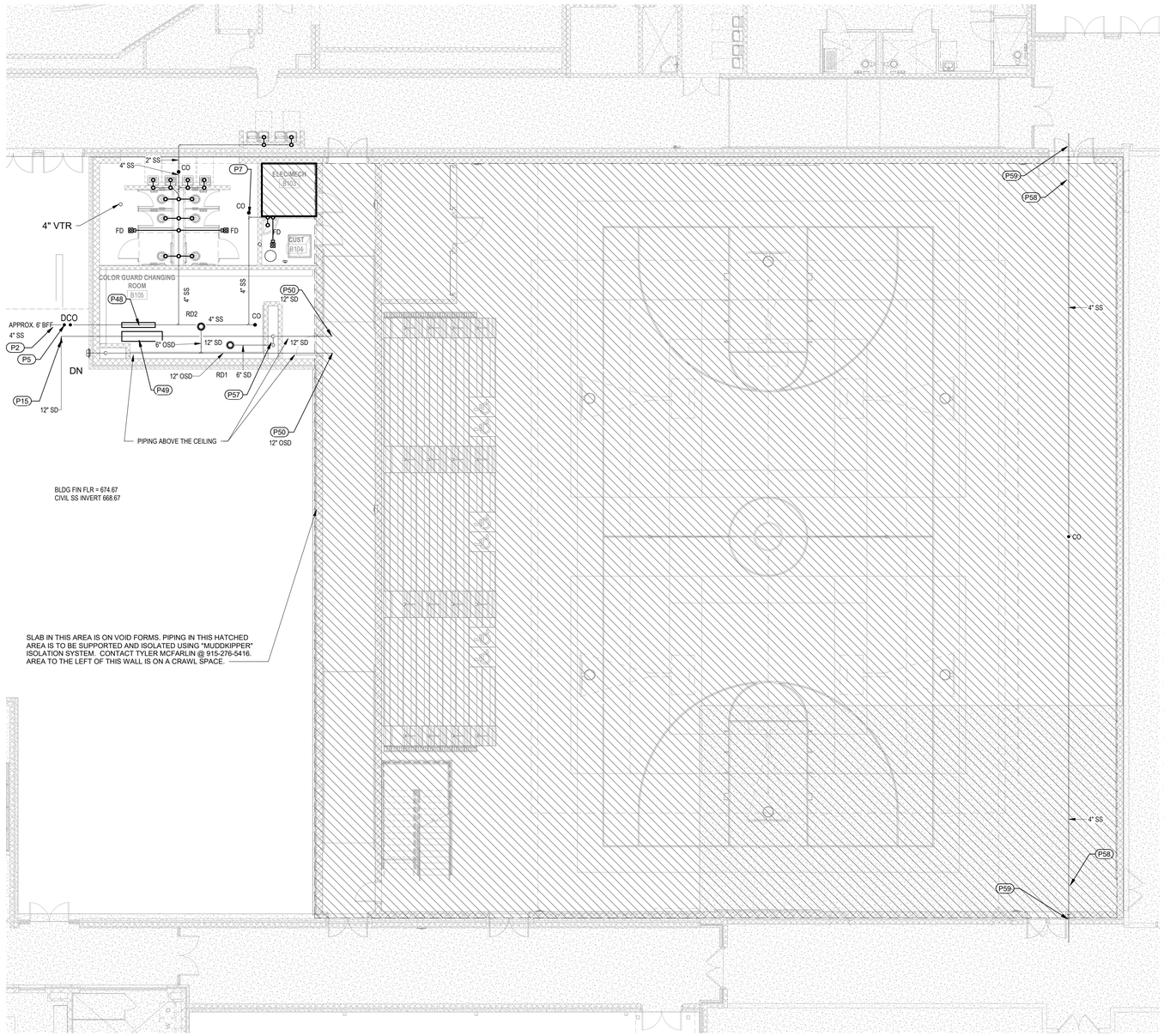
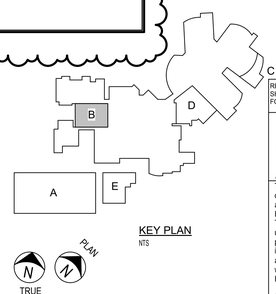


MOST OF THIS ADDITION IS TO BE ON VOID FORMS. MUDSKIPPER PIPING ISOLATION SYSTEM TO BE IMPLEMENTED FOR THIS AREA. THE RESTROOM AND COLOR GUARD AREA WILL BE ON CRAWL SPACE. FLEXIBLE EXPANSION JOINTS WILL BE PROVIDED IN THE CRAWL SPACE PRIOR TO LEAVING THE BUILDING. REFERENCE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONTACT TYPER MCFARLIN AT 915.276.5416 FOR DRAWINGS AND MATERIALS FOR MUDSKIPPER SYSTEM PRIOR TO BID.



KEY PLAN
NTS

01 FIRST FLOOR PLAN - AREA B - PLUMBING - WASTE
SCALE: 1/8" = 1'-0"

Revision /	Date	
2	05/14/25	Addendum No.3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
BRANDON R. HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRANDON R. HENDRIX, P.E. NO. 94813 ON 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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FIRST FLOOR PLAN - AREA B - PLUMBING - WASTE

PACKAGE VOLUME

Job No. 01954-08-01
Drawn By: KAM
Date: 04/22/2025
Sheet No. ISSUE FOR BID P2.01B1

5/14/2025 9:24:00 AM
Autodesk Docs://HAYS CISD - LEHMAN, JOHNSON HS ADD RENO 2025/LHS2025_MEP23.rvt

PLUMBING KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

P2	CONNECT TO SANITARY SEWER (SS)/WASTEWATER (WW) STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION.
P18	WASTEWATER (WW) TO/FROM FLOOR ABOVE.
P40	ACID WASTE (AW) FROM FLOOR ABOVE.
P45	SINGLE RISER TWO WAY CLEANOUT TO ACT AS A SAMPLING PORT.
P46	PROVIDE DOUBLE BALL FLEXIBLE EXPANSION JOINT EQUAL TO EBAA IRON INC DWV FLEX TEND IN VAULT. INSTALL PER MANUFACTURER'S AND MUDSKIPPER INSTALLATION INSTRUCTIONS AND STRUCTURAL DETAIL FOR PIPING AND CONCRETE VAULT. PIPING UPSTREAM OF EXPANSION JOINT TO BE RIGIDLY SECURED TO STRUCTURE PER MANUFACTURER'S AND MUDSKIPPER INSTALLATION INSTRUCTIONS.

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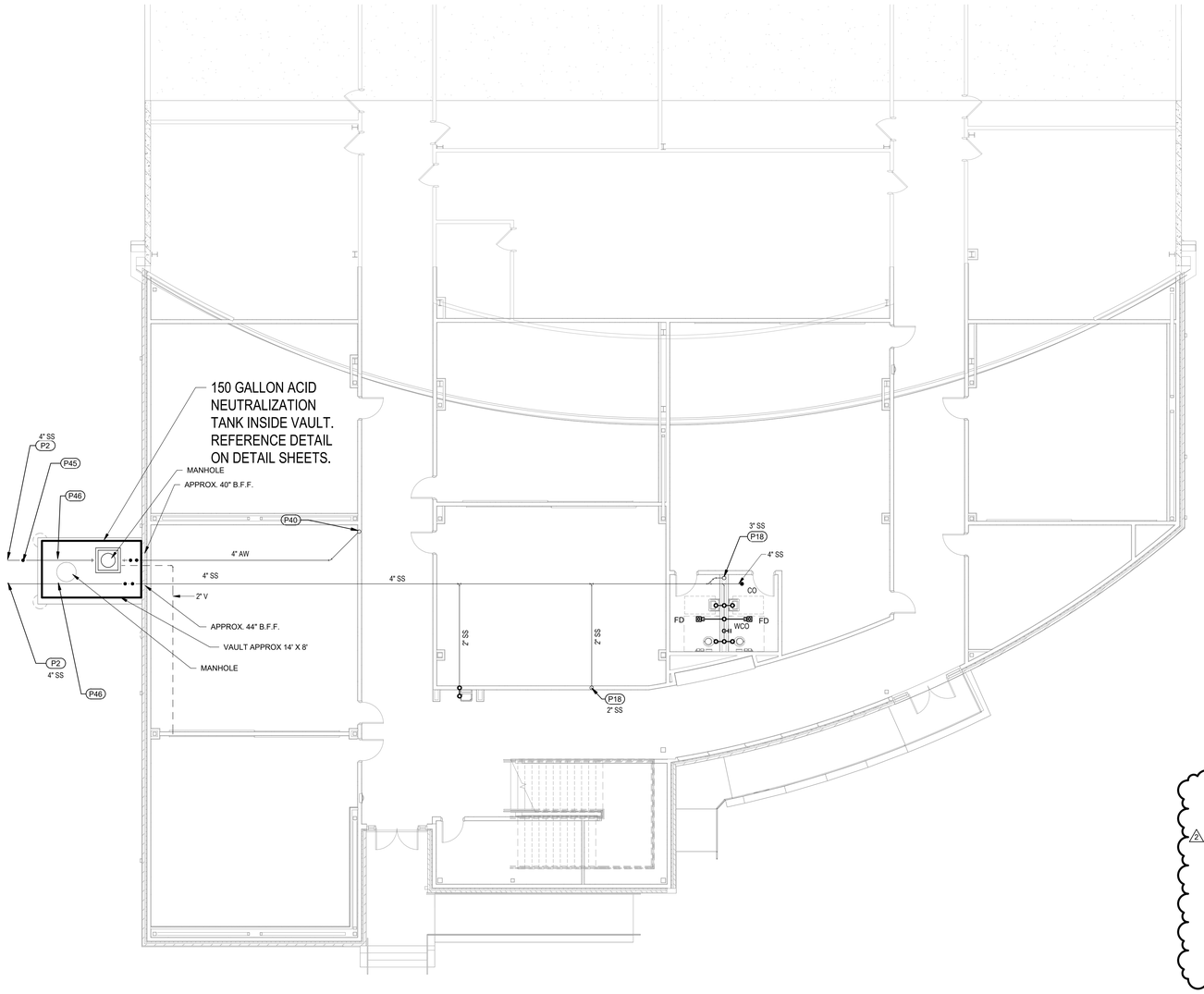
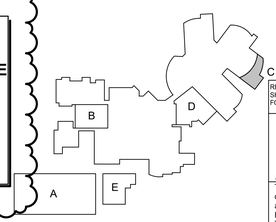


01 **FIRST FLOOR PLAN - AREA C - PLUMBING - WASTE**
SCALE: 1/8" = 1'-0"

△2 **THIS ADDITION IS TO BE ON VOID FORMS. MUDSKIPPER PIPING ISOLATION SYSTEM TO BE IMPLEMENTED FOR THIS AREA. FLEXIBLE EXPANSION JOINTS WILL BE PROVIDED IN VAULTS OUTSIDE OF BUILDING FOOTPRINT. CONTACT TYPER MCFARLIN AT 915.276.5416 FOR DRAWINGS AND MATERIALS FOR MUDSKIPPER SYSTEM PRIOR TO BID.**



KEY PLAN
NTS

Revision / 2 — Date 05/14/25 — Addendum No.3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS — P.J. HENDRIX — 94813 — LICENSED PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY P.J. HENDRIX, P.E. NO. 94813 ON 5/2/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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FIRST FLOOR PLAN - AREA C - PLUMBING - WASTE

PACKAGE — VOLUME
Job No. 01954-08-01
Drawn By: KAM
Date: 04/22/2025
Sheet No.
ISSUE FOR BID
P2.01C1

5/14/2025 9:23:34 AM
Autodesk Docs://HAYS CISD - LEHMAN, JOHNSON HS ADD RENO 2025/LHS2025_MEP23.rvt

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PLUMBING KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

P42 CONNECT NEW GREASE WASTE TO EXISTING. FIELD VERIFY EXACT SIZE, LOCATION AND INVERT.

P46 PROVIDE DOUBLE BALL FLEXIBLE EXPANSION JOINT EQUAL TO EBAA IRON INC DWV FLEX TEND IN VAULT. INSTALL PER MANUFACTURER'S AND MUDSKIPPER INSTALLATION INSTRUCTIONS AND STRUCTURAL DETAIL FOR PIPING AND CONCRETE VAULT. PIPING UPSTREAM OF EXPANSION JOINT TO BE RIGIDLY SECURED TO STRUCTURE PER MANUFACTURER'S AND MUDSKIPPER INSTALLATION INSTRUCTIONS. 2

P54 DRAIN FROM ICEMAKER TO BE ROUTED TO FLOOR SINK ON OPPOSITE SIDE OF THE WALL IN KITCHEN AREA.

P55 CONNECT TO STUB PROVIDED BY CIVIL. FIELD VERIFY EXACT LOCATION AND INVERT. PROVIDE ADAPTER AS REQUIRED TO MAKE SIZE AND/OR MATERIAL TRANSITION. PROVIDE EBAA IRON, INC. DWV FLEX- TEND DOUBLE BALL EXPANSION JOINT WHERE PIPING LEAVES THE BUILDING. SECURE TO GRADE BEAM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

P58 APPROXIMATE LOCATION OF EXISTING SANITARY SEWER (ESS) PIPE. REPLACE EXISTING PIPING. THIS PIPING MUST REMAIN ACTIVE DURING OCCUPIED TIMES. COORDINATE REPLACEMENT TIMING WITH SCHOOL DISTRICT. NEW PIPING TO BE SUSPENDED FROM STRUCTURE USING THE "MUDSKIPPER" SUSPENSION SYSTEM. 2

P60 CONNECT TO EXISTING SANITARY SEWER (SS)/WASTE WATER (WW). FIELD VERIFY EXACT LOCATION AND INVERT IN FIELD.

P63 APPROXIMATE LOCATION OF EXISTING GREASE WASTE (EGW) PIPE. REPLACE EXISTING PIPING WITH SCHEDULE 40 PVC. THIS PIPING MUST REMAIN ACTIVE DURING OCCUPIED TIMES. COORDINATE REPLACEMENT TIMING WITH SCHOOL DISTRICT. NEW PIPING TO BE SUSPENDED FROM STRUCTURE USING THE "MUDSKIPPER" SUSPENSION SYSTEM.

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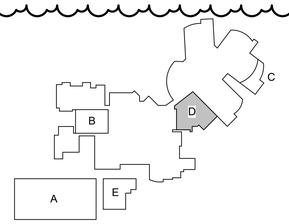

KEY PLAN
NTS

TRUE PLAN

01 FIRST FLOOR PLAN - AREA D - PLUMBING - WASTE
SCALE: 1/8" = 1'-0"

Revision /	Date	
2	05/14/25	Addendum No.3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
BRIAN J. HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO. 94813 ON 04/22/2025

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HCE job no.: 24-034

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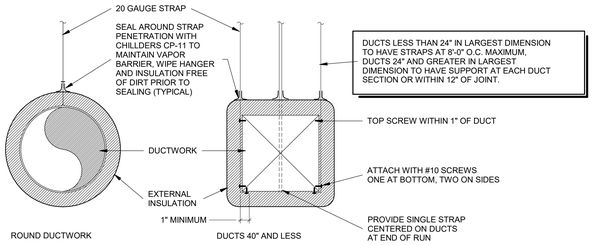
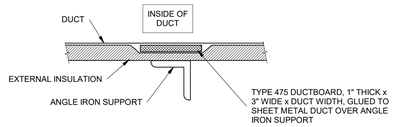
FIRST FLOOR PLAN - AREA D - PLUMBING - WASTE

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. P2.01D1
Drawn By: KAM	ISSUE FOR BID
Date: 04/22/2025	

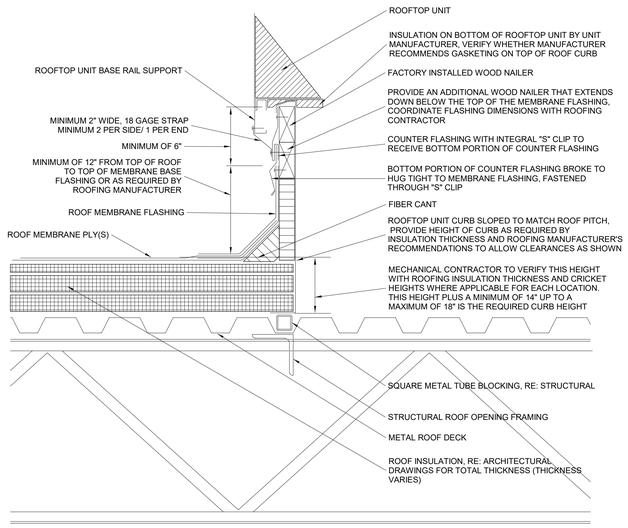
5/14/2025 9:23:09 AM
Autodesk Docs://HAYS CISD - LEHMAN, JOHNSON HS ADD RENO 20254.HS2025_MEP23.rvt





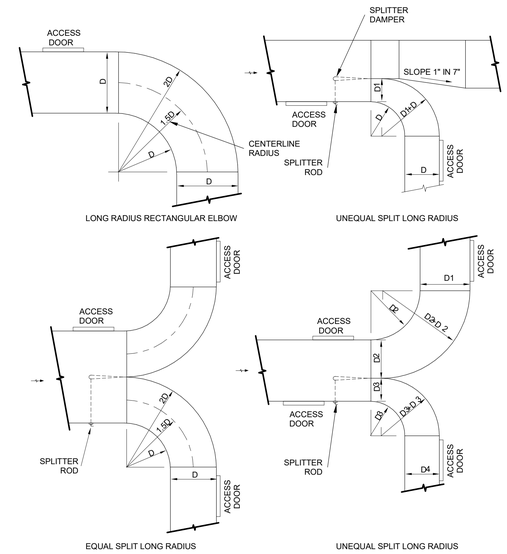
DUCT DETAILS

NO SCALE MDE08



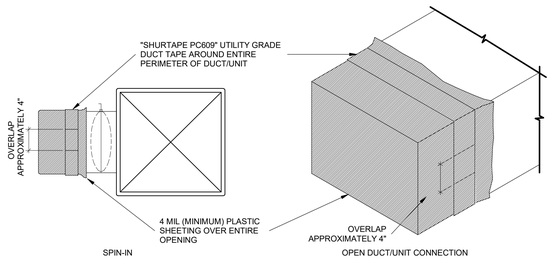
ROOFTOP UNIT CURB/FLASHING DETAIL

SCALE: NONE MDE141



SPLITTER DETAIL

NO SCALE MDE06



A. CAP OPEN ENDS OF ALL DUCTS (INCLUDING SPIN-INS) AND EQUIPMENT WITH PLASTIC TO PREVENT CONSTRUCTION DEBRIS AND DUST FROM ENTERING OPENINGS DURING CONSTRUCTION.

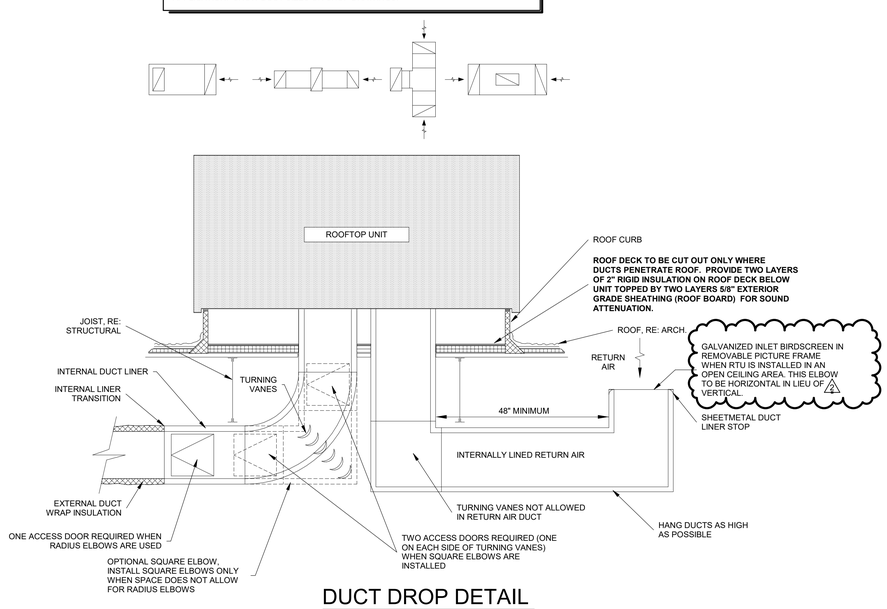
B. COVER ALL OPEN ENDS OF DUCTWORK WHILE SITTING ON GROUND (NOT INSTALLED). ALL PREFABRICATED DUCTWORK IN SHOP SHALL COME WITH ENDS PREWRAPPED WHEN DELIVERED TO THE SITE.

C. **CONTRACTOR SHALL CLEAN ALL DUCTWORK THAT IS NOT PROTECTED PROPERLY DURING CONSTRUCTION.**

DIRT BUSTER DETAIL

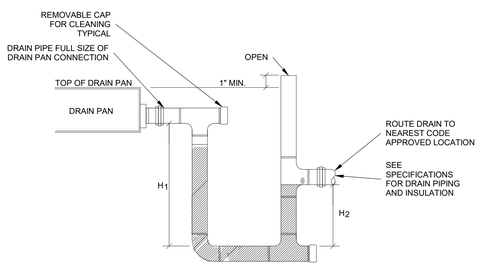
NO SCALE MDE10

TOP VIEWS OF OPTIONAL DUCT CONFIGURATIONS FOR RETURN AIR DUCTWORK. THE MAXIMUM INLET VELOCITY OF EACH OPENING TO BE 500 FEET PER MINUTE. PROVIDE THE APPROPRIATE CONFIGURATION AS REQUIRED BY EACH INDIVIDUAL APPLICATION. SHOW DUCT SIZES ON SHOP DRAWINGS.



DUCT DROP DETAIL

SCALE: NONE MDE131



CALCULATE TRAP DIMENSIONS USING FORMULAS OR DIMENSIONS LISTED BELOW. USE MANUFACTURER'S RECOMMENDATION IF MORE STRINGENT.

FORMULAS FOR DRAW-THRU UNITS
H_1= NEGATIVE STATIC PRESSURE x 1.5 +3.5"
H_2= NEGATIVE STATIC PRESSURE x 0.75 + 2.5"

MINIMUM DIMENSIONS FOR RESIDENTIAL AIRHANDLERS AND FURNACES UP TO 5 TONS
H_1= 5"
H_2= 3.5"

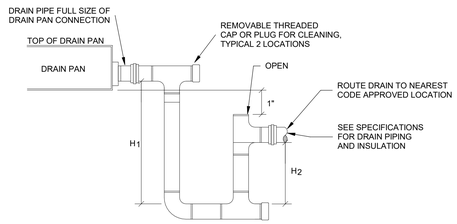
FORMULAS FOR BLOW-THRU UNITS
H_1= H_2+ 0.5"
H_2= MAXIMUM POSITIVE STATIC PRESSURE x 1.5

MINIMUM DIMENSIONS FOR RESIDENTIAL AIR HANDLERS AND FURNACES UP TO 5 TONS
H_1= 3"
H_2= 1.5"

INSTALL 90 DEGREE ELBOW IN OVERFLOW DRAIN CONNECTION OF DRAIN PAN, TURN DOWN INTO AUXILIARY PAN WITH FLOAT SWITCH AND PIPED OFF IF SHOWN OR CALLED OUT ON PLANS

TRAP DETAIL FOR AHU WITH OVERFLOW DRAIN CONNECTION

NO SCALE MDE117



USE DIMENSIONS LISTED BELOW UNLESS MANUFACTURER'S RECOMMENDATIONS ARE MORE STRINGENT

RTU'S AND MULTIZONE RTU'S

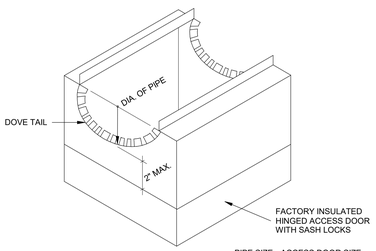
H_1= 9"
H_2= 6"

MAU'S

H_1= 12"
H_2= 9"

DEEP SEAL TRAP DETAIL FOR RTU'S AND MAU'S

NO SCALE MDE118



PIPE SIZE	ACCESS DOOR SIZE
6" ∅	- 10 x 10
8" ∅	- 10 x 10
10" ∅	- 10 x 10
12" ∅	- 12 x 12
14" ∅	- 12 x 12

SADDLE TAP FOR ACCESS DOOR IN ROUND PIPE

NO SCALE MDE67

Addendum No.3
Date 05/14/25
Revision / 2

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

Project:

STATE OF TEXAS
BRIAN D. HENDRIX
94813
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRIAN D. HENDRIX, P.E. NO. 94813 ON 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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DETAILS - MECHANICAL

PACKAGE VOLUME

Job No. 01954-08-01
Drawn By: RD, KAM
Date: 04/22/2025

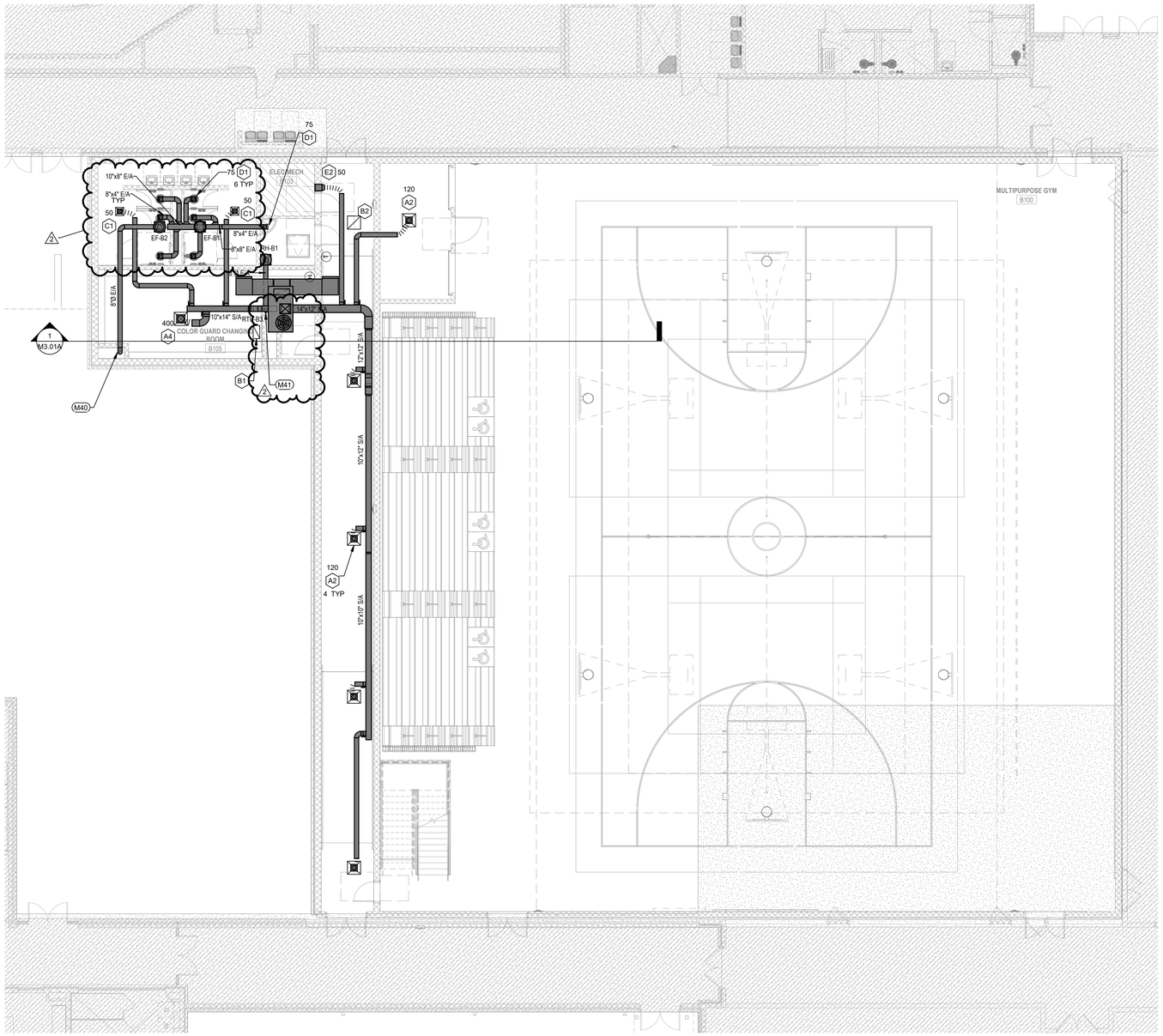
Sheet No.
ISSUE FOR BID
M1.11

MECHANICAL KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

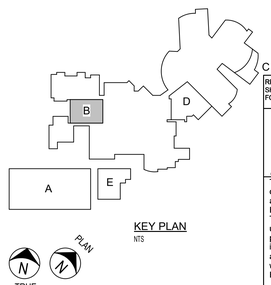
M40 EXHAUST DUCT DOWN IN CHASE TO CRAWL SPACE FOR VENTILATION.

2 M41 DUCT FROM INTAKE HOOD DOWN IN CHASE TO CRAWL SPACE FOR VENTILATION.



01 FIRST FLOOR PLAN - AREA B - MECHANICAL

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



Revision / 2
Date 05/14/25
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Project:
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2025 ADDITIONS + RENOVATIONS
FOR
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FIRST FLOOR PLAN - AREA B - MECHANICAL

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID M2.01B1
Drawn By: KAM	
Date: 04/22/2025	

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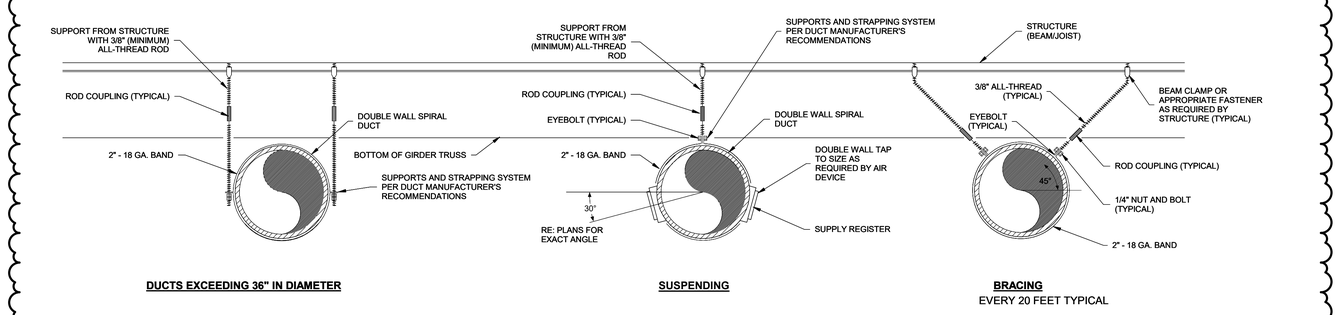


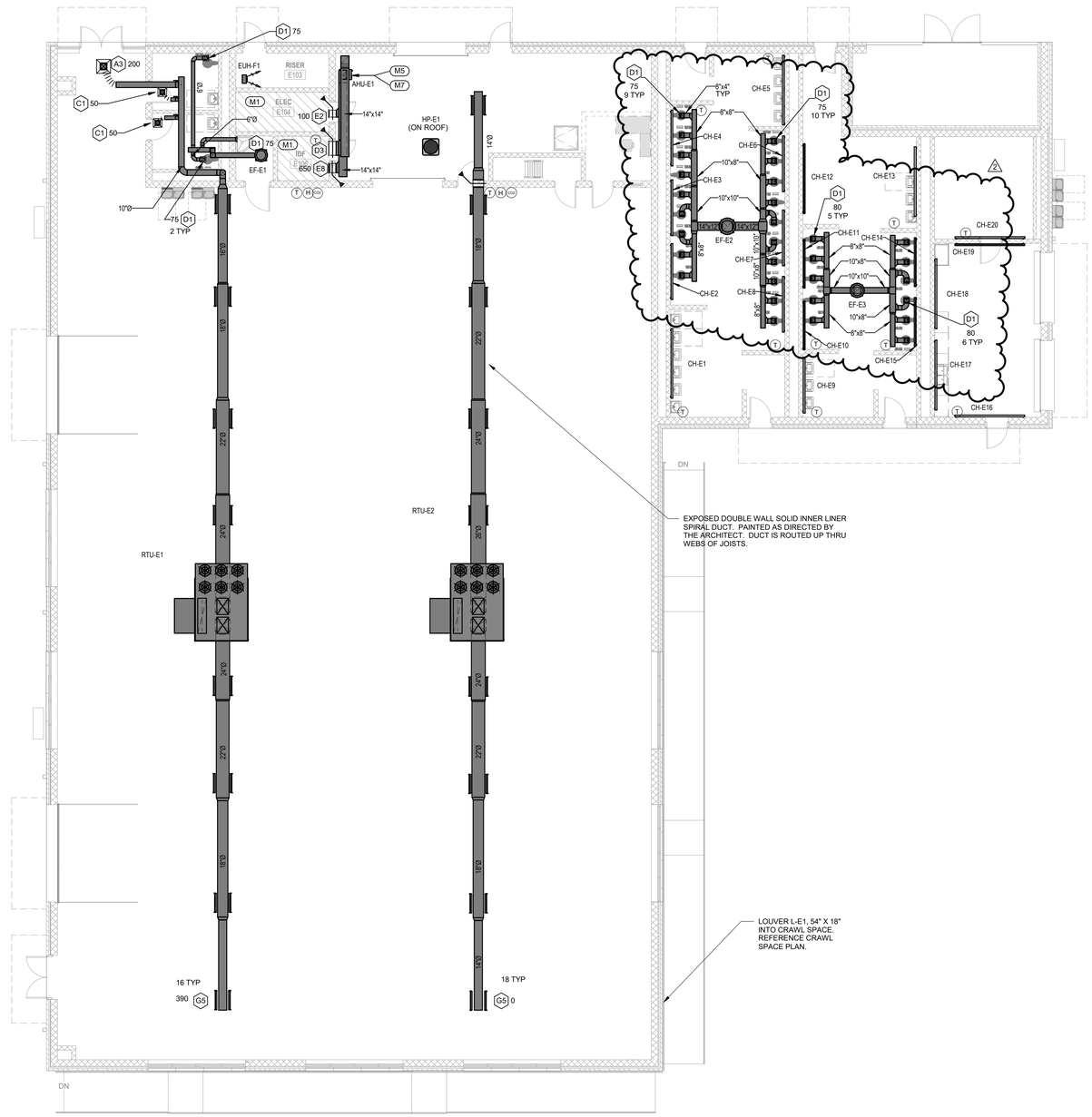
DUCTS EXCEEDING 36" IN DIAMETER

SUSPENDING

BRACING
EVERY 20 FEET TYPICAL

SPIRAL DUCT DETAILS 2

NO SCALE MDE72



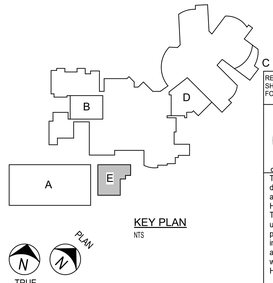
01 FIRST FLOOR PLAN - AREA E - MECHANICAL

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

MECHANICAL KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

M1	DO NOT ROUTE ANY DUCTWORK ABOVE THIS AREA.
M5	DRYER DUCT UP TO ROOF TO DRYER VENT ON ROOF. REFERENCE DETAIL ON DETAIL SHEET(S).
M7	KITCHEN HOOD SUPPLY DUCT TO CONNECT TO HOOD CONNECTION. PROVIDE TRANSITION AS REQUIRED TO MAKE CONNECTION.



KEY PLAN
NTS

Revision / 2 — Date 05/14/25 — Addendum No.3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
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HAYS CISD
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STATE OF TEXAS — BRIAN R. HENDRIX 94813 — LICENSED PROFESSIONAL ENGINEER

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HCE job no.: 24-034

FIRST FLOOR PLAN - AREA E - MECHANICAL

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. M2.01E1
Drawn By: RD, KAM	ISSUE FOR BID
Date: 04/22/2025	

MISCELLANEOUS EQUIPMENT SCHEDULES

GENERAL NOTES:

A. ELECTRICIAN TO PROVIDE 120V POWER TO ALL EQUIPMENT FROM NEAREST PANEL HAVING CAPACITY, UNLESS OTHERWISE NOTED.

B. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL PARTS AND LABOR TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. POWER MAY BE SHOWN IN GENERAL LOCATION. IT IS EXPECTED THAT THE ELETRICAL CONTRACTOR COORDINATE FINAL LOCATION FOR ROUGH-IN AND CONNECTION REQUIREMENTS WITH EXACT EQUIPMENT BEING INSTALLED. THESE ITEMS INCLUDE, BUT NOT LIMITED TO, BOOK SECURITY, EXHAUST FANS, KILNS, HAND DRYERS, SENSOR OPERATED PLUMBING DEVICES, ELECTRIC OVERHEAD DOORS, FIRE SMOKE DAMPERS, AIR PURIFICATION UNITS, ETC.

DAIKIN VRF AC SYSTEMS
REFERENCE FLOORPLANS. PROVIDE SNAP SWITCH AT ALL BRANCH SELECTORS AND FCU FOR DISCONNECTING MEANS, CIRCUIT AS SHOWN. PROVIDE DISCONNECTS AS SHOWN FOR ALL AHU'S AND HRU'S. REFER TO PIPING AND WIRING DIAGRAMS ON THE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.

DAIKIN MINI-SPLIT AC SYSTEMS
POWER IS CONNECTED TO OUTDOOR UNIT, INDOOR UNIT IS FED FROM OUTDOOR UNIT AND POWER AND COMMUNICATION WIRES MUST BE RUN IN ITS OWN DEDICATED CONDUIT. REFERENCE PLANS AND MANUFACTURER'S INSTALLATION MANUAL.

LIGHTING CONTROL
REFERENCE LIGHTING CONTROL DETAILS AND NOTES.
1. EXTERIOR LIGHTS BY BAS.
2. INTERIOR LIGHTS BY 'NLIGHT'.

POWER FOR SPECIAL SYSTEMS POWER SUPPLIES
1. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO ALL SECURITY, FIRE ALARM, ACCESS CONTROL, ETC. POWER SUPPLIES. COORDINATE EXACT LOCATION WITH SPECIAL SYSTEMS CONTRACTOR AND FLOOR PLANS. PROVIDE DEDICATED LOW VOLTAGE CIRCUIT TO NEAREST PANEL HAVING CAPACITY U.O.N.
2. LABEL ALL SPECIAL SYSTEMS POWER SUPPLIES WITH PANEL AND CIRCUIT NUMBERS.

POWER ON FURNITURE ISLANDS
PROVIDE 1"C MINIMUM IN SLAB OR UNDER FLOOR TO FEED PLUGS DEVICES SHOWN ON CABINETS OR MILLWORK NOT ATTACHED TO WALLS.

RECEPTACLES AT MILLWORK
COORDINATE FINAL RECEPTACLE LOCATIONS AND ELEVATIONS WITH MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. REVIEW ARCHITECTURAL INTERIOS ELEVATIONS FOR FINAL LAYOUTS OF EQUIPMENT TO BE POWERED. REFERNCE DEVICE MOUNTING HEIGHT DETAIL FOR MOUNTING HEIGHTS.

ELECTRIC WATER COOLER (EWC) POWER
RECEPTACLE FOR POWER TO BE LOCATED BEHIND EWC AND HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION WITH ACTUAL EQUIPMENT.

KITCHEN EXHAUST AND SUPPLY FANS
PROVIDE SINGLE POINT CONNECTION TO CONTROL PANEL. PROVIDE WIRE CONDUIT FOR CONNECTION FROM CONTROL PANEL (PANEL MAY BE LOCATED IN KITCHEN OR ON ROOF) TO ALL KEF'S AND TO KSF'S ON ROOF. REFERENCE EXHAUST FAN SCHEDULE ON MECHANICAL SHEETS FOR ADDITIONAL INFORMATION. ELECTRICAL CONTRACTOR TO PROVIDE ALL CONTROL WIRING AND MAKE ALL TERMINATION'S AND FEED THROUGH CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. CONTROL VOLTAGE TO BE OBTAINED FROM HOOD LIGHT CIRCUIT. TYPE OF CONNECTION VARIES BY MANUFACTURER. COORDINATE ALL REQUIREMENTS WITH ACTUAL FANS BEING SUPPLIED.

MOTORIZED CURTAIN / BLINDS / SHADES
CIRCUIT IS SHOWN IN GENERAL AREA AND DOES NOT REPRESENT QUANTITY OF LINE VOLTAGE CONNECTIONS. COORDINATE WITH ARCHITECT SPECIFICATIONS, SCHEDULES AND EXACT CURTAIN BEING PROVIDED FOR ALL ROUGH-IN REQUIREMENTS. CONNECT POWER TO MASTER CONTROL UNIT AND EACH CURTAIN / BLINDS / SHADES PER MANUFACTURE RECOMMENDATIONS. THIS INFO FOR BIDDING PURPOSES ONLY.PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE WORKABLE SYSTEM. PROVIDE ROUGH-IN AND CONNECTING CONDUIT FOR CONTROL OF BLINDS. WHEN NO LOCATION FOR CONTROL CAN BE COORDINATED, LOCATE NEXT TO ROOM LIGHT SWITCH AND LABEL. COORDINATE FINAL ROUGH-IN LOCATION AND FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

MOTORIZED DAMPERS
PROVIDE 120V POWER TO ALL MOTORIZED DAMPERS SHOWN ON MECHANICAL DRAWINGS. COORDINATE DAMPER CONTROL REQUIREMENTS WITH MECHANICAL DRAWINGS.

EXHAUST FAN
ELECTRICAL CONTRACTOR SHALL WIRE ALL EXHAUST FANS TO BE CONTROLLED PER "EXHAUST FAN SCHEDULE" ON MECHANICAL SHEET. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS, CONTACTORS, SPRING WOUND TIMERS, ETC., AS REQUIRED PER SCHEDULE TO OPERATE AND CONTROL EXHAUST FAN. IF NO CONTROL IS SPECIFIED, EXHAUST FAN SHALL ENERGIZE WHEN LIGHTS IN ANY ROOM IT SERVES ARE POWERED ON. REFERENCE DETAIL ON ELECTRICAL SHEET FOR ADDITIONAL INFORMATION.

PROJECTION SCREEN
PROVIDE POWER FOR SCREEN. PROVIDE ROUGH-IN AND CONNECTING CONDUIT FOR CONTROL OF SCREEN. COORDINATE EXACT ROUGH-IN LOCATION AND FINAL REQUIREMENTS WITH OWNER/ARCHITECT.

DISHWASHER
PROVIDE A SWITCH ABOVE COUNTER FOR DISCONNECTING MEANS TO DISHWASHER. FIELD COORDINATE LOCATION. RECEPTACLE FOR POWER TO DISHWASHER TO BE BE LCOATED IN ACCESSIBLE CABINET BELOW SINK AND BE FED BY GFCI BREAKER AT PANEL.

FIRE DOOR
POWER FOR FIRE DOOR. COORDINATE FINAL LOCATION AND POWER REQUIREMENTS WITH ACTUAL DOOR BEING SUPPLIED. INSTALL KEYED SWITCHES PROVIDED BY DOOR MANUFACTURER ON BOTH SIDES.

MOTORIZED OVERHEAD DOORS
PROVIDE POWER FOR DOOR AS SHOWN ON PLANS. PROVIDE SNAP SWITCH AS DISCONNECTING MEANS ADJACENT TO DOOR ABOVE CEILING. PROVIDE ABOVE CEILING CONTROLS J-BOX WITH CONDUIT TO DOOR OPERATOR FOR CONTROLS CABLE ROUTING. PROVIDE J-BOX AT MID-OPENING HEIGHT WITH CONDUIT TO ABOVE CEILING CONTROLS J-BOX ON ONE SIDE OF DOOR FOR BOTTOM BAR SENSING EDGE CONNECTIONS. PROVIDE J-BOX AT 6" AFF ON EACH SIDE OF DOOR WITH CONDUIT TO ABOVE CEILING CONTROLS J-BOX FOR PHOTO EYES ON EACH SIDE OF DOOR. PROVIDE J-BOX FOR DOOR CONTROL STATION AT LOCATION DIRECTED BY ARCHITECT OR OWNER WITH CONDUIT TO ABOVE CEILING CONTROLS J-BOX. PROVIDE CONTROL WIRES AS SPECIFIED BY THE MANUFACTURER AND MAKE ALL CONNECTIONS REQUIRED IN INSTALLATION MANUAL. DO NOT MAKE ANY CONNECTIONS THAT ARE INDICATED TO BE COMPLETED BY THE DOOR CONTRACTOR IN THE INSTALLATION MANUAL.

SCIENCE ROOM UTILITY CONTROLLER

MANUFACTURERS:
ISIMET UTILITY CONTROLLER AND E-SERIES ENCLOSURE - (210) 654-8015 or
AMERICAN GAS SAFETY (AGS) - (512-845-3528)
LAB SAFETY SYSTEMS UTILITY CONTROLLERS - (512-845-3528) or
LAB AUTOMATED CONTROL SYSTEMS BY E&I (713-391-4293)

UTILITY CONTROLLER AND SOLENOID ENCLOSURE TO BE PROVIDED BY THE SAME MANUFACTURER. GENERAL CONTRACTOR TO PROVIDE COMPLETE SUBMITTAL FOR ENTIRE SYSTEM WITH PLUMBING AND ELECTRICAL COMPONENTS. A PIECE-MEAL SUBMITTAL WILL NOT BE ACCEPTED.

1. ELECTRICAL CONTRACTOR: PROVIDE A UTILITY CONTROLLER (1000 SERIES 12X9) AND E-SERIES (E3112-EX) CONTACTOR ENCLOSURE FOR EMERGENCY SHUT-OFF OF POWER (RECEPTACLES), COLD WATER, TEMPERED WATER AND GAS AS REQUIRED (VERIFY EXACT UTILITIES REQUIRED IN EACH INDIVIDUAL ROOM WITH PLUMBING CONTRACTOR). PROVIDE INDIVIDUAL CONTROL SWITCH FOR CW/HW/GAS/RECEPTACLES. EXHAUST FANS FOR HOODS TO BE CONTROLLED FROM UTILITY CONTROLLER WITH KEY SWITCH TO ENABLE FAN SWITCH ON HOOD. CONTACTOR ENCLOSURES TO BE MOUNTED ABOVE CEILING. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL UTILITY CONTROLLER AND E-SERIES CONTACTOR ENCLOSURE AND PROVIDE ALL 120 VOLT WIRING AND 24V WIRING BETWEEN CONTROLLER, CONTACTOR ENCLOSURE AND EQUIPMENT. PROVIDE CONTACTOR ENCLOSURES FOR (12) TWELVE CIRCUITS. ELECTRICAL CONTRACTOR TO ALSO PROVIDE 24 VOLT CONTROL WIRING BETWEEN UTILITY CONTROLLER AND S-SERIES SOLENOID ENCLOSURE. INNER CONNECT WITH FACP TO SHUT DOWN SERVICES. COORDINATE WITH FIRE ALARM CONTRACTOR.
2. PLUMBING CONTRACTOR: PROVIDE PRE-ASSEMBLED S-SERIES (S-3113-24VAC-X-K-F-R-A-U) SOLENOID ENCLOSURE WITH ALL CONTACTS RESET SOLENOID AND INTERFACE RELAYS FOR EACH SCIENCE ROOM FOR EMERGENCY SHUT-OFF OF COLD WATER, TEMPERED WATER AND GAS. EACH SOLENOID TO BE ASSEMBLED WITH THREADED BALL VALVE, UNIONS, "Y" STRAINERS, SHOCK ARRESTOR, AND CAPPED ENDS FOR FIELD INSTALLATION. ENCLOSURE SHALL BE NEMA 1, SURFACE MOUNT ABOVE CEILING. FIELD VERIFY EXACT MOUNTING ARRANGEMENT. VERIFY EXACT UTILITIES REQUIRED IN EACH INDIVIDUAL ROOM.
3. ELECTRICAL AND PLUMBING CONTRACTOR TO COORDINATE ALL REQUIREMENTS TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
4. PROVIDE FACTORY START-UP WITH PLUMBING AND ELECTRICAL CONTRACTOR PRESENT AND SIGNED START-UP CERTIFICATE.
5. WHEN EMERGENCY BUTTON IS DEPRESSED, POWER IS SHUT OFF TO ALL ANCILLARY DEVICES.
6. ROOM EXHAUST CONTROLLED SEPARATELY BY TIMER SWITCH ON WALL PROVIDED BY ELECTRICAL CONTRACTOR.
7. COORDINATE WITH BUILDING B.M.S. SYSTEM AS REQUIRED FOR DAILY SHUT-DOWN SIGNAL.

ESC-19

BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

NOTE:
A. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT. NO SHARED NEUTRALS ALLOWED.

C - CONDUIT G - GROUND L - LINE OR PHASE N - NEUTRAL

MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM
1	2#12, 1/2"C.	LN	32	3#4, 1" C.	LLL	63	4#1/0, 1#6G., 2" C.	LLLNG
2	2#12, 1#12G., 1/2" C.	LNG	33	3#4, 1#8G., 1" C.	LLNG	64	2#2/0, 1 1/2" C.	LN
3	2#12, 1#12G., 1/2" C.	LLG	34	3#4, 1#8G., 1" C.	LLLG	65	2#2/0, 1#6G., 1 1/2"C.	LNG
4	3#12, 1/2" C.	LLL	35	4#4, 1#8G., 1 1/4" C.	LLLNG	66	2#2/0, 1#6G., 1 1/2" C.	LLG
5	3#12, 1#12G., 1/2" C.	LLNG	36	2#3, 1" C.	LN	67	3#2/0, 1 1/2" C.	LLL
6	3#12, 1#12G., 1/2" C.	LLLG	37	2#3, 1#8G., 1"C.	LNG	68	3#2/0, 1#6G., 2" C.	LLNG
7	4#12, 1#12G., 1/2" C.	LLLNG	38	2#3, 1#8G., 1" C.	LLG	69	3#2/0, 1#6G., 2" C.	LLLG
8	2#10, 1/2"C.	LN	39	3#3, 1" C.	LLL	70	4#2/0, 1#6G., 2" C.	LLLNG
9	2#10, 1#10G., 1/2" C.	LNG	40	3#3, 1#8G., 1 1/4" C.	LLNG	71	2#3/0, 1 1/2" C.	LN
10	2#10, 1#10G., 1/2" C.	LLG	41	3#3, 1#8G., 1 1/4" C.	LLLG	72	2#3/0, 1#4G., 2" C.	LNG
11	3#10, 1/2" C.	LLL	42	4#3, 1#8G., 1 1/4" C.	LLLNG	73	2#3/0, 1#4G., 2" C.	LLG
12	3#10, 1#10G., 1/2" C.	LLNG	43	2#2, 1"C.	LN	74	3#3/0, 2" C.	LLL
13	3#10, 1#10G., 1/2" C.	LLLG	44	2#2, 1#6G., 1" C.	LNG	75	3#3/0, 1#4G., 2" C.	LLNG
14	4#10, 1#10G., 1/2" C.	LLLNG	45	2#2, 1#6G., 1" C.	LLG	76	3#3/0, 1#4G., 2" C.	LLLG
15	2#8, 1/2" C.	LN	46	3#2, 1 1/4" C.	LLL	77	4#3/0, 1#4G., 2 1/2" C.	LLLNG
16	2#8, 1#10G., 3/4" C.	LNG	47	3#2, 1#6G., 1 1/4" C.	LLNG	78	2#4/0, 2" C.	LN
17	2#8, 1#10G., 3/4" C.	LLG	48	3#2, 1#6G., 1 1/4" C.	LLLG	79	2#4/0, 1#4G., 2" C.	LNG
18	3#8, 3/4" C.	LLL	49	4#2, 1#6G., 1 1/4" C.	LLLNG	80	2#4/0, 1#4G., 2" C.	LLG
19	3#8, 1#10G., 3/4" C.	LLNG	50	2#1, 1 1/4" C.	LN	81	3#4/0, 2" C.	LLL
20	3#8, 1#10G., 3/4" C.	LLLG	51	2#1, 1#6G., 1 1/4" C.	LNG	82	3#4/0, 1#4G., 2 1/2" C.	LLNG
21	4#8, 1#10G., 1" C.	LLLNG	52	2#1, 1#6G., 1 1/4" C.	LLG	83	3#4/0, 1#4G., 2 1/2" C.	LLLG
22	2#6, 3/4" C.	LN	53	3#1, 1 1/2" C.	LLL	84	4#4/0, 1#4G., 2 1/2" C.	LLLNG
23	2#6, 1#10G., 3/4" C.	LNG	54	3#1, 1#6G., 1 1/2" C.	LLNG	85	2#250, 3" C.	LN
24	2#6, 1#10G., 3/4" C.	LLG	55	3#1, 1#6G., 1 1/2" C.	LLLG	86	2#250, 1#4G., 3" C.	LNG
25	3#6, 3/4"C.	LLL	56	4#1, 1#6G., 1 1/2" C.	LLLNG	87	2#250, 1#4G., 3" C.	LLG
26	3#6, 1#10G., 3/4" C.	LLNG	57	2#1/0, 1 1/4" C.	LN	88	3#250, 3" C.	LLL
27	3#6, 1#10G., 3/4" C.	LLLG	58	2#1/0, 1#6G., 1 1/2" C.	LNG	89	3#250, 1#4G., 3" C.	LLNG
28	4#6, 1#10G., 1" C.	LLLNG	59	2#1/0, 1#6G., 1 1/2"C.	LLG	90	3#250, 1#4G, 3" C.	LLLG
29	2#4, 3/4" C.	LN	60	3#1/0, 1 1/2" C.	LLL	91	4#250, 1#4G., 3" C.	LLLNG
30	2#4, 1#8G., 1" C.	LNG	61	3#1/0, 1#6G., 2" C.	LLNG			
31	2#4, 1#8G., 1"C.	LLG	62	3#1/0, 1#6G., 2" C.	LLLG			

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ELECTRICAL ABBREVIATION SCHEDULE

A	AMPERES	MECH	MECHANICAL
A/C	AIR CONDITIONING	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MISC	MISCELLANEOUS
AL	ALUMINUM	MLO	MAIN LUG ONLY
AUTO	AUTOMATIC	MSB	MAIN SWITCHBOARD
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
BFF	BELOW FINISHED FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BLDG	BUILDING	NF	NON-FUSED
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CKT	CIRCUIT	OC	ON CENTER(S)
COL	COLUMN	OE	OVERHEAD ELECTRIC
CONC	CONCRETE	OT	OVERHEAD TELEPHONE
CONST	CONSTRUCTION	PC	PLUMBING CONTRACTOR
CONTR	CONTRACTOR	PH	PHASE
CTV	CABLE TELEVISION	PNL	PANEL
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	RE:	REFERENCE/REFER TO
EF	EXHAUST FAN	RECPT	RECEPTACLE
DN	DOWN	RGS	RIGID GALVANIZED STEEL CONDUIT
ELEC	ELECTRIC/ELECTRICAL	RM	ROOM
EMT	ELECTRICAL METALLIC TUBING	SCH	SCHEDULE
EQUIP	EQUIPMENT	SPD	SURGE PROTECTIVE DEVICE
EX	EXISTING	SPEC	SPECIFICATIONS
FA	FIRE ALARM	TEL	TELEPHONE
FF	FINISHED FLOOR	TTB	TELEPHONE TERMINAL BOARD
FLR	FLOOR/FLOORING	TYP	TYPICAL
G	GROUND	UC	UNDERGROUND CONDUIT
GC	GENERAL CONTRACTOR	UE	UNDERGROUND ELECTRIC
GFI	GROUND FAULT INTERRUPT	UL	UNDERWRITER'S LABORATORIES
HD	HEAVY DUTY	UON	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	UT	UNDERGROUND TELEPHONE
IMC	INTERMEDIATE METAL CONDUIT	V	VOLTS/VOLTAGE
KVA	KILOVOLT-AMPERES	VA	VOLT-AMPERES
KW	KILOWATTS	W	WATTS
LGT	LIGHT/LIGHTING	W/	WITH
MAX	MAXIMUM	W/O	WITHOUT
MC	MECHANICAL CONTRACTOR	WP	WEATHER PROOF
MCB	MAIN CIRCUIT BREAKER	XFMR	TRANSFORMER
MDP	MAIN DISTRIBUTION PANEL		

ESC-08

SPECIAL SYSTEM SYMBOL SCHEDULE

NOTE:
A. REFERENCE OWNER SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B. THIS IS FOR GENERAL LOCATION ONLY. ALL DEVICES AND CABLING PER OWNER SPECIFICATIONS.
C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.

SYMBOL	DESCRIPTION	REMARKS
FACP	FIRE ALARM CONTROL PANEL	
FAAP	FIRE ALARM ANNUNCIATOR PANEL	
RVEP	REMOTE VOICE EVACUATION PANEL	
S WP	SPEAKER, WALL MOUNTED WEATHER RESISTANT, 120" AFF U.O.N.	
TV	TELEVISION POWER, 72" AFF U.O.N. OR SPECIFIED BY TECHNOLOGY CONSULTANT/OWNER	
UC	UTILITY CONTROLLER (REFERENCE UTILITY CONTROLLER BLOCK NOTE)	
	CLOCK, SINGLE FACED WALL MOUNTED, 96"± AFF UON	
	CLOCK, DOUBLE FACED WALL MOUNTED, 96"± AFF UON	
CDU	CENTRAL DISPLAY UNIT	
WP	WEATHER PROOF EXTERIOR FIRE ALARM HORN	
	SECURITY KEY PAD, 48" AFF UON	3/4"C TO ABOVE CEILING
	BADGE READER FOR SECURITY SYSTEM, 48" AFF UON	3/4"C TO ABOVE CEILING
	LIGHTING RELAY ZONE OVERIDE CONTROL BUTTON	3/4"C TO ABOVE CEILING
M	MICROPHONE JACK	3/4"C TO ABOVE CEILING
	ROUGH-IN FOR CAMERA (WEATHERPROOF BOX FLUSH WITH EXTERIOR WALL)	1"C TO ABOVE CEILING
	CEILING MOUNTED CAMERA LOCATION (DATA DROP, CAMERA BY OTHERS)	
	INTERCOM PROGRAM PHONE LOCATION	3/4"C TO ABOVE CEILING
	MAG DOOR HOLD OPEN. POWERED BY SPECIAL SYSTEMS	
LD	LOCK DOWN DEVICE	3/4"C TO ABOVE CEILING
D	120V POWER FOR DOOR SECURITY POWER SUPPLY (COORDINATE WITH DOOR MFR)	
HC	120V POWER FOR HANDICAP DOOR POWER SUPPLY (REF MISC EQUIPMENT SCHEDULE)	
B	DOOR BUZZER, CONFIRM LOCATION WITH OWNER.	3/4"C TO ABOVE CEILING
V	INTERCOM VOLUME CONTROL	3/4"C TO ABOVE CEILING
OD	OVERHEAD DOOR POWER	
OC	OVERHEAD DOOR CONTROL LOCATION	
S	INTERCOM SPEAKER	
HD	HAND DRYER POWER (PROVIDE SNAP SWITCH DISCONNECT ABOVE CEILING)	SPECIFIED BY ARCHITECT
DW	DISHWASHER POWER	
CF	CIRCULATING FAN POWER	
	WALL MOUNTED MOTION SENSOR	
F	FIRE SPRINKLER POWER	
BL	MOTORIZED BLINDS	

DEVICE SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
B. ALL DEVICE PART NUMBERS ARE HUBBELL, UNLESS NOTED OTHERWISE.
C. ALL DEVICE HEIGHTS ARE REFERENCED TO CENTER OF DEVICE.

SYMBOL	DESCRIPTION	PART NUMBER
	SINGLE RECEPTACLE 20A/120V 18" AFF UON	HBL5361W
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON-TAMPER RESISTANT, UON	CR20WHITR
U	DUPLEX RECEPTACLE WITH DUAL USB 20A/120V 18" AFF UON	USB20ACPDW
	DUPLEX RECEPTACLE 20A/120V 18" AFF UON WITH GROUND FAULT INTERRUPTER	GFTRST20W
	SWITCHED DUPLEX RECEPTACLE 20A/120V 18" AFF UON - TOP CONTROLLED	BR20C1WHITR
	FOURPLEX RECEPTACLE 20A/120V 18" AFF UON	(2) CR20WHITR
U	FOURPLEX RECEPTACLE 20A/120V, (1) WITH DUAL USB 18" AFF UON	(1) CR20WHITR,(1) USB20AC5W
	SWITCHED FOURPLEX RECEPTACLE 20A/120V 18" AFF UON - TOP CONTROLLED	(2) BR20C1WHI
	CLOCK RECEPTACLE 120V 96" AFF UON	HBL5325
	SPECIAL PURPOSE RECEPTACLE 18" AFF SEE PLANS FOR DETAILS	
	CEILING MOUNTED DUPLEX RECEPTACLE 20A/120V (FLUSH)	CR20-W
	DUPLEX RECEPTACLE 20A/120V MOUNTED ABOVE COUNTER, HEIGHT SPECIFIED BY ARCHITECT	CR20WHITR
P	DUPLEX RECEPTACLE FOR PROJECTOR	
WP	WEATHER/TAMPER-RESISTANT DUPLEX RECEPTACLE WITH "IN-USE" COVER 20A/120V 18" AFF UON	GFTR20W/ WP26M
	DUPLEX GFI RECEPTACLE 20A/120V MOUNTED ABOVE COUNTER, HEIGHT SPECIFIED BY ARCHITECT	CR20WHITR
S	SAFETY TYPE DUPLEX RECEPTACLE 20A/120V 18" AFF UON	CR20WHITR
	DUPLEX RECEPTACLE, FLOOR MOUTED FLUSH (PROVIDE 1" CONDUIT IN SLAB OR BELOW FLOOR FROM NEAREST WALL TO LOCATION CONFIRMED WITH ARCHITECT.)	CR20WHITR, CFB2G30RCR, CFBS1R6CVR OR FOR POKE THRU, CR20WHITR,S1R4PTFIT S1R4SPDUPLEX, S1R4CVR
	FOURPLEX RECEPTACLE, FLOOR MOUNTED FLUSH (PROVIDE 1" CONDUIT IN SLAB OR BELOW FLOOR FROM NEAREST WALL TO LOCATION CONFIRMED WITH ARCHITECT.)	(2) CR20WHITR, CFB2G30RCR,CFBS1R6CVR OR FOR POKE THRU, (2) CR20WHITR, S1R6PTFIT (2) S1R6SPI,S1R6CVR
	EXISTING DUPLEX RECEPTACLE	
	EXISTING FOURPLEX RECEPTACLE	
	EXISTING 208V RECEPTACLE	
$	SINGLE POLE SWITCH 20A, 48" AFF UON	CS120W
$^D	DIMMER SWITCH, 48" AFF UON, SEE PLAN FOR DETAIL	
$^P	SWITCH WITH PILOT LIGHT, 48" AFF UON	HBL1221PL
$^2	TWO POLE SWITCH 20A, 48" AFF UON	CS1222W
$^T	TIMER SWITCH, 48" AFF UON	INTERMATIC FF60MC
$^F	FAN SWITCH, 48" AFF UON	RF51

ESC-02

DISTRIBUTION SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.

SYMBOL	DESCRIPTION	REMARKS
	HOMERUN (REFER TO PANEL SCHEDULES FOR CONDUIT/WIRING)	
	CIRCUIT ROUTED THRU CONTACTOR OR RELAY	
UE	UNDERGROUND ELECTRIC	
UC	UNDERGROUND COMMUNICATION	
OE	OVERHEAD ELECTRIC	
OC	OVERHEAD COMMUNICATION	
	CIRCUIT INDICATORS (HOT, NEUTRAL, GROUND, SWITCHLEG)	
P	PHOTOCELL	
J	JUNCTION BOX	
J	JUNCTION BOX, FLOOR MOUNTED FLUSH	
J	JUNCTION BOX, WALL MOUNTED - 3/4"C TO ABOVE CEILING	
$^M	MANUAL STARTER WITH THERMAL TRIP	
	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
	STARTER	
	COMBINATION STARTER/DISCONNECT SWITCH, REFER TO SCHEDULE	
	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	
	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE	
	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE	

SPECIAL SYSTEMS SCOPE

ACCESS CONTROL SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

SECURITY SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

TECHNOLOGY SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

INTERCOM SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

FIRE ALARM SYSTEM
1. **EXTEND EXISTING SYSTEM IN MAIN BUILDING TO THE KITCHEN, CLASSROOM WING, AND MULTIPURPOSE INDOOR FACILITY ADDITIONS.**
2. **PROVIDE STANDALONE SYSTEM FOR NEW WEIGHTROOM/CONCESSION BUILDING. INTERCONNECT TO EXISTING MAIN BUILDING SYSTEM WITH FIBER PER DISTRICT REQUIREMENTS.**
3. **DUCT DETECTORS FOR ROOFTOP UNITS ARE TO BE INSTALLED IN THE UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.**

CLASSROOM AUDIO-VIDEO SYSTEM
1. **REFERENCE TECHNOLOGY PLANS AND SPECIFICATIONS.**

MECHANICAL SYSTEMS COMMISSIONING

THIS PROJECT HAS A TOTAL MECHANICAL EQUIPMENT CAPACITY OF 480,000 BTU/H OR MORE THEREFORE COMMISSIONING MUST BE PROVIDED PER THE LATEST STATE ADOPTED ENERGY CODE, 2015 IECC. COORDINATE THE COMMISSIONING SCOPE WITH THE OWNER SELECTED COMMISSIONING AGENT.

LIGHTING CONTROLS SYSTEM COMMISSIONING

LIGHTING CONTROL SYSTEM COMMISSIONING MUST BE PROVIDED PER THE LATEST ADOPTED ENERGY CODE, 2018 IECC, SECTION C408.3. COORDINATE THE COMMISSIONING SCOPE WITH THE OWNER SELECTED COMMISSIONING AGENT.

GENERAL NOTES

A. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.

B. CONTRACTOR IS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.

C. ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY NFPA, BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, NATIONAL ELECTRICAL CODE, ADA, TAS, AND OSHA, AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN. THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT.

D. THE ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE, SIZES OF BREAKERS, FUSES, WIRES, ETC., FOR ALL EQUIPMENT TO BE PROVIDED, INCLUDING BUT NOT LIMITED TO HVAC, LIGHTING, PUMPS, HEATERS, ETC, AND REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT PRIOR TO INSTALLATION OF CONDUIT. COORDINATE WITH MECHANICAL/ELECTRICAL COORDINATION SHEET PROVIDED BY MECHANICAL CONTRACTOR FOR ACTUAL EQUIPMENT BEING USED.

E. HOMERUNS SHALL BE COORDINATED WITH PANELBOARDS. ALL WIRING AND CONDUIT SHALL BE CONCEALED, EXCEPT IN ELECTRICAL ROOMS AND EXPOSED STRUCTURE AREAS.

F. ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY CURRENT N.E.C.

G. MINIMUM WIRE/CONDUIT SIZES, EXCEPT FOR CLASS 2 LOW VOLTAGE CIRCUITS, ARE #12 AWG COPPER IN 1/2" CONDUIT. WHERE THE DISTANCE BETWEEN THE SUPPLYING PANEL AND THE FIRST BRANCH CIRCUIT RECEPTACLE OR LIGHT FIXTURE IS MORE THAN 100 FEET, CONTRACTOR REQUIRED TO UP SIZE CONDUCTOR TO ALLOW FOR MAXIMUM OF 3% VOLTAGE DROP FOR ACTUAL ROUTING OF CONDUITS TO DEVICE.

H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO MAKE A COMPLETE AND WORKABLE SYSTEM.

I. CONFIRM THE EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHTING FIXTURES WITH ARCHITECT BEFORE ROUGH-IN. COORDINATE REQUIRED CLEARANCES ABOVE FIXTURES WITH OTHER TRADES.

J. PROVIDE A TYPED PANEL DIRECTORY FOR ALL PANELBOARDS INDICATING FINAL INSTALLED CONDITION. CIRCUIT LABELING SHALL AGREE WITH EQUIPMENT DESIGNATIONS AND OWNERS FINAL ROOM NUMBERS.

K. LABEL ALL RECEPTACLES AND LIGHT SWITCHES WITH CIRCUIT NUMBER USING AN ELECTRONIC LABELER (BLACK ON CLEAR).

L. THE CONTRACTOR IS TO LAY OUT SERVICE ENTRANCE AND ELECTRIC ROOMS TO SCALE WITH ACTUAL GEAR TO BE INSTALLED TO ENSURE PROPER FIT AND CLEARANCES BEFORE INSTALLATION. COORDINATE ALL SERVICE CLEARANCE REQUIREMENTS WITH LOCAL UTILITY COMPANY. PROVIDE A 1/4" SCALE (MINIMUM) SHOP DRAWING. NOTIFY ARCHITECT/ENGINEERS OF ANY DIMENSIONAL PROBLEMS.

M. COORDINATE AND WIRE ALL DOOR HOLD OPEN DEVICES, AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS. ROUTE 120 VOLT POWER FROM NEAREST AVAILABLE CIRCUIT AS REQUIRED. PROVIDE ALL WIRING NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

N. CONDUITS ROUTED TO ROOF SHALL BE INSTALLED IN SAME ROOF JACK AS MECHANICAL ELEMENTS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ROOF JACK WHERE NO MECHANICAL ELEMENTS EXIST.

O. PROVIDE SLEEVES FOR SPECIAL SYSTEMS ABOVE EACH DOOR INTO A RATED EGRESS CORRIDOR, (1 - 2" AND 3 - 3/4"). FIRE SEAL ENDS AND UNUSED SLEEVES SHALL HAVE A SCREW CAP INSTALLED ON BOTH SIDES. USE THREADED CONDUIT.

P. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE LOCATED AT A HEIGHT SO AS NOT TO BE VISIBLE AFTER INSTALLATION OF EWC. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT BEING PROVIDED. PROTECT WITH GFCI BREAKER.

Q. ALL CONDUITS ROUTED BELOW FINISHED FLOOR SHALL BE RUN BELOW THE GRADE BEAMS. CONDUITS AND MULTIPLE CONDUITS SHALL NOT PENETRATE GRADE BEAMS UNLESS COORDINATED WITH STRUCTURAL ENGINEER. OBTAIN WRITTEN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO BEGINNING WORK.

R. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE AND BUILDING LINES. COORDINATE FINAL CONDUIT ROUTING PATH WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

S. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120 VOLT WIRING AND CONNECTIONS REQUIRED TO FIRE/SMOKE DAMPERS. COORDINATE EXACT LOCATIONS OF DAMPERS WITH MECHANICAL CONTRACTOR AND RELAY REQUIREMENTS WITH FIRE ALARM CONTRACTOR. CONNECT TO NEAREST AVAILABLE UNSWITCHED CIRCUIT UNLESS OTHERWISE INDICATED ON DRAWINGS.

T. ELECTRICAL CONTRACTOR SHALL CONNECT MOTORIZED BACK DRAFT DAMPERS FOR EXHAUST FANS FROM CIRCUIT FEEDING FAN. PROVIDE ALL MATERIAL AND LABOR TO MAKE CONNECTIONS.

U. ELECTRICAL CONTRACTOR TO SEAL ALL PENETRATIONS OF ELECTRICAL WORK IN FIRE AND SMOKE RATED PARTITIONS, CEILINGS, ETC.

V. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTING MEANS AND PROPER FUSING PROTECTION FOR ALL EQUIPMENT PER N.E.C. UNLESS OTHERWISE NOTED.

W. COORDINATE ALL DEVICES IN MILLWORK WITH ARCHITECTURAL MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.

X. SENSOR OPERATED PLUMBING DEVICES: PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMERS FROM MANUFACTURER. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL OTHER MATERIALS AND LABOR FOR COMPLETE INSTALLATION.

Y. SPRAY PAINT JUNCTION BOXES RED FOR FIRE ALARM SYSTEM. ALL OTHER SPECIAL SYSTEM JUNCTION BOXES TO BE PAINTED WHITE.

Z. DO NOT HANG ANY FIXTURES, EQUIPMENT OR CONDUIT FROM ROOF DECK.

AA. LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBERS.

BB. IDENTIFY RECEPTACLE CIRCUITS IN PANELBOARDS TO INDICATE FINAL ROOM NUMBERS. VERIFY FINAL ROOM NUMBERS PRIOR TO TYPING PANELBOARD SCHEDULES.

CC. MECHANICALLY FASTEN ALL LABELS TO EQUIPMENT.

DD. ELECTRICAL CONTRACTOR TO OBTAIN "MECH/ELEC COORDINATION SHEET" FILLED OUT FROM MECHANICAL CONTRACTOR. THIS SHEET IS TO BE INCLUDED WITH ELECTRICAL GEAR/PANELBOARD SUBMITTAL. SUBMITTAL WILL NOT BE CHECKED WITHOUT THIS FORM INCLUDED.

EE. ELECTRICAL CONTRACTOR IS TO PROVIDE ROUGH-IN FOR ALL MECHANICAL CONTROL DEVICES IN WALLS AND PENETRATIONS FOR CONTROL WIRES TO EXTERIOR UNITS. COORDINATE ALL LOCATIONS WITH MECHANICAL CONTRACTOR AND MECHANICAL SHEETS.

FF. DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.

GG. ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

HH. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE 120 VOLT, WEATHERPROOF GFCI DUPLEX RECEPTACLE WITHIN 25 FEET OF ALL PIECES OF NEW OR REPLACEMENT MECHANICAL EQUIPMENT LOCATED ON ROOF, MEZZANINE OR ON THE GROUND. CONNECT TO NEAREST AVAILABLE UNSWITCHED 120 VOLT 20 AMP CIRCUIT WITH LESS THAN 6 RECEPTACLES OR RUN TO NEAREST PANELBOARD AND PROVIDE HOMERUN WITH NEW 20 AMP CIRCUIT BREAKER.

II. **ALL JUNCTION BOXES MOUNTED ABOVE CEILING MUST BE NO MORE THAN 36" ABOVE CEILING GRID.** 2

2

OWNER REQUESTED AIR PURIFIER

CONTRACTOR TO PROVIDE AND INSTALL "NOVAERUS MODEL NV900W" IN EACH ROOM AND IN THE QUANTITY LISTED BELOW. UNIT TO BE INSTALLED AT 6'-8" TO THE BOTTOM OF THE UNIT. EACH UNIT IS TO BE LOCATED ON A NON-TEACHING WALL. PROVIDE 120V-1PH DUPLEX RECEPTACLE NEXT TO EACH UNIT. CONNECT RECEPTACLE TO 120V CONVENIENCE RECEPTACLE CIRCUIT DIRECTLY BELOW AIR PURIFIER RECEPTACLE AS SHOWN.

WHERE APPLICABLE, UNITS IN GYM TO BE LOCATED AT 7'-10" TO THE BOTTOM OF THE UNITS. PROVIDE WIRE GUARD OVER UNITS IN THE GYM. UNITS IN THE CAFETERIA AND LIBRARY ARE TO BE INSTALLED AT 7'-10" TO THE BOTTOM OF THE UNITS. PROVIDE 120V-1PH DUPLEX RECEPTACLE NEXT TO EACH UNIT FOR THE GYM, CAFETERIA, AND LIBRARY. CONNECT RECEPTACLE TO CONVENIENCE RECEPTACLE CIRCUIT DIRECTLY BELOW AIR PURIFIER RECEPTACLE AS SHOWN.

VERIFY EXACT LOCATION AND MOUNTING HEIGHT IN EACH ROOM WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH-IN. UNIT TO PLUG IN WITH THE PROVIDED CORD AND GROUNDED PLUG (6'-6" CORD, 120V-1PH- 3 AMPS).

NUMBER OF UNITS PER ROOM:

CLASSROOMS:	1
NURSE:	N/A
OFFICE RECEPTION:	N/A
GYM:	2
CAFETERIA:	N/A
LIBRARY:	N/A

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO: 94813 ON: 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

MEP/ENERGY CONSULTANTS
HCE HENDRIX CONSULTING ENGINEERS
COMMISSIONING • FIELD INVESTIGATIONS

F - 4095 ©
HCE job no.: 24-034

Revision /	Date	
2	05/14/25	Addendum No.3

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SCHEDULES, NOTES, AND LEGENDS - ELECTRICAL

PACKAGE VOLUME

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Date: 04/22/2025
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E0.01

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Autodesk Docs://HAYS CISD - LEHMAN_JOHNSON HS ADD RENO 2025/LHS2025_MEP23.rvt

RTU ELECTRICAL CONNECTION SCHEDULE

480 / 3	NATURAL [PROPANE] GAS (UNIT TYPES)					MINIMUM WIRE / CONDUIT SIZES		
UNIT TYPE	VOLTAGE / PHASE	KVA	MCA	FUSED DISCONNECT SIZE (NEMA 3R)	MOCP	LENGTH UP TO (FT) 125	LENGTH UP TO (FT) 250	LENGTH UP TO (FT) 375
G2 - 208/1	208/1	3.2	19	30	25	10	17	24
G2.5 - 480/3	480/3	6.1	9	30	15	6	6	6
G3 - 480/3	480/3	6.1	9	30	15	6	6	6
G4 - 480/3	480/3	8.9	13	30	15	6	6	6
G5 - 480/3	480/3	9.5	14	30	15	6	6	13
G6 - 480/3	480/3	10.2	15	30	20	6	6	13
G7 - 480/3	480/3	15.7	23	30	25	13	13	20
G8 - 480/3	480/3	15.7	23	30	25	13	13	20
G10 - 480/3	480/3	17.0	25	30	30	13	13	20
G12 - 480/3	480/3	20.4	30	60	40	20	20	20
G13 - 480/3	480/3	23.2	34	60	45	20	20	20
G15 - 480/3	480/3	22.5	33	60	45	20	20	20
G17 - 480/3	480/3	28.6	42	60	50	20	20	27
G20 - 480/3	480/3	33.4	49	60	50	20	20	27
G25 - 480/3	480/3	44.3	65	100	70	34	34	34

UNIT MARK	UNIT TYPE
RTU-B1	G17
RTU-B2	G17
RTU-B3	G3
RTU-B207	G4
RTU-B208	G4
RTU-C1.1	G3
RTU-C1.2	G3

UNIT MARK	UNIT TYPE
RTU-C1.3	G3
RTU-C1.4	G3
RTU-C1.5	G3
RTU-C1.6	G3
RTU-C1.7	G3
RTU-C1.8	G3
RTU-C2.1	G3

UNIT MARK	UNIT TYPE
RTU-C2.2	G3
RTU-C2.3	G3
RTU-C2.4	G3
RTU-C2.5	G3
RTU-C2.6	G3
RTU-D1	G10
RTU-D103	G10

UNIT MARK	UNIT TYPE
RTU-E1	G17
RTU-E2	G17

UNIT TYPE BREAKDOWN:
G = GAS HEAT RTU, E = ELECTRIC HEAT RTU

STANDARD NOTES:
A. VERIFY FINAL FUSE SIZE WITH ACTUAL EQUIPMENT PROVIDED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING SWITCHGEAR.
B. IN THE EVENT THAT THERE IS A DIFFERENCE BETWEEN MINIMUM WIRE/CONDUIT SIZE ON THIS SCHEDULE AND ON THE PANEL SCHEDULE, BID THE MORE STRINGENT OF THE TWO.
C. SOME UNITS SHOWN ON THE MASTER SCHEDULE(S) MAY NOT BE USED ON THIS JOB.
D. REFERENCE BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE FOR WIRE/CONDUIT DEFINITION.

ESC-17

DISCONNECT SWITCH SCHEDULE

REMARKS:
A. THIS SCHEDULE IS NOT A COMPREHENSIVE DISCONNECT SCHEDULE. REFERENCE OTHER ELECTRICAL CONNECTION SCHEDULES FOR ADDITIONAL DISCONNECT REQUIREMENTS.
B. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN.
C. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.
D. PROVIDE LUG KITS AND/OR WIRING GUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE N.E.C.
E. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES.
F. PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT PER N.E.C.
G. DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.
H. ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
**** U.O.N. FOR ALL PANELS SUBFED FROM TRANSFORMERS THAT REQUIRE DISCONNECT, REFERENCE TRANSFORMER SCHEDULE SECONDARY BREAKER SIZE FOR ALL ENCLOSURE TYPE AND DISCONNECT/FUSE SIZING INFORMATION.**

VOLTAGE RATING	POLES	AMP RATING	ENCLOSURE	FUSE SIZE	S/N	MOTOR STARTER REQ	Load Name
240	2	30.0 A	N1	20.0 A			AHU-B1
240	2	60.0 A	N1	40.0 A			WH-W1
240	3	30.0 A	N1	30.0 A			MOTORIZED BLEACHERS
240	3	30.0 A	N3R	20.0 A			REFRIGERATION SYSTEM (E103)
240	3	60.0 A	N1	50.0 A			WH-C1

VOLTAGE RATING	POLES	AMP RATING	ENCLOSURE	FUSE SIZE	S/N	MOTOR STARTER REQ	Load Name (2)
240	3	400.0 A	N3R	225.0 A			LK
600	1	20.0 A	N1	20.0 A			EUH-F1
600	3	20.0 A	N3R	20.0 A			HP-F1
600	3	100.0 A	N3R	75.0 A			MAU-B1
600	3	200.0 A	N3R	150.0 A			MAU-C1
600	3	600.0 A	N3R	600.0 A			HDP DISC 1
600	3	600.0 A	N3R	600.0 A			HDP DISC 2

(2)

ESC-01-NLIGHT

NLIGHT - DEVICE SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
B. ALL DEVICE PART NUMBERS ARE **NLIGHT** UNLESS OTHERWISE NOTED.
C. THESE DEVICES SHOULD BE USED IN ALL AREAS TO BE CONTROLLED BY NLIGHT.
D. MOTION SENSOR: WHERE MOTION SENSORS ARE SHOWN ON THE PLANS. THAT INDICATES AREA SHOULD BE COVERED IN FULL BY MOTION SENSORS. IT IS UP TO MOTION SENSOR PROVIDER TO PROVIDE APPROPRIATE QUANTITY, LAYOUT, AND TYPE OF MOTION SENSORS FOR COMPLETE COVERAGE. PROVIDE SHOP DRAWING AT SUBMITTAL PHASE.
E. PHOTOCELL: WHERE PHOTOCELLS ARE SHOWN ON PLANS OR IN TYPICAL DETAILS. IE:CLASSROOMS. PHOTOCELL LOCATION AND QUANTITY SHOULD BE DETERMINED BY PHOTOCELL PROVIDER. PHOTOCELLS ARE INTENDED TO DIM LIGHTS IN DAYLIGHT ZONES AS INDICATED BY IECC 2018.
F. IF MULTIPLE ZONE CONTROL IS INDICATED FOR A SPACE AND THOSE ZONES ARE NOT CLEAR TO CONTRACTOR, THE CONTRACTOR IS TO MAKE BEST ASSUMPTION IN SHOP DRAWING PHASE AND NOTE AREAS IN QUESTION. ENGINEER WILL REVIEW AND MAKE ANY ADJUSTMENTS TO ZONES AT THAT TIME.
G. MANUFACTURER TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS INDICATING ALL ASPECTS OF LIGHTING CONTROL AT A MINIMUM OF 1/8" = 1' SCALE WITH CLEAR DESCRIPTIONS AND LEGENDS FOR SYMBOLS.
H. BASIC COMPONENTS ARE CALLED FOR HERE, IT IS EXPECTED THAT MANUFACTURER PROVIDES ALL COMPONENTS FOR A COMPLETE WORKABLE SYSTEM.
I. FACTORY START-UP IS REQUIRED FOR ALL NLIGHT SPACES.
J. CONTRACTOR SHOULD SEND COMPLETE SET OF ELECTRICAL PLANS TO NLIGHT FACTORY REP TO ENSURE A COMPLETE BID.
K. CONTRACTOR TO ASSUME ALL DEVICES INTER-CONNECTED WITH CAT-5 CABLE. PROVIDE ALL REQUIRED CABLING BETWEEN DEVICES. CABLE COLOR IS TO BE COORDINATED WITH THE TECHNOLOGY CABLING TO BE A DIFFERENT COLOR. NO ZIP TIES MAY BE USED FOR SECURING CABLE. ONLY VECRO TIES MAY BE USED

SYMBOL	DESCRIPTION	REMARKS
$\$^{DT}$	DUAL TECHNOLOGY WALL MOUNT MOTION AND DIMMING	nWSXA-PDT-LV-DX
$\$^{C1}$	ONE ZONE CONTROLLER, ON/OFF AND DIMMING	nPODMA-DX
$\$^{C2}$	TWO ZONE CONTROLLER, ON/OFF AND DIMMING	nPODMA-2P-DX
$\$^{C4}$	FOUR ZONE CONTROLLER, 4 PRESET TOGGLE BUTTONS	nPODMA-4S-DX
$\$^{K}$	ONE ZONE KEYED CONTROLLER, ON/OFF AND DIMMING	nPOD-KEY
$\$^{CT}$	COLOR SCENE CONTROLLER	nPODMA-4S-EDUTW
M_{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-9
M_{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-10
M_{DT}	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nWV-PDT-16
(P)	PHOTOCELL	nCM-ADCX

NLIGHT INTERIOR LIGHTING SCHEDULE

GENERAL NOTES:

PROVIDE LIGHTING CONTROL AS REQUIRED PER THE CURRENT ADOPTED EDITION OF IECC - 2015/2018.

(2)
POWER PACKS
FOR FIXTURES THAT ARE NOT NLIGHT COMPATIBLE, PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS AND SHALL BE INSTALLED ABOVE THE DOOR OF THE ROOM BEING SERVED.

AREAS WITH HIGH CEILINGS (15FT OR HIGHER). PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS. LOCATE POWER PACKS IN ACCESSIBLE LOCATION FROM LIGHTING PANEL SERVING CIRCUITS.

WHEN POWER PACKS ARE PROVIDED. CONTRACTOR MUST PROVIDE 0-10V DIMMING WIRES FROM POWER PACK TO FIXTURE FOR CONTROL IN LIEU OF CAT5 CABLE.

NLIGHT MANUFACTURER TO PROVIDE NLIGHT ENABLED FIXTURES OR POWER PACKS TO ACHIEVE ZONING SHOWN ON PLANS FOR SWITCHING AND DAYLIGHT ZONES TO PROVIDE BEST VALUE TO THE PROJECT.

MOTION SENSORS
PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR ENTIRE BUILDING, EXCEPT ELECTRIC ROOMS, AND AS WHEN NOTED EXCEPTION SHOWN ON PLANS. PROVIDE DUAL TECHNOLOGY MOTION SENSORS IN EVERY ROOM AS REQUIRED BY IECC. ASSUME CEILING MOUNT UNLESS WALL MOUNT SHOWN.

VACANCY SENSORS
PROVIDE COMPLETE DUAL TECHNOLOGY VACANCY SENSOR COVERAGE PER IECC IN ALL AREAS EXCEPT EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.

OCCUPANCY SENSORS
PROVIDE COMPLETE DUAL TECHNOLOGY OCCUPANCY SENSOR COVERAGE PER IECC IN ALL EMERGENCY EGRESS CORRIDORS AND PATHWAYS. SHOP DRAWING REQUIRED.

CONTROL STATION
ALL ROOMS SHALL HAVE A CONTROL STATION FOR CONTROL OF LIGHTS IN ROOM. IF NO CONTROL STATION IS SHOWN, ASSUME A TWO ZONE CONTROLLER FOR ROOMS LARGER THAN 9' X 9' AND A WALL MOUNT DUAL TECHNOLOGY CONTROLLER FOR ROOMS SMALLER THAN 9' X 9'.

PROGRAMMING MODULE
PROVIDE (2) NIO BT BLUETOOTH PROGRAMMING MODULES WITH PROJECT AND PROVIDE TO OWNER FOR OWNER'S FUTURE USE. STARTUP TECHNICIAN SHALL PROVIDE OWNER TRAINING ON USE OF MODULE.

PROGRAMMING FOR SPECIAL CONTROLLERS
PROVIDE MINIMUM 2 DAYS FOR PROGRAMMING AND OWNER TRAINING FOR THE NPOD GFX AND TIVOCUE LIGHTING CONTROLLERS SPECIFIED BELOW. COORDINATE WITH OWNER FOR ALL SCENE PROGRAMMING INCLUDING SPECIFIC SCENES SPECIFIED IN THE SECTIONS BELOW AND OTHERS THAT THE OWNER MAY REQUEST.

SPACE TYPE DESCRIPTION:

CLASSROOMS, SCIENCE CLASSROOMS, GENERAL INSTRUCTION ROOMS
A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
B. TWO ZONE CONTROL. ZONE 'a' , ZONE 'b' AS SHOWN IN PLANS AND AS DESCRIBED BELOW:
1. ROOMS WITH UPLIGHTS AND DOWNLIGHTS, ZONE 'a' - DOWNLIGHTS, ZONE 'b' - UPLIGHTS.
2. ROOMS WITH DOWNLIGHTS ONLY, ZONE 'a' - ROW OF LIGHTS AT TEACHING WALL, ZONE 'b' - ALL OTHER LIGHTS IN ROOM, U.N.O.
C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MINOR MOVEMENTS. MANUAL ON / AUTO OFF AFTER 20 MINUTES. SHOP DRAWING REQUIRED.
D. PROVIDE PHOTOCELL AND CONTROL LIGHTS IN DAYLIGHT ZONE PER IECC AS SHOWN ON PLANS.

GYM
A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
B. ONE OVERALL ZONE.
C. 4 - BUTTON STATIONS SHOULD BE PROGRAMMED FOR 100%, 50%, 25%, 10%.
D. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. MANUAL ON / AUTO OFF AFTER 20 MINUTES. SHOP DRAWING REQUIRED.
E. IF 2 COURTS, COURTS ARE TO BE CONTROLLED SEPARATELY.
F. NO PHOTOCELL CONTROL.

KITCHEN
A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
B. LIGHTS SHALL BE MANUAL ON/MANUAL OFF ONLY.
C. NO PHOTOCELL CONTROL.

COMMON AREAS
A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
B. TWO (2) BUTTON ZONE CONTROL. ZONES INDICATED ON PLANS.
C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. AUTO ON. WHEN NO MOTION IS DETECTED AFTER 15 MINUTES, LIGHTS SHALL BE DIMMED TO 10%. IF NO ADDITIONAL MOTION IS DETECTED AFTER 5 MINUTES, LIGHTS SHALL POWER OFF. SHOP DRAWING REQUIRED.

HALLWAYS AND STAIRWELLS
A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS. ANY CONTROL STATION IN A CONTINUOUS CORRIDOR IS TO CONTROL THE ENTIRE CORRIDOR, NOT PORTIONS THEREOF, U.O.N. ON PLANS.
B. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. AUTO ON. WHEN NO MOTION IS DETECTED AFTER 15 MINUTES, LIGHTS SHALL BE DIMMED TO 10%. IF NO ADDITIONAL MOTION IS DETECTED AFTER 2 HOURS, LIGHTS SHALL POWER OFF.

GROUP RESTROOMS
A. PROVIDE ON/OFF CONTROL STATIONS AS SHOWN ON PLANS.
B. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MAJOR MOVEMENTS. AUTO ON. WHEN NO MOTION IS DETECTED AFTER 15 MINUTES, LIGHTS SHALL BE DIMMED TO 10%. IF NO ADDITIONAL MOTION IS DETECTED AFTER 5 MINUTES, LIGHTS SHALL POWER OFF.
C. PROVIDE PLUG LOAD POWER PACK IN ACCESSIBLE LOCATION FOR EXHAUST FAN CONTROL.

SINGLE ZONE ROOMS
A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
B. ONE OVERALL ZONE TO CONTROL ALL LIGHTS IN ROOM.
C. PROVIDE COMPLETE MOTION SENSOR COVERAGE FOR MINOR MOVEMENTS. MANUAL ON / AUTO OFF AFTER 20 MINUTES. SHOP DRAWING REQUIRED.
D. PROVIDE PLUG LOAD POWER PACK IN ACCESSIBLE LOCATION FOR EXHAUST FAN CONTROL IN SINGLE RESTROOMS.

MULTIPURPOSE ATHLETIC COMPLEX (MPAC)
A. PROVIDE (3) SENSORSWITCH PTSA-720-WH-LT PROGRAMMABLE TIMER SWITCHES FOR LIGHTING CONTROL OF (3) LIGHTING ZONES. PROVIDE WEATHERPROOF COVER FOR EACH SWITCH. TIMER CONTROL TO BE ONLY PUBLICLY AVAILABLE CONTROL.
B. PROVIDE (3) 12-POLE LIGHTING CONTACTORS FOR LIGHTING CIRCUIT ON/OFF CONTROL THROUGH EACH PTSA TIME SWITCH. LOCATE LIGHTING CONTACTOR ENCLOSURE ON SERVICE RACK.
C. PROGRAM PTSA SWITCHES FOR BEEP WARNING, 4 HOUR MAX ALLOWABLE TIME AND 60 MINUTE DEFAULT ON TIME. BLINK WARNING NOT TO BE USED.
D. PROVIDE 'NPS-80-EZ-LT' DIMMING ONLY POWER PACKS (NO RELAY, EACH CONTROLLING DIMMING FOR MAX 20 FIXTURES) IN SUFFICIENT QUANTITY FOR THE SPECIFIED LIGHT QUANTITY. PROVIDE FOUR BUTTON SCENE CONTROLLER ('NPODMA-4S-LT' PROGRAMMED FOR 70%, 80%, 90%, 100% DIMMING LEVEL PRESETS FOR OVERALL FACILITY. ON/OFF ZONES NOT TO BE DIMMED INDEPENDENTLY) AND LOCATED ADJACENT TO PTSA TIMER SWITCH IN A LOCKABLE NEMA 3R ENCLOSURE CONECTED TO 0-10V DIMMING WIRES FOR FIXTURES TO ALLOW OWNER TO SET DESIRED PRESET LIGHTING LEVEL. DIMMING CONTROL IS INTENDED TO BE ONLY SET BY DISTRICT PERSONNEL UPON STARTUP OF FACILITY AND ONLY ADJUSTED AS NEEDED BY OWNER. 'NPS-80-EZ-LT' SHALL BE WIRED TO CONSTANT HOT POWER SOURCE, 120V OR 277V.

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

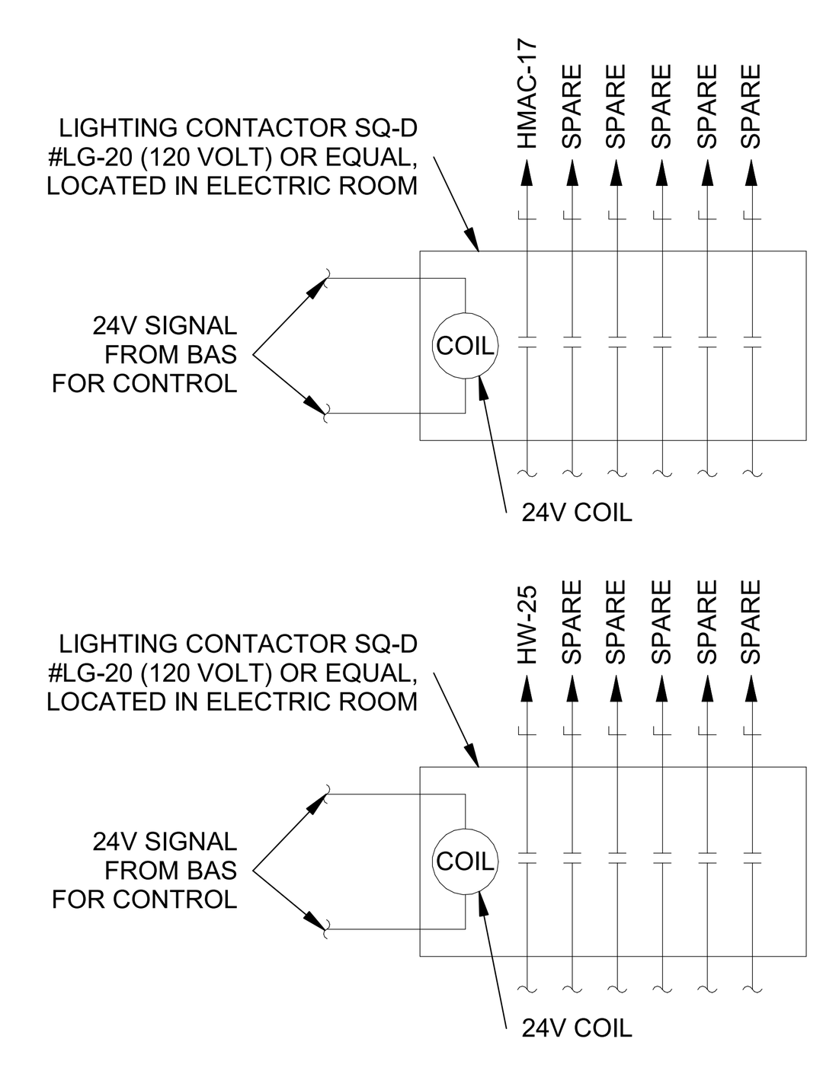
A. CONFIRM CEILING TYPE AND CONSTRUCTION PRIOR TO ORDERING LIGHT FIXTURE. PROVIDE FLANGE KIT FOR PROPER INSTALLATION OF LAY-IN FIXTURE IN GYPSUM CEILING. PROVIDE FIXTURE TYPE 'H2' IN LIEU OF FIXTURE TYP 'A2' IN ROOMS WITH NO CEILING. CHAIN HANG AT 10' A.F.F.
B. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
C. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURE.
D. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES.
E. 'E' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT. LIGHT FIXTURE SHALL BE SWITCHED, BATTERY PACK SHALL BE UNSWITCHED. BATTERY PACKS FOR EXTERIOR FIXTURES SHALL BE COLD WEATHER RATED.
F. 'N' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT. LIGHT FIXTURE AND BATTERY PACK SHALL BE UNSWITCHED.
G. FIXTURES SHALL BE PROVIDED WITH A DIMMING DRIVER.
H. CONNECT ALL EXIT LIGHTING TO THE NEAREST UNSWITCHED CIRCUIT OR THE NEAREST EMERGENCY CIRCUIT.
I. REFERENCE 'NLIGHT DEVICE SYMBOL SCHEDULE' AND 'NLIGHT INTERIOR LIGHTING SCHEDULE'.
J. ELECTRICAL CONTRACTOR SHALL CONFIRM ALL FIXTURE DRIVER VOLTAGE RATINGS MATCH THE PROJECT ELECTRICAL POWER SYSTEM VOLTAGE AND LIGHTING CIRCUIT VOLTAGE PRIOR TO SUBMITTAL.
(*) PROVIDE UNIT PRICE FOR THIS FIXTURE. INCLUDE MATERIAL AND LABOR TO BE ADDED AT ANY TIME DURING THE PROJECT.

MARK	MANUFACTURER	MANUFACTURER'S CATALOG NUMBER	LUMENS	VOLTS	WATTS	DESCRIPTION
A4	LITHONIA	CPX 2x4 6000LM 80CRI 35K SWL MIN1 ZT MVOLT	5983	277 V	42 W	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1%DIMMING, GRID CLG
A5	LITHONIA	CPX 2x4 7200LM 80CRI 35K SWL MIN1 ZT MVOLT	7669	277 V	57 W	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1%DIMMING, GRID CLG
C3	LITHONIA	CPX 2x4 5000LM 80CRI 35K SWL MIN1 ZT MVOLT DGA24	5069	277 V	40 W	LED PANEL 2 x 4 LAY IN FIXTURE, WHITE FINISH. 1%DIMMING, GYP CLG, PROVIDE DRYWALL ADAPTER.
D2G	LITHONIA	LSIX-4FT-4000LM-80CRI-40K-FFR-SWL-MIN1-ZT-MVOLT-MW-DGA	4276	277 V	33 W	LED PANEL 6" x 4' LAY IN FIXTURE, WHITE FINISH. 1%DIMMING, GYP CEILING WITH DRYWALL GRID ADAPTER
F2	FINELITE	HP-X-R-D-XX-H-835-F-277-SC-FC-1%-XX	802/FT	277 V	26 W	2.5" RECESSED LINEAR, HIGH OUTPUT LED. VERIFY TRIM/LOCATION/LENGTH WITH ARCHITECTS RCP. 1% DIMMING
F3-6	FINELITE	HP-X-R-D-XX-V-835-F-277-SC-FC-1%-XX	1032/FT	277 V	50 W	2.5" RECESSED LINEAR, HIGH OUTPUT LED. VERIFY TRIM/LOCATION/LENGTH WITH ARCHITECTS RCP. 1% DIMMING
F5	FINELITE	HPX-P-ID-XX-S-H-835-TG-F-277-DC-FC-1%-FA50-XX-FE-SW	1213/FT	277 V	40 W	(OPEN/HARD CEILING) 2.5" INDIRECT/DIRECT LINEAR PENDANT. STANDARD UP/HIGH DOWN. PROVIDE 150" MOUNTING AIRCRAFT CABLE, COORDINATE LONGER IF REQUIRED. TOP GLOW LENS. VERIFY TRIM/LOCATION/LENGTH WITH ARCHITECTS RCP. 1% DIMMING. CONTROL UPLIGHT SEPARATE FROM DOWNLIGHT.
G1	LITHONIA	WL2 18L MVOLT GZ1 LP835	1796	277 V	18 W	2' SURFACE MOUNT WRAP AROUND LED. MOUNT 6" ABOVE MIRROR, OR 8' ABOVE STAIRS DEPENDING ON APPLICATION. 1% DIM
H2	LITHONIA	CLX L48 5000LM SEF FDL MVOLT GZ1 35K 80CRI WH	4801	277 V	32 W	LED STRIP FIXTURE. CHAIN HANG, AIRCRAFT CABLE OR SURFACE MOUNT DEPENDING ON APPLICATION. PROVIDE THCLX BRACKET WHEN SURFACE MOUNTED. TYPICAL MOUNTING HEIGHT APPROX 8'-12'. 1% DIMMING
J2K	KENALL	MLHA3-48-F-MW-PP-1200LF-35K8-DIM1-DV	4716	277 V	40 W	ENCLOSED LED WET LOCATION STRIP, LOW PROFILE LENS. WHITE FINISH. 1% DIMMING.
J3	LITHONIA	FEM L48 6000LM LPAFL MD MVOLT GZ10 35K 80CRI	5703	277 V	38 W	ENCLOSED LED WET LOCATION STRIP, LOW PROFILE LENS. WHITE FINISH. 10% DIMMING.
J3K	KENALL	MLHA3-48-F-MW-PP-1400LF-35K8-DIM1-DV	5432	277 V	44 W	ENCLOSED LED WET LOCATION STRIP, LOW PROFILE LENS. WHITE FINISH. 1% DIMMING.
L2	LITHONIA	LBR6 NCH 20LM 35K AR LSS MWD MVOLT UGZ1	2533	277 V	25 W	6" LED DOWNLIGHT. TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED. 1%DIMMING.
N1	FINELITE	HP-4-WM-ID-X-H-H-835-TG-F-96LG-277-SC-FC-1%-MB-FE-SW	1618/FT	277 V	83 W	4" WALL MOUNT LINEAR, HIGH OUTPUT UP/DOWN, MOUNT 8' ABOVE STAIRS OR AS OTHERWISE NOTES IN PLANS. VERIFY FINISH WITH ARCHITECT.
S1	VISIONAIRE	VLX-1-T3-96LC-5-3K-VOLTAGE-AM-BZ-WSC-40 (pole) SNTS-5S-11-25'-12BC-136-S1-BZ	18774	480 V	159 W	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FSP-211 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE. PROVIDE A TOTAL OF (2) FSIR-100 PROGRAMMING REMOTES PER JOB TO THE OWNER.
S1H	VISIONAIRE	VMX-II-T4L-55L-3K-VOLTAGE-AM-BZ-WSC-40 (pole) SNTS-5S-11-40'-12BC-136-S1-BZ	45042	480 V	400 W	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FSP-211 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE. PROVIDE A TOTAL OF (2) FSIR-100 PROGRAMMING REMOTES PER JOB TO THE OWNER.
S2	VISIONAIRE	VLX-1-T3-96LC-5-3K-VOLTAGE-AM-BZ-WSC-40 (pole) SNTS-5S-11-25'-12BC-136-D2-BZ	37548	480 V	318 W	POLE MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FSP-211 FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. POLE IS STRAIGHT STEEL, DRILLED FOR FIXTURE MOUNTING AND BASE COVER. FINISH TO MATCH FIXTURE. PROVIDE A TOTAL OF (2) FSIR-100 PROGRAMMING REMOTES PER JOB TO THE OWNER.
T1	LITHONIA	WDGE3 LED P1 30K 70CRI R3 MVOLT NLTAIR2 PIR DDBXD	7524	277 V	52 W	ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FULL CUT-OFF, HIGH EFFICIENCY DRIVER WITH NLIGHTAIR2 SENSORS FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. APPROX. 12-14' AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE.
T3	LITHONIA	WDGE3-LED-P4-30K-70CRI-R3-MVOLT-NLIGHTAIR2-PIR-DDBXD	11295	277 V	88 W	ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FULL CUT-OFF, HIGH EFFICIENCY DRIVER WITH NLIGHTAIR2 SENSORS FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. APPROX. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE.
T5	LITHONIA	WDGE2 LED P3SW 30K 80CRI VW MVOLT NLTAIR2 PIR DDBXD	3213	277 V	23 W	ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, WITH FULL CUT-OFF VISUAL COMFORT LENS, HIGH EFFICIENCY DRIVER WITH NLIGHTAIR2 SENSORS FOR MOTION DIMMING TO 50% AND PHOTOCELL CONTROL. DARK BRONZE FINISH. APPROX. 8-10' AFF. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL. FIXTURE TO BE SECURELY MOUNTED TO A STRUCTURAL SURFACE.
U7	LITHONIA	CPHB 30000LM SEF GCL WD MVOLT GZ10 35K 80CRI DWH	29825	277 V	210 W	12" X 23" HIGH BAY LED, WITH 10% DIMMING. GLARE CONTROL LENS AND WHITE FINISH. USE UNISTRUT TO SPAN JOIST OR MOUNT TO BOTTOM OF JOIST DEPENDING ON LOCATION. PROVIDE NLIGHT POWER PACK AS REQUIRED TO SUIT ZONING ON PLANS.
U8	LUX DYNAMICS	L-6-D-A-840-2-U10-CP-B-3/10-AFH-UM4	65668	277 V	465 W	30" X 25" HIGH BAY LED, WITH 10% DIMMING. WHITE ACRYLIC DIFFUSE LENS AND STANDARD ALUMINUM FINISH. USE UNISTRUT TO SPAN JOIST OR MOUNT TO BOTTOM OF JOIST DEPENDING ON LOCATION. PROVIDE NLIGHT POWER PACK AS REQUIRED TO SUIT ZONING ON PLANS.
X1	BEGHELLI	LC1-E-SA-LR-1-B-AL	N/A	277 V	1 W	LED SINGLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK. BLACK FINISH.
X2	BEGHELLI	LC1-E-SA-LR-2-B-AL	N/A	277 V	1 W	LED DOUBLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK. BLACK FINISH.
X6	LITHONIA	LV S AB 1 R 120/277 EL N UM CW	N/A	277 V	5 W	LED SINGLE FACE EXTREME EXIT SIGN WITH DIE CAST ALUMINUM CONSTRUCTION FOR HIGH ABUSE AREAS. NEMA 4X WET LOCATION RATED.
X7	BEGHELLI	OL2-SA-LR-1-C-MM	N/A	277 V	2 W	EDGE-LIT LED SINGLE FACE MULLION MOUNT WITH ACRYLIC FACE EXIT SIGN, EMERGENCY BATTERY PACK.
Y1	BEGHELLI	EPE	154	277 V	3 W	EMERGENCY EGRESS FIXTURE WITH POLYCARBONATE HOUSING, EMERGENCY BATTERY PACK AND AMMETER. WHITE FINISH. WALL MT APPROX 9' AFF. CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT.
Y2	BEGHELLI	EPE WG4.5Dx17.5LX7WWHT	154	277 V	3 W	EMERGENCY EGRESS FIXTURE WITH POLYCARBONATE HOUSING, EMERGENCY BATTERY PACK AND AMMETER. WHITE FINISH. WALL MT APPROX 9' AFF. CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT. PROVIDE WITH WIRE GUARD.
Y6	LITHONIA	WLTU-MR	INCLUDED	277 V	20 W	WET LOCATION EMERGENCY EGRESS FIXTURE WITH POLYCARBONATE HOUSING, EMERGENCY BATTERY PACK AND AMMETER. GREY FINISH. CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT.
Y7	EELP	OMEL-10W-W-EM-BA-SD	494	277 V	10 W	ARCHITECTURAL EMERGENCY EGRESS MULLION MOUNT FIXTURE WITH ALUMINUM HOUSING. EMERGENCY BATTERY PACK. BRUSHED ALUMINUM FINISH. MOUNT FIXTURE AT MULLION ABOVE DOOR. CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT. WET LOCATION RATED.

CEILING FANS (CF)

CEILING FAN (CF-5):
PROVIDE 'BAFCON' FAN CONTROLLER FOR SINGLE LOCATION CONTROL OF ALL FANS IN SPACE.
PROVIDE CAT5 CABLE DAISY CHAINED FROM CONTROLLER TO ALL FANS.

MARK NO.	STOCK/ MODEL NUMBER	MAX RPM	HP	VOLT/PH/AMPS	BLADE DIAMETER	WEIGHT
CF-5	BAF BASIC 6	110	1.5	208/3/15	14'-0"	192



LIGHTING CONTACTOR DETAIL
SCALE: NONE

EDE-11-BAS

Addendum No.3
Revision / 2
Date 05/14/25

Project: LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
B.J. HENDRIX
94813
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO: 94813 ON: 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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SCHEDULES - ELECTRICAL

PACKAGE VOLUME

Job No. 01954-08-01
Drawn By: PP
Date: 04/22/2025
Sheet No. ISSUE FOR BID
E0.10

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ESC-26

TRANSFORMER SCHEDULE

BASIS OF DESIGN
POWERSMITH E-SAVER (ALUMINUM WOUND)
REFERENCE SCHEDULE AND SPECIFICATIONS FOR PERFORMANCE, TESTING CRITERIA, AND ACCESSORIES (HINGED ACCESS DOORS, INTEGRAL SECONDARY BREAKERS, USB MONITORING, PERFORMANCE VERIFICATION TEST, ETC.)

GENERAL NOTES:

A. ALL FLOOR MOUNTED AND GROUND MOUNTED TRANSFORMERS SHALL HAVE A 3 1/2" CONCRETE PAD. COORDINATE CONCRETE WORK WITH GENERAL CONTRACTOR.

B. COORDINATE WALL HUNG AND/OR TRAPEZE HUNG TRANSFORMERS WITH STRUCTURAL ENGINEER AND ARCHITECT FOR BLOCKING AND STRUCTURAL SUPPORT.

C. PROVIDE PAD TYPE VIBRATION ISOLATORS FOR FLOOR, GROUND AND ROOF MOUNTED TRANSFORMERS. PROVIDE PAD TYPE AND SPRING TYPE VIBRATION ISOLATORS FOR HUNG AND WALL MOUNTED TRANSFORMERS.

D. ROOF MOUNTED TRANSFORMERS SHALL BE MOUNTED ON STRUCTURAL SUPPORTS OR RACK.

E. ALL CONDUCTORS/BREAKERS AND TERMINATIONS ARE BASED ON 75°C. RATING.

F. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.

G. PROVIDE LUG KITS AND/OR WIRING GUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE NEC.

H. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO ENSURE PROPER CLEARANCES.

I. WIRE SIZES SHOWN ARE MINIMUMS. IF LARGER BREAKERS OR PANELS ARE LISTED IN PANEL SCHEDULES, LARGER WIRE SIZE AND QUANTITY RULES.

J. TRANSFORMERS NOT MEETING ENERGY, TESTING, METERING, BREAKER OPTIONS, HINGED ACCESS DOORS REQUIREMENTS WILL NOT BE CONSIDERED. REFERENCE SPECIFICATIONS.

KVA SIZE	PRIMARY				SECONDARY					MAXIMUM WEIGHT
	CIRCUIT BREAKER	WIRE	EQUIPMENT GROUNDING CONDUCTOR	CONDUIT	GROUNDING ELECTRODE CONDUCTOR	MAIN BONDING JUMPER	BREAKER/ FUSE	WIRE	EQUIPMENT GROUNDING CONDUCTOR	CONDUIT	
15	25	3 #10	#10	3/4"	#8	#8	60	4 #6	1 #10	1"	
30	50	3 #8	#10	3/4"	#8	#8	100	4 #3	1 #8	1 1/4"	
45	70	3 #4	#8	1"	#6	#6	150	4 #1/0	1 #6	1 1/2"	370
75	125	3 #1	#6	1 1/2"	#2	#2	225	4 #4/0	1 #4	2 1/2"	875
112.5	175	3 #2/0	#6	2"	#1/0	#1/0	400	4 #600	1 #1	4"	1100
150	225	3 #4/0	#4	2 1/2"	#2/0	#2/0	500	2 SETS (@ 250kcm)	#2 (PER SET)	3" (PER SET)	1500
225	350	3 #400	#3	2 1/2"	#3/0	#3/0	800	2 SETS (4 #600KCM)	#1/0 (PER SET)	4" (PER SET)	1700
300	450	3 #600	#2	3"	#3/0	#3/0	1000/1000	3 SETS (4 #400KCM)	#2/0 (PER SET)	4" (PER SET)	2600
500	800	2 SETS (3 #500KCM)	#1/0 (PER SET)	3" (PER SET)	#3/0	300KCM	1600/1600	4 SETS (4 #600KCM)	#4/0 (PER SET)	4" (PER SET)	2100

* TRANSFORMER MUST MEET LISTED ENERGY RATING CRITERIA. PROVIDE A SUBMITTAL OF LOAD CURVE SHOWING LOADING AT 15%, 35%, 50%, 75% AND 100% WITH K-7 NON LINERAR LOADING PROFILE.
* TRANSFORMERS MUST MEET TESTING CRITERIA AND ALL OPTIONS SPECIFIED.

MARK	PRIMARY VOLTAGE	PH	KVA RATING	SECONDARY VOLTAGE	ENCLOSURE	MOUNTING	REMARKS
T/LMAC	480 V	3	75	208Y/120	NEMA 3R	PAD	
T/LW	480 V	3	112.5	208Y/120	NEMA 1	FLOOR	
T/LB	480 V	3	75	208Y/120	NEMA 1	FLOOR	
T/LC1	480 V	3	30	208Y/120	NEMA 1	RACK	
T/LC2	480 V	3	75	208Y/120	NEMA 1	RACK	
T/LK	480 V	3	75	208Y/120	NEMA 3R	ROOF	

ESC-68

PANELBOARD CONNECTION SCHEDULE

A. USE TABLE FOR WIRE AND CONDUIT SIZES FOR ALL PANELBOARDS UNLESS NOTED OTHERWISE.
B. WIRE SIZES BASED ON 86°F AMBIENT, 75°C COLUMN OF CHART, NEC 310.15(B)(16).
C. TABLE FOR 120/208/3PH/4W AND 277/480/3PH/4W PANELBOARDS.
D. PROVIDE 200% NEUTRAL BUS BAR AND 200% NEUTRAL WIRE WHEN SPECIFIED.

PANEL SIZE OR MCB SIZE	WIRE SIZE	GROUND	CONDUIT
60	4 #6	#10	1"
100	4 #3	#8	1 1/4"
125	4 #1	#6	1 1/2"
150	4 #1/O	#6	2"
200	4 #3/O	#6	2"
225	4 #4/O	#4	2 1/2"
300	4 #350	#4	3"
400	2 SETS 4 #3/O OR	#3 PER SET	2" PER SET
	1 SET 4 #600	#3	4"
600	2 SETS 4 #350	#1 PER SET	3" PER SET
800	2 SETS 4 #600	#1/O PER SET	4" PER SET

ESC-71

SURGE PROTECTION DEVICE SCHEDULE

STANDARDS:

A. PROVIDE TVSS SURGE SUPPRESSION PER LATEST UL. BASIS OF DESIGN, CURRENT TECHNOLOGIES BY ABB. CONTACT SWMCO (512) 965-6784.

B. TVSS MUST BE ABLE TO BE SERVICEABLE WITHOUT SHUTTING PANEL OFF.

C. 3RD PARTY SINGLE IMPULSE SURGE CURRENT TEST MUST BE PROVIDED WITH SUBMITTAL VERIFYING PERFORMANCE MEETS SPECIFICATIONS.

D. WHERE FLUSH MOUNT PANELS ARE SPECIFIED, COORDINATE PANEL MANUFACTURER OPTION WITH ELECTRICAL CONTRACTOR.

E. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

F. VOLTAGE AND CONFIGURATION TO MATCH PANEL BEING SERVICED. REFERENCE RISER DIAGRAM AND PANEL SCHEDULES.

G. 20 YEAR WARRANTY STANDARD.

H. CABLE ENTRY TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.

I. QUANTITIES PER RISER DIAGRAM.

J. PROVIDE 'NEMA 12/4' WHEN ROOF MOUNTED. REFERENCE PLANS AND RISER DIAGRAM.

MARK	TYPE: SL3	TD3	COPS	SURGE CURRENT RATING (KA PER MODE/KA PER PHASE): 80/20	80/160	100/200	125/250	150/300	200/400	250/500	300/600	ENCLOSURE: STDNEMA 124	ALUMINUM	ALUMINUM W/ INTERNAL DISCONNECT	MONITOR: M1 ALARM	M2 COUNTER	M3 ADVANCED	MOUNT: SURFACE	FLUSH	PM FLUSH	PM KIT	HPI CABLE	APPLICATION (WHERE SPECIFIED ON RISER)
1																							SERVICE ENTRANCE
2																							DISTRIBUTION PANELS
3																							BRANCH PANELS
4																							TECHNOLOGY PANELS
5																							DISTRIBUTION PANELS - FLUSH MOUNT
6																							BRANCH PANELS - FLUSH MOUNT

GENERAL RISER DIAGRAM NOTES

A. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.

B. PROVIDE LUG KITS AND/OR WIRING GUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE NEC.

C. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES.

D. REFERENCE "DISCONNECT SCHEDULE" FOR ADDITIONAL DISCONNECT INFORMATION.

E. SUB-FEED BREAKERS SHALL NEVER BE SMALLER THAN THE PANEL/MCB RATING OF THE PANEL BEING FED. CONTRACTOR TO VERIFY PRIOR TO SUBMITTAL AND CONTACT ENGINEER WITH ANY DISCREPANCIES.

COORDINATION STUDY FAULT CURRENT ANALYSIS NOTES

A. GEAR MANUFACTURER SHALL PROVIDE THE COORDINATION STUDY / FAULT CURRENT ANALYSIS / ARC FLASH ANALYSIS AND SHALL DETERMINE ALL FINAL KAIC/ARC FLASH RATINGS FOR ALL GEAR. THIS MUST BE SIGNED BY PROFESSIONAL ENGINEER WHO OVERSEES THE STUDY AT GEAR MANUFACTURER.

B. ARC FLASH AND ARC FAULT LABELING AT SERVICE DISCONNECT AND ALL PANELS IS REQUIRED IN ORDER TO COMPLY WITH NEC 110.16 AND 110.24.

C. FOR THESE LABELS TO BE ACCURATE THE FOLLOWING MUST BE USED:
- ACTUAL AVAILABLE FAULT CURRENT FROM ELECTRIC UTILITY COMPANY.
- ACTUAL WIRE SIZES AND LENGTHS TO BE INSTALLED PER ACTUAL FIELD ROUTING AS DETERMINED BY THE INSTALLING ELECTRICAL CONTRACTOR.

D. AIC RATING OF UTILITY TRANSFORMER MAY NOT HAVE BEEN AVAILABLE FROM UTILITY COMPANY AT TIME OF DOCUMENT COMPLETION.

E. ENGINEER HAS NO CONTROL OVER UTILITY COMPANY TRANSFORMER SELECTIONS. ENGINEER IS NOT RESPONSIBLE FOR SELECTION OF UTILITY TRANSFORMER OR RESULTING AVAILABLE FAULT CURRENT.

F. AIC RATINGS FOR GEAR SHALL MEET OR EXCEED AIC RATINGS DETERMINED BY THE COORDINATION STUDY. THIS COMPLIES WITH NEC 110.9 AND 110.10.

G. ENGINEER IS NOT RESPONSIBLE FOR ACTUAL LENGTHS AND ROUTING OF CONDUIT AND WIRE BEING INSTALLED FOR PROJECT. THIS IS MEANS AND METHODS OF ELECTRICAL CONTRACTOR. THIS INFORMATION IS NOT AVAILABLE TO ENGINEER AT TIME OF DOCUMENT COMPLETION. ELECTRICAL CONTRACTOR SHALL PROVIDE THIS INFORMATION TO GEAR MANUFACTURER FOR REQUIRED STUDY.

H. INSTALLING ELECTRICAL CONTRACTOR SHALL CONTACT UTILITY COMPANY AND OBTAIN AND PROVIDE ACTUAL UTILITY FAULT CURRENT AND ACTUAL WIRE/CONDUIT SIZE AND LENGTHS TO GEAR MANUFACTURER FOR DESCRIBED STUDY.

I. RESULTS OF STUDY SHALL BE PROVIDED TO CITY AS REQUESTED AND STUDY SHALL BE SUBMITTED WITH GEAR SUBMITTAL TO PROJECT ENGINEER.

J. ELECTRICAL CONTRACTOR SHALL LABEL ALL GEAR WITH AVAILABLE FAULT CURRENT AS WELL AS OTHER LABELING REQUIREMENTS PER NEC AND AS LISTED IN SPECIFICATIONS.

K. ALL ITEMS LISTED ABOVE WILL BE PROVIDED BY ELECTRICAL CONTRACTOR AND WILL BE IN A DEFERRED SUBMITTAL.

THE ELECTRICAL RISER DIAGRAM IS SHOWN SCHEMATICALLY IN NATURE TO INDICATE THE RELATIONSHIP OF THE ELECTRICAL SYSTEM COMPONENTS. IT DOES NOT REFLECT THE ACTUAL ROUTING OF CONDUITS. CONTRACTOR SHALL DETERMINE OVERHEAD OR UNDERGROUND CONDUIT ROUTING. CONDUIT SHALL NOT BE ROUTED EXPOSED ON EXTERIOR WALLS EXCEPT OUT OF THE BOTTOM OF THE PANEL TO RUN UNDER SLAB OR TO AN ADJACENT PANEL WITHIN 24". EXTERIOR EXPOSED CONDUIT SHALL BE MINIMIZED.

IMPORTANT ELECTRICAL UTILITY INFORMATION

OWNER IS RESPONSIBLE FOR CALLING AND COMPLETING THE FOLLOWING ITEMS:

- OBTAINING EASEMENTS
- PAYING ALL FEES REQUIRED BY UTILITY COMPANY
- COMPLETING CITY ADDRESS VERIFICATION FORMS
- COMPLETING "OWNER INFORMATION" PORTION OF UTILITY COMPANY LOAD FORM.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE FOLLOWING ITEMS:

- CONTACTING ELECTRIC UTILITY COMPANY WITHIN ONE (1) WEEK OF JOB AWARD AND COORDINATING WITH CONSTRUCTION SCHEDULE. KEEP RECORDS OF COMMUNICATION.
- COORDINATE WITH OWNER ON THEIR REQUIRED INFORMATION ABOVE. KEEP OWNER INFORMED OF ANY ADDITIONAL OWNER REQUIREMENTS TO AVOID DELAYS.
- PROVIDING UTILITY WITH AUTOCAD CIVIL UTILITY PLAN AND BASE FILES SHOWING TRANSFORMER AND METER LOCATIONS. (OBTAIN FROM CIVIL ENGINEER)
- COMPLETION OF ELECTRICAL PORTION OF UTILITY COMPANY LOAD FORMS BASED ON LOAD ANALYSIS PROVIDED ON THE PLANS.
- PROVIDING ELECTRICAL RISER DIAGRAM TO UTILITY FROM PLANS.

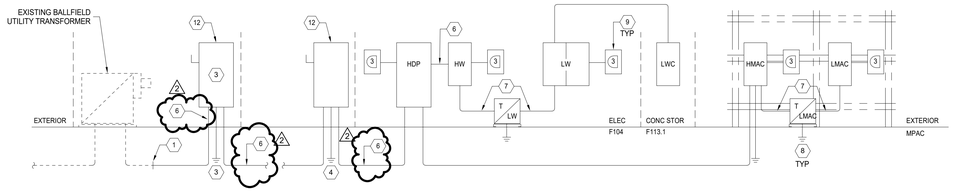
UTILITY COMPANY CONTACT:
PEDERNALES ELECTRIC COOPERATIVE

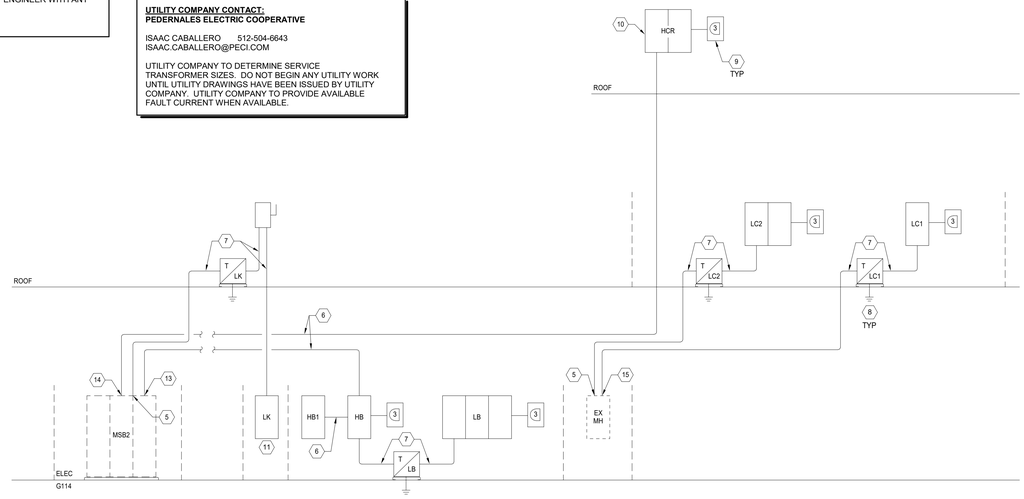
ISAAC CABALLERO 512-504-6643
ISAAC.CABALLERO@PECI.COM

UTILITY COMPANY TO DETERMINE SERVICE TRANSFORMER SIZES. DO NOT BEGIN ANY UTILITY WORK UNTIL UTILITY DRAWINGS HAVE BEEN ISSUED BY UTILITY COMPANY. UTILITY COMPANY TO PROVIDE AVAILABLE FAULT CURRENT WHEN AVAILABLE.

RISER KEYED NOTES

1. EXTEND EXISTING SECONDARY STUBS FROM UTLIITY TRANSFORMER. FIELD COORDINATE EXISTING STUB LOCATIONS.
2. TWO (2) SETS OF 4 #600 KCM. EACH SET IN A 4" CONDUIT.
3. PROVIDE FUSED DISCONNECT AT EXISTING ELECTRICAL YARD. GROUND PER NEC 250. FIELD COORDINATE LOCATION IN EXISTING ELECTRICAL YARD TO PROVIDE REQUIRED NEC CLEARANCES.
4. REFERENCE REMOTE BUILDING GROUNDING DETAIL.
5. PROVIDE AND INSTALL 125A/3P BREAKER IN EXISTING GEAR.
6. REFERENCE PANELBOARD CONNECTION SCHEDULE FOR CONDUIT/WIRING SIZES AND QUANTITIES.
7. REFERENCE TRANSFORMER SCHEDULE FOR CONDUIT/WIRING SIZES AND QUANTITIES.
8. REFERENCE TRANSFORMER GROUNDING DETAIL FOR GROUNDING REQUIREMENTS.
9. REFERENCE SURGE PROTECTION DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
10. REFERENCE ROOF MOUNTED TRANSFORMER AND DISCONNECT MOUNTING DETAIL, ON DETAIL SHEETS.
11. PANELS IN KITCHEN TO BE FLUSH MOUNTED.
12. REFERENCE DISCONNECT SCHEDULE FOR ADDITIONAL INFORMATION.
13. FEED FROM EXISTING 600A/3P SPARE.
14. PROVIDE AND INSTALL 400A/3P BREAKER IN EXISTING MSB2.
15. PROVIDE AND INSTALL 50A/3P BREAKER IN EXISTING PANEL.





01 ELECTRICAL RISER DIAGRAM

SCALE: NONE

Addendum No.3
Date 05/14/25
Revision / 2

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
R. J. HENDRIX
94813
LICENSED PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY R. J. HENDRIX, P.E. NO. 94813 ON 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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RISER DIAGRAM - ELECTRICAL

PACKAGE VOLUME

Job No. 01954-08-01
Sheet No. ISSUE FOR BID E0.11
Drawn By: pp
Date: 04/22/2025

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CIRCUIT BREAKER PANELBOARD: LC1

LEHMAN HIGH SCHOOL

LOCATION: ELEC C207 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA 1 **A.I.C. RATING:** REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
MAIN DEVICE: 100.0 A MAIN CB **SPECIAL:**
BUS AMPS: 100 AMPS

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A		B		C		P	BKR	Wire/Conduit	Load Name	CKT
1	RECEPTACLES	2	20 A	1	1.3	1.3					1	20 A	2	RECEPTACLES	2
3	RECEPTACLES	2	20 A	1			1.8	1.2			1	20 A	2	RECEPTACLES	4
5	RECEPTACLES	2	20 A	1					1.3	1.3	1	20 A	2	RECEPTACLES	6
7	RCPT		20 A	1	0.7	1.3					1	20 A	2	RECEPTACLES	8
9	RECEPTACLES	2	20 A	1			1.3	1.3			1	20 A	2	RECEPTACLES	10
11	RECEPTACLES	2	20 A	1					1.3	0.5	1	20 A	2	RECEPTACLES	12
13	RECEPTACLES	2	20 A	1	1.1	1.3					1	20 A	2	RECEPTACLES	14
15	RECEPTACLES	2	20 A	1			0.5	1.3			1	20 A	2	RECEPTACLES	16
17	RECEPTACLES	2	20 A	1					1.3	0.7	1	20 A	2	RECEPTACLES	18
19	EWC	2,(f)	20 A	1	0.7	0.0					1	20 A	--	SPARE	20
21	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	22
23	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	26
27	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	28
29	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	30
31	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	32
33	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	34
35	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1	0.0	0.0									38
39	SPARE	--	20 A	1			0.0	0.0			3	60 A	---	SPD	40
41	SPARE	--	20 A	1					0.0	0.0					42
			TOTAL LOAD:		8 kVA		7 kVA		6 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	8.1 kVA	100.00%	8.1 kVA		
SPEC	13.4 kVA	100.00%	13.4 kVA	CONNECTED LOAD:	21.5 kVA
				ESTIMATED DEMAND:	21.5 kVA
				EST. DEMAND CURRENT:	59.6 A

NOTES:

CIRCUIT BREAKER PANELBOARD: LB

LEHMAN HIGH SCHOOL

LOCATION: **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA 1 **A.I.C. RATING:** REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
MAIN DEVICE: 225.0 A MAIN CB **SPECIAL:**
BUS AMPS: 225 AMPS

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A		B		C		P	BKR	Wire/Conduit	Load Name	CKT
1	HAND DRYER	2	20 A	1	1.5	1.5					1	20 A	2	HAND DRYER	2
3	RECEPTACLES (f)	2	20 A	1			0.5	0.5			1	20 A	2	RECEPTACLES	4
5	RECEPTACLES	2	20 A	1					0.9	0.9	1	20 A	2	RECEPTACLES	6
7	AV RACK	2	20 A	1	1.5	1.5					1	20 A	2	AV RACK	8
9	AV RACK	2	20 A	1			1.5	1.5			1	20 A	2	AV RACK	10
11	AV RACK	2	20 A	1					1.5	0.5	1	20 A	2	RECEPTACLES	12
13	RECEPTACLES	2	20 A	1	0.5	0.5					1	20 A	2	RECEPTACLES	14
15	RECEPTACLES	2	20 A	1			0.5	1.5			1	20 A	2,(f)	EWC	16
17	EWC	2,(f)	20 A	1					1.5	1.1	1	20 A	2	RECEPTACLES	18
19	PROJECTOR	2	20 A	1	0.5	1.1					1	20 A	2	RECEPTACLES	20
21	SCOREBOARD	2	20 A	1			0.5	0.7			1	20 A	2	RECEPTACLES	22
23	RECEPTACLES	2	20 A	1					0.9	1.0	1	20 A	2	PROJECTION SCREEN	24
25	RECEPTACLES	2	20 A	1	0.4	1.5					1	20 A	2	MOTORIZED PARTITION	26
27	MOTORIZED BBALL GOAL	2	20 A	1			1.0	1.0			1	20 A	2	MOTORIZED BBALL GOAL	28
29	MOTORIZED BBALL GOAL	2	20 A	1					1.0	1.0	1	20 A	2	MOTORIZED BBALL GOAL	30
31	MOTORIZED BBALL GOAL	2	20 A	1	1.0	1.0					1	20 A	2	MOTORIZED BBALL GOAL	32
33							2.0	0.9			1	20 A	2	RECEPTACLES	34
35	MOTORIZED BLEACHERS	14	30 A	3					2.0	0.5	1	20 A	2	RECEPTACLES	36
37					2.0	0.7					1	20 A	2	RECEPTACLES	38
39	EF-B2	2	20 A	1			0.5	0.7			1	20 A	2,(f)	EWC	40
41	EWC	2,(f)	20 A	1					0.7	1.5	1	20 A	2	WH-B1	42
43	HWRP-B1	2	20 A	1	0.7	0.0					1	20 A	--	SPARE	44
45	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	46
47	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	48
49	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	50
51	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	52
53	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	54
55	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	56
57	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	58
59	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	60
61	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	62
63	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	64
65	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	66
67	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	68
69	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	70
71	SPARE	--	20 A	1					0.0	--	1	--	--	SPACE	72
73	SPARE	--	20 A	1	0.0	--					1	--	--	SPACE	74
75	SPARE	--	30 A	2			0.0	--			1	--	--	SPACE	76
77									0.0	--	1	--	--	SPACE	78
79					0.0	0.0									80
81	SPARE	--	30 A	3			0.0	0.0			3	60 A	---	SPD	82
83									0.0	0.0					84
			TOTAL LOAD:		16 kVA		13 kVA		15 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	1.1 kVA	100.00%	1.1 kVA		
RCPT	23.4 kVA	71.37%	16.7 kVA	CONNECTED LOAD:	44.2 kVA
SPEC	18.2 kVA	100.00%	18.2 kVA	ESTIMATED DEMAND:	37.5 kVA
HEAT	1.5 kVA	100.00%	1.5 kVA		
				EST. DEMAND CURRENT:	104.0 A

NOTES:

CIRCUIT BREAKER PANELBOARD: LWC

LEHMAN HIGH SCHOOL

LOCATION: **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA 1 **A.I.C. RATING:** REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
MAIN DEVICE: 100.0 A MAIN CB **SPECIAL:**
BUS AMPS: 100 AMPS

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A kVA		B kVA		C kVA		P	BKR	Wire/Conduit	Load Name	CKT
1	RECEPTACLES	2	20 A	1	0.7	1.5					1	20 A	2	ICEMAKER	2
3	MERCHANDISER	2	20 A	1			1.5	1.5			1	20 A	2	MERCHANDISER	4
5	REFRIGERATOR	2	20 A	1					1.0	1.0	1	20 A	2	RECEPTACLES	6
7	RECEPTACLES	2	20 A	1	1.0	1.0					1	20 A	2	RECEPTACLES	8
9	RECEPTACLES	2	20 A	1			1.0	1.0			1	20 A	2	RECEPTACLES	10
11	RECEPTACLES	2	20 A	1					1.0	1.0	1	20 A	2	RECEPTACLES	12
13	RECEPTACLES	2	20 A	1	1.0	0.0					1	20 A	--	SPARE	14
15	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	16
17	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	20
21	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	22
23	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	26
27	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	28
29	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	30
31	SPACE	--	--	1	--	--					1	--	--	SPACE	32
33	SPACE	--	--	1			--	--			1	--	--	SPACE	34
35	SPACE	--	--	1					--	--	1	--	--	SPACE	36
37	SPACE	--	--	1	--	--					1	--	--	SPACE	38
39	SPACE	--	--	1			--	--			1	--	--	SPACE	40
41	SPACE	--	--	1					--	--	1	--	--	SPACE	42
			TOTAL LOAD:		5 kVA		5 kVA		4 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	14.0 kVA	85.76%	12.0 kVA		
				CONNECTED LOAD:	14.0 kVA
				ESTIMATED DEMAND:	12.0 kVA
				EST. DEMAND CURRENT:	33.3 A

NOTES:

CIRCUIT BREAKER PANELBOARD: LW

LEHMAN HIGH SCHOOL

LOCATION: ELEC E104 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA 1 **A.I.C. RATING:** REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
MAIN DEVICE: 400.0 A MAIN CB **SPECIAL:**
BUS AMPS: 400 AMPS

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A		B		C		P	BKR	Wire/Conduit	Load Name	CKT
1	RECEPTACLES	2	20 A	1	1.1	0.9					1	20 A	2	RECEPTACLES	2
3	FACP	2	20 A	1			1.0	1.0			1	20 A	2,(f)	VENDING	4
5	VENDING	2,(f)	20 A	1					1.0	1.0	1	20 A	2,(f)	VENDING	6
7	RECEPTACLES	2	20 A	1	0.9	1.5					1	20 A	2	OVERHEAD DOOR POWER	8
9	RECEPTACLES	2	20 A	1			1.1	1.5			1	20 A	2	OVERHEAD DOOR POWER	10
11	RECEPTACLES	2	20 A	1					0.9	1.1	1	20 A	2	RECEPTACLES	12
13	RECEPTACLES	2	20 A	1	1.1	1.3					1	20 A	2	RECEPTACLES	14
15	AV RACK	2	20 A	1			1.5	1.5			1	20 A	2	AV RACK	16
17	AV RACK	2	20 A	1					1.5	1.0	1	20 A	2,(f)	EWC	18
19	EWC	2,(f)	20 A	1	1.0	1.5					1	20 A	2	FIRE PUMP	20
21	RECEPTACLES	2	20 A	1			0.5	1.5			1	20 A	2	OVERHEAD DOOR POWER	22
23	OVERHEAD DOOR POWER	2	20 A	1					1.5	1.1	1	20 A	2	RECEPTACLES	24
25	RECEPTACLES	2	20 A	1	1.3	1.5					1	20 A	2	HAND DRYER	26
27	HAND DRYER	2	20 A	1			1.5	0.7			1	20 A	2	RECEPTACLES	28
29	HAND DRYER	2	20 A	1					0.2	0.2	1	20 A	2	HAND DRYER	30
31	HAND DRYER	2	20 A	1	0.2	0.2					1	20 A	2	HAND DRYER	32
33	HAND DRYER	2	20 A	1			0.2	0.2			1	20 A	2	HAND DRYER	34
35									0.8	0.8					36
37	CF-5	7	20 A	3	0.8	0.8					3	20 A	7	CF-5	38
39							0.8	0.8							40
41	ROOF RECEPTACLES	2	20 A	1					0.7	0.2	1	20 A	2	EF-F1	42
43					0.8	0.2					1	20 A	2	IDF RECEPTACLES	44
45	CF-5	7	20 A	3			0.8	0.4			1	20 A	2	IDF RECEPTACLES	46
47									0.8	0.2	1	20 A	2	IDF RECEPTACLES	48
49	IDF RECEPTACLES	2	20 A	1	0.2	0.2					1	20 A	2	IDF RECEPTACLES	50
51	IDF RECEPTACLES	2	20 A	1			0.2	0.2			1	20 A	2	FUTURE IDF POWER	52
53	FUTURE IDF POWER	2	20 A	1					0.2	3.0	2	40 A	17	WH-W1	54
55	WEIGHT RACK LTG	2	20 A	1	1.9	3.0									56
57	WEIGHT RACK LTG	2	20 A	1			1.9	1.0			1	20 A	2	EF-F2	58
59	WEIGHT RACK LTG	2	20 A	1					1.9	0.6	1	20 A	2	EF-F3	60
61	WEIGHT RACK LTG	2	20 A	1	1.9	0.7					1	20 A	2,(f)	EWC	62
63	WEIGHT RACK LTG	2	20 A	1			1.9	0.7			1	20 A	2,(f)	EWC	64
65	WEIGHT RACK LTG	2	20 A	1					1.9	0.5	2	20 A	5	AHU-B1	66
67	ICE MACHINE	2,(f)	20 A	1	1.5	0.5									68
69	EWC	2,(f)	20 A	1			0.7	0.6			1	20 A	2	MOTORIZED DAMPERS	70
71	EWC	2,(f)	20 A	1					0.7	0.0	1	20 A	--	SPARE	72
73	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	74
75	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	76
77	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	78
79	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	80
81	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	82
83	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	84
85	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	86
87	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	88
89	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	90
91	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	92
93	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	94
95	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	96
97	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	98
99	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	100
101	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	102
103	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	104
105	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	106
107	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	108
109	SPARE	--	20 A	1	0.0	0.0									110
111	SPARE	--	20 A	1			0.0	0.0			3	20 A	--	SPARE	112
113	SPARE	--	30 A	2					0.0	0.0					114
115					0.0	0.0									116
117	SPARE	--	20 A	2			0.0	0.0			3	20 A	--	SPARE	118
119									0.0	0.0					120
121					5.1	0.0									122
123	LWC	(g)	100 A	3			5.0	0.0			3	60 A	---	SPD	124
125									3.9	0.0					126
			TOTAL LOAD:		30 kVA		26 kVA		25 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	2.7 kVA	100.00%	2.7 kVA		
RCPT	41.2 kVA	62.14%	25.6 kVA	CONNECTED LOAD:	80.5 kVA
LITES	11.5 kVA	125.00%	14.4 kVA	ESTIMATED DEMAND:	68.3 kVA
SPEC	25.2 kVA	102.07%	25.7 kVA		
				EST. DEMAND CURRENT:	189.7 A

NOTES:

CIRCUIT BREAKER PANELBOARD: LC2

LEHMAN HIGH SCHOOL

LOCATION: ELEC C207 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA 1 **A.I.C. RATING:** REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
MAIN DEVICE: 225.0 A MAIN CB **SPECIAL:**
BUS AMPS: 225 AMPS

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A		B		C		P	BKR	Wire/Conduit	Load Name	CKT
1	RECEPTACLES	2	20 A	1	1.4	1.2					1	20 A		RCPT	2
3	RECEPTACLES	2	20 A	1			1.3	1.3			1	20 A	2	RECEPTACLES	4
5	RECEPTACLES	2	20 A	1					1.3	1.3	1	20 A	2	RECEPTACLES	6
7	RECEPTACLES	2	20 A	1	1.3	1.3					1	20 A	2	RECEPTACLES	8
9	RECEPTACLES	2	20 A	1			0.9	0.5			1	20 A	2	RECEPTACLES	10
11	RECEPTACLES	2	20 A	1					0.4	0.4	1	20 A	2	RECEPTACLES	12
13	RECEPTACLES	2	20 A	1	0.4	0.7					1	20 A	2	RECEPTACLES	14
15	UTILTY CONTROLLER	2	20 A	1			0.2	0.4			1	20 A	2	RECEPTACLES	16
17	GOGGLE CABINET	2	20 A	1					0.5	0.4	1	20 A	2	RECEPTACLES	18
19	RECEPTACLES	2	20 A	1	0.4	0.4					1	20 A	2	RECEPTACLES	20
21	FUME HOOD	2	20 A	1			0.5	0.4			1	20 A	2	RECEPTACLES	22
23	RECEPTACLES	2	20 A	1					0.4	0.5	1	20 A	2	GOGGLE CABINET	24
25	FUME HOOD	2	20 A	1	0.5	0.4					1	20 A	2	RECEPTACLES	26
27	RECEPTACLES	2	20 A	1			0.5	0.4			1	20 A	2	RECEPTACLES	28
29	RECEPTACLES	2	20 A	1					0.4	0.9	1	20 A	2	RECEPTACLES	30
31	RECEPTACLES	2	20 A	1	0.5	0.4					1	20 A	2	RECEPTACLES	32
33	RECEPTACLES	2	20 A	1			0.4	0.4			1	20 A	2	RECEPTACLES	34
35	HWRP-C1	2	20 A	1					0.7	0.7	1	20 A	2	RECEPTACLES	36
37	EF-C3,-C4	2	20 A	1	1.6	1.3					1	20 A	2	ROOF RECEPTACLES	38
39	EF-C2	2	20 A	1			1.0	1.0			1	20 A	2	EF-C1	40
41	UTILTY CONTROLLER	2	20 A	1					0.2	1.2	1	20 A	2	RECEPTACLES	42
43	RECEPTACLES	2	20 A	1	1.4	0.2					1	20 A	2	UTILITY CONTROLLER	44
45							4.1	1.1			1	20 A	2	RECEPTACLES	46
47	WH-C1	21	50 A	3					4.1	0.0	1	20 A	--	SPARE	48
49					4.1	0.0					1	20 A	--	SPARE	50
51	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	52
53	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	54
55	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	56
57	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	58
59	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	60
61	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	62
63	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	64
65	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	66
67	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	68
69	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	70
71	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	72
73	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	74
75	SPARE	--	30 A	2			0.0	0.0			1	20 A	--	SPARE	76
77									0.0	0.0	1	20 A	--	SPARE	78
79					0.0	0.0									80
81	SPARE	--	30 A	3			0.0	0.0			3	60 A	---	SPD	82
83									0.0	0.0					84
			TOTAL LOAD:		17 kVA		14 kVA		13 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	4.2 kVA	100.00%	4.2 kVA		
RCPT	17.8 kVA	78.05%	13.9 kVA	CONNECTED LOAD:	44.2 kVA
SPEC	10.1 kVA	100.00%	10.1 kVA	ESTIMATED DEMAND:	40.3 kVA
HEAT	12.3 kVA	100.00%	12.3 kVA		
				EST. DEMAND CURRENT:	111.9 A

NOTES:

CIRCUIT BREAKER PANELBOARD: LMAC

LEHMAN HIGH SCHOOL

LOCATION: **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA 3R **A.I.C. RATING:** REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
MAIN DEVICE: 225.0 A MAIN CB **SPECIAL:**
BUS AMPS: 225 AMPS

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

CKT	Load Name	Wire/Conduit	BKR	P	A kVA		B kVA		C kVA		P	BKR	Wire/Conduit	Load Name	CKT
1	RECEPTACLES	2	20 A	1	1.9	1.9					1	20 A	2	RECEPTACLES	2
3	RECEPTACLES	2	20 A	1			0.5	1.9			1	20 A	2	RECEPTACLES	4
5	RECEPTACLES	2	20 A	1					0.7	1.9	1	20 A	2	RECEPTACLES	6
7	RECEPTACLES	2	20 A	1	1.9	1.9					1	20 A	2	RECEPTACLES	8
9	RECEPTACLES	2	20 A	1			1.9	1.9			1	20 A	2	RECEPTACLES	10
11	RECEPTACLES	2	20 A	1					1.9	1.9	1	20 A	2	RECEPTACLES	12
13	RECEPTACLES	2	20 A	1	1.9	1.9					1	20 A	2	RECEPTACLES	14
15	RECEPTACLES	2	20 A	1			1.9	0.7			1	20 A	2	RECEPTACLES	16
17	RECEPTACLES	2	20 A	1					1.9	0.5	1	20 A	2	RECEPTACLES	18
19	RECEPTACLES	2	20 A	1	1.9	1.9					1	20 A	2	RECEPTACLES	20
21	RECEPTACLES	2	20 A	1			1.9	1.9			1	20 A	2	RECEPTACLES	22
23	RECEPTACLES	2	20 A	1					1.9	1.9	1	20 A	2	RECEPTACLES (2)	24
25	RECEPTACLES	2	20 A	1	[illegible]	0.5					1	20 A	2	RECEPTACLES	26
27	SPORTS NETTING	2	20 A	1			1.7	1.7			1	20 A	2	SPORTS NETTING	28
29	SPORTS NETTING	2	20 A	1					1.7	1.7	1	20 A	2	SPORTS NETTING	30
31	SPORTS NETTING	2	20 A	1	1.7	0.0					1	20 A	--	SPARE	32
33	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	34
35	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1	0.0	0.0									38
39	SPARE	--	20 A	1			0.0	0.0			3	60 A	---	SPD	40
41	SPARE	--	20 A	1					0.0	0.0					42
			TOTAL LOAD:		18 kVA		16 kVA		16 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	41.6 kVA	62.01%	25.8 kVA		
SPEC	8.3 kVA	100.00%	8.3 kVA	CONNECTED LOAD:	49.9 kVA
				ESTIMATED DEMAND:	34.1 kVA
				EST. DEMAND CURRENT:	94.7 A

NOTES:

CIRCUIT BREAKER PANELBOARD: LK

LEHMAN HIGH SCHOOL

LOCATION: SERVING LINE D101 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: RECESSED NEMA 1 **A.I.C. RATING:** REF. FAULT CURRENT STUDY NOTES ON RISER DIAGRAM SHEET
MAIN DEVICE: 225.0 A MAIN CB **SPECIAL:**
BUS AMPS: 225 AMPS

NOTES: (THESE ITEMS APPLY ONLY WHERE SPECIFIED BELOW)
(a) REFERENCE SPLIT SYSTEM / ROOFTOP ELECTRICAL CONNECTION SCHEDULE.
(b) REFERENCE TRANSFORMER SCHEDULE.
(c) REFERENCE FAN POWERED BOX / VAV CONNECTION SCHEDULE.
(d) PROVIDE WITH SHUNT TRIP BREAKER.
(e) PROVIDE WITH PERMANANTLY INSTALLED LOCKING DEVICE
(f) PROVIDE WITH GFCI BREAKER.
(g) REFERENCE ASSOCIATED PANEL SCHEDULE.
(h) PROVIDE 6" PANEL EXTENSION AND CT'S.

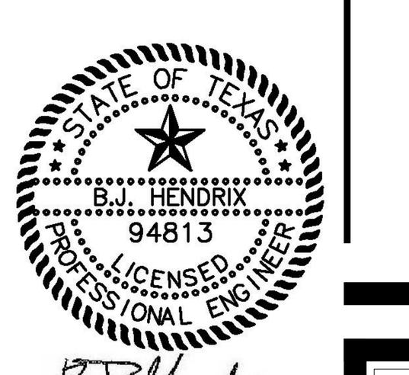
CKT	Load Name	Wire/Conduit	BKR	P	A kVA		B kVA		C kVA		P	BKR	Wire/Conduit	Load Name	CKT
1					4.8	7.8									2
3	LOAD CENTER (E201A)	28	60 A	3			4.8	7.8			3	100 A	42	LOAD CENTER (E201B)	4
5									4.8	7.8					6
7					1.3	1.0					2	20 A	5	ICE MACHINE (E109)	8
9	REFRIGERATION SYSTEM (E103)	7	20 A	3			1.3	1.0							10
11									1.3	1.6	2	20 A	5	HEATED CABINET (E187)	12
13	HEATED CABINET (E191)	5	20 A	2	1.6	1.6									14
15							1.6	0.6			1	20 A	2	VIDEO/DATA SYS (E615)	16
17	VIDEO/DATA SYS (E615)	2	20 A	1					0.6	0.8	1	20 A	2	REFRIGERATOR (E192)	18
19	REFRIGERATOR (E188)	2	20 A	1	0.9	1.9					1	20 A	2	DOOR HTR/LTS (E102A)	20
21	TEMP ALARM (E102B)	2	20 A	1			0.6	0.2			1	20 A	2	COOLER COIL (E103D)	22
23	RECEPTACLES	2	20 A	1					0.5	0.7	1	20 A	2	RECEPTACLES	24
25	OVERHEAD DOOR POWER	2	20 A	1	1.0	0.0					1	20 A	--	SPARE	26
27							0.0	0.0			1	20 A	--	SPARE	28
29	SPARE	--	60 A	3					0.0	0.0	1	20 A	--	SPARE	30
31					0.0	0.0					1	20 A	--	SPARE	32
33	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	34
35	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	36
37	SPARE	--	20 A	1	0.0	0.0					1	20 A	--	SPARE	38
39	SPARE	--	20 A	1			0.0	0.0			1	20 A	--	SPARE	40
41	SPARE	--	20 A	1					0.0	0.0	1	20 A	--	SPARE	42
			TOTAL LOAD:		22 kVA		18 kVA		18 kVA						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	2.5 kVA	100.00%	2.5 kVA		
SPEC	1.0 kVA	100.00%	1.0 kVA	CONNECTED LOAD:	58.1 kVA
KTCH	54.7 kVA	65.00%	35.5 kVA	ESTIMATED DEMAND:	39.0 kVA
				EST. DEMAND CURRENT:	108.2 A

NOTES:

Addendum No.3
Date 05/14/25
Revision / 2

Project: LEHMAN HIGH SCHOOL 2025 ADDITIONS + RENOVATIONS FOR HAYS CISD KYLE, TX



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REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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PANEL SCHEDULES - ELECTRICAL

PACKAGE VOLUME
Job No. 01954-08-01
Drawn By: PP
Date: 04/22/2025
Sheet No. ISSUE FOR BID
E0.13

5/14/2025 9:14:20 AM
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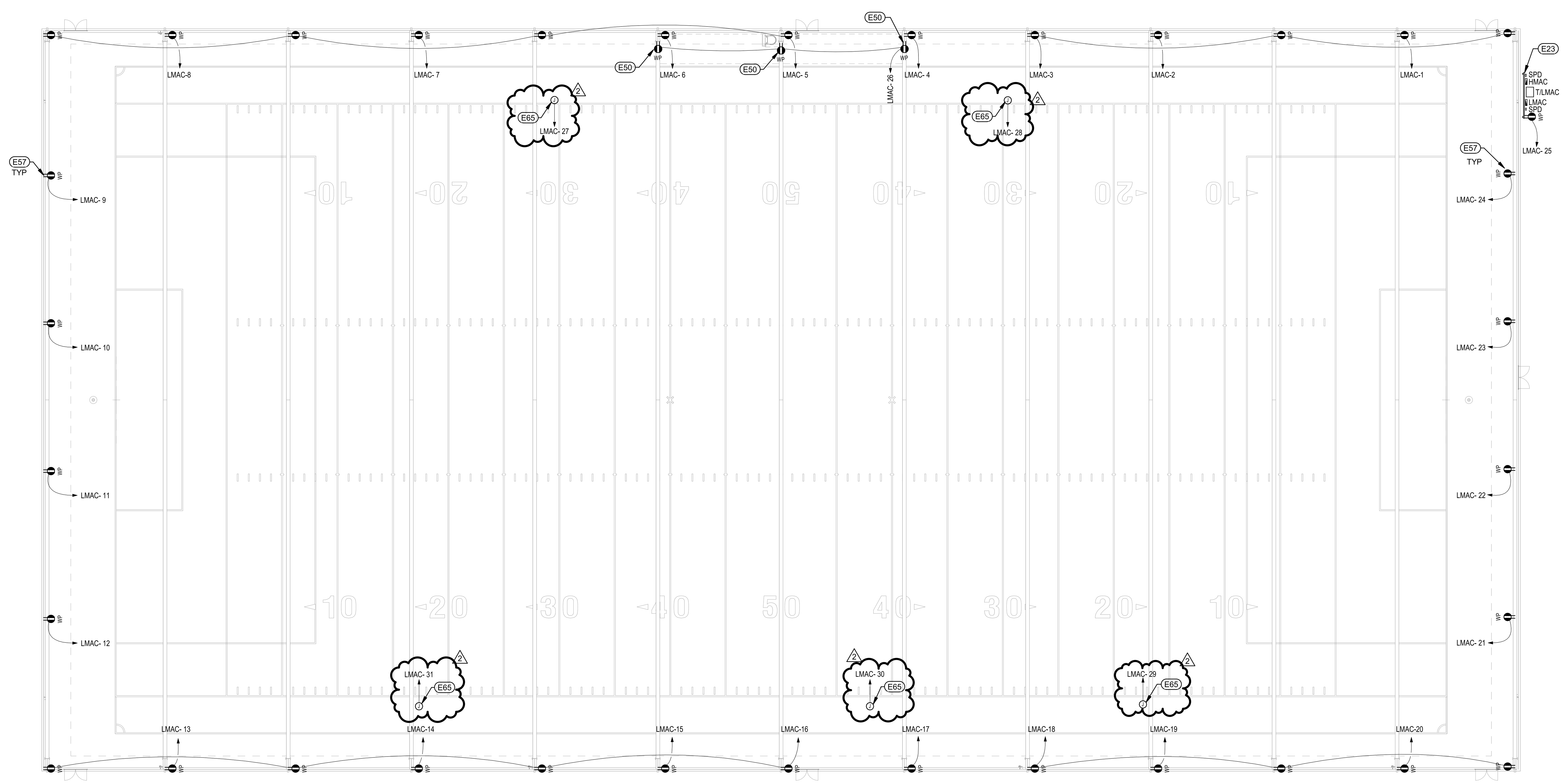
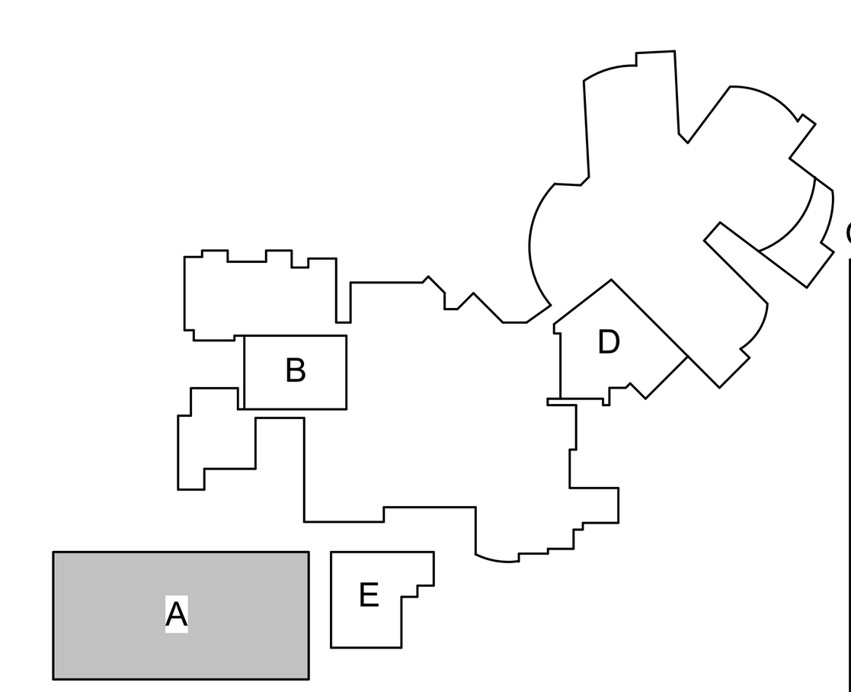
POWER KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

E23	PROVIDE A UNISTRUT RACK FOR MOUNTING OF PANELS AND SPD'S. VERTICAL SECTION TO BE 3" RIGID PIPE BURIED A MINIMUM OF 3 FEET DEEP AND POURED IN CONCRETE. COORDINATE FINAL RACK LOCATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. SPRAY PAINT ALL CUT ENDS OR EXPOSED THREAD WITH COLD GALVANIZED SPRAY PAINT.
E50	MOUNT RECEPTACLES AT CROWS NEST VIEWING PLATFORM AT STANDARD HEIGHT ABOVE PLATFORM.
E57	RECEPTACLES TO BE MOUNTED ON NEAREST FENCE POST. COORDINATE WITH FENCING FOR FINAL LOCATIONS.
2 E65	POWER FOR SPORTS NETTING MOTORS. COORDINATE INSTALLATION LOCATION AND ELECTRICAL CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT PROVIDED.



01 **FIRST FLOOR PLAN - AREA A - POWER**
SCALE: 1/16" = 1'-0"



KEY PLAN
NTS

TRUE
PLAN

Revision /	Date	
2	05/14/25	Addendum No.3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
B.J. HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO: 94813 ON: 04/22/2025

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FIRST FLOOR PLAN - AREA A - POWER

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID E3.01A1
Drawn By: PP	
Date: 04/22/2025	

5/14/2025 9:14:21 AM
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FOR LOCATIONS WHERE POWER AND DATA ARE SHOWN TOGETHER, DEVICE ROUGH-IN IS TO BE A MAXIMUM OF 6" APART. PROVIDE CADDY BRACKETS AS REQUIRED.

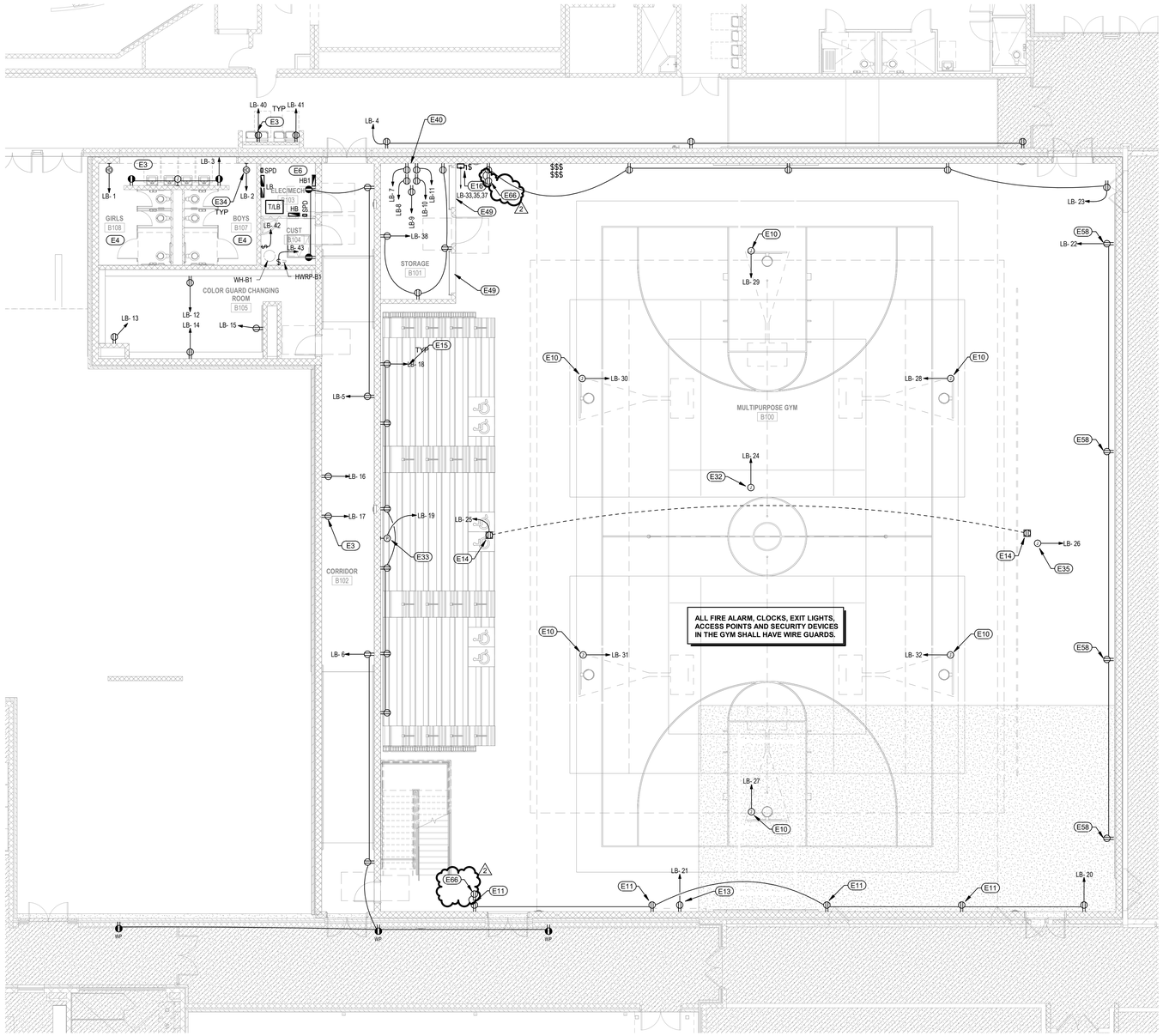
ALL 20A/1P RECEPTACLES INSTALLED AT AN ELEVATION LESS THAN 5'-6" AFF AND NOT WITHIN A DEDICATED APPLIANCE, SPACE SHALL BE A TAMPER RESISTANT RECEPTACLE PER NEC 406.12

REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS

POWER KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

E3	WASH FOUNTAIN / EWC POWER. RECEPTACLE FOR POWER BEHIND WASH FOUNTAIN OR EWC TO HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION.
E4	REFERENCE MECHANICAL FAN SCHEDULE FOR CONTROL OF EXHAUST FANS.
E6	ELECTRICAL PANELS. DO NOT RUN ANY PIPING OR DUCTWORK OVER ELECTRIC PANELS.
E10	RETRACTABLE BASKETBALL GOAL POWER FOR MOTORS. COORDINATE ALL FINAL REQUIREMENTS AND LOCATION WITH ACTUAL EQUIPMENT PROVIDED PRIOR TO ROUGH-IN. CONTROLLED BY WALL SWITCH.
E11	COORDINATE RECEPTACLE LOCATIONS WITH WALL PADS. MISS WALL PADS.
E13	COORDINATE SCOREBOARD POWER LOCATION WITH ARCHITECT.
E14	SCORER'S TABLE LOCATION. PROVIDE POWER AS SHOWN. REFERENCE TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION. COORDINATE ROUGH-IN LOCATION WITH ARCHITECT.
E15	MOUNT RECEPTACLES 24" ABOVE TOP OF BLEACHERS.
E16	RETRACTABLE BLEACHERS POWER FOR MOTORS. VERIFY ELECTRICAL REQUIREMENTS AND ROUGH-IN LOCATION WITH ACTUAL BLEACHERS BEING SUPPLIED.
E32	POWER AND SWITCH FOR PROJECTOR SCREEN. COORDINATE SWITCH LOCATION WITH TECHNOLOGY AND ARCHITECT PRIOR TO ROUGH-IN.
E33	POWER FOR PROJECTOR. COORDINATE ROUGH-IN LOCATION AND ELEVATION WITH TECHNOLOGY PLANS.
E34	POWER FOR FUTURE HAND DRYERS. STUB POWER IN J-BOX ABOVE THE CEILING WITH ACCESS PANEL. PROVIDE A LOCKING MECHANISM ON ALL BREAKERS SERVING HAND DRYERS PER NEC 422-31.
E35	POWER AND SWITCH FOR MOTORIZED PARTITION. COORDINATE ROUGH-IN LOCATION AND REQUIREMENTS WITH ACTUAL UNIT PROVIDED FOR MOTOR AND SWITCH.
E40	POWER FOR AV RACK. COORDINATE ROUGH-IN LOCATION AND REQUIREMENTS WITH TECHNOLOGY PLANS.
E49	MANUAL OVERHEAD DOOR.
E58	PROVIDE MIRROR FACE PLATES FOR THIS DEVICE. CUT RECEPTACLES INTO MIRROR. COORDINATE WITH ARCHITECTURAL.
2 E66	RECEPTACLE FOR NOVAERUS AIR PURIFICATION UNIT. REFERENCE NOTES ON SHEET E1.01 FOR ADDITIONAL INFORMATION INCLUDING REQUIRED DEVICE ELEVATION.



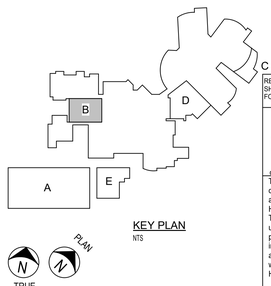
01 FIRST FLOOR PLAN - AREA B - POWER

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

Revision /	Date
2 Addendum No.3	05/14/25

Project:

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX



KEY PLAN
NTS

STATE OF TEXAS
B.J. HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO. 94813 ON 04/22/2025

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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HCE job no.: 24-034

FIRST FLOOR PLAN - AREA B - POWER

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID E3.01B1
Drawn By: PP	
Date: 04/22/2025	

5/14/2025 9:14:23 AM
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ELECTRICAL DEVICE MOCK-UP

ROUGH-IN ONE ENTIRE CLASSROOM FOR MOCK-UP APPROVAL. IN MOCK-UP, ROUGH-IN ALL DEVICES IN ROOM INCLUDING LIGHT SWITCHES, THERMOSTATS, F/A, RECEPTACLES, DATA, ETC. DO NOT ROUGH-IN ANY ADDITIONAL DEVICES UNTIL MOCK-UP IS APPROVED BY THE OWNER, ARCHITECT AND ENGINEER. ANY DEVICES THAT DON'T MEET APPROVED MOCK-UP LOCATIONS WILL BE REMOVED AND REINSTALLED IN CORRECT LOCATION AT CONTRACTOR'S EXPENSE.

FOR LOCATIONS WHERE POWER AND DATA ARE SHOWN TOGETHER, DEVICE ROUGH-IN IS TO BE A MAXIMUM OF 6" APART. PROVIDE CADDY BRACKETS AS REQUIRED.

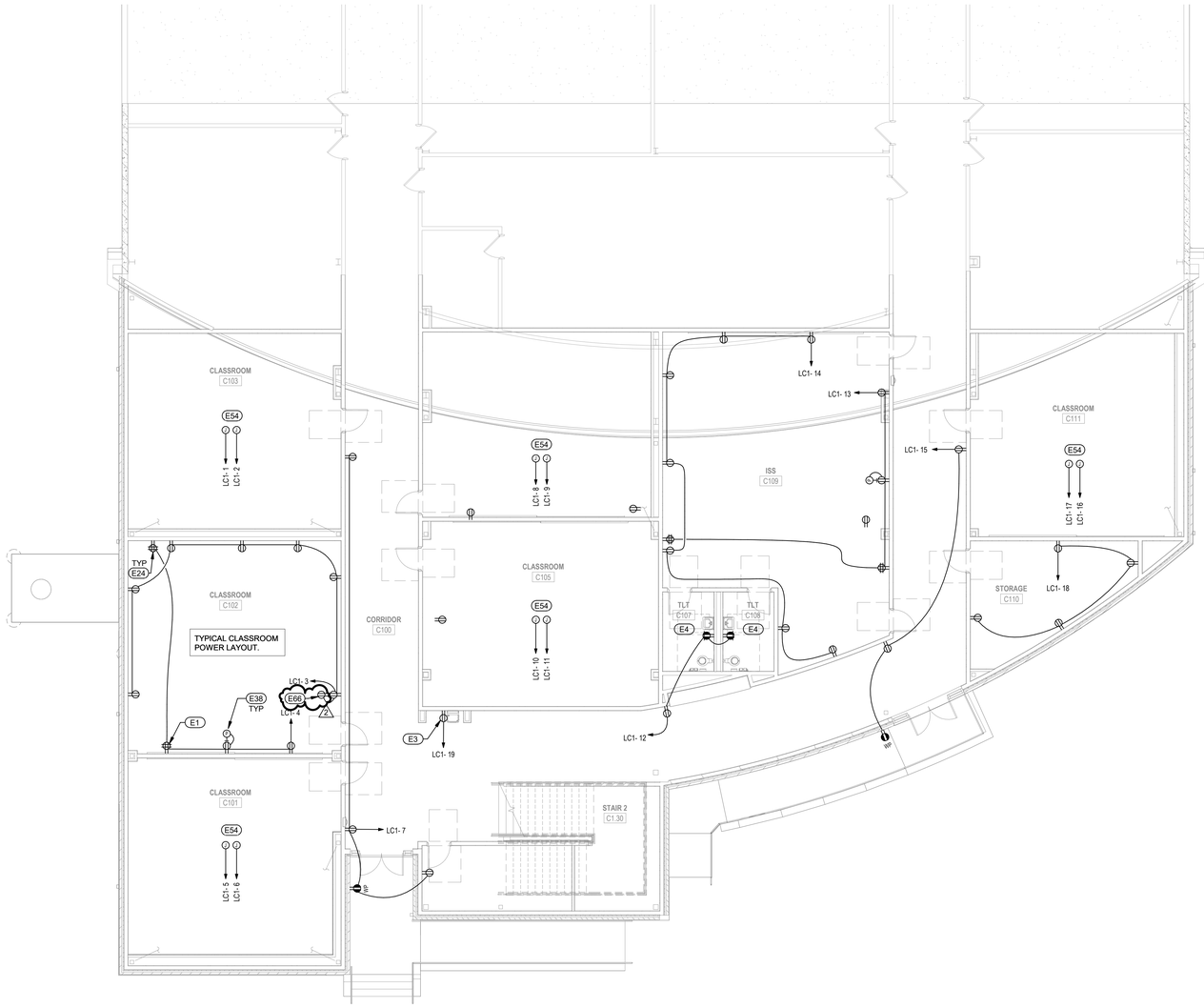
ALL 20A/1P RECEPTACLES INSTALLED AT AN ELEVATION LESS THAN 5'-6" AFF AND NOT WITHIN A DEDICATED APPLIANCE. SPACE SHALL BE A TAMPER RESISTANT RECEPTACLE PER NEC 406.12

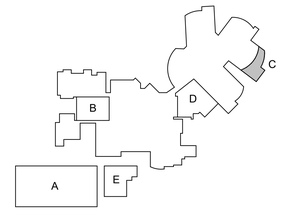
REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS

POWER KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

E1	RECEPTACLE FOR TEACHER'S DESK LOCATION. COORDINATE LOCATION WITH TECHNOLOGY PLANS TO BE LOCATED ADJACENT TO TEACHER AV CONTROLS. REFERENCE ELECTRICAL DEVICE MOCK-UP NOTE.
E3	WASH FOUNTAIN / EWC POWER. RECEPTACLE FOR POWER BEHIND WASH FOUNTAIN OR EWC TO HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION.
E4	REFERENCE MECHANICAL FAN SCHEDULE FOR CONTROL OF EXHAUST FANS.
E24	POWER FOR LIGHTSPEED SYSTEM MOUNTED IN UPPER CABINET FLUSH TO BACK OF CABINET, WHERE PRESENT. COORDINATE FINAL LOCATION WITH TECHNOLOGY PLANS 'AV1' LOCATIONS PRIOR TO ROUGH-IN.
E38	CONVENIENCE RECEPTACLE MOUNTED ON WALL AT STANDARD RECEPTACLE HEIGHT. PROJECTOR/TV RECEPTACLE MOUNTED HIGH IN WALL. COORDINATE PROJECTOR/TV RECEPTACLE LOCATION WITH TECHNOLOGY PLANS PRIOR TO ROUGH-IN.
E54	J-BOXES REPRESENT CIRCUITS ASSIGNED TO ROOM FOR RECEPTACLE POWER. REFERENCE TYPICAL CLASSROOM POWER LAYOUT (CLASSROOM C102, SHEET E3.1C1) FOR TYPICAL DEVICE LOCATIONS AND CIRCUITING REQUIREMENTS.
E66	RECEPTACLE FOR NOVAERUS AIR PURIFICATION UNIT. REFERENCE NOTES ON SHEET E1.01 FOR ADDITIONAL INFORMATION INCLUDING REQUIRED DEVICE ELEVATION.





KEY PLAN
NTS

N TRUE

PLAN N

01 FIRST FLOOR PLAN - AREA C - POWER

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

Revision / Date
2 / 05/14/25 Addendum No.3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
B.J. HENDRIX
94813
LICENSED PROFESSIONAL ENGINEER

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FIRST FLOOR PLAN - AREA C - POWER

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID E3.01C1
Drawn By: PP	
Date: 04/22/2025	

POWER KEY NOTES

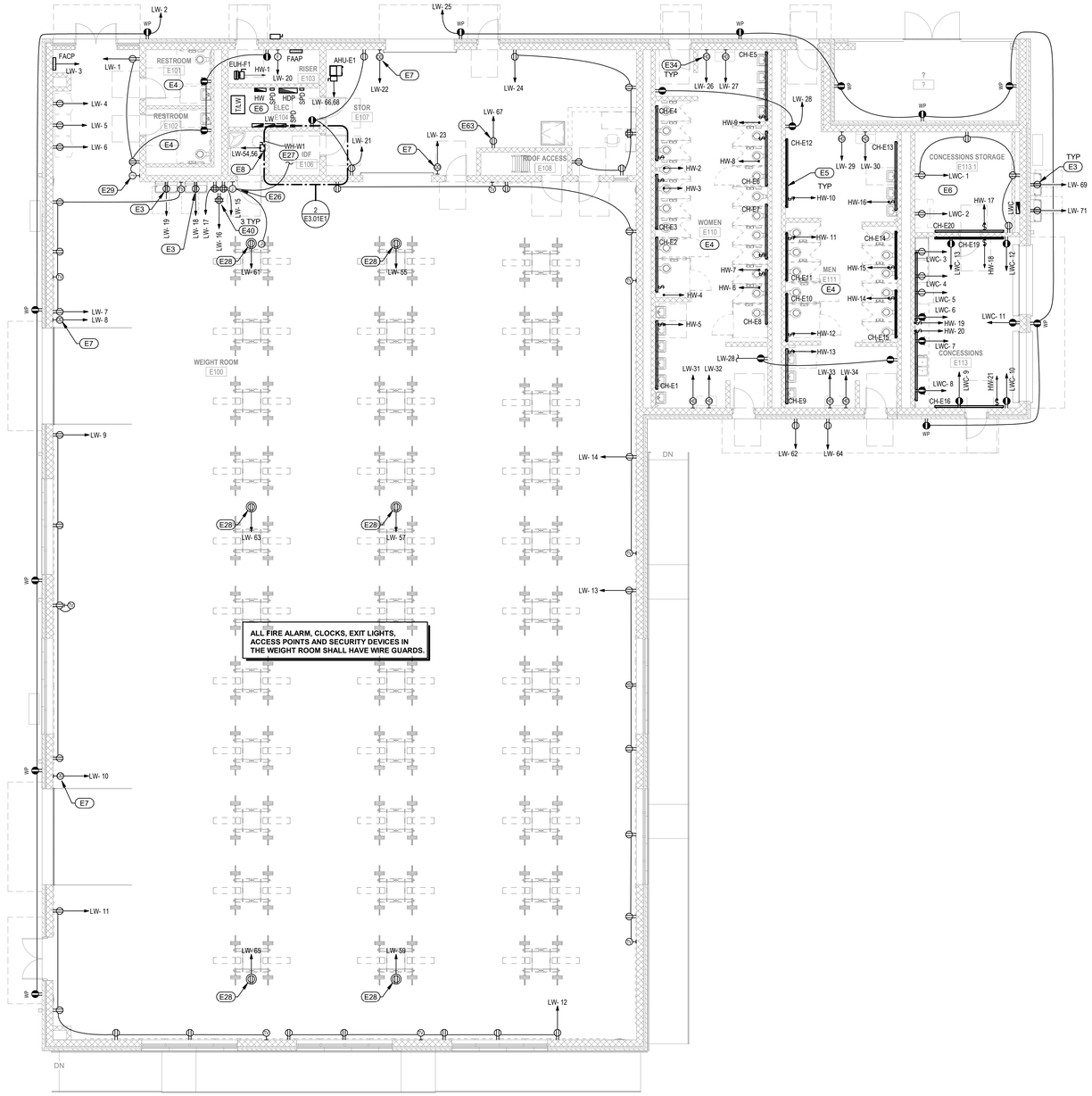
THESE NOTES APPLY TO THIS SHEET ONLY

E3	WASH FOUNTAIN / EWC POWER. RECEPTACLE FOR POWER BEHIND WASH FOUNTAIN OR EWC TO HAVE GFCI BREAKER AT PANEL. COORDINATE FINAL ROUGH-IN LOCATION.
E4	REFERENCE MECHANICAL FAN SCHEDULE FOR CONTROL OF EXHAUST FANS.
E5	COVE HEATERS. COORDINATE ALL POWER REQUIREMENTS AND LOCATIONS WITH MECHANICAL CONTRACTOR.
E6	ELECTRICAL PANELS. DO NOT RUN ANY PIPING OR DUCTWORK OVER ELECTRIC PANELS.
E7	POWER FOR OVERHEAD DOOR. REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
E8	FIELD COORDINATE PLACEMENT OF DISCONNECTING MEANS FOR WATER HEATERS AND RE-CIRCULATING PUMP.
E26	FUTURE RACK LIGHTING CONTROL WALL PANEL APPROXIMATE LOCATION. PROVIDE 3/4"C TO CEILING MOUNTED J-BOX FOR RACK LIGHTING CONTROL. COORDINATE FINAL WALL PANEL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
E27	PROVIDE 3/4"C DATA FROM J-BOX TO FUTURE LIGHTING CONTROLLER IN IDF ROOM.
E28	POWER FOR FUTURE GYM EQUIPMENT LIGHTING.
E29	POWER FOR HVLS FAN CONTROLLER. PROVIDE SNAP SWITCH AND 120V TO 12V DC TRANSFORMER ABOVE CEILING WITH 3/4"C DOWN WALL TO J-BOX FOR MOUNTING FAN CONTROLLER.
E34	POWER FOR FUTURE HAND DRYERS. STUB POWER IN J-BOX ABOVE THE CEILING WITH ACCESS PANEL. PROVIDE A LOCKING MECHANISM ON ALL BREAKERS SERVING HAND DRYERS PER NEC 422-31.
E36	JUNCTION BOX ABOVE CEILING WITH CIRCUIT FOR FUTURE USE.
E40	POWER FOR AV RACK. COORDINATE ROUGH-IN LOCATION AND REQUIREMENTS WITH TECHNOLOGY PLANS.
E63	APPROXIMATE LOCATION FOR ICE MACHINE. COORDINATE FINAL ICE MACHINE POWER LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

FOR LOCATIONS WHERE POWER AND DATA ARE SHOWN TOGETHER, DEVICE ROUGH-IN IS TO BE A MAXIMUM OF 6" APART. PROVIDE CADDY BRACKETS AS REQUIRED.

ALL 20A/1P RECEPTACLES INSTALLED AT AN ELEVATION LESS THAN 5'-6" AFF AND NOT WITHIN A DEDICATED APPLIANCE. SPACE SHALL BE A TAMPER RESISTANT RECEPTACLE PER NEC 406.12

REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS



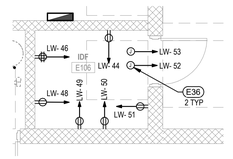
01 FIRST FLOOR PLAN - AREA E - POWER

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

CONFIRM FINAL LAYOUT AND POWER REQUIREMENTS WITH TECHNOLOGY PRIOR TO ROUGH-IN.

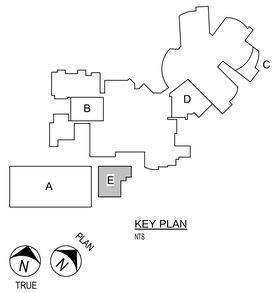
GENERAL CONTRACTOR TO PROVIDE SHOP DRAWING SHOWING ROOM LAYOUT OF ALL SPECIAL SYSTEMS EQUIPMENT PANELS INCLUDING FIRE ALARM, DDC, ACCESS CONTROL, SECURITY, VIDEO, ETC PRIOR TO INSTALLATION OF ANY ROUGH-IN FOR ELECTRICAL, TECHNOLOGY, AND OWNER APPROVAL.

2



02 ENLARGED IDF PLAN - POWER

SCALE: 1/4" = 1'-0"



Revision /	Date
2 Addendum No.3	05/14/25

Project:

LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
B.J. HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER

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FIRST FLOOR PLAN - AREA E - POWER

PACKAGE	VOLUME
Job No. 01954-08-01	Sheet No. ISSUE FOR BID E3.01E1
Drawn By: PP	
Date: 04/22/2025	

5/14/2025 9:14:31 AM

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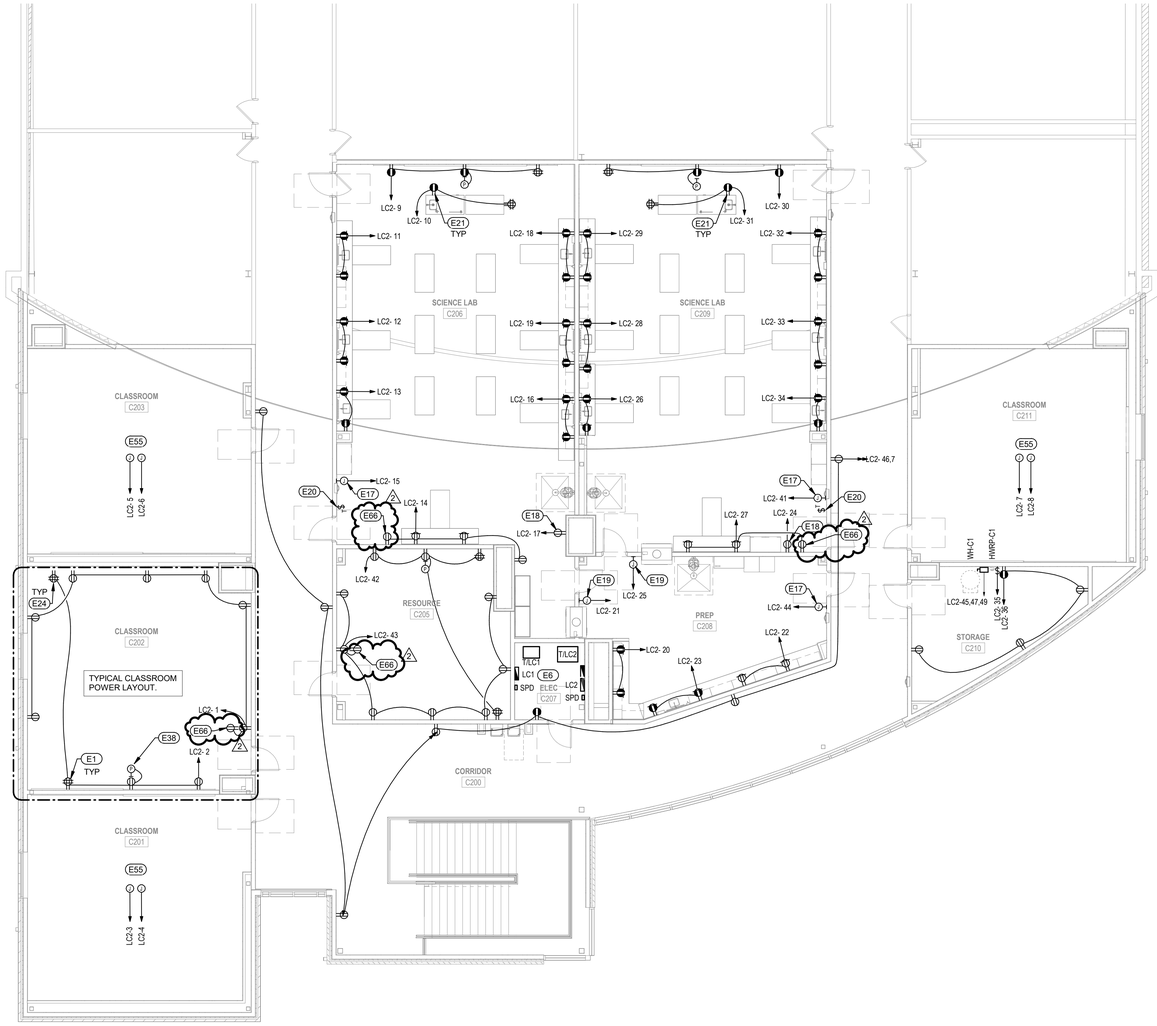
ELECTRICAL DEVICE MOCK-UP

ROUGH-IN ONE ENTIRE CLASSROOM FOR MOCK-UP APPROVAL. IN MOCK-UP, ROUGH-IN ALL DEVICES IN ROOM INCLUDING LIGHT SWITCHES, THERMOSTATS, F/A, RECEPTACLES, DATA, ETC. DO NOT ROUGH-IN ANY ADDITIONAL DEVICES UNTIL MOCK-UP IS APPROVED BY THE OWNER, ARCHITECT AND ENGINEER. ANY DEVICES THAT DON'T MEET APPROVED MOCK-UP LOCATIONS WILL BE REMOVED AND REINSTALLED IN CORRECT LOCATION AT CONTRACTOR'S EXPENSE.

FOR LOCATIONS WHERE POWER AND DATA ARE SHOWN TOGETHER, DEVICE ROUGH-IN IS TO BE A MAXIMUM OF 6" APART. PROVIDE CADDY BRACKETS AS REQUIRED.

ALL 20A/1P RECEPTACLES INSTALLED AT AN ELEVATION LESS THAN 5'-6" AFF AND NOT WITHIN A DEDICATED APPLIANCE SPACE SHALL BE A TAMPER RESISTANT RECEPTACLE PER NEC 406.12

REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS



01 SECOND FLOOR PLAN - AREA C - POWER

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

POWER KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

E1	RECEPTACLE FOR TEACHER'S DESK LOCATION. COORDINATE LOCATION WITH TECHNOLOGY PLANS TO BE LOCATED ADJACENT TO TEACHER AV CONTROLS. REFERENCE ELECTRICAL DEVICE MOCK-UP NOTE.
E6	ELECTRICAL PANELS. DO NOT RUN ANY PIPING OR DUCTWORK OVER ELECTRIC PANELS.
E17	SCIENCE UTILITY CONTROLLER. REFERENCE SCHEDULE SHEETS FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION WITH ARCHITECTURAL MILLWORK DRAWINGS.
E18	GOGGLE CABINET. COORDINATE FINAL LOCATION WITH ARCHITECTURAL MILLWORK DRAWINGS AND FINAL RECEPTACLE LOCATION WITH ACTUAL GOGGLE CABINET BEING PROVIDED.
E19	FUME HOOD POWER. COORDINATE CONTROL WITH MECHANICAL PLANS AND CONTRACTOR.
E20	SPRING WOUND TIMER FOR EXHAUST CONTROL. COORDINATE WITH EXHAUST FAN SCHEDULE ON MECHANICAL PLANS.
E21	SCIENCE MILLWORK POWER. COORDINATE DEVICE QUANTITY AND LOCATION WITH MILLWORK BEING PROVIDED. CIRCUIT AS SHOWN. MC CABLE ALLOWED INSIDE ISLAND MILLWORK.
E24	POWER FOR LIGHTSPEED SYSTEM MOUNTED IN UPPER CABINET FLUSH TO BACK OF CABINET, WHERE PRESENT. COORDINATE FINAL LOCATION WITH TECHNOLOGY PLANS 'AV1' LOCATIONS PRIOR TO ROUGH-IN.
E38	CONVENIENCE RECEPTACLE MOUNTED ON WALL AT STANDARD RECEPTACLE HEIGHT. PROJECTOR/TV RECEPTACLE MOUNTED HIGH IN WALL. COORDINATE PROJECTOR/TV RECEPTACLE LOCATION WITH TECHNOLOGY PLANS PRIOR TO ROUGH-IN.
E55	J-BOXES REPRESENT CIRCUITS ASSIGNED TO ROOM FOR RECEPTACLE POWER. REFERENCE TYPICAL CLASSROOM POWER LAYOUT (CLASSROOM C202, SHEET E3.2C2) FOR TYPICAL DEVICE LOCATIONS AND CIRCUITING REQUIREMENTS.
E66	RECEPTACLE FOR NOVAERUS AIR PURIFICATION UNIT. REFERENCE NOTES ON SHEET E1.01 FOR ADDITIONAL INFORMATION INCLUDING REQUIRED DEVICE ELEVATION.

SCIENCE ROOM UTILITY CONTROLLER

MANUFACTURERS:
ISIMET UTILITY CONTROLLER AND E-SERIES ENCLOSURE - (210) 654-8015 or
AMERICAN GAS SAFETY (AGS) - (512-845-3528)
LAB SAFETY SYSTEMS UTILITY CONTROLLERS - (512-845-3528) or
LAB AUTOMATED CONTROL SYSTEMS BY E&I (713-391-4293)

UTILITY CONTROLLER AND SOLENOID ENCLOSURE TO BE PROVIDED BY THE SAME MANUFACTURER. GENERAL CONTRACTOR TO PROVIDE COMPLETE SUBMITTAL FOR ENTIRE SYSTEM WITH PLUMBING AND ELECTRICAL COMPONENTS. A PIECE-MEAL SUBMITTAL WILL NOT BE ACCEPTED.

1. ELECTRICAL CONTRACTOR: PROVIDE A UTILITY CONTROLLER (1000 SERIES 12X9) AND E-SERIES (E3112-EX) CONTACTOR ENCLOSURE FOR EMERGENCY SHUT-OFF OF POWER (RECEPTACLES), COLD WATER, TEMPERED WATER AND GAS AS REQUIRED (VERIFY EXACT UTILITIES REQUIRED IN EACH INDIVIDUAL ROOM WITH PLUMBING CONTRACTOR). PROVIDE INDIVIDUAL CONTROL SWITCH FOR CW/HW/GAS/RECEPTACLES. EXHAUST FANS FOR HOODS TO BE CONTROLLED FROM UTILITY CONTROLLER WITH KEY SWITCH TO ENABLE FAN SWITCH ON HOOD. CONTACTOR ENCLOSURES TO BE MOUNTED ABOVE CEILING. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL UTILITY CONTROLLER AND E-SERIES CONTACTOR ENCLOSURE AND PROVIDE ALL 120 VOLT WIRING AND 24V WIRING BETWEEN CONTROLLER, CONTACTOR ENCLOSURE AND EQUIPMENT. PROVIDE CONTACTOR ENCLOSURES FOR (12) TWELVE CIRCUITS. ELECTRICAL CONTRACTOR TO ALSO PROVIDE 24 VOLT CONTROL WIRING BETWEEN UTILITY CONTROLLER AND S-SERIES SOLENOID ENCLOSURE. INNER CONNECT WITH FACP TO SHUT DOWN SERVICES. COORDINATE WITH FIRE ALARM CONTRACTOR.
2. PLUMBING CONTRACTOR: PROVIDE PRE-ASSEMBLED S-SERIES (S-3113-24VAC-X-K-F-R-A-U) SOLENOID ENCLOSURE WITH ALL CONTACTS RESET SOLENOID AND INTERFACE RELAYS FOR EACH SCIENCE ROOM FOR EMERGENCY SHUT-OFF OF COLD WATER, TEMPERED WATER AND GAS. EACH SOLENOID TO BE ASSEMBLED WITH THREADED BALL VALVE, UNIONS, "Y" STRAINERS, SHOCK ARRESTOR, AND CAPPED ENDS FOR FIELD INSTALLATION. ENCLOSURE SHALL BE NEMA 1, SURFACE MOUNT ABOVE CEILING. FIELD VERIFY EXACT MOUNTING ARRANGEMENT. VERIFY EXACT UTILITIES REQUIRED IN EACH INDIVIDUAL ROOM.
3. ELECTRICAL AND PLUMBING CONTRACTOR TO COORDINATE ALL REQUIREMENTS TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
4. PROVIDE FACTORY START-UP WITH PLUMBING AND ELECTRICAL CONTRACTOR PRESENT AND SIGNED START-UP CERTIFICATE.
5. WHEN EMERGENCY BUTTON IS DEPRESSED, POWER IS SHUT OFF TO ALL ANCILLARY DEVICES.
6. ROOM EXHAUST CONTROLLED SEPARATELY BY TIMER SWITCH ON WALL PROVIDED BY ELECTRICAL CONTRACTOR.
7. COORDINATE WITH BUILDING B.M.S. SYSTEM AS REQUIRED FOR DAILY SHUT-DOWN SIGNAL.

Revision / 2 — Date 05/14/25 — Addendum No.3

Project:
LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

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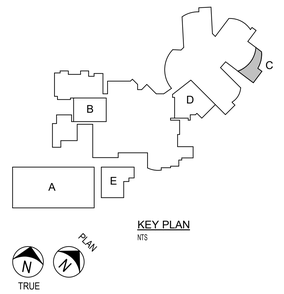

REFERENCE GENERAL NOTES ON SHEETS M0.01, P0.01, AND E0.01 FOR ADDITIONAL INFORMATION

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SECOND FLOOR PLAN - AREA C - POWER

PACKAGE — VOLUME

Job No. 01954-08-01
Drawn By: PP
Date: 04/22/2025
Sheet No. ISSUE FOR BID
E3.02C2

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POWER KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

E56	COORDINATE DISCONNECT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. REFERENCE DISCONNECT SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR ALL DISCONNECT SWITCHES.
E60	EQUIPMENT MAINTENANCE RECEPTACLE. CIRCUIT TO NEAREST CONVENIENCE RECEPTACLE CIRCUIT BELOW, MAXIMUM 7 RECEPTACLES PER CIRCUIT.
E61	CIRCUIT TO EXISTING 480V/3P HVAC PANEL IN AREA. REFER TO ROOFTOP ELECTRICAL CONNECTION SCHEDULE FOR CIRCUITING REQUIREMENTS.
E62	EXISTING UNIT TO REMAIN.

ROOF ELECTRICAL NOTES

A. DISCONNECTS TO BE MOUNTED TO MECHANICAL UNITS. COORDINATE PLACEMENT OF DISCONNECTS WITH MECHANICAL CONTRACTOR. DO NOT BLOCK ANY ACCESS DOORS WITH DISCONNECTS.

B. FIELD COORDINATE PLACEMENT AND MOUNTING REQUIREMENTS OF SERVICE RECEPTACLES. PLACE RECEPTACLES WITHIN 25' OF ALL EQUIPMENT.

C. REFERENCE MECHANICAL EXHAUST FAN SCHEDULE FOR CONTROL REQUIREMENTS OF FANS.

D. COORDINATE MOUNTING OF ROOF MOUNTED PANELS WITH DETAILS ON DETAIL SHEET(S).

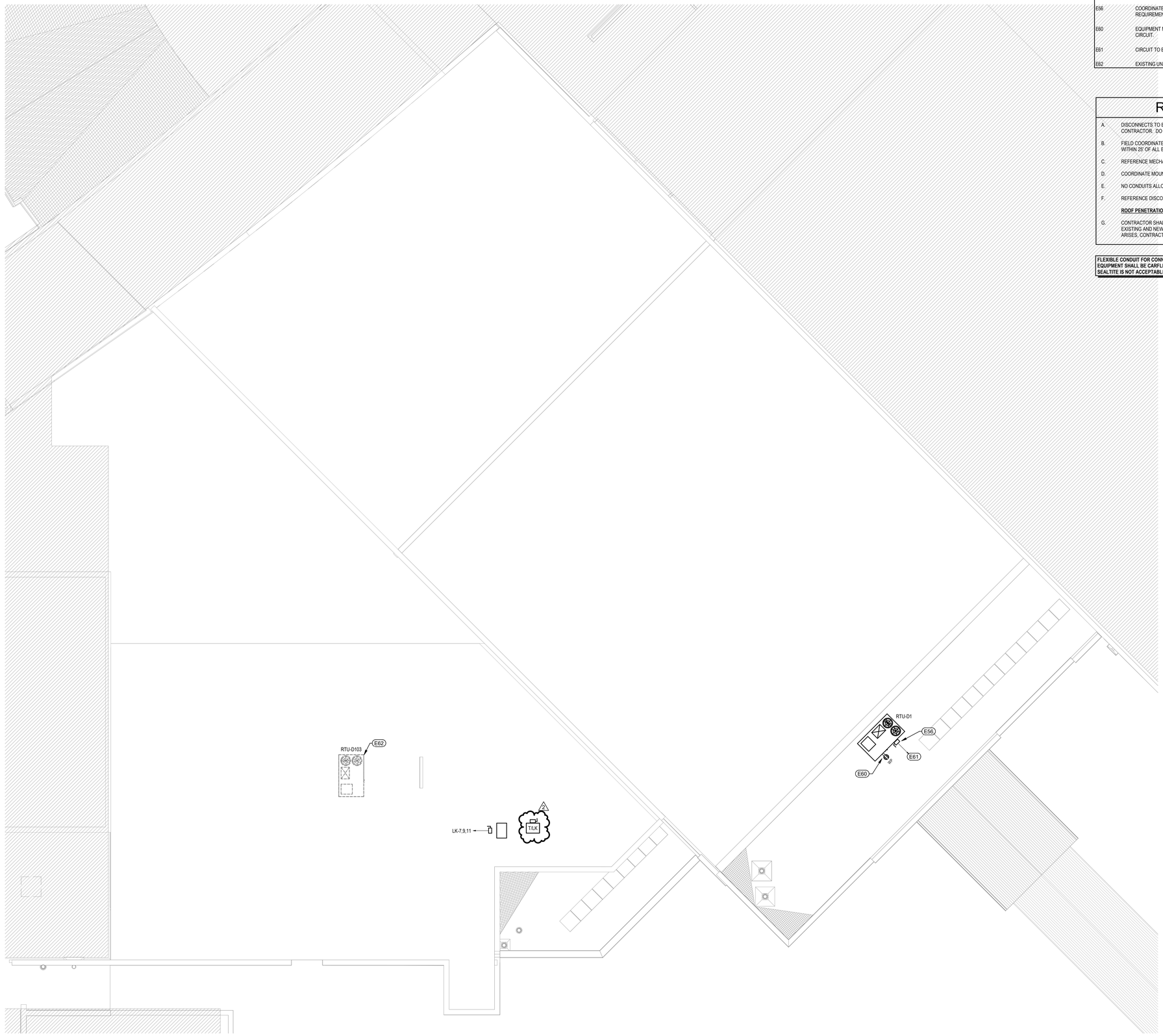
E. NO CONDUITS ALLOWED TO BE RUN BETWEEN PANEL AND RTU ON ROOF. MUST BE RUN UNDER ROOFDECK.

F. REFERENCE DISCONNECT SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR ALL DISCONNECT SWITCHES.

ROOF PENETRATION NOTE:

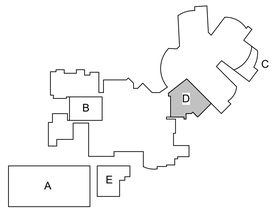
G. CONTRACTOR SHALL COORDINATE TO PROVIDE A MINIMUM 2'-0" CLEARANCE AROUND ANY NEW PENETRATIONS WITH EXISTING AND NEW PENETRATIONS AND WALLS AS REQUIRED FOR THE PROJECT. IF CONFLICT WITH THIS REQUIREMENT ARISES, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ARCHITECT/ENGINEER.

FLEXIBLE CONDUIT FOR CONNECTIONS TO EQUIPMENT SHALL BE CARFLEX ONLY. SEALTITE IS NOT ACCEPTABLE.



01 ROOF PLAN - AREA D - POWER

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



KEY PLAN
NTS

TRUE

PLAN

Revision / 2 — Date 05/14/25 — Addendum No.3

Project: LEHMAN HIGH SCHOOL
2025 ADDITIONS + RENOVATIONS
FOR
HAYS CISD
KYLE, TX

STATE OF TEXAS
B.J. HENDRIX
94813
LICENSED
PROFESSIONAL ENGINEER

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ROOF PLAN - AREA D - POWER

PACKAGE	VOLUME
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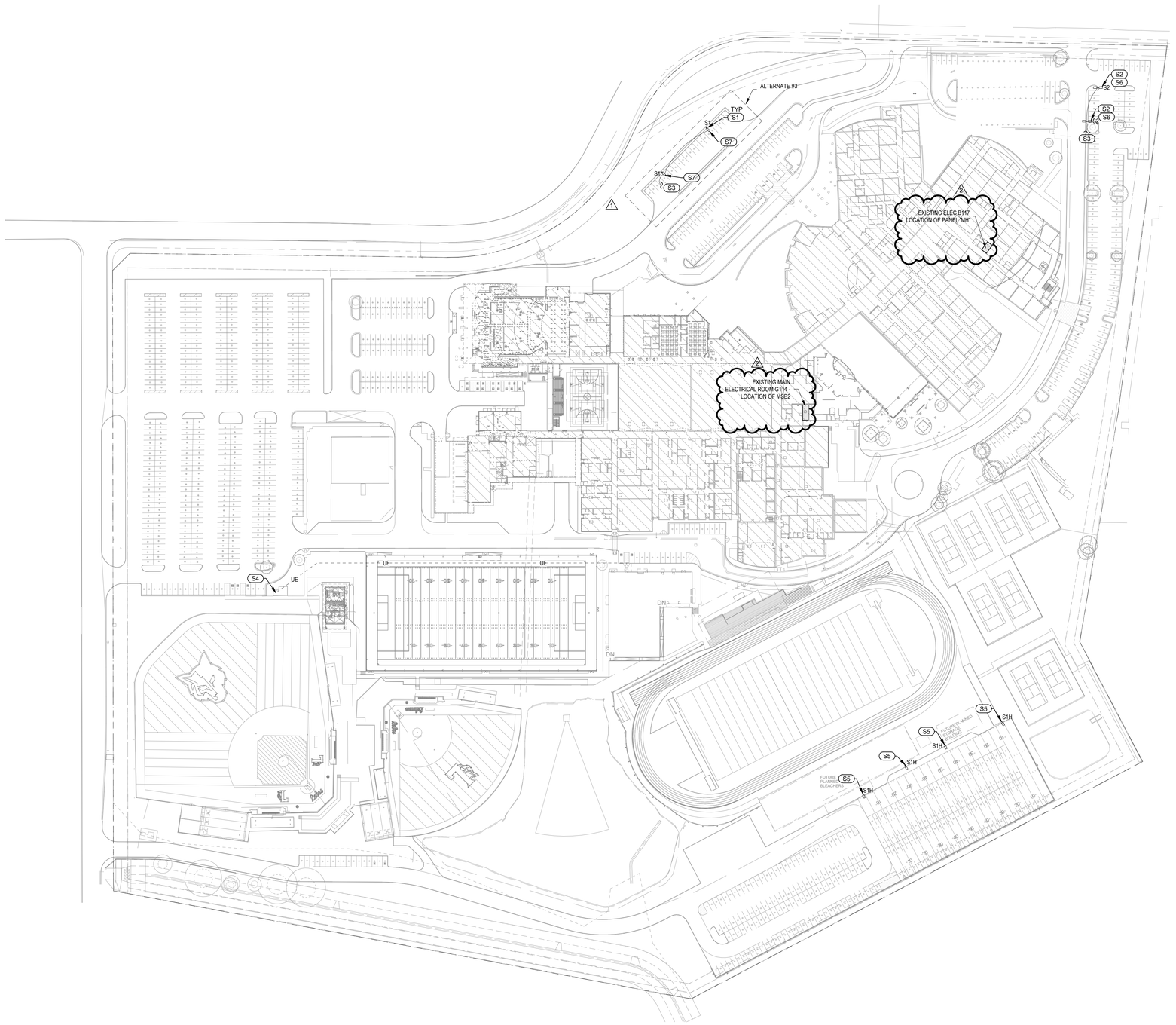
SITE KEY NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

S1	COORDINATE FINAL POLE LIGHT LOCATIONS WITH CIVIL AND LANDSCAPE CONSULTANTS PRIOR TO DRILLING PIERS. REFERENCE STRUCTURAL ENGINEER FOR STRUCTURAL POLE BASE DETAILS.
S2	EXISTING UNDERGROUND PRIMARY IN AREA. CONTRACTOR TO FIELD VERIFY EXISTING ROUTING AND ADVISE ENGINEER IF NEW POLE LOCATIONS ARE IN CONFLICT WITH EXISTING UNDERGROUND ELECTRICAL.
S3	EXTEND EXISTING SITE LIGHTING CIRCUIT FROM NEAREST SITE LIGHT IN AREA TO NEW FIXTURES. FIELD COORDINATE AS REQUIRED.
S4	EXISTING BASEBALL/SOFTBALL SPORTS COMPLEX ELECTRICAL SERVICE YARD.
S5	REPLACE EXISTING 30' POLE 'S1' FIXTURE WITH 40' POLE AND TYPE S1H FIXTURE. 'S1' FIXTURE TO BE USED AT NEW POLE LOCATIONS AT NORTH OF SITE. USE EXISTING CIRCUITING.
S6	USE POLE AND HEAD REMOVED FROM BAND PRACTICE AREA. DRILL EXISTING POLE FOR NEW HEAD AND PROVIDE ADDITIONAL HEAD AS SPECIFIED.
S7	USE POLE AND HEAD REMOVED FROM BAND PRACTICE AREA. AT THIS LOCATION.



ALL SITE CIRCUITING IS DIAGRAMMATIC ONLY. DOES NOT INDICATE CONDUIT ROUTING. ELECTRICAL CONTRACTOR IS TO DETERMINE ALL FINAL CONDUIT ROUTING, COORDINATED WITH ALL SITE UTILITIES AND SITE CONDITIONS. REFERENCE CIVIL AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION. ALL BURIED ELECTRICAL TO BE INSTALLED WITH WARNING TAPE ABOVE THE CONDUIT.

01 **SITE PLAN - ELECTRICAL**
SCALE: 1" = 80'-0"

TRUE NORTH

Revision /	Date	
1	05/08/25	Addendum No. 1
2	05/14/25	Addendum No. 3

Project:
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KYLE, TX

STATE OF TEXAS
B. HENDRIX
94813
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PROFESSIONAL ENGINEER

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SITE PLAN - ELECTRICAL

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Job No. 01954-08-01	Sheet No. ES1.00
Drawn By: PP	ISSUE FOR BID
Date: 04/22/2025	