

## **January 6, 2025**

## SCHOOL TOWN OF HIGHLAND - RTU'S AND CHILLER REPLACEMENT PROJECT Highland, IN 46322

## **TO: ALL BIDDERS OF RECORD**

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated December 11, 2024, by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Proposal Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Page ADD 1-1 and attached Addendum No. 1 from Schmidt Associates dated January 6, 2025 consisting of 2 pages and 8 Drawings.

# **ADDENDUM NO. 1 JANUARY 6, 2025**

## PREPARED BY SCHMIDT ASSOCIATES FOR: **HVAC 2023 PROJECT HIGHLAND, SCHOOL TOWN OF**

This Addendum consists of 2 Addendum pages and 8 attachment pages totaling 10 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disgualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

## PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

## PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

### 2.1 **DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)**

## A. Section 230900.99 "DIRECT DIGITAL CONTROL SYSTEMS"

1. DELETE AND REPLACE Text within 1.7.A Table as follows:

"Alerton Controls installed by Open Control Systems is the only approved control system manufacturer and product lines"

## **PART 3 - CHANGES TO THE DRAWINGS**

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain unchanged.

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INDICATE ACTION: ADD (A), DELETE (D),
DELETE & REPLACE (R),
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DELETE AND REPLACE
DELETE AND REPLACE

## 2 1 DRAWING SHEETS' ADDITIONS DELETIONS AND REPLACEMENTS

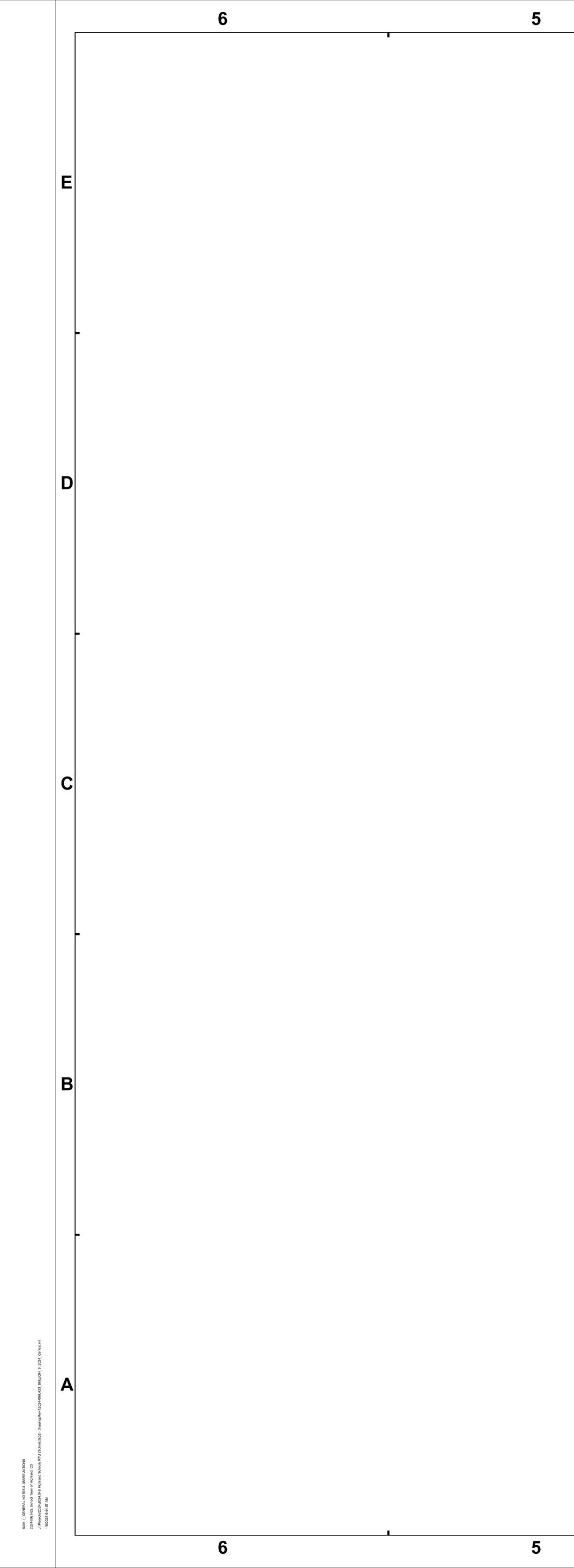
S100.2	DELETE AND REPLACE
S001.3	DELETE AND REPLACE
S100.3	DELETE AND REPLACE
M-SERIES DRAWINGS	
MR101.3	DELETE AND REPLACE
M-401.4	DELETE AND REPLACE

## END OF ADDENDUM 1

## AVAILABLE PROJECT INFORMATION

The following information is being made available to Bidders for informational purposes only and is not a part of the Addendum.

- A. Questions and Answers:
  - Question: Roof protection railings, there are no details provided, what type do they want 2-line rail, galvanized and/or pre-engineered railing systems?
     Answer: Anchoring design to be delegated to pre-engineered handrail manufacturer per OSHA requirements.
  - 2. Question: How should the railing attach to the roof? Answer: Anchoring design to be delegated to pre-engineered handrail manufacturer per OSHA requirements.
  - Question: What length should we include at each location, maybe the architect/engineer can indicate this on the individual roof plans?
    Answer: Extend beyond the length of equipment to meet OSHA requirements.



All structural steel shall conform to the following: ASTM A992, Grade 50. W Shapes Angles, Channels, Plates, Bars ASTM A36 (Fy=36 ksi) HSS Tubes ASTM A500, Grade C (Fy=50 ksi) All steel shall be detailed, fabricated and erected in accordance with: AISC 360 "Specification for Structural Steel Buildings", Allowable Strength Design (ASD) AISC 303 "Code of Standard Practice" All bolted connections shall be made with 3/4" diameter, A325 bolts with nuts and washers, unless otherwise noted. All connections shall be shear bearing connections tightened to snug-tight condition, unless otherwise noted. All shop and field welds shall be made using E70 electrodes or equivalent. Splices shall be allowed only at locations specifically indicated on the structural drawings unless approved otherwise by the SER in writting. For steel members and embedments exposed to weather, provide hot-dipped galvanized finish, uno. Field modification of structural steel is prohibited without prior approval of the architect and structural engineer. Steel fabricator shall obtain the size and location of all openings for grilles, louvers, etc. before proceeding with the fabrication and erection of any required frames. 052100 STEEL JOIST NOTES During the reinforcing process, the heat generated from welding can reduce the capacity of the existing joists. Therefore the existing joists shall be temporarily shored and/or the existing RTUs shall be removed prior to and during reinforcing.

Do not damage existing joists or bridging during the installation of joist reinforcing or RTU support frames. Prepare existing joists to receive weld per current AISC and AWS standards. Repair paint or primer at weld locations to match existing conditions. Where joist reinforcing and/or RTU support framing are exposed in the final condition, paint to match existing condition.

## **GENERAL NOTES**

As used in these General Notes:
"Drawings" means the latest structural design drawings, uno.
"Specifications" means the latest project specifications, uno.
"Contract Documents" is defined as the design drawings and the specifications.
"SER" is defined as the structural engineer of record for the structure in its final condition.
"Design Professionals" is defined as the owner's architect

"MEP" includes, but is not limted to Mechanical, Electrical, Plumbing, Fire Protection. "Contractor" is defined to include any of the following: General Contractor and their Subcontractors, Construction Manager and their Subcontractors, Structural Steel Fabricator or Structural Steel Erector. "Base Building Structure" is defined as the structural frame desinged by JQOL Global LLC. "Structure in its final condition" means all structural elements shown on the structural

contract documents are installed and completely connected and inspected with no outstanding non-comliance issues. The Contractor is solely responsible for the stability of the structure until the construction of

the structure reaches its final condition.

The Contractor is responsible for coordination of the Structural work with the Architectural, Civil, MEP contract documents, as well as any other applicable trades. The architectural, mechanical, electrical and plumbing aspects are not in the scope of these drawings. Therefore, all required materials and work may not be indicated. Refer to architectural drawings for all dimensions not shown on these drawings. Locations, sizes and numbers of all openings may not be completely indicated in the structural drawings. The respective contractor shall verify their work with all other disciplines.

The contractor is solely responsible for the design, installation, and removal of temporary bracing and construction supports, for new and existing structures, as necessary to complete the project. No portion of the project while under construction is intended to be stable in the absence of the contractor's temporary supports and braces. Contractor shall retain a structural engineer licensed in the state in which the project is located to design temporary bracing and construction supports.

The contract documents represent the structure only. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not limited to, bracing, shoring, underpinning, etc. the Engineer of Record is not responsible for the contractor's means, methods, techniques, sequences or safety procedures during construction.

The contractor shall verify all existing dimensions and conditions and coordinate with the structural drawings, architectural drawings, drawings from other consultants, project shop drawings and field conditions.

Apply details, sections, and notes on the drawings where conditions are similar to those indicated by detail, detail title or note.

Only use dimensions indicated on the drawings. Do not scale drawings.

Assume equal spacing between established dimensions, if not indicated on drawings. The contractor shall verify that construction loads do not exceed the capacity of the structure at the time the load is applied.

Reactions and forces indicated are unfactored, Allowable Strength Design (ASD) loads. If Drawings and specifications are in conflict, the most stringent restrictions and

requirements shall govern. Notes and details shall take precedence over general structural notes. Where no details or sections are shown, construction shall conform to similar work on the project. Typical sections and details may not be cut on the plans, but apply unless noted otherwise. Verify all existing conditions prior to any construction or fabrication. If different than shown,

notify engineer/architect immediately for modification of drawings.

# **CODES AND DESIGN CRITERIA**

Indiana Buildir ASCE 7-10 AISC 360-10	ng Code 2014 ASD	Code
<u>Dead</u> 14 psf	<u>Live</u> 20 psf	<u>Snow</u> 23.1 psf
•	20 001	20.1 por
v bolot con weight		
30 psf		
23.1 psf		
22 psf		
1.1		
1.0	Partially	
1.0	Heated	
1.0		
	Indiana Buildin ASCE 7-10 AISC 360-10 / TMS 402/602- III <u>Dead</u> 14 psf + Joist Self-weight 30 psf 23.1 psf 22 psf 1.1 1.0 1.0	AISC 360-10 ASD TMS 402/602-11 III <u>Dead</u> Live 14 psf 20 psf + Joist Self-weight 30 psf 23.1 psf 22 psf 1.1 1.0 Partially 1.0 Heated

# 051200 STRUCTURAL STEEL NOTES

**ABBREVIATIONS LIST** 

BLDG

CLR

EW

EXIST

EXP EXT

FDN

FIN

FLR

FLG

FS

FTG

FV GA

GALV

GB

GC

GL

HC

HD

HGT

| HK HORIZ

HP

HS

HSS

INFO

INT

INV

JST

КО

LB

LDG

LG

LLH LLV

LNTL

LONG

I LSL

LP

LVL MAS

MAT'L

MBM

MCJ

MECH

MEZZ

MFR

MIN MISC MO MOM

MSW

MSL MTL

NO

NS

NTS

MAX

l id

I HI

F/ FD

ABBREVIA	ATIONS LIST	
AR	ANCHOR RODS	0/
ABV	ABOVE	OA
ACI ADD'L	AMERICAN CONCRETE INSTITUTE	00 00
ADH	ADHESIVE	OF
ADJ	ADJACENT	٥ŀ
AESS	ARCHITECTURALLY EXPOSED	OF
AFF	STRUCTURAL STEEL ABOVE FINISHED FLOOR	OF OF
AGGR	AGGREGATE	05
AHU	AIR HANDLING UNIT	ŌS
AISC	AMERICAN INSTITUTE OF	0\
AISI	STEEL CONSTRUCTION AMERICAN IRON AND	PA PC
AISI	STEEL INSTITUTE	PL
ALUM	ALUMINUM	ΡL
ALT	ALTERNATE	PL
APPROX ARCH	APPROXIMATE ARCHITECT	PN PR
ARCH'L	ARCHITECTURAL	PS
ASTM	AMERICAN SOCIETY OF	PS
	TESTING MATERIALS	PS
AWS L	AMERICAN WELDING SOCIETY ANGLE	PT PT
BAL	BALANCE	R
BB	BOND BEAM	RD
B/B	BACK TO BACK	RE
BC BD	BOTTOM CHORD BOARD	RE RE
BLDG	BUILDING	RE
BLK	BLOCK	RC
BLW	BELOW	RF
BM BOTT	BEAM BOTTOM	RT RT
BP	BEARING PLATE	RV
BRDG	BRIDGING	SC
BRG BRK	BEARING BRICK	SE S⊦
BS	BOTH SIDES	SI
BSMT	BASEMENT	SJ
BTWN	BETWEEN	SJ
BUC c	BUILT UP COLUMN CAMBER	SL SP
C/C	CENTER TO CENTER	SP
CANT	CANTILEVER	SC
CAIS		SS
CFS CJ	COLD FORMED STEEL CONTROL AND/OR	SS ST
	CONSTRUCTION JOINT	ST
CL	CENTERLINE	ST
	CLEAR CONCRETE MASONRY UNIT	ST SY
CMU COL	COLUMN	T&
COORD	COORDINATE	T&
COMP	COMPACTED	TB
CONC CONN	CONCRETE CONNECTION	TC TC
CONST	CONSTRUCTION	TE
CONT	CONTINUOUS	TF
CONTR CTR	CONTRACTOR CENTER	TH TH
CTR'D	CENTER	TH
DIA	DIAMETER	TL
DIAG	DIAGONAL	TC
DIM DL	DIMENSION DEAD LOAD	TR TY
	DEEP LEG TRACK	UN
DO	DITTO	VE
DN	DOWN	VIF
DTL DWG	DETAIL DRAWING	w/ WI
DWL	DOWEL	W
EA	EACH	W
EE		W
EF EJ	EACH FACE EXPANSION JOINT	W١
ENG	ENGINEER	EL
ELEV	ELEVATION	
ELECT		T/
EOD EOS	EDGE OF DECK EDGE OF SLAB	B/ J/E
EQ	EQUAL	T/E
EQUIV	EQUIVALENT	T/E
ES EW	EACH SIDE EACH WAY	T/C T/F
		1/5

EXPANSION EXTERIOR FACE OF FLOOR DRAIN FOUNDATION FINISH FLOOR FLANGE FARSIDE FOOTING FIELD VERIFY GAUGE

EXISTING

GALVANIZED GRADE BEAM GENERAL CONTRACTOR GLULAM GRADE HOLLOW CORE

HOLD DOWN

HEIGHT

LONG

HIGH HOOK HORIZONTAL HIGH POINT HEADED STUD HOLLOW STRUCTURAL SECTION INSIDE DIAMETER INSIDE FACE INFORMATION INTERIOR INVERT JOIST JOINT KIP KNOCK OUT POUND LEDGE

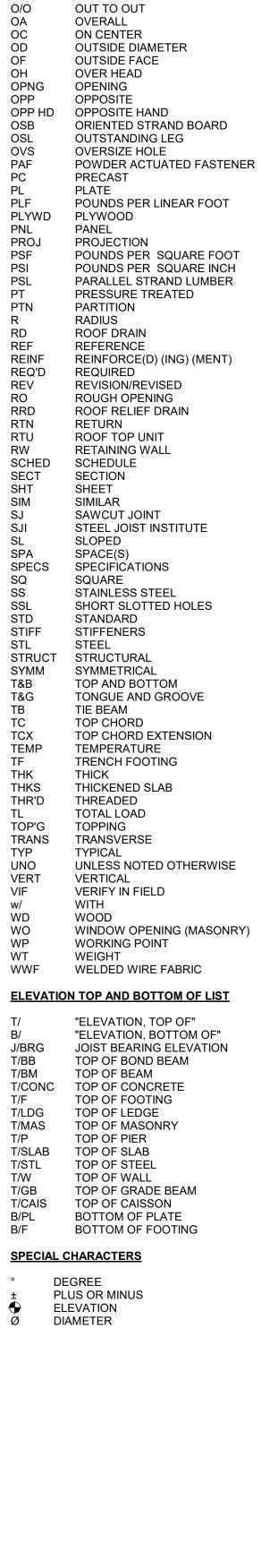
LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LINTEL LONG SLOTTED HOLES LONGITUDINAL LOW POINT LAMINATED VENEER LUMBER MASONRY MATERIAL MAXIMUM

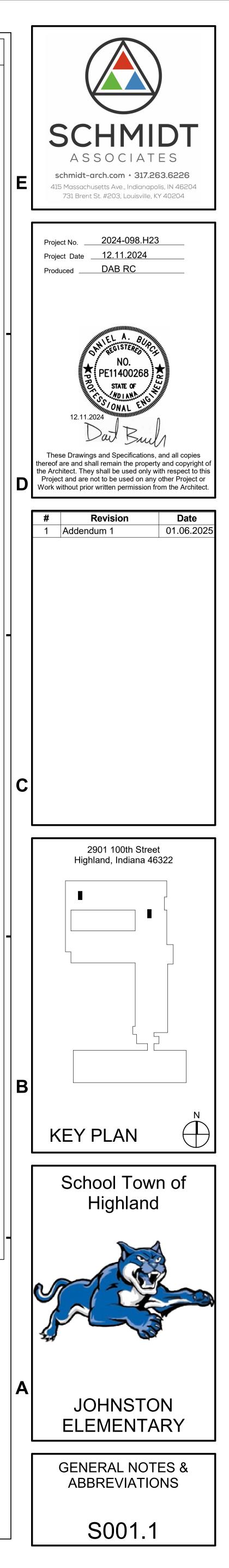
METAL BUILDING MFR MASONRY CONTROL JT MECHANICAL MEZZANINE MANUFACTURER

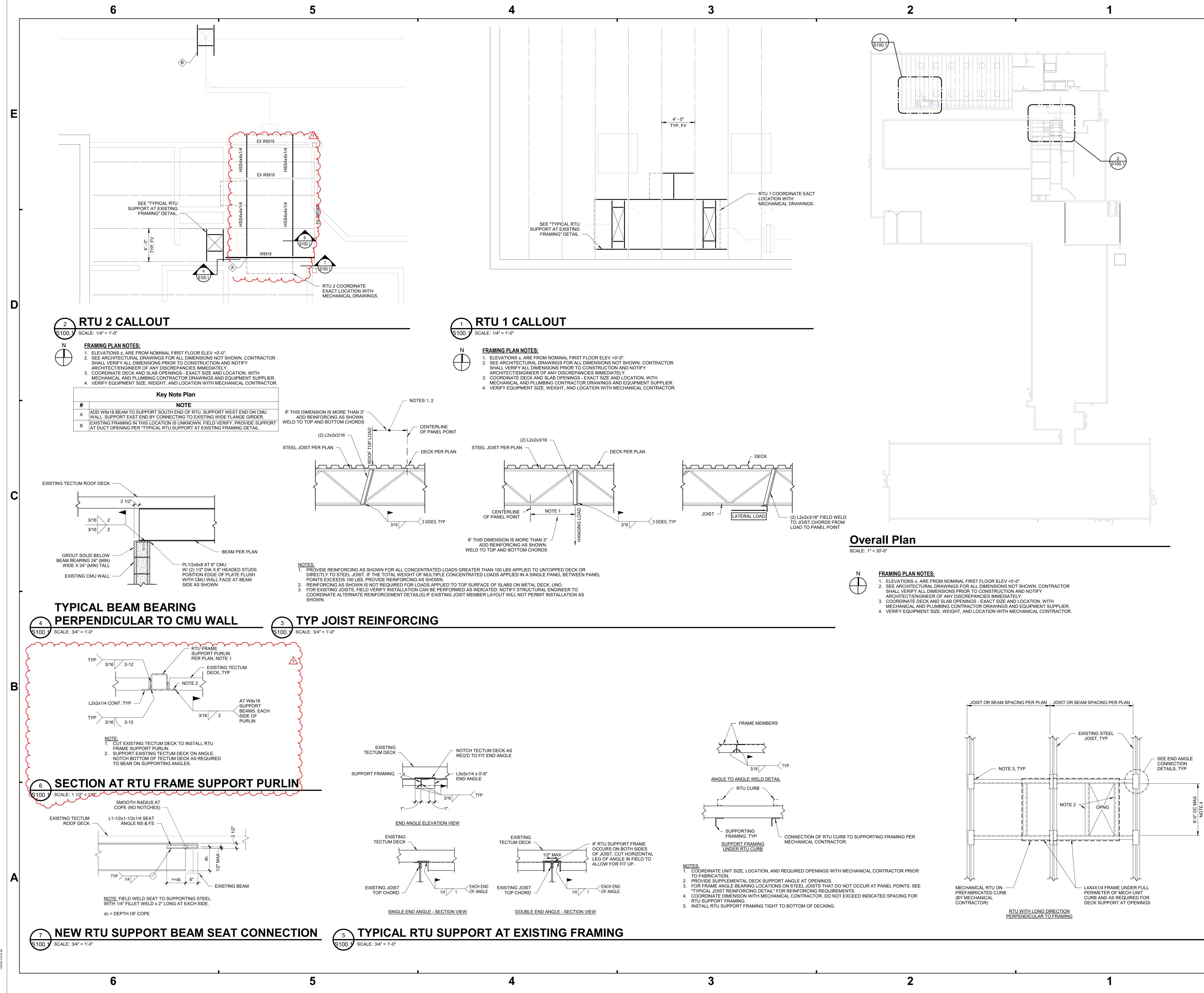
MINIMUM MISCELLANEOUS MASONRY OPENING MOMENT

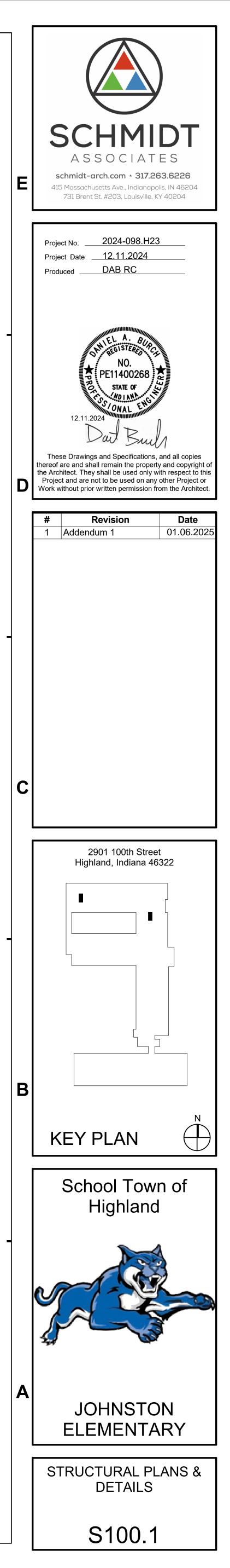
MASONRY SHEAR WALL MEAN SEA LEVEL METAL

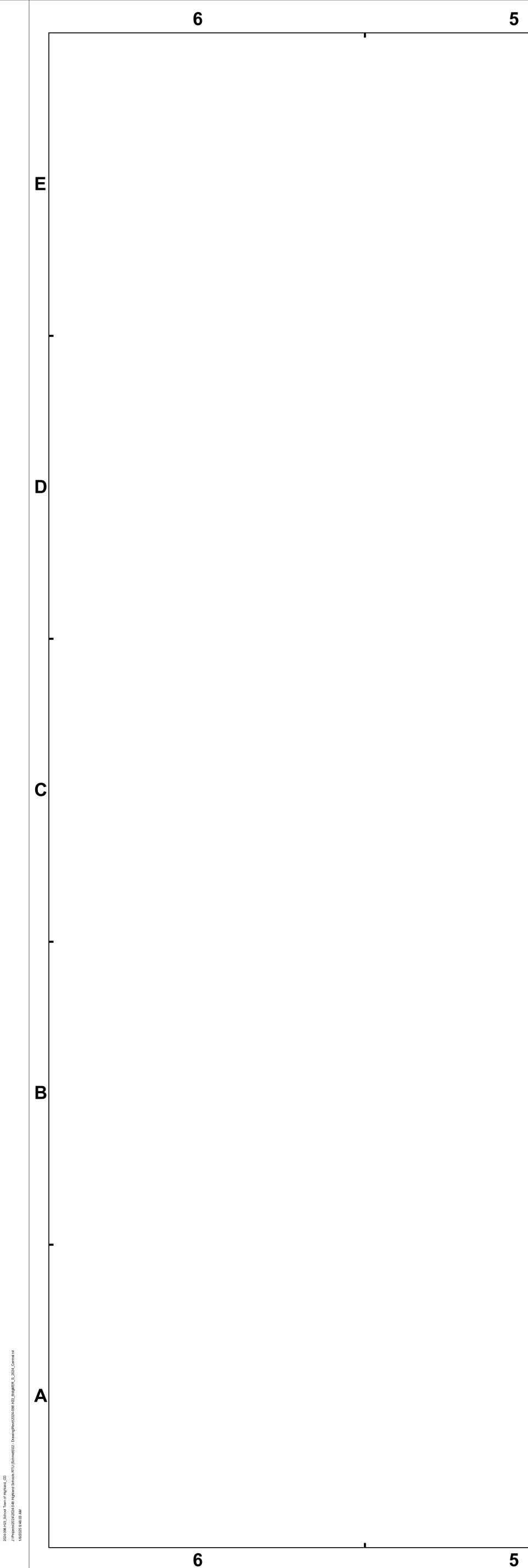
NUMBER NEAR SIDE NOT TO SCALE











3

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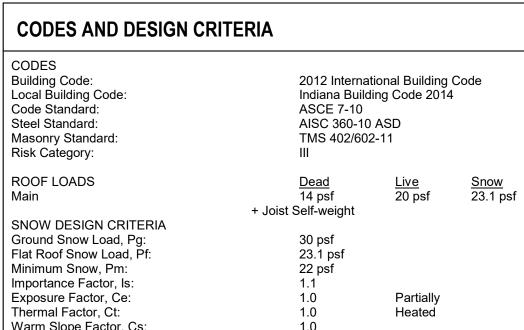
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## 051200 STRUCTURAL STEEL NOTES

structural steel shall conform to the foll	owing:
W Shapes	ASTM A992, Grade 50.
Angles, Channels, Plates, Bars	ASTM A36 (Fy=36 ksi)
HSS Tubes	ASTM A500, Grade C (Fy=50 ksi)

All steel shall be detailed, fabricated and erected in accordance with: AISC 360 "Specification for Structural Steel Buildings", Allowable Strength Design (ASD)

AISC 303 "Code of Standard Practice"

All bolted connections shall be made with 3/4" diameter, A325 bolts with nuts and washers, unless otherwise noted. All connections shall be shear bearing connections tightened to snug-tight condition, unless otherwise noted.

All shop and field welds shall be made using E70 electrodes or equivalent.

Splices shall be allowed only at locations specifically indicated on the structural drawings unless approved otherwise by the SER in writting.

For steel members and embedments exposed to weather, provide hot-dipped galvanized finish, uno. Field modification of structural steel is prohibited without prior approval of the architect and

Steel fabricator shall obtain the size and location of all openings for grilles, louvers, etc. before proceeding with the fabrication and erection of any required frames.

052100 STEEL JOIST NOTES

During the reinforcing process, the heat generated from welding can reduce the capacity of the existing joists. Therefore the existing joists shall be temporarily shored and/or the existing RTUs shall be removed prior to and during reinforcing.

Do not damage existing joists or bridging during the installation of joist reinforcing or RTU support frames.

Prepare existing joists to receive weld per current AISC and AWS standards.

Repair paint or primer at weld locations to match existing conditions.

Where joist reinforcing and/or RTU support framing are exposed in the final condition, paint to match existing condition.

**ABBREVIATIONS LIST** 

FS FTG

LLH LLV

LNTL

LSL

LP

LVL

MAS

MAT'L

MAX MBM

MCJ

MECH

MEZZ

MFR

MIN MISC MO MOM

MSW

MSL MTL NO

NS

NTS

LONG

LONG SLOTTED HOLES

METAL BUILDING MFR

MASONRY CONTROL JT

MASONRY SHEAR WALL

LAMINATED VENEER LUMBER

LONG LEG VERTICAL

LONGITUDINAL

LOW POINT

MASONRY

MATERIAL

MAXIMUM

MECHANICAL

MANUFACTURER

MEAN SEA LEVEL

MEZZANINE

MINIMUM MISCELLANEOUS MASONRY OPENING

MOMENT

METAL NUMBER

NEAR SIDE

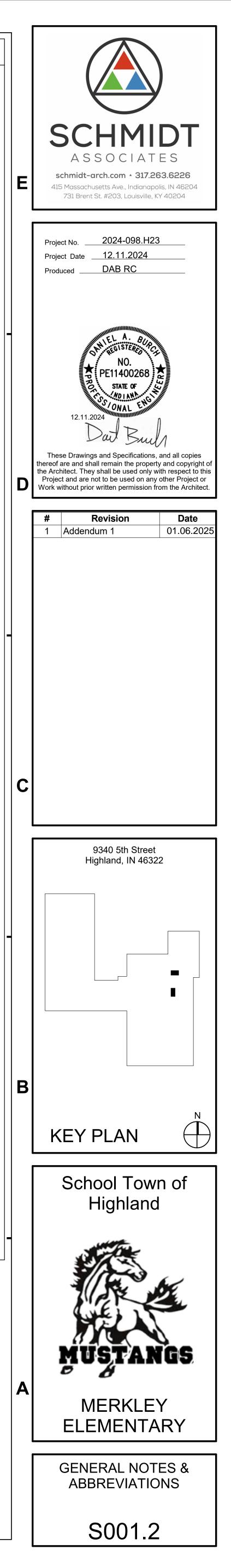
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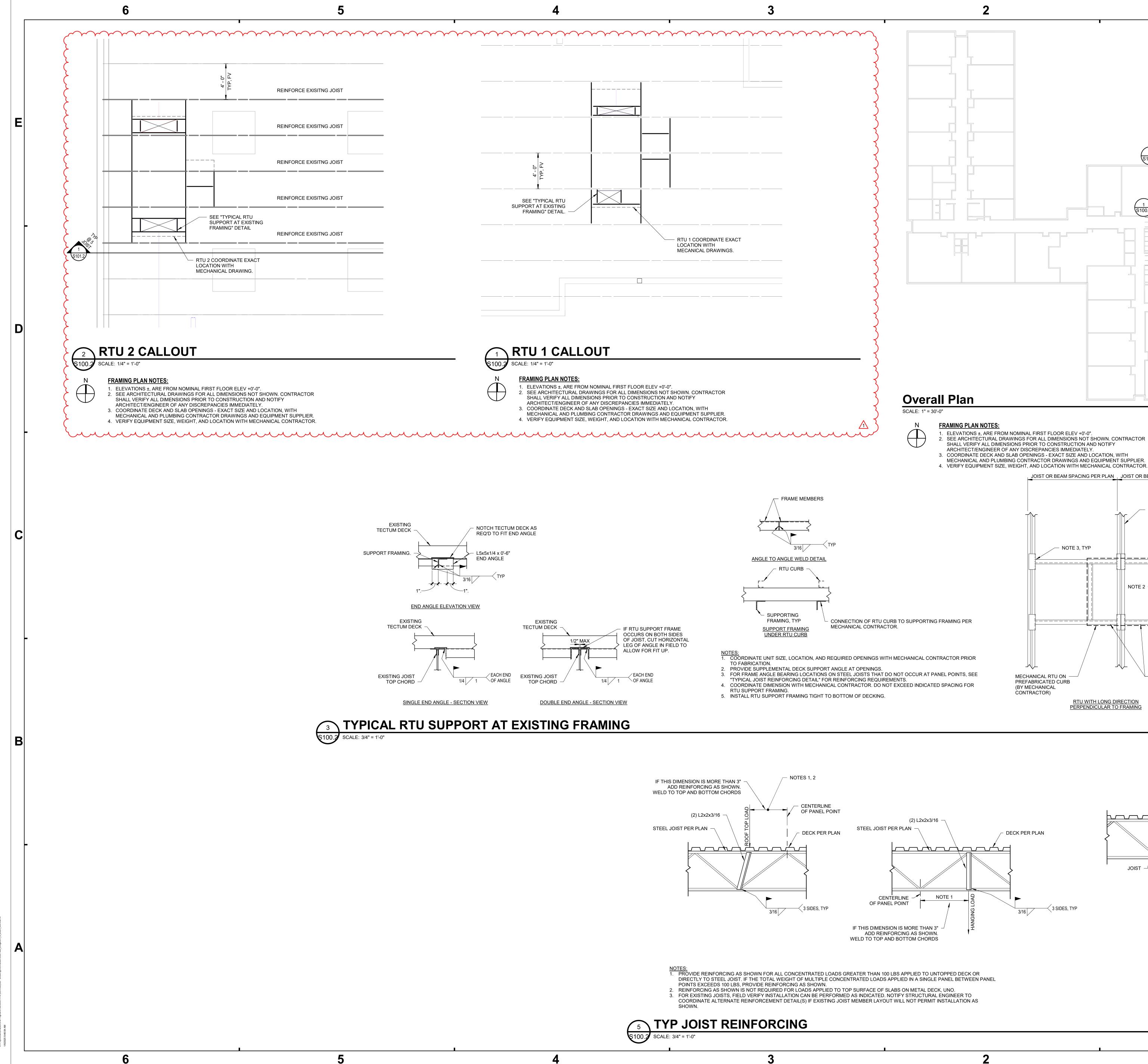
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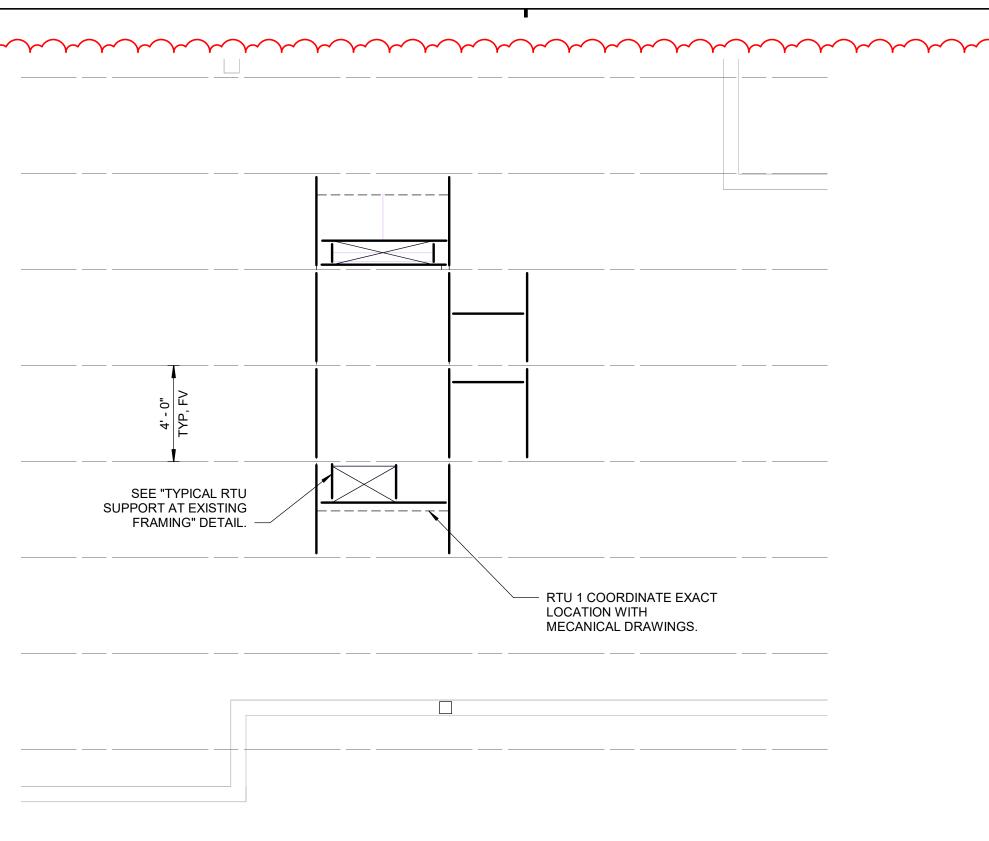
ABBREVI	ATIONS LIST	
AR	ANCHOR RODS	0/0
ABV ACI	ABOVE AMERICAN CONCRETE INSTITUTE	OA OC
ADD'L	ADDITIONAL	OD
ADH ADJ	ADHESIVE ADJACENT	OF OH
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	OPNG OPP
AFF	ABOVE FINISHED FLOOR	OPP HD
AGGR AHU	AGGREGATE AIR HANDLING UNIT	OSB OSL
AISC	AMERICAN INSTITUTE OF	OVS
AISI	STEEL CONSTRUCTION AMERICAN IRON AND	PAF PC
	STEEL INSTITUTE	PL PLF
ALUM ALT	ALUMINUM ALTERNATE	PLYWD
APPROX ARCH	APPROXIMATE ARCHITECT	PNL PROJ
ARCH'L	ARCHITECTURAL	PSF
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	PSI PSL
AWS L	AMERICAN WELDING SOCIETY ANGLE	PT PTN
BAL	BALANCE	R
BB B/B	BOND BEAM BACK TO BACK	RD REF
BC	BOTTOM CHORD	REINF
BD BLDG	BOARD BUILDING	REQ'D REV
BLK BLW	BLOCK BELOW	RO RRD
BM	BEAM	RTN
BOTT BP	BOTTOM BEARING PLATE	RTU RW
BRDG BRG	BRIDGING BEARING	SCHED SECT
BRK	BRICK	SHT
BS BSMT	BOTH SIDES BASEMENT	SIM SJ
BTWN	BETWEEN	SJI
BUC c	BUILT UP COLUMN CAMBER	SL SPA
C/C CANT	CENTER TO CENTER CANTILEVER	SPECS SQ
CAIS	CAISSON	SS
CFS CJ	COLD FORMED STEEL CONTROL AND/OR	SSL STD
CL	CONSTRUCTION JOINT CENTERLINE	STIFF STL
CLR	CLEAR	STRUCT
CMU COL	CONCRETE MASONRY UNIT COLUMN	SYMM T&B
COORD COMP	COORDINATE COMPACTED	T&G TB
CONC	CONCRETE	тс
CONN CONST	CONNECTION CONSTRUCTION	TCX TEMP
CONT CONTR	CONTINUOUS CONTRACTOR	TF THK
CTR	CENTER	THKS
CTR'D DIA	CENTERED DIAMETER	THR'D TL
DIAG DIM	DIAGONAL DIMENSION	TOP'G TRANS
DL	DEAD LOAD	TYP
DLT DO	DEEP LEG TRACK DITTO	UNO VERT
DN DTL	DOWN DETAIL	VIF w/
DWG DWL	DRAWING	WD
EA	DOWEL EACH	WO WP
EE EF	EACH END EACH FACE	WT WWF
EJ	EXPANSION JOINT	
ENG ELEV	ENGINEER ELEVATION	<u>ELEVATIO</u>
ELECT EOD	ELECTRICAL EDGE OF DECK	T/ B/
EOS	EDGE OF SLAB	J/BRG
EQ EQUIV	EQUAL EQUIVALENT	T/BB T/BM
ES EW	EACH SIDE EACH WAY	T/CONC T/F
EXIST	EXISTING	T/LDG
EXP EXT	EXPANSION EXTERIOR	T/MAS T/P
F/ FD	FACE OF FLOOR DRAIN	T/SLAB T/STL
FDN	FOUNDATION	T/W
FIN FLR	FINISH FLOOR	T/GB T/CAIS
FLG FS	FLANGE FARSIDE	B/PL B/F
FTG	FOOTING	
FV GA	FIELD VERIFY	SPECIAL (
GALV GB	GALVANIZED GRADE BEAM	° DE ± PL
GC	GENERAL CONTRACTOR	🕂 EL
GL GR	GLULAM GRADE	Ø DI
HC HD	HOLLOW CORE HOLD DOWN	
HGT	HEIGHT	
HI HK	HIGH HOOK	
HORIZ HP	HORIZONTAL HIGH POINT	
HS HSS	HEADED STUD HOLLOW STRUCTURAL SECTION	
ID	INSIDE DIAMETER	
IF INFO	INSIDE FACE INFORMATION	
INT INV	INTERIOR INVERT	
JST	JOIST	
JT K	JOINT KIP	
KO LB	KNOCK OUT POUND	
LDG LG	LEDGE LONG	
LL	LIVE LOAD	
LLH	LONG LEG HORIZONTAL	

OUT TO OUT OVERALL ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OVER HEAD OPENING OPPOSITE OPPOSITE HAND ORIENTED STRAND BOARD OUTSTANDING LEG OVERSIZE HOLE POWDER ACTUATED FASTENER PRECAST PLATE POUNDS PER LINEAR FOOT PLYWOOD PANEL PROJECTION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER PRESSURE TREATED PARTITION RADIUS ROOF DRAIN REFERENCE REINFORCE(D) (ING) (MENT) REQUIRED REVISION/REVISED ROUGH OPENING ROOF RELIEF DRAIN RETURN ROOF TOP UNIT **RETAINING WALL** SCHEDULE SECTION SHEET SIMILAR SAWCUT JOINT STEEL JOIST INSTITUTE SLOPED SPACE(S) SPECIFICATIONS SQUARE STAINLESS STEEL SHORT SLOTTED HOLES STANDARD STIFFENERS STEEL STRUCTURAL SYMMETRICAL TOP AND BOTTOM TONGUE AND GROOVE TIE BEAM TOP CHORD TOP CHORD EXTENSION TEMPERATURE TRENCH FOOTING THICK THICKENED SLAB THREADED TOTAL LOAD TOPPING TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERTICAL VERIFY IN FIELD WITH WOOD WINDOW OPENING (MASONRY) WORKING POINT WEIGHT WELDED WIRE FABRIC ON TOP AND BOTTOM OF LIST "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BEAM TOP OF CONCRETE TOP OF FOOTING TOP OF LEDGE TOP OF MASONRY TOP OF PIER TOP OF SLAB TOP OF STEEL TOP OF WALL TOP OF GRADE BEAM TOP OF CAISSON BOTTOM OF PLATE BOTTOM OF FOOTING CHARACTERS EGREE LUS OR MINUS LEVATION DIAMETER

2

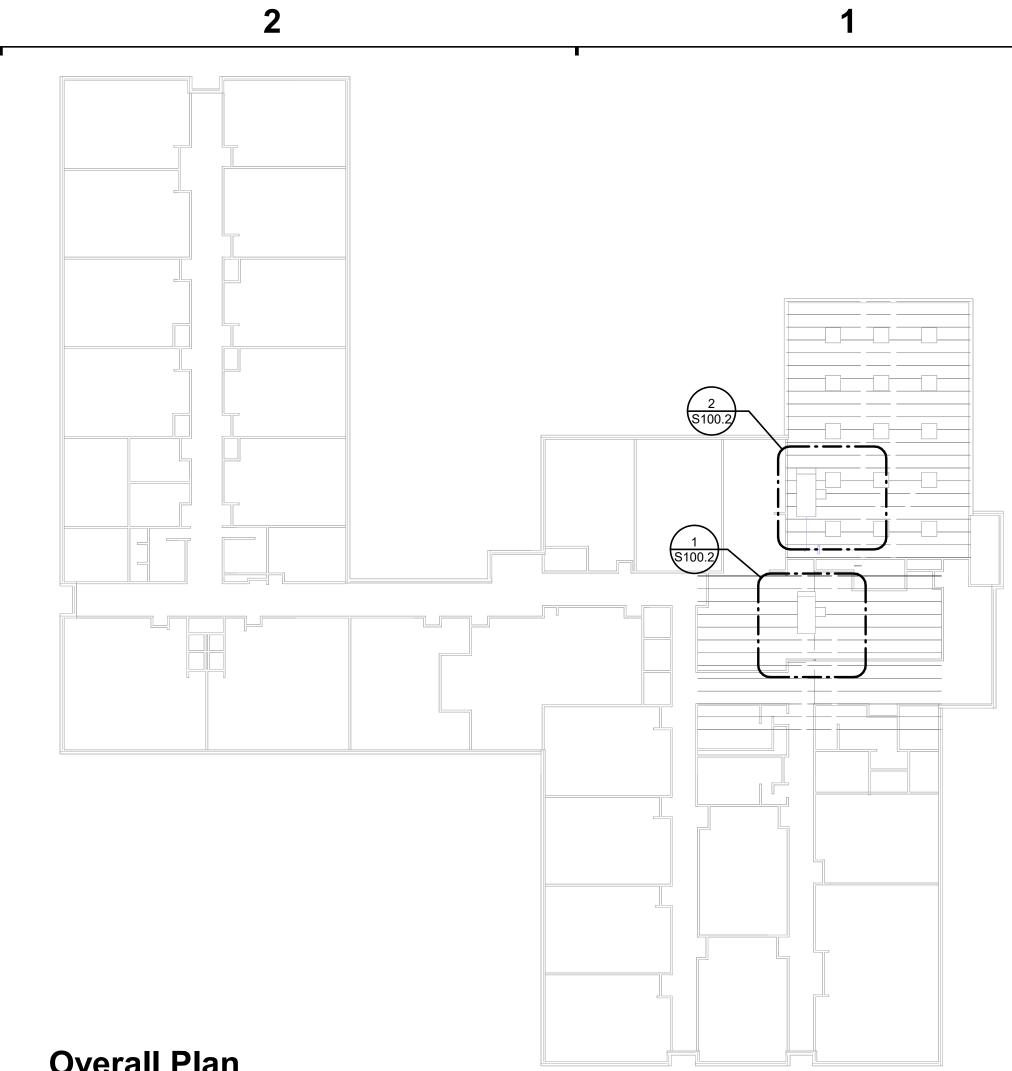




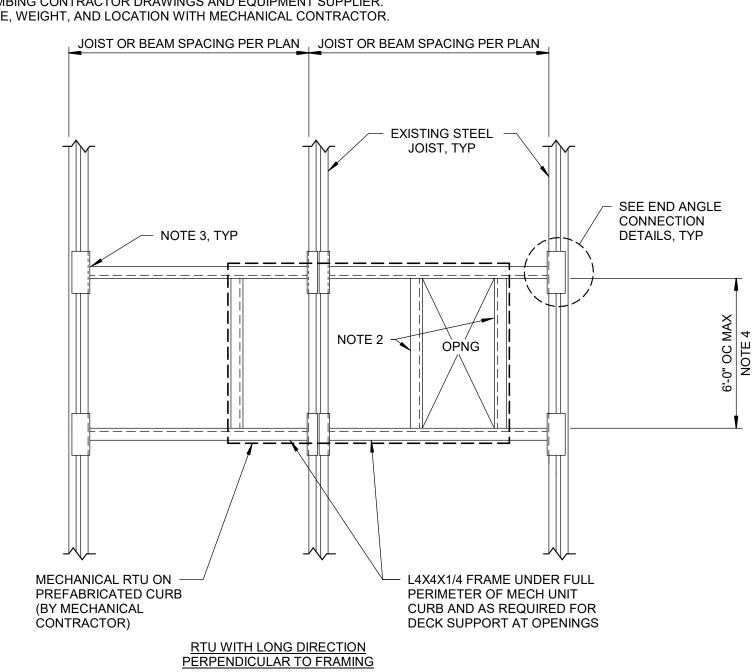


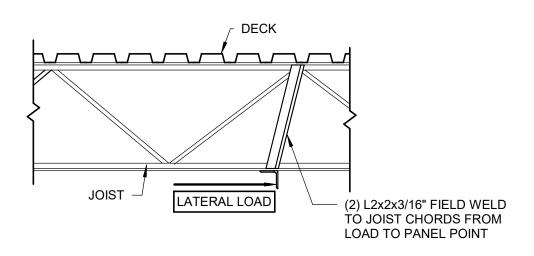


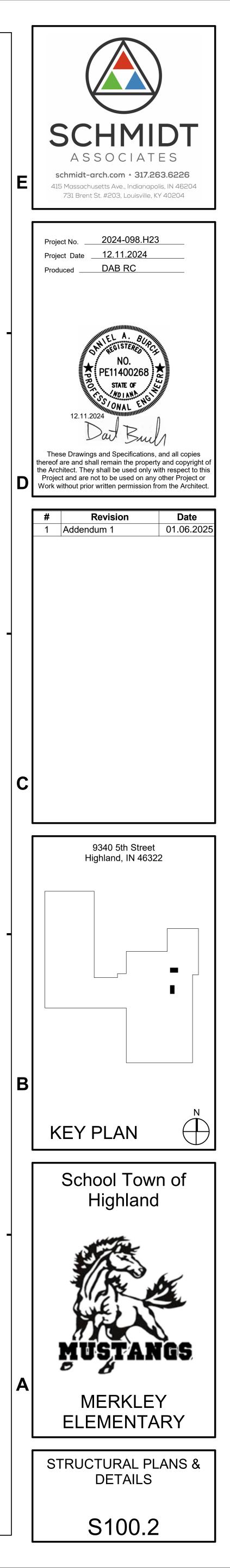


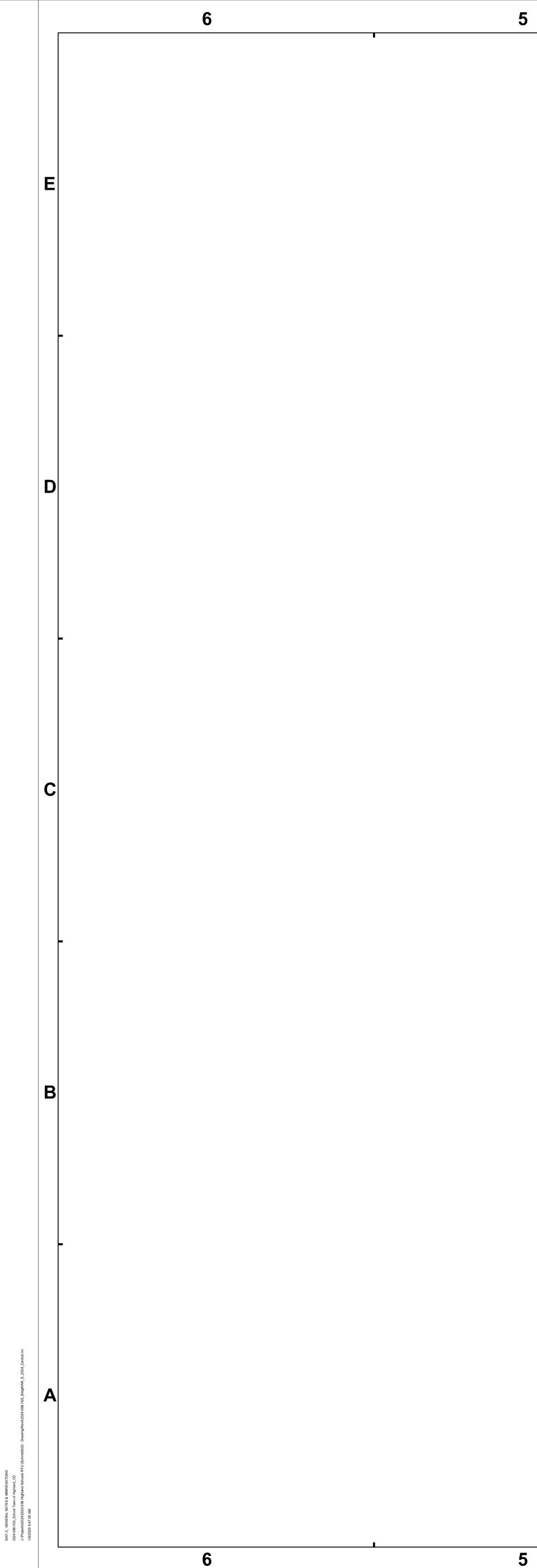


- 2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR
- ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY
- MECHANICAL AND PLUMBING CONTRACTOR DRAWINGS AND EQUIPMENT SUPPLIER.









4

3

# S LIST

		ABBR	EVIATIONS LIS
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Design Professionals" is defined as MEP" includes, but is not limted to M	the owner's architect lechanical, Electrical, Plumbing, Fire Protection.	ADJ AESS	ADJACENT ARCHITECTU
Contractor" is defined to include any	of the following: General Contractor and their		STRUCTURAL
Subcontractors, Construction Manage abricator or Structural Steel Erector	er and their Subcontractors, Structural Steel	AFF AGGR	ABOVE FINIS
Base Building Structure" is defined a	is the structural frame desinged by JQOL Global LLC. s all structural elements shown on the structural	AHU AISC	AIR HANDLIN
contract documents are installed an	d completely connected and inspected with no		AMERICAN IN STEEL CONS
outstanding non-comliance issues.		AISI	AMERICAN IR STEEL INSTIT
The Contractor is solely responsible f he structure reaches its final condition	or the stability of the structure until the construction of	ALUM ALT	ALUMINUM ALTERNATE
		APPROX	APPROXIMAT
	rdination of the Structural work with the Architectural, ell as any other applicable trades. The architectural,	ARCH ARCH'L	ARCHITECT ARCHITECTU
nechanical, electrical and plumbing a	aspects are not in the scope of these drawings. work may not be indicated. Refer to architectural	ASTM	AMERICAN SE TESTING MA
Irawings for all dimensions not show	n on these drawings. Locations, sizes and numbers of	AWS	AMERICAN W
all openings may not be completely in contractor shall verify their work with	ndicated in the structural drawings. The respective all other disciplines.	L   BAL	ANGLE BALANCE
-	or the design, installation, and removal of temporary	BB B/B	BOND BEAM BACK TO BAG
pracing and construction supports, for	or new and existing structures, as necessary to	BC	BOTTOM CHO
	e project while under construction is intended to be or's temporary supports and braces. Contractor shall	BD BLDG	BOARD BUILDING
etain a structural engineer licensed i	n the state in which the project is located to design	BLK BLW	BLOCK BELOW
emporary bracing and construction s		BM	BEAM
construction. The contractor shall pro	e structure only. They do not indicate the method of vide all measures necessary to protect the structure	BOTT BP	BOTTOM BEARING PLA
luring construction. Such measures	shall include, but not limited to, bracing, shoring, cord is not responsible for the contractor's means,	BRDG BRG	BRIDGING
	safety procedures during construction.	BRK	BEARING BRICK
The contractor shall verify all existing	dimensions and conditions and coordinate with the	BS BSMT	BOTH SIDES BASEMENT
	wings, drawings from other consultants, project shop	BTWN	BETWEEN BUILT UP COI
·		с	CAMBER
Apply details, sections, and notes on ndicated by detail, detail title or note	the drawings where conditions are similar to those	C/C CANT	CENTER TO C CANTILEVER
Only use dimensions indicated on the		CAIS CFS	CAISSON COLD FORME
		CJ	CONTROL AN
Assume equal spacing between esta	blished dimensions, if not indicated on drawings.	CL	CONSTRUCT CENTERLINE
The contractor shall verify that constr structure at the time the load is applie	uction loads do not exceed the capacity of the	CLR CMU	CLEAR CONCRETE N
		COL	COLUMN
Reactions and forces indicated are u	nfactored, Allowable Strength Design (ASD) loads.	COORD COMP	COORDINATE COMPACTED
f Drawings and specifications are in equirements shall govern.	conflict, the most stringent restrictions and	CONC CONN	CONCRETE CONNECTION
equilemente enuil geventi.			00111201101
		CONST	
sections are shown, construction sha	nce over general structural notes. Where no details or Il conform to similar work on the project. Typical	CONST CONT CONTR	CONTINUOUS
sections are shown, construction sha		CONT CONTR CTR	CONTINUOUS CONTRACTO CENTER
sections are shown, construction sha sections and details may not be cut o /erify all existing conditions prior to a	Il conform to similar work on the project. Typical n the plans, but apply unless noted otherwise. ny construction or fabrication. If different than shown,	CONT CONTR CTR CTR'D DIA	CONTINUOUS CONTRACTO CENTER CENTERED DIAMETER
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052100 STEEL JOIST NOTES

During the reinforcing process, the heat generated from welding can reduce the capacity of the existing joists. Therefore the existing joists shall be temporarily shored and/or the existing RTUs shall be removed prior to and during reinforcing.

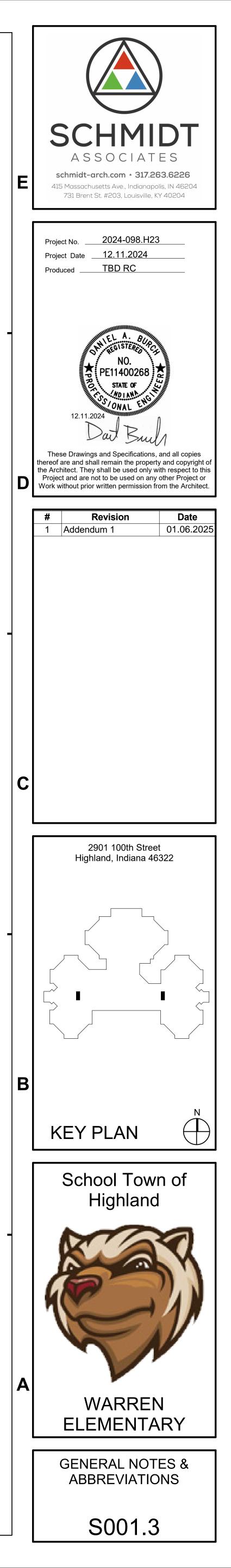
Do not damage existing joists or bridging during the installation of joist reinforcing or RTU support frames.

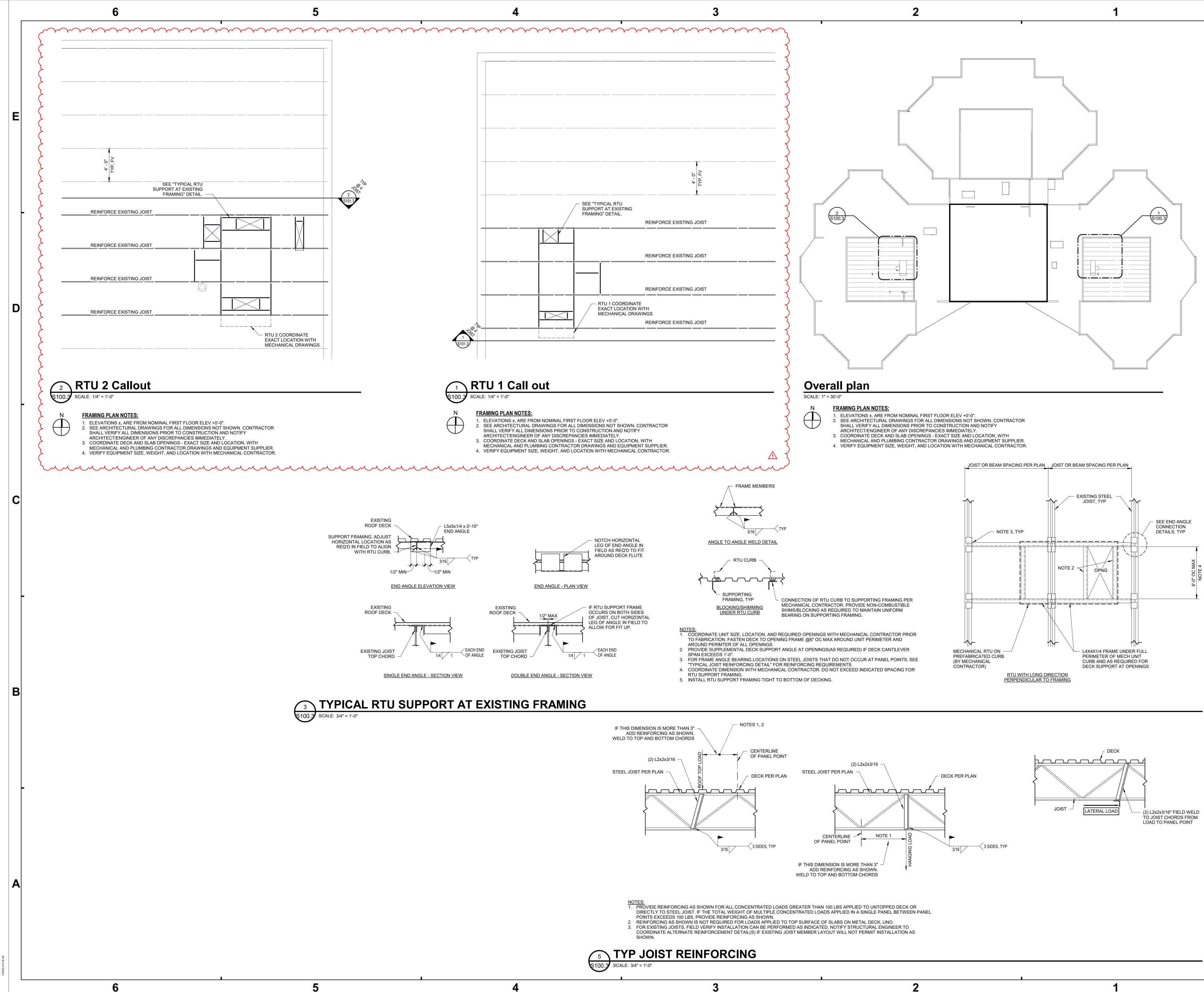
Prepare existing joists to receive weld per current AISC and AWS standards. Repair paint or primer at weld locations to match existing conditions.

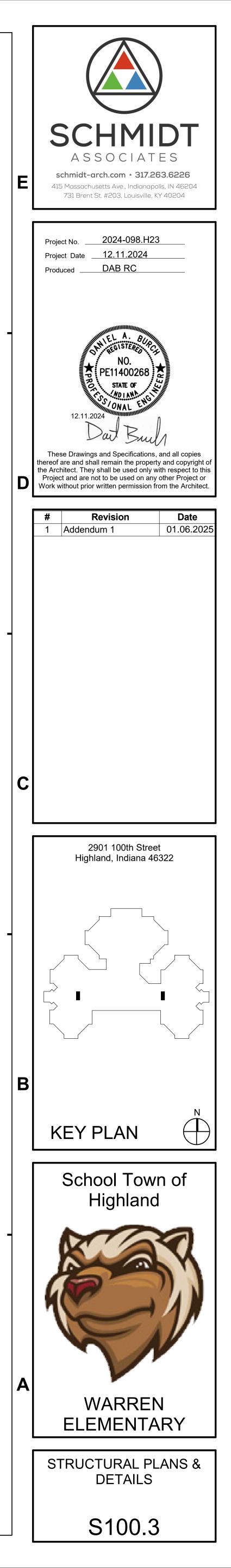
Where joist reinforcing and/or RTU support framing are exposed in the final condition, paint to match existing condition.

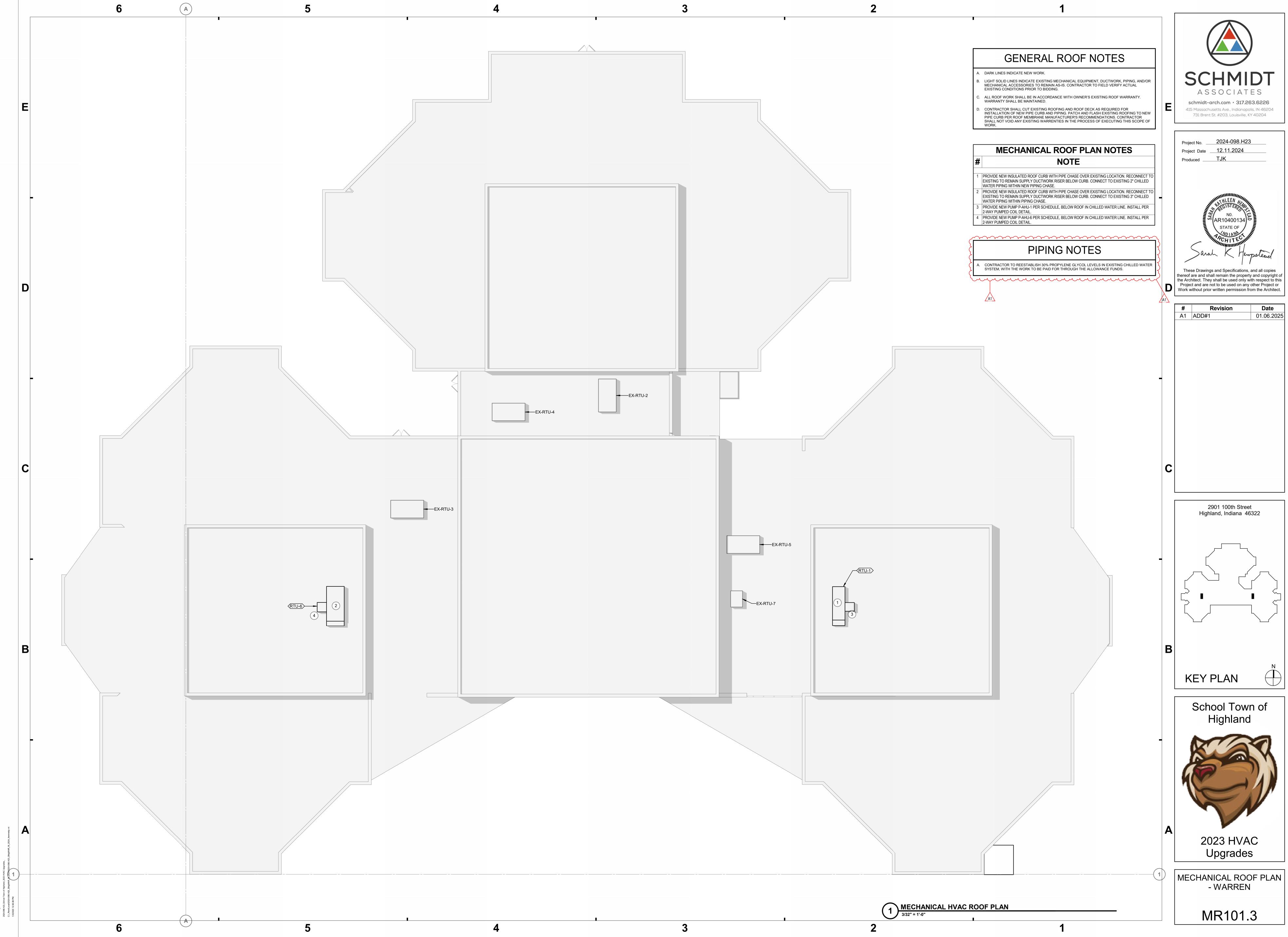
K KO LB LDG LG LL LLH LLV LNTL LSL LONG LP LVL MAS MAT'L MAX MECH MEZZ MFR MIN MISC MOM MSW MSL MTL NO NS NTS

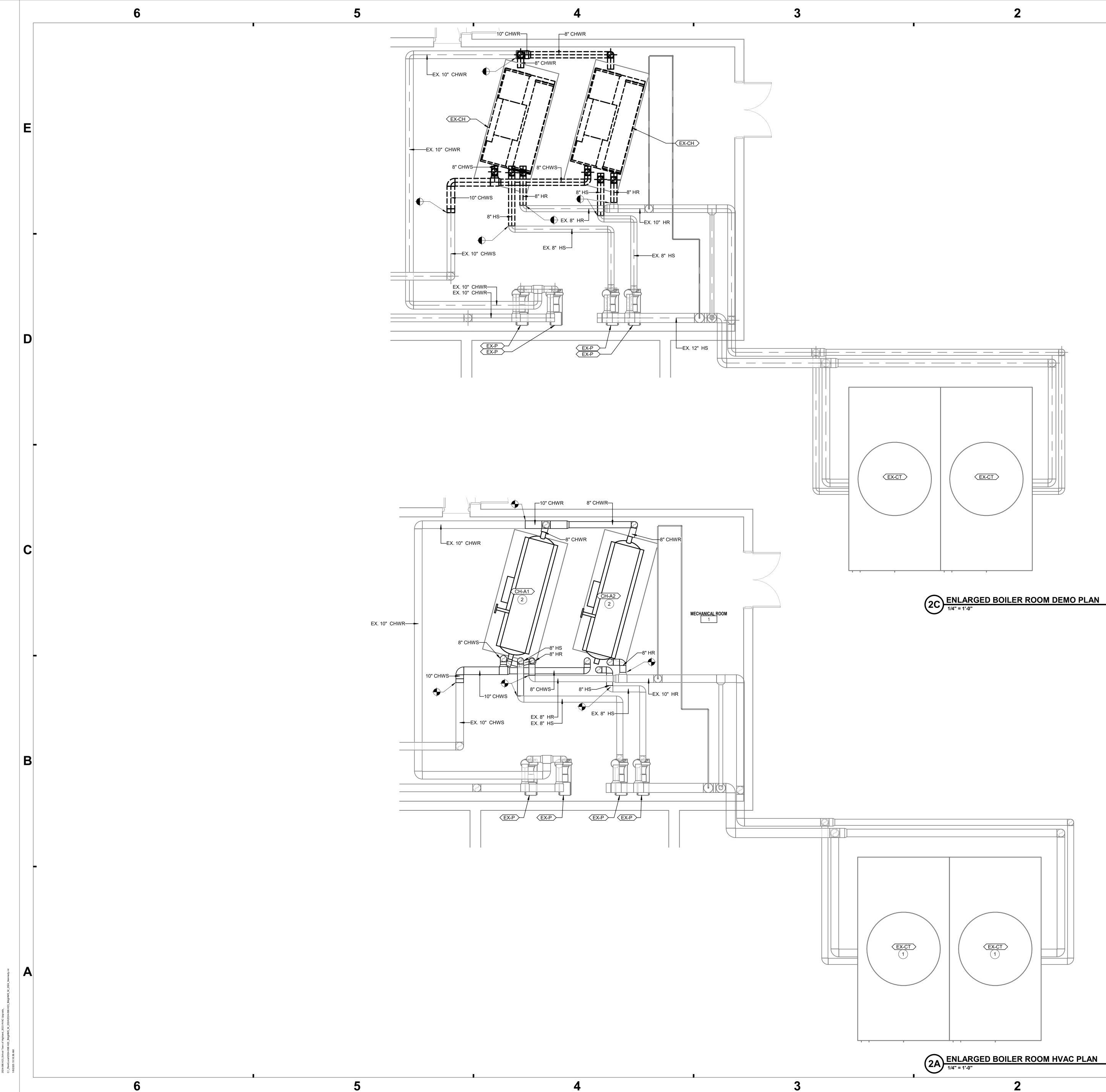
ANCHOR RODS	0/0	OUT TO OUT
ABOVE AMERICAN CONCRETE INSTITUTE	OA OC	OVERALL ON CENTER
ADDITIONAL ADHESIVE	OD OF	OUTSIDE DIAMETER OUTSIDE FACE
ADJACENT ARCHITECTURALLY EXPOSED	OH OPNG	OVER HEAD OPENING
STRUCTURAL STEEL ABOVE FINISHED FLOOR	OPP OPP HD	OPPOSITE OPPOSITE HAND
AGGREGATE AIR HANDLING UNIT	OSB OSL	ORIENTED STRAND BOARD OUTSTANDING LEG
AMERICAN INSTITUTE OF STEEL CONSTRUCTION	OVS PAF	OVERSIZE HOLE POWDER ACTUATED FASTENER
AMERICAN IRON AND STEEL INSTITUTE	PC PL	PRECAST PLATE
ALUMINUM ALTERNATE	PLF PLYWD	POUNDS PER LINEAR FOOT PLYWOOD
APPROXIMATE ARCHITECT	PNL PROJ	PANEL PROJECTION
ARCHITECTURAL AMERICAN SOCIETY OF	PSF	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
TESTING MATERIALS	PSI PSL	PARALLEL STRAND LUMBER
AMERICAN WELDING SOCIETY	PT PTN	PRESSURE TREATED PARTITION
BALANCE BOND BEAM	R RD	RADIUS ROOF DRAIN
BACK TO BACK BOTTOM CHORD	REF REINF	REFERENCE REINFORCE(D) (ING) (MENT)
BOARD BUILDING	REQ'D REV	REQUIRED REVISION/REVISED
BLOCK BELOW	RO RRD	ROUGH OPENING ROOF RELIEF DRAIN
BEAM BOTTOM	RTN RTU	RETURN ROOF TOP UNIT
BEARING PLATE BRIDGING	RW SCHED	RETAINING WALL SCHEDULE
BEARING BRICK	SECT SHT	SECTION SHEET
BOTH SIDES BASEMENT	SIM SJ	SIMILAR SAWCUT JOINT
BETWEEN BUILT UP COLUMN	SJI SL	STEEL JOIST INSTITUTE SLOPED
CAMBER CENTER TO CENTER	SPA	SPACE(S) SPECIFICATIONS
	SQ	SQUARE
CAISSON COLD FORMED STEEL	SSL	SQUARE STAINLESS STEEL SHORT SLOTTED HOLES STANDARD
CONTROL AND/OR CONSTRUCTION JOINT	STIFF	STIFFENERS
	STL STRUCT	STEEL STRUCTURAL
CONCRETE MASONRY UNIT	SYMM T&B	STRUCTURAL SYMMETRICAL TOP AND BOTTOM
COORDINATE COMPACTED	T&G TB	TONGUE AND GROOVE TIE BEAM
CONCRETE CONNECTION CONSTRUCTION	TC TCX	TOP CHORD TOP CHORD EXTENSION
CONSTRUCTION CONTINUOUS	TEMP TF	TOP CHORD EXTENSION TEMPERATURE TRENCH FOOTING
CONTRACTOR CENTER	THK THKS	THICK
CENTERED DIAMETER	THR'D	THREADED
DIAGONAL DIMENSION	TOP'G	TOTAL LOAD TOPPING TRANSVERSE
DEAD LOAD DEEP LEG TRACK	TYP	TYPICAL
DITTO DOWN	VERT	UNLESS NOTED OTHERWISE VERTICAL VERIFY IN FIELD
DETAIL DRAWING	w/ WD	WITH
DOWEL	WO WP	
FACH	V V I	
EACH EACH END EACH EACE	WT	WEIGHT
EACH END EACH FACE EXPANSION JOINT	WT WWF	WEIGHT WELDED WIRE FABRIC
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION	wt wwf <u>elevatio</u>	WEIGHT WELDED WIRE FABRIC IN TOP AND BOTTOM OF LIST
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK	WT WWF <u>ELEVATIO</u> T/ B/	WEIGHT WELDED WIRE FABRIC IN TOP AND BOTTOM OF LIST "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF"
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL	WT WWF <u>ELEVATIO</u> T/ B/ J/BRG T/BB	WEIGHT WELDED WIRE FABRIC IN TOP AND BOTTOM OF LIST "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC	WEIGHT WELDED WIRE FABRIC IN TOP AND BOTTOM OF LIST "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BEAM TOP OF CONCRETE
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE EACH WAY EXISTING	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC T/F T/LDG	WEIGHT WELDED WIRE FABRIC IN TOP AND BOTTOM OF LIST "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BOND BEAM TOP OF CONCRETE TOP OF FOOTING TOP OF LEDGE
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC T/F T/LDG T/MAS T/P	WEIGHT WELDED WIRE FABRIC IN TOP AND BOTTOM OF LIST "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BOND BEAM TOP OF CONCRETE TOP OF FOOTING TOP OF LEDGE TOP OF MASONRY TOP OF PIER
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR FACE OF FLOOR DRAIN	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC T/F T/LDG T/MAS T/P T/SLAB T/STL	WEIGHT WELDED WIRE FABRIC IN TOP AND BOTTOM OF LIST "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BOND BEAM TOP OF FOOTING TOP OF FOOTING TOP OF FOOTING TOP OF LEDGE TOP OF MASONRY TOP OF PIER TOP OF SLAB TOP OF STEEL
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR FACE OF FLOOR DRAIN FOUNDATION FINISH	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC T/F T/LDG T/MAS T/P T/SLAB T/STL T/W T/GB	WEIGHT WELDED WIRE FABRIC <b>IN TOP AND BOTTOM OF LIST</b> "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BOND BEAM TOP OF BEAM TOP OF CONCRETE TOP OF FOOTING TOP OF FOOTING TOP OF LEDGE TOP OF MASONRY TOP OF PIER TOP OF SLAB TOP OF STEEL TOP OF WALL TOP OF GRADE BEAM
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR FACE OF FLOOR DRAIN FOUNDATION FINISH FLOOR FLANGE	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC T/F T/LDG T/MAS T/P T/SLAB T/STL T/W T/SLAB T/STL T/W T/GB T/CAIS B/PL	WEIGHT WELDED WIRE FABRIC <b>IN TOP AND BOTTOM OF LIST</b> "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BOND BEAM TOP OF CONCRETE TOP OF FOOTING TOP OF FOOTING TOP OF LEDGE TOP OF MASONRY TOP OF SLAB TOP OF SLAB TOP OF STEEL TOP OF WALL TOP OF GRADE BEAM TOP OF CAISSON BOTTOM OF PLATE
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR FACE OF FLOOR DRAIN FOUNDATION FINISH FLOOR FLANGE FARSIDE FOOTING	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC T/F T/LDG T/MAS T/P T/SLAB T/STL T/W T/SLAB T/STL T/W T/GB T/CAIS B/PL B/F	WEIGHT WELDED WIRE FABRIC <b>IN TOP AND BOTTOM OF LIST</b> "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BOND BEAM TOP OF FOOTING TOP OF FOOTING TOP OF FOOTING TOP OF PIER TOP OF SLAB TOP OF STEEL TOP OF WALL TOP OF GRADE BEAM TOP OF CAISSON BOTTOM OF PLATE BOTTOM OF FOOTING
EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR FACE OF FLOOR DRAIN FOUNDATION FINISH FLOOR FLANGE FARSIDE FOOTING FIELD VERIFY GAUGE	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC T/F T/LDG T/MAS T/P T/SLAB T/STL T/W T/SLAB T/STL T/W T/GB T/CAIS B/PL B/F	WEIGHT WELDED WIRE FABRIC <b>IN TOP AND BOTTOM OF LIST</b> "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BOND BEAM TOP OF FOOTING TOP OF FOOTING TOP OF LEDGE TOP OF MASONRY TOP OF SLAB TOP OF STEEL TOP OF STEEL TOP OF GRADE BEAM TOP OF CAISSON BOTTOM OF PLATE BOTTOM OF FOOTING
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EACH END EACH FACE EXPANSION JOINT ENGINEER ELEVATION ELECTRICAL EDGE OF DECK EDGE OF SLAB EQUAL EQUIVALENT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR FACE OF FLOOR DRAIN FOUNDATION FINISH FLOOR FLANGE FARSIDE FOOTING FIELD VERIFY GAUGE GALVANIZED GRADE BEAM GENERAL CONTRACTOR GLULAM	WT WWF ELEVATIO T/ B/ J/BRG T/BB T/BM T/CONC T/F T/LDG T/MAS T/P T/SLAB T/STL T/W T/GB T/CAIS B/PL B/F SPECIAL O • DE ± PL • EL	WEIGHT WELDED WIRE FABRIC <b>IN TOP AND BOTTOM OF LIST</b> "ELEVATION, TOP OF" "ELEVATION, BOTTOM OF" JOIST BEARING ELEVATION TOP OF BOND BEAM TOP OF BOND BEAM TOP OF FOOTING TOP OF FOOTING TOP OF FOOTING TOP OF PIER TOP OF SLAB TOP OF SLAB TOP OF STEEL TOP OF GRADE BEAM TOP OF CAISSON BOTTOM OF PLATE BOTTOM OF FOOTING <b>CHARACTERS</b>
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# GENERAL DEMOLITION NOTES

- A. DARK DASHED LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES DEMOLISHED COMPLETE. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING AND DEMOLITION. CONTRACTOR TO INCLUDE ALL COST TO REMOVE ITEMS MADE OBSOLETE DUE TO NEW HVAC WORK.
- CONTRACTOR GIVES OWNER FIRST RIGHTS OF REFUSAL ON ANY EXISTING EQUIPMENT THE OWNER MAY WANT TO KEEP. IF OWNER DECIDES SAID ITEM IS TO BE REMOVED, THEN CONTRACTOR IS TO REMOVE FROM PROJECT SITE AS REQUIRED.
- C. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO DEMOLITION AND BIDDING.

# GENERAL PIPING NOTES

- DARK LINES INDICATE NEW WORK.
- LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.
- PROVIDE SHUTOFF VALVES AT EVERY BRANCH CONNECTION TO A MAIN.

