



Troy Schools District

RFP #2324-15

**BP#3A Smith Middle School – Foundations and Steel -
Addendum #3
February 12th, 2024**

Content Included in this Addendum:

**Cover Page (1 Page)
Barton Malow Write Up (2 Pages)
Structural Steel RFI Response PDF (6 Page)**

TOTAL PAGES: 9 Pages

February 12, 2024

Troy Schools District – BP#3A Smith Middle School – Foundations and Steel

Addendum #3 Bidder Clarifications

A. General Clarifications

- **Bid Extension**

- The bid due date is extended to Tuesday February 20th, 2024, for all three categories due to additional questions from Addendum #2 and #2.1.
- Please provide all RFIs by EOD February 13th.

B. Clarifications and Additions to Work Scopes

- **NA**

C. RFI Responses

Q: At stair details 3, 4, 7/S6.5, what deck, type and size, is required at stair landing per these details?

A: 3" CONC W/ 6X6 W2.9XW2.9 WWR VULCRAFT 20 GA. 0.6C FORM DECK

Q: Sheet S1.3B, what deck, type and size, is required at the high roofs?

A: Type 1.5B 20 GA. deck (typical roof deck, see S0.0).

Q: Sheet S1.3D High Roof Framing at ends near H and R-line, what are beam sizes?

A: Refer to addendum 2.1

Q: Sheet S1.2B H-line between 20 and 21 line shows W8x211. Please confirm this is meant to be a W8x21.

A: Correct. Beam size should be W8x21.

Q: Please provide all bearing plate sizes on plans views, as some are labeled but others are not.

A: Refer to bearing plate schedule on S6.1, use BP-1 typical if no mark on plan.

Q: Please provide elevations as some locations say refer to architectural but no architectural drawings are provided. For example, we are unable to determine the screen wall height without elevations.

A: Please see attached PDF with clarification

Q: Sheet S1.2D along 25-line between R and U-line shows two beam sizes at one location. What beam is to be used or are both needed but at different elevations. Please clarify.

A: Two beams are required. One is at the high roof along line 25, one is to support the W12x26 on Line T.

Q: Are any steel members to be fireproofed or should all steel be prime painted?

A: No fireproofing, prime paint all.

Q: Do the #4 x 7' @ 16" oc bars at the slab on metal deck go over the beams or girders or both? the detail 16/S6.1 calls out beams but the note on sheet S1.2E calls out placing them at girders. please advise.

A: Reinforcing is only at girders.

Q: Just verifying i am reading this correctly. The column isolations will be at least 2 feet thick where there is no pier?

A: Correct

Q: do the HHS 2-1/2x2-1/2x3/16 between joist (ref. S1.2A) apply to all Zones?

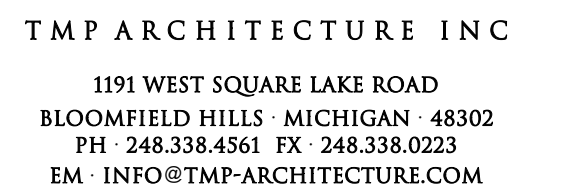
A: HSS between joist applies at all interior load bearing CMU walls with joists bearing on top of wall, typical all zones. Locations with HSS between joists at steel beams are noted on the plans/details, but are not applicable if not noted.

Q: Please verify roof screen wall height relative to top of deck/top of screen wall (ref. section 19/S6.1). Need to know how long the screen wall post will be +/- roof slope.

A: See attached PDF with the screen wall T.O.S. Friday. Screenwall post length will verify depending on location and roof steel slope, top of screenwall elevation is constant and as noted on the markup.

Q: on sheet S6.5 it appears the stadium seating infill is shaded differently than the pan filled stairs. i have seen where the stadium seating is a precast type plank. is that the case here or is the stadium seating filled with concrete?

A: Basis of bid for stadium seating (Learning Stair) is metal deck w/ concrete, please disregard different shading.



REGISTRATION SEAL

CONSULTANT



PROJECT TITLE

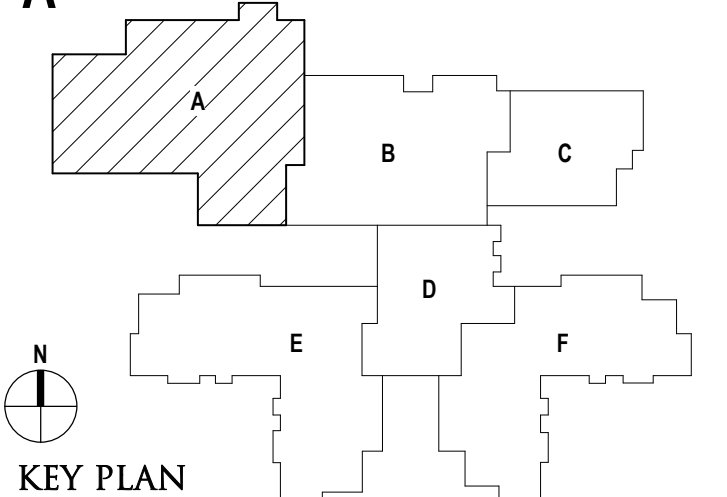
NEW SMITH MIDDLE SCHOOL

Bid Package No. 03A

Troy School District
Troy, Michigan

DRAWING TITLE

Low Roof Framing Plan Zone 'A'



ISSUE DATES

[illegible]

02-08-2024	ADDENDUM NO. 2
01-23-2024	CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN D. BART

CHECKED B. KANNERS

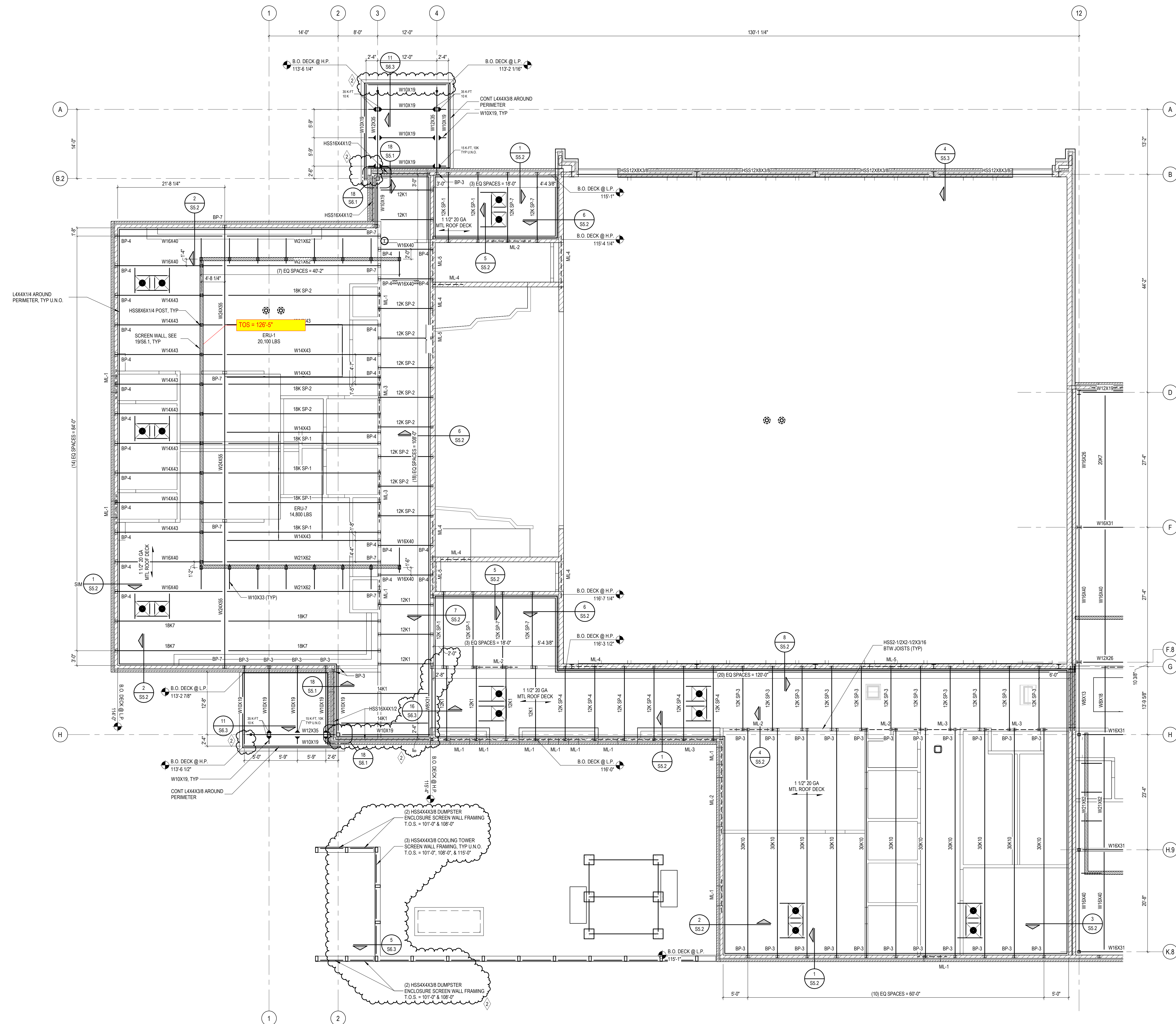
APPROVED E MANNOR

PROJECT NO.

22102

DRAWING NO.

S1.2A



NOTES:

- 1. SEE S5.1 FOR TYPICAL LOCAL INTEL. SCHEDULE U.N.O.. SEE ARCH FOR OPENING SIZES AND LOCATIONS.
- 2. SEE S5.1 FOR TYPICAL LOCAL INTEL. SCHEDULE U.N.O.. SEE ARCH FOR OPENING SIZES AND LOCATIONS.
- 3. JOIST MANUFACTURER SHALL DESIGN ALL JOIST / BRIDGING FOR A NET UPLIFT PER UPLIFT DIAGRAMS, SEE S3.1.
- 4. REFER TO S3.1 FOR SPECIAL JOIST LOAD DIAGRAM.
- 5. SEE DRAWING S3.1 FOR ROOF DECK ATTACHMENT DETAIL.
- 6. INDICATES MOMENT CONNECTION. DESIGN CONNECTION FOR LOADS SHOWN. LOADS ARE IN LRFD.
- 7. SEE 456.1 FOR RTU SUPPORT FRAME. COORDINATE ALL RTU AND OPENING DIMENSIONS WITH MECHANICAL.
- 8. SEE S6.1 FOR COLUMN AND BEARING PLATE SCHEDULES.
- 9. MASONRY SHOWN FOR REFERENCE. MASONRY BID DOCUMENTS HAVE NOT YET BEEN REVIEWED.

LRFD SHEAR REACTIONS	
SIZE	SIZE
W8	15 KIPS
W10	15 KIPS
W12	25 KIPS
W14	25 KIPS
W16	40 KIPS
W18	50 KIPS
W21	55 KIPS
W24	65 KIPS

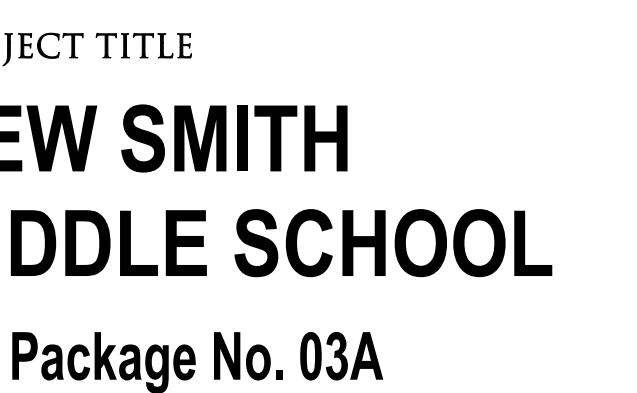
NOTE:
DESIGN ALL SHEAR CONNECTIONS
FOR LOADS IN ABOVE TABLE U.N.O.

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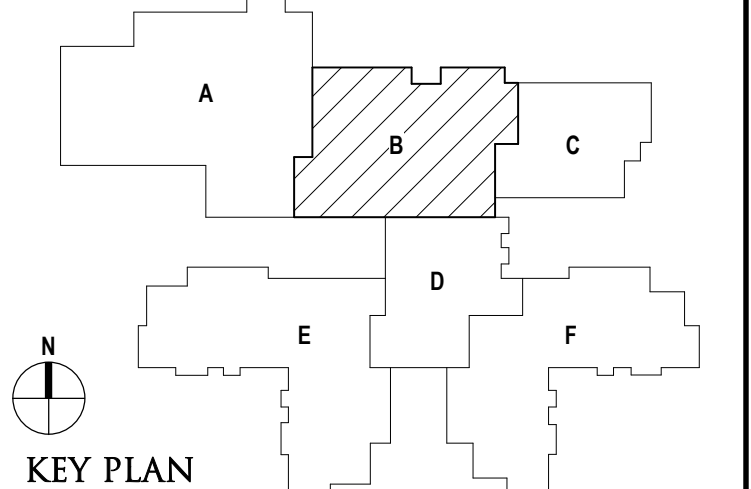
CONSULTANT



Troy School District
Troy, Michigan

DRAWING TITLE

Low Roof Framing Plan Zone 'B'



ISSUE DATES

[illegible]

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01-23-2024	CONSTRUCTION DOCUMENTS

DATE:	ISSUED FOR:
DRAWN	D. BART

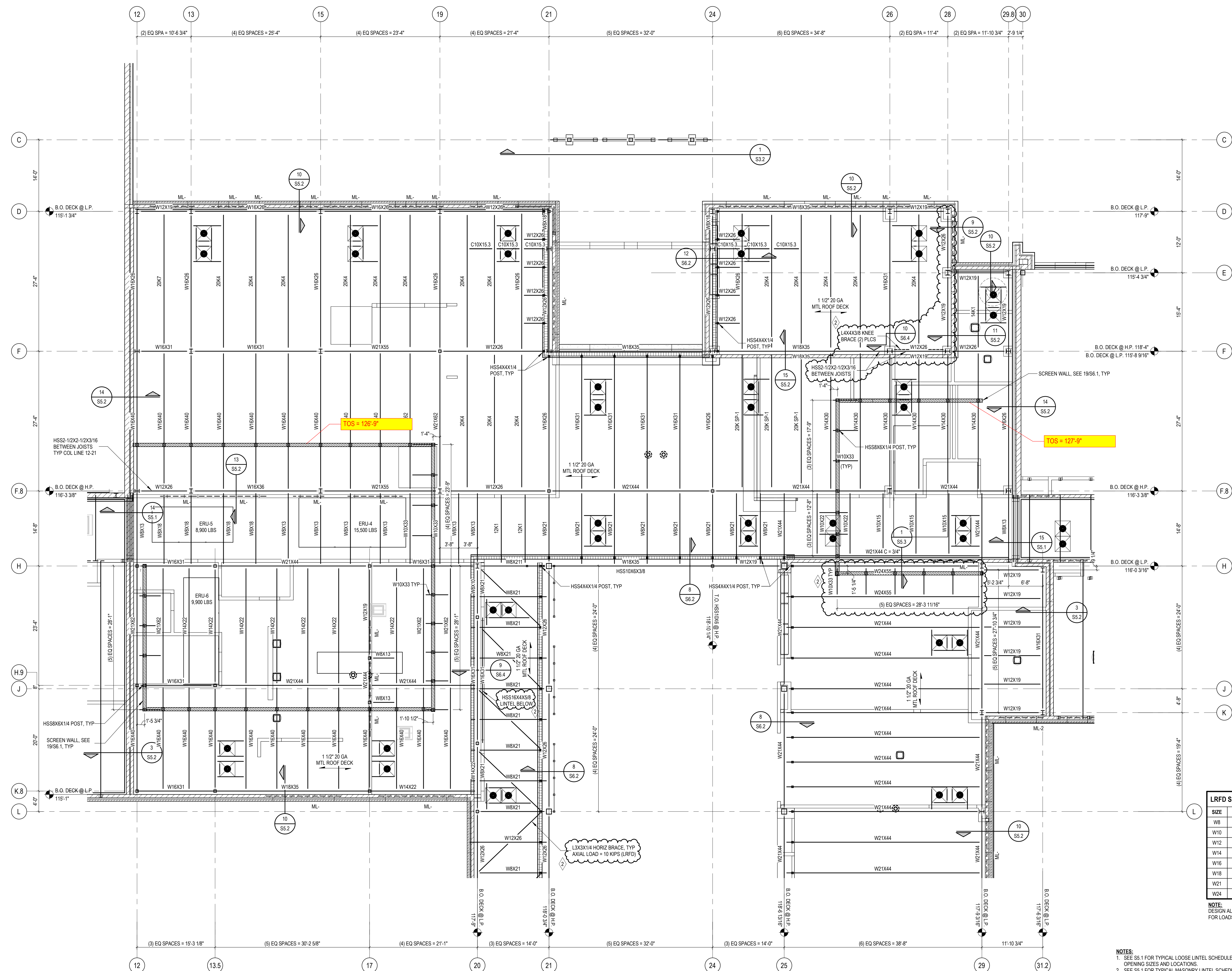
CHECKED **B. KANNERS**

PROJECT NO.

22102

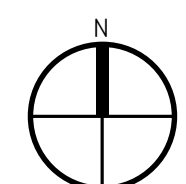
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S1.2B

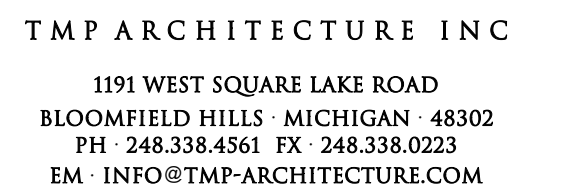


NOTES:

1. SEE S5.1 FOR TYPICAL LOADS UNTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
2. SEE S5.1 FOR TYPICAL MASONRY UNTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
3. JOIST MANUFACTURER SHALL DESIGN ALL JOIST / BRIDGING FOR A NET UPLIFT PER UPLIFT DIAGRAMS, SEE S3.1.
4. REFER TO S3.1 FOR SPECIAL JOIST LOAD DIAGRAMS.
5. SEE DRAWINGS S3.1 FOR ROOF DECK ATTACHMENT DETAIL.
6. A INDICATES MOMENT CONNECTION, DESIGN CONNECTION FOR LOADS SHOWN, LOADS ARE IN L&R.
7. SEE 438.1 FOR TYP. RTU SUPPORT FRAME. COORDINATE ALL RTU AND OVERALL DIMENSIONS WITH MECHANICAL.
8. SEE S6.1 FOR COLUMN AND BEARING PLATE SCHEDULES.
9. MASONRY SHOWN FOR REFERENCE. MASONRY BID DOCUMENTS HAVE NOT YET BEEN ISSUED.



LOW ROOF FRAMING PLAN – ZONE 'B'



REGISTRATION SEAL

CONSULTANT

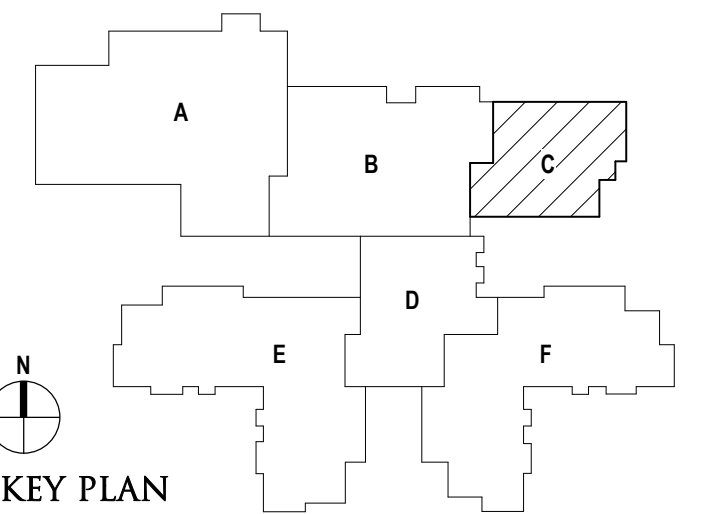


PROJECT TITLE
**NEW SMITH
MIDDLE SCHOOL**
Bid Package No. 03A

Troy School District
Troy, Michigan

DRAWING TITLE

Roof Framing Plan Zone 'C'



ISSUE DATES

[illegible]

02-08-2024	ADDENDUM NO. 2
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DATE: ISSUED FOR:

DRAWN D. BART

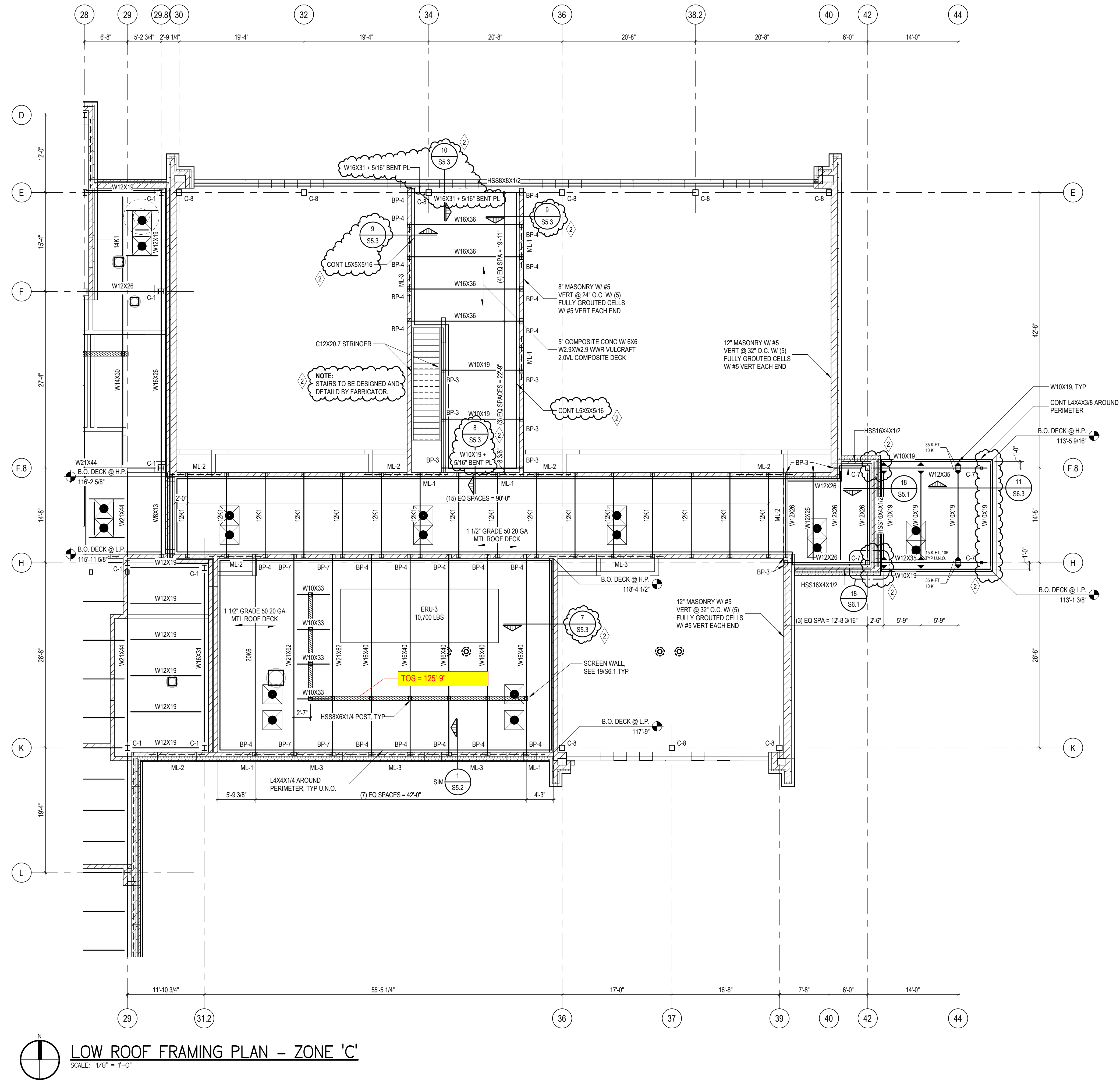
CHECKED B. KANNERS

PROJECT NO.

22102

DRAWING NO.

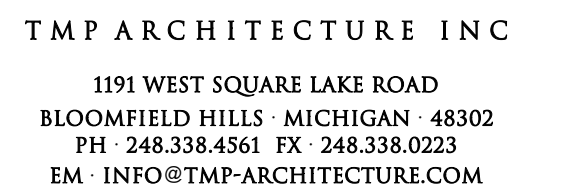
S1.2C



SIZE	SIZE
W8	15 KIPS
W10	15 KIPS
W12	25 KIPS
W14	25 KIPS
W16	40 KIPS
W18	50 KIPS
W21	55 KIPS
W24	65 KIPS

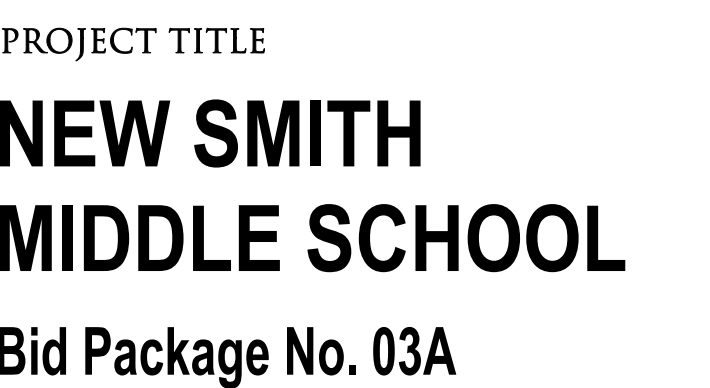
NOTE:
DESIGN ALL SHEAR CONNECTIONS
FOR LOADS IN ABOVE TABLE U.N.O.

- NOTES:**
- SEE S5.1 FOR TYPICAL LOOSE LINTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
 - SEE S5.1 FOR TYPICAL MASONRY LINTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
 - JOIST MANUFACTURER SHALL DESIGN ALL JOIST / BRIDGING FOR A NET UPLIFT PER UPLIFT DIAGRAMS, SEE S3.1.
 - REFER TO S3.1 FOR SPECIAL JOIST LOAD DIAGRAMS.
 - SEE DRAWING S3.1 FOR ROOF DECK ATTACHMENT DETAIL.
 -  INDICATES MEMO CONNECTION. DESIGN CONNECTION FOR LOADS WITHIN. LOADS TO BE SHOWN.
 - SEE A36.1 FOR RTU RYTP SUPPORT FRAME. COORDINATE ALL RTU AND OPENING DIMENSIONS WITH MECHANICAL.
 - SEE S6.1 FOR COLUMN AND BEARING PLATE SCHEDULES.
 - MASONRY SHOWN FOR REFERENCE. MASONRY BID DOCUMENTS HAVE NOT YET BEEN ISSUED.



REGISTRATION SEAL

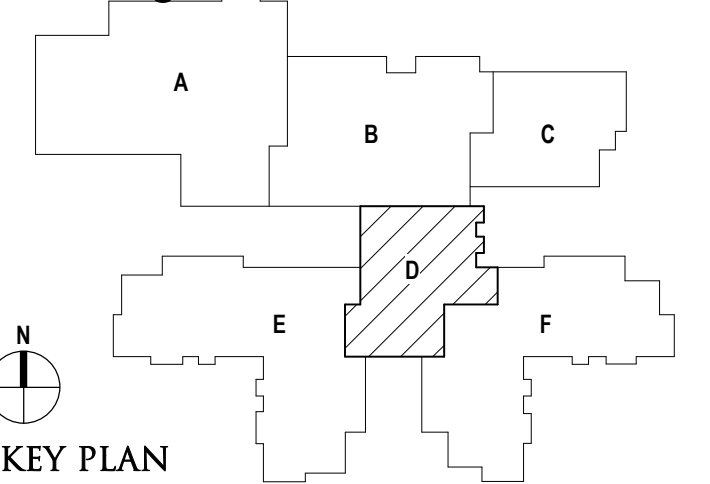
CONSULTANT



Troy School District
Troy, Michigan

DRAWING TITLE

**Second Floor / Low Roof
Framing Plan Zone 'D'**



ISSUE DATES

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01-23-2024	CONSTRUCTION DOCUMENTS

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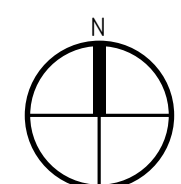
DRAWN	D. BART
CHECKED	B. KANNERS
APPROVED	E. MANNOR

PROJECT NO.

22102

DRAWING NO.

S1.2D



SECOND FLOOR / LOW ROOF FRAMING PLAN – ZONE 'D'

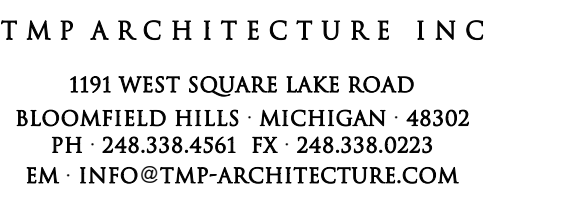
LRFD SHEAR REACTIONS	
SIZE	SIZE
W8	15 KIPS
W10	15 KIPS
W12	25 KIPS
W14	25 KIPS
W16	40 KIPS
W18	50 KIPS
W21	55 KIPS
W24	65 KIPS

NOTE:
DESIGN ALL SHEAR CONNECTIONS
FOR LOADS IN ABOVE TABLE U.N.O.

NOTE:
SHEAR CONNECTORS FOR COMPOSITE BEAMS
SHALL BE 3/4" Ø X 3 1/2" LONG. LENGTH INDICATED
SHALL BE THE FINAL LENGTH AFTER WELDING.
SEE TYPICAL DETAILS FOR PLACEMENT.

NOTES:

- 1. SEE S3.1 FOR TYPICAL LOOSE LINTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
- 2. SEE S3.1 FOR TYPICAL LOOSE LINTEL SCHEDULE U.N.O., SEE ARCH FOR OPENING SIZES AND LOCATIONS.
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- 4. REFER S3.1 FOR SPECIAL JOIST LIFT LOAD DIAGRAMS.
- 5. SEE DRAWING S3.1 FOR ROOF DECK ATTACHMENT DETAIL.
- 6. INDICATES MOMENT CONNECTION, DESIGN CONNECTION FOR LOADS SHOWN, LOADS ARE IN LIFT.
- 7. SEE 458.1 FOR RTU AND SUPPORT FRAME, COORDINATE ALL RTU AND OPENING DIMENSIONS WITH MECHANICAL.
- 8. SEE S6.1 FOR COLUMN AND BEARING PLATE SCHEDULES.
- 9. SEE S6.1 FOR BEARING PLATE REFERENCE. MASONRY BID DOCUMENTS HAVE NOT YET BEEN ISSUED.



REGISTRATION SEAL

CONSULTANT

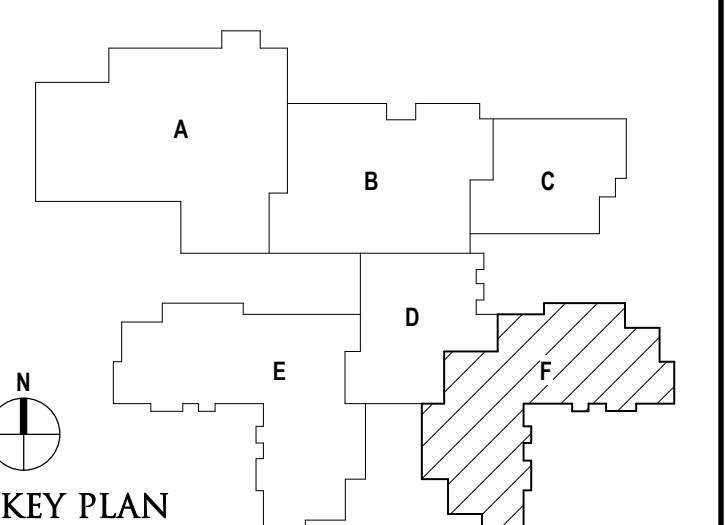


PROJECT TITLE
**NEW SMITH
MIDDLE SCHOOL**
Bid Package No. 03A

Troy School District
Troy, Michigan

DRAWING TITLE

Roof Framing Plan Zone 'F'



ISSUE DATES

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02-08-2024 ADDENDUM NO. 2

01-23-2024 CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN D. BART

CHECKED ☐ R. KANNERS

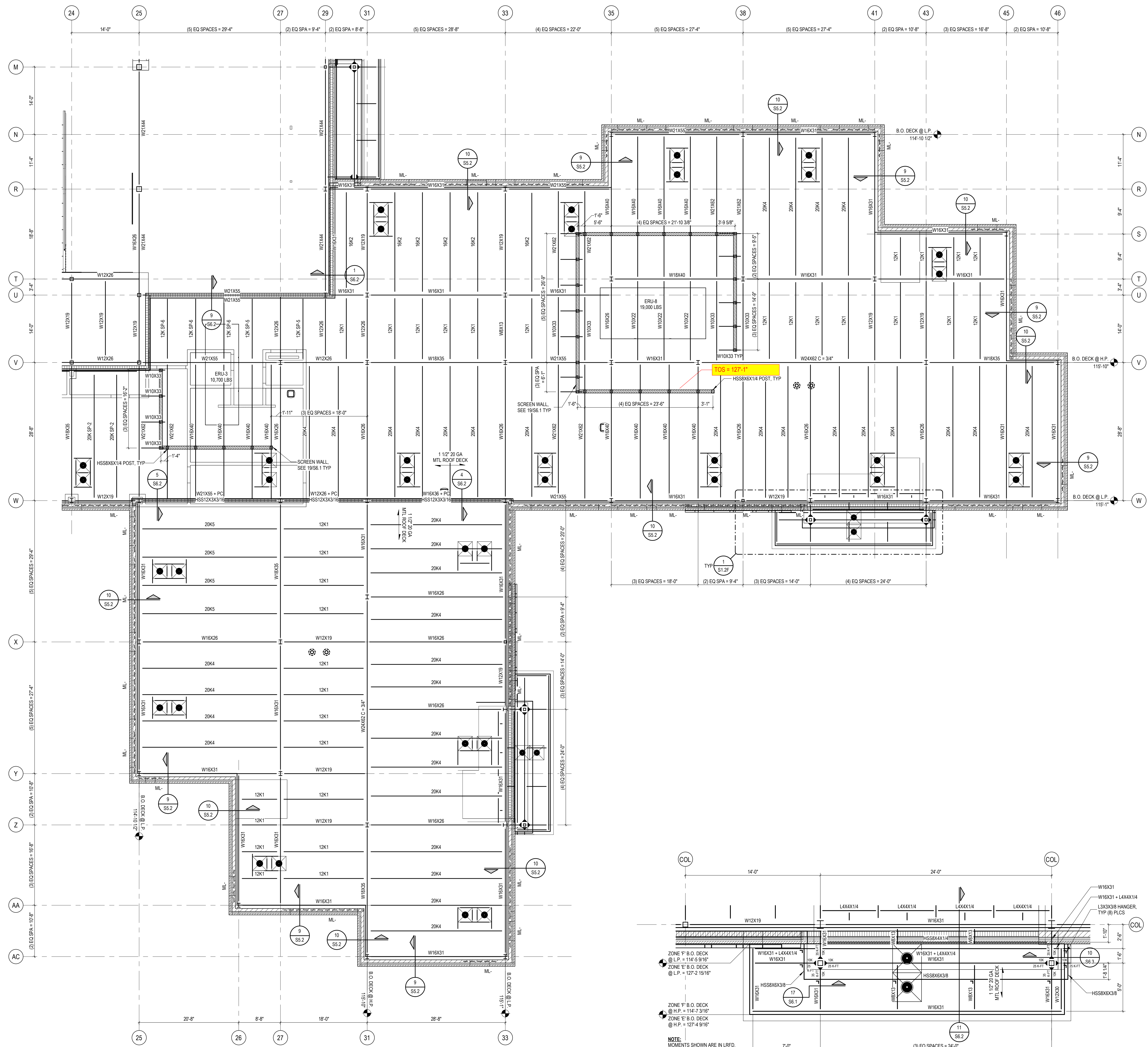
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PROJECT NO.

22102

DRAWING NO.

S1.2F



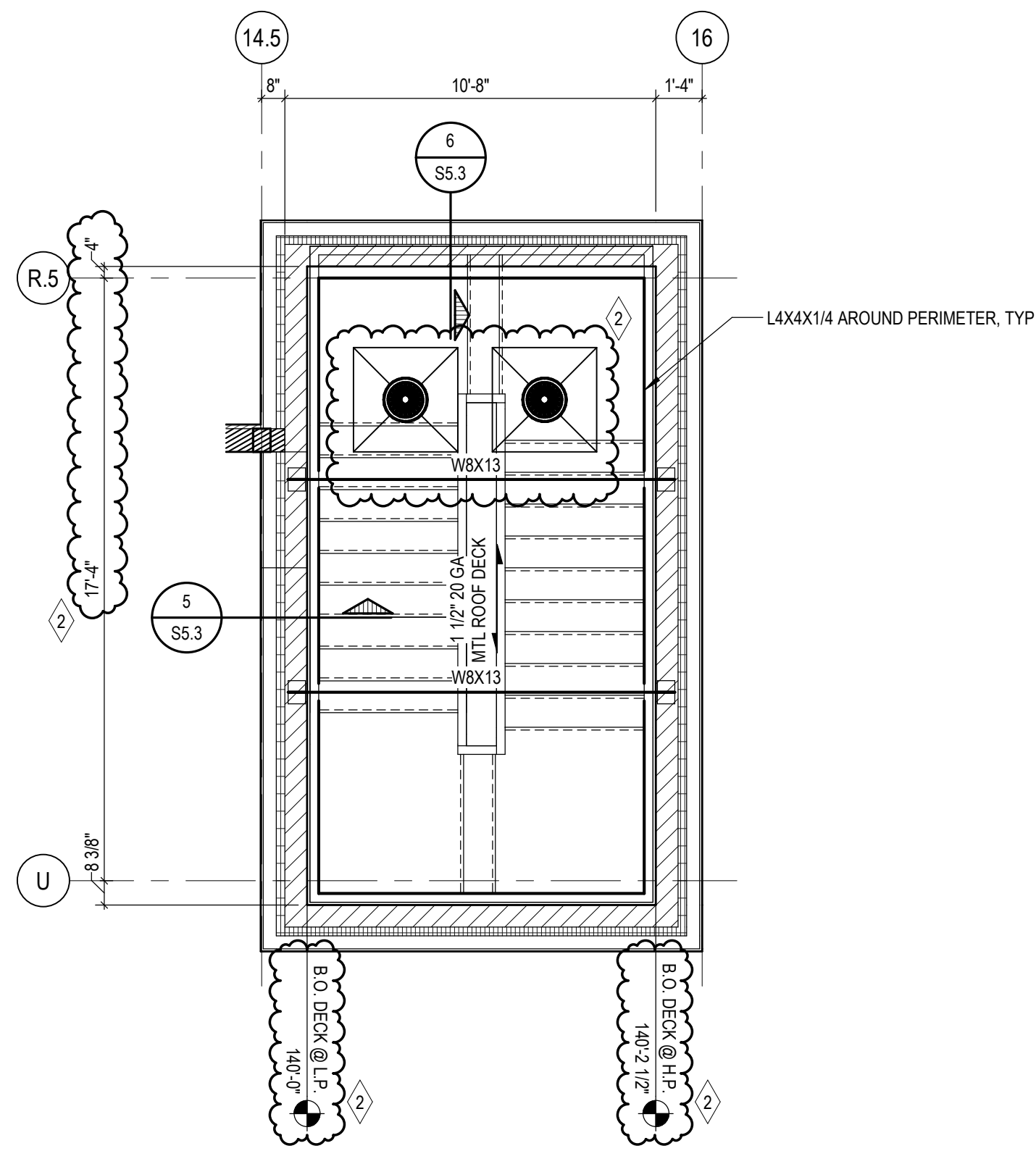
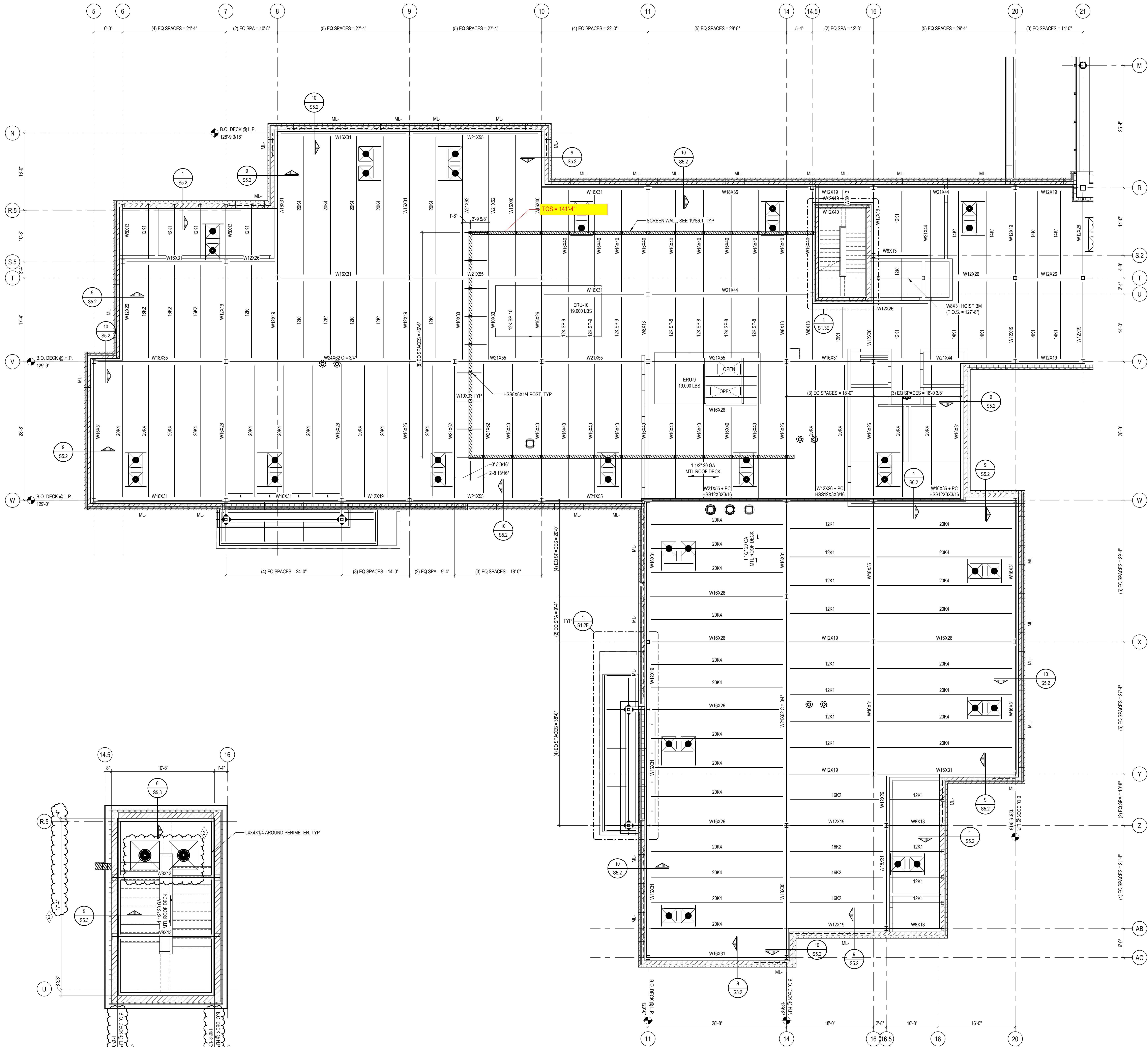
SIZE	SIZE
W8	15 KIPS
W10	15 KIPS
W12	25 KIPS
W14	25 KIPS
W16	40 KIPS
W18	50 KIPS
W21	55 KIPS
W24	65 KIPS

NOTE:
DESIGN ALL SHEAR CONNECTIONS
FOR LOADS IN ABOVE TABLE U.N.O.

NOTES:

1. SEE S3.1 FOR TYPICAL LOOSE LINTEL SCHEDULE U.N.O.. SEE ARCH FOR OPENING SIZES AND LOCATIONS.
2. SEE S3.1 FOR TYPICAL MASONRY LINTEL SCHEDULE U.N.O.. SEE ARCH FOR OPENING SIZES AND LOCATIONS.
3. JOIST MANUFACTURER SHALL DESIGN ALL JOIST / BRIDGING FOR A NET UPLIFT PER UPLIFT DIAGRAMS. SEE S3.1.
4. REFER TO S3.1 FOR SPECIAL JOIST LOAD DIAGRAMS.
5. SEE DRAWING S3.1 FOR ROOF DECK ATTACHMENT DETAIL.
6. INDICATES MOMENT CONNECTION. DESIGN CONNECTION FOR LOADS SHOWN. LOADS ARE IN LFD.
7. SEE ARCH FOR RTU PORT FRAME. COORDINATE ALL RTU AND OPENING DIMENSIONS WITH MECHANICAL.
8. SEE S6.1 FOR COLUMN AND BEARING PLATE SCHEDULES.
9. MASONRY SHOWN FOR REFERENCE. MASONRY BID DOCUMENTS HAVE NOT YET BEEN ISSUED.

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1 STAIR ROOF FRAMING PLAN - ZONE 'E'
S1.3E SCALE: 1/4" = 1'-0"

HIGH ROOF FRAMING PLAN - ZONE 'E'
SCALE: 1/8" = 1'-0"

LRFD SHEAR REACTIONS	
SIZE	SIZE
W8	15 KIPS
W10	15 KIPS
W12	25 KIPS
W14	25 KIPS
W16	40 KIPS
W18	50 KIPS
W21	55 KIPS
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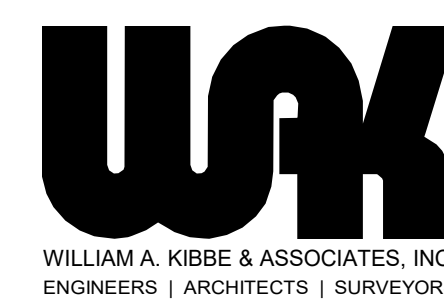
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 - MASONRY SHOWN FOR REFERENCE, MASONRY BID DOCUMENTS HAVE NOT YET BEEN ISSUED.



TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS, MICHIGAN 48302
PH: 248.338.4561 FX: 248.338.0223
EM: INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT



WILLIAM A. KIRBE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS | SURVEYORS

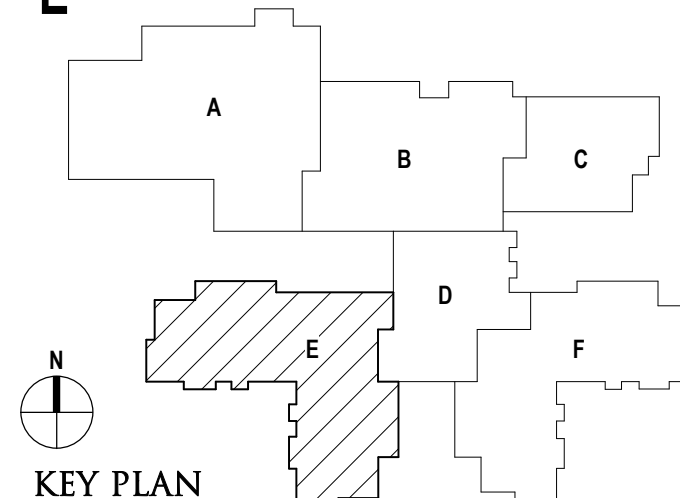
PROJECT TITLE

**NEW SMITH
MIDDLE SCHOOL**
Bid Package No. 03A

**Troy School District
Troy, Michigan**

DRAWING TITLE

**High Roof Framing Plan Zone
'E'**



KEY PLAN

ISSUE DATES

DATE	ISSUED FOR:
02-08-2024	ADDENDUM NO. 2
01-23-2024	CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN: D. BART

CHECKED: B. KANNERS

APPROVED: E. MANNOR

PROJECT NO.

22102

DRAWING NO.

S1.3E