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1 GENERAL NOTES

- 1.1. CODES AND DESIGN CRITERIA
  - a BUILDING CODE: 2017 OHIO BUILDING CODE (IBC 2015)
  - b RISK CATEGORY II
  - c THE STRUCTURAL FRAMING INDICATED ON THE FOLLOWING STRUCTURAL DOCUMENTS ARE TENANT IMPROVEMENTS TO AN EXISTING STRUCTURE. STRUCTURAL IMPROVEMENTS ARE DESIGNED IN ACCORDANCE WITH THE BUILDING CODE NOTED ABOVE AND SECTION 3403.2 OF IBC 2015. ALL EXISTING FRAMING SHOWN IS BASED ON THE ORIGINAL STRUCTURAL DESIGN DRAWINGS PREPARED BY CENTER RIDGE DESIGN SERVICES INC. P.A., DATED AUGUST 6, 1988. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING CONDITIONS INCLUDING ALL DIMENSIONS AND ELEVATIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DESIGN DOCUMENTS. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- 1.2. DESIGN LOADS
  - a ROOF LOAD
    - DEAD LOAD 25 PSF
    - LIVE LOAD 30 PSF
  - b SNOW LOAD
    - GROUND SNOW LOAD Pg 20 PSF
    - IMPORTANCE FACTOR Is 1.0
    - SNOW EXPOSURE FACTOR Ce 1.0
    - SNOW THERMAL FACTOR Ct 1.0
    - FLAT ROOF SNOW LOAD Pf 20 PSF
  - e WIND LOADS (ASCE7-10)
    - MWFRS
      - BASIC WIND SPEED 115 mph (3 SEC GUST)
    - RISK CATEGORY II
    - WIND EXPOSURE B
    - INTERNAL PRESSURE COEFFICIENT +/- .18
    - f SEISMIC LOADS
      - RISK CATEGORY II
      - SEISMIC IMPORTANCE FACTOR I.0
      - Ss .134 Sds 0.143
      - SI 0.055 Sdi 0.089
      - SITE CLASS D
- 1.3 GENERAL REQUIREMENTS
  - a DEFINITIONS
    - PRIMARY STRUCTURAL SYSTEM IS THE COMPLETED COMBINATION OF ELEMENTS WHICH SERVE TO SUPPORT THE BUILDING'S SELF-WEIGHT, THE APPLICABLE LIVE LOAD, AND THE ENVIRONMENTAL LOADS SUCH AS WIND. SEISMIC PRE-ENGINEERED STRUCTURAL ELEMENTS ARE STRUCTURAL ELEMENTS WHICH ARE SPECIFIED BY THE OWNER AS DESIGN DELEGATED ITEMS TO BE THE DESIGN RESPONSIBILITY OF A SPECIALTY STRUCTURAL ENGINEER (SSE) SPECIAL INSPECTION IS INSPECTION PERFORMED BY A QUALIFIED PERSON, APPROVED BY THE BUILDING OFFICIAL, FOR THE TYPES OF WORK REQUIRING INSPECTION PER THE GOVERNING CODES AND CONTRACT DOCUMENTS. SPECIALTY STRUCTURAL ENGINEER (SSE) IS A LICENSED PROFESSIONAL/STRUCTURAL ENGINEER, NOT THE SER, WHO IS RESPONSIBLE FOR SEALING PLANS AND DESIGNS FOR PRE-ENGINEERED STRUCTURAL ELEMENTS WHICH ARE NECESSARY FOR THE STRUCTURE TO BE COMPLETED AND THE OWNER HAS DESIGNATED AS DESIGN DELEGATED ITEMS. STRUCTURAL ENGINEER OF RECORD (SER) IS THE STRUCTURAL ENGINEER WHO IS LEGALLY ELIGIBLE TO SEAL THE STRUCTURAL DOCUMENTS FOR A BUILDING PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM DESIGNATED REPRESENTATIVE FOR CONSTRUCTION (DRC) - I.E., CONSTRUCTION MANAGER OR GENERAL CONTRACTOR) IS RESPONSIBLE FOR THE OVERALL CONSTRUCTION OF THE PROJECT INCLUDING PROJECT SCHEDULING, JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION. SPECIAL INSPECTOR: A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY AND APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT.
    - b THE DRC SHALL COORDINATE WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS AND WITH THE MECHANICAL CONTRACTOR, THE LOCATION OF ALL MECHANICAL EQUIPMENT.
    - d THE DRC SHALL NOTIFY THE ARCHITECT IF THE WEIGHTS OF MECHANICAL UNITS ETC. ARE DIFFERENT FROM THE WEIGHTS POSTED ON THE DESIGN DRAWINGS. DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH CONSTRUCTION.
    - e THE DRC SHALL NOTIFY THE ARCHITECT IF THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES TO AVOID THE POSSIBILITY OF UNNECESSARY FUTURE PROBLEMS AND POSSIBLE FIELD ORDERS. FAILURE TO DO SO WILL PUT THE FULL RESPONSIBILITY OF CORRECTION ON THE DRC.
    - f THE DRC SHALL COORDINATE THE WORK OF ALL TRADES AND MAKE NECESSARY INVESTIGATIONS AND FIELD MEASUREMENTS.
    - g DO NOT SCALE DRAWINGS.
    - h THE SER HAS NO SUPERVISORY RESPONSIBILITY, HAS NO CONTROL OF OR RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCE OF CONSTRUCTION, HAS NO RESPONSIBILITY FOR THE FAILURE OF ANY CONTRACTOR TO PERFORM THE WORK IN ACCORDANCE WITH THE DESIGN DOCUMENTS AND NO RESPONSIBILITY TO DEVISE, IMPLEMENT OR ENFORCE ANY SAFETY PRECAUTIONS OR PROGRAMS FOR THE PROJECT
  - 1.4 SLEEVES, ANCHORAGES, OPENINGS, ETC.
    - a IN GENERAL, STRUCTURAL DRAWINGS DO NOT SHOW EQUIPMENT PADS, DRAINS, HOLES, ANCHORAGES, INSERTS AND SLEEVES FOR ITEMS PASSING THROUGH OR ATTACHED TO CONCRETE OR FRAMING. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND PROJECT SPECIFICATIONS. ADJUST EQUIPMENT PADS AND SUB FRAMING TO FIT EQUIPMENT FURNISHED.
    - b PROVIDE SUB FRAMING FOR EQUIPMENT SUPPORTED ON OR SUSPENDED FROM THE STRUCTURE.
  - 1.5 STRUCTURAL STABILITY AND CONSTRUCTION
    - a INDIVIDUAL STRUCTURAL COMPONENTS ARE DESIGNED TO SUPPORT LOADS IN THEIR FINAL ERECTED POSITION AS PART OF THE TOTAL COMPLETED STRUCTURE.
    - b DRC TO PROVIDE TEMPORARY GUYING AND BRACING AS REQUIRED UNTIL ALL CONSTRUCTION AFFECTING LATERAL STABILITY IS COMPLETED.
    - c DRC SHALL BE SOLELY RESPONSIBLE FOR STABILITY OF STRUCTURE, ITS PARTS BY USE OF GUYING, BRACING, SHORING, BARRICADES, SAFETY RAILINGS AND DEVICES DURING THE ENTIRE PERIOD OF CONSTRUCTION.
    - d DRC SHALL BE SOLELY RESPONSIBLE FOR ALL JOB SITE SAFETY AND MEANS AND METHOD OF CONSTRUCTION.
  - 1.6 SHOP DRAWINGS AND TEST REPORTS
    - a DRC SHALL CHECK ALL SHOP DRAWINGS BEFORE SUBMITTAL TO SER FOR REVIEW.
    - b DRC SHALL PREPARE A SHOP DRAWING SUBMITTAL SCHEDULE WITH A MINIMUM OF TWO WEEKS INCLUDED FOR THE SER'S REVIEW OF EACH SUBMITTAL LISTED BELOW.
    - c REVIEW BY SER WILL BE FOR CONFORMANCE TO GENERAL LAYOUT AND DESIGN INTENT ONLY.
    - d CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ACCURACY OF DIMENSIONS, FABRICATION, FIT UP OF PARTS AND BILLS OF MATERIALS.
    - e CONTRACTOR SHALL COORDINATE WORK OF VARIOUS TRADES AND MAKE NECESSARY FIELD MEASUREMENTS.
    - f THE CONTRACT SPECIFICATIONS PROVIDE A COMPLETE LISTING OF SUBMITTALS. THE FOLLOWING IS A SUMMARY OF THE REQUIRED SUBMITTALS:
      - STRUCTURAL STEEL
        - STRUCTURAL STEEL SHOP DRAWINGS
        - CONNECTION DESIGN SIGNED AND SEALED BY LICENSED SSE.
      - MISCELLANEOUS METALS (STAIRS/HANDRAIL/GUARD RAIL/LADDERS ETC.)
        - STRUCTURAL STEEL SHOP DRAWINGS
        - DESIGN CALCULATIONS SIGNED AND SEALED BY LICENSED SSE
  - 1.7 DEFERRED SUBMITTALS - OWNER SPECIFIED DESIGN DELEGATED COMPONENTS
    - a CERTAIN COMPONENTS OF THE COMPLETED CONSTRUCTION ARE DESIGN DELEGATED TO THE MANUFACTURER OF THE COMPONENT. THE MANUFACTURER'S SSE SHALL BE RESPONSIBLE FOR THE DESIGN OF THE COMPONENT. THE FOLLOWING ARE DESIGNATED TO BE DESIGN DELEGATED COMPONENTS ON THIS PROJECT:
      - b STRUCTURAL STEEL CONNECTIONS
      - c MISCELLANEOUS METALS (STAIRS, GUARDRAIL, HANDRAIL, LADDERS, ETC.)
      - d OTHER WORK AS LISTED ON DRAWINGS, SPECIFICATIONS AND CUSTOMARY INDUSTRY STANDARDS, WHERE DELEGATION OF DESIGN IS SPECIFIED.
      - e THE MANUFACTURER SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A LICENSED SPECIALTY STRUCTURAL ENGINEER (SSE) IN THE STATE HAVING JURISDICTION. THE SSE SHALL DESIGN AND DETAIL COMPONENTS TO MEET GOVERNING BUILDING CODES, STANDARDS AND THE SPECIFIED PERFORMANCE CRITERIA. SIGNED AND SEALED CALCULATIONS SHALL BE SUBMITTED FOR RECORD. THE DESIGN DELEGATED SSE SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN OF THE COMPONENT.
      - f SSE SUBMITTALS WILL BE REVIEWED BY THE SER FOR LOADING CRITERIA AND GENERAL CONFORMANCE TO THE PRIMARY STRUCTURAL SYSTEM.
  - 1.8 DEMOLITION
    - a THE ARCHITECTURAL/STRUCTURAL DEMOLITION DRAWINGS INDICATE THE GENERAL AREAS OF DEMOLITION. THE DRC SHALL VERIFY IN THE FIELD ALL ITEMS TO BE REMOVED TO MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

- b THE DRC SHALL CAREFULLY REMOVE ONLY THE EXISTING ITEMS IDENTIFIED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- c IN NO CASE SHALL THE REMOVAL OF ANY PORTION OF THE EXISTING STRUCTURE BE PERFORMED IN SUCH A WAY AS TO AFFECT THE STRUCTURAL INTEGRITY OF THE REMAINING PORTION OF THE BUILDING.
- d THE CONTRACTOR SHALL NOTIFY THE SER IMMEDIATELY OF ANY STRUCTURAL ITEMS WHICH NEED TO BE DEMOLISHED BUT ARE NOT CLEARLY IDENTIFIED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS.
- e THE CONTRACTOR SHALL MINIMIZE THE EXTENT OF THE DEMOLITION TO THE EXISTING STRUCTURE TO ONLY THAT REQUIRED TO INSTALL THE NEW BUILDING MODIFICATIONS.

1.9 STRUCTURAL TESTS AND INSPECTIONS (IBC 2018)

- a AN INDEPENDENT APPROVED AGENCY SHALL PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION IN ACCORDANCE WITH CHAPTER 17 OF IBC 2018.
- b THE APPROVED AGENCY'S SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- c THE APPROVED AGENCY SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SUBMIT REPORTS TO THE BUILDING OFFICIAL AND THE SER.
- d ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DRC FOR CORRECTION. IF UNCORRECTED, THE APPROVED AGENCY SHALL NOTIFY THE BUILDING OFFICIAL AND THE SER.
- e REFER TO IBC 2018 1704.5 FOR SUBMITTALS TO THE BUILDING OFFICIAL IN ADDITION TO THE REPORTS.
- f THE APPROVED AGENCY SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED CONTRACT DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE.
- g QUALITY CONTROL SHALL BE THE RESPONSIBILITY OF THE FABRICATOR/ERECTOR IN ACCORDANCE WITH AISC360-10 CHAPTER N.
- h JOB SITE VISITS BY THE SER DO NOT CONSTITUTE AN OFFICIAL SPECIAL INSPECTION.

STATEMENT OF SPECIAL INSPECTIONS:

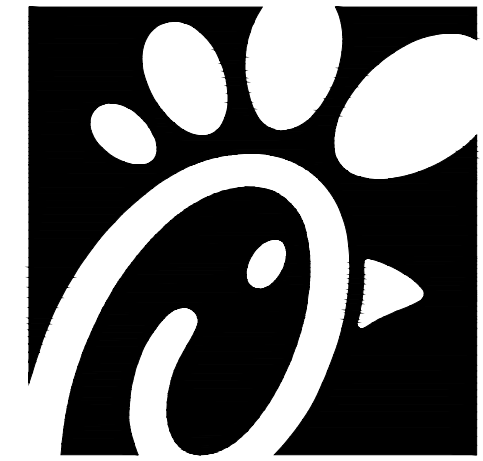
- a REFER TO THE REFERENCED DOCUMENTS (IBC 2018 CHAPTER 17, AISC 360-10 CHAPTER N, ACI308-13 CHAPTER 3) FOR ADDITIONAL DESCRIPTIONS OF REQUIREMENTS.
- b STRUCTURAL OBSERVATIONS FOR SEISMIC NOT REQUIRED
- c STRUCTURAL OBSERVATIONS FOR WIND NOT REQUIRED
- d THE FOLLOWING LIST OF MATERIALS AND WORK REQUIRE SPECIAL INSPECTIONS (P) PERIODIC, (C) CONTINUOUS

STRUCTURAL STEEL (1705.2 - AISC360-10 CHAPTER N)

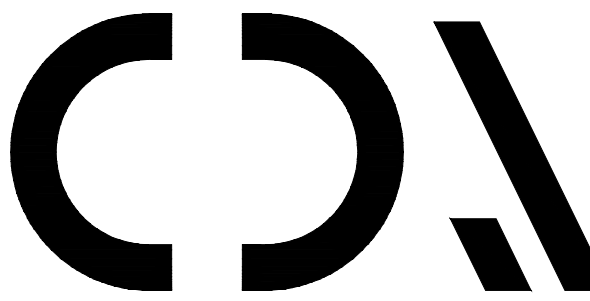
- 1 INSPECTION TASKS PRIOR TO WELDING SHOP/FIELD (AISC360-10 TABLE N5.4-1 & AWS D1.1)
  - a REVIEW WELDING PROCEDURE SPECIFICATIONS (WPS) & WELDING CONSUMABLES (C)
  - b FIT UP GROOVE AND FILLET WELDS (P)
  - c CONFIGURATION OF ACCESS HOLES (P)
- 2 INSPECTION TASKS DURING WELDING SHOP/FIELD (AISC360-10 TABLE N5.4-2 & AWS D1.1)
  - a QUALIFIED WELDERS (C)
  - b CONTROL AND HANDLING OF CONSUMABLES (C)
  - c NO WELDING OVER TACK WELDS (C)
  - d ENVIRONMENTAL CONDITIONS (C)
  - e WPS FOLLOWED (C)
  - f WELDING TECHNIQUES (C)
  - 3 INSPECTION TASKS AFTER WELDING SHOP/FIELD (AISC360-10 TABLE N5.4-3 & AWS D1.1)
    - a WELDS CLEANED (C)
    - b SIZE, LENGTH, LOCATION OF WELDS (C)
    - c WELDS MEET VISUAL ACCEPTANCE CRITERIA (C)
    - d C/P GROOVE WELD NOT PER AWS D1.1 (C)
    - 4 INSPECTION TASKS PRIOR TO BOLTING (AISC360-10 TABLE N5.6-1)
      - a BOLT MATERIAL GRADE
      - b PROPER FASTENERS USED PER CONTRACT DOCUMENTS (P)
      - c PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL (P)
      - d CONNECTION ELEMENTS INCLUDING FAYING SURFACES MEET REQUIREMENTS (P)
      - e PROPER STORAGE OF FASTENER COMPONENTS (P)
    - 5 INSPECTION TASKS DURING BOLTING (AISC360-10 TABLE N5.6-2)
      - a FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND POSITIONED AS REQUIRED (P)
      - b JOINT BROUGHT TO SNUG TIGHT CONDITION (P)
      - c FASTENER COMPONENT NOT TURNED BY WHEN PREVENTED FROM ROTATING (P)
      - d FASTENERS PRE-TENSIONED PER RCSC SPECIFICATION (P)
      - 6 INSPECTION TASKS AFTER BOLTING (AISC360-10 TABLE N5.6-3)
        - a DOCUMENT ACCEPTED OR REJECTED BOLTED CONNECTIONS (C)
        - 7 INSPECTION OF ANCHOR RODS IN CONFORMANCE WITH CONTRACT DOCUMENTS. (P)
        - 8 INSPECTION OF STEEL FRAME/CONNECTION DETAILS IN CONFORMANCE WITH CONTRACT DOCUMENTS. (P)

5 METALS

- 5.1 STRUCTURAL STEEL
  - a GENERAL
    - ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC 360-10 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS." SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS "2009" CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," 2010 AND AWS D1.1 2010.
    - THE PROVISIONS OF THE ALLOWABLE STRENGTH DESIGN METHOD (ASD) WAS USED AS A BASIS FOR DESIGN. ALL FORCES/REACTIONS INDICATED ON THE DESIGN DOCUMENTS ARE THEREFORE NON-FACTORED ASD FORCES/REACTIONS.
    - THE CONTRACTOR'S STRUCTURAL STEEL DETAILER SHALL PREPARE STEEL ERECTION AND SHOP DRAWINGS IN ACCORDANCE WITH THE GUIDELINES AND GOOD PRACTICES NOTED IN THE AISC "DETAILING FOR STEEL CONSTRUCTION," THIRD EDITION
    - STEEL CONNECTIONS ARE DESIGNATED AS A DESIGN DELEGATED COMPONENT TO BE DESIGNED BY THE DRC'S SSE.
    - SUBMITTALS
      - CHECKED STEEL SHOP DRAWINGS: PREPARED IN ACCORDANCE WITH AISC DETAILING FOR STEEL CONSTRUCTION 3RD ED.
      - CONNECTION CALCULATIONS PREPARED, SIGNED AND SEALED BY DRC'S SSE.
      - MATERIAL CERTIFICATES (UPON REQUEST)
      - WELDING CERTIFICATES (UPON REQUEST)
    - b MATERIALS
      - ALL STRUCTURAL STEEL SHAPES SHALL BE ASTM A992 (Fy=50 ksi)
      - ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A36 (Fy=36 KSI).
      - ALL STRUCTURAL TUBES SHALL BE ASTM A500 GRADE B (Fy=48 KSI).
      - ALL STRUCTURAL PIPES SHALL BE ASTM A33 GRADE B (Fy=35 KSI).
      - ALL ANCHOR RODS ASTM F1554-36
      - ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY 'STRUCTURAL WELDING CODE', AWS D1.1.
      - ALL WELD ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL WELDING SHALL BE TO CLEAN BARE STEEL.
      - PROVIDE FULL SIZE 1/4" SETTING LATES ON 4,000 PSI NON SHRINK GROUT FOR ALL COLUMNS AND (4)-3/4" DIAMETER ASTM F-1554-36 ANCHOR BOLTS, UNLESS NOTED.
      - ERECT ALL MEMBERS WITH NATURAL CAMBER UP, EXCEPT FOR CERTAIN CANTILEVERED MEMBERS. PROVIDE SUB-FRAMING FOR EQUIPMENT SUPPORTED ON OR SUSPENDED FROM THE STRUCTURE.
      - ALL STEEL SHALL BE SHOP COATED WITH FABRICATOR'S STANDARD PRIME PAINT MEETING MPI#79 AS A MINIMUM. MASK SURFACES TO BE FIELD WELDED AND AT BOLT HOLES IN FAYING SURFACES OF SLIP CRITICAL BOLTED CONNECTIONS.
      - CONNECTIONS
        - OPTION 3 OF THE AISC CODE OF STANDARD PRACTICE 303-10 3.12 WHEREBY THE STEEL CONNECTIONS ARE CONSIDERED A DELEGATED DESIGN ELEMENT TO BE DESIGNED BY THE DRC'S SSE IS TO BE FOLLOWED.
        - CONNECTIONS SHOWN ON THE DESIGN DRAWINGS ARE CONCEPTUAL ONLY.
        - CONNECTIONS SHALL BE IN ACCORDANCE WITH AISC 360-10 USING ALLOWABLE STRENGTH (ASD) DESIGN BASIS. POSTED CONNECTION FORCES ARE ASD.
        - DESIGN SHEAR CONNECTIONS FOR THE LARGER OF POSTED FORCES ON THE DESIGN DRAWINGS AND 50% (75% FOR COMPOSITE BEAMS) OF THE MAXIMUM TOTAL LOAD FOR THE SPECIFIED BEAM AND SPAN IN AISC "STEEL CONSTRUCTION MANUAL," TABLE 3-6.
        - DESIGN MOMENT CONNECTIONS FOR FULL MOMENT CAPACITY OF THE MEMBER OR THE POSTED MOMENT ALONG WITH THE SHEAR LOADS NOTED ABOVE.
        - AXIALLY LOADED MEMBERS SHALL BE DESIGNED USING THE POSTED LOADS AND THE AISC UNIFORM FORCE METHOD.
        - ALL SHEAR CONNECTIONS SHALL BE AS A MINIMUM FULL DEPTH OF MEMBER.
        - ALL BOLTS SHALL BE ASTM A325 FULLY TENSIONED BEARING BOLTS WITH SHORT SLOTTED HOLES UNLESS NOTED. A325 SLIP CRITICAL BOLTS SHALL BE USED FOR ALL MOMENT CONNECTIONS AND AXIALLY LOADED MEMBERS.
        - ALL WELD SIZES SHOWN ARE SIZED FOR LOAD ONLY. WELDS SHALL BE INCREASED IN SIZE AS REQUIRED TO MEET AISC MINIMUMS.
        - ALL GROOVE WELDS SHOWN ARE FULL PENETRATION WELDS UNLESS NOTED OTHERWISE.
        - WELDS NOTED AS PARTIAL PENETRATION GROOVE WELDS SHOW "EFFECTIVE" SIZE OF WELD.
        - WELD JOINTS SHALL BE DETAILED BASED ON PROCESS USED AND POSITION OF WELD TO MEET THE "EFFECTIVE" SIZE SHOWN ON THE DRAWINGS.
      - c EXECUTION
        - VERIFY THAT FIELD CONDITIONS ARE ACCEPTABLE AND ARE READY TO RECEIVE WORK.
        - STEEL ERECTION TOLERANCES SHALL BE IN ACCORDANCE WITH THE CODE OF STANDARD PRACTICE.
  - 5.2 MISCELLANEOUS METALS
    - a ALL MISCELLANEOUS METALS WORK (GRATING, STAIR TREADS, SAFETY PLATE, STAIR STRINGERS, LADDERS AND GUARDRAILS/HANDRAILS) ARE DESIGNATED AS DELEGATED DESIGN ITEMS TO BE DESIGNED BY THE DRC'S SSE.
    - b MISCELLANEOUS METALS SHALL MEET THE DESIGN REQUIREMENTS OF THE BUILDING CODE NOTED ABOVE AND OSHA AND ASCE 7 SECTION 4.4.
    - c FLOOR GRATING SHALL BE SERRATED GALVANIZED WELDED GRATING (19W4) WITH 1-1/4" DEEP X 3/16" BEARING BARS SPACED 1-3/16" ON CENTER AND CROSS BARS SPACED 4" ON CENTER.
    - d STAIR TREADS SHALL HAVE THE SAME PATTERN AS THE GRATING AND HAVE AN ABRASIVE NOSING ON THE FRONT EDGE. GRATING SHALL CONFORM TO ANSI-NAAM MBG531.
    - e STANDARD GALVANIZED GRATING CLIPS SHALL BE USED TO ATTACH GRATING TO THE SUPPORT STEEL. ALL EDGES SHALL BE Banded. ALL OPENINGS AROUND PENETRATIONS EXCEEDING 1-1/2" DIAMETER SHALL BE PROTECTED BY 4" TOE PLATES. OPENINGS GREATER THAN 8" DIAMETER SHALL BE PROTECTED BY TOE PLATES AND HANDRAIL.
    - f CHECKERED SAFETY PLATE: GALVANIZED ASTM A36 SAFETY PLATE. 1/4" THICK EXCLUSIVE OF HEIGHT OF RAISED PATTERN.
    - g GUARDRAIL/HANDRAIL SHALL BE DESIGNED TO MEET CODES LISTED ABOVE. POSTS AND RAILS SHALL BE A MINIMUM 1-1/2" DIAMETER STANDARD GALVANIZED PIPE (ASTM A53 GR B) WITH ALL WELDED JOINTS AND FIELD BOLTED TO STRINGERS. POSTS SHALL BE SPACED NO GREATER THAN 4'-0" ON CENTER. SHOP FABRICATE IN AS LARGE OF SECTIONS AS POSSIBLE FOR EASE OF ERECTION. ALL EDGES SHALL BE ROUNDED AND WELDS GROUND SMOOTH.
    - h GUARDRAIL AND HANDRAIL SHALL NOT BE USED AS LIFE LINE TIE OFFS.
    - i SWING GATES AND CHAINS SHALL CONFORM TO ALL APPLICABLE CODES.
    - j LADDERS AND SAFETY CAGES (AS REQUIRED) ASTM A36 - GALVANIZED



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**CHIPMAN DESIGN**  
**ARCHITECTURE GROUP PC**

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**BELDEN VILLAGE MALL**  
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#00365

BUILDING TYPE \_\_\_\_\_  
 RELEASE: \_\_\_\_\_  
 PRINTED FOR \_\_\_\_\_  
**DESIGN DEVELOPMENT SET**  
**REVISION SCHEDULE**

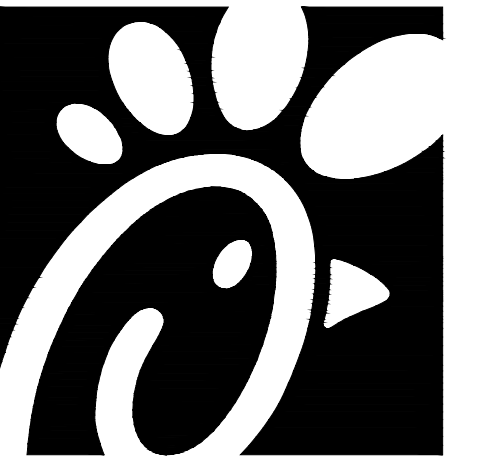
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 DATE **08.15.23**  
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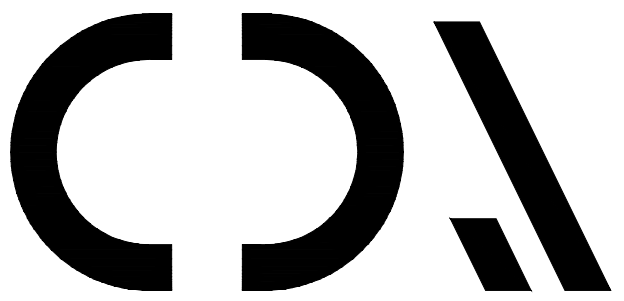
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**STRUCTURAL GENERAL NOTES**

SHEET NUMBER  
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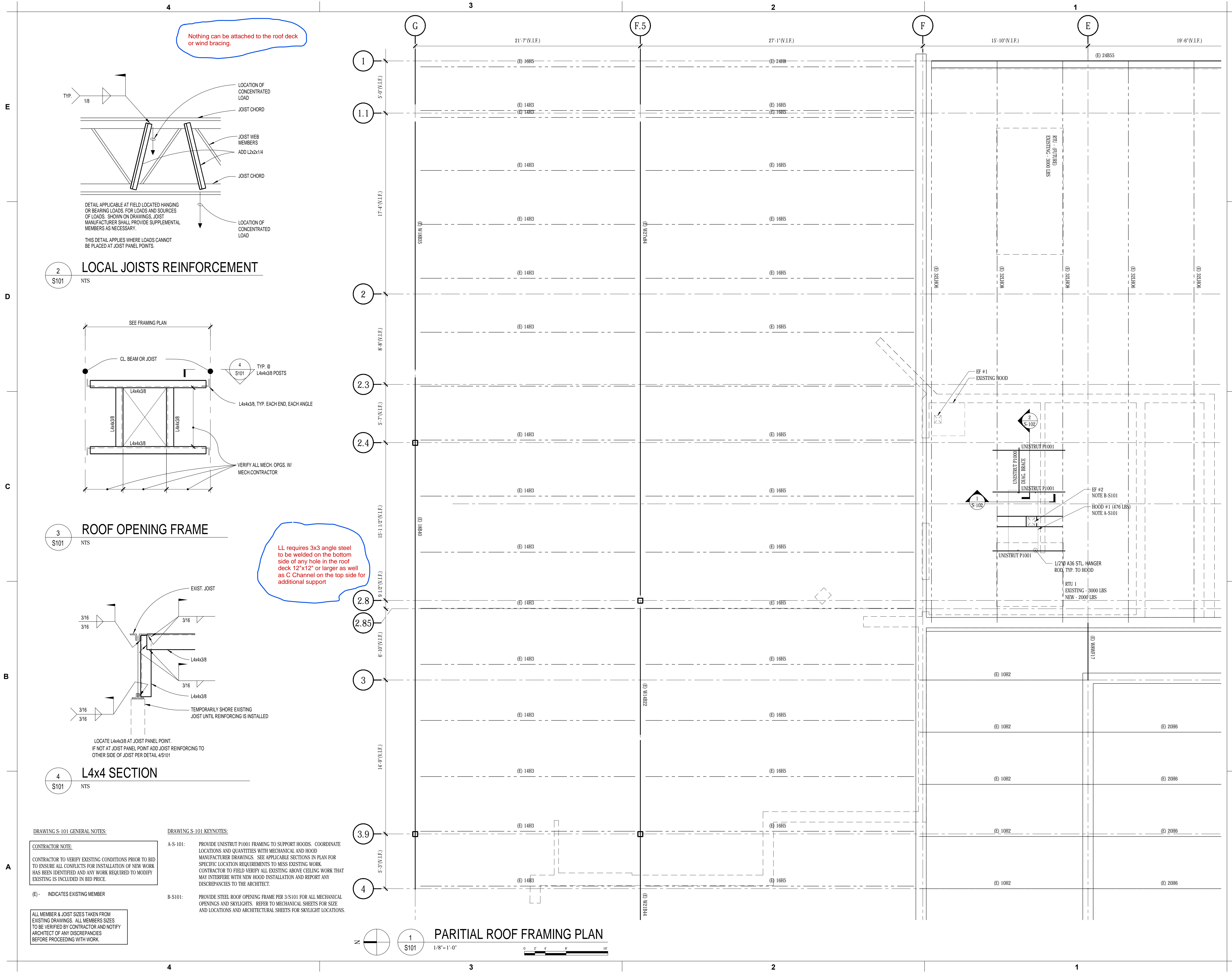
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BUILDING TYPE \_\_\_\_\_  
RELEASE: \_\_\_\_\_  
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DESIGN DEVELOPMENT SET  
REVISION SCHEDULE  
NO. DATE DESCRIPTION

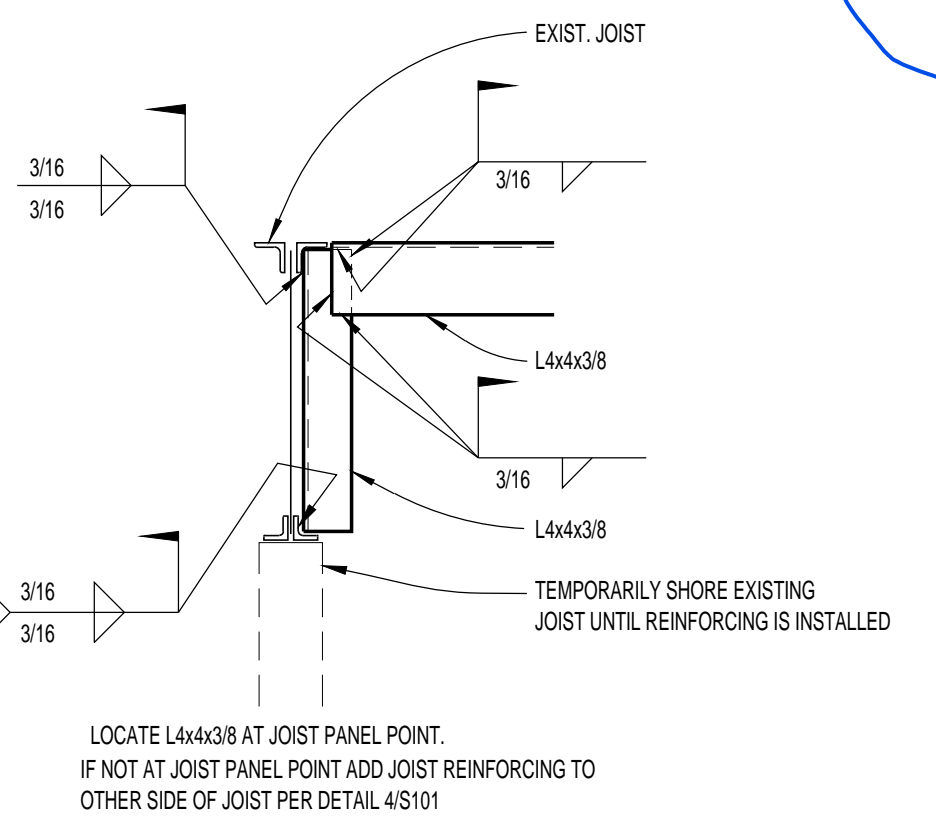
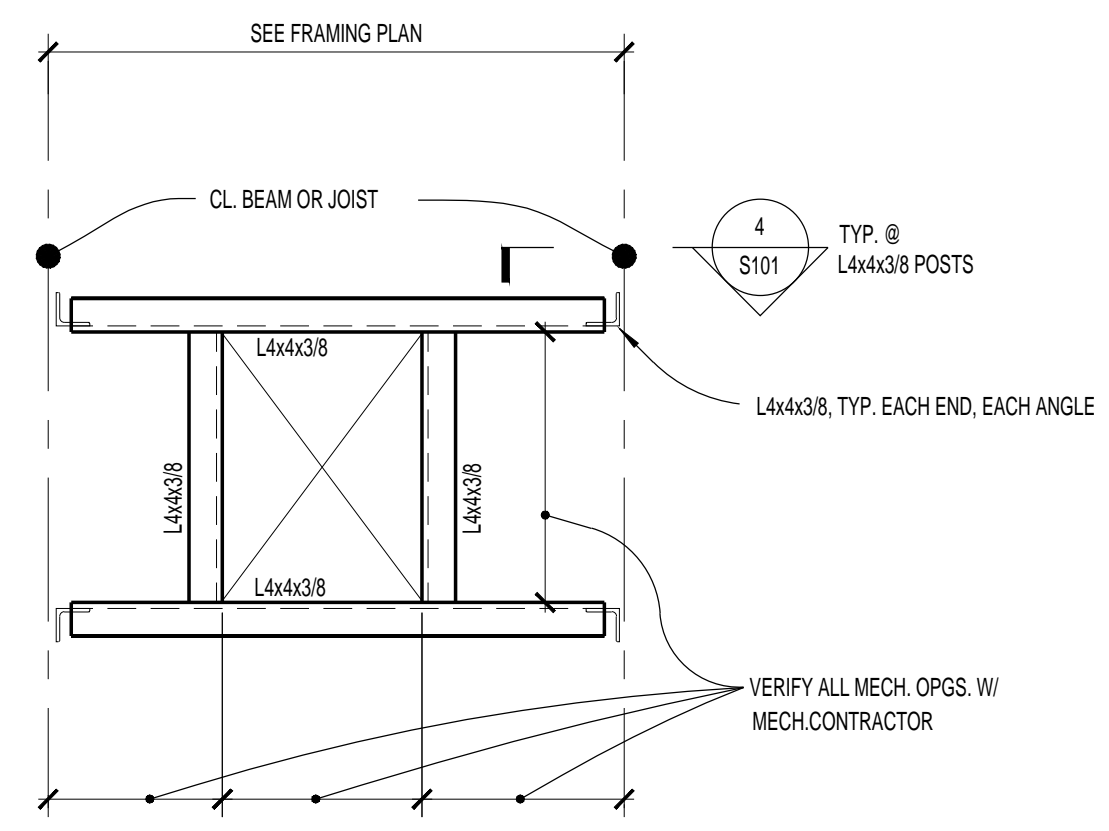
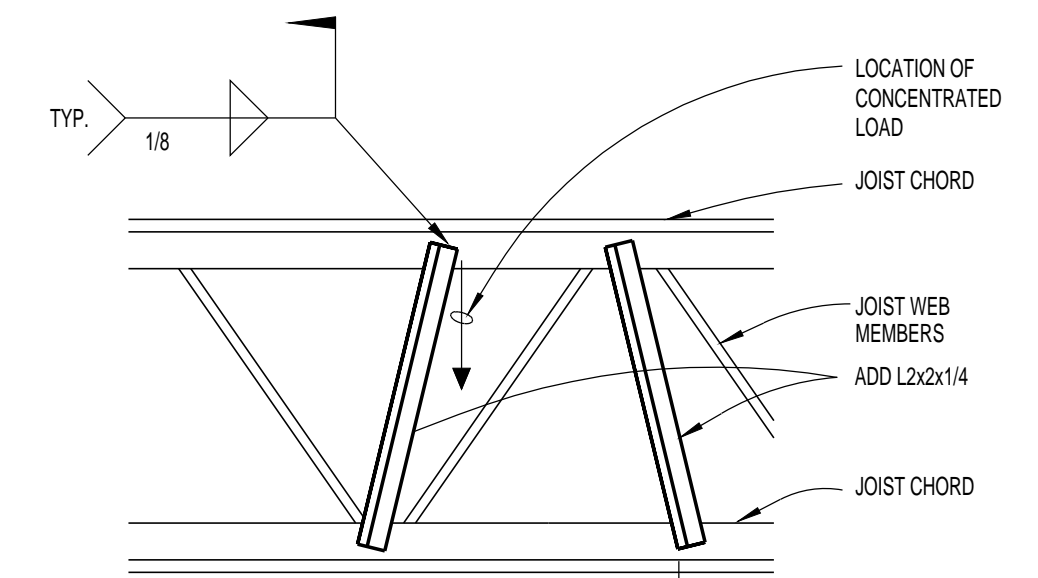
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SHEET  
PARTIAL ROOF  
FRAMING PLAN  
SHEET NUMBER

S-101



Nothing can be attached to the roof deck or wind bracing.



LL requires 3x3 angle steel to be welded on the bottom side of any hole in the roof deck 12"x12" or larger as well as C Channel on the top side for additional support

**DRAWING S-101 GENERAL NOTES:**  
CONTRACTOR NOTE:  
CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BID TO ENSURE ALL CONFLICTS FOR INSTALLATION OF NEW WORK HAS BEEN IDENTIFIED AND ANY WORK REQUIRED TO MODIFY EXISTING IS INCLUDED IN BID PRICE.

**DRAWING S-101 KEYNOTES:**  
A-S-101: PROVIDE UNISTRUT P1001 FRAMING TO SUPPORT HOODS. COORDINATE LOCATIONS AND QUANTITIES WITH MECHANICAL AND HOOD MANUFACTURER DRAWINGS. SEE APPLICABLE SECTIONS IN PLAN FOR SPECIFIC LOCATION REQUIREMENTS TO MISS EXISTING WORK. CONTRACTOR TO FIELD VERIFY ALL EXISTING ABOVE CEILING WORK THAT MAY INTERFERE WITH NEW HOOD INSTALLATION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.  
B-S101: PROVIDE STEEL ROOF OPENING FRAME PER 3/S101 FOR ALL MECHANICAL OPENINGS AND SKYLIGHTS. REFER TO MECHANICAL SHEETS FOR SIZE AND LOCATIONS AND ARCHITECTURAL SHEETS FOR SKYLIGHT LOCATIONS.

(E) - INDICATES EXISTING MEMBER  
ALL MEMBER & JOIST SIZES TAKEN FROM EXISTING DRAWINGS. ALL MEMBERS SIZES TO BE VERIFIED BY CONTRACTOR AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.

1 PARITAL ROOF FRAMING PLAN  
1/8"=1'-0"  
0 5 10 15

4

3

2

1

E

D

C

B

A

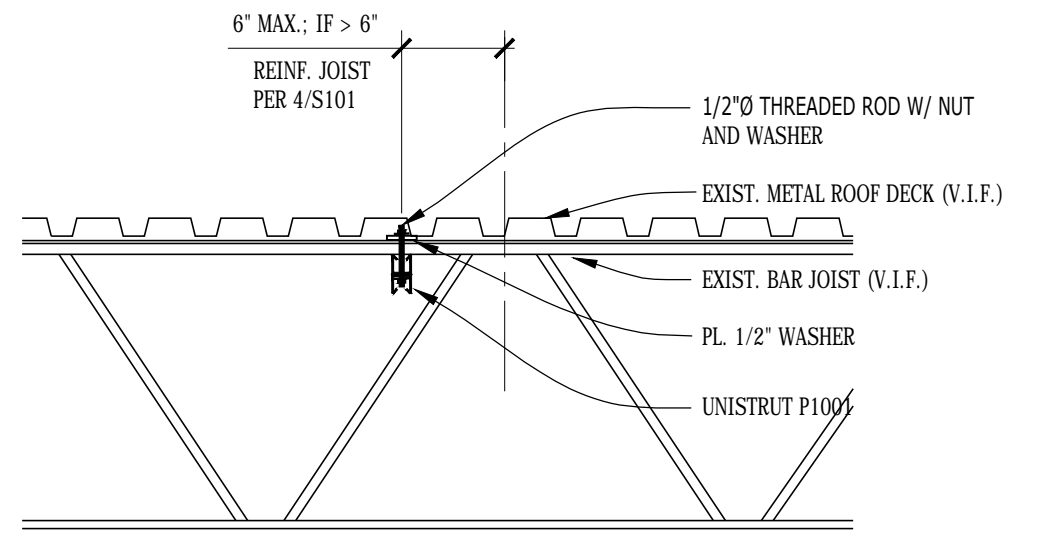
E

D

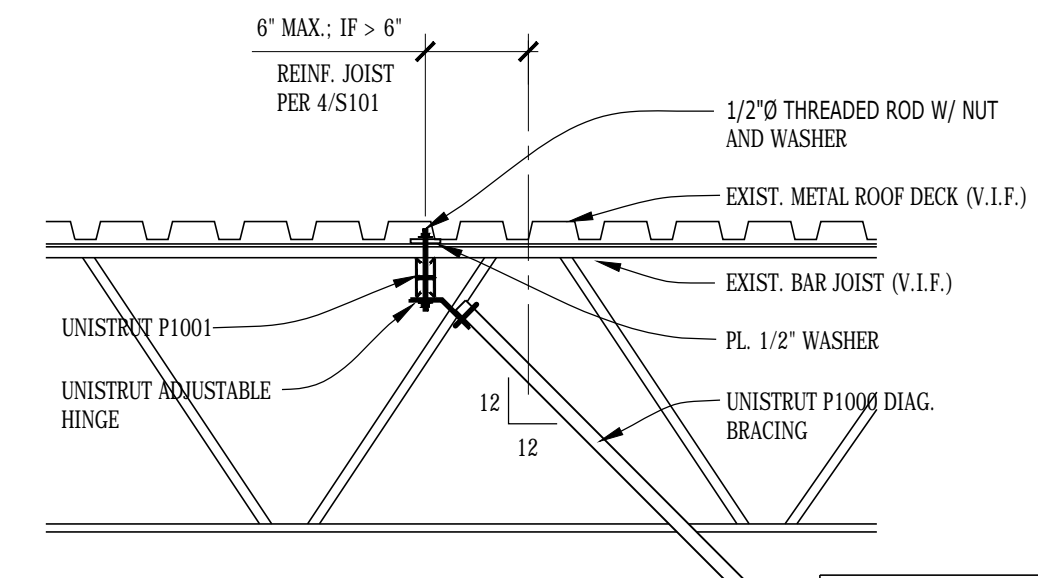
C

B

A

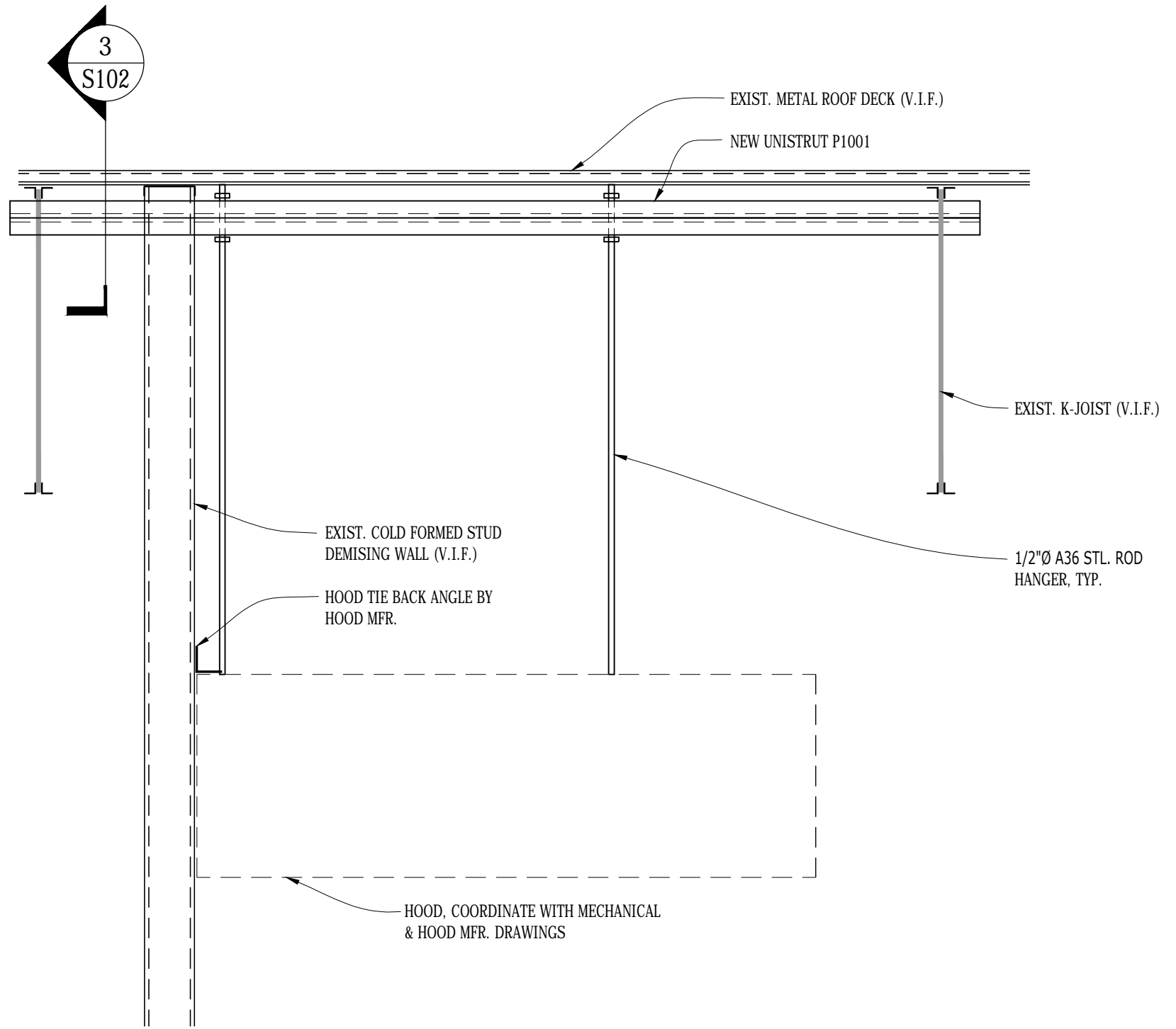


**3** FRAMING SECTION  
NTS

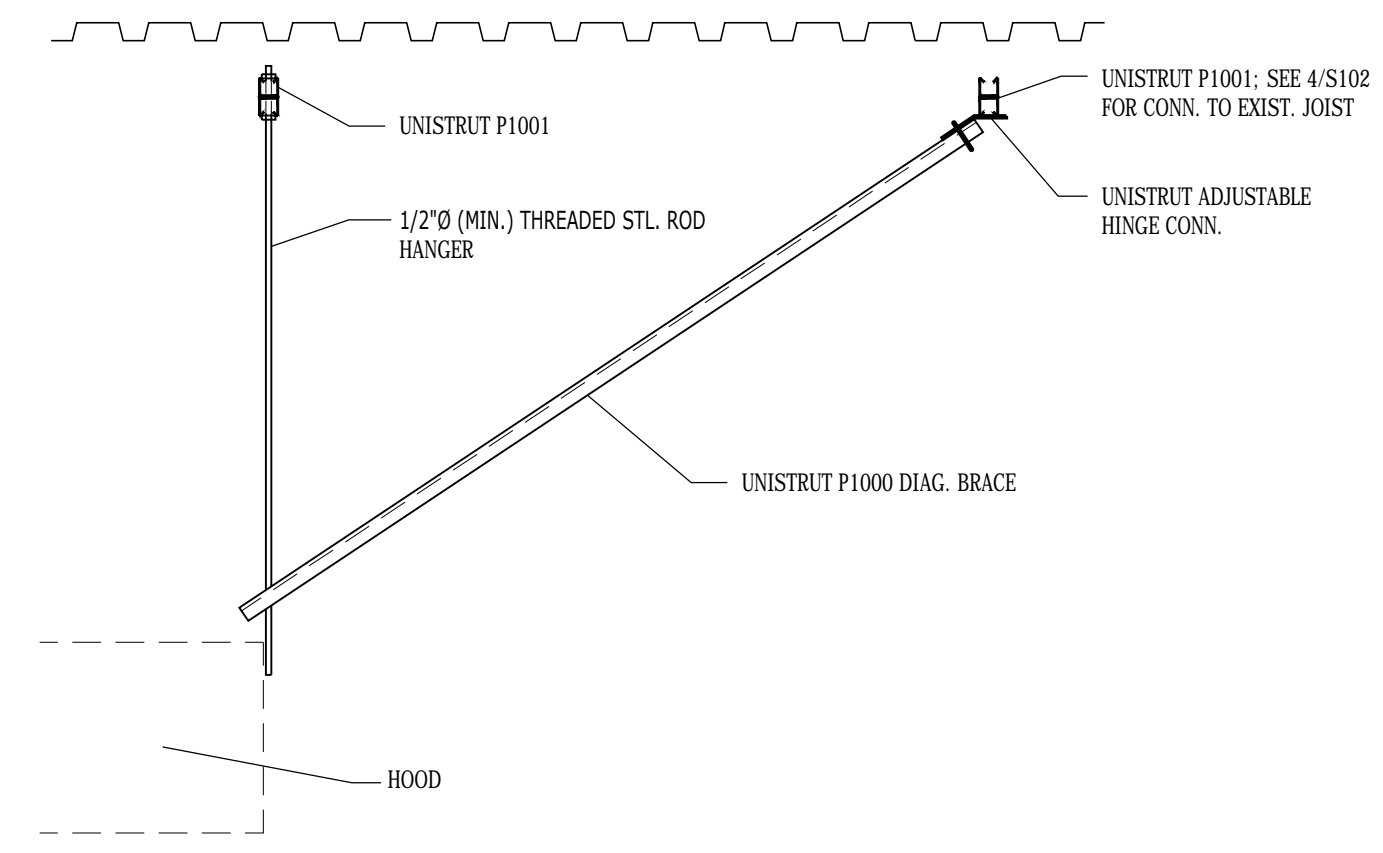


**4** FRAMING SECTION  
NTS

SEE DETAIL 2 ON S102 FOR ADDITIONAL INFORMATION.



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

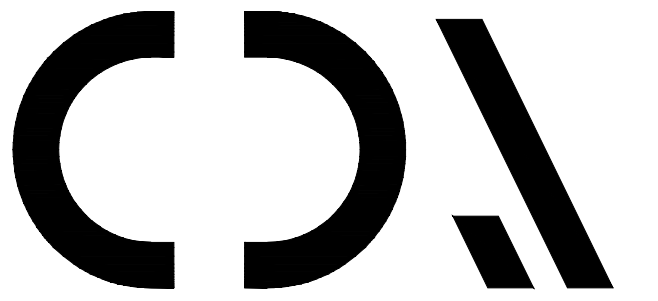


**2** FRAMING SECTION  
3/4"=1'-0"



Chick-fil-A

Chick-fil-A  
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30349-2998



CHIPMAN DESIGN  
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**CHICK-FIL-A**  
BELDEN VILLAGE MALL  
4228 BELDEN VILLAGE MALL  
CANTON, OH 44718

#00365

BUILDING TYPE: \_\_\_\_\_  
RELEASE: \_\_\_\_\_  
PRINTED FOR  
**DESIGN DEVELOPMENT SET**  
REVISION SCHEDULE  
NO. DATE DESCRIPTION

CONSULTANT PROJECT # **23-3840.00**  
DATE 08.15.23  
DRAWN BY NEB CHECKED BY MJW

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SHEET  
**HOOD SUPPORT  
FRAMING DETAILS**

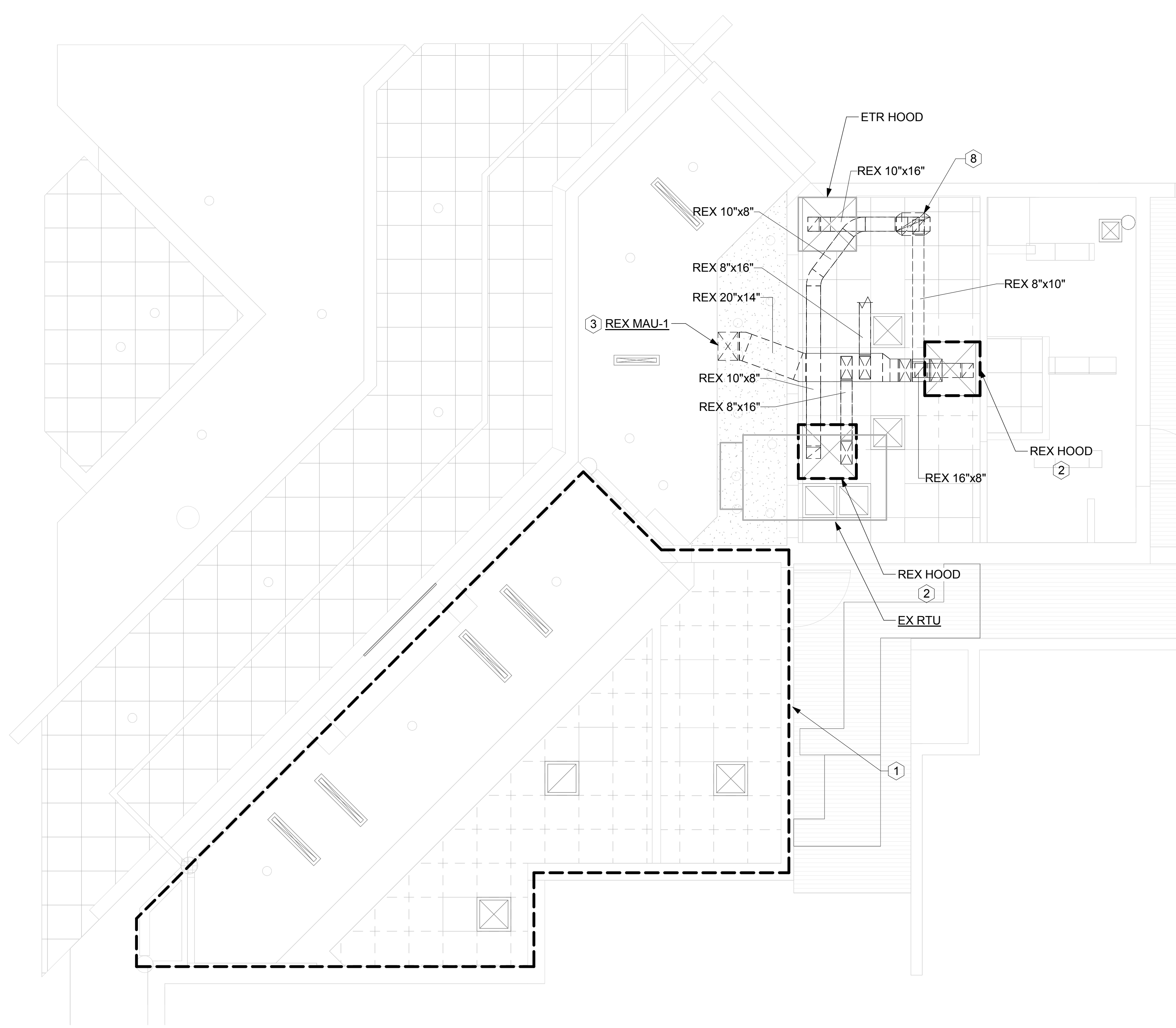
SHEET NUMBER  
**S-102**

4

3

2

1



**1 MECHANICAL DEMOLITION FLOOR PLAN**  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

- EXISTING MECHANICAL INFORMATION IS BASED ON LIMITED EXISTING BUILDING DRAWINGS AND FIELD WORK. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR ACCURACY. CONTRACTOR SHALL NOTIFY OWNER, ARCHITECT AND ENGINEER OF ANY SITUATIONS THAT MODIFY OR INCREASE THE SCOPE OF WORK FROM WHAT IS DESCRIBED IN THE DOCUMENTS.
- REFER TO DRAWINGS AND PROJECT SPECIFICATIONS OF OTHER DISCIPLINES FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE INFORMATION PRESENTED AND FIELD CONDITIONS.
- PRIOR TO ANY ISOLATION OF SYSTEMS, SHUTDOWNS OR DEMOLITION, THE CONTRACTOR SHALL PROVIDE NECESSARY INVESTIGATION AND NOTIFY THE FACILITIES ENGINEERING/MAINTENANCE PERSONNEL OF WORK TO BE PERFORMED SO AS TO AVOID ANY DETRIMENTAL SHUTDOWN OF SYSTEMS TO ADJACENT SPACES.
- WHERE PIPE, DUCTWORK, INSULATION, FIXTURES OR EQUIPMENT WHICH IS TO REMAIN IS DAMAGED OR DISTURBED, REMOVE THE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY. WHERE IDENTICAL MATERIALS ARE UNAVAILABLE OR CANNOT BE USED, USE MATERIALS WHOSE INSTALLED PERFORMANCE EQUALS OR SURPASSES THAT OF THE EXISTING MATERIALS.
- MAINTAIN AND RESTORE, IF INTERRUPTED BY DEMOLITION OR IN THE PATH OF NEW CONSTRUCTION, ALL UTILITIES PASSING THROUGH AND SERVING AREAS OUTSIDE OF DEMOLITION AREA.
- MECHANICAL AND PLUMBING SYSTEMS INSTALLATIONS MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE W/ ARCHITECTURAL PLANS AND GENERAL CONTRACTOR.
- LIMITED ABOVE CEILING CLEARANCES EXIST. COORDINATE LOCATION AND ELEVATION OF MECHANICAL WORK WITH ALL DUCTWORK, SPRINKLERS, LIGHT FIXTURES, AND OTHER CEILING BUILT-IN FIXTURES. CONTACT ENGINEER OR ARCHITECT IMMEDIATELY SHOULD ANY CONFLICT ARISE.
- CONTRACTOR TO USE LANDLORD APPROVED ROOFING CONTRACTOR TO INFILL ROOF DECK, REPLACE INSULATION, AND REROOF THE AREA TO MATCH EXISTING AT TENANT'S EXPENSE. COORDINATE ROOF PENETRATIONS AND ROOFTOP EQUIPMENT LOCATIONS WITH LANDLORD AND GENERAL CONTRACTOR.
- NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE THE ROOF DECK. CONTRACTOR MAY ATTACH TO OR SUSPEND FROM THE TOP CHORD OF THE BAR JOIST OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE THE SPACE.
- REFER TO MALL CRITERIA MANUAL FOR ADDITIONAL STANDARDS AND REQUIREMENTS.
- CONTRACTOR TO PROPERLY RECOVER REFRIGERANT AND OIL AND DISPOSE OF PER STATE AND FEDERAL REGULATIONS.
- REMOVE ANY AND ALL EXISTING MECHANICAL EQUIPMENT NOT IN USE, DO NOT ABANDON IN PLACE.

**SHEET KEYNOTES**

- DISCONNECT ALL SUPPLY DIFFUSERS FROM SUPPLY DUCTWORK IN THIS AREA. REMOVE ALL DIFFUSERS, RETURN GRILLES AND REMOVE EXISTING DUCTWORKS BACK TO MAIN. SEAL MAIN DUCT AIR TIGHT.
- DISCONNECT EXISTING HOOD FROM EXHAUST AIR DUCT AND SUPPLY AIR DUCT. REMOVE EXISTING HOOD COMPLETE AND DUCTWORKS BACK TO MAIN. SEAL MAIN DUCT AIR TIGHT.
- REMOVE EXISTING MAU-1 COMPLETE AND CAP THE ROOF OPENING. SEE DETAIL FOR MORE INFORMATION.
- REMOVE EXISTING EXHAUST COMPLETE WITH DUCTWORK AND CAP THE ROOF OPENING. SEE DETAIL FOR MORE INFORMATION.

Any abandoned roof openings must be removed and reroofed. Curb adapters are not allowed.



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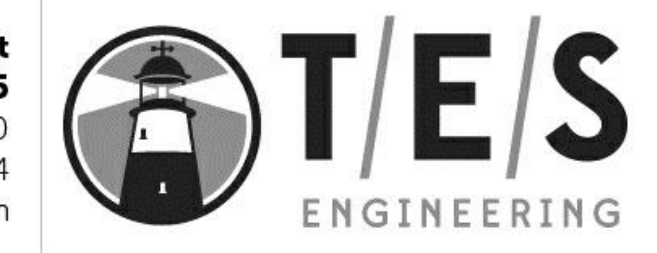
**CHICK-FIL-A  
BELDEN VILLAGE MALL  
4228 BELDEN VILLAGE MALL  
CANTON, OH 44718**

**#00365**

BUILDING TYPE / SIZE: LRG  
RELEASE:  
PRINTED FOR  
**DESIGN DEVELOPMENT SET**  
**REVISION SCHEDULE**  
NO. DATE DESCRIPTION

CONSULTANT PROJECT # **23-3840.00**  
DATE **07.07.23**  
DRAWN BY **AUTHOR** CHECKED BY **RDB**

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**MECHANICAL  
DEMOLITION FLOOR  
PLAN**  
SHEET NUMBER  
**M-100**

Autodesk Docs://OH\_00365\_Belden Village Mall\_2023.1\_MLL/Belden Village, OH TES M.rvt  
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30-00365-M-100-MECHANICAL DEMOLITION FLOOR PLAN

LEGEND			
A-12-400	TYPE - NECK SIZE - CFM	[EF#1]	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	[AC#1]	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD FLEXIBLE DIFFUSER		RETURN/EXHAUST (TYP.)
(S)	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
(H)	HUMIDITY SENSOR	(1)	PLAN NOTE REFERENCE
	SMOKE DETECTOR		MANUAL VOLUME DAMPER
12x18	DUCT SIZE (reverse for elevation views) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		DIRECTION OF THROW ON DIFFUSER
[SW]	AIR DOOR SWITCH		CLOSED AIR PATTERN DEFLECTOR
EC	ELECTRICAL CONTRACTOR	[GIH]	GAS INFRARED HEATER (TYP.)
EIH	ELECTRIC INFRARED HEATER	B/G	BELOW GRADE
MC	MECHANICAL CONTRACTOR	(T)	THERMOSTAT

All equipment on the roof associated with grease must have a Grease Guard System installed on roof at the base of the equipment and a secondary grease catch installed as well.

### SHEET NOTES

- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1/M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
- FOR SUPPLY AND RETURN OPENINGS, CUT OPENING AROUND DUCT DROPS 4" TO 8" MINIMUM (EXCEPT WHERE STRUCTURE PREVENTS THIS). SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
- UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
- SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.

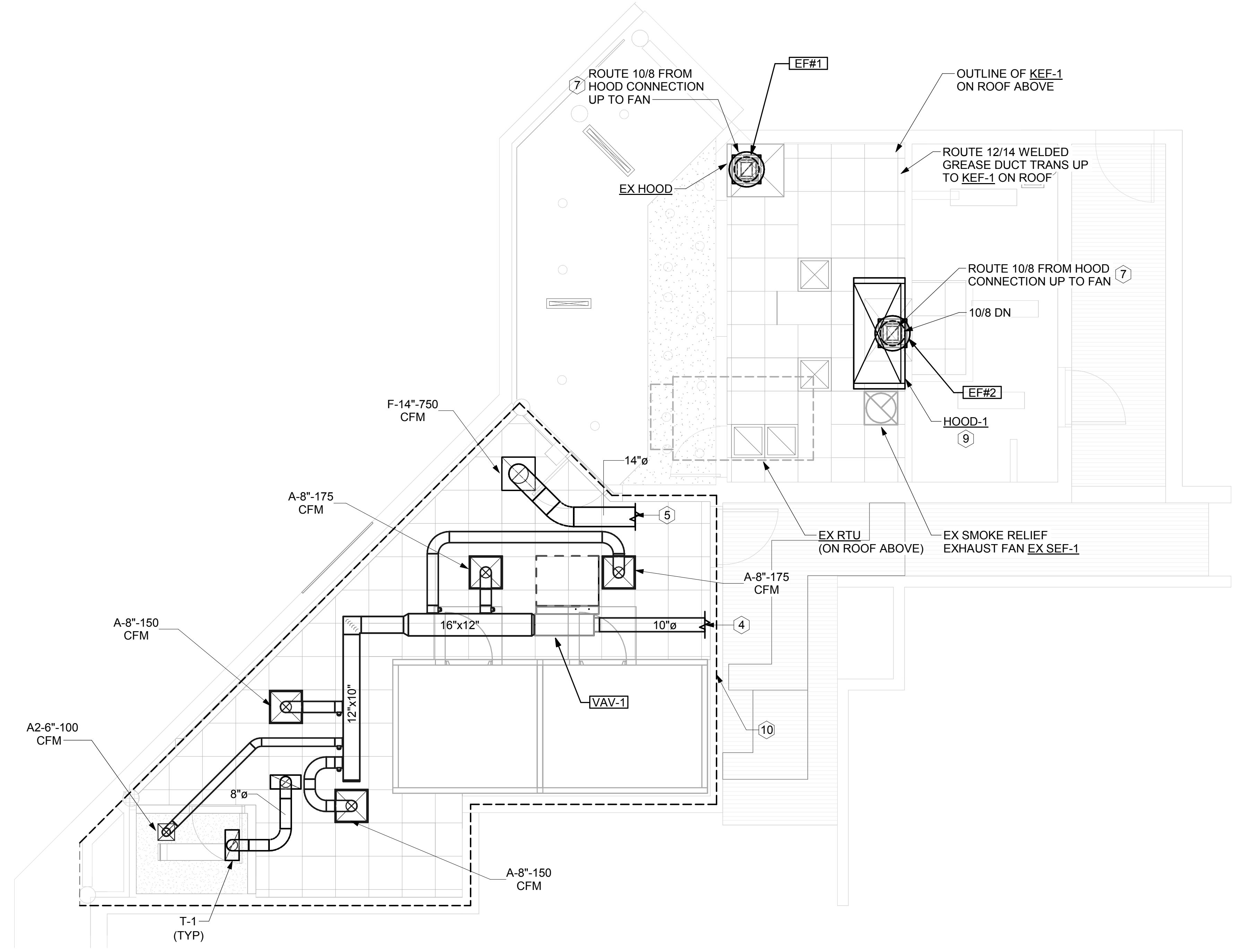
### CANOPY GENERAL NOTES

- COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, TYP.

### KEY NOTES

- CONNECT NEW SUPPLY AIR DUCT TO EXISTING LANDLORD SYSTEM MAIN SUPPLY AIR DUCT. FIELD VERIFY EXACT LOCATION.
- CONNECT NEW RETURN AIR DUCT TO EXISTING LANDLORD SYSTEM MAIN RETURN AIR DUCT. FIELD VERIFY EXACT LOCATION.
- TRANSITION TO FULL SIZE OF KITCHEN EXHAUST FAN CONNECTION IN RISE BELOW ROOF DECK. PROVIDE DUCT ACCESS PANEL IN VERTICAL RISE. REFER TO DETAIL TO ADDITIONAL INFORMATION.
- HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR.
- EXISTING SMOKE EXHAUST AIR TO REMAIN. FIELD VERIFY EXISTING SMOKE EXHAUST SYSTEM FOR PROPER OPERATION WITH LANDLORD AND FIRE MARSHALL REQUIREMENTS.

AIR BALANCE SCHEDULE					
MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING PRESSURE
EF#1	-	-	-	900	-900
EF#2	-	-	-	900	-900
EX EF	-	-	-	90	-90
RTU-1	5000	3750	1250	-	+1250
	5000	3750	1250	1890	-640

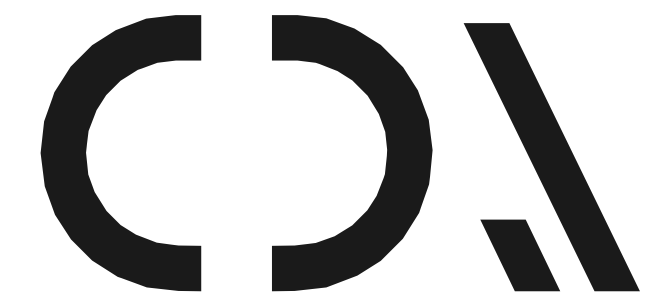


1 MECHANICAL FLOOR PLAN  
1/4" = 1'-0"



Chick-fil-A

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**CHICK-FIL-A**  
BELDEN VILLAGE MALL  
4228 BELDEN VILLAGE MALL  
CANTON, OH 44718

#00365

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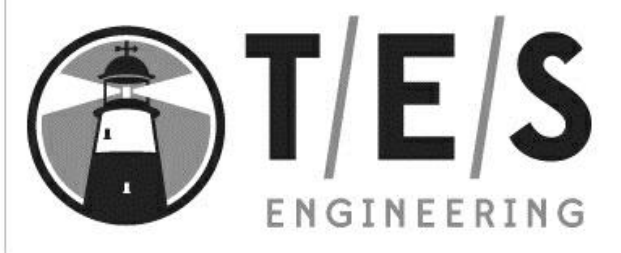
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SHEET  
MECHANICAL FLOOR PLAN

SHEET NUMBER  
M-201

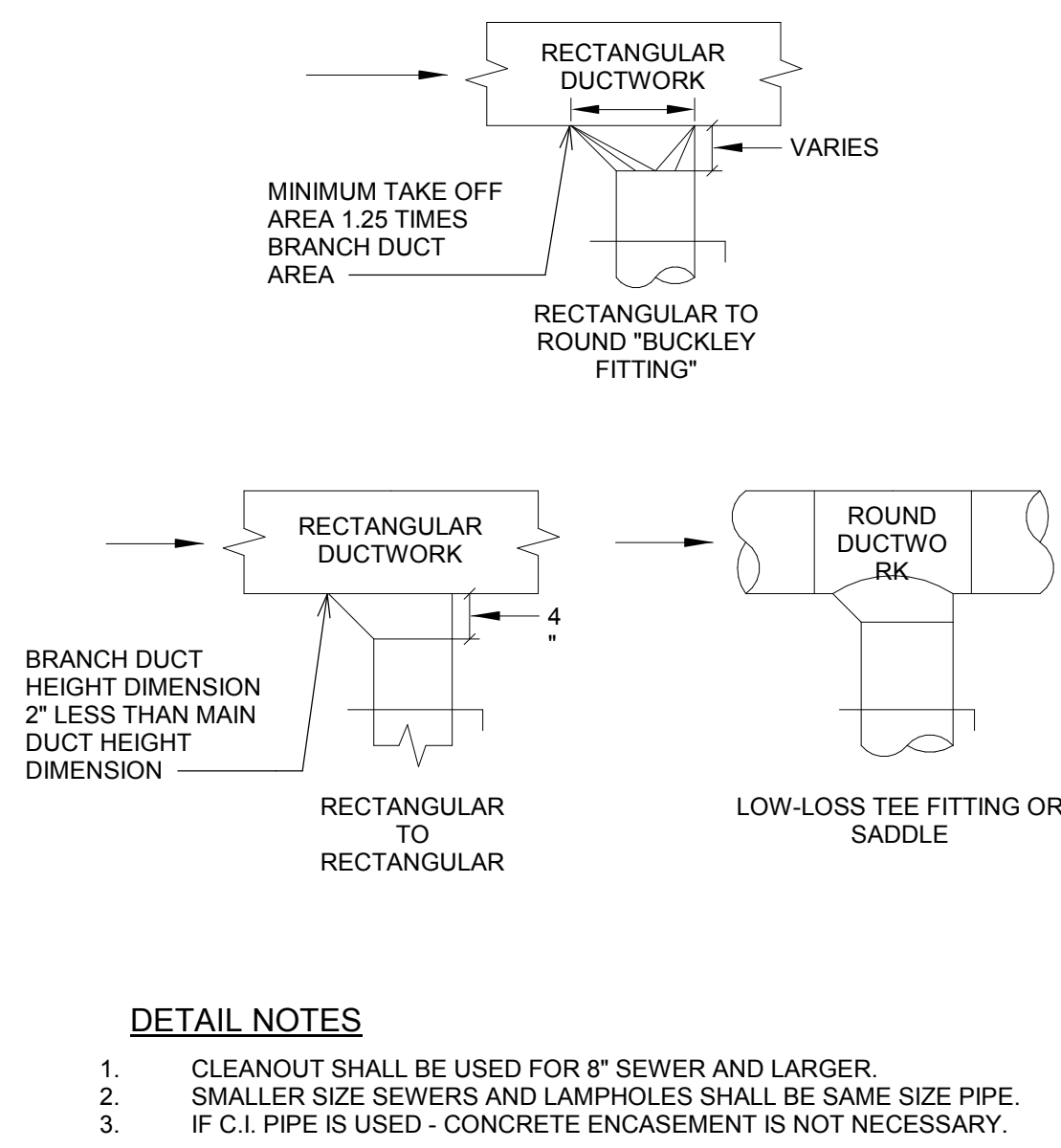
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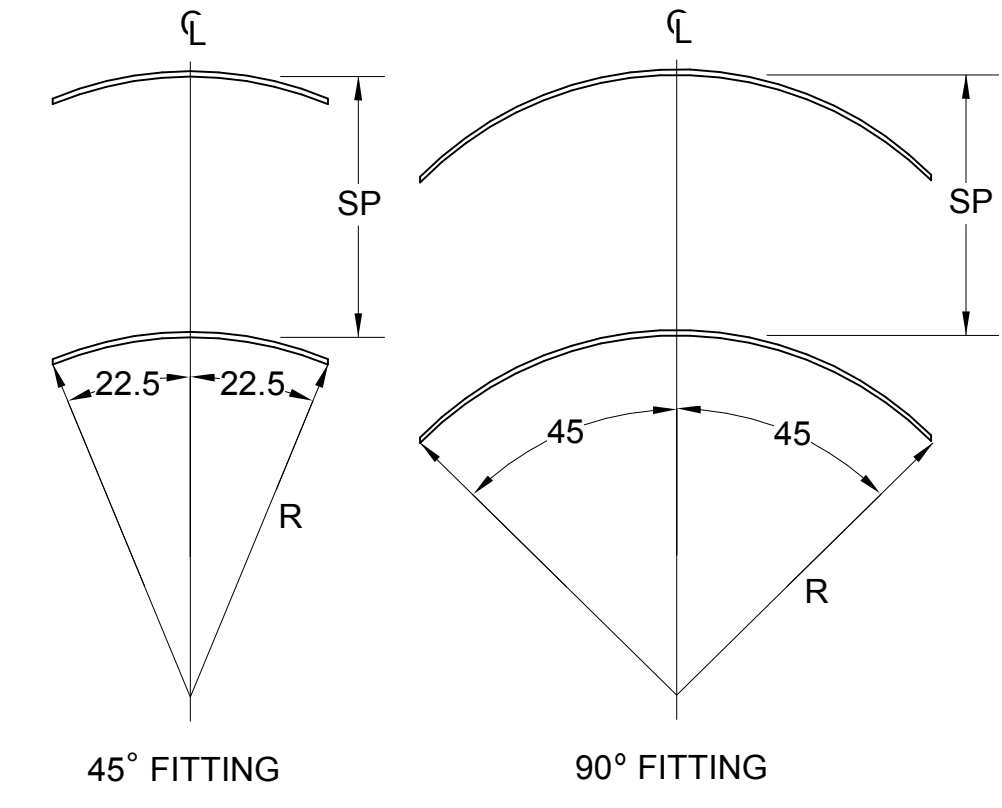
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8/7/2023 4:04:07 PM  
30-00365-M-401-HVAC DETAILS

**3 DUCT BRANCH TAKE-OFF DETAIL**  
NONE

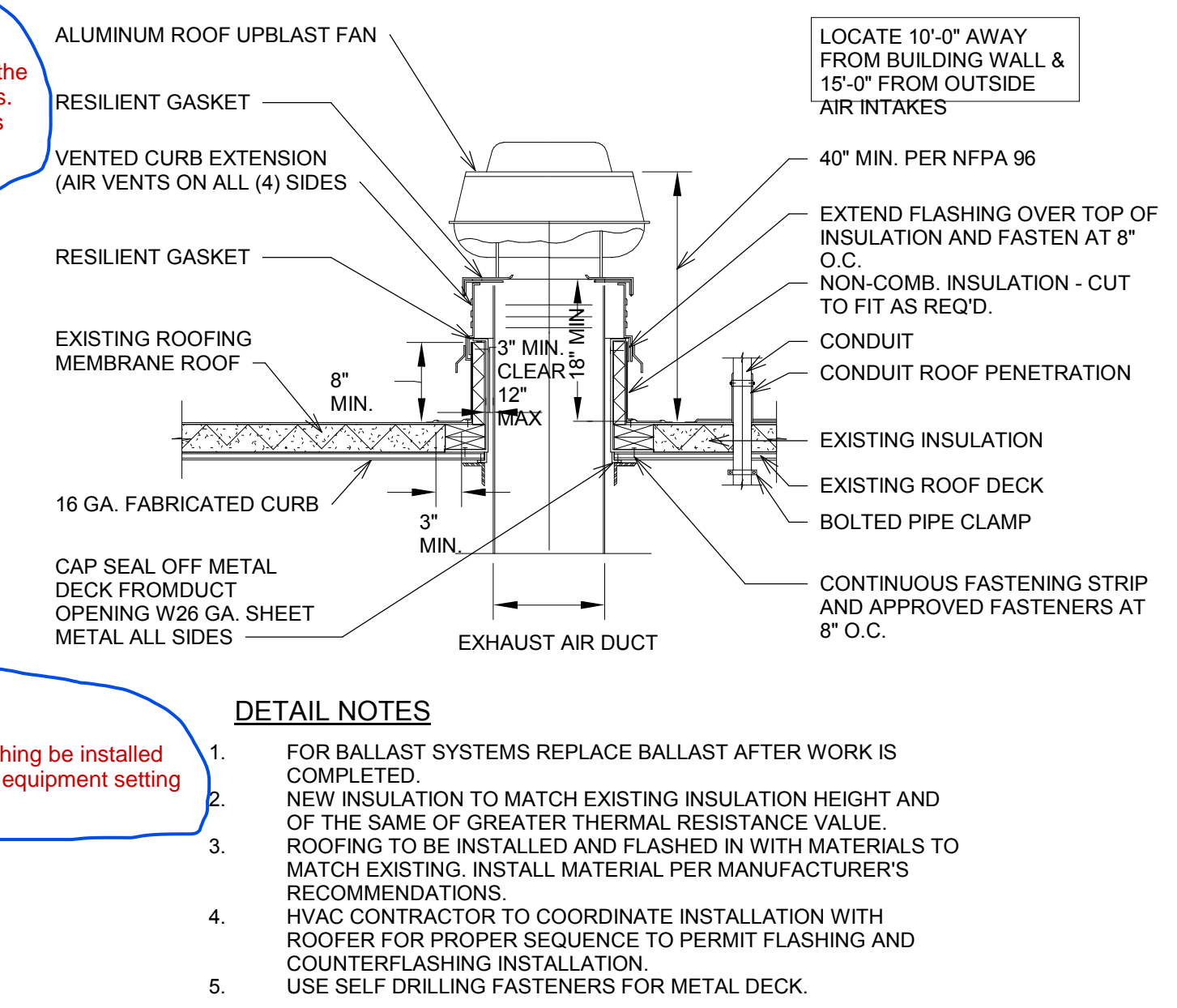


- DETAIL NOTES**
- CLEANOUT SHALL BE USED FOR 8" SEWER AND LARGER.
  - SMALLER SIZE SEWERS AND LAMPHOLES SHALL BE SAME SIZE PIPE.
  - IF C.I. PIPE IS USED - CONCRETE ENCASEMENT IS NOT NECESSARY.

**2 TURNING VANES**  
NOT TO SCALE

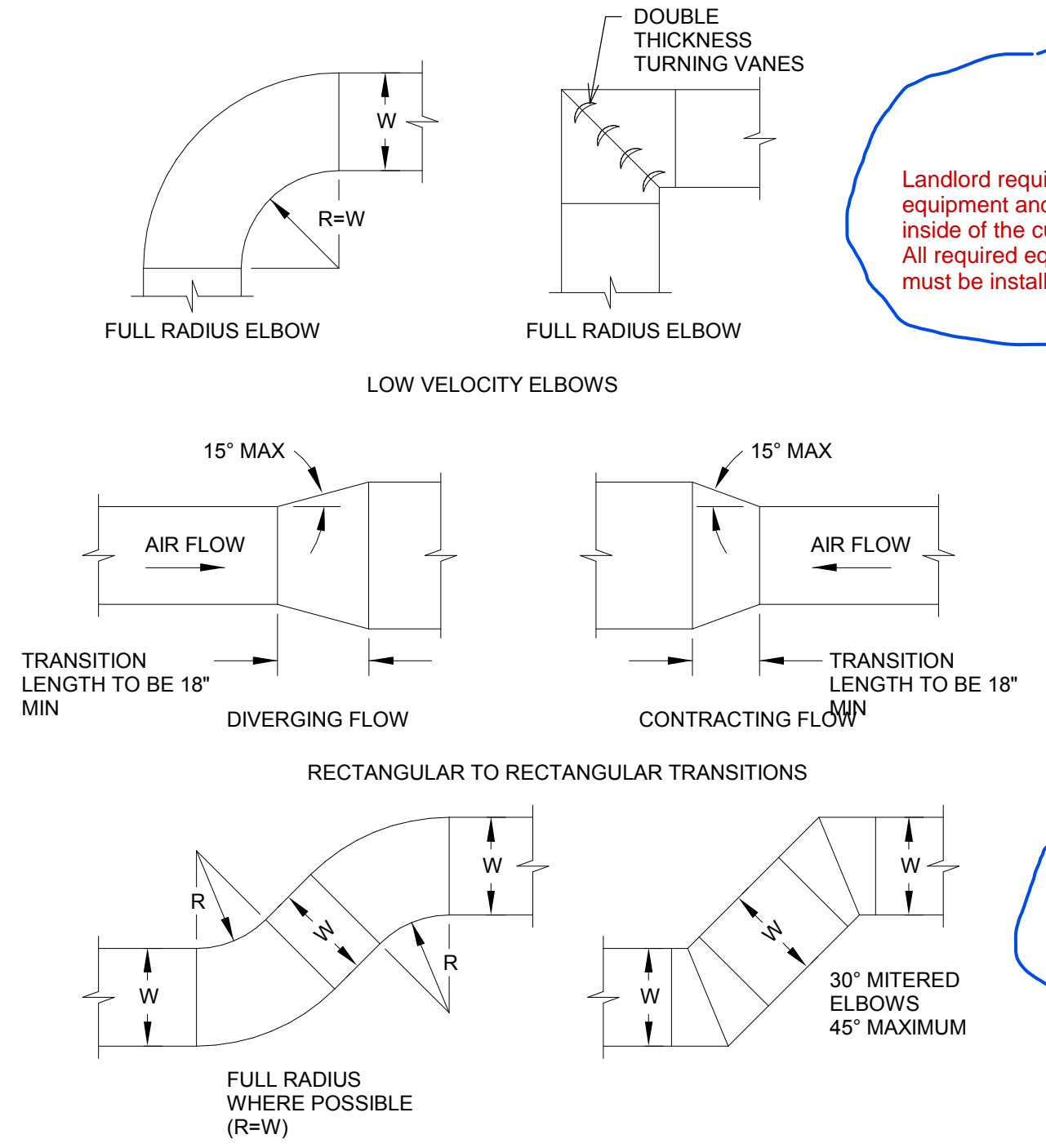


**5 ROOF MOUNTED EXHAUST FAN DETAIL**  
NONE



- DETAIL NOTES**
- FOR BALLAST SYSTEMS REPLACE BALLAST AFTER WORK IS COMPLETED.
  - NEW INSULATION TO MATCH EXISTING INSULATION HEIGHT AND OF THE SAME OR GREATER THERMAL RESISTANCE VALUE.
  - ROOFING TO BE INSTALLED AND FLASHED IN WITH MATERIALS TO MATCH EXISTING. INSTALL MATERIAL PER MANUFACTURER'S RECOMMENDATIONS.
  - HVAC CONTRACTOR TO COORDINATE INSTALLATION WITH ROOFER FOR PROPER SEQUENCE TO PERMIT FLASHING AND COUNTERFLASHING INSTALLATION.
  - USE SELF-DRILLING FASTENERS FOR METAL DECK.

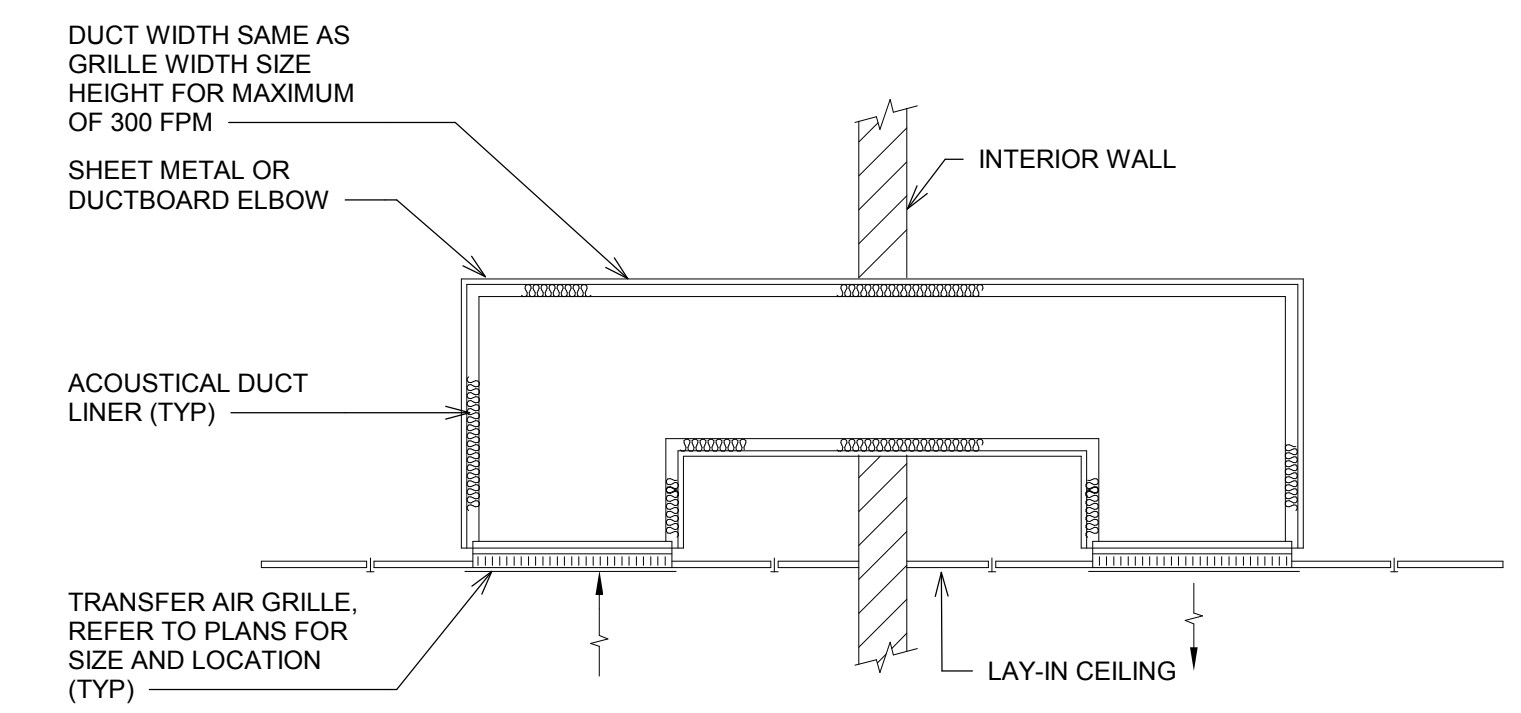
**6 LOW VELOCITY TRANSITIONS AND OFFSETS**  
NONE



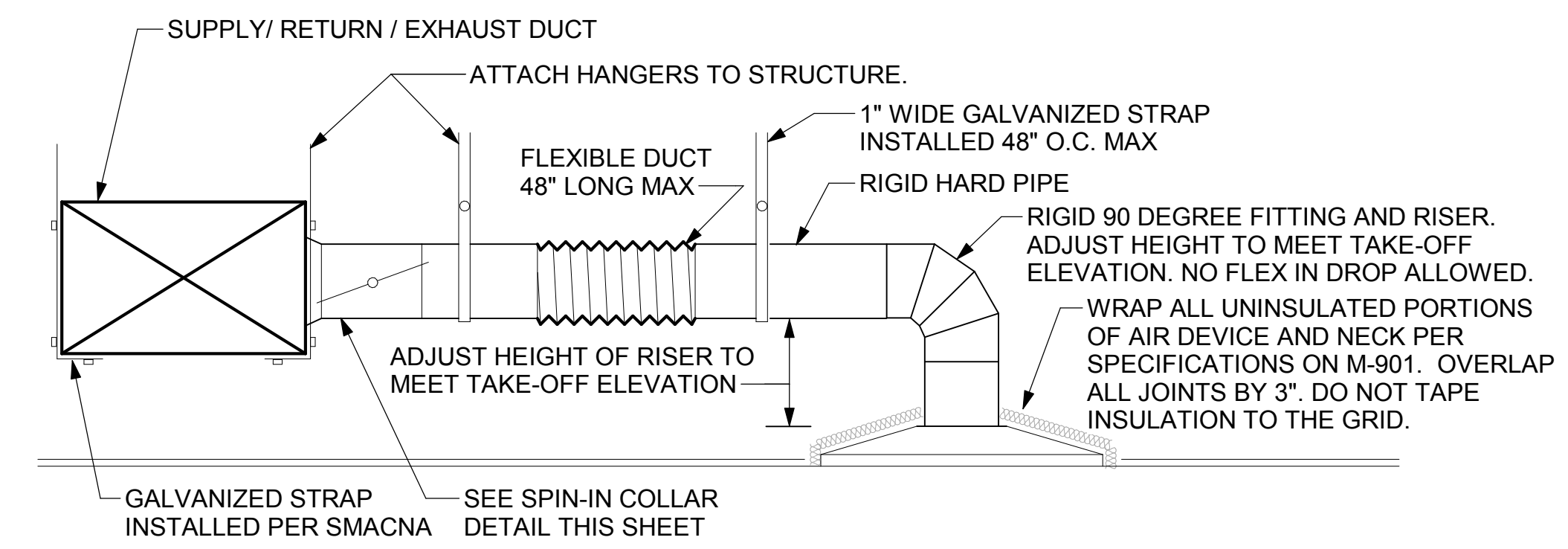
Landlord requires roofed curbs for all equipment and supply power ran through the inside of the curb for less roof penetrations. All required equipment power penetrations must be installed in a witches hat.

Mall requires counterflashing be installed between top of curb and equipment setting on the curb.

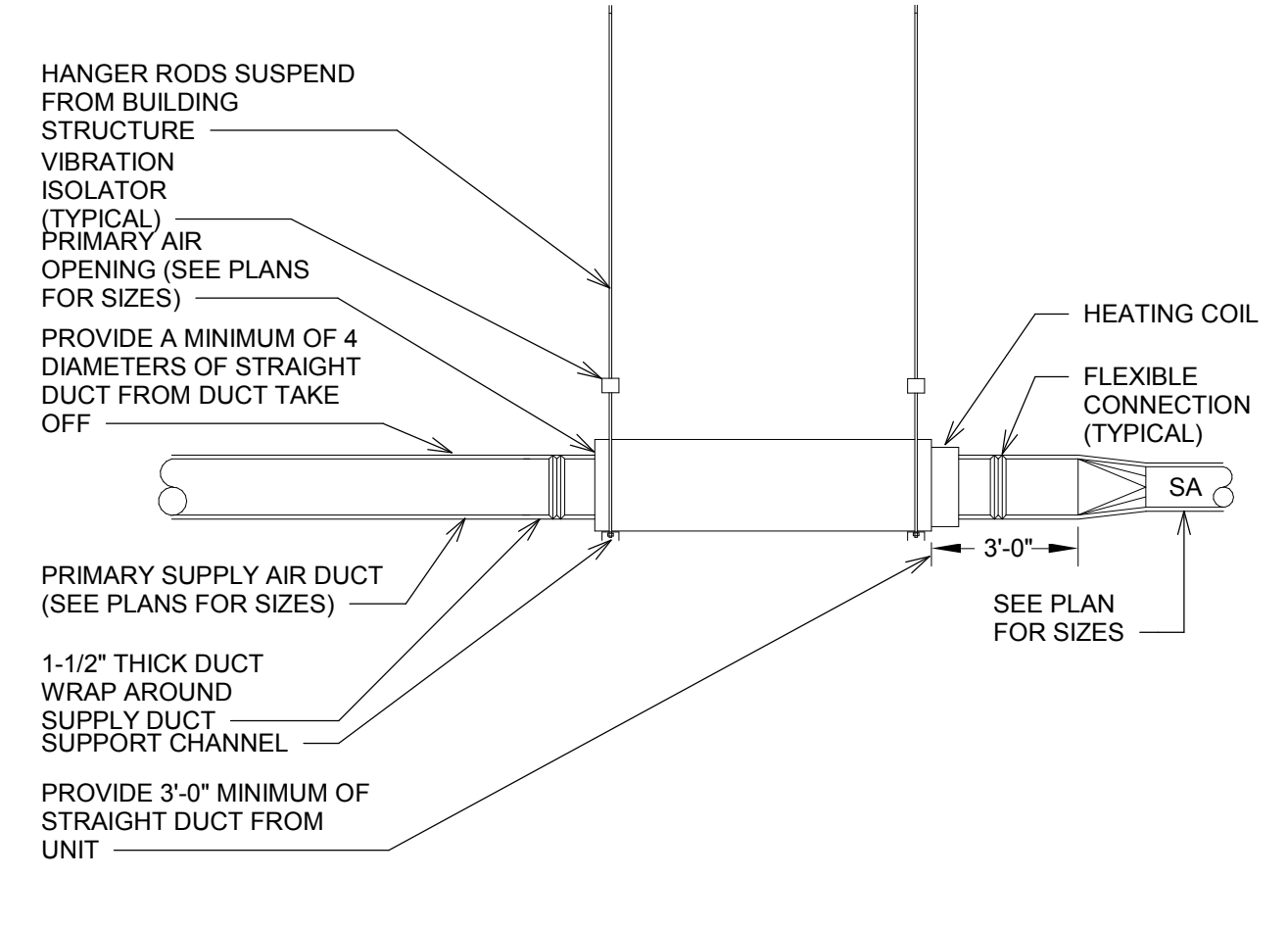
**7 TRANSFER DUCT DETAIL**  
NONE



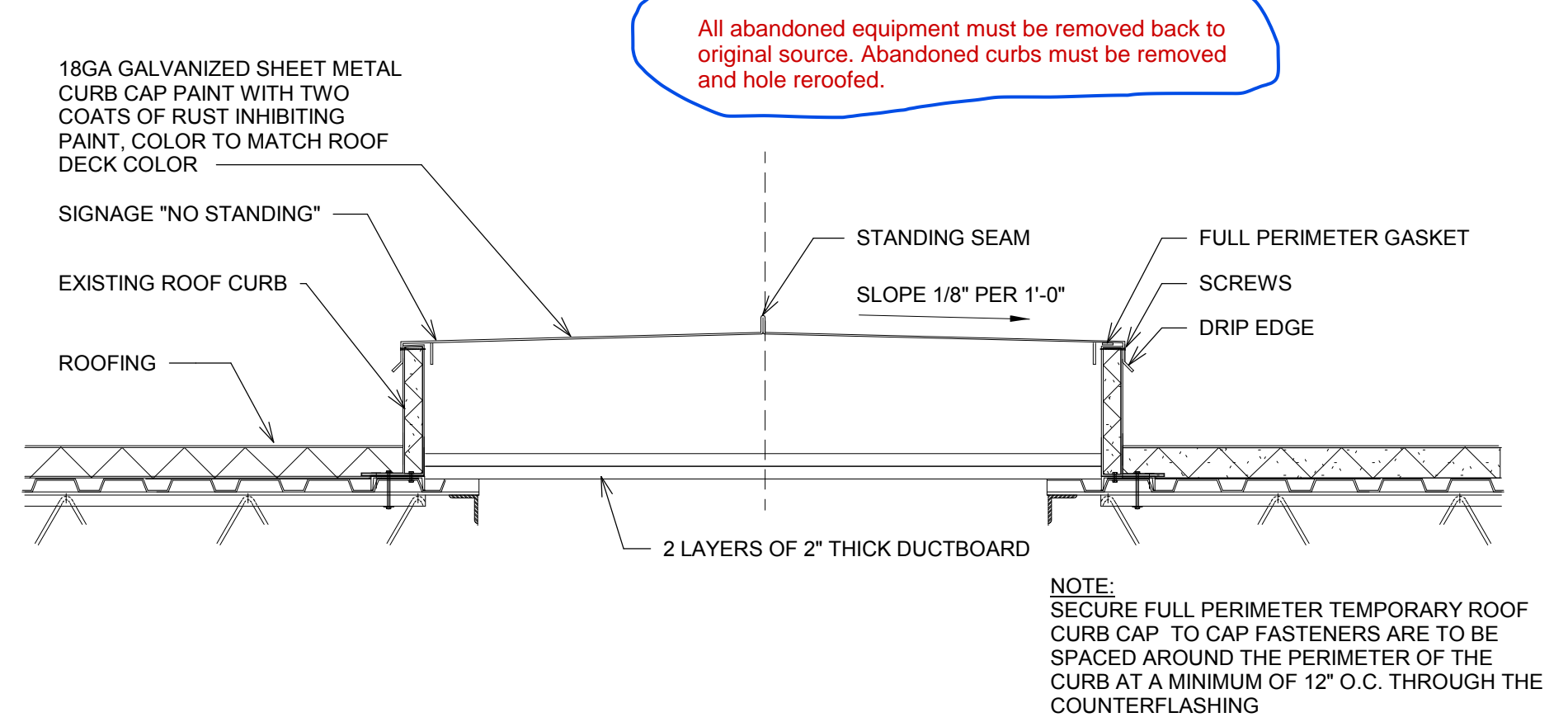
**1 SAG/RAG/GRILLE TAKE-OFF**  
NOT TO SCALE



**4 VAV BOX DETAIL**  
NONE



**8 ROOF CURB CAP DETAIL**  
NONE

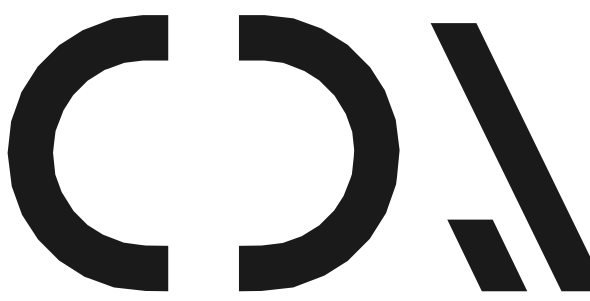


All abandoned equipment must be removed back to original source. Abandoned curbs must be removed and hole reroofed.



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4228 BELDEN VILLAGE MALL  
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**#00365**

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SHEET  
**HVAC DETAILS**

SHEET NUMBER  
**M-401**

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