DSA **140**

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval.This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☐ No ☐)

Deferred Submittal ☐	Addendum Number:	Revision Number: 3	CCD Number: 01	Category A ☑ or B ☐

2. PROJECT INFORMATION:

School District/Owner: Lodi Unified School District	DSA File Number: 39 H4
Project Name/School: Lodi High School Breezeway Repair	DSA Application Number 02 121377

3. APPLICANT INFORMATION:

Date Submitted: 04/29/24	Attached Pages? No ☐ Yes ☑ Number of pages? 17		
Firm Name: PBK ARCHITECTS	Contact Name: MAVRICK GONZALES		
Work Email: MAVRICK.GONZALES@PBK.COM	Work Phone: (916) 355-9922		
Firm Address: 1110 IRON POINT RD SUITE 200	City: FOLSOM	State: CA	Zip Code: 95630

4. REASON FOR SUBMITTAL: (Check applicable boxes)

☐ For revision or addendum prior to construction.

☑ For a project currently under construction.

☐ For a project that has a form *DSA 301-N: Notification of Requirement for Certification*, *DSA 301-P: Posted Notification of Requirement for Certification* or a 90-Day Letter issued.

☐ To obtain DSA approval of an existing uncertified building or buildings.

☑ For Category B CCD this is: ☐ a voluntary submittal, ☑ a DSA required submittal (attach DSA notice requiring submission).

5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:

Name of the Design Professional In General Responsible Charge: MAX IVAN MEDINA

Professional License Number: C-24882	Discipline: ARCHITECT

Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.

Signature: Max Medina

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:

For addenda, revisions, or CCDs: CHECK THIS BOX ☐ to confirm that *all* post-approval documents have been stamped and signed by the Responsible Design Professional listed on form *DSA 1: Application for Approval of Plans and Specifications* for this project. (For *Deferred Submittals*, refer to *IR A-18: Use of Construction Documents Prepared by Other Professionals,* and *IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents*, when applicable, for signature and seal requirements.)

Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):

REVISE PREVIOUSLY APPROVED SHEET S2.1 TO INDICATE NON-STRUCTURAL AIR BARRIER AT WINDOW CONDITIONS AND TO REFERENCE NEW SKETCHES SK-01 - SK-06 FOR EXISTING UNSUPPORTED PLASTER CEILING CONDITION. ADD SK-01 - SK-06 FOR NEW FRAMING SUPPORT DETAILS AT EXISTING UNSUPPORTED PLASTER CONDITION.

List of DSA-approved drawings affected by this post-approval document:

A3.01, A3.02, S2.1

DSA USE ONLY

SSS JC Date 5/2/24 ☒Approved ☐Disapproved ☐Not Required

Comments: CCD was previously submitted as Adden #1

FLS mnr Date 04.02.2024 ☒Approved ☐Disapproved ☐Not Required

Comments:

ACS BAB Date 04/24/2024 ☒Approved ☐Disapproved ☐Not Required

Comments:

Returned	DSA STAMP
Date:	APPROVED DIV. OF THE STATE ARCHITECT APP: 02-121377 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 05/01/2024
By:	

1101 Creekside Ridge Dr., Suite 150 Roseville, CA 95678 916.772.7688 kpff.com

CCD NO. 01 NARRATIVE

School District/Owner: **Lodi Unified School District**
Project Name/School: **Lodi High School**
DSA File/Appl No.: **39-H4 /02-121377**
CCD Number: **#01** Category: **A**
CCD Description:

DESCRIPTION OF CHANGES

STRUCTURAL:

Details on sheet S2.1 have been revised to reflect new non-structural framing required to support an air barrier above windows. Additionally, sketches SK-01 – SK-06 have been included to show new support framing required for the currently unsupported section of plaster at the interior edge of the existing window systems.

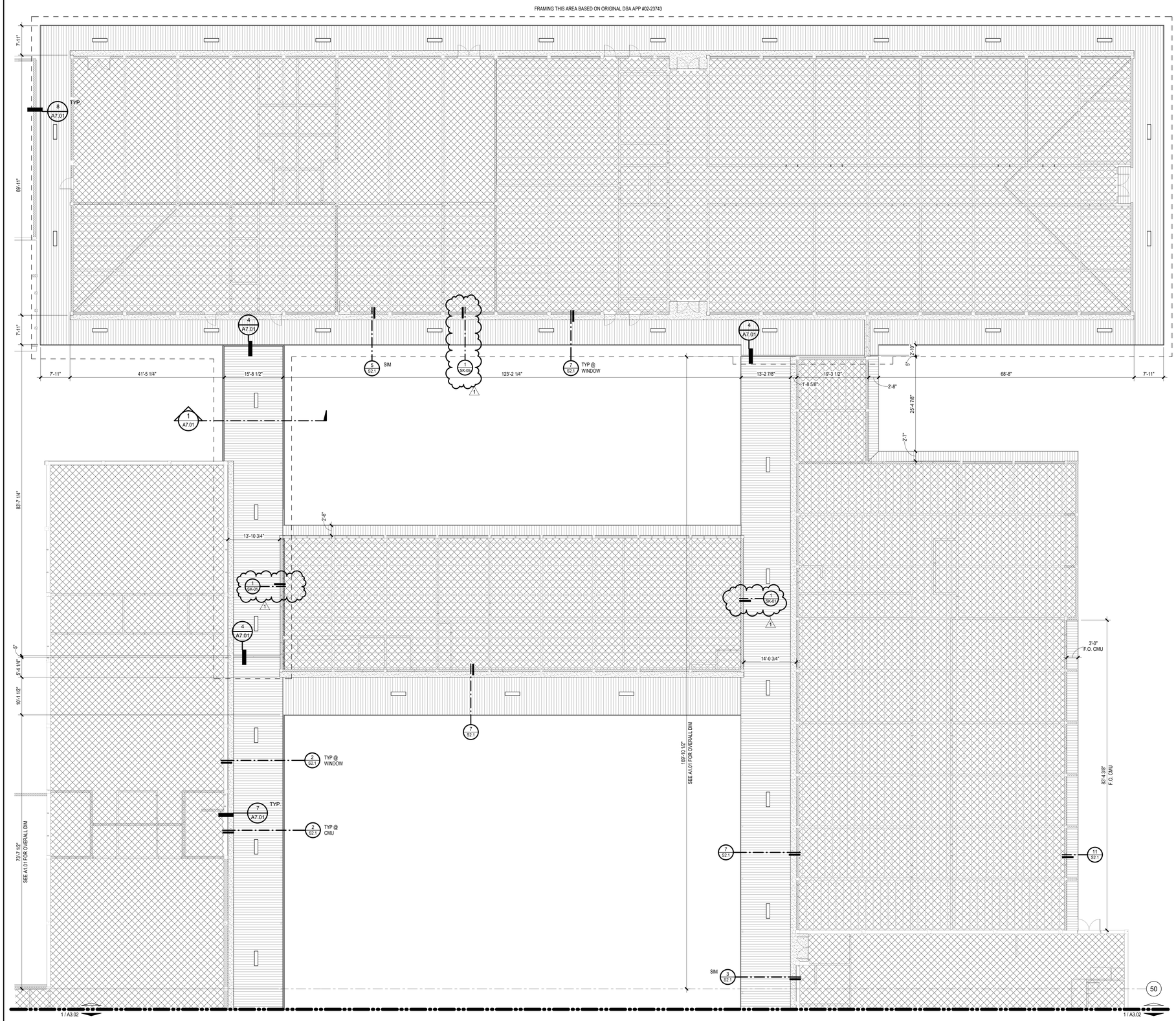
ATTACHMENTS

STRUCTURAL SKETCHES *(8 1/2x11) & (30x42 at sheet S2.1):*

CCD DWG #	REF. DWG #	DRAWING NAME	Calculation Reference
S2.1		S2.1 -	
SK-1	S2.1	Ceiling to Overhead Joist Connection-Parallel Joists	CCD 01 CALCS V2
SK-2		Lateral Brace Attachment to Blkg	CCD 01 CALCS V2
SK-3		Compression Brace to Blkg	CCD 01 CALCS V2
SK-4		Lateral Brace to Blkg - Perpendicular	CCD 01 CALCS V2
SK-5	S2.1	Ceiling to Overhead Joist Connection-Perp Joists	CCD 01 CALCS V2
SK-6	S2.1	Ceiling to Overhead Joist Connection-Double Angles	CCD 01 CALCS V2

CCD01 Calcs

A3.01 - REFLECTED CEILING PLAN - NORTH



1 REFLECTED CEILING PLAN
SCALE: 3/32" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL SOFFIT HEIGHTS ARE 10'-0" ABOVE FINISH FLOOR LEVEL, U.N.O.
2. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
3. DIMENSIONS TO BUILDINGS ARE FACE OF COLUMN, U.N.O.
4. DIMENSIONS TO OVERHANG EDGE ARE TO INSIDE FACE OF FACIA, U.N.O.
5. EXISTING FRAMING BASED ON ORIGINAL DSA APP #02-13335, U.N.O. NOTIFY ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.

CEILING LEGEND

(E) INTERIOR SPACE NOT IN SCOPE

SPM-1 - METAL SOFFIT PANEL SYSTEM
RE: A7.01 FOR ATTACHMENT DETAILS

CPS-1 - CEMENT PLASTER SOFFIT
RE: A7.01 FOR ATTACHMENT DETAILS

FIXTURE LEGEND

SURFACE MOUNTED LIGHT FIXTURE CONNECTED TO (E) J-BOX - ALL LOCATIONS ARE APPROXIMATE (A / A7.01)

Not for permitting or construction

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-121377 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/01/2024

PBK

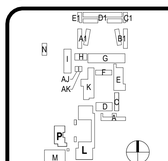
ARCHITECT PBK Architects, Inc.
PBK.com
SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-682-9494 P

LODI HS BREEZEWAY REPAIR

LODI UNIFIED SCHOOL DISTRICT
LODI HIGH SCHOOL

3 South Pacific Avenue
Lodi, CA 95242
Construction Documents
DSA APPL. NO. 02-121377 FILE NO. 39-H4

Lodi Unified School District



KEY PLAN
PLAN NORTH

LICENSED ARCHITECT
MAX IVAN MEDINA
C-24882
REN. 06-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER	220578
DATE	03/22/2024
DRAWN BY: MG	CHKED BY: LK

REVISIONS

#	DESCRIPTION	DATE
1	CCD #01	03/22/2024

Construction Documents

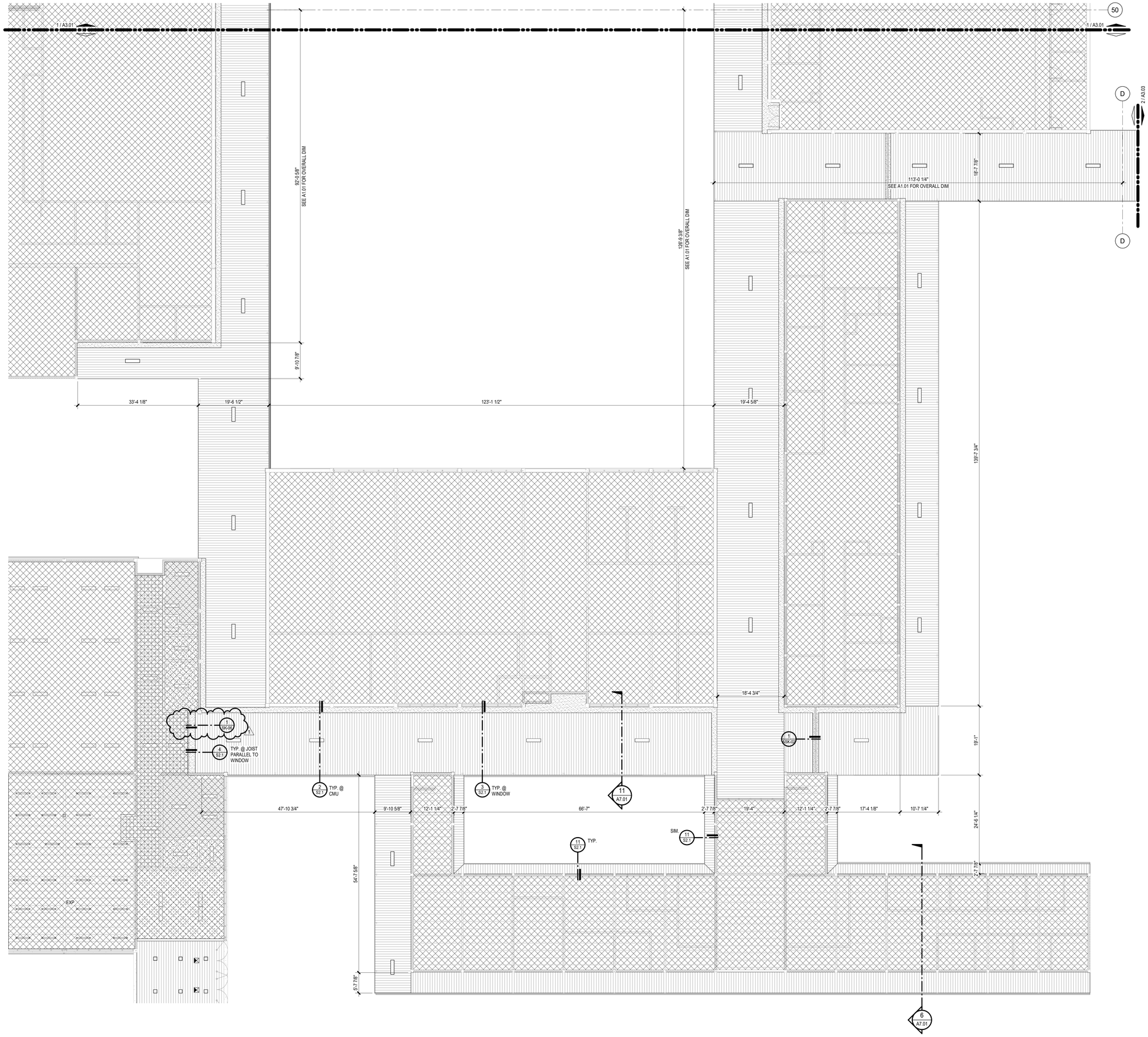
REFLECTED CEILING PLAN - NORTH

This document is for plan review only

A3.01

C:\Users\mgonzales\Documents\220578_A23_Lodi Aquatic Center_mavrick.gonzalesMQX5M.rvt
3/22/2024 2:41:37 PM

A3.02 - REFLECTED CEILING PLAN - SOUTH



1 REFLECTED CEILING PLAN
SCALE: 3/32" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL SOFFIT HEIGHTS ARE 10'-0" ABOVE FINISH FLOOR LEVEL, U.N.O.
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3. DIMENSIONS TO BUILDINGS ARE FACE OF COLUMN, U.N.O.
4. DIMENSIONS TO OVERHANG EDGE ARE TO INSIDE FACE OF FACIA, U.N.O.
5. EXISTING FRAMING BASED ON ORIGINAL DSA APP #02-13335, U.N.O. NOTIFY ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.

CEILING LEGEND

(E) INTERIOR SPACE NOT IN SCOPE

SPM-1 - METAL SOFFIT PANEL SYSTEM
RE: A7.01 FOR ATTACHMENT DETAILS

CPS-1 - CEMENT PLASTER SOFFIT
RE: A7.01 FOR ATTACHMENT DETAILS

FIXTURE LEGEND

SURFACE MOUNTED LIGHT FIXTURE CONNECTED TO (E) J-BOX - ALL LOCATIONS ARE APPROXIMATE (A7.01)

Not for permitting or construction

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-121377 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/01/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-682-9494 P

LODI HS BREEZEWAY REPAIR

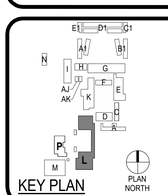
LODI UNIFIED SCHOOL DISTRICT
LODI HIGH SCHOOL

3 South Pacific Avenue
Lodi, CA 95242

Construction Documents

DSA-APPL. NO. 02-121377 FILE NO. 39-H4

Lodi Unified School District



LICENSED ARCHITECT
MAX IVAN MEDINA
C-34882
REN. 06-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
220578

DATE 03/22/2024

DRAWN BY: MG CHKED BY: LK

REVISIONS

#	DESCRIPTION	DATE
1	CCD #01	03/22/2024

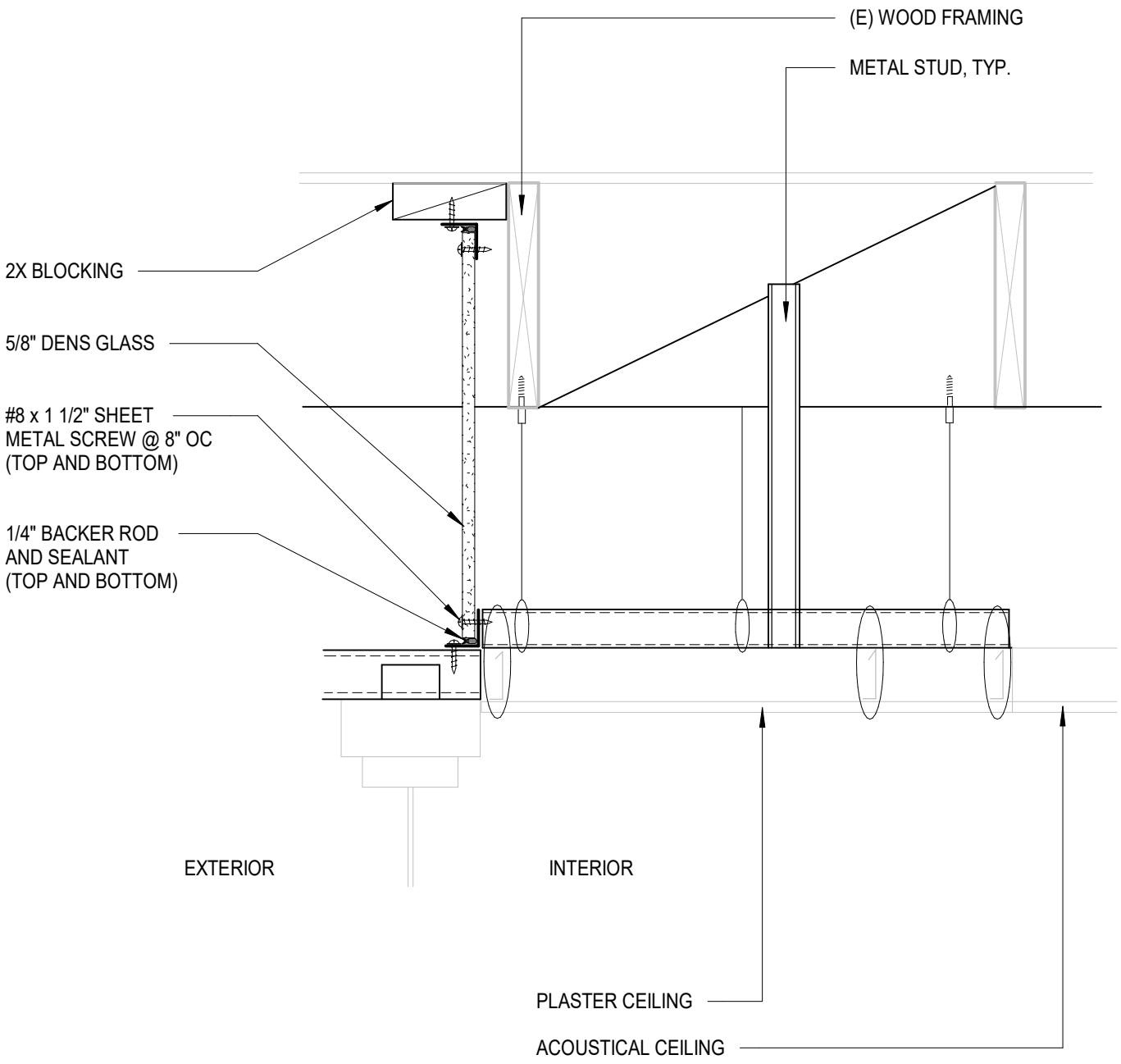
Construction Documents

REFLECTED CEILING PLAN - SOUTH

This document is for plan review only

A3.02

C:\Users\mgonzales\Documents\220578_A23_Lodi Aquatic Center_mavrick.gonzalesMQX5M.rvt
3/22/2024 2:45:24 PM



RE: 1/SK-01 FOR ALL STRUCTURAL IMPROVEMENTS

PBK
SACRAMENTO
2520 Venture Oaks Way,
Suite 440
Sacramento, CA 95833
916-682-9494 P

LICENSED ARCHITECT
MAX IVAN MEDINA
C-24882
REN. 06-30-23
STATE OF CALIFORNIA

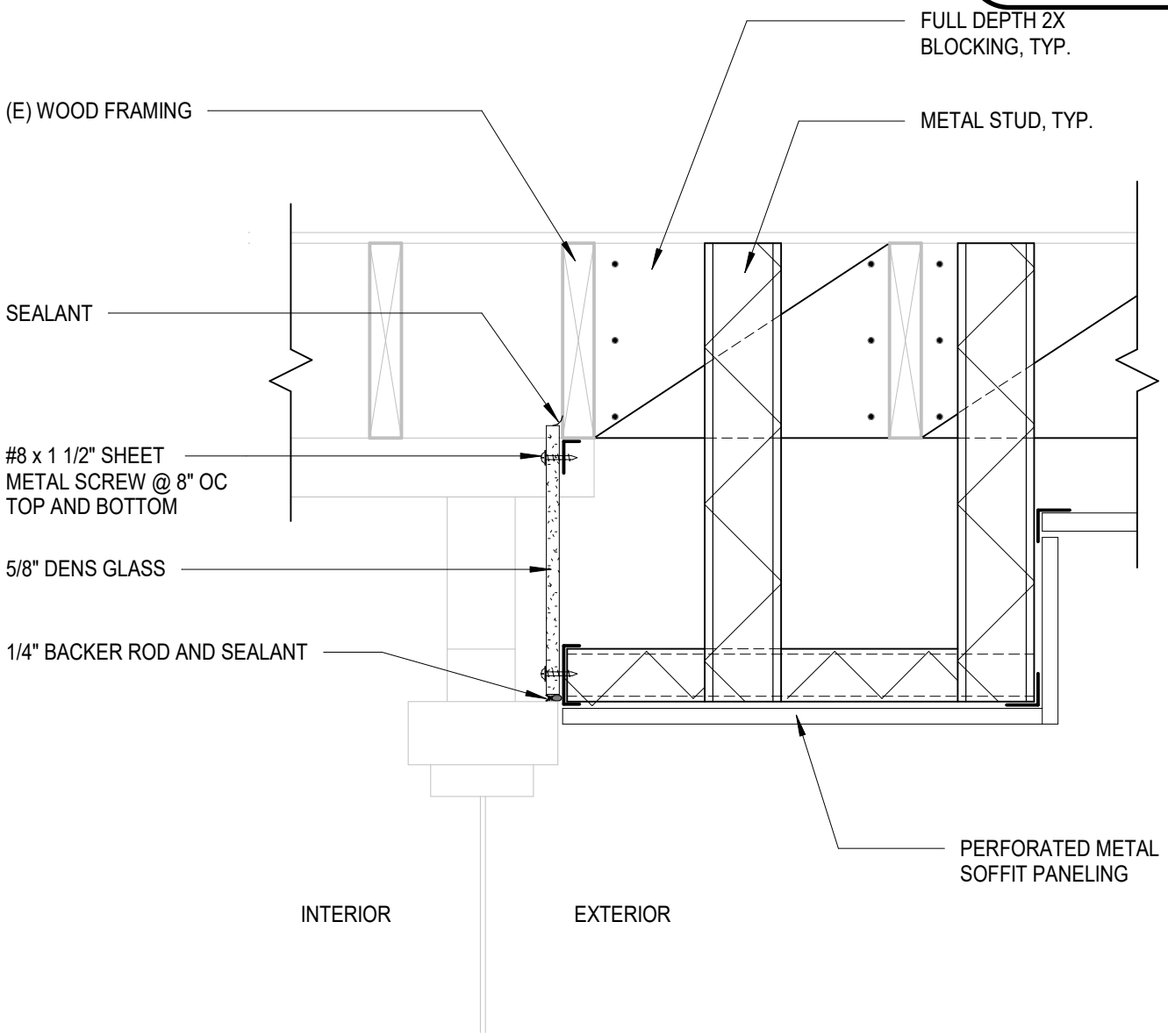
AIR BARRIER FOR CEILING TO OVERHEAD JOIST CONNECTION @ PARALLEL JOISTS

LODI UNIFIED SCHOOL DISTRICT
LODI HS BREEZEWAY REPAIR
3 South Pacific Avenue
Lodi, CA 95242

DSA APPL. NO. 02-121377 DSA FILE NO. 39-H4

SHEET REF:	
PROJECT #:	220578
DATE:	03/21/2024
REV:	CCD #01

ASK-01



RE: 7/S2.1 FOR ALL STRUCTURAL IMPROVEMENTS

PBK
SACRAMENTO
2520 Venture Oaks Way,
Suite 440
Sacramento, CA 95833
916-682-9494 P

LICENSED ARCHITECT
MAX IVAN MEDINA
C-24882
REN. 06-30-23
STATE OF CALIFORNIA

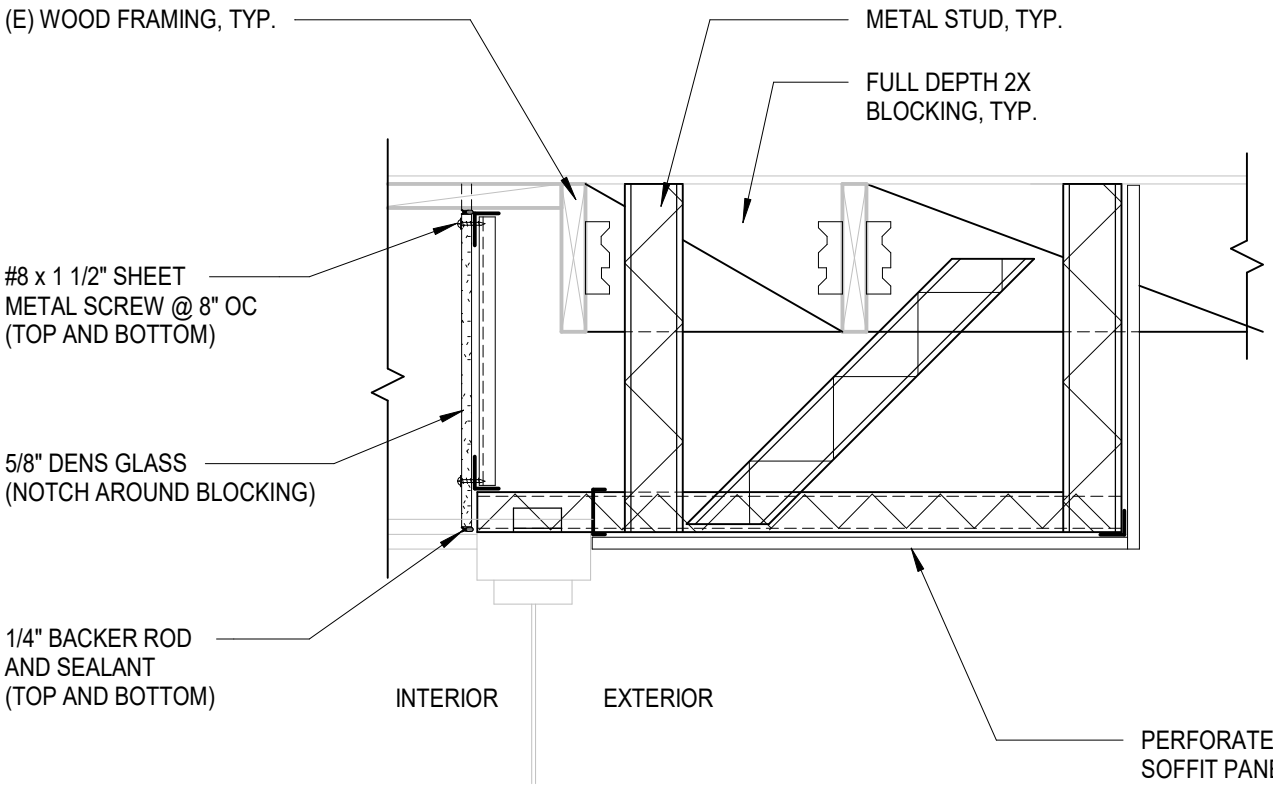
AIR BARRIER FOR METAL STUD SOFFIT @ (E) WINDOW w/ METAL STUD CEILING ATTACHMENT

LODI UNIFIED SCHOOL DISTRICT
LODI HS BREEZEWAY REPAIR
3 South Pacific Avenue
Lodi, CA 95242

DSA APPL. NO. 02-121377 DSA FILE NO. 39-H4

SHEET REF:	
PROJECT #:	220578
DATE:	03/22/2024
REV:	CCD #01

ASK-02



RE: 9/S2.1 FOR ALL STRUCTURAL IMPROVEMENTS

PBK
SACRAMENTO
2520 Venture Oaks Way,
Suite 440
Sacramento, CA 95833
916-682-9494 P

LICENSED ARCHITECT
MAX IVAN MEDINA
C-24882
REN. 06-30-23
STATE OF CALIFORNIA

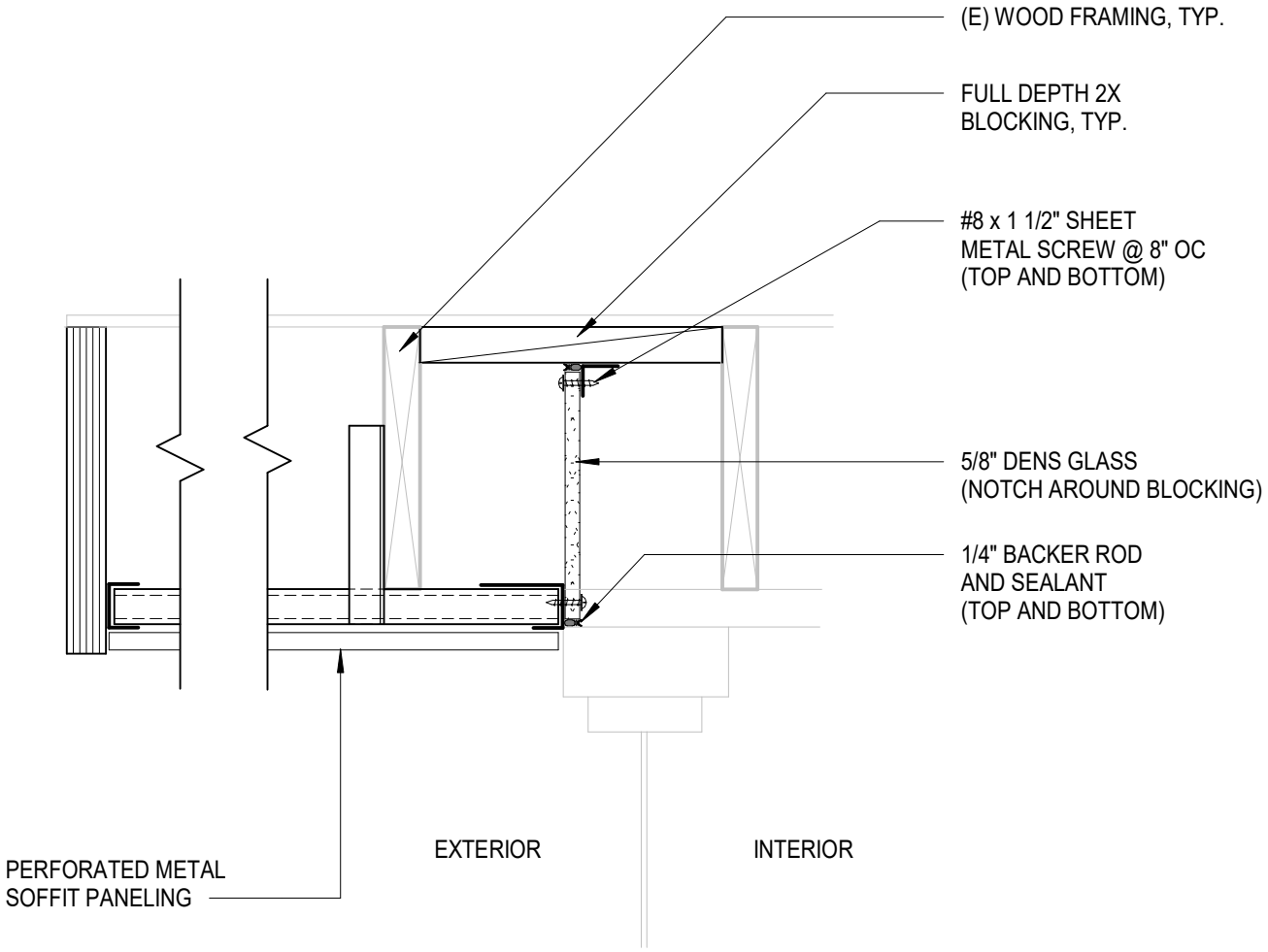
AIR BARRIER FOR METAL STUD SOFFIT w/ NO (E) WINDOW SUPPORTS

LODI UNIFIED SCHOOL DISTRICT
LODI HS BREEZEWAY REPAIR
3 South Pacific Avenue
Lodi, CA 95242

DSA APPL. NO. 02-121377 DSA FILE NO. 39-H4

SHEET REF:	
PROJECT #:	220578
DATE:	03/22/2024
REV:	CCD #01

ASK-03



RE: 11/S2.1 FOR ALL STRUCTURAL IMPROVEMENTS

PBK
SACRAMENTO
2520 Venture Oaks Way,
Suite 440
Sacramento, CA 95833
916-682-9494 P

LICENSED ARCHITECT
Max Medina
MAX IVAN MEDINA
C-24882
REN. 06-30-23
STATE OF CALIFORNIA

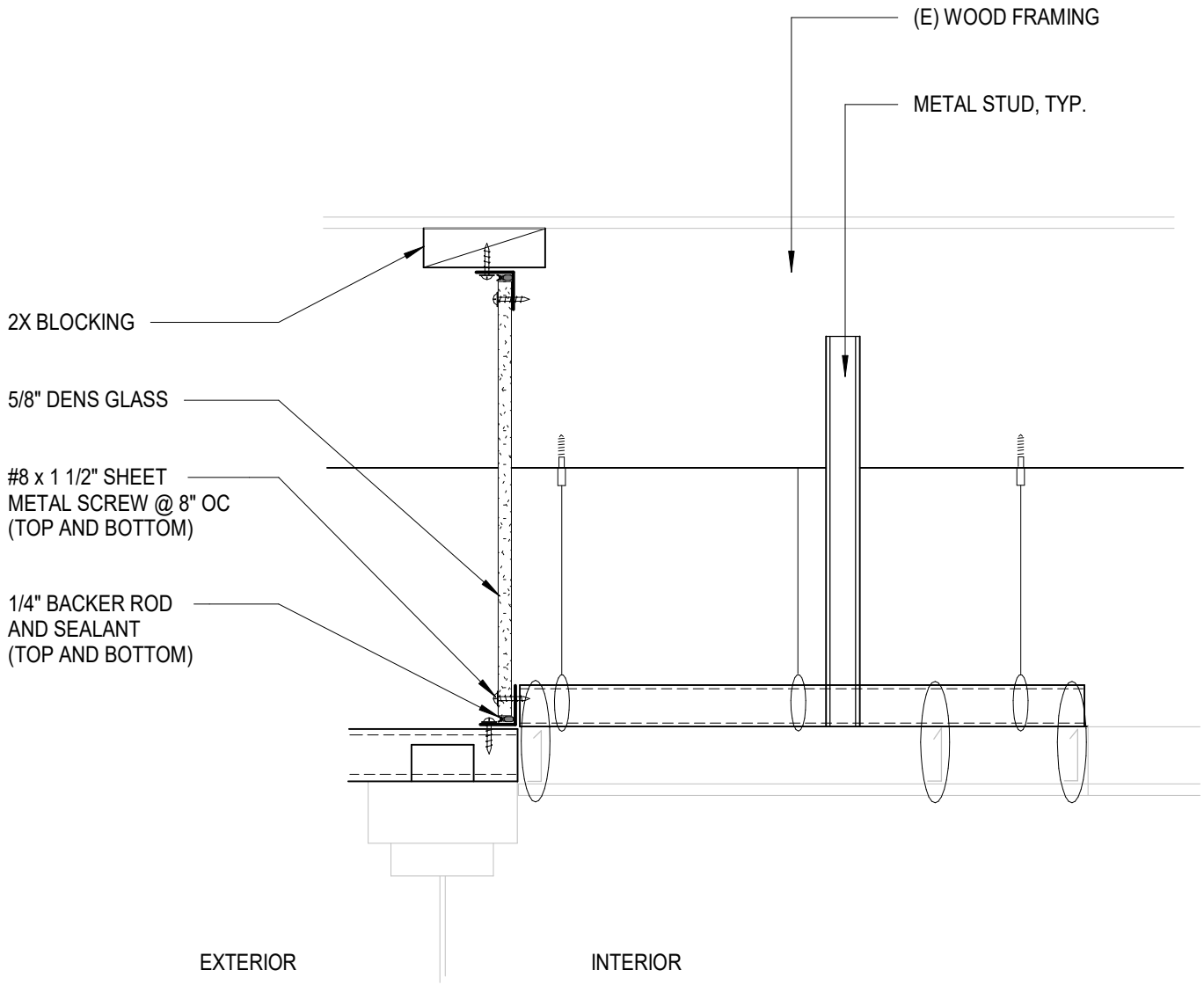
AIR BARRIER FOR STUD JOIST @ WINDOW

LODI UNIFIED SCHOOL DISTRICT
LODI HS BREEZEWAY REPAIR
3 South Pacific Avenue
Lodi, CA 95242

DSA APPL. NO. 02-121377 DSA FILE NO. 39-H4

SHEET REF:	
PROJECT #:	220578
DATE:	03/22/2024
REV:	CCD #01

ASK-04



RE: 1/SK-05 FOR ALL STRUCTURAL IMPROVEMENTS

PBK
SACRAMENTO
2520 Venture Oaks Way,
Suite 440
Sacramento, CA 95833
916-682-9494 P

LICENSED ARCHITECT
MAX IVAN MEDINA
C-24882
REN. 06-30-23
STATE OF CALIFORNIA

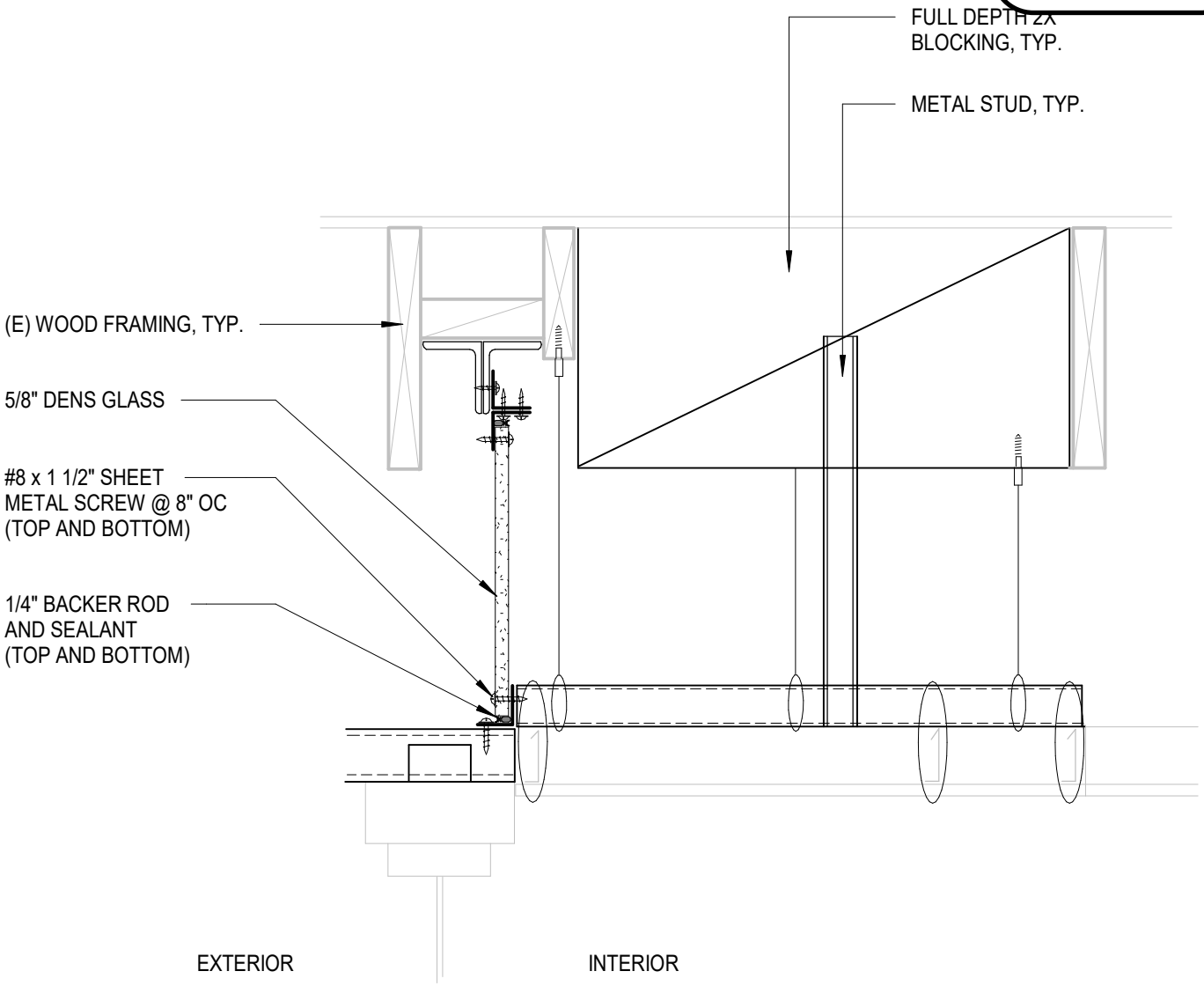
AIR BARRIER FOR CEILING TO OVERHEAD JOIST CONNECTION @ PERPENDICULAR JOISTS

LODI UNIFIED SCHOOL DISTRICT
LODI HS BREEZEWAY REPAIR
3 South Pacific Avenue
Lodi, CA 95242

DSA APPL. NO. 02-121377 DSA FILE NO. 39-H4

SHEET REF:	
PROJECT #:	220578
DATE:	03/21/2024
REV:	CCD #01

ASK-05



RE: 1/SK-06 FOR ALL STRUCTURAL IMPROVEMENTS

PBK
SACRAMENTO
2520 Venture Oaks Way,
Suite 440
Sacramento, CA 95833
916-682-9494 P

LICENSED ARCHITECT
MAX IVAN MEDINA
C-24882
REN. 06-30-23
STATE OF CALIFORNIA

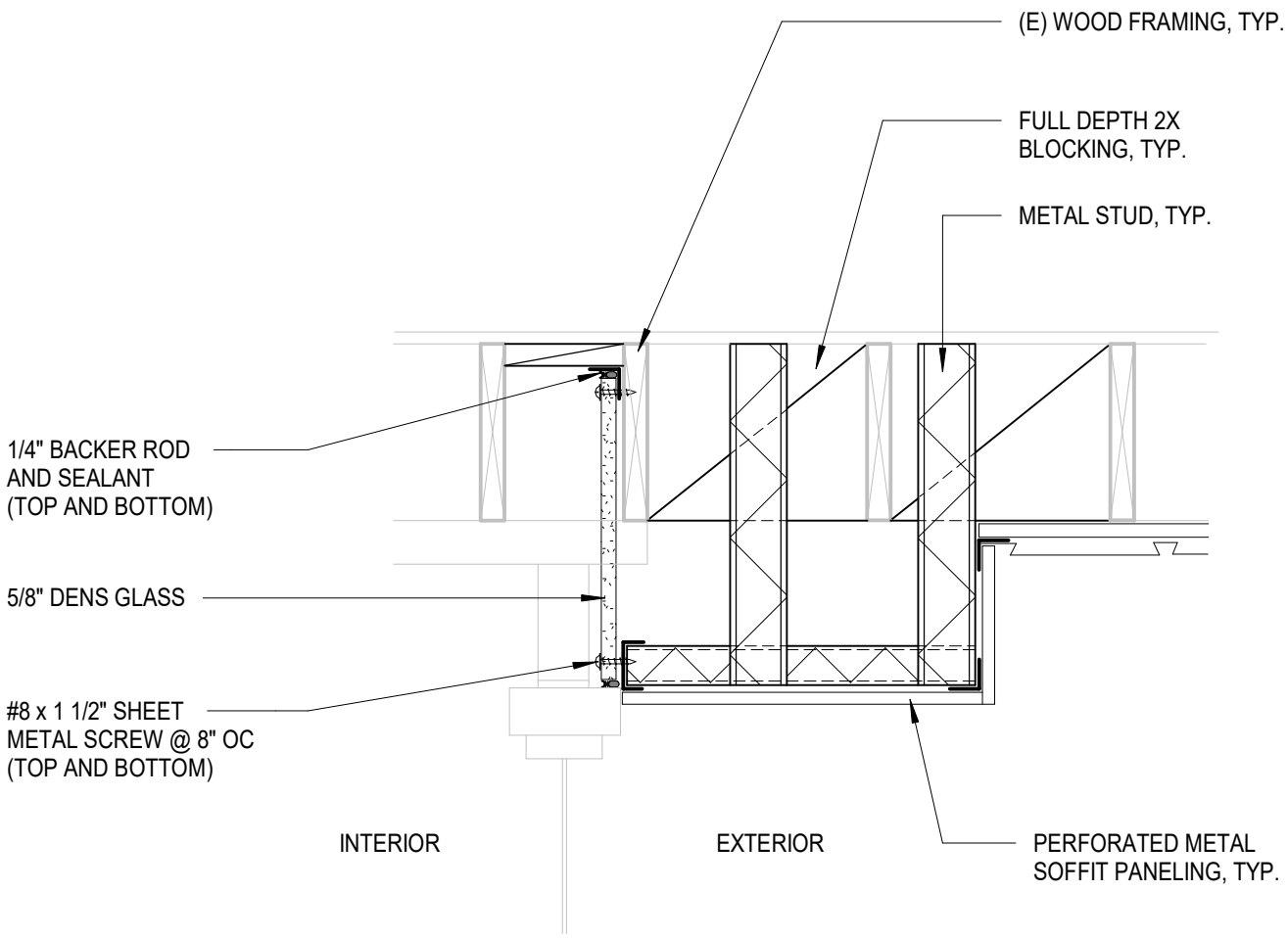
AIR BARRIER FOR CEILING TO OVERHEAD JOIST CONNECTION @ DOUBLE ANGLES

LODI UNIFIED SCHOOL DISTRICT
LODI HS BREEZEWAY REPAIR
3 South Pacific Avenue
Lodi, CA 95242

DSA APPL. NO. 02-121377 DSA FILE NO. 39-H4

SHEET REF:	
PROJECT #:	220578
DATE:	03/21/2024
REV:	CCD #01

ASK-06



RE: 4/S2.1 FOR ALL STRUCTURAL IMPROVEMENTS

PBK
SACRAMENTO
2520 Venture Oaks Way,
Suite 440
Sacramento, CA 95833
916-682-9494 P

LICENSED ARCHITECT
MAX IVAN MEDINA
C-24882
REN. 06-30-23
STATE OF CALIFORNIA

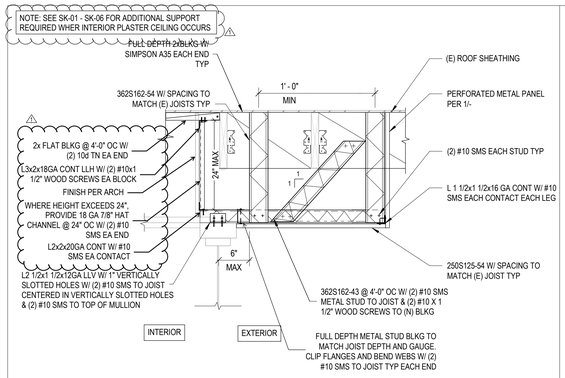
AIR BARRIER FOR METAL STUD SOFFIT @ (E) WINDOW - PARALLEL CONDITION

LODI UNIFIED SCHOOL DISTRICT
LODI HS BREEZEWAY REPAIR
3 South Pacific Avenue
Lodi, CA 95242

DSA APPL. NO. 02-121377 DSA FILE NO. 39-H4

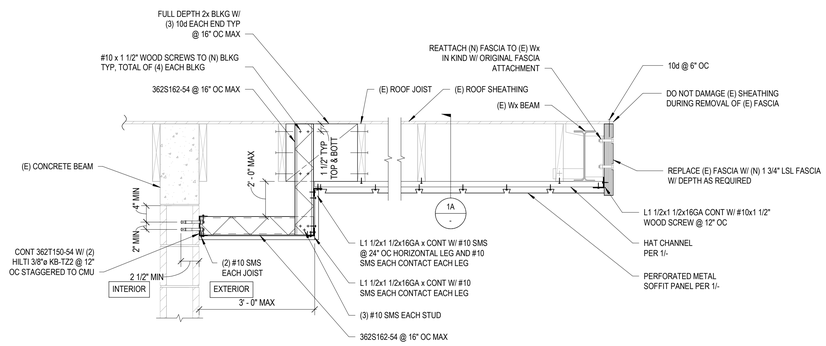
SHEET REF:	
PROJECT #:	220578
DATE:	03/22/2024
REV:	CCD #01

ASK-07



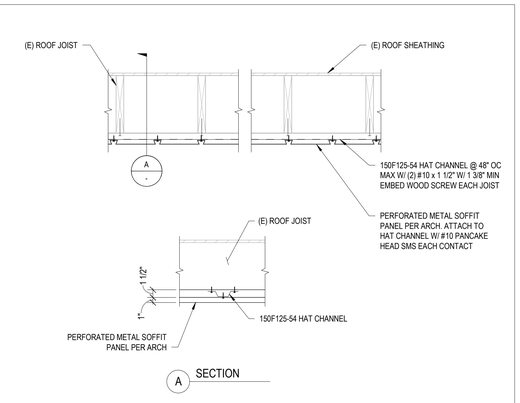
METAL STUD SOFFIT - NO (E) WINDOW SUPPORTS

1" = 1'-0" | 9



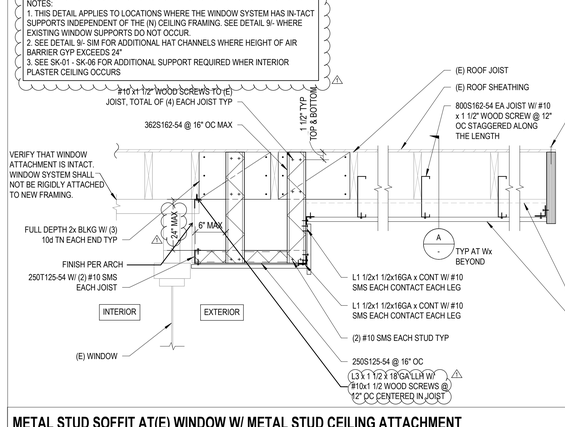
METAL STUD SOFFIT AT (E) JOIST CONNECTION - PARALLEL CONDITION

1" = 1'-0" | 5



HAT CHANNEL FURRING TO (E) ROOF JOIST CONNECTION

1" = 1'-0" | 1



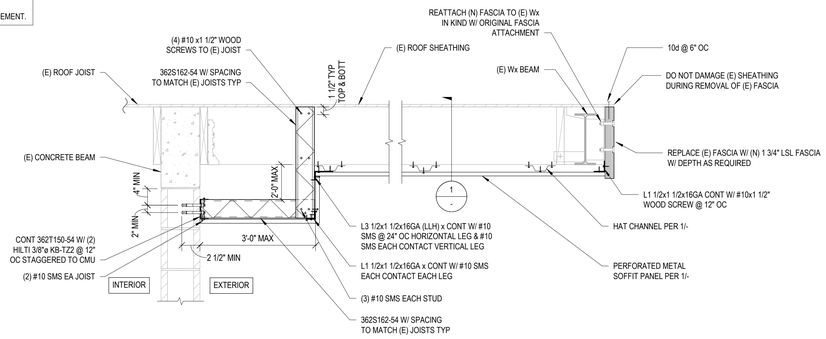
METAL STUD OVERHANG ABOVE STOREFRONT

1" = 1'-0" | 10

NOT USED

1" = 1'-0" | 6

NOTE:
DAMAGED JOISTS, FASCIA, LEDGER, ETC. SHALL BE REPLACED IN KIND. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME 5% JOIST REPLACEMENT.

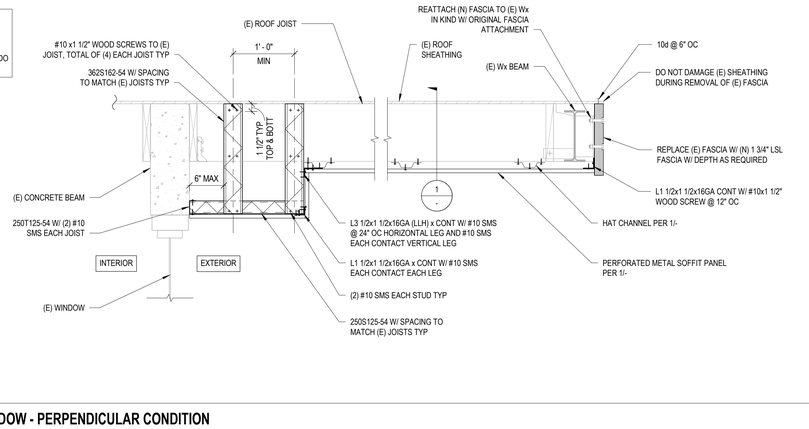


METAL STUD SOFFIT TO (E) JOIST CONNECTION - PERPENDICULAR CONDITION

1" = 1'-0" | 2

METAL STUD SOFFIT AT(E) WINDOW W/ METAL STUD CEILING ATTACHMENT

1" = 1'-0" | 7



METAL STUD SOFFIT AT (E) WINDOW - PERPENDICULAR CONDITION

1" = 1'-0" | 3

STUD JOIST AT WINDOW

1" = 1'-0" | 11

FASCIA REPLACEMENT DETAIL

3" = 1'-0" | 8

METAL STUD SOFFIT AT (E) WINDOW - PARALLEL CONDITION

1" = 1'-0" | 4

LODI HS BREEZEWAY REPAIR

LODI UNIFIED SCHOOL DISTRICT
LODI HIGH SCHOOL
3 South Pacific Avenue
Lodi, CA 95242
Construction Documents
DSA APPL. NO. 02-121368 FILE NO. 34-70

ARCHITECT PBK Architects, Inc.
PBK.com
SACRAMENTO
2520 Venture Oaks Way, Suite 440
Sacramento, CA 95833
916-682-9494 P

STRUCTURAL ENGINEER KPFF
kpff
1101 Creekside Ridge Dr. Suite 150
Roseville, CA 95678
O:916.772.7688
F:916.772.7699
www.kpff.com

Architect / Engineer
REGISTERED PROFESSIONAL ENGINEER DANIEL ALLWARDT No. S-6136 STRUCTURAL STATE OF CALIFORNIA
KPFF PROJECT# 2200-217

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
220578
DATE 06/29/2023
DRAWN BY: HM CHKED BY: MD

REVISIONS

#	DESCRIPTION	DATE
1	CCD 1	03/21/2024

Construction Documents

This document is for plan review only

CEILING FRAMING DETAILS

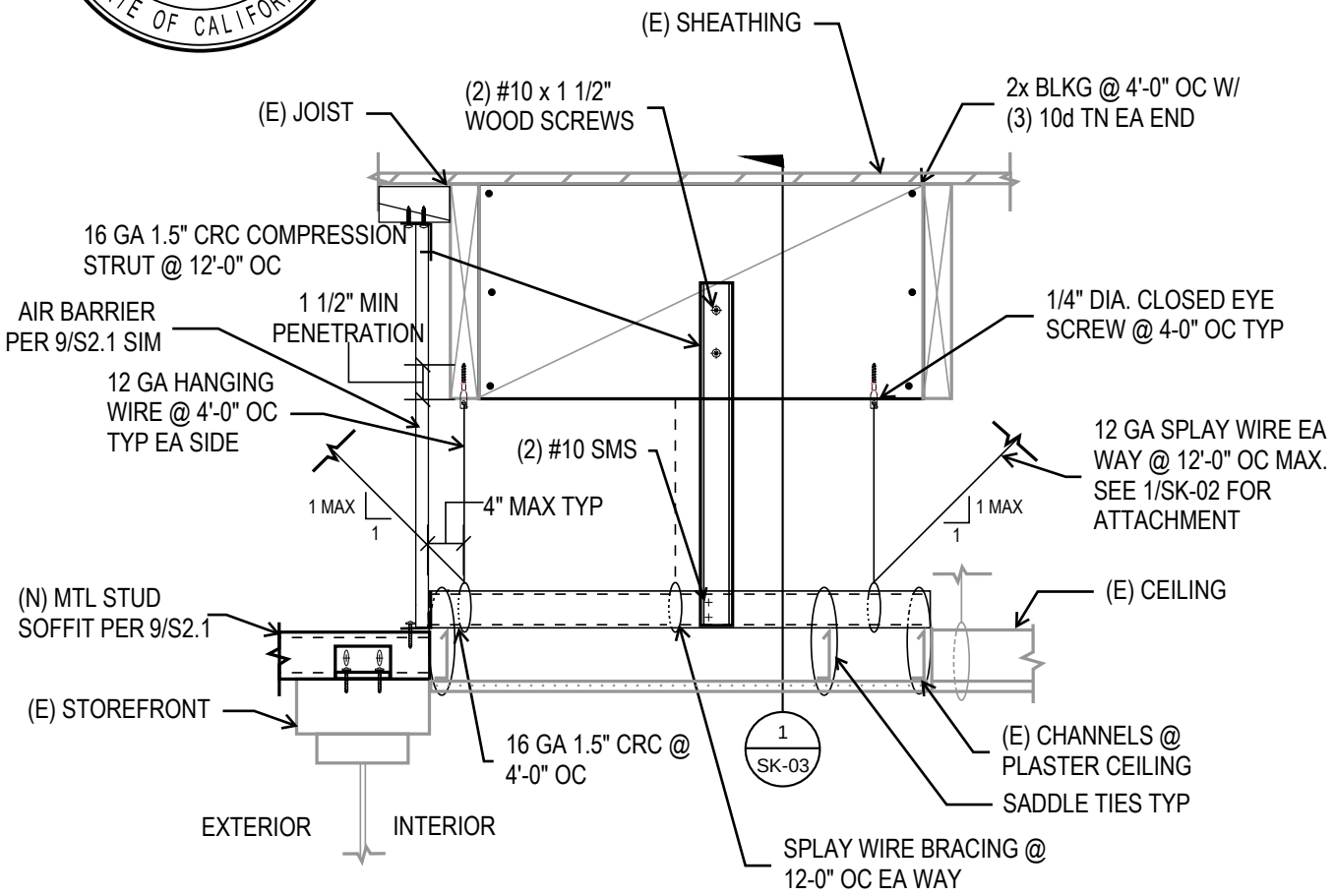
S2.1

kpff
1101 Creekside Ridge Dr, Ste 150
Roseville, CA 95678
(916) 772-7688 www.kpff.com

project Lodi HS Breezeway
location Lodi, CA
client PBK
by
date 04/
job no.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-121377 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/01/2024

REGISTERED PROFESSIONAL ENGINEER
DANIEL ALLWARDT
S 4136
Exp. 6-30-24
STRUCTURAL
STATE OF CALIFORNIA



1
SK-01

CEILING TO OVERHEAD JOIST CONNECTION - PARALLEL JOISTS

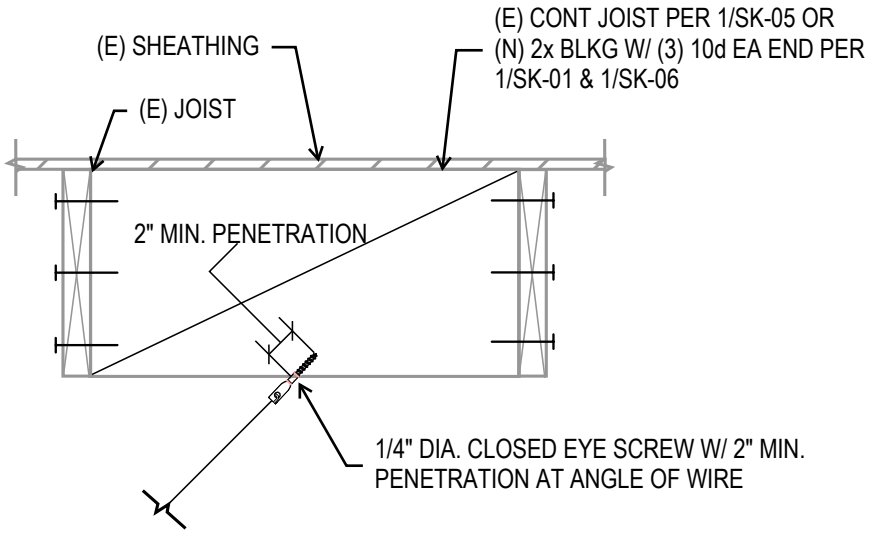
Scale: NTS

kpff
1101 Creekside Ridge Dr, Ste 150
Roseville, CA 95678
(916) 772-7688 www.kpff.com

project Lodi HS Breezeway
location Lodi, CA
client PBK
by
date 04/
job no.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-121377 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/01/2024

REGISTERED PROFESSIONAL ENGINEER
DANIEL ALLWARD
S 4136
Exp. 6-30-24
STRUCTURAL
STATE OF CALIFORNIA



1 LATERAL BRACE ATTACHMENT TO BLKG
SK-02

Scale: NTS

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project Lodi HS Breezeway
location Lodi, CA
client PBK
by
date 04/
job no.

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DIV. OF THE STATE ARCHITECT
APP: 02-121377 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/01/2024

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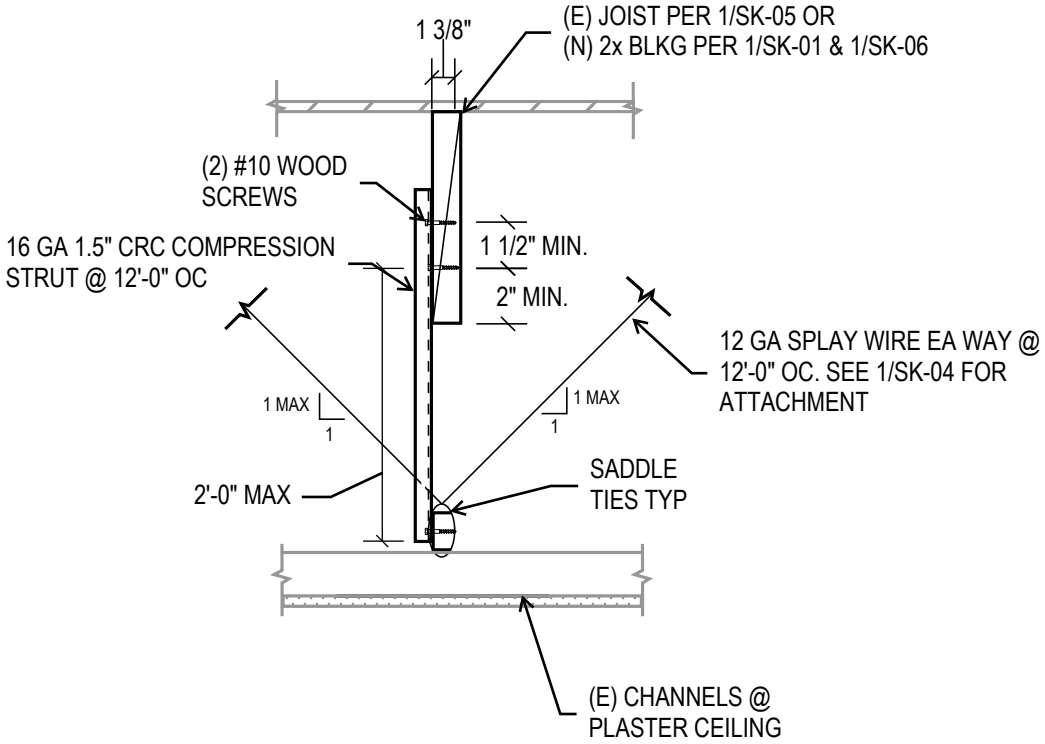

1 COMPRESSION BRACE TO BLKG
SK-03

Scale: NTS

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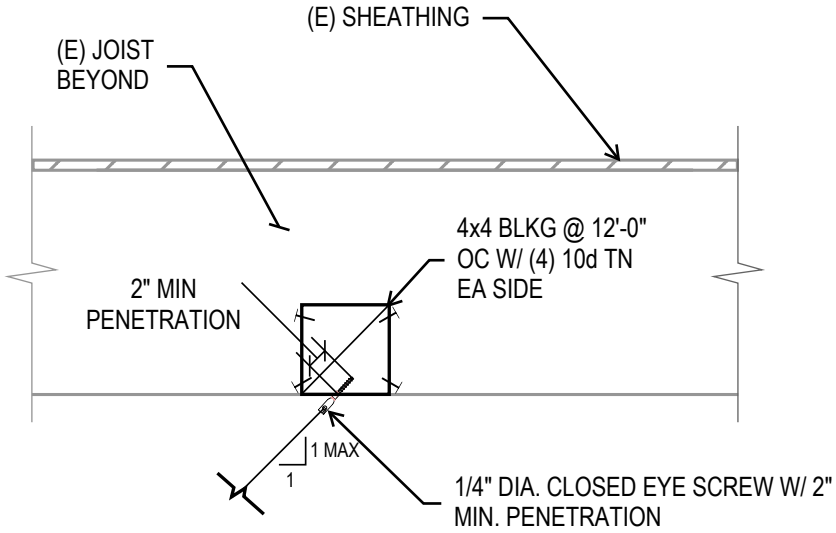

1 SK-04 LATERAL BRACE TO BLKG - PERPENDICULAR

Scale: NTS

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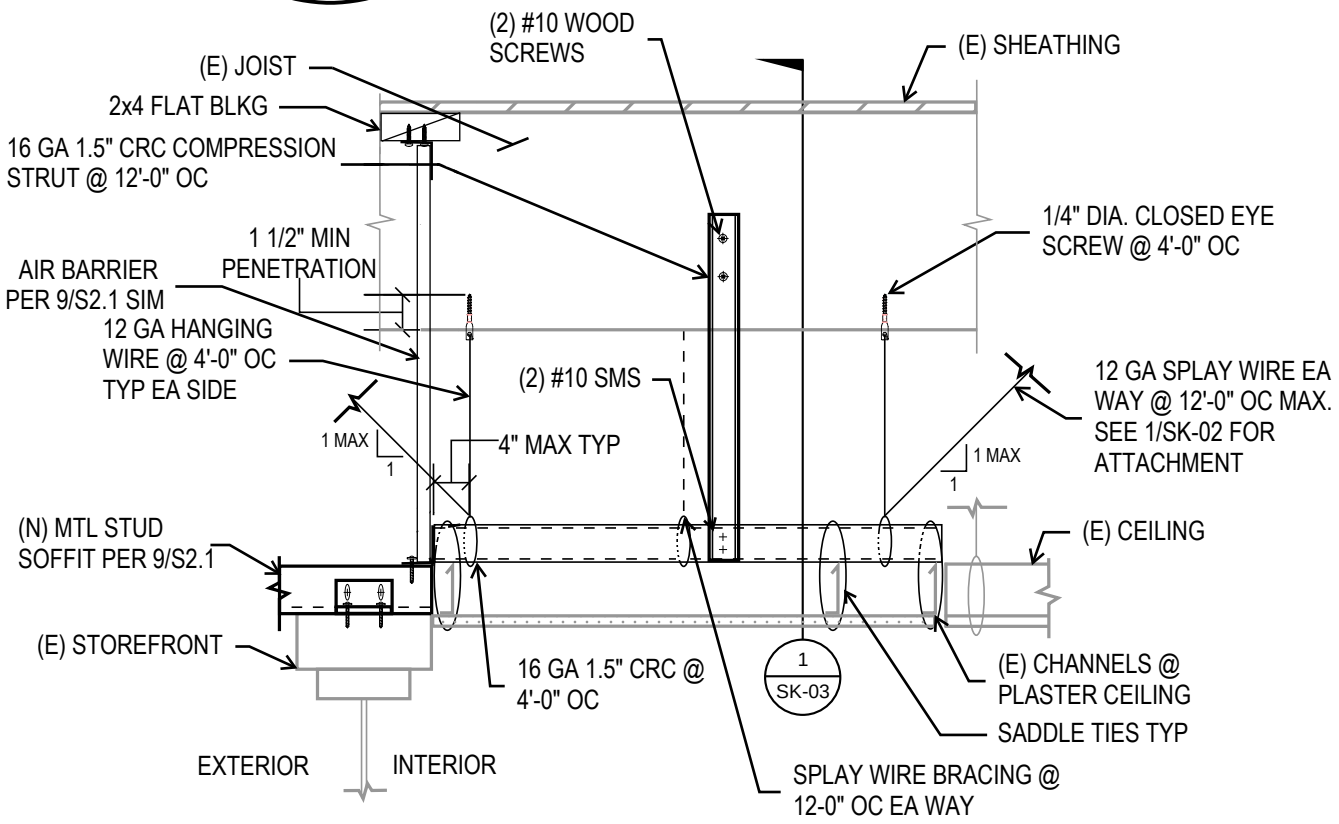

1
SK-05

CEILING TO OVERHEAD JOIST CONNECTION - PERPENDICULAR JOISTS

Scale: NTS

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project Lodi HS Breezeway
location Lodi, CA
client PBK
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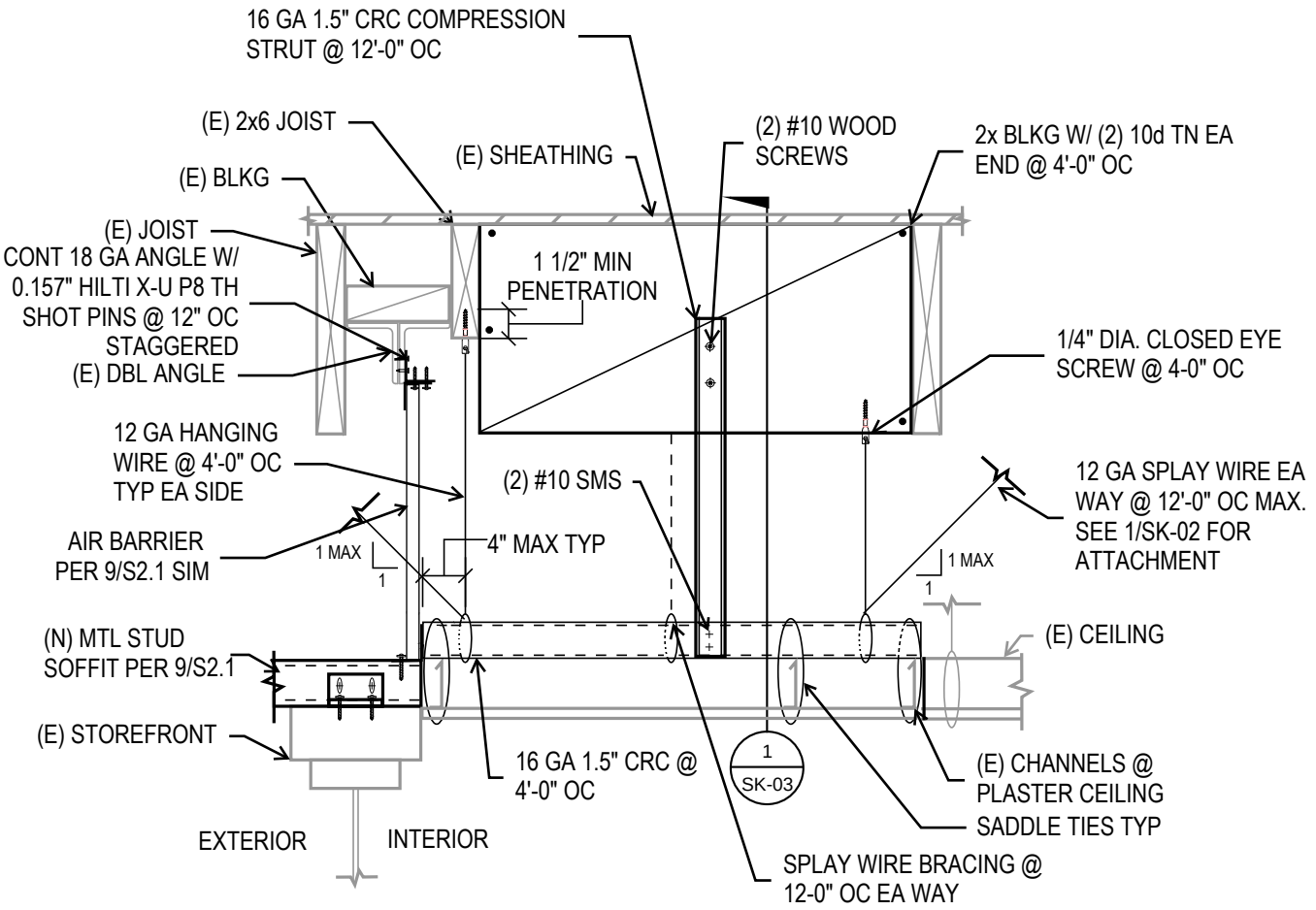

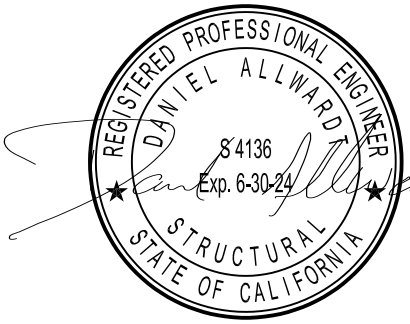

1
SK-06

CEILING TO OVERHEAD JOIST CONNECTION - DOUBLE ANGLES

Scale: NTS

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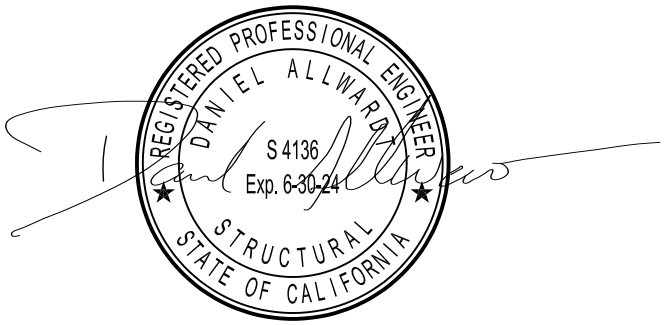
STRUCTURAL CALCULATIONS

FOR

Lodi High School Breezeway Repair
CCD 01

KPFF Job # 2200-217



APRIL 26, 2024

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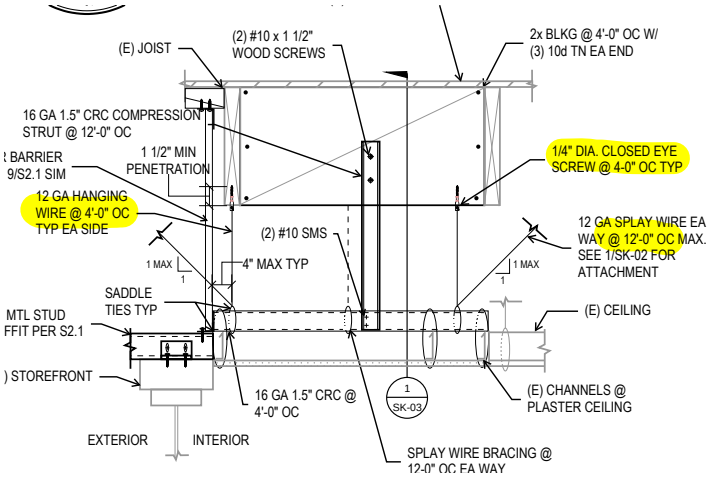
project	Lodi HS Breezeway	by	AA	sheet no. 1
location		date	03/21/24	
client		job no.	2200-217	

Unsupported Plaster Calc:



-Gravity

Plaster DL: 10 psf

Max wire spacing is 4'-0" OC

Max plaster span ~2'-0"

Tributary to each wire:
A = (2 ft)(4 ft)/2 = 4 ft^2

DL = (10 psf)(4 ft^2) = 40 lb (ASD)

Per Table NDS 12.2A, 1/4" lag capcity: 225 lb/in
2" penetration → 450 lb capacity

-Tie wire capacity 12ga. 270 lbs

D/C: 15%

-Seismic

ASCE Table 13.5-1, Fasteners of Connecting System: $a_p = 1.25$, $R_p = 1.0$

$F_p = 0.4a_pS_{DS}W_p/(R_p/I_p)*(1+2z/h) = 0.4(1.25)(0.541)(10\ psf*2\ ft)/(1.0/1.0)*(1+2*1)$
$= 16.2$ plf

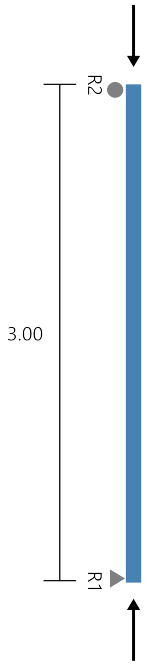
$F_{pmax} = 1.6S_{DS}I_pW_p = 1.6(0.541)(1.0)(10\ psf)(2\ ft) = 17.3$ plf

Diagonal Wire: 12'-0" OC
F = 0.7(16.2 plf)(12 ft) = 136 lbs (ASD)

-Wire at 45°
F_{wire} = 136 lbs/cos(45) = 193 lbs (ASD)

D/C: 71%

-Comp strut takes 136 lbs
see CFS report



Section: 162T100-54 (50 ksi) Single Track (unpunched)
Maxo = 255.8 ft-lb **Va =** 1634.4 lb **I =** 0.11 in^4

Loads have not been modified for strength checks
Loads have not been modified for deflection calculations

Bridging Connectors - Design Method =AISI S100

Span	Axial KyLy, KtLt	Flexual, Distortional	Connector	Stress Ratio
Span	None, None	None, N/A	N/A	-

Web Crippling

Support	Load (lb)	Bearing (in)	Pa (lb)	M (ft-lbs)	Max Int.	Stiffener?
R2	0.0	--Shear Connection w/ clip--				NO
R1	0.0	--Shear Connection w/ clip--				NO

	Code Check	Required	Allowed	Interaction	Notes
Span	Max. Axial, lbs	140.0(c)	2192.0(c)	6%	KΦ=0.00 lb-in/in Max KL/r = 113
	Max. Shear, lbs	0.0	1634.4	0%	
	Max. Moment (MaFy, Ma-dist), ft-lbs	0.0	255.8	0%	
	Moment Stability, ft-lbs	0.0	199.0	0%	
	Shear/Moment	0.00	1.00	0%	Shear 0.0, Moment 0.0
	Axial/Moment	0.06	1.00	6%	Axial 140.0(c), Moment 0.0
	Deflection Span, in	0.000	--meets L/0--		

Simpson Strong-Tie® Connectors

Support	Rx(lb)	Ry(lb)	Simpson Strong-Tie® Connector	Connector Interaction	Anchor Interaction
R2	0	0	SCB43.5(2) & (2) #12-24 SST X or XL to A36 Steel	0.00 %	0.00 %
R1	0	140	FCB43.5 Min(4#12-14) & (2) #12-24 SST X or XL to A36 Steel	9.40 %	22.40 %

* Reference catalog for connector and anchor requirement notes as well as screw placements requirement

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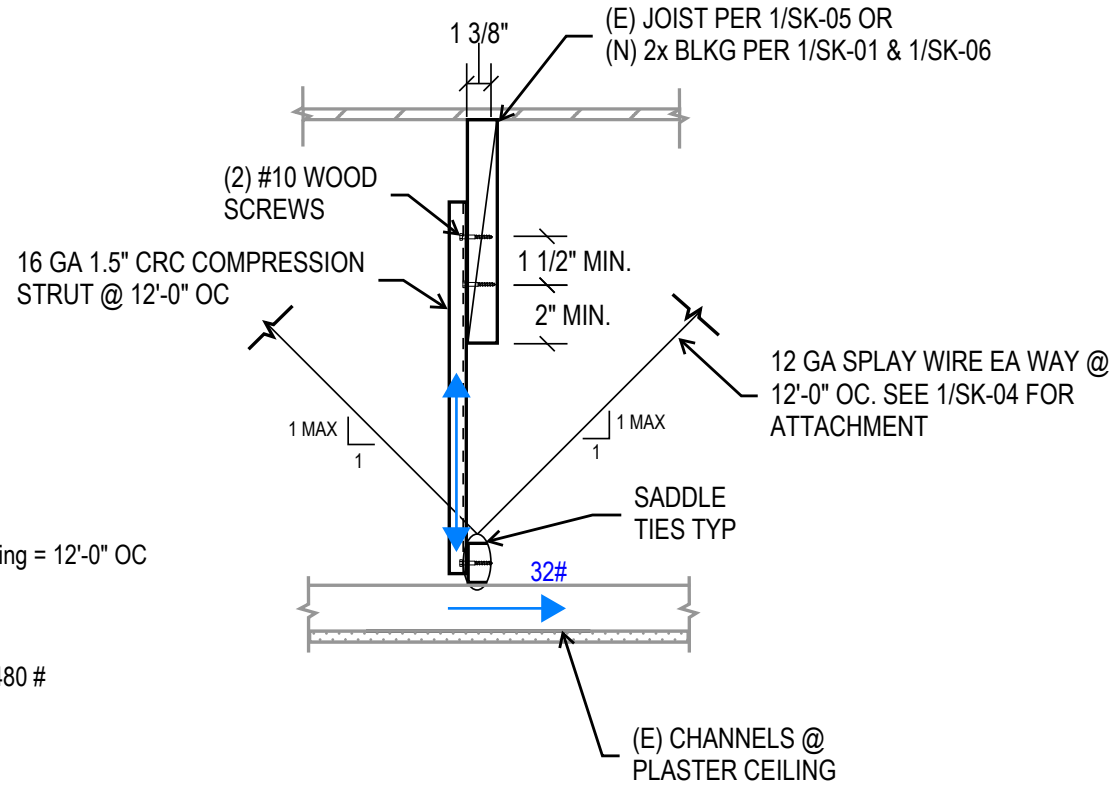
project	Lodi HS Breezeway	by	AA	sheet no. 3
location		date	04/25/24	
client		job no.	2200-217	



LOADING

DL (Plaster Ceiling) = 10 psf

CRC Compression Strut Spacing = 12'-0" OC

Trib. = 4'-0"

Wp = 10 psf * 12'-0" * 4'-0" = 480 #

Seismic Loading

Lateral Force
Sds = 0.541
R = 2.5 (Ceilings ASCE 7-16 Table 13.5-1)
ap = 1
Ip = 1.00
Fp = 0.4 * 1 * 0.541 * Wp * (1+2) / (2.5 / 1.0) = 0.26*Wp

Vertical Force
Fp = 0.2 * 0.541 * Wp = 0.11*Wp

COMPRESSION LOAD ON STRUT. SEE NEXT PAGE FOR 5'-0" STRUT CHECK

Total Load on Compression Strut = 0.7 * 0.26 * 480 # = 88 # (ASD)

#10 Wood Screw Check

Allowable Screw Shear Capacity = 116 # (NDS 2018 TABLE 12M)

88 # (Demand) < 116 # (Capacity) OK

THEREFORE USE (2) #10 WOOD SCREWS @ 12'-0" OC TYP

#10 SMS Check

Allowable Screw Shear Capacity = 370 #

88 # (Demand) < 370 # (Capacity) OK

THEREFORE USE #10 SMS SCREWS @ 12'-0" OC TYP

SHAPE SIMIILAR TO 16GA
1.5" CRC STRUT

Project Name: New WorkSpace

Model: Wall Stud –1

Code: AISI S100-16

Date: 04/26/2024

Simpson Strong-Tie® CFS Designer™ 5.0.0.1

Section : 162T100-54 (50 ksi) Single Track (unpunched)

Maxo = 255.8 ft-lb **Va =** 1634.4 lb **I =** 0.11 in^4

Loads have not been modified for strength checks
Loads have been multiplied by 0.70 for deflection calculations

STRUT OKAY FOR 5'-0"
LENGTH, THEREFORE 2'-0"
MAX LENGTH CALLED OUT
ON SKETCH OKAY

Bridging Connectors - Design Method =AISI S100

Span	Axial KyLy, KtLt	Flexual, Distortional	Connector	Stress Ratio
Span	None, None	None, N/A	N/A	-

Web Crippling

Support	Load (lb)	Bearing (in)	Pa (lb)	M (ft-lbs)	Max Int.	Stiffener?
R2	0.0	--Shear Connection w/ clip--				NO
R1	0.0	--Stud/Track Design, Ref Connectors--				NO

Gravity Load

Type	Load (lb)
Uniform	0plf
P1y	88.00lb @ 5.00ft

	Code Check	Required	Allowed	Interaction	Notes
Span	Max. Axial, lbs	88.0(c)	810.9(c)	11%	KΦ=0.00 lb-in/in Max KL/r = 189
	Max. Shear, lbs	0.0	1634.4	0%	
	Max. Moment (MaFy, Ma-dist), ft-lbs	0.0	255.8	0%	
	Moment Stability, ft-lbs	0.0	118.6	0%	
	Shear/Moment	0.00	1.00	0%	Shear 0.0, Moment 0.0
	Axial/Moment	0.11	1.00	11%	Axial 88.0(c), Moment 0.0
	Deflection Span, in	0.000	--meets L/0--		

Support	Rx(lb)	Ry(lb)	Simpson Strong-Tie Connector	Connector Interaction	Anchor Interaction
R2	0.0	0.0	SCB45.5(2) & (2) #12-24 SST X or XL to A36 Steel	0.00 %	0.00 %
R1	0.0	88.0	162T125-33 (33) & (1) .157" SST PDPA/PDPAT-62KP to steel (3/16" to 1/2" thickness)	0.00 %	0.00 %

* Reference catalog for connector and anchor requirement notes as well as screw placement requirements

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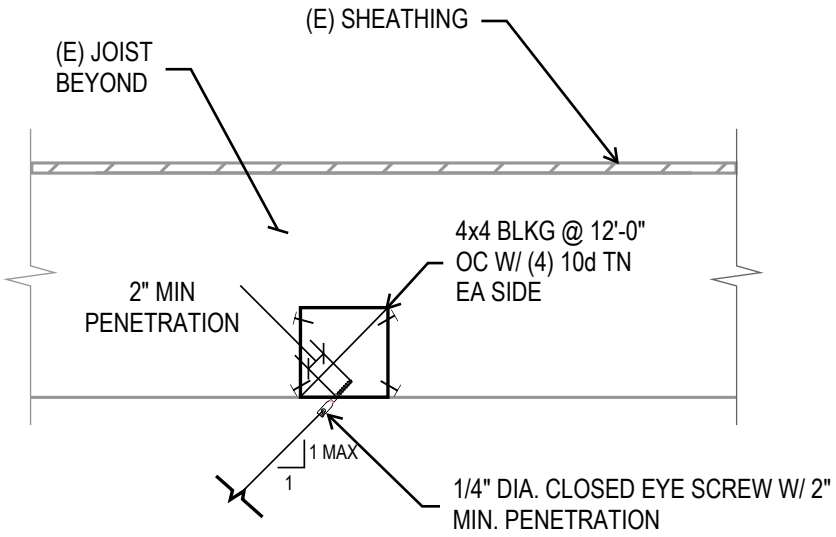
project	Lodi HS Breezeway	by	AL	sheet no. 5
location		date	04/25/24	
client		job no.	2200-217	



LOADING

DL (Plaster Ceiling) = 10 psf

CRC Compression Strut Spacing = 12'-0" OC

Trib. = 4'-0"

Wp = 10 psf * 12'-0" * 4'-0" = 480 #

Seismic Loading

Lateral Force
Sds = 0.541
R = 2.5 (Ceilings ASCE 7-16 Table 13.5-1)
ap = 1
Ip = 1.00
Fp = 0.4 * 1 * 0.541 * Wp * (1+2) / (2.5 / 1.0) = 0.26*Wp

Vertical Force
Fp = 0.2 * 0.541 * Wp = 0.11*Wp

Total Load on Compression Strut = 0.7 * 0.26 * 480 # = 88 # (ASD)

Total load on splay wire = 88# / sin(45) = 125#

#10 Wood screw check:
#10 wood screw withdrawal value = 1.6 * 135 #/in = 216 #/in OK for splay wire load

Blkg connection check:
10d TN shear capacity = 0.83 * 1.6 * 118# = 157 #
(4) TN lateral capcaity = 4 * 157 # = 628 # OK for splay wire load of 125#