

# General Installation Info for cero II and cero III

## Installation of sill with a leveler below

For a unit to be able to operate properly, **the sill has to be absolutely level**. The best way to achieve this is to install a secondary substrate (leveler) just below the sill with height adjustable legs to install it perfectly level.

For projects where the design pressure needed is **+/-30 psf or less**, a Purenit substrate with height adjustable legs is provided by NanaWall.

An alternative to Purenit for design pressures **over +/-30psf** is to use a wood leveler as per the specifications in the attached Appendix I for cero II and Appendix II for cero III. Appendix I and Appendix II also show fastener spacings for different substrates and different number of tracks as well as vertical detail drawings on suggested installation.

If a Purenit leveler is used instead of a wood leveler for project design pressures of **less than +/- 30 psf**, please follow the same instructions for spacings and other details as shown in Appendix I and Appendix II. The only important difference is that the fasteners from the sill to the Purenit **should penetrate through** the Purenit into the substrate below with minimum embedment as noted for different substrates in Appendix I and Appendix II. Please also note that the maximum gap between the bottom of the Purenit or wood leveler and the top of the substrate should be 3/4" (19mm).

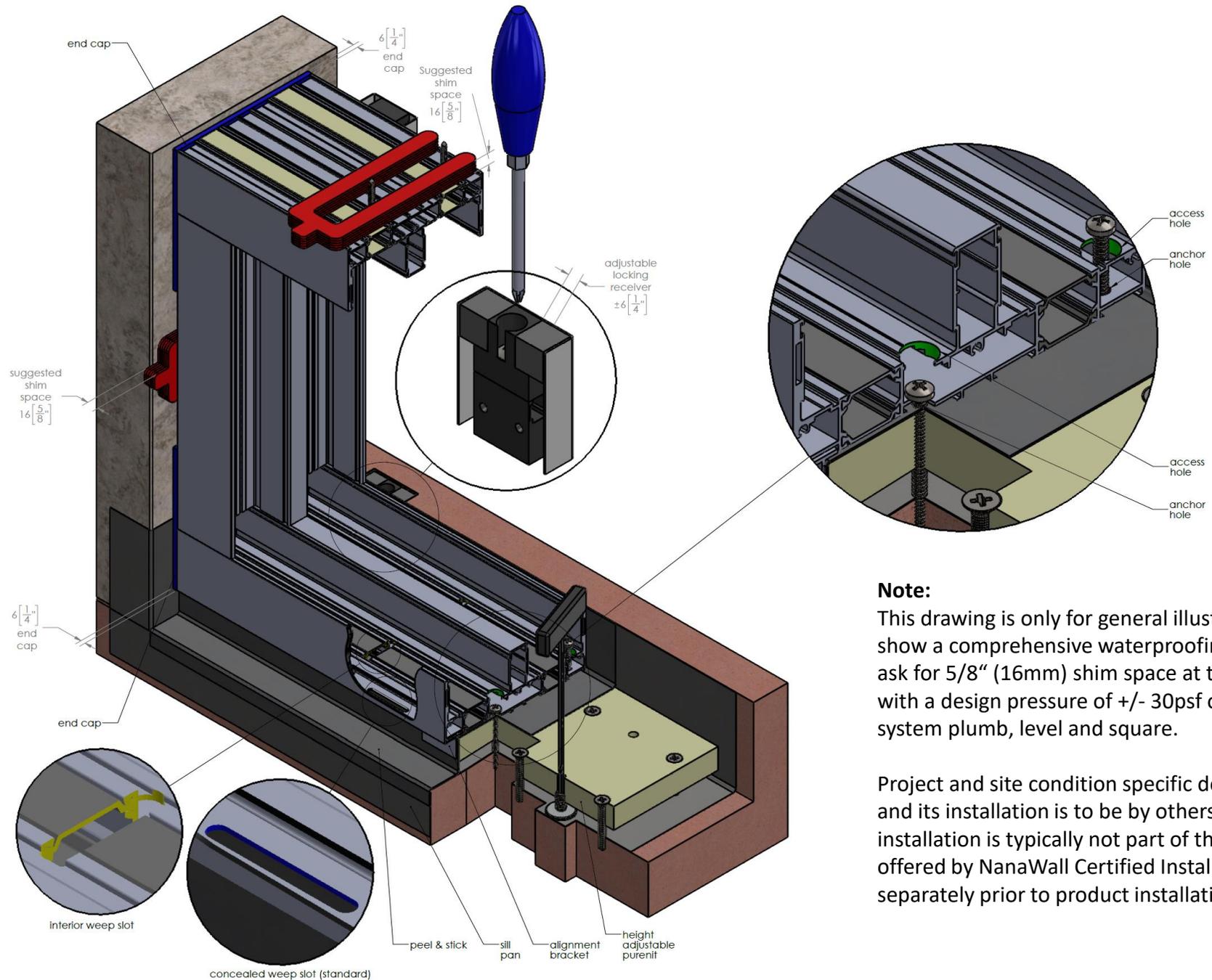
## Installation of Head Track and Side Jamb

Install the appropriate fasteners through the pre-drilled holes provided from the factory. Add holes in the field as needed such that the spacings between holes is not more than 23-1/2" (600 mm).

For installation in projects with design pressures **more than +/- 30 psf**, the maximum shim space of the unit with the surrounding substrates should be 3/8" (10mm). As local conditions and requirements vary, a local licensed structural engineer should be consulted to verify specific anchoring and spacing requirements.

## General Notes

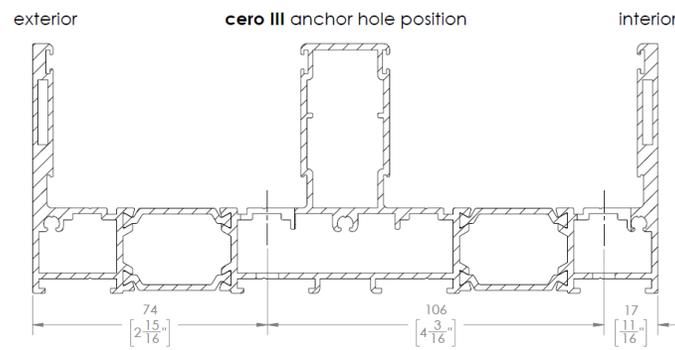
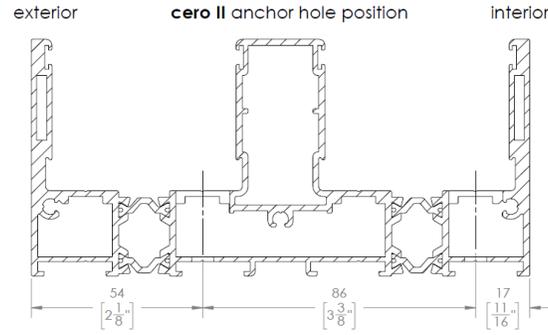
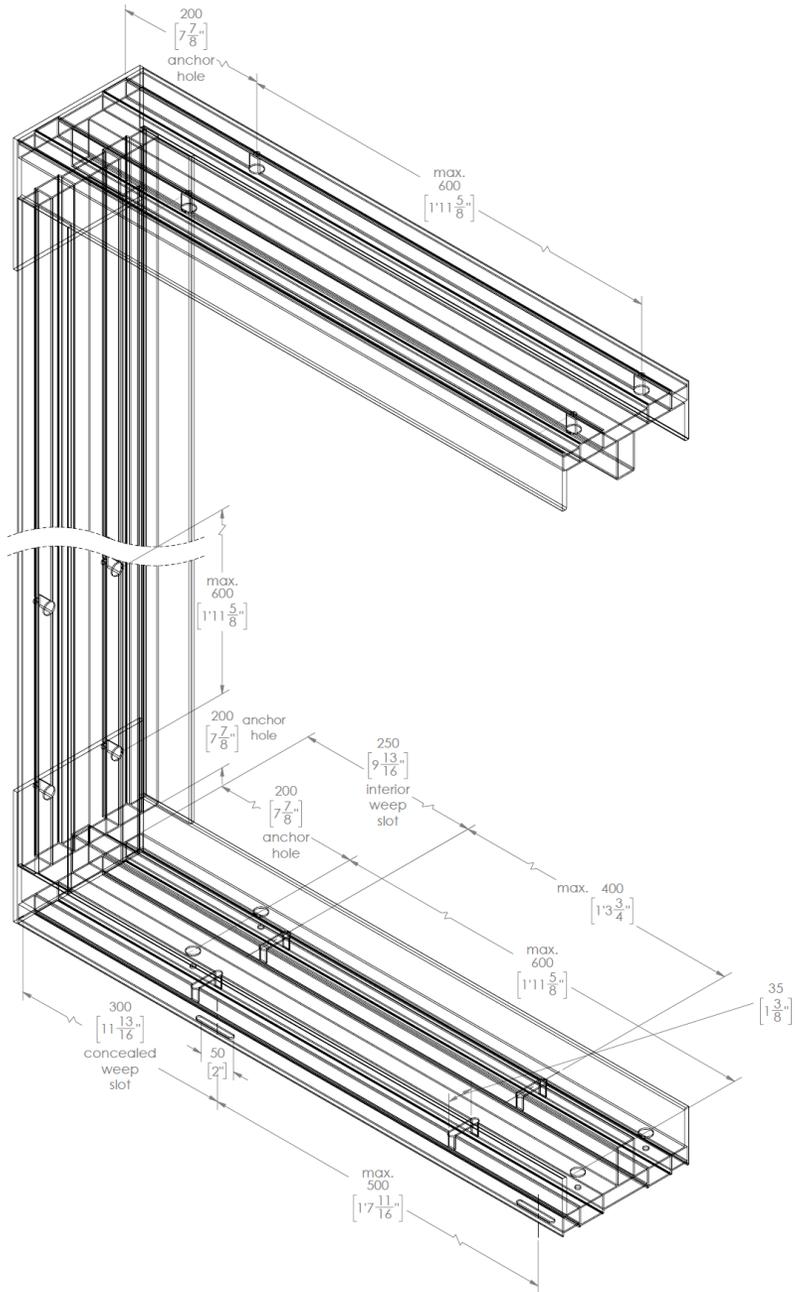
1. NanaWall will assume no responsibility for errors resulting from the use of these drawings by other trades. NanaWall will assume no responsibility for dimensional errors or changes resulting from actual field conditions that vary from these drawings.
2. All framing systems shall be fabricated and installed per the NanaWall instructions.
3. Perimeter substrate must be capable of withstanding reaction forces imposed by design loads.
4. Laws and building and safety codes governing the design and use of glazing entrance, window and curtain wall products vary widely. NanaWall does not control the selection of product configurations, operating hardware or glazing material and assumes no responsibility for same.
5. Drawings only determine anchoring and spacing requirements for sill condition.



**Note:**

This drawing is only for general illustrative purposes and is not meant to show a comprehensive waterproofing and drainage solution. Typically we ask for 5/8" (16mm) shim space at the head and each jamb for projects with a design pressure of +/- 30psf or less. This allows for installing the system plumb, level and square.

Project and site condition specific detail waterproofing and drainage design and its installation is to be by others. Waterproofing and drainage installation is typically not part of the standard product installation services offered by NanaWall Certified Installers and have to be agreed on separately prior to product installation.



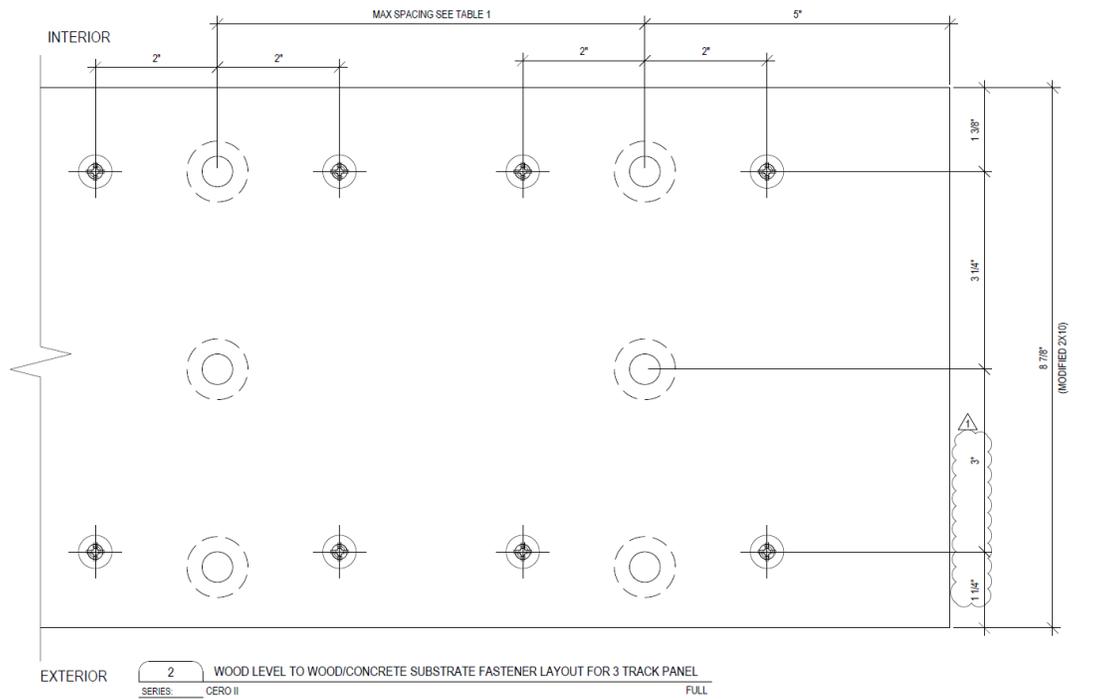
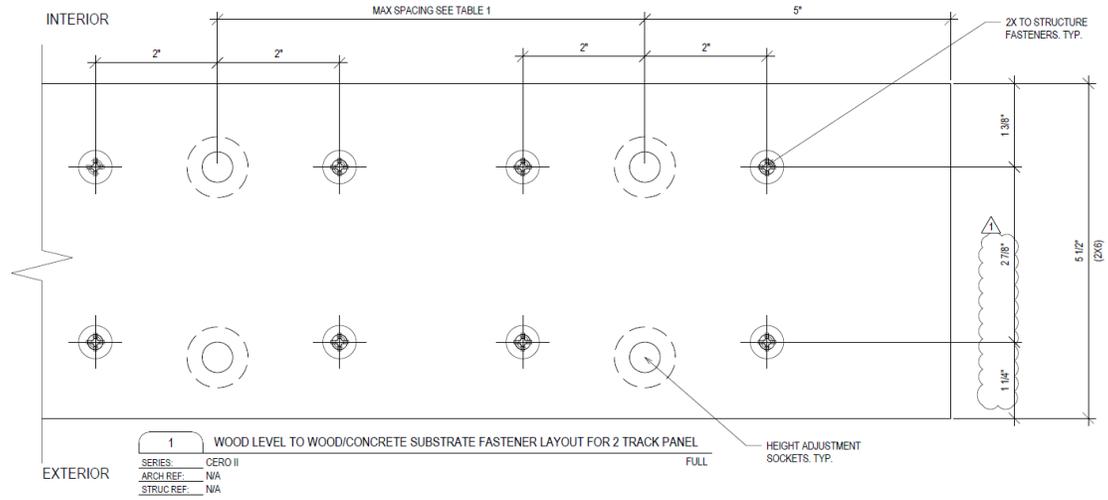
**Note:**

Each zero system is custom and anchor hole and weep slot patterns can vary. This drawing is only for general illustrative purposes to show the maximum distance between the anchor hole and the weep slot pattern of the pre-drilled holes and slots coming from the factory.

As local conditions and requirements vary, a local licensed structural engineer should be consulted to verify specific anchoring and spacing requirements.

## **Appendix I: cero II**

# PLAN VIEWS FOR CERO II SYSTEM



## GENERAL NOTES

- LTS DRAFTING & ENGINEERING (LTS) WILL ASSUME NO RESPONSIBILITY FOR ERRORS RESULTING FROM THE USE OF THESE DRAWINGS BY OTHER TRADES. LTS DRAFTING & ENGINEERING WILL ASSUME NO RESPONSIBILITY FOR DIMENSIONAL ERRORS OR CHANGES RESULTING FROM ACTUAL FIELD CONDITIONS THAT VARY FROM THESE DRAWINGS.
- ALL FRAMING SYSTEMS SHALL BE FABRICATED & INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
- PERIMETER SUBSTRATE MUST BE CAPABLE OF WITHSTANDING REACTION FORCES IMPOSED BY DESIGN LOADS.
- LAWS AND BUILDING AND SAFETY CODES GOVERNING THE DESIGN AND USE OF GLAZING ENTRANCE, WINDOW AND CURTAIN WALL PRODUCTS VARY WIDELY. LTS DOES NOT CONTROL THE SELECTION OF PRODUCT CONFIGURATIONS, OPERATING HARDWARE OR GLAZING MATERIALS AND ASSUMES NO RESPONSIBILITY FOR SAME.
- DRAWINGS ONLY DETERMINE THE FASTENER REQUIREMENTS FOR SILL CONDITION.

## WOOD LEVELER SPECIFICATIONS:

- ALL DIMENSIONAL LUMBER USED FOR IN THESE SHOP DRAWINGS SHALL CONFORM TO ANSI, AWC AND NDS.
- ALL DIMENSIONAL LUMBER SHALL BE PRESSURE TREATED ACCORDING TO AWPA STANDARD U1 TO THE REQUIREMENTS OF USE CATEGORY 2 (UC2).
- ALL DIMENSIONAL LUMBER IS ASSUMED TO BE SPRUCE-PINE-FIR (SPECIFIC GRAVITY = 0.42 MIN OR DENSER)

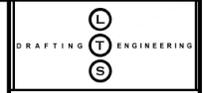
TABLE 1 (2&3 TRACK SYSTEM)

WIND PRESSURE	MAX SPACING FOR SILL TRACK TO WOOD LEVELER	MAX SPACING FOR WOOD LEVELER TO WOOD STRUCTURE	MAX SPACING FOR WOOD LEVELER TO CONCRETE STRUCTURE
0 - 30 (PSF)	17 (IN)	30 (IN)	36 (IN)
31 - 45 (PSF)	11 (IN)	20 (IN)	25 (IN)
46 - 60 (PSF)	8 (IN)	15 (IN)	19 (IN)
61 - 75 (PSF)	7 (IN)	12 (IN)	15 (IN)
76 - 90 (PSF)	6 (IN)	10 (IN)	13 (IN)

TABLE 2 (4&5 TRACK SYSTEM)

WIND PRESSURE	MAX SPACING FOR SILL TRACK TO WOOD LEVELER	MAX SPACING FOR WOOD LEVELER TO WOOD STRUCTURE	MAX SPACING FOR WOOD LEVELER TO CONCRETE STRUCTURE
0 - 30 (PSF)	34 (IN)	36 (IN)	36 (IN)
31 - 45 (PSF)	23 (IN)	36 (IN)	36 (IN)
46 - 60 (PSF)	17 (IN)	30 (IN)	36 (IN)
61 - 75 (PSF)	14 (IN)	24 (IN)	31 (IN)
76 - 90 (PSF)	11 (IN)	20 (IN)	25 (IN)

FIELD VERIFY ALL DIMENSIONS



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REVISIONS	PER CLIENT COMMENTS
1	3.25.22

ARCHITECT:

GLAZING SUBCONTRACTOR:

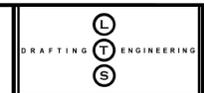
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LTS PM:  
LTS ENGINEER: NB  
DATE: 3.25.22

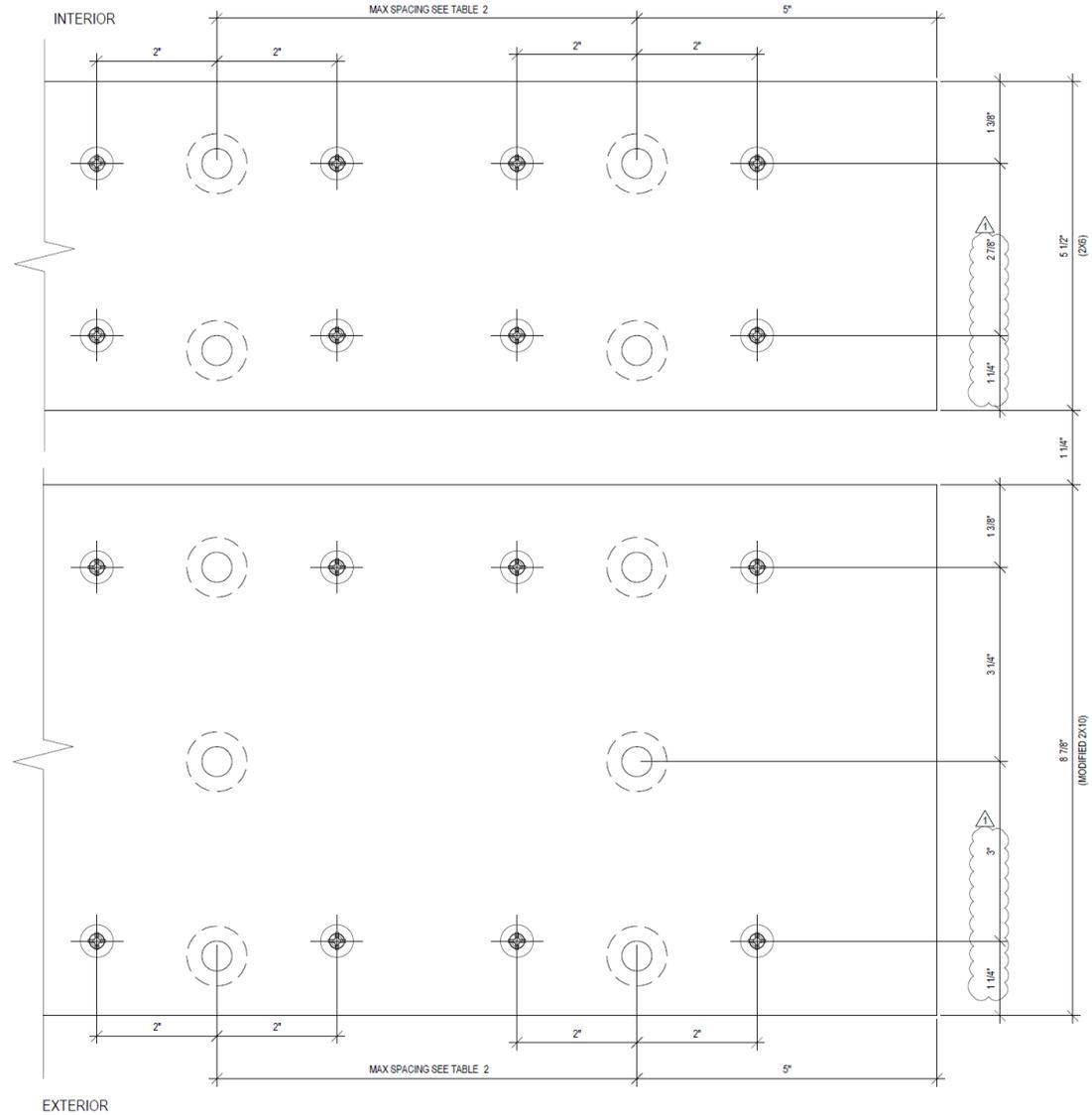
**1101**  
NANAWALL  
FASTENER LAYOUT



# PLAN VIEWS FOR CERO II SYSTEM



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ARCHITECT:

GLAZING SUBCONTRACTOR:

SHOP DRAWINGS FOR:

ARCHITECT:

GLAZING SUBCONTRACTOR:

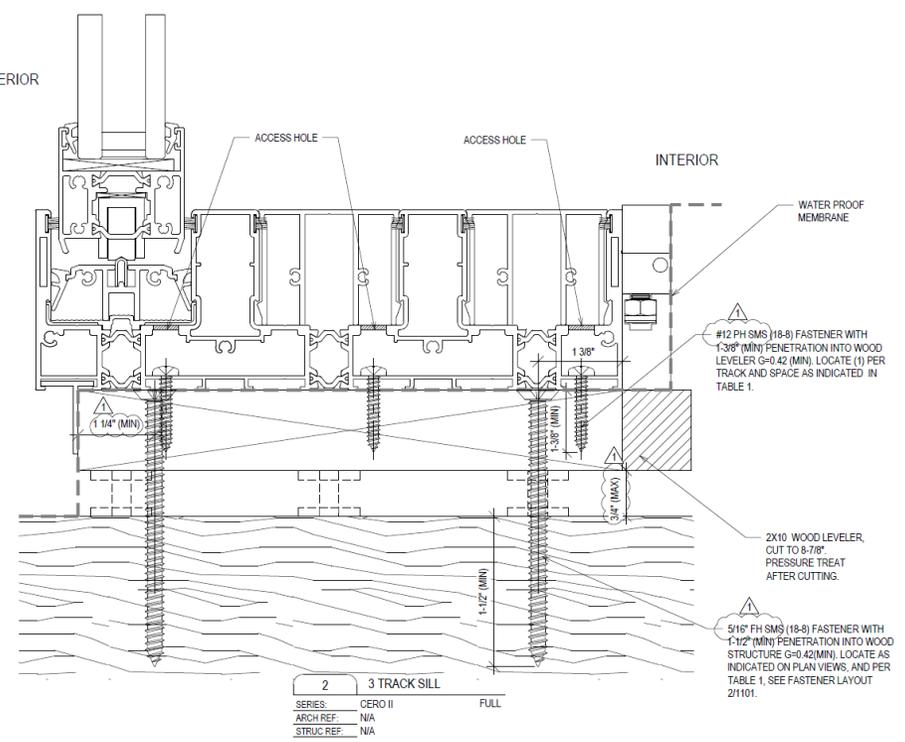
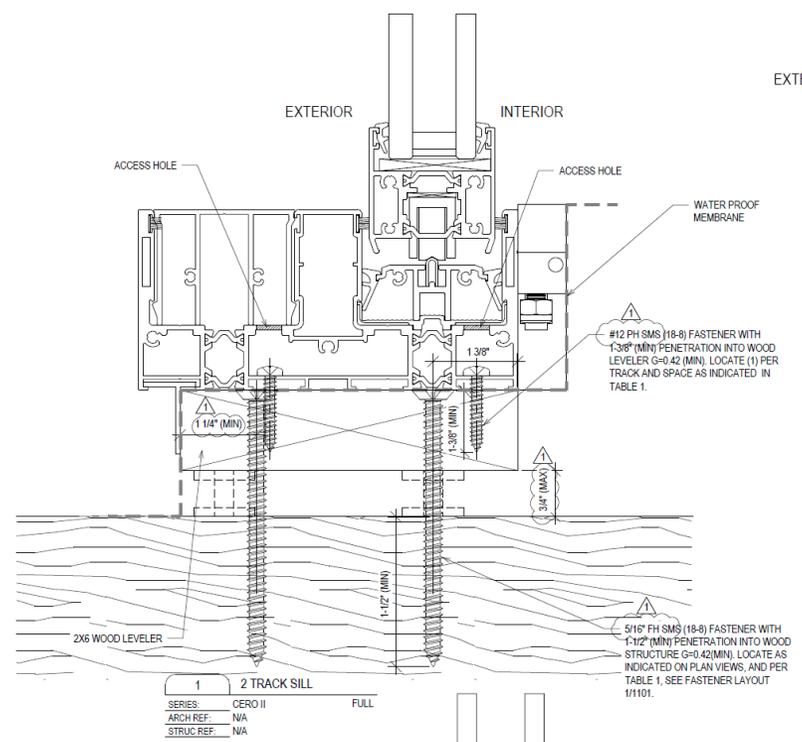
SHOP DRAWINGS FOR:

LTS PROJECT	19-0147
SCALE	FULL
LTS PM	
LTS ENGINEER	NB
DATE	3.25.22

1 WOOD LEVEL TO WOOD/CONCRETE SUBSTRATE FASTENER LAYOUT FOR 5 TRACK PANEL  
 SERIES: CERO II FULL  
 ARCH REF: N/A  
 STRUC REF: N/A

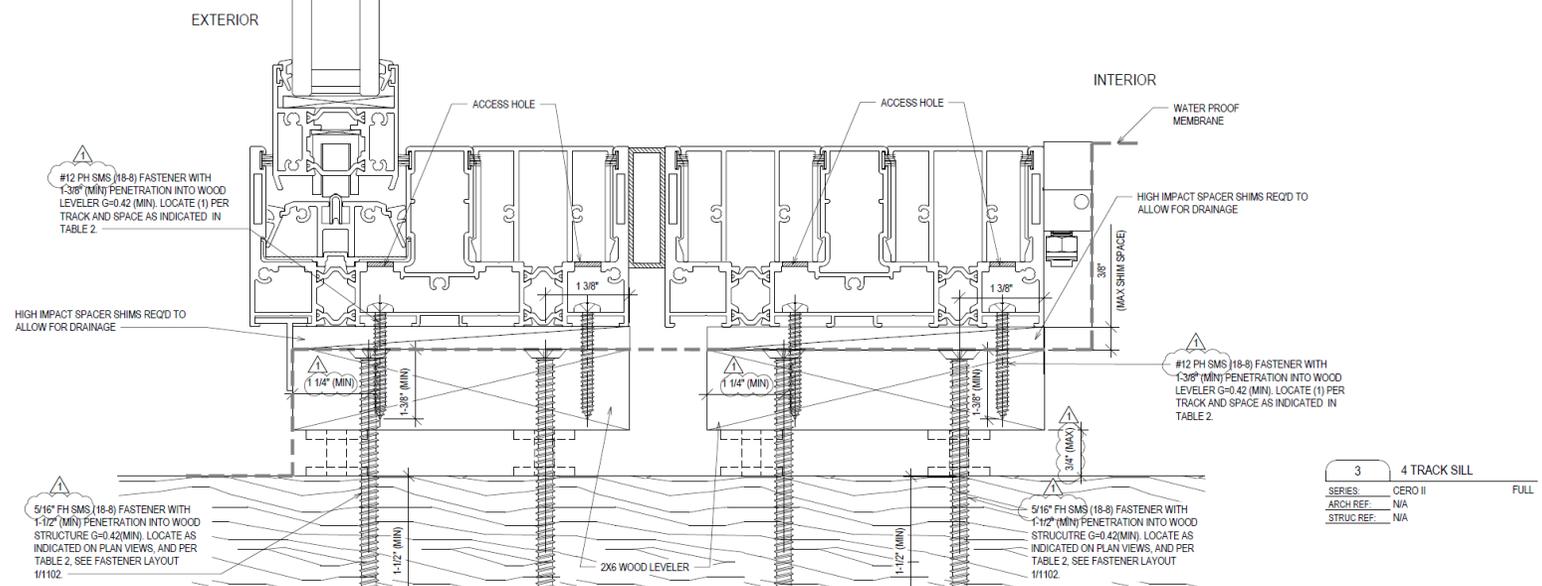
FIELD VERIFY ALL DIMENSIONS

**1103**  
 NANAWALL  
 FASTENER LAYOUT



1	2 TRACK SILL	FULL
SERIES: CERO II		
ARCH REF: N/A		
STRUC REF: N/A		

2	3 TRACK SILL	FULL
SERIES: CERO II		
ARCH REF: N/A		
STRUC REF: N/A		



3	4 TRACK SILL	FULL
SERIES: CERO II		
ARCH REF: N/A		
STRUC REF: N/A		

FIELD VERIFY ALL DIMENSIONS

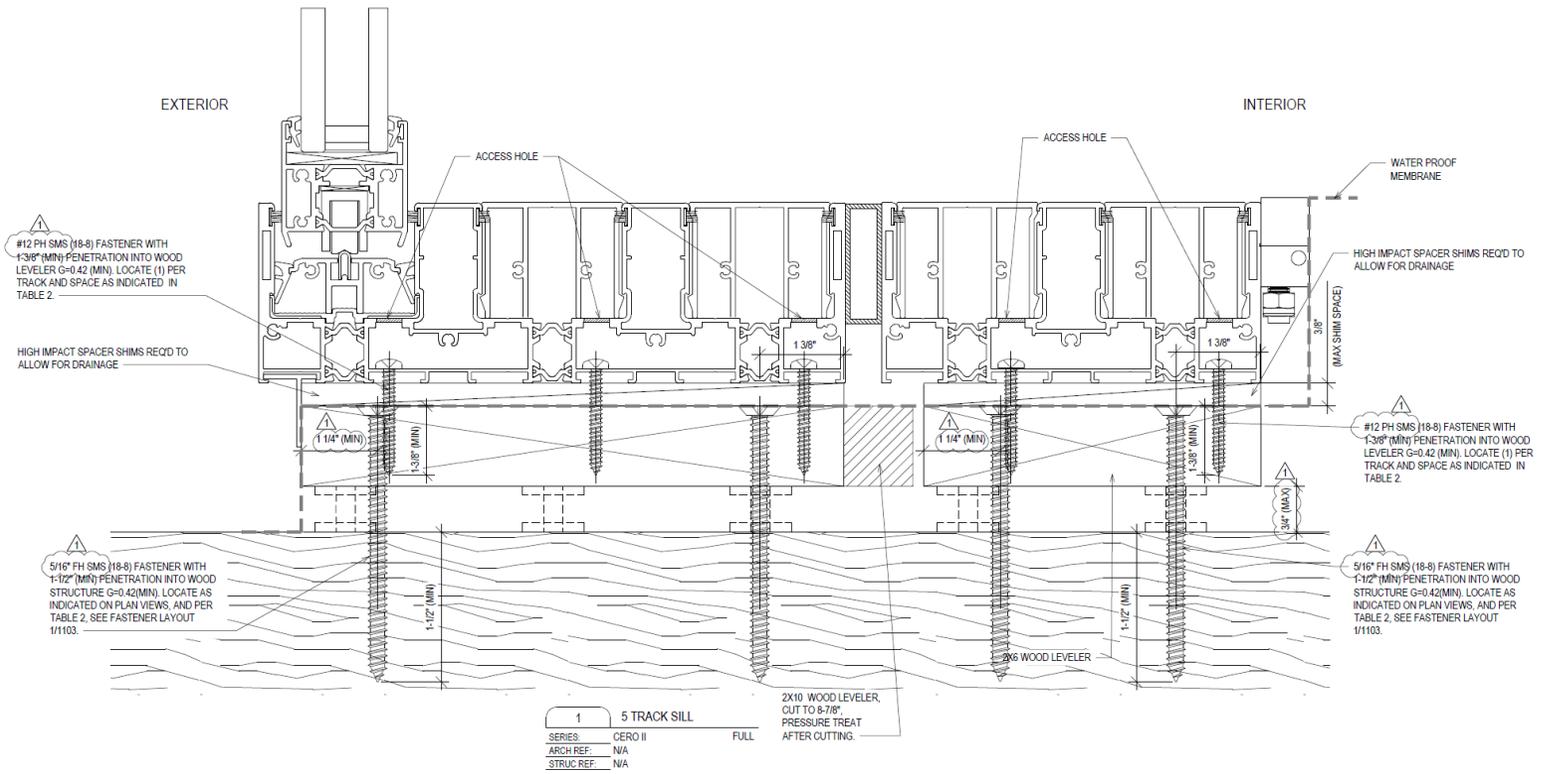
REVISIONS	PER CLIENT COMMENTS
1	3.25.22

ARCHITECT:
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GLAZING SUBCONTRACTOR:
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SHOP DRAWINGS FOR:
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LTS PROJECT	19-0147
SCALE	FULL
LTS PM	
LTS ENGINEER	NB
DATE	3.25.22



**1 5 TRACK SILL**  
 SERIES: CERO II FULL  
 ARCH REF: N/A  
 STRUC REF: N/A

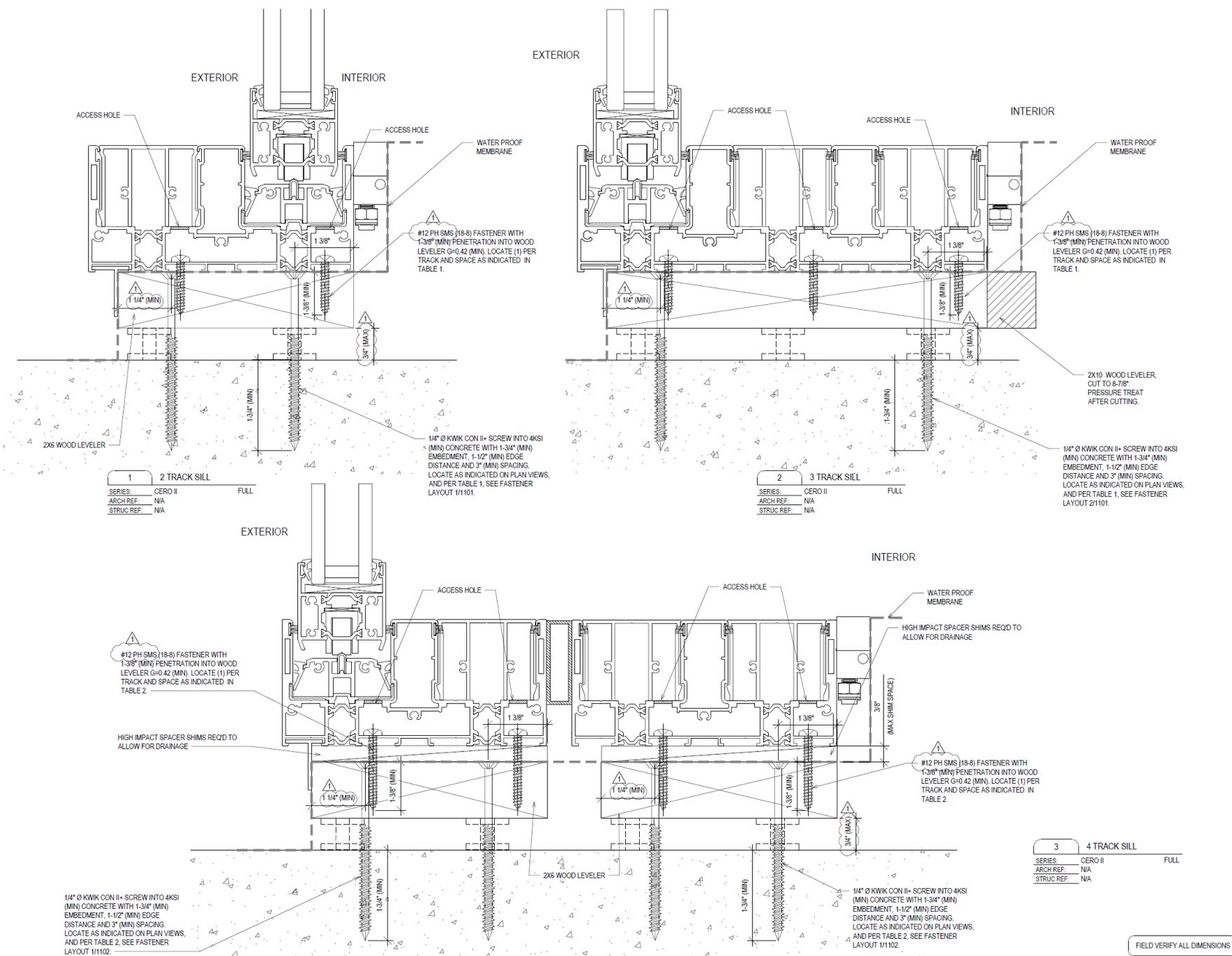
REVISIONS	PER CLIENT COMMENTS
1	3.25.22

ARCHITECT:

GLAZING SUBCONTRACTOR:

SHOP DRAWINGS FOR:

LTS PROJECT	19-0147
SCALE	FULL
LTS PM	
LTS ENGINEER	NB
DATE	3.25.22



1	2 TRACK SILL	FULL
SERIES:	CERO II	
ARCH REF:	N/A	
STRUC REF:	N/A	

2	3 TRACK SILL	FULL
SERIES:	CERO II	
ARCH REF:	N/A	
STRUC REF:	N/A	

3	4 TRACK SILL	FULL
SERIES:	CERO II	
ARCH REF:	N/A	
STRUC REF:	N/A	

REVISIONS	PER CLIENT COMMENTS
1	3.25.22

ARCHITECT:

GLAZING SUBCONTRACTOR:

SHOP DRAWINGS FOR:

LTS PROJECT	19-0147
SCALE	FULL
LTS PM	
LTS ENGINEER	NB
DATE	3.25.22

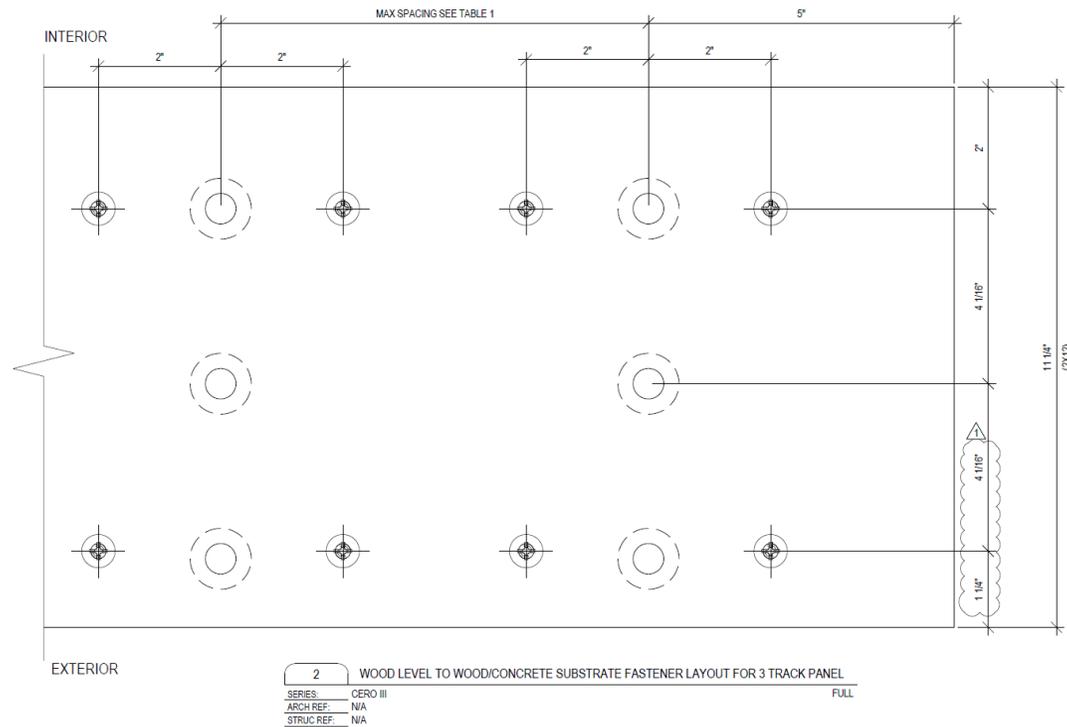
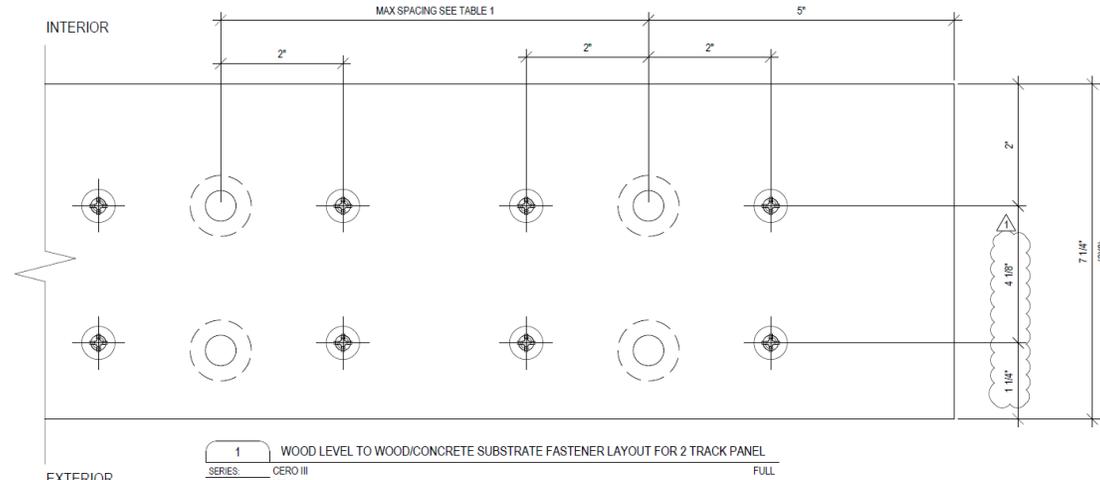
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**1106**  
 NANAWALL  
 FASTENER LAYOUT



## **Appendix II: cero III**

# PLAN VIEWS FOR CERO III SYSTEM



## GENERAL NOTES

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76 - 90 (PSF)	6 (IN)	10 (IN)	13 (IN)

TABLE 2 (4&5 TRACK SYSTEM)

WIND PRESSURE	MAX SPACING FOR SILL TRACK TO WOOD LEVELER	MAX SPACING FOR WOOD LEVELER TO WOOD STRUCTURE	MAX SPACING FOR WOOD LEVELER TO CONCRETE STRUCTURE
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61 - 75 (PSF)	14 (IN)	24 (IN)	31 (IN)
76 - 90 (PSF)	11 (IN)	20 (IN)	25 (IN)

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SHOP DRAWINGS FOR:

LTS PROJECT	19-0147
SCALE	FULL
LTS PM	
LTS ENGINEER	NB
DATE	3.25.22

**1201**  
 NANAWALL  
 DETAILS





REVISIONS	DATE	REVISION COMMENTS
1	3/25/22	

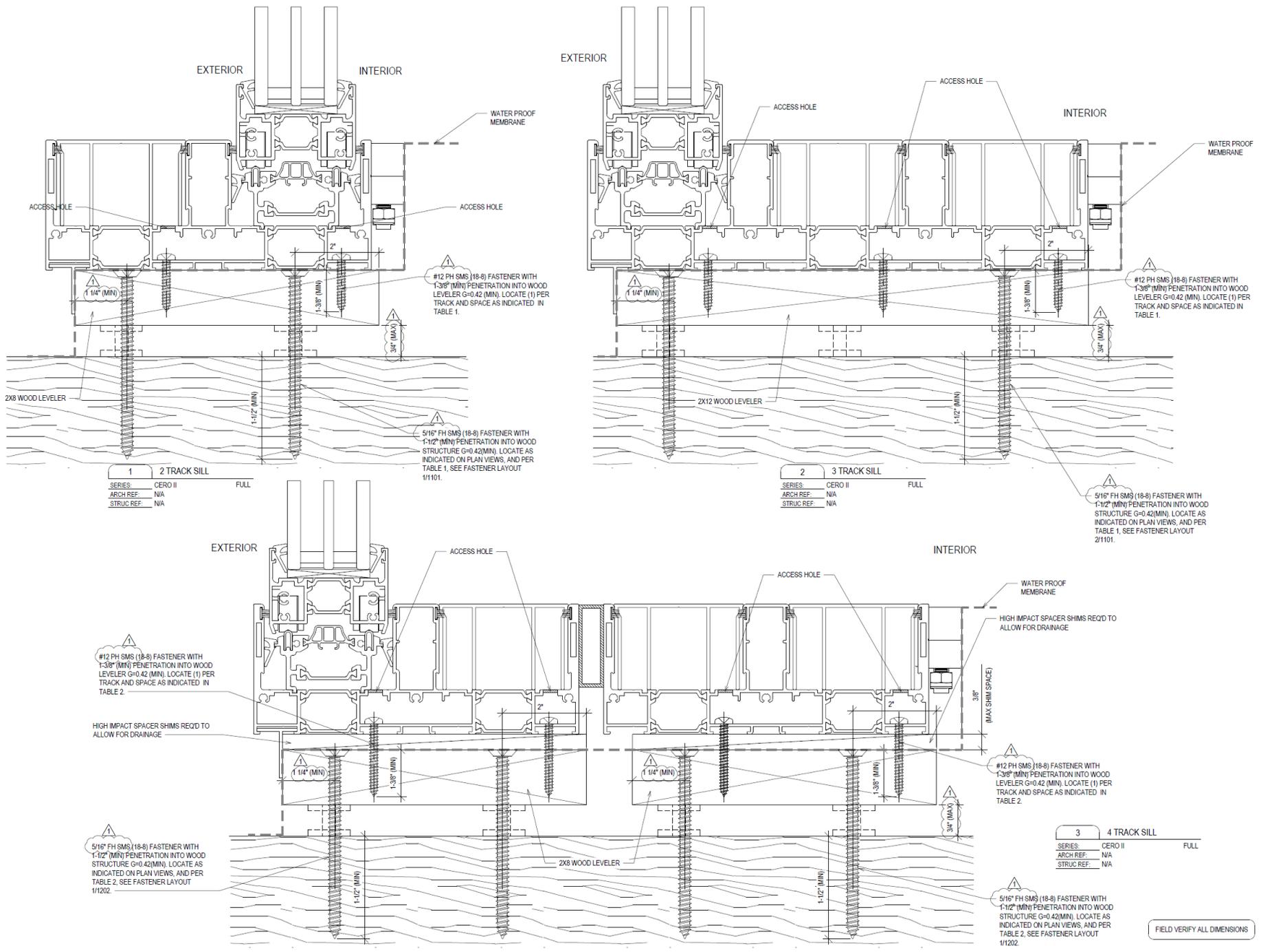
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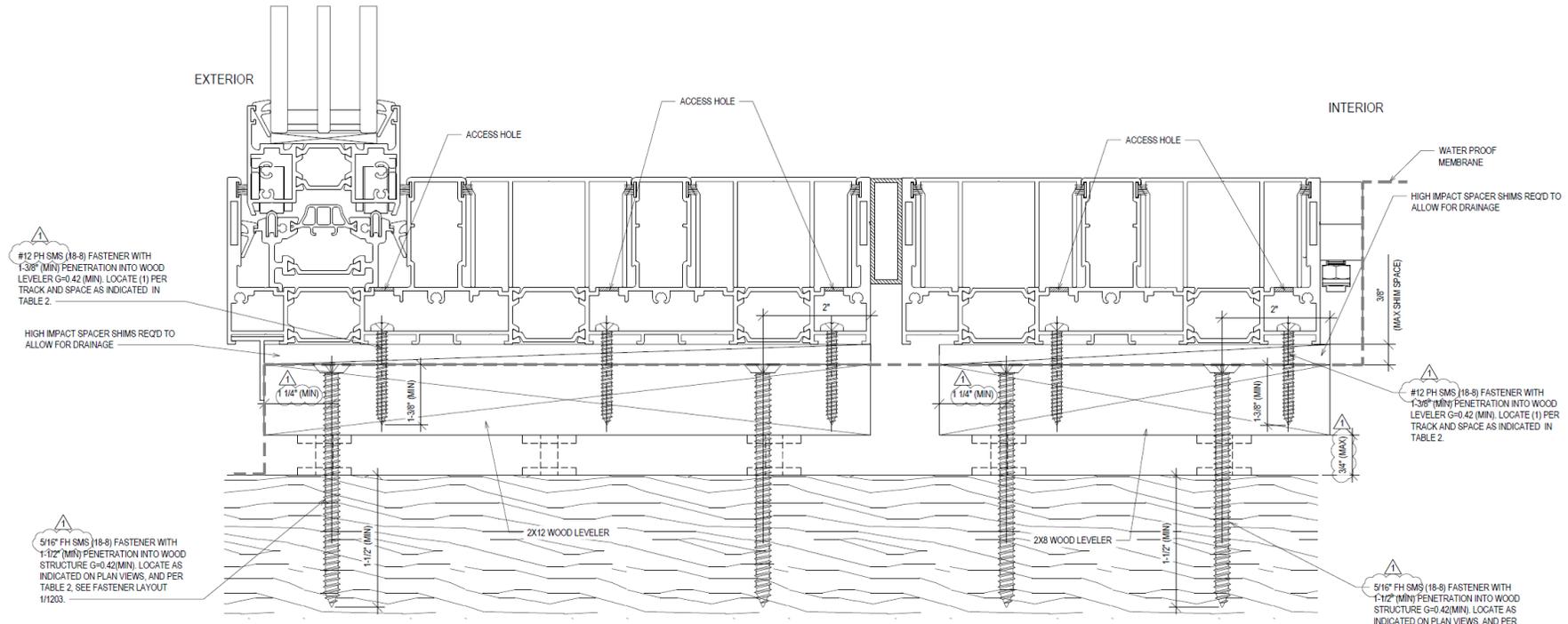
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SHOP DRAWINGS FOR: \_\_\_\_\_

LTS PROJECT	19-0147
SCALE	FULL
LTS PM	
LTS ENGINEER	NB
DATE	3.25.22



FIELD VERIFY ALL DIMENSIONS



#12 PH SMS (18-8) FASTENER WITH 1-3/8" (MIN) PENETRATION INTO WOOD LEVELER G=0.42 (MIN). LOCATE (1) PER TRACK AND SPACE AS INDICATED IN TABLE 2.

HIGH IMPACT SPACER SHIMS REQ'D TO ALLOW FOR DRAINAGE

5/16" FH SMS (18-8) FASTENER WITH 1-1/2" (MIN) PENETRATION INTO WOOD STRUCTURE G=0.42(MIN). LOCATE AS INDICATED ON PLAN VIEWS, AND PER TABLE 2. SEE FASTENER LAYOUT 1/1203.

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1	5 TRACK SILL	
SERIES:	CERO II	FULL
ARCH REF:	N/A	
STRUC REF:	N/A	

REVISIONS	DATE	DESCRIPTION
1	3.25.22	PER CLIENT COMMENTS

ARCHITECT:

GLAZING SUBCONTRACTOR:

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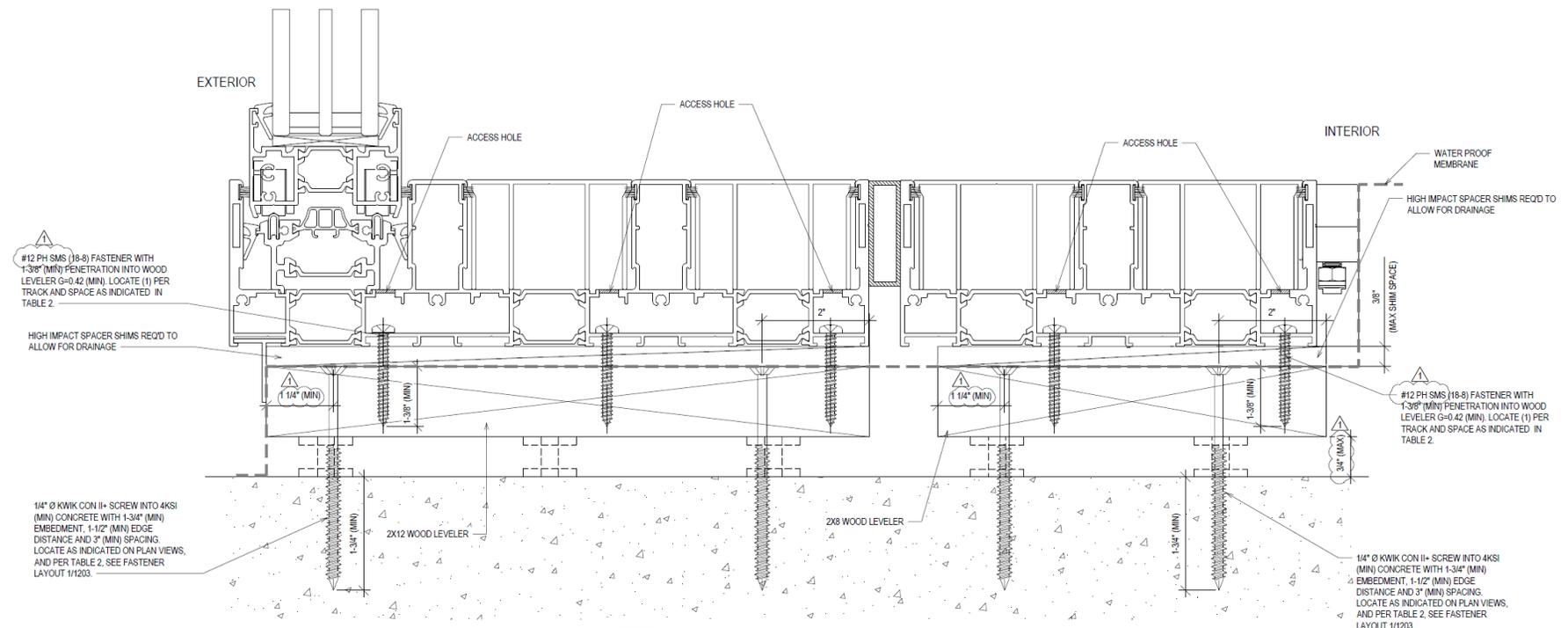
LTS PROJECT	19-0147
SCALE	FULL
LTS PM	
LTS ENGINEER	NB
DATE	3.25.22

**1205**  
 NANAWALL  
 DETAILS

FIELD VERIFY ALL DIMENSIONS



REVISIONS	NO.	DATE	COMMENTS
1	1	3.25.22	



**1**    **5 TRACK SILL**    **FULL**  
 SERIES: CERO II  
 ARCH REF: N/A  
 STRUC REF: N/A

ARCHITECT:

GLAZING SUBCONTRACTOR:

SHOP DRAWINGS FOR:

LTS PROJECT	15-0147
SCALE	FULL
LTS PM	
LTS ENGINEER	NB
DATE	3.25.22

FIELD VERIFY ALL DIMENSIONS

1207

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DETAILS