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NO	DATE	REASON FOR ISSUE	CHK
02	08/21/23	Bulletin_01	LB
01	11/27/19	Plan Check Submission	LB

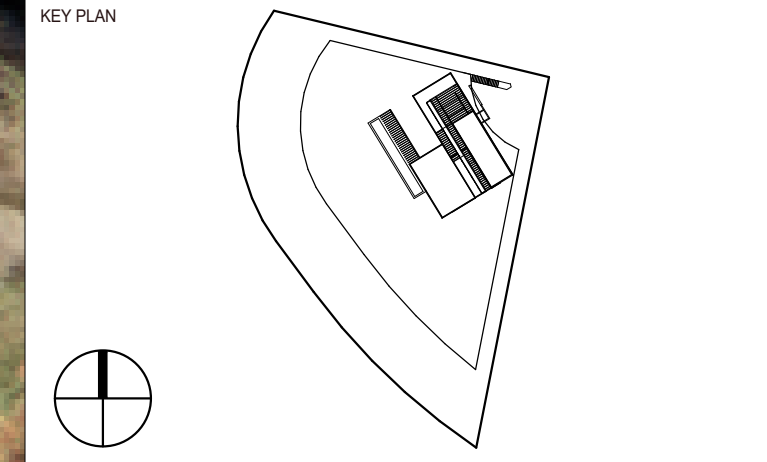
PERMIT SET

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PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Cover

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-000	1" = 1'-0"

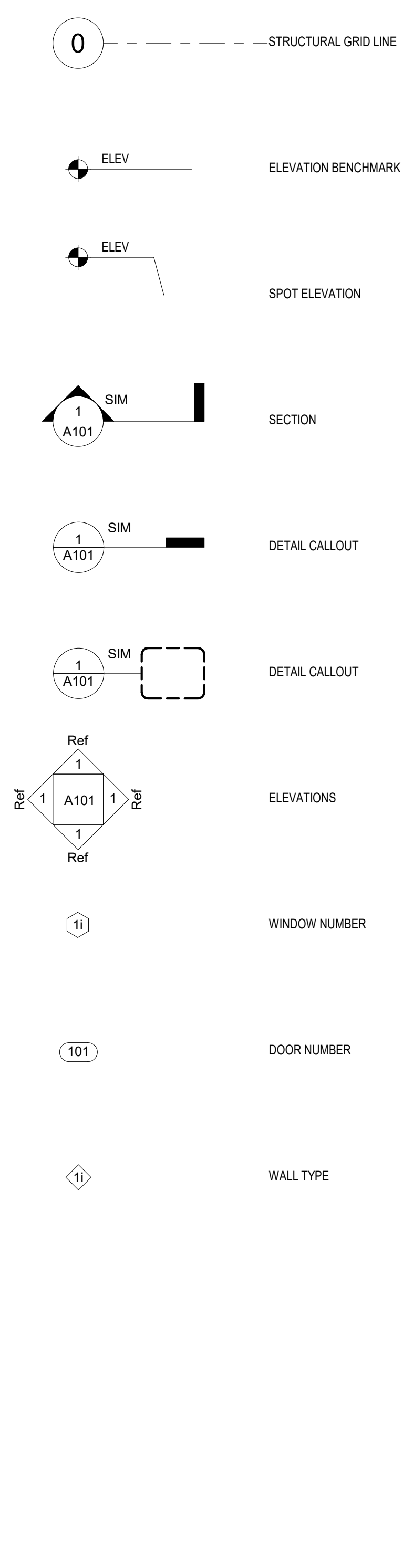
GENERAL NOTES

- THESE GENERAL NOTES SHALL APPLY TO ALL WORK AND ALL DRAWINGS AND SPECIFICATIONS IN THIS SET AND SHALL EXTEND TO ANY CHANGES OR ADDITIONS AGREED TO DURING THE COURSE OF WORK
- ALL WORK PERFORMED SHALL CONFORM TO THE FOLLOWING CODES AND ASSOCIATED COUNTY OF SAN DIEGO AMMENDMENTS WHETHER OR NOT INDICATED ON THE DRAWINGS:
 - 2016 California Residential Code (CRC) and/or 2016 California Building Code (CBC) as applicable
 - 2016 California Green Building Standards Code (CalGreen)
 - 2016 California Electrical Code (CEC)
 - 2016 California Mechanical Code (CMC)
 - 2016 California Plumbing Code (CPC)
 - 2016 California Fire Code (CFC)
 - 2016 California Building Energy Efficiency Standards (CBEES)
- CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL INSPECT AND FAMILIARIZE THEMSELVES WITH THE SITE AND THE PROPOSED PROJECT AND VERIFY ALL INFORMATION AND DIMENSIONS PRIOR TO COMMENCING WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCY.
- ALL DIMENSIONS TO GRIDLINES ARE TO CENTERLINE OF STRUCTURAL ELEMENT U.N.O., ALL OTHER DIMENSIONS ARE TO FINISH FACE U.N.O.
- DO NOT USE SCALED DIMENSIONS, USE WRITTEN DIMENSIONS OR GRADES. WHERE NO DIMENSION OR GRADE IS PROVIDED, VERIFY WITH ARCHITECT FOR CLARIFICATION BEFORE COMMENCEMENT OF WORK.
- NOT ALL CONDITIONS MAY BE SHOWN IN DETAILS. CONTRACTOR SHALL PROVIDE INSTALLATIONS WHICH ARE IN CONFORMANCE WITH TYPICAL DETAILS FOR ATYPICAL CONDITIONS. TYPICAL DETAILS SHALL BE CONSTRUED TO PERTAIN TO ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- ANY ERRORS, OMISSIONS OR DISCREPANCIES IN PLANS, SPECIFICATIONS OR JOB CONDITIONS, AND ANY CONFLICTS IN THE ABOVE WITH THE GOVERNING BUILDING CODE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- BEFORE STARTING EACH PORTION OF THE WORK, THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE VARIOUS DRAWINGS, SPECIFICATIONS AND PRODUCT DATA FOR THAT PORTION OF THE WORK. CONTRACTOR SHALL CHECK DRAWING DOCUMENTS AND DIMENSIONS AND VERIFY DIMENSIONS IN FIELD TO CONFIRM THAT THE WORK IS BUILDABLE AS SHOWN. COORDINATE ALL ASPECTS OF THE WORK WITH ALL RELATED TRADES. NOTIFY THE ARCHITECT IN WRITING PRIOR TO BEGINNING WORK OF ANY DISCREPANCIES, CONFLICTS OR CHANGES REQUIRED.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION OF PORTIONS OF WORK ALREADY PERFORMED TO DETERMINE THAT SUCH PORTIONS ARE IN PROPER CONDITION TO RECEIVE SUBSEQUENT WORK.
- SPECIAL INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR PER CBC SECTIONS 1704 AND 1705. THE SPECIAL INSPECTOR SHALL BE RETAINED BY THE OWNER AND NOT BY THE CONTRACTOR.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOB SITE SAFETY PRECAUTIONS AND PROGRAMS. IMPLEMENT, ERECT AND MAINTAIN REASONABLE AND REQUIRED SAFEGUARDS FOR SAFETY AND PROTECTION.
- ALL WORK TO BE PERFORMED TO CODE BY A LICENSED CONTRACTOR PERFORMING THE WORK IN THEIR RESPECTIVE TRADE ONLY. REFER TO SPECIFICATIONS FOR ADDITIONAL QUALIFICATIONS. THE CONTRACTOR SHALL NOT PERMIT EMPLOYMENT OF UNFIT PERSONS OR PERSONS NOT PROPERLY SKILLED IN TASKS ASSIGNED TO THEM.
- ALL WORKMANSHIP SHALL BE PERFORMED NEATLY IN ACCORDANCE WITH ACCEPTED BEST PRACTICES OF THE TRADE, INDUSTRY STANDARDS OF CARE AND STANDARD OF THE INDUSTRY INVOLVED AND SHALL BE STRAIGHT, PLUMB AND/OR TRUE TO LINE.
- GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL NEATLY PATCH, REPAIR AND / OR REPLACE ALL AREAS OR ITEMS DAMAGED DURING CONSTRUCTION.
- MATERIALS PRODUCTS OR EQUIPMENT SHALL BE NEW, UNUSED AND OF THE HIGHEST QUALITY UNLESS OTHERWISE NOTED. REPLACE ALL DEFECTIVE MATERIALS.
- MATERIALS, PRODUCTS OR EQUIPMENT SHALL BE STORED IN A MANNER THAT PREVENTS DAMAGE, THEFT, DISTORTION AND CONTACT WITH MOISTURE OR EXTERIOR EXPOSURE. FOR FINISH MATERIALS, PREVENT SCRAPING, DINGS, NICKS, DENTS, CHIPS, WHERE DAMAGE CAN NOT BE RESTORED TO ORIGINAL FINISH CONDITION, CONTRACTOR TO REPLACE AT NO COST TO THE OWNER. HE ARCHITECT SHALL HAVE FINAL SAY ON THE QUALITY OF THE REPAIR. IF THE REPAIR DOES NOT MEET THE QUALITY OF THE ADJACENT SURFACE, THE COMPONENT SHALL BE REPLACED AT NO COST TO THE OWNER WITH A NEW COMPONENT OF THE SAME QUALITY AND SPECIFICATION TO MATCH.
- MANUFACTURED MATERIALS, PRODUCTS AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS, UNLESS A HIGHER QUALITY / METHOD OF INSTALLATION HAS BEEN INDICATED WHICH DOES NOT AFFECT PRODUCT WARRANTY, IL LISTING, OR PERFORMANCE.
- THERE SHALL BE NO SUBSTITUTION OF MATERIALS WHERE A MANUFACTURER IS SPECIFIED, UNLESS APPROVED BY THE ARCHITECT. WHERE THE TERM "OR EQUAL", OR "OR ARCHITECT APPROVED EQUAL", THE ARCHITECT AND ITS CONSULTANTS SHALL DETERMINE IF THE SUBMITTED MATERIAL / PRODUCT IS "EQUAL". CONTRACTOR TO SUBMIT INFORMATION FOR BOTH THE SPECIFIED PRODUCT AND PROPOSED SUBSTITUTION WITH A LINE BY LINE COMPARISON IF REQUIRED BY THE ARCHITECT
- CONTRACTOR TO REVIEW AND COORDINATE ALL SUBSTRATE REQUIREMENTS OF FINISH COMPONENTS AND CONFIRM COMPATIBILITY PRIOR TO FINISH INSTALL. ALL SUBSTRATES TO BE PREPARED PER SPECIFICATIONS OR MANUFACTURER REQUIREMENTS.
- CONTRACTOR AND ALL ITS SUBCONTRACTORS SHALL ADHERE TO CITY STANDARD BEST MANAGEMENT PRACTICES TO ENSURE PROPER MEASURES ARE TAKEN DURING THE DEMOLITION, CONSTRUCTION AND DISPOSAL OF ALL CONSTRUCTION MATERIAL, EQUIPMENT AND FIXTURES EXTRACTED FROM THE SITE.
- ALL MECHANICAL AND ELECTRICAL EQUIPMENT, LIGHTS OR DEVICES THAT ARE REQUIRED TO BE UL TESTED OR APPROVED SHALL HAVE A U LISTING LABEL. THE LABEL SHALL NOT BE REMOVED OR PAINTED OVER OR OTHERWISE CONCEALED. ANY EQUIPMENT NOT LISTED WILL BE REQUIRED TO BE FIELD TESTED AND CERTIFIED BY AN APPROVED TESTING AGENCY AND THE AHJ.
- AT COMPLETION OF JOB, SITE AND INTERIORS WILL BE SWEEPED CLEAN AND ALL SURFACES INCLUDING WINDOWS SHALL BE CLEANED.
- EXTERIOR STUCCO AND INTERIOR WALL AND CEILING FINISHES SHALL CONFORM TO CHAPTER 47 U.B.C.
- INSPECTION SHALL BE COMPLETED FOR ALL IN PLACE INTERIOR AND EXTERIOR LATH OR WALLBOARD PRIOR TO PLASTERING AND TAPING AND FINISHING OF FASTENERS.
- PROVIDE AN APPROVED SHOWER PAN AND DRAIN. HOT MOP AFTER PLASTERING. EXTEND SHOWER PAN & TUB WATERPROOF MEMBRANE 2 FEET UP WALLS AND 2 FEET BEYOND SHOWER CURBS.
- ALL WALL & FLOOR TILE SHALL BE SET OVER TAPED & SEALED 1/2" CEMENT BOARD OR APPROVED EQUAL.
- ALL DOORS AND WINDOWS SHALL BE FULLY WEATHERSTRIPPED.
- OPENINGS SHALL BE CAULKED AND SEALED; I.E. AROUND JOINTS IN WINDOWS, WALL SOLE PLATES, OPENINGS FOR UTILITY PIPING AND WIRING, ETC.
- MANUFACTURED DOORS AND WINDOWS SHALL MEET APPLICABLE ANSI, AAMA OR NWMA STANDARDS AND BE SO LABELED.
- ALL DUCTWORK MUST COMPLY WITH CHAPTER 10, UMC.
- PERMANENT VACUUM BREAKERS SHALL BE PROVIDED ON ALL HOSE BIBBS.
- NEW BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL BE A MINIMUM OF 4" INCHES HIGH WITH A MINIMUM STROKE OF .5 INCHES. WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. CFC SECTION 505.
- KITCHEN APPLIANCES AND TOILET FIXTURES SUPPLIED BY OWNER & INSTALLED BY CONTRACTOR.
- ALL WALL AND CEILING FINISH TO COMPLY WITH CBC CHAPTER 8, TABLE 8-B.
- TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS GLAZED.
- ARCHITECT RESERVES THE RIGHT TO DIRECT REMOVAL AND REINSTALLATION OF WORK WHICH DOES NOT, IN THE OPINION OF THE ARCHITECT, MAINTAIN STANDARDS AND WORKMANSHIP OF A CRAFT.
- CARE IS REQUIRED TO PRESERVE EXISTING VEGETATION. VEGETATION MAY NOT BE REMOVED OR DESTROYED WITHOUT EXPRESSED WRITTEN CONSENT AND INSTRUCTIONS OF THE OWNER OR ARCHITECT.
- CONTRACTOR SHALL USE CAUTION WHEN TRENCHING ACROSS SITE NOT TO DAMAGE SIGNIFICANT VEGETATION AND ROOTS. CONTRACTOR SHALL LAYOUT PROPOSED ROUTING OF UNDERGROUND UTILITIES AND BUILDING FOOTPRINT PRIOR TO TRENCHING FOR OWNER APPROVAL. THESE PLANS AND ALL WORK SHALL COMPLY WITH THE CALIFORNIA BUILDING STANDARDS CODE FOUND IN STATE OF CALIFORNIA TITLE 24 CCR

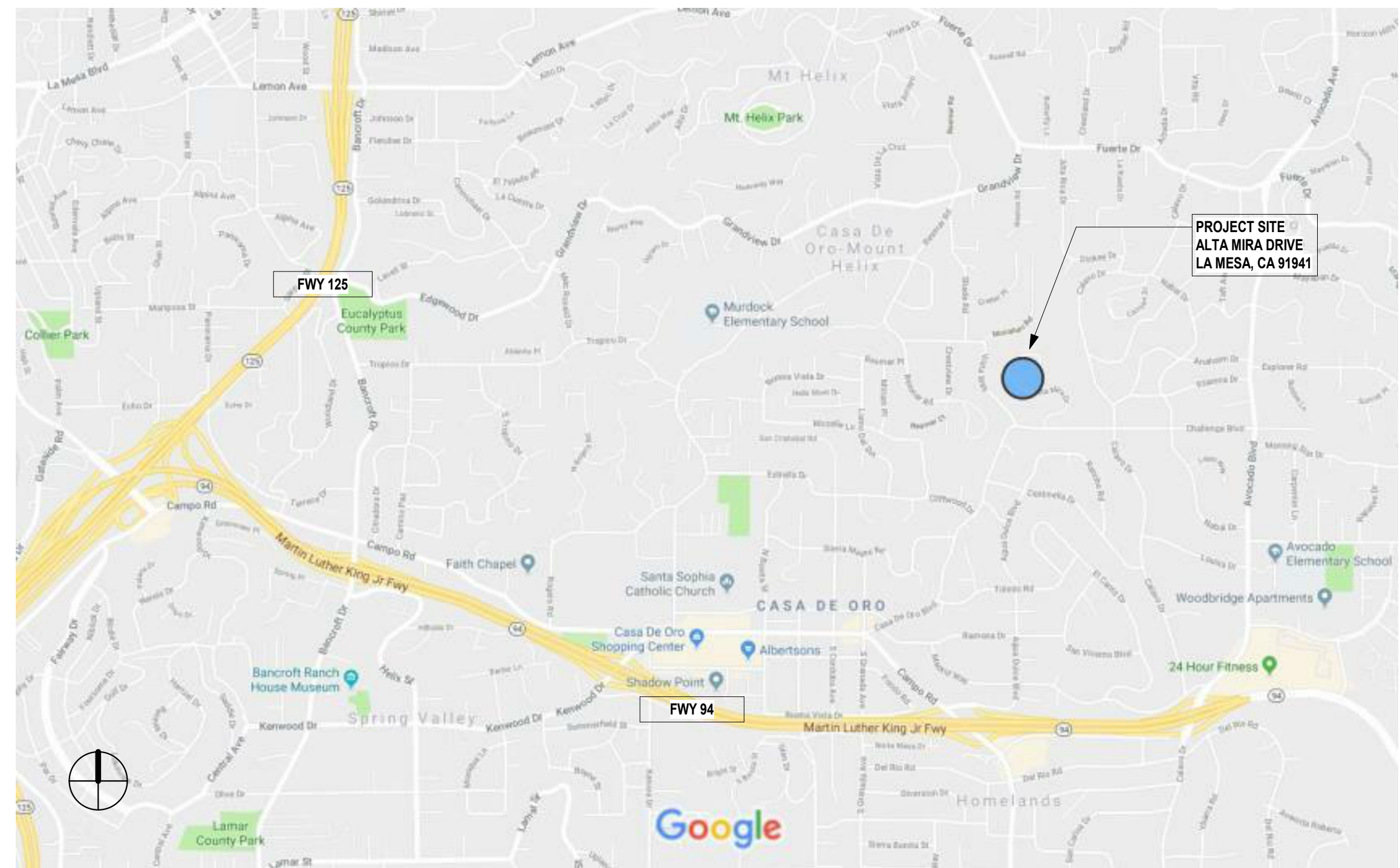
ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
APROX	APPROXIMATE
BOG	BOTTOM OF GUELAM
BRK	BRICK
CFL	CEILING FINISH LEVEL
CONT	CONTINUOUS
COL	COLUMN
CONC	CONCRETE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CPT	CARPET
CYD	CUBIC YARDS
DEMO	DEMOLISH
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG'S	DRAWINGS
EA	EACH
(E)	EXISTING
EQ	EQUAL
EQUIP	EQUIPMENT
EXT	EXTERIOR
FAU	FORCED AIR UNIT
FD	FLOOR DRAIN
FFL	FINISH FLOOR LEVEL
GYP BD	GYPSPUM BOARD
GALV	GALVANIZED
GA	GAUGE
HW	WATER HEATER
INFO	INFORMATION
INT	INTERIOR
INSUL	INSULATION
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
PT	PAINTED
PLYWD	PLYWOOD
RD	ROOF DRAIN
REQ	REQUIRED
RM	ROOM
RWL	RAIN WATER LEADER
SQFT	SQUARE FEET
STRUCTL	STRUCTURAL
SS	STAINLESS STEEL
TOC	TOP OF CURB
TOG	TOP OF GUELAM
TOP	TOP OF PARAPET
TYP	TYPICAL
TBD	TO BE DETERMINED
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW

SYMBOLS



VICINITY MAP



PROJECT INFORMATION

ADDRESS	ALTA MIRA DR LA MESA CA 91941	CODE	2016 CALIFORNIA BUILDING CODE Part 2 of Title 24 2016 CALIFORNIA ELECTRICAL CODE Part 3 of Title 24 2016 CALIFORNIA MECHANICAL CODE Part 4 of Title 24 2016 CALIFORNIA PLUMBING CODE Part 5 of Title 24 2016 CALIFORNIA ENERGY CODE Part 6 of Title 24 2016 CALIFORNIA FIRE CODE Part 8 of Title 24 2016 CALIFORNIA REFERENCED STANDARDS CODE UNIFORM ADMINISTRATIVE CODE SECTION 302
LEGAL DESCRIPTION	SUBD. LOT #46 MT HELIX CALAVO GARDENS UNIT #6 PM03470 PAR 1	PROJECT SCOPE	2,857 SF SINGLE FAMILY RESIDENCE CONSISTING OF 3 BEDROOMS, 4.1 BATHROOMS INCLUDING FAMILY ROOM, MULTIPURPOSE ROOMS AND 2 VEHICLE CARPORT. INCLUDING SITE RETAINING WALLS FLANKING THE CARPORT ACCESS DRIVE
ASSESSORS PARCEL NUMBER (APN)	501-041-22-00		
LOT SIZE	33,976 SQ FT		
ZONING	SEMI RURAL RESIDENTIAL SR-0.5 (1DU / 0.5AC)		
USE	SINGLE FAMILY RESIDENTIAL		
SETBACKS	INTERIOR SIDE YARD: 10 FEET FRONT: 50 FEET REAR: 40 FEET		
HEIGHT LIMITS	35' / 2 STORIES		
ALLOWABLE LOT COVERAGE	N/A		
CONSTRUCTION TYPE	TYPE V		
SPRINKLERED	YES		

SHEET INDEX								
SHEET NUMBER	SHEET NAME	11/27/19 - Plan Check Submission	8/21/20 - Plan Check Response #01	03/05/21 - Plan Check Response #02	03/22/22 - Plan Check Response #03	06/01/22 - Plan Check Response #04	08/21/23 - Bulletin 01	12/06/23 - Plan Check Response #05
S1.0-R	Structural Notes	*	*	*	*	*	*	*
S1.1-R	Structural Notes	*	*	*	*	*	*	*
S1.2-R	Typical Foundation Details	*	*	*	*	*	*	*
S1.3-R	Typical Masonry Details	*	*	*	*	*	*	*
S1.4-R	Typical Framing Details	*	*	*	*	*	*	*
S2.1-R	Pool Terrace Foundation Plan	*	*	*	*	*	*	*
S2.2-R	Lower Level Partial Foundation / Framing Plan	*	*	*	*	*	*	*
S2.3-R	Street Level Framing Plan	*	*	*	*	*	*	*
S2.4-R	Roof Framing Plan	*	*	*	*	*	*	*
S6.0-R	Foundation Details	*	*	*	*	*	*	*
S6.3-R	Foundation Details	*	*	*	*	*	*	*
S7.0-R	Shear Wall Details	*	*	*	*	*	N/A	N/A
S7.1-R	Masonry Details	*	*	*	*	*	N/A	N/A
S7.2-R	Framing Details	*	*	*	*	*	*	*
S7.3-R	Framing Details	*	*	*	*	*	*	*

SHEET INDEX									
SHEET NUMBER	SHEET NAME	11/27/19 - Plan Check Submission	8/21/20 - Plan Check Response #01	03/05/21 - Plan Check Response #02	03/22/22 - Plan Check Response #03	06/01/22 - Plan Check Response #04	08/21/23 - Bulletin 01	12/06/23 - Plan Check Response #05	04/12/24 - Bulletin 02
A-000	Cover	*	*	*	*	*	*	*	*
A-001-R	General Information	*	*	*	*	*	*	*	*
A-003-R	Plot - BMP Plan	*	*	*	*	*	*	*	*
A-004-R	2016 Cal Green Mandatory Measures	*	*	*	*	*	*	*	*
A-005-R	2016 Cal Green Mandatory Measures	*	*	*	*	*	*	*	*
A-007	Min. Const. Specifications	*	*	*	*	*	*	*	*
A-010	Exterior Views	*	*	*	*	*	*	*	*
A-020	Energy Calculations (1 of 2)	*	*	*	*	*	*	*	*
A-021	Energy Calculations (2 of 2)	*	*	*	*	*	*	*	*
A-100-R	Site Plan	*	*	*	*	*	*	*	*
A-201-R	Street Level Plan	*	*	*	*	*	*	*	*
A-202-R	Lower Level Plan	*	*	*	*	*	*	*	*
A-203-R	Pool Level Plan	*	*	*	*	*	*	*	*
A-204	Roof Plan	*	*	*	*	*	*	*	*
A-301	Street Level RCP	*	*	*	*	*	*	*	*
A-302	Lower Level RCP	*	*	*	*	*	*	*	*
A-303	Pool Level RCP	*	*	*	*	*	*	*	*
A-401-R	Elevations	*	*	*	*	*	*	*	*
A-402-R	Elevations	*	*	*	*	*	*	*	*
A-501-R	Building Sections	*	*	*	*	*	*	*	*
A-502-R	Building Sections	*	*	*	*	*	*	*	*
A-503-R	Building Sections	*	*	*	*	*	*	*	*
A-550-R	Wall Sections	*	*	*	*	*	*	*	*
A-553-R	Wall Sections	*	*	*	*	*	*	*	*
A-554	Wall Sections	*	*	*	*	*	*	*	*
A-560-R	Roof, Floor & Wall Assemblies	*	*	*	*	*	*	*	*
A-600-R	Schedules	*	*	*	*	*	*	*	*
A-700-R	Details	*	*	*	*	*	*	*	*
A-701-R	Details	*	*	*	*	*	*	*	*
A-702-R	Details	*	*	*	*	*	*	*	*
A-703-R	Door & Window Floor Plan Details	*	*	*	*	*	*	*	*
A-704-R	Details	*	*	*	*	*	*	*	*
A-705-R	Details	*	*	*	*	*	*	*	*
A-706-R	Details	*	*	*	*	*	*	*	*
A-707-R	Alternative Glass Rail Details	*	*	*	*	*	*	*	*
A-708-R	Details	*	*	*	*	*	*	*	*
A-709	Details	*	*	*	*	*	*	*	*
A-800-R	Glass Balustrade ESR-3269 Report	*	*	*	*	*	*	*	*
A-800.1	Glass Balustrade ESR-3269 Report (Cont.)	*	*	*	*	*	*	*	*
A-801	Wood Deck Product Information	*	*	*	*	*	*	*	*
A-802-R	Window Product Information	*	*	*	*	*	*	*	*
A-802.1	Window Product Information (Cont.)	*	*	*	*	*	*	*	*
A-803-R	Lightweight Insulating Concrete (LWIC)	*	*	*	*	*	*	N/A	N/A
A-804-R	Guardrail Detail & Scope / Vehicular Waterproofing Membrane	*	*	*	*	*	*	*	*
P-201	Street Level Power Plan	*	*	*	*	*	*	*	*
P-202-R	Lower Level Power Plan	*	*	*	*	*	*	*	*
P-203	Pool Level Power Plan	*	*	*	*	*	*	*	*
P-204	Hydronic System	*	*	*	*	*	*	*	*

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NO	DATE	REASON FOR ISSUE	CHK
07	04/19/24	Bulletin_02	LB
06	08/21/23	Bulletin_01	LB
05	06/01/22	City Plan Check #04	LB
04	03/30/22	City Plan Check #03	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

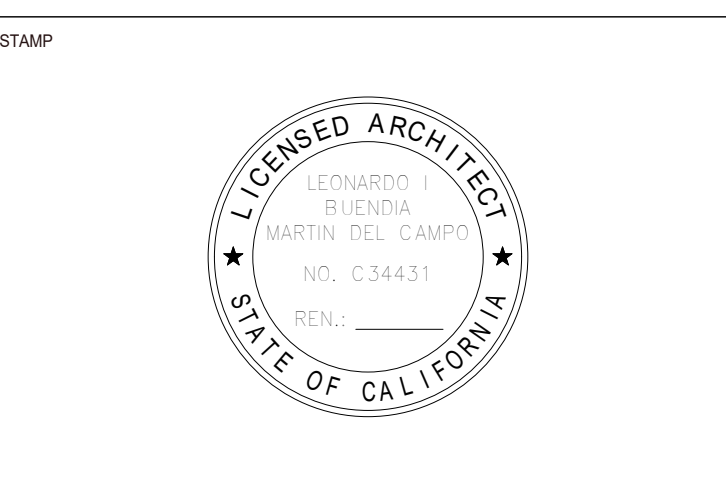
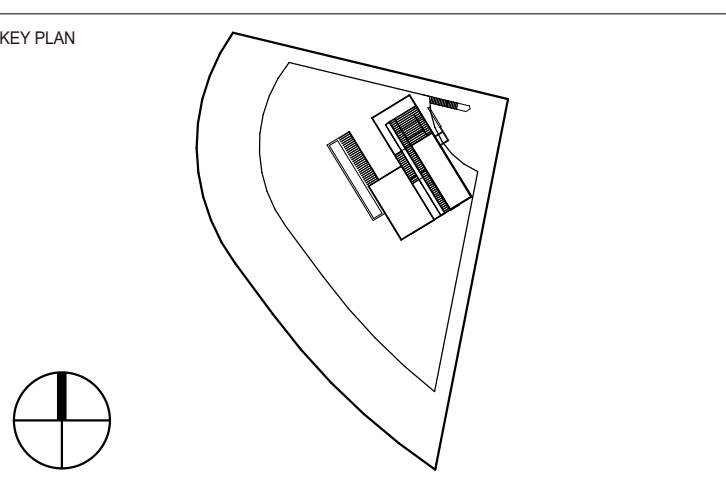
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PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
General Information

PROJECT	DZK-2018-01	DATE	11/27/2019
NUMBER	A-001-R	SCALE	As indicated

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (INCLUDING JANUARY 1, 2017 ERRATA)

ALL RIGHTS RESERVED. THE INCLUDED DESIGN, IDEAS, IMAGES AND DRAWINGS EXCEPTED THEREIN ARE THE PROPERTY OF AIA AND SHALL NOT BE REPRODUCED, DISCLOSED OR DISSEMINATED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF AIA.

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<p>CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL</p> <p>301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.</p> <p>301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.</p> <p>Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.</p> <p>301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.</p> <p>SECTION 302 MIXED OCCUPANCY BUILDINGS</p> <p>302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.</p> <p>ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise AA Additions and Alterations N New</p> <p>CHAPTER 4 RESIDENTIAL MANDATORY MEASURES DIVISION 4.1 PLANNING AND DESIGN SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)</p> <p>FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar porous material used to collect or channel drainage or runoff water.</p> <p>WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.</p> <p>4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.</p> <p>4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.</p> <ol style="list-style-type: none"> Retention basins of sufficient size shall be utilized to retain storm water on the site. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. Compliance with a lawfully enacted storm water management ordinance. <p>4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:</p> <ol style="list-style-type: none"> Swales Water collection and disposal systems French drains Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater recharge. <p>Exception: Additions and alterations not altering the drainage path.</p> <p>4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 and 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i>, Article 625.</p> <p>Exceptions: On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:</p> <ol style="list-style-type: none"> Where there is no commercial power supply. Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or developer by more than \$400.00 per unit. <p>4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.</p> <p>4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".</p> <p>4.106.4.2 New multifamily dwellings. Where 17 or more multifamily dwelling units are constructed on a building site, 3 percent of the total number of parking spaces provided for all types of parking facilities, but in no case less than one, shall be electric vehicle charging stations (EV spaces) capable of supporting future EVSE. Calculations for the number of EV spaces shall be rounded up to the nearest whole number.</p> <p>Note: Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.</p> <p>4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. At least one EV space shall be located in common use areas and available for use by all residents.</p> <p>When EV chargers are installed, EV spaces required by Section 4.106.2.2, Item 3, shall comply with at least one of the following options:</p> <ol style="list-style-type: none"> The EV space shall be located adjacent to an accessible parking space meeting the requirements of the <i>California Building Code</i>, Chapter 11A, to allow use of the EV charger from the accessible parking space. The EV space shall be located on an accessible route, as defined in the <i>California Building Code</i>, Chapter 2, to the building. 	<p>4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following:</p> <ol style="list-style-type: none"> The minimum length of each EV space shall be 18 feet (5486 mm). The minimum width of each EV space shall be 9 feet (2743 mm). One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm). <p>a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.</p> <p>4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV spaces. Construction documents shall identify the raceway termination point. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.</p> <p>4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.</p> <p>4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the <i>California Electrical Code</i>.</p> <p>Notes:</p> <ol style="list-style-type: none"> The California Department of Transportation adopts and publishes the "California Manual on Uniform Traffic Control Devices (California MUTCD)" to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission Vehicle Signs and Pavement Markings can be found in the New Policies & Directives Number 13-01. Website: www.dot.ca.gov/trafficops/policy/13-01.pdf See Vehicle Code Section 22511 for EV charging space signage in off-street parking facilities and for use of EV charging spaces. The Governor's Office of Planning and Research (OPR) published a "Zero-Emission Vehicle Community Readiness Guidebook" which provides helpful information for local governments, residents and businesses. Website: http://opr.ca.gov/docs/ZEV_Guidebook.pdf. <p>DIVISION 4.2 ENERGY EFFICIENCY 4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.</p> <p>DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:</p> <p>4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.</p> <p>Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.</p> <p>4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.</p> <p>4.303.1.3 Showerheads.</p> <p>4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.</p> <p>4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.</p> <p>Note: A hand-held shower shall be considered a showerhead.</p> <p>4.303.1.4 Faucets.</p> <p>4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.</p> <p>4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.</p> <p>4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.</p> <p>4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.</p> <p>Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.</p> <p>4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code.</p> <p>NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.</p> <table border="1"> <thead> <tr> <th colspan="2">TABLE - MAXIMUM FIXTURE WATER USE</th> </tr> <tr> <th>FIXTURE TYPE</th> <th>FLOW RATE</th> </tr> </thead> <tbody> <tr> <td>SHOWER HEADS (RESIDENTIAL)</td> <td>2.0 GMP @ 80 PSI</td> </tr> <tr> <td>LAVATORY FAUCETS (RESIDENTIAL)</td> <td>MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI</td> </tr> <tr> <td>LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS</td> <td>0.5 GPM @ 60 PSI</td> </tr> <tr> <td>KITCHEN FAUCETS</td> <td>1.8 GPM @ 60 PSI</td> </tr> <tr> <td>METERING FAUCETS</td> <td>0.25 GAL/CYCLE</td> </tr> <tr> <td>WATER CLOSET</td> <td>1.28 GAL/FLUSH</td> </tr> <tr> <td>URINALS</td> <td>0.125 GAL/FLUSH</td> </tr> </tbody> </table>	TABLE - MAXIMUM FIXTURE WATER USE		FIXTURE TYPE	FLOW RATE	SHOWER HEADS (RESIDENTIAL)	2.0 GMP @ 80 PSI	LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI	LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI	KITCHEN FAUCETS	1.8 GPM @ 60 PSI	METERING FAUCETS	0.25 GAL/CYCLE	WATER CLOSET	1.28 GAL/FLUSH	URINALS	0.125 GAL/FLUSH	<p>4.304 OUTDOOR WATER USE 4.304.1 IRRIGATION CONTROLLERS. Automatic irrigation system controllers for landscaping provided by the builder and installed at the time of final inspection shall comply with the following:</p> <ol style="list-style-type: none"> Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input. <p>Note: More information regarding irrigation controller function and specifications is available from the Irrigation Association.</p> <p>DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/topping plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.</p> <p>4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite. The enforcing agency may make exceptions to the requirements of this section when isolated jobsite are located in areas beyond the haul boundaries of the diversion facility. <p>4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.</p> <ol style="list-style-type: none"> Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream). Identify diversion facilities where the construction and demolition waste material collected will be taken. Identify construction methods employed to reduce the amount of construction and demolition waste generated. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. <p>4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.</p> <p>Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.</p> <p>4.408.4 WASTE STREAM REDUCTION ALTERNATIVE (LR). Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.</p> <p>4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 lbs./sq.ft. of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.</p> <p>4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4.</p> <p>Notes:</p> <ol style="list-style-type: none"> Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). <p>4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:</p> <ol style="list-style-type: none"> Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. Operation and maintenance instructions for the following: <ol style="list-style-type: none"> Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment. Roof and yard drainage, including gutters and downspouts. Space conditioning systems, including condensers and air filters. Landscape irrigation systems. Water reuse systems. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. Public transportation and/or carpool options available in the area. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range. Information about water-conserving landscape and irrigation design and controllers which conserve water. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc. Information about state solar energy and incentive programs available. A copy of all special inspections verifications required by the enforcing agency or this [California Green Building Standards] code. <p>4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and is identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.</p> <p>DIVISION 4.5 ENVIRONMENTAL QUALITY SECTION 4.501 GENERAL 4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.</p> <p>SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)</p> <p>AGRIFIBER PRODUCTS. Agrifiber products include fiberboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (F&E) not considered base building elements.</p> <p>COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.</p> <p>DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.</p>	<p>MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O₃/g ROG). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.</p> <p>MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.</p> <p>PRODUCT-WEIGHTED MIR (PW MIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PW MIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PW MIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).</p> <p>REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.</p> <p>VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).</p> <p>4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indication they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.</p> <p>4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.</p> <p>4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.</p> <p>4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:</p> <ol style="list-style-type: none"> Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of <i>California Code of Regulations</i>, Title 17, commencing with section 94507. <p>4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.</p> <p>4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.</p> <p>4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:</p> <ol style="list-style-type: none"> Manufacturer's product specification. Field verification of on-site product containers. <table border="1"> <thead> <tr> <th colspan="2">TABLE 4.504.1 - ADHESIVE VOC LIMIT_{1,2}</th> </tr> <tr> <th colspan="2">(Less Water and Less Exempt Compounds in Grams per Liter)</th> </tr> <tr> <th>ARCHITECTURAL APPLICATIONS</th> <th>CURRENT VOC LIMIT</th> </tr> </thead> <tbody> <tr> <td>INDOOR CARPET ADHESIVES</td> <td>50</td> </tr> <tr> <td>CARPET PAD ADHESIVES</td> <td>50</td> </tr> <tr> <td>OUTDOOR CARPET ADHESIVES</td> <td>150</td> </tr> <tr> <td>WOOD FLOORING ADHESIVES</td> <td>100</td> </tr> <tr> <td>RUBBER FLOOR ADHESIVES</td> <td>60</td> </tr> <tr> <td>SUBFLOOR ADHESIVES</td> <td>50</td> </tr> <tr> <td>CERAMIC TILE ADHESIVES</td> <td>65</td> </tr> <tr> <td>VCT & ASPHALT TILE ADHESIVES</td> <td>50</td> </tr> <tr> <td>DRYWALL & PANEL ADHESIVES</td> <td>50</td> </tr> <tr> <td>COVE BASE ADHESIVES</td> <td>50</td> </tr> <tr> <td>MULTIPURPOSE CONSTRUCTION ADHESIVE</td> <td>70</td> </tr> <tr> <td>STRUCTURAL GLAZING ADHESIVES</td> <td>100</td> </tr> <tr> <td>SINGLE-PLY ROOF MEMBRANE ADHESIVES</td> <td>250</td> </tr> <tr> <td>OTHER ADHESIVES NOT LISTED</td> <td>50</td> </tr> <tr> <th colspan="2">SPECIALTY APPLICATIONS</th> </tr> <tr> <td>PVC WELDING</td> <td>510</td> </tr> <tr> <td>CPVC WELDING</td> <td>490</td> </tr> <tr> <td>ABS WELDING</td> <td>325</td> </tr> <tr> <td>PLASTIC CEMENT WELDING</td> <td>250</td> </tr> <tr> <td>ADHESIVE PRIMER FOR PLASTIC</td> <td>550</td> </tr> <tr> <td>CONTACT ADHESIVE</td> <td>80</td> </tr> <tr> <td>SPECIAL PURPOSE CONTACT ADHESIVE</td> <td>250</td> </tr> <tr> <td>STRUCTURAL WOOD MEMBER ADHESIVE</td> <td>140</td> </tr> <tr> <td>TOP & TRIM ADHESIVE</td> <td>250</td> </tr> <tr> <th colspan="2">SUBSTRATE SPECIFIC APPLICATIONS</th> </tr> <tr> <td>METAL TO METAL</td> <td>30</td> </tr> <tr> <td>PLASTIC FOAMS</td> <td>50</td> </tr> <tr> <td>POROUS MATERIAL (EXCEPT WOOD)</td> <td>50</td> </tr> <tr> <td>WOOD</td> <td>30</td> </tr> <tr> <td>FIBERGLASS</td> <td>80</td> </tr> </tbody> </table> <p>1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.</p> <p>2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.</p>	TABLE 4.504.1 - ADHESIVE VOC LIMIT _{1,2}		(Less Water and Less Exempt Compounds in Grams per Liter)		ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT	INDOOR CARPET ADHESIVES	50	CARPET PAD ADHESIVES	50	OUTDOOR CARPET ADHESIVES	150	WOOD FLOORING ADHESIVES	100	RUBBER FLOOR ADHESIVES	60	SUBFLOOR ADHESIVES	50	CERAMIC TILE ADHESIVES	65	VCT & ASPHALT TILE ADHESIVES	50	DRYWALL & PANEL ADHESIVES	50	COVE BASE ADHESIVES	50	MULTIPURPOSE CONSTRUCTION ADHESIVE	70	STRUCTURAL GLAZING ADHESIVES	100	SINGLE-PLY ROOF MEMBRANE ADHESIVES	250	OTHER ADHESIVES NOT LISTED	50	SPECIALTY APPLICATIONS		PVC WELDING	510	CPVC WELDING	490	ABS WELDING	325	PLASTIC CEMENT WELDING	250	ADHESIVE PRIMER FOR PLASTIC	550	CONTACT ADHESIVE	80	SPECIAL PURPOSE CONTACT ADHESIVE	250	STRUCTURAL WOOD MEMBER ADHESIVE	140	TOP & TRIM ADHESIVE	250	SUBSTRATE SPECIFIC APPLICATIONS		METAL TO METAL	30	PLASTIC FOAMS	50	POROUS MATERIAL (EXCEPT WOOD)	50	WOOD	30	FIBERGLASS	80
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WATER CLOSET	1.28 GAL/FLUSH																																																																																						
URINALS	0.125 GAL/FLUSH																																																																																						
TABLE 4.504.1 - ADHESIVE VOC LIMIT _{1,2}																																																																																							
(Less Water and Less Exempt Compounds in Grams per Liter)																																																																																							
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT																																																																																						
INDOOR CARPET ADHESIVES	50																																																																																						
CARPET PAD ADHESIVES	50																																																																																						
OUTDOOR CARPET ADHESIVES	150																																																																																						
WOOD FLOORING ADHESIVES	100																																																																																						
RUBBER FLOOR ADHESIVES	60																																																																																						
SUBFLOOR ADHESIVES	50																																																																																						
CERAMIC TILE ADHESIVES	65																																																																																						
VCT & ASPHALT TILE ADHESIVES	50																																																																																						
DRYWALL & PANEL ADHESIVES	50																																																																																						
COVE BASE ADHESIVES	50																																																																																						
MULTIPURPOSE CONSTRUCTION ADHESIVE	70																																																																																						
STRUCTURAL GLAZING ADHESIVES	100																																																																																						
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250																																																																																						
OTHER ADHESIVES NOT LISTED	50																																																																																						
SPECIALTY APPLICATIONS																																																																																							
PVC WELDING	510																																																																																						
CPVC WELDING	490																																																																																						
ABS WELDING	325																																																																																						
PLASTIC CEMENT WELDING	250																																																																																						
ADHESIVE PRIMER FOR PLASTIC	550																																																																																						
CONTACT ADHESIVE	80																																																																																						
SPECIAL PURPOSE CONTACT ADHESIVE	250																																																																																						
STRUCTURAL WOOD MEMBER ADHESIVE	140																																																																																						
TOP & TRIM ADHESIVE	250																																																																																						
SUBSTRATE SPECIFIC APPLICATIONS																																																																																							
METAL TO METAL	30																																																																																						
PLASTIC FOAMS	50																																																																																						
POROUS MATERIAL (EXCEPT WOOD)	50																																																																																						
WOOD	30																																																																																						
FIBERGLASS	80																																																																																						
<p>DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.</p>																																																																																							

02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB
NO	DATE	REASON FOR ISSUE	CHK

PERMIT SET

ARCHITECT

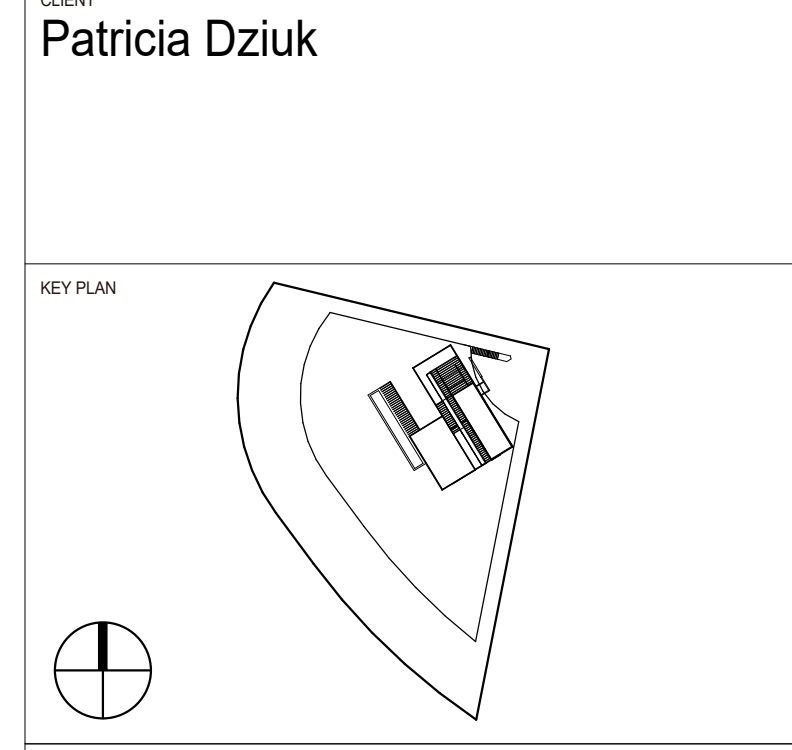
o.lbm
972 Embarcadero Road, Palo Alto, CA 94303
619.410.1432 lb@leonardobuendia.com

CONSULTANT

CONSULTANT

CLIENT

Patricia Dziuk



PROJECT

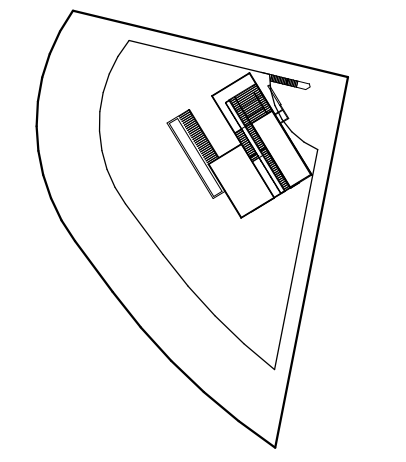

Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE

2016 Cal Green Mandatory Measures

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-004	12" = 1'-0"

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2 (INCLUDING JANUARY 1, 2017 ERRATA)

INSPECTOR SIGNOFF	INSPECTOR SIGNOFF	INSPECTOR SIGNOFF	INSPECTOR SIGNOFF																																																																																																																																
<p>TABLE 4.504.2 - SEALANT VOC LIMIT (Less Water and Less Exempt Compounds in Grams per Liter)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SEALANTS</th> <th>CURRENT VOC LIMIT</th> </tr> </thead> <tbody> <tr><td>ARCHITECTURAL</td><td>250</td></tr> <tr><td>MARINE DECK</td><td>760</td></tr> <tr><td>NONMEMBRANE ROOF</td><td>300</td></tr> <tr><td>ROADWAY</td><td>250</td></tr> <tr><td>SINGLE-PLY ROOF MEMBRANE</td><td>450</td></tr> <tr><td>OTHER</td><td>420</td></tr> </tbody> </table> <p>SEALANT PRIMERS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ARCHITECTURAL</th> <th></th> </tr> </thead> <tbody> <tr><td>NON-POROUS</td><td>250</td></tr> <tr><td>POROUS</td><td>775</td></tr> <tr><td>MODIFIED BITUMINOUS</td><td>500</td></tr> <tr><td>MARINE DECK</td><td>760</td></tr> <tr><td>OTHER</td><td>750</td></tr> </tbody> </table> <p>TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>COATING CATEGORY</th> <th>CURRENT VOC LIMIT</th> </tr> </thead> <tbody> <tr><td>FLAT COATINGS</td><td>50</td></tr> <tr><td>NON-FLAT COATINGS</td><td>100</td></tr> <tr><td>NONFLAT-HIGH GLOSS COATINGS</td><td>150</td></tr> <tr><td>SPECIALTY COATINGS</td><td></td></tr> <tr><td>ALUMINUM ROOF COATINGS</td><td>400</td></tr> <tr><td>BASEMENT SPECIALTY COATINGS</td><td>400</td></tr> <tr><td>BITUMINOUS ROOF COATINGS</td><td>50</td></tr> <tr><td>BITUMINOUS ROOF PRIMERS</td><td>350</td></tr> <tr><td>BOND BREAKERS</td><td>350</td></tr> <tr><td>CONCRETE CURING COMPOUNDS</td><td>350</td></tr> <tr><td>CONCRETE/MASONRY SEALERS</td><td>100</td></tr> <tr><td>DRIVEWAY SEALERS</td><td>50</td></tr> <tr><td>DRY FOG COATINGS</td><td>150</td></tr> <tr><td>FAUX FINISHING COATINGS</td><td>350</td></tr> <tr><td>FIRE RESISTIVE COATINGS</td><td>350</td></tr> <tr><td>FLOOR COATINGS</td><td>100</td></tr> <tr><td>FORM-RELEASE COMPOUNDS</td><td>250</td></tr> <tr><td>GRAPHIC ARTS COATINGS (SIGN PAINTS)</td><td>500</td></tr> <tr><td>HIGH TEMPERATURE COATINGS</td><td>420</td></tr> <tr><td>INDUSTRIAL MAINTENANCE COATINGS</td><td>250</td></tr> <tr><td>LOW SOLIDS COATINGS</td><td>120</td></tr> <tr><td>MAGNESITE CEMENT COATINGS</td><td>450</td></tr> <tr><td>MASTIC TEXTURE COATINGS</td><td>100</td></tr> <tr><td>METALLIC PIGMENTED COATINGS</td><td>500</td></tr> <tr><td>MULTICOLOR COATINGS</td><td>250</td></tr> <tr><td>PRETREATMENT WASH PRIMERS</td><td>420</td></tr> <tr><td>PRIMERS, SEALERS, & UNDERCOATERS</td><td>100</td></tr> <tr><td>REACTIVE PENETRATING SEALERS</td><td>350</td></tr> <tr><td>RECYCLED COATINGS</td><td>250</td></tr> <tr><td>ROOF COATINGS</td><td>50</td></tr> <tr><td>RUST PREVENTATIVE COATINGS</td><td>250</td></tr> <tr><td>SHELLACS</td><td></td></tr> <tr><td>CLEAR</td><td>730</td></tr> <tr><td>OPAQUE</td><td>550</td></tr> <tr><td>SPECIALTY PRIMERS, SEALERS & UNDERCOATERS</td><td>100</td></tr> <tr><td>STAINS</td><td>250</td></tr> <tr><td>STONE CONSOLIDANTS</td><td>450</td></tr> <tr><td>SWIMMING POOL COATINGS</td><td>340</td></tr> <tr><td>TRAFFIC MARKING COATINGS</td><td>100</td></tr> <tr><td>TUB & TILE REFINISH COATINGS</td><td>420</td></tr> <tr><td>WATERPROOFING MEMBRANES</td><td>250</td></tr> <tr><td>WOOD COATINGS</td><td>275</td></tr> <tr><td>WOOD PRESERVATIVES</td><td>350</td></tr> <tr><td>ZINC-RICH PRIMERS</td><td>340</td></tr> </tbody> </table> <p>1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.</p>	SEALANTS	CURRENT VOC LIMIT	ARCHITECTURAL	250	MARINE DECK	760	NONMEMBRANE ROOF	300	ROADWAY	250	SINGLE-PLY ROOF MEMBRANE	450	OTHER	420	ARCHITECTURAL		NON-POROUS	250	POROUS	775	MODIFIED BITUMINOUS	500	MARINE DECK	760	OTHER	750	COATING CATEGORY	CURRENT VOC LIMIT	FLAT COATINGS	50	NON-FLAT COATINGS	100	NONFLAT-HIGH GLOSS COATINGS	150	SPECIALTY COATINGS		ALUMINUM ROOF COATINGS	400	BASEMENT SPECIALTY COATINGS	400	BITUMINOUS ROOF COATINGS	50	BITUMINOUS ROOF PRIMERS	350	BOND BREAKERS	350	CONCRETE CURING COMPOUNDS	350	CONCRETE/MASONRY SEALERS	100	DRIVEWAY SEALERS	50	DRY FOG COATINGS	150	FAUX FINISHING COATINGS	350	FIRE RESISTIVE COATINGS	350	FLOOR COATINGS	100	FORM-RELEASE COMPOUNDS	250	GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	HIGH TEMPERATURE COATINGS	420	INDUSTRIAL MAINTENANCE COATINGS	250	LOW SOLIDS COATINGS	120	MAGNESITE CEMENT COATINGS	450	MASTIC TEXTURE COATINGS	100	METALLIC PIGMENTED COATINGS	500	MULTICOLOR COATINGS	250	PRETREATMENT WASH PRIMERS	420	PRIMERS, SEALERS, & UNDERCOATERS	100	REACTIVE PENETRATING SEALERS	350	RECYCLED COATINGS	250	ROOF COATINGS	50	RUST PREVENTATIVE COATINGS	250	SHELLACS		CLEAR	730	OPAQUE	550	SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100	STAINS	250	STONE CONSOLIDANTS	450	SWIMMING POOL COATINGS	340	TRAFFIC MARKING COATINGS	100	TUB & TILE REFINISH COATINGS	420	WATERPROOFING MEMBRANES	250	WOOD COATINGS	275	WOOD PRESERVATIVES	350	ZINC-RICH PRIMERS	340	<p>TABLE 4.504.4 - FORMALDEHYDE LIMITS: MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>PRODUCT</th> <th>CURRENT LIMIT</th> </tr> </thead> <tbody> <tr><td>HARDWOOD PLYWOOD VENEER CORE</td><td>0.05</td></tr> <tr><td>HARDWOOD PLYWOOD COMPOSITE CORE</td><td>0.05</td></tr> <tr><td>PARTICLE BOARD</td><td>0.09</td></tr> <tr><td>MEDIUM DENSITY FIBERBOARD</td><td>0.11</td></tr> <tr><td>THIN MEDIUM DENSITY FIBERBOARD</td><td>0.13</td></tr> </tbody> </table> <p>1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).</p> <p>DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product requirements of at least one of the following:</p> <ol style="list-style-type: none"> Carpet and Rug Institute's Green Label Plus Program. California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1, February 2010 (also known as Specification 01350). NSF/ANSI 140 at the Gold level. Scientific Certifications Systems Indoor Advantage Gold. <p>4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.</p> <p>4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.</p> <p>4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following:</p> <ol style="list-style-type: none"> Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program). Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350). <p>4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5.</p> <p>4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:</p> <ol style="list-style-type: none"> Product certifications and specifications. Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European EN 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards. Other methods acceptable to the enforcing agency. <p>4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.</p> <p>4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.</p> <p>4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:</p> <ol style="list-style-type: none"> A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. Other equivalent methods approved by the enforcing agency. A slab design specified by a licensed design professional. <p>4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:</p> <ol style="list-style-type: none"> Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. <p>Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.</p> <p>4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:</p> <ol style="list-style-type: none"> Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control. <ol style="list-style-type: none"> Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 60%. A humidity control may utilize manual or automatic means of adjustment. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in). <p>Notes:</p> <ol style="list-style-type: none"> For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code. <p>4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:</p> <ol style="list-style-type: none"> The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods. <p>Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.</p>	PRODUCT	CURRENT LIMIT	HARDWOOD PLYWOOD VENEER CORE	0.05	HARDWOOD PLYWOOD COMPOSITE CORE	0.05	PARTICLE BOARD	0.09	MEDIUM DENSITY FIBERBOARD	0.11	THIN MEDIUM DENSITY FIBERBOARD	0.13	<p>CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:</p> <ol style="list-style-type: none"> State certified apprenticeship programs. Public utility training programs. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations. Other programs acceptable to the enforcing agency. <p>702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:</p> <ol style="list-style-type: none"> Certification by a national or regional green building program or standard publisher. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency. <p>Notes:</p> <ol style="list-style-type: none"> Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS). <p>[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.</p> <p>Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.</p> <p>703 VERIFICATIONS 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.</p>	<p>02 08/21/20 City Plan Check #01 LB</p> <p>01 11/27/19 Plan Check Submission LB</p> <p>NO DATE REASON FOR ISSUE CHK</p> <p style="text-align: center;">PERMIT SET</p> <p>ARCHITECT</p> <p style="font-size: 24pt; font-weight: bold;">o.lbm</p> <p>972 Embarcadero Road, Palo Alto, CA 94303 619.410.1432 lb@leonardobuendia.com</p> <p>CONSULTANT</p> <p>CONSULTANT</p> <p>CLIENT</p> <p>Patricia Dziuk</p> <p>KEY PLAN</p>  <p>STAMP</p>  <p>PROJECT</p> <p>Infinity Residence 4403 Alta Mira Drive La Mesa, CA 91941</p> <p>TITLE</p> <p>2016 Cal Green Mandatory Measures</p> <p>PROJECT DZK-2018-01 DATE 11/27/2019</p> <p>NUMBER A-005 SCALE 12" = 1'-0"</p>
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ROOF COATINGS	50																																																																																																																																		
RUST PREVENTATIVE COATINGS	250																																																																																																																																		
SHELLACS																																																																																																																																			
CLEAR	730																																																																																																																																		
OPAQUE	550																																																																																																																																		
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100																																																																																																																																		
STAINS	250																																																																																																																																		
STONE CONSOLIDANTS	450																																																																																																																																		
SWIMMING POOL COATINGS	340																																																																																																																																		
TRAFFIC MARKING COATINGS	100																																																																																																																																		
TUB & TILE REFINISH COATINGS	420																																																																																																																																		
WATERPROOFING MEMBRANES	250																																																																																																																																		
WOOD COATINGS	275																																																																																																																																		
WOOD PRESERVATIVES	350																																																																																																																																		
ZINC-RICH PRIMERS	340																																																																																																																																		
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HARDWOOD PLYWOOD VENEER CORE	0.05																																																																																																																																		
HARDWOOD PLYWOOD COMPOSITE CORE	0.05																																																																																																																																		
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MEDIUM DENSITY FIBERBOARD	0.11																																																																																																																																		
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DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB
NO	DATE	REASON FOR ISSUE	CHK

PERMIT SET

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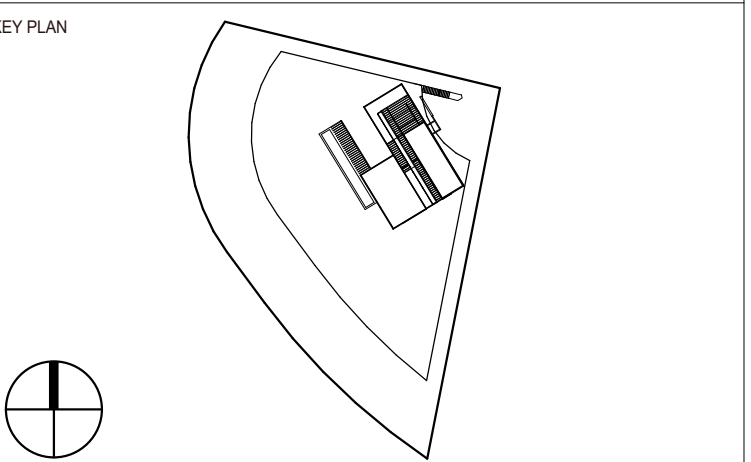
972 Embarcadero Road, Palo Alto, CA 94303
619.410.1432 lb@leonardobuendia.com

CONSULTANT

CONSULTANT

CLIENT

Patricia Dziuk



PROJECT

Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE

2016 Cal Green Mandatory Measures

PROJECT DZK-2018-01	DATE 11/27/2019
NUMBER A-005	SCALE 12" = 1'-0"

A. General
Applicable codes. All projects shall comply with the 2019 California Building Code (CBC) and/or California Residential Code (CRC), 2019 California Green Building Standards Code (CALGreen), 2019 California Electrical Code (CEC), 2019 California Mechanical Code (CMC), 2019 California Plumbing Code (CPC), 2019 California Fire Code (CFC), 2019 California Building Energy Efficiency Standards (CBES), and all County of San Diego amendments.

A. Electrical, Plumbing, and Mechanical
1. **Exterior lighting.** All projects shall comply with the County of San Diego lighting ordinance.
2. **GFCI outlets.** Ground Fault Circuit Interrupter (GFCI) outlets are required in bathrooms, at kitchen countertops, in laundry and wet bar sinks, in garages, in crawlspaces, in unfinished basements, and outdoors. (CEC 210.8)

3. **AFCI outlets.** Electrical circuits in bedrooms, living rooms, dining rooms, dens, closets, hallways, or similar rooms must be protected by Arc Fault Circuit Interrupters (AFCI). (CEC 210.12)
4. **Luminaire requirements.** Installed luminaires shall meet the efficacy and fixture requirements of CBES 150.0(k).

5. **Smoke detectors in building remodels.** Smoke detectors are required in each existing sleeping room, outside each separate sleeping area in the immediate vicinity of sleeping rooms, and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R314.3)
6. **Carbon monoxide detectors in building remodels.** Carbon monoxide detectors are required outside each separate sleeping area in the immediate vicinity of sleeping rooms and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R315.3)

7. **Water heater seismic strapping.** Minimum two 3/4-inch-by-24-gauge straps required around water heaters, with 1/4-inch-by-3-inch lag bolts attached directly to framing. Straps shall be at points within upper third and lower third of water heater vertical dimension. Lower connection shall occur minimum 4 inches above controls. (CPC 507.2)
8. **Gas appliances in garages.** Water heaters and heating/cooling equipment capable of igniting flammable vapors shall be placed on minimum 18-inch-high platform unless listing report number provided showing ignition-resistant appliance. (CPC 507.13 and CMC 305.1)

9. **Impact protection of appliances.** Water heaters and heating/cooling equipment subject to vehicular impact shall be protected by bollards or an equivalent measure. (CPC 507.13.1 and CMC 305.1.1)
10. **Water closet clearance.** Minimum 30-inch-wide by 24-inch-deep clearance required at front of water closets. (CPC 402.5)
11. **Shower size.** Shower compartments shall have minimum area of 1024 square inches and be able to encompass a 30-inch-diameter circle. Shower doors shall have a minimum 22-inch unobstructed width. (CPC 408.5 and CPC 408.6)

12. **Fireplace appliances.** Fireplaces with gas appliances are required to have the flue damper permanently fixed in the open position and fireplaces with LPG appliances are to have no "oil" or "sump" configurations. (CMC 303.7.1)
13. **Chimney clearance.** Minimum 2-foot chimney clearance required above building within 10-foot horizontally of chimney. The chimney shall extend minimum 3 feet above highest point where chimney passes through roof. (CRC R1003.9)

C. Mechanical Ventilation and Indoor Air Quality (ASHRAE 62.2-2010)
1. **Transfer Air.** Ventilation air shall be provided directly from the outdoors and not as transfer air from adjacent dwelling units or other spaces, such as garages, unconditioned crawlspaces, or unconditioned attics. (CBES 150.0(i))
2. **Instructions and labeling.** Ventilation system controls shall be labeled and the home owner shall be provided with instructions on how to operate the system. (CBES 150.0(o))

3. **Combustion and solid-fuel burning appliances.** Combustion appliances shall be properly vented and air systems shall be designed to prevent back drafting. (CBES 150.0(p))
4. **Garages.** The wall and openings between occupiable spaces and the garage shall be sealed. HVAC systems that include air handlers or return ducts located in garages shall have total air leakage of no more than 6% of total air flow when measured at 0.1 in. w.c. using California Title 24 or equivalents. (CBES 150.0(o))
5. **Minimum filtration.** Mechanical systems supplying air to occupiable space through ductwork shall be provided with a filter having a minimum efficiency of MERV 6 or better. (CBES 150.0(o))

6. **Air inlets.** Air inlets (not exhausts) shall be located away from known contaminants. (CBES 150.0(o))
7. **Air moving equipment.** Air moving equipment used to meet either the whole-building ventilation requirement or the local ventilation exhaust requirement shall be rated in terms of airflow and sound. (CBES 150.0(o))
a. All continuously operating fans shall be rated at a maximum of 1.0 sone.
b. Intermittently operated whole-building ventilation fans shall be rated at a maximum of 1.0 sone.
c. Intermittently operated local exhaust fans shall be rated at maximum of 3.0 sone.
d. Remotely located air-moving equipment (mounted outside of habitable spaces) need not meet sound requirements if at least 4 feet of ductwork between fan and intake grill.

D. Foundation and Underfloor
1. **Foundation reinforcement.** Continuous footings and stem walls shall be provided with a minimum two longitudinal No. 4 bars, one at the top and one at the bottom of the footing. (CRC R403.1.3.3)
2. **Shear wall foundation support.** Shear walls shall be supported by continuous foundations. (CRC 403.1.2)
3. **Concrete slabs-on-grade.** Slabs-on-grade shall be minimum 3-1/2-inches thick. (CRC R506.1)

4. **Vapor retarder.** A 6-mil polyethylene or approved vapor retarder with joints lapped minimum 8 inches shall be placed between a concrete slab-on-grade and the base course or subgrade. (CRC 509.2.3)
5. **Anchor bolts and sills.** Foundation plates or sills shall be bolted or anchored to the foundation or foundation wall per the following (CRC R403.1.6 and CRC R602.11.1):
a. Minimum 1/2-inch-diameter steel bolts
b. Bolts embedded at least 7 inches into concrete or masonry
c. Bolts spaced maximum 6 feet on center
d. Minimum two bolts per plate/sill piece with one bolt located maximum 12 inches and minimum 7 bolt diameters from each end of each sill plate/plate
e. Minimum 3-inch by 3-inch by 0.299-inch steel plate washer between sill and nut on each bolt

6. **Hold-downs.** All hold-downs must be fully in place prior to foundation inspection.
7. **Protection of wood against decay.** Naturally durable or preservative-treated wood shall be provided in the following locations (CRC R317.1):
a. All wood in contact with ground, embedded in concrete in direct contact with ground, or embedded in concrete exposed to weather
b. Wood joints within 18 inches and wood girders within 12 inches of the exposed ground in crawl spaces shall be of naturally durable or preservative-treated wood
c. Wood framing members that rest on concrete or masonry exterior foundation walls and are less than 8 inches from exposed earth shall be of naturally durable or preservative-treated wood
d. Wood framing, sheathing, and siding on the exterior of the building and having clearance less than 6 inches from the exposed ground or less than 2 inches vertically from concrete steps, porch slabs, patio slabs, and similar horizontal surface exposed to weather

e. Sills and sleepers on concrete or masonry slab in direct contact with ground unless separated from such slab by impervious moisture barrier
D. Foundation and Underfloor (Continued)
f. Ends of wood girders entering masonry or concrete walls with clearances less than 1/2 inch on tops, sides, and ends
g. Wood structural members supporting moisture-permeable floors or roofs exposed to weather, such as concrete or masonry slabs, unless separated from such floors or roofs by an impervious moisture barrier
h. Wood framing strips or other wood framing members attached directly to exterior of exterior concrete or masonry walls below grade except where vapor retarder applied between wall and framing strips or framing members
8. **Under-floor ventilation.** Under-floor areas shall have ventilation openings through foundation walls and exterior walls, with minimum net area of ventilation openings of 1 square foot for each 150 square feet of under-floor area. On such ventilating opening shall be within 3 feet of each corner of the building. (CRC R408.1)
9. **Under-floor access.** Under-floor areas shall be provided with a minimum 18-inch by 24-inch access opening. (CRC R408.4)

E. Wood Framing (Continued)
30. **Ridges, hips, and valleys.** Rafterers shall be framed to a ridge board or to each other with a gusset plate as a tie. Ridge boards shall be minimum 1-inch nominal thickness and not less in depth than the cut end of the rafter. At all valleys and hips, there shall be a valley or hip rafter not less than 2-inch nominal thickness and not less in depth than the cut end of the rafter. Hip and valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed to carry and distribute the specific load at that point. Where the roof pitch is less than 3:12 slope (25% gradient), structural members that support rafters and ceilings joists, such as ridges, hips, and valleys, shall be designed as beams. (CRC R302.7)
31. **Ceiling joist and rafter connections.** Ceiling joists and rafters shall be nailed to each other per CRC Table R602.5.1(9), and the rafter shall be nailed to the wall top plate per CRC Table R602.3.1. Ceiling joists shall be continuous or securely joined per CRC Table R602.5.1(9) where they meet over interior partitions and are nailed to adjacent rafters to provide a continuous tie across the building when such joists are parallel to rafters. Where ceiling joists are not connected to the rafters at the wall top plate, joists connected higher in the attic shall be installed as rafter ties, or rafter ties shall be installed to provide a continuous tie. Where ceiling joists are not parallel to rafters, rafter ties shall be installed. Rafter ties shall be minimum 2 inches by 4 inches nominal, installed per CRC Table R602.5.1(9), or connections of equivalent capacities shall be provided. Where ceiling joists or rafter ties are not provided, the ridge formed by these rafters shall be supported by a wall or engineer-designed girder. (CRC R302.3.1)
32. **Ceiling joists.** Ends of ceiling joists shall be lapped minimum 3 inches or buttled over bearing partitions or beams and toenailed to the bearing element. Where ceiling joists provide resistance to rafter thrust, lapped joists shall be nailed together per CRC Table R602.3.1) and butted joists shall be tied together in a manner to resist such thrust. (CRC R302.3.2)
33. **Collar ties.** Collar ties or ridge straps to resist wind uplift shall be connected in the upper third of the attic space. Collar ties shall be a minimum 1 inch by 4 inches nominal and spaced at maximum 4 feet on center. (CRC R602.3.1)
34. **Purlins.** Purlins installed to reduce the span of rafters shall be sized not less than the required size of the rafters they support. Purlins shall be continuous and shall be supported by 2-inch-by-4-inch nominal braces installed to bearing walls at a minimum 45-degree slope from horizontal. The braces shall be spaced maximum 4 feet on center with a maximum 8-foot unbraced length. (CRC R602.5.1)
35. **Roof/ceiling member bearing.** The ends of each rafter or ceiling joist shall have not less than 1-1/2 inches of bearing on wood or metal and not less than 3 inches of bearing on masonry or concrete. (CRC R602.3.1)
36. **Roof/ceiling member lateral support.** Roof framing members and ceiling joists with a nominal depth-to-thickness ratio exceeding 5:1 shall be provided with lateral support at points of bearing to prevent rotation. (CRC R602.8)
37. **Roof/ceiling bridging.** Rafters and ceiling joists with a nominal depth-to-thickness ratio exceeding 5:1 shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch wood strip nailed across the rafters or ceiling joists at maximum 8-foot intervals. (CRC R602.8.1)
38. **Framing of roof/ceiling openings.** Openings in roof and ceiling framing shall be framed with a header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist may be a single member the same size as the ceiling joist or rafter. Single trimmer joists may be used to carry a single header joist located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and header joist shall be doubled and of sufficient cross section to support the ceiling joists or rafters framing into the header. Approved hangers shall be used for the header joist-to-trimmer joist connections when the header joist span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum 2 inches by 2 inches. (CRC R602.10.1)
39. **Roof framing above shear walls.** Rafters or roof trusses shall be connected to top plates of shear walls with blocking between the rafters or trusses. (CRC R602.10.8)
40. **Roof diaphragm under fill framing.** Roof plywood shall be continuous under California fill framing.
41. **Roof diaphragm at ridges.** Minimum 2-inch nominal blocking required for roof diaphragm nailing at ridges.
42. **Blocking of roof trusses.** Minimum 2-inch nominal blocking required between trusses at ridge lines and at points of bearing at exterior walls.
43. **Truss clearance.** Minimum 12-inch clearance required between top plates of interior non-bearing partitions and bottom chords of trusses.
44. **Drilling, cutting, and notching of roof/rafter framing.** Notches in solid lumber joists, rafters, bents, and beams shall not exceed one-sixth the member depth, shall be not longer than one-third the member depth, and shall not be located at the middle one-third of the span. Notches at member ends shall not exceed one-fourth the member depth. The tension side of members 4 inches or greater in nominal thickness shall not be notched except at member ends. The diameter of holes bored or cut into members shall not exceed one-third the member depth. Holes shall not be closer than 2 inches to the top or bottom of the member or to any other hole located in the member. Where the member is also notched, the hole shall not be closer than 2 inches to the notch. (CRC R602.8.1)
45. **Interior landings, decks, balconies, and stairs.** Such elements shall be positively anchored to the primary structure to resist both vertical and lateral forces or shall be designed to be self-supporting. Attachment shall not be accomplished by use of toenails or nails subject to withdrawal. (CRC R311.3)
46. **Fireblocking.** Fireblocking shall be provided in the following locations (CRC R302.11 and CRC R1023.19):
a. In concealed spaces of stud walls and partitions, including furred spaces, and parallel rows of studs or staggered studs, as follows:
i. Vertically at the ceiling and floor levels
ii. Horizontally at intervals not exceeding 10 feet
b. At all intersections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings, and cover ceilings
c. In concealed spaces between stair stringers at the top and bottom of the run
d. At openings around vents, pipes, ducts, cables and tops of ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion
e. At chimneys and fireplaces per Item E.49
f. Cornices of a two-family dwelling at the limit of dwelling-unit separation
47. **Fireblocking materials.** Except as otherwise specified in Items E.48 and E.49, fireblocking shall consist of the following materials with the integrity maintained (CRC R302.11.1):
a. Two-inch nominal lumber
b. Two thicknesses of one-inch nominal lumber with broken lap joints
c. One thickness of 23/32-inch wood structural panel with joints backed by 23/32-inch wood structural panel
d. One thickness of 3/4-inch particleboard with joints backed by 3/4-inch particleboard
e. 1/2-inch gypsum board
f. 1/4-inch cement-based millboard
g. Batts or blankets of mineral or glass fiber of other approved materials installed in such a manner as to be securely retained in place. Batts or blankets of mineral or glass fiber or other approved non-rigid materials shall be permitted for compliance with the 10-foot horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs. Unfaced fiberglass batt insulation used as fireblocking shall fill the entire cross-section of the wall cavity to a minimum height of 16 inches measured vertically. When piping, conduit, or similar obstructions are encountered, the insulation shall be packed tightly around the obstruction. Loose-fill insulation material shall not be used as a fireblock unless specifically tested in the form and manner intended for use to demonstrate its ability to remain in place and to retard the spread of fire and hot gases.
48. **Fireblocking at openings around vents, pipes, ducts, cables, and wires at ceiling and floor level.** Such openings shall be fireblocked with an approved material to resist the free passage of flame and products of combustion. (CRC R302.11)

E. Wood Framing (Continued)
49. **Fireblocking of chimneys and fireplaces.** All spaces between chimneys and floors and ceilings through which chimneys pass shall be fireblocked with noncombustible material securely fastened in place. The fireblocking of spaces between chimneys and wood joists, beams, or headers shall be self-supporting or be placed on strips of metal or metal lath laid across the spaces between combustible material and the chimney. (CRC R1003.19)
50. **Draftstopping.** In combustible construction where there is usable space both above and below the concealed space of a floor/ceiling assembly, draftstopping shall be installed so that the area of the concealed space does not exceed 1000 square feet. Draftstopping shall divide the concealed space into approximately equal areas. Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping shall be provided in floor/ceiling assemblies under the following circumstances (CRC R302.12):
a. Ceiling is suspended under the floor framing
b. Floor framing is constructed of truss-type open-web or perforated members
51. **Draftstopping materials.** Draftstopping shall not be less than 1/2-inch gypsum board, 3/8-inch wood structural panels, or other approved materials adequately supported. Draftstopping shall be installed parallel to the floor framing members unless otherwise approved by the building official. The integrity of draftstopping shall be maintained. (CRC R302.12.1)
52. **Combustible insulation clearance.** Combustible insulation shall be separated minimum 3 inches from recessed luminaires, fan motors, and other heat-producing devices. (CRC R302.14)

F. General Material Specifications
1. **Lumber.** All joists, rafters, beams, and posts 2-inches to 4-inches thick shall be No. 2 grade Douglas Fir-Larch or better. All posts and beams 5 inches and thicker shall be No. 1 grade Douglas Fir-Larch or better. Studs not more than 8 feet long shall be stud-grade Douglas Fir-Larch or better when supporting not more than one floor, roof, and ceiling. Studs longer than 8 feet shall be No. 2 grade Douglas Fir-Larch or better.
2. **Concrete.** Concrete shall have a minimum compressive strength of 2,500 psi at 28 days and shall consist of 1 part cement, 3 parts sand, and 1 to 2 parts gravel for use wet or dry.
3. **Mortar.** Mortar used in construction of masonry walls, foundation walls, and retaining walls shall conform to ASTM C 270 and shall consist of 1 part portland cement, 2-1/4 to 3 parts sand, and 1/4 to 1/2 part hydrated lime. (CEC 2103.2)
4. **Grout.** Grout shall conform to ASTM C 476 and shall consist of 1 part portland cement, 1 1/2 parts sand, and 1 to 2 parts gravel for use wet or dry. Grout shall have a minimum compressive strength of 2,000 psi at 28 days. (CEC 2103.3)
5. **Masonry.** Masonry units shall comply with ASTM C 90 for load-bearing masonry masonry units. (CRC 2103.1)
6. **Reinforcing steel.** Reinforcing steel used in construction of reinforced masonry or concrete structures shall be deformed and comply with ASTM A 615. (CEC 2103.4)
7. **Structural steel.** Structural steel used in structural shapes such as wide-flange sections, channels, plates, and angles shall comply with ASTM A 36. Pipe columns shall comply with ASTM A 53. Steel tubes shall comply with ASTM A 500, Grade B.
8. **Fasteners for preservative-treated wood.** Fasteners for preservative-treated and fire-retardant-treated wood - including nuts and washers - shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.1)
Exception: 1/2-inch diameter or greater steel bolts
9. **Fasteners for fire-retardant-treated wood.** Fasteners for fire-retardant-treated wood shall be mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 995, Class 55 minimum
Exception: Plain carbon steel fasteners acceptable in SBX/DOOT and zinc borate preservative-treated wood in an interior, dry environment
10. **Fasteners for fire-retardant-treated wood.** Fasteners for fire-retardant-treated wood shall be mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 995, Class 55 minimum
Exception: Plain carbon steel fasteners acceptable in SBX/DOOT and zinc borate preservative-treated wood in an interior, dry environment

G. Roofing and Weatherproofing
1. **Roof covering.** All roof covering shall be installed per applicable requirements of CBC 1507. Roof coverings shall be at least Class A rated in accordance with ASTM E 108 or UL 790, which shall include coverings of slate, clay or concrete roof tile, exposed concrete roof deck, ferrous or copper shingles or shingles. (Concrete Roofing Code 92.1-1505.1)
2. **Roof flashing.** Flashing shall be installed at wall and roof intersections, at gutters, wherever there is a change in roof slope or direction, and around roof openings. Where flashing is of metal, the metal shall be corrosion-resistant with a thickness of not less than 0.019 inch (No. 26 galvanized sheet). (CRC R603.3.1)
3. **Crickets and saddles.** A cricket or saddle shall be installed on the ridge side of any chimney or penetration more than 30 inches wide as measured perpendicular to the slope. Cricket or saddle covering shall be sheet metal of the same material as the roof covering. (CRC R603.2.2)
4. **Water-resistant barrier.** A minimum of one layer of No. 15 asphalt felt shall be attached to studs or sheathing of all exterior walls. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer minimum 2 inches. Where joints occur, felt shall be lapped minimum 6 inches. The felt shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to maintain a weather-resistant exterior wall envelope. (CRC R703.2)
5. **Wall flashing.** Approved corrosion-resistant flashing shall be applied shingle fashion at the following locations to prevent entry of water into the wall cavity or penetration of water to the building structural framing components (CRC R703.8):
a. Exterior door and window openings, extending to the surface of the exterior wall finish or to the water-resistant barrier for subsequent drainage
b. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting joists on both sides under stucco copings
c. Under and at the ends of masonry, wood, or metal copings and sills
d. Continuously above all projecting wood trim
e. Where exterior porches, decks, or stairs attach to a wall or floor assembly of wood-frame construction
f. At wall and roof intersections
g. At built-in gutters
6. **Dampproofing.** Dampproofing materials for foundation walls enclosing usable space below grade shall be installed on the exterior surface of the wall, and shall extend from the top of the footing to finished grade. (CRC R408.1)
7. **Water screed.** A minimum 0.019-inch (No. 26 galvanized sheet) sheet, corrosion-resistant weep screed or plastic weep screed with a minimum vertical attachment length of 3-1/2 inches shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 82. The weep screed shall be placed a minimum 4 inches above the earth or 2 inches above paved areas and shall be of a type allowed through water to drain to the exterior of the building. (CRC R703.2.1)

H. Grading and soils
1. **Grading permit.** Grading permit required if volume of earth moved exceeds 200 cubic yards or if any cuts or fills exceed 8 feet in height/depth. (County Geology Ordinance 2002)
2. **Compaction report.** Compaction report required for fill material 12 inches or more in depth. (CRC 1803.5.8)
I. Green Building Standards Code (CALGreen) Requirements
1. **Applicability.** CALGreen residential mandatory measures shall apply to every newly constructed building or structure and within any addition or alteration increasing a building's conditioned area, volume, or size. (CALGreen 01.3, CALGreen 301.1.1)
Exception: All residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures per CALGreen 301.1.1 and CALGreen 4.303.1

I. (CALGreen) Requirements (Continued)
2. **Water conserving plumbing fixtures and fittings.** Plumbing fixtures and fittings shall comply with the following per CALGreen 4.303.1:
a. Water closets: Maximum 2.0 gallons per flush
b. Urinals: Maximum 0.5 gallons per flush
c. Single showerheads: Maximum flow rate of 2.0 gallons per minute at 60 psi
d. Multiple showerheads serving one shower: Maximum combined flow rate of 2.0 gallons per minute at 60 psi
e. Lavatory faucets: Maximum flow rate of 1.2 gallons per minute at 60 psi, minimum flow rate of 0.8 gallons per minute at 20 psi
f. Kitchen faucets: Maximum flow rate of 1.8 gallons per minute at 60 psi
Exception: Temporary increase allowed to maximum 2.2 gallons per minute at 60 psi if faucet defaults back to maximum 1.8 gallons per minute at 60 psi
3. **Irrigation controllers.** Automatic irrigation systems controllers for landscaping shall comply with the following (CALGreen 4.304.1):
a. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change
b. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.
4. **Joints and openings.** Openings in the building envelope separating conditioned spaces from unconditioned spaces shall be protected against the passage of rodents by closing such opening with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.
5. **Construction waste reduction, disposal, and recycling.** Reduce and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition debris. (CALGreen 4.408.1)
Exception: Excavated soil and land-clearing debris.
6. **Construction waste management plan.** A construction waste management plan shall be prepared and available on site during construction. Documentation demonstrating compliance with the plan shall be accessible during construction for the enforcing agency. (CALGreen 4.408.2) The plan:
a. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale
b. Specify if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream)
c. Identify diversion facilities where the construction and demolition waste materials will be taken
d. Identify construction methods employed to reduce the amount of construction and demolition waste generated
e. Specify materials, construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both
7. **Operation and maintenance manual.** Prior to final inspection, a manual, compact disc, web-based reference, or other acceptable media which includes all of the following shall be included in the building file (CALGreen 4.410.1):
a. Directions to owner or occupant that manual shall remain with the building throughout the life cycle of the structure.
b. Operation and maintenance instructions for the following:
i. Equipment and appliances, including water-saving devices and systems, HVAC system, photovoltaic systems, water-heating systems and other major appliances and equipment.
ii. Exterior yard drainage, including gutters and downspouts.
iii. Space conditioning systems, including condensers and air filters.
iv. Landscape irrigation systems.
v. Water reuse systems.
c. Information on local utility, water, and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
d. Public transportation and/or carpool options available in the area.
e. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
f. Information about water-conserving landscape and irrigation design and controllers
g. Water-conserving water.
h. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
i. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
j. Information about state solar energy and incentive programs available.
k. A copy of all special inspection verifications required by the enforcing agency or code.
8. **Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation or during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust or debris which may collect in the system. (CALGreen 4.504.1)
9. **Adhesives, sealants, caulks, paints, and coatings pollutant control.** Adhesives (including carpet adhesives), sealants, caulks, paints, and coatings shall comply with Particulate Matter per CALGreen 4.504.2. Verification of compliance shall be provided at the request of the enforcing agency. (CALGreen 4.504.2.1)
10. **Carpet systems.** All carpet installed in the building interior shall meet the testing and product requirements of one of the following (CALGreen 4.504.3):
a. Carpet and Rug Institute's Green Label Plus Program (all carpet must meet the requirements of this program)
b. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350).
c. NSF/ANSI 140 at the Gold level.
d. Scientific Certifications Systems Indoor Advantage™ Gold.
11. **Resilient flooring systems.** At least 80 percent of the floor area receiving resilient flooring shall comply with one of more of the following (CALGreen 4.504.4):
a. VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance Products Database
b. Products compliant with CHPS criteria certified under the Greenguard Children & Schools program
c. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program
d. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350)

12. **Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CFR 93120 et seq.) by or before the dates specified in these sections, as shown in CALGreen Table 4.504.5. The following limits are in parts per million (CALGreen 4.504.5):
a. Hardwood plywood veneer core 0.05
b. Hardwood plywood composite core 0.05
c. Particleboard 0.05
d. Medium-density fiberboard (MDF) 0.11
e. Thin MDF (5/16 inch or less) 0.13

I. (CALGreen) Requirements (Continued)
13. **Moisture content of building materials.** Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following (CALGreen 4.503.3):
a. Moisture content shall be determined with either a probe-type or contact-type moisture meter.
b. Moisture readings shall be taken at a point 2 feet to 4 feet from the grade stamped end of each piece to be verified.
c. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.
Insulation products which are visibly wet or have high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products that follow the manufacturers' drying recommendations prior to enclosure.
14. **Bathrooms with a bathtub and/or shower shall be mechanically ventilated per the following (CALGreen 4.506.1):**
a. Fans shall be ENERGY STAR compliant and ducted to terminate outside building
b. Unless functioning as a component of a whole-house ventilation system, fans shall have humidity controls capable of adjustment - manually or automatically - between a relative humidity range of 50% to 80%.
15. **Heating and air-conditioning system design.** Heating and air-conditioning systems shall be sized, designed, and have their equipment selected using the following methods (CALGreen 4.507.2):
a. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J, ASHRAE handbooks, or other equivalent design software or methods.
b. Duct systems are sized according to ANSI/ACCA 1 Manual D 2009, ASHRAE handbooks, or other equivalent design software or methods.
c. Select heating and cooling equipment according to ACCA 36-S Manual S or other equivalent design software or methods

I. (CALGreen) Requirements (Continued)
16. **Moisture content of building materials.** Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following (CALGreen 4.503.3):
a. Moisture content shall be determined with either a probe-type or contact-type moisture meter.
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b. Unless functioning as a component of a whole-house ventilation system, fans shall have humidity controls capable of adjustment - manually or automatically - between a relative humidity range of 50% to 80%.
18. **Heating and air-conditioning system design.** Heating and air-conditioning systems shall be sized, designed, and have their equipment selected using the following methods (CALGreen 4.507.2):
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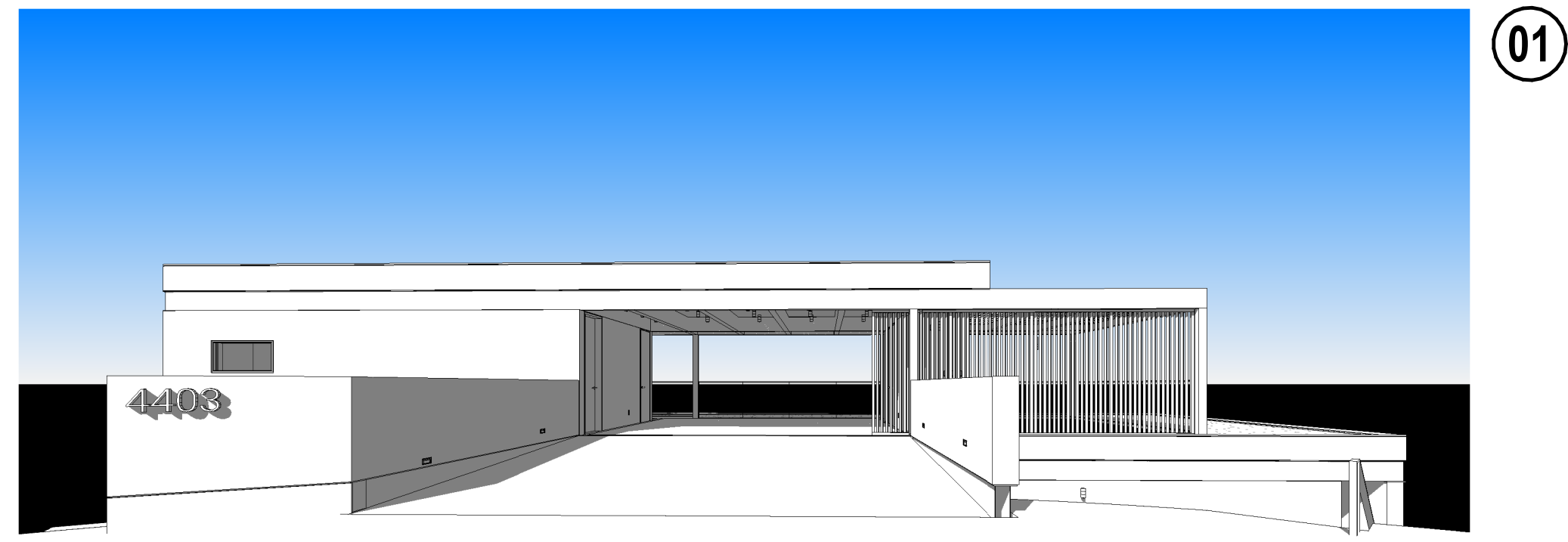
I. (CALGreen) Requirements (Continued)
19. **Moisture content of building materials.** Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following (CALGreen 4.503.3):
a. Moisture content shall be determined with either a probe-type or contact-type moisture meter.
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I. (CALGreen) Requirements (Continued)
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b. Unless functioning as a component of a whole-house ventilation system, fans shall have humidity controls capable of adjustment - manually or automatically - between a relative humidity range of 50% to 80%.
24. **Heating and air-conditioning system design.** Heating and air-conditioning systems shall be sized, designed, and have their equipment selected using the following methods (CALGreen 4.507.2):
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c. Select heating and cooling equipment according to ACCA 36-S Manual S or other equivalent design software or methods

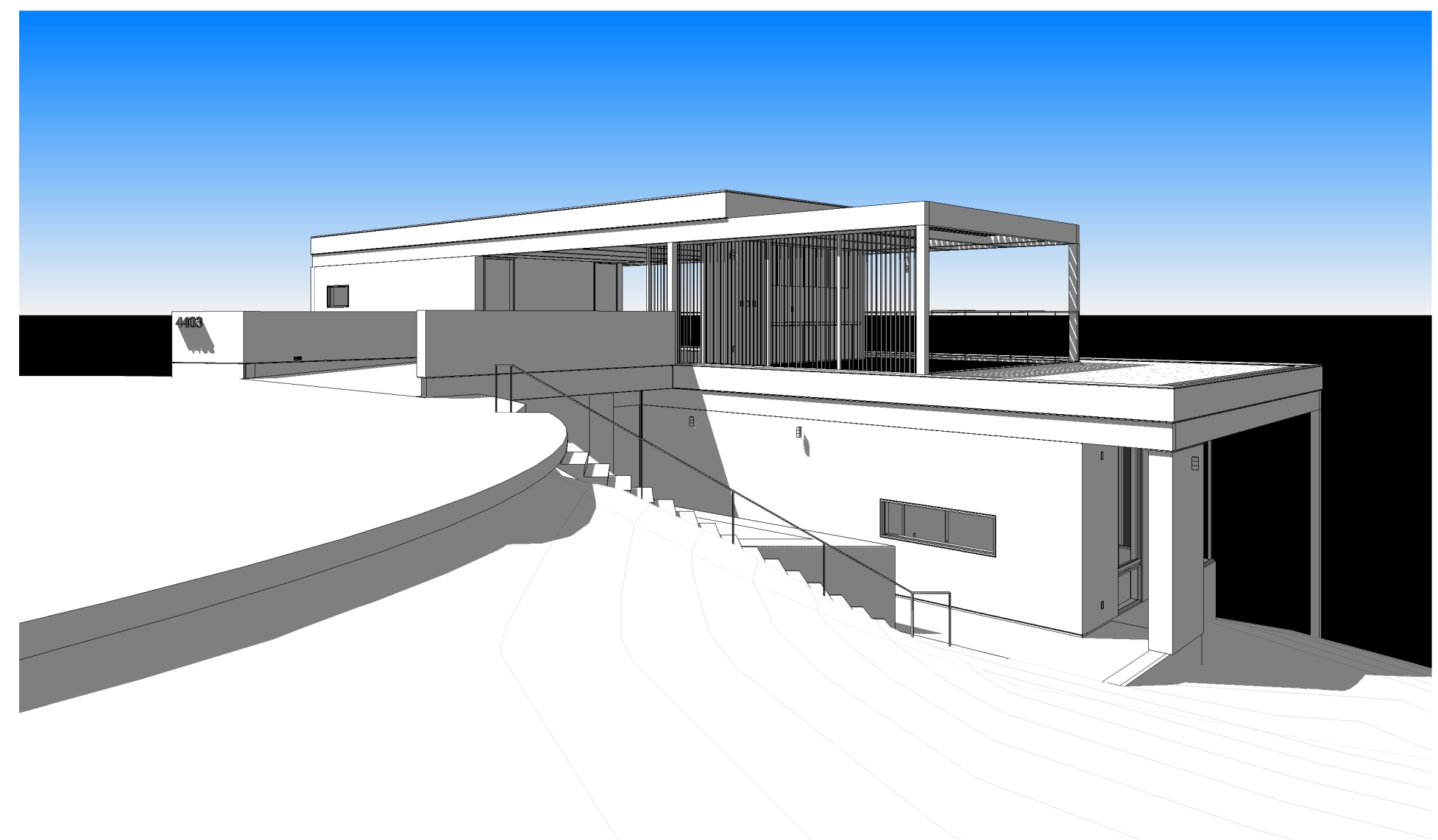
I. (CALGreen) Requirements (Continued)
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c. Select heating and cooling equipment according to ACCA 36-S Manual S or other equivalent design software or methods

TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF MEMBER CONNECTION	FASTENER TYPE AND SIZE	
		TYPE AND SIZE	MINIMUM SPACING
1	Wood-to-wood (joist to joist, rafter to rafter, beam to beam, post to post)	16d common nail	12"
2	Wood-to-concrete (ledger to wall, post to foundation)	1/2" x 8" lag screw	12"
3	Wood-to-metal (joist to steel beam, rafter to steel beam)	1/2" x 8" lag screw	12"
4	Wood-to-wood (joist to rafter, rafter to beam, post to post)	16d common nail	12"
5	Wood-to-concrete (header to wall, post to foundation)	1/2" x 8" lag screw	12"



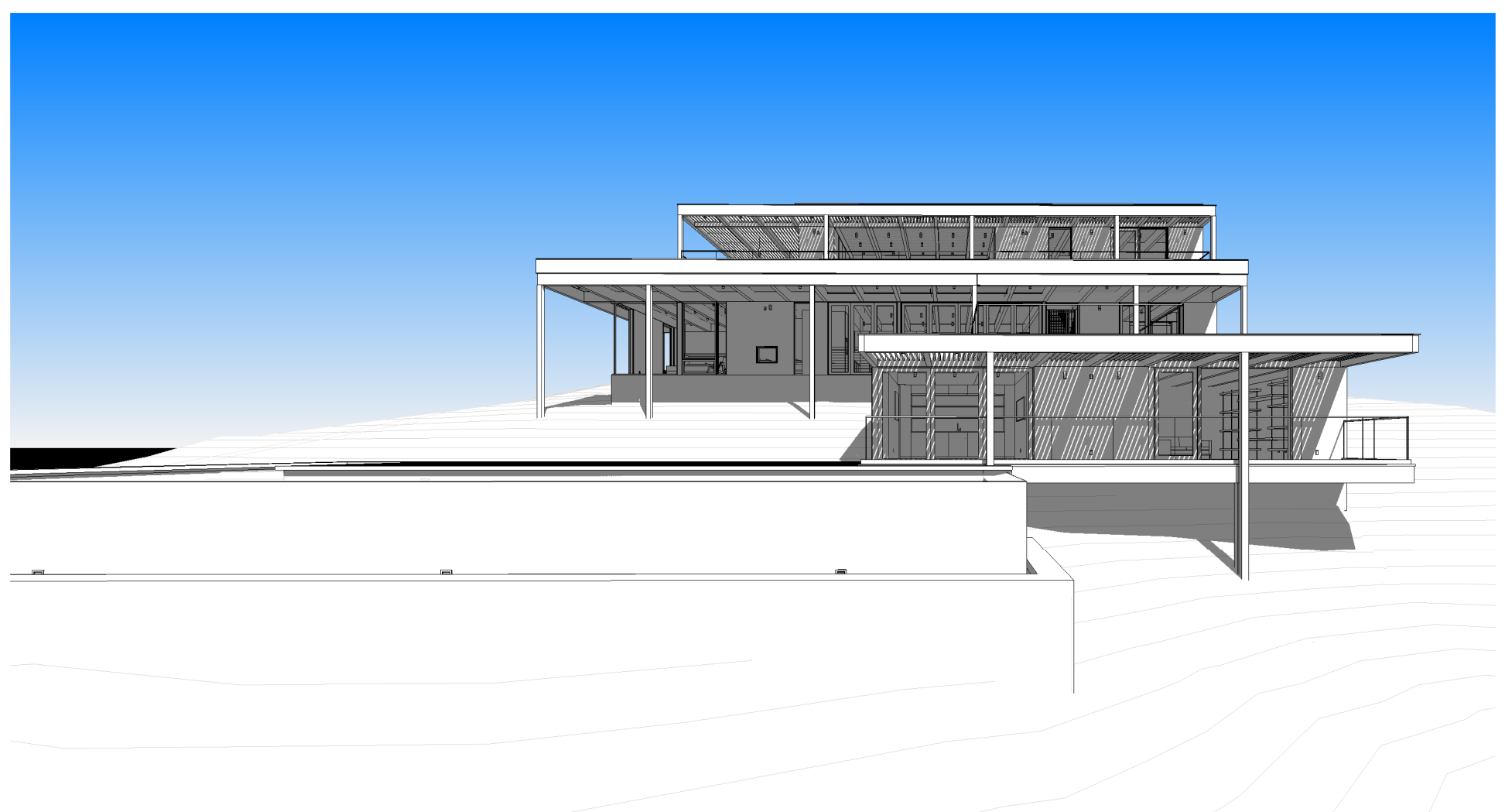
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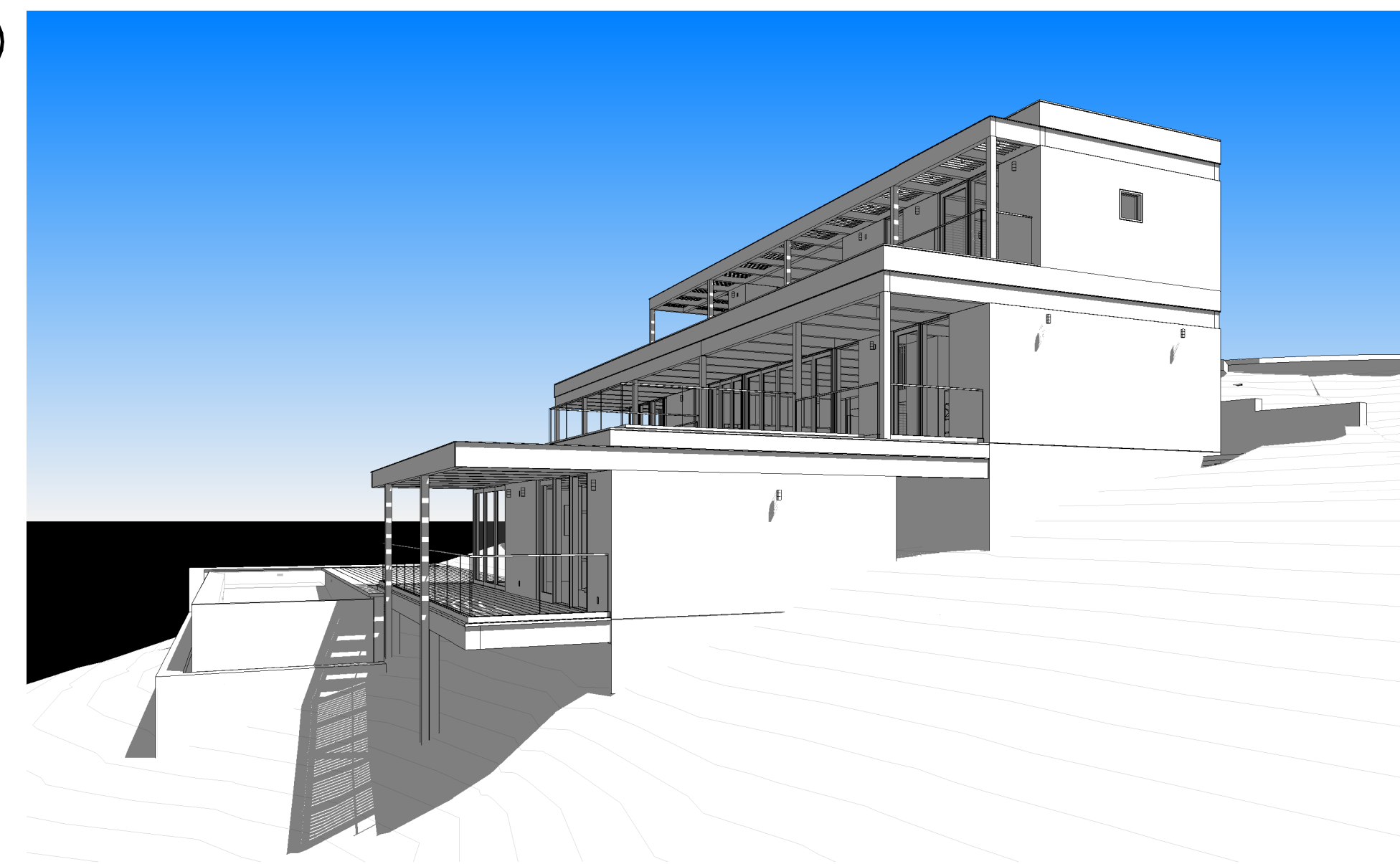
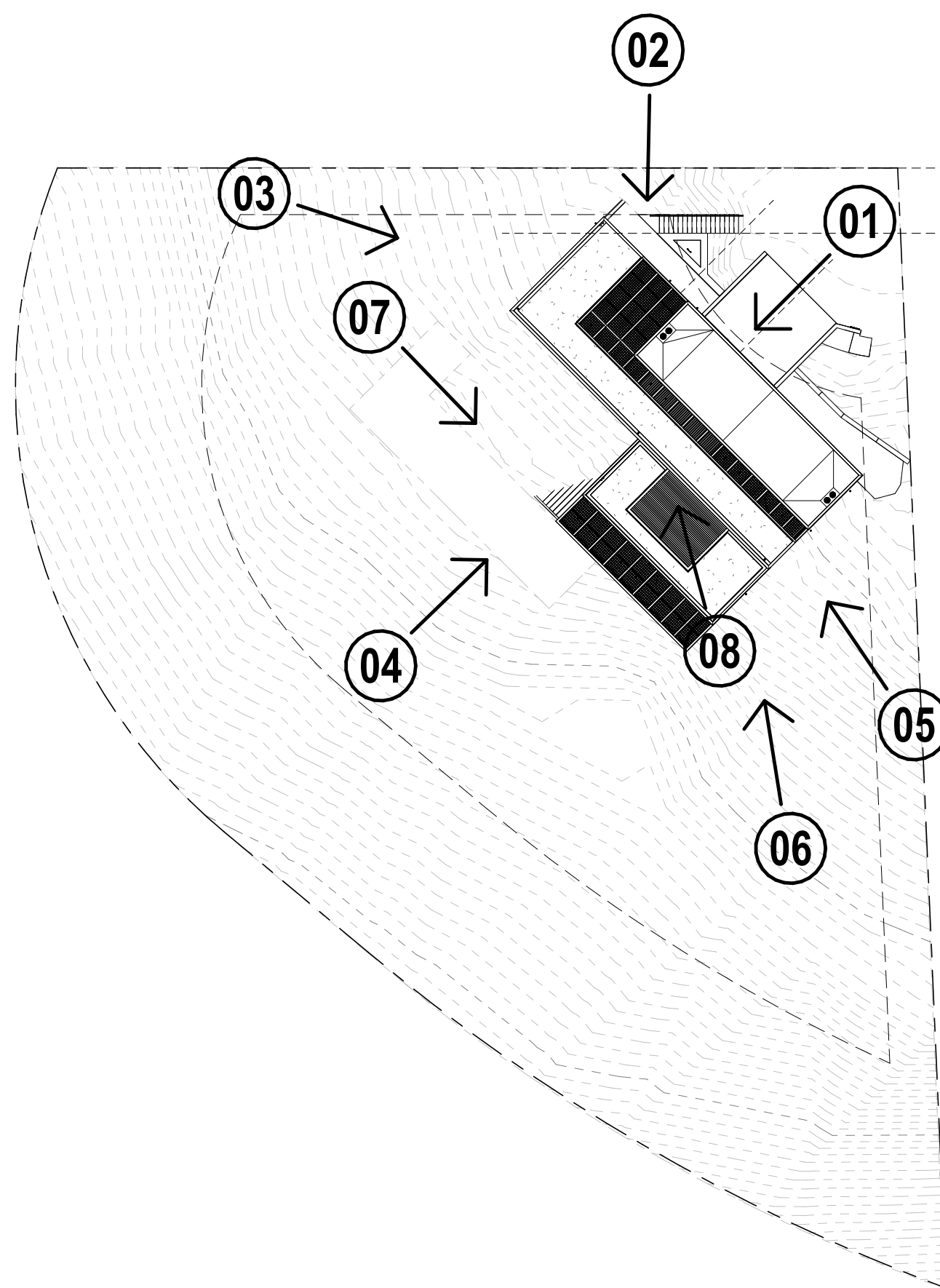
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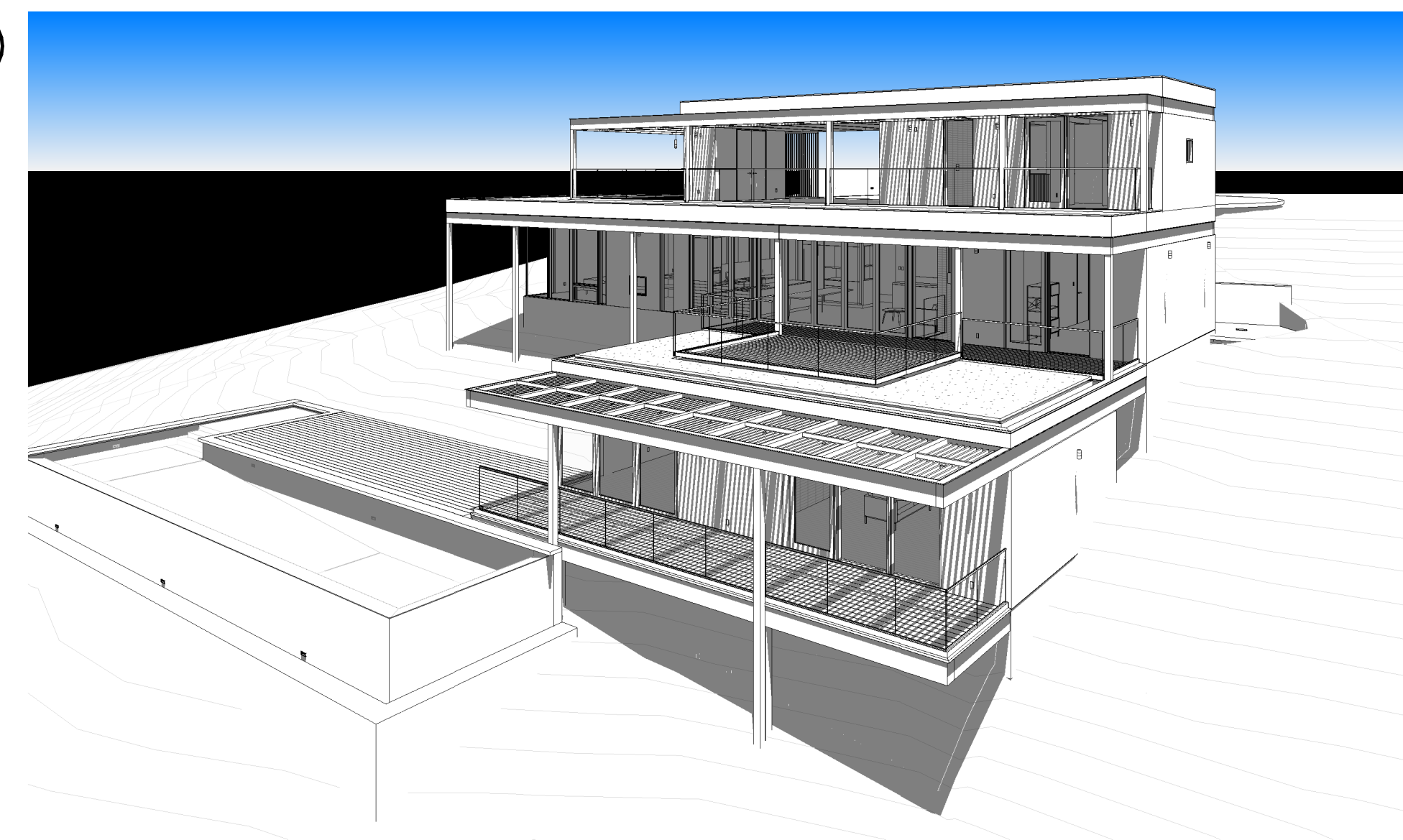
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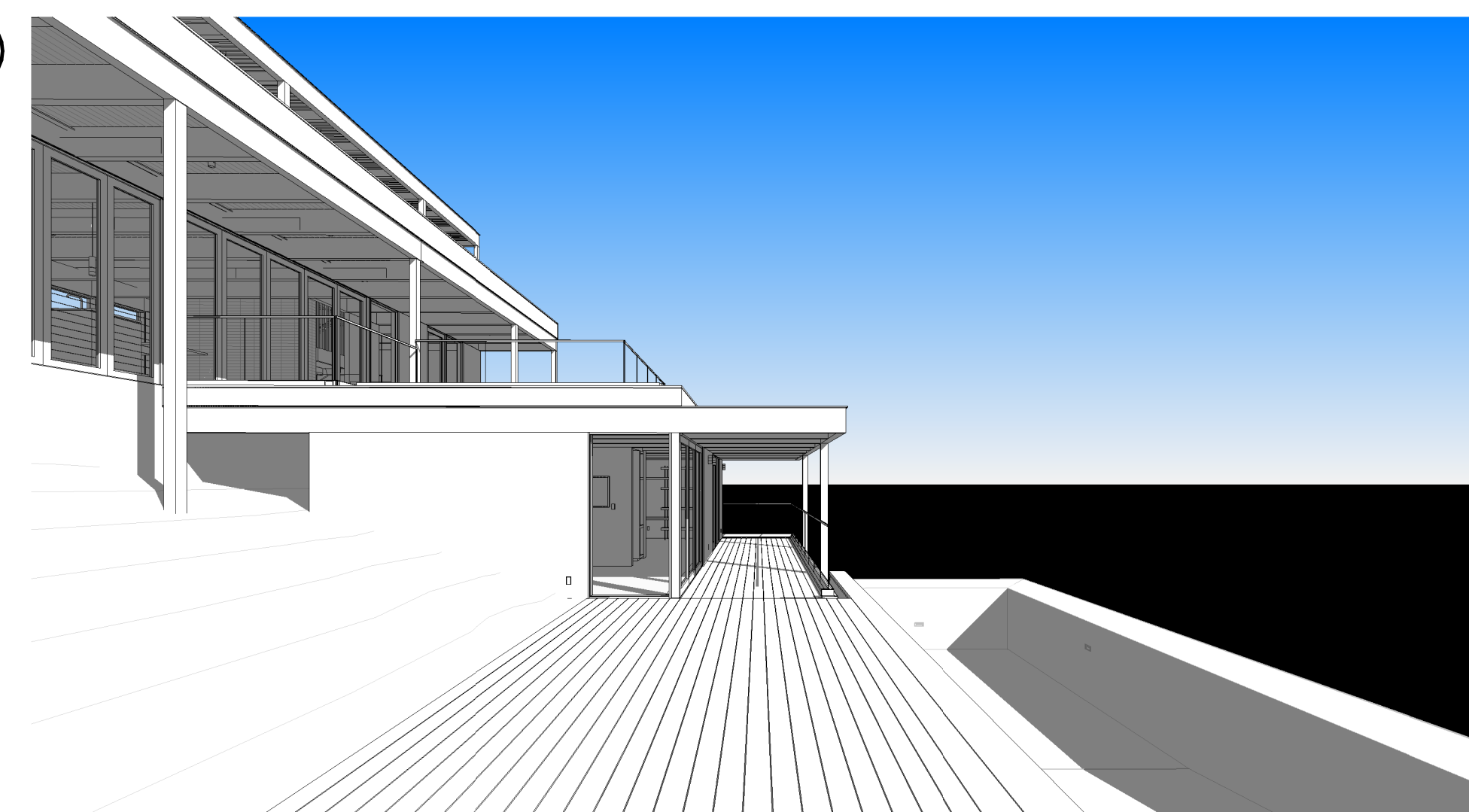
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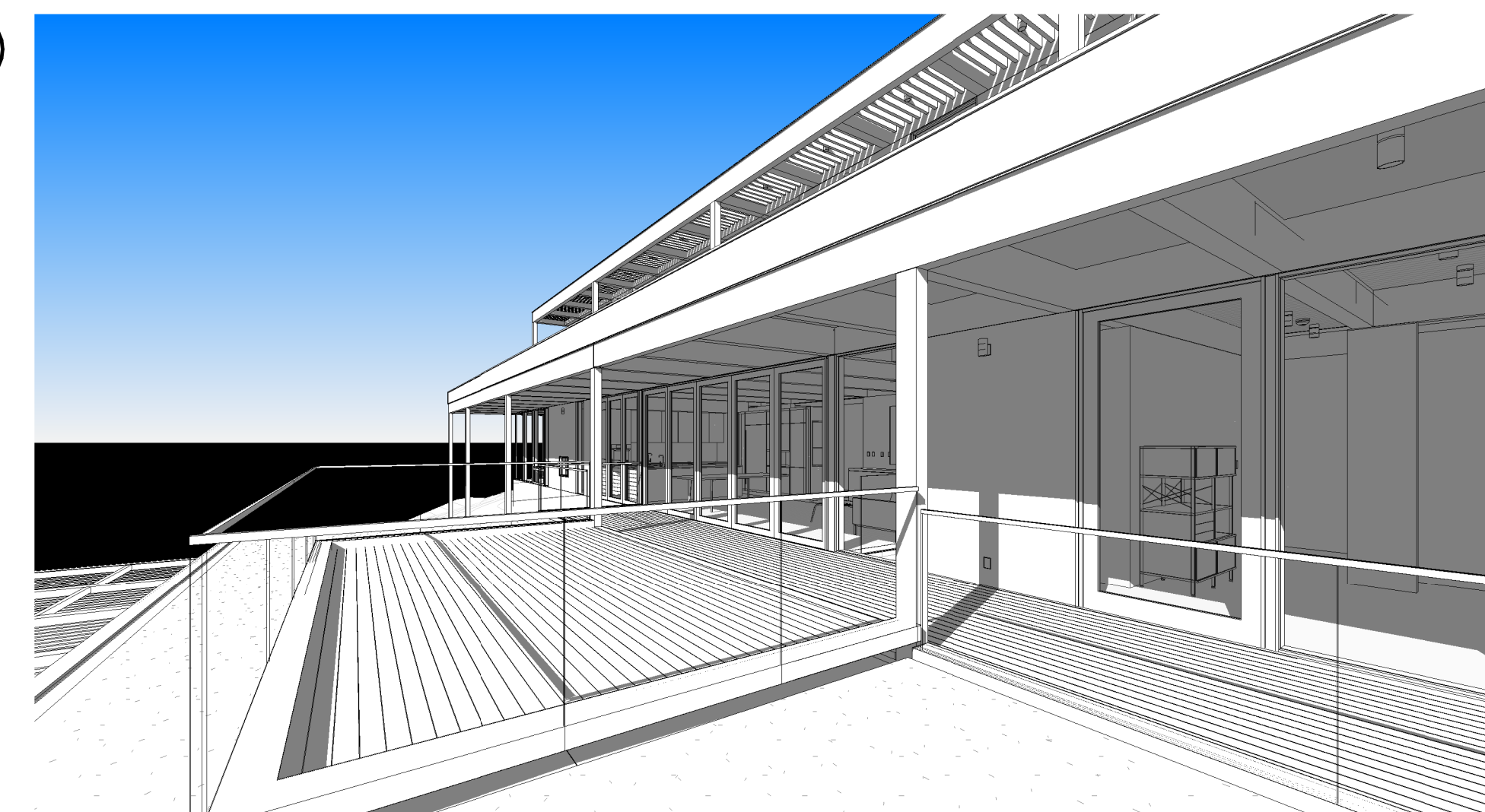
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06



07



08

01	11/27/19	Plan Check Submission	LB
NO	DATE	REASON FOR ISSUE	CHK

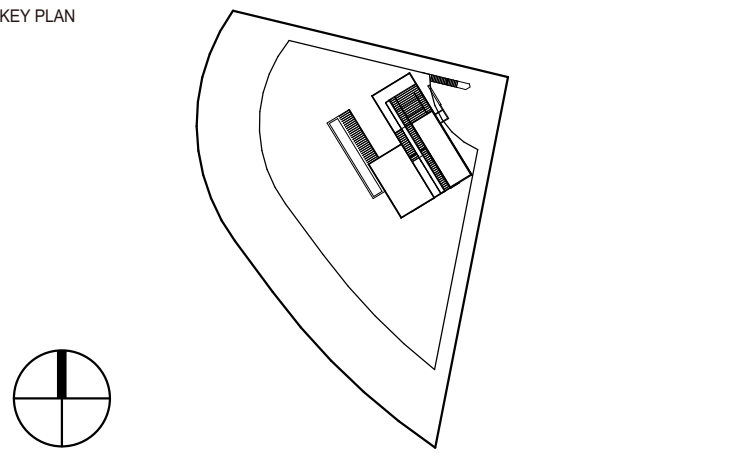
PERMIT SET

ARCHITECT
o.lbm
 972 Embarcadero Road, Palo Alto, CA 94303
 619.410.1432 lb@leonardbuendia.com

CONSULTANT

CONSULTANT

CLIENT
Patricia Dziuk



PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Exterior Views

PROJECT NUMBER	DATE
DZK-2018-01	11/27/2019
SCALE	
A-010	1" = 30'-0"

GENERAL INFORMATION	
01	Project Name: Infinity Residence
02	Calculation Description: Title 24 Analysis
03	Project Location: 4403 Alta Mira Drive
04	City: La Mesa
05	Zip Code: 91941
06	Climate Zone: C27
07	Software Version: EnergyPro 7.2
08	Building Type: Single Family
09	Front Orientation (deg/Cardinal): 90
10	Project Scope: Newly Constructed
11	Number of Dwelling Units: 3
12	Total Cond. Floor Area (ft²): 2800
13	Number of Zones: 3
14	Slab Area (ft²): 2363
15	Number of Stories: 3
16	Addition Cond. Floor Area (ft²): n/a
17	Natural Gas Available: Yes
18	Addition Slab Area (ft²): n/a
19	Glazing Percentage (%): 37.9%

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CE-C approved HERS provider.
03	This building incorporates one or more Special Features shown below

ENERGY USE SUMMARY				
04	05	06	07	08
Energy Use (kWh/yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	6.13	5.50	0.63	10.3%
Space Cooling	1.37	3.33	-1.96	-143.1%
IAQ Ventilation	1.00	1.00	0.00	0.0%
Water Heating	6.17	3.25	2.92	47.3%
Photovoltaic Offset	0.00	0.00	0.00	0.0%
Compliance Energy Total	14.67	13.08	1.59	10.9%

Registration Number: 219-P0100714220-000-000-000000-0000
CA Building Energy Efficiency Standards - 2016 Residential Compliance
Registration Date/Time: 2021-02-09 16:44:59
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HERS Provider: CalCERTS, Inc.
Report Generated at: 2021-02-09 11:53:04

FENESTRATION / GLAZING									
01	02	03	04	05	06	07	08	09	10
Name	Type	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft²)	U-factor	SHGC	Exterior Shading
(01) Window	Window	East Wall (Front-60)	---	---	1	8.0	0.34	0.31	Insect Screen (default)
(02) Window	Window	South Wall (L&R-150)	---	---	1	4.0	0.34	0.31	Insect Screen (default)
(F02) Window	Window	West Wall (Back-240)	---	---	1	30.0	0.34	0.31	Insect Screen (default)
(107) Door System	Window	West Wall (Back-240)	---	---	1	27.7	0.54	0.34	Insect Screen (default)
(F01) Window	Window	West Wall (Back-240)	---	---	1	24.0	0.34	0.31	Insect Screen (default)
(103) French Door	Window	North Wall (Right-330)	---	---	1	47.0	0.34	0.31	Insect Screen (default)
(05) Window	Window	East Wall 2 (Front-60)	---	---	1	13.0	0.34	0.31	Insect Screen (default)
(04) Window	Window	East Wall 2 (Front-60)	---	---	1	75.8	0.34	0.31	Insect Screen (default)
(03) Window	Window	East Wall 2 (Front-60)	---	---	1	12.0	0.34	0.31	Insect Screen (default)
(F13) Window	Window	South Wall 2 (Left-150)	---	---	1	49.5	0.34	0.31	Insect Screen (default)
(F10) Window	Window	West Wall 2 (Back-240)	---	---	1	33.8	0.34	0.31	Insect Screen (default)
(209) Door System	Window	West Wall 2 (Back-240)	7.6	9.0	0.493	33.7	0.54	0.34	Insect Screen (default)
(F09) Window	Window	West Wall 2 (Back-240)	---	---	1	36.0	0.34	0.31	Insect Screen (default)
(210) Door System	Window	West Wall 2 (Back-240)	31.0	9.0	0.272	75.8	0.54	0.34	Insect Screen (default)
(211) Door System	Window	West Wall 2 (Back-240)	13.5	9.0	0.024	75.8	0.54	0.34	Insect Screen (default)
(212) Door System	Window	West Wall 2 (Back-240)	---	---	1	75.8	0.54	0.34	Insect Screen (default)
(09) Window	Window	West Wall 2 (Back-240)	---	---	1	18.0	0.34	0.31	Insect Screen (default)
(08) Window	Window	West Wall 2 (Back-240)	---	---	1	3.1	0.34	0.31	Insect Screen (default)
(F5) Window	Window	West Wall 2 (Back-240)	---	---	1	11.3	0.34	0.31	Insect Screen (default)
(07) Window	Window	West Wall 2 (Back-240)	---	---	1	7.2	0.34	0.31	Insect Screen (default)
(F7) Window	Window	West Wall 2 (Back-240)	---	---	1	31.0	0.34	0.31	Insect Screen (default)
(F6) Window	Window	West Wall 2 (Back-240)	---	---	1	34.5	0.34	0.31	Insect Screen (default)
(F5) Window	Window	West Wall 2 (Back-240)	---	---	1	35.2	0.34	0.31	Insect Screen (default)
(F04) Window	Window	North Wall 2 (Right-330)	---	---	1	34.5	0.34	0.31	Insect Screen (default)
(06) Window	Window	North Wall 2 (Right-330)	---	---	1	24.5	0.34	0.31	Insect Screen (default)
(F8) Window 2	Window	North Wall 2 (Right-330)	---	---	1	7.0	0.34	0.31	Insect Screen (default)
(F12) Window	Window	West Wall 3 (Back-240)	---	---	1	30.0	0.34	0.31	Insect Screen (default)
(F11) Window	Window	West Wall 3 (Back-240)	---	---	1	32.0	0.34	0.31	Insect Screen (default)
(302) Door System	Window	West Wall 3 (Back-240)	13.0	7.6	0.32	31.8	0.54	0.34	Insect Screen (default)

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BUILDING ENVELOPE - HERS VERIFICATION			
01	02	03	04
Quality Insulation Installation (QI)	Quality Installation of Spray Foam Insulation	Building Envelope Air Leakage	CFM50
Not Required	Not Required	Not Required	n/a

WATER HEATING SYSTEMS					
01	02	03	04	05	06
Name	System Type	Distribution Type	Water Heater	Number of Heaters	Solar Fraction (%)
DHW Sys 1	DHW	Standard	DHW Heater 1 (1)	1	80.0%
DHW Sys 2	DHW	Standard	DHW Heater 2 (1)	1	0%

WATER HEATERS											
01	02	03	04	05	06	07	08	09	10	11	12
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Uniform Energy Factor / Efficiency	Input Rating / Pilot / Thermal Efficiency (Int/Ext)	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	First Hour Rating / Flow Rate	NEEA Heat Pump Brand / Model / Other	Tank Location or Ambient Condition
DHW Heater 1	Gas	Small Instantaneous	1	0	0.96 EF	<= 200 kBtu/h	R-0/R-0	0	n/a	n/a	n/a

WATER HEATERS											
01	02	03	04	05	06	07	08	09	10	11	12
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Uniform Energy Factor / Efficiency	Input Rating / Pilot / Thermal Efficiency (Int/Ext)	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	First Hour Rating / Flow Rate	NEEA Heat Pump Brand / Model / Other	Tank Location or Ambient Condition
DHW Heater 2	Gas	Small Instantaneous	1	0	0.96 EF	<= 200 kBtu/h	R-0/R-0	0	n/a	n/a	n/a

SPACE CONDITIONING SYSTEMS					
01	02	03	04	05	06
SC Sys Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name
(N) Hydronic Heating System 1	Other Heating and Cooling System	Heating Component 1	Cooling Component 1	HVAC Fan 1	- none -

HVAC - HEATING UNIT TYPES			
01	02	03	04
Name	System Type	Number of Units	Efficiency
Heating Component 1	Boiler	1	96 AFUE

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ENERGY DESIGN RATING			
Energy Design Rating (EDR) is an alternate way to express the energy performance of a building using a scoring system where 100 represents the energy performance of the Residential Energy Services (RESNET) reference home characterization of the 2006 International Energy Conservation Code (IECC) with California modeling assumptions. A score of zero represents the energy performance of a building that combines high levels of energy efficiency with renewable generation to "zero out" its TDV energy. Because EDR includes consideration of components not regulated by Title 24, Part 6 (such as domestic appliances and consumer electronics), it is not used to show compliance with Part 6 but may instead be used by local jurisdictions pursuing local ordinances under Title 24, Part 11 (CALGreen).	EDR of Standard Efficiency	EDR of Proposed Efficiency	EDR Value of Proposed PV + Battery
45.7	44.2	0.0	44.2
<input type="checkbox"/>	Design meets Tier 1 requirement of 15% or greater code compliance margin (CALGreen A4.203.1.2.1) and QI verification prerequisite.		
<input type="checkbox"/>	Design meets Tier 2 requirement of 30% or greater code compliance margin (CALGreen A4.203.1.2.2) and QI verification prerequisite.		
<input type="checkbox"/>	Design meets Zero Net Energy (ZNE) Design Designation requirement for Single Family in climate zone C27 (CALGreen A4.203.1.2.3) including on-site photovoltaic (PV) renewable energy generation sufficient to achieve a Final Energy Design Rating (EDR) of zero or less. The PV System and QI must be verified.		

REQUIRED SPECIAL FEATURES	
Window overhangs and/or fins	Exposed slab floor in conditioned zone
Solar water heating credit, single family building	Special feature and additional documentation

HERS FEATURE SUMMARY				
01	02	03	04	05
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones
Infinity Residence	2800	1	3	3

BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Infinity Residence	2800	1	3	3	0	2

Registration Number: 219-P0100714220-000-000-000000-0000
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OPAQUE SURFACE CONSTRUCTIONS									
01	02	03	04	05	06	07	08	09	10
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Winter Design U-factor	Assembly Layers	08	09	10
(301) Door System	Window	West Wall 3 (Back-240)	---	---	1	105.5	0.54	0.34	Insect Screen (default)
(305) French Door	Window	North Wall 3 (Right-330)	---	---	1	33.0	0.34	0.31	Insect Screen (default)

OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft²)	U-factor
(201) Door	North Wall 2	36.0	0.70

OVERHANGS AND FINS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Window	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Top Up	Dist R	Bot Up
(209) Door System	8	0.1	0	0	0	0	0	0	0	0	0	0	0
(210) Door System	8	0.1	0	0	0	0	0	0	0	0	0	0	0
(211) Door System	8	0.1	0	0	0	0	0	0	0	0	0	0	0
(302) Door System	8	0.1	0	0	0	0	0	0	0	0	0	0	0

SLAB FLOORS									
01	02	03	04	05	06	07			
Name	Zone	Area (ft²)	Perimeter (ft)	Edge Insul. R-value & Depth	Carpeted Fraction	Heated			
Slab-on-Grade	(N) Lower Level Floor Area	1562	229	None	0	No			
Slab-on-Grade 2	(N) Pool Terrace Floor Area	801	229	None	0	No			

Registration Number: 219-P0100714220-000-000-000000-0000
CA Building Energy Efficiency Standards - 2016 Residential Compliance
Registration Date/Time: 2021-02-09 16:44:59
Report Version: CF-1R-01162019-1149
HERS Provider: CalCERTS, Inc.
Report Generated at: 2021-02-09 11:53:04

IAQ (Indoor Air Quality) FANS					
01	02	03	04	05	06
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness(%)	HERS Verification
Sfam IAQVerRpt	58	0.25	Default	0	Required

PROJECT NOTES
THIS TITLE 24 ENERGY ANALYSIS IS FOR ENERGY CODE COMPLIANCE PURPOSES ONLY. FINAL SPECIFICATION & LIABILITY OF EQUIPMENT & INSTALLATION MUST BE DONE BY A LICENSED MECHANICAL CONTRACTOR, PERFORMING MANUAL, J.D. & S. CALCULATIONS

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT											
I certify that this Certificate of Compliance documentation is accurate and complete.											
Documentation Author Name: David Schneider						Documentation Author Signature: <i>David Schneider</i>					
Company: Title 24 Energy Consultants (CEPE)						Signature Date: 2021-02-09 11:54:19					
Address: 6530 Salazar Street						CEAHERS Certification Identification (if applicable): R08-08-261 / NR08-08-540					
City/State/Zip: San Diego, CA 92111						Phone: 619-504-5610					

RESPONSIBLE PERSON'S DECLARATION STATEMENT											
I certify the following under penalty of perjury, under the laws of the State of California:											
1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.											
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.											
3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.											
Responsible Designer Name: Leonardo Buendia						Responsible Designer Signature: <i>Leonardo Buendia</i>					
Company: o.lbm						Date Signed: 2021-02-09 16:44:59					
Address: 972 Embarcadero Road						License: C-34431					
City/State/Zip: Palo Alto, CA 94303						Phone: 619-410-1432					

Registration Number: 219-P0100714220-000-000-000000-0000
CA Building Energy Efficiency Standards - 2016 Residential Compliance
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ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
(N) Street Level Floor Area	Conditioned	(N) Hydronic Heating System 1	437	8	DHW Sys 1	DHW Sys 2
(N) Lower Level Floor Area	Conditioned	(N) Hydronic Heating System 1	1562	9	DHW Sys 1	DHW Sys 2
(N) Pool Terrace Floor Area	Conditioned	(N) Hydronic Heating System 1	801	8	DHW Sys 1	DHW Sys 2

OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window & Door Area (ft²)	TIR (deg)
East Wall	(N) Street Level Floor Area	R-21 Wall	60	Front	240	8	90
South Wall	(N) Street Level Floor Area	R-21 Wall	150	Left	146	4	90
West Wall	(N) Street Level Floor Area	R-21 Wall	240	Back	312	81.7	90
North Wall	(N) Street Level Floor Area	R-21 Wall	330	Right	146	47	90
Interior Floor	(N) Street Level Floor Area >>> (N) Lower Level Floor Area	Interior R-19 Floor	n/a	n/a	437	n/a	n/a
East Wall 2	(N) Lower Level Floor Area	R-21 Wall	60	Front	740	100.8	90
South Wall 2	(N) Lower Level Floor Area	R-21 Wall	150	Left	207	49.54	90
West Wall 2	(N) Lower Level Floor Area	R-21 Wall	240	Back	740	471.255	90
North Wall 2	(N) Lower Level Floor Area	R-21 Wall	330	Right	207	102	90
East Wall 3	(N) Pool Terrace Floor Area	8 CMU Wall +R10 / R5	60	Front	36		

RESIDENTIAL MEASURES SUMMARY							RMS-1
Project Name <i>Infinity Residence</i>	Building Type <input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Addition Alone <input type="checkbox"/> Multi-Family <input type="checkbox"/> Existing <input type="checkbox"/> Addition/Alteration	Date 2/9/2021					
Project Address 4403 Alta Mira Drive La Mesa	California Energy Climate Zone CA Climate Zone 07	Total Cond. Floor Area 2,800	Addition n/a	# of Units 1			
INSULATION							
Construction Type	Area (sq ft)	Special Features	Status				
Demising	Wood Framed w/o Craw Space	R 19	437	New			
Wall	Wood Framed	R 21	2,039	New			
Roof	Wood Framed Rafter	R 30	437	New			
Slab	Unheated Slab-on-Grade	-no insulation	2,363	Perim = 45ft	New		
Door	Clearance Door	-no insulation	36	New			
Roof	Wood Framed Rafter	R 30	761	New			
Wall	Hollow Unit Masonry	-no insulation	364	ASH-R-15.0	New		
Wall	Hollow Unit Masonry	-no insulation	319	ASH-R-10.0	New		
FENESTRATION Total Area: 1,060 Glazing Percentage: 37.9% New/Altered Average U-Factor: 0.42							
Orientation	Area (sq ft)	U-Fac	SHGC	Overhang	Sidelines	Exterior Shades	Status
Front (NE)	108.8	0.340	0.31	none	none	Bug Screen	New
Left (SE)	53.5	0.340	0.31	none	none	Bug Screen	New
Rear (SW)	326.0	0.340	0.31	none	none	Bug Screen	New
Rear (SW)	209.0	0.340	0.34	none	none	Bug Screen	New
Right (NW)	146.0	0.340	0.31	none	none	Bug Screen	New
Rear (SW)	217.0	0.340	0.34	8.0	none	Bug Screen	New
HVAC SYSTEMS							
Q _t	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status	
1	Hydronic Boiler	see DHW	No Cooling	14.0 SEER	Setback	New	
HVAC DISTRIBUTION							
Location	Heating	Cooling	Duct Location	Duct R-Value	Status		
(N) Hydronic Heating System	Radiant Floor	Ductless	n/a	n/a	New		
WATER HEATING							
Q _t	Type	Gallons	Min. Eff	Distribution	Status		
1	Small Instantaneous Gas	0	0.96	Standard	New		
1	Small Instantaneous Gas	0	0.96	Standard	New		
1	Small Instantaneous Gas	0	96.0%	Hydronic	New		
EnergyPro 7.2 by EnergySoft User Number: 1562A ID: 19-073 Page 12 of 18							

RESIDENTIAL MEASURES SUMMARY							RMS-1
Project Name <i>Infinity Residence</i>	Building Type <input checked="" type="checkbox"/> Single Family <input type="checkbox"/> Addition Alone <input type="checkbox"/> Multi-Family <input type="checkbox"/> Existing <input type="checkbox"/> Addition/Alteration	Date 2/9/2021					
Project Address 4403 Alta Mira Drive La Mesa	California Energy Climate Zone CA Climate Zone 07	Total Cond. Floor Area 2,800	Addition n/a	# of Units 1			
INSULATION							
Construction Type	Area (sq ft)	Special Features	Status				
Roof	Wood Framed Rafter	R 30	801	New			
FENESTRATION							
Orientation	Area (sq ft)	U-Fac	SHGC	Overhang	Sidelines	Exterior Shades	Status
Total Area: 1,060 Glazing Percentage: 37.9% New/Altered Average U-Factor: 0.42							
HVAC SYSTEMS							
HVAC DISTRIBUTION							
WATER HEATING							
EnergyPro 7.2 by EnergySoft User Number: 1562A ID: 19-073 Page 13 of 18							



2016 Low-Rise Residential Mandatory Measures Summary

NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. Exceptions may apply.

Section	Measure
§ 110.0(i)(1)	Air Leakage. Manufactured fenestration, exterior doors, and exterior pool doors must limit air leakage to 0.3 cfm/ft ² or less when tested per AIEC-400 or ASTM E283 or AIAA/IDA/ICC/CA 110.5.24/405/2011.
§ 110.0(i)(5)	Labeling. Fenestration products must have a label meeting the requirements of § 110.11(A).
§ 110.0(i)(6)	Field fabricated exterior doors and fenestration products must meet the requirements of SHGC values from TABLES 110.0(A) and 110.0-B for compliance and must be caulked and/or weatherstripped.
§ 110.7	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.0(i)(8)	Insulation Certification by Manufacturers. Insulation specified or installed must meet Standards for Insulating Material.
§ 110.0(i)(9)	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) when the installation of a cool roof is specified on the C.F.R.
§ 110.8(j)	Radiant Barrier. A radiant barrier must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(i)(9)	Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling, or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and conduction as specified in § 110.7, including but not limited to blocking insulation either above or below the roof deck or on top of a truss ceiling.
§ 150.0(i)(b)	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(i)(c)	Above Grade Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less (R-19 in 2x6 or U-factor of 0.074 or less). Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102, equivalent to an installed value of R-13 in a wood framed assembly.
§ 150.0(i)(d)	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.
§ 150.0(i)(f)	Slab Edge Insulation. Slab edge insulation must meet at least of the following: have a water absorption ratio, for the insulation material alone without facings, no greater than 0.3%; have a water vapor permeance no greater than 2.0 perm-inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(i).
§ 150.0(i)(g)	Vapor Retarder. In Climate Zones 1-16, the earth floor or unheated crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl spaces for buildings complying with the exception to § 150.0(i).
§ 150.0(i)(2)	Vapor Retarder. In Climate Zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58.
§ 150.0(i)(10)	Fireplaces, Decorative Gas Appliances, and Gas Log Measures:
§ 150.0(i)(10)(A)	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(i)(10)(B)	Combustion Intake. Masonry or factory-built fireplaces must have a combustion intake system which is at least six square inches in area and is equipped with a readily accessible, operable, and light-tight damper or combustion-air control device.
§ 150.0(i)(10)(C)	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.
§ 150.0(i)(2)	Pilot Light. Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited.
Space Conditioning, Water Heating, and Plumbing System Measures:	
§ 110.0-§ 110.3	Certification, Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the Energy Commission.
§ 110.2(a)	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in TABLE 110.2-A through TABLE 110.2-K.
§ 110.2(b)	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone, and in which the cut-on temperature for compression heating is higher than the cut-off temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c)	Thermostats. All unitary heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.
§ 110.3(c)(5)	Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)(5).
§ 110.3	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu/hr (2 kW) must have isolation valves with hose bibbs or other fittings on both cold water and hot water lines of water heating systems to allow for water tank flushing when the valves are closed.
§ 110.5	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas, fan-type central furnaces, household cooking appliances (appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt), and pool and spa heaters.
§ 150.0(h)(1)	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; SMACNA Residential Comfort System Installation Standards Manual; or ACCA Manual J using design conditions specified in § 150.0(h)(2).



2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(h)(3A)	Clearances. Installed air conditioner and heat pump outdoor condensing units must have a clearance of at least 5 feet from the outside of any other vent.
§ 150.0(h)(3B)	Liquid Line Drain. Installed air conditioner and heat pump systems must be equipped with liquid line filter driers if required, as specified by manufacturer's instructions.
§ 150.0(i)(1)	Storage Tank Insulation. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have a minimum insulation of R-15. Insulation must be installed in accordance with the requirements of TABLE 120.3-A.
§ 150.0(i)(2A)	Water piping and cooling system line insulation. For domestic hot water system piping, whether buried or unburied, all of the following must be insulated according to the requirements of TABLE 120.3-A: the first 5 feet of hot and cold water pipes from the storage tank, all piping with a nominal diameter of 1/4 inch or larger; all piping associated with a domestic hot water recirculation system regardless of the pipe diameter; piping from the heating source to storage tank or between tanks; piping buried below grade; and all hot water pipes from the heating source to kitchen fixtures.
§ 150.0(i)(2B)	Water piping and cooling system line insulation. All domestic hot water pipes that are buried below grade must be installed in a water proof and non-crushable casing or sleeve.
§ 150.0(i)(2C)	Water piping and cooling system line insulation. Pipes for cooling system lines must be insulated as specified in § 150.0(i)(2A). Distribution piping for steam and hydronic heating systems or hot water systems must meet the requirements in TABLE 120.3-A.
§ 150.0(i)(3)	Insulation Protection. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.
§ 150.0(i)(3A)	Insulation Protection. Insulation exposed to weather must be installed with a cover suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. The cover must be water retardant and provide shielding from solar radiation that can cause degradation of the material.
§ 150.0(i)(3B)	Insulation Protection. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must have a Class I or Class II vapor retarder.
§ 150.0(i)(1)	Gas or Propane Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of the following: a 1/2" electrical racepipe within 3 feet of the water heater, a Category II or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed; a condensate drain that is no more than 2 inches higher than the base of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu/hr.
§ 150.0(i)(2)	Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)(5).
§ 150.0(i)(3)	Solar Water-Heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC) or by a listing agency that is approved by the Executive Director.
Ducts and Fans Measures:	
§ 110.0(i)(3)	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC), if a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets the requirements.
§ 150.0(i)(1)	CMC Compliance. All air-distribution system ducts and plenums must be installed, sealed, and insulated to meet the requirements of CMC §§ 601.0, 602.0, 603.0, 604.0, 605.0 and ANSISMACNA 006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply and return air ducts and plenums must be insulated to a minimum installed level of R-6.0 (or higher if required by CMC § 605.0) or a minimum installed level of R-4.2 when entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.6). Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or a tested sealant that meets the requirements of UL 723. In mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms must not be compressed to cause reductions in the cross-sectional area of the ducts.
§ 150.0(i)(2)	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures, joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(i)(3)	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(i)(7)	Backdraft Dampers. All fan systems that exchange air between the conditioned space and the outside of the building must have backdraft or automatic dampers.
§ 150.0(i)(8)	Gravily Ventilation Dampers. Gravily ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outdoor air openings and elevator shaft vents.
§ 150.0(i)(9)	Protection of Insulation. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.
§ 150.0(i)(10)	Porous Inner Core Flex Duct. Porous inner core flex duct must have a non-porous layer between the inner core and outer vapor barrier.
§ 150.0(i)(11)	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with § 150.0(i)(1) and Reference Residential Appendix RA3.
§ 150.0(i)(12)	Air Filtration. Mechanical systems that supply air to an occupiable space through ductwork exceeding 10 feet in length and through a thermal conditioning component, except evaporative coolers, must be provided with an air filter device that meet the design, installation, efficiency, pressure drop, and labeling requirements of § 150.0(i)(12).



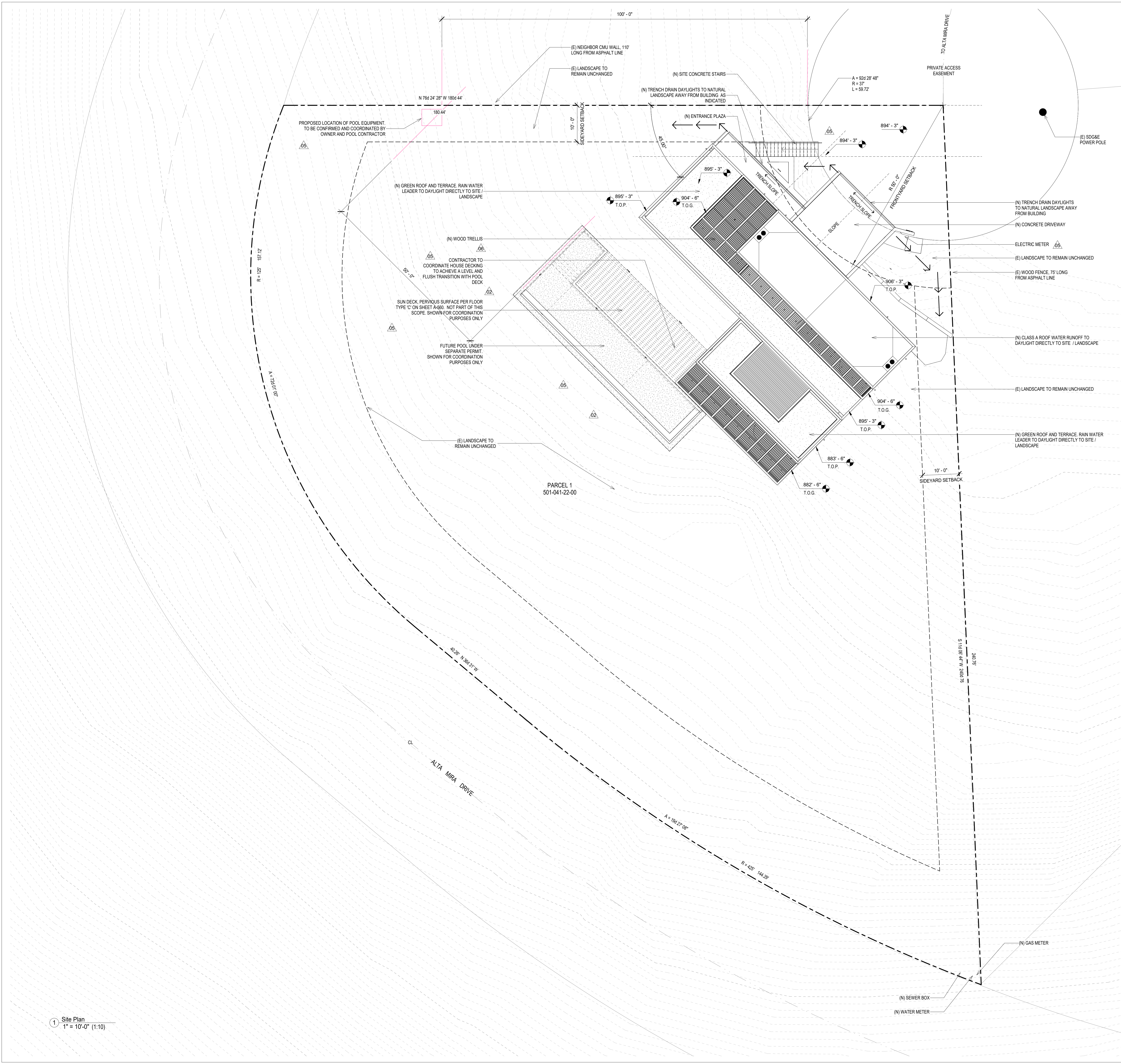
2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(i)(13)	Duct System Sealing and Air Filter Grille Sizing. Space conditioning systems that use forced air ducts to supply cooling to an occupiable space must have a hole for the placement of a static pressure probe (SPSP), or a permanently installed static pressure probe (PSPFP) in the supply plenum. The space conditioning system must also demonstrate airflow ≥ 250 CFM per ton of nominal cooling capacity through the return grille, and an air-leakage unit fan efficiency ≤ 0.58 (WCFM) as confirmed by field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.3. This applies to both single zone central forced air systems and every zone for zonally controlled central forced air systems.
§ 150.0(i)(4)	Ventilation for Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2. Neither window nor continuous operation of central forced air system air handlers used in central fan integrated ventilation systems are permissible methods of providing building ventilation.
§ 150.0(i)(A)	Field Verification and Diagnostic Testing. Whole-building ventilation airflow must be confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.7.
Pool and Spa Systems and Equipment Measures:	
§ 110.4(A)	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations, an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.
§ 110.4(B)(1)	Piping. Any pool or spa heating equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(B)(2)	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(B)(3)	Directional inlets and time switches for pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5	Pilot Lights. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(i)(g)	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.
Lighting Measures:	
§ 110.9	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.
§ 110.9(a)	JAS High Efficiency Light Sources. To qualify as a JAS high efficiency light source for compliance with § 150.0(k), a residential light source must be certified to the Energy Commission according to Reference Joint Appendix JAS.
§ 150.0(i)(A)	Luminaire Efficacy. All installed luminaires must be high efficacy in accordance with TABLE 150.0-A.
§ 150.0(i)(B)	Blank Electrical Boxes. The number of electrical boxes that are more than 5 feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.
§ 150.0(i)(C)	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for insulation control (IC) labeling, air leakage, sealing, maintenance, and socket and light source as described in § 150.0(i)(C). A JAS-2016-E light source rated for elevated temperature must be installed in all recessed downlight luminaires in ceilings.
§ 150.0(i)(D)	Electronic Ballasts. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(i)(E)	Night Lights. Permanently installed night lights and night lights integral to installed luminaires or exhaust fans must not be consumed more than 5 watts of power per luminaire or exhaust fan as determined in accordance with § 130.0(c). Night lights must be used to be controlled by vacancy sensors.
§ 150.0(i)(F)	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).
§ 150.0(i)(G)	Screen based luminaires. Screen based luminaires must not be recessed downlight luminaires in ceilings and must contain lamps that comply with Reference Joint Appendix JAS. Installed lamps must be marked with "JAS-2016-E" or "JAS-2016-E" as specified in Reference Joint Appendix JAS.
§ 150.0(i)(H)	Enclosed Luminaires. Light sources installed in enclosed luminaires must be JAS compliant and must be marked with "JAS-2016-E."
§ 150.0(i)(2A)	Interior Switches and Controls. All forward phase out dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(i)(2B)	Interior Switches and Controls. Exhaust fans must be switched separately from lighting systems.
§ 150.0(i)(2C)	Interior Switches and Controls. Luminaires must be switched with readily accessible controls that permit the luminaires to be manually switched ON and OFF.
§ 150.0(i)(2D)	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(i)(2E)	Interior Switches and Controls. No control must bypass a dimmer or vacancy sensor function if the control is installed to comply with § 150.0(k).
§ 150.0(i)(2F)	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(i)(2G)	Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with dimmer requirements if it functions as a dimmer according to § 110.9; meets the Installation Certificate requirements of § 130.4; meets the EMCS requirements of § 130.5(f); and meets all other requirements in § 150.0(i)(2).
§ 150.0(i)(2H)	Interior Switches and Controls. An EMCS may be used to comply with vacancy sensor requirements in § 150.0(i) if it meets all of the following: functions as a vacancy sensor according to § 110.9; the Installation Certificate requirements of § 130.4; the EMCS requirements of § 130.5(f); and all other requirements in § 150.0(i)(2).
§ 150.0(i)(2I)	Interior Switches and Controls. A multiscene programmable controller may be used to comply with dimmer requirements in § 150.0(i) if it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(i)(2).



2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(i)(2)	Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by a vacancy sensor.
§ 150.0(i)(2K)	Interior Switches and Controls. Dimmers or vacancy sensors must control all luminaires require to have light sources compliant with Reference Joint Appendix JAS, except luminaires in closets less than 70 square feet and unannexed hallways.
§ 150.0(i)(2L)	Interior Switches and Controls. Undercabinet lighting must be switched separately from other lighting systems.
§ 150.0(i)(3A)	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must meet the requirement in item § 150.0(i)(3A) (ON and OFF switch) and the requirements in other item § 150.0(i)(3A) (photocell and motion sensor) or item § 150.0(i)(3A) (photo control and automatic time switch control, astronomical time clock, or EMCS).
§ 150.0(i)(3B)	Residential Outdoor Lighting. For low-rise multifamily residential buildings, outdoor lighting for private patios, entrances, balconies, and porches; and outdoor lighting for residential parking lots and residential carports with less than eight vehicles per site must comply with either § 150.0(i)(3A) or with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(i)(3C)	Residential Outdoor Lighting. For low-rise multifamily residential buildings with four or more dwelling units, outdoor lighting not regulated by § 150.0(i)(3B) or § 150.0(i)(3D) must comply with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(i)(3D)	Residential Outdoor Lighting. Outdoor lighting for residential parking lots and residential carports with a total of eight or more vehicles per site must comply with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7, and 141.0.
§ 150.0(i)(4)	Internally illuminated address signs. Internally illuminated address signs must comply with § 140.8; or must consume no more than 5 watts of power as determined according to § 130.0(c).
§ 150.0(i)(5)	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.8, and 141.0.
§ 150.0(i)(6A)	Interior Common Areas of Low-rise Multi-Family Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building must be high efficacy luminaires and controlled by an occupant sensor.
§ 150.0(i)(6B)	Interior Common Areas of Low-rise Multi-Family Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building equals more than 20 percent of the floor area, permanently installed lighting in that building must: <ul style="list-style-type: none"> 1. Comply with the applicable requirements in §§ 110.9, 130.0, 130.1, 140.8 and 141.0; and 2. Lighting installed in corridors and stairwells must be controlled by occupant sensors that reduce the lighting power in each space by at least 50 percent. The occupant sensors must be capable of turning the light fully on and off from all designed paths of ingress and egress.
Solar Ready Buildings:	
§ 110.10(a)(1)	Single Family Residences. Single family residences located in subdivisions with ten or more single family residences and where the application for a tentative subdivision map for the residences has been deemed complete by the endorsement agency must comply with the requirements of § 110.10(b) through § 110.10(d).
§ 110.10(a)(2)	Low-rise Multi-Family Buildings. Low-rise multi-family buildings must comply with the requirements of § 110.10(b) through § 110.10(d).
§ 110.10(b)	Minimum Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 8 or other Parts of Title 24 or any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 100 square feet for buildings with roof areas greater than 10,000 square feet. For single family residences the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. For low-rise multi-family buildings the solar zone must be located on the roof or overhang of the building, or on the roof or overhang of another structure located within 250 feet of the building, or on covered parking installed with the building project, and have a total area no less than 15 percent of the total roof area of the building excluding any skylight areas.
§ 110.10(b)(2)	Orientation. All sections of the solar zone located on steep-sloped roofs must be oriented between 110 degrees and 270 degrees of true north.
§ 110.10(b)(3A)	Shading. The solar zone must not contain any obstructions, including but not limited to vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)(3B)	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the distance, measured in the horizontal plane, of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)(4)	Structural Design Loads on Construction Documents. For areas of the roof designated as solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c)	Interconnection Pathways. The construction documents must indicate a location for inverters and metering equipment and a pathway for routing of conductors from the solar zone to the point of interconnection with the electrical service for single family residences the point of interconnection will be the main service panel, and a pathway for routing of plumbing from the solar zone to the water-heating system.
§ 110.10(d)	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b) through § 110.10(c) must be provided to the occupant.
§ 110.10(e)	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§	



- SITE PLAN NOTES**
- SOIL CLASSIFICATION: PRIOR TO FOUNDATION INSPECTION, SOILS COMPLIANCE SHALL BE CHECKED IN ACCORDANCE WITH SECTION 1803 OF THE 2015 IBC. IF THE BUILDING OFFICIAL SUSPECTS EXPANSIVE SOIL, THE BUILDING DEPARTMENT MAY REQUIRE A SOILS REPORT WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO:
 - A) A PLOT SHOWING THE LOCATION OF ALL BORINGS AND/OR EXCAVATIONS
 - B) A COMPLETE RECORD OF THE SOIL BORING AND PENETRATION TEST LOGS AND SOIL SAMPLES
 - C) A RECORD OF THE SOIL PROFILE
 - D) RECOMMENDATIONS FOR FOUNDATION TYPE AND DESIGN CRITERIA, INCLUDING BUT NOT LIMITED TO BEARING CAPACITY OF NATURAL OR COMPACTED SOIL, PROVISIONS TO MITIGATE THE EFFECTS OF EXPANSIVE SOILS, MITIGATION OF THE EFFECTS OF LIQUEFACTION, DIFFERENTIAL SETTLEMENT AND VARYING SOIL STRENGTH, AND THE EFFECTS OF ADJACENT LOADS
 - E) EXPECTED TOTAL AND DIFFERENTIAL SETTLEMENT
 - F) DEEP FOUNDATION INFORMATION IN ACCORDANCE WITH SECTION 1803.5.5 OF THE 2015 IBC
 - G) SPECIAL DESIGN AND CONSTRUCTION PROVISIONS FOR FOOTINGS OR FOUNDATIONS FOUNDED ON EXPANSIVE SOILS, AS NECESSARY
 - H) COMPACTED FILL MATERIAL PROPERTIES AND TESTING IN ACCORDANCE WITH SECTION 1803.5.8 OF THE 2015 IBC
 - I) CONTROLLED LOW-STRENGTH MATERIAL PROPERTIES AND TESTING IN ACCORDANCE WITH SECTION 1803.5.9 OF THE 2015 IBC
 THE INSPECTOR WILL RECHECK FOR EXPANSIVE SOILS AND/OR GRADING REQUIREMENTS AT THE FIRST FOUNDATION INSPECTION
 - EXCAVATIONS AND FILLS: (2015 IBC, SEC. 1804.1)
 - A) EXCAVATIONS OR FILLS FOR BUILDINGS OR STRUCTURES SHALL BE SO CONSTRUCTED OR PROTECTED THAT THEY DO NOT ENDANGER LIFE OR PROPERTY. STUMPS AND ROOTS SHALL BE REMOVED FROM THE SOIL TO A DEPTH OF AT LEAST 12 INCHES BELOW THE SURFACE OF THE GROUND IN THE AREA TO BE OCCUPIED BY THE BUILDING. WOOD FORMS WHICH HAVE BEEN USED IN PLACING CONCRETE, IF WITHIN THE GROUND OR BETWEEN FOUNDATION SILLS AND THE GROUND, SHALL BE REMOVED BEFORE A BUILDING IS OCCUPIED OR USED FOR ANY PURPOSE. BEFORE COMPLETION, LOOSE OR CASUAL WOOD SHALL BE REMOVED FROM DIRECT CONTACT WITH THE GROUND UNDER THE BUILDING.
 - B) SLOPES FOR PERMANENT FILLS SHALL NOT BE STEEPER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL (50% SLOPE). CUT SLOPES FOR PERMANENT EXCAVATIONS SHALL NOT BE STEEPER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL (50% SLOPE).
 - C) NO FILL OR OTHER SURCHARGE LOADS SHALL BE PLACED ADJACENT TO ANY BUILDING OR STRUCTURE UNLESS SUCH BUILDING OR STRUCTURE IS CAPABLE OF WITHSTANDING THE ADDITIONAL LOADS CAUSED BY THE FILL OR SURCHARGE
 - D) EXISTING FOOTINGS OR FOUNDATIONS THAT MAY BE AFFECTED BY ANY EXCAVATION SHALL BE UNDERPINNED ADEQUATELY OR OTHERWISE PROTECTED AGAINST LATERAL MOVEMENT
 - E) FILLS TO BE USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL COMPLY WITH SECTION 1804.5 (2015 IBC) SPECIAL INSPECTIONS OF COMPACTED FILL SHALL BE IN ACCORDANCE WITH SECTION 1704.7 (2015 IBC)
 PROPOSED PROJECT WILL REQUIRE LESS THAN 200 OR LESS CUBIC YARDS OF EARTH MOVED AND CUTS OR FILLS WILL NOT EXCEED 8 FEET IN DEPTH.
 - BEST MANAGEMENT PRACTICES (BMP): THE OWNER/ CONTRACTOR IS RESPONSIBLE TO IMPLEMENT THE PROPER BMP'S TO CONTROL SOIL EROSION AND DISCHARGES OF SEDIMENT AND OTHER POLLUTANTS FROM CONSTRUCTION SITES. SEE PLOT PLAN FOR BMP'S SELECTED FOR THIS PROJECT AS WELL AS CURRENT STORM WATER QUALITY NOTES.
 - CONTRACTOR TO VERIFY ALL EXISTING SERVICE LINES AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORK.
- SHEET SPECIFIC NOTES:**
- ROOFING SHALL HAVE A CLASS "A" FIRE RATING PER COUNTY BUILDING CODE SE.2.8922 AND COUNTY BUILDING CODE SE.1.1505.1
 - FILL OVER 12" SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT TO 95%

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04	03/30/22	City Plan Check #03	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
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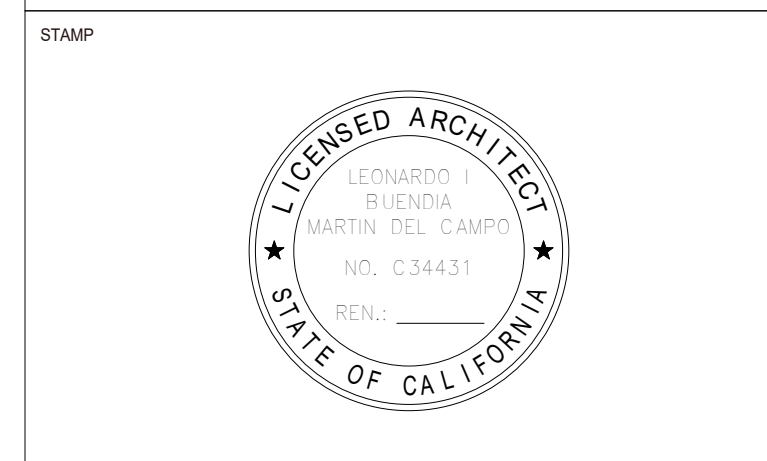
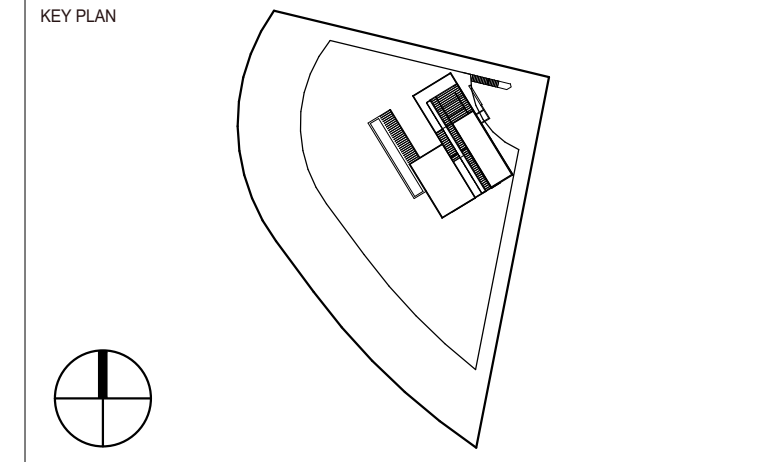
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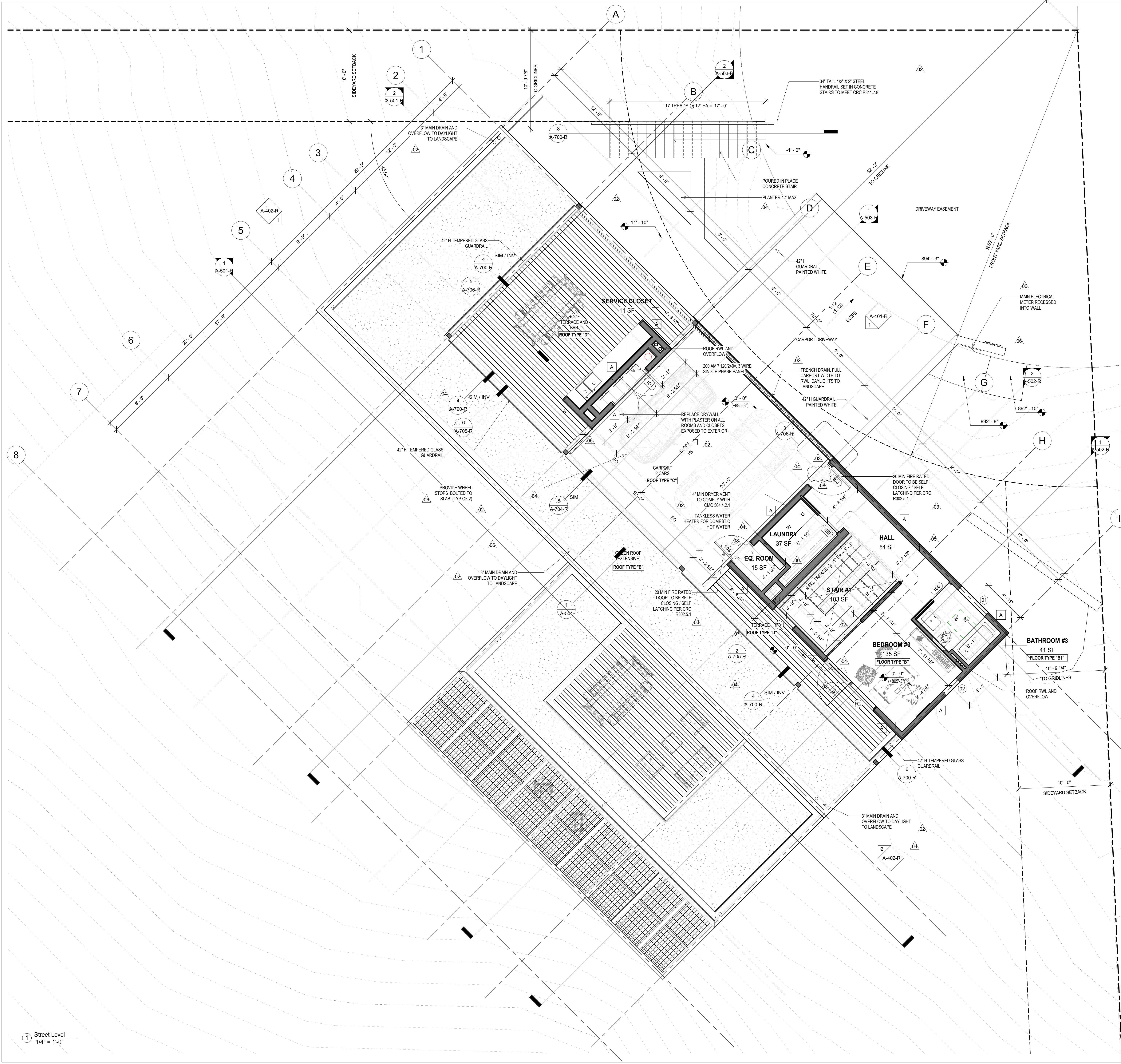


PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Site Plan

PROJECT NUMBER	DATE	SCALE
DZK-2018-01	11/27/2019	As indicated

1 Site Plan
 1" = 10'-0" (1:10)



FLOOR PLAN NOTES

- OCCUPANCY SEPARATION: OCCUPANCIES RU
- PROVIDE 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO ROOF SHEATHING THE GARAGE SIDE OF ALL COMMON WALLS BETWEEN THE GARAGE AND DWELLING (2015 IBC 406.1.4)
- GARAGES AND CARPORTS BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN A 5/8" TYPE X GYPSUM BOARD OR EQUIVALENT (2009 IBC 406.1.4)
- PROVIDE A TIGHT FITTING AND SELF LATCHING, 1.38" THICK SOLID CORE DOOR (WOOD OR STEEL) OR HONEYCOMB STEEL DOOR WITH A SELF CLOSER BETWEEN THE GARAGE AND DWELLING. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED (2015 IBC 406.1.4)
- STAIRS (2015 IBC 1009.6.3): PROVIDE 1/2" GYPSUM BOARD IN THE ENCLOSED USABLE SPACE UNDER ALL STAIRS
- DRAFT STOPS IN ATTICS (2015 IBC 717.4): DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3000 SQUARE FEET
- WINDOW AND / OR DOOR EGRESS FROM SLEEPING ROOMS AND BASEMENTS (CRC R310): SLEEPING ROOMS SHALL HAVE A WINDOW OR EXTERIOR DOOR FOR EMERGENCY ESCAPE. MINIMUM OF 5.7 SQUARE FEET OF NET CLEAR AREA ABOVE GRADE AND 5.0 SQUARE FEET AT GRADE OR BELOW. MINIMUM OF 24 INCH NET CLEAR HEIGHT AND 20 INCH NET CLEAR WIDTH. BOTTOM OF CLEAR OPENING MAXIMUM OF 44 INCHES ABOVE FLOOR. THE EMERGENCY DOOR OR WINDOW SHALL BE OPERABLE WITHOUT THE USE OF SEPARATE TOOLS.
- SMOKE DETECTORS ARE REQUIRED IN EACH EXISTING SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF SLEEPING ROOMS, AND ON EACH STORY OF A DWELLING INCLUDING BASEMENTS. BATTERY-OPERATED DETECTORS ARE ACCEPTABLE IN EXISTING AREAS WITH NO CONSTRUCTION TAKING PLACE AND IN ALTERATIONS NOT RESULTING IN REMOVAL OF INTERIOR WALL OR CEILING FINISHES AND WITHOUT ACCESS VIA AN ATTIC, CRAWL SPACE, OR BASEMENT. (CRC R314.3)
- SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING SERVES FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK UP. SMOKE ALARMS SHALL ADMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT WITHOUT A DISCONNECT SWITCH OTHER THAN AS REQUIRED FOR OVER CURRENT PROTECTION.
- WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A WAY THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
- ADDITIONAL SMOKE ALARMS SHALL BE PROVIDED ABOVE AT THE TOP OF EACH STAIRWAY LANDING AND SHALL BE PROVIDED IN ALL HABITABLE SPACES EXCEPT KITCHENS.
- CARBON MONOXIDE DETECTORS ARE REQUIRED OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH STORY OF A DWELLING INCLUDING BASEMENTS. BATTERY-OPERATED DETECTORS ARE ACCEPTABLE IN EXISTING AREAS WITH NO CONSTRUCTION TAKING PLACE AND IN ALTERATIONS NOT RESULTING IN REMOVAL OF INTERIOR WALL OR CEILING FINISHES AND WITHOUT ACCESS VIA AN ATTIC, CRAWL SPACE, OR BASEMENT. (CRC R315.3)
- SINGLE AND MULTIPLE CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH THE REQUIREMENTS OF UL 2034. CARBON MONOXIDE DETECTORS SHALL BE LISTED AS COMPLYING WITH THE REQUIREMENTS OF UL 2075.
- REFER TO REFLECTED CEILING PLANS FOR PROPOSED SPRINKLER HEAD LOCATIONS. CONTRACTOR TO EVALUATE LOCATIONS FOR ACCEPTABILITY AND PERFORMANCE. IF DEVIATIONS ARE REQUIRED CONTRACTOR TO ALERT ARCHITECT OF REQUIRED CHANGES FOR REVIEW AND APPROVAL BEFORE FABRICATION AND COMMENCEMENT OF WORK.
- LOCATE LIGHT SWITCHES @ 40" ABOVE FINISH FLOOR (A.F.F.) U.N.O.
- ALL TOILETS TO BE "ULTRA LOW FLUSH"
 - PROVIDE LAVATORY FAUCETS WITH A MAXIMUM FLOW OF 1.2 GALLONS PER MINUTE.
 - PROVIDE KITCHEN FAUCETS WITH A MAXIMUM FLOW OF 1.8 GALLONS PER MINUTE.
 - PROVIDE SHOWER HEADS WITH A MAXIMUM FLOW OF 2.0 GALLONS PER MINUTE.
 - PROVIDE WATER CLOSETS WITH A MAXIMUM FLOW OF 1.28 GALLONS PER FLUSH (GPF).
- PER 2016 CGSBC, PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE (CPC).
- PER 2016 GREEN CODE, MECHANICAL EXHAUST FANS WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING:
 - FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE BUILDING.
 - UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. HUMIDISTAT CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50 TO 80 PERCENT.
- ALL ABS AND PVC PIPING AND FITTINGS SHALL BE ENCLOSED WITHIN WALLS AND FLOORS COVERED WITH "TYPE X GYPSUM BOARD" OR SIMILAR ASSEMBLIES THAT PROVIDE THE SAME LEVEL OF FIRE PROTECTION. PROTECTION OF MEMBRANE PENETRATIONS IS NOT REQUIRED.
- AFCI OUTLETS: ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY AFCI CIRCUIT INTERRUPTERS (AFCI). (CEC 240.12)

WETBAR DESIGN LIMITATIONS:

A. COUNTER SURFACES SHALL NOT EXCEED 10 FEET IN TOTAL LENGTH. NOR SHALL WALL CABINETS, (THIS COUNTER SIZE STANDARD SHALL APPLY TO POOL HOUSES, ETC. AND TO DWELLING ROOMS THAT ARE DISTANT, OR ISOLATED, FROM THE MAIN LIVING AREA OF A HOME).

B. ONLY ONE SINGLE SINK IS ALLOWED. 18" MAXIMUM LENGTH, WITH A MAXIMUM 1 1/2 INCH DRAIN

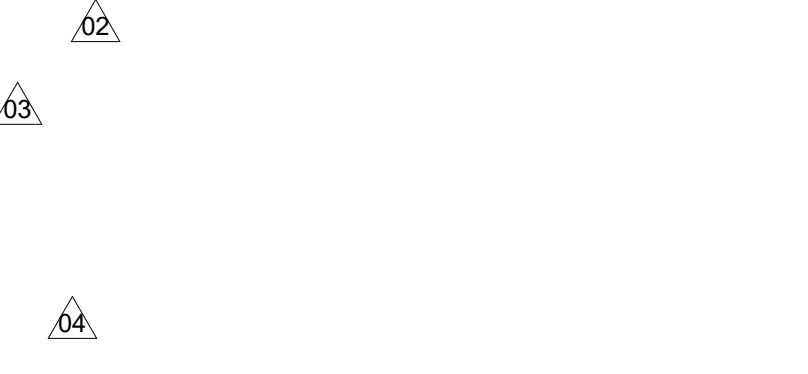
C. ONLY ONE COMPACT REFRIGERATOR, FREEZER OR ICE MAKER (5 CUBIC FEET MAXIMUM CAPACITY) DESIGNED FOR PLACEMENT UNDER A COUNTER AND SO INSTALLED

D. NO GAS OR 220 VOLT AC POWER OUTLETS ARE ALLOWED IN THE VICINITY OF THE WETBAR.

E. NO OTHER FACILITY (INCLUDING, BUT NOT LIMITED TO, STOVE, RANGE, DISHWASHER, MICROWAVE, GARBAGE DISPOSAL OR TRASH COMPACTOR) USED FOR THE PREPARATION OF FOOD SHALL BE LOCATED WITHIN OR NEAR A WETBAR.

"THE PROPOSED WETBAR WILL COMPLY WITH THE ABOVE WETBAR LIMITATIONS"

SIGNATURE _____ DATE _____



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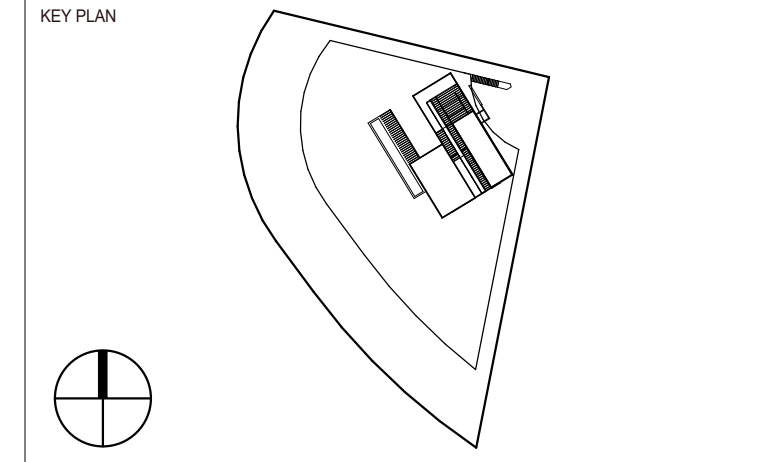
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Patricia Dziuk



PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Street Level Plan

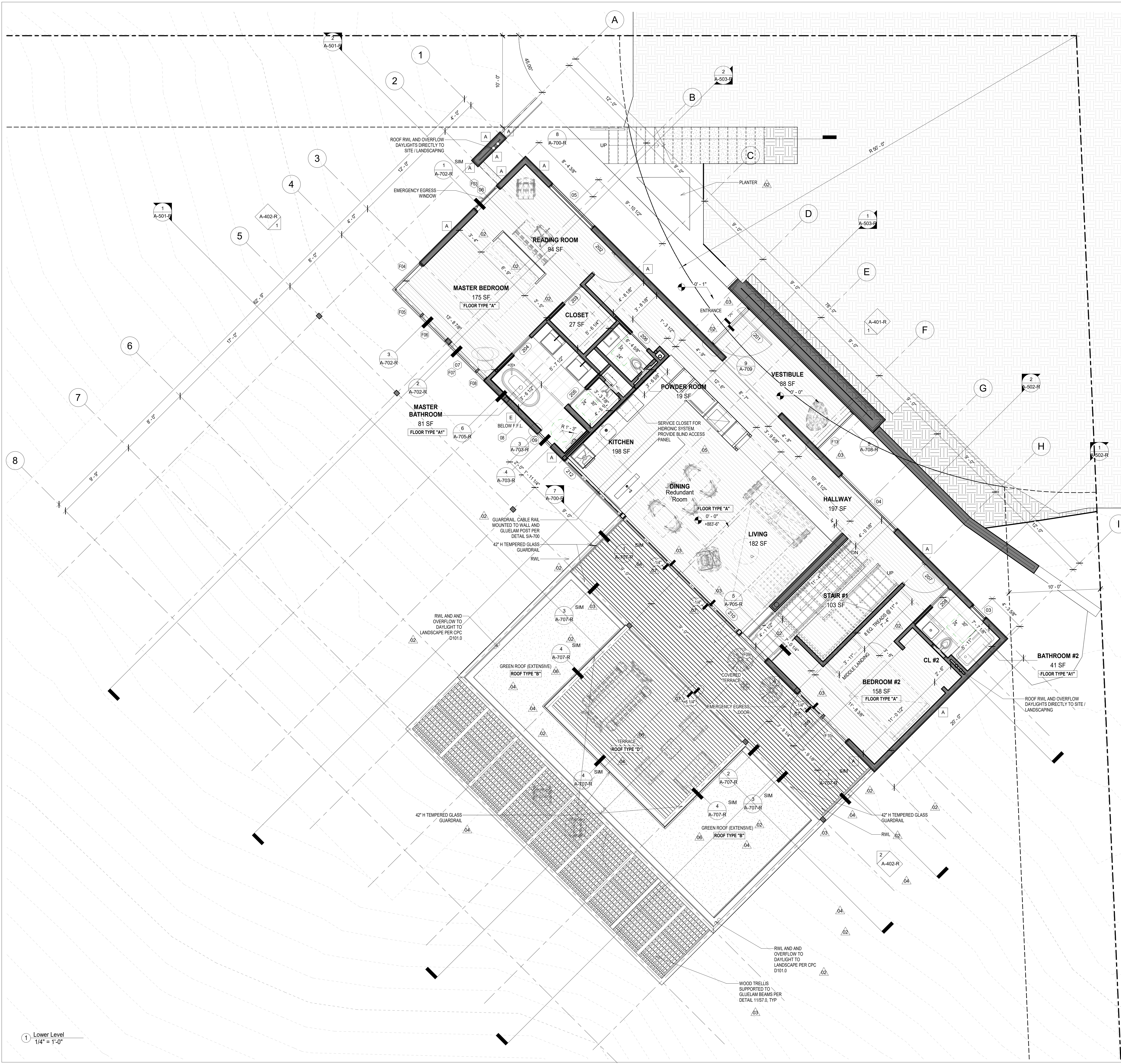
PROJECT
DZK-2018-01

DATE
11/27/2019

NUMBER
A-201-R

SCALE
1/4" = 1'-0"

1 Street Level
 1/4" = 1'-0"



FLOOR PLAN NOTES

- OCCUPANCY SEPARATION: OCCUPANCIES RU
 - PROVIDE 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO ROOF SHEATHING THE GARAGE SIDE OF ALL COMMON WALLS BETWEEN THE GARAGE AND DWELLING (2015 IBC 408.1.4)
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 - PROVIDE KITCHEN FAUCETS WITH A MAXIMUM FLOW OF 1.8 GALLONS PER MINUTE
 - PROVIDE SHOWER HEADS WITH A MAXIMUM FLOW OF 2.0 GALLONS PER MINUTE
 - PROVIDE WATER CLOSETS WITH A MAXIMUM FLOW OF 1.28 GALLONS PER FLUSH (GPF)
 - PER 2016 CGSBC, PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE (CPC).
 - PER 2016 GREEN CODE, MECHANICAL EXHAUST FANS WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING:
 - FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE BUILDING.
 - UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. HUMIDISTAT CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50 TO 80 PERCENT.
 - ALL ABS AND PVC PIPING AND FITTINGS SHALL BE ENCLOSED WITHIN WALLS AND FLOORS COVERED WITH "TYPE X GYPSUM BOARD" OR SIMILAR ASSEMBLIES THAT PROVIDE THE SAME LEVEL OF FIRE PROTECTION. PROTECTION OF MEMBRANE PENETRATIONS IS NOT REQUIRED.
 - AFCI OUTLETS ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12)
- WETBAR DESIGN LIMITATIONS:**
- COUNTER SURFACES SHALL NOT EXCEED 10 FEET IN TOTAL LENGTH. NON SHALL WALL CABINETS. THIS COUNTER SIZE STANDARD SHALL APPLY TO POOL HOUSES, ETC. AND TO DWELLING ROOMS THAT ARE DISTANT, OR ISOLATED, FROM THE MAIN LIVING AREA OF A HOME.
 - ONLY ONE SINGLE SINK IS ALLOWED. 18" MAXIMUM LENGTH, WITH A MAXIMUM 1 1/2" DEEP DRAIN
 - ONLY ONE COMPACT REFRIGERATOR, FREEZER OR ICE MAKER IS ALLOWED. FEET MAXIMUM CAPACITY DESIGNED FOR PLACEMENT UNDER A COUNTER AND SO INSTALLED
 - NO GAS OR 220 VOLT AC POWER OUTLETS ARE ALLOWED IN THE VICINITY OF THE WETBAR.
 - NO OTHER FACILITY (INCLUDING, BUT NOT LIMITED TO, STOVE, RANGE, DISHWASHER, MICROWAVE GARBAGE DISPOSAL OR TRASH COMPACTOR) USED FOR THE PREPARATION OF FOOD SHALL BE LOCATED WITHIN OR NEAR A WETBAR.
- *THE PROPOSED WETBAR WILL COMPLY WITH THE ABOVE WETBAR LIMITATIONS*
- SIGNATURE _____ DATE _____

SHEET SPECIFIC NOTES:

- ROOFING SHALL HAVE A CLASS "A" FIRE RATING PER COUNTY BUILDING CODE 92.2.RR02 AND COUNTY BUILDING CODE 92.1.1505.1

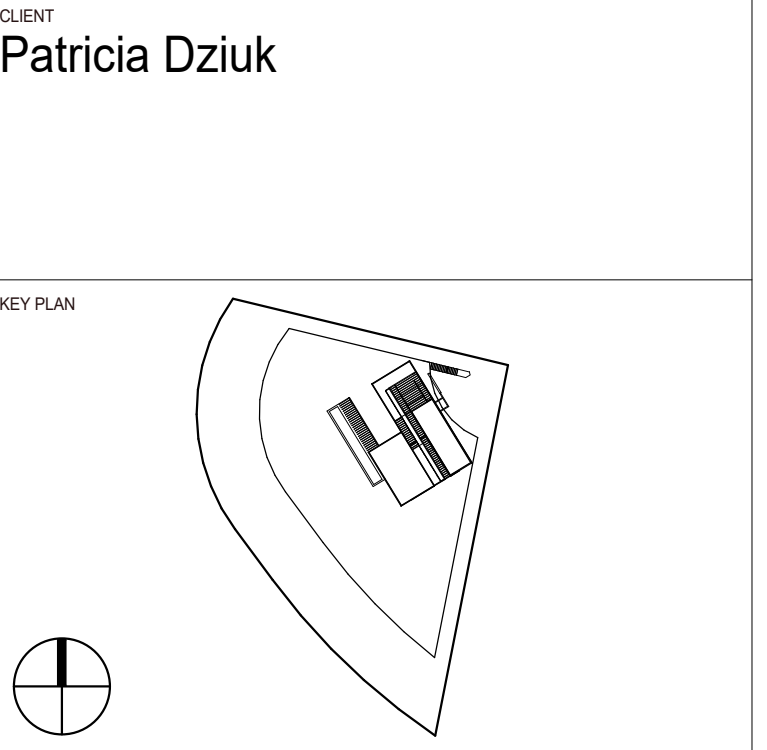
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02	08/12/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

PERMIT SET

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CONSULTANT
 CONSULTANT
 CLIENT
Patricia Dziuk



PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Lower Level Plan

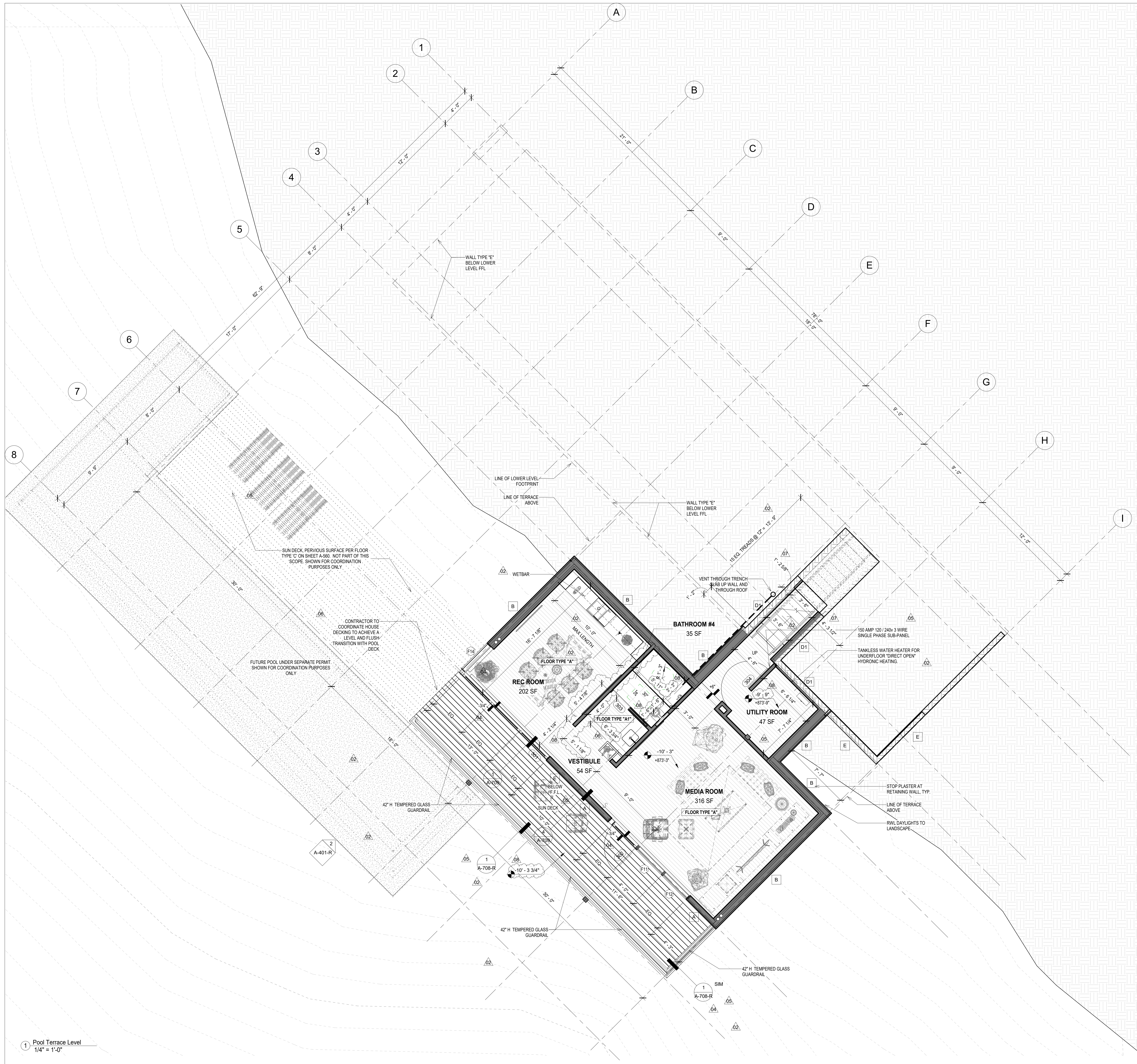
PROJECT
DZK-2018-01

DATE
11/27/2019

NUMBER
A-202-R

SCALE
1/4" = 1'-0"

1 Lower Level
 1/4" = 1'-0"



FLOOR PLAN NOTES

- OCCUPANCY SEPARATION: OCCUPANCIES RUI
 - A) PROVIDE 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO ROOF SHEATHING THE GARAGE SIDE OF ALL COMMON WALLS BETWEEN THE GARAGE AND DWELLING (2015 IBC 406.1.4)
 - B) GARAGES AND CARPORTS BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN A 5/8" TYPE X GYPSUM BOARD, OR EQUIVALENT (2009 IBC 406.1.4)
 - C) PROVIDE A TIGHT FITTING AND SELF LATCHING, 1 3/8" THICK SOLID CORE DOOR (WOOD OR STEEL) OR HONEYCOMB STEEL DOOR WITH A SELF CLOSER BETWEEN THE GARAGE AND DWELLING. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED (2015 IBC 406.1.4)
 - STAIRS (2015 IBC 1009.6.3): PROVIDE 1/2" GYPSUM BOARD IN THE ENCLOSED USABLE SPACE UNDER ALL STAIRS
 - DRAFT STOPS IN ATTICS (2015 IBC 717.4): DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3000 SQUARE FEET
 - WINDOW AND / OR DOOR EGRESS FROM SLEEPING ROOMS AND BASEMENTS (CRC R310): SLEEPING ROOMS SHALL HAVE A WINDOW OR EXTERIOR DOOR FOR EMERGENCY ESCAPE. MINIMUM OF 5.7 SQUARE FEET OF NET CLEAR AREA ABOVE GRADE AND 5.0 SQUARE FEET AT GRADE OR BELOW. MINIMUM OF 20 INCH NET CLEAR HEIGHT AND 20 INCH NET CLEAR WIDTH. BOTTOM OF CLEAR OPENING MAXIMUM OF 44 INCHES ABOVE FLOOR. THE EMERGENCY DOOR OR WINDOW SHALL BE OPERABLE WITHOUT THE USE OF SEPARATE TOOLS.
 - SMOKE DETECTORS ARE REQUIRED IN EACH EXISTING SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF SLEEPING ROOMS, AND ON EACH STORY OF A DWELLING INCLUDING BASEMENTS. BATTERY OPERATED DETECTORS ARE ACCEPTABLE IN EXISTING AREAS WITH NO CONSTRUCTION TAKING PLACE AND IN ALTERATIONS NOT RESULTING IN REMOVAL OF INTERIOR WALL OR CEILING FINISHES AND WITHOUT ACCESS VIA AN ATTIC, CRAWL SPACE, OR BASEMENT. (CRC R314.3)
 - SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING SERVES FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK UP. SMOKE ALARMS SHALL ADMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT WITHOUT A DISCONNECT SWITCH OTHER THAN AS REQUIRED FOR OVER CURRENT PROTECTION.
 - WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A WAY THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERIOR DOORS CLOSED.
 - ADDITIONAL SMOKE ALARMS SHALL BE PROVIDED ABOVE AT THE TOP OF EACH STARWAY LANDING AND SHALL BE PROVIDED IN ALL HABITABLE SPACES EXCEPT KITCHENS.
 - CARBON MONOXIDE DETECTORS ARE REQUIRED OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF SLEEPING ROOMS AND ON EACH STORY OF A DWELLING INCLUDING BASEMENTS. BATTERY OPERATED DETECTORS ARE ACCEPTABLE IN EXISTING AREAS WITH NO CONSTRUCTION TAKING PLACE AND IN ALTERATIONS NOT RESULTING IN REMOVAL OF INTERIOR WALL OR CEILING FINISHES AND WITHOUT ACCESS VIA AN ATTIC, CRAWL SPACE, OR BASEMENT. (CRC R315.3)
 - SINGLE AND MULTIPLE CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH THE REQUIREMENTS OF UL 2034. CARBON MONOXIDE DETECTORS SHALL BE LISTED AS COMPLYING WITH THE REQUIREMENTS OF UL 2075.
 - REFER TO REFLECTED CEILING PLANS FOR PROPOSED SPRINKLER HEAD LOCATIONS. CONTRACTOR TO EVALUATE LOCATIONS FOR ACCEPTABILITY AND PERFORMANCE. IF DEVIATIONS ARE REQUIRED CONTRACTOR TO ALERT ARCHITECT OF REQUIRED CHANGES FOR REVIEW AND APPROVAL BEFORE FABRICATION AND COMMENCEMENT OF WORK.
 - LOCATE LIGHT SWITCHES @ 40" ABOVE FINISH FLOOR (A.F.F.) U.O.
 - ALL TOILETS TO BE "ULTRA LOW FLUSH"
 - PROVIDE LAVATORY FAUCETS WITH A MAXIMUM FLOW OF 1.2 GALLONS PER MINUTE.
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RFI 009

SIGNATURE _____ DATE _____

SHEET SPECIFIC NOTES:

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07	04/19/24	Bulletin_02	LB
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05	08/21/23	Bulletin_01	LB
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01	11/27/19	Plan Check Submission	LB

PERMIT SET

ARCHITECT

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 619.410.1432 lb@leonardobuendia.com

CONSULTANT

CLIENT
Patricia Dziuk

KEY PLAN

STAMP

PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Pool Level Plan

PROJECT
DZK-2018-01

DATE
11/27/2019

NUMBER
A-203-R

SCALE
1/4" = 1'-0"

1 Pool Terrace Level
 1/4" = 1'-0"



- FLOOR PLAN NOTES**
- OCCUPANCY SEPARATION OCCUPANCIES RUI
 - PROVIDE 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO ROOF SHEATHING THE GARAGE SIDE OF ALL COMMON WALLS BETWEEN THE GARAGE AND DWELLING (2015 IBC 406.1.4)
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 - PROVIDE A TIGHT FITTING AND SELF LATCHING, 1 3/8" THICK SOLID CORE DOOR (WOOD OR STEEL) OR HONEYCOMB STEEL DOOR WITH A SELF CLOSER BETWEEN THE GARAGE AND DWELLING. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED (2015 IBC 406.1.4)
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01	11/27/19	Plan Check Submission	LB

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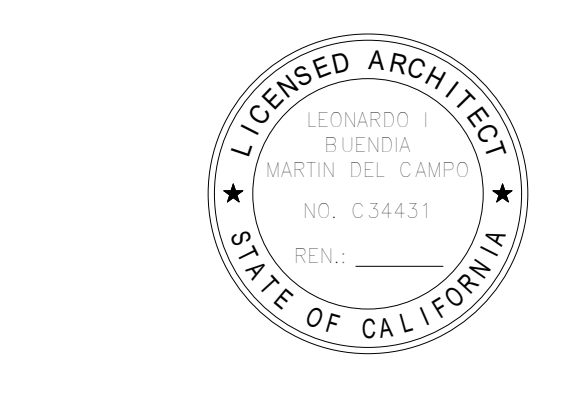
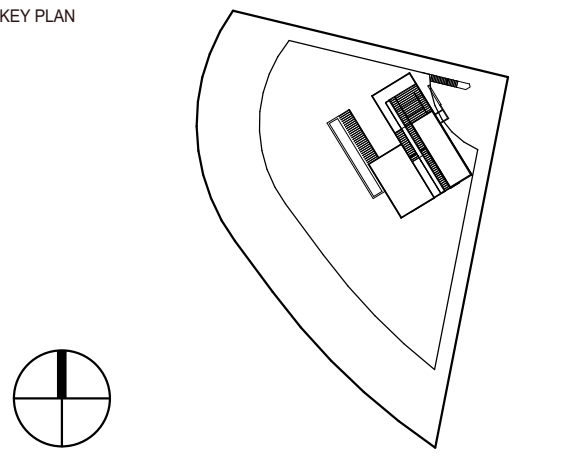
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CONSULTANT

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Patricia Dziuk



PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Pool Level Plan

PROJECT
DZK-2018-01

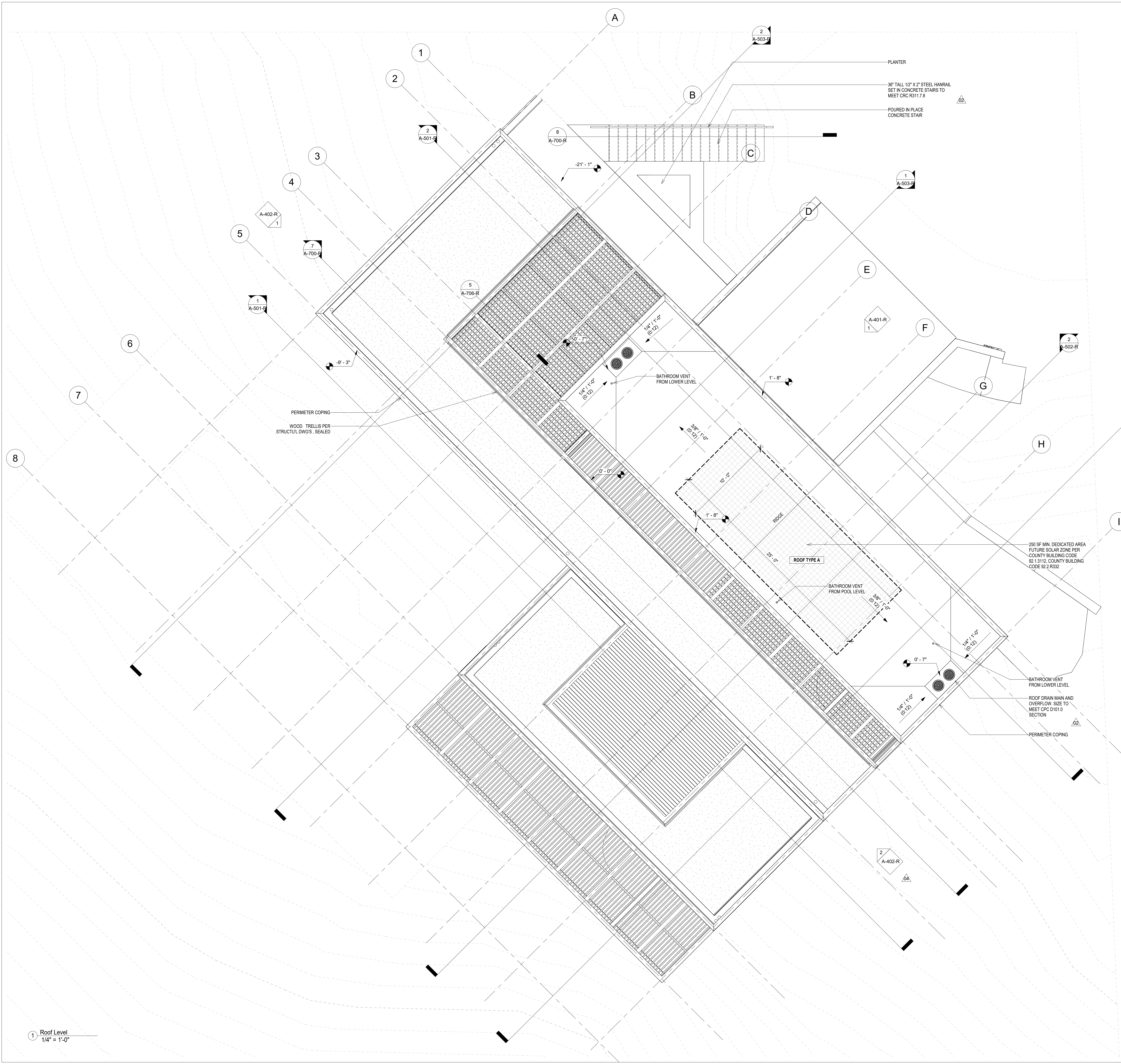
DATE
11/27/2019

NUMBER
A-203-R

SCALE
1/4" = 1'-0"

See previous page

1 Pool Terrace Level
 1/4" = 1'-0"



FLOOR PLAN NOTES

- OCCUPANCY SEPARATION: OCCUPANCIES RU
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 - PROVIDE WATER CLOSETS WITH A MAXIMUM FLOW OF 1.28 GALLONS PER FLUSH (GPF)
- PER 2016 CGSBC PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE (CPC).
- PER 2016 GREEN CODE, MECHANICAL EXHAUST FANS WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING:
 - FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE BUILDING.
 - UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. HUMIDISTAT CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 10 TO 80 PERCENT.
- ALL ABS AND PVC PIPING AND FITTINGS SHALL BE ENCLOSED WITHIN WALLS AND FLOORS COVERED WITH TYPE X GYPSUM BOARD OR SIMILAR ASSEMBLIES THAT PROVIDE THE SAME LEVEL OF FIRE PROTECTION. PROTECTION OF MEMBRANE PENETRATIONS IS NOT REQUIRED.
- AFCI OUTLETS, ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DEN'S, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI), (CEC 210.12)

WETBAR DESIGN LIMITATIONS:

A. COUNTER SURFACES SHALL NOT EXCEED 10 FEET IN TOTAL LENGTH, NOR SHALL WALL CABINETS (THIS COUNTER SIZE STANDARD SHALL APPLY TO POOL, HOUSES, ETC. AND TO DWELLING ROOMS THAT ARE DISTANT, OR ISOLATED, FROM THE MAIN LIVING AREA OF A HOME.)

B. ONLY ONE SINGLE SINK IS ALLOWED, 18" MAXIMUM LENGTH, WITH A MAXIMUM 1 1/2 INCH DRAIN

C. ONLY ONE COMPACT REFRIGERATOR, FREEZER OR ICE MAKER (5 CUBIC FEET MAXIMUM CAPACITY) DESIGNED FOR PLACEMENT UNDER A COUNTER, AND SO INSTALLED.

D. NO GAS OR 220 VOLT AC POWER OUTLETS ARE ALLOWED IN THE VICINITY OF THE WETBAR.

E. NO OTHER FACILITY (INCLUDING, BUT NOT LIMITED TO, STOVE, RANGE, DISHWASHER, MICROWAVE, GARBAGE DISPOSAL OR TRASH COMPACTOR) USED FOR THE PREPARATION OF FOOD SHALL BE LOCATED WITHIN OR NEAR A WETBAR.

THE PROPOSED WETBAR WILL COMPLY WITH THE ABOVE WETBAR LIMITATIONS

SIGNATURE _____ DATE _____

SHEET SPECIFIC NOTES:

-ROOFING SHALL HAVE A CLASS 'A' FIRE RATING PER COUNTY BUILDING CODE 92.2.R99Z AND COUNTY BUILDING CODE 92.1.1505.1

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NO	DATE	REASON FOR ISSUE	CHK
04	03/30/22	City Plan Check #03	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

PERMIT SET

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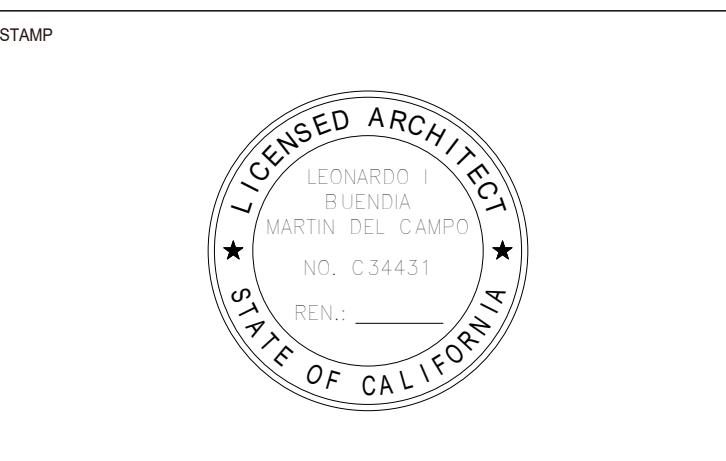
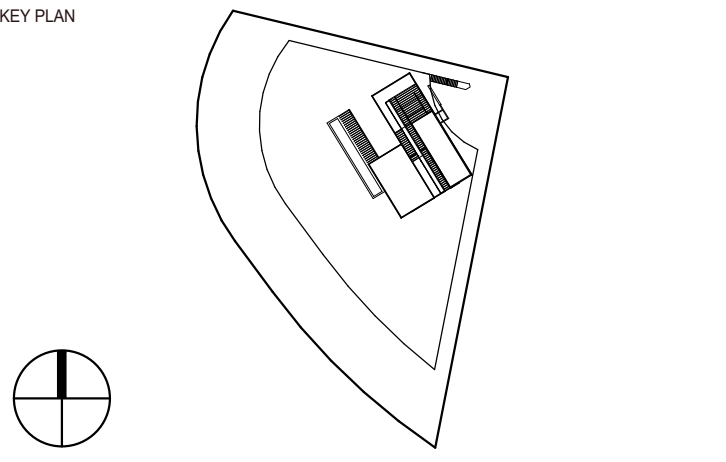
CONSULTANT

CONSULTANT

CLIENT

Patricia Dziuk

KEY PLAN



PROJECT

Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE

Roof Plan

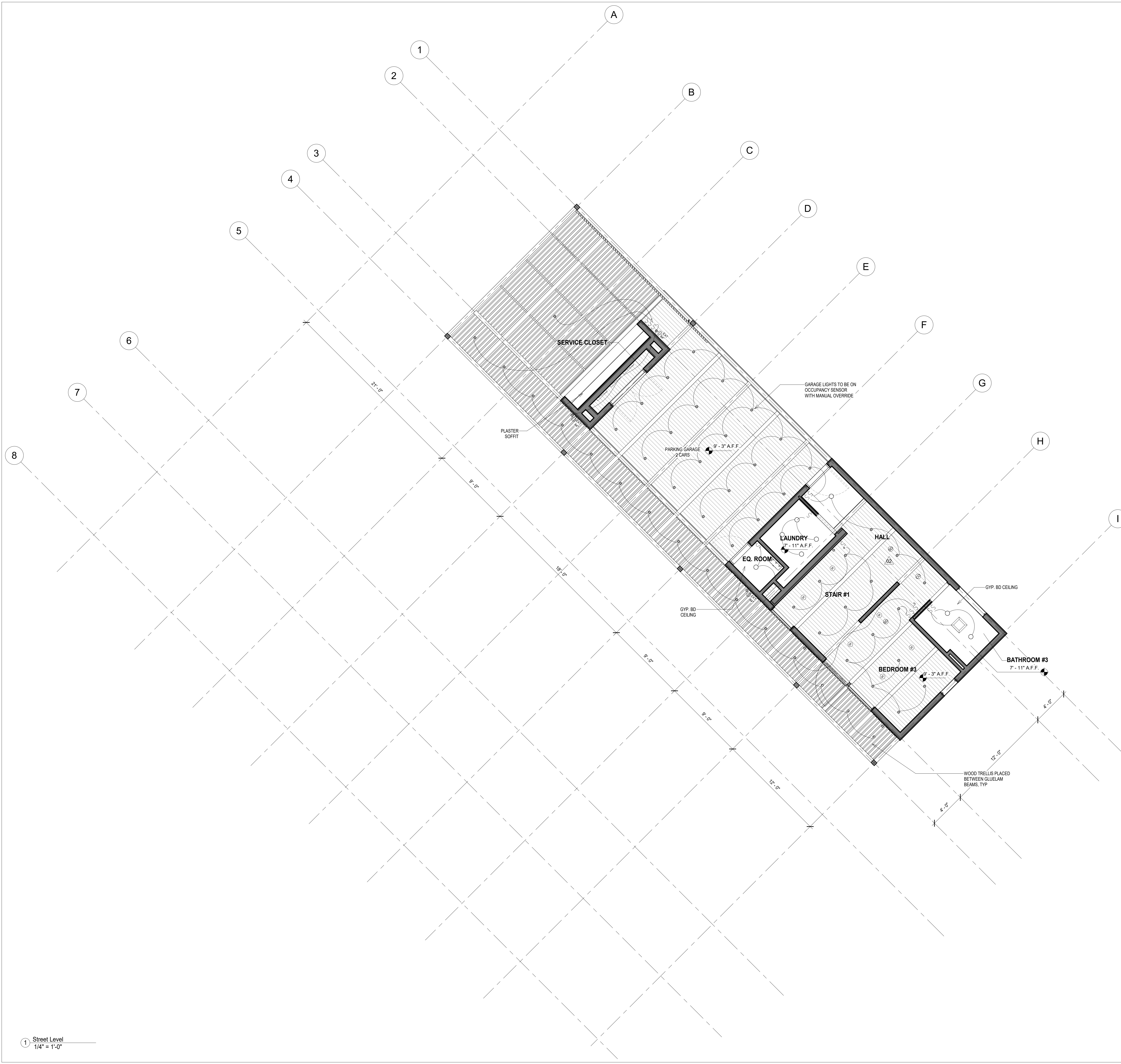
PROJECT NUMBER: **DZK-2018-01**

DATE: **11/27/2019**

SCALE: **1/4" = 1'-0"**

1 Roof Level
1/4" = 1'-0"

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CEILING LEGEND

- ⊕ CARBON MONOXIDE DETECTOR
- ⊕ SMOKE DETECTOR
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- ⊕ SPRINKLER HEAD
- ⊕ EXHAUST FAN / LIGHT COMBO UNIT
- ⊕ WALL MOUNTED LIGHT SWITCH - SINGLE
- ⊕ WALL MOUNTED LIGHT SWITCH - THREE WAY

RCP NOTES

- DESIGN SHALL COMPLY WITH THE FOLLOWING LIGHTING MEASURES MANDATORY (CBEES 150.0(K))
- PROVIDE ON UTILITY PLANS A COMPLETE LIGHTING FIXTURE SCHEDULE
- ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A
- ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "JAB-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://cacertappliances.energy.ca.gov/pages/appliancesearch.aspx)
- ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JAB-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://cacertappliances.energy.ca.gov/pages/appliancesearch.aspx)
- RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL NOT BE SCREW-BASED
- BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR
- ALL LUMINAIRES REQUIRING "JAB-016" OR "JAB-016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR
- EXCEPTION: CLOSETS LESS THAN 70 SF
- EXCEPTION: HALLWAYS
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDING SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:
 - PHOTOCONTROL AND MOTION SENSOR
 - PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL
 - ASTRONOMICAL TIME CLOCK
 - ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(K)(3)(ii)

02	12/06/23	City Plan Check #05	LB
01	11/27/19	Plan Check Submission	LB
NO	DATE	REASON FOR ISSUE	CHK

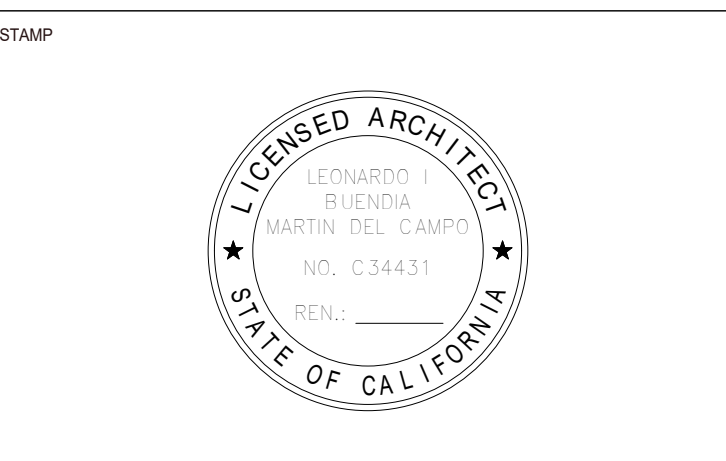
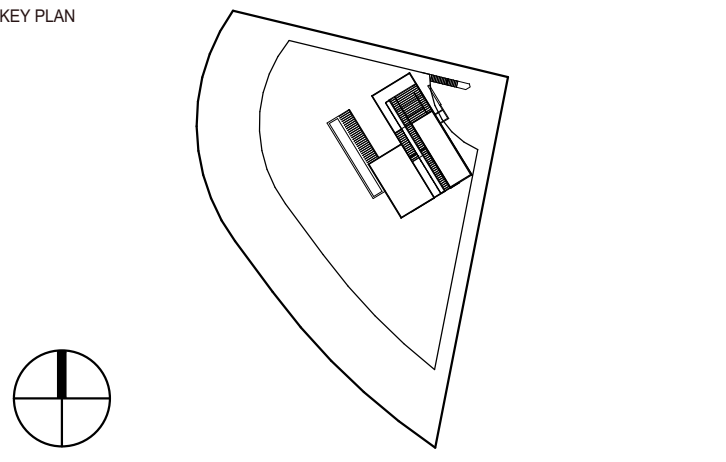
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CONSULTANT

CONSULTANT

CLIENT
Patricia Dziuk



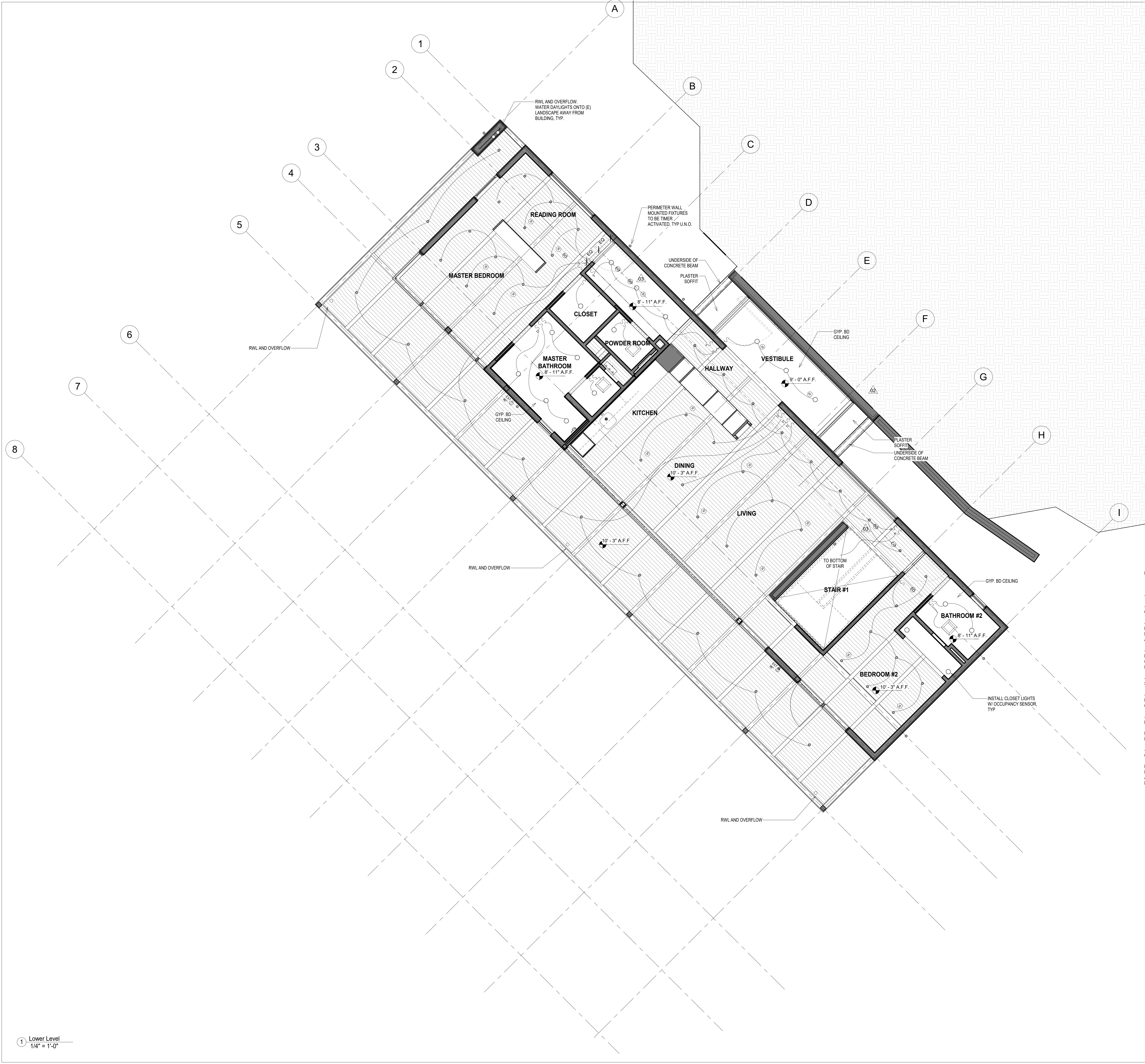
PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Street Level RCP

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-301	1/4" = 1'-0"

1 Street Level
 1/4" = 1'-0"

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CEILING LEGEND

	CARBON MONOXIDE DETECTOR
	SMOKE DETECTOR
	RECESSED LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
	SPRINKLER HEAD
	EXHAUST FAN / LIGHT COMBO UNIT
	WALL MOUNTED LIGHT SWITCH - SINGLE
	WALL MOUNTED LIGHT SWITCH - THREE WAY

RCP NOTES

DESIGN SHALL COMPLY WITH THE FOLLOWING LIGHTING MEASURES MANDATORY (CBEES 150.0(K))

- PROVIDE ON UTILITY PLANS A COMPLETE LIGHTING FIXTURE SCHEDULE
- ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A
- ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "IA8-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CAGOV/PAGES/APPLIANCESEARCH.ASPX](https://cagovpages/appliancesearch.aspx)
- ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "IA8-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CAGOV/PAGES/APPLIANCESEARCH.ASPX](https://cagovpages/appliancesearch.aspx)
- RECESSED DOWNLIGHT LUMINAIRES IN CEILING SHALL NOT BE SCREW-BASED
- BATHROOMS GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR
- ALL LUMINAIRES REQUIRING "IA8-016" OR "IA8-016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR

EXCEPTION: CLOSETS LESS THAN 70 S.F
EXCEPTION: HALLWAYS

-OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDING SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:
PHOTOCONTROL AND MOTION SENSOR
PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL
ASTRONOMICAL TIME CLOCK
ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(K)(3)(a)(c)

NO	DATE	REASON FOR ISSUE	CHK
03	12/06/23	City Plan Check #05	LB
02	03/10/21	City Plan Check #02	LB
01	11/27/19	Plan Check Submission	LB

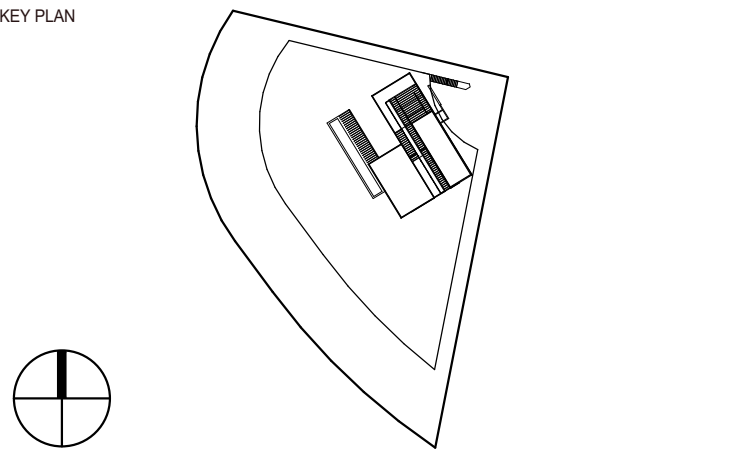
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Patricia Dziuk

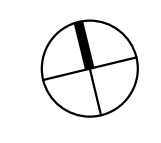


PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

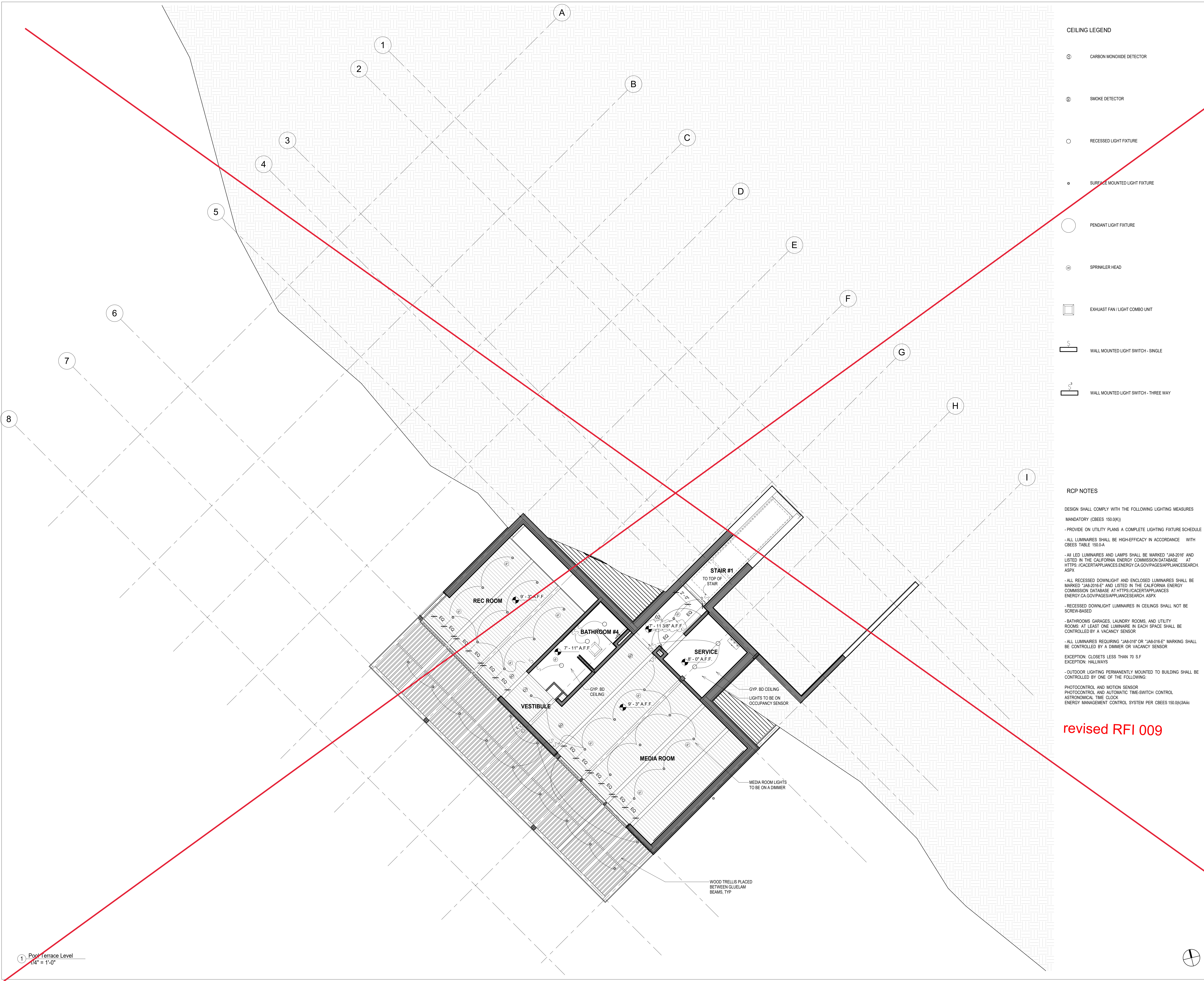
TITLE
Lower Level RCP

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-302	1/4" = 1'-0"

1 Lower Level
 1/4" = 1'-0"



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CEILING LEGEND

- Ⓢ CARBON MONOXIDE DETECTOR
- Ⓢ SMOKE DETECTOR
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- Ⓢ SPRINKLER HEAD
- ☐ EXHAUST FAN / LIGHT COMBO UNIT
- Ⓢ WALL MOUNTED LIGHT SWITCH - SINGLE
- Ⓢ WALL MOUNTED LIGHT SWITCH - THREE WAY

NO	DATE	REASON FOR ISSUE	CHK
02	04/19/24	Bulletin 02	LB
01	11/27/19	Plan Check Submission	LB

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CONSULTANT
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CLIENT
Patricia Dziuk

KEY PLAN

STAMP

PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Pool Level RCP

PROJECT NUMBER
DZK-2018-01
A-303

DATE
11/27/2019
 SCALE
1/4" = 1'-0"

RCP NOTES

- DESIGN SHALL COMPLY WITH THE FOLLOWING LIGHTING MEASURES MANDATORY (CBES 150.0(K))
- PROVIDE ON UTILITY PLANS A COMPLETE LIGHTING FIXTURE SCHEDULE
- ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBES TABLE 150.0(A)
- ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "IA8-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT [HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX](https://cacertappliances.energy.ca.gov/pages/appliancesearch.aspx)
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- ALL LUMINAIRES REQUIRING "IA8-016" OR "IA8-016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR
 EXCEPTION: CLOSETS LESS THAN 70 S.F.
 EXCEPTION: HALLWAYS
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDING SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:
 PHOTOCONTROL AND MOTION SENSOR
 PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL
 ASTRONOMICAL TIME CLOCK
 ENERGY MANAGEMENT CONTROL SYSTEM PER CBES 150.0(K)(3)(ii)

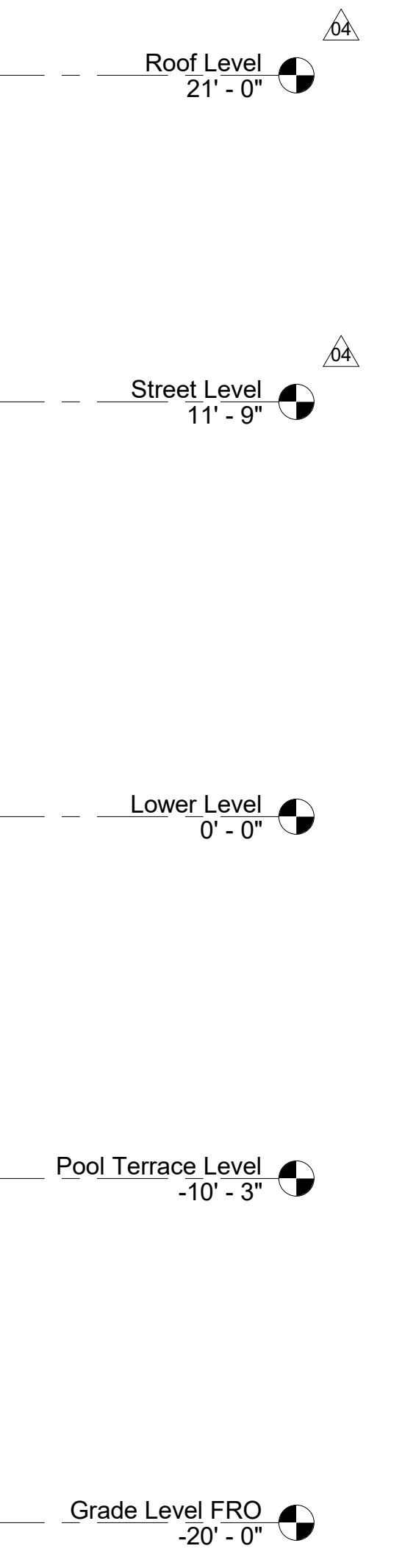
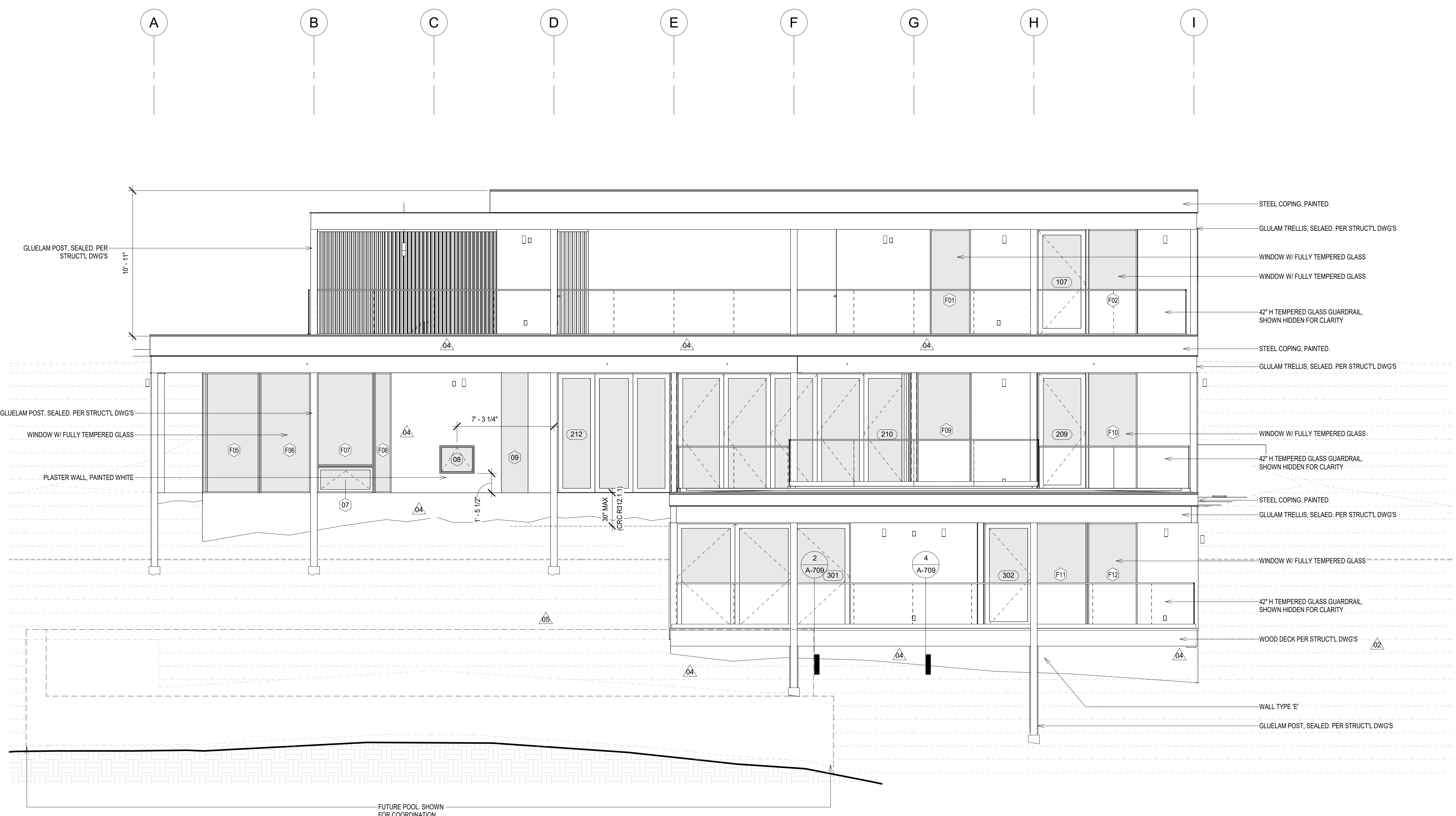
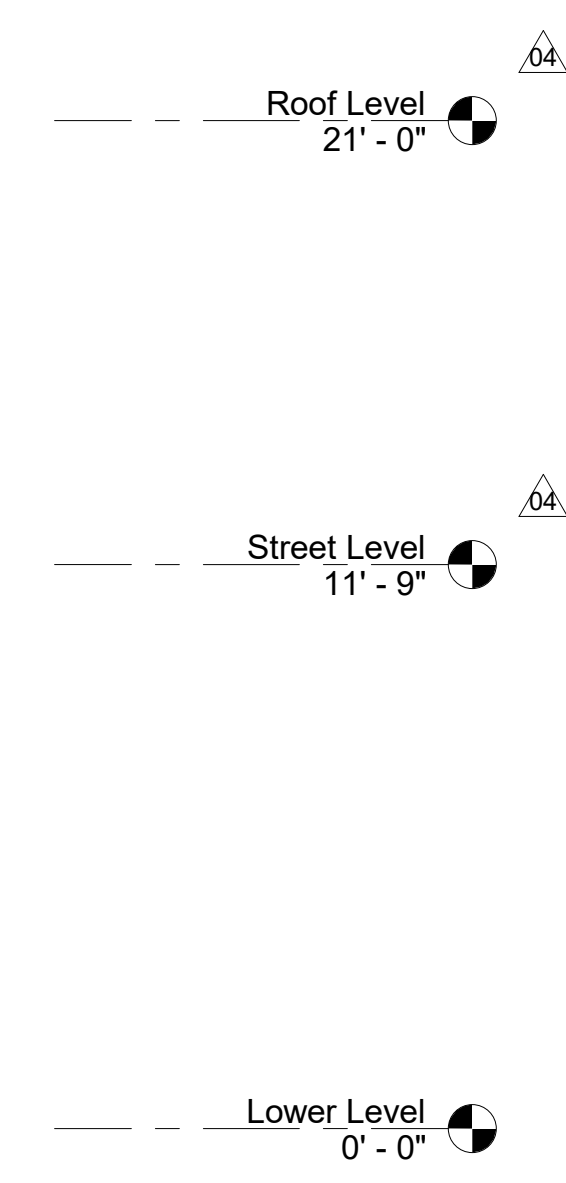
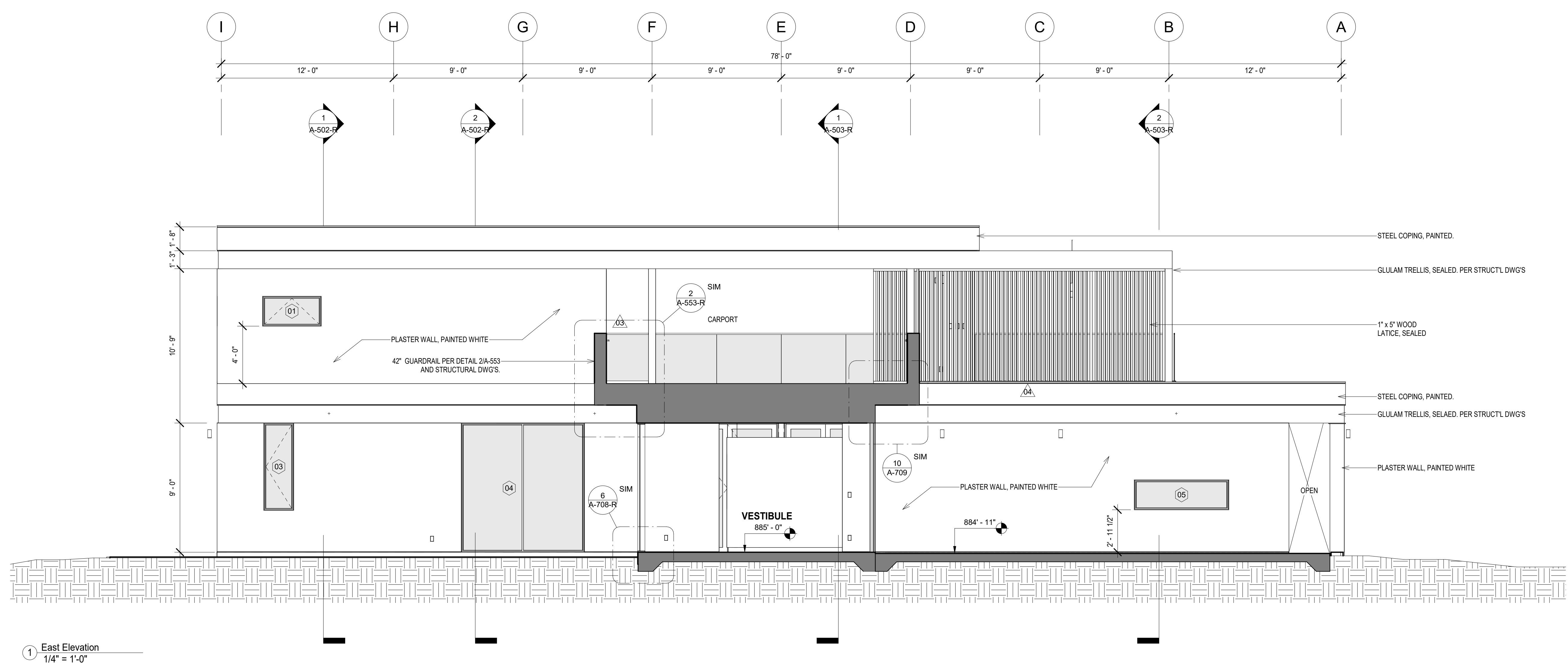
revised RFI 009

1 Pool Terrace Level
 1/4" = 1'-0"

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ELEVATION / SECTION NOTES

- ROOFING SHALL HAVE A CLASS A FIRE RATING PER COUNTY BUILDING CODE 92.2.R902 AND COUNTY BUILDING CODE 92.1.1505.1
- THE FOLLOWING "R" VALUES SHALL BE MET:
- WALLS: R-21
- FLOORS: R-19
- ROOFS: R-30
- REFER TO SHEET A-600 FOR WINDOW AND DOOR SCHEDULE
- ALL EXPOSED STRUCTURAL MEMBERS SHALL BE SEALED, MATTE FINISH



NO	DATE	REASON FOR ISSUE	CHK
05	12/06/23	City Plan Check #05	LB
04	08/21/23	Bulletin_01	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

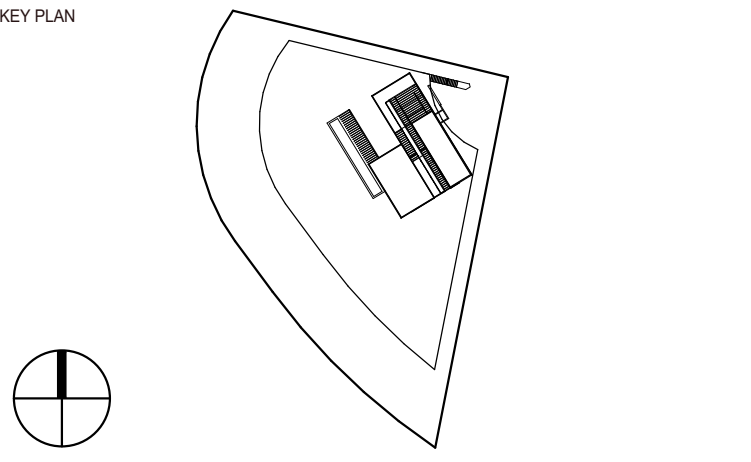
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CONSULTANT

CONSULTANT

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Patricia Dziuk



PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

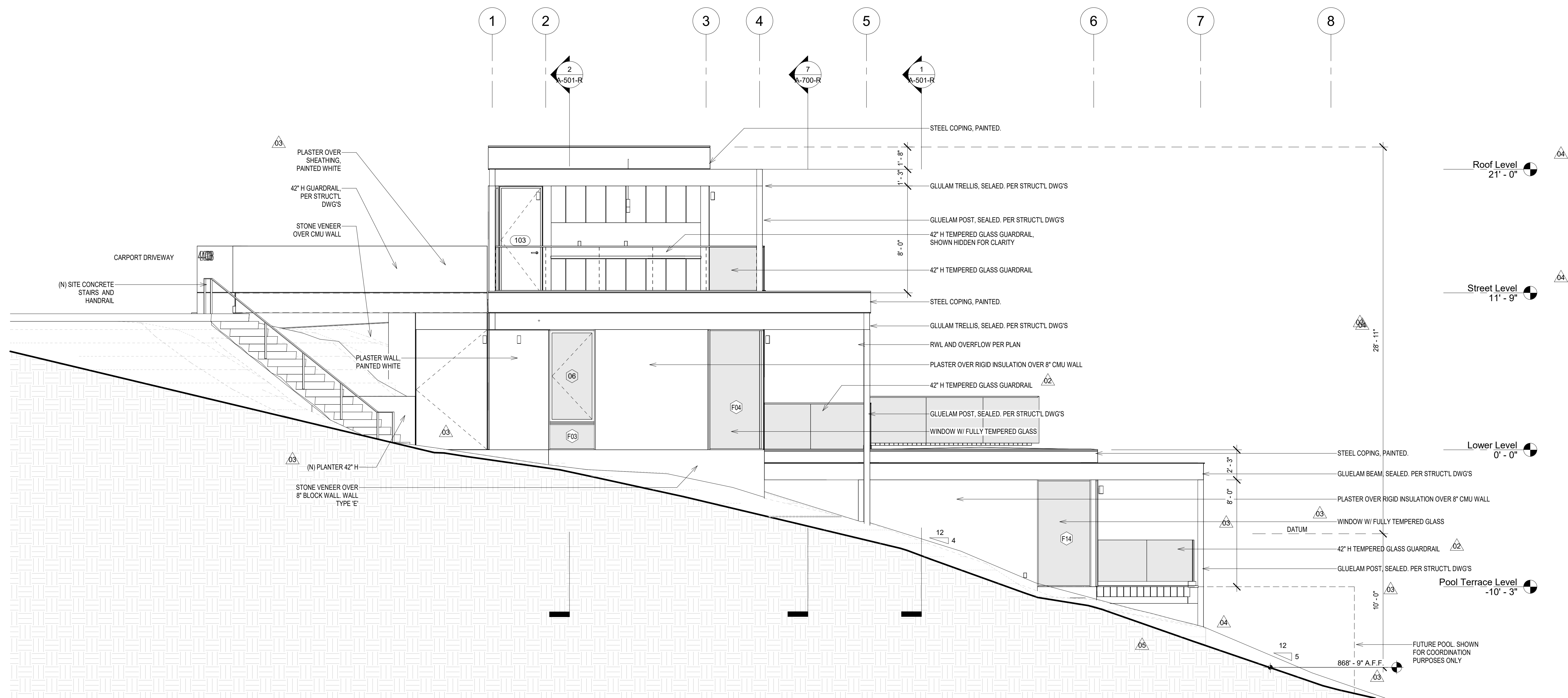
TITLE
Elevations

PROJECT NUMBER	DATE
DZK-2018-01	11/27/2019
SCALE	1/4" = 1'-0"

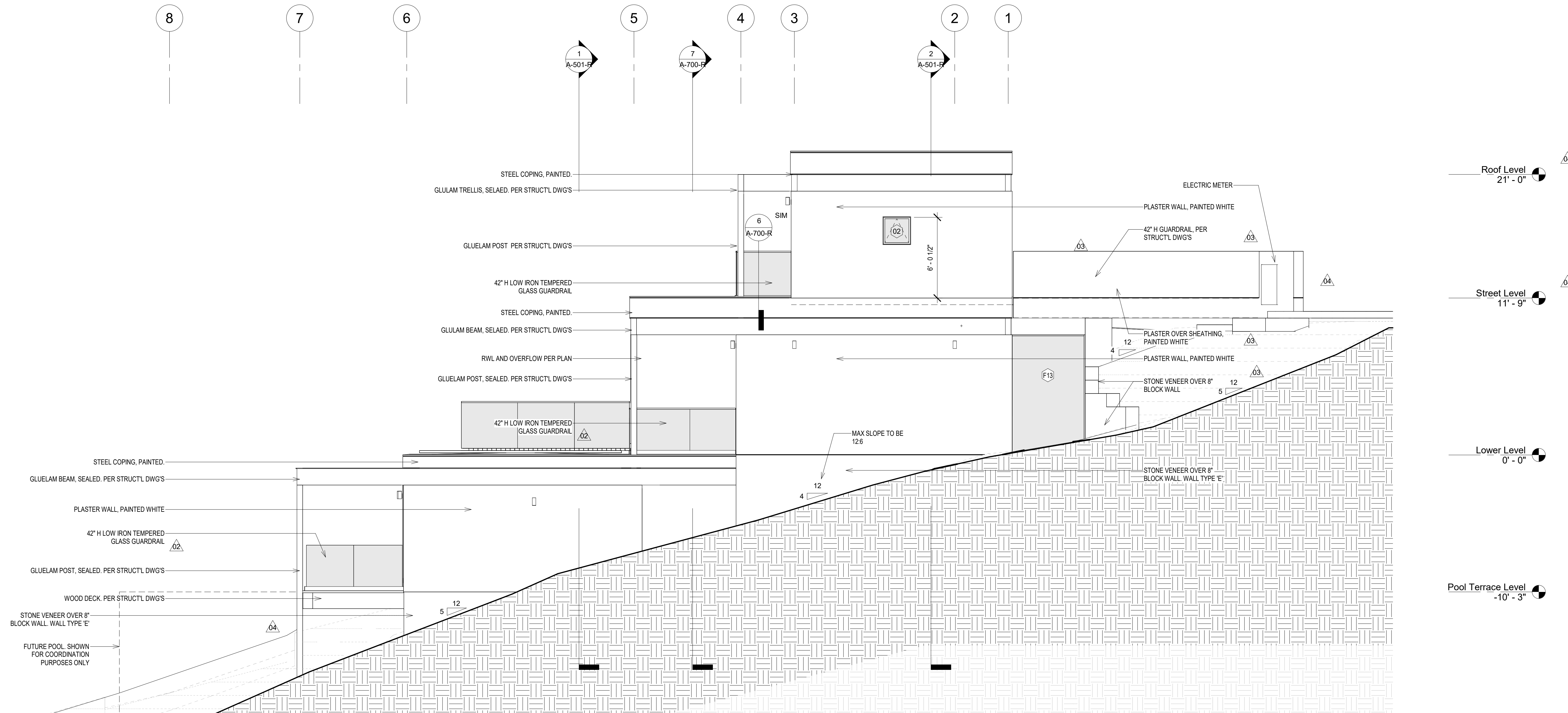
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ELEVATION / SECTION NOTES

- ROOFING SHALL HAVE A CLASS A FIRE RATING PER COUNTY BUILDING CODE 92.2.R02 AND COUNTY BUILDING CODE 92.1.1505.1
- THE FOLLOWING "R" VALUES SHALL BE MET:
- WALLS: R-21
- FLOORS: R-19
- ROOFS: R-30
- REFER TO SHEET A-600 FOR WINDOW AND DOOR SCHEDULE
- ALL EXPOSED STRUCTURAL MEMBERS SHALL BE SEALED, MATTE FINISH



1 North Elevation
1/4" = 1'-0"



2 South Elevation
1/4" = 1'-0"

NO	DATE	REASON FOR ISSUE	CHK
05	12/06/23	City Plan Check #05	LB
04	08/21/23	Bulletin_01	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

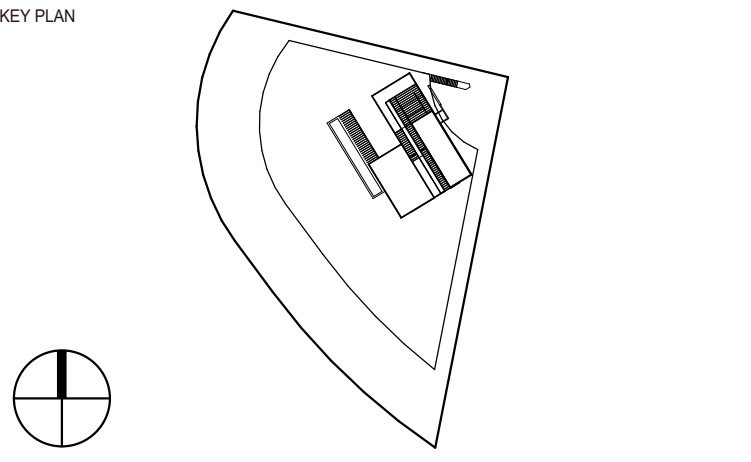
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Patricia Dziuk



PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Elevations

PROJECT NUMBER	DATE
DZK-2018-01	11/27/2019
A-402-R	SCALE: 1/4" = 1'-0"

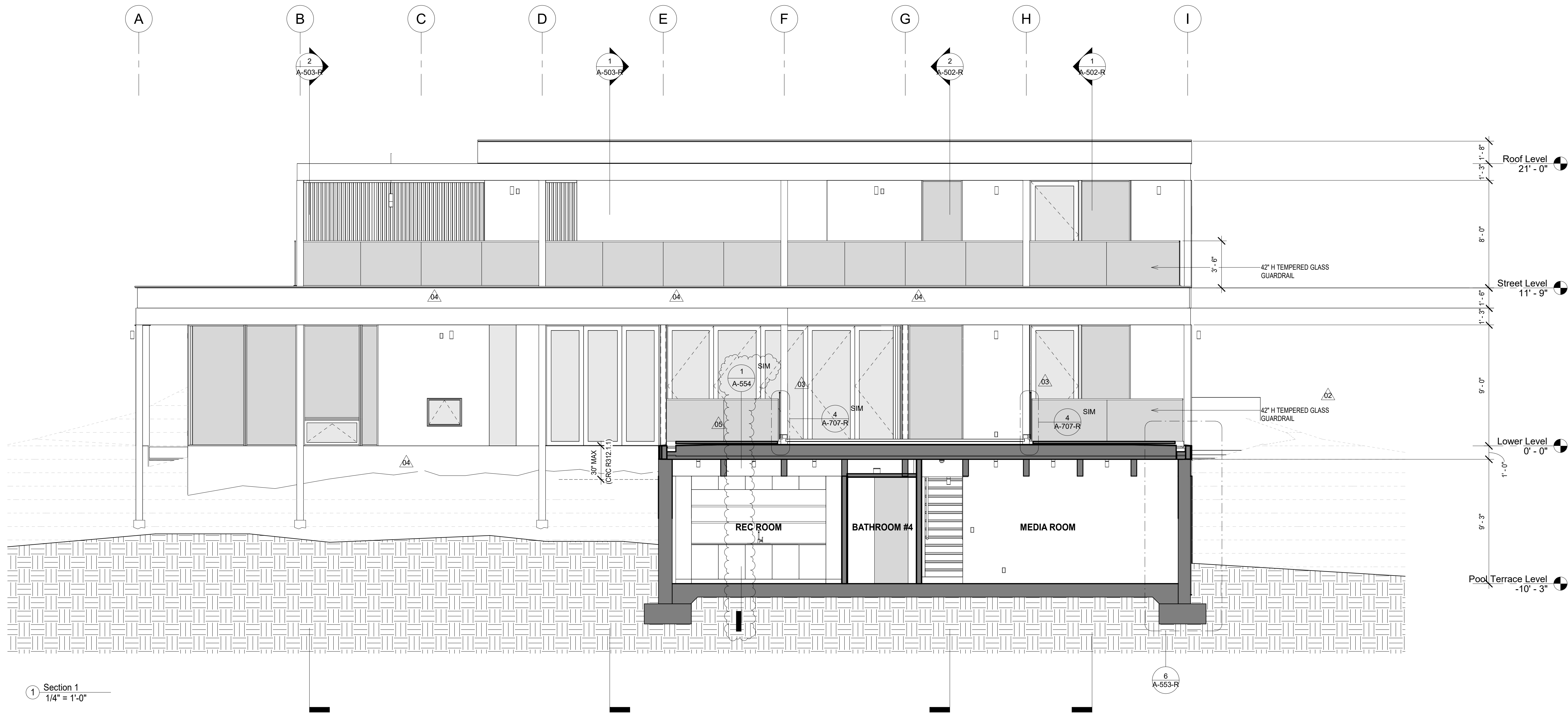
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ELEVATION / SECTION NOTES

- ROOFING SHALL HAVE A CLASS A FIRE RATING PER COUNTY BUILDING CODE 92.2.RB02 AND COUNTY BUILDING CODE 92.1.1505.1
- THE FOLLOWING "R" VALUES SHALL BE MET:
- WALLS: R-21
- FLOORS: R-19
- ROOFS: R-30
- REFER TO SHEET A-600 FOR WINDOW AND DOOR SCHEDULE
- ALL EXPOSED STRUCTURAL MEMBERS SHALL BE SEALED, MATTE FINISH

SHEET SPECIFIC NOTES:

- FILL OVER 2 SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT TO 95%



1 Section 1
1/4" = 1'-0"



2 Section 5
1/4" = 1'-0"

NO	DATE	REASON FOR ISSUE	CHK
05	04/19/24	Bulletin_02	LB
04	08/21/23	Bulletin_01	LB
03	03/30/22	City Plan Check #03	LB
02	03/10/21	City Plan Check #02	LB
01	11/27/19	Plan Check Submission	LB

PERMIT SET

ARCHITECT

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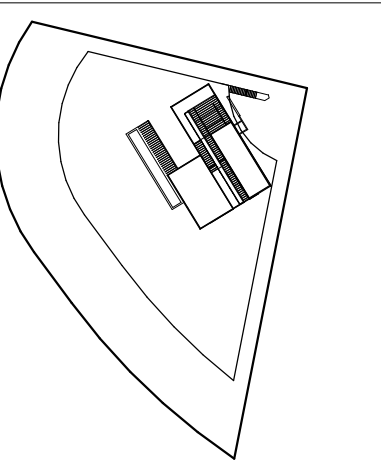
CONSULTANT

CONSULTANT

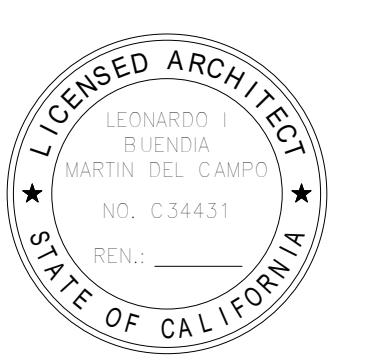
CLIENT

Patricia Dziuk

KEY PLAN



STAMP



PROJECT

Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE

Building Sections

PROJECT NUMBER

DZK-2018-01

DATE

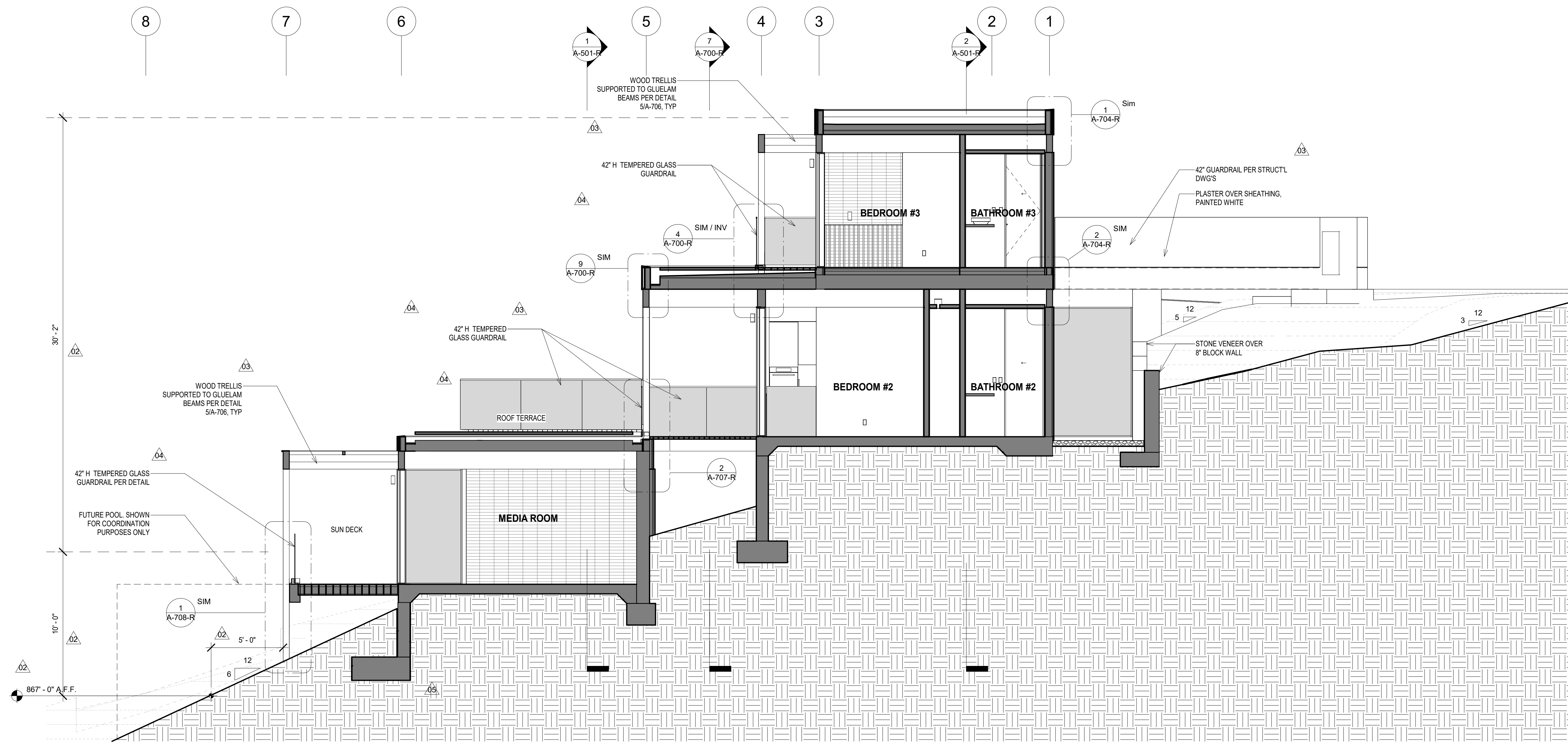
11/27/2019

PROJECT NUMBER

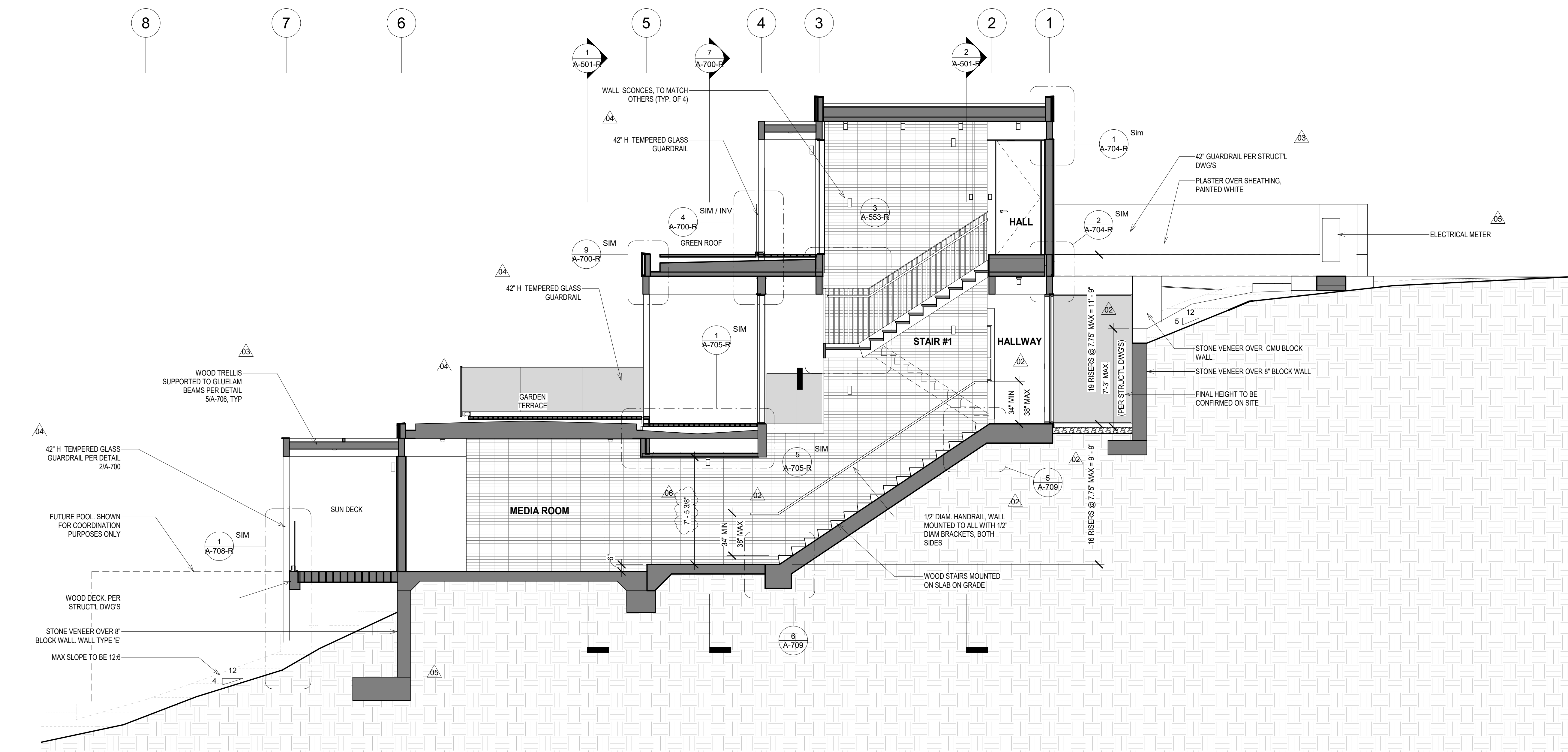
A-501-R

SCALE

1/4" = 1'-0"



Section 4
1/4" = 1'-0"



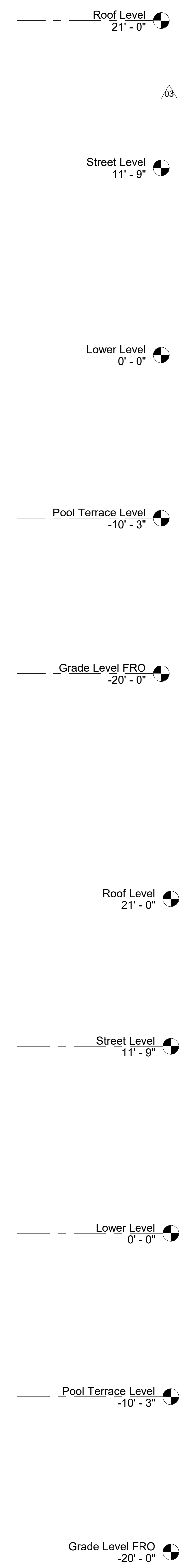
Section 6
1/4" = 1'-0"

ELEVATION / SECTION NOTES

- ROOFING SHALL HAVE A CLASS A FIRE RATING PER COUNTY BUILDING CODE 92.2.R902 AND COUNTY BUILDING CODE 92.1.1505.1
- THE FOLLOWING "R" VALUES SHALL BE MET:
- WALLS: R-21
- FLOORS: R-19
- ROOFS: R-30
- REFER TO SHEET A-600 FOR WINDOW AND DOOR SCHEDULE
- ALL EXPOSED STRUCTURAL MEMBERS SHALL BE SEALED, MATTE FINISH

SHEET SPECIFIC NOTES:

- FILL OVER Z SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT TO 90%



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NO	DATE	REASON FOR ISSUE	CHK
06	04/19/24	Bulletin_02	LB
05	08/21/23	Bulletin_01	LB
04	03/30/22	City Plan Check #03	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

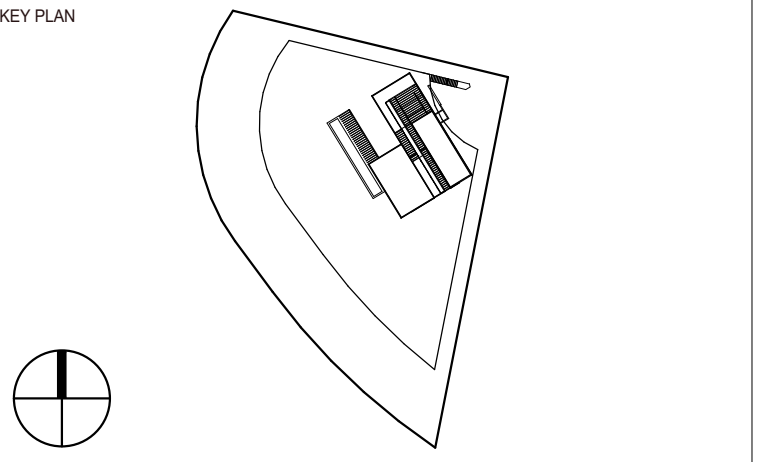
PERMIT SET

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619.410.1432 lb@leonardobuendia.com

CONSULTANT

CONSULTANT

CLIENT
Patricia Dziuk



PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Building Sections

PROJECT DZK-2018-01	DATE 11/27/2019
NUMBER A-502-R	SCALE 1/4" = 1'-0"

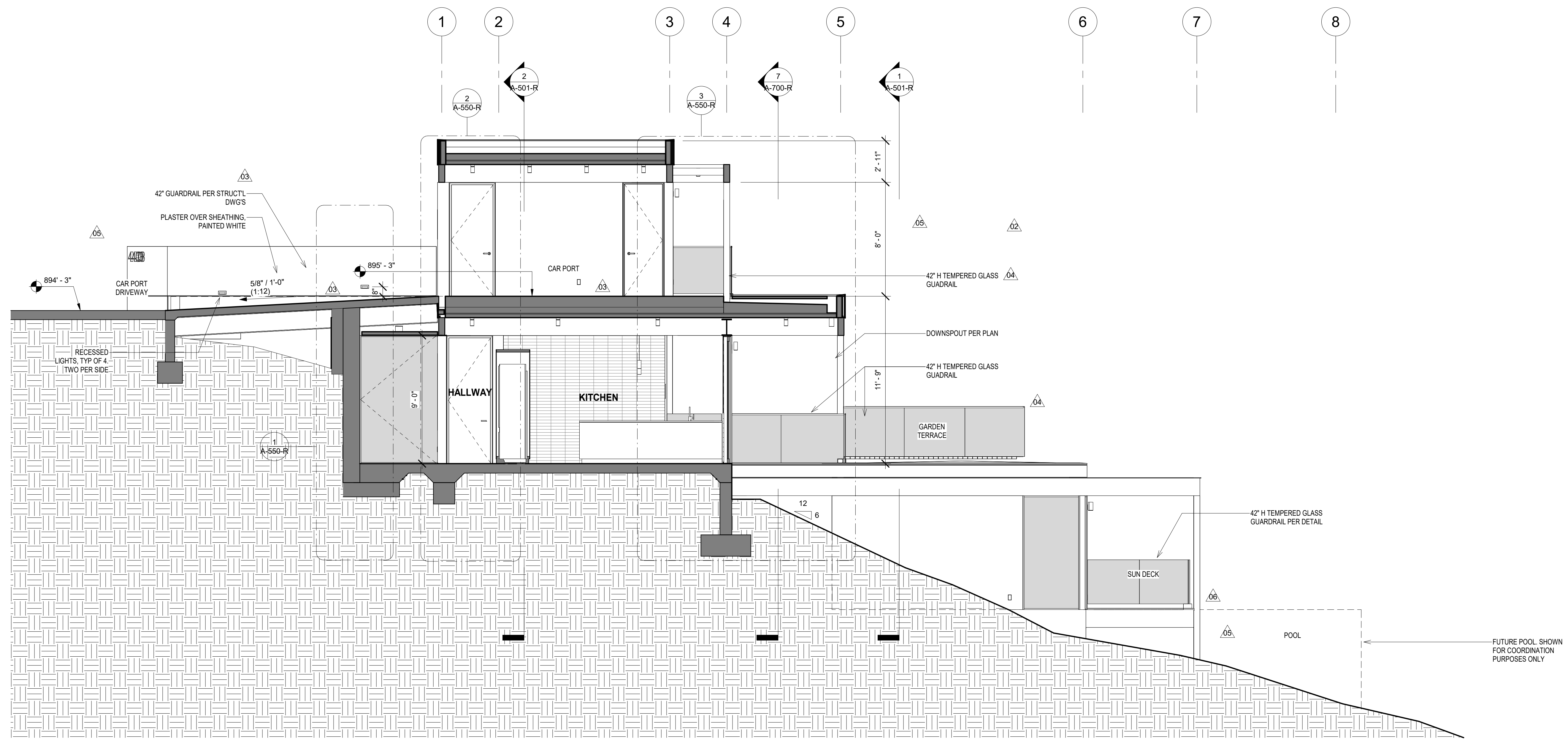
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ELEVATION / SECTION NOTES

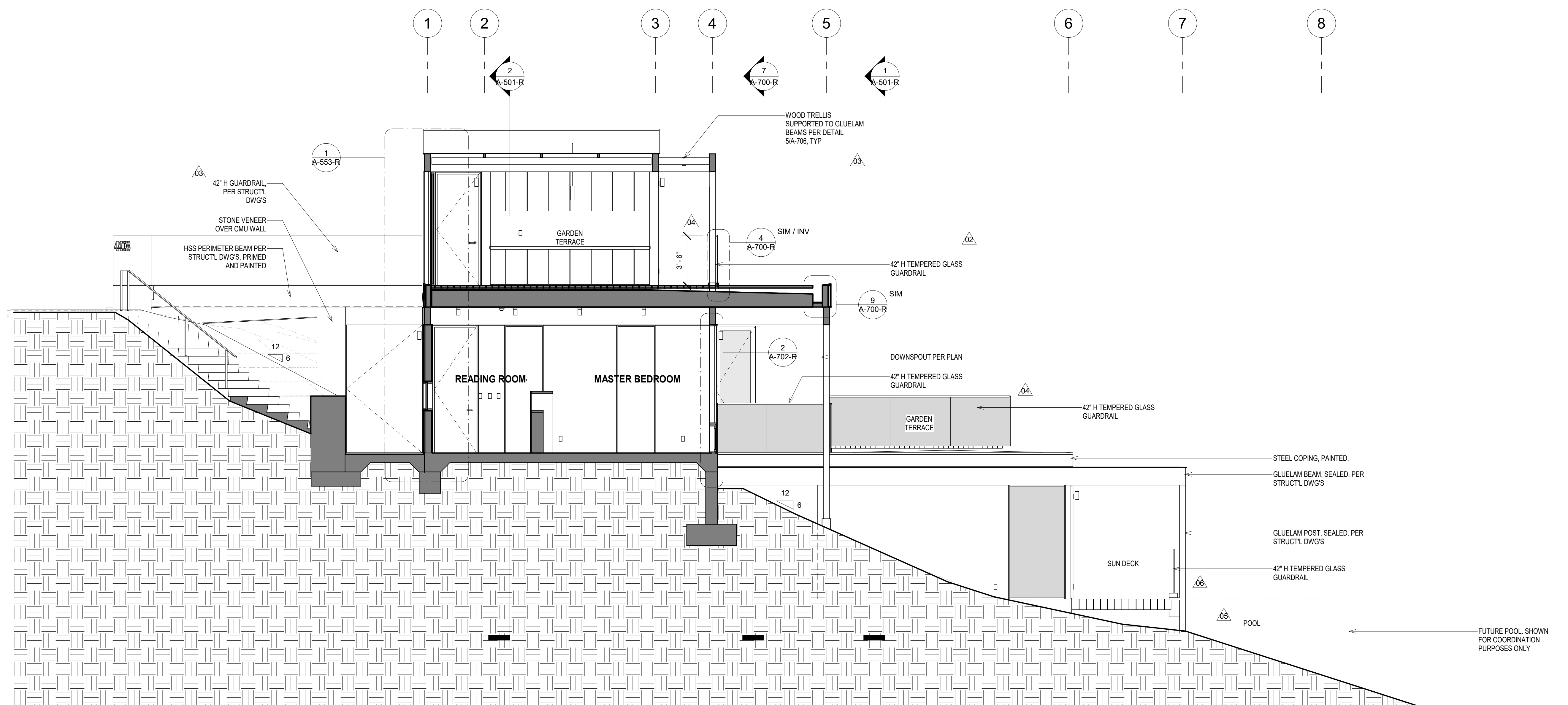
- ROOFING SHALL HAVE A CLASS A FIRE RATING PER COUNTY BUILDING CODE 92.2.RR02 AND COUNTY BUILDING CODE 92.1.1565.1
- THE FOLLOWING "R" VALUES SHALL BE MET:
 - WALLS: R-21
 - FLOORS: R-19
 - ROOFS: R-30
- REFER TO SHEET A-600 FOR WINDOW AND DOOR SCHEDULE
- ALL EXPOSED STRUCTURAL MEMBERS SHALL BE SEALED, MATTE FINISH

SHEET SPECIFIC NOTES:

- FILL OVER 2" SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT TO 90%



1 Section 2
1/4" = 1'-0"



2 Section 3
1/4" = 1'-0"

NO	DATE	REASON FOR ISSUE	CHK
06	12/06/23	City Plan Check #05	LB
05	08/21/23	Bulletin_01	LB
04	03/30/22	City Plan Check #03	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

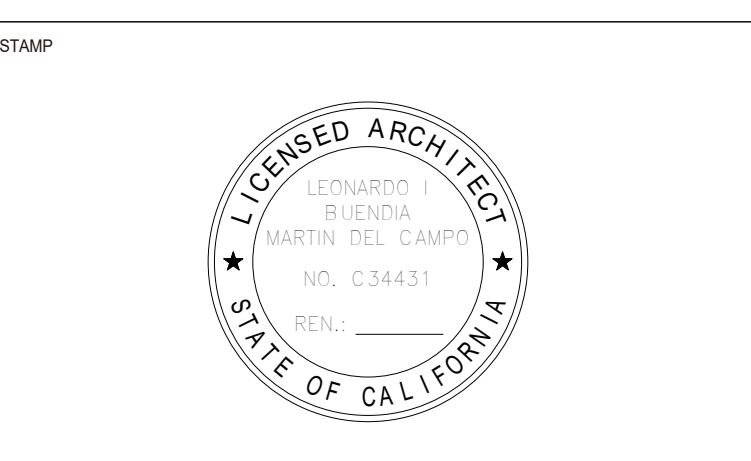
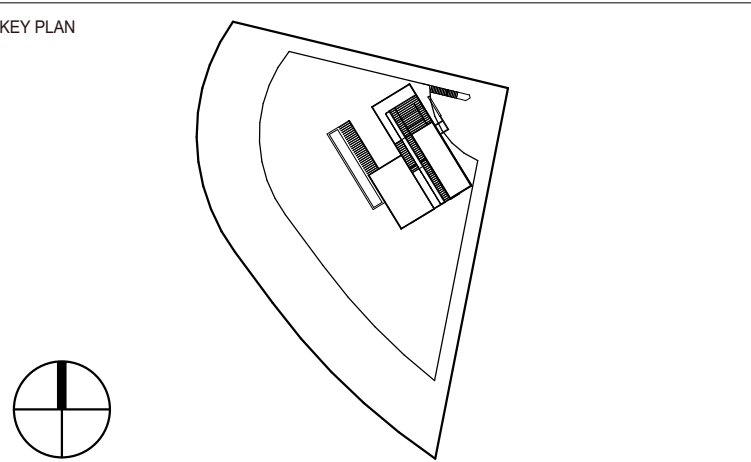
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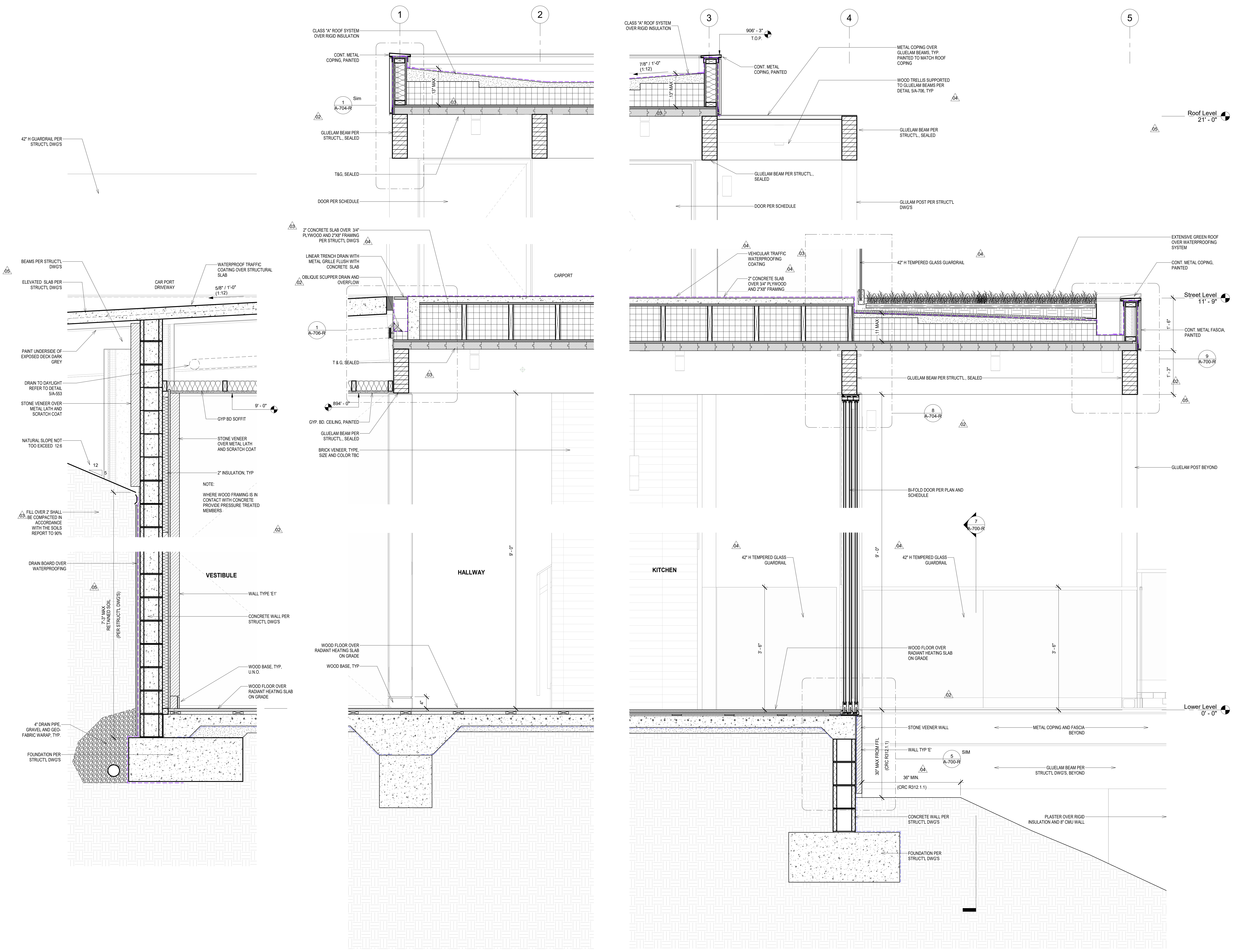
CLIENT
Patricia Dziuk



PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Building Sections

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-503-R	1/4" = 1'-0"



1 Wall Section 04
1" = 1'-0"

2 Wall Section 03
1" = 1'-0"

3 Wall Section 01
1" = 1'-0"

NO	DATE	REASON FOR ISSUE	CHK
05	08/21/23	Bulletin_01	LB
04	03/30/22	City Plan Check #03	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

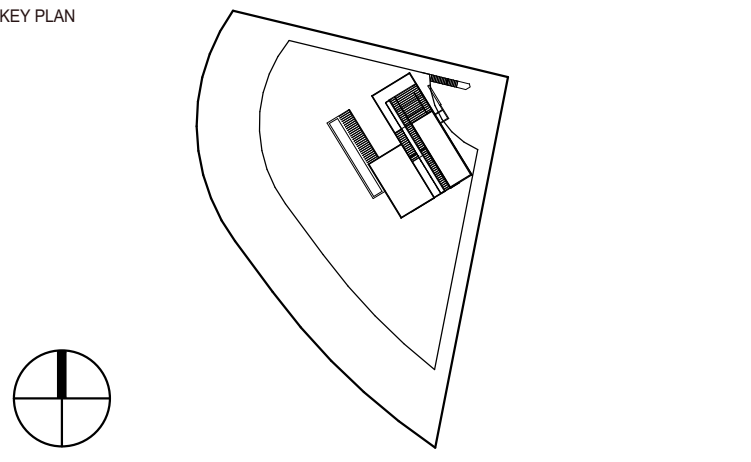
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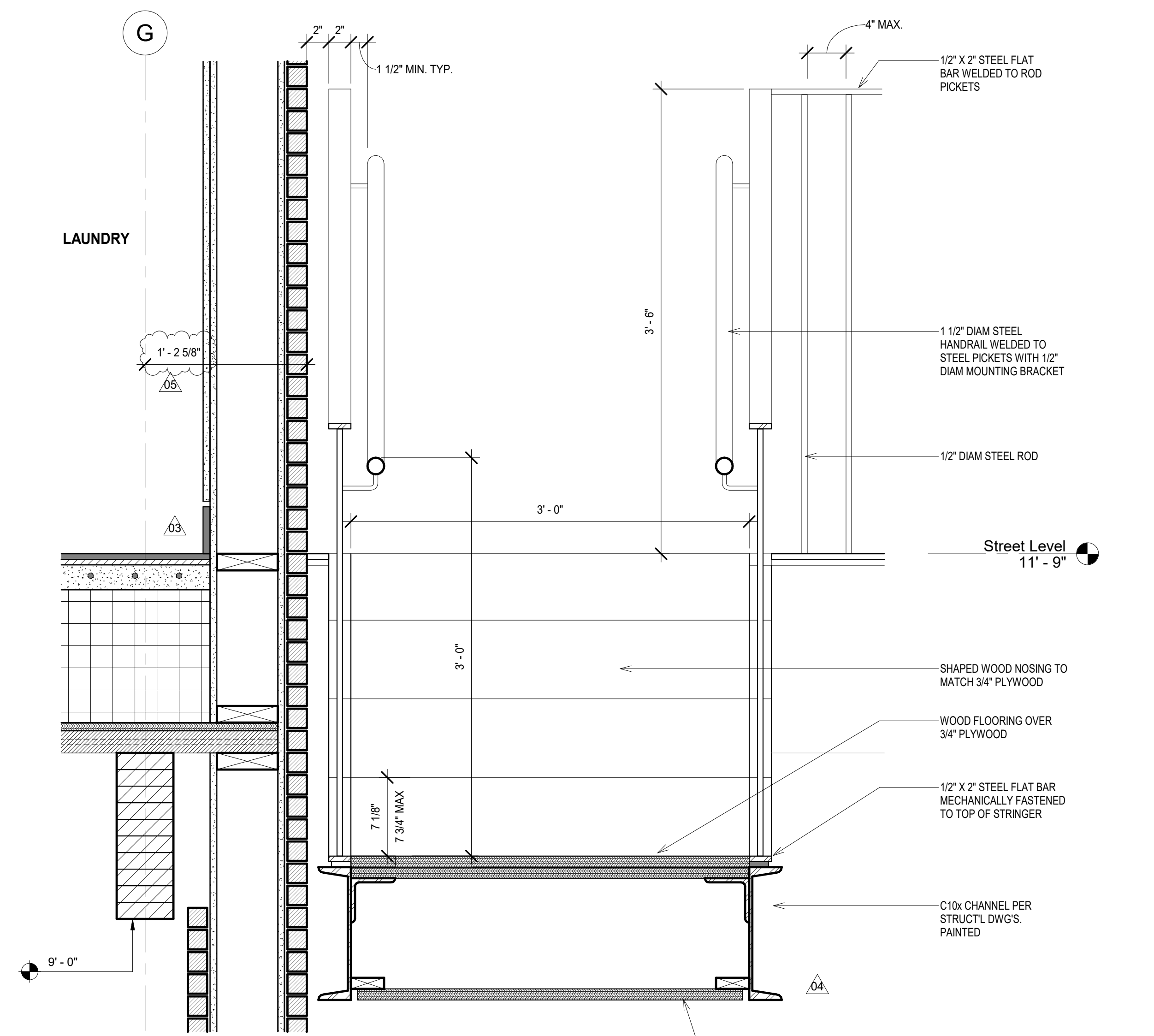
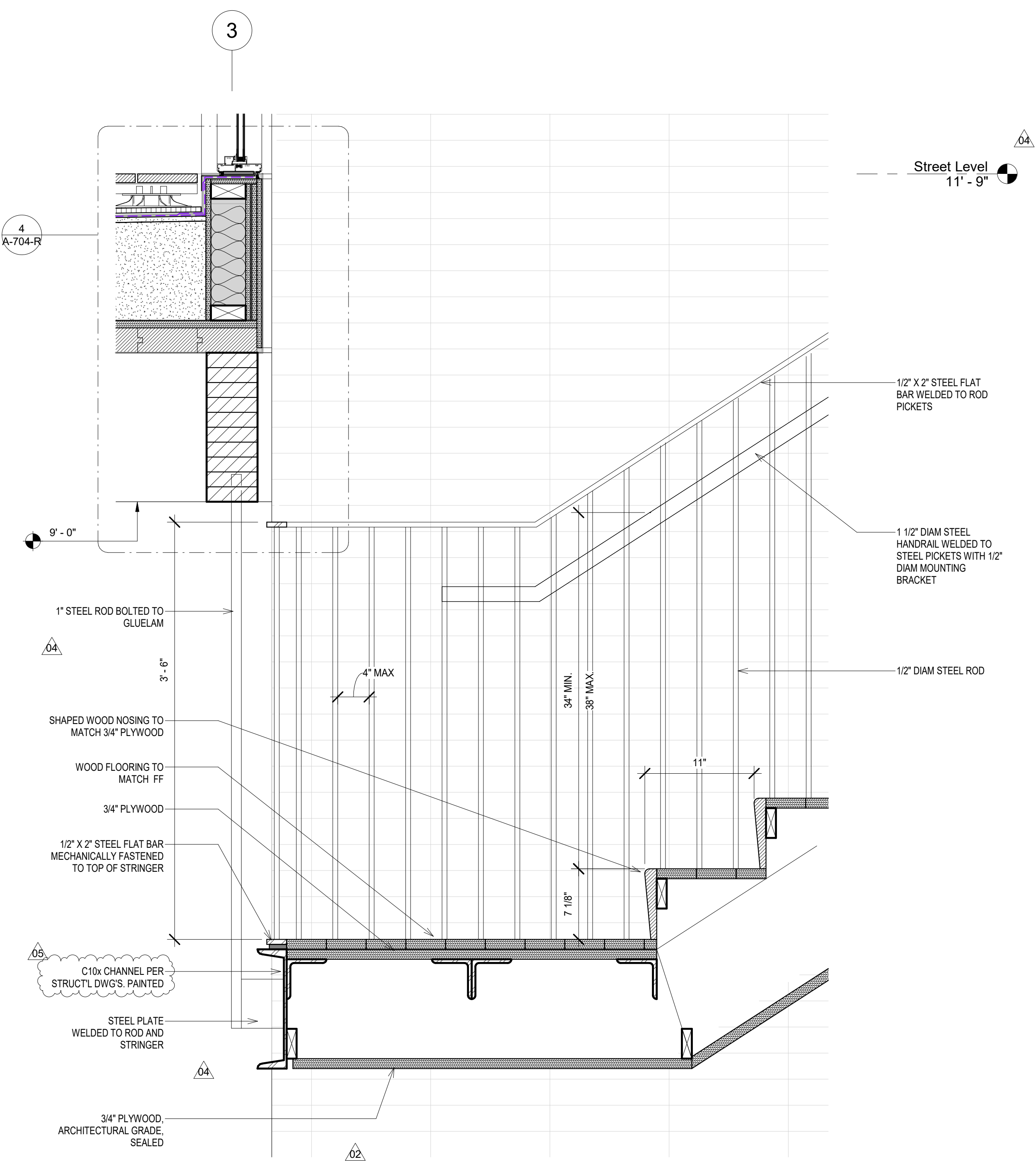
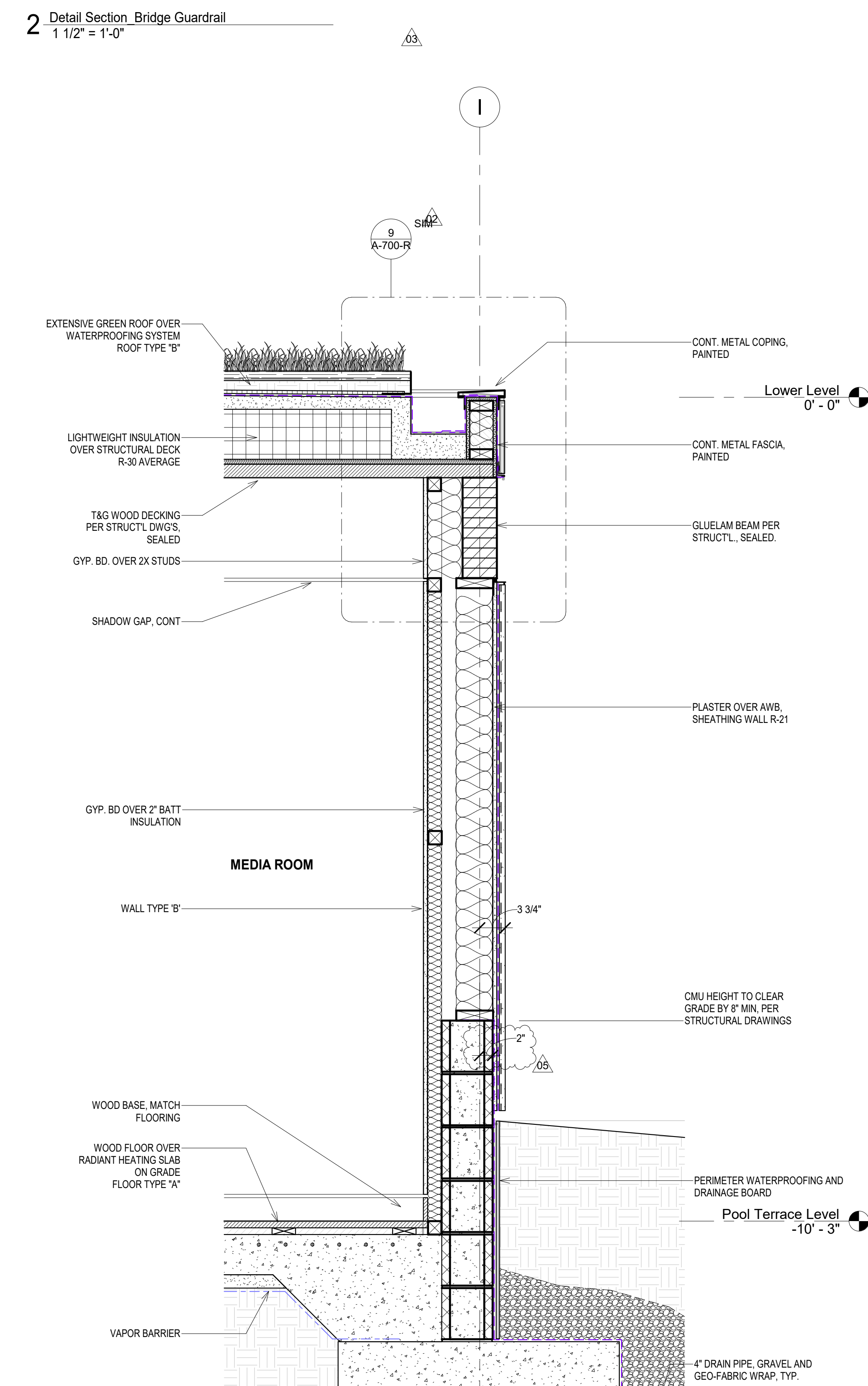
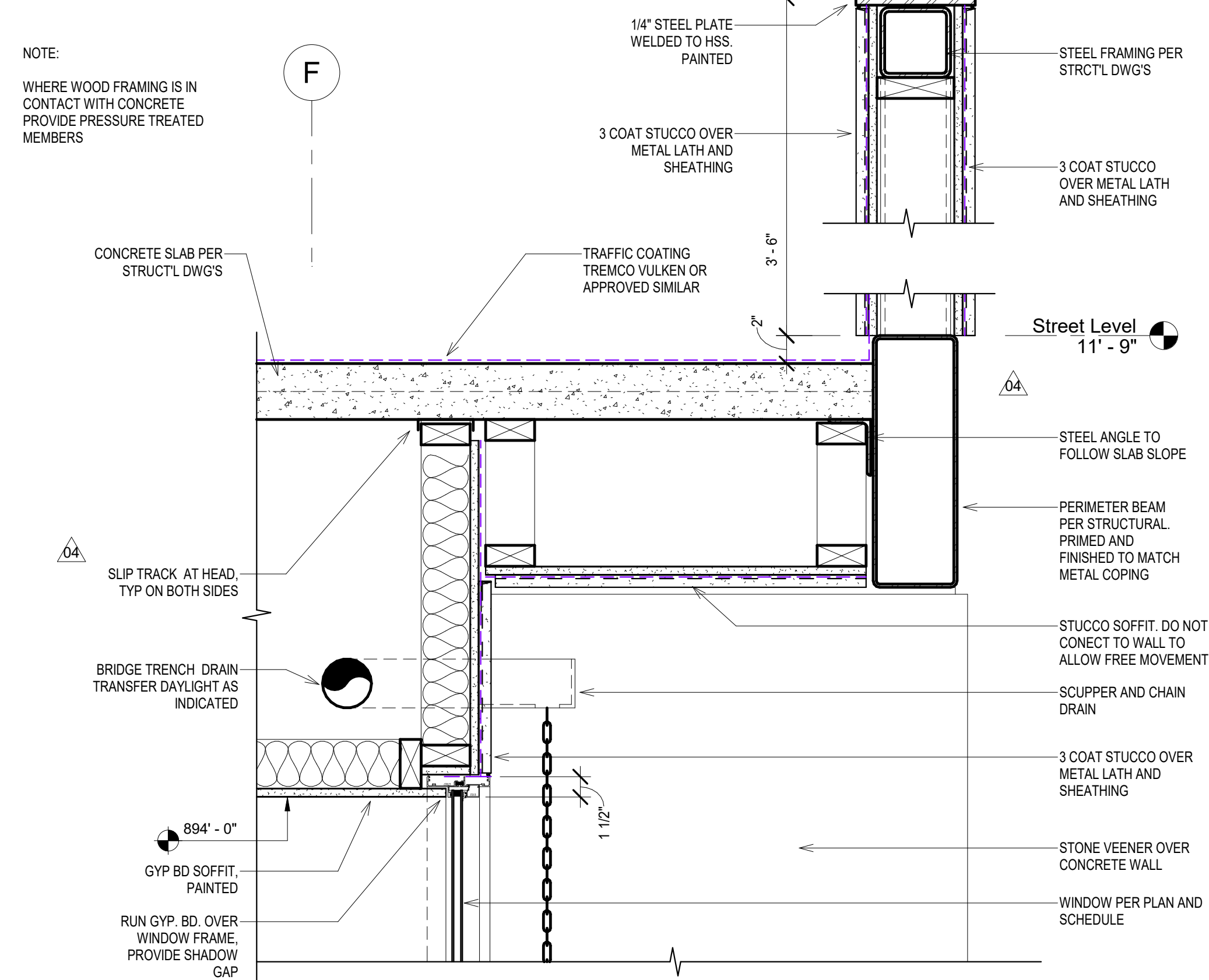
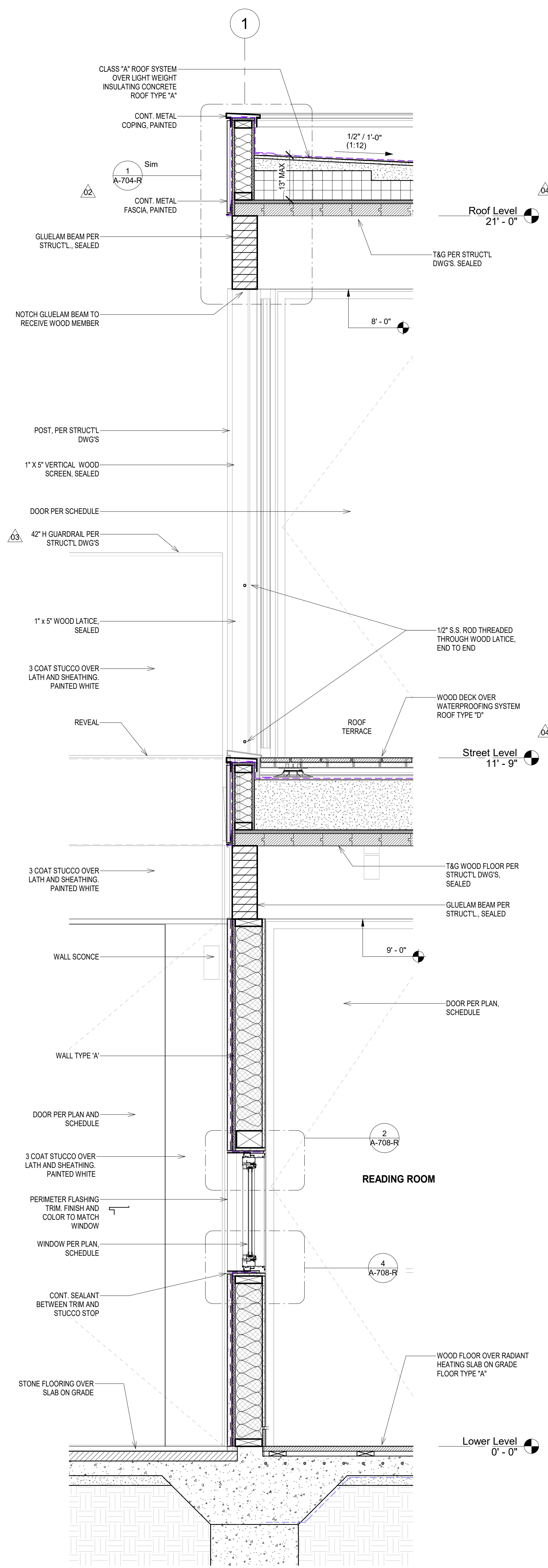


PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Wall Sections

PROJECT NUMBER	DATE
DZK-2018-01	11/27/2019
A-550-R	SCALE 1" = 1'-0"

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NO	DATE	REASON FOR ISSUE	CHK
05	04/19/24	Bulletin_02	LB
04	08/21/23	Bulletin_01	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

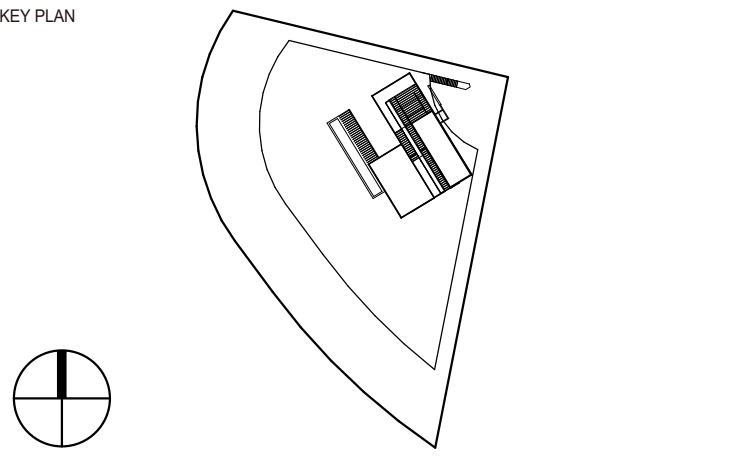
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PROJECT
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4403 Alta Mira Drive
La Mesa, CA 91941

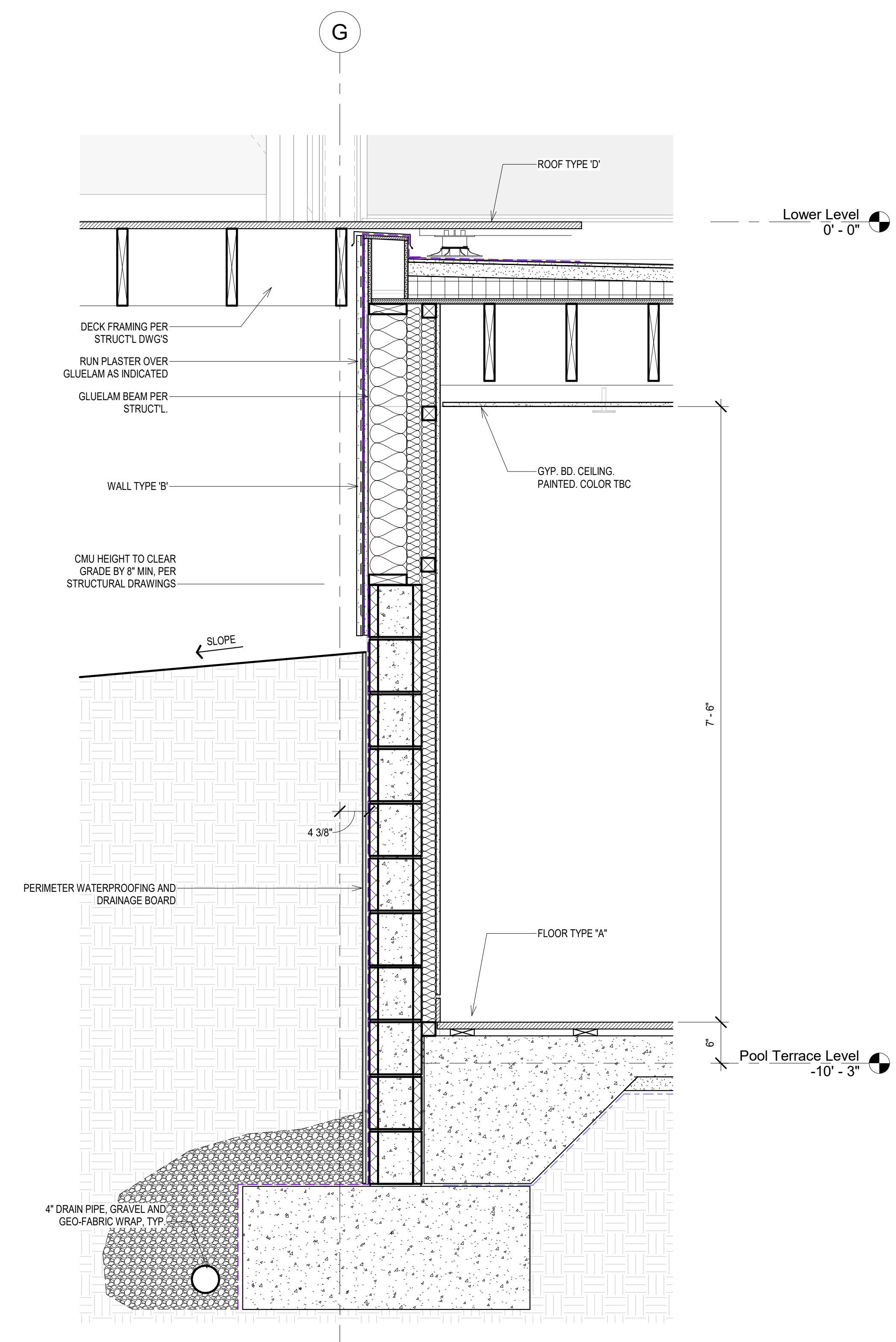
TITLE
Wall Sections

PROJECT
DZK-2018-01

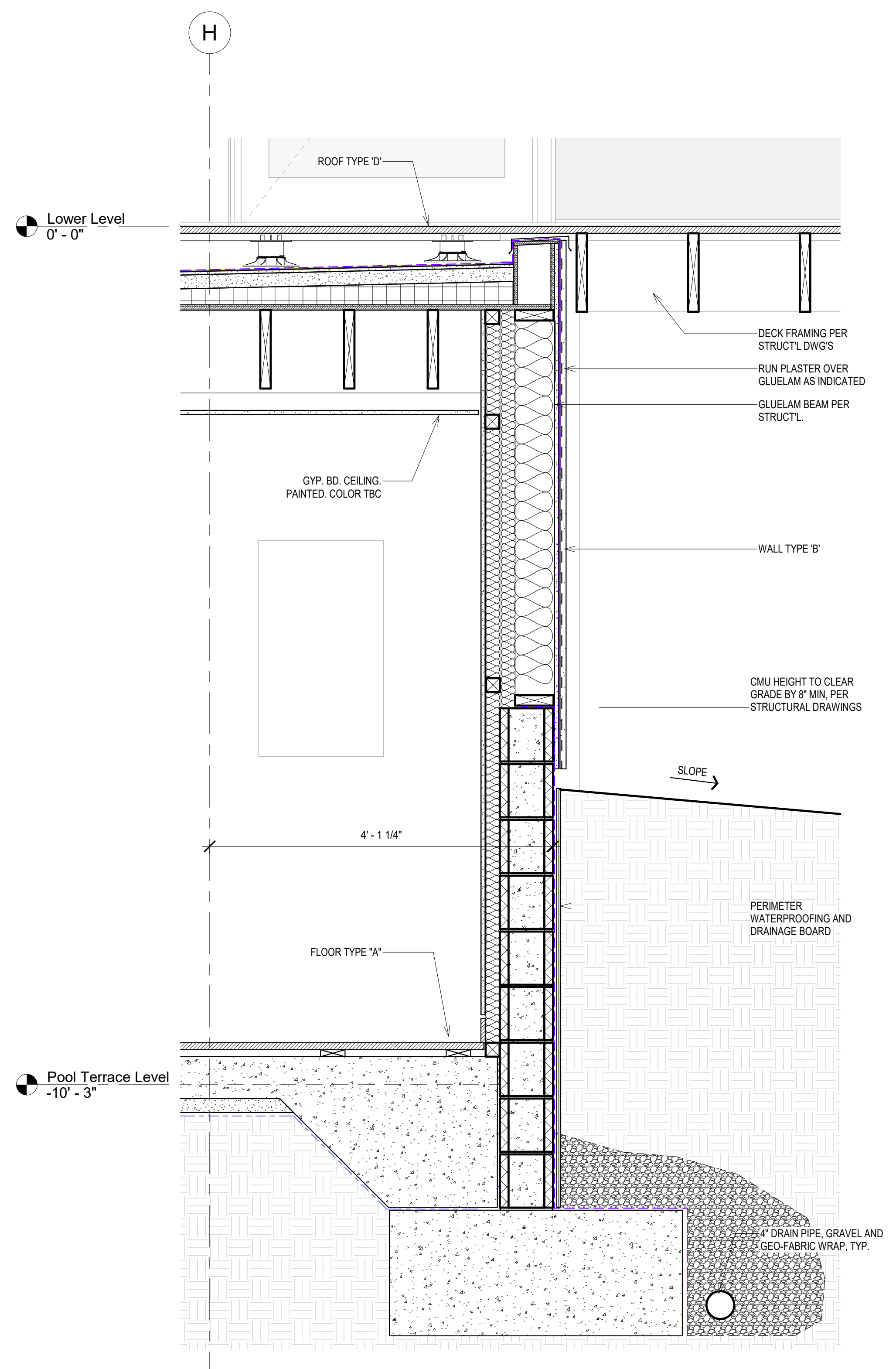
DATE
11/27/2019

NUMBER
A-553-R

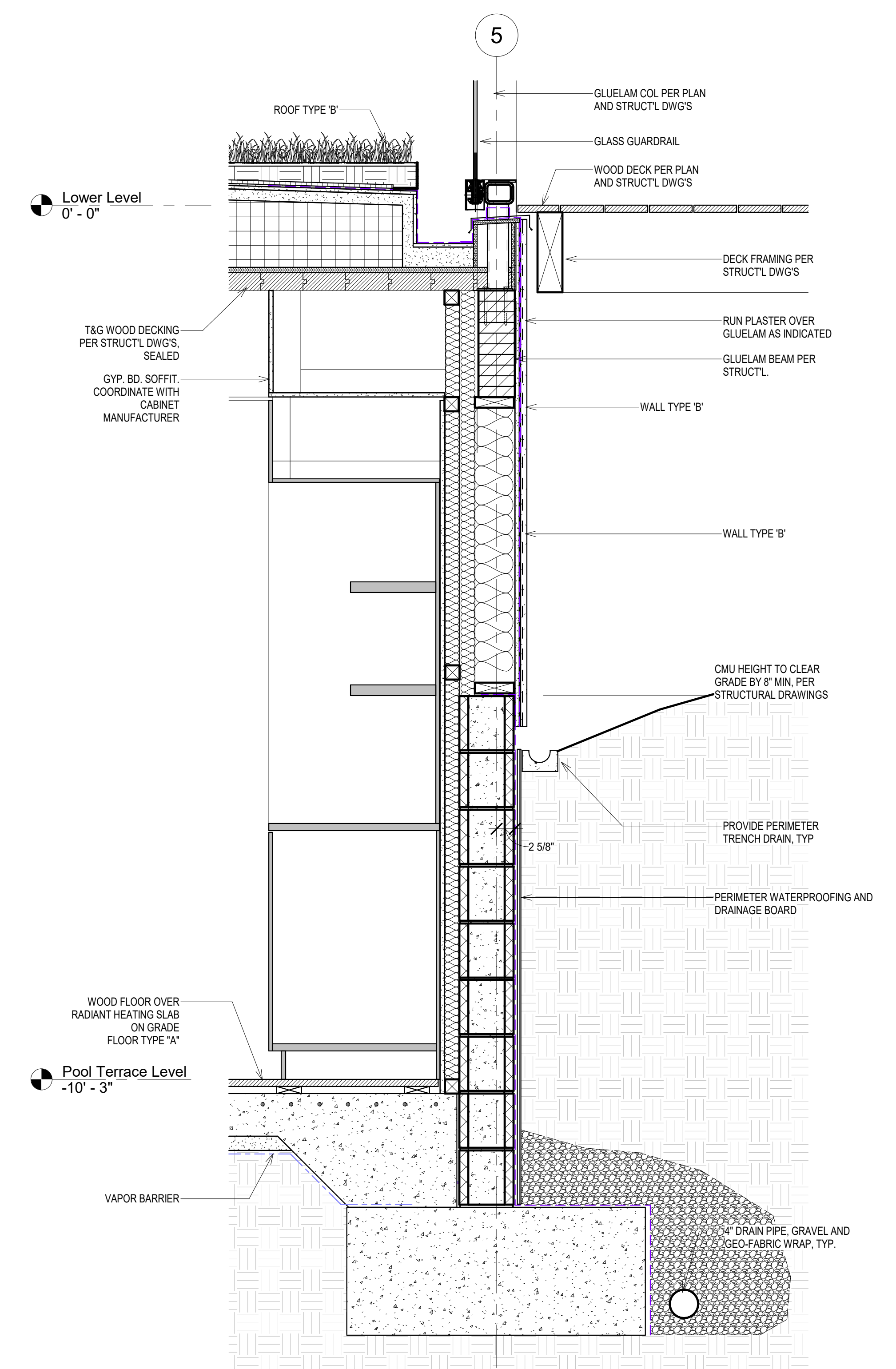
SCALE
As indicated



3 Wall Section Pool Terrace_GLG
1" = 1'-0"



2 Wall Section Pool Terrace_GLH
1" = 1'-0"



1 Wall Section Pool Terrace_GL5
1" = 1'-0"

01	04/19/24	Bulletin_02	LB
NO	DATE	REASON FOR ISSUE	CHK

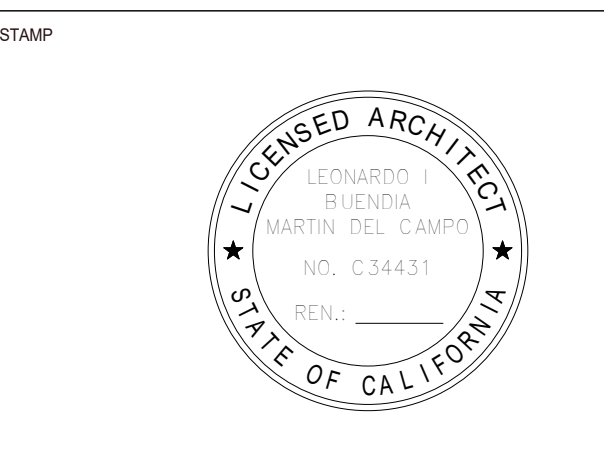
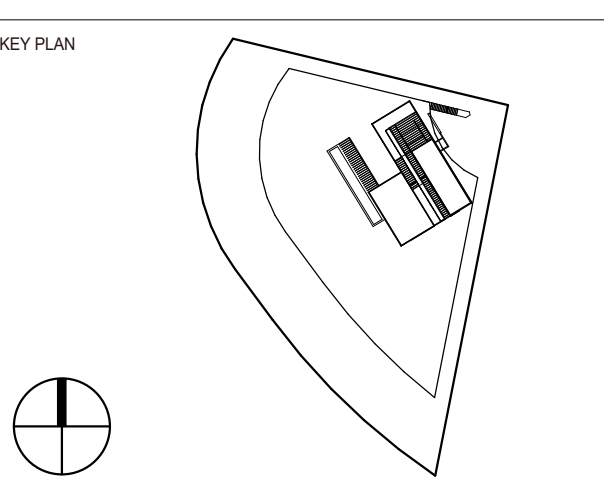
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Patricia Dziuk



PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Wall Sections

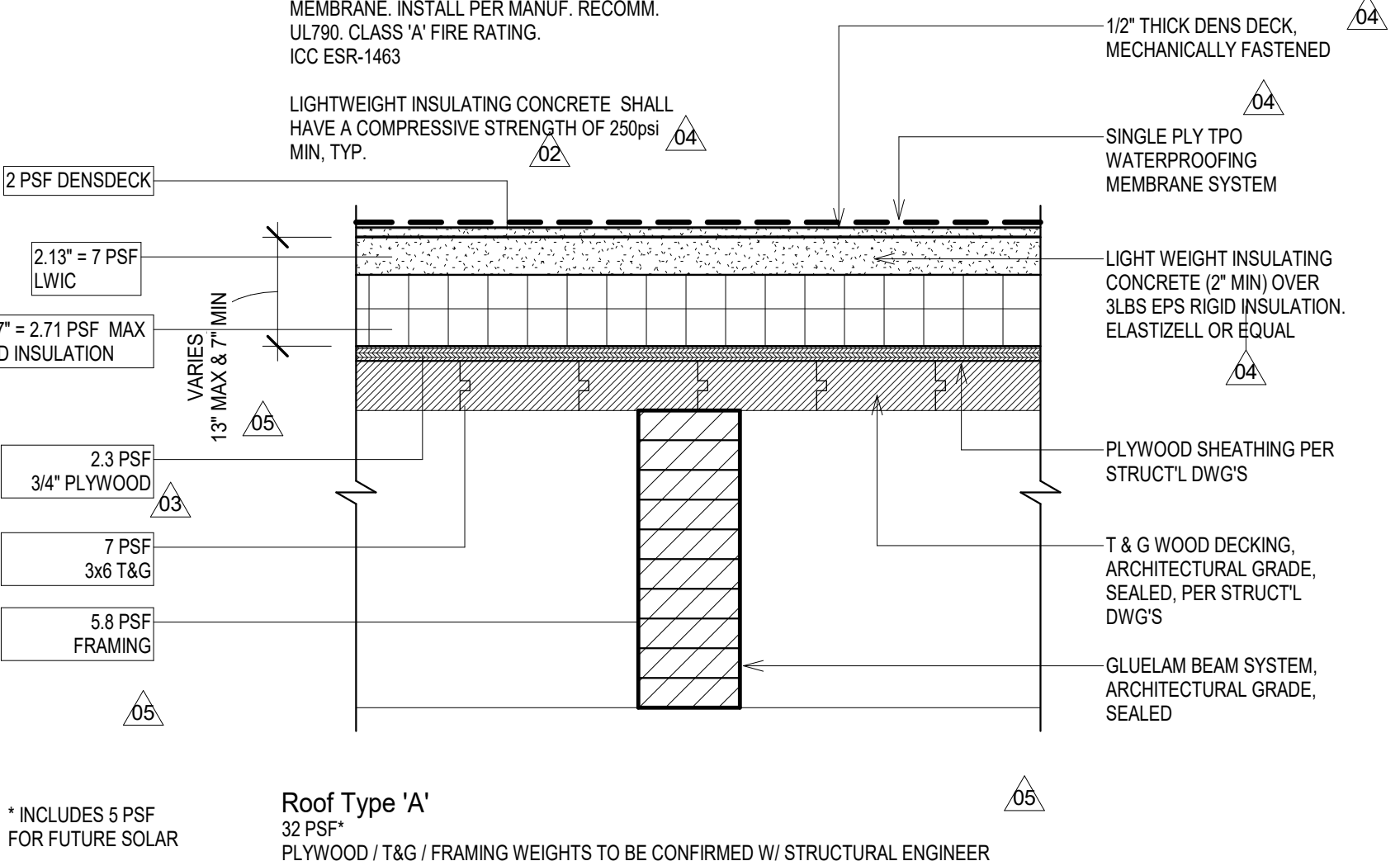
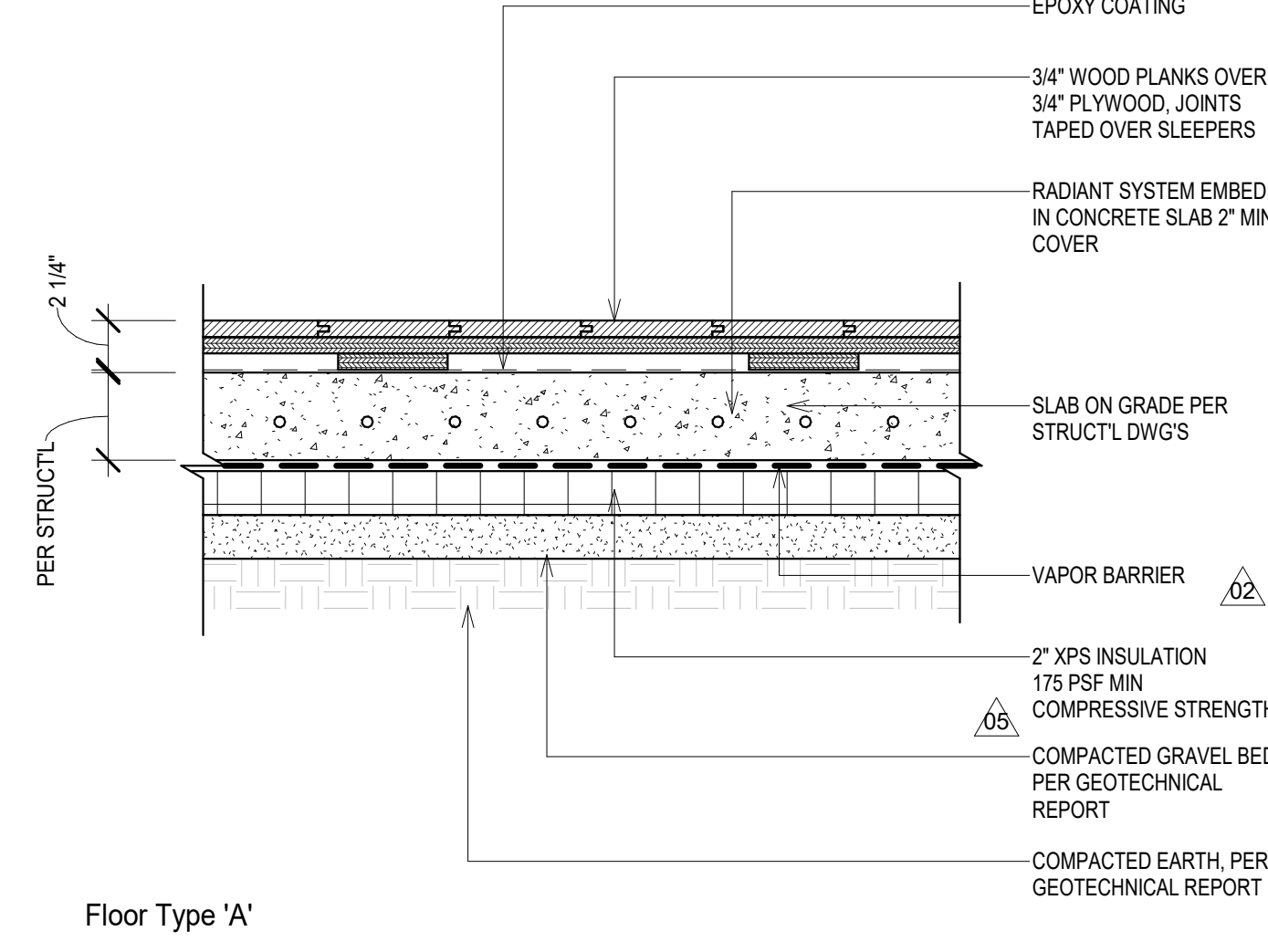
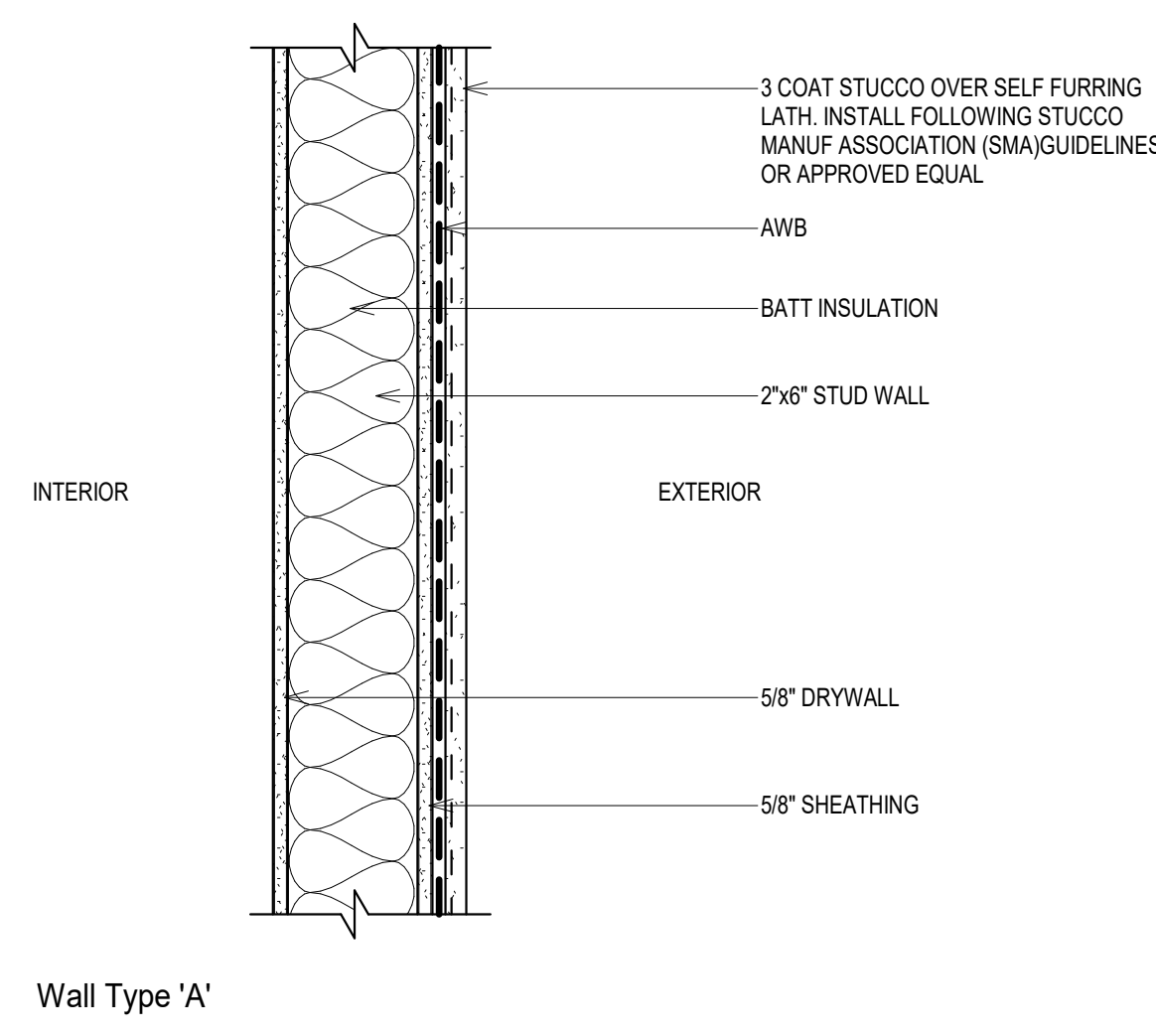
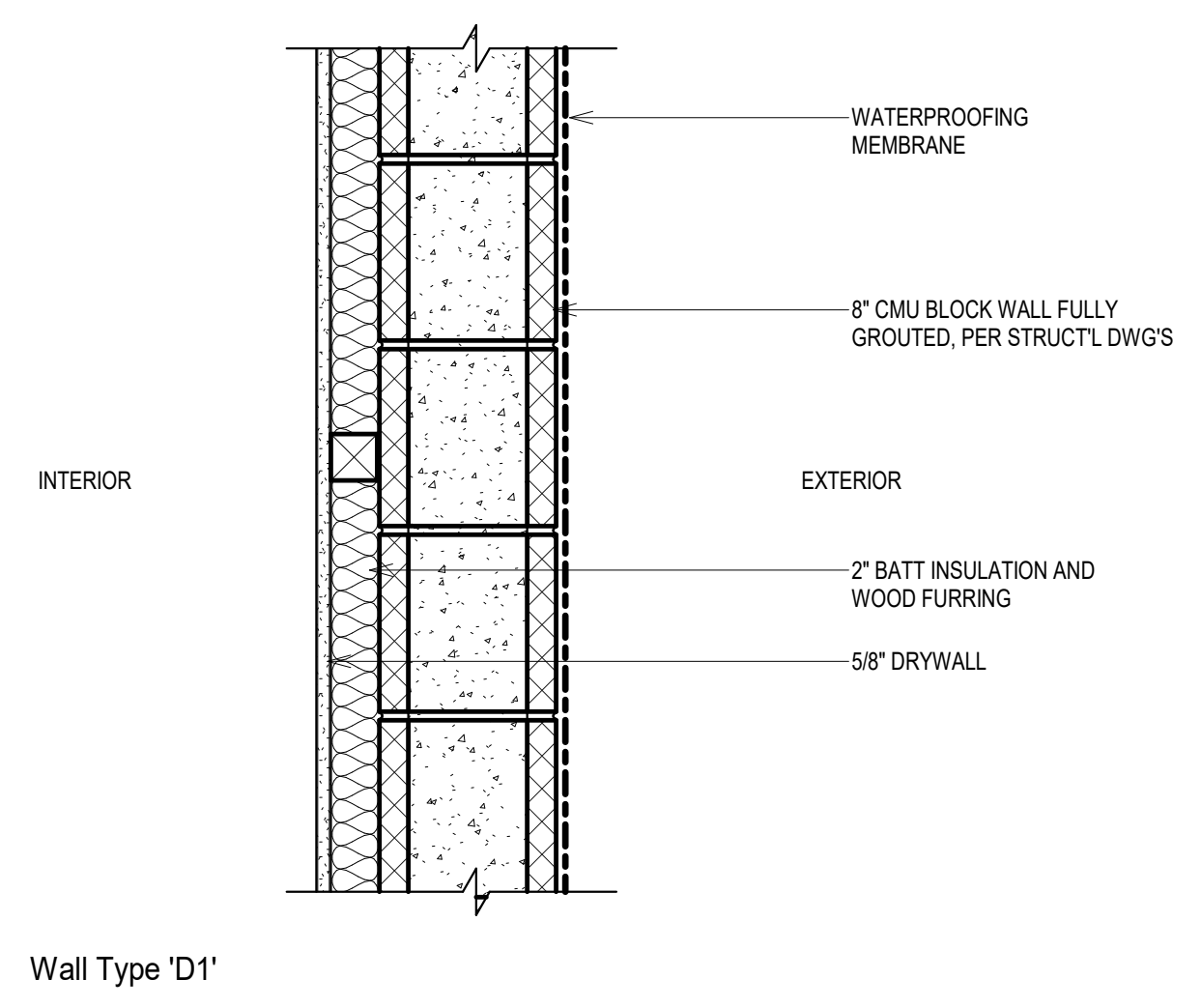
PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-554	1" = 1'-0"

WALL ASSEMBLIES

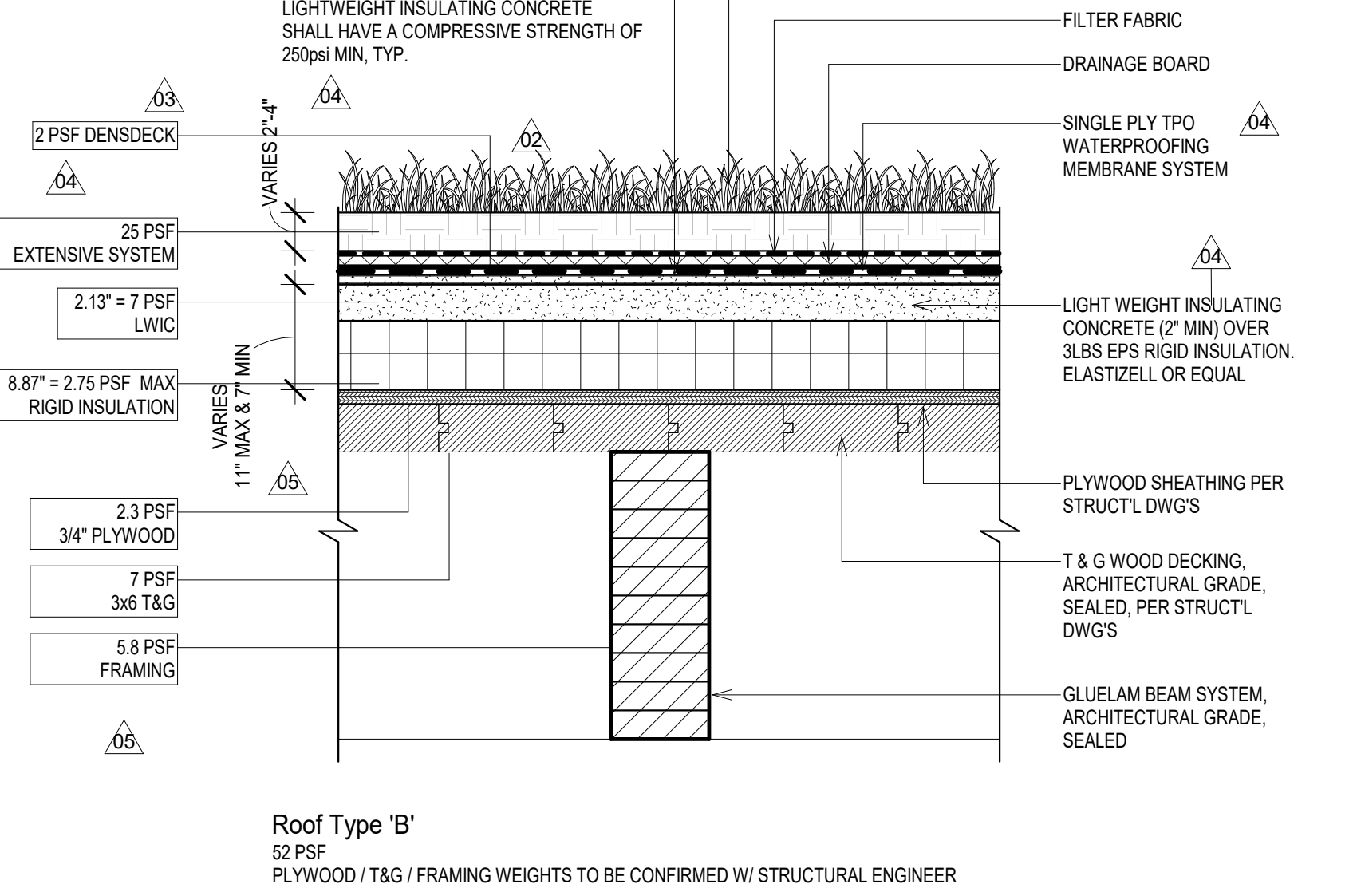
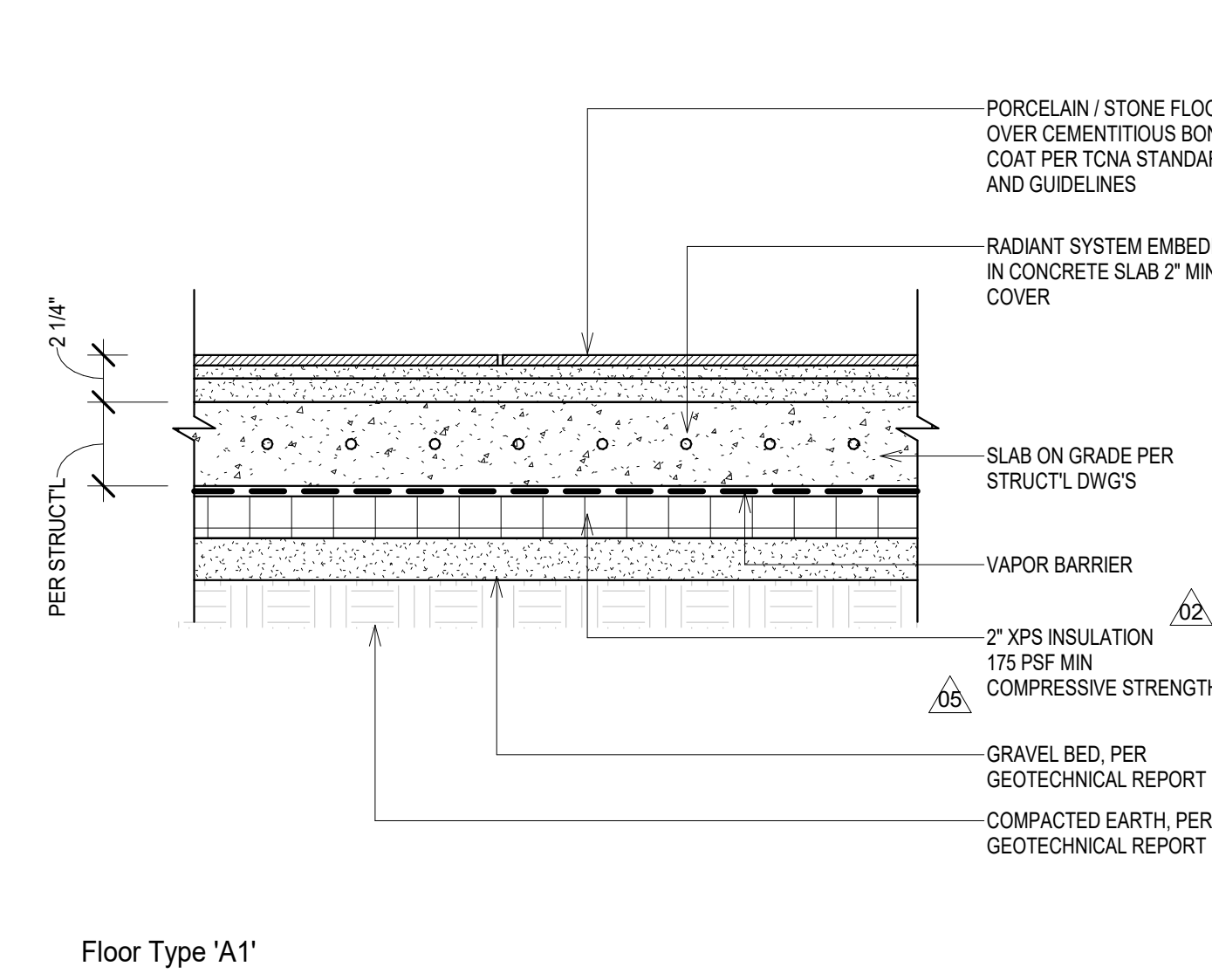
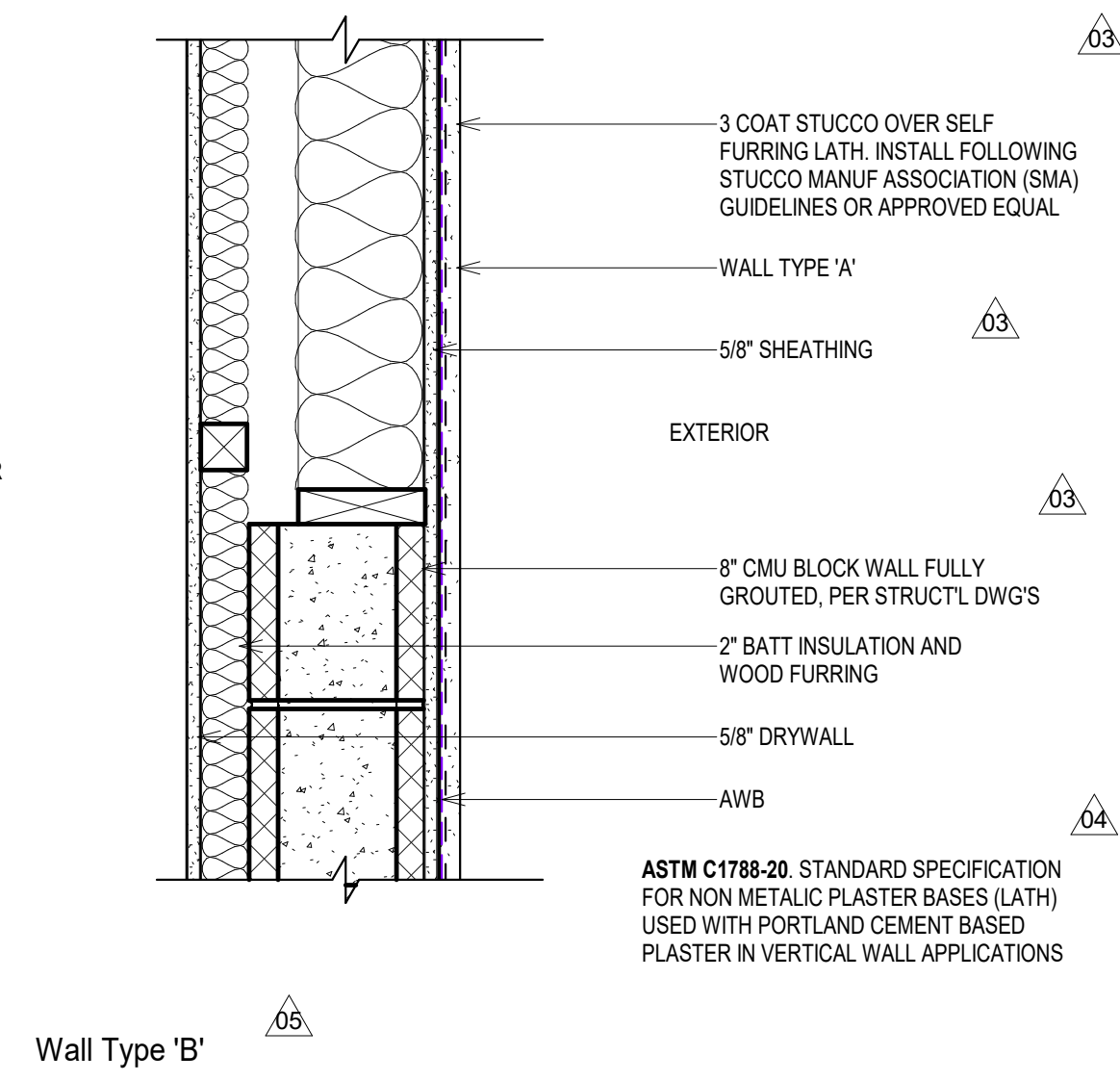
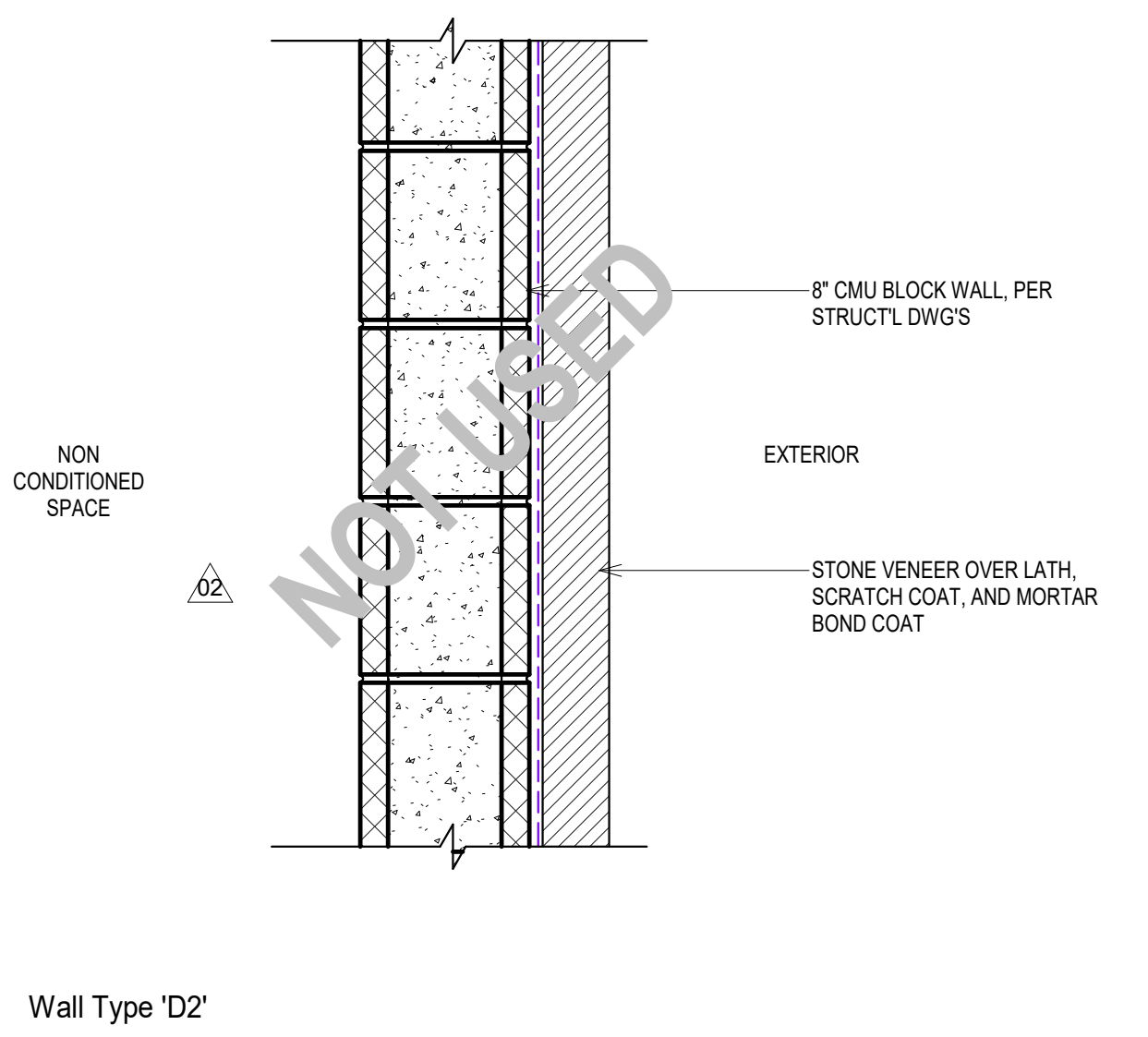
WALL ASSEMBLIES

FLOOR ASSEMBLIES

ROOF ASSEMBLIES



ROOF ASSEMBLY NOTES:
 ROOF ASSEMBLIES SHALL MEET FM 4470 - APPROVAL STANDARD FOR SINGLE PLY, POLYMER-MODIFIED BITUMEN SHEET, BUILT-UP ROOF (BUR) AND LIQUID APPLIED ROOF ASSEMBLIES FOR USE IN CLASS 1 AND NONCOMBUSTIBLE ROOF DECK CONSTRUCTION. UL 1887 - SAFETY TESTING FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES. UL 1887 - UPLIFT TESTS FOR ROOF COVERING SYSTEMS. UL 790 STANDARD FOR STANDARD TEST METHODS FOR FIRE TESTS OF ROOF COVERINGS.
 LIGHTWEIGHT INSULATING CONCRETE (LWIC) SHALL MEET FM 4454 - APPROVAL STANDARD FOR LIGHTWEIGHT INSULATING CONCRETE FOR USE IN CLASS 1 AND NONCOMBUSTIBLE ROOF CONSTRUCTIONS.
 LWIC INSTALLATION NOTES:
 INSTALL THE INSULATING CONCRETE ROOF DECK SYSTEM IN ACCORDANCE WITH CURRENT PRACTICES TO INSURE PROPER DRAINAGE, THE REQUIRED INSULATION VALUE, AND FIRE AND UPLIFT RATINGS.
 INSTALL INSULATION BOARD ACCORDING TO LIGHTWEIGHT INSULATING CONCRETE MANUFACTURER'S WRITTEN INSTRUCTIONS. PLACE INSULATION BOARD IN WET. LIGHTWEIGHT INSULATING CONCRETE SLURRY POURED A MINIMUM OF 1/8 INCH OVER THE STRUCTURAL SUBSTRATE. ENSURE FULL CONTACT OF INSULATION BOARD WITH SLURRY. STAGGER JOINTS AND TIGHTLY BUTT INSULATION BOARDS. ALLOW SLURRY COAT TO SET PRIOR TO PLACING REMAINING THICKNESS OF LIGHTWEIGHT INSULATING CONCRETE.
 INSTALL INSULATION BOARD IN A STAIR-STEP CONFIGURATION WITH A MAXIMUM STEP-DOWN OF 1 INCH.



NO	DATE	REASON FOR ISSUE	CHK
05	08/21/23	Bulletin_01	LB
04	03/30/22	City Plan Check #03	LB
03	03/10/21	City Plan Check #01	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

PERMIT SET

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Patricia Dziuk

KEY PLAN

STAMP



PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

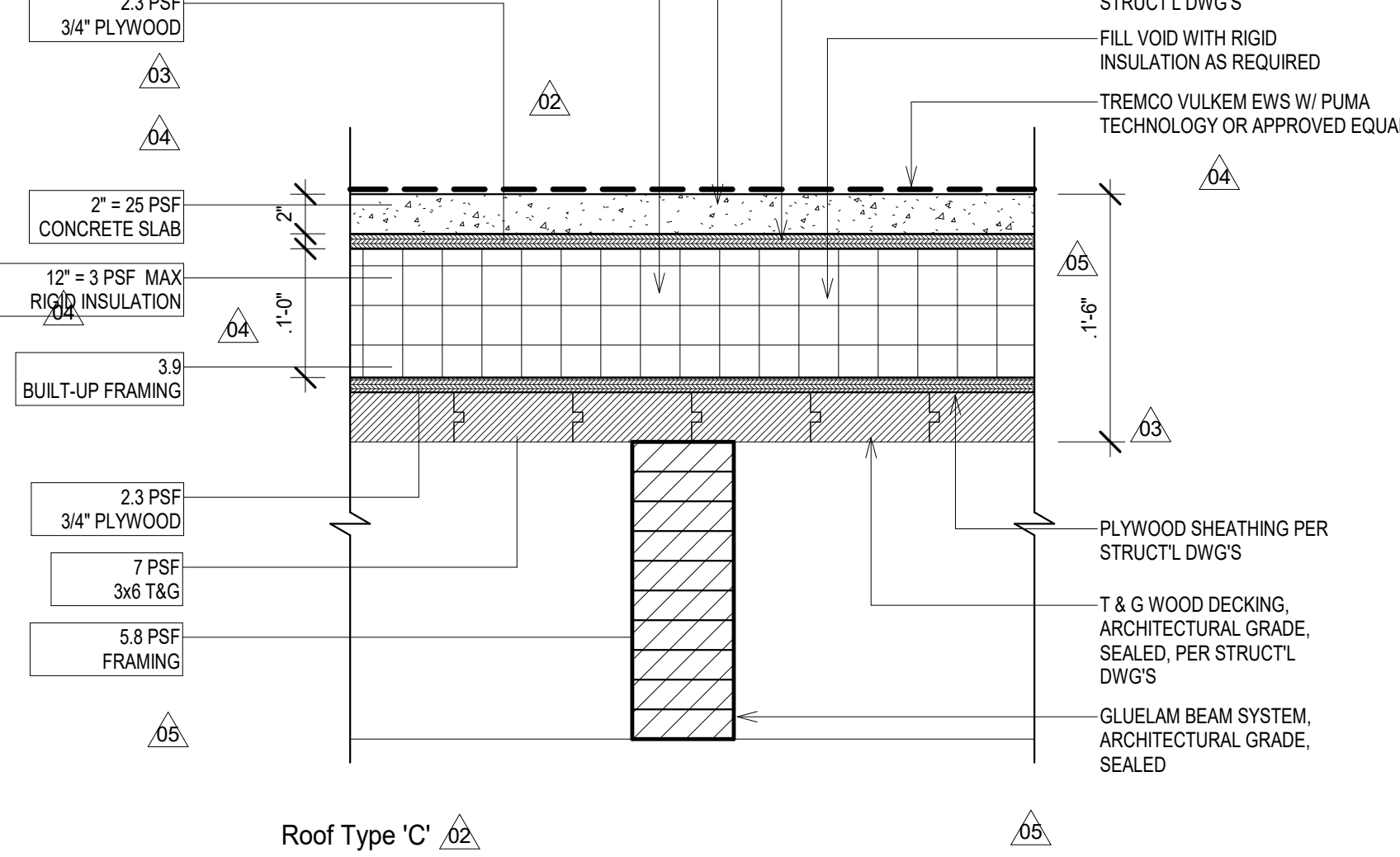
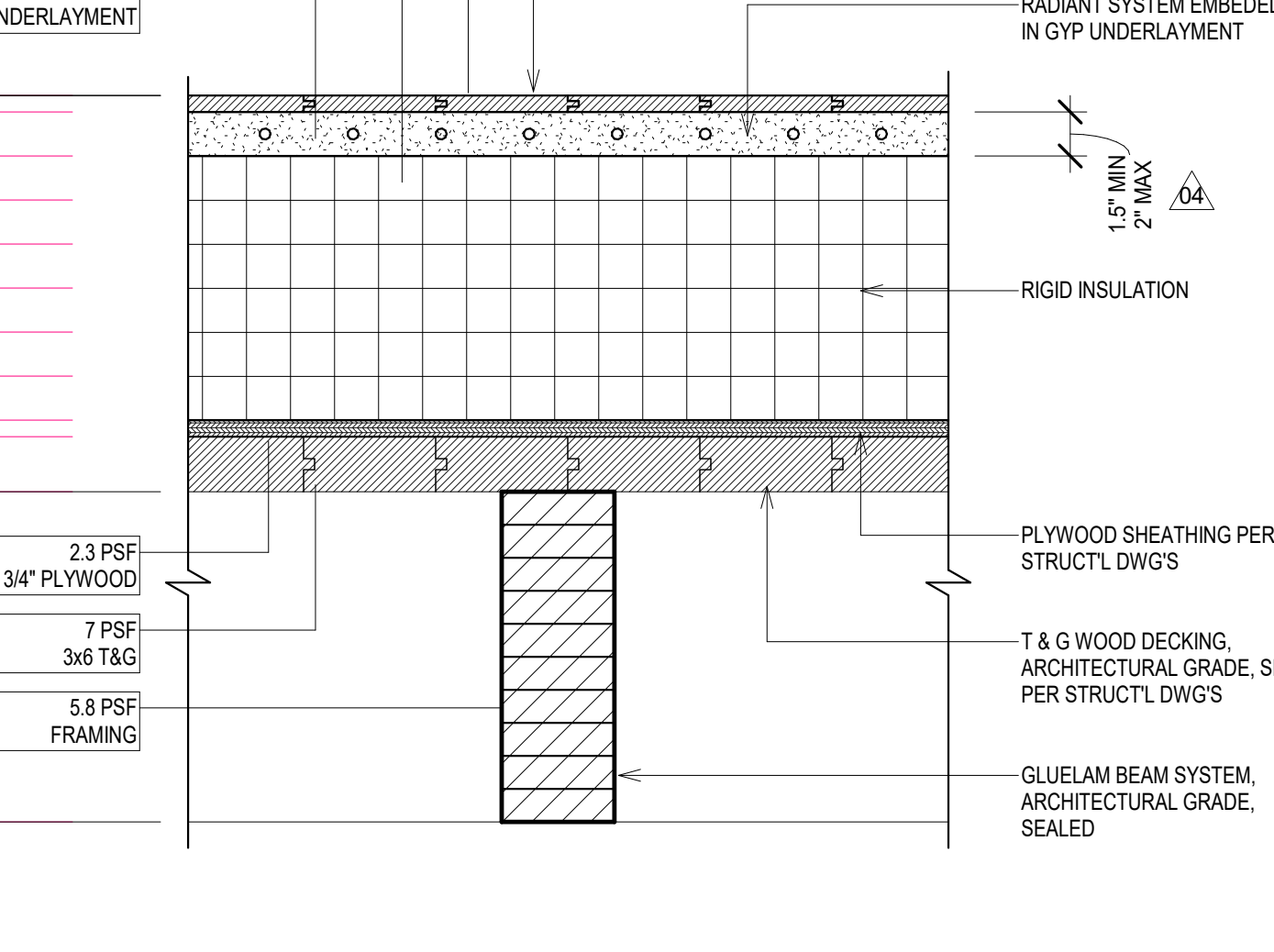
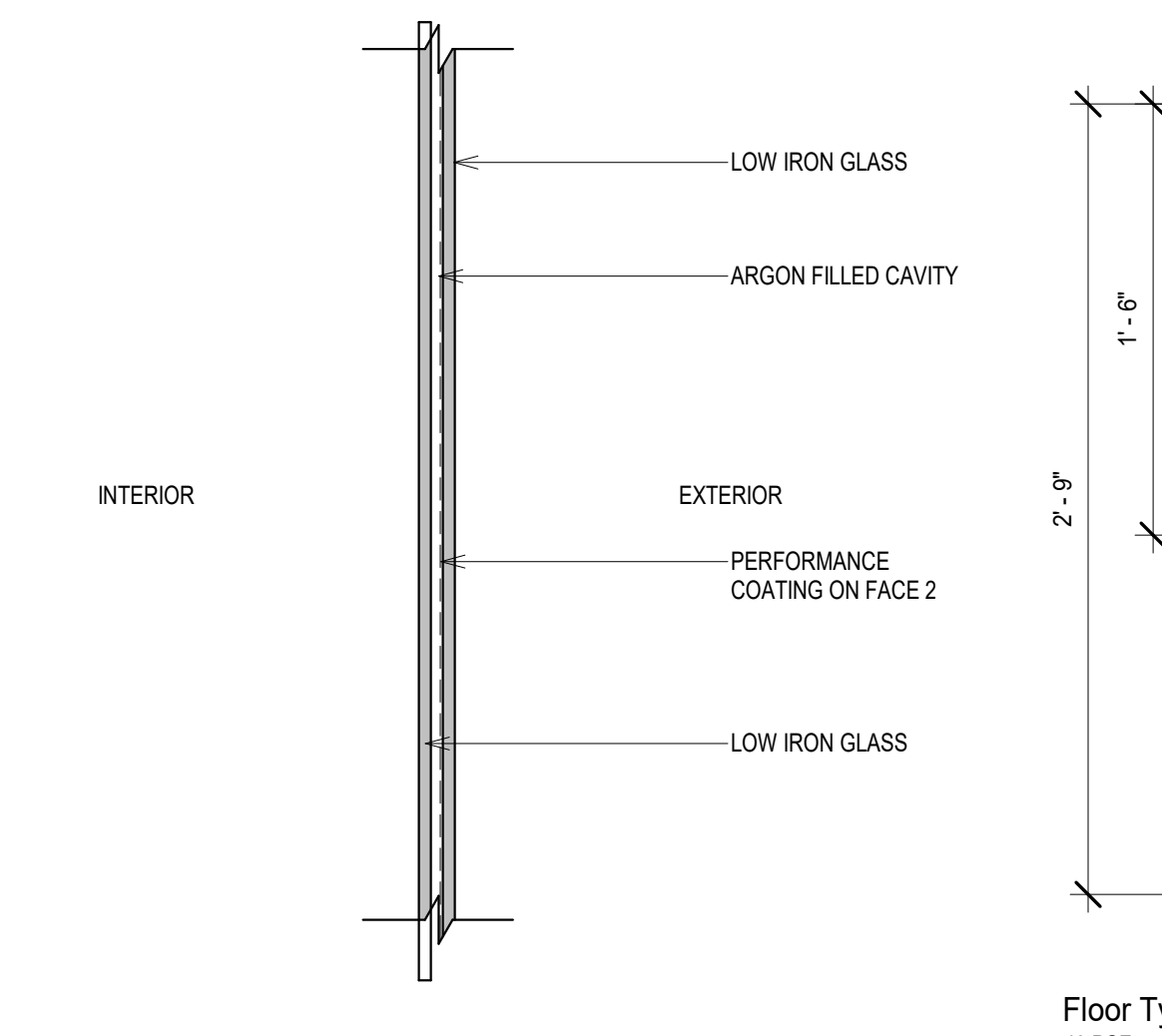
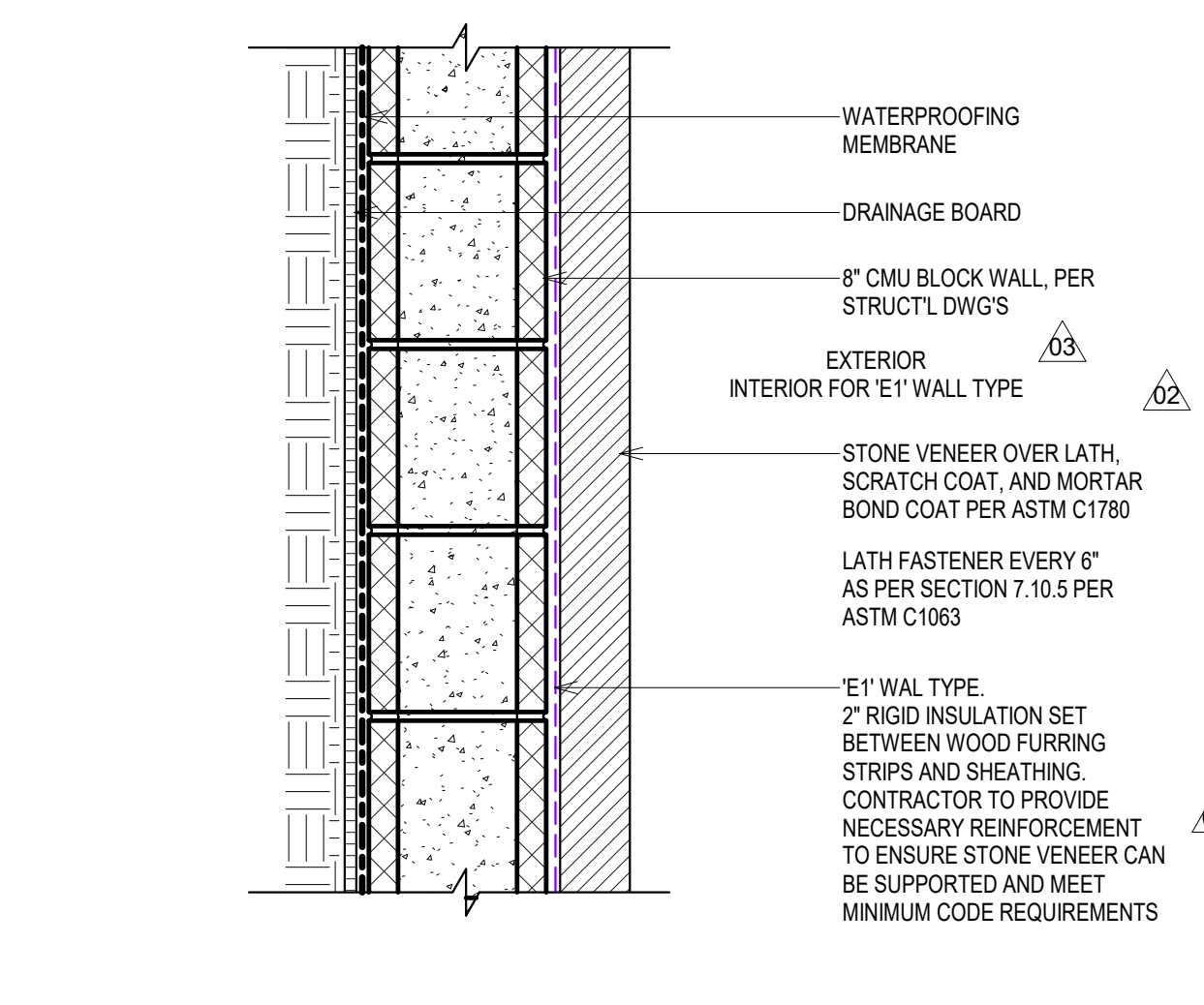
TITLE
Roof, Floor & Wall Assemblies

PROJECT
DZK-2018-01

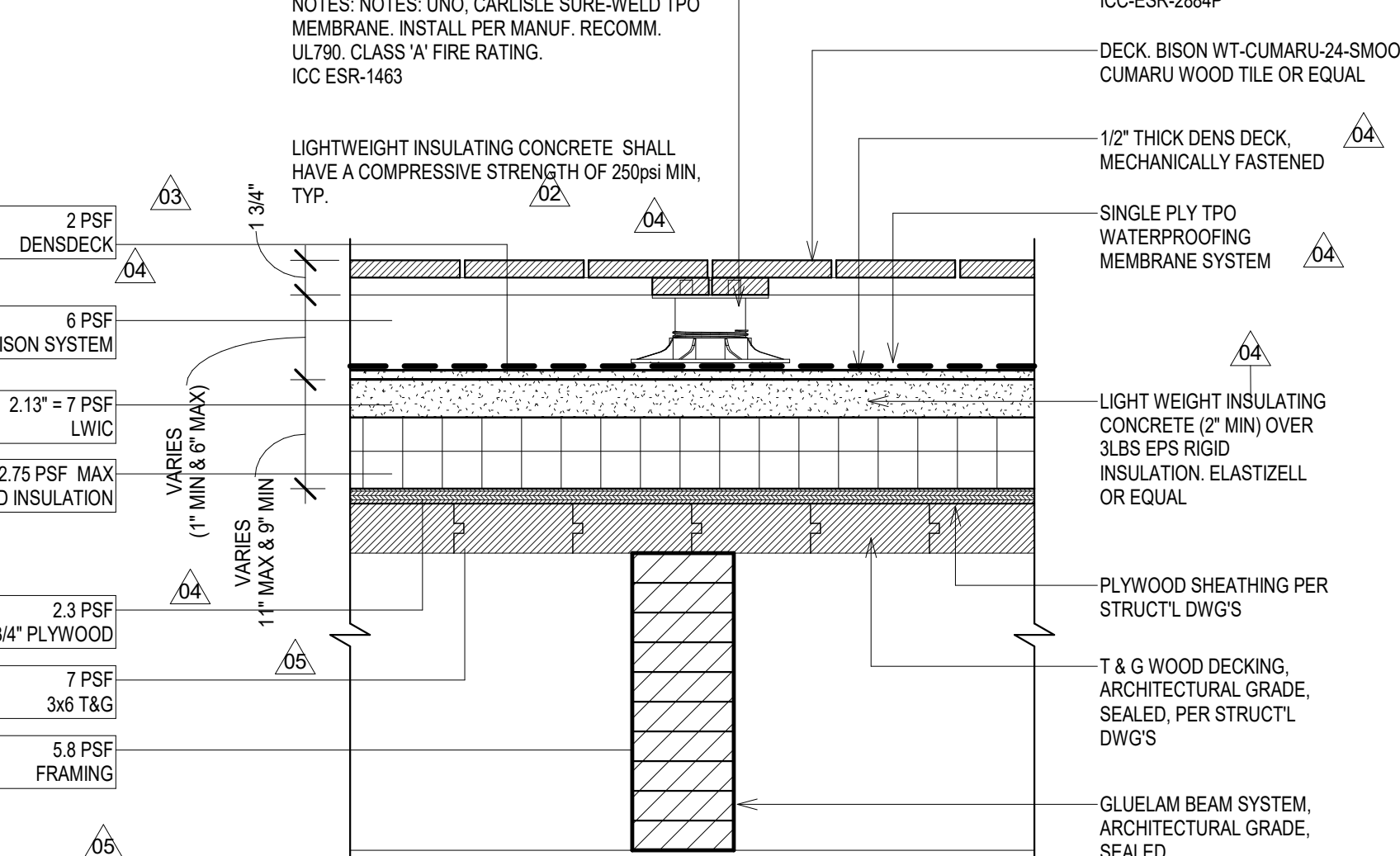
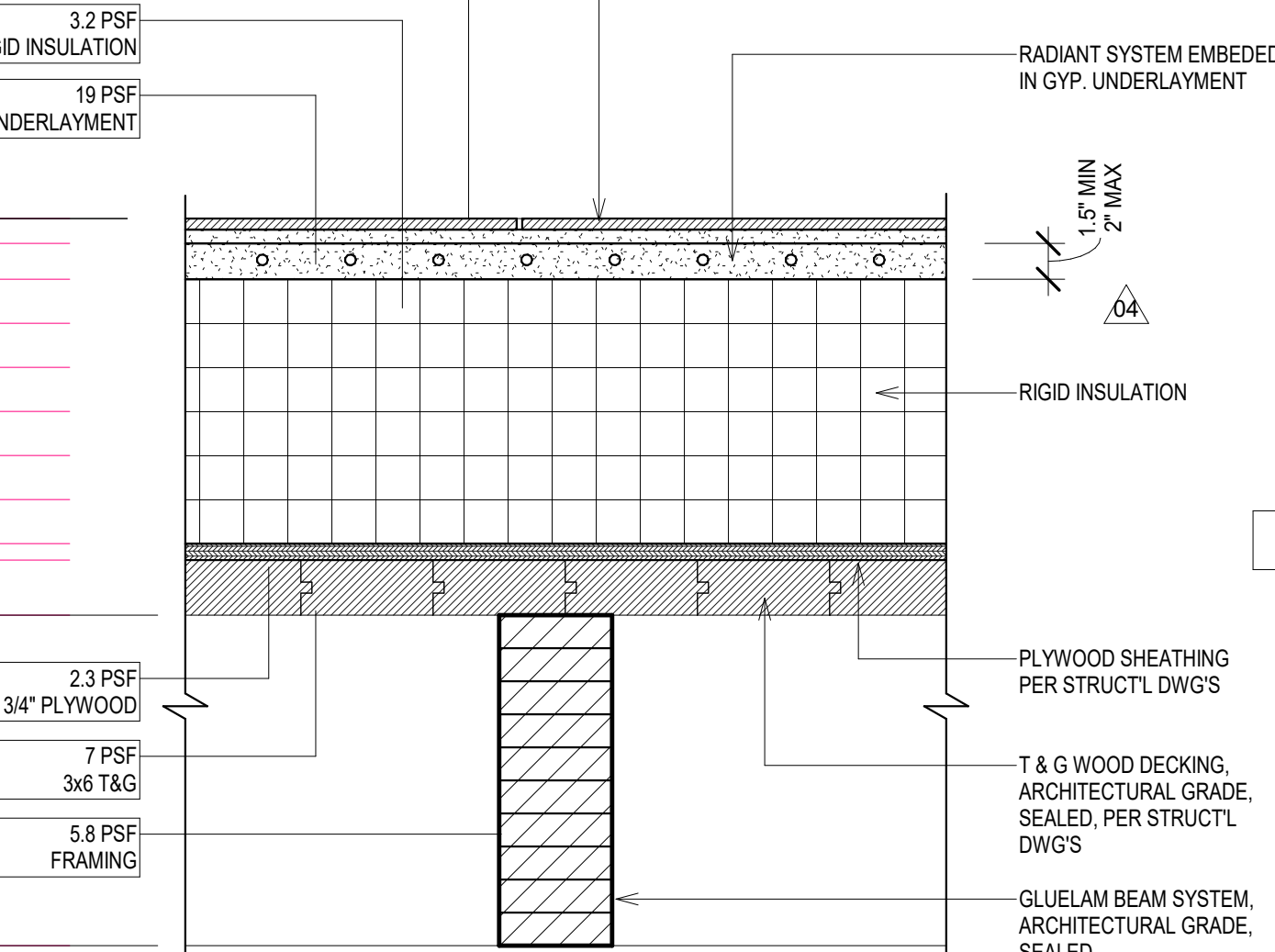
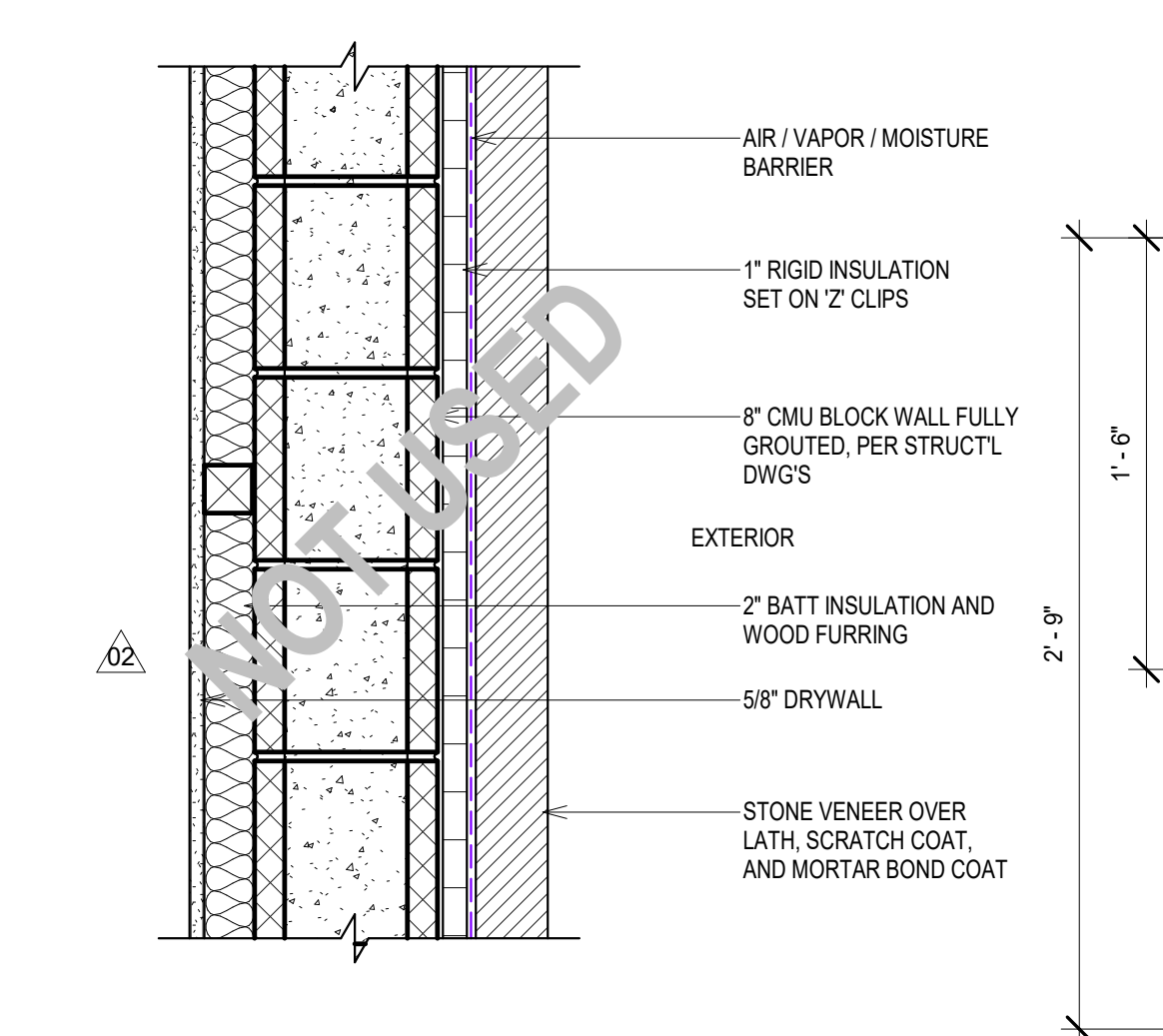
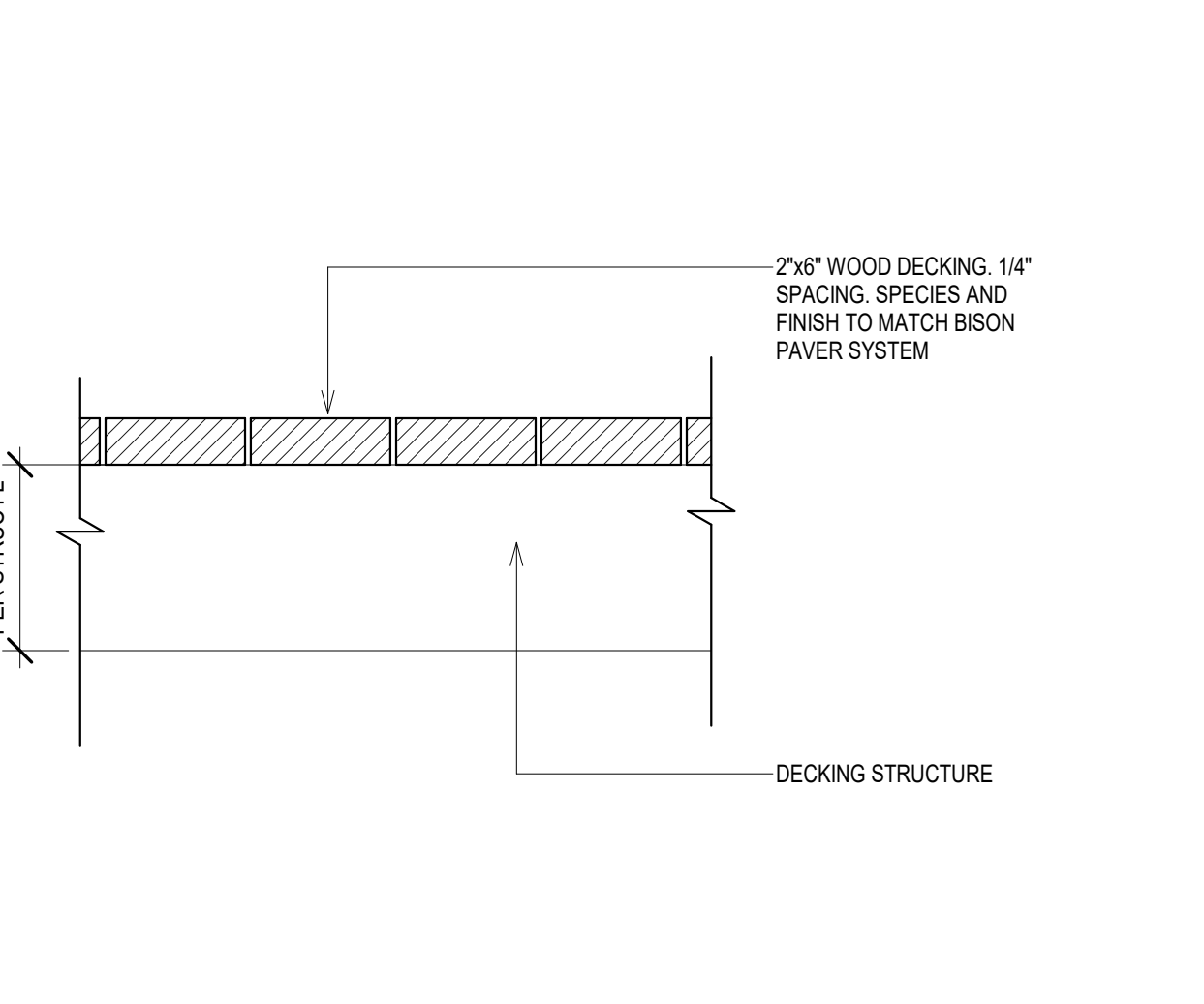
DATE
11/27/2019

NUMBER
A-560-R

SCALE
As Indicated



NOTES: MEETS UL790 CLASS 'A' FIRE RATING
 2"x14" RIPPED FRAMING RUNNING PERPENDICULAR TO GLULAM BEAMS PER STRUCT'L DWGS
 2" THICK POURED IN PLACE CONCRETE SLAB PER STRUCT'L DWGS
 3/4" PLYWOOD PER STRUCT'L DWGS
 FILL VOID WITH RIGID INSULATION AS REQUIRED
 TREMCO VULKEM EWS W/ PUMA TECHNOLOGY OR APPROVED EQUAL
 SINGLE PLY TPO WATERPROOFING MEMBRANE SYSTEM
 LIGHT WEIGHT INSULATING CONCRETE (2" MIN) OVER 3LBS EPS RIGID INSULATION ELASTAZELL OR EQUAL
 PLYWOOD SHEATHING PER STRUCT'L DWGS
 T & G WOOD DECKING, ARCHITECTURAL GRADE, SEALED, PER STRUCT'L DWGS
 GLULAM BEAM SYSTEM, ARCHITECTURAL GRADE, SEALED

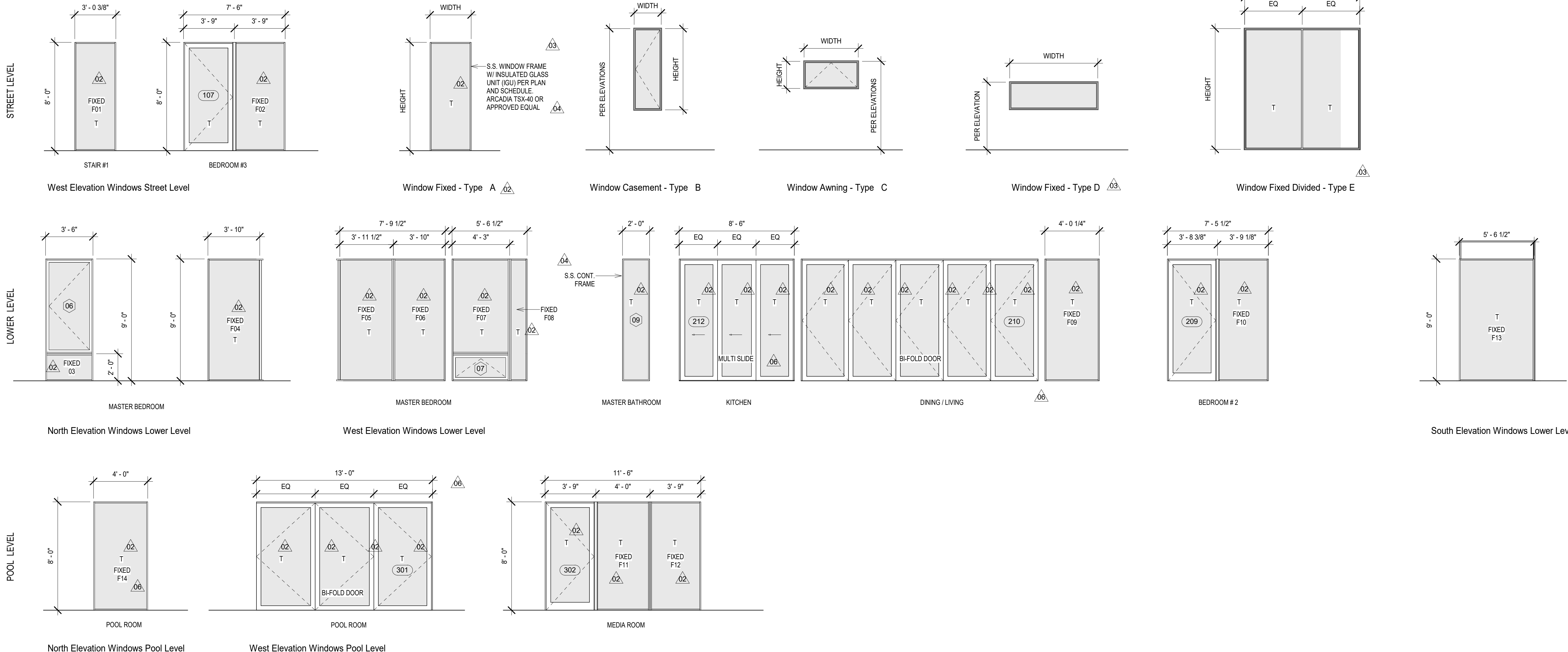


NOTES: UNO, CARLISLE SURE-WELD TPO MEMBRANE, INSTALL PER MANUF. RECOMM UL790 CLASS 'A' FIRE RATING. ICC ESR-1463
 LIGHTWEIGHT INSULATING CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 250psi MIN. TYP.
 12" THICK DENS DECK, MECHANICALLY FASTENED
 SINGLE PLY TPO WATERPROOFING MEMBRANE SYSTEM
 LIGHT WEIGHT INSULATING CONCRETE (2" MIN) OVER 3LBS EPS RIGID INSULATION ELASTAZELL OR EQUAL
 PLYWOOD SHEATHING PER STRUCT'L DWGS
 T & G WOOD DECKING, ARCHITECTURAL GRADE, SEALED, PER STRUCT'L DWGS
 GLULAM BEAM SYSTEM, ARCHITECTURAL GRADE, SEALED

WINDOW SCHEDULE													
Level	Mark	Type	Width	Height	Operation	Window Material	Window Finish	Frame Material	Frame Finish	SHGC	U Factor	VT	Comments
Street Level	01	C	4'-0"	2'-0"	AWNING	GLS	CLR	AL	SEALED	0.31	0.34	0.53	T
Street Level	02	C	2'-0"	2'-0"	AWNING	GLS	CLR	AL	SEALED	0.31	0.34	0.53	T
Lower Level	03	B	2'-0"	6'-0"	CASEMENT	GLS	CLR	AL	SEALED	0.31	0.34	0.53	T
Lower Level	04	E	8'-6"	8'-11"	FIXED	GLS	CLR	AL	SEALED	0.31	0.34	0.53	T
Lower Level	05	D	6'-0"	2'-0"	FIXED	GLS	CLR	AL	SEALED	0.31	0.34	0.53	T
Lower Level	06	B	9'-4"	6'-9 5/8"	CASEMENT	GLS	CLR	AL	SEALED	0.31	0.34	0.53	T
Lower Level	07	C	4'-0 5/8"	1'-9 5/8"	AWNING	GLS	CLR	AL	SEALED	0.31	0.34	0.53	1)
Lower Level	08	T	2'-0"	2'-0"	AWNING	GLS	CLR	AL	SEALED	0.31	0.34	0.53	1)
Lower Level	09	A	2'-0"	9'-0"	FIXED	GLS	CLR	SS	N/A	0.31	0.34	0.53	T

1) WINDOW OPENINGS WILL NOT ALLOW PASSAGE OF 4" DIAMETER SPHERE WHEN IN LARGEST OPEN POSITION (CRC R312.2)
T = TEMPERED GLASS

WINDOW NOTES
U.N.O. ALL WINDOWS HAVE THE FOLLOWING PERFORMANCE SPECS
*U FACTOR = 0.34
SHGC = 0.31
VT = 0.53



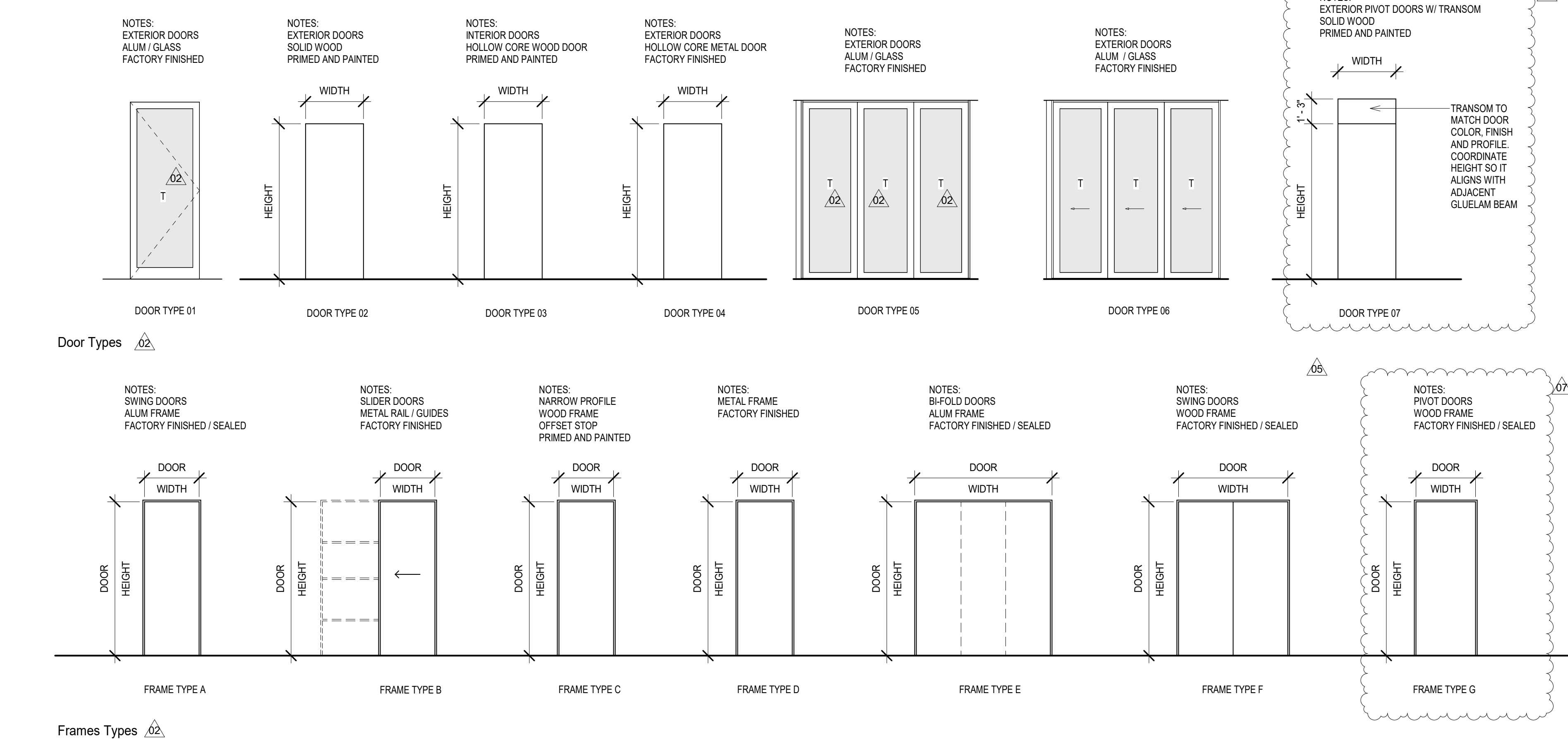
DOOR SCHEDULE												
Mark	Level	Door Width	Height	Door Type	Door Finish	Door Material	Frame Type	Frame Material	Door Operation	Comments		
Street Level	Street Level	5'-0"	7'-10"	02	PT	WD	F	WD	SWING	Pair		
Street Level	Street Level	3'-0"	7'-10 1/2"	02	PT	WD	C	WD	SWING	Envelope Door, 20 MIN. DC, L, S		
Street Level	Street Level	2'-8"	7'-10 1/2"	02	PT	WD	C	WD	SWING	20 MIN. DC, L, S		
Street Level	Street Level	2'-10"	7'-0"	03	PT	WD	C	WD	SLIDER			
Street Level	Street Level	2'-8"	7'-10 1/2"	03	PT	WD	B	WD	SLIDER			
Street Level	Street Level	3'-0"	7'-11"	01	CLR	GLS	A	AL	SWING	Envelope Door: 1)		
Lower Level	Lower Level	5'-4"	9'-0"	07	CLR	WD	G	WD	PIVOT	Envelope Door: 1)		
Lower Level	Lower Level	3'-0"	8'-10 1/2"	03	PT	WD	C	WD	SWING			
Lower Level	Lower Level	2'-8"	8'-10 1/2"	03	PT	WD	C	WD	SLIDER			
Lower Level	Lower Level	2'-8"	8'-10 1/2"	03	PT	WD	C	WD	SLIDER			
Lower Level	Lower Level	2'-8"	8'-10 1/2"	03	PT	WD	B	WD	SLIDER			
Lower Level	Lower Level	2'-6"	8'-10 1/2"	03	PT	WD	C	WD	SLIDER			
Lower Level	Lower Level	3'-0"	8'-10 1/2"	03	PT	WD	C	WD	SWING			
Lower Level	Lower Level	2'-8"	8'-10 1/2"	03	PT	WD	B	WD	SLIDER			
Lower Level	Lower Level	3'-6"	8'-11"	01	CLR	GLS	A	AL	SWING	Envelope Door: 1)		
Lower Level	Lower Level	12'-0"	8'-11"	05	CLR	GLS	F	AL	BI-FOLD	Envelope Door: 1)		
Lower Level	Lower Level	8'-8"	8'-11"	06	CLR	GLS	E	AL	MULTI SLIDE	Envelope Door: 1)		
Pool Terrace Level	Pool Terrace Level	13'-4"	7'-11"	06	CLR	GLS	A	AL	MULTI SLIDE	Envelope Door: 1)		
Pool Terrace Level	Pool Terrace Level	4'-0"	7'-11"	01	CLR	GLS	E	AL	SWING	Envelope Door: 1)		
Pool Terrace Level	Pool Terrace Level	2'-8"	7'-10 1/2"	03	PT	WD	B	WD	SLIDER			
Pool Terrace Level	Pool Terrace Level	3'-0"	7'-4 1/2"	03	PT	WD	WD	WD	SWING			

T = TEMPERED GLASS
20 MN = FIRE RATING
DC = DOOR CLOSER
L=LATCH
S=1 3/8" THICK SOLID WOOD

1) IGU PERFORMANCE:
*U FACTOR = 0.54
SHGC = 0.34
VT = 0.42

2) IGU PERFORMANCE:
*U FACTOR = 0.34
SHGC = 0.31
VT = 0.42

ROOM SCHEDULE										
ROOM	NAME	AREA	FLOOR	FINISHES					CEILING	COMMENTS
				BASE	NORTH	SOUTH	EAST	WEST		
Street Level	BATHROOM #3	41 SF	TILE	TILE	TILE	TILE	TILE	TILE	PT	
Street Level	LAUNDRY	37 SF	TILE	TILE	PT	PT	PT	PT	PT	
Street Level	HALL	54 SF	WD	WD	PT	PT	PT	PT	EXP	
Street Level	BEDROOM #3	133 SF	WD	WD	PT	PT	PT	PT	PT	
Street Level	EQ. ROOM	15 SF	TILE	TILE	PT	PT	PT	PT	PT	
Street Level	SERVICE CLOSET	11 SF	CONC	RBR	PT	PT	PT	PT	PT	
Lower Level	MASTER BEDROOM	175 SF	WD	WD	PT	PT	OPEN	GLS	EXP	
Lower Level	READING ROOM	84 SF	WD	WD	PT	PT	PT	PT	EXP	
Lower Level	CLOSET	27 SF	WD	WD	PT	PT	PT	PT	PT	
Lower Level	POWDER ROOM	19 SF	TILE	TILE	PT	PT	PT	TILE	PT	
Lower Level	MASTER BATHROOM	91 SF	TILE	TILE	TILE	TILE	TILE	TILE	PT	
Lower Level	KITCHEN	188 SF	WD	WD	OPEN	OPEN	OPEN	GLS	EXP	
Lower Level	DINING	Rectangular Room	WD	WD	OPEN	OPEN	OPEN	GLS	EXP	
Lower Level	LIVING	182 SF	WD	WD	OPEN	BRK	OPEN	GLS	EXP	
Lower Level	BATHROOM #2	41 SF	TILE	TILE	PT	PT	PT/TILE	PT	PT	
Lower Level	BEDROOM #2	158 SF	WD	WD	PT	PT	PT	GLS	EXP	
Lower Level	HALLWAY	187 SF	WD	WD	OPEN	OPEN	OPEN	PT	EXP	
Lower Level	STAR #1	193 SF	WD	WD	BRK	PT	OPEN	OPEN	EXP	
Lower Level	CL #2	18 SF	WD	WD	PT	PT	PT	PT	PT	
Lower Level	VESTIBULE	88 SF	WD	WD	PT	GLS	ST	PT / OPEN	PT	
Pool Terrace Level	REC ROOM	213 SF	WD	WD	PT	PT	PT	GLS	EXP	
Pool Terrace Level	BATHROOM #4	29 SF	TILE	TILE	PT/TILE	PT/TILE	PT	OPEN	PT	
Pool Terrace Level	MEDIA ROOM	316 SF	WD	WD	PT	PT	PT	GLS	EXP	
Pool Terrace Level	VESTIBULE	49 SF	WD	WD	PT	PT	PT	OPEN	PT	
Pool Terrace Level	SERVICE	47 SF	TILE	TILE	PT	PT	PT	PT	PT	



FINISH LEGEND

CONC = CONCRETE, POLISHED, SEALED, MATTE FINISH
EXP = EXPOSED STRUCTURE
GLS = GLASS WALL
PT = PAINTED, FLAT FINISH, COLOR TBD
RBR = RUBBER BASE, COLOR TBD
ST = STONE VENEER
TILE = PORCELAIN TILE, TYPE / FINISH TBD
WD = WOOD FLOORING, DOUGLAS FIR, TIGHT GRAIN, SEALED, MATTE FINISH

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NO	DATE	REASON FOR ISSUE	CHK
07	04/19/24	Bulletin_02	LB
06	08/21/23	Bulletin_01	LB
05	06/01/22	City Plan Check #04	LB
04	03/30/22	City Plan Check #03	LB
03	03/10/21	City Plan Check #02	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

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ARCHITECT

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CLIENT
Patricia Dziuk

KEY PLAN

STAMP

PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

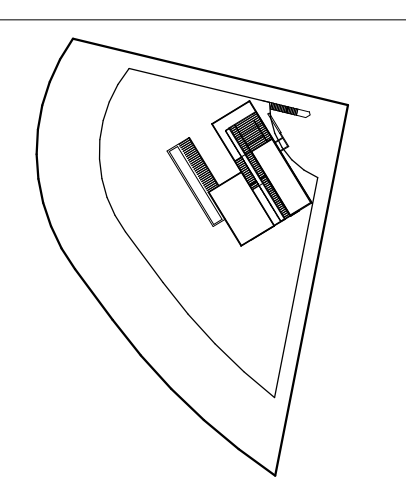
TITLE
Schedules

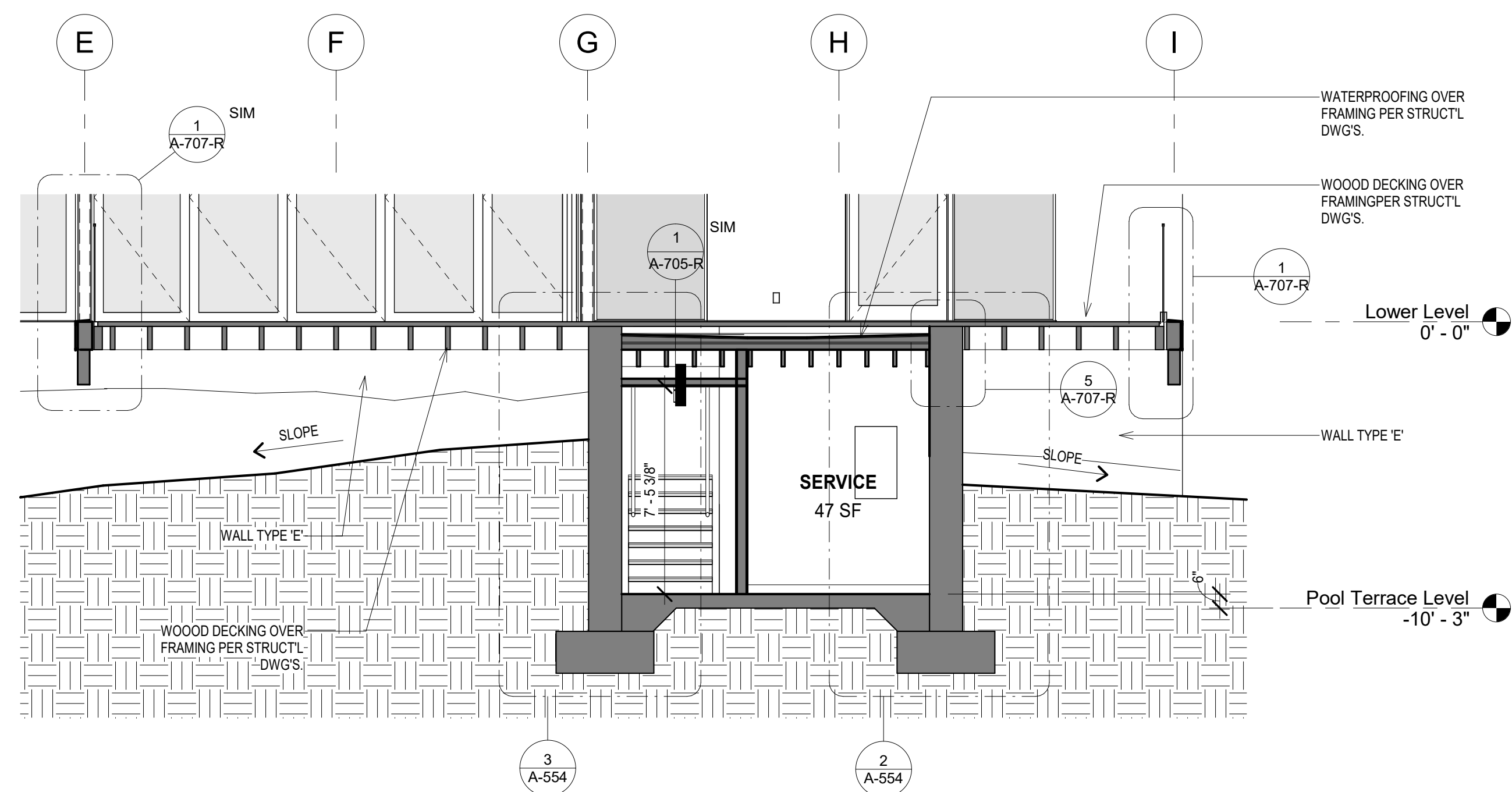
PROJECT
DZK-2018-01

DATE
11/27/2019

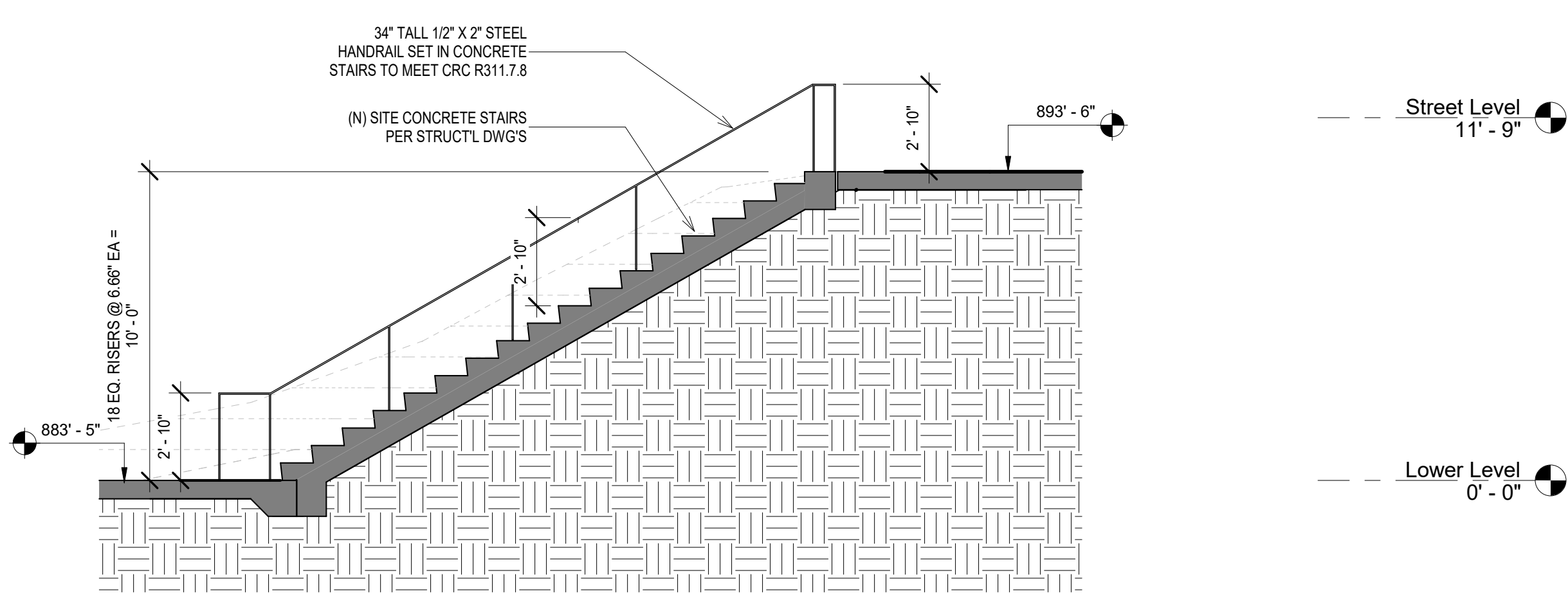
NUMBER
A-600-R

SCALE
1/4" = 1'-0"

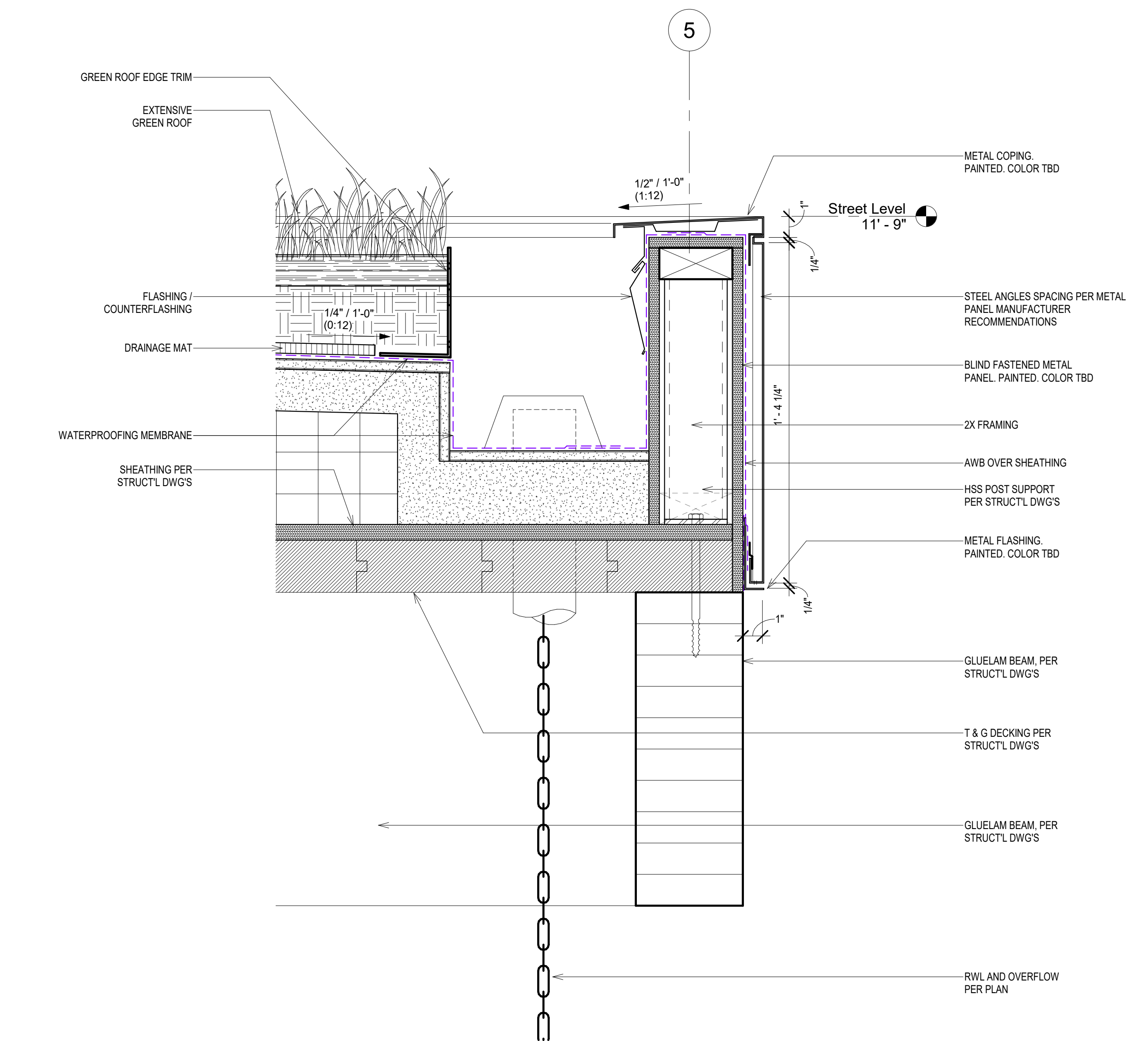




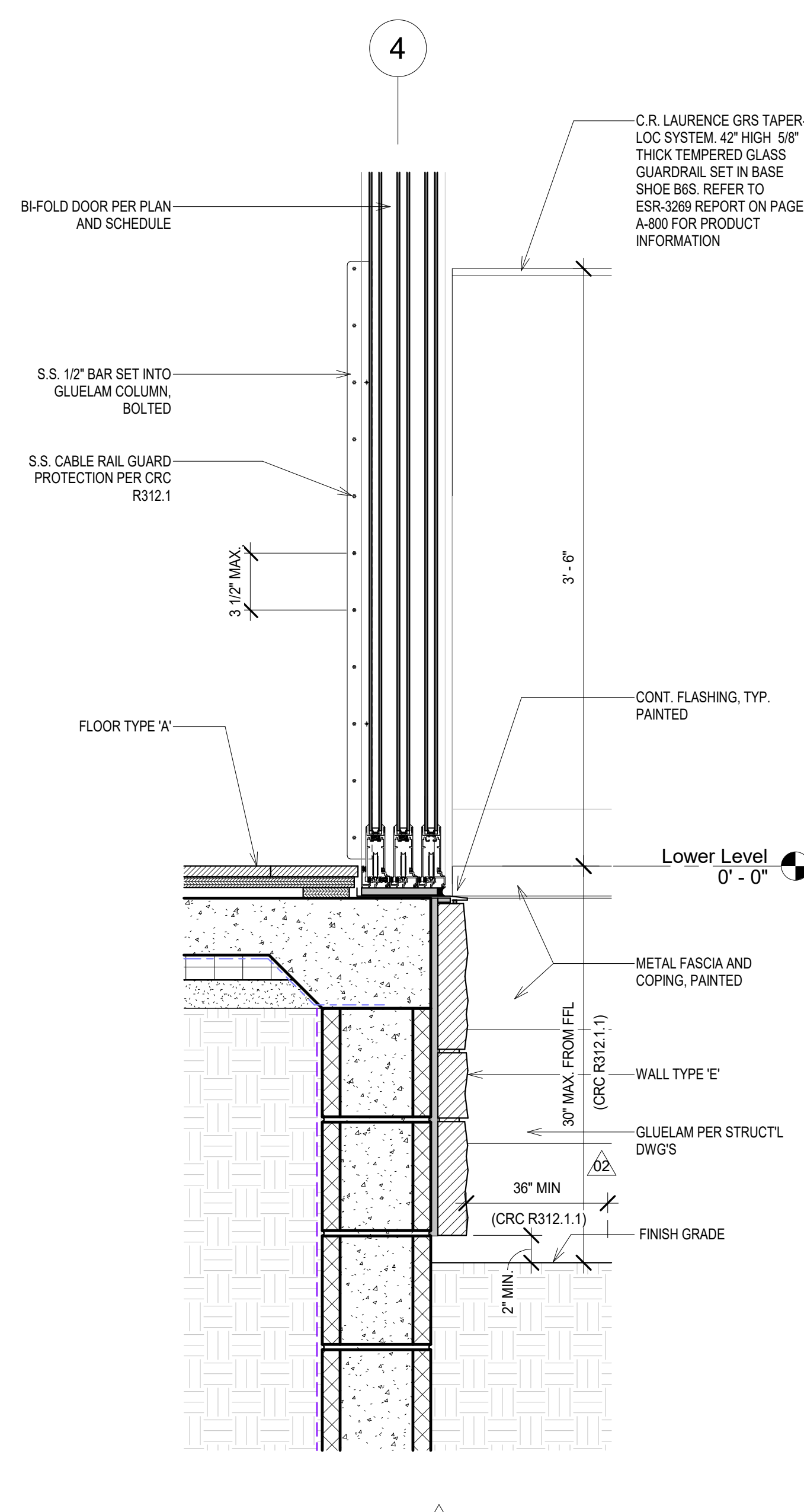
7 Section Through Service Room
1/4" = 1'-0"



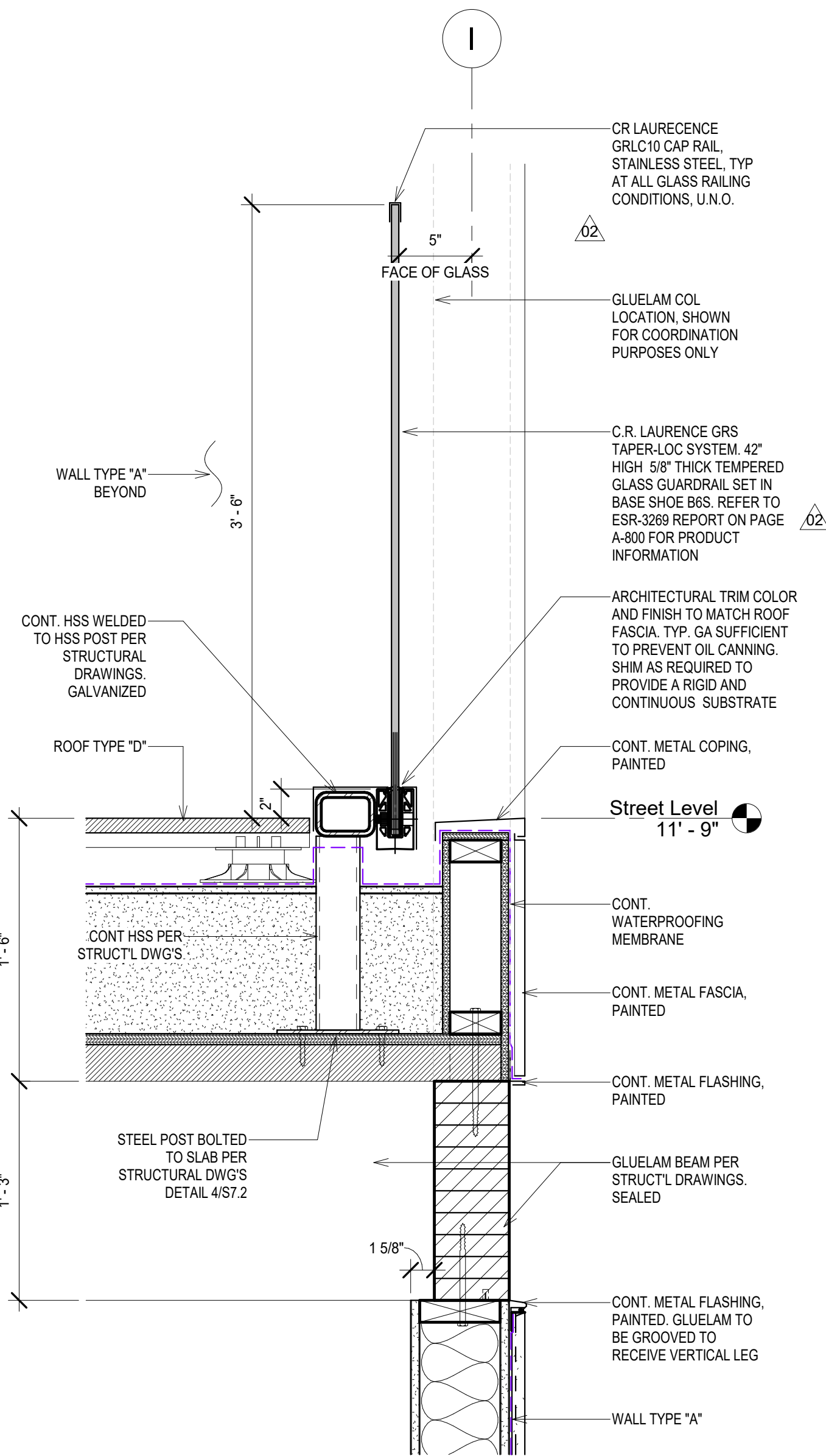
8 Detail Section Through Site Entrance Stair
1/4" = 1'-0"



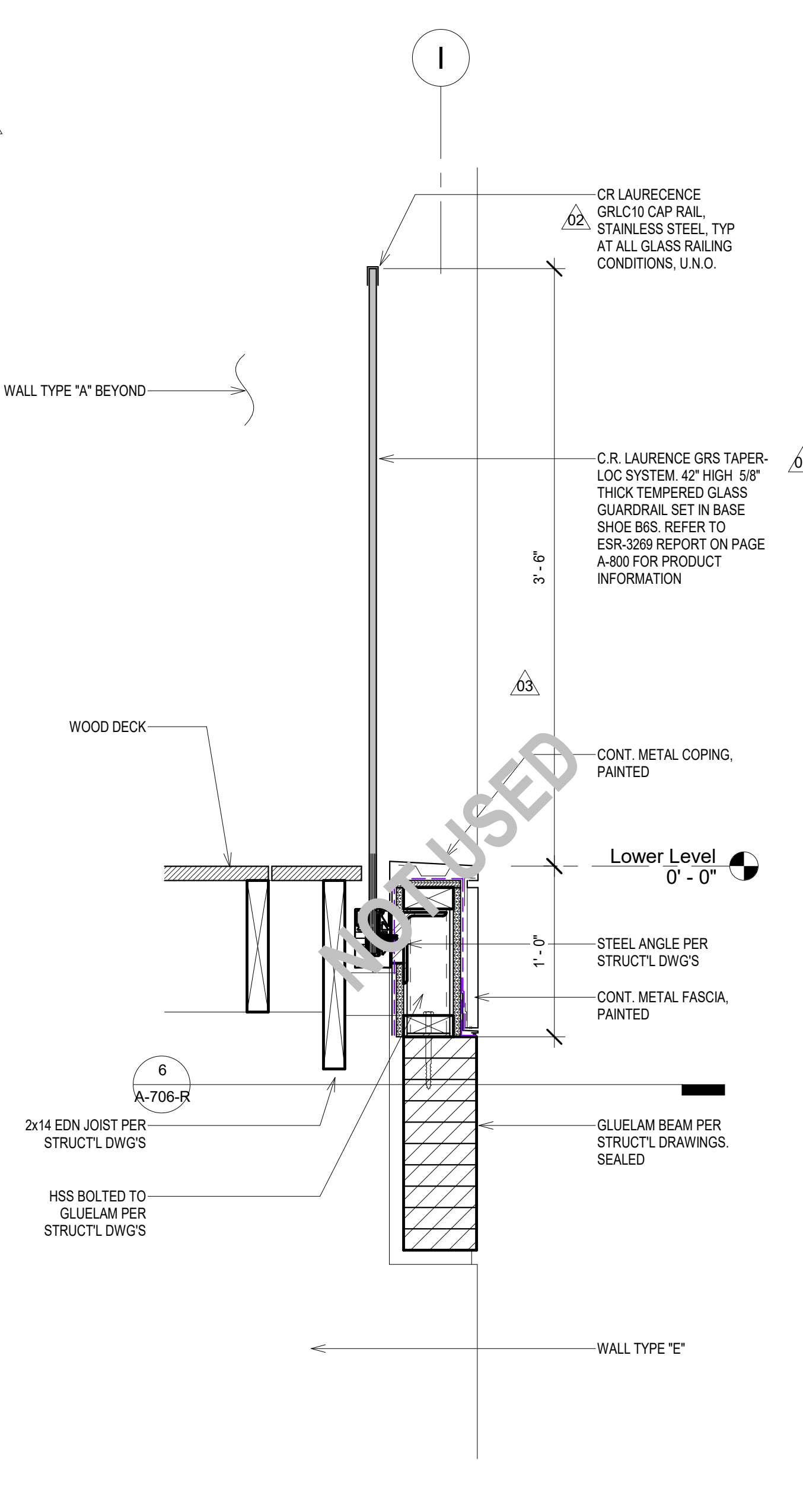
9 Detail Section Green Roof Parapet
3" = 1'-0"



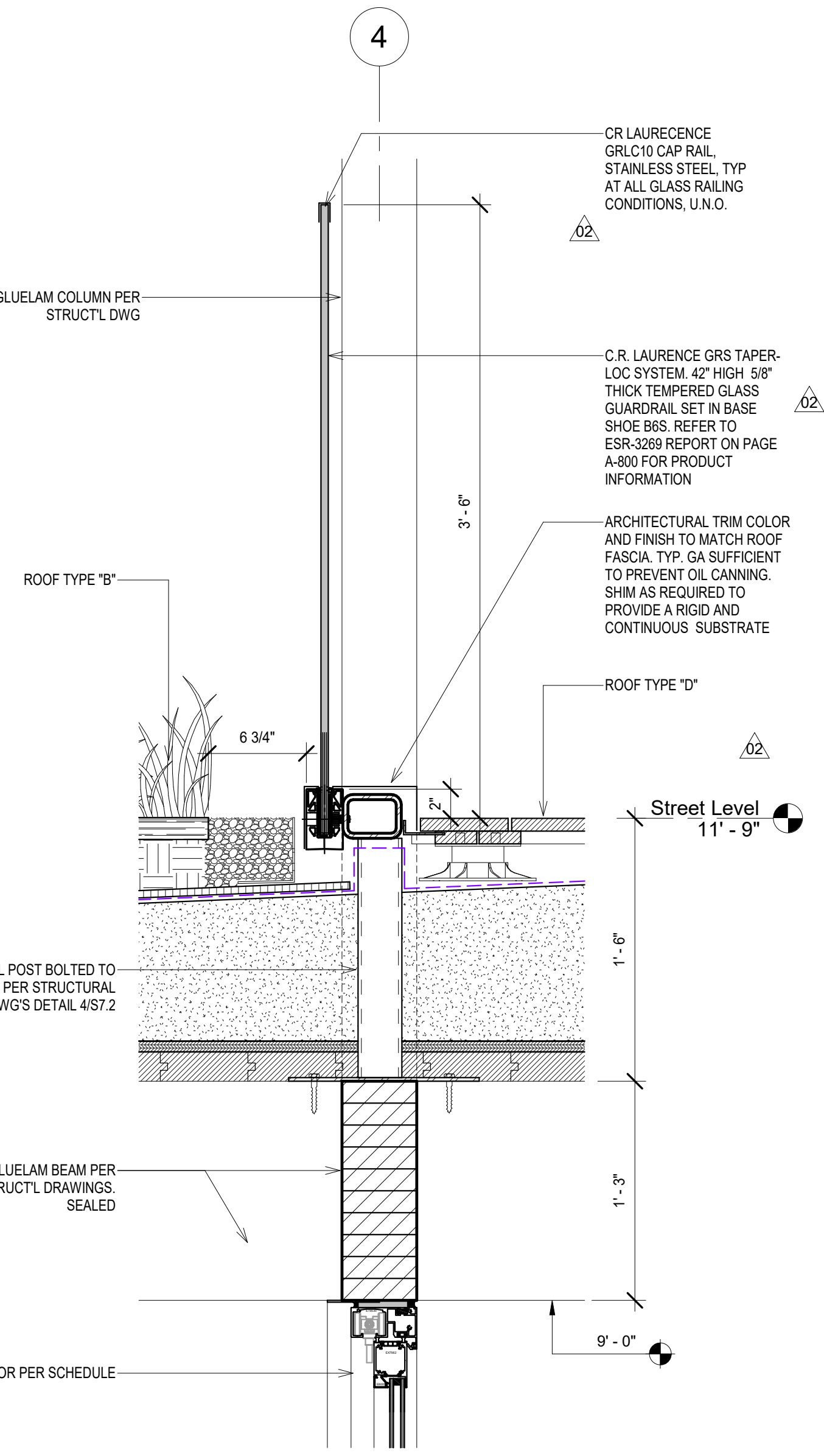
5 Detail Section @ Kitchen Cable Rail
1 1/2" = 1'-0"



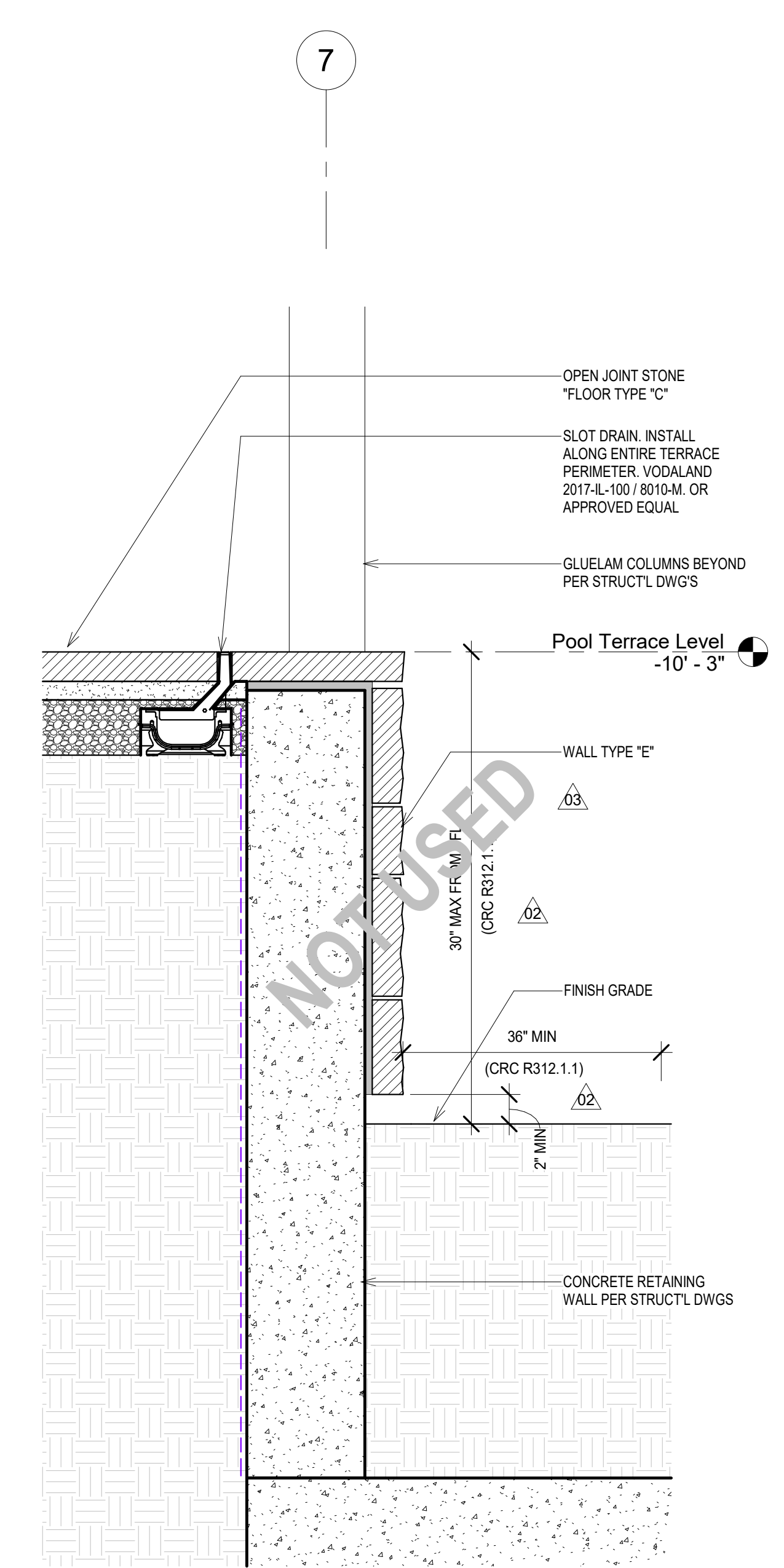
6 Detail Section Street Level Terrace Guardrail @ South Perimeter
1 1/2" = 1'-0"



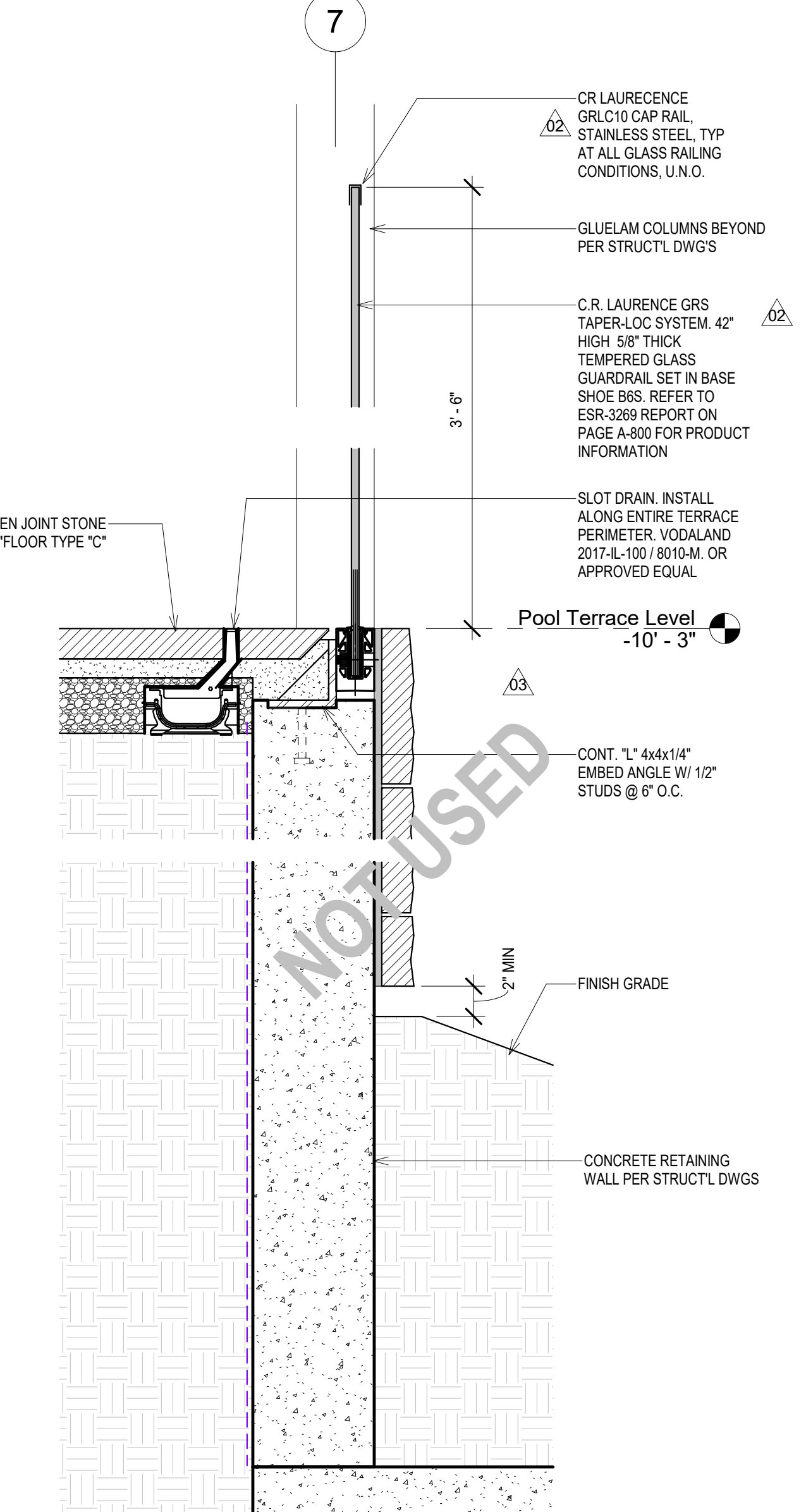
3 Detail Section Lower Level Terrace Guardrail
1 1/2" = 1'-0"



4 Detail Section Street Level Terrace Guardrail at Wood Deck
1 1/2" = 1'-0"



1 Detail Section Pool Level Terrace Edge
1 1/2" = 1'-0"



2 Detail Section Pool Level Guardrail
1 1/2" = 1'-0"

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NO	DATE	REASON FOR ISSUE	CHK
03	08/21/23	Bulletin_01	LB
02	03/30/22	City Plan Check #03	LB
01	08/21/20	City Plan Check #01	LB

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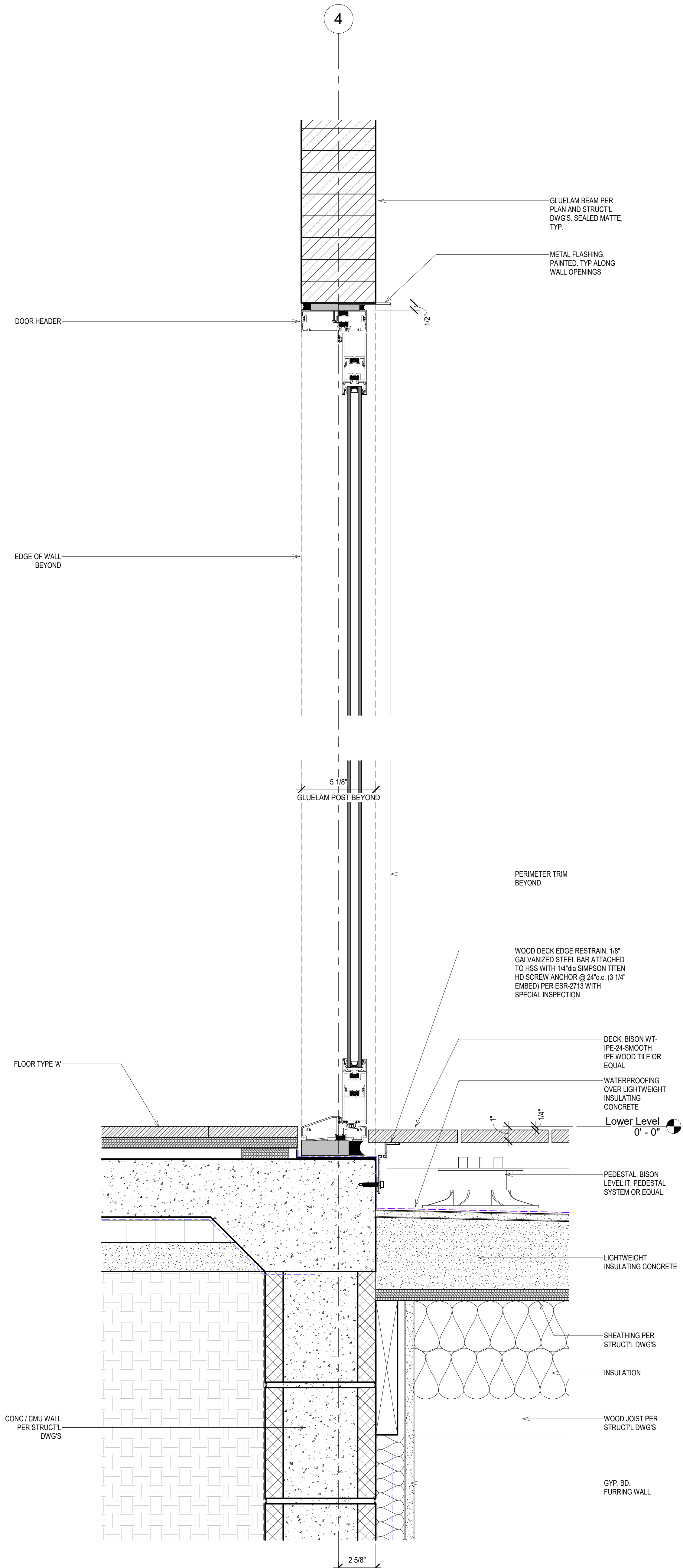


PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

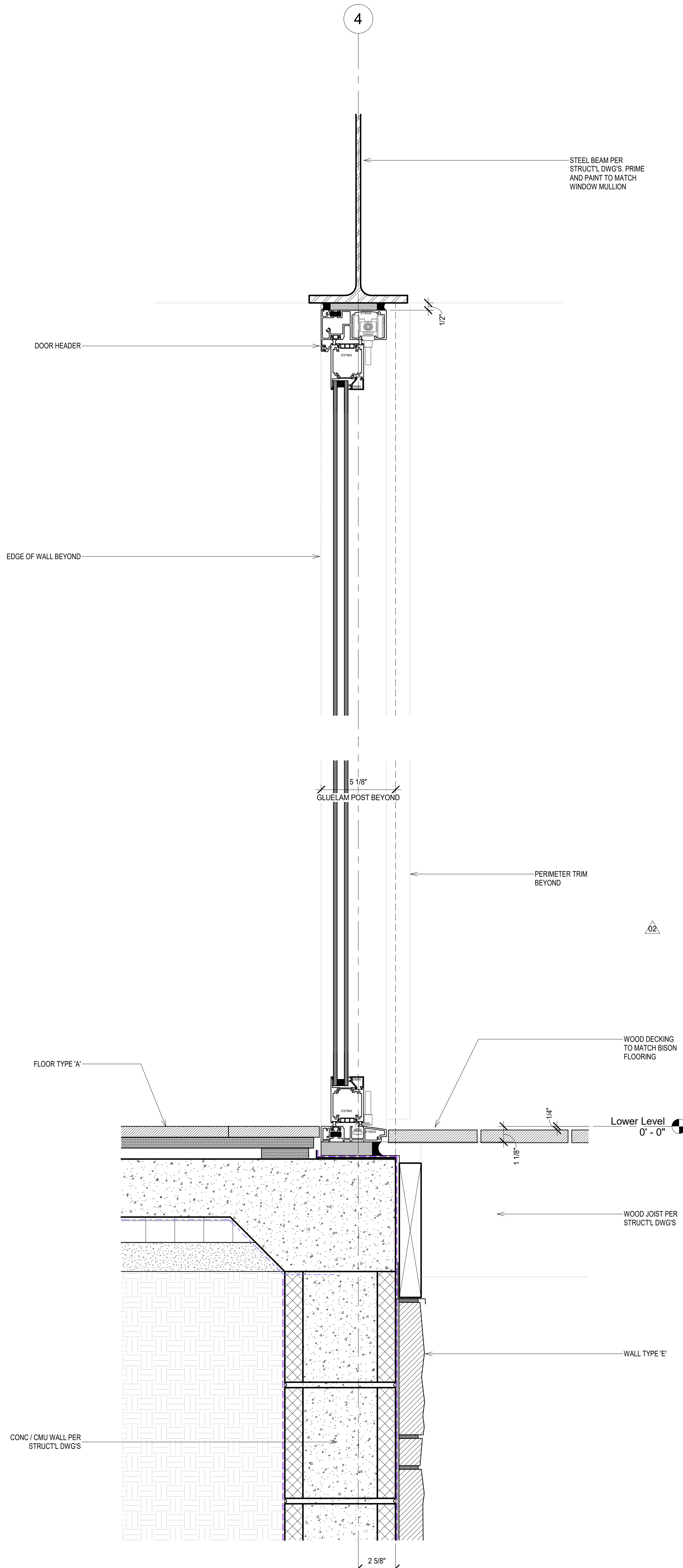
TITLE
Details

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-700-R	As indicated

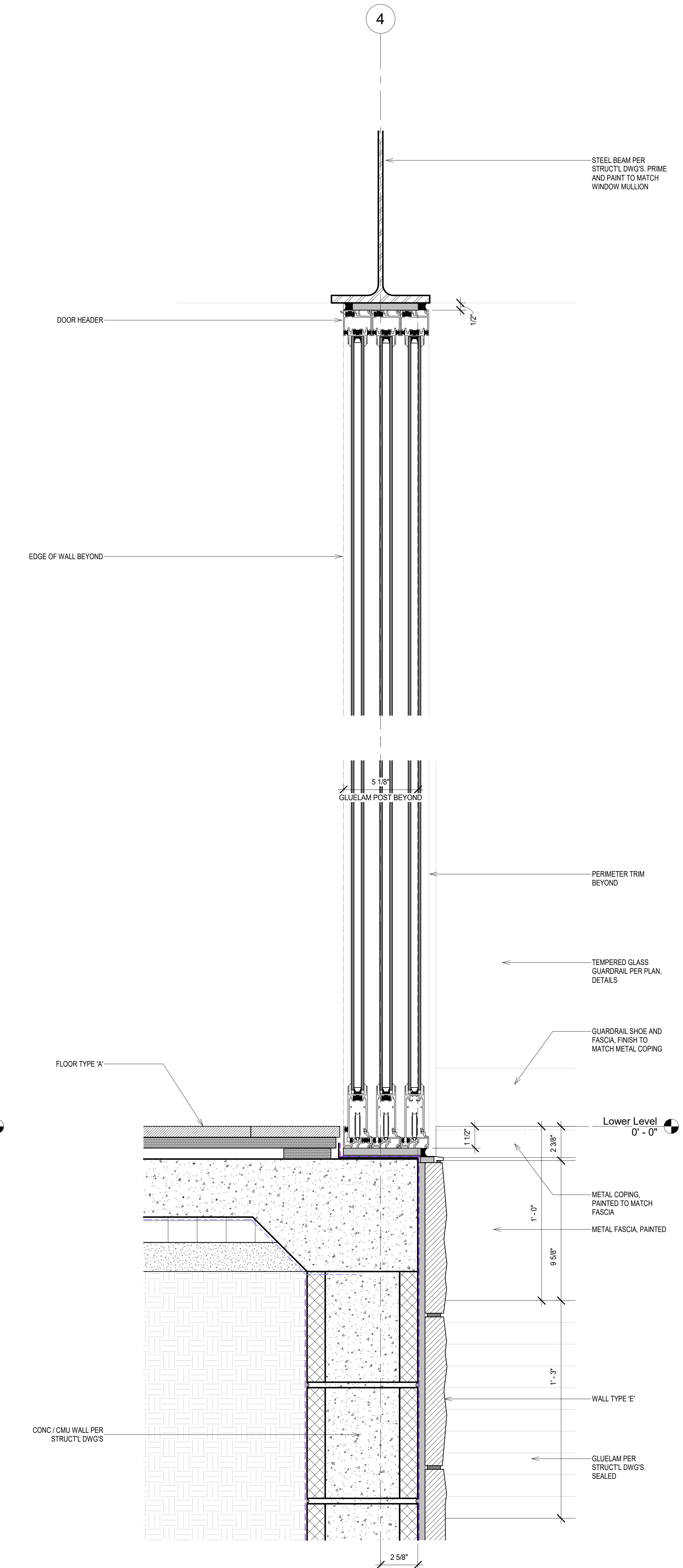
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3 Detail Section WW_600-Door Outswing
3" = 1'-0"



2 Detail Section WW_9550-Bi-Fold
3" = 1'-0"



1 Detail Section WW_600 MultiSlide
3" = 1'-0"

NO	DATE	REASON FOR ISSUE	CHK
03	08/21/23	Bulletin_01	LB
02	03/30/22	City Plan Check #03	LB
01	08/21/20	City Plan Check #01	LB

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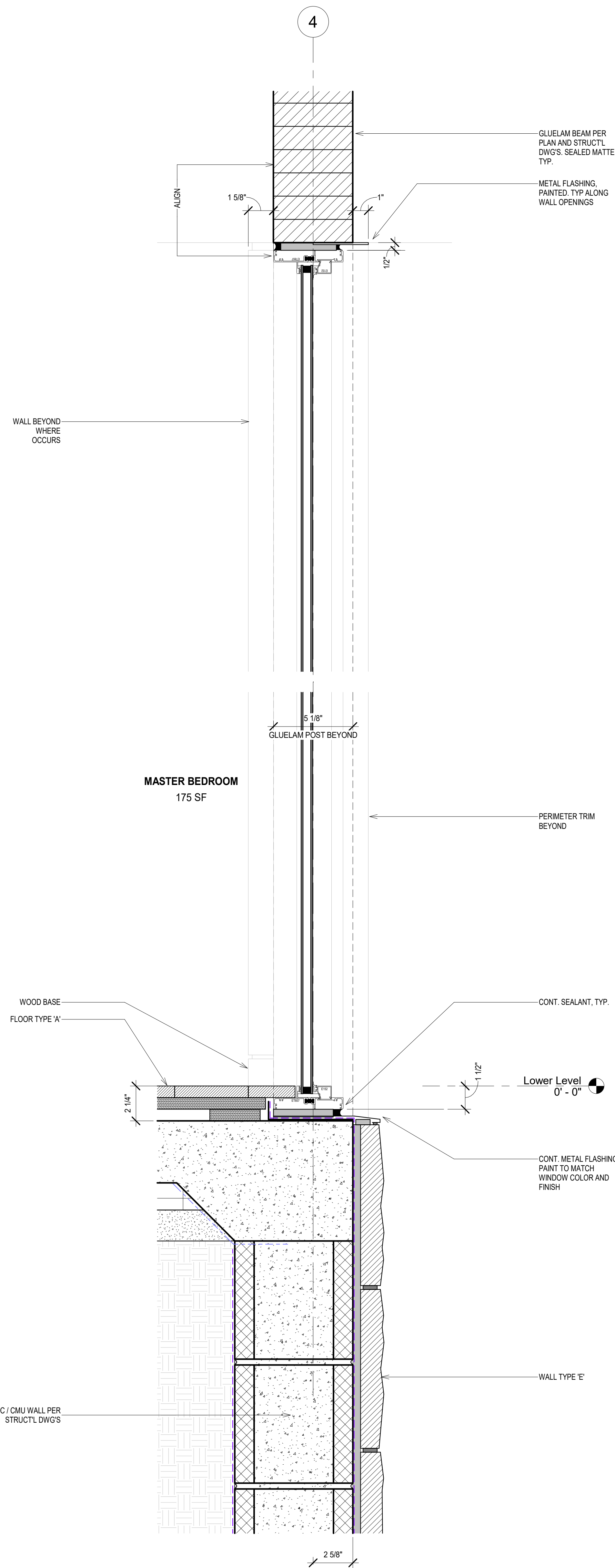
STAMP



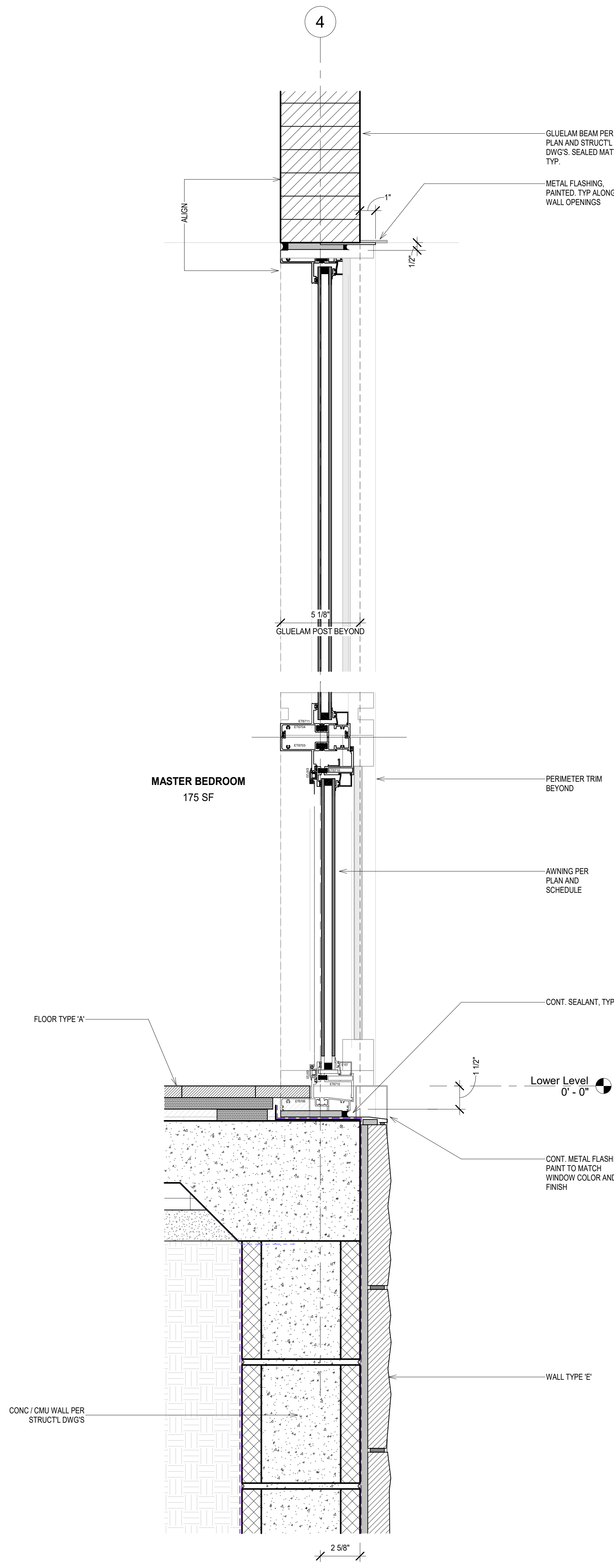
PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Details

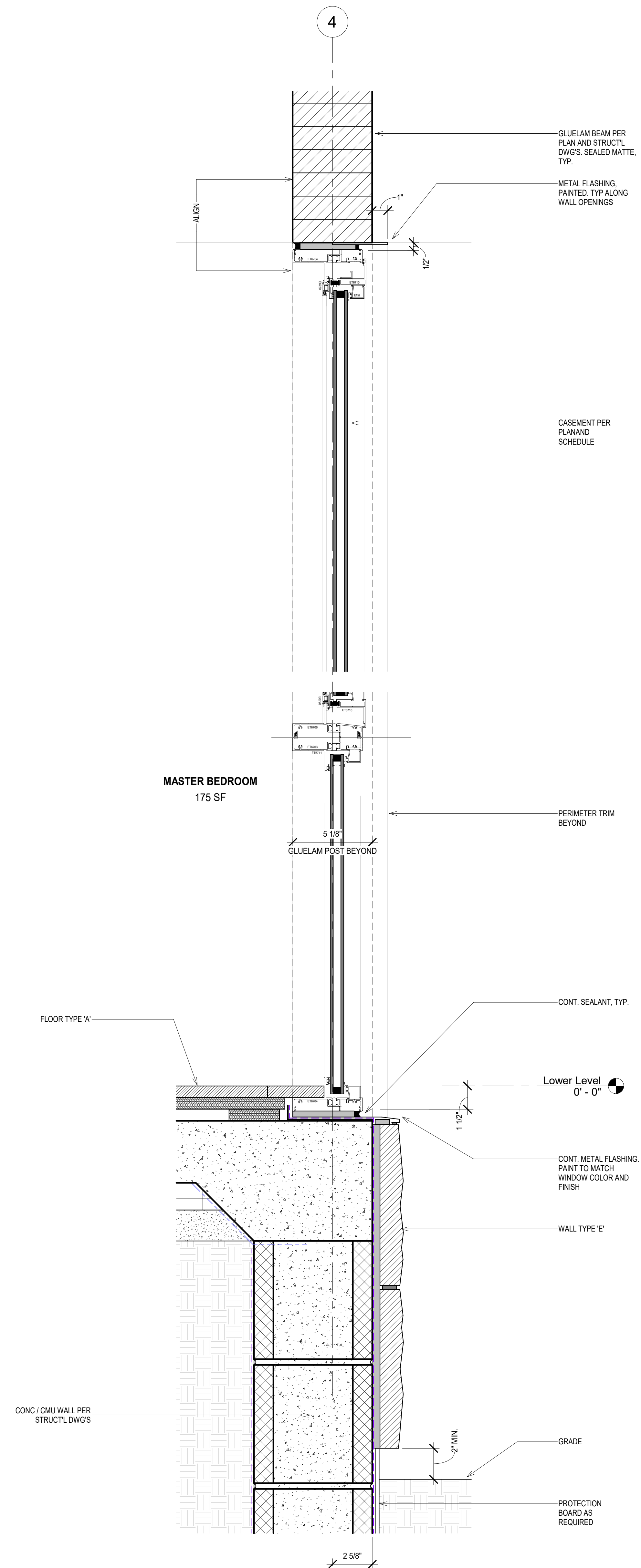
PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-701-R	3" = 1'-0"



3 Detail Section WW 600-Fixed
3" = 1'-0"



2 Detail Section WW 600-Fixed-Awning
3" = 1'-0"



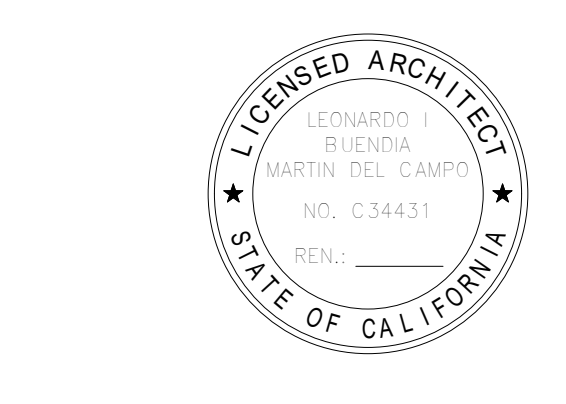
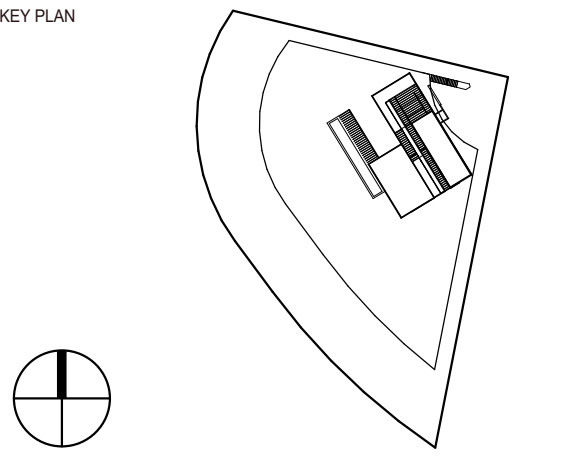
1 Detail Section WW 600-Fixed-Casement
3" = 1'-0"

NO	DATE	REASON FOR ISSUE	CHK
01	08/21/23	Bulletin_01	LB

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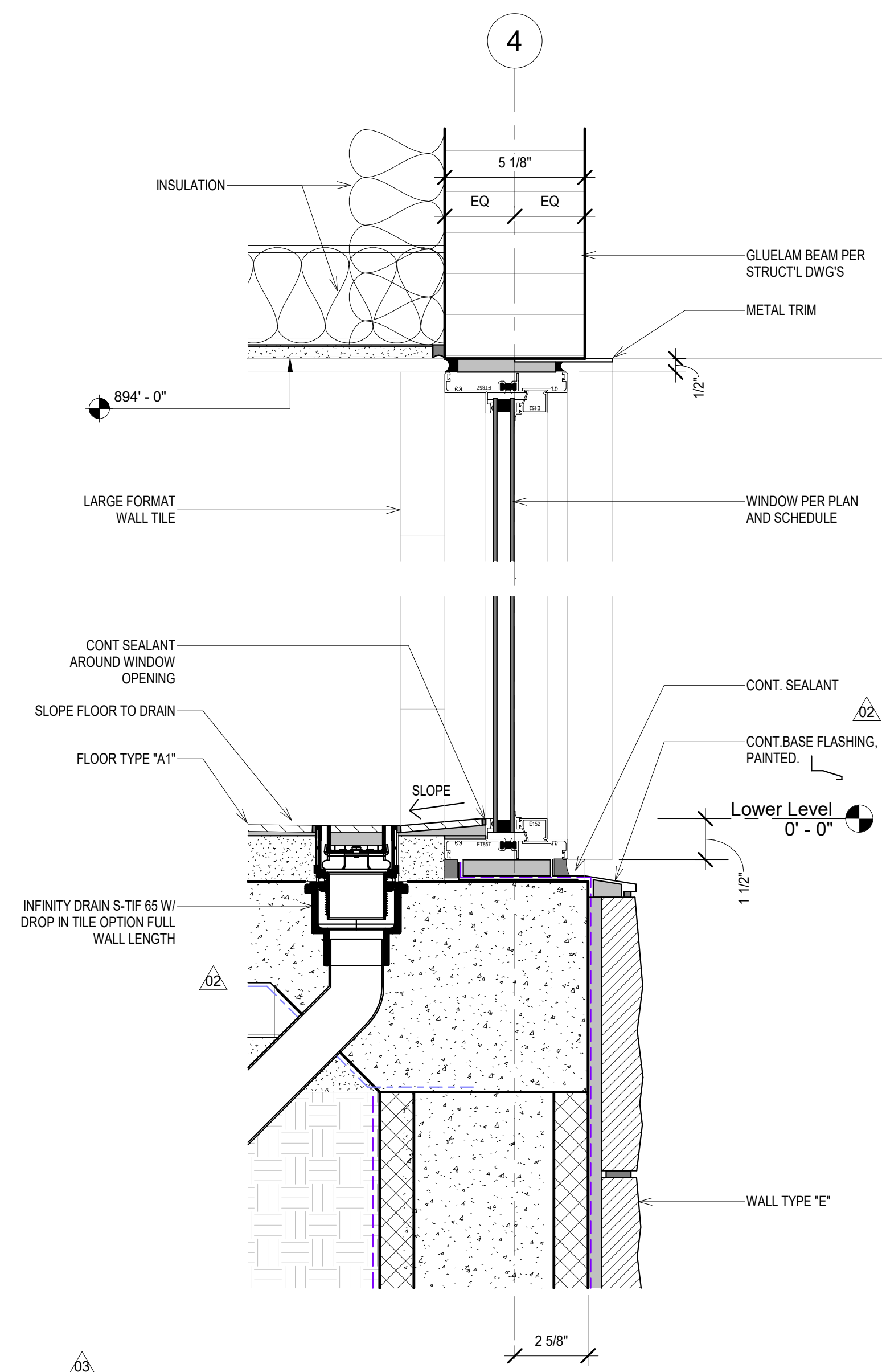
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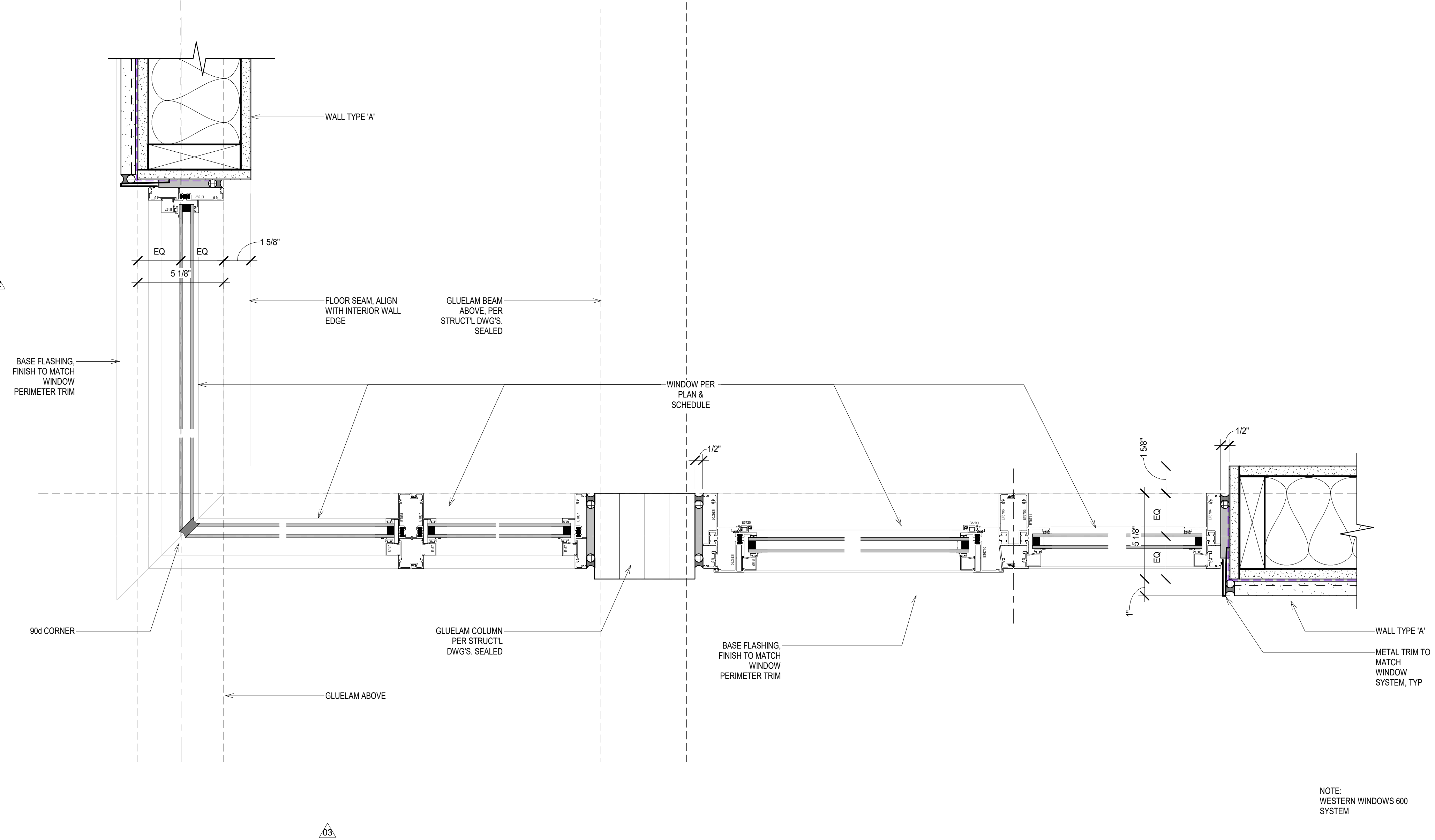
PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Details

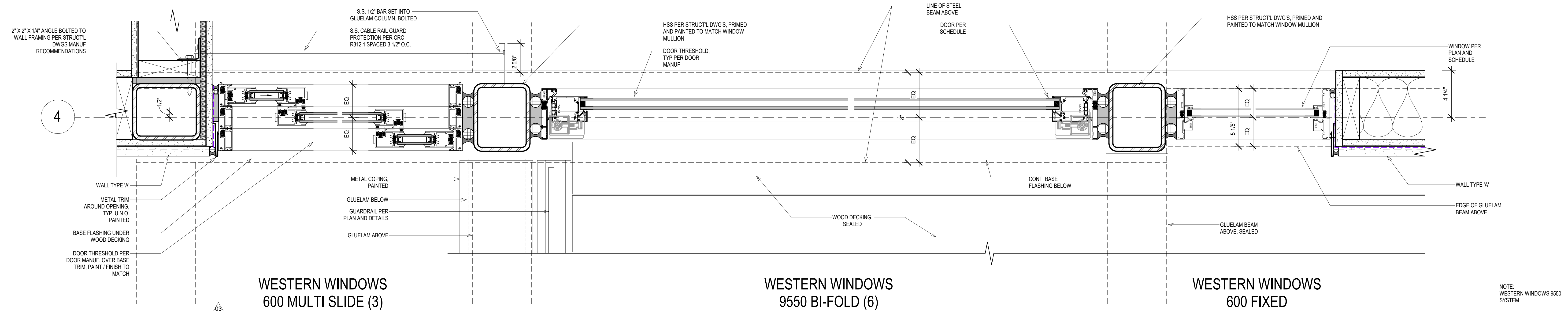
PROJECT NUMBER	DATE
DZK-2018-01	11/27/2019
A-702-R	3" = 1'-0"



4 Detail Section Frameless Window
3\"/>



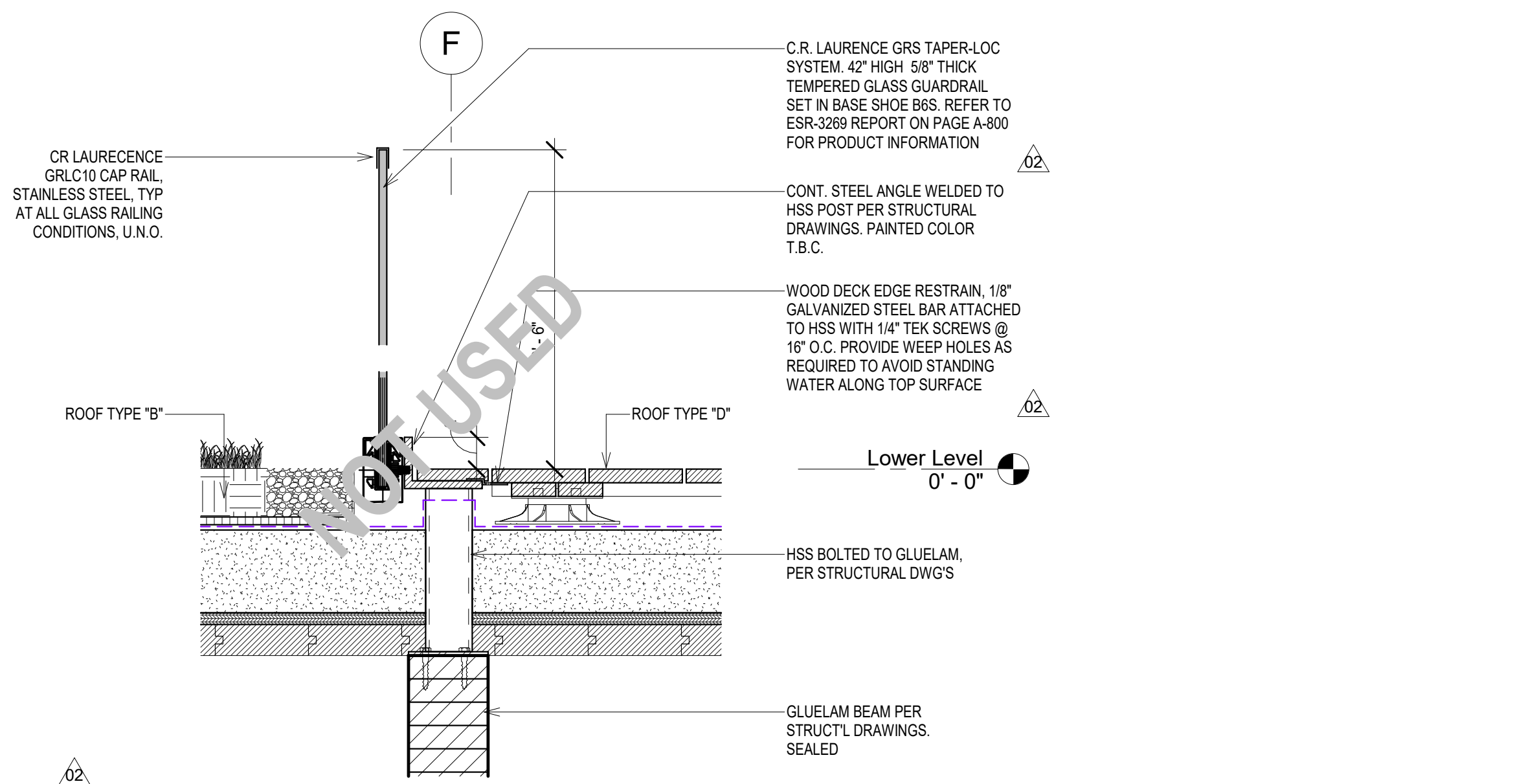
1 Window Plan Detail Master Bedroom 600 System
3\"/>



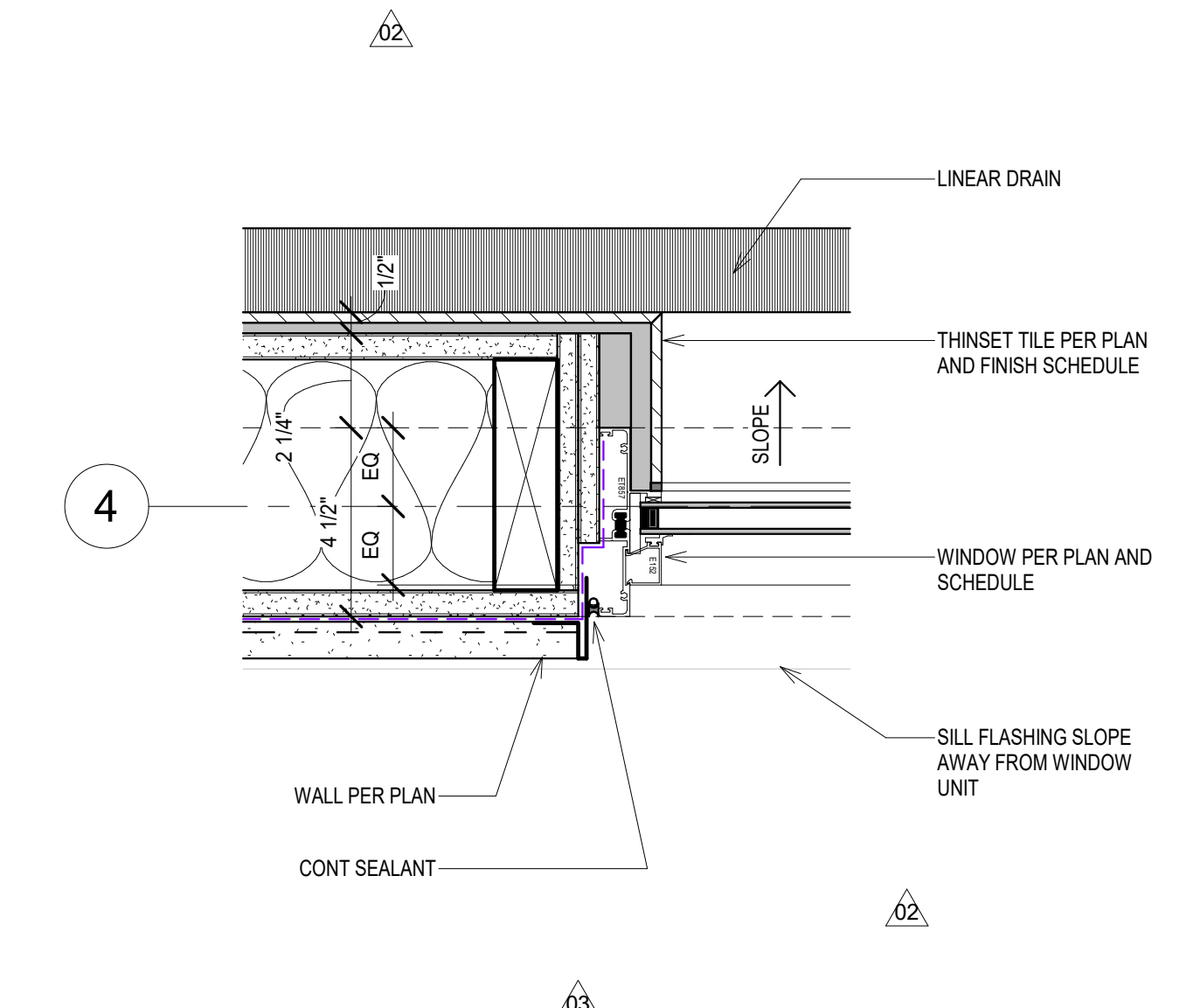
5 Window / Door Plan Detail Living & Dining Room Western 9550
3\"/>

WESTERN WINDOWS 9550 BI-FOLD (6)

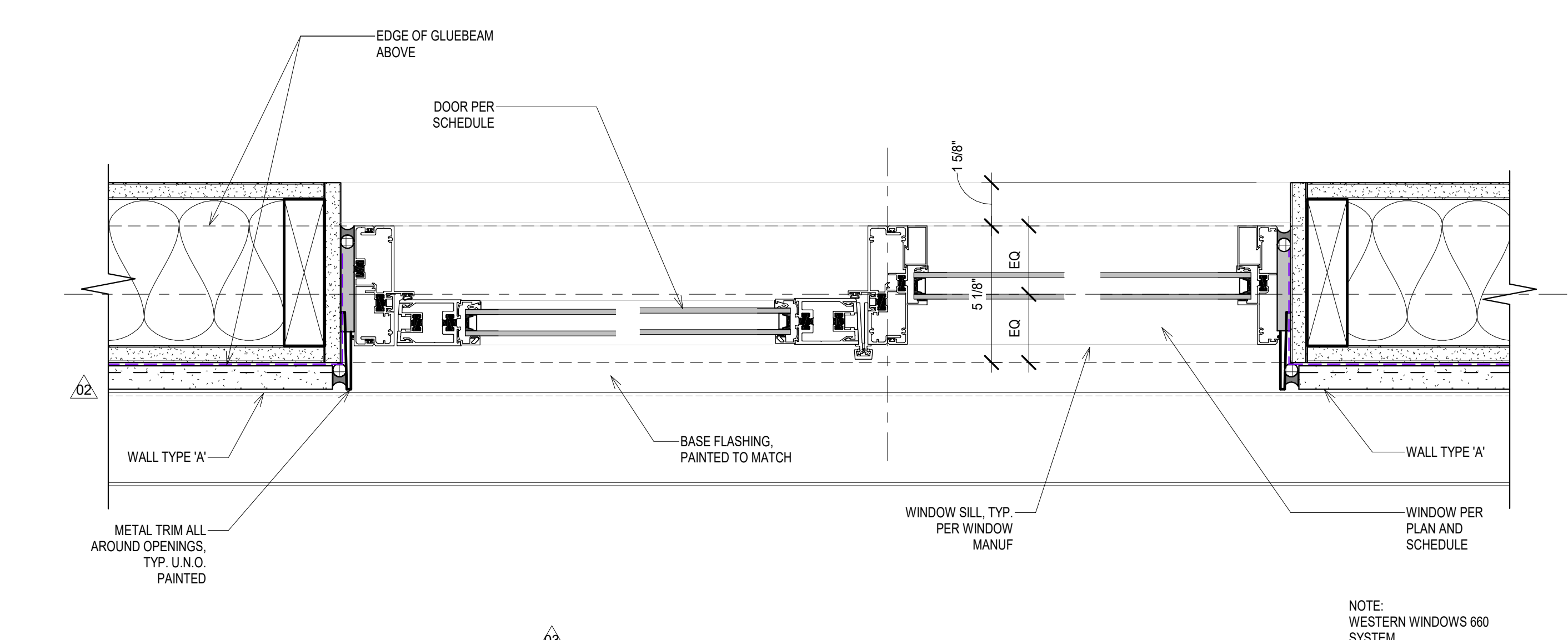
WESTERN WINDOWS 600 FIXED



6 Detail Section Lower Level Terrace Handrail_02
1 1/2\"/>



3 Detail Plan Jamb At Frameless Window
3\"/>



2 Window / Door Plan Detail Bedroom #2 600 Swing
3\"/>

NO	DATE	REASON FOR ISSUE	CHK
03	08/21/23	Bulletin_01	LB
02	03/30/22	City Plan Check #03	LB
01	08/21/20	City Plan Check #01	LB

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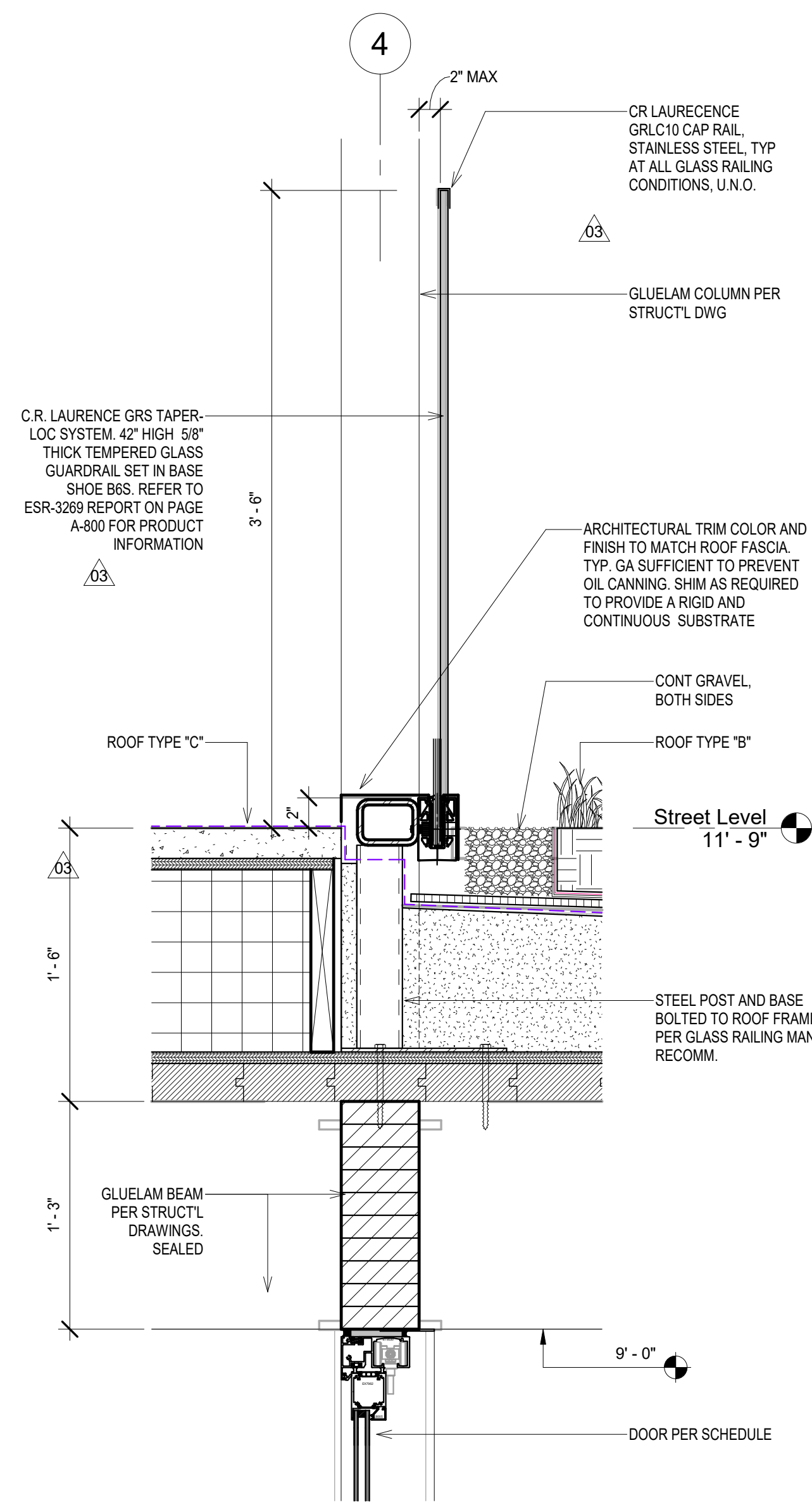
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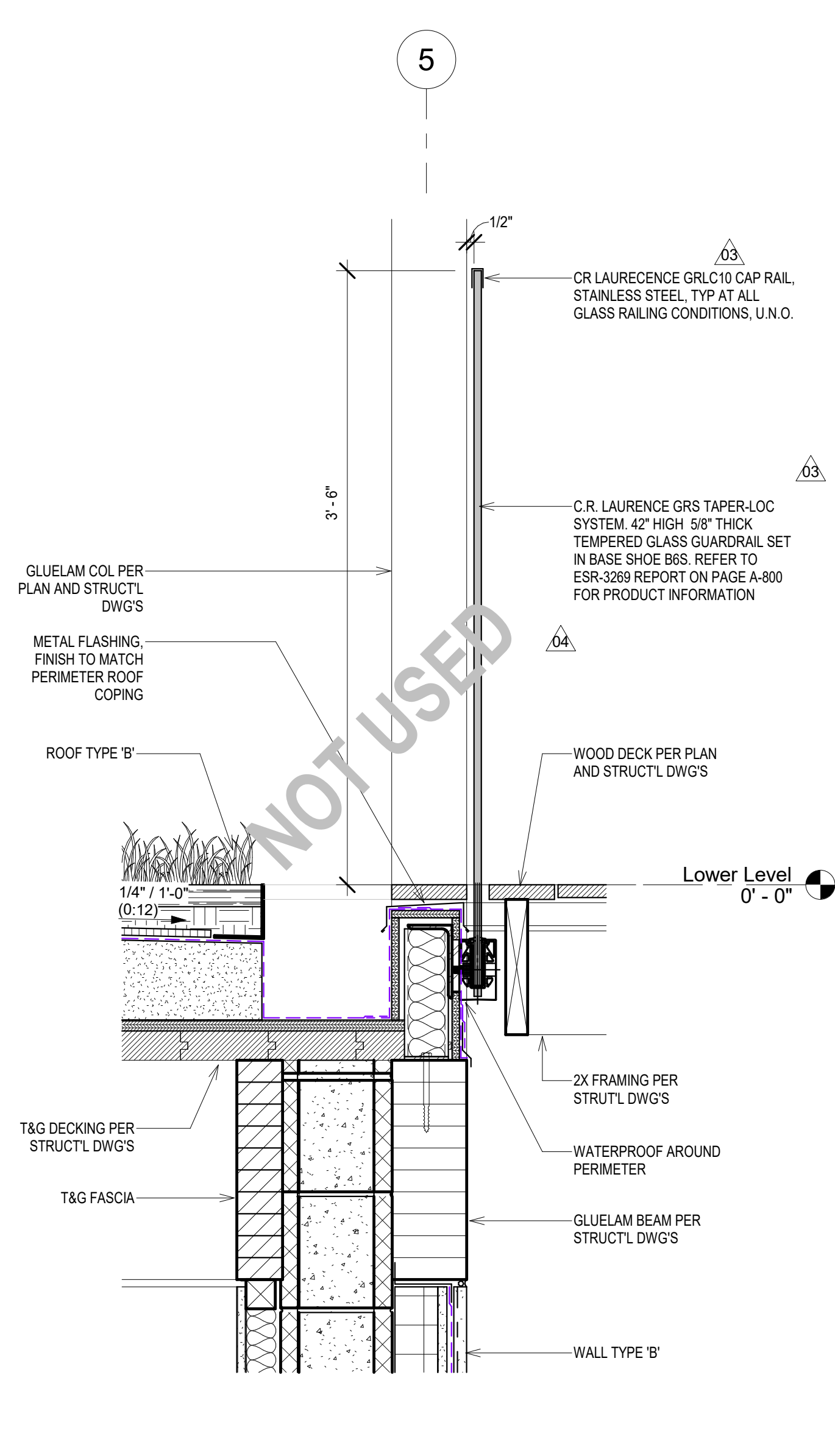
PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Door & Window Floor Plan Details

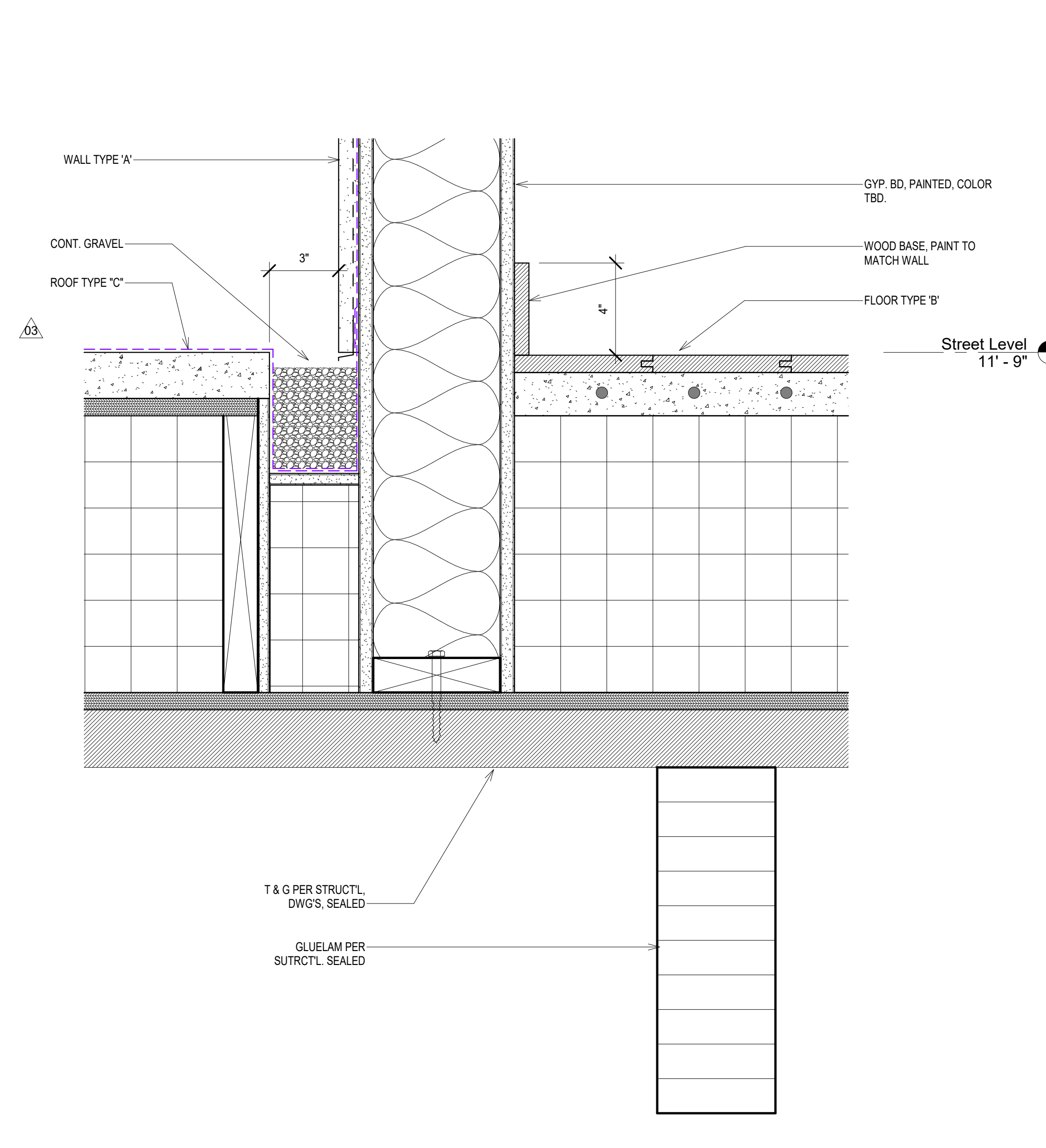
PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-703-R	As indicated



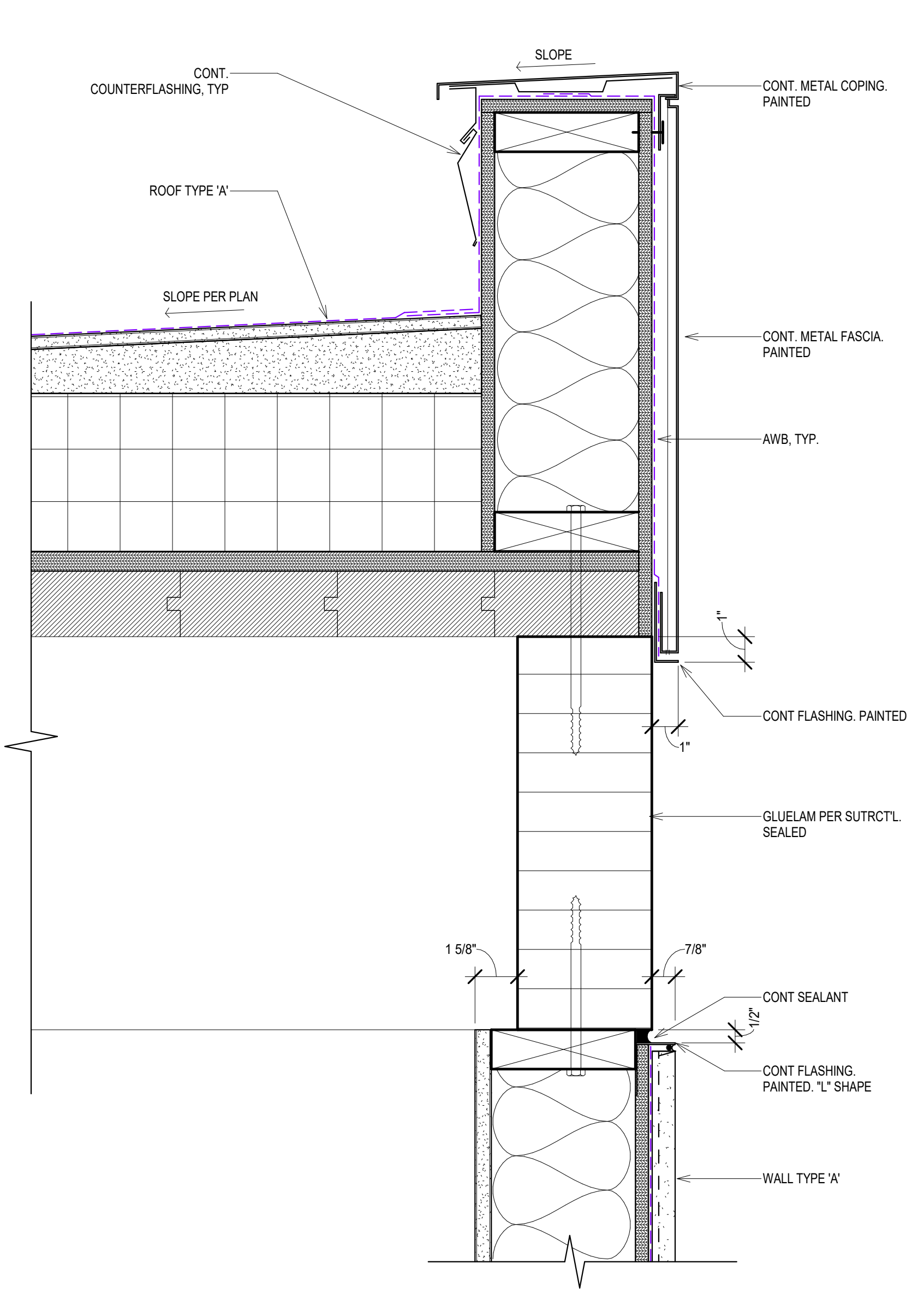
8 Detail Section Street Level Terrace Guardrail @ Conc. Slab
1 1/2" = 1'-0"



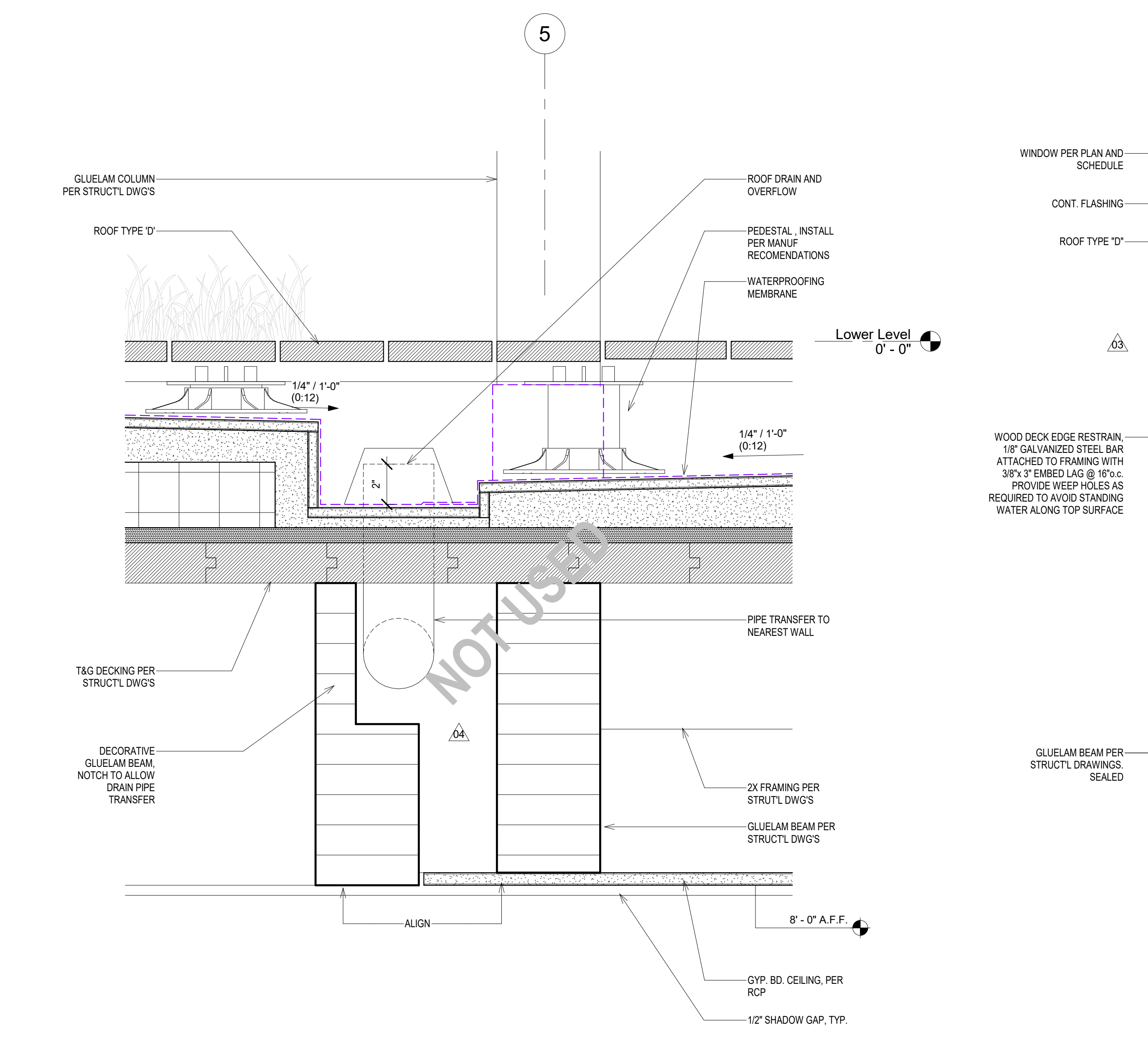
5 Detail Section Lower Level Terrace Handrail_01
1 1/2" = 1'-0"



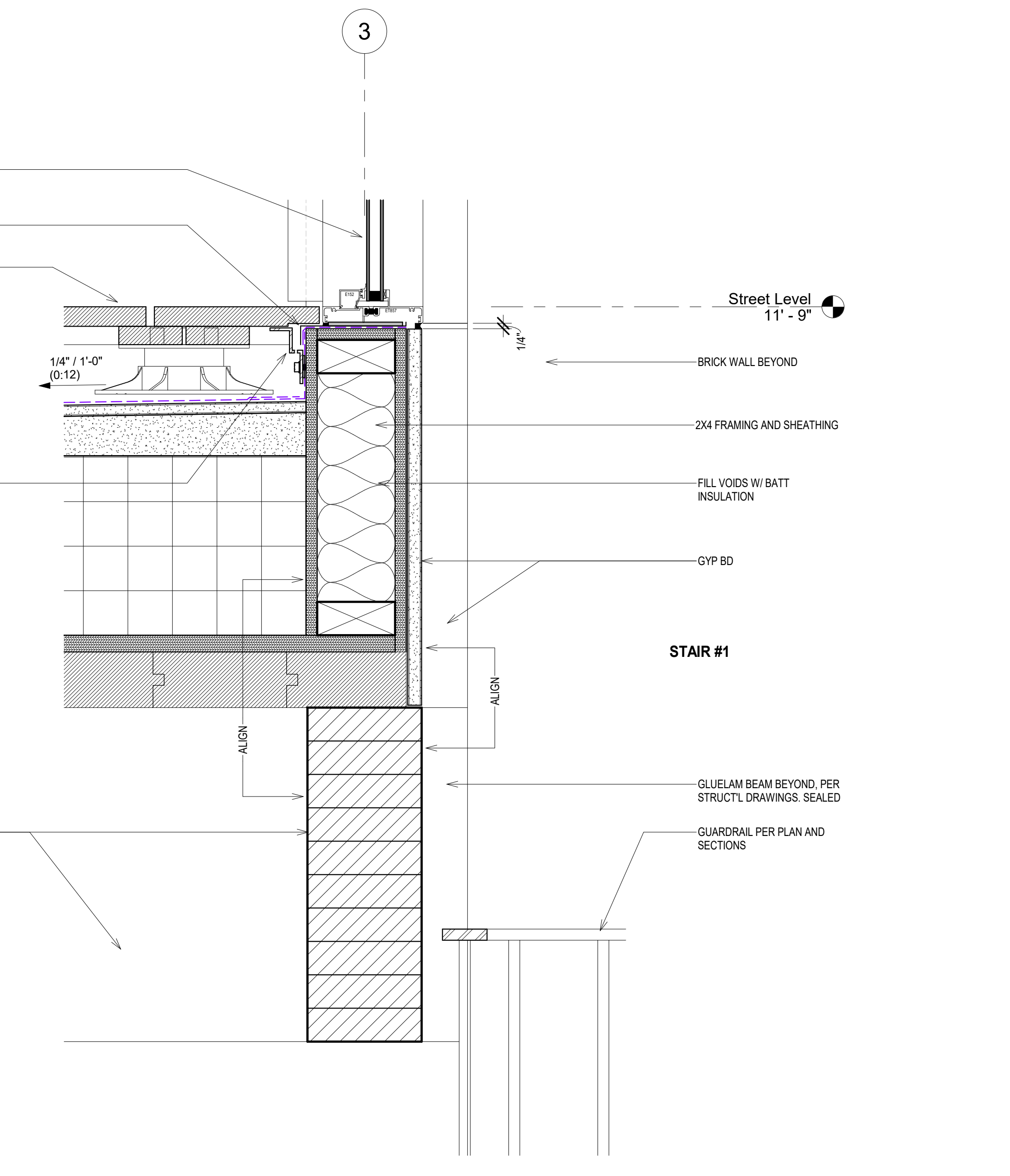
3 Detail Section Sill at Garage Wall
3" = 1'-0"



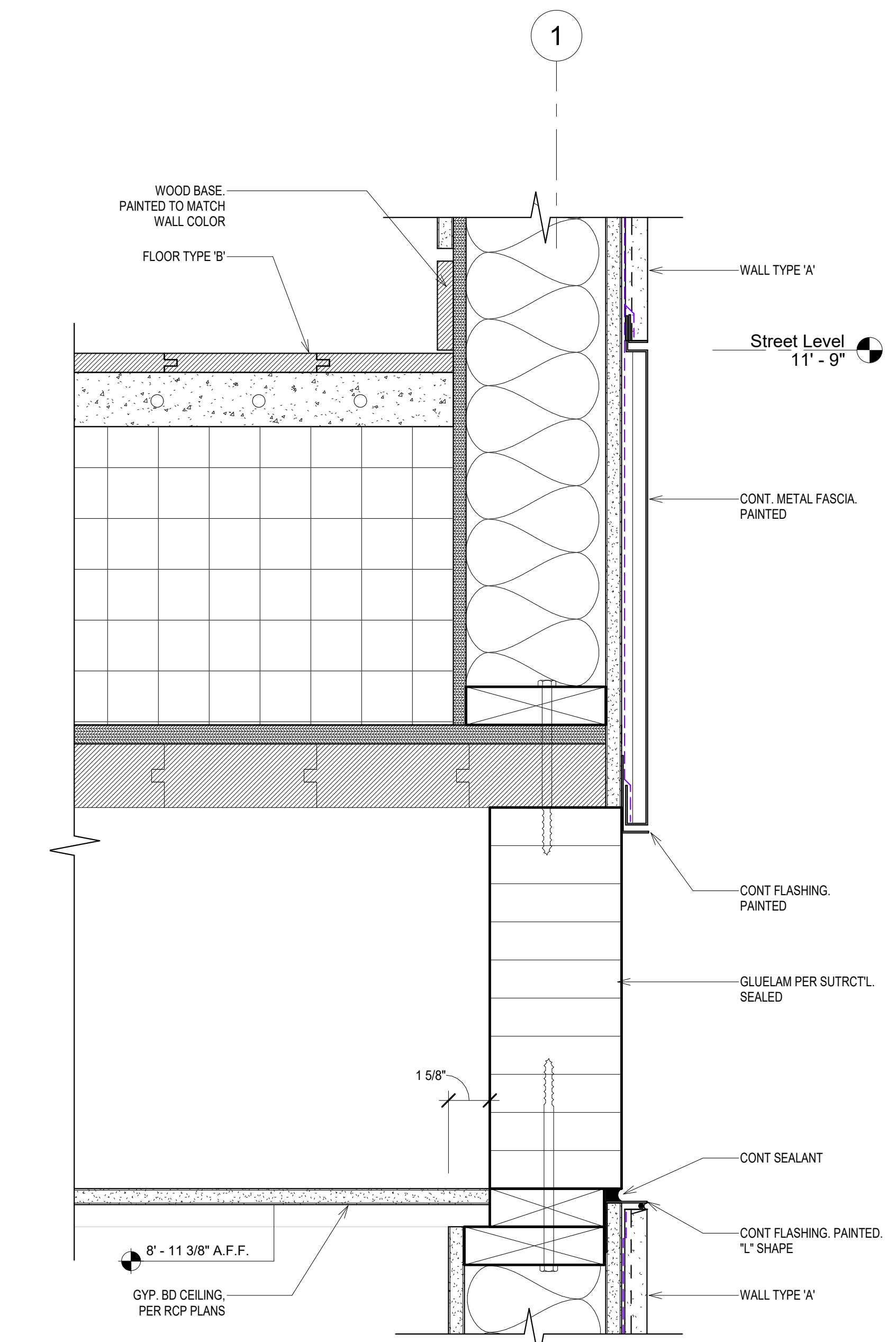
1 Parapet Detail Typ.
3" = 1'-0"



7 Detail Section @ Terrace Drain
3" = 1'-0"



4 Detail Section L02 Sill Detail Glazed Partition
3" = 1'-0"



2 Detail Section L02 Slab Edge Typ
3" = 1'-0"

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NO	DATE	REASON FOR ISSUE	CHK
04	08/21/23	Bulletin_01	LB
03	03/30/22	City Plan Check #03	LB
02	03/10/21	City Plan Check #02	LB
01	08/21/20	City Plan Check #01	LB

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Patricia Dziuk

KEY PLAN

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PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Details

PROJECT NUMBER
DZK-2018-01

DATE
11/27/2019

SCALE
As indicated

NO	DATE	REASON FOR ISSUE	CHK
02	04/19/24	Bulletin_02	LB
01	08/21/23	Bulletin_01	LB

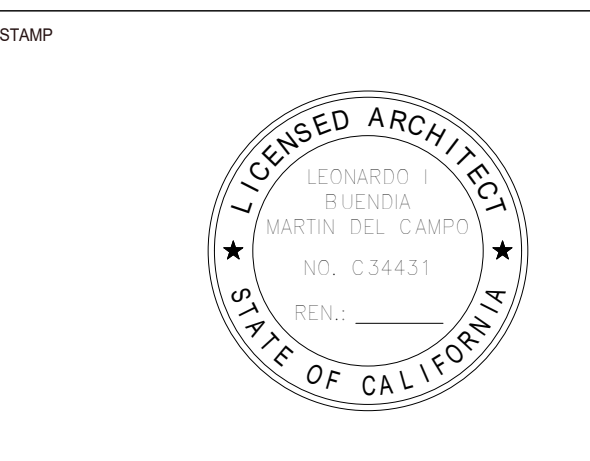
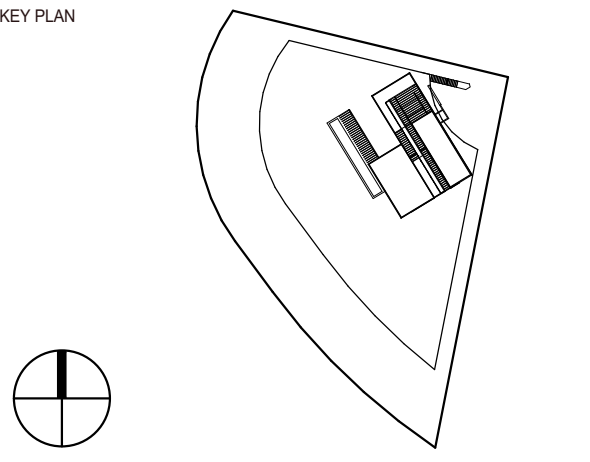
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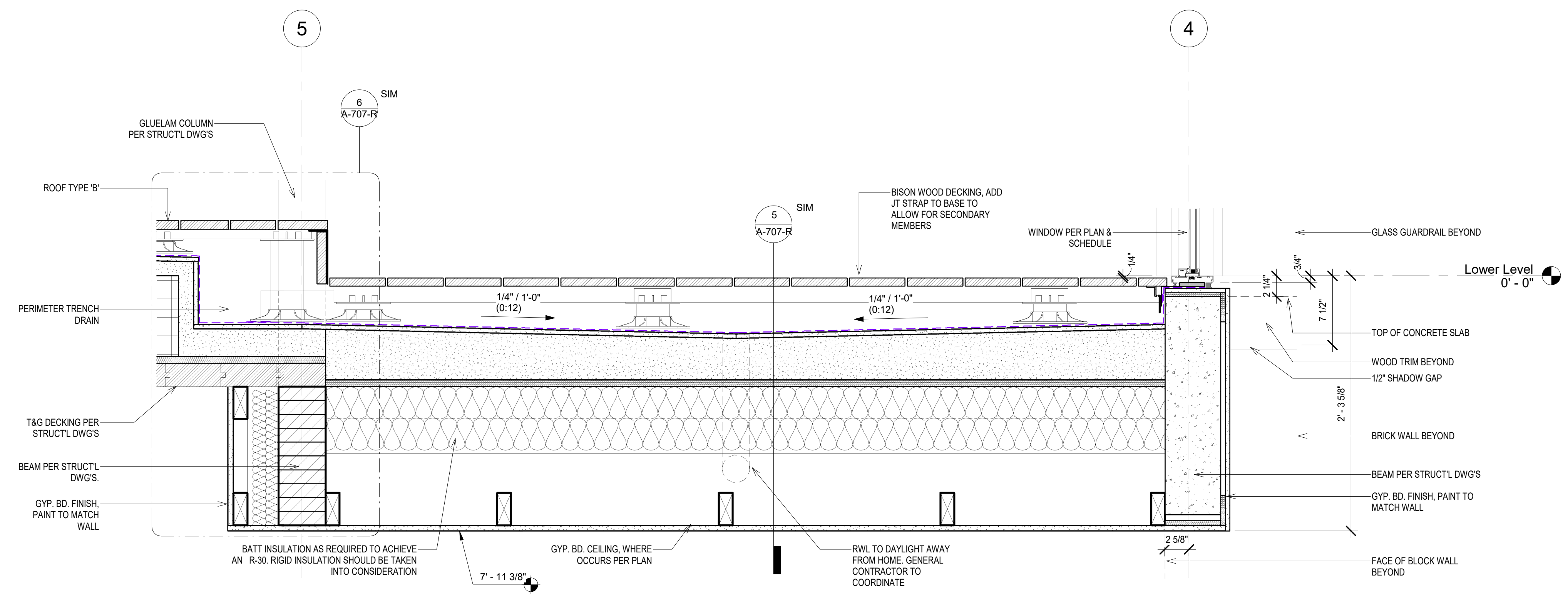
CLIENT
Patricia Dziuk



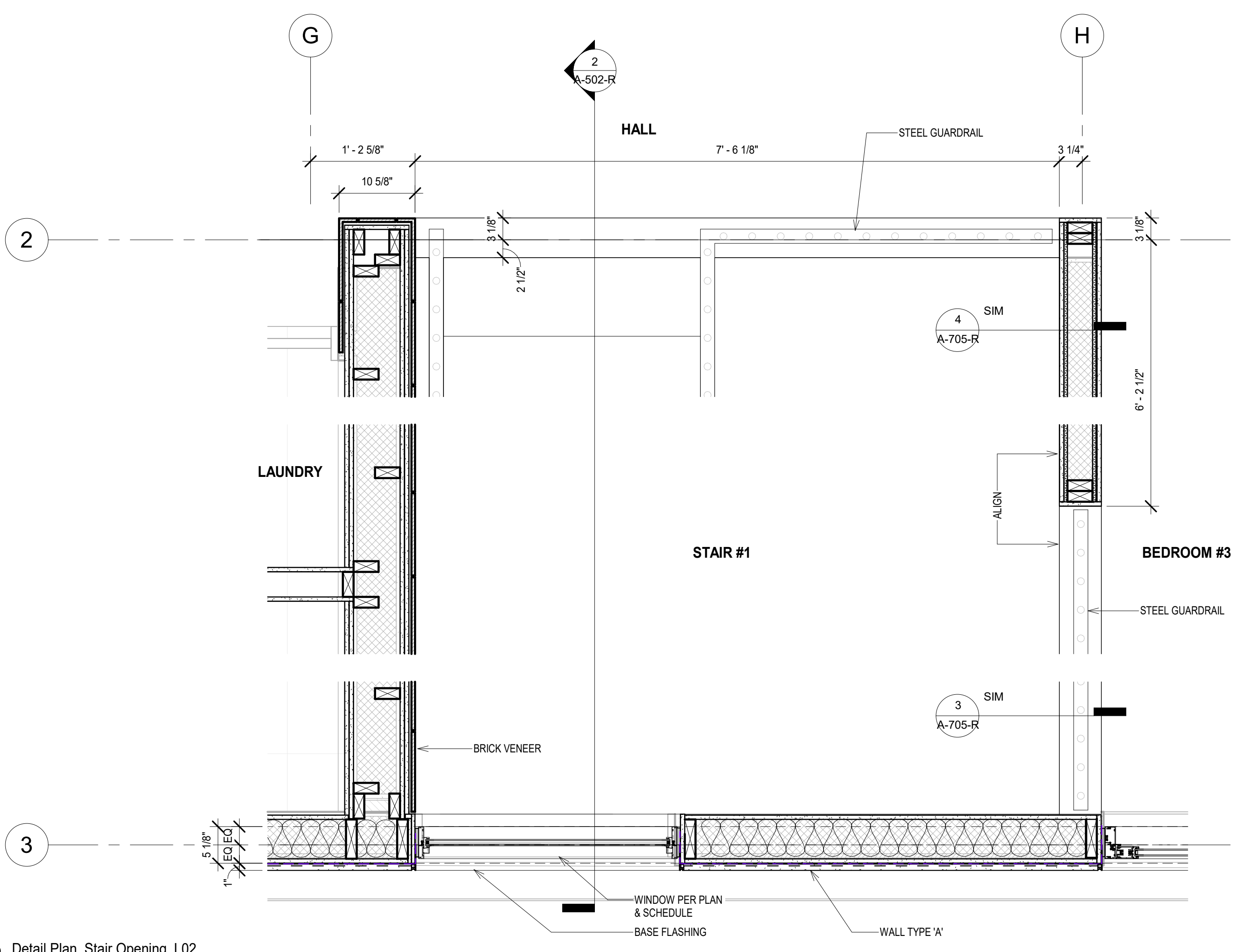
PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Details

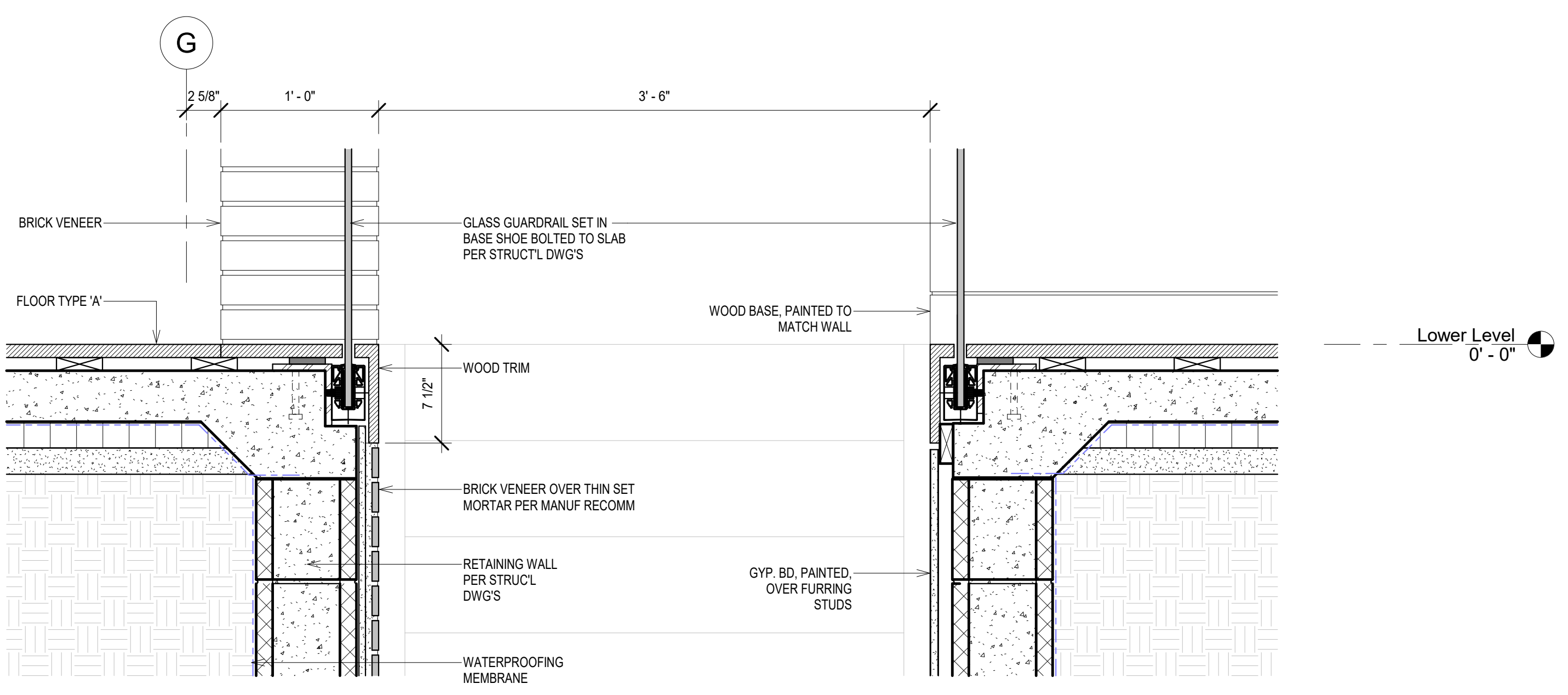
PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-705-R	As indicated



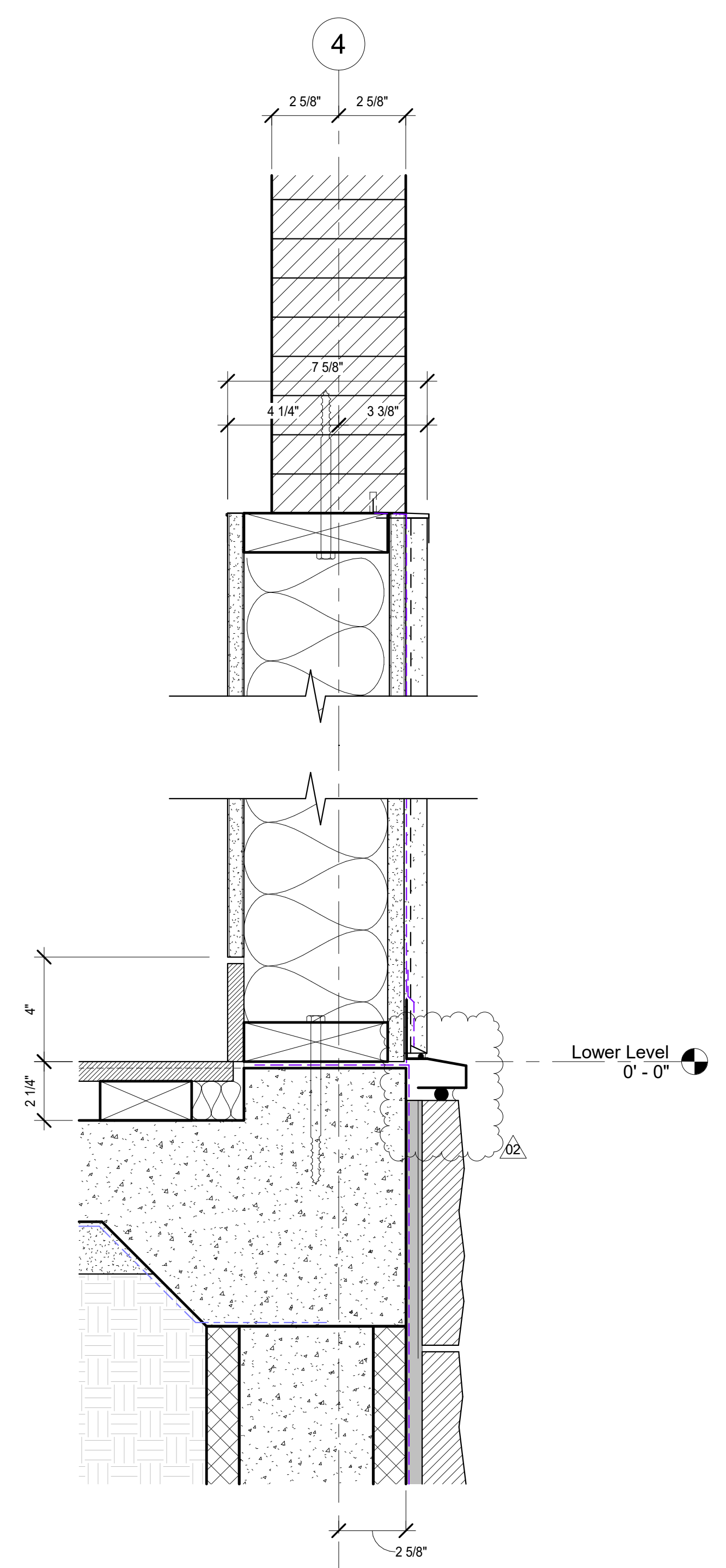
1 Section Through Tunnel Roof Framing
 1 1/2" = 1'-0"



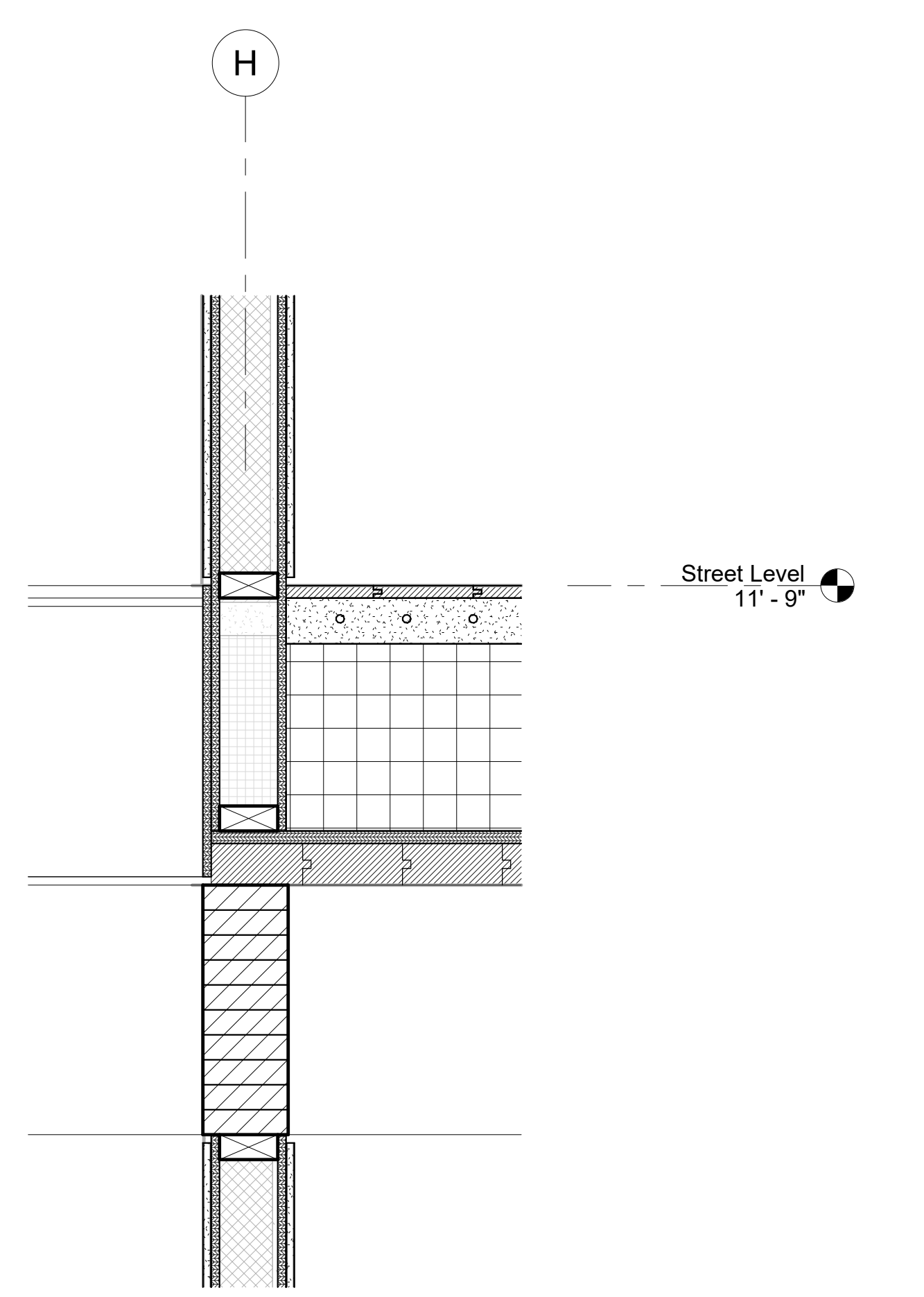
2 Detail Plan Stair Opening L02
 1" = 1'-0"



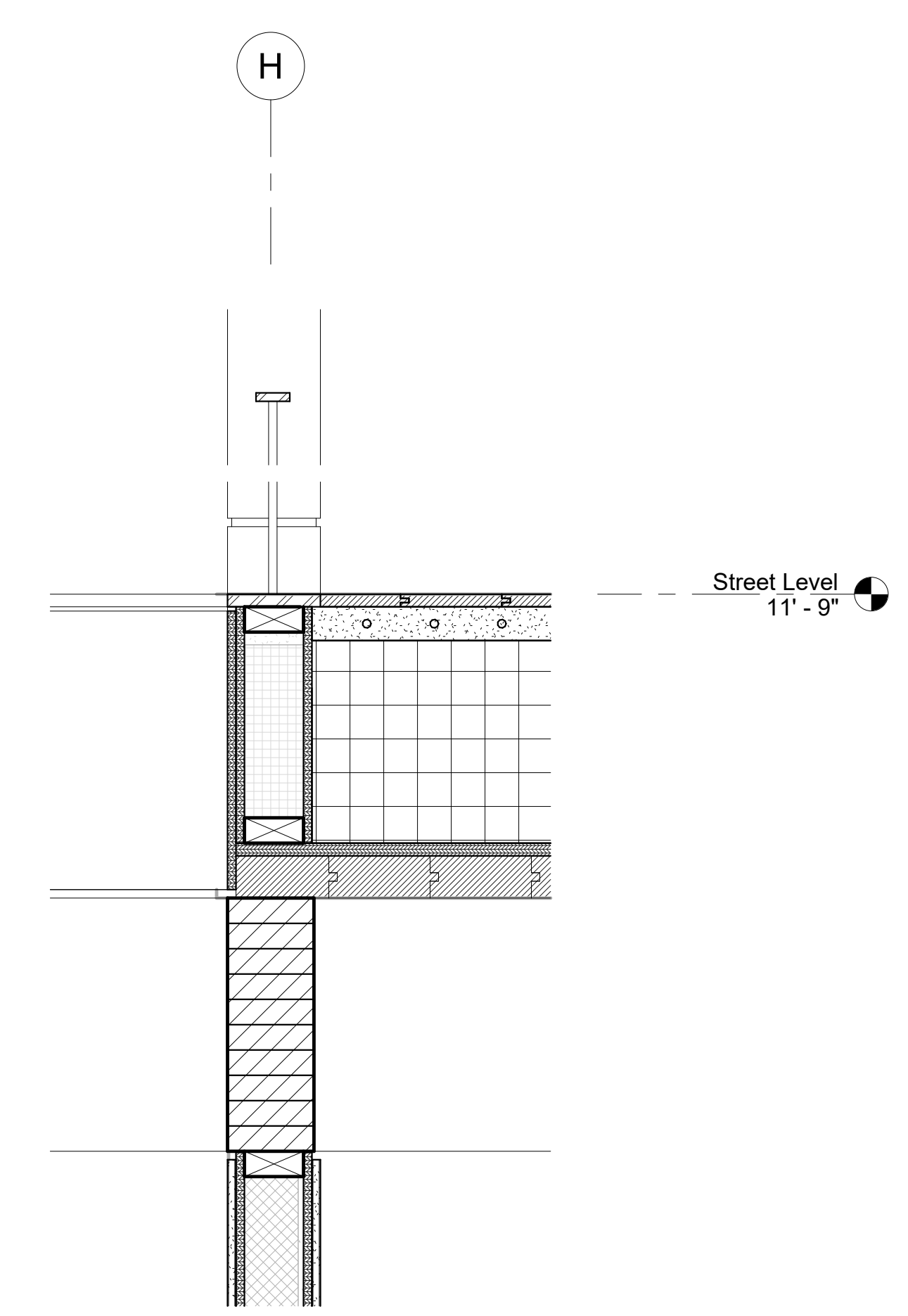
5 Detail Section Edge of Slab Pool Stair
 1 1/2" = 1'-0"



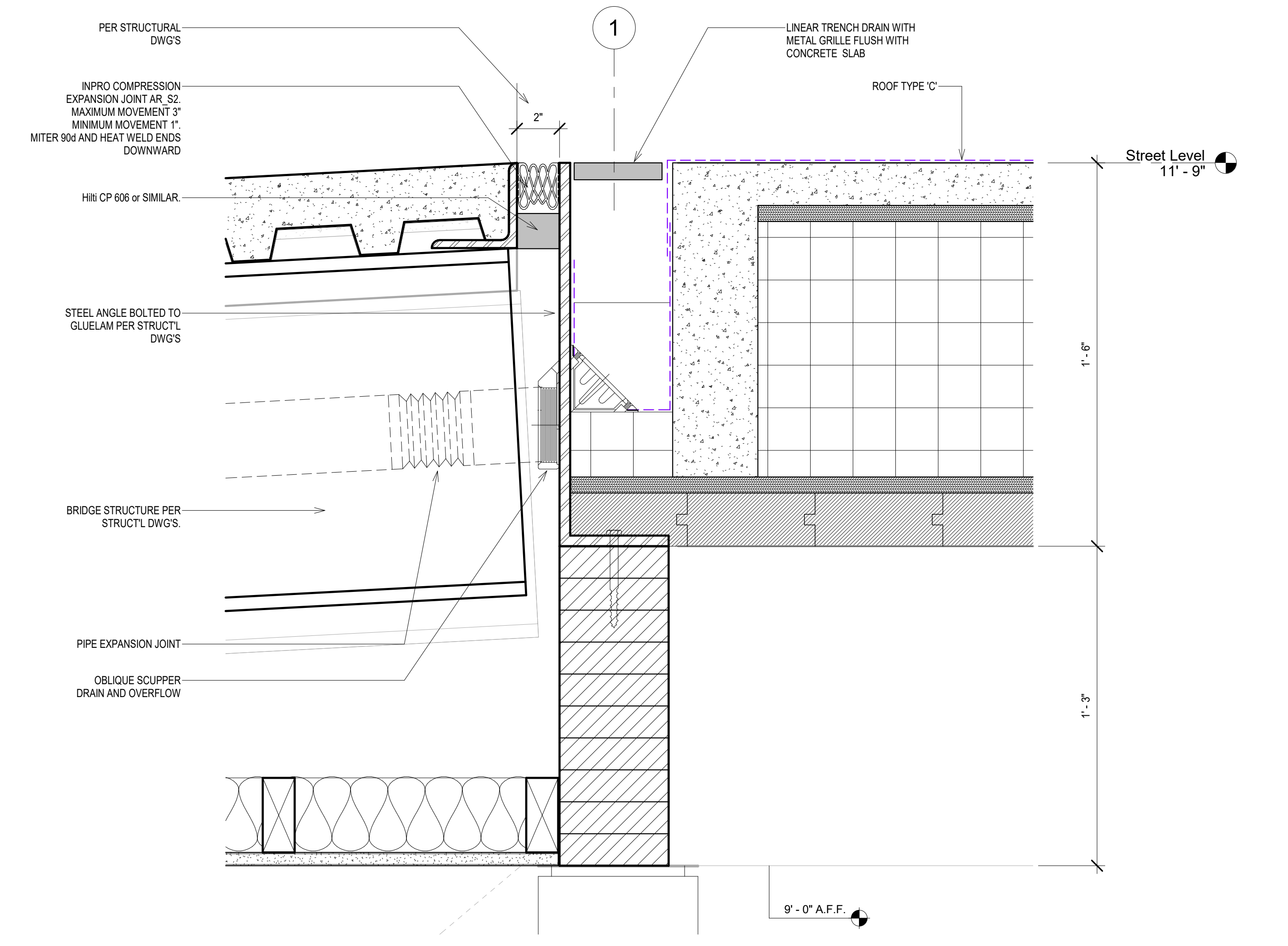
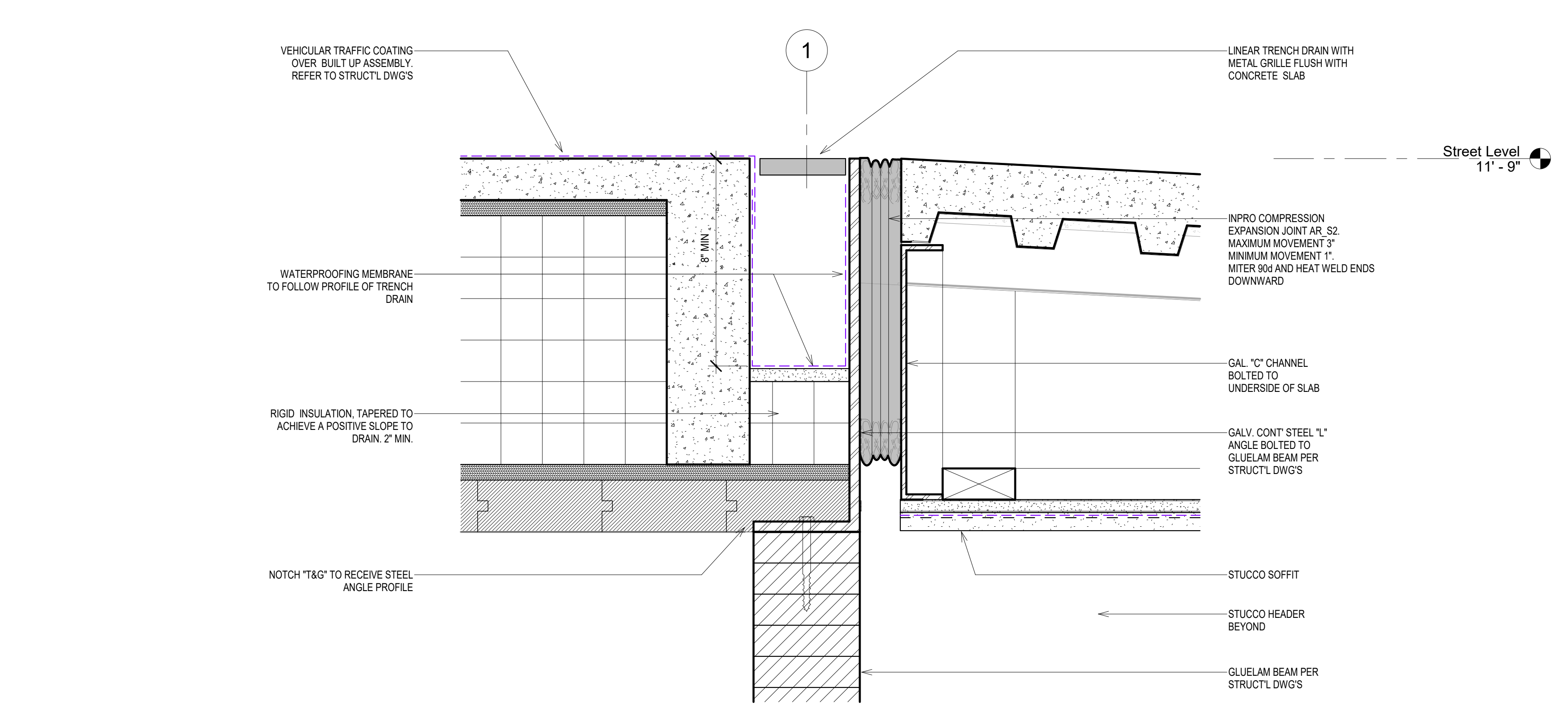
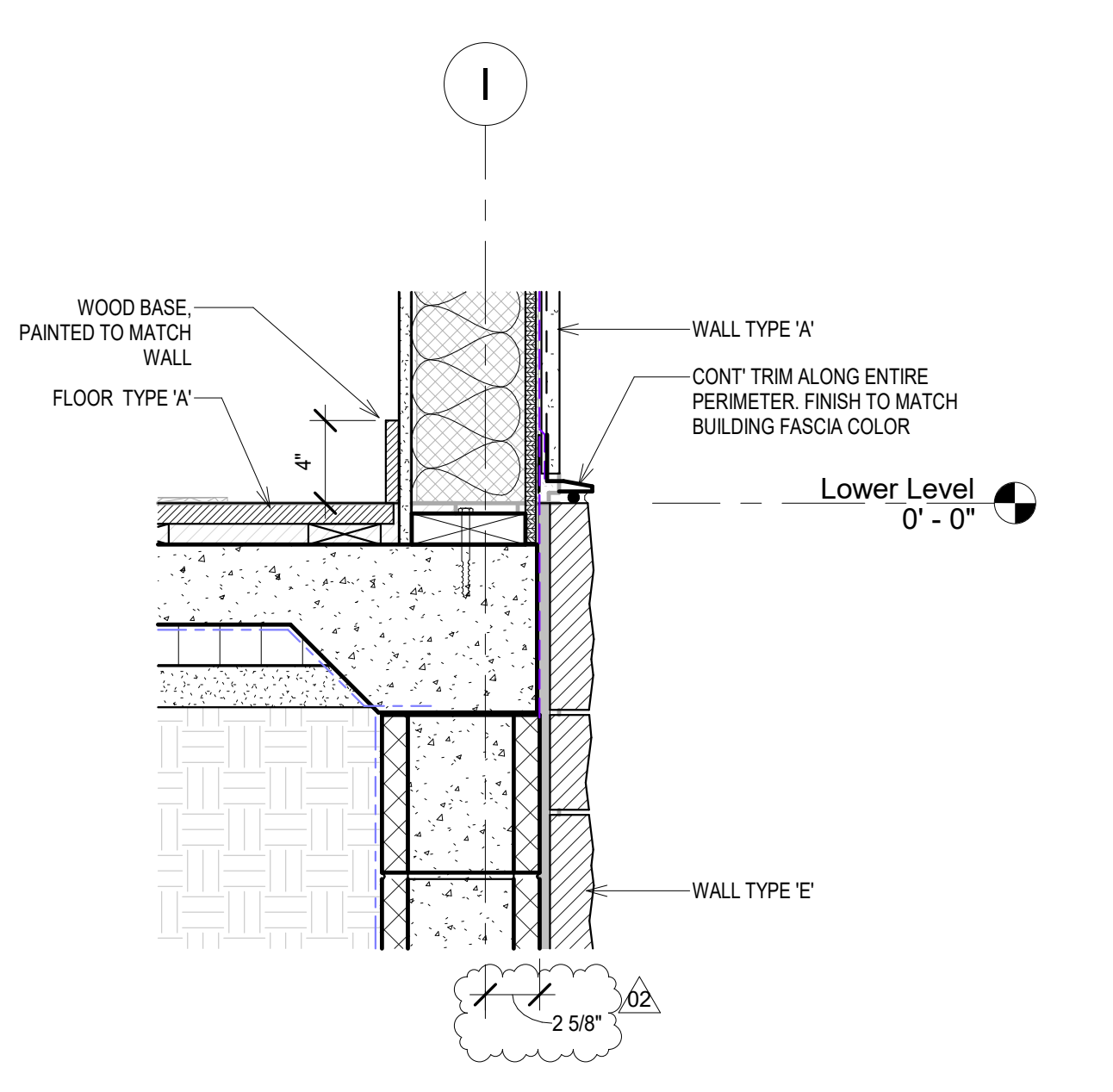
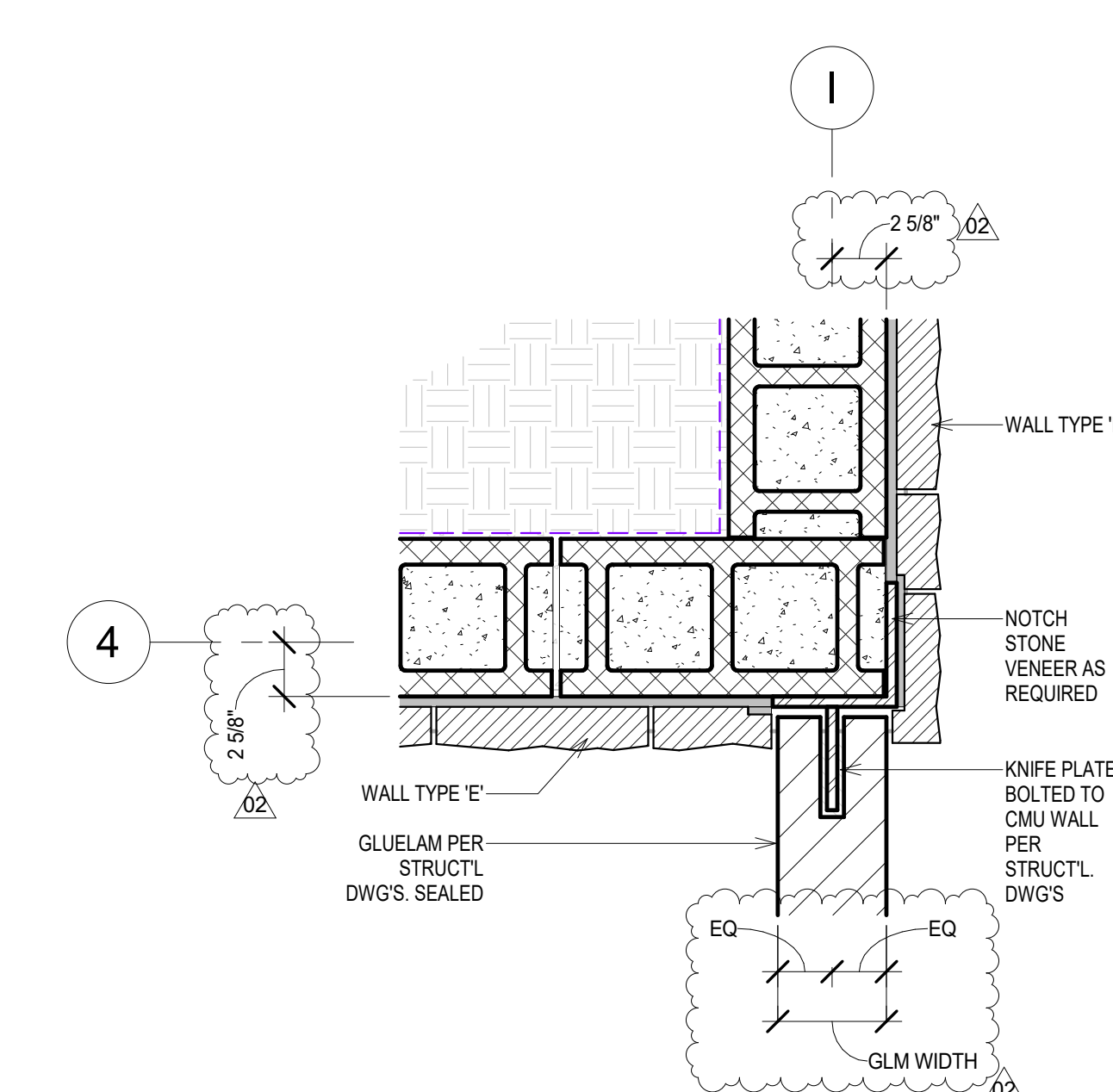
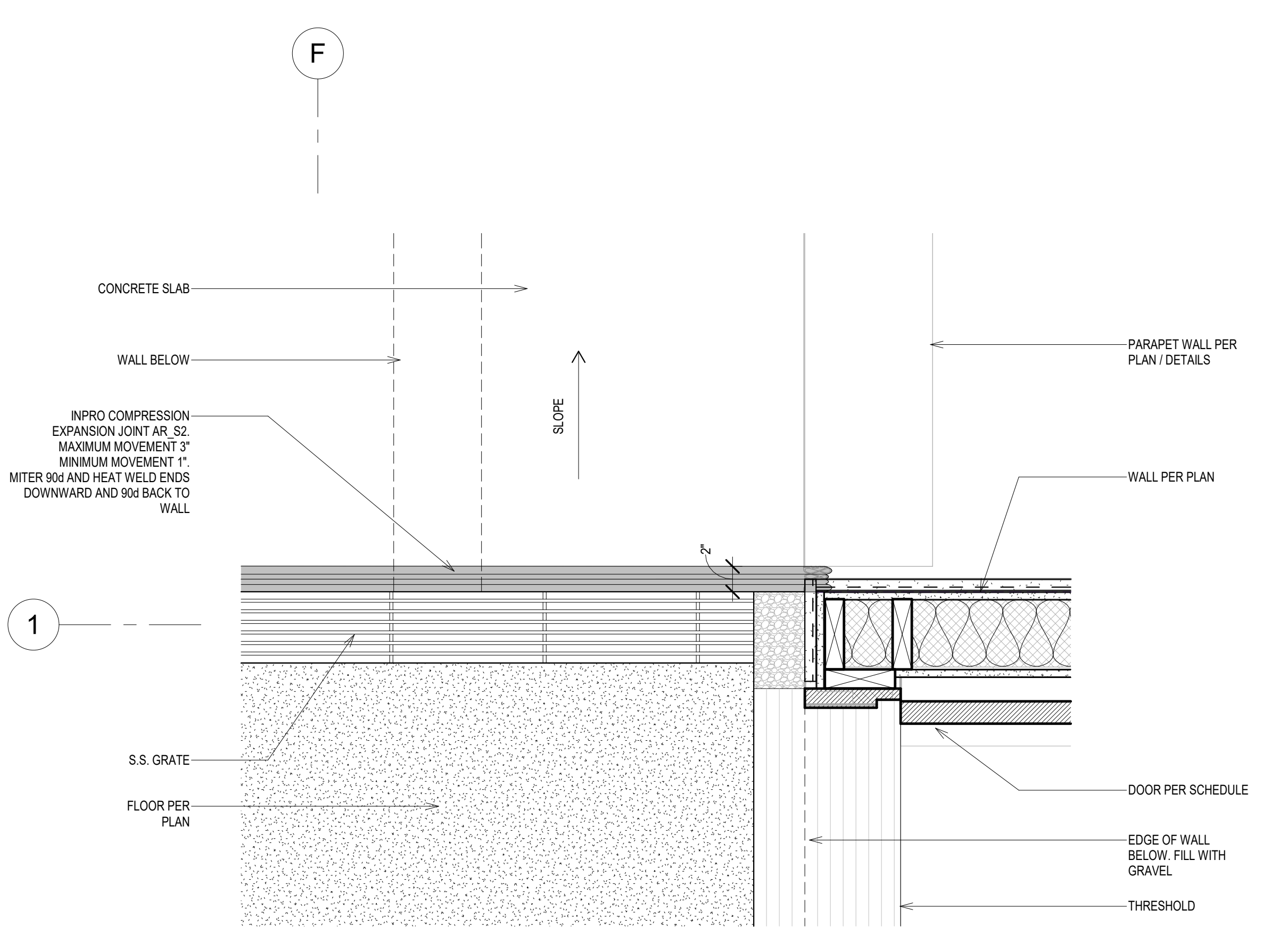
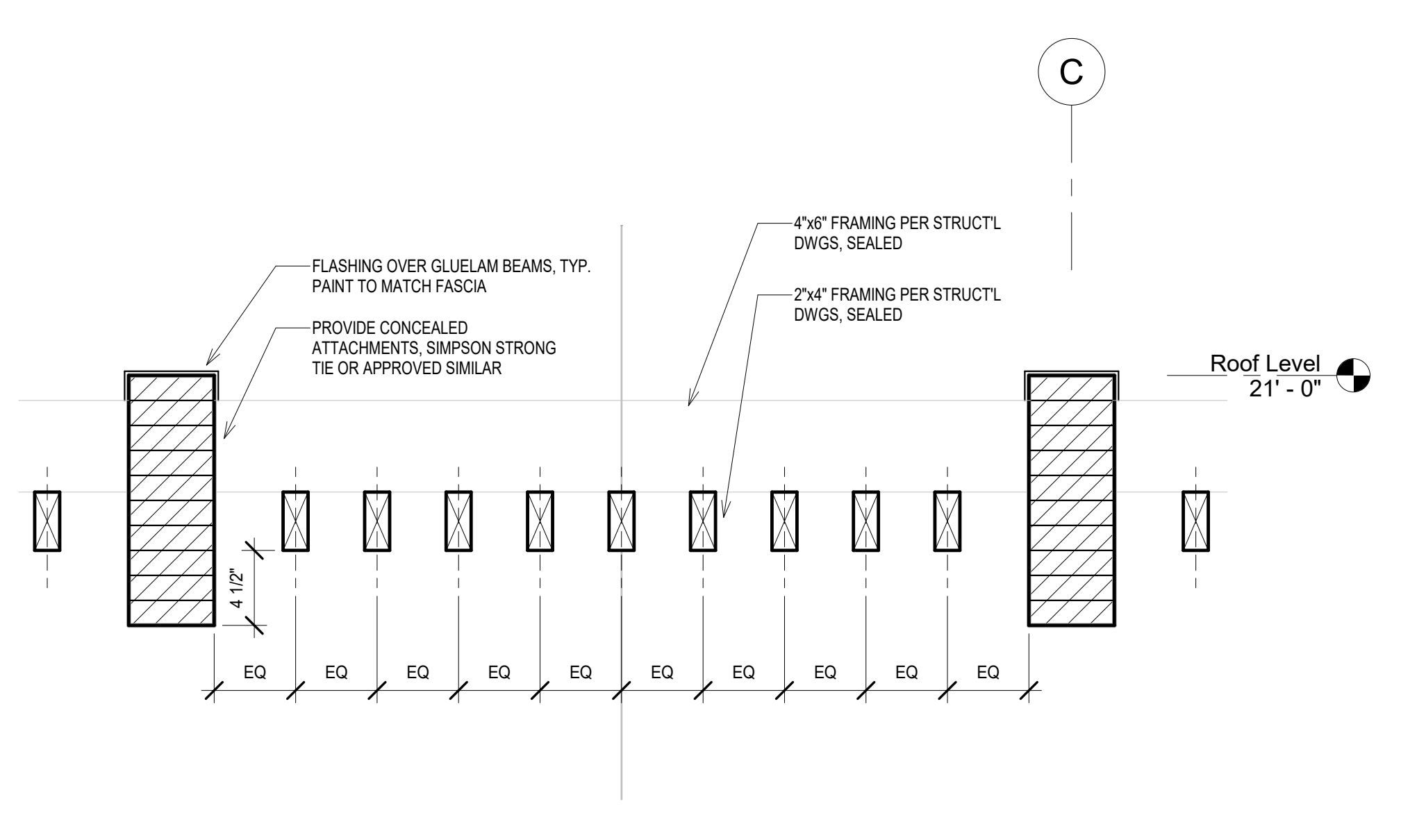
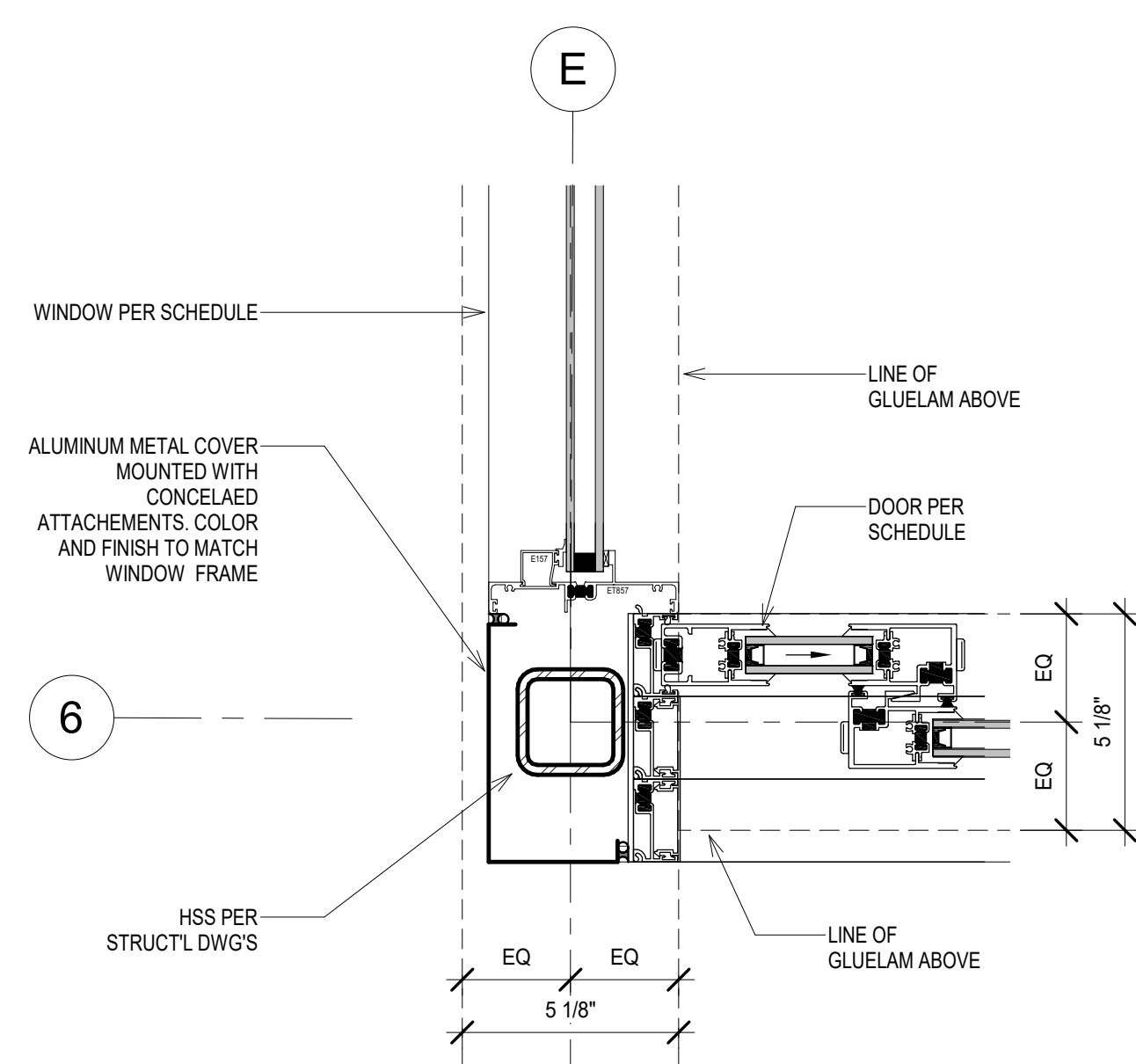
4 Detail Section @ Stair L02 Opening Wall
 3" = 1'-0"



6 Detail Section Edge of SOG Stud Wall to CMU Wall Transition
 3" = 1'-0"



3 Detail Section @ Stair L02 Opening Rail
 1 1/2" = 1'-0"



NO	DATE	REASON FOR ISSUE	CHK
02	04/19/24	Bulletin_02	LB
01	08/21/23	Bulletin_01	LB

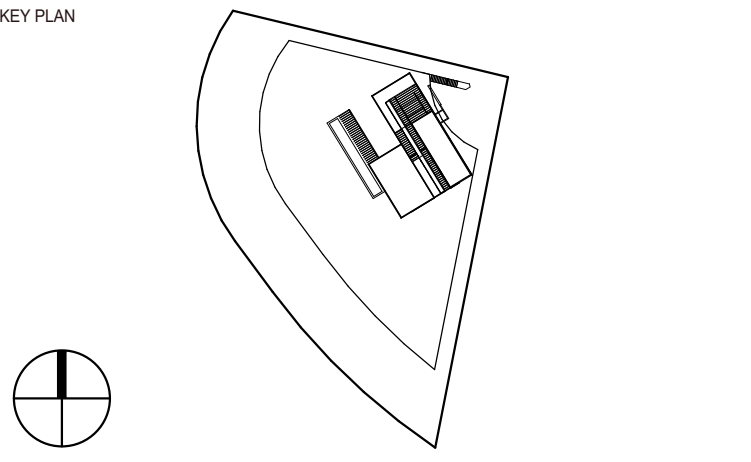
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Patricia Dziuk

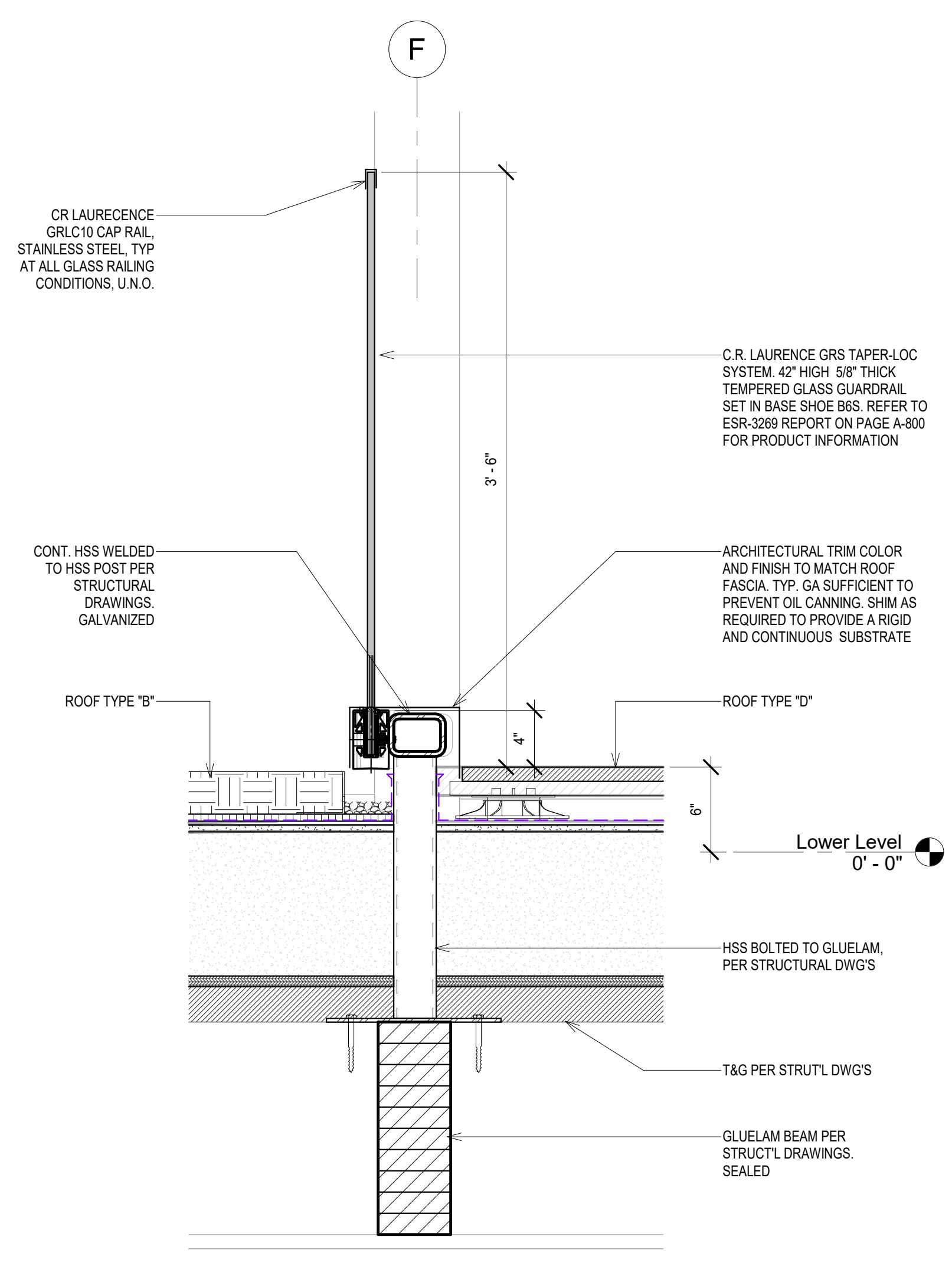


PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

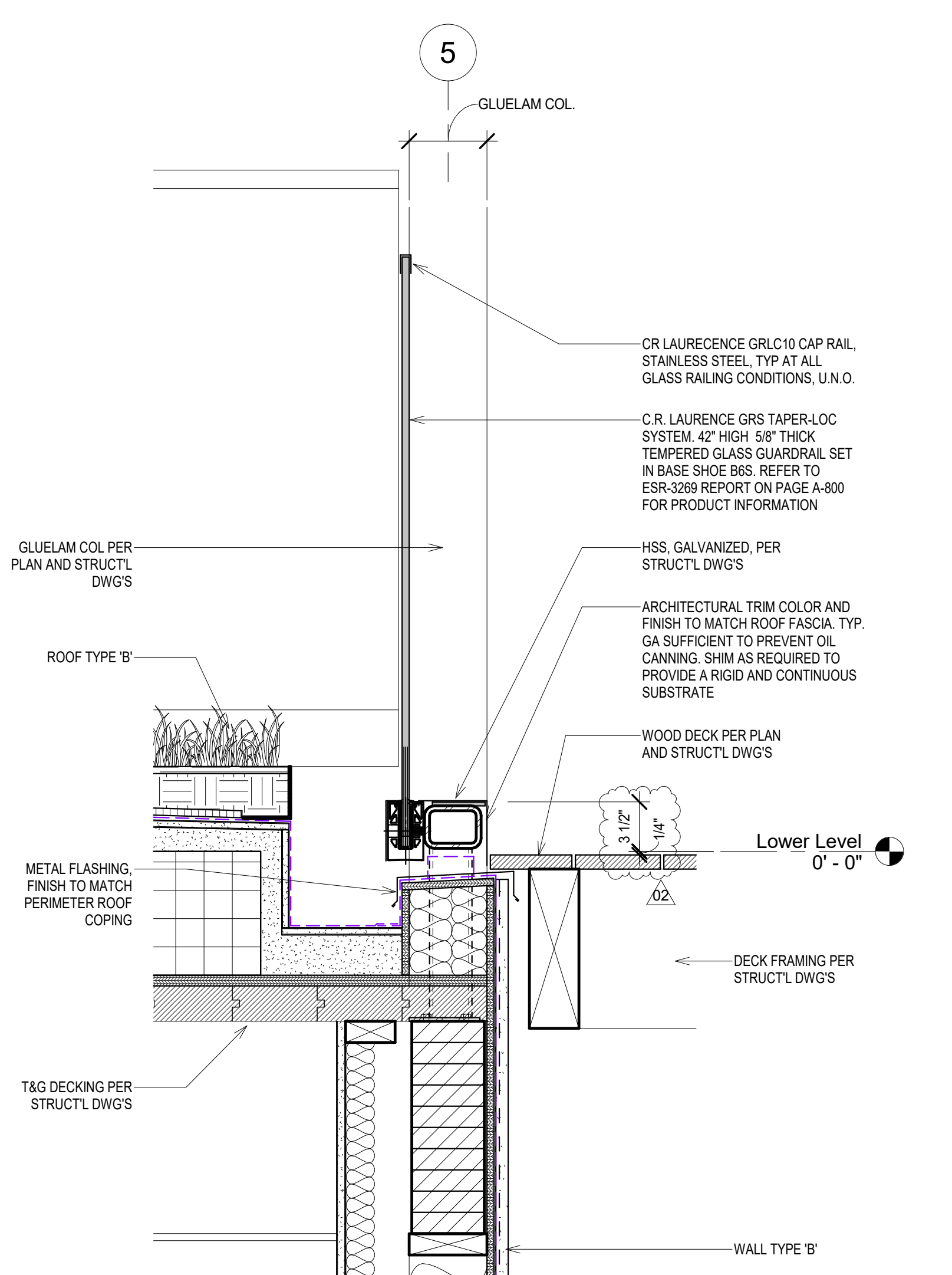
TITLE
Details

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-706-R	As indicated

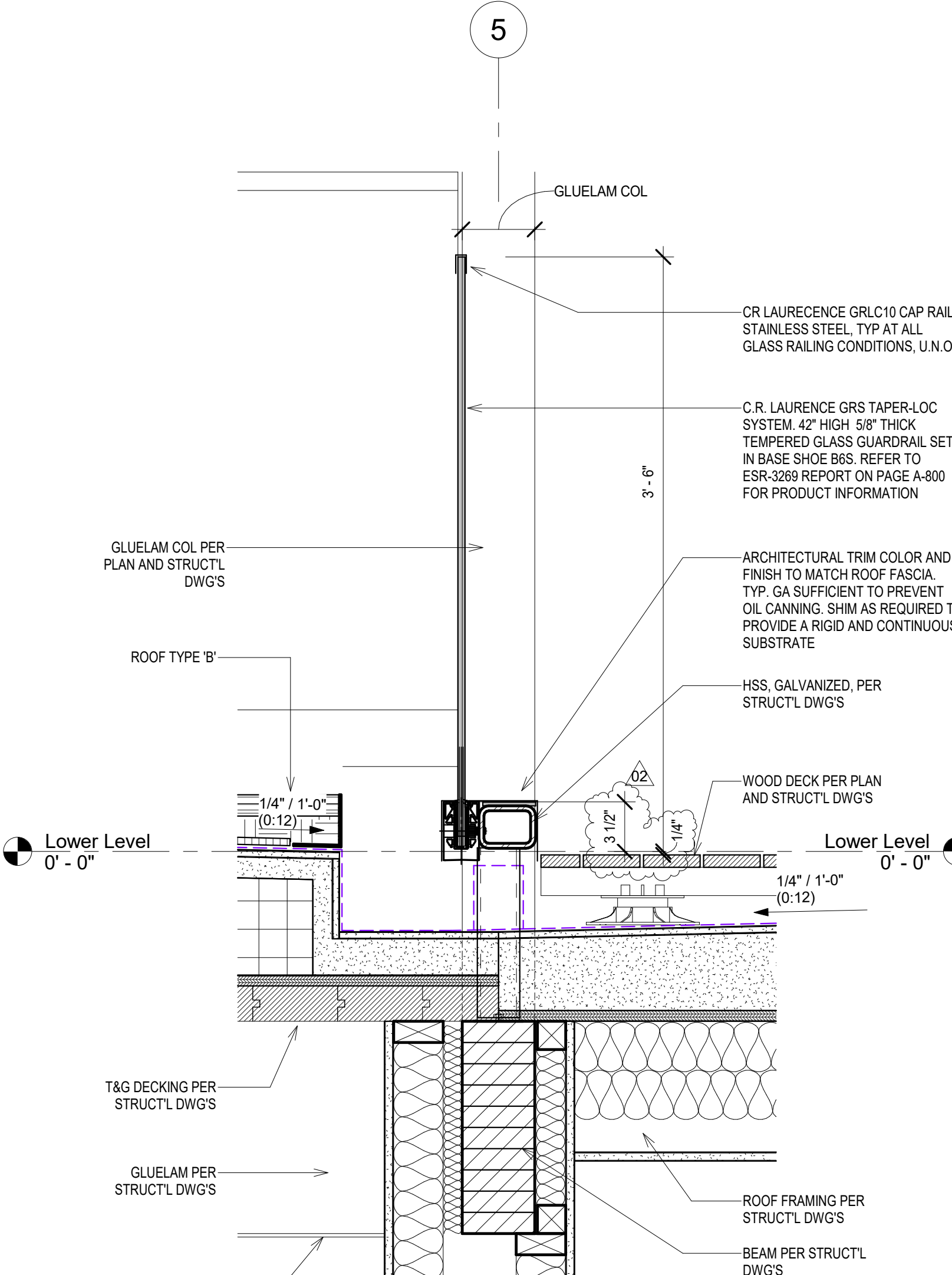
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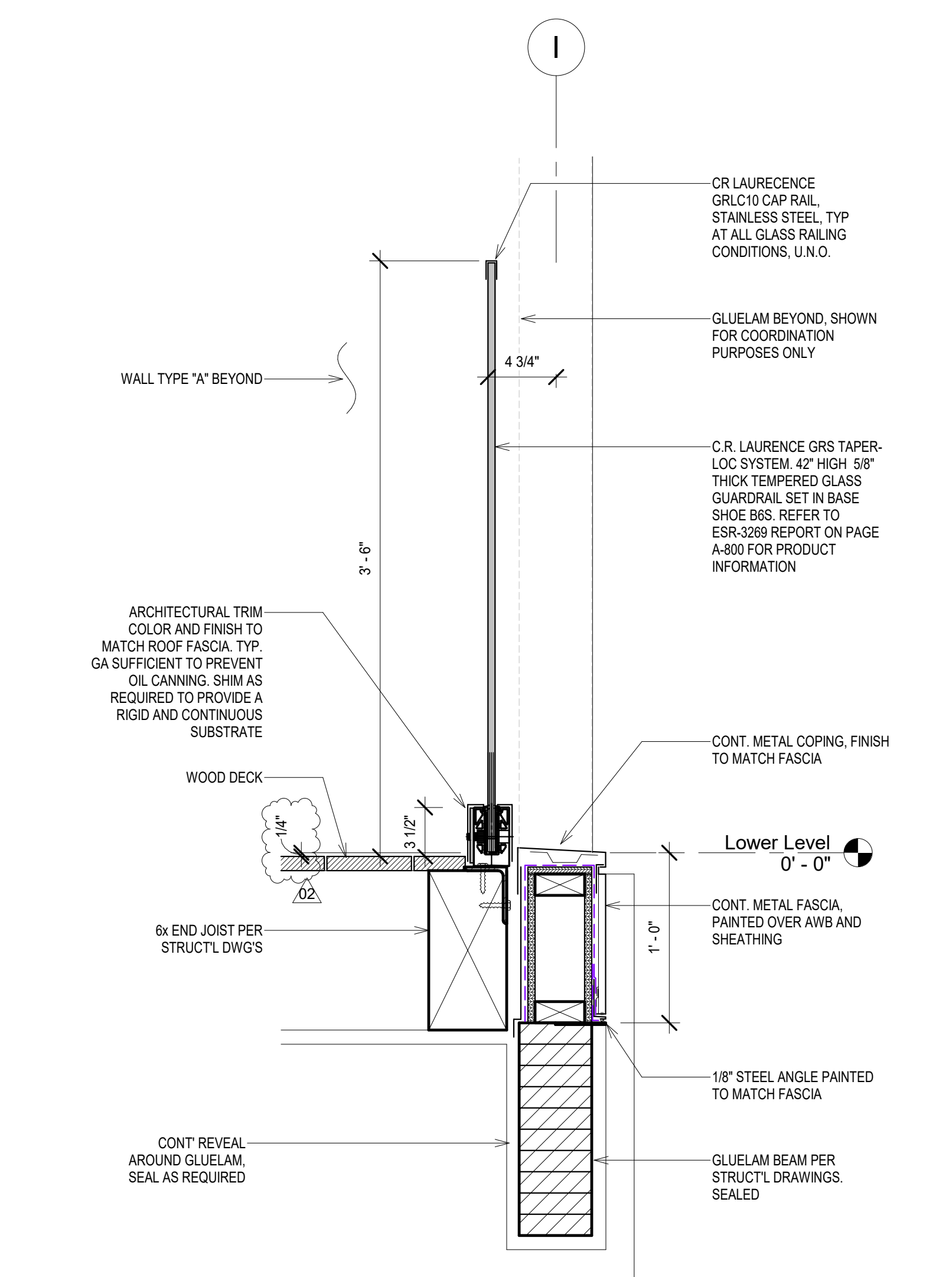
4 Detail Section Lower Level Terrace Handrail 6'H_01
1 1/2" = 1'-0"



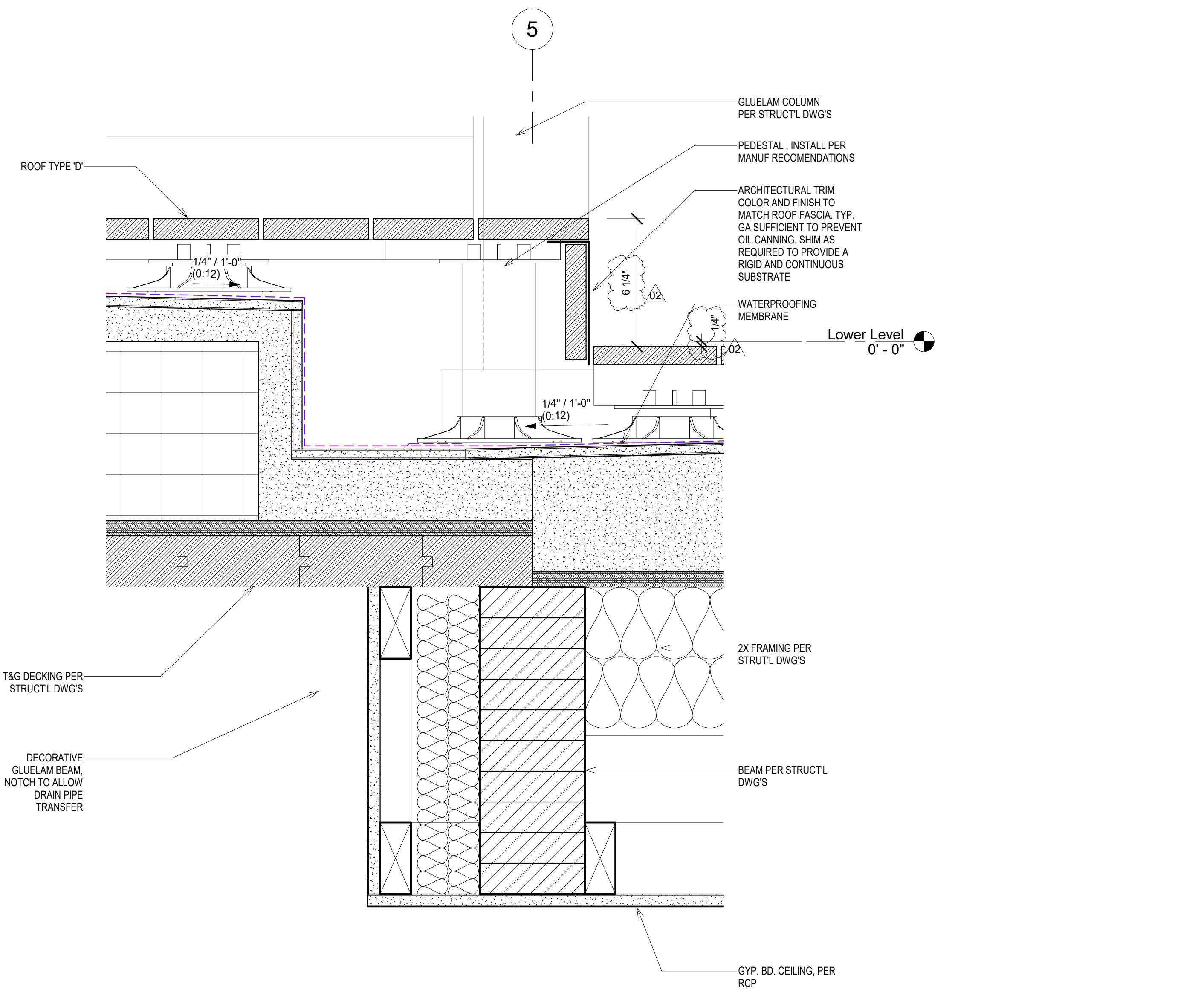
3 Detail Section Lower Level Terrace Handrail 6'H_02
1 1/2" = 1'-0"



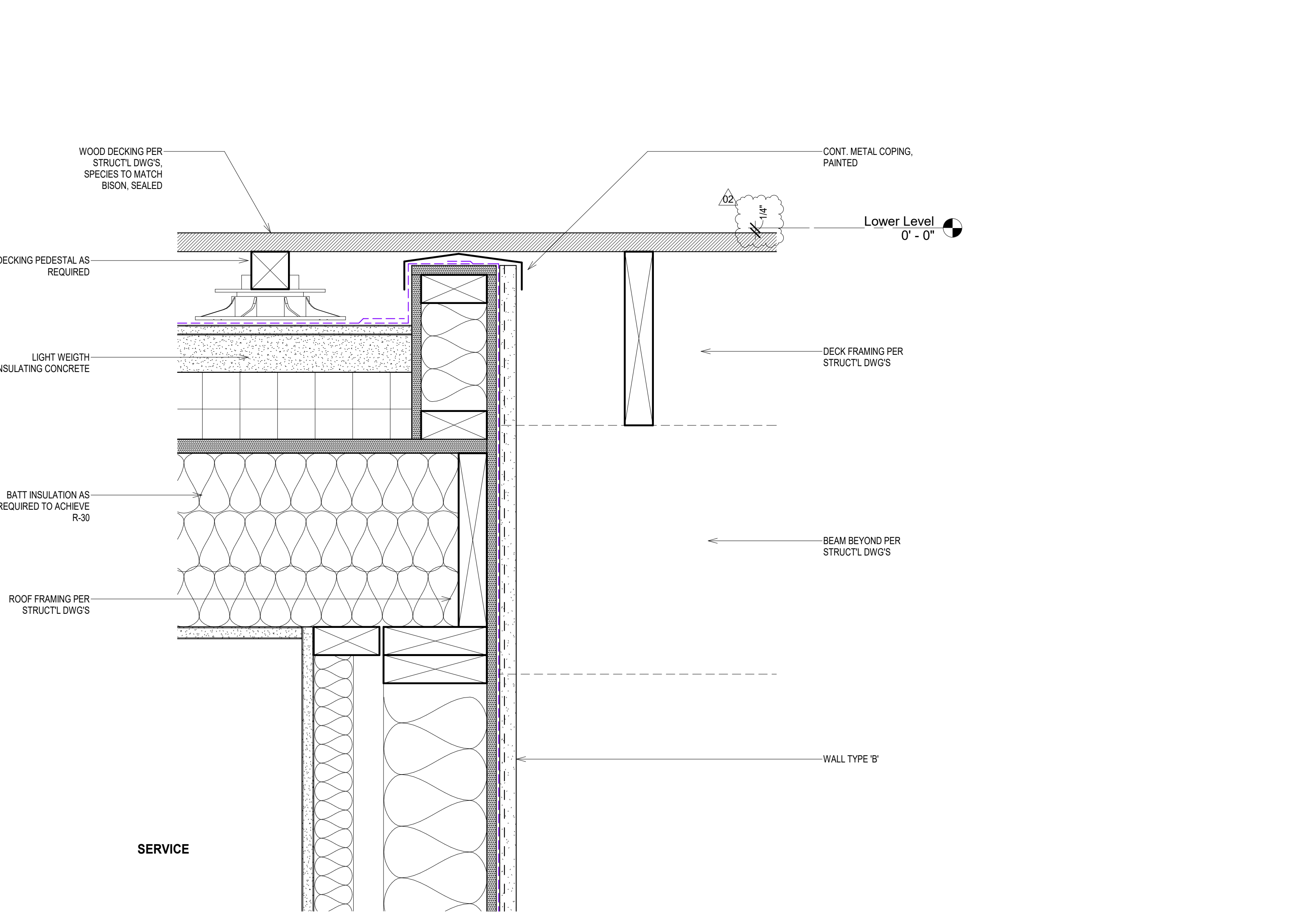
2 Detail Section Lower Level Terrace Handrail 6'H_03
1 1/2" = 1'-0"



1 Detail Section Lower Level Terrace Handrail 6'H_05
1 1/2" = 1'-0"



6 Detail Section Lower Level Terrace Handrail 6'H_04
3" = 1'-0"



5 Detail Section Lower Level Terrace Handrail 6'H_06
3" = 1'-0"

NO	DATE	REASON FOR ISSUE	CHK
02	04/19/24	Bulletin_02	LB
01	08/21/23	Bulletin_01	LB

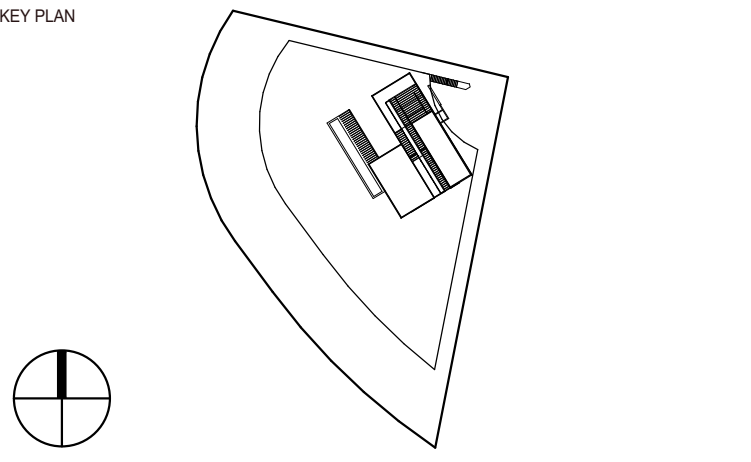
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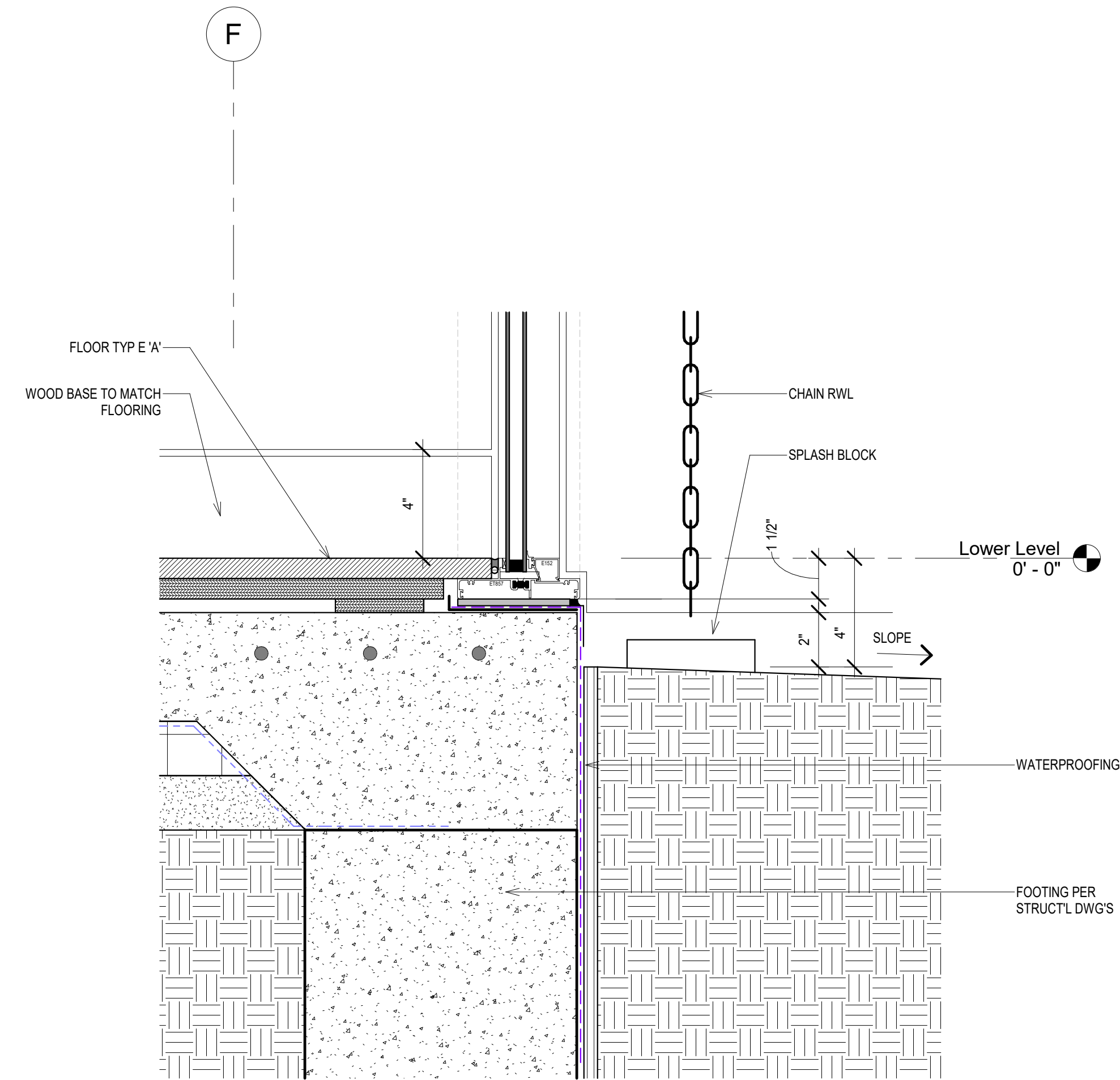
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Patricia Dziuk



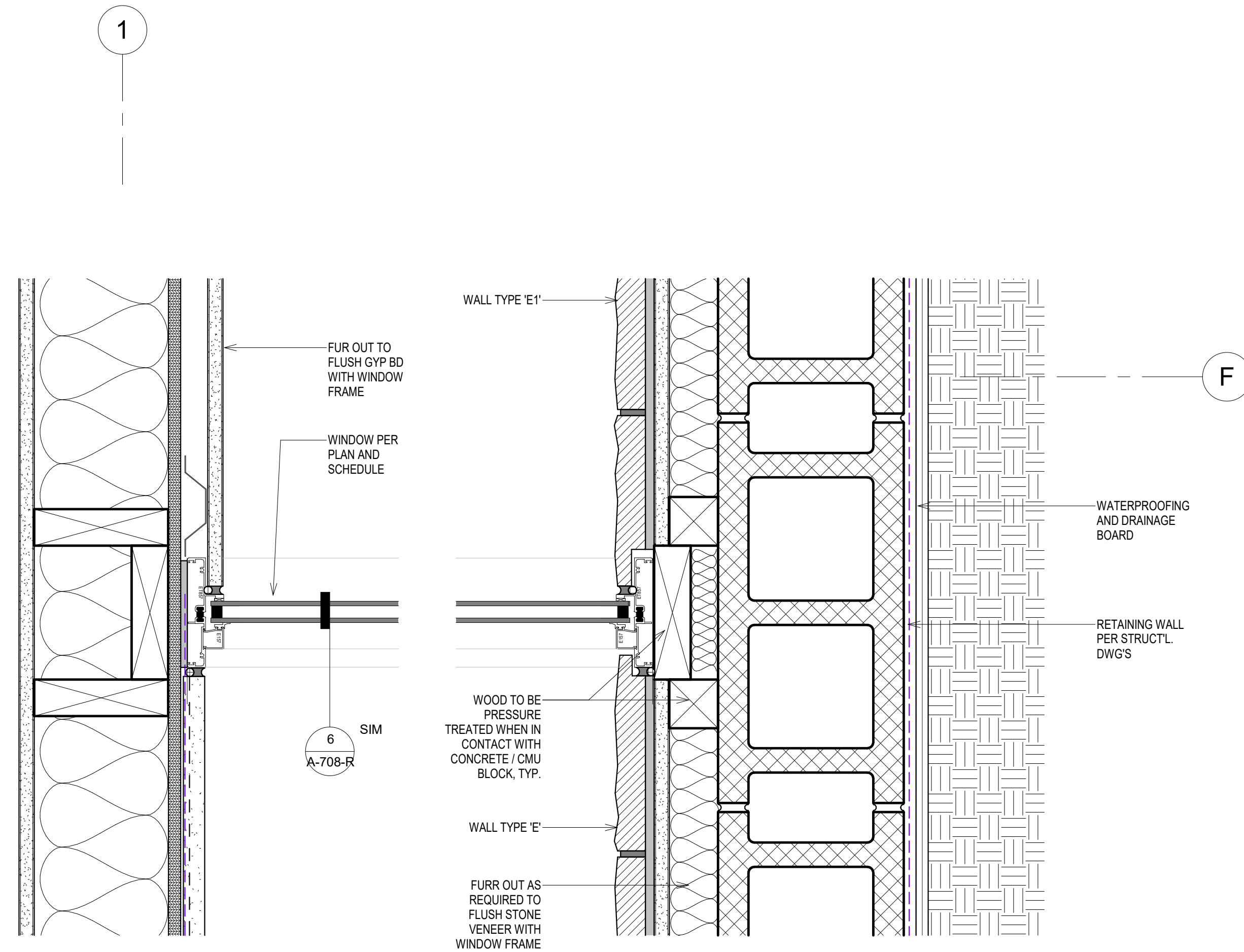
PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Alternate Glass Rail Details

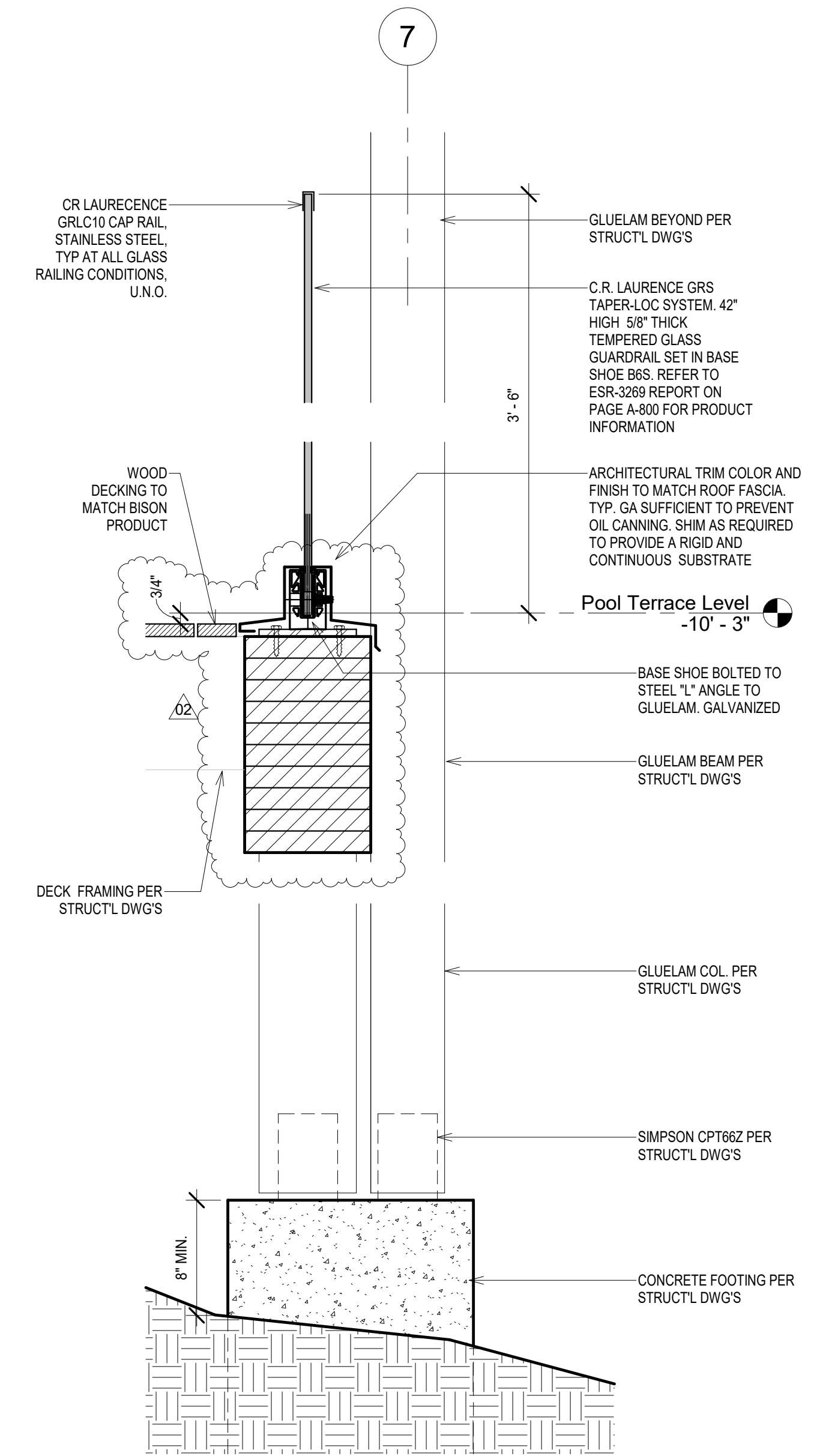
PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-707-R	As indicated



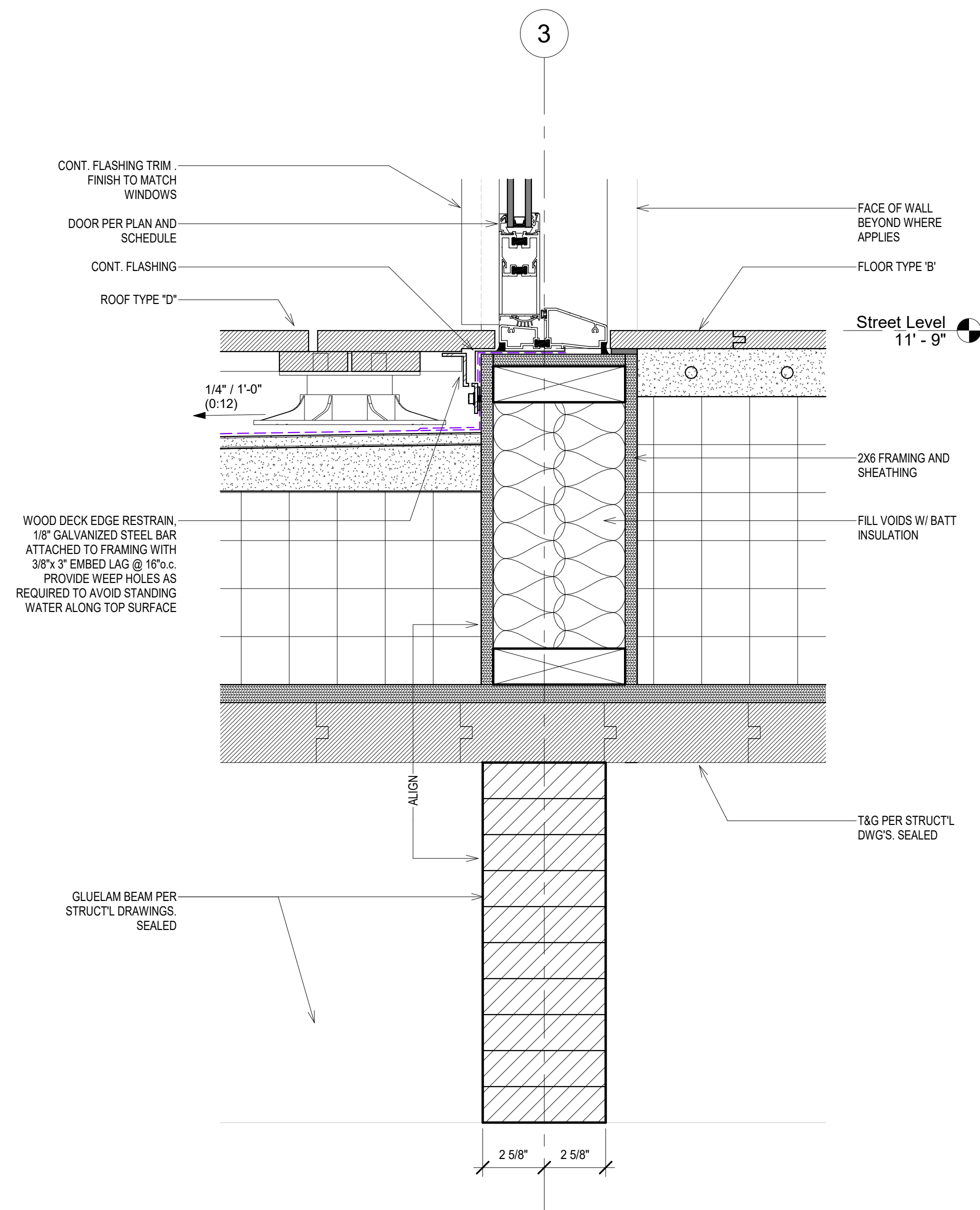
6 Detail Section_Vestibule Window Sill
3" = 1'-0"



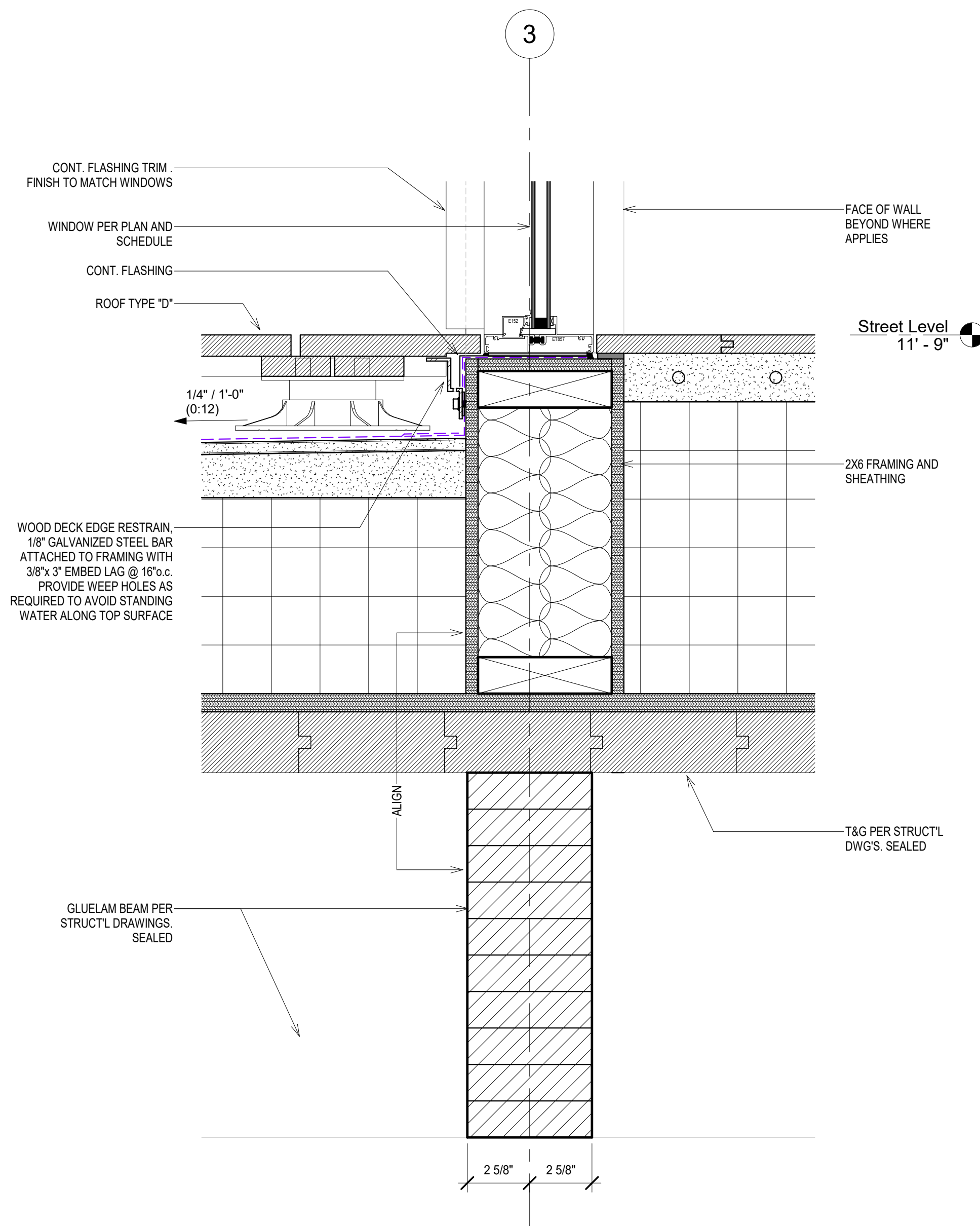
5 Detail Plan_Entrance Window
3" = 1'-0"



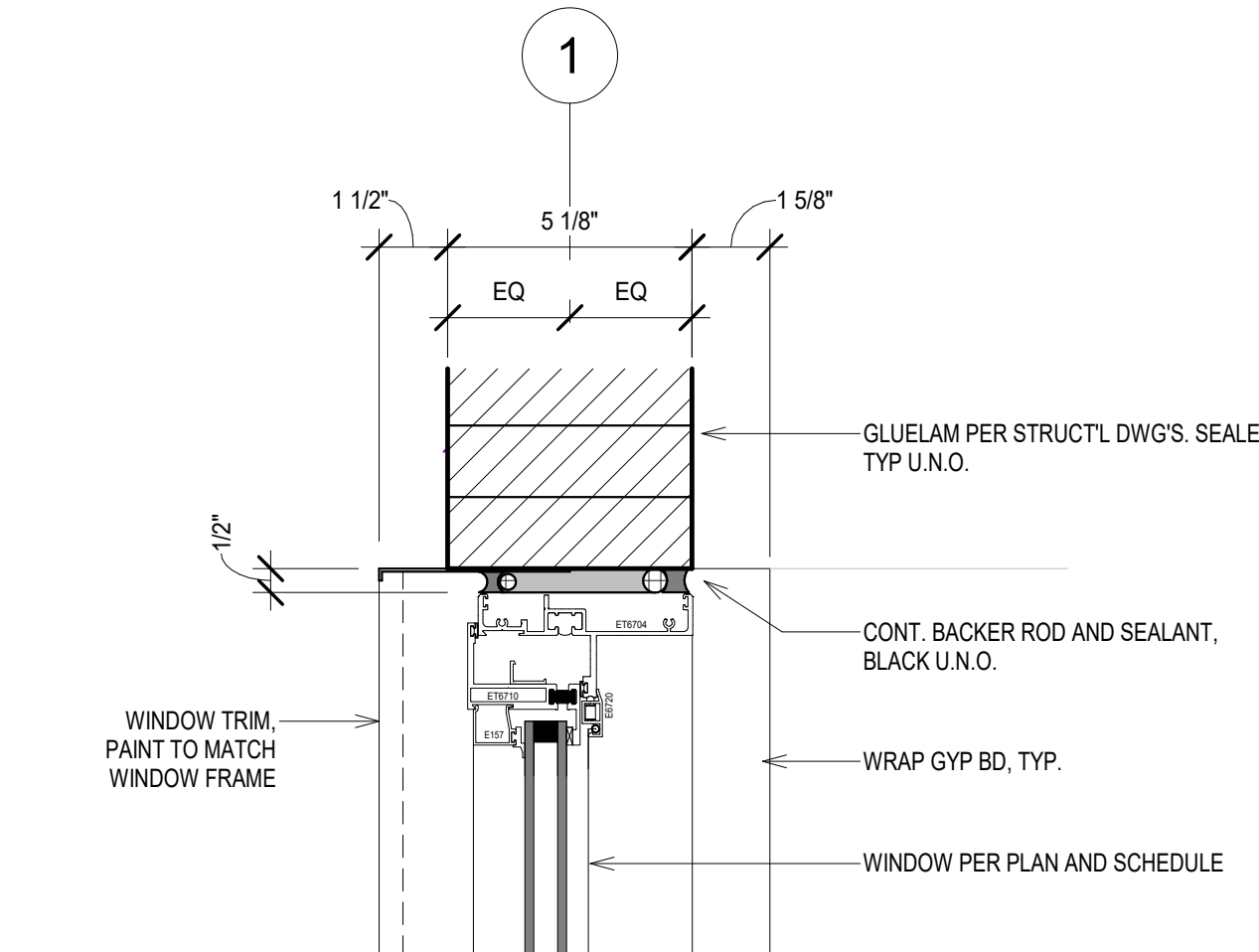
1 Detail Section_Pool Level Guardrail Wood Deck
1 1/2" = 1'-0"



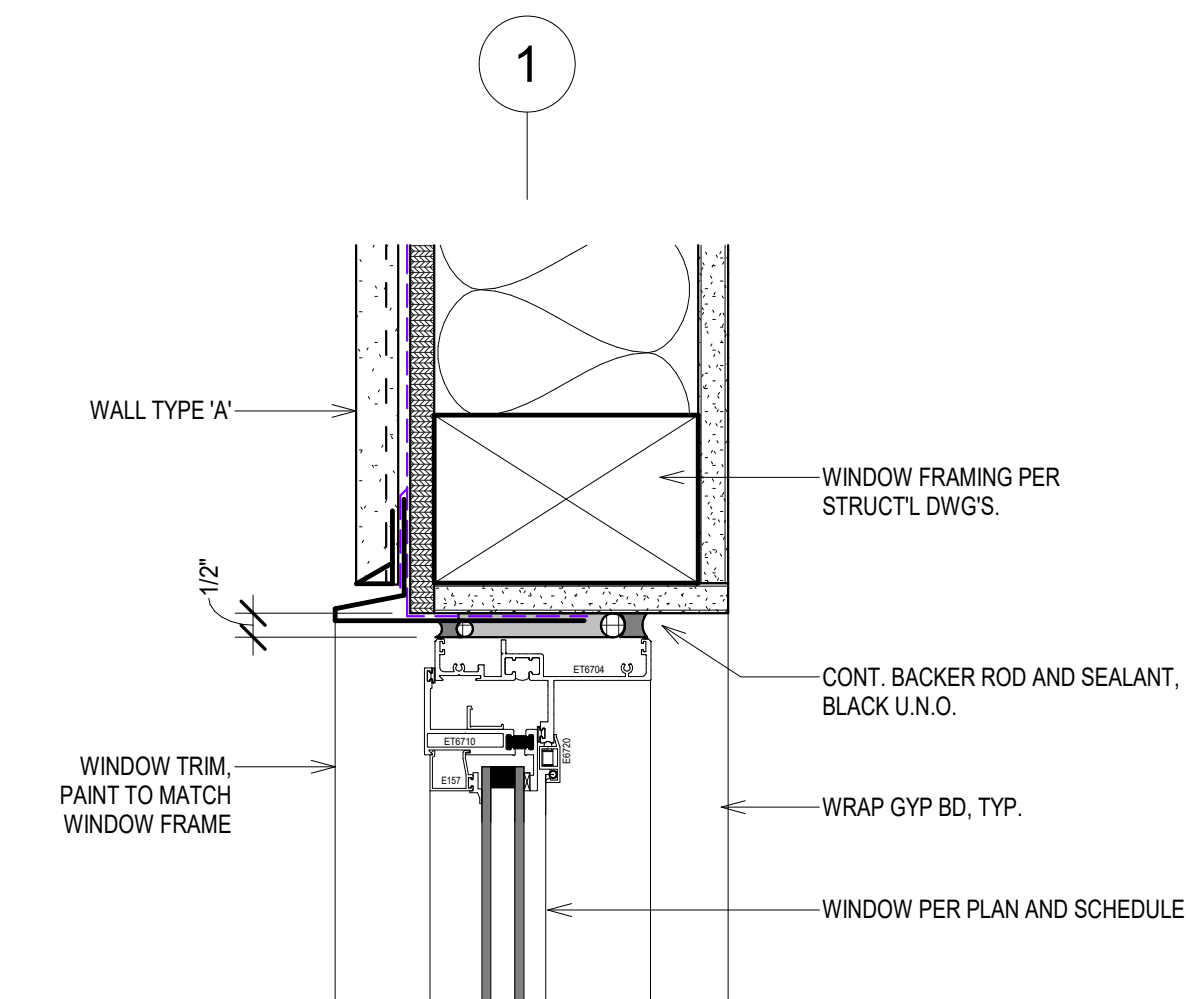
8 Detail Section_Street Level_Sill Swing Door
3" = 1'-0"



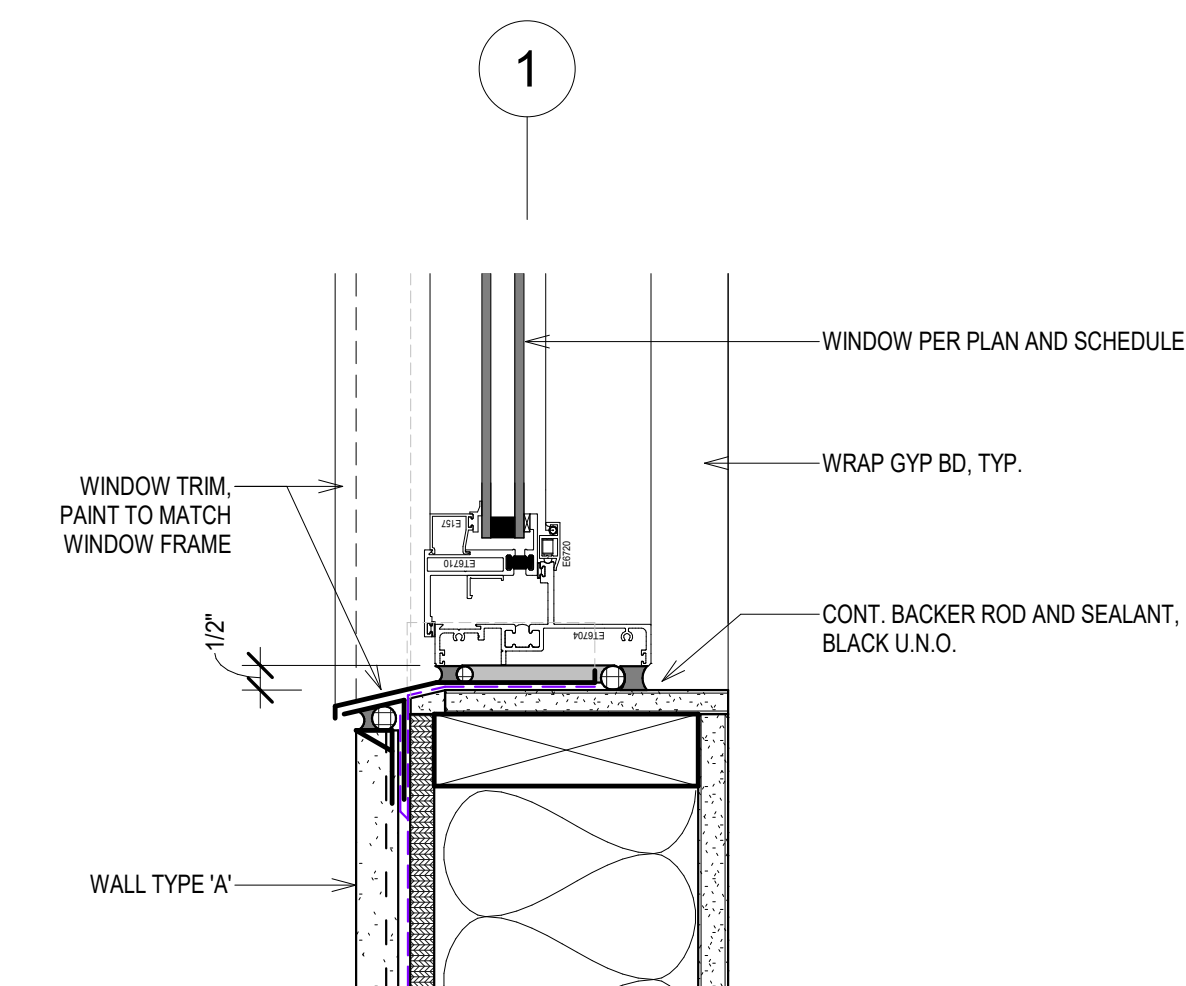
7 Detail Section_Street Level_Sill Fixed
3" = 1'-0"



2 Window Header_Gluelam
3" = 1'-0"



3 Window Header_Typ
3" = 1'-0"



4 Window Sill_Typ
3" = 1'-0"

NO	DATE	REASON FOR ISSUE	CHK
02	04/19/24	Bulletin_02	LB
01	08/21/23	Bulletin_01	LB

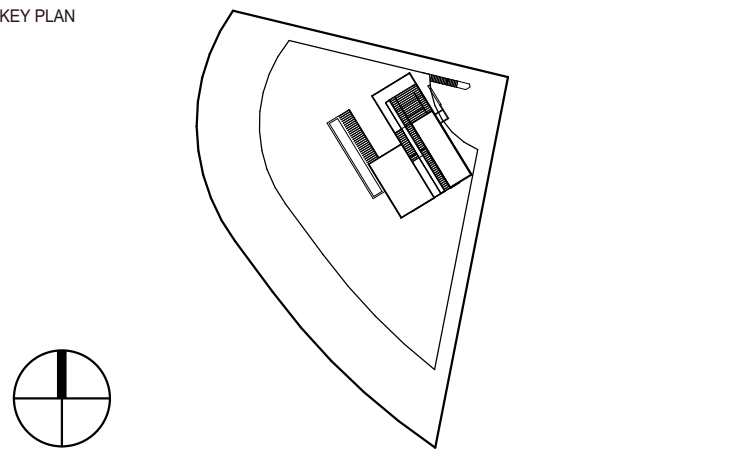
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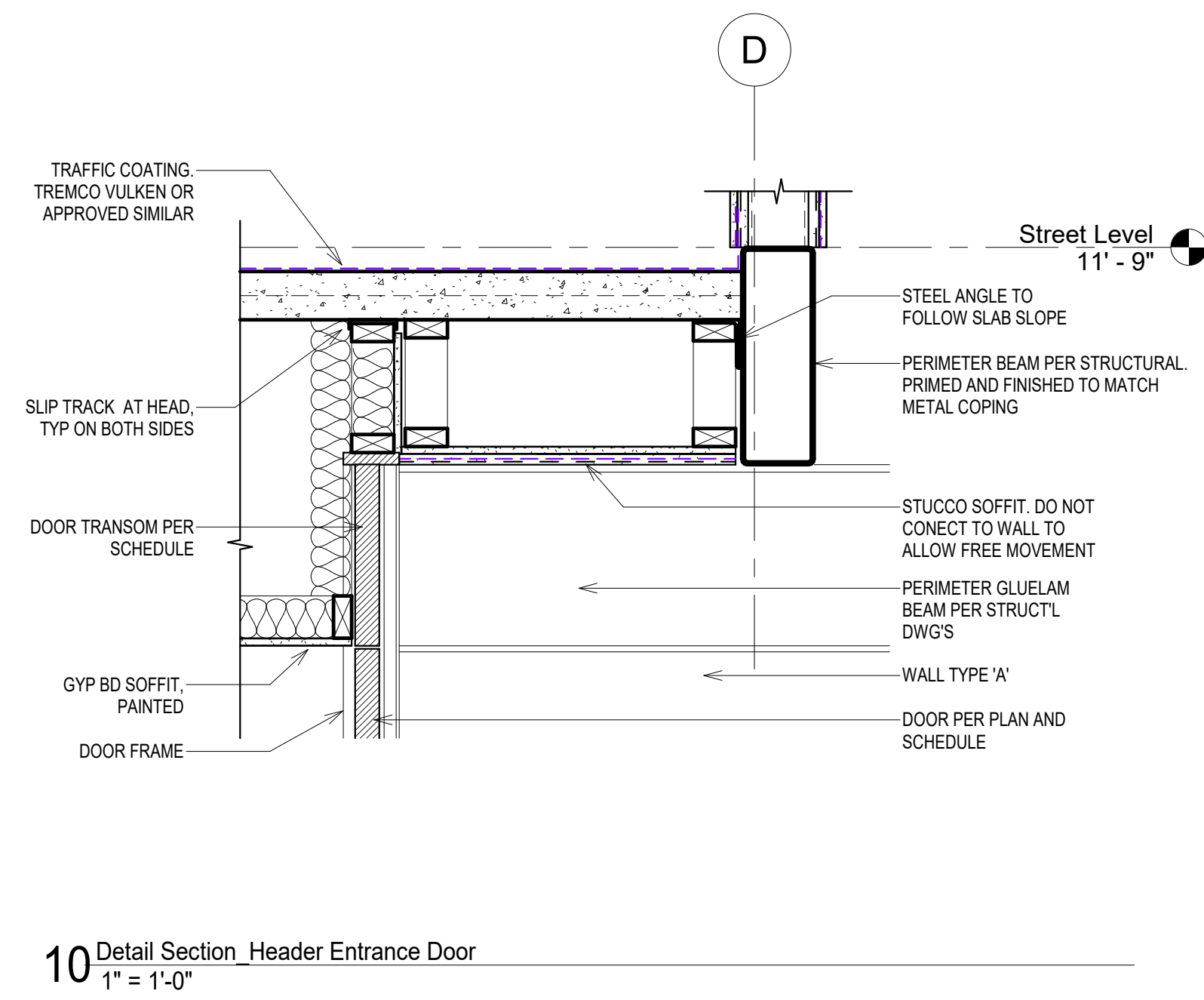
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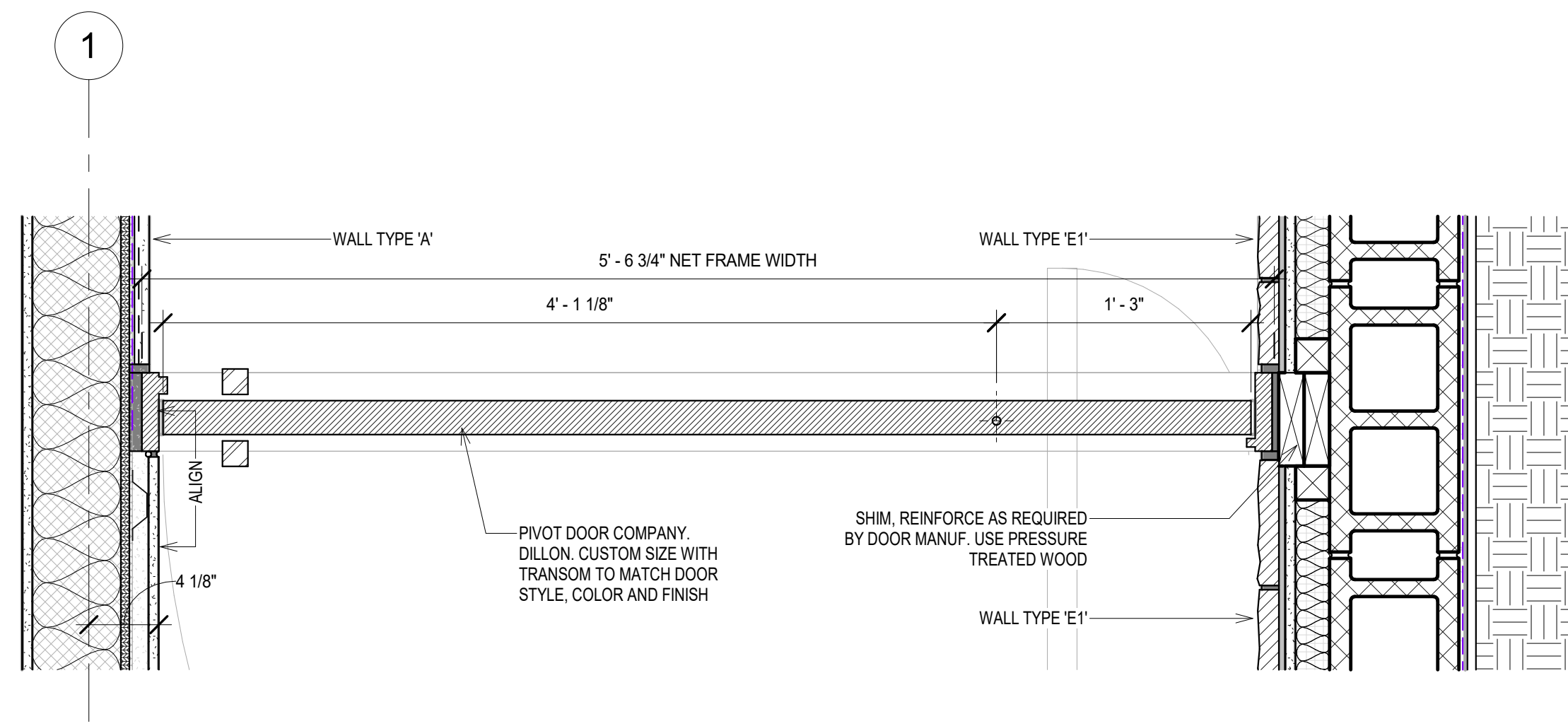
PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Details

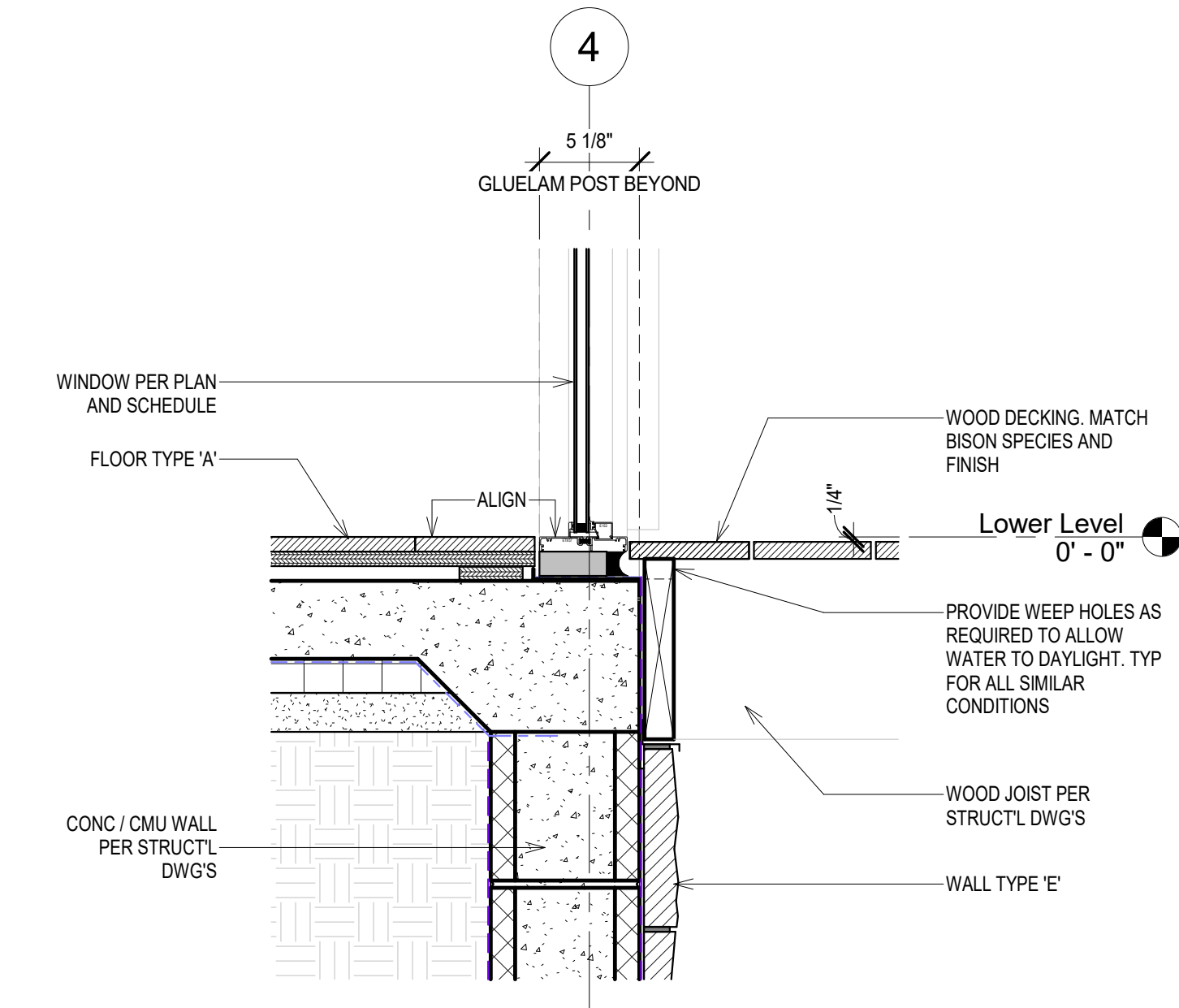
PROJECT NUMBER	DATE	SCALE
DZK-2018-01	11/27/2019	As indicated



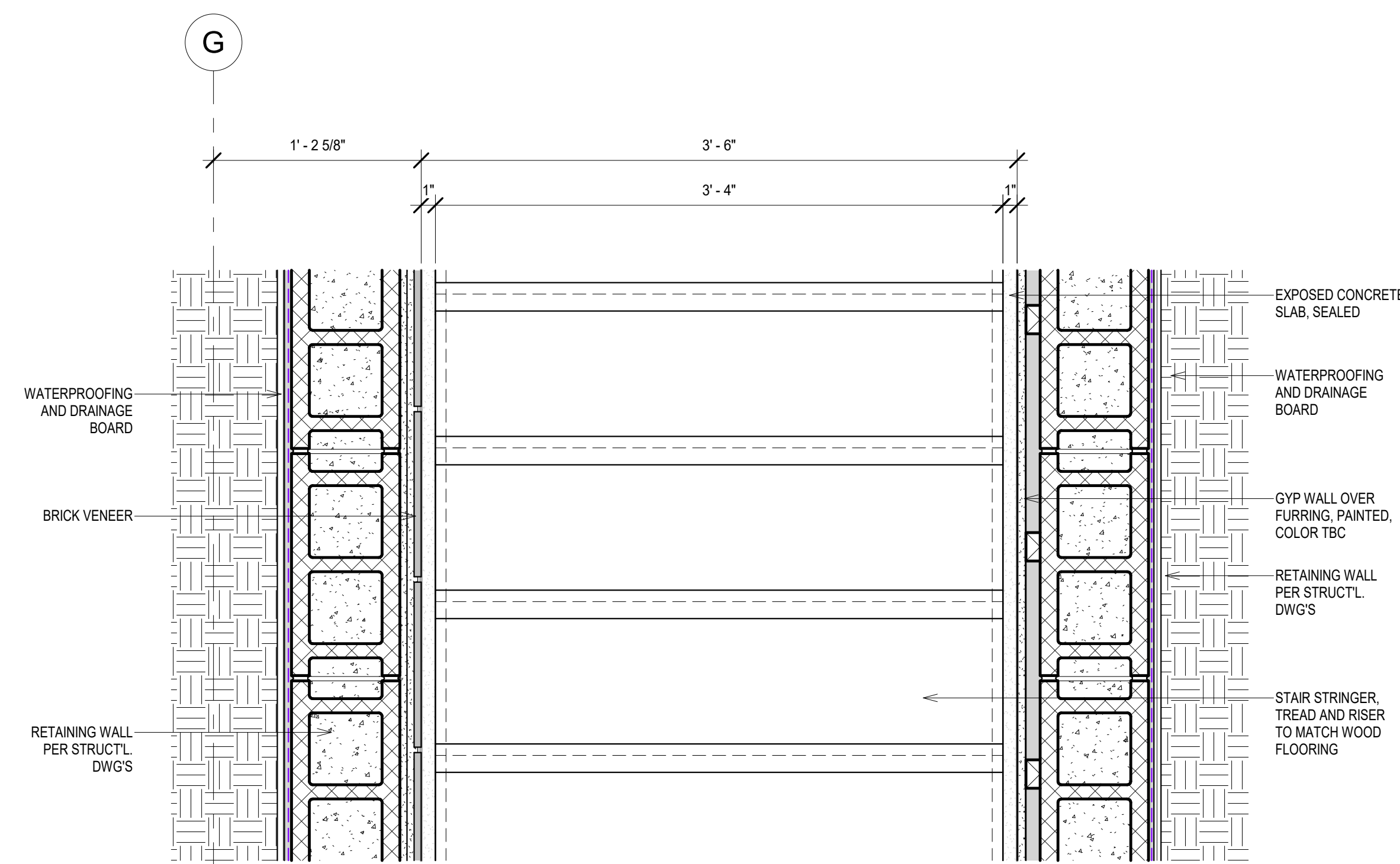
10 Detail Section Header Entrance Door
1" = 1'-0"



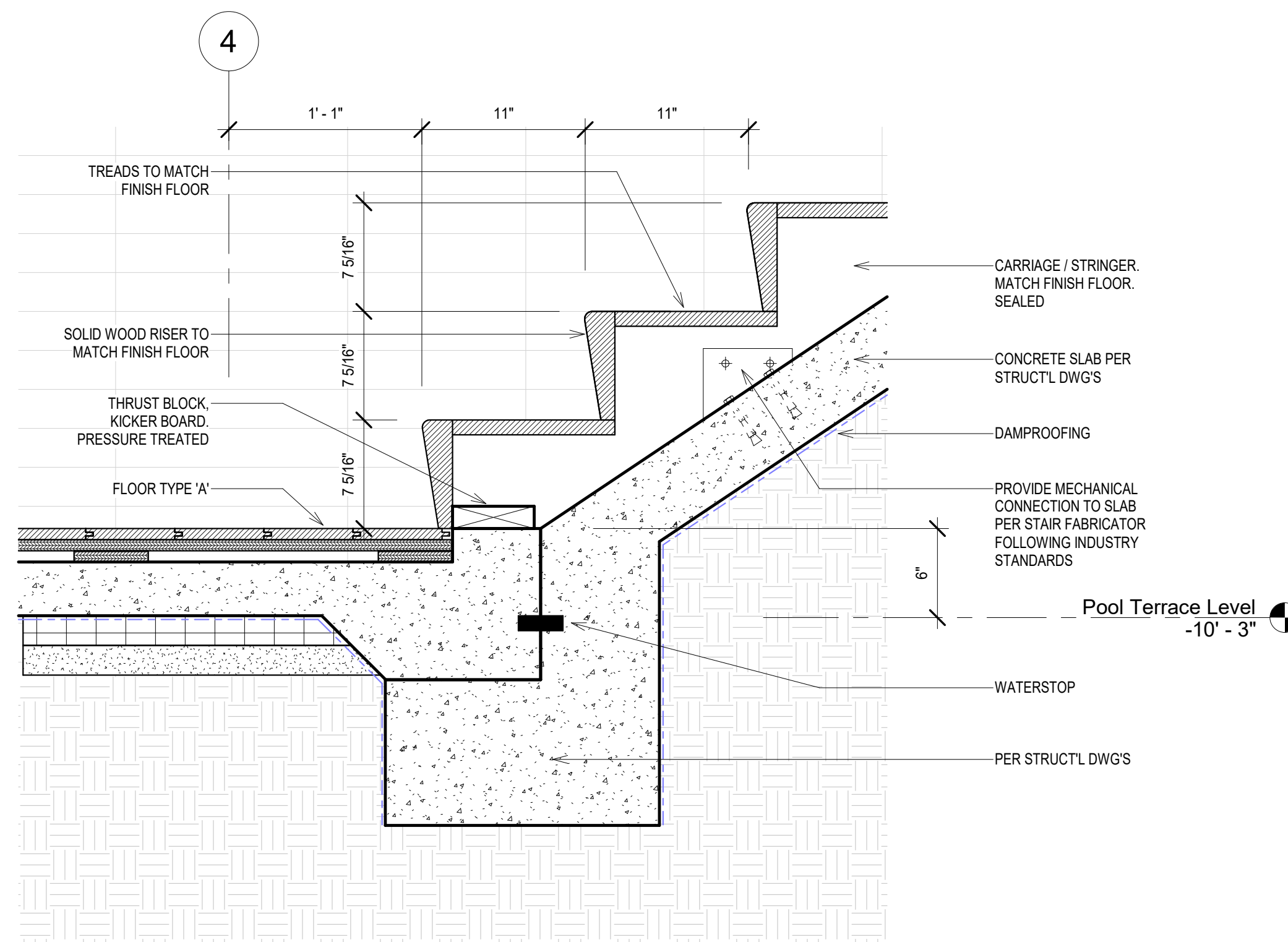
9 Detail Plan Entrance Door
1 1/2" = 1'-0"



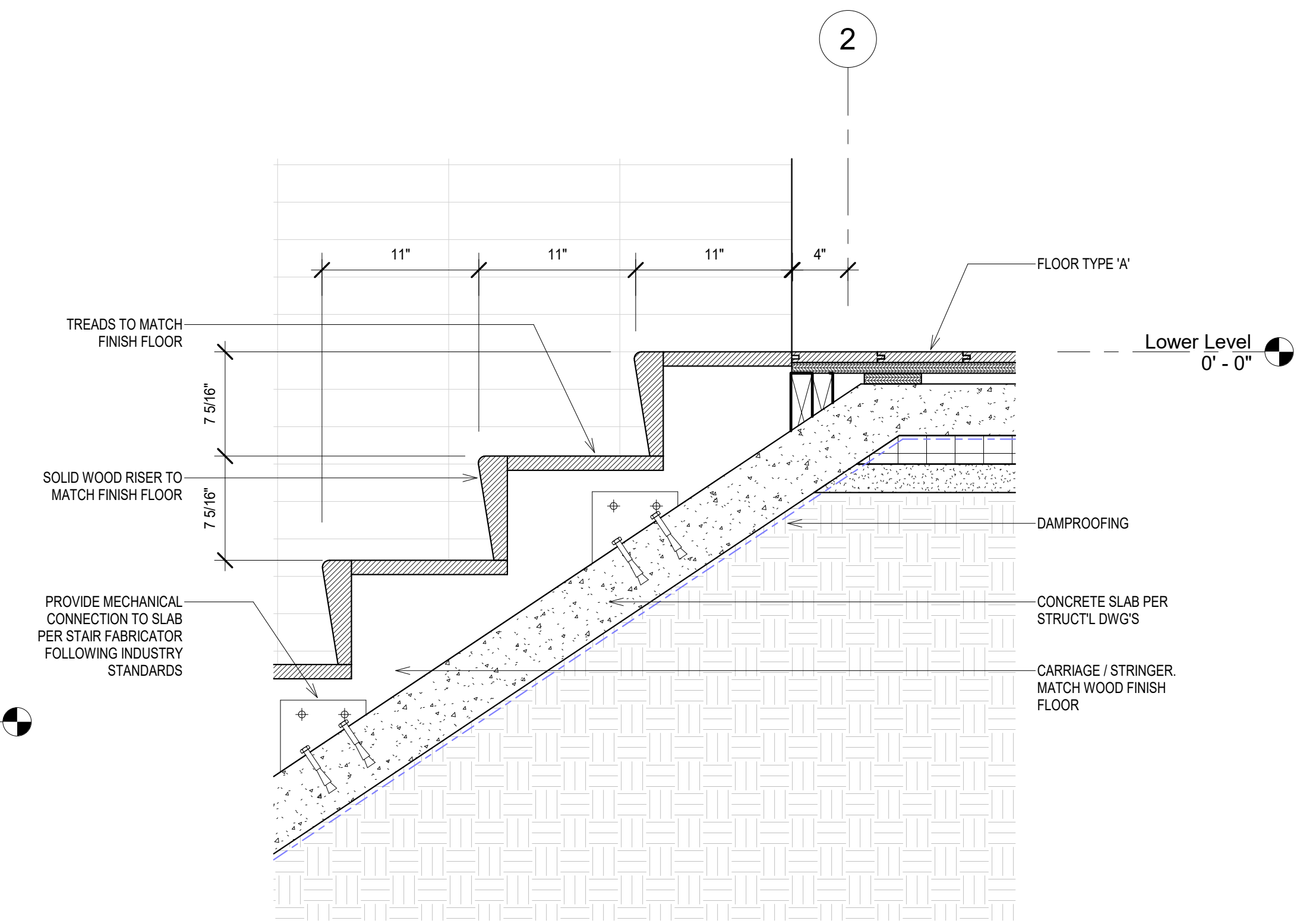
8 Detail Section Lower Level WW 600-Fixed
1 1/2" = 1'-0"



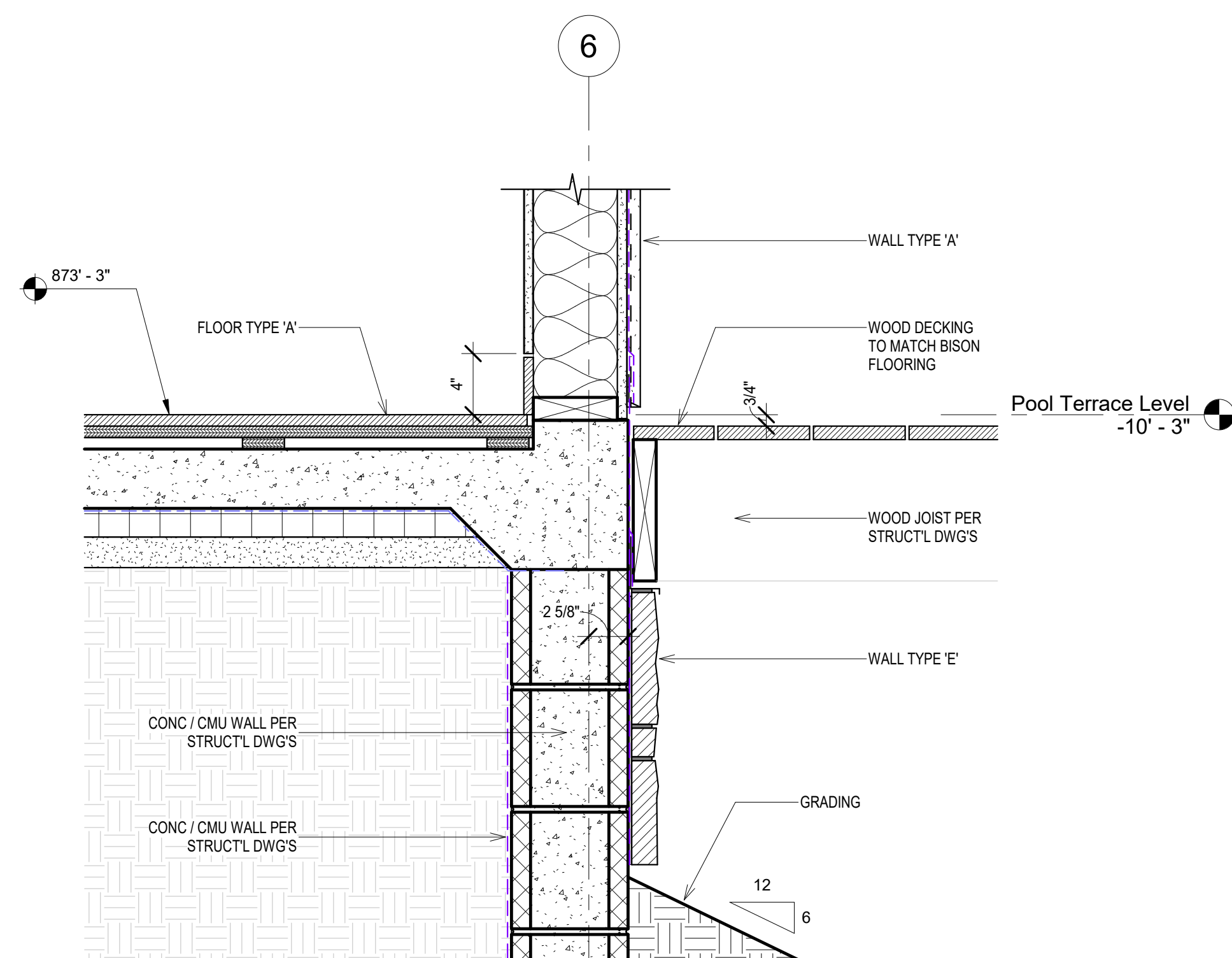
7 Detail Plan PL Stair
1 1/2" = 1'-0"



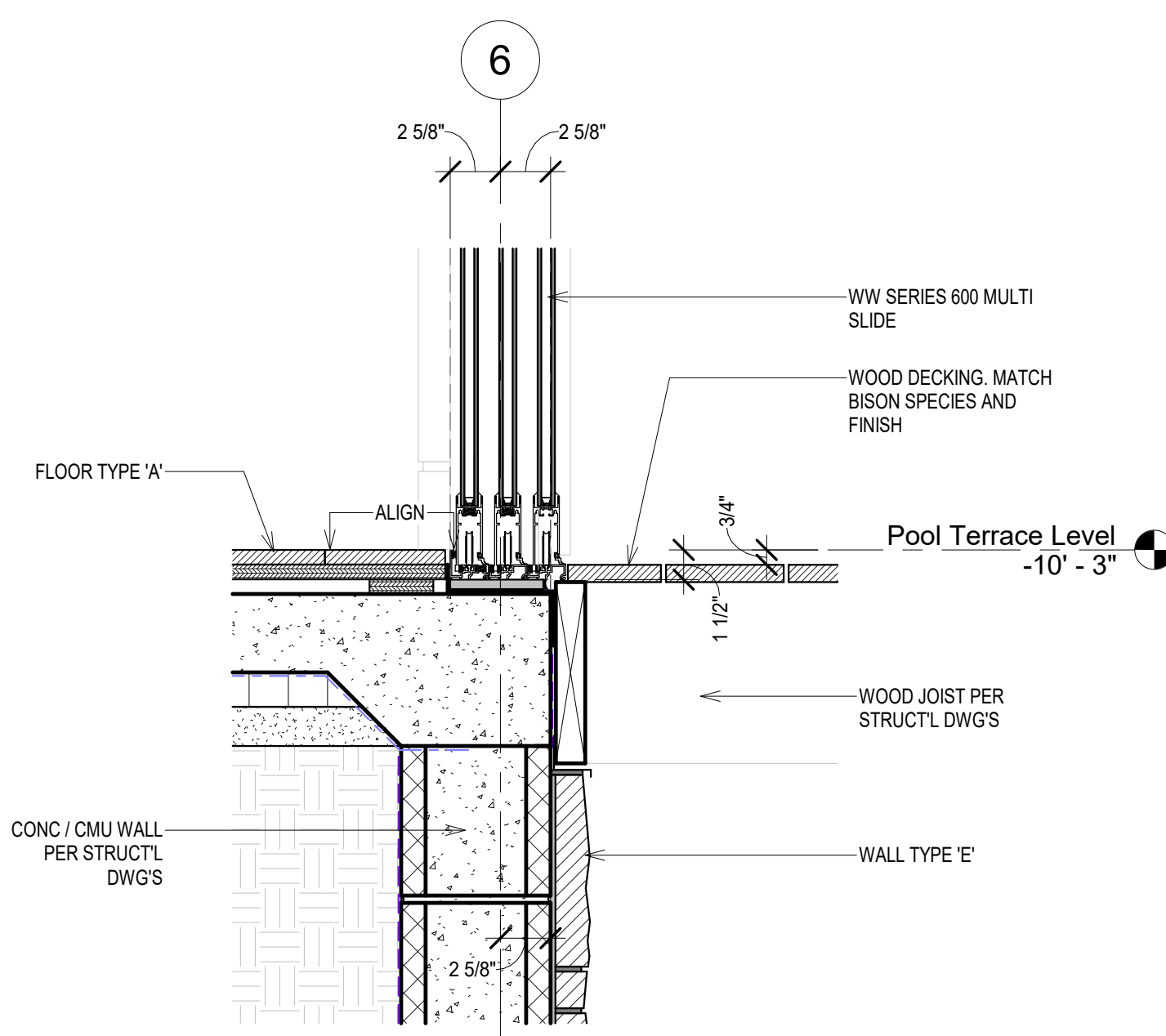
6 Detail Section PL Stair Base
1 1/2" = 1'-0"



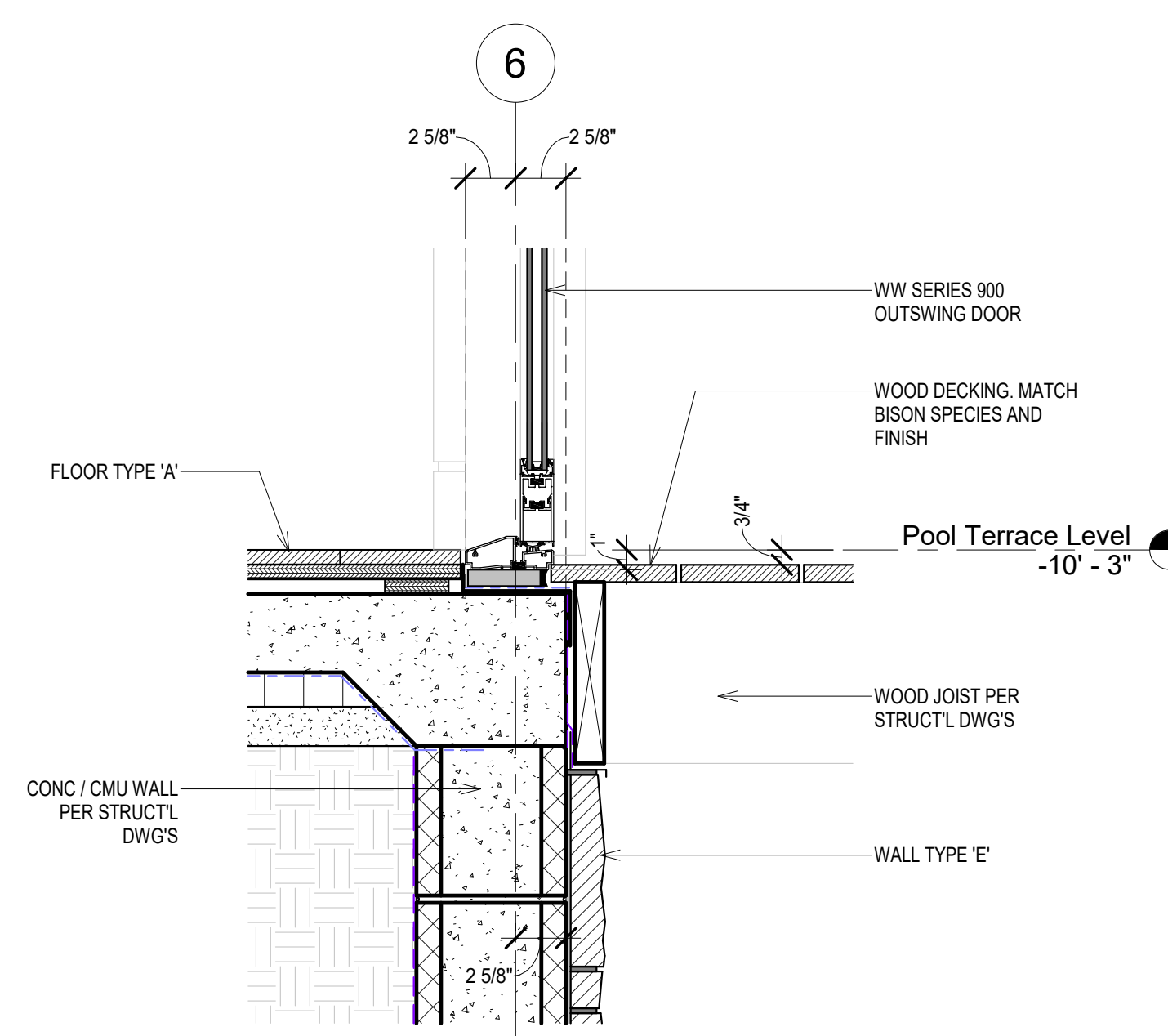
5 Detail Section PL Stair Top
1 1/2" = 1'-0"



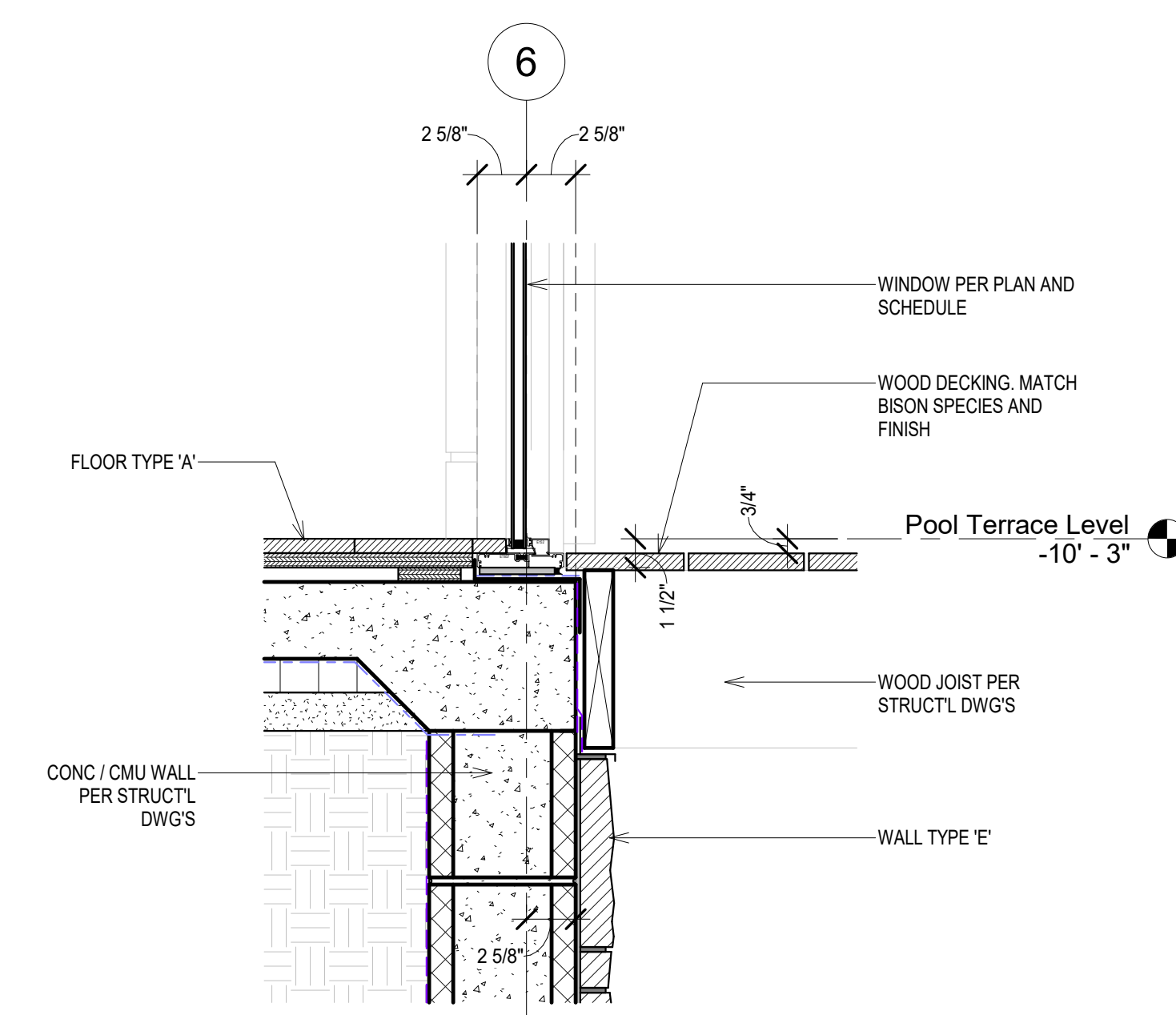
4 Detail Section Pool Level Floor Edge -Deck
1 1/2" = 1'-0"



3 Detail Section WW 600 Pool Level Sill Multislide
1 1/2" = 1'-0"



2 Detail Section WW 600 Pool Level Sill Door
1 1/2" = 1'-0"



1 Detail Section WW 600 Pool Level Sill Fixed
1 1/2" = 1'-0"

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01	04/19/24	Bulletin_02	LB
NO	DATE	REASON FOR ISSUE	CHK

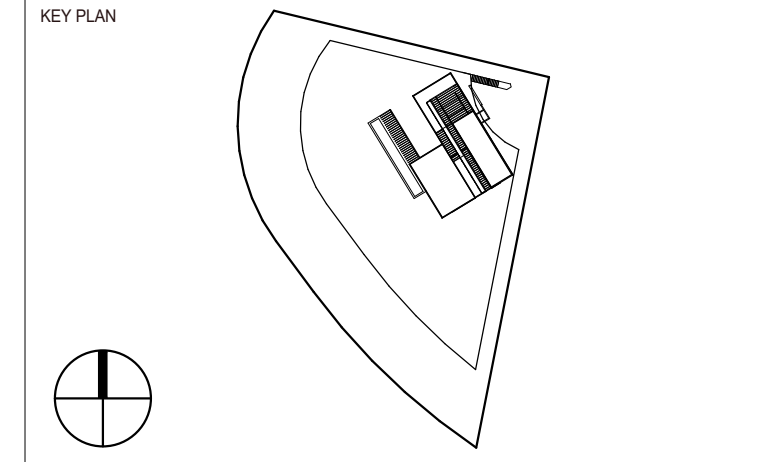
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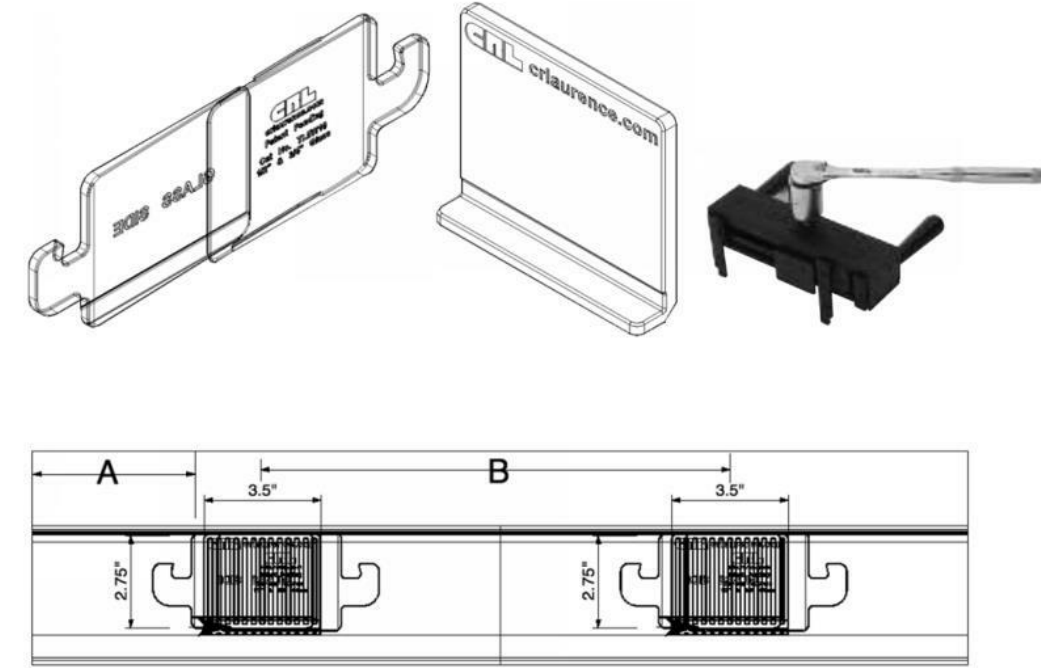
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Patricia Dziuk



PROJECT
Infinity Residence
 4403 Alta Mira Drive
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TITLE
Details

PROJECT	DATE
DZK-2018-01	11/27/2019
SCALE	As indicated



For 1/2-inch Fully Tempered Glass maximum glass light height = 42inches
 Edge Distance: 3/8inches ± 0.01inches; 9.5 mm ± 0.25 mm
 Center to center spacing: 7inches ± 0.16inches; 178 mm ± 4.0 mm

Panel Width/Required quantity of Tapcon[®] Plates:
 36inches to 42inches (915 to 1067 mm) 1 TL Plate
 42inches to 48inches (1067 to 1219 mm) 2 TL Plates
 48inches to 54inches (1219 to 1372 mm) 3 TL Plates
 54inches to 60inches (1372 to 1524 mm) 4 TL Plates
 60inches to 66inches (1524 to 1677 mm) 5 TL Plates
 66inches to 72inches (1677 to 1830 mm) 6 TL Plates
 72inches to 78inches (1830 to 1983 mm) 7 TL Plates
 78inches to 84inches (1983 to 2136 mm) 8 TL Plates
 84inches to 90inches (2136 to 2289 mm) 9 TL Plates

Adjustments to spacing:
 1. For glass light heights over 42inches A_{min} and B_{min} must be reduced proportionally.
 $A_{min} = 8" - (A/2h)$
 $B_{min} = 8" - (B/2h)$
 $h =$ glass height

2. For glass light heights under 42inches A_{max} and B_{max} must not be increased.
 3. A_{min} and B_{min} are for ease of installation and can be further reduced as long as proper installation is achieved.

4. For glass thickness greater than 1/2" A_{min} and B_{min} may be increased as follows:
 1/2-inch Glass
 Edge Distance: 3/8inches ± 0.01inches
 Center to center spacing: 7" ± 0.16inches

3/4-inch Glass
 Edge Distance: 3/8inches ± 0.01inches
 Center to center spacing: 7" ± 0.16inches
 For 3/4" 1 inch = 25.4 mm

FIGURE 9—TAPER-LOC[®] SHOE SETTING PLATE

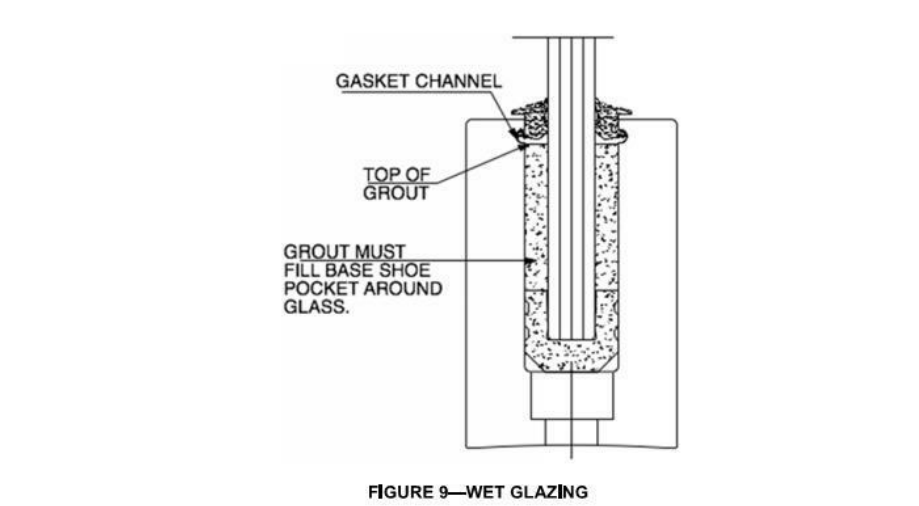


FIGURE 10—WET GLAZING

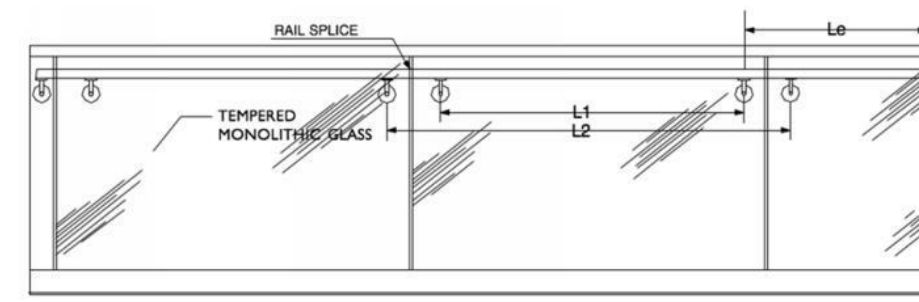


FIGURE 11—TOP RAIL SUPPORT OPTIONS

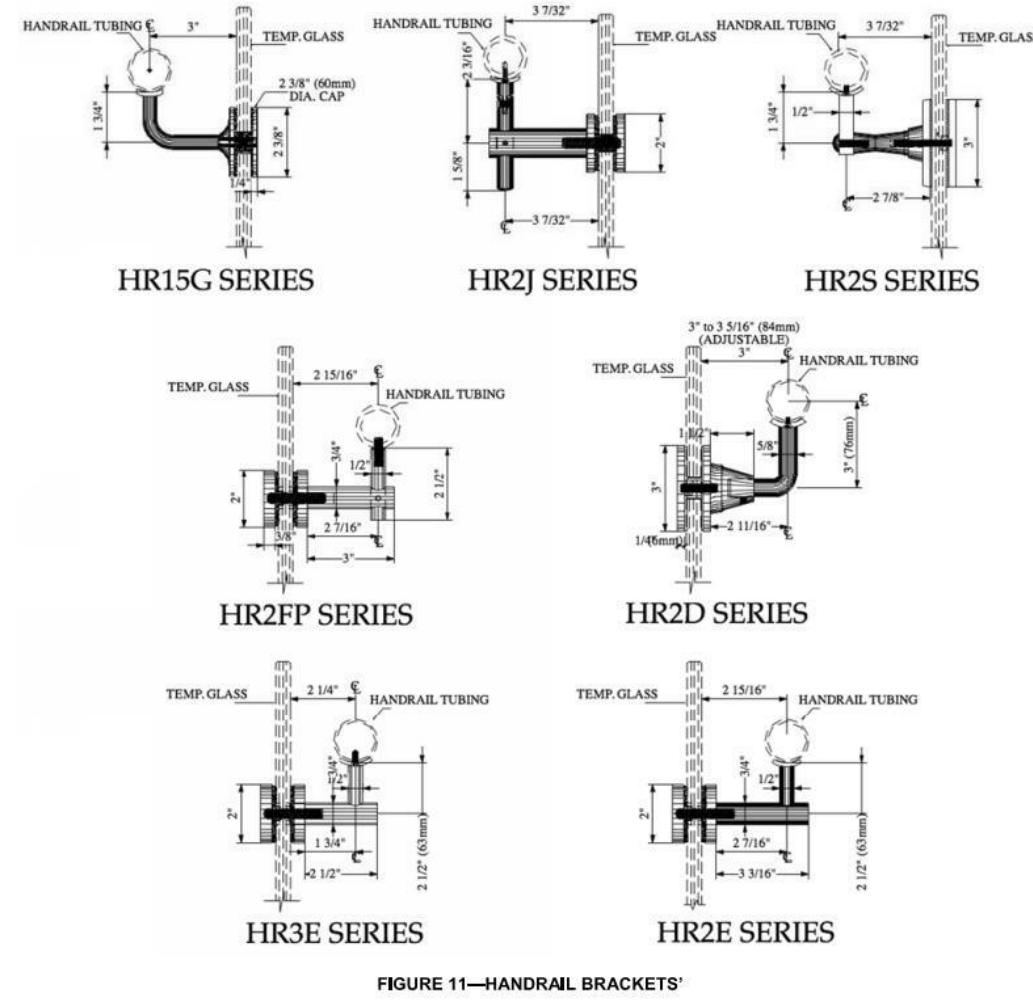


FIGURE 12—HANDRAIL BRACKETS

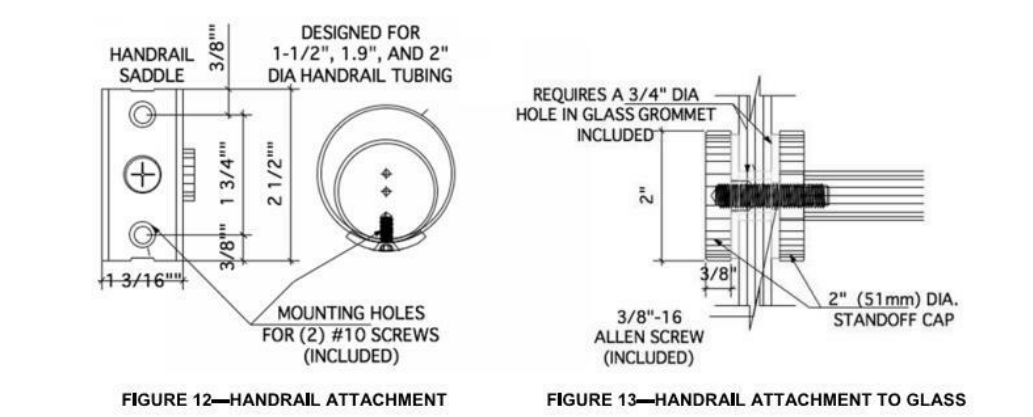


FIGURE 13—HANDRAIL ATTACHMENT TO GLASS

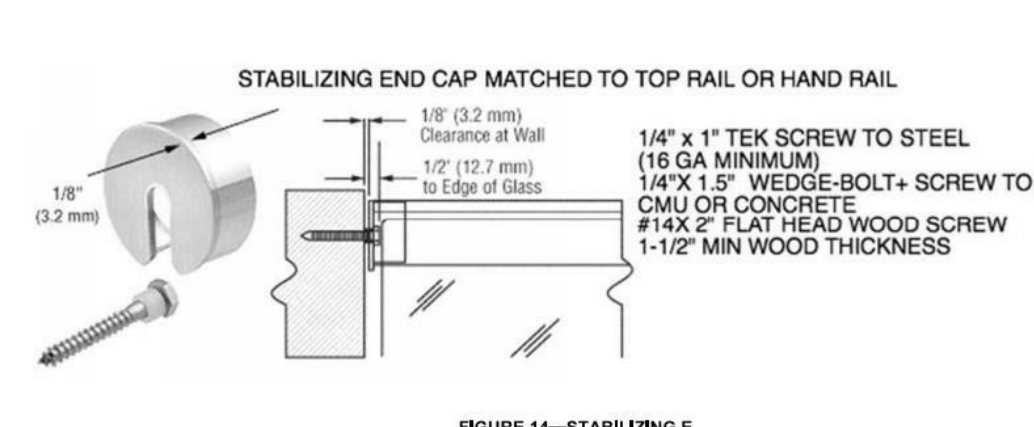


FIGURE 14—STABILIZING END CAP

This product has not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.
 The products recognized in this supplement have not been evaluated for compliance with the International Wildland-Urban Interface Code.
 This supplement expires concurrently with the evaluation report, reissued November 2019 and revised April 2020.

ICC-ES Evaluation Report ESR-3269 CBC and CRC Supplement
 Issued November 2019
 Revised April 2020
 This report is subject to renewal November 2020.
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DIVISION: 05 00 00—METALS
 Section: 05 22 00—Metal Railings
 Section: 05 73 15—Decorative Metal Railings
 DIVISION: 08 00 00—OPENINGS
 Section: 08 81 00—Glass Glazing
 Section: 08 88 00—Special Function Glazing
 DIVISION: 32 00 00—EXTERIOR IMPROVEMENTS
 Section: 32 35 00—Screening Devices

REPORT HOLDER:
 C.R. LAURENCE COMPANY, INC.

EVALUATION SUBJECT:
 GRS[®] GLASS BALUSTRADE GUARD SYSTEM FOR MONOLITHIC TEMPERED GLASS APPLICATIONS

1.0 REPORT PURPOSE AND SCOPE

Purpose:
 The purpose of this evaluation report supplement is to indicate that the GRS[®] Glass Balustrade Guard System for Monolithic Tempered Glass Applications, described in Sections 2.0 through 7.0 of the evaluation report ESR-3269, complies with CBC Chapters 10 and 24, provided the design and installation are in accordance with the 2015 International Building Code[®] (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 10, 19 and 24, as applicable.
 The products have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

Applicable code editions:
 ■ 2016 California Building Code[®] (CBC)
 ■ 2016 California Residential Code[®] (CRC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

2.0 CONCLUSIONS

2.1 CBC:
 The GRS[®] Glass Balustrade Guard System for Monolithic Tempered Glass Applications, described in Sections 2.0 through 7.0 of the evaluation report ESR-3269, complies with CBC Chapters 10 and 24, provided the design and installation are in accordance with the 2015 International Building Code[®] (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 10, 19 and 24, as applicable.

The products have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.1.1 OSHPD:
 The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:
 The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:
 The GRS[®] Glass Balustrade Guard System for Monolithic Tempered Glass Applications, described in Sections 2.0 through 7.0 of the evaluation report ESR-3269, complies with CRC Chapter 3, provided the design and installation are in accordance with the 2015 International Residential Code[®] (IRC) provisions noted in the evaluation report.

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 Patricia Dziuk

KEY PLAN

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PROJECT
 Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
 Glass Balustrade ESR-3269 Report
 (Cont.)

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-800.1	

Wood Deck System Roof Assembly 'D'

BEAUTY, LONGEVITY, AND EXCEPTIONAL VALUE

BISON WOOD TILES

Bison Wood Tiles offer the design flexibility to create versatile, unique outdoor spaces. Commercial grade, responsibly harvested, hardwood tiles are weather resistant and available in standard and FSC® Certified (BCC-COC-002585) species.

- Species include Bamboo, Cumaru, Garapa, Ipé, Mahogany, and Massaranduba
- Exclusive Bison FS-1 Fastening Kit & Continuous Kerf Cut Design allows for easy tile attachment, removal, and replacement.
- Modular sizes 2" x 2", 2" x 4", 4" x 2", 4" x 4", 6" x 2", 6" x 4", 8" x 2", and 30" x 30"
- Fastenables to be spaced on a 2" grid for all Bison Wood Tile sizes*
- Custom sizes available.
- Full System Warranty available when installed with Bison Pedestals.
- May be covered by one or more patents.
- Bison Wood Tile Systems can meet:
 - ASTM E1081/1074 Class A Spread of Flame
 - ASTM C1028-07 Slip Resistance
 - ASTM D4309-95 Wood Ipple
 - Seismic Design Categories DCC1, A-F

*Bison 2" x 2" 30" Wood Tile installed over 3/4" gird.

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Bison Ipé Wood Tiles

Model: WT-IPÉ-24-SMOOTH
WT-IPÉ-30X30-SMOOTH

Species: Ipé
Surface: Smooth
Color: Brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,480 lbs.
Dimensions: 23.875" x 23.875" x 1.69"
Weight: 24 lbs.
Weight PSF: 6 PSF
Bison Continuous Kerf cut design

Model: WT-IPÉ-24-SMOOTH
WT-IPÉ-30X30-SMOOTH

Species: Ipé
Surface: Smooth or Ribbed
Color: Brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,480 lbs.
Dimensions: 23.875" x 23.875" x 1.69"
Weight: 24 lbs.
Weight PSF: 6 PSF
Bison Continuous Kerf cut design

*The colors may differ than pictured and change without notice.

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Bison Cumaru Wood Tiles

Model: WT-CUMARU-24

Species: Cumaru
Surface: Smooth
Color: Golden brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,540 lbs.
Dimensions: 23.875" x 23.875" x 1.69"
Weight: 24 lbs.
Weight PSF: 6 PSF
Bison Continuous Kerf cut design

Model: WT-CUMARU-48

Species: Cumaru
Surface: Smooth or Ribbed
Color: Golden brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,540 lbs.
Dimensions: 47.9375" x 23.875" x 1.69"
Weight: 48 lbs.
Weight PSF: 6 PSF
Bison Continuous Kerf cut design

*The colors may differ than pictured and change without notice.

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Bison FSC® Ipé Wood Tiles

Model: WTFSC-100%IPÉ-24

Species: Ipé
Surface: Smooth
Color: Brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,480 lbs.
Dimensions: 23.875" x 23.875" x 1.69"
Weight: 24 lbs.
Weight PSF: 6 PSF
Bison Continuous Kerf cut design

Model: WTFSC-100%IPÉ-48

Species: Ipé
Surface: Smooth or Ribbed
Color: Brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,480 lbs.
Dimensions: 47.9375" x 23.875" x 1.69"
Weight: 48 lbs.
Weight PSF: 6 PSF
Bison Continuous Kerf cut design

*The colors may differ than pictured and change without notice.

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Bison FSC® Cumaru Wood Tiles

Model: WTFSC-100%CUMARU-24

Species: Cumaru
Surface: Smooth
Color: Golden brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,540 lbs.
Dimensions: 23.875" x 23.875" x 1.69"
Weight: 24 lbs.
Weight PSF: 6 PSF
Bison Continuous Kerf cut design

Model: WTFSC-100%CUMARU-48

Species: Cumaru
Surface: Smooth or Ribbed
Color: Golden brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,540 lbs.
Dimensions: 47.9375" x 23.875" x 1.69"
Weight: 48 lbs.
Weight PSF: 6 PSF
Bison Continuous Kerf cut design

*The colors may differ than pictured and change without notice.

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Bison Mahogany Wood Tiles

Model: WTMHANGANY-24-SMOOTH

Species: Mahogany
Surface: Smooth
Color: Golden brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 800 lbs.
Dimensions: 24.125" x 24.125" x 1.27"
Weight: 14 lbs.
Weight PSF: 3.5 PSF
Bison Continuous Kerf cut design

Bison Genuine Mahogany Wood Tiles are harvested from government-regulated Fijian plantations. The forests are closely monitored and adhere to strict performance requirements and protocols. The mahogany adheres to these same protocols during manufacturing in Vietnam to ensure the mahogany only comes from these plantations. Bison Genuine Mahogany Wood Tiles can be easily stained to match interior flooring or to match specific color requirements.

*The colors may differ than pictured and change without notice.

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Bison Bamboo Tiles

Model: WT-AMBOO-24-SMOOTH

Species: Bamboo
Surface: Smooth
Color: Golden brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,850 lbs.
Dimensions: 23.875" x 23.875" x 1.57"
Weight: 24.35 lbs.
Weight PSF: 6.1 PSF
Bison Continuous Kerf cut design

Bison Bamboo Tiles are constructed from dassoXTR Fixed Bamboo® that is manufactured using dassoXTR process, which combines two stages of high heat to carbonize the bamboo, removing the starch and sugar, and then restructuring the bamboo, reflecting its natural strength characteristics. The modified bamboo strands are fused together using phenolic resin - the same resin used to make bowling balls. The result is an extremely dense, durable, exterior-use product composed of 87% natural, fused strand bamboo fibers, and 13% resin. NOTE: Please refer to the most up to date version of Bison Wood Tile Care & Maintenance Considerations for Bamboo for tile specific care, which can be found online at www.bisonip.com.

Bamboo Tiles:
+ Sustainable
+ Durable
+ Uniform Appearance

*The colors may differ than pictured and change without notice.

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Bison Special Order Wood Tiles

Please inquire for availability of other wood species.

Model: WT-PE-48-ECO-SMOOTH
WT-PE-72-SMOOTH
WT-PE-96-SMOOTH

Species: Ipé
Surface: Smooth
Color: Brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,480 lbs.
Dimensions: 23.875" x 23.875" x 1.69"
Weight: 48 lbs.
Weight PSF: 7.5 PSF / 5.9 PSF / 5.5 PSF
Bison Continuous Kerf cut design

Model: WT-PE-72-SMOOTH
WT-PE-96-SMOOTH

Species: Ipé
Surface: Smooth or Ribbed
Color: Brown*

ASTM E1081/1074 Class A Spread of Flame
Janka Hardness Rating: 3,480 lbs.
Dimensions: 47.9375" x 23.875" x 1.69"
Weight: 96 lbs.
Weight PSF: 15 PSF / 11.8 PSF
Bison Continuous Kerf cut design

*The colors may differ than pictured and change without notice.

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Bison custom wood tiles can be manufactured to your specific design requirements. Contact the Bison sales team for more information.

Sourcing

Bison is committed to ethical business practices and responsible interactions with our employees, customers, and suppliers. Bison ensures that the hardwoods used in all our wood tile products are harvested from sustainable sources that comply with strict regulations regarding extraction, milling, and transport. All sustainable sources that meet the IBAMA (Brazilian Institute of Environment and Renewable Resources) requirements that show Proof of Origin and legal harvesting. Bison is committed to meeting the Lacey Act's objectives of preventing illegally sourced woods from being trafficked in the United States. Bison only chooses global partners who support these core values to meet or exceed the standards of environmental management. Bison will not knowingly transport, sell, receive, or purchase any wood that has been illegally sourced.

*US Patent #8,302,356 and Patents Pending.

Bison Innovative Products | 701 Chagge Street, Unit 120, Denver, CO 80204 USA | 800-333-4234 | www.bisonip.com

Installation

Bison recommends the use of Bison Pedestals and the FS-1 Wood Tile Fastening Kit when installing Bison Wood Tiles. The Bison Pedestal Wood Tile System installs quickly, securely, and allows for single tile removal after installation if needed. The FS-1 is available exclusively from Bison. Install Bison Wood Tiles to Bison Pedestals without penetrating or damaging the wood. When installing an FS-1, use the long screw for adjustable pedestals or the short screw for HD20 and HD25 fixed height pedestals. Using the wrong screw could cause damage to the roofing membrane. NOTE: For more information, please reference the most up to date version of the Bison Wood Tile Installation Details, which can be found online at www.bisonip.com.

Testing

Description	Test	Bison IPé Results/Requirements
Slip Resistance	ASTM C1028	SCOF Dry: 90 and Wet: 72
Solar Reflectance	ASTM E1990-11	85 Average Value 80 Average Weathered One Year
Moisture Resistance	ASTM C1348-09	0.05 Max 0.025 Weathered One Year
Warp (up) on Pedestals	ASTM C1371-04a	0.015 Max 0.015 Weathered One Year
Fire Spread	ASTM E84	Class B
Fire - Spread of Flame	ASTM E136	Class A Spread of Flame
Fire - Flame Spread & Smoke Developed	ASTM E84	Class B
Fire - IP (all Underlayment Test)	ISA 127-A4 Part A	Pass
Compressed Load on Woodfast Pedestals	CSA C108	Maximum Total Load 1,000 lbs (448 N) Pass
Uniform Load on Woodfast Pedestals	CSA C108-3010	Maximum Total Load 680 pd (33 kPa) Pass

*US Patent #8,302,356 and Patents Pending.

Bison Innovative Products | 701 Chagge Street, Unit 120, Denver, CO 80204 USA | 800-333-4234 | www.bisonip.com

Care & Maintenance Considerations

Bison Wood Tiles are an ideal long lasting, low-maintenance decking solution providing warmth, excellent weather resistance, and architectural charm to decks.

Wood Characteristics

Bison Wood Tiles are made of South American (Cumaru, Ipé, Garapa, and Massaranduba), Fijian (Mahogany), and Chinese (Fixed Bamboo) hardwoods which contain a rich variety of graining and coloration, are exceptionally dense, and resistant to insects. Bison Wood Tiles are a natural material that can absorb or lose moisture in different climates. The natural shading, coloration, and graining variations add to the architectural character and overall visual appeal of the finished product.

Being a natural product, Bison Wood Tiles will react to the surrounding environmental conditions. Surfaces may get hot or stain when exposed to various materials including metal, steel, iron, or aluminum filings, pencils, erasers, tools, or fasteners; over enriched fertilizers; plant debris, animal urine, beverage, food, or grease; spills, or mold that naturally occurs in humid or moist locations. To avoid spotting or staining during construction, Bison recommends covering the deck to reduce exposure to metal that could rust and react with the deck surface.

Cleaning, Sealing, & Staining

Bison Wood Tiles are made of hardwoods that will weather over time, developing a silvery-grey patina. In order to maintain the original coloring, Bison Wood Tiles can be periodically cleaned and sealed. Use deck products designed for hardwoods. Spot cleaning can be done, but for a consistent appearance, Bison recommends cleaning the entire deck. Most decks need to be cleaned after installation is complete.

Test any cleaners, brighteners, or sealants in an inconspicuous area first before applying them to the installed deck. In addition, always check with the manufacturer of your seal membrane to ensure that any cleaning solution, stain, oil, deck brightener, or bleach will not compromise or damage the waterproofing membrane. Remember to use safety glasses, respirators, and gloves in handling any materials that contain chemicals. Refer to product manufacturer's SDS for more information on chemical components and safe handling practices. CAUTION: Do not apply this with urea, iron, or steel brushes.

The following manufacturers offer products specifically designed for use with dense hardwoods: Masmar's, Penlon, Dely, and TimberPro. Follow the manufacturers' instructions and repeat as needed to clean stubborn stains. Rinse the deck, adjacent walls, and surrounding areas thoroughly with water prior to and after using wood-cleaners or brighteners. Once cleaned and dry, you may apply a UV finish or sealant to the wood if desired.

NOTE: Additional Bison Wood Tile Care & Maintenance Considerations and Wood Tile Cleaning Recommendations are available online at www.bisonip.com.

Bison Innovative Products | 701 Chagge Street, Unit 120, Denver, CO 80204 USA | 800-333-4234 | www.bisonip.com

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01	03/10/21	City Plan Check #02	LB
NO	DATE	REASON FOR ISSUE	CHK

PERMIT SET

ARCHITECT

o.lbm
072 Embarcadero Road, Palo Alto, CA 94303
619.410.1432 | lb@leonardobuendia.com

CONSULTANT

CONSULTANT

CLIENT
Patricia Dziuk

KEY PLAN

STAMP

PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Wood Deck Product Information

PROJECT
DZK-2018-01

DATE
11/27/2019

NUMBER
A-801

SCALE

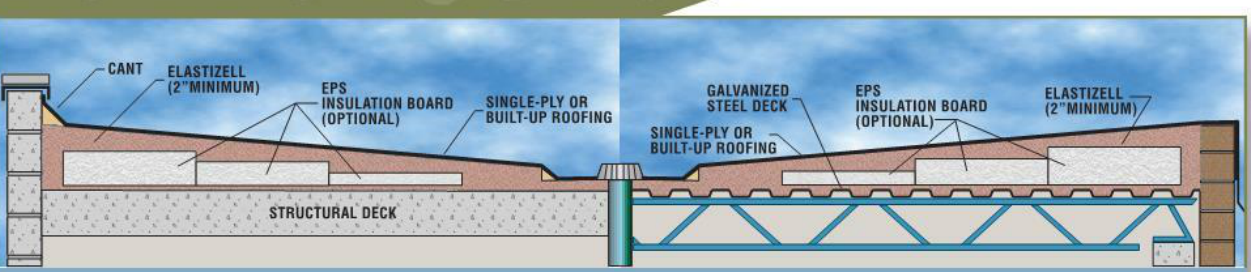
Light Weight Insulation Concrete

- PERMANENT
- LIGHTWEIGHT
- ECONOMICAL
- NON-COMBUSTIBLE
- RESISTANT TO WIND UPLIFT
- APPROVED-STRONG
- POSITIVE SLOPE-TO-DRAIN
- COMPATIBLE WITH ROOFING
- INSULATIVE
- DIMENSIONALLY STABLE
- EASILY RE-ROOFABLE
- AIR BARRIER IMPROVES R-VALUE
- PERMANENT
- ECONOMICAL
- NON-COMBUSTIBLE
- RESISTANT TO WIND UPLIFT
- APPROVED-STRONG
- POSITIVE SLOPE-TO-DRAIN
- SUPERIOR FOR RE-ROOFING

The ELASTIZELL Advantage
FOR QUALITY LOW DENSITY INSULATING CONCRETE ROOF DECKS



ELASTIZELL ADVANTAGES



OVER PRECAST OR STRUCTURAL CONCRETE
Elastizell Roof Decks do not require the sloped steel decks...
OVER GALVANIZED STEEL DECKS
Elastizell Roof Decks do not require the sloped steel decks...
PERMANENT
Elastizell Roof Decks completely encapsulate the EPS insulation board within the system...
POSITIVE DRAINAGE
Elastizell Roof Decks provide positive drainage in both new construction and re-roofing applications...
FIRE RATINGS/NON-COMBUSTIBLE
Elastizell Roof Decks have numerous fire ratings...
EXCELLENT WIND UPLIFT
Elastizell Roof Decks perform as an air retainer providing excellent wind uplift performance...
CONSTRUCTIBILITY
Flat decks are simpler to design and easier to construct than a sloped structure...
VERSATILE
Elastizell Roof Decks can be placed over precast or cast-in-place concrete...
RE-ROOFABILITY & NEW CONSTRUCTION
Elastizell Roof Decks encapsulate EPS board within the system...
SPEED
Roofing may begin when the Elastizell Roof Deck can withstand foot traffic...
RE-ROOFING & SUSTAINABILITY
Problem: Insulation board systems typically require total tear-off in re-roofing applications...
Elastizell and LEED
Elastizell Low Density Insulating Concrete Roof Decks have been used on many LEED certified projects...
Guides and Approvals
Underwriters Laboratories: Wind Uplift Class 90 - Construction No. 155...
Web Links for Specific Information: For a current Standard Specification for Elastizell Roof Decks...

For more than 50 years, the Elastizell Corporation of America has researched, developed, tested and improved the Elastizell Roof Deck System.

Elastizell Roof Decks have numerous wind uplift, fire and seismic ratings with both mechanically fastened, ball-up-roofing systems and fully adhered single ply membranes.

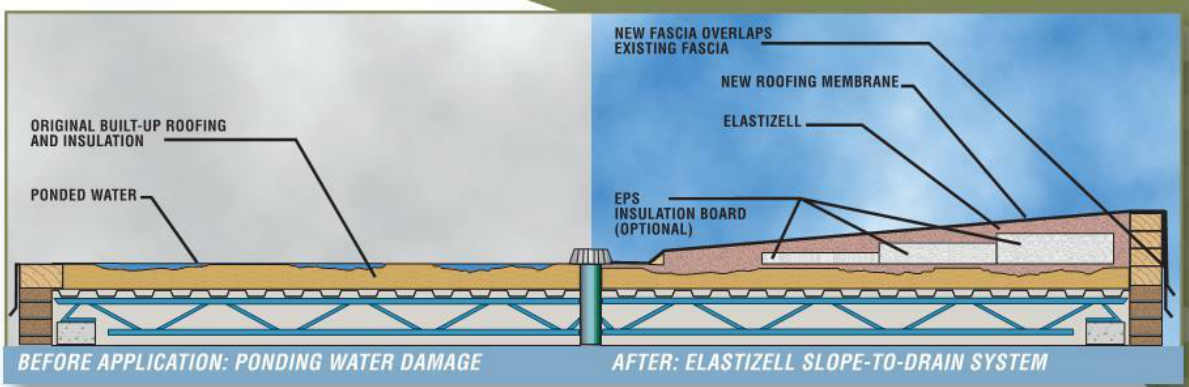
Major roofing manufacturers accept Elastizell Roof Decks with their warranted membranes.

Advantages of Elastizell

- **VERSATILE**
Elastizell Roof Decks can be placed over precast or cast-in-place concrete, as well as galvanized (G-60 or G-90) steel decking. EPS insulation board increases R-values and reduces dead load, with system weights as low as 5 to 9 pcf.
- **RE-ROOFABILITY & NEW CONSTRUCTION**
Elastizell Roof Decks encapsulate EPS board within the system. The EPS board is bonded to the deck in new construction or to the existing deck in re-roofing applications. When combined with EPS insulation, Elastizell Roof Decks provide a solid base for roofing membranes with custom slope-to-drain capability. The EPS insulation is protected within the system for a permanent LTR (Long Term Thermal Resistance).
- **SPEED**
Roofing may begin when the Elastizell Roof Deck can withstand foot traffic - typically two to three days after the deck is cast. The Elastizell Roof Deck should not be left exposed for longer than five to seven days, especially in dry climates. Cracking or cracking of the surface of the deck is not detrimental to the roofing system.

■ ELASTIZELL

RE-ROOFING & SUSTAINABILITY



Elastizell Superior for Re-Roofing
Insulation board systems typically require total tear-off in re-roofing applications. This is because the board has lost its strength and insulation value. Total tear-off is risky and can pose a threat to the building's interior. A great deal of debris must be hauled to landfill - a costly operation which is time consuming and environmentally unacceptable.

Two inches of Elastizell low density insulating concrete adds 7 to 9 pcf to the structure. Two inches of ponded water adds 10 pcf dead load.

Discussion
A major advantage of the Elastizell re-roofing system is that it may be applied directly over the existing roof to correct drainage. The addition of EPS insulation board encapsulated within the Elastizell provides increased thermal insulation and a permanent, solid base for the final roofing membrane system. If portions of the existing insulation are wet or deteriorated, they should be replaced. If the old roof remains in place, the mess, time, and expense of tear-off are avoided.

STEP BY STEP RE-ROOFING PROCEDURE:

1. Check Existing Structure - Analyze the existing system for load carrying capability.
2. Remove Loose Gravel - All loose gravel must be removed from the roof deck.
3. Cast the Elastizell Roof Deck - EPS insulation board is bonded to the deck as the Elastizell deck is cast, slope-to-drain.
4. Apply New Membrane - The roofing membrane is installed according to manufacturer's specifications.
5. Penetrator Venting - Penetrator venting is provided at the flashing/counter flashing detail, whenever possible.

Problem
Insulation board systems typically require total tear-off in re-roofing applications. This is because the board has lost its strength and insulation value. Total tear-off is risky and can pose a threat to the building's interior. A great deal of debris must be hauled to landfill - a costly operation which is time consuming and environmentally unacceptable.

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■ ELASTIZELL

SECTION 035216 - LIGHTWEIGHT INSULATING CONCRETE ROOF DECKS

PART 1 - GENERAL

- 1.1 Description: Provide an insulating concrete (cellular or hybrid) roof deck system as shown on the Drawings and as needed for a complete and proper installation.
- 1.2 Applicator qualification: The Applicator shall be approved by the Manufacturer - Elastizell Corporation of America.
- 1.3 Certification: When required upon completion, a certificate from the Manufacturer and Applicator states that the materials and installation methods follow current practices.
- 1.4 Product data: Prior to start of the work, provide installation procedures, fire ratings, and wind uplift data for this application.

PART 2 - PRODUCTS

- 2.1 Insulating concrete is a slurry of cement, water, and Elastizell preformed foam to produce an insulating concrete of a specific density range. Foam concentrate shall comply with ASTM C369 when tested in accordance with ASTM C796.
- 2.2 Cement: Portland cement shall comply with ASTM C150
- 2.3 Water: Use potable water.
- 2.4 Aggregate: For hybrid mixtures, the expanded mineral aggregate shall comply with ASTM C332, Group I.
- 2.5 Use Manufacturer approved admixtures for water reducing and set acceleration.
- 2.6 Physical properties shall meet the following criteria:

Range II	Range III*
Cast Density	34-42 pcf
Minimum Compressive Strength	160 psi
Roofing Membrane Type	nalled base sheet fully adhered system

* Hybrid mixtures may be used with Range III by the addition of 1 to 2 bags of expanded aggregates.
- 2.7 Insulation Board: When included, a minimum 1.0 pcf EPS insulation board shall conform to ASTM C578 Type I, in thickness shown on the Drawings. EPS board shall have bond holes equal to approximately 3% of the board area. The board is placed in a bond coat and topped with a minimum 2" of insulating concrete. The EPS board may be stair-stepped or of constant thickness.
- 2.8 Expansion Joints: Provide Expansion joints if they are in the structural system and per NRCA recommendations. Control joint filler is not necessary at vertical protrusions.

2.9 Reinforcement: Keydeck Mesh Style No. 2160-2-1619 may be required for some fire rated systems over steel deck. Elastizell insulating concrete may contain Zell-Crete Fibers in the mixture, as required, in some instances.

PART 3 - EXECUTION

- 3.1 Inspection: Prior to starting work, any unsatisfactory conditions of related trades shall be corrected by others.
 - 3.2 Installation: Install the insulating concrete roof deck system in accordance with current practices to insure proper drainage, the required insulation value, and fire and uplift ratings.
 - 3.2.1 Preparation: General Contractor shall clear deck of all standing water, dirt, debris, ice, etc. Prepare the roof grades prior to placing the insulating concrete roof deck system.
 - 3.2.2 Mixing and placing: Insulating concrete is mixed in approved equipment and pumped into place. EPS bond coats, double casting, and two-density casting are acceptable methods of installation.
 - 3.2.3 Finishing: Screed the insulating concrete to the proper thickness and slope. The surface shall be free of ridges and sharp projections prior to installation of the roofing membrane.
 - 3.2.4 Weather: Insulating concrete may be placed when temperatures are 32°F and rising. If colder temperatures are anticipated, the Applicator shall take suitable precautions (heated water, etc) for the installation of an acceptable deck. Coordinate the roofing membrane application with the insulating concrete installation to avoid prolonged exposure of the deck.
 - 3.2.5 Testing: Check the cast density at the point of placement and adjust the mix to obtain the required cast density. A minimum 4 test specimens (2"x4" cylinders) shall be sampled at the point of placement daily or for each 100 cubic yards of material placed. Protect samples from damage, temperature extremes and test per ASTM C495. Compressive test samples shall not be oven-dried prior to testing. Manufacturer shall conduct and report test results.
 - 3.3 Completion: For nalled base sheet applications, roofing membrane installation may begin after a nail pull test is conducted with no failure resistance. This facilitates deck curing and reduces drying shrinkage. For fully adhered systems, a peel test of the membrane attachment should be conducted per the roofing manufacturer's requirement. This is dependent on the type of adhesive that the roofing manufacturer recommends.
- Protect the insulating concrete roof deck from construction traffic. The roof deck should not be left exposed for longer than 7 days. The Applicator cannot be responsible for rain (moisture) entering the roof deck after the deck is cast and finished. The general contractor and roofing contractor are responsible for removing excess water in the system. Consult the roofing membrane manufacturer for their recommended nailing pattern or adhesive for securing the roofing membrane to the roof deck system.

■ ELASTIZELL

Furring Channels

ClarkDietrich Product Submittal Sheet

Technical Services: 888-437-3244 | Sales: 800-543-7140
Engineering Services: 877-832-3268 | clarkdietrich.com

Drywall Z-Furring Channel
2" depth x 30mils (20 ga DW)

08.22.16 (Non-Structural Metal Framing)

Z-Furring channels are an ideal product for furring out the interior walls on an existing masonry or new concrete masonry walls. It is especially useful when insulation is required on the interior side of a masonry wall. The sheet is attached to masonry and drywall is attached to the long leg.

Product Data & Ordering Information:
Material: All Material Grade 304 min. yield strength
30mils 20 ga DW, 0.0312" Design Thickness, 0.0296" Min. Thickness
Coating: GALVALUME (G60 available)
Dimensions: Leg 1 = 3/4", Leg 2 = 1 1/4", Depth = 2"
Sheet Length: 10' 0" long
Packaging: (10) pieces per bundle - (280) pieces per pallet
Finishing weight: 41 lbs/bundle or 418 lbs/1000'

ASTM & Code Standards:
• AISI North American Specification (NASPEC) 2001 Supplement
• Furring channels in products to meet or exceed ASTM C845
• Galvanized sheet steel meets or exceeds requirements of ASTM A924 & A1003
• For installation & storage information refer to ASTM C154
• SDS is Product Certification Information available at www.clarkdietrich.com/SupportDocs

Related Accessories:
• Other profiles available: 1", 1 1/2", 2", 2 1/2" and 3"
• 7/8" and 1 1/2" Furring / Hat Channel
• Single and Double Leg Resistant Channel

Sustainability Credits:
For more details and LEED writers contact: Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED
LEED v4 MR Credit - Building Product Disclosure and Optimization: EPD (1 point): Material Ingredients (1 point): Construction and Construction Waste Management (2 points), Innovation Credit (up to 2 points)
LEED v4 MR Credit #2 MR 2 (2 points): Innovation Credit (up to 2 points)
ClarkDietrich's steel products are 100% recyclable and have a national average recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at info@clarkdietrich.com (888-437-3244)

Project Information
Address:

Contractor Information
Contact:
Phone:
Fax:

Architect Information
Name:
Phone:
Fax:

Z-Furring (04/02/17) ClarkDietrich Building Systems

XPS Rigid Insulation

Insulation

GreenGuard® Type IV XPS Insulation Board

FOR USE AS GENERAL PURPOSE INSULATION FOR ROOFING, WALL AND FOUNDATION APPLICATIONS REQUIRING 25 PSI MINIMUM COMPRESSIVE STRENGTH

- R-value of 5.0 per inch of thickness
- Does not absorb moisture
- Retains insulating properties over time
- Maintains integrity
- Lightweight, durable, easy to use
- Meets and exceeds all Type IV and Type X specifications
- Continuous insulation (CI) for walls
- Insulates foundation exterior and protects against backfill damage
- Non-deleterious material
- Available as pre-cut 16 inch wide board for cavity wall
- Available as score board for cavity wall; 4' x 8' sheet snaps into 16 in., 24 in. or 32 in. widths

Kingspan

GreenGuard® Type IV XPS Insulation Board

Description
Kingspan GreenGuard® Type IV XPS Insulation Board comprises closed-cell extruded polystyrene (XPS) with a minimum compressive strength of 25 psi. It has high water resistance and R-value of 5.0 per inch of thickness. It is available in a square edge board, slip-lap edge board, pre-cut 16 inch wide board and a score board.

Compliance
Kingspan GreenGuard® Type IV XPS Insulation Board complies with:
ICC-ES ESR-1022
CA 464R-4711 (L.C. No. T 1506)
Florida Product Approval - No. FL14164-R
ICC-408-1272-12
MIN Dept. of Energy - Chapter 7604
FM Approvals - see Roofing Roof System Listings: Miami-Dade County, FL
UL - See Classification Certificate A193.

Handling & Storage
When stored outdoors, all product should be protected from exposure to direct sunlight using the original packaging or an opaque, light-colored tarp. Material that has been unwrapped should be covered or rewrapped.

Health & Safety
Kingspan GreenGuard® Type IV XPS Insulation Board is made of synthetic materials that are generally recognized as not providing a food source for insects, fungus, mold, or mildew. It should always be properly installed and stored.

Properties

Property	Test Method	Result
General		
Nominal Thickness (in)	% 1", 1 1/2", 2", 2 1/2", 3", 4"	±0.25, ±0.125
Nominal Board Depth	16 1/2" / 21 1/4"	
Nominal Board Length (ft)	8	
Edge Profile	Slip-lap	
Product Type	ASTM C578	
Compressive Strength, Min. (psi)	ASTM D1621	25
Water Absorption, Max. (by volume)	ASTM C272	0.1
Water Vapor Permeance, Max. (perm)	ASTM E96	1.0
Density, Min. (pcf)	ASTM C203	1.6
Reinforced/Unreinforced		165
Thermal		
Thermal Resistance, R-value (ft²·h·°F/ Btu per in. thick)	ASTM C518	5.0
Thermal Conductivity, In-situ (W/m·K)	ASTM C518	0.02
Thermal Conductivity, In-lab (W/m·K)	ASTM C518	0.02
Fire/Safety		
Flame Spread	ASTM E84 / UL-723	15 Class A
Smoke Developed	ASTM E84 / UL-723	140

For more information on specific building product recommendations and installation guidelines, contact your Kingspan Insulation LLC representative.

For the most current product and compliance information go to www.kingspaninsulation.us

Kingspan Insulation LLC
2100 RiverEdge Parkway, Suite 170, Marietta, Georgia 30067
1-800-241-4400
www.kingspaninsulation.us

Kingspan

PHYSICAL PROPERTIES

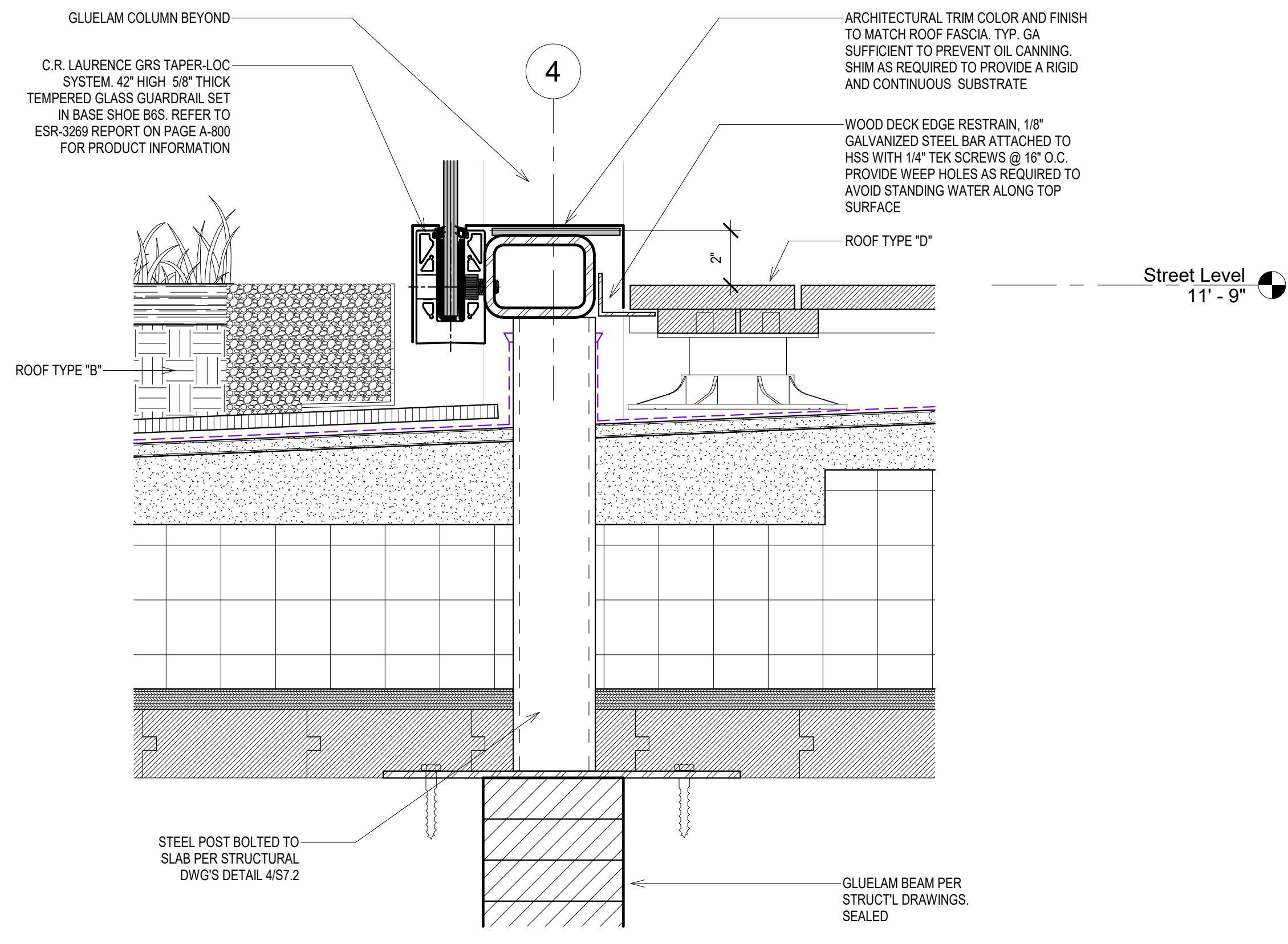
RANGE	CAST DENSITY (pcf)	AIR DRY DENSITY (pcf)	28 DAY MINIMUM COMPRESSIVE STRENGTH (psi)	R-VALUE (per inch)	AVERAGE WEIGHT (pcf)
II	34-42	26-34	160-250	1.20-1.34	-6.9
III	42-48	34-40	250-350	0.86-1.00	-8.2

TYPICAL R-VALUES & LOADS OVER 1-1/2" 22 GAUGE STEEL DECK

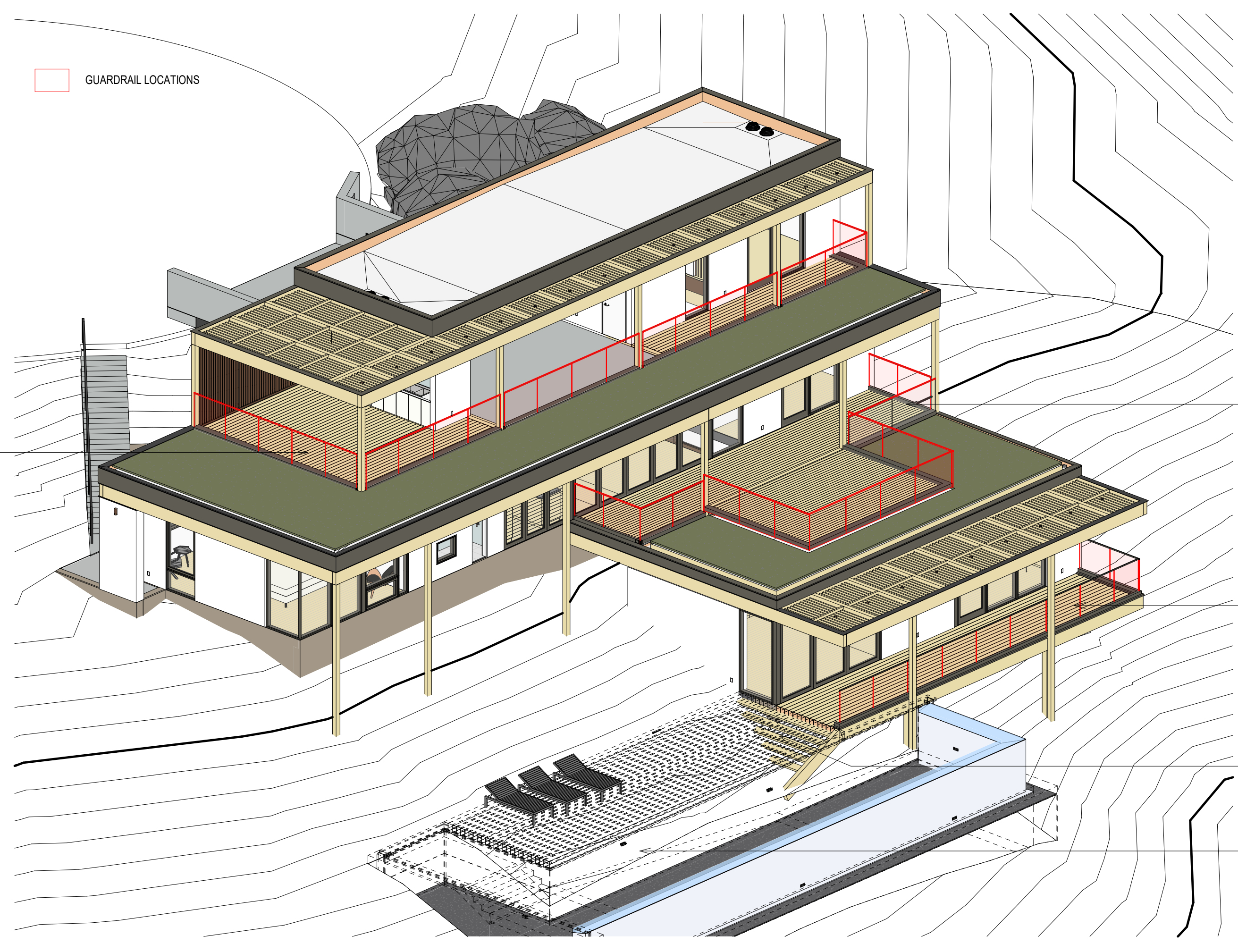
AVG. THICKNESS (in)	RANGE II ELASTIZELL (Fully Adhered)	RANGE III ELASTIZELL (Single Ply)
2 1/2"	R-3.3 6.9 pcf	R-2.8 6.2 pcf
2 3/4"	R-3.6 7.2 pcf	R-3.1 6.5 pcf
2 7/8"	R-3.9 7.5 pcf	R-3.4 6.8 pcf

UL FIRE RATINGS

Unprotected Steel Deck	Protected Concrete Deck	Other Commonly Used Assemblies
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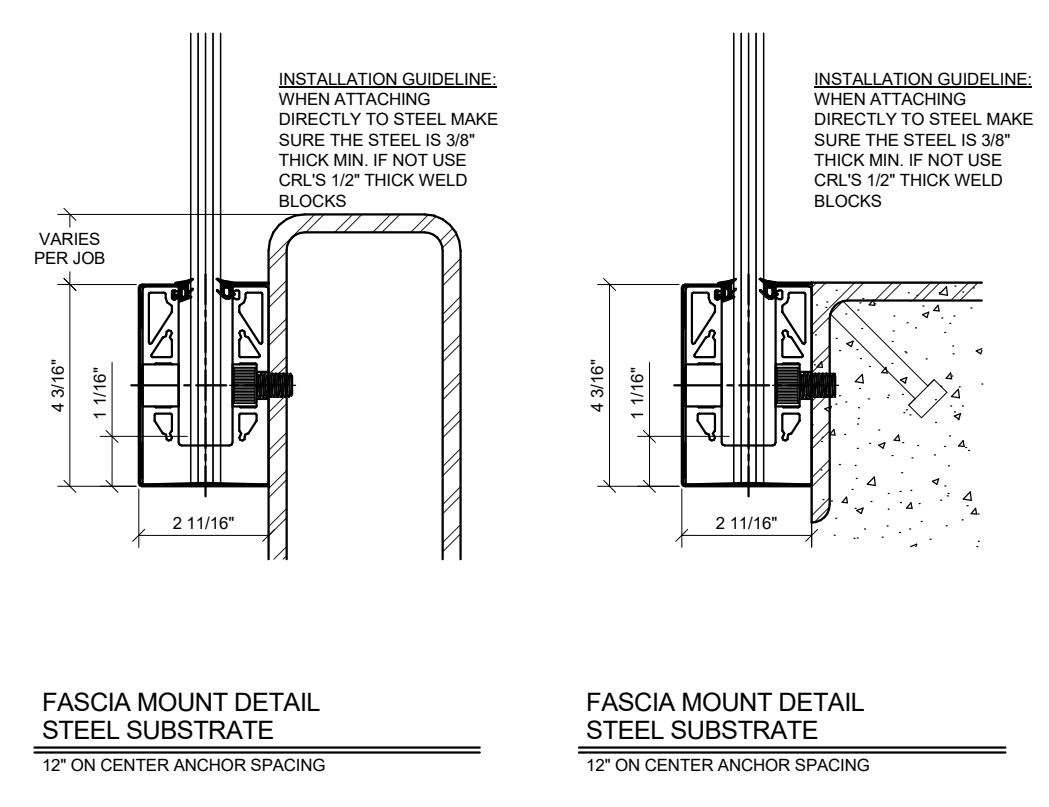


3 Detail Section, Wood Deck Edge Restrain, 01
3' = 1'-0"



Extent of Glass Guardrail Scope

Vehicular Waterproofing Membrane



2 CRL BASE SHOW TYP CONNECTIONS
3' = 1'-0"

TREMCO TECHNICAL DATA SHEET

Vulken® EWS with PUMA Technology
Waterproof Traffic Coating System
Vehicular System

Tremco PUMA BC (all grades): 6-gal pails
Tremco PUMA WC: 6-gal pails
Tremco PUMA TC: 6-gal pails
Tremco PUMA Initiator: 2.2-lb in 2-gal pails & 55-lb in 6-gal pails
Tremco PUMA Initiator+ 10-lb in 3-gal pails, 25-lb in 6-gal pails, 25 75-g pouches in a box
Tremco PUMA Filler Powder: 55-lb bags
Tremco PUMA Cleaner: 6-gal pails

PRODUCT DESCRIPTION
Vulken® EWS with PUMA Technology is designed to have tenacious adhesion and extreme abrasion resistance. It can be driven on in one hour, which will minimize operation disruption. Vulken Extreme Wearing System (EWS) is a waterproof traffic deck coating system that utilizes polyurethane-methacrylate (PUMA) technology. Vulken EWS vehicular system is composed of a primer (Tremco PUMA Primer or TREMPRIME VB Primer), a base coat (Tremco PUMA BC or BC LM), an intermediate wear coat (Tremco PUMA WC) and a top coat (Tremco PUMA TC). All system components, except TREMPRIME VB, are cured using Tremco PUMA Initiator or Initiator+.

Tremco PUMA Primer is a poly(methyl-methacrylate) (PMMA), two-component primer for porous and non-porous substrates.

TREMPRIME VB Primer is a two-component, epoxy based, solvent-free vapor barrier primer for concrete and plywood surfaces.

Tremco PUMA BC is a polyurethane-methacrylate (PUMA) base coat. Tremco PUMA BC bonds firmly to Tremco PUMA Primer. It retains its integrity even if substrate movement causes hair-line cracks of up to 1/16" (1.5 mm). If cut or damaged, Tremco PUMA BC will prevent water migration between itself and the substrate.

Tremco PUMA BC LM is a low-modulus version of Tremco PUMA BC waterproofing membrane that is used when dynamic movement and extreme service temperature ranges are anticipated.

Tremco PUMA WC is a polyurethane-methacrylate (PUMA) wear coat. Tremco PUMA WC is applied after Tremco PUMA BC has cured. The wear coat is loaded with aggregate to give the system excellent impact, abrasion and chemical resistance.

Tremco PUMA TC is a poly(methyl-methacrylate) (PMMA) top coat. Interlaminary adhesion to Tremco PUMA WC is exceedingly strong. The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete the Vulken EWS vehicular system.

Tremco PUMA Initiator/Initiator+ is a reactive catalyst in the form of a white powder used to cure all PUMA/PMMA resins.

BASIC USES
Vulken EWS is a cold-applied traffic deck coating system designed for waterproofing concrete slabs and protecting occupied areas underneath from water damage. Additionally, the system will protect the concrete from the damaging effects of chloride, deicing salts, chemicals, gasoline, oils and anti-freeze. The Vehicular System is ideal for parking structures, high-wear turn and drive lanes, helical ramps, and ticket splitters.

FEATURES & BENEFITS

- PUMA technology delivers extreme durability while maintaining its crack bridging characteristics, eliminating the need for reinforcing fabric.
- Rapid set-up times allow for quick overall installation, as well as the ability to open up to traffic one hour later.
- Can be applied at temperatures as low as 14 °F (5 °C), which allows for continuation of projects in the colder months.
- Initiator adjustments allow for 30 to 45 min cure time between applications, even at temperatures below freezing.
- Extremely forgiving application allows users to apply additional coats long after the previous coat has cured.
- Unique chemistry allows for easy repair.
- Compatible with Tremco sealants, coatings and expansion joints, which is essential for tie-ins, detailing and penetrations.

AVAILABILITY
Immediately available from your local Tremco Sales Representative

PACKAGING
Tremco PUMA Primer: 2-gal and 6-gal pails
TREMPRIME VB Primer: Part A: 2.4-gal pails; Part B: 1.2-gal pails

COLOURS
Tremco PUMA TC is available in Gray, Slate Gray, Charcoal, White, Beige, Tintable and Decorative. Universal Color Paks are available for use with Tremco PUMA TC Tintable.

APPLICABLE STANDARDS
ASTM C597
CSA S413

FIRE RATED ASSEMBLIES
ANSI UL 790 - Standard Test Methods for Fire Tests of Roof Coverings
CAN/ULC-S107 - Methods of Fire Tests of Fire Coverings

INSTALLATION
Concrete shall be water-cured and attain a 4000 PSI minimum compressive strength. Concrete finish shall be a light steel trowel followed by an equivalent CRI #3-#4 finish. Moisture content in the concrete must be lower than 6% as measured using a Tramex CM4-Moisture Meter. Depending on concrete construction and job site location, additional concrete testing may be required. Please contact your local Tremco Sales or Technical representative.

Please refer to the Vulken EWS Application Instructions for complete application details. The techniques involved may require modification to adjust to job-site specific conditions. Consult your Tremco Sales Representative or Tremco Technical Services for site conditions and requirements.

LIMITATIONS

- Use with adequate ventilation.
- Not for use over expanded polystyrene, extruded polystyrene, in place gypsum, lightweight insulating concrete, cementitious wood fiber decks and coal tar pitch.
- Do not apply in falling precipitation or when precipitation is imminent.
- All surfaces must be sound, clean, free of standing water and free from contamination.
- Any questions regarding drying times, coverage rates and unique application techniques should be directed to Tremco Technical Services or your local Tremco Sales Representative.
- Do not apply over contaminated surfaces.
- Do not trowel.
- Substrate must be at least 5 °F (3 °C) above the measured dew point temperatures to avoid dew point conditions.
- Do not store in direct sunlight for prolonged periods.
- Unvented metal pan decks, sub-granitic and hollow core plank decks require additional qualification prior to application. Please contact Tremco technical services for more information.

WARNTY
Tremco warrants its products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TREMCO PUMA BC	TREMCO PUMA WC	TREMCO PUMA TC
VOC Content	Method 310	0 g/L	0 g/L	0 g/L
% Solids (by weight)	ASTM D1353	100%	100%	100%
Drying Time @ 75 °F, 50% RH	ASTM D1640	80 mil film, 1 hr	65 mil film, 1 hr	17 mil film, 1 hr
Weathering	ASTM D692	N/A	N/A	No effect
Elongation	Weatherometer 350 hr	407-420%	250%	130%
Tensile Strength	ASTM D638 @ 75 °F	991 - 1680 psi	1550 psi	986 psi
Tearing Resistance	ASTM D4073	95 lbf	148 lbf	203 lbf
Hardness (Shore D)	ASTM D2240	18 - 35	45	55
Hardness (Shore A)	ASTM D2240	65-87	96	100
Abrasion Resistance (1000 cycles)	ATSM D4060	N/A	N/A	51 mil
Low-Temperature Crack Bridging	ASTM C1305	Passes	N/A	N/A
Taber Abrasion	ASTM C501	Passes	N/A	N/A
Peak Load @ 75 °F, min.	ASTM D5147	>170 lbf/in	81 lbf/in	298 lbf/in
Puncture Resistance	ASTM D5602	> 56 lbs	> 56 lbs	> 56 lbs
Water Absorption	ASTM D970	< 0.1%	< 0.1%	< 0.1%
Water Vapor Transmission	ASTM E96	0.03 perms	0.03 perms	0.03 perms
Adhesion-in-Peel	ASTM C794	Concrete failure with primer	35 lbs	N/A
Self-Ignition Temperature	ASTM D1929	800 °F	840 °F	850 °F
Smoke Density	ASTM D2843	4.1%	28.7%	2.1%
Rate of Burn	ASTM D693	1.2 in/min	1.7 in/min	0.2 in/min

Tremco Commercial Sealants & Waterproofing | tremcosealants.com

3735 Green Rd. 3501 Junction Ave. 1330 Grayhawk, Unit 1
 97346-0000 94060-0480 94060-0480
 256.292.0005 / 805.321.7906 425.289.2050 / 800.363.8857 415.421.3300 / 800.363.3233 514.521.9555

02	08/21/23	Bulletin_01	LB
01	03/30/22	City Plan Check #03	LB
NO	DATE	REASON FOR ISSUE	CHK

PERMIT SET

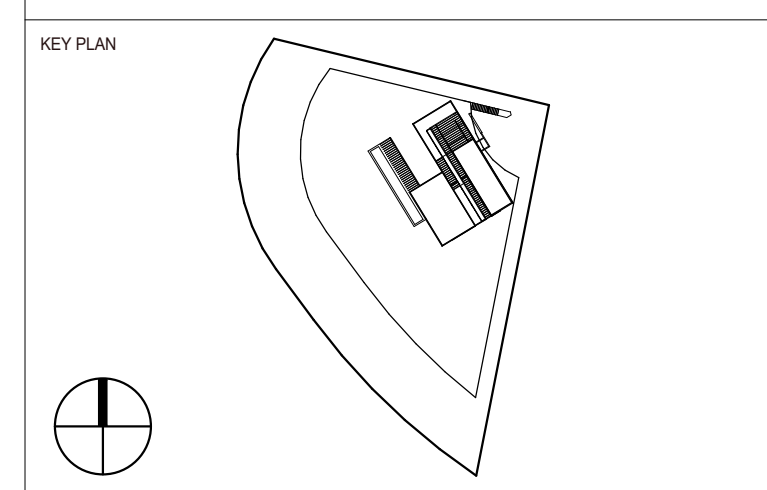
ARCHITECT

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CONSULTANT

CONSULTANT

CLIENT
Patricia Dziuk

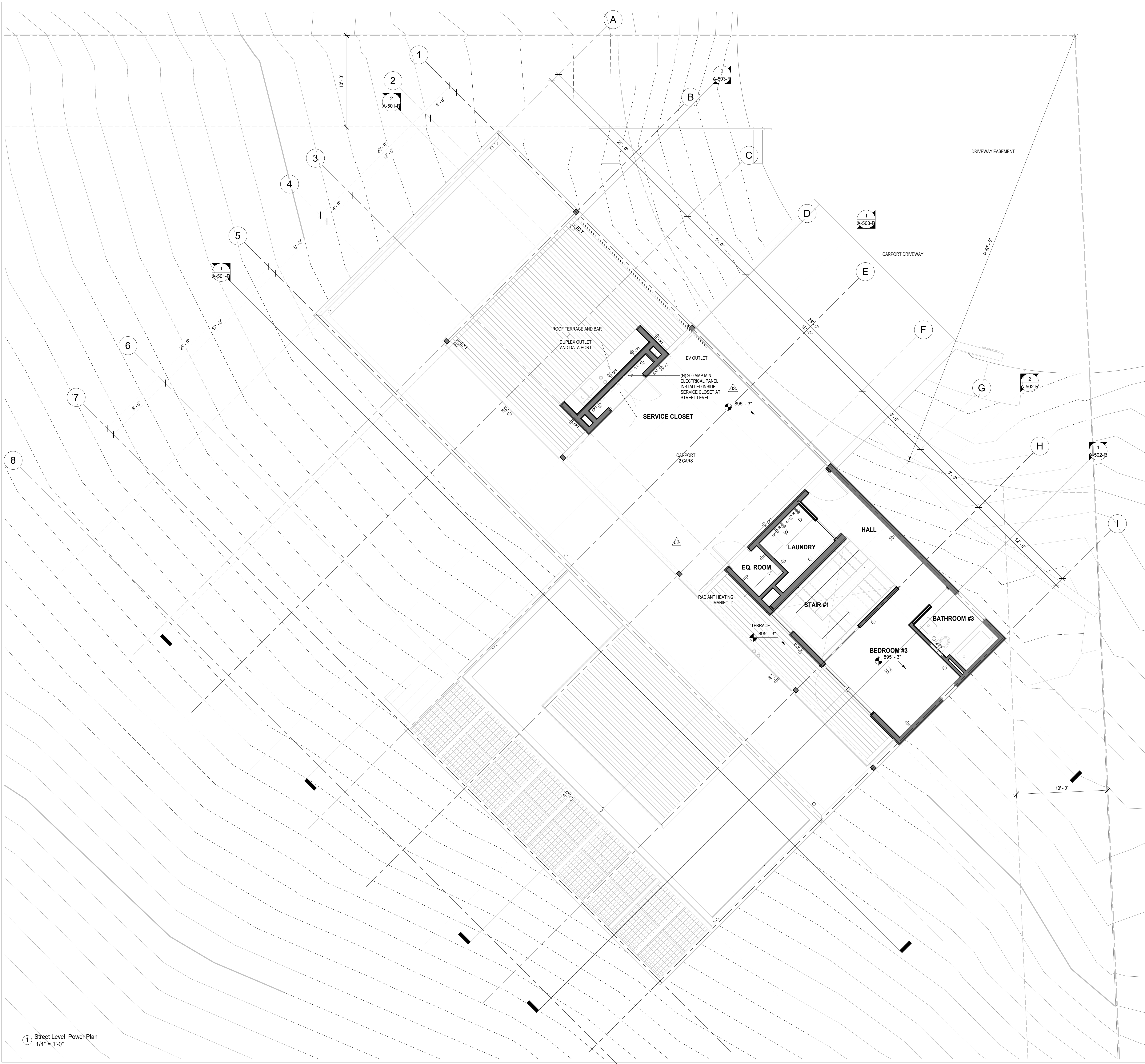


STAMP

PROJECT
Infinity Residence
4403 Alta Mira Drive
La Mesa, CA 91941

TITLE
Guardrail Detail & Scope
Vehicular Waterproofing Membrane

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
A-804-R	3" = 1'-0"



POWER LEGEND

- FLOOR MOUNTED POWER OUTLET - DUPLEX
- WALL MOUNTED POWER OUTLET - DUPLEX
- WALL MOUNTED POWER OUTLET - SINGLE - GFI
- WALL MOUNTED POWER OUTLET - SINGLE - RANGE
- WALL MOUNTED POWER OUTLET - SINGLE - EXTERIOR
- WALL MOUNTED POWER OUTLET - SINGLE - EXTERIOR HIGH HEIGHT MEASURED FROM FINISH FLOOR
- WALL MOUNTED POWER OUTLET - QUAD W/ POWER
- WALL MOUNTED POWER OUTLET - QUAD W/ POWER GFI

MEP NOTES

1. PROPERTY IS CONNECTED TO ELECTRICAL GRID
2. 200 AMP MINIMUM MAIN ELECTRICAL SERVICE PANEL
3. THE MAIN ELECTRICAL SERVICE PANEL SHALL NOT BE OF A TYPE WITH A CENTER-FED MAIN CIRCUIT BREAKER AND SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF DOUBLE-POLE CIRCUIT BREAKERS FOR A FUTURE SOLAR PHOTOVOLTAIC SYSTEM. SUCH RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER OR MAIN CIRCUIT BREAKER LOCATION. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS 'FOR FUTURE SOLAR PHOTOVOLTAIC'
4. PROVIDE A 30" X 36" DEEP WORKSPACE IN FRONT OF ELECTRICAL PANELS. NO PANELS ARE ALLOWED IN BATHROOMS. (CEC 110.26)
5. THE MAIN ELECTRICAL SERVICE PANEL SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF A CIRCUIT BREAKER FOR A FUTURE ELECTRIC VEHICLE CHARGING SYSTEM. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS 'EV CAPABLE'
6. DEDICATED 4-INCH ELECTRICAL JUNCTION BOX SHALL BE PERMANENTLY AND VISIBLY MARKED AS 'FOR FUTURE ELECTRIC VEHICLE CHARGING'
7. DRYER VENTS NEED TO BE A MINIMUM OF 4" DIAMETER AND A MAXIMUM OF 14' FOR COMBINED VERTICAL AND HORIZONTAL LENGTH WITH A MAXIMUM OF TWO 90 DEGREE ELBOWS. TWO FEET TO BE DEDUCTED TO OVERALL LENGTH FOR EACH ADDITIONAL ELBOW OVER MAXIMUM ALLOWED (CMC 304.4.2.1)
8. PROPERTY IS SERVICED BY NATURAL GAS
9. BATHROOMS, POWDER ROOMS AND WATER CLOSET COMPARTMENTS SHALL BE INSTALLED WITH A LOCAL EXHAUST FAN TO EXTERIOR PROVIDING A MINIMUM OF 50 CFM INTERMITTENT VENTILATION OR 20 CFM CONTINUOUS CENTILATION (CRCR 303.3, CalGreen 4.506.1, CMC Table 403.7)
10. SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD WIRED WITH BATTERY BACK-UP PER CRC R314.6
11. CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD WIRED WITH BATTERY BACK-UP PER CRC R315.5
12. A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION
13. AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 4 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME
14. DOORS BETWEEN GARAGE AND DWELLING SHALL BE GASKETED OR MADE SUBSTANTIALLY AIRTIGHT WITH WEATHER STRIPPING
15. AFCI OUTLETS, ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12)

NO	DATE	REASON FOR ISSUE	CHK
03	06/01/22	City Plan Check #04	LB
02	08/21/20	City Plan Check #01	LB
01	11/27/19	Plan Check Submission	LB

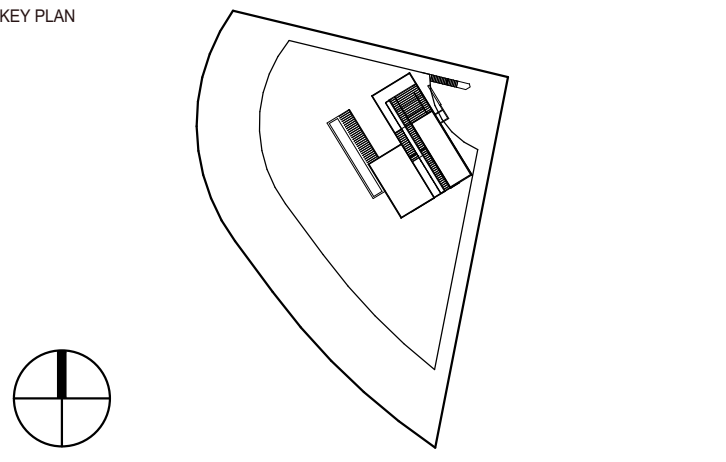
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CONSULTANT

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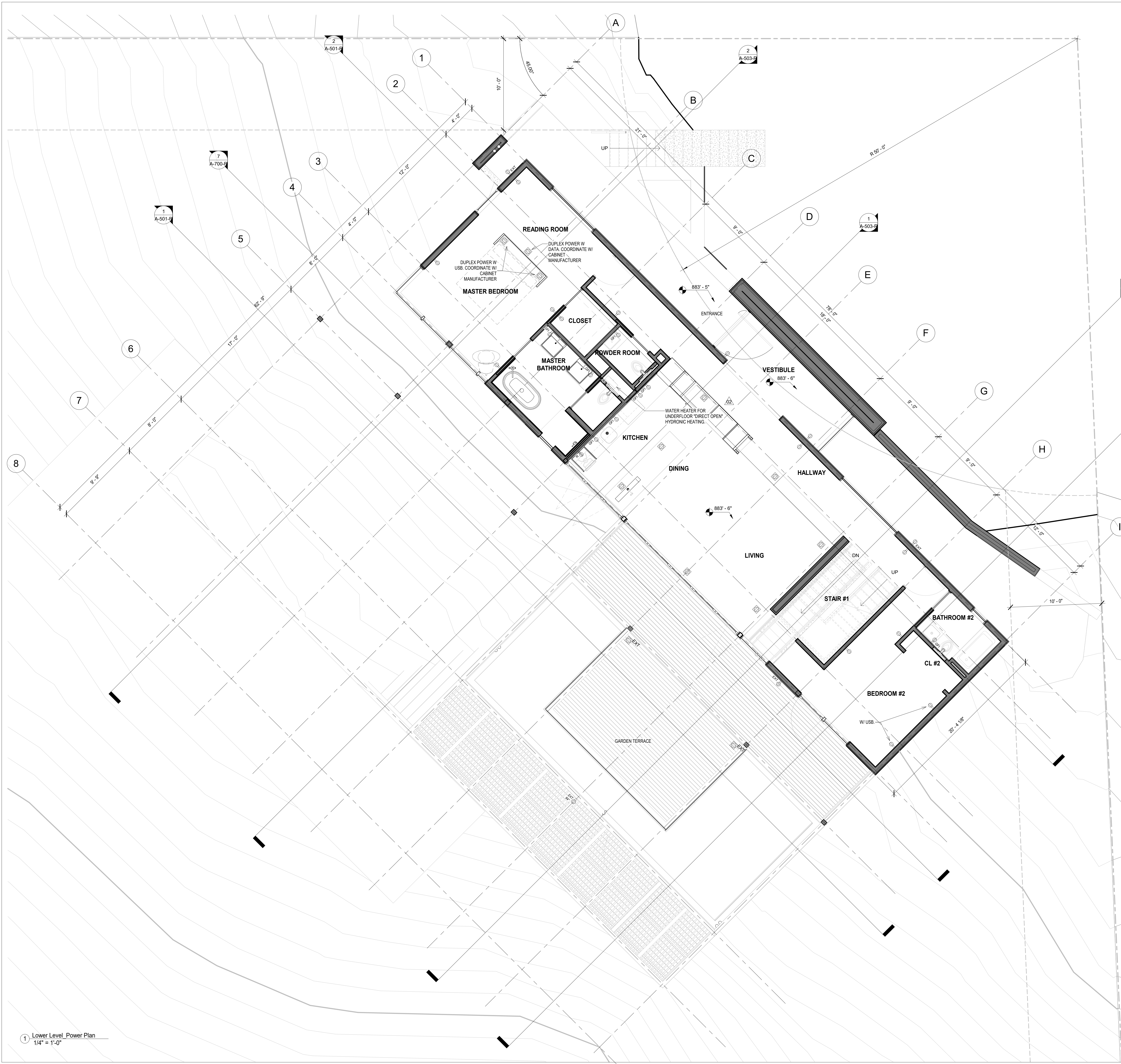
CLIENT
Patricia Dziuk











PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Street Level Power Plan

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
P-201	1/4" = 1'-0"



POWER LEGEND

-  FLOOR MOUNTED POWER OUTLET - DUPLEX
-  WALL MOUNTED POWER OUTLET - DUPLEX
-  WALL MOUNTED POWER OUTLET - SINGLE - GFI
-  WALL MOUNTED POWER OUTLET - SINGLE - RANGE
-  WALL MOUNTED POWER OUTLET - SINGLE - EXTERIOR
-  WALL MOUNTED POWER OUTLET - SINGLE - EXTERIOR HIGH HEIGHT MEASURED FROM FINISH FLOOR
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-  WALL MOUNTED POWER OUTLET - QUAD W/ POWER GFI

MEP NOTES

1. PROPERTY IS CONNECTED TO ELECTRICAL GRID
2. 200 AMP MINIMUM MAIN ELECTRICAL SERVICE PANEL
3. THE MAIN ELECTRICAL SERVICE PANEL SHALL NOT BE OF A TYPE WITH A CENTER-FED MAIN CIRCUIT BREAKER AND SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF DOUBLE-POLE CIRCUIT BREAKERS FOR A FUTURE SOLAR PHOTOVOLTAIC SYSTEM. SUCH RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER OR MAIN CIRCUIT BREAKER LOCATION. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS **FOR FUTURE SOLAR PHOTOVOLTAIC**
4. PROVIDE A 30" X 36" DEEP WORKSPACE IN FRONT OF ELECTRICAL PANELS. NO PANELS ARE ALLOWED IN BATHROOMS. (CEC 110.26)
5. THE MAIN ELECTRICAL SERVICE PANEL SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF A CIRCUIT BREAKER FOR A FUTURE ELECTRIC VEHICLE CHARGING SYSTEM. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS **EV CAPABLE**
6. DEDICATED 4-INCH ELECTRICAL JUNCTION BOX SHALL BE PERMANENTLY AND VISIBLY MARKED AS **FOR FUTURE ELECTRIC VEHICLE CHARGING**
7. DRYER VENT(S) NEED TO BE A MINIMUM OF 4" DIAMETER AND A MAXIMUM OF 14 FEET COMBINED VERTICAL AND HORIZONTAL LENGTH WITH A MAXIMUM OF TWO 90 DEGREE ELBOWS. TWO FEET TO BE DEDUCTED TO OVERALL LENGTH FOR EACH ADDITIONAL ELBOW OVER MAXIMUM ALLOWED (CMC 504.2.1)
8. PROPERTY IS SERVICED BY NATURAL GAS
9. BATHROOMS, POWDER ROOMS AND WATER CLOSET COMPARTMENTS SHALL BE INSTALLED WITH A LOCAL EXHAUST FAN TO EXTERIOR PROVIDING A MINIMUM OF 50 CFM INTERMITTENT VENTILATION OR 20 CFM CONTINUOUS CENTILATION (CIRC 303.3, CalGreen 4.506.1, CMC Table 403.7)
10. SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD WIRED WITH BATTERY BACK-UP PER CRC R314.6
11. CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD WIRED WITH BATTERY BACK-UP PER CRC R315.5
12. A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION
13. AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME
14. DOORS BETWEEN GARAGE AND DWELLING SHALL BE GASKETED OR MADE SUBSTANTIALLY AIRTIGHT WITH WEATHER STRIPPING
15. AFCI OUTLETS, ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DEN, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12)

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02	08/21/23	Bulletin 01	LB
01	11/27/19	Plan Check Submission	LB
NO	DATE	REASON FOR ISSUE	CHK

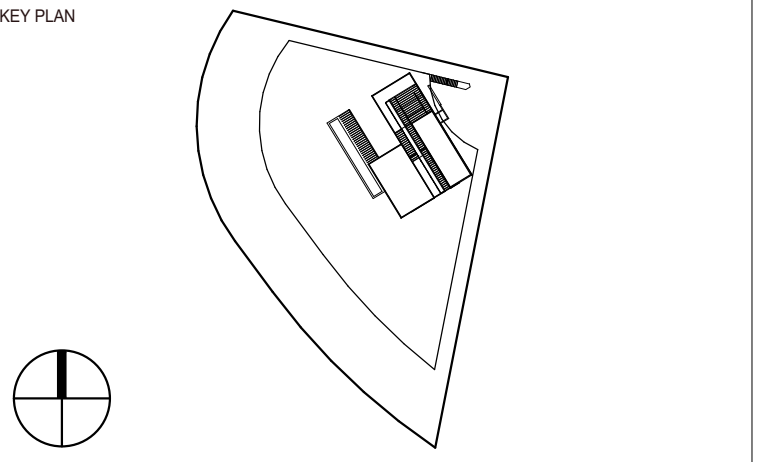
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Patricia Dziuk



PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941









TITLE
Lower Level Power Plan

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
P-202-R	1/4" = 1'-0"

1 Lower Level Power Plan
 1/4" = 1'-0"



POWER LEGEND

-  FLOOR MOUNTED POWER OUTLET - DUPLEX
-  WALL MOUNTED POWER OUTLET - DUPLEX
-  WALL MOUNTED POWER OUTLET - SINGLE - GFI
-  WALL MOUNTED POWER OUTLET - SINGLE - RANGE
-  WALL MOUNTED POWER OUTLET - SINGLE - EXTERIOR
-  WALL MOUNTED POWER OUTLET - SINGLE - EXTERIOR HIGH HEIGHT MEASURED FROM FINISH FLOOR
-  WALL MOUNTED POWER OUTLET - QUAD W/ POWER
-  WALL MOUNTED POWER OUTLET - QUAD W/ POWER GFI

MEP NOTES

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01	11/27/19	Plan Check Submission	LB
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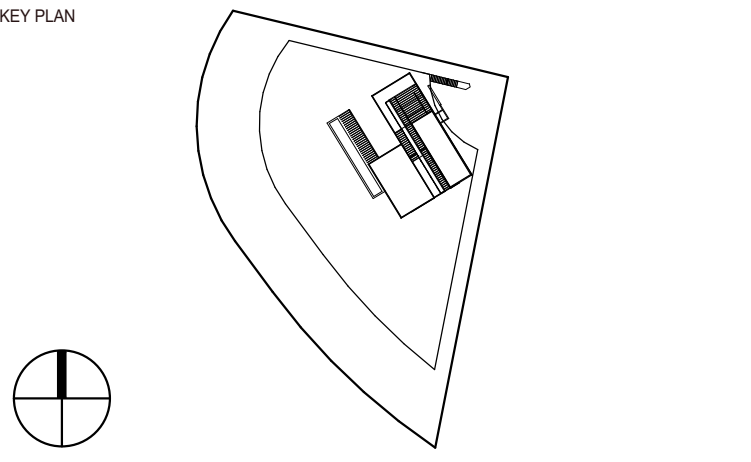
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CLIENT
Patricia Dziuk



PROJECT
Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941

TITLE
Pool Level Power Plan

PROJECT	DATE
DZK-2018-01	11/27/2019
NUMBER	SCALE
P-203	1/4" = 1'-0"

1 Pool Terrace Level Power Plan
 1/4" = 1'-0"

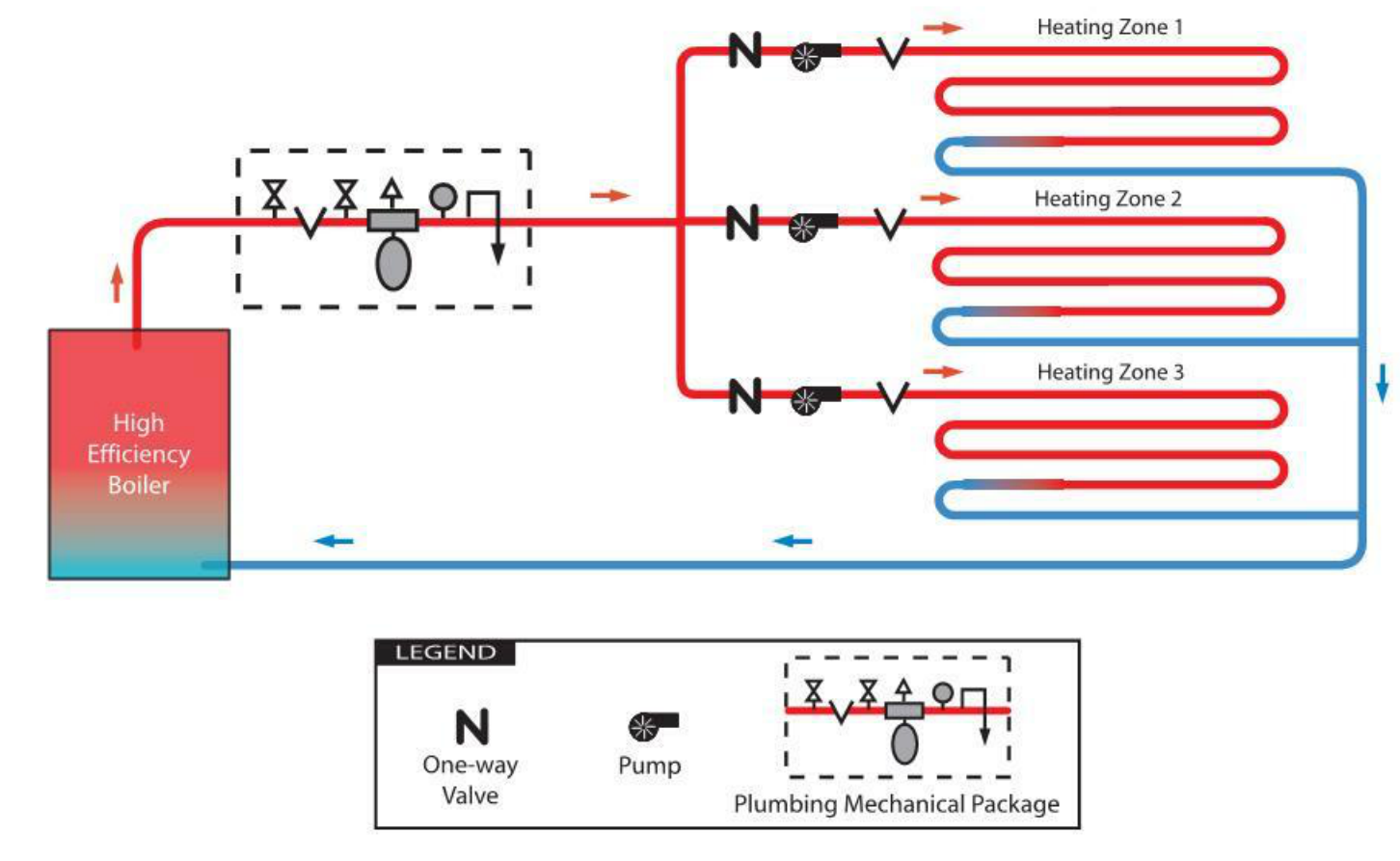
Radiantec SINCE 1979
UNDERFLOOR MATERIAL CALCULATION WORKSHEET

PROJECT NAME: Patricia Dziuk 55754

HEATED AREA	FLOOR CONSTRUCTION	TUBING SELECTION	OPERATING PARAMETERS	COMPONENTS	PUMP
Street Level Zone 1	790 X 1/2 PEK O2	8 1185 5-240 5-300	120 140 3.75 600	5 Wall	1 Med/High
Lower Level Zone 2	1565 X 1/2 PEK O2	9 2100 7-300 7-300	120 140 5.25	7 Wall	1 High
Pool Level Zone 3	445 X 1/2 PEK O2	9 600 2-300 2-300	120 140 1.50	2 Wall	1 Medium

Notes:
 Patricia, please call 800-451-7593 with any questions. Please check your local building codes with this system. We recommend installing 2 inches of extruded polystyrene underneath your slab. Thanks, Ian Prevost

Mechanical Schematic Drawing of a Closed Heating System having 3 zones



OPERATION
 Heat is provided when the pump is turned on by the thermostat. Warm water (or other fluid) flows from the boiler throughout the heating zone until heat is no longer needed.

ADVANTAGES
 Non potable fluids can be used (such as antifreeze solutions). High heat outputs. Simplified code approvals.

NOTES: These mechanical drawings are intended to illustrate the mechanical operation of the system in general. Individual projects will vary and these drawings may not show every single component that will be necessary in every instance. It is also important to check with local codes.

01	08/21/20	City Plan Check #01	LB
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KEY PLAN

STAMP



PROJECT
**Infinity Residence
 4403 Alta Mira Drive
 La Mesa, CA 91941**

TITLE
Hydronic System

PROJECT DZK-2018-01	DATE 11/27/2019
NUMBER P-204	SCALE

Radiantec SINCE 1979
HEATING CALCULATION

PROJECT NAME: Patricia Dziuk 55754

HEATED AREA	SUBMIT FOOTING	ENERGY FACTOR	TEMPERATURE DIFFERENCE (degrees F)	ESTIMATED FOOTING (BTU/Hour)	NET PROVIDED (BTU/Hour)
Street Level Zone 1	790	0.6	40	18960	27650
Lower Level Zone 2	1565	0.6	40	37560	62600
Pool Level Zone 3	445	0.5	40	8900	17800

Notes:

SOME IMPORTANT NOTES ABOUT FREE DESIGN ASSISTANCE

- A complete design for an underfloor radiant heating system would include a complete review of the plans, a study of State and Local Building codes, a detailed heat loss calculation, coordination with the builder, several site visits, coordination with the supplier of the heating unit, a written contract, and a fee of several thousand dollars.
- This free service is not to be confused with a complete design. It is intended to be useful to the customer for making preliminary decisions. This information is given in good faith, but Radiantec Company makes no warranty or assumes no liability for its accuracy.
- It is not possible for Radiantec Company to be aware of the ramifications of all State and Local building codes. Code compliance is the customer's responsibility. Radiantec Company will assist the customer in obtaining waivers or exceptions when new technology conflicts with applicable codes. Radiantec Company will not apply retroactive fees if exchanges are needed to meet applicable codes.

GENERAL NOTES

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH LOCAL STANDARDS AND THE APPLICABLE PROVISIONS OF THE 2016 CALIFORNIA BUILDING CODE (C.B.C.) AS AMENDED BY THE COUNTY OF SAN DIEGO.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE BEFORE STARTING WORK...
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
4. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF CONFLICT.
5. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THESE STRUCTURAL DRAWINGS.
6. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS.
7. OPENINGS, POCKETS, SLEEVES, BLOCK-OUTS, ETC SHALL NOT BE PLACED IN SLABS, BEAMS, GIRDERS, COLUMNS, WALLS, FOUNDATIONS, ETC. UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
8. NO PIPES OR DUCTS SHALL BE PLACED IN FOUNDATION SLABS UNLESS SPECIFICALLY SHOWN OR NOTED ON THESE STRUCTURAL DRAWINGS.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DETAILS FOR AVOIDING THE INTERFERENCE OF MATERIALS TO BE EMBEDDED IN CONCRETE INCLUDING BUT NOT LIMITED TO REINFORCING STEEL, MISCELLANEOUS STEEL AND CONDUITS.
10. PRIOR TO BEGINNING EXCAVATION, THE CONTRACTOR SHALL LOCATE EXISTING UTILITY SERVICES IN AREAS TO BE EXCAVATED.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES IN THE WORK AREA AND SHALL REPAIR ANY DAMAGE CAUSED BY HIS OR HER OPERATIONS AT HIS OR HER OWN COST.
12. MATERIALS SHALL BE EVENLY DISTRIBUTED IF PLACED ON FRAMED FLOORS AND ROOFS. LOADS SHALL NOT EXCEED ALLOWABLE LOADING FOR THE SUPPORTING MEMBERS AND THEIR CONNECTIONS.
13. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED.
14. THIS STRUCTURE IS DEPENDENT UPON DIAPHRAGM ACTION FOR LATERAL STABILITY.
15. THESE STRUCTURAL DRAWINGS ILLUSTRATE THE NEW STRUCTURAL MEMBERS, REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRED SPECIAL PROVISIONS DURING CONSTRUCTION OF THE STRUCTURAL MEMBERS.
16. REFER TO ARCHITECTURAL PLANS FOR FLOOR DEPRESSIONS, SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, AND NON-BEARING PARTITIONS.
17. PROVIDE A LIST OF PROPOSED SUBSTITUTIONS AND MANUFACTURER'S ICC ES REPORTS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
18. ELEVATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FROM FINISHED FLOOR.
19. ALL ASTM STANDARDS LISTED HEREIN, SHALL BE OF THE ISSUE LISTED IN THE CURRENT ANNUAL BOOK OF STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.
20. THE SPECIAL INSPECTOR MUST BE APPROVED BY THE COUNTY OF SAN DIEGO.
21. THE TESTING LABORATORY MUST BE APPROVED BY THE COUNTY OF SAN DIEGO.
22. THE CONCRETE SLABS ON GRADE HAVE NOT BEEN DESIGNED TO SUPPORT CONSTRUCTION EQUIPMENT, THEREFORE THE BUILDER IS RESPONSIBLE FOR THE DESIGN OF THE SLAB WHERE CONSTRUCTION EQUIPMENT IS TO BE PLACED ALONG WITH ANY SUPPORTING STRUCTURE INCLUDING RETAINING WALLS. ANY DAMAGE TO THE CONCRETE SLAB OR RETAINING WALLS AS A RESULT OF CONSTRUCTION EQUIPMENT IS THE RESPONSIBILITY OF THE BUILDER. IT IS THE BUILDER'S RESPONSIBILITY FOR THE REPAIR OF ANY DAMAGE INCLUDING ADDITIONAL DESIGN COSTS.

DESIGN CRITERIA

- 1. APPLICABLE CODES: 2016 CALIFORNIA BUILDING CODE
2. GRAVITY DESIGN LOADS:
A. ROOF DEAD LOAD: 33 PSF
B. GREEN ROOF DEAD LOAD: 53 PSF
C. CARPORT DEAD LOAD: 50 PSF
D. INTERIOR FLOOR DEAD LOAD: 43 PSF
E. TERRACE FLOOR DEAD LOAD: 34 PSF
F. ROOF TRELLIS DEAD LOAD: 12 PSF
G. EXTERIOR DECK DEAD LOAD: 7 PSF
H. ROOF LIVE LOAD: 20 PSF
I. GREEN ROOF LIVE LOAD: 20 PSF
J. FLOOR LIVE LOAD: 40 PSF
K. TERRACE LIVE LOAD: 60 PSF
3. SEISMIC DESIGN CRITERIA
A. SITE CLASS D
B. SEISMIC DESIGN CATEGORY D
C. Ss = 0.769
D. Si = 0.281
E. Smp = 0.917
F. Sml = 0.573
G. S05 = 0.611
H. S01 = 0.392
I. I = 1
J. R = 6.5 (LIGHT FRAME WOOD SHEAR WALLS)
K. Cs = 0.104W (EQUIVALENT LATERAL FORCE PROCEDURE)
4. WIND DESIGN CRITERIA:
A. RISK CATEGORY II
B. DESIGN WIND SPEED (Vw1): 110 MPH
C. EXPOSURE CATEGORY C
D. Gc = 0.18

SOIL CONDITIONS

- 1. THE FOUNDATION DESIGN IS BASED UPON A GEOTECHNICAL REPORT BY ACCUTECH ENGINEERING DATED MARCH 29, 2018 FOR SUBJECT PARCEL 501-041-22-0 WITH THE FOLLOWING REQUIREMENTS:
A. SOIL BEARING CAPACITY: 4000 PSF
WHEN FOOTING IS FOUND A MINIMUM 12" INTO APPROVED FOUNDATIONAL MATERIAL.
B. PASSIVE PRESSURE: 300 PSF/FT DEPTH
C. COEFFICIENT OF FRICTION: 0.35
D. ACTIVE PRESSURE (LEVEL BACKFILL): 40 PCF
E. RESTRAINED PRESSURE (BASEMENT WALLS): 60 PCF
F. INCREASE SOIL PRESSURES BY 20% FOR SEISMIC INERTIAL FORCES.
2. ALL SITEWORK, FOOTING EXCAVATIONS, GRADING, SITE PREPARATION, FILL, COMPACTION, WATERPROOFING, AND ALL FOUNDATION WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. ALTERNATE METHODS NOT DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO COMMENCING FOUNDATION WORK.
3. BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED INDEPENDENT TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.
4. FOUNDATIONS MAY BE EARTH FORMED IF SOIL CONDITIONS AND GEOTECHNICAL REPORT ALLOW.
5. INSTALL ALL UNDERSLAB PIPING AND ELECTRICAL WORK AND RECOMPACT ANY DISTURBED COMPACTED MATERIAL BEFORE PLACEMENT OF CONCRETE SLAB ON GRADE.
6. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT, THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND THE FOUNDATION EXCAVATIONS COMPLY WITH THE SOILS REPORT AND APPROVED PLANS

REINFORCING STEEL

- 1. WELDED WIRE FABRIC SHALL BE MADE OF BILLET STEEL, COLD DRAWING IN ACCORDANCE WITH ASTM A105 AND A82. LAP WELDED WIRE FABRIC A MINIMUM OF 12".
2. REINFORCING BARS SHALL BE ASTM 615 GRADE 60.
3. WELDING OF REINFORCING IS NOT PERMITTED.
4. ALL REINFORCING SHALL BE COLD BENT.
5. PROVIDE CLASS BE SPLICES IN REINFORCING, PROVIDE 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318 UNLESS SPECIFICALLY DETAILS. REFER TO TYPICAL DETAILS FOR REQUIRED LAP LENGTHS.
6. PROVIDE CONTINUOUS HORIZONTAL AND CONTINUOUS FOOTING REINFORCING WITH 90 DEGREE BENDS AT CORNERS AND INTERSECTIONS.
7. REINFORCING SHALL BE LOCATED 1 1/2 INCHES MINIMUM CLEAR FROM TOP OF SLAB.

CAST IN PLACE CONCRETE

- 1. ALL CONCRETE SHALL BE REGULAR WEIGHT (UNO), 150 PCF, MAX W/C = 0.5, MIN CEMENT CONTENT = 60 LB/CY, 3/4" AGGREGATE, (ASTM 33) NO PEA GRAVEL MIXES PERMITTED. CEMENT SHALL BE TYPE I OR TYPE V.
2. LIGHTWEIGHT CONCRETE SHALL BE 42 PCF, MAX.
3. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
FOUNDATIONS: 4000 PSI
SLAB ON GRADE: 4000 PSI
ALL OTHER CONCRETE: 4000 PSI
4. ANY ADMIXTURES USED SHALL NOT CONTAIN CALCIUM CHLORIDE. ADMIXTURES MAY BE USED FOR ALL CONCRETE.
5. CONCRETE PROTECTION FOR REINFORCEMENT, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
MIN COVER (INCHES)
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3
B. CONCRETE EXPOSED TO EARTH OR WEATHER NO. 6 THROUGH NO. 18 BARS: 2
NO. 5 BAR AND SMALLER: 1 1/2
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLAB, WALLS: NO. 14 AND NO. 18 BARS: 1 1/2
NO. 11 BAR AND SMALLER: 3/4
BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1 1/2
6. REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO THE PLACEMENT OF CONCRETE. STABBING OF INTO WET CONCRETE IS NOT PERMITTED.
7. CONCRETE MIXES MAY CONTAIN FLY ASH. THE FLY ASH SHALL CONFORM TO ASTM C618 CLASS F AND THE LOSS OF IGNITION SHALL BE LIMITED TO 2%. THE ADDITION RATE SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT. THE CONTRACTOR SHALL SUBMIT ALL CERTIFICATES SHOWING THE FLY ASH CONFORMS TO THE ABOVE CRITERIA.
8. WHERE CONTINUOUS BARS ARE CALLED OUT, PROVIDE TIED CONTACT SPLICES AS REQUIRED. STAGGER SPLICES OF ALTERNATE BARS BY THE FULL SPLICE LENGTH.
9. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE.
10. THE ENGINEER SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ALL CONCRETE PLACEMENT.
11. AGGREGATE FOR HARD ROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM 33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.

WOOD

- 1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR/LARCH, CONFORMING TO THE CBC STANDARD 23-1 USING CURRENT WHPA GRADING RULES, UNLESS OTHERWISE NOTED. EACH PIECE OF LUMBER SHALL BE GRADE MARKED.
HORIZONTAL FRAMING MEMBERS: THICKNESS 2" & 3": NO. 2 ALL OTHER HORIZONTAL MEMBERS: NO. 1, UNO.
VERTICAL FRAMING MEMBERS: 4x AND 6x POSTS: NO. 1 ALL OTHER VERTICAL MEMBERS: NO. 2
2. ALL PLYWOOD SHALL CONFORM TO UBC STANDARD 23-2 AND SHALL BE IDENTIFIED WITH APA GRADE MARK. SEE PLANS FOR THICKNESS.
ROOF SHEATHING: ... 5/8": STRUCTURAL I (24/16) OR ICBO EQUAL
WALL SHEATHING: ... 1/2": STRUCTURAL I (24/0) OR ICBO EQUAL
3. RUN LONG DIMENSION OF PLYWOOD PERPENDICULAR TO FRAMING MEMBERS. NAIL AS INDICATED ON PLANS WITH COMMON WIRE NAILS.
4. 2" SOLID BLOCKING SHALL BE PLACED BETWEEN ALL JOISTS AND RAFTERS AT SUPPORTS.
5. LAG SCREWS: PREDRILL WITH A BIT SIZE OF 65% OF THE SHANK DIAMETER FOR THE THREADED PORTION. LEAD HOLES SHALL BE THE SAME LENGTH AS THE UNTHREADED SHANK AND THE SAME DIAMETER AS THE SHANK. SCREW ALL LAGS INTO PLACE. CUT WASHERS SHALL BE PROVIDED UNDER HEADS WHICH BEAR ON WOOD.
6. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE UNLESS OTHERWISE DETAILED.
7. NO CHECKS OR SPLITS ALLOWED AT AREAS TO BE LOADED.
8. SEE SHEAR WALL SCHEDULE ON DRAWINGS FOR REQUIREMENTS FOR SHEAR WALLS.
9. ALL CONNECTORS SHALL BE BY SIMPSON STRONG-TIE COMPANY OR ICBO EQUAL.

MASONRY

- 1. REINFORCED MASONRY WORK AND MATERIALS SHALL CONFORM TO THE CURRENT VERSION OF TMS 402/2002.
2. CONCRETE BLOCK: ASTM C-90, GRADE N, MEDIUM WEIGHT, OPEN END UNITS COMPLYING TO ASTM C426 FOR SHRINKAGE AND DRYING. fm=1500 psi
3. MORTAR: ASTM C270 TYPE S WITH 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI PROVIDE BOND BEAM UNITS AT ALL HORIZONTAL REINFORCEMENT. fm = 1500 PSI ALL CMU SHALL BE LAID IN RUNNING BOND UNO.
4. GROUT: ASTM C478 WITH 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI. MAXIMUM AGGREGATE SIZE IS 3/8 INCH.
5. PROVIDE CONTINUOUS REINFORCED VERTICAL CELLS FULL HEIGHT AT ALL JAMB AND WALL CORNERS.
6. ALL MASONRY SHALL BE SOLID GROUTED PROVIDE BOND BEAM UNITS AT ALL HORIZONTAL REINFORCEMENT. ALL CMU SHALL BE LAID IN RUNNING BOND UNO.
7. REINFORCEMENT SPLICES: LAP 40 BAR DIAMETERS OR 24" WHICHEVER IS GREATER BAR DIAMETERS OR 1'-8", WHICHEVER IS GREATER.
8. VERTICAL REINFORCEMENT SHALL BE DOWELED TO THE SUPPORTING MEMBERS WITH THE SAME SIZE AND SPACING OF REINFORCEMENT AS CALLED FOR ON THE DRAWINGS OR THE STANDARD NOTES.
9. HORIZONTAL CONSTRUCTION JOINTS IN GROUT POUR SHALL BE MADE BY STOPPING THE GROUT 1" BELOW TOP OF STANDARD NOTES.
10. ALL GROUT SHALL BE VIBRATED WITH HIGH FREQUENCY INTERNAL MECHANICAL VIBRATING EQUIPMENT.
11. GROUTING OF WALLS, AT CONTRACTOR'S OPTION, SHALL COMPLY WITH THE CBC REQUIREMENTS FOR EITHER LOW OR HIGH RISE GROUTING.
12. ANCHORS, BOLTS, EMBEDMENTS, WALL INSERTS, ETC, SHALL BE TIED INTO PLACE PRIOR TO POUR, GROUTED SOLID IN POSITION, NO STABBING IS ALLOWED.
13. VERTICAL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO PLACEMENT OF GROUT. VERTICAL REINFORCING SHALL HAVE A MINIMUM GROUT COVER OF 1/2 INCH TO THE INSIDE FACE OF CMU AND A MINIMUM TOTAL COVER INCLUDING MASONRY OF 2 INCHES.
14. IF FOUNDATION DOWELS DO NOT LINE UP WITH A VERTICAL CMU CELL, DO NOT SLOPE DOWEL GREATER THAN ONE HORIZONTAL IN SIX VERTICAL. IF SLOPE EXCEEDS ONE IN SIX, PROVIDE NEW DOWEL EMBED INTO CONCRETE WITH MILT HY150 MAX EPOXY. CONTACT ENGINEER FOR PROPER EMBEDMENT OF REINFORCING INTO CONCRETE FOUNDATION. INSTALL UNDER CONTINUOUS INSPECTION.
15. PIPING OR CONDUIT EMBEDDED IN REINFORCED MASONRY SHALL NOT EXCEED 1 INCH IN DIAMETER AND LOCATION SHALL BE APPROVED BY ARCHITECT/ENGINEER.

STRUCTURAL GLUED LAMINATED TIMBERS

- 1. MATERIAL, MANUFACTURER AND QUALITY CONTROL SHALL BE IN CONFORMANCE WITH CURRENT VERSION OF ANSI/APC STANDARD A190.1 AND ASTM D 3737. DESIGN AND MANUFACTURER OF STRUCTURAL GLUED, LAMINATED TIMBER, MEMBERS SHALL BE MARKED WITH QUALITY MARK.
2. ALL GLULAM TIMBERS SHALL BE DOUGLAS FIR/LARCH 24F-V8 (E2.0)
3. AN A.I.T.C. CERTIFICATE OF COMPLIANCE FOR GLUED LAMINATED WOOD MEMBERS SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
4. ADHESIVE SHALL MEET THE REQUIREMENTS FOR WET CONDITIONS OF SERVICE, SUITABLE FOR EXTERIOR EXPOSURE CONDITIONS.
5. HOLES OR NOTCHES IN GLUED-LAMINATED BEAMS ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED.

STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
WIDE FLANGE SHAPES: A992 (FY = 50 KSI)
CHANNELS, ANGLES, PLATES, ETC.: A36 (FY = 36 KSI)
STRUCTURAL TUBE (HSS): A500 GRADE C (FY = 50 KSI)
STRUCTURAL PIPE: A53 GRADE B (FY = 35 KSI)
2. BOLTS SHALL CONFORM TO ASTM A 307, UNO. ALL BOLTS SHALL BE INSTALLED WITH CUT STEEL WASHERS. BOLT HOLES SHALL BE 1/16-INCH OVERSIZED.
3. ALL WELDING SHALL BE PERFORMED BY CERTIFIED OPERATORS UNDER THE SUPERVISION OF AN APPROVED FABRICATOR USING THE ELECTRIC SHIELDED ARC PROCESS AS FORMULATED BY THE AMERICAN WELDING SOCIETY.
4. STEEL SHALL BE IDENTIFIED BY HEAT OR MELT NUMBERS AND SHALL BE ACCOMPANIED BY TEST REPORTS.
5. AISC STANDARD BEAM CONNECTIONS SHALL BE USED FOR CONNECTIONS NOT SHOWN (AISC LATEST EDITION USING 3/4-INCH BOLTS.
6. ALL STEEL SHALL BE FABRICATED TO FIT TOGETHER PLUMB AND TRUE IN THE FIELD WITHOUT ALTERATION
7. ALL STRUCTURAL STEEL IS TO BE HOT DIP GALVANIZED. PROVIDE BOLTS, NUTS, AND WASHERS THAT ARE HOT DIP GALVANIZED ACCORDING TO ASTM A153 CLASS C.
8. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS OR AT A SHOP CERTIFIED TO DO SUCH WORK USING ELECTRIC ARC WELDING PROCESS AND SHALL CONFORM TO AISC AND AWS STANDARDS.
9. ALL TESTING AND WELDING OF STRUCTURAL STEEL AND ALL CERTIFICATION OF WELDERS SHALL BE PER AWS D1.1. REFER TO SPECIAL INSPECTION NOTES FOR ADDITIONAL WELDING REQUIREMENTS.
10. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE SEISMIC FORCE RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20°F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.
11. AN ERECTION PLAN PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER INCORPORATING ALL LOCAL, STATE AND FEDERAL SAFETY REQUIREMENTS SHALL BE SUBMITTED TO THE BUILDING INSPECTION DEPARTMENT OF THE CITY OF LA MESA.
12. SPLICING OF STRUCTURAL STEEL MEMBERS IS NOT ALLOWED.
13. STRUCTURAL STEEL SHALL BE CLEANED OF RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP OR WELDING.
14. DO NOT CUT ANY STRUCTURAL STEEL MEMBERS IN CONFLICT WITH THE WORK WITHOUT PRIOR APPROVAL BY THE ENGINEER UNLESS SPECIFICALLY SHOWN ON THE CONSTRUCTION DOCUMENTS.
15. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS FOR ENGINEERS REVIEW PRIOR TO FABRICATION.
16. ALL HOLES IN STEEL MEMBERS SHALL BE DRILLED OR PUNCHED. TORCH CUT HOLES ARE NOT ALLOWED.
17. TEMPORARY BRACING DESIGNED BY OTHERS SHALL BE REQUIRED TO ENSURE THE ALIGNMENT AND STABILITY OF THE STRUCTURAL STEEL DURING ERECTION AND SHALL REMAIN IN PLACE UNTIL PERMANENT CONDITIONS AS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE IN PLACE.
18. PROVIDE GROUT FOR BASE PLATES THAT IS NON-SHRINK, NON-METALLIC GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.

STEEL DECK

- 1. STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST STEEL DECK INSTITUTE DESIGN MANUAL.
2. STEEL DECK SHALL CONFORM TO A663 WITH MINIMUM YIELD STRENGTH OF 50 KSI.
3. WHERE PARTIAL PANELS ARE REQUIRED TO COMPLETE THE DECK INSTALLATION A THE PERIMETER OF THE STRUCTURE, PROVIDE CONTINUOUS CLOSURE SECTION TO FACILITATE DECK SUPPORT AND ATTACHMENT AS REQUIRED.
4. ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3 AND SHALL BE PERFORMED BY CERTIFIED SHEET WELDERS THOROUGHLY EXPERIENCED IN WELDING SHEET STEEL.
5. NO LOADS ARE PERMITTED TO BE SUSPENDED FROM ANY DECKING. ATTACHMENTS FOR CEILING, DUCTWORK, PIPING, CONDUIT, UTILITIES, LIGHTS, ETC.
6. TOP FLANGES OF BEAMS OR OTHER SUPPORTING ELEMENTS TO BE FREE OF RUST, MILL SCALE, DIRT, SAND, OR OTHER MATERIAL THAT WILL INTERFERE WITH THE WELDING OPERATION.
7. ALL WATER ON THE DECK OR BETWEEN THE DECK AND BEAMS MUST BE REMOVED PRIOR TO WELDING.
8. DECKING MUST REST TIGHTLY ON SUPPORTING MEMBERS.
9. WHEN WELDING THROUGH TWO THICKNESSES OF DECK MATERIAL OR WHERE A LAP JOINT IS REQUIRED, BURN A 1-3/4" DIAMETER HOLE THROUGH THE DECK SO THE STUD CAN BE PROPERLY SEATED ON THE BEAM.
10. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW BEFORE FABRICATION.
11. DECK SHALL BE GALVANIZED (G90) UNLESS NOTED OTHERWISE.
12. DECK SHALL HAVE CURRENT ICC ES REPORT DEMONSTRATING COMPLIANCE WITH THE BUILDING CODE AND CONTRACT DOCUMENTS.
13. PROVIDE A MINIMUM END BEARING OF 2 INCHES AT EXTERIOR SUPPORTS AND 4 INCHES AT INTERIOR SUPPORTS.
14. ALL DECK SHALL BE INSTALLED IN A DOUBLE SPAN CONDITION MINIMUM. SINGLE SPAN LAYOUT IS NOT PERMITTED.
15. DECK SHALL INCLUDE ANY MISCELLANEOUS CLOSURE PIECES, METAL SCREEDS, ETC. TO MAKE A COMPLETE JOB. MISCELLANEOUS COMPONENTS SHALL BE GALVANIZED (G90) AND SHALL MATCH THE THICKNESS OF THE DECK.

Table with 5 columns: WORK REQUIRING SPECIAL INSPECTION, ITEM DESCRIPTION AND LOCATION, DESIGN STRENGTH, NAME OF SPECIAL INSPECTOR, PHONE NUMBER OF SPECIAL INSPECTOR. Includes sections for SPECIAL INSPECTIONS REQUIRED BY CBC SECTION 1705 and various construction items like STEEL CONSTRUCTION, WELDING, FOUNDATIONS, etc.

SPECIAL INSPECTIONS

- 1. SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE, AS SUMMARIZED BELOW. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY THE BUILDING OFFICIAL.
2. SPECIAL INSPECTION OF FABRICATED ITEMS: SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE FABRICATOR IS REGISTERED AND APPROVED BY THE COUNTY OF SAN DIEGO AND IN ACCORDANCE WITH CBC 1704.2.5.1.
3. THE CONTRACTOR SHALL HIRE ALL SPECIAL INSPECTORS AND TESTING AGENCIES TO PERFORM SPECIAL INSPECTION AND TESTING WORK.
4. THE SPECIAL INSPECTOR MUST BE QUALIFIED AND CERTIFIED BY THE COUNTY OF SAN DIEGO TO PERFORM THE TYPES OF INSPECTION SPECIFIED, EXCEPTIONS:
A. SOILS INSPECTION BY THE SOILS ENGINEER OF RECORD
B. WHEN WAIVED BY THE BUILDING OFFICIAL.
5. SPECIALLY INSPECTED WORK THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE COUNTY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
6. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION TO THE BUILDING OFFICIAL AND AUTHORITY HAVING JURISDICTION.
7. A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE FIELD INSPECTION DIVISION.
8. CONCRETE CONSTRUCTION (PERIODIC INSPECTION)
A. REINFORCING STEEL
B. ANCHOR BOLTS
C. CONCRETE MIX DESIGN
D. FORMWORK
9. CMU CONSTRUCTION (PERIODIC INSPECTION)
A. REINFORCING STEEL
B. ANCHOR BOLTS
10. WOOD CONSTRUCTION (PERIODIC INSPECTION)
A. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF WOOD SHEARWALLS, DIAPHRAGMS, CHORDS, DRAGS, STRAPS, AND HOLDDOVNS.
11. SOILS (PERIODIC INSPECTION, UNO)
A. VERIFICATION OF BEARING MATERIAL
B. VERIFICATION EXCAVATIONS ARE OF PROPER DEPTH AND REACH PROPER MATERIAL.
C. CLASSIFICATION AND TESTING OF COMPACTED FILL.
D. VERIFICATION OF PROPER FILL MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL (CONTINUOUS INSPECTION)
E. SUBGRADE AND VERIFICATION THAT SITE HAS BEEN PROPERLY PREPARED.
F. RETAINING WALL BACKFILL
12. STEEL CONSTRUCTION
A. FIELD WELDING

ALL RIGHTS RESERVED. THE INCLUDED DESIGN, DEAIL, IMAGES AND DRAWINGS EMBEDDED THEREIN ARE THE PROPERTY OF A.I.B.M AND SHALL NOT BE REPRODUCED, DISCLOSED OR DISSEMINATED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED. IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF A.I.B.M.

Table with 4 columns: NO, DATE, REASON FOR ISSUE, CHK. Contains a log of project issues and resolutions.

Project Status

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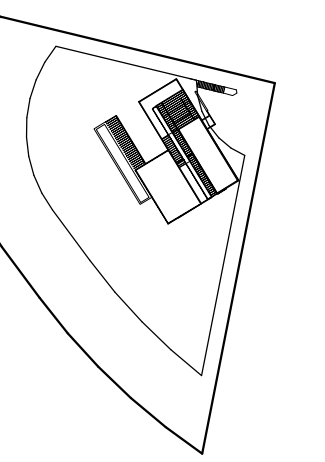
CONSULTANT



CLIENT

o.lbm

KEY PLAN



STAMP



PROJECT

INFINITY RESIDENCE

TITLE

STRUCTURAL NOTES

PROJECT

W0103

DATE

09/11/23

SCALE

12" = 1'-0"

ABBREVIATIONS

&	AND	MFR	MANUFACTURER
@	AT	MIN	MINIMUM
AB	ANCHOR BOLT	MISC	MISCELLANEOUS
ABV	ABOVE	MLLW	MEAN LOWER LOW WATER
AC	ASPHALT CONCRETE	MTL	METAL
AC	AIR CONDITIONING	(N)	NEW
ADDL	ADDITIONAL	N/A	NOT APPLICABLE
ALT	ALTERNATE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
ATR	ALL THREAD ROD	NIC	NOT IN CONTRACT
APPROX	APPROXIMATE	NLS	NAILING
ARCH	ARCHITECTURAL	NO, (#)	NUMBER
B/	BOTTOM OF	NS	NEAR SIDE
BF	BRACED FRAME	NTS	NOT TO SCALE
BLDG	BUILDING	OC	ON CENTER
BLK	BLOCKING(S)	OD	OUTSIDE DIAMETER
BLKD	BLOCKED	OH	OPPOSITE HAND
BLW	BELOW	OPNG	OPENING
BM	BEAM	OPP	OPPOSITE
BN	BOUNDARY NAILING	PC	PIECE
BOF	BOTTOM OF FOOTING	P/C	PRECAST
BRG	BEARING	PCC	PRECAST CONCRETE
BTM, (B)	BOTTOM	PL	PLATE
BTWN	BETWEEN	PLYWD	PLYWOOD
C=	CAMBER	PLF	POUNDS PER LINEAR FOOT
CIP	CAST IN PLACE	PNL	PANEL
CJ	CENTRAL JOINT	P/S	PRESTRESS(ED)
CL	CENTER LINE	PSF	POUNDS PER SQUARE FOOT
CLG	CEILING	PSI	POUNDS PER SQUARE INCH
CLR	CLEAR(ANCE)	PT	PRESSURE TREATED
CNTR	CENTER(ED)	CONCRETE MASONRY UNIT	
CMU	CONCRETE MASONRY UNIT	COL	COLUMN
COL	COLUMN	R	RADIUS
CONC	CONCRETE	RBS	REDUCED BEAM SECTION
CONN	CONNECTION(OR)	RCP	REINF CONC PIPE
CONST	CONSTRUCTION	REF	REFERENCE
CONT	CONTINUOUS	REINF	REINFORCE(NG)MENT
CSK	COUNTERSINK	REQD	REQUIRED
CY	CUBIC YARD(S)	RF	ROOF
		RO	ROUGH OPENING
		RR	RAFTER RAFTER
d	PENNY(NAILS)	RTU	ROOF TOP UNIT
DBL	DOUBLE	RW	RETAINING WALL
DEPT	DEPTH	RWD	REDWOOD
DIA, Ø	DIAMETER		
DIR	DIRECTION		
DO	DITTO	SC	SHEAR CONNECTOR
DOAS	DEDICATED OUTSIDE AIR SYSTEM	S CRIT	SUB CRITICAL
DWG	DRAWING(S)	SCHED	SCHEDULE
DWL	DOWEL(S)	SDI	STEEL DECK INSTITUTE
		SDS	SELF DRILLING SCREW
(E)	EXISTING	SECT	SECTION
EA	EACH	SHT	SHEET
EF	EACH FACE	SHTG	SHEATHING
EJ	EXPANSION JOINT	SIM	SIMILAR
EL	ELEVATION	SMS	SHEET METAL SCREW
ELEC	ELECTRICAL	SOG	SLAB ON GRADE
ELEV	ELEVATOR	SPCG	SPACING
EMBED	EMBED(ED)MENT	SPEC	SPECIFICATION(S)
EN	EDGE NAILING	SPN	SILL PLATE NAILING
EQ	EQUAL	SQ	SQUARE
EQUIP	EQUIPMENT	STD	STANDARD
ESR	EVALUATION SERVICE REPORT	STGR	STAGGER(ED)
ES	EACH SIDE	STIFF	STIFFENER
EW	EACH WAY	STIR	STIRRUP(S)
EXIST	EXISTING	STL	STEEL
EXP	EXPANSION	STRUCT	STRUCTURAL
EXT	EXTERIOR	SYMM	SYMMETRICAL
		T, TO	TOP OF
FDN	FOUNDATION	T&B	TOP & BOTTOM
FF	FINISHED FLOOR	T&G	TONGUE & GROOVE
FIN	FINISHED	TC	TOP OF CURB
FLR	FLOOR	TG	TAPERED GIRDER
FLNG	FLANGE	THK	THICK(NESS)
FN	FIELD NAILING	THRD	THREADED
FO	FACE OF	TN	TOE NAILING
FOC	FACE OF CONCRETE	TOB, T/BM	TOP OF BEAM
FOM	FACE OF MASONRY	TOC, T/CONC	TOP OF CONCRETE
FOS	FACE OF STUD	TOF, T/FTG	TOP OF FOOTING
FP	FULL PENETRATION	TOP	TOP, T/PARAPET
FRMG	FRAMING	TOS, T/STL	TOP OF STEEL
FS	FAR SIDE	TOT	TOTAL
FT	FOOT(FEET)	TOW	TOP OF WALL
FTG	FOOTING	TPN	TOP PLATE NAILING
FV	FIELD VERIFY	TRANS	TRANSVERSE
GA	GUAGE(GAGE)	TS	TUBING (TUBE STEEL)
GALV	GALVANIZED	TSG	TAPERED STEEL GIRDER
GL	GLUE LAMINATE	TYP	TYPICAL
GLB	GLUE LAMINATED BEAM		
GLC	GLUE LAMINATED COLUMN	UNBLKD	UNBLOCKED
GRD	GRADE	UNO	UNLESS OTHERWISE NOTED
GYP	GYPSUM		
		VERT, (V)	VERTICAL
HD	HOLDDOWN	VRF	VARIABLE REFRIGERANT FLOW
HDG	HOT DIPPED GALVANIZED		
HDR	HEADER	W	WIDTH (WIDE)
HGR	HANGER	W/	WITH
HK	HOOK	WD	WOOD
HORIZ, (H)	HORIZONTAL	WHS	WELDED HEADED STUD
HR	HOUR	WO	WITHOUT
HSS	HOLLOW STRUCTURAL SECTION	WP	WORK POINT
HT	HEIGHT	WT	WEIGHT
		WTS	WELDED THREADED STUD
ICC	INTERNATIONAL CODE COUNCIL	WWF	WELDED WIRE FABRIC
ID	INSIDE DIAMETER		
IS	ISOLATION JOINT	X-STG	EXTRA STRONG
IN	INCH(ES)	XX-STG	DOUBLE EXTRA STRONG
INT	INTERIOR		
		JOIST	JOIST
JST	JOIST	JOINT	JOINT
L	LONG (LENGTH)		
LB	POUND(S)		
LG	LONG		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LONG	LONGITUDINAL		
LWT	LIGHTWEIGHT		
		MASONRY	MASONRY
MATL	MATERIAL	MAX	MAXIMUM
MB	MACHINE BOLT	MECH	MECHANICAL
MECH	MECHANICAL	MEZZ	MEZZANINE

TABLE 2304.9.1 - FASTENING SCHEDULE 2016 CALIFORNIA BUILDING CODE		
CONNECTION	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
2. BRIDGING TO JOIST	(2) 8d COMMON (2 1/2"x0.131") (2) 3"x0.131" NAILS (2) 3" 14 GAGE STAPLES	TOENAIL; EACH END
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d COMMON (2 1/2"x0.131")	FACE NAIL
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST	(3) 8d COMMON (2 1/2"x0.131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d COMMON (3 1/2"x0.162")	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d (3 1/2"x0.135") AT 16" OC 3"x0.131" NAILS AT 8" OC 3" 14 GAGE STAPLES AT 12" OC	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	(3) 16d (3 1/2"x0.135") AT 16" OC (4) 3"x0.131" NAILS AT 16" OC (4) 3" 14 GAGE STAPLES PER 16"	BRACED WALL PANEL
7. TOP PLATE TO STUD	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	END NAIL
8. STUD TO SOLE PLATE	(4) 8d COMMON (2 1/2"x0.131") (4) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
9. TOP PLATE TO STUD	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	END NAIL
10. DOUBLE TOP PLATES	16d (3 1/2"x0.135") AT 24" OC 3"x0.131" NAILS AT 8" OC 3" 14 GAGE STAPLES AT 8" OC	FACE NAIL
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	16d (3 1/2"x0.135") AT 16" OC 3"x0.131" NAILS AT 12" OC 3" 14 GAGE STAPLES AT 12" OC	TYPICAL FACE NAIL
12. RIM JOIST TO TOP PLATE	(8) 16d COMMON (3 1/2"x0.162") (12) 3"x0.131" NAILS (12) 3" 14 GAGE STAPLES	LAP SPLICE
13. TOP PLATES, LAPS AND INTERSECTIONS	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
14. CONTINUOUS HEADER, TWO PIECES	8d (2 1/2"x0.131") AT 6" OC 3"x0.131" NAILS AT 8" OC 3" 14 GAGE STAPLES AT 6" OC	TOENAIL
15. CEILING JOISTS TO PLATE	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL
16. CONTINUOUS HEADER TO STUD	16d COMMON (3 1/2"x0.162")	16" OC ALONG EDGE
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	(3) 8d COMMON (2 1/2"x0.131") (5) 3"x0.131" NAILS (9) 3" 14 GAGE STAPLES	TOENAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	(3) 16d COMMON (3 1/2"x0.162") MINIMUM, (TABLE 2308.10.4.1) (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	(2) 8d COMMON (2 1/2"x0.131") (2) 3"x0.131" NAILS (2) 3" 14 GAGE STAPLES	FACE NAIL
21. 1"x8" SHEATHING TO EACH BEARING	(3) 8d COMMON (2 1/2"x0.131")	FACE NAIL
22. WIDER THAN 1"x8" SHEATHING TO EA BEARING	(3) 8d COMMON (2 1/2"x0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162") 3"x0.131" NAILS 3" 14 GAGE STAPLES	24" OC 16" OC 16" OC
24. BUILT-UP GIRDERS AND BEAMS	20d (4"x0.192") AT 32" OC 3"x0.131" NAILS AT 24" OC 3" 14 GAGE STAPLES AT 24" OC	FACE NAIL AT TOP AND BOTTOM STAGGERD ON OPPOSITE SIDES
25. 2" PLANKS	(2) 20d (4"x0.192") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL AT ENDS AND AT EACH SPLICE
26. COLLAR TIE TO RAFTER	16d COMMON (3 1/2"x0.162")	AT EACH BEARING
27. JACK RAFTER TO HIP	(3) 10d COMMON (3"x0.148") (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	TOENAIL
28. ROOF RAFTER TO 2x RIDGE BEAM/BOARD	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL
29. JOIST TO BAND JOIST	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
30. LEDGER STRIP	(3) 16d COMMON (3 1/2"x0.162") (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL

TABLE 2304.9.1 - FASTENING SCHEDULE 2016 CALIFORNIA BUILDING CODE		
CONNECTION	FASTENING	LOCATION
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6d ¹ 2 3/8"x0.113" NAIL ^a 1 3/4" 16 GAGE ^b	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	19/32" TO 3/4"	8d ^c OR 6d ^d 2 3/8"x0.113" NAIL ^e 2" 16 GAGE ^f
	7/8" TO 1" 1 1/8" TO 1 1/4"	8d ^c 10d ^g OR 8d ^d
32. PANEL SIDING (TO FRAMING)	1/2" OR LESS 6d ^c 5/8"	
33. FIBERBOARD SHEATHING ^g	1/2"	NO. 11 GAGE ROOFING NAIL ^h 6d COMMON NAIL (2"x0.113") NO. 16 GAGE STAPLE
	25/32"	NO. 11 GAGE ROOFING NAIL ^h 8d COMMON NAIL (2 1/2"x0.131") NO. 16 GAGE STAPLE ⁱ
34. INTERIOR PANELING	1/4" 3/8"	4d ^c 6d ^c

- FOR SI: 1 INCH = 25.4 MM.
- COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
 - NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
 - COMMON OR DEFORMED SHANK (6d-2"x0.113"; 8d-2 1/2"x0.131"; 10d-3"x0.148").
 - COMMON (6d-2"x0.113"; 8d-2 1/2"x0.131"; 10d-3"x0.148").
 - DEFORMED SHANK (6d-2"x0.113"; 8d-2 1/2"x0.131"; 10d-3"x0.148").
 - CORROSION-RESISTANT SIDING (6d-1 7/8"x0.106"; 8d-2 3/8"x0.128") OR CASING (6d-2"x0.099"; 8d-2 1/2"x0.113") NAIL.
 - FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
 - CORROSION-RESISTANT ROOFING NAILS WITH 7/16-INCH DIAMETER HEAD AND 1 1/2-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 3/4-INCH LENGTH FOR 25/32-INCH SHEATHING.
 - CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16-INCH CROWN AND 1 1/8-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 1/2-INCH LENGTH FOR 25/32-INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
 - CASING (1 1/2"x0.080) OR FINISH (1 1/2"x0.072) NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
 - PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
 - FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2"x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
 - STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16-INCH.
 - FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
 - FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
 - FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

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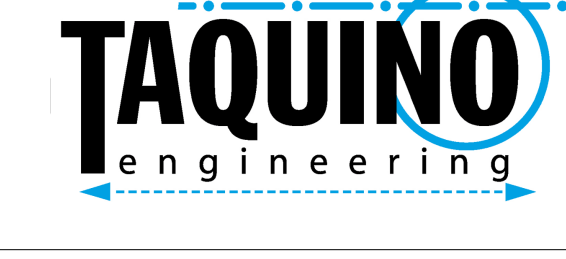
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6	08/21/23	Bulletin 01	
7	12/04/23	Bulletin 01 Reissue	
8	02/10/24	Plan Review Response	

Project Status

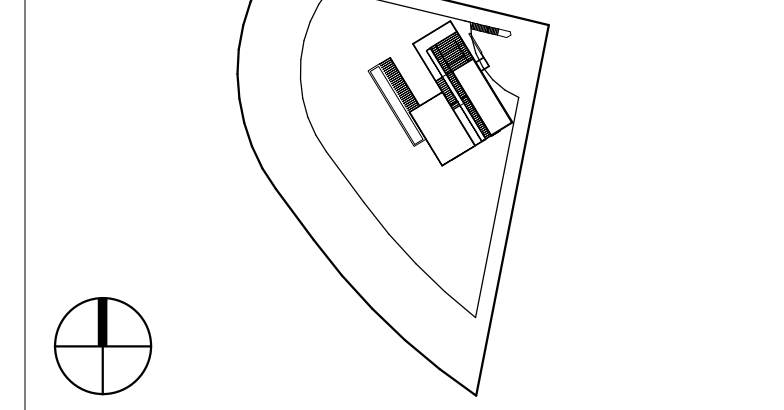
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PROJECT
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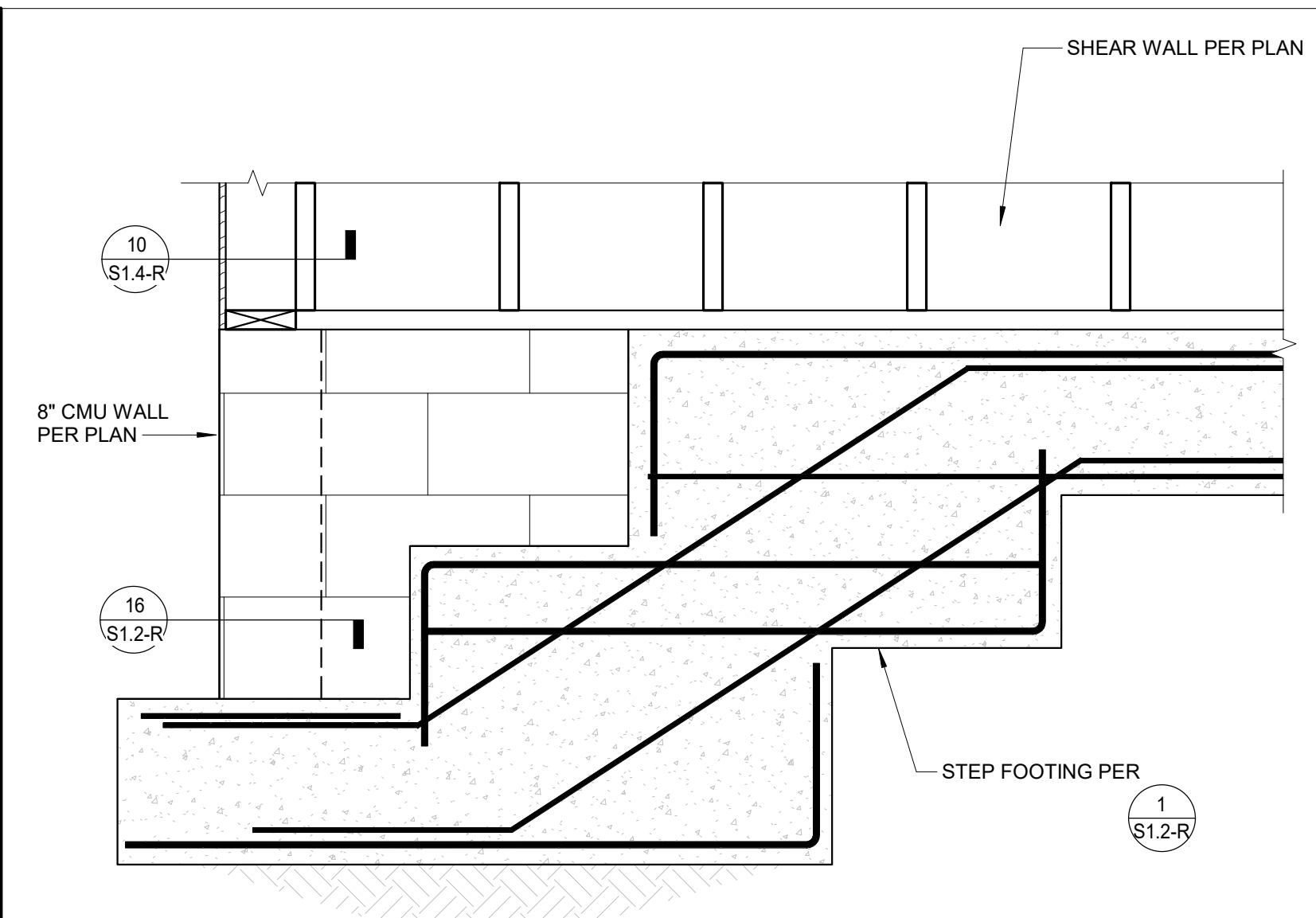
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STRUCTURAL NOTES

PROJECT
W0103

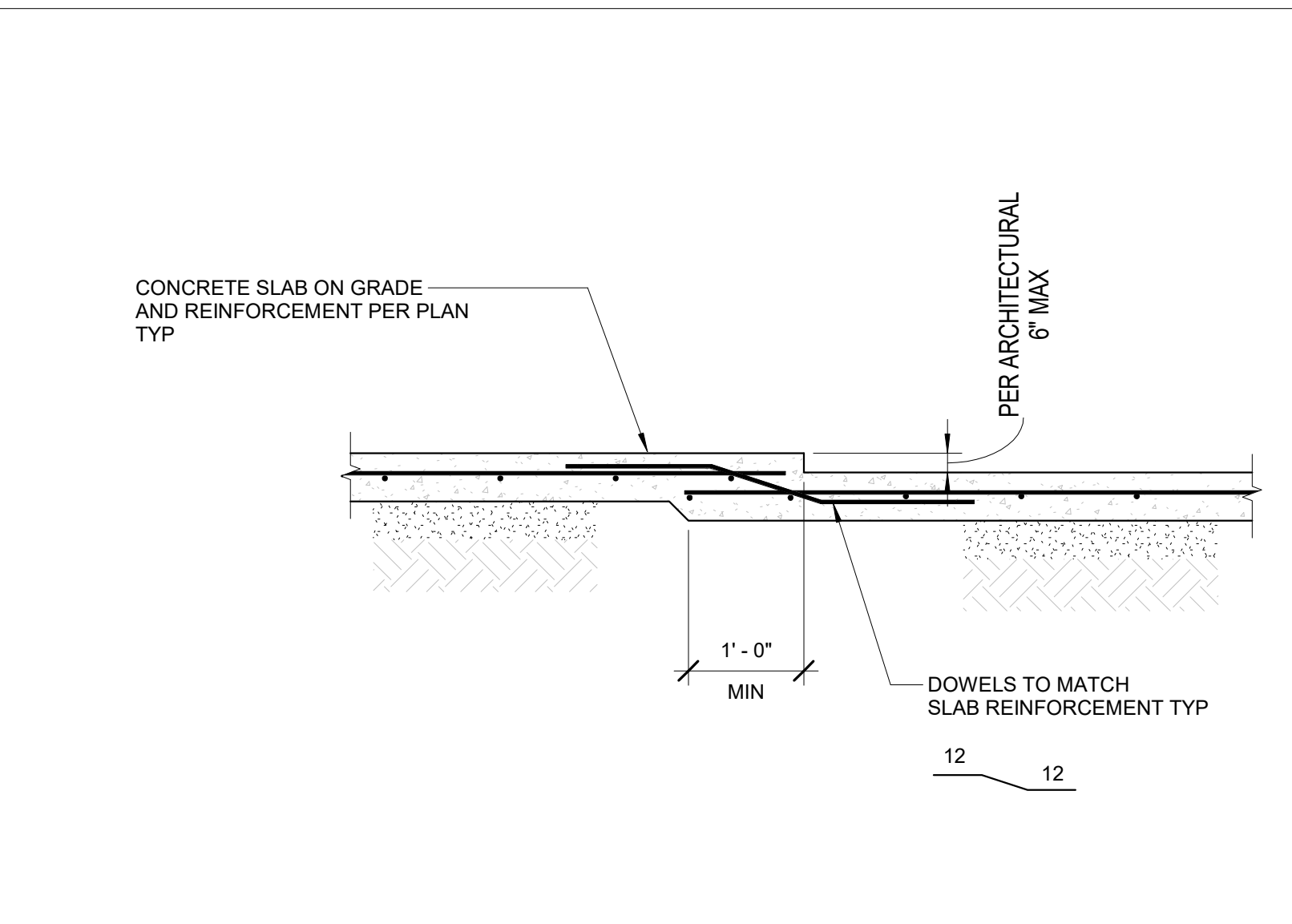
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SCALE

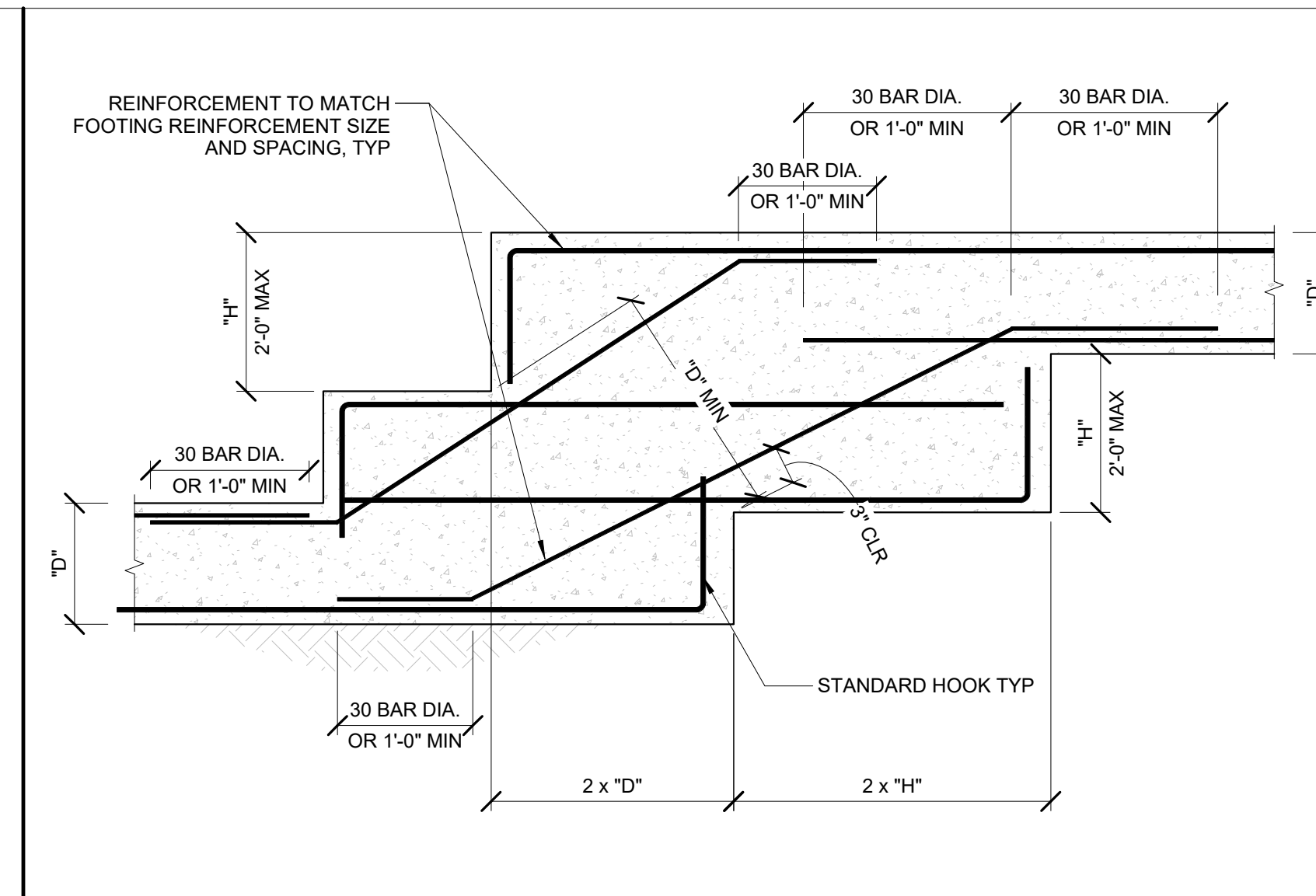
REVISION
S1.1-R



9 STEPPED STEM WALL
SCALE: 1" = 1'-0"



5 TYPICAL SLAB DEPRESSION
SCALE: 3/4" = 1'-0"



1 CONTINUOUS FOOTING STEP
SCALE: 3/4" = 1'-0"

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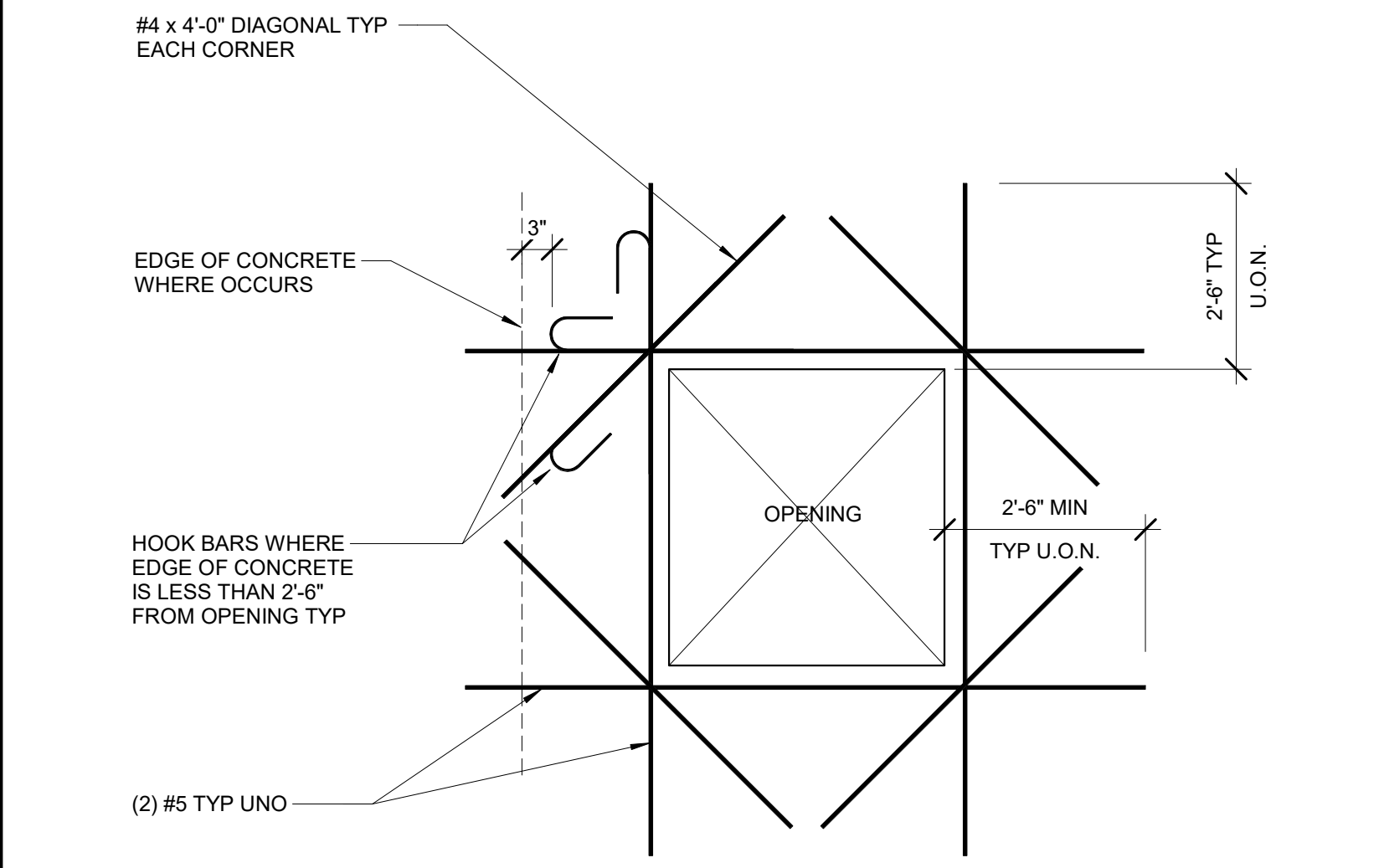
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CONCRETE LAP SPLICES PER ACI 318 (INCHES)

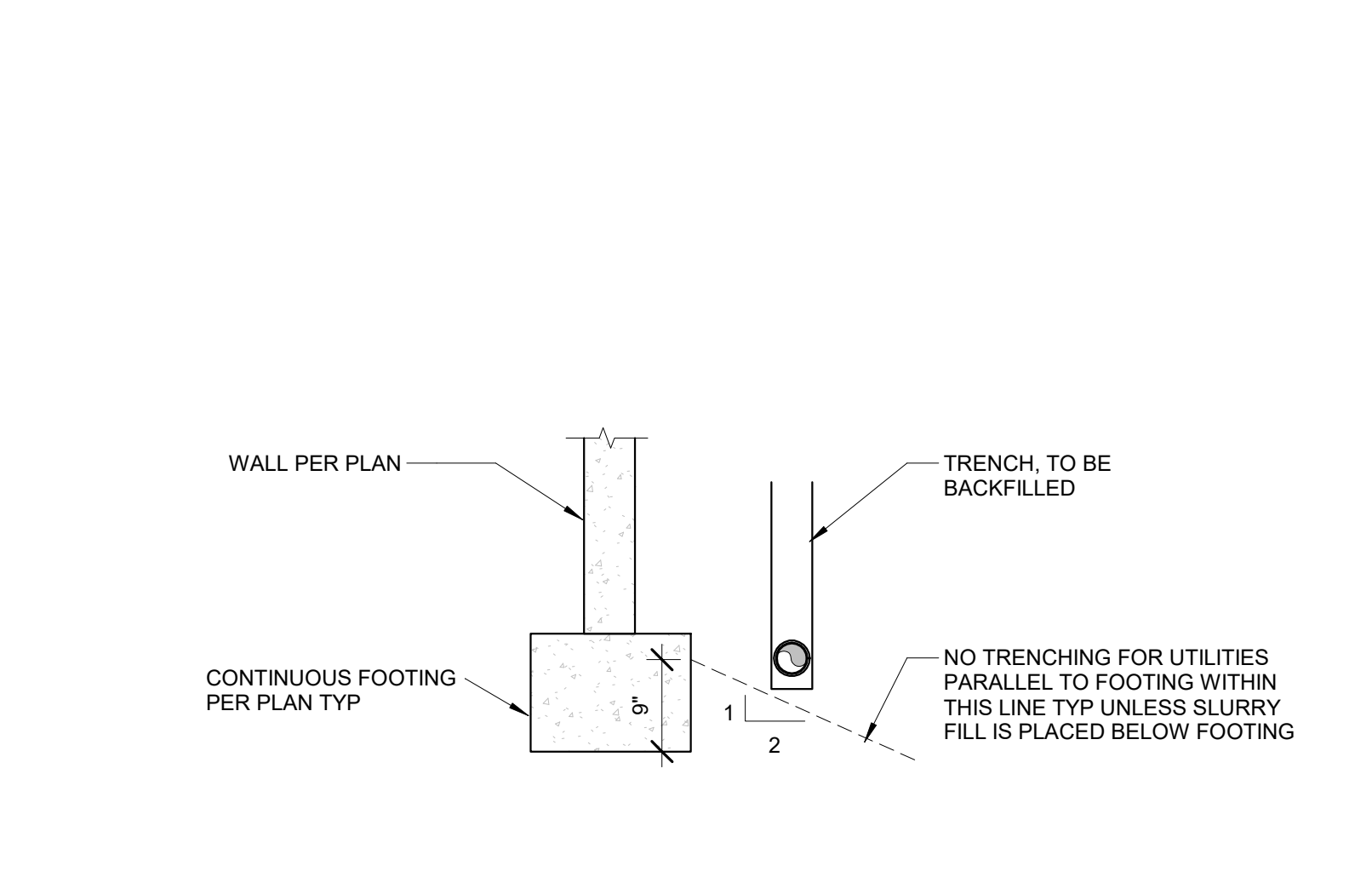
BAR SIZE	LAP CLASS	f _c =3000 psi	f _c =4000 psi	f _c =5000 psi
3	B	24	24	24
4	B	29	25	24
5	B	36	31	28
6	B	43	37	34
7	B	63	54	49
8	B	72	62	56
9	B	81	70	63
10	B	91	79	71
11	B	101	87	78

- NOTES:**
- TABULATED VALUES ARE FOR NORMAL WEIGHT CONCRETE. DIVIDE BY 0.75 FOR LIGHTWEIGHT CONCRETE.
 - TABULATED VALUES ARE FOR UNCOATED BARS.
 - TABULATED VALUES ASSUME CLEAR COVER IS AT LEAST 1 BAR DIAMETER AND CLEAR SPACING IS AT LEAST 2 BAR DIAMETERS.
 - FOR HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE BARS, MULTIPLY VALUES BY 1.3.
 - BARS LARGER THAN #11 SHALL NOT BE LAP SPLICED.
 - BUNDLED BARS ARE NOT COVERED BY THIS SCHEDULE.

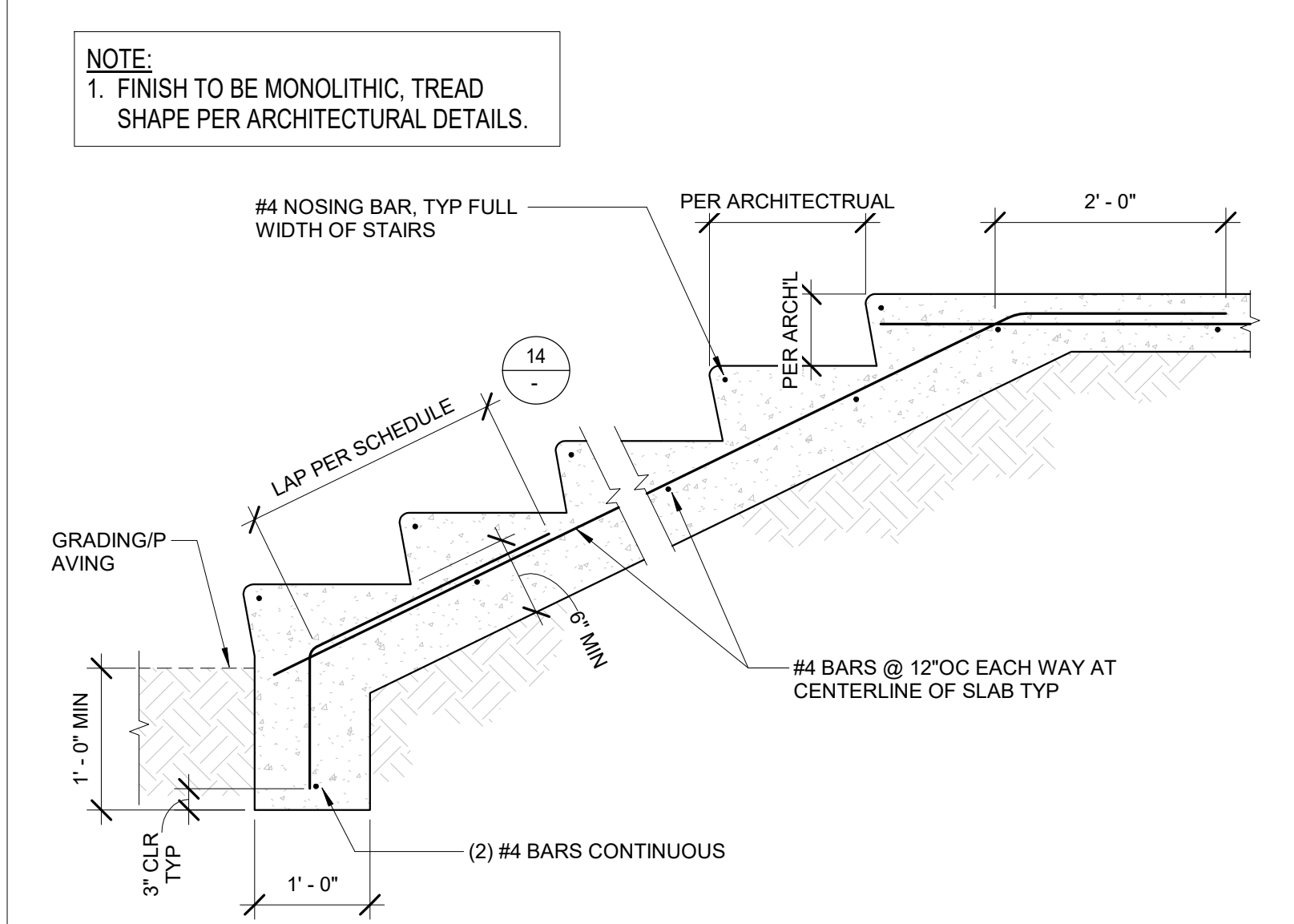
14 TYPICAL CONCRETE LAP SPLICE SCHEDULE
SCALE: 1/2" = 1'-0"



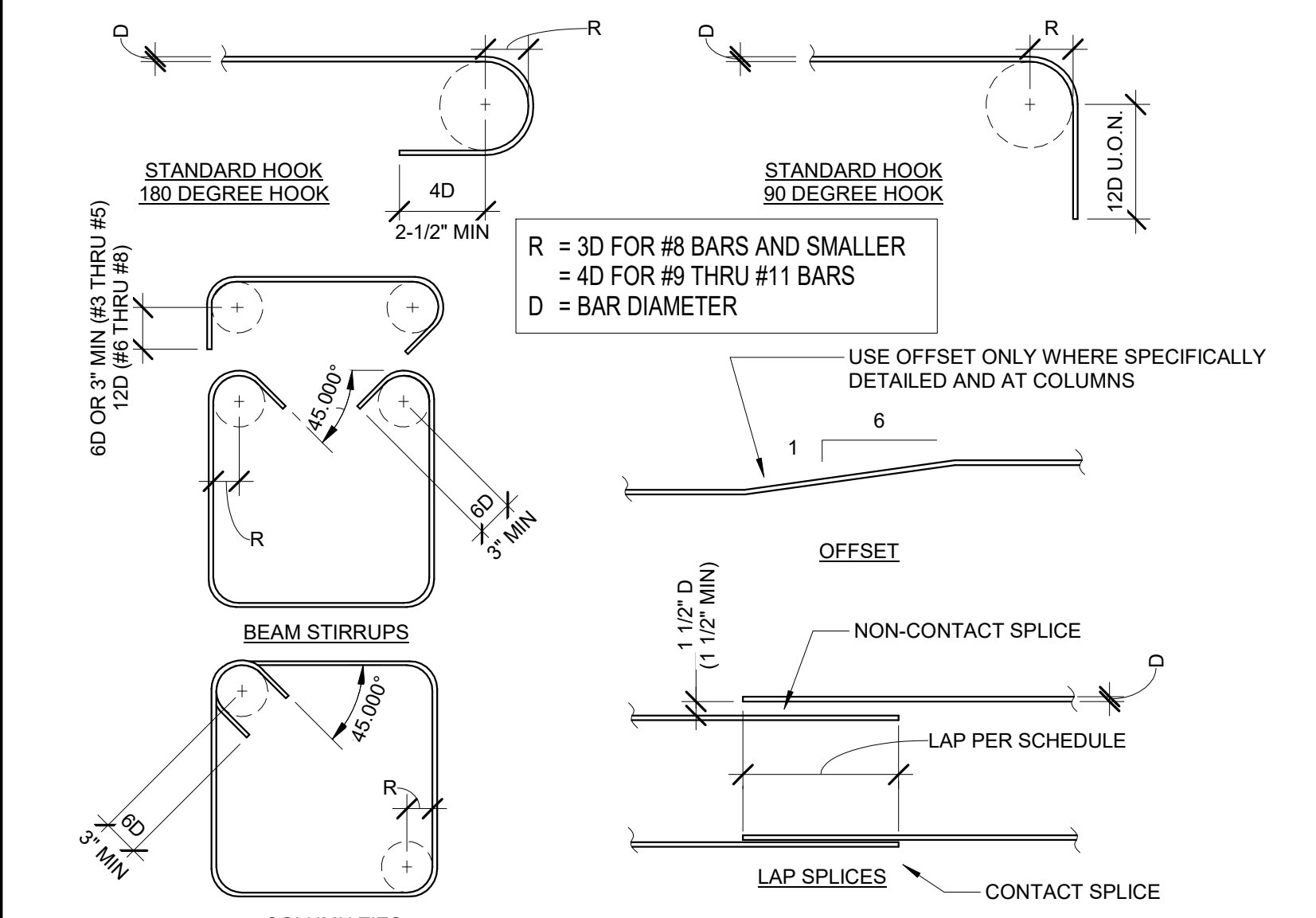
10 TYPICAL REINFORCEMENT AT NON-STRUCTURAL SLAB
SCALE: 3/4" = 1'-0"



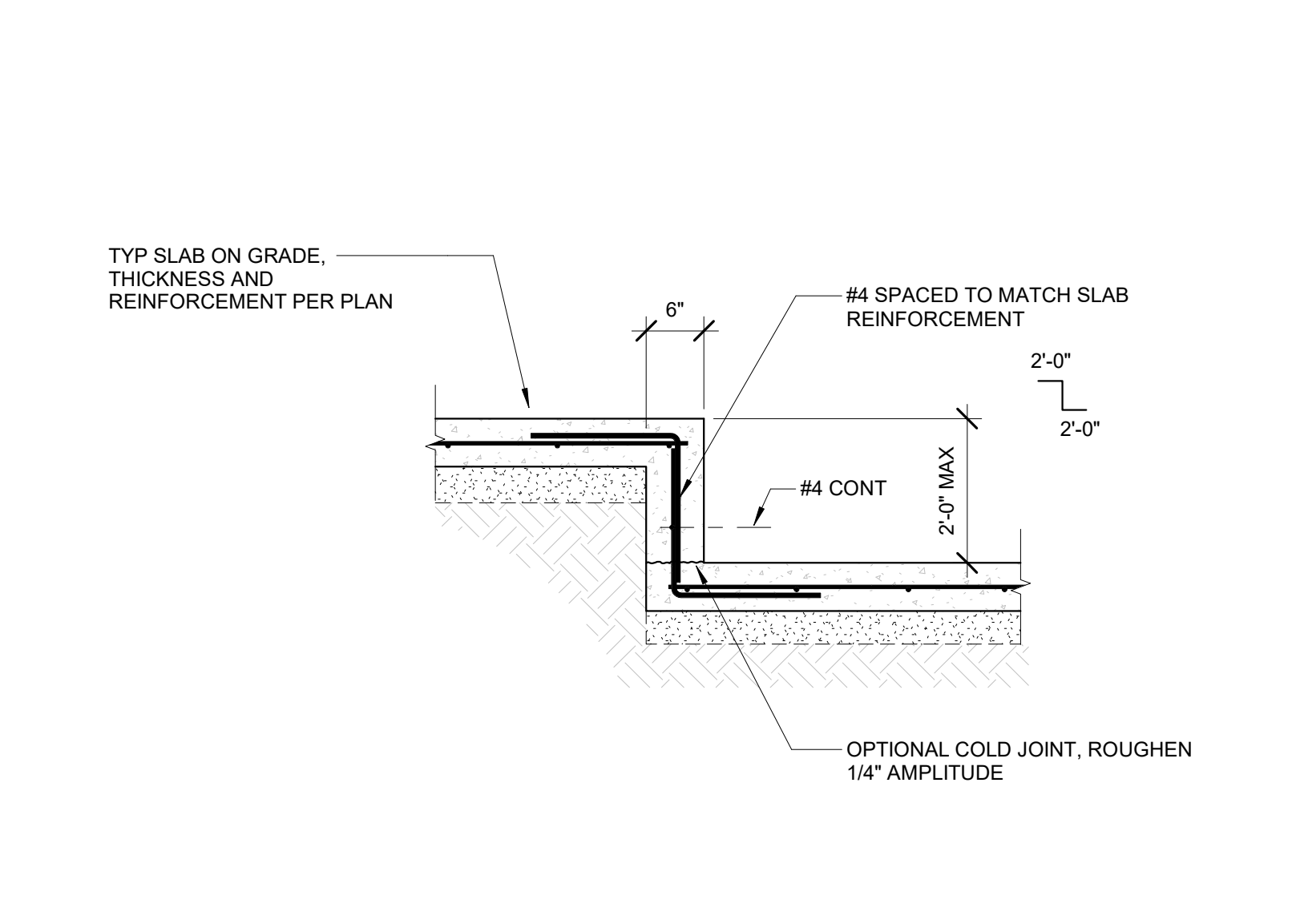
2 PIPES AND TRENCHES AT BUILDING FOOTING
SCALE: 3/4" = 1'-0"



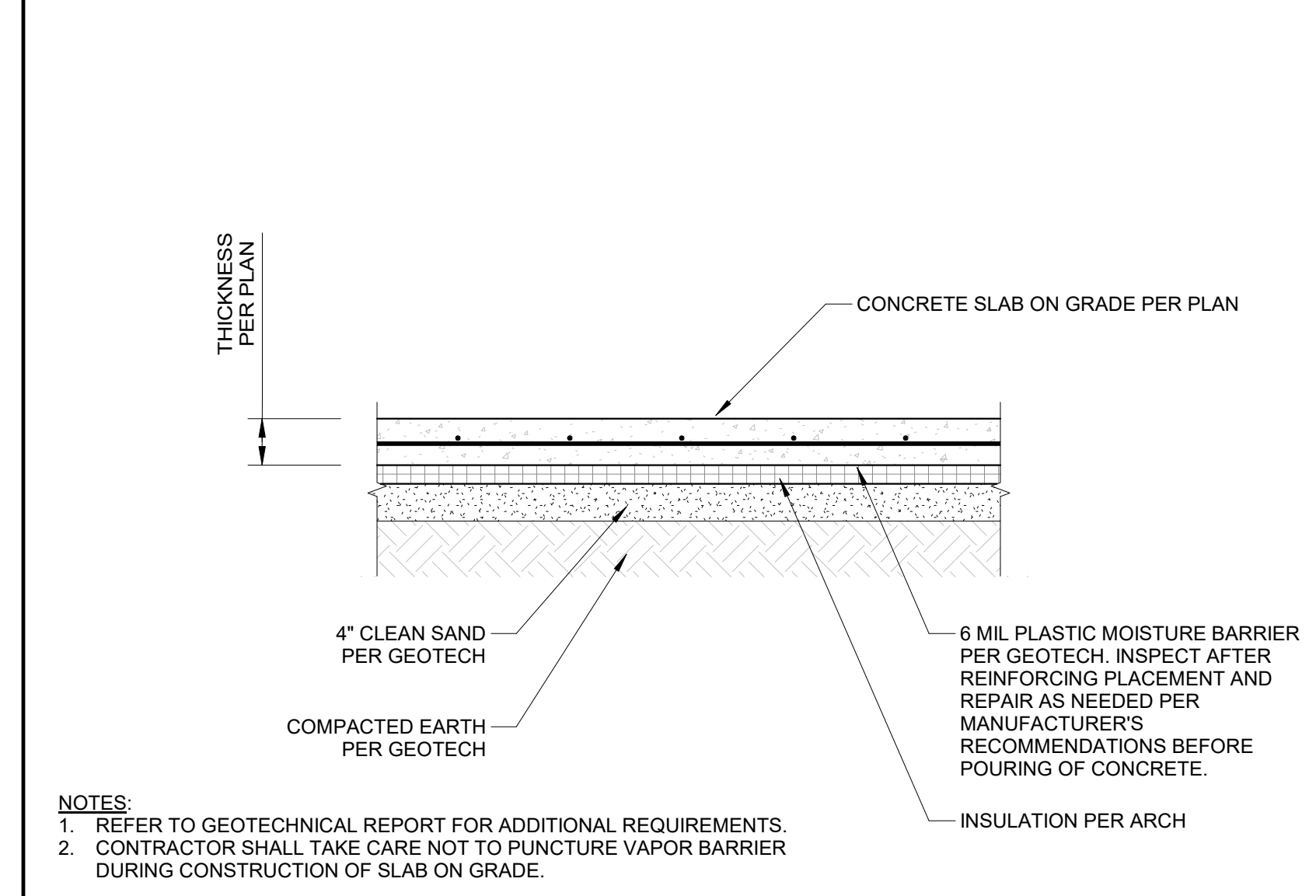
15 CONCRETE STAIR ON GRADE
SCALE: 3/4" = 1'-0"



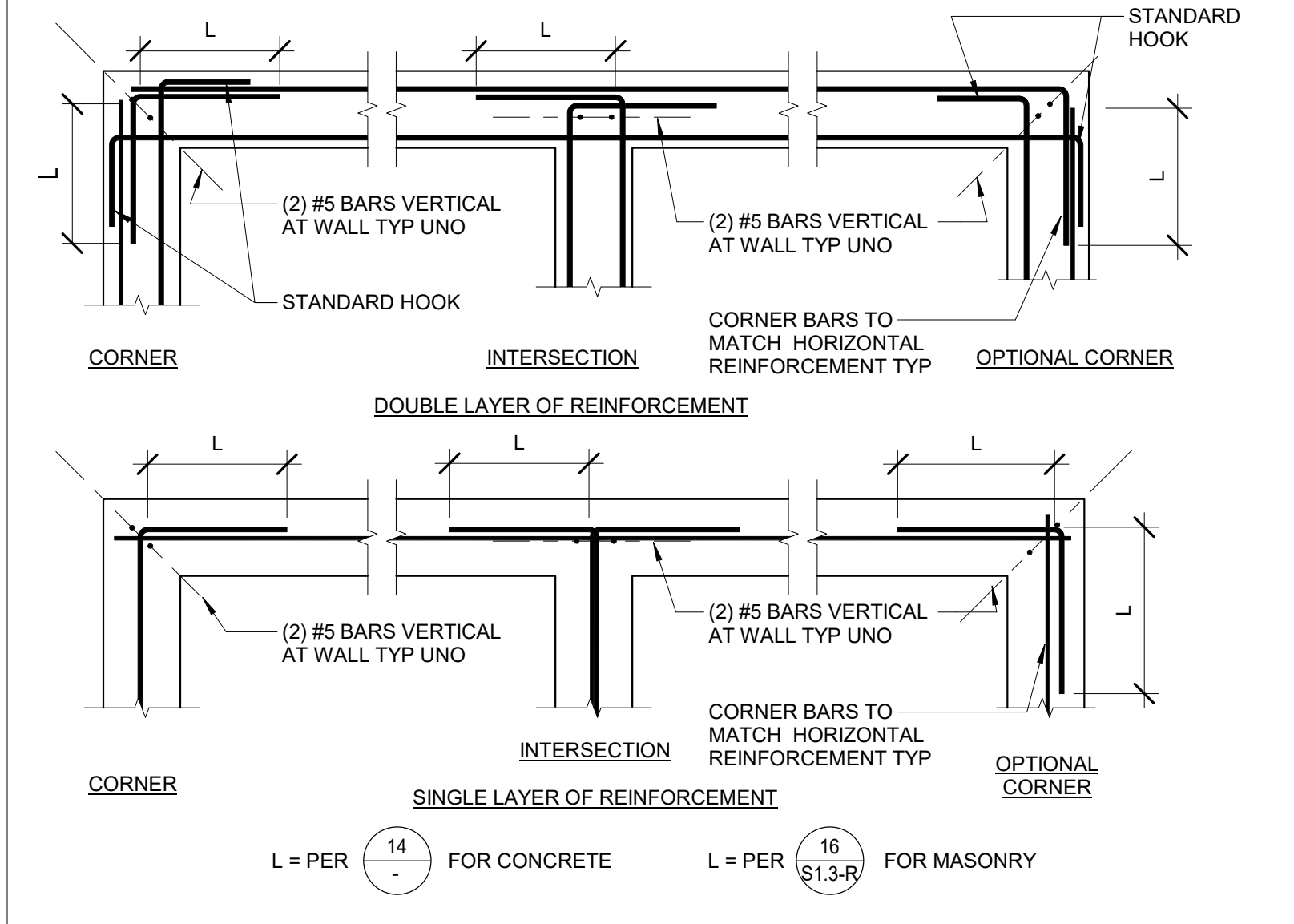
11 TYPICAL REINFORCEMENT BENDS
SCALE: 3/4" = 1'-0"



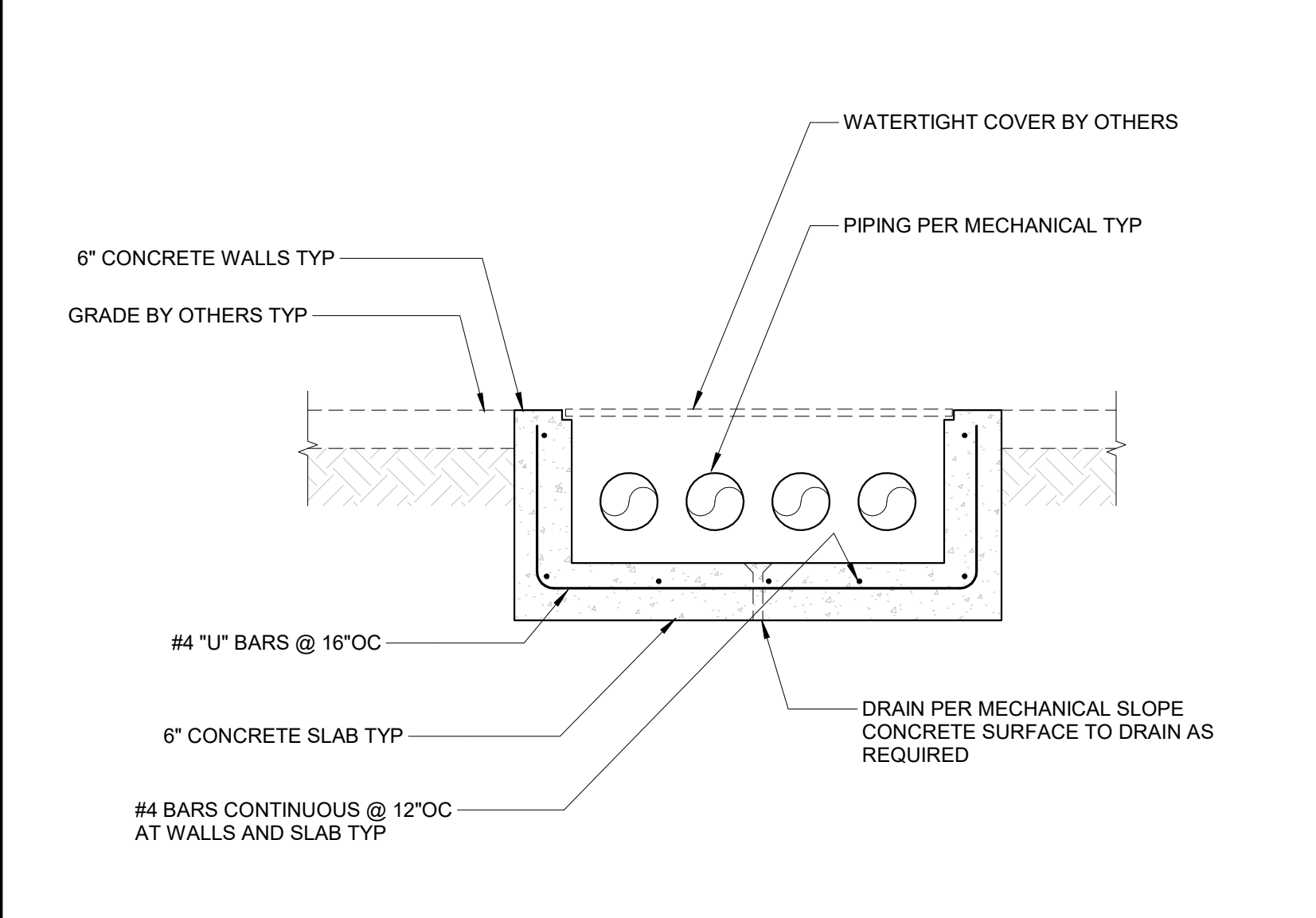
7 STEP AT SLAB ON GRADE
SCALE: 3/4" = 1'-0"



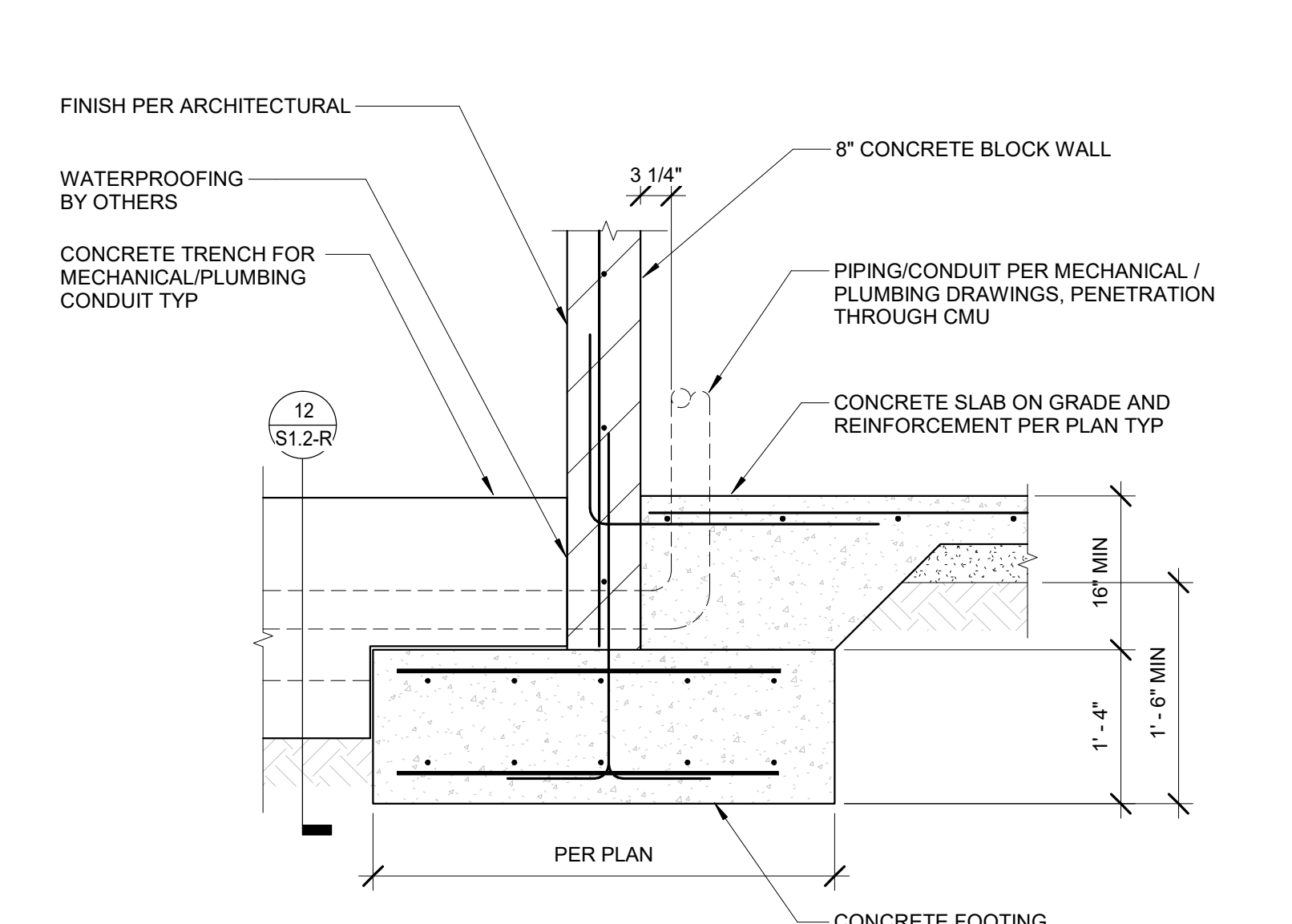
3 TYP SLAB ON GRADE
SCALE: 3/4" = 1'-0"



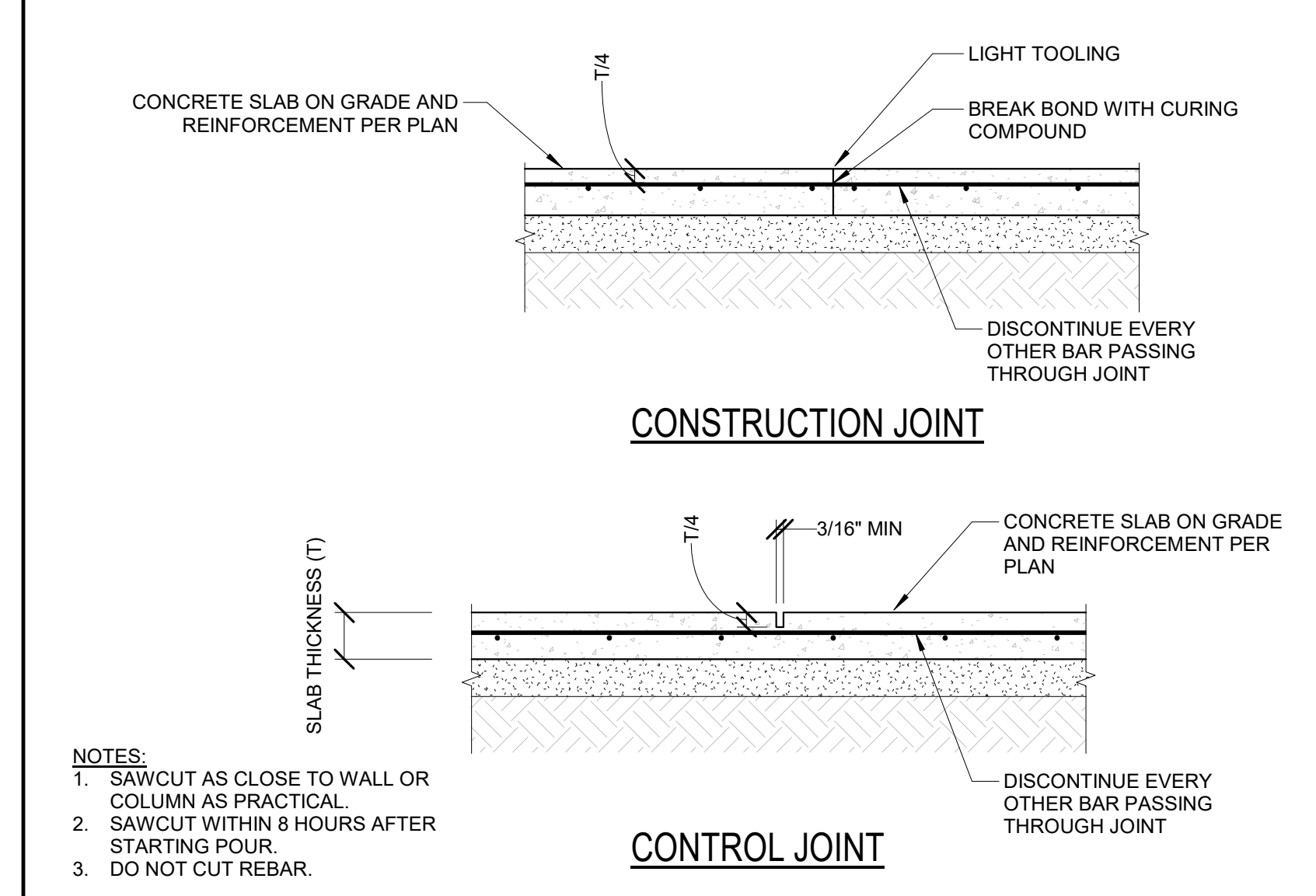
16 TYPICAL REINFORCEMENT AT INTERSECTIONS OF CONCRETE WALLS AND FOOTINGS
SCALE: 3/4" = 1'-0" (S1.2-R)



12 TYPICAL PIPE TRENCH
SCALE: 3/4" = 1'-0" (S1.2-R)



8 TRENCH AT FOOTING
SCALE: 3/4" = 1'-0"



4 SLAB ON GRADE CONSTRUCTION & CONTROL JOINT
SCALE: 3/4" = 1'-0"

Project Status

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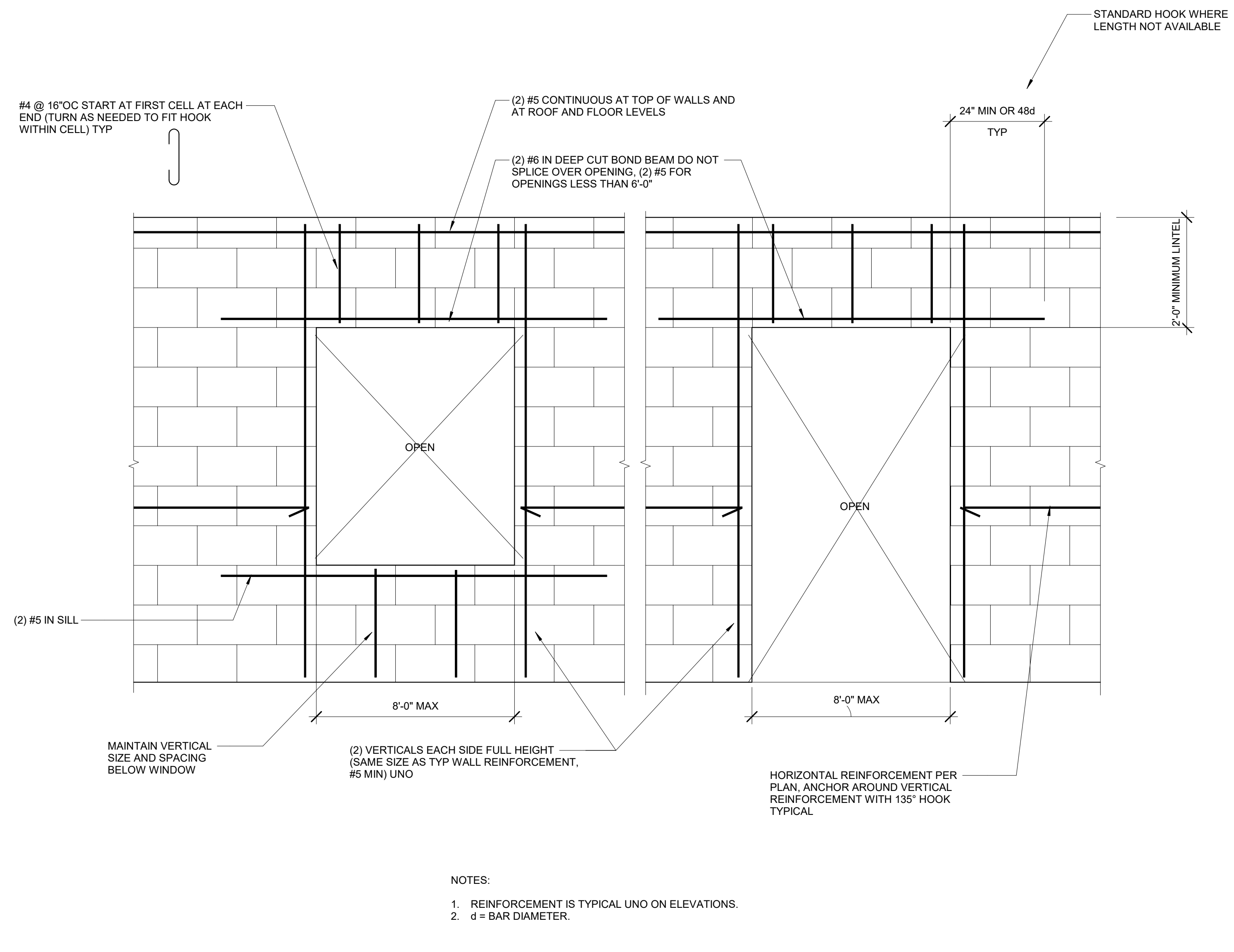
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TYPICAL FOUNDATION DETAILS

PROJECT
W0103

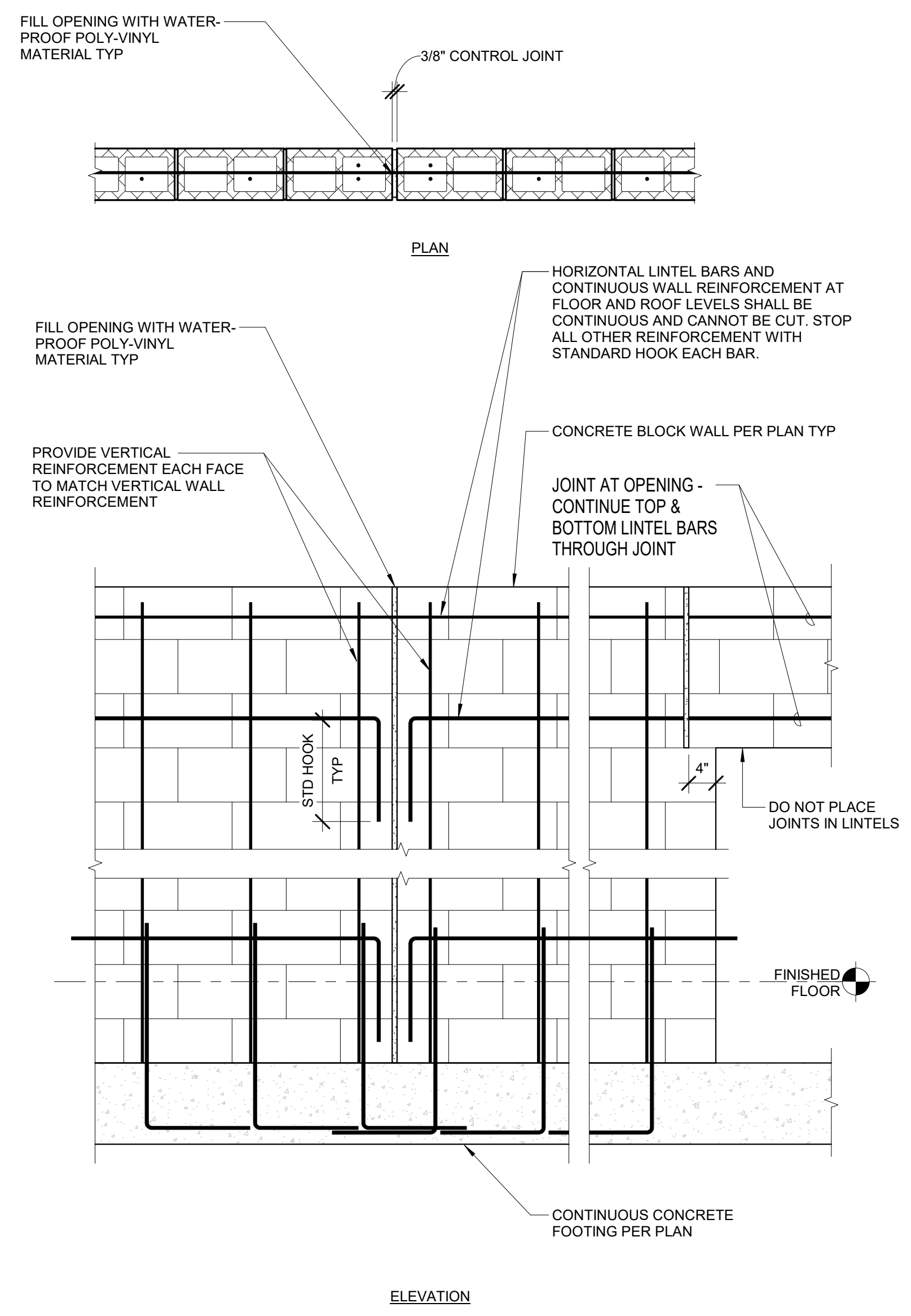
DATE
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SCALE
As indicated

REVISION
S1.2-R

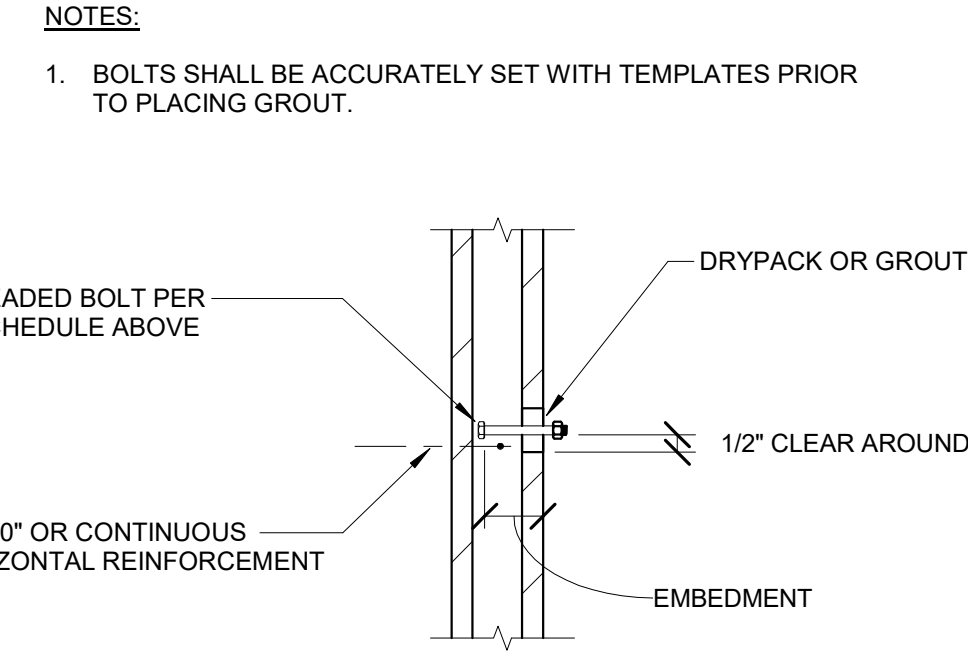


10 TYPICAL MASONRY WALL OPENING ELEVATION
SCALE: 3/4" = 1'-0"

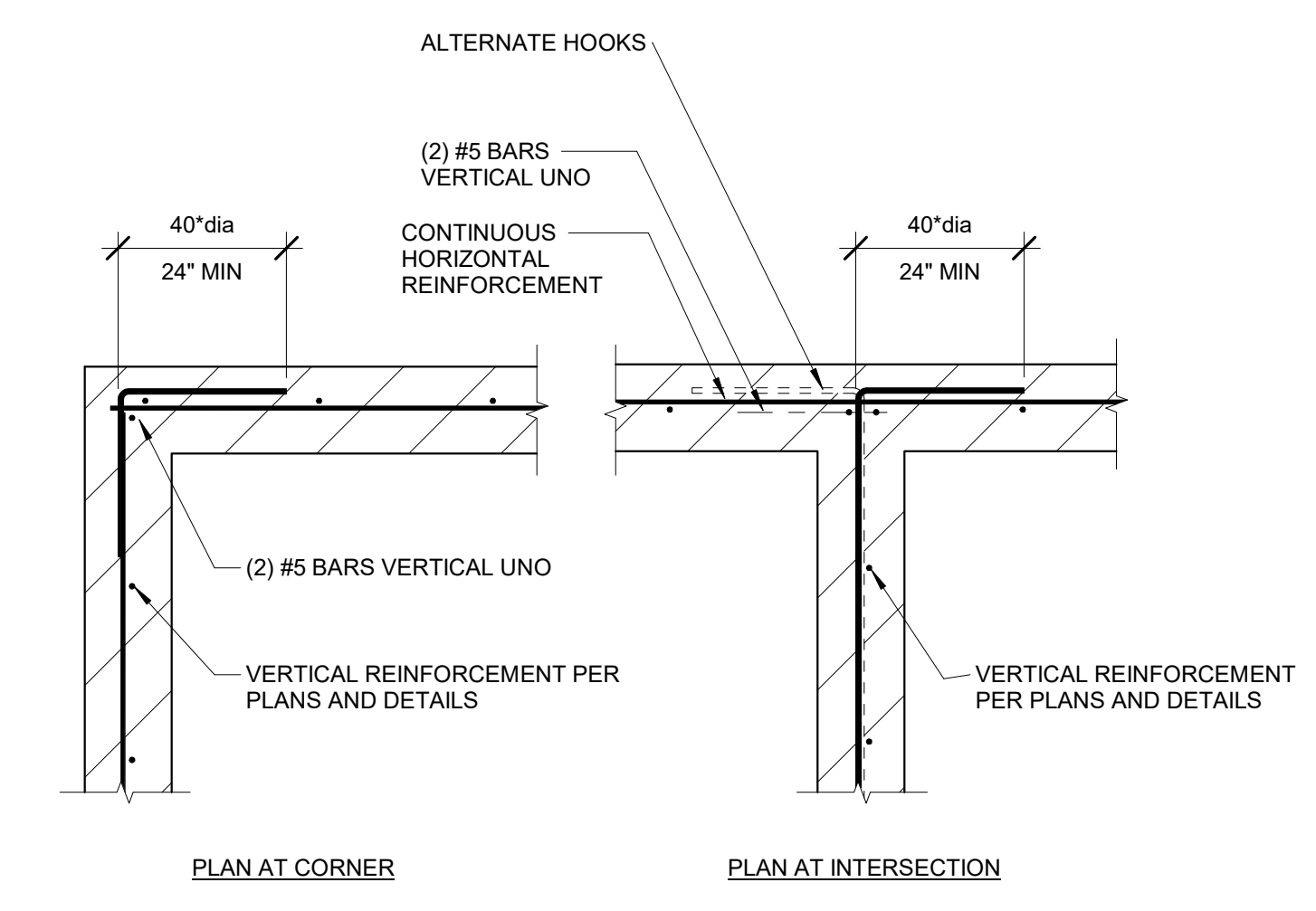


6 TYPICAL BLOCK WALL JOINTS (24'-0" o.c. MAX)
SCALE: 3/4" = 1'-0"

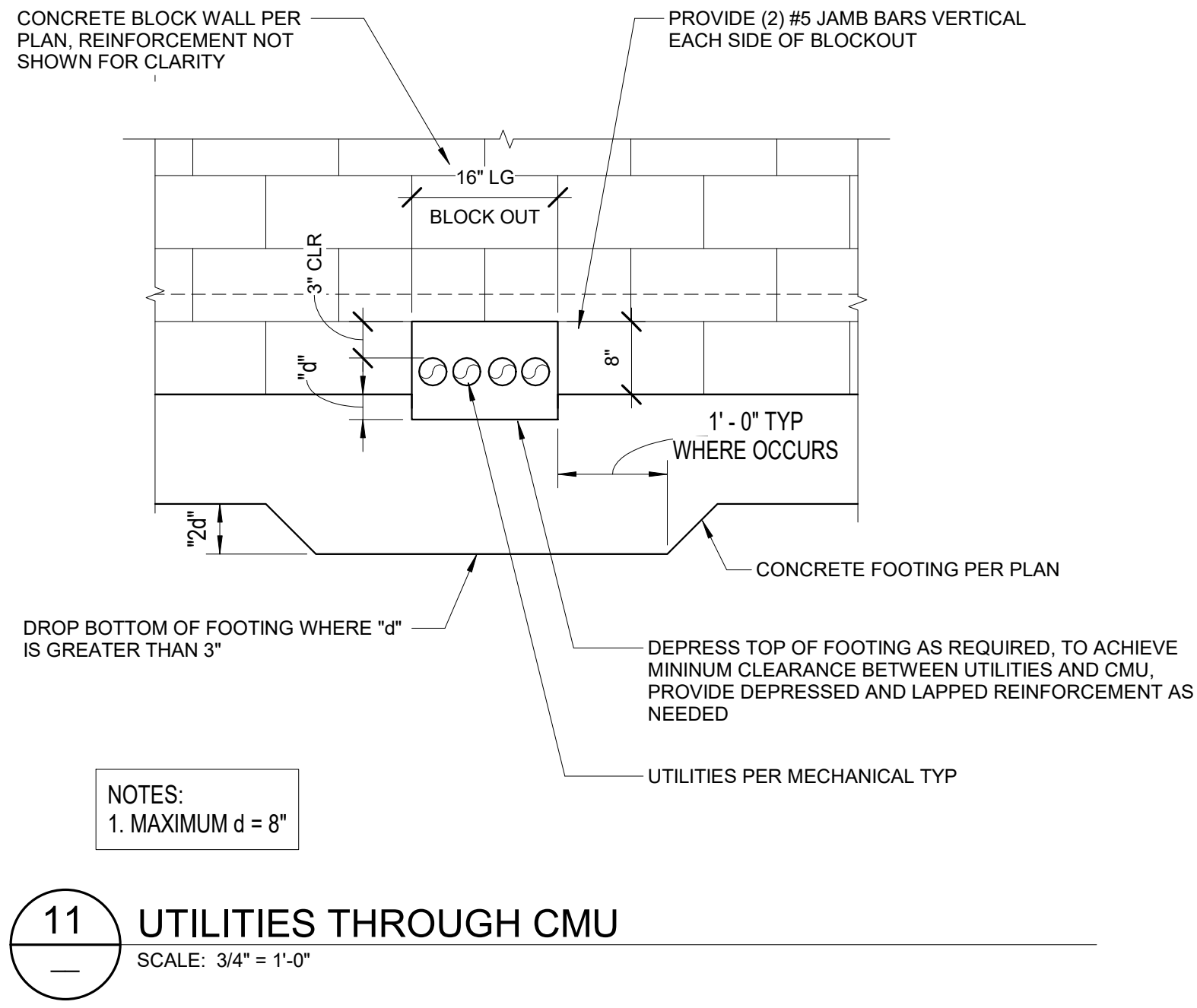
MIN EMBEDMENT FOR ALL BOLTS IN MASONRY WALLS	
BOLT SIZE	EMBEDMENT
1/2"	5"
5/8"	5"
3/4"	6" (5" AT 8" CMU)



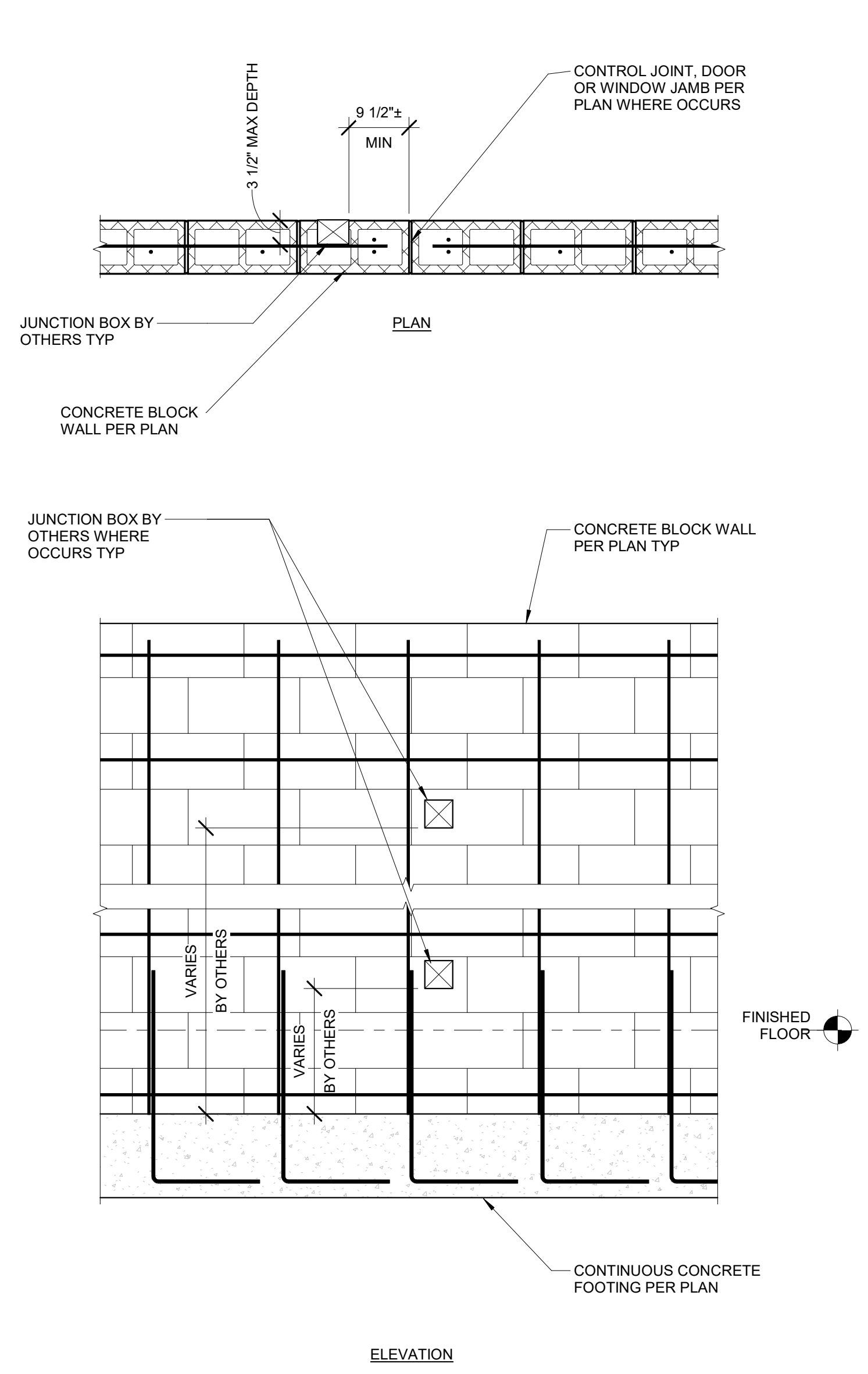
1 ANCHOR BOLT TO MASONRY WALL
SCALE: 3/4" = 1'-0"



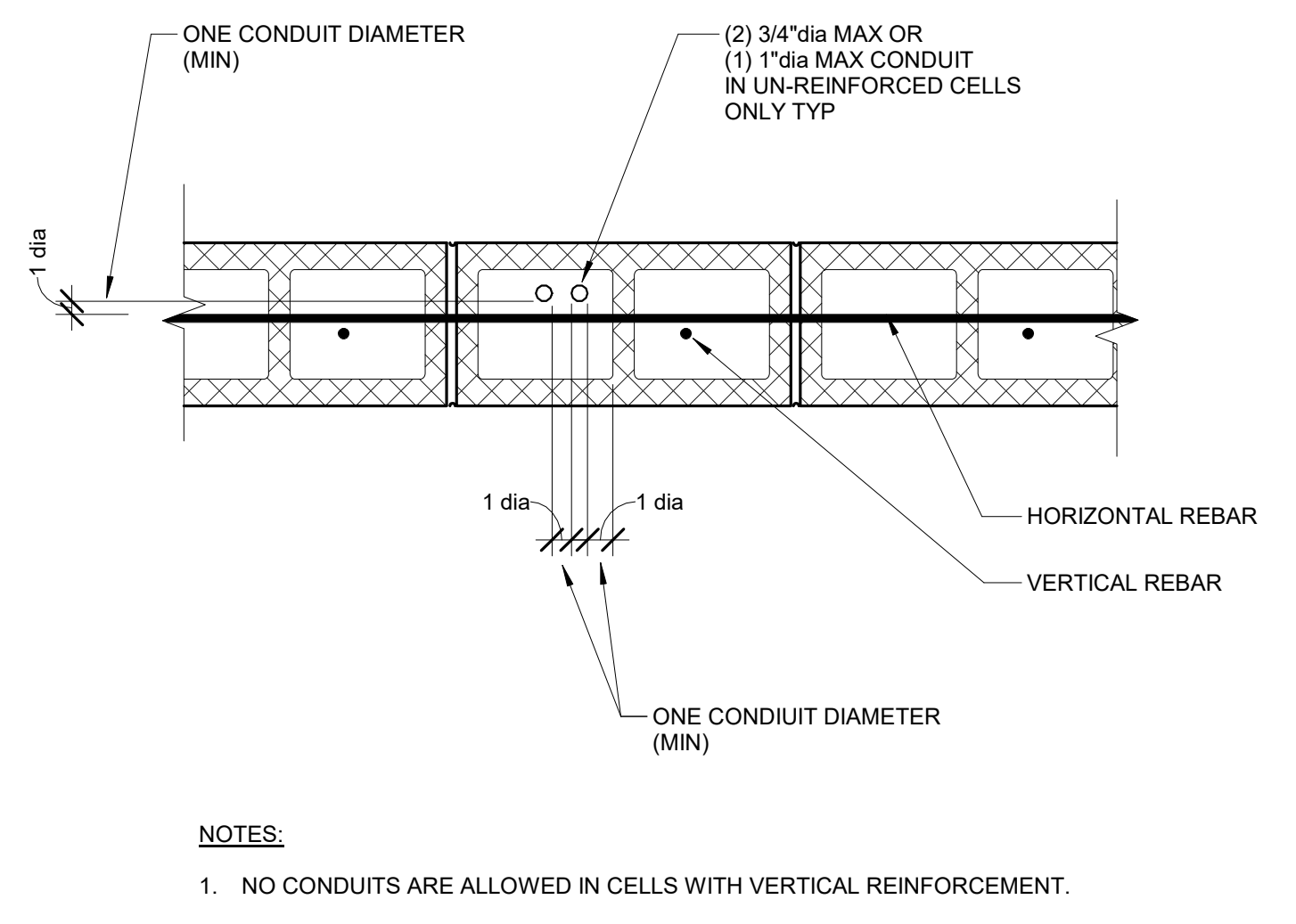
2 REINFORCEMENT AT INTERSECTIONS OF CMU WALLS
SCALE: 3/4" = 1'-0"



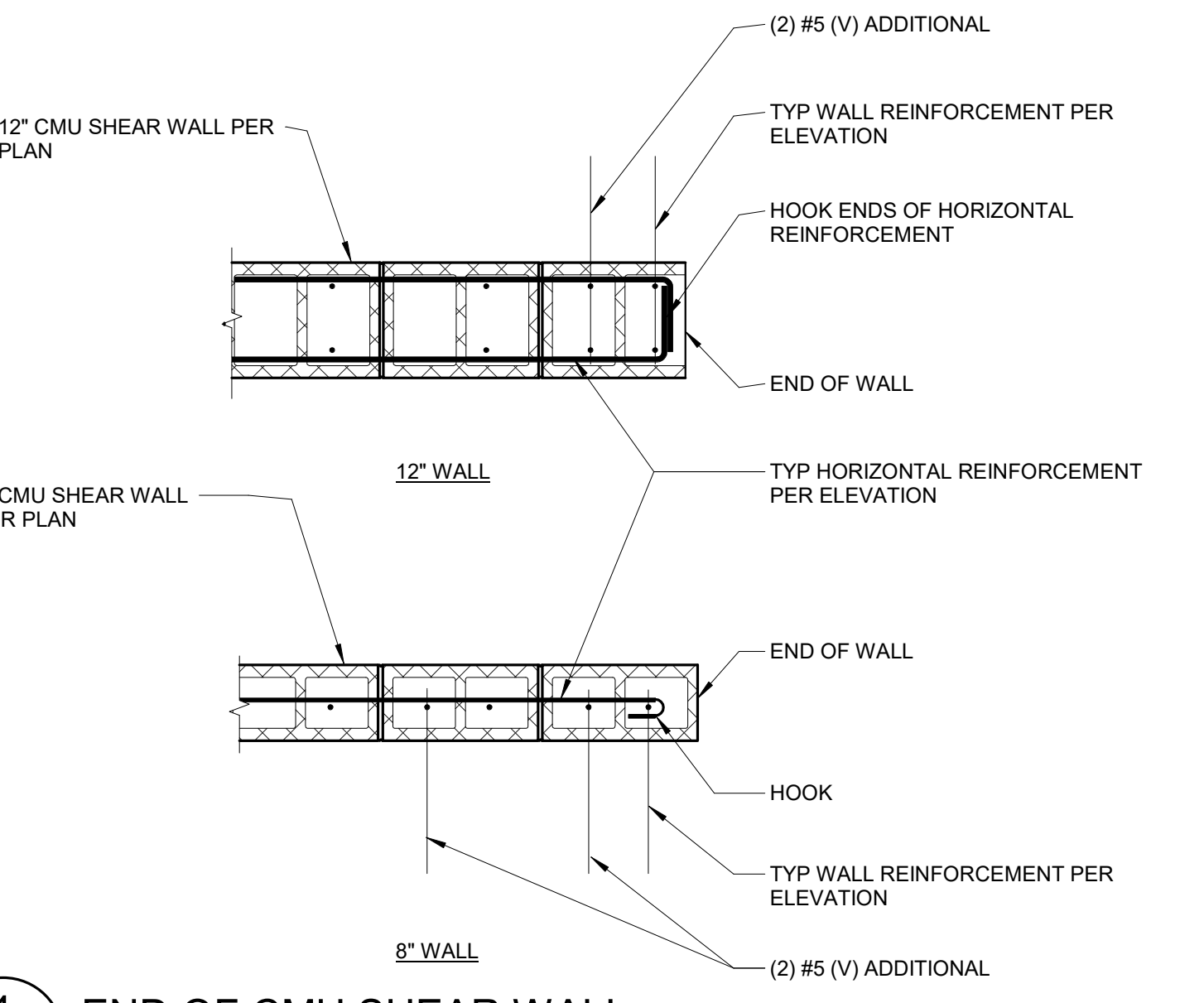
11 UTILITIES THROUGH CMU
SCALE: 3/4" = 1'-0"



8 TYPICAL JUNCTION BOX AT CMU WALLS
SCALE: 3/4" = 1'-0"



3 TYPICAL CONDUIT IN CMU WALLS
SCALE: 1 1/2" = 1'-0"



4 END OF CMU SHEAR WALL
SCALE: 3/4" = 1'-0"

MASONRY LAP SPLICES PER ACI 530		
BAR SIZE	2" MIN CLEAR COVER & SPACING LAP (INCHES):	2 7/8" MIN CLEAR COVER & SPACING LAP (INCHES):
3	15	15
4	26	20
5	40	29
6	54	54
7	63	63
8	72	72
9	81	81

NOTES:

1. TABULATED VALUES ARE FOR GRADE 60 REINFORCING BAR AND MINIMUM 1500 psi MASONRY.
2. TABULATED VALUES ARE FOR UNCOATED BARS.
3. TABULATED VALUES ASSUME MINIMUM CLEAR COVER AND SPACING AS NOTED.
4. #9 BARS ARE THE LARGEST DIAMETER BARS ALLOWED FOR USE IN MASONRY.
5. BUNDLED BARS ARE NOT PERMITTED IN MASONRY.
6. FOLLOW ACI-530 FOR CIRCUMSTANCES NOT MEETING THESE ASSUMPTIONS.

16 MASONRY LAP SPLICE SCHEDULE
SCALE: 3/4" = 1'-0"

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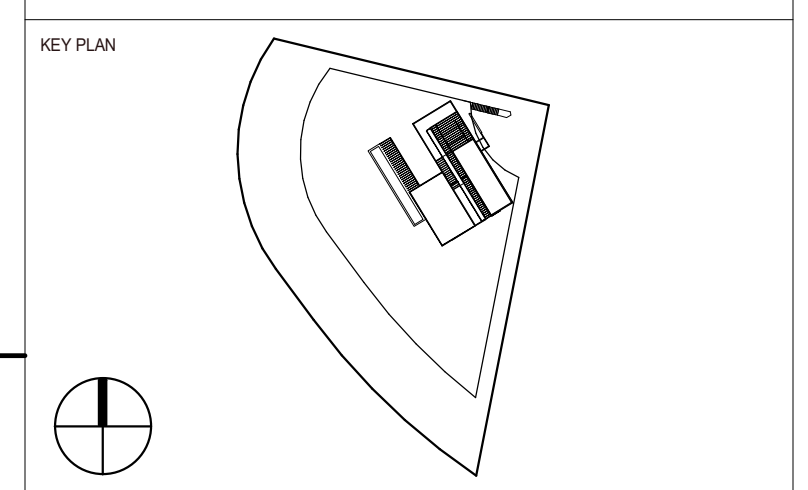
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STATE OF CALIFORNIA

PROJECT

INFINITY RESIDENCE

TITLE

TYPICAL MASONRY DETAILS

PROJECT

W0103

DATE

09/11/23

SCALE

As indicated

PROJECT NUMBER

S1.3-R

PLAN NOTES:

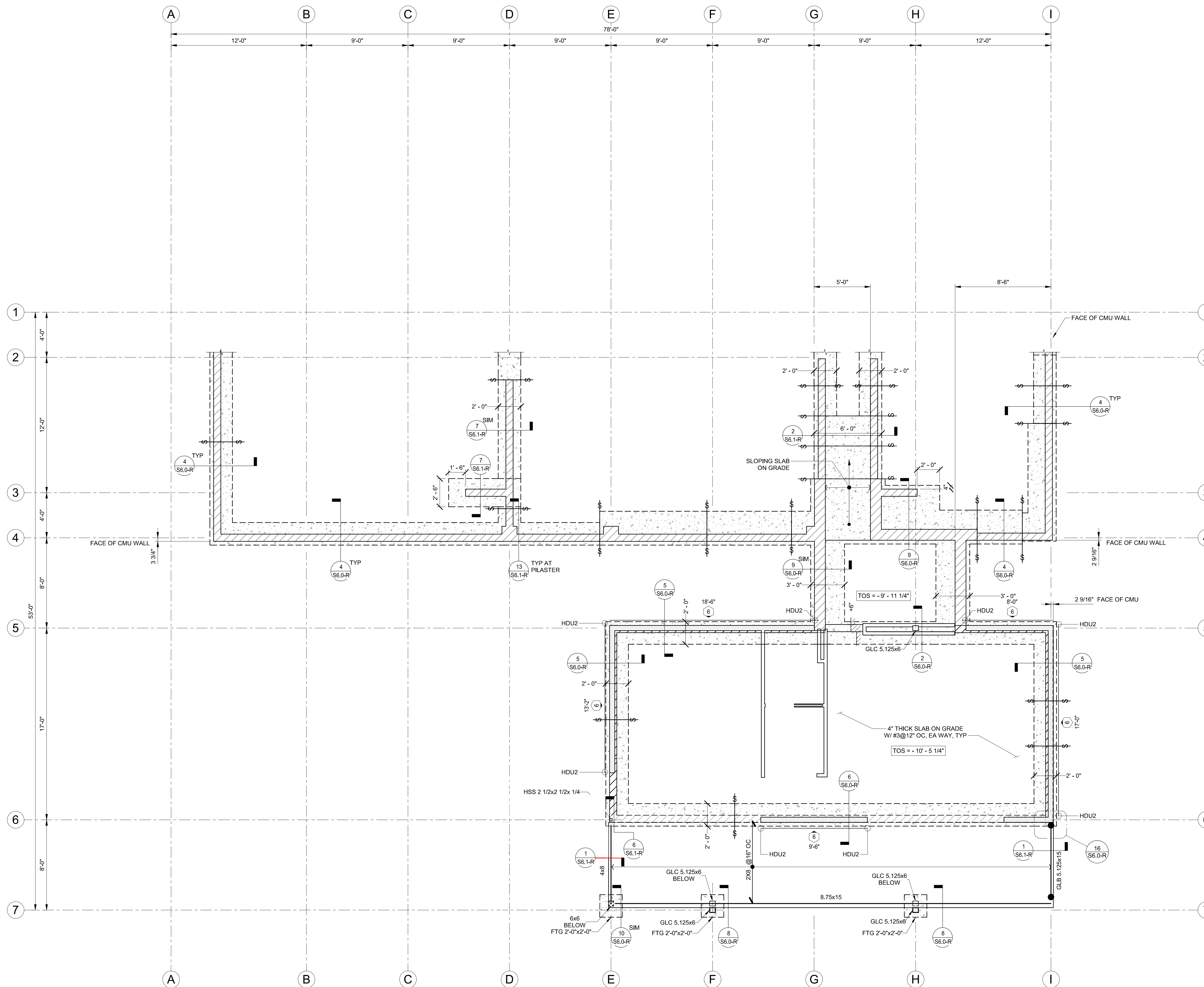
- SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- VERIFY ALL DIMENSIONS PRIOR TO START OF WORK, SEE ARCHITECTURAL DRAWINGS AS REQUIRED.
- FOR LOCATION OF CURBS, SLAB DEPRESSIONS, SLAB SLOPES, FLOOR DRAINS, ETC., COORDINATE WITH ARCHITECTURAL DRAWINGS.
- ALL INTERIOR WOOD WALLS SHALL BE 2x4. ALL EXTERIOR WOOD WALLS SHALL BE 2x6. UNO, EXCEPTION: WHERE INTERIOR WALL BELOW EXTERIOR WALL, INTERIOR WALL SHALL BE 2x6 TO MATCH WALL ABOVE.
- 6x6 WOOD COLUMNS TO BE INSTALLED IN WALLS UNDER END OF ALL GLULAM BEAMS.
- FOR FOOTING DIMENSIONS NOT SHOWN ON PLAN, SEE SCHEDULE #1 S6.0-R.
- SHEARWALL LENGTHS SHOWN ARE TO ENSURE END COLUMNS ALIGN WITH WALL BELOW. NO OFFSET IN STACKED WALLS IS ALLOWED. NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF ANY DISCREPANCIES FOUND.
- PLYWOOD TO BE INSTALLED ON ALL EXTERIOR WALLS AND ABOVE AND BELOW ALL OPENINGS PER SHEARWALL 6, UNO.
- ELEVATIONS PROVIDED ARE BASED ON FF 0'-0" AT LOWER LEVEL PER ARCH.

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LEGEND

	DENOTES SHEAR WALL PER SCHEDULE W/ MIN SHEARWALL LENGTH, "X-XX".
	DENOTES STEPPED FOOTING PER SCHEDULE #1 S6.1-R.
	DENOTES MASONRY WALL.
	DENOTES 2x6 STUD WALL.
	DENOTES 2x4 STUD WALL.
	DENOTES HOLD DOWN PER SCHEDULE #4 S6.1-R.
	POST OF TYPE AND SIZE INDICATED.
	DENOTES POST BELOW.
	DENOTES WALL BELOW.
	DENOTES CONCRETE PAD FOUNDATION.
	DENOTES CONTINUOUS CONCRETE FOOTING.
	MASONRY PILASTER.
	SPAN DIRECTION.
	FRAMING EXTENTS.
	SIMPSON CBH 2.37X3.75 CONNECTION PER 3/S7.2-R FOR WOOD TO WOOD, 14/S7.2-R FOR WOOD TO STEEL, 16/S6.0-R FOR WOOD TO CMU.
	GLULAM BEAM SPLICE.



POOL LEVEL FOUNDATION & FRAMING PLAN
1/4" = 1'-0"

MARK	SHEATHING THICKNESS	GRADE / MATERIAL	NAIL SIZE	EN (EDGE NAIL) SPACING	F.N. (FIELD NAILING) SPACING	TOP PLATE NAIL (TPN) SPACING SIMPSON SDWS22650 (L=6\" UNO)	SILL BOLTS 5/8\" DIA ANCHORS	SILL NAILING (SPN) SPACING SIMPSON SDWS22 (L=6\" UNO)	V _{RED} SHEAR μ	COMMENTS
6	15/32"	STRUCT1 (24/0)	10d	6"	12"	16" OC	48" OC	16" OC	340	2x SILL
4	15/32"	STRUCT1 (24/0)	10d	4"	12"	12" OC	32" OC	12" OC	510	2x SILL
3	15/32"	STRUCT1 (24/0)	10d	3"	12"	8" OC	24" OC	8" OC	665	2x SILL
2	15/32"	STRUCT1 (24/0)	10d	2"	12"	8" OC	16" OC	8" OC (L=10")	870	2x SILL

NOTES:
a. PROVIDE SILL NAILING AT EACH SILL PATE AT MULTIPLE SILL PLATES.

SW SHEAR WALL SCHEDULE
SCALE: 3/4" = 1'-0"

Model No.	Ga.	Dimensions (in.)					Fasteners (in.)		Minimum Wood Member Size (in.)	Allowable Tension Loads (160)		
		W	H	B	CL	SD	Anchor Bolt Dia. (in.)	Wood Fasteners		DF/SP	SPF/HF	Deflection at Allowable Load (in.)
HDU2-SDS2.5	14	3	8 1/4	3 1/4	1 1/4	1 1/4	5/8	(6) 1/4 x 2 1/2 SDS	3 x 3 1/2	3,075	2,215	0.088
HDU4-SDS2.5	14	3	10 1/4	3 1/4	1 1/4	1 1/4	5/8	(10) 1/4 x 2 1/2 SDS	3 x 3 1/2	4,565	3,285	0.114
HDU5-SDS2.5	14	3	13 1/4	3 1/4	1 1/4	1 1/4	5/8	(14) 1/4 x 2 1/2 SDS	3 x 3 1/2	5,645	4,340	0.115
HDU6-SDS2.5	10	3	16 1/4	3 1/4	1 1/4	1 1/4	7/8	(20) 1/4 x 2 1/2 SDS	3 1/2 x 3 1/2	6,765	5,020	0.11
									3 1/2 x 4 1/2	6,970	5,995	0.116
									3 1/2 x 5 1/2	7,870	6,580	0.113
HDU11-SDS2.5	10	3	22 1/4	3 1/4	1 1/4	1 1/4	1	(30) 1/4 x 2 1/2 SDS	3 1/2 x 5 1/2	9,535	8,030	0.137
									3 1/2 x 7 1/4	11,175	9,610	0.137
									3 1/2 x 5 1/2	10,770	9,260	0.122
HDU14-SDS2.5	7	3	25 1/4	3 1/4	1 1/4	1 1/4	1	(36) 1/4 x 2 1/2 SDS	3 1/2 x 7 1/4	14,390	12,375	0.177
									5 1/2 x 5 1/2	14,445	12,425	0.172

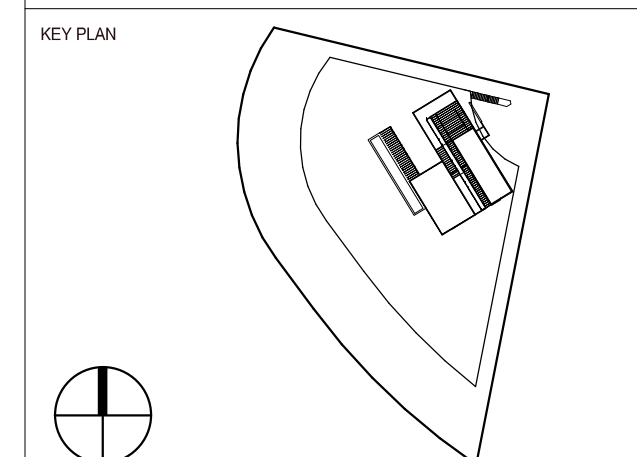
Project Status

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CONSULTANT
Tepa ENGINEERING SERVICES

CONSULTANT
TAQUINO engineering

CLIENT
o.lbm



PROJECT
INFINITY RESIDENCE

TITLE
POOL TERRACE FOUNDATION PLAN

PROJECT
W0103
NUMBER
S2.1-R

DATE
09/11/23
SCALE
As indicated

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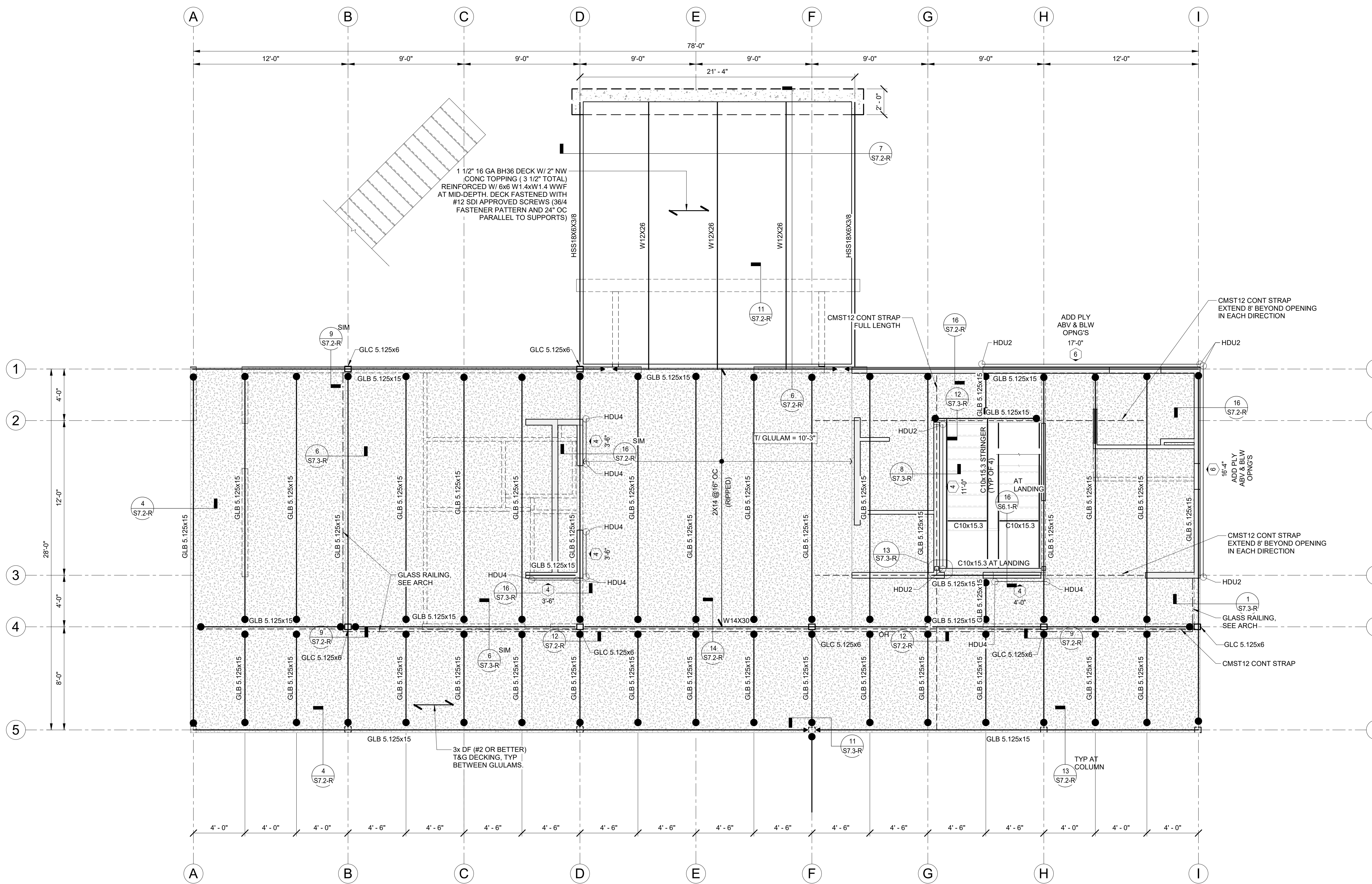
PLAN NOTES:

- SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS AS REQUIRED.
- FOR LOCATION OF CURBS, SLAB DEPRESSIONS, SLAB SLOPES, FLOOR DRAINS, ETC. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- ALL INTERIOR WOOD WALLS SHALL BE 2x4. ALL EXTERIOR WOOD WALLS SHALL BE 2x6. EXCEPT WHERE INTERIOR WALL BELOW EXTERIOR WALL. INTERIOR WALL SHALL BE 2x6 TO MATCH WALL ABOVE. UNO.
- 6x6 POST TO BE LOCATED BELOW GLULAM BEAMS IN WALL PER 14 S7.2-R.
- SHEARWALL LENGTHS SHOWN ARE TO ENSURE END POSTS ALIGN WITH WALLS BELOW. NO OFFSET IN STACKED WALLS IS ALLOWED. NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF ANY DISCREPANCY IS FOUND.
- PLYWOOD TO BE INSTALLED ON ALL EXTERIOR WALLS AND ABOVE AND BELOW ALL OPENINGS PER SHEARWALL GE. UNO.
- ALL GLULAM BEAMS ARE CONTINUOUS. NO SPLICES ALLOWED EXCEPT AS SPECIFICALLY REFERENCED ON PLANS.
- ELEVATIONS PROVIDED ARE BASED ON FF 0'-0" AT LOWER LEVEL PER ARCH.

NO	DATE	REASON FOR ISSUE	CHK
1	11/27/19	Plan Check Submission (Performed by Taquino Engineering)	
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6	08/21/23	Bulletin 01	
7	09/11/23	Bulletin 01 Reissue	
8	12/04/23	Plan Review Response	
9	02/10/24	Plan Review Response	

LEGEND

	DENOTES SHEAR WALL PER SCHEDULE W/ MIN SHEARWALL LENGTH, "X-XX"
	DENOTES STEPPED FOOTING PER 1 S1.2-R
	DENOTES MASONRY WALL
	DENOTES 2x6 STUD WALL
	DENOTES 2x4 STUD WALL
	DENOTES HOLD DOWN PER 4 S1.4-R
	POST OF TYPE AND SIZE INDICATED
	DENOTES WALL BELOW
	DENOTES CONCRETE PAD FOUNDATION
	DENOTES CONTINUOUS CONCRETE FOOTING
	MASONRY PILASTER
	SPAN DIRECTION
	FRAMING EXTENTS
	SIMPSON CBH 2.37x9.75 CONNECTION PER 3/S7.2-R FOR WOOD TO WOOD, 14/S7.2-R FOR WOOD TO STEEL, 16/S6.0-R FOR WOOD TO CMU
	GLULAM BEAM SPLICE
	DIAPHRAGM: 1/2" APA RATED PLYWOOD 48/24 w/ 10d SCREW SHANK NAILS @ 6" BN, 6" EN, 12" FN. GLUED OVER 3x DF T&G DECKING W/ 1/4" DIA SIMPSON SDSx6" @ 16" OC TO GLULAM BEAMS



STREET LEVEL FRAMING PLAN
1/4" = 1'-0"

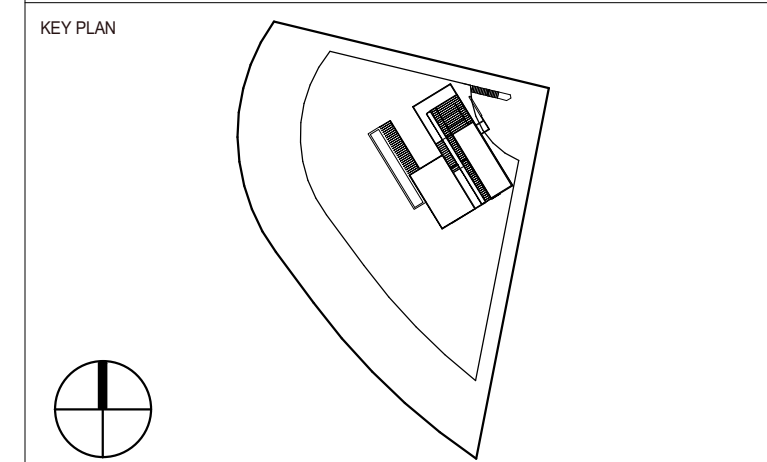
Project Status

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CONSULTANT
Tepa ENGINEERING SERVICES

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TAQUINO Engineering

CLIENT
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PROJECT
INFINITY RESIDENCE

TITLE
STREET LEVEL FRAMING PLAN

PROJECT NUMBER
W0103 S2.3-R

DATE
09/11/23

SCALE
As indicated

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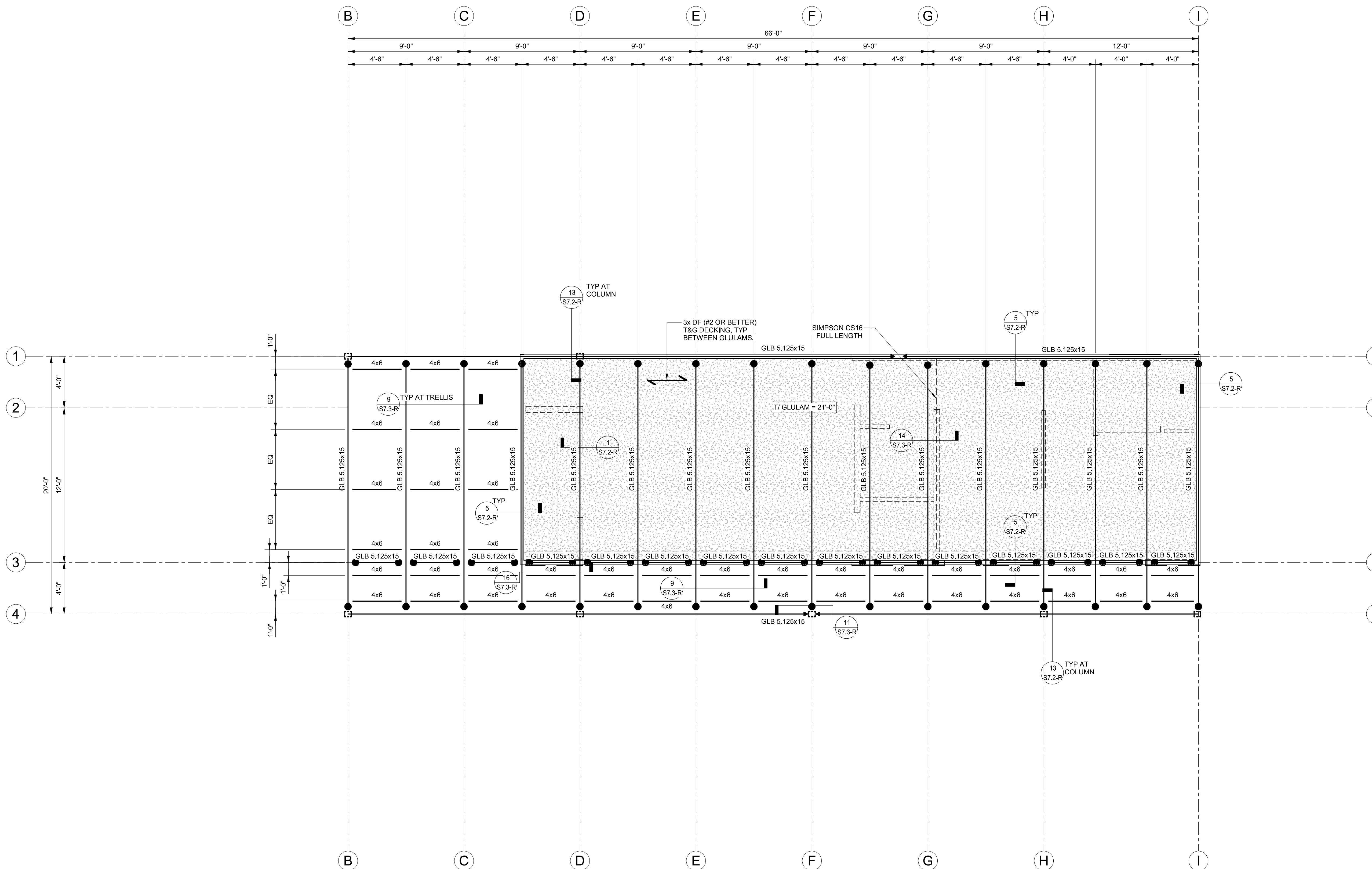
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	DENOTES STEPPED FOOTING PER 1 S1.2-R.
	DENOTES MASONRY WALL
	DENOTES 2x6 STUD WALL
	DENOTES 2x4 STUD WALL
	DENOTES HOLD DOWN PER 4 S1.4-R.
	POST OF TYPE AND SIZE INDICATED
	DENOTES POST BELOW
	DENOTES WALL BELOW
	DENOTES CONCRETE PAD FOUNDATION
	DENOTES CONTINUOUS CONCRETE FOOTING
	MASONRY PILASTER
	SPAN DIRECTION
	FRAMING EXTENTS
	SIMPSON CBH 2.37X9.75 CONNECTION PER 3/S7.2-R FOR WOOD TO WOOD, 14/S7.2-R FOR WOOD TO STEEL, 16/S6.0-R FOR WOOD TO CMU
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ROOF FRAMING PLAN
1/4" = 1'-0"

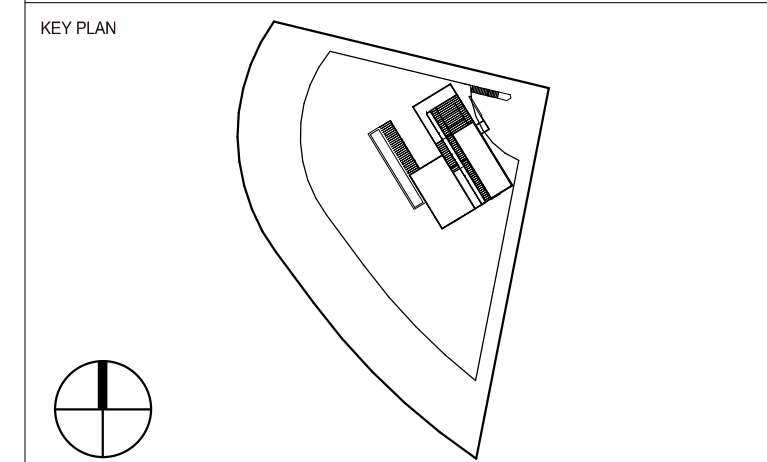
Project Status

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Tepa ENGINEERING SERVICES

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PROJECT
INFINITY RESIDENCE

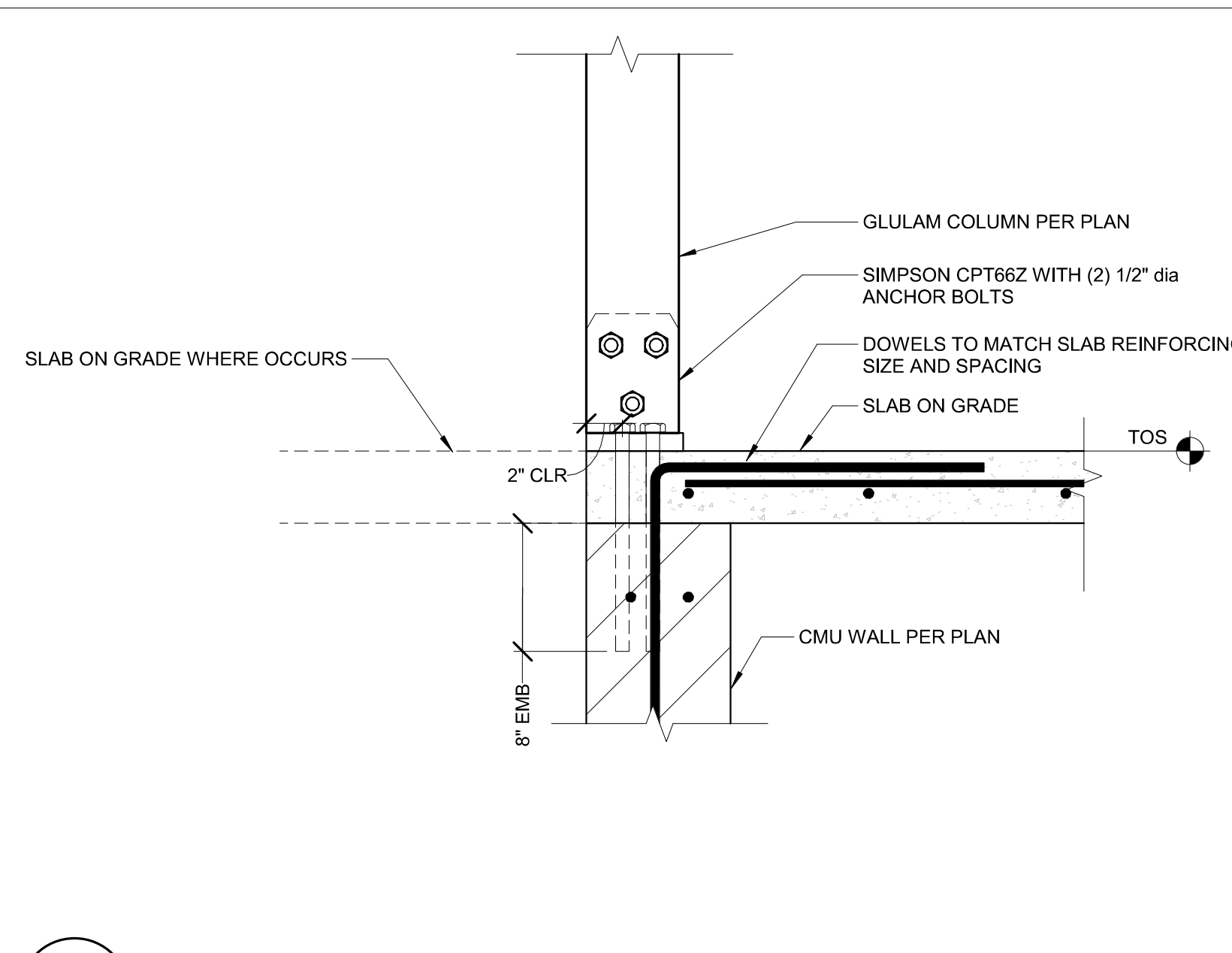
TITLE
ROOF FRAMING PLAN

PROJECT
W0103

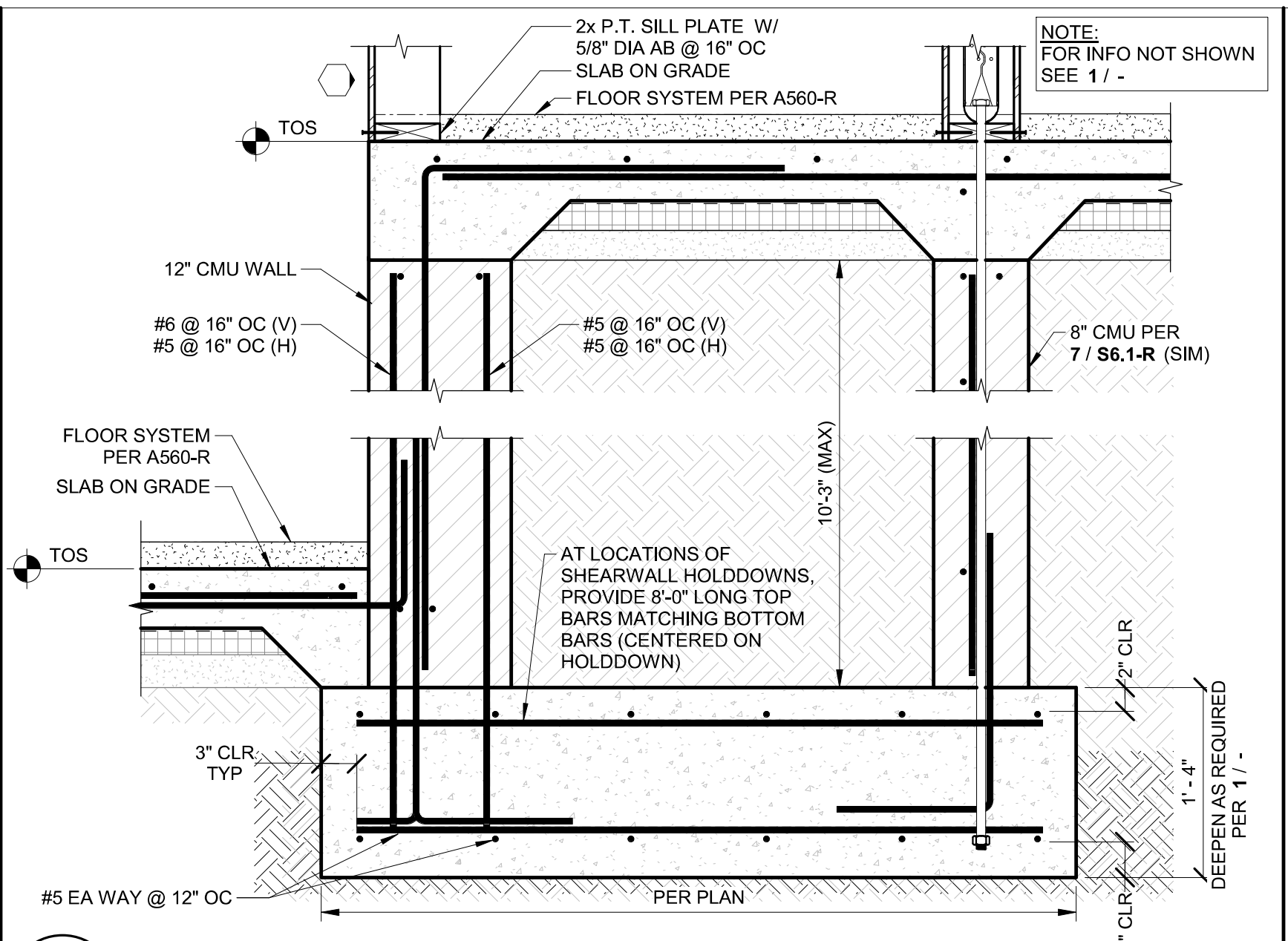
DATE
09/11/23

NUMBER
S2.4-R

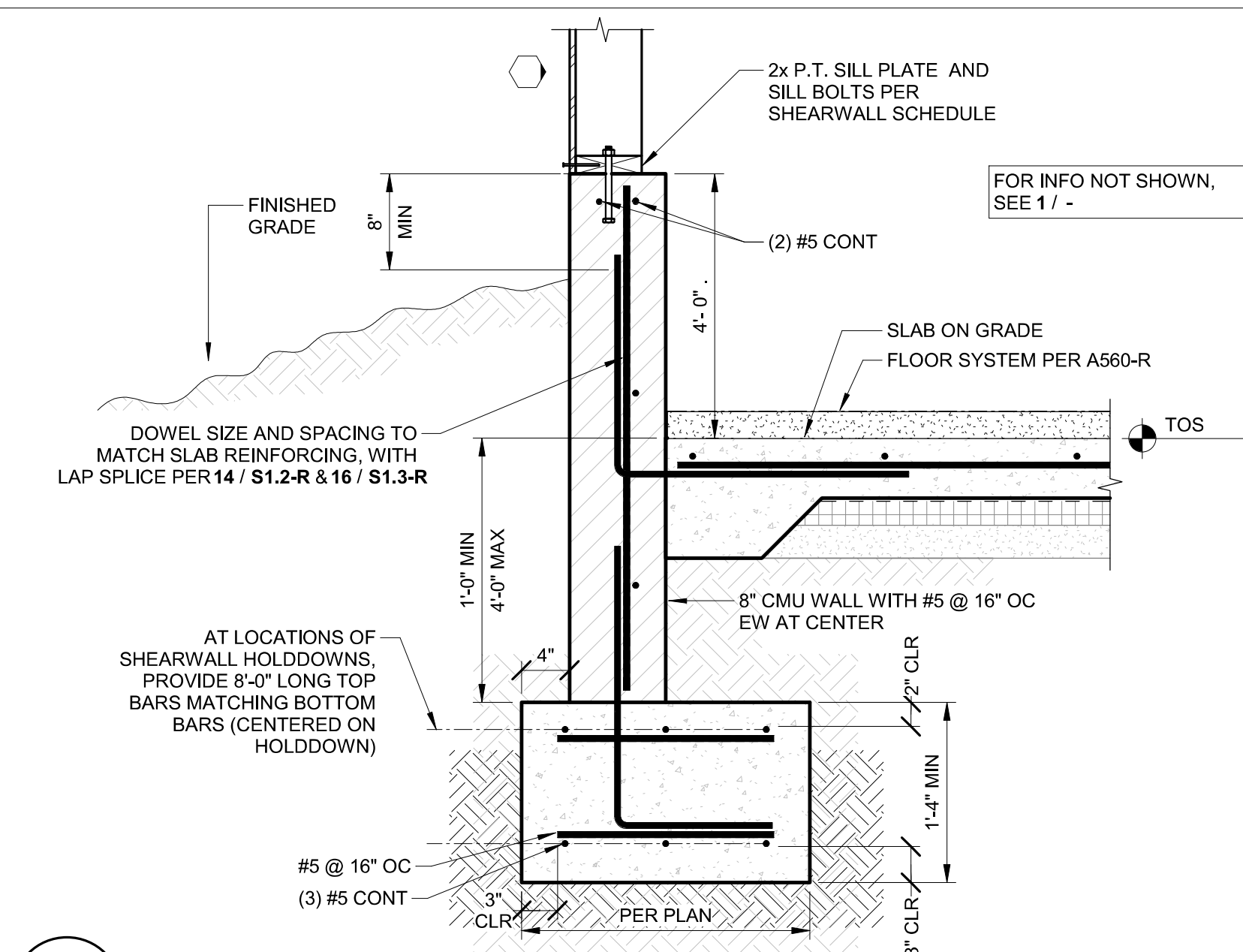
SCALE
As indicated



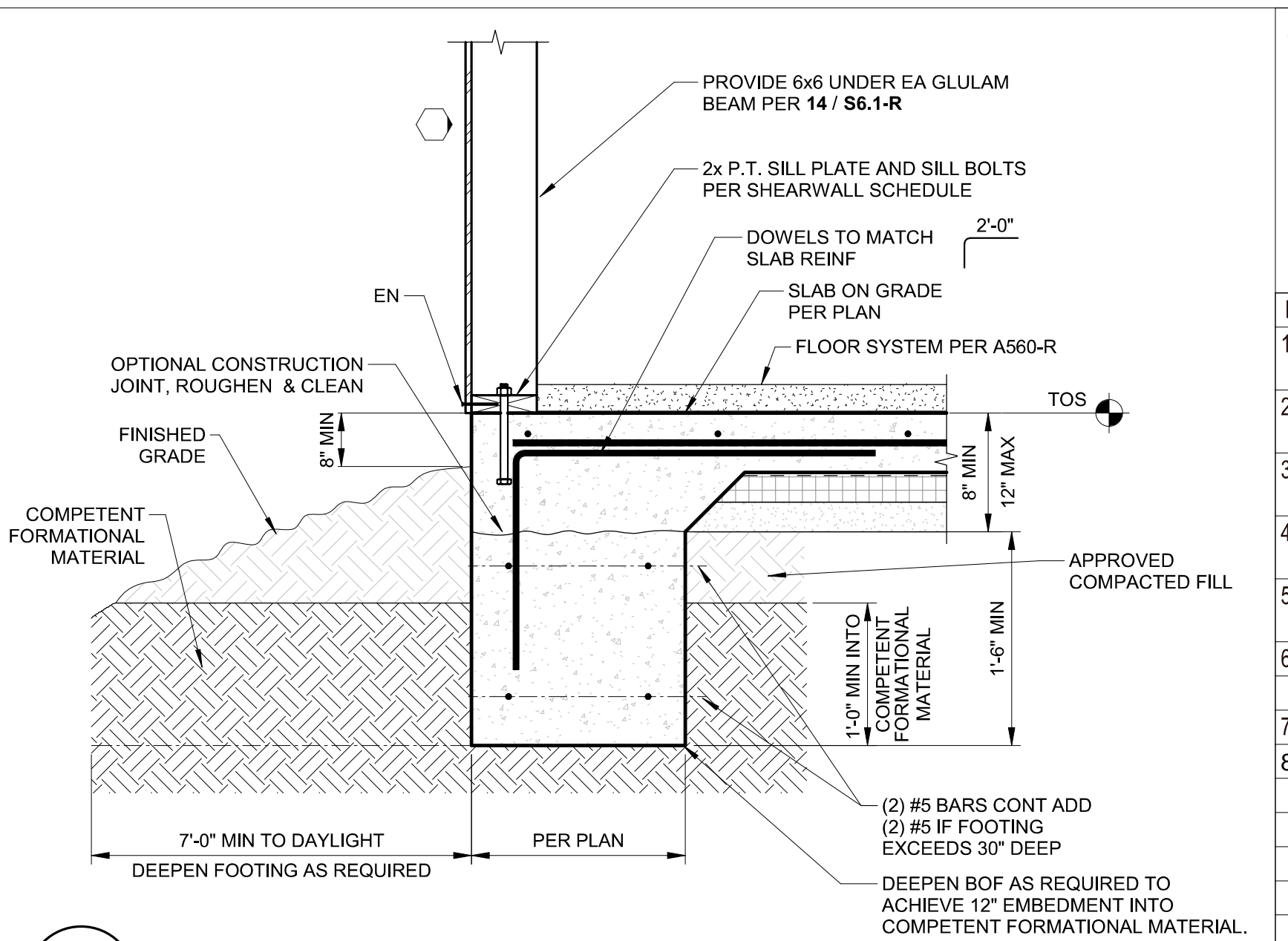
13 GLULAM COLUMN ON CMU WALL
SCALE: 1 1/2" = 1'-0" (S2.2-R)



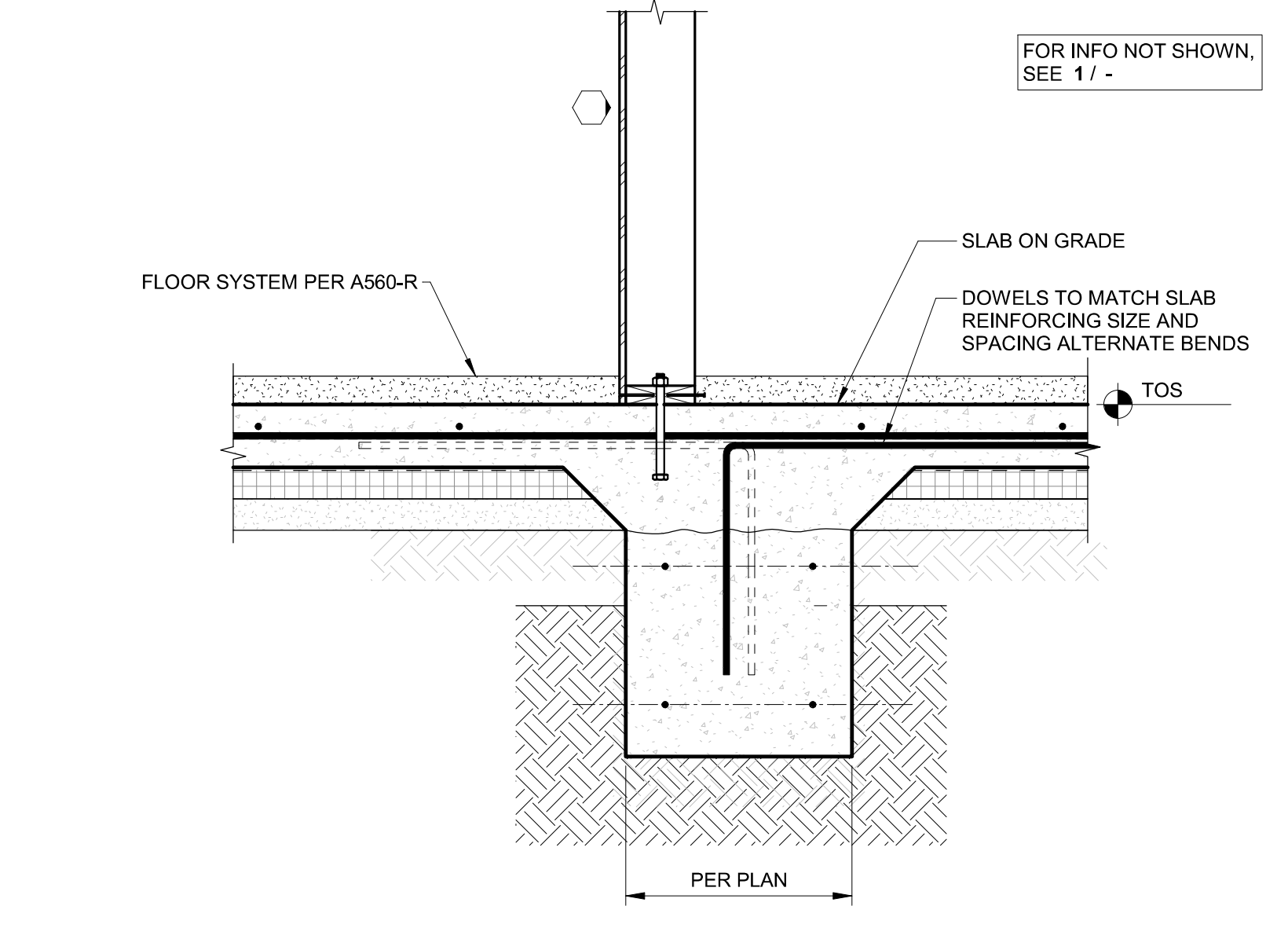
9 BASEMENT WALL AT TUNNEL
SCALE: 1" = 1'-0" (S2.1-R)



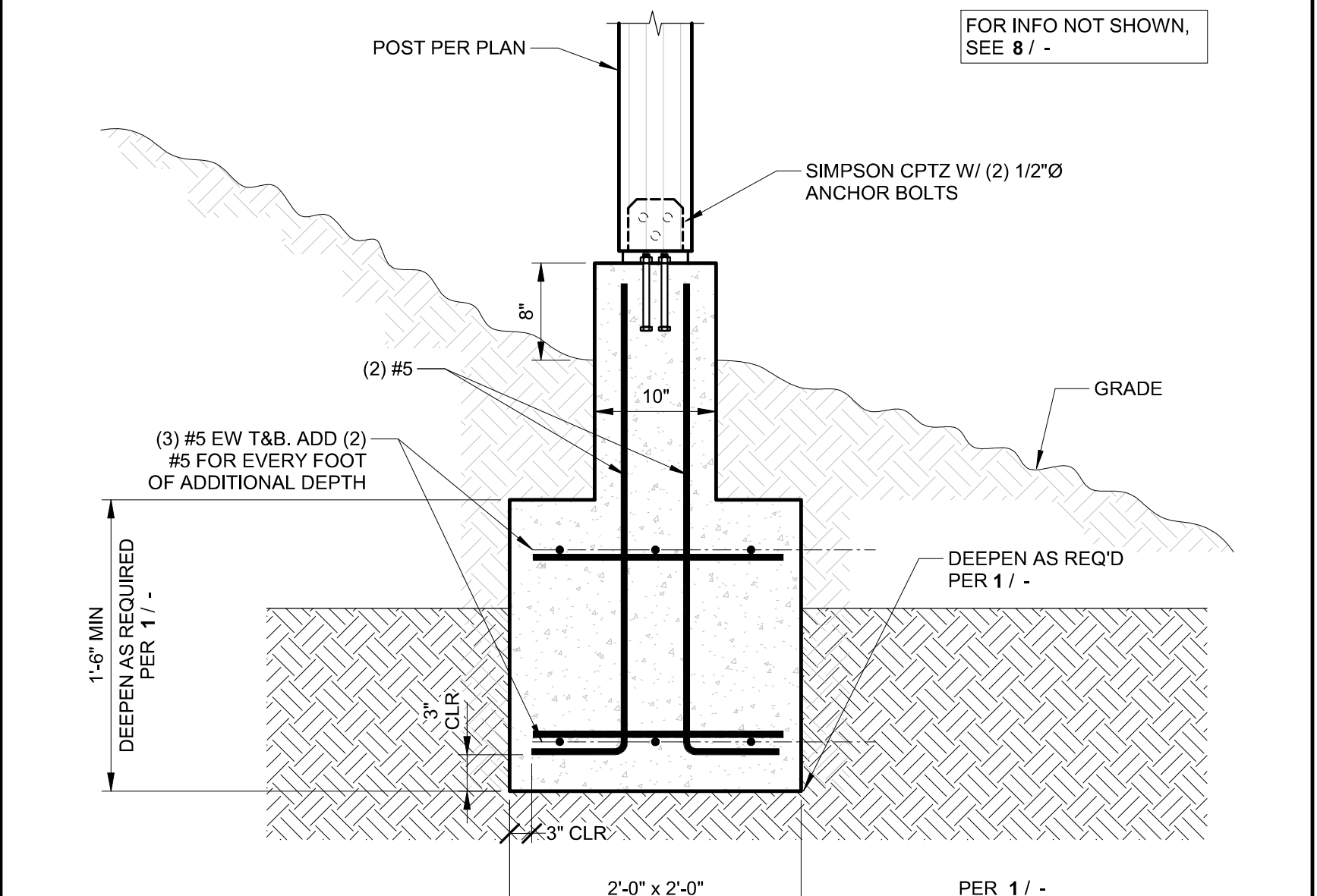
5 STEPPED STEM WALL AT POOL LEVEL
SCALE: 1" = 1'-0" (S2.1-R)



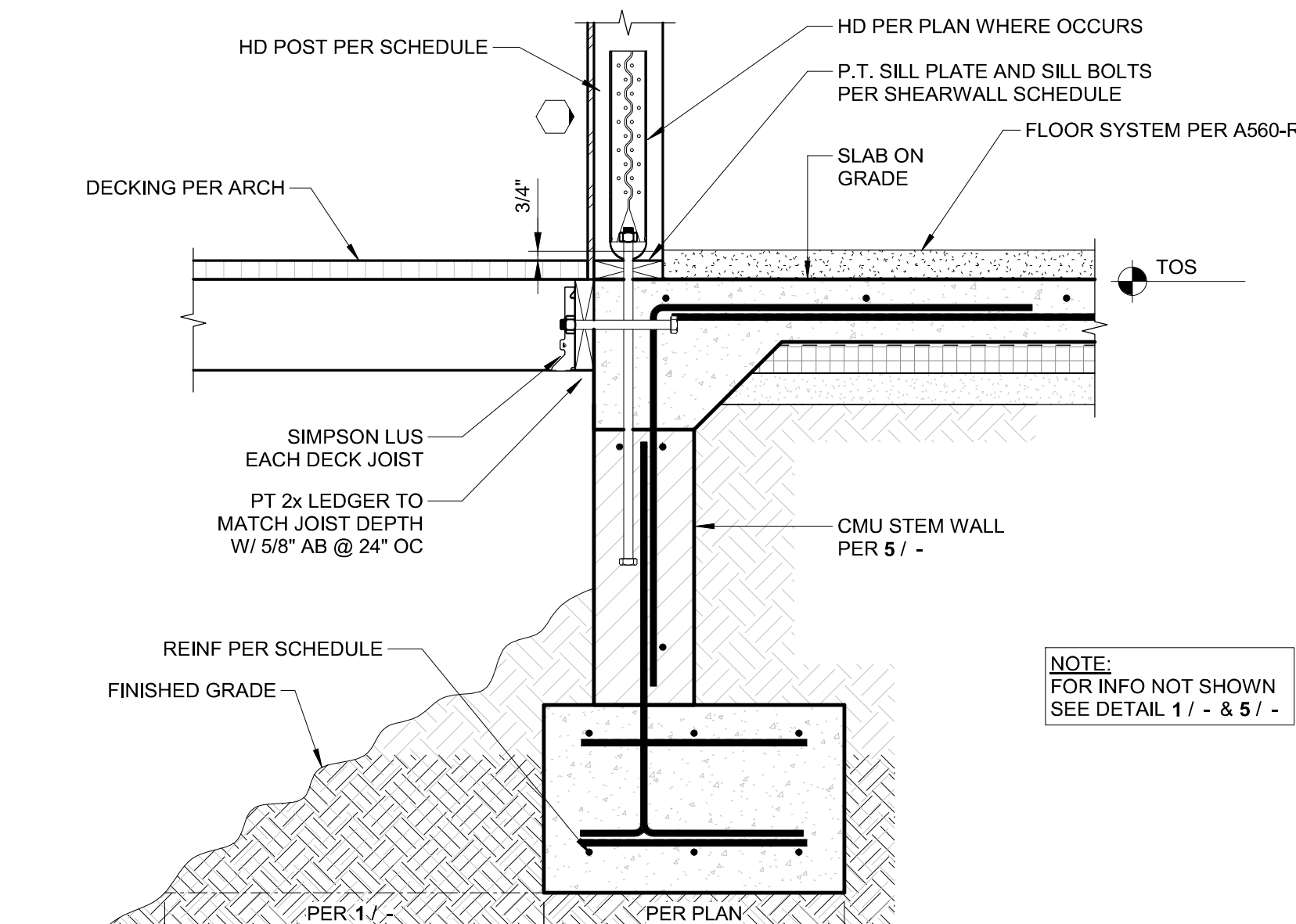
1 TYPICAL EXTERIOR FOOTING
SCALE: 1" = 1'-0" (S2.2-R)



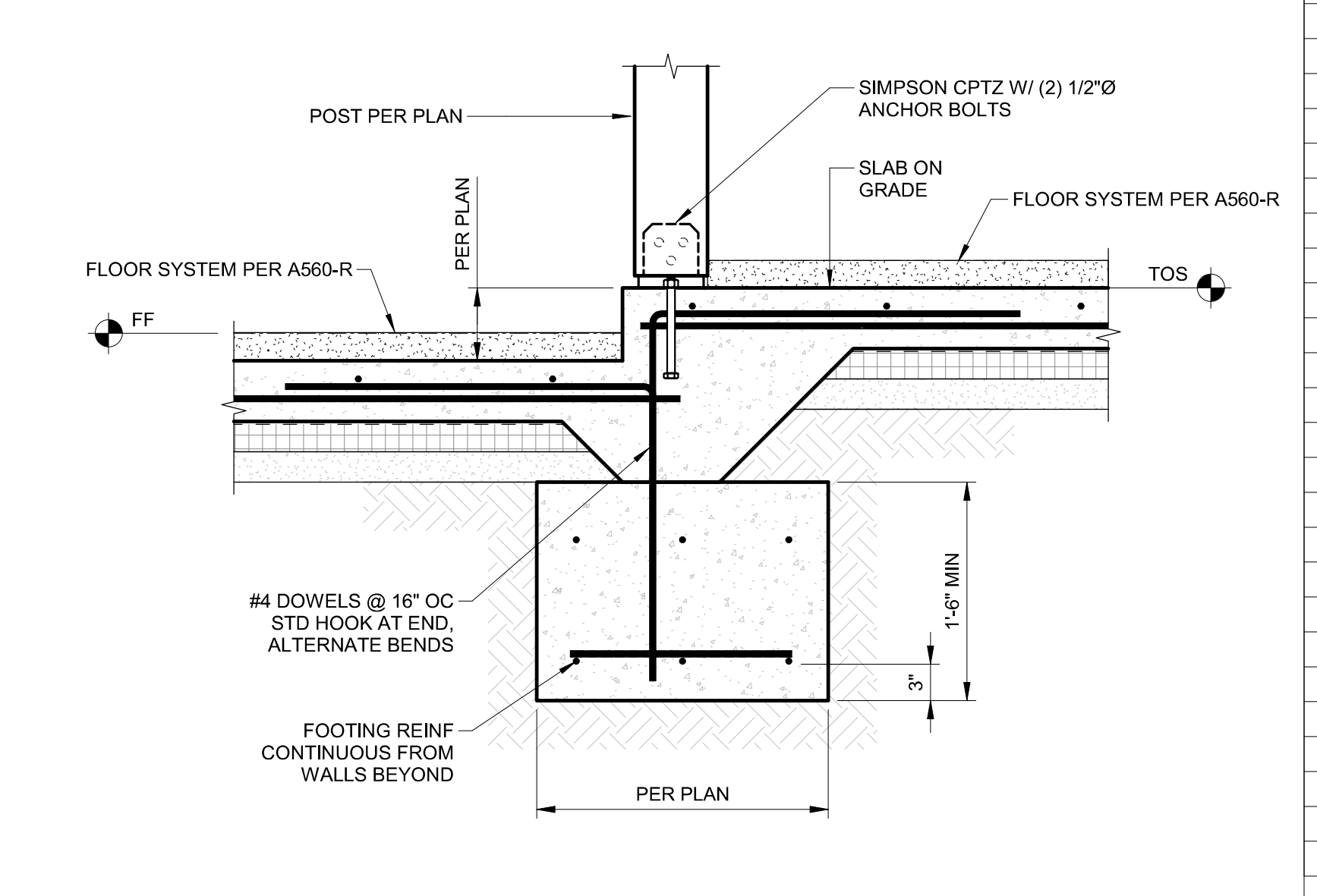
14 INTERIOR FOOTING
SCALE: 1" = 1'-0" (S2.2-R)



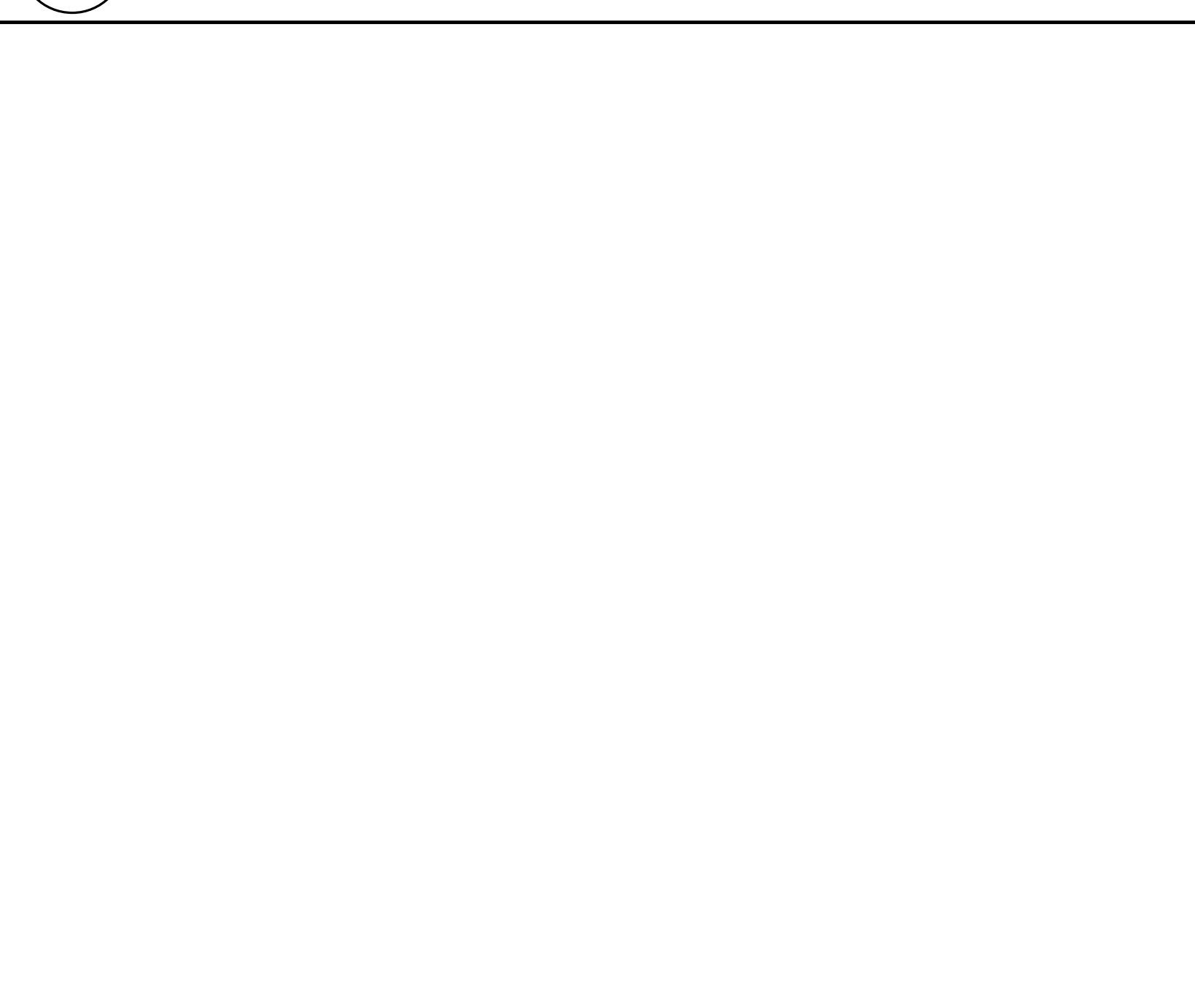
10 GLULAM POST AT EXTERIOR PAD FOOTING
SCALE: 1" = 1'-0" (S2.1-R)(S2.2)



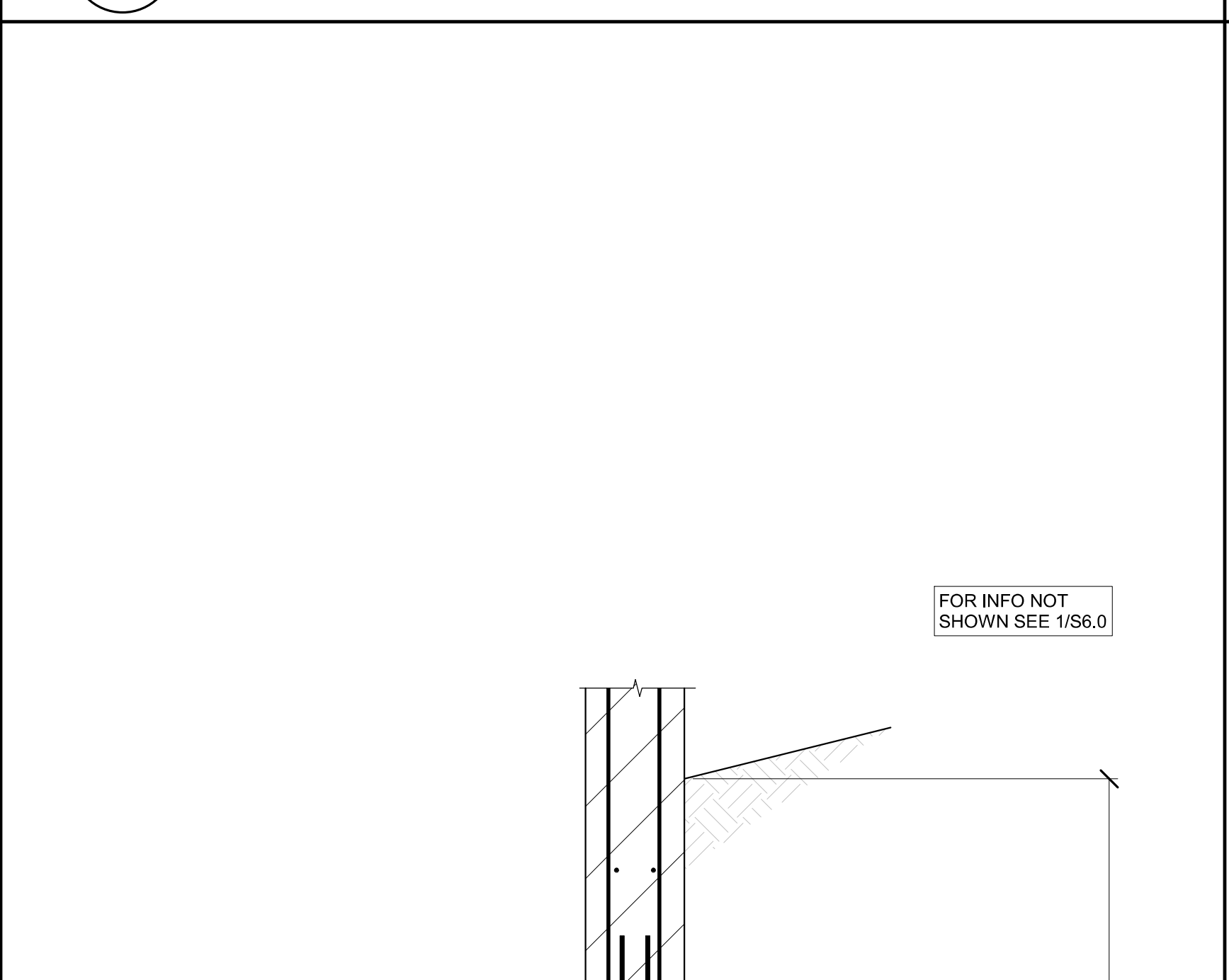
6 EXTERIOR CMU WALL AT DECK POOL LEVEL
SCALE: 1" = 1'-0" (S2.1-R)



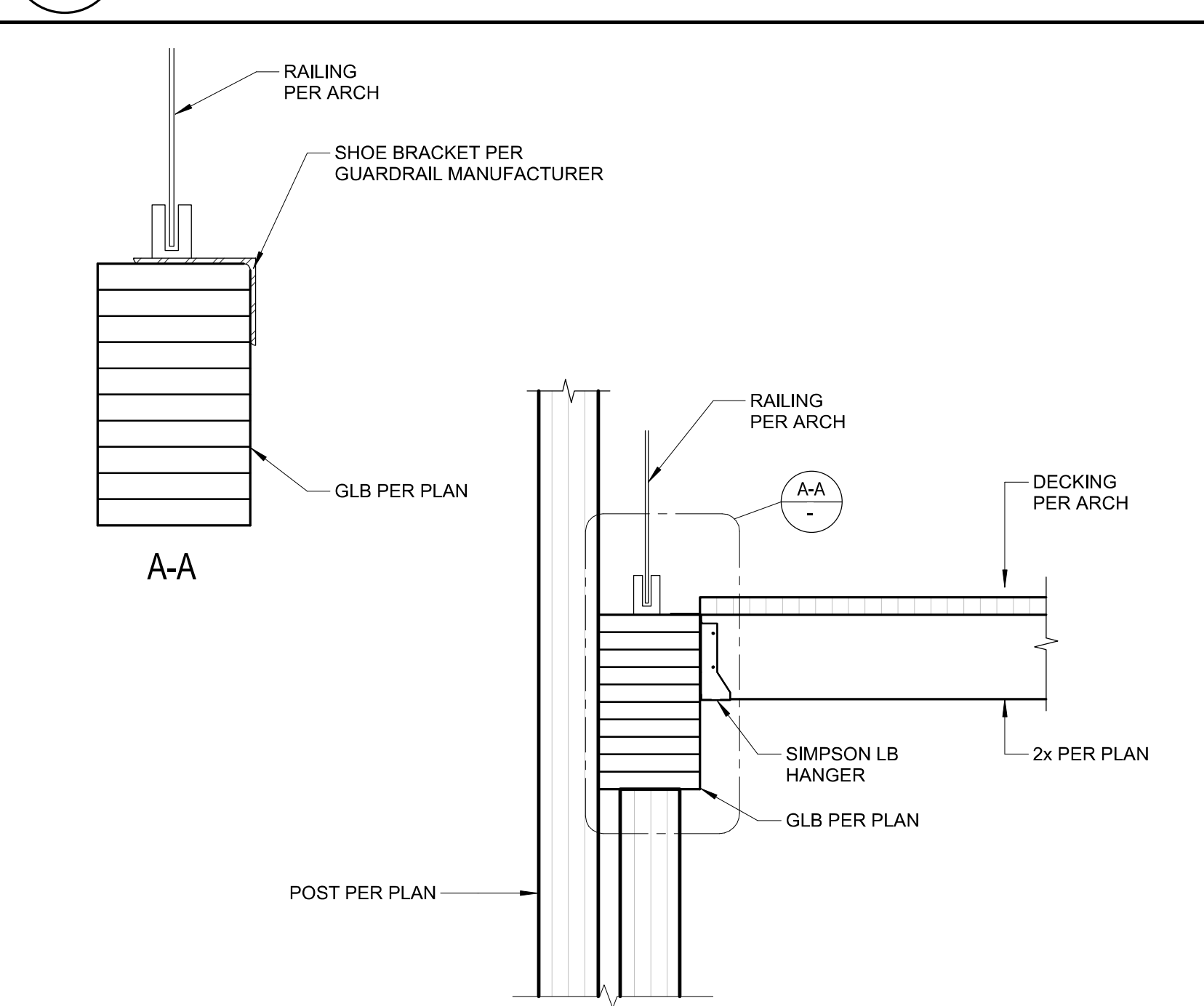
2 GLULAM POST AT STEPPED SLAB
SCALE: 1" = 1'-0" (S2.1-R)



16 ENLARGED PLAN AT POOL DECK WALL
SCALE: 1 1/2" = 1'-0" (S2.1-R)



12 FOOTING AT DRIVEWAY RETAINING WALL
SCALE: 3/4" = 1'-0" (S2.2-R)

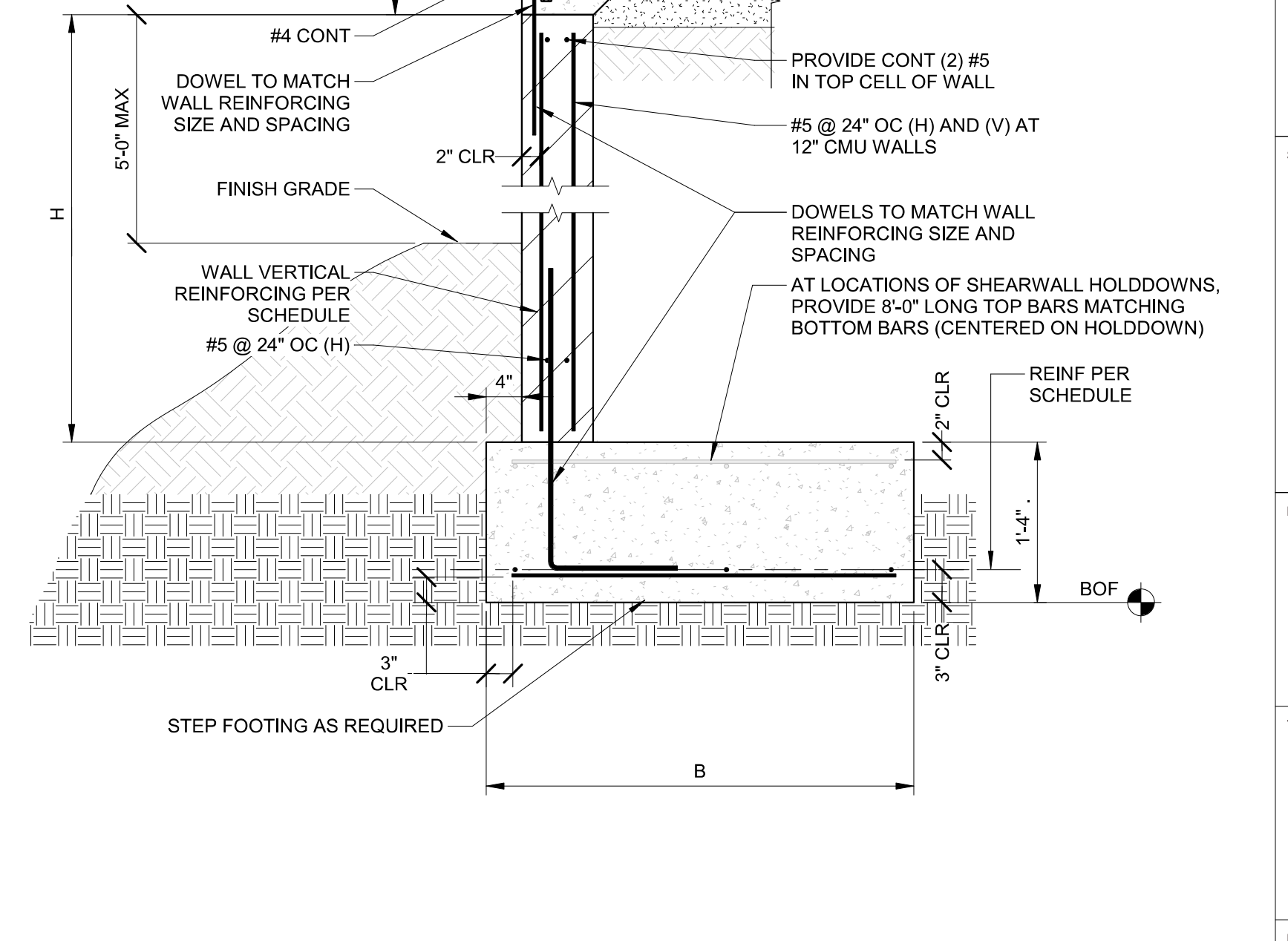


8 EXTERIOR DECK AT POOL LEVEL
SCALE: 1" = 1'-0" (S2.1-R)

RETAINING WALL SCHEDULE

RETAINED HEIGHT "H"	FOOTING WIDTH "B"	FOOTING REINFORCEMENT	WALL REINFORCEMENT
10'-0" MAX	4'-0"	LONG WAY: (5) #5 CONT SHORT WAY: #5 @ 16" OC	12" CMU WITH #6 @ 16" OC (V) #5 @ 24" OC (H) EF
8'-0" MAX	4'-0"	LONG WAY: (5) #5 CONT SHORT WAY: #5 @ 16" OC	8" CMU WITH #6 @ 16" OC (V) #5 @ 24" OC (H)
6'-0" MAX	3'-0"	LONG WAY: (5) #5 CONT SHORT WAY: #5 @ 16" OC	8" CMU WITH #5 @ 16" OC (V) #5 @ 24" OC (H)
4'-0" MAX	2'-0"	LONG WAY: (3) #5 CONT SHORT WAY: #5 @ 16" OC	8" CMU WITH #5 @ 16" OC (V) #5 @ 24" OC (H) AT CL

NOTES:
1. START BOTTOM HORIZONTAL BAR IN FIRST BLOCK.
2. ALL LAP SPLICES PER ACI 318 CLASS B, SEE TYPICAL DETAILS.



4 CMU STEM WALL FOOTING
SCALE: 3/4" = 1'-0" (S2.1-R)

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Project Status

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TAQUINO engineering

CLIENT:

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KEY PLAN

STAMP

REGISTERED PROFESSIONAL ENGINEER
DAVID B. TAQUINO
No. 62951
Exp. 6-30-24
STATE OF CALIFORNIA

PROJECT

INFINITY RESIDENCE

TITLE

FOUNDATION DETAILS

PROJECT

W0103

DATE

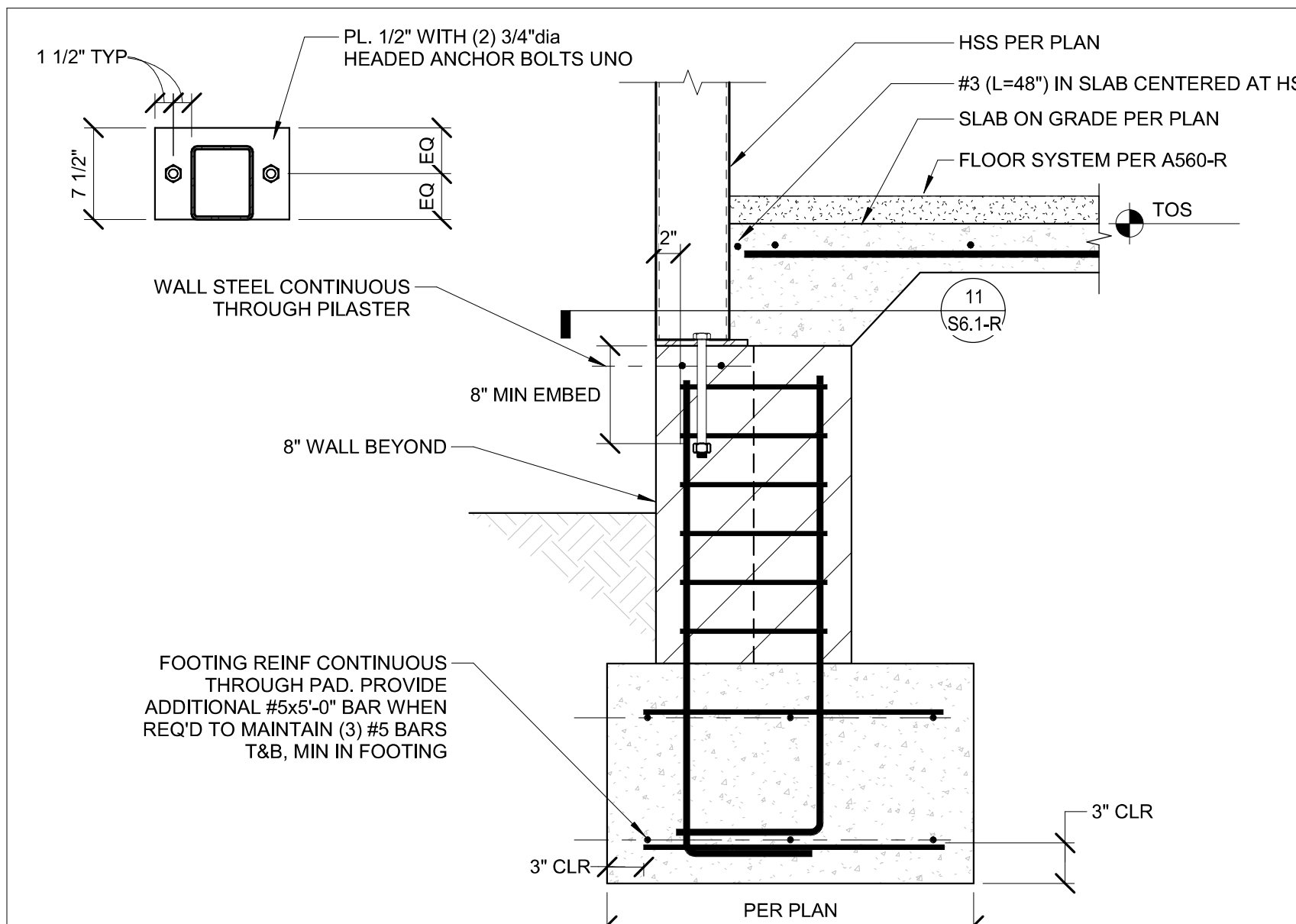
09/11/23

SCALE

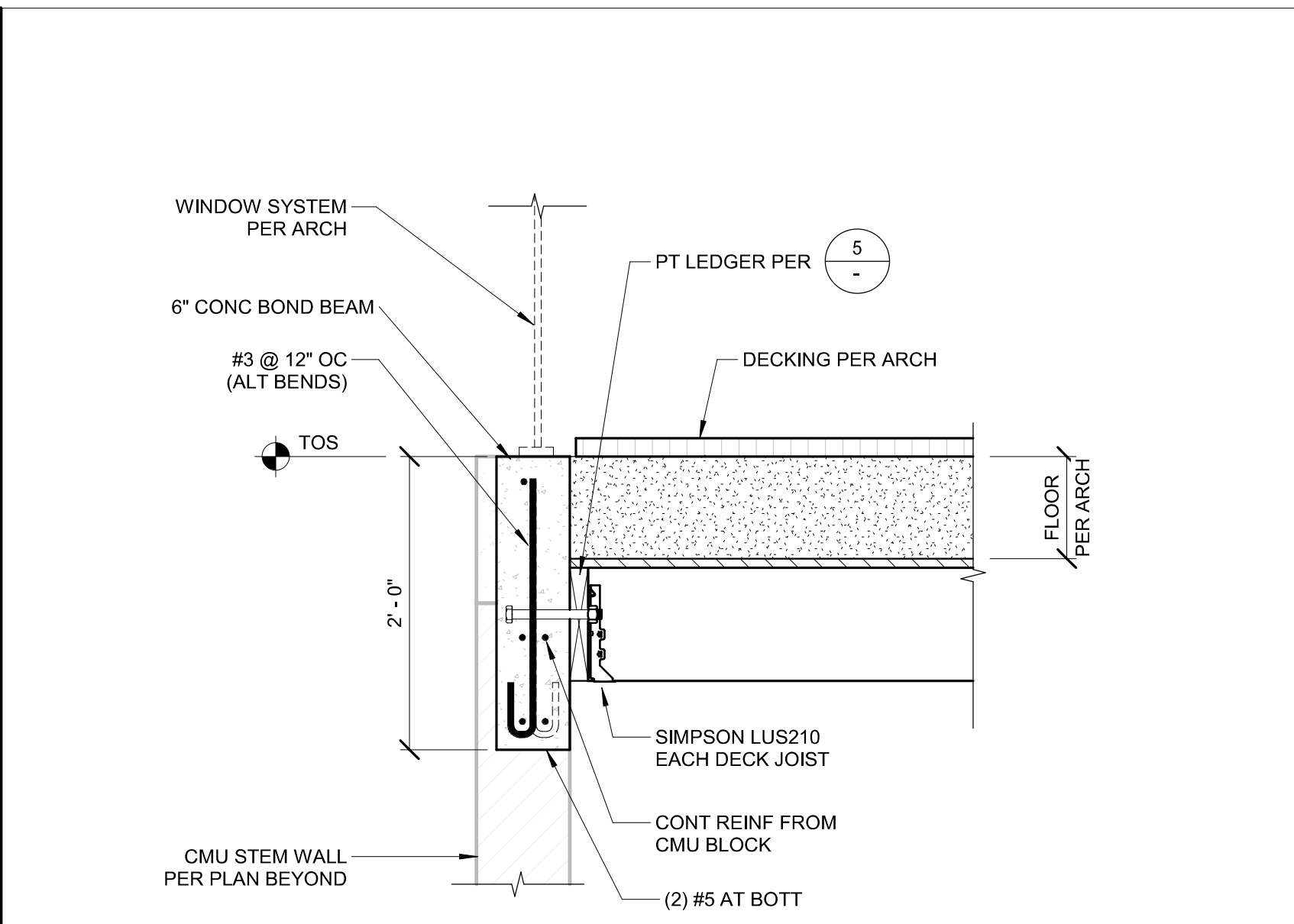
As Indicated

PROJECT

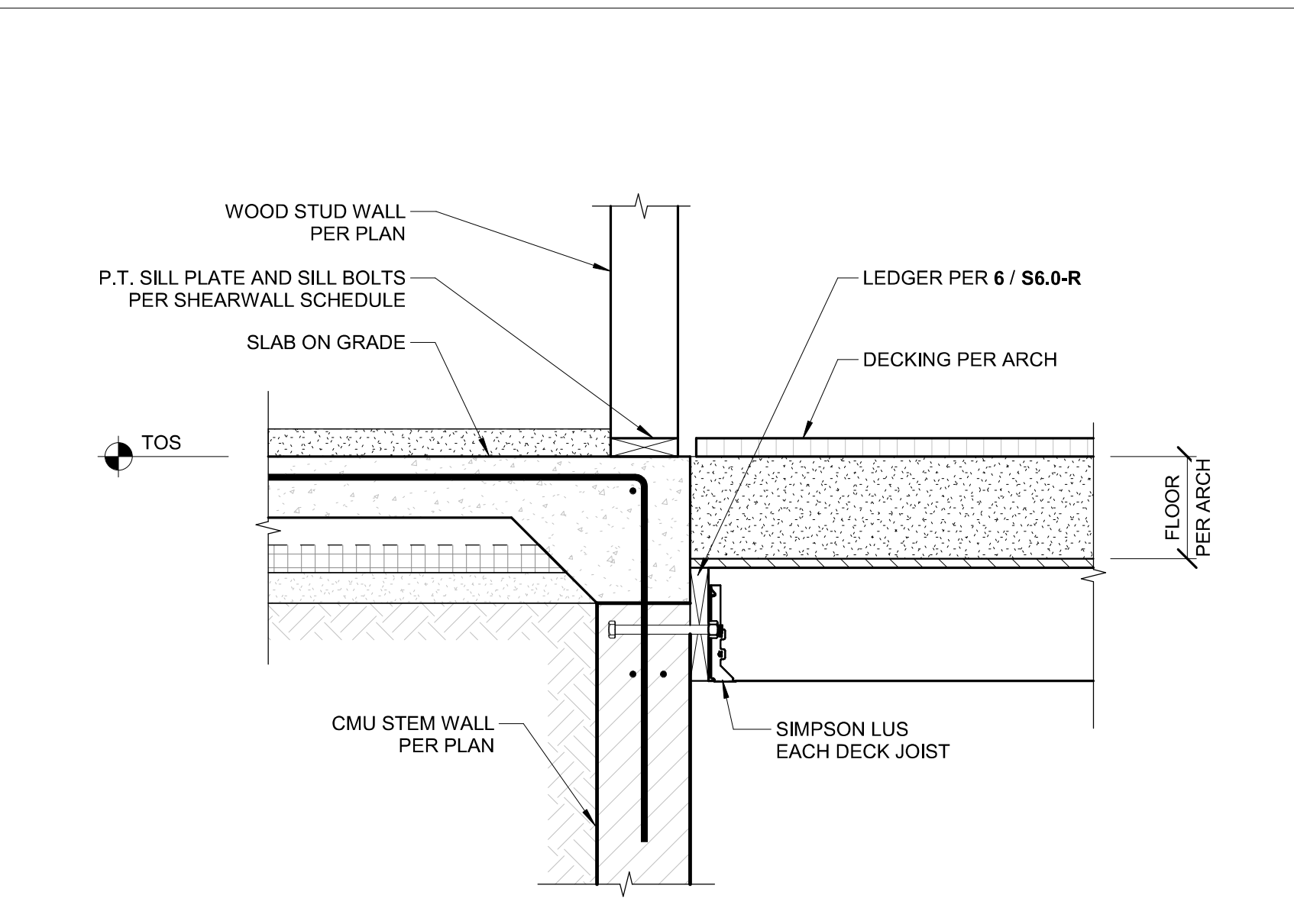
S6.0-R



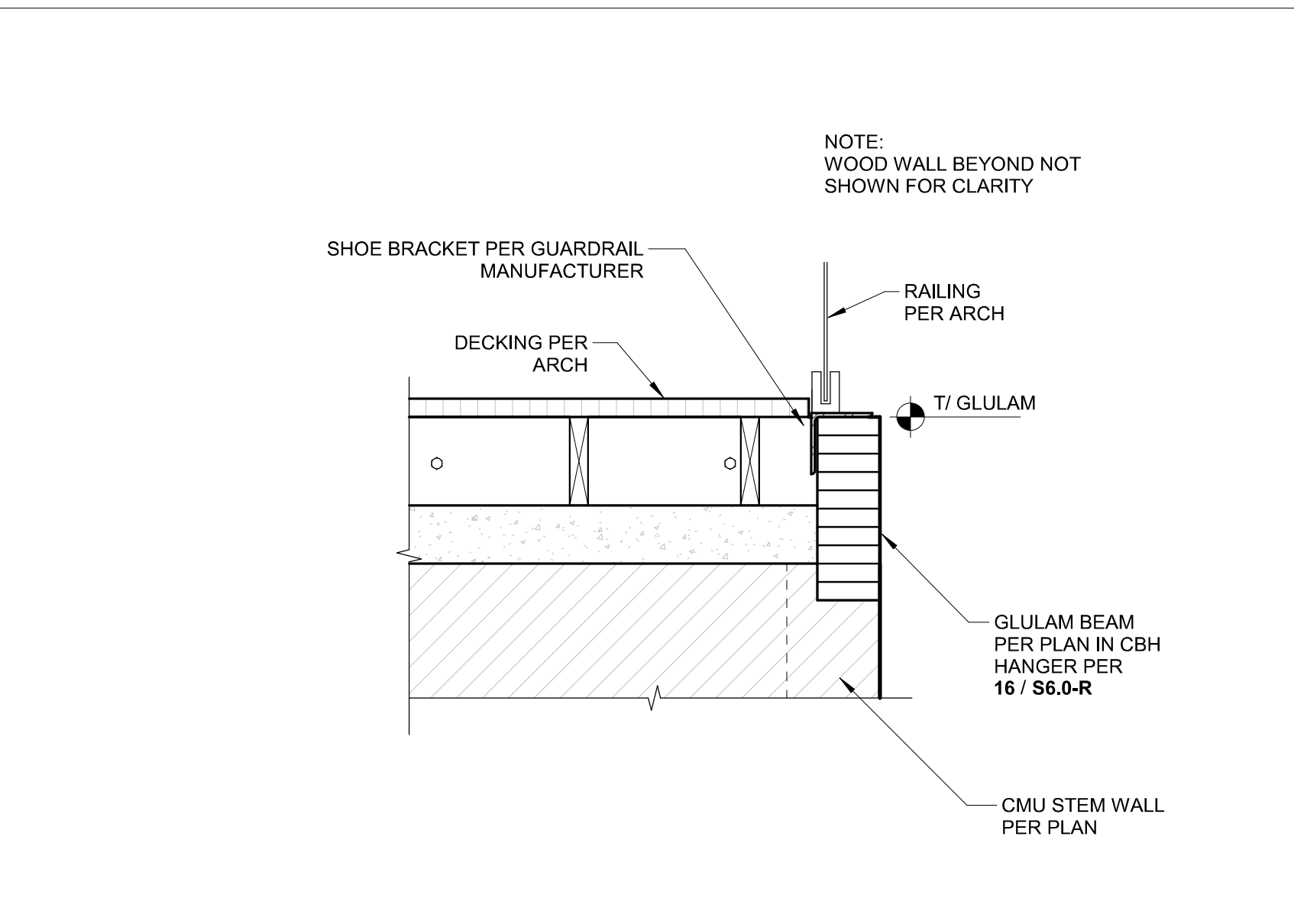
13 HSS ATOP CONTINUOUS FOOTING
SCALE: 1" = 1'-0" (S2.1-R)



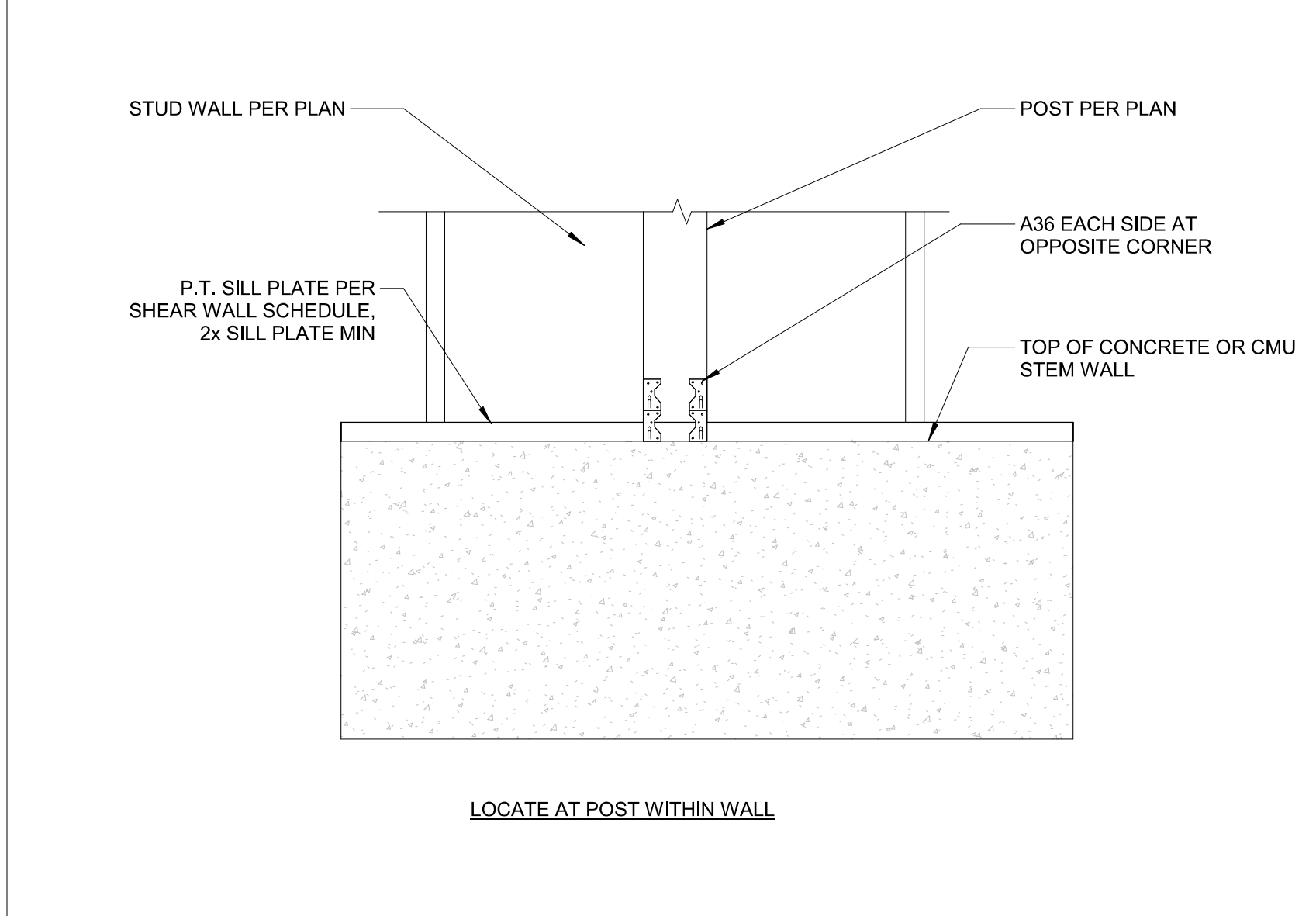
9 CONC BOND BEAM AT TUNNEL
SCALE: 1" = 1'-0" (S2.2-R)



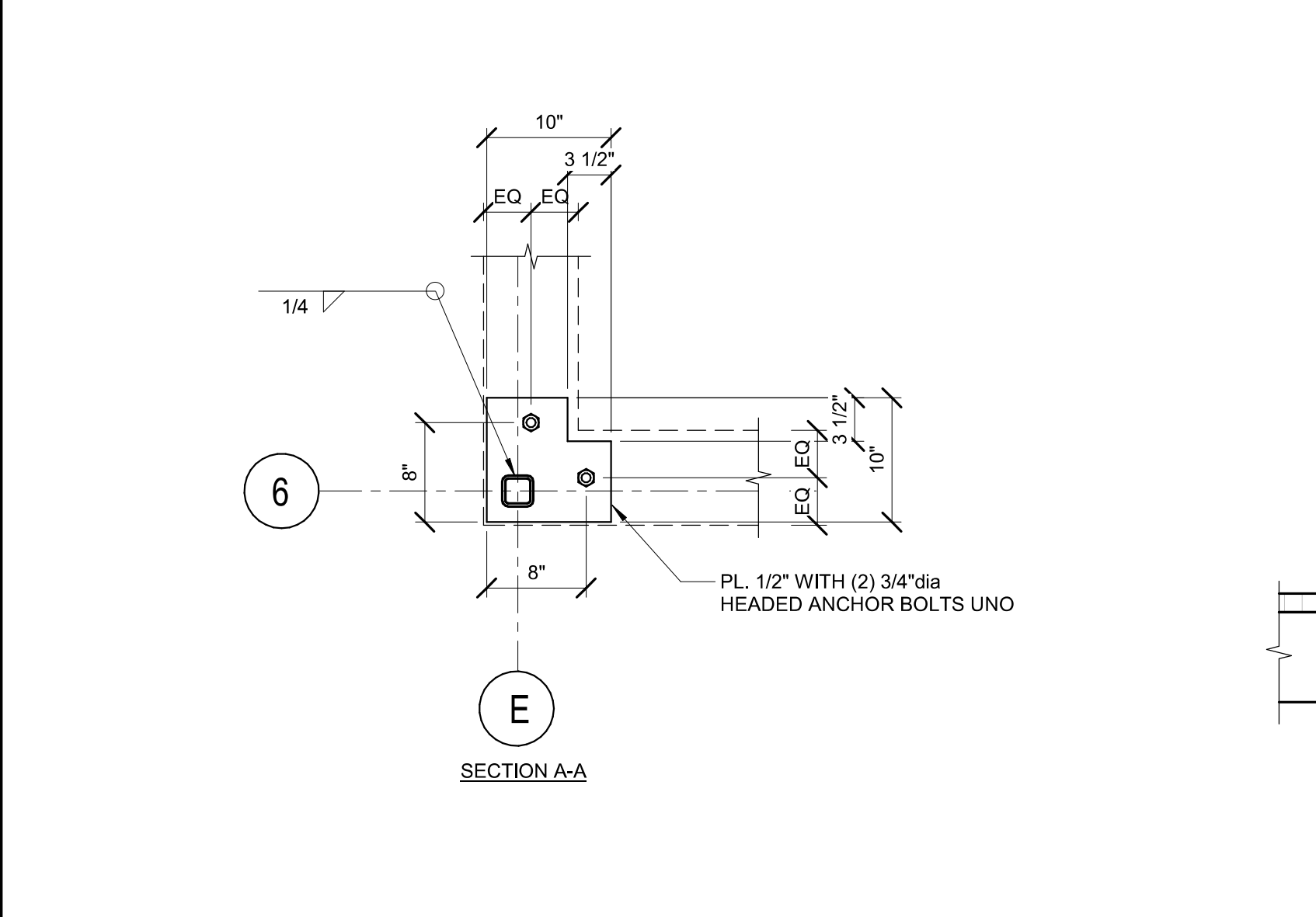
5 CMU WALL AT TUNNEL
SCALE: 1" = 1'-0" (S2.2-R)



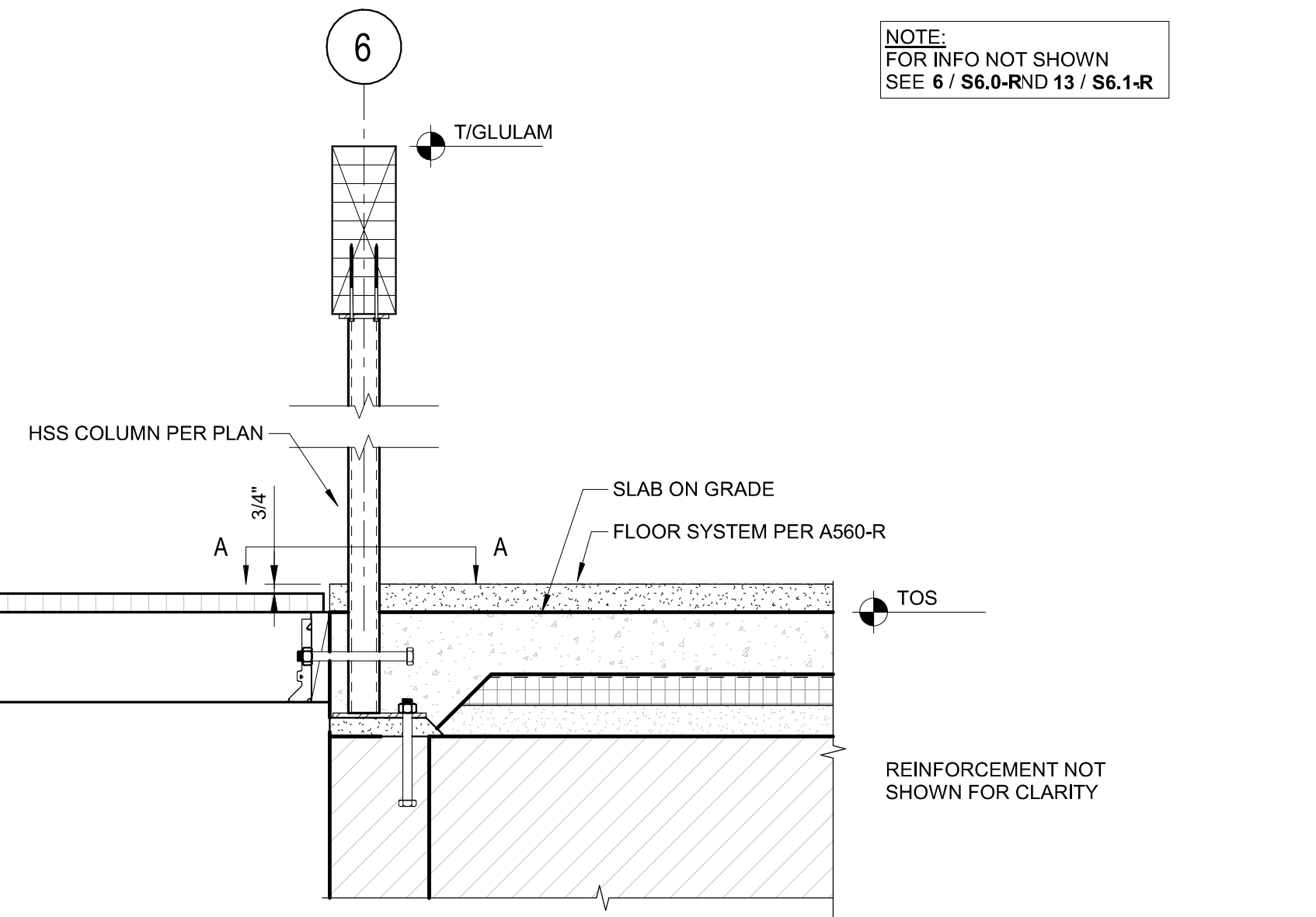
1 GLULAM BEAM TO CMU WALL CONNECTION
SCALE: 1" = 1'-0" (S2.1-R)



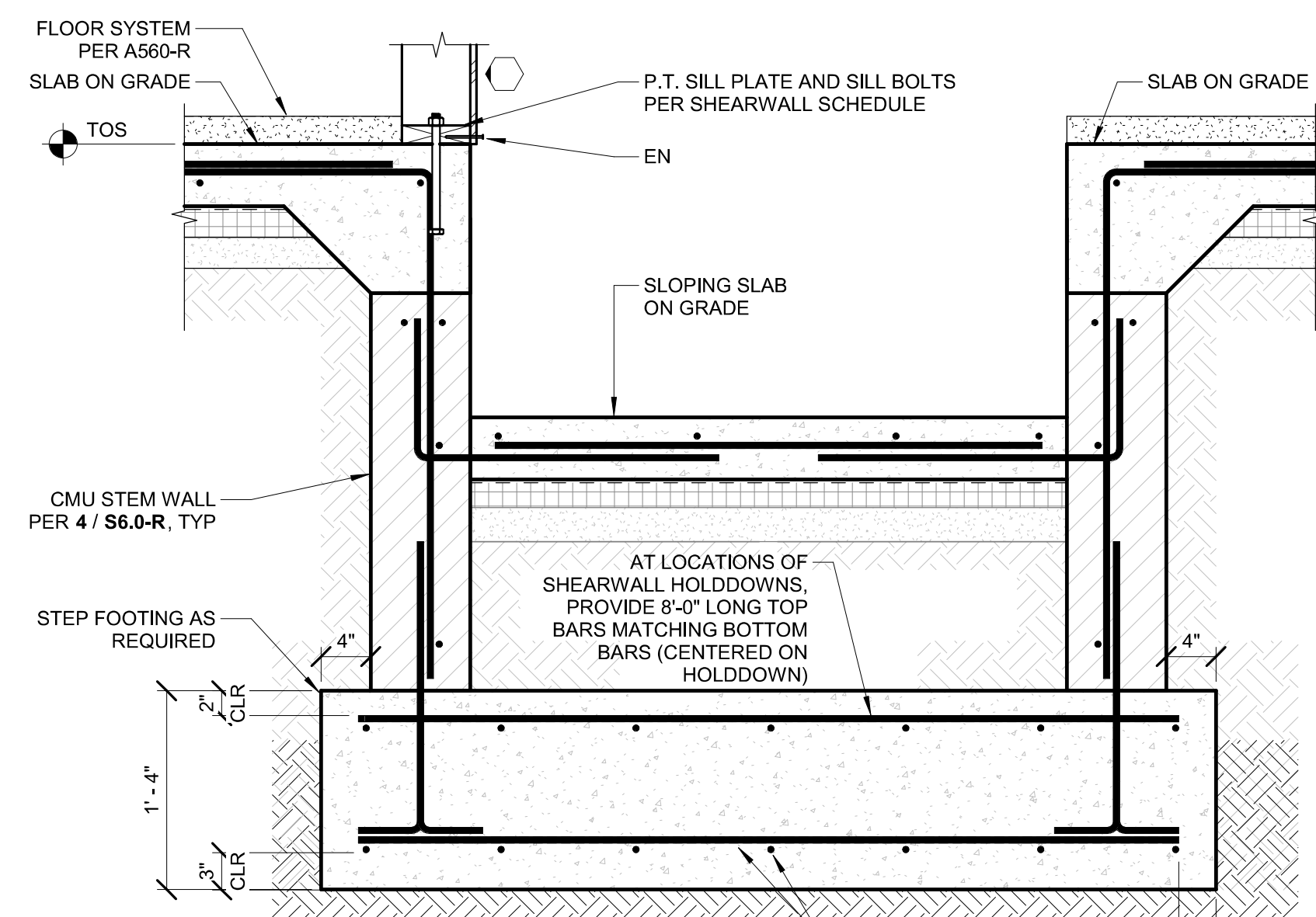
14 POST CONNECTION @ CONTINUOUS FOOTING
SCALE: 1" = 1'-0"



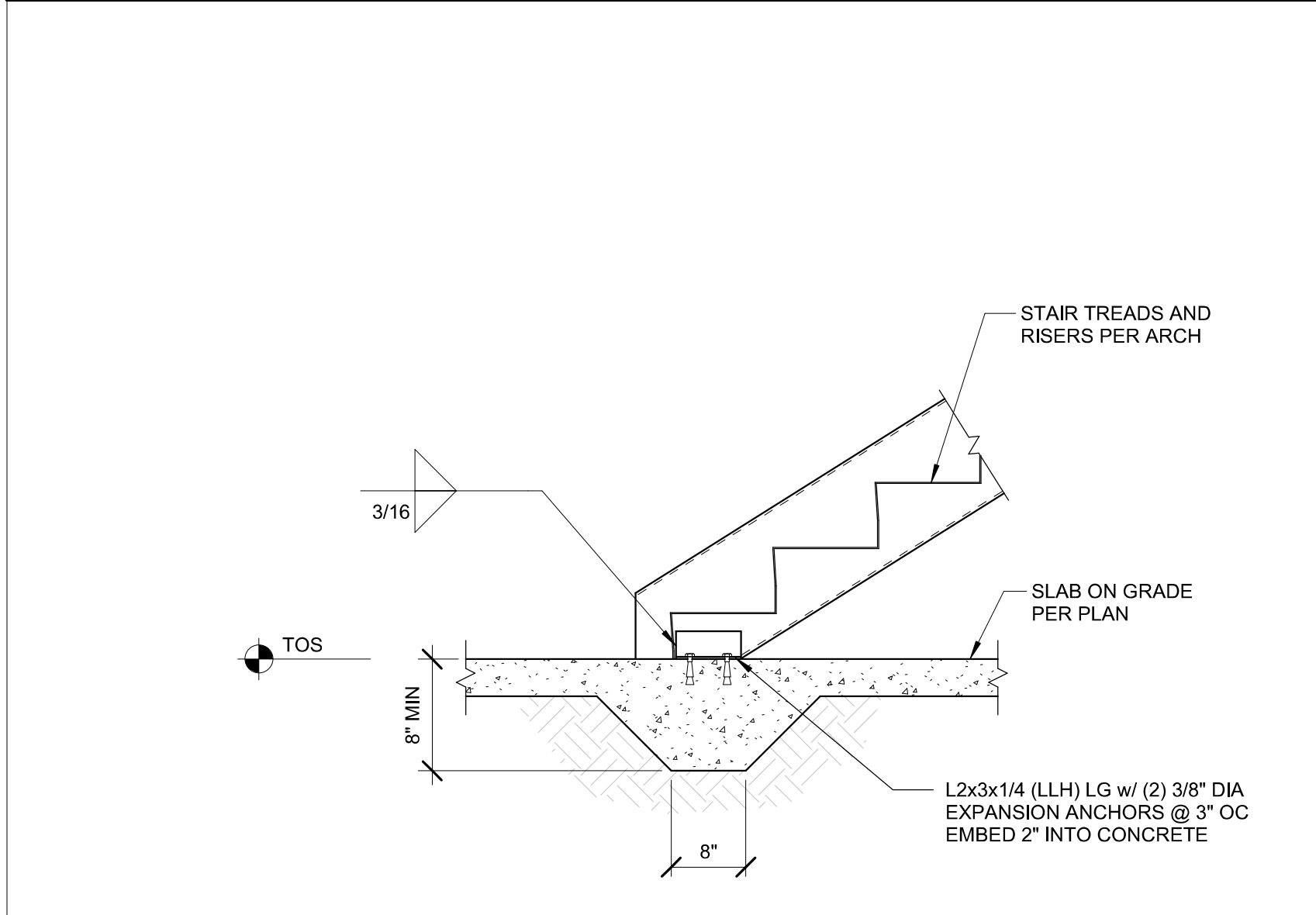
6 CORNER STEEL COLUMN DETAIL
SCALE: 1" = 1'-0" (S2.1-R)



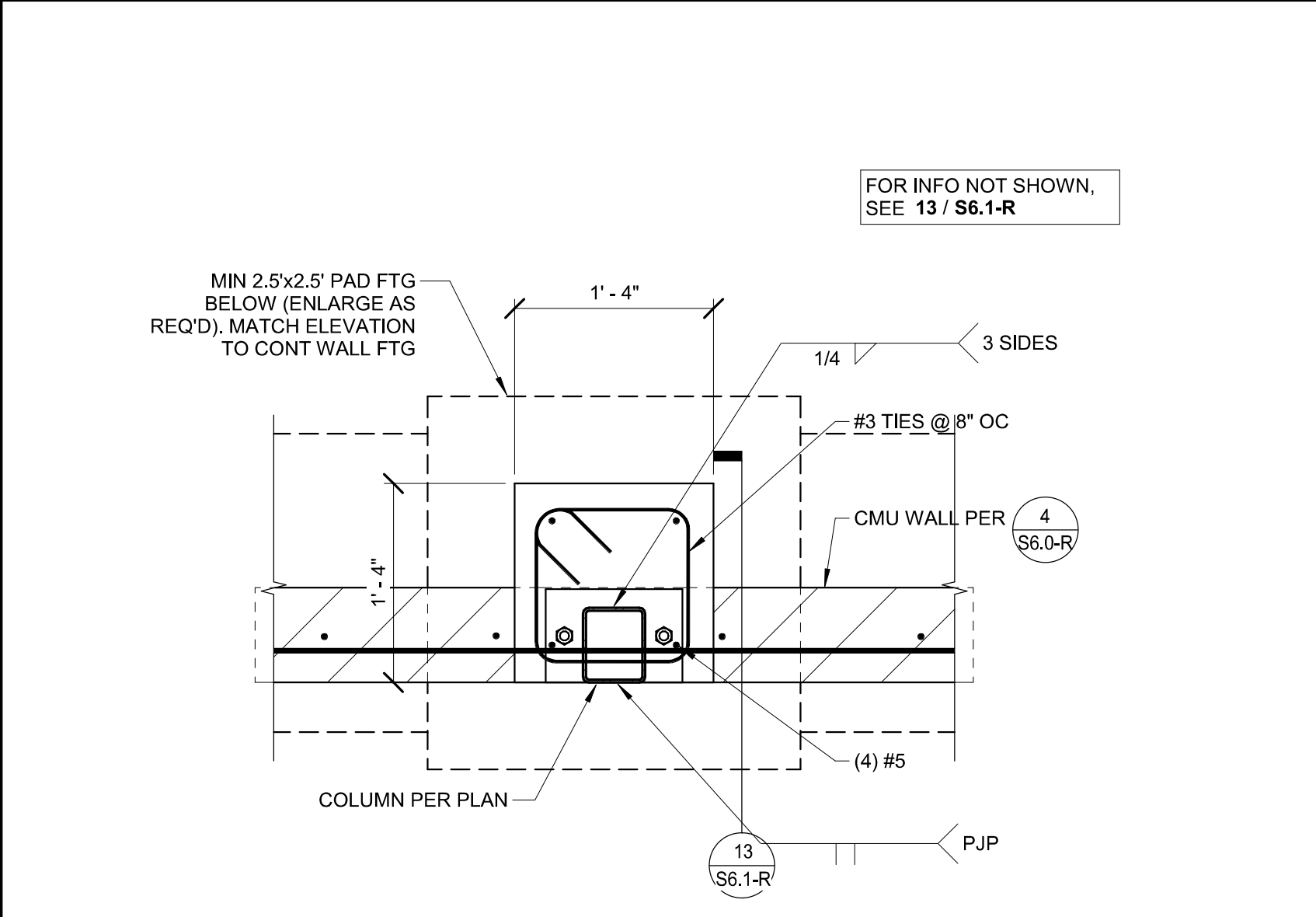
2 STEPPED STEM WALL AT STAIR
SCALE: 1" = 1'-0" (S2.1-R)



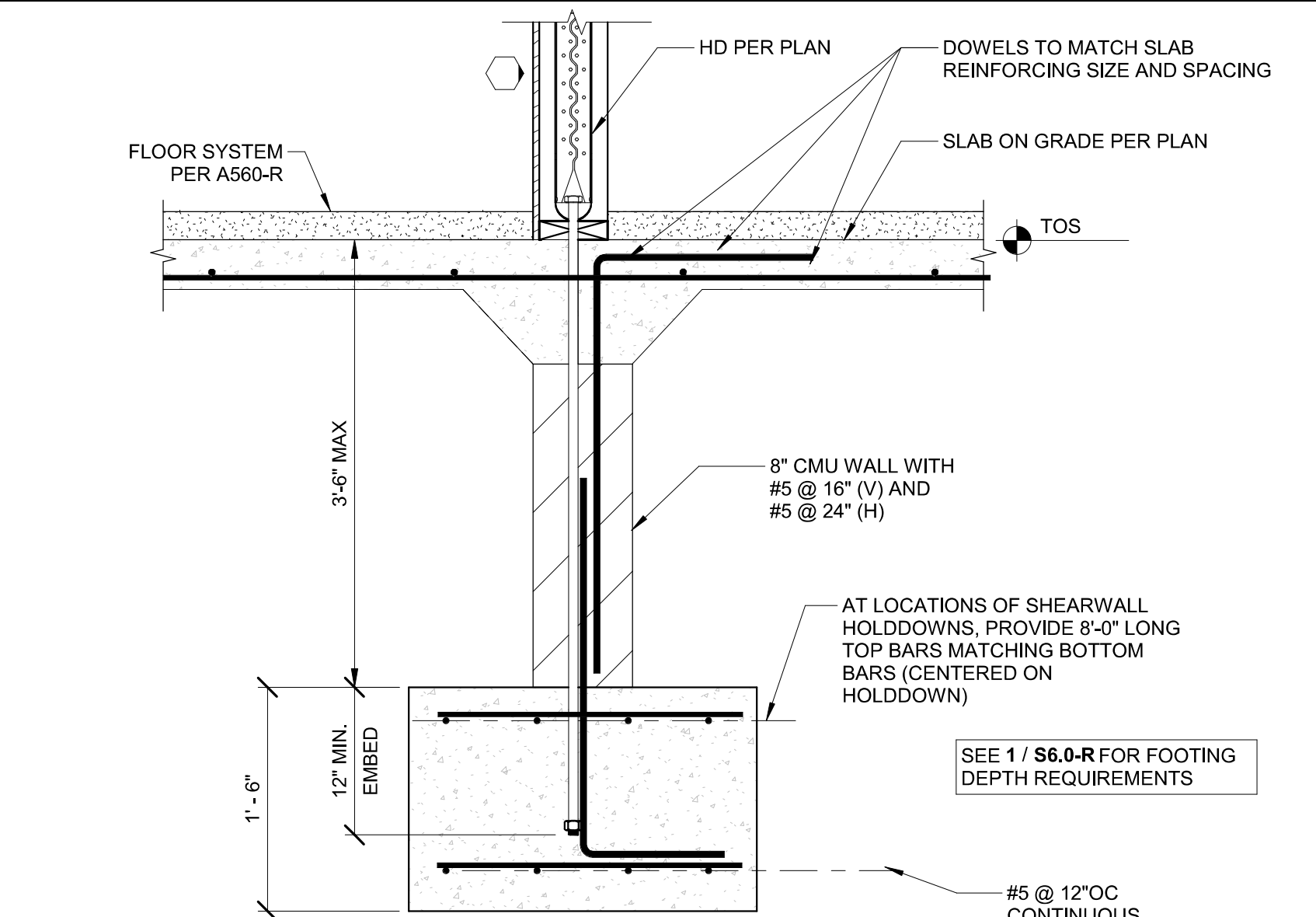
6 CORNER STEEL COLUMN DETAIL
SCALE: 1" = 1'-0" (S2.1-R)



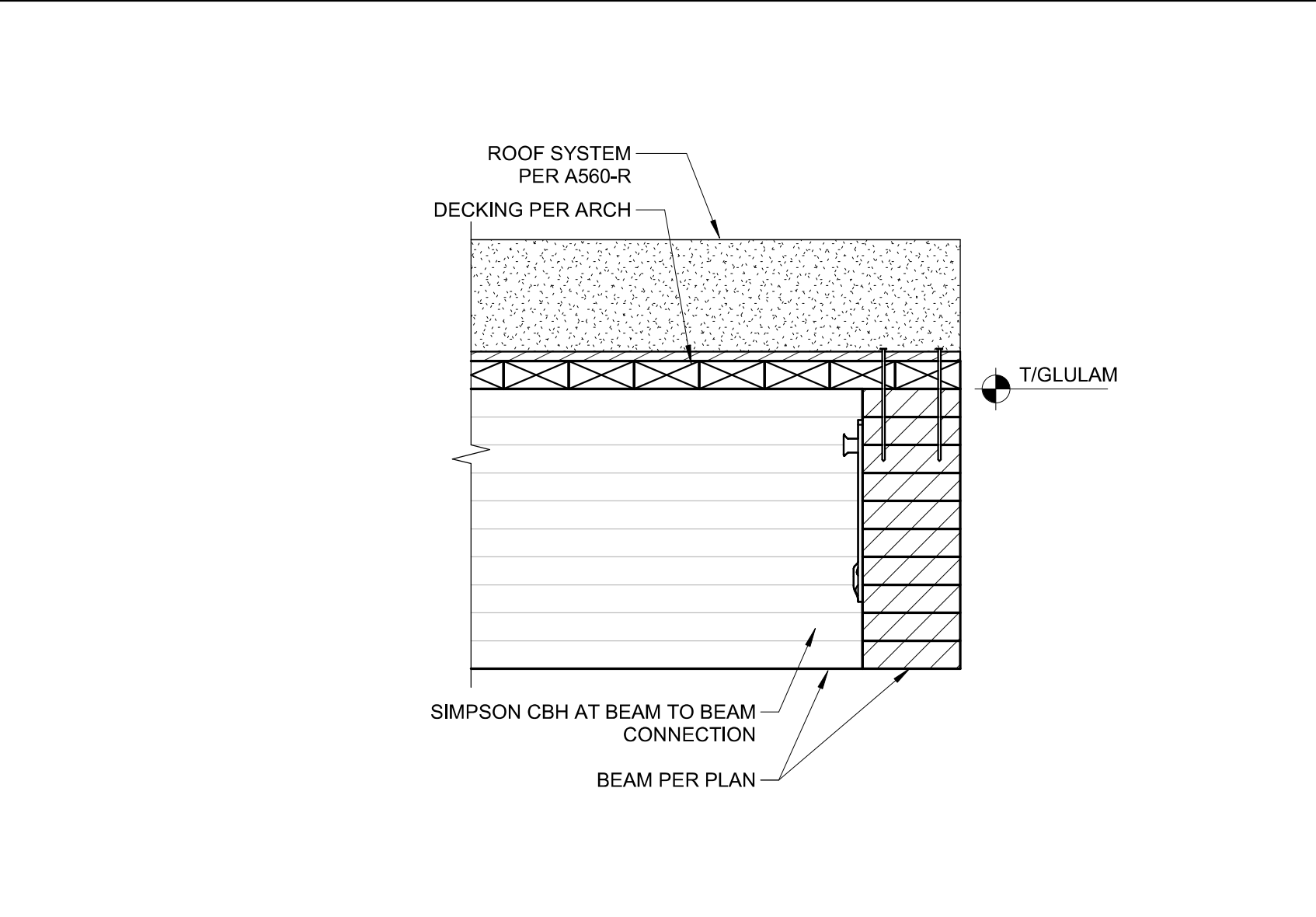
15 STEEL STAIR AT SLAB ON GRADE
SCALE: 3/4" = 1'-0" (S2.2-R)



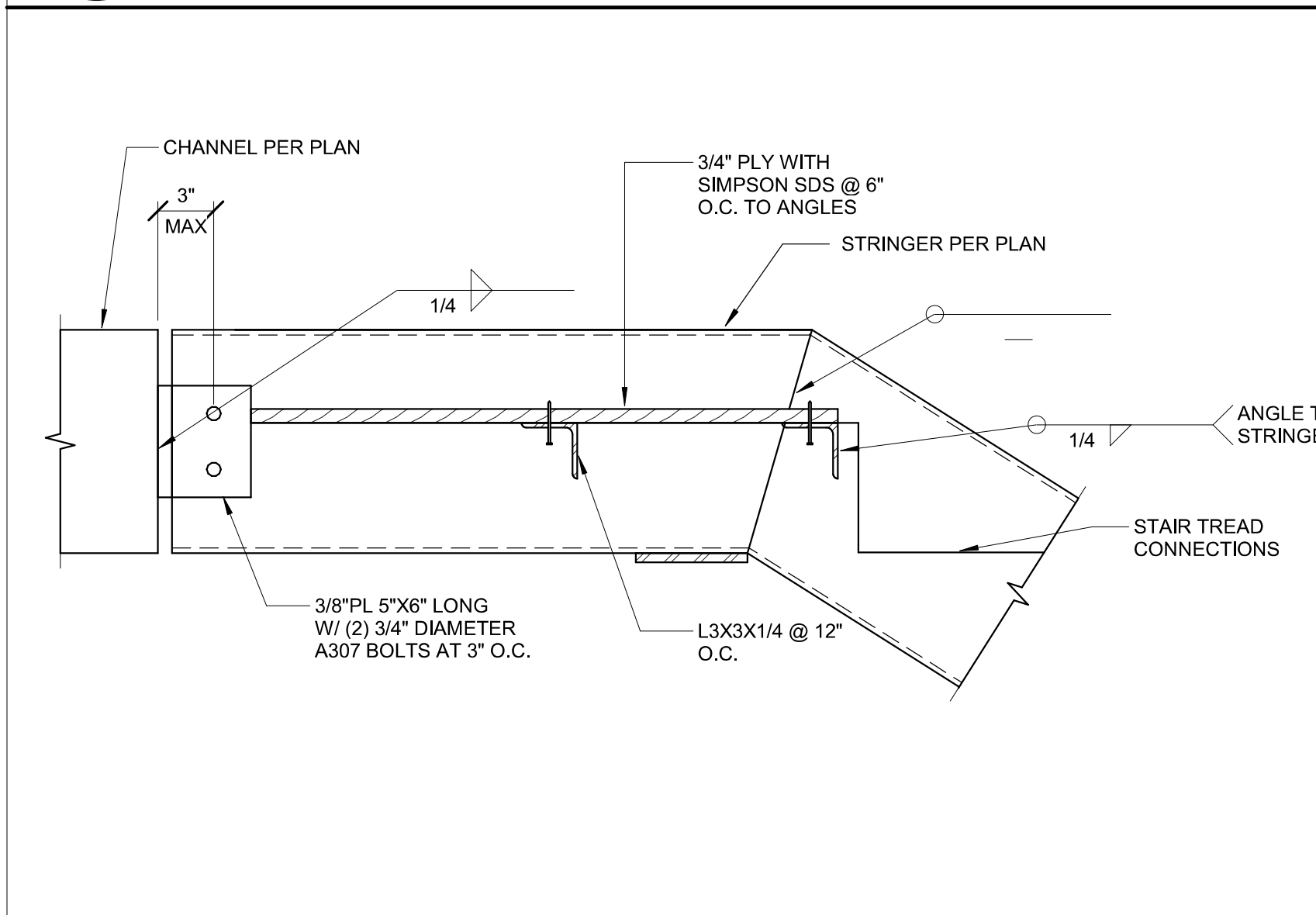
11 HSS ATOP PILASTER - PLAN
SCALE: 1" = 1'-0" (S2.2-R)



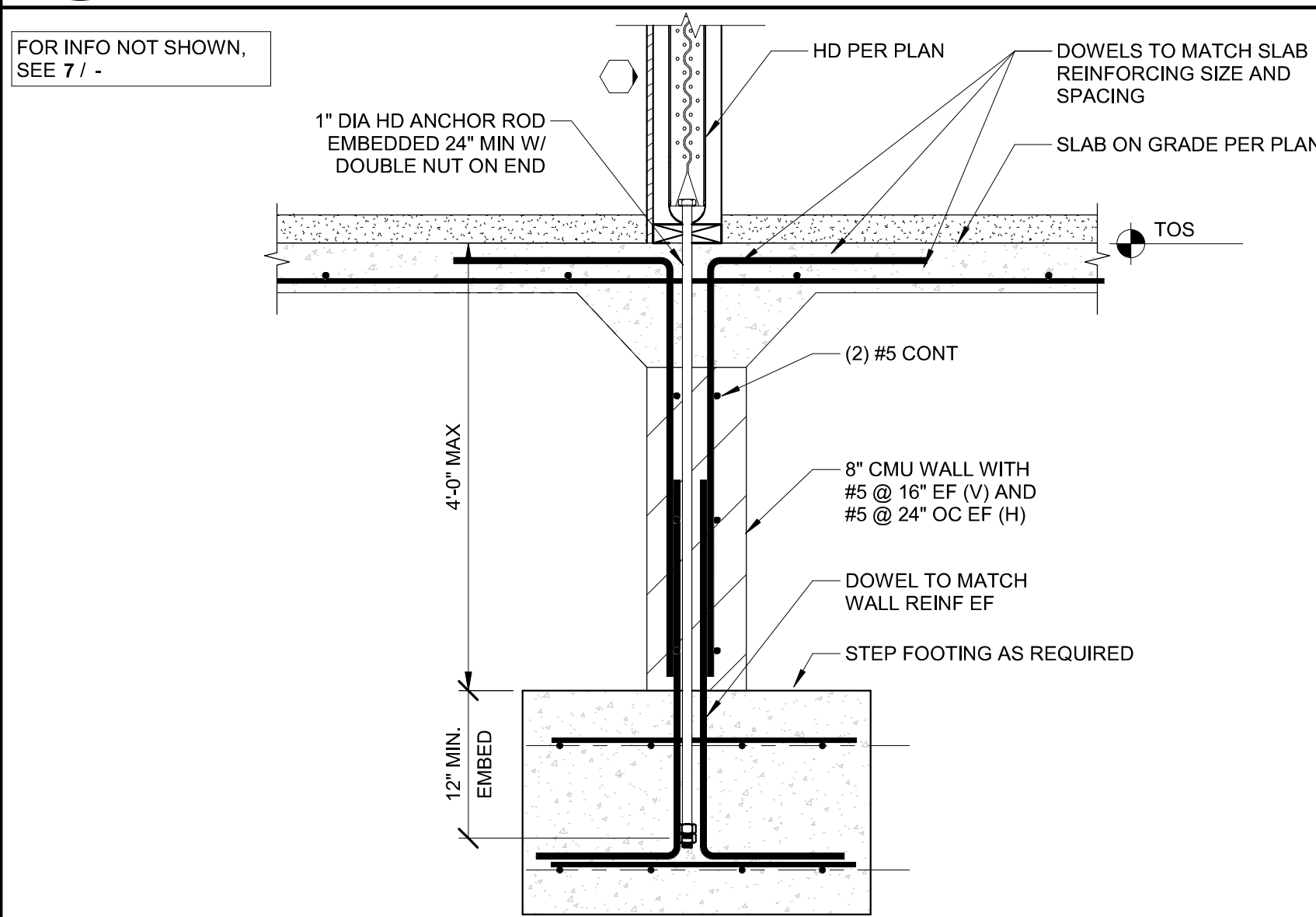
7 FOOTING UNDER GRID 3 SHEARWALLS AT HD14
SCALE: 1" = 1'-0" (S2.1-R)S2.2)



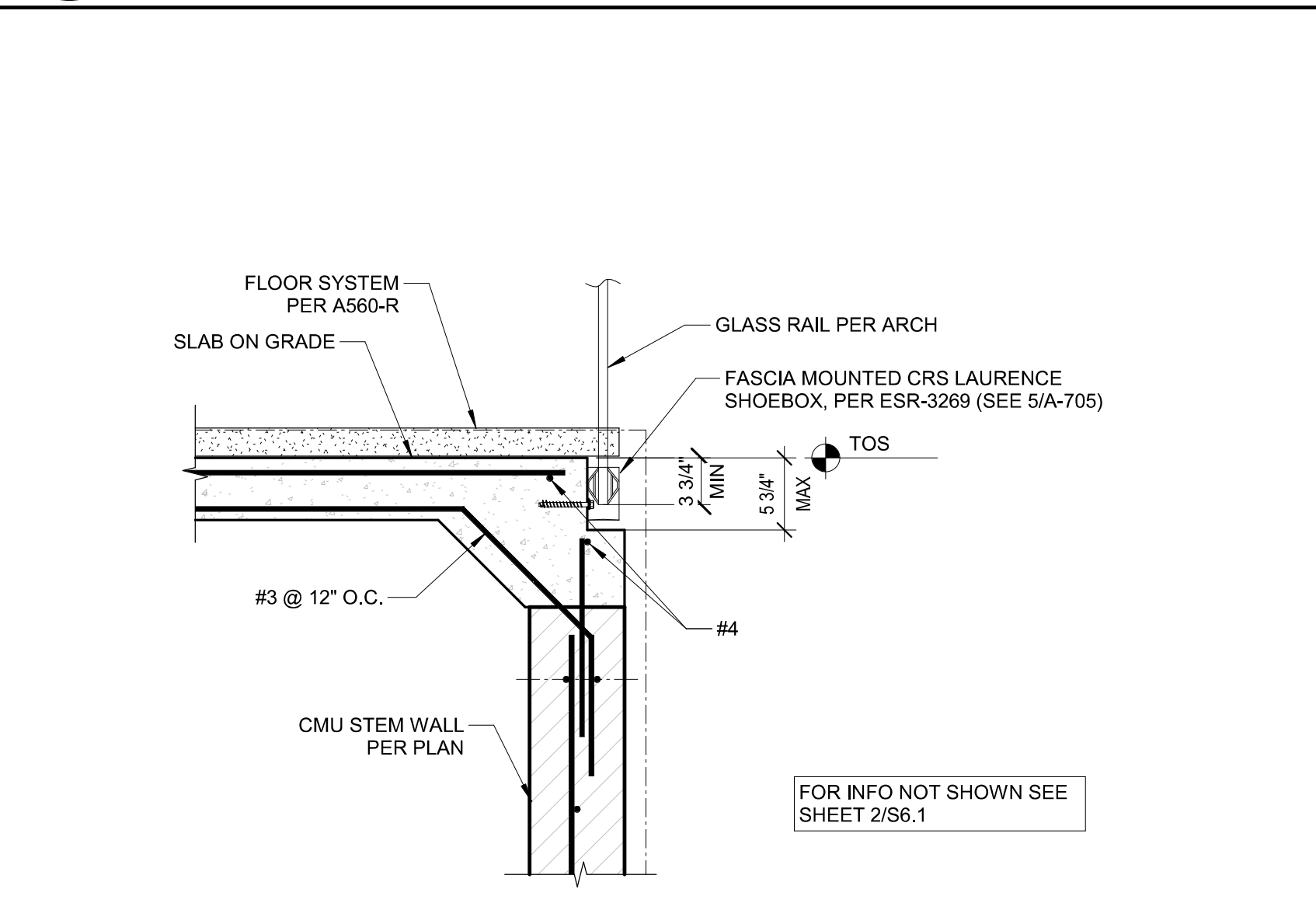
3 ENLARGED PLAN AT POOL DECK CANTILEVER
SCALE: 1 1/2" = 1'-0"



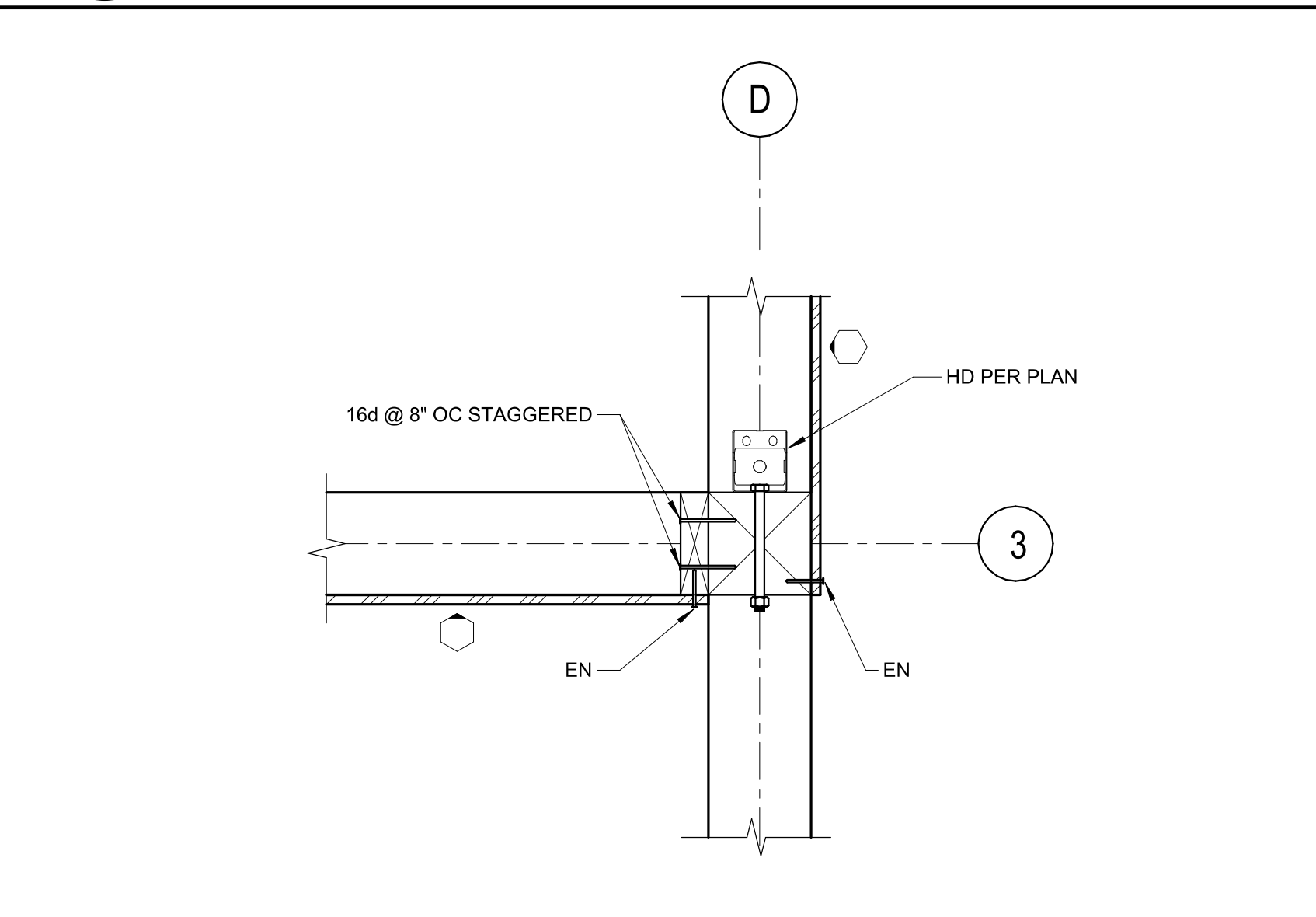
16 STAIR LANDING CAP PL
SCALE: 1 1/2" = 1'-0" (S2.3-R)



12 FOOTING AT GRID D
SCALE: 1" = 1'-0" (S2.2-R)



8 GUARDRAIL ON CONCRETE SLAB EDGE
SCALE: 1" = 1'-0" (S2.2-R)



4 ENLARGED PLAN AT SHEARWALL INTERSECTION
SCALE: 1 1/2" = 1'-0" (S2.2-R)

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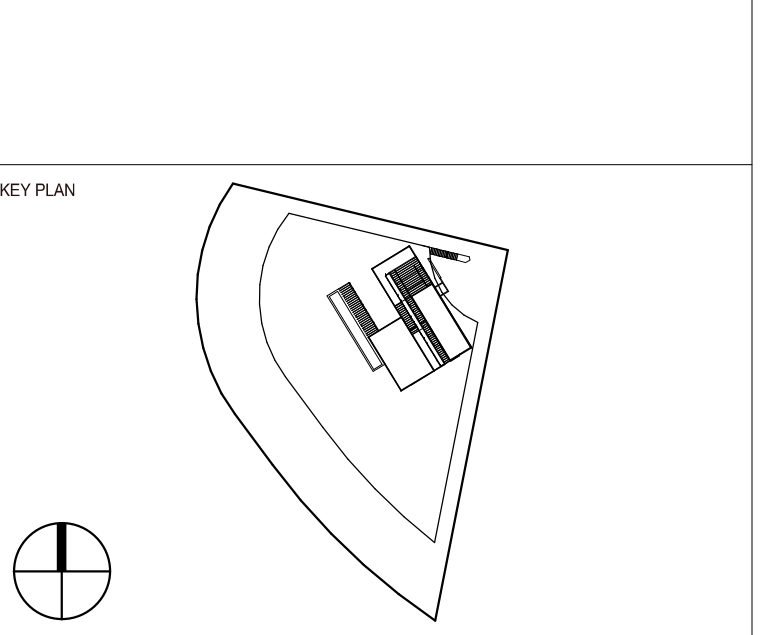
Project Status

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CONSULTANT
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KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
DAVID B. TAQUINO
No. 62951
Exp 6-30-24
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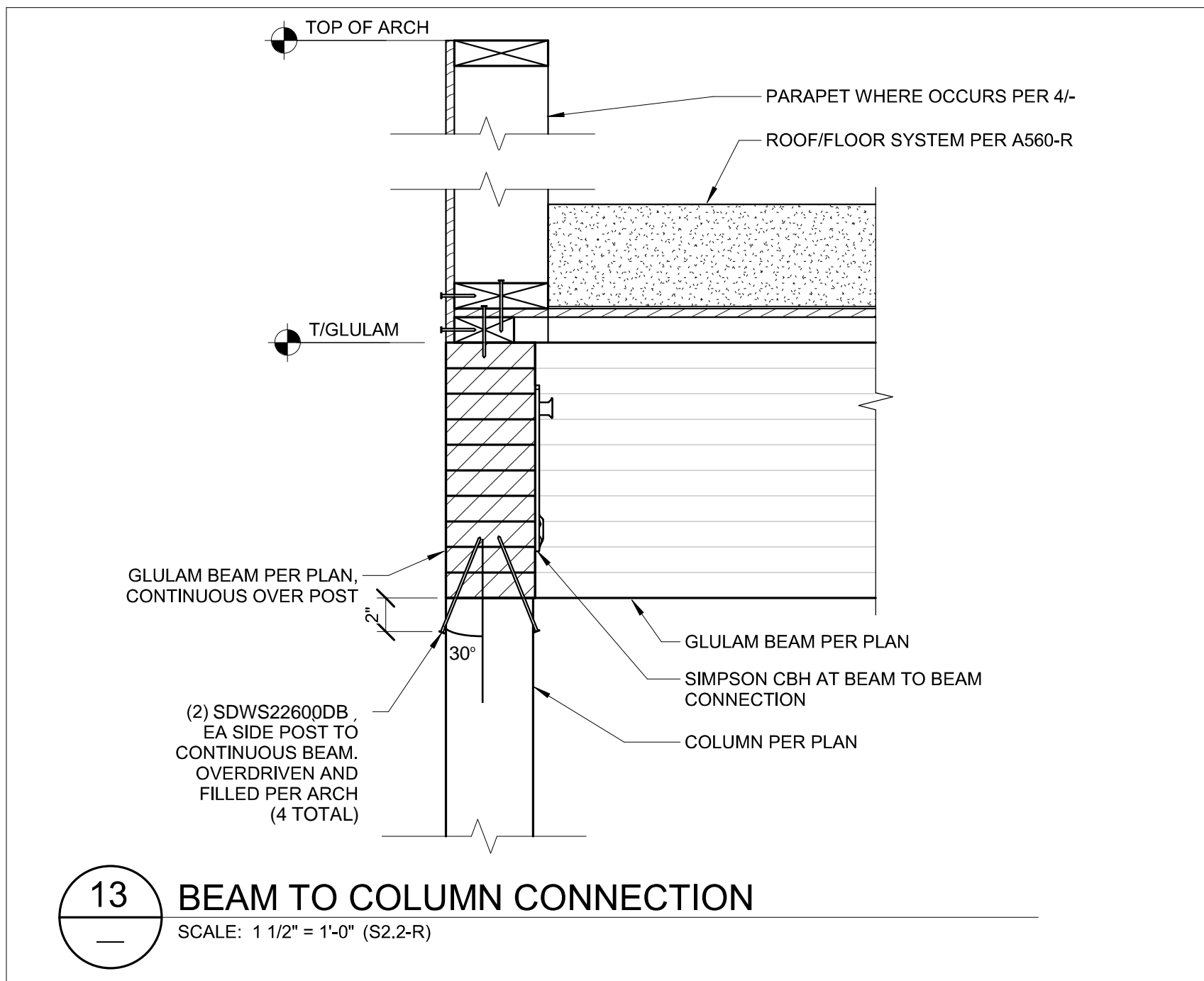
PROJECT
INFINITY RESIDENCE

TITLE
FOUNDATION DETAILS

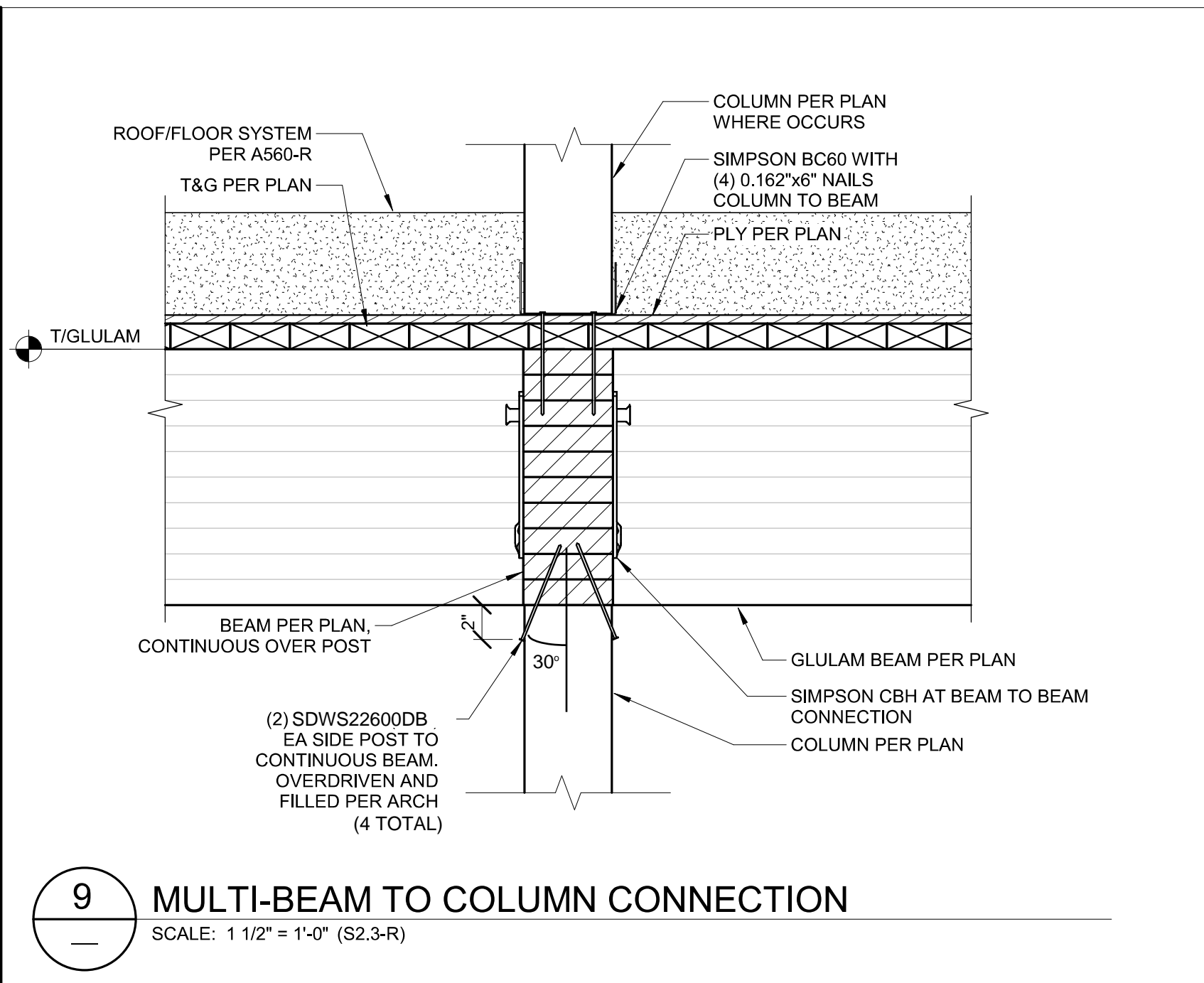
PROJECT
W0103

DATE
09/11/23

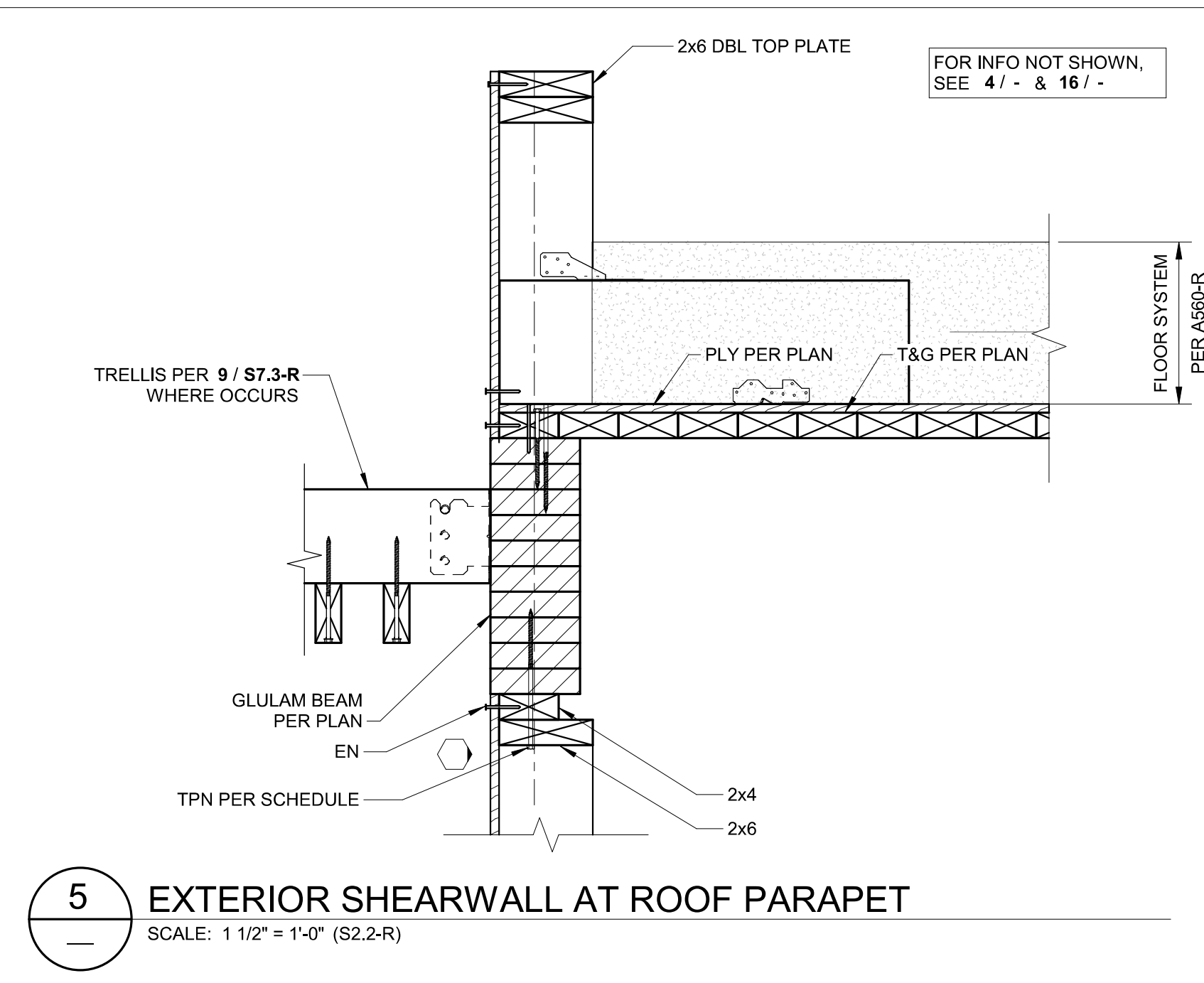
SCALE
As indicated



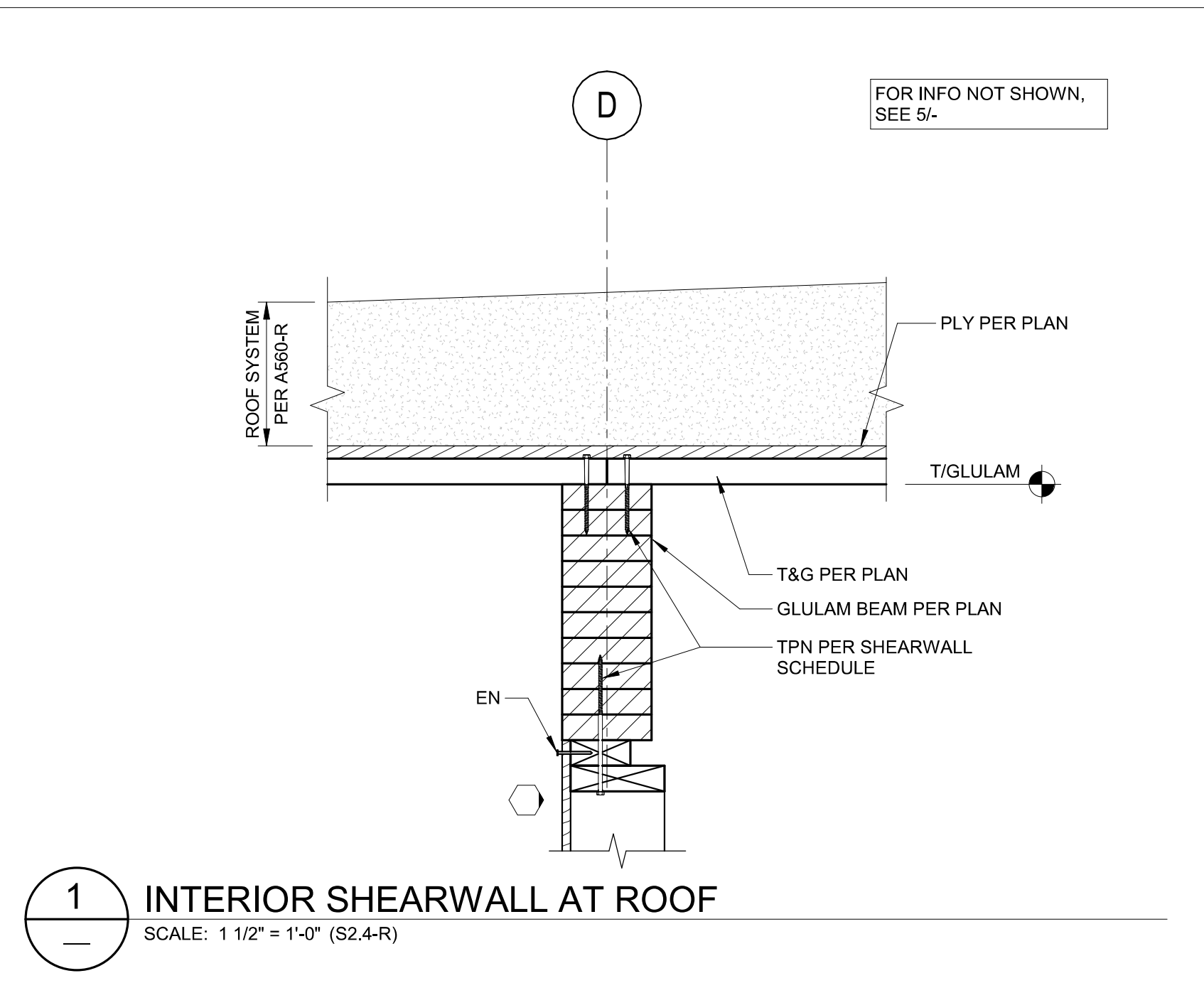
13 BEAM TO COLUMN CONNECTION
SCALE: 1 1/2" = 1'-0" (S2.3-R)



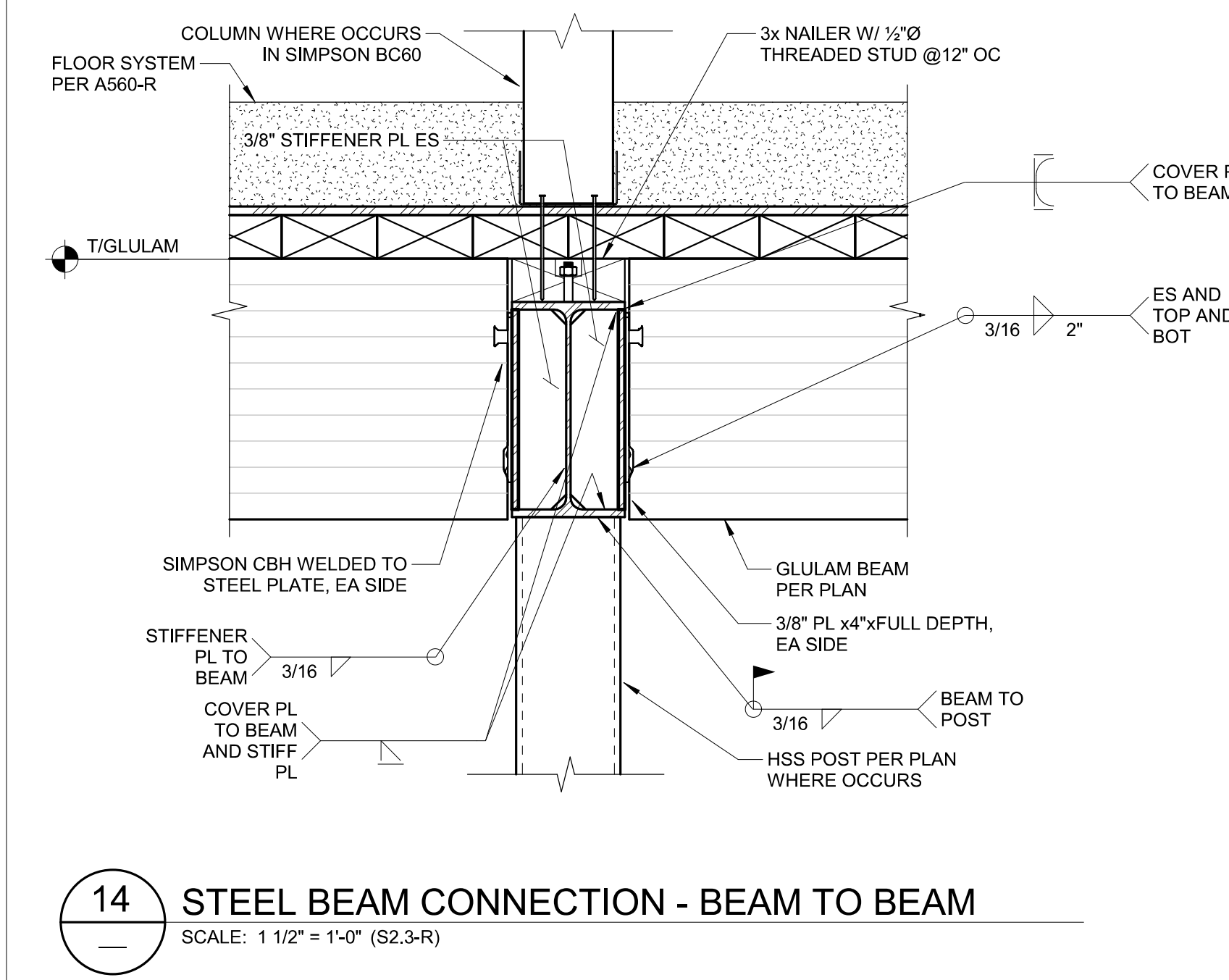
9 MULTI-BEAM TO COLUMN CONNECTION
SCALE: 1 1/2" = 1'-0" (S2.3-R)



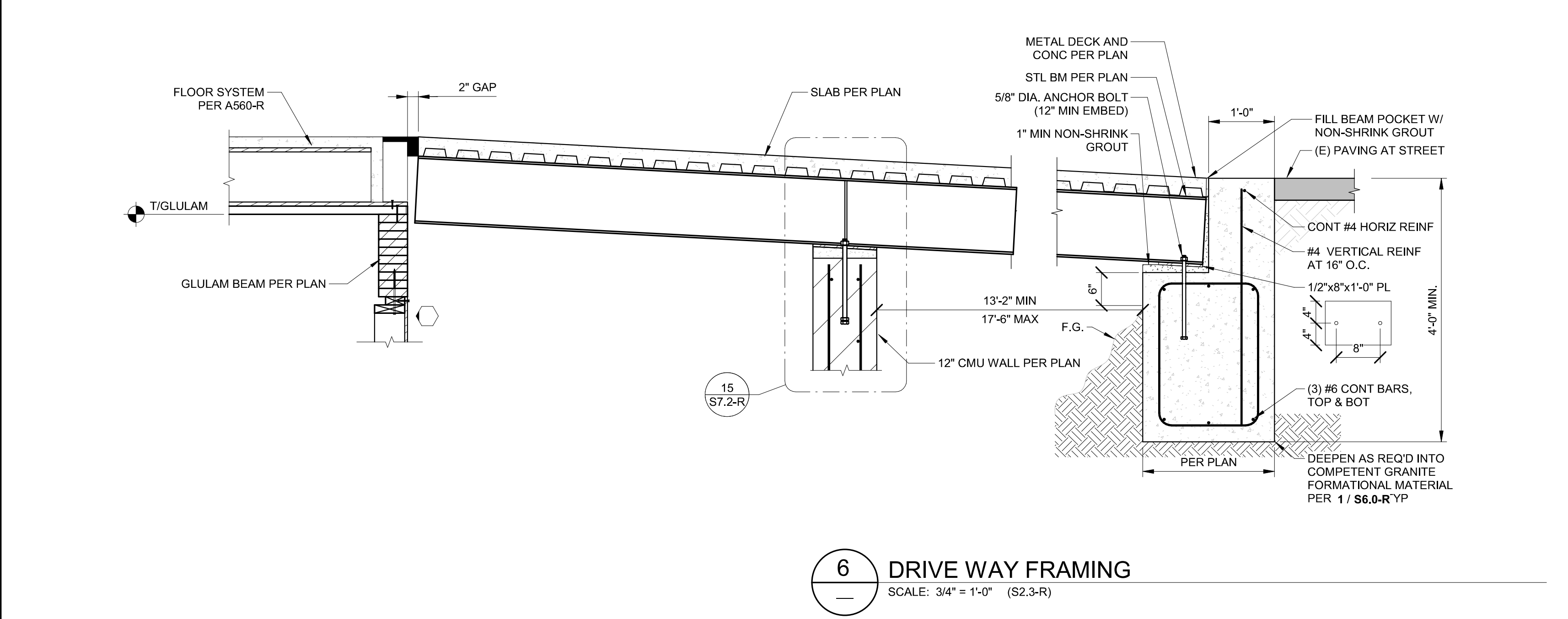
5 EXTERIOR SHEARWALL AT ROOF PARAPET
SCALE: 1 1/2" = 1'-0" (S2.3-R)



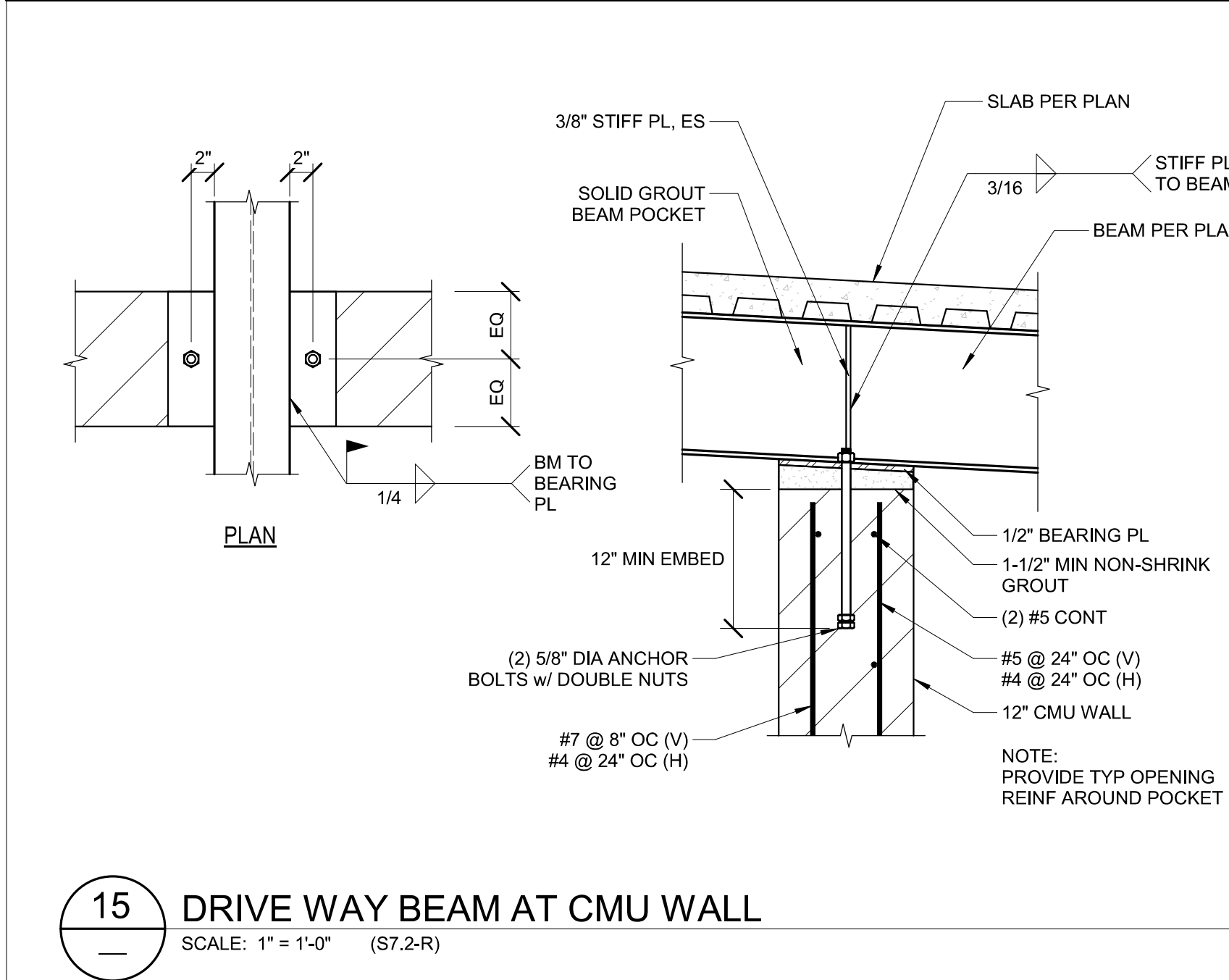
1 INTERIOR SHEARWALL AT ROOF
SCALE: 1 1/2" = 1'-0" (S2.3-R)



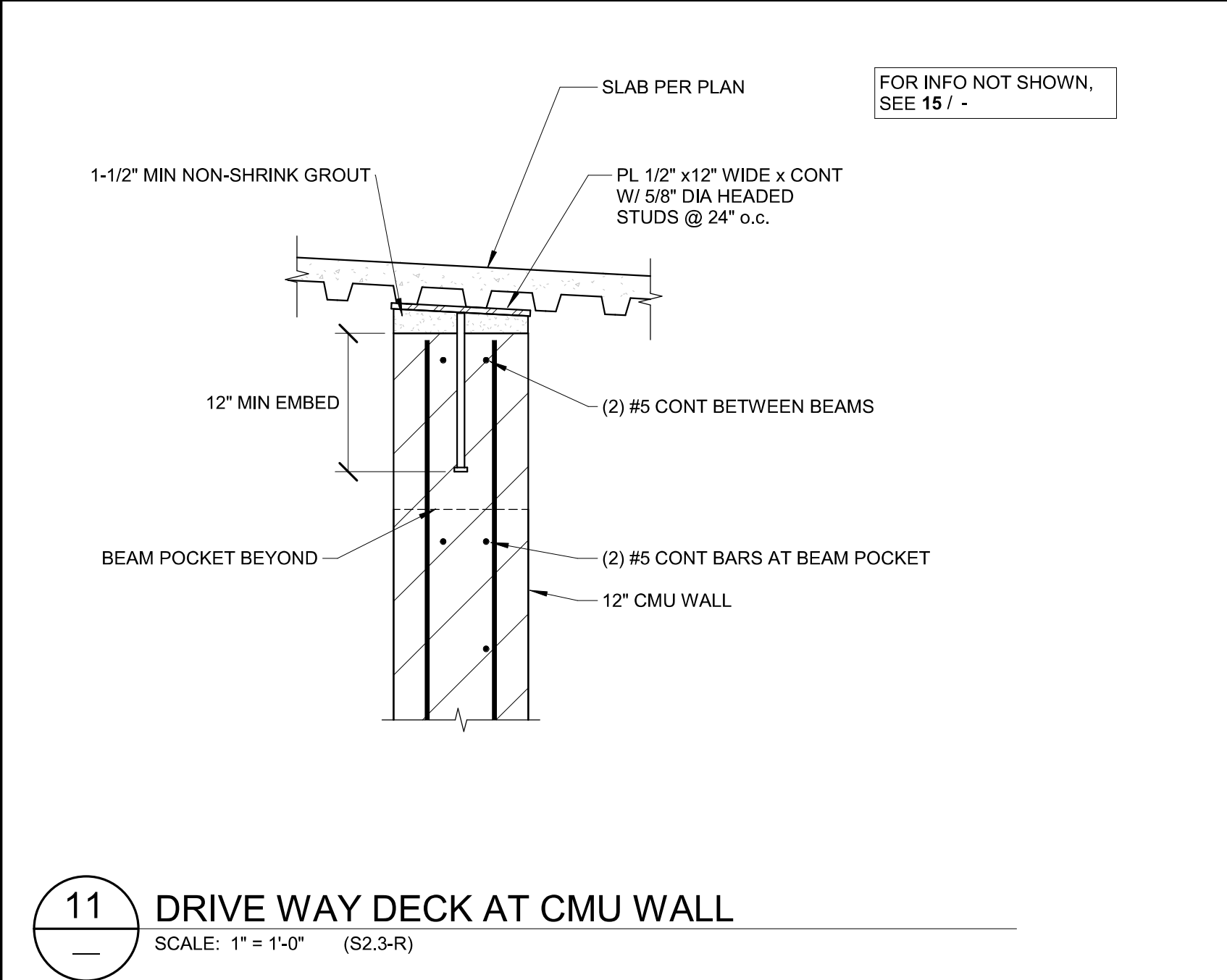
14 STEEL BEAM CONNECTION - BEAM TO BEAM
SCALE: 1 1/2" = 1'-0" (S2.3-R)



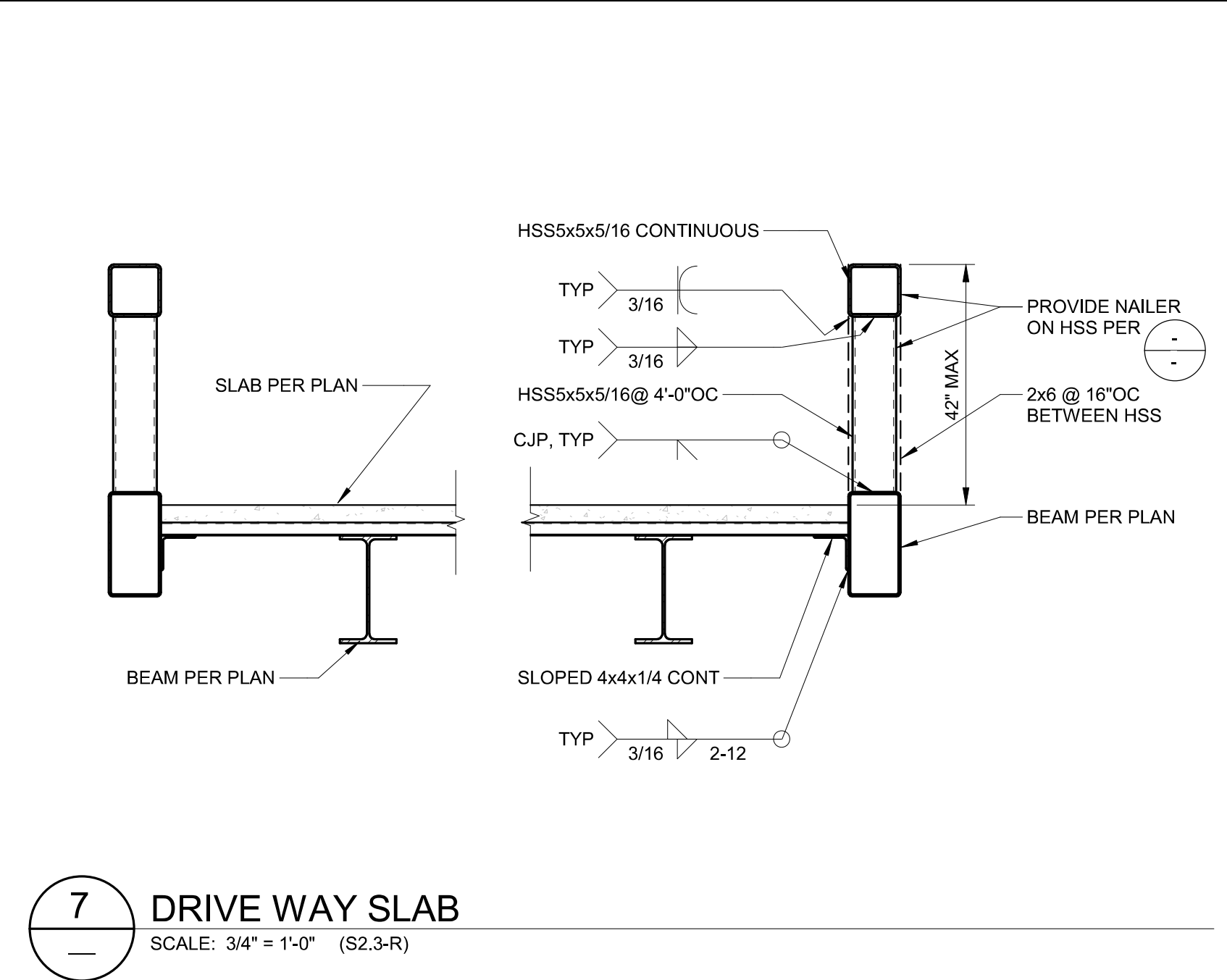
6 DRIVE WAY FRAMING
SCALE: 3/4" = 1'-0" (S2.3-R)



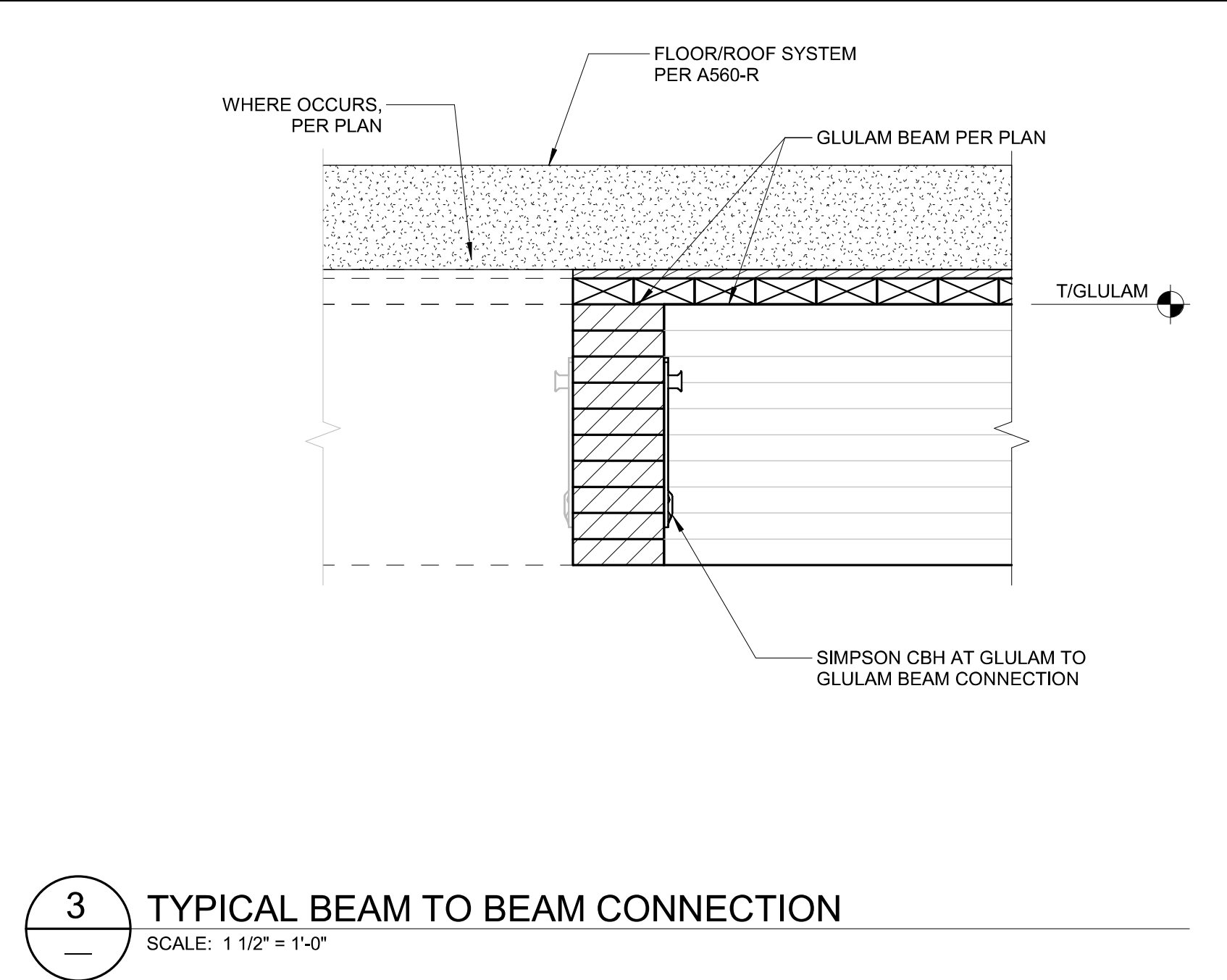
15 DRIVE WAY BEAM AT CMU WALL
SCALE: 1" = 1'-0" (S7.2-R)



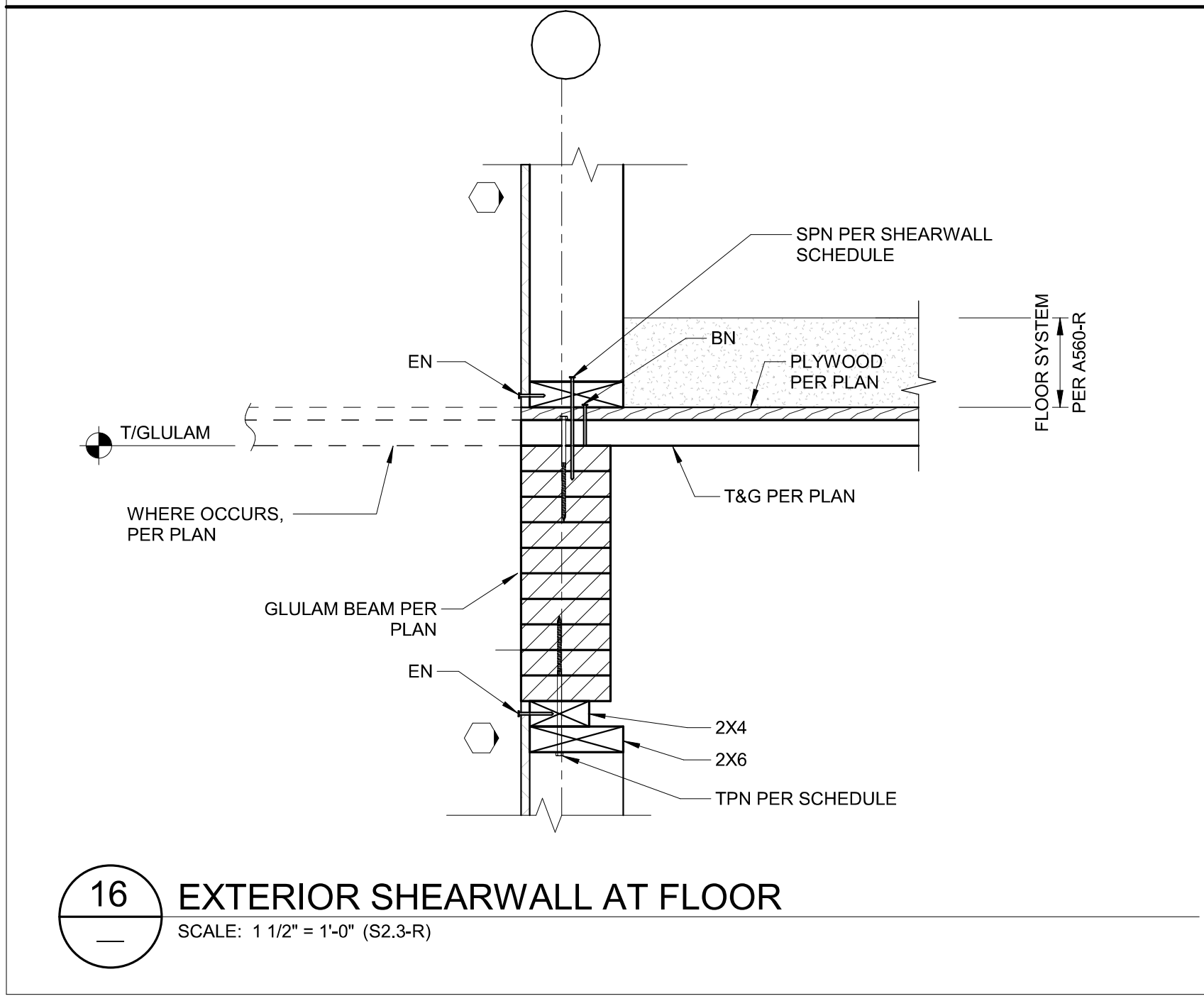
11 DRIVE WAY DECK AT CMU WALL
SCALE: 1" = 1'-0" (S2.3-R)



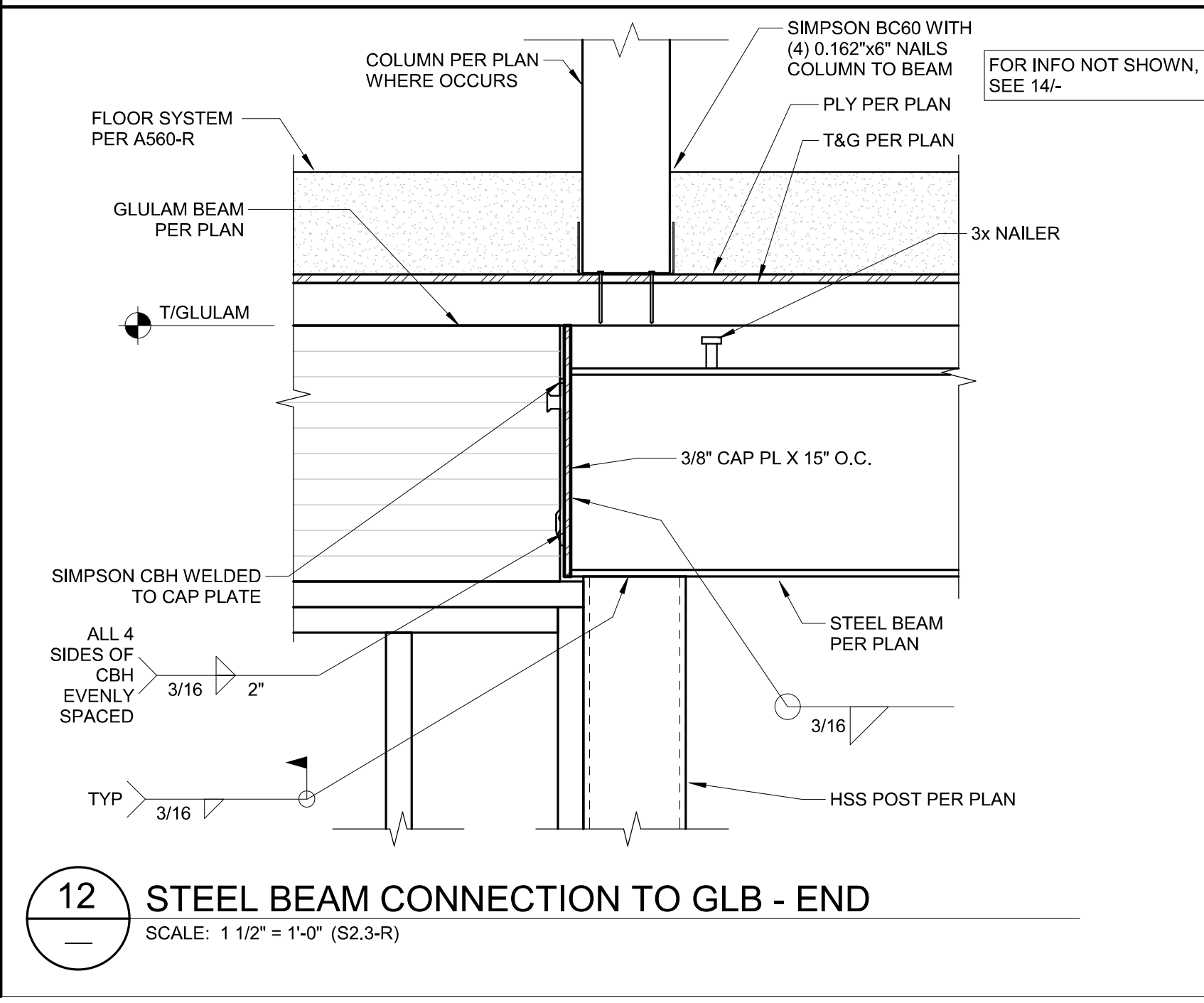
7 DRIVE WAY SLAB
SCALE: 3/4" = 1'-0" (S2.3-R)



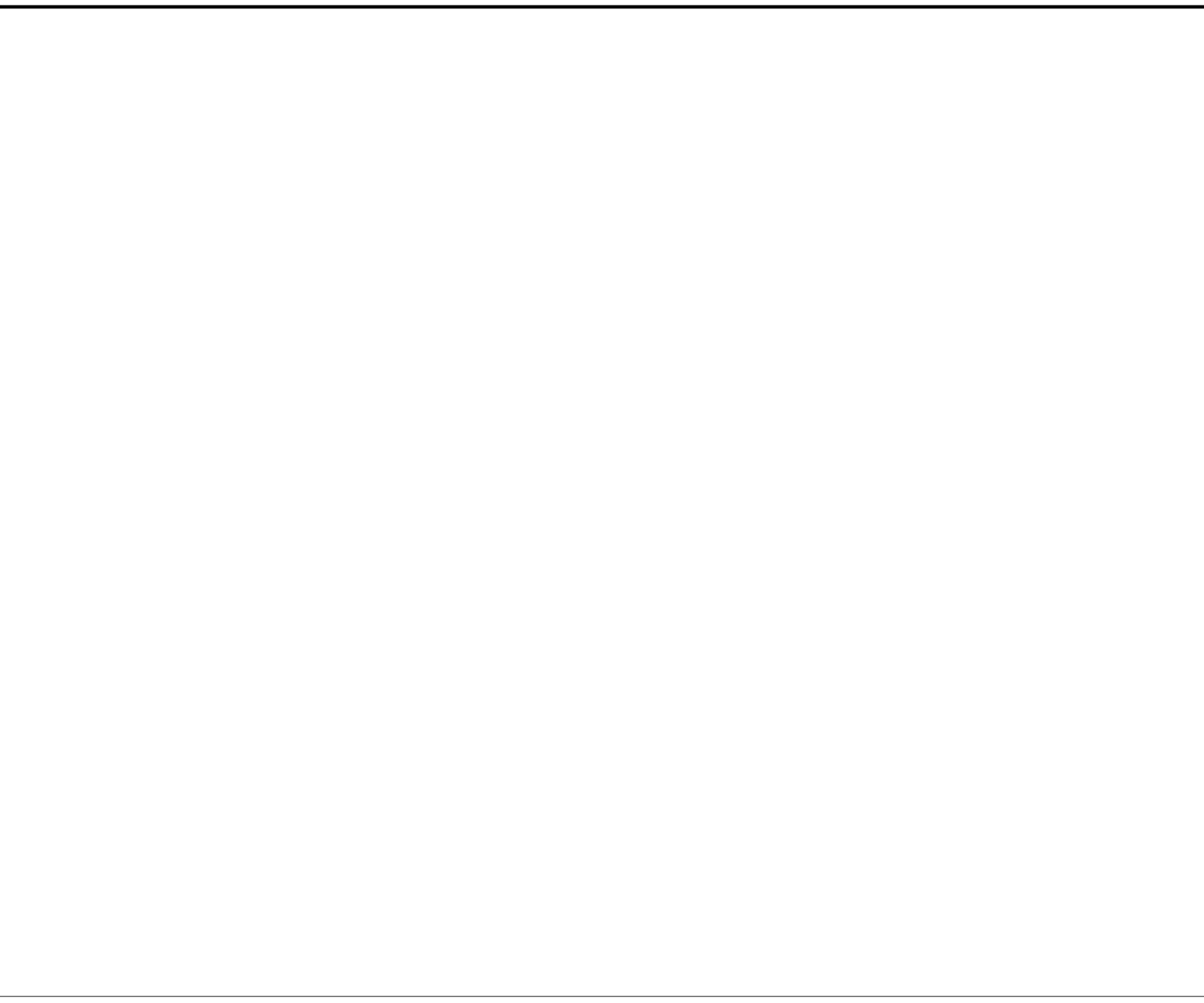
3 TYPICAL BEAM TO BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"



16 EXTERIOR SHEARWALL AT FLOOR
SCALE: 1 1/2" = 1'-0" (S2.3-R)



12 STEEL BEAM CONNECTION TO GLB - END
SCALE: 1 1/2" = 1'-0" (S2.3-R)



4 PARAPET, FRAMING AT FLOOR
SCALE: 1" = 1'-0" (S2.2-R)

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NO	DATE	REASON FOR ISSUE	CHK
1	11/27/19	Plan Check Submission (Performed by Taquino Engineering)	
2	08/21/20	City Plan Check #01 (Performed by Taquino Engineering)	
3	03/10/21	City Plan Check #02 (Performed by Taquino Engineering)	
4	03/30/22	City Plan Check #03 (Performed by Taquino Engineering)	
5	06/07/22	City Plan Check #04 (Performed by Taquino Engineering)	
6	08/21/23	Bulletin 01	
7	09/11/23	Bulletin 01 Reissue	
8	12/04/23	Plan Review Response	
9	02/10/24	Plan Review Response	

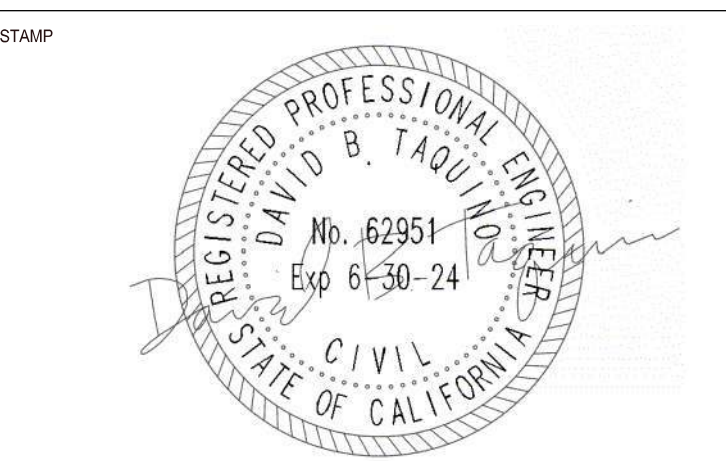
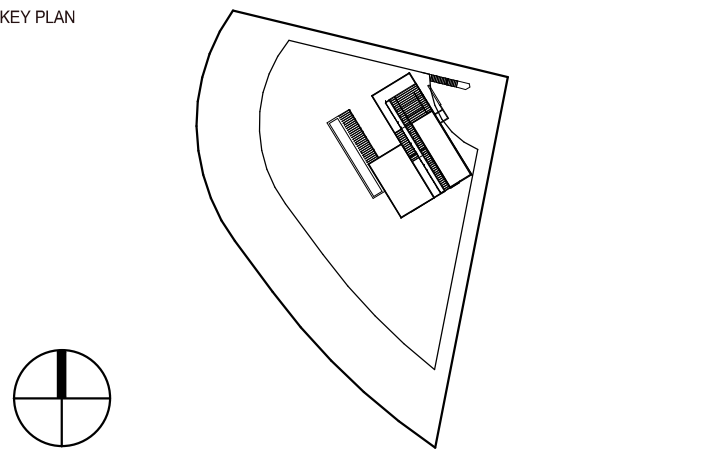
Project Status

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CONSULTANT
TAQUINO engineering

CLIENT
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PROJECT
INFINITY RESIDENCE

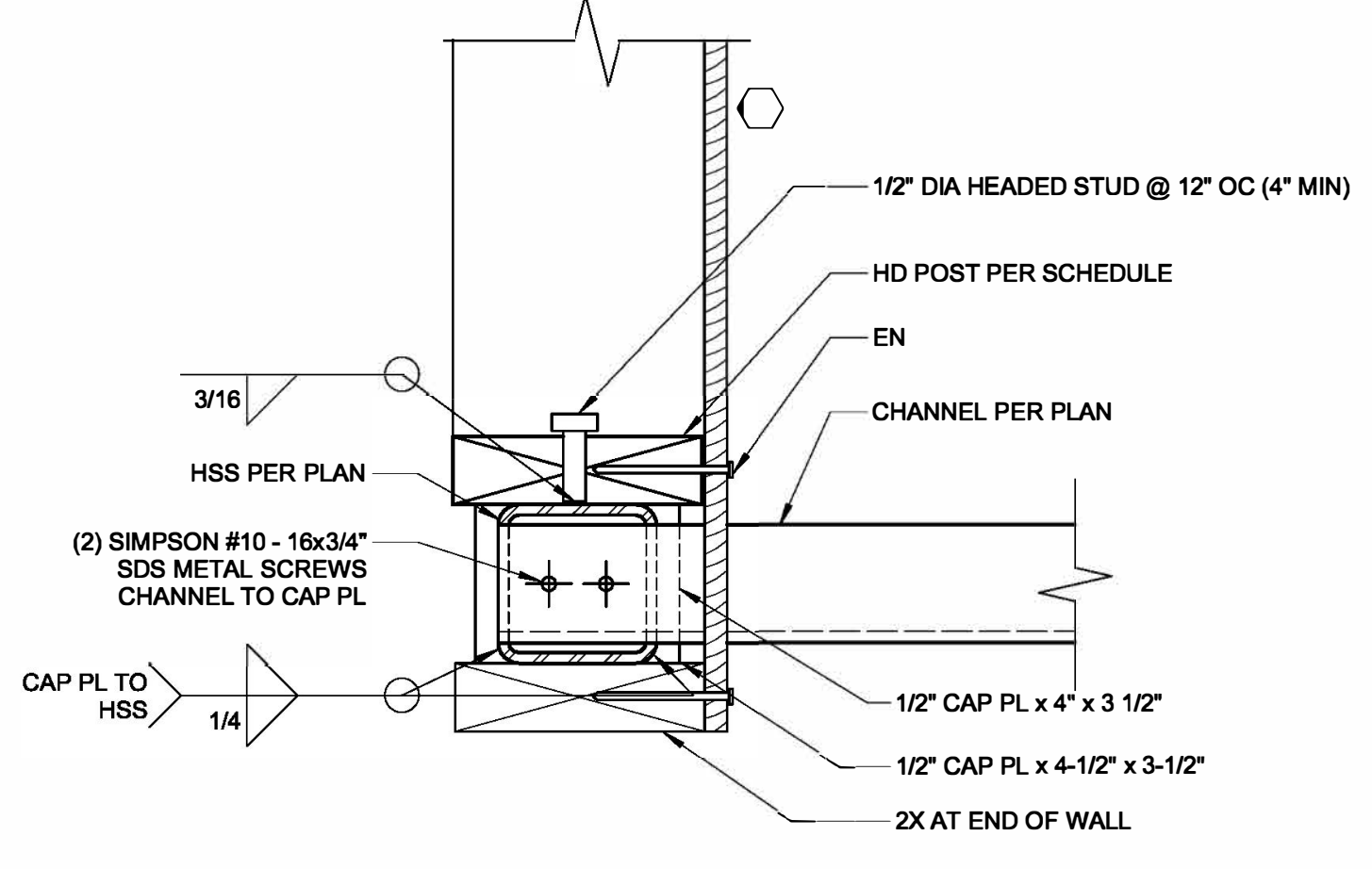
TITLE
FRAMING DETAILS

PROJECT
W0103
NUMBER
S7.2-R

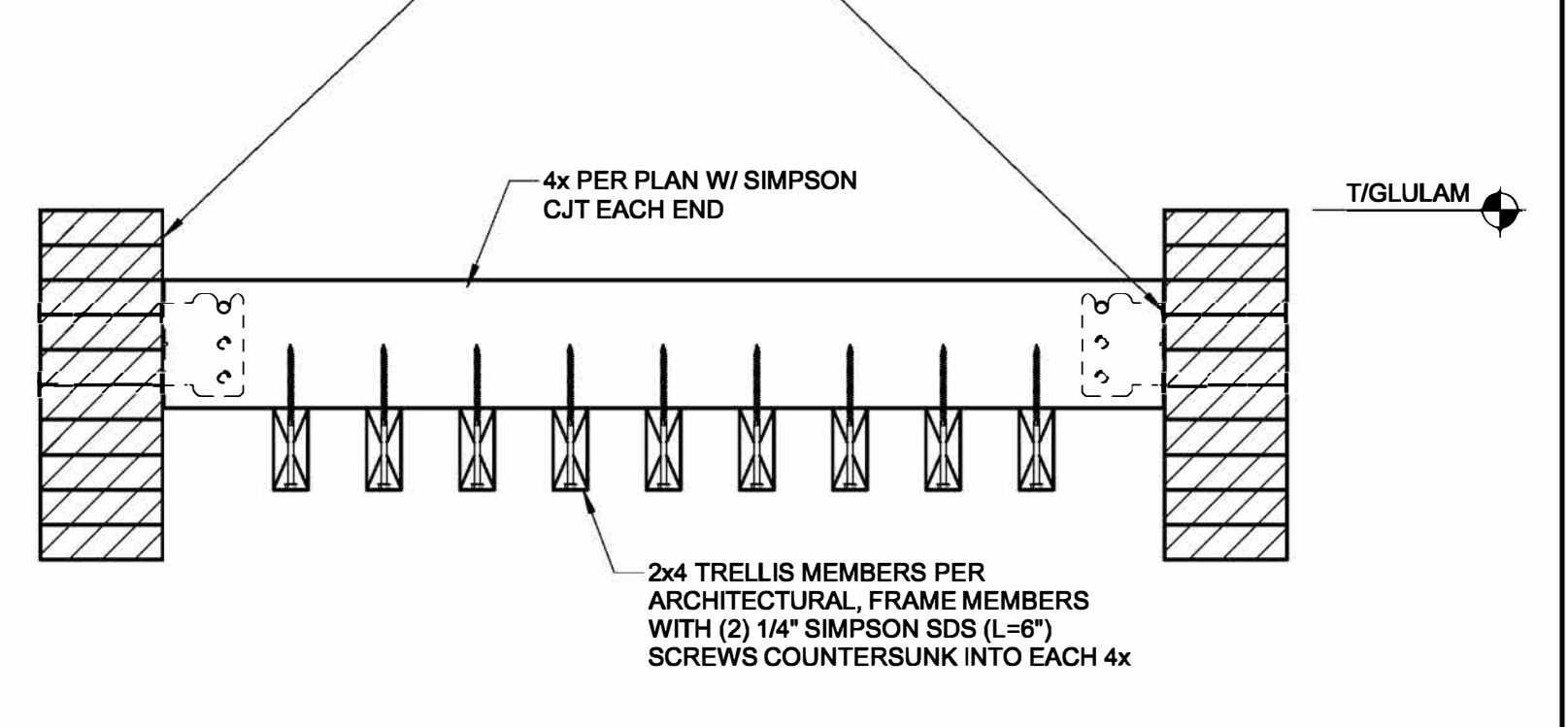
DATE
09/11/23
SCALE
As indicated

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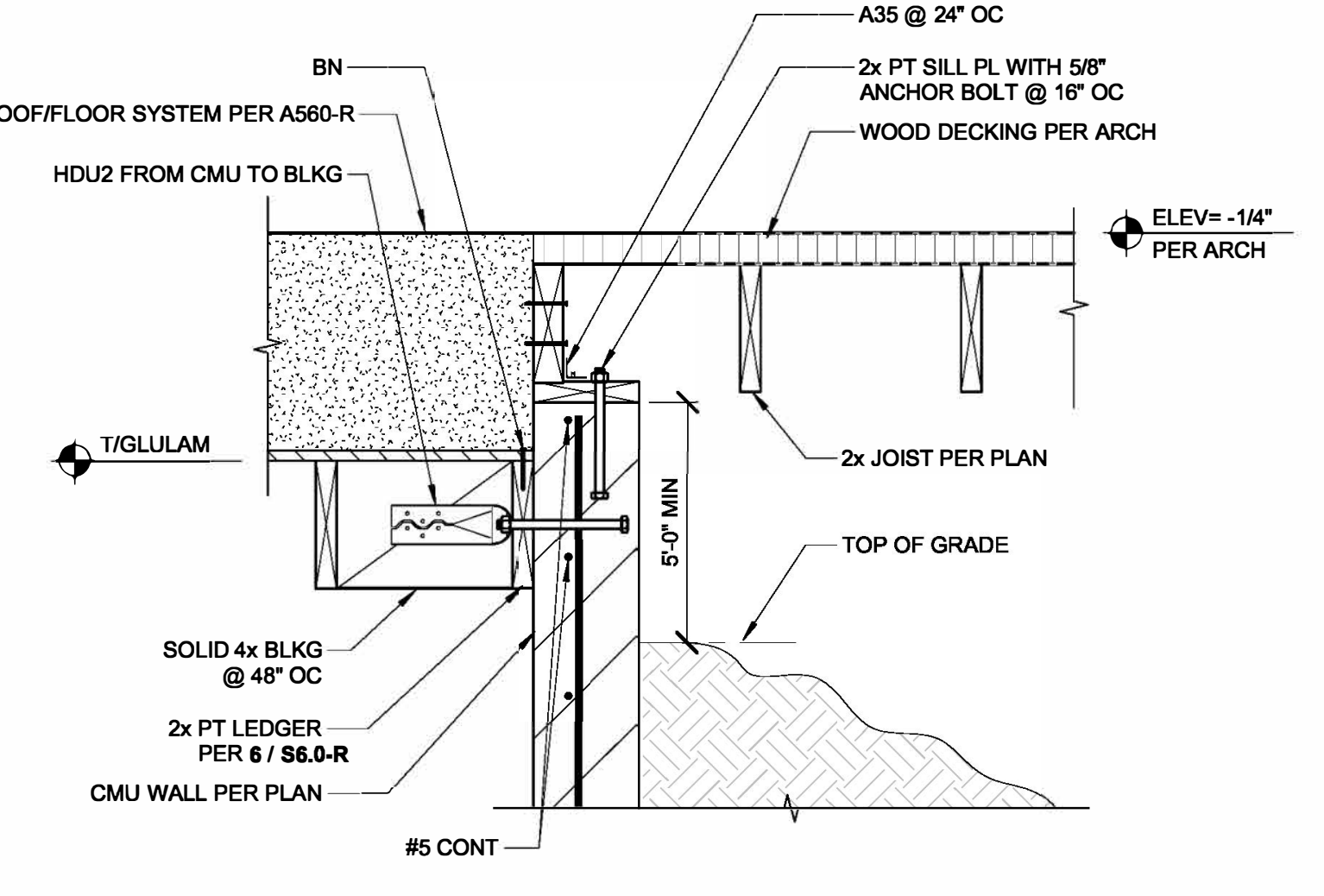
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7	09/11/23	Bulletin 01 Reissue	
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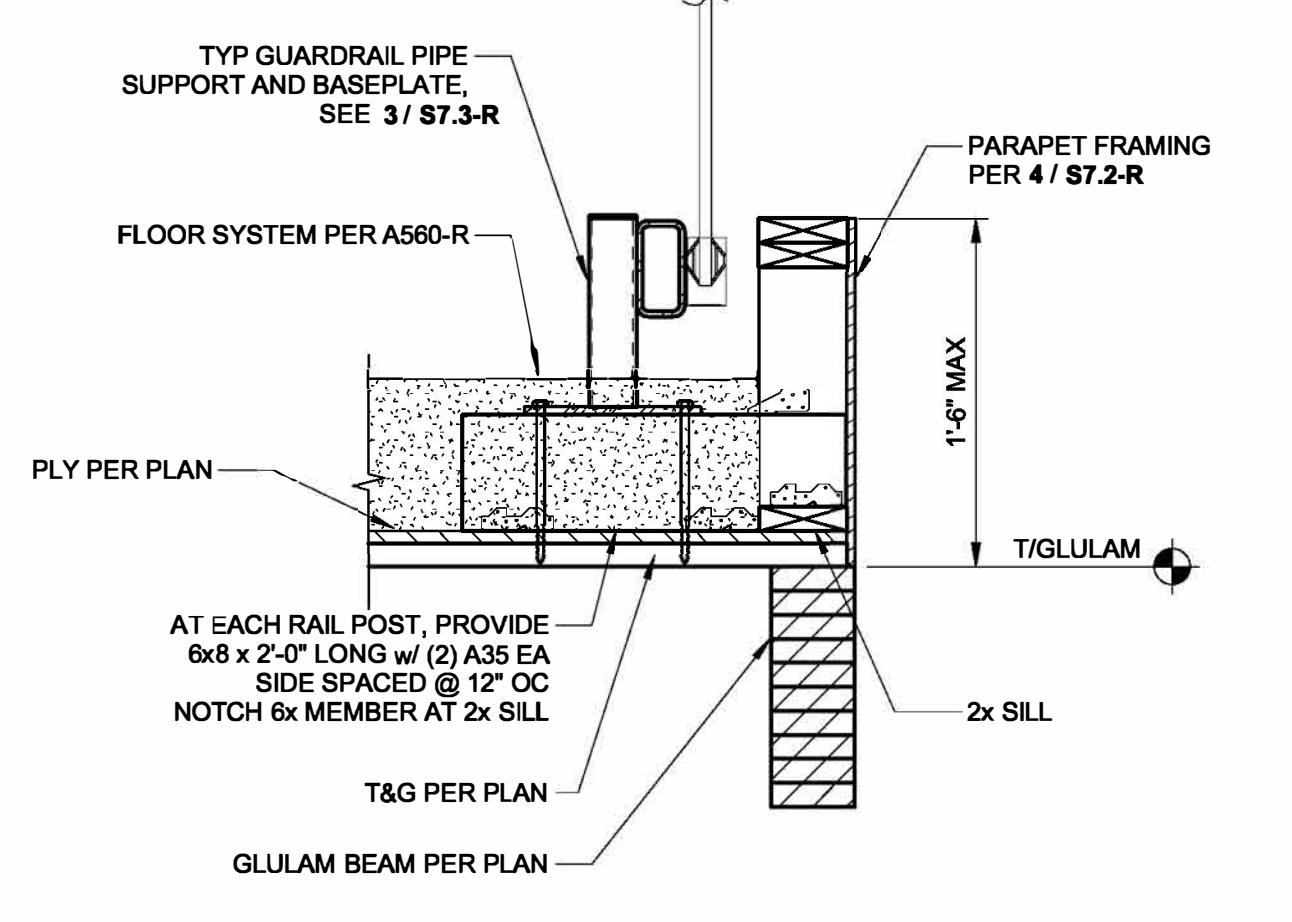
13 STAIR DETAIL
SCALE: 3" = 1'-0" (S2.3-R)



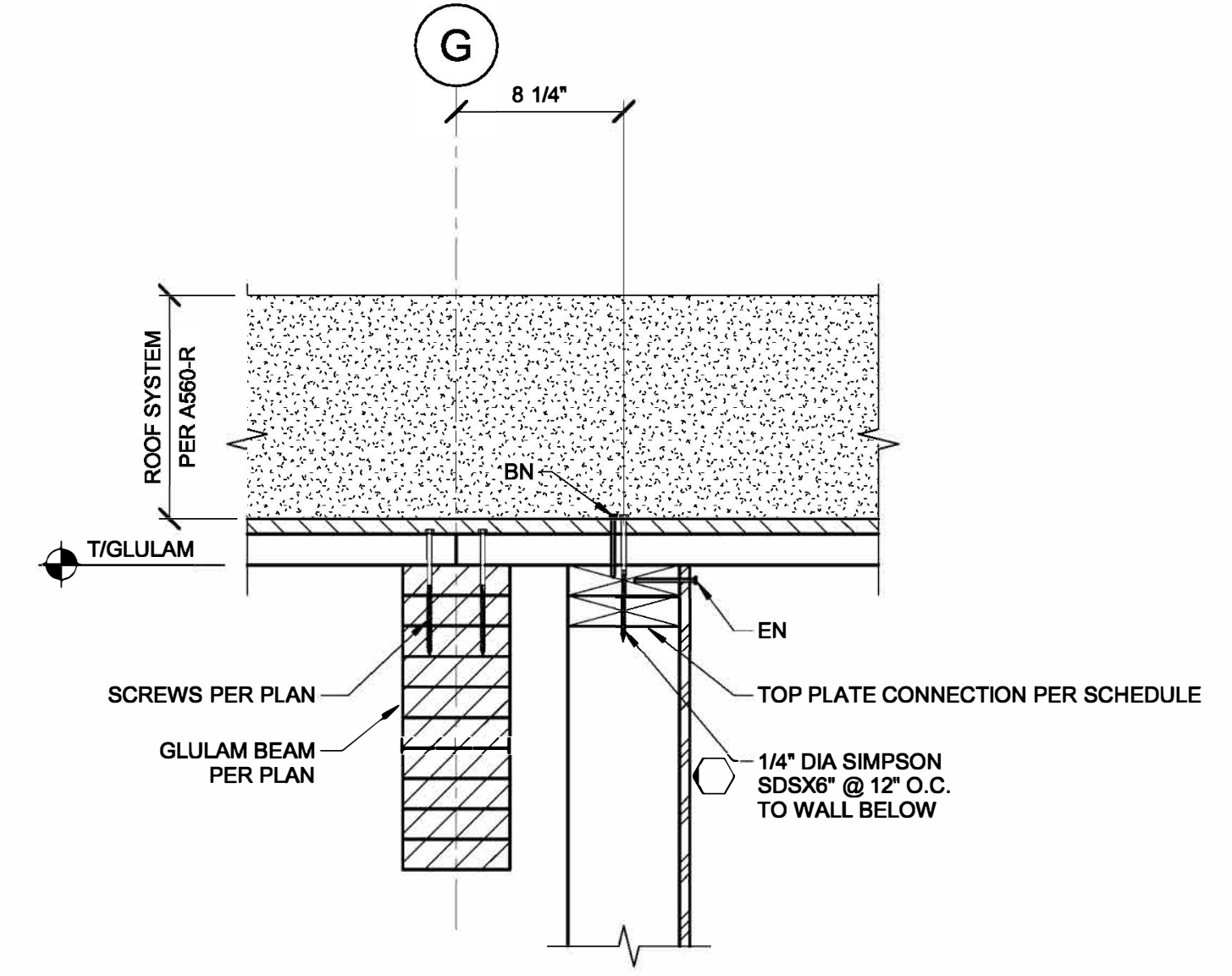
9 TRELLIS
SCALE: 1 1/2" = 1'-0" (S2.2-R)



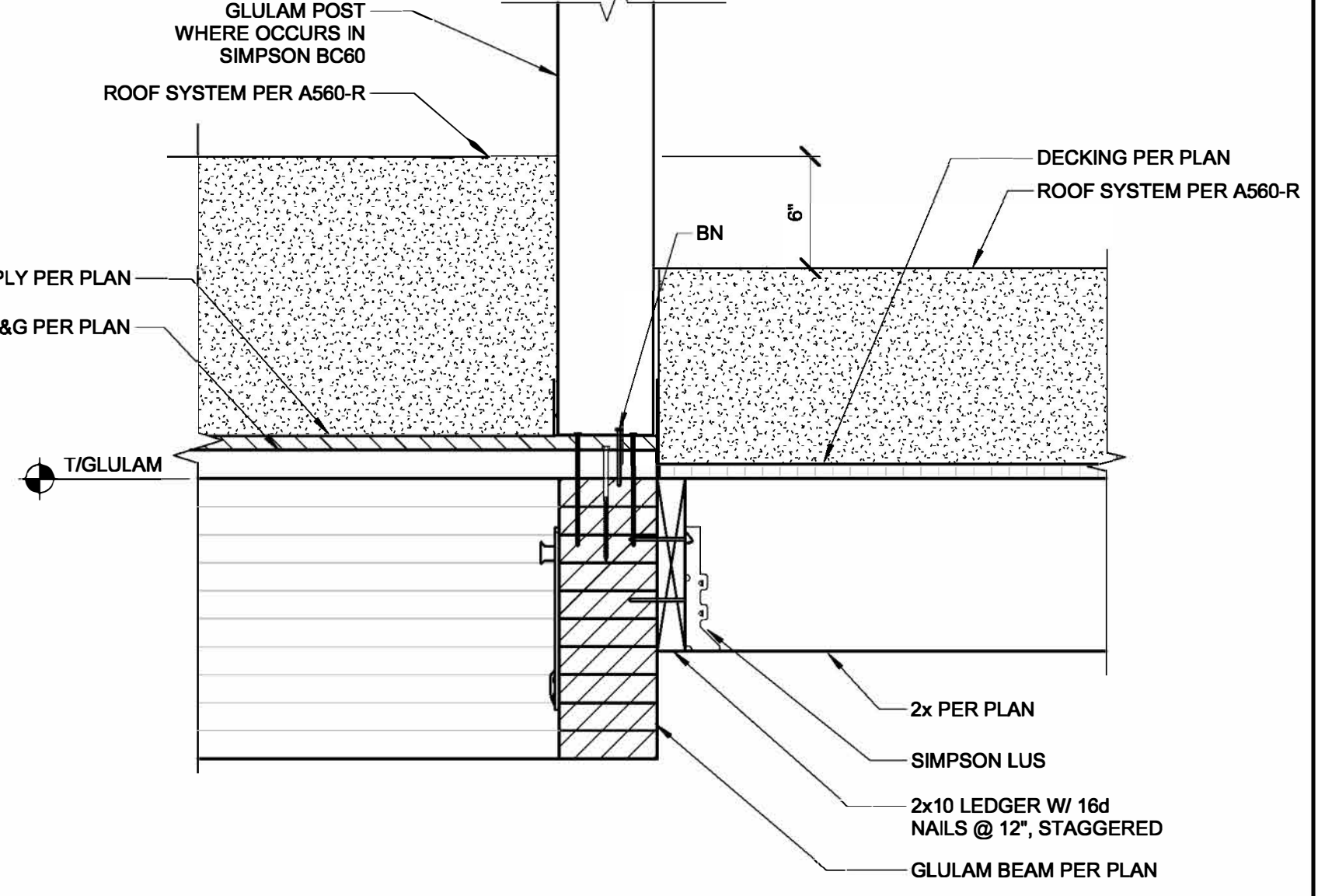
5 TUNNEL WALL DETAIL
SCALE: 1" = 1'-0" (S2.2-R)



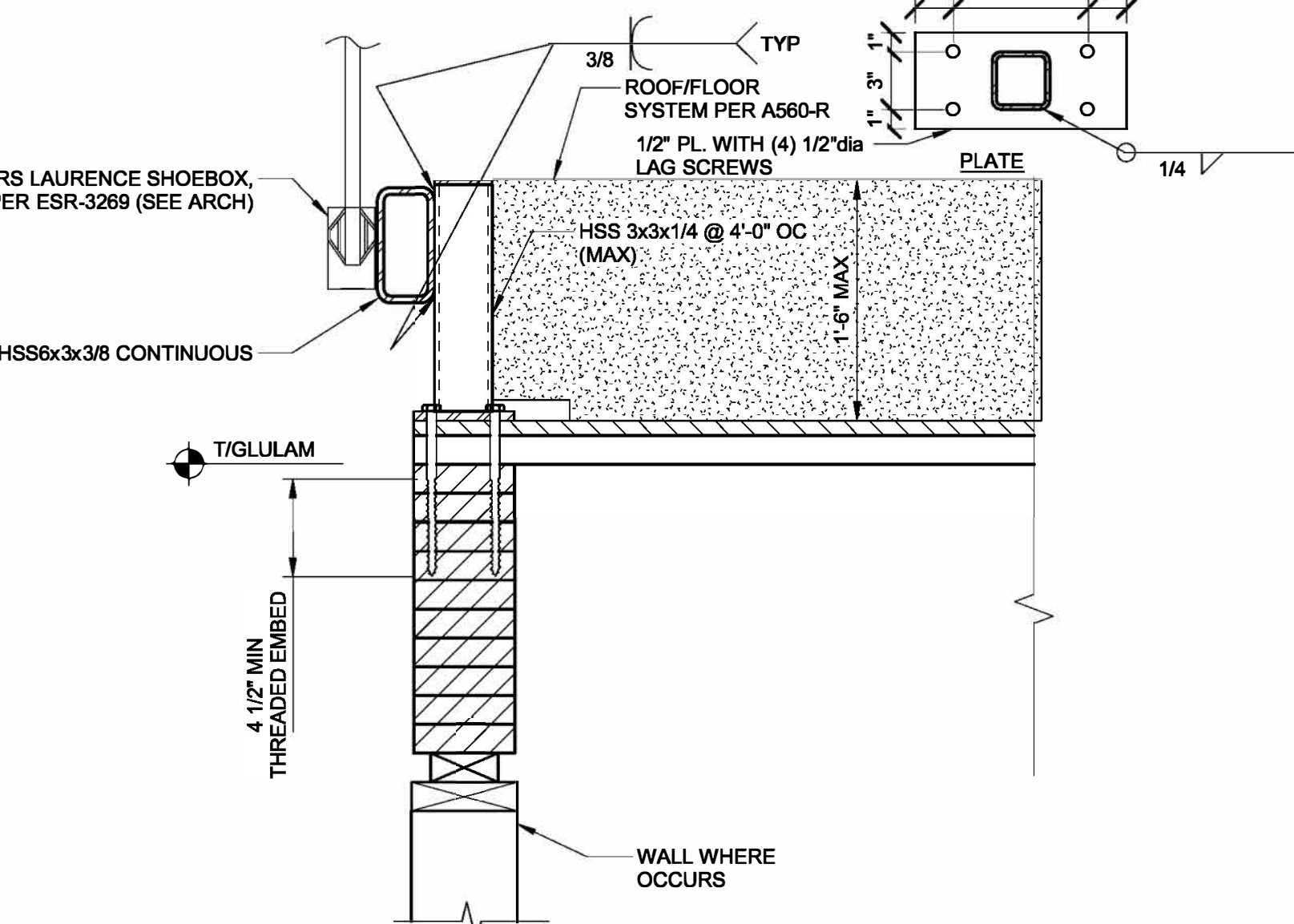
1 GUARDRAIL AT PARAPET - GRID I
SCALE: 1" = 1'-0" (S2.3-R)



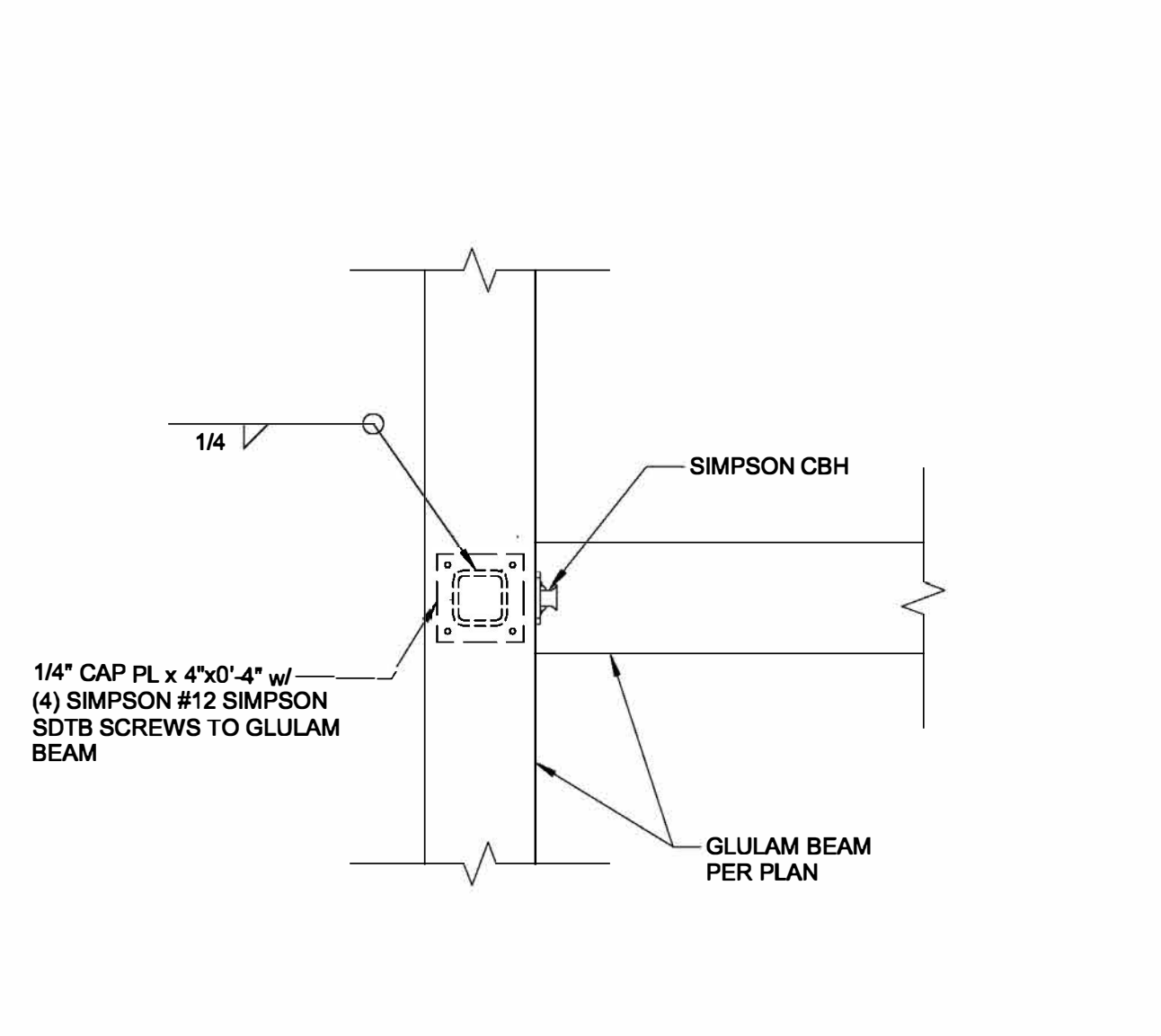
14 SHEARWALL AT ROOF DETAIL
SCALE: 1 1/2" = 1'-0" (S2.4-R)



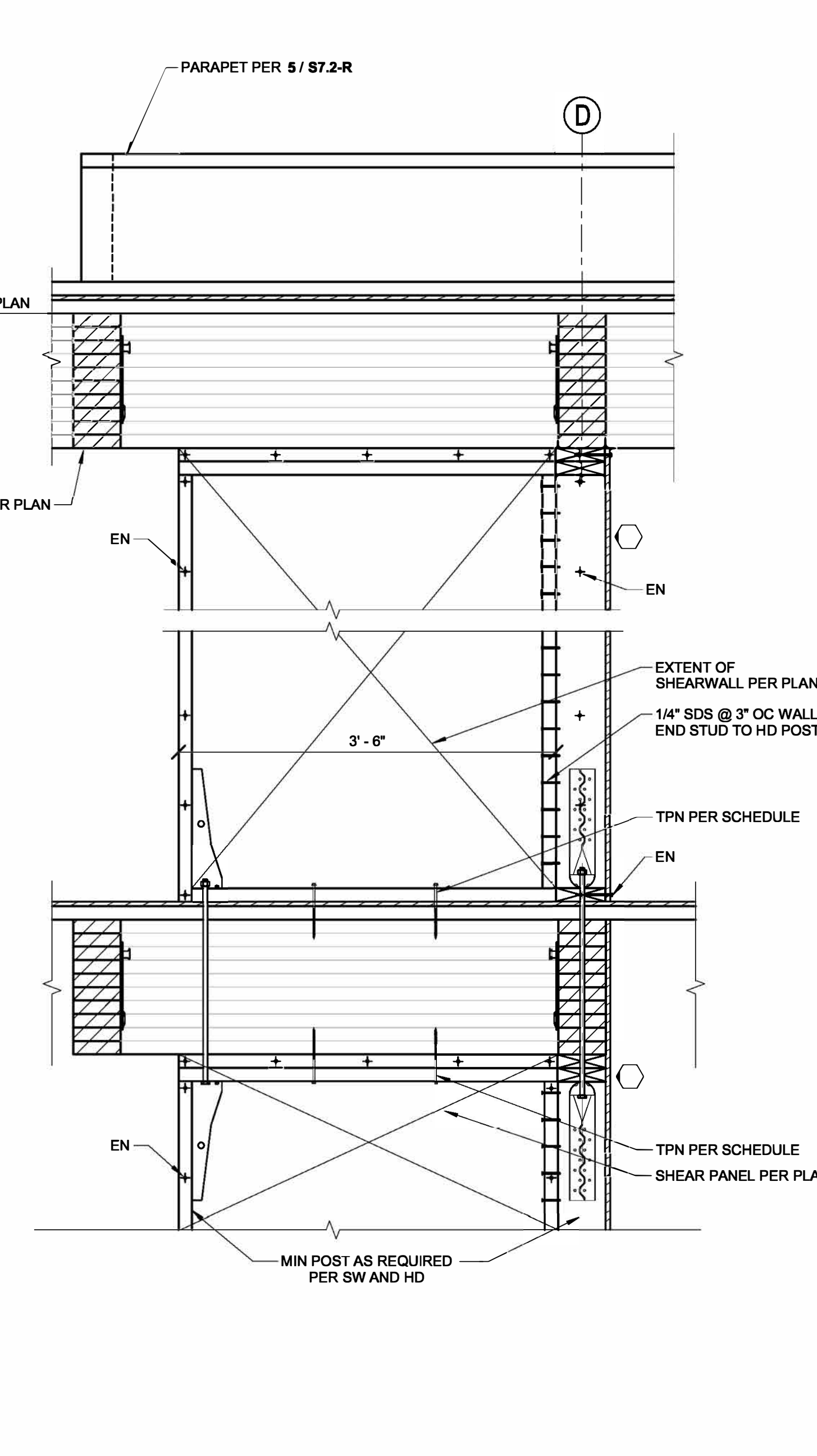
10 TERRACE WALL AT TUNNEL
SCALE: 1 1/2" = 1'-0" (S2.2-R)



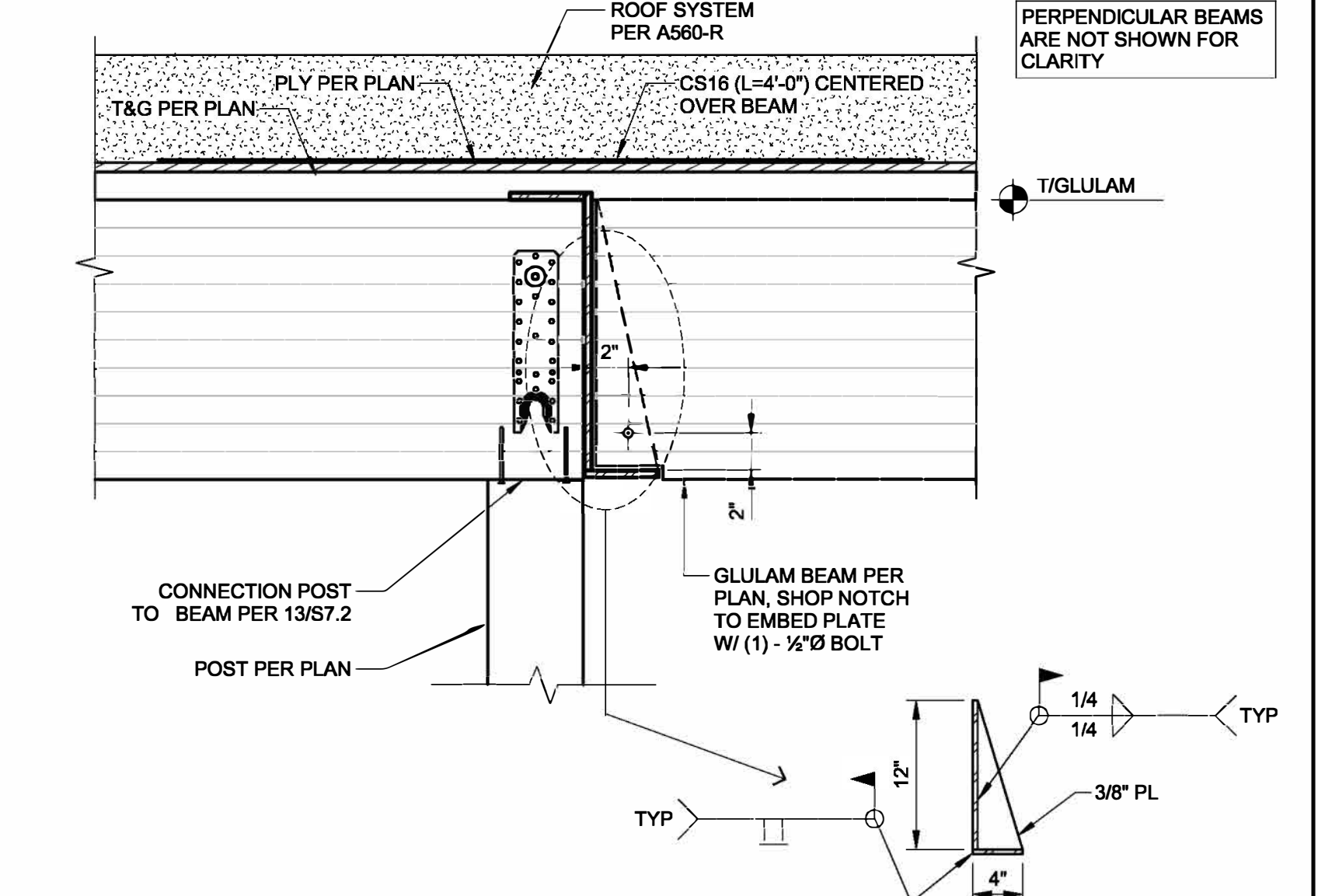
6 GUARD RAIL PARALLEL TO GLULAM BEAM
SCALE: 1 1/2" = 1'-0" (S2.2-R)



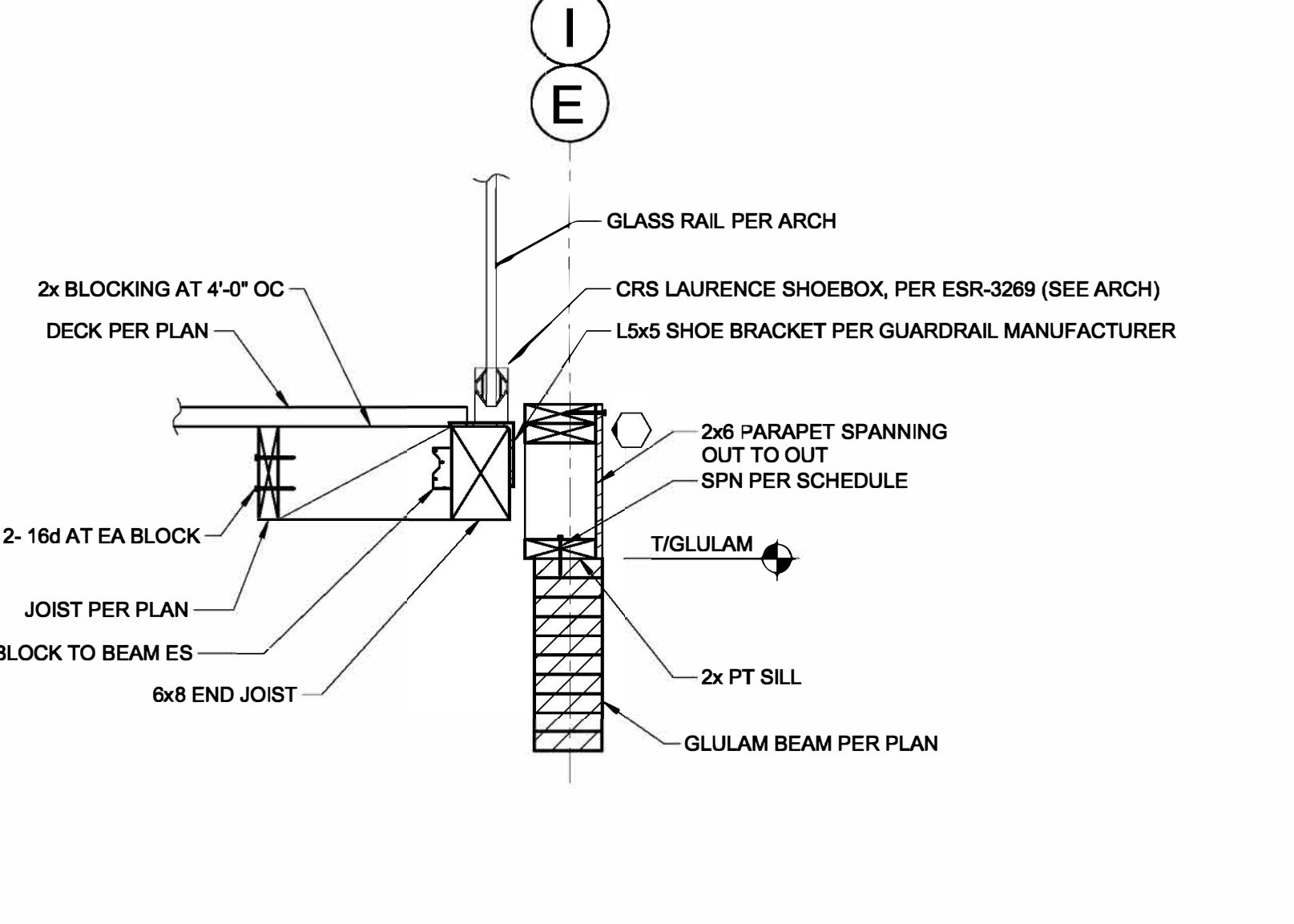
2 STEEL POST SUPPORTING GLULAM BEAM
SCALE: 1 1/2" = 1'-0" (S2.2-R)



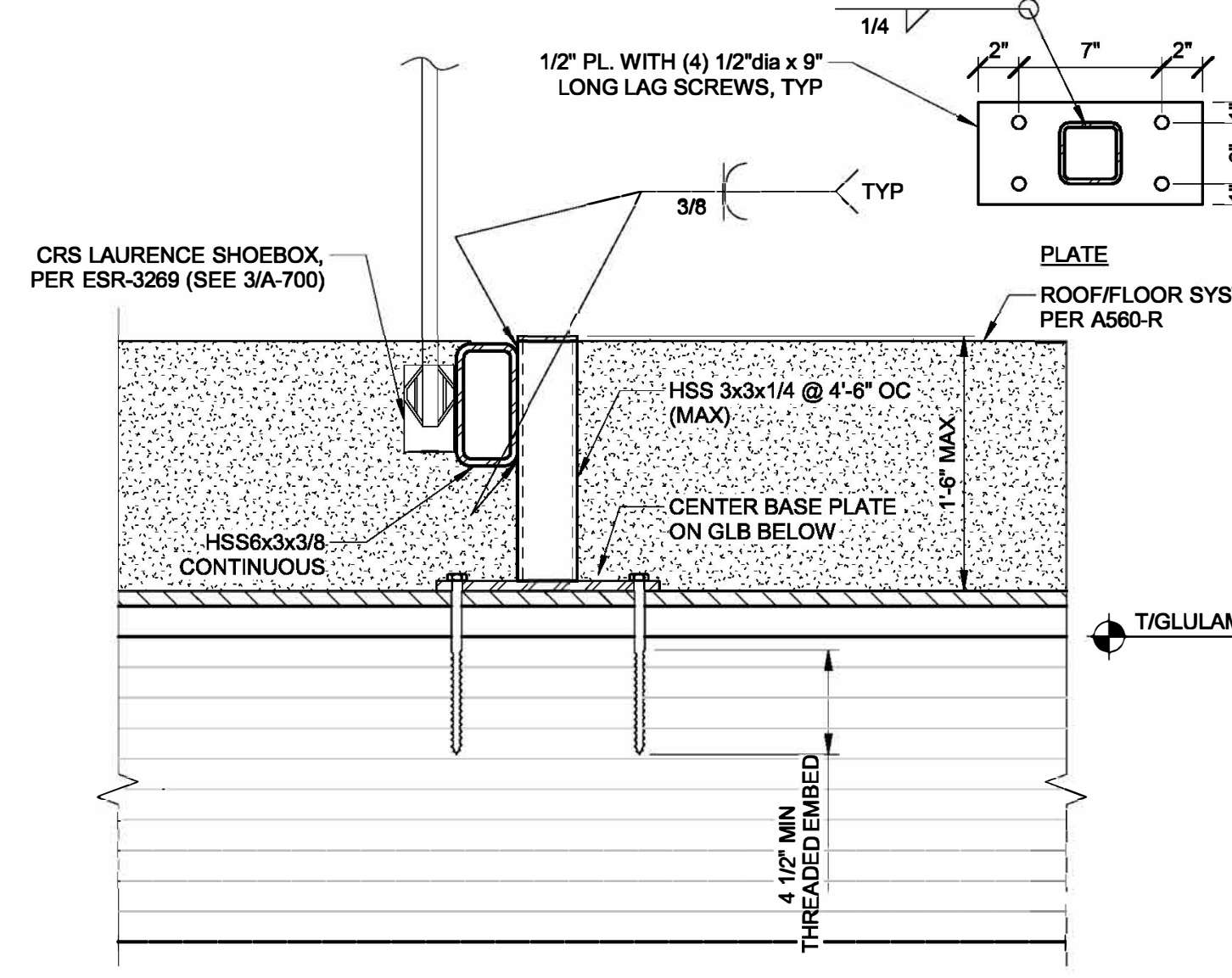
16 ELEVATION SHEAR WALL GRID 3
SCALE: 1" = 1'-0" (S2.3-R)



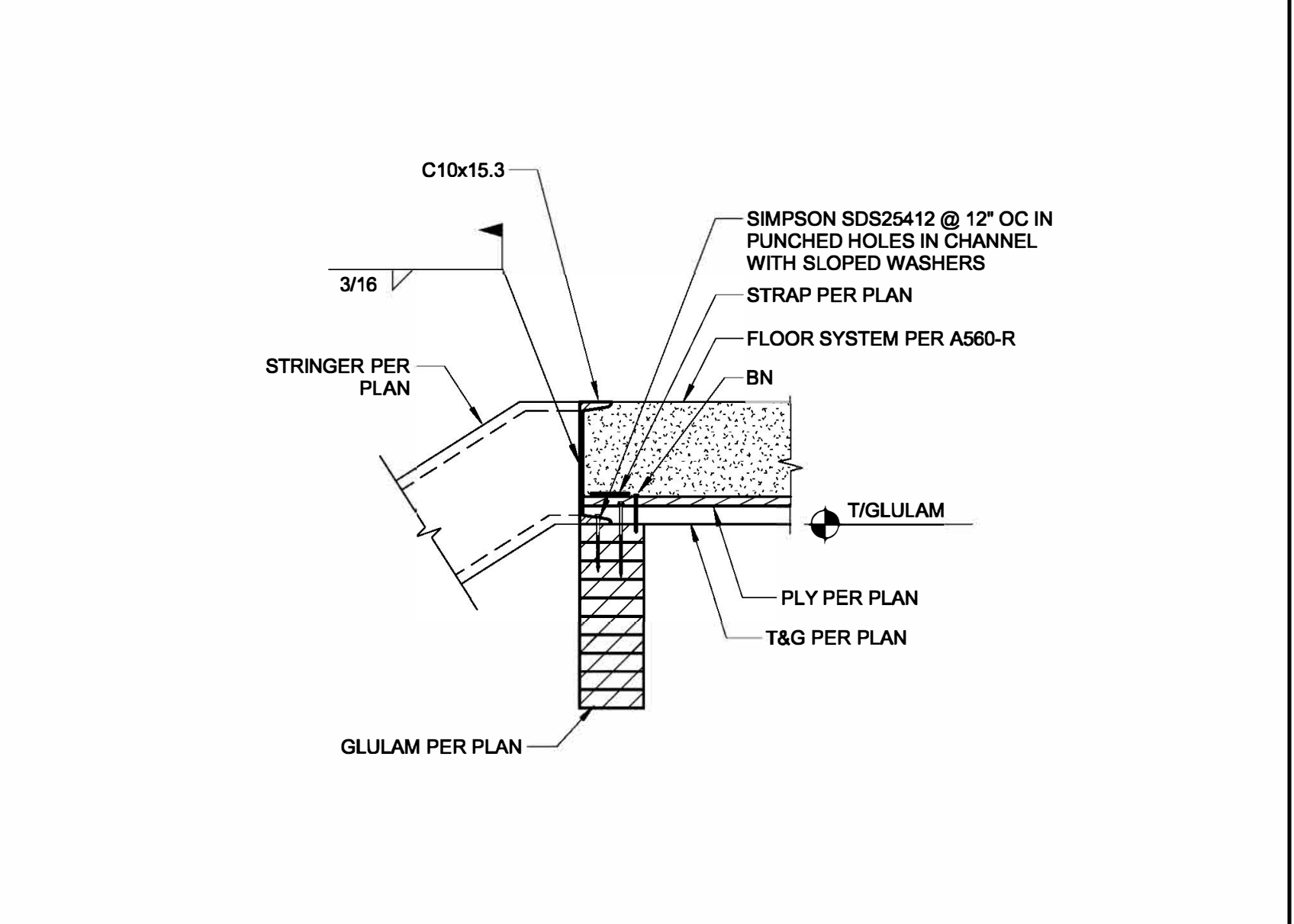
11 GLULAM BEAM SPLICE DETAIL
SCALE: 1 1/2" = 1'-0" (S2.3-R)



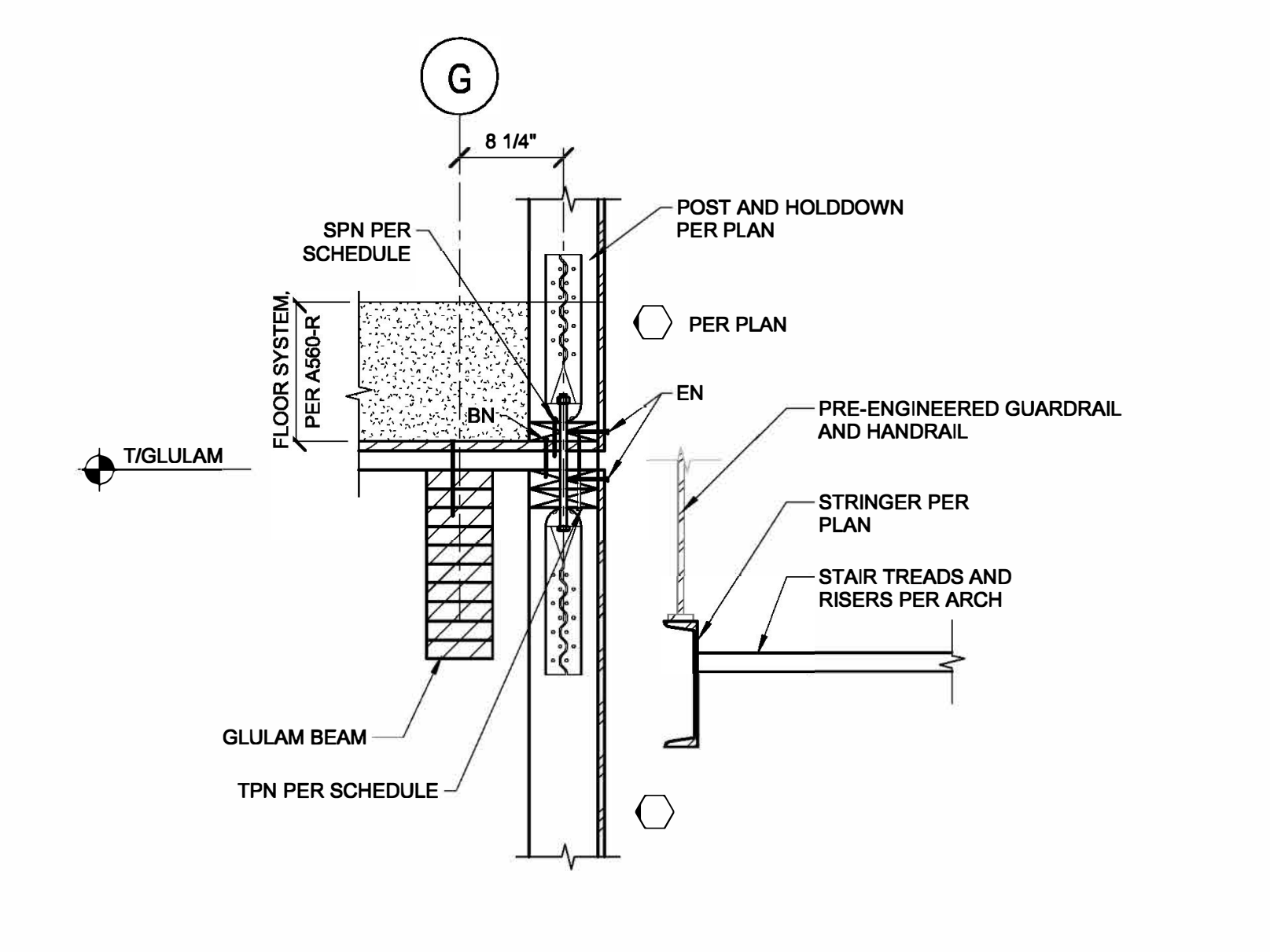
7 RAIL AT EDGE OF DECK
SCALE: 1" = 1'-0" (S2.2-R)



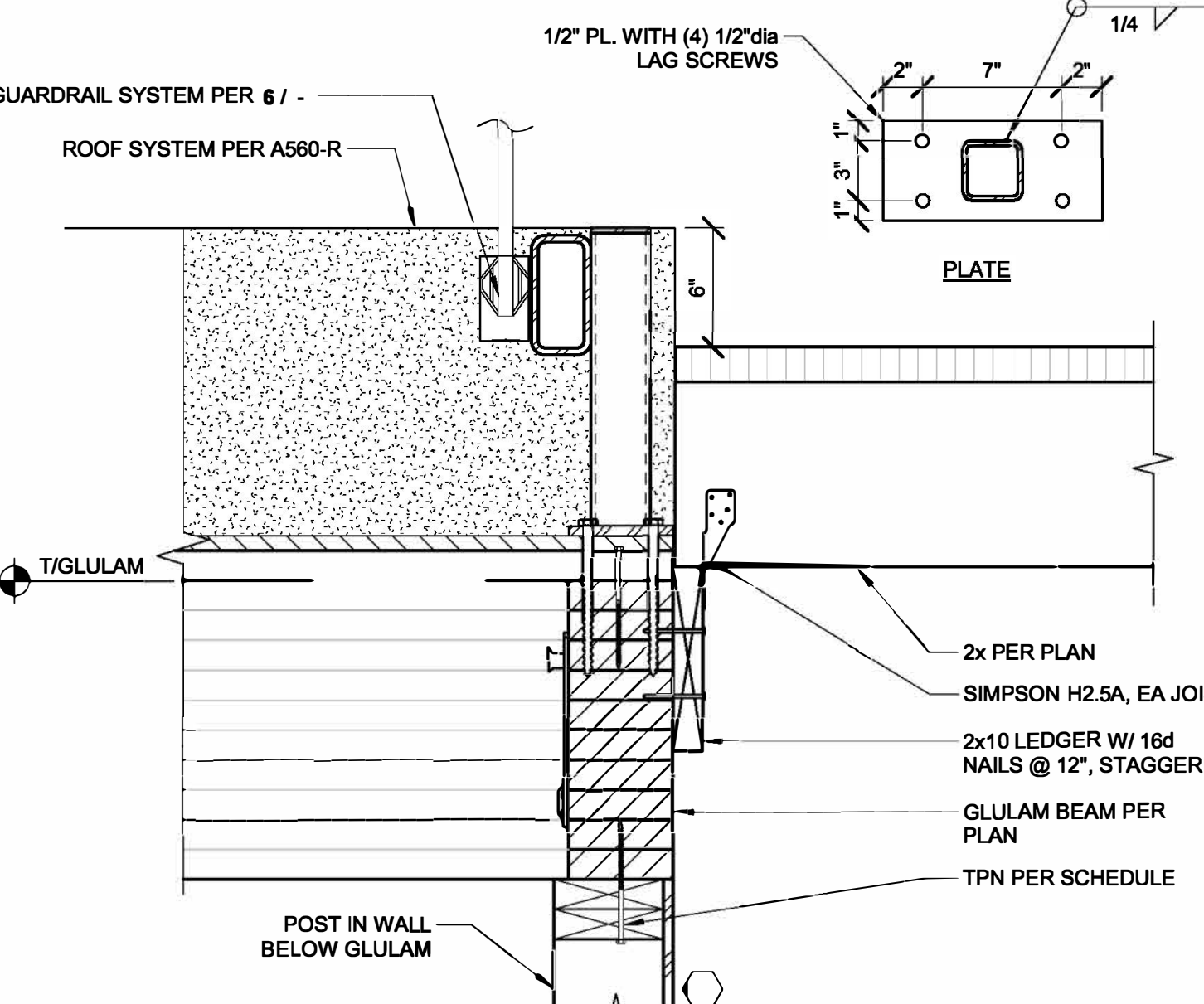
3 GUARD RAIL PERPENDICULAR TO GLULAM BEAM
SCALE: 1 1/2" = 1'-0" (S2.2-R)



12 TOP OF STAIR CONNECTION TO GLULAM BEAM
SCALE: 1" = 1'-0" (S2.3-R)



8 STAIRWELL SECTION
SCALE: 1" = 1'-0" (S2.3-R)



4 TERRACE WALL DETAIL
SCALE: 1 1/2" = 1'-0" (S2.2-R)

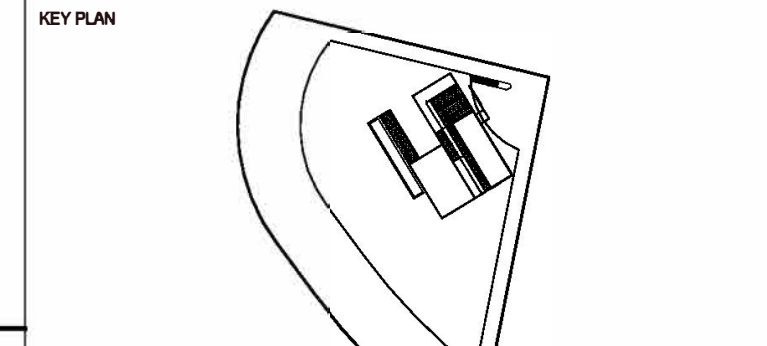
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STAMP

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PROJECT
INFINITY RESIDENCE

TITLE
FRAMING DETAILS

PROJECT NUMBER
W0103 / 87.3-R

DATE
09/11/23

SCALE
As Indicated