

[illegible][illegible]

**CONNECTION DETAIL**  
7" D TESCO BROW, MAY VARY

**ELEVATION VIEW OF CMP AND RISER**

**GENERAL NOTES:**

- DELIVERED BAND STYLE AND FASTENER TYPE MAY VARY BY FABRICATION PLANT.
- JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 9-4.2.4.
- BAND MATERIAL AND HGT TO BE SAME AS RISER MATERIAL.
- IF RISER HAS A GAGE OF COVER OF 12" OR MORE, USE A SLIP JOINT.
- BANDS ARE NORMALLY FINISHED AS FOLLOWS:
  - 12" THRU 60" PRICE
  - 12" THRU 144" PRICE
- ALL RISER JOINT COMPONENTS WILL BE FIELD ASSEMBLED.
- MANHOLE RISERS IN APPLICATIONS WHERE TRAFFIC LOADS ARE IMPOSED REQUIRE SPECIAL DESIGN CONSIDERATIONS.
- DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

**PLAIN END CMP RISER PIPE**

**CONNECTION DETAIL (SBBS)**

**PLAIN END CMP PIPE**

**D-12 DIMPLE BAND DETAIL**  
NOT TO SCALE

**GENERAL NOTES:**

- JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 9-4.2.4.
- BAND MATERIALS AND/OR COATING MAY VARY BY LOCATION; CONTACT YOUR COUNTY REPRESENTATIVE FOR AVAILABILITY.
- BANDS ARE DESIGNED TO MATCH THE PREVIOUS WHEN APPLICABLE.
- BANDS ARE NORMALLY W/ BUNDLED AS FOLLOWS:
  - 12" THRU 60" PRICE
  - 64" THRU 8" PRICE
  - 104" THRU 144" PRICE
- BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.
- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- ORDER SHALL DESIGNATE DADKIT OPTION, IF REQUIRED (SEE DETAILS ABOVE).

**D-12 DIMPLE BAND DETAIL**  
NOT TO SCALE

**CONTECH ENGINEERING SOLUTIONS LLC**  
www.contech-engineering.com  
9000 Central Expressway, Suite 400, West Chester, OH 45380  
937.634.1122 937.634.1100 937.634.1104 FAX

**CONTECH CMP DETENTION SYSTEMS**  
PROPOSAL

**GARDENA AQUATICS AND SENIOR CENTER**  
GARDENA, CA  
SITE DESIGNATION:  
P4 OF 5

**12" Ø PERFORATED UNDERGROUND RETENTION SYSTEM - 725765-010**

PROJECT NO.	DWG NO.	DATE
725765	010	08/22/2023
REVISION	BY	DATE
	PJL	08/22/2023

**SECTION VIEW**

REINFORCING TABLE				
Ø CMP RISER	A	Ø Ø	REINFORCING	*BEARING PRESSURE (PSF)
24"	4'0"	36"	#5 @ 12" OC CW	2,040
	4'4"	36"	#5 @ 12" OC CW	1,980
30"	4'0"	32"	#5 @ 12" OC CW	2,080
	4'4"	32"	#5 @ 12" OC CW	1,870
36"	3'0"	36"	#5 @ 9" OC CW	2,080
	4'0"	36"	#5 @ 9" OC CW	1,850
42"	0'0"	44"	#5 @ 9" OC CW	1,480
	0'0"	44"	#5 @ 9" OC CW	1,370
48"	0'0"	50"	#5 @ 9" OC CW	1,210
	0'0"	50"	#5 @ 9" OC CW	1,270

\* ASSUMED SOIL BEARING CAPACITY

**ACCESS CASTING NOT SUPPLIED BY CONTECH**

**ROUND OPTION PLAN VIEW**

**SQUARE OPTION PLAN VIEW**

**NOTES**

- DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION AND AASHTO.
- DESIGN LOAD HS25.
- EARTH COVER = 1' MAX.
- CONCRETE STRENGTH = 4,000 PSI.
- REINFORCING STEEL = ASTM A615, GRADE 60.
- PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF WAY. ADDITIONAL BARS TO BE IN THE NOT TO SCALE
- TRIM OPENINGS WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
- PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- DETAIL DESIGN BY DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS, INDELL, NV

**MANHOLE CAP DETAIL**

**12\"/>**

**CONTECH**  
ENGINEERED SOLUTIONS LLC  
www.contechusa.com

4000 Campus Point Dr., Suite 400 • Wallingford, CT 06495  
203-938-1100 • 203-938-1100 • 203-938-1100

**CONTECH**  
CAP DETENTION SYSTEMS

**PROPOSAL**

DATE	DESCRIPTION	BY

MANHOLE CAP DETAIL

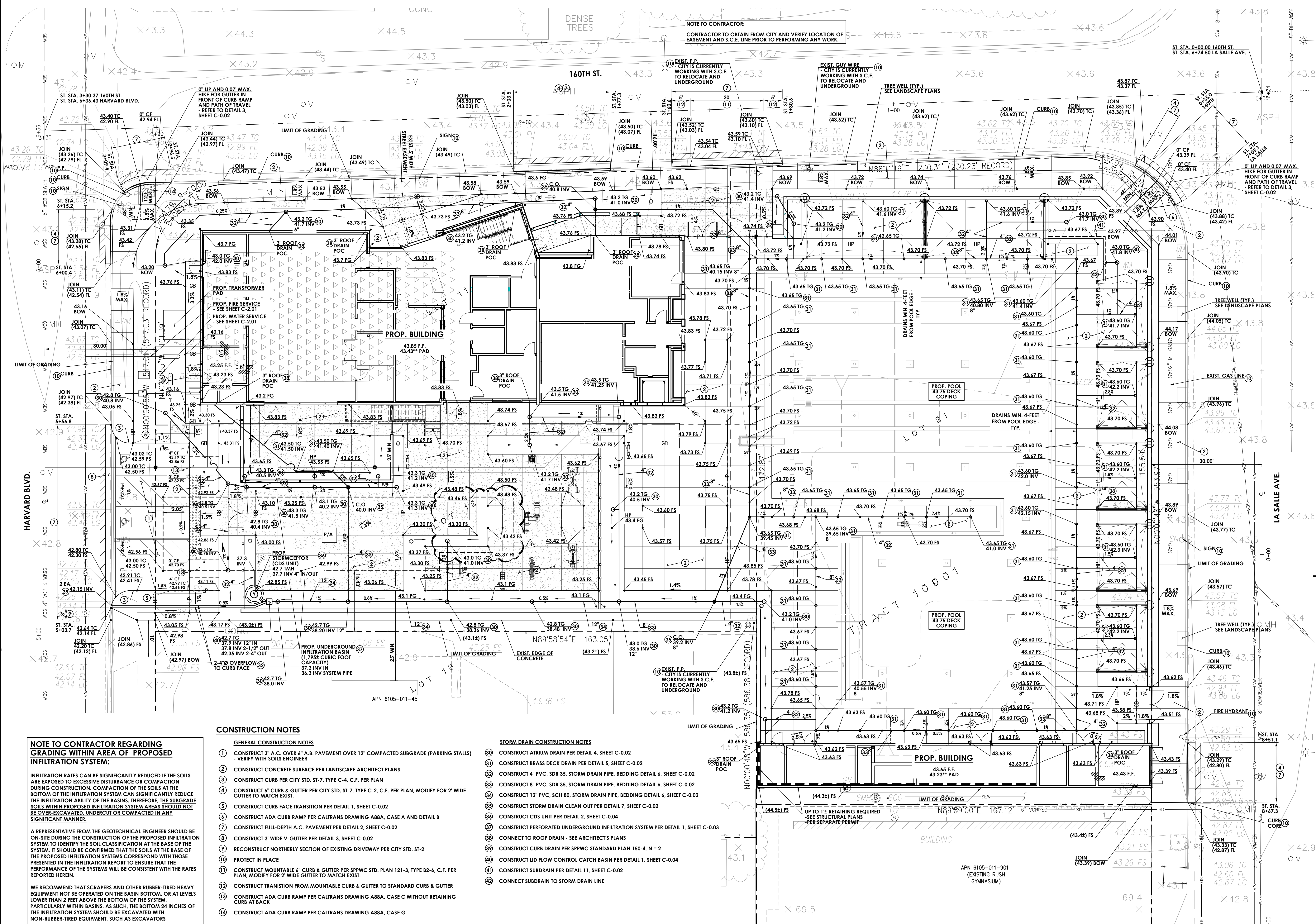
12\"/>

GARDENIA AQUATICS AND SENIOR CENTER  
GARDENIA, CA  
SITE DESIGNATION:

DATE: 10/27/2017  
BY: P5

DATE: 10/27/2017  
BY: P5





**\* NOTE TO CONTRACTOR:**  
CONTRACTOR TO VERIFY ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY DISCREPANCY.

**\*\* NOTE TO CONTRACTOR:**  
VERIFY STRUCT. SLAB SECTION (ASSUMED 5" PCC / VAPOR BARRIER) W/STRUCTURAL DRAWINGS AND SOILS ENGINEER'S REPORT PRIOR TO CONSTRUCTION AND NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY DISCREPANCY.

**NOTE TO CONTRACTOR:**  
LOCATE ALL EXISTING UTILITIES AS A FIRST ITEM OF WORK AND PROTECT THEM IN PLACE AS REQUIRED.

**NOTE TO CONTRACTOR:**  
ALL GRADING AND EARTHWORK IS TO BE DONE IN ACCORDANCE WITH THE EARTHWORK SPECIFICATION AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

**ENGINEER OF RECORD STATEMENT**  
ALL EASEMENTS HAVE BEEN SHOWN AS PER PROVIDED PRELIMINARY TITLE REPORTS BY FIDELITY NATIONAL TITLE CO. (ORDER NO. 987-30076443-1RV, DATED OCT. 28, 2021). LAWYER'S TITLE (FILE NO. 18254749, DATED SEPT. 7, 2018), AND FIDELITY NATIONAL TITLE CO. (ORDER NO. 989-3003538-D-D1, DATED FEB. 9, 2021).

THOMAS E. CARCELLI, P.E. DATE

UTILITY CONTACT NUMBERS:		
COMPANY	CONTACT	TELEPHONE NO.
CITY OF GARDENA P.W. TRAFFIC/ELECTRICAL	JEFF JALOMO	310-217-9430
CITY OF GARDENA P.W. SEWER	JOHN SCHERER	310-217-9599
METRO. WATER DISTRICT	CIVIL ENG. SUBSTRUCTURE SEC.	213-217-7059
L.A. COUNTY DEPARTMENT OF PUBLIC HEALTH		626-430-5360
L.A. DEPARTMENT OF WATER & POWER	JOSE PORRAS	213-367-1049
L.A. SANITATION DISTRICT	JON GANZ	562-908-4288
L.A. COUNTY FLOOD CONTROL DISTRICT	DARL CHENOWETH	626-458-3129
CHEVRON PIPELINE CO.	DAVE ZERLER	310-669-4014
CROWN CASTLE	HECTOR AGUILERA	951-454-5111
SOUTHERN CALIFORNIA EDISON COMPANY	MANNY MIGUELES	310-720-6086
SOUTHERN CALIFORNIA GAS COMPANY	SALVADOR GONZALES	310-970-4844
GOLDEN STATE WATER CO.	JOSEPH SALICUDO CONDE VENTURA	310-660-6320 X101 310-701-2500
AT&T/SBC/PACIFIC BELL	RAYMOND DOVE TERENCE LITTLE	310-515-4257 310-515-4252
TIME WARNER/SPECTRUM	ATRURO FERNANDEZ	310-750-9099
CALIFORNIA UNDERGROUND SERVICE ALERT (USA)		800-422-4133

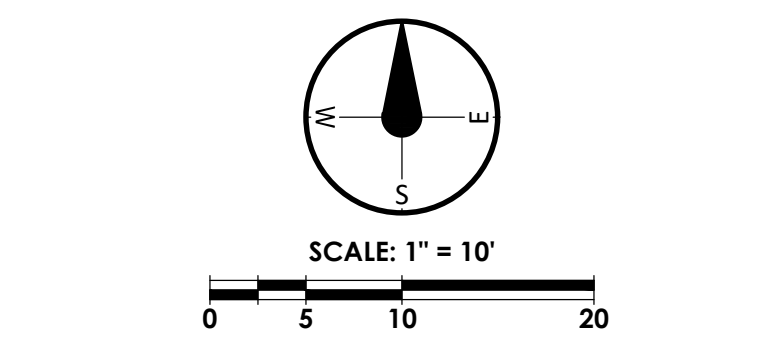
**EARTHWORK (SEE SHEET C-0.01)**

CUT	850 CUBIC YARDS
FILL	1,200 CUBIC YARDS
OVER-EXCAVATION	2,500 CUBIC YARDS

**SURVEYOR:**  
TED KRULL, PLS 5848  
STARLIGHT SURVEYING, INC.  
17955 SKY PARK CIR. STE F  
IRVINE, CA. 92614  
(949) 757-0613  
DATES OF SURVEY: NOV. 2021 AND JAN. 2022

**SOILS ENGINEER STATEMENT**  
THESE GRADING PLANS WERE REVIEWED AND APPROVED, AND THAT THEY COMPLY WITH ALL THE REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL/SOILS REPORT (GEOTECHNICAL INVESTIGATION PROPOSED COMMUNITY AQUATIC AND SENIOR CENTER BY SOUTHERN CALIFORNIA GEOTECHNICAL, INC. DATED NOVEMBER 18, 2021 AND RESULTS OF INFILTRATION TESTING BY SOUTHERN CALIFORNIA GEOTECHNICAL DATED NOVEMBER 19, 2021) AND GEOTECHNICAL/SOILS ENGINEER.

NAME DATE



**NOTE TO CONTRACTOR REGARDING GRADING WITHIN AREA OF PROPOSED INFILTRATION SYSTEM:**  
INFILTRATION RATES CAN BE SIGNIFICANTLY REDUCED IF THE SOILS ARE EXPOSED TO EXCESSIVE DISTURBANCE OR COMPACTION DURING CONSTRUCTION. COMPACTION OF THE SOILS AT THE BOTTOM OF THE INFILTRATION SYSTEM CAN SIGNIFICANTLY REDUCE THE INFILTRATION ABILITY OF THE BASINS. THEREFORE, THE SUBGRADE SOILS WITHIN PROPOSED INFILTRATION SYSTEM AREAS SHOULD NOT BE OVER-EXCAVATED, UNDERCUT OR COMPACTED IN ANY SIGNIFICANT MANNER.  
A REPRESENTATIVE FROM THE GEOTECHNICAL ENGINEER SHOULD BE ON-SITE DURING THE CONSTRUCTION OF THE PROPOSED INFILTRATION SYSTEM TO IDENTIFY THE SOIL CLASSIFICATION AT THE BASE OF THE SYSTEM. IT SHOULD BE CONFIRMED THAT THE SOILS AT THE BASE OF THE PROPOSED INFILTRATION SYSTEM CORRESPOND WITH THOSE PRESENTED IN THE INFILTRATION REPORT TO ENSURE THAT THE PERFORMANCE OF THE SYSTEMS WILL BE CONSISTENT WITH THE RATES REPORTED HEREIN.  
WE RECOMMEND THAT SCRAPERS AND OTHER RUBBER-TIRED HEAVY EQUIPMENT NOT BE OPERATED ON THE BASIN BOTTOM, OR AT LEVELS LOWER THAN 2 FEET ABOVE THE BOTTOM OF THE SYSTEM, PARTICULARLY WITHIN BASINS. AS SUCH, THE BOTTOM 24 INCHES OF THE INFILTRATION SYSTEM SHOULD BE EXCAVATED WITH NON-RUBBER-TIRED EQUIPMENT, SUCH AS EXCAVATORS

**CONSTRUCTION NOTES**

**GENERAL CONSTRUCTION NOTES**

- CONSTRUCT 3" A.C. OVER 4" A.B. PAVEMENT OVER 12" COMPACTED SUBGRADE (PARKING STALLS) - VERIFY WITH SOILS ENGINEER
- CONSTRUCT CONCRETE SURFACE PER LANDSCAPE ARCHITECT PLANS
- CONSTRUCT CURB PER CITY STD. ST-7, TYPE C-4, C.F. PER PLAN
- CONSTRUCT 4" CURB & GUTTER PER CITY STD. ST-7, TYPE C-2, C.F. PER PLAN, MODIFY FOR 2" WIDE GUTTER TO MATCH EXIST.
- CONSTRUCT CURB FACE TRANSITION PER DETAIL 1, SHEET C-0.02
- CONSTRUCT ADA CURB RAMP PER CALTRANS DRAWING AB8A, CASE A AND DETAIL B
- CONSTRUCT FULL-DEPTH A.C. PAVEMENT PER DETAIL 2, SHEET C-0.02
- CONSTRUCT 3" WIDE V-GUTTER PER DETAIL 3, SHEET C-0.02
- RECONSTRUCT NORTHERLY SECTION OF EXISTING DRIVEWAY PER CITY STD. ST-2
- PROTECT IN PLACE
- CONSTRUCT MOUNTABLE 6" CURB & GUTTER PER SPWVC STD. PLAN 121-3, TYPE B2-6, C.F. PER PLAN, MODIFY FOR 2" WIDE GUTTER TO MATCH EXIST.
- CONSTRUCT TRANSITION FROM MOUNTABLE CURB & GUTTER TO STANDARD CURB & GUTTER
- CONSTRUCT ADA CURB RAMP PER CALTRANS DRAWING AB8A, CASE C WITHOUT RETAINING CURB AT BACK
- CONSTRUCT ADA CURB RAMP PER CALTRANS DRAWING AB8A, CASE G

**STORM DRAIN CONSTRUCTION NOTES**

- CONSTRUCT ATRIUM DRAIN PER DETAIL 4, SHEET C-0.02
- CONSTRUCT BRASS DECK DRAIN PER DETAIL 5, SHEET C-0.02
- CONSTRUCT 4" PVC, SDR 35, STORM DRAIN PIPE, BEDDING DETAIL 6, SHEET C-0.02
- CONSTRUCT 8" PVC, SDR 35, STORM DRAIN PIPE, BEDDING DETAIL 6, SHEET C-0.02
- CONSTRUCT 12" PVC, SCH 80, STORM DRAIN PIPE, BEDDING DETAIL 6, SHEET C-0.02
- CONSTRUCT STORM DRAIN CLEAN OUT PER DETAIL 7, SHEET C-0.02
- CONSTRUCT CDS UNIT PER DETAIL 2, SHEET C-0.04
- CONSTRUCT PERFORATED UNDERGROUND INFILTRATION SYSTEM PER DETAIL 1, SHEET C-0.03
- CONNECT TO ROOF DRAIN - SEE ARCHITECT'S PLANS
- CONSTRUCT CURB DRAIN PER SPWVC STANDARD PLAN 150-4, N = 2
- CONSTRUCT LID FLOW CONTROL CATCH BASIN PER DETAIL 1, SHEET C-0.04
- CONSTRUCT SUBDRAIN PER DETAIL 11, SHEET C-0.02
- CONNECT SUBDRAIN TO STORM DRAIN LINE

**BASIS OF BEARINGS:**

BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF 162 ND STREET (FORMERLY MARKET STREET) BEING N 89° 55' 30" E SHOWN ON TRACT NO. 10901, M.B. 254/31-32

**BENCHMARK:**

THE CITY OF GARDENA BENCHMARK NO. 5D-15 ELEV. = 43.508

**DIGALERT**  
DIAL TOLL FREE  
1-800-422-4133  
AT LEAST TWO DAYS  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

**CITY OF GARDENA**  
PREPARED UNDER THE SUPERVISION OF:  
**RJM DESIGN GROUP**

**civTEC**  
999 CORPORATE DR.  
SUITE 100  
LADERA RANCH, CA 92694  
p: 949.463.8622  
e: tec@civtec.net

**PROFESSIONAL SEAL**  
THOMAS E. CARCELLI, P.E.  
CIVIL ENGINEER  
STATE OF CALIFORNIA  
8/22/2023

**RJM DESIGN GROUP**  
31591 Camino Capistrano  
San Juan Capistrano, CA 92675  
www.RJMDesignGroup.com  
(949) 493-2050 fax  
(949) 493-2050 phone

**LANDSCAPE ARCHITECT**  
STATE OF CALIFORNIA  
8/22/2023

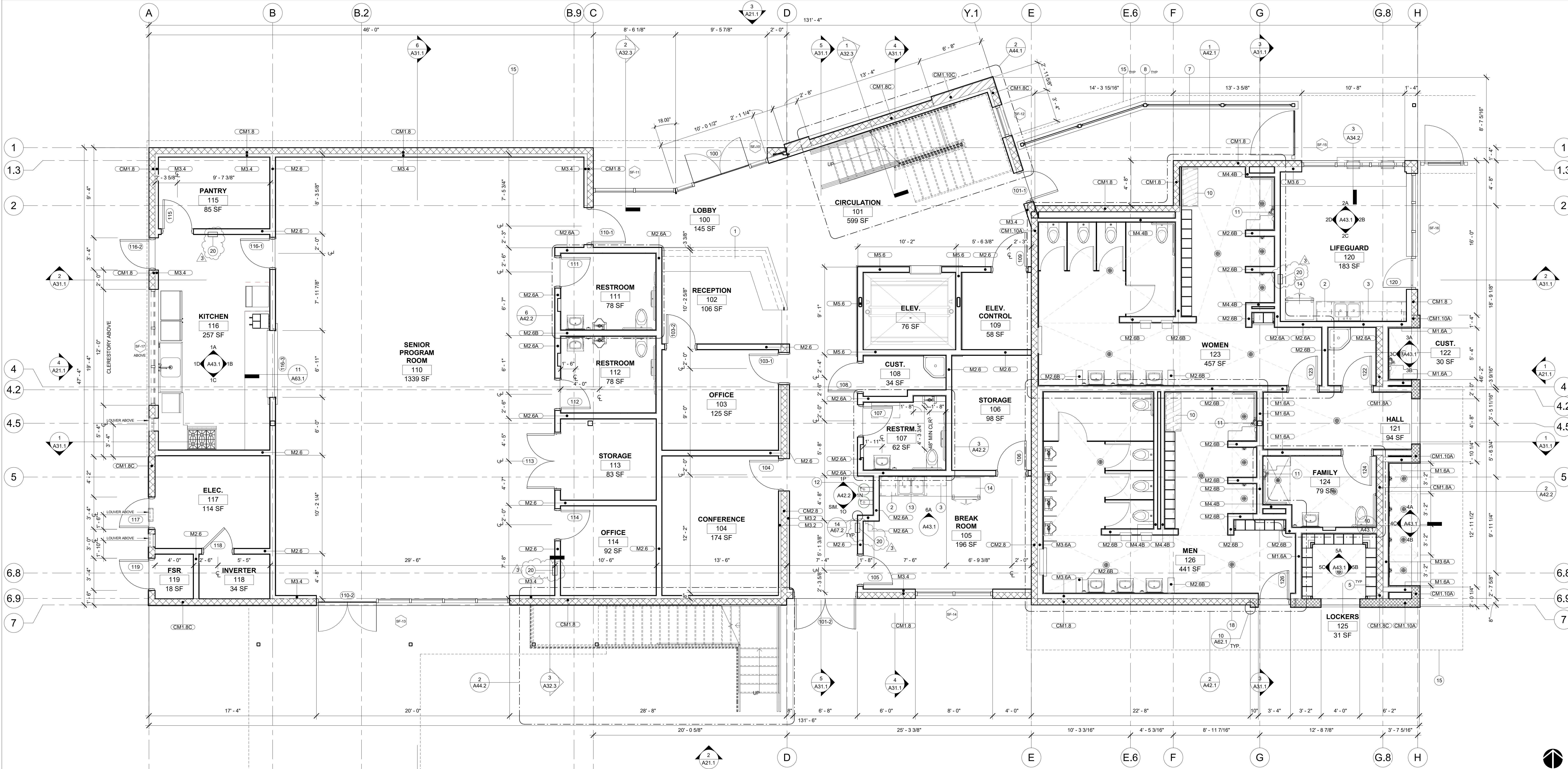
REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
1	90% CD SUBMITTAL	12/15/2022	
2	ADDENDUM #2	08/16/2023	
3	ADDENDUM #3	08/28/2023	

**CITY OF GARDENA**  
DEPARTMENT OF PUBLIC WORKS - ENGINEERING  
**PRECISE GRADING PLAN**  
COMMUNITY AQUATICS & SENIOR CENTER  
C-1.01  
DESIGNED BY: TEC  
DRAWN BY: STAFF  
CHECKED BY: TEC  
DATE: 8/22/2023  
SHEET: 10 OF 176  
DWG. NO.: 5-2606  
APPROVED BY: [Signature]  
DIRECTOR OF PUBLIC WORKS









**FIRST FLOOR PLAN** 1/4" = 1'-0" 1

1 SOLID SURFACE COUNTERTOP, SEE FINISH PLAN AND SPECS.

2 BASE PLASTIC LAMINATE MILLWORK, SEE DETAILS AND SPECS.

3 UPPER PLASTIC LAMINATE MILLWORK, SEE DETAILS AND SPECS.

4 FILLER PANEL @ SIDES OF CASEWORK, TYP.

5 PHENOLIC LOCKERS, SEE DETAILS AND SPECS.

6 9'-0" TALL STC S2 OPERABLE PARTITION

7 12" WIDE 42" TALL CMU WALL, PER LANDSCAPE

8 4" HSS TUBE STEEL POSTS, PAINTED

9 STEEL GUARDRAIL, PAINTED

10 ADA LOCKER ROOM BENCH

11 ADA SHOWER, FOR MOUNTING HEIGHTS SEE 1 / A67.2

12 DRINKING FOUNTAIN, FOR MOUNTING SEE 2 / GEN-5 & 8 / A67.1

13 ACCESSIBLE SINK

14 REFRIGERATOR, SEE SPECS, CFCI

15 OVERHEAD LINES

16 GLULAM COLUMNS STANE GRADE WITH MARINE GRADE VARNISH

17 ROOF ACCESS LADDER

18 FLOOR DRAIN, SEE PLUMBING PLANS

19 EXTERIOR SHOWER WITH OVERHEAD COVER

20 FIRE EXTINGUISHER CABINET 3 / A65.1

30"x48" CLR.

30"x48" MIN. ACCESSIBLE WHEELCHAIR CLEAR FLOOR SPACE

8" CMU WALL PER SHEET A61.1

10" CMU WALL PER SHEET A61.1

12" CMU WALL PER SHEET A61.1

METAL STUD WALL PER SHEET A61.1

RETAINING WALL - SEE STRUCT. DWGS. FOR ADDL. INFO.

WALL TYPE ANNOTATIONS, SEE SHEET A61.1 FOR DETAILS

101 NUMBER INDICATES DOOR PER SCHEDULE, REFER TO SHEET A52.1

1 NUMBER INDICATED STOREFRONT PER SCHEDULE, REFER TO SHEET A52.2

F.E. FIRE EXTINGUISHER CABINET PER DET. 3/A65.1

60" MIN. WHEELCHAIR CLEAR TURNING SPACE

**FLOOR PLAN GENERAL NOTES:**

1. ALL DIMENSIONS ARE TO CENTERLINE OF THE GRID LINES AND/OR TO THE FACE OF STUDS, U.N.O.

2. UNLESS NOTED OTHERWISE, ALL WALLS ARE FULL HEIGHT.

3. REFER TO SHEET GEN-4 FOR TYPICAL ACCESSIBILITY REQUIREMENTS AND DIMENSIONS.

4. REFER TO ENLARGED PLANS FOR DIMENSIONS AND CALLOUTS NOT SHOWN HERE.

**FLOOR PLAN KEYNOTES**

**CITY OF GARDENA**

INCORPORATED 1950

**SVA**

ARCHITECTS

8 HUTTON CENTRE DR., SUITE 1150  
SANTA ANA, CA 92707  
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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**REVISIONS**

NO.	DESCRIPTION	DATE	APPROVED
1	90% CD SUBMITTAL	12/15/2022	
2	ADDENDUM #2	08/16/2023	
3	ADDENDUM #3	06/26/2023	

B.M.: THE CITY OF GARDENA BENCHMARK NO. SD-15  
ELEV. = 43.59'

**CITY OF GARDENA**

DEPARTMENT OF PUBLIC WORKS - ENGINEERING

**FIRST FLOOR PLAN**

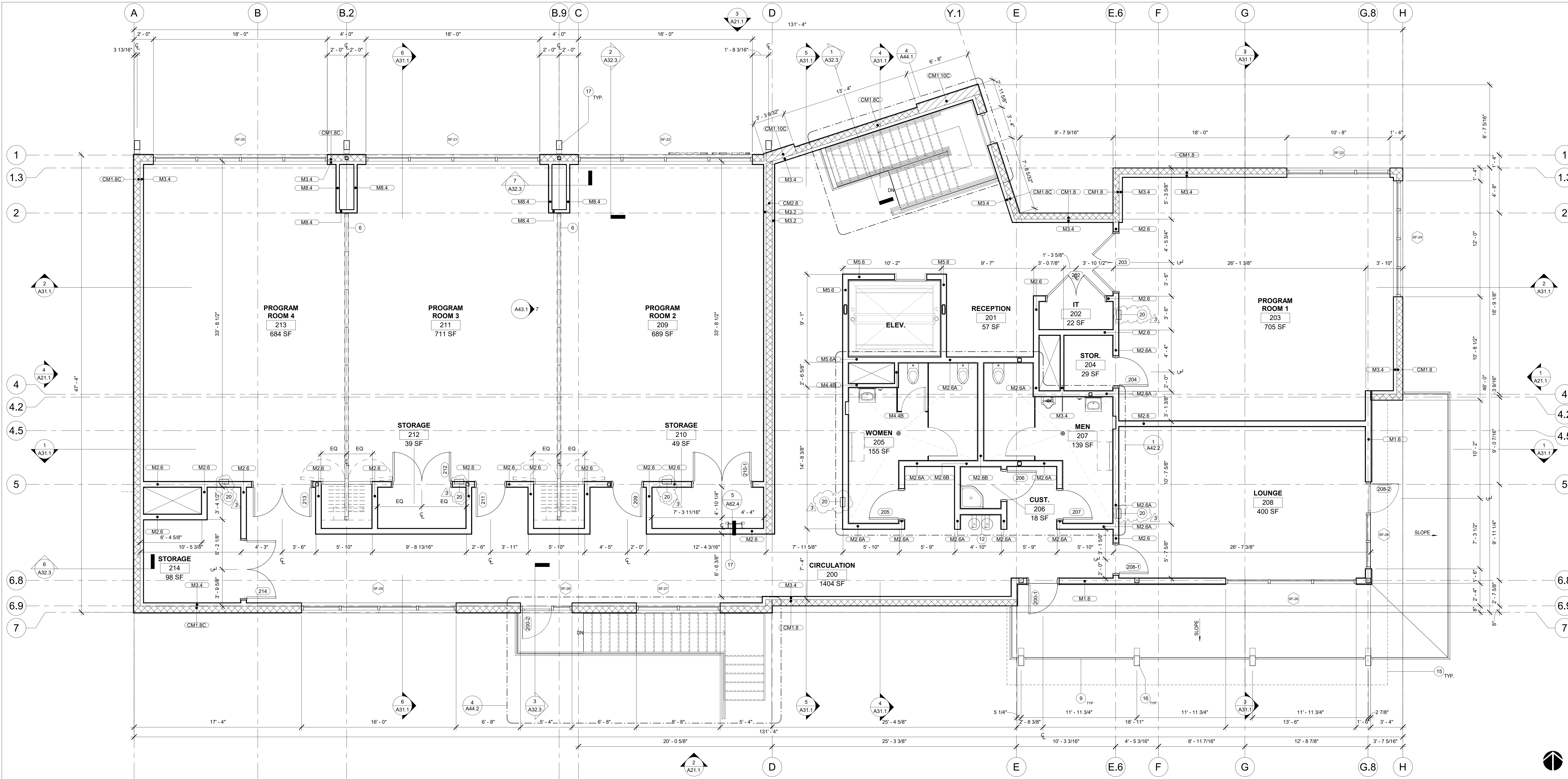
**COMMUNITY AQUATICS & SENIOR CENTER**

**A11.2**

DESIGNED BY	AP/HC	DATE	APPROVED BY:
DRAWN BY	HC	06/29/23	
CHECKED BY	DB	06/29/23	

SHT. 47 OF 176 DWG. NO. 5-2606





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

1 SOLID SURFACE COUNTERTOP, SEE FINISH PLAN AND SPECS.

2 BASE PLASTIC LAMINATE MILLWORK, SEE DETAILS AND SPECS.

3 UPPER PLASTIC LAMINATE MILLWORK, SEE DETAILS AND SPECS.

4 FILLER PANEL @ SIDES OF CASEWORK, TYP.

5 PHENOLIC LOCKERS, SEE DETAILS AND SPECS.

6 9'-0" TALL STC S2 OPERABLE PARTITION

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14 REFRIGERATOR, SEE SPECS, CFCI

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16 GLULAM COLUMNS STANE GRADE WITH MARINE GRADE VARNISH

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18 FLOOR DRAIN, SEE PLUMBING PLANS

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30"x48" CLR.

30"x48" MIN. ACCESSIBLE WHEELCHAIR CLEAR FLOOR SPACE

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METAL STUD WALL PER SHEET A61.1

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1 NUMBER INDICATED STOREFRONT PER SCHEDULE, REFER TO SHEET A52.2

F.E. FIRE EXTINGUISHER CABINET PER DET. 3/A65.1

60" MIN. ACCESSIBLE WHEELCHAIR CLEAR TURNING SPACE

**FLOOR PLAN GENERAL NOTES:**

1. ALL DIMENSIONS ARE TO CENTERLINE OF THE GRID LINES AND/OR TO THE FACE OF STUDS, U.N.O.

2. UNLESS NOTED OTHERWISE, ALL WALLS ARE FULL HEIGHT.

3. REFER TO SHEET GEN-4 FOR TYPICAL ACCESSIBILITY REQUIREMENTS AND DIMENSIONS.

4. REFER TO ENLARGED PLANS FOR DIMENSIONS AND CALLOUTS NOT SHOWN HERE.

**FLOOR PLAN KEYNOTES**

**FLOOR PLAN LEGEND**

**CITY OF GARDENA**

DEPARTMENT OF PUBLIC WORKS - ENGINEERING

**SECOND FLOOR PLAN**

**COMMUNITY AQUATICS & SENIOR CENTER**

**A11.3**

PREPARED BY:

8 HUTTON CENTRE DR, SUITE 1150  
SANTA ANA, CA 92707  
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

**SVA**  
ARCHITECTS

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**REVISIONS**

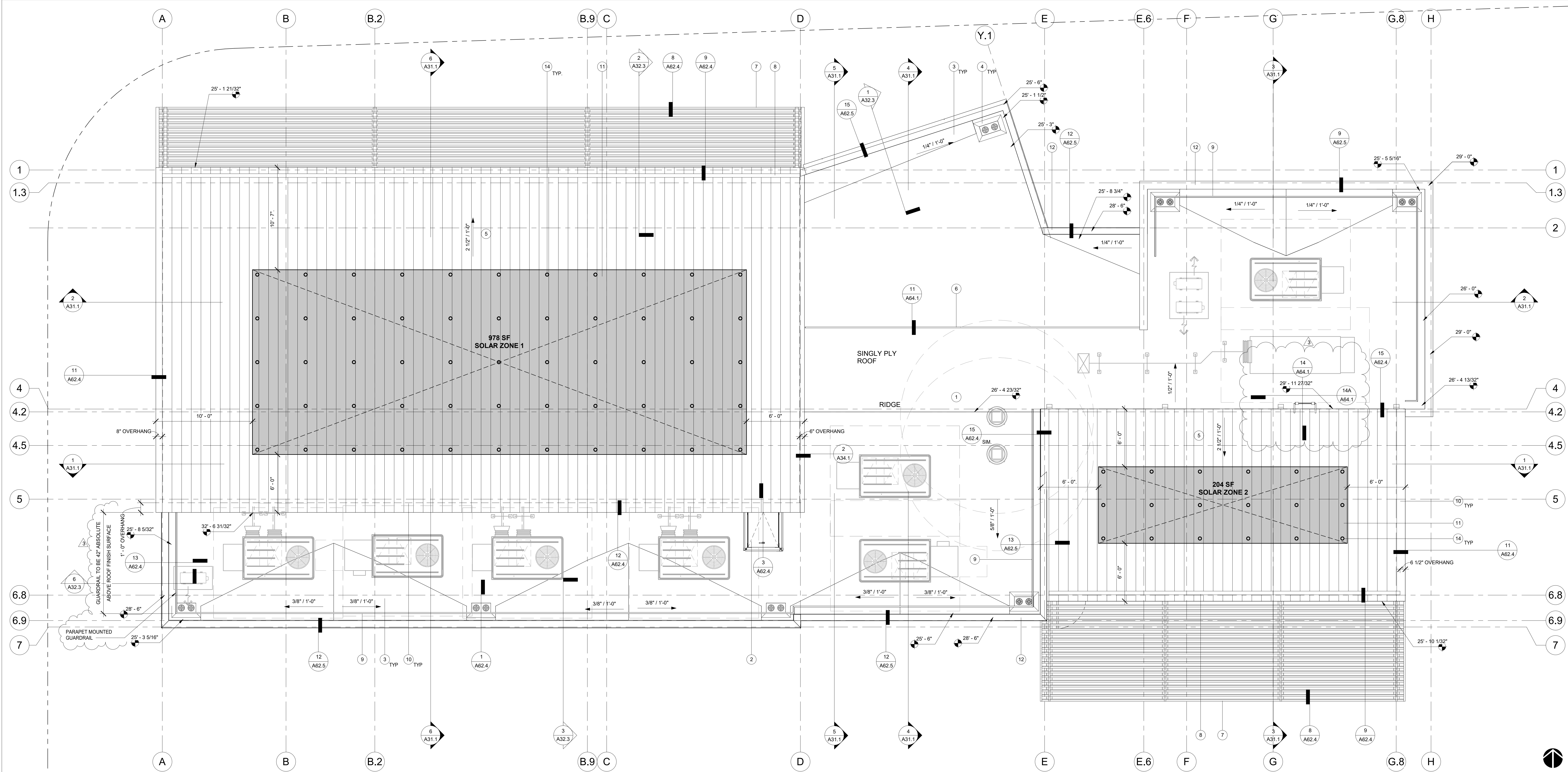
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DESIGNED BY: AP/HC 06/25/2022  
DRAWN BY: HC 06/29/23  
CHECKED BY: DB 06/29/23

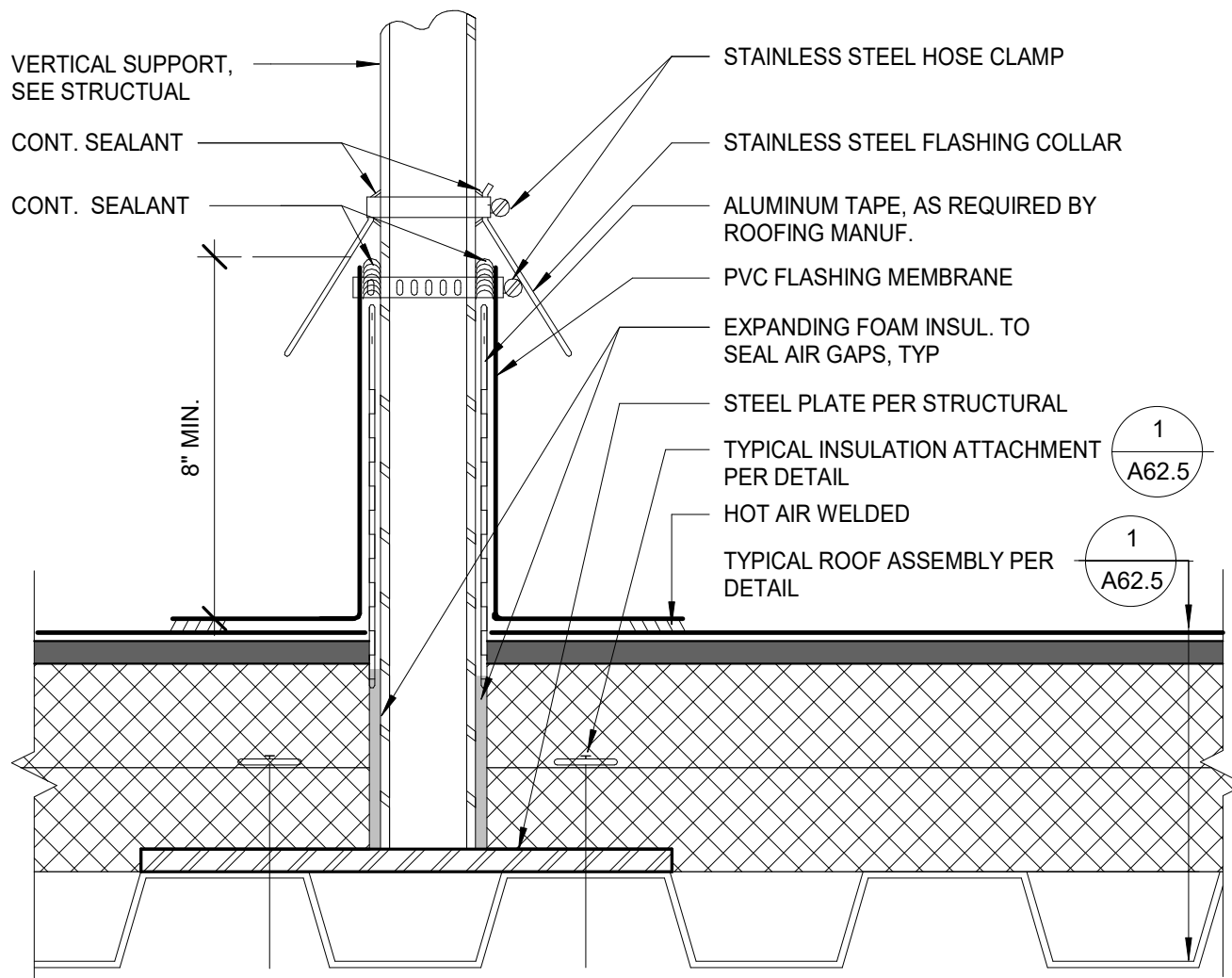
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APPROVED BY: [Signature]  
APPROVED BY: [Signature]

SHT. 48 OF 176 DWG. NO. 5-2606





ROOF PLAN 1/4" = 1'-0" 1



VERTICAL SOLAR SUPPORT FLASHING 3" = 1'-0" 2

**SOLAR ZONE**  
SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION AND SPACING REQUIREMENTS AS SPECIFIED IN THE CFC AND BY THE LOCAL FIRE AUTHORITY

POTENTIAL LOCATION OF VERTICAL SUPPORT FOR SOLAR PANEL FRAMING SYSTEM 2 / A11.4

**SOLAR AREA REQUIREMENTS: CALIFORNIA ENERGY CODE 110.10B**  
SOLAR ZONE SHALL BE NO LESS THAN 15% OF TOTAL ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHT AREA.

TOTAL ROOF AREA	5,936SF
TOTAL SKYLIGHT AREA	N/A
15% ROOF AREA	890.4SF
AVAILABLE SOLAR ZONE AREA	978SF
SOLAR ZONE 1	978SF
SOLAR ZONE 2	204SF
TOTAL AREA	1,182SF > 890.4SF THUS OK

**NOTES:**  
1. FOR TYPICAL ROOF PENETRATION DETAIL SEE 3 / A62.5  
2. SOLAR CONTRACTOR TO DETERMINE SOLAR PANEL SUPPORT FRAMING DESIGN IN COMPLIANCE WITH SOLAR PANEL MANUFACTURERS INSTALLATION INSTRUCTIONS.

SOLAR NOTES

- ROOF PLAN KEYNOTES**
- GRAY PVC MEMBRANE ROOFING O/ DENSDECK, O/ R-40 RIGID INSULATION 1 / A62.5  
O/ VAPOR BARRIER O/ STRUCTURAL DECK
  - ROOF ACCESS HATCH PER DETAIL 3 / A62.4
  - BUILT-UP FOAM CRICKETS
  - ROOF DRAIN AND O/FLOW DRAIN 1 / A62.4
  - GRAY PVC MEMBRANE ROOFING W/ ADHERED RIBS O/ DENSDECK, O/ R-40 RIGID INSULATION O/ VAPOR BARRIER O/ STRUCTURAL DECK
  - ROOF MOUNTED STEEL GUARDRAIL, PAINTED PER DETAIL 11 / A64.1
  - ALUMINUM TRELLIS, PAINTED
  - INTEGRAL GUTTER, PER DETAIL 9 / A62.4
  - PARAPET MOUNTED GUARDRAILING, PER DETAIL 13 / A62.4
  - LINE OF WALL BELOW
  - SOLAR ZONE, REFER TO SOLAR NOTES ON THIS PAGE
  - TOP OF PARAPET
  - MECHANICAL EQUIPMENT, SEE MECH. PLANS. FOR EQUIP. PAD SEE DETAIL 4 / A62.5
  - POTENTIAL VERTICAL SUPPORT FOR SOLAR PANEL FRAMING SYSTEM 2 / A11.4

ROOF PLAN KEYNOTES

PREPARED BY:  
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SANTA ANA, CA 92707  
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

**SVA**  
ARCHITECTS



REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
1	90% CD SUBMITTAL	12/15/2022	
2	ADDENDUM #2	08/16/2023	
3	ADDENDUM #3	06/26/2023	

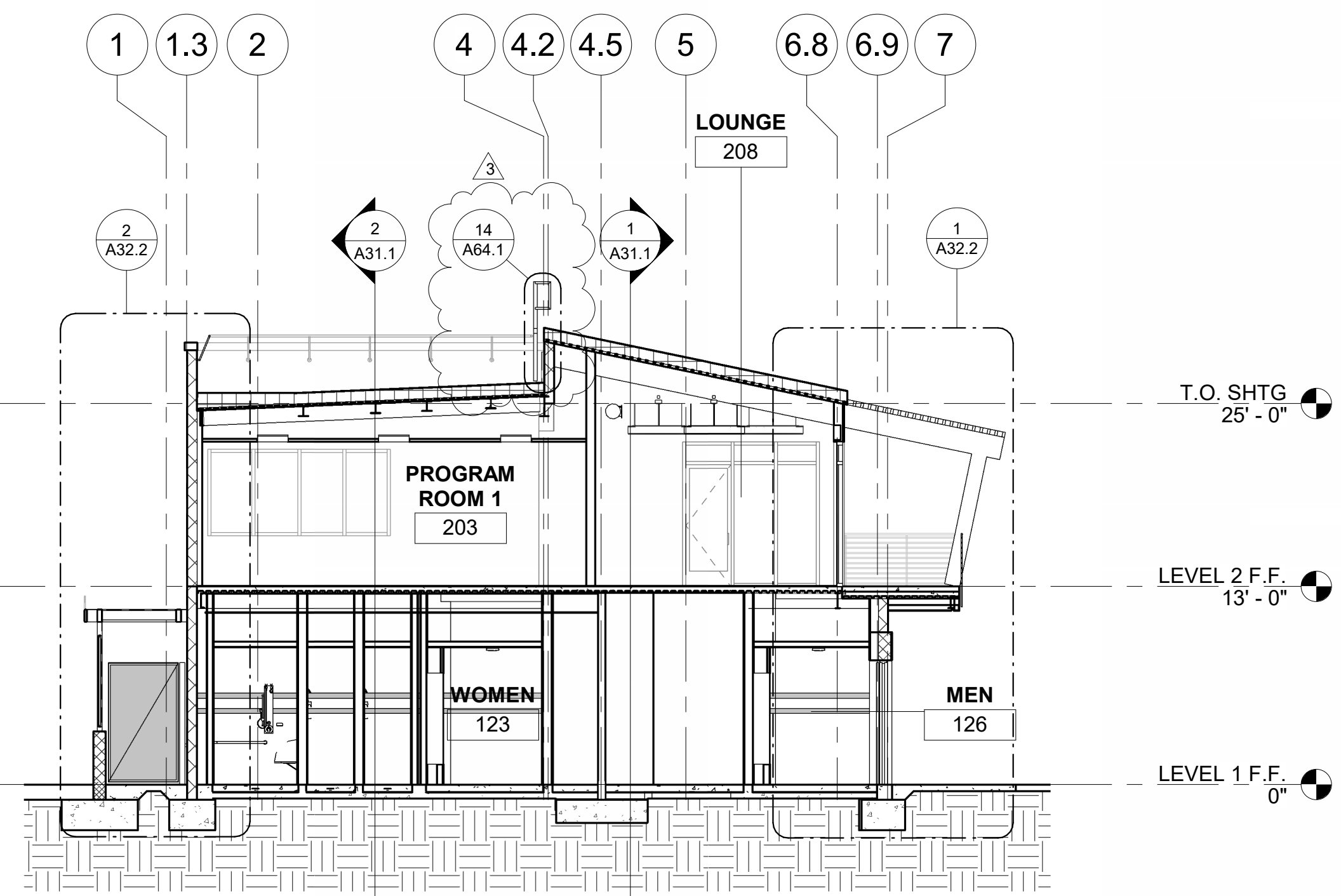
**CITY OF GARDENA**  
DEPARTMENT OF PUBLIC WORKS - ENGINEERING

**ROOF PLAN**  
COMMUNITY AQUATICS & SENIOR CENTER  
A11.4

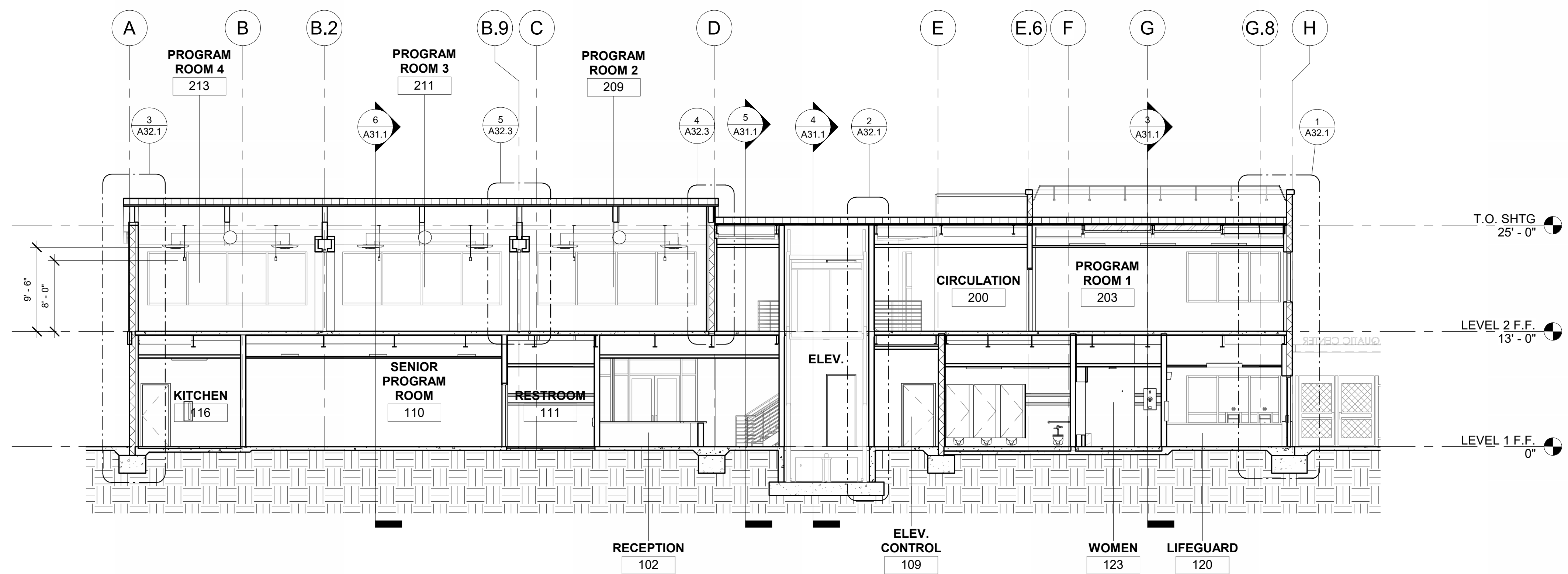
DESIGNED BY	AP/HC	DATE	APPROVED BY:
DRAWN BY	HC	06/26/23	
CHECKED BY	DB	06/29/23	

SHT. 49 OF 176 DWG. NO. 5-2606

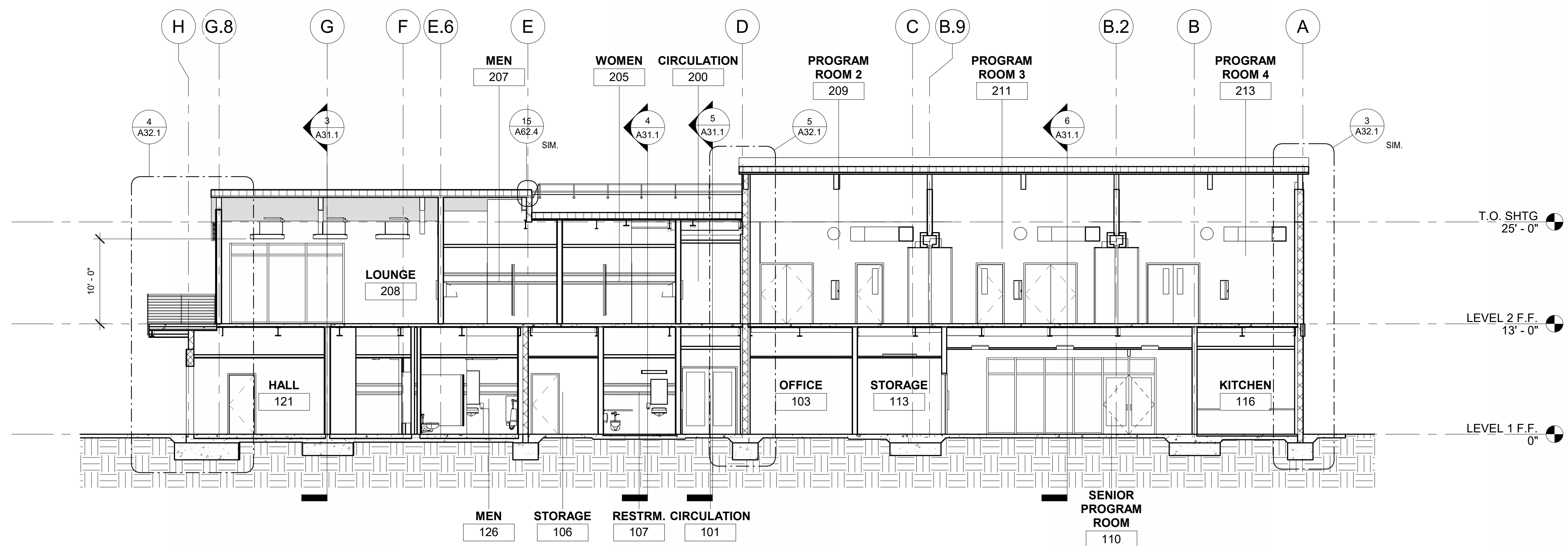




<b>SECTION 3</b>	1/8" = 1'-0"	<b>3</b>
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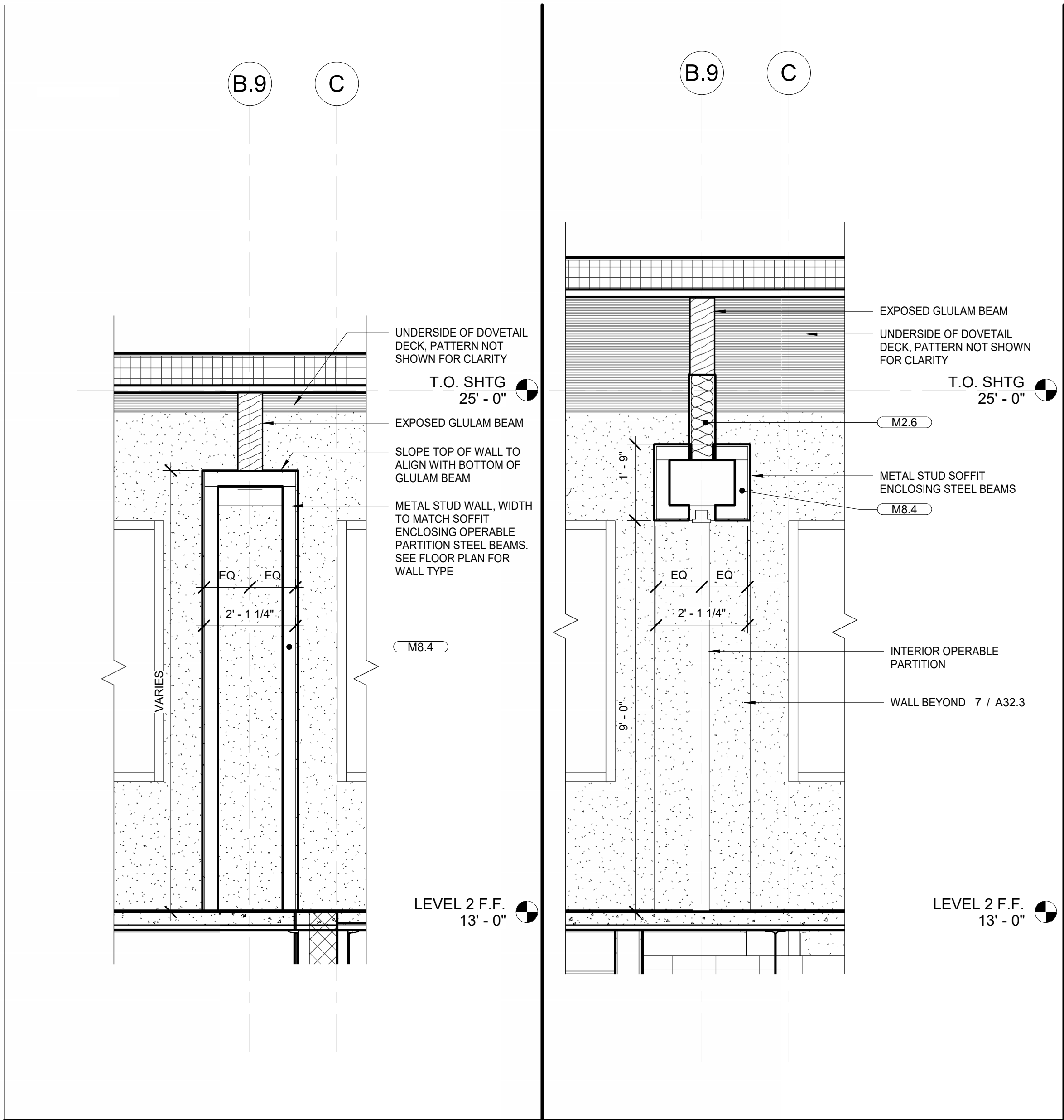


<b>SECTION 2</b>	$1/8" = 1'-0"$	<b>2</b>
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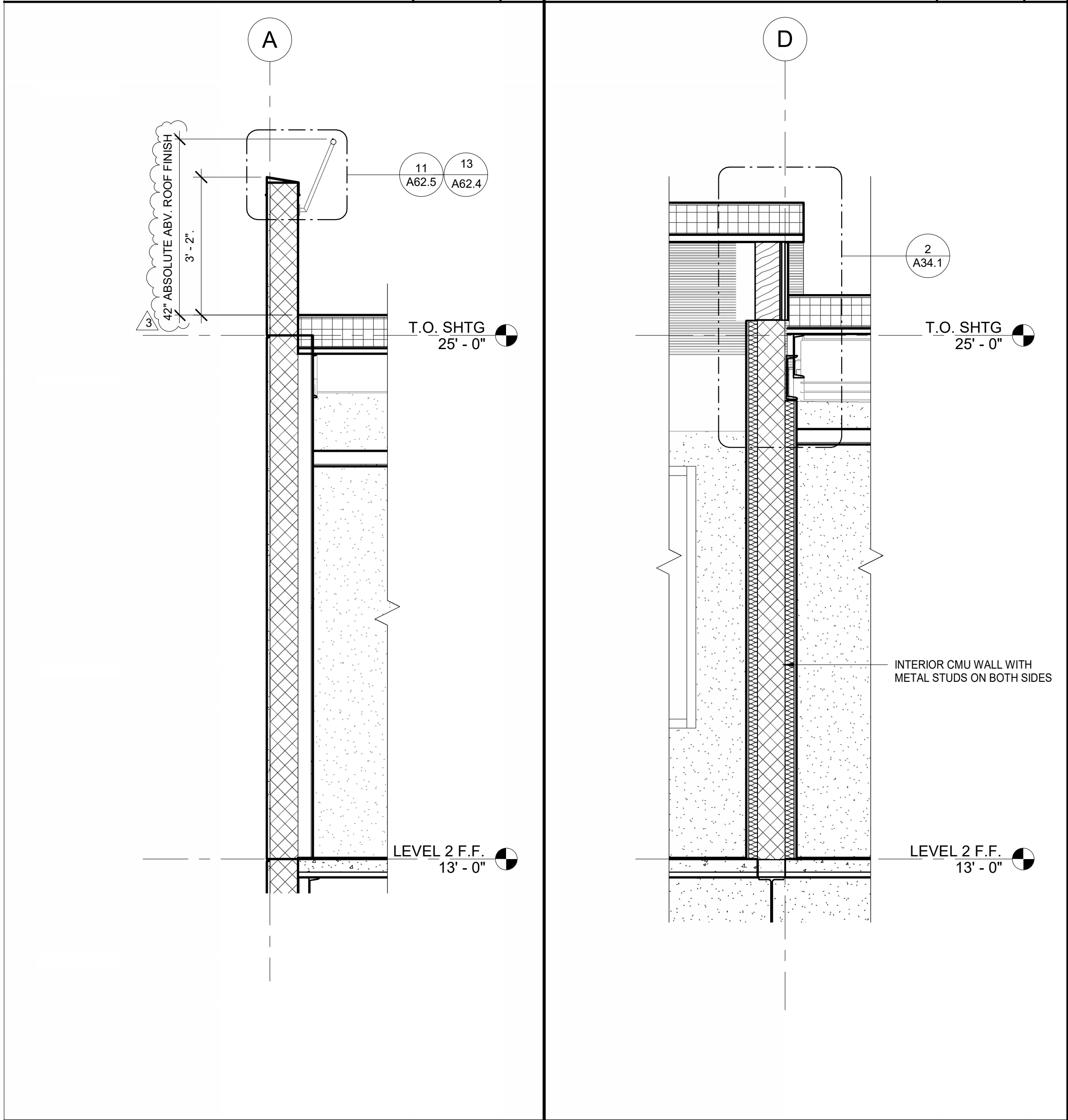


<b>SECTION 1</b>	$1/8" = 1'-0"$	<b>1</b>
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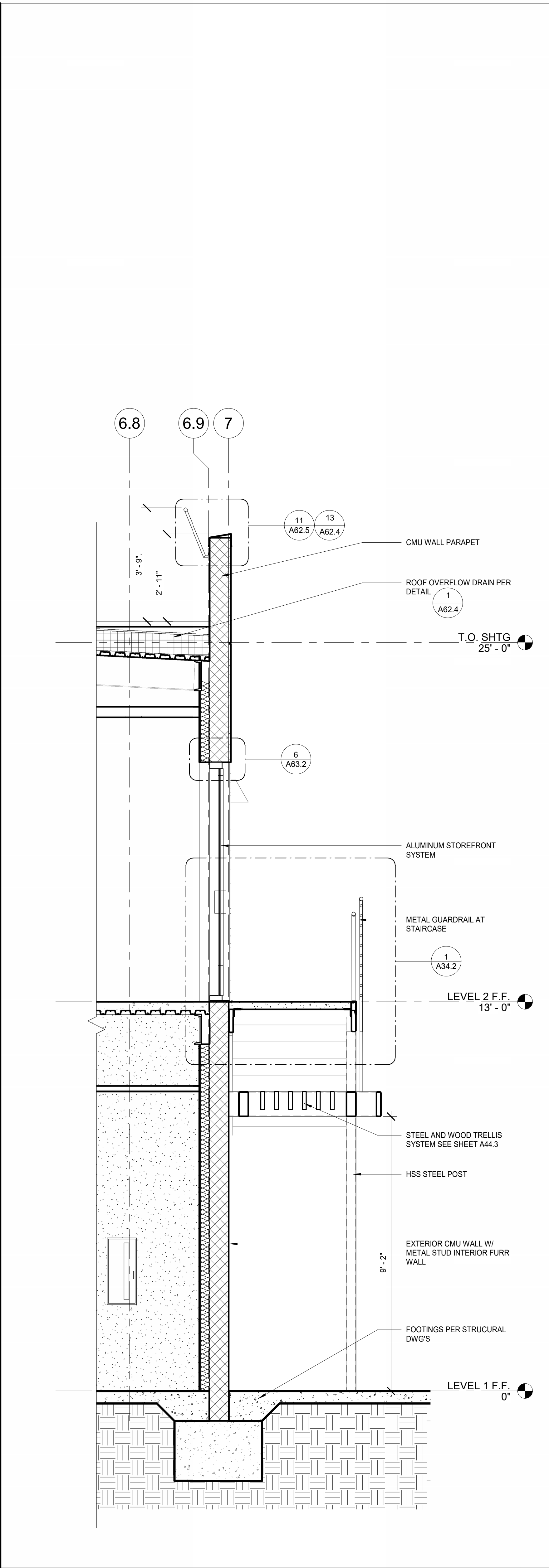




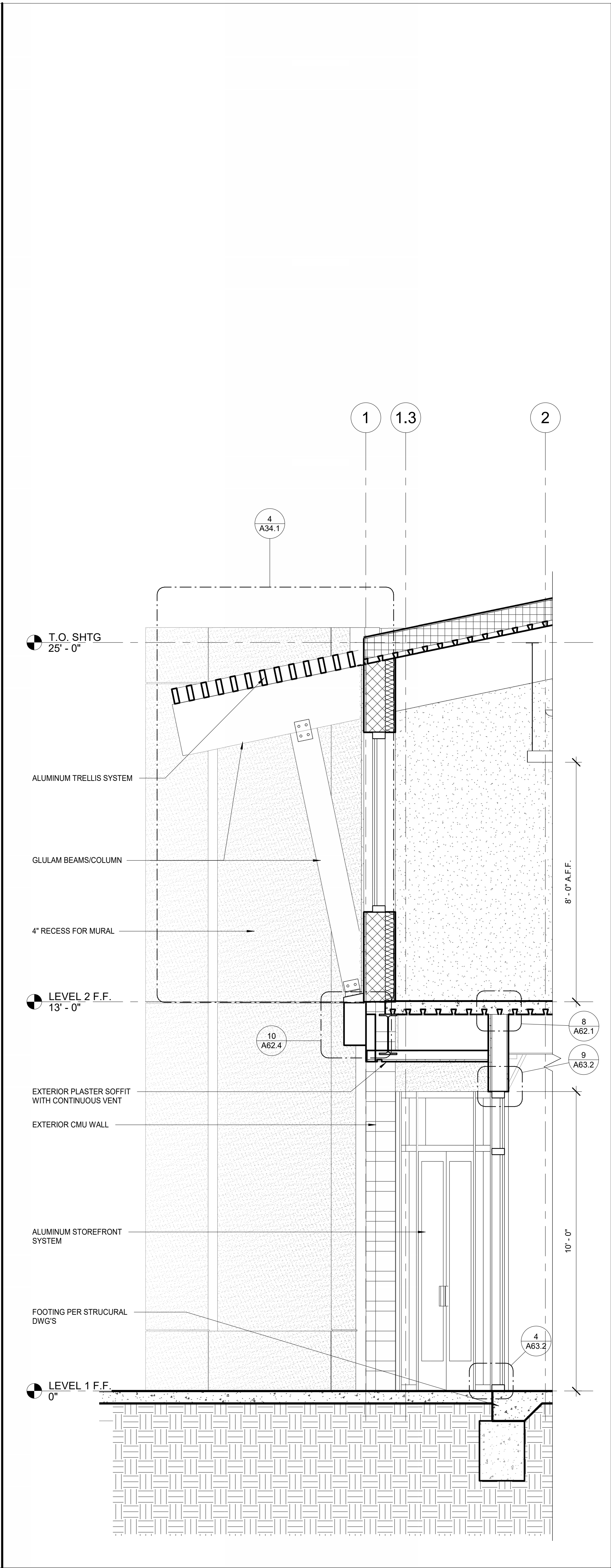
WALL SECTION 15 1/2" = 1'-0" 7 WALL SECTION 13 1/2" = 1'-0" 5



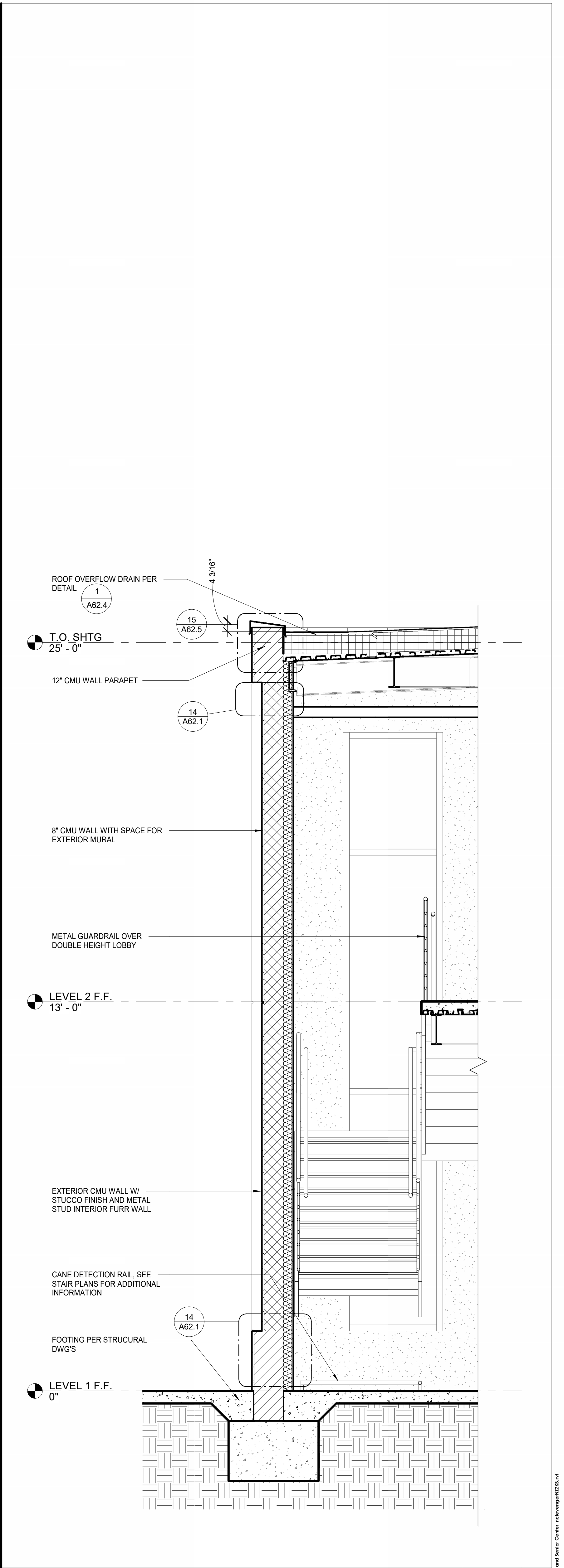
WALL SECTION 16 1/2" = 1'-0" 6 WALL SECTION 14 1/2" = 1'-0" 4




WALL SECTION 12 1/2" = 1'-0" 3



WALL SECTION 11 1/2" = 1'-0" 2



WALL SECTION 10 1/2" = 1'-0" 1



**CITY OF GARDENA**  
INCORPORATED 1950

PREPARED BY:  
**SVA ARCHITECTS**  
8 HUTTON CENTRE DR., SUITE 1150  
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**REVISIONS**

NO.	DESCRIPTION	DATE	APPROVED
1	90% CD SUBMITTAL	12/15/2022	
2	ADDENDUM #2	08/16/2023	
3	ADDENDUM #3	06/26/2023	

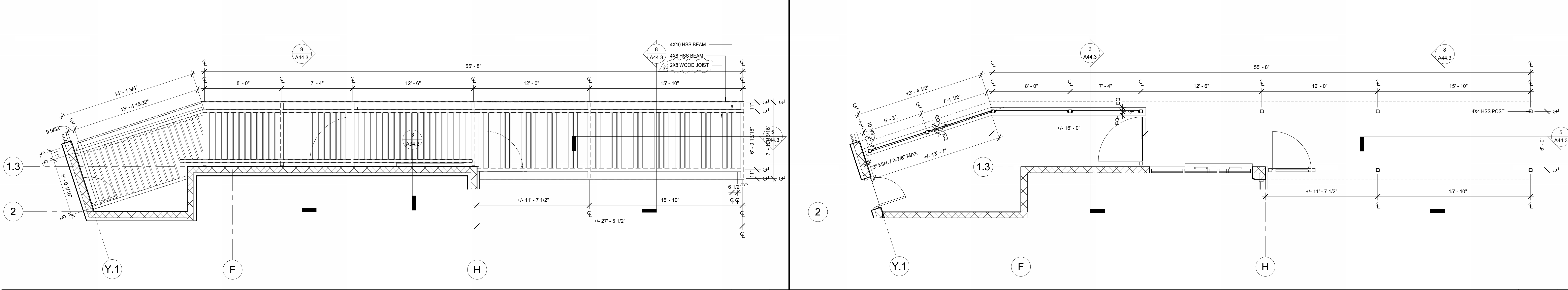
**CITY OF GARDENA**  
DEPARTMENT OF PUBLIC WORKS - ENGINEERING  
WALL SECTIONS  
COMMUNITY AQUATICS & SENIOR CENTER  
A32.3

DESIGNED BY: AP/HC 05/25/2022  
DRAWN BY: HC 04/29/23  
CHECKED BY: DB 04/29/23

APPROVED BY: [Signature]  
DIRECTOR OF PUBLIC WORKS

SHT. 56 OF 176 DWG. NO. 5-2606





ENLARGED NORTH TRELLIS SECOND FLOOR PLAN

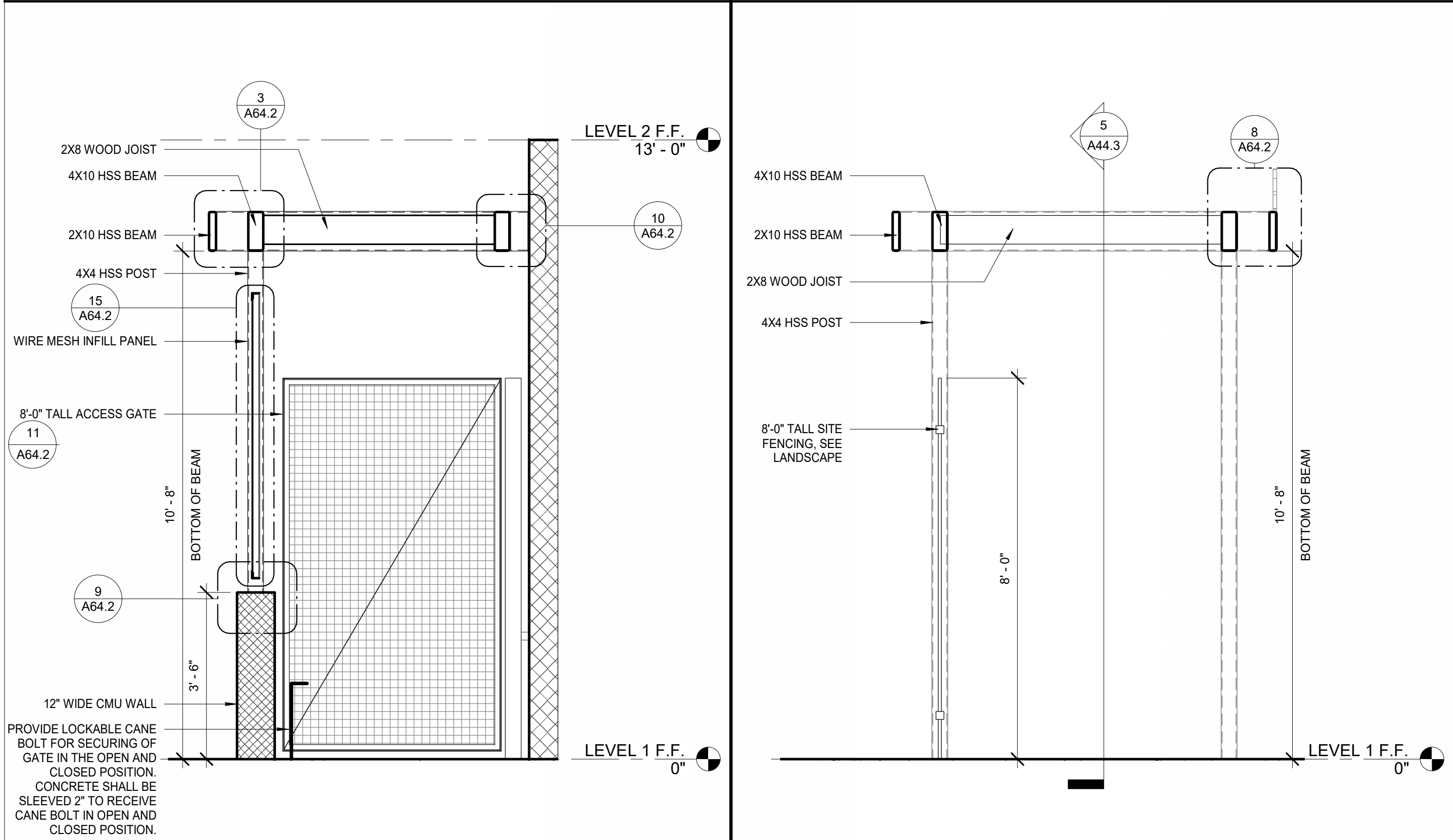
1/4" = 1'-0"

6

ENLARGED NORTH TRELLIS FIRST FLOOR PLAN

1/4" = 1'-0"

3



NORTH TRELLIS SECTION 3

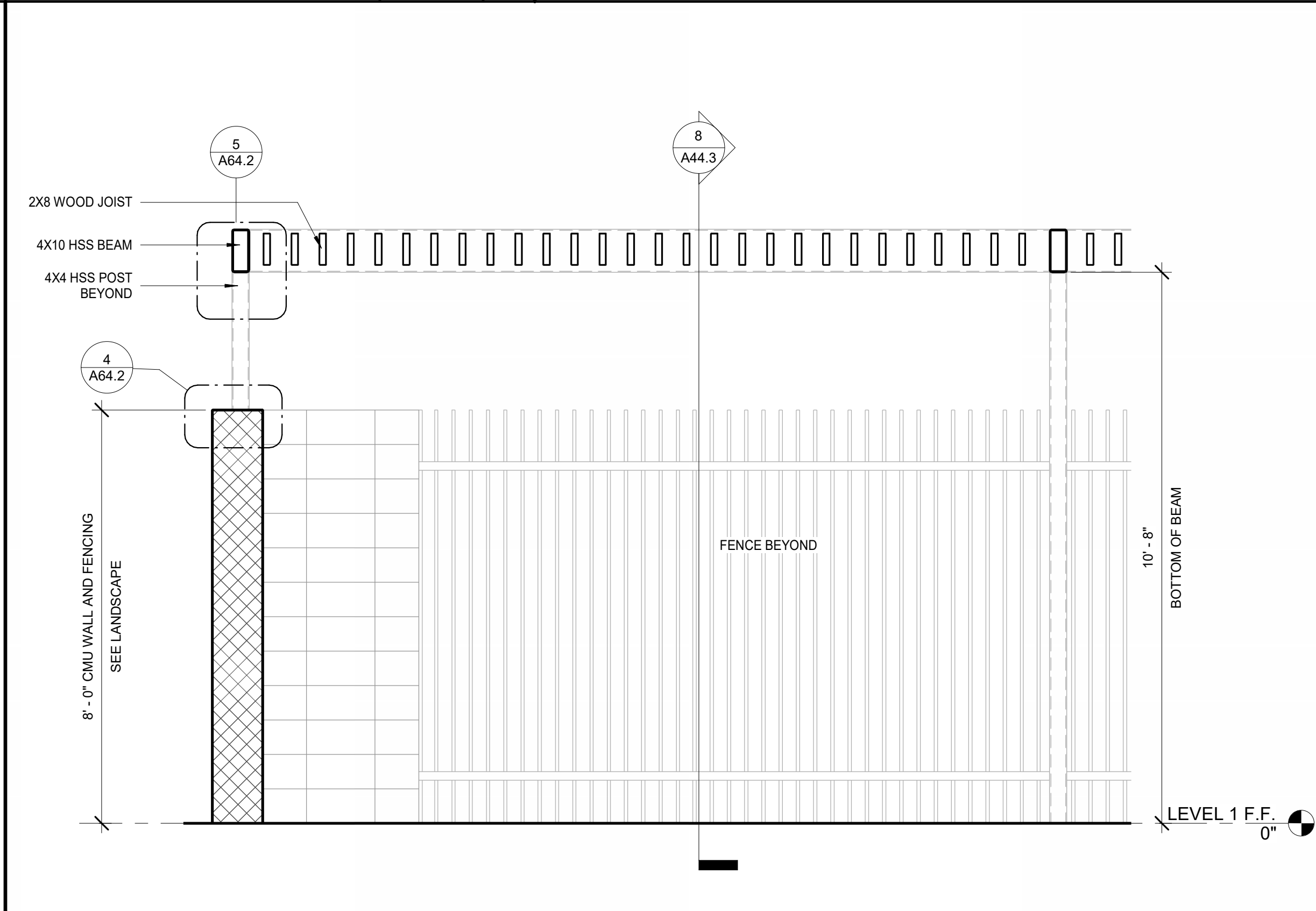
1/2" = 1'-0"

9

NORTH TRELLIS SECTION 2

1/2" = 1'-0"

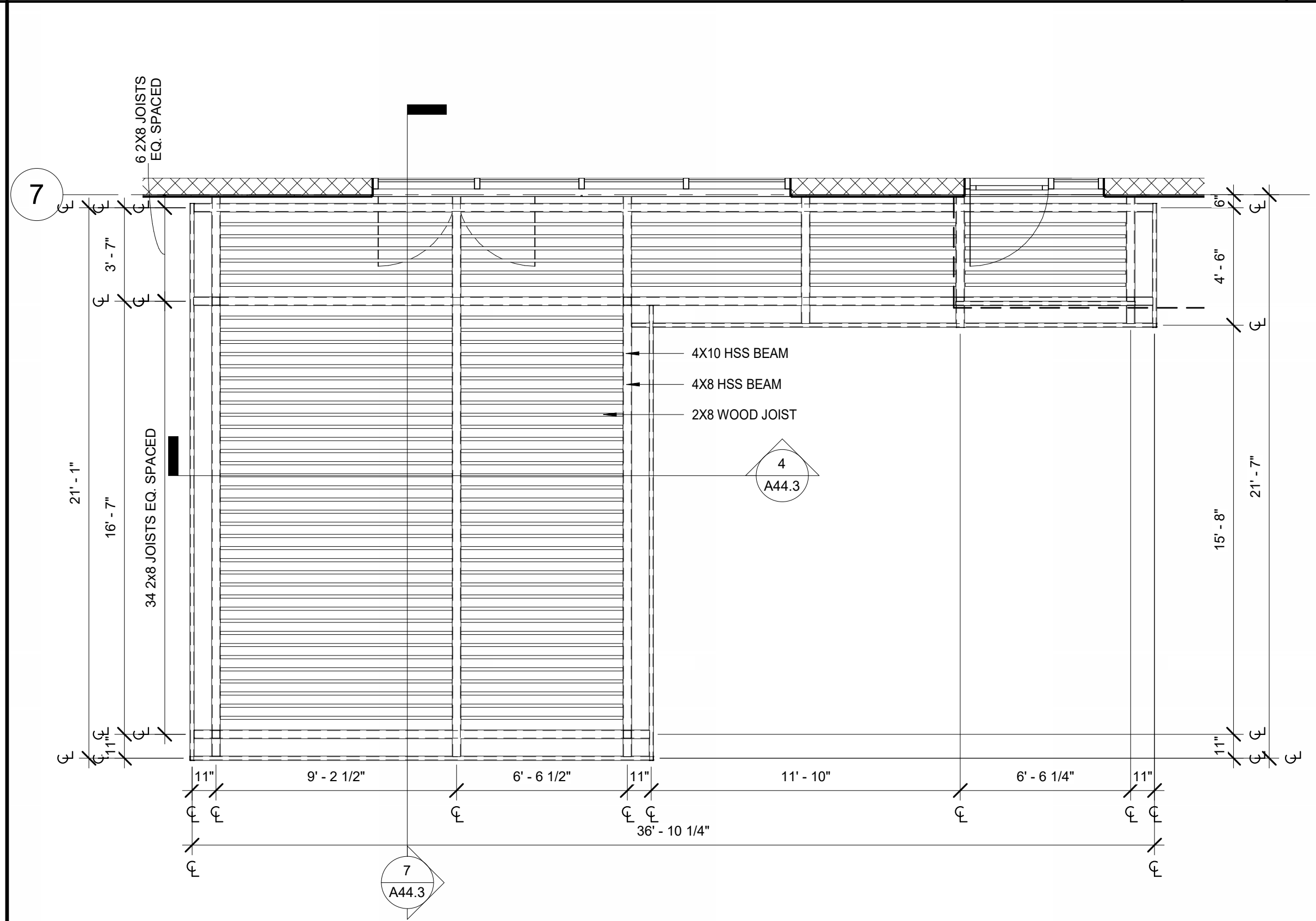
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NORTH TRELLIS SECTION 1

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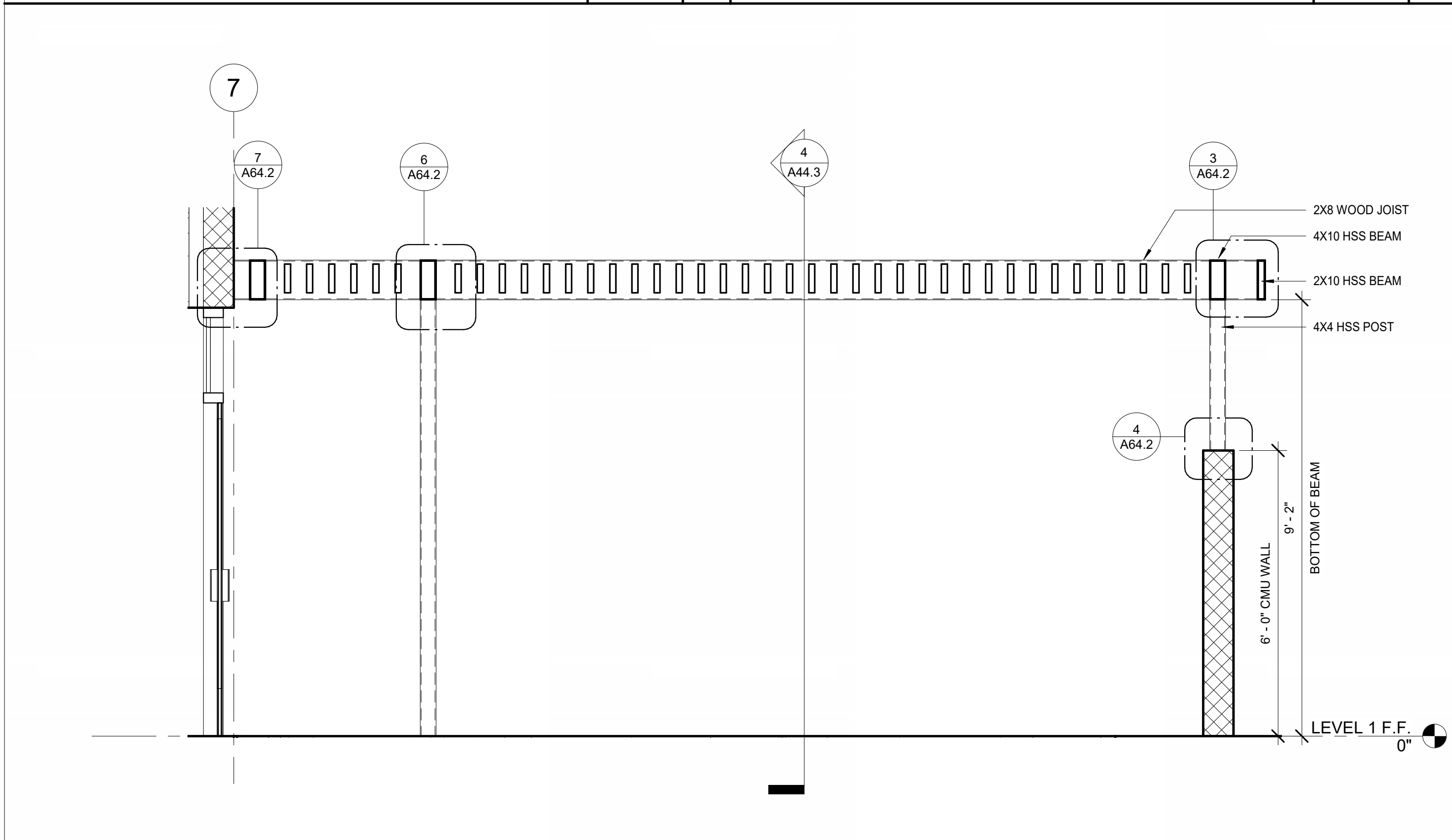
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ENLARGED SOUTH TRELLIS SECOND FLOOR PLAN

1/4" = 1'-0"

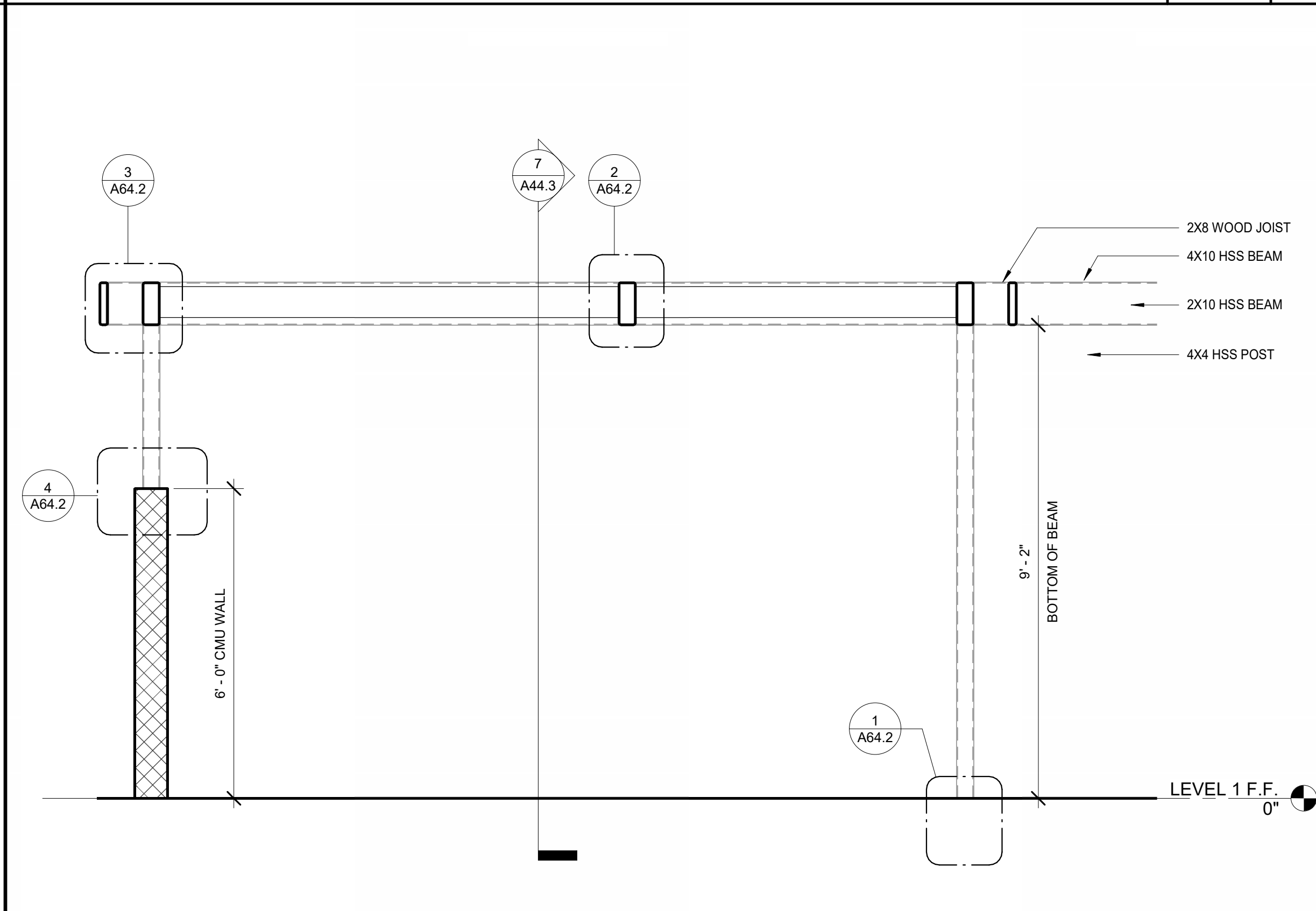
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SOUTH TRELLIS SECTION 2

1/2" = 1'-0"

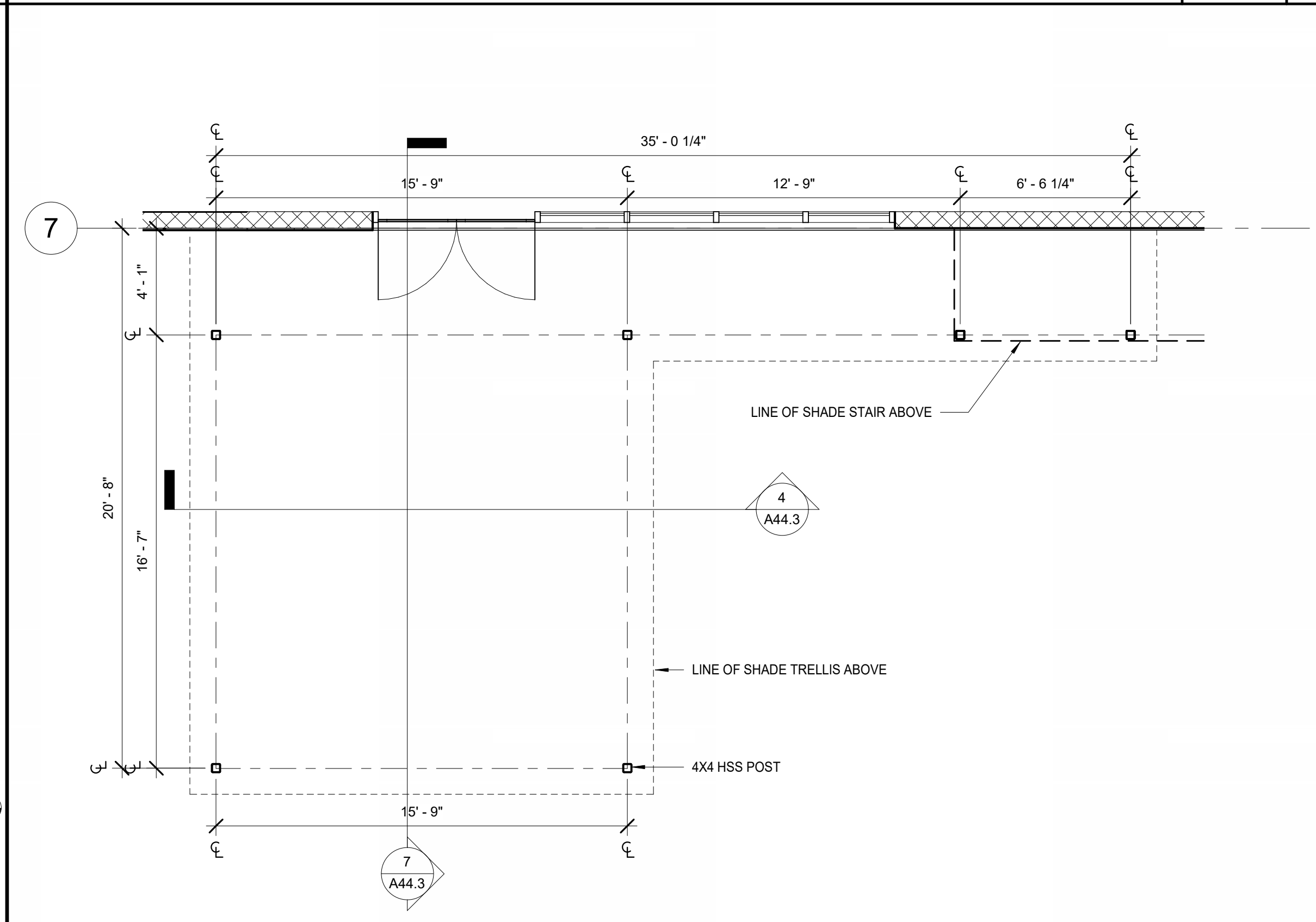
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SOUTH TRELLIS SECTION 1

1/2" = 1'-0"

4



ENLARGED SOUTH TRELLIS FIRST FLOOR PLAN

1/4" = 1'-0"

1



**CITY OF GARDENA**  
INCORPORATED 1950

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**Robert M. Anderson**  
REGISTERED ARCHITECT  
No. C-18801  
JAN. 31, 2025  
STATE OF CALIFORNIA

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
1	90% CD SUBMITTAL	12/15/2022	
2	ADDENDUM #2	08/16/2023	
3	ADDENDUM #3	06/26/2023	

DESIGNED BY: AP/HC 05/25/2022

APPROVED BY: [Signature]

DRAWN BY: HC 04/29/23

CHECKED BY: DB 04/29/23

B.M.: THE CITY OF GARDENA BENCHMARK NO. SD-15  
ELEV. = 43.596'

APPROVED BY: [Signature]  
DIRECTOR OF PUBLIC WORKS

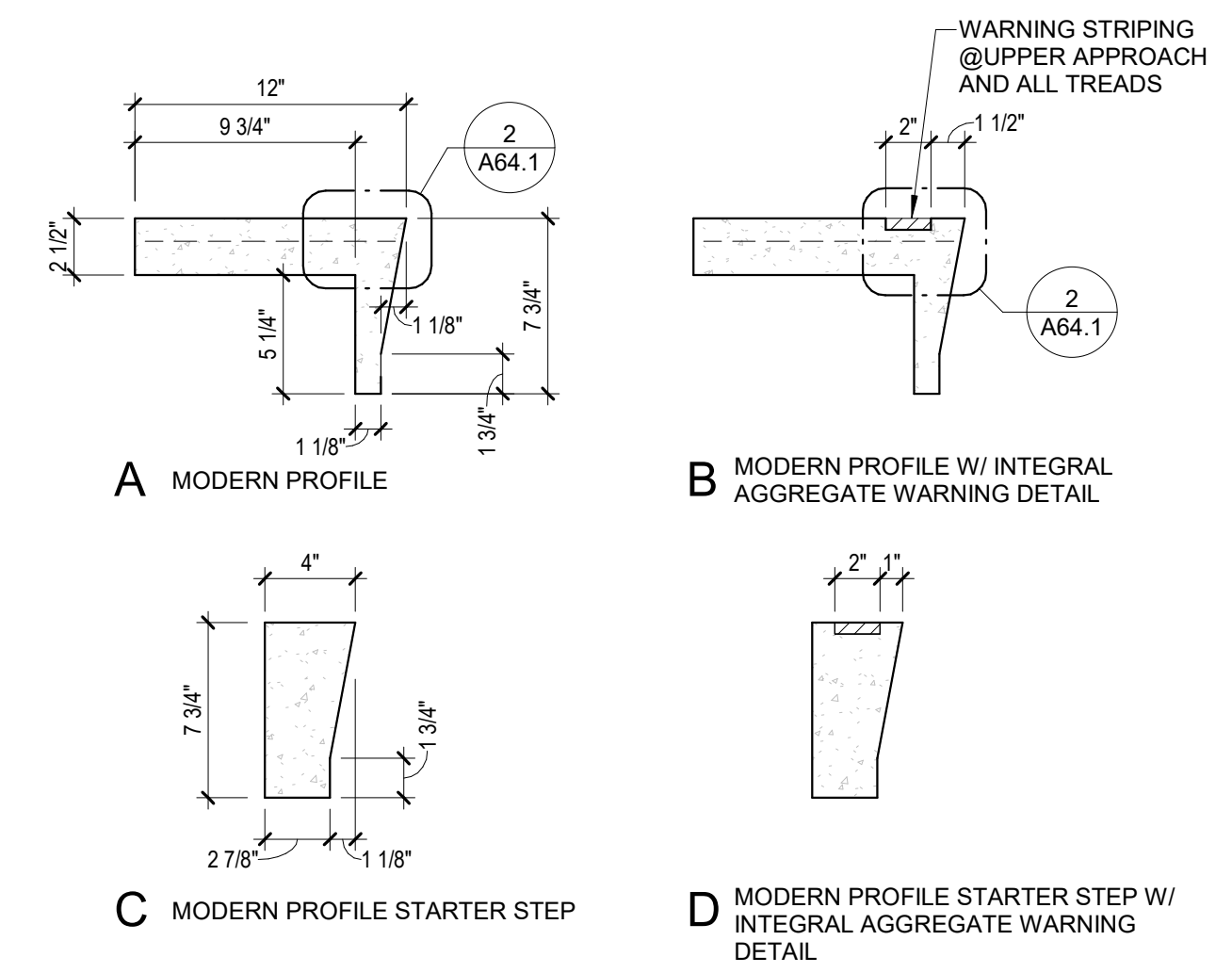
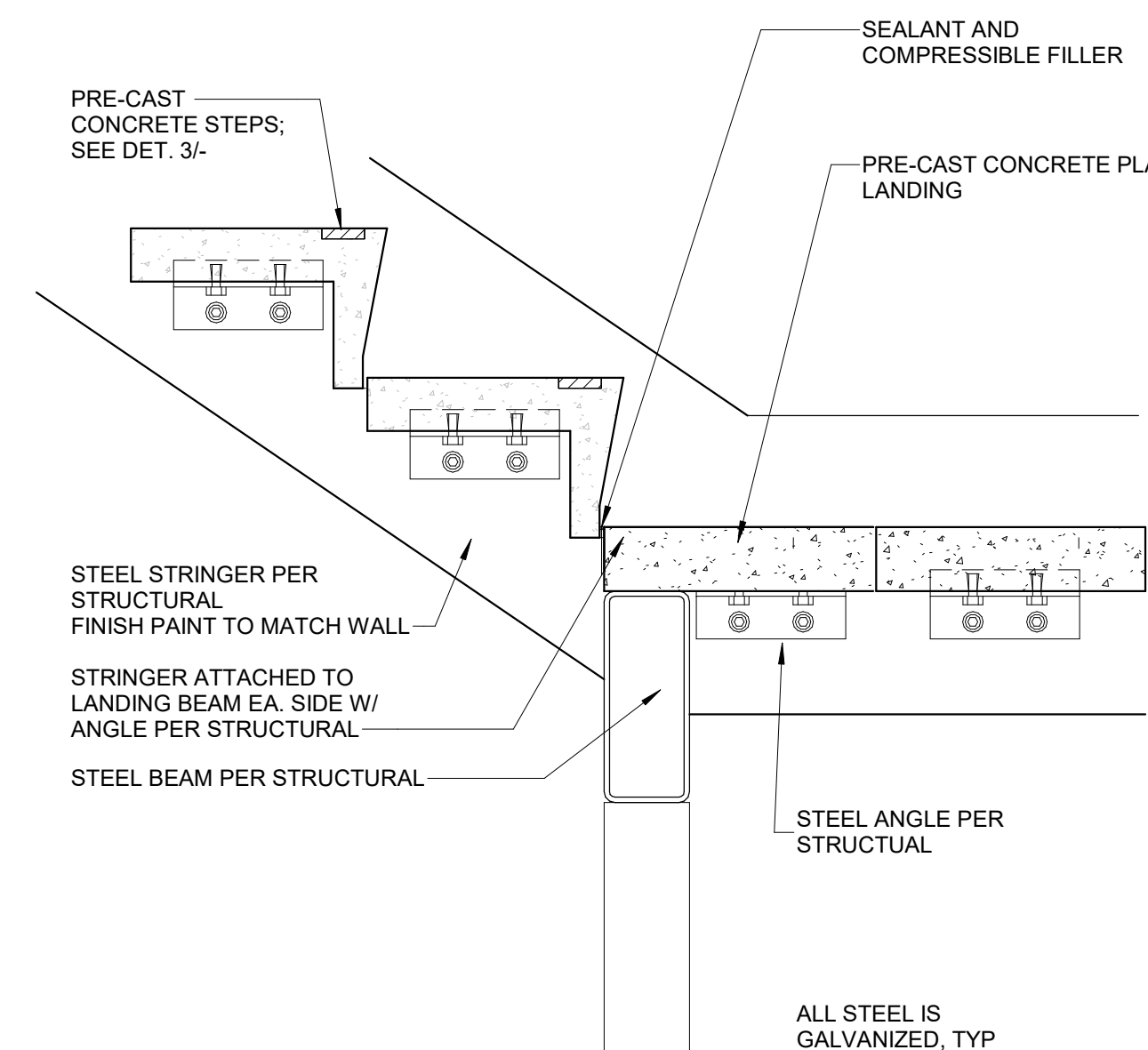
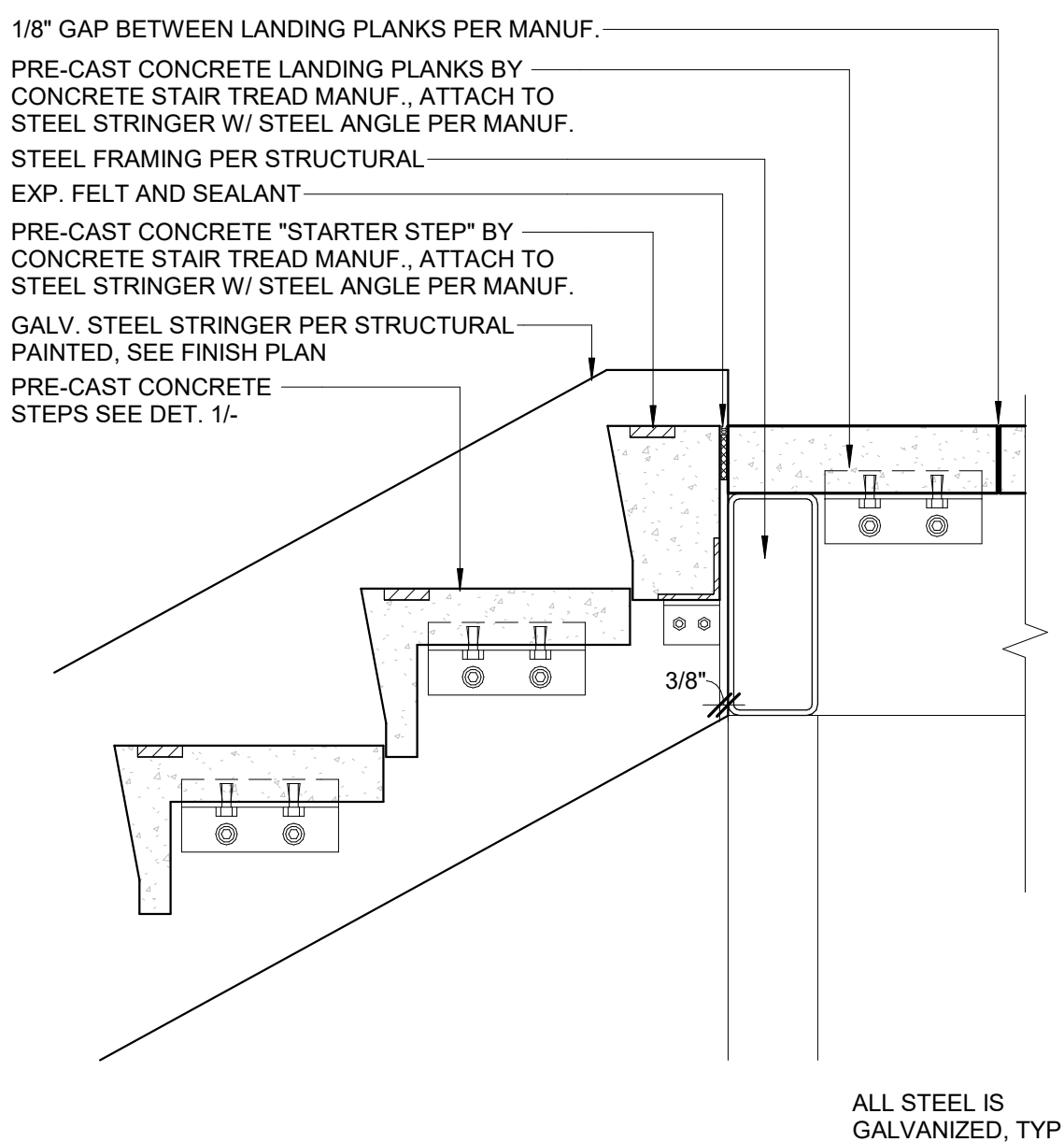
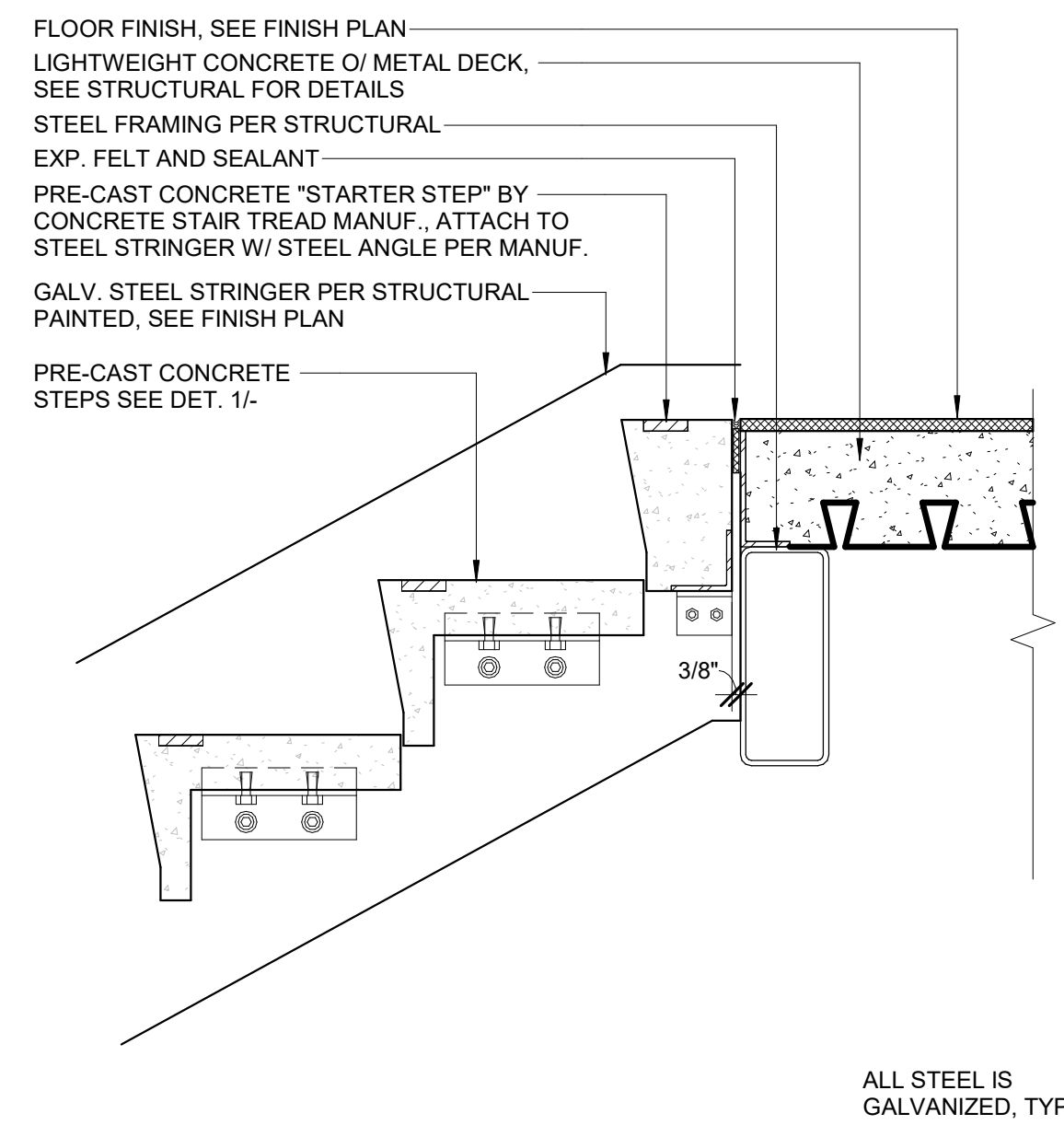
SHT. 66 OF 176

DWG. NO. 5-2606

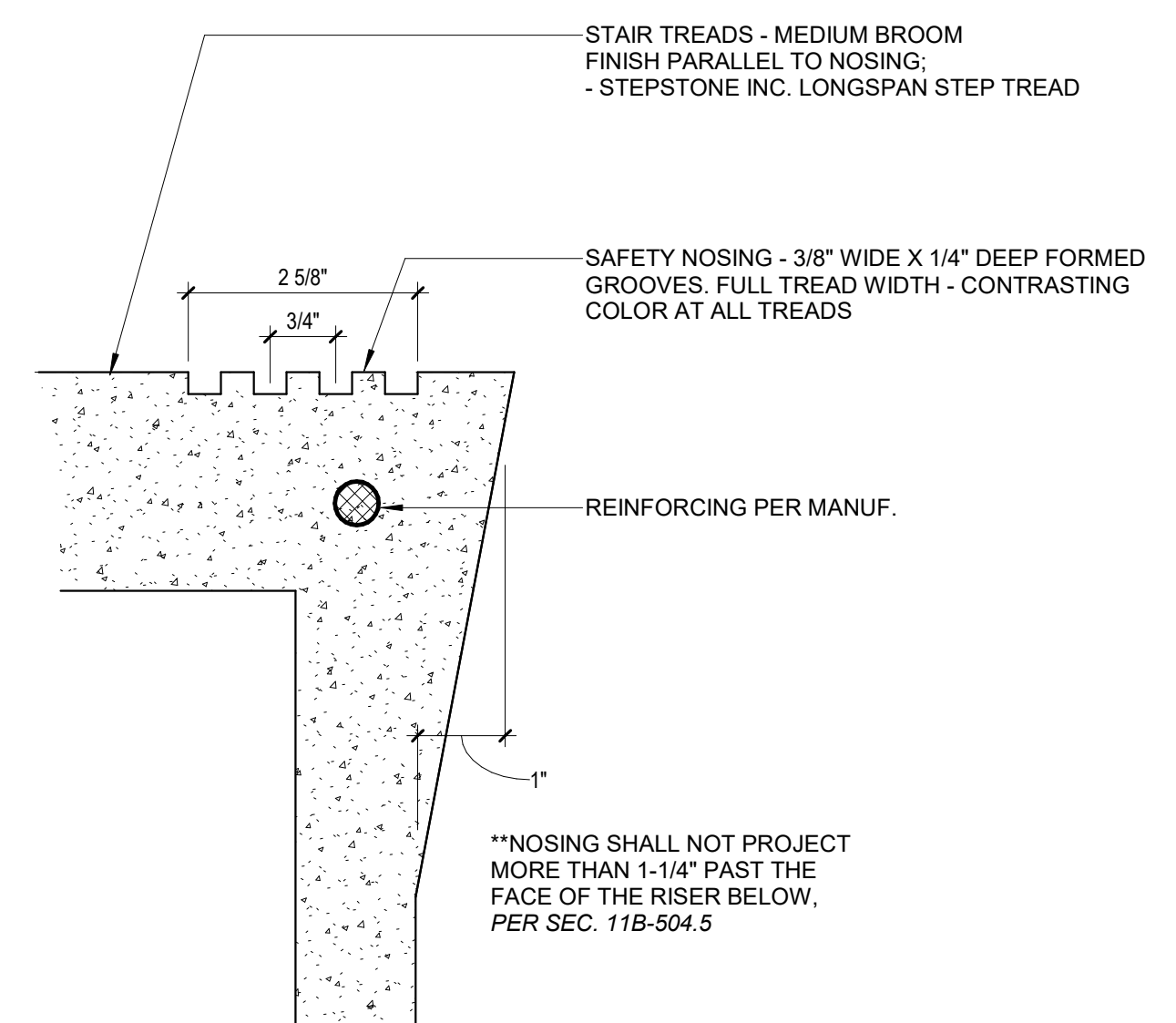
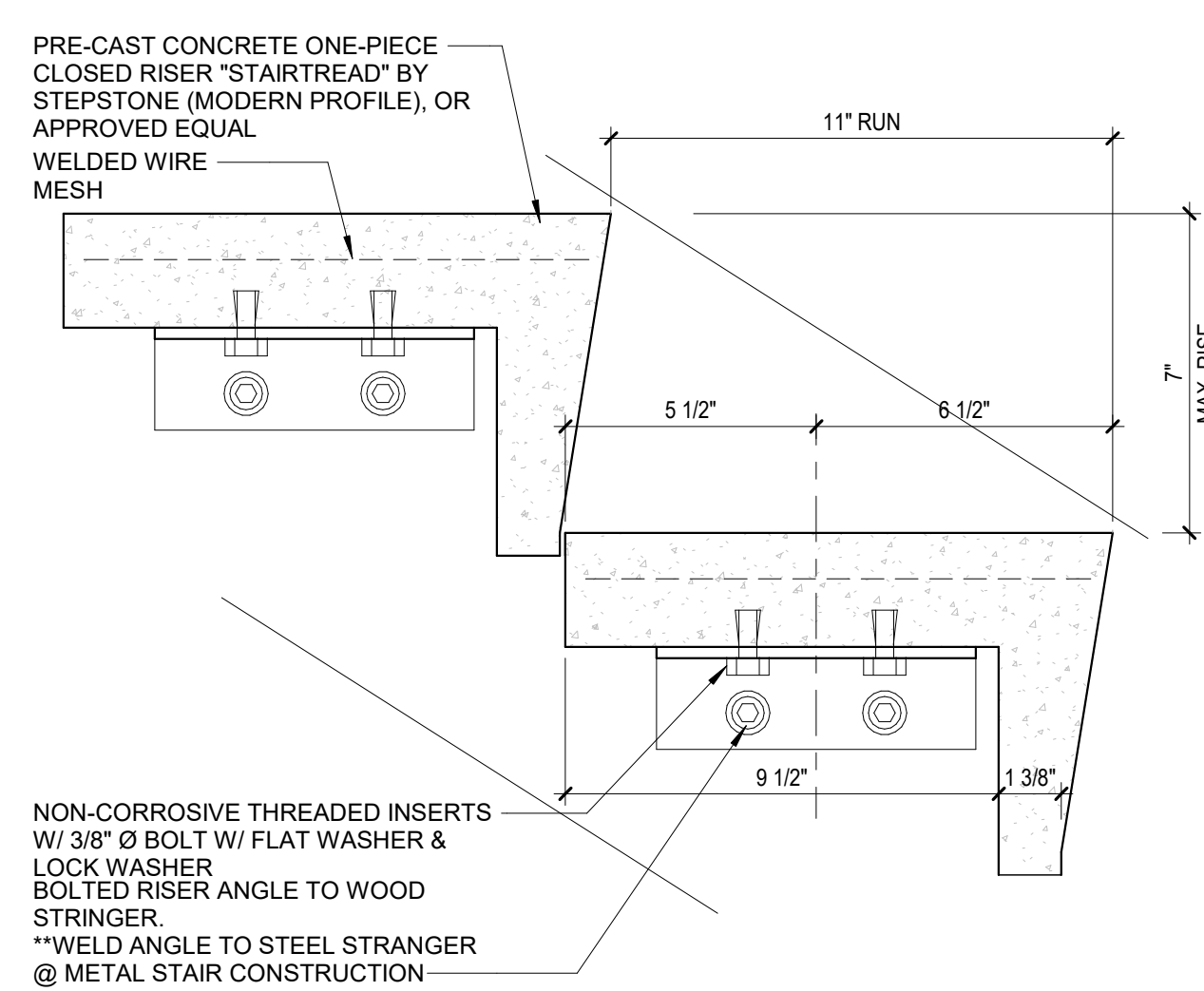
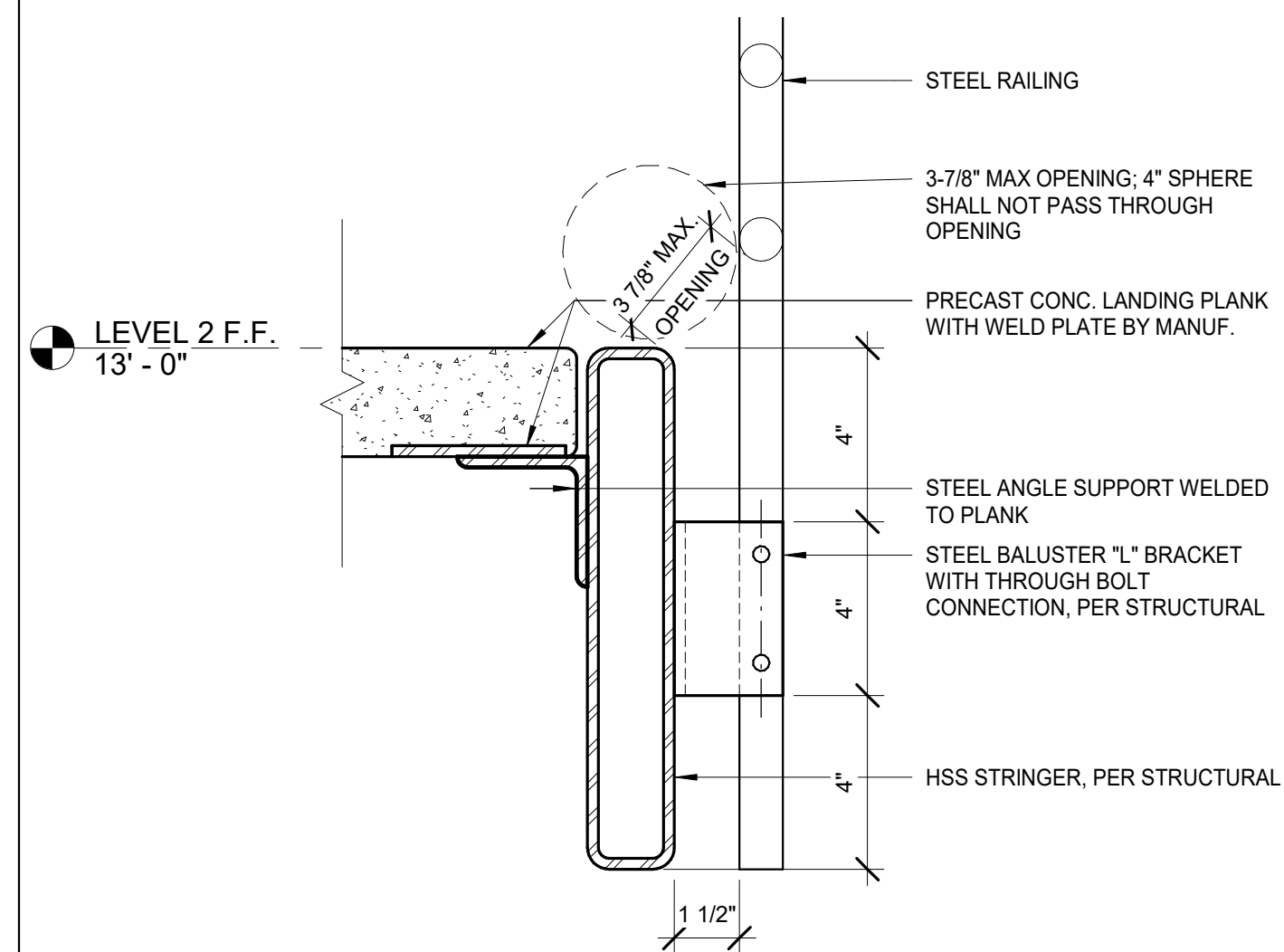
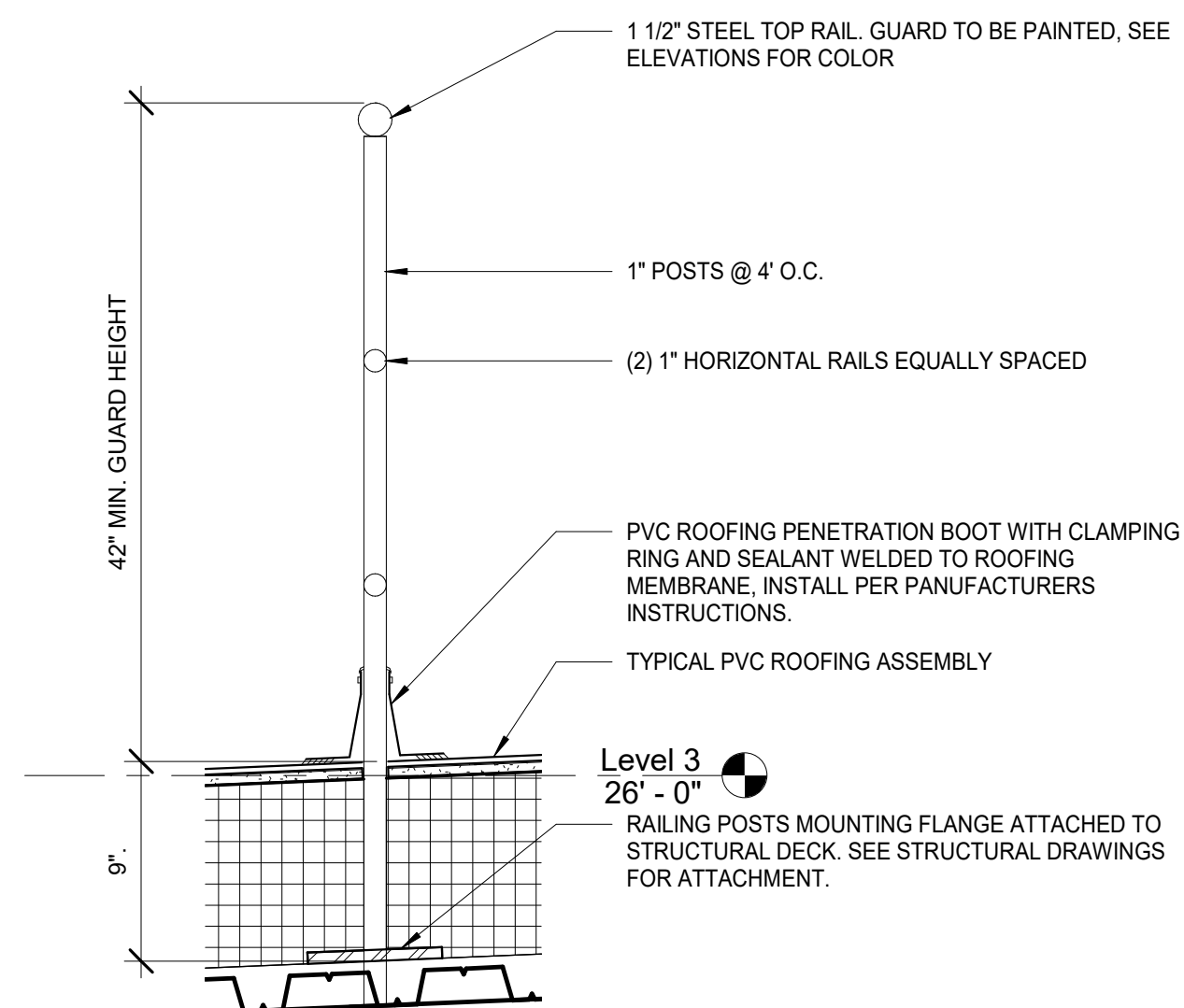
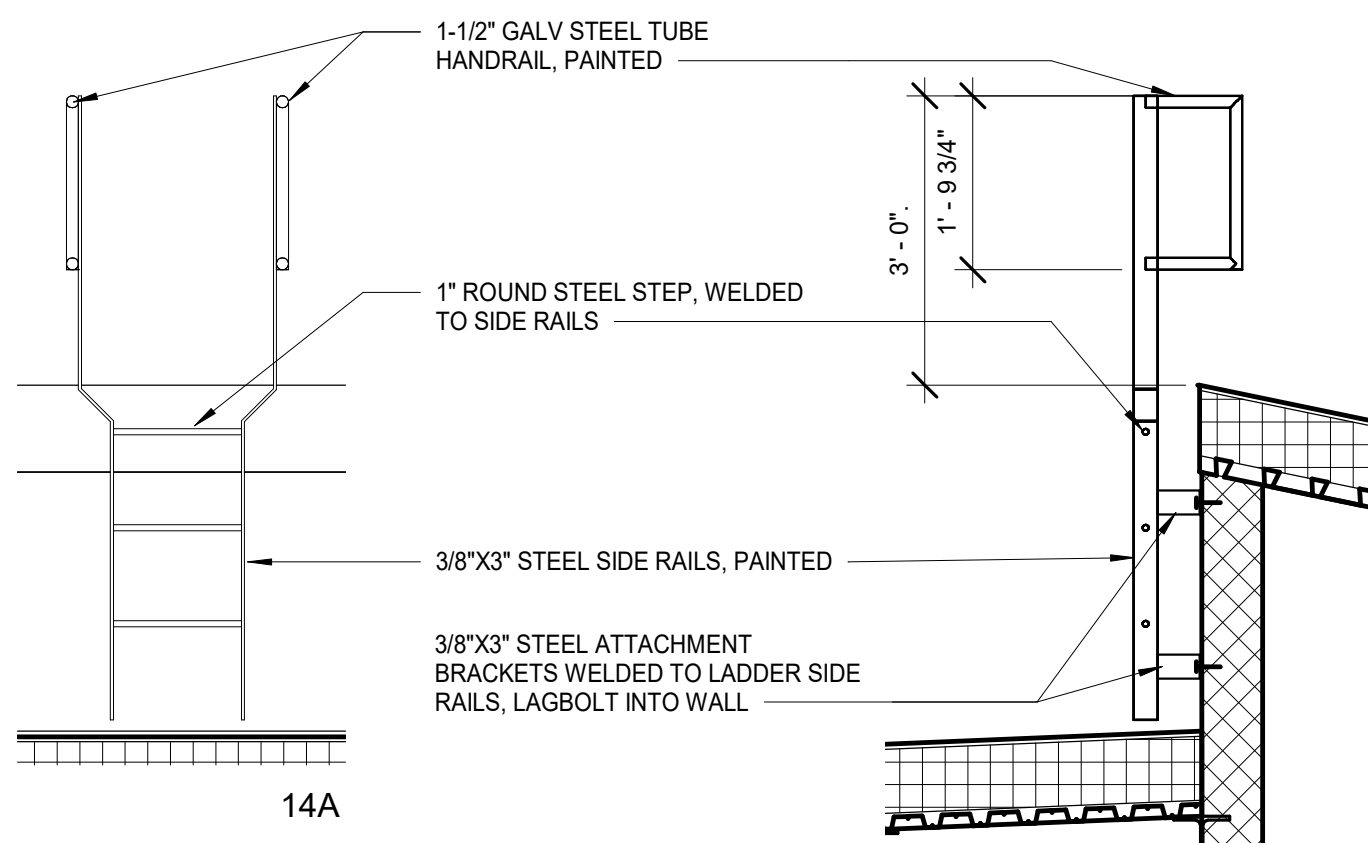




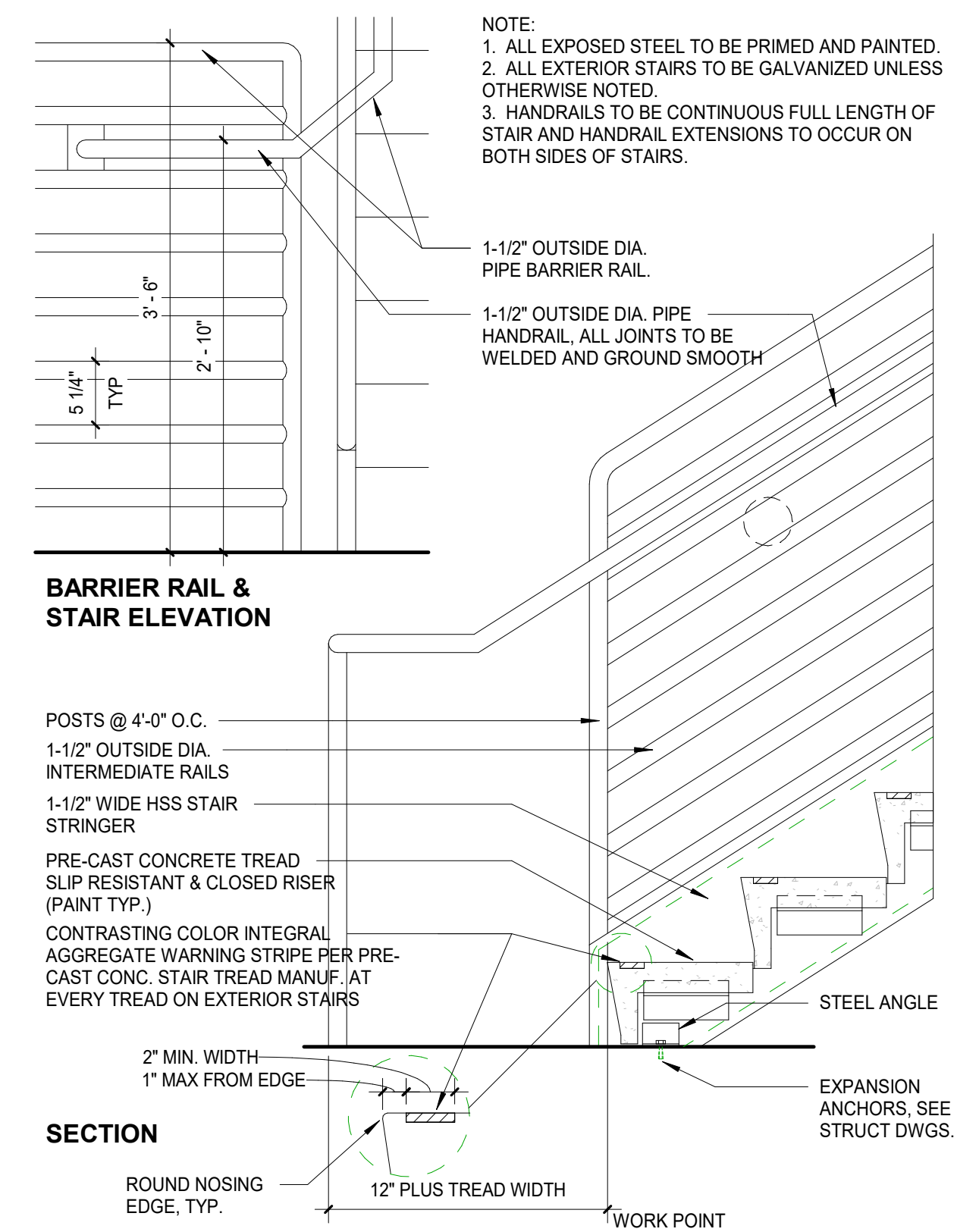
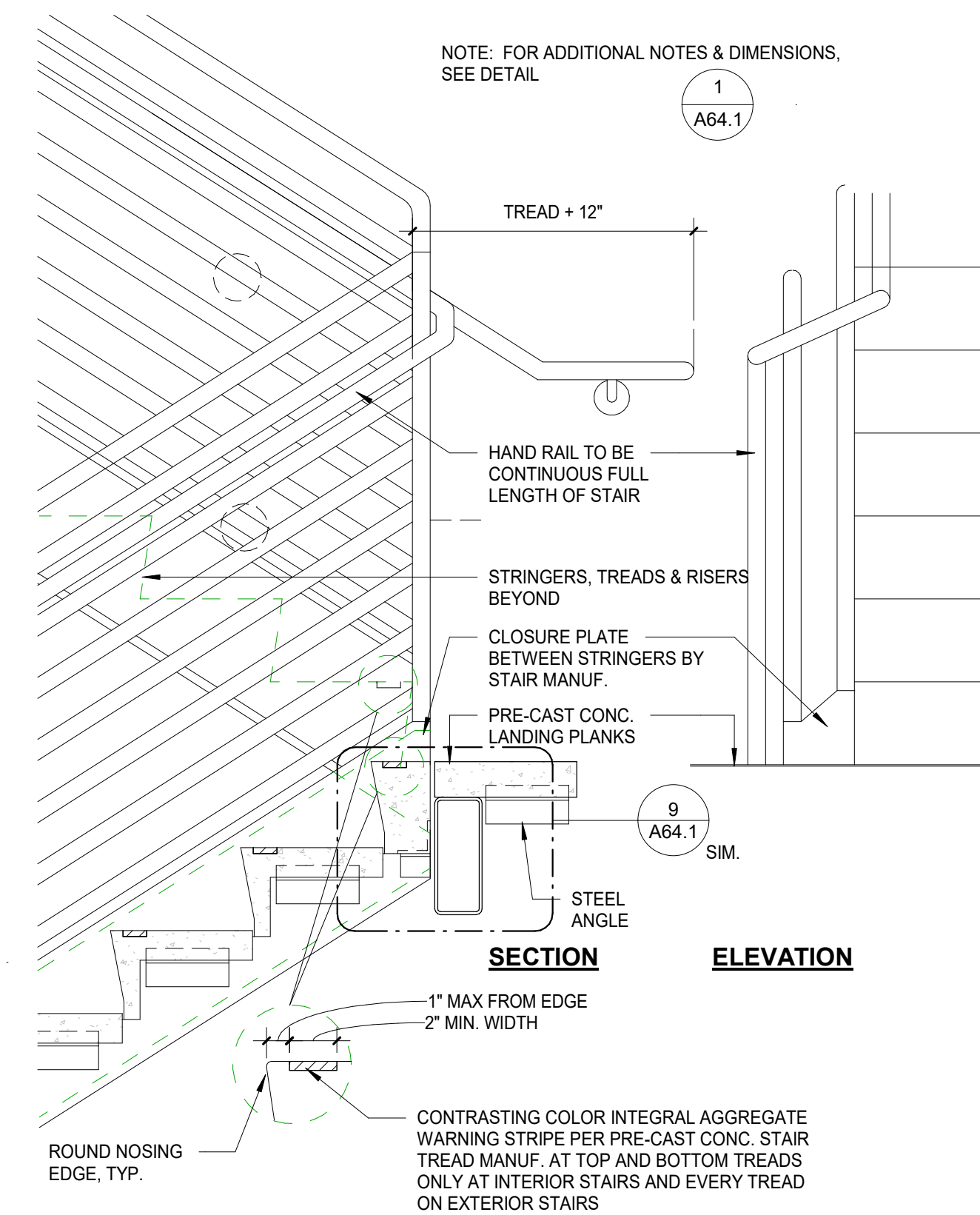
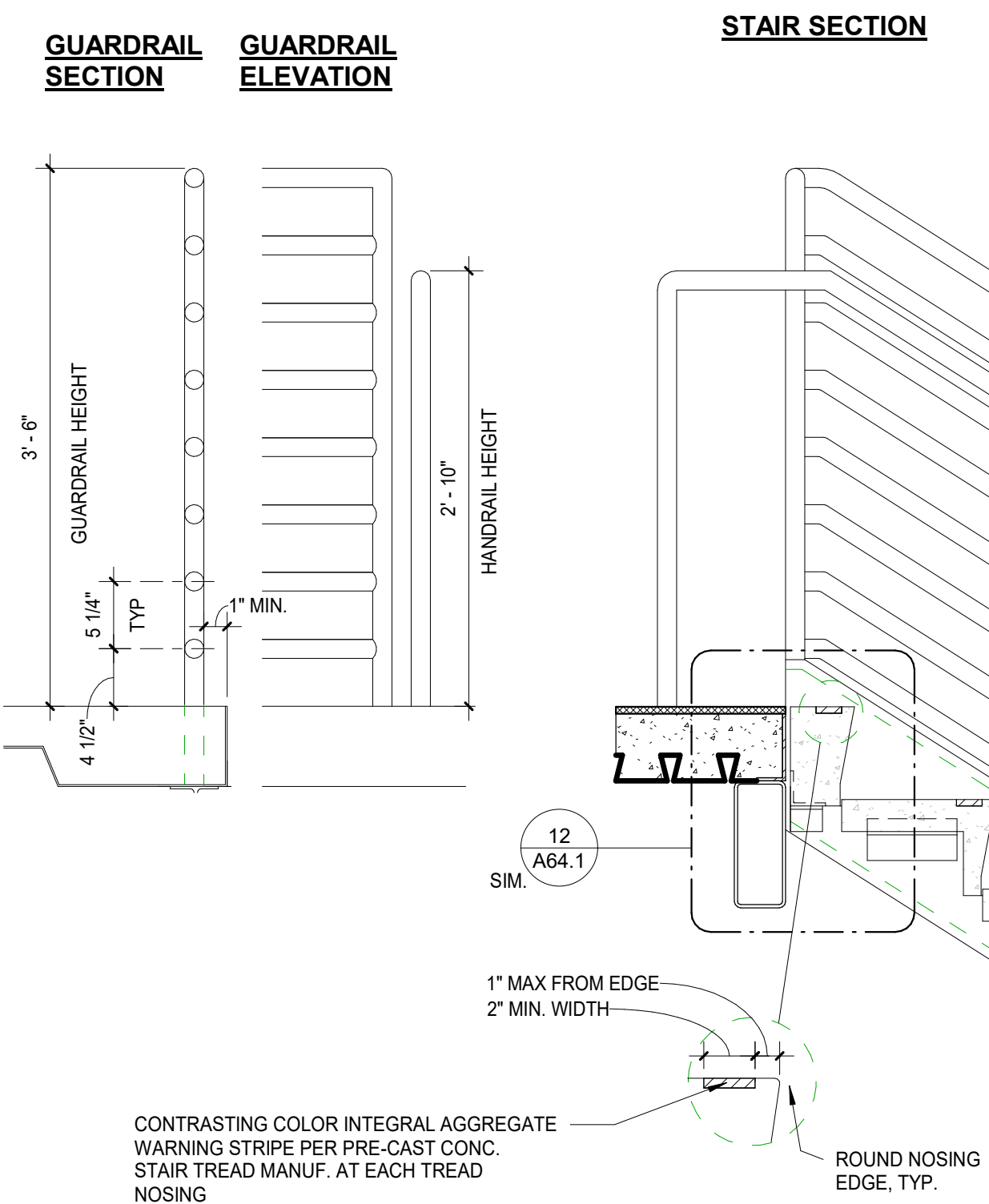
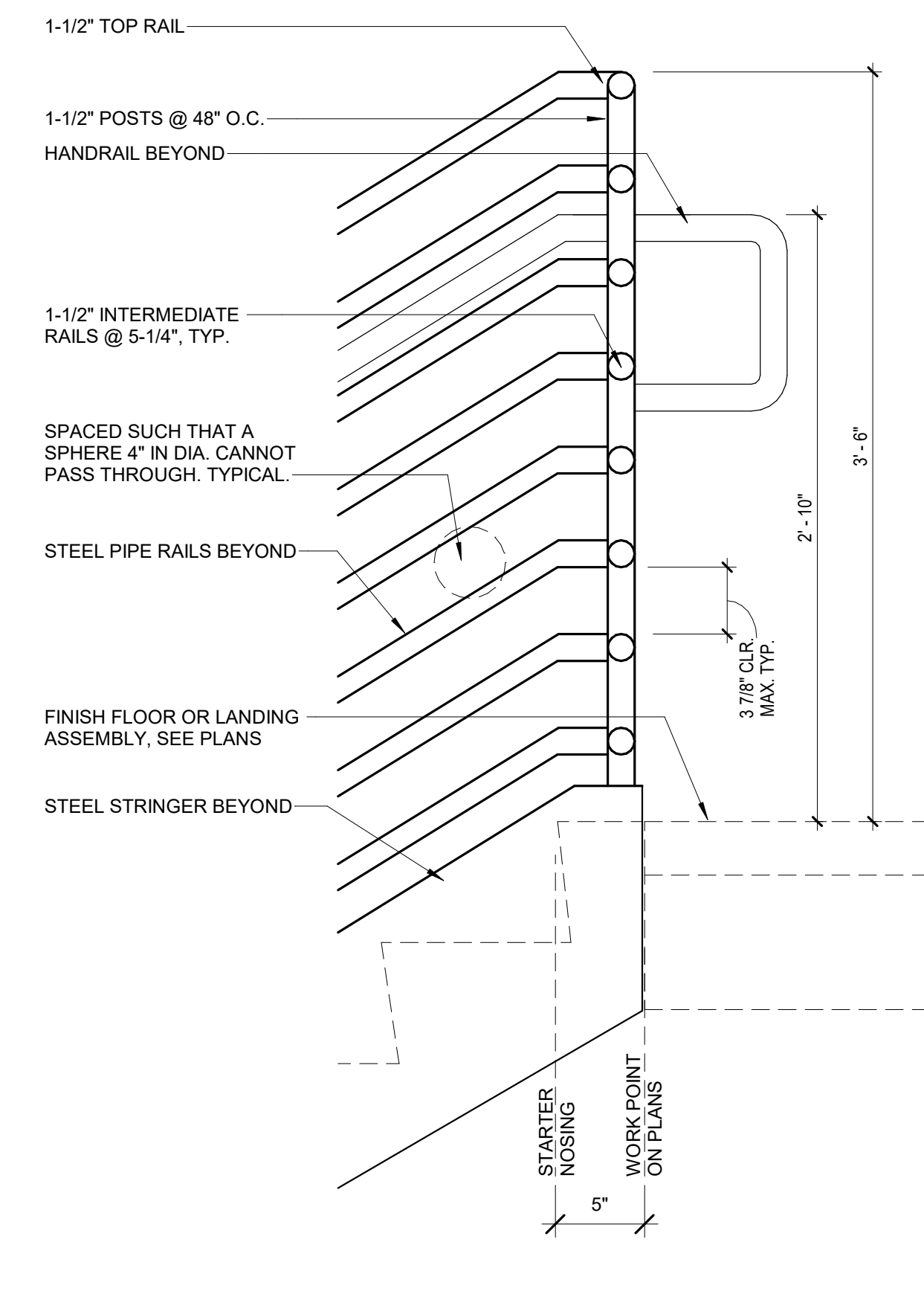
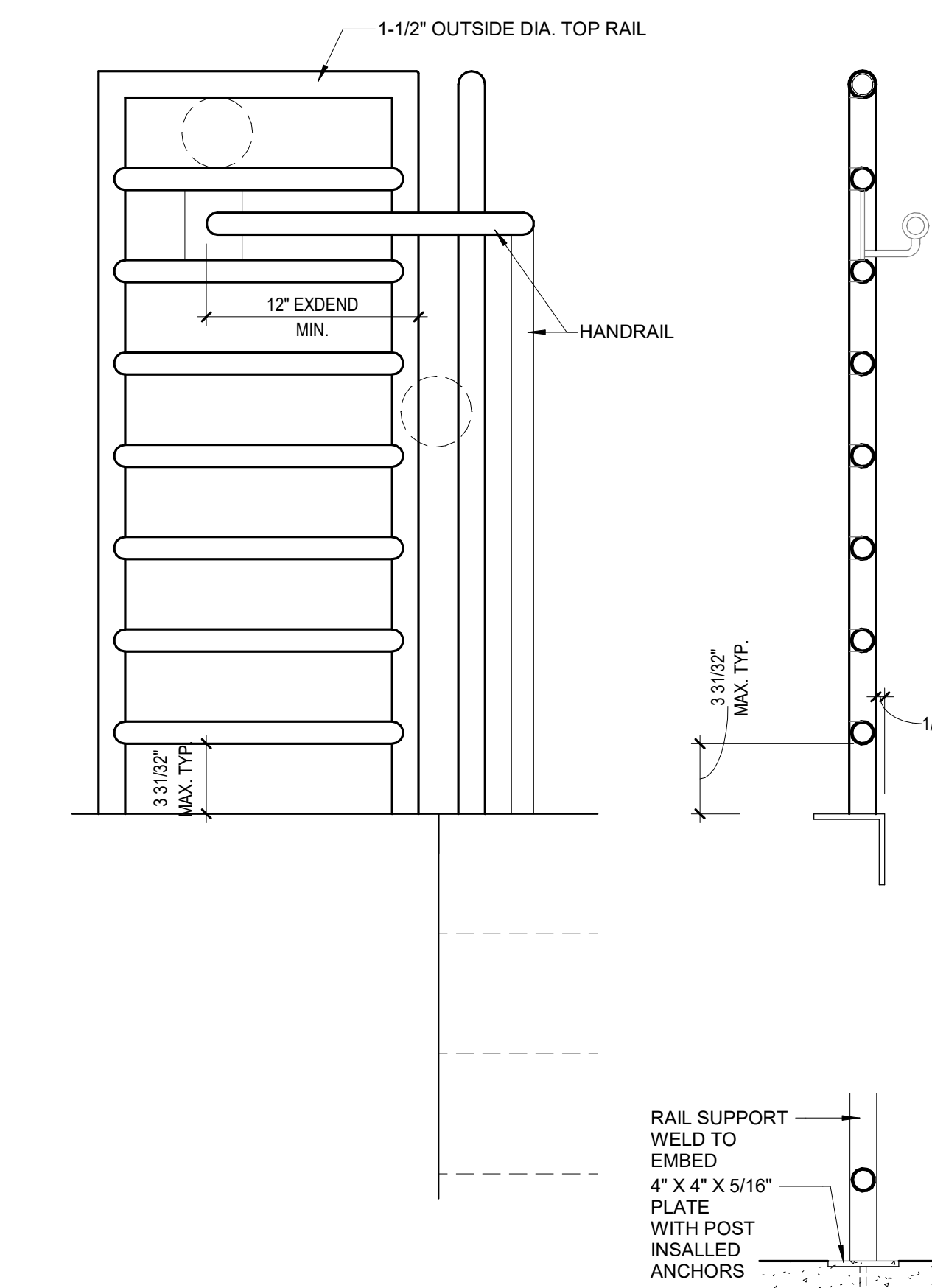




			<b>INTERIOR STAIR UP @LANDING</b>	$\frac{1}{8} \times \frac{1}{2}" = " - 0"$	<b>12</b>		<b>EXTERIOR STAIR UP @LANDING</b>	$\frac{1}{8} \times \frac{1}{2}" = " - 0"$	<b>9</b>		<b>STEEL STRINGER STAIR @MID-LANDING</b>	$\frac{1}{8} \times \frac{1}{2}" = " - 0"$	<b>6</b>		<b>TREAD DETAILS - MODERN</b>	$\frac{1}{8} \times \frac{1}{2}" = " - 0"$	<b>3</b>
--	--	--	-----------------------------------	--	-----------	--	-----------------------------------	--	----------	--	--	--	----------	--	-------------------------------	--	----------



	<b>EXT. ROOF ACCESS LADDER</b>	1/2" = 1'-0"	<b>14</b>		<b>ROOF MOUNTED GUARD</b>	1 1/2" = 1'-0"	<b>11</b>		<b>EXTERIOR STAIR RAILING ATTACHMENT</b>	3" = 1'-0"	<b>8</b>		<b>ONE-PIECE CLOSED TREAD/RISER</b>	3" = 1'-0"	<b>5</b>		<b>CONCRETE STAIR NOSING</b>	6" = 1'-0"	<b>2</b>
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[illegible]



FOUNDATION NOTES

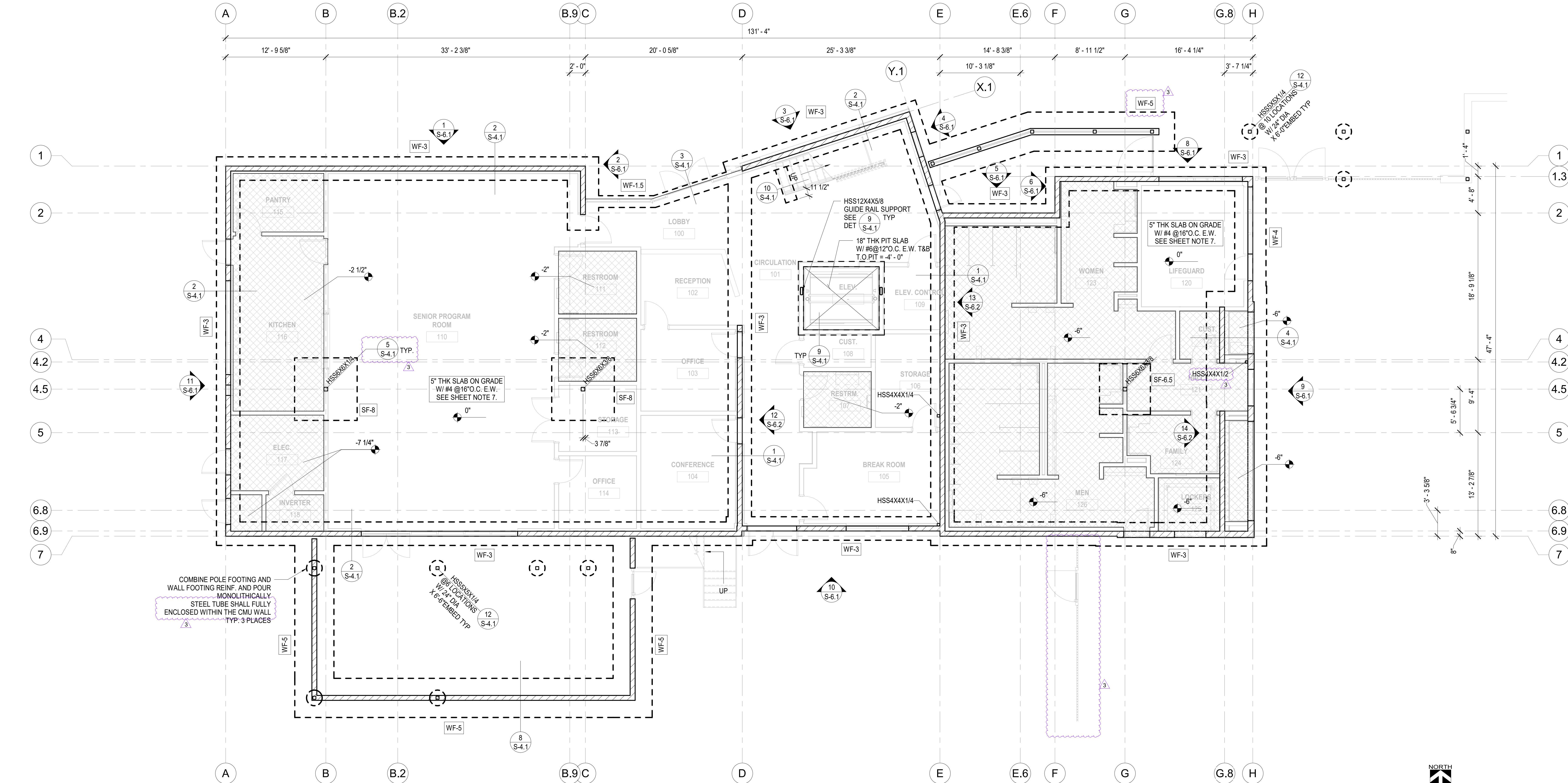
- FOR GENERAL NOTES, SEE S-0.# SERIES.
- FOR TYPICAL DETAILS, SEE S-1.# SERIES.
- NONE.
- SF-# INDICATES SPREAD FOOTING. SEE SPREAD FOOTING SCHEDULE FOR ADDITIONAL INFO.

MARK	DIMENSIONS			REINFORCEMENT	
	LENGTH	WIDTH	DEPTH	LONG	SHORT
SF-4	4' - 0"	4' - 0"	24"	(4)#5 T&B	(4)#5 T&B
SF-6.5	6' - 6"	6' - 6"	24"	(6)#7 T&B	(6)#7 T&B
SF-8	8' - 0"	8' - 0"	24"	(8)#7 T&B	(8)#7 T&B

- DRAWING DATUM = 0'-0". REF. ELEV. +/- XXX.XX @ GROUND FLOOR FINISH FLOOR (SEE CIVIL & ARCH FOR ACTUAL ELEVATION)
- FOR WALL FOOTING THRU / TERMINATION DETAIL SEE [ 11 / S-1.1 ]
- TYPICAL SLAB ON GRADE UNDERLAYMENT:  
SLAB SHALL BE UNDERLAIN BY 4 INCHES OF SAND LAYER  
OVER 15 MIL MOISTURE BARRIER  
CONTRACTOR TO PROTECT VAPOR BARRIER FROM PUNCTURE.
- FOR SLAB SAWCUT AND CONTROL JOINT, SEE DETAIL [ 16 / S-1.1 ]  
& FOR TYPICAL SLAB EDGE, SEE [ 9 / S-1.1 ]
- UNDERGROUND UTILITY NOTE:  
CONTRACTOR SHALL COORDINATE ALL NEW AND EXISTING UTILITIES PRIOR TO ANY FOUNDATION WORK PER [ 9 / S-1.2 ] & [ 5 / S-1.2 ]  
STEP FOOTINGS AS REQUIRED PER DETAIL [ 8 / S-1.2 ]  
@ SLRS FRAMES, STEPS NOT NOTED HEREIN REQUIRE SEOR & DSA APPROVAL.  
WHERE ADDITIONAL STEPS ARE REQUIRED, NOTIFY SEOR.

- INDICATES STEP IN FOOTING PER DETAIL [ 8 / S-1.2 ]  
@ SLRS FRAMES, STEPS NOT NOTED HEREIN  
REQUIRE SEOR & DSA APPROVAL.
- INDICATES DEPRESSED SLAB, SEE DETAIL [ 9 / S-1.1 ]  
REFER TO ARCHTL DRAWINGS FOR  
ADDITIONAL INFORMATION.
- SHOWS ELEVATION OF FRAME ELEVATION
- FOR FOUNDATION CROSSINGS / OVERLAPS  
SEE DET. [ 2 / S-1.3 ] & [ 3 / S-1.3 ] & [ 5 / S-1.3 ]  
13.1 FOR STEEL COLUMN BASE PLATES, SEE DET. [ 2 / S-1.10 ]

MARK	DIMENSIONS		REINFORCEMENT	#4 TIES @ 12" O.C., U.N.O.
	WIDTH	DEPTH		
WF-1.5	1' - 6"	24"	(3)#5 T&B	ALT. CAP 
WF-2	2' - 0"	24"	(3)#5 T&B	
WF-2.5	2' - 6"	24"	(3)#5 T&B	
WF-3	3' - 0"	24"	(4)#5 T&B	
WF-4	4' - 0"	24"	(5)#5 T&B	
WF-5	5' - 0"	24"	(5)#5 T&B	
WF-10	10' - 0"	24"	(10)#5 T&B	



1 FOUNDATION PLAN  
S-2.1 SCALE: 3/16" = 1'-0"  
REF DET: 1 / S-1.1



PREPARED BY:  
**MC** ENGINEERS, INC.  
CIVIL • STRUCTURAL  
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Tel. 949.679.0870  
Fax. 949.679.9370  
Project No.: 1699

REVISIONS		
NO.	DESCRIPTION	DATE
1	WPCD SUBMITTAL	12/15/2022
2	100% CD SUBMITTAL	06/01/2023
3	ADDENDUM #3	08/25/2023

**CITY OF GARDENA**  
DEPARTMENT OF PUBLIC WORKS - ENGINEERING  
**FOUNDATION PLAN**  
**COMMUNITY AQUATICS & SENIOR CENTER**  
S-2.1

DESIGNED BY: AG DATE: 05/01/23  
DRAWN BY: AN DATE: 04/29/23  
CHECKED BY: YN DATE: 04/29/23

APPROVED BY: [Signature]  
DIRECTOR OF PUBLIC WORKS

SHT. 100 OF 176 DWG. NO. 5-2606



FLOOR FRAMING NOTES:

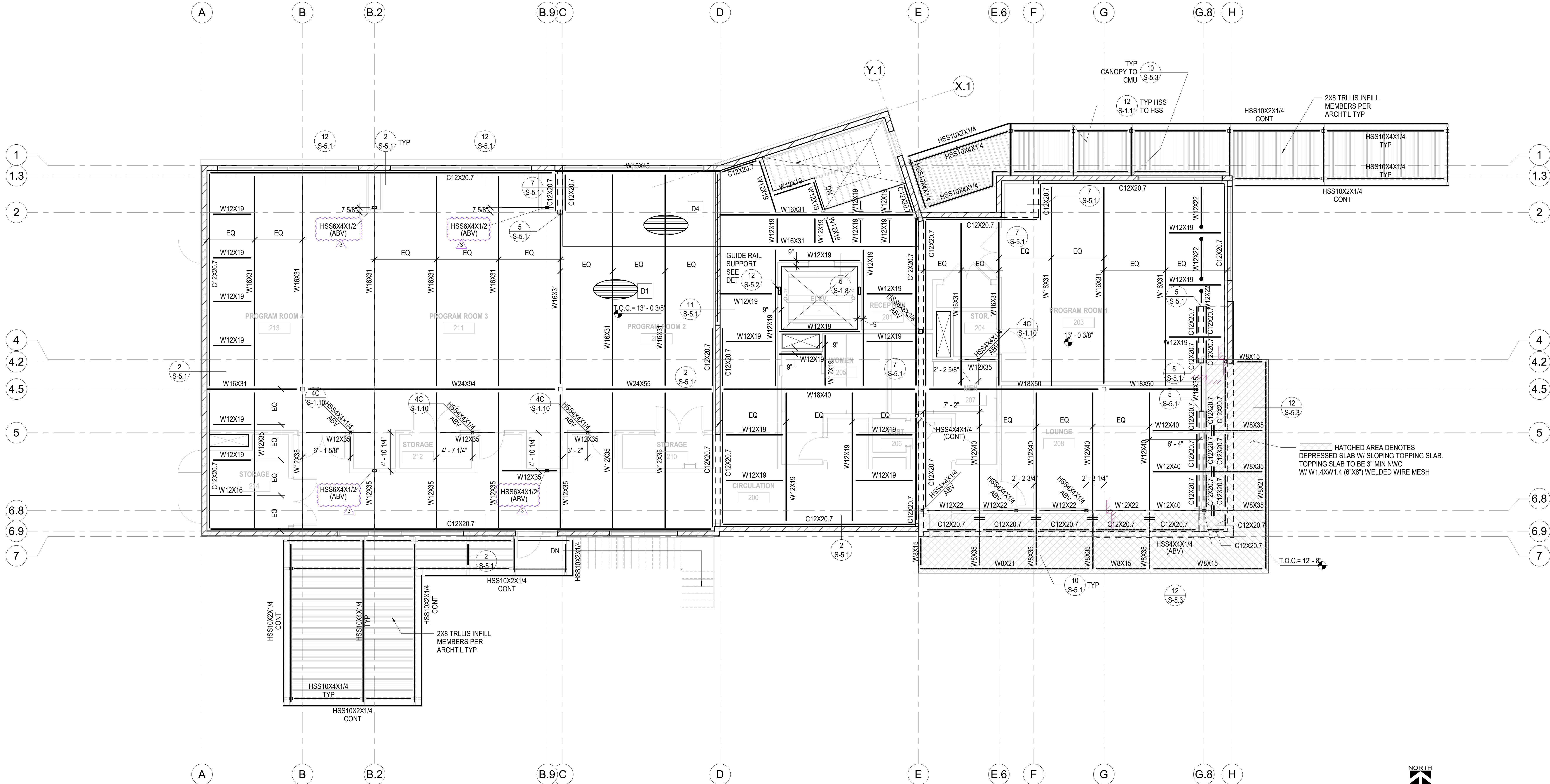
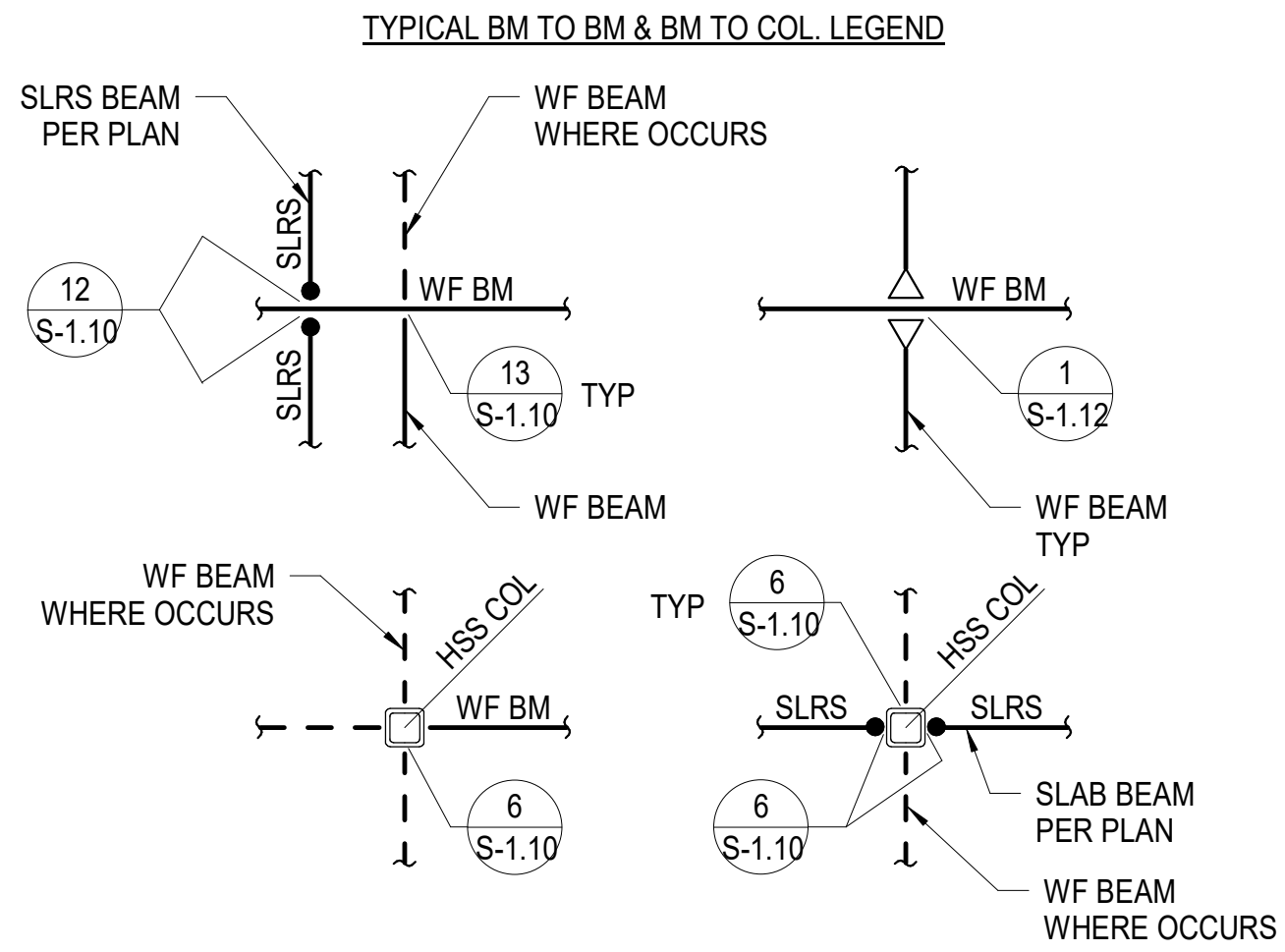
- FOR GENERAL NOTES, SEE S-00# SERIES.
- FOR TYPICAL DETAILS, SEE S-1# SERIES, SEE REFERENCES BELOW.
- NOT USED.
- DECK PER DECK SCHEDULE ON THIS SHEET. SEE [ 2 / S-1.8 ] FOR ADDITIONAL INFORMATION.
- SEE PLAN FOR T.O.S. NOTE, COORDINATE T.O.S. NOTED WITH ARCHITECTURAL DRAWINGS
- FOR TYPICAL BEAM TO BEAM CONNECTIONS, SEE DETAIL LEGEND.
- CANTILEVER BEAM MOMENT CONNECTION SEE DETAIL [ 1 / S-1.12 ]
- COLUMNS : SEE FLOORS BELOW FOR SIZES NOT NOTED HERE IN.
- BEAM SPLICE. SEE DETAIL [ 15 / S-1.10 ] & [ 11 / S-1.11 ]
- INDICATES BOLT CONNECTION AT SLRS SEE DETAIL [ 12 / S-1.10 ] BEAMS WITH THIS SYMBOL ARE PART OF THE SLRS.

INDICATES (2) ROWS OF A490SC, ●  
INDICATES (1) ROW OF A490SC, ●

- ALL STEEL BEAMS SHALL HAVE WELDED STUDS. SEE DETAIL [ 8 / S-1.1 ]
- AT ALL SLRS BEAMS PROVIDE BRACING @ 8' - 0" O.C. MAX PER DETAIL [ 4 / S-1.12 ]
- DENOTES FLOOR/ROOF PENETRATION. FOR TRIM REINF SEE DETAIL [ 8 / S-1.8 ] SEE ARCHT'L / MEP DRAWINGS FOR ACTUAL LOCATION AND ADDITION INFO AND ADDITIONAL PENETRATIONS NOT SHOWN IN THESE DRAWINGS
- INDICATES DEPRESSED SLAB. SEE DETAIL [ 9 / S-1.1 ] REFER TO ARCHT'L DRAWINGS FOR ADDITIONAL INFORMATION.
- \* NEXT TO BEAM SIZE INDICATES LOWERED BEAM AROUND DEPRESSED AREA SEE [ 7 / S-1.11 ] FOR BEAM WITH WT SECTION. NOTE: DOUBLE LINE DENOTES EXTENT OF WT.
- DENOTES SLOPING METAL DECK (SLOPE PER ARCHT'L) W/ 2" LWC TOPPING SLAB W/ 6X6X1.4X1.4 WELDED WIRE MESH OVER WATERPROOFING OVER SCREEDING LAYER. FOR TYP SECTION SEE ARCHT'L DETAIL [ X / A-X ]
- ALL LEDGERS (C12x) ARE PART OF THE SLRS.

DECK SCHEDULE

DECK MARK	TYPE	GAGE	I (IN4/FT)	S (TOP +) (IN3/FT)	S (BOT -) (IN3/FT)	TOTAL DEPTH (IN)	CONC FILL TYPE	REINF.	WELDED STUDS	SIDE-SEAM ATTACHMENT	ATTACHMENT PATTERN
D1	VERCO W2 IAPMO 2018	18	0.564	0.471	0.481	5"	LWC	#3 @ 12" O/C E.W.	3/4 DIA. X 4 1/2" FN HT @ 12" O/C	TOP SEAM WELD @ 24" O/C	36/4
D2	HSB 36 IAPMO 2018	18	0.306	0.314	0.331	1 1/2"	BARE	-	-	TOP SEAM WELD @ 6" O/C	36/4
D3	VERCO HSB-36 IAPMO 2018	18	0.302	0.314	0.401	1.5"	BARE DECK	#3 @ 12" O/C E.W.	3/4 DIA. X 4 1/2" FN HT @ 12" O/C	TOP SEAM WELD @ 24" O/C	36/4
D4	VERCO 2.0D IAPMO 2018	18	0.792	0.587	0.576	5"	LWC	#3 @ 12" O/C E.W.	3/4 DIA. X 4 1/2" FN HT @ 12" O/C	TOP SEAM WELD @ 24" O/C	24.5/8



1 2ND FLOOR FRAMING PLAN  
S-3.1 SCALE: 3/16" = 1'-0"  
REF DET: 1/1 S-6.1



PREPARED BY:

**VCA ENGINEERS, INC.**  
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Tel. 949.679.0870  
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Project No.: I699

REVISIONS		
NO.	DESCRIPTION	DATE
1	WPCD SUBMITTAL	12/15/2022
2	100% CD SUBMITTAL	06/01/2023
3	ADDENDUM #3	08/25/2023

**CITY OF GARDENA**  
DEPARTMENT OF PUBLIC WORKS - ENGINEERING  
SECOND FLOOR FRAMING PLAN  
COMMUNITY AQUATICS & SENIOR CENTER  
S-3.1

DESIGNED BY: AG DATE: 05/01/23  
DRAWN BY: AN DATE: 04/29/23  
CHECKED BY: YN DATE: 04/29/23

APPROVED BY: [Signature] DATE: 04/29/23  
DIRECTOR OF PUBLIC WORKS

SHT. 102 OF 176 DWG. NO. 5-2606