



**REQUIRED  
SPECIAL INSPECTIONS**

IN ADDITION TO THE REGULAR INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE, THE FOLLOWING ITEMS ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705

ITEM	SECTION
STRUCTURAL STEEL	IBC 1705.2 / AISC 360 SECTION N5
FIELD WELDING	IBC 1705.5
STRUCTURAL CONCRETE	IBC 1705.3 / ACI 318 17.8, 26.13
ANCHOR BOLTS, POST INSTALLED ANCHORS IN CONC.	ACI 318 17.8
SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION	IBC 1705.6 / PER GEOTECH REQUIREMENTS

- THE ARCHITECT IS THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPIRC) FOR THIS PROJECT. SUBMIT ALL INSPECTION REPORTS DIRECTLY TO THE RDPIRC FOR REVIEW. INDIVIDUAL INSPECTION REPORTS SHALL INDICATE IF WORK WAS COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GC FOR CORRECTION. IF NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND RDPIRC PRIOR TO COMPLETION OF THAT PHASE OF WORK.
- IN ORDER TO COMPLY WITH THE BUILDING CODE REQUIREMENTS, THE SPECIAL INSPECTORS AND TESTING TECHNICIANS MAY NOT BE EMPLOYED BY THE GENERAL CONTRACTOR (GC), SUBCONTRACTORS OR MATERIAL SUPPLIERS. IN THE CASE OF AN OWNER / CONTRACTOR, THE BUILDING OFFICIAL SHALL BE CONSULTED.
- THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS IDENTIFIED IN SECTION 110 OF THE IBC. CONSTRUCTION SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED
- SPECIAL INSPECTIONS REPORT REQUIREMENTS 1704.2.4: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE APPLICANT AND THE BUILDING OFFICIAL.

- THE OWNER SHALL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE FOLLOWING:
  - SHALLOW FOUNDATIONS:
    - INSPECT SOILS BELOW FOOTINGS FOR ADEQUATE BEARING CAPACITY AND CONSISTENCY WITH GEOTECHNICAL REPORT.
    - INSPECT REMOVAL OF UNSUITABLE MATERIAL AND PREPARATION OF SUBGRADE PRIOR TO PLACEMENT OF CONTROLLED FILL.
  - CONTROLLED STRUCTURAL FILL:
    - PERFORM SIEVE TESTS (ASTM D422 & D1140) AND MODIFIED PROCTOR TESTS (ASTM D1557) ON EACH SOURCE OF FILL MATERIAL.
    - INSPECT PLACEMENT, LIFT THICKNESS & COMPACTION OF CONTROLLED FILL.
    - TEST DENSITY OF EACH LIFT OF FILL BY NUCLEAR METHODS (ASTM D2922).
    - VERIFY EXTENT AND SLOPE OF FILL PLACEMENT.
  - STRUCTURAL STEEL:
    - REVIEW SHOP FABRICATION AND QUALITY CONTROL PROCEDURES.
    - REVIEW CERTIFIED MILL TEST REPORTS & IDENTIFICATION MARKINGS ON HSS SHAPES.
    - INSPECT INSTALLATION AND TIGHTENING OF HIGH-STRENGTH BOLTS. VERIFY THAT SPLINES HAVE SEPARATED FROM TENSION CONTROL BOLTS. VERIFY PROPER TIGHTENING SEQUENCE.
    - INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATIONS AND CONNECTION DETAILS.
    - INSPECT WELDS IN ACCORDANCE WITH AWS D1.1.
  - POST-INSTALLED ANCHOR BOLTS:
    - PERIODIC OR CONTINUOUS INSPECTIONS PER THE REQUIREMENTS OF THE ICC-ES REPORT FOR THE PRODUCT USED.
- THE INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
  - THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
  - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL OF RECORD UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
  - THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
  - STRUCTURAL OBSERVATION BY THE SEOR IS NOT REQUIRED.
  - WHERE INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.

SPECIAL INSPECTIONS

ARCHITECT:



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CONSULTANTS:



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#25.013

CLIENT:



PROJECT:

**AXL ACADEMY**

450 S CHAMBERS RD  
AURORA, CO 80017

STAMP:



PROJECT NUMBER: 25.013  
INITIAL DATE: NOV. 2024  
DRAWN BY: SG

#	DESCRIPTION	DATE
1	FOR CONSTRUCTION	03-11-2025

GENERAL NOTES

**S002**

ARCHITECT:



CONSULTANTS:



CLIENT:

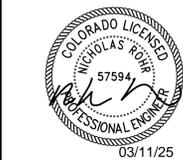


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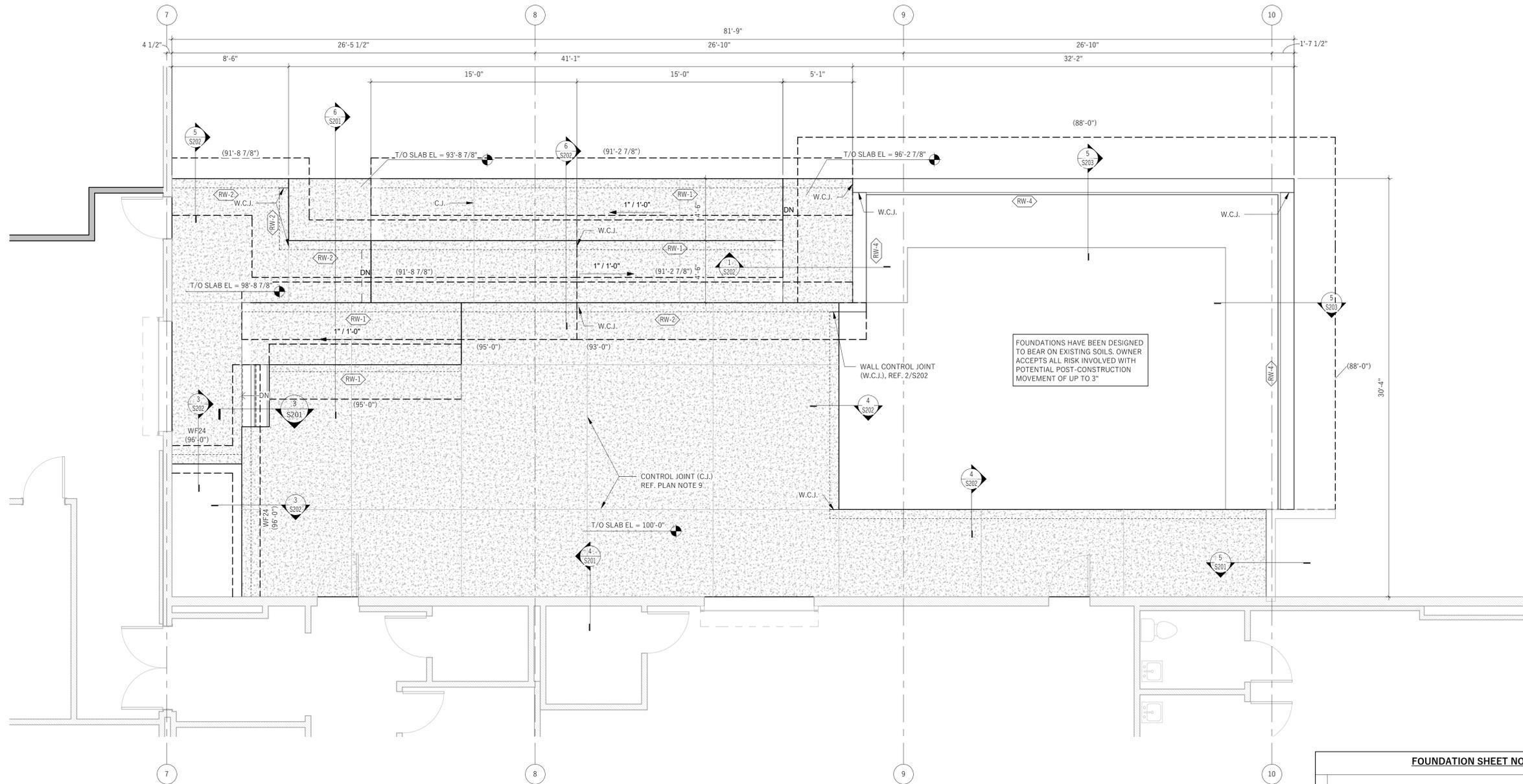


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ENLARGED FOUNDATION PLAN

S101



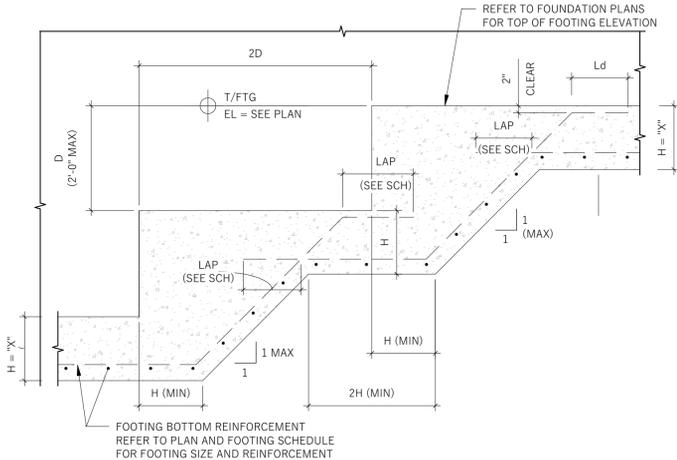
1 ENLARGED FOUNDATION PLAN  
S101 1/4" = 1'-0"

CONTINUOUS WALL FOOTING SCHEDULE

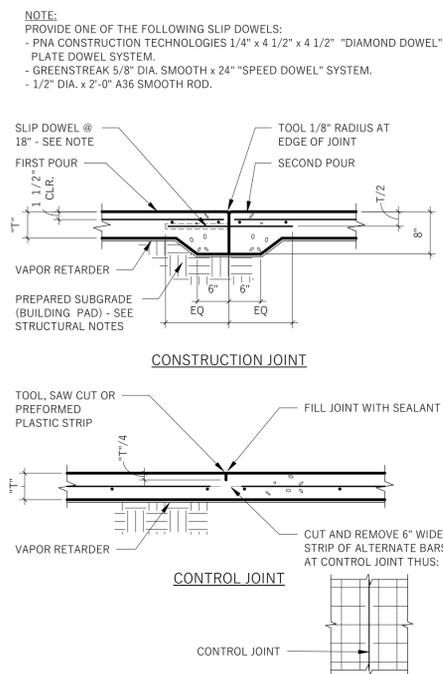
MARK	WIDTH	THICKNESS	REINFORCING
WF24	2'-0"	1'-2"	(3) #5 BARS CONT. WITH #5 BARS AT 12" O.C. TRAVERSE

FOUNDATION SHEET NOTES

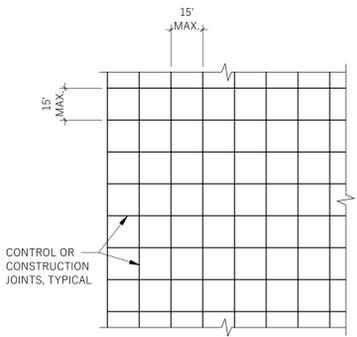
- REF. S000 SERIES FOR GENERAL NOTES, DESIGN CRITERIA.
- REF. S200 SERIES FOR FOUNDATION TYPICAL DETAILS.
- DO NOT SCALE WALL LENGTH ON PLAN. REF. ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- REFERENCE ELEVATION - TOP OF EXISTING FINISHED FLOOR ELEVATION = EL. 100'-0" = 510.61' N.A.V.D. - VERIFY IN FIELD WITH CIVIL
- WALL FOOTINGS (U.N.O.) = WF24, BOT. OF FTG. = 3'-0" MIN. BELOW GRADE, TYP.
- SLAB-ON-GRADE SHALL BE 5" CONCRETE SLAB REINFORCED WITH #4 BARS AT 16" ON CENTER LOCATED 2" FROM TOP OF SLAB, OVER A 4 INCH (MIN) THICK BASE COURSE LAYER OVER THE PREPARED FILL AND SUBGRADE. REF. SHEET S001 FOR SUBGRADE PREPARATION AND SLAB-ON-GRADE NOTES.
- REF. ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL SLOPED SLABS AND SLAB DEPRESSIONS.
- SEE APPROVED FINAL GRADING PLAN FOR GRADING INFORMATION. CONTRACTOR SHALL VERIFY THAT BOTTOM OF FOOTING ELEVATIONS MEET THE MINIMUM BEARING REQUIREMENTS GIVEN IN THE SOILS REPORT.
- LOCATE CONTROL JOINTS AT A MAXIMUM OF 15'-0" O.C. REF. DETAIL 2/S201 AT CONTROL JOINTS OR CONSTRUCTION JOINTS AT CONTRACTOR'S OPTION. DO NOT LOCATE CONTROL JOINTS ABOVE GRADE BEAMS.
- REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR ALL CONCRETE SLAB LEAVE OUTS, FLOOR DRAIN, AND SLAB PENETRATION LOCATIONS. REFER TO 7/S202
- VERIFY ALL OPENING DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- REFERENCE CIVIL DRAWINGS FOR ALL EXTERIOR SIDEWALKS, RAMPS, AND DOOR STOOPS.
- SLOPE SLAB AS REQUIRED WHILE MAINTAINING UNIFORM SLAB THICKNESS. SEE ARCH FOR SLAB SLOPES.



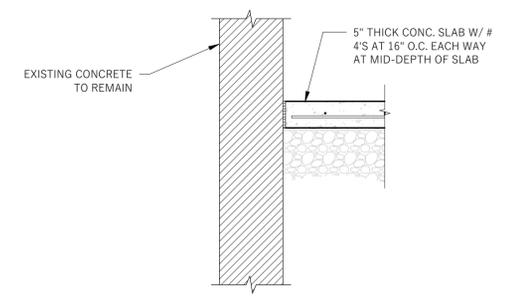
**1** TYPICAL FOOTING STEP  
S201 1/2" = 1'-0"



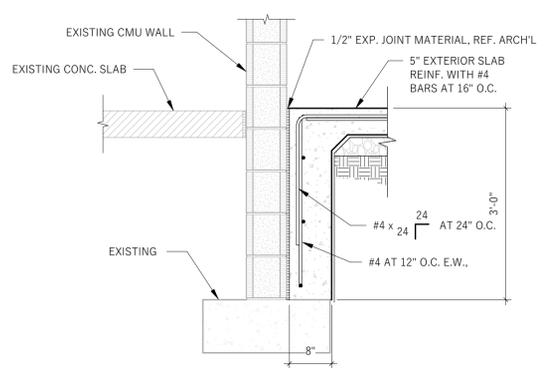
**2** TYPICAL SLAB-ON-GRADE DETAIL  
S201 3/4" = 1'-0"



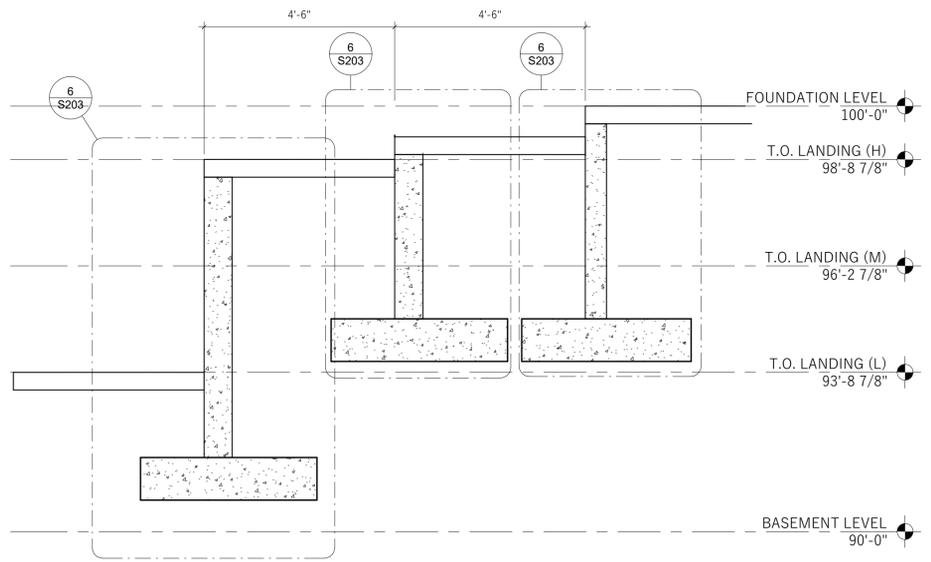
**3** SECTION AT NEW EXTERIOR STAIR  
S201 3/4" = 1'-0"



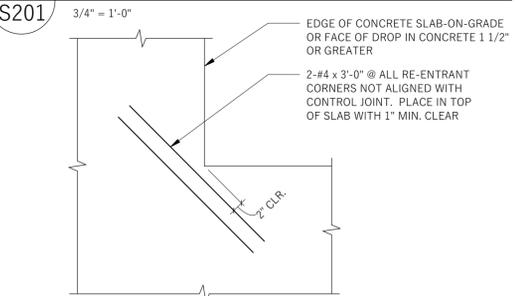
**4** NEW SLAB-ON-GRADE AT EXISTING FOUNDATION WALL  
S201 3/4" = 1'-0"



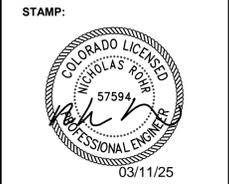
**5** SLAB TURN DOWN AT EXIST. CMU WALL  
S201 3/4" = 1'-0"



**6** SECTION AT RAMP SYSTEM  
S201 1/2" = 1'-0"

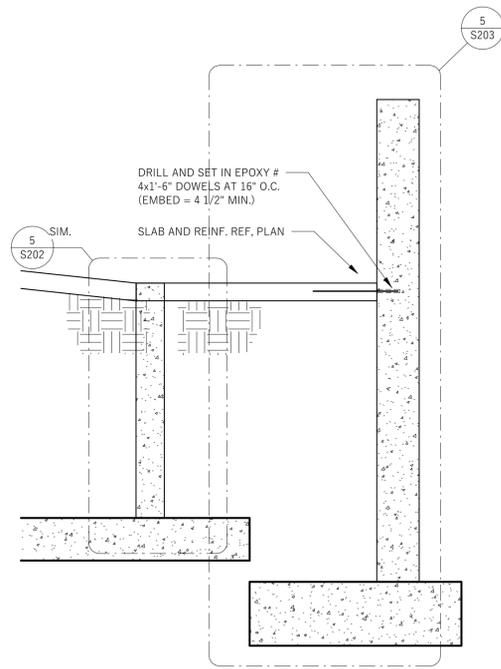


**7** TYPICAL REENTRANT CORNER BAR DETAIL  
S201 3/4" = 1'-0"

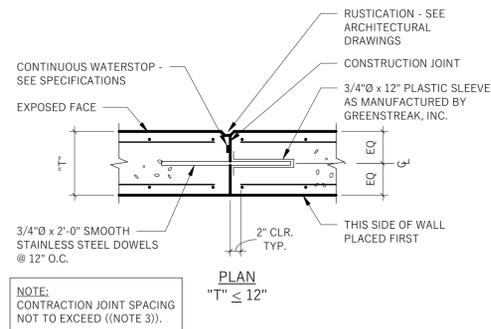


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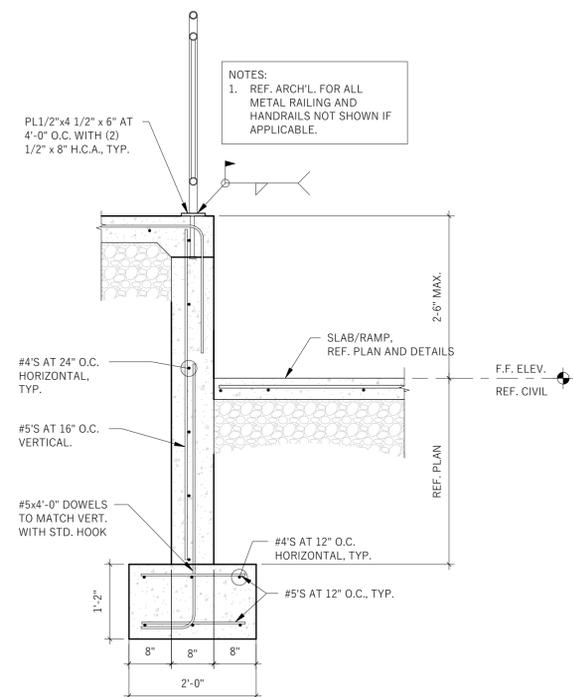
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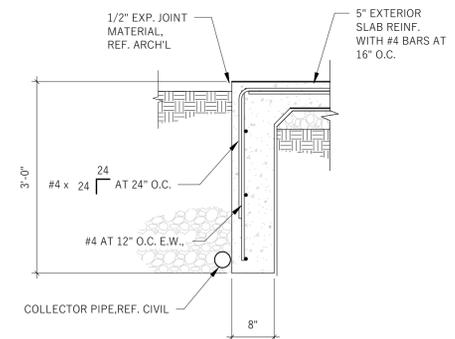
1 SECTION AT UPPER RAMP SYSTEM LANDING  
S202 1/2" = 1'-0"



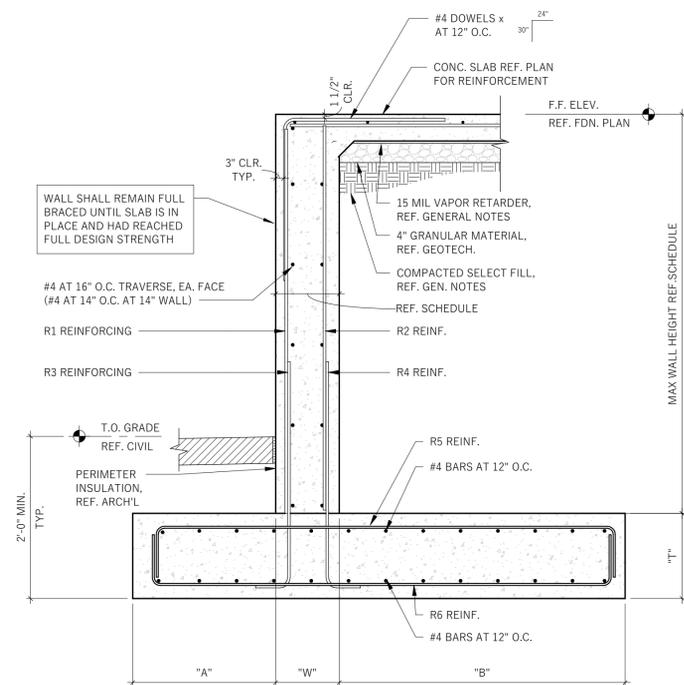
2 TYPICAL RETAINING WALL CONTROL/CONTRACTION JOINT DETAIL  
S202 3/4" = 1'-0"



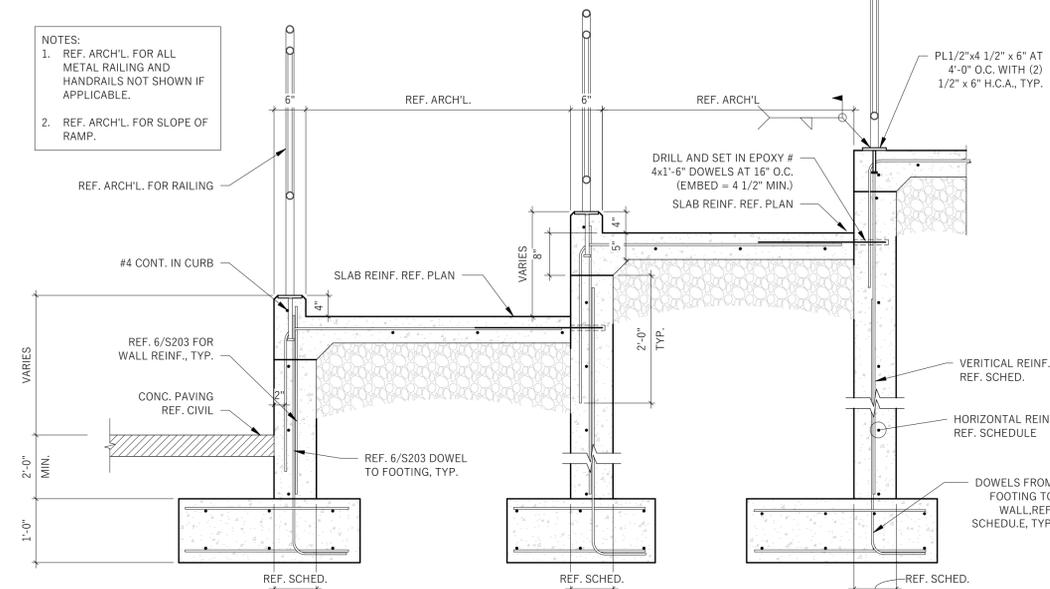
3 FOUNDATION WALL WITH WF24 FTG.  
S202 3/4" = 1'-0"



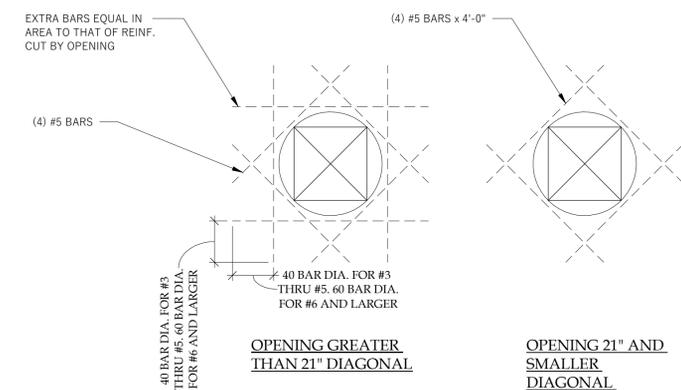
4 SLAB TURN DOWN  
S202 3/4" = 1'-0"



5 SECTION AT RETAINING WALL  
S202 3/4" = 1'-0"



6 SECTION AT RAMP SYSTEM  
S202 3/4" = 1'-0"



7 TYP. REINF. AT CONC. OPENINGS  
S202 3/4" = 1'-0"

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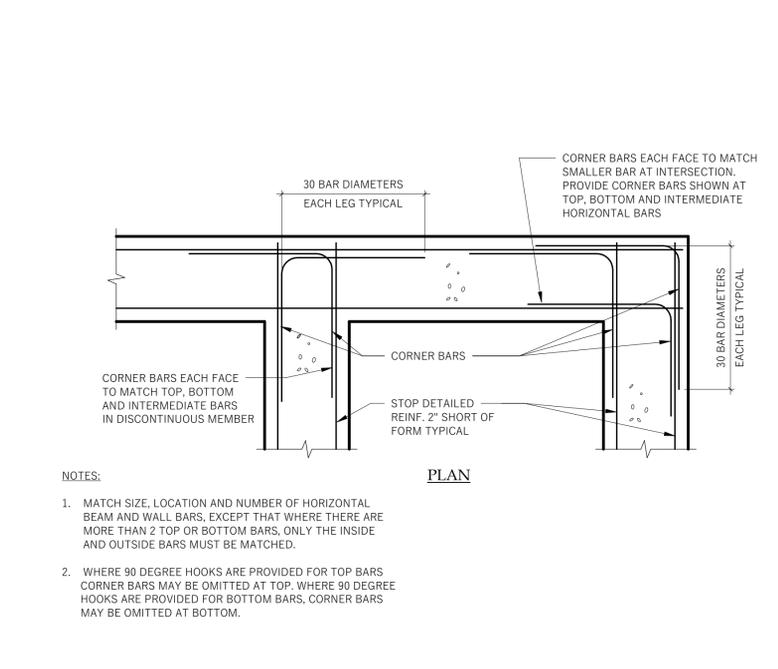
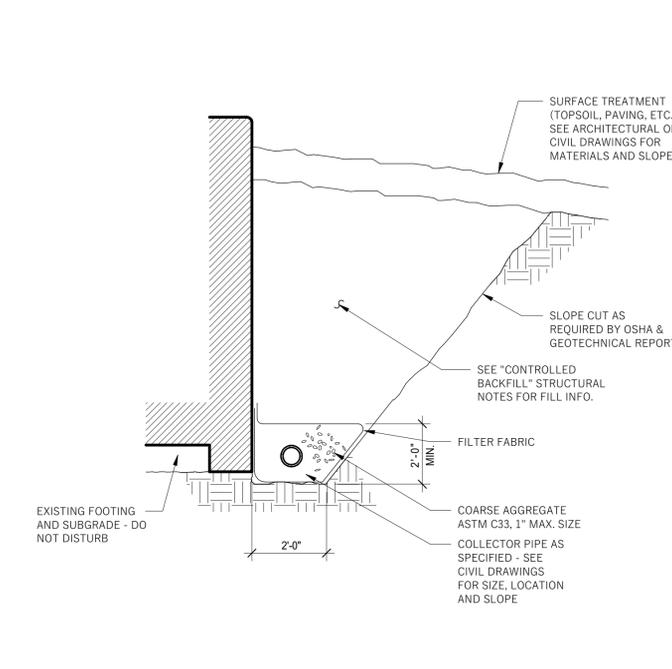
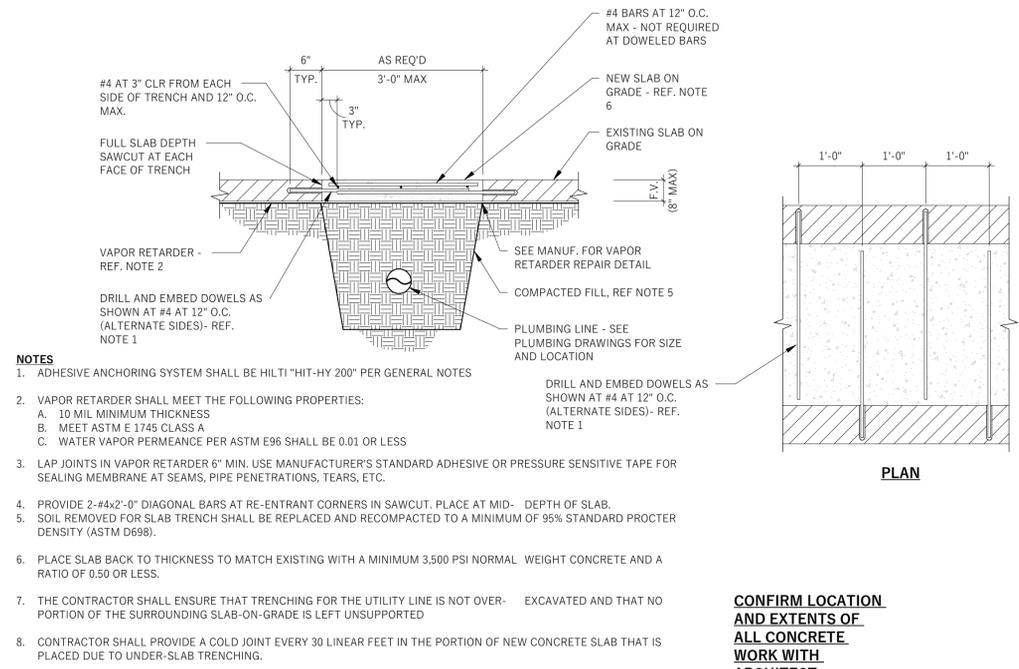


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FOUNDATION SECTIONS

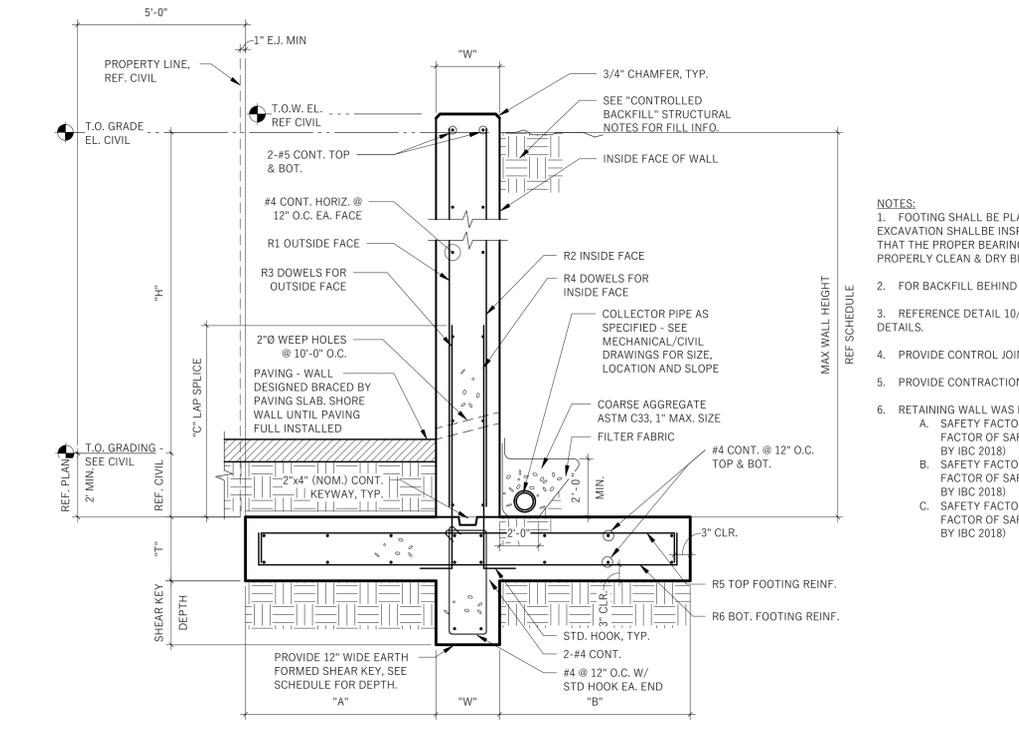
S202



1 TYP. SLAB TRENCH REPAIR  
S203 3/4" = 1'-0"

3 TYPICAL BACKFILL DETAIL  
S203 3/4" = 1'-0"

4 TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL  
S203 3/4" = 1'-0"



5 TYPICAL RETAINING WALL DETAIL  
S203 3/4" = 1'-0"

2 STEEL REINF. LAP SCHEDULE  
S203 3/4" = 1'-0"

BAR SIZE	CONCRETE LAP SPLICE (INCHES)						CMU LAP SPLICE (INCHES)
	f'c = 3,000psi		f'c = 3,500psi		f'c = 4,000psi		
	TOP	OTHER	TOP	OTHER	TOP	OTHER	
3	22	17	20	16	20	15	18
4	29	22	27	21	25	19	24
5	36	28	33	26	32	24	30
6	43	33	40	31	38	29	36
7	63	48	58	45	55	42	42
8	72	55	66	51	63	48	48

2 STEEL REINF. LAP SCHEDULE  
S203 3/4" = 1'-0"

MARK	MAX WALL HEIGHT	DIMENSIONS						REINFORCING						SHEAR KEY DEPTH
		"H" MAX.	"A"	"B"	"C"	"T"	"W"	R1	R2	R3	R4	R5	R6	
		RW-1	5'-0"	3'-0"	1'-6"	2'-0"	2'-0"	1'-0"	8"	#4 @ 12"	N/A	#4 @ 12" x [ ]	N/A	
RW-2	7'-0"	5'-0"	1'-6"	2'-0"	2'-0"	1'-0"	8"	#4 @ 12"	N/A	#4 @ 12" x [ ]	N/A	#5 @ 12" x [ ]	#5 @ 12" x [ ]	N/A
RW-3	9'-0"	7'-0"	4'-6"	1'-6"	2'-0"	1'-0"	8"	#5 @ 14"	N/A	#5 @ 14" x [ ]	N/A	#5 @ 12" x [ ]	#5 @ 12" x [ ]	N/A
RW-4	12'-0"	10'-0"	3'-0"	4'-0"	2'-0"	1'-0"	12"	#4 @ 18"	#5 @ 6"	#4 @ 18" x [ ]	#5 @ 6" x [ ]	#8 @ 6" x [ ]	#5 @ 12" x [ ]	N/A

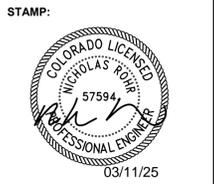
6 RETAINING WALL SCHEDULE  
S203 3/4" = 1'-0"

ARCHITECT:  
**10**  
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FOUNDATION DETAILS  
**S203**