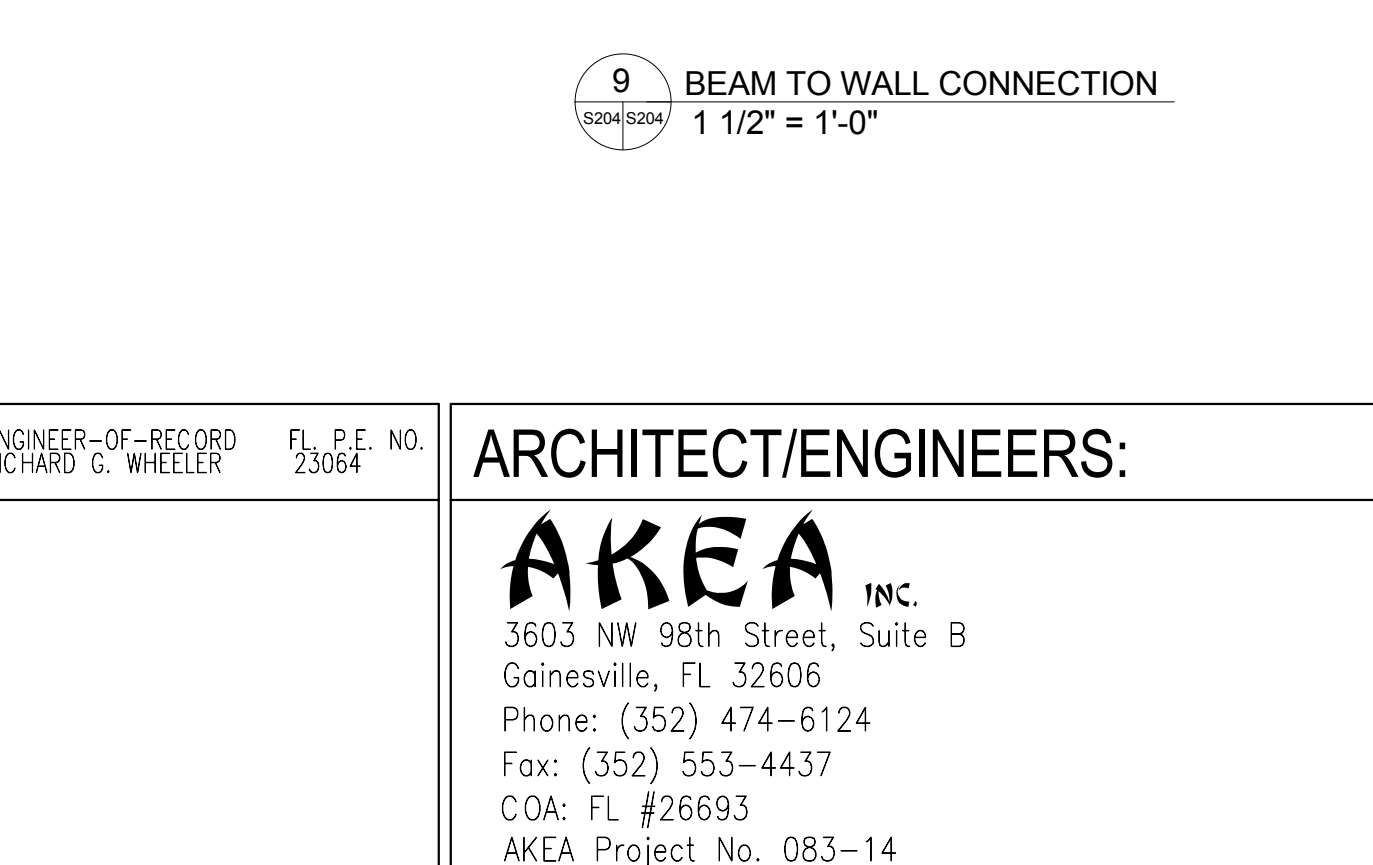
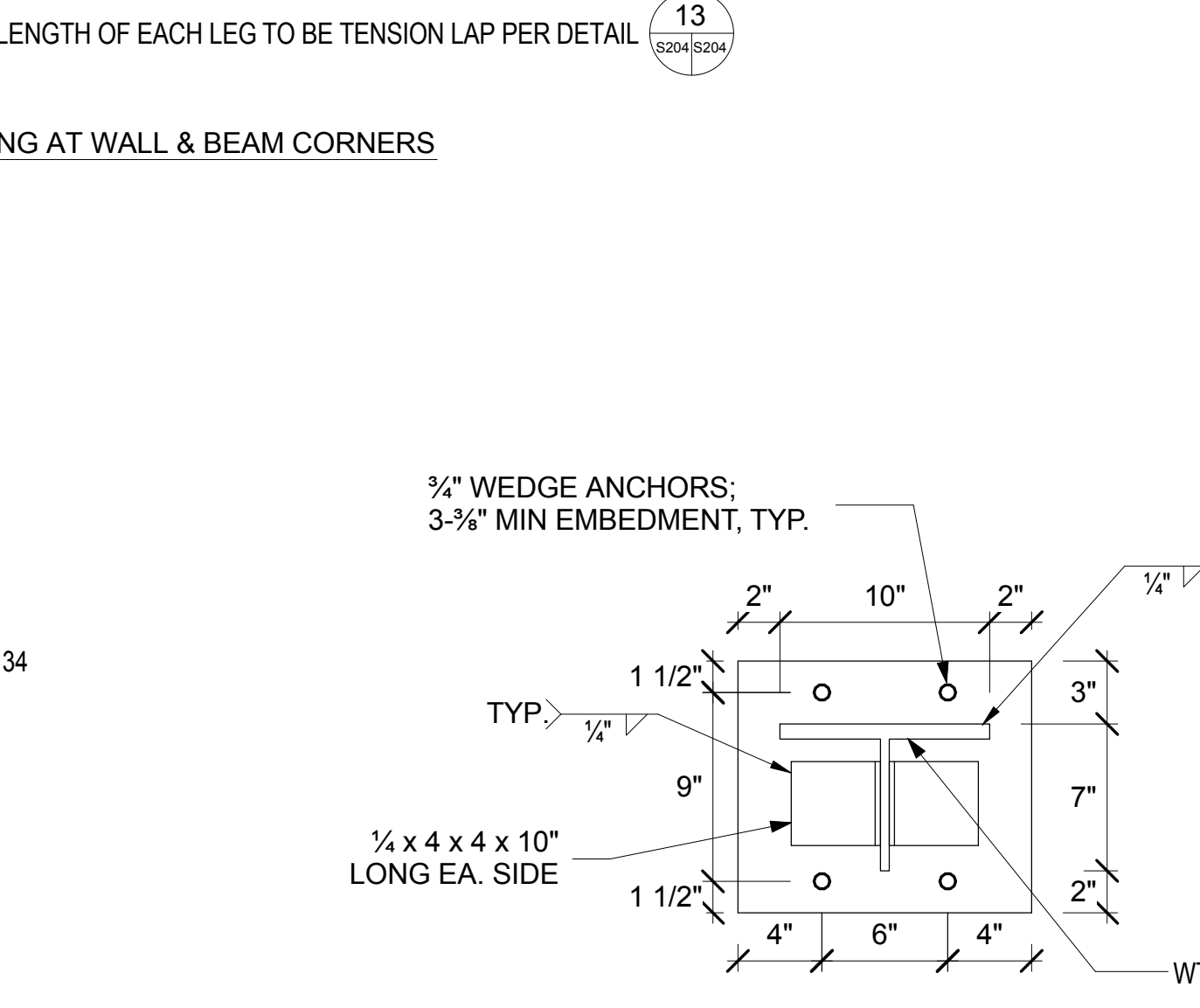
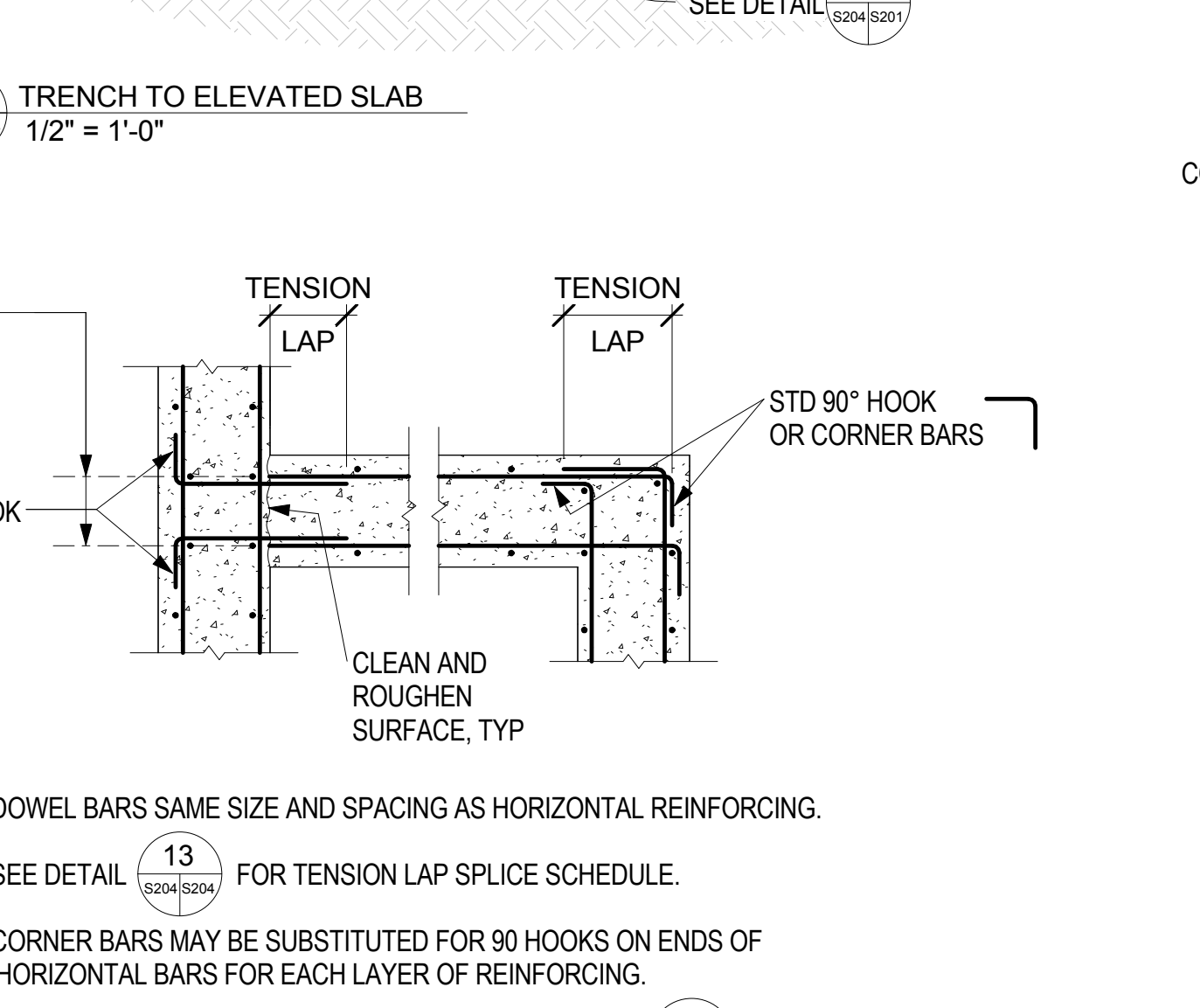
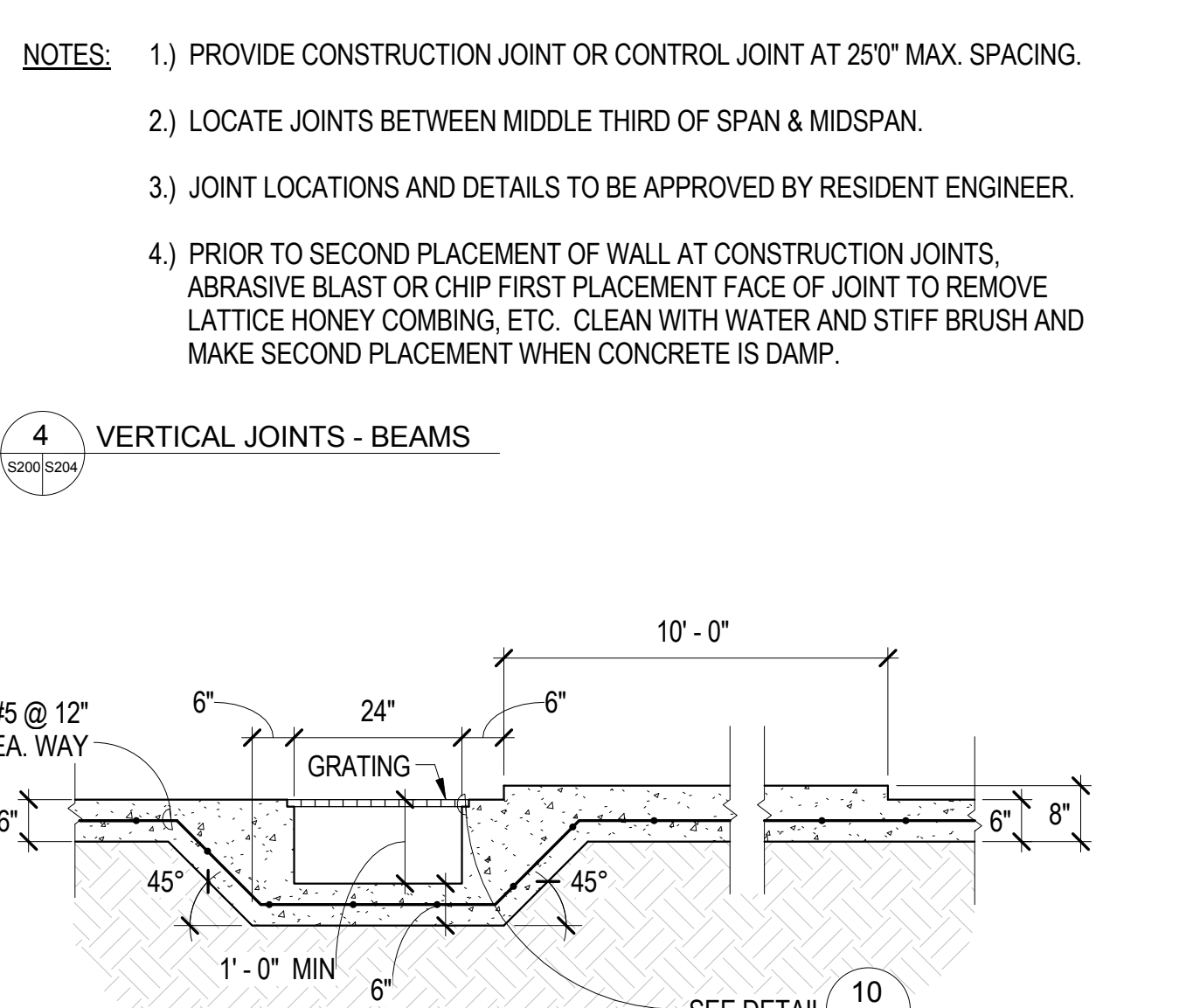
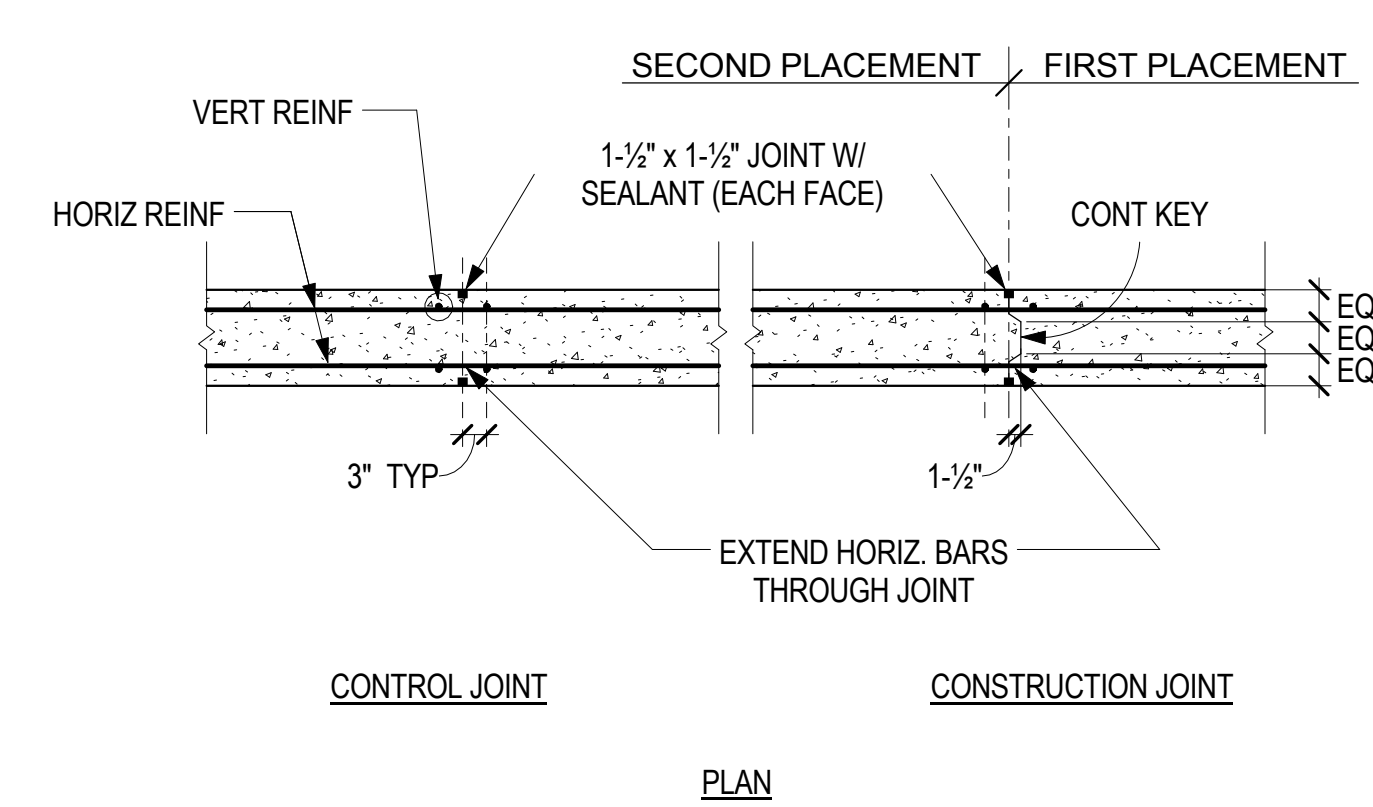
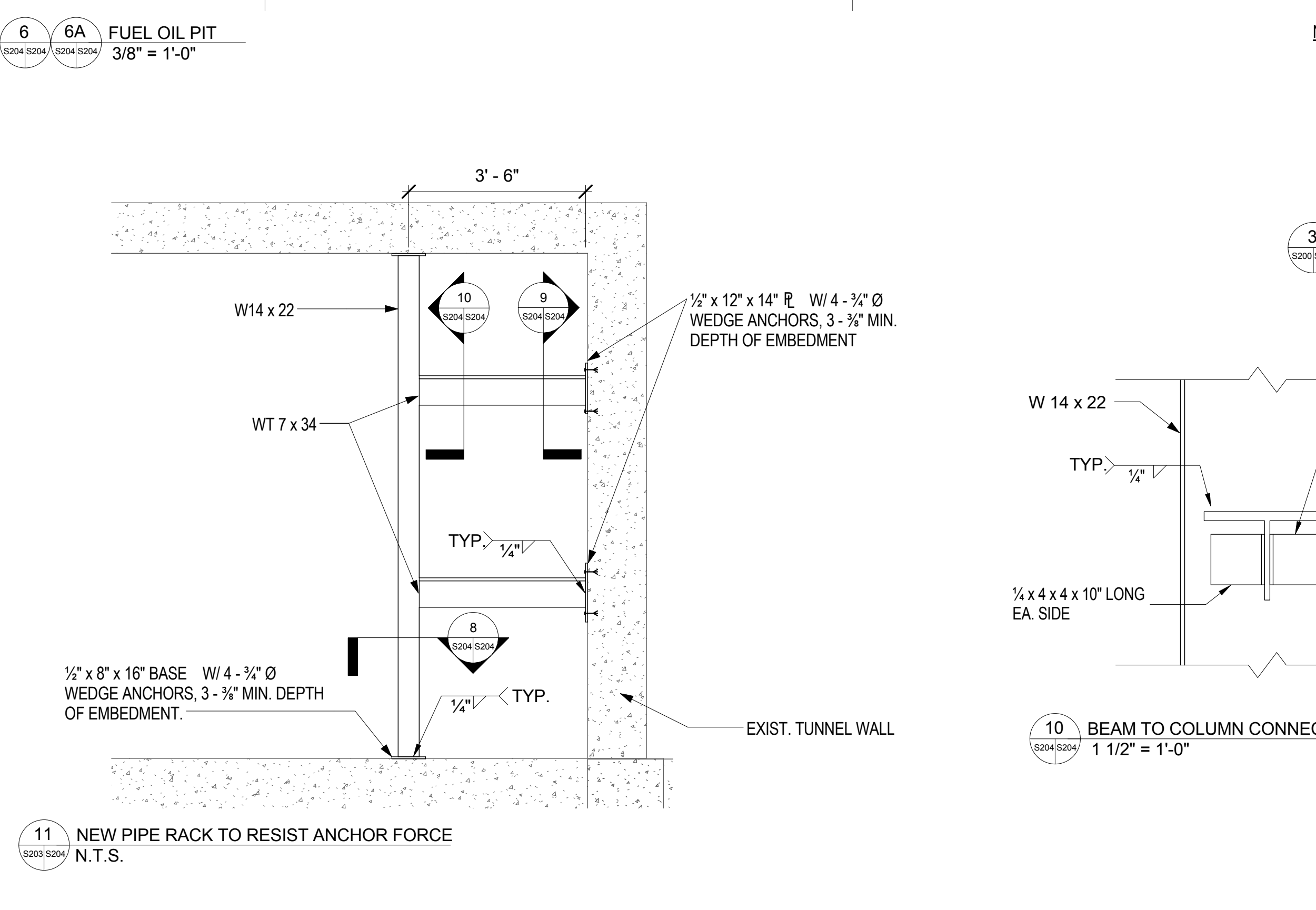
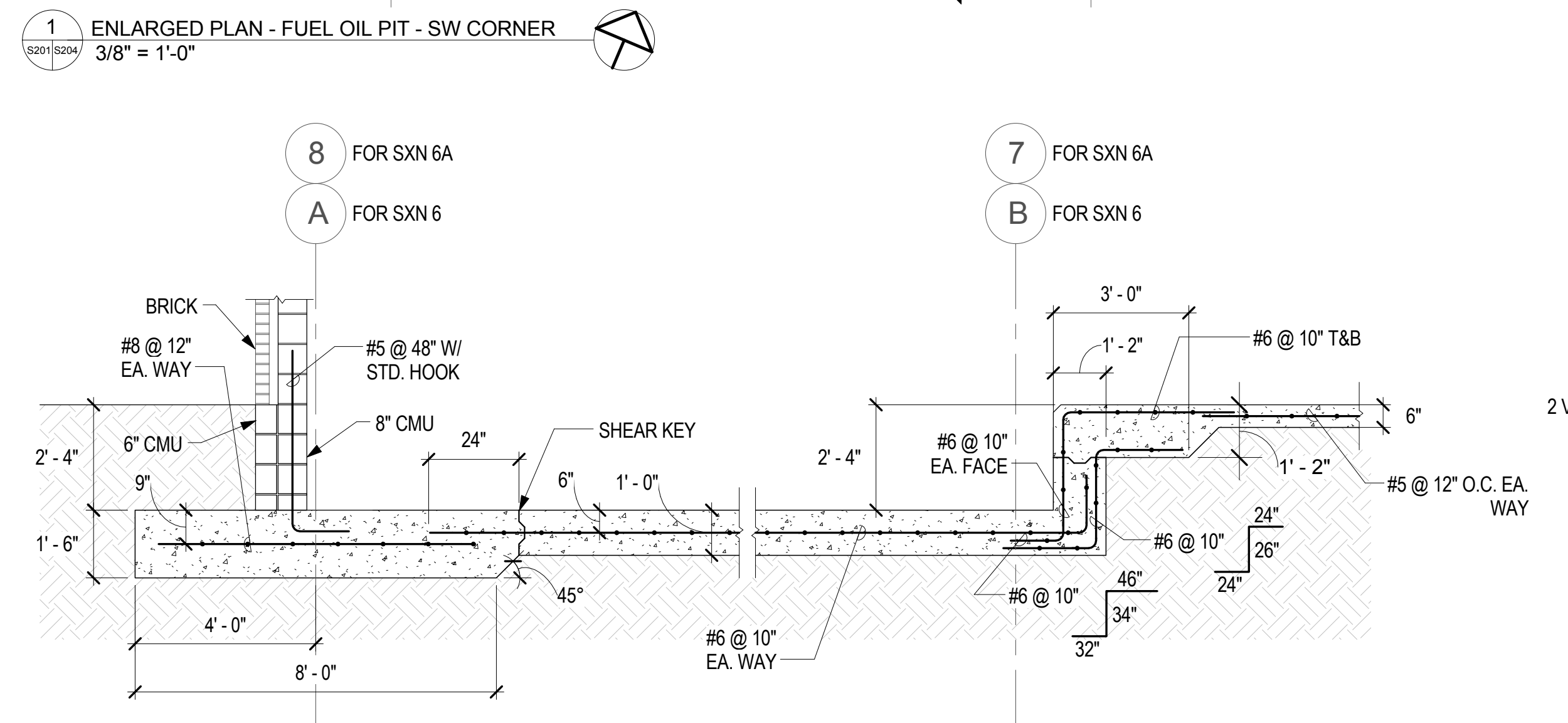
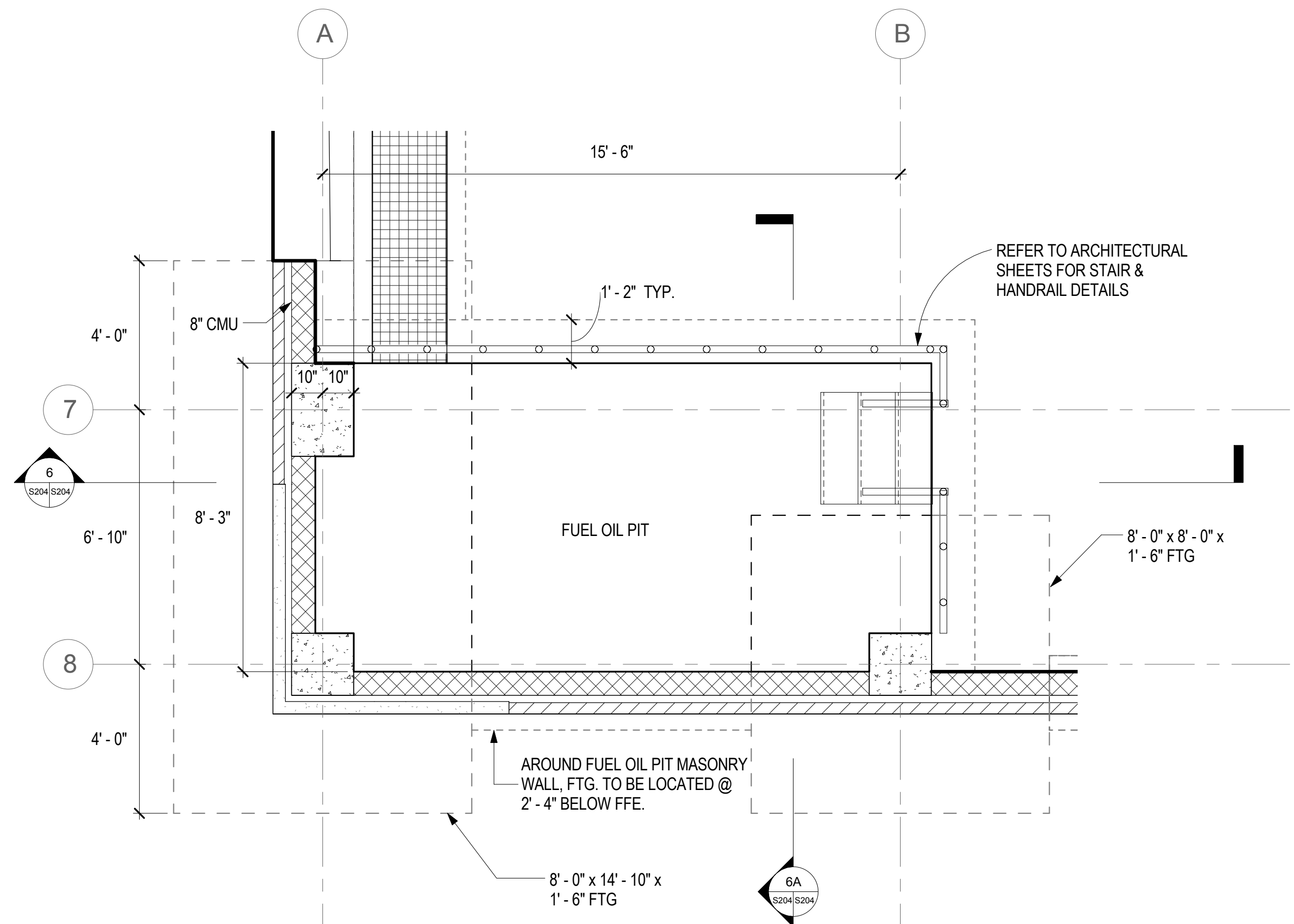
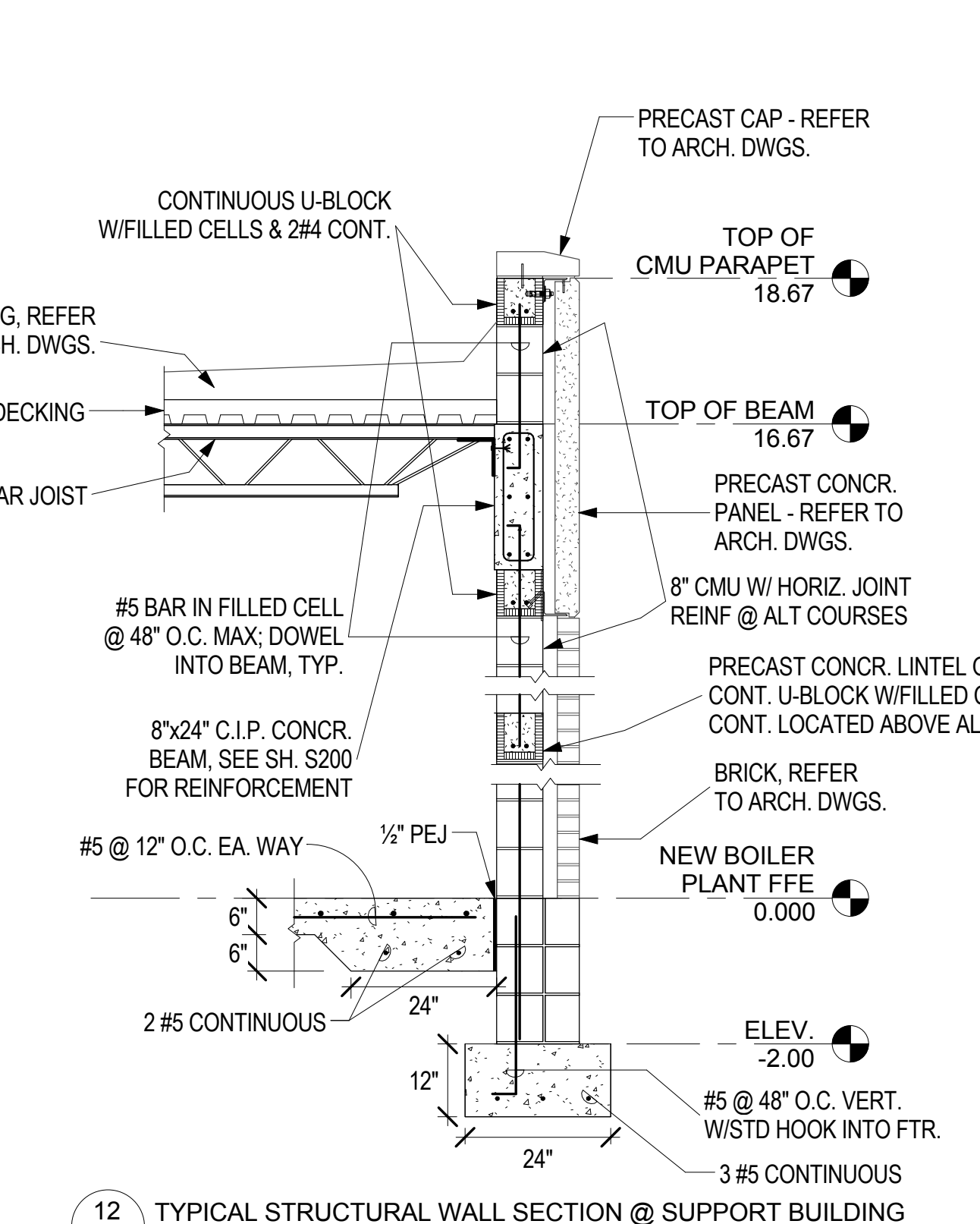


one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
fourteen inches = one foot
fifteen inches = one foot
sixteen inches = one foot
seventeen inches = one foot
eighteen inches = one foot
nineteen inches = one foot
twenty inches = one foot
twenty one inches = one foot
twenty two inches = one foot
twenty three inches = one foot
twenty four inches = one foot
twenty five inches = one foot
twenty six inches = one foot
twenty seven inches = one foot
twenty eight inches = one foot
twenty nine inches = one foot
thirty inches = one foot
thirty one inches = one foot
thirty two inches = one foot
thirty three inches = one foot
thirty four inches = one foot
thirty five inches = one foot
thirty six inches = one foot
thirty seven inches = one foot
thirty eight inches = one foot
thirty nine inches = one foot
forty inches = one foot
forty one inches = one foot
forty two inches = one foot
forty three inches = one foot
forty four inches = one foot
forty five inches = one foot
forty six inches = one foot
forty seven inches = one foot
forty eight inches = one foot
forty nine inches = one foot
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seventy one inches = one foot
seventy two inches = one foot
seventy three inches = one foot
seventy four inches = one foot
seventy five inches = one foot
seventy six inches = one foot
seventy seven inches = one foot
seventy eight inches = one foot
seventy nine inches = one foot
eighty inches = one foot
eighty one inches = one foot
eighty two inches = one foot
eighty three inches = one foot
eighty four inches = one foot
eighty five inches = one foot
eighty six inches = one foot
eighty seven inches = one foot
eighty eight inches = one foot
eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot

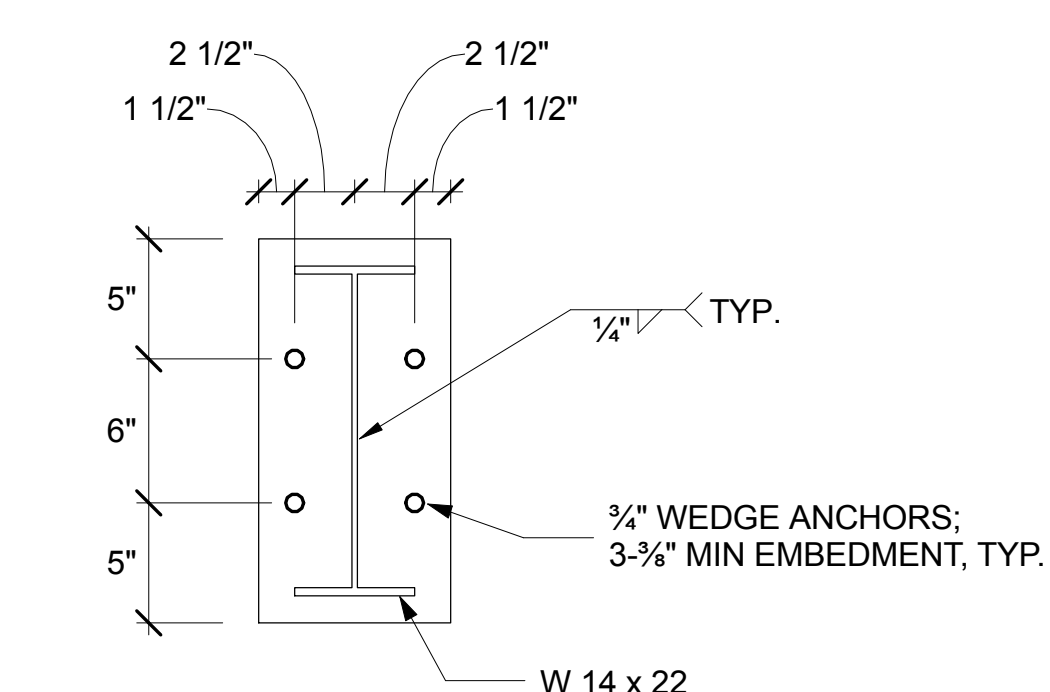


CENTER TO CENTER BAR SPACING	BAR SIZE	CONCRETE STRENGTH, PSI	
		4000	5000
MORE THAN 5"	#5	1' - 11"	
	#6	2' - 4"	
	#7	2' - 9"	
	#8	3' - 3"	
	#9	4' - 2"	
MORE THAN 5-1/2"	#10	5' - 3"	
MORE THAN 5-1/2"	#11	6' - 5"	
5" OR LESS	#10	7' - 4"	
5-1/2" OR LESS	#11	9' - 0"	

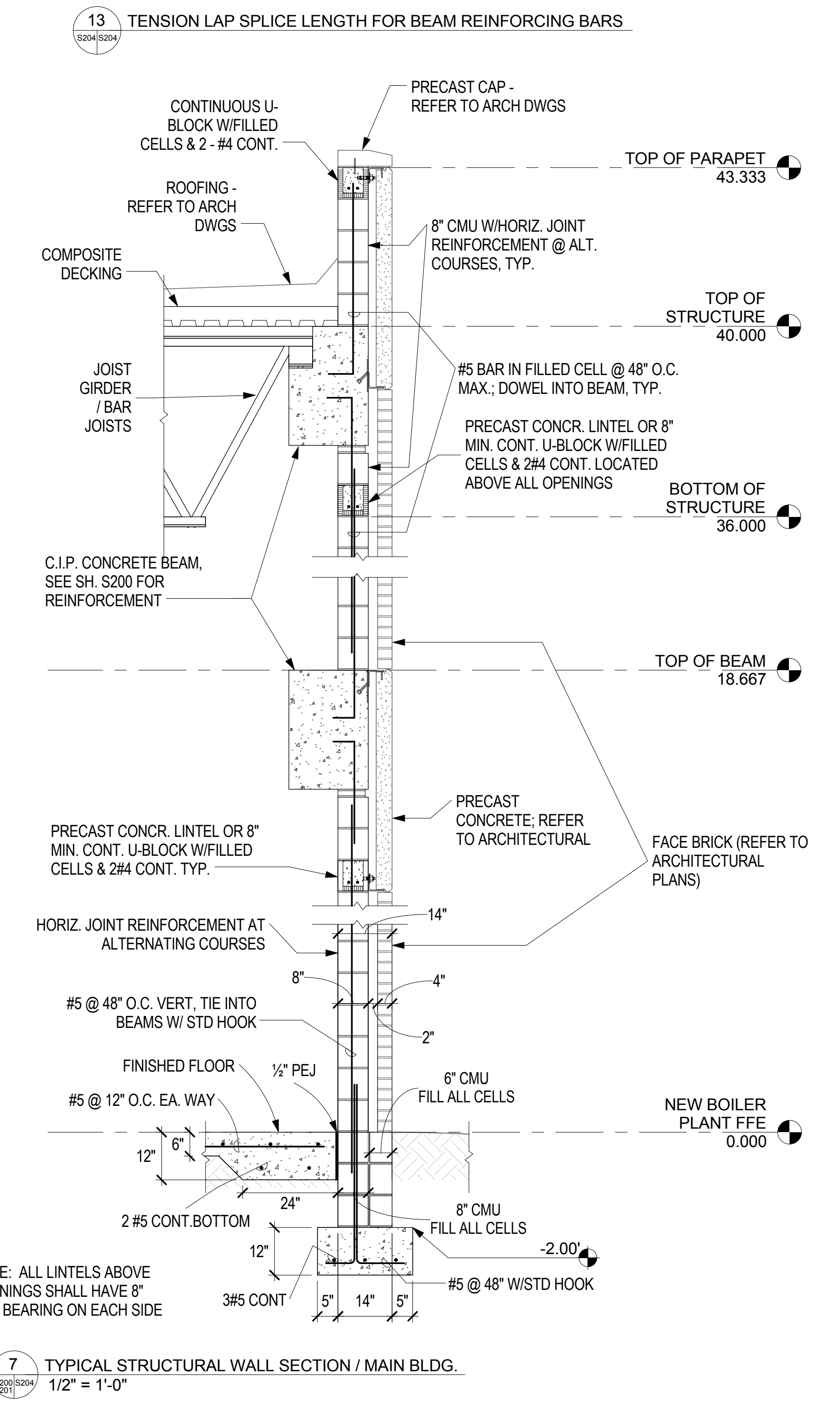
2 SPLICE LENGTHS FOR COLUMN VERTICAL BARS



12 TYPICAL STRUCTURAL WALL SECTION @ SUPPORT BUILDING



8 COLUMN TO FLOOR CONNECTION



7 TYPICAL STRUCTURAL WALL SECTION / MAIN BLDG.

GRADE 60 BARS	CENTER TO CENTER BAR SPACING	CONCRETE STRENGTH, PSI			
		LESS THAN 4db	4db OR MORE (NOTE 3)	2db	4db
#4	TOP BARS	2' - 2"	2' - 0"	1"	2"
#5	TOP BARS	3' - 4"	2' - 8"	1 1/4"	2 1/2"
#6	TOP BARS	4' - 5"	3' - 0"	1 1/4"	3"
#7	TOP BARS	5' - 5"	3' - 6"	1 1/4"	3 1/2"
#8	TOP BARS	6' - 6"	4' - 3"	2"	4"
#9	TOP BARS	7' - 7"	5' - 4"	2 1/4"	4 1/2"
#10	TOP BARS	8' - 8"	6' - 10"	2 1/2"	5"
#11	TOP BARS	9' - 9"	7' - 11"	2 3/4"	5 1/2"

- NOTES:
- THIS DETAIL DOES NOT APPLY TO COLUMN VERTICAL BARS.
 - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
 - THE USE OF TABULATED VALUES IN THIS COLUMN IS DEPENDENT UPON A MINIMUM CONCRETE COVER AS FOLLOWS: OUTER LAYER BARS IN WALLS AND SLABS REQUIRE 2db MINIMUM COVER. ALL OTHER BARS REQUIRE db MINIMUM COVER REQUIREMENTS ARE NOT MET, VALUES IN THE "LESS THAN 4db" COLUMN.

FINAL DESIGN
APPROVED FOR CONSTRUCTION

CONSULTANTS:	ENGINEER-OF-RECORD RICHARD C. WHEELER FL P.E. NO. 23064	ARCHITECT/ENGINEERS: AKEA INC. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 553-4437 COA: FL #26693 AKEA Project No. 083-14	Drawing Title SECTIONS & DETAILS	Project Title REPLACE BOILERS - FCA D, ENERGY AT THE MALCOM RANDALL VAMC	Project Number 573-14-600	Office of Construction and Facilities Management
			Approved: Project Director	Location GAINESVILLE, FLORIDA	Building Number	
				Date JULY 8, 2016	Checked RGW	
				Drawn JG	Drawing Number S204	