

- NOTES
- DESIGNED AND TESTED IN ACCORDANCE WITH WIND LOAD PROVISIONS OF THE FLORIDA BUILDING CODE AND INTERNATIONAL BUILDING CODE. PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WIND LOAD CONSTRUCTION DETAILS.
 - PRESSURES LISTED AS POSITIVE/NEGATIVE (DESIGN).
 - SECTION HEIGHTS MAY VARY TO CREATE VARIOUS DOOR HEIGHTS, 24" MAXIMUM SECTION HEIGHT.
 - LIFT CLEARANCE OR FULL VERTICAL TRACK MAY ALSO BE USED. LOW HEADROOM TRACK MAY BE USED WITH EITHER DRAWBAR OPERATOR OR LOCK.
 - FASTENING METHODS (TRACK TO WALL), SPACING BASED ON BRACKET SPACING (SEE CHART BELOW):

- A. JAMB BRACKETS (TYP WOOD JAMBS) STYLE TRACK-- 5/16" x 1 3/4" LAG BOLT, OR EQUIVALENT.
- B. ALTERNATE ANGLE MOUNT--SEE SHEET 2
6. FOR COMMERCIAL HARDWARE DETAILS SEE DRAWING 408717.
7. STRUTS TO BE ATTACHED ± 3" FROM CENTER LINE OF SECTION.
8. MULTIPLE ALUMINUM FULL VIEW OR GLAZED SECTIONS MAY REPLACE ANY SECTION EXCEPT TOP AND BOTTOM SECTIONS.
9. ALUMINUM FULL VIEW SECTIONS TO BE INSTALLED WITH MIN 1/8" DSB GLAZING AND ALUMINUM RETAINERS TO MEET THE LISTED STATIC DESIGN PRESSURES.
10. MAX WIDTH 18 FT. FOR ALUMINUM FULL VIEW SECTIONS AT THE LISTED DESIGN PRESSURES.
11. GLAZING FRAME OPTION-1/8" MIN DSB GLAZING MEETS UNIFORM STATIC DESIGN PRESSURES LISTED ON

- THIS DRAWING, GLAZING FRAME SHALL HAVE MAX HEIGHT OF 7" AND MAX LENGTH OF 24".
- GLAZING OPTIONS ARE NOT IMPACT RESISTANT AND DO NOT MEET THE REQUIREMENTS FOR WIND BORNE DEBRIS REGIONS.
- STRUTS ON FULL VIEW OF GLAZED SECTION(S) TO MATCH THE STRUTS ON THE ADJACENT STEEL SECTIONS.
- STRUT OR Z STRUT INSTALLATION:
- A. FOR STRUTS ONLY-- USE ONE SCREW (P/N 605879-0002) ON BOTH SIDES OF STRUT AT EACH END STILE AND CENTER STILE.
- B. FOR Z STRUT (P/N 407756-XXXX) OR 6" C-CHANNEL (410819-XXXXXX).

- USE 1 SCREW (P/N 605879-0002) AT EACH END STILE AND CENTER STILE TO ATTACH.
- ATTACH A STRUT STRAP AT EVERY HINGE.
- USE ONE SCREW AT THE TOP AND BOTTOM RAIL OF THE SECTION AND ONE SCREW THROUGH Z STRUT (ATTACH 6" TALL C-CHANNEL TO STRUT WITH 2X SCREWS PER STRUT LOCATION).
- REFERENCE WINDLOAD SPECIFICATION CHART FOR END STILE REQUIREMENTS (SEE DETAIL E).
- WHEN STANDARD SECTION WITH DOUBLE END STILE.
- A = 1.00" AND B = 6.5"
- WHEN FULL VISION WITH DOUBLE END STILE.
- A = 1.00" AND B = 6.5"

REVISIONS

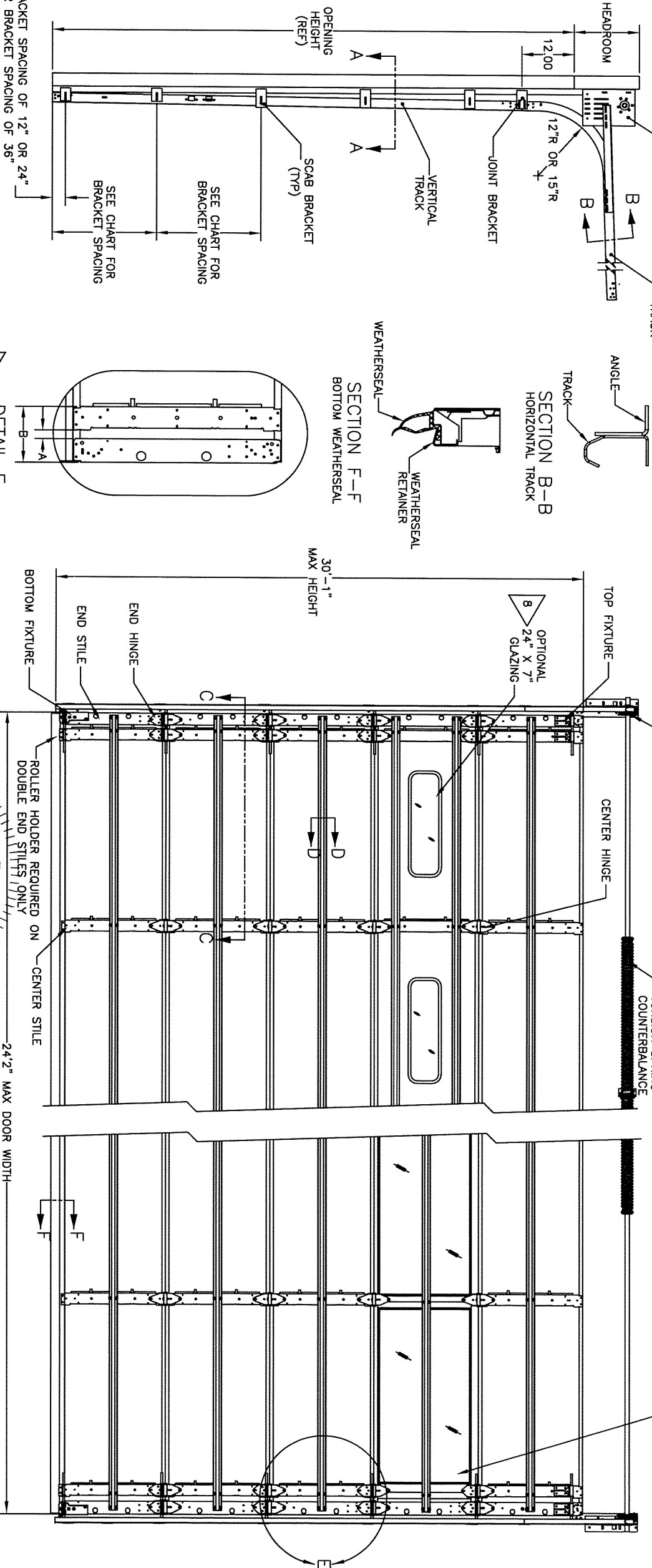
REV	REV	DESCRIPTION	DATE	APPROV
501337	E	REVISED PER ER	10/12/11	SFT
32489	F	ADDED SECOND PAGE	10/6/20	TLC
32933	G	ADDED 2 4x3" 20GA STRUTS	05/03/23	M.D.M

11. THE 6" TALL 16GA Z(407756-0001) OR (2) HS-3 MAY BE SUBSTITUTED FOR 6" 16GA (410819).

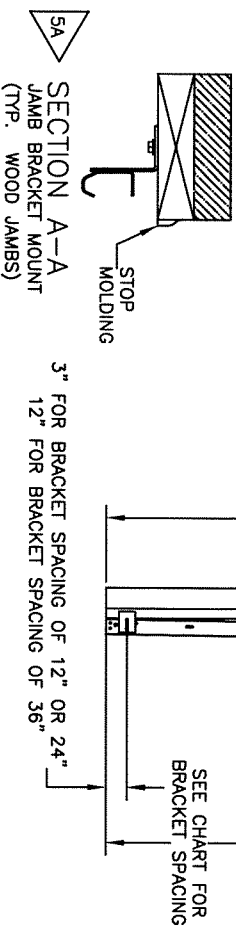
12. 2" 20GA STEEL STRUTS (412619-XXXX2) MAY BE SUBSTITUTED FOR HS-1 (400650-0001).

13. 3" 20GA STEEL STRUTS (41186-XXXX2) MAY BE SUBSTITUTED FOR HS-2 STRUTS (400650-0002).

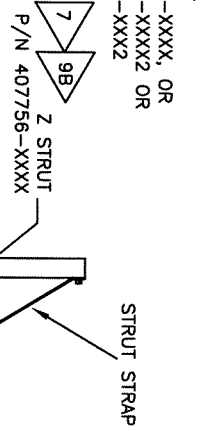
OPTIONAL _____



SIDE ELEVATION OF TYPICAL COMMERCIAL TRACK



DETAIL E
DOUBLE END STILE

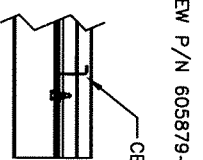


SECTION D-D
STEEL STRUT



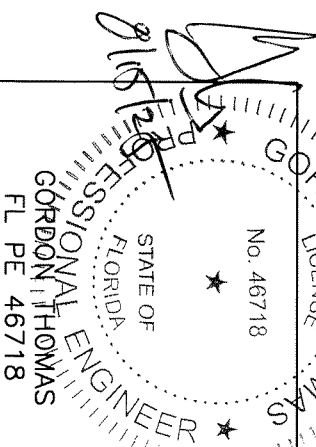
STRUT	THICK	HEIGHT
HS-0	0.020	2.25
HS-1	0.030	2.25
HS-2	0.052	2.25
HS-3	0.055	3.50
2" 20GA	0.034	2.00
3" 20GA	0.034	3.00

SECTION C-C
SECTION REINFORCEMENT



INTERIOR DOOR ELEVATION

SERIES 416/418: 26/-26 PSF WINDLOAD									
DOOR WIDTH UP TO	END STILE QTY	Center STILE QTY	STRUT QTY	TYPE	TIRE DIA.	STEM DIA.	BRACKET VERTICAL GAGE	JAMB LOAD LB/FT (HEIGHT)	HARDWARE
8'2"	Single 1	0	NONE	TR-3	2"	7/16"	24"	0.049"	106 Standard
10'2"	Single 2	1	HS-1	TR-3	2"	7/16"	24"	0.049"	132 Standard
12'2"	Double 2	1	HS-2	TR-3	2"	7/16"	24"	0.049"	154 Standard
14'2"	Double 3	1	HS-2	TR-3	2"	7/16"	24"	0.049"	184 Standard
16'2"	Double 4	1	HS-3	TR-5	2"	7/16"	12"	0.068"	210 Standard
18'2"	Double 6	1	HS-3	TR-5	2"	7/16"	12"	0.068"	236 Standard
20'2"	Double 6	2	HS-3	TR-5	2"	7/16"	12"	0.068"	262 Standard
22'2"	Double 6	2	HS-3	TR-5	2"	7/16"	12"	0.068"	288 Standard
24'2"	Double 9	1	2 (6.16ga) TR-5	2"	7/16"	11/4"	12"	0.068"	314 Standard



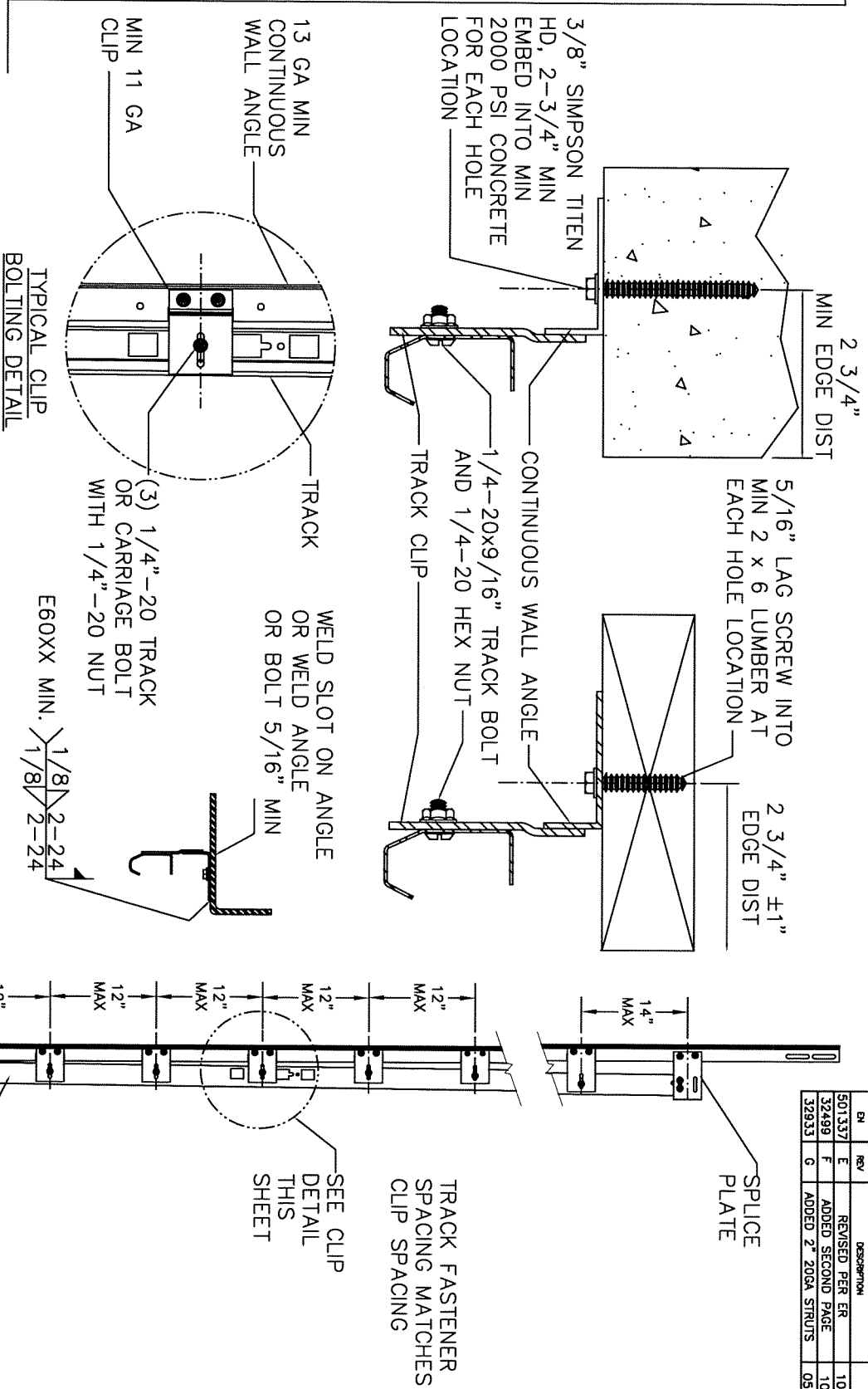
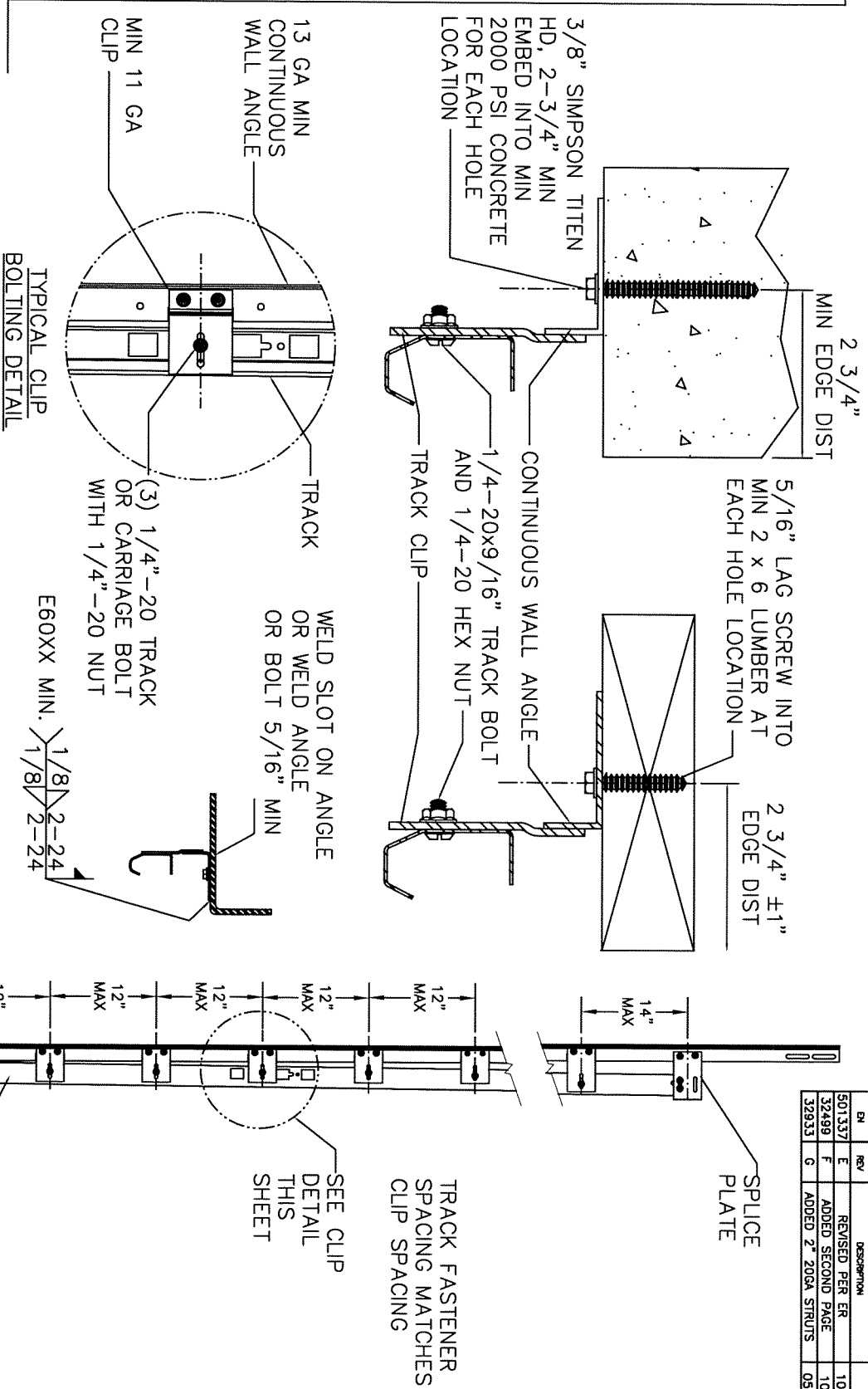
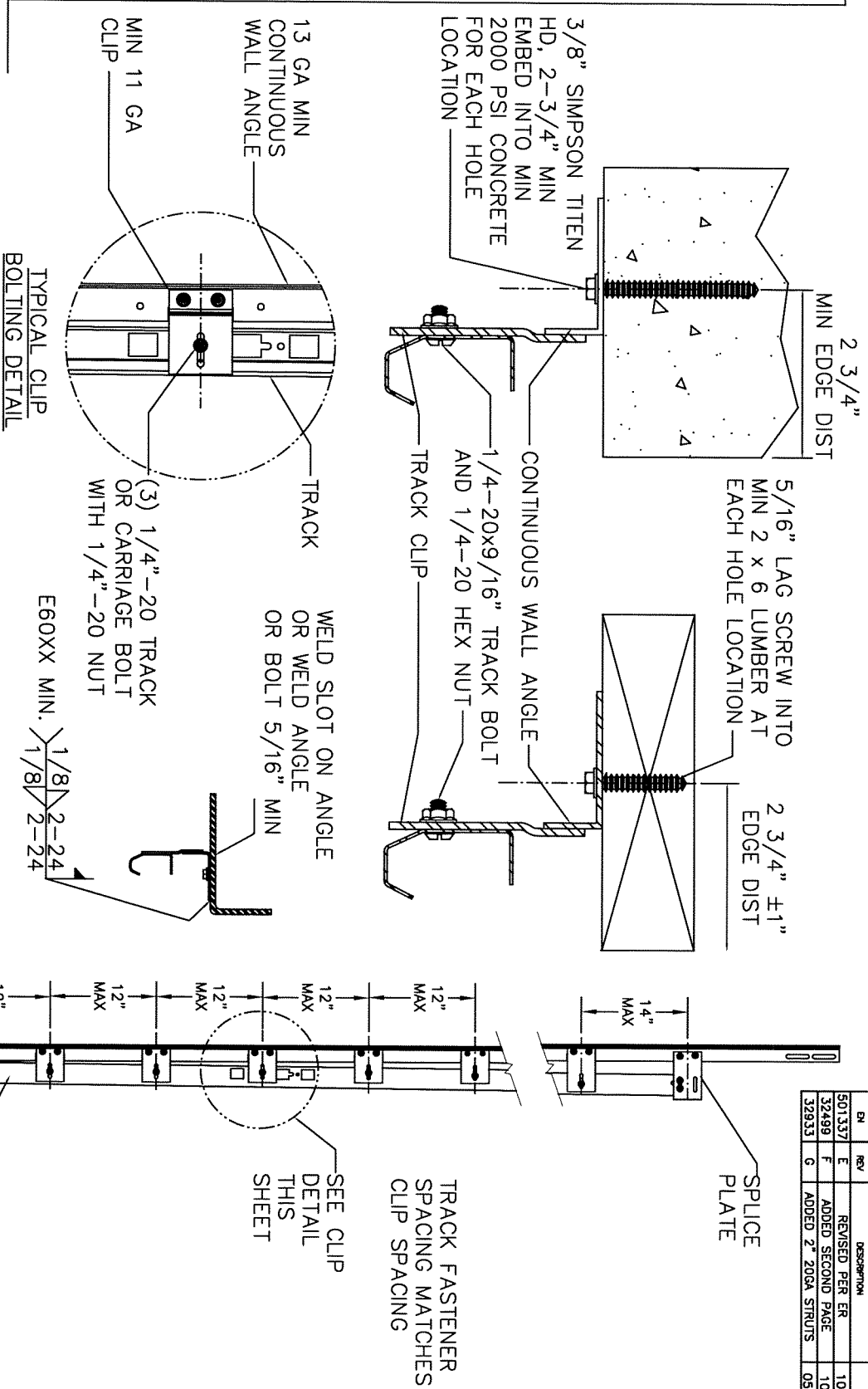
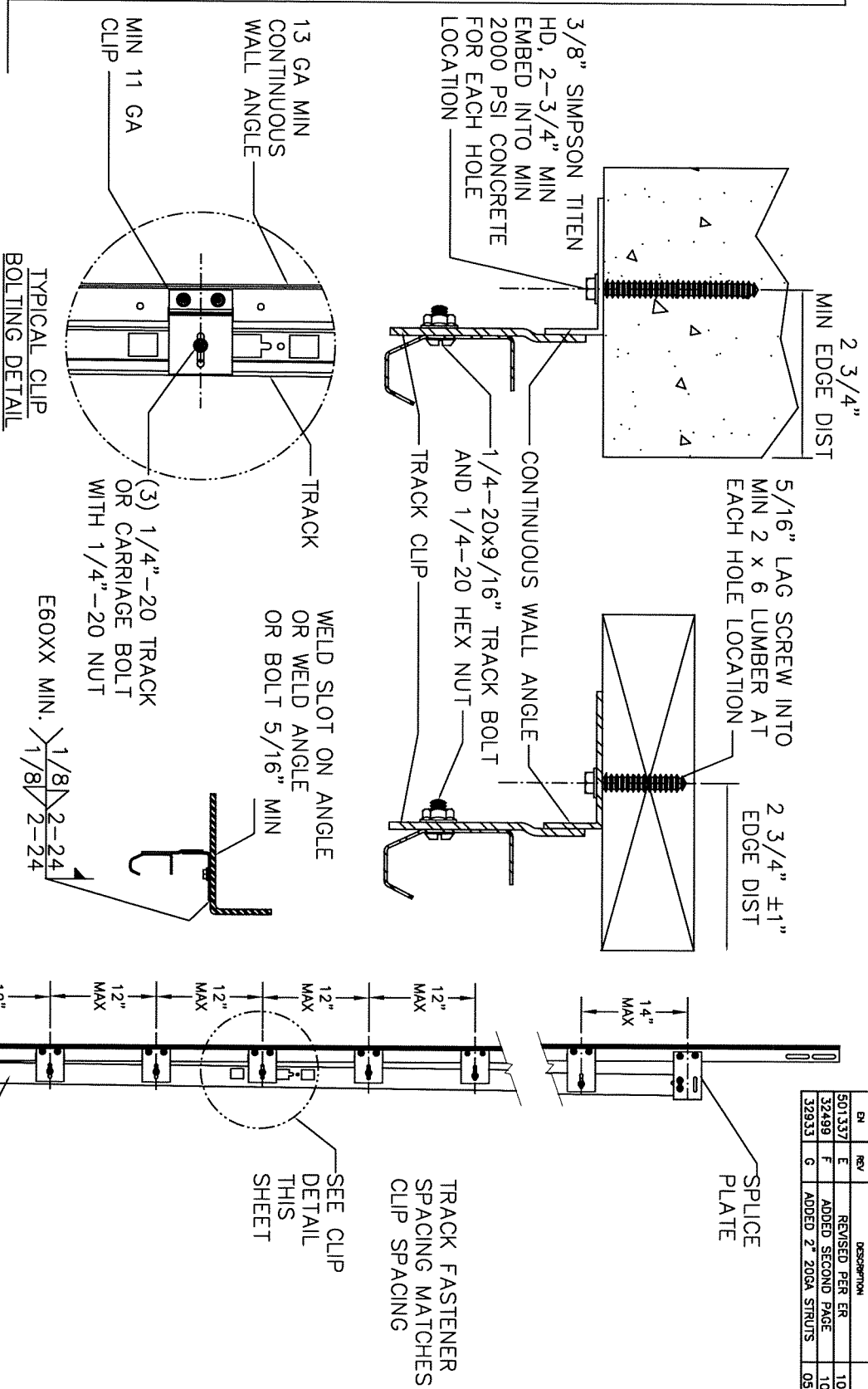
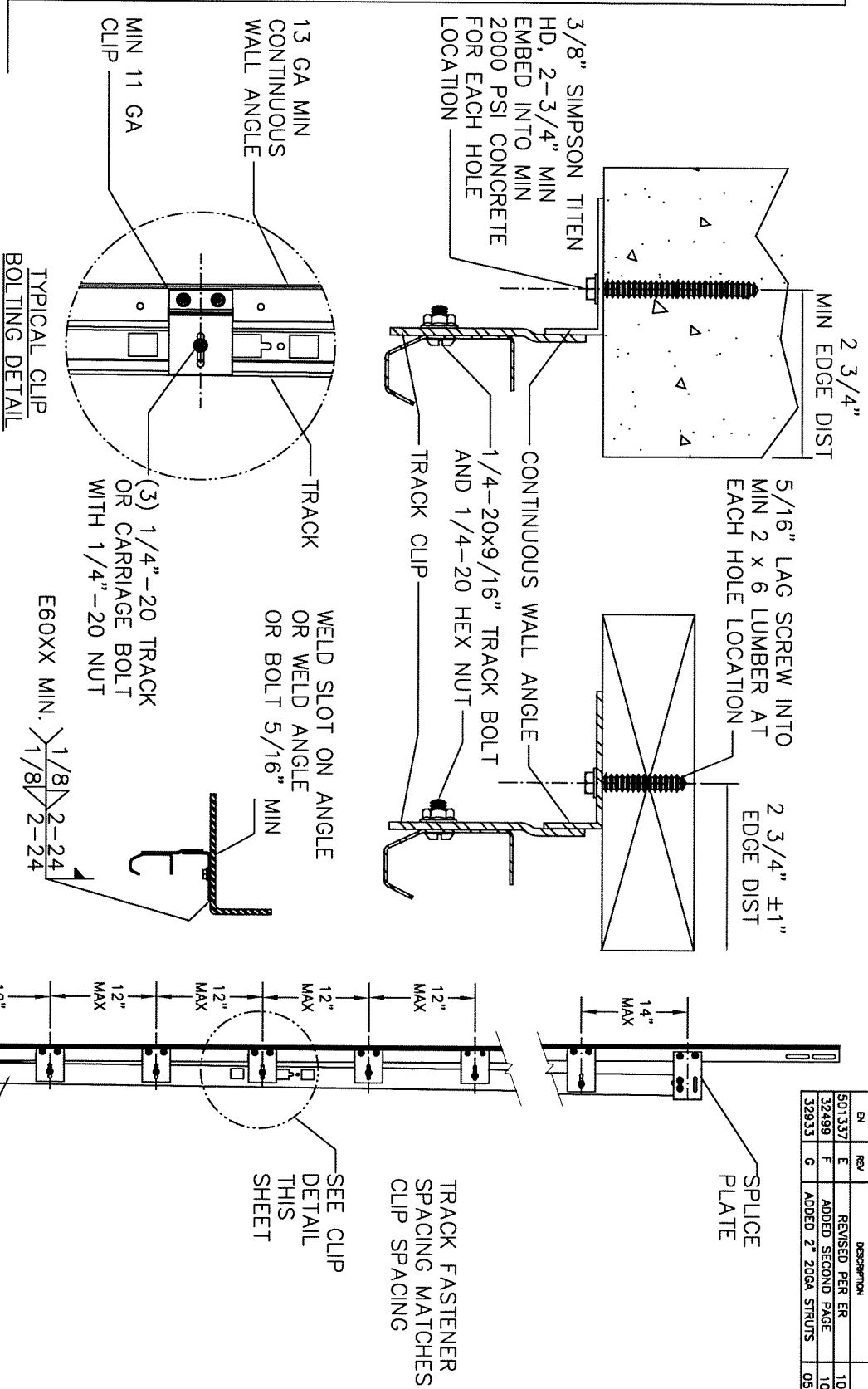
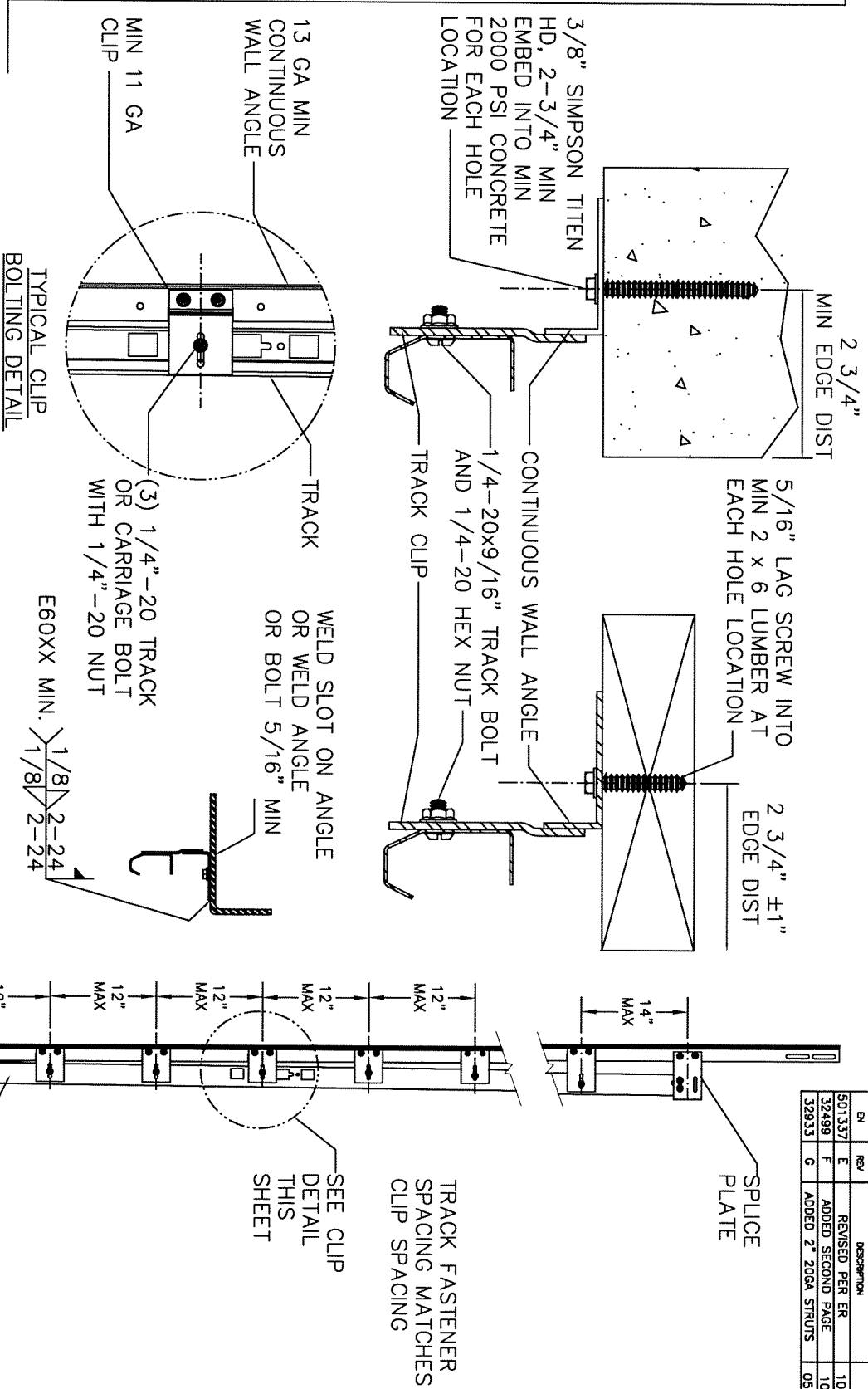
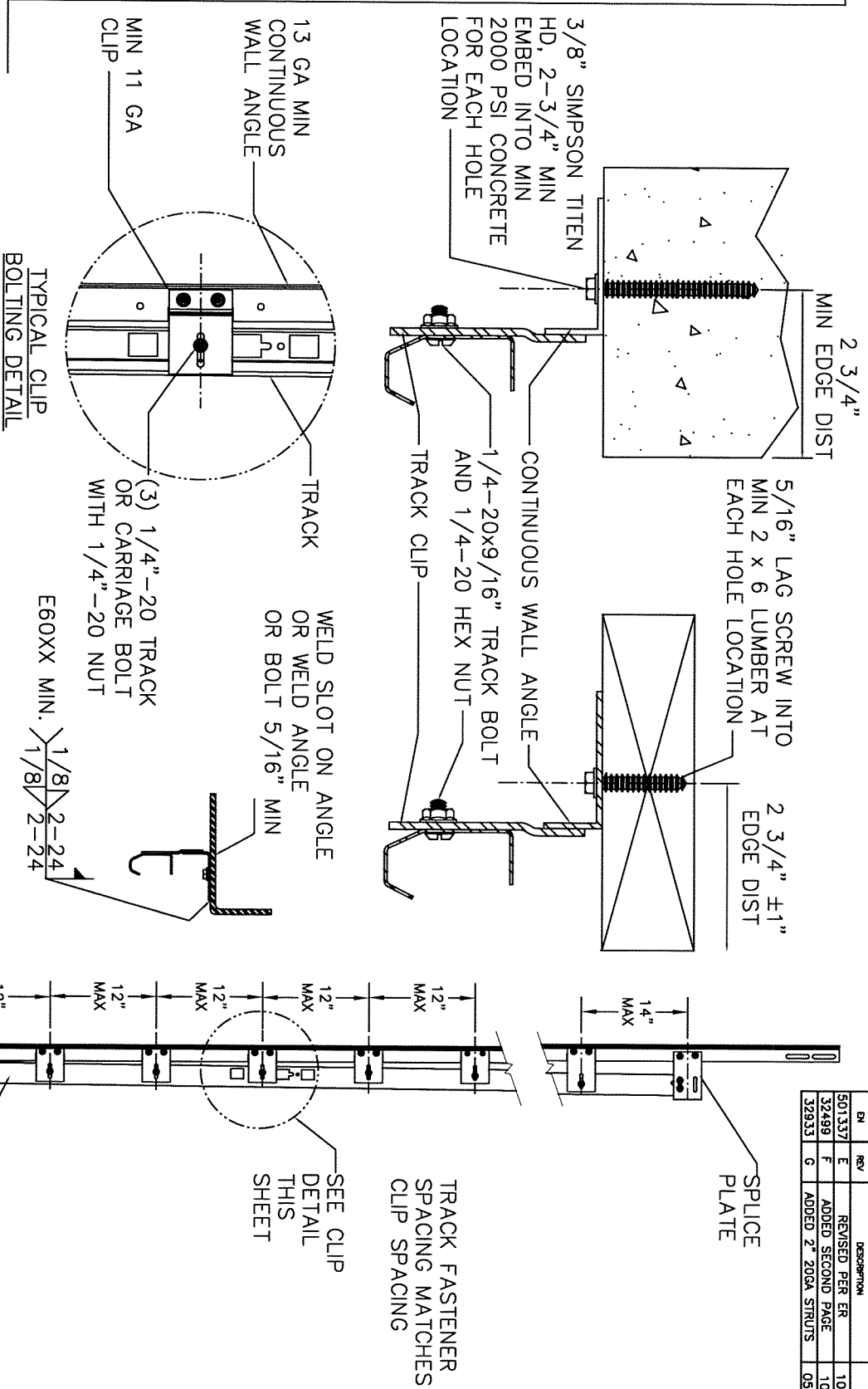
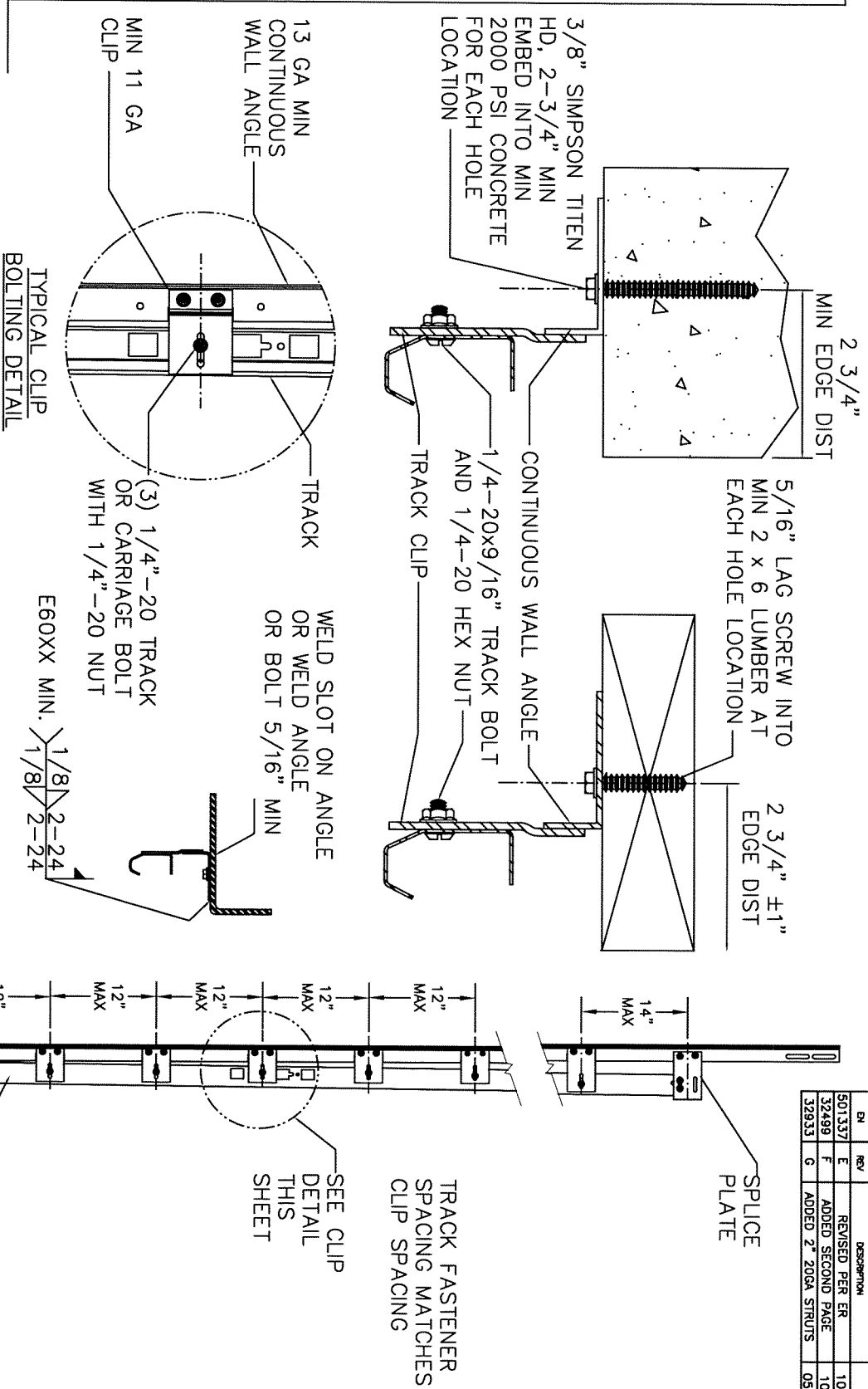
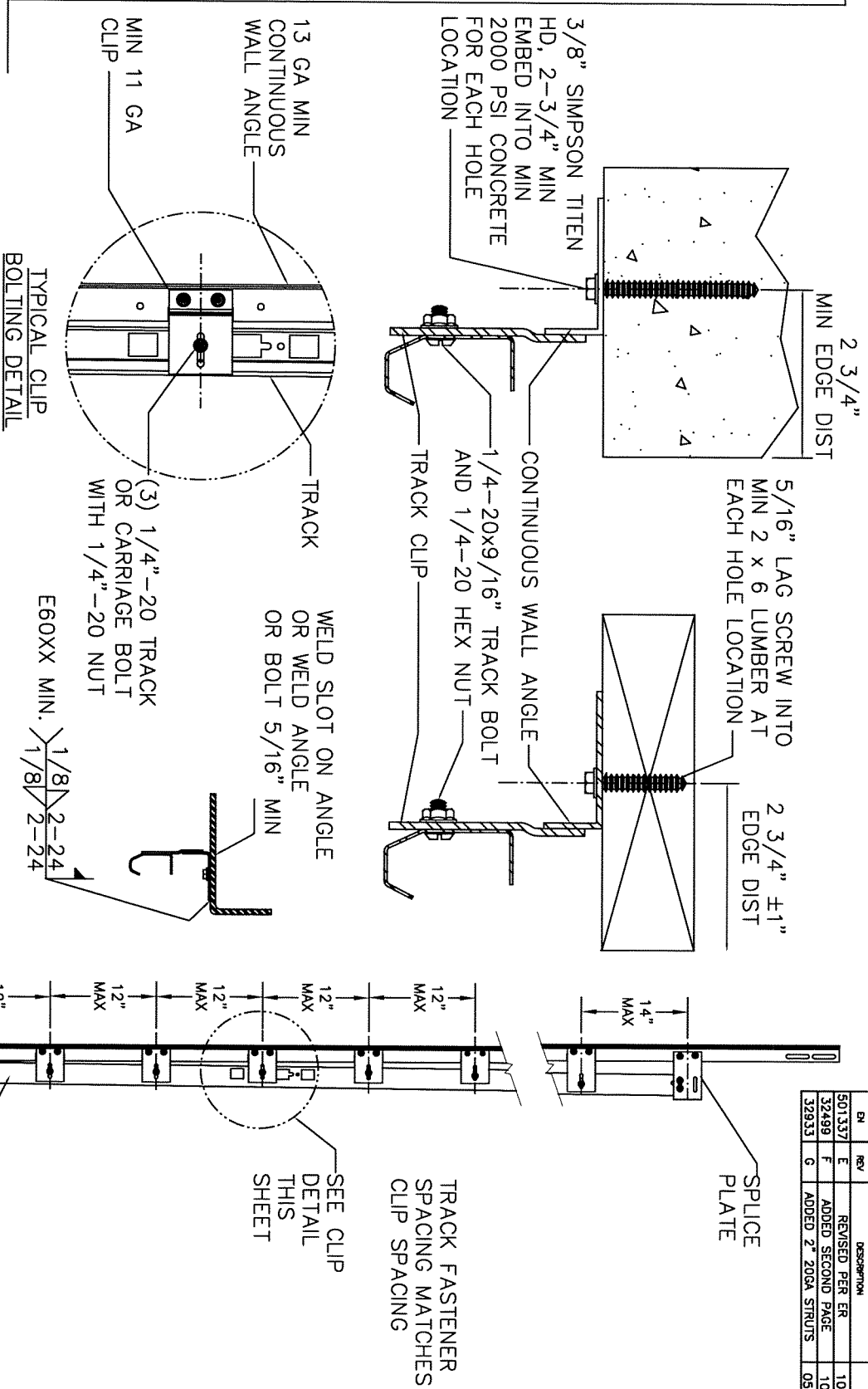
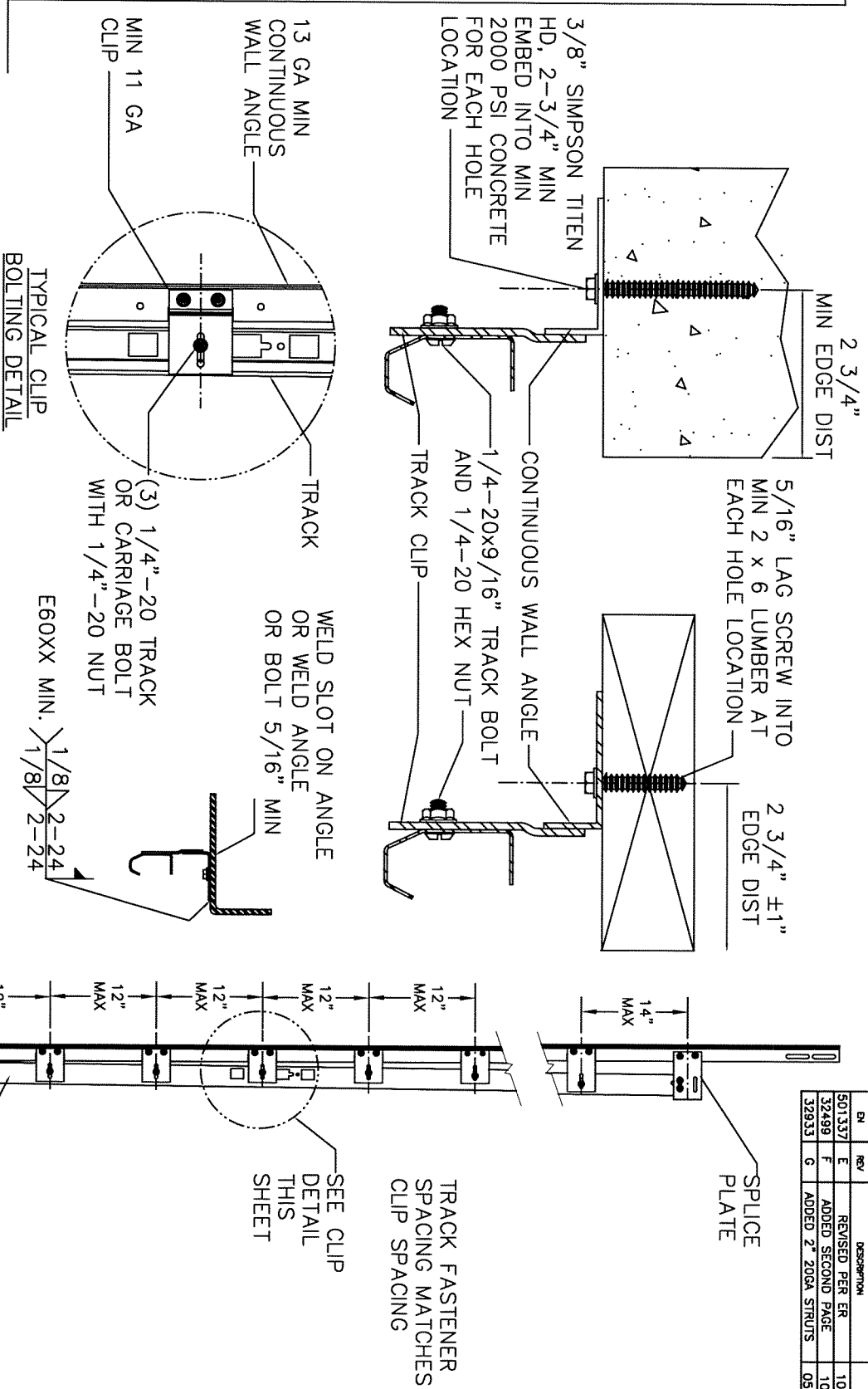
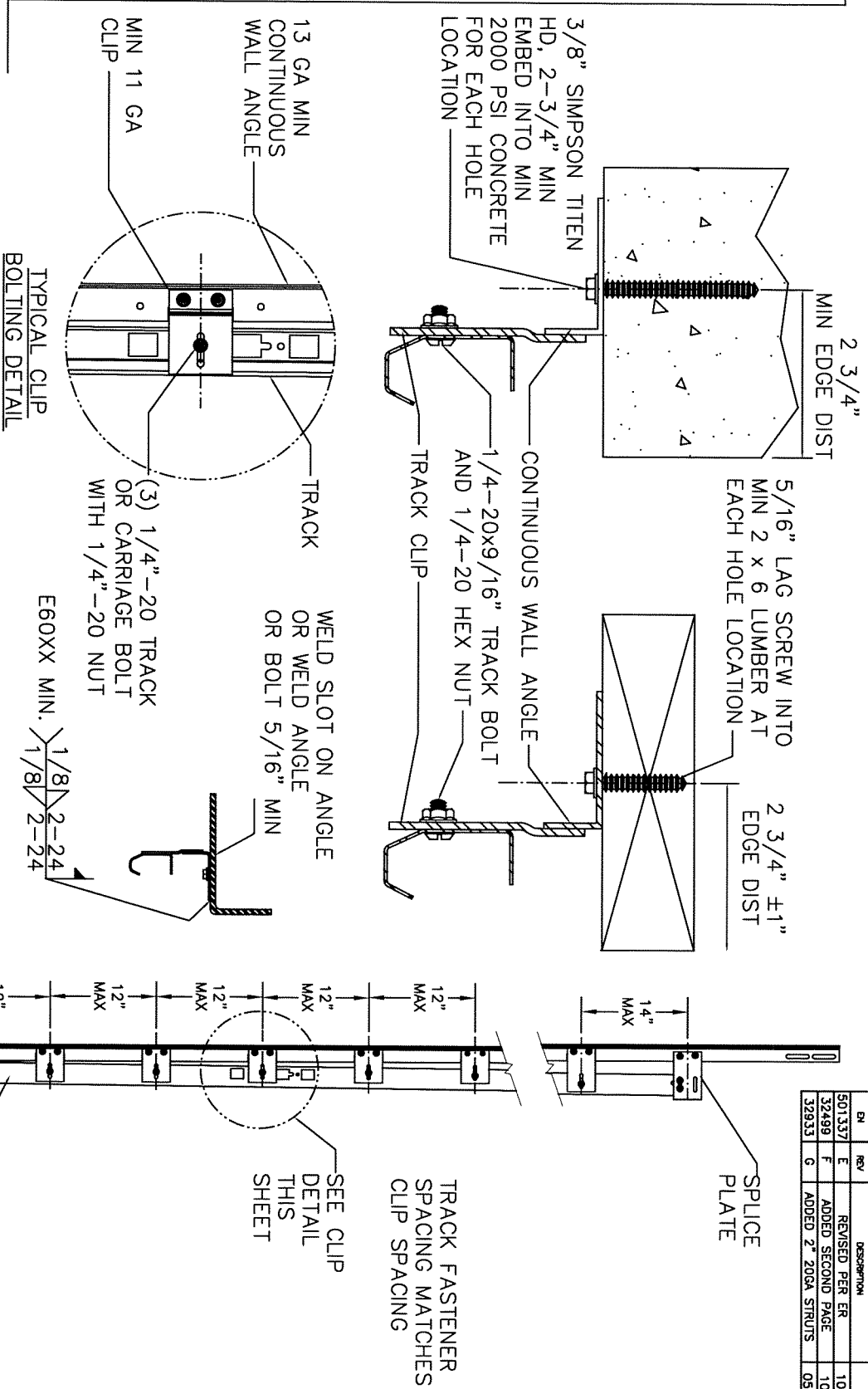
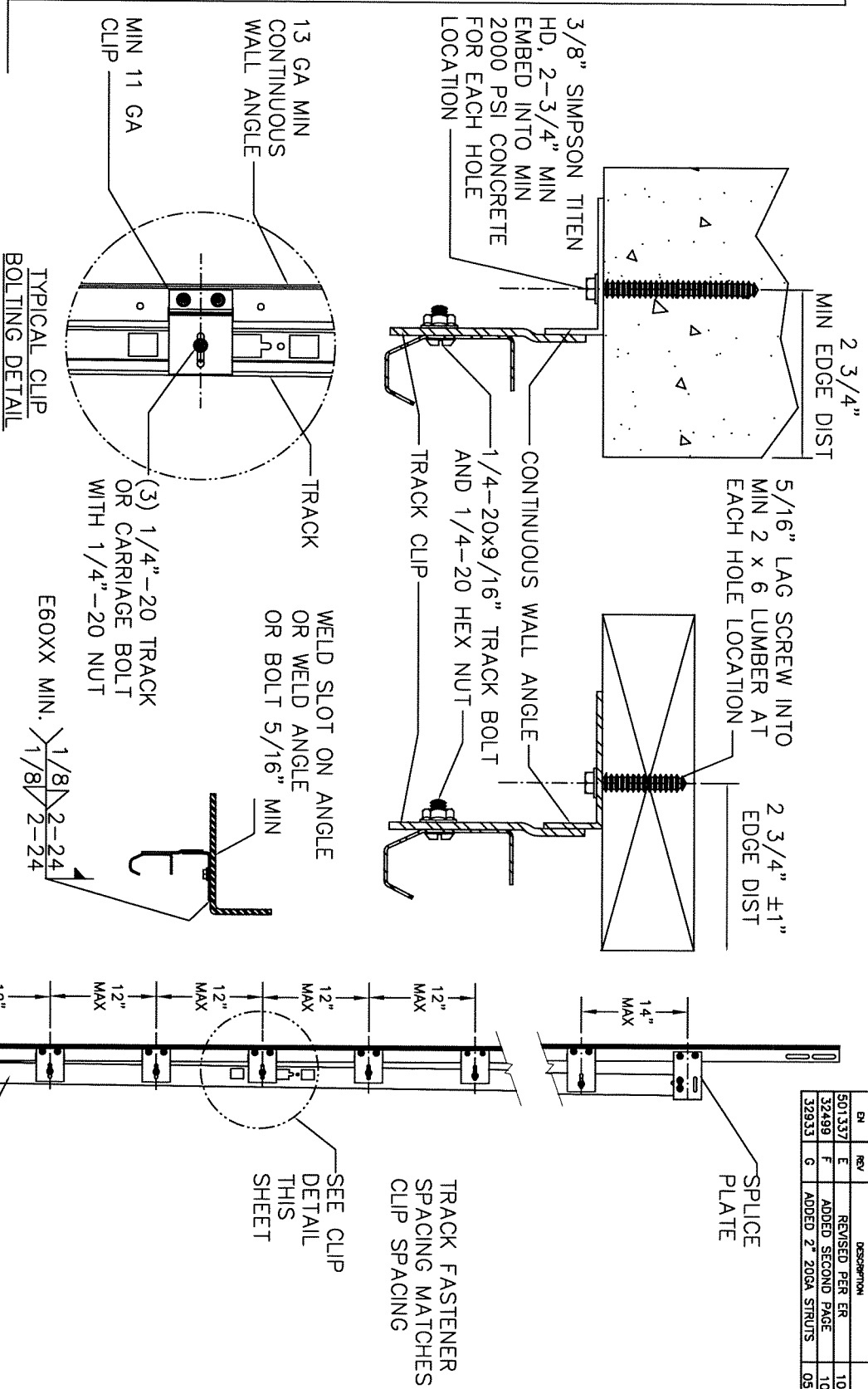
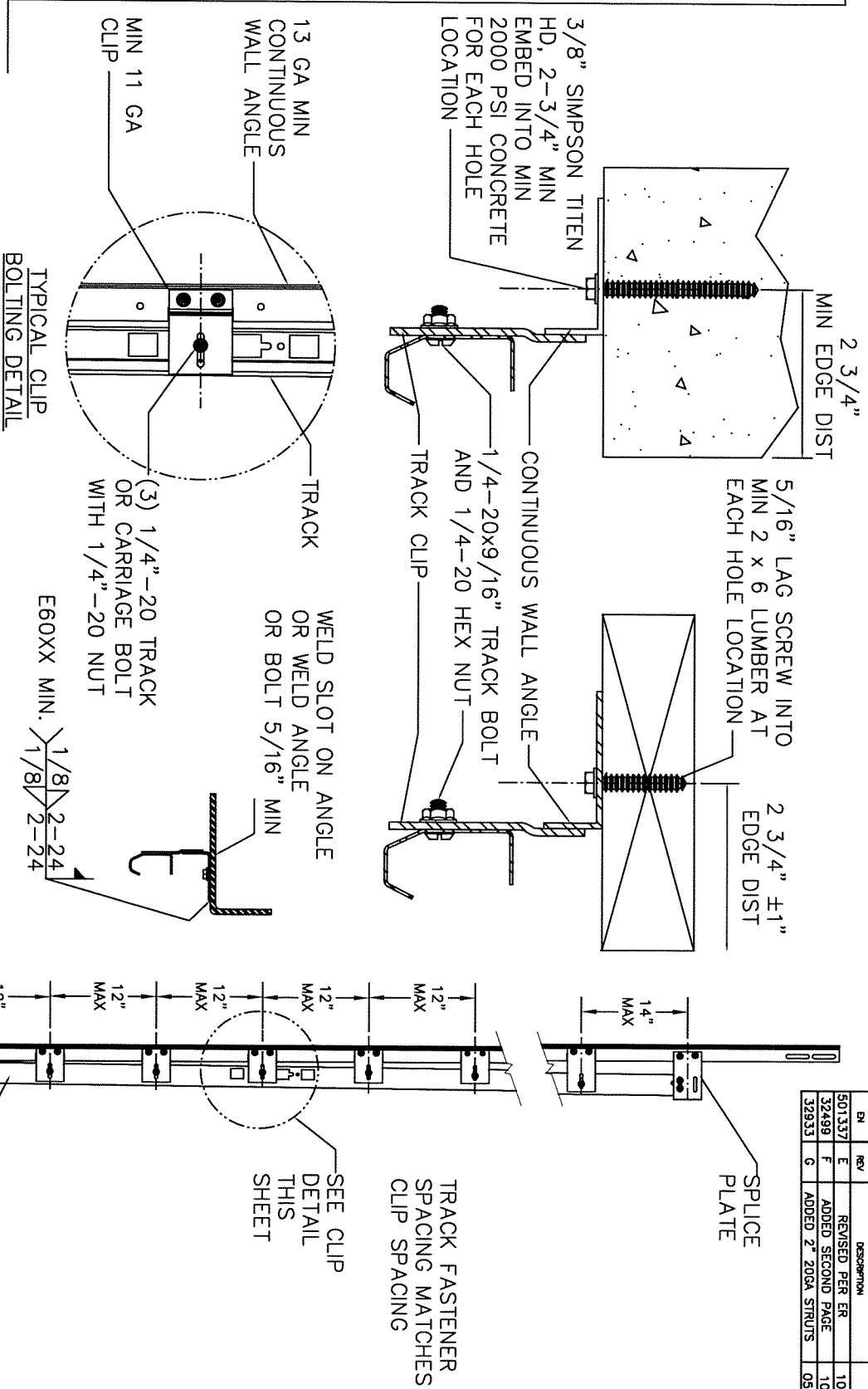
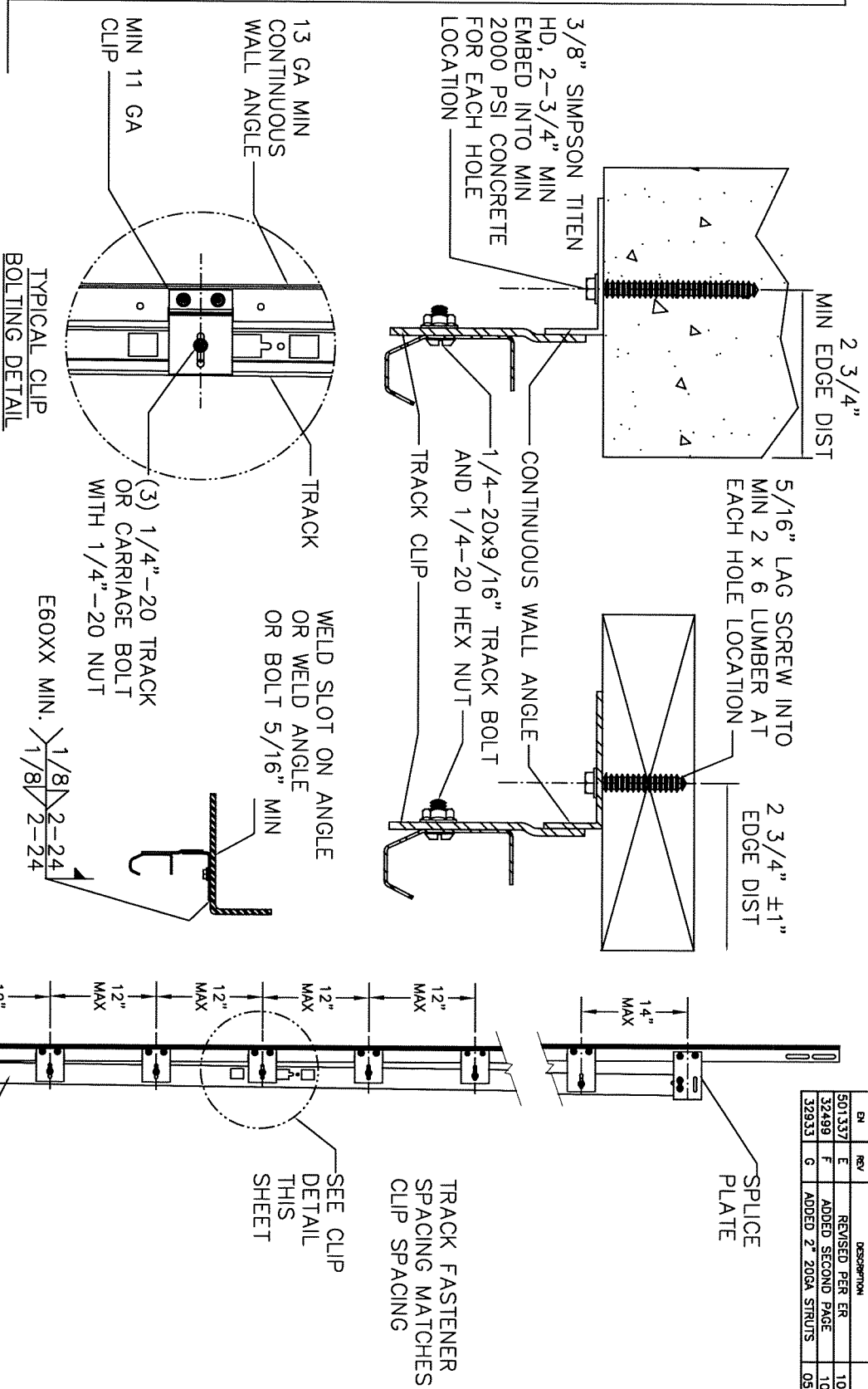
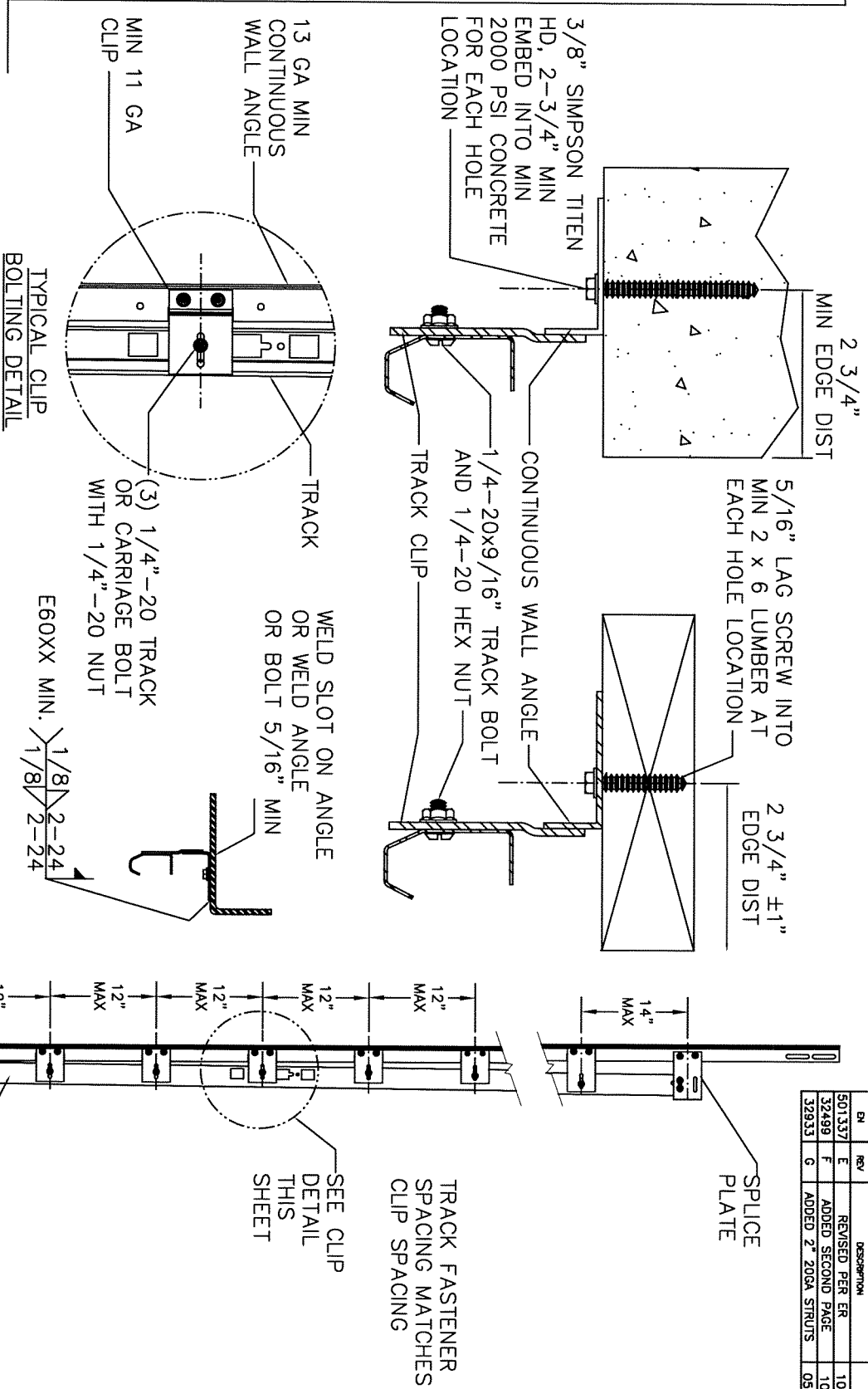
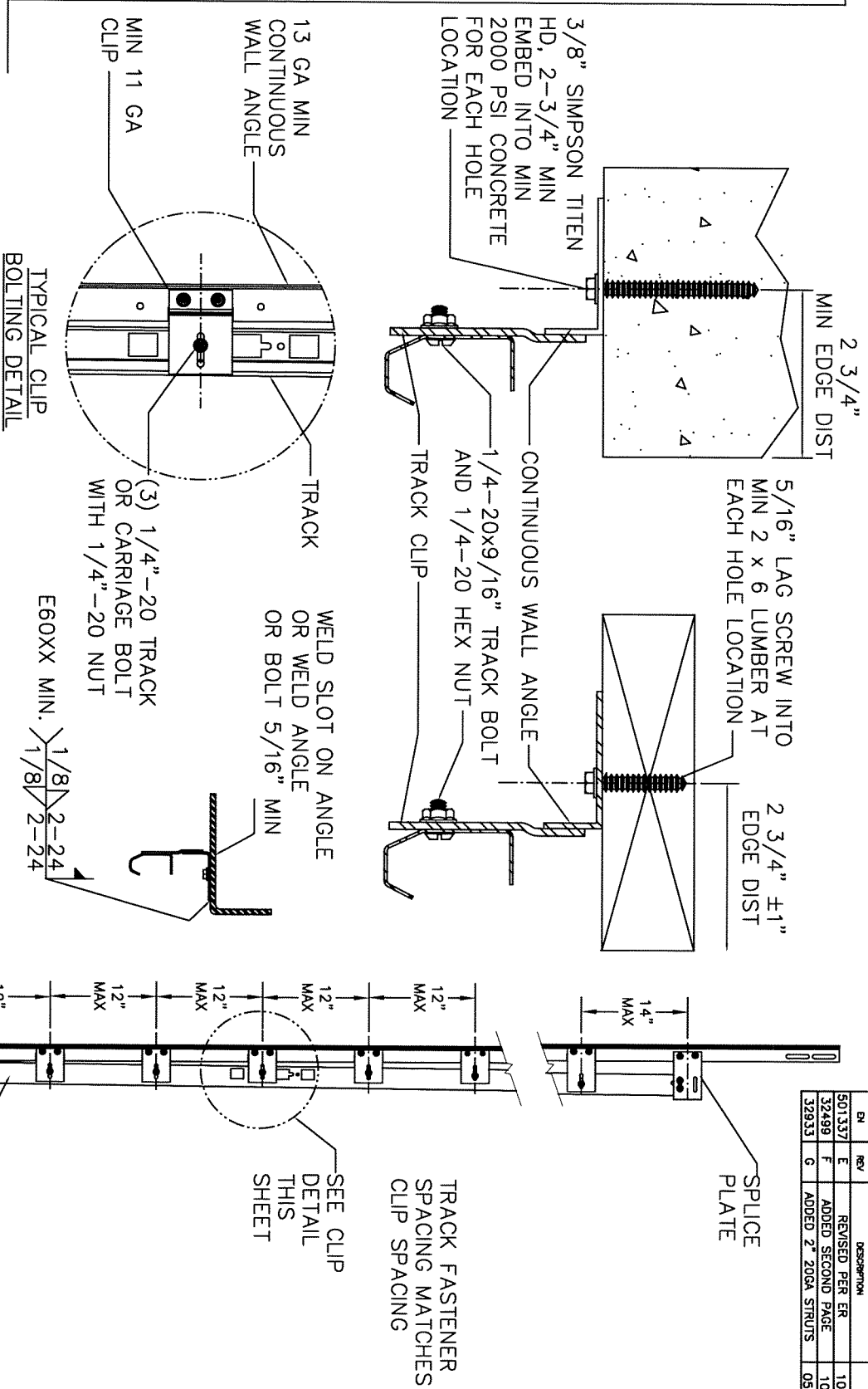
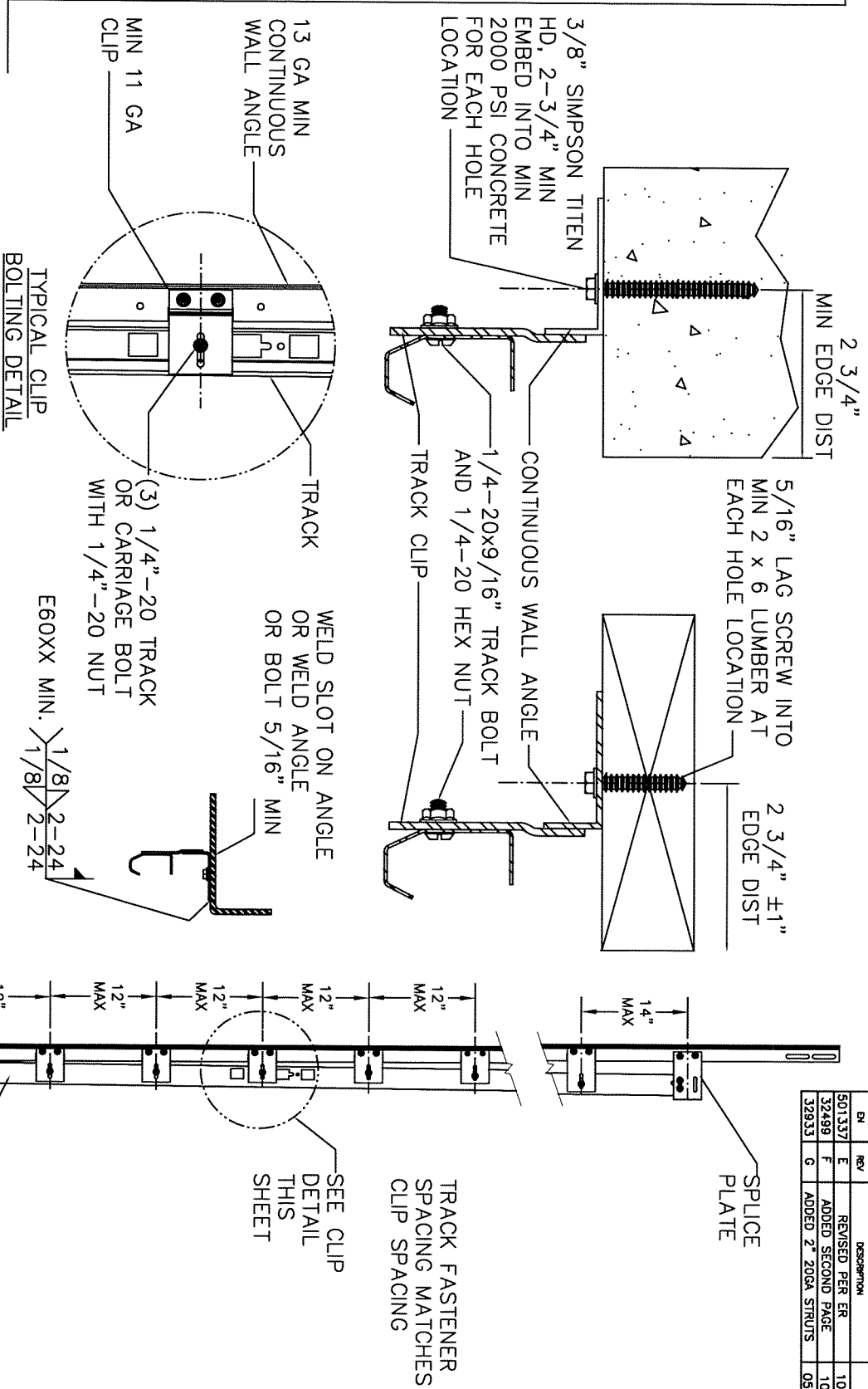
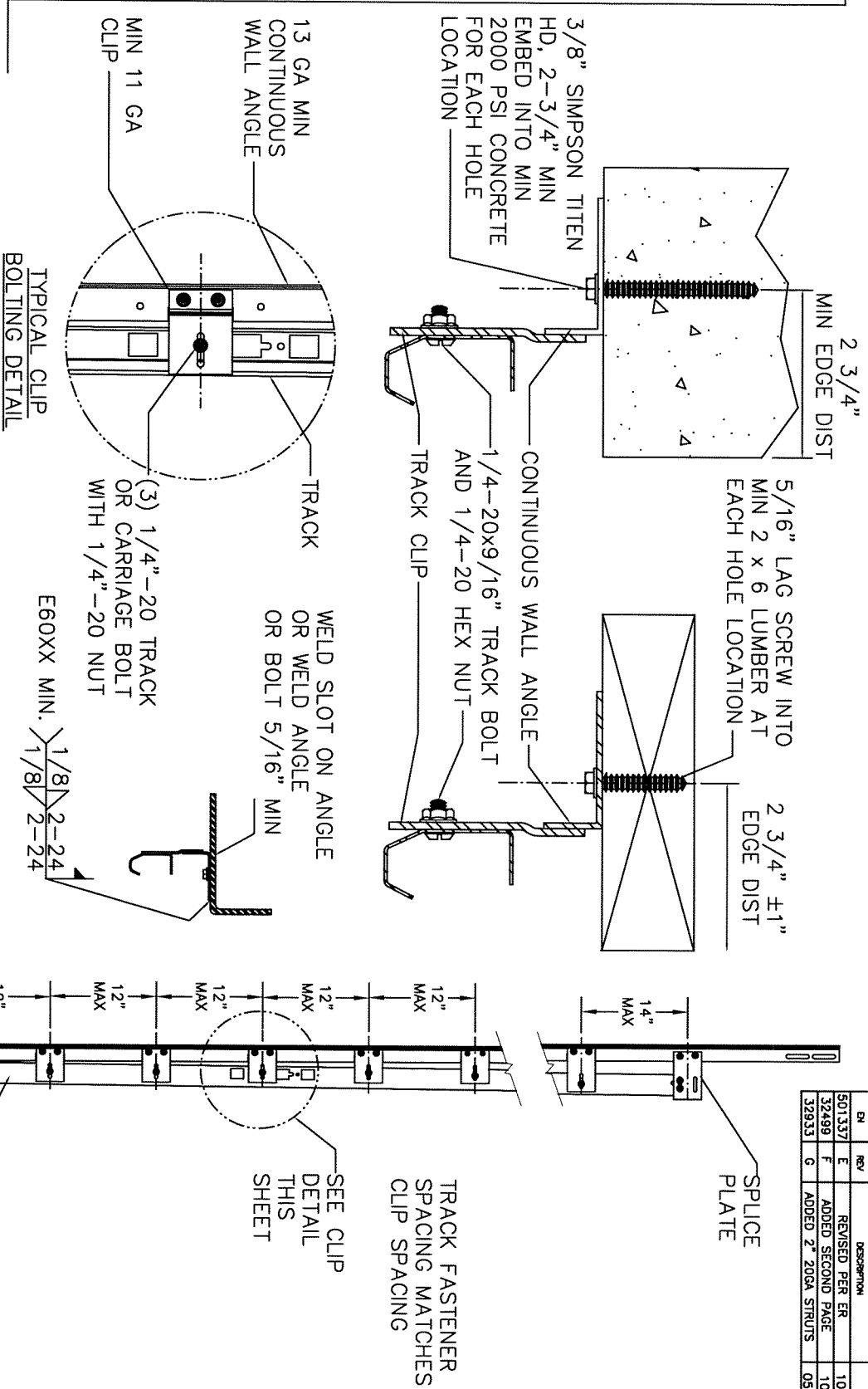
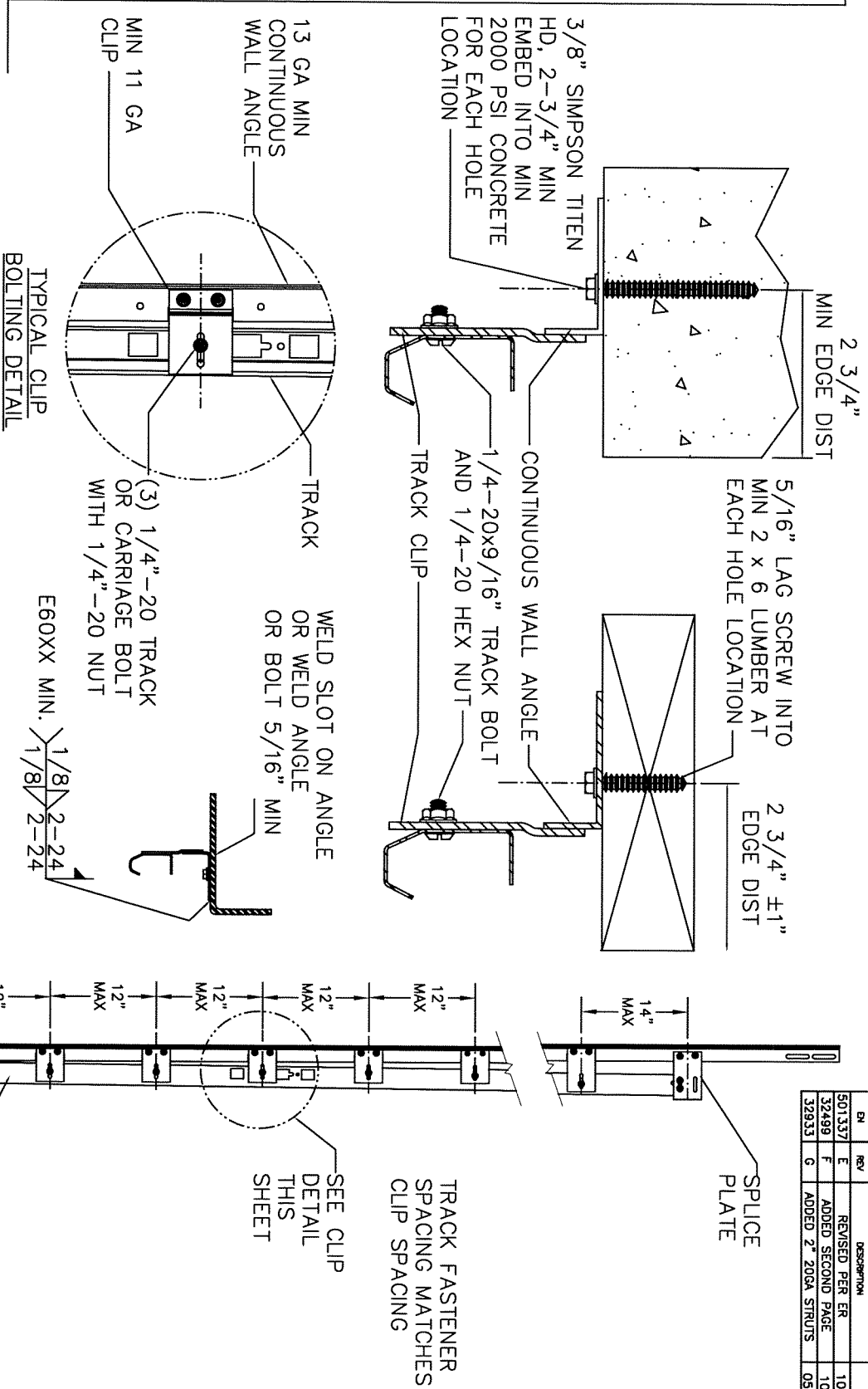
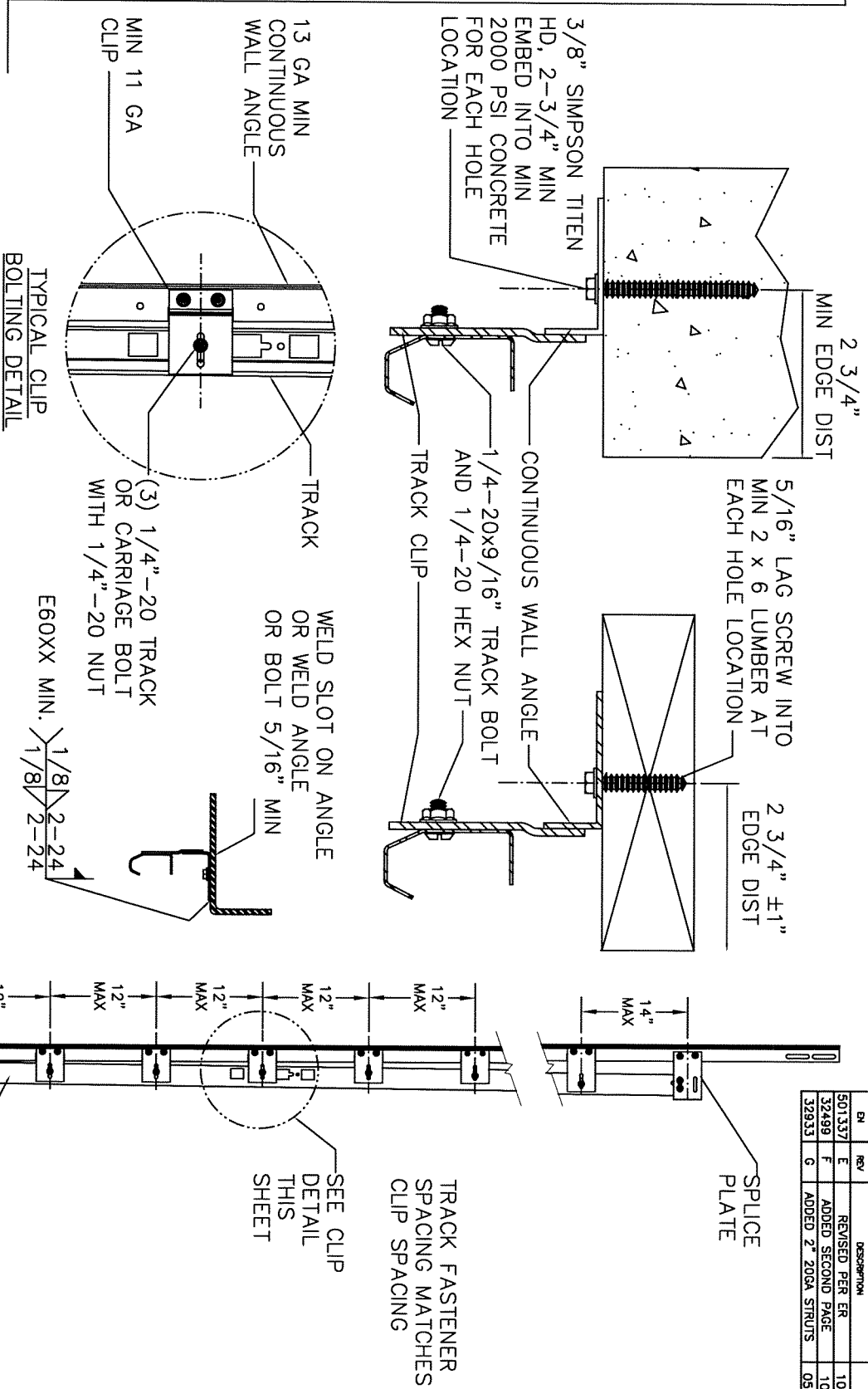
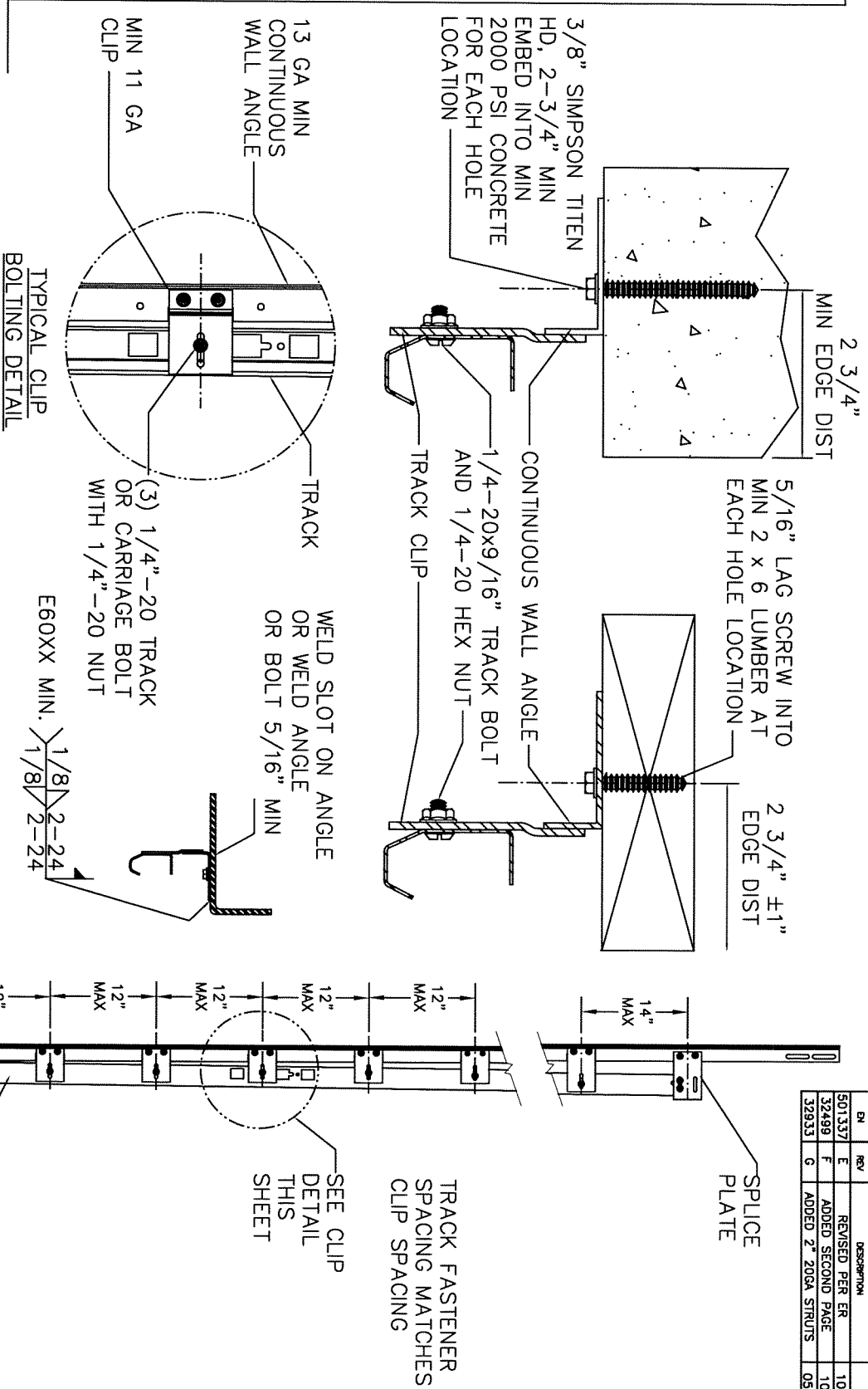
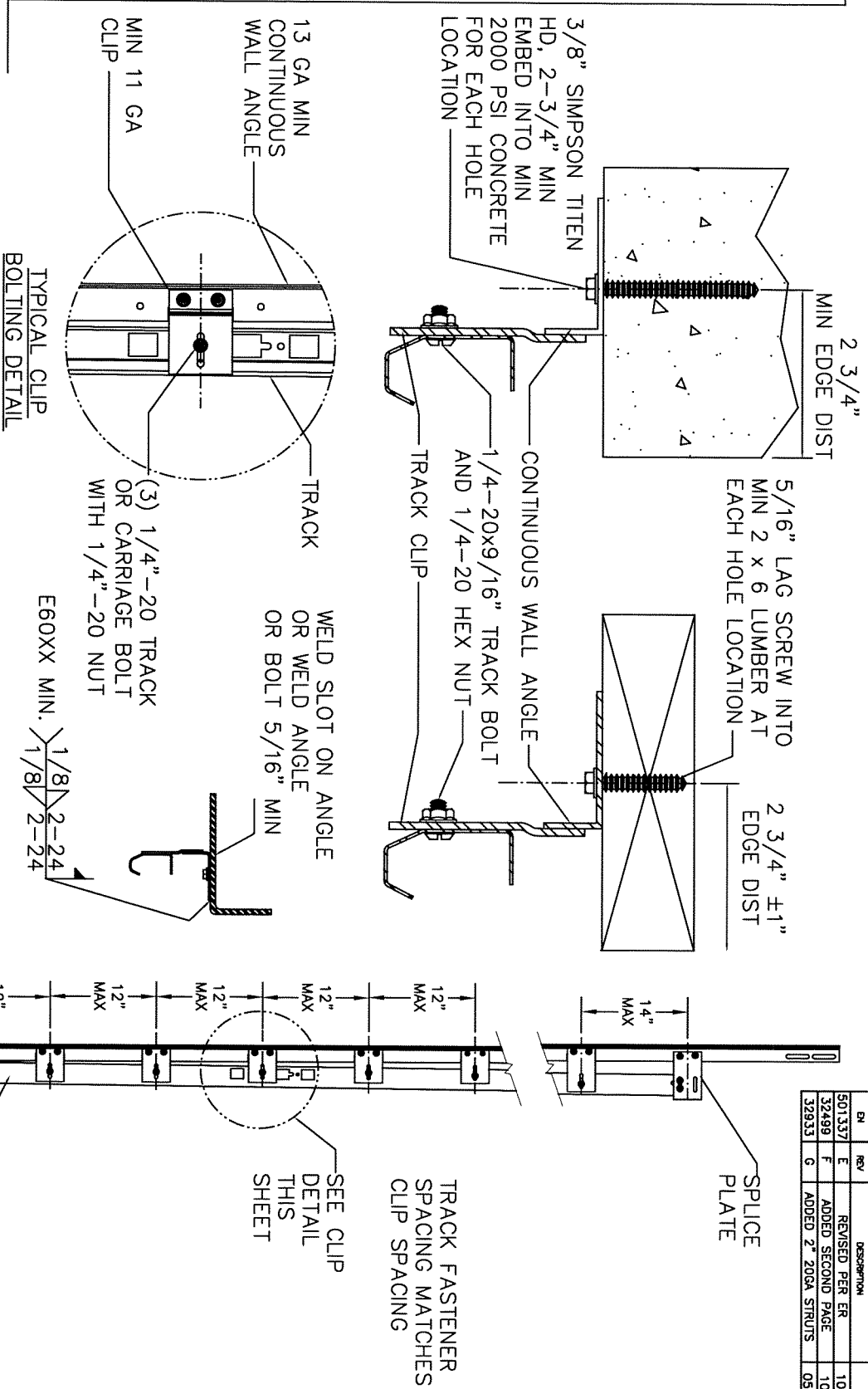
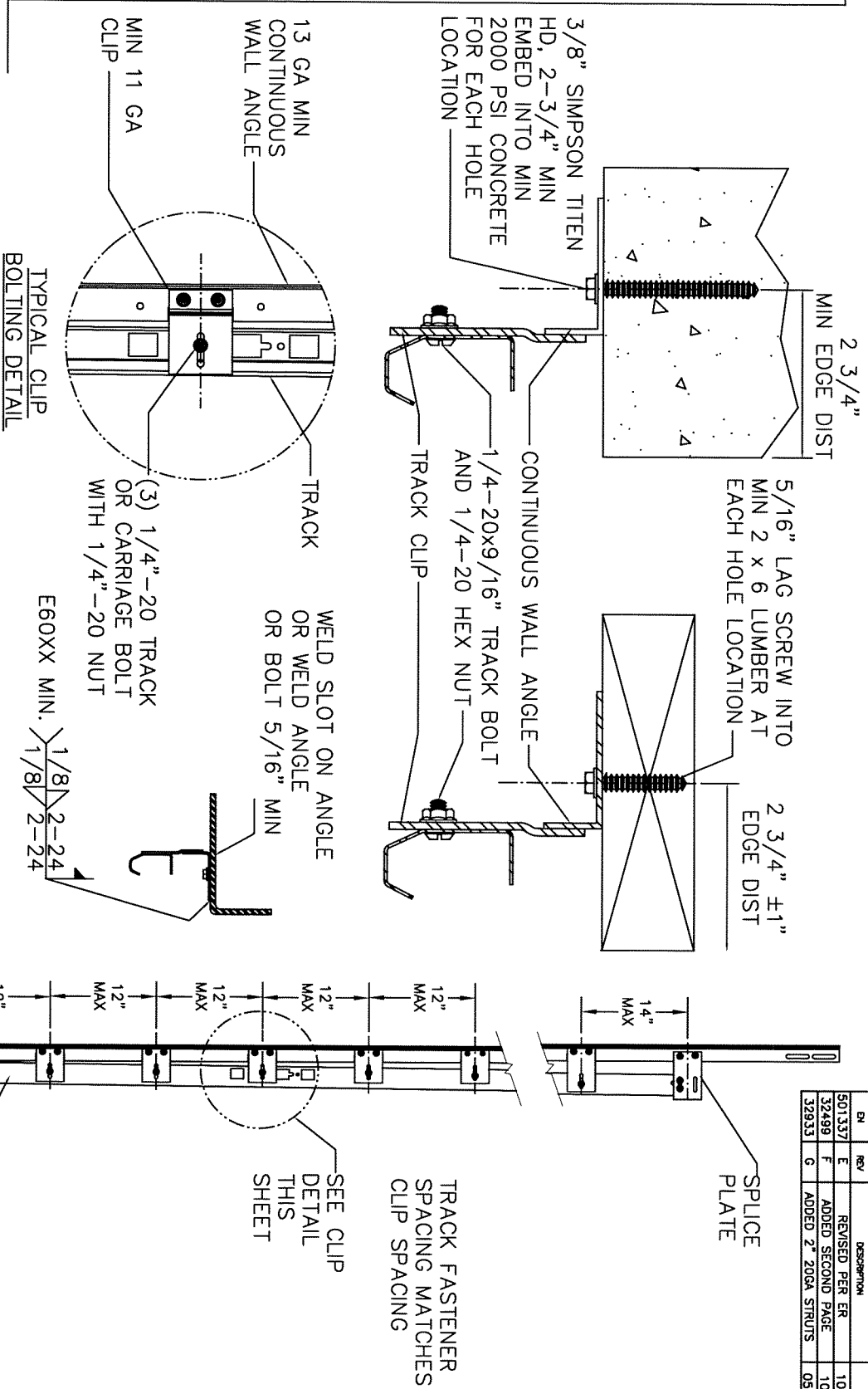
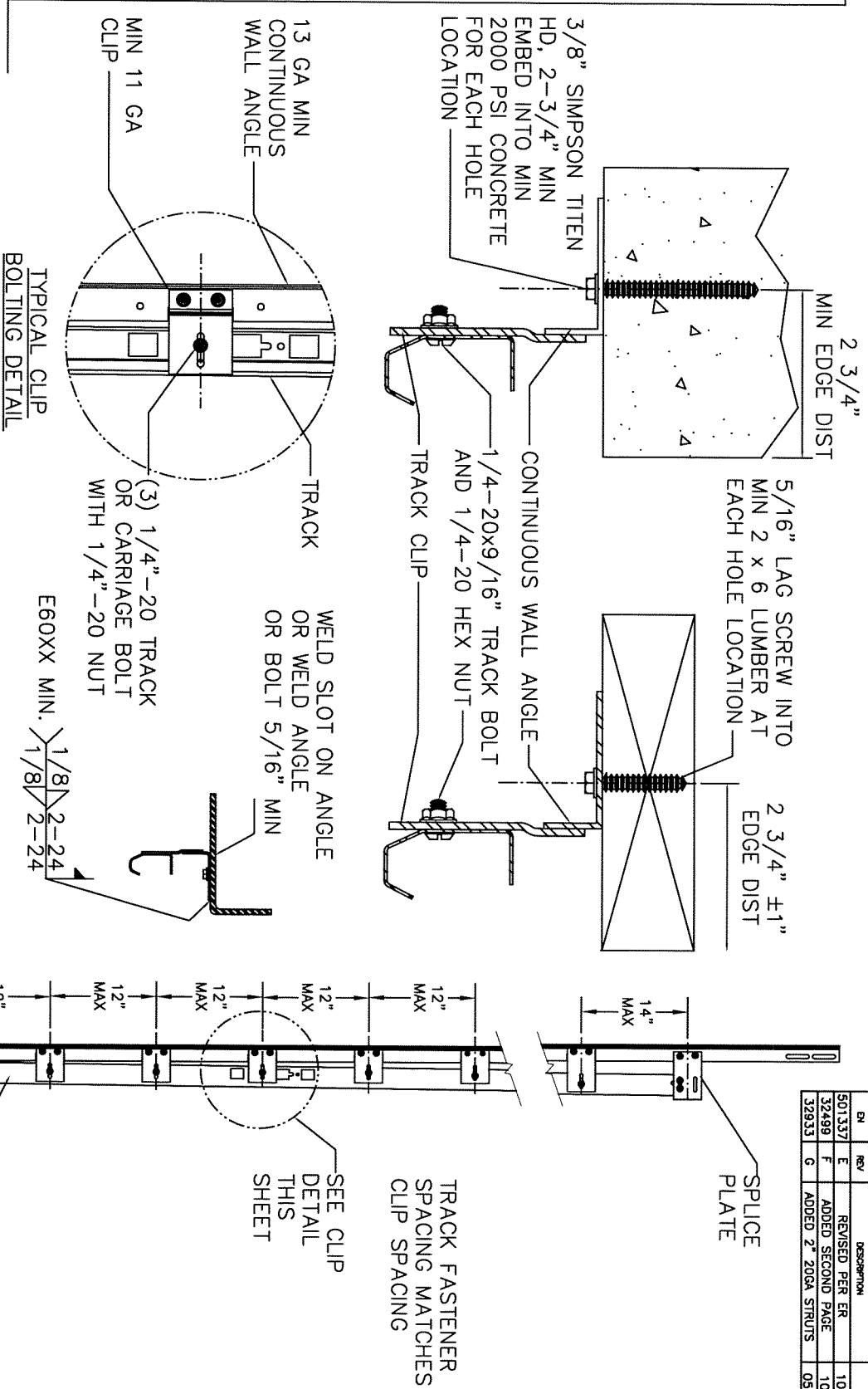
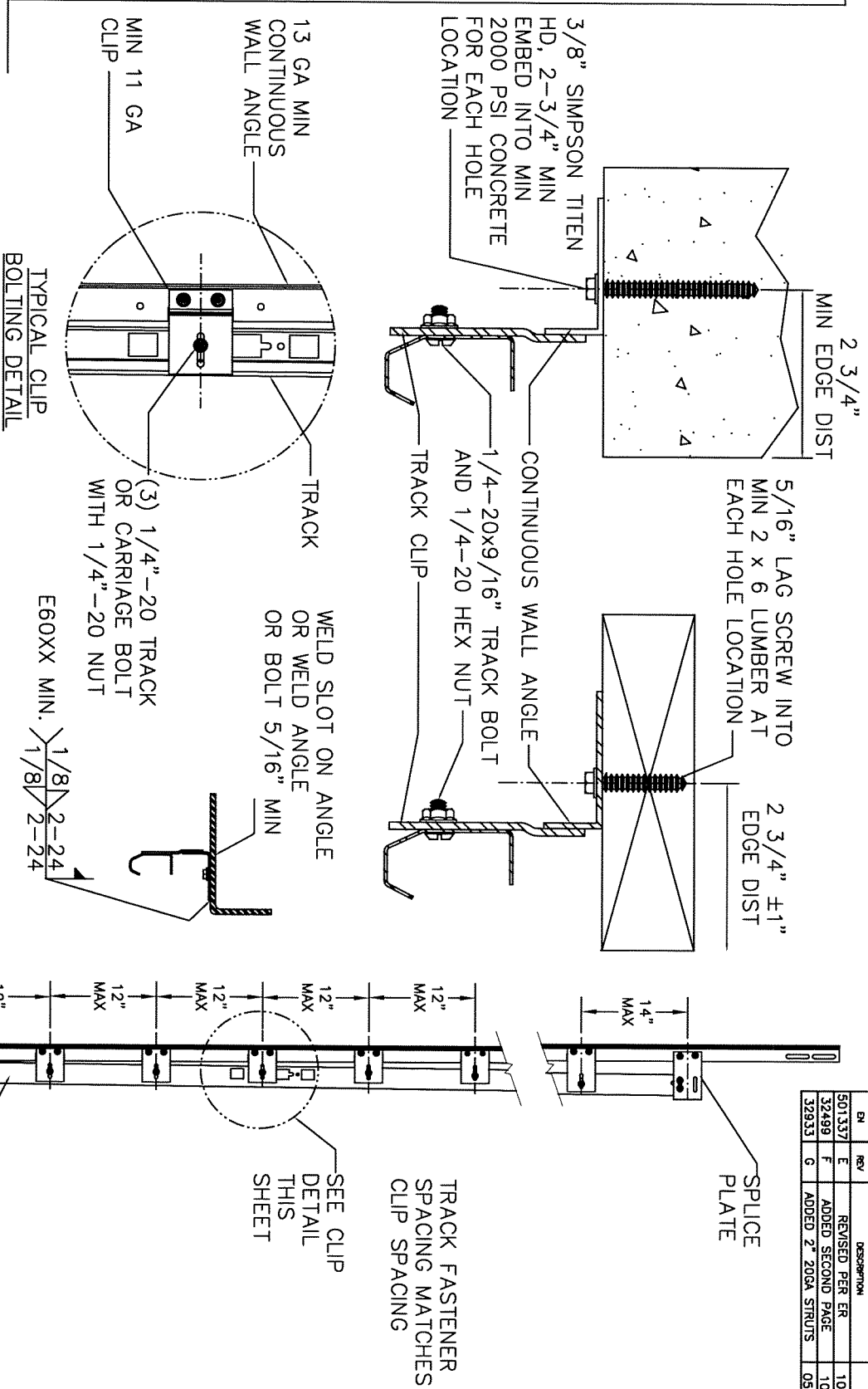
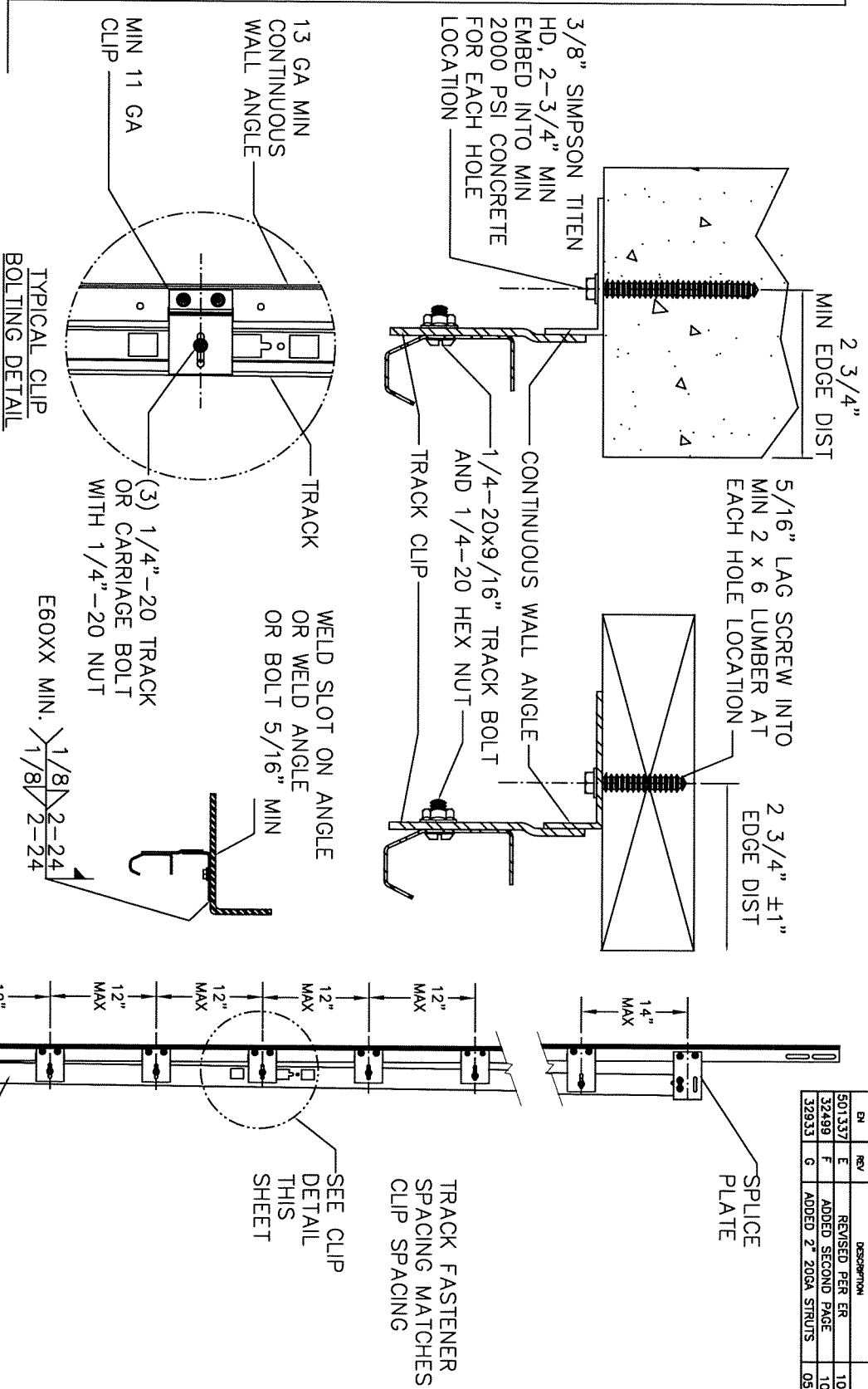
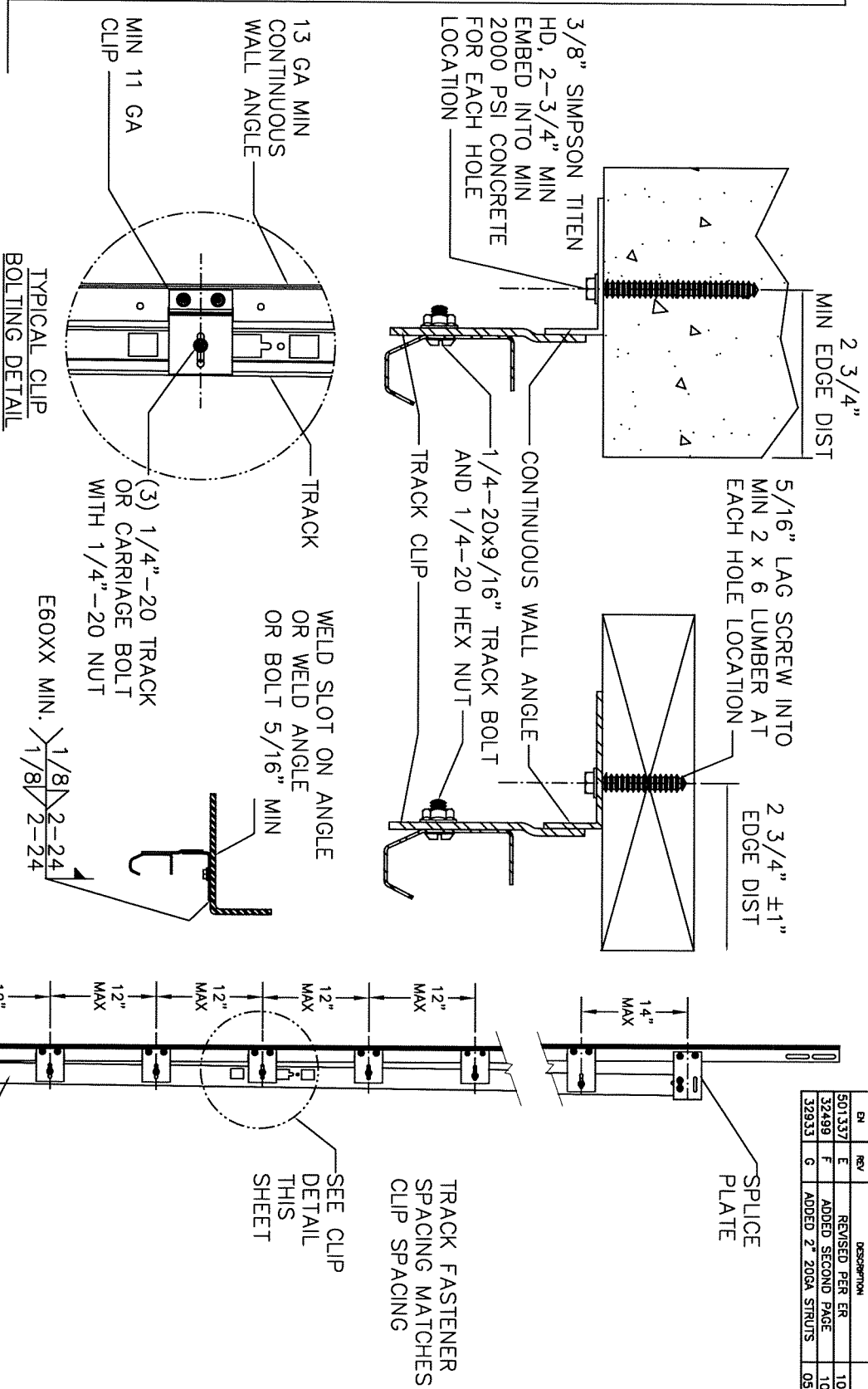
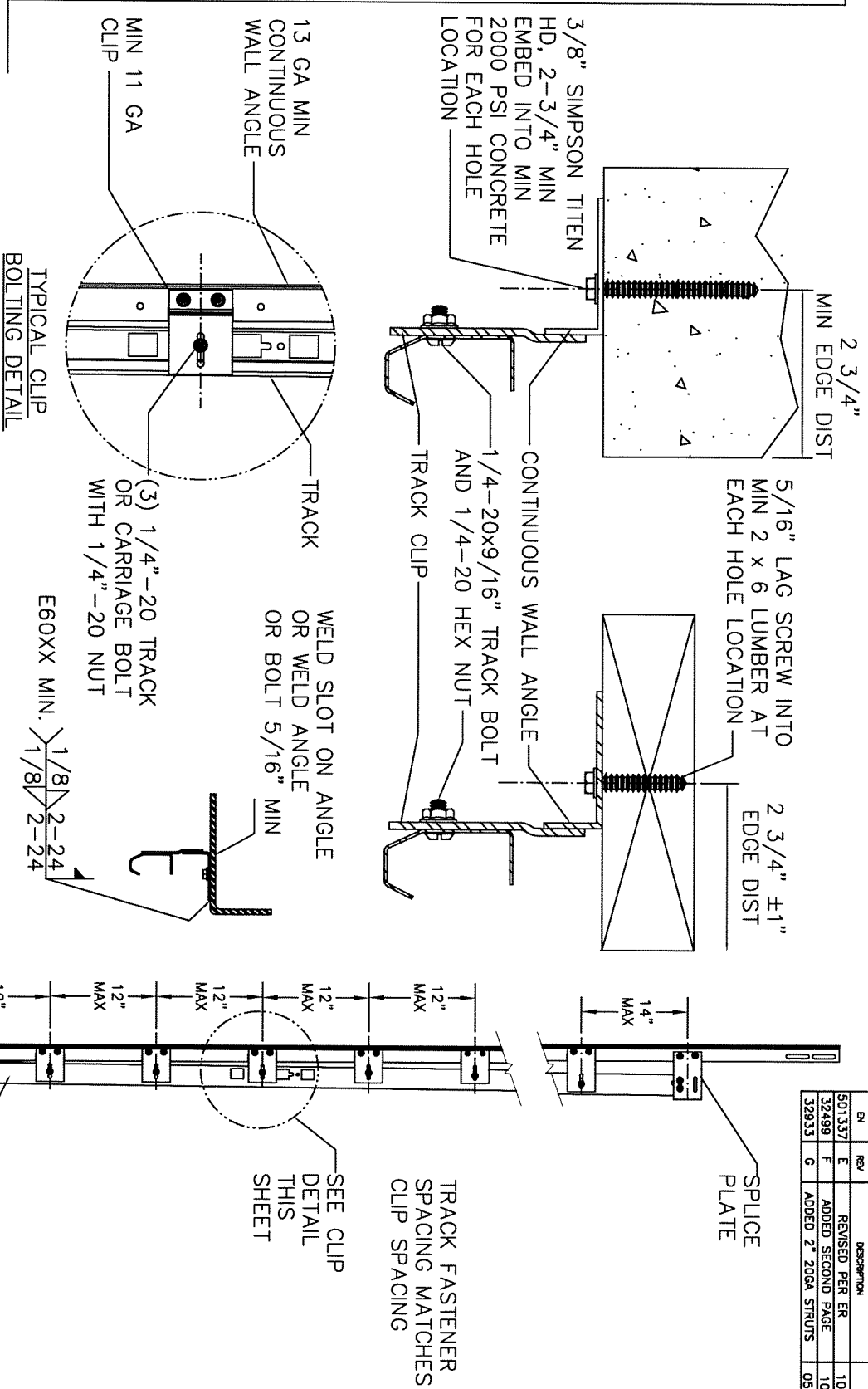
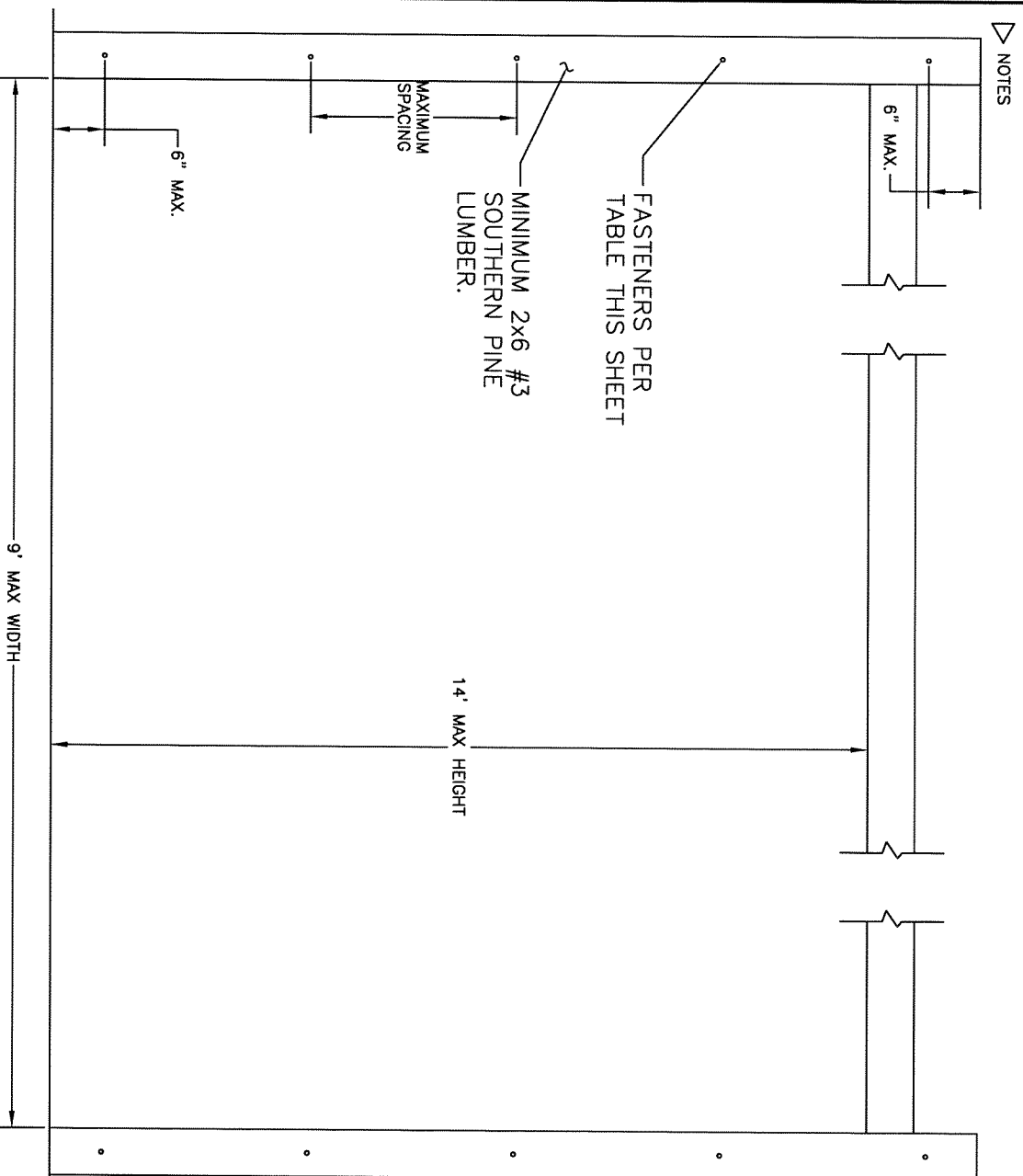
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DATE: 08/14/03
CHECKED BY: T. CLARK
APPROVED BY: L. KRUPKE

SCALE: N/A

SHEET 1 OF 2

REVISIONS				
EN	REV	DESCRIPTION	DATE	APPROVAL
501337	E	REVISED PER ER	10/12/11	SFT
32498	F	ADDED SECOND PAGE	10/6/20	TLC
32933	G	ADDED 2" 2004 STRUTS	05/05/25	MADAW



MAX SPACING OF ANCHORS/SCREWS PER JAMB (IN)		
3/8" SIMPSON TITEN HD SCREW ANCHOR TO MINIMUM 2000 PSI CONCRETE ^{NOTE 1}	3/8" SIMPSON TITEN HD SCREW ANCHOR TO MINIMUM 2000 PSI GROUT FILLED CMU ^{NOTE 2}	3/8" X 3" LONG LAG SCREW ^{NOTE 3}
24	16	24

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REF DWG		USED ON		AGE 114.00 AND 114.5 SPECIAL INSTRUCTIONS: IN U.S. CUSTOMARY UNITS		TELEVISIONS UNLESS OTHERWISE SPECIFIED		WHOLE NUMBERS:	
				XX XX XX ANGLES: HOLE		± .25 X ± .1 ± .03 ± .010 ± .5		FINISH N/A	
				UNIT OF MEASURE EA		DATE'S 1985		NAME	
				MATERIAL: N/A		DATE'S 1985		DATE	
				CHECKED BY: T CLARK		DATE'S 1985		DATE	
				APPROVED BY: L KRUPKE		DATE'S 1985		DATE	
				SCALE: N/A		SHED 2 OF 2		DRAWING NUMBER: D-410155	
				WINDLOAD: 416/418, 26/-26 PSF, 24'-2" MAX		DATE'S 1985		DATE	