COST SUMMARY

Project:	HIDDEN FOR PRIVACY
Address:	HIDDEN FOR PRIVACY
Scope:	METAL
Date:	-

Website: www.alfasquareestimationa.com
Email: info@alfasquareestimations.com
Contact +17-869-476685

ALPHA SQUARE
ESTIMATIONS

	CSI DIV.	DESCRIPTION	TOTAL TRADE COST	REMARKS		
	DIV. 01	GENERAL REQUIREMENTS	$ -			
	DIV. 05	METAL	$ -			
		SUBTOTAL	$ -			
		OVERHEAD & PROFIT - 15%	$ -			
		TOTAL BID	$ -			
		EXCLUSIONS				
		ALL ITEMS NOT MENTIONED ABOVE ARE EXCLUDED				

Estimate of Materials and Cost of Construction

Project: HIDDEN FOR PRIVACY
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SR #	REF. SHEET	DETAIL SHEET	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT MANHOURS	MANHOUR RATE	UNIT LABOR RATE	TOTAL LABOR COST	UNIT MATERIAL	TOTAL MATERIAL COST	UNIT ITEM COST	TOTALCOST
		DIV. 01	GENERAL REQUIREMENTS												
1			Permits Documentation And Fees	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
2			Hazardous Waste Or Disposal Work	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
3			Owner Purchased, Contractor Installed Items	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
3			Contractors Use Of New And Existing Facilities	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
4			Correction Of Unsatisfactory Conditions	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
4			Restoration Of Unit Damaged During Installation	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
5			Replacement Of Units Which Cannot Be Restored	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
5			Maintaining Existing Construction In Weather High Conditions	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
6			Signage	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
6			Supervisory Personnel	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7			Temporary Services	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
7			Water	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
8			Lighting And Power	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
8			Toilet Facilities	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
9			Material Storage	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
10			Contractor's Safety Program	1	0%	1	LS	0.00	$ -	$ -	$ -	$ -	$ -	$ -	
			SUBTOTAL												$ -
		DIV. 05	METAL												
			1ST FLOOR												
			COLUMNS	15'-0" H											
11			HSS4X2X3/16, 18 EA	1831	10%	2014	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
12			HSS4X4X1/4, 9 EA	1648	10%	1813	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
13			HSS4X4X3/16, 29 EA	4098	10%	4507	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
14			HSS5X5X1/2, 1 EA	426	10%	469	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15			HSS5X5X1/4, 1 EA	234	10%	258	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
16			HSS5X5X3/16, 49 EA	8798	10%	9678	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
17			HSS5X5X5/16, 1 EA	286	10%	315	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
18			HSS6X6X1/2, 3 EA	1586	10%	1744	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
19			HSS6X6X1/4, 15 EA	4280	10%	4707	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20			HSS6x6x3/8, 27 EA	11129	10%	12242	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
21			HSS6X6X3/16, 54 EA	11769	10%	12946	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
22			HSS7X7X1/4, 12 EA	4034	10%	4437	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
23			HSS7X7X3/8, 6 EA	2932	10%	3225	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
24			HSS7X7X3/16, 9 EA	2306	10%	2536	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25			HSS7X7X5/16, 11 EA	4552	10%	5008	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
26			HSS9X9X3/8, 2 EA	1284	10%	1412	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			2ND FLOOR FRAMING												
			METAL DECK												
27			1-1/2" DP x 20GA (B) Metal Deck	19043	10%	20948	SF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
28			2" DPx 20GA (W2) Metal Deck	55023	10%	60525	SF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			METAL JOIST												
29			24k @ 7'-10" O.C.	148	10%	163	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
30			24LH @ 4'-0" O.C.	260	10%	286	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
31			28LH @ 6'-0" O.C.	1352	10%	1487	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
32			32LH @ 7'-0" O.C.	344	10%	379	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			HSS BEAMS												
33			HSS4X4X1/4, (119.6 LF)	1460	10%	1606	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
34			HSS6X4X3/16, (44.22 LF)	529	10%	582	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
35			HSS8X4X1/4, (85.13 LF)	784	10%	862	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			ANGEL SECTION												
36			L4X4X1/4, (328.76 LF)	2170	10%	2387	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
37			L5X5X5/16, (69.28 LF)	514	10%	565	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			METAL BEAMS												
38			W8X10, (344.3 LF)	3443	10%	3787	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
39			W8X31, (13.88 LF)	430	10%	473	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
40			W10X12, (836.49 LF)	10038	10%	11042	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
41			W10X19, (31.66 LF)	602	10%	662	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
42			W10X22, (60.33 LF)	1327	10%	1460	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
43			W12X14, (90.7 LF)	1270	10%	1397	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
44			W12X16, (501.96 LF)	8031	10%	8834	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
45			W12X19, (610.58 LF)	11601	10%	12761	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
46			W12X30, (140.57 LF)	4217	10%	4639	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
47			W14X22, (1320.54 LF)	29052	10%	31957	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
48			W14X26, (1853.32 LF)	48186	10%	53005	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
49			W14X30, (981.78 LF)	29453	10%	32399	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
50			W14X34, (358.69 LF)	12195	10%	13415	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
51			W16X26, (515.74 LF)	13409	10%	14750	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
52			W16X26, (549.6 LF)	14290	10%	15719	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
53			W16X31, (347.36 LF)	10768	10%	11845	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
54			W16X50, (125.44 LF)	6272	10%	6899	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
55			W18X35, (509.51 LF)	17833	10%	19616	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
56			W18X40, (891.84 LF)	35674	10%	39241	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
57			W18X76, (48.96 LF)	3721	10%	4093	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
58			W21X44, (317.3 LF)	13961	10%	15357	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
59			W21X50, (23.81 LF)	1191	10%	1310	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
60			W24X55, (473.1 LF)	26021	10%	28623	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
61			W24X62, (523.22 LF)	32440	10%	35684	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
62			W24X62, (84.74 LF)	5254	10%	5779	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
63			W24X68, (160.1 LF)	10887	10%	11975	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
64			W27X84, (43.88 LF)	3686	10%	4055	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
65			W27X114, (40.02 LF)	4562	10%	5019	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
66			W12x19 (10), (7.72 LF)	147	10%	161	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
67			W14x22, (9.01 LF)	198	10%	218	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
68			W16x26(16), (13.4 LF)	348	10%	383	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
69			BF Beams (11), (12.04 LF)	12	10%	13	SF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			COLUMNS	15'-0" H											
70			HSS3x3x3/16 HGR, QTY_1 EA	103	10%	113	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
71			HSS4x2x3/16, QTY_9 EA	927	10%	1020	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
72			HSS4x4x3/16, QTY_27 EA	2782	10%	3061	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
73			HSS4x4x3/16 HGR, QTY_1 EA	103	10%	113	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
74			HSS5x5x1/2, QTY_1 EA	426	10%	469	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
75			HSS5x5x1/4, QTY_1 EA	234	10%	258	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
76			HSS5x5x3/16 HGR, QTY_1 EA	180	10%	198	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
77			HSS5x5x3/16, QTY_7 EA	1436	10%	1580	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
78			HSS6x6x1/4, QTY_2 EA	571	10%	628	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
79			HSS6x6x3/16, QTY_6 EA	1308	10%	1438	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
80			HSS6x6x3/16 HGR, QTY_1 EA	218	10%	240	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			ROOF FRAMING												
			METAL DECK												
81			9/16" x 24GA Shallow Verco Deck	7651	10%	8416	SF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
82			1-1/2" DP x 20GA (B) Metal Deck	69269	10%	76196	SF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
83			2" DPx 20GA (W2) Metal Deck	5867	10%	6454	SF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			METAL JOIST												
84			10K @ 6'-0" O.C	229	10%	252	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
85			12K @ 7'-1" O.C	99	10%	109	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
86			12K @ 8'-0" O.C	95	10%	104	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
87			14 K @ 6'-0" O.C	225	10%	248	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
88			14 K @ 7'-10" O.C	42	10%	47	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
89			16K @ 6'-4" O.C	40	10%	44	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
90			16K @ 7'-10" O.C	3	10%	4	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
91			18K @ 8'-0" O.C	65	10%	71	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
92			24K @ 7'- 4" O.C	226	10%	248	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
93			24K @ 6'- 6" O.C	219	10%	241	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
94			24K @ 7'-0" O.C	243	10%	268	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
95			24K @ 7'-6" O.C	632	10%	695	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
96			24LH @ 5'-6" O.C	154	10%	170	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
97			26K @ 6'-2" O.C	71	10%	78	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
98			26K @ 7'-6" O.C	1737	10%	1911	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -

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SR #	REF. SHEET	DETAIL SHEET	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT MANHOURS	MANHOUR RATE	UNIT LABOR RATE	TOTAL LABOR COST	UNIT MATERIAL	TOTAL MATERIAL COST	UNIT ITEM COST	TOTALCOST
99			26K @ 7'-9" O.C	113	10%	124	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
100			26K @ 7'-10" O.C	234	10%	258	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
101			26K @ 8'-0" O.C	146	10%	161	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
102			14-21 1/4-14 LH @ 5'-6" O.C	154	10%	169	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
103			14-21 1/4-14 LH @ 7'-6" O.C	234	10%	257	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
104			14-21 1/4-14 LH @ 7'-11" O.C	342	10%	377	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
105			14-21 1/4-14 LH @ 8'-0" O.C	324	10%	356	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
106			20LH @ 5' O.C	546	10%	601	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
107			28LH @ 5' O.C	362	10%	398	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
108			32LH @ 8' O.C	203	10%	223	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
109			48LH @ 7'-4" O.C	526	10%	578	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
110			43 1/2-68-43 1/2 DLH @ 7'-6" O.C	1864	10%	2050	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
111			50 3/4-22 LH @ 7'-6" O.C	656	10%	722	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
112			1000S162-97	90	10%	99	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
113			1000S162-97 @ 24" O.C	3329	10%	3662	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			HSS BEAMS												
114			HSS5x5x3/16, (59.17 LF)	708	10%	779	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
115			HSS5x5x1/4, (73.74 LF)	1152	10%	1267	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
116			HSS6x6x3/16, (40.44 LF)	588	10%	646	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
117			HSS7x7x1/4, (20.24 LF)	454	10%	499	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
118			HSS7x7x3/16, (63.72 LF)	1088	10%	1197	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
119			HSS10x4x3/16, (394.89 LF)	6745	10%	7419	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
120			HSS12x6x1/4, (53.47 LF)	1563	10%	1719	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
121			HSS12x8x1/4, (39.76 LF)	1297	10%	1427	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			ANGEL SECTION BLOCKING												
122			L4x4x1/4 Blocking, (36.31 LF)	240	10%	264	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
123			L6x6x3/8 Blocking, (32.98 LF)	491	10%	541	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			METAL BEAMS												
124			W8x10, (420.15 LF)	4202	10%	4622	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
125			W8x15, (25.53 LF)	383	10%	421	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
126			W8x18, (77.42 LF)	1394	10%	1533	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
127			W10x12, (274.5 LF)	3294	10%	3623	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
128			W10x15, (50.6 LF)	759	10%	835	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
129			W10x22, (66.64 LF)	1466	10%	1613	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
130			W10x22, (67.2 LF)	1478	10%	1626	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
131			W12x14, (281.41 LF)	3940	10%	4334	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
132			W12x16, (272.06 LF)	4353	10%	4788	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
133			W12x19, (235.23 LF)	4469	10%	4916	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
134			W12x26, (72.84 LF)	1894	10%	2083	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
135			W12x30, (145.18 LF)	4355	10%	4791	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
136			W14x22, (249.28 LF)	5484	10%	6033	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
137			W16x26, (428.24 LF)	11134	10%	12248	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
138			W16x31, (254.24 LF)	7881	10%	8670	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
139			W18x35, (467.76 LF)	16372	10%	18009	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
140			W18x40, (257.71 LF)	10308	10%	11339	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
141			W21x44, (365.18 LF)	16068	10%	17675	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
142			W21x48, (237.56 LF)	11403	10%	12543	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
143			W21x50, (23.88 LF)	1194	10%	1313	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
144			W21x57, (22.72 LF)	1295	10%	1425	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
145			W24x55, (120.51 LF)	6628	10%	7291	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
146			W24x62, (126.47 LF)	7841	10%	8625	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
147			W27x84, (24.95 LF)	2096	10%	2305	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
148			W36x135, (467.92 LF)	63169	10%	69486	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
149			W36x194, (85.73 LF)	16632	10%	18295	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
150			BF Beam	282	10%	310	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			COLUMNS	**8'-0" H**											
151			Galv. HSS4x4x1/4, QTY_12 EA	1172	10%	1289	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
152			Galv. HSS7x7x1/4, QTY_2 EA	359	10%	395	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
153			HSS6x6x3/16 HGR, QTY_2 EA	232	10%	256	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
154			HSS6x6x3/16 Stub, QTY_1 EA	116	10%	128	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			BRACING												
155			HSS5x5x1/4, (536.23 LF)	8376	10%	9214	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
156			HSS5x5x3/16, (102.89 LF)	1232	10%	1355	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
157			HSS6x6x1/4, (445.69 LF)	8477	10%	9325	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
158			HSS6x6x3/8, (57.52 LF)	1581	10%	1739	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
159			HSS6x6x5/16, (29.73 LF)	694	10%	763	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
160			HSS7x7x1/2, (28.02 LF)	1178	10%	1296	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
161			HSS7x7x1/4, (221.7 LF)	4971	10%	5468	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
162			HSS7x7x3/8, (29.51 LF)	961	10%	1058	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
163			HSS7x7x5/16, (58.57 LF)	1616	10%	1778	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
164			1/2" Gusset Plate	31	0%	31	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
165			1/4" Shear Plate	11	0%	11	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
166			5/16" Shear Plate	42	0%	42	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIR 1 - LEVEL 2												
167			Metal Stairs w/ (5'-4"x1'-0") Metal Plate Tred 24 Ea., 6" high Metal Plate Riser 25 Ea. w/ Landing (5'-8"x11'-4")	1	0%	1	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STRIMGERS												
168			HSS12x2x3/16, (66.91 LF)	1143	10%	1257	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIR 2 - LEVEL 2												
169			Metal Stairs w/ (5'-2"x1'-0") Metal Plate Tred 21 Ea., 6" high Metal Plate Riser 22 Ea. w/ Two Landings (5'-8"x5'-2") & (6'-9"x5'-2")	1	0%	1	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STRIMGERS												
170			HSS4x4x1/4, (9.75 LF)	119	10%	131	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
171			HSS12x2x5/16, (61.46 LF)	1827	10%	2009	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
172			L4x4x1/4, (10.25 LF)	68	10%	74	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIR 3 - LEVEL 2												
173			Metal Stairs w/ (5'-2"x1'-0") Metal Plate Tred 21 Ea., 6" high Metal Plate Riser 22 Ea. w/ Two Landings (5'-8"x11'-4") & (6'-9"x5'-2")	1	0%	1	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STRIMGERS												
174			HSS4x4x1/4, (9.55 LF)	117	10%	128	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
175			HSS12x2x5/16, (75.91 LF)	2256	10%	2482	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
176			L4x4x1/4, (10.15 LF)	67	10%	74	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIR 4 - LEVEL 2												
177			Metal Stairs w/ (6'-0"x1'-0") Metal Plate Tred 20 Ea., 6" high Metal Plate Riser 21 Ea. w/ Landing (6'-0"x6'-6")	3	0%	3	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
178			Metal Stairs w/ (6'-0"x`'-0") Metal Plate Tred 25 Ea., 6" high Metal Plate Riser 26 Ea. w/ Landing (6'-0"x6'-0")	2	0%	2	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STRIMGERS												
179			HSS12x2x1/4 , (62.62 LF)	1404	10%	1544	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
180			W8x10, (49.12 LF)	491	10%	540	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
181			W10X26, (124.61 LF)	3240	10%	3564	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
182			L5x3x1/4, (18.2 LF)	120	10%	132	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
183			L5x3x5/16, (12.94 LF)	106	10%	117	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
184			L3x3x1/4 Brace @ 6'-0" O.C, (47.55 LF)	233	10%	256	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIR 5 - LEVEL 2												
185			Metal Stairs w/ (5'-2"x1'-0") Metal Plate Tred 24 Ea., 6" high Metal Plate Riser 25 Ea. w/ Two Landings (5'-8"x5'-2") & (6'-9"x5'-2")	1	0%	1	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STRIMGERS												
186			HSS4x4x1/4, (9.47 LF)	116	10%	127	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
187			HSS12x2x5/16, (61.65 LF)	1832	10%	2015	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
188			L4x4x1/4, (10.2 LF)	67	10%	74	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIR 6 - LEVEL 2												
189			Metal Stairs w/ (5'-2"x1'-0") Metal Plate Tred 24 Ea., 6" high Metal Plate Riser 25 Ea. w/ Landing (6'-0"x5'-2")	1	0%	1	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STRIMGERS												
190			HSS4x4x1/4, (11.45 LF)	140	10%	154	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
191			HSS12x2x3/16, (52.83 LF)	1570	10%	1727	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIR 7 - LEVEL 2												
192			Metal Stairs w/ (5'-0"x1'-0") Metal Plate Tred 22 Ea., 6" high Metal Plate Riser 23 Ea. w/ Landing (5'-0"x10'-9")	1	0%	1	EA	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STRIMGERS												
193			HSS12x2x3/16, (51.23 LF)	51	10%	56	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIR 2 - LEVEL 1												
			STRIMGERS												
194			HSS4x4x3/16, (22.84 LF)	215	10%	237	LBs	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			RAILING												
			STAIRS 2												
195			Meta Guard Railing Top Mounted - (42" H)	9	10%	10	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
196			Meta Hand Railing Side Mounted - (36" H)	56	10%	62	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIRS 3												
197			Meta Guard Railing Top Mounted - (42" H)	28	10%	31	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
198			Meta Hand Railing Side Mounted - (36" H)	18	10%	20	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -

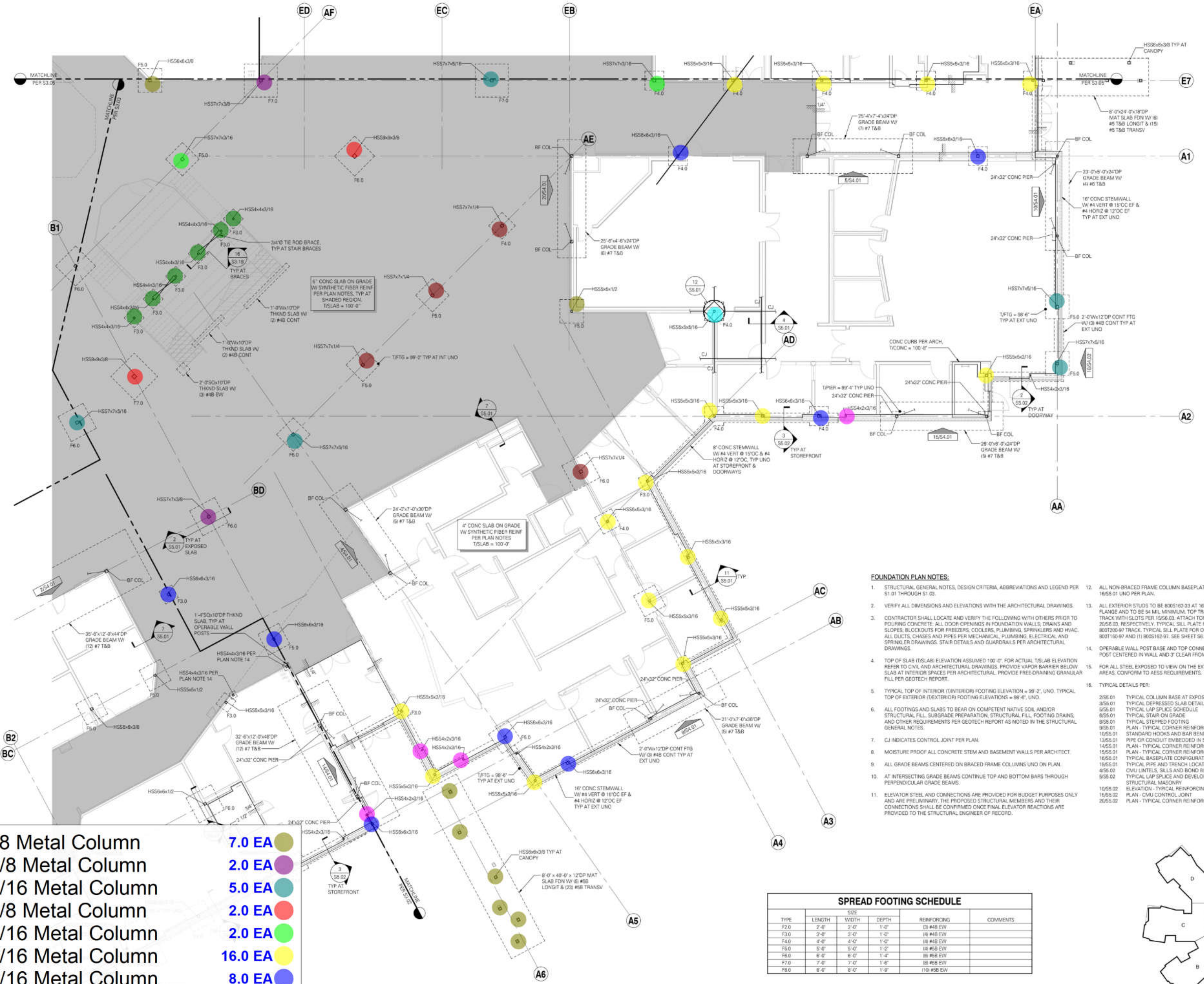
Estimate of Materials and Cost of Construction

Project: HIDDEN FOR PRIVACY
Address: HIDDEN FOR PRIVACY
Scope: METAL
Date: -

Website: www.alfasquareestimationa.com
Email: info@alfasquareestimations.com
Contact +17-869-476685

SR #	REF. SHEET	DETAIL SHEET	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT MANHOURS	MANHOUR RATE	UNIT LABOR RATE	TOTAL LABOR COST	UNIT MATERIAL	TOTAL MATERIAL COST	UNIT ITEM COST	TOTALCOST
			STAIRS 5												
199			Meta Guard Railing Top Mounted - (42" H)	10	10%	11	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
200			Meta Hand Railing Side Mounted - (36" H)	60	10%	66	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIRS 6												
201			Meta Hand Railing Side Mounted - (36" H)	57	10%	62	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			STAIRS 7												
202			Meta Guard Railing Top Mounted - (42" H)	23	10%	26	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
203			Meta Hand Railing Side Mounted - (36" H)	24	10%	27	LF	0.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			SUBTOTAL												$ -

TOTAL MATERIAL COST	$ -
TOTAL LABOR COST	$ -
TOTAL COST	$ -
OVERHEAD & PROFIT (15%)	$ -
TOTAL BID	$ -



- HSS6x6x3/8 Metal Column 7.0 EA
- HSS7X7X3/8 Metal Column 2.0 EA
- HSS7X7X5/16 Metal Column 5.0 EA
- HSS9X9X3/8 Metal Column 2.0 EA
- HSS7X7X3/16 Metal Column 2.0 EA
- HSS5X5X3/16 Metal Column 16.0 EA
- HSS6X6X3/16 Metal Column 8.0 EA
- HSS4X2X3/16 Metal Column 4.0 EA
- HSS5X5X5/16 Metal Column 1.0 EA
- HSS7X7X1/4 Metal Column 4.0 EA
- HSS4X4X3/16 Metal Column 6.0 EA
- HSS5X5X1/2 Metal Column 1.0 EA

FOUNDATION PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR FREEZERS, COOLERS, PLUMBING, SPRINKLERS AND HVAC. ALL DUCTS, CHASES AND PIPES PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
4. TOP OF SLAB (T/SLAB) ELEVATION ASSUMED 100'-0". FOR ACTUAL T/SLAB ELEVATION REFER TO CIVIL AND ARCHITECTURAL DRAWINGS. PROVIDE VAPOR BARRIER BELOW SLAB AT INTERIOR SPACES PER ARCHITECTURAL. PROVIDE FREE-DRAINING GRANULAR FILL PER GEOTECH REPORT.
5. TYPICAL TOP OF INTERIOR (T/INTERIOR) FOOTING ELEVATION = 99'-2", UNO. TYPICAL TOP OF EXTERIOR (T/EXTERIOR) FOOTING ELEVATIONS = 98'-6", UNO.
6. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOIL AND/OR STRUCTURAL FILL. SUBGRADE PREPARATION, STRUCTURAL FILL, FOOTING DRAINS, AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.
7. CJ INDICATES CONTROL JOINT PER PLAN.
8. MOISTURE PROOF ALL CONCRETE STEM AND BASEMENT WALLS PER ARCHITECT.
9. ALL GRADE BEAMS CENTERED ON BRACED FRAME COLUMNS UNO ON PLAN.
10. AT INTERSECTING GRADE BEAMS CONTINUE TOP AND BOTTOM BARS THROUGH PERPENDICULAR GRADE BEAMS.
11. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
12. ALL NON-BRACED FRAME COLUMN BASEPLATES TO BE 3/4" THICK, DIMENSION PER 16/S5.01 UNO PER PLAN.
13. ALL EXTERIOR STUDS TO BE 800S162-33 AT 16"OC UNO. BOTTOM TRACK TO HAVE 1 1/2" FLANGE AND TO BE 54 MIL MINIMUM. TOP TRACK TO BE 54 MIL MINIMUM DEFLECTION TRACK WITH SLOTS PER 15/S6.03. ATTACH TOP AND BOTTOM PLATE PER 15/S6.03 AND 20/S6.03, RESPECTIVELY. TYPICAL SILL PLATE FOR OPENGINGS UP TO 13'-0" TO BE (1) 800T200-97 TRACK. TYPICAL SILL PLATE FOR OPENINGS UP TO 20'-0" TO BE BUILT-UP OF (2) 800T150-97 AND (1) 800S162-97. SEE SHEET S6.03 FOR TYPICAL DETAILS.
14. OPERABLE WALL POST BASE AND TOP CONNECTIONS PER 11/S6.04 AND 16/S6.04. LOCATE POST CENTERED IN WALL AND 3' CLEAR FROM DOOR JAMB.
15. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
16. TYPICAL DETAILS PER:

2/S5.01	TYPICAL COLUMN BASE AT EXPOSED SLAB ON GRADE
3/S5.01	TYPICAL DEPRESSED SLAB DETAIL
5/S5.01	TYPICAL LAP SPLICE SCHEDULE
6/S5.01	TYPICAL STAIR ON GRADE
8/S5.01	TYPICAL STEPPED FOOTING
9/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
10/S5.01	STANDARD HOOKS AND BAR BENDS
13/S5.01	PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE
14/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
15/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS
16/S5.01	TYPICAL BASEPLATE CONFIGURATIONS
19/S5.01	TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING
4/S5.02	CMU LINTELS, SILLS AND BOND BEAMS
5/S5.02	TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE FOR STRUCTURAL MASONRY
10/S5.02	ELEVATION - TYPICAL REINFORCING IN CMU WALL
15/S5.02	PLAN - CMU CONTROL JOINT
20/S5.02	PLAN - TYPICAL CORNER REINFORCING AT CMU WALLS

SPREAD FOOTING SCHEDULE

TYPE	SIZE			REINFORCING	COMMENTS
	LENGTH	WIDTH	DEPTH		
F2.0	2'-0"	2'-0"	1'-0"	(3) #4B EW	
F3.0	3'-0"	3'-0"	1'-0"	(4) #4B EW	
F4.0	4'-0"	4'-0"	1'-0"	(4) #4B EW	
F5.0	5'-0"	5'-0"	1'-2"	(4) #5B EW	
F6.0	6'-0"	6'-0"	1'-4"	(6) #5B EW	
F7.0	7'-0"	7'-0"	1'-6"	(8) #5B EW	
F8.0	8'-0"	8'-0"	1'-9"	(10) #5B EW	

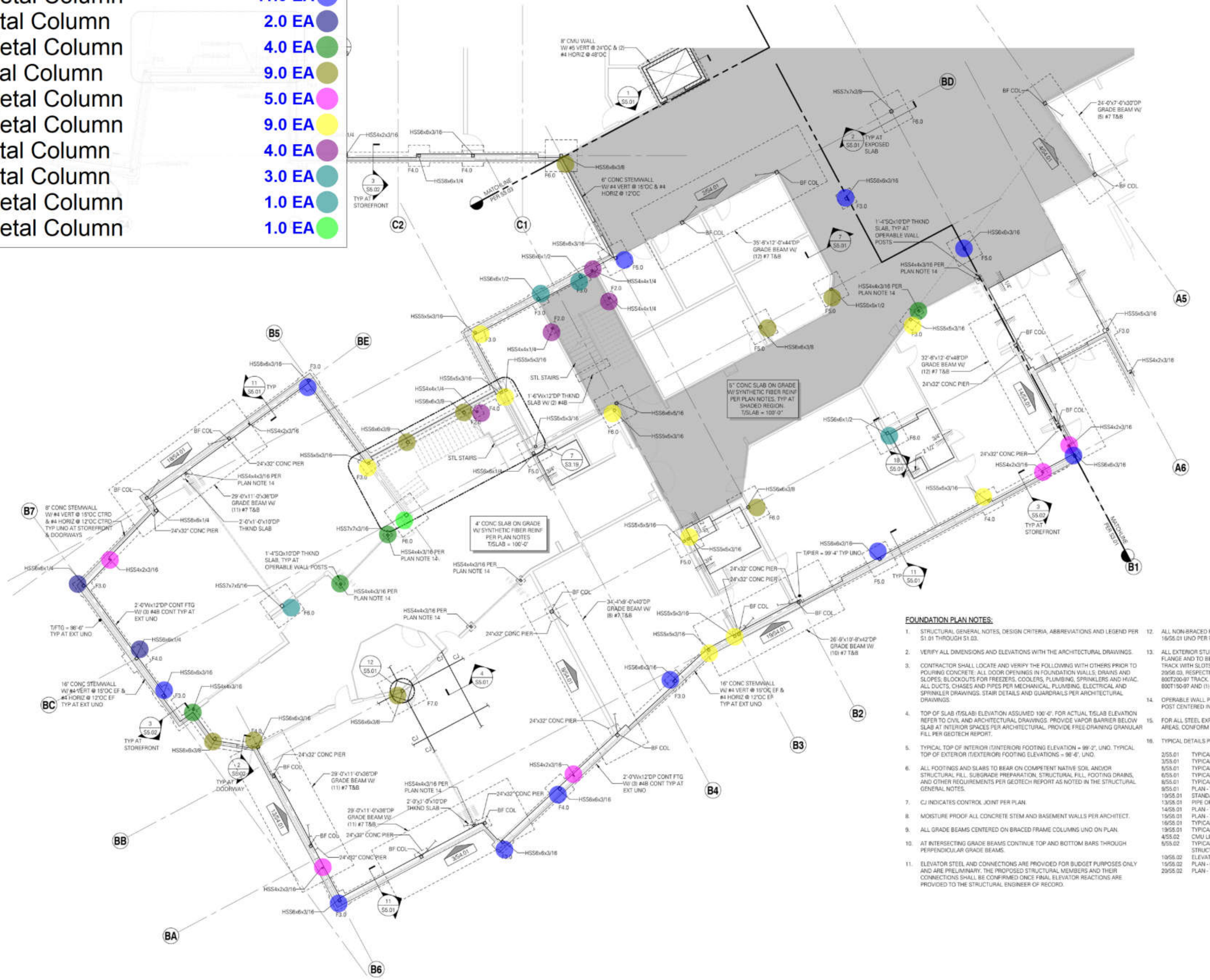
KEYPLAN
SCALE: NTS

NOTE:
REFERENCE S2.01 FOR ALL COLUMN DIMENSIONS NOT SHOWN.

FIRST FLOOR FOUNDATION PLAN - AREA A
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)

HSS6X6X3/16 Metal Column	11.0 EA	
HSS6X6X1/4 Metal Column	2.0 EA	
HSS4X4X3/16 Metal Column	4.0 EA	
HSS6x6x3/8 Metal Column	9.0 EA	
HSS4X2X3/16 Metal Column	5.0 EA	
HSS5X5X3/16 Metal Column	9.0 EA	
HSS4X4X1/4 Metal Column	4.0 EA	
HSS6X6X1/2 Metal Column	3.0 EA	
HSS7X7X5/16 Metal Column	1.0 EA	
HSS7X7X3/16 Metal Column	1.0 EA	



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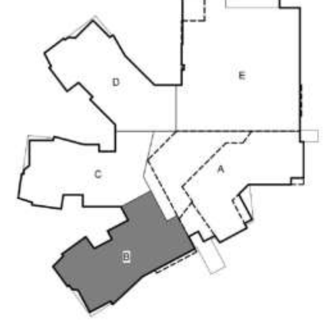
19/S5.01	TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING
4/S5.02	CMU LINTELS, SILLS AND BOND BEAMS
5/S5.02	TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE FOR STRUCTURAL MASONRY
10/S5.02	ELEVATION - TYPICAL REINFORCING IN CMU WALL
15/S5.02	PLAN - CMU CONTROL JOINT
20/S5.02	PLAN - TYPICAL CORNER REINFORCING AT CMU WALLS

SPREAD FOOTING SCHEDULE

TYPE	SIZE LENGTH	SIZE WIDTH	SIZE DEPTH	REINFORCING	COMMENTS
F2.0	2'-0"	2'-0"	1'-0"	(3) #4B EW	
F3.0	3'-0"	3'-0"	1'-0"	(4) #4B EW	
F4.0	4'-0"	4'-0"	1'-0"	(4) #4B EW	
F5.0	5'-0"	5'-0"	1'-2"	(4) #5B EW	
F6.0	6'-0"	6'-0"	1'-4"	(6) #5B EW	
F7.0	7'-0"	7'-0"	1'-6"	(8) #5B EW	
F8.0	8'-0"	8'-0"	1'-9"	(10) #5B EW	

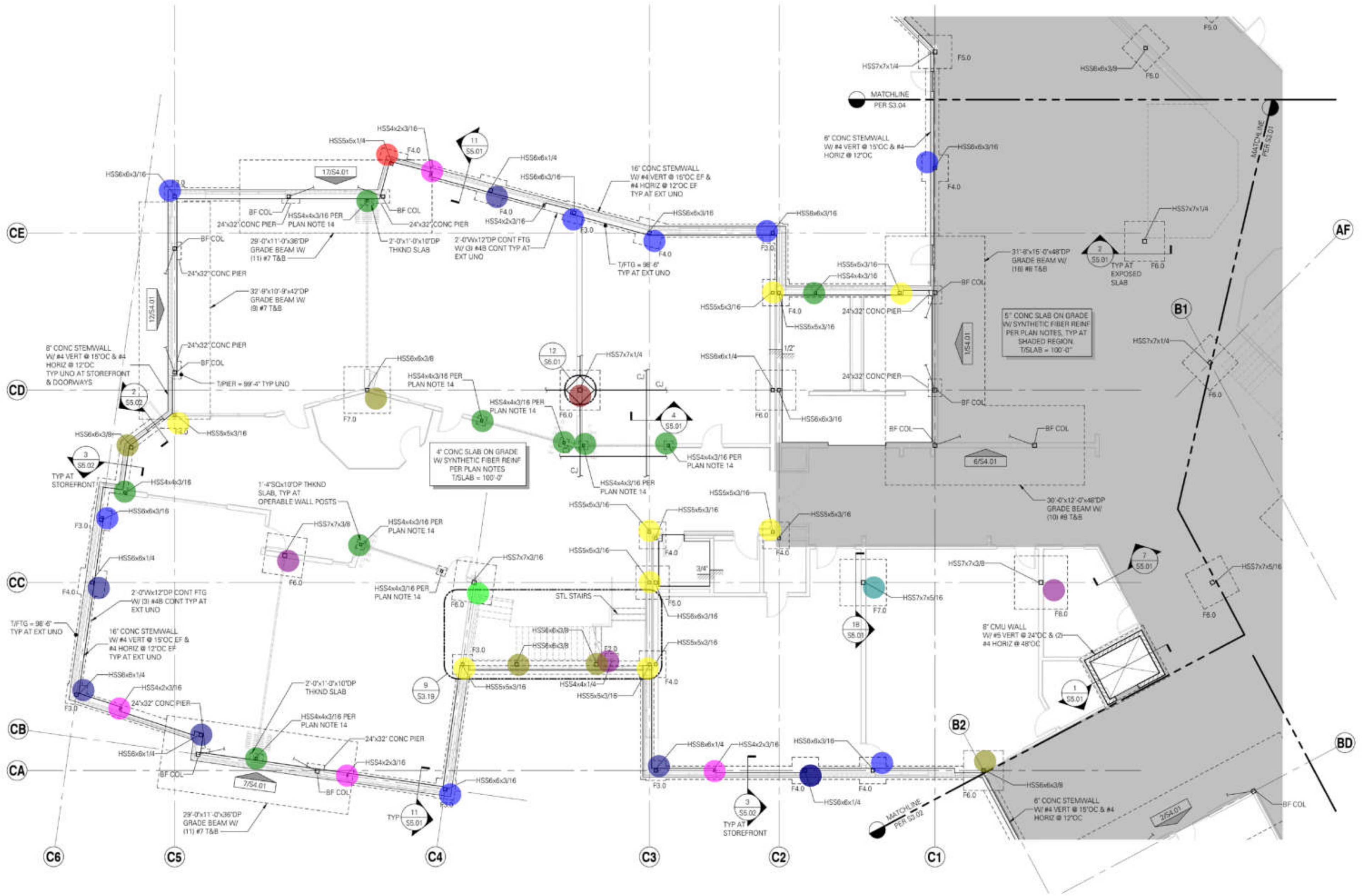
NOTE:
REFERENCE S2.01 FOR ALL COLUMN DIMENSIONS NOT SHOWN.



KEYPLAN
SCALE: NTS

FIRST FLOOR FOUNDATION PLAN - AREA B
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)



HSS6X6X3/16 Metal Column	8.0 EA	(blue)
HSS5X5X3/16 Metal Column	8.0 EA	(yellow)
HSS6x6x3/8 Metal Column	5.0 EA	(olive)
HSS4X4X3/16 Metal Column	9.0 EA	(green)
HSS6X6X1/4 Metal Column	7.0 EA	(dark blue)
HSS4X2X3/16 Metal Column	4.0 EA	(pink)
HSS4X4X1/4 Metal Column	1.0 EA	(purple)
HSS5X5X1/4 Metal Column	1.0 EA	(red)
HSS7X7X3/8 Metal Column	2.0 EA	(purple)
HSS7X7X3/16 Metal Column	1.0 EA	(light green)
HSS7X7X1/4 Metal Column	1.0 EA	(brown)
HSS7X7X5/16 Metal Column	1.0 EA	(teal)

...N CRITERIA, ABBREVIATIONS AND LEGEND PER

...IONS WITH THE ARCHITECTURAL DRAWINGS.

...RIFY THE FOLLOWING WITH OTHERS PRIOR TO ...INGS IN FOUNDATION WALLS; DRAINS AND ...COOLERS, PLUMBING, SPRINKLERS AND HVAC ...ECHANICAL, PLUMBING, ELECTRICAL AND ...S AND GUARDRAILS PER ARCHITECTURAL

...UMED 100'-0". FOR ACTUAL T/SLAB ELEVATION ...DRAWINGS. PROVIDE VAPOR BARRIER BELOW ...TECTURAL. PROVIDE FREE-DRAINING GRANULAR

...) FOOTING ELEVATION = 99'-2", UNO. TYPICAL ...NG ELEVATIONS = 98'-6", UNO.

...N COMPETENT NATIVE SOIL AND/OR ...RATION, STRUCTURAL FILL, FOOTING DRAINS, ...TECH REPORT AS NOTED IN THE STRUCTURAL

...AN.

...M AND BASEMENT WALLS PER ARCHITECT.

...ACED FRAME COLUMNS UNO ON PLAN.

...TINUE TOP AND BOTTOM BARS THROUGH

11. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.

12. ALL NON-BRACED FRAME COLUMN BASEPLATES TO BE 3/4" THICK, DIMENSION PER 16/S5.01 UNO PER PLAN.

13. ALL EXTERIOR STUDS TO BE 800S162-33 AT 16"OC UNO. BOTTOM TRACK TO HAVE 1 1/2" FLANGE AND TO BE 54 MIL MINIMUM. TOP TRACK TO BE 54 MIL MINIMUM DEFLECTION TRACK WITH SLOTS PER 15/S6.03. ATTACH TOP AND BOTTOM PLATE PER 15/S6.03 AND 20/S6.03, RESPECTIVELY. TYPICAL SILL PLATE FOR OPENGINGS UP TO 13'-0" TO BE (1) 800T200-97 TRACK. TYPICAL SILL PLATE FOR OPENINGS UP TO 20'-0" TO BE BUILT-UP OF (2) 800T150-97 AND (1) 800S162-97. SEE SHEET S6.03 FOR TYPICAL DETAILS.

14. OPERABLE WALL POST BASE AND TOP CONNECTIONS PER 11/S6.04 AND 16/S6.04. LOCATE POST CENTERED IN WALL AND 3" CLEAR FROM DOOR JAMB.

15. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.

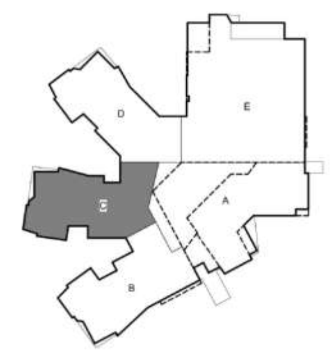
16. TYPICAL DETAILS PER:

2/S5.01	TYPICAL COLUMN BASE AT EXPOSED SLAB ON GRADE
3/S6.01	TYPICAL DEPRESSED SLAB DETAIL
5/S5.01	TYPICAL LAP SPLICE SCHEDULE
6/S6.01	TYPICAL STAIR ON GRADE
8/S5.01	TYPICAL STEPPED FOOTING
9/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
10/S5.01	STANDARD HOOKS AND BAR BENDS
13/S5.01	PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE
14/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
15/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS
16/S5.01	TYPICAL BASEPLATE CONFIGURATIONS
19/S5.01	TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING
4/S5.02	CMU LINTELS, SILLS AND BOND BEAMS
5/S5.02	TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE FOR STRUCTURAL MASONRY
10/S5.02	ELEVATION - TYPICAL REINFORCING IN CMU WALL
15/S5.02	PLAN - CMU CONTROL JOINT
20/S5.02	PLAN - TYPICAL CORNER REINFORCING AT CMU WALLS

SPREAD FOOTING SCHEDULE

TYPE	SIZE LENGTH	SIZE WIDTH	SIZE DEPTH	REINFORCING	COMMENTS
F2.0	2'-0"	2'-0"	1'-0"	(3) #4B EW	
F3.0	3'-0"	3'-0"	1'-0"	(4) #4B EW	
F4.0	4'-0"	4'-0"	1'-0"	(4) #4B EW	
F5.0	5'-0"	5'-0"	1'-2"	(4) #5B EW	
F6.0	6'-0"	6'-0"	1'-4"	(6) #5B EW	
F7.0	7'-0"	7'-0"	1'-6"	(8) #5B EW	
F8.0	8'-0"	8'-0"	1'-9"	(10) #5B EW	

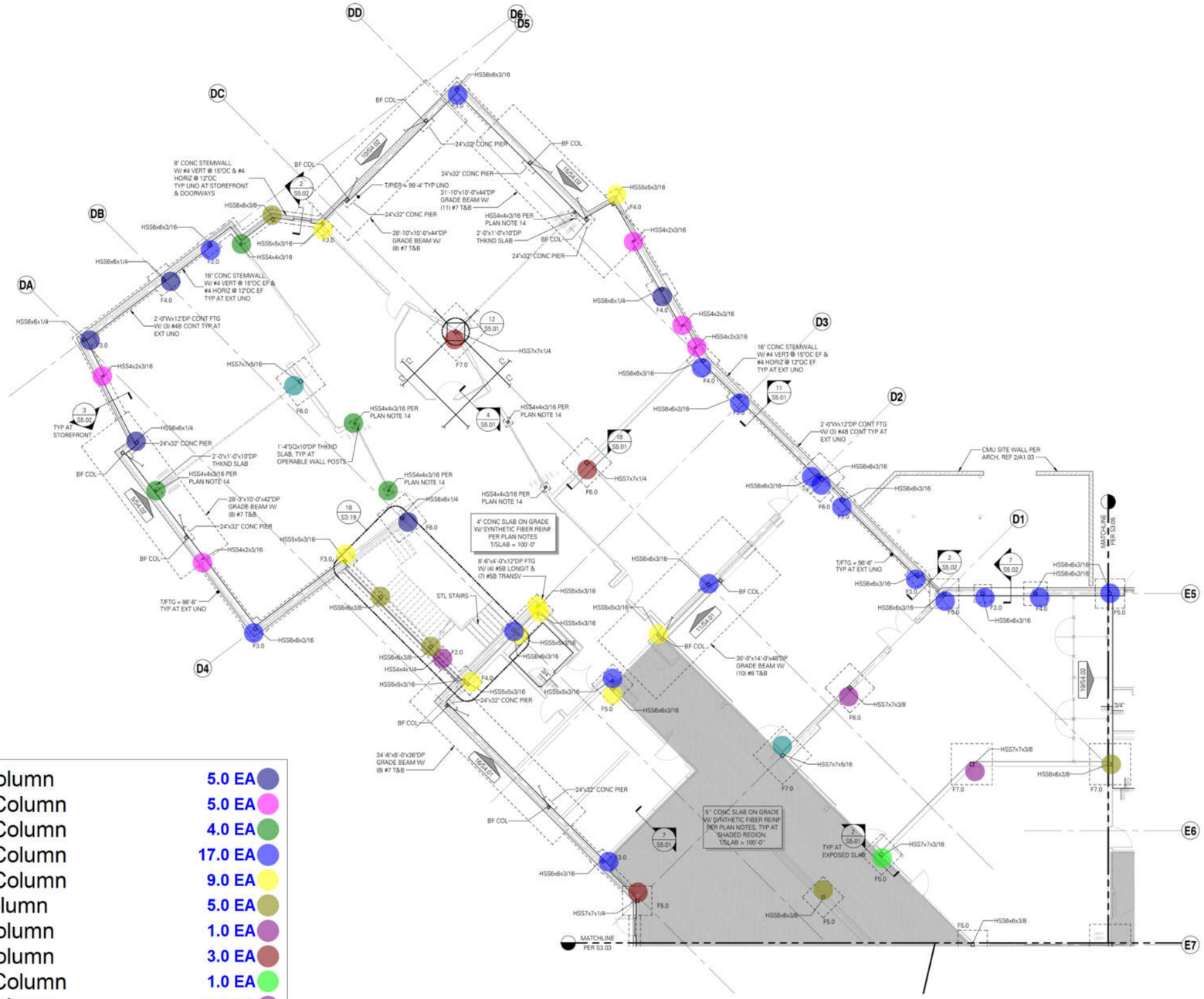
NOTE:
REFERENCE S2.01 FOR ALL COLUMN DIMENSIONS NOT SHOWN.



KEYPLAN
SCALE: NTS

FIRST FLOOR FOUNDATION PLAN - AREA C
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)



- HSS6X6X1/4 Metal Column — 5.0 EA
- HSS4X2X3/16 Metal Column — 5.0 EA
- HSS4X4X3/16 Metal Column — 4.0 EA
- HSS6X6X3/16 Metal Column — 17.0 EA
- HSS5X5X3/16 Metal Column — 9.0 EA
- HSS6x6x3/8 Metal Column — 5.0 EA
- HSS4X4X1/4 Metal Column — 1.0 EA
- HSS7X7X1/4 Metal Column — 3.0 EA
- HSS7X7X3/16 Metal Column — 1.0 EA
- HSS7X7X3/8 Metal Column — 2.0 EA
- HSS7X7X5/16 Metal Column — 2.0 EA

FOUNDATION PLAN NOTES:

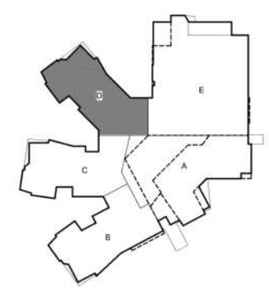
1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR FREEZERS, COOLERS, PLUMBING, SPRINKLERS AND HVAC; ALL DUCTS, CHASES AND PIPES PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
4. TOP OF SLAB (T/SLAB) ELEVATION ASSUMED 100'-0". FOR ACTUAL T/SLAB ELEVATION REFER TO CIVIL AND ARCHITECTURAL DRAWINGS. PROVIDE VAPOR BARRIER BELOW SLAB AT INTERIOR SPACES PER ARCHITECTURAL. PROVIDE FREE-DRAINING GRANULAR FILL PER GEOTECH REPORT.
5. TYPICAL TOP OF INTERIOR (T/INTERIOR) FOOTING ELEVATION = 99'-2", UNO. TYPICAL TOP OF EXTERIOR (T/EXTERIOR) FOOTING ELEVATIONS = 98'-6", UNO.
6. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOIL AND/OR STRUCTURAL FILL. SUBGRADE PREPARATION, STRUCTURAL FILL, FOOTING DRAINS, AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.
7. CJ INDICATES CONTROL JOINT PER PLAN.
8. MOISTURE PROOF ALL CONCRETE STEM AND BASEMENT WALLS PER ARCHITECT.
9. ALL GRADE BEAMS CENTERED ON BRACED FRAME COLUMNS UNO ON PLAN.
10. AT INTERSECTING GRADE BEAMS CONTINUE TOP AND BOTTOM BARS THROUGH PERPENDICULAR GRADE BEAMS.
11. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
12. ALL NON-BRACED FRAME COLUMN BASEPLATES TO BE 3/4" THICK, DIMENSION PER 16/S5.01 UNO PER PLAN.
13. ALL EXTERIOR STUDS TO BE 800S162-33 AT 16"OC UNO. BOTTOM TRACK TO HAVE 1 1/2" FLANGE AND TO BE 54 MIL MINIMUM. TOP TRACK TO BE 54 MIL MINIMUM DEFLECTION TRACK WITH SLOTS PER 15/S6.03. ATTACH TOP AND BOTTOM PLATE PER 15/S6.03 AND 20/S6.03, RESPECTIVELY. TYPICAL SILL PLATE FOR OPENGINGS UP TO 13'-0" TO BE (1) 800T200-97 TRACK. TYPICAL SILL PLATE FOR OPENINGS UP TO 20'-0" TO BE BUILT-UP OF (2) 800T150-97 AND (1) 800S162-97. SEE SHEET S6.03 FOR TYPICAL DETAILS.
14. OPERABLE WALL POST BASE AND TOP CONNECTIONS PER 1 I/S6.04 AND 16/S6.04. LOCATE POST CENTERED IN WALL AND 3" CLEAR FROM DOOR JAMB.
15. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
16. TYPICAL DETAILS PER:

2/S5.01	TYPICAL COLUMN BASE AT EXPOSED SLAB ON GRADE
3/S5.01	TYPICAL DEPRESSED SLAB DETAIL
5/S5.01	TYPICAL LAP SPLICE SCHEDULE
6/S5.01	TYPICAL STAIR ON GRADE
8/S5.01	TYPICAL STEPPED FOOTING
9/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
10/S5.01	STANDARD HOOKS AND BAR BENDS
13/S5.01	PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE
14/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
15/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS
16/S5.01	TYPICAL BASEPLATE CONFIGURATIONS
19/S5.01	TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING
4/S5.02	CMU LINTELS, SILLS AND BOND BEAMS
5/S5.02	TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE FOR STRUCTURAL MASONRY
10/S5.02	ELEVATION - TYPICAL REINFORCING IN CMU WALL
15/S5.02	PLAN - CMU CONTROL JOINT
20/S5.02	PLAN - TYPICAL CORNER REINFORCING AT CMU WALLS

SPREAD FOOTING SCHEDULE

TYPE	SIZE LENGTH	SIZE WIDTH	SIZE DEPTH	REINFORCING	COMMENTS
F2.0	2'-0"	2'-0"	1'-0"	(3) #4B EW	
F3.0	3'-0"	3'-0"	1'-0"	(4) #4B EW	
F4.0	4'-0"	4'-0"	1'-0"	(4) #4B EW	
F5.0	5'-0"	5'-0"	1'-2"	(4) #5B EW	
F6.0	6'-0"	6'-0"	1'-4"	(6) #5B EW	
F7.0	7'-0"	7'-0"	1'-6"	(8) #5B EW	
F8.0	8'-0"	8'-0"	1'-9"	(10) #5B EW	

NOTE:
REFERENCE S2.01 FOR ALL COLUMN DIMENSIONS NOT SHOWN.



KEYPLAN
SCALE: NTS

FIRST FLOOR FOUNDATION PLAN - AREA D
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)
These documents are incomplete and are not intended for purposes of obtaining a permit or construction.

REVISIONS			
•	HSS6X6X3/16 Metal Column	10.0 EA	●
•	HSS5X5X3/16 Metal Column	7.0 EA	●
•	HSS7X7X3/16 Metal Column	4.0 EA	●
•	HSS7X7X5/16 Metal Column	2.0 EA	●
•	HSS4X4X3/16 Metal Column	6.0 EA	●
•	HSS6x6x3/8 Metal Column	1.0 EA	●
•	HSS4X4X1/4 Metal Column	3.0 EA	●
•	HSS7X7X1/4 Metal Column	4.0 EA	●
•	HSS6X6X1/4 Metal Column	1.0 EA	●

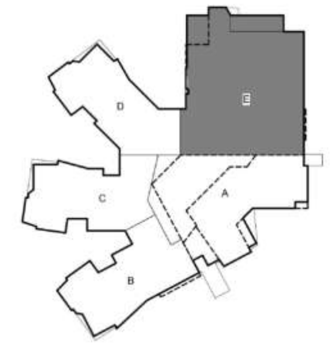
SPREAD FOOTING SCHEDULE

TYPE	SIZE			REINFORCING	COMMENTS
	LENGTH	WIDTH	DEPTH		
F2.0	2'-0"	2'-0"	1'-0"	(3) #4B EW	
F3.0	3'-0"	3'-0"	1'-0"	(4) #4B EW	
F4.0	4'-0"	4'-0"	1'-0"	(4) #4B EW	
F5.0	5'-0"	5'-0"	1'-2"	(4) #5B EW	
F6.0	6'-0"	6'-0"	1'-4"	(6) #5B EW	
F7.0	7'-0"	7'-0"	1'-6"	(8) #5B EW	
F8.0	8'-0"	8'-0"	1'-9"	(10) #5B EW	

FOUNDATION PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR FREEZERS, COOLERS, PLUMBING, SPRINKLERS AND HVAC. ALL DUCTS, CHASES AND PIPES PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
4. TOP OF SLAB (T/SLAB) ELEVATION ASSUMED 100'-0". FOR ACTUAL T/SLAB ELEVATION REFER TO CIVIL AND ARCHITECTURAL DRAWINGS. PROVIDE VAPOR BARRIER BELOW SLAB AT INTERIOR SPACES PER ARCHITECTURAL. PROVIDE FREE-DRAINING GRANULAR FILL PER GEOTECH REPORT.
5. TYPICAL TOP OF INTERIOR (T/INTERIOR) FOOTING ELEVATION = 99'-4", UNO. TYPICAL TOP OF EXTERIOR (T/EXTERIOR) FOOTING ELEVATIONS = 96'-6", UNO.
6. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOIL AND/OR STRUCTURAL FILL. SUBGRADE PREPARATION, STRUCTURAL FILL, FOOTING DRAINS, AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.
7. CJ INDICATES CONTROL JOINT PER PLAN.
8. MOISTURE PROOF ALL CONCRETE STEM AND BASEMENT WALLS PER ARCHITECT.
9. ALL GRADE BEAMS CENTERED ON BRACED FRAME COLUMNS UNO ON PLAN.
10. AT INTERSECTING GRADE BEAMS CONTINUE TOP AND BOTTOM BARS THROUGH PERPENDICULAR GRADE BEAMS.
11. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
12. ALL NON-BRACED FRAME COLUMN BASEPLATES TO BE 3/4" THICK, DIMENSION PER 18/S5.01 UNO PER PLAN.
13. ALL EXTERIOR STUDS TO BE 800S162-33 AT 16"OC UNO. BOTTOM TRACK TO HAVE 1 1/2" FLANGE AND TO BE 54 MIL MINIMUM. TOP TRACK TO BE 54 MIL MINIMUM DEFLECTION TRACK WITH SLOTS PER 15/S6.03. ATTACH TOP AND BOTTOM PLATE PER 15/S6.03 AND 20/S6.03, RESPECTIVELY. TYPICAL SILL PLATE FOR OPENGINGS UP TO 13'-0" TO BE (1) 800T200-97 TRACK. TYPICAL SILL PLATE FOR OPENINGS UP TO 20'-0" TO BE BUILT-UP OF (2) 800T150-97 AND (1) 800S162-97. SEE SHEET S6.03 FOR TYPICAL DETAILS.
14. OPERABLE WALL POST BASE AND TOP CONNECTIONS PER 11/S6.04 AND 16/S6.04. LOCATE POST CENTERED IN WALL AND 2" CLEAR FROM DOOR JAMB.
15. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
16. TYPICAL DETAILS PER:

2/S5.01	TYPICAL STEP AT SLAB ON GRADE
3/S5.01	TYPICAL DEPRESSED SLAB DETAIL
5/S5.01	TYPICAL LAP SPLICE SCHEDULE
6/S5.01	TYPICAL STAIR ON GRADE
8/S5.01	TYPICAL STEPPED FOOTING
9/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
10/S5.01	STANDARD HOOKS AND BAR BENDS
13/S5.01	PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE
14/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
15/S5.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS
18/S5.01	TYPICAL BASEPLATE CONFIGURATIONS
19/S5.01	TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING
4/S5.02	CMU LINTELS, SILLS AND BOND BEAMS
5/S5.02	TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE FOR STRUCTURAL MASONRY
10/S5.02	ELEVATION - TYPICAL REINFORCING IN CMU WALL
15/S5.02	PLAN - CMU CONTROL JOINT
20/S5.02	PLAN - TYPICAL CORNER REINFORCING AT CMU WALLS



KEYPLAN
SCALE: NTS

FOR BID (NOT FOR CONSTRUCTION)

NOTE:
REFERENCE S2.01 FOR ALL COLUMN DIMENSIONS NOT SHOWN.

FIRST FLOOR FOUNDATION PLAN - AREA E
SCALE: 1/8" = 1'-0"

REVISIONS

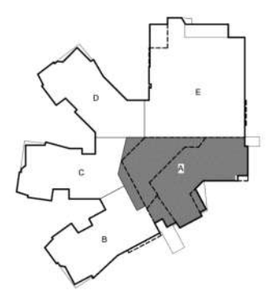
W12X19	103.3 FT
W16X31	134.8 FT
W14X26	254.1 FT
W12X16	161.7 FT
W16X26	344.5 FT
W18X40	77.0 FT
HSS6X4X3/16	22.2 FT
W10X12	387.5 FT
W24X55	88.5 FT
W24X62	50.2 FT
W14X22	244.3 FT
W21X44	107.0 FT
W12X14	62.9 FT
W10X19	31.7 FT
W16X26	153.8 FT
W8X10	138.5 FT
W24X62	40.0 FT
W27X114	40.0 FT
W18X35	86.8 FT
W27X84	43.9 FT
32LH @ 7'-0" O.C.	2409.4 SQ FT
28LH @ 6'-0" O.C.	8111.0 SQ FT
24LH @ 4'-0" O.C.	1039.9 SQ FT
L5X5X5/16	69.3 FT
W8X31	13.9 FT
W18X76	49.0 FT
HSS8X4X1/4	34.0 FT
W16X50	97.8 FT
1-1/2" DP x 20GA (B) Metal Deck	17881.4 SQ FT
2" DPx 20GA (W2) Metal Deck	3907.0 SQ FT

FLOOR FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
4. TOP OF SLAB ELEVATION (T/SLAB) = 115'-0", UNO.
5. T/STL=X'-X" INDICATES TOP OF STEEL (T/STL) ELEVATION (T/STL = B/DECK) UNO; AT GIRDERS SUPPORTING OPEN WEB STEEL JOISTS (T/STL) = -5" FOR BEARING SEAT DEPTH. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO.
6. FLOOR FRAMING SYSTEM SHALL BE OF COMPOSITE CONSTRUCTION. PROVIDE SHEAR STUDS 3/4" DIAMETER, MIN x IDECK DEPTH + 1 1/2"I LONG, SPACED PER 8/S6.02. NUMBERS INDICATED ON PLAN IN PARENTHESES ADJACENT TO STEEL BEAM CALLOUT INDICATE THE MINIMUM NUMBER OF STUDS REQUIRED. AT BEAMS WHERE STUD QUANTITY IS OMITTED, PROVIDE STUDS @ 12"OC MAX.
7. NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALLOUT SHOWN THUS: I400/200I INDICATES TOTAL LOAD AND LIVE LOAD (IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
8. CONCRETE OVER METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. PROVIDE REINFORCING AS SHOWN IN PLAN AND DETAILS. DECK ATTACHMENT REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
9. TYPICAL FLOOR DECK OVERHANG TO BE 4" FROM BEAM CENTERLINE, UNO.
10. CONSTRUCTION JOINTS IN CONCRETE OVER METAL DECK FLOORS TO BE COORDINATED AND APPROVED WITH ENGINEER OF RECORD. CONTRACTOR TO ASSUME #4 x 5'-0" @ 18"OC JOINT DOWELS FOR THE LENGTH OF THE CONSTRUCTION JOINT.
11. LAP WELDED WIRE FABRIC PER STRUCTURAL GENERAL NOTES.
12. ●—— INDICATES WELDED DRAG CONNECTION AT THE END OF BEAM. SEE 17/S6.02 FOR ADDITIONAL INFORMATION. AT CAMBERED BEAMS, DO NOT WELD UNTIL AFTER CONCRETE OVER METAL DECK HAS BEEN POURED.
13. CMU: WALL TYPES, REINFORCING SIZE AND SPACING PER PLAN. MATERIALS AND SPECIAL INSPECTION REQUIREMENTS AS PER STRUCTURAL GENERAL NOTES, UNO.
14. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
15. LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING AND SLAB INTERFACE WITH CMU WALLS. REQUIREMENTS ARE PER PLAN.
16. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
17. OPERABLE WALL POST BASE AND TOP CONNECTIONS PER 12/S6.04 AND 16/S6.04. TYPICAL UNO. TOP CONNECTION PER 11/S6.04 SIMILAR AT EXTERIOR CONDITION, TYPICAL UNO. LOCATE POST CENTERED IN WALL AND 3" CLEAR FROM DOOR JAMB.
18. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
19. TYPICAL DETAILS PER:

3/S6.01	TYPICAL DECK AT DISCONTINUITIES
8/S6.01	PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN
14/S6.01	TYPICAL METAL DECK OPENING REINFORCING
18/S6.01	TYPICAL BEAM FLANGE BRACE
19/S6.01	TYPICAL SLAB EDGE AT STEEL BEAM
4/S6.02	TYPICAL HSS BEAM CONNECTIONS
6/S6.02	TYPICAL COMPOSITE BEAM SHEAR STUD LAYOUT
9/S6.02	BEAM TO HSS COLUMN CONNECTIONS
16/S6.02	SKEWED BOLTED BEAM CONNECTION
17/S6.02	STEEL CONNECTION DETAILS
11/S6.03	PLAN - TYPICAL REINFORCING AT SLAB EDGE CORNERS

NOTE:
REFERENCE S3.11 FOR ROOF PLAN FRAMING NOTES.



KEYPLAN
SCALE: NTS

SECOND FLOOR FRAMING PLAN - AREA A
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)
These drawings are not intended for purposes of obtaining a permit or construction.

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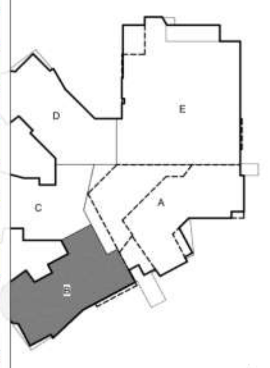
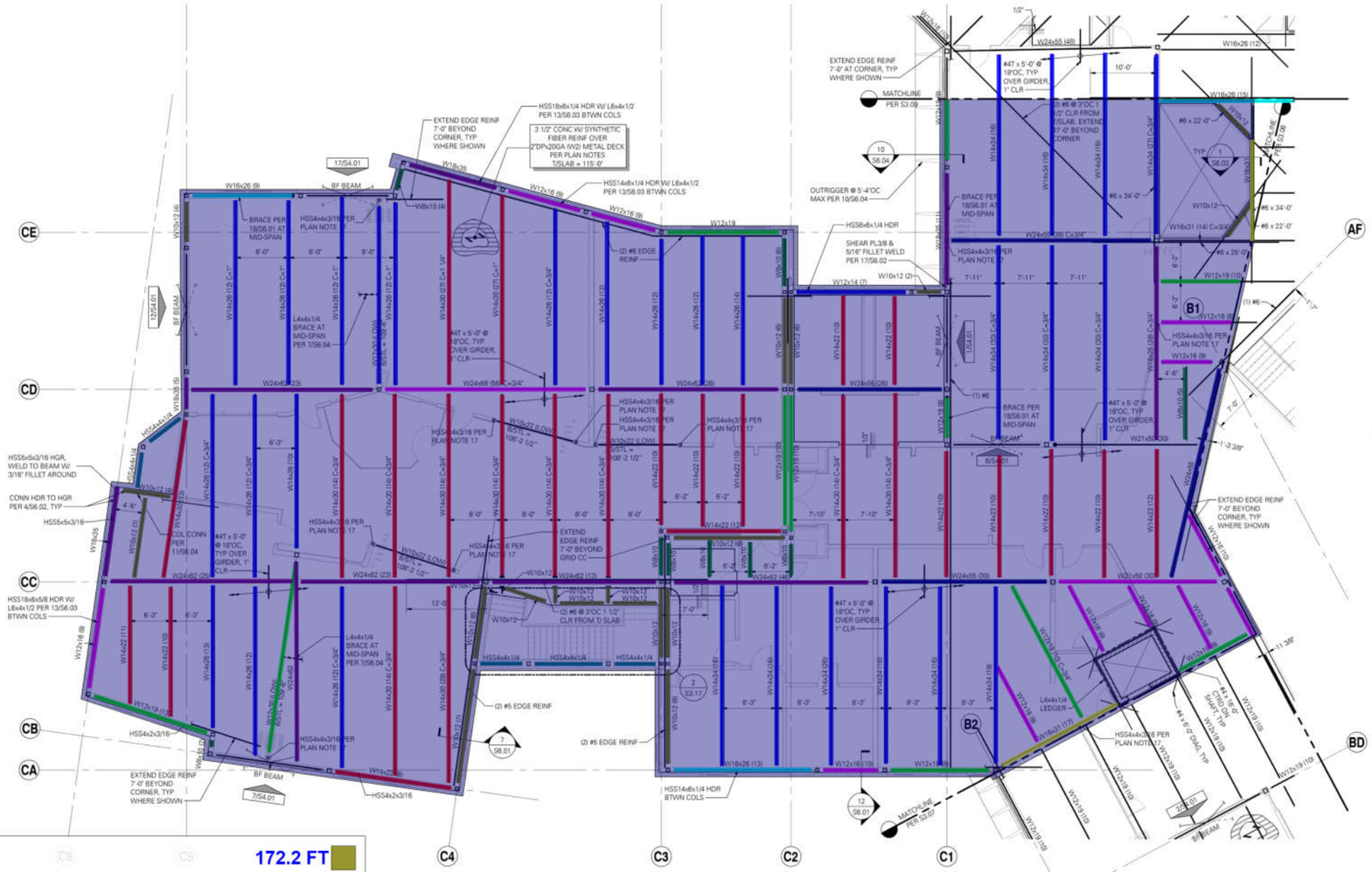
W10X12	173.9 FT	
W18X35	17.8 FT	
W12X19	238.2 FT	
W8X10	1.2 FT	
HSS4X4X1/4	33.9 FT	
W14X26	654.1 FT	
W12X16	80.5 FT	
W16X26	55.1 FT	
W16X26	42.2 FT	
W21X44	32.7 FT	
W12X14	11.4 FT	
HSS8X4X1/4	7.2 FT	
W14X22	380.1 FT	
W24X62	192.3 FT	
W14X30	336.2 FT	
W12X30	55.9 FT	
W10X22	36.5 FT	
W16X31	27.0 FT	
W24X55	56.4 FT	
W24X68	30.0 FT	
W24X62	26.5 FT	
HSS6X4X3/16	22.0 FT	
W18X40	48.8 FT	
2" DPx 20GA (W2) Metal Deck	14085.3 SQ FT	



KEYPLAN
SCALE: NTS

FOR BID (NOT FOR CONSTRUCTION)

SECOND FLOOR FRAMING PLAN - AREA B
SCALE: 1/8" = 1'-0"

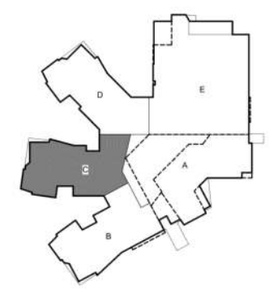


W10X12	172.2 FT
W18X35	77.9 FT
HSS4X4X1/4	33.9 FT
W12X16	122.9 FT
W12X19	150.5 FT
W8X10	48.4 FT
W14X22	254.0 FT
W24X62	192.6 FT
W16X26	55.9 FT
W16X31	34.9 FT
W24X55	108.8 FT
W12X14	16.4 FT
W14X26	409.1 FT
W14X30	362.1 FT
W14X34	358.7 FT
W24X68	30.2 FT
W12X30	29.0 FT
W21X50	23.8 FT
2" DPx 20GA (W2) Metal Deck	13926.3 SQ FT

FLOOR FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
4. TOP OF SLAB ELEVATION (T/SLAB) = 115'-0", UNO.
5. T/STL=X'-X" INDICATES TOP OF STEEL (T/STL) ELEVATION (T/STL = B/DECK) UNO; AT GIRDERS SUPPORTING OPEN WEB STEEL JOISTS (T/STL) = -5" FOR BEARING SEAT DEPTH. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO.
6. FLOOR FRAMING SYSTEM SHALL BE OF COMPOSITE CONSTRUCTION. PROVIDE SHEAR STUDS 3/4" DIAMETER, MIN x tDECK DEPTH + 1 1/2") LONG, SPACED PER 6/S6.02. NUMBERS INDICATED ON PLAN IN PARENTHESES ADJACENT TO STEEL BEAM CALLOUT INDICATE THE MINIMUM NUMBER OF STUDS REQUIRED. AT BEAMS WHERE STUD QUANTITY IS OMITTED, PROVIDE STUDS @ 12"OC MAX.
7. NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALLOUT SHOWN THUS: (400/200) INDICATES TOTAL LOAD AND LIVE LOAD (IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
8. CONCRETE OVER METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. PROVIDE REINFORCING AS SHOWN IN PLAN AND DETAILS. DECK ATTACHMENT REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
9. TYPICAL FLOOR DECK OVERHANG TO BE 4" FROM BEAM CENTERLINE, UNO.
10. CONSTRUCTION JOINTS IN CONCRETE OVER METAL DECK FLOORS TO BE COORDINATED AND APPROVED WITH ENGINEER OF RECORD. CONTRACTOR TO ASSUME #4 x 5'-0" @ 18"OC JOINT DOWELS FOR THE LENGTH OF THE CONSTRUCTION JOINT.
11. LAP WELDED WIRE FABRIC PER STRUCTURAL GENERAL NOTES.
12. ●——— INDICATES WELDED DRAG CONNECTION AT THE END OF BEAM. SEE 17/S6.02 FOR ADDITIONAL INFORMATION. AT CAMBERED BEAMS, DO NOT WELD UNTIL AFTER CONCRETE OVER METAL DECK HAS BEEN POURED.
13. CMU: WALL TYPES, REINFORCING SIZE AND SPACING PER PLAN. MATERIALS AND SPECIAL INSPECTION REQUIREMENTS AS PER STRUCTURAL GENERAL NOTES, UNO.
14. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
15. LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING AND SLAB INTERFACE WITH CMU WALLS. REQUIREMENTS ARE PER PLAN.
16. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
17. OPERABLE WALL POST BASE AND TOP CONNECTIONS PER 12/S6.04 AND 16/S6.04, TYPICAL UNO. TOP CONNECTION PER 11/S6.04 SIMILAR AT EXTERIOR CONDITION, TYPICAL UNO.; LOCATE POST CENTERED IN WALL AND 3" CLEAR FROM DOOR JAMB.
18. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
19. TYPICAL DETAILS PER:

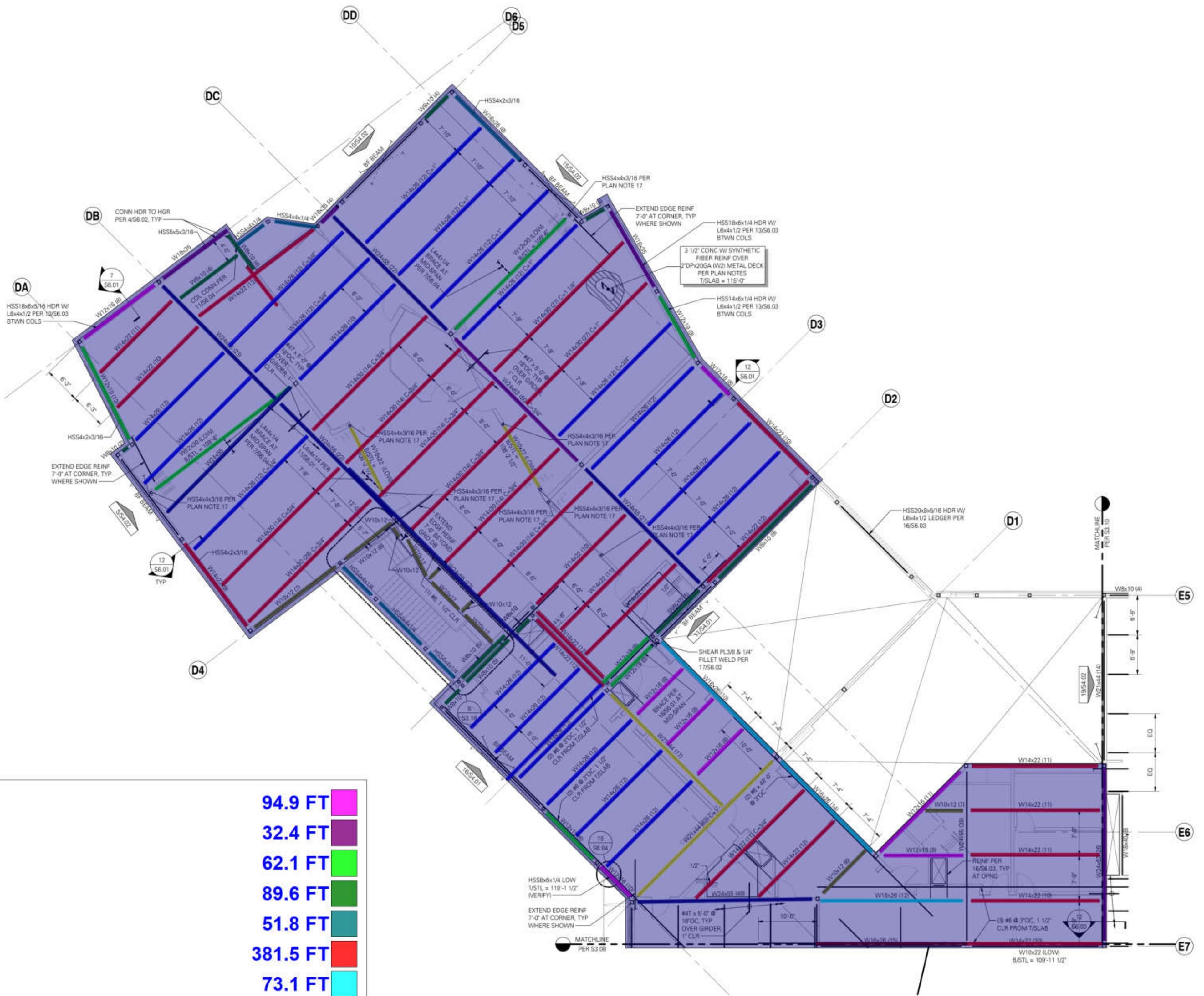
3/S6.01	TYPICAL DECK AT DISCONTINUITIES
9/S6.01	PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN
14/S6.01	TYPICAL METAL DECK OPENING REINFORCING
18/S6.01	TYPICAL BEAM FLANGE BRACE
19/S6.01	TYPICAL SLAB EDGE AT STEEL BEAM
4/S6.02	TYPICAL HSS BEAM CONNECTIONS
6/S6.02	TYPICAL COMPOSITE BEAM SHEAR STUD LAYOUT
9/S6.02	BEAM TO HSS COLUMN CONNECTIONS
16/S6.02	SKEWED BOLTED BEAM CONNECTION
17/S6.02	STEEL CONNECTION DETAILS
11/S6.03	PLAN - TYPICAL REINFORCING AT SLAB EDGE CORNERS



KEYPLAN
SCALE: NTS

SECOND FLOOR FRAMING PLAN - AREA C
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)



W12X16	94.9 FT	
W18X35	32.4 FT	
W12X19	62.1 FT	
W8X10	89.6 FT	
HSS4X4X1/4	51.8 FT	
W14X22	381.5 FT	
W16X26	73.1 FT	
W24X62	59.0 FT	
W16X26	25.9 FT	
W10X12	70.2 FT	
W14X26	536.0 FT	
W12X30	55.7 FT	
W24X55	219.4 FT	
W14X30	283.5 FT	
W21X44	59.6 FT	
W10X22	23.9 FT	
2" DPx 20GA (W2) Metal D...	10998.8 SQ FT	

FLOOR FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
4. TOP OF SLAB ELEVATION (T/SLAB) = 115'-0", UNO.
5. T/STL=X'-X" INDICATES TOP OF STEEL (T/STL) ELEVATION (T/STL = B/DECK) UNO; AT GIRDERS SUPPORTING OPEN WEB STEEL JOISTS (T/STL) = -5" FOR BEARING SEAT DEPTH. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO.
6. FLOOR FRAMING SYSTEM SHALL BE OF COMPOSITE CONSTRUCTION. PROVIDE SHEAR STUDS 3/4" DIAMETER, MIN x (DECK DEPTH + 1 1/2") LONG, SPACED PER 6/S6.02. NUMBERS INDICATED ON PLAN IN PARENTHESES ADJACENT TO STEEL BEAM CALLOUT INDICATE THE MINIMUM NUMBER OF STUDS REQUIRED. AT BEAMS WHERE STUD QUANTITY IS OMITTED, PROVIDE STUDS @ 12"OC MAX.
7. NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALLOUT SHOWN THUS: (400/200) INDICATES TOTAL LOAD AND LIVE LOAD (IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
8. CONCRETE OVER METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. PROVIDE REINFORCING AS SHOWN IN PLAN AND DETAILS. DECK ATTACHMENT REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
9. TYPICAL FLOOR DECK OVERHANG TO BE 4" FROM BEAM CENTERLINE, UNO.
10. CONSTRUCTION JOINTS IN CONCRETE OVER METAL DECK FLOORS TO BE COORDINATED AND APPROVED WITH ENGINEER OF RECORD. CONTRACTOR TO ASSUME #4 x 5'-0" @ 18"OC JOINT DOWELS FOR THE LENGTH OF THE CONSTRUCTION JOINT.
11. LAP WELDED WIRE FABRIC PER STRUCTURAL GENERAL NOTES.
12. ●—— INDICATES WELDED DRAG CONNECTION AT THE END OF BEAM. SEE 17/S6.02 FOR ADDITIONAL INFORMATION. AT CAMBERED BEAMS, DO NOT WELD UNTIL AFTER CONCRETE OVER METAL DECK HAS BEEN POURED.
13. CMU: WALL TYPES, REINFORCING SIZE AND SPACING PER PLAN. MATERIALS AND SPECIAL INSPECTION REQUIREMENTS AS PER STRUCTURAL GENERAL NOTES, UNO.
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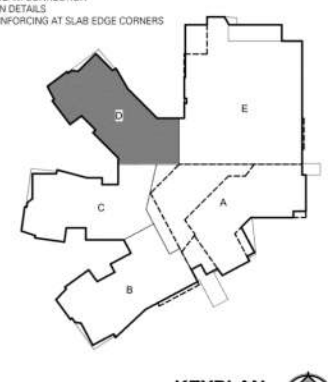
17. OPERABLE WALL POST BASE AND TOP CONNECTIONS PER 12/S6.04 AND 16/S6.04, TYPICAL UNO. TOP CONNECTION PER 11/S6.04 SIMILAR AT EXTERIOR CONDITION, TYPICAL UNO. LOCATE POST CENTERED IN WALL AND 3" CLEAR FROM DOOR JAMB.
18. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
19. TYPICAL DETAILS PER:

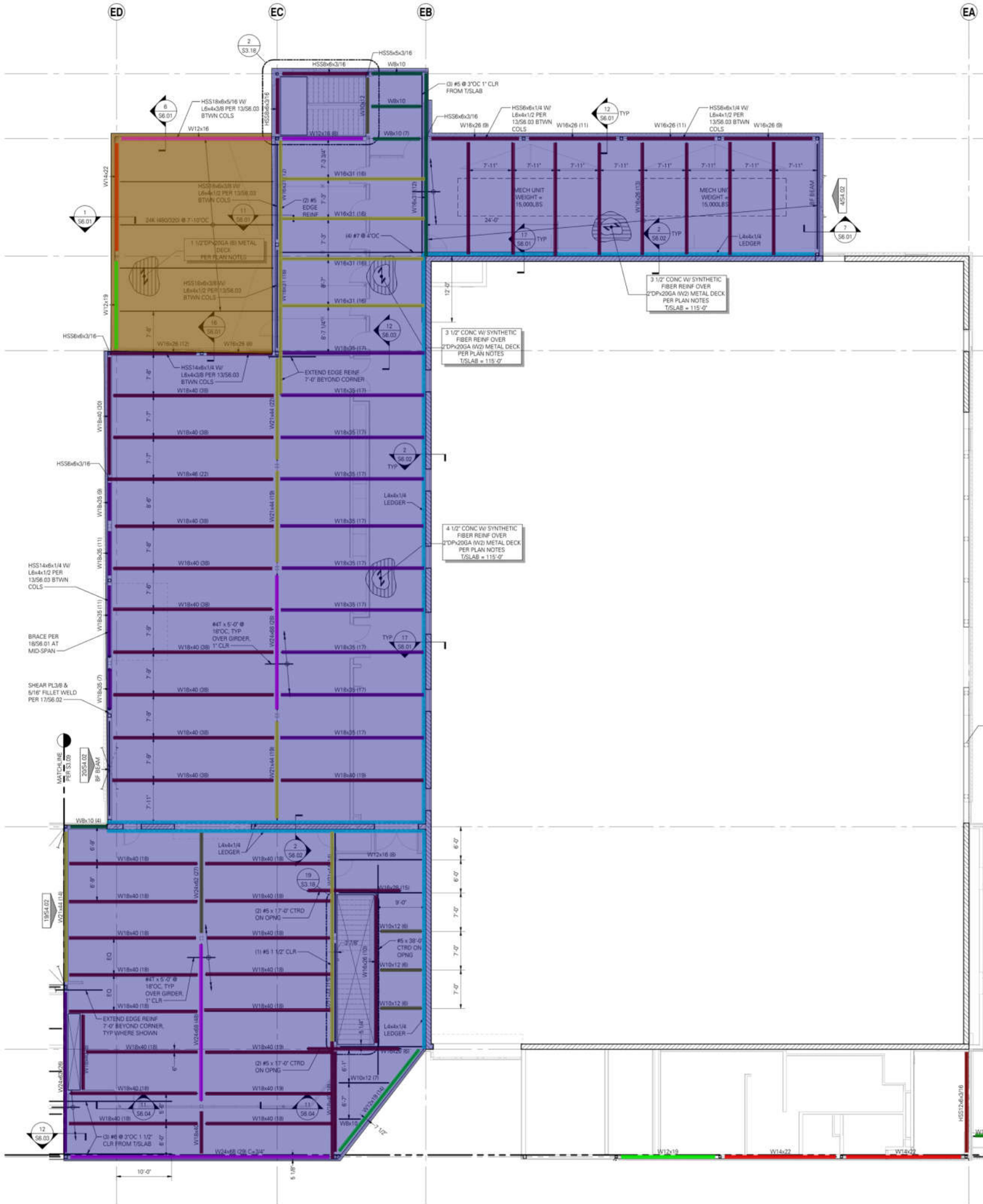
3/S6.01	TYPICAL DECK AT DISCONTINUITIES
9/S6.01	PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN
14/S6.01	TYPICAL METAL DECK OPENING REINFORCING
18/S6.01	TYPICAL BEAM FLANGE BRACE
19/S6.01	TYPICAL SLAB EDGE AT STEEL BEAM
4/S6.02	TYPICAL HSS BEAM CONNECTIONS
6/S6.02	TYPICAL COMPOSITE BEAM SHEAR STUD LAYOUT
9/S6.02	BEAM TO HSS COLUMN CONNECTIONS
16/S6.02	SKEWED BOLTED BEAM CONNECTION
17/S6.02	STEEL CONNECTION DETAILS
11/S6.03	PLAN - TYPICAL REINFORCING AT SLAB EDGE CORNERS



KEYPLAN
SCALE: NTS

FOR BID (NOT FOR CONSTRUCTION)

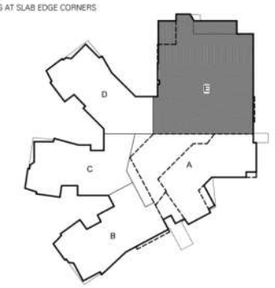
SECOND FLOOR FRAMING PLAN - AREA D
SCALE: 1/8" = 1'-0"



FLOOR FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
4. TOP OF SLAB ELEVATION (T/SLAB) = 115'-0", UNO.
5. T/STL=X'-X" INDICATES TOP OF STEEL (T/STL) ELEVATION (T/STL = B/DECK) UNO, AT GIRDERS SUPPORTING OPEN WEB STEEL JOISTS (T/STL) = -5" FOR BEARING SEAT DEPTH. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO.
6. FLOOR FRAMING SYSTEM SHALL BE OF COMPOSITE CONSTRUCTION. PROVIDE SHEAR STUDS 3/4" DIAMETER, MIN x DECK DEPTH + 1 1/2") LONG, SPACED PER 6/S6.02. NUMBERS INDICATED ON PLAN IN PARENTHESES ADJACENT TO STEEL BEAM CALLOUT INDICATE THE MINIMUM NUMBER OF STUDS REQUIRED. AT BEAMS WHERE STUD QUANTITY IS OMITTED, PROVIDE STUDS @ 12"OC MAX.
7. NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALLOUT SHOWN THUS: I400/200 INDICATES TOTAL LOAD AND LIVE LOAD (IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
8. CONCRETE OVER METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. PROVIDE REINFORCING AS SHOWN IN PLAN AND DETAILS. DECK ATTACHMENT REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
9. TYPICAL FLOOR DECK OVERHANG TO BE 4" FROM BEAM CENTERLINE, UNO.
10. CONSTRUCTION JOINTS IN CONCRETE OVER METAL DECK FLOORS TO BE COORDINATED AND APPROVED WITH ENGINEER OF RECORD. CONTRACTOR TO ASSUME #4 x 5'-0" @ 18"OC JOINT DOWELS FOR THE LENGTH OF THE CONSTRUCTION JOINT.
11. LAP WELDED WIRE FABRIC PER STRUCTURAL GENERAL NOTES.
12. ●—— INDICATES WELDED DRAG CONNECTION AT THE END OF BEAM. SEE 17/S6.02 FOR ADDITIONAL INFORMATION. AT CAMBERED BEAMS, DO NOT WELD UNTIL AFTER CONCRETE OVER METAL DECK HAS BEEN POURED.
13. CMU: WALL TYPES, REINFORCING SIZE AND SPACING PER PLAN. MATERIALS AND SPECIAL INSPECTION REQUIREMENTS AS PER STRUCTURAL GENERAL NOTES, UNO.
14. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
15. LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING AND SLAB INTERFACE WITH CMU WALLS. REQUIREMENTS ARE PER PLAN.
16. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
17. OPERABLE WALL POST BASE AND TOP CONNECTIONS PER 12/S6.04 AND 16/S6.04, TYPICAL UNO. TOP CONNECTION PER 11/S6.04 S/IMILAR AT EXTERIOR CONDITION, TYPICAL UNO. LOCATE POST CENTERED IN WALL AND 3" CLEAR FROM DOOR JAMB.
18. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
19. TYPICAL DETAILS PER:

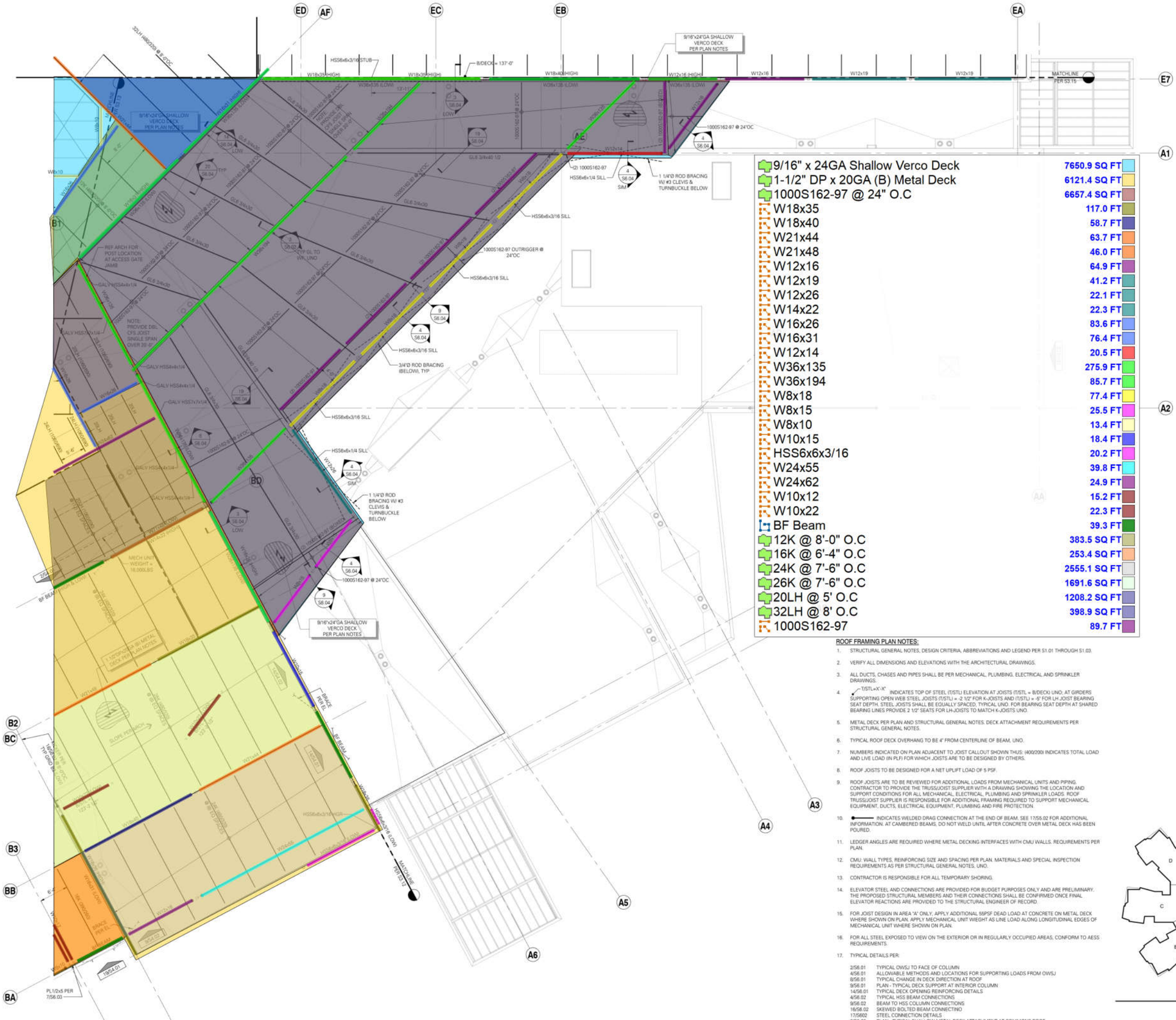
3/S6.01	TYPICAL DECK AT DISCONTINUITIES
9/S6.01	PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN
14/S6.01	TYPICAL METAL DECK OPENING REINFORCING
18/S6.01	TYPICAL BEAM FLANGE BRACE
19/S6.01	TYPICAL SLAB EDGE AT STEEL BEAM
4/S6.02	TYPICAL HSS BEAM CONNECTIONS
6/S6.02	TYPICAL COMPOSITE BEAM SHEAR STUD LAYOUT
9/S6.02	BEAM TO HSS COLUMN CONNECTIONS
16/S6.02	SKEWED BOLTED BEAM CONNECTION
17/S6.02	STEEL CONNECTION DETAILS
11/S6.03	PLAN - TYPICAL REINFORCING AT SLAB EDGE CORNERS



KEYPLAN
SCALE: NTS

SECOND FLOOR FRAMING PLAN - AREA E
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)
These drawings are incomplete and were issued as an instrument of service for the purpose of obtaining a permit or construction.

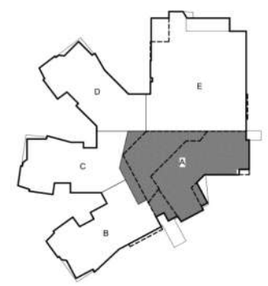


9/16" x 24GA Shallow Verco Deck	7650.9 SQ FT
1-1/2" DP x 20GA (B) Metal Deck	6121.4 SQ FT
1000S162-97 @ 24" O.C	6657.4 SQ FT
W18x35	117.0 FT
W18x40	58.7 FT
W21x44	63.7 FT
W21x48	46.0 FT
W12x16	64.9 FT
W12x19	41.2 FT
W12x26	22.1 FT
W14x22	22.3 FT
W16x26	83.6 FT
W16x31	76.4 FT
W12x14	20.5 FT
W36x135	275.9 FT
W36x194	85.7 FT
W8x18	77.4 FT
W8x15	25.5 FT
W8x10	13.4 FT
W10x15	18.4 FT
HSS6x6x3/16	20.2 FT
W24x55	39.8 FT
W24x62	24.9 FT
W10x12	15.2 FT
W10x22	22.3 FT
BF Beam	39.3 FT
12K @ 8'-0" O.C	383.5 SQ FT
16K @ 6'-4" O.C	253.4 SQ FT
24K @ 7'-6" O.C	2555.1 SQ FT
26K @ 7'-6" O.C	1691.6 SQ FT
20LH @ 5' O.C	1208.2 SQ FT
32LH @ 8' O.C	398.9 SQ FT
1000S162-97	89.7 FT

ROOF FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
4. T/STL=X'-X" INDICATES TOP OF STEEL (T/STL) ELEVATION AT JOISTS (T/STL = B/DECK) UNO; AT GIRDERS SUPPORTING OPEN WEB STEEL JOISTS (T/STL) = -2 1/2" FOR K-JOISTS AND (T/STL) = -5" FOR LH JOIST BEARING SEAT DEPTH. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO. FOR BEARING SEAT DEPTH AT SHARED BEARING LINES PROVIDE 2 1/2" SEATS FOR LH-JOISTS TO MATCH K-JOISTS UNO.
5. METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. DECK ATTACHMENT REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
6. TYPICAL ROOF DECK OVERHANG TO BE 4" FROM CENTERLINE OF BEAM, UNO.
7. NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALLOUT SHOWN THUS: (400/200) INDICATES TOTAL LOAD AND LIVE LOAD (IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
8. ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 5 PSF.
9. ROOF JOISTS ARE TO BE REVIEWED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS AND PIPING. CONTRACTOR TO PROVIDE THE TRUSS/JOIST SUPPLIER WITH A DRAWING SHOWING THE LOCATION AND SUPPORT CONDITIONS FOR ALL MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER LOADS. ROOF TRUSS/JOIST SUPPLIER IS RESPONSIBLE FOR ADDITIONAL FRAMING REQUIRED TO SUPPORT MECHANICAL EQUIPMENT, DUCTS, ELECTRICAL EQUIPMENT, PLUMBING AND FIRE PROTECTION.
10. ●——— INDICATES WELDED DRAG CONNECTION AT THE END OF BEAM. SEE 17/S5.02 FOR ADDITIONAL INFORMATION. AT CAMBERED BEAMS, DO NOT WELD UNTIL AFTER CONCRETE OVER METAL DECK HAS BEEN POURED.
11. LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING INTERFACES WITH CMU WALLS. REQUIREMENTS PER PLAN.
12. CMU: WALL TYPES, REINFORCING SIZE AND SPACING PER PLAN. MATERIALS AND SPECIAL INSPECTION REQUIREMENTS AS PER STRUCTURAL GENERAL NOTES. UNO.
13. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
14. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
15. FOR JOIST DESIGN IN AREA 'A' ONLY, APPLY ADDITIONAL 55PSF DEAD LOAD AT CONCRETE ON METAL DECK WHERE SHOWN ON PLAN. APPLY MECHANICAL UNIT WIEGHT AS LINE LOAD ALONG LONGITUDINAL EDGES OF MECHANICAL UNIT WHERE SHOWN ON PLAN.
16. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
17. TYPICAL DETAILS PER:

2/S6.01	TYPICAL OWSJ TO FACE OF COLUMN
4/S6.01	ALLOWABLE METHODS AND LOCATIONS FOR SUPPORTING LOADS FROM OWSJ
8/S6.01	TYPICAL CHANGE IN DECK DIRECTION AT ROOF
9/S6.01	PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN
14/S6.01	TYPICAL DECK OPENING REINFORCING DETAILS
4/S6.02	TYPICAL HSS BEAM CONNECTIONS
9/S6.02	BEAM TO HSS COLUMN CONNECTIONS
16/S6.02	SKEWED BOLTED BEAM CONNECTINO
17/S602	STEEL CONNECTION DETAILS
8/S8.03	PLAN - TYPICAL SHALLOW METAL DECK ATTACHMENT AT COMMONS ROOF
13/S6.03	CONTINUOUS VENEER SUPPORT OVER HEADER AT LARGE OPENINGS
19/S6.03	TYPICAL LOOSE BRICK VENEER LINTEL



KEYPLAN
SCALE: NTS

ROOF FRAMING PLAN - AREA A
SCALE: 1/8" = 1'-0"

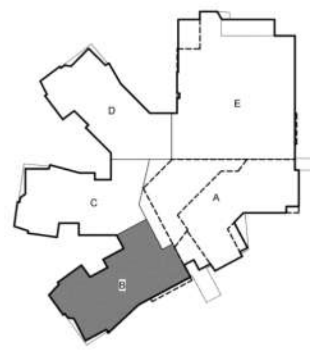
FOR BID (NOT FOR CONSTRUCTION)

1-1/2" DP x 20GA (B) Metal Deck	13681.7 SQ FT	
2" DPx 20GA (W2) Metal Deck	1214.1 SQ FT	
HSS10x4x3/16	129.8 FT	
BF Beam	87.7 FT	
W8x10	40.3 FT	
W16x26	91.2 FT	
W10x12	135.8 FT	
W10x22	44.6 FT	
W12x16	93.1 FT	
W12x14	74.8 FT	
W12x19	50.7 FT	
L4x4x1/4 Blocking	9.1 FT	
W18x35	98.6 FT	
W21x44	84.4 FT	
W16x31	59.2 FT	
W21x48	83.5 FT	
W18x40	52.8 FT	
W24x62	41.0 FT	
W24x55	80.7 FT	
W14x22	22.0 FT	
W10x15	18.9 FT	
W36x135	39.6 FT	
W12x26	0.0 FT	
HSS6x6x3/16	20.2 FT	
24K @ 7'-6" O.C	2183.7 SQ FT	
24K @ 7'-0" O.C	488.0 SQ FT	
26K @ 7'-6" O.C	6473.3 SQ FT	
26K @ 7'-9" O.C	872.8 SQ FT	
14-21 1/4-14 LH @ 7'-6" O.C	1752.9 SQ FT	
14-21 1/4-14 LH @ 5'-6" O.C	846.1 SQ FT	
10K @ 6'-0" O.C	493.1 SQ FT	

ROOF FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01 THROUGH S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
4. T/STL=X'-X" INDICATES TOP OF STEEL (T/STL) ELEVATION AT JOISTS (T/STL = B/DECK) UNO; AT GIRDERS SUPPORTING OPEN WEB STEEL JOISTS (T/STL) = -2 1/2" FOR K-JOISTS AND (T/STL) = -5" FOR LH JOIST BEARING SEAT DEPTH. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO. FOR BEARING SEAT DEPTH AT SHARED BEARING LINES PROVIDE 2 1/2" SEATS FOR LH-JOISTS TO MATCH K-JOISTS UNO.
5. METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. DECK ATTACHMENT REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
6. TYPICAL ROOF DECK OVERHANG TO BE 4" FROM CENTERLINE OF BEAM, UNO.
7. NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALLOUT SHOWN THUS: (400/200) INDICATES TOTAL LOAD AND LIVE LOAD (IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
8. ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 5 PSF.
9. ROOF JOISTS ARE TO BE REVIEWED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS AND PIPING. CONTRACTOR TO PROVIDE THE TRUSS/JOIST SUPPLIER WITH A DRAWING SHOWING THE LOCATION AND SUPPORT CONDITIONS FOR ALL MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER LOADS. ROOF TRUSS/JOIST SUPPLIER IS RESPONSIBLE FOR ADDITIONAL FRAMING REQUIRED TO SUPPORT MECHANICAL EQUIPMENT, DUCTS, ELECTRICAL EQUIPMENT, PLUMBING AND FIRE PROTECTION.
10. INDICATES WELDED DRAG CONNECTION AT THE END OF BEAM. SEE 17/S5.02 FOR ADDITIONAL INFORMATION. AT CAMBERED BEAMS, DO NOT WELD UNTIL AFTER CONCRETE OVER METAL DECK HAS BEEN POURED.
11. LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING INTERFACES WITH CMU WALLS. REQUIREMENTS PER PLAN.
12. CMU: WALL TYPES, REINFORCING SIZE AND SPACING PER PLAN. MATERIALS AND SPECIAL INSPECTION REQUIREMENTS AS PER STRUCTURAL GENERAL NOTES, UNO.
13. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
14. ELEVATOR STEEL AND CONNECTIONS ARE PROVIDED FOR BUDGET PURPOSES ONLY AND ARE PRELIMINARY. THE PROPOSED STRUCTURAL MEMBERS AND THEIR CONNECTIONS SHALL BE CONFIRMED ONCE FINAL ELEVATOR REACTIONS ARE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.
15. FOR JOIST DESIGN IN AREA 'A' ONLY, APPLY ADDITIONAL 55PSF DEAD LOAD AT CONCRETE ON METAL DECK WHERE SHOWN ON PLAN. APPLY MECHANICAL UNIT WIEGHT AS LINE LOAD ALONG LONGITUDINAL EDGES OF MECHANICAL UNIT WHERE SHOWN ON PLAN.
16. FOR ALL STEEL EXPOSED TO VIEW ON THE EXTERIOR OR IN REGULARLY OCCUPIED AREAS, CONFORM TO AESS REQUIREMENTS.
17. TYPICAL DETAILS PER:

2/S6.01	TYPICAL OWSJ TO FACE OF COLUMN
4/S6.01	ALLOWABLE METHODS AND LOCATIONS FOR SUPPORTING LOADS FROM OWSJ
8/S6.01	TYPICAL CHANGE IN DECK DIRECTION AT ROOF
9/S6.01	PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN
14/S6.01	TYPICAL DECK OPENING REINFORCING DETAILS
4/S6.02	TYPICAL HSS BEAM CONNECTIONS
9/S6.02	BEAM TO HSS COLUMN CONNECTIONS
16/S6.02	SKEWED BOLTED BEAM CONNECTINO
17/S602	STEEL CONNECTION DETAILS
8/S6.03	PLAN - TYPICAL SHALLOW METAL DECK ATTACHMENT AT COMMONS ROOF
13/S6.03	CONTINUOUS VENEER SUPPORT OVER HEADER AT LARGE OPENINGS
19/S6.03	TYPICAL LOOSE BRICK VENEER LINTEL



KEYPLAN

SCALE: NTS

ROOF FRAMING PLAN - AREA B

SCALE: 1/8" = 1'-0"

HSS10x4x3/16	133.5 FT	■
W16x26	96.4 FT	■
BF Beam	58.3 FT	■
W8x10	212.5 FT	■
W12x14	62.9 FT	■
W12x16	56.8 FT	■
W10x12	41.8 FT	■
W14x22	53.0 FT	■
W12x19	55.9 FT	■
W16x31	72.5 FT	■
W12x30	89.5 FT	■
L4x4x1/4 Blocking	22.3 FT	■
L6x6x3/8 Blocking	14.5 FT	■
W21x44	117.2 FT	■
W18x40	55.4 FT	■
W10x22	10.9 FT	■
W10x15	13.3 FT	■
W18x35	73.0 FT	■
W21x48	56.8 FT	■
W21x50	23.9 FT	■
W10x22	33.6 FT	■
W24x62	39.8 FT	■
W27x84	24.9 FT	■
1-1/2" DP x 20GA (B) Metal Deck	11559.0 SQ FT	■
2" DPx 20GA (W2) Metal Deck	2010.6 SQ FT	■
26K @ 7'-10" O.C	917.5 SQ FT	■
14 K @ 7'-10" O.C	332.7 SQ FT	■
26K @ 8'-0" O.C	1169.7 SQ FT	■
26K @ 6'-2" O.C	435.7 SQ FT	■
26K @ 7'-6" O.C	3398.8 SQ FT	■
14-21 1/4-14 LH @ 7'-11" O.C	2728.5 SQ FT	■
24K @ 7'-0" O.C	1215.0 SQ FT	■
20LH @ 5' O.C	764.0 SQ FT	■
24LH @ 5'-6" O.C	849.6 SQ FT	■
10K @ 6'-0" O.C	714.5 SQ FT	■
12K @ 7'-1" O.C	343.0 SQ FT	■
12K @ 8'-0" O.C	376.2 SQ FT	■

ROOF FRAMING PLAN NOTES:

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3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
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10. ●——— INDICATES WELDED DRAG CONNECTION AT THE END OF BEAM. SEE 17/S5.02 FOR ADDITIONAL INFORMATION. AT CAMBERED BEAMS, DO NOT WELD UNTIL AFTER CONCRETE OVER METAL DECK HAS BEEN POURED.
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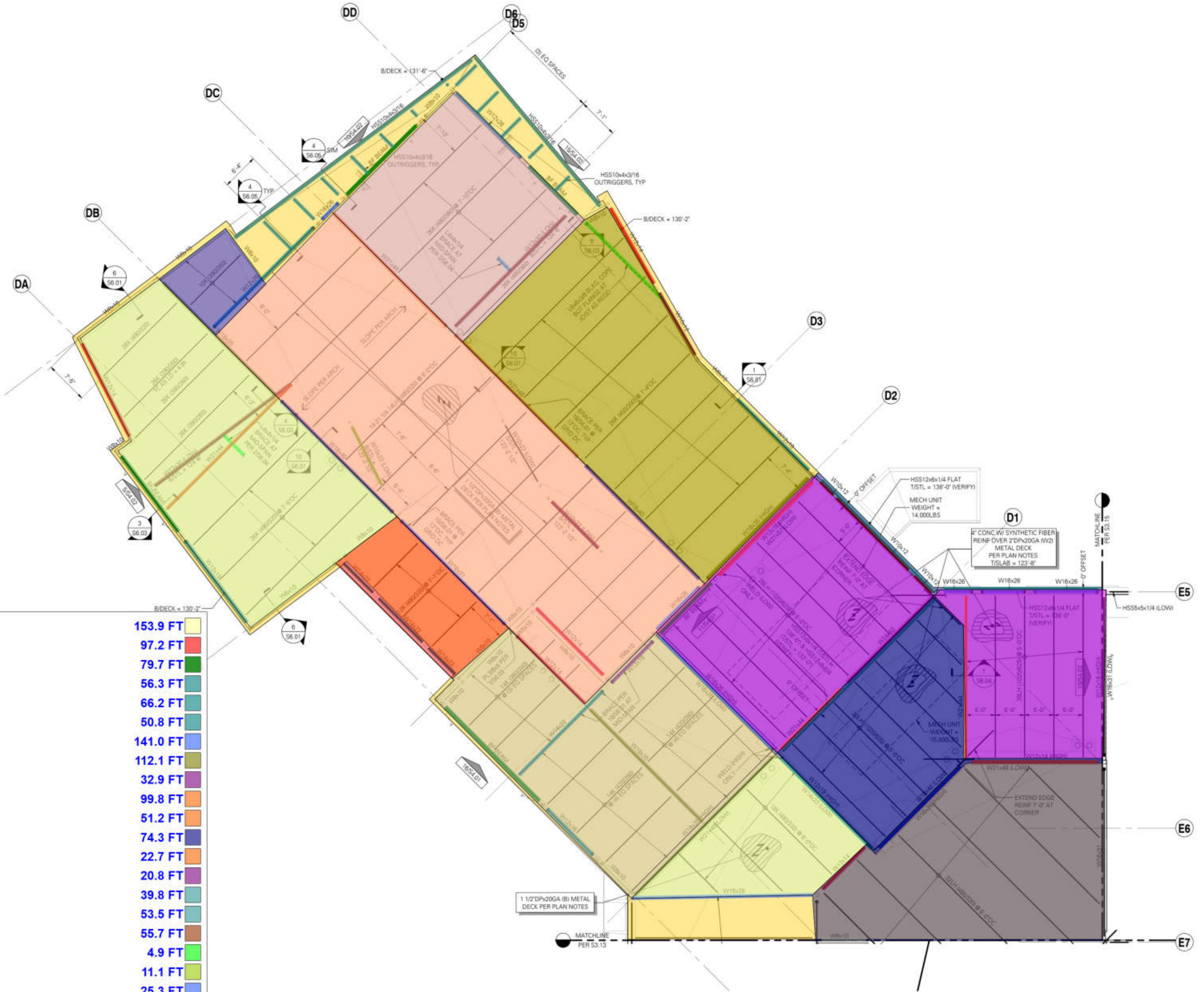
14/S6.01	TYPICAL DECK OPENING REINFORCING DETAILS
4/S6.02	TYPICAL HSS BEAM CONNECTIONS
9/S6.02	BEAM TO HSS COLUMN CONNECTIONS
16/S8.02	SKEWED BOLTED BEAM CONNECTINO
17/S602	STEEL CONNECTION DETAILS
8/S6.03	PLAN - TYPICAL SHALLOW METAL DECK ATTACHMENT AT COMMONS ROOF
13/S6.03	CONTINUOUS VENEER SUPPORT OVER HEADER AT LARGE OPENINGS
19/S6.03	TYPICAL LOOSE BRICK VENEER LINTEL

KEYPLAN
SCALE: NTS

ROOF FRAMING PLAN - AREA C
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)

These drawings have been released at the request of the client for the purpose of bidding. These drawings are not intended for purposes of obtaining a permit or construction.



W8x10	153.9 FT	
W12x14	97.2 FT	
BF Beam	79.7 FT	
W12x19	56.3 FT	
W14x22	66.2 FT	
W12x26	50.8 FT	
W16x26	141.0 FT	
W18x35	112.1 FT	
W12x16	32.9 FT	
W21x44	99.8 FT	
W21x48	51.2 FT	
W18x40	74.3 FT	
W21x57	22.7 FT	
W24x62	20.8 FT	
HSS12x8x1/4	39.8 FT	
HSS12x6x1/4	53.5 FT	
W12x30	55.7 FT	
L4x4x1/4 Blocking	4.9 FT	
W10x22	11.1 FT	
W16x31	25.3 FT	
W10x22	11.3 FT	
W10x12	36.9 FT	
26K @ 7'-6" O.C	1466.7 SQ FT	
12K @ 7'-1" O.C	356.5 SQ FT	
14 K @ 6'-0" O.C	1352.5 SQ FT	
14-21 1/4-14 LH @ 8'-0" O.C	2590.2 SQ FT	
HSS10x4x3/16	131.6 FT	
L6x6x3/8 Blocking	18.5 FT	
10K @ 6'-0" O.C	167.7 SQ FT	
26K @ 7'-10" O.C	918.0 SQ FT	
24K @ 7'- 4" O.C	1653.8 SQ FT	
28LH @ 5' O.C	1810.9 SQ FT	
20LH @ 5' O.C	758.0 SQ FT	
18K @ 8'-0" O.C	517.4 SQ FT	
32LH @ 8' O.C	1226.3 SQ FT	
1-1/2" DP x 20GA (B) Metal Deck	11063.8 SQ FT	
2" DPx 20GA (W2) Metal Deck	2642.3 SQ FT	

ROOF FRAMING PLAN NOTES:

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4/S6.02	TYPICAL HSS BEAM CONNECTIONS
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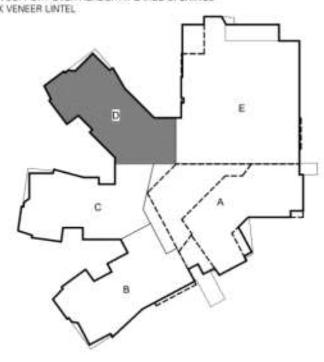
13/S6.03	CONTINUOUS VENEER SUPPORT OVER HEADER AT LARGE OPENINGS
19/S6.03	TYPICAL LOOSE BRICK VENEER LINTEL



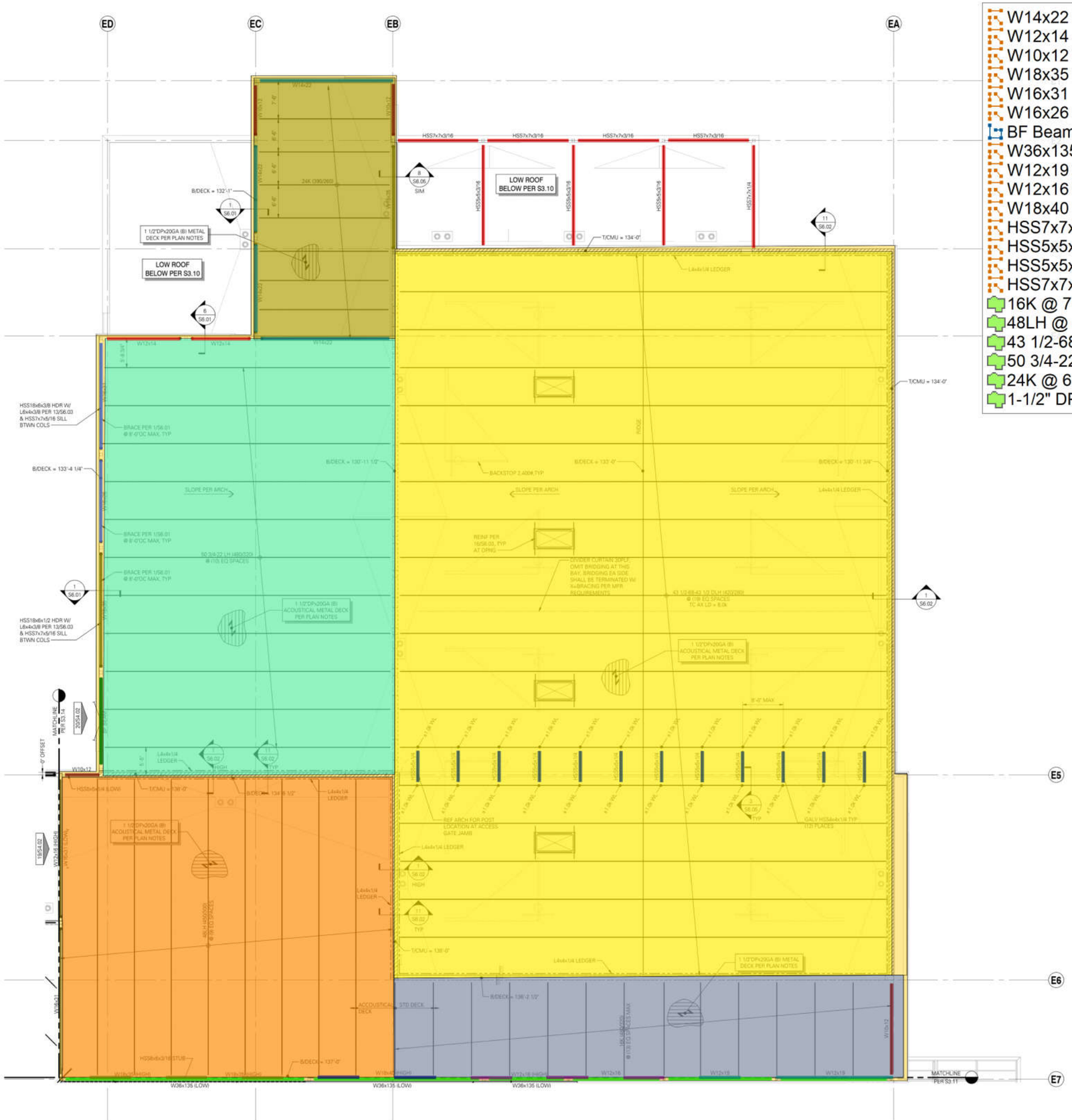
KEYPLAN

SCALE: NTS

FOR BID (NOT FOR CONSTRUCTION)

ROOF FRAMING PLAN - AREA D

SCALE: 1/8" = 1'-0"



W14x22	85.8 FT
W12x14	26.0 FT
W10x12	44.7 FT
W18x35	67.1 FT
W16x31	20.9 FT
W16x26	16.2 FT
BF Beam	17.1 FT
W36x135	152.4 FT
W12x19	31.2 FT
W12x16	24.5 FT
W18x40	16.5 FT
HSS7x7x3/16	63.7 FT
HSS5x5x3/16	59.2 FT
HSS5x5x1/4	73.7 FT
HSS7x7x1/4	20.2 FT
16K @ 7'-10" O.C	1994.7 SQ FT
48LH @ 7'-4" O.C	3854.0 SQ FT
43 1/2-68-43 1/2 DLH @ 7'-6" O.C	13977.5 SQ FT
50 3/4-22 LH @ 7'-6" O.C	4920.9 SQ FT
24K @ 6'- 6" O.C	1426.0 SQ FT
1-1/2" DP x 20GA (B) Metal Deck	26843.0 SQ FT

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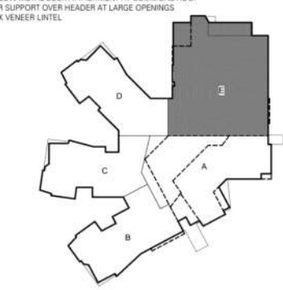

KEYPLAN
SCALE: NTS

ROOF FRAMING PLAN - AREA E
SCALE: 1/8" = 1'-0"

FOR BID (NOT FOR CONSTRUCTION)