

DEVELOPMENT LENGTH SCHEDULE (INCHES)																											SEE NOTE 5				
BAR SIZE	MINIMUM BAR SPACING (INCHES) [MAX(1",db) + db] NOTE 2	TENSION																COMPRESSION													
		NOTED AS Ld ON DRAWINGS												NOTED AS Ldh ON DRAWINGS				NOTED AS Ldc ON DRAWINGS													
		Fc (PSI)												Fc (PSI)				Fc (PSI)													
		3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000	3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000	3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000
#4	1.500	22	19	17	16	15	14	13	12	12	12	11	10	9	8	8	7	7	6	6	6	11	10	9	9	9	9	9	9	9	9
#5	1.625	28	24	22	20	18	17	16	15	15	15	14	12	11	10	9	9	8	8	8	8	17	12	12	12	12	12	12	12	12	12
#6	1.750	33	29	26	24	22	21	19	18	18	18	17	15	13	12	11	11	10	9	9	9	17	15	14	14	14	14	14	14	14	14
#7	1.875	48	42	38	34	32	30	28	27	27	27	20	17	15	14	13	12	12	11	11	11	20	17	16	16	16	16	16	16	16	16
#8	2.000	55	48	43	39	36	34	32	30	30	30	22	19	17	16	15	14	13	12	12	12	22	19	18	18	18	18	18	18	18	18
#9	2.375	62	54	48	44	41	38	36	34	34	34	25	22	20	18	17	16	15	14	14	14	25	22	21	21	21	21	21	21	21	21
#10	2.625	70	61	54	50	46	43	41	39	39	39	28	25	22	20	19	18	17	16	16	16	28	25	23	23	23	23	23	23	23	23
#11	2.875	78	67	60	55	51	48	45	43	43	43	31	27	24	22	21	19	18	17	17	17	31	27	26	26	26	26	26	26	26	26

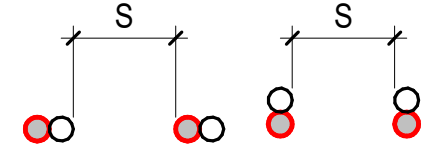
DEVELOPMENT LENGTH SCHEDULE NOTES:

1. WHERE MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH, MULTIPLY L_d BY 1.3
2. WHERE STIRRUPS OR TIES ARE NOT PRESENT THROUGHOUT L_d , MINIMUM BAR SPACING MUST BE INCREASED TO $[\text{MAX}(1", db) + 2db]$ FOR SCHEDULED VALUES TO BE APPLICABLE.

SLAB/SLAB-ON-GRADE REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)							SEE NOTE 5
BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS)					
		f _c = 3 KSI	f _c = 4 KSI	f _c = 5 KSI	f _c = 6 KSI	f _c = 7 KSI	f _c = 8 KSI
#4	5.500	22	19	17	16	14	14
#5	5.375	32	28	25	23	21	20
#6	5.250	43	37	34	31	28	27
#7	5.125	69	60	54	49	46	43
#8	5.000	86	74	67	61	56	53

LAP SPLICE NOTES:

1. TABULATED VALUES ARE PER ACI 318-11 REQUIREMENTS FOR NORMALWEIGHT CONCRETE. THE VALUES ON THIS SHEET DO NOT APPLY TO LIGHTWEIGHT CONCRETE
2. SEE TYPICAL DETAILS FOR CLEAR COVER
3. MINIMUM BAR SPACING DIAGRAM - "S"



- FIRST BAR
- SECOND BAR PLACED OR SPLICE BAR

4. WHERE ANY SPECIAL CONDITIONS DIFFER FROM THE CLEAR COVER SHOWN ON THE TYPICAL DETAILS OR DIFFER FROM PROVIDED SCHEDULED BAR SIZE MINIMUM SPACING AND/OR f_c , LENGTHS SHALL BE ADJUSTED ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
5. TABULATED VALUES ARE FOR NON-EPOXY COATED GRADE 60 REINFORCEMENT IN NORMALWEIGHT CONCRETE

FOR EPOXY COATED REINFORCEMENT:

MULTIPLY Ld BY 1.5
MULTIPLY Ldh BY 1.2
Ldc IS NOT AFFECTED
MULTIPLY LTS BY 1.3 FOR "TOP BARS"
MULTIPLY LTS BY 1.5 FOR ALL OTHER
REINFORCEMENT

FOR GRADE 75 REINFORCEMENT:
MULTIPLY L_d , L_{dh} , L_{dc} , AND L_{ts} BY 1.25
MULTIPLY L_{cs} BY 1.45

6. WHERE BARS OF DIFFERENT SIZES ARE LAP SPICED IN TENSION, THE TENSION LAP SPICE LENGTH (LTS) SHALL BE THE LARGER OF THE TENSION DEVELOPMENT LENGTH (L_d) OF THE LARGER BAR AND THE TENSION LAP SPICE LENGTH OF THE SMALLER BAR.
7. WHERE BARS OF DIFFERENT SIZES ARE LAP SPICED IN COMPRESSION, THE COMPRESSION LAP LENGTH (LCS) SHALL BE THE LARGER OF THE COMPRESSION DEVELOPMENT LENGTH (L_{dc}) OF THE LARGER BAR OR THE COMPRESSION LAP SPICE LENGTH OF THE SMALLER BAR.
8. "TOP BARS" ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPICE
"OTHER BARS" ARE ALL BARS FOR WHICH THIS DOES NOT APPLY

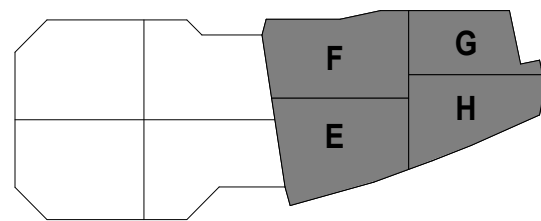
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PROJECT NAME

DCU Center Slab Repair

PROJECT ADDRESS:
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ISSUED NAME

BID SET

ISSUED DATE

ISSUED DATE
20080120

06/23/20

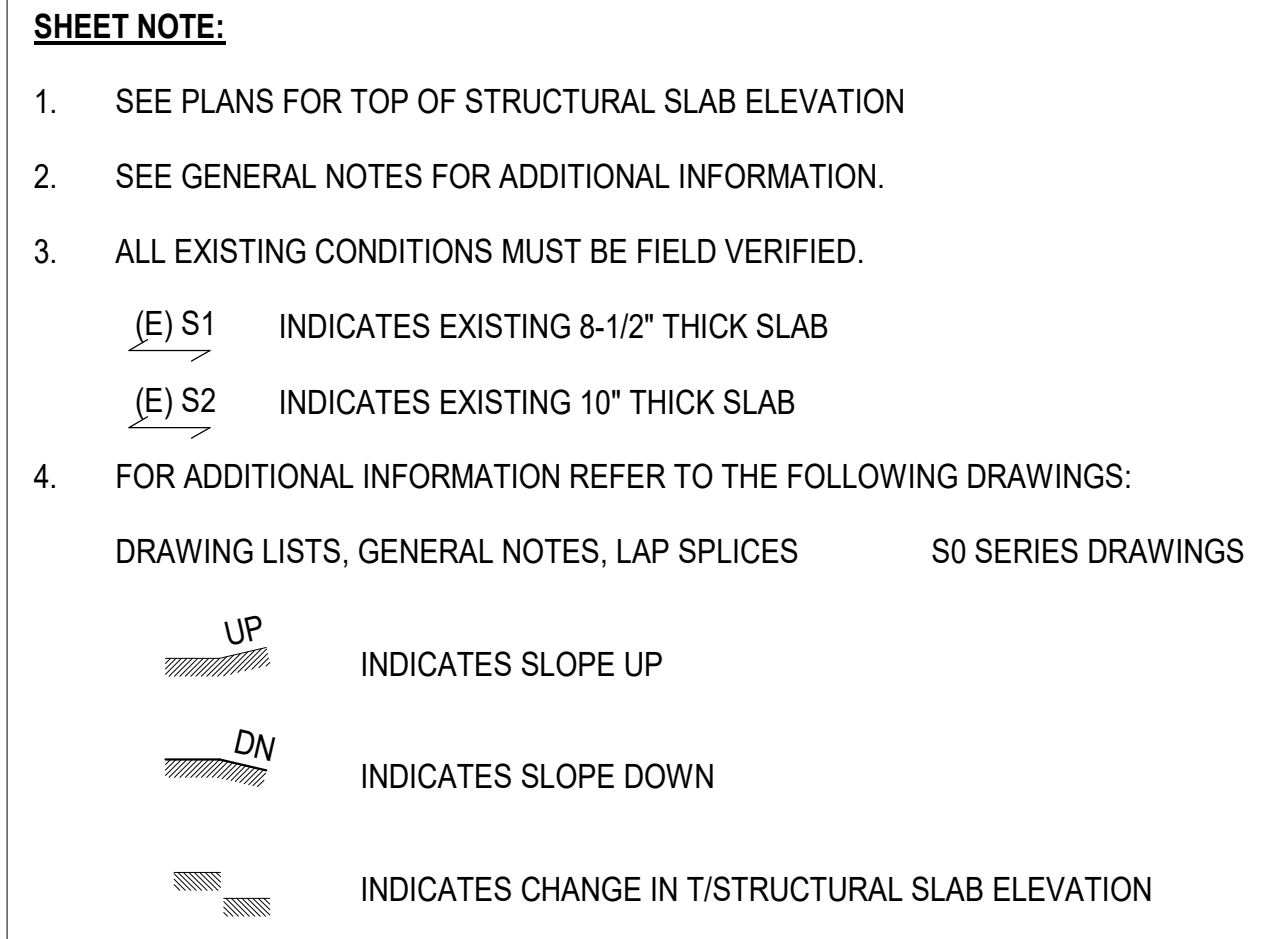
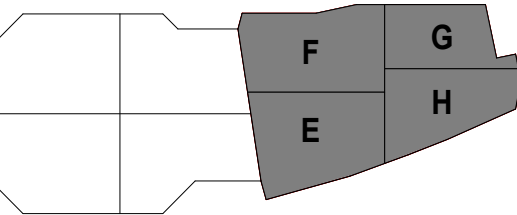
PROJECT NUMBER

TT1234.5

RC LAP SPLICES SCHEDULE

SHEET NUMBER

S0-001

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S1-100

