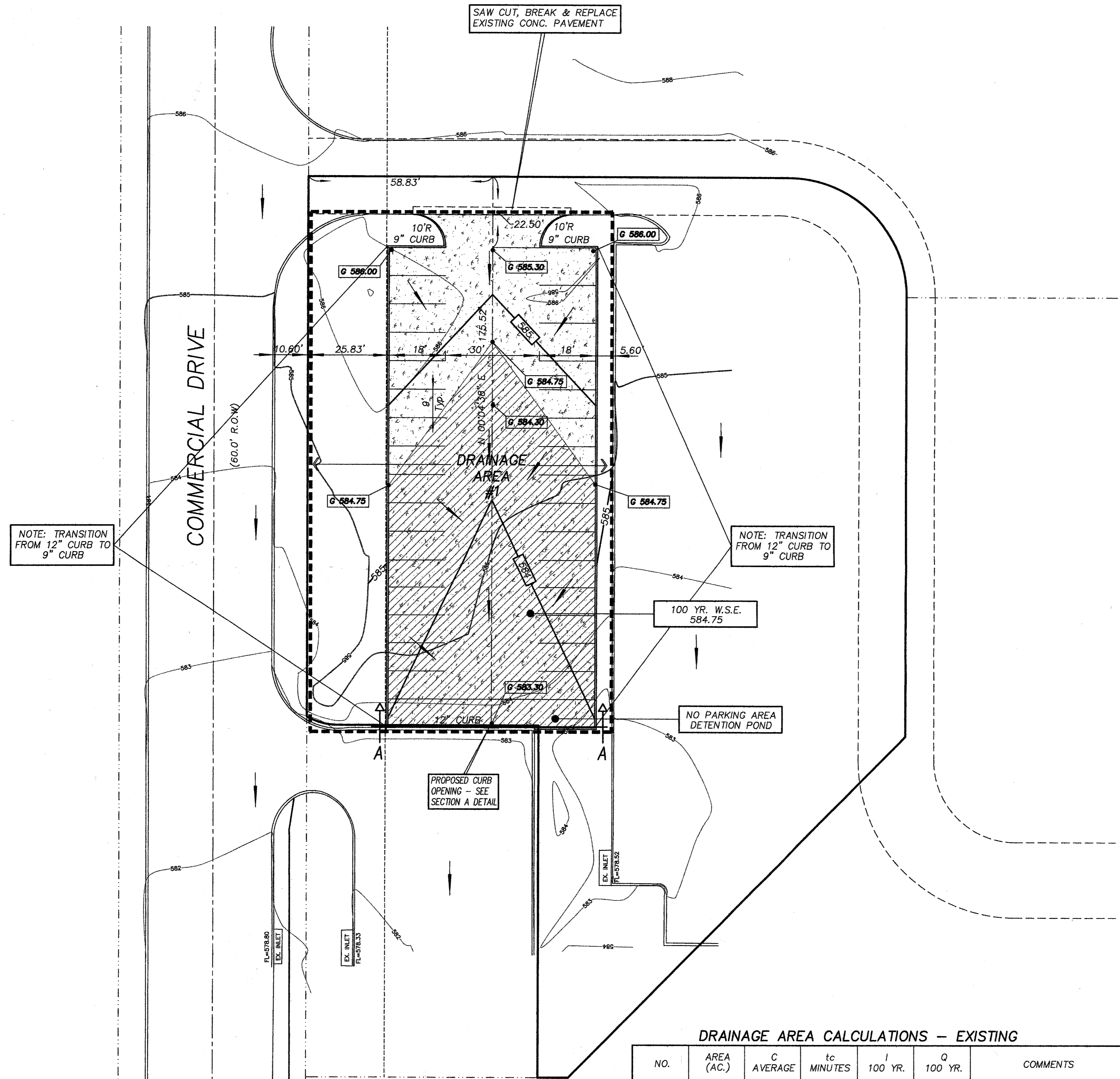


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\$DATES\$
\$FILE\$



NOTE: TRANSITION FROM 12" CURB TO 9" CURB

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DRAINAGE AREA CALCULATIONS - EXISTING

NO.	AREA (AC.)	C AVERAGE	tc MINUTES	I 100 YR.	Q 100 YR.	COMMENTS
1	0.43	0.30	10	8.74	1.13	Q = C x I x A

DRAINAGE AREA CALCULATIONS - PROPOSED

NO.	AREA (AC.)	C AVERAGE	tc MINUTES	I 100 YR.	Q 100 YR.	COMMENTS
1	0.43	0.90	10	8.74	3.38	Q = C x I x A

TO BE DETAINED - 3.38 - 1.13 = 2.25 c.f.s.

GENERAL NOTES:
PAVING, GRADING AND DRAINAGE

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE TOWN OF ADDISON AND NCTCOG STANDARDS AND SPECIFICATIONS.
2. ALL PAVEMENT RADII SHALL BE 10 FOOT UNLESS OTHERWISE NOTED ON THE PLANS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. NOTIFY CITY AND FRANCHISE UTILITIES MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
4. ALL FILL SHALL BE COMPACTED TO 95% PROCTOR DENSITY IN A MAXIMUM OF SIX INCH LIFTS.
5. MINIMUM CONCRETE STRENGTH ALLOWED IS 3500 P.S.I.

LEGEND

- 550 EX. CONTOUR LINE
- G 538.7 GUTTER ELEVATION
- DIRECTIONAL FLOW ARROW
- 584 PROPOSED CONTOUR
- DRAINAGE AREA
- LIMITS 100 YR WSE

DETENTION DISCHARGE CALCULATIONS

Q100(EXISTING) = C x I x A
 Q100 = 0.30 x 8.74 x 0.43
 Q100 = 1.13 cfs

DETENTION DISCHARGE DESIGN

Q = 3.33 x L x H 2/3
 L = 1.13 / 3.33 x 1 2/3 = 0.34' x 12" = 4.08"
 Q100 = 1.49 / 0.035 x 0.395 x 0.11 x 0.33
 Q100 = 0.57 cfs
 DESIGN 2 - 6" x 9" CURB OPENINGS
 2 x .057 cfs = 1.14 cfs

DETENTION LIMITS CALCULATIONS

75' x 66' x 0.75 = 3712.5
 66' x 40' x .75 = 990
 4702.25 c f

REQUIRED - 3799 c f
 PROVIDED - 4702.25 c f

ELEV.	AREA (SF)	VOLUME (CF)	WSE 100
584.75	6270	4702	584.75

Q in = 0.30 x 0.43 x 8.74 = 1.13 cfs - MAX. OUTFLOW
 Q DEV = 0.90 x 0.43 x 8.74 = 3.38 cfs

tc min.	I 100	CA	Q100
10	8.74	0.387	3.38
20	6.2	0.387	2.40
30	5.2	0.387	2.01
40	4.7	0.387	1.81
50	4.2	0.387	1.62
60	3.8	0.387	1.47

STORAGE 10 = IN 20 X 3.38 X 60 = 4056 c f
 OUT = 0.50 X 20 X 1.13 X 60 = 678 = 3378 c f

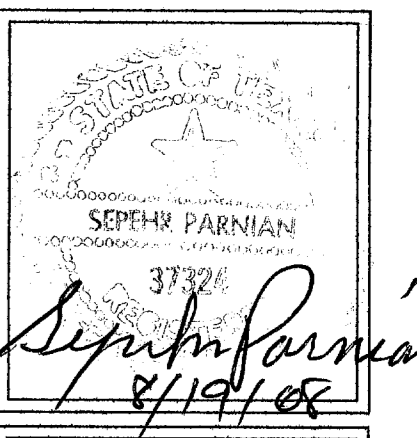
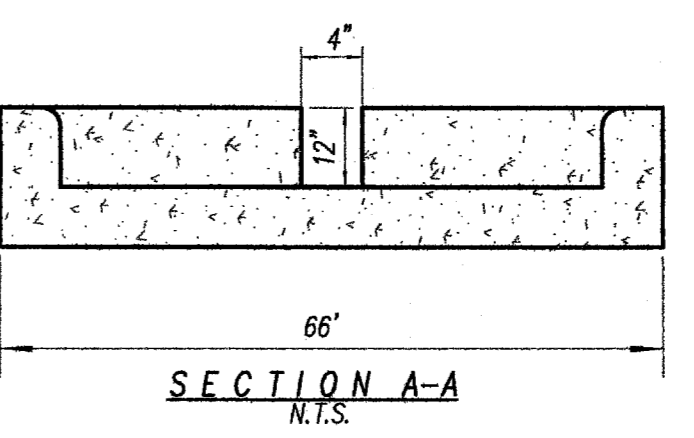
STORAGE 20 = 20 X 2.40 X 60 = 4320 c f
 OUT = 0.50 X 30 X 1.13 X 60 = 1017 c f = 3303 c f

STORAGE 30 = 40 X 2.01 X 60 = 4824 c f
 OUT = 0.50 X 40 X 1.13 X 60 = 1350 c f = 3468 c f

STORAGE 40 = 50 X 1.81 X 60 = 5430 c f
 OUT = 0.50 X 50 X 1.13 X 60 = 1695 c f = 3735 c f

STORAGE 50 = 60 X 1.62 X 60 = 5832 c f
 OUT = 0.50 X 60 X 1.13 X 60 = 2034 c f = 3790 c f

STORAGE 60 = 70 X 1.47 X 60 = 6172 c f
 OUT 0.50 X 70 X 1.13 X 60 = 2373 c f = 3799 c f



NO.	DATE	REVISIONS

201 JOHNSON ST. SUITE 303
 ALEXANDRIA, LOUISIANA 71301
 PHONE NO. 888-638-7395
 9401 LBJ FRWY., SUITE 300
 DALLAS, TEXAS 75243
 PHONE NO. 214-343-1210
 FAX NO. 214-343-3885



DIVERSE ENGINEERING CONCEPTS, INC.
 5401 CHANNING LAKE
 BEDFORD, TEXAS 76021
 SEPEHR PARNIAN, P.E.
 214-727-5261

PILLAR COMMERCIAL
 7920 BELTLINE ROAD - SUITE 130
 DALLAS, TEXAS 75254
 972-386-0614

WELLS FARGO TOWER PARKING IMPROVEMENTS

EJES PROJ NO.:	DESIGNED BY:	CHECK BY:	DRAWN BY:	DATE:	SCALE:
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