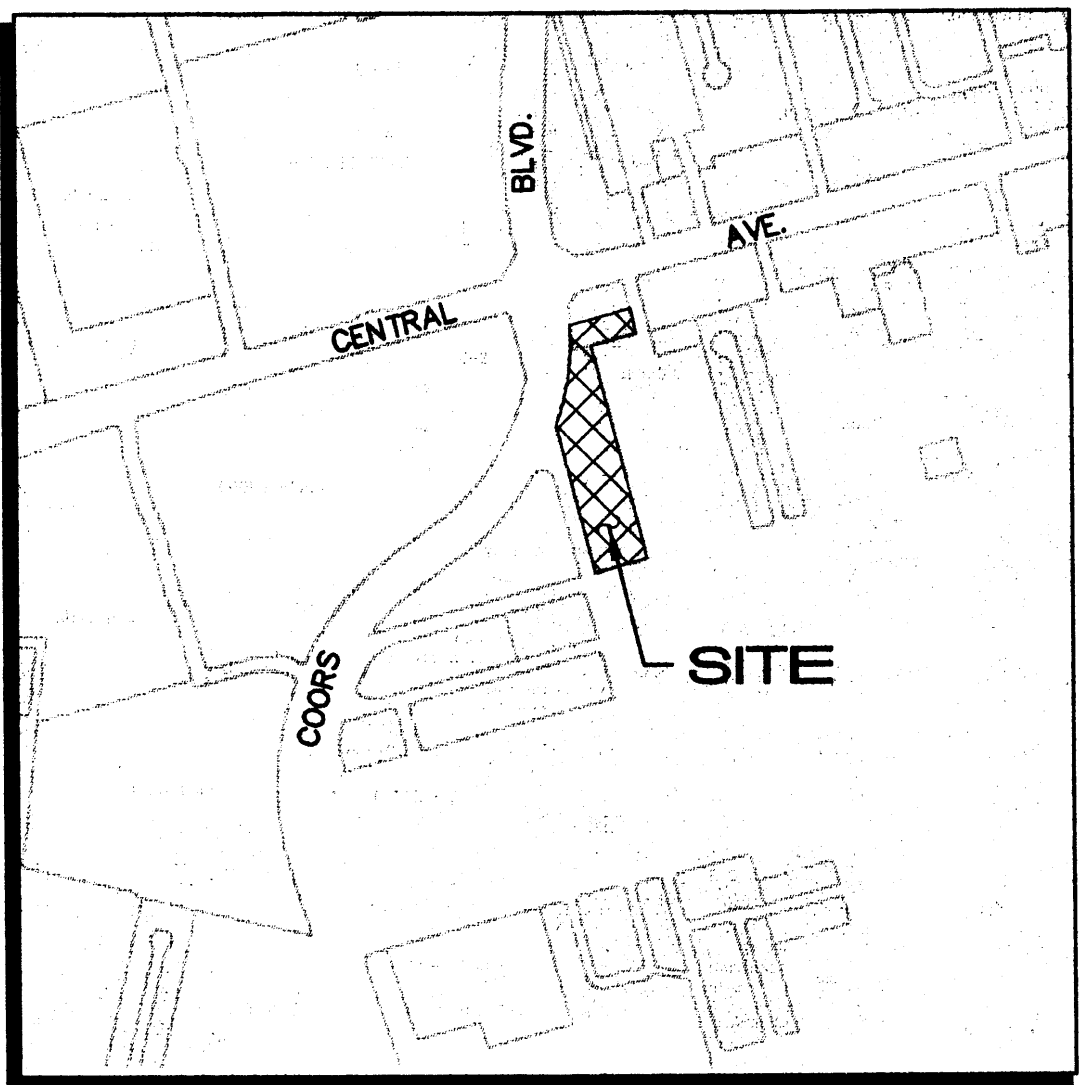
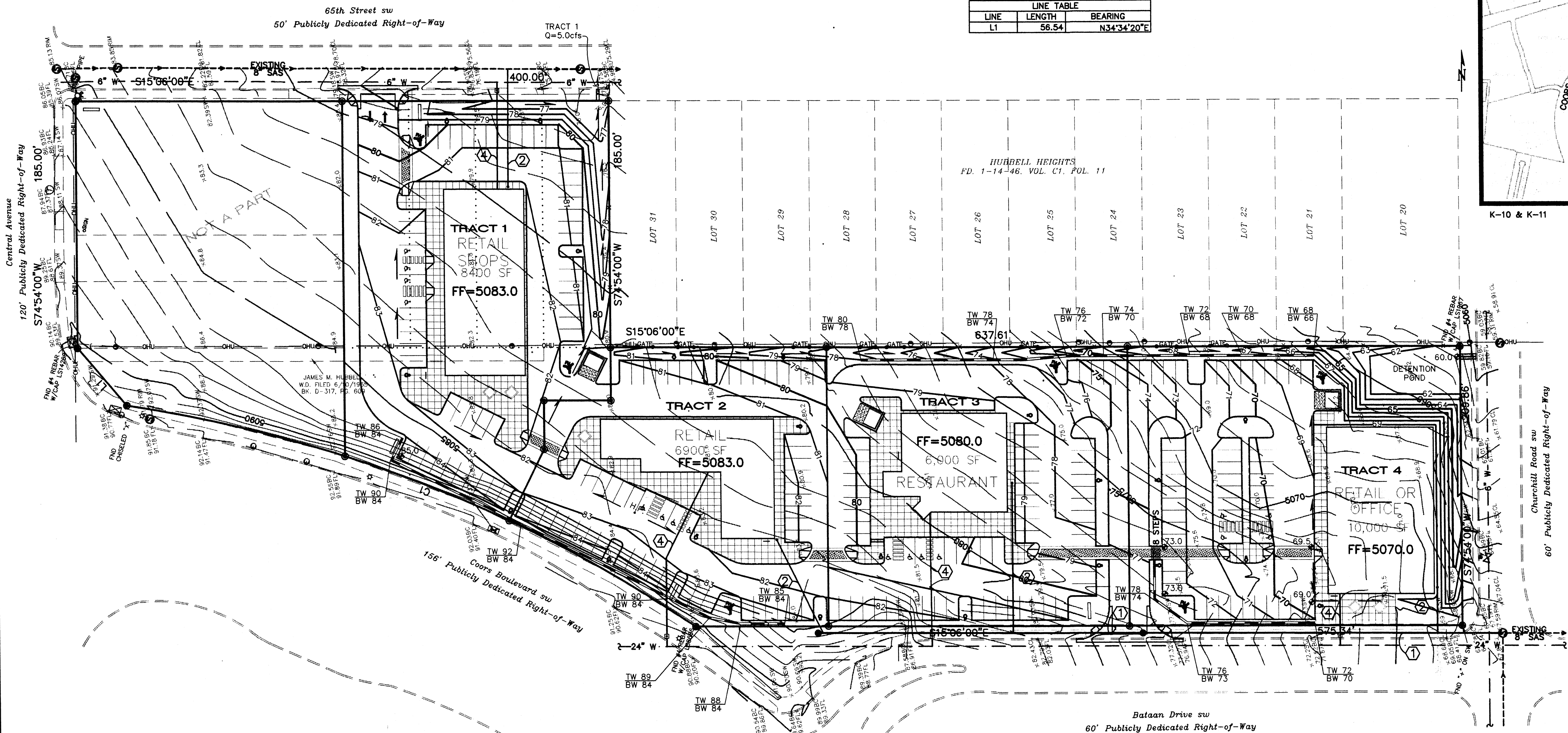


CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	1032.93'	460.99'	25°34'14"	N06°17'32"E	457.17'

LINE TABLE		
LINE	LENGTH	BEARING
L1	56.54	N34°34'20"E



K-10 & K-11
VICINITY MAP
1"=750'±



DRAINAGE DISCUSSION:

SITE AREA: 4.44 ACRES ZONE: 1
THE SITE IS VACANT, COMPACTED EARTH AND GRAVEL.
TRACT 1 (1.25 ACRES) PRESENTLY DRAINS TO 65th ST SW.
TRACTS 2-4 (0.90, 1.09, & 1.20 ACRES) DRAIN TO CHURCHILL RD SW. CROSS-LOT ACCESS & DRAINAGE EASEMENTS ARE PROPOSED.

EXISTING HYDROLOGY:
75% A, 5% B, & 20% C
 $Q = (4.44 \text{ Ac})(1.64 \text{ cfs/Ac}) = 7.3 \text{ cfs}$

PROPOSED HYDROLOGY: FOUR BUILDINGS ARE PROPOSED AS SHOWN ALONG WITH ASSOCIATED PARKING & LANDSCAPING. TRACT 1 WILL CONTINUE TO DRAIN TO 65th ST SW, WHILE TRACTS 2-4 WILL DISCHARGE TO CHURCHILL RD SW.

LAND TREATMENT:
TRACT 1: 8% B, 12% C, & 80% D
 $Q = (1.25)(4.00) = 5.0 \text{ cfs (TO 65th ST SW)}$

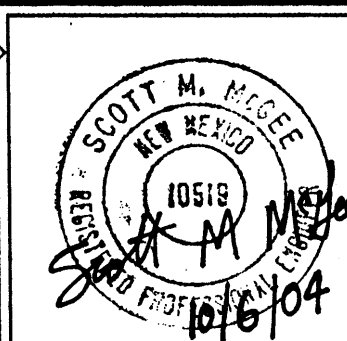
TRACT 2-4: 10% B, 10% C, & 80% D
 $Q = (3.19)(3.99) = 12.7 \text{ cfs}$

KEYED UTILITY NOTES

- PROPOSED 8" SANITARY SEWER MAIN.
- PROPOSED 4" SAS SERVICE.
- PROPOSED PUBLIC FIRE HYDRANT.
- PROPOSED WATER SERVICE/METER.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- FLOW ARROW
- FINISH FLOOR ELEVATION
- SIDEWALK CULVERT
- TOP OF CURB ELEVATION
- SINGLE WATER METER & BOX
- GATE VALVE W/ VALVE BOX
- FIRE HYDRANT
- SAS MANHOLE
- WATER LINE W/ FITTING



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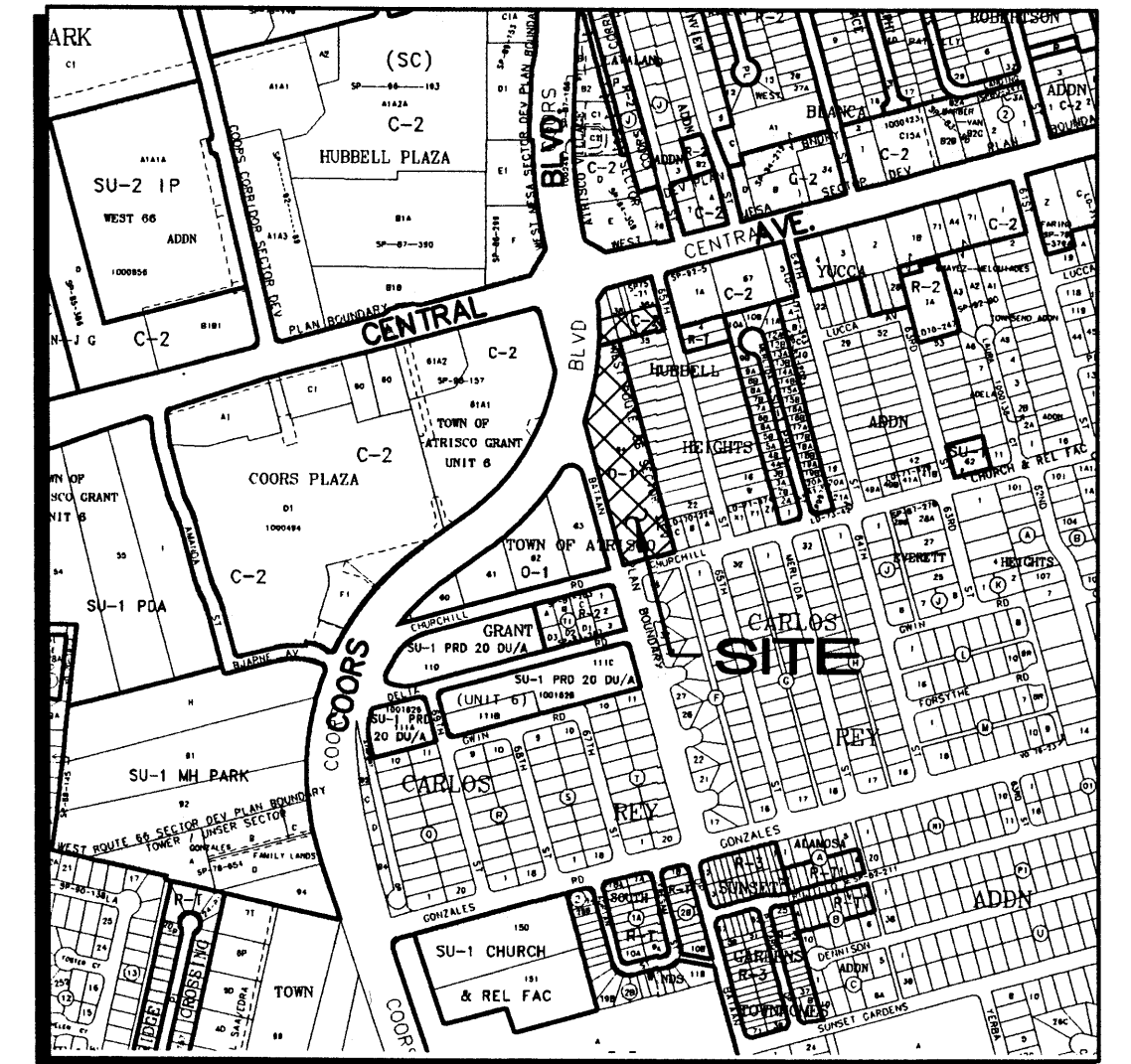
HUBBELL HEIGHTS SHOPS

CONCEPTUAL GRADING AND UTILITY PLAN

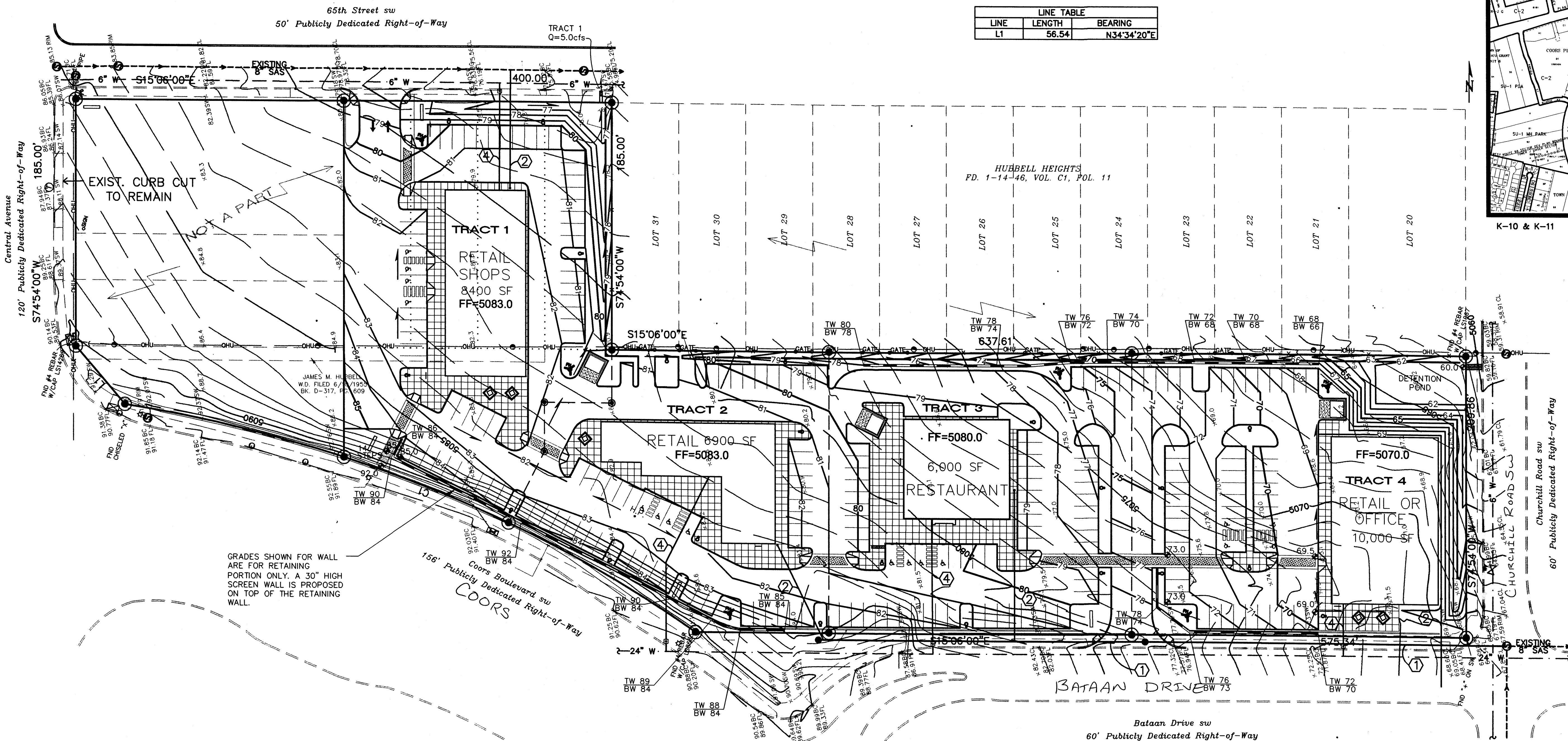
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CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	1032.93'	460.99'	25°34'14"	N06°17'32"E	457.17'

LINE TABLE		
LINE	LENGTH	BEARING
L1	56.54	N34°34'20"E



K-10 & K-11
VICINITY MAP
1"=750'±



GRADES SHOWN FOR WALL ARE FOR RETAINING PORTION ONLY. A 30" HIGH SCREEN WALL IS PROPOSED ON TOP OF THE RETAINING WALL.

DRAINAGE DISCUSSION:

SITE AREA: 4.44 ACRES ZONE: 1
THE SITE IS VACANT COMPACTED EARTH AND GRAVEL.
TRACT 1 (1.25 ACRES) PRESENTLY DRAINS TO 65th ST SW.
TRACTS 2-4 (0.90, 1.09, & 1.20 ACRES) DRAIN TO CHURCHILL RD SW. CROSS-LOT ACCESS & DRAINAGE EASEMENTS ARE PROPOSED

EXISTING HYDROLOGY:

75% A, 5% B, & 20% C
 $Q = (4.44 \text{ Ac})(1.64 \text{ cfs/Ac}) = 7.3 \text{ cfs/}$

PROPOSED HYDROLOGY: FOUR BUILDINGS ARE PROPOSED AS SHOWN ALONG WITH ASSOCIATED PARKING & LANDSCAPING. TRACT 1 WILL CONTINUE TO DRAIN TO 65th ST SW, WHILE TRACTS 2-4 WILL DISCHARGE TO CHURCHILL RD SW.

LAND TREATMENT:

TRACT 1: 8% B, 12% C, & 80% D
(Area = 1.25 Ac) $Q = (1.25)(4.00) = 5.0 \text{ cfs/}$ (TO 65th ST SW)
TRACT 2-4: 10% B, 10% C, & 80% D
(Area = 3.19 Ac) $Q = (3.19)(3.99) = 12.7 \text{ cfs/}$ (To Churchill Rd SW)

KEYED UTILITY NOTES

1. PROPOSED 8" SANITARY SEWER MAIN.
2. PROPOSED 4" SAS SERVICE.
3. PROPOSED PUBLIC FIRE HYDRANT.
4. PROPOSED WATER SERVICE/METER.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- FLOW ARROW
- FINISH FLOOR ELEVATION
- SIDEWALK CULVERT
- TOP OF CURB ELEVATION
- TOP OF FLOWLINE
- TOP OF WALL ELEVATION
- BOTTOM OF
- SINGLE WATER METER & BOX
- GATE VALVE W/ VALVE BOX
- FIRE HYDRANT
- SAS MANHOLE
- WATER LINE W/ FITTING

SCALE:
1"=40'

40 30 20 10 0 40 80

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HUBBELL HEIGHTS
SHOPS

CONCEPTUAL GRADING AND
UTILITY PLAN

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