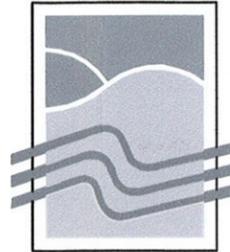


THE CITY OF KERRVILLE, TEXAS



ASPHALT PAVEMENT MAINTENANCE PROJECT 2009

MAYOR
TODD A. BOCK

CITY COUNCIL
T. SCOTT GROSS, MAYOR PRO TEM
BRUCE MOTHERAL
MACK HAMILTON
CHUCK COLEMAN

VICINITY MAP



Index Of Drawings

- 1 Cover Sheet
- 2 General Notes and Summary of Quantities
- 3 Methodist Encampment Rd. and Jackson Rd. Mill and Asphalt Overlay
- 4 Woodlawn Ave. , Lewis Ave, and Schreiner St. Mill and Asphalt Overlay
- 5 Jackson Rd, Galbraith Ave, Harper St, and W. Water St. Mill and Asphalt Overlay
- 6 Water St, Washington St, Jefferson St, and Earl Garrett St. Mill and Asphalt Overlay
- 7 Water St. Mill and Asphalt Overlay



CITY APPROVAL
These plans have been reviewed and approved by
[Signature] on *4/29/09*
Date
This approval will become void after one year of the indicated approval date. Exceptions to this approval are as follows:

By approving these plans, the City of Kerrville does not assume any liability for engineering design, nor does approval release the design engineer from liability for correction errors or omissions in the design both during and after construction.

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NOTES:

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE CITY OF KERRVILLE STANDARD SPECIFICATIONS FOR SUBDIVISION CONSTRUCTION.
2. THE AREA TO BE TREATED SHALL BE CLEANED OF ALL DIRT, DUST OR OTHER DELETERIOUS MATTER BY SWEEPING OR OTHER APPROVED METHODS.
3. MANHOLES, VALVE BOXES, GRATE INLETS, AND OTHER UTILITY ACCESS DEVICES SHALL BE PROTECTED FROM THE SURFACE TREATMENT BY PLACEMENT OF PLYWOOD DISCS OR OTHER APPROVED MATERIALS IF NECESSARY.
4. MANHOLES, VALVE BOXES, GRATE INLETS, AND OTHER UTILITY ACCESS DEVICES SHALL BE RAISED TO MATCH HEIGHT OF THE NEW SURFACE USING GRADE RINGS OR OTHER APPROVED MATERIALS IF NECESSARY.
5. BUTTON COVERS OR ANOTHER APPROVED METHOD SHALL BE USED TO PROTECT THE MISSING RAISED PAVEMENT MARKERS WHERE APPLICABLE.
6. THE FINISHED SURFACE SHALL BE CLEARED OF ANY SURPLUS AGGREGATE BY THE CONTRACTOR BY SWEEPING OR OTHER APPROVED METHODS AFTER ALL ROLLING IS COMPLETED.
7. FINAL ACCEPTANCE OF THE PROJECT WILL OCCUR AFTER ALL EXCESS ROCK IS REMOVED FROM PROJECT AREAS AND ALL STREETS HAVE BEEN SWEEPED WITH APPROVED SWEEPER.
8. CONTRACTOR TO PROVIDE TRAFFIC CONTROL.
9. NOTIFY ALL RESIDENTS AND BUSINESS OWNERS OF LANE CLOSURES, STREET CLOSURE, AND A PROPOSED SCHEDULE.
10. CONTACTOR SHALL MAKE EVERY EFFORT TO ALLOW PROPERTY OWNERS ACCESS TO HOMES AND BUSINESSES AT ALL TIMES.
11. CONTRACTOR TO NOTIFY KERRVILLE POLICE AND FIRE DEPARTMENTS PRIOR TO COMMENCING WORK BY CALLING DISPATCH AT 830-257-8181.
12. CONTRACTOR TO PHASE CONSTRUCTION TO ALLOW FOR 1/2 OF STREET TO REMAIN OPEN FOR TRAFFIC.
13. MILL EXISTING PAVEMENT FOR A DEPTH OF 3-6 INCHES BELOW EXISTING PAVEMENT GRADE (AS SHOWN ON DRAWING).
14. PLACE 3-6 INCHES OF TYPE 'C' H.M.A.C. (SURFACE COURSE) AND/OR TYPE 'B' H.M.A.C. (BASE COURSE) IN ACCORDANCE WITH KERRVILLE SPECIFICATION ITEM 250 (AS SHOWN ON DRAWING).
15. PLACEMENT OF TYPE 'C' H.M.A.C. (SURFACE COURSE) AND/OR TYPE 'B' H.M.A.C. (BASE COURSE) SHALL BE LAID IN MAXIMUM OF 3-INCH LIFTS. PLACE 4-INCHES OF TYPE 'C' H.M.A.C. (SURFACE COURSE) IN TWO(2) 2-INCH LIFTS.

ITEM	SHEET NUMBER					TOTALS
	3	4	5	6	7	
TOTAL SURFACE AREA - SQ YDS	8680	12100	18700	19130	16600	75210
TOTAL MILLINGS COMPACTED (CU YDS)	964	1344	1703	2835	922	7768
TYPE 'B' BASE COURSE HMAC COMPACTED (CU YDS)	0	0	0	1418	0	1418
TYPE 'B' BASE COURSE HMAC COMPACTED (TONS)*	0	0	0	937	0	937
TYPE 'C' SURFACE COURSE HMAC COMPACTED (CU YDS)	964	1344	1703	1417	922	6350
TYPE 'C' SURFACE COURSE HMAC COMPACTED (TONS)*	1910	2662	3372	1867	1826	11637
POTENTIAL WATER VALVE ADJUSTMENTS - EACH	1	12	19	16	22	70
POTENTIAL MANHOLE ADJUSTMENTS - EACH	3	7	7	18	12	47

* ASPHALT QUANTITIES CALCULATED USING 110 LBS/SY-INCH



GENERAL NOTES AND SUMMARY OF QUANTITIES

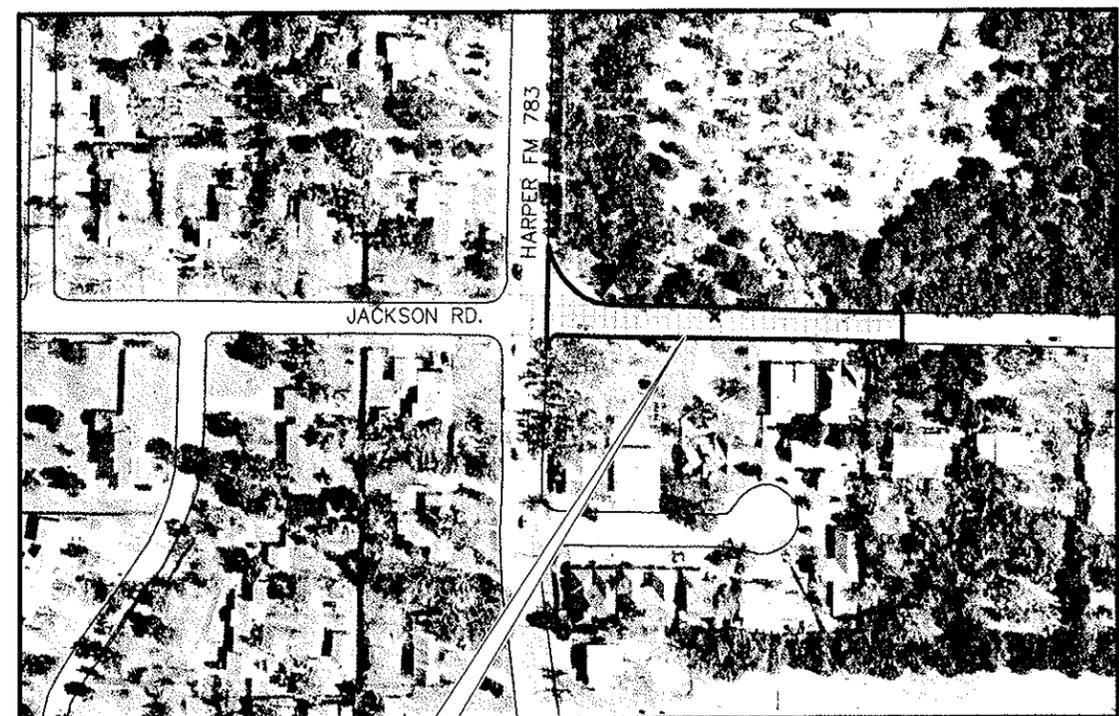




METHODIST ENCAMPMENT ROAD
 From SH 27 to Lois Street - Approximately 1800 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 6960 SY
ESTIMATED QUANTITIES:
 MILLINGS=773 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 773 CY -1531 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 0
 POTENTIAL MANHOLE ADJUSTMENTS = 3

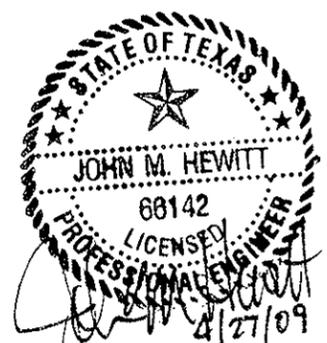


SCALE: 1"=200'



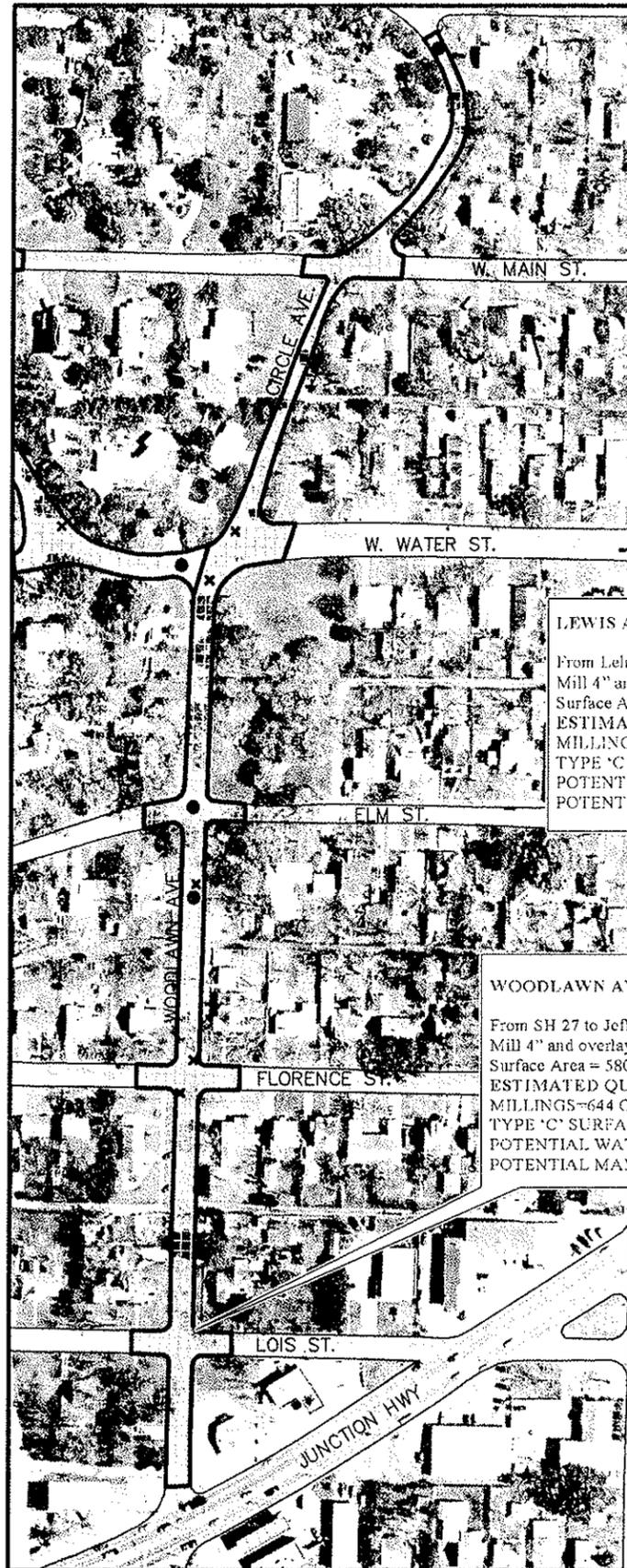
JACKSON ROAD
 From Harper Road to Woodcrest Drive - Approximately 420 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 1720 SY
ESTIMATED QUANTITIES:
 MILLINGS=191 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 191 CY -378 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 1
 POTENTIAL MANHOLE ADJUSTMENTS = 0

LEGEND
 + WATER VALVES
 ● SANITARY MH



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**METHODIST ENCAMPMENT RD.
 AND JACKSON RD.
 MILL AND ASPHALT OVERLAY**



LEWIS AVENUE

From Leland Street to Stephen Street-Approximately 650 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 1600 SY
ESTIMATED QUANTITIES:
 MILLINGS=178 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 178 CY -352 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 3
 POTENTIAL MANHOLE ADJUSTMENTS = 2

WOODLAWN AVENUE/CIRCLE AVENUE

From SH 27 to Jefferson Street-Approximately 1900 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 5800 SY
ESTIMATED QUANTITIES:
 MILLINGS=644 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 644 CY -1276 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 5
 POTENTIAL MANHOLE ADJUSTMENTS = 3

SCHREINER STREET

From Lewis Avenue to Wallace Street-Approximately 1070 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 4700 SY
ESTIMATED QUANTITIES:
 MILLINGS=522 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 522 CY -1034 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 4
 POTENTIAL MANHOLE ADJUSTMENTS = 2



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**WOODLAWN AVE., LEWIS AVE, AND
 SCHREINER ST.
 MILL AND ASPHALT OVERLAY**

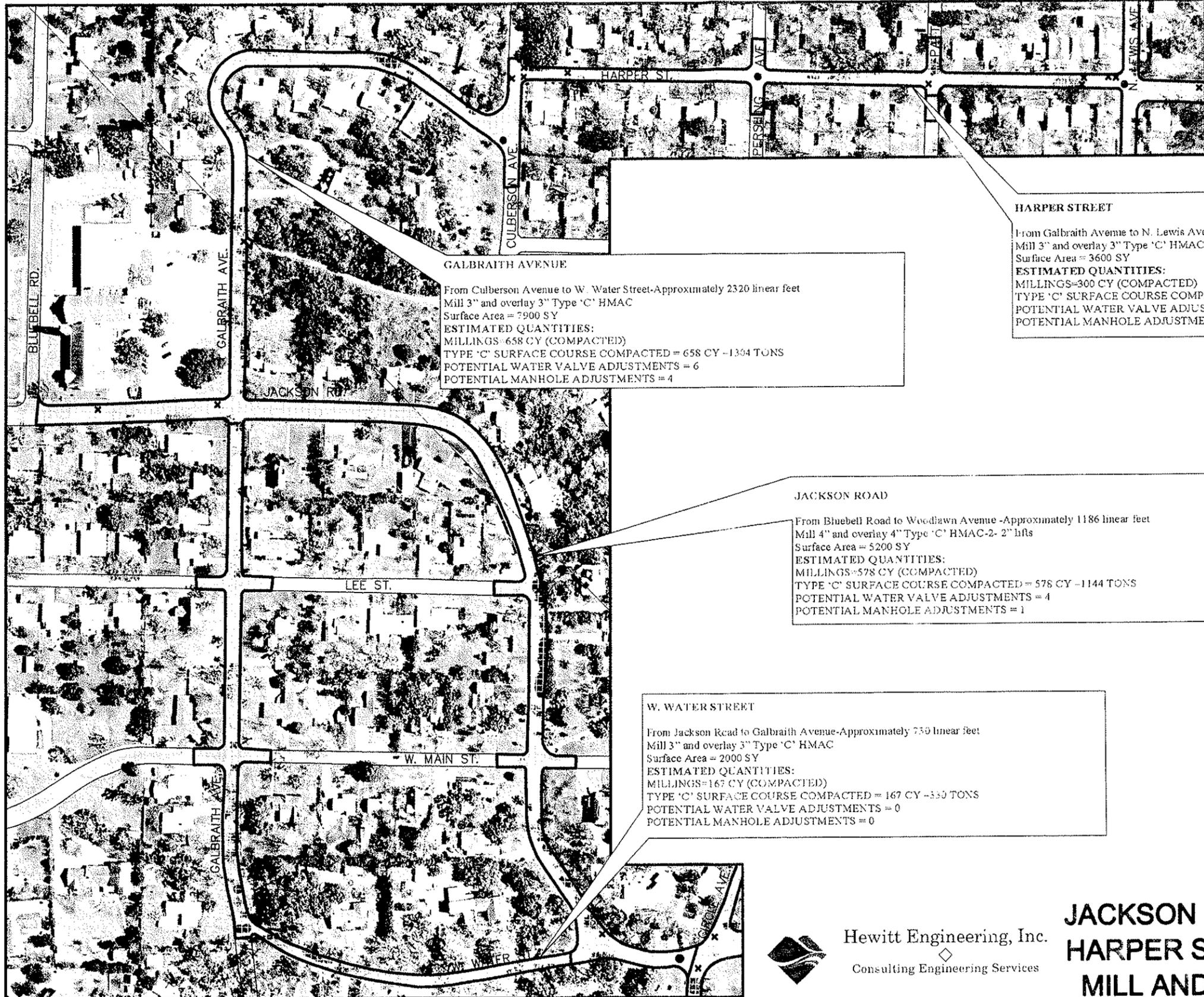


SCALE: 1"=200'

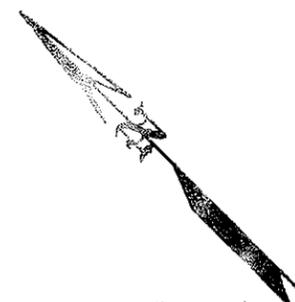


LEGEND

- + WATER VALVES
- SANITARY MH



SCALE: 1"=200'

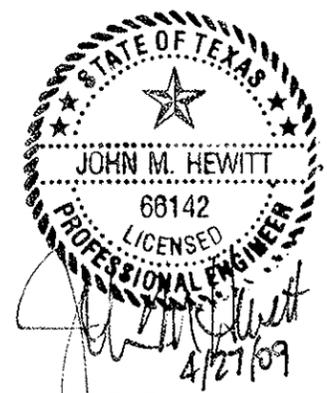


GALBRAITH AVENUE
 From Culberson Avenue to W. Water Street-Approximately 2320 linear feet
 Mill 3" and overlay 3" Type 'C' HMAC
 Surface Area = 7900 SY
ESTIMATED QUANTITIES:
 MILLINGS=658 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 658 CY -1364 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 6
 POTENTIAL MANHOLE ADJUSTMENTS = 4

HARPER STREET
 From Galbraith Avenue to N. Lewis Avenue-Approximately 1240 linear feet
 Mill 3" and overlay 3" Type 'C' HMAC
 Surface Area = 3600 SY
ESTIMATED QUANTITIES:
 MILLINGS=300 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 300 CY -594 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 9
 POTENTIAL MANHOLE ADJUSTMENTS = 2

JACKSON ROAD
 From Bluebell Road to Woodlawn Avenue -Approximately 1186 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 5200 SY
ESTIMATED QUANTITIES:
 MILLINGS=578 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 578 CY -1144 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 4
 POTENTIAL MANHOLE ADJUSTMENTS = 1

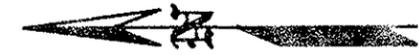
W. WATER STREET
 From Jackson Road to Galbraith Avenue-Approximately 750 linear feet
 Mill 3" and overlay 3" Type 'C' HMAC
 Surface Area = 2000 SY
ESTIMATED QUANTITIES:
 MILLINGS=167 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 167 CY -330 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 0
 POTENTIAL MANHOLE ADJUSTMENTS = 0



LEGEND
 + WATER VALVES
 ● SANITARY MH

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**JACKSON RD., GALBRAITH AVE.,
 HARPER ST. AND W. WATER ST.
 MILL AND ASPHALT OVERLAY**



SCALE: 1"=200'

WATER STREET
Water Street from A Street to SH 27-Approximately 3680 linear
Mill 2" and overlay 2" Type 'C' HMA
Surface Area = 16600 SY
ESTIMATED QUANTITIES:
MILLINGS=922 CY (COMPACTED)
TYPE 'C' SURFACE COURSE COMPACTED -- 922 CY -1826 TONS
POTENTIAL WATER VALVE ADJUSTMENTS = 22
POTENTIAL MANHOLE ADJUSTMENTS = 12



**WATER ST.
MILL AND ASPHALT OVERLAY**

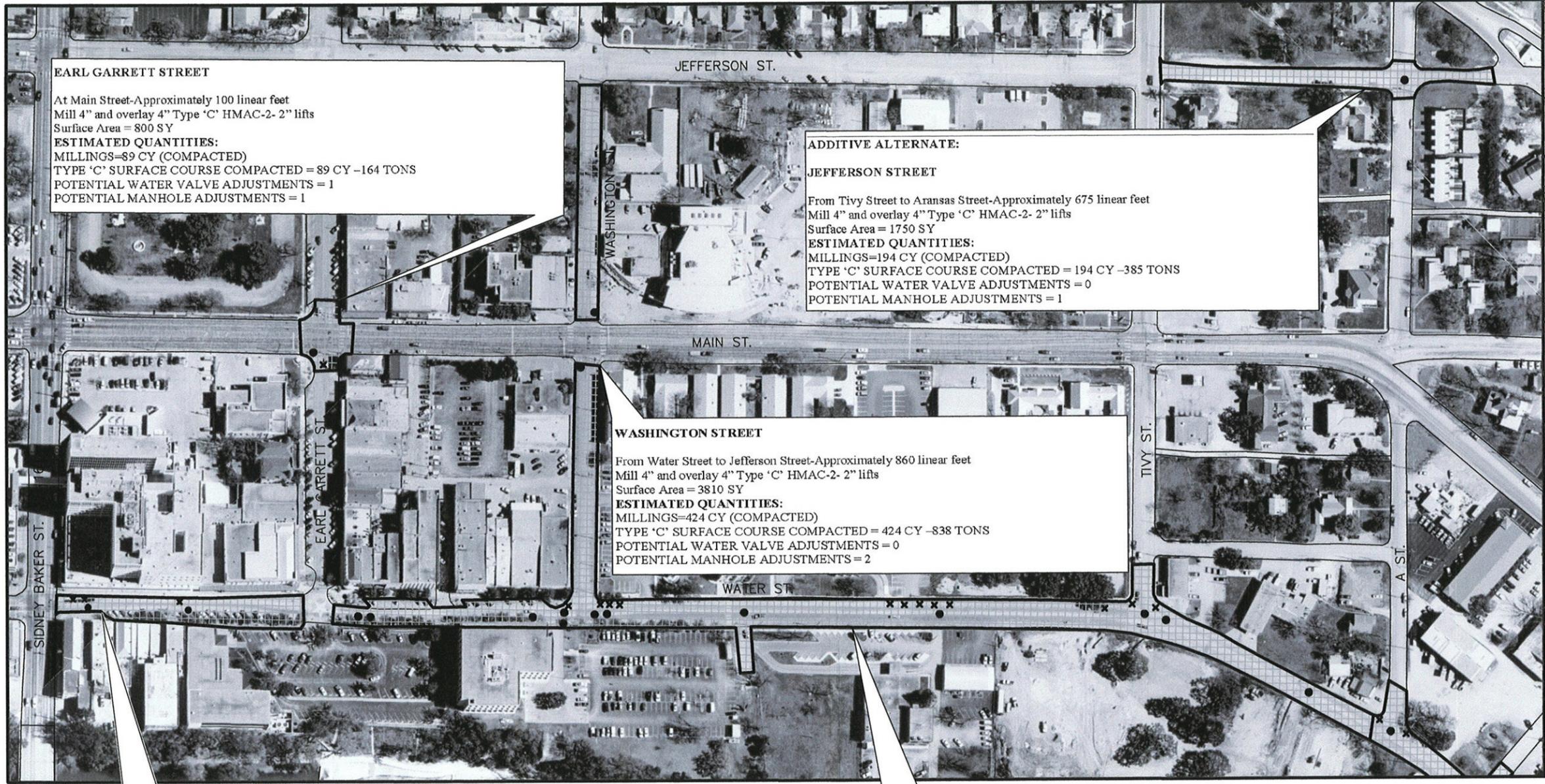
LEGEND

+ WATER VALVES

● SANITARY MH



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EARL GARRETT STREET
 At Main Street-Approximately 100 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 800 SY
ESTIMATED QUANTITIES:
 MILLINGS=89 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 89 CY -164 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 1
 POTENTIAL MANHOLE ADJUSTMENTS = 1

ADDITIVE ALTERNATE:
JEFFERSON STREET
 From Tivy Street to Aransas Street-Approximately 675 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 1750 SY
ESTIMATED QUANTITIES:
 MILLINGS=194 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 194 CY -385 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 0
 POTENTIAL MANHOLE ADJUSTMENTS = 1

WASHINGTON STREET
 From Water Street to Jefferson Street-Approximately 860 linear feet
 Mill 4" and overlay 4" Type 'C' HMAC-2- 2" lifts
 Surface Area = 3810 SY
ESTIMATED QUANTITIES:
 MILLINGS=424 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 424 CY -838 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 0
 POTENTIAL MANHOLE ADJUSTMENTS = 2

WATER STREET
 From Sidney Baker Street (SH 16) to Earl Garrett Street-Approximately 430 linear feet
 Mill 6" and overlay 2" Type 'C' HMAC and 4" Type 'B' HMAC
 Surface Area = 1670 SY
ESTIMATED QUANTITIES:
 MILLINGS=278 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 93 CY -61 TONS
 TYPE 'B' BASE COURSE COMPACTED = 185 CY -123 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 3
 POTENTIAL MANHOLE ADJUSTMENTS = 2

WATER STREET
 From Earl Garrett Street to A Street-Approximately 1960 linear feet
 Mill 6" and overlay 2" Type 'C' HMAC and 4" Type 'B' HMAC
 Surface Area = 11100 SY
ESTIMATED QUANTITIES:
 MILLINGS=1850 CY (COMPACTED)
 TYPE 'C' SURFACE COURSE COMPACTED = 617 CY -407 TONS
 TYPE 'B' BASE COURSE COMPACTED = 1233 CY -814 TONS
 POTENTIAL WATER VALVE ADJUSTMENTS = 12
 POTENTIAL MANHOLE ADJUSTMENTS = 12

LEGEND

- + WATER VALVES
- SANITARY MH



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**WATER ST., WASHINGTON ST.,
 JEFFERSON ST., AND EARL GARRETT ST.
 MILL AND ASPHALT OVERLAY**