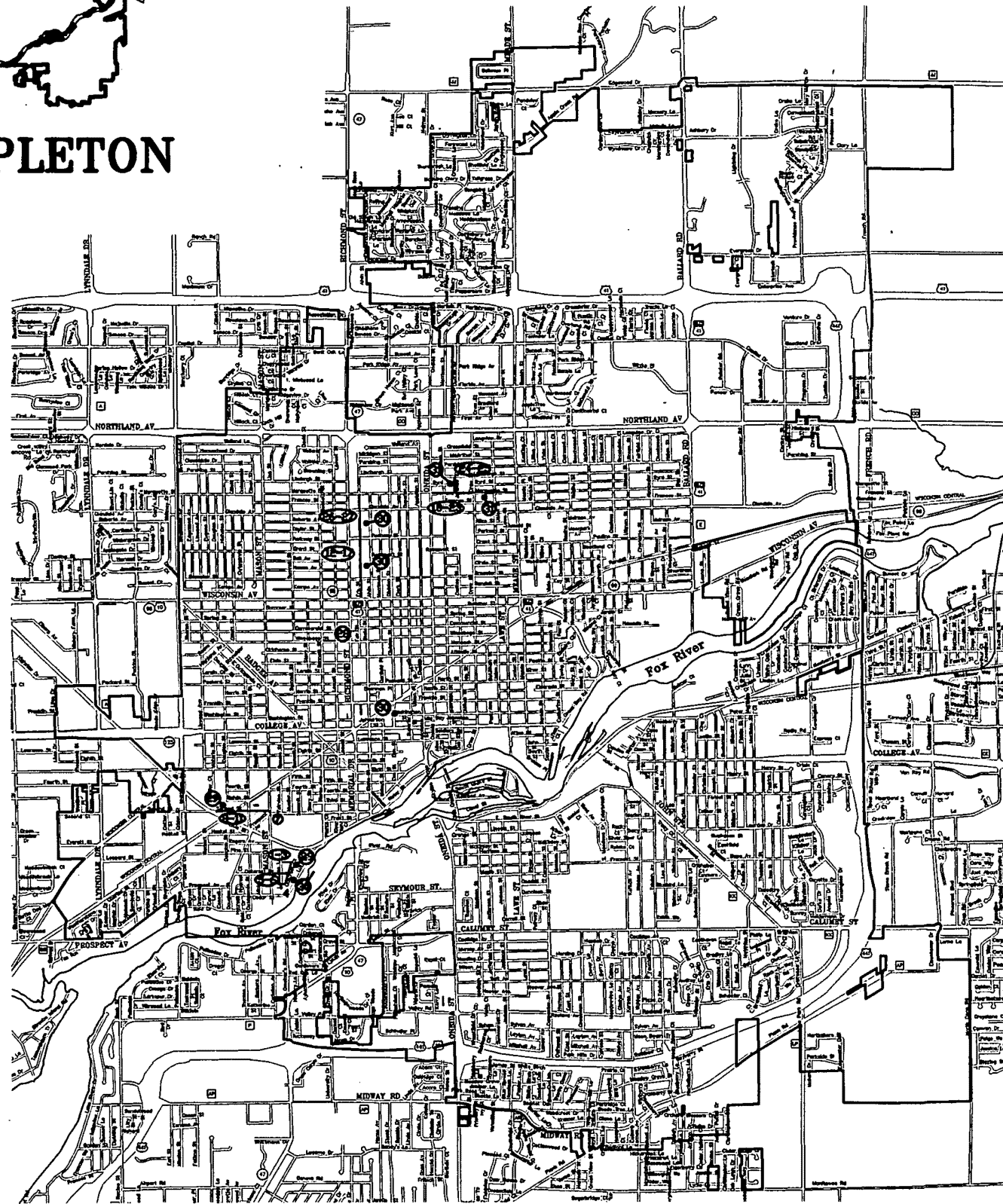
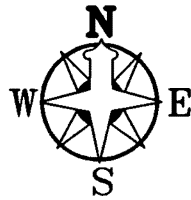


CITY OF
APPLETON



2002
SEWER & WATER
UNIT NO. W-02



- 1-3. DAKCREST COURT — LEHMANN LANE TO LEHMANN LANE
- 4. LEHMANN LANE — DAKCREST CT. TO CUL-DE-SAC
- 5-6. DAKCREST DRIVE — MASON ST. TO DAKCREST CT.
- 7. MASON ST. — PROSPECT AVE. TO SECOND ST.
- 8-11. SECOND STREET — MASON ST. TO MILLER CT.
- 12-17. ERB STREET — WISCONSIN AVE. TO MARQUETTE ST.
- 18-23. MARQUETTE STREET — ONEIDA ST. TO MEADE ST.
- 24-25. JARCHOW STREET — MARQUETTE ST. TO LINDBERGH ST

SANITARY RECONSTRUCTION

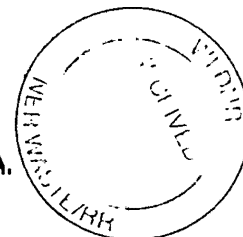
- 26-27. ERB STREET — PARKWAY BLVD. TO 560' NORTH OF PARKWAY BLVD.

STORM SEWER - NEW

- 28. WINNEBAGO STREET — BENNETT ST. TO LOCUST ST.

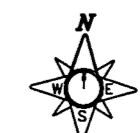
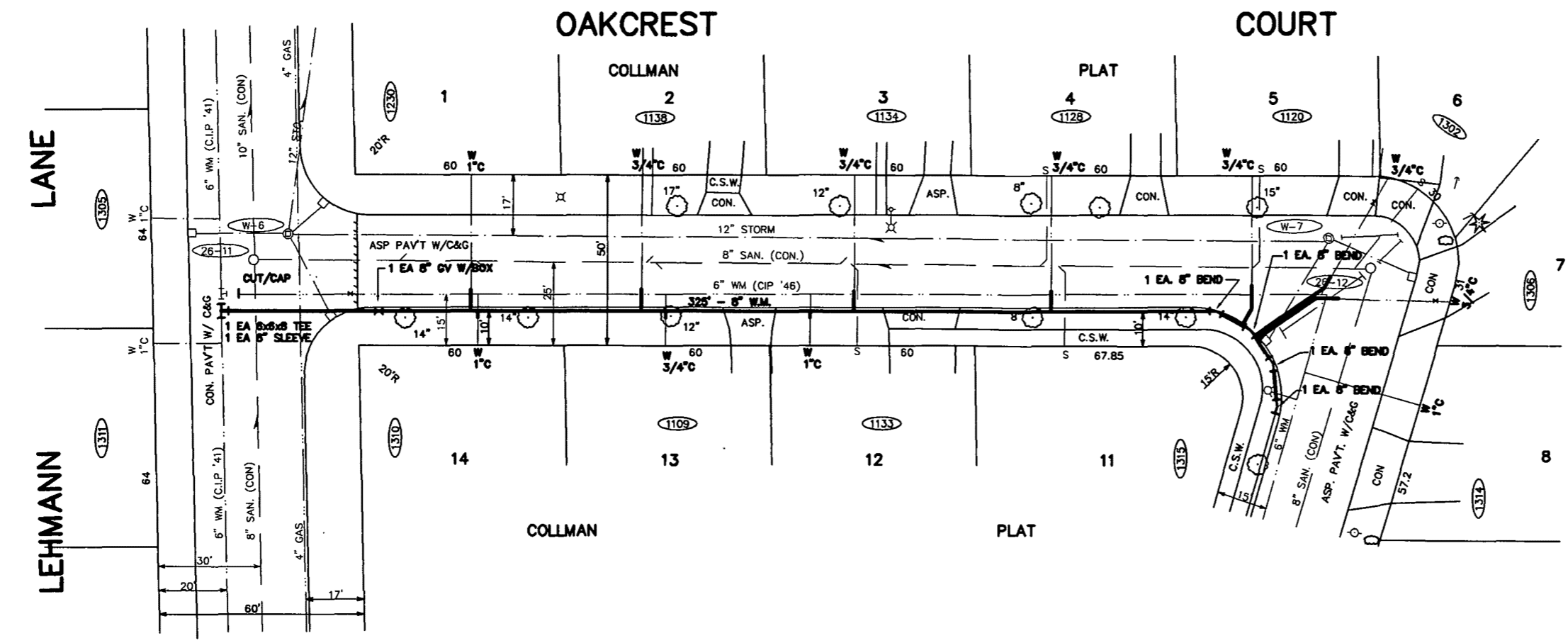
MANHOLE REBUILDS

- 29. DAKCREST CT., LEHMANN LA., TO LEHMANN LA.
- 29. SECOND ST., DOUGLAS ST. TO OUTAGAMIE ST.
- 30. ERB ST., WISCONSIN AVE. TO GLENDALE AVE.
- 30. LEHMANN LA. AT INTERSECTIONS OF DAKCREST DR.
- 30. DIVISION ST. AT INTERSECTION OF WASHINGTON ST.
- 31. MARQUETTE ST., ONEIDA ST. TO MEADE ST.
- 31. JARCHOW ST. AT INTERSECTION OF BYRD ST.
- 32. BALLARD RD. — WISCONSIN AVE. TO 1000' SOUTH



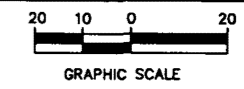
EXIST. PROP.		EXIST. PROP.	
SANITARY SEWER MANHOLES	○	HEDGE	—
FENCE CHAIN LINK	⊙	LIGHT POLE	⊙
FENCE WOOD	⊙	MAIL BOX	⊙
GUARDRAIL	⊙	METAL POST	⊙
QUIVERT	⊙	OVERHEAD SIGN BRIDGE	⊙
ELECTRIC MANHOLE	⊙	OVERHEAD SIGN POST	⊙
GAS VALVE	⊙	ORNAMENTAL STREET LIGHT	⊙
INLET	⊙	OVERHEAD TRAFFIC SIGNAL	⊙
LIFT STATION	⊙	PARKING METER	⊙
STORM MANHOLE	⊙	POWER POLE	⊙
TELEPHONE MANHOLE	⊙	PULL BOX	⊙
WATER MANHOLE	⊙	SIGN	⊙
WATER VALVE	⊙	TELEPHONE PED.	⊙
RIP RAP	⊙	TELEPHONE POLE	⊙
EROSION CONTROL	⊙	TRAFFIC SIGNAL	⊙
BUILDING	⊙	TRAFFIC SIGNAL CONTROLLER	⊙
BUSH	⊙	TREE (DECIDUOUS)	⊙
CABLE TV PED.	⊙	TREE (EVERGREEN)	⊙
ELECTRIC PED.	⊙	GRADES IN PLAN	⊙
ELECTRIC TRANSFORMER	⊙	STUMP	⊙
HYDRANT	⊙	TREE TO BE REMOVED	⊙
FLAG POLE	⊙	VERIFY ELEVATION	⊙
GATE	⊙		
GUY WIRE	⊙		

STA 1+00.00 E/L LEHMANN STREET
 BENCHMARKS:
 HYDRANT N/E COR. OAKCREST CT. & LEHMANN LA (SOUTH) 800.27
 HYDRANT S/W COR. OAKCREST CT. & OAKCREST CT. (NORTH) 800.73
 HYDRANT OAKCREST DR. & OAKCREST CT. 801.46



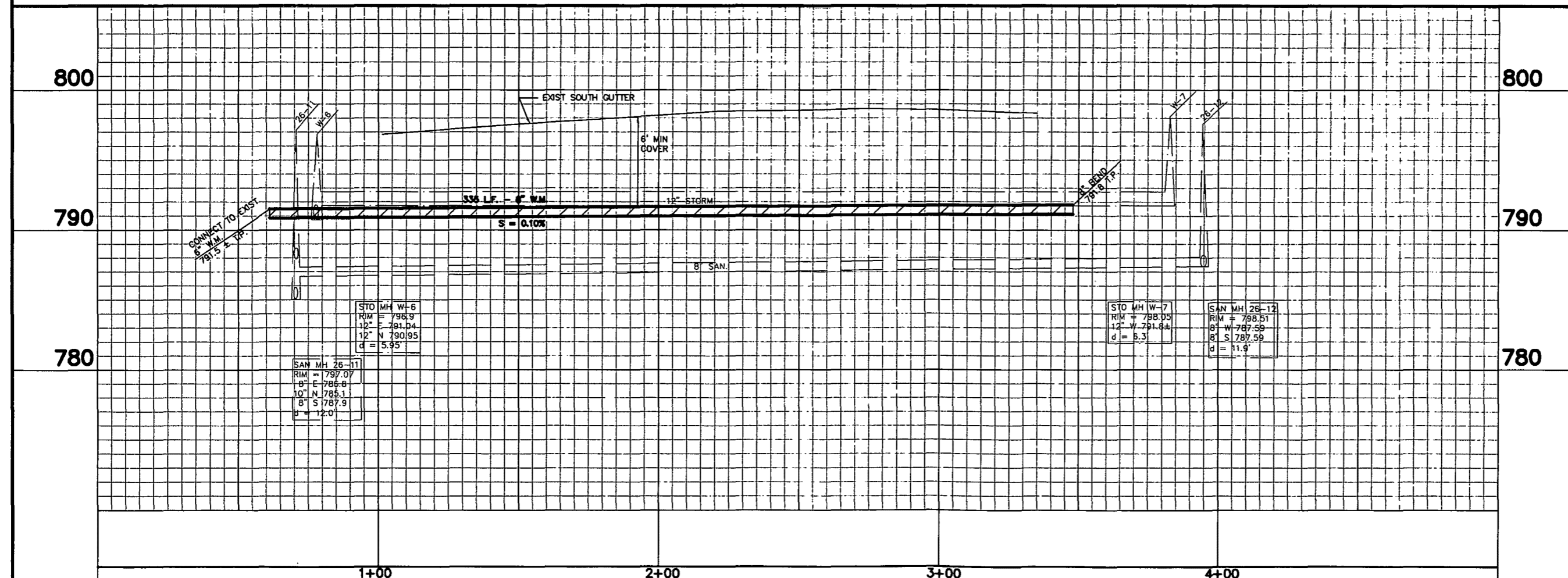
- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES
- 325 L.F. - F&I 8" WATER MAIN
 - 1 EA. - F&I 8" GATE VALVE W/BOX
 - 127 L.F. - F&I 1" SERVICE
 - 4 EA. - F&I 8" DIA. 22 1/2" BEND
 - 11 EA. - SERVICE CONNECTION
- REQ'D FITTINGS & MAT'L
- 1 EA. - 6x6x8 TEE
 - 1 EA. - 6" SLEEVE
 - 3 EA. - 1" TYPE 'C' COUPLING
 - 8 EA. - 1"x3/4" TYPE 'C' COUPLING
 - 11 EA. - 1" CORPORATION STOP

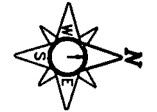


CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
OAKCREST COURT
 (N/LEG)
 LEHMANN LA. TO E/LEG OAKCREST CT.

DATE: AAE CKD:
 DATE: 11/16/01 APP'D:

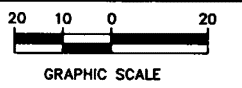
DRG. NO. 1/4 SEC. P54 PAGE NO.
W-1127 1

STA 14+00.00 E/L LEHMANN LANE
 BENCHMARKS:
 HYDRANT N/E COR. OAKCREST CT. & LEHMANN LA (SOUTH) 800.27
 HYDRANT S/W COR. OAKCREST CT. & OAKCREST CT. (NORTH) 800.73
 HYDRANT OAKCREST DR. & OAKCREST CT. 801.48



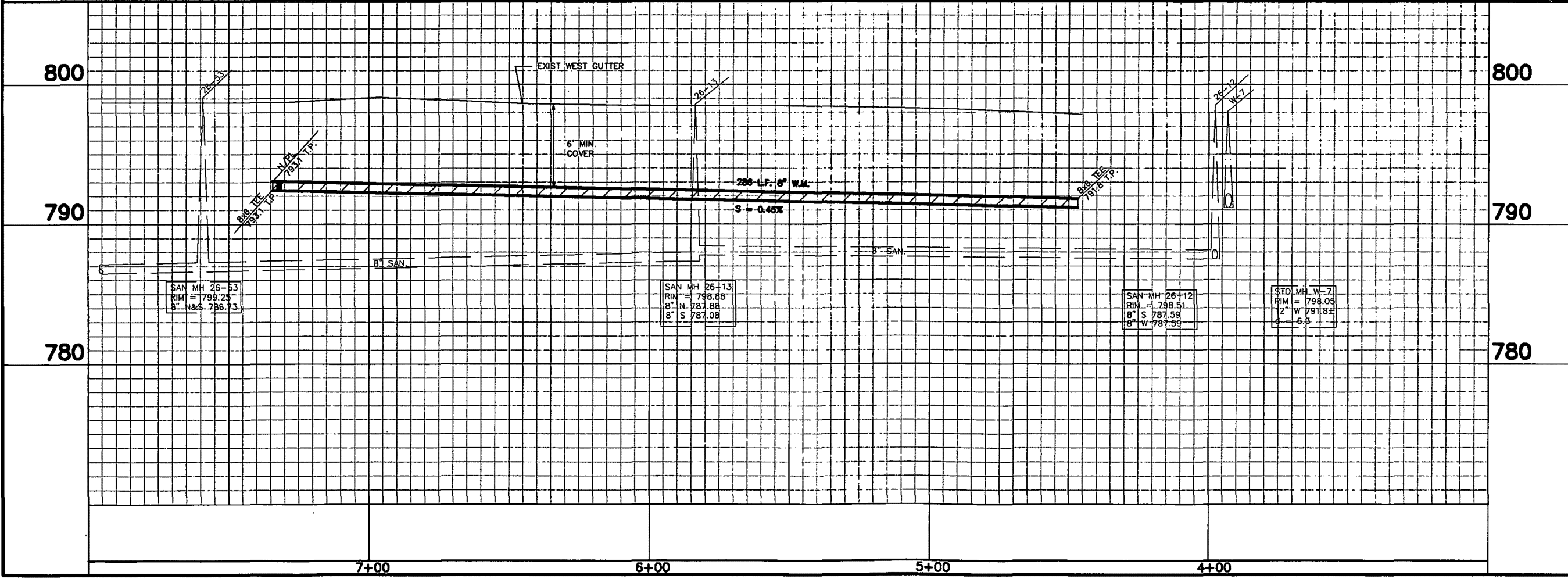
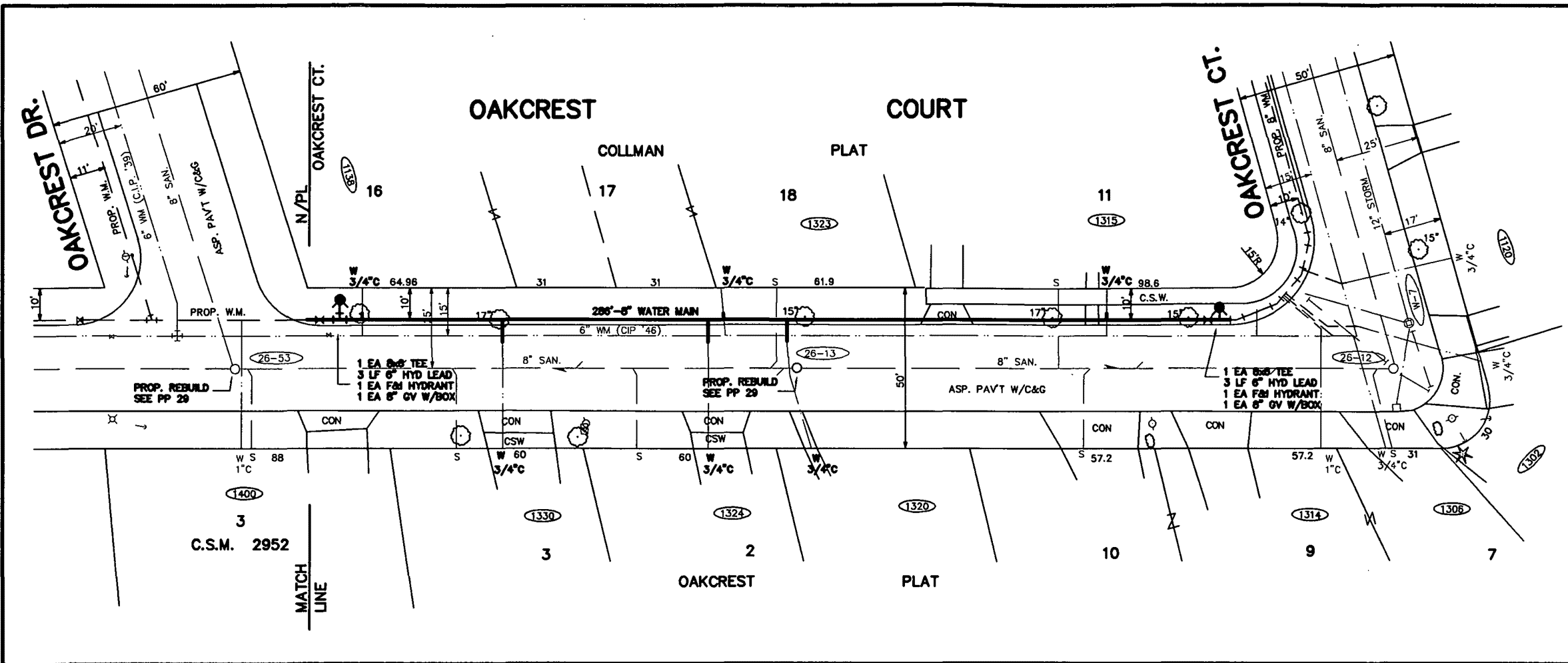
- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES
- 286 L.F. - 8" WATER MAIN
 - 6 L.F. - 8" HYDRANT LEAD
 - 2 EA. - F&I HYDRANT
 - 2 EA. - F&I 8" G.V. W/BOX
 - 3 EA. - 8" DIA 22 1/2" BEND
 - 115 L.F. - 1" SERVICE
 - 10 EA. - SERVICE CONNECTION
- REQ'D. FITTINGS & MAT'L
- 2 EA. - BX&B TEE
 - 9 EA. - 1"x3/4" 'C' COUPLING
 - 1 EA. - 1" TYPE 'C' COUPLING
 - 10 EA. - 1" CORPORATION STOP



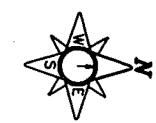
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
OAKCREST COURT
 (E/LEG)
 OAKCREST CT (N/LEG) TO OAKCREST DR

DATE: AAE CKD:
 DATE: 11/15/01 APP'D:

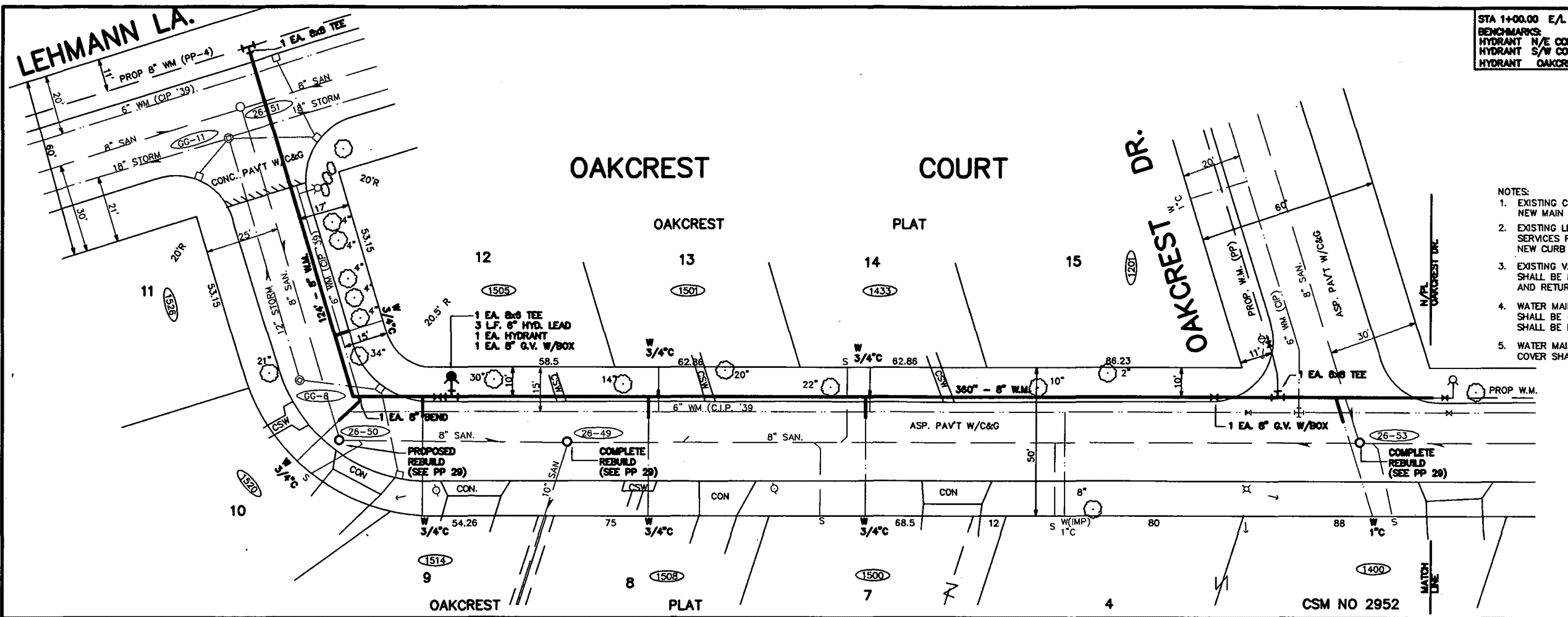
DRG. NO. 1/4 SEC. P54 PAGE NO.
W-1128 **2**

LEHMANN LA.

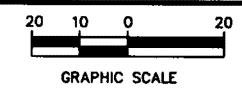
STA 1+00.00 E/L LEHMANN LA
 BENCHMARKS
 HYDRANT N/E COR. OAKCREST CT. & LEHMANN LA (SOUTH) 800.27
 HYDRANT S/W COR. OAKCREST CT. & OAKCREST CT. (NORTH) 800.73
 HYDRANT OAKCREST DR. & OAKCREST CT. 801.46



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.



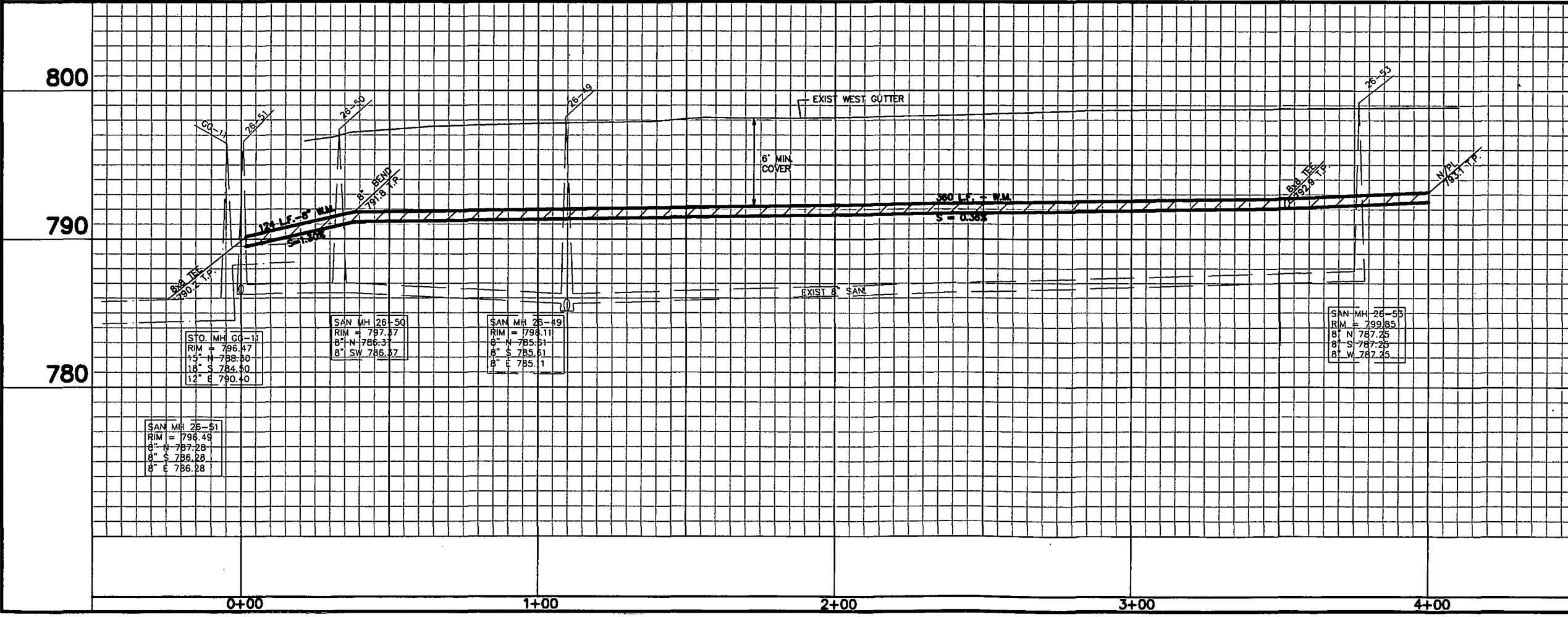
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES**
- 484 L.F. - F&I 8" WATER MAIN
 - 3 L.F. - F&I 6" HYDRANT LEAD
 - 1 EA. - F&I HYDRANT
 - 1 EA. - F&I 8" GATE VALVE W/BOX
 - 1 EA. - F&I 8" DIA. 45' BEND
 - 50 L.F. - F&I 1" SERVICE
 - 8 EA. - SERVICE CONNECTION

- REQ'D FITTING'S & MAT'L**
- 1 EA. - 8x8 TEE
 - 1 EA. - 8x6 TEE
 - 2 EA. - 1" TYPE 'C' COUPLING
 - 7 EA. - 1"x3/4" TYPE 'C' COUPLING
 - 9 EA. - 1" CORPORATION STOP

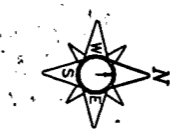
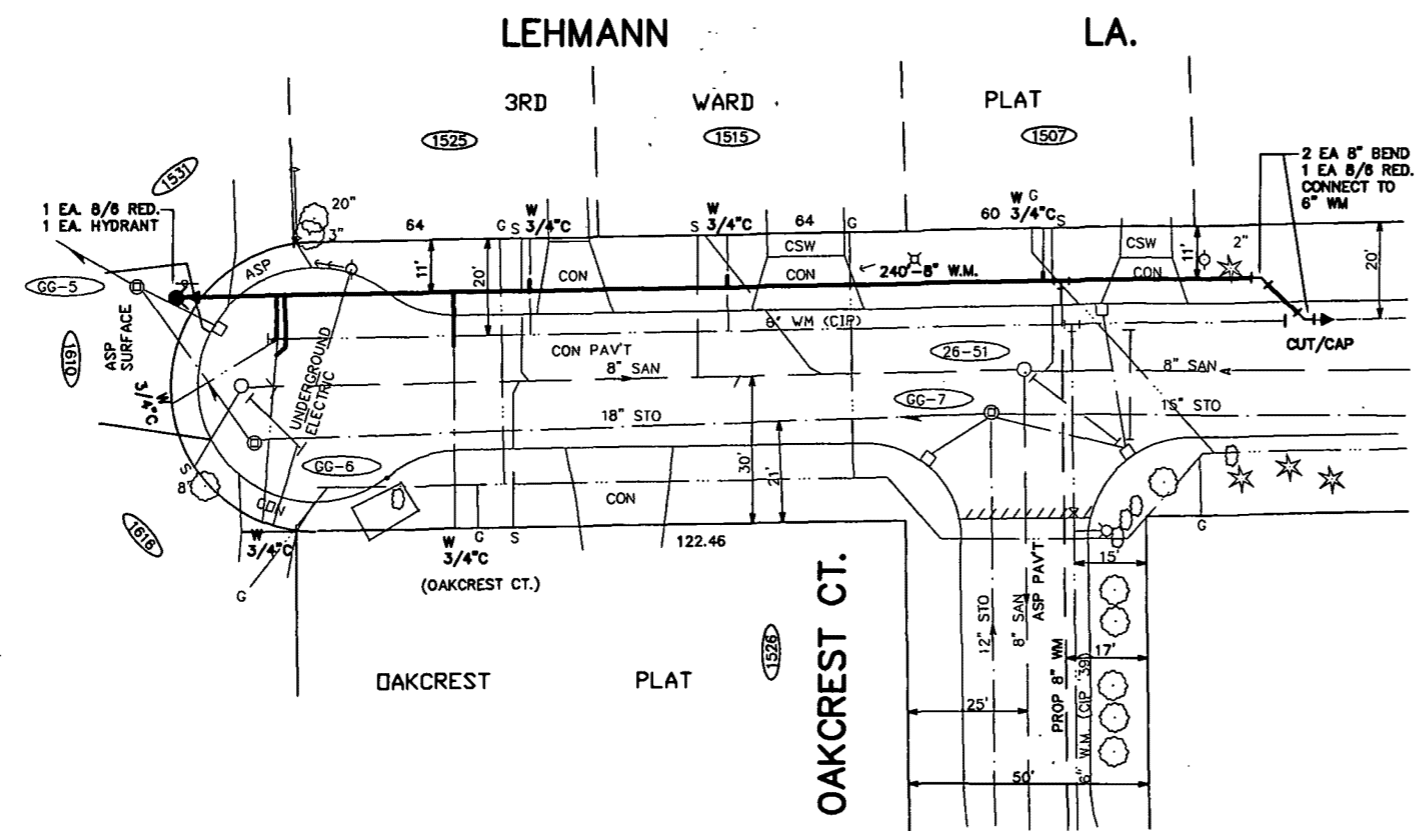


CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
OAKCREST COURT
 (E/LEG & S/LEG)
 OAKCREST DR TO LEHMANN LA

DATE: AAE CKD:
 DATE: 11/15/01 APP'D:

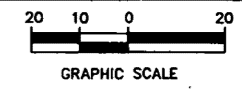
DRG. NO. 1/4 SEC. P54 PAGE NO.
W-1129 **3**

STA 1+00.00 S/END LEHMANN LA.
 BENCHMARKS:
 HYDRANT N/E COR. OAKCREST CT. & LEHMANN LA (SOUTH) 800.27
 HYDRANT S/W COR. OAKCREST CT. & OAKCREST CT. (NORTH) 800.73
 HYDRANT OAKCREST DR. & OAKCREST CT. 801.46



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



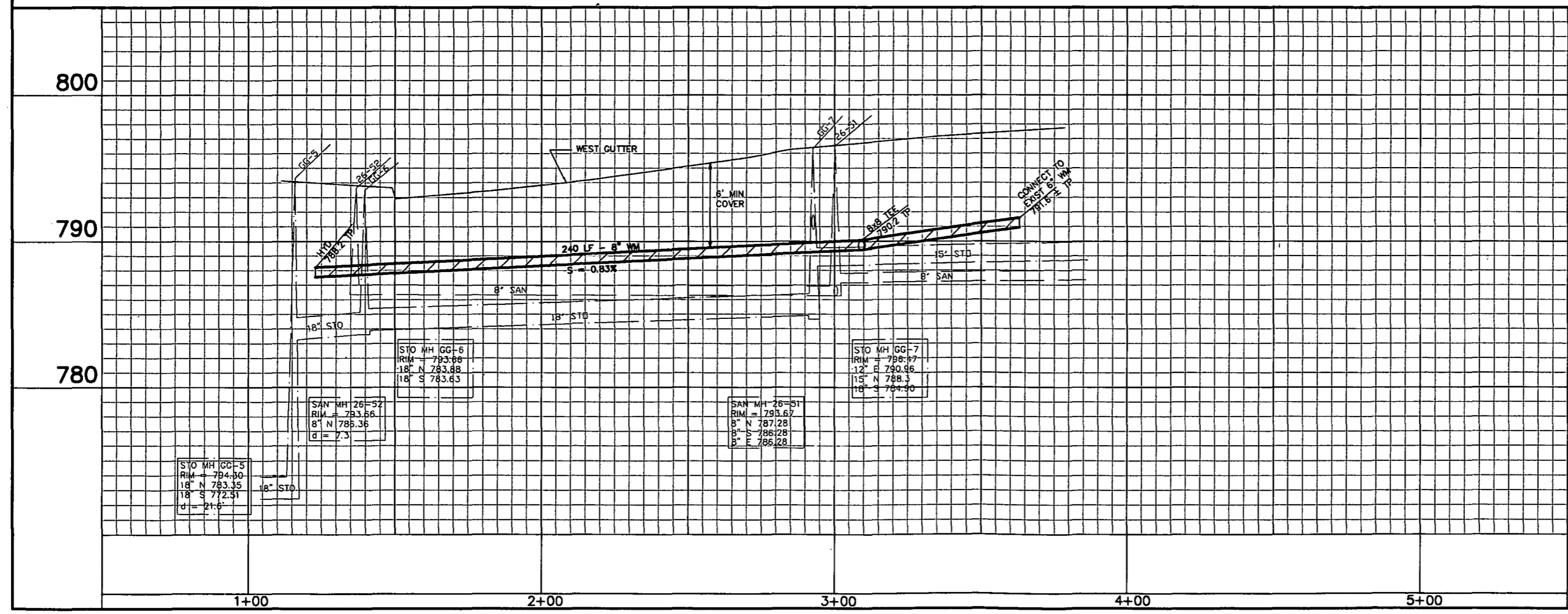
ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES

- 240 LF - F&I 8" WATER MAIN
- 2 EA - F&I 8" DIA., 45' BEND
- 1 EA - F&I HYDRANT
- 50 LF - F&I 1" SERVICE
- 6 EA - F&I SERVICE CONNECTION

REQ'D FITTINGS & MAT'L

- 2 EA - 8/8 REDUCER
- 6 EA - 1"x3/4" TYPE 'C' COUPLING
- 6 EA - 1" CORPORATION STOP

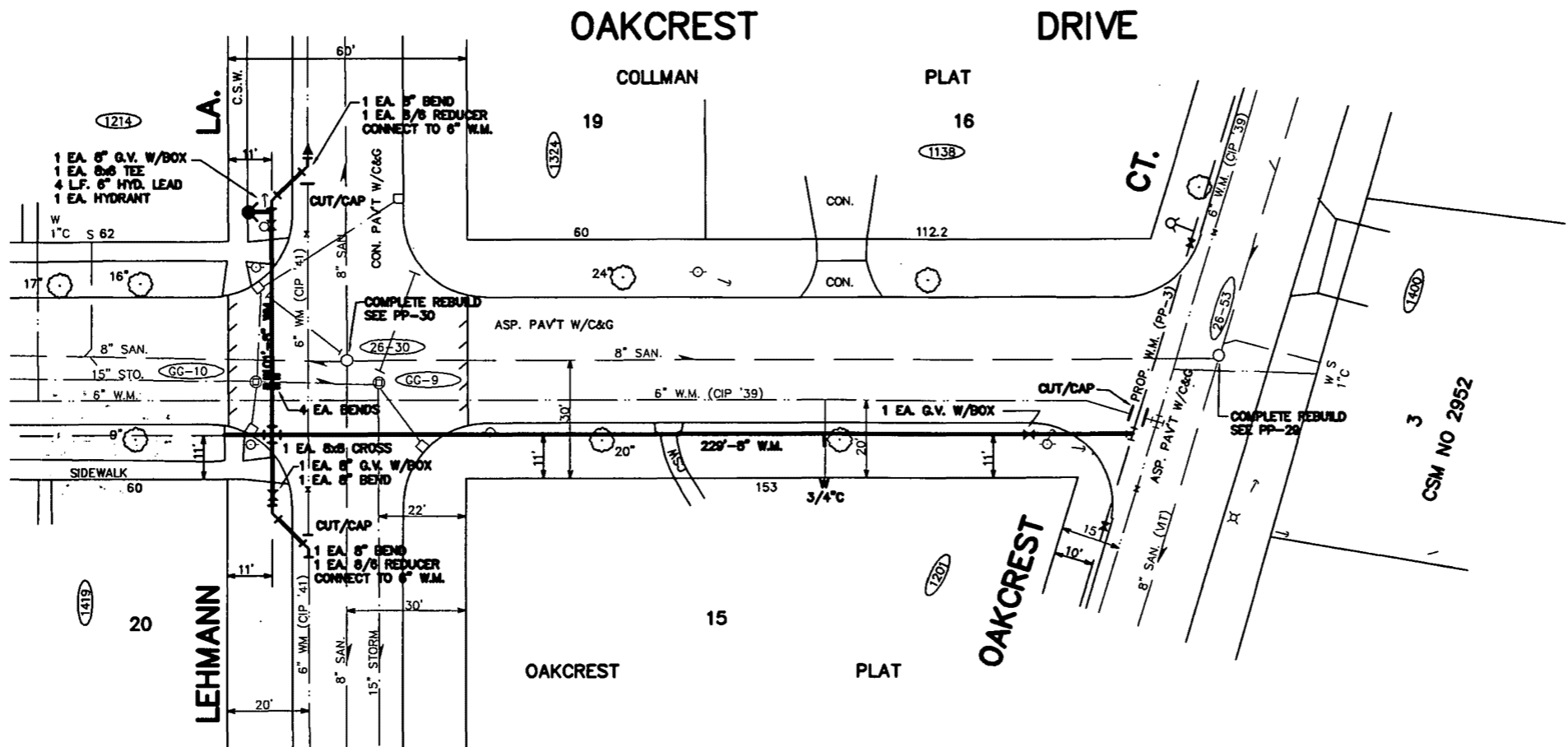


CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

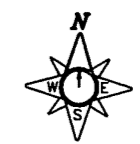
WATER MAIN
 IN
LEHMANN LANE
 S/LEG OAKCREST CT. TO SOUTH END

DWN: AAE CKD:
 DATE: 00/00/00 APP'D:

DRG. NO. 1/4 SEC. P 54 PAGE NO.
W-1130 **4**

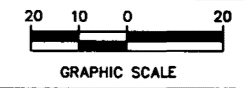


BENCHMARKS:
 HYDRANT N/E COR. OAKCREST CT. & LEHMANN LA (SOUTH) 600.27
 HYDRANT S/W COR. OAKCREST CT. & OAKCREST CT. (NORTH) 600.73
 HYDRANT OAKCREST DR. & OAKCREST CT. 601.46



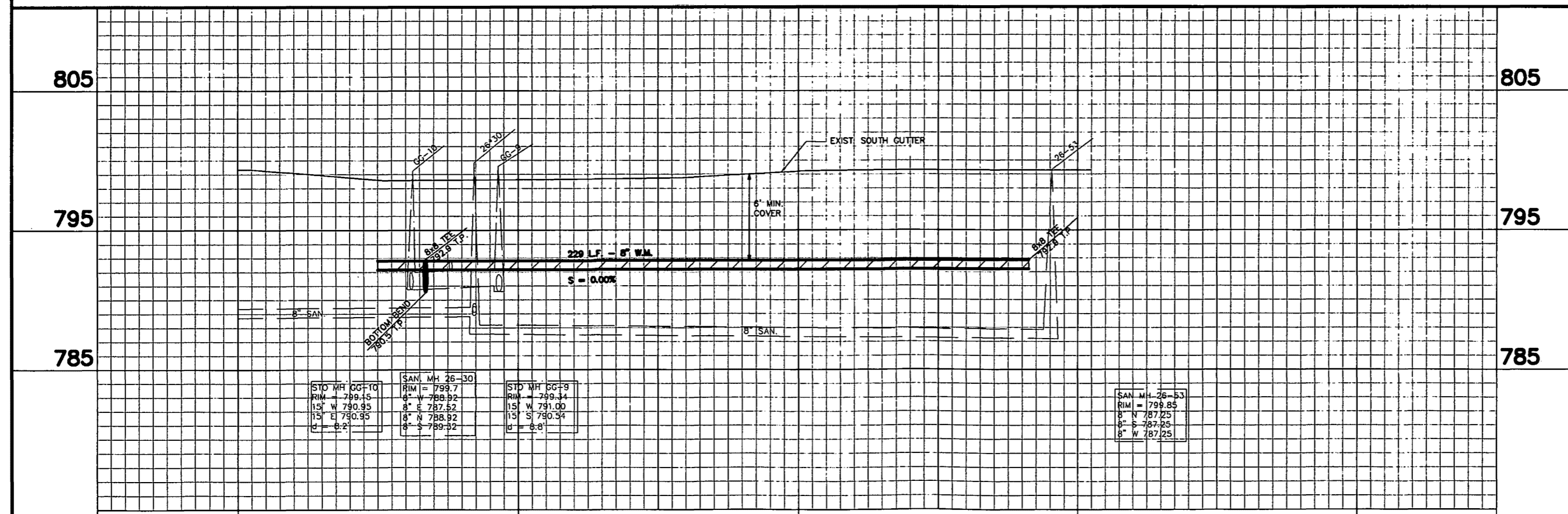
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 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
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 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES**
- 330 LF - F&I 8" WATER MAIN
 - 4 LF - F&I 6" HYDRANT LEAD
 - 1 EA - F&I HYDRANT
 - 3 EA - F&I 8" GATE VALVE W/BOX
 - 8 EA - F&I 8" DIA. 45° BEND
 - 3 LF - F&I 1" SERVICE
 - 1 EA - SERVICE CONNECTION
- REQ'D FITTINGS & MAT'L**
- 1 EA - 8x8 CROSS
 - 1 EA - 8x8 TEE
 - 1 EA - 8x6 TEE
 - 2 EA - 8/8 REDUCER
 - 1 EA - 1"x3/4" 'C' COUPLING
 - 1 EA - 1" CORPORATION STOP



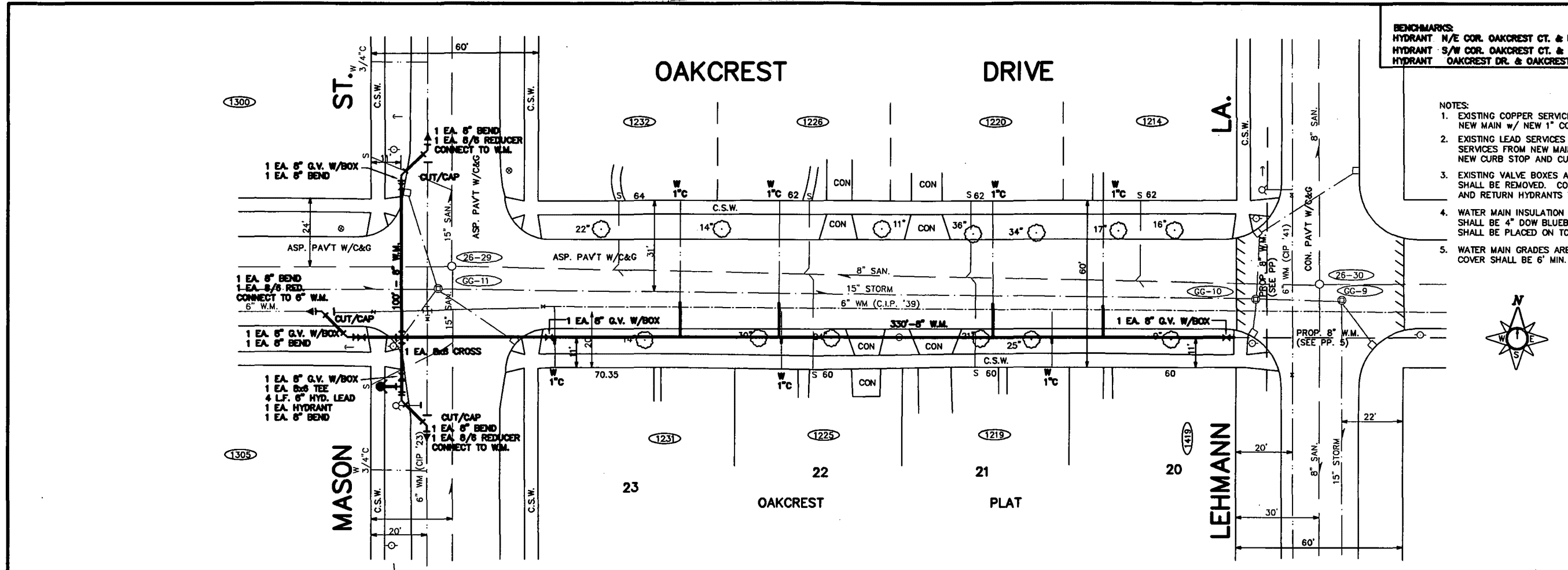
STO. MH GG-10	SAN. MH 26-30	STO. MH GG-9
RIM = 799.45	RIM = 799.7	RIM = 799.44
15' W 790.95	8' W 788.92	15' W 791.00
15' E 790.95	8' E 787.52	15' S 790.34
D = 6.2	8' N 788.92	D = 6.8
	8' S 789.52	

SAN. MH 26-53
RIM = 799.85
8' N 787.25
8' S 787.25
8' W 787.25

CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
OAKCREST DRIVE
 LEHMANN LA TO OAKCREST CT (E/LEG)

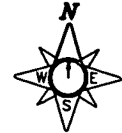
DATE: AAE CKD:
 DATE: 11/20/01 APP'D:

DRG. NO. 1/4 SEC. P54 PAGE NO.
W-1131 **5**

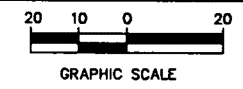


BENCHMARKS:
 HYDRANT N/E COR. OAKCREST CT. & LEMANN LA (SOUTH) 800.27
 HYDRANT S/W COR. OAKCREST CT. & OAKCREST CT. (NORTH) 800.73
 HYDRANT OAKCREST DR. & OAKCREST CT. 801.46

- NOTES:**
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.). COVER SHALL BE 6" MIN. 8.5" COVER SHALL BE TYPICAL.

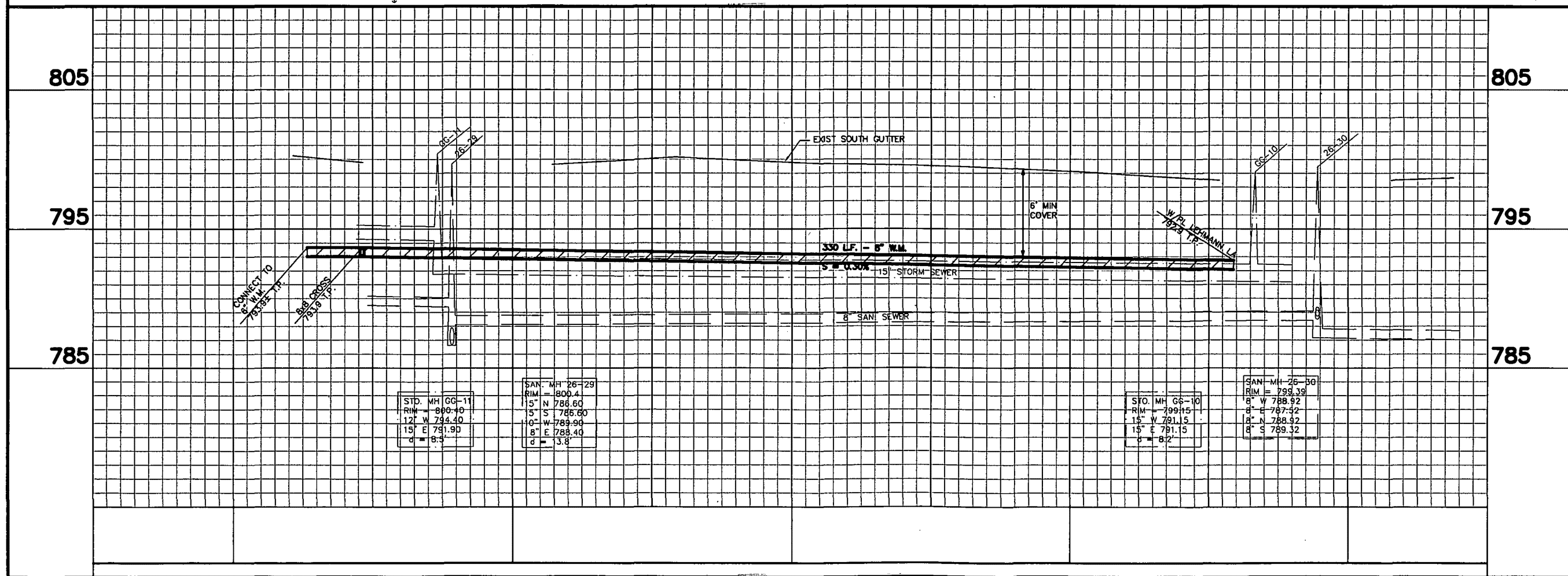


BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES**
- 430 LF. - F&I 8" WATER MAIN
 - 4 LF. - F&I 6" HYDRANT LEAD
 - 1 EA. - F&I HYDRANT
 - 5 EA. - F&I 8" GATE VALVE W/BOX
 - 6 EA. - F&I 8" DIA. 45° BEND
 - 57 LF. - F&I 1" SERVICE
 - 7 EA. - SERVICE CONNECTION
- REQ'D FITTINGS & MAT'L**
- 1 EA. - 8x8 CROSS
 - 1 EA. - 8x6 TEE
 - 3 EA. - 8/8 REDUCER
 - 7 EA. - 1" TYPE 'C' COUPLING
 - 7 EA. - 1" CORPORATION STOP



STD. MH GG-11
RIM = 800.40
12" W 794.40
15" E 791.90
d = 8.4

SAN. MH 26-29
RIM = 800.4
15" N 788.60
5" S 786.60
10" W 789.90
8" E 788.40
d = 13.8

SFO. MH GG-10
RIM = 799.15
15" W 791.5
15" E 791.15
d = 8.2

SAN. MH 26-30
RIM = 799.39
8" W 788.92
8" E 787.52
8" N 788.92
8" S 789.32

CITY OF APPLETON, WS.
 ENGINEERING DIVISION
WATER MAIN
 IN
OAKCREST DRIVE
 LEHMANN LA. TO MASON ST.

DATE: AAE CKD:
 DATE: 11/20/01 APP'D:

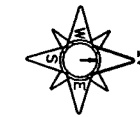
DRG. NO. 1/4 SEC. P54 PAGE NO.
W-1132 **6**

MASON

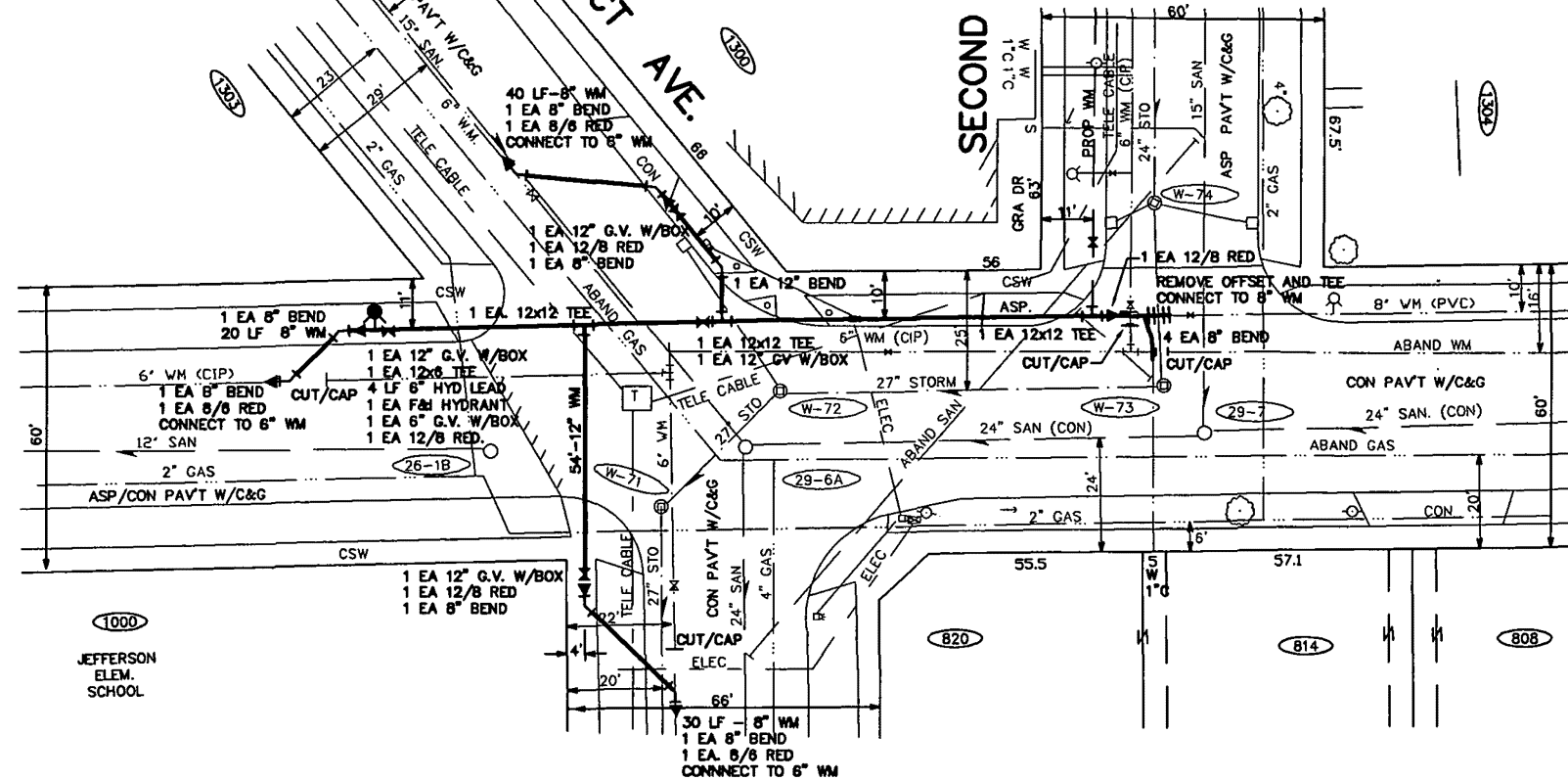
PROSPECT AVE.

SECOND ST.

ST.

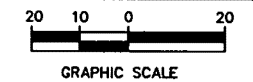


STA 1+00.00 C/L SECOND STREET
 BENCHMARKS:
 HYDRANT NW COR. MASON & SECOND 800.56(RD 0.58)
 HYDRANT SW COR. MASON & SECOND 800.69(RD 0.67)



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.
 - CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL & BARRICADING PER THE APPROVED TRAFFIC PLAN. SEE SPECIAL PROVISIONS FOR ALL REQUIREMENTS.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES

- 244 L.F. - F&I 12" WATER MAIN
- 103 L.F. - F&I 8" WATER MAIN
- 4 L.F. - F&I 6" HYDRANT LEAD
- 1 EA. - F&I HYDRANT
- 4 EA. - F&I 12" GATE VALVE W/BOX
- 1 EA. - F&I 6" GATE VALVE W/BOX
- 1 EA. - F&I 12" DIA., 45" BEND
- 10 EA. - F&I 8" DIA., 45" BEND
- 15 L.F. - F&I 1" SERVICE
- 1 EA. - SERVICE CONNECTION

REQ'D FITTINGS & MAT'L

- 3 EA. - 12x12 TEE
- 1 EA. - 12x6 TEE
- 4 EA. - 12/8 REDUCER
- 3 EA. - 8/6 REDUCER
- 1 EA. - 1" TYPE 'C' COUPLING
- 1 EA. - 1" CORPORATION STOP

800

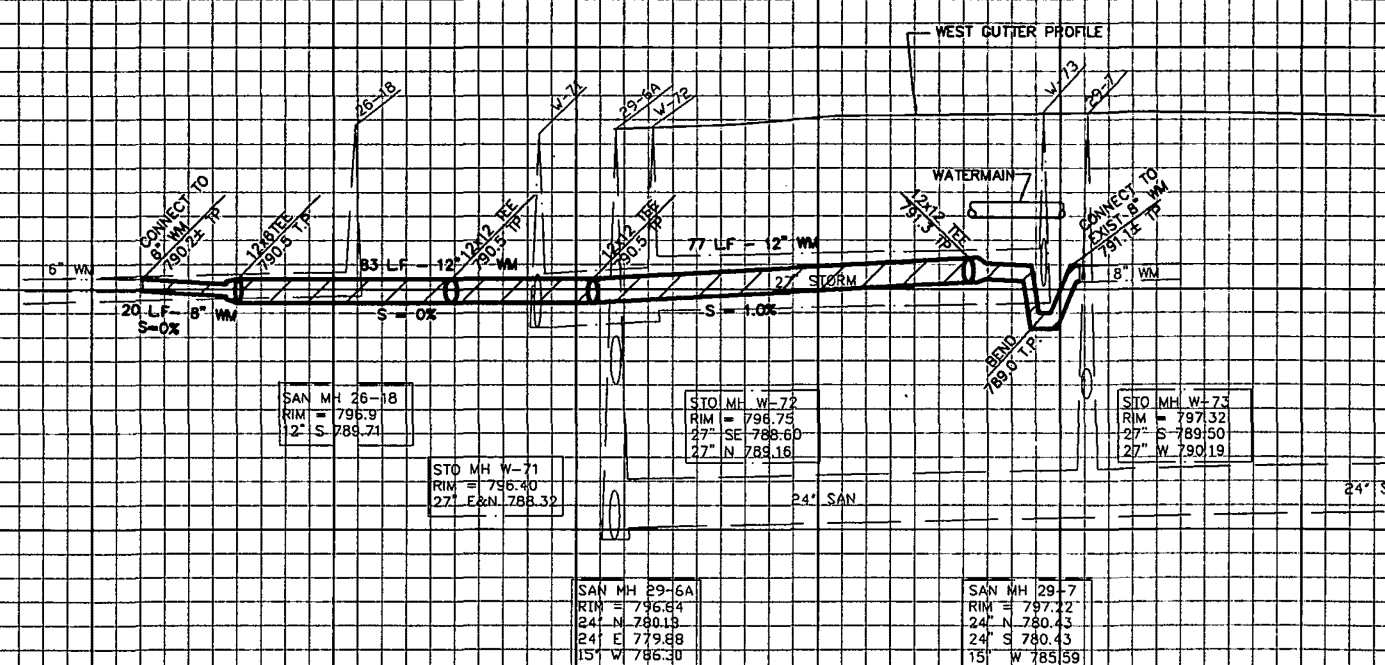
800

790

790

780

780



CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
MASON STREET
 PROSPECT AVE TO SECOND ST.

DWN: AAE CKD:
 DATE: 01/09/02 APP'D:

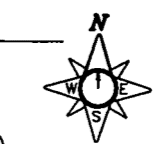
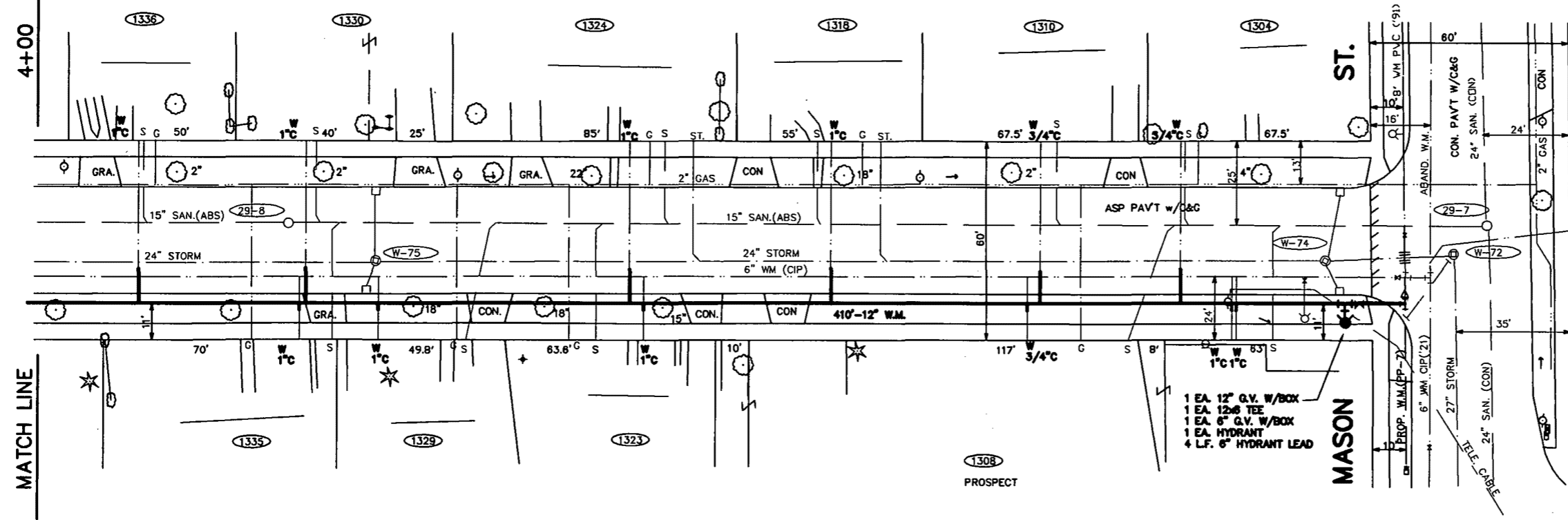
DRG. NO. 1/4 SEC. 0 53 PAGE NO.

W-1133 **7**

3+00 2+00 1+00

STA 0+00.00 W/L MASON STREET
 BENCHMARKS:
 HYDRANT NW COR. SECOND & MASON 800.56 (RD. 0.58)
 HYDRANT SW COR. SECOND & MASON 800.69 (RD. 0.67)

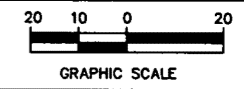
SECOND STREET



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.

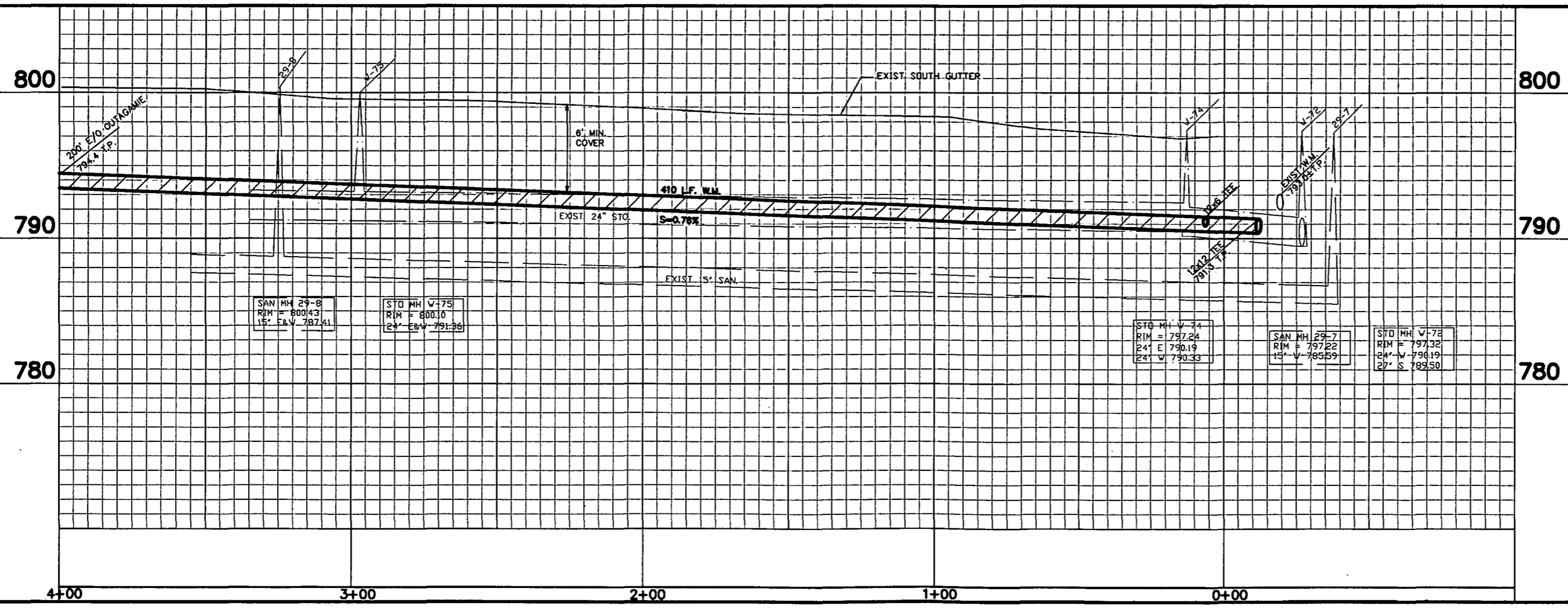
- 1 EA. 12" G.V. W/BOX
- 1 EA. 12" TEE
- 1 EA. 8" G.V. W/BOX
- 1 EA. HYDRANT
- 4 LF. 6" HYDRANT LEAD

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES**
- 414 LF. - 12" WATER MAIN
 - 4 LF. - 6" HYDRANT LEAD
 - 1 EA. - 6" HYDRANT
 - 1 EA. - 12" GATE VALVE W/BOX
 - 1 EA. - 6" GATE VALVE W/BOX
 - 95 LF. - 1" SERVICE
 - 12 EA. - SERVICE CONNECTION
- REQ'D FITTINGS & MAT'L**
- 1 EA. - 12x6 TEE
 - 9 EA. - 1" TYPE 'C' COUPLING
 - 3 EA. - 1"x3/4" 'C' COUPLING
 - 12 EA. - 1" CORPORATION STOP



CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

WATER MAIN

IN

SECOND STREET

MASON ST. TO 200' E/O OUTAGAMIE ST.

OWN: AAE CKD:
 DATE: 09/24/01 APP'D:

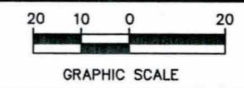
DRG. NO. 1/4 SEC. 0 53 PAGE NO.
W-1134 **8**

STA 0+00.00 W/L MASON STREET
 BENCHMARKS:
 HYDRANT NW COR. SECOND & MASON 800.56 (RD. 0.56)
 HYDRANT SW COR. SECOND & MASON 800.69 (RD. 0.67)
 HYDRANT SW COR. SECOND & OUTAGAMIE 804.47 (RD. 4.50)



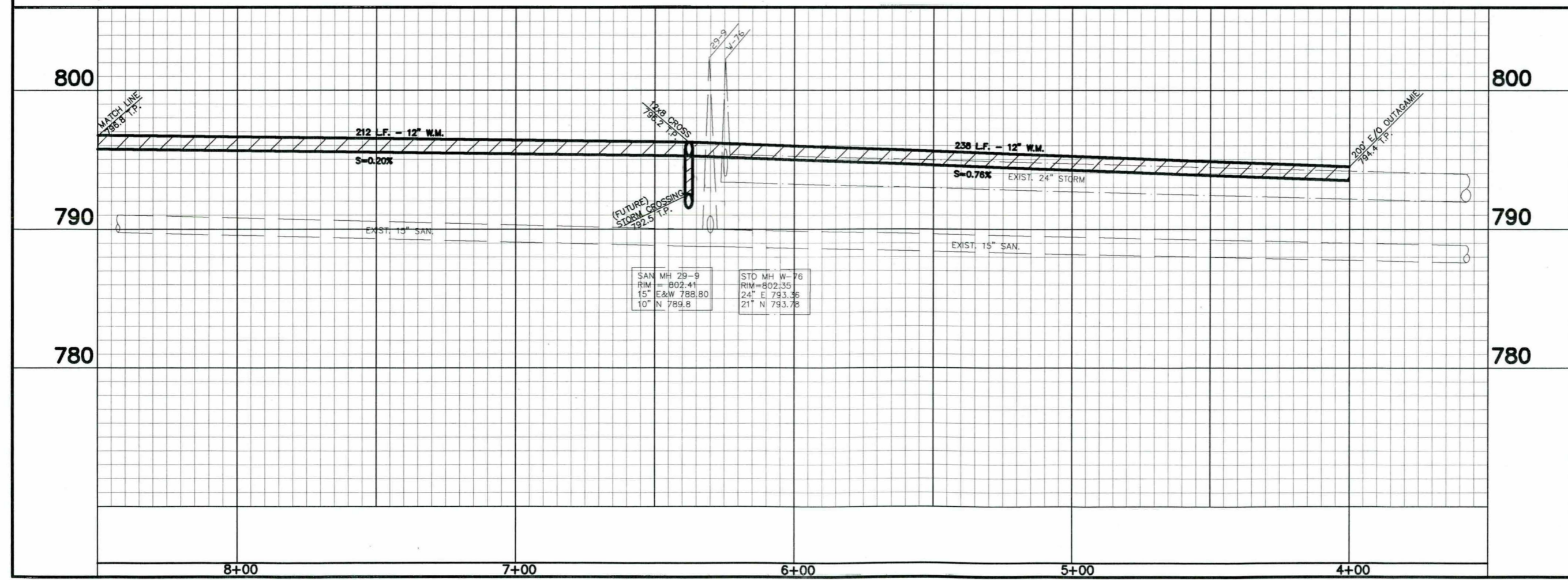
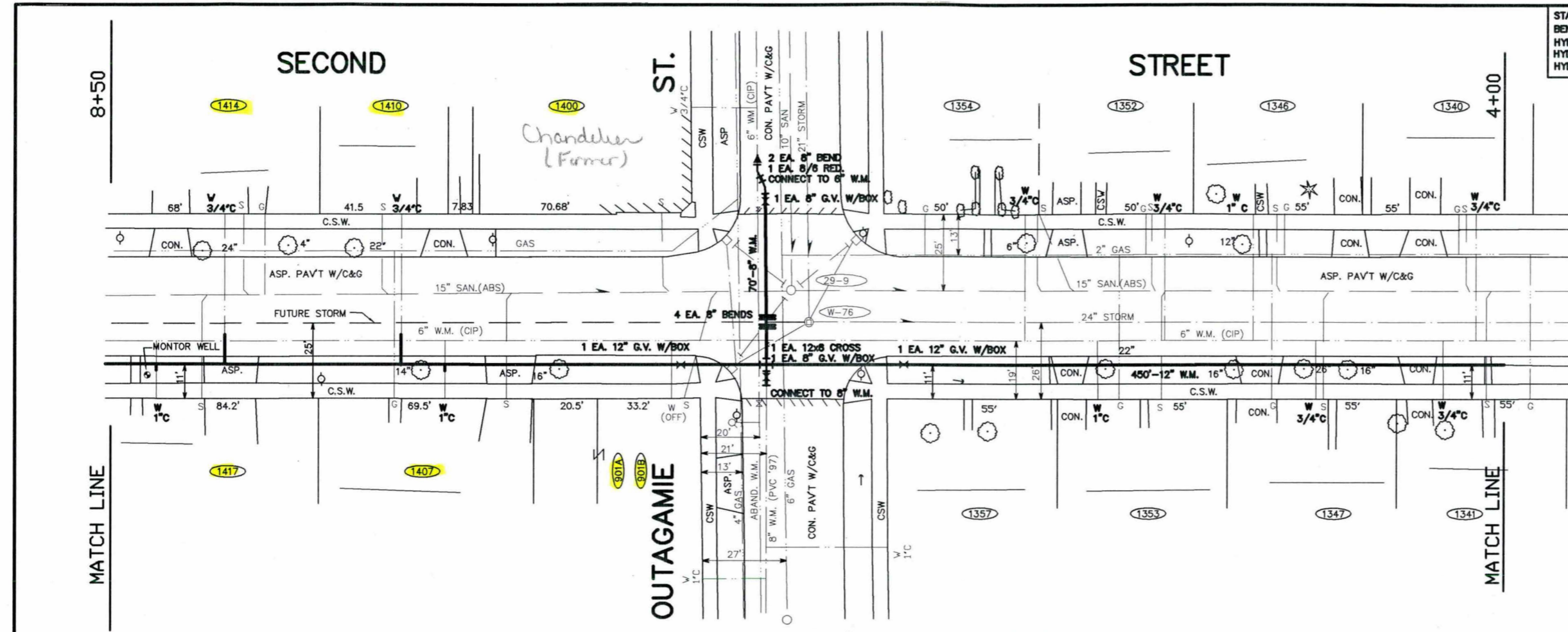
- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6' MIN. 6.5' COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES**
- 450 L.F. - 12" WATER MAIN
 - 70 L.F. - 8" WATER MAIN
 - 2 EA. - 12" GATE VALVE W/BOX
 - 2 EA. - 8" GATE VALVE W/BOX
 - 2 EA. - 8" DIA., 45° BEND
 - 80 L.F. - 1" SERVICE
 - 11 EA. - SERVICE CONNECTION
- REQ'D. FITTINGS & MAT'L**
- 1 EA. - 12x8 CROSS
 - 1 EA. - 8/6 REDUCER
 - 4 EA. - 1" TYPE 'C' COUPLING
 - 7 EA. - 1"x3/4" TYPE 'C' COUPLING
 - 11 EA. - 1" CORPORATION STOP



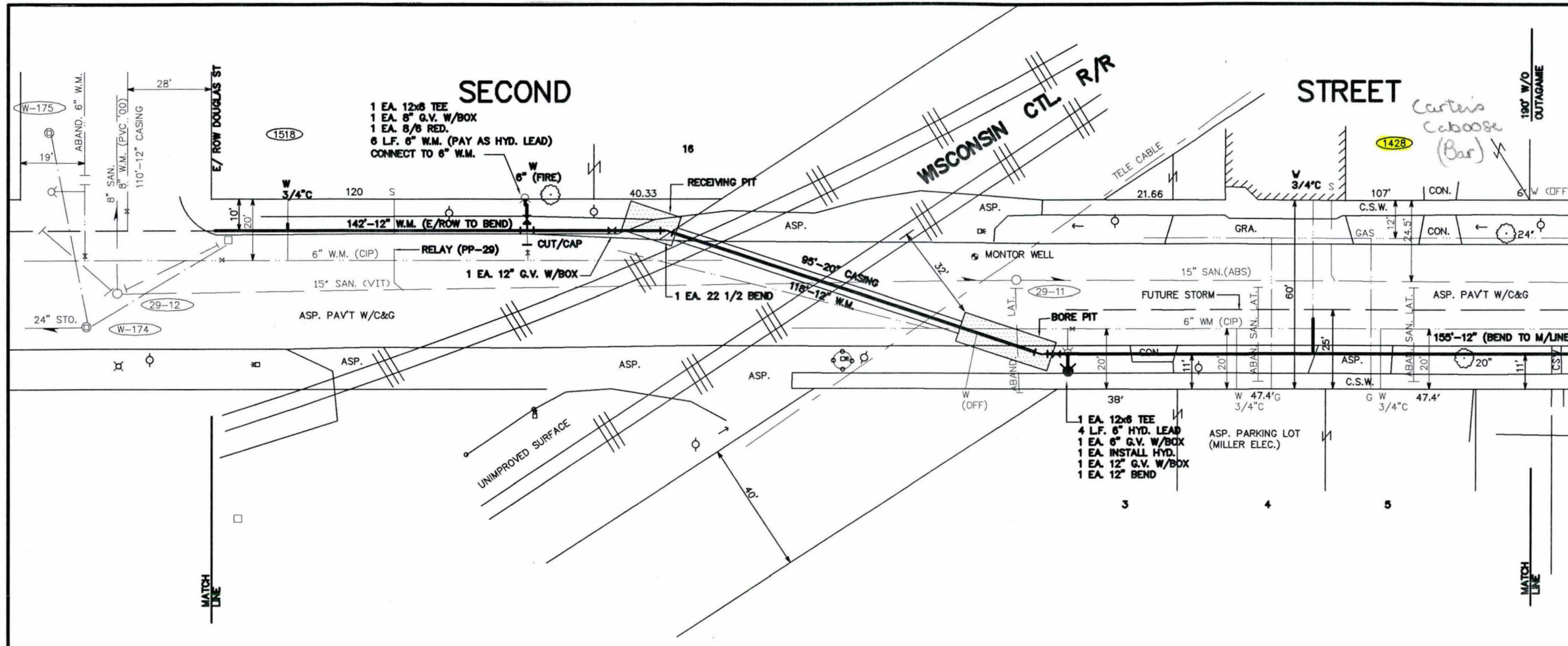
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

WATER MAIN
 IN
SECOND STREET

200' E/O OUTAGAMIE TO 140' W/O OUTAGAMIE

DWN: AAE CKD:
 DATE: 09/24/01 APP'D:

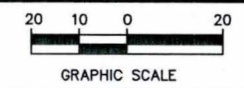
DRG. NO. 1/4 SEC. 0 53 PAGE NO.
W-1135 **9**



STA 0+00 W/L MASON STREET
 BENCHMARKS:
 HYDRANT NW COR. SECOND & MASON 800.56(RD. 0.56)
 HYDRANT SW COR. SECOND & MASON 800.69(RD. 0.67)
 HYDRANT SW COR. SECOND & OUTAGAME 804.47(RD. 4.50)

- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



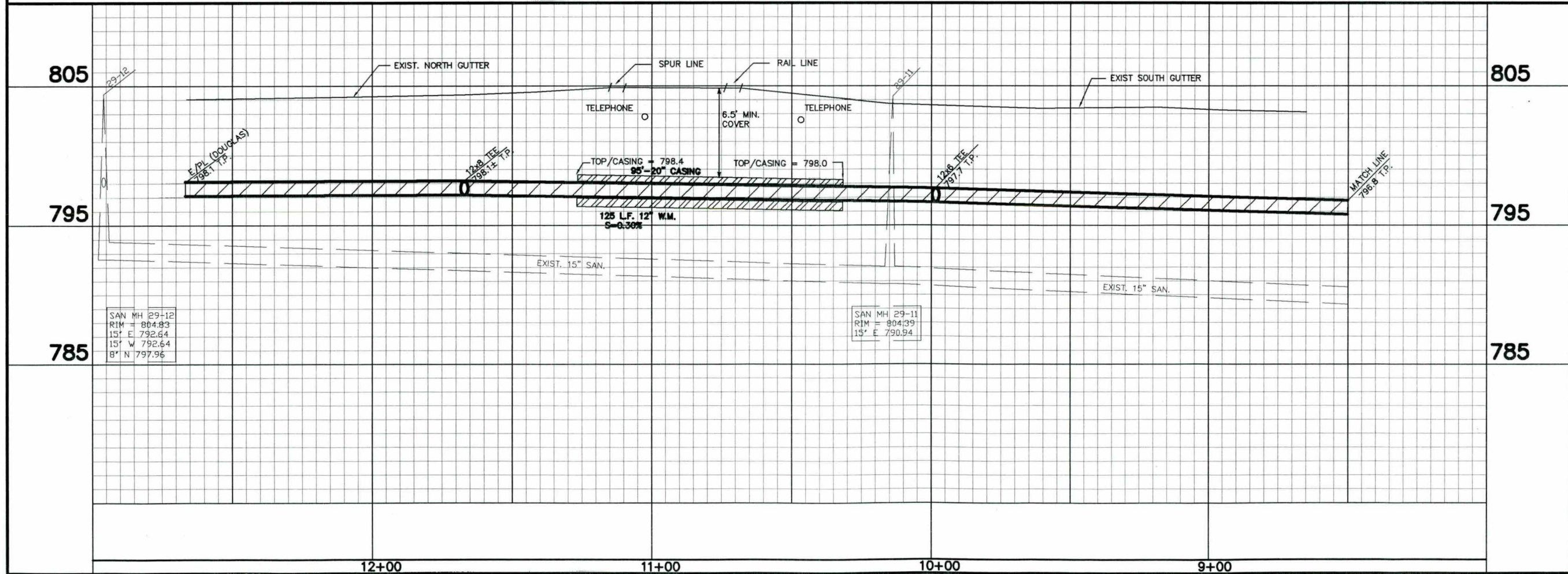
ESTIMATE OF QUANTITIES

WATER MAIN QUANTITIES

415 L.F.	- F&I 12" WATER MAIN
95 L.F.	- F&I 20" CASING (F&I)
8 L.F.	- F&I 6" HYDRANT LEAD
1 EA.	- F&I HYDRANT
2 EA.	- F&I 12" GATE VALVE W/BOX
1 EA.	- F&I 8" GATE VALVE W/BOX
1 EA.	- F&I 6" GATE VALVE W/BOX
2 EA.	- F&I 12" DIA., 22 1/2" BEND
15 L.F.	- F&I 1" SERVICE
2 EA.	- F&I SERVICE CONNECTION

REQ'D FITTINGS & MAT'L

1 EA.	- 12x8 TEE
1 EA.	- 12x6 TEE
2 EA.	- 1" x 3/4" TYPE 'C' COUPLING
2 EA.	- 1" CORPORATION STOP

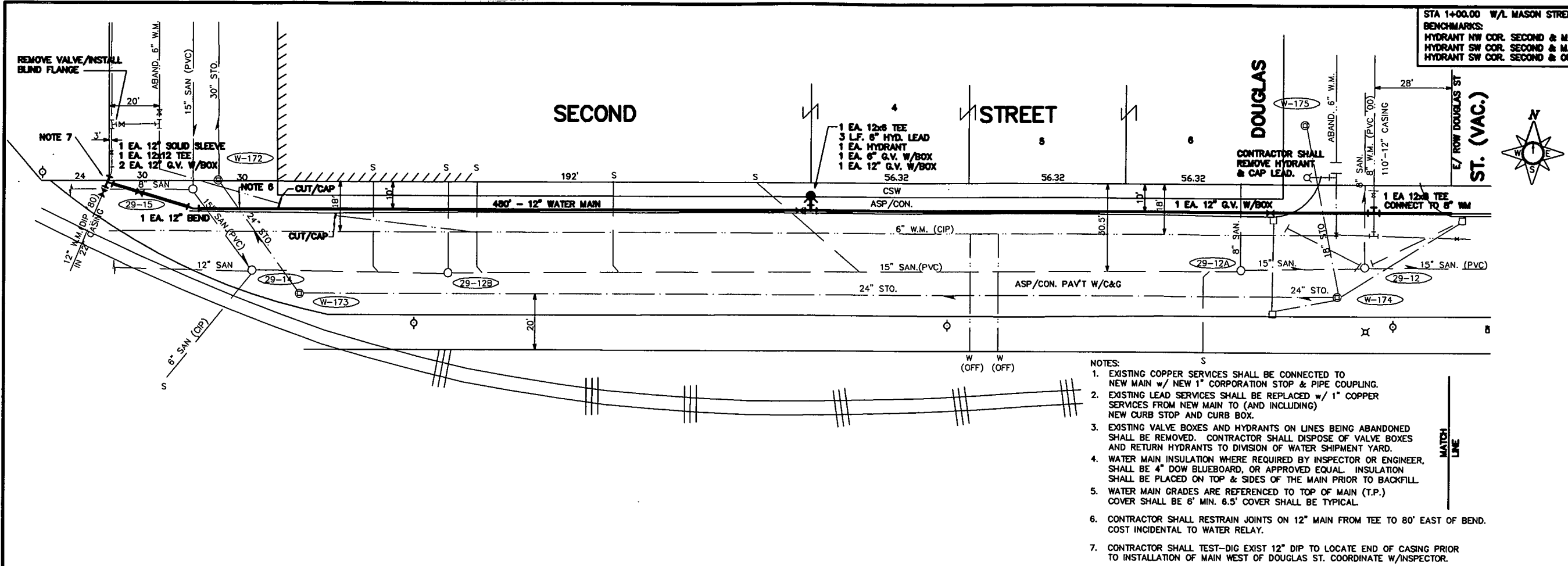


CITY OF APPLETON, WS.
 ENGINEERING DIVISION

WATER MAIN
 IN
SECOND STREET
 140' W/O OUTAGAME ST. TO DOUGLAS ST.

DWN: AAE CKD:
 DATE: 09/25/01 APP'D:

DRG. NO. 1/4 SEC. 0 53 PAGE NO.
W-1136 **10**



STA 14+00.00 W/L MASON STREET
 BENCHMARKS:
 HYDRANT NW COR. SECOND & MASON 800.58(RD. 0.58)
 HYDRANT SW COR. SECOND & MASON 800.69(RD. 0.67)
 HYDRANT SW COR. SECOND & OUTAGAME 804.47(RD. 4.60)

- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL. WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.
 - CONTRACTOR SHALL RESTRAIN JOINTS ON 12" MAIN FROM TEE TO 80' EAST OF BEND. COST INCIDENTAL TO WATER RELAY.
 - CONTRACTOR SHALL TEST-DIG EXIST 12" DIP TO LOCATE END OF CASING PRIOR TO INSTALLATION OF MAIN WEST OF DOUGLAS ST. COORDINATE W/INSPECTOR.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.

GRAPHIC SCALE

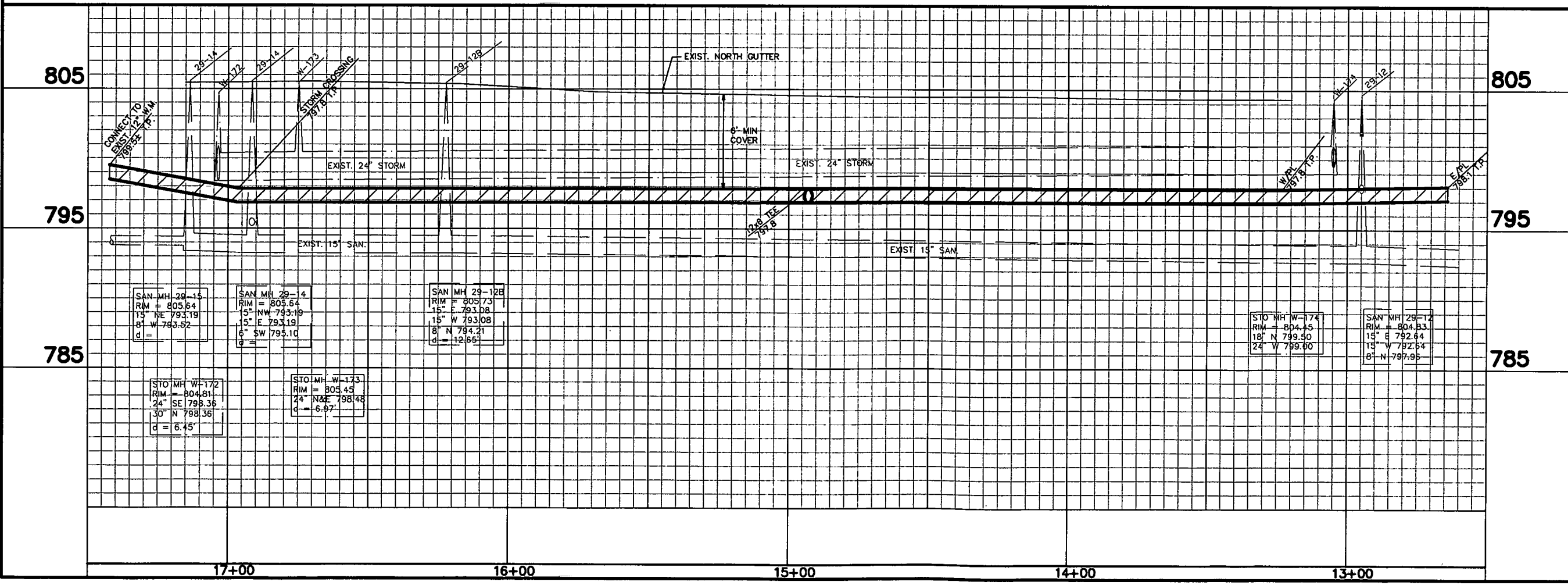
ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES

480 L.F. - F&I 12" WATER MAIN
 3 L.F. - F&I 6" HYDRANT LEAD
 1 EA. - F&I HYDRANT
 4 EA. - F&I 12" GATE VALVE W/BOX
 1 EA. - F&I 6" GATE VALVE W/BOX
 1 EA. - F&I 12" DIA. 22 1/2" BEND

REQ'D FITTINGS & MAT'L

1 EA. - 12x12 TEE
 1 EA. - 12x8 TEE
 1 EA. - 12x6 TEE
 1 EA. - 12" SOLID SLEEVE
 1 EA. - 6" BLIND FLANGE

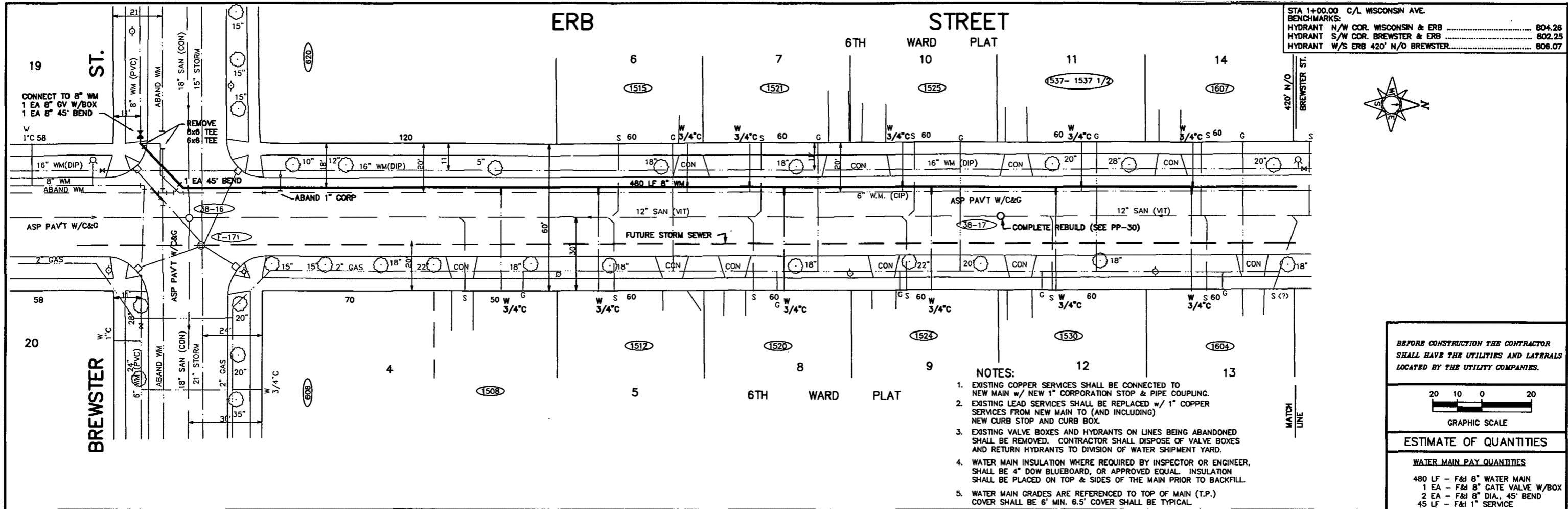


CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

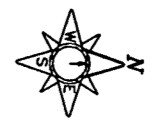
WATER MAIN
 IN
SECOND STREET
 DOUGLAS ST. TO MILLER CT.

DWN: AAE CKD:
 DATE: 09/28/01 APP'D:

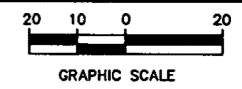
DRG. NO. 1/4 SEC. 0 53 PAGE NO.
W-1137 **11**



STA 1+00.00 C/L WISCONSIN AVE.
 BENCHMARKS:
 HYDRANT N/W COR. WISCONSIN & ERB 804.26
 HYDRANT S/W COR. BREWSTER & ERB 802.25
 HYDRANT W/S ERB 420' N/O BREWSTER 806.07



BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



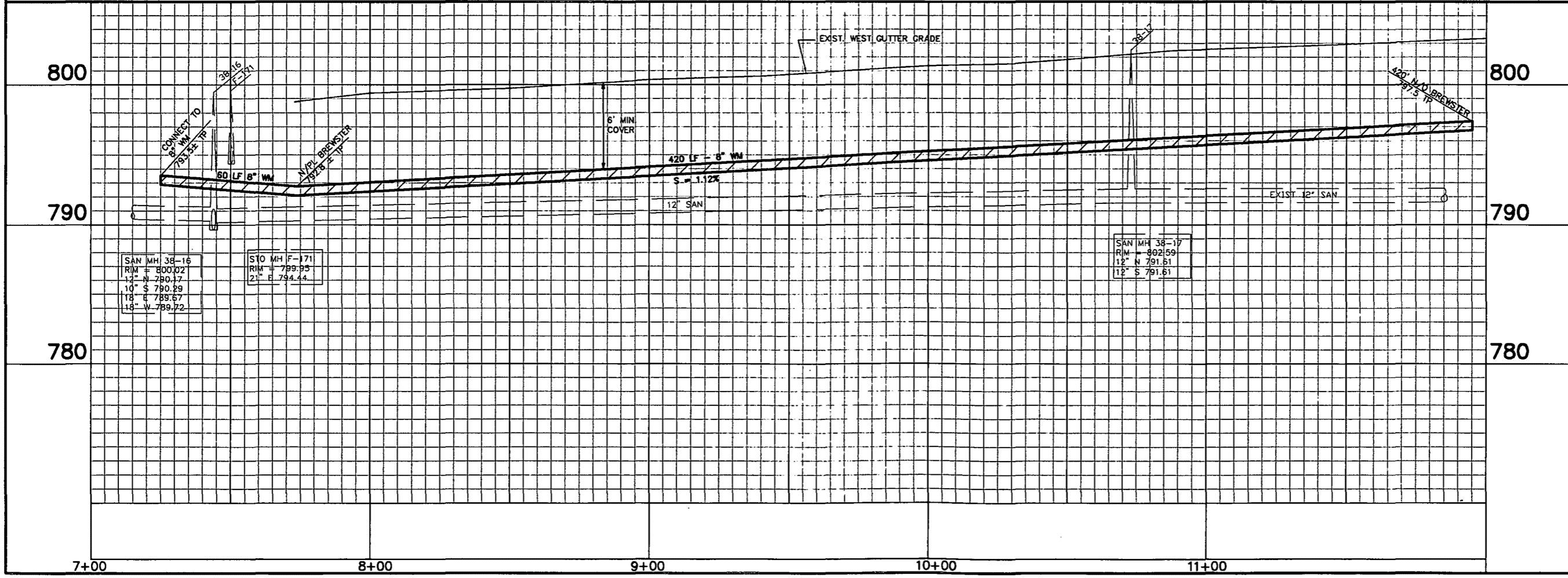
ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES

480 LF - F&I 8" WATER MAIN
 1 EA - F&I 8" GATE VALVE W/BOX
 2 EA - F&I 8" DIA., 45° BEND
 45 LF - F&I 1" SERVICE
 11 EA - F&I SERVICE CONNECTION

REQ'D FITTINGS & MATL

11 EA - 1"x 3/4" 'C' COUPLING
 11 EA - 1" CORPORATION STOP



CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

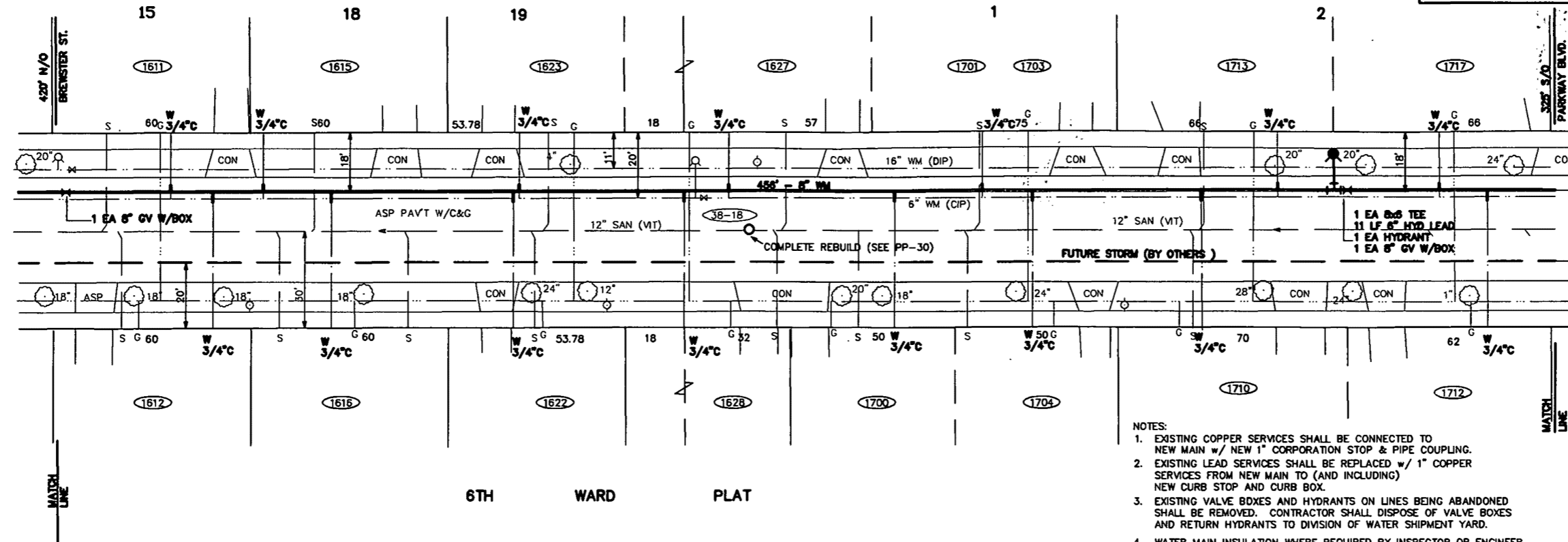
WATER MAIN
 IN
ERB STREET
 BREWSTER ST TO 420' N/O BREWSTER ST

DWN: AAE CKD:
 DATE: 10/03/01 APP'D:

DRG. NO. 1/4 SEC. Q50 PAGE NO.
W-1138 12

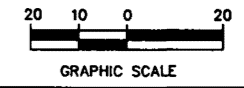
ERB 6TH WARD PLAT STREET

STA 1+00.00 C/L WISCONSIN AVE.
 BENCHMARKS:
 HYDRANT W/S ERB STREET @ HOUSE NO 1627 807.86
 HYDRANT S/W COR. PARKWAY & ERB 808.75



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



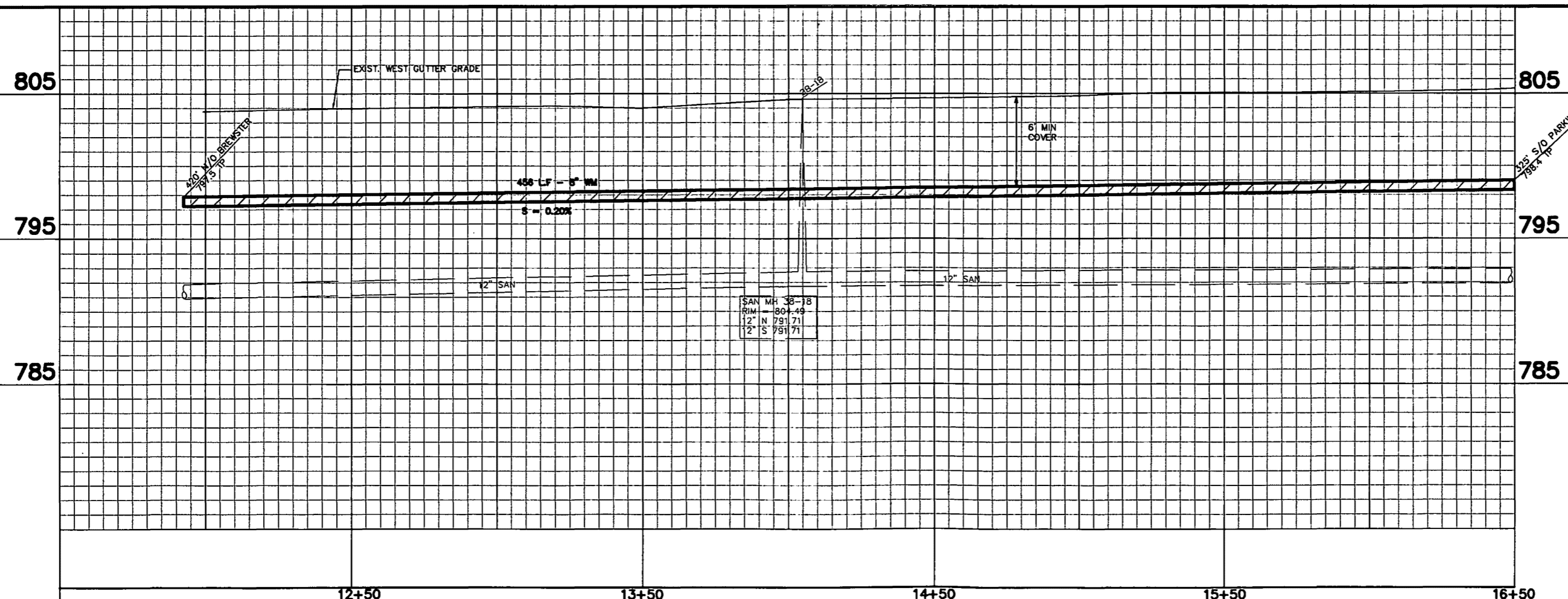
ESTIMATE OF QUANTITIES

WATER MAIN QUANTITIES

456 LF - F&I 8" WATER MAIN
 11 LF - F&I 6" HYDRANT LEAD
 1 EA - F&I HYDRANT
 2 EA - F&I 8" GATE VALVE W/BOX
 60 LF - F&I 1" SERVICE
 15 EA - F&I SERVICE CONNECTION

REQ'D FITTINGS & MAT'L

1 EA - 8x6 TEE
 15 EA - 1"x3/4" 'C' COUPLING
 15 EA - 1" CORPORATION STOP



CITY OF APPLETON, WS.
 ENGINEERING DIVISION

WATER MAIN
 IN
ERB STREET

420' N/O BREWSTER TO 325' S/O PARKWAY

DWN: AAE CKD:
 DATE: 10/01/01 APP'D:

DRG. NO. 1/4 SEC. Q50 PAGE NO.
W-1139 **13**

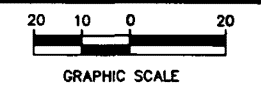
STA 1+00.00 C/L WISCONSIN AVE.
 BENCHMARKS:
 HYDRANT W/S ERB @ HOUSE 1612 807.86
 HYDRANT S/W COR. PARKWAY & ERB 808.75



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6' MIN. 6.5' COVER SHALL BE TYPICAL.

PROP. SAN. REDONST.
 (SEE PAGE 28,27)

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



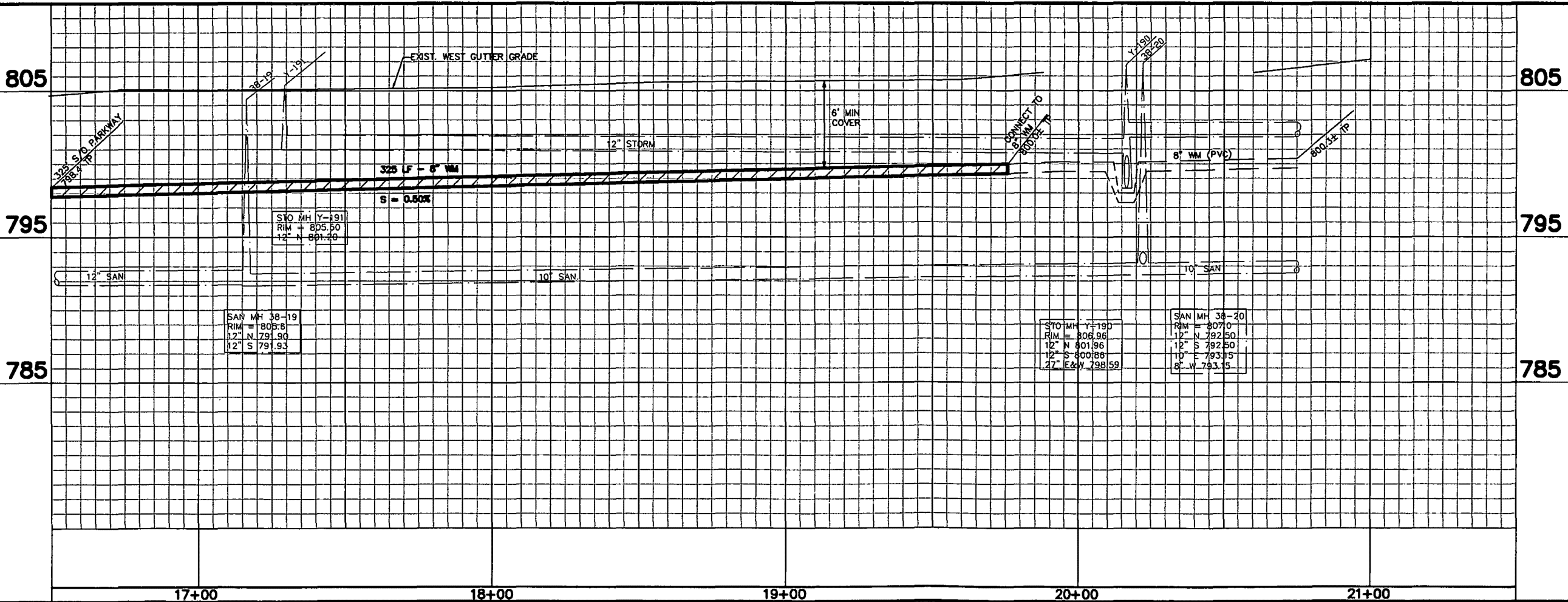
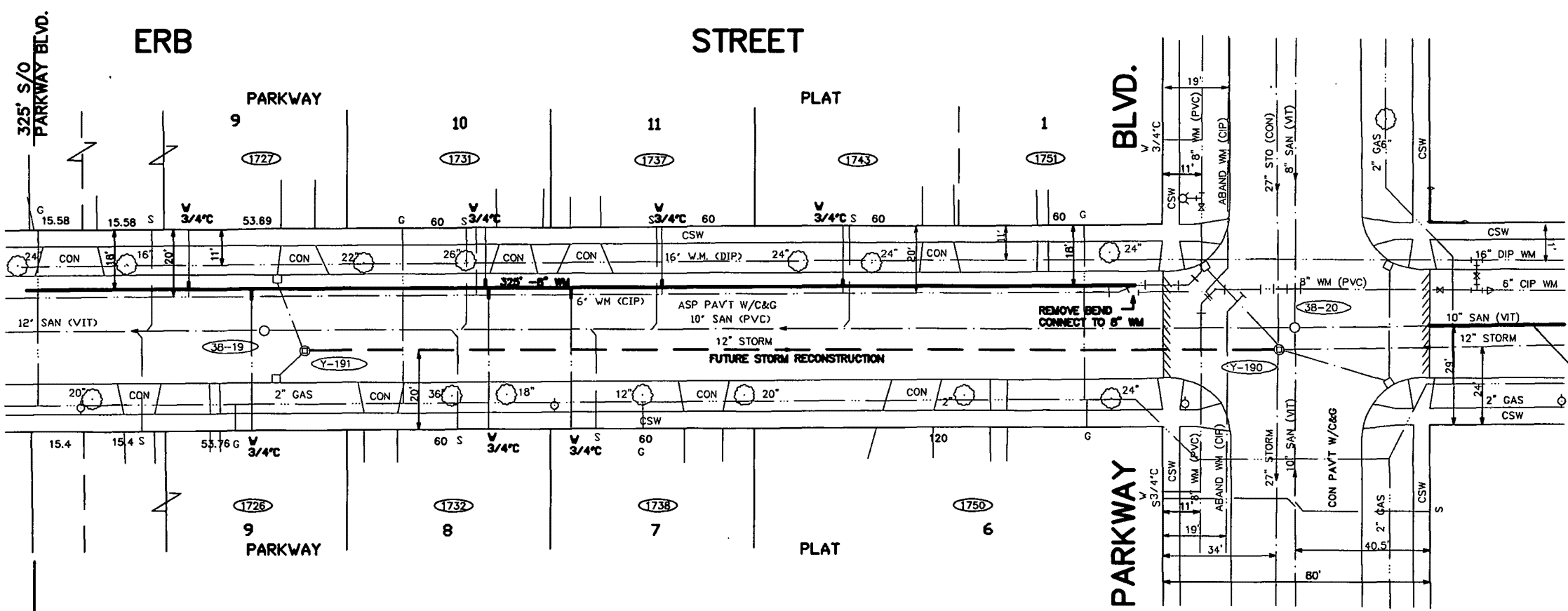
ESTIMATE OF QUANTITIES

WATER MAIN QUANTITIES

- 325 LF - F&I 8" WATER MAIN
- 30 LF - F&I 1" SERVICE
- 7 EA - F&I SERVICE CONNECTION

REQUIRED FITTINGS & MAT'L

- 1 EA - 8" SOLID SLEEVE
- 7 EA - 1" X 3/4" TYPE "C" COUPLING
- 7 EA - 1" CORPORATION STOP

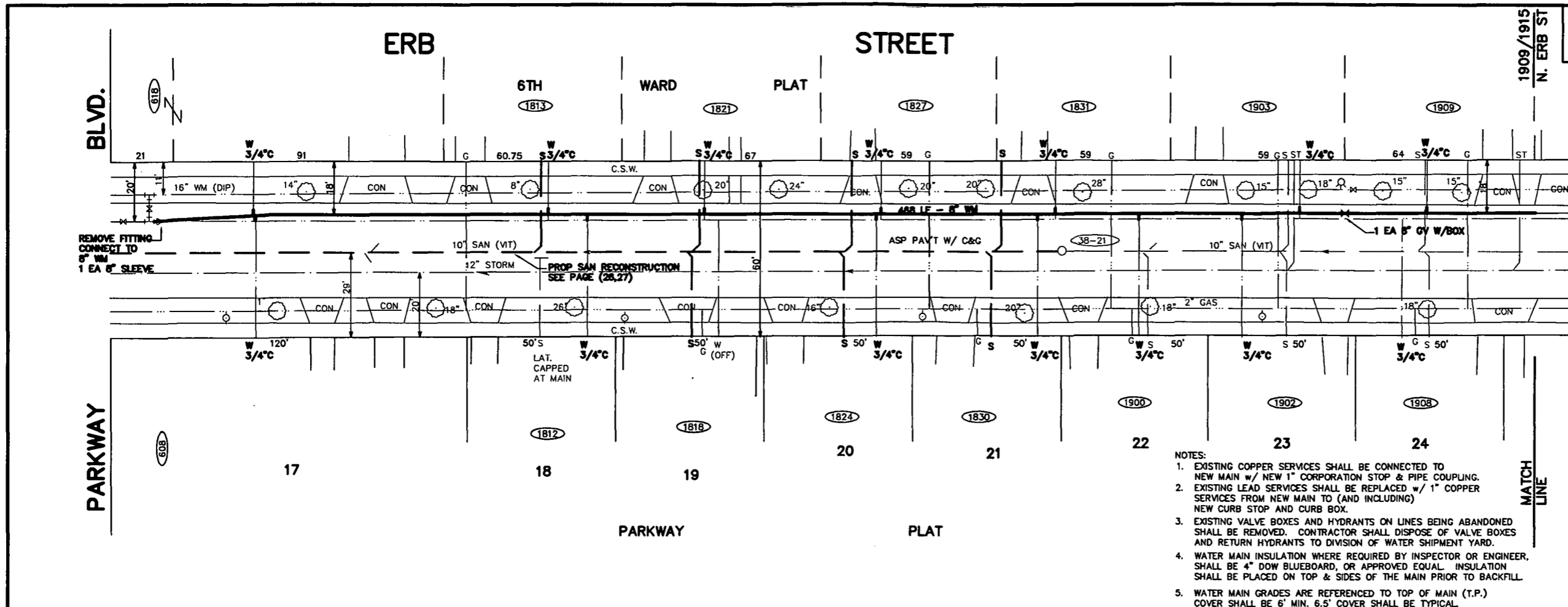


CITY OF APPLETON, WS.
 ENGINEERING DIVISION

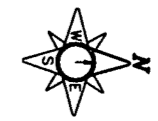
WATER MAIN
 IN
ERB STREET
 325' S/O PARKWAY BLVD TO PARKWAY BLVD

OWN: AAE CKD:
 DATE: 09/28/01 APP'D:

DRG. NO. 1/4 SEC. Q50 PAGE NO.
W-1140 **14**

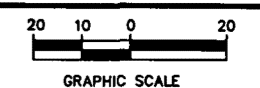


STA 1+00.00 C/L WISCONSIN AVENUE
 BENCHMARKS:
 HYDRANT S/W COR. PARKWAY & ERB 808.75
 HYDRANT W/S ERB @ HOUSE NO. 1903 811.70



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.

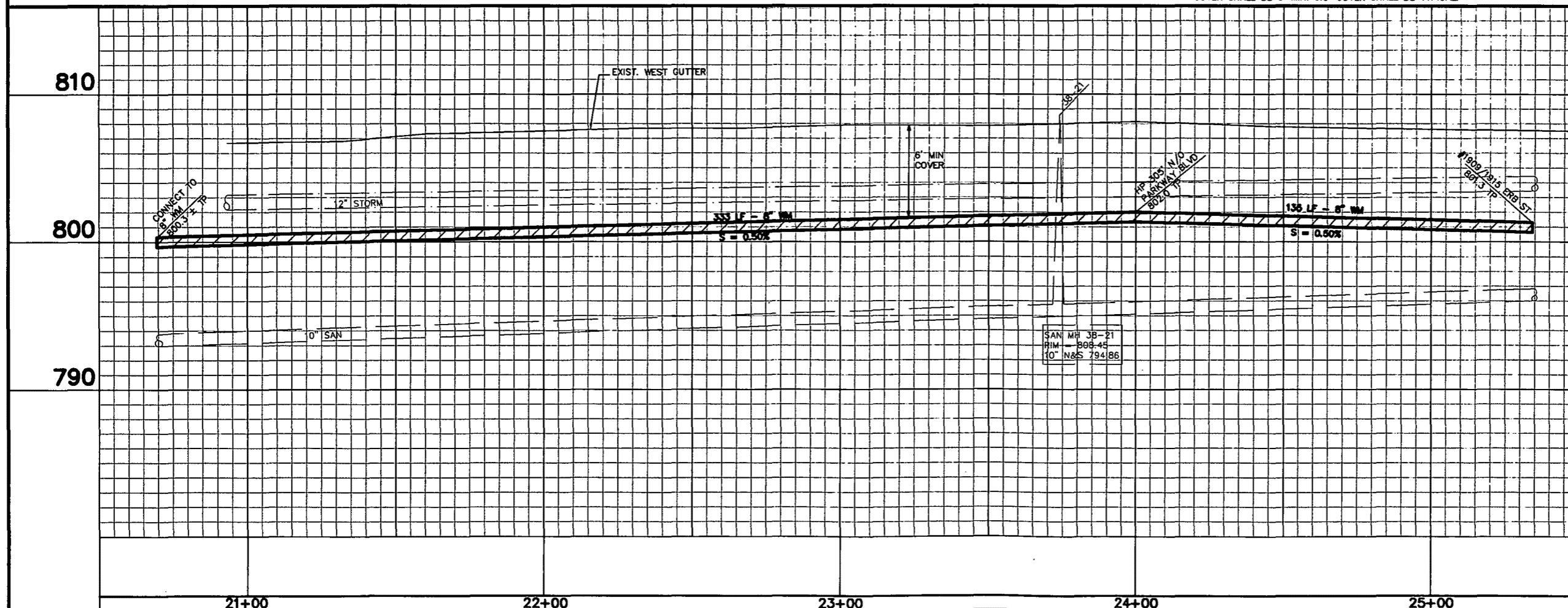
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES
 468 LF - F&I 8" WATER MAIN
 1 EA - F&I 8" GATE VALVE W/BOX
 55 LF - F&I 1" SERVICE
 14 EA - F&I SERVICE CONNECTION

REQ'D FITTINGS & MAT'L
 1 EA - 8" SOLID SLEEVE
 13 EA - 1"x3/4" 'C' COUPLING
 1 EA - 1" TYPE 'C' COUPLING
 14 EA - CORPORATION STOP



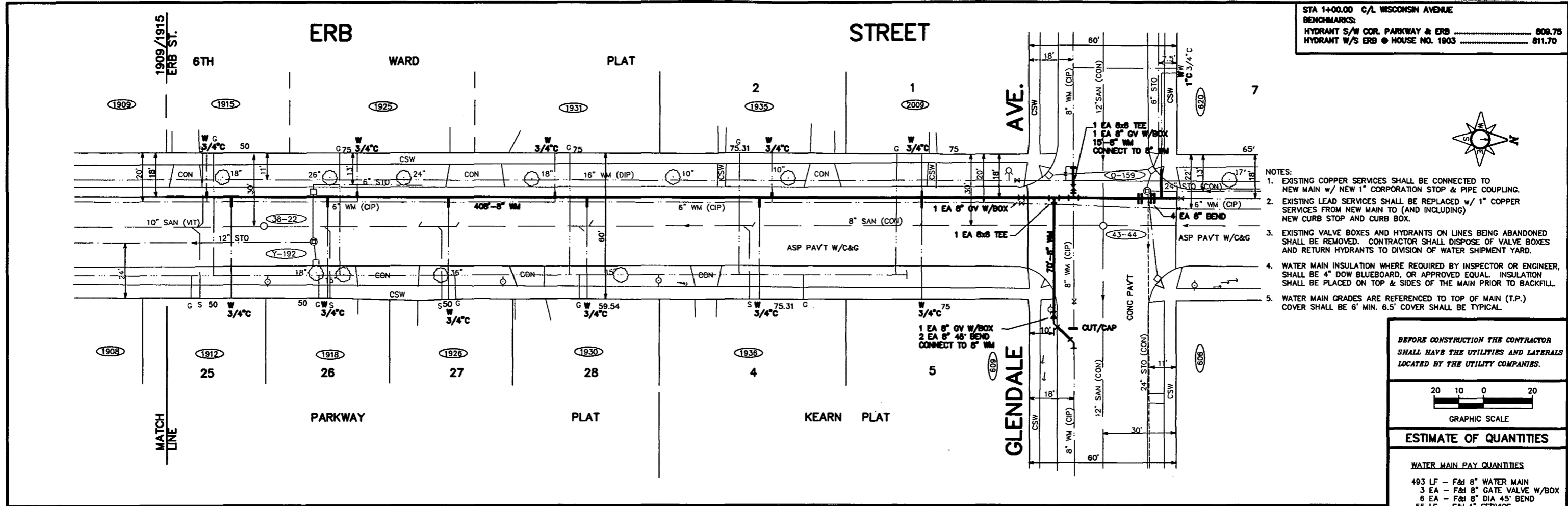
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

WATER MAIN
 IN
ERB STREET

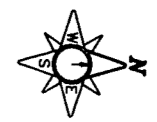
N/PL PARKWAY TO 350' S/O GLENDALE AVE

DATE: AAE CKD:
 DATE: 11/06/01 APP'D:

DRG. NO. 1/4 SEC. Q50 PAGE NO.
W-1141 **15**

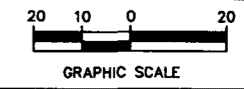


STA 1+00.00 C/L WISCONSIN AVENUE
 BENCHMARKS:
 HYDRANT S/W COR. PARKWAY & ERB 808.75
 HYDRANT W/S ERB @ HOUSE NO. 1903 811.70



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.

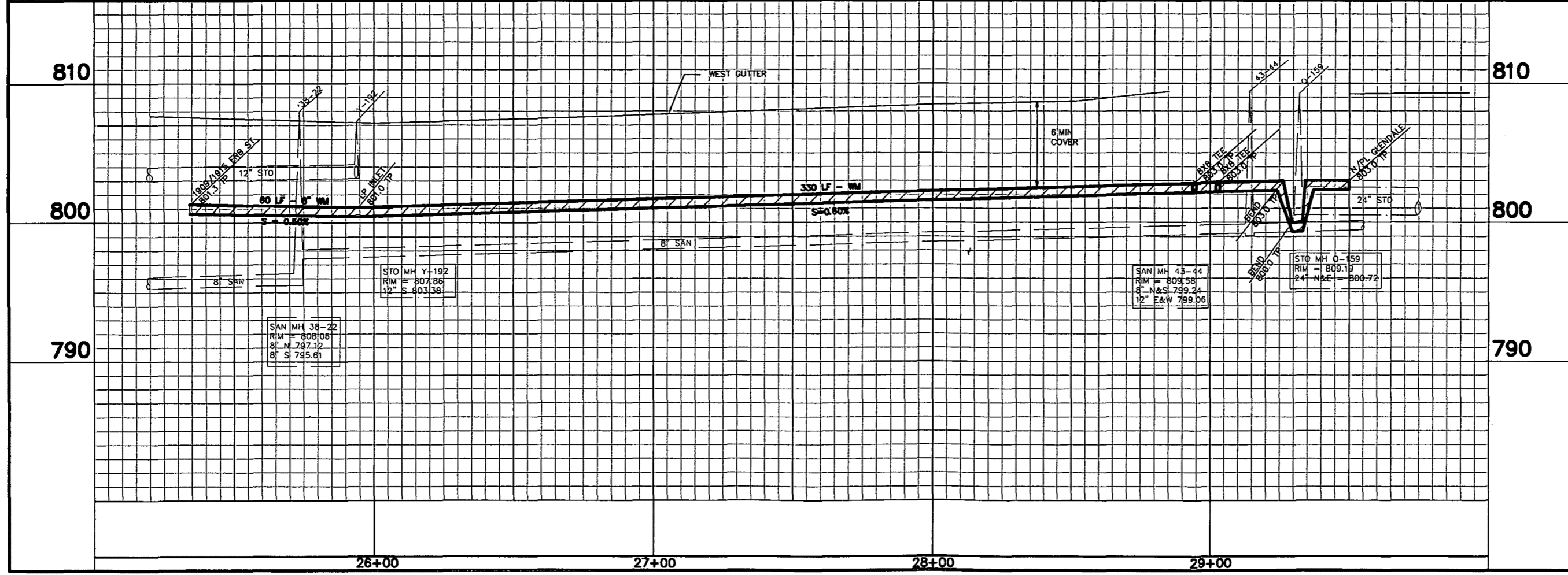
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

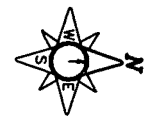
WATER MAIN PAY QUANTITIES
 493 LF - F&I 8" WATER MAIN
 3 EA - F&I 8" GATE VALVE W/BOX
 8 EA - F&I 8" DIA 45' BEND
 55 LF - F&I 1" SERVICE
 12 EA - F&I SERVICE CONNECTION

REQ'D FITTINGS & MAT'L
 2 EA - 8x8 TEE
 11 EA - 1"x3/4" 'C' COUPLING
 11 EA - 1" CORPORATION STOP



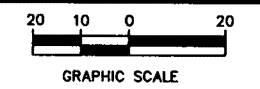
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
ERB STREET
 350' S/O GLENDALE AVE TO GLENDALE AVE
 DATE: AAE CKD:
 DATE: 11/07/01 APP'D:
 DRG. NO. 1/4 SEC. Q50 PAGE NO.
W-1142 **16**

STA 1+00.00 N/L WISCONSIN AVENUE
 BENCHMARKS:
 HYDRANT #1958 SW COR GLENDALE & ERB812.11
 HYDRANT #34 SW COR MARQUETTE & ERB816.78



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

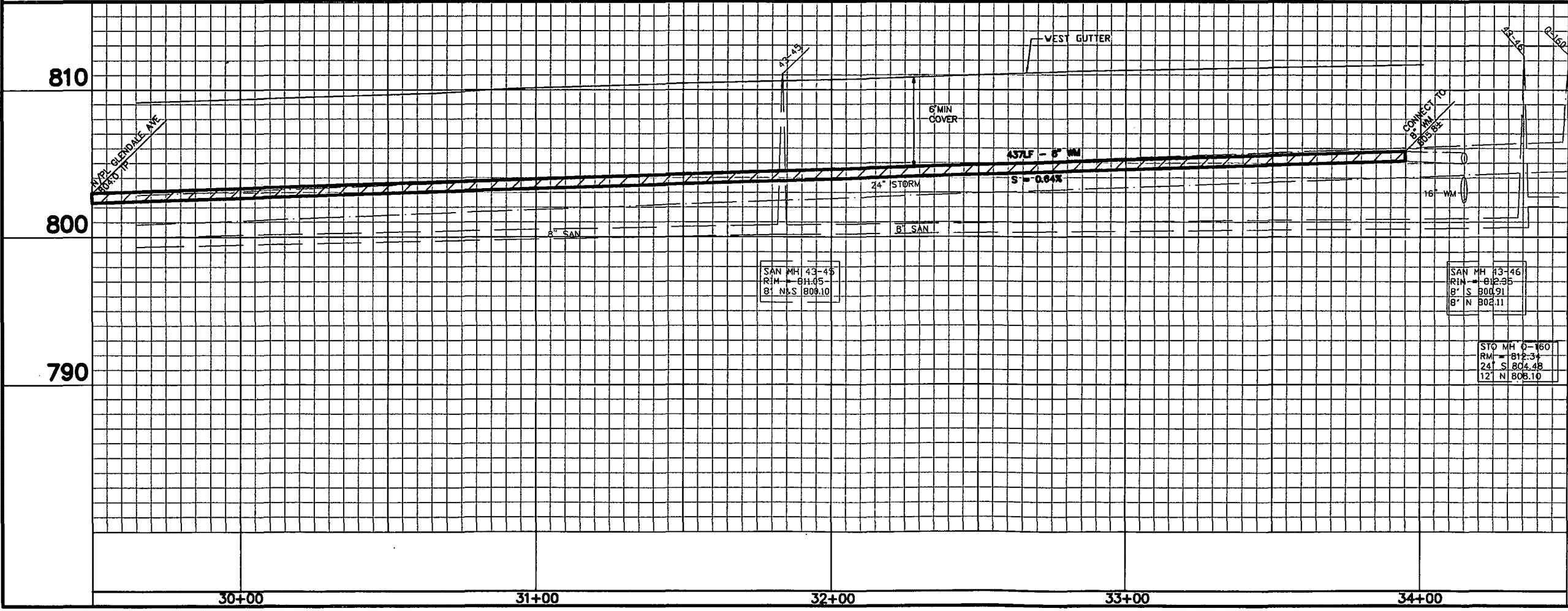
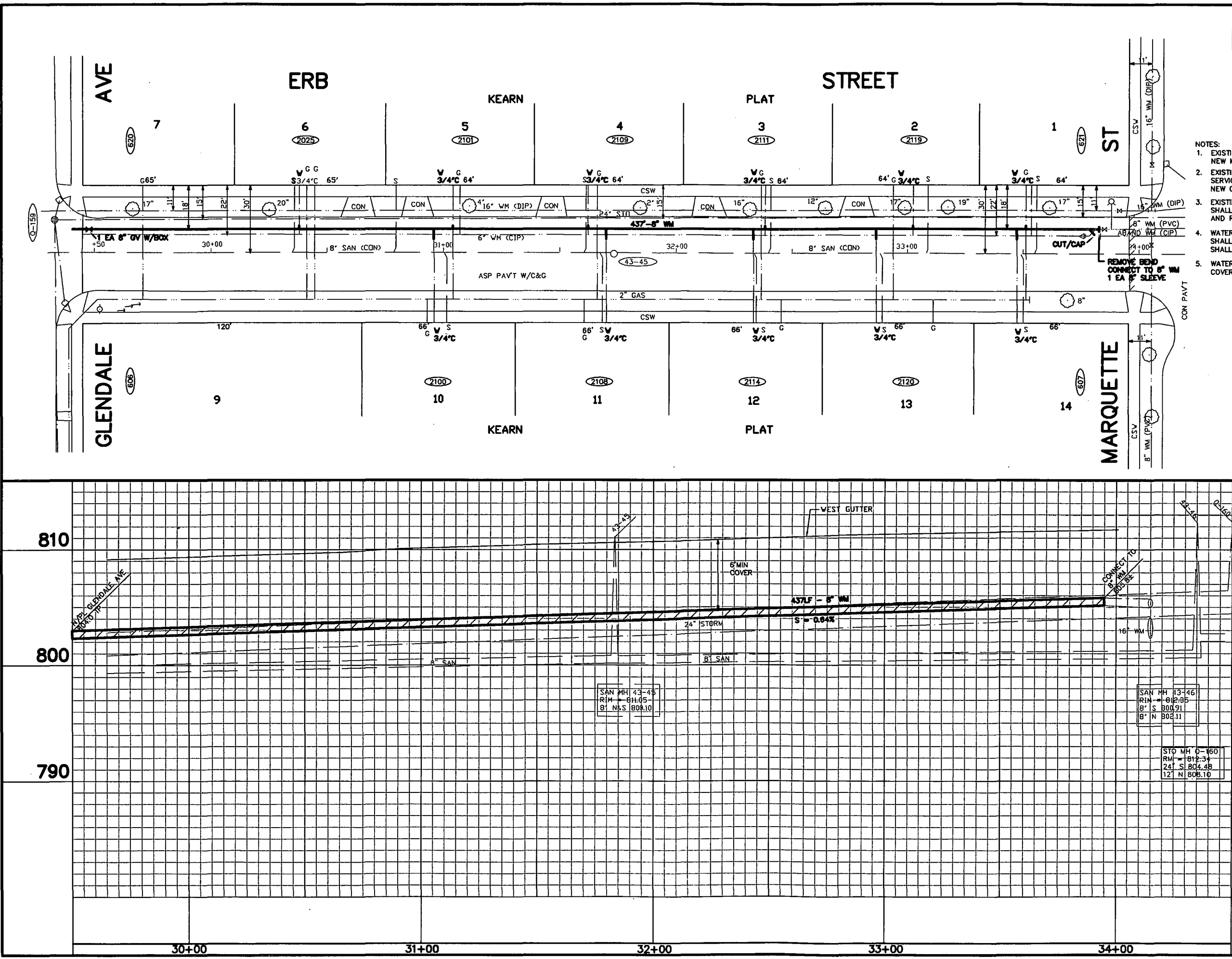
WATER MAIN PAY QUANTITIES
 437 LF - F&B 8" WATER MAIN
 1 EA - F&B 8" GATE VALVE W/BOX
 55 LF - F&B 1" SERVICE
 11 EA - F&B SERVICE CONNECTION

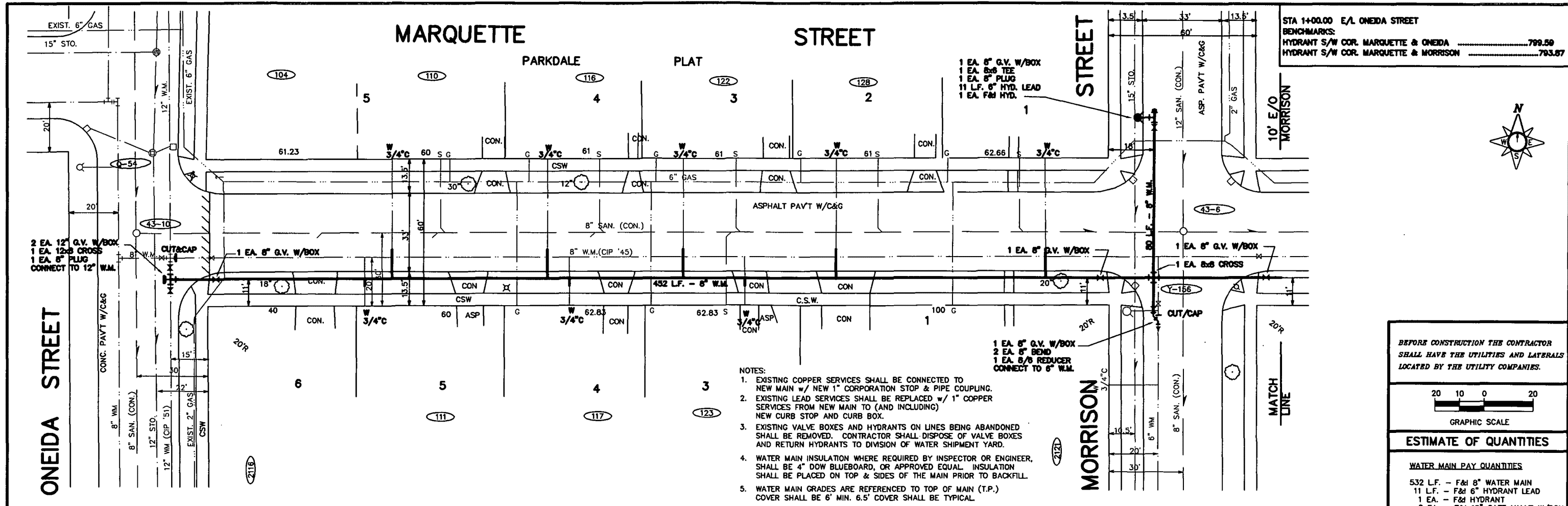
REQ'D FITTINGS AND MAT'L
 1 EA - 8" SOLID SLEEVE
 11 EA - 1"x3/4" 'C' COUPLING
 11 EA - 1" CORPORATION STOP

CITY OF APPLETON, WS.
 ENGINEERING DIVISION
WATER MAIN
 IN
ERB STREET
 GLENDALE AVE. TO MARQUETTE ST.

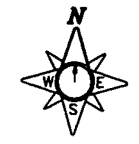
DWN: AAE CKD:
 DATE: 09/18/01 APP'D:

DRG. NO. 1/4 SEC. Q-49 PAGE NO.
W-1143 **17**



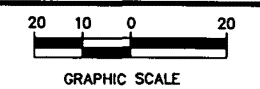


STA 1+00.00 E/L ONEIDA STREET
 BENCHMARKS:
 HYDRANT S/W COR. MARQUETTE & ONEIDA 789.50
 HYDRANT S/W COR. MARQUETTE & MORRISON 793.67



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.

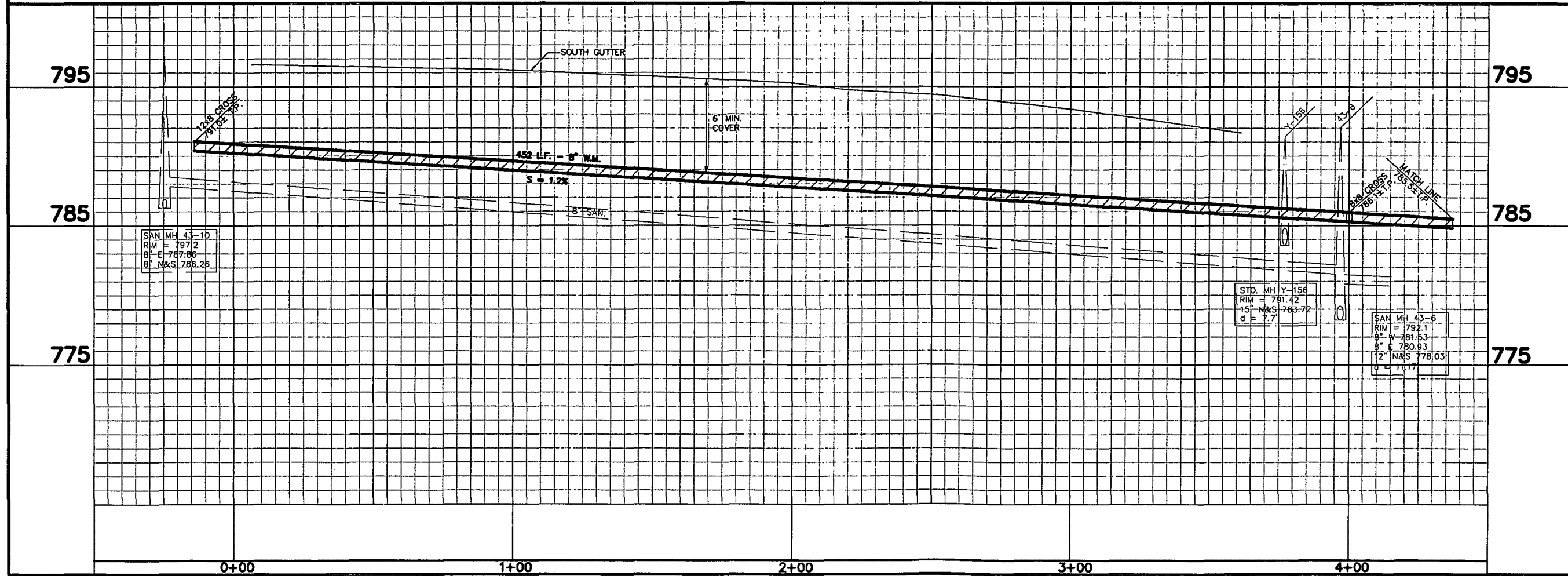
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES**
- 532 L.F. - F&I 8" WATER MAIN
 - 11 L.F. - F&I 6" HYDRANT LEAD
 - 1 EA. - F&I HYDRANT
 - 2 EA. - F&I 12" GATE VALVE W/BOX
 - 5 EA. - F&I 8" GATE VALVE W/BOX
 - 2 EA. - F&I 8" DIA., 45' BEND
 - 69 L.F. - F&I 1" SERVICE
 - 8 EA. - SERVICE CONNECTION

- REQ'D FITTINGS & MAT'L'S**
- 1 EA. - 12x8 CROSS
 - 1 EA. - 8x8 CROSS
 - 1 EA. - 8x6 TEE
 - 1 EA. - 8/6 REDUCER
 - 2 EA. - 8" PLUG
 - 8 EA. - 1"x3/4" "C" COUPLING
 - 8 EA. - 1" CORPORATION STOP

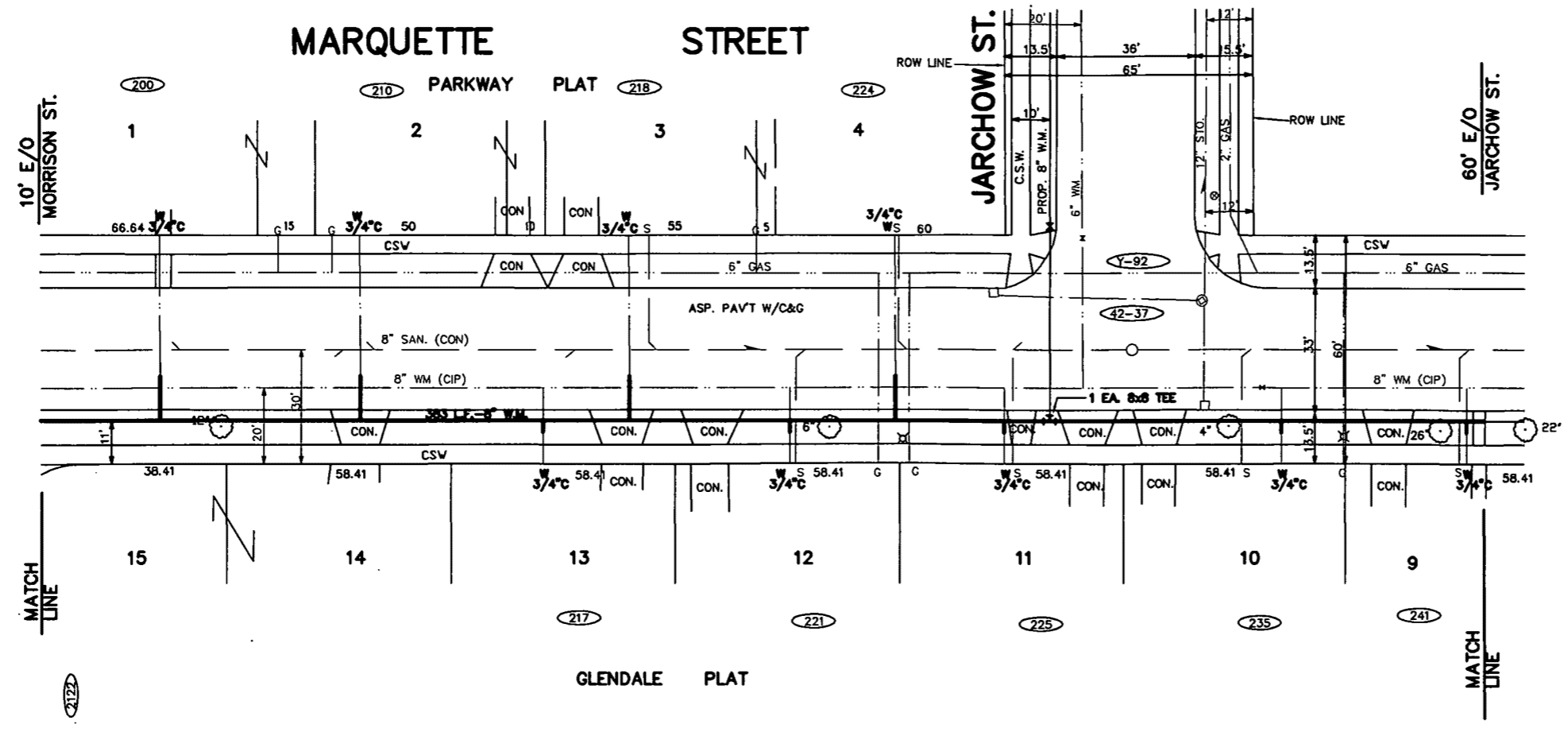


CITY OF APPLETON, WS.
 ENGINEERING DIVISION
WATER MAIN
 IN
MARQUETTE ST.
 ONEIDA ST TO MORRISON ST

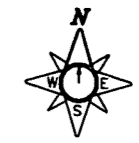
DWN: AAE CKD:
 DATE: 01/11/01 APP'D:

DRG. NO. 1/4 SEC. R 49 PAGE NO.
W-1144 **18**

MARQUETTE STREET

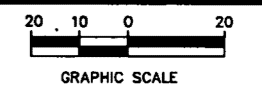


STA 1+00.00 E/L ONEIDA STREET
 BENCHMARKS:
 HYDRANT S/W COR. MARQUETTE & MORRISON 793.87
 HYDRANT S/W COR. MARQUETTE & UNION 790.02



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.

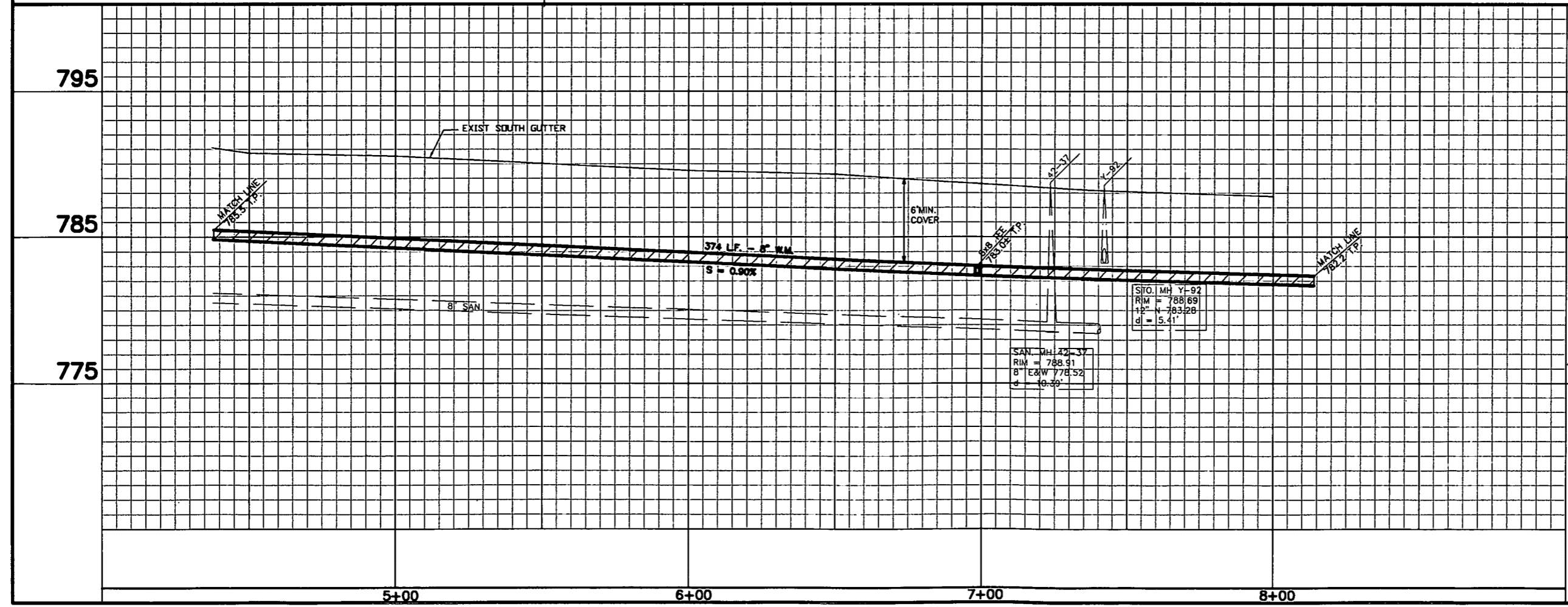
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES
 374 L.F. - F&d 8" WATER MAIN
 60 L.F. - F&d 1" SERVICE
 9 EA. - SERVICE CONNECTION

REQ'D FITTINGS & MAT'L'S
 9 EA. - 1"x3/4" 'C' COUPLING
 9 EA. - 1" CORPORATION STOP



CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

WATER MAIN IN MARQUETTE ST MORRISON ST TO JARCHOW ST

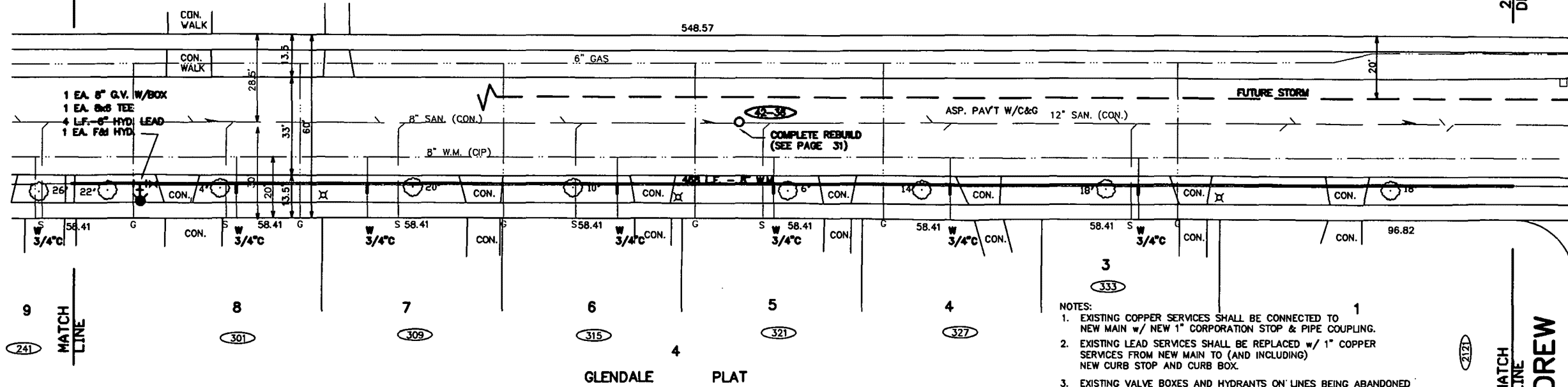
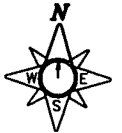
DWN: AAE CKD:
 DATE: 09/11/01 APP'D:

DRG. NO. 1/4 SEC. R 49 PAGE NO.
W-1145 **19**

MARQUETTE STREET

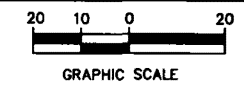
PARKDALE PLAT 13

STA 1+00.00 E/L ONEIDA STREET
 BENCHMARKS:
 HYDRANT S/W COR. MARQUETTE & MORRISON 783.87
 HYDRANT S/W COR. MARQUETTE & DREW 783.64



- NOTES:
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 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
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 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6' MIN. 6.5' COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES

- 468 LF. - F&I 8" WATER MAIN
- 4 LF. - F&I 6" HYDRANT LEAD
- 1 EA. - F&I HYDRANT
- 1 EA. - F&I 8" GATE VALVE W/BOX
- 20 LF. - F&I 1" SERVICE
- 6 EA. - SERVICE CONNECTIONS

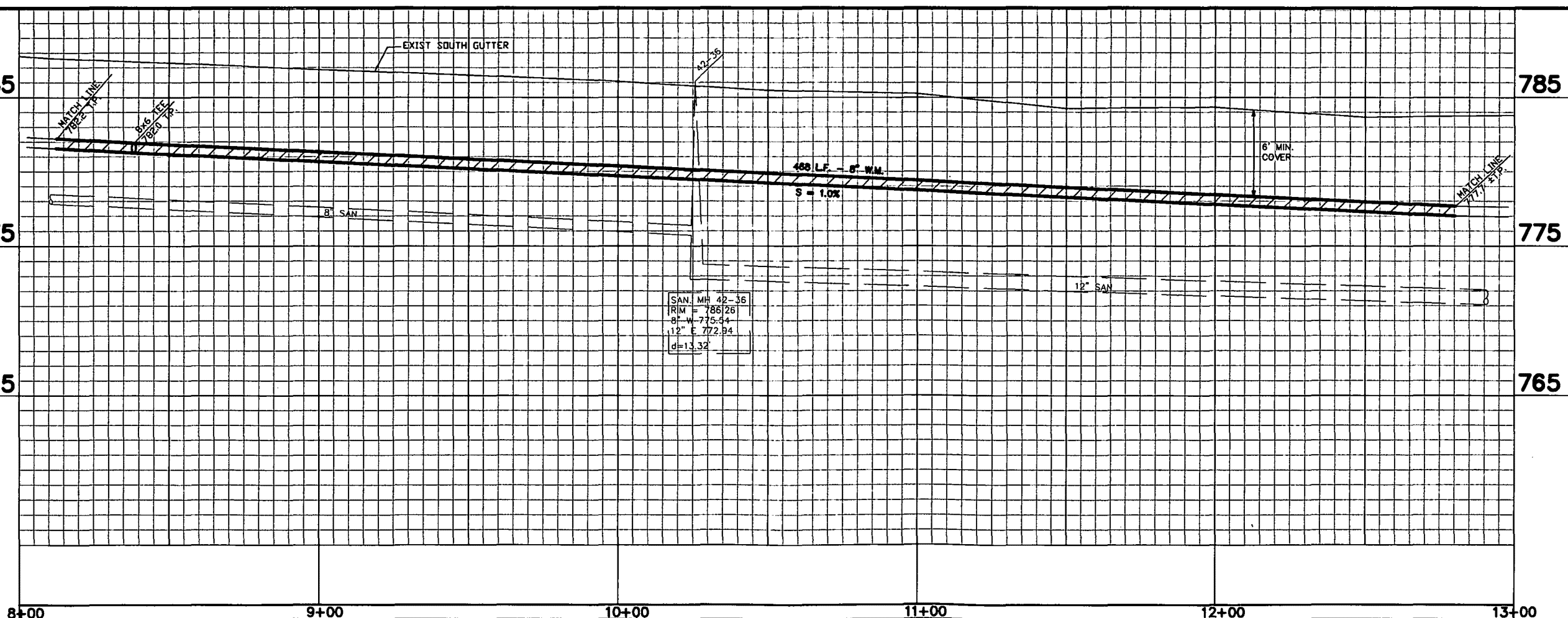
REQ'D FITTINGS & MAT'L'S

- 1 EA. - 8x6 TEE
- 6 EA. - 1" x 3/4" 'C' COUPLING
- 6 EA. - 1" CORPORATION STOP

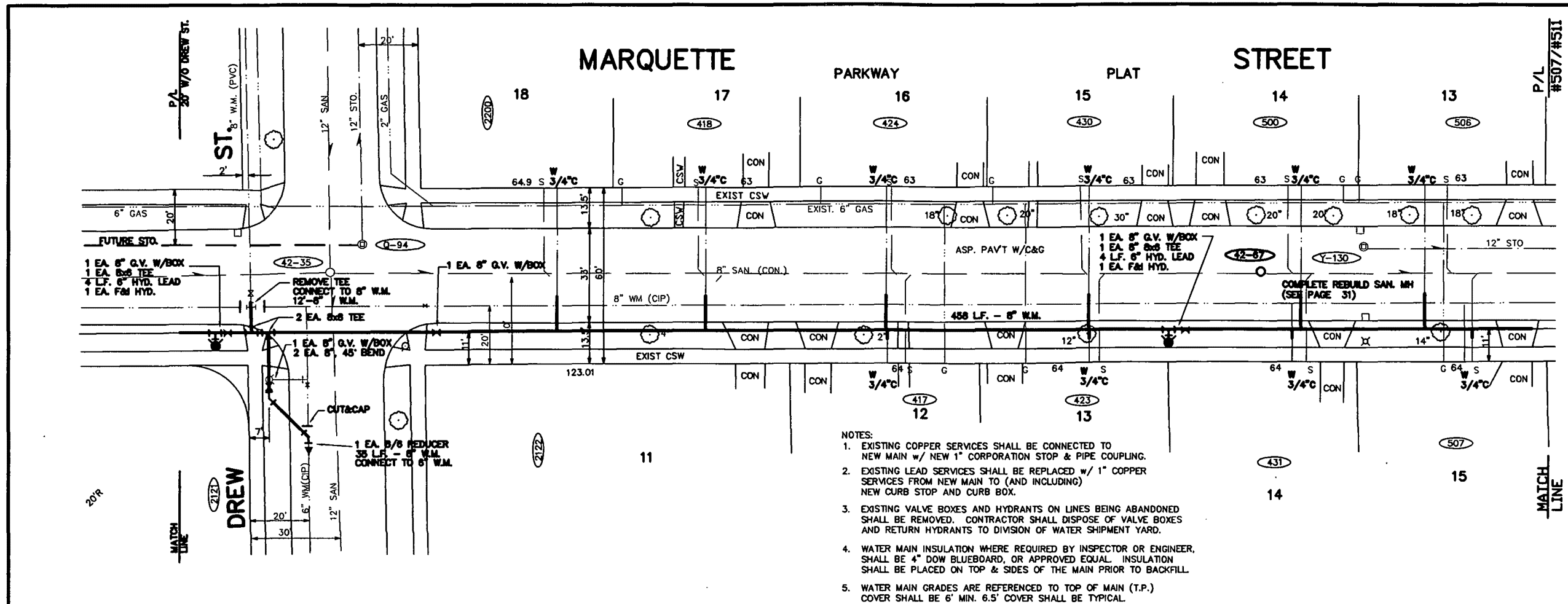
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
MARQUETTE ST
 60' E/O JARCHOW TO DREW ST

DWN: AAE CKD:
 DATE: 09/11/01 APP'D:

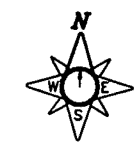
DRG. NO. 1/4 SEC. R 49 PAGE NO.
W-1146 **20**



SAN. MH 42-36
 RIM = 786.26
 8" W = 775.44
 12" E = 772.94
 d = 13.32

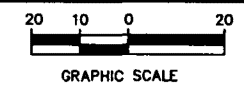


STA 1+00.00 E/L ONEDA STREET
 BENCHMARKS:
 HYDRANT S/W MARQUETTE & DREW 785.64
 HYDRANT S/W MARQUETTE & UNION 780.02



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.

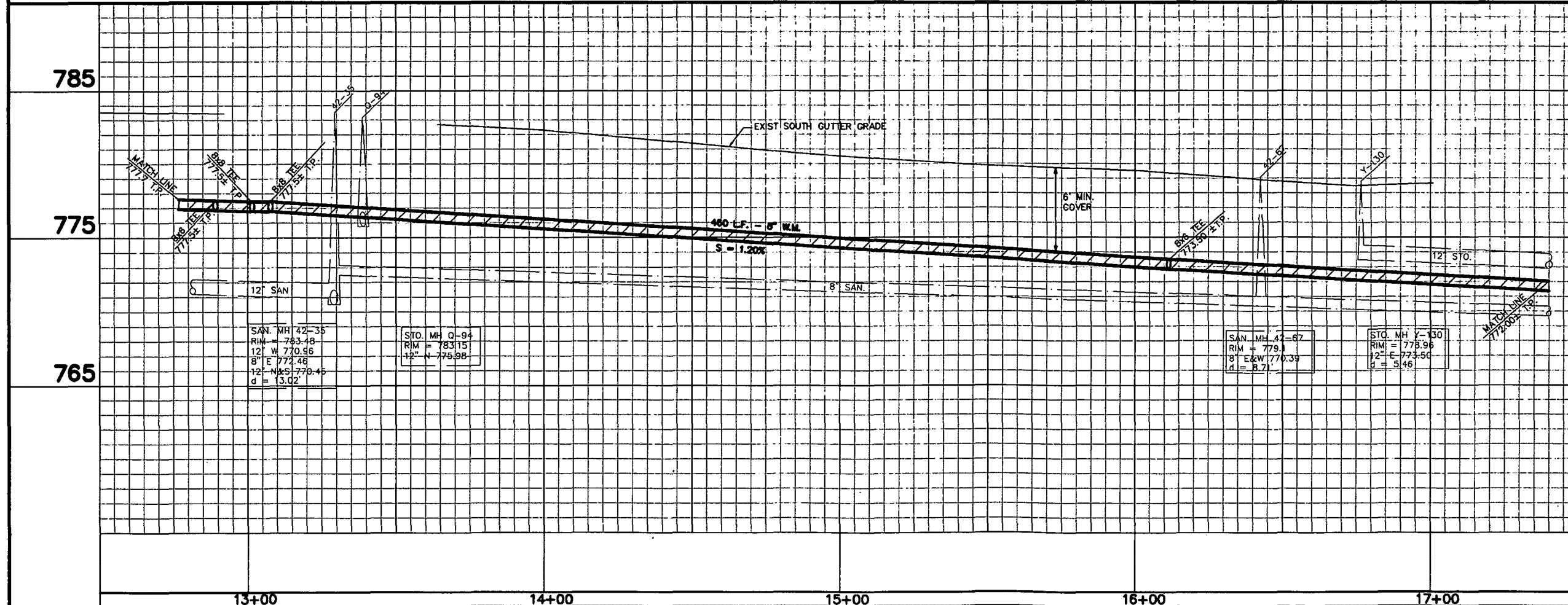
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- WATER MAIN PAY QUANTITIES
- 505 L.F. - F&I 8" WATER MAIN
 - 8 L.F. - F&I 6" HYDRANT LEAD
 - 2 EA. - F&I HYDRANT
 - 2 EA. - F&I 8" 45° BEND
 - 4 EA. - F&I 8" GATE VALVE W/BOX
 - 1 EA. - F&I 8"x6 REDUCER
 - 85 L.F. - F&I 1" SERVICE
 - 10 EA. - SERVICE CONNECTION

- REQ'D FITTINGS & MAT'L'S
- 2 EA. - 8x8 TEE
 - 2 EA. - 8x6 TEE
 - 10 EA. - 1"x3/4" 'C' COUPLING
 - 10 EA. - 1" CORPORATION STOP



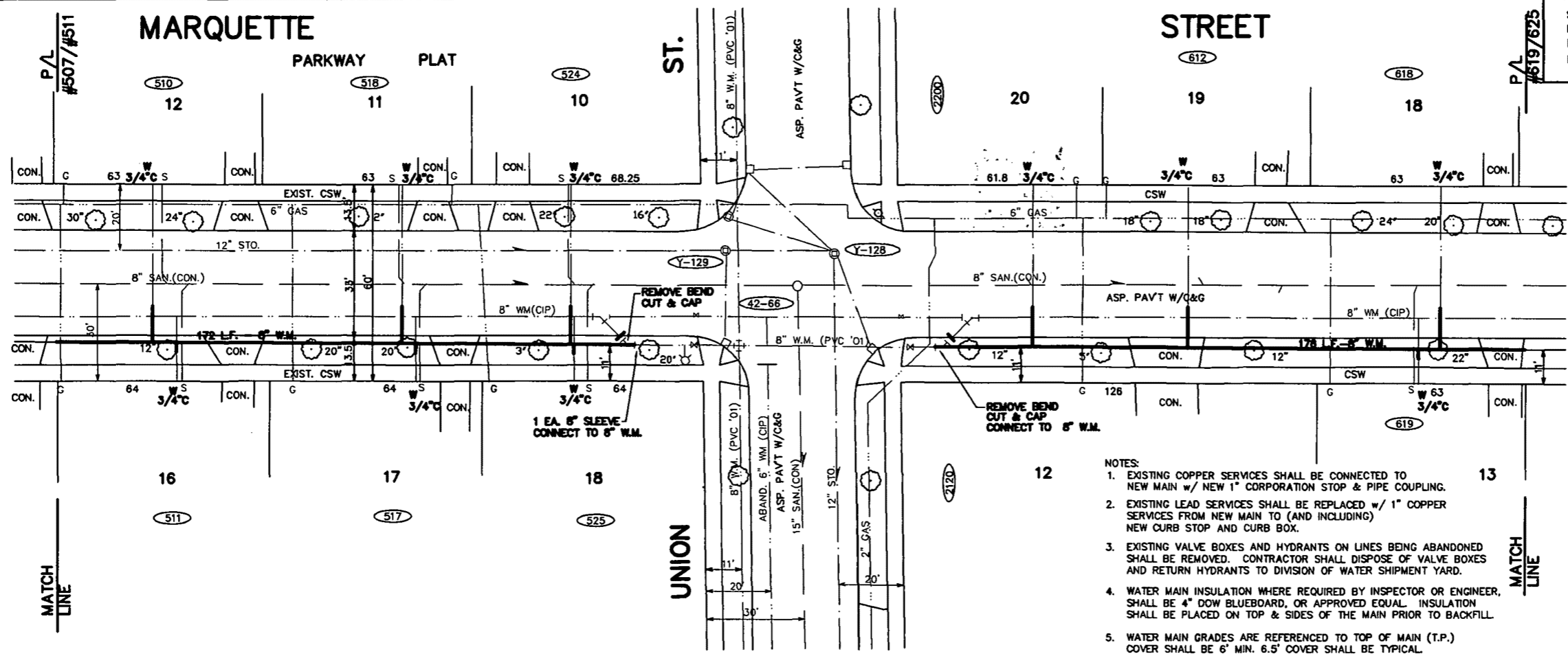
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
MARQUETTE ST
 DREW ST TO 400' EAST

DWG: AAE CKO:
 DATE: 09/11/01 APP'D:

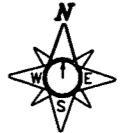
DRG. NO. 1/4 SEC. R 49 PAGE NO.
W-1147 **21**

MARQUETTE

STREET

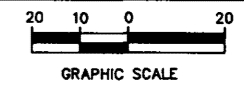


STA 1+00.00 E/L ONEIDA STREET
 BENCHMARKS:
 HYDRANT SW COR. MARQUETTE & UNION 780.02
 HYDRANT SW COR. MARQUETTE & MEADE 778.29



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5" COVER SHALL BE TYPICAL.

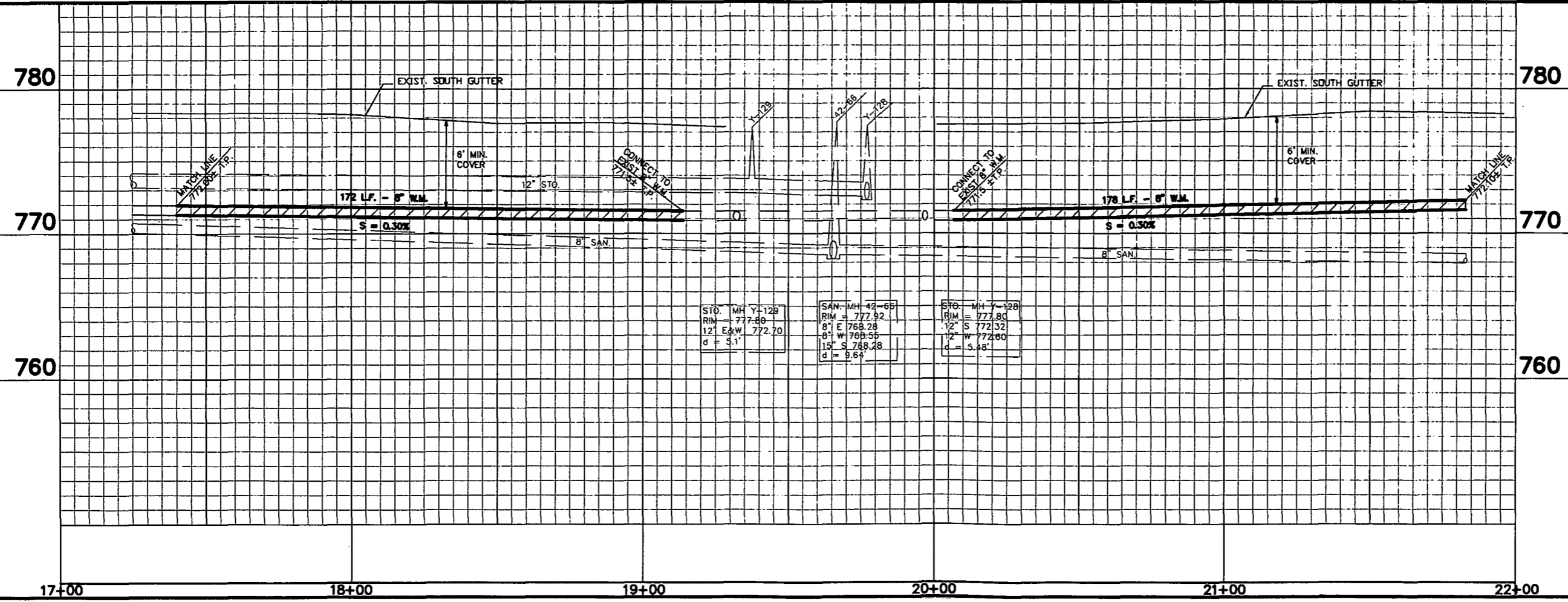
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES
 350 L.F. - F&I 8" WATER MAIN
 80 L.F. - F&I 1" SERVICE
 10 EA. - F&I SERVICE CONNECTION

REQ'D FITTINGS & MAT'L'S
 1 EA. - 8" SLEEVE
 10 EA. - 1"x3/4" 'C' COUPLING
 10 EA. - 1" CORPORATION STOP

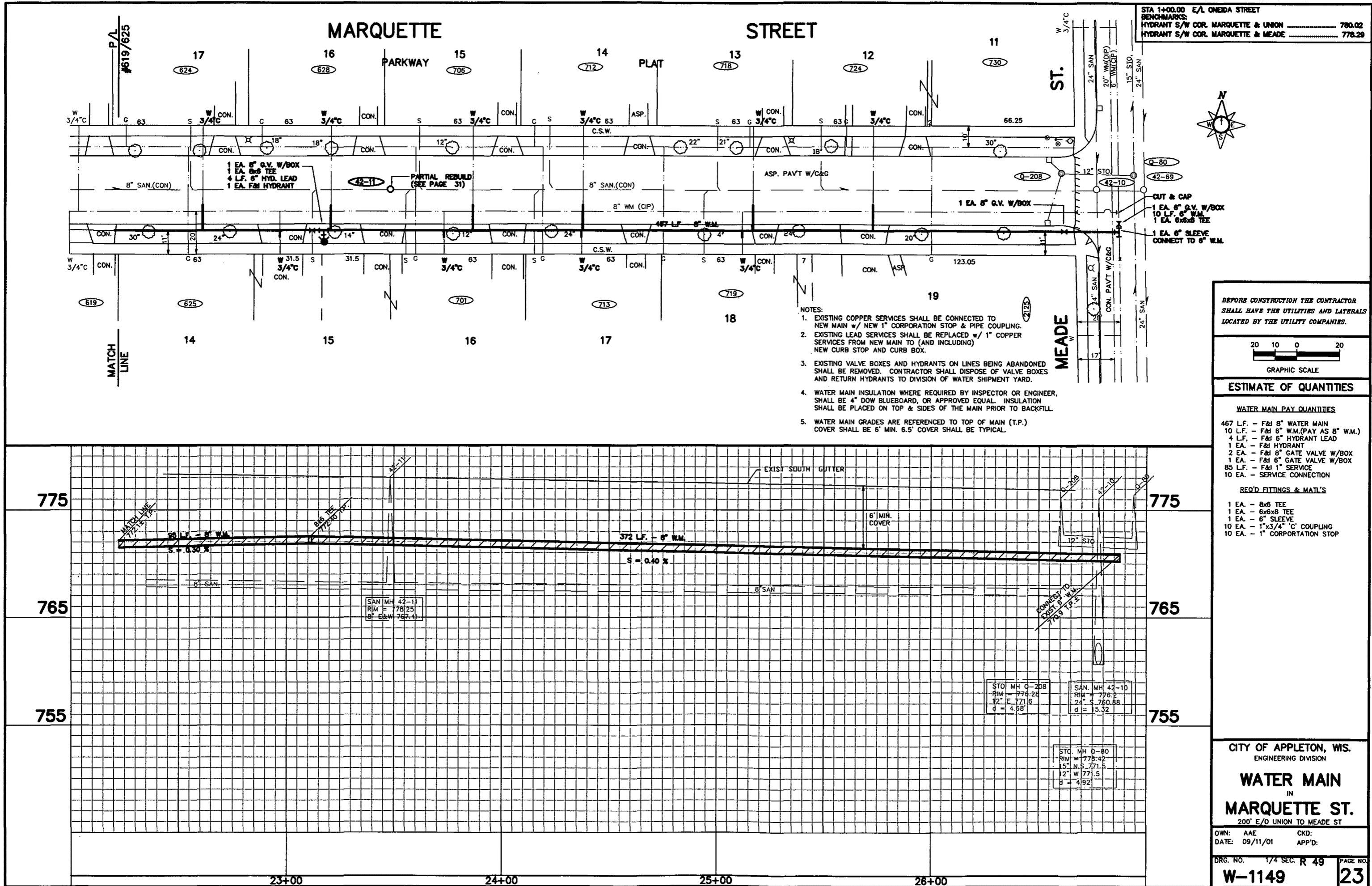


STO. MH Y-128 RIM = 777.80 12" E&W 772.70 d = 3.1'	SAN. MH 42-66 RIM = 777.92 8" E 768.28 8" W 768.55 15" S 768.28 d = 9.64'	STO. MH Y-128 RIM = 777.80 12" S 772.32 12" W 772.80 d = 5.48'
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CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
MARQUETTE ST.
 200' WEST OF UNION ST TO 200' EAST

DWN.: AAE CKD:
 DATE: 09/12/01 APP'D:

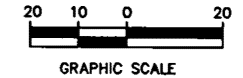
DRG. NO. 1/4 SEC. R 49 PAGE NO.
W-1148 **22**



STA 1+00.00 E/L ONEIDA STREET
 BENCHMARKS:
 HYDRANT S/W COR. MARQUETTE & UNION 780.02
 HYDRANT S/W COR. MARQUETTE & MEADE 778.29

- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
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 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6" MIN. 6.5' COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES

467 L.F. - F&I 8" WATER MAIN
 10 L.F. - F&I 8" W.M.(PAY AS 8" W.M.)
 4 L.F. - F&I 6" HYDRANT LEAD
 1 EA. - F&I HYDRANT
 2 EA. - F&I 8" GATE VALVE W/BOX
 1 EA. - F&I 8" GATE VALVE W/BOX
 85 L.F. - F&I 1" SERVICE
 10 EA. - SERVICE CONNECTION

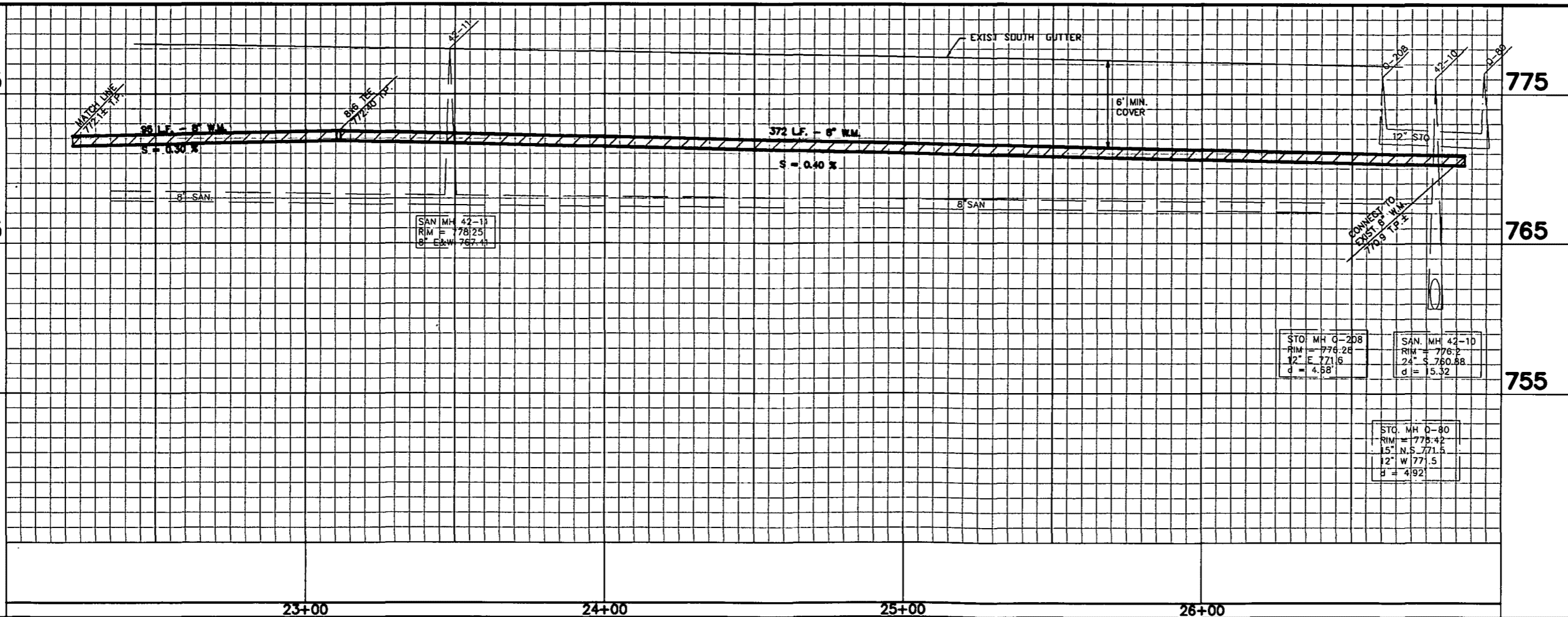
REQ'D FITTINGS & MAT'L'S

1 EA. - 8x8 TEE
 1 EA. - 6x6x8 TEE
 1 EA. - 6" SLEEVE
 10 EA. - 1"x3/4" 'C' COUPLING
 10 EA. - 1" CORPORATION STOP

CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER MAIN
 IN
MARQUETTE ST.
 200' E/O UNION TO MEADE ST

OWN: AAE CKD:
 DATE: 09/11/01 APP'D:

DRG. NO. 1/4 SEC. R 49 PAGE NO.
W-1149 **23**



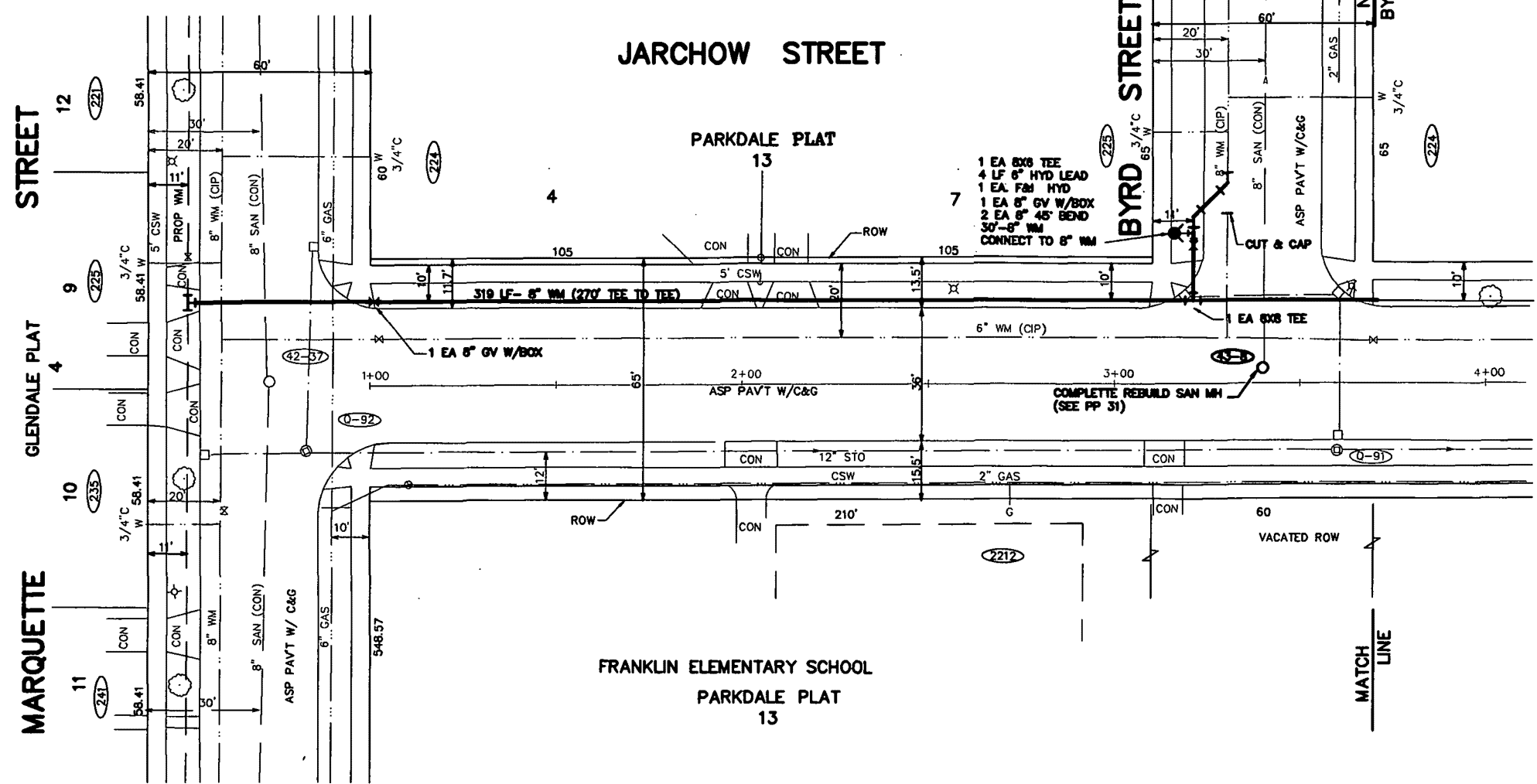
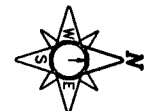
SAN MH 42-11
 RIM = 778.25
 8" E&W 767.45

STO MH 0-208
 RIM = 778.26
 12" E 771.6
 d = 4.58'

SAN MH 42-10
 RIM = 776.2
 24" S 760.68
 d = 15.32'

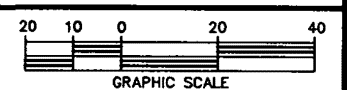
STO MH 0-80
 RIM = 778.42
 15" N.S. 771.5
 12" W 771.5
 d = 4.92'

STA 1+00.00 MARQUETTE STREET
 BENCHMARKS:
 HYDRANT #449 HYDRANT SW COR. LINDBERGH.....789.33



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6' MIN. 6.5' COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES

349 LF	- F&I 8" WATER MAIN
4 LF	- F&I 6" HYDRANT LEAD
1 EA	- F&I HYDRANT
2 EA	- F&I 8" GATE VALVE W/BOX
2 EA	- F&I 8" 45' BEND

REQ'D FITTINGS & MAT'L'S

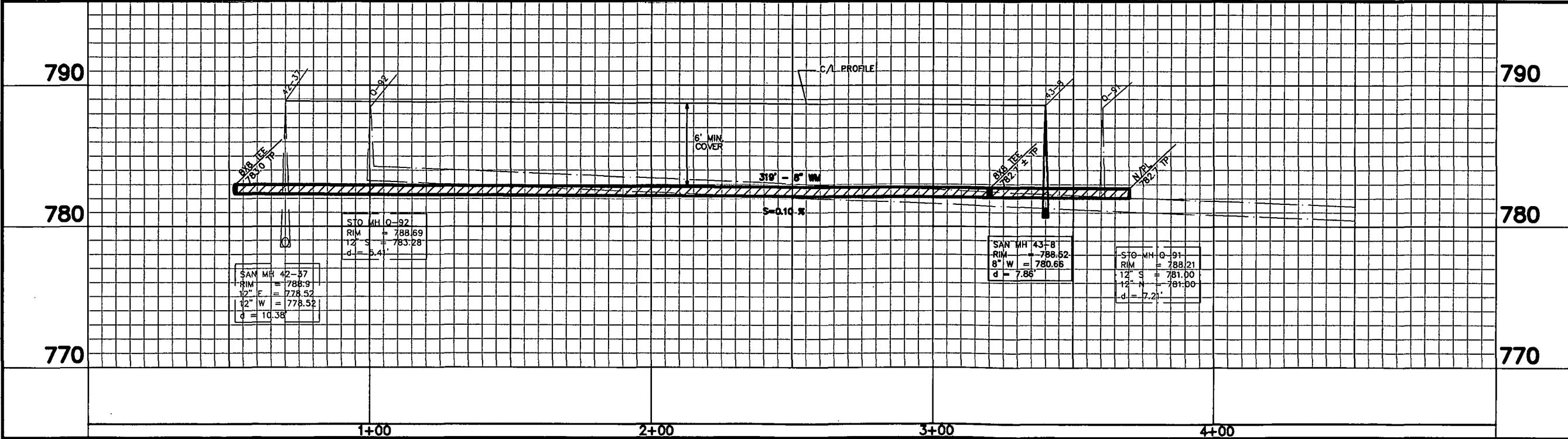
1 EA	- 8x8 TEE
1 EA	- 8x6 TEE

SANITARY	LATERALS	GAS	TELEPHONE
STORM	WATER	ELECTRIC	REVISIONS

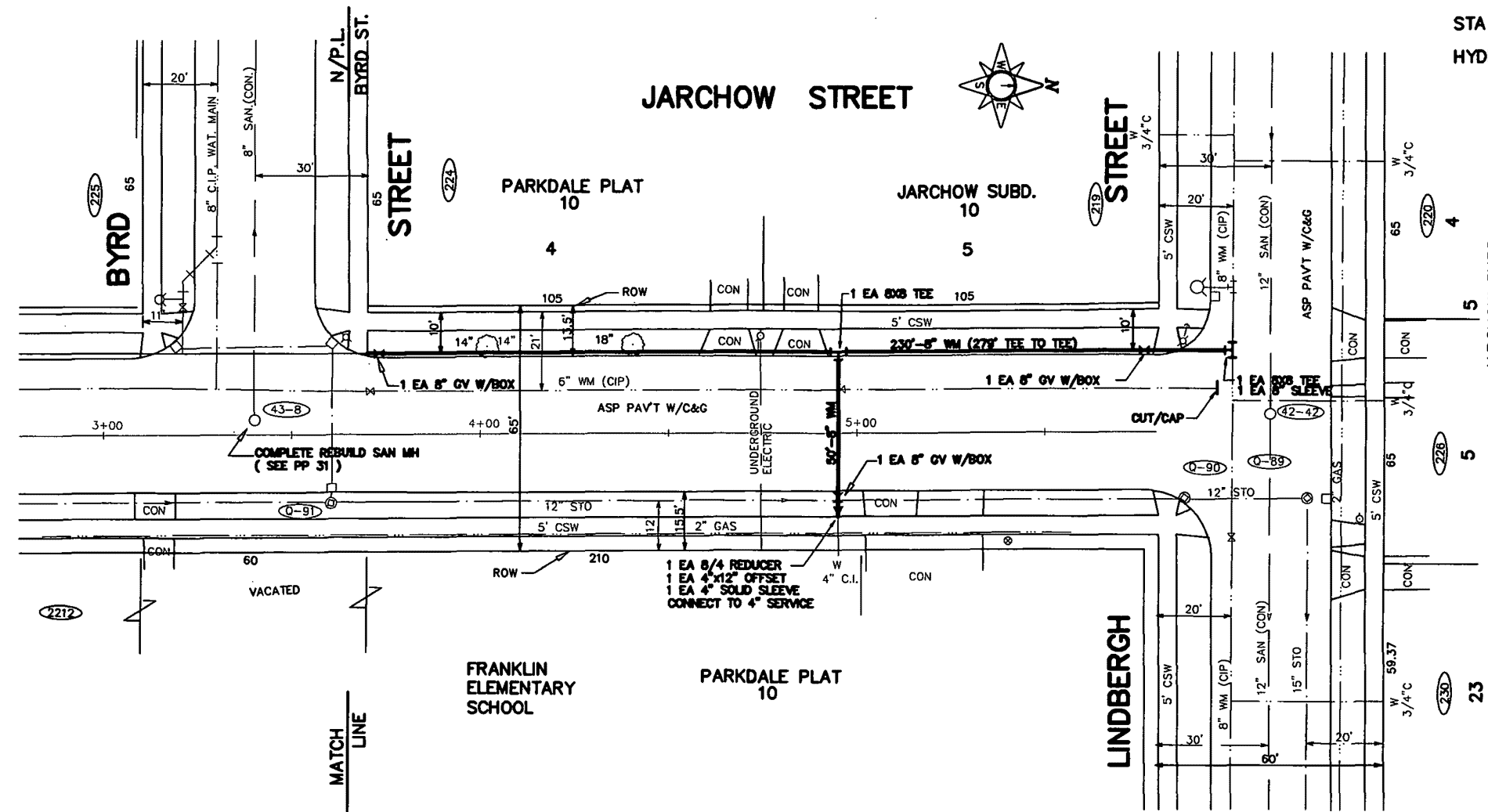
CITY OF APPLETON, WS.
 ENGINEERING DIVISION
WATER (RELAY)
 IN
JARCHOW ST.
 MARQUETTE ST. TO BYRD ST.

DWN: KMM CKD:
 DATE: 12/22/99 APP'D:

DRG. NO. 1/4 SEC. R49 PAGE NO.
W-1150 **24**

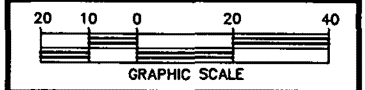


STA 1+00.00 MARQUETTE STREET
 BENCHMARKS:
 HYDRANT #449 HYDRANT SW COR. LINDBERGH.....789.33



- NOTES:
- EXISTING COPPER SERVICES SHALL BE CONNECTED TO NEW MAIN w/ NEW 1" CORPORATION STOP & PIPE COUPLING.
 - EXISTING LEAD SERVICES SHALL BE REPLACED w/ 1" COPPER SERVICES FROM NEW MAIN TO (AND INCLUDING) NEW CURB STOP AND CURB BOX.
 - EXISTING VALVE BOXES AND HYDRANTS ON LINES BEING ABANDONED SHALL BE REMOVED. CONTRACTOR SHALL DISPOSE OF VALVE BOXES AND RETURN HYDRANTS TO DIVISION OF WATER SHIPMENT YARD.
 - WATER MAIN INSULATION WHERE REQUIRED BY INSPECTOR OR ENGINEER, SHALL BE 4" DOW BLUEBOARD, OR APPROVED EQUAL. INSULATION SHALL BE PLACED ON TOP & SIDES OF THE MAIN PRIOR TO BACKFILL.
 - WATER MAIN GRADES ARE REFERENCED TO TOP OF MAIN (T.P.) COVER SHALL BE 6' MIN. 6.5' COVER SHALL BE TYPICAL.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

WATER MAIN PAY QUANTITIES
 280 L.F. - 8" WATER MAIN
 3 EA. - 8" GATE VALVE W/BOX
 1 EA. - 4"x12" OFFSET
 (PAY AS 2 EA. 8" BEND)

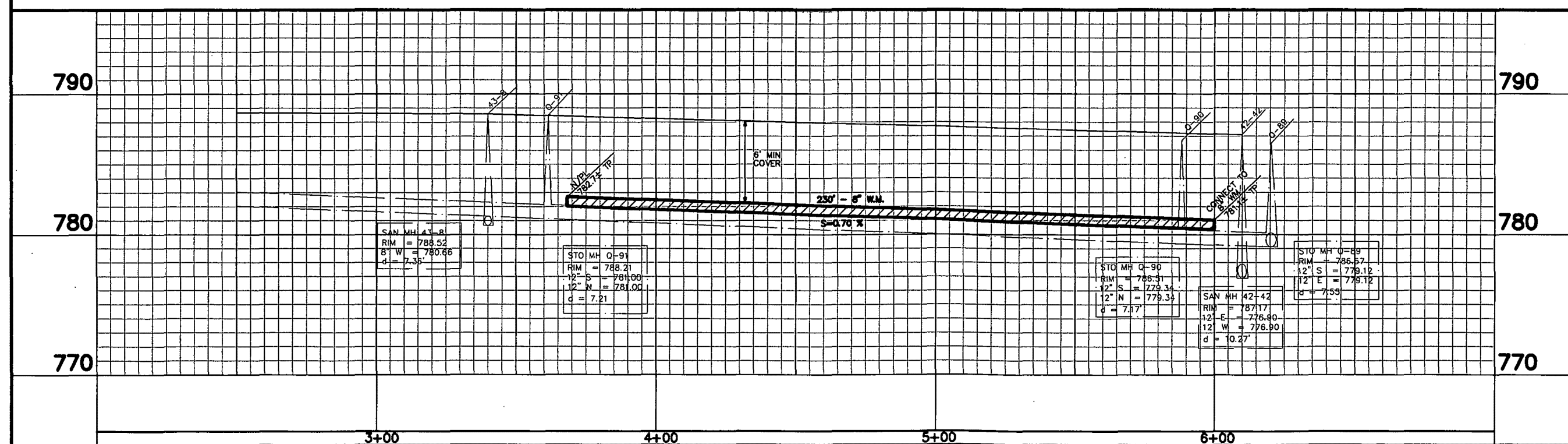
REQ'D FITTINGS & MAT'L'S
 2 EA. - 8X8 TEE
 1 EA. - 8" CUT-IN SLEEVE
 1 EA. - 4" SOLID SLEEVE
 1 EA. - 8/4 REDUCER

SANITARY	LATERALS	GAS	TELEPHONE
STORM	WATER	ELECTRIC	REVISIONS

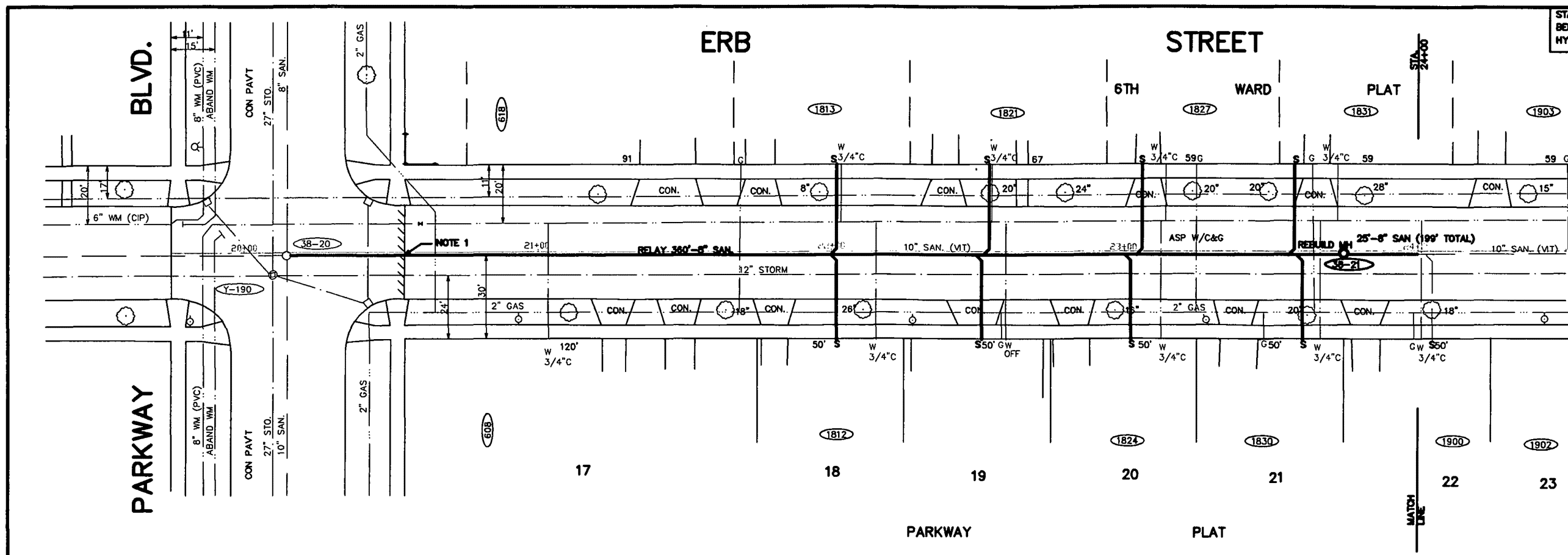
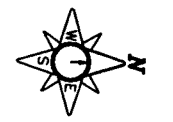
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
WATER (RELAY)
 IN
JARCHOW ST.
 BYRD ST TO LINDBERGH ST.

DWN: KMM CKD:
 DATE: 12/22/99 APP'D:

DRG. NO. 1/4 SEC. R49 PAGE NO.
W-1151 **25**

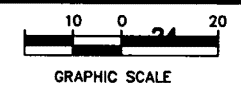


STA 1+00.00 C/L WISCONSIN AVENUE
 BENCHMARKS:
 HYDRANT S/W COR. PARKWAY & ERB 806.75



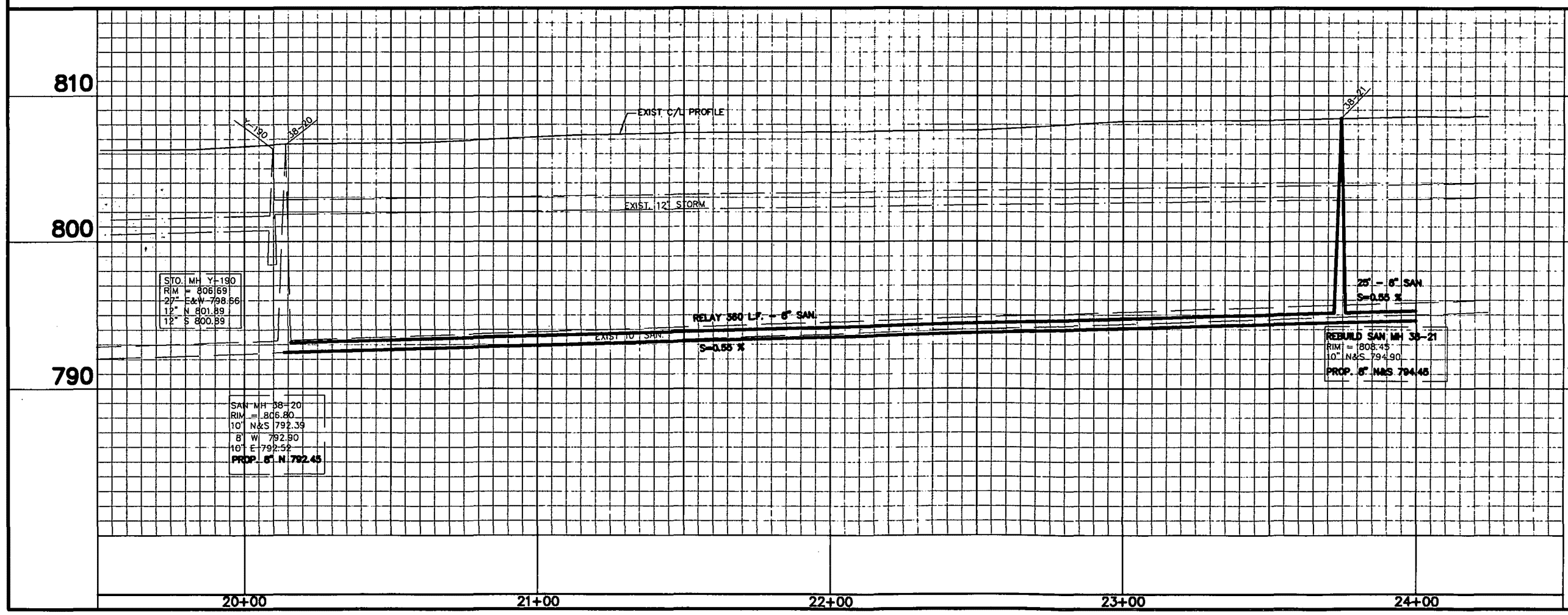
NOTES:
 1.) EDGE OF CONCRETE PAVEMENT. DO NOT CUT INTO CONCRETE PAVEMENT. SLIP NEW 8" INTO EXISTING 10" PIPE. GROUT AROUND THE 8" PIPE. COST TO FURNISH AND INSTALL GROUT SHALL BE INCIDENTAL TO PIPE.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- 385 LF - 8" SANITARY RELAY
- 8 EA - RECONNECT SAN. LATERAL
- 270 LF - SANITARY LATERAL RELAY
- 14 VF - REBUILD SANITARY MANHOLE
- 1 EA - F&I SANITARY MH FRAME/LID



S/O. MH Y1-190
 RIM = 806.69
 27" S&N 798.56
 12" N 801.89
 12" S 800.89

SAN MH 38-20
 RIM = 806.80
 10" N&S 792.39
 8" W 792.90
 10" E 792.52
 PROP. 8" N 792.45

REBUILD SAN MH 38-21
 RIM = 808.45
 10" N&S 794.90
 PROP. 8" N&S 794.48

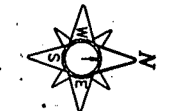
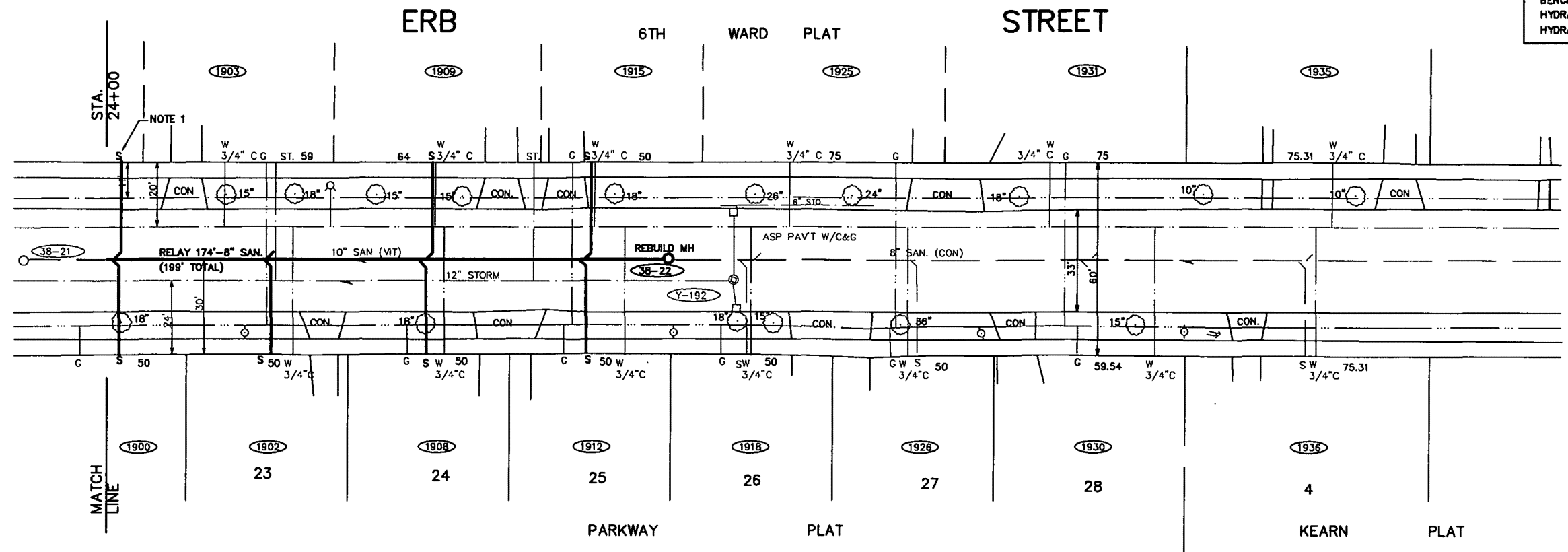
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

SANITARY SEWER
 IN
ERB STREET
 PARKWAY BLVD TO 400' NORTH

DATE: AAE CKD:
 DATE: 11/06/01 APP'D:

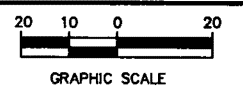
DRG. NO. 1/4 SEC. Q50 PAGE NO.
SA-1697 26

STA 1+00.00 C/L WISCONSIN AVENUE
 BENCHMARKS:
 HYDRANT S/W COR. ERB & PARKWAY 809.75
 HYDRANT W/S ERB STREET HOUSE NO 1627 807.88



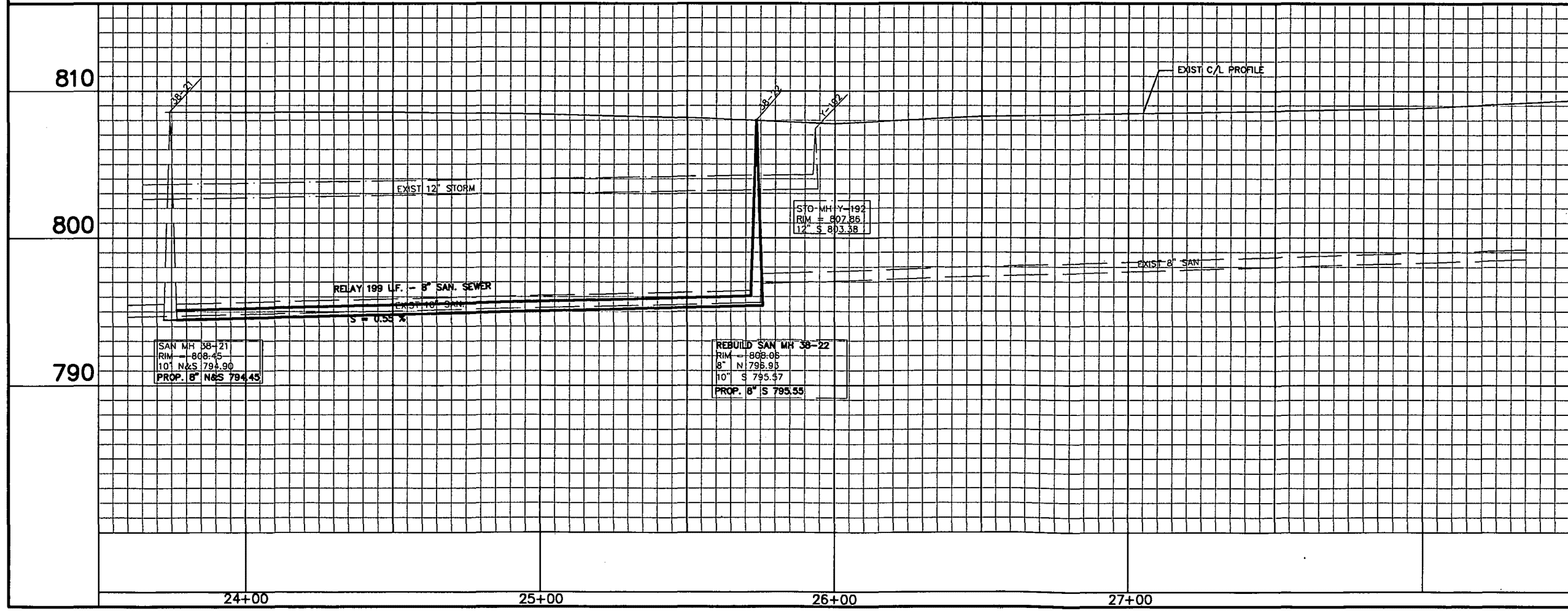
NOTES:
 1.) LOCATION OF SANITARY LATERAL TO HOUSE 1903 IS APPROXIMATE.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.

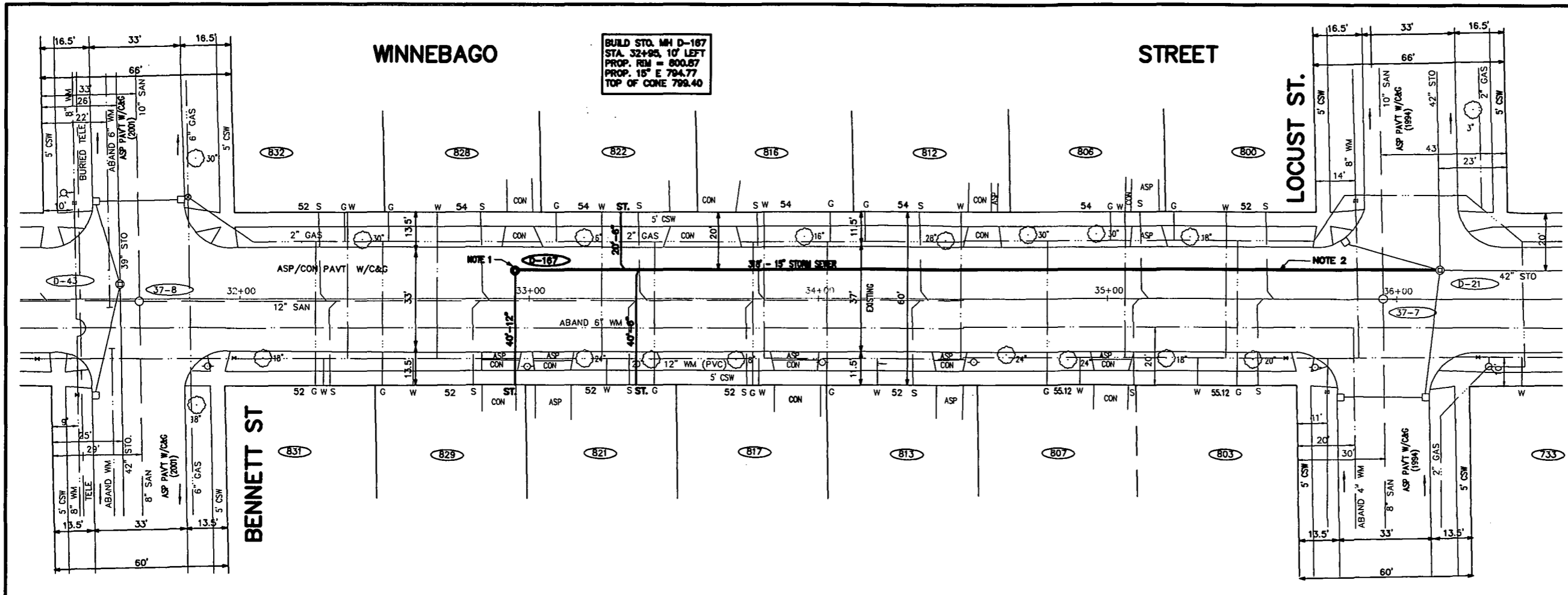


ESTIMATE OF QUANTITIES

174 LF	-	F&J 8" SANITARY RELAY
7 EA	-	F&J RECONNECT SAN LATERAL
210 LF	-	F&J SANITARY LATERAL RELAY
13 VF	-	F&J REBUILD SANITARY MANHOLE
1 EA	-	F&J SAN MANHOLE FRAME/LID



CITY OF APPLETON, WIS.
 ENGINEERING DIVISION
SANITARY SEWER
 IN
ERB STREET
 400' N/O PARKWAY BLVD TO 700' NORTH
 DATE: JKK CKD:
 DATE: 2/5/02 APP'D:
 DRG. NO. 1/4 SEC. Q 50 PAGE NO.
SA-1698 **27**

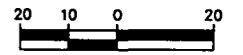


STA 1+00.00 E/L BADGER AVENUE
 BENCHMARKS:
 HYDRANT #153 SW COR STORY ST. 808.36
 HYDRANT #152 NW COR BENNETT ST. 808.90
 HYDRANT #2574 SE COR LOCUST ST. 802.37



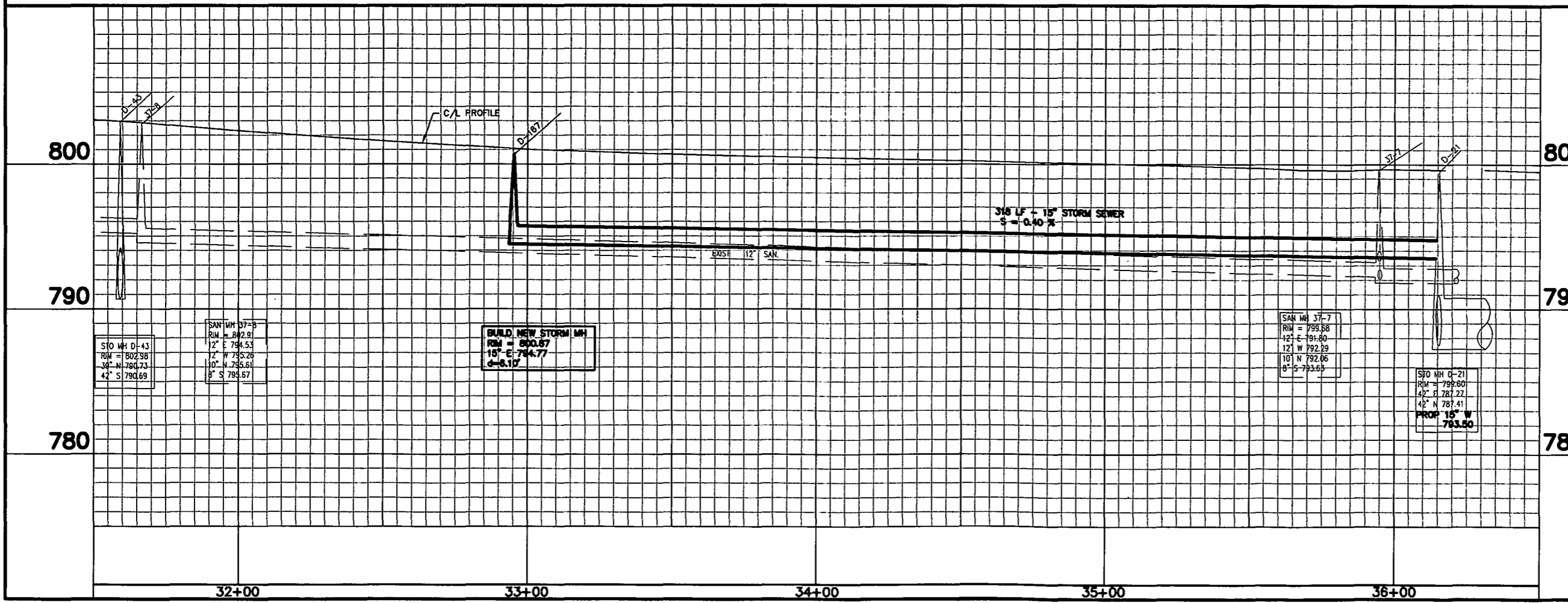
- NOTES**
- 1.) WINNEBAGO STREET WILL BE COMPLETELY RECONSTRUCTED IN 2002. SET CASTING AT EXISTING ASPHALT ELEVATION. SET TOP OF CONE ELEVATION AS SPECIFIED TO ALLOW FOR ADJUSTMENT IN ASPHALT GRADE.
 - 2.) IT IS ANTICIPATED THAT THE NEW STORM SEWER WILL BE IN CONFLICT WITH THE SANITARY LATERALS. QUANTITIES ARE LISTED FOR RECONNECTING AND RELAYING SANITARY LATERALS IF NEEDED.
 - 3.) BACKFILL SHALL BE FLOWABLE FILL TO 15" BELOW EXISTING ASPHALT SURFACE. SEE SPECIAL PROVISIONS.

BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

- 318 LF - F&I 15" STORM SEWER
- 40 LF - F&I 12" STORM SEWER
- 6 VF - F&I STORM MANHOLE
- 1 EA - F&I STORM MH FRAME/LID
- 60 LF - F&I 6" STORM LATERAL
- 75 LF - F&I RELAY SAN LATERAL
- 5 EA - F&I RECONNECT SAN LATERAL



STO MH D-43
 RIM = 802.98
 12" E 794.53
 12" W 792.29
 10" N 792.66
 8" S 790.69

SAN MH 37-B
 RIM = 802.91
 12" E 794.53
 12" W 792.29
 10" N 792.66
 8" S 790.67

BUILD NEW STORM MH
 RIM = 800.87
 15" E 794.77
 8" S 793.67

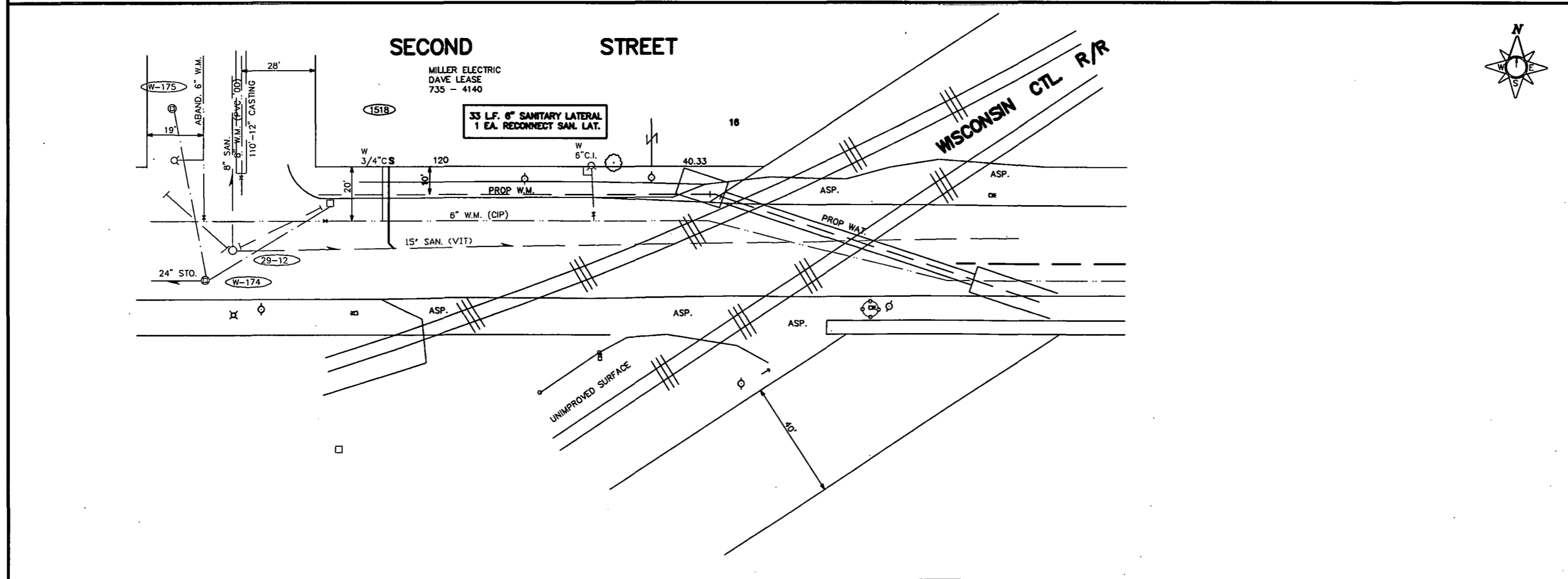
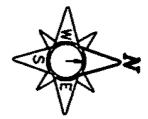
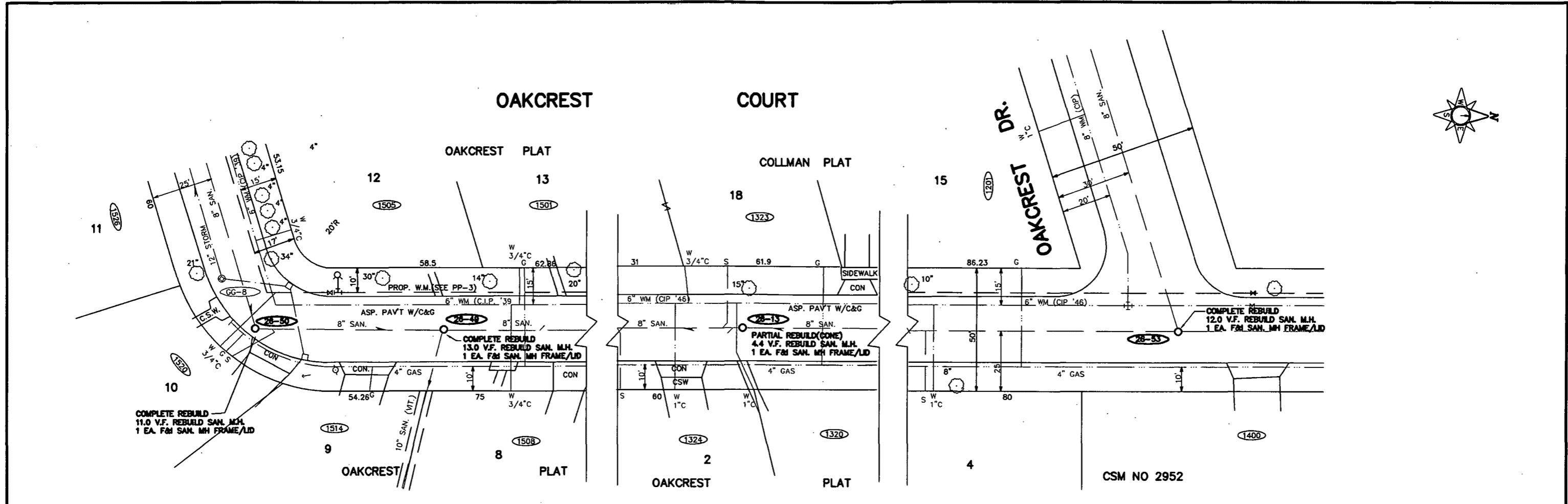
SAN MH 37-7
 RIM = 799.88
 12" E 791.80
 12" W 792.29
 10" N 792.66
 8" S 793.65

STO MH D-21
 RIM = 799.60
 42" E 787.27
 42" N 787.41
 PROP 15" W
 793.50

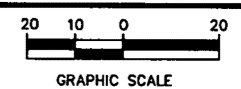
CITY OF APPLETON, WIS.
 ENGINEERING DIVISION

**STORM SEWER
 IN
 WINNEBAGO ST.
 BENNETT ST TO LOCUST ST**

DWN: DMH CKD:
 DATE: 12/6/01 APP'D:



BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

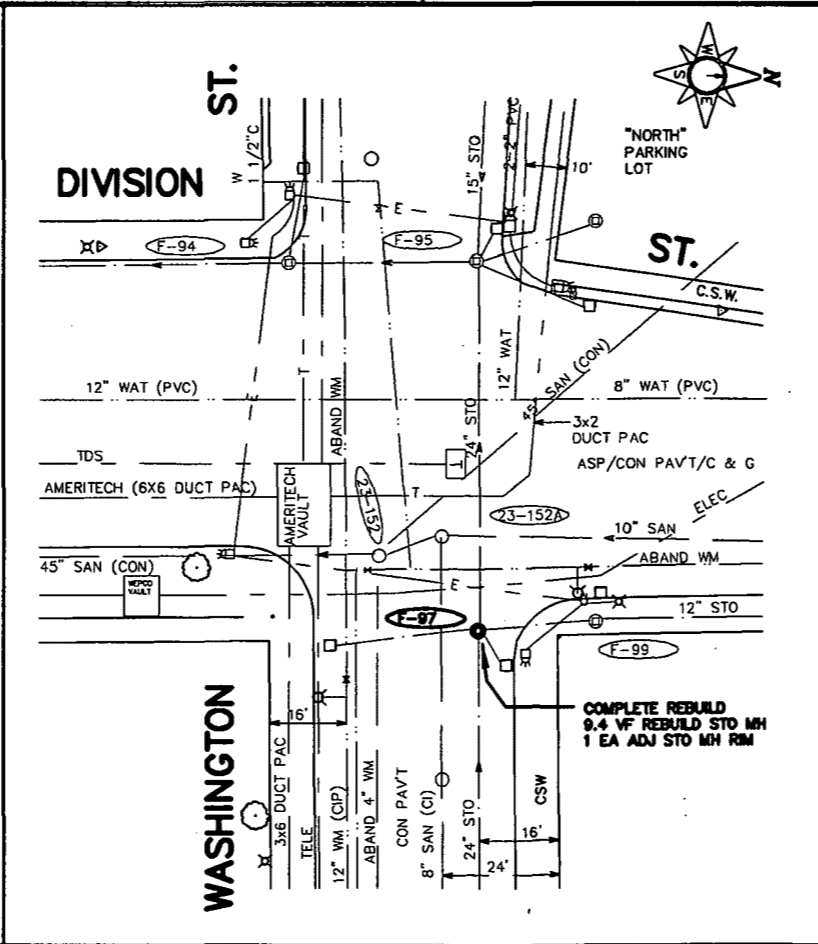
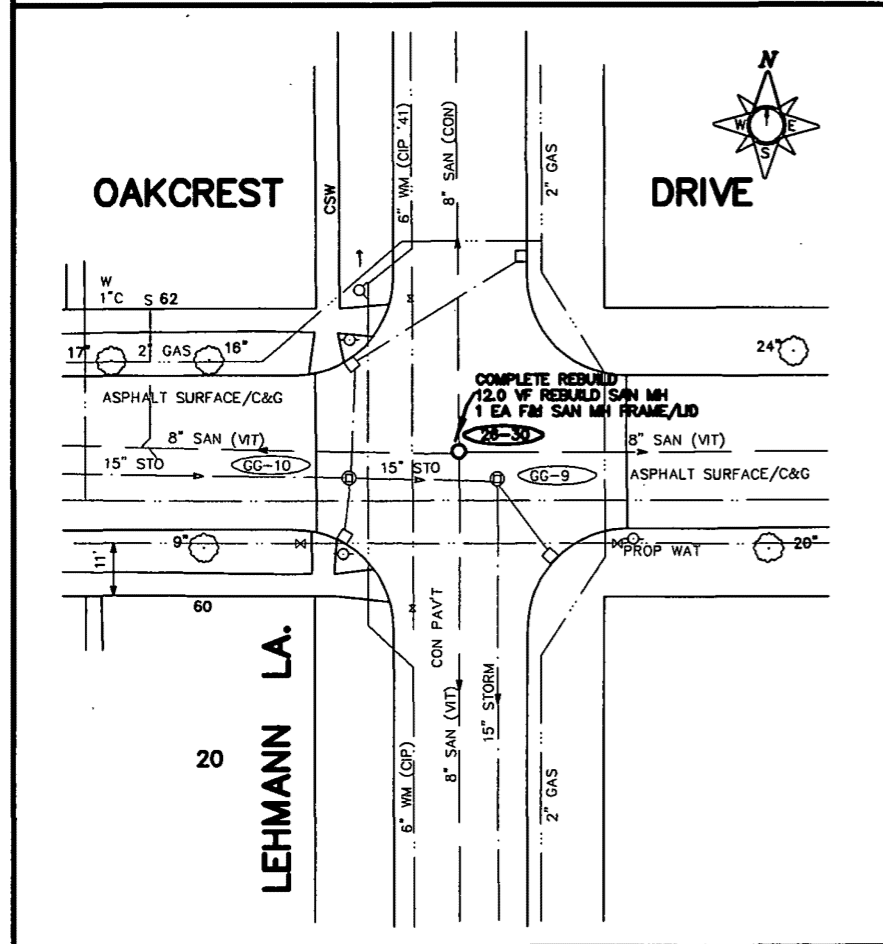
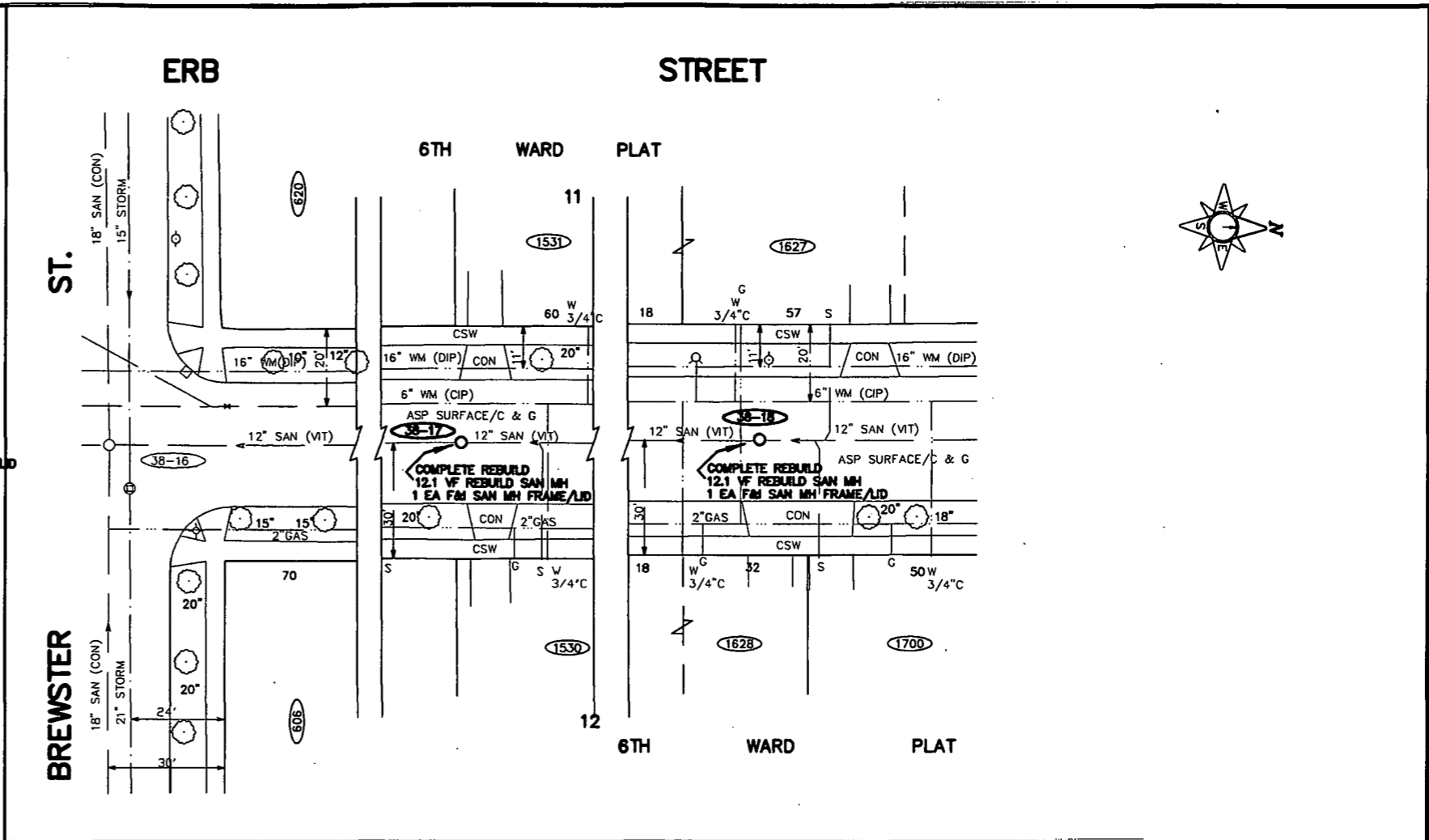
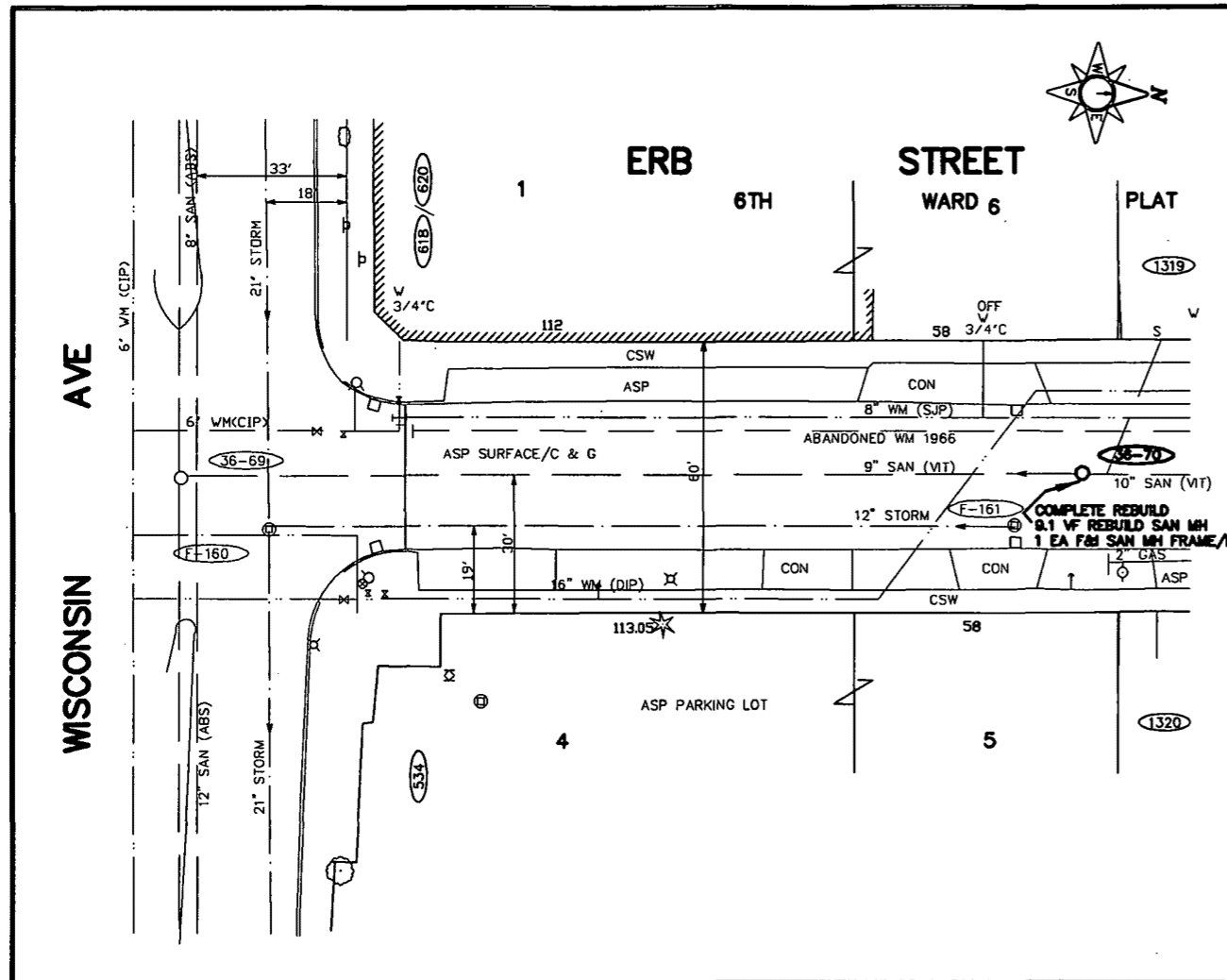
SEWER PAY QUANTITIES

40.4 V.F.	- REBUILD SAN. MANHOLE
4 EA.	- F&I SAN. MH FRAME/LID
33 LF.	- 6" SAN. LATERAL RECONSTRUCTION
1 EA.	- SANITARY LATERAL RECONNECT

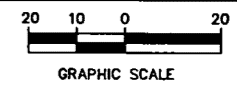
CITY OF APPLETON, WIS.
ENGINEERING DIVISION
SEWER REPAIRS
IN
OAKCREST COURT
SECOND STREET

DWN: AAE CKD:
DATE: 12/11/01 APP'D:

DRG. NO. 1/4 SEC. P 54 PAGE NO.
SA-1699 0 53 29



BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



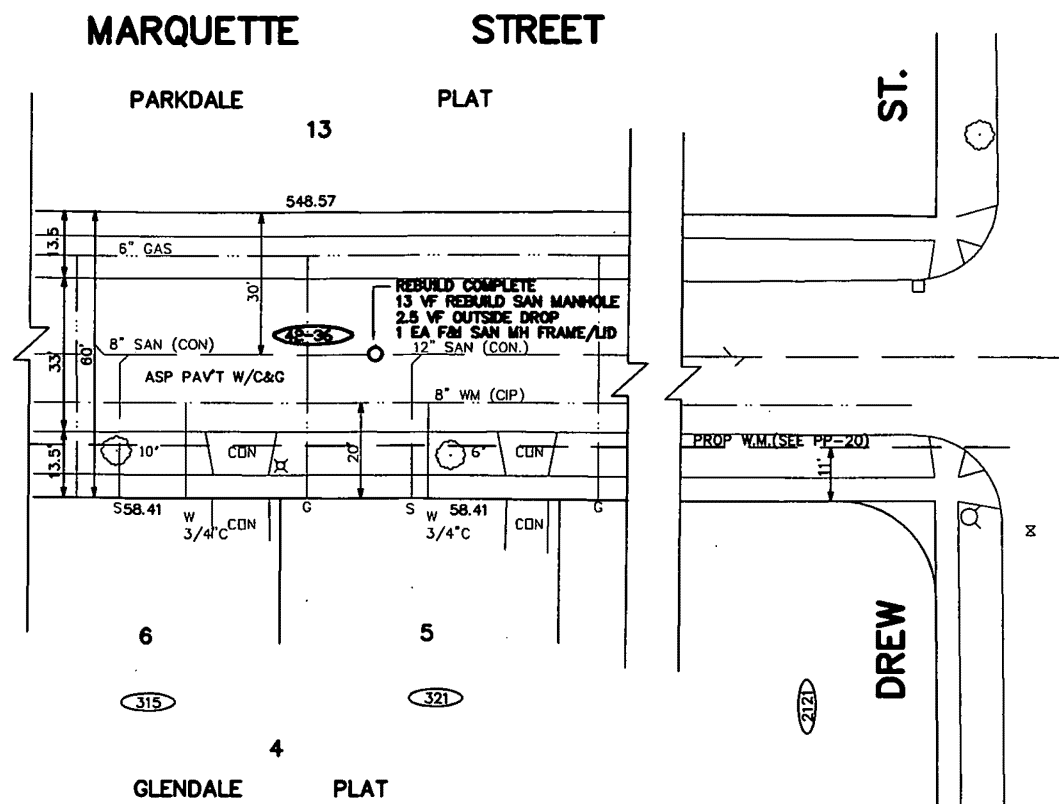
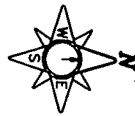
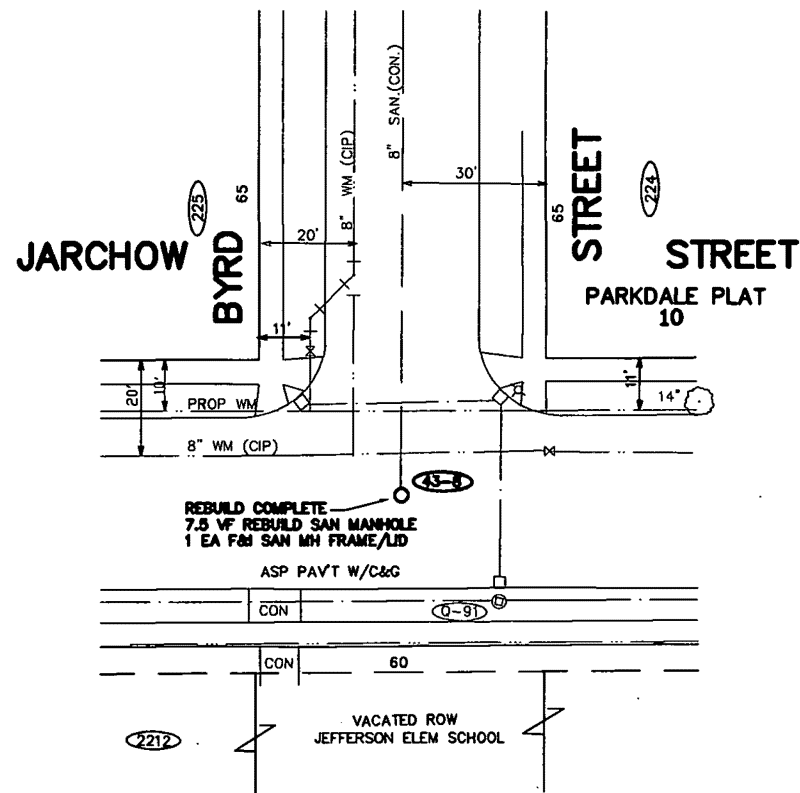
ESTIMATE OF QUANTITIES

SEWER QUANTITIES	
47.0 VF	- REBUILD SANITARY MANHOLE
4 EA	- F&I SAN MH FRAME/LID
9.4 VF	- REBUILD STORM MANHOLE
1 EA	- ADJ STORM RIM

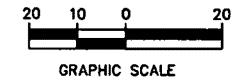
CITY OF APPLETON, WS.
ENGINEERING DIVISION
SEWER REPAIRS
IN
ERB STREET
DIVISION & WASHINGTON
OAKCREST DR & LEHMANN LA

DWN: AAE CKD:
DATE: 12/12/01 APP'D:

DRG. NO. 1/4 SEC. P54 PAGE NO.
SA-1700 Q52 Q50 **30**



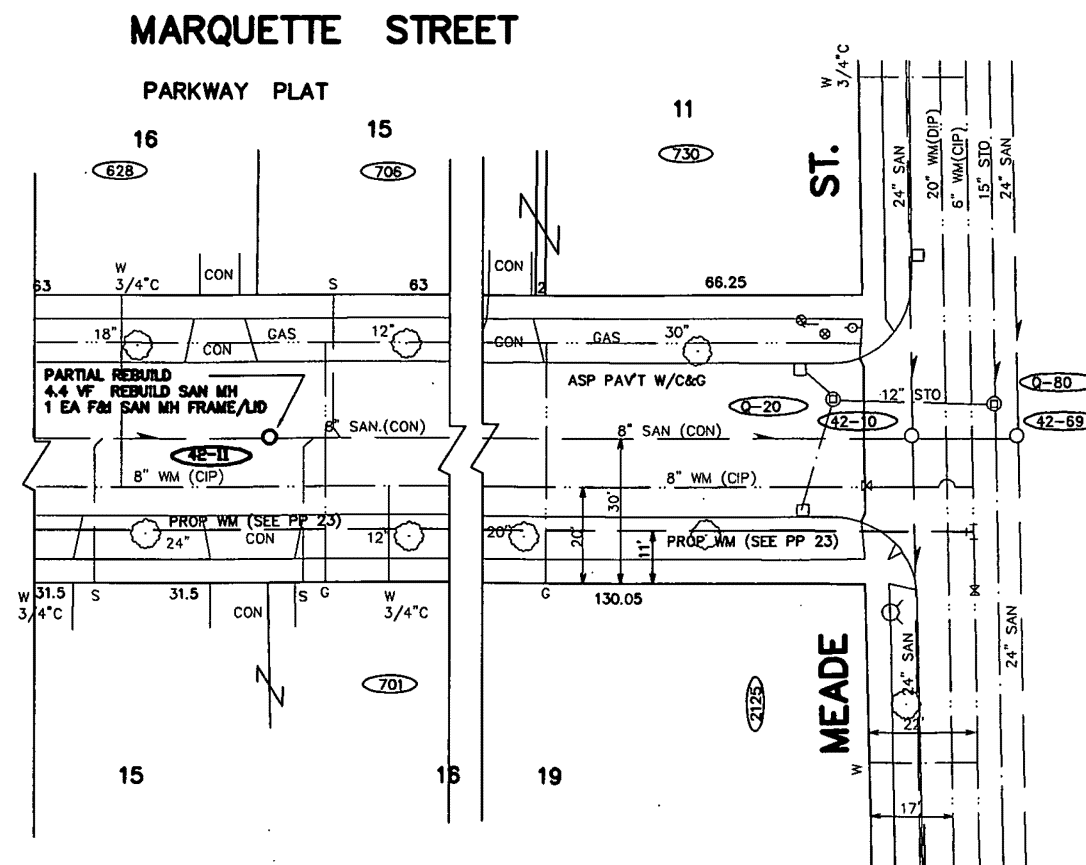
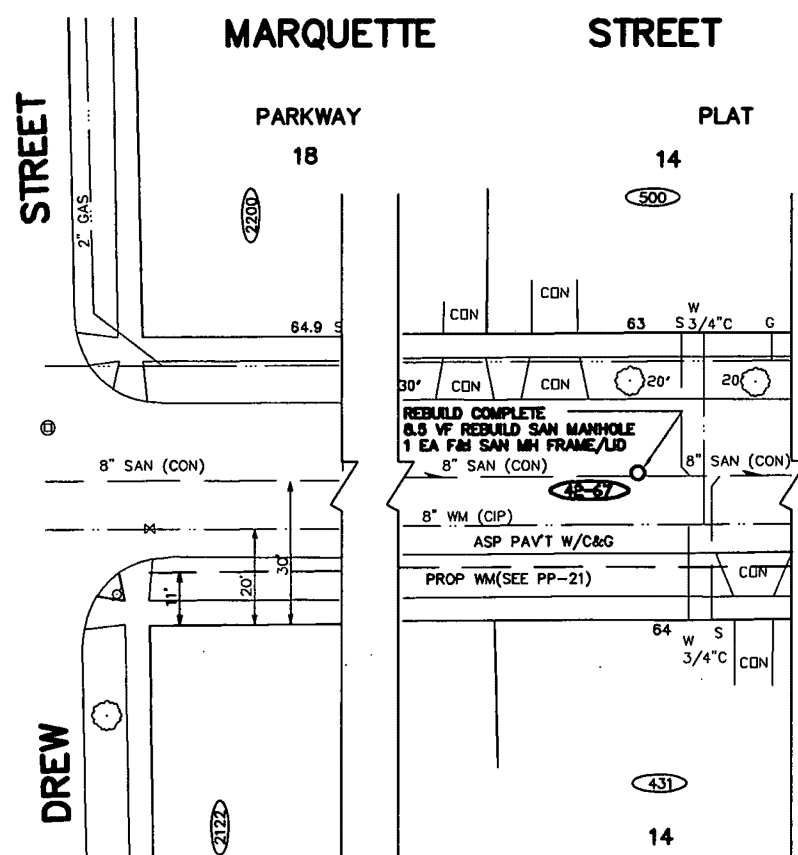
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

SEWER PAY QUANTITIES

- 33.4 VF - REBUILD SAN MANHOLE
- 2.5 VF - OUTSIDE DROP (SAN)
- 4 EA - F&I SAN MH FRAME/LID



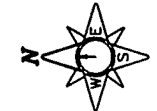
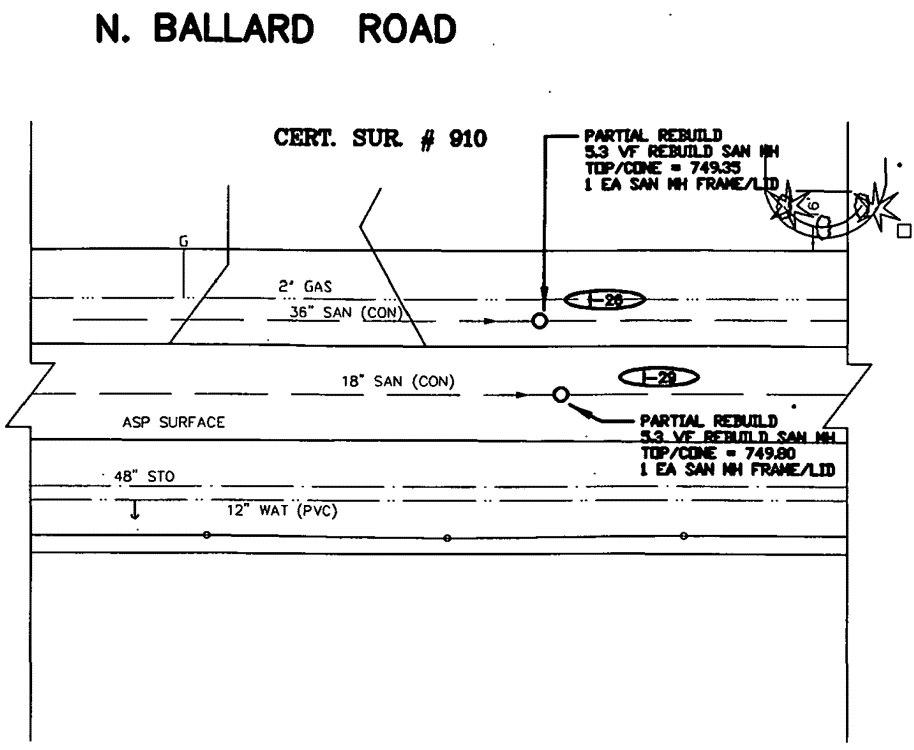
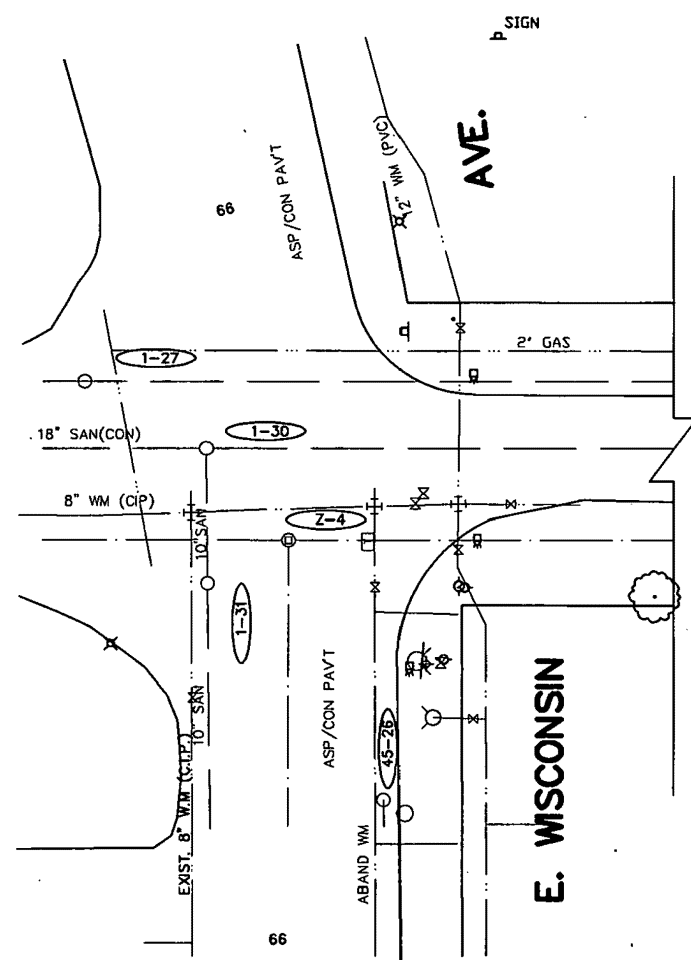
CITY OF APPLETON, WIS.
ENGINEERING DIVISION
SAN SEWER SPOT REPAIR
JARCHOW ST AND BYRD ST INTER
MARQUETTE W/O DREW TO MEADE

DWN: AAE CKD:
DATE: 12/11/01 APP'D:

DRG. NO. 174 SEC. Q 49 PAGE NO.
SA-1701 **31**

BENCHMARKS:

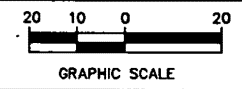
HYDRANT #413 SW COR BALLARD & WISCONSIN	756.53
HYDRANT #2581 W/S BALLARD 400' S/O WISCONSIN	753.96
HYDRANT #2582 W/S BALLARD 150' S/O HAMMOND	751.23
HYDRANT #2583 SE COR BALLARD & HAMMOND	753.18



NOTES:

- 1.) CONTRACTOR SHALL REBUILD ALL STRUCTURES AS NOTED. NEW FRAME/LIDS SHALL BE SET ON MORTAR BED TO EXISTING ROAD GRADE. THE RISER SECTION BETWEEN FRAME/LID & TOP/CONE SHALL BE CONSTRUCTED W/PRECAST 12" RISER SECTION, PER SECTION 5.12.2.f. OF THE SEWER SPECIFICATIONS.
- 2.) CONTRACTOR SHALL F&I 12" STORM AT MH Z-3 AT SPECIFIED INVERT. FITTINGS SHALL BE USED TO CONSTRUCT A RISER SECTION TO MATCH EXISTING 8" CMP END OF LEAD, IE = 748.40. COST OF FITTINGS & RIPRAP INCLUDED IN THE UNIT PRICE FOR 12" STORM.

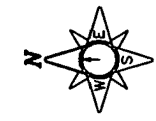
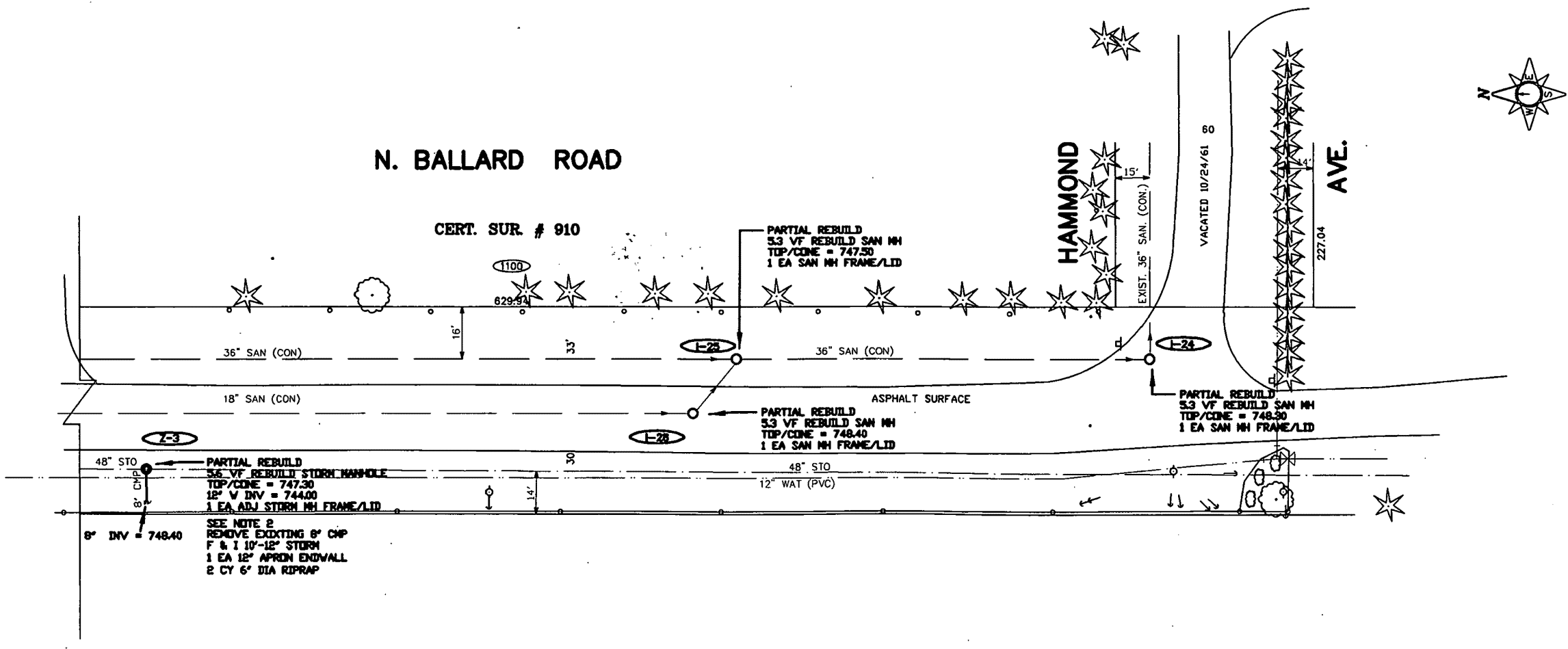
BEFORE CONSTRUCTION THE CONTRACTOR SHALL HAVE THE UTILITIES AND LATERALS LOCATED BY THE UTILITY COMPANIES.



ESTIMATE OF QUANTITIES

SEWER QUANTITIES

26.5 V.F. - REBUILD SAN MANHOLE
5 EA. - F&I SAN MH FRAME/LID
5.6 V.F. - REBUILD STORM MANHOLE
1 EA. - ADJ STORM FRAME/LID
10 LF - F&I 12" STORM
1 EA. - F&I 12" APRON END WALL



CITY OF APPLETON, WIS.
ENGINEERING DIVISION

**SEWER REPAIR
IN
BALLARD ROAD**

DWN: AAE CKD:
DATE: 12/11/01 APP'D:

DRG. NO. 1/4 SEC. U 51 PAGE NO.

SA-1702 32