CITY OF RIDGELAND

MADISON COUNTY, MISSISSIPPI

RICHARDSON ROAD WATER SYSTEM IMPROVEMENTS

N.S. ACCOUNT NO. 3-1914-01

MAYOR

GENE F. McGEE

MAYOR PRO TEM

HARVEY CARR, JR.

CITY ATTORNEY

JERRY MILLS

BOARD OF ALDERMEN

BRIAN BARCELLONA

AL BIBLE

HARVEY CARR, JR.

LINDA DAVIS

DARYL SMITH

PUBLIC WORKS DIRECTOR

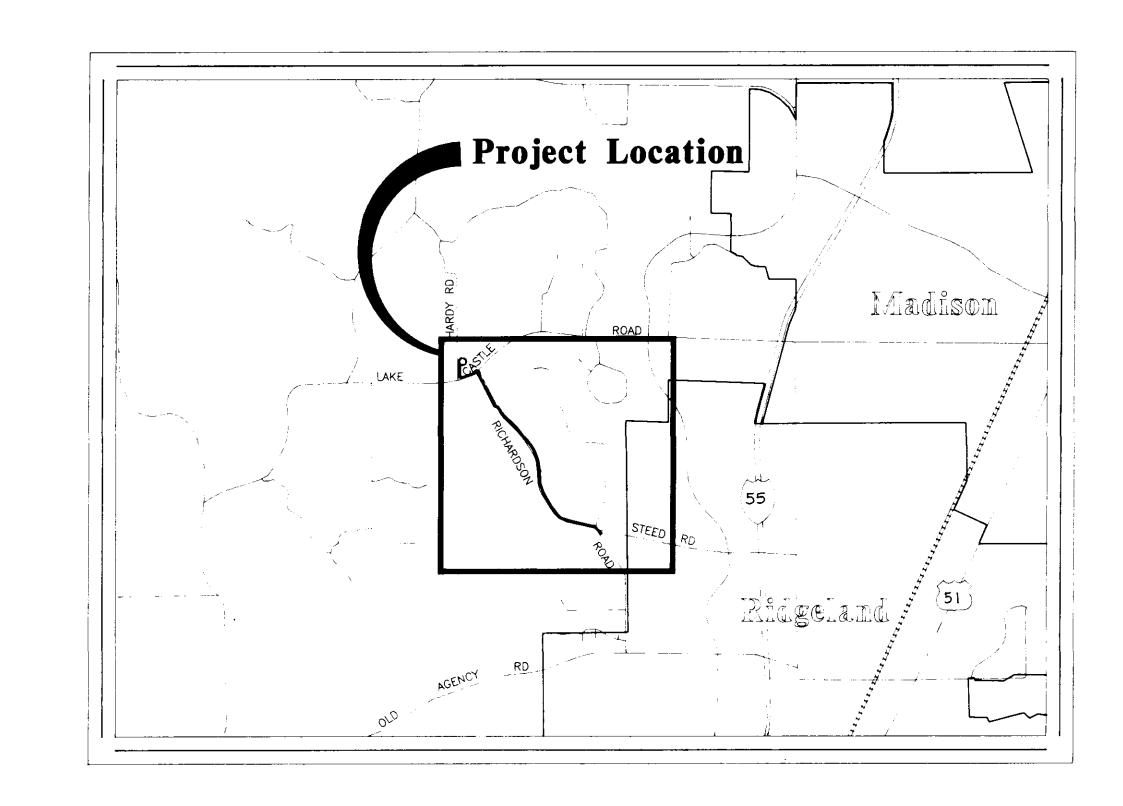
SAM VINSON, P.E.

ASSISTANT PUBLIC WORKS DIRECTOR

SID HAWTHORNE

CITY CLERK

MICHAEL MCPHEARSON

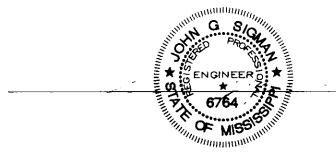




SEPTEMBER 1992

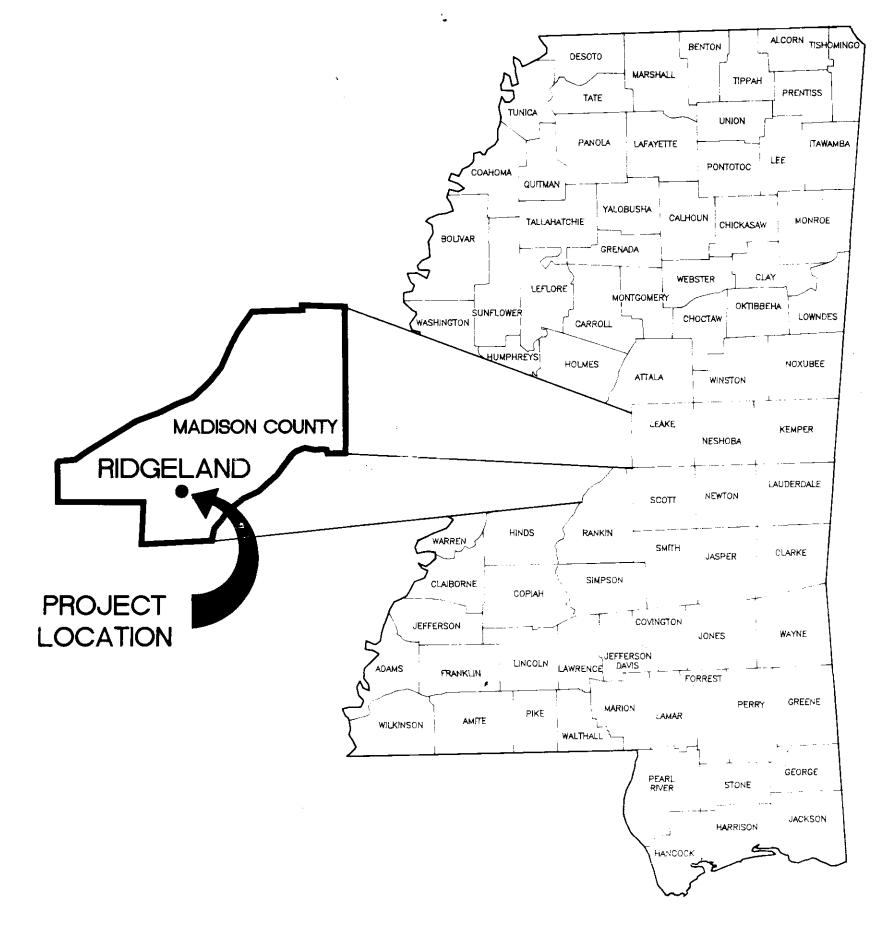
PREPARED BY :



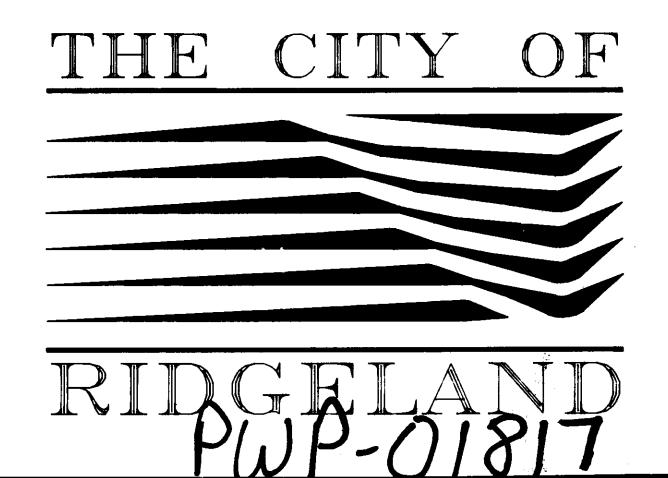


DATE: 1/1/1

JOHN G. SIGMAN, P.E. MISSISSIPPI LICENSE NO. 6764



LOCATION MAP



INDEX TO DRAWINGS

- 1. COVER SHEET
- 2. INDEX TO DRAWINGS, LEGEND, GENERAL NOTES AND ABBREVIATIONS
- 3. 6" AND 16" WATER LINES
- 4. 16" WATER LINE
- 5. 16" AND 8" WATER LINES
- 6. 16" WATER LINE
- 7. 16" WATER LINE
- 8. 8" WATER LINE
- 9. DETAILS BOOSTER PUMPING STATION
- 10. MISCELLANEOUS DETAILS
- 11. TRAFFIC CONTROL PLAN

ABBREVIATIONS

DRAWING EXISTING EX. OR EXIST. T.B.R. TO BE REMOVED U.G. UNDERGROUND IN ACCORDANCE WITH I.A.W. WELDED WIRE FABRIC W.W.F. DUCTILE IRON PIPE MECHANICAL JOINT PIPE REQUIRED DET. DETAIL O.D. OUTSIDE DIAMETER E.W.O.C. EACH WAY ON CENTER POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH ADJUSTMENT RADIUS POWER POLE OPENING SIDEWALK MODIFICATION NOT TO SCALE N.T.S. OVERHEAD

LEGEND

x	EXISTING FENCE
	PROPOSED WATER LIN
	CENTER LINE STREET
	PERMANENT EASEMEN
	TEMPORARY EASEMEN
	RIGHT OF WAY
GAS	EXISTING GAS LINE
TEL	EXISTING TELEPHONE
	EXISTING WATER LINE
	EXISTING CONTOUR
***	PROPOSED FIRE HYDRA
	EXISTING FIRE HYDRAN
0	IRON PIN
<u>. </u>	UTILITY POLE
••	GUY
wv >>	GATE VALVE
-o -	ROAD SIGN
©	WATER METER
O	TELEPHONE PEDESTAL
⊗	PIPE LINE VENT

GENERAL NOTES

- 1 ALL DIMENSIONS SHOWN ON THE PLANS (SCALED OR COMPUTED), OR STAKED IN THE FIELD, SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION IN THE EVENT THE CONTRACTOR DISCOVERS ANY APPARENT ERROR OR DISCREPANCY, HE SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING, REQUESTING HIS INTERPRETATION AND THE ENGINEER WILL MAKE SUCH CORRECTIONS AND DECISIONS IN WRITING AS MAY BE DEEMED NECESSARY TO CARRY OUT THE INTENT OF THE PLANS.
- THE CONTRACT DRAWINGS ARE SCHEMATIC AND MAY SHOW PLUMBING AND PIPING IN A GENERAL WAY ONLY, AND ALL PIPING AND DETAILS ARE NOT NECESSARILY SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH COMPLETE MATERIALS AND COMPLETE ALL WORK NECESSARY FOR A SATISFACTORY INSTALLATION.
- 3 PIPING ROUTES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
- WATER LINES INSTALLED UNDERGROUND SHALL HAVE A MINIMUM OF 3'-0" OF COVER UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- 5 ELECTRICAL CONDUIT INSTALLED UNDERGROUND SHALL HAVE A MINUMUM OF 24" OF COVER UNLESS OTHERWISE SHOWN OF THE DRAWINGS.
- ALL PLUMBING, INCLUDING WATER LINES, ABOVE GROUND EITHER INSIDE OR OUTSIDE OF BUILDINGS SHALL BE INSULATED WITH 1-INCH THICK THERMOZIP SERIES 375 INSULATION (INCLUDING FITTINGS FOR ALL VALVES, ETC.) OR APPROVED EQUAL.
- CONTRACTOR TO MAKE CONNECTIONS TO EXISTING SYSTEM DURING OFF PEAK HOURS, AND COORDINATE WITH CITY PERSONNEL.
- STEEL SHEET PILING OR TRENCH JACKS WILL BE REQUIRED FOR BRACING TRENCH WALLS DURING EXCAVATION IN ALL STREETS EXCEPT WHERE OTHER METHODS OF EXCAVATION ARE SPECIFIED ON CONSTRUCTION PLAN. COST OF SHEET PILING OR TRENCH JACKS SHALL BE INCLUDED IN UNIT PRICE BID FOR INSTALLING WATER LINE.
- SELECT BACKFILL SHALL BE USED TO BACKFILL ALL OPEN-CUT TRENCHES IN PAVED AREAS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 10 EXISTING WATER MAINS, STORM SEWER, SANITARY SEWERS, TELEPHONE CABLES, GAS MAINS, ELECTRICAL CONDUITS, AND OTHER UTILITIES ARE SHOWN FOR CONTRACTOR'S INFORMATION ONLY. LOCATION OF UTILITIES MAY VARY FROM THAT SHOWN ON CONSTRUCTION PLANS. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR LOCATING AND PROTECTING ALL UTILITIES INCLUDING ANY NOT SHOWN ON CONSTRUCTION PLANS.
- 11 CONTRACTOR SHALL RESTORE ALL AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
- 12 ALL EXISTING DRIVEWAYS SHOWN ARE GRAVEL UNLESS OTHERWISE NOTED.
- 13 CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL LIVESTOCK LOCATED ON THE PROJECT SITE ARE NOT INJURED DUE TO HIS ACTIVITIES OR ALLOWED TO PASS THROUGH AREAS OF THE CONSTRUCTION WHERE FENCES HAVE BEEN REMOVED. CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY FENCING OR OTHER SECURITY MEASURES NECESSARY TO PREVENT LOSS OR INJURY TO LIVESTOCK.

INDEX TO DRAWINGS, LEGEND GENERAL NOTES AND ABBREVIATIONS

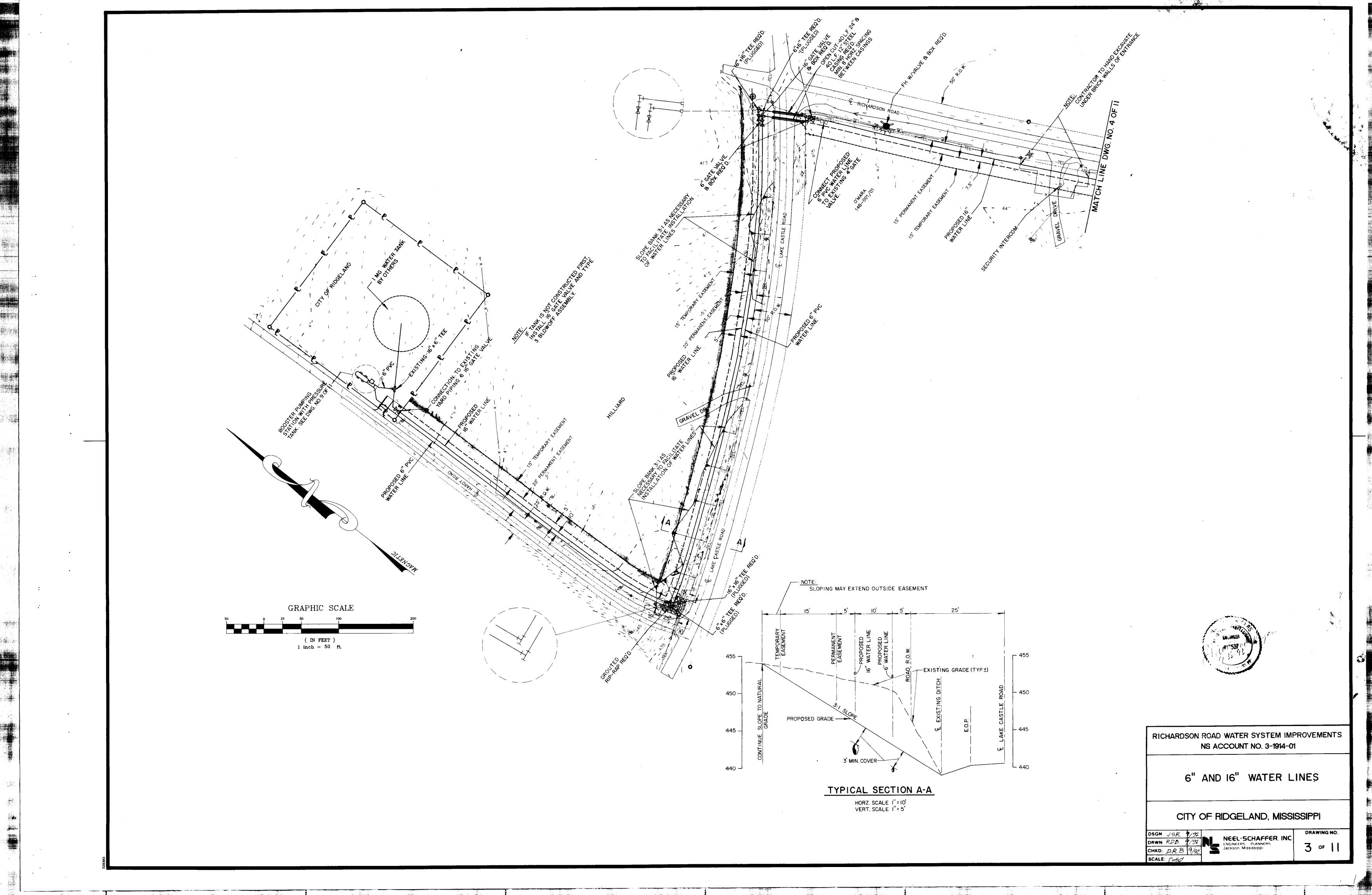
CITY OF RIDGELAND, MISSISSIPPI

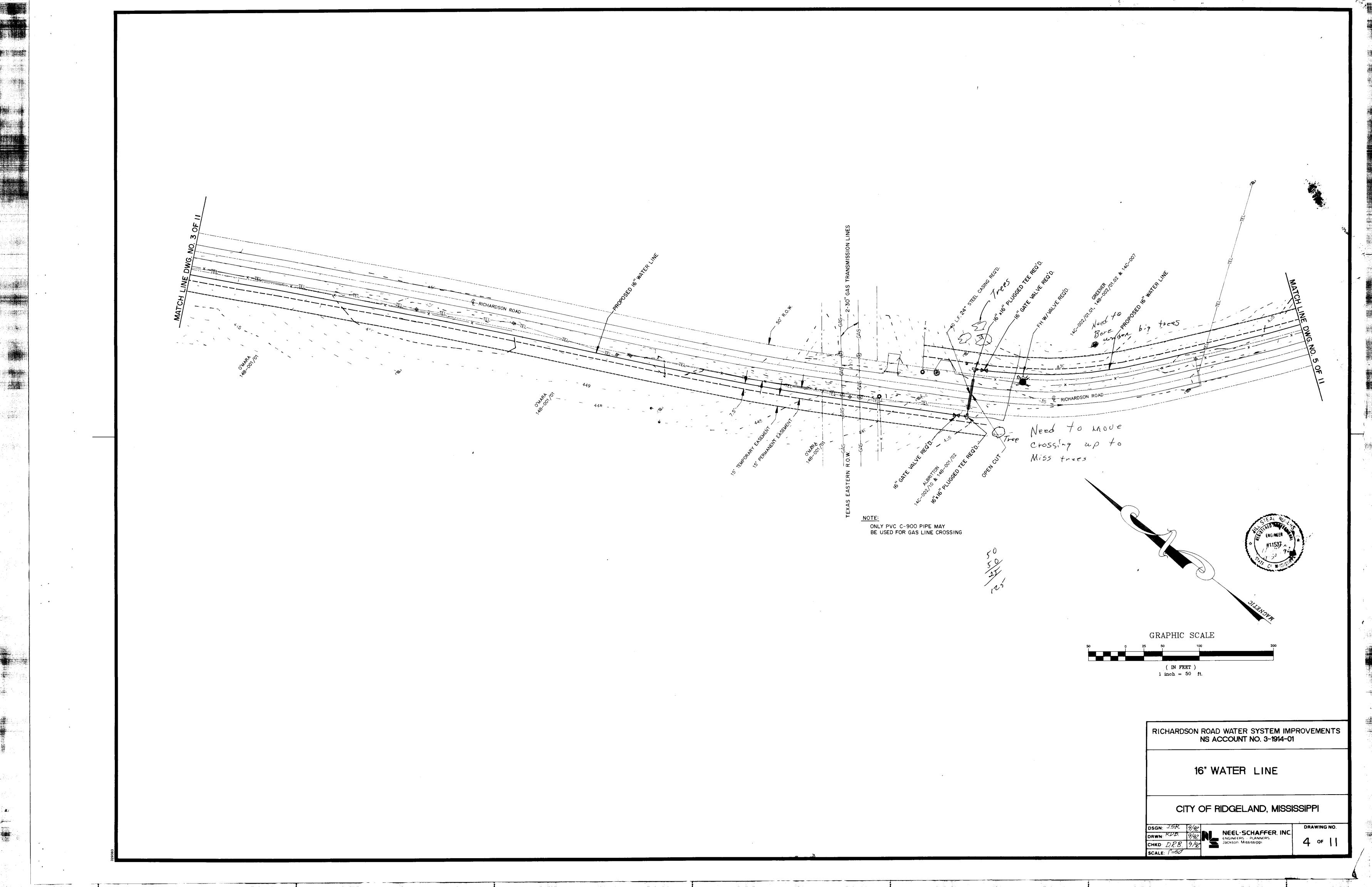
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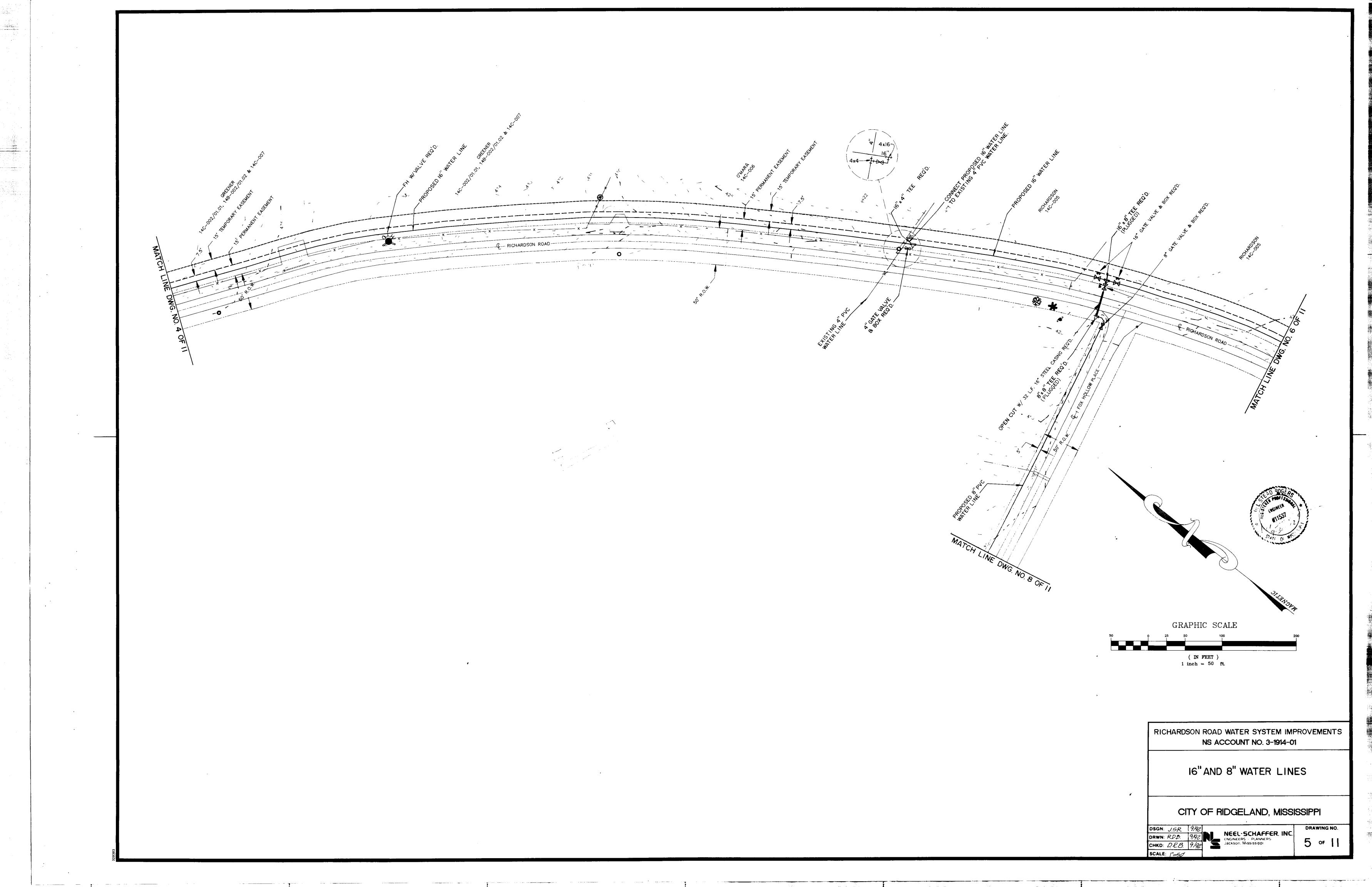
RICHARDSON ROAD WATER SYSTEM IMPROVEMENTS

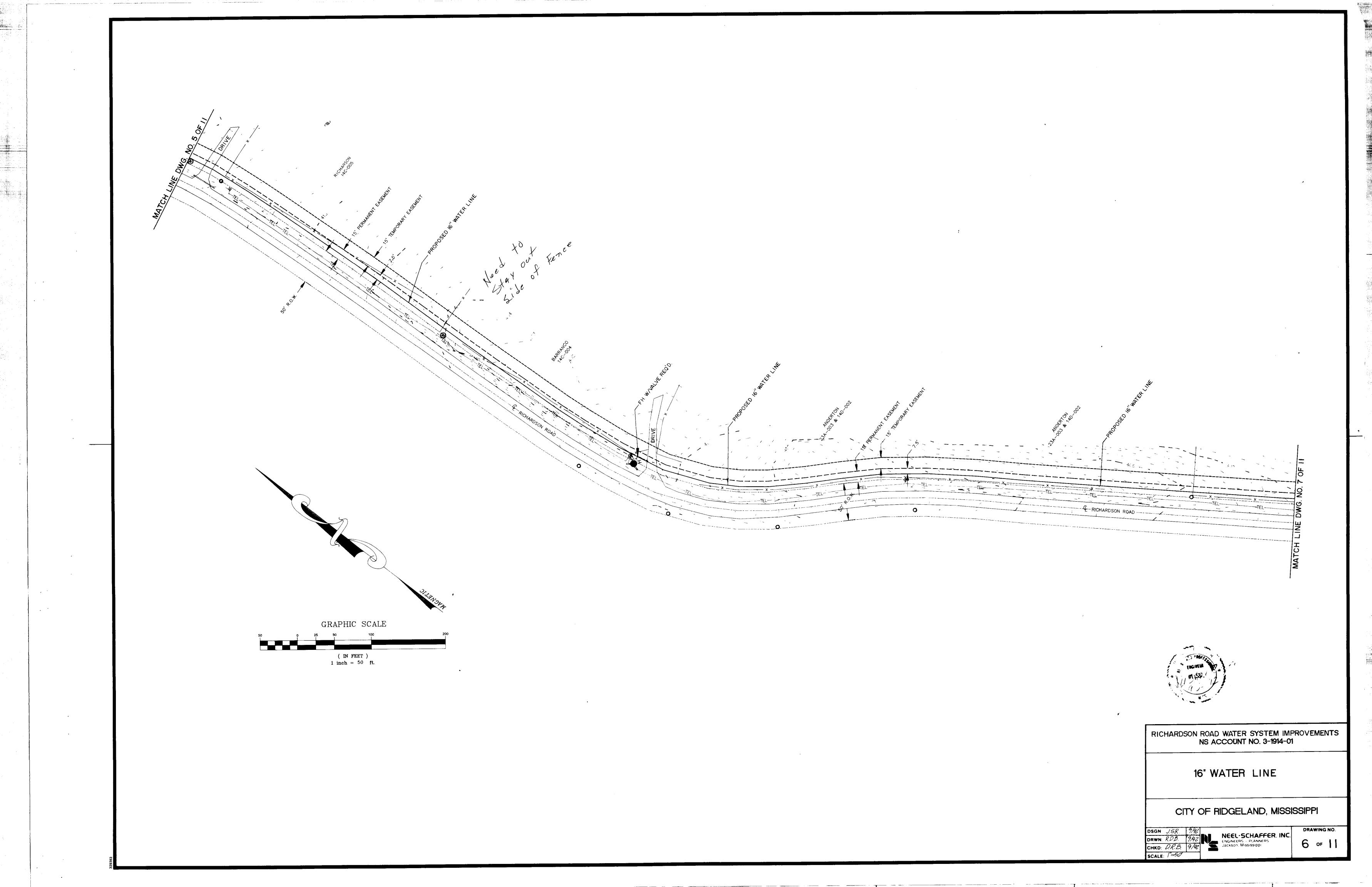
NS ACCOUNT NO. 3-1914-01

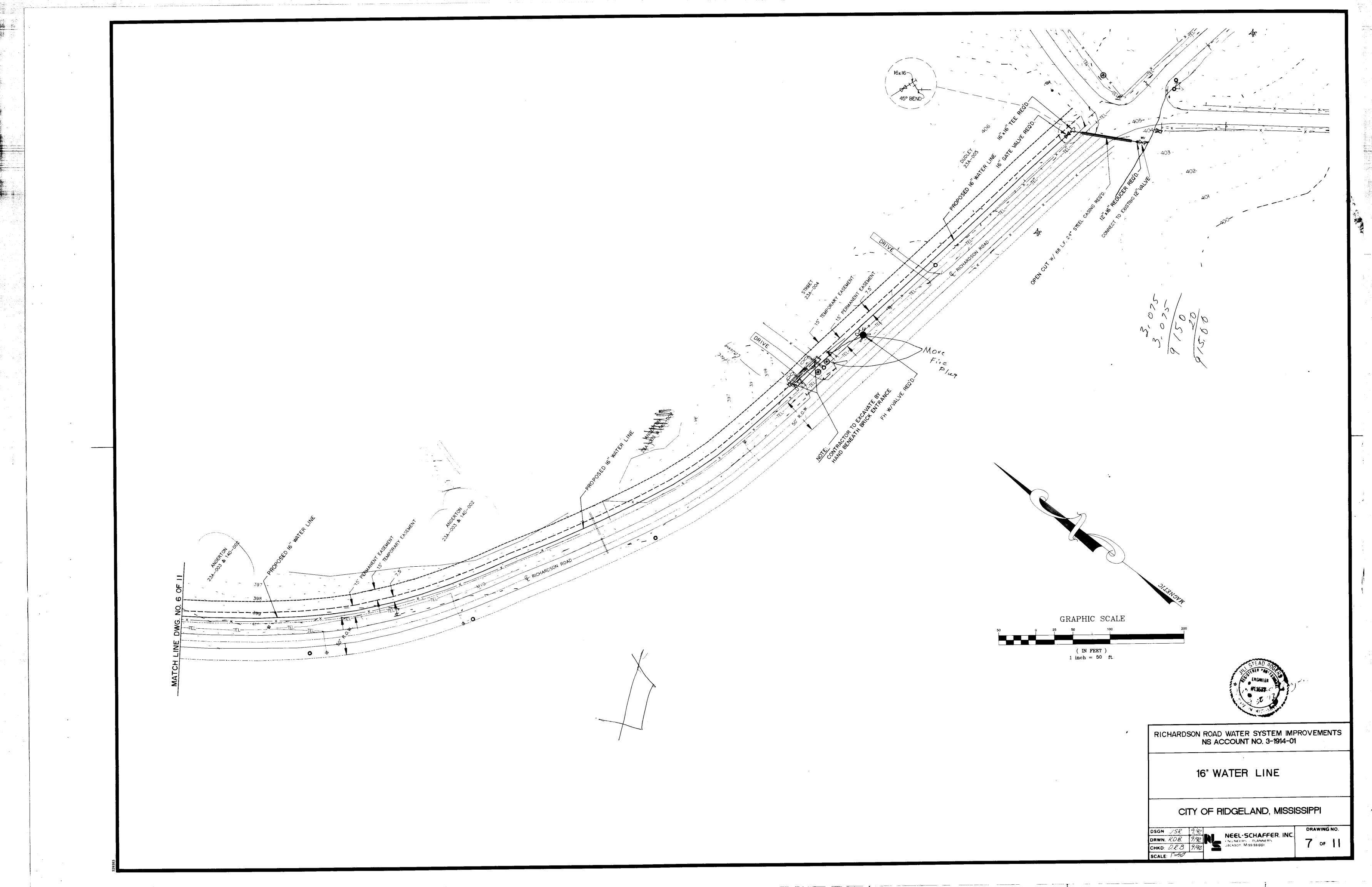
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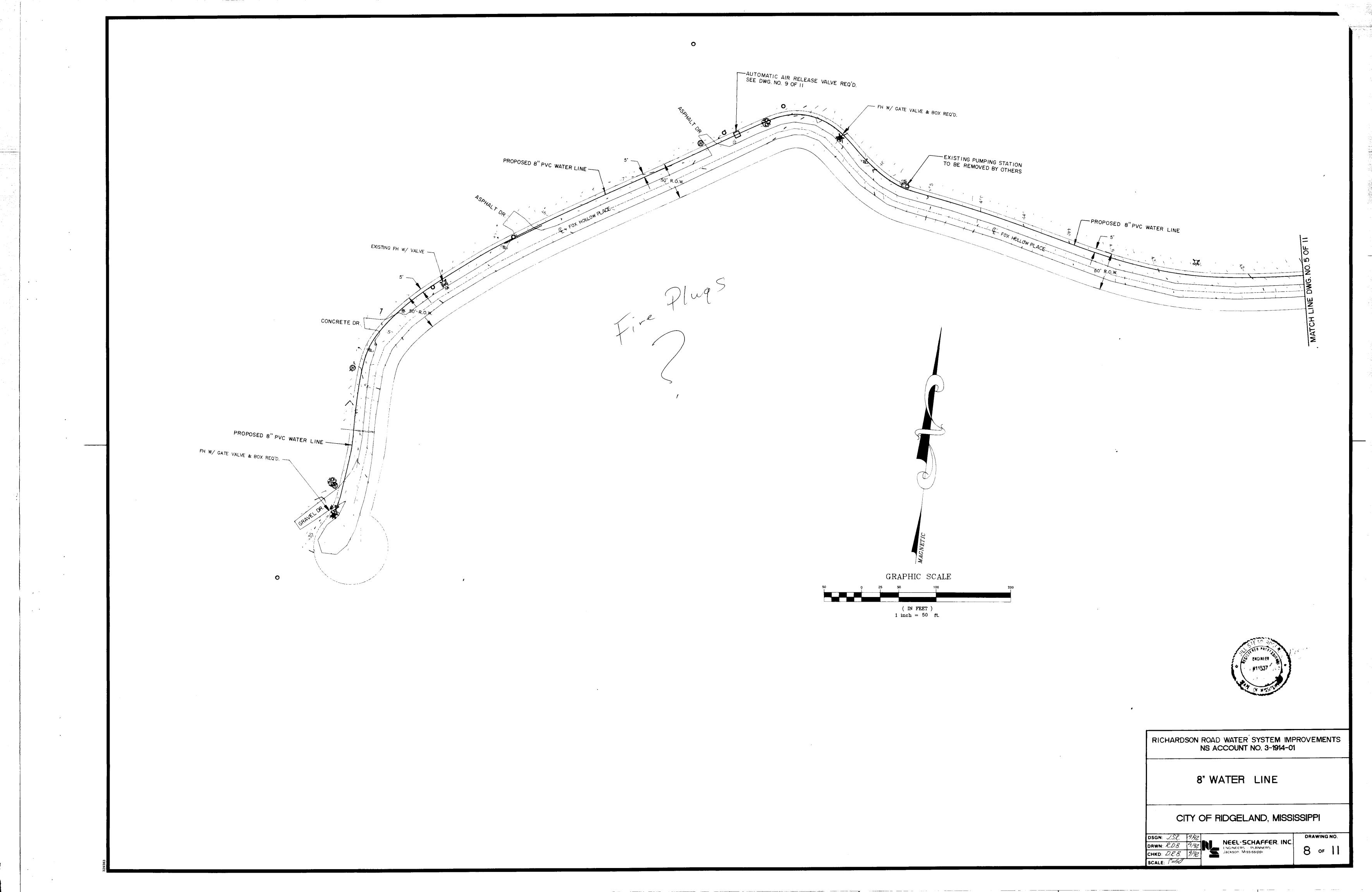


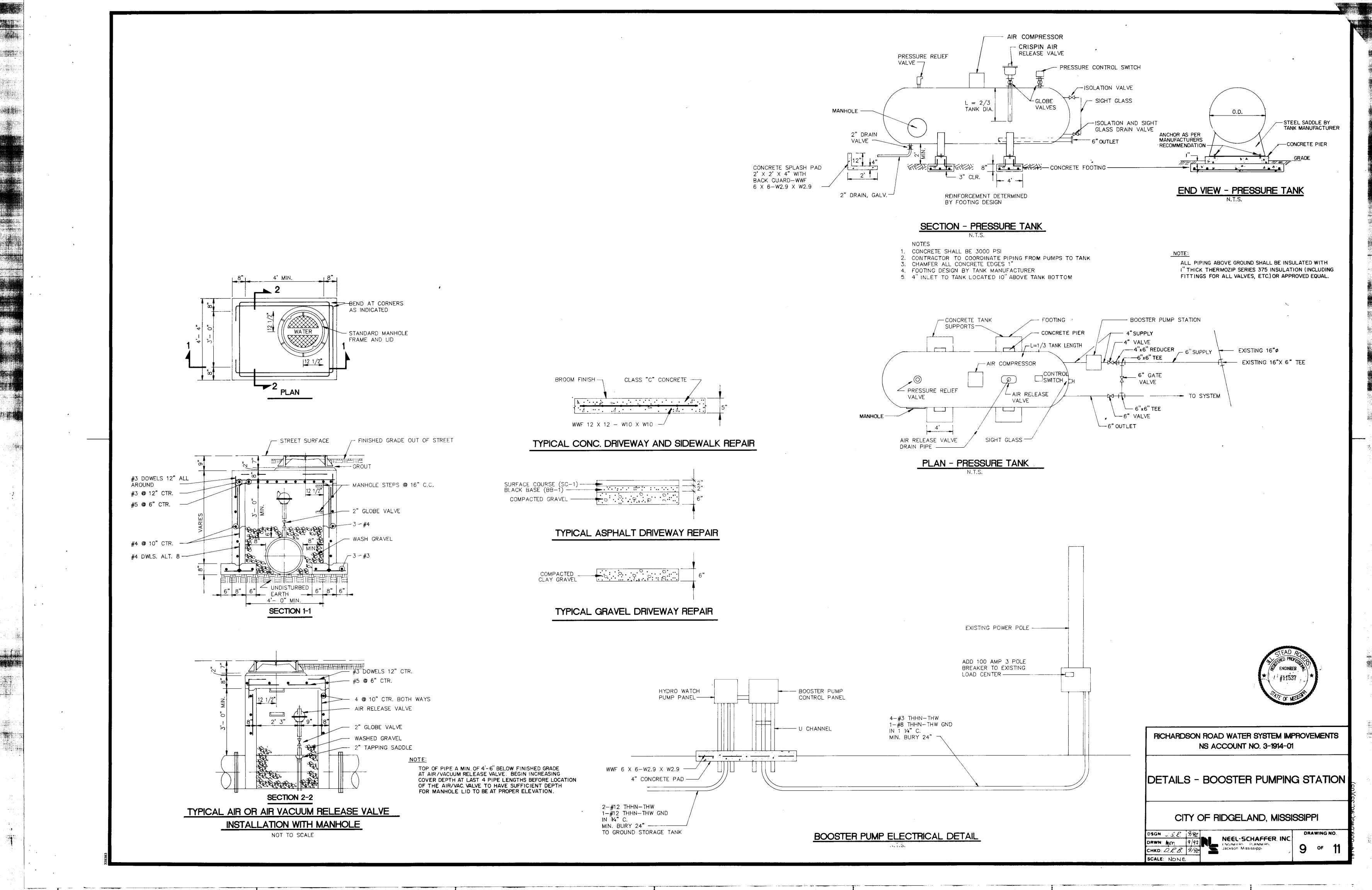












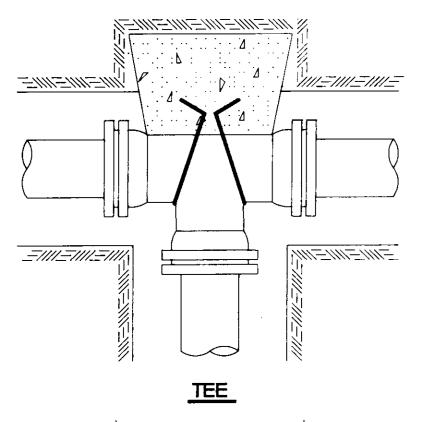
VERTICAL BENDS BEARING AREA IN SQ. FT. 45* | 22 1/2* | 11 1/4* DEAD-END 90° OR TEE BEND DEAD-END 90° NOMINAL PIPE 45' 22 1/2' 11 1/4' DIAMETER (IN) BEND BEND BEND BEND BEND DIAMETER (IN) OR TEE **—** |26.0(1.0)| 14.0(.5) | 7.0(.3) 2.5 3.0 | 2.0 2.0 2.0 45.0(1.7) 25.0(.9) | 13.0(.5) 6.0 3.0 2.0 2.0 8 4.0 68.0(2.5) 37.0(1.4) 19.0(.7) 10 5.0 2.5 97.0(3.6) 52.0(1.9) 27.0(1.0) 2.0 12 11.0 6.0 3.5 9.0 5.0 2.5 130(4.8) 70.0(2.6) 36.0(1.3) 12.0 18.0 9.0 14 14 3.0 12.0 6.0 16.0 22.5 16 168(6.2) 91.0(3.4) 46.0(1.7) 16 18 20.0 28.0 15.0 8.0 4.0 18 211(7.8) | 114(4.2) | 58.0(2.2) 34.0 19.0 10.0 5.0 20 <u> | 259(9.6) | 140(5.2) | 72.0(2.6) </u> 20 24.5 24 370(13.7) 200(7.4) 102(3.8) 24 35.0 27.0 14.0 7.0 30 <u>568(21.1)</u> 308(11.4) 156(5.8) 54.0 76.0 30 21.0 10.0 41.0 -- 814(30.1) 440(16.3) 225(8.3) 77.0 108.0 30.0 36 36 59.0 15.0 20.0 146.0 79.0 40.0 104.0 42

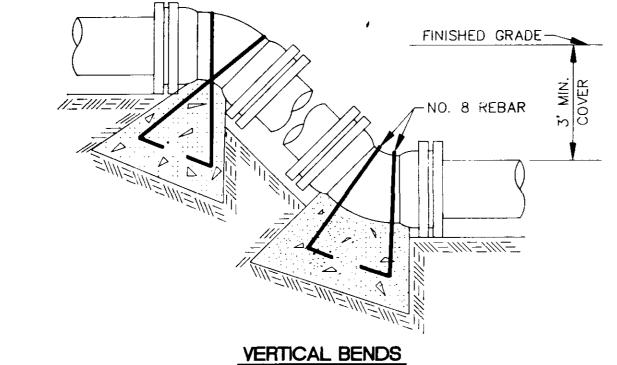
ABOVE VALUES CALCULATED USING P=100 AND ALLOWANCE. SOIL BRG. = 1500 PSF. FOR DIFFERENT P, MULTIPLY ABOVE VALUES BY P/100.

FOR DIFFERENT SOIL BRG, MULTIPLY ABOVE VALUES BY 1500/S.B.

ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSI AND A S.F.=1.5 . FOR DIFFERENT P, MULTIPLY VALUES BY P/100.

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

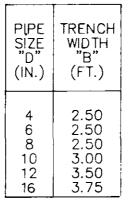




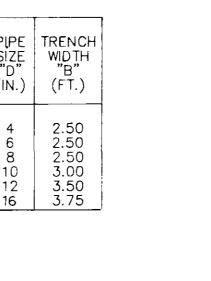
<u> =////=////</u>

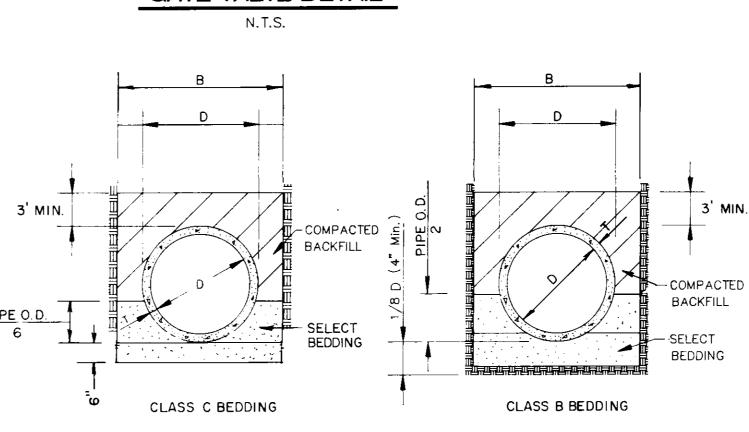
=1111=1111=1111

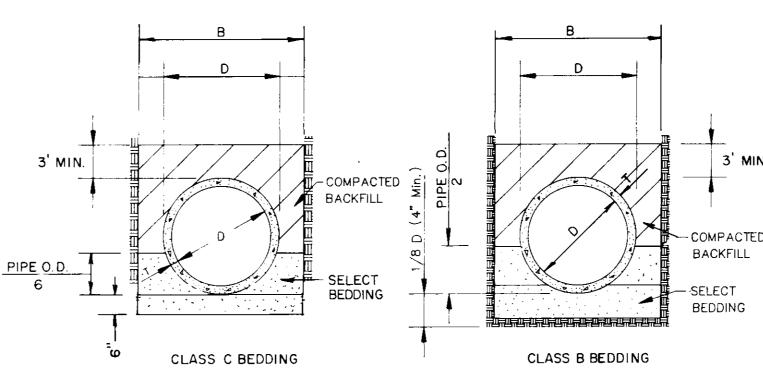
90° BEND



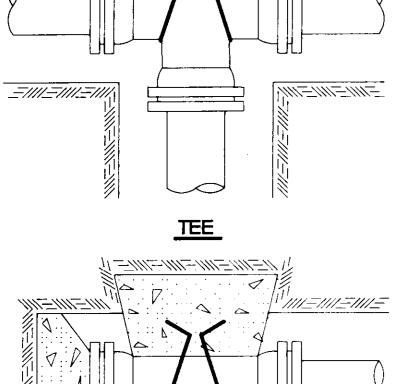
SCHEDULE OF BEDDING







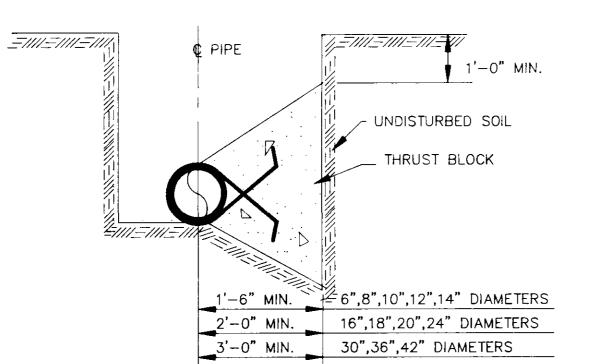








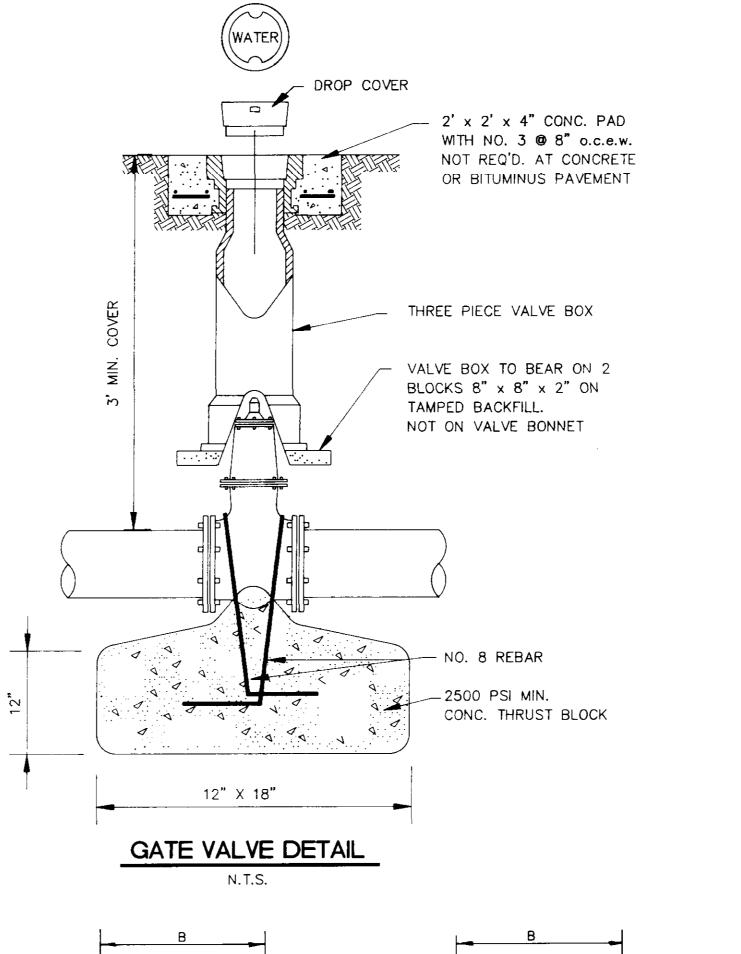
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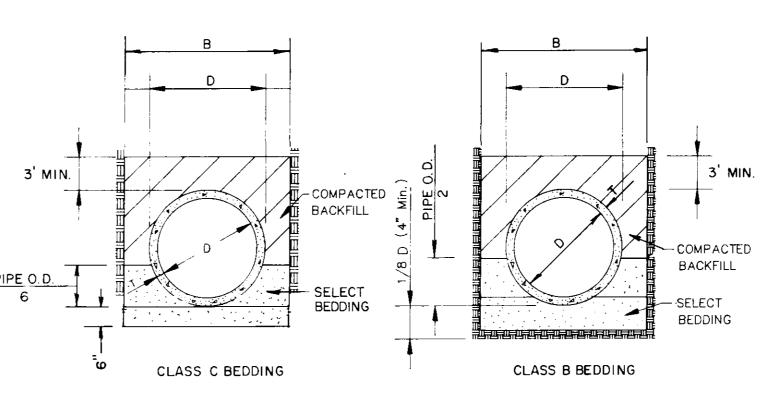


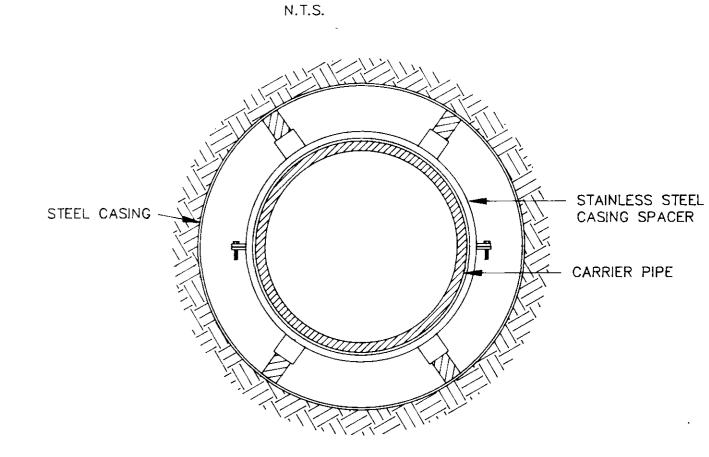
TYPICAL CROSS SECTION

TYPICAL THRUST BLOCKING IN WATER MAINS

N.T.S.
NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH







ELEVATION

TYPICAL FIRE HYDRANT INSTALLATION

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.

- CONCRETE THRUST BLOCK

2,500 PSI CONCRETE

N.S. 1 1/2" PENTAGON

__2-2 1/2" OUTLETS

√1−4 1/2" OUTLET

N.S. THREADS

-FINISHED GRADE

-- MAKE SURE HYDRANT DRAIN IS CLEAR

WASHED GRAVEL

- 4"x8"x16" SOLID WOOD BLOCK

N.S. THREADS

CASING DETAIL

RICHARDSON ROAD WATER SYSTEM IMPROVEMENTS NS ACCOUNT NO. 3-1914-01

MISCELLANEOUS DETAILS

CITY OF RIDGELAND, MISSISSIPPI

DSGN. J. S.R. 9/97
DRWN: M.O.U. 9/92
CHKD: D.R. 8. 9/97
CHKD: D.R. 8. 9/97 SCALE: N.T.S.

10 of 11

LOCKED HYDRANT ADAPTER

