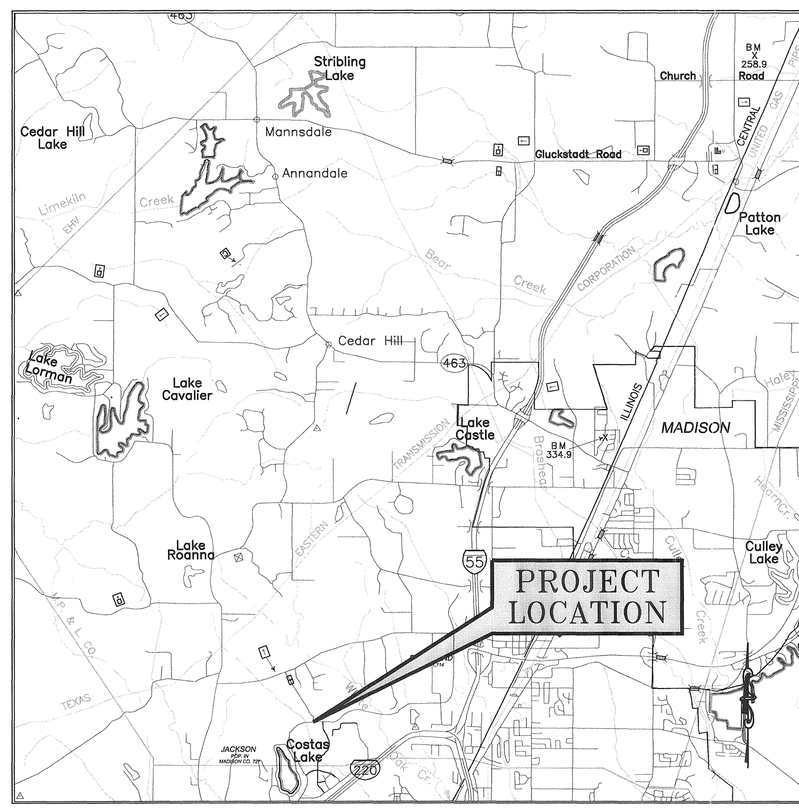
RIDGELAND WATER SYSTEM CONNECTION AT HIGHLAND PARK BOULEVARD

CITY OF RIDGELAND, MISSISSIPPI

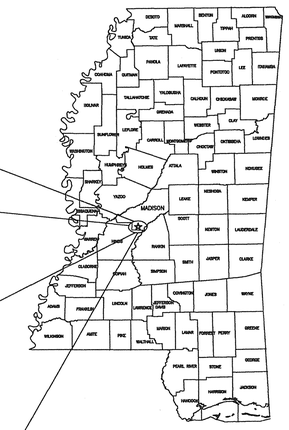
INDEX TO DRAWINGS

SHEET NO.	TITLE
G.1	COVER SHEET
C.1	PROPOSED WATER CONNECTION LAYOUT
CD.1	CONSTRUCTION DETAILS
CD.2	CONSTRUCTION DETAILS



VICINITY MAP
NOT TO SCALE

June 2009



MAYOR:
GENE F. McGEE

BOARD OF ALDERMAN:
GERALD STEEN (AT-LARGE)
KEN HEARD, WARD 1
CHUCK GAUTIER, WARD 2
KEVIN HOLDER, WARD 3
BRIAN RAMSEY, WARD 4
SCOTT JONES, WARD 5
WESLEY HAMLIN, WARD 6

PUBLIC WORKS DIRECTOR:
MIKE McCOLLUM

Record Drawing *April 6, 2010*

WAGGONER
143-A LeFleurs Square
JACKSON, MS 39211
601-355-9526
FAX 601-352-3945

RIDGELAND WATER SYSTEM CONNECTION
AT HIGHLAND PARK BOULEVARD
FOR
CITY OF RIDGELAND, MISSISSIPPI

DRAWING REVISIONS

NO.	REMARKS	DATE

SEAL:

CHARLES T. KING
REGISTERED PROFESSIONAL ENGINEER
4-6-10
9664
STATE OF MISSISSIPPI

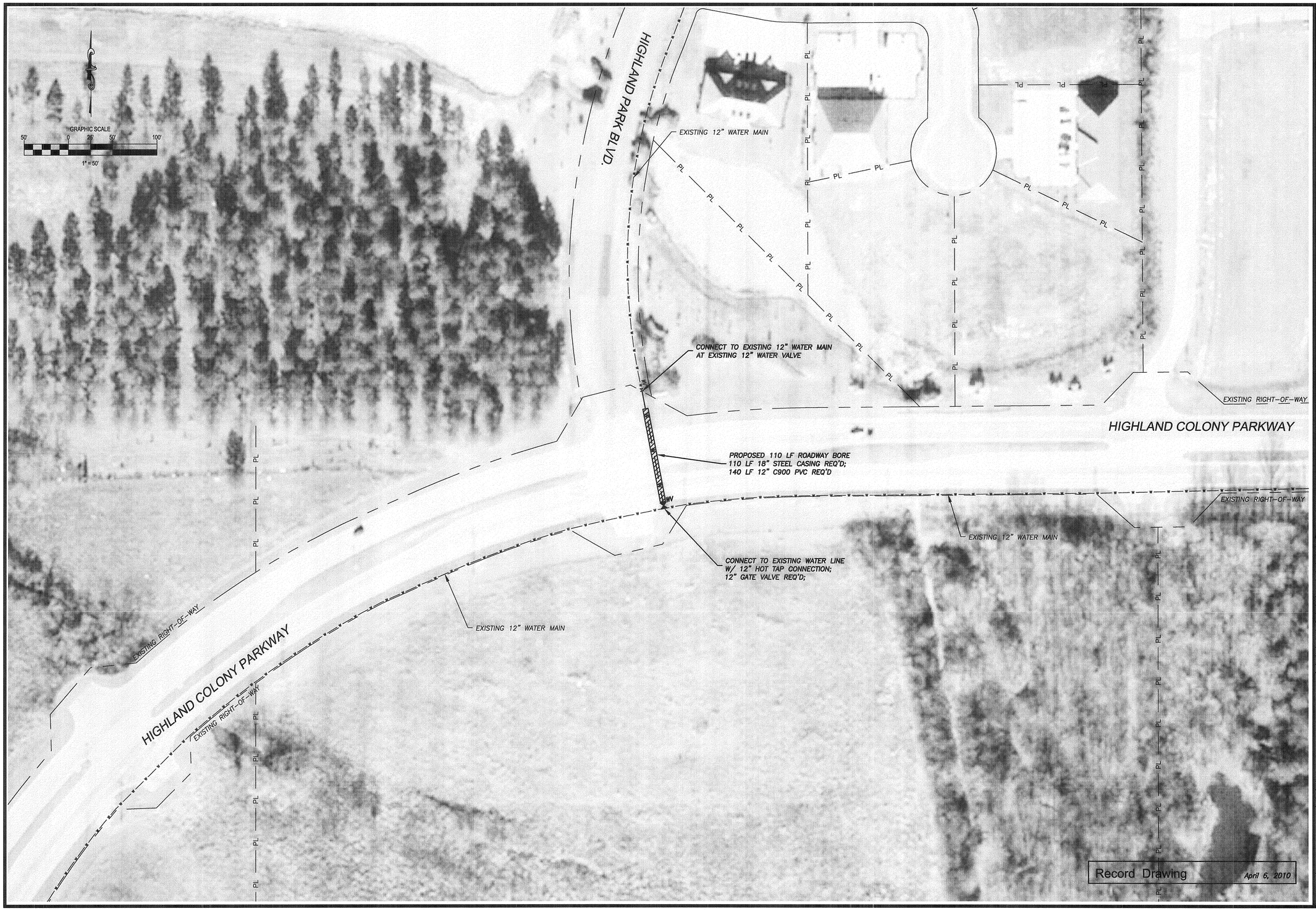
DRAWN BY:	CRB	SCALE:	N.T.S.
DESIGNED BY:	CTK	DATE:	June 2009
CHECKED BY:	CTK	PROJECT:	

DRAWING TITLE:

Cover Sheet

SHEET NUMBER:

G1.0



WAGGONER
143-A LeFleurs Square
JACKSON, MS 39211
601-355-9526
FAX 601-352-3945

RIDGELAND WATER SYSTEM CONNECTION AT HIGHLAND PARK BOULEVARD FOR CITY OF RIDGELAND, MISSISSIPPI

DRAWING REVISIONS

NO.	REMARKS	DATE

SEAL:

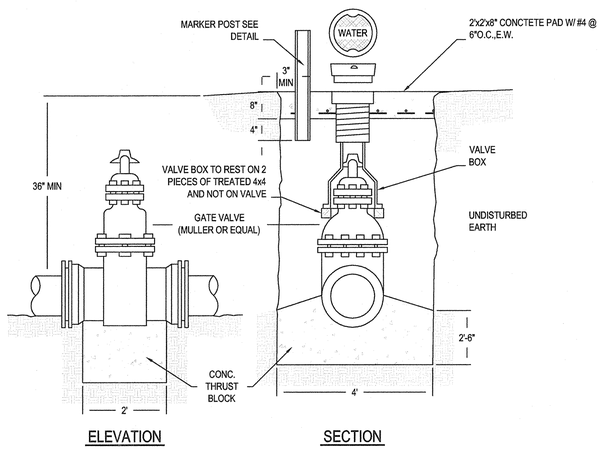
DRAWN BY:	CWB	SCALE:	1" = 50'
DESIGNED BY:	CTK	DATE:	June 2009
CHECKED BY:	CTK	PROJECT:	

DRAWING TITLE:

Proposed Water Connection Layout

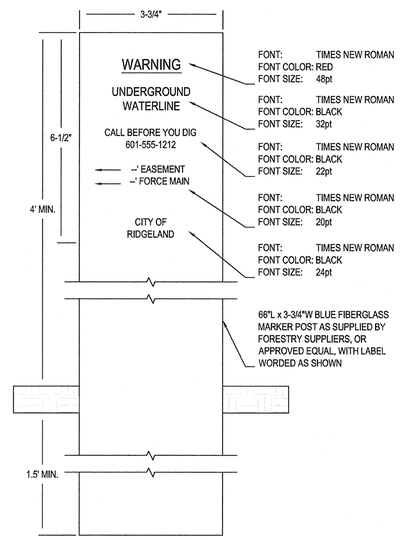
SHEET NUMBER:

C1.0



GATE VALVE & BOX

SCALE: N.T.S.



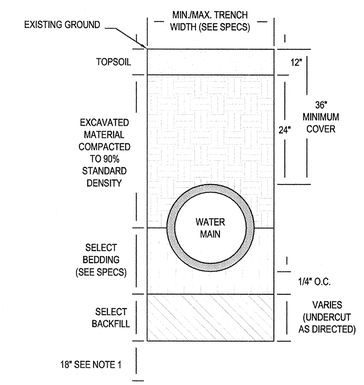
MARKER POST

SCALE: N.T.S.

NOTE:

1) DEWATERING REQUIRED TO THIS LEVEL (MIN.). THE CONTRACTOR SHALL MAINTAIN WATER LEVEL TO A LEVEL OF 18" OR GREATER BELOW THE UNDERCUT DEPTH OR THE TRENCH SUBGRADE, WHICHEVER IS DEEPER, BEFORE PIPE PLACEMENT WILL BE ALLOWED.

2) SEE SPECIFICATIONS FOR COMPACTION REQUIREMENTS AND MIN/MAX TRENCH WIDTH



TRENCH DETAIL

SCALE: N.T.S.

Record Drawing *April 6, 2010*

WAGGONER
143-A LeFleurs Square
JACKSON, MS 39211
601-355-9526
FAX 601-352-3945

RIDGELAND WATER SYSTEM CONNECTION AT HIGHLAND PARK BOULEVARD FOR CITY OF RIDGELAND, MISSISSIPPI

DRAWING REVISIONS

NO.	REMARKS	DATE

SEAL:

DRAWN BY:	CWB	SCALE:	As Shown
DESIGNED BY:	CTK	DATE:	June 2009
CHECKED BY:	CTK	PROJECT:	

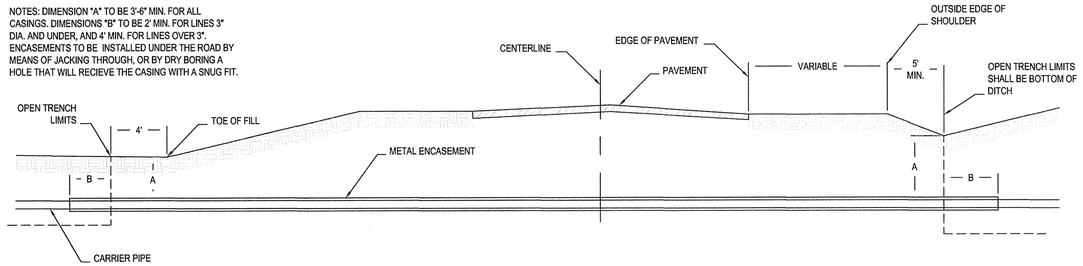
DRAWING TITLE:

Construction Details

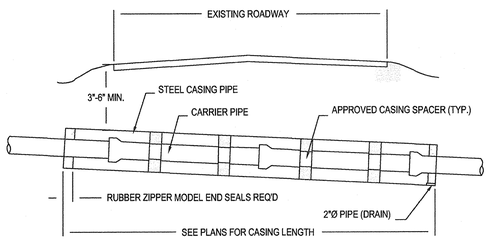
SHEET NUMBER:

CD.1

NOTES: DIMENSION "A" TO BE 3'-6" MIN. FOR ALL CASINGS. DIMENSIONS "B" TO BE 2' MIN. FOR LINES 3" DIA. AND UNDER, AND 4' MIN. FOR LINES OVER 3". ENCASEMENTS TO BE INSTALLED UNDER THE ROAD BY MEANS OF JACKING THROUGH, OR BY DRY BORING A HOLE THAT WILL RECIEVE THE CASING WITH A SNUG FIT.



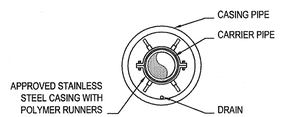
CROSS SECTION OF CONDUIT CROSSING
SCALE: N.T.S.



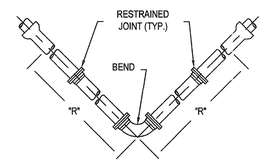
NOTES

1. SPACE CASING SPACERS ACCORDIND TO PIPE OR SPACER MANUFACTURE'S RECOMMENDATIONS OR 2 PER SECTION OF PIPE, WHICHEVER IS GREATEST, PLUS 1 WITHIN 2 FEET OF EACH END OF CROSSING.
2. PUSH OR PULL THE CARRIER PIPE THROUGH THE CASING SO THAT THE CARRIER JOINTS ARE ALWAYS COMPRESSED.

CASING SPACER DETAIL
SCALE: N.T.S.



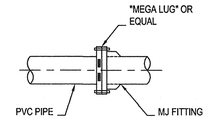
PIPE IN CASING END VIEW



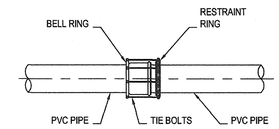
PIPE DIAMETER	"R" FOR 11¼° BEND	"R" FOR 22½° BEND	"R" FOR 45° BEND	"R" FOR 90° BEND	"R" FOR DEAD END
8"	3'	6'	12'	29'	25'
12"	4'	8'	17'	42'	37'
16"	5'	11'	23'	55'	49'
18"	6'	12'	25'	61'	55'
24"	8'	16'	33'	80'	73'
30"	10'	20'	41'	99'	90'

NOTES:
1. RESTRAINED JOINT PIPE SHALL BE USED AT ALL BENDS.
2. THE LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND SHALL BE NOT LESS THAN THE "R" DISTANCES.
3. ALL JOINTS WITHIN THE DISTANCE "R" ESTABLISHED ABOVE SHALL BE RESTRAINED.
4. ALL PIPE IN CASINGS SHALL BE RESTRAINED, BUT PIPE LENGTHS IN CASING SHALL NOT APPLY TOWARD REQUIRED RESTRAINED LENGTHS FOR ADJACENT BENDS.
5. RESTRAINED JOINT LENGHTS WERE CALCULATED BASED ON DIPRA THRUST RESTRAINT GUIDELINES UNDER THE FOLLOWING CONDITIONS:
   LAYING CONDITION - TYPE 3
   SOIL DESIGNATION - CLAY 2
   DEPTH OF COVER - 3.5'
   DESIGN PRESSURE - 150 PSI
   SAFETY FACTOR - 1.5
   IF ANY OF THESE ASSUMPTIONS SIGNFICANTLY DIFFER FROM THE LAYING CONDITIONS, NEW THRUST RESTRAINT CALCULATIONS SHOULD BE PERFORMED.
6. FOR BENDS IN THE VERTICAL PLANE INCREASE THE "R" DISTANCE BY A FACTOR OF 1.75.

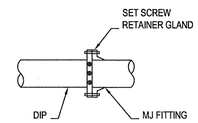
RESTRAINED JOINT DETAL
SCALE: N.T.S.



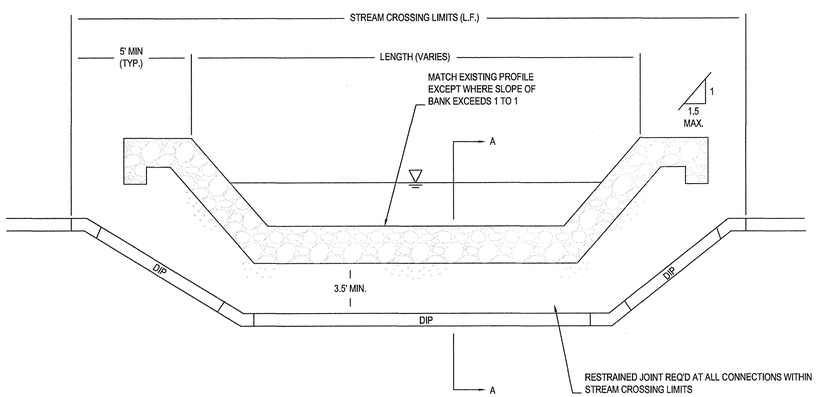
TYPICAL PVC RESTRAINED JOINT AT MJ FITTING
SCALE: N.T.S.



TYPICAL IN-LINE PVC RESTRAINED JOINT
SCALE: N.T.S.

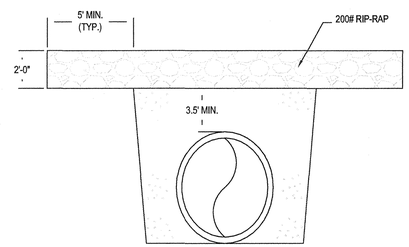


TYPICAL DI RESTRAINED JOINT AT MJ FITTING
SCALE: N.T.S.



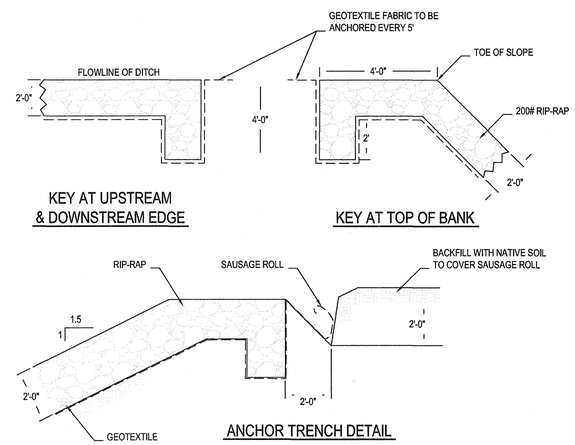
NOTE: ALL ITEMS SHOWN TO BE INCLUDED IN LUMP SUM BID ITEM FOR STREAM CROSSINGS (IE: PIPE, FITTINGS, RIP-RAP, AND ALL OTHER ITEMS NECESSARY FOR A COMPLETE INSTALLATION)

ELEVATION



SECTION A-A

STREAM CROSSING
SCALE: N.T.S.



RIP-RAP DETAILS
SCALE: N.T.S.

Record Drawing *April 6, 2010*

WAGGONER
143-A LeFleurs Square
JACKSON, MS 39211
601-355-9526
FAX 601-352-3945

RIDGELAND WATER SYSTEM CONNECTION AT HIGHLAND PARK BOULEVARD FOR CITY OF RIDGELAND, MISSISSIPPI

DRAWING REVISIONS

NO.	REMARKS	DATE

SEAL:

DRAWN BY:	CVB	SCALE:	As Shown
DESIGNED BY:	CTK	DATE:	June 2009
CHECKED BY:	CTK	PROJECT:	

DRAWING TITLE:

Construction Details

SHEET NUMBER:

CD.2