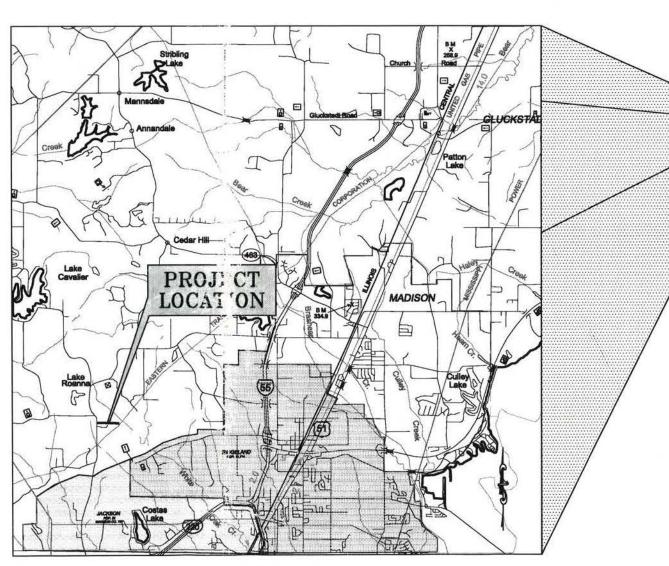
## WESTERN WATER SYSTEM IMPROVEMENTS PHASE I WATER MAINS

## WALTER PAYTON LANE WATER DISTRIBUTION IMPROVEMENTS

CITY OF RIDGELAND, MISSISSIPPI

	INDEX TO DRAWINGS				
SHEET NO. SHEET TITLE					
G1.0	COVER SHEET				
WP P1.0 WALTER PAYTON LANE WATER MAIN PLAN VIEW, STA. 10+00 TO ST					
WP P2.0 WALTER PAYTON LANE WATER MAIN PLAN VIEW, STA. 37+50 TO STA. 4					
WD1.0         WATER DETAILS           WD2.0         WATER DETAILS           WD3.0         WATER DETAILS           WD4.0         MAINTENANCE OF TRAFFICE DETAILS           WD5.0         EROSION CONTROL DETAILS					
				WD6.0	EROSION CONTROL DETAILS



## UTILITIES:

TELPAK NETWORKS - FIBER OPTIC - 601.487.7196 (business)
ATMOS ENERGY - GAS - 601.991.2388 (locate service)
TEXAS EASTERN PIPELINE - GAS - 601.982.8290 (business)
ENTERGY MISSISSIPPI, INC. - ELECTRIC - 601.991.2388 (locate service), 601.351.4119 (substation)
COMCAST - CABLE - 601.991.2388 (locate service)
AT&T - PHONE - 601.991.2388 (locate service)
CITY OF RIDGELAND - WATER & SEWER - 601.853.2027 (business)

VICINITY MAP NOT TO SCALE

MARCH 2011 WEI #: W010067 WESTERN WATER SYSTEM IMPROVEMENTS
WALTER PAYTON LANE
WATER DISTRIBUTION IMPROVEMENTS
CITY OF RIDGELAND, MS

DRAWING REVISIONS

NO. REMARKS DATE

BAL

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

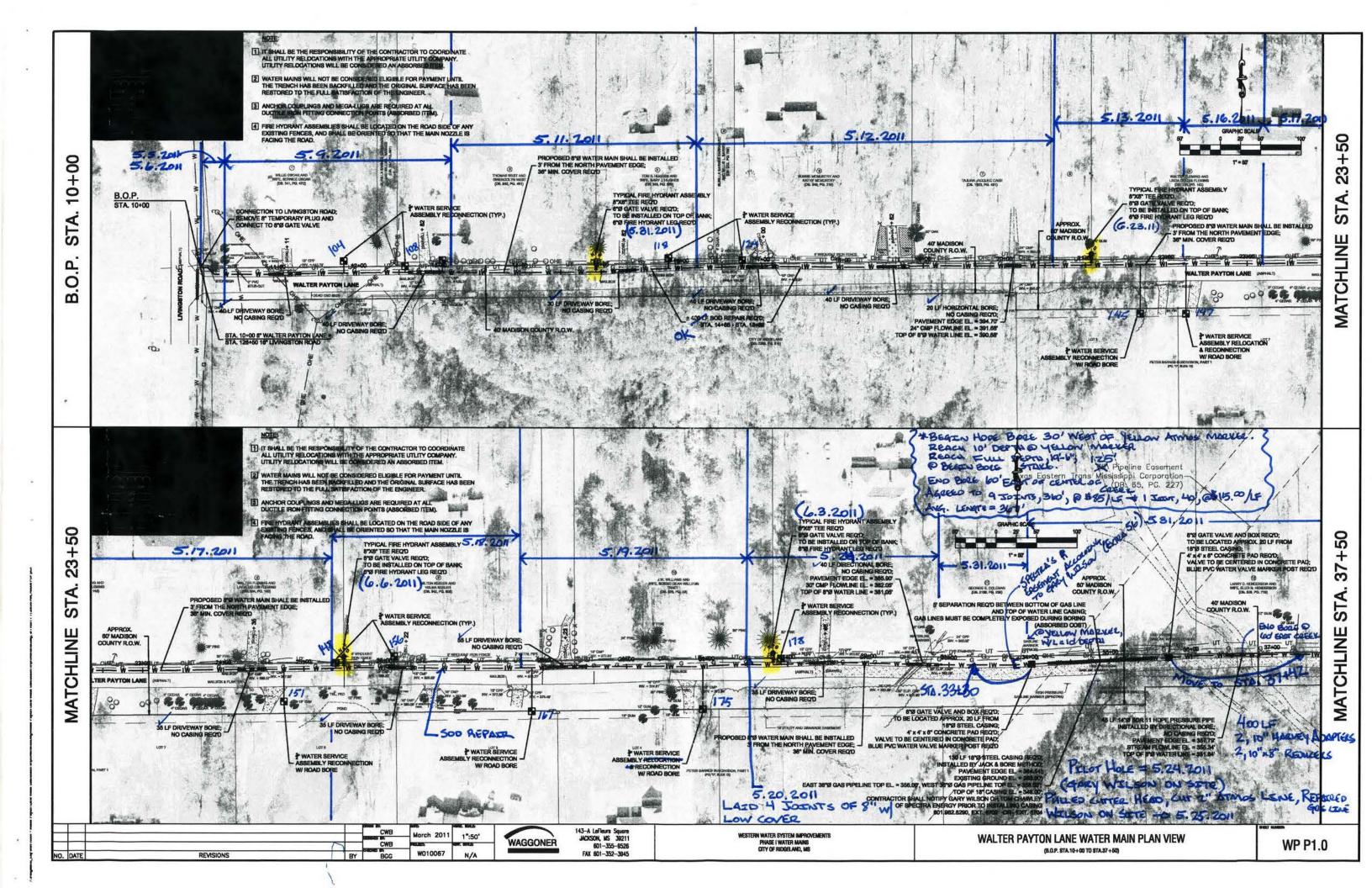
WESLEY HAMLIN, WARD 6

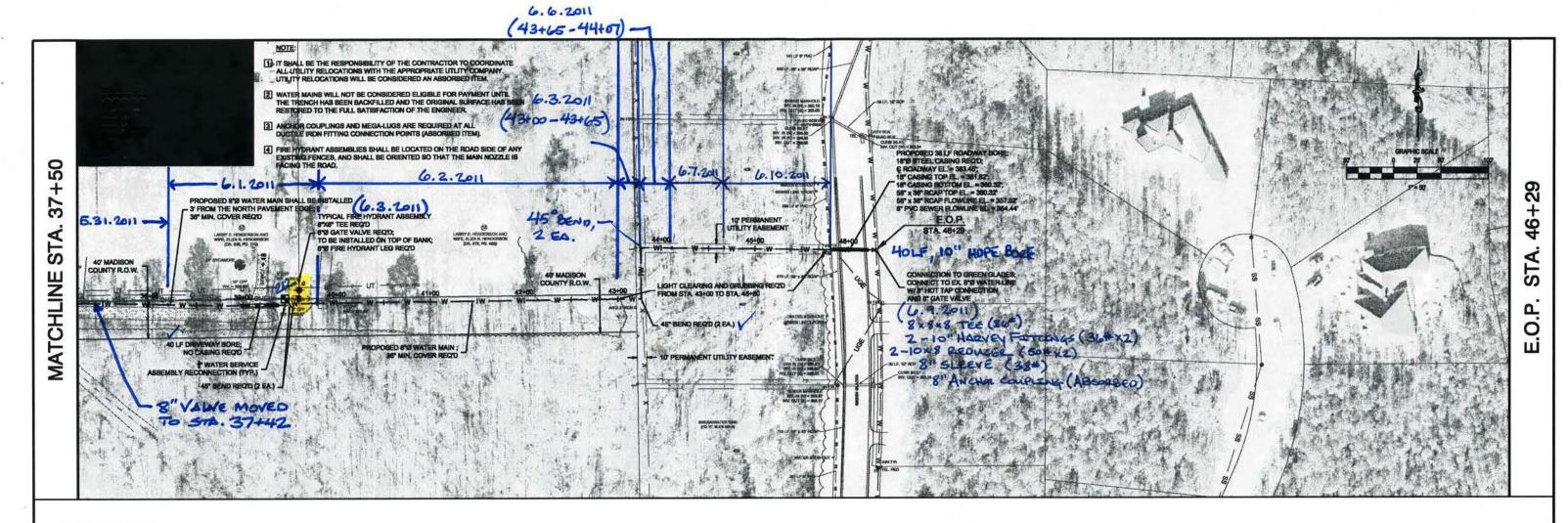
UBLIC WORKS DIRECTOR:

MIKE McCOLLUM

Cover Sheet

G1.0





5.31. 2011

8" PVC = STA. 38+18 - STA. 32+90 - 400 LP BOOK = 128 LF

10" HOPE = 367'

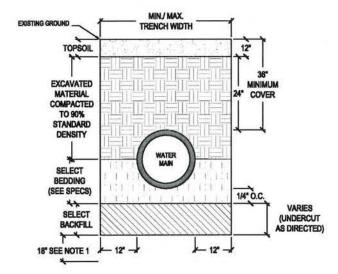
2-8" VALVES

25to 10x9260000 ×2@ 50# 64.

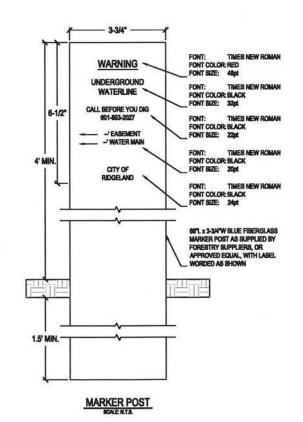
2 HARVEY ADAPTERS @ 36+EA. [INDERENDENT PERE PRODUCES]

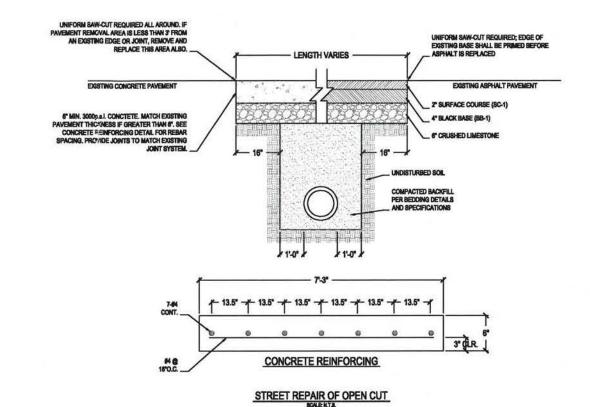
		Own	CWB	March 2011 1":50"		143-A Lefleurs Square	WESTERN WATER SYSTEM IMPROVEMENTS	WALTED DAYTON LANE WATER MAIN DLAN VIEW	RELY MANUA
NO. DATE	REVISIONS	BY	CWB BGG	W010067 N/A	WAGGONER	JACKSON, MS 39211 601-355-9526 FAX 601-352-3945	PHASE I WATER MAINS CITY OF RIDGELAND, MS	WALTER PAYTON LANE WATER MAIN PLAN VIEW (STA37+50 TO E.O.P. STA46+29)	WP P2.0

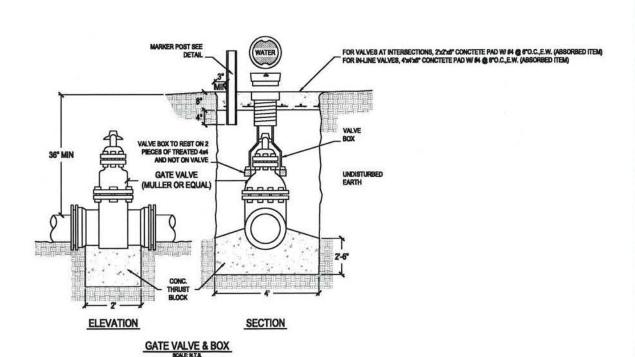
- DEWATERING REQUIRED TO THIS LEVEL (MIN.). THE CONTRACTOR SHALL MAINTAIN WATER LEVEL TO A LEVEL OF 18" OR GREATER BELOW THE UNDERCUT DEPTH OR THE TRENCH SUBGRADE, WHICHEVER IS DEEPER, BEFORE PIPE PLACEMENT WILL BE ALLOWED.
- 2) SEE SPECIFICATIONS FOR COMPACTION REQUIREMENTS



TRENCH DETAIL







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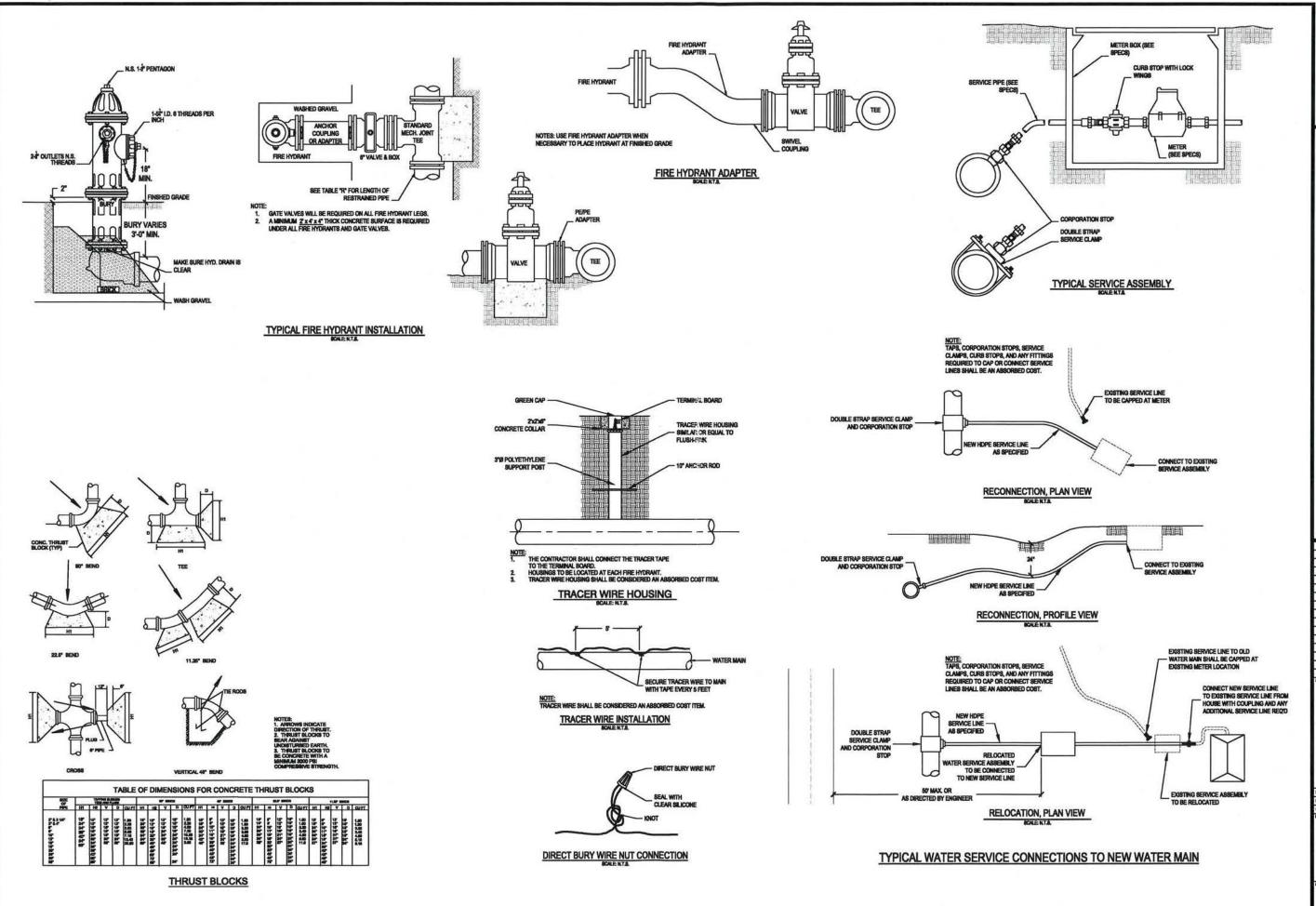
Jackson, MS+Hemando, MS+Gulfport, MS Ruston, LA+New Orleans, LA www.waggonereng.com 1-800-661-3733

# WESTERN WATER SYSTEM IMPROVEMENTS WALTER PAYTON LANE WATER DISTRIBUTION IMPROVEMENTS CITY OF RIDGELAND, MS

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over se	CMS	BONE DATE	March 2011

**Details** 

WD1.0



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1-800-861-3733

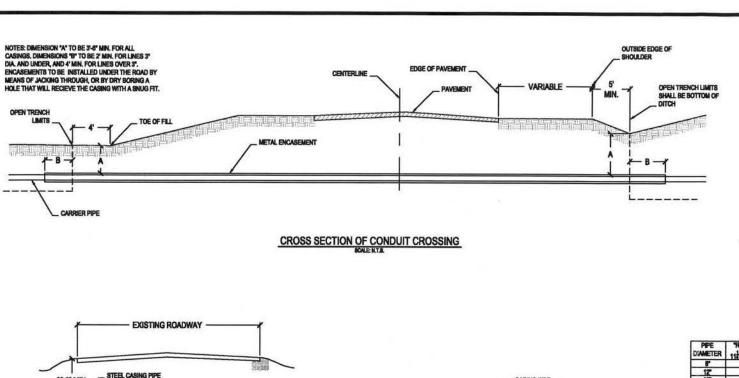
VESTERN WATER SYSTEM IMPROVEMENTS
WALTER PAYTON LANE
WATER DISTRIBUTION IMPROVEMENTS
CITY OF RIDGELAND, MS

	DRAWING REVISION	48
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Water

**Details** 

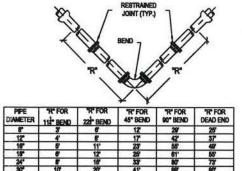
WD2.0



APPROVED STAINLESS STEEL CASING WITH

STREAM CROSSING

PIPE IN CASING END VIEW



- ESSTRAINED JOINT PIPE SHALL BE USED AT ALL BENDS.

  THE LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND SHALL BE NOT LESS THAN THE "R" DISTANCES,
  ALL JOINTS WITHIN THE DISTANCE "R" ESTABLISHED ABOVE SHALL BE RESTRAINED.
  ALL PIPE IN CASINGS SHALL BE RESTRAINED, BUT PIPE LENGTHS IN CASING SHALL NOT APPLY TOWARD REQUIRED
  RESTRAINED LENGTHS FOR ADJACENT BENDS.
  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 - 3.9\*

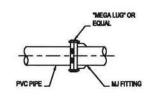
DESIGN PRESSURE - 160 PSI

SAFETY FACTOR - 1.5

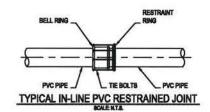
IF ANY OF THESE ASSURE/100 SIGNERCANTLY DIFFER FROM THE LAYING CONDITIONS, NEW THRUST RESTRAINT
CALCULATIONS SHOULD BE PERFORMED.

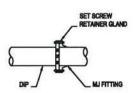
8. FOR BENDS 5: THE VERTICAL PLANE INCREASE THE "R" DISTANCE BY A FACTOR OF 1.75.

## RESTRAINED JOINT DETAL



## TYPICAL PVC RESTRAINED JOINT AT MJ FITTING

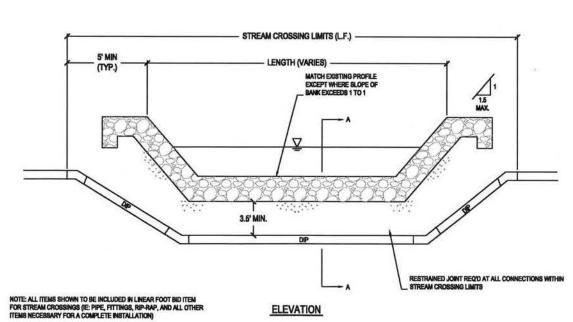




TYPICAL DI RESTRAINED JOINT AT MJ FITTING

TOE OF SLOPE

GEOTEXTILE FABRIC TO BE ANCHORED EVERY 5'



CASING SPACER DETAIL

APPROVED CASING SPACER (TYP.)

2'Ø PIPE (DRAIN)

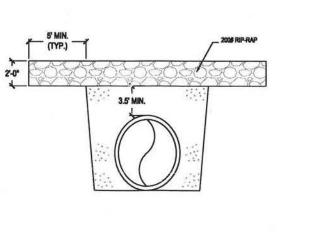
3°-6" MIN.

NOTES

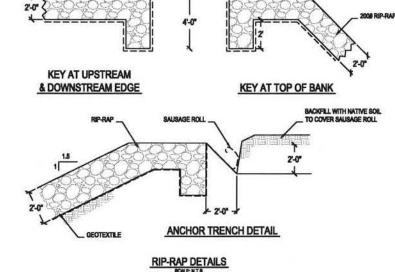
RUBBER ZIPPER MODEL END SEALS REQ'D

SEE PLANS FOR CASING LENGTH

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, PUSH OR PULL THE CARRIER PIPE THROUGH THE CASING SO THAT THE CARRIER JOINTS ARE ALWAYS COMPRESSED.



SECTION A-A



WAGGONER

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SYSTEM IMPROVEMENTS DISTRIBUTION IMPROVEMENTS CITY OF RIDGELAND, MS **PAYTON LANE** WALTER **VESTERN WATER** WATER

DRAWING REVISIONS NO. REMARKS DATE				
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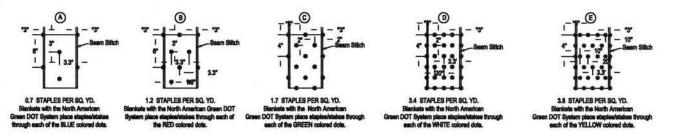
Water **Details** 

WD3.0

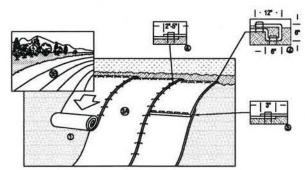
## NOTES

- WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
- GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
- STEEL POST SHALL BE 5-0" IN HEIGHT AND OF THE SELF-FASTENER ANGLE STEEL TYPE. WOOD POST SHALL BE A MINIMUM OF 5-0" IN HEIGHT AND 3" OR MORE IN DIAMETER. WIRE FENCE SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN 8 GAGE WIRE STAPLES "LONG.
- GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATIONS MAY BE USED WITHOUT WIRE FFINCE

## SILT FENCE DETAILS



## DRAINAGE BLANKET STAPLE PATTERN TYPES



NOTE: SEE EROSION CONTROL PLAN

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED, NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLESSTANCE APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLESSTAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLESSTAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLESSTAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

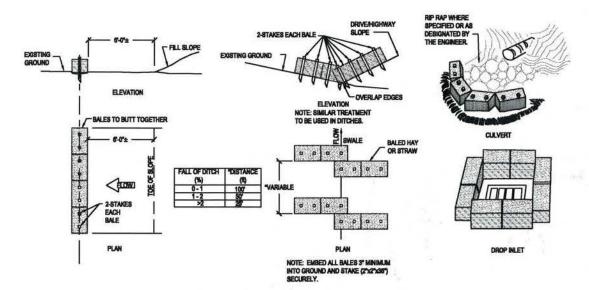
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPPRIDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE \$" (7.5cm) OVERLAP, STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

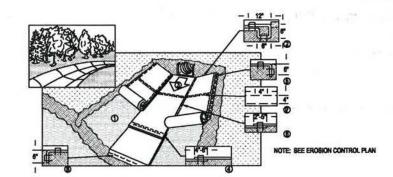
## NOTE

"IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

## NOTE: WATTLES SHALL BE USED IN PLACE OF HAY BALES FOR ALL EROSION CONTROL MEASURES SHOWN BELOW, SEE SHEET WD6.0



## EROSION/SEDIMENTATION CONTROL DETAILS



- PF.ZPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH, BACKFOLL, AND COMPACT THE TRENCH HETER STAPLING APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WOOTH OF THE BLANKET.
- ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE, ALL BLANKETS MILST BE SECURELY FASTENED TO SOIL. SURFACE BY PLACING STAPLESSTAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLESISTAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"4" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.

- FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLESSTREES APPROXIMELY 12" (SIGNI APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFLL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (Som-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
- IN CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
- THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30mm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

CRITICAL POINTS:
A. OVERLAPS AND SEAMS B.
PROJECTED WATER LINE C.
CHANNEL BOTTOM/SIDE SLOPE
VERTICES

\*\* HORIZONTAL STAPLE SPACING SHOULD BE
ALTERED IF NECESSARY TO ALLOW STAPLES TO
OPE SECURE THE CRITICAL POINTS ALONG THE
CHANNEL SURFACE.

\*\*\* NI LOOSE SOL CONDITIONS THE USE OF



"IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY

DRAINAGE BLANKET "CHANNEL" INSTALLATION SCHERTS

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# WESTERN WATER SYSTEM IMPROVEMENTS WALTER PAYTON LANE WATER DISTRIBUTION IMPROVEMENTS CITY OF RIDGELAND, MS

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Water Details

WD5.0