

RICE ROAD TRAILHEAD IMPROVEMENTS

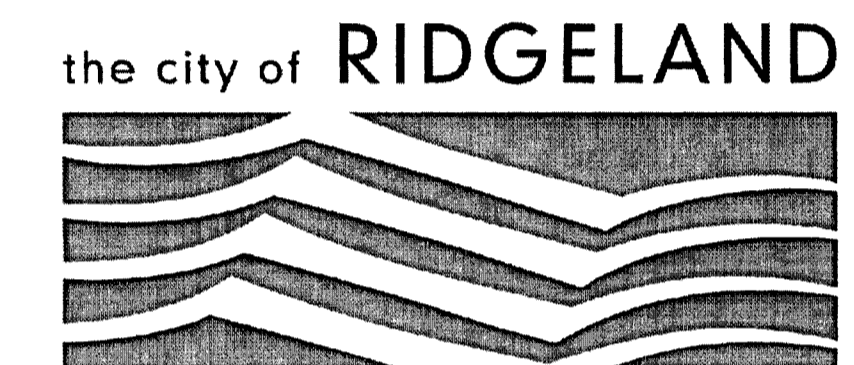
City of Ridgeland, Mississippi

WEI# C011-066



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RICE ROAD TRAILHEAD IMPROVEMENTS
CITY OF RIDGELAND, MS
WEI# C011-066



OWNER INFORMATION

MAYOR:
GENE F. MCGEE

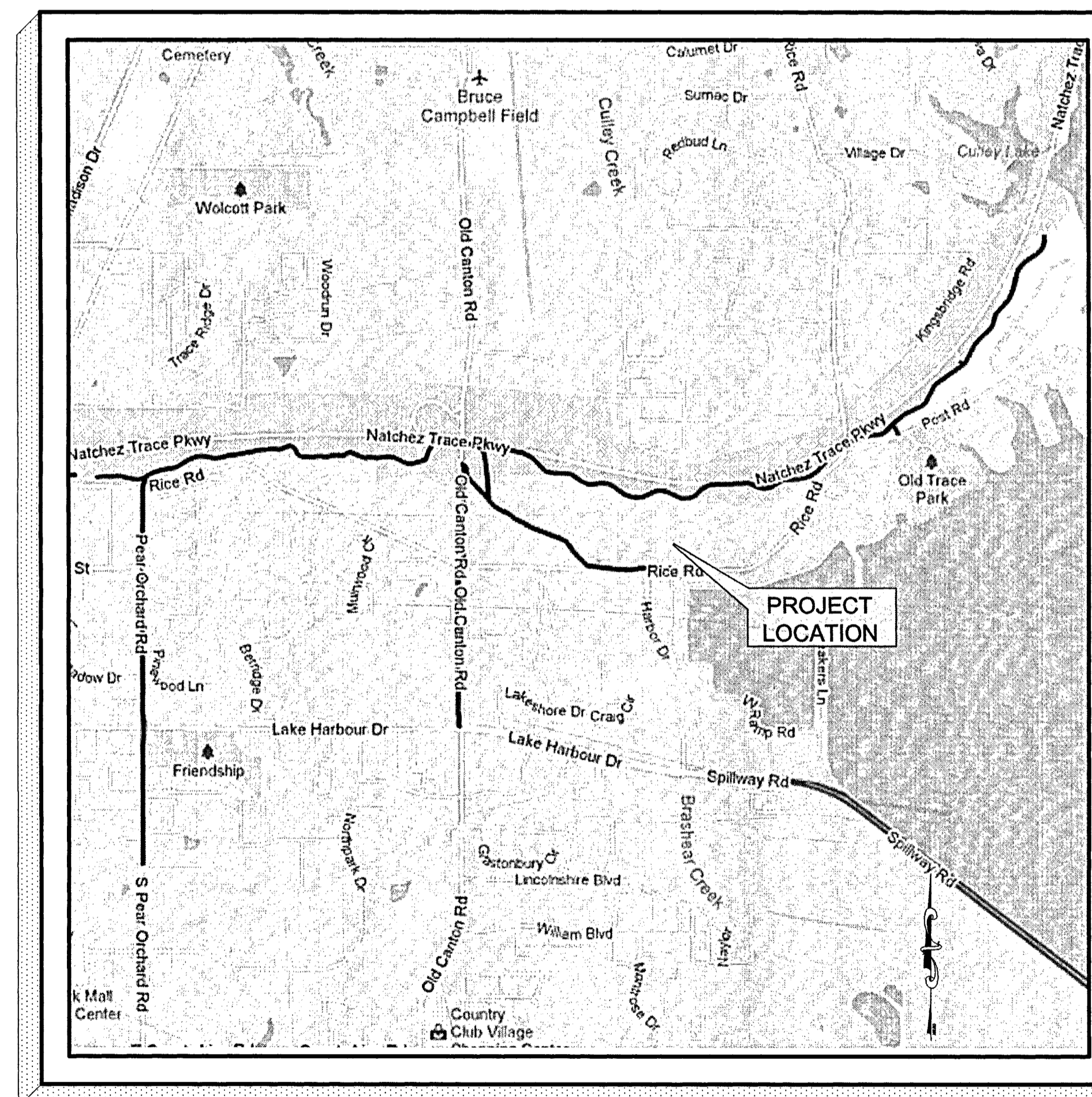
PUBLIC WORKS DIRECTOR:
JOHN M. MCCOLLUM

CITY ENGINEER:
DAVID E. WILLIAMS, P.E.

BOARD OF ALDERMAN:
KEN HEARD - WARD 1
CHUCK GAUTIER - WARD 2
KEVIN HOLDER - WARD 3
BRIAN RAMSEY - WARD 4
SCOTT JONES - WARD 5
WESLEY HAMLIN - WARD 6
D.I. SMITH - AT LARGE

CONTACT INFORMATION:
CITY OF RIDGELAND, MS
304 HIGHWAY 51
RIDGELAND, MS 39157
PHONE: 601.856.2027

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VICINITY MAP
N.T.S.

MARCH 2012

DESIGN LOADS PER 2006 IBC

Dead Loads - Weight of building materials and fixed service equipment

Live Loads

Roof - 20 psf, uniform- for roofs w/ slopes less than 4:12
16 psf, uniform- for roofs w/ slopes greater than 4:12 and less than 12:12
250 lbs., concentrated (non-cumulative)
Floor - 100 psf, uniform

Snow Load

Ground Snow Load, Pg - 5 psf
Snow Exposure Factor, Ce - .7
Snow Load Importance Factor, I - 1.0

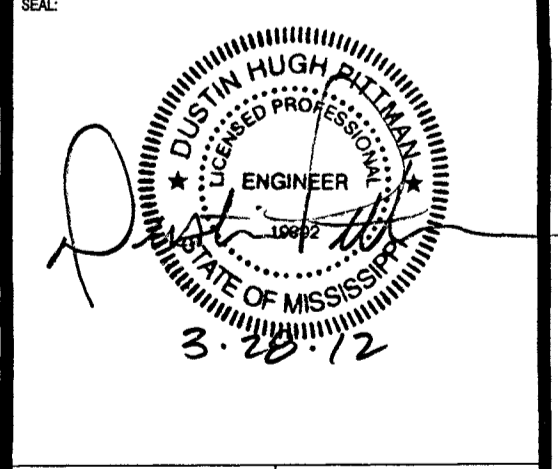
Wind Load

Basic Wind Speed - 90 mph
Basic Velocity Pressure, qs - 20.7 psf
Wind Load Importance Factor, I - 1.0
Wind Exposure - B

Earthquake Design Data

Seismic Use Group - I
Site Class - D
Spectral Response Coefficient, SDS - .2400
Spectral Response Coefficient, SD1 - .1440
Basic Seismic Force Resisting System - Load-bearing/Shear Wall Frame System
Response Modification Factor, R - 4.5

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY:	DHF	SCALE:	As Shown
DESIGNED BY:	DHF	DATE:	MARCH 2012
CHECKED BY:	BWN	PROJECT:	C011066
DRAWING TITLE:			

COVER SHEET

SHEET NUMBER
G1.1

RICE ROAD TRAILHEAD IMPROVEMENTS
CITY OF RIDGELAND, MS
WEI# C011-066

LEGEND

— FOC —	FIBER OPTIC CABLE
— GAS —	UNDERGROUND GAS LINE
— OHP —	OVERHEAD POWER LINE
— TRANSMISSION LINE —	TRANSMISSION LINE
— SS — SS —	SANITARY SEWER LINE
x	LOCATION OF GROUND SHOT

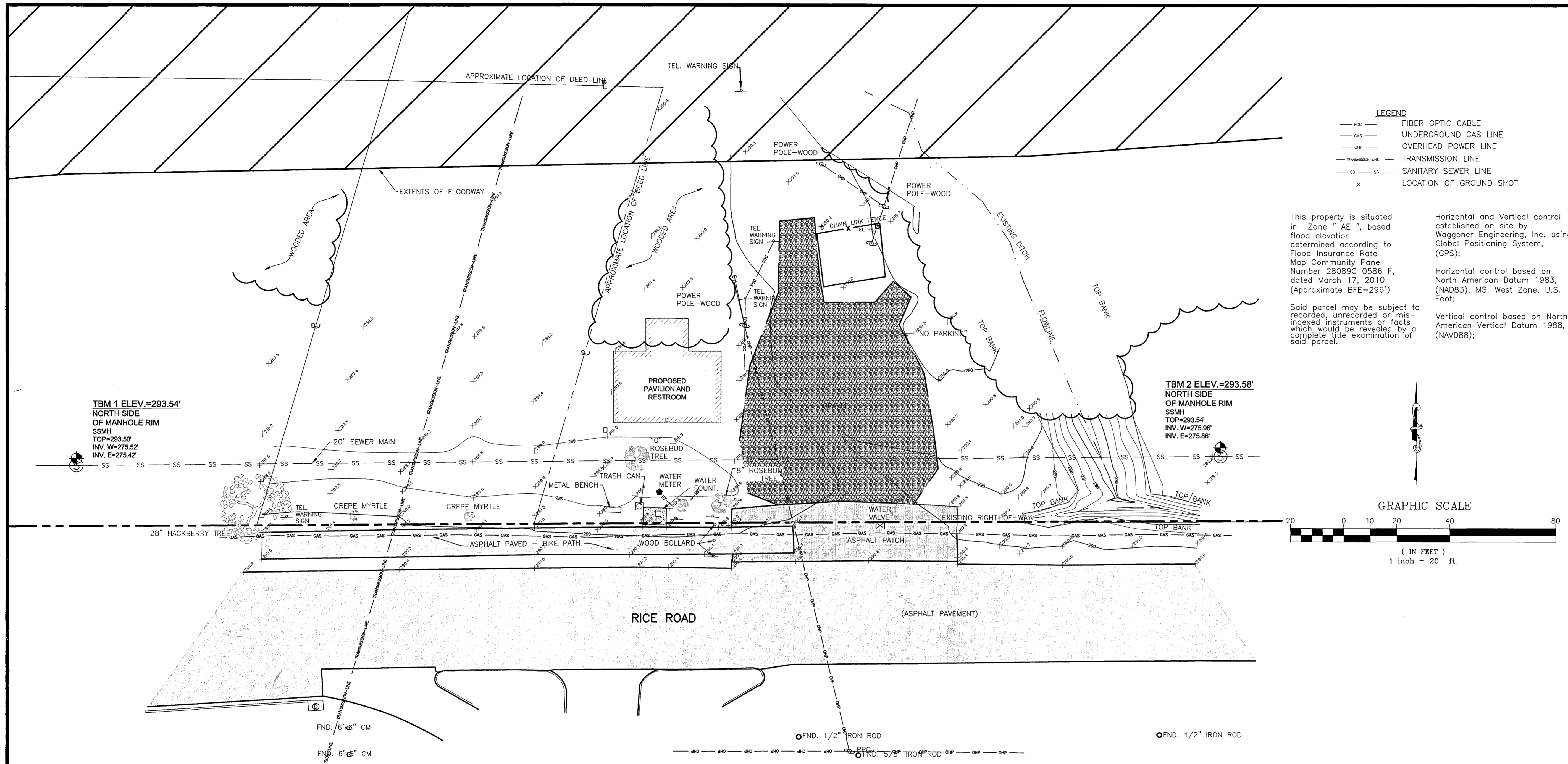
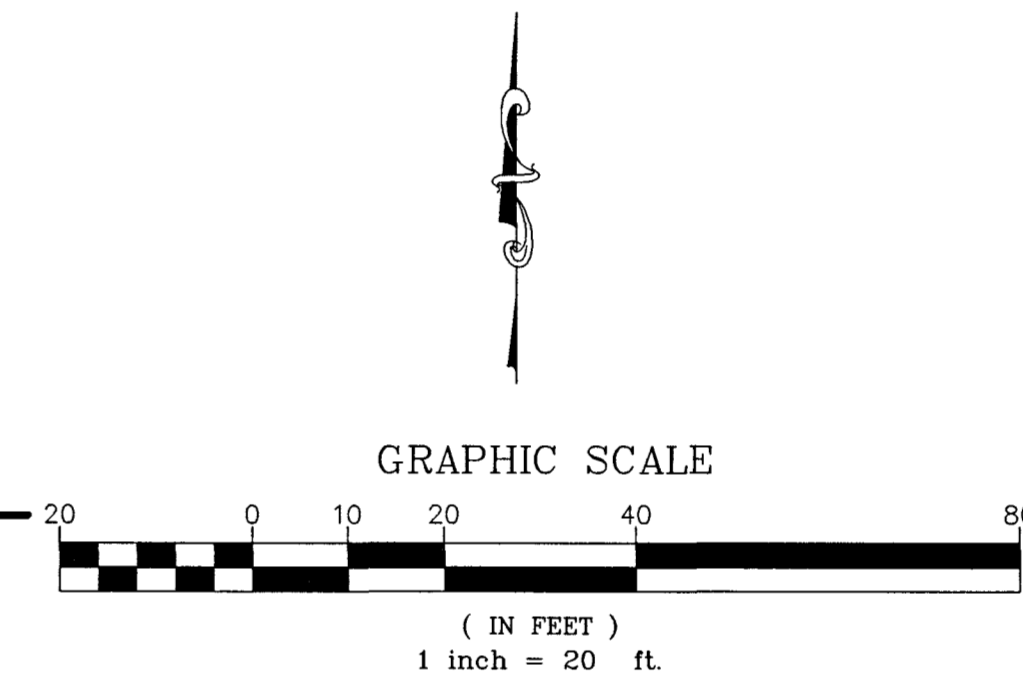
This property is situated in Zone "AE", based flood elevation determined according to Flood Insurance Rate Map Community Panel Number 28089C 0586 F, dated March 17, 2010 (Approximate BFE=296')

Horizontal and Vertical control established on site by Waggoner Engineering, Inc. using Global Positioning System, (GPS);

Horizontal control based on North American Datum 1983, (NAD83), MS, West Zone, U.S. Foot;

Said parcel may be subject to recorded, unrecorded or mis-indexed instruments or facts which would be revealed by a complete title examination of said parcel.

Vertical control based on North American Vertical Datum 1988, (NAVD88);



EROSION CONTROL NOTES

- PROVISIONS TO PREVENT EROSION OF SOIL FROM SITE SHALL BE, AT MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY, BEST MANAGEMENT PRACTICES MANUAL.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- CONTRACTOR SHALL ESTABLISH A VEGETATIVE COVER ON ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF WORK IN THE ASSOCIATED AREA SUCH THAT EROSION OF DISTURBED SURFACES IS MINIMIZED.
- EROSION CONTROL BLANKETS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE EROSION CONTROL DETAILS.
- ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION AND TEMPORARY SEDIMENT BASIN FACILITIES, IF REQUIRED, ARE CONSTRUCTED.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL INSURE MEASURES ARE FUNCTIONING PROPERLY.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING (COST ABSORBED).
- TYPE A EROSION CONTROL BLANKETS SHALL BE PLACED ON ALL CUT AND FILL SLOPES 3:1 AND GREATER.
- CONTRACTOR SHALL EXTEND EROSION CONTROL BLANKET 10' MIN BEYOND THE TOE OF ALL PROPOSED 3:1 SLOPES.

TRAFFIC CONTROL NOTES

- ALL SIGNS SHALL HAVE DG3 SHEETING, AND CONFORM TO THE LATEST EDITION OF THE MUTCD.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL CONSTRUCTION WORK ZONES ARE IN COMPLIANCE WITH THE LATEST EDITION OF THE MUTCD.
- IN ADDITION TO THE SIGNAGE SHOWN, THE CONTRACTOR SHALL USE ALL NECESSARY DEVICES FOR UTILIZING STANDARD CONSTRUCTION WORK ZONES.
- CONTRACTOR SHALL USE A FLAGMAN DURING OPERATIONS THAT REQUIRE LANE CLOSURE OR ENCROACH THE ESTABLISHED TRAVEL WAY. CONTRACTOR SHALL FOLLOW ALL GUIDELINES SET FORTH BY MDT AND MUTCD TO INSURE PROPER TRAFFIC FLOW AND SAFETY TO ALL PARTIES INVOLVED.
- CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AND THE EXISTING WELL BUILDING THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL CONSTRUCT THIS SITE UNDER TRAFFIC. CLOSURE OF ONE LANE SHALL BE PERMITTED ON RICE ROAD ONLY DURING OFF PEAK HOURS (9:00 A.M. - 4:00 P.M.), AS IT CONFORMS TO MDT STANDARD DRAWINGS.
- CONTRACTOR IS RESPONSIBLE TO UTILIZE TYPE II BARRICADES TO TEMPORARILY CLOSE PARKING AREAS AS REQUIRED FOR CONSTRUCTION ACCESS. PARKING AREA CLOSURES SHALL BE LIMITED TO THE MINIMUM SIZE AND DURATION REQUIRED FOR ACCESS.

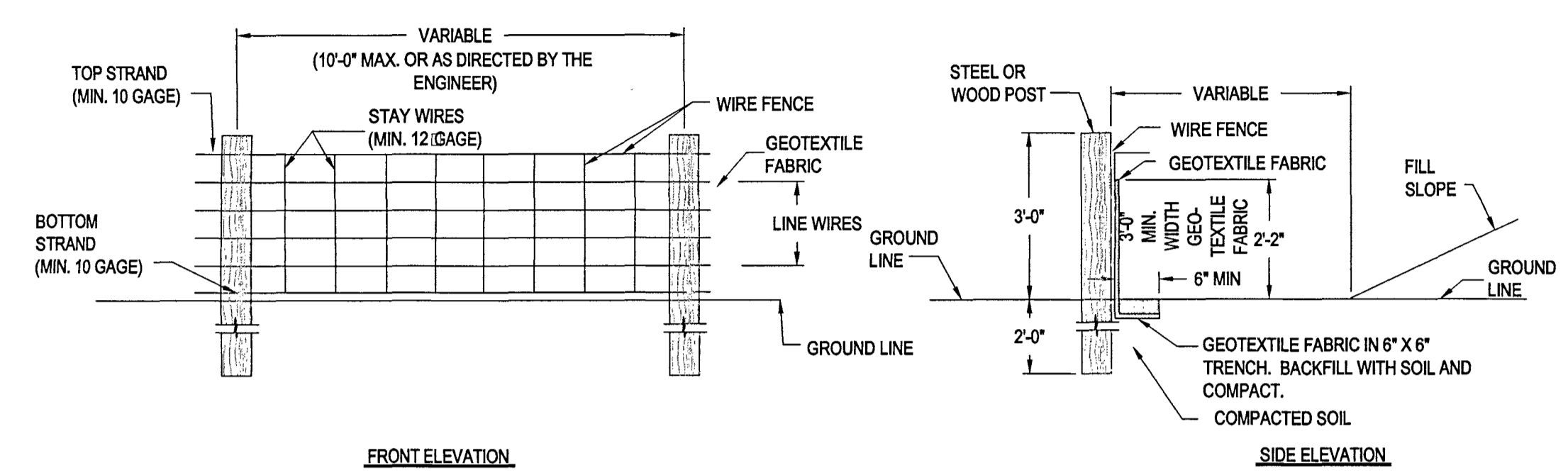
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NO.	REMARKS	DATE

DESIGNED BY: DHP	SCALE: As Shown
CHECKED BY: BRN	DATE: MARCH 2012
DRAWING TITLE:	PROJECT: C011066

**Existing Conditions,
 Erosion & Traffic
 Control Notes**

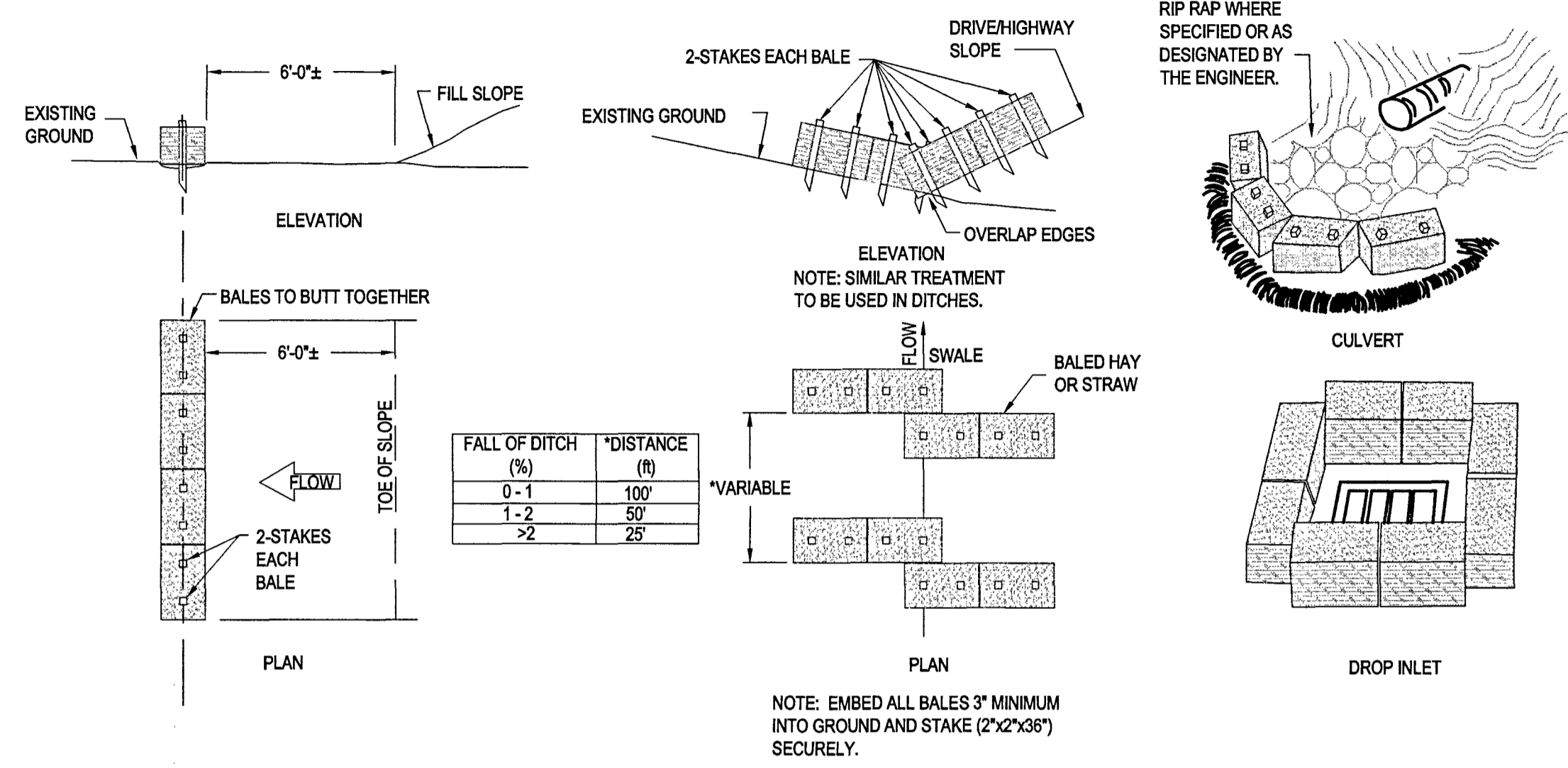
RICE ROAD TRAILHEAD IMPROVEMENTS
CITY OF RIDGELAND, MS
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NOTE: WATTLES SHALL BE USED IN PLACE OF HAY BALES FOR ALL EROSION CONTROL MEASURES SHOWN BELOW, SEE SHEET SD2.2

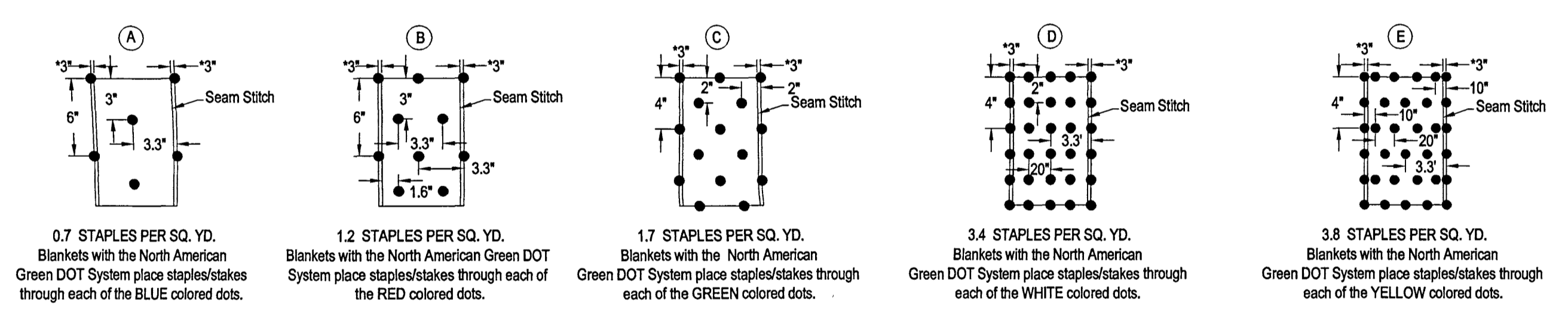


- NOTES:
1. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 2. GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
 3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND OF THE SELF-FASTENER 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 9 GAGE WIRE STAPLES 1" LONG.
 4. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATIONS MAY BE USED WITHOUT WIRE FENCE.

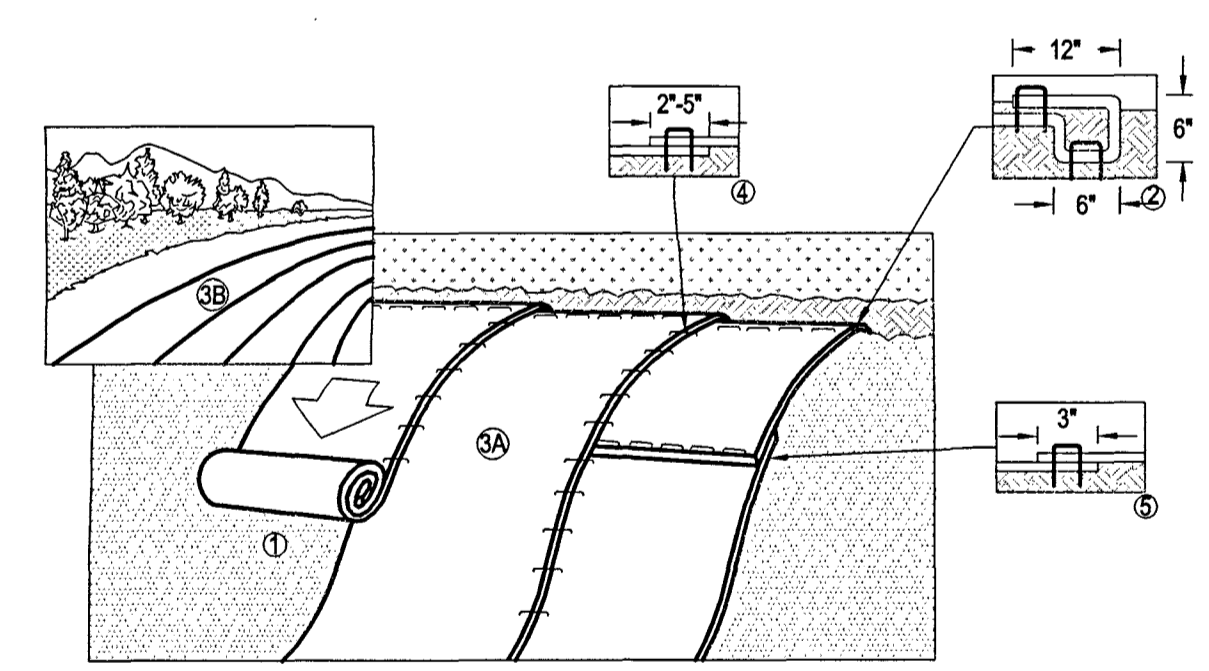
SILT FENCE DETAILS
 SCALE: N.T.S.



EROSION/SEDIMENTATION CONTROL DETAILS
 SCALE: N.T.S.

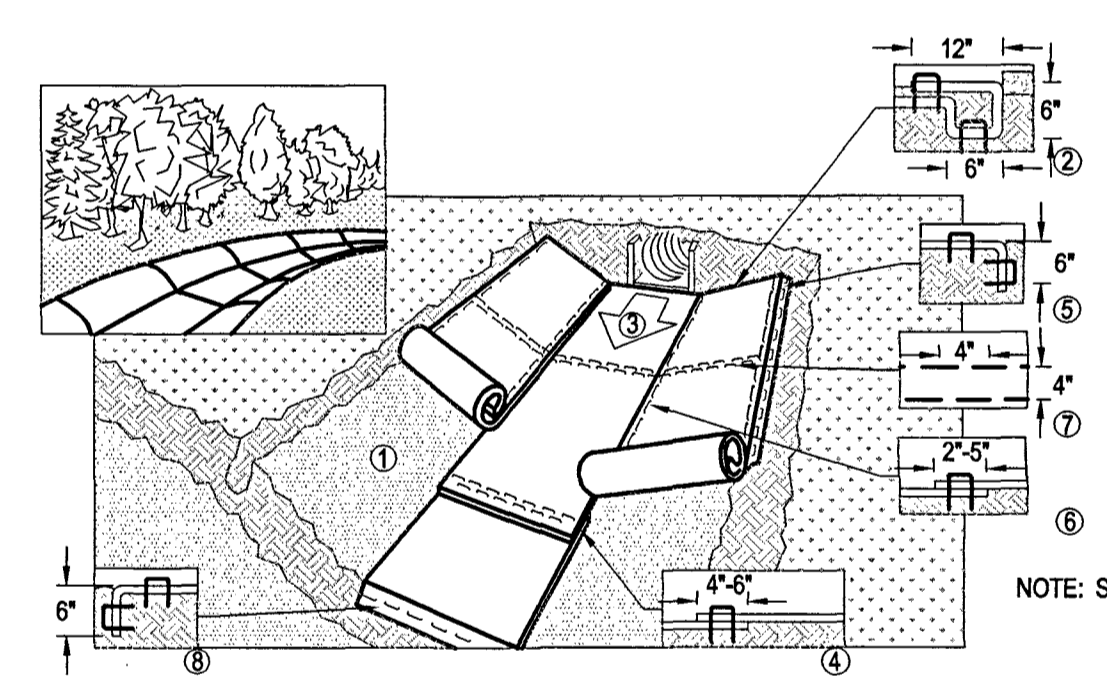


DRAINAGE BLANKET STAPLE PATTERN TYPES
 SCALE: N.T.S.



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 SIDE DOWN.
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 STAPLES/STAKES 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 STAPLES/STAKES 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 STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES 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 DEPENDING 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 SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

DRAINAGE BLANKET "SLOPE" INSTALLATION
 SCALE: N.T.S.



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 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. 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 STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4'-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2'-5" (5cm-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.
7. 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.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) 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

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

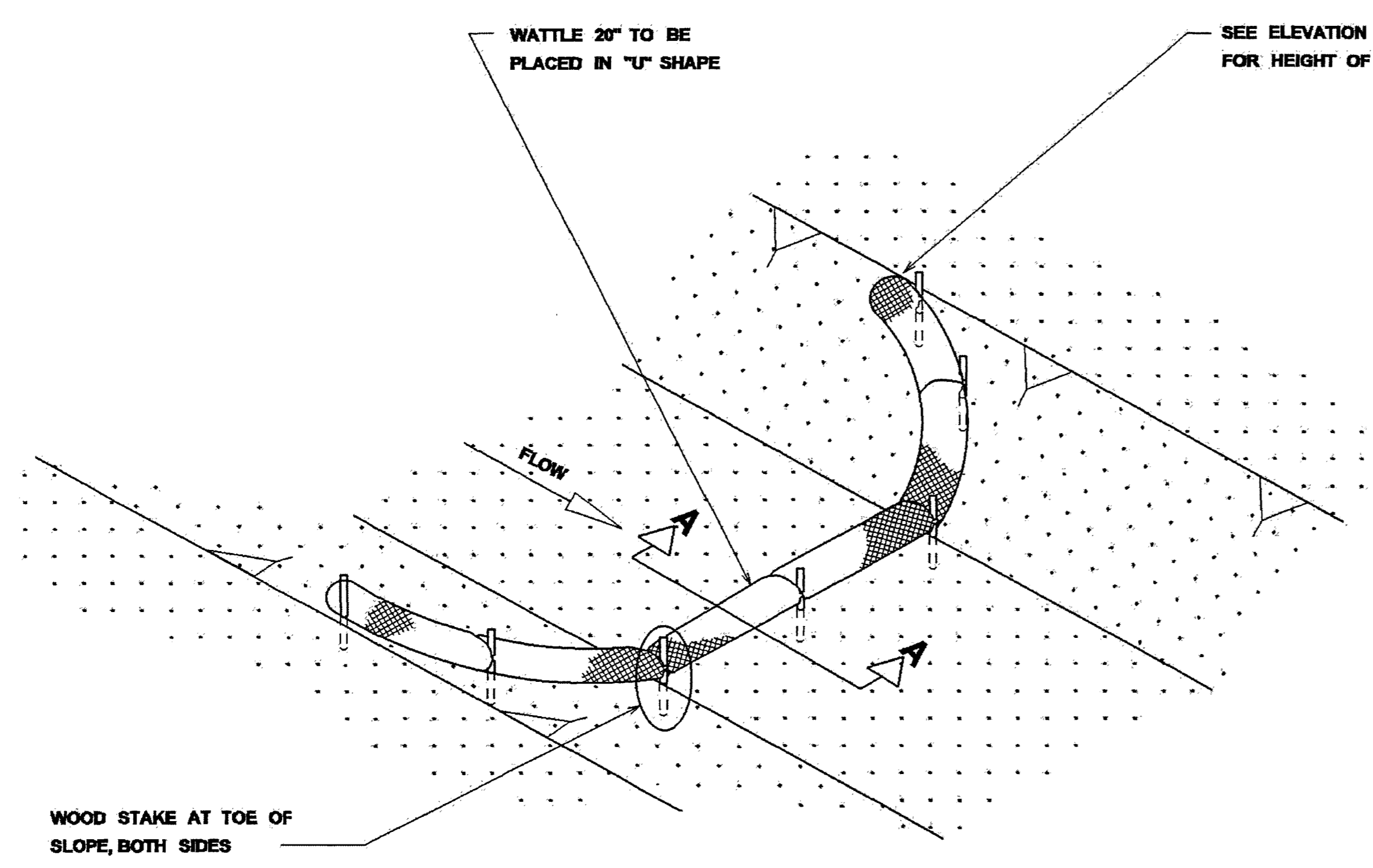
** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

DRAINAGE BLANKET "CHANNEL" INSTALLATION
 SCALE: N.T.S.

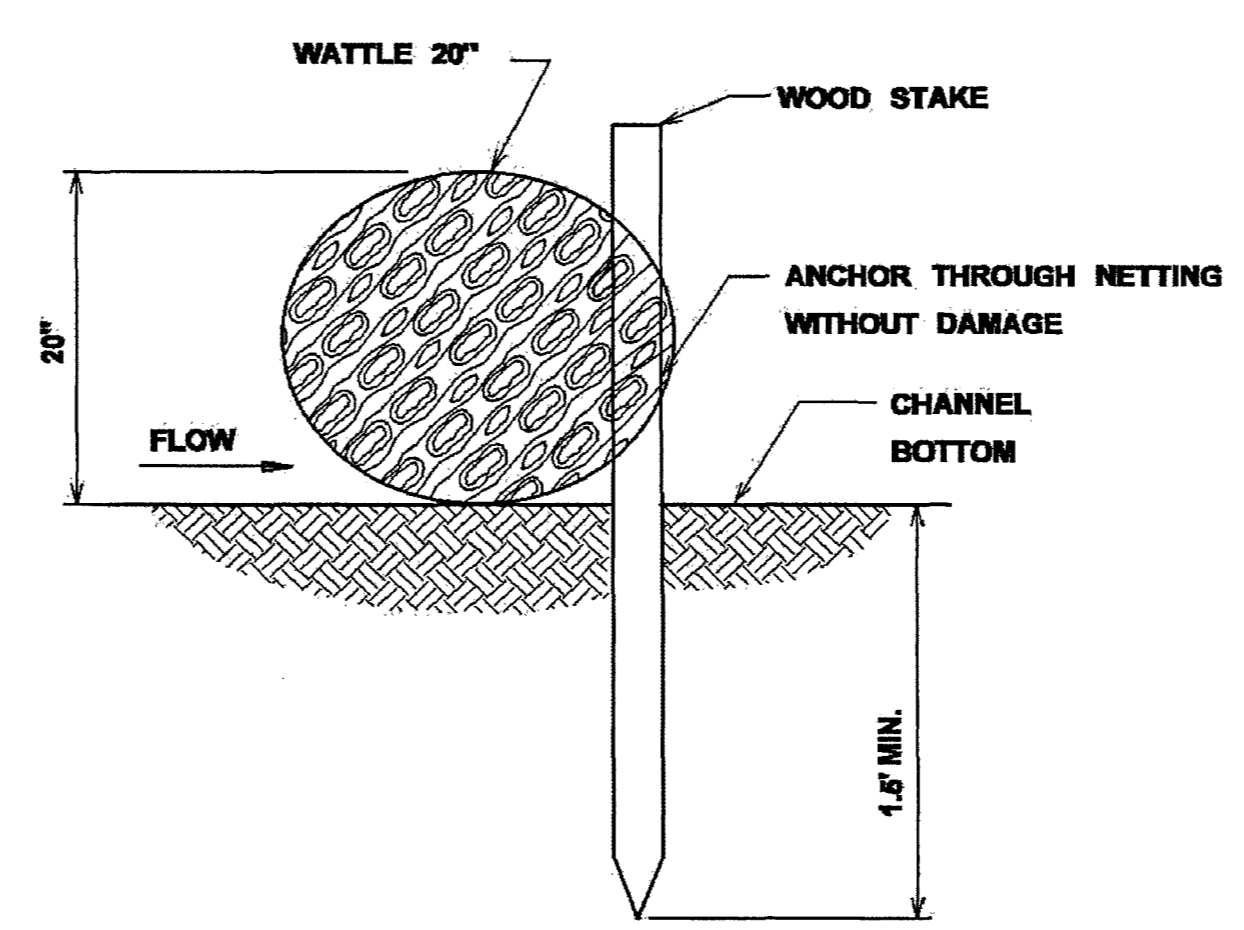
DRAWING REVISIONS		
NO.	REMARKS	DATE

DRAWN BY: DHP	SCALE: As Shown
DESIGNED BY: DHP	DATE: MARCH 2012
CHECKED BY: BWN	PROJECT: C011066
DRAWING TITLE: EROSION CONTROL DETAILS	

RICE ROAD TRAILHEAD IMPROVEMENTS
 CITY OF RIDGELAND, MS
 WE# C011-066

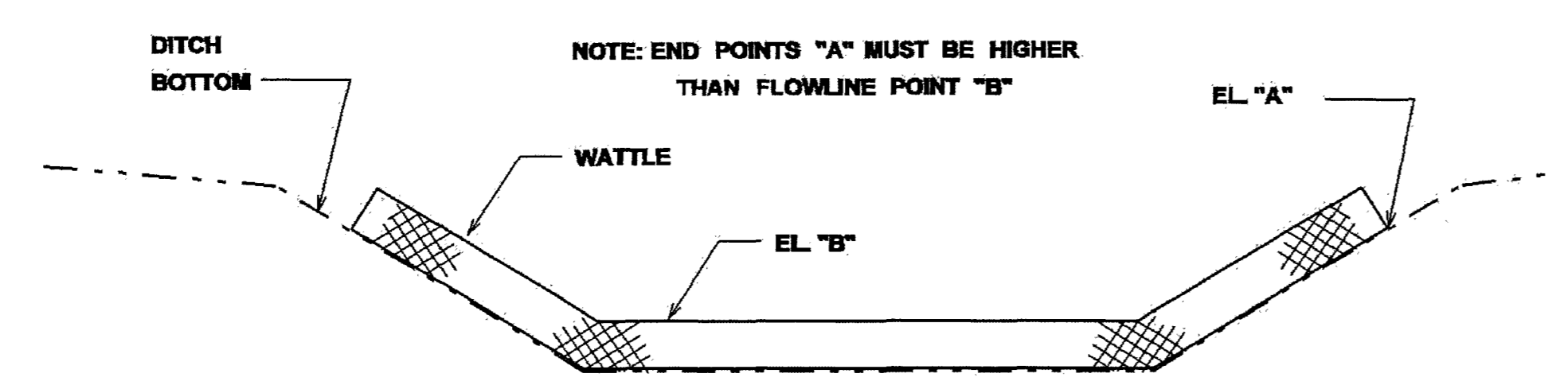


DETAIL (DITCH CHECK)



SECTION A-A

- NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4
 2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
 3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
 4. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.



ELEVATION DETAIL

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.

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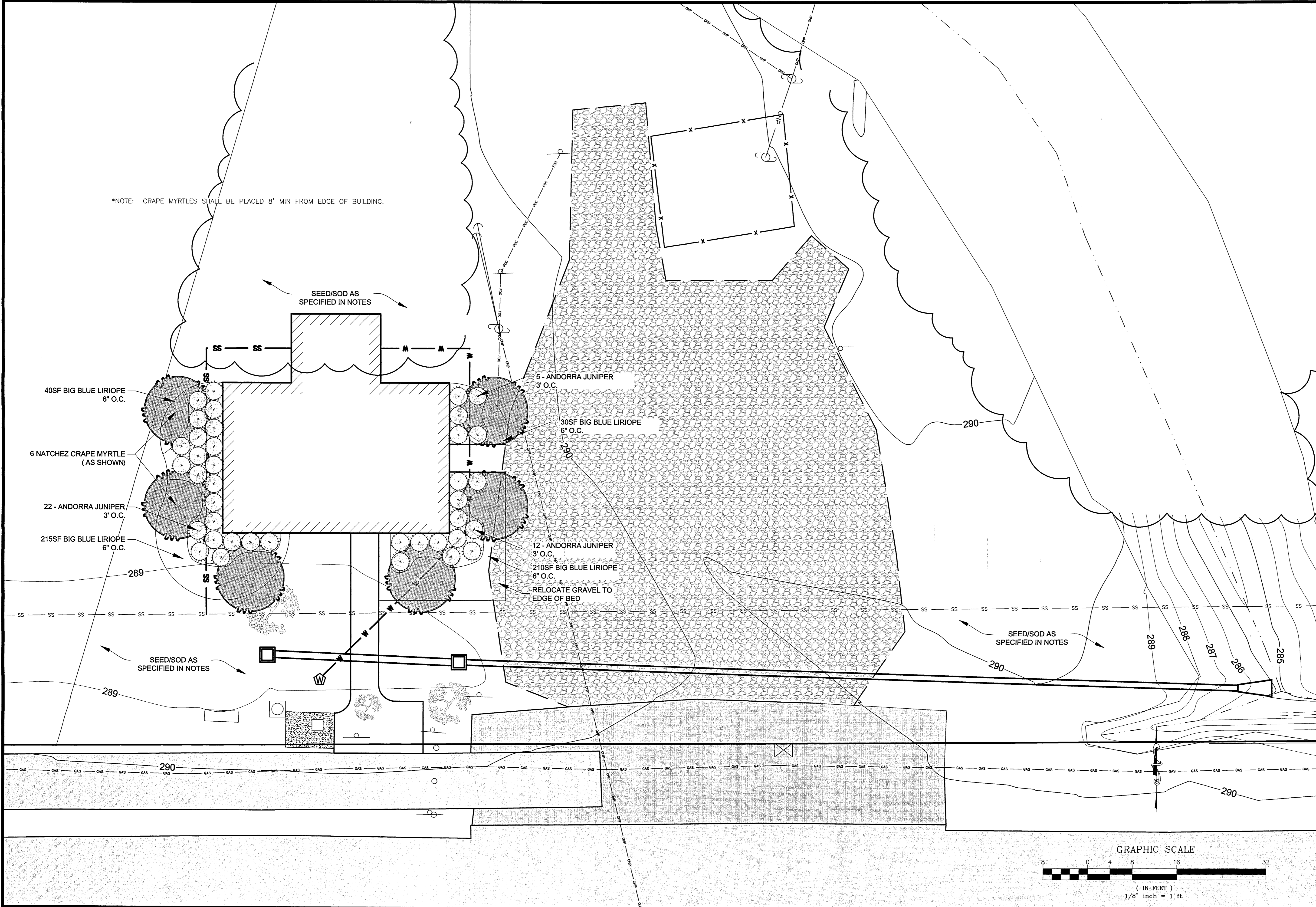
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DRAWING TITLE:	

EROSION CONTROL DETAILS

SHEET NUMBER
SD2.2

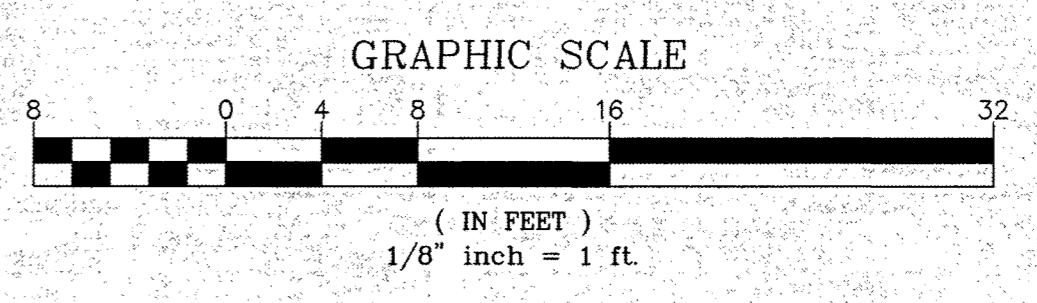
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*NOTE: CRAPE MYRTLES SHALL BE PLACED 8" MIN FROM EDGE OF BUILDING.



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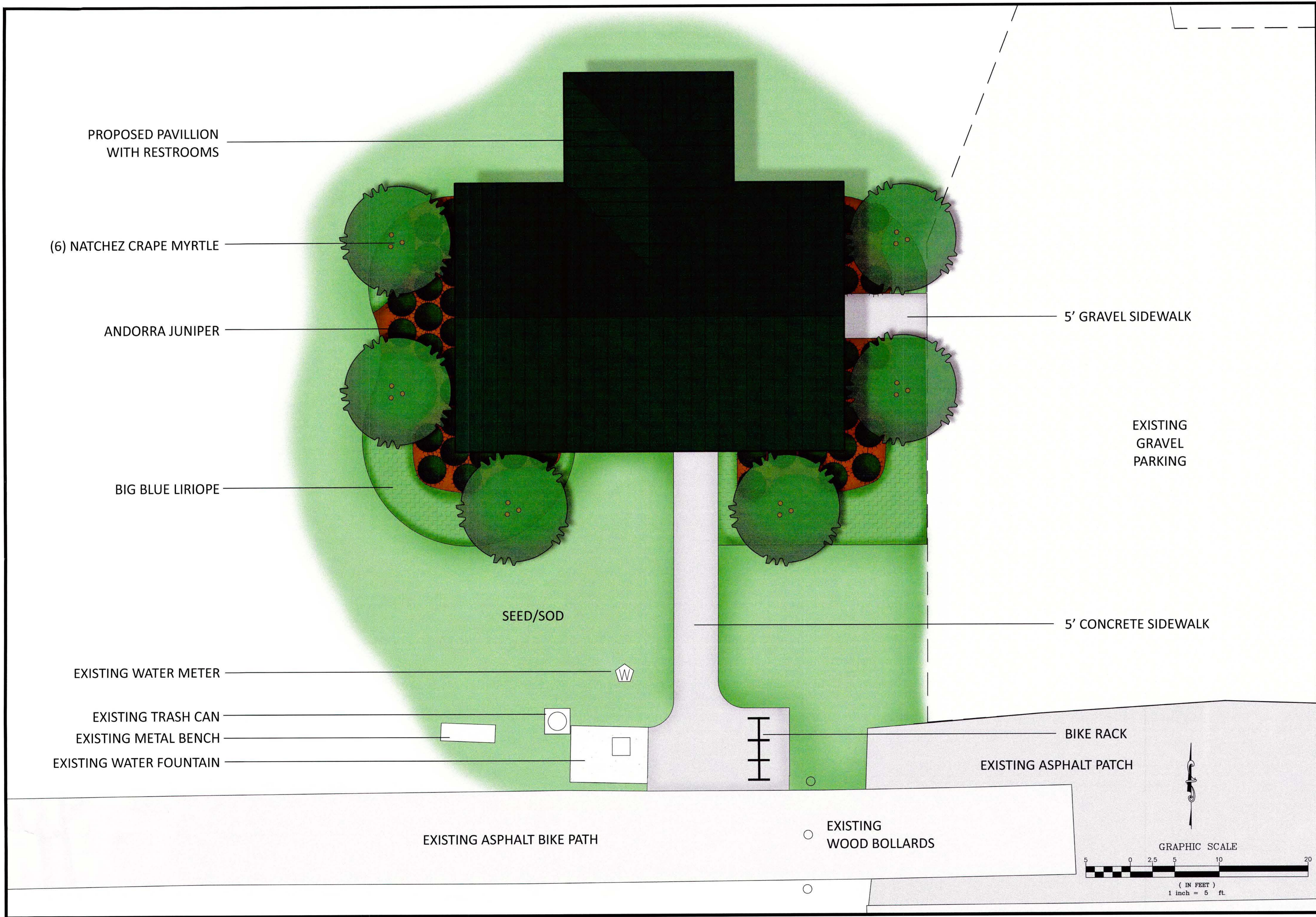
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LANDSCAPE PLAN

SHEET NUMBER
L1.1

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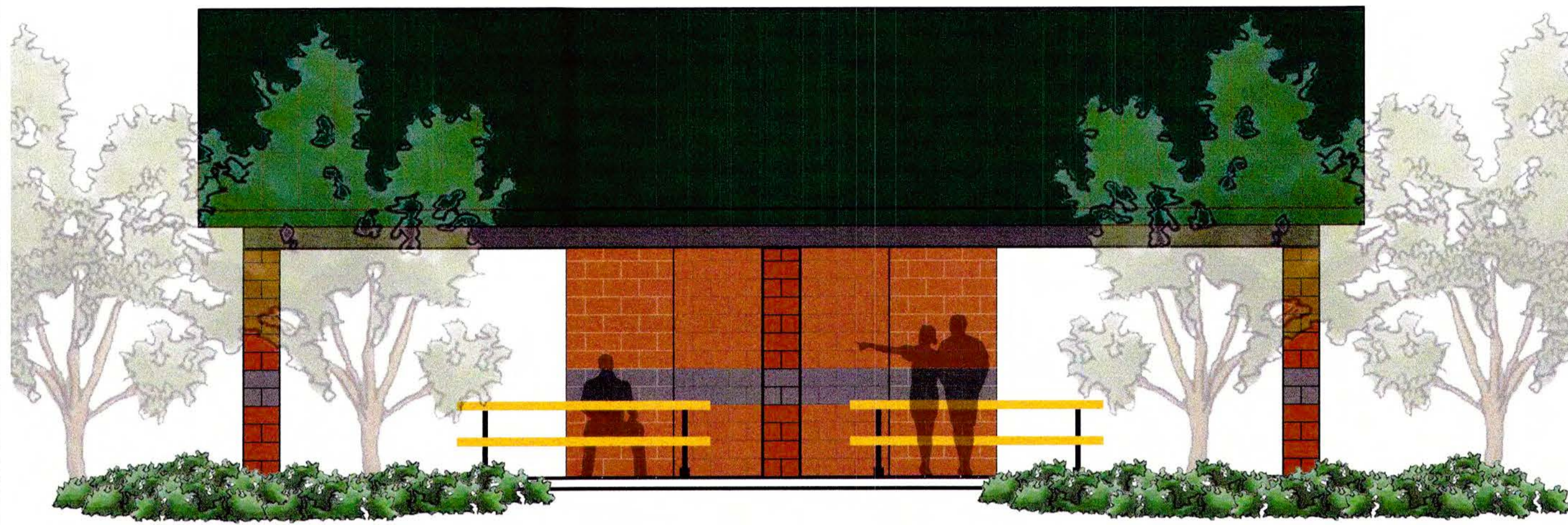
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DRAWING TITLE:			

ARCHITECTURAL RENDERING
 SHEET NUMBER

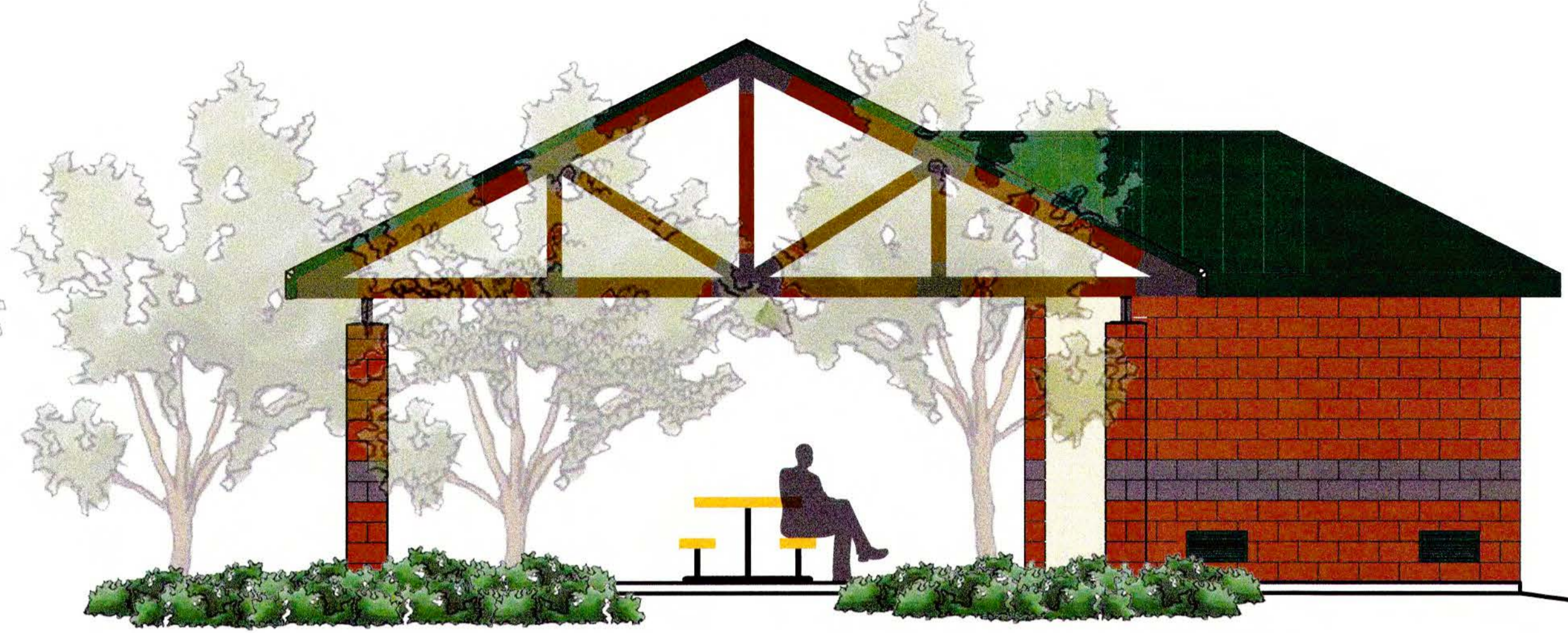


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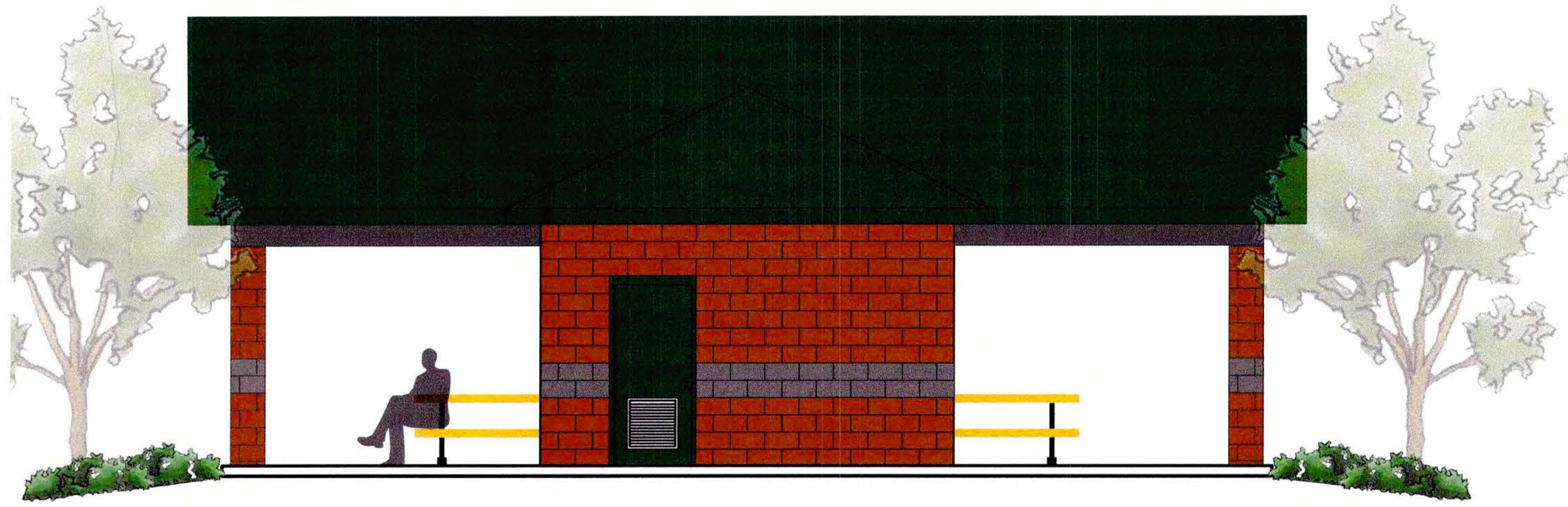
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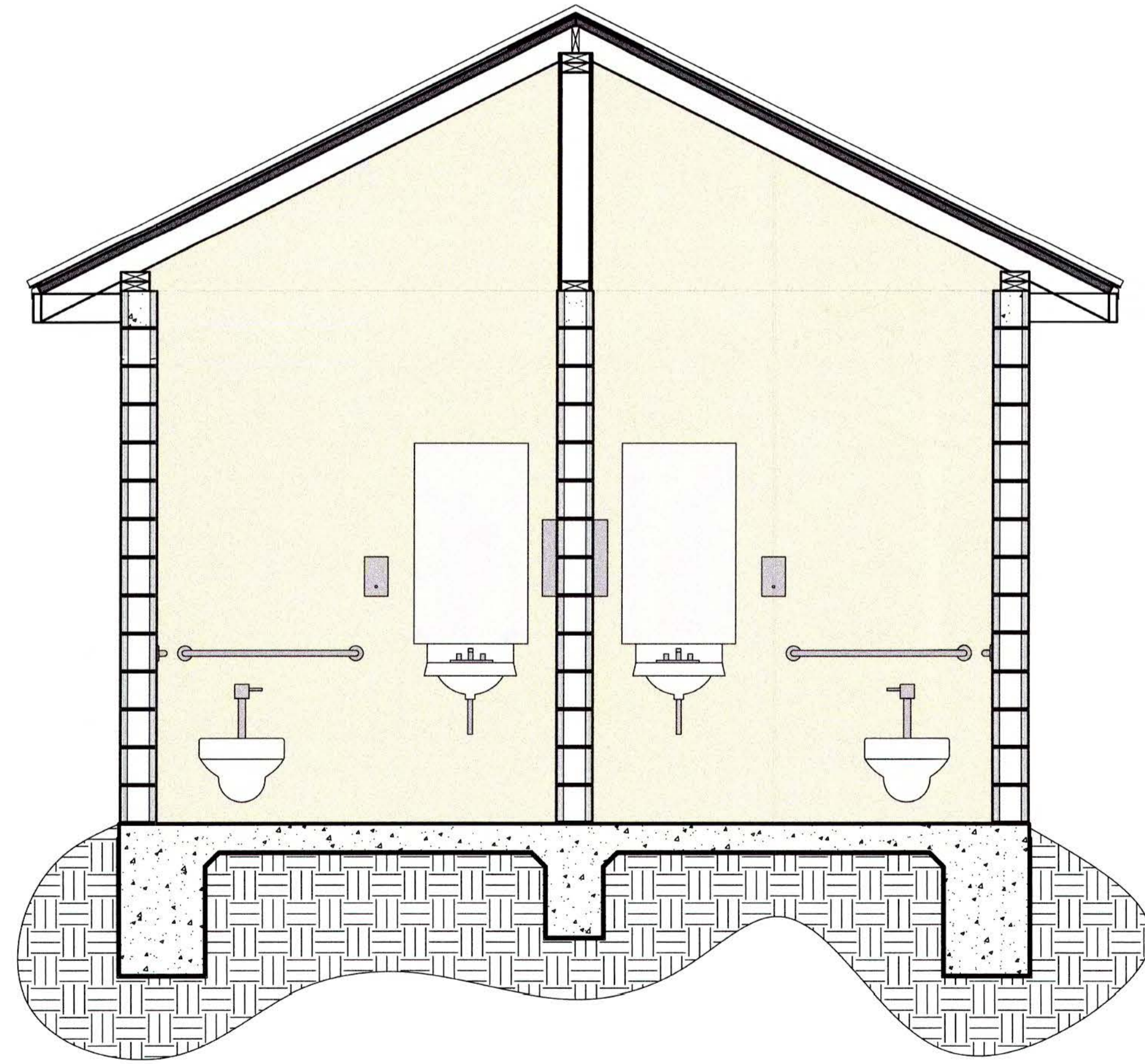
FRONT ELEVATION
 SCALE: 1/4" = 1'



SIDE ELEVATION
 SCALE: 1/4" = 1'



REAR ELEVATION
 SCALE: 1/4" = 1'



SECTION 1 - A 1.1
 SCALE: 1/2" = 1'

NOTE: FINAL COLOR OF ARCHITECTURAL FINISHES TO BE REVIEWED AND APPROVED BY OWNER FROM FULL COLOR PALETTE AS PROVIDED BY MANUFACTURER.

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