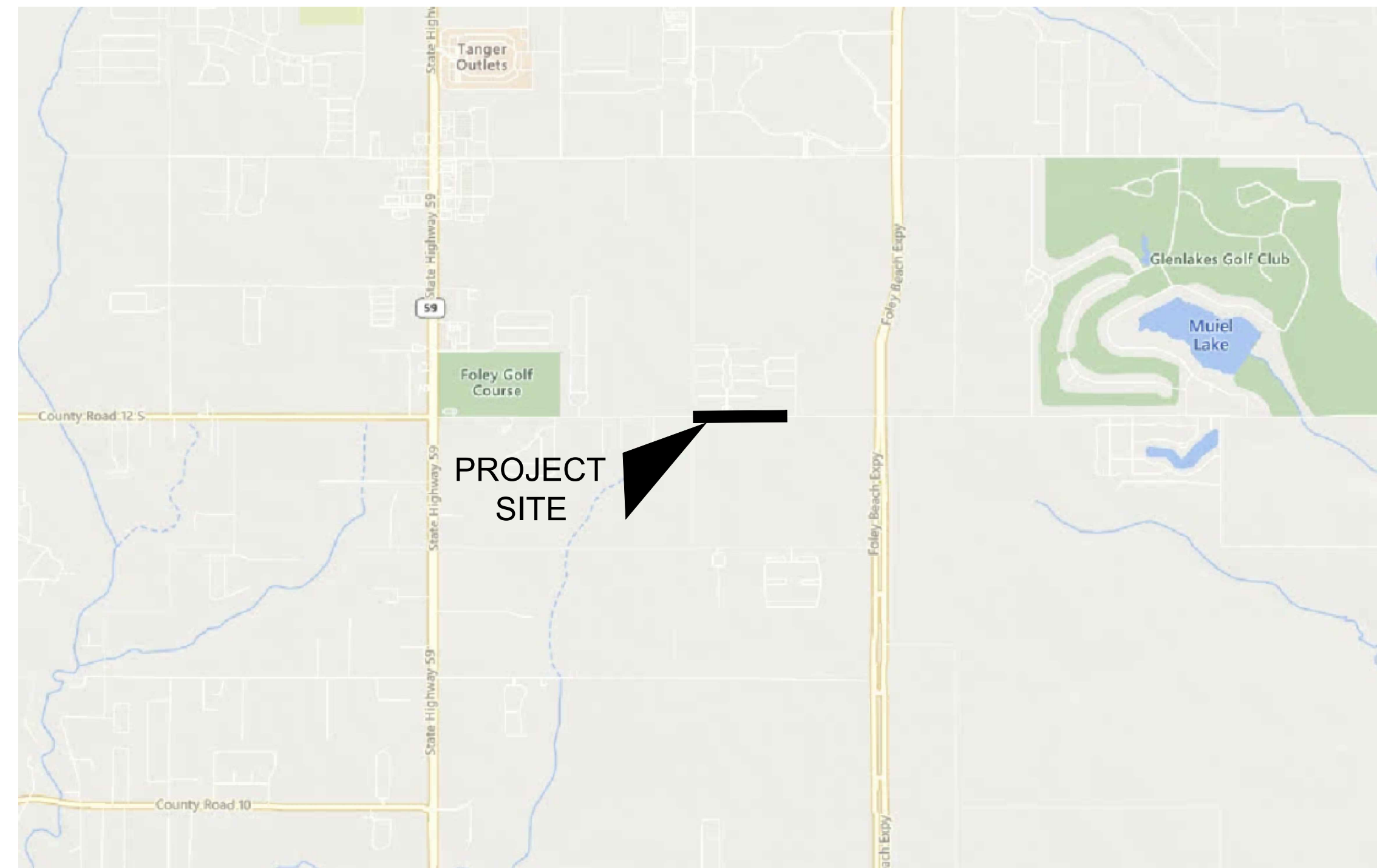


CIVIL CONSTRUCTION DOCUMENTS FOR C.R. 12 STORM DRAIN REPLACEMENT

CITY OF FOLEY
FOLEY, ALABAMA

CITY OF FOLEY
MAYOR RALPH HELLMICH
COUNCIL PRESIDENT J. WAYNE TRAWICK, DISTRICT 1
VERA QUAITES, DISTRICT 2
RICHARD DAYTON, DISTRICT 3
C. RICK BLACKWELL, DISTRICT 4
CHARLES J. EBERT, III, DISTRICT 5



VICINITY MAP
N.T.S.

Sheet Number	Sheet Title
C0.1	COVER SHEET
C0.2	GENERAL NOTES
C1.0	DEMOLITION PLAN
C2.0	GRADING AND DRAINAGE PLAN
C2.1	STORM PROFILES
C3.0	EROSION CONTROL PLAN
C4.0	PROJECT DETAILS

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CONTACT: CHAD CHRISTIAN P.E.

CIVIL ENGINEER
ENGINEERING DESIGN GROUP, LLC
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FOLEY, AL 36535
(251) 0943 - 8960
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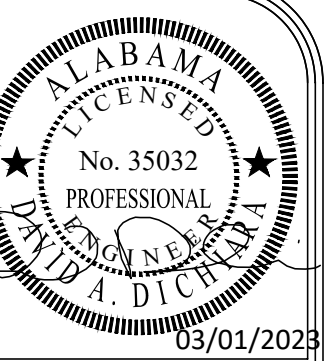
PROJECT ADDRESS:
CITY OF FOLEY
FOLEY, ALABAMA

SHEET TITLE:
COVER SHEET

PROJECT NAME:
C.R. 12 STORM
DRAIN
REPLACEMENT

DRAWN BY:
CAW
CHECKED BY:
DAD
PROJECT No.:
F_FOLE0010
DATE:
March 1, 2023

SHEET NO.
C0.1



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ISSUE FOR BID-03/01/2023
 REVISIONS

PROJECT ADDRESS:
 CITY OF FOLEY
 FOLEY, ALABAMA

SHEET TITLE:
 GENERAL NOTES

PROJECT NAME:
 C.R. 12 STORM DRAIN
 REPLACEMENT

DRAWN BY:
 CAW
 CHECKED BY:
 DAD
 PROJECT No.:
 F_FOLEO010
 DATE:
 March 1, 2023

SHEET NO.
 C0.2

GENERAL NOTES:

- ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
- ALL CONSTRUCTION SHOWN ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS FOR THIS PROJECT AND SHALL CONFORM TO ALL CODES, ORDINANCES, RESTRICTIONS, AND STANDARDS OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THE SITE. CONTRACTOR WILL ONLY PERFORM CONSTRUCTION ACTIVITIES BASED ON PLANS WHICH HAVE BEEN PROPERLY ISSUED FOR CONSTRUCTION PURPOSES.
- ALL TRENCHES EXCAVATED UNDER PAVEMENT SHALL BE BACKFILLED WITH STONE.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION, ADJUSTMENT OR RELOCATION OF ALL UTILITIES WITH THE APPROPRIATE UTILITY COMPANIES AND HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, ETC.) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND BENCHMARKS. ALL PROPERTY PINS OR BENCHMARKS ELIMINATED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES. EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- JOB SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE LIMITS OF DISTURBANCE SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE. ANY DAMAGE CAUSED BY CONSTRUCTION SHALL BE REPAIRED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- IN THE EVENT THAT A CONFLICT ARISES BETWEEN THE SITE CONSTRUCTION DRAWINGS, BID ITEMS AND/OR AND FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH CONSTRUCTION OF ANY AREA WHERE A CONFLICT HAS BEEN DISCOVERED UNTIL SUCH TIME AS THE CONFLICT HAS BEEN CLEARLY RESOLVED.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PROTECTIVE DEVICES, TRAFFIC CONTROL, AND FOR THE IMPLEMENTATION OF ALL SAFETY MEASURES INCLUDING, BUT NOT LIMITED TO: THE PROTECTION OF LIFE, PROPERTY, AND SITE IMPROVEMENTS; THE PROTECTION OF EXISTING UTILITY LINES AND STRUCTURES; AND THE PROVISION AND COORDINATION OF ALL TEMPORARY TRAFFIC CONTROL EFFORTS AND MEASURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SMOOTH TRANSITION BETWEEN ALL NEW CONSTRUCTION AND ALL EXISTING CONDITIONS. ALL TRANSITION GRADES, CONSTRUCTION MATERIALS, AND FINISHES SPECIFICALLY ACCESS CONNECTIONS TO EXISTING DRIVES, ARE SUBJECT TO APPROVAL BY THE OWNER AND ENGINEER.
- ALL CONSTRUCTION TO MEET OSHA SAFETY GUIDELINES. SAID SAFETY PROCEDURES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT SCALE CRITICAL DIMENSIONS FROM THIS DRAWING, CONTACT ENGINEER FOR SPECIFIC CLARIFICATIONS NEEDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER TRAFFIC CONTROL FOR PUBLIC SAFETY IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

SITE DEMOLITION NOTES:

- CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO ANY DEMOLITION REGARDING ITEMS TO BE SALVAGED, RECYCLED, AND REUSED. CONTRACTOR SHALL REMOVE ITEMS TO BE SALVAGED WITH EXTREME CAUTION TO PREVENT DAMAGE. CONTRACTOR SHALL TURN ALL SALVAGED ITEMS OVER TO OWNER.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OR REMOVAL OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS. ALL UTILITIES TO BE REMOVED ARE TO BE CAPPED OR PLUGGED OR TERMINATED ACCORDING TO THE UTILITY OWNERS REQUIREMENTS.
- REFER TO SITE GRADING AND UTILITY PLANS FOR PROPOSED UTILITY AND DRAINAGE INSTALLATION AND REMOVAL.
- REFER TO LAYOUT AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION RELATING TO PAVING, CURB, SIDEWALKS, HARDSCAPES, ETC. REMOVE EXISTING CURBS AS NEEDED TO INSTALL PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE RENEWAL, RELOCATION OR PROTECTION OF ALL ABOVE AND BELOW GROUND EXISTING IMPROVEMENTS THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS UNLESS NOTED.
- ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE TRANSPORTED AND DISPOSED OF AT LEAST WEEKLY IN A LEGAL AND APPROVED MANNER.
- ALL EXISTING PAVING, CURBS, HARDSCAPE, ETC. SHALL BE SAW CUT AT THE LIMITS OF REMOVAL IN ORDER TO PROVIDE A CLEAN EDGE. EXISTING PAVING AT THE EDGE SHALL BE MILLED BACK A MINIMUM OF 1.5' TO ENSURE SMOOTH TRANSITION.

SITE NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS, AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- TOPOGRAPHIC SURVEY PROVIDED BY ENGINEERING DESIGN GROUP, LLC. TOPOGRAPHIC INFORMATION OBTAINED VIA GROUND RUN SURVEY. IF THE CONTRACTOR IS NOT SATISFIED WITH THE PROVIDED TOPOGRAPHY, HE THEN SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- ALL DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF DAMAGE TO ANY EXISTING IMPROVEMENT, ONSITE OR OFFSITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, ETC. THE REPAIR MUST BE APPROVED BY THE ENGINEER AND BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED TO THE OWNER/ENGINEER IMMEDIATELY, AND SHALL NOT PROCEED WITH CONSTRUCTION UNTILL THE ISSUE HAS BEEN CLEARLY RESOLVED.
- ALL CONCRETE SHALL HAVE A MINIMUM OF 3,000 PSI @ 28 DAY COMPRESSIVE STRENGTH UNLESS STATED OTHERWISE, REFERENCE PLAN AND DETAILS

GRADING NOTES:

- A PROJECT SPECIFIC GEOTECHNICAL REPORT HAS NOT BEEN COMPLETED FOR THIS PROJECT. THE CONTRACTOR SHALL MAKE ALL INVESTIGATIONS THAT HE/SHE FEEL NECESSARY TO PROVIDE A COMPLETE AND ACCURATE BID PRIOR TO THE START OF CONSTRUCTION. SHOULD THE CONTRACTOR WISH TO MAKE ADDITIONAL SUBSURFACE INVESTIGATIONS, AN INVESTIGATION PLAN SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH SAID INVESTIGATIONS.
- CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. ANY CLEARING REQUIRED FOR THIS CONSTRUCTION SHALL BE INCIDENTAL TO THE OVERALL SITE WORK.
- GRADED OR DISTURBED AREAS, THAT ARE NOT OTHERWISE PERMANENTLY STABILIZED, SHALL HAVE A MINIMUM OF 4' OF TOPSOIL IF REQUIRED BY FIELD CONDITIONS, GEOTECHNICAL/ENGINEER

OR REGULATORY AGENCY. ALL GRADED OR DISTURBED AREAS SHALL BE GRASSED WITH SEED, MULCH, FERTILIZER AND WATER (OR OTHER GRASSING TECHNIQUE AS APPROPRIATE) APPLIED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

- GRADES SHOWN ARE FINISHED PAVEMENT & TOP OF SOIL GRADE ELEVATIONS, REFERENCE SECTIONS & DETAILS.
- THE CONTRACTOR SHALL CALL APPROPRIATE UTILITY REPRESENTATIVES 48 HOURS PRIOR TO EXCAVATION IN AREAS WHERE UTILITIES MAY EXIST.
- THE CONTRACTOR SHALL ASSUME THAT EXCESS MATERIAL SHOULD BE REMOVED FROM AND LEGALLY DISPOSED OF OFF THE PROJECT SITE AT THE CONTRACTOR'S EXPENSE. WASTING EXCESS MATERIAL ON SITE SHALL ONLY BE ALLOWED IF APPROVED BY THE ENGINEER AND OWNER.
- NO SLOPES SHALL BE STEEPER THAN 2-HORIZONTAL TO 1-VERTICAL, UNLESS OTHERWISE NOTED ON THE PLAN OR APPROVED BY THE ENGINEER.
- THE OWNER WILL PROVIDE GEOTECHNICAL TESTING. THE CONTRACTOR SHALL FULLY COOPERATE WITH THE MATERIALS TESTING ENGINEERS RELATIVE TO SOIL COMPACTION, CUTTING AND FILLING OPERATIONS, ETC.
- SITE PREPARATION - THE FIRST CONSTRUCTION PHASE SHOULD CONSIST OF THE REMOVAL OF ALL VEGETATION, TOPSOIL, ORGANIC MATTER, AND ANY OTHER DELETERIOUS MATERIALS THAT FALL WITHIN THE CONSTRUCTION AREA. AFTER ROUGH GRADE HAS BEEN ESTABLISHED & PRIOR TO PLACEMENT OF ANY CONTROLLED FILL, THE EXPOSED SUBGRADE SHOULD BE CAREFULLY INSPECTED BY PROBING, PROOF ROLLING AND TESTING AS NECESSARY. REMOVE ANY UNSUITABLE MATERIAL. PRIOR TO THE PLACEMENT AND COMPACTION OF ENGINEERED FILL, THE IN-SITU SOILS SHOULD BE COMPACTED TO A MINIMUM DENSITY OF 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY VALUE, AS TESTED FOR A MINIMUM DEPTH OF 1 FOOT IN THE BUILDING AND PAVEMENT AREAS. REFERENCE SITE WORK SPECIFICATIONS & GEOTECHNICAL REPORT.
- CONTRACTOR IS TO COORDINATE WITH THE GEOTECHNICAL ENGINEER AND THEIR ON-SITE TESTING AGENT THROUGHOUT CONSTRUCTION TO ADDRESS EARTHWORK ISSUES AND FOR GEOTECHNICAL DIRECTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ANY AND ALL EXISTING ITEMS TO REMAIN TO THE PROPOSED FINISHED GRADE (UNLESS OTHERWISE NOTED IN THE PLAN); THIS INCLUDES BUT NOT LIMITED TO STORM DRAINAGE STRUCTURES, UTILITY BOXES, FIRE HYDRANTS, SANITARY SEWER MANHOLES, ETC.

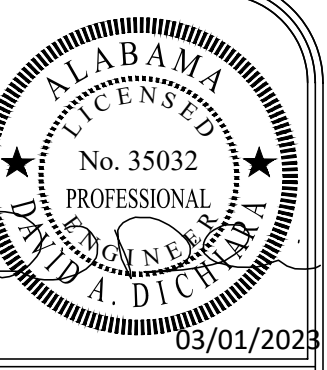
STORM DRAINAGE NOTES:

- STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP), CONFORMING TO ASTM C-76, B OR C WALL, CLASS III (UNLESS OTHERWISE NOTED IN THE PLAN). JOINTS SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT, WHICH MUST BE SEALED WITH RUBBER GASKETS CONFORMING TO ASTM 443 OR FLEXIBLE GASKETS CONFORMING TO AASHTO M 198.
- ALL PIPE ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED TO ASSURE THE CONNECTION AT THE STRUCTURE IS WATER TIGHT.
- ALL STORM SEWER MANHOLES SHALL BE PRECAST AND MEET THE SPECIFICATION OF ASTM C76.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE HEAVY DUTY TRAFFIC BEARING LIDS.
- ALL STORM SEWER MANHOLE LIDS SHALL BE LABELED "STORM SEWER"
- ALL STORM DRAINAGE PIPE AND STRUCTURES SHALL BE CLEANED OF SILT, TRASH AND DEBRIS PRIOR TO DEMOBILIZATION FROM SITE.
- CONTRACTOR IS TO BEGIN STORM DRAINAGE CONSTRUCTION FROM THE MOST DOWN STREAM POINT OF THE SYSTEM.
- ALL HEADWALLS SHALL BE PER ALDOT STANDARD HIGHWAY DWGS. OR PRECAST BY HANSON OR APPROVED ALTERNATE.
- INLETS ON 42" OR LARGER PIPE SHALL HAVE CONCRETE RISERS.
- STORM SEWER CROSSINGS UNDER STREETS TO BE SOLID STONE BACKFILL WITH WEEP HOLES TO INLETS.
- ALL STORM MANHOLES IN GRASSED AREAS SHALL BE FLUSH WITH FINISHED GRADE.
- ALL DRAINAGE STRUCTURES MAY BE PRE-CAST, OR APPROVED ALTERNATE, IF APPROVED BY ENGINEER.
- PIPE LENGTHS AND SLOPES ARE APPROXIMATE. PIPE LENGTH ARE HORIZONTAL PROJECTIONS AND ARE MEASURED FROM THE CENTER OF THE STRUCTURE.

SEDIMENT AND EROSION CONTROL NOTES:

- THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION SEDIMENT CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE. SILT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS.
- THE CONTRACTOR SHALL PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE BY INSTALLING EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DO NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.
- ALL EROSION CONTROL MEASURES SHALL MEET THE GUIDELINES SET FORTH IN THE CITY AND LOCAL EROSION CONTROL GUIDELINES AS A MINIMUM.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM THE SITE (IF NOT REUSABLE ON SITE) AND FOR CORRECTING HORIZONTAL AND VERTICAL ALIGNMENT OF SLOPES & DITCHES, IF NECESSARY AT THE COMPLETION OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- A COPY OF THE NPDES PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES MAY RESULT IN CONSTRUCTION DELAYS DUE TO REGULATORY INTERVENTION AND SHALL NOT CONSTITUTE A EXTENSION OF CONSTRUCT TIME.

- ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL CONFORM TO THE LATEST EROSION AND SEDIMENTATION CONTROL GUIDANCE, PUBLISHED BY ADEM.
- EROSION CONTROL MEASURES TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES. MEASURES SHALL BE INSTALLED ON CONTOUR TO THE EXTENT THAT IS PRACTICAL.
- SOME ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE PROJECT ENGINEER AND/OR THE LOCAL INSPECTOR.
- SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING THE PROPERTY LIMITS.
- OTHER THAN LAND CLEARING ACTIVITIES REQUIRED TO INSTALL THE APPROPRIATE BMP DEVICES, ANY DOWNSLOPE EROSION AND SEDIMENT CONTROL MEASURES, ON-SITE STREAM CHANNEL PROTECTION AND UPSLOPE DIVERSION OF DRAINAGE REQUIRED BY THE BMP PLAN SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY CLEARING OR EARTH-MOVING OPERATIONS BEGIN. THESE MEASURES SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT SHALL BE REPLACED AT THE END OF THE WORKDAY.
- CONTRACTOR TO PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF 13 DAYS OR MORE.
- ADEQUATE PROTECTIVE MEASURES SHALL BE PROVIDED FOR THE CONTAINMENT OF HAZARDOUS SUBSTANCES AND ANY OTHER MATERIALS WHICH MAY POLLUTE. THESE MAY INCLUDE, BUT ARE NOT LIMITED TO PETROLEUM PRODUCTS, LUBRICANTS AND PAINTS. MATERIALS SHALL BE STORED IN ACCORDANCE WITH SPOC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM ALL STORM DRAINS, DITCHES AND GUTTERS IN WATER TIGHT CONTAINERS. DISPOSAL OF THESE MATERIALS SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON-SITE FOR DISPOSAL OF CONSTRUCTION MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SITE TRASH FROM ENTERING THE STORM DRAINAGE SYSTEM.
- ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY 0.75 INCH RAINFALL. DURING PROLONGED RAINFALLS, DAILY INSPECTIONS AND, IF NECESSARY, REPAIRS SHALL BE PERFORMED. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS. THESE RECORDS SHALL BE SUBJECT TO THE INSPECTION OF THE STORM WATER MANAGEMENT AUTHORITY AT ANY REASONABLE TIME.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LAND DISTURBANCE PERMITS FOR THIS PROJECT AND PROVIDE REQUIRED MONITORING AND TESTING. CONTRACTOR SHALL COOPERATE FULLY WITH THE MONITORING AND TESTING AGENCY TO INSURE ALL REQUIREMENTS OF THE NPDES PERMIT ARE MET.
- SLOPE STABILIZATION MAT SHALL BE USED AS DEPICTED BY THE EROSION CONTROL PLANS, GEOTECHNICAL ENGINEER OR BY REGULATORY AGENCY ON SLOPES 3:1 OR STEEPER. PLACE NORTH AMERICAN GREEN C125BN, OR APPROVED EQUAL ON ALL SLOPES STEEPER THAN 3:1 AND NORTH AMERICAN GREEN S150 BN, OR APPROVED EQUAL ON 3:1 SLOPES. AS AN ALTERNATIVE TO STABILIZATION MAT, THE CONTRACTOR MAY SUBMIT A PS3 FOR PROFILES ALTERNATIVE HYDROMULCH.
- THE CONTRACTOR SHALL KEEP A LOG OF QUANTITY OF ALL SEDIMENT MATERIALS THAT ARE REMOVED FROM THE PROJECT EROSION AND SEDIMENT CONTROL DEVICES.
- DEWATERING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND AT HIS/HER EXPENSE. DEWATERING OPERATIONS MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR POLLUTION TO ADJACENT PROPERTIES, STREAMS, DITCHES OR PUBLIC ROADWAYS.



EDG

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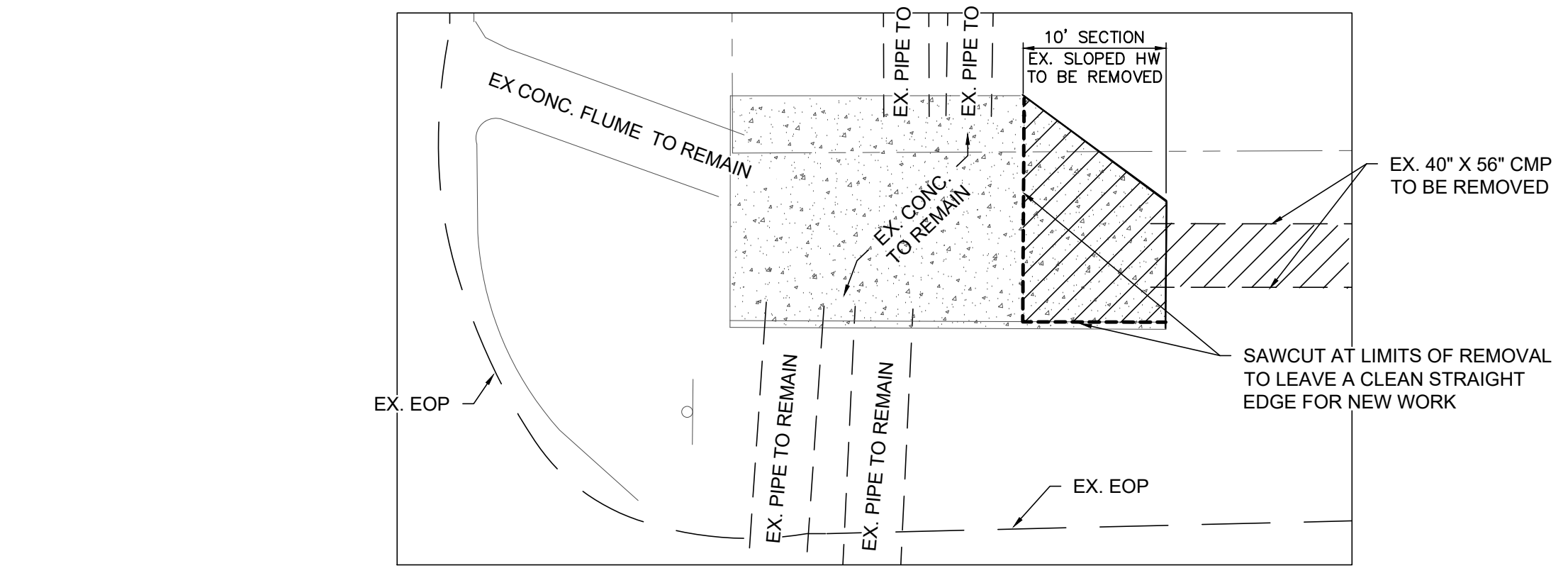
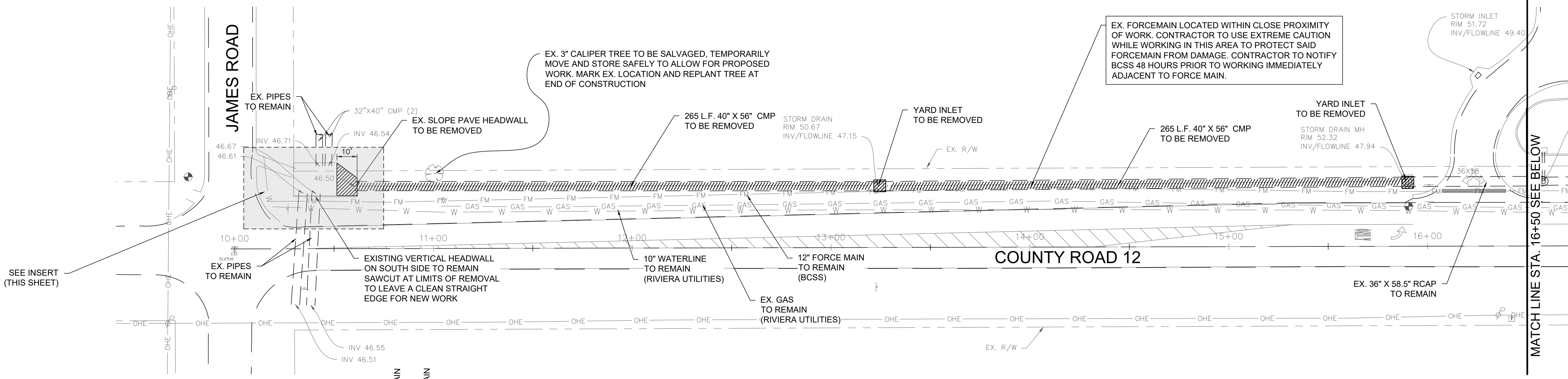
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DEMOLITION PLAN

PROJECT NAME:
C.R. 12 STORM DRAIN
REPLACEMENT

DRAWN BY:
CAW
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DAD
PROJECT No.:
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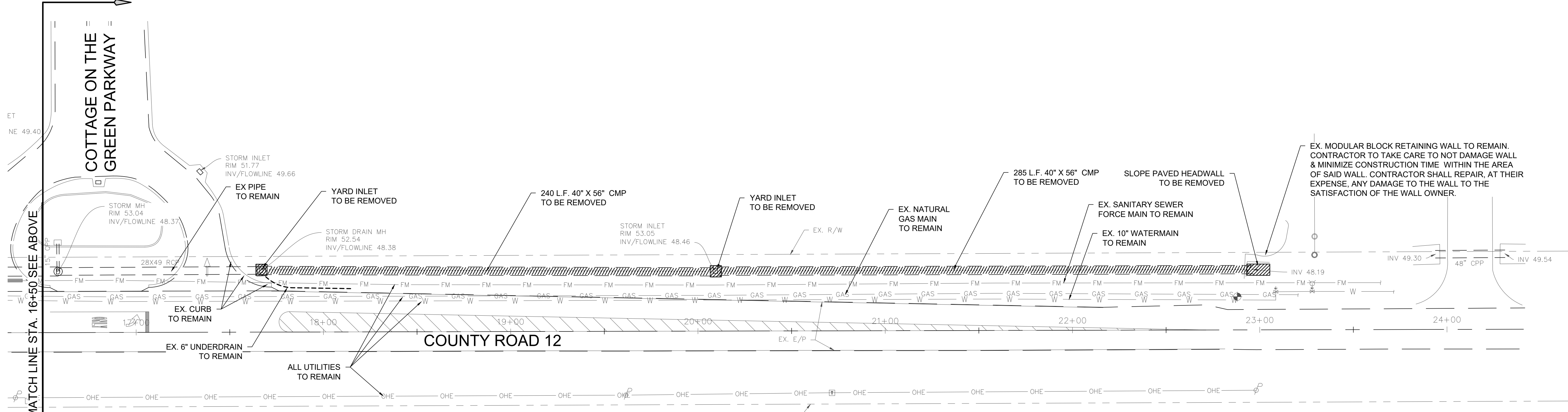
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C1.0

WORK DONE TO THE WEST
OF THIS DEMARCATION
LINE IS PHASE 1
SCOPE OF WORK



WEST HEADWALL INSERT
SCALE: 1" = 10'

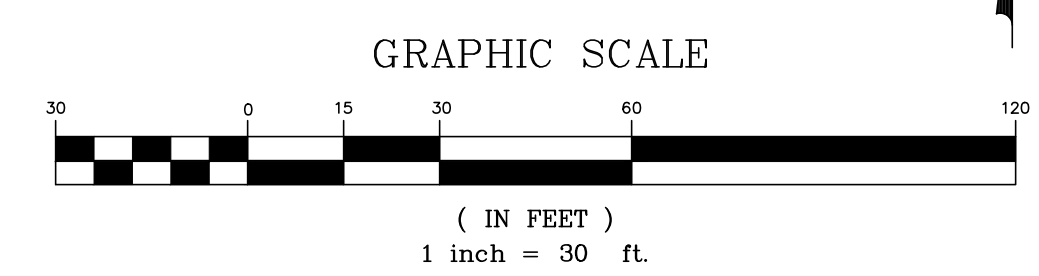
WORK DONE TO THE EAST
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LINE IS PHASE 2
SCOPE OF WORK



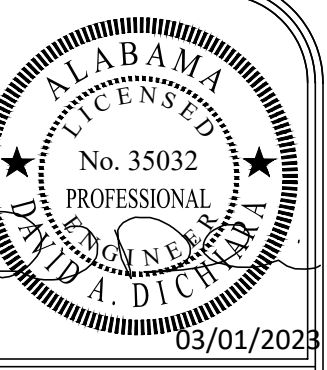
COUNTY ROAD 12
STA 16+50 TO STA 24+00
SCALE: 1" = 30'

NOTES:

- SEE SHEET C0.2 FOR GENERAL DEMOLITION NOTES.
- STAGING AND WORK SPACE IS LIMITED TO WITHIN THE RIGHT OF WAY. SHOULD THE CONTRACTOR NEED ADDITIONAL STORAGE AREAS FOR MATERIAL OR EQUIPMENT, IT IS THE CONTRACTOR'S RESPONSIBILITY OF SECURE & ACQUIRE TEMPORARY SPACE
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED ABOUT THE PRESENCE OF EXISTING UTILITIES. UTILITIES SHOWN ARE PER THE MARKINGS OF A 3RD PARTY LOCATE COMPANY. CONTRACTOR SHALL REQUEST THEIR OWN UTILITY LOCATE PRIOR TO COMMENCEMENT OF CONSTRUCTION.



T:\F_FOLE010 - COUNTY ROAD 12 STORM DRAIN REPLACEMENT\ENGINEERING\DWG\DEM.DWG - last plotted 3/1/23 by CHRIS WALLIS



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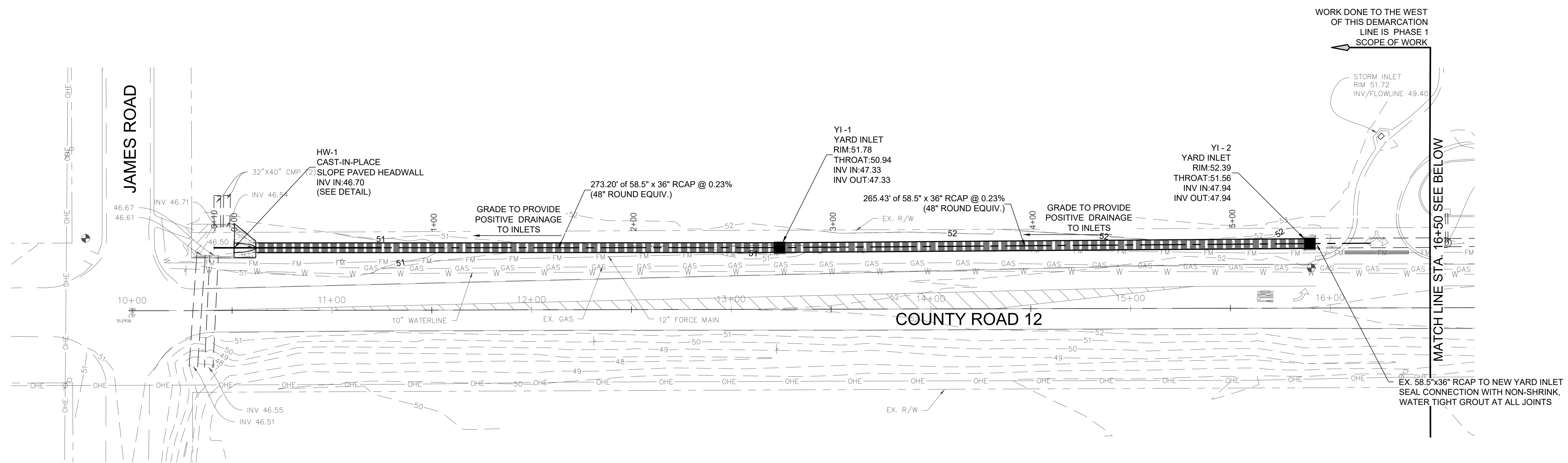
SHEET TITLE:
 GRADING AND DRAINAGE PLAN

C.R. 12 STORM
 DRAIN
 REPLACEMENT

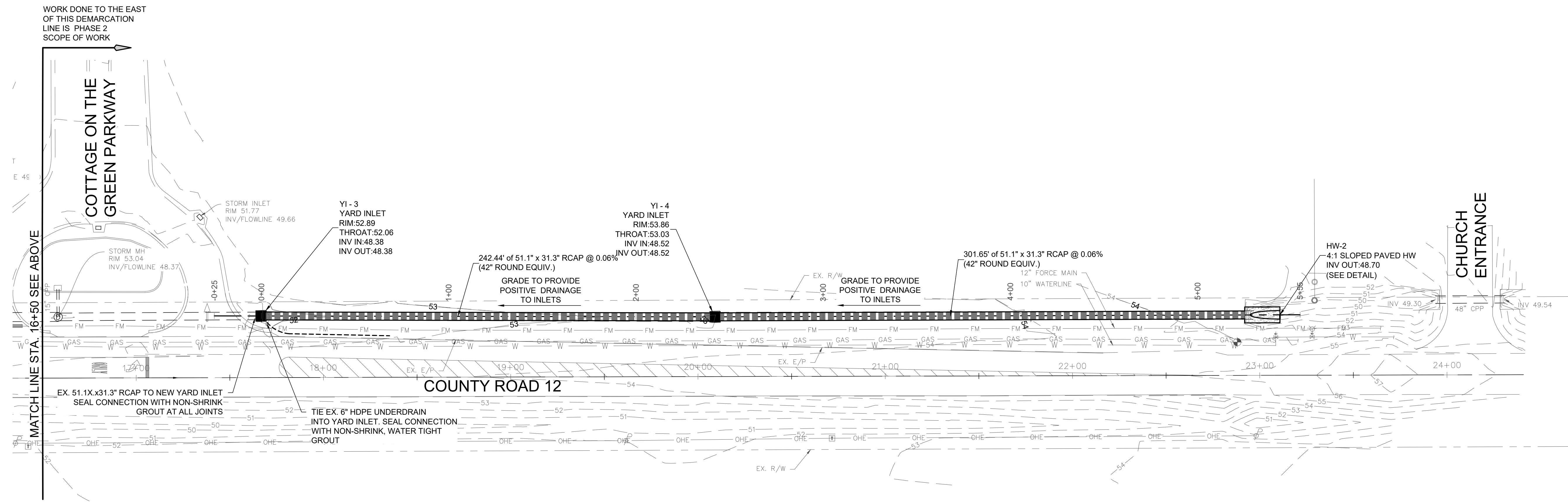
PROJECT NAME:

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 DAD
 PROJECT No.:
 F_FOLEO010
 DATE:
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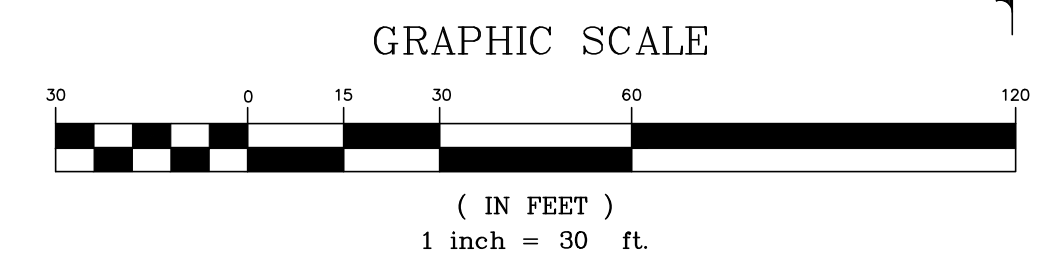
COUNTY ROAD 12
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 SCALE: 1" = 30'



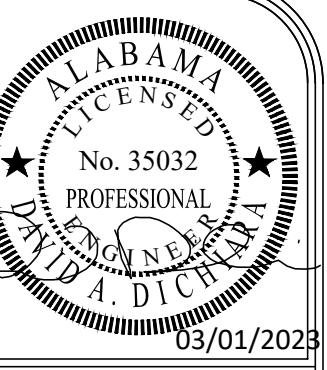
COUNTY ROAD 12
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 SCALE: 1" = 30'

NOTES:

- SEE SHEET C0.2 FOR GENERAL STORM & GRADING NOTES.
- SEE SHEET C2.1 FOR STORM PROFILES & ADDITIONAL INFORMATION.
- ALL NEW STORM PIPE JOINTS SHALL BE FULLY WRAPPED WITH FILTER FABRIC. OVERLAP FABRIC ON ITSELF A MINIMUM OF 24" AND EXTEND FABRIC 18" BEYOND JOINT ON BOTH SIDES OF JOINT.

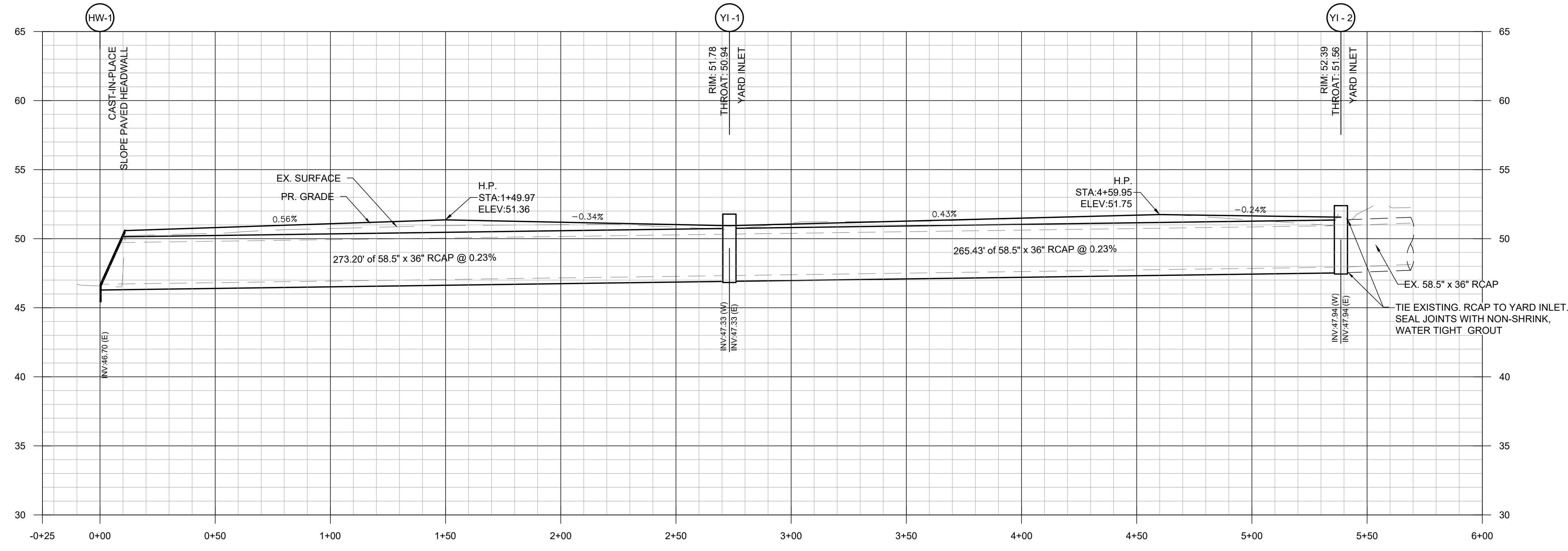


T:_F_01E0010 - COUNTY ROAD 12 STORM DRAIN REPLACEMENT\ENGINEERING\DWG\PLAN\DWG - last plotted 3/1/23 by CHRIS WALLIS

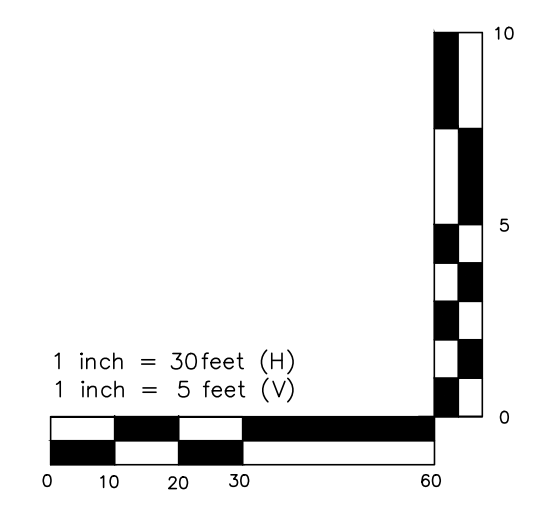
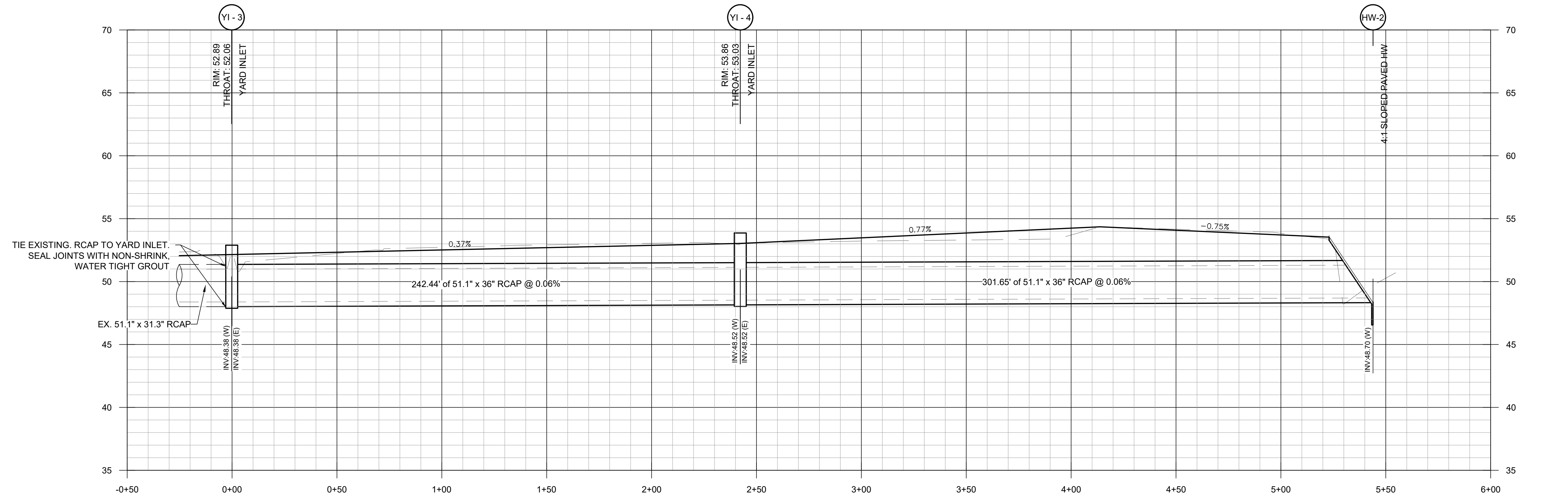


ENGINEERING DESIGN GROUP
 PELHAM, AL
 120 BISHOP CIRCLE SUITE 300
 PELHAM, AL 35124
 (205) 403 - 8158
 FOLEY, AL
 1000 E. LAUREL STREET
 FOLEY, AL 36555
 (251) 943 - 8960

PHASE 1 STORM



PHASE 2 STORM



ISSUE FOR BID-03/01/2023
 REVISIONS

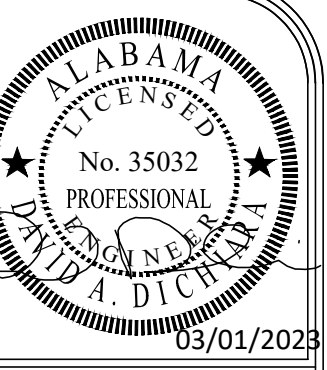
PROJECT ADDRESS:
 CITY OF FOLEY
 FOLEY, ALABAMA

SHEET TITLE:
 STORM PROFILES

PROJECT NAME:
 C.R. 12 STORM
 DRAIN
 REPLACEMENT

DRAWN BY:
 CAW
 CHECKED BY:
 DAD
 PROJECT No.:
 F_FOLEO010
 DATE:
 March 1, 2023

SHEET NO.
 C2.1



ENGINEERING DESIGN GROUP
 PELHAM, AL
 120 BISHOP CIRCLE SUITE 300
 PELHAM, AL 35124
 (205) 403-9158
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ISSUE FOR BID-03/01/2023
 REVISIONS

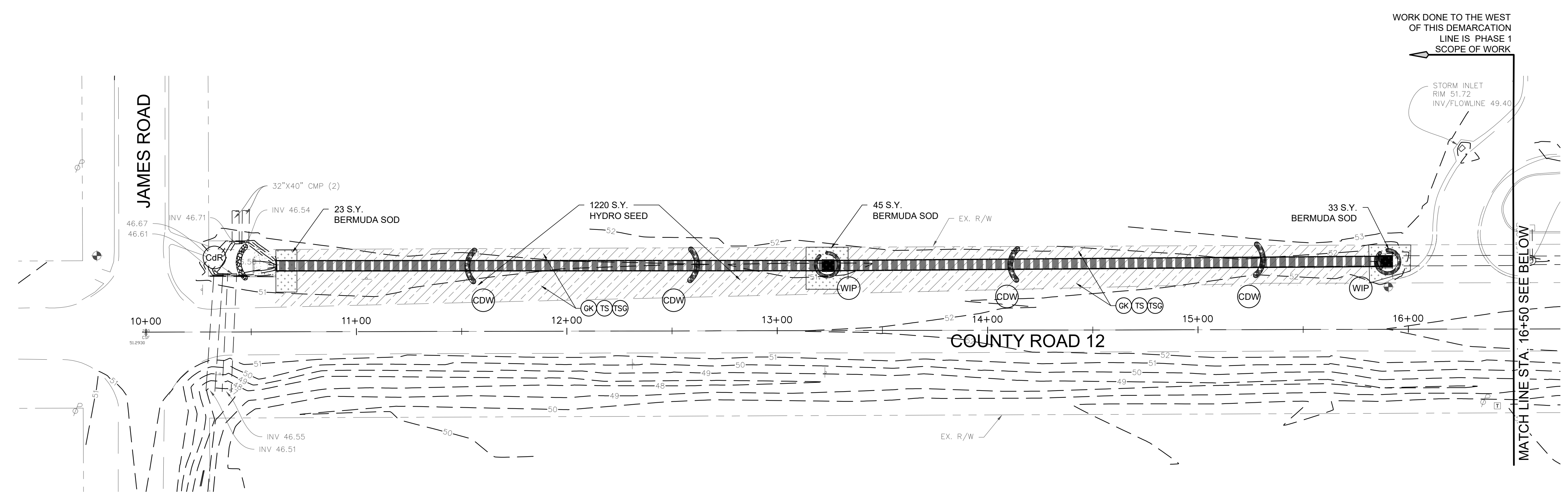
PROJECT ADDRESS:
 CITY OF FOLEY
 FOLEY, ALABAMA

SHEET TITLE:
 EROSION CONTROL PLAN

PROJECT NAME:
 C.R. 12 STORM DRAIN
 REPLACEMENT

DRAWN BY:
 CAW
 CHECKED BY:
 DAD
 PROJECT No.:
 F_FOLEO010
 DATE:
 March 1, 2023

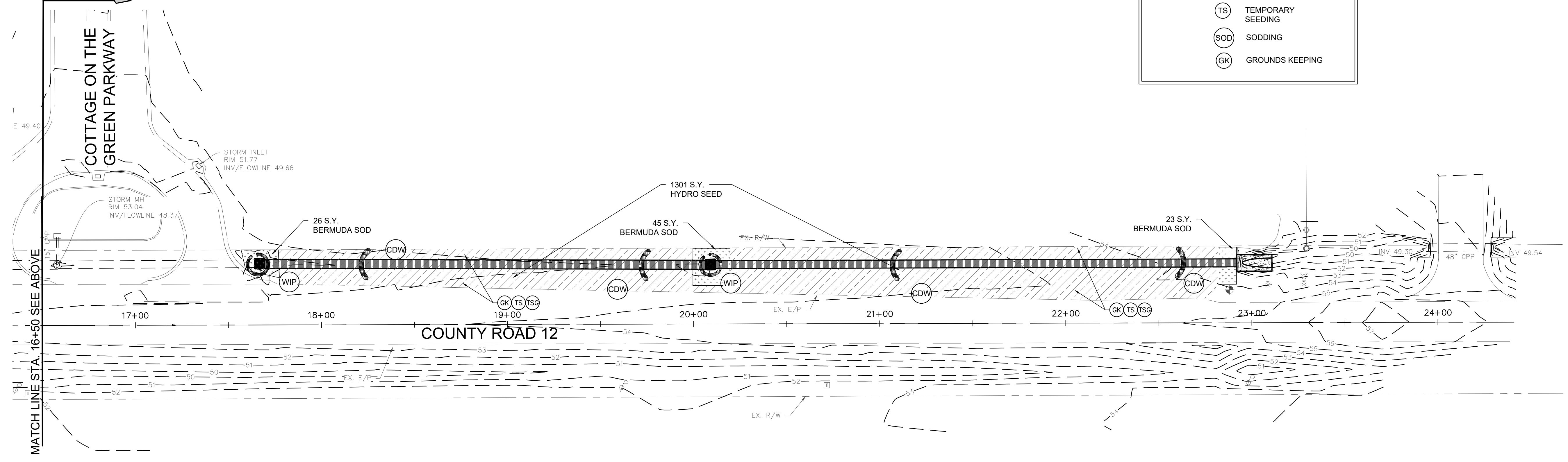
SHEET NO.
 C3.0



COUNTY ROAD 12
 STA 10+00 TO STA 16+50
 SCALE: 1" = 30'

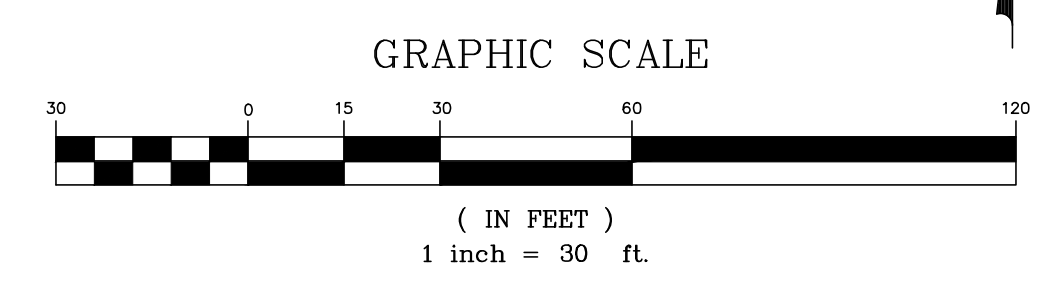
EROSION CONTROL LEGEND	
	WIP WATTLE INLET PROTECTION
	CDW WATTLE CHECK DAM
	CdR RIP RAP CHECK DAM
	TSG TOPSOIL
	TS TEMPORARY SEEDING
	SOD SODDING
	GK GROUNDS KEEPING

WORK DONE TO THE EAST OF THIS DEMARCATION LINE IS PHASE 2 SCOPE OF WORK

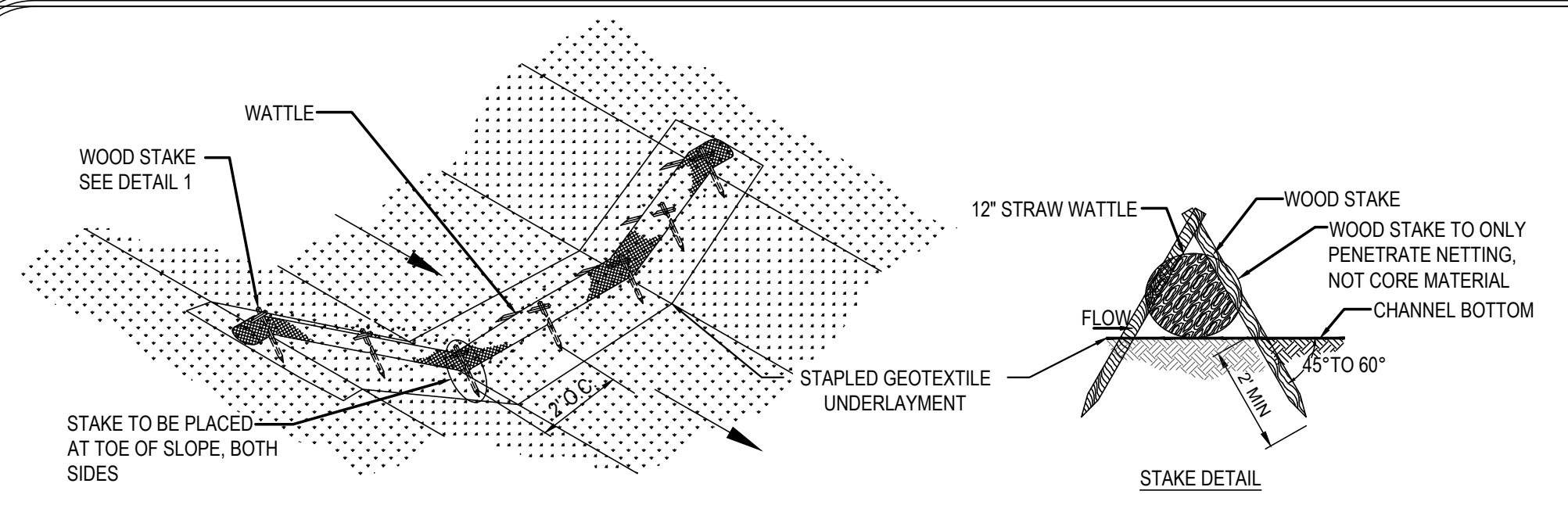


COUNTY ROAD 12
 STA 16+50 TO STA 24+00
 SCALE: 1" = 30'

- NOTES:
- SEE SHEET C0.2 FOR GENERAL EROSION CONTROL NOTES.
 - SODDING SHALL BE PLACED ADJACENT TO NEW INLETS AND HEADWALLS. EXTEND 10' BEYOND STRUCTURE. ALL OTHER DISTURBED AREAS SHALL BE STABILIZED WITH HYDRO SEEDING
 - TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE FINAL STABILIZATION IS COMPLETE.



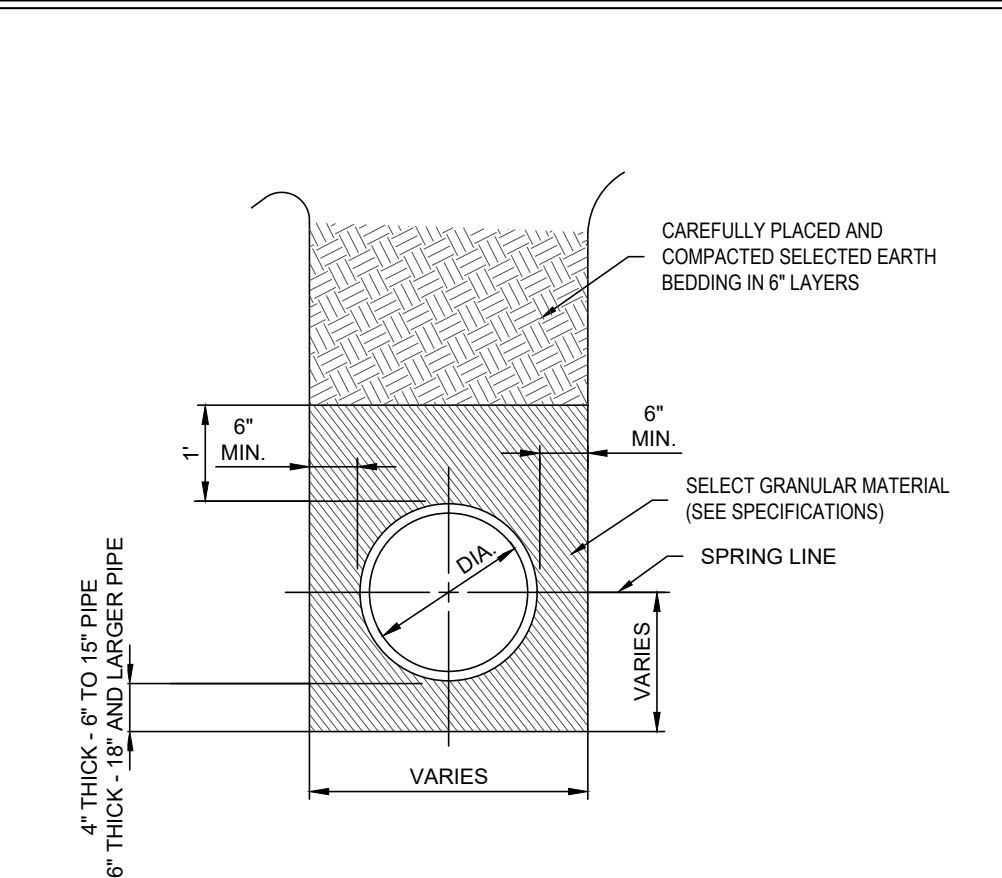
T:\F_FOLE010 - COUNTY ROAD 12 STORM DRAIN REPLACEMENT\ENGINEERING\DWG\SED.DWG - last plotted 3/1/23 by DAVID DICHARA



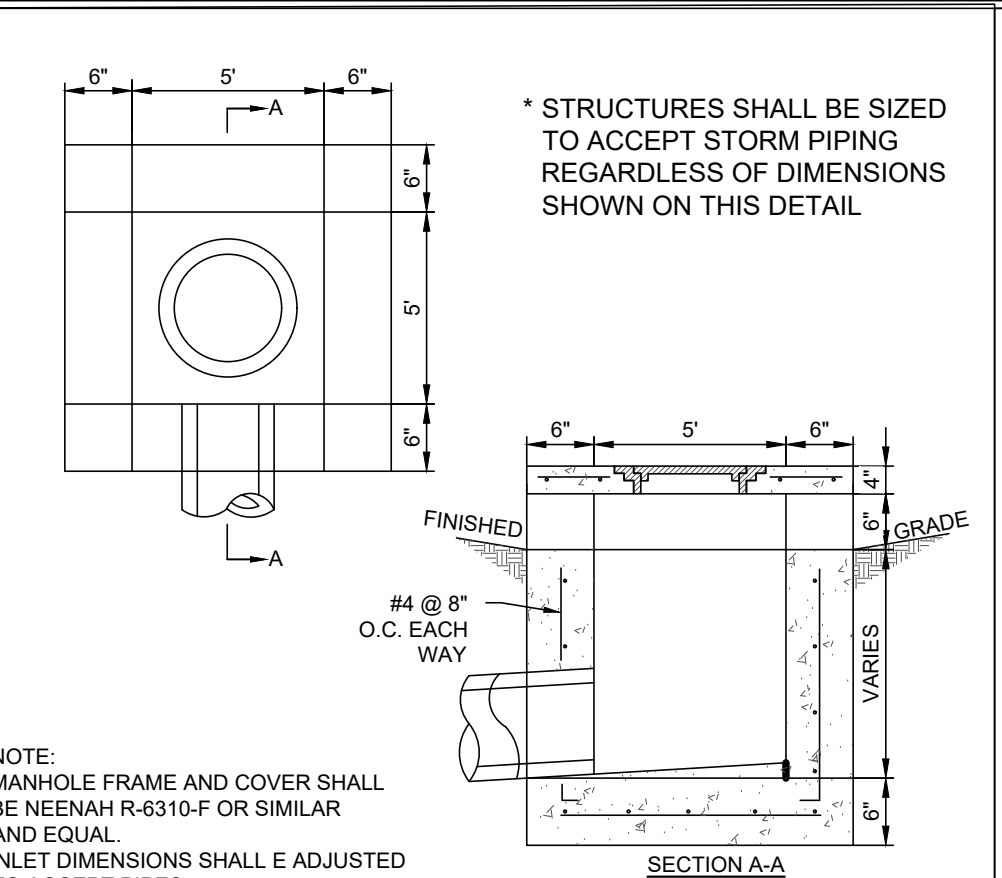
WATTLE CHECK DAM
N.T.S.

WATTLE CHECK DAMS TO BE INSTALLED WITHOUT TRENCHING AND ON TOP OF STAPLED GEOTEXTILE UNDERLAYMENT THAT EXTENDS A MINIMUM 3 FT. UP AND DOWNSTREAM FROM THE WATTLE. WATTLES MUST BE PROPERLY STAPLED WITH SOD STAPLES ON 10-INCH CENTERS ON EACH SIDE OF THE WATTLE TO PREVENT FLOTATION AND STAKED OVER THE TOP USING NON-DESTRUCTIVE TEE-PEE TYPE STAKING

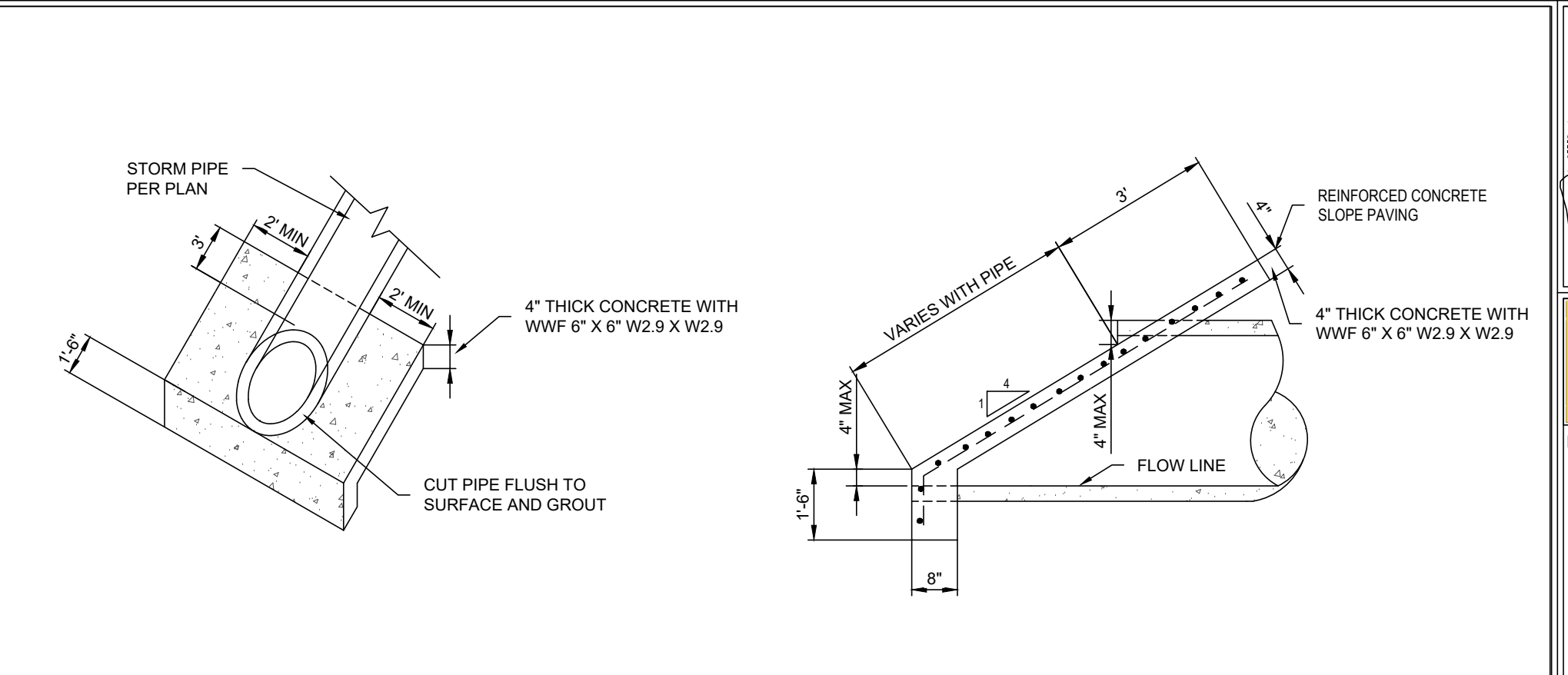
WATTLE SPACING
REFER TO ALDOT SPECIAL DRAWING NO. ESC-300 FOR RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLES



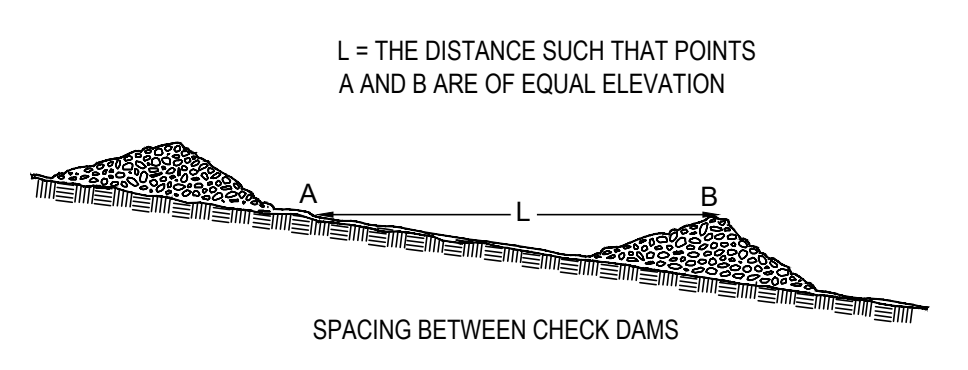
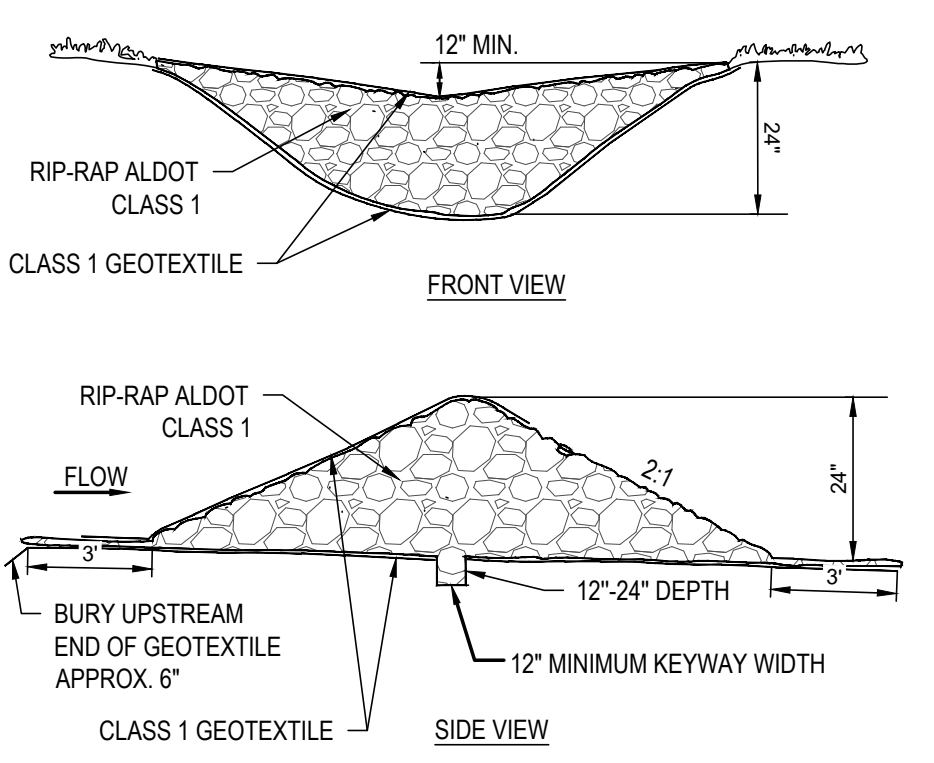
TYPICAL PIPE BEDDING AND INITIAL BACKFILL UNDER UNIMPROVED SURFACES
N.T.S.



YARD INLET
N.T.S.



4:1 SLOPE PAVED HEADWALL
N.T.S.



- SPECIAL NOTES:**
- MAXIMUM DRAINAGE AREA IS 10 ACRES.
 - MAXIMUM HEIGHT OF CHECK DAM AND DEPTH OF FLOW IS BASED ON DRAINAGE AREA AS FOLLOWS:
 FOR AREAS OF LESS THAN 5 ACRES, HEIGHT = 2' AND DEPTH OF FLOW = 6".
 FOR AREAS OF 5-10 ACRES, HEIGHT = 3' AND DEPTH OF FLOW = 12".
 - CHECK DAM IS TO BE KEED INTO THE CHANNEL BOTTOM AND ABUTMENTS TO A DEPTH OF 12"-24" TO PREVENT EROSION UNDER AND AROUND THE ENDS OF THE DAM. KEYWAY WIDTH SHOULD BE AT LEAST 12".
 - ELEVATION OF THE TOE OF THE UPSTREAM DAM SHOULD BE AT OR BELOW THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM.
 - ROCK CHECK DAM SHALL COMPLY WITH THE LATEST EDITION OF THE ALABAMA EROSION CONTROL HANDBOOK.

ROCK CHECK DAM
N.T.S.

Species	Seeding Rates/Ac PLS 1	North	Central	South
Bahiagrass, Pensacola	40 lbs	-	Mar 1-July 1	Feb 1-Nov 1?
Bermudagrass, Common	10 lbs	Apr 1-July 1	Mar 15-July 15	Mar 1-July 15
Bahiagrass, Pensacola	30 lbs 5 lbs	-	Mar 1-July 1	Mar 1-July 15
Bermudagrass, Common	Solid Sod	Anytime	Anytime	Anytime
Bermudagrass, Hybrid (Lawn Types)	Sprigs 1/sq ft	Mar 1-Aug 1	Mar 1-Aug 1	Feb 15-Sep 1
Bermudagrass, Hybrid (Lawn Types)	40-50 lbs	Sep 1-Nov 1	Sep 1-Nov 1	-
Fescue, Tall	40-60 lbs	Mar 15-July 15	Mar 1-July 15	Feb 15-July 15
Sericea	40-60 lbs	Mar 15-July 15	Mar 1-July 15	Feb 15-July 15
Sericea & Common Bermudagrass	40 lbs 10 lbs	Mar 15-July 15	Mar 1-July 15	Feb 15-July 15
Switchgrass, Alamo	4 lbs	Apr 1-Jun 15	Mar 15-Jun 15	Mar 15-Jun 15

Figure FS-1 Geographical Areas for Species Adaptation

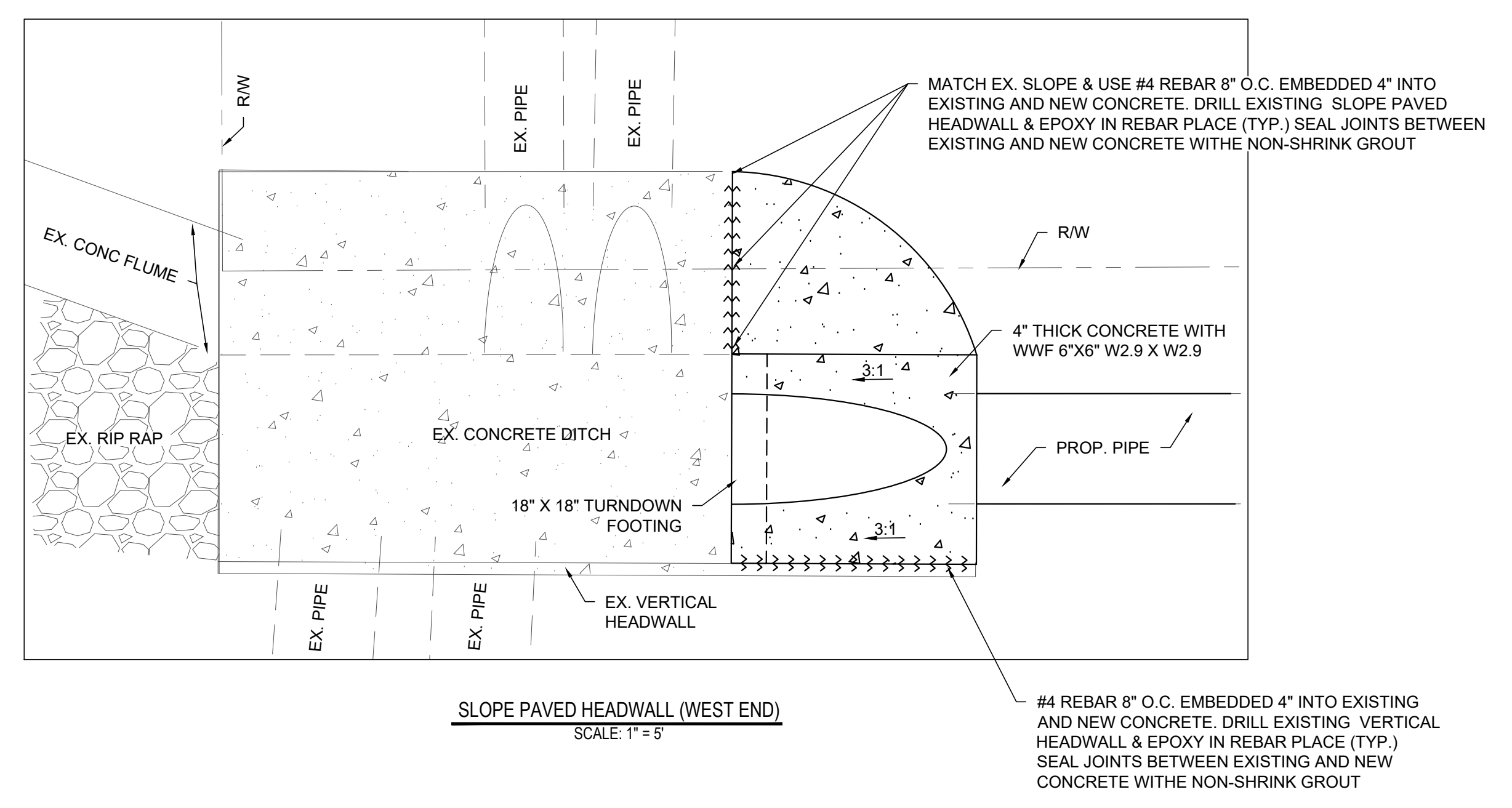


Note: Site conditions related to soils and aspect in counties adjacent or close to county boundaries may justify adjustments in planting dates by qualified design professionals.

Table MU-1 Mulching Materials and Application Rates

Material	Rate Per Acre and (Per 1000 ft.2)	Notes
Straw (with Seed)	1 1/2 - 2 tons (70 lbs - 90 lbs)	Spread by hand or machine; anchor when subject to blowing.
Straw Alone (no seed)	2 1/2 - 3 tons (115 lbs - 160 lbs)	Spread by hand or machine; anchor when subject to blowing.
Wood Chips	5-6 tons (225 lbs - 270 lbs)	Treat with 12 lbs. nitrogen/ton.
Bark	35 cubic yards (0.8 cubic yard)	Can apply with mulch blower.
Pine Straw	1-2 tons (45 lbs - 90 lbs)	Spread by hand or machine; will not blow like straw.
Peanut Hulls	10-20 tons (450 lbs - 900 lbs)	Will wash off slopes. Treat with 12 lbs. nitrogen/ton.

TEMPORARY SEEDING AND MULCHING RATES
N.T.S.



SLOPE PAVED HEADWALL (WEST END)
SCALE: 1" = 5'

#4 REBAR 8" O.C. EMBEDDED 4" INTO EXISTING AND NEW CONCRETE. DRILL EXISTING VERTICAL HEADWALL & EPOXY IN REBAR PLACE (TYP.) SEAL JOINTS BETWEEN EXISTING AND NEW CONCRETE WITH NON-SHRINK GROUT