

2160 SATELLITE BOULEVARD, SUITE 250, DULUTH, GA 30097 / T:770.476.7782 SAVANNAH • ATLANTA • STATESBORO • CHARLESTON • COLUMBIA • NASHVILLE www.husseygaybell.com



# SCHEDULE OF DRAWINGS

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# CONSTRUCTION NOTES & LEGEND

## **GENERAL NOTES:**

- ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM.
- 2. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE PROPER PERMITS HAVE BEEN ISSUED AND A PRECONSTRUCTION MEETING IS HELD WITH EFFINGHAM COUNTY ENGINEERING DEPARTMENT THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES
- SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 4. THE CONTRACTOR SHALL COMPLETELY CLEAR AND GRUB ALL AREAS WITHIN THE LIMITS OF DISTURBANCE
- UNLESS INDICATED OTHERWISE. ORDINANCES, STANDARDS AND SPECIFICATIONS AND DETAILS FOR EFFINGHAM COUNTY WILL PREVAIL IN THE EVENT OF CONFLICT WITH ANY SPECIFICATIONS SHOWN BY THE ENGINEER.
- 6. TOPOGRAPHIC SURVEY COMPLETED BY HUSSEY GAY BELL.

## **STAKING NOTES:**

LAYOUT FOR MANHOLES, INLETS, ETC., ARE NOT SHOWN ON THIS PLAN. COORDINATES FOR SUCH STRUCTURES CAN BE PROVIDED TO THE SELECTED CONTRACTOR UPON REQUEST 2. THE CONTRACTOR SHALL UTILIZE EXISTING BENCHMARKS SHOWN ON THE PLANS TO ESTABLISH VERTICAL CONTROL ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THESE BENCHMARKS DURING THE CONSTRUCTION PROJECT AND FOR BEARING ANY EXPENSE RESULTING FROM UNAUTHORIZED REMOVAL OR REPLACEMENT OF BENCHMARKS. WHEN A PERMANENT BENCHMARK IS LOCATED SUCH THAT IT MUST BE REMOVED TO COMPLETE THE PROJECT, THE CONTRACTOR SHALL ESTABLISH SUCH TEMPORARY BENCHMARKS AS HE MAY REQUIRE PRIOR TO REMOVING THE PERMANENT BENCHMARK. THE CONTRACTOR SHALL PROVIDE THE LOCATION. IDENTIFICATION AND ELEVATION OF ANY TEMPORARY BENCHMARK ESTABLISHED

## TO THE OWNER AND ENGINEER. PAVING. GRADING AND DRAINAGE NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. CONTOURS SHOWN ON THIS SHEET ARE FOR GENERAL GUIDANCE AND INFORMATIONAL PURPOSES. THE
- CONTRACTOR SHALL GRADE THE SITE IN ACCORDANCE WITH ELEVATIONS SHOWN. IN CASES OF CONFLICT BETWEEN SPOT ELEVATIONS AND CONTOURS THE SPOT ELEVATIONS SHALL GOVERN. LOAD BEARING AND STRUCTURAL FILLS SHALL BE APPROVED SUITABLE MATERIAL AS DEFINED IN THE PROJECT SPECS. WASTE MATERIALS MAY BE USED FOR FLUSHING OF SHOULDER OR CONSTRUCTION OF PEDESTRIAN OR
- LANDSCAPED AREAS IF THEY CAN BE STABILIZED AND SHALL SUPPORT PLANT GROWTH AND MEET THE REQUIRED DEGREE OF COMPACTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF ANY AREAS WHICH ARE FIELD ADJUSTED DURING CONSTRUCTION.
- 5. SEE SPECIFICATIONS FOR REQUIREMENTS FOR CONTROL, CONSTRUCTION AND EXPANSION JOINTS IN CONCRETE SIDEWALKS AND CURB AND GUTTER.
- STANDARD CURB AND GUTTER SHALL BE USED WHERE THE DRAWINGS INDICATE THAT THE GUTTER IS TO CARRY WATER. PITCHED CURB AND GUTTER SHALL BE USED WHERE THE DRAWINGS INDICATE THE WATER SHALL DRAIN AWAY FROM THE GUTTER. TRANSITIONS BETWEEN THE TWO CONDITIONS SHALL BE MADE AS SMOOTHLY AS POSSIBLE, USUALLY THROUGH A RADIUS. SIGNAGE AND STRIPING NOTES:
- 1. ALL TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE MANUAL IDENTIFICATION AND DIMENSIONS ARE SHOWN ON STAKING SHEETS FOR EACH REQUIRED SIGN. THE ORIENTATION OF EACH SIGN FROM AN APPROACHING DRIVER'S POINT OF VIEW IS ALSO SHOWN. SIGN AND SUPPORT POST MATERIAL AND INSTALLATION SHALL CONFORM TO THE PERTINENT SECTIONS OF THE CURRENT EDITION OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- ALL PAVEMENT MARKINGS (EXCLUDING PARKING STRIPES AND H/C PARKING) SHALL BE THERMOPLASTIC. MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH GEORGIA DOT SPECIFICATIONS, LATEST EDITION. WATER AND SEWER PLAN NOTES:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND DETAILS FOR WATER AND SEWERAGE SYSTEM IMPROVEMENTS, AND SHALL MEET EFFINGHAM COUNTY REQUIREMENTS. ALL 8" WATER DISTRIBUTION PIPE SHALL BE AWWA C-900 PRESSURE RATED PIPE, PRESSURE CLASS 150, WITH
- DIMENSION RATIO 18 OR LOWER. ALL PVC WATER MAINS SHALL BE BLUE IN COLOR. 4. SANITARY SEWER PIPE SHALL BE P.V.C. ASTM D 3034, SDR 26 OR DUCTILE IRON PIPE CLASS 50 WHERE SHOWN. MANHOLE TOP ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SET MANHOLE TOPS AS INDICATED
- ON MANHOLE DETAIL, RELATIVE TO FINISHED GRADE. SEE DETAIL SHEETS FOR THRUST RESTRAINT DETAILS.
- 7. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 3 FEET AND A MAXIMUM COVER OF 4 FEET MEASURED FROM FINISHED GRADE. WHERE THE WATER MAIN CROSSES OTHER UTILITY LINES, THE WATER MAIN SHALL BE INSTALLED 18" (PIPE TO PIPE) BELOW THE OTHER UTILITY LINES IF REQUIRED TO AVOID CONFLICTS AND MAINTAIN COVER (SEE DETAIL). MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER AND SEWER LINES UNLESS
- OTHERWISE SHOWN. WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING INSTALLED.
- 10. THE FOLLOWING PROCEDURE SHALL BE FOLLOWED DURING FLUSHING OF THE LINES PRIOR TO CONNECTION TO THE CITY WATER SYSTEM: FLUSH THE WATER MAINS USING A FULL SIZE FLUSH HAVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND. CONTINUE FLUSHING FOR A MINIMUM TIME PERIOD OF THIRTY MINUTES OR UNTIL WATER LINE IS PURGED OF FOREIGN MATTER AND WATER RUNS CLEAR 11. ALL WATER USED FOR CONSTRUCTION, IF OBTAINED FROM AN UNMETERED LINE, MUST BE METERED THROUGH
- AN APPROVED FIRE HYDRANT METER WITH A BACKFLOW PREVENTION DEVICE OBTAINED FROM EFFINGHAM COUNTY WATER OPERATIONS DEPARTMENT (748-4800) 12. WATER DISTRIBUTION PIPE SHALL HAVE A #12 GAUGE COPPER TRACING WIRE INSTALLED ALONG ITS LENGTH,
- INCLUDING LATERALS UP TO THE METER OR BACKFLOW PREVENTER. 13. ALL FIRE AND POST-TYPE HYDRANTS SHALL HAVE A #12 GAUGE COPPER TRACING WIRE INSTALLED ALONG THE
- BARREL, WRAPPED AROUND THE BOTTOM FLANGE, AND ATTACHED TO THE WIRE ON THE WATER MAIN. 14. ALL WATER VALVE MANHOLES SHALL HAVE A #12 GAUGE COPPER TRACING WIRE ATTACHED TO THE MANHOLE
- FRAME/RING AND ATTACHED TO THE WIRE ON THE WATER MAIN. 15. ALL CONNECTIONS OF THE #12 GAUGE SOLID COPPER TRACING WIRE SHALL BE MADE WITH 3M BRAND SPLICE KITS AS REQUIRED BY THE EFFINGHAM COUNTY.
- 16. WATER AND SEWER LATERALS SHALL END AT RIGHT-OF-WAY LINE AND SHALL NOT ENCROACH INTO THE UTILITY EASEMENT. 17. WATER LATERAL SHALL BE 1" POLYETHYLENE, SEWER LATERALS SHALL BE 4" PVC (SEE DETAILS).
- 18. ALL WATER AND SEWER MAINS AND LATERALS SHALL BE INSTALLED WITHIN THE ROAD RIGHT-OF-WAY AND SHALL NOT ENCROACH OUTSIDE OF THE RIGHT-OF-WAY. FITTINGS SHALL BE USED, AS NECESSARY, TO KEEP WATER LINES WITHIN THE RIGHT-OF-WAY.
- 19. A CONTINUOUS RUN OF DETECTABLE MARKING TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR SEWER MAINS AT APPROXIMATELY 12" TO 18" BELOW FINISHED GRADE. MARKING TAPE SHALL CONSIST OF A METABOLIZED FOIL LAMINATED BETWEEN TWO LAYERS OF COLOR CODED INERT PLASTIC FILM SUITABLE FOR LASTING AS LONG AS THE PIPE AND SHALL BE RESISTANT TO ALKALIS, ACIDS, AND OTHER DESTRUCTIVE AGENTS FOUND IN THE SOIL. THE PLASTIC FILM SHALL BE IMPRINTED WITH A CONTINUOUS MESSAGE: "CAUTION SEWER LINE BURIED BELOW". MESSAGE SHALL BE IN PERMANENT INK. MARKING TAPE SHALL BE A MINIMUM OF 2" WIDE AND 5.5 MIL. THICK AND STRENGTH OF AT LEAST 120 GRAMS PER 1.5 MIL. TAPE SHALL BE TYPE THAT CAN BE LOCATED BY ANY STANDARD ELECTRONIC PIPE LOCATOR. LOCATOR POST SHALL BE PLACED A MAXIMUM OF 500' SIGHT DISTANCE AND SHALL BE LOCATED AT EVERY HORIZONTAL DIRECTIONAL CHANGE FOR FORCE MAINS, LOCATOR POST SHALL BE 2 1/2" WIDE FIBER - REINFORCED COMPOSITE MATERIAL, APPROXIMATELY 66" LONG. POST SHALL BE LABELED WITH UV STABLE "NO PVC" AND COLOR CODED BLUE. POST SHALL BE INSTALLED IN VERTICAL PLANE ABOVE PIPE AND ANCHORED 18' TO 24".
- 20. ALL SEWER SERVICES SHALL BE PROPERLY MARKED ON THE FACE OF THE CURB WITH AN EMBOSSED "S". THE LETTER SHALL BE A MINIMUM OF 3" TALL.

# WATER AND SEWER NOTES: (CONT.)

21. A CONTINUOUS RUN OF DETECTABLE MARKING TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR WATER MAINS AT APPROXIMATELY 12" TO 18" BELOW FINISHED GRADE. MARKING TAPE SHALL CONSIST OF A METABOLIZED FOIL LAMINATED BETWEEN TWO LAYERS OF COLOR CODED INERT PLASTIC FILM SUITABLE FOR LASTING AS LONG AS THE PIPE AND SHALL BE RESISTANT TO ALKALIS, ACIDS, AND OTHER DESTRUCTIVE AGENTS FOUND IN THE SOIL. THE PLASTIC FILM SHALL BE IMPRINTED WITH A CONTINUOUS MESSAGE: "CAUTION WATER LINE BURIED BELOW". MESSAGE SHALL BE IN PERMANENT INK. MARKING TAPE SHALL BE A MINIMUM OF 2" WIDE AND 5.5 MIL. THICK AND STRENGTH OF AT LEAST 120 GRAMS PER 1.5 MIL. TAPE SHALL BE TYPE THAT CAN BE LOCATED BY ANY STANDARD ELECTRONIC PIPE LOCATOR. LOCATOR POST SHALL BE PLACED A MAXIMUM OF 500' SIGHT DISTANCE AND SHALL BE LOCATED AT EVERY HORIZONTAL DIRECTIONAL CHANGE. LOCATOR POST SHALL BE 2 1/2" WIDE FIBER - REINFORCED COMPOSITE MATERIAL, APPROXIMATELY 66" LONG. POST SHALL BE LABELED WITH UV STABLE " NO PVC" AND COLOR CODED BLUE. POST SHALL BE INSTALLED IN VERTICAL PLAIN ABOVE PIPE AND ANCHORED 18" TO 24".

22. ALL WATER SERVICES SHALL BE PROPERLY MARKED ON THE FACE OF THE CURB WITH AN EMBOSSED "W". THE LETTER SHALL BE A MINIMUM OF 3" TALL 23. ALL SANITARY SEWER MANHOLES WITH TOP ELEVATIONS BELOW THE 100-YEAR FLOOD PLAIN ELEVATION SHOULD BE WATER TIGHT MANHOLE TOPS.

# AS-BUILT REQUIREMENTS:

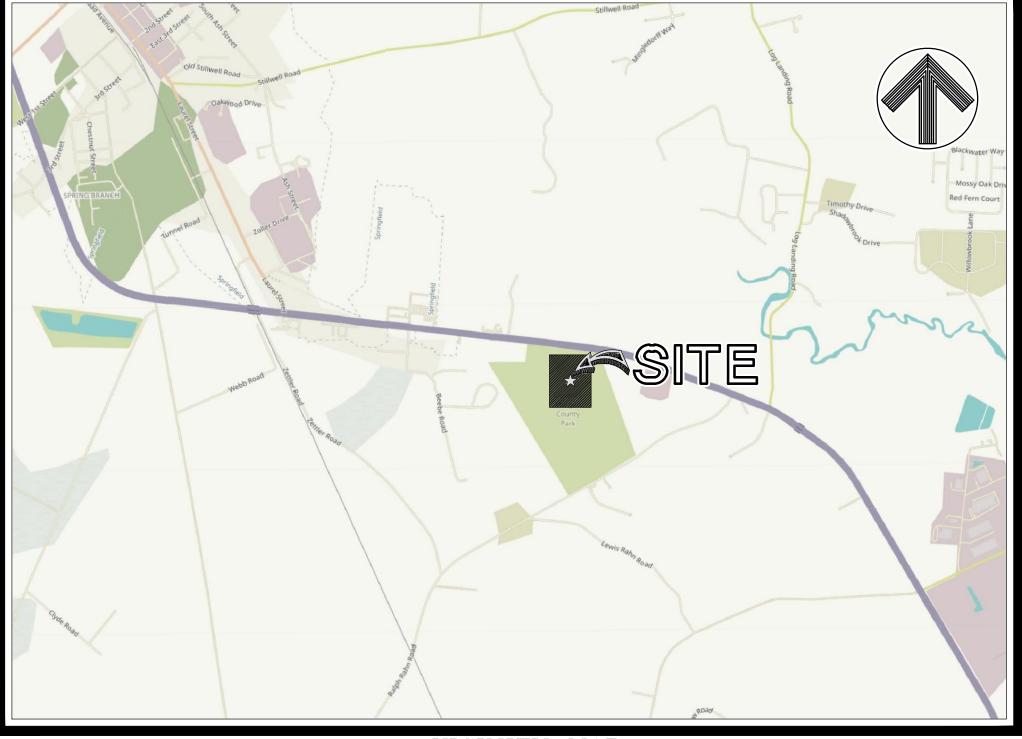
- 1. CONTRACTOR SHALL FURNISH AS-BUILT DATA TO THE ENGINEER MEETING THE REQUIREMENTS OF EFFINGHAM COUNTY FOR CLOSE-OUT. THESE REQUIREMENTS ARE SUMMARIZED AS FOLLOWS: A. WATER SYSTEM - LOCATION AND SIZE OF WATER VALVES, METERS, BACKFLOW PREVENTERS, HYDRANTS, POST INDICATORS, TEES, BENDS AND OTHER WATER SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR THE TOP OF PIPE AT ALL SUCH FEATURES. FOR WATER MAINS, THE LENGTH, SIZE AND PIPE MATERIAL SHALL BE INDICATED ALONG WITH SPOT ELEVATIONS ON THE TOP OF PIPE. ADDITIONALLY, A DISTANCE TO AN ADJACENT PERMANENT FEATURE SHALL BE PROVIDED FOR ALL VALVES.
  - B. SEWER SYSTEM LOCATION OF MANHOLES, CLEAN-OUTS, FORCE MAIN AIR RELEASE OR OTHER TYPE VALVES, FORCE MAIN BENDS, AND OTHER SEWER SYSTEM FEATURES. TO INCLUDE ELEVATIONS FOR MANHOLE TOPS AND INVERTS OF THE CONNECTING PIPES, AND THE TOP OF PIPE AT ALL FORCE MAIN FEATURES. FOR SEWER AND FORCE MAINS, THE LENGTH, SIZE AND PIPE MATERIAL SHALL BE INDICATED ALONG WITH SPOT ELEVATIONS ON THE TOP OF FORCE MAIN PIPE. ADDITIONALLY, A DISTANCE TO AN
  - ADJACENT PERMANENT FEATURE SHALL BE PROVIDED FOR ALL VALVES. C. STORM SYSTEM - LOCATION OF MANHOLES, INLETS, DRAINS, OUTLET CONTROL STRUCTURES, CLEAN-OUTS, TEES AND BENDS, AND OTHER STORM SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR STRUCTURE TOPS, THROATS, FLOW LINES, AND INVERTS OF THE CONNECTING PIPES. FOR STORM PIPES, THE LENGTH, SIZE AND PIPE MATERIAL SHALL BE INDICATED. FOR OUTLET CONTROLS, THE SIZE AND ELEVATION OF ANY WEIRS, PIPES, ORIFICES, RESTRICTOR PLATES OR OTHER CONTROLLING FEATURE SHALL BE PROVIDED.
  - D. DETENTION AND WATER QUALITY BASINS FOR ALL PONDS AND BASINS, LOCATIONS AND ELEVATIONS SHALL BE PROVIDED FOR THE TOP OF BANK, TOE OF SLOPE, BOTTOM, WATER ELEVATION AND ANY OTHER FEATURES AS NECESSARY TO ALLOW THE AS-BUILT VOLUME OF THE BASIN TO BE CALCULATED.
- E. PAVEMENT SPOT ELEVATIONS SHALL BE PROVIDED ON ALL NEW PAVEMENT, WITH THE SPOT ELEVATION POINTS TO BE TAKEN IN THE SAME LOCATIONS AS THE PROPOSED SPOT GRADES SHOWN ON THE PAVING PLAN.

ANY QUESTIONS OR CLARIFICATIONS ON THE ABOVE AS-BUILT INFORMATION THAT IS REQUIRED BY THE COUNTY SHALL BE ADDRESSED TO COUNTY STAFF AT THE MANDATORY EFFINGHAM COUNTY PRE-CONSTRUCTION MEETING.

<u>SITE DATA</u>	
ZONE	R-1, B-1
TOTAL PROJECT ACREAGE	119.15 ACRES
DISTURBED AREA	1.80 ACRES
EFFINGHAM COUNTY PIN	S131-7, S131-9

# FLOOD ZONE NOTE:

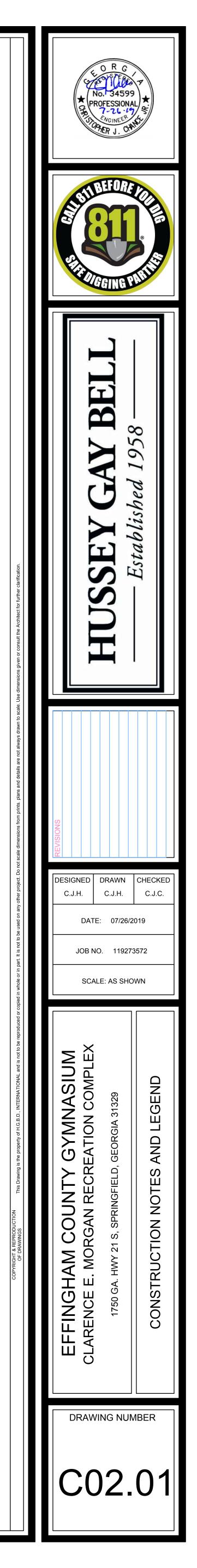
IN MY OPINION, IN ACCORDANCE WITH FIRM MAPS NO. 13103C0256E AND NO. 13103C0257E, EFFECTIVE DATE: MARCH 16, 2015, THIS PROPERTY DOES NOT FALL WITHIN THE LIMITS OF THE 100 - YEAR FLOOD PLAIN. (ZONE "X")

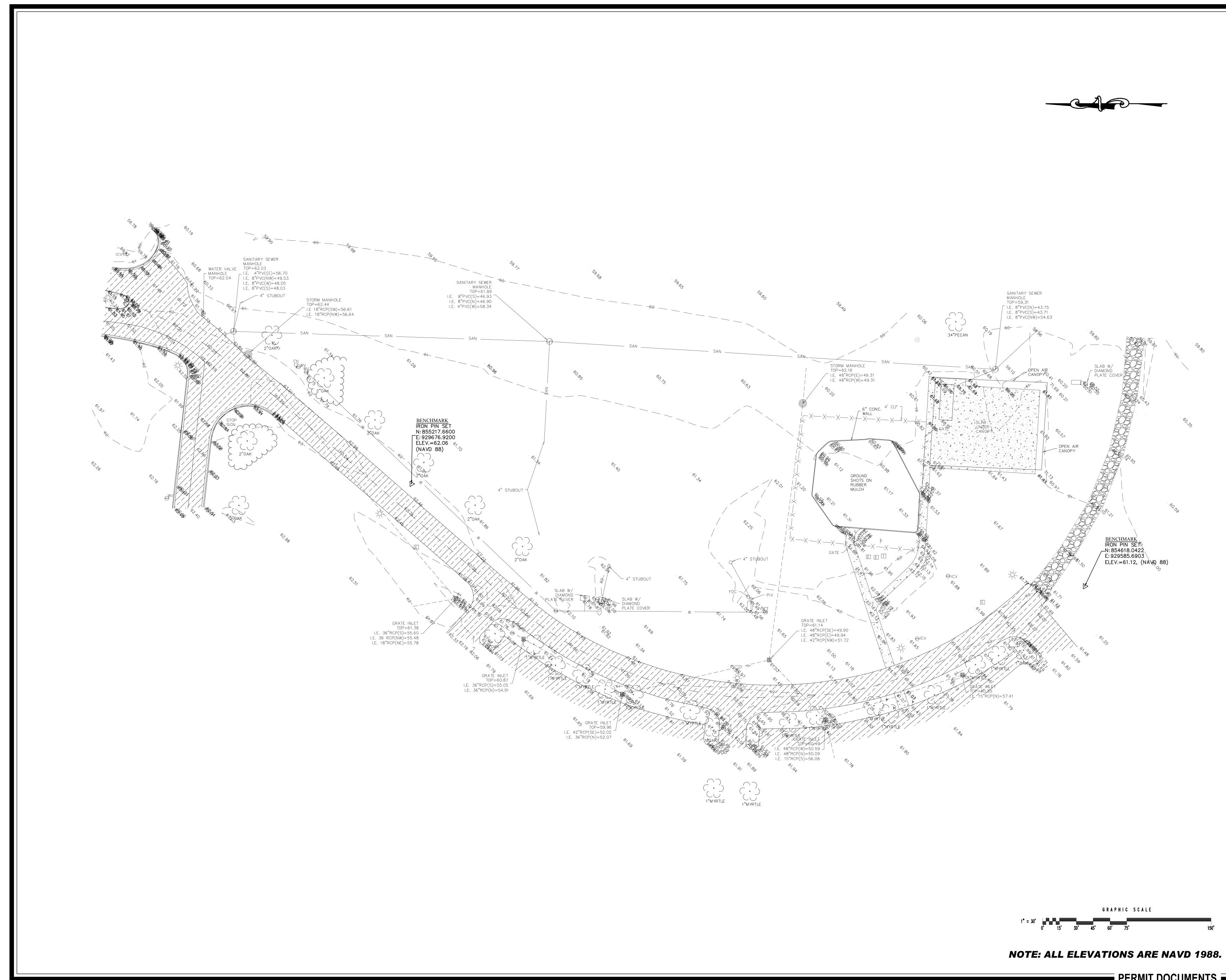


# VICINITY MAP

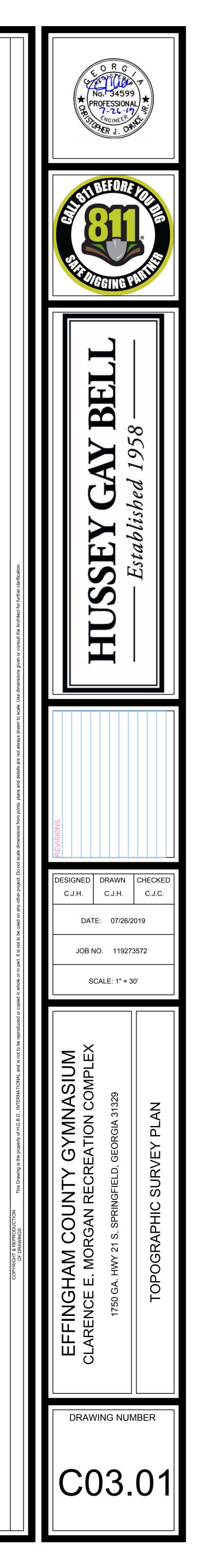
# **LEGEND:**

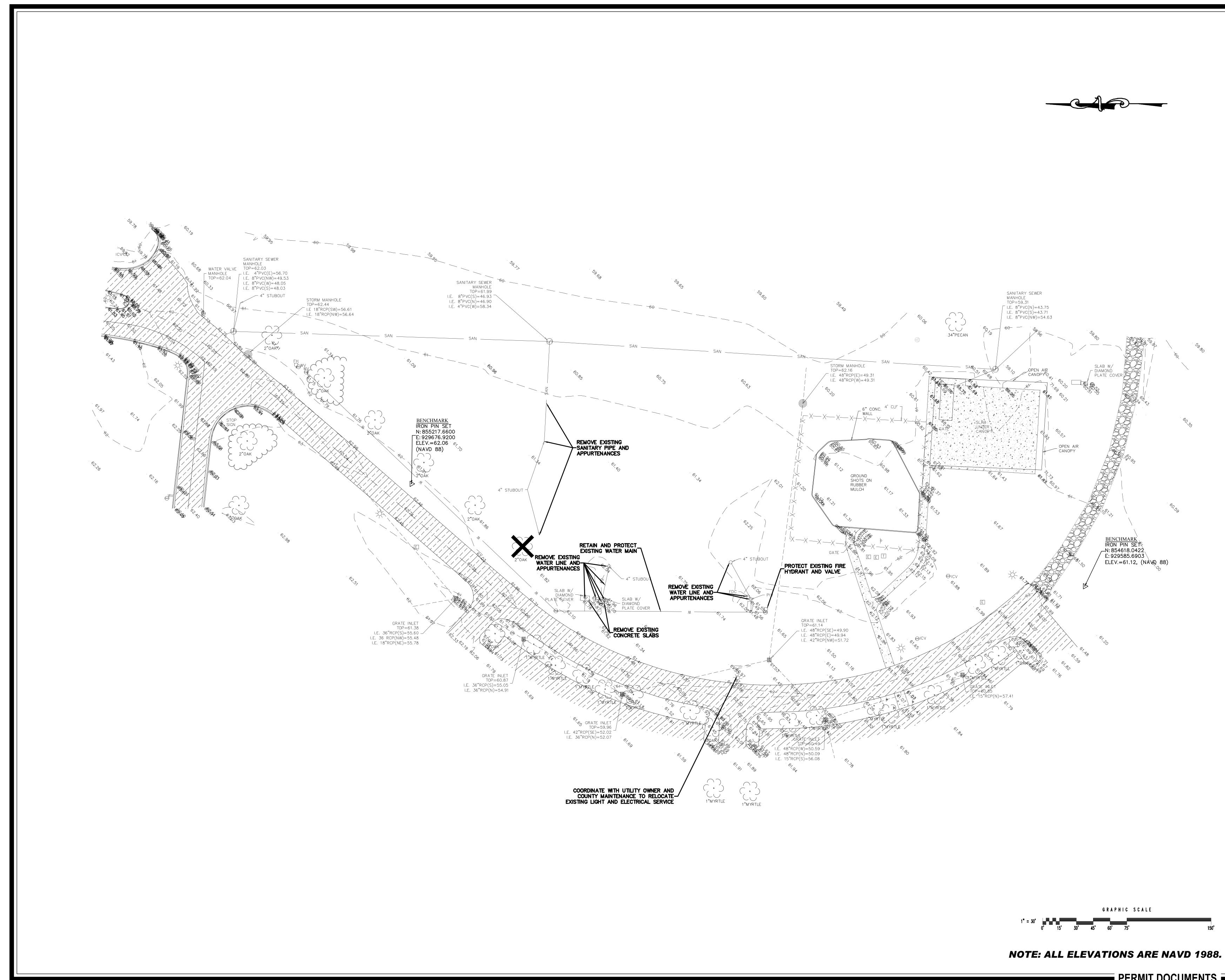
	EXISTING	PROPOSED
ASPHALT PAVEMENT (STANDARD)		
CONCRETE SIDEWALK		
STORM DRAINAGE PIPE		
STORM DRAINAGE INLET		
STORM DRAINAGE MANHOLE		
SANITARY SEWER PIPE		
SANITARY SEWER MANHOLE	(S	
FORCE MAIN	————FM———	
WATER MAIN	W	6 <b>*</b>
WATER VALVE		 
FIRE HYDRANT	,Y	<u>7</u> ,
CONTOURS	17	19
FINISHED GRADE (EARTH)	<sup>୵</sup> ଟ 'ଦୁ	+ FG225.0
FINISHED GRADE (TOP PAVEMENT)		+ TP224.3
FINISHED GRADE (TOP WALK)		+ TW224.8
DEMO EXISTING TREE		X
		<b>Vin</b>
SOILS		
	-	⊃ <sub>n</sub>



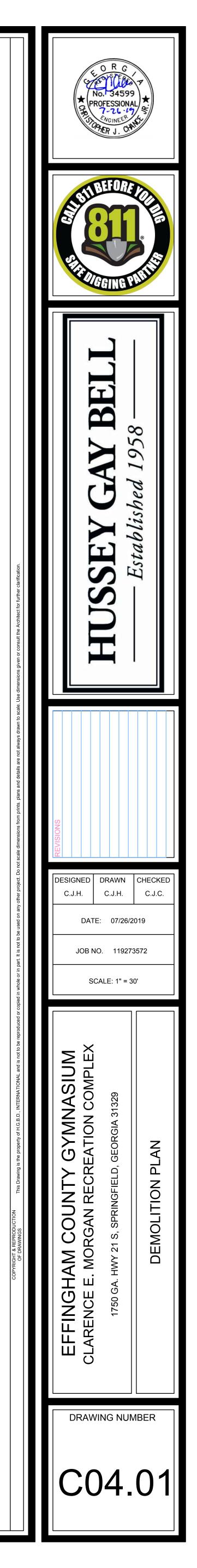


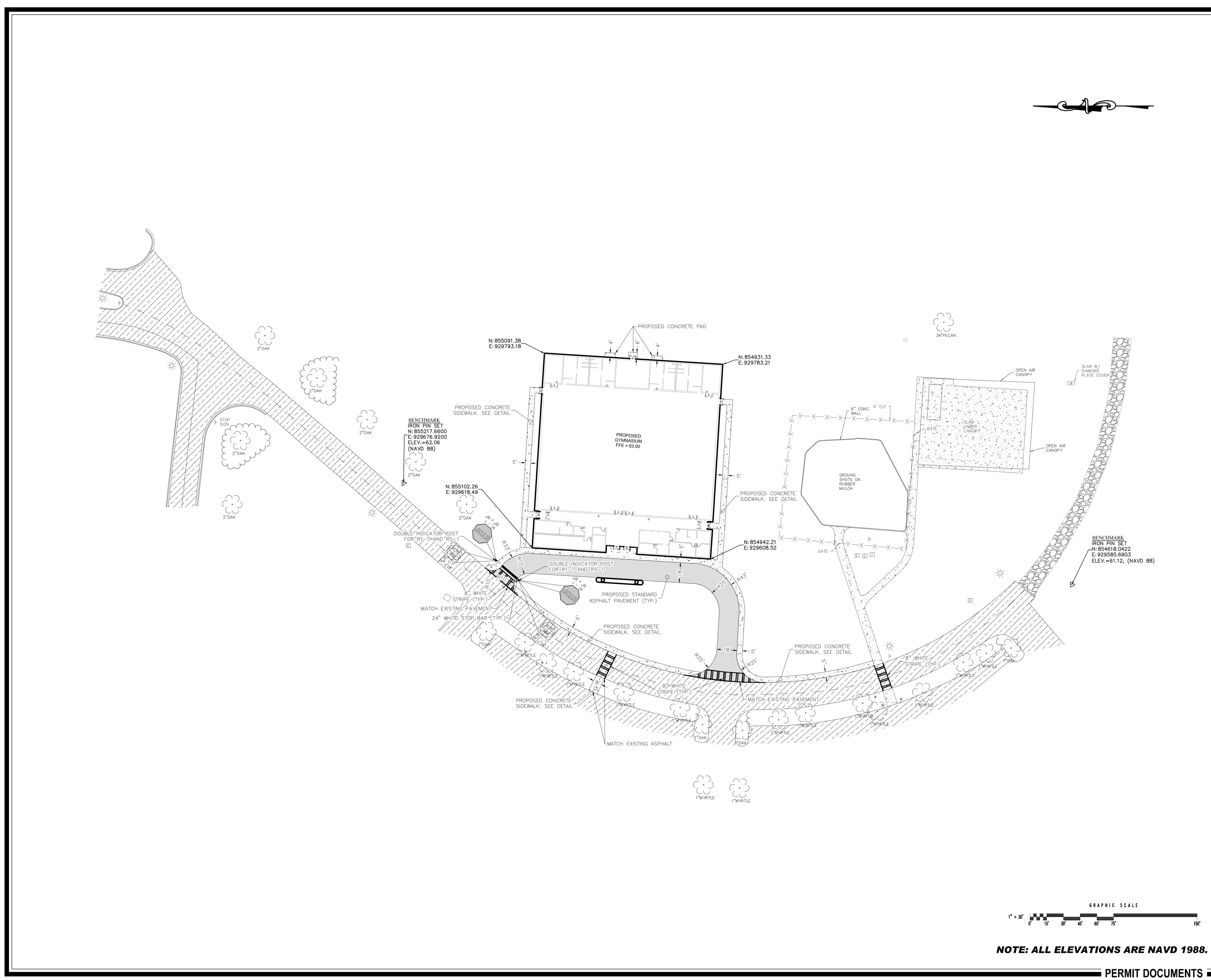




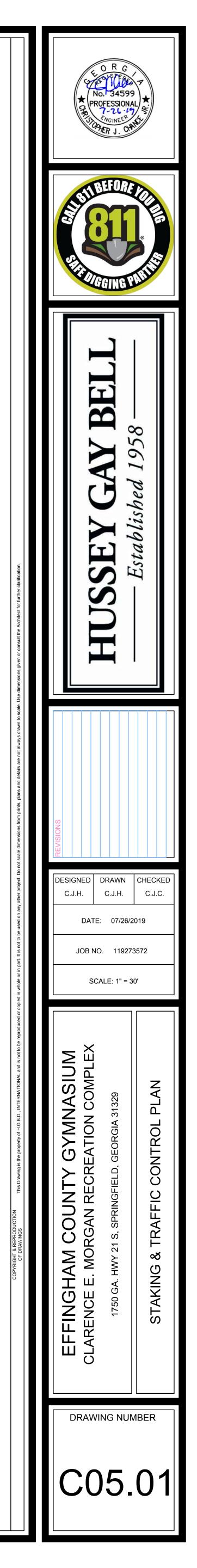


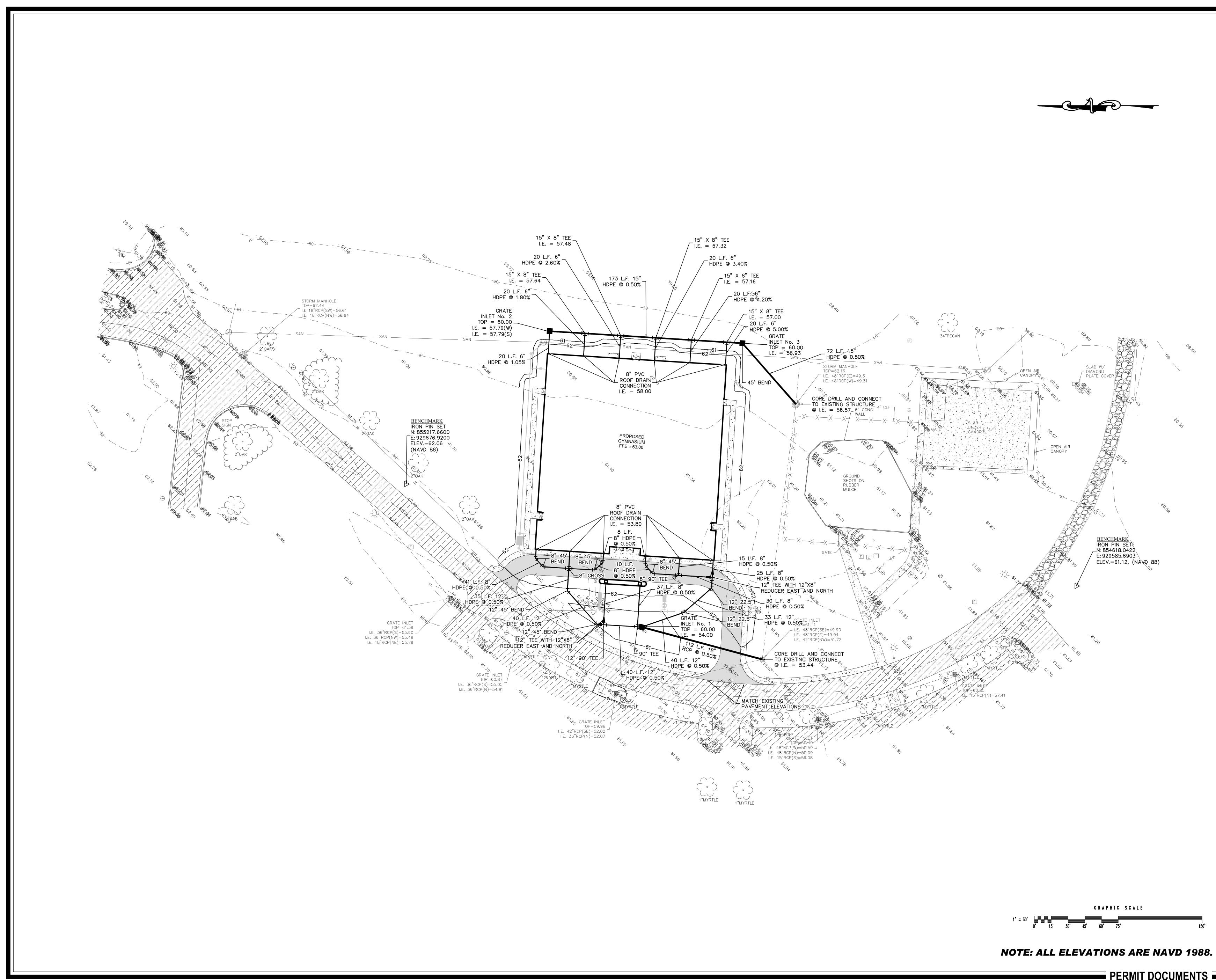




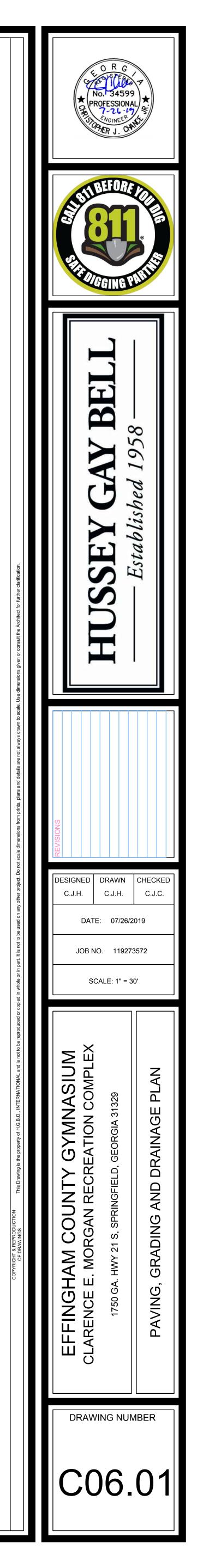


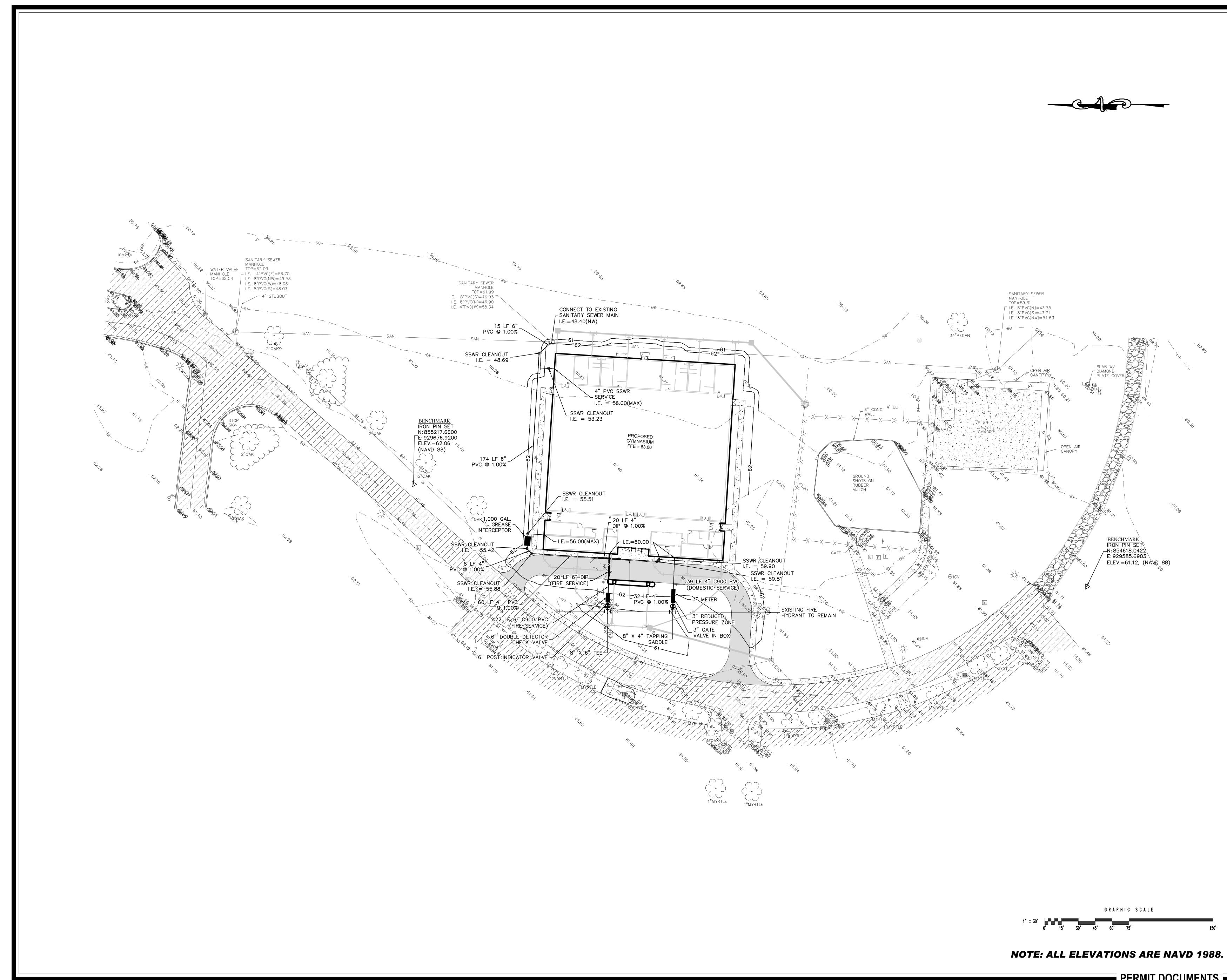




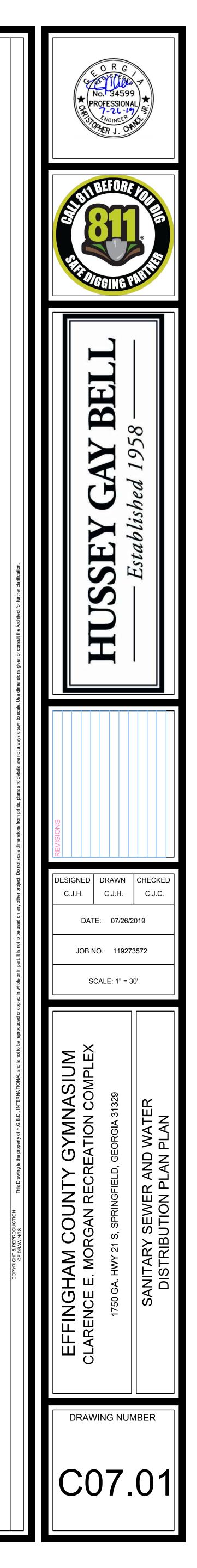


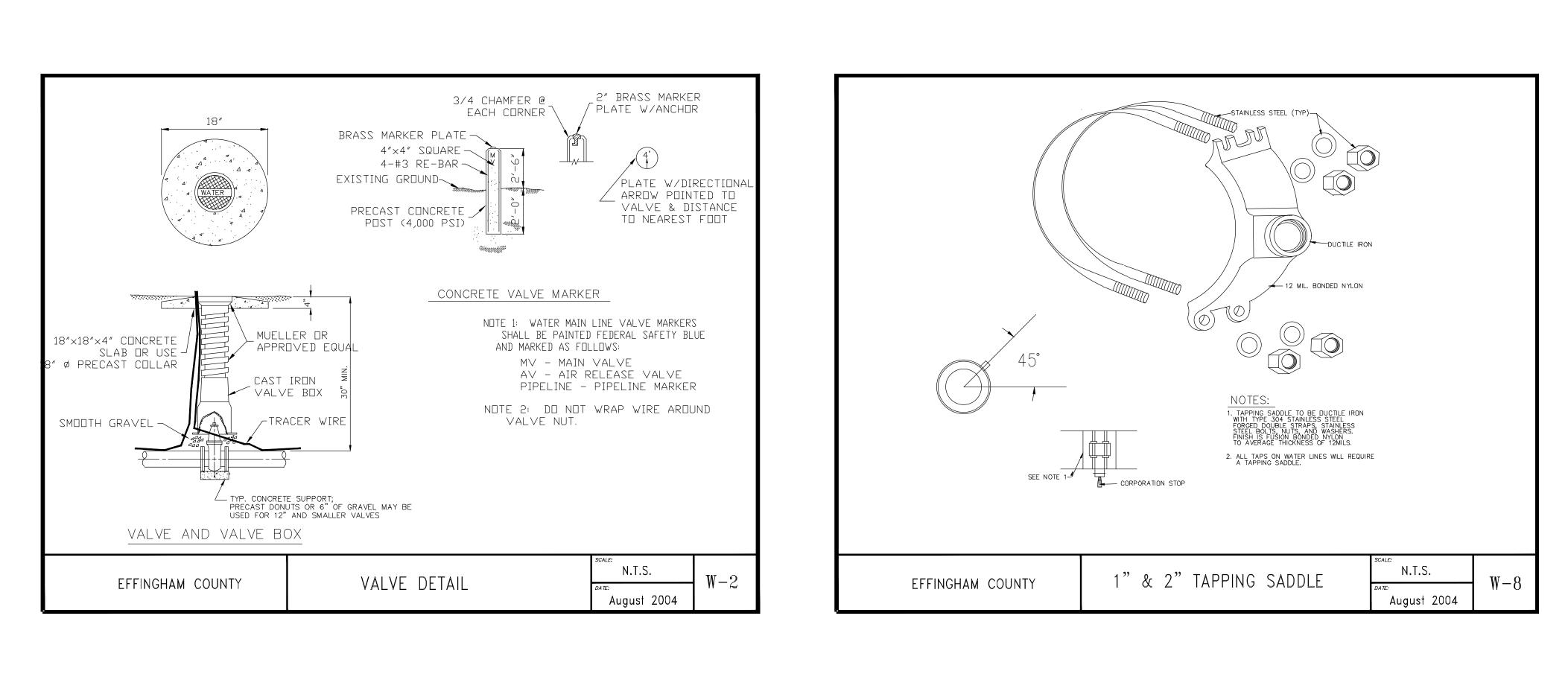


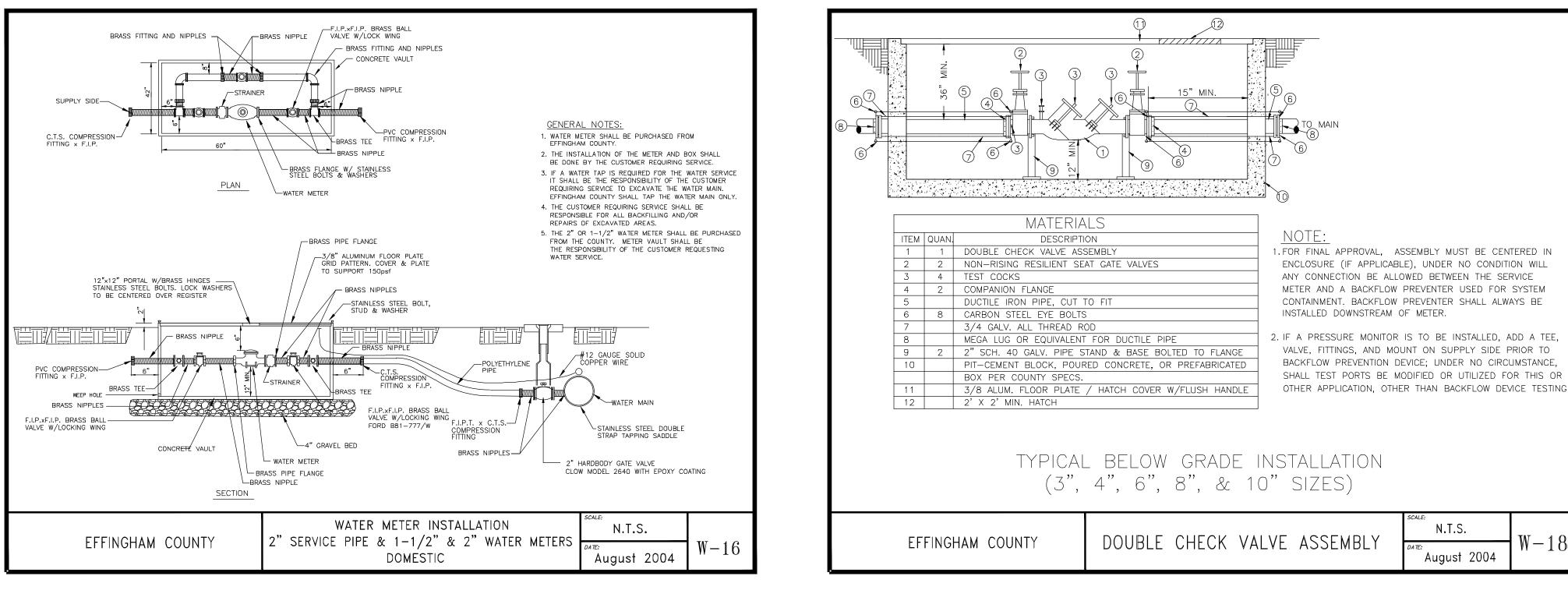




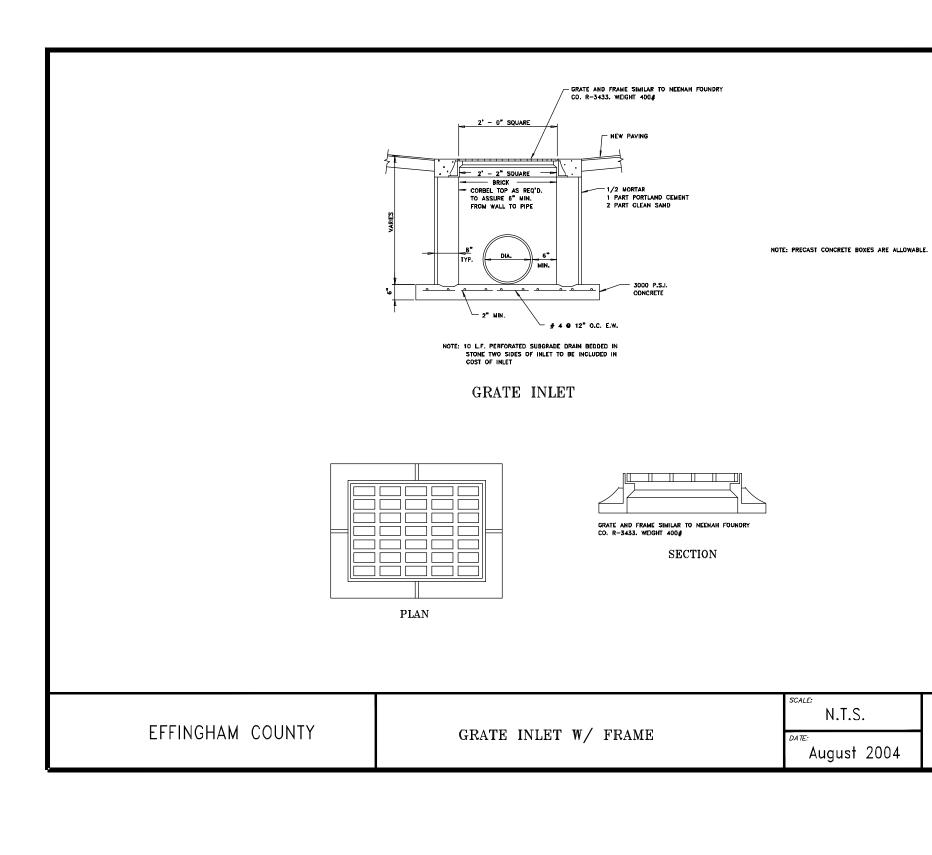


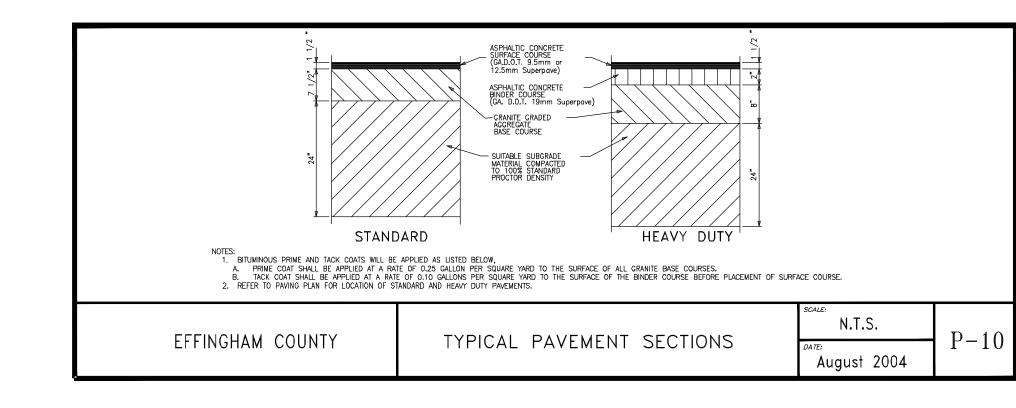


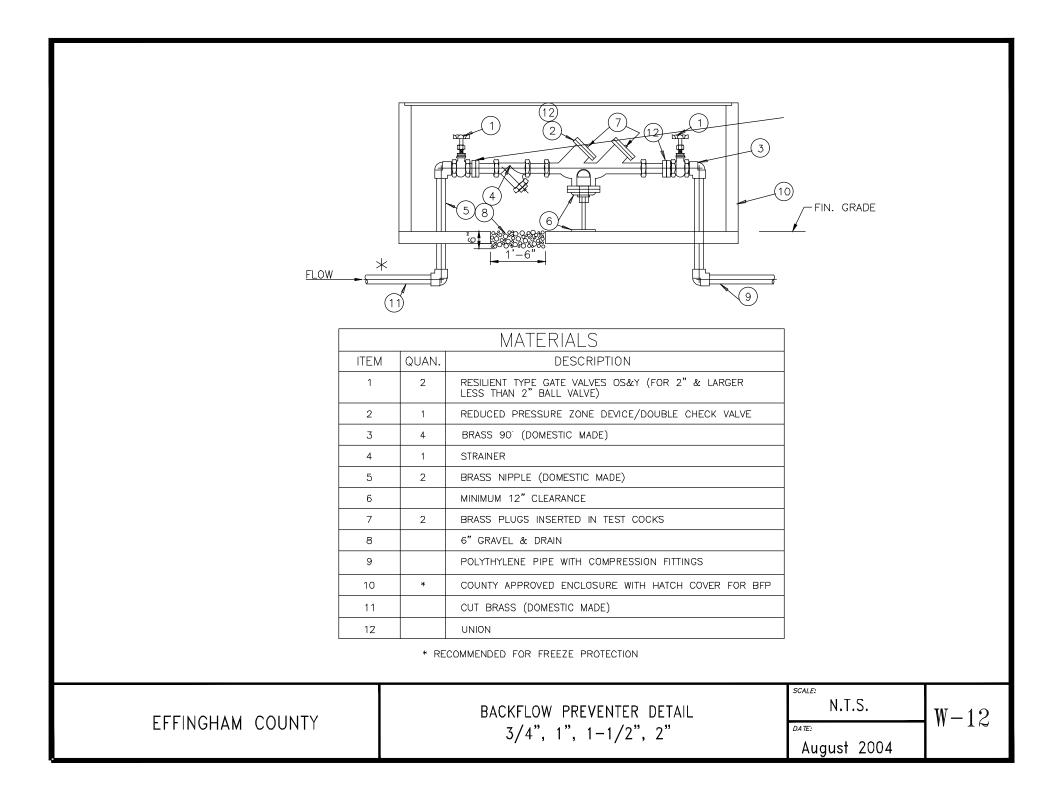


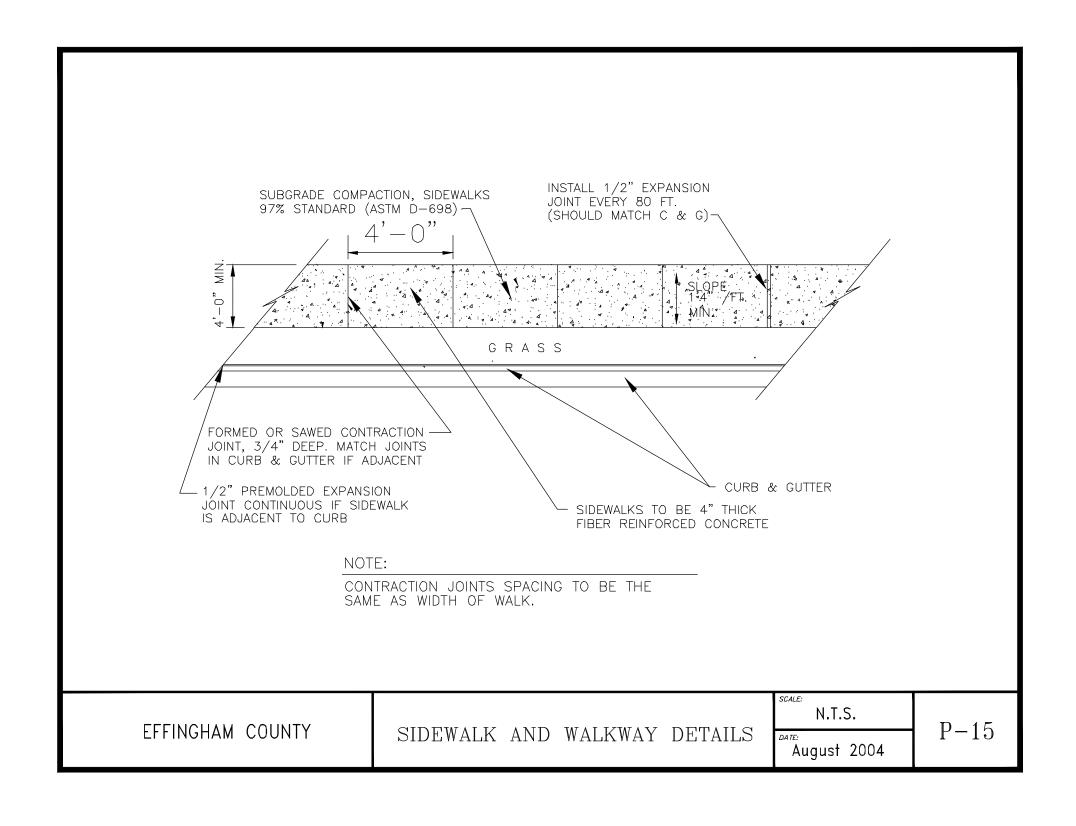


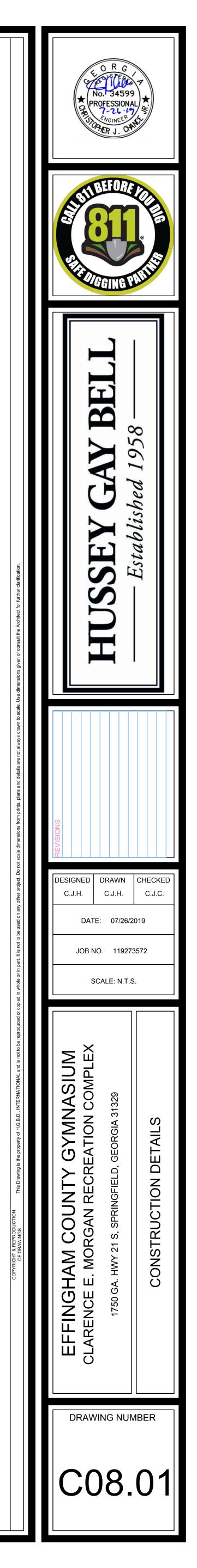
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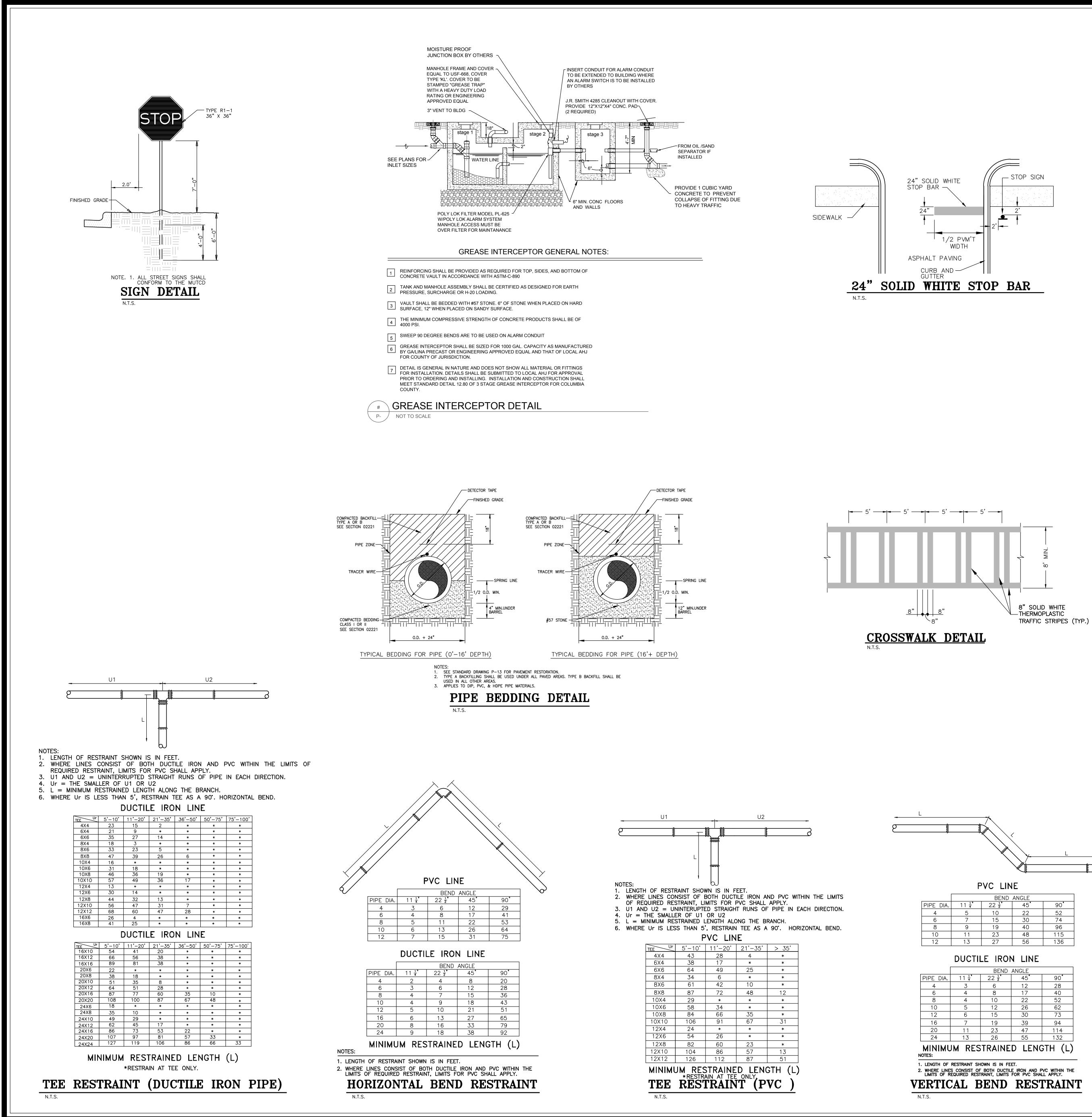










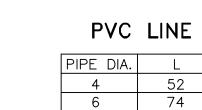


DEAD END RESTRAINT N.T.S.

NOTES: 1. LENGTH OF RESTRAINT SHOWN IS IN FEET. 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

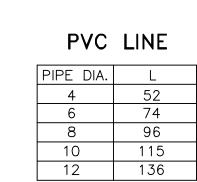
DL	UCTILE	IRON	LI	NE			Ρ
	PIPE DIA.	L					PIPE
	4	28					4
	6	40					6
	8	52					8
	10	62					1C
	12	73					12
	16	94				·	
	20	114					
	24	132					



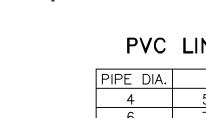




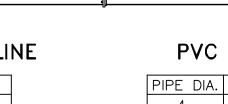


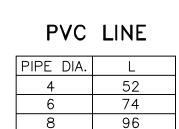


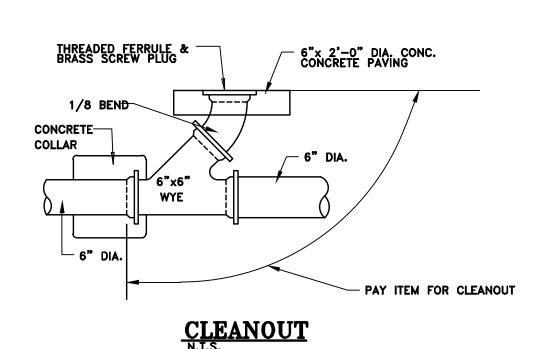


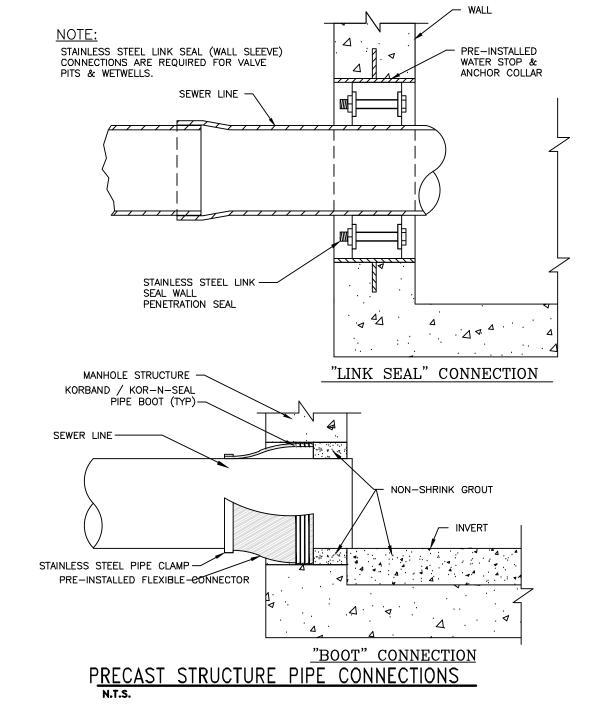


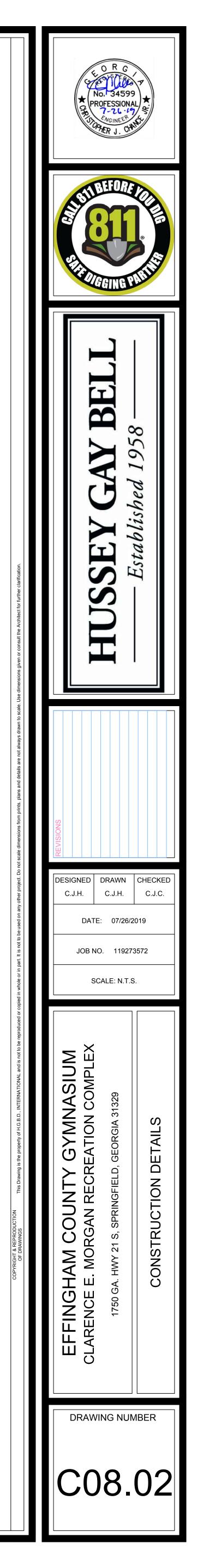












# EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES:

	EBO:						
	SWCD: _O	STAND ALONE (	CONSTRUCTION PROJECTS		(2)		
City/County:_EFFING	SHAM COUNTY	· · ·	Date on Plans: _08/02/2019		3		
lling out checklist:_C <b>Plan</b>	HRISTOPHER HE Included	ROLD, cherold@husseyg	aybell.com TO BE SHOWN ON ES&PC PLAN				
Page #	<b>Y/</b> N	The applicable Erosion, Sedir	entation and Pollution Control Plan Checklist establishe	d by the Commission as of January 1			
		of the year in which the land-d Plan or the Plan will not be rev	isturbing activity was permitted. (The completed Checkli riewed)	st must be submitted with the ES&PC	4		
ALL SHEETS	<b>Y</b> 2		ued by the Commission, signature and seal of the certifi be on each sheet pertaining to ES&PC plan or the Plar		$\bigcirc$		
N/A	<b>N</b> <sup>3</sup>	Limits of disturbance shall be n	ogreater than 50 acres at any one time without prior wi	ritten authorization from the EPD	5		
		the BMPs listed in Appendix 1	s the request to disturb 50 acres or more at any one tim of this checklist.* (A copy of the written approval by EPI				
SHEET 10	<b>Y</b> 4	plan to be reviewed.) The name and phone number	of the 24-hour local contact responsible for erosion, se	dimentation and pollution controls.	$\frown$		
SHEET 10			ess, address and phone number of primary permittee.		<b>(6</b> )		
SHEET 10			ge of the project or phase under construction. e construction exit for the site. Give the Latitude and Lor	naitude in decimel decrees			
SHEET 10 SHEET 10			dates of any revisions made to the Plan including the en		(7)		
SHEET 10	<b>Y</b> 9				Ŭ		
SHEET 10 SHEET 10			site's relation to surrounding areas. Include designation aters and describe all sensitive adjacent areas including		9		
SHEET 10	<b>Y</b> 12	wetlands, marshlands, etc. wh 2 Design professional's certificati	ch may be affected. on statement and signature that the site was visited prior	to development of the ES&PC Plan	$\bigcirc$		
		as stated on Part IV page 19 c	f the permit				
SHEET 10	<b>Y</b> 13		on statement and signature that the permittee's ES&PC F ?s and sampling to meet permit requirements as stated o				
SHEET 10	<b>Y</b> 14		"The design professional who prepared the ES&PC Pk				
		initial sediment storage require IV.A.5 page 25 of the permit.*	ements and perimeter control BMPs within 7 days after in	nstallation" in accordance with Part			
SHEET 10	<b>Y</b> 15		"Non-exempt activities shall not be conducted within the point of wrested vegetation or within 25-feet of the coasta				
SHEET 10	<b>y</b> 16		Line without first acquiring the necessary variances an uffer encroachments and indicate whether a buffer varia				
SHEET 10 SHEET 10		Clearly note the statement that	"Amendments/revisions to the ES&PC Plan which have				
SHEET 10	γ 18		certified by the design professional."* "Waste materials shall not be discharged to waters of th	e State, except as authorized by a			
SHEET 10	<b>v</b> 19	section 404 permit "* Clearly note statement that "Th	e escape of sediment from the site shall be prevented b	v the installation of erosion and			
		sediment control measures an	d practices prior to land disturbing activities."	-			
SHEET 10	<b>Y</b> 20	· ·	osion control measures will be maintained at all times. If tive erosion control, additional erosion and sediment co course "		$\frown$		
SHEET 10	<b>Y</b> 21	Clearly note the statement "An	y disturbed area left exposed for a period greater than 1	14 days shall be stabilized with mulch	(10)		
SHEET 10	<b>Y</b> 22	or temporary seeding." 2 Any construction activity which	discharges storm water into an Impaired Stream Segm	ent, or within 1 linear mile upstream of			
0.122.20		and within the same watershee	las, any portion of an Biota Impaired Stream Segment i Appendix 1 listing all the BMPs that will be used for thos	must comply with Part III. C. of the			
	<b>Y</b> 23	the Impaired Stream Segment.	* for sediment has been finalized for the Impaired Stream	n Segment (identified in item 22			
SHEET 10	Y 20		r to submittal of NOI, the ES&PC Plan must address any				
SHEET 10	<b>Y</b> 24		of tools, concrete mixer chutes, hoppers and the rear o	fthe vehicles. Washout of the drum			
SHEET 10	<b>Y</b> 25	at the construction site is prohit Provide BMPs for the remedia	ion of all petroleum spills and leaks.				
SHEET 10		B Description of the measures th	Description of the measures that will be installed during the construction process to control pollutants in storm water that will				
SHEET 10	<b>Y</b> 27	occur after construction operat Description of practices to prov	ons have been completed." ide cover for building materials and building products o	n site.*			
SHEET 10			t will be used to reduce the pollutants in storm water disc	-			
SHEET 10	<b>Y</b> 29	site (i.e., initial perimeter and s	e of the intended sequence of major activities which dist ediment storage BMPs, clearing and grubbing activities,				
SHEET 10	<b>Y</b> 30	temporary and final stabilization Provide complete requirement	1). s of inspections and record keeping by the primary perr	nittee.*			
SHEET 11	<b>Y</b> 31	Provide complete requirement	s of sampling frequency and reporting of sampling resul	ts.*			
SHEET 11 SHEET 11	<u> </u>	•	tention of records as per Part IV.F. of the permit* ds to be used to collect and analyze the samples from ea	ach location *			
SHEET 11			values at all outfall sampling points where applicable.*				
SHEET 11	<b>γ</b> 35	Delineate all sampling location: discharged.*	s, perennial and intermittent streams and other water bo	dies into which storm water is			
SHEET 11	<b>Y</b> 36		ntrols and measures that will be implemented at the con-	-			
		final BMPs. For construction si	uirements and perimeter control BMPs, (2) intermediate es where there will be no mass grading and the initial p and find DMPs are the arms of the national structure interview.	perimeter control BMPs, intermediate			
		grading and drainage BIMPs, :	and final BMPs are the same, the plan may combine all	or the BIMP's into a single phase."			
ALL PLAN SHEETS	γ 37 γ 38	·	v. Iines with contour lines drawn at an interval in accorda	nce with the following:			
		Map Scale	Ground Slope	Contour Intervals, ft.			
		1 in ch = 100 ft or larger scale	Flat0-2% Rolling2-8%	0.5 or 1 1 or 2			
N/A	N 39	Use of alternative BMPs whos	Steep 8% + e performance has been documented to be equivalent t	2,5 or 10 o or superior to conventional BMPs			
		as certified by a Design Profes	sional (unless disapproved by EPD or the Georgia Soi he Alternative BMP Guidance Document found at www.	l and Water Conservation			
N/A	<b>N</b> 40	) Use of alternative BMP for app	lication to the Equivalent BMP List. Please refer to Appe	о о			
N/A	<b>N</b> 41		5-foot or 50-foot undisturbed buffers adjacent to state wa	-			
N/A			Authority. Clearly note and delineate all areas of impact and all state waters located on and within 200 feet of the		(12)		
N/A SHEETS 12, 13, 14			and an state waters located on and within 200 leet of the htributing drainage basins on the project site.		$\smile$		
SEE CALCS			maps of drainage basins for both the pre- and post-dev				
SEE CALCS	<b>Y</b> 45	<ul> <li>An estimate of the runoff coeffic</li> </ul>	ient or peak discharge flow of the site prior to and after o	construction activities are completed.			
N/A	<b>N</b> 46	Storm-drain pipe and weir vel Identify/Delineate all storm wat	octies with appropriate outlet protection to accommodate er discharge points.	discharges without erosion.	$\frown$		
SHEETS 12, 13, 14		' Soil series for the project site a			(13)		
SHEETS 12, 13, 14 SHEETS 12, 13, 14		3 The limits of disturbance for ea 9 Provide a minimum of 67 cubio	ch phase of construction. : yards of sediment storage per acre drained using a ter	mporary sediment basin, retrofitted			
01121012,20,21		detention pond, and/or excava	ted inlet sediment traps for each common drainage loca all land disturbance activities until final stabilization of the	tion. Sediment storage volume must			
			ion to use equivalent controls when a sediment basin is e location in which a sediment basin is not provided. A				
		yards of storage is not attain ab	le must also be given. Worksheets from the Manual inc le design professional to obtain the required sediment w	luded for structural BMPs and all			
		discharging from sediment bas	ins and impoundments, permitees are required to utilize ble. If outlet structures that with draw water from the surfa	outlet structures that withdraw water			
<b>•</b> •••••••••••••••••••••••••••••••••••			sion must be included in the plan.				
SHEETS 12, 13, 14	<b>Y</b> 50	=	Practices that are consistent with and no less stringent th Use uniform coding symbols from the Manual, Chapter (				
SHEET 15	<b>Y</b> 51	Provide detailed drawings for Manual for Erosion and Sedirr	all structural practices. Specifications must, at a minimum ent Control in Georgia.	n, meet the guidelines set forth in the			
SHEET 11	<b>γ</b> 52		g all temporary and permanent vegetative practices. In ching rates. Vegetative plan shall be site specific for ap				
			opriate geographic region of Georgia. ect that is less than 1 acre and not part of a common dev	velopment but with in 200 fl of a			
		perennial stream the * checklis		Effective January 1, 2019			
				Encouve January 1, 2019			

# LEVEL II CERTIFICATION:

THE CERTIFIED DESIGN PROFESSIONAL. (SEE PROFESSIONAL SEAL) LIMIT OF DISTURBANCE

## LIMIT OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. IF EPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME, THE PLAN MUST INCLUDE AT LEAST 4 OF THE BMPS LISTED IN APPENDIX 1 OF THIS CHECKLIST. 24-HOUR LOCAL EROSION AND SEDIMENTATION CONTROL CONTACT:

C.J. CHANCE, P.E. (912) 354-4626

## PRIMARY PERMITTEE INFORMATION: BILLY BECKETT, EFFINGHAM COUNTY

601 N LAUREL STREET SPRINGFIELD, GEORGIA, 31406 912-754-21111 bbeckett@effinghamcounty.org

TOTAL ACREAGE / DISTURBED ACREAGE ESTIMATED TOTAL SITE ACREAGE: 119.2 ACRES TOTAL DISTURBED AREA DEVELOPMENT: 1.8 ACRES

## CONSTRUCTION EXIT LATITUDE: 32.3474° N LONGITUDE: 81.2815° W

PLANTINGS.

# DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY:

THIS PROJECT IS FOR THE CONSTRUCTION OF A NEW RECREATIONAL GYM. MINIMAL DEMOLITION OF ON-SITE UTILITIES AND APPURTENANCES. AS WELL AS A TREE, WILL TAKE PLACE PRIOR TO CONSTRUCTION. THE SITE IS LOCATED IN EFFINGHAM COUNTY, GEORGIA AND IS COMPRISED OF TWO PARCELS WITH PARCEL IDENTIFICATION NUMBERS (PIN) S131-7, S131-9. PER THE EFFINGHAM COUNTY TAX MAPS. THE PROPOSED DEVELOPMENT IS ESTIMATED TO DISTURB APPROXIMATELY 1.80 (+) ACRES. EXISTING SITE ELEVATIONS RANGE FROM 62' ALONG THE MAIN ROAD TO 60' BEHIND THE PROPOSED GYMNASIUM. THE EXISTING SITE GENERALLY SLOPES UNIFORMLY FROM WEST TO EAST AT 0.8%. THE EXISTING SITE IS MOSTLY UNDEVELOPED, AS THERE IS AN EXISTING ROAD AND PARKING LOT TO SERVE THE SITE, AS WELL AS UNDERGROUND UTILITIES. PROJECT SCOPE ENTAILS DEMOLITION OF WATER LATERALS AND VAULTS, SANITARY SEWER LATERALS AND APPURTENANCES, A TREE, AND A LIGHT POLE. SOIL EROSION AND SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE USE OF BEST MANAGEMENT PRACTICES FROM GEORGIA'S MANUAL FOR EROSION AND SEDIMENT CONTROL. THE TRACKING OF SOIL ONTO ADJACENT PAVED ROADWAYS WILL BE ADDRESSED BY THE USE OF A TEMPORARY CONSTRUCTION EXIT. RUNOFF FROM THE DISTURBED AREAS OF THE SITE WILL BE FILTERED BY THE USE OF TEMPORARY SEDIMENT BARRIERS (SILT FENCING). AS DEVELOPMENT PROGRESSES, NEW (24) STORM INLETS WILL BE PROTECTED BY INLET SEDIMENT TRAPS. FINAL STABILIZATION WILL BE ACCOMPLISHED BY PERMANENT GRASSING AND SITE LANDSCAPING BEDS AND



## VICINITY MAP SCALE: 1" = 2000'

THE PROJECTS RECEIVING WATERS ARE A RECEIVING WATERS NAME. STATE WATERS ARE NOT LOCATED ON OR WITHIN 200' OF THE PROJECT SITE.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

## han 7/26/19 ENGINEER'S SIGNATURE **GSWCC CERTIFICATION NO.** 0000061303

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

han <u>7/26/19</u> ENGINEER'S SIGNATURE **GSWCC CERTIFICATION NO.** 0000061303

- THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE (29) LEVEL I CERTIFICATION: LEVEL I CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF 14 INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
  - NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN ANY 25 OR 50-FOOT (15) UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
  - DESCRIPTION OF BUFFER ENCROACHMENT: NO BUFFER ENCROACHMENTS ARE PROPOSE
  - AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BUMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN
  - PROFESSIONAL WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS (18) AUTHORIZED BY A SECTION 404 PERMIT.
  - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION 19 OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
  - EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
  - ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE (21) STABILIZED WITH MULCH OR TEMPORARY SEEDING.
  - THIS PROJECT DOES NOT DISCHARGE INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 (22) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT. ANY PROJECT DISCHARGING INTO A BIOTA IMPAIRED STREAM SEGMENT. OR WITHIN W MILE UPSTREAM AND WITHIN SAME WATERSHED MUST COMPLY WITH PART III. C. OF THE PERMIT.
  - IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED (23) STREAM SEGMENT (IDENTIFIED IN ITEM 22 ABOVE) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.
  - BMPs FOR CONCRETE WASHDOWN OF TOOLS. CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
  - SPILL CLEANUP AND CONTROL PRACTICES LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL
  - MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
  - 3. SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
  - 4. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. 5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), AND FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC)
  - SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. 7. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802
  - 8. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACT, THE GEORGIA EPD SHALL BE CONTACTED WITHIN 24 HOURS. 9. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.
  - DESCRIPTIONS OF THE MEASURES THAT WILL BE INSTALLED DURING CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER ONSTRUCTION OPERATIONS HAVE BEEN COMPLETE: HE FOLLOWING POTENTIAL POLLUTANTS ARE EXPECTED ON-SITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUEL AND LUBRICANTS FOR EQUIPMENT, TAR, METAL REINFORCING, PAINTS/FINISHES, LUMBER, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC, METAL, AND CONCRETE PIPES. THE CONTROL OF THESE POLLUTANTS WILL BE ACCOMPLISHED WITH BEST MANAGEMENT PRACTICES AS SET FORTH IN THE GEORGIA'S MANUAL FOR EROSION AND SEDIMENT

CONTROL.

DESCRIPTIONS OF THE PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND (27) BUILDING PRODUCTS ON SITE: HE CONTRACTOR SHALL US PLASTIC SHEETING OR TEMPORARY ROOFS TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

## STORMWATER DISCHARGES: THE FOLLOWING POTENTIAL POLLUTANTS ARE EXPECTED ON-SITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUEL AND LUBRICANTS FOR EQUIPMENT, TAR, METAL REINFORCING, PAINTS/FINISHES, LUMBER, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC, METAL, AND CONCRETE PIPES. THE CONTROL OF THESE POLLUTANTS WILL BE ACCOMPLISHED WITH BEST MANAGEMENT PRACTICES AS SET FORTH IN THE GEORGIA'S MANUAL FOR EROSION AND SEDIMENT CONTROL

- PRODUCT SPECIFIC PRACTICES • **PETROLEUM BASED PRODUCTS** - CONTAINERS FOR PRODUCTS SUCH AS FUELS. LUBRICANTS AND TARS SHALL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DALLY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS SHALL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER
- DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS SHALL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- PAINTS/FINISHES/SOLVENTS ALL PRODUCTS SHALL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOTE IN USE. EXCESS PRODUCT SHALL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT. MATERIALS USED SHALL THESE PRODUCTS AND PRODUCT CONTAINERS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONCRETE TRUCK WASHING NO CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. • FERTILIZER/HERBICIDES - THESE PRODUCTS SHALL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS SHALL BE
- UNDER ROOF IN SEALED CONTAINERS. • BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS SHALL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL SHALL BE DISPOSED OF OFFSITE USING APPROPRIATE AND LAWFUL WASTE DISPOSAL PROCEDURES.

GSWCC Level II Design Professional Cert. #0000061303

## DESCRIPTION OF PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN

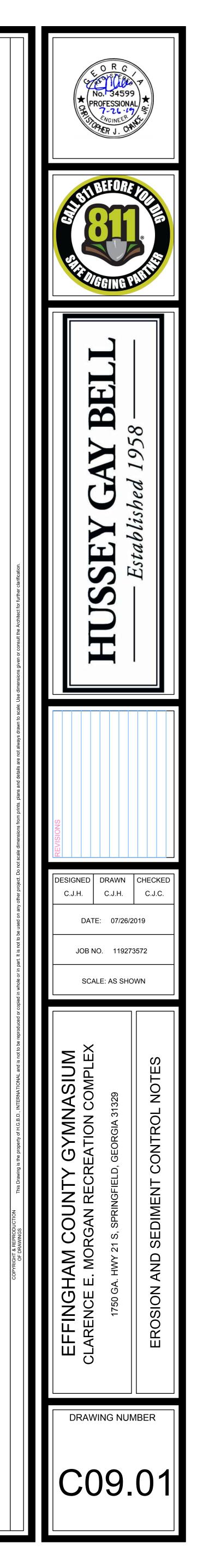
# **TENTATIVE ACTIVITY SCHEDULE**

		2			
	OCT	NOV	DEC	JAN	FEB
INSTALLATION OF SEDIMENT CONTROLS AND TREE PROTECTION BARRICADES					
DEMOLITION, CLEARING, GRUBBING & STRIPPING TOPSOIL					
GRADING					
GRASSING / LANDSCAPING					
MAINTENANCE OF SEDIMENT CONTROLS & TEMPORARY GRASSING (AS REQUIRED)					
REMOVAL OF SEDIMENT CONTROLS					

PRIMARY PERMITTEE IS RESPONSIBLE FOR REGULAR INSPECTIONS AND RECORD KEEPING AS REQUIRED BY THE GEORGIA EPD NPDES PERMIT. INSPECTIONS (TO BE COMPLETED BY PRIMARY PERMITTEE)

PERMITTEE REQUIREMENTS

- (1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING .. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- (2). MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- (3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE : (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION : AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4).THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- (4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- (5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- (6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.



# EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES: <sup>Oscil</sup>

**31** STORMWATER SAMPLING SHALL BE CONDUCTED AT THE POINTS AS INDICATED WITHIN THIS **32 RETENTION OF RECORDS** ESPCP.

SAMPLING FREQUENCY

- (1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
- (A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION:
- (B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- (C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, I BUMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED,  $({f 33})$ CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS\* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BUMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- (D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE IN ACCORDANCE WITH PART IV.D.4.A.(6). MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
- (E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

\*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OF EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK. <u>REPORTING</u>

- Acr 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II. A. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY To use these table, select the size (acres of the facility or common development. Then, select the surface LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE SEE PAGES 12 - 14 FOR FOR SAMPLING POINT LOCATIONS, PERENNIAL AND REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED (35) INTERMITTENT STREAM AND OTHER WATER BODIES INTO WHICH STORM WATER IS TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. DISCHARGED.
- 2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
- A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS: B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND (41)
- MEASUREMENTS: C. THE DATE(S) ANALYSES WERE PERFORMED
- THE TIME(S) ANALYSES WERE INITIATED
- TECHNIQUES OR METHODS USED:
- THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS; H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;"
- AND CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
- 3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

- THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
- A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED
- BY THIS PERMIT: THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION
- CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY
- THIS PERMIT; E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART
- IV.D.4.A. OF THIS PERMIT; F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS
- GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.
- COPIES OF ALL NOTICES OF INTENT. NOTICES OF TERMINATION. INSPECTION REPORTS. SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

## STORMWATER SAMPLING

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT. EPA 833-B-92-001."

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT No. GAR 100003. THIS NTU IS BASED UPON THE DISTURBED ACREAGE OF 1.8. FOR THE PROJECT SITE AND THE SURFACE WATER DRAINAGE AREA OF LESS THAN 5 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

	APPENDIX B Nephelometric Turbidity Unit (NTU) Tables										
		Wan		( <b>Supporting</b> Vater Draina	111 TA		eries)				
		0-4.99	5-9.99	10-24.99	24-49.99	50-99.99	100-249.99	250-499.99	500+		
	1.00-10	75	150	200	400	750	750	75 <mark>0</mark>	750		
Site Size	10.01-25	50	100	<mark>10</mark> 0	200	300	500	750	750		
Sile Size											

	1.00-10	75	150	200	400	750	750	750	750	(4
Size	10.01-25	50	100	<mark>10</mark> 0	200	300	500	750	750	
	24.01-50	50	50	100	100	200	300	750	750	
	50.01-100	50	50	50	100	100	150	300	600	
	100.01+	50	50	50	50	50	100	200	100	

water drainage area (square miles). The NTU matrix value arrived at from the above tables is one to use in Part

(36) SEE PAGES 12 - 14 & 15. FUR A DESURING OF ALL AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE. SEE PAGES 12 - 14 & 15. FOR A DESCRIPTION OF APPROPRIATE CONTROLS AND

APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS AS REQUIRED BY THE LOCAL ISSUING AUTHORITY ARE SHOWN IF APPLICABLE. AREAS OF IMPACT ARE SHOWN AND LABELED ON THE PLAN IF REQUIRED.

THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES; REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL **42** FEET OF THE PROJECT SITE.



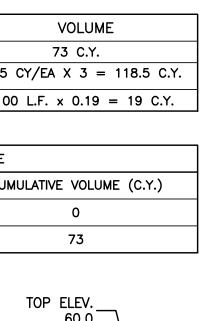
# DRAINAGE BASIN MAP

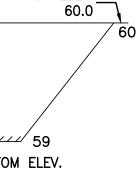
- THE PEAK DISCHARGE RATES FOR THE SITE PRIOR TO AND AFTER COMPLETION OF (43) CONSTRUCTION ACTIVITIES ARE: PEAK DISCHARGE (25 YR) "PRE" = 5 CFS
  - PEAK DISCHARGE (25 YR) "POST" = 13 CFS REFER TO EROSION AND SEDIMENT CONTROL PLAN SHEETS FOR WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION AND THE LOCATION OF ALL STORM WATER DISCHARGE POINTS
- SOIL TYPE: FuA FUQUAY LOAMY SAND (HSG A) (47) SEE PAGES 12 - 14 FOR DELINEATION.
- (48) REFER TO EROSION AND SEDIMENT CONTROL REFER TO EROSION AND SEDIMENT CONTROL PLAN SHEETS FOR THE LIMITS OF TEMPORARY SEDIMENT STORAGE.
  - THE DISTURBED AREA FOR THIS PROJECT IS 1.8 ACRES. THEREFORE. THE REQUIRED SEDIMENT STORAGE VOLUME IS 1.8 ACRES X 67 CY PER ACRE = 121. CY OF STORAGE REQUIRED.

PROVIDED SEDIMENT STORAGE	(
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-	PROVIDED SEDIMENT	3106	AGE C	-
ESCP PHASE	STORAGE METHOD			
INITIAL, INTERMEDIATE	TEMPORARY SEDIMENT	POND		-
INTERMEDIATE	INLET SEDIMENT TRA	٩P	39.5	;
FINAL	TEMPORARY SEDIMENT STORAGE ALONG SILT FEN	CE	1(	2
	POND ST	AGE-S	STORAGE	-
ELEVATION	AREA (S.F.)		CU	
59.0	1,492			
60.0	2,465			
	P OF SEDIMENT TORAGE 260 CY			
	59			
	59		BOTTO	2
			59.0	
TI	EMPORARY	SE	DIM	-
N.1	I.S.			
<b></b>				
11	NLET SEDIMENT TRAP	3	EA X 39	3
RE AS AS	AINAGE AREA PER EA QUIRED SEDIMENT ST SUMED EXCAVATION I SUMED SIDE SLOPES AILABLE CALCULATED V = 1/3bh V = 1/3(40'x40') V = 1067 CF V = 39.5 CY/INLE	ORAG DEPTH = 1 VOLU 2	E = 12 I = 2' 0:1 IME =	2
	50			· · ·
+=		AN -	20	
+	PI	<b>■</b> AN   *	20 SEDIMI	
– EXT'G. GRADE	20' PL	AN	20 SEDIMI	
	20' PL		20 SEDIMI	
STO	20' PL		20 SEDIMI	

# COMPUTATIONS

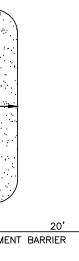




IENT POND

39.5 CY/EA = 118.5 CY 0.60 + / - ACRES

121 CY



EXCAVATED INLET SEDIMENT TRAP

51	REFER TO	EROSION	AND	SEDIMENT	CONTROL	PLAN	SHEETS	FOR	SPECIFIED	LOCATIONS.	
		GEND					(	$\frown$			

 $\widehat{}$ 

	CONSTRUCTION EXIT	(Co)
	DUST CONTROL ON DISTURBED AREAS	Du
	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Ds1
	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	Ds2
	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	Ds3
	TEMPORARY SEDIMENT SINGLE BARRIER – SILT FENCE, TYPE "NON–SENSITIVE"	Sd1-NS
	TEMPORARY SEDIMENT DOUBLE BARRIEF – SILT FENCE, TYPE "SENSITIVE"	Sd1-S
	INLET SEDIMENT TRAP	Sd2-F
	SLOTTED BOARD DAM WITH STONE FILTER	Rt-B
	STORM DRAINAGE OUTLET PROTECTION	St
	DIVERSIONS	Di
	STONE CHECK DAM	Cd-S
	TEMPORARY SEDIMENT TRAP	Sd-4
	STORM WATER DISCHARGE SAMPLING POINT	
	TREE PROTECTION BARRICADE	20" OAK
	SOILS	Mae
	LIMITS OF DISTURBANCE & STORMWATER MANAGEMENT AREA	
	SILT FENCE PROTECTION (SINGLE)	xx
	SILT FENCE PROTECTION (DOUBLE)	x x
FF	R TO FROSION AND SEDIMENT CONTROL	DETAIL SHEETS FOR DETAILED DRAW

**51** REFER TO EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES.

## VEGETATIVE METHODS:

A. A VEGETATIVE COVER SHALL BE ESTABLISHED AND MAINTAINED OVER ALL FINAL GRADING AND OTHER DISTURBED AREAS OF THE SITE. SEE COASTAL PLAIN VEGETATIVE COVERS FOR AN OUTLINE OF THE ESTABLISHMENT OF VEGETATIVE COVERS.

B. WEEKLY INSPECTION OF THE GRASS COVER SHALL BE PERFORMED TO IDENTIFY AREAS REQUIRING RE-ESTABLISHMENT OF GRASS.

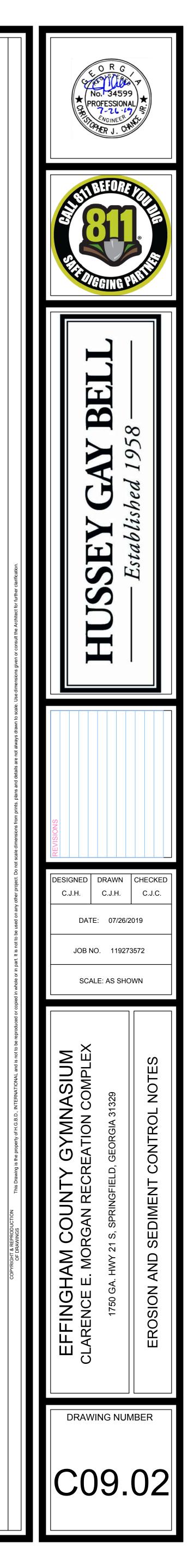
**C.** LIME RATE: 1 TO 2 TONS/ACRE. FERTILIZER: 1500 LBS. OF 6-12-12 PER ACRE

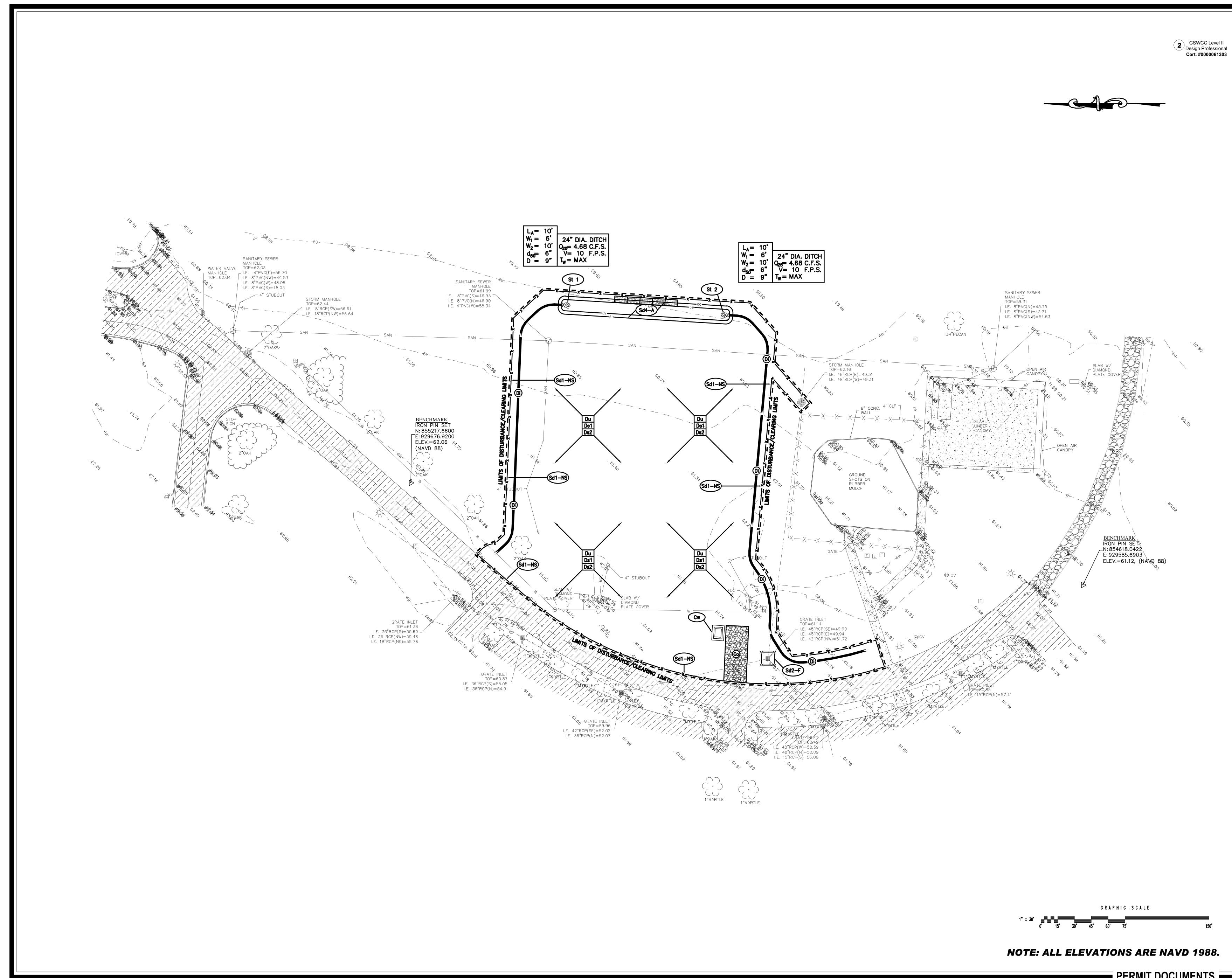
	COASTAL	PLAIN VEGETATI	/E COVERS			
	MONTH OF PLANTING	TEMPORARY GRASS	RATE	MONTH OF PLANTING	PERMANENT GRASS	RATE
	MARCH - JUNE	SUDANGRASS	60 Lbs./Ac	MARCH - JUNE	COMMON BERMUDA (HULLED)	10 Lbs./Ac
	APRIL - AUGUST	BROWN TOP MILLET	40 Lbs./Ac	JULY - AUGUST	COMMON BERMUDA (HULLED) & BROWN TOP MILLET	6 Lbs./Ac 10 Lbs./Ac
	September - February	RYE GRASS	40 Lbs./Ac	SEPTEMBER - FEBRUARY	COMMON BERMUDA (UNHULLED) & TALL FESCUE	6 Lbs./Ac 30 Lbs./Ac

MULCH:

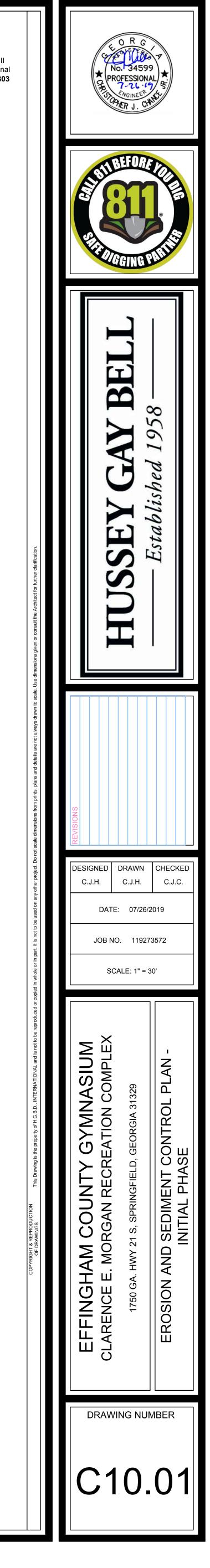
MULCH, IF REQUIRED, SHALL BE UNCHOPPED, UNROTTED, DRY STRAW, HAY, OR WOOD WASTE SHALL BE APPLIED TO A DEPTH OF 2-3 INCHES PROVIDING COMPLETE SOIL COVERAGE. IN AREAS TO BE EVENTUALLY COVERED BY PERENNIAL VEGETATION THE CONTRACTOR SHALL APPLY 20-30 POUNDS OF NITROGEN/AC. IN ADDITION TO THE NORMAL AMOUNT.

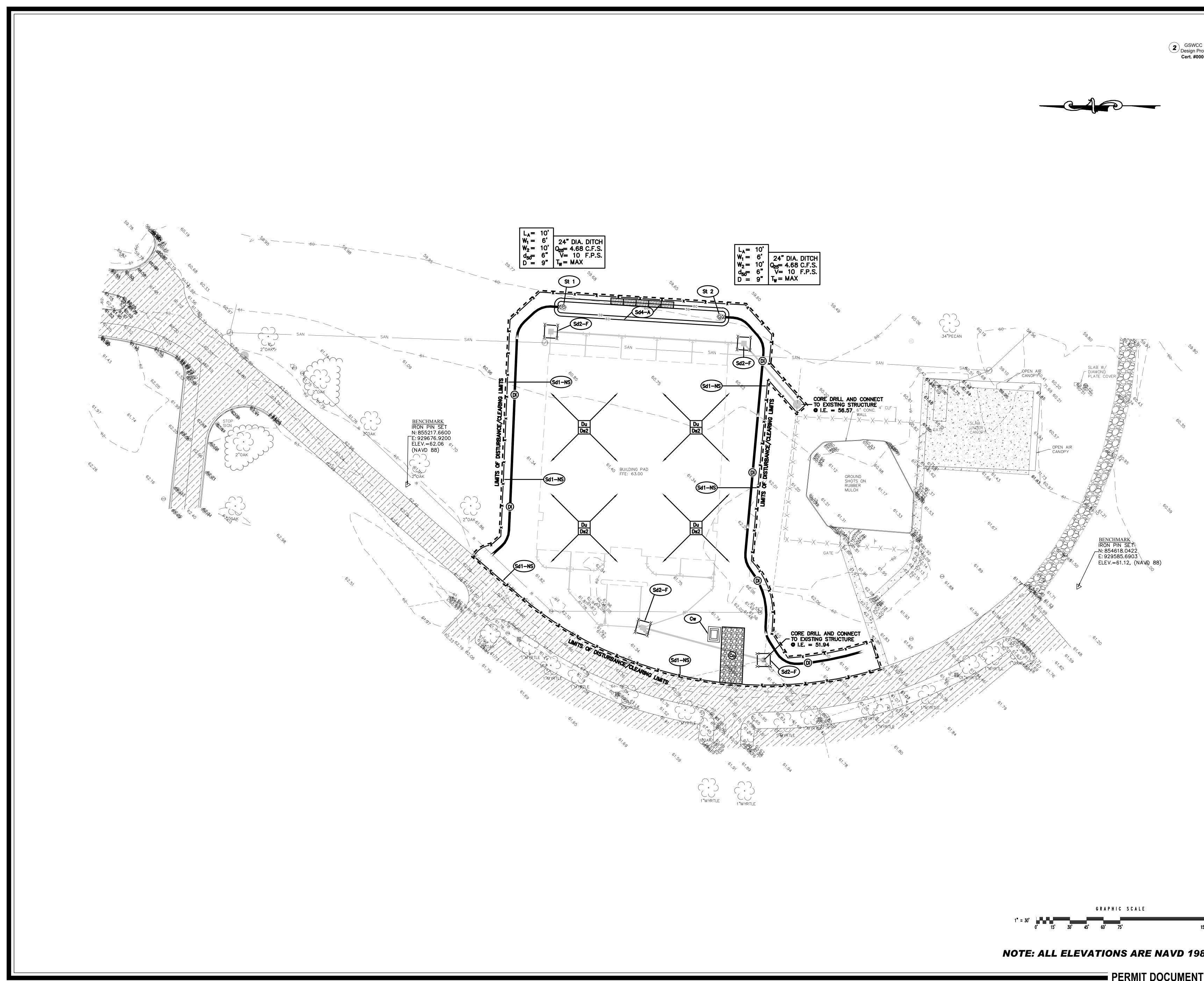
MULCHING RATE FOR STRAW SHALL BE 2 TONS/AC. AND FOR HAY 2 1/2 TONS/AC. MULCH MATERIAL SHALL BE RELATIVELY FREE FROM ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS WHICH ARE: CANADA THISTLE, JOHNSONGRASS AND QUACKGRASS. SPREAD MULCH MECHANICALLY OR UNIFORMLY BY HAND; MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY PEG AND TWINE METHOD, MULCH ANCHORING TOOL, NETTING OR LIQUID MULCH BINDERS.



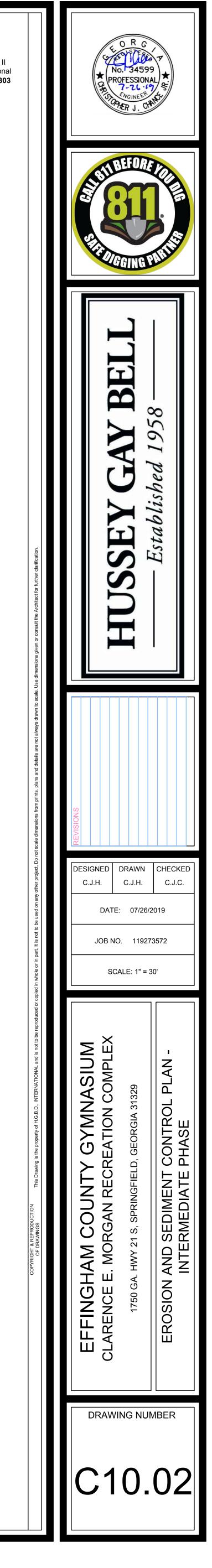


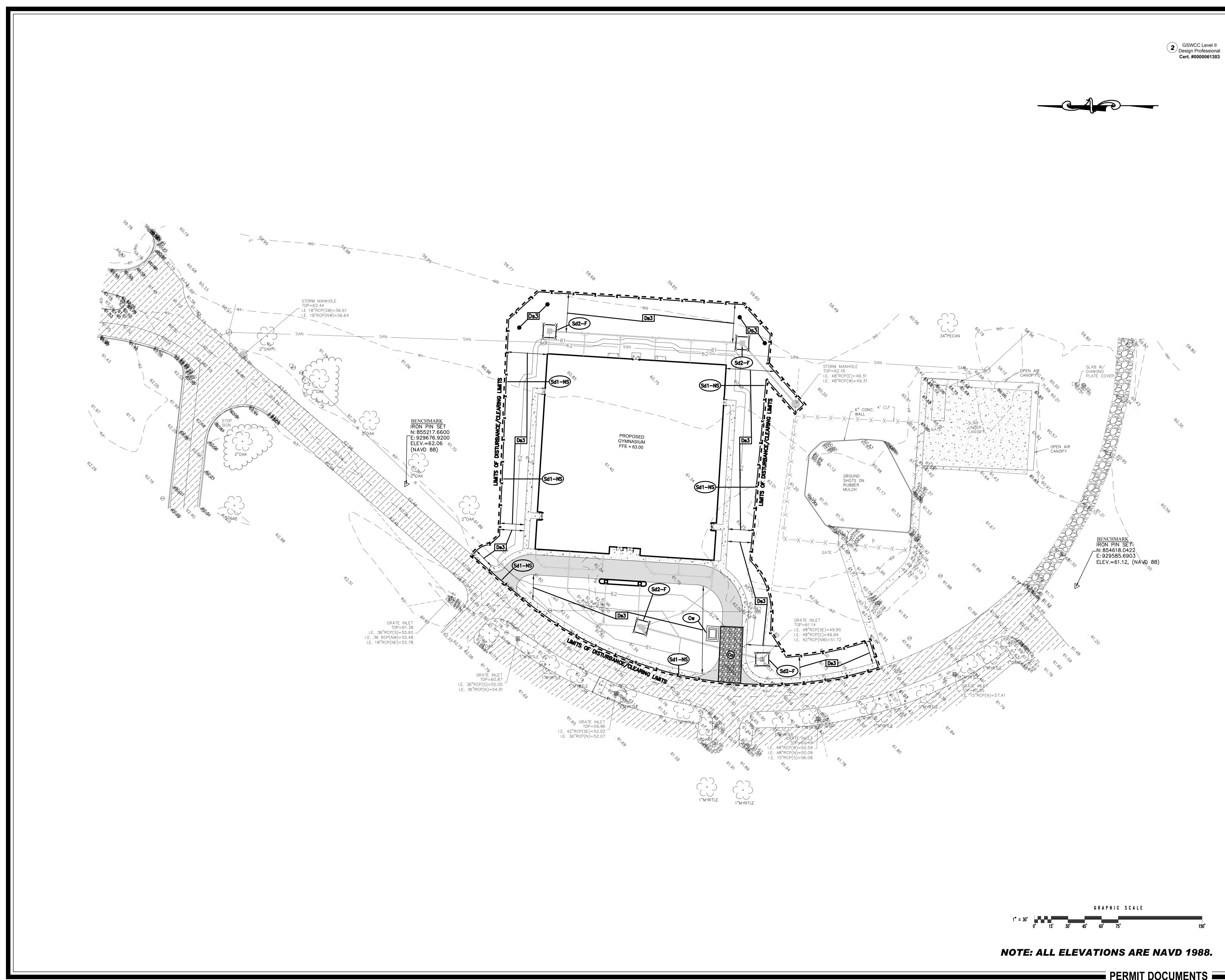




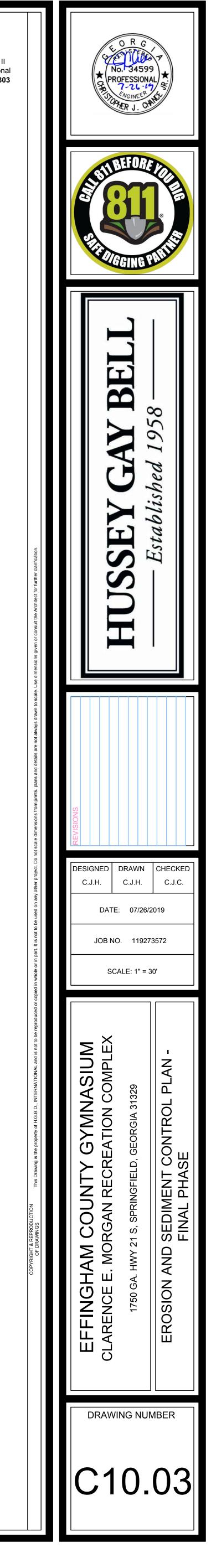


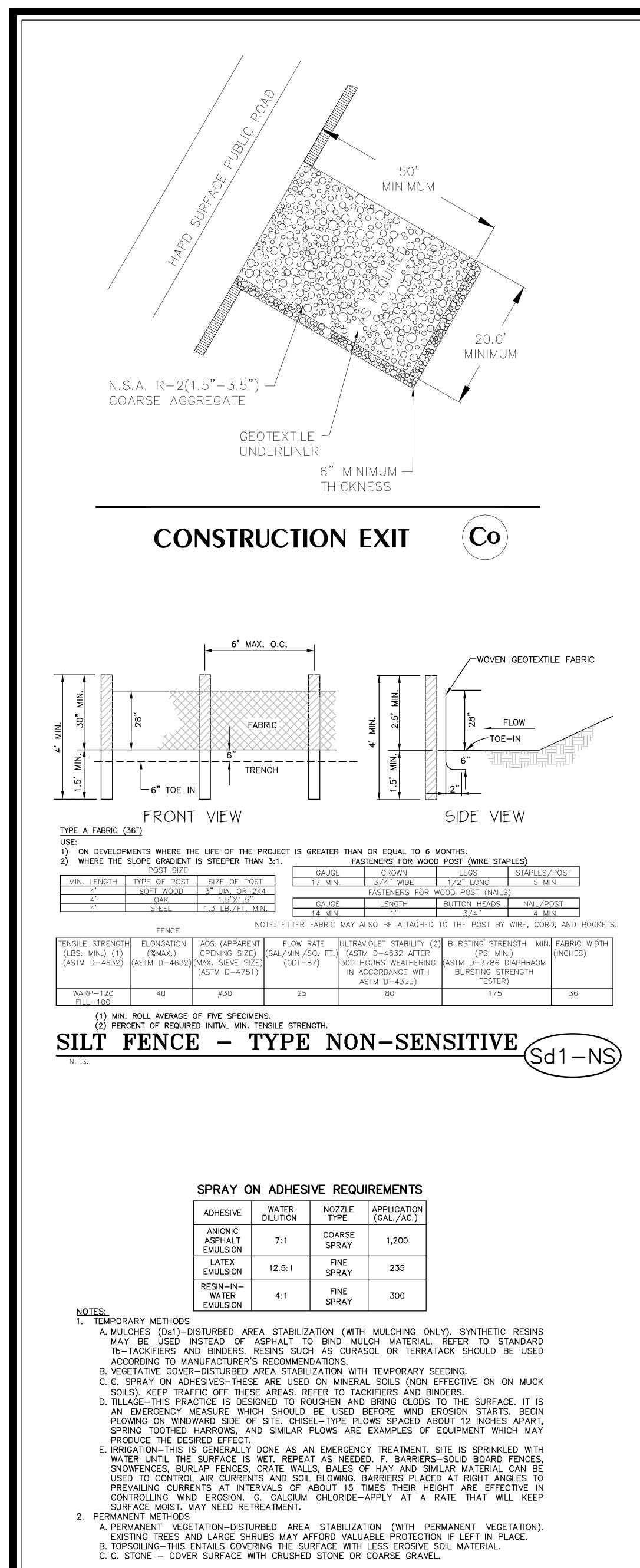
NOTE: ALL ELEVATIONS ARE NAVD 1988.





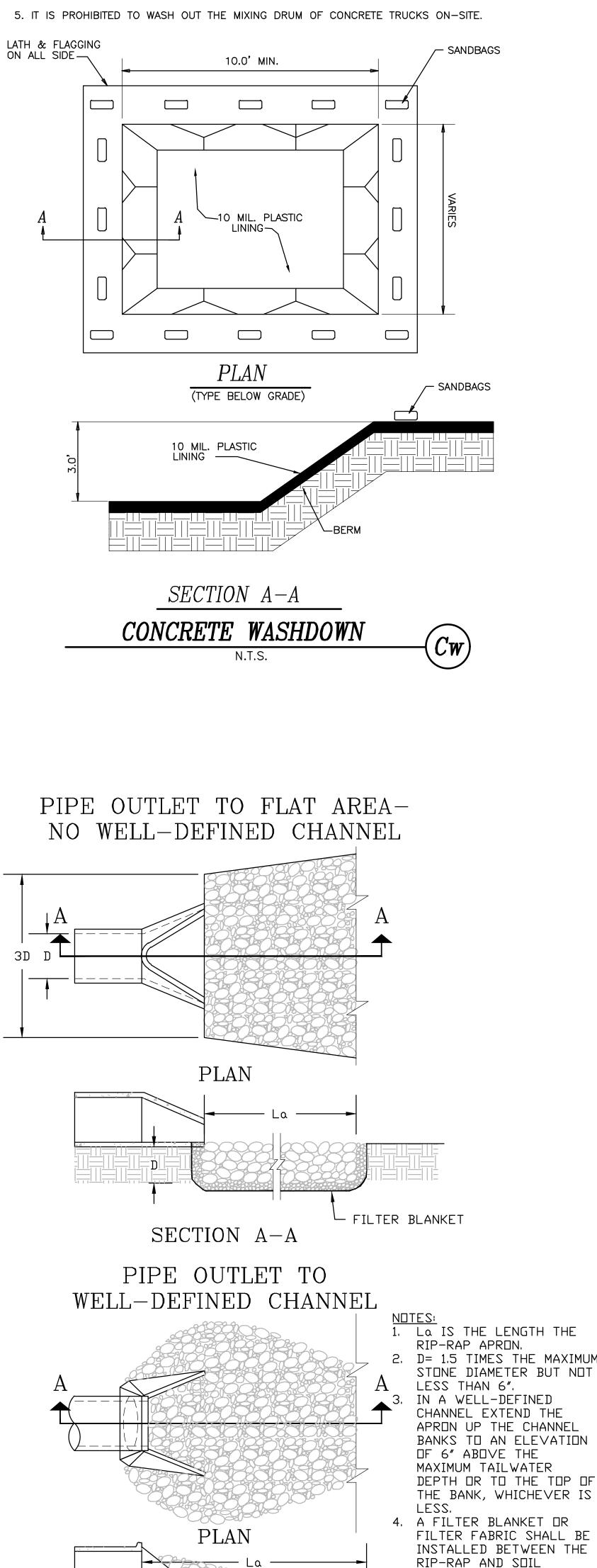






DUST CONTROL ON					
DISTURBED AREAS	م				
N.T.S.	JDU				

- NDTES
- 1. THE CONTRACTOR MUST PROVIDE A DESIGNATED AREA FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF THE VEHICLES. THIS AREA MUST HAVE A CONCRETE WASHOUT
- FACILITY AND SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL SHOWN BELOW
- 2. THE CONCRETE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES.
- 3. WASH OUT DISCHARGE FROM THE CLEANING OF CONCRETE TRUCKS, TOOLS, AND OTHER EQUIPMENT SHALL NOT BE DISCHARGED INTO STORM DRAINS, OPEN DITCHES,
- STREETS OR STREAMS. 4. EXCESS CONCRETE SHALL NOT BE DISPOSED OF ON SITE. ALL EXCESS CONCRETE SHALL BE TRANSPORTED OFF-SITE AND DISPOSED OF PROPERLY.



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SECTION A-A

**RIP-RAP OUTLET PROTECTION** 

N.T.S.

FOUNDATION.

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└─ FILTER BLANKET

