JOINT PUBLIC NOTICE

February 10, 2020

United States Army Corps of Engineers New Orleans District Attn: Regulatory Branch 7400 Leake Avenue New Orleans, Louisiana 70118-3651

State of Louisiana Department of Environmental Quality Attn: Water Quality Certifications Post Office Box 4313 Baton Rouge, Louisiana 70821-4313

Project Manager:
Amy Oestringer
(504) 862-2272
Amy.L.Oestringer@usace.army.mil
Application #: MVN-2013-01506-WQQ

Project Manager: Elizabeth Hill (225) 219-3225 WQC Application Number WQC # 200205-03

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

The application has also been mailed to the Louisiana Department of Environmental Quality, for a Water Quality Certification (WQC) in accordance with statutory authority contained in Louisiana Revised Statute 30:2074 A(3), and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

DRAINAGE IMPROVEMENTS IN POINTE COUPEE PARISH

NAME OF APPLICANT: Pointe Coupee Parish, c/o Patin Engineers and Surveyors, Inc., Attn: Cletus Langlois, 1111 Hospital Road, Suite D, New Roads, Louisiana 70760.

LOCATION OF WORK: located in Johnson Bayou Canal, near Batchelor, Louisiana, in Pointe Coupee Parish, as shown on the enclosed drawings.

Latitude: 30.727947° Longitude: -91.735933° Hydrologic Unit Code 08080101 (Atchafalaya River Basin)

CHARACTER OF WORK: The applicant has requested a permit to excavate approximately 130,000 cubic yards of accumulated sediments from the existing Johnson Canal pumping station influent canal to improve area drainage flow and capacity. All excavated spoil materials will be pumped to the Atchafalaya River and discharged at the surface. Approximately 13 acres of Waters of the US will be temporarily impacted by the project implementation. No wetland impacts are proposed, therefore no compensatory mitigation will be required.

The comment period for the Department of the Army Permit will close **20 days** from the date of this public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps

of Engineers at the address above, ATTENTION: **REGULATORY BRANCH**. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days. Letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this public notice are being sent to the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species. Based on the South Louisiana Standard Local Operating Procedure for Endangered Species (SLOPES), as signed on October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and the U.S. Fish and Wildlife Service, it has been determined that the project would have no effect to any listed species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal may result in the destruction, alteration, and/or disturbance of **N/A** acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency and certification that the proposed activity will not violate applicable water quality standards will be required from the Louisiana Department of Environmental Quality, Office of Environmental Services, before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

You are invited to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Darrell S. Barbara Chief, Western Evaluation Section Regulatory Branch

Enclosure

PLANS OF

PARISH WIDE DRAINAGE PROJECT 2 JOHNSON CANAL PUMPING STATION INFLUENT CANAL DREDGING

SECTIONS 9, 10, & 11, TOWNSHIP 4 SOUTH, RANGE 7 EAST SOUTHEASTERN LAND DISTRICT, WEST OF THE MISSISSIPPI RIVER POINTE COUPEE PARISH, STATE OF LOUISIANA SEPTEMBER 2014

FUNDING BY LOUISIANA OFFICE OF COMMUNITY DEVELOPMENT/DISASTER RECOVERY UNIT OWNER:



REVISION 2: 1/27/2020

RELIED CONTINUENDS PLANS TO \$ 7 Y IN 1 SERVINED BY USON; ADDED NORMATION FOR CARRY AS REQUEST AND EXCEPT AND THE OWNER OF THE OWNER PREMIUMON FRANCISCO FOR THE OWNER PRELIMINON FRANCISCO FOR THE OWNER PREMIUMON FRANCISCO FOR THE OWNER PROMIUMO THE NEW PROPERTY OF THE OWNER PROMIUMO THE NEW PROPERTY OF THE OWNER PROMIUM ON SHEET HE OWNER AND THE OWNER PROMIUMO THE OWNER PR STORM

REVISION 1: 4/1/2019

ADDED PIPELINE LOCATION

POINTE COUPEE PARISH/OCD/DRU PROJECT NO. 39PARA3401-2

SHEET NO:	DESCRIPTION
1	TITLE SHEET
2	OVERALL SITE MAP
3	OVERALL PROJECT SITE AND TOPOGRAPHY
4	CROSS SECTIONS: STA: 0+58.22 TO 8+57.81
5	CROSS SECTIONS: STA: 9+23.48 TO 15+02.98
6	CROSS SECTIONS: STA: 17+02.95 TO 30+21.18
7	STORM WATER POLLUTION PREVENTION PLAN S.W.P.P.P. & SPOIL DISTRIBUTION
8	CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (1 OF 11)
9	CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (2 OF 11)
10	CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (3 OF 11)
11	CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (4 OF 11)
12	CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (5 OF 11)
13	CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (7 OF 11)
14	CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (8 OF 11)
15	CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (8 OF 11)
16	CPS 905-01: CONSTRUCTION SIGNS AND BARRICADES (1 OF 4)
17	CPS 905-D1: CONSTRUCTION SIGNS AND BARRICADES (1 OF 4)
18	CPS 905-01: CONSTRUCTION SIGNS AND BARRICADES (2 OF 4)
19	CPS 905-01: CONSTRUCTION SIGNS AND BARRICADES (4 OF 4)
20	EC-D1: TEMPORARY EROSION CONTROL DETAILS (1 OF 2)
21	EC-01: TEMPORARY EROSION CONTROL DETAILS (1 OF 2)
22	FLOATING TURBIDITY BARRIER DETAIL
23	RIGHT-OF-WAY SERVITUDE/SURVEY DRAWING
24	PROPOSED SPOIL DISPOSAL (DISCHARGE)
25	PROPOSED SPOIL DISPOSAL (DISCHARGE) (CROSS SECTION)

10

PLANS PREPARED BY PATIN ENGINEERS & SURVEYORS, INC.

POINTE COUPEE PARISH

POLICE JURY

(START OF PROJECT) DISTRICT

KYLE OLINDE, PRESIDENT

MEMBERS

ALLEN MONK

JOHN POURCIAU

RUSSELL YOUNG

GLENN RAY CLINE

KYLE OLINDE

MELANIE L BUECHE

ALBERT DUKES

CORNELL DUKER

JANET VOSBURG

KURT JARREAU

JUSTIN COX

CLIFFORD NELSON JOHN GREZAFFI

(PARISH ADMINISTRATOR)

BLAINE BORDELON (DIRECTOR OF PUBLIC WORKS) JAMES DAVID (DIREC. OF PUB. WORKS)

Thomas R Olinda THOMAS R. OLINDE, P.E. PATIN ENGINEERS AND SURVEYORS, INC.

1/16/19

POINTE COUPEE

PARISH COUNCIL

MAJOR THIBAUT, PRESIDENT

(AS OF JAN, 2019) DISTRICT

D

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a

MEMBERS

JIMMIE GASPARD

BIDNEY LACOSTE, II

EDWARD BAZILE

CHAPLES WATKINS

EDWIN SOULIER

DUSTIN BOUDREAUX

PAUL BERGERON

KURT JARREAU



VICINITY MAP

- ALL WORK SHALL CONFIRM TO THE 1987 STANDARD SPECIFICATIONS FOR PUBLIC CONSTRUCTION OF THE EAST BATON ROUSE CITY—PARSH DEPARTMENT OF PUBLIC WORSE AND THE PARSH LIGHTED DEVELOPMENT CODE. IN CASE OF CONFLICTS IN SPECIFICATIONS, THE MORE STRINGDIST REQUIREMENT SHALL CONTIN.
- THE CONTRACTOR SHALL BE RESPONDED FOR DETERMINED THE CHACT LOCATION, DEPTH AND SIZE OF ALL UNDERGOUND UTLITES AND STRUCTURES AND SHALL BE LIMITE FOR ANY DIAMPE CAUSED BY FAREIRY OF COMPY WITH THESE PRINCIPOLS (CONTACT LOUIS MAN-ONE-CALL: 1-800-272-3020 FOR UTLITY LICATIONS)
- PROR TO CONNECTION OF ANY WORK, THE CONTRACTOR SHALL CONTRACT THE DOGSERS AND THE DIRECTION OF PUBLIC MONES OF THE APPROPRIATE FIELDERS, STATE, OF PASSES DOGSTATEMENT OF SECRETULE A PRE-CONSTRUCTION METING. OF ROZEST THE INSPECTIONS DEPROY ALL PRIMESES OF CONSTRUCTION CONTRACT THE DISMESS AND THE OPPORTANTE PUBLIC MORROS DEPARTMENT.
- S. A DOTO PUBLIT WILL BE REQUIRED SHOULD ANY ACTIVITY FALL WITHIN A STATE RICHT-OF-WAY, COORDINATE WITH PROJECT ENGINEER.
- B. FINAL AS-BULT SURVEY WIL BE REQUIRED AS DOCUMENTATION OF WORK PERFORMED UNCOR THIS CONTRACT AND WILL SURVE TO VERBY CONTRACT TO CONSTRUCTION PLANS, NO ACCIONAL, COMPENSATION FOR OVER CUTTING CANAL OF STOCKING STOCK WILL BE MADE. PAYMENT FOR FINAL AS-BULT SURVEY WILL NOLLIGED IN LIMP STOCKING.
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SITE BENCHMARKS

THE TEMPORARY BENCHMARK WILL BE PLACED AS NEEDED.

REFERENCE BENCHMARK:

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January, 2019

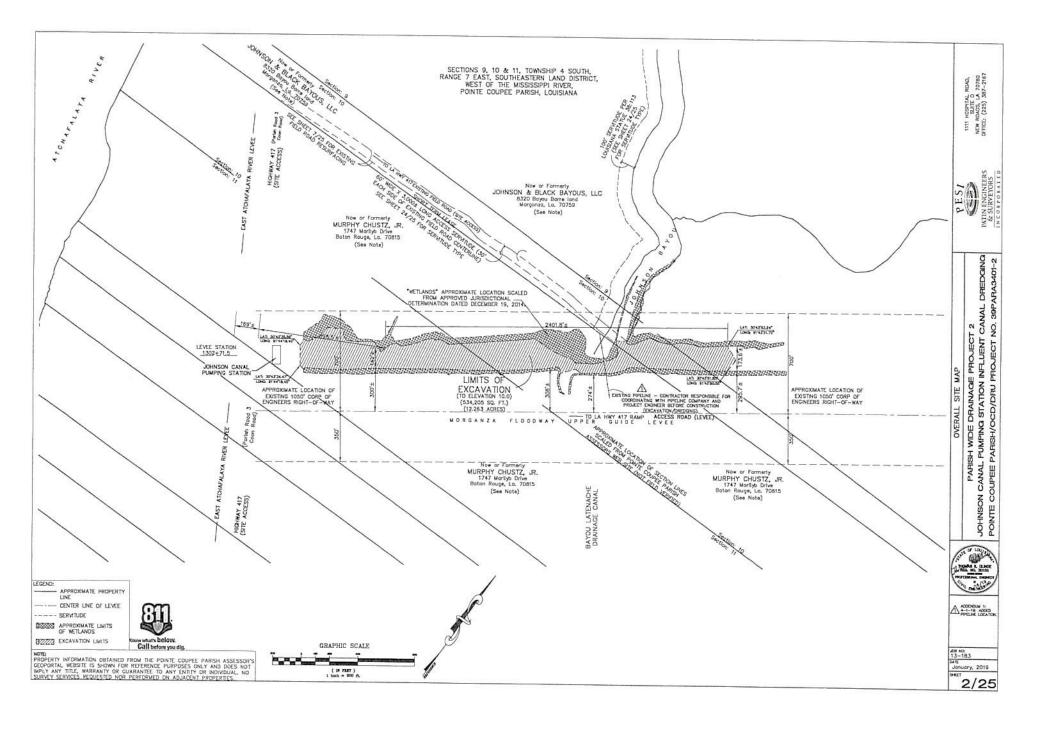
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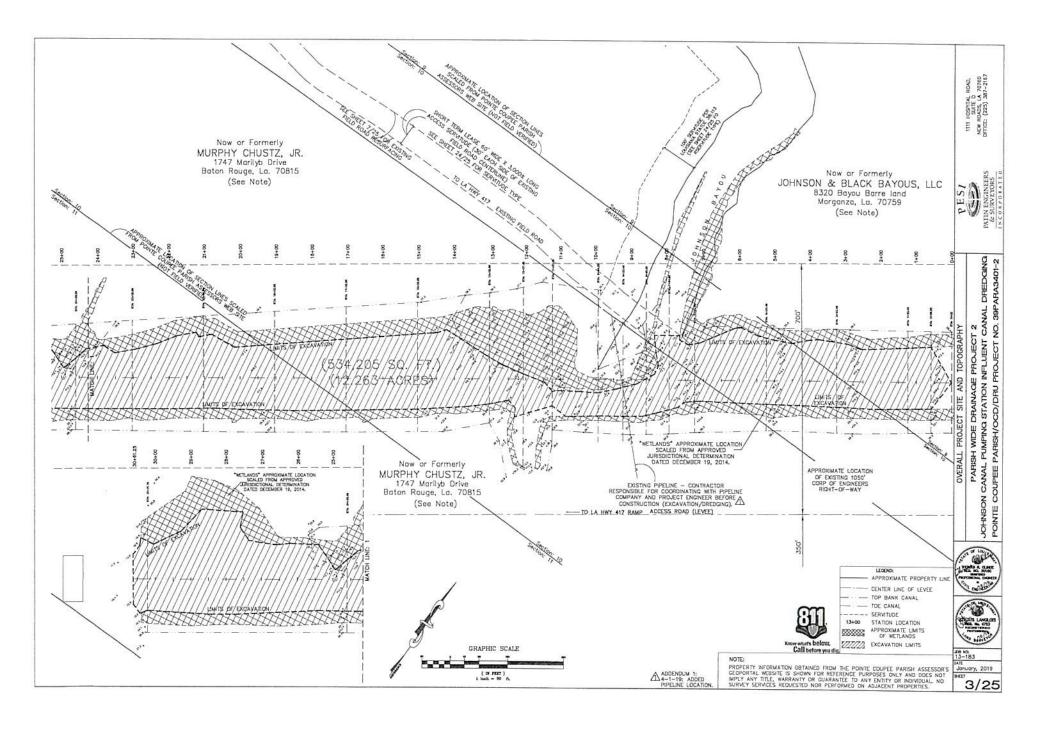
1111 HOSPITAL ROAD, SUITE D NEW ROADS, LA 70760 OFFICE (225) 387-2167

ISH WIDE DRAINAGE PROVIECT 2 PUMPING STATION INFLUENT CANAL DREDGING PARISH/OCD/DRIU PROVIECT NO. 39PARA3401-2

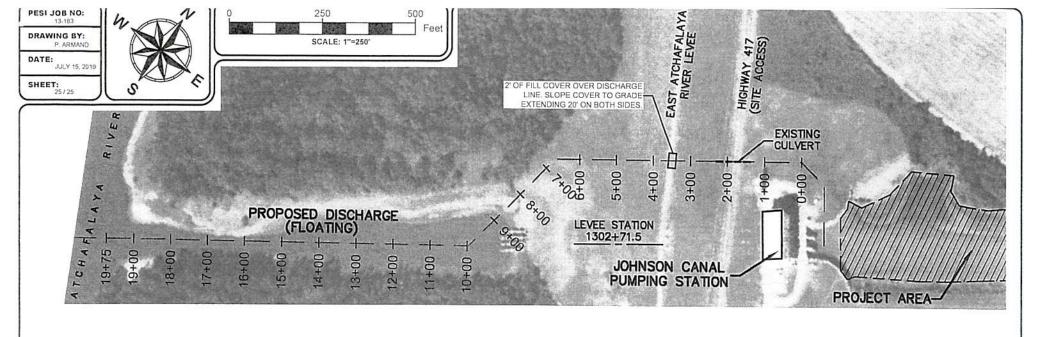
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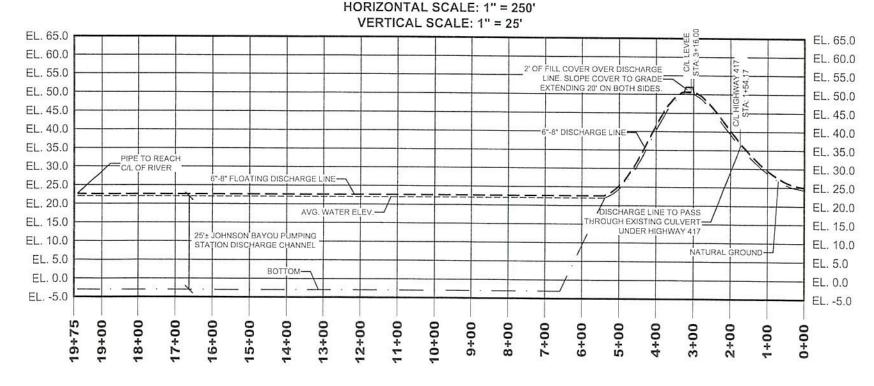


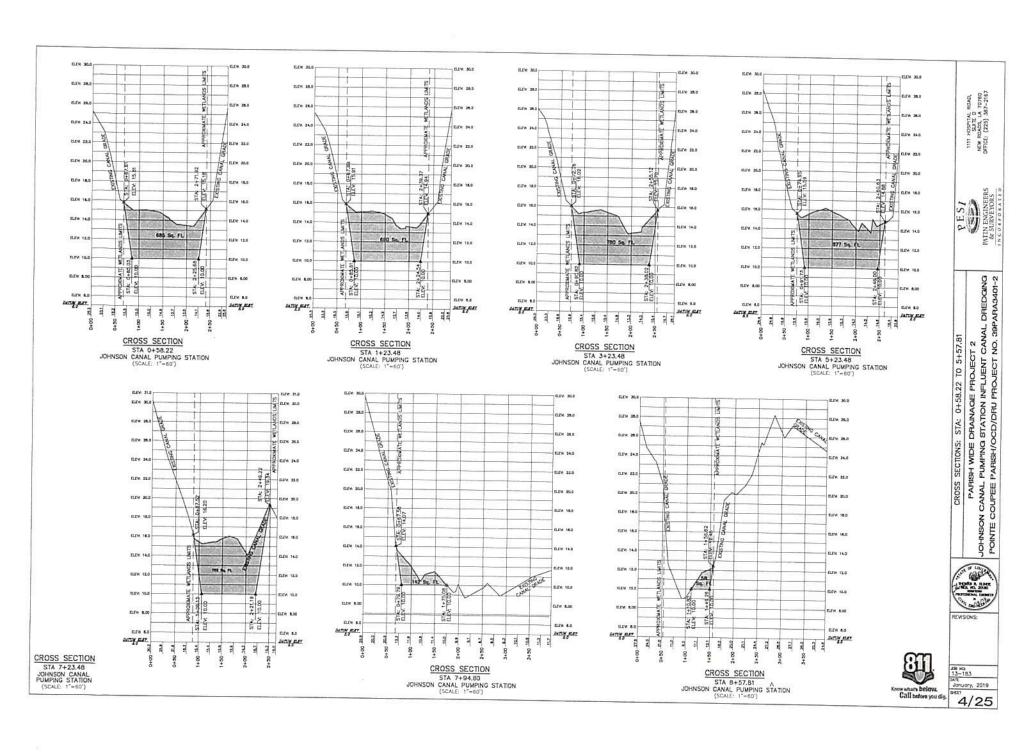


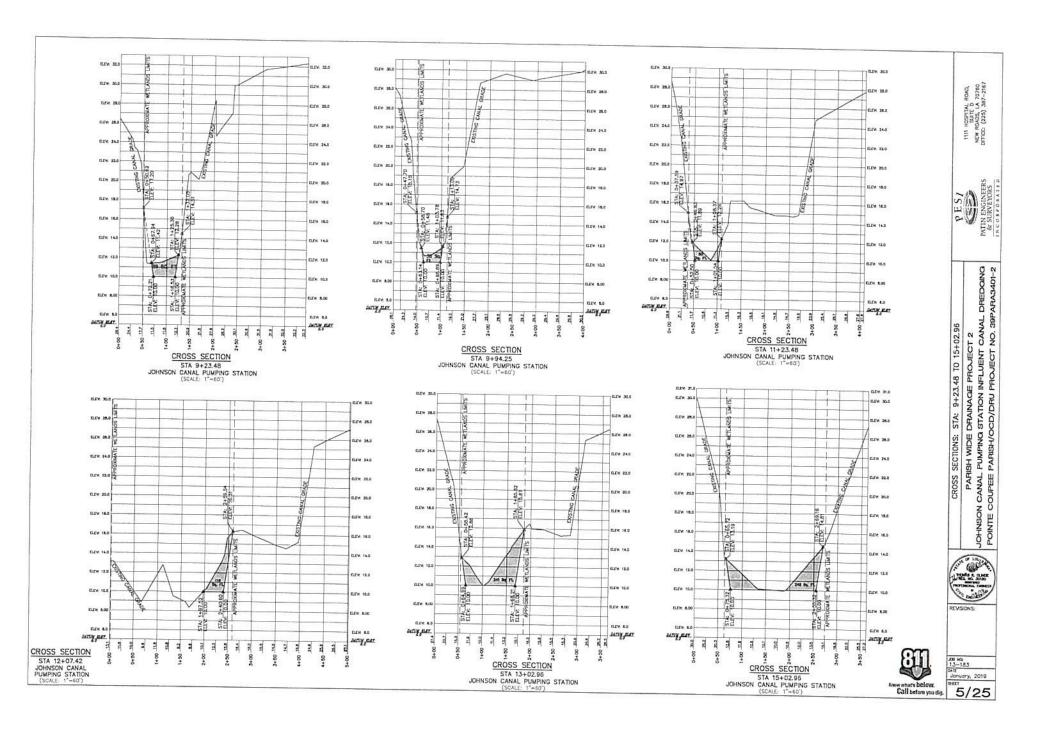


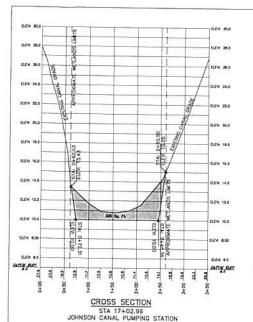
PLAN & PROFILE:

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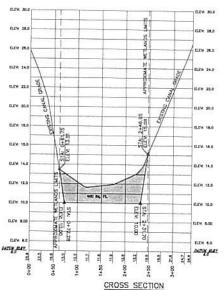


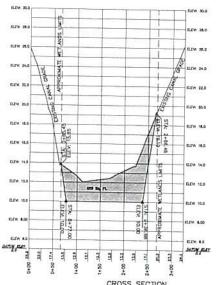


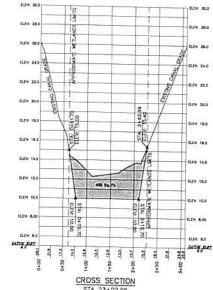




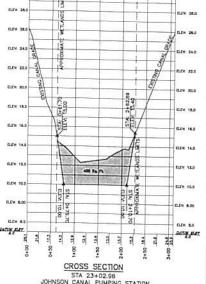
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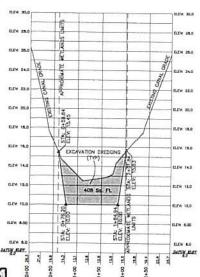




CROSS SECTION STA 21+02.96 JOHNSON CANAL PUMPING STATION (SCALE: 1"-60")



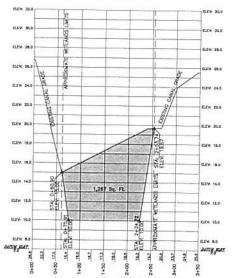
JOHNSON CANAL PUMPING STATION



where below.

Call before you dig.





STA 19+02.96

JOHNSON CANAL PUMPING STATION (SCALE: 1"-60")

CROSS SECTION STA 30+21.18 JOHNSON CANAL PUMPING STATION (SCALE: 1"=60")

TOTAL

	EXCAVA	TION DREE	GING TABLE (B	IN 2030400)	
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	65.28		000	44,899	1,663
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3+23.45		760			
	200.00		829	165,800	6,141
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7+23.48	200.00		820	164,000	6,074
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0437.01	65.67	58			
9+23.48	63.87	69	74	4,860	180
# 1 A.M. THE	70.77	DV			
9+94.25	70.77	34	84	4,529	168
	129.21	30			
11+23.48	128.23	50	44	5,688	211
	83.94	30	8.3		
12+07.42	00.71	115	63	6,967	258
	95.54	110	178	17,006	
13+02.96		241	178	17,006	630
	200.00		243	48,600	
5+02.98		245	140	40,000	1,800
	200.00		283	56.600	2.096
17+02.96		320		50,000	2,090
	200.00		360	72,000	2,667
19+02.96		400			2,007
	200.00		485	97,000	3.593
21+02.95		569		-,,,,,,	2,093
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23+02.96		450			-,779
	157.00		429	67,353	2,405
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	561.22		638	470,022	17,408
30+61.25		1,287			
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EXCAVATION / DREDGING

DICAVATION/PREDENCE

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CONFORM TO EAST BATON ROUSE CITY PARISM STANDARDS
PLAN 503-01-51 STORN PULLUTION PERVENTION PLAN, BEST
MANAGEMENT PRACTICES (SHEETS 8-16 OF THESE PLANS),

NO ADDITIONAL COMPENSATION FOR OVER CUITING INFLUENT CANAL, STOCKPILING MATERIAL, INTERM REPAIRS TO THE ACCESS ROAD OR FINAL GRADING OF SPOIL SITE WILL BE MADE.

NO ADDITIONAL COMPENSATION MILL BE MADE FOR CORRECTIVE ACTION TO MAINTAIN DISTING DRAINAGE INFRASTRUCTURE ETHER BY REPAIR/REPLACEMENT OF EDSTING DRAINAGE. STRUCTURES OR REMOVAL OF SEDMENT FROM EXISTING DRAINAGE. CHANNELS.

ANY DAMAGE TO THE EXISTING MORGANZA FLOODWAY UPPER GUIDE LEVEE MILL BE REPARED BY THE CONTRACTOR, NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE BEPLIES.

CONTRACTOR WILL PRODUCE AN EROSION CONTROL PLAN FOR ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF SPOIL DEPOSITION.

TURBIDITY CURTAINS SHALL REMAIN IN PLACE AFTER COMPLETION OF WORK.

USACE APPROVED (AD.) OFFSITE SPOIL DEPOSIT SITES ARE DELINEATED ON SHEET 25/25

ESTIMATED EXCAVATION/DREDGING QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY, IF STHE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT QUANTITIES REQUIRED TO COMPLETE THE PROJECT, NO ADJUSTMENT ON CONTRACT PROC MILL BE MADE.

THE CONTRACTOR IS RESPONSIBLE FOR ALL NEODINATORS WITH THE LANDOWNER OF THE DISPOSAL SITE. REMAINS THE CAMERICAN OF THE DISPOSAL SITE. SET WITH THE CAMERICAN OF THE LAND OWNER MUST BE FROM THE LAND OWNER NOT THE CONTRACTOR FOR USE OF THE OSPOGAL SITE PROPERTY.

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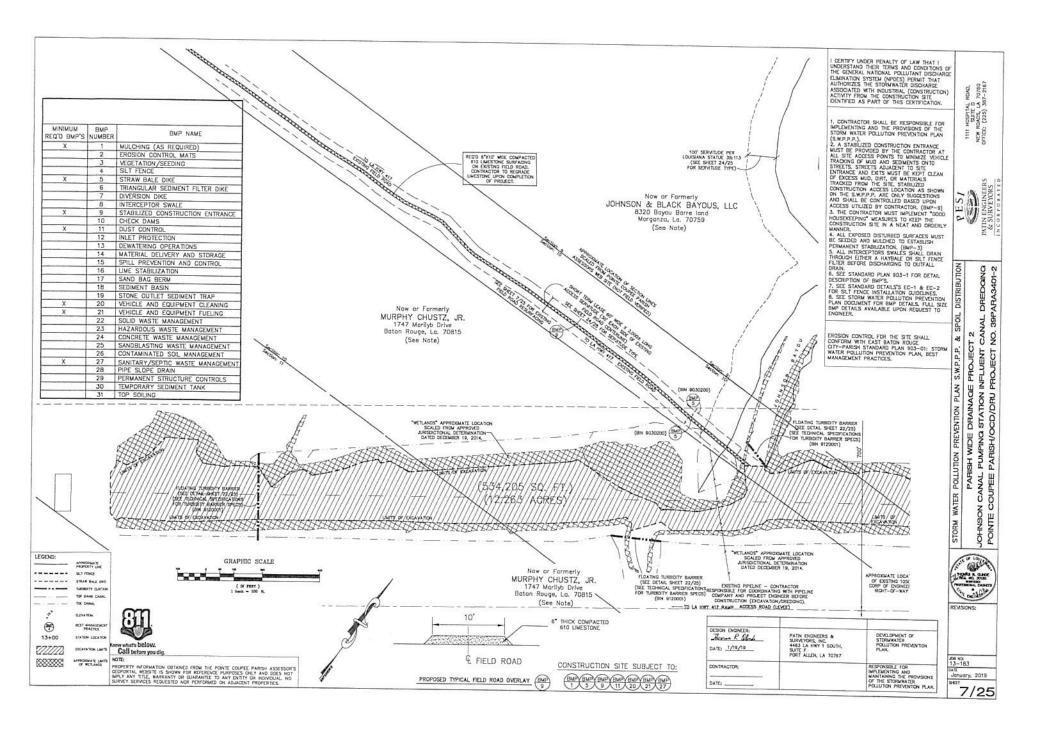
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PARISH WIDE DRAINAGE PROJECT 2
CANAL PUMPING STATION INFLUENT CANAL DREDGING
OUPEE PARISH/OCD/DRU PROJECT NO. 39PARA3401-2

2

NEW ROADS, LA 7 OFFICE (225) 387

же мо: 13-183 January, 2019



DESCRIPTION: MULCHING IS THE APPLICATION OF A LAYER OF CHOPPED STRAW, HAY OR OTHER MATERIAL WHICH IS SPREAD UNIFORMLY OVER BARREN AREAS TO REDUCE THE EFFECTS OF EROSION FROM RAINFALL TYPES OF MULCH INCLUDE ORGANIC MATERIALS, STRAW, WOOD CHIPS, BARK OR OTHER FIBERS. MULCH ALSO COMES IN PREPACKAGED FORMS, USING STRAW, HAY OR OTHER MATERIAL WITH ORGANIC AND INDRGANIC BINDING SYSTEMS

PRIMARY USE: MULCH IS USED TO TEMPORARILY AND/OR PERMANENTLY STABILIZE CLEAR OR FRESHLY SEEDED AREAS. IT PROTECTS THE SOIL FROM EROSION AND MOISTURE LOSS BY LESSENING THE EFFECTS OF WIND, WATER, AND SUNLIGHT IT ALSO DECREASES THE VELOCITY OF SHEET FLOW, THEREBY REDUCING THE VOLUME OF SEDIMENT-LADEN WATER FLOW LEAVING THE MULCHED AREA.

APPLICATION: MULCH MAY BE USED ON ANY CONSTRUCTION-RELATED DISTURBED AREA FOR SURFACE PROTECTION INCLUDING: 1.) FRESHLY SEEDED OR PLANTED AREAS. 2.) AREAS AT RISK DUE TO THE TIME PERIOD BEING UNSUITABLE FOR GROWING VEGETATION, 3.) AREAS THAT ARE NOT CONDUCTIVE TO SEEDING OR PLANTING

DESIGN CRITERIA: MULCH MAY BE USED BY ITSELF OR IN COMBINATION WITH NETTING OR OTHER ANCHORS TO PROMOTE SOIL STABILIZATION. SEVERAL MANUFACTURES PROVIDE AN ORGANIC MULCH WITH AN ATTACHED NETTING TO SIMPLIFY INSTALLATION, INSTALLATION SHOULD ADHERE TO MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS. CHOICE OF MULCH DEPENDS LARGELY DEPENDS ON SLOPE CLIMATE, AND SOIL TYPE IN ADDITION TO AVAILABILITY OF DIFFERENT MATERIALS. STRAW AND HAY ARE THE RECOMMENDED CHOICES DUE TO THEIR AVAILABILITY AND BIODEGRADABILITY.

MULCH SHOULD BE APPLIED IN AN EVEN AND UNIFORM MANNER WHERE CONCENTRATED WATER FLOW IS NEGLIGIBLE.
APPLICATION OF STRAW OR HAY MULCH SHOULD BE
APPROXIMATELY 2 TONS DRY PER ACRE SPREAD UNIFORMLY ACROSS THE DISTURBED AREA. OTHER MATERIAL SHOULD NE APPLIED SUCH THAT 25% OF THE SOIL IS VISIBLE THROUGH THE MULCH. FOR AREAS USING STRAW MULCH AND THE SLOPE GREATER THAN 3-5%, ANCHORING OF THE MULCH WITH A KRIMPER TOOL IS REQUIRED.

LIMITATIONS: MULCHES ARE SUBJECT TO REMOVAL BY WIND OR WATER UNDER SEVERE CLIMATIC CONDITIONS. MULCHES LOWER THE SOIL TEMPERATURE WHICH MAY RESULT IN LONGER SEED GERMINATION PERIODS

MAINTENANCE REQUIREMENTS: MULCHED AREAS MUST BE INSPECTED ON A WEEKLY BASIS, AND AFTER SIGNIFICANT (>0.5INCH) RAINFALL, FOR THIN OR BARE SPOTS CAUSED BY NATURAL DECOMPOSITION OR WEATHER RELATED EVENTS MULCH IN HIGH TRAFFIC AREAS SHOULD BE REPLACED ON A REGULAR BASIS TO MAINTAIN UNIFORM PROTECTION.





DESCRIPTION: AN EROSION CONTROL MAT (ECM) IS A GEOMEMBRANE OR BIODEGRADABLE FABRIC PLACED OVER DISTURBED AREAS TO LIMIT THE EFFECTS OF EROSION DUE TO RAINFALL IMPACT AND RUNOFF ACROSS BARREN SOIL, EROSION CONTROL MATS ARE MANUFACTURED BY A WIDE VARIETY OF VENDORS ADDRESSING A WIDE VARIETY OF CONDITIONS SUCH AS VEGETATION ESTABLISHMENT, PROTECTION FROM HEAVY RAINFALL AND HIGH VELOCITY FLOW. TYPES OF MATTING INCLUDE ORGANIC (JUTE, STRAW) AND SYNTHETIC (PLASTIC, AND GLASS FIBER)

PRIMARY USE: MATS CAN BE PROVIDED BOTH TEMPORARY AND/OR PERMANENT STABILIZATION FOR DISTURBED SOIL OR BARREN AREAS, IT IS USED FOR DIFFICULT TO STABILIZE AREAS SUCH AS STEEP SLOPES, TEMPORARY OR PERMANENT DRAINAGE SWALES, EMBANKMENTS OR HIGH TRAFFIC (PEDESTRIAN) AREAS SOME MATS ARE REUSABLE, REDUCING THE INITIAL COST OF THE

APPLICATIONS: MATS CAN BE USED ON ANY CONSTRUCTION-RELATED DISTURBED AREA BUT ARE PARTICULARLY EFFECTIVE FOR EROSION CONTROL OF FINE GRAINED SOILS, AND ON SHORT, STEEP SLOPES (SUCH AS STREAM BANKS) WHERE EROSION IS HIGH AND GROWTH OF VEGETATION IS

DESIGN CRITERIA: A MAT MAY BE USED BY ITSELF OR IN COMBINATION WITH NETTING OR OTHER ANCHORS TO PROMOTE SOIL STABILIZATION, CHOICE OF MATTING DEPENDS LARGELY ON SLOPE, CLIMATE, SOIL TYPE, AND DURABILITY, MATS ARE USUALLY INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDED GUIDELINES, AFTER APPROPRIATE INSTALLATION, THE MATTING SHOULD BE CHECKED FOR: UNIFORM CONTACT WITH THE SOIL. SECURITY OF THE LAP JOINTS; AND FLUSHNESS OF THE STAPLES WITH THE GROUND.

MANUFACTURERS INFORMATION WILL VERIFY ACCEPTABLE APPLICATIONS FOR A PARTICULAR PRODUCT

LIMITATIONS: ALTHOUGH MATTING IS HIGHLY EFFECTIVE IN CONTROLLING EROSION, IT MAY BE LESS COST-EFFECTIVE THAN OTHER BMPS FOR EROSION CONTROL AND IT MAY REQUIRE A CONTRACTOR WITH CONSIDERABLE MAT INSTALLATION EXPERIENCE FOR INSTALLATION

MAINTENANCE REQUIREMENTS: MATTED AREAS MUST BE INSPECTED ON A WEEKLY BASIS, AND AFTER SIGNIFICANT (>0.5 INCH) RAINFALL, FOR BARE SPOTS CAUSED BY WEATHER RELATED EVENTS. MISSING OR LOOSENED MATTING MUST BE REPLACED OR RE-ANCHOREO





DESCRIPTION: VEGETATION, AS A BEST MANAGEMENT PRACTICE, IS THE SHOWING OF ANNUAL GRASSES, SMALL GRAINS OR LEGUMES TO PROVIDE INTERIM AND PERMANENT VEGETATIVE STABILIZATION FOR DISTURBED AREAS, UNLESS OTHERWISE SPECIFIED, BERMUDA GRASS IS TO BE USED FOR PERMANENT SEEDING. TEMPORARY STABILIZATION MAY BE ACHIEVED DURING WINTER BY SEEDING WITH RYE GRASS.

PRIMARY USE: VEGETATION IS USED AS A TEMPORARY OR PERMANENT STABILIZATION TECHNIQUE FOR AREAS DISTURBED BY CONSTRUCTION BUT NOT PROTECTED BY PAVEMENT, BUILDING OR OTHER STRUCTURES. AS A TEMPORARY CONTROL, VEGETATION IS USED TO BOILDING OF OTHER STRUCTURES. AS A TEMPORANT CURT NOT, YESETATION IS USED TO STABILIZE STOCKPILES AND BARREN AREAS WHICH ARE INACTIVE FOR LONG PERIODS OF TIME. AS A PERMANENT CONTROL, GRASSES AND OTHER YEGETATION PROVIDE GOOD PROTECTION FOR THE SOIL ALONG WITH SOME FILTERING FOR DYSTRAND RUNOFF, SUBJECTED TO ACCEPTABLE RUNOFF YELOCITIES, YEGETATION CAN PROVIDE A GOOD METHOD OF PERMANENT STORM WATER MANAGEMENT AS WELL AS A VISUAL AMENTY TO THE SITE. OTHER BMPS MAY BE REQUIRED TO ASSIST IN THE ESTABLISHMENT OF VEGETATION. THESE OTHER TEMPINGUES INCLUDE EROSION CONTROL MATTING, SWALES AND DIKES TO DIRECT FLOW AROUND NEWLY SEEDED AREAS AND PROPER GRADING TO LIMIT RUNOFF VELOCITIES DURING CONSTRUCTION

APPLICATIONS: VEGETATIVE TECHNIQUES CAN AND SHOULD APPLY TO EVERY CONSTRUCTION PROJECT WITH FEW EXCEPTIONS. VEGETATION EFFECTIVELY REDUCES EROSION IN SWALES. STOCK PLES, BERISS MILD TO MEDIUM SLOPES AND ALONG ROADWAYS. VEGETATIVE STRIPS CAN PROVIDE SOME PROTECTION WHEN USED AS A PERMISTER CONTROL, FOR UTILITY AND SITE DEVELOPMENT CONSTRUCTION. IN MANY CASES, THE INITIAL COST OF TEMPORARY SEEDING MAY BE HIGH COMPARED TO TARPS OR COVERS FOR STOCKPILES OR OTHER BRAREN AREAS SUBJECT TO EROSION YET INACTIVE. THIS INITIAL COST SHOULD BE WEIGHED WITH THE AMOUNT OF TIME THE AREA IS TO REMAIN INACTIVE, SINCE MAINTENANCE COST FOR VEGETATED AREAS IS MUCH LESS THEM MOST STRUCTURAL CONTROLS. MUCH LESS THEN MOST STRUCTURAL CONTROLS.

DESIGN CRITERIA: SURFACE PREPARATION, INTERIM OR FINAL GRADING MUST BE COMPLETED PRIOR TO SEEDING, MINIMIZING ALL STEEP SLOPES, INSTALL ALL NECESSARY EROSION STRUCTURES SUCH AS DIKES, SWALES, DIVERSIONS, ETC., PRIOR TO SEEDING, GROOVE OR PROPERTY OF THE STRUCTURES SUCH AS DIKES, SWALES, DIVERSIONS, ETC, PRIOR TO SEEDING, GROOVE OR FURROWS LOPES STEEPER THAN 31 ON THE CONTOUR LINE BEFORE SEEDING PROVIDE 4-6 INCHES OF TOPSOIL OVER UNSUFFACE SOILS, SEED-BED SHOULD BE WELL PULVERIZED, LOOSE AND UNFORM PLANT SELECTION, FERTULZATION AND SEEDING, USE ONLY HIGH GUALITY, USDA CERTIFIED SEED, FOR PERMANENT VEGETATIVE COVER DURING THE PERIOD FROM MARCH TO AUGUST LINE UNSUFFACE OVER DURING THE PERIOD FROM SEPTEMBER TO FEBRUARY INCLUSIVE JUSE HULLED BERMUDA GRASS APPLIED AT 10-12 POUNDS PER ACRE. FOR PERMANENT VEGETATIVE COVER DURING THE PERIOD FROM SEPTEMBER TO FEBRUARY INCLUSIVE) JUSE UNHULLED BERMUDA GRASS APPLIED AT 15-20 POUNDS PER ACRE. FOR TEMPORARY STABILIZATION ON DISTURBED AREAS OR STOCKPILES, USE RYE GRASS SEED APPLIED AT 40-50 POUNDS PER ACRE. FERTILIZER SHALL BE APPLIED ACCORDING TO THE MANUFACTURES RECOMMENDATION WITH PROPER SPREADER EQUIPMENT. TYPICAL APPLICATION RATE FOR 10-10-10 GRADE FERTILIZER IS 700-1000 POUNDS PER ACRE. DO NOT OVER APPLY FERTILIZER, IF MYDRO-SEEDING IS USED. DO NOT MY SEED FERTILIZER MORE THAN OVER APPLY FERTILIZER. IF HYDRO-SEEDING IS USED, DO NOT MIX SEED FERTILIZER MORE THAN OVEN APPLY FERRILIZER, IN HYDRO-SEEDING IS USED, DO NOT MIX SEED FERRILIZER MORE THAN 30 MINUTES BEFORE APPLICATION, EVENTLY APPLY SEED USING CYCLONE SEEDER, SEED BRILL, CULTIPACKER OR HYDROSEEDER, PROVIDE ADEQUATE WATER TO AID IN ESTABLISHMENT OF VEGETATION, USE APPROPRIATE MULCHING TECHNIQUES WHERE NECESSARY.

LIMITATIONS: VEGETATION IS NOT APPROPRIATE FOR AREAS SUBJECTED TO HEAVY PEDESTRIAN OR VEHICULAR TRAFFIC. AS A TEMPORARY TECHNIQUE, VEGETATION MAY BE COSTLY WHEN COMPARED TO OTHER TECHNIQUES. VEGETATION IS NOT APPROPRIATE FOR ROCK, GRAVEL, OR COARSE GRAINED SOILS UNLESS 4-6 INCHES OF TOPSOIL IS APPLIED

MAINTENANCE REQUIREMENTS: PROTECT NEWLY SEEDED AREAS FROM EXCESSIVE RUNOFF AND TRAFFIC UNTIL VEGETATION IS ESTABLISHED (MULCHING MAY BE NECESSARY). A WATERING AND FERTILIZING SCHEDULE WILL BE REQUIRED AS PART OF THE SWPPPTO ASSIST IN THE ESTABLISHMENT OF THE VEGETATION.



PARISH WIDE DRAINAGE PROJECT 2
JOHNSON CANAL PUMPING STATION INFLUENT CANAL DREDGING
POINTE COUPEE PARISH/OCD/DRU PROJECT NO. 39PARA3401-2 PF PREVENTION PLAN (1 903-01: STORM WATER POLLUTION CPS



13-183

January, 2019 8/25

DESCRIPTION: A SILT FENCE CONSISTS OF GEOTEXTILE FABRIC SUPPORTED BY POULTRY NETTING OR OTHER BACKING STRETCHED BETWEEN EITHER WOODEN OR METAL POSTS WITH THE LOWER EDGE OF THE FABRIC SECURELY EMBEDDED IN THE SOIL. THE FENCE IS TYPICALLY LOCATED DOWNSTREAM OF DISTURBED AREAS TO INTERCEPT RUNOFF IN THE FORM OF SHEET FLOW. SILT FENCE PROVIDES BOTH FILTRATION AND TIME FOR SEDIMENTATION TO REDUCE SEDIMENT AND IT REDUCES THE VELOCITY OF THE RUNOFF, PROPERLY DESIGNED SILT FENCE IS ECONOMICAL SINCE IT CAN BE RE-LOCATED DURING CONSTRUCTION AND RE-USED ON THE PROJECTS.

PRIMARY USE: SILT FENCE IS NORMALLY USED AS PERIMETER CONTROL LOCATED DOWNSTREAM OF DISTURBED AREAS. IT IS ONLY FEASIBLE FOR NON-CONCENTRATED, SHEET FLOW CONDITIONS

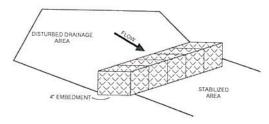
APPLICATIONS: SILT FENCE IS AN ECONOMICAL MEANS TO TREAT OVERLAND, NON-CONCENTRATED FLOWS FOR ALL TYPES OF PROJECTS. SILT FENCES ARE USED AS PERIMETER CONTROL DEVICES FOR BOTH SITE DEVELOPMENTS AND USED AS PERMIETER CONTROL DEVICES FOR BUILT SITE DEVELOPMENTS AND LINEAR (ROADWAY) TYPE PROJECTS. THEY ARE MOST EFFECTIVE WITH COARSE TO SILTY SOIL TYPES. DUE TO THE POTENTIAL OF CLOGGING, SILT FENCE SHOULD NOT BE USED WITH CLAY SOIL TYPES. IN ORDER TO REDUCE THE LENGTH OF SILT FENCE, IT SHOULD NE PLACED ADJACENT TO THE DOWN SLOPE SIDE OF THE CONSTRUCTION ACTIVITIES.

DESIGN CRITERIA: FENCES ARE TO BE CONSTRUCTED ALONG A LINE OF DESIGN GRI ERIA: FERGES ARE TO BE OUTSTROUTED ALSING A LINE OF CONSTANT ELEVATION (ALONG A CONTOUR LINE) WHERE POSSIBLE. MAXIMUM SLOPE ADJACENT TO THE FENCE IS 1:1. MAXIMUM DISTANCE OF FLOW TO THE SILT SLOPE ADJACENT TO THE PENGE IS 11. MAXIMUM CONSTRAINED OF FLOW TO THE S FENCE SHALL BE 200 FEFT OR LESS. MAXIMUM CONCENTRATED FLOW TO SILT FENCE SHALL BE 1 OFS PER 20 FEET OF FENCE IF 50% OR LESS OF SOIL, BY WEIGHT, PASSES THE US STANDARD SIEVE NO. 200, SELECT THE EQUIVALENT OPENING SIZE (E.O.S.) TO RETAIN 85% OF THE SOIL. MAXIMUM EQUIVALENT OPENING SIZE SHALL BE 70 (#70 SIEVE). MINIMUM EQUIVALENT OPENING SIZE SHALL BE 100 (#100 SIEVE) IF 85% OR MORE OF SOIL, BE WEIGHT, PASSES THE U.S. STANDARD SIEVE NO. 20, SILT FENCES SHALL NOT BE USED DUE TO POTENTIAL CLOGGING. SUFFICIENT ROOM FOR THE OPERATION OF SEDIMENT REMOVAL EQUIPMENT SHALL BE PROVIDED BETWEEN THE SILT FENCE AND OTHER OBSTRUCTIONS IN ORDER TO PROPERLY MAINTAIN THE FENCE. THE ENDS OF THE FENCE SHALL BE TURNED UPSTREAM TO PREVENT BYPASS OF STORMWATER

LIMITATIONS: MINOR PONDING WILL LIKELY OCCUR AT THE UPSTREAM AIDE OF THE SILT FENCE RESULTING IN MINOR LOCALIZED FLOODING. FENCES WHICH ARE CONSTRUCTED IN SWALES OR LOW AREAS SUBJECT TO CONCENTRATED FLOW MAY BE OVERTOPPED RESULTING IN FAILURE OF THE FILTER FENCE. SILT FENCES SUBJECT TO AREAS OF CONCENTRATED FLOW (WATERWAYS WITH FLOWS > 1 CFS) ARE NOT ACCEPTABLE. SILT FENCE CAN INTERFERE WITH CONSTRUCTION OPERATIONS, THEREFORE PLANNING OF ACCESS ROUTES ONTO THE SITE IS CRITICAL. SILT FENCE CAN FAIL STRUCTURALLY UNDER HEAVY STORM FLOWS CREATING MAINTENANCE PROBLEMS AND REDUCING THE EFFECTIVENESS OF THE

MAINTENANCE REQUIREMENTS: INSPECTIONS SHOULD BE MADE ON A WEEKLY BASIS, ESPECIALLY AFTER LARGE STORM EVENTS. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE CLEANED OR IF NECESSARY REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY ONE-HALF THE HEIGHT





DESCRIPTION: A STRAW BALE DIKE IS A TEMPORARY BARRIER CONSTRUCTED OF STRAW BALES ANCHORED WITH WOOD POSTS, THAT IS USED TO INTERCEPT SEDIMENT-LADER RUNOFF GENERATED BY SMALL DISTURBED AREAS. THE STRAW BALES CAN SERVE AS BOTH A FILTRATION DEVICE AND A DAMPINE DEVICE TO DISTURBED AREAS, THE STRAW BALES CAN SERVE AS BUTTA A FILTRATION DEVICE AND A DAMADIKE DEVICE TO TREAT AND REDIRECT FLOW BALES CAN CONSIST OF HAY OR STRAWIN WHICH STRAW IS DEFINED AS BEST QUALITY STRAWFROM WHEAT, OATS, OR BARLEY, FREE OF WEED AND GRASS SEED AND HAY IS DEFINED AS STRAW WHICH INCLUDES WEED AND GRASS SEED

PRIMARY USE: A STRAW BALE DIKE IS USED TO TRAP SEDIMENT-LADEN STORM RUNOFF FROM SMALL DRAINAGE AREAS WITH RELATIVELY LEVEL GRADES, ALLOWING FOR REDUCTION OF VELOCITY THEREBY CAUSING SEDIMENT TO SETTLE OUT.

APPLICATIONS: STRAW BALE DIKES ARE USED TO TREAT FLOW AFTER IT LEAVES A DISTURBED AREA ON A RELATIVELY SMALL (<1 ACRE) SITE. DUE TO THE LIMITED UPE OF THE STRAW BALE, IT IS COST EFFECTIVE FOR SMALL PROJECTS OF A SHORT DURATION. THE LIMITED WEIGHT AND STRENGTH OF THE STRAW BALE MAKES IT SUITABLE FOR SMALL, FLAT (<2 PERCENT SLOPE) CONTRIBUTING DRAINAGE AREAS. DUE TO THE PROBLEMS IT SOFT ABOUT FOR SMALL, FLAT (\$2 FERVER) SCOPE FOR STRING THAN DEPARTMENT AND THE FOR SMALL RESIDENTIAL APPLICATIONS. STRAW BALES, THEIR USE IS DISCOURAGED EXCEPT FOR SMALL RESIDENTIAL APPLICATIONS. STRAW BALES CAN ALSO BE USED AS CHECK DAMS (SEE CHECK DAM BMP S-7) FOR SMALL WATERCOURSES SUCH AS INTERCEPTOR SWALES AND BORROW DITCHES, DUE TO THE PROBLEMS IN SECURELY ANCHORING THE BALES, ONLY SMALL WATERCOURSES CAN EFFECTIVELY USE STRAW BALE CHECK DAMS.

DESIGN CRITERIA: STRAW BALE DIKES ARE TO BE CONSTRUCTED ALONG A LINE OF CONSTANT ELEVATION (ALONG A CONTOUR LINE). STRAW BALE DIKES ARE SUITABLE ONLY FOR TREATING SHEET FLOWS ACROSS GRADES OF 2% OR FLATTER. MAXIMUM CONTRIBUTING DRAINAGE AREA SHALL BE 0.25 ACRE PER 100 LINEAR FEET OF DIES MAXIMUM DISTANCE OF FLOW TO DIES SHOULD BE 100 FEET OR LESS, DIMENSIONS FOR INDIVIDUAL BALES SHALL BE 30 INCHES MINIMUM LENGTH, 18 INCHES MINIMUM HEIGHT, 24 INCHES MINIMUM LENGTH, 18 INCHES MINIMUM HEIGHT, 24 INCHES MINIMUM HEIGHT, 24 INCHES MINIMUM MINIM MOTH AND SHALL BEIGH NO LESS THAN 50 POUNDS WHEN DRY, EACH STRAW BALE SHALL BE PLACED INTO AN EXCAVATED TRENCH HAVING A DEPTH OF 4 INCHES AND A WIDTH JUST WIDE ENOUGH TO ACCOMMODATE THE BALES THEMSELVES. STRAW BALES SHALL BE INSTALLED IN SUCH A WAY THAT THERE IS NO SPACE

BELIVEEN BALES.
INDIVIDUAL BALES SHALL BE HELD IN PLACE BY AT LEAST TWO WOOD STAKES DRIVEN A MINIMUM DISTANCE
OF 6 INCHES BELOW THE 4" EXCAVATED TRENCH TO UNDISTURBED GROUND, WITH THE FIRST STAKE DRIVEN
AT AM ANGLE TOWARD THE PREVIOUSLY INSTALLED BALE. THE RODS OF THE DIKE SHALL BE TURNED
UPGRADE TO PREVENT BYPASS OF STORMWATER. PLACE BALES ON SIDES SUCH THAT BYDNINGS ARE NOT

LIMITATIONS: DUE TO A SHORT EFFECTIVE LIFE CAUSED BY BIOLOGICAL DECOMPOSITION, STRAW BALES MUST BE REPLACED ATER A PERIOD OF NO MORE THAN 3 MONTHS. DURING THE WET AND WARM SEASONS.
HOWEVER, THEY MUST BE REPLACED MORE FREQUENTLY AS IS DETERMINED BY PERIODIC INSPECTIONS FOR STRUCTURAL INTEGRITY, STRAW BALE DIKES ARE NOT RECOMMENDED FOR USE WITH CONCENTRATED FLOWS OF ANY KIND EXCEPT FOR SMALL CHECK FLOWS IN WHICH THEY CAN SERVE AS A CHECK DAM. THE EFFECTIVENESS OF STRAW BALES IN REDUCING SEDIMENT IS VERY LIMITED. IMPROPERLY MAINTAINED. STRAW BALES CAN HAVE A NEGATIVE IMPACT ON THE WATER QUALITY OF THE RUNOFF

MAINTENANCE REQUIREMENTS: STRAW BALES SHALL BE REPLACED IF THERE ARE SIGNS OF DEGRADATION SUCH AS STRAW LOCATED DOWNSTREAM FROM THE BALES, STRUCTURAL DEFICIENCIES DUES TO ROTTING STRAWIN THE BALE OR OTHER SIGNS OF DETERIORATION. SEDIMENT SHOULD BE REMOVED FROM BEHIND THE BALES WHEN IT REACHES A DEPTH OF APPROXIMATELY 6 INCHES.



PARISH WIDE DRAINAGE PROJECT 2
JOHNSON CANAL PUMPING STATION INFLUENT CANAL DREDCING
POINTE COUPEE PARISH/OCD/DRU PROJECT NO. 39PARA3401-2 OF 11) WATER POLLUTION PREVENTION PLAN (2 STORM



903-01:

CPS

January, 2019

DESCRIPTION: A DIVERSION DIKE IS A COMPACTED SOIL MOUND WHICH REDIRECTS RUNOFF TO A DESIRED LOCATION. THE DIKE IS TYPICALLY STABILIZED. WITH NATURAL GRASS FOR LOW VELOCITIES OR WITH STONE OR EROSION CONTROL MATS FOR HIGHER VELOCITIES.

PRIMARY USE: THE DIVERSION DIKE IS NORMALLY USED TO INTERCEPT OFFSITE FLOW UPSTREAM OF THE CONSTRUCTION AREA AND DIRECT THE FLOW AROUND THE DISTURBED SOILS. IT CAN ALSO BE USED DOWNSTREAM OF THE CONSTRUCTION AREA TO DIRECT FLOWINTO A SEDIMENT REDUCTION DEVICE SUCH AS A SEDIMENT BASIN OR PROTECTED INLET. THE DIVERSION DIKE SERVES THE SAME PURPOSE AND, BASED ON THE TOPOGRAPHY OF THE SITE, CAN BE USED IN COMBINATION WITH AN INTERCEPTOR SWALE.

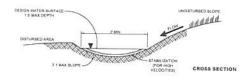
APPLICATIONS: BY INTERCEPTING RUNOFF BEFORE IT HAS THE CHANCE TO CAUSE EROSION, DIVERSION DIKES ARE VERY EFFECTIVE IN REDUCING EROSION AT THE REASONABLE COST, THEY ARE APPLICABLE TO A LARGE VARIETY OF PROJECTS INCLUDING SITE DEVELOPMENTS AND LINEAR PROJECTS SUCH AS ROADWAYS AND PIPELINE CONSTRUCTION. DIVERSION DIKES ARE NORMALLY USED AS PERIMETER CONTROLS FOR CONSTRUCTION SITES WITH LARGE AMOUNTS OF OFFSITE FLOW FROM NEIGHBORING PROPERTIES. USED IN COMBINATION WITH SWALES. THE DIVERSION DIKE CAN BE QUICKLY INSTALLED WITH A MINIMUM OF EQUIPMENT AND COST, USING THE SWALE EXCAVATION AS THE DIKE. NO SEDIMENT REMOVAL TECHNIQUE IS REQUIRED IF THE DIKE IS PROPERLY STABILIZED AND THE RUNOFF IS INTERCEPTED PRIOR TO CROSSING DISTURBED AREAS.

DESIGN CRITERIA: THE MAXIMUM CONTRIBUTING DRAINAGE AREA SHOULD BE 10 ACRES OR LESS. MAXIMUM DEPTH OF FLOW AT THE DIKE SHALL BE 1 FOOT FOR 2 YEAR DESIGN STORM. THE MAXIMUM WIDTH OF THE FLOW AT THE DIKE SHALL BE 20 FEET, SIDE SLOPES OF THE DIVERSION DIKE SHALL BE 31 OR FLATTER MINIMUM WIDTH OF THE EMBANKMENT AT THE TOP SHALL BE 2 FEET, MINIMUM EMBANKMENT HEIGHT SHALL BE 18 INCHES AS MEASURED FROM THE TOP OF SLOPE ON THE UPGRADE SIDE OF THE BERM. FOR VELOCITIES LESS THAN 6 FEET PER SECOND. THE MINIMUM STABILIZATION FOR THE DIKE AND ADJACENT FLOW AREAS IS GRASS, EROSION CONTROL MATS OR MULCH, FOR VELOCITIES GREATER THAN 5 FEET PER SECOND, STONE STABILIZATION OR HIGH VELOCITY EROSION CONTROL MATS SHOULD BE USED VELOCITIES GREATER THAN 8 FEET PER SECOND MUST BE APPROVED BY THE LOCAL JURISDICTION. THE DIKES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS WHICH ARE PROTECTED BY THE DIKE ARE PERMANENTLY STABILIZED UNLESS OTHER CONTROLS ARE PUT INTO PLACE TO PROTECT THE DISTURBED AREA. FLOW LINE AT DIKE SHALL HAVE A POSITIVE GRADE TO DRAIN TO A CONTROLLED OUTLET

LIMITATIONS: COMPACTED EARTH DIKES REQUIRE STABILIZATION IMMEDIATELY UPON PLACEMENT SO AS NOT TO CONTRIBUTE TO THE PROBLEM THEY ARE ADDRESSING. THE DIVERSION DIKES CAN BE A HINDERANCE TO CONSTRUCTION EQUIPMENT MOVING ON THE SITE, THEREFORE THEIR LOCATIONS MUST BE CAREFULLY PLANNED PRIOR TO INSTALLATION.

MAINTENANCE REQUIREMENTS: DIKES MUST BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH SIGNIFICANT (>0.5 INCH) RAINFALL TO DETERMINE IF SILT IS BUILDING UP BEHIND THE DIKE, OR IF EROSION IS OCCURRING ON THE FACE OF THE BOILING OF BEHIND THE BARE OF THE ENGLISH SECTION SOCIETY OF THE FACE OF THE DIKE, SITE TRALE BE REMOVED IN A TIMELY MANNER. IF EROSION IS OCCURRING ON THE FACE OF THE DIKE, THE SLOPES OF THE FACE SHALL EITHER BE STABILIZED THROUGH MULCH OR SEEDING OR THE SLOPES OF THE FACE SHALL BE REDUCED.





DESCRIPTION: AN INTERCEPTOR SWALE IS A SMALL V-SHAPED OR PARABOLIC CHANNEL WHICH COLLECTS RUNOFF AND DIRECTS IT TO A DESIRED LOCATION, IT CAN EITHER HAVE A NATURAL GRASS LINING OR DEPENDING ON SLOPE AND DESIGN VELOCITY, A PROTECTIVE LINING OF EROSION MATTING, STONE OR CONCRETE

PRIMARY USE: THE INTERCEPTOR SWALE CAN EITHER BE USED TO DIRECT SEDIMENT LADEN FLOW FROM DISTURBED AREAS. SINCE THE SWALE IS EASY TO INSTALL DURING EARLY GRADING OPERATIONS, IT CAN SERVE AS THE FIRST LINE OF DEFENSE IN REDUCING RUNOFF ACROSS DISTURBED AREAS AS A METHOD OF REDUCING RUNOFF ACROSS THE DISTURBED CONSTRUCTION AREA, IT REDUCES THE REQUIREMENTS OF STRUCTURAL MEASURES TO CAPTURE SEDIMENT FROM RUNOFF SINCE THE FLOW IS REDUCED. BY INTERCEPTING SEDIMENT LADEN FLOW DOWNSTREAM OF THE DISTURBED AREA, RUNOFF CAN BE DIRECTED INTO A SEDIMENT BASIN OR OTHER BMP FOR SEDIMENTATION AS OPPOSED TO LONG RUNS OF SILT FENCE, STRAW BALES OR OTHER FILTRATION METHOD. BASED ON SITE TOPOGRAPHY, SWALES CAN BE EFFECTIVELY USED IN COMBINATION WITH DIVERSION DIKES

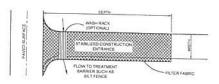
APPLICATIONS: COMMON APPLICATIONS FOR INTERCEPTOR SWALES INCLUDE ROADWAY PROJECTS, SITE DEVELOPMENT PROJECTS WITH SUBSTANTIAL OFFSITE FLOW IMPACTING THE SITE AND SITES WITH A LARGE AREA(S) OF DISTURBANCE. IT CAN BE USED IN CONJUNCTION WITH DIVERSION DIKES TO INTERCEPT FLOWS. TEMPORARY SWALES CAN BE USED THROUGHOUT THE PROJECT TO DIRECT FLOWS AWAY FROM STAGING, STORAGE AND FUELING AREAS ALONG WITH SPECIFIC AREAS OF CONSTRUCTION, NOTE THAT RUNOFF WHICH CROSSES DISTURBED AREAS OR IS DIRECTED INTO UNSTABILIZED SWALES MUST BE ROUTED INTO A TREATMENT BMP SUCH AS A SEDIMENT BASIN, GRASS LINED SWALES ARE AN EFFECTIVE PERMANENT STABILIZATION TECHNIQUE. THE GRASS EFFECTIVELY FILTERS BOTH SEDIMENT AND OTHER POLLUTANTS WHILE REDUCING

DESIGN CRITERIA: MAXIMUM DEPTH OF FLOW IN THE SWALE SHALL BE 15 FEET BASED ON A 2 YEAR DESIGN STORM PEAK FLOW. POSITIVE OVERFLOW MUST NE PROVIDED TO ACCOMMODATE LARGER STORMS. SIDE SLOPES OF THE SWALE SHALL BE 3:1 OR FLATTER. MINIMUM DESIGN CHANNEL FREEDOARD SHALL BE 6 INCHES THE MINIMUM REQUIRED CHANNEL STABILIZATION FOR GRADES LESS THAN 2 PERCENT AND VELOCITIES LESS THAN 6 FEET PER SECOND MAY BE GRASS, EROSION CONTROL MATS OR MULCHING, FOR GRADES IN EXCESS OF 2 PERCENT, OR VELOCITIES EXCEEDING 6 FEET PER SECOND STABILIZATION IN THE FORM OF HIGH VELOCITY EROSION MATS, A THREE INCH LAYER OF CRUSHED STONE OR RIP RAP IS REQUIRED. VELOCITIES GREATER THAN 8 FEET PER SECOND WILL REQUIRE APPROVAL BY THE PROGRAM MANAGER. CHECK DAMS CAN BE USED TO REDUCE VELOCITIES IN STEEP SWALES. SEE CHECK DAM BMP FACT SHEET FOR DESIGN CRITERIA. INTERCEPTOR SWALES MUST BE DESIGNED FOR FLOW CAPACITY BASED ON MANNING'S EQUATION TO ENSURE A PROPER CHANNEL SECTION ALTERNATE CHANNEL SECTIONS MAY BE USED WHEN PROPERLY DESIGNED AND ACCEPTED. CONSIDERATION MUST BE GIVEN TO THE POSSIBLE IMPACT THAT ANY SWALE MAY HAVE ON UPSTREAM OR DOWNSTREAM CONDITIONS, SWALES MUST MAINTAIN POSITIVE GRADE TO AN ACCEPTABLE OUTLET

LIMITATIONS: INTERCEPTOR SWALES MUST BE STABILIZED QUICKLY UPON EXCAVATION SO AS NOT TO CONTRIBUTE TO THE EROSION PROBLEM THEY ARE ADDRESSING, SWALES MAY BE UNSUITABLE TO THE SITE CONDITIONS (TOO FLAT OR STEEP). LIMITED FLOW CAPACITY FOR TEMPORARY SWALES. FOR PERMANENT SWALES, THE 1.5 FEET MAXIMUM DEPTH CAN BE INCREASED AS LONG AS SITE ACCESS IS NOT IMPEDED.

MAINTENANCE REQUIREMENTS: INSPECTION MUST BE MADE WEEKLY AND AFTER EACH SIGNIFICANT (0.5" OR GREATER) RAIN EVENT TO LOCATE AND REPAIR ANY DAMAGE TO THE CHANNEL OR TO CLEAR DEBRIS OR OTHER OBSTRUCTIONS SO AS NOT TO DIMINISH FLOW CAPACITY, DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE RUTS OR DISTURBANCE OF SWALE STABILIZATION SHALL BE REPAIRED AS SOON AS





DESCRIPTION: A STABILIZED CONSTRUCTION ENTRANCE CONSISTS OF A PAD CONSISTING OF GRAVEL, CRUSHED STONE, RECYCLED CONCRETE OR OTHER ROCK LIKE MATERIAL ON TOP OF GEOTEXTILE FILTER CLOTH TO FACILITATE THE WASH DOWN AND REMOVAL OF SEDIMENT AND OTHER DEBRIS FROM CONSTRUCTION EQUIPMENT PRIOR TO EXITING THE CONSTRUCTION SITE. FOR ADDED EFFECTIVENESS, A WASH RACK AREA CAN BE INCORPORATED INTO THE DESIGN TO FURTHER REDUCE SEDIMENT TRACKING. FOR LONG TERM PROJECTS, CATTLE GUARDS OR OTHER TYPE OF PERMANENT RACK SYSTEM CAN BE USED IN CONJUNCTION WITH A WAS RACK. THIS DIRECTLY ADDRESSES THE PROJECT OF SILT AND MUD DEPOSITION IN ROADWAYS USED FOR CONSTRUCTION SITE ACCESS

PRIMARY USE: STABILIZED CONSTRUCTION ENTRANCES ARE USED PRIMARILY FOR SITES IN WHICH SIGNIFICANT TRUCK TRAFFIC OCCURS ON A DAILY BASIS. IT REDUCES THE NEED TO REMOVE SEDIMENT FROM STREETS, IF USED PROPERLY, IT ALSO DIRECTS THE MAJORITY OF TRAFFIC TO A SINGLE LOCATION, REDUCING THE NUMBER AND QUANTITY OF DISTURBED AREAS ON THE SITE AND PROVIDING PROTECTION FOR OTHER STRUCTURAL CONTROLS THROUGH TRAFFIC CONTROL

APPLICATIONS: STABILIZED CONSTRUCTION ENTRANCES ARE REQUIRED PART OF THE EROSION CONTROL PLAN FOR ALL SITE DEVELOPMENTS LARGER THAN 5 ACRES AND A RECOMMENDED PRACTICE FOR ALL CONSTRUCTION SITES. IT IS NOT SUITABLE FOR LONG, LINEAR PROJECTS IF POSSIBLE, SMALL ENTRANCES SHOULD BE INCORPORATED INTO SMALL LOT CONSTRUCTION DUE TO THE LARGE PERCENTAGE OF DISTURBED AREA ON THE SITE AND THE HIGH POTENTIAL FOR OFFSITE TRACKING OF SILT AND MUD.

DESIGN CRITERIA: STABILIZED CONSTRUCTION ENTRANCES ARE TO BE CONSTRUCTED SUCH THAT DRAINAGE ACROSS THE ENTRANCE IS DIRECTED TO A CONTROLLED, STABILIZED OUTLET ON SITE WITH PROVISIONS FOR STORAGE, THE ENTRANCE MUST BE PROPERLY UDITED ON SHE WHITP PROVISIONS FOR SHOREME, THE ENTIRENCE MUST BE PROPERLY GRADED SO THAT STORM WATER IS NOT ALLOWED TO LEAVE THE SITE AND ENTER ROADWAYS, MINIMUM WIDTH OF ENTRANCE SHALL BE 15 FEET, BUT IN NO CASE SHALL THE WIDTH BE LESS THAN THAT OF THE ENTRY WAY TO BE USED. MINIMUM DEPTH OF ENTRANCE SHALL BE 8 INCHES FOR THE ENTIRE LENGTH OF THE CONTROL, MINIMUM DIMENSIONS FOR THE ENTRANCE SHALL BE AS FOLLOWS:

TRACT AREA	AVG. LOT DEPTH	MIN. WIDTH OF ENTRANCE	MIN. DEPTH OF ENTRANCE
< 1 ACRE	100 FEET	15 FEET	20 FEET
< 5 ACRES	200 FEET	20 FEET	30 FEET
< 10 ACRES	> 200 FEET	20 FEET	40 FEET
> 10 ACRES	> 200 FEET	25 FEET	50 FEET

LIMITATIONS: SELECTION OF THE CONSTRUCTION ENTRANCE LOCATION IS CRITICAL IN THAT TO BE EFFECTIVE, IT MUST BE USED EXCLUSIVELY. STABIUZED ENTRANCES ARE RATHER EXPENSIVE CONSIDERING THAT IT MUST BE INSTALLED IN COMBINATION WITH ONE OR MORE OTHER SEDIMENT CONTROL TECHNIQUES, BUT IT MAY BE COST EFFECTIVE COMPARED TO LABOR INTENSIVE STREET CLEANING.

MAINTENANCE REQUIREMENTS: INSPECTIONS SHOULD BE MADE ON A REGULAR BASIS AND AFTER LARGE STORM EVENTS IN ORDER TO ASCERTAIN WHETHER OR NOT SEDIMENT AND POLLUTION ARE BEING EFFECTIVELY DETAINED ON SITE. WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS, THE AGGREGATE MAT MUST BE WASHED DOWN OR REPLACED. PERIODIC RE-GRADING AND TOP DRESSING WITH ADDITIONAL STONE MUST BE DONE TO KEEP THE EFFICIENCY OF THE ENTRANCE FROM DIMINISHING



PARISH WIDE DRAINAGE PROJECT 2
NAL PUMPING STATION INFLUENT CANAL DREDGING
PEE PARISH/OCD/DRU PROJECT NO. 39PARA3401-2 4 5 PLAN PREVENTION POLLUTION WATER STORM JOHNSON CANAL POINTE COUPEE 903-01: CPS



EVISIONS

13-183 January, 2019 10/25

DESCRIPTION: DUST CONTROL MEASURES ARE USED TO STABILIZE SOIL FROM WIND EROSION, DESCRIPTION: LOST CONTROL MEASURES ARE USED TO STABILIZE SOLE FROM WHILD ENCOUNT AND REDUCE DUST GENERATED BY CONSTRUCTION ACTIVITIES. DUST WHICH SETTLES ON SURFACES BOTH ON-SITE AND OFF-SITE MAY BE WASHED BY STORM WATER INTO WATERWAYS.

APPLICATIONS: CLEARING AND GRADING ACTIVITIES. CONSTRUCTION VEHICLES TRAFFIC ON UNPAVED ROADS

DRILLING AND BLASTING ACTIVITIES, SEDIMENT TRACKING ONTO PAVED ROADS. SOIL AND DEBRIS STORAGE PILES BATCH DROP FROM FRONT END LOADERS. AREAS WITH UNSTABILIZED SOIL

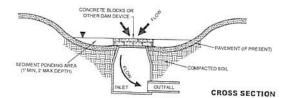
DESIGN CRITERIA: SCHEDULE CONSTRUCTION ACTIVITIES TO MINIMIZE THE AREA WHERE, AND TIME PERIOD WHEN SOILS ARE EXPOSED, QUICKLY STABILIZE EXPOSED SOILS USING VEGETATION, MULCHING, SPRAY-ON ADHESIVES, CALCIUM CHLORIDE, SPRINKLING, AND STONEGRAVEL LAYERING, IDENTIFY AND STABILIZE KEY ACCESS PRINKLING, AND STONEGRAVEL LAYERING, IDENTIFY AND STABILIZE KEY ACCESS POINTS PRIOR TO COMMENCEMENT OF CONSTRUCTION, MINIMIZING THE IMPACT OF DUST BY ANTICIPATING THE DIRECTION OF PREVAILING WINDS, DIRECT MOST CONSTRUCTION TRAFFIC TO STABILIZE ROADWAYS WITHIN THE PROJECT SITE

LIMITATIONS: WATERING PREVENTS DUST ONLY FOR A SHORT PERIOD AND SHOULD BE APPLIED DAILY (OR MORE OFTEN) TO BE EFFECTIVE. OVERWATERING MAY CAUSE A CONTAMINATED EROSION, OILS SHOULD NOT BE USED FOR DUST CONTROL BECAUSE IT MAY MIGRATE INTO DRAINAGEWAY AND/OR SEEP INTO THE SOIL. CERTAIN CHEMICALLY-TREATED SUBGRADES MAY MAKE SOIL WATER REPELLENT, INCREASING RUNOFF.

MAINTENANCE REQUIREMENTS: MOST DUST CONTROL MEASURES REQUIRE FREQUENT, OFTEN

ADDITIONAL INFORMATION: DUST CONTROL BMP'S GENERALLY STABILIZE EXPOSED DUST PARTICLES. FOR HEAVILY TRAVELED AND DISTURBED AREAS, WET SUPPRESSION (WATERING), CHEMICAL DUST SUPPRESSION, GRAVEL OR ASPHALT SURFACING, TEMPORARY GRAVEL CHEMICAL DUST SUPPRESSION, GRAVEL OR ASPHALT SURFACING, TEMPORARY GRAVEL CONSTRUCTION ENTRANCES, EQUIPMENT WASH-OUT AREAS, AND HAUL TRUCK COVERS CAN BE EMPLOYED AS A DUST CONTROL APPLICATION. PERMANENT OR TEMPORARY VEGETATION AND MULCHING AND FENCES CAN BE EMPLOYED FOR AREAS OF OCCASIONAL OR NO CONSTRUCTION TRAFFIC. PREVENTIVE MEASURES WOULD INCLUDE MINIMIZING SURFACE AREAS TO BE DISTURBED. MANY OF THE REASONABLY AVAILABLE CONTROL MEASURES FOR CONTROLLING DUST FROM MANY OF THE REASONABLY AVAILABLE CONTROL MEASURES FOR CONTROLLING DUST FROM CONSTRUCTION SITES CAN ALSO BE IMPLEMENTED AS 8MPS FOR STORM WATER POLLUTION PREVENTION. THOSE 8MPS INCLUDE: PAVE, VEGETATE, OR CHEMICALLY STABILIZE ACCESS POINTS WHERE UNPAVED TRAFFIC SURFACES ADJOIN PAVED ROADS, PROVIDE COVERS FOR HAUL TRUCK TRANSPORTING MATERIALS THAT CONTRIBUTE TO DUST, PROVIDE SUPPRESSION OR CHEMICAL STABILIZATION OF EXPOSED SOILS PROVIDE FOR RAPID CLEAN-UP OF SEDIMENTS DEPOSITED ON PAVED ROADS, FURNISH STABILIZED CONSTRUCTION ROAD ENTRANCES AND VEHICLE WASH DOWN ADREAS CRABILIZE LINDAUED HAVE PROVIDED ADDIVING AND STABILIZED ROBES DEPOSITED. AREAS STABILIZE UNPAVED HAUL ROADS, PARKING AND STAGING AREAS. REDUCE SPEED AND ARCAS, STABILIZE UNITAVELI PAUL TOMOS, PARINTO AIRO STABILIDA ARCAS, RICOVALES STABILIZE TOMOS AIRO STABILIZE UNITAVELI PAUL TOMOS AIRO STABILIZE PREVENT DRAINAGE OF SEDIMENT LADEN STORM WATER ONTO PAVED SURFACES, STABILIZE ABANDONED CONSTRUCTION SITES USING VEGETATION OR CHEMICAL STABILIZATION METHODS. LIMIT THE AMOUNT OF AREAS DISTURBED BY CLEARING AND EARTH MOVING OPERATIONS BY SCHEDULING THESE ACTIVITIES IN PHASES. FOR THE CHEMICAL STABILIZATION, THERE ARE MANY PRODUCTS AVAILABLE AS DUST PALLIATIVES FOR CHEMICALLY STABILIZING GRAVEL ROADWAYS AND STOCKPILES. IN ADDITION, THERE ARE MANY OTHER BMPS IDENTIFIED IN THIS: SEEDING AND PLANTINGS, STABILIZED CONSTRUCTION ENTRANCES, CONSTRUCTION ROAD STABILIZATION, AND MULCHING.





DESCRIPTION: INLET PROTECTION CONSISTS OF A VARIETY OF METHODS OF INTERCEPTING SEDIMENT AT LOW POINT INLETS THROUGH THE USE OF STONE, FILTER FABRIC AND OTHER MATERIALS. THIS IS NORMALLY LOCATED AT THE INLET, PROVIDING EITHER DETENTION OR FILTRATION TO REDUCE SEDIMENT AND FLOATABLE MATERIALS IN

PRIMARY USE: INLET PROTECTION IS NORMALLY USED AS A SECONDARY DEFENSE IN SITE EROSION CONTROL IT IS NORMALLY USED IN NEW DEVELOPMENTS THAT INCLUDE NEW INLETS OR ROADS WITH NEW CURB INLETS OR DURING MAJOR REPAIRS TO EXISTING ROADWAYS, INLET PROTECTION HAS LIMITED USE IN DEVELOPED AREAS DUE TO THE POTENTIAL FOR FLOODING, TRAFFIC SAFETY AND PEDESTRIAN SAFETY AND MAINTENANCE PROBLEMS. INLET PROTECTION CAN REDUCE SEDIMENT IN STORM SEWER SYSTEM BY SERVING AS A BACK UP SYSTEM TO ONSITE CONTROLS OR BY REDUCING SEDIMENT LOADS FROM CONTROLS WITH LIMITED EFFECTIVENESS SUCH AS STRAW BALE DIKES.

APPLICATIONS: DIFFERENT VARIATIONS ARE USED FOR DIFFERENT CONDITIONS AS FOLLOWS. FILTER BARRIER PROTECTION (SIMILAR TO A SILT FENCE BARRIER AROUND THE INLET) IS APPROPRIATE WHEN THE DRAINAGE AREA IS LESS THAN ONE ACRE AND THE BASIN INLE I ID APPROPRIATE WHEN THE UNMANGE AREA TO LESS THAN UNE AGUE AND THE BASIS SLOPE IS LESS THAN FIVE (6) PERCENT. THIS TYPE OF PROTECTION IS NOT APPLICABLE IN PAVED AREAS. BLOCK AND GRAVEL (CRUSHED STONE, RECYCLED CONCRETE IS ALSO APPROPRIATE) PROTECTION IS USED WHEN FLOWS EXCEED 0.5 C.F.S. AND IT IS NECESSARY APPROPRIATE PROTECTION IS USED WHEN PLOWS EXCEED 0.0 F.S. AND IT IS NECESS. TO ALLOW FOR OVERTOPPING TO PREVENT. FLOODING WIRE MESH AND GRAVEL. PROTECTION (CRUSHED STONE, RECYCLED CONCRETE IS ALSO APPROPRIATE) IS USED. WHEN FLOWS EXCEED 0.5 C.F.S. AND MAY BE USED WITH BOTH CURD AND DROP INLETS. PROTECTION AGAINST SEDIMENT ENTERTION AROUND A DROP INLET MAY BE USED FOR PROTECTION AGAINST SEDIMENT ENTERING A STORM DRAIN SYSTEM, WITH THIS PROTECTION AGAINST SEDIMENT ENTERING A STORM DRAIN SYSTEM. WITH THIS METHOD, IT IS NECESSARY TO INSTALL WEEP HOLES TO ALLOW THE IMPOUNDMENT TO DRAIN COMPLETELY. THE IMPOUNDMENT SHALL BE SIZED SUCH THAT THE VOLUME OF EXCAVATION SHALL BE EQUAL TO 1800 TO 3600 CUBIC FEET PER ACRE OF CONTRIBUTING DRAINAGE AREA ENTERING THE INLET FOR FULL EFFECTIVENESS. SMALLER VOLUMES CAN BE USED FOR REDUCED EFFECTIVENESS.

DESIGN CRITERIA: FILTER FABRIC PROTECTION SHALL BE DESIGNED AND MAINTAINED IN A MANNER SIMILAR TO SILT FENCE. MAXIMUM DEPTH OF FLOW SHALL BE EIGHT (8) INCHES OR LESS DEPENDING ON VEHICULAR AND PEDESTRIAN TRAFFIC, POSITIVE DRAINAGE IS ON LESS DEPENDING ON VEHICULAR AND PEDESTRIAN I RAPHIC, POSITIVE DRAINAGE IS CRITICAL IN THE DESIGN OF INLET PROTECTION. IF OVERFLOW IS NOT PROVIDED FOR AT THE INLET, FLOWS WHICH EXCEED THE CAPACITY OF THE INLET PROTECTION SYSTEM SHALL BE ROUTED THROUGH ESTABLISHED SWALES, STREETS OR OTHER WATERCOURSES TO MINIMIZE DAMAGE DUE TO PONDING AND TO PROVIDE FOR PUBLIC SAFETY.

LIMITATIONS: PONDING WILL OCCUR AT THE INLET WITH POSSIBLE FLOODING AS A RESULT, INLET PROTECTION IS ONLY VIABLE AT LOW POINT INLETS, INLETS WHICH ARE ON A RESULT INLET PROTECTION IS ONLY WASCE AT LOW POINT TIME IS, INLETS WHILL ARE USED. SLOPE CANNOT BE EFFECTIVELY PROTECTED BECAUSE STORMWATER WILL BYPASS THE INLET AND CONTINUE DOWNSTREAM, CAUSING AN OVERLOAD CONDITION AT THE INLETS.

MAINTENANCE REQUIREMENTS: INSPECTIONS SHOULD BE MADE ON A WEEKLY BASIS, ESPECIALLY AFTER LARGEPO.5 INCHES STORM EVENTS. WHEN SIT FENCE IS USED AND THE FABRIC BECOMES CLOGGED, IT SHOULD BE CLEANED OR IF NECESSARY, REPLACED. THE FABRIC BECOMES CLOGGED, IT SHOULD BE CLEARED ON IT RECESSARY, REPLACED ALSO, SEDMENT SHOULD BE REMOVED WHEN IT RECLEES APPROXIMATELY ONE-HALF THE HEIGHT OF THE FENCE. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN THE VOLUME OF THE BASIN IS REDUCED BY 50%



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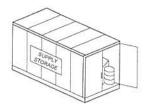
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CANAL DREDGING NO. 39PARA3401-2 CPS 903-01: STORM WATER POLLUTION PREVENTION PLAN (4 PARISH WIDE DRAINAGE PROJECT JOHNSON CANAL PUMPING STATION INFLUENT C POINTE COUPEE PARISH/OCD/DRU PROJECT N



January, 2019



DESCRIPTION: PREVENT OR REDUCE THE DISCHARGE OR POLLUTANTS TO STORM WATER FROM MATERIAL DELIVERY AND STORAGE BY MINIMIZING THE STORAGE OF HAZARDOUS MATERIALS ON-SITE, STORING MATERIALS IN A DESIGNATED AREA, INSTALLING SECONDARY MATERIALS ON-SITE, STORING MATERIALS IN A DESIGNATED AREA, INSTALLING SELUNDARY CONTAINENT, CONDUCTING REGULAR INSPECTION, TRAINING EMPLOYEES AND SUBCONTRACTORS. THIS BEST MANAGEMENT PRACTICE COVERS ONLY MATERIAL DELIVERY AND STORAGE. FOR INFORMATION ON WASTES, SEE THE WASTE MANAGEMENT BMPS

APPLICATIONS: THE FOLLOWING MATERIALS ARE COMMONLY STORED ON CONSTRUCTION SITES: PESTICIDES AND HERBICIDES, FERTILIZERS, AND DETERGENTS. PETROLEUM PRODUCTS SUCH AS FUEL, OIL, AND GREASE

OTHER HAZARDOUS CHEMICALS SUCH AS ACIDS, LIME, GLUES, PAINTS, SOLVENTS, AND CURING COMPOUNDS. STORAGE OF THESE MATERIALS ON-SITE CAN POSE THE FOLLOWING RISKS: STORM WATER CONTAMINATION, INJURY TO WORKERS OR VISITORS GROUNDWATER CONTAMINATION. SOIL CONTAMINATION

DESIGN CRITERIA: DESIGNATE AN AREA OF THE CONSTRUCTION SITE FOR MATERIAL

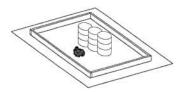
DELIVERY AND STORAGE.
PLACE NEAR THE CONSTRUCTION ENTRANCE, AWAY FROM WATERWAYS, AVOID TRANSPORT POGE REAR THE CONSTRUCTION ENTRANCE, AWAI FROM WATERWAYS AVOID TRANSPORT
MEAR DRAINAGE PATHS OR WATERWAYS SURROUND WITH EARTH BERMS. STORAGE OF
REACTIVE, IGNITIBLE, OR FLAMMABLE LIQUIDS MUST COMPLY WITH THE LOCAL FIRE CODES AND LOCAL OFFICE OF EMERGENCY MANAGEMENT REGULATIONS. CONTACT LOCAL FIRE AND LOCAL OFFICE OF EMERGENCY MARAGEMENT REGULATIONS, CONTROL LOCAL FIRE CHEROPFICIAL TO, REVIEW SITE MATERIALS, QUANTITIES, AND PROPOSED STORAGE AREA TO DETERMINE SPECIFIC REQUIREMENTS, SEE THE FLAMMABLE AND COMBUSTIBLE LIQUID CODE NFPA30. KEEP AN ACCURATE, UP-TO-DATE INVENTORY IN YOUR SWPPP OF THE MATERIALS NEPAG REEP AS ACCORDED, VETTO-DATE INVENTOR TO IT OF UNITS STORE ONLY THE AMOUNT YOU NEED, FOR ONLY AS LONG AS YOU NEED, FOR SHEW HAZARDOUS MATERIALS. ON-SITE AS POSSIBLE. HANDLE HAZARDOUS MATERIALS AS INFREQUENTLY AS POSSIBLE. DESIGNATE A SECURE MATERIAL STORAGE AREA AWAY FROM DRAINAGE COURSES AND NEAR THE SITE ENTRANCE. WHENEVER POSSIBLE, STORE MATERIALS IN A COVERED AREA WITH SECONDARY CONTAINMENT SUCH AS AN EARTHEN DIKE, HORSE TROUGH, OR EVEN KID'S SECONDARY CONTAMMENT SUCH AS AN EARTHEN DIRE, HURSE I MOUJEM, OH EVEN KIUS WADING POOL FOR NON-REACTIVE MATERIALS SUCH AS DETERGENTS, OIL GREASE AND PAINTS. SMALL AMOUNTS OF MATERIAL MAY BE SECONDARILY CONTAINED IN "BUSBOY" TRAYS OR CONCRETE MIXING TRAYS, DO NOT STORE CHEMICALS, DRUMS OR BAGGED MATERIALS DIRECTLY ON THE GROUND PLACE THESE ITEMS IN SECONDARY CONTAINMENT. IF DROWS
MUST BE KEPT UNCOVERED, STORE THEM AT A SLIGHT ANGLE TO REDUCE PONDING OR
RAINWATER ON THE LIDS AND TO REDUCE CORROSION. TRY TO KEEP CHEMICALS IN

THEIR ORIGINAL CONTAINERS, AND KEEP THEM WELL LABELED. TRAIN YOUR EMPLOYEES AND SUBCONTRACTORS EMPLOYEES TRAINED IN EMERGENCY SPILL CLEANUP PROCEDURES SHOULD BE PRESENT WHEN DANGEROUS MATERIALS OR LIQUID CHEMICALS ARE UNLOADED.

LIMITATIONS: STORAGE SHEDS OFTEN MUST MEET BUILDING AND FIRE CODE

MAINTENANCE REQUIREMENTS: KEEP THE DESIGNATED STORAGE AREA CLEAN AND WELL ORGANIZED. CONDUCT ROUTINE WEEKLY INSPECTIONS AND CHECK FOR EXTERNAL CORROSION OF MATERIAL CONTAINERS. KEEP AN AMPLE SUPPLY OF SPILL CLEANUF MATERIALS NEAR THE STORAGE AREA.





DESCRIPTION: PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM LEAKS AND SPILLS PREDUCING THE CHANCE FOR SPILLS, PROPERLY DISPOSING OF SPILL MATERIALS, AND TRAINING EMPLOYEES. THIS BEST MANAGEMENT PRACTICE COVERS ONLY SPILL PREVENTION AND CONTROL HOWEVER, MATERIAL DELIVERY AND STORAGE USE, ALSO CONTRIN USEFUL INFORMATION, PARTICULARLY ON SPILL PREVENTION. FOR INFORMATION ON WASTES, SEE THE WASTE MANAGEMENT

APPLICATIONS: THE FOLLOWING STEPS WILL HELP REDUCE THE STORM WATER IMPACTS OF LEAKS AND

GENERAL MEASURES: HAZARDOUS MATERIALS AND WASTES SHOULD BE STORED IN COVERED CONTAINERS AND PROTECTED FROM VANDALISM, PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE. TRAIN EMPLOYEES IN SPILL PREVENTION AND CLEANUP

CLEANUP: CLEAN UP LEAKS AND SPILLS IMMEDIATELY. ON PAVED SURFACES, CLEAN UP SPILLS WITH AS CLEANUP: CLEAN UP LEAKS AND SPILLS IMMEDIATELY. ON PAVED SURFACES, CLEAN UP SPILLS WITH AS LITTLE WATER AS POSSIBLE, USE A RAGE FOR SMALL SPILLS, LARGE MOP FOR GENERAL CLEANUP, AND ABSORBENT MATERIAL FOR LARGER SPILLS IF THE SPILLED MATERIAL IS HAZARDOUS, THEN THE USED CLEANUP MATERIALS ARE ALSO HAZARDOUS AND MUST BE SENT TO EITHER A CERTIFIED LAUNDRY (RAGS) OR DISPOSED OF AS HAZARDOUS WASTE, NEVER POUR DOWN OR BURY DRY MATERIALS SPILLS, SWEEP UP OR EXCAVATE THE MATERIAL AND DISPOSE OF PROPERLY, SEE THE WASTE MANAGEMENT BMPS.

REPORTING: IMMEDIATELY REPORT SPILLS TO THE LOCAL OFFICE OF EMERGENCY MANAGEMENT. FEDERAL REGULATIONS REQUIRE THAT ANY OIL SPILL INTO A BODY OF WATER OR ONTO AN ADJOINING SHORELINE BE REPORTED TO THE NATIONAL RESPONSE CENTER (NRC) AT 800-424-8802 (24HOUR).

VEHICLE AND EQUIPMENT MAINTENANCE: IF MAINTENANCE MUST OCCUR ON-SITE, USE A DESIGNATED AREA, LOCATED AWAY FROM DRAINAGE COURSES, PREVENT THE RUNON OF STORM WATER AND THE RUN OFF OF SPILLS. REGULARLY INSPECT ON-SITE VEHICLES AND EQUIPMENT FOR LEAKS, AND AND THE RUN OF PO ESPILS. REQUARY INFORM INVARIANCE COUNTSES, PREVENT THE RUNCH OF STORM WATER AND THE RUN OF FO ESPILS. REQUARENT YNSPECT ON SITE VEHICLES AND EQUIPMENT FOR LEAKS, AND REPAIR IMMEDIATELY. CHECK INCOMING VEHICLES AND EQUIPMENT HOLD LIVERY TRUCKS, AND REPAIR IMMEDIATELY. CHECK INCOMING VEHICLES AND EQUIPMENT OF ALLOW LEAKING VEHICLES OR EQUIPMENT ON SITE. ALLWAYS USE SECONDARY CONTAINMENT, SUCH AS O DRAIN PAN OR DEEP CLOTH, TO CATCH SPILLS OR LEAKS WHEN REMOVING OR CHANGING FLUIDS. PLACE DRIP PANS OR ABSORBENT MATERIALS UNDER EQUIPMENT WHEN NOT IN USE. USE ABSORBERT MATERIALS ON SMALL SPILLS RETAILS THAN HOSING DOWN OR BURYING THE SPILL REMOVE THE ABSORBENT MATERIALS ON SMALL SPILLS RETAIL THAN HOSING DOWN OR BURYING THE SPILL REMOVE THE ABSORBENT MATERIALS ON SMALL SPILLS RETAIL THAN HOSING DOWN OR BURYING THE SPILL REMOVE THE ABSORBENT MATERIALS ON SMALL SPILLS REATHER THAN HOSING DOWN OR BURYING THE SPILL REMOVE THE ABSORBENT MATERIALS ON SMALL SPILLS REATHER THAN HOSING DOWN OR BURYING THE SPILL REMOVE THE ABSORBENT MATERIALS. PROMPTLY AND DISPOSE OF IN TRASH CANS OR DUMPSTERS CAN LEAK OIL AND CONTAINERS LYING AROUND, OIL FILTERS TO SOR DUMPSTERS CAN LEAK OIL AND CONTAINATE STORE WASTE OR REFORCED SPOSAL OIL FILTERS CAN ALSO BE RECYCLED ASK YOUR OIL SUPPLIER OR RECYCLER ABOUT RECYCLING OIL FILTERS CAN ALSO BE RECYCLED ASK YOUR OIL SUPPLIER OR RECYCLER ABOUT RECYCLING OIL FILTERS TORE CRACKED BATTERIES IN A NON-LEAKING SECONDARY CONTAINER. DO THIS WITH ALL CRACKED BATTERIES EVEN IF YOU THINK ALL THE ACID HAS DRAINED OUT. IF YOU DOOD ABATTER, TREAT IT AS IF IT IS CRACKED PUT INTO THE CONTAINMENT AREA UNITLY OU ARE SURE IT IS A BATTER, TREAT IT AS IF IT IS CRACKED PUT INTO THE CONTAINMENT AREA UNTIL YOU ARE SURE IT IS

VEHICLE AND EQUIPMENT FUELING: IF FUEUNG MUST OCCUR ON SITE, USE DESIGNATED AREAS, LOCATED AWAY FROM DRAINAGE COURSES, TO PREVENT THE RUNON OF STORM WATER AND THE RUNOFF

DISCOURAGE "TOPPING-OFF" OF FUEL TANKS, ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN, WHEN FUELING TO CATCH SPILLS/LEAKS.

LIMITATIONS: IF NECESSARY, USE A PRIVATE SPILL CLEANUP COMPANY.

MAINTENANCE REQUIREMENTS: KEEP AMPLE SUPPLIES OR SPILL CONTROL AND CLEANUP MATERIALS MAINT TERRANGE REQUIREMENTS I REEF AWARES SUFFICIES OF SPILL CONTINUE AND CLEANUP MA ON-SITE, NEAR STORAGE, UNLOADING, AND MAINTENANCE AREAS, UPDATE YOUR SPILL CLEANUP MATERIALS AS CHANGES OCCUR IN THE TYPES OF CHEMICALS ON-SITE.



PARISH WIDE DRAINAGE PROJECT 2 JOHNSON CANAL, PUMPING STATION INFLUENT CANAL DREDGING POINTE COUPEE PARISH/OCD/DRU PROJECT NO. 39PARA3401-2 STORM WATER POLLUTION PREVENTION PLAN (5 OF 11) CPS 903-01:

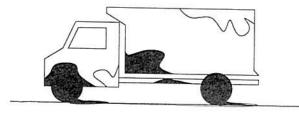


January, 2019



13-183

January, 2019 13/25



DESCRIPTION: PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM VEHICLE AND EQUIPMENT CLEANING BY USING OFF-SITE FACILITIES. WASHING IN DESIGNATED AREAS ONLY, PREVENTS DISCHARGES TO THE STORM DRAIN BY INFILTRATING OR RECYCLING THE WASH WATER AND TRAINING EMPLOYEES AND SUBCONTRACTORS

APPLICATIONS: WASHING VEHICLES AND EQUIPMENT OUTDOORS OR IN AREAS WHERE WASH WATER.

DESIGN CRITERIA: USE OFF-SITE COMMERCIAL WASHING BUSINESSES AS MUCH AS POSSIBLE. FOR OPERATIONS INVOLVING A LARGE NUMBER OF VEHICLES OR PIECES OF EQUIPMENT, CONSIDER CONDUCTING THIS WORK AT AN OFF-SITE COMMERCIAL BUSINESS EQUIPPED TO HANDLE AND DISPOSE OF THE WASH WATERS PROPERLY, PERFORMING THIS WORK OFF-SITE CAN ALSO BE ECONOMICAL BY ELIMINATING THE NEED FOR A SEPARATE WASHING OPERATION AT YOUR SITE. IF WASHING MUST OCCUR ON-SITE, USE DESIGNATED, BERMED WASH AREAS TO PREVENT WASH WATER CONTACT WITH STORM WATER, CREEKS, RIVERS AND OTHER WATER BODIES. USE AS LITTLE WATER AS POSSIBLE TO AVOID HAVING TO INSTALL EROSION AND SEDIMENT CONTROLS FOR THE WASH AREA. USE PHOSPHATE-FREE, BIODEGRADABLE SOAPS. EDUCATE EMPLOYEES AND SUBCONTRACTORS ON POLLUTION PREVENTION MEASURES. DO NOT PERMIT STEAM CLEANING ON-SITE. STEAM CLEANING CAN GENERATE SIGNIFICANT POLLUTANT CONCENTRATIONS LEADING TO POTENTIAL STORM WATER AND GROUNDWATER CONTAMINATION. IN CONSTRUCTION AREAS WHERE TRUCK TIRES COLLECT MUD, PROVIDE A CLEANING AREAS FOR REMOVING SOIL BEFORE TRUCK LEAVES SITE. TRUCK TIRES CLEANING AREA SHOULD NOT BE DIRECTLY ADJACENT TO DRAINAGE CONVEYANCES. A VEGETATED BUFFER AREA SHOULD BE LOCATED DOWNSTREAM OF THE TIRE WASH. FOR HEAVY USE OF TIRE WASH AREA, SILT FENCING, OR SEDIMENT TRAPPING MAY BE NECESSARY.

LIMITATIONS: SENDING VEHICLES/EQUIPMENT OFF-SITE SHOULD BE DONE IN CONJUNCTION WITH (STABILIZED CONSTRUCTION ENTRANCE).

MAINTENANCE REQUIREMENTS: MINIMAL





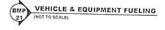
DESCRIPTION: PREVENT FUEL SPILLS AND LEAKS, AND REDUCE THEIR IMPACTS TO STORM WATER BY USING OFF-SITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY, ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, TRAINING EMPLOYEES AND SUBCONTRACTORS.

APPLICATIONS: FUELING VEHICLES AND EQUIPMENT OUTDOORS OR IN AREAS WHERE WASH WATER FLOWS ONTO THE GROUND CAN POLLUTE STORM WATER.

DESIGN CRITERIA: USE OF OFF-SITE FUELING STATIONS AS MUCH AS POSSIBLE. IF YOU FUEL A LARGE NUMBER OF VEHICLES OR PIECES OF EQUIPMENT, CONSIDER USING AN OFF-SITE FUELING STATION EQUIPPED TO HANDLE FUEL AND SPILLS PROPERLY. PERFORMING THIS WORK OFF-SITE CAN ALSO BE ECONOMICAL BY ELIMINATING THE NEED FOR A SEPARATE FUELING AREA AT YOUR SITE. IF FUELING MUST OCCUR ON-SITE, USE DESIGNATED AREAS, LOCATED AWAY FROM DRAINAGE COURSE TO PREVENT THE RUN-ON OF STORM WATER AND THE RUNOFF OF SPILLS, DISCOURAGE "TOPPING-OFF" OF FUEL TANKS. ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN, WHEN FUELING TO CATCH SPILLS/LEAKS. PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE. USE ABSORBENT MATERIALS ON SMALL SPILLS RATHER THAN HOSING DOWN OR BURYING THE SPILL. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. CARRY OUT ALL FEDERAL AND STATE REQUIREMENTS REGARDING STATIONARY ABOVE GROUND STORAGE TANKS. DO NOT USE MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE: RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. WITH THE EXCEPTION OF TRACKED EQUIPMENT SUCH AS BULLDOZERS AND PERHAPS SMALL FORKLIFTS, MOST VEHICLES SHOULD BE ABLE TO TRAVEL TO A DESIGNATED AREA WITH LITTLE LOST TIME. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES.

LIMITATIONS: SENDING VEHICLES/EQUIPMENT OFF-SITE SHOULD BE DONE IN CONJUNCTION WITH STABILIZED CONSTRUCTION ENTRANCE BMP.

MAINTENANCE REQUIREMENTS: KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ON-SITE. INSPECT FUELING AREAS AND STORAGE TANKS ON A REGULAR SCHEDULE.



PRIMARY USE: THESE PRACTICES SHOULD BE A PART OF ALL CONSTRUCTION PRACTICES BY LIMITING THE TRASH AND DEBRIS ON SITE, STORM WATER QUALITY IS IMPROVED ALONG WITH REDUCED CLEAN UP REQUIREMENTS AT THE COMPLETION OF THE PROJECT.

APPLICATIONS: THE SOLID WASTE MANAGEMENT PRACTICE FOR CONSTRUCTION SITES BASED ON PROPER STORAGE AND DISPOSAL PRACTICES BY CONSTRUCTION WORKERS AND SUPERVISORS. KEY ELEMENTS PRACTICES BY COST RUG HON WORKERS AND SUPERVISORS. KET ELEMENTS OF THE PROGRAM ARE EDUCATION AND MODIFICATION OF IMPROPER DISPOSAL HABITS. COOPERATION AND VIGILANCE IS REQUIRED ON THE PART OF SUPERVISORS AND WORKERS TO ENSURE THAT THE RECOMMENDATIONS AND PROCEDURES ARE FOLLOWED. FOLLOWING ARE LISTS DESCRIBING THE TARGETED MATERIALS AND RECOMMENDED PROCEDURES:

TARGETED SOLID WASTE MATERIALS: PAPER AND CARDBOARD TARGETED SOLID WASTE MATERIALS: PAPER AND CARBOARD CONTAINERS, PLASTIC PACKAGING, STYROFOAM PACKING AND FORMS, INSULATION MATERIALS (NON-HAZARDOUS), WOOD PALLETS, WOOD CUTTINGS, PIPE AND ELECTRICAL CUTTINGS, CONCRETE, BRICK, AND MORTAR WASTE, SHINGLE CUTTINGS AND WASTE, ROOFING TAR, STEEL (CUTTINGS, NAIL, RUST, RESIDUE), GYPSUM BOARD CUTTINGS AND WASTE, SHEATHING CUTTINGS AND WASTE, SHEATHING CUTTINGS AND WASTE, FOOD WASTE, AND DEMOUTION WASTE, MISCELLANEOUS CUTTING AND WASTE, FOOD WASTE, AND DEMOUTION WASTE.

STORAGE PROCEDURES: WHEREVER POSSIBLE, MINIMIZE PRODUCTION OF STORAGE PROCEDURES: WHEREVER POSSIBLE, MINIMIZE PRODUCTION OF SOLID WASTE MATERIALS. DESIGNATE A FOREWAM OR SUPERVISOR TO OVERSEE AND ENFORCE PROPER SOLID WASTE PROCEDURES. INSTRUCT CONSTRUCTION WORKERS IN PROPER SOLID WASTE PROCEDURES. SEGREGATE POTENTIALLY IN PROPER SOLID WASTE FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS. KEEP SOLID WASTE MATERIALS UNDER COVER IN EITHER A CLOSED DUMPSTER OR OTHER ENCLOSED TRASH CONTAINER THAT WHITE COVERT MATERIALS AND AND DEBRIS AND AND AND AND AND THE PROPERTY WATER SAMAY. LIMITS CONTACT WITH RAIN AND RUNOFF, STORE WASTE MATERIALS AWAY FROM DRAINAGE DITCHES, SWALES AND CATCH BASINS. DO NOT ALLOW TRASH CONTAINERS TO OVERFLOW. DO NOT ALLOW WASTE MATERIALS TO ACCUMULATE ON THE GROUND, PROHIBIT LITTERING BY WORKERS AND VISITORS, POLICE SITE DAILY FOR LITTER AND DEBRIS, ENFORCE SOLID WASTE HANDLING AND STORAGE PROCEDURES

DISPOSAL PROCEDURES: IF FEASIBLE, SEGREGATE RECYCLED WASTES FROM NON-RECYCLABLE WASTE MATERIALS AND DISPOSE OF PROPERLY. GENERAL CONSTRUCTION DEBRIS MAY BE HAULED TO A LICENSED CONSTRUCTION DEBRIS LANDFILL (TYPICALLY LESS EXPENSIVE THAN A SANITARY LANDFILL). USE WASTE FACILITIES APPROVED BY LOCAL JURISDICTION. RUNOFF WHICH COMES INTO CONTACT WITH UNPROTECTED WASTE SHALL BE DIRECTED INTO STRUCTURAL TREATMENT SUCH AS A SILT

EDUCATION: EDUCATE ALL WORKERS ON SOLID WASTE STORAGE AND DISPOSAL PROCEDURES. INSTRUCT WORKERS IN IDENTIFICATION OF SOLID WASTE AND HAZARDOUS WASTE. HAVE REGULAR MEETINGS TO DISCUSS AND REINFORCE DISPOSAL PROCEDURES (INCORPORATE IN REGULAR SAFETY SEMINARS). CLEARLY MARK ON ALL SOLID WASTE CONTAINERS WHICH MATERIALS ARE ACCEPTABLE

QUALITY CONTROL: FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHALL MONITOR ON-SITE SOLID WASTE STORAGE AND DISPOSAL PROCEDURES. DISCIPLINE WORKERS WHO REPEATEDLY VIOLATE PROCEDURES.

REQUIREMENTS: JOB SITE WASTE HANDLING AND DISPOSAL EDUCATION AND AWARENESS PROGRAM. COMMITMENT BY MANAGEMENT TO IMPLEMENT AND ENFORCE SOLID WASTE MANAGEMENT PROGRAM. COMPLIANCE BY WORKERS SUFFICIENT AND APPROPRIATE WASTE STORAGE CONTAINERS, TIMELY REMOVAL OF STORED SOLID WASTE MATERIALS, POSSIBLE MODEST COST IMPACT FOR ADDITIONAL WASTE STORAGE CONTAINERS, SMALL COST IMPACT. FOR TRAINING AND MONITORING. MINIMAL OVERALL COST IMPACT.

LIMITATIONS: ONLY ADDRESSES NON-HAZARDOUS SOLID WASTE ONE PART OF A COMPREHENSIVE CONSTRUCTION SITE MANAGEMENT.



DESCRIPTION: THE HAZARDOUS WASTE MANAGEMENT BMP ADDRESSES THE PROBLEM OF STORM WATER POLLUTED WITH HAZARDOUS WASTE THROUGH PROBLEM OF STORM WATER POLICITED WITH PACAGOODS WASTE THROUGH
SPILLS OR OTHER FORMS OF CONTACT. THE OBJECTIVE OF THE MANAGEMENT
PROGRAM IS TO MINIMIZE THE POTENTIAL OF STORMWATER CONTAMINATION FROM
COMMON CONSTRUCTION SITE HAZARDOUS WASTES THROUGH APPROPRIATE COMMON CONSTRUCTION SHE PROGRESSOS VASTES HANDON AFTER TRAINING RECOGNITION, HANDLING, STORAGE AND DISPOSAL PRACTICES. IT IS NOT THE INTENT OF THIS MANAGEMENT PROGRAM TO SUPERSEDE OR REPLACE NORMAL SITE ASSESSMENT AND REMEDIATION PROCEDURES. SIGNIFICANT SPILLS AND/OR SITE A-SOSSAMENT AND REMEMBATION PROCEDURES, SIGNIFICANT SPILLS AND OF CONTAMINATION WARRANT IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS SUSPECTED JOB-SITE CONTAMINATION SHOULD BE IMMEDIATELY REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE ACTIONS TAKEN. THE GENERAL PERMIT REQUIRES REPORTING OF SIGNIFICANT SPILLS TO THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802.

PRIMARY USE: THESE MANAGEMENT PRACTICES ALONG WITH APPLICABLE OSHA AND EPA GUIDELINES SHOULD BE INCORPORATED AT ALL CONSTRUCTION SITES WHICH USE OR GENERATE HAZARDOUS WASTES, MANY WASTES SUCH AS FUEL, OIL, GREASE, FERTILIZER AND PESTICIDE ARE PRESENT AT MOST CONSTRUCTION

INSTALLATION, APPLICATION AND DISPOSAL CRITERIA: THE HAZARDOUS WASTE MANAGEMENT TECHNIQUES PRESENTED HERE ARE BASED ON PROPER RECOGNITION, HANDLING, AND DISPOSAL PRACTICES BY CONSTRUCTION WORKERS AND SUPERVISORS. KEY ELEMENTS OF THE MANAGEMENT PROGRAM ARE EDUCATION, PROPER DISPOSAL PRACTICES, AS WELL AS PROVISIONS FOR SAFE STORAGE AND DISPOSAL. FOLLOWING ARE LISTS DESCRIBING THE TARGETED MATERIALS AND RECOMMENDED PROCEDURES.

TARGETED HAZARDOUS WASTE MATERIALS: PAINTS, SOLVENTS, STAINS, WOOD PRESERVATIVES, CUTTING OILS, GREASES, ROOFING TAR, PESTICIDES, FUELS & LUBE OILS, AND LEAD BASED PAINTS (DEMOLITION

STORAGE PROCEDURES: WHEREVER POSSIBLE, MINIMIZE USE OF HAZARDOUS MATERIALS. MINIMIZE GENERATION OF HAZARDOUS WASTES ON THE JOB-SITE. MATERIALS. MINIMIZE GENERATION OF HAZARDOUS WASTES ON THE JOB-SITE.
SEGREGATE POTENTIALLY HAZARDOUS WASTE FROM NON-HAZARDOUS
CONSTRUCTION SITE DEBRIS. DESIGNATE A FOREMAN OR SUPERVISOR TO
OVERSEE HAZARDOUS MATERIALS HANDLING PROCEDURES KEEP LIQUID OR
SEMI-LIQUID HAZARDOUS WASTE IN APPROPRIATE CONTAINERS (CLOSED DRUMS
OR SIMILAR) AND UNDER COVER. STORE WASTE MATERIALS AWAY FROM DRAINAGE
DITCHES, SWALES, AND CATCH BASINS. USE CONTAINENT BERNS IN FUELING AND
MAINTENANCE AREAS AND WHERE THE POTENTIAL FOR SPILLS IS HIGH ENSURE
THAT AREOLUTE HAZARDOUS WASTES ATTORAGE VALUES IS AVAILABLE OF THE PROPERTY OF MAINTENANCE AREAS AND WORKER THE FORAGE VOLUME IS AVAILABLE. ENSURE THAT ADSCUARTE HAZARDOUS WASTE STORAGE VOLUME IS AVAILABLE. ENSURE THAT HAZARDOUS WASTE COLLECTION CONTAINERS ARE CONVENIENTLY LOCATED. DO NOT ALLOW POTENTIALLY HAZARDOUS WASTE MATERIALS TO ACCUMULATE ON THE GROUND. ENFORCE HAZARDOUS WASTE HANDLING AND DISPOSAL PROCEDURES CLEARLY MARK ON ALL HAZARDOUS WASTE CONTAINERS WHICH MATERIALS ARE ACCEPTABLE FOR THE CONTAINER.

DISPOSAL PROCEDURES: REGULARLY SCHEDULE HAZARDOUS WASTE REMOVAL TO MINIMIZE ON-SITE STORAGE. USE ONLY REPUTABLE, LICENSED HAZARDOUS WASTE HAULERS

EDUCATION: INSTRUCT WORKERS IN IDENTIFICATION OF HAZARDOUS WASTE. EDUCATE WORKERS OF POTENTIAL DANGERS TO HUMANS AND THE ENVIRONMENT FROM HAZARDOUS WASTES. INSTRUCT WORKERS ON SAFETY PROCEDURES FOR PROM HAZARDOUS WAS IES. INSTRUCT WORKERS ON SAFEIT PROCEDURES FOR COMMON CONSTRUCTION SITE HAZARDOUS WAS IES. EDUCATE ALL WORKERS ON HAZARDOUS WAS IES STORAGE AND DISPOSAL PROCEDURES. HAVE REGULAR MEETINGS TO DISCUSS AND REINFORCE IDENTIFICATION, HAVIOLING AND DISPOSAL PROCEDURES (INCORPORATE IN REGULAR SAFETY SEMINARS). ESTABLISH A CONTINUING EDUCATION PROGRAM TO INDOCTRINATE NEW EMPLOYEES.

QUALITY ASSURANCE: FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHALL MONITOR ON-SITE HAZARDOUS WASTE STORAGE AND DISPOSAL PROCEDURES EDUCATE AND IF NECESSARY, DISCIPLINE WORKERS WHO VIOLATE PROCEDURES ENSURE THAT THE HAZARDOUS WASTE DISPOSAL CONTRACTOR IS REPUTABLE AND LICENSED

REQUIREMENTS: JOB-SITE HAZARDOUS WASTE HANDLING AND DISPOSAL EDUCATION AND AWARENESS PROGRAM. COMMITMENT BY MANAGEMENT TO IMPLEMENT HAZARDOUS WASTE MANAGEMENT PRACTICES. COMPLIANCE BY WORKERS SUFFICIENT AND APPROPRIATE HAZARDOUS WASTE STORAGE CONTAINERS. TIMELY REMOVAL OF STORED HAZARDOUS WASTE MATERIALS

COSTS: POSSIBLE MODEST COST IMPACT FOR ADDITIONAL HAZARDOUS STORAGE COST IMPACT FOR HAZARDOUS WASTE COLLECTION AND DISPOSAL BY LICENSED HAULER ACTUAL COST DEPENDS ON TYPE OF MATERIAL



DESCRIPTION: CONCRETE WASTE AT CONSTRUCTION SITES COMES IN TWO FORMS: 1) EXCESS FRESH CONCRETE MIX INCLUDING TRUCK AND EQUIPMENT WASHING, AND 2) CONCRETE DUST AND CONCRETE DEBRIS RESULTING FROM DEMOLITION, BOTH FORMS HAVE THE POTENTIAL TO IMPACT WATER QUALITY THROUGH STORM WATER RUNOFF CONTACT WITH THE WASTE

PRIMARY USE: CONCRETE WASTE IS PRESENT AT MOST CONSTRUCTION SITES. THIS BMP SHOULD BE UTILIZED AT SITES IN WHICH CONCRETE WASTE IS

APPLICATIONS: A NUMBER OF WATER QUALITY PARAMETERS CAN BE AFFECTED BY INTRODUCTION OF CONCRETE ESPECIALLY FRESH CONCRETE. CONCRETE AFFECTS THE PH OF RUNOFF, CAUSING SIGNIFICANT CHEMICAL CHANGES IN WATER BODIES AND HARMING AQUATIC LIFE. SUSPENDED SOLIOS IN THE FORM OF BOTH CEMENT AND AGGREGATE DUST ARE ALSO GENERATED FROM BOTH FRESH AND DEMOLISHED CONCRETE WASTE.

CURRENT UNACCEPTABLE WASTE CONCRETE DISPOSAL PRACTICES: DUMPING IN VACANT AREAS ON THE JOB-SITE. ILLICIT DUMPING OFF-JOBSITE. DUMPING INTO DITCHES OR DRAINAGE FACILITIES.

RECOMMENDED DISPOSAL PRACTICES: AVOID UNACCEPTABLE DISPOSAL PRACTICES LISTED ABOVE DEVELOP PRE-DETERMINED, SAFE CONCRETE DISPOSAL AREAS, PROVIDE A WASHOUT AREA WITH THE MINIMUM OF 6 CUBIC FEET OF CONTAINMENT AREA VOLUME FOR EVERY 10 CUBIC YARDS OF CONCRETE POURED. NEVER DUMP WASTE CONCRETE ILLICITLY OR WITHOUT PROPERTY OWNERS KNOWLEDGE AND CONSENT. TREAT RUNOFF FROM STORAGE AREAS THROUGH THE USE OF STRUCTURAL CONTROLS AS REQUIRED.

EDUCATION: DRIVERS AND EQUIPMENT OPERATORS SHOULD BE INSTRUCTED ON PROPER DISPOSAL AND EQUIPMENT WASHING PRACTICES (SEE ABOVE). SUPERVISORS MUST BE MADE AWARE OF THE POTENTIAL ENVIRONMENTAL CONSEQUENCES OF IMPROPERLY HANDLED CONCRETE WASTE.

ENFORCEMENT. THE CONSTRUCTION SITE MANGER OR FOREMAN MUST ENSURE ENFORCEMENT: THE CORSTRUCTION STIE MANUER OF POPERAM MUST ENSURE THAT EMPLOYEES AND PRE-MIX COMPANIES FOLLOW PROPER PROCEDURES FOR CONCRETE DISPOSAL AND EQUIPMENT WASHING. EMPLOYEES VIOLATING DISPOSAL OR EQUIPMENT CLEANING DIRECTIVES MUST BE RE-EDUCATED OR DISCIPLINED IF NECESSARY

DEMOLITION PRACTICES: MONITOR WEATHER AND WIND DIRECTION TO ENSURE CONCRETE DUST IS NOT ENTERING DRAINAGE STRUCTURES AND SURFACE WATERS. WHERE APPROPRIATE, CONSTRUCT SEDIMENT TRAPS OR OTHER TYPES OF SEDIMENT DETENTION DEVICES DOWNSTREAM OF DEMOLITION

REQUIREMENTS: USE A PRE-DETERMINED DISPOSAL SITE(S) APPROVED BY LADEG FOR WASTE CONCRETE (SEE BMP 22 SOLID WASTE MANAGEMENT).
INFORM PROGRAM MANAGER OF SELECTED DISPOSAL SITE(S), PROHIBIT
DUMPING WASTE CONCRETE ANYWHERE BUT PRE-DETERMINED AREAS. ASSIGN DOMERING WAS IE CURIONE IE ANTWHERE BUT PRE-DETERMINED ANEAS, ASSIGN PRE-DETERMINED TRUCK AND EQUIPMENT WASHING AREAS, EDUCATE DRIVERS AND OPERATORS ON PROPER DISPOSAL AND EQUIPMENT CLEANING PROCEDURES

COSTS: MINIMAL COST IMPACT FOR TRAINING AND MONITORING, CONCRETE DISPOSAL COST DEPENDS ON AVAILABILITY AND DISTANCE TO SUITABLE DISPOSAL AREAS, ADDITIONAL COSTS INVOLVED IN EQUIPMENT WASHING COULD.

LIMITATIONS: THIS CONCRETE WASTE MANAGEMENT PROGRAM IS ONE PART OF A COMPREHENSIVE CONSTRUCTION SITE WASTE MANAGEMENT PROGRAM.



1111 HOSPITAL ROAD, SAITE D NEW ROADS, LA 70760 OFFICE, (225) 387-2167

PARISH WIDE DRAINAGE PROJECT 2 JOHNSON CANAL PUMPING STATION INFLUENT CANAL DREDGING POINTE COUPEE PARISH/OCD/DRU PROJECT NO. 39PARA3401-2 3 PO 8) STORM WATER POLLUTION PREVENTION PLAN



903-01:

CPS

13-183 January, 2019

STANDARD FOR TOPSOILING:

TOPSOILING: DEFINITIONS: TOPSOILING IS THE STRIPPING, STORING, AND SPREADING OF FERTILE TOPSOIL OVER DISTURBED AREAS. PURPOSE: TOPSOILING WILL PROVIDE A MORE SUITABLE SOIL MEDIUM IF THE EXISTING OR CONSTRUCTED SURFACE IS UNFAVORABLE FOR PLANT GROWTH. TOPSOILING WILL GREATLY INCREASE THE SUCCESS OF ESTABLISHING GOOD VEGETATION, HELP REDUCE SOIL EROSION, AND ENHANCE THE BEAUTY OF THE DEVELOPMENT. CONDITIONS WHERE PRACTICES APPLIES: TOPSOILING IS USED WHERE: THE TEXTURE AND QUALITY OF THE EXPOSED

SUBSOIL OR PARENT MATERIAL ARE NOT SUITABLE FOR PRODUCING ADEQUATE VEGETATIVE GROWTH. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS WITH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS. THE SOIL IS EXTREMELY ACIDIC OR CONTAINS MATERIAL TOXIC TO PLANT GROWTH. DESIGN CRITERIA: TOPSOIL MATERIALS: THE SITE SHOULD BE EXPLORED TO DETERMINE IF THERE IS SUFFICIENT SURFACE SOIL OF GOOD QUALITY TO JUSTIFY STRIPPING. IF ADDITIONAL OFF-SITE TOPSOIL IS NEEDED, IT SHOULD MEET THE FOLLOWING STANDARDS AS WELL: TOPSOIL SHOULD BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). TOPSOIL SHOULD BE FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCES THAT MAY BE HARMFUL TO PLANT GROWTH. ORGANIC MATTER CONTENT SHOULD NOT BE LESS THAN 0.75 PERCENT BY WEIGHT; PH RANGE SHOULD BE FROM 5.0-7.5, STRIPPING AND STOCKPILING: STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL. TOPSOIL SHOULD BE STOCKPILED SO THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND OFF-SITE SEDIMENT DAMAGE DOES NOT OCCUR. STOCKPILE SIDESLOPES SHOULD NOT EXCEED 2:1. A PERIMETER DIKE WITH AN OUTLET OR STRAW BALE BARRIERS SHOULD SURROUND THE STOCKPILES. TEMPORARY SEEDING SHOULD BE COMPLETED WITHIN 15 DAYS OF STOCKPILE FORMATION. SITE PREPARATION: WHEN TOPSOILING MAINTAIN NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSION DIKES, SEDIMENT BASINS, WATERWAYS, ETC. GRADING - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHOULD BE MAINTAINED. LIMING - WHERE THE PH OF THE SUBSOIL IS ,0 OR LESS OR THE SOIL IS COMPOSED OF HEAVY CLAYS, AGRICULTURAL LIME BE SPREAD IN ACCORDANCE WITH THE SOIL TEST ON THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED. BONDING - AFTER LIMING AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOPSOIL, THE SUBGRADE SHOULD BE LOOSENED BY DISKING AND SCARIFYING TO A DEPTH OF AT LEAST TWO INCHES TO INSURE BONDING OF THE TOPSOIL AND SUBSOIL. APPLYING TOPSOIL: TOPSOIL SHOULD BE HANDLED WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE. A UNIFORM APPLICATION OF 4 TO 6 INCHES UNSETTLED SHOULD BE MADE. NO SOD OR SEED SHOULD BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS UNTIL SUFFICIENT TIME HAS ELAPSED TO PERMIT DISSIPATION OF TOXIC MATERIALS. GENERAL NOTES: THERE ARE ADVATAGES AND DISADVANTAGES IN TOPSOILING: STRIPPING, STOCKPILING, REAPPLYING OR IMPORTING TOPSOIL MAY NOT ALWAYS BE COST-EFFECTIVE. TOPSOILING CAN DELAY SEEDING OR SODDING OPERATIONS AND INCREASE THE EXPOSURE TIME OF DENUDED AREAS, ALSO, MOST TOPSOILS CONTAIN WEED SEEDS, AND WEEDS MAY COMPETE WITH DESIRABLE SPECIES. ON THE OTHER HAND, THE ADVANTAGES OF TOPSOIL INCLUDE ITS HIGH

ORGANIC MATTER CONTENT, FRIABLE NATURE WATER-HOLDING CAPACITY, AND NUTRIENT CONTENT, WHICH MAKES IT AN EXCELLENT MEDIUM FOR GROWTH AND GREATLY REDUCES CHANCES OF FAILURE. FURTHER, PREPARING A SEEDBED IN SUBSOIL MAY BE CONSIDERED INSTEAD OF TOPSOILING, AS SOME SUBSOILS MAY PROVIDE A GOOD GROWTH MEDIUM WHICH IS GENERALLY FREE OF WEED SEEDS. IF TOPSOILING IS TO BE DONE, IT SHOULD BE DETERMINED IF AN ADEQUATE VOLUME OF TOPSOIL EXISTS ON THE SITE. THE STOCKPILE SHOULD BE LOCATED FOR PROPER NON-EROSIVE DRAINAGE AND SUCH THAT IT DOES NOT INTERFERE WITH WORK ON THE SITE. SUFFICIENT TIME SHOULD BE ALLOWED FOR SPREADING AND BONDING TOPSOIL PRIOR TO SEEDING, SODDING OR PLANTING; TOPSOIL AND SUBSOIL SHOULD BE PROPERLY BONDED. TOPSOIL SHOULD NOT BE APPLIED TO A SUBSOIL WITH CONTRASTING TEXTURE (AS A CLAY) UNLESS THE SURFACE OF THE SUBSOIL IS SCARIFIED TO PROVIDE A GOOD BOND WITH THE TOPSOIL.



OF 11) PARISH WIDE DRAINAGE PROJECT 2 N CANAL PUMPING STATION INFLUENT CANAL DREDGING COUPEE PARISH/OCD/DRU PROJECT NO. 39PARA3401-2 STORM WATER POLLUTION PREVENTION PLAN (10



903-01:

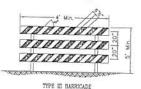
CPS

DB NO. 13-183 January, 2019

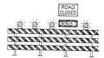
TYPE ! BARRICADE



TYPE II BARRICADE



STANDARD HARRICADES



BARRICADE CLOSING A ROAD Figure 3-2

Barricodes with stripes which begin at the upper right side and slope to the lower left side are designated as "right" (R) barricodes. Barricodes with stripes which begin of the upper left side and slope to the lower right side are de-signated as "Reft" (1) barricodes.

Markings for barricade rails shall be atternate area white stripes aloping downward in the direction traffic pass.

Where a barricode extends entirely across a roodway, stripes short slope downward in the direction toward which traffic must turn in detouring. Where both right and left turns are provided, cheron striping shot slope downward in both directions from the center of the borricode.

Barricade rolls shall be supported in a manner that will also than to be seen by motorists and provide a support motories, and a support move and

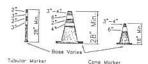
Grange and white markings shall be encopsulated lens re-flective sheeting which will display the same approximate size, shape and calor for day and night, and shall cenform to subsection 1020-102(C) of the Standard Specifications for Public Works Construction. The predominate color for other barricade components shall be white, except that unpointed galvanized metal or aluminum components may

Barricades shall be constructed at lightweight materials and have no rigid stay bracing for "A" frame designs.

TABLE 3-1 BARRICADE REQUIREMENTS

Width of Roll* 8" to 12" 6" to 12" 2' min. 2' min. 6" to 12" 4' min, Length of Rail Width of Stripes** Height of Reflectorized Rolls focing one direction of traffic

- For wood barricade.
 will be satisfactory. wood barricade, nominal lumber dimension
- ** For rails less than 3" long, 4" wide stripes



CONES Figure 3-3

Cone Design and Tubular Marker Design

Cones and tubular morkers shall have a broadened base and withstand impact without damage to themselves or to whickles. Orange shall be the predominant color on cones. They shall be kept clean. For nightline use they shall be reflectanted or equipped with splinting devices. Reflectanted or equipped with splinting devices. Reflectanted motified shall display the some approximate color day and the Standard spooffich to subsection 1020-1-2(C). The Standard Section of the Standard shall be subsected to 1020-1-2(C) and the Standard speed on minimum of 3 bands placed a minimum of 2° from the top with a maximum of 3° from the top.

Cones or tubular markers shall be set on the roadway sur-face or rigidy attached for continued use. Precautions shall be taken to assure they will not be blown over or

Barricade Application

Type: I and I benicodes shall be used where traffic is maintained through the construction area. They may be used singly or in groups to mark a specific harder or used in singly or in channelizing traffic. Type: I berricodes shall be used on high bent of the traffic of the used on high bent of the codes shall be used on high bent of the codes shall be used on high bent of the shall be shall be shall be used on high bent of the traffic one shall be used on high sort of the traffic of the traffic on the traffic of the traffic on the traffic of the traffic on the traffic of the traffic or shall be used to the traffic on the traffic of the traffic or shall be used to the traffic or shall be used t

when o road section is closed to traffic, Type III barricoses shall be erected at the points or closure. They shall send completely ourses or roadway and its shoulders or from curb to each. To further discourage materials from goning occess through the construction aits by removing the barricoses through the construction aits by remaining shall be placed on the broinces. If only one log entire shall be placed on the borricose, it of the placed on the borricose in fact of the construction of the placed on the borricose. If only one log entire shall be used. Steely burn lights shall be used when berricodes are used in a series for channelization. When phrivations must be made codes after the evaporation outhout and provide sections indirect openings that will discourage public entry. Access through barricodes shall be closed at the end of each work day. work day.

When a road or street is closed, but occess must be ol-lowed for local traffic, the borricode cannot be erected completely access a roadway. A sign with the appropria legend concerning permissible use by local traffic shall be installed above the burntonde.

Type III barricades may be used as mounting for regulatory signs, guide signs or lighting devices.



Vertical panels may be spaced closer than 200' depending on degree of hazard.

Vertical panel to be placed along edge of roadway. For 2-way traffic, vertical panels shall be installed back to back.

Type II borricode with flasher

Signs and barricades shall be moved as work progresses.

Warning signs with messages other than detailed herein shall be constructed using the largest possible letter sizes. Sign size and color shall be the same as other construction warning signs used for similar conditions.

SHOULDER TRENCH SIGNS Figure 3-4

Vertical panels for trench adjacent to traveleys shall be placed at 200 intervals on tangents and 100 intervals on curves. The interval shall be reduced as degree of curvature increases so that the edge of trench is clearly defineded.



Vertical Panel Design and Application

Vertical panels used as channelization or worning devices shall be orange and white striped and reflectorized in the same manner on sharricodes. These devices may be used for breffic aspacetion or shoulder barricoding where space is restricted. Ponels with stripes which begin of the upper is restricted. Ponels which begin of the upper of the panel of the present of the upper left side and alone with stripes which begin of the upper left side and alone with stripes which begin the upper left side and alones with stripes which begin the upper left side and alones with stripes which begin the upper left side and single which they are used singly and steady burn worning lights when they are used singly and steady burn worning lights an writted panels when they are used singly and steady burn worning lights an writted panels. are used in a series for channelization. If used for 2way traffic, back-to-back panels shall be used.



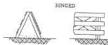


Drum Design and Application

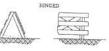
Drams used for traffic warning or chenestization shall be made of plastic and hove closed tops. Marking on drams shall be horrored circumferential orange and what reflect-orded stripes displaying the same approximate size, shape to the control of the control of

Drums may be used to channelize or delineate traffic flow or to mark hazards. When drums are placed in the road-way, educace evening signs shall be used. Drum shall not be subjected to the extent that would make them hazardous as weighted to the extent that would make them hazardous as the placed to the placed of the place case, instanting worming ignors shall be attached to drums singly. Steady burn worming light shall be attached to drums used in aeries for traffic chanellization. Smot arrow signs or vertical penels mounted above drums may be used to supplement drum delineation.





Type III Barricade Construction Figure 3-6



CPS 905-01 January 6, 2000 1 OF 4

CONSTRUCTION SIGNS AND BARRICADES

ENGINEERING DMISION DEPARTMENT OF PUBLIC WORKS OTY OF BATON ROUGE & PARISH OF EAST BATON ROUGE
DESIGNED DHAWN CHECKED APPROVED
REE/NAR GV/RLB REE/NAR W BROUSSARD

CPS 905-01

NEW ROADS, LA 7) OFFICE: (225) 387-

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-01: CONSTRUCTION SIGNS AND BARRICADES (1 OF 4)
PARISH WIDE DRAINAGE PROJECT S
NAL PUMPING STATION INFLUENT CANAL DREDGIN
PEE PARISH/OCD/DRU PROJECT NO. 39PARA3401

FLAGGING PROCEDURES

The following methods of signoling with paddles should be



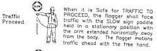
G TO STOP TRAFFIC. The flogger shall focus traffic and extend the STOP on poddle in a stolonory position with the orm extended harizantally with the orm extended harizantally from the body. The free arm a make with the palm toward approaching traffic.

Background — Orange (reflectorized) Area outside diamond — Black or Light Blue Legend — 5" series B To be made of .08 aluminum or .04 tempered aluminum

PROJECT NO

6 3/4" 6 1/4"

SHEET





When it is Desired to ALERT OR SLOW TRAFFIC, the flooger shall face tra-fic with the SLOW sign paddle held in a stationary position with the arm extended herizontally away from the

Flagger stations shall be in a highly visible location for shough in advance of the work side so that approaching traffic will have sufficient distance to reduce speed before entiring the project. 2007–300° is desireable. In urban creas, the advance distances have defined distances should be decreased.

The flagger shall stand either on the shoulder adjacent to the trelfic being controlled or in the borricaded lans. At a spot footherction a postion shall be taken on the adjacent of the shall be shall traffic. The flagger shall stand alone, never permitting other workers to congregate around the flagger station.

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Barder - White Legend - 6 series C To be made at .08 all or .04 tempered alu PADDLE SIGNS Figure 3-8

7 1/2" 7 1/2"

DRUM Figure 3-7

1/2"



W20-1 48" T 48"

SIDE ROAD CONSTRUCTION AHEAD SIGN

The Side Road Construction Ahead sign shall be used in advance of an intersection where the construction project on the side road appreach terminates at the crossing.



36" x 36" Legend 6" Series C

DO NOT PASS AND PASS WITH CARE SIGNS

The Do Not Pass sign shall be used where a road normally used for one-way traffic is temporarily being used for 2-way traffic, it shall be installed on both sides of the road at intervals of 1000 - 1500 feet.

The Poss With Care sign shall be used of the end of a no-passing zone where a Do Not Poss sign has been erected at the beginning of the zone. It shall be of the same size and erected in the same manner as the Do Not Poss Sign.



R4-1 R4" x 30" Sackground - White Legend & Border - Mock Legend - S Series D



ADVANCE DETOUR SIGN

The Advance Detour sign shall be used in advance of a point at which traffic is diverted over a temporary road or another route. It shall have the legend DETOUR (XXX) FT or DETOUR (XX) MILE.



SOFT OR LOW SHOULDER SICK

The Soft Shoulder and/or Low Shoulder sign shall be used when the shoulder of the road





₩8-4 30

Legend 5" Series C

LOCAL TRAFFIC ONLY SIGN

LOCAL TRAFFIC ONLY SIGN

The Local Troffic Dnly sign shall be used where through troffic must detour to evoid a closing of the rood, but where the road is closing of the rood, but where the road is the control of the road of the powerment width permits, otherwise it shall be erected on a bornicode in the center of the road of the powerment width permits, otherwise it shall be arected at the right of the road of the powerment width permits, otherwise it shall be accompanied by a detour orrow troffic. The words ROAD CLOSED may be substituted by RROAD CLOSED may be subst

ROAD CLOSED XX MILES AHEAD LOGAL TRAFFIC ONLY ROAD CLOSED TO THRU TRAFFIC

ONE WAY SIGN

The One Way sign shall be used to indicate roads on which traffic is clowed to trovel in one with the sign and the state of block hards and the state of block hards and the state of block hards and the state of th



Bodeground - Block Legand - Block Artow - Mhite Legand - 4" Series O

WAY R6-2 L R6-2 R 16" X 24"

ADVANCE ROAD CLOSED SIGN

The Advance Road Closed sign shall be used in advance of a point at which a raddwey is closed to all traffic or to all but local traffic, it shall have the legend ROAD CLOSED (XXX) FT or ROAD CLOSED (XXX)



W20-3 48" x 48"

ROAD MACHINERY AHEAD AND FRESH OIL SIGNS

The Road Machinery Ahead sign shall be used where heavy road equipment is operat-ing in or adjacent to the roadway. The Fresh Oil or Fresh Tar sign shall be used to worm motionats that resurracing of the new readward it temporarily hostardous and splitching on vehicles may occur.



36" x 36"

FRESH W21-2

Legend 5" Series D Legend 6" Series D ROAD CLOSED SIGN

The Road Closed sign shall be used where road is closed to all treffic except contractor's equipment and officially authorized vehicles. It shall be erected at the center of the root on or above a Type III barricade. Bridge out may be substituted where applicable.



R11-2

Sockground - White Legend & Barder - Bock Legend - & Series D

DETOUR SIGNS

The Detour Arrow sign (M4-10) shot be used at a point where a detour route has been established due to the closure of port of a road to through traffic. It shall be mounted just below the Road Closed sign or the Local Traffic Only sign normally on top of a Type III barricode.

Ill borricode.

The Detour Marker (M4-8) mounted on a route motive casembly is to be used to mark as temperary to the transfer from a regular mounted from the property of the direction of the descut on the direction of the descut.

the direction of the detour.

The Detour sign (444-9) is to be used for unnumbered routes, or in emergency situations; for periods of short duration, or where it is not for periods of short duration, or where it is not for periods of short duration, or where it is not for periods of short duration, or where the is not for periods only the short duration of the feet of the control of the contro



M4-8 12" X 24"

M4-10 L M4-10 R 48 X 18 Bochground - Black Lagend - Black Arrew - Orange Lagend - 8" Series D ADVANCE ONE LANE ROAD SIGN

The Asvance Des Lone Road sign and the Asvance Des Lone Road sign and the used only in odvance of a point where turffic in both directions must use a single lone. If a sholl have the legend ONE LANE ROAD (VO) Fit, if the one-lone stretch is not been considered throughout from either end, or if turing throughout from either end, or if turing throughout from either end, or if turing throughout provision about the simulation of the control of the control of flaggling or signal.



₩20-4 48° x 45° ROAD WORK AHEAD SIGN

The Road Work Ahead sign shall be used in advance of maintance or minor construction operations in the road.



WZ1-4 36' x 36' Legend 5" Series D

TWO-WAY TRAFFIC SIGN

The Two-Way Traffic sign shall be used where a road normally used for one-way traffic and the proporties being used for two-way traffic properties that the way traffic and the properties of the way traffic and they are free-way road. The sign shall be placed at tervals of one-half mile and at major access points.



ADVISORY SPEED SIGN

An Advisory Speed sign shall be used to indicate a maximum safe speed determined by the Traffic Engineer through a hazardous area. Advisory speeds greater than the posted speed limit shall not be used.



Legand-Line 1 - 8" Sories 6 Line 2 - 3" Sories 6

ADVANCE LANE CLOSED SIGN

The Advance Lone Closed sign shall be used in advance of a point where one lane of a multilane road is closed. It shall have the legent RIGHT (LET) LANE CLOSED (XXX) FT. May be used in conjunction with other signs.



SHOULDER WORK AND SURVEY CREW SIGNS

The Shoulder Work sign shall be used in odvance of maintance or minor construction operations on the shoulder, where the travelway remains unpobstructed.

on the shoulder, where with the used unobstructed.

The Survey Crew sign shall be used in advance of a point where a survey party is working in or adjacent to the



W21-5 Legend 5" Series C



W21-6 30° x 30° Legend 5° Series D

SPEED LIMIT AND SPEED ZONE AHEAD SIGNS

SPEED ZOUE AMEAD SIGNS
Regulatory maximum speed limit signs and be placed of intervals throughout the section of the project where work is being done. Speed limit shall be as indicated on plans, but not exceeding 45 min. The speed limit shall be reduced to 20 min through and for 225 on either sole of each pan intere construction activates of soich pan intere construction activates of the construction and the section for the property of the construction and the section for the immediate section, the regulatory signs shall be covered or removed.

The Sead Characteristics are considered as the construction of the construc

The Speed Zone Ahead sign shall be erected in advance of each speed zone within a construction area.

atruction area.

Where construction occurs within areas having posted legal speed limits less than those specified above, the posted legal speed

Existing speed limit signs of greater than 45 mph shall be removed or covered for the duration of the project.



R2-1 24" x 30" 24 x 30 Bosspround = White Legand & Border - Bock Legand - Line 1 - 4" Series E Line 2 - 4" Series E Line 3 - 10" Series E SPEED ZONE AHEAD

Bockground - Milta Legend & Border -Legend - Line 1.2 & 3 6° Series C PROJECT NO. SHEET TITT HOSPITAL RE SATTE D NEW RDADS, LA 71 OFFICE: (225) 387-

PARISH WIDE DRAINAGE PROJECT 2.
JOHNSON CANAL PUMPING STATION INFLUENT CANAL DREDGING POINTE COUPEE PARISH/OCD/DRU PROJECT NO. 39PARA340F-2.

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BARRICADES

AND

SIGNS

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CPS

ADVANCE FLAGGER SIGN

ADVANCE FLAGGER SIGN
The Advance Plagger righ shall be used in
colonice of where a flogger has been stationed
to central brift through a construction area
for the plager symbol. When needed,
distance messions below the symbol sign. The Work
Messions sign W20-7 with distances may be used
in fear of the plager symbol sign. The Work
Messions sign W20-7 with distances may be used
in fear of the Topics who shall plage. The sign shall
the sign of the Topics who shall plage the shall be
the distance of the translate through the sign shall
the food when flagger is not out the station.



W20-7 Supplemental Plate 24" x 18"



W20-7a 36° x 36° Supplemental Plate 24° x 18°

END CONSTRUCTION AND LENGTH OF CONSTRUCTION SIGNS

The End Construction sign shall be erected 500 feet beyond the end of a construction project. The legend END ROADWORK may be used.

The Length of Construction sign shall be erected of the limits of construction projects from the hor 2 miles in length, when through RCAD CONSTRUCTION NEXT (XX) but the length of the limit of a mile. It should be mounted on top of a Type III bowreade.



ROAD CONSTRUCTION NEXT XX MILES 60" x 36

Legend 6' Series C

All signs shall have arenge backgrounds with with black legends and borders, except where atherwise specified. In urban areas, the word STREET may be substituted for the word ROAD on all signs.

CPS 905-01 January 6,2000 2 OF 4

CONSTRUCTION SIGNS AND BARRICADES

ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE
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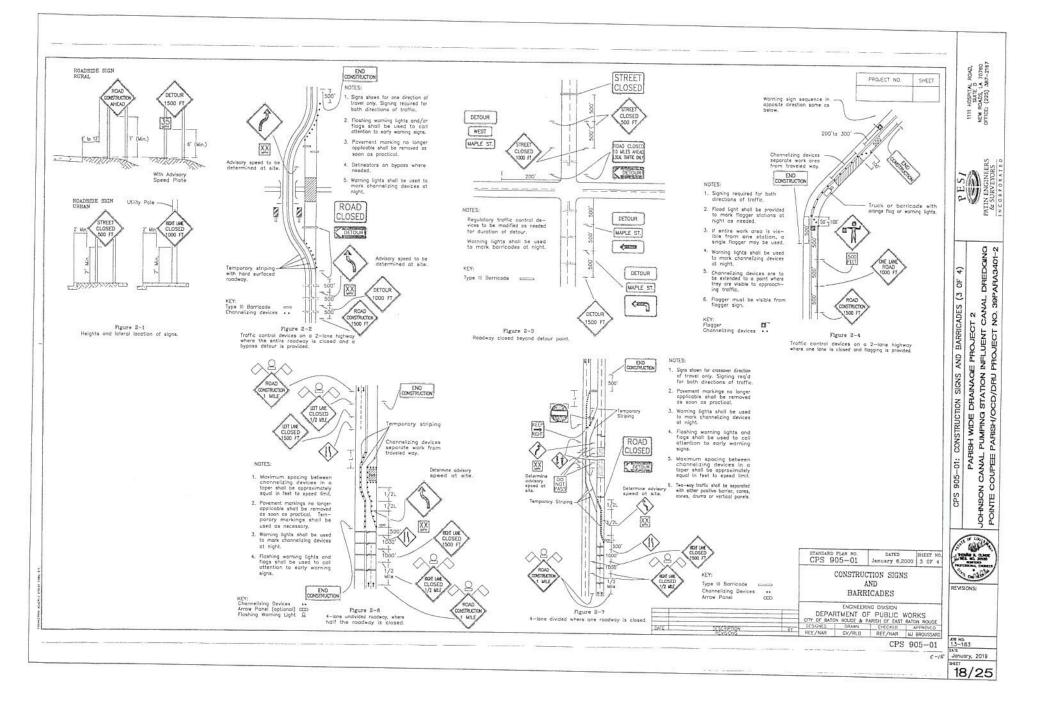
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flasher or orrow panel NOTES: Maximum spacing between channelizing devices in a toper shall be approximately equal in feet to speed limit. Floshing warning lights and flogs shall be used to call attention to early warning signs. Advisory speed to be determined of site. 111111 KEY: Channelizing Devices •• Arrow Panel (optional) CCO Floshing Warning Light B Figure 2-9

Figure 2-8

END ROAD WORK

Trailer or truck with

500

Daytime maintenance operations of short duration on a 4-lane roadway where half of roadway is closed.

Maximum spacing between channelizing devices in a taper shall be approximately equal in feet to speed limit.

Channelizing Devices ..

KEY:

CONSTRUCTION STOP

Closing multiple lones of a multilane highway.

NOTES: GENERAL

- Signs and povement markings shall be in accordance with the current edition of the Manual on Uniform Troffic Control Devices.
- The contractor shall be responsible for the erection and mointenance of permanent signs that are left in place as essential to the safe movement and guidance of traffic within the limits of the project.
- The Dity Parish will erect any detour route marking required to guide travelers around the construction area, but the confractor will be responsible for such signage required at barricade sites.
- 4. All reflective devices such as signs, drums, barricades, vertical panels, delineators of any type, etc., shall be cleaned or washed periodically to maintain their effectiveness, as required by conditions or Project Engineer.
- 5. Where a construction project involves a number of road segments, remade from each other, only those segments where actual work is in progress shall be signed. Upon completion of any segment, construction algoing shall be removed and replaced with permanent signing.
- 6. When two projects are adjoining or are separated by less than one mile, and construction is in progress on both, they shall be considered as one project for signing purposes, and all advance signing at the juncture shall be simmated, except for any signing and the project of the proje that the Project Engineer might require due to site conditions.
- 7. Signs shown in all illustrations are typical and may vary with each specific condition. Other signs more appropriate for the specific condition may be substituted in any of the aforementioned illustrations upon approval by the project engineer.
- B. Taper length (L) Fromula:

L=S+W for speeds of 45 mph or more L-WS 2 / 60 for speeds less than 65 mph

L-Mininum length of toper S=Posted speed limit prior to work or 85th percentile speed W=Width of offset

9. Specing of channelizing devices such as cones, ponels, drums, and Type I or II barricades shall not exceed a distance in feet equal to the speed first when used for taper channelization and a distance in feet of twice the speed limit when used for tangent. channelization.

DATE

PAVEMENT MARKINGS

Powement Morkings at either end of or within the timits of the project hed ore in conflict with project signing or the required traftic movements shall be removed from the powement by obrosion. If, in the opinion of the project engineer, persocial powement markings are needed for traffic control, as in channels below in with transitions, they shall be reflectated, removable, temporary tem marking tope and shall be accompanied by proper signs.

PROJECT NO.

SHEET

SICH MATERIALS

The bocking material used in the fabrication and eraction of constitution signs shall be in accordance with subsection of the Submodard Specifications for Public Works Conductor of the Submodard Specifications for Public Works Conductor of the Submodard Conductor of the Submodard Specification of Submodard Specifications, which shall be mounted on one post. A minimum of teo bots per post should be mounted on one post. A minimum of teo bots per post should be used.

Reflectionsation of signs, barricodes and drums shall be by means of Type III encapsulated lens reflective sheeting in accordance with subsection 1020—1.1(e) of the Slanded Specifications for Public Works Construction as revised by project specifications.

Sign materials and application shall conform to the Standard Specifications for Public Works Construction.

REMOVAL OF SIGNS

Signs working against a particular hozard or operation shall not be left in place when the operation is not not be left in place when the operation is not on part-time which is proportion to the control of part-time of mEX WORKING, shall be removed on MEX WORKING, what be removed on the control of traffic when the operation is not in progress. When construction operations change, spaling must change accordingly. At conflicting signs from previous apparations must be removed or covered as now signs of execution.

COVERING OF SIGNS

Sign shall be covered with on opoque material, shaped to cover all of the legend on on the face of the sign and securely fastered to prevent its removal by wind, rain or other course. The covering shall be non-reflective

LIGHTING

Lighting shall supplement barricodes that close one or more lones or that stand across the rookey. A travel way each stress the rookey. A travel way each served way each stress to the standard of four(4) lights shall be used. Lighting shall be by approved electrical installations. Battery aperted equipment shall conform to Subsection 1016.12 of the LADOID Strenderd Specifications.

- High intensity floating lights shall be used to mark the first advance working aignition.
 Low intensity floating lights shall be used to mark all other hazards off the travel very.
 Stoody burning lights shall be used on all first control devices used for characteristics.

STANDARD PLAN NO. CPS 905-01

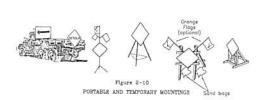
DATED SHEET NO.
January 6,2000 4 OF 4 CONSTRUCTION SIGNS

AND BARRICADES

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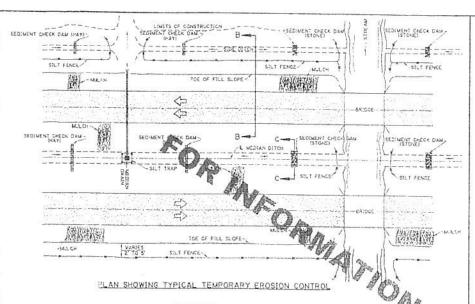
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Uniform standard signs to remain in place. S shall be be 200' in an urban area and 500' in a rural area. **HSTRUCTY**

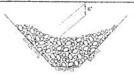
Figure 2-11 Signing for side road approach to construction project.



MULCHES

MAGNES ARE THE AFFLICATION OF MAIS OF MATERIAL PLACED ON THE SOIL SUFFACE TO PREVENT EROSION BY PROTECTING THE SOIL SUFFACE FRO BANCHER MAKET AND TO NEDOCE THE VELOCITY OF OWER AND FLOR. MALCHES CAN BE CREATED OF STITUTED. WALKETS SMALL BE IN ACCORDANCE WITH PROCECT PROFESTIONATE FOR THE PROFESTIONS. A FAMILY SIDELIES FOR THE VICE OF MAGNES AND

- I. WE ON OUT AND EMPARAMENT SLOPES MICH HAVE NOT BEEN COMPLETED TO ALAN GRACE OR WHERE THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN A REASONABLE TIME.
- 2. USE ON CLEARED, GRUNDO , AND SCALPED AREAS WHERE SOIL ENGSION IS LIKELY TO OCCUR.
- 5. USE WITH TEMPORARY SEEDING

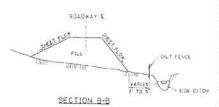


SECTION C-C

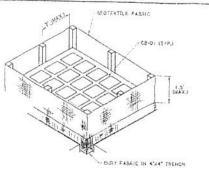
TEMPORARY SEDIMENT CHECK DAM (STONE) PAY ITEM TEMPORARY SEDIMENT CHECK GAM ISTONES

LASTINE CHECK CAM IS A SMALL TEMPORARY DAW CONSTRUCTED ACROSS A SMALL OF DAMAGE DITO. THE PREPAGE OF THIS MAXARES IS TO RECOCT THE VILLOSITY OF CONCENTRATED STORM WATER PLOOR. THEREBY REDOCTIVE CHECKNOW OF THE SMALL OF DITIO. THE STORM OF CHECK CAM MALL FRAM SMALL NOT BE USED AS A SEDUCHT TRAPPING COVICE. A FEW BASIC DESIGN. SOURCE OF THE USE OF STORM CHECK ON ANS ARE

- I. USE IN SMALL OPEN CHANNELS WHICH DRAIN ID ACHES OR LESS
- E. DO NOT USE IN A CIVE STREAM
- USE IN A TEMPORARY DITCH OR SMALE WHICH, BECAUSE OF THEIR SHORT LENGTH OF SERVICE, CALCO! RECEIVE A NON-ERODIQUE LINGNG
- USE IN FERMANENT DITCHES OR SWALES WHICH WILL NOT RECEIVE A FERMANENT LINING FOR AN EXTENDED PERIOD OF TIME
- 5. USE IN TEMPORARY OR PERMANENT DITCHES OR SWALES WHICH NEED PROTECTION DURING THE ESTABLISHMENT OF GREES LINKS
- 6. FOR STONE SPECIFICATIONS, SEE PROJECT SPECIFICATIONS FOR REPRAP, ICLASS I LED



TEMPORARY SILT FENCE APPLICATION FOR CONSTRUCTION CETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2.1



ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC CHACKET !: BOLL NOT SHOWN

SECTEXTILE FABRIC-SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC - STORM DRAIN STRUCTURE OPEN THROAT-HAT BALES. DRIVEH INTO THE GROUND

PLAN SHOWING HAY BALES PAY ITEM: TEMPORARY HAY OR STRAW BALES

TEMPORARY INLET SILT TRAP

THE TEMPORARY DROP THEET SHIT TRAP IS TO BE USED OR SMALL DRAINAGE AREAS CLESS THAN I ACRES WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE SITVER GEOTEXTILE FABRIC OR MAY BALES.

- 1. THE GEOTEXTILE PARAIC DALL ECHFORM TO PROJECT SPECIFICATIONS FOR GEOTEXTILE PARAIC ICLASS OF
- WOODEN STAKES SUPPORTING THE FABRIC SMALL BE 2' X 2' GR 2' X 4' WITH A NINIMAM LEMATH OF 3 FEET. THE STAKES SMALL SE SPACED AROUND THE INCET AT A MAXIMUM SPACING OF 3 FEET.
- THE MIGHT OF THE FABRIC ABOVE THE INLET SMALL BE CIVITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURGED IN A FRENCH APPACKMENT "WIDE BY A" CLEP. THE FABRIC SHALL BE STAPLED TO THE FOST WITH "STAPLES.
- THE THAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SECURENT SHOULD BE REMOVED AND EACH STAKE SHOULD BE FIRMLY IN THE GROWNE.
- D. HAY BILES EMALL BE PLACED SO THAT THE BINDING WIRE OR TWINE IS NOT IN CONTACT WITH THE GROUPS.



ELEVATION



SECTION A-A

TEMPORARY SEDIMENT CHECK DAM (HAY) PAY ITEM: TEMPORARY SEDIMENT CHECK DAM DOAY)

MOTES:
A MAY BALE SARRIER IS A TEMPORARY SEDWENT BARRIER CONSISTING OF A RAY BALE SARRIER IS A TEMPORARY SEDWENT BARRIER CONSISTING OF A RAY OF EACH OF THE WAY BALE BARRIER ARE:

**FEW BASIC DESIGN CONCELNES FOR THE USE OF A HAY BALE BARRIER ARE:

- I. USE WHERE EROSION WOLLD OCCUR IN THE FERN OF SHEET AND RILL EROSION
- 2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES
- 3. CALY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
- 4. DO NOT USE IN LIVE STREAMS OR IN SHALES OR DITCHES MICHE THERE IS A POSSIBILITY OF A WASHOUT

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HYDRALL ICS SECTION

13-183 January, 2019 20/25

NEW ROADS, LA 7 DFTICE: (225) 387-

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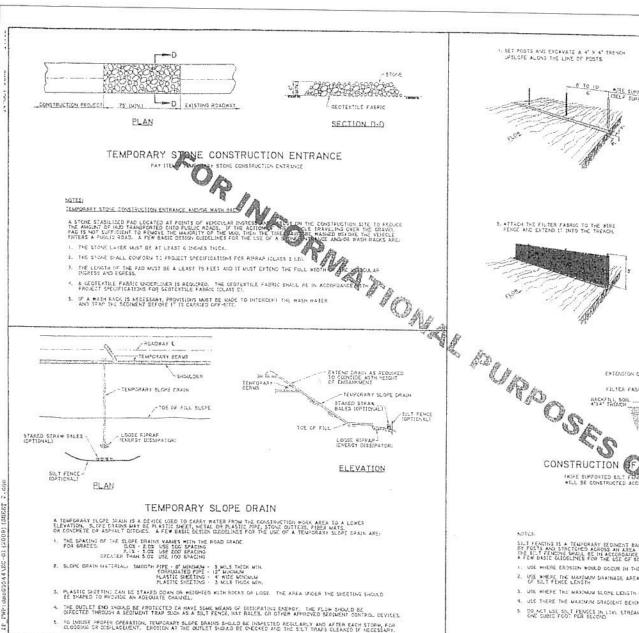
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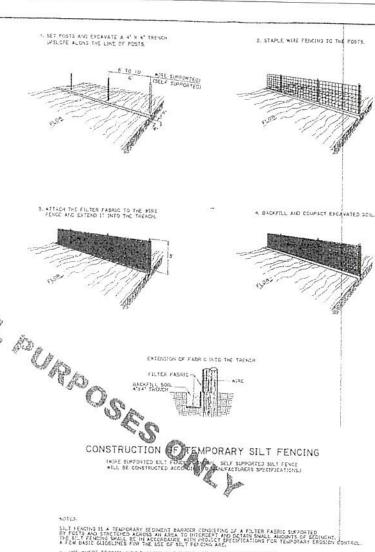
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GENEHAL

EROSION

DETAILS





- 1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSISM
- 2. LISE WHERE THE MAXIMUM DRAINLAGE AREA BEHOND THE SILT FERICE IS IN ACRE PER 100 FEET OF SILT FERICE LENGTH
- 3. USE WHERE THE MAXIMUM SCOPE LENGTH BEHTHO THE BARRIER IS ICO FEET
- 4. USE THERE THE MAXIMUM CRACTENT BEHIND THE BARRIER IS 2:1
- 5. GO NOT USE STAT PENCES IN LIVE STREAMS ON 'N DITCHES OR SWALES MYERE FLOWS EXCEED ONE CURIC FOOT PER ESCOND

CONTROL

Y EROSION DETAILS

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