



Construction Drawings For

Brownsville Navigation District

Oil Dock No. 6 Bulkhead Repairs

Project No. 10243356

BROWNSVILLE, TEXAS MAY 2021



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GENERAL NOTES

GENERA

- THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL ELEVATIONS, COORDINATES, DIMENSIONS, AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES IMMEDIATELY TO THE OWNER.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE ARMY CORPS OF ENGINEERS PERMIT FOR THIS PROJECT. REFER TO ARMY CORPS OF ENGINEERS PERMIT NO. SWG-2009-00689
- 3. THIS PROJECT IS SUBJECT TO ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS. THE CONTRACTOR SHALL EXECUTE A NOTICE OF INTENT AND IMPLEMENT THE POLLUTION PREVENTION PLAN ON SHEET 22. COMPLY WITH ALL REPORTING AND INSPECTION REQUIREMENTS SET FORTH IN THE NPDES REGULATION.
- WORKER SAFETY IN EXCAVATIONS AND TRENCHES SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. 29 CFR 1926, SUBPART P - EXCAVATIONS, TRENCHING, AND SHORING.

HORIZONTAL AND VERTICAL CONTROL

- 1. ALL ELEVATIONS SHOWN REFER TO U.S.C.E. MEAN LOW TIDE (MLT) DATUM
- 2. TOPOGRAPHIC SURVEY WAS PERFORMED BY T. BAKER SMITH, DATED APRIL 05, 2021
- 3. HYDROGRAPHIC SURVEYS WERE PERFORMED BY T. BAKER SMITH, ON APRIL 05, 2021.
- 4. COORDINATES SHOWN ARE STATE PLANE GRID, TEXAS SOUTH ZONE, NAD'83 IN U.S. FEET.
- 5. MONUMENTS USED FOR HORIZONTAL AND VERTICAL CONTROL ARE AS FOLLOWS:

DESCRIPTION	EASTING	NORTHING	STATION	OFFSET	ELEVATION
CONTROL POINT (CP1)	1351839.516	16512335.19	82+063.12	488.90'	8.27'
CONTROL POINT (CP2)	1351317.812	16512155.28	82+614.34	515.20'	9.55'
CONTROL POINT (CP3)	1352065.394	16512451.99	81+810.04	513.64'	8.91'
SPIKE NAIL CONTROL POINT (SNCP1)	1352451.26	16512501.78	81+433.20	416.85'	0.00'
U.S.E.D. (535RL1)	1344712.65	16509591.42	89+699.33	582.48'	15.10'
U.S.E.D. (535RL2)	1344738.37	16509601.71	89+671.63	582.50'	14.99'

6. DATUM CORRELATION TABLE (MLT = 0.00')

MEAN HIGHER HIGH WATER (MHHW) MEAN SEA LEVEL (MSL) MEAN SEA LEVEL (MSL) MEAN LOW WATER (MLW) MEAN LOW WATER (MLW) MEAN LOWER LOW WATER (MLLW)	0' MHHW = 1.62' MLT 0' MHW = 1.56' MLT 0' MSL = 1.06' MLT 0' MTL = 0.99' MLT 0' MLW = 0.42' MLT 0' MLW = 0.42' MLT 0' MLW = 0.21' MLT
MEAN LOWER LOW WATER (MLLW)	0' MLLW = 0.26' MLT
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD'88)	0' NAVD'88 = 1.21' MLT
NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD'29)	0' NGVD'29 = 0.89' MLT
CORPS OF ENGINEERS MEAN LOW TIDE (MLT)	0' MLT = 0.00' MLT

WATER SURFACE/RANGE BETWEEN MLLW AND MHHW REPRESENTS A NORMAL STATISTICAL WATER SURFACE RANGE. WATER SURFACE WILL, ON OCCASION, BE HIGHER OR LOWER THAN THIS RANGE

SOIL BORINGS

- BORING LOGS ON SHEET 03 ARE FROM GEOTECHNICAL REPORT TITLED: "GEOTECHNICAL EXPLORATION REPORT BROWNSVILLE NAVIGATION DISTRICT (BND) OIL DOCK 6", REPORT NO. 286-155, AUGUST 18, 2009; PREPARED BY PROFESSIONAL SERVICES INDUSTRIES, INC. (PSI) HOUSTON TEXAS, SHAILEUDRA N. ENDLEY, PH.D., P.E.
- 2. BORING LOGS ON SHEET 04 ARE FROM GEOTECHNICAL REPORT TITLED: GEOTECHNICAL ENGINEETING LANDSIDE SOIL BORINGS REPORT, BULKHEAD STRUCTURE INVESTIGATION, BROWNSVILLE, CAMERON COUNTY, TEXAS, MEG REPORT NO. 01-20-29163L, SEPTEMBER 29, 2020, PREPARED BY MILLENIUM ENGINEERS GROUP, INC. (MEG), PHARR, TEXAS, RAUL PALMA, P.E.".
- 3. BORING LOGS ON SHEET 05-06 ARE FROM GEOTECHNICAL REPORT TITLED "GEOTECHNICAL ENGINEERING WATERSIDE SOIL BORINGS REPORT, BULKHEAD STRUCTURE INVESTIGATION BROWNSVILLE CAMERON COUNTY, TEXAS, MEG REPORT NO. 01-20-29163W NOVEMBER 25, 2020, PREPARED BY MILLENIUM ENGINEERS GROUP, INC. (MEG), PHARR, TEXAS, RAUL PALMA, P.E.
- 4. FOR GRAPHICAL LOCATIONS OF ALL BORINGS REFER TO SHEET 08.
- 5. SOIL INVESTIGATION DATA IS PROVIDED FOR THE INFORMATION AND CONVENIENCE OF THE CONTRACTOR. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY, TRUE LOCATION AND EXTENT OF THE SOIL INVESTIGATION THAT HAS BEEN PREPARED BY OTHERS. THEY FURTHER DISCLAIM RESPONSIBILITY FOR INTERPRETATION OF THAT DATA BY THE CONTRACTOR AS IN PROJECTING SOIL BEARING VALUES, SOIL STABILITY, AND THE PRESENCE LEVEL, AND EXTENT OF UNDERGROUND WATER, ETC, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SUBSURFACE AND GROUND WATER CONDITIONS PRIOR TO CONSTRUCTION
- 6. SOIL INVESTIGATION REPORTS ARE NOT A PART OF THE CONTRACT DOCUMENTS. SOIL BORING LOGS ARE INCLUDED IN THIS DRAWING SET FOR REFERENCE PURPOSES ONLY.
- A COPY OF THE SOIL INVESTIGATION REPORTS ARE AVAILABLE FOR REVIEW AT THE OWNER'S
- 8. SURFACE ELEVATIONS SHOWN ON BORING LOGS ARE APPROXIMATE. REFER TO SHEET 08 FOR SURVEY ELEVATIONS. CONTRACTOR SHALL CONDUCT HIS OWN SURVEYS FOR CURRENT ELEVATIONS.



			PROJECT MANAGER	DAVID B. MOORE
			DESIGN BY	S. A. McCOY
			DRAWN BY	M. CANTU
			CHECKED BY	D. E. GARZA
В	05/21/2021	ISSUED FOR BID		
A	05/04/2021	ISSUED FOR REVIEW		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356

× SCOTT A. McCO 82936



CONCRETE

ALL CAST-IN-PLACE AND PRE-CAST CONCRETE AND GROUT SHALL ATTAIN THE MINIMUM STRENGTHS, IN POUNDS PER SQUARE INCH, GIVEN IN THE TABLE BELOW:

	COMPRESSIVE STRENGTH (PSI)	
USE	AT 28 DAYS	SPECIFICATION SECTION
SLAB-ON-GRADE, AND OTHER MISC. SITE CONCRETE	4,000	03 31 29
SHEET PILE CAP CONCRETE	5.000	03 31 29

- 2. ALL EXPOSED CORNERS SHALL BE CHAMFERED 1 1/2" INCH, UNLESS INDICATED OTHERWISE ON THE DRAWINGS
- HORIZONTAL CONSTRUCTION JOINTS SHALL BE PERMITTED ONLY WHERE INDICATED ON THE DRAWINGS OR WITH PRIOR APPROVAL FROM OWNER. ALL VERTICAL CONSTRUCTION JOINTS SHALL BE LOCATED AT MIDSPAN OR AS INDICATED ON THE DRAWINGS.
- ALL EXPOSED DRIVING AND WALKING SURFACES, AND HORIZONTAL SURFACES OF PILE CAPS SHALL RECEIVE A MEDIUM BROOM FINISH. ALL FORMED SURFACES SHALL HAVE A SMOOTH FORM FINISH, WITH ALL DEFECTS REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS
- 5. THE MAXIMUM WATER/CEMENT RATIO, BY WEIGHT, SHALL BE 0.40 FOR ALL STAGE II PILE CAP CONCRETE AND 0.45 FOR SIDEWALK CONCRETE.
- A HIGH RANGE WATER REDUCING ADMIXTURE IN ACCORDANCE WITH THE SPECIFICATIONS SHALL BE USED IN ALL PILE CAP CONCRETE.
- PRIOR TO CASTING NEW CONCRETE AGAINST EXISTING CONCRETE SURFACE, ROUGHEN THE EXISTING SURFACE. THE EXISTING SURFACE SHALL BE FREE OF LAITANCE AND SHALL BE ROUGHENED TO FULL AMPLITUDE OF APPROX 1/4", APPLY EPOXY BONDING AGENT IN ACCORDANCE TO TECHNICAL SPECIFICATION 03 31 29.

STRUCTURAL STEEL

- 1. HOLLOW STRUCTURAL STEEL (HSS) SECTIONS SHALL CONFORM TO ASTM A500 GRADE B (Fy = 46 KSI, Fu = 58 KSI).
- 2. STRUCTURAL STEEL PLATE AND ANGLE SHALL CONFORM TO ASTM A36.
- 3. WELDING ELECTRODES SHALL BE E70XX.
- 4. POST-TENSIONED ANCHOR RODS SHALL BE UNCOATED THREADBAR CONFORMING TO ASTM A 615, GRADE 75

REINFORCING STEEL

- 1. ALL REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A 615, GRADE
- 2. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SPLICES IN REINFORCING STEEL SHALL BE STAGGERED WITH NO MORE THAN 50% OF THE BARS BEING SPLICED AT ANY ONE LOCATION. ALL LAP SPLICES SHALL BE ACI 318 CLASS B.
- 3. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, CONTINUOUS HORIZONTAL WALL STEEL SHALL HAVE 90 DEGREE BENDS AND 16 INCH RETURNS ALONG EACH WALL AT CORNERS. ALTERNATELY PROVIDE CORNER BARS EQUAL TO HORIZONTAL REINFORCING AT EACH FACE AND LAP AS NOTED IN ITEM 3 ABOVE
- 4. MECHANICAL CONNECTORS MAY BE USED AT CONSTRUCTION JOINTS OR IN LIEU OF LAP SPLICES. ALL MECHANICAL CONNECTORS SHALL BE SHOWN ON THE SHOP DRAWINGS AND SHALL CONFORM TO ACI 318.
- 5. DETAILING OF REINFORCING STEEL SHOP DRAWINGS SHALL CONFORM TO THE ACI DETAILING MANUAL, SP66
- 6. ALL TOP BAR SPLICES SHALL OCCUR AT MIDSPAN. ALL BOTTOM BAR SPLICES SHALL OCCUR OVER SUPPORT LOCATIONS

EMBEDMENT EMBEDMENT SPLICE BARS LENGTH LENGTH LENGTH LENGTH LENGTH NUMBER LENGTH TABLE 1 - MINIMUM SPLICE AND EMBEDMENT LENGTHS (INCHES) CONCRETE STRENGTH = 4,000 PS TOP MINIMUM TOP BARS MINIMUM EMBEDMENT EMBEDMENT SPLICE SIZE SPLICE JUMBER LENGTH LENGTH LENGTH LENGTH 19

7. EMBEDMENT AND LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:

TABLE 1 - MINIMUM SPLICE AND EMBEDMENT

LENGTHS (INCHES)

CONCRETE STRENGTH = 5,000 PSI

MINIMUM TOP BARS MINIMUM BARS

- A. WHERE BARS ARE OF DIFFERENT SIZE. THE LAP LENGTH SHALL BE BASED ON SMALLER BAR UNLESS NOTED OTHERW
- B. THE CONTRACTOR SHALL DETERMINE ANY SPLICE LOCATIONS IN ADDITION TO THOSE SHOWN, SUBJECT TO SHOP DRAWING APPROVAL
- C. TOP BARS ARE HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW DEVELOPMENT LENGTH OR SPLICE.

DEMOLITION AND STOCKPILE

REINFORCING STEEL (CONT'D)

BAR

SIZE

- DEMOLITION OF EXISTING FACILITIES SHALL BE AS INDICATED ON THE PLANS AND SPECIFICATIONS.
- 2. UNLESS NOTED OTHERWISE, DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY AND PROPERL
- 3. ITEMS TO BE SALVAGED AND TO REMAIN THE PROPERTY OF BROWNSVILLE NAVIGATION DISTRICT INCLUDE CONCRETE RUBBLE.
- 4. MATERIAL TO BE STOCKPILED FOR PROJECT USE SHALL INCLUDE EXISTING LIMESTONE BASE AND EXISTING SUB-BASE.

SHOP DRAWINGS

- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO PREPARATION OF SHOP DRAWINGS.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVED BY THE OWNER BEFORE PURCHASE OR START OF FABRICATION.
- THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR SUBCONTRACTOR, FRECTOR, FABILIZE CONTRACT DISTURNING DIA WINDOWN AND A SUBCONTRACTOR, FRECTOR, FABILIZATION OF SHOP DRAWINGS IS PROHIBITED.

DESIGN LIVE LOADS

- 1. UNIFORM LIVE LOADS:
- BULKHEAD FROM STATION 81+713.1 82+110.7
- MUDLINE ELEV. -16.0' W/ 2.5H:1V SLOPE

TOP ELEV. +9.5'

UNIFORM SURCHARGE = 250 psf





			PROJECT MANAGER	DAVID B. MOORE
			DESIGN BY	S. A. McCOY
			DRAWN BY	M. CANTU
			CHECKED BY	D. E. GARZA
в	05/21/2021	ISSUED FOR BID		
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			DESIGN BY	S. A. McCOY
			DRAWN BY	M. CANTU
			CHECKED BY	D. E. GARZA
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PROJECT MANAGER DAVID B MOORE







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			DESIGN BY	S. A. McCOY
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g of Boring B-7 Sheet 1 of 2							
ed By	Raul Pa	alma					
epth bole	epth 55 feet below mud line						
imate a Elev	ation Me	an Sea	Level (barge)				
^{er} 14	0 lb., 30	in. dro	p, auto trip				
LL, %	PI, %	Percent Fines	REMARKS AND OTHER TESTS				
42	23	85	-				
36	17	99	-				
58	35	78	⊂ T Cave in @ ATC				
14	1	14	-				
90	67		-				

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O' Sh	of Boring B-7 Sheet 2 of 2					
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LL, %	PI, %	Percent Fines	REMARKS AND OTHER TESTS			
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Figure B-1





L	ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356
	Α	05/04/2021	ISSUED FOR REVIEW		
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				CHECKED BY	D. E. GARZA
				DRAWN BY	M. CANTU
				DESIGN BY	S. A. McCOY
				PROJECT MANAGER	DAVID B. MOORE





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ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356
A	05/04/2021	ISSUED FOR REVIEW		
В	05/21/2021	ISSUED FOR BID	·	
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			CHECKED BY	D. E. GARZA
			DRAWN BY	M. CANTU
			DESIGN BY	S. A. McCOY
			PROJECT MANAGER	DAVID B. MOORE





FILENAME 00C-01.dwg SCALE 1" = 60'

SHEET 07



HDR Engineering, INC
TBPELS Firm
Registration No. F-754

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	1024335
A	05/04/2021	ISSUED FOR REVIEW		
В	05/21/2021	ISSUED FOR BID		
			CHECKED BY	D. E. GA
			DRAWN BY	M. CAN
			DESIGN BY	S. A. Mo





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HDR Engineering,	INC
TBPELS Firm	
Registration No. F	-754

ISSUE DATE

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356
А	05/04/2021	ISSUED FOR REVIEW		
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			CHECKED BY	D. E. GARZA
			DRAWN BY	M. CANTU
			DESIGN BY	S. A. McCOY







ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356
A	05/04/2021	ISSUED FOR REVIEW		
В	05/21/2021	ISSUED FOR BID		
-				
-				
			CHECKED BY	D. E. GARZA
			DRAWN BY	M. CANTU
			DESIGN BY	A. B. COLWELL

* SCOTT A. McCOY 82936 05/21/203





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ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356
A	05/04/2021	ISSUED FOR REVIEW		
B	05/21/2021	ISSUED FOR BID		
			CHECKED BY	D. E. GARZA
			DRAWN BY	M. CANTU
				M. CANTU
			DESIGN BY	A. B. COLWELL
			PROJECT MANAGER	DAVID B. MOORE





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GRADED ROCK RIPRAP

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TBPELS Firm

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GRADED ROCK RIPRAP

- BEDDING LAYER

SCOTT A. McCOY 82936 944 05/21/204

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GRADED ROCK RIPRAP

----- BEDDING LAYER

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		DESIGN BY	
		DESIGN BT	A. B. COLWELL
-		DRAWN BY	M. CANTU
		CHECKED BY	D. E. GARZA
05/21/2021	ISSUED FOR BID		
05/04/2021	ISSUED FOR REVIEW		
DATE	DESCRIPTION	PROJECT NUMBER	10243356
	05/21/2021 05/04/2021 DATE	05/21/2021 ISSUED FOR BID 05/04/2021 ISSUED FOR REVIEW DATE DESCRIPTION	CHECKED BY 05/21/2021 ISSUED FOR BID 05/04/2021 ISSUED FOR REVIEW DATE DESCRIPTION

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GRADED ROCK RIPRAP

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ELEVATION - BULKHEAD WALL

HDR Engineering, INC TBPELS Firm Registration No. F-754

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356
А	05/04/2021	ISSUED FOR REVIEW		
В	05/21/2021	ISSUED FOR BID	-	
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			CHECKED BY	D. E. GARZA
			DRAWN BY	M. CANTU
			DESIGN BY	A. B. COLWELL
			PROJECT MANAGER	DAVID B. MOORE

PROJECT MANAGER DAVID B. MOORE DESIGN BY A. B. COLWELL DRAWN BY M. CANTU CHECKED BY D. E. GARZA HDR Engineering, INC
 B
 05/21/2021
 ISSUED FOR BID

 A
 05/04/2021
 ISSUED FOR REVIEW
 TBPELS Firm ISSUE DATE DESCRIPTION PROJECT NUMBER 10243356 Registration No. F-754

* SCOTT A. McCOY 82936 05/21/203

FILENAME 00X-02.dwg SCALE AS NOTED

SHEET 16

HDR Engineering, INC
TBPELS Firm
Registration No. F-754

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ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356
А	05/04/2021	ISSUED FOR REVIEW		
В	05/21/2021	ISSUED FOR BID		
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			CHECKED BY	D. E. GAR
			DRAWN BY	M. CANTU

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 DRAWN BY
 M. CANTU

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 M. CANTU

 CHECKED BY
 D. E. GARZA

 B
 05/21/2021
 ISSUED FOR BID

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 05/04/2021
 ISSUED FOR REVIEW

 ISSUE
 DATE
 DESCRIPTION

SCOTT A. McCOV 82936

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BULKHEAD AND ANCHOR DETAILS

^{SHEET} 19 D

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HDR E	Engineer	ing, INC
TBPEI	LS Firm	
Regist	ration No	o. F-754

				PROJECT MANAGER	DAVID B. MOORE
				DESIGN BY	A. B. COLWELL
				DRAWN BY	M. CANTU
				CHECKED BY	D. E. GARZA
•					
0	В	05/21/2021	ISSUED FOR BID		
	A	05/04/2021	ISSUED FOR REVIEW		
4	ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356

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ENLARGED SITE RESTORATION PLAN

FILENAME 01C-01.dwg SCALE 1" = 20'

SHEET 20

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		 SITE RESTORATION PLANDETAIL NOTES: 1. COMPACT EXPOSED SUB-GRADE TO 95% STANDARD PROCTOR DENSITY (ASTM D-698). 2. REINSTALL EXISTING SUB-BASE IN NO GREATER THAN 8'LIFTS. COMPACT EACH LIFT TO 95% STANDARD PROCTOR DENSITY (ASTM D-698). 3. FURNISH AND INSTALL GEOTEXTILE FABRIC. FABRIC SHALL BE MIRAFI 180N, OR OWNER APPROVED EQUAL. LAP NEW GEOTEXTILE 2'-0' WITH EXISTING GEOTEXTILE. 4. FURNISH AND INSTALL GEOGRID. GEOGRID SHALL BE TENSAR TRIAX TX5, OR OWNER APPROVED EQUAL. LAP NEW GEOTEXTILE FUSITING GEOTEXTILE. 5. REINSTALL EXISTING CRUSHED LIMESTONE BASE IN NO GREATER THAN 8'LIFTS. COMPACT EACH LIFT TO 98% MODIFIED PROCTOR DENSITY (ASTM D-1557). CONFORM TO TXDOT SPECIFICATION ITEM 247. 6. FURNISH AND INSTALL NEW PRIME COAT (MINIMUM 0.20 GALLON/SY). CONFORM TO TXDOT SPECIFICATION ITEM 310, SS-1. 8. FURNISH AND INSTALL NEW PRIME COAT (MINIMUM 0.20 GALLON/SY). CONFORM TO TXDOT SPECIFICATION ITEM 310, SS-1. 	D
VARIES	3" HMAC	с. солологи, сололого с	C
23:-6"	<u>K</u>	EXISTING CURB AND GUTTER	В
			_
			A
<u>STOR</u> ATIOI	N		
	SITE RESTOR	ATION SECTIONS AND DETAILS	

2" FILENAME 01C-02.dwg
SCALE AS NOTED

^{SHEET} 21

1	2	3	4	5	6

GENERAL NOTES

- 1. STONE SIZE 1 1/2" TO 2" OPEN GRADED ROCK.
- 2. LENGTH AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- 3. THICKNESS NOT LESS THAN 8 INCHES
- 4. WIDTH NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 5. WASHING WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.
- 6. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS, THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR WASHED, OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY
- 7. DRAINAGE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING CONSTRUCTION SITE.
- STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

MAY NOT BE NECESSARY IF EXISTING PAVED ENTRANCES ARE USED SUBJECT TO NOTES NO. 5 AND NO. 6.

- CONTRACTOR'S RESPONSIBLITY FOR PREPARATION AND IMPLEMENTATION OF STORMWATER LUTION PREVENTION PLAN
- 1. IT IS THE INTENT OF THE INFORMATION PROVIDED WITHIN THESE SPECIFICATIONS TO BE USED BY THE CONTRACTOR AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH THE FEDERAL REGULATIONS.
- 2. THE CONTRACTOR'S STORM WATER POLLUTION PREVENTION SHOULD ADDRESS THREE GOALS.
- A. DIVERSION OF THE UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE;
- B. LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE; AND
- C. REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE
- *3. IF THE AREA OF PROJECT REQUIRES, THE CONTRACTOR SHALL PREPARE AND FILE FOR BOTH OWNER AND CONTRACTOR TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY OF STORM WATER & GENERAL PERMITS TEAM (TCEQ) NOTICE OF INTENT (NOI) FORMS BEFORE BEGINNING ANY CONSTRUCTION.
- 4. THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO TCEQ.
- 5. THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN. CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVE INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK, SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER
- 6. STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE REMEDIED WITH 7 CALENDAR DAYS.
- 7. ALL INSPECTION REPORTS SUMMARIZING INSPECTION ACTIVITIES. REMEDIAL ACTION TAKEN , AND ACTUAL IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
- 8. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE TPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN.
- 9. THE CONTRACTOR SHALL ADOPT THE APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT HE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE:
- DESIGNATED AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR; REGULAR COLLECTION OF WASTE;
- CONVENIENTLY LOCATED WATER RECEPTACLES: AND
- DESIGNATING AND CONTROLING EQUIPMENT WASH-DOWN.
- 10. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE, MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF THE LAW OR THE PLANS. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER
- 11. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL TRAFFIC ENTRANCE/EXIT POINTS PRIOR TO EXITING ONTO AND PAVED ROADWAYS. (SEE DETAIL 1)
- 12. THE CONTRACTOR SHALL PROTECT ALL POTENTIAL POINTS OF DISCHARGE OF RUNOFF (INLETS. GUTTERS, AND SWALES) WITH SILT FENCING, HAY BALES, GRAVEL FILLED BAGS, OR EQUIVALENT MEANS APPROVED BY ENGINEER.
- NOTE: THE TOTAL COMBINED AREA OF THIS PROJECT IS APPROXIMATELY 0.2 ACRES (LESS THAN 5 ACRES). THEREFORE, THE FILING OF NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) IS REQUIRED. ALL OTHER REQUIREMENTS **SHALL** APPLY.

				PROJECT MANAGER	DAVID B. MOORE
				DESIGN BY	A. B. COLWELL
-				DRAWN BY	M. CANTU
-				CHECKED BY	D. E. GARZA
-					
-	В	05/21/2021	ISSUED FOR BID		
	Α	05/04/2021	ISSUED FOR REVIEW		
-	ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10243356

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STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

FILENAME 01C-03.dwg SCALE AS NOTED

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