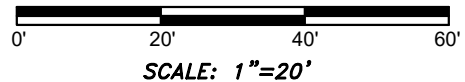
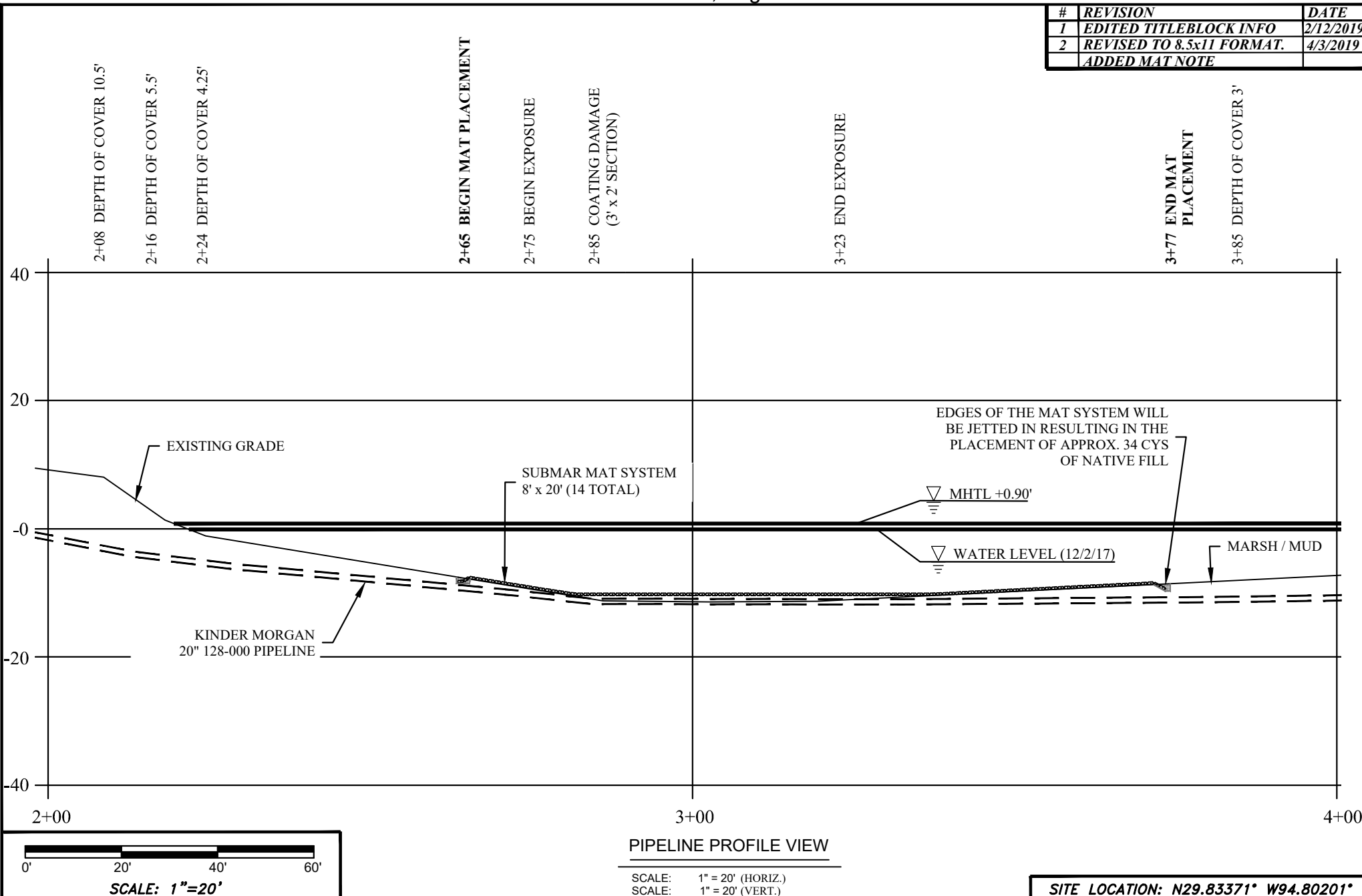


<p>1711 DUNN STREET HOUMA, LA 70360 PH. 985-868-0001 WEBSITE: WWW.SUBMAR.COM</p>	<p>LOST LAKE (OLD RIVER) CHAMBERS COUNTY BAYTOWN, TX</p>	<p>SHEET TITLE: <b>PROPOSED PLAN</b></p>				<p>ENERGY PARTNERS, L.P.</p>	<p><b>LEGEND:</b>                  — EXPOSED PIPELINE                  = = = BURIED PIPELINE                  - - - APPARENT RIGHT OF WAY                  → FLOW                  → FLOW DIRECTION</p>
		<p>FOR ESTIMATING PURPOSES ONLY AND ARE NOT CONSTRUCTION DRAWINGS. THESE CONFIDENTIAL DRAWINGS MAY NOT BE COPIED UNLESS APPROVED BY SUBMAR, INC.</p>	<p>DATE: 4/11/18 SHEET: 3 SCALE: AS SHOWN PROJECT # 15289.02 DRAWING # C-401 DWN BY: MJP APP'D BY: JMF</p>	<p>CONTACT: ANSLEY ALEXANDER PHONE: 281-478-2918</p>			



#	REVISION	DATE
1	EDITED TITLEBLOCK INFO	2/12/2019
2	REVISED TO 8.5x11 FORMAT.	4/3/2019
	ADDED MAT NOTE	



**PIPELINE PROFILE VIEW**

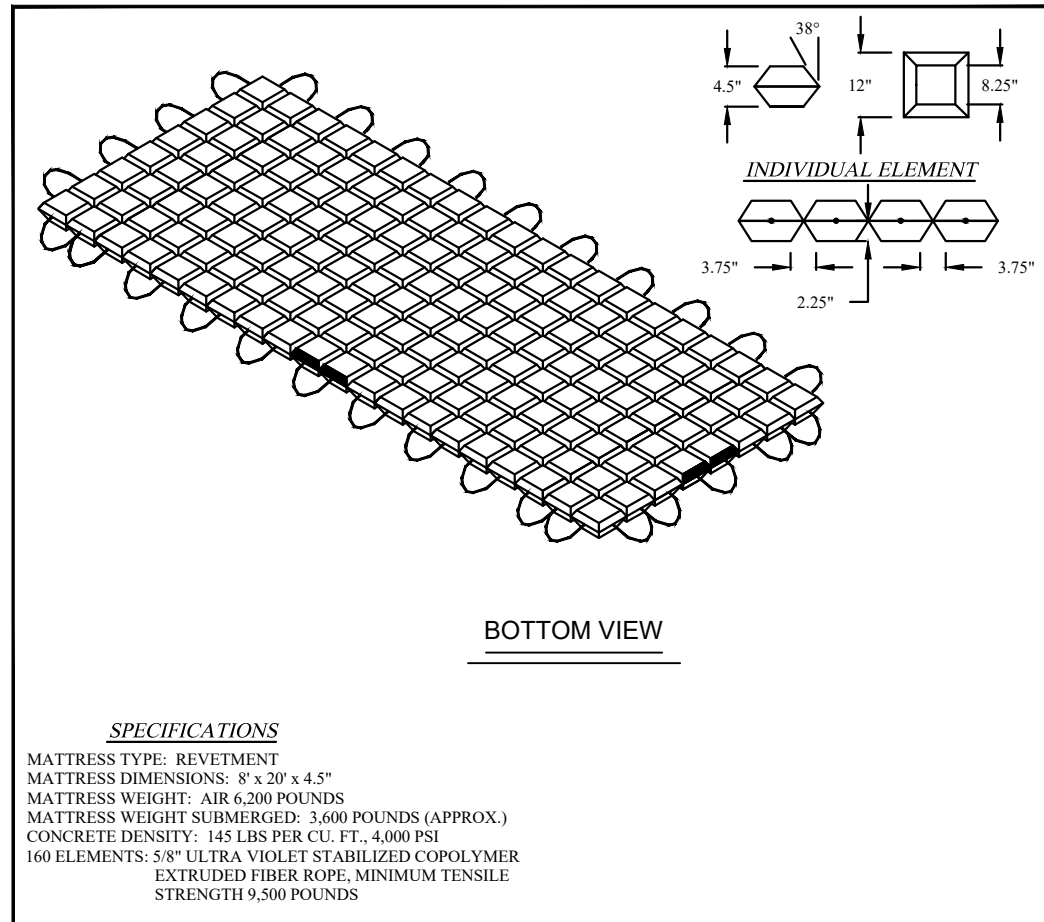
SCALE: 1" = 20' (HORIZ.)  
SCALE: 1" = 20' (VERT.)

**SITE LOCATION: N29.83371° W94.80201°**

 <div>1711 DUNN STREET HOUMA, LA 70360 PH. 985-868-0001 WEBSITE: WWW.SUBMAR.COM</div>	LOST LAKE (OLD RIVER) CHAMBERS COUNTY BAYTOWN, TX		SHEET TITLE:  ENLARGED PROFILE		 <div>KINDER MORGAN ENERGY PARTNERS, L.P.</div>		<u>LEGEND:</u>			
THESE CONCEPTUAL DRAWINGS ARE PREPARED BY SUBMAR FOR ESTIMATING PURPOSES ONLY AND ARE NOT CONSTRUCTION DRAWINGS. THESE CONFIDENTIAL DRAWINGS MAY NOT BE COPIED UNLESS APPROVED BY SUBMAR, INC.	COPYRIGHT © SUBMAR, INC. 2019 ALL RIGHTS RESERVED.	DATE: 4/11/18	SHEET: 4	SCALE: AS SHOWN	PROJECT # 15289.02	DRAWING # C-501	DWN BY: MJP	APP'D BY: JMF	CONTACT: ANSLEY ALEXANDER	PHONE: 281-478-2918

N:\15200\S\15289 KM, TX\DRAWINGS\CAD\15289\_KM\_BAYTOWN\_TX\_BASE\_CORPS

#	REVISION	DATE
1	EDITED TITLEBLOCK INFO	2/12/2019
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BOTTOM VIEW

SPECIFICATIONS

MATTRESS TYPE: REVETMENT  
 MATTRESS DIMENSIONS: 8' x 20' x 4.5"  
 MATTRESS WEIGHT: AIR 6,200 POUNDS  
 MATTRESS WEIGHT SUBMERGED: 3,600 POUNDS (APPROX.)  
 CONCRETE DENSITY: 145 LBS PER CU. FT., 4,000 PSI  
 160 ELEMENTS: 5/8" ULTRA VIOLET STABILIZED COPOLYMER  
 EXTRUDED FIBER ROPE, MINIMUM TENSILE  
 STRENGTH 9,500 POUNDS

SUBMAR MAT SYSTEM

SCALE: N.T.S.



1711 DUNN STREET  
 HOUMA, LA 70360  
 PH. 985-868-0001  
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LOST LAKE (OLD RIVER)  
 CHAMBERS COUNTY  
 BAYTOWN, TX

SHEET TITLE:

TYPICAL DETAILS



LEGEND:

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DATE:  
 4/11/18

SHEET:  
 5

SCALE:  
 AS SHOWN

PROJECT #  
 15289.02



DRAWING #  
 C-801

DWN BY:  
 MJP

APP'D BY:  
 JMF

CONTACT:  
 ANSLEY ALEXANDER

PHONE:  
 281-478-2918

<b>SHEET INDEX:</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">No.</th> <th>TITLE</th> </tr> <tr> <td>C-100</td> <td>COVER SHEET</td> </tr> <tr> <td>C-101</td> <td>EXISTING CONDITIONS</td> </tr> <tr> <td>C-401</td> <td>PROPOSED PLAN</td> </tr> <tr> <td>C-501</td> <td>ENLARGED PROFILE</td> </tr> <tr> <td>C-801</td> <td>TYPICAL DETAILS</td> </tr> </table>		No.	TITLE	C-100	COVER SHEET	C-101	EXISTING CONDITIONS	C-401	PROPOSED PLAN	C-501	ENLARGED PROFILE	C-801	TYPICAL DETAILS	<b>ENVIRONMENTAL NOTES:</b> <ol style="list-style-type: none"> <li>THE OWNER SHALL NOTIFY ALL CONTRACTORS, SUBCONTRACTORS &amp; MATERIAL SUPPLIERS THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM IS PROHIBITED.</li> <li>PERMITTEE SHALL MAINTAIN CONSTRUCTION SITE IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; AND SUPER CHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.</li> <li>CONTRACTOR SHALL CONSTRUCT PROJECT AS AUTHORIZED IN PERMITTED DRAWINGS. ANY CHANGES MUST FIRST BE APPROVED BY PROJECT MANAGER, OWNER AND INSPECTOR AND DOCUMENTED IN THE CONSTRUCTION CREW BOOK.</li> </ol>		<b>CONSTRUCTION NOTES:</b> <ol style="list-style-type: none"> <li>ALL WORK IS TO BE PERFORMED IN LOW FLOW CONDITIONS WHEN POSSIBLE. IT IS PREFERRED THAT WORK OCCURS DURING THE DRY SEASON (OR OTHERWISE UPSTREAM CONTROLS MANAGED TO MINIMIZE FLOW). CONTRACTOR SHALL MONITOR WEATHER CONDITIONS AND PLAN CONSTRUCTION ACTIVITIES ACCORDINGLY TO AVOID IN-STREAM WORK DURING RAIN EVENTS AND MINIMIZE EXPOSURE OF DISTURBED SOILS TO RAINFALL.</li> <li>CONSTRUCTION EQUIPMENT AND VEHICLES SHALL BE IN GOOD WORKING CONDITION AND FREE OF HYDRAULIC, FUEL OR OIL LEAKS. THERE SHOULD BE A PORT-O-POT ONSITE. FUEL, HEAVY EQUIPMENT AND ALL CHEMICAL PRODUCTS SHOULD HAVE ADEQUATE CONTAINMENT.</li> <li>PERIMETER EROSION AND SEDIMENT CONTROLS SHALL BE ESTABLISHED ALLOWING FOR SUBSEQUENT CLEARING AND GRUBBING WITHIN THE PROJECT AREA.</li> <li>SALVAGE, FURNISH AND WASTE MATERIALS SHALL BE TEMPORARILY STOCKPILED IN A DESIGNATED APPROVED AREA UNTIL FINAL HANDLING FOR ULTIMATE PLACEMENT. IT IS THE RESPONSIBILITY OF THE SELECTED CONTRACTOR TO ESTABLISH APPROVED STOCKPILE, STAGING AND ACCESS AREAS. IF A RAIN EVENT IS EMINENT, THEN A SILT FENCE SHALL BE INSTALLED BETWEEN THE STOCKPILE SOIL AND THE EXISTING STREAM. UPON COMPLETION OF WORK, ALL EXCESS OR TEMPORARILY STOCKPILED SOILS, STUMPS OR OTHER MATERIAL SHALL BE PERMANENTLY REMOVED AND PLACED IN UPLAND STORAGE AREAS, PER LOCAL, STATE AND FEDERAL REQUIREMENTS.</li> <li>IT MAY BE NECESSARY TO DIVERT STREAM FLOW AROUND THE WORKING AREA TO FACILITATE CONSTRUCTION USING A BYPASS PUMP OR JERSEY BARRIER. IN NO INSTANCE SHALL SILT LADEN WATER BE DISCHARGED INTO THE STREAM, DIRECTLY OR INDIRECTLY.</li> <li>ALL TEMPORARY ACCESS, STAGING, STOCKPILE OR OTHER TEMPORARILY DISTURBED AREAS SHALL BE STABILIZED AND REESTABLISHED TO THEIR PRE-CONSTRUCTION CONDITIONS, INCLUDING GRADE AND VEGETATION.</li> <li>ALTHOUGH THIS PLAN MAKES EVERY ATTEMPT TO ACCOUNT FOR EROSION AND SEDIMENT CONTROL, BANK STABILIZATION AND CONSTRUCTION LOGISTICS, UNFORESEEN CIRCUMSTANCES MAY ARISE THAT REQUIRE ADDITIONAL OR MODIFIED MEASURES TO CONTROL SEDIMENT, STABILIZE RIPARIAN STREAM BANKS AND FACILITATE STRUCTURE INSTALLATION. CONTRACTOR SHALL WORK WITH CLIENT AND ENGINEER, AS NECESSARY, TO ENSURE THAT THE PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THE INTENT OF THESE PLANS.</li> </ol>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>#</th> <th>REVISION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>EDITED TITLEBLOCK INFO</td> <td>2/12/2019</td> </tr> <tr> <td>2</td> <td>REVISED TO 8.5x11 FORMAT</td> <td>4/3/2019</td> </tr> </table>	#	REVISION	DATE	1	EDITED TITLEBLOCK INFO	2/12/2019	2	REVISED TO 8.5x11 FORMAT	4/3/2019
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<b>GRADING NOTES:</b> <ol style="list-style-type: none"> <li>ALL WORK SHALL BE IN ACCORDANCE WITH ANY SPECIAL REQUIREMENTS OF THE PERMIT.</li> <li>NO EXCAVATION SHALL BE STARTED WITHOUT FIRST NOTIFYING ONE CALL 48 HOURS PRIOR TO COMMENCEMENT OF WORK. A PRE-GRADING MEETING SHALL BE SCHEDULED AT THE SITE BEFORE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, CONTRACTOR &amp; INSPECTOR.</li> <li>PRIOR TO ANY CLEARING, BRUSHING OR DEMOLITION, OTHER THAN WHAT IS AUTHORIZED, APPROVAL MUST BE OBTAINED FROM THE PROJECT MANAGER AND INSPECTOR.</li> <li>CUT SLOPES SHALL NOT BE STEEPER THAN 1.5:1 SLOPE.</li> <li>ALL TRENCH BACKFILLS SHALL BE EXAMINED AND CERTIFIED BY THE SITE INSPECTOR PER THE GRADING PLAN.</li> <li>DUST ABATEMENT SHALL BE CONTROLLED BY WATERING.</li> <li>SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE PLUS CONTAINMENT.</li> <li>ALL PUBLIC ROADWAYS MUST BE MAINTAINED DAILY OF ALL DEBRIS DEPOSITED ON THEM AS A RESULT OF THE CONSTRUCTION OPERATION. CLEANING IS TO BE DONE TO THE SATISFACTION OF THE OWNER.</li> </ol>																											
<b>CONTROL POINTS:</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>No.</th> <th>NORTHING (N)</th> <th>EASTING (E)</th> <th>ELEVATION (Z)</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>		No.	NORTHING (N)	EASTING (E)	ELEVATION (Z)																						
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