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DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01200

GENERAL REQUIREMENTS

02/99

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SECTION 01200

GENERAL REQUIREMENTS

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PART 1 GENERAL

1.1 APPLICABLE PUBLICATIONS

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

CODE OF FEDERAL REGULATIONS (CFR)

CFR 29 Part 1926	Safety and Health Regulations for Construction
CFR 33 Part 80	Colregs Demarcation Lines
CFR 33 Part 156	Oil and Hazardous Material Transfer Operations

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM F 547	(1977; R 1995) Definitions of Terms Relating to Nail For Use with Wood and Wood-Based Materials
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ASME INTERNATIONAL (ASME)

ASME B18.2.1	(1996) Square and Hex Bolts and Screws (Inch Series)
ASME B18.2.2	(1987; R 1993) Square and Hex Nuts (Inch Series)

COMMERCIAL ITEM DESCRIPTIONS (CID)

CID A-A-2336	(Rev A) Primer Coating (Alkyd, Exterior Wood, White and Tints)
CID A-A-2962	(Rev A) Enamel, Alkyd (Metric)

CORPS OF ENGINEERS (COE)

EM 385-1-1	(1996) Safety and Health Requirements Manual
ER 415-1-5-89	Construction Time Extensions for Weather

DEPARTMENT OF COMMERCE (DOC)

DOC PS 1	(1983) Construction and Industrial Plywood
DOC PS 20-70	American Softwood Lumber Standard

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)

NIST PS 20 (1994; Addenda Jan. 1997) American Softwood Lumber Standards

Federal Specifications (FS)

- FS FF-B-575 (Rev C) Bolts, Hexagon and Square
- FS FF-N-105 (Rev B; Int Am 4) Nails, Brads, Staples and Spikes: Wire, Cut and Wrought
- FS FF-N-836 (Rev D; Am 2) Nut: Square, Hexagon, Cap, Slotted, Castle, Knurled, Welding and Single Ball Seat
- FS TT-E-529 (Rev D) Enamel, Alkyd, Semi-Gloss
- FS TT-P-25 (Rev E; Am 2) Primer Coating, Exterior (Undercoat for Wood, Ready-Mixed, White and Tints)

CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS

Title 8 Regulations California Occupational Safety and Health Regulations

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Work and Storage Areas Plan; G

SD-07 Certificates

Site-specific Safety and Health Plan; G

Activity Hazards Safety Analysis; G

1.3 PROJECT SIGNS AND BULLETIN BOARDS

1.3.1 General

The Contractor shall construct and erect project and hard hat signs and a bulletin board at respective locations designated by the Contracting Officer. The signs shall conform to the requirements of the drawings attached at the end of this section. Signs shall be erected as soon as possible and within 5 days after commencement of work under this contract.

1.3.2 Construction Signs

1.3.2.1 Materials

Lumber shall conform to DOC PS 20-70, and shall be seasoned Douglas Fir, S4S, Grade D or better except that posts, braces and spacers shall be construction Grade (WCLB).

Plywood shall conform to DOC PS 1, Grade AC, Group 1, Exterior.

Bolts, Nuts and Nails. Bolts and nuts shall be galvanized conform to FS FF-B-575 and to FS FF-N-836. Nails shall conform to FS FF-N-105.

Paints and Oils. Paints shall conform to FS TT-P-25 for primer and FS TT-E-529 for finish paint and lettering.

1.3.2.2 Execution

The following signs shall be erected:

Project Sign at location designated by the Contracting Officer.

Warning Signs facing approaching traffic on all haul roads crossing under overhead power transmission lines.

Three (3) hard hat signs at locations directed.

Two (2) underground dredge electrical cable signs at locations directed.

Six (6) beach disposal signs at locations directed.

Project and hard hat signs shall be constructed as detailed in Figures 1, 2, and 3. Decals for hard hat signs will be furnished by the Contracting Officer.

Warning Signs shall be constructed of plywood not less than 12mm thick and shall be securely bolted to the supports with the bottom of the sign face 900 mm above the ground. The sign face shall be 600 X 1200 mm, all letters shall be 100 mm in height, and the wording shall be: "WARNING: OVERHEAD TRANSMISSION LINES." Beach disposal signs shall depict the wording: "DANGER - KEEP OUT, BEACH CLOSED, U.S. ARMY CORPS OF ENGINEERS BEACH NOURISHMENT PROJECT". Buried dredge electrical power cable signs depict the wording, "DANGER - KEEP OUT, HIGH VOLTAGE UNDERGROUND DREDGE ELECTRICAL CABLE".

All exposed surfaces and edges of plywood shall be given one coat of linseed oil and be wiped prior to applying primer. All exposed surfaces of signs and supports shall be given one coat of primer and 2 finish coats of white paint. Except as otherwise indicated, lettering on all signs shall be black and sized as indicated.

1.3.3 Bulletin Board at the Contractor's office

A weatherproof bulletin board, approximately 900 mm wide and 760 mm high, with hinged glass door shall be provided adjacent to or mounted on the Contractor's project office. If adjacent to the office, the bulletin board shall be securely mounted on no less than 2 posts. Bulletin board and

posts shall be painted or have other approved factory finish. The bulletin board shall be easily accessible at all times and shall contain wage rates, equal opportunity notice, and such other items required to be posted.

1.3.4 Maintenance and Disposal

The Contractor shall maintain the signs in good condition throughout the life of the project. Signs shall remain the property of the Contractor and upon completion of the project they shall be removed from the site.

1.4 GOVERNMENT FIELD OFFICE

The Contractor shall provide as a minimum, a separate room in the Contractor's project trailer/office for the Contracting Officer's Representative. The room shall be accessed by an outside door (locked) separate from the Contractor's entry door. The space shall not be less than 3 meters wide by 4.5 meters long, and shall contain the following:

- * suitable desk and 2 chairs
- * 1 telephone
- * independent service for telephone and modem
- * 1 file cabinet, minimum 3 drawer, legal, lockable
- * access to a copy machine
- * access to a FAX machine
- * electric light and power
- * heater and air conditioning
- * toilet facilities consisting of one lavatory and one water closet complete with connections to water (hot and cold) and sewer mains

A mail slot in the door or a lockable mail box mounted on the surface of the door shall be provided. At completion of the project, the office shall remain the property of the Contractor and shall be removed from the site. Utilities shall be connected and disconnected in accordance with local codes and to the satisfaction of the Contracting Officer.

1.5 PUBLIC UTILITIES

1.5.1 General

The approximate location of all railroads, pipe lines, power and communication lines, and other utilities known to exist within the limits of the work are indicated on the drawings. The sizes, locations, and names of owners of such utilities are given from available information, but their accuracy is not guaranteed. Except as otherwise indicated on the drawings, all existing utilities will be left in place and the Contractor shall conduct his operations in such a manner that the utilities will be protected from damage at all times, or arrangements shall be made by the Contractor for their relocation at the Contractor's own expense. The Contractor shall be responsible for any damage to utilities known to exist and shall reimburse the owners for such damage caused by his operations.

1.5.2 Utilities to be Relocated or Protected

The Contractor shall notify the Contracting Officer, in writing 14 calendar days prior to starting work on any utility to be relocated or protected. On each relocation, notification shall include dates on which the Contractor plans excavation, by-pass work, removal work and/or installation work, as applicable.

1.5.3 Relocation or Removal

Utilities to be relocated or removed not as part of this contract are designated "To be Relocated by Others" or "To be Removed by Others," respectively. Utilities shown on the plans and not so designated shall be left in place and will be subject to the provisions of the clause: PROTECTION OF EXISTING VEGETATION, STRUCTURES, UTILITIES, AND IMPROVEMENTS. The Contractor without cost to the Government, may make arrangements with the owner for the temporary relocation and restoration of utilities not designated to be relocated, or for additional work in excess of the work needed to relocate utilities designated for relocation.

1.5.4 Coordination

The Contractor shall consult and cooperate with the owner of utilities that are to be relocated or removed by others to establish a mutual performance schedule and to enable coordination of such work with the construction work. These consultations shall be held as soon as possible after award of the contract or sufficiently in advance of anticipated interference with construction operations to provide required time for the removal or relocation of affected utilities.

1.5.5 Utilities Not Shown

If the Contractor encounters, within the construction limits of the entire project, utilities not shown on the plans and not visible as of the date of this contract and if such utilities will interfere with construction operations, he shall immediately notify the Contracting Officer in writing to enable a determination by the Contracting Officer as to the necessity for removal or relocation. If such utilities are left in place, removed or relocated, as directed by the Contracting Officer, the Contractor shall be entitled to an equitable adjustment for any additional work or delay.

1.5.6 Electric Current

All electric current required by the Contractor shall be furnished at his expense. All temporary lines shall be furnished, installed, connected, and maintained by the Contractor in a workmanlike manner satisfactory to the Contracting Officer and shall be removed by the Contractor in a like manner at his expense prior to final acceptance of the construction. Buried dredge electrical power cable shall be clearly marked for safety.

1.6 NOTICES

1.6.1 City of Santa Barbara

The Contractor shall notify Santa Barbara Waterfront Department, P.O.C. Mr. Dave Myerson, (805)564-5519 and the U.S. Coast Guard, Marine Safety Detachment, Santa Barbara, P.O.C. LT. Yuri Graves, (805) 962-7430 seven (7) days prior to the commencement of operation. The following information shall be provided:

Description of the project and location of worksite(s).

Size and type of construction equipment performing work in the project area and placement of dredge pipeline.

24-hour telephone numbers of the project engineer, superintendent, and

foreman.

Schedule for completion of project.

The Contractor shall notify the Contracting Officer, City of Santa Barbara Waterfront Department, and the Coast Guard Marine Safety Detachment seven (7) days prior to placing the pipeline across the channel entrance.

The Harbor Patrol (805)564-5530 and the U.S. Coast Guard, Marine Safety Detachment (805)962-7430 shall be notified by the Contractor whenever the navigation channel is to be impacted. Two (2) hours minimum notification is required for the Harbor Patrol and twenty four (24) hours minimum notification for the U.S. Coast Guard Marine Safety Detachment.

Police, Highway Patrol, Harbor District, and Fire Departments shall be notified by the Contractor whenever a street is to be closed to traffic. If the closing is to be of long duration, a single notification to each department on the last working day before closing will be sufficient. A single notification shall then be made at the time the street is again opened to traffic. If closing is to be of short duration, or if different sections of the street are to be closed at different time, notifications shall be made on a day-to-day basis.

1.6.2 Underground Services Alert

The Contractor shall contact Underground Services Alert (USA) at 1-800-642-2444 at least 2 working days, but not more than 14 calendar days prior to performing any excavation or other work close to any underground pipeline, conduit, duct, wire or other structure.

1.6.3 Existing Bench Marks and R/W Markers

The Contractor shall notify the Contracting Officer, in writing, 7 days in advance of the time he proposes to remove any bench mark or right-of-way marker.

1.6.4 United States Coast Guard

The Contractor shall notify the Commander Eleventh Coast Guard District, and the Coast Guard Marine Safety Group LA-LB not less than 14 calendar days prior to commencing work for each dredge cycle. The notifications (either letter, fax, or e-mail) shall include as a minimum the following information:

- a. Project description and location including latitude/longitude (NAD 83).
- b. The size and type of any floating construction equipment to be used.
- c. Name and radio call signs for working vessels.
- d. Telephone number for 24-hour contact with the project engineer.
- e. The schedule for completing the project.
- f. Potential hazards to navigation.

Mail address:

Commander (POW)
 Eleventh Coast Guard District
 Building 50-6
 Coast Guard Island
 Alameda, CA 94501-5100
 ATTN: Local Notice to Mariners
 TEL: (510)437-2981
 FAX: (510)437-2961
 e-mail: dchase@d11.uscg.mil
 cc: mcarlson@d11.uscg.mil

U.S. Coast Guard
 Marine Safety Group LA-LB
 1001 South Seaside Ave., Bldg. 20
 San Pedro, CA 90731
 ATTN: Waterways Management
 TEL: (310) 732-2022
 FAX: (310) 732-2029
 e-mail: uscgwwm01@mindspring.com

1.7 AIDS TO NAVIGATION

The Contractor shall not remove, relocate, obstruct, willfully damage, make fast to, or interfere with any aids to navigation. The Contractor shall notify the Eleventh Coast Guard District in writing with a copy to the Contracting Officer, not less than 30 calendar days in advance, of the time he plans to operate and equipment adjacent to any aids to navigation which requires relocation or removal.

1.8 DREDGING AIDS

The Contractor shall obtain approval of the U.S. Coast Guard and the Waterfront Department prior to placing any buoy or other dredging aid marker in the water. Buoys and other dredging aid markers shall be equipped with the necessary lights and the Contractor shall insure that all lights are in proper working order prior to installation. Buoys and dredging aids markers shall be maintained throughout the length of the contract and shall not be colored, marked, or placed in a manner that will obstruct or be confused with other navigational aids.

1.9 POINTS OF CONTACT

The following is a list of points of contact:

<u>Company or Agency</u>	<u>Contact</u>	<u>Telephone</u>
U.S. Army Corps of Engineers Resident Engineer	David K. Watanabe or Eric A. Ornelas	(805) 734-4670
Santa Barbara Harbor Waterfront Department Harbor Patrol	Dave Myerson	(805) 564-5519 (805) 564-5530
Santa Barbara County Environmental Health Services	David Brummond Laura Krajewski	(805) 346-7348 (805) 681-4900
U.S. Coast Guard Marine Safety Detachment Detachment, Santa Barbara	LT. Yuri Graves	(805) 962-7430
Eleventh Coast Guard District Local Notice to Mariners	QM2 Dan Chase	(510) 437-2981

Aid to Navigation	LT Matt Salas	(510) 437-2982
Marine Safety Group LA-LB	LT Ken O'Connor	(310) 732-2022

1.10 RESTRICTIONS

1.10.1 Obstruction of Channel

The Government will not undertake to keep the harbor entrance or navigation channels free from vessels or other obstructions. The Contractor shall be required to conduct the work in such a manner as to obstruct navigation as little as possible, and in case the Contractor's plant so obstructs the channel as to make difficult or endanger the passage of vessels, said plant shall be promptly moved on the approach of any vessel to such an extent as may be necessary to afford a practicable passage. Upon the completion of the work, the Contractor shall promptly remove his plant, including ranges, temporary buoys, and piles and other marks placed by him under the contract in navigable waters or on shore.

All underwater and above surface hazards to navigation associated with this work shall be marked with a white light of at least 40 candella.

1.10.2 Pipeline Crossings

If a discharge pipeline is to be used, the Contractor shall provide anchors or similar provisions to prevent rupture along the pipelines as required and where pipelines change in direction 22 degrees or more. Spills resulting from rupture shall be removed by and at the expense of the Contractor. Should submerged pipelines cause shoaling in the channel, the Contractor shall remove such shoals and restore to the depths as existed prior to the laying of the submerged pipe. Materials so removed shall be disposed of in a manner approved by the Contracting Officer. No separate payment will be made for the removal of such shoals and all cost thereof shall be included in the contract price. Where discharge pipeline is buried on shore, stakes shall be placed not less than one (1) meter above the sand with the signs depicting the wording, "DREDGE PIPELINE BELOW" printed in 25 mm letters.

1.10.3 Channel Crossings

The Contractor must maintain a submerged pipeline crossing in navigation channels without impact to shipping and boating activities.

The Contractor's delivery pipe and any required power lines crossing the navigation channels shall be submerged such that the top of the pipe and power lines be at a minimum depth of -4.6 meters MLLW, to provide an unrestricted navigation over the pipe and power lines for a distance of not less than 90 meters normal to the channel alignment. The Contractor shall provide anchors or weights for the submerged pipeline and powerline to prevent them from floating. The Contractor shall remove the anchors and weights after completion of the dredging operations.

1.11 MARINE PLANT

a. All marine plant and equipment which are required by federal regulations to be inspected by the United States Coast Guard, shall have valid certifications. No marine plant or equipment requiring Coast Guard

inspection shall be put into use on the job without the required certification issued by the U.S. Coast Guard Officer in Charge of Marine Inspections.

b. All marine construction equipment shall monitor appropriate VHF marine safety radio channels.

c. Fuel transfer operations shall conform to U.S. Coast Guard design regulations, CFR 33 Part 156.

1.12 PUBLIC SAFETY

Attention is invited to the CONTRACT CLAUSE: PERMITS AND RESPONSIBILITIES.

The Contractor shall provide temporary fencing, barricades, and/or guards, as required, to provide protection in the interest of public safety. Whenever the Contractor's operations create a condition hazardous to the public, he shall furnish at his own expense and without cost to the Government, such flag men and guards as are necessary to give adequate warning to the public of any dangerous conditions to be encountered and he shall furnish, erect, or maintain such fences, barricades, lights, signs and other devices as are necessary to prevent accidents and avoid damage or injury to the public. Flag men and guards, while on duty and assigned to give warning and safety devices shall conform to applicable city, county, and state requirements. Should the Contractor appear to be neglectful or negligent in furnishing adequate warning and protection measures, the Contracting Officer may direct attention to the existence of a hazard and the necessary warning and protective measures shall be furnished and installed by the Contractor without additional cost to the Government. Should the Contracting Officer point out the inadequacy of warning and protective measures, such action of the Contracting Officer shall not relieve the Contractor from any responsibility for public safety or abrogate his obligation to furnish and pay for those devices. The installation of any general illumination shall not relieve the Contractor of his responsibility for furnishing and maintaining any protective facility.

The Contractor shall furnish, install, maintain, and remove temporary buoys along the dredge pipeline within the waterway. Buoys shall be equipped with signs which will indicate, by arrows, the direction boat traffic will be permitted to pass in order to prevent unnecessary traffic over the submerged pipeline.

The Contractor shall coordinate his activities with the U.S. Coast Guard and the Santa Barbara Waterfront Department to minimize interference to all concerned. The Government or the City will not be liable to the Contractor for any loss, damage, cost or expense of any kind or nature whatsoever arising out of, connected with or attributable to the activities of others in the project area or immediate adjacent thereto.

1.13 GENERAL SAFETY REQUIREMENTS

1.13.1 General

The Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, (see CONTRACT CLAUSES: SECTION 00700, ACCIDENT PREVENTION) and the Occupational Safety and Health Act (OSHA) Standards for Construction (Title 29, Code of Federal Regulations Parts 1910 and 1926 as revised from time to time) and Cal/OSHA Title 8 Regulations are applicable to this contract. In case of conflict, the most stringent requirement of the standards is

applicable. Pursuant to EM 385-1-1, the Contractor shall submit a Site-specific Safety and Health Plan.

1.13.2 The Prime Contractor's Superintendent

The Prime Contractor's superintendent shall take an active role in enforcing the safety requirements by participation in safety conferences, hazard analysis (see below), tool box meetings, walk-through inspections, correction of violations, etc., and including that of the subcontractor's work.

1.13.3 Activity Hazard Analysis

Based on the construction schedule, the Contractor shall submit a Activity Hazards Safety Analysis of each major phase of work prior to entering that phase of activity. The analysis shall include major or high risk hazards, as well as commonly recurring deficiencies that might possibly be encountered for that operation, and shall identify proposed methods and techniques of accomplishing each phase in a safe manner. The Prime Contractor's superintendent shall take active participation in the Activity Hazards Analysis, including the subcontractors' work. Prior to start of actual work a meeting shall be held with Prime Contractor, Government, and affected subcontractor to review the Activity Hazard Analysis. In addition, job site meetings shall be held to indoctrinate foreman and workers on details of this analysis.

1.13.4 Violations

If recurring violations and/or gross violation indicate that the safety performance is unsatisfactory, corrective action shall be taken as directed, and at the discretion of the Contracting Officer's Representative the retention or some part thereof will be withheld from the progress payment until corrective action has been completed.

1.13.5 Fire Prevention

Cutting or welding will be permitted only in areas that are or have been made fire safe. Where possible, all combustibles shall be located at least 11 meters horizontally from the work site. Where such location is impracticable, combustibles shall be protected with flame-proofed covers or otherwise shielded with metal or asbestos guards or curtains. Edges of covers at the floor shall be tight to prevent sparks from going under them. This precaution is also important at overlaps where several covers are used to protect a large pile. Other fire prevention precautions shall be in accordance with the latest National Fire Codes.

1.13.6 Recordkeeping/Reporting Requirements

On all contract operations, the Prime Contractor shall be responsible for recording and reporting all accident exposure and experience incident work. (This includes exposure and experience of the prime contractor and his/her sub-contractor(s)). As a minimum these records shall include exposure work-hours and a log of occupational injuries and illnesses. (OSHA Form 200 or state equivalent as prescribed by CFR 29 Part 1926) Reference EM 385-1-1.

1.13.7 Accident Reporting

As part of the requirements for reporting accidents in accordance with EM 385-1-1, Section 1, the Prime Contractor will submit at the 50% point and

100% of project completion, a written summary of worker's compensation claims filed by workers on the project. The report will include all subcontractors. The main report covering the Prime Contractor claims will be certified as "correct and true" by the Contractor's compensation insurance carrier. The same certification will be required for subcontractor reports.

1.14 SIGNAL LIGHTS

The Contractor shall display signal lights and conduct his operations in accordance with the General Regulations of the Department of the Army and of the Coast Guard, governing lights and day signals to be displayed by towing vessels with tows, on which no signals can be displayed, vessels working on jetties, submarine or bank protection operations, and day signals to be displayed by vessels of more than 20 meters in length moored or anchored in a fairway or channel, and the passing by other vessels of floating plant working in navigable channels, as approved by the Secretary of the Army (33 C.F.R. 201.1-201.16) and the Commandant U.S. Coast Guard (33 C.F.R. 80.18-80.31a and 33 C.F.R. 95.51-95.70).

1.15 RADIO COMMUNICATION

To facilitate and insure the safe passage of vessels in the channel, the Contractor shall provide, operate and maintain on his plant, radio facilities capable of voice communication with vessels using the channel. Station licensing and frequency authorizations shall be the responsibility of the Contractor.

1.16 PERMITS

Reference is made to the clause of the contract entitled: PERMITS AND RESPONSIBILITIES, which obligate the Contractor to obtain all required licenses and permits.

1.16.1 Oversize Loads

Oversize loads, over 8'6" wide, may require a Caltrans permit for hauling on State highways. P.O.C. Caltrans, Transportation Permits, P.O. Box 231, 247 W. Third Street, San Bernardino, CA, (909) 383-4637.

1.16.2 Air Quality

The Contractor must have or be able to meet all Santa Barbara Air Pollution Control District (SBAPCD) permits and requirements at the time of award. Dredge must meet Best Available Technology for mitigation or air quality impacts (zero emissions).

1.17 REPAIR OF STREETS, ACCESS ROADS, AND WORK AREAS

The Contractor shall restore streets and access roads (used for haul routes and mobilizing equipment) and work areas to original condition upon completion of the work. Contractor shall restore to local city standards.

1.18 INSPECTION

Reference is made to the clause of the contract entitled: INSPECTION OF CONSTRUCTION. In addition, the Contractor will be required:

- a. To furnish, on the request of the Contracting Officer or any inspector, the use of such boats, boatmen, laborers, and material forming a part of the ordinary and usual equipment and crew of the plant as may be reasonably necessary in inspecting and supervising the work.
- b. To furnish, on the request of the Contracting Officer or any inspector, suitable transportation from all points on shore designated by the Contracting Officer to and from the various pieces of plant, and to and from the work areas. Should the Contractor refuse, neglect, or delay compliance with these requirements, the specific facilities may be furnished and maintained by the Contracting Officer, and the cost thereof will be deducted from any amounts due or to become due the Contractor.
- c. To allow authorized representatives of the State Air Resources Board (ARB) and the Santa Barbara Air Pollution Control District (SBAPCD) to: enter upon the Contractor's premises where a regulated facility or activity is located or conducted, or where records are kept; have access to and copy, at reasonable times, any records that must be kept per agency requirements; inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated by these agencies; and sample or monitor at reasonable times any substances or parameters at any location for the purpose of assuring compliance with agency regulations.

1.19 NAVIGATION

The Contractor's operations shall conform to the U.S. Coast Guard publication "Navigation Rules, International-Inland, INST M16672.28", latest edition.

1.20 WORK AREAS AND EASEMENTS

Contractor's work areas and temporary construction easements are as indicated, subject to approval of the Contracting Officer. The Contractor's work area(s) shall be fenced according to the instruction of the Contracting Officer. Upon completion of the work, the fence materials shall become the property of the Contractor and shall be removed from the site.

Access Easements and Contractor's Work Area will be laid out by the Contracting Officer. Any damage to electrical underground installations, light poles, pavement, fence, shrubs or other facilities within the Contractor's work area shall be repaired or replaced by and at the expense of the Contractor.

The Contractor shall mark the shoreward limits of the construction easement by means of suitable marker buoys. The remaining portion of the navigation channel shall not be obstructed and shall remain open to traffic. Areas within the construction easement not being used by the Contractor for construction shall be made available for anchorage, however, moorings within the easement will be moved by others within 5 days after written notice by the Contractor to the Contracting Officer.

The Contractor shall contact the Contracting Officer and the Waterfront Department for the location of the Contractor's dredge emergency mooring area.

Transfer of heavy equipment, dredge tenders or other large vessels will not be permitted at the boat launch ramp within the harbor. The Contractor shall use the Navy Pier for transfer of heavy equipment by making reservations with the Harbor Master's Office, subject to the Harbor Masters' regulations.

1.21 CONTRACTOR'S WORK AND STORAGE AREA

The Contractor shall submit a Work and Storage Areas Plan for approval within 15 days after receipt of Notice to Proceed. Contractor's work and storage areas, indicated on the drawings, shall be enclosed by a 1.8 meter high chain-link fence with slats in neutral color and shall remain intact during the three (3) years contract. The choice of slat material requires approval by the City of Santa Barbara Waterfront Department. Fence material shall be provided by the Contractor and may be new or used. Upon completion of the work, the fence materials shall become the property of the Contractor and shall be removed from the site.

Storage of pipeline, dredge, and support vessels during the summer of each year shall be coordinated and negotiated between the Contractor and the City of Santa Barbara.

1.22 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER

This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with the CONTRACT CLAUSES: SECTION 00700, entitled DEFAULT (FIXED PRICE CONSTRUCTION). In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

- a. The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.
- b. The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

The following schedule of monthly anticipated adverse weather delays is based upon National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

MONTHLY ANTICIPATED ADVERSE WEATHER DAYS
Work Days Based on Five (5) Day Work Week

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
10	8	4	4	4	0	0	0	2	4	6	10

- c. Upon acknowledgment of the Notice to Proceed and continuing throughout the contract, the Contractor will record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must

prevent work on critical activities for 50 percent or more of the Contractor's scheduled work day. The number of actual adverse weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph b, the Contracting Officer will convert any qualifying days to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the Contract Clause entitled: DEFAULT (FIXED PRICE CONSTRUCTION).

1.23 RAMPS FOR PIPELINE CROSSING

Beach Access Ramp. The Contractor shall provide access ramps over the discharge pipeline at 150 meter intervals so that beach access remains available for walking and for use of emergency vehicle during operations. The beach access ramps shall be constructed with material from adjacent area.

1.24 BOOSTER STATION

The shore booster pump, if required shall be mounted on rubber to reduce vibration and the blower shall be vented toward the ocean to minimize noise. The station shall be enclosed with bamboo, grape-stake, or chain-link fencing not less than 1.8 meters in height.

1.25 COORDINATION WITH OTHER CONSTRUCTION

The Contractor shall coordinate work with any other construction projects in the vicinity of the project.

PART 2 MATERIALS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

-- End of Section --