ACCIDENT PREVENTION PLAN
Holcomb Boulevard
Water Treatment Plant
Expansion
Camp Lejeune, N. C.
Contract No. N62470-81-C-1644

ACCIDENT PREVENTION PLAN

February 5, 1985

1. Contractor: Harry Pepper & Associates, Inc.

2. Project: Holcomb Blvd. Water Treatment
Plant Expansion
Holcomb Boulevard
Camp Lejeune, North Carolina

Contract No. N62470-81-C-1664

3. Quality Control Officer: Mr. Thomas Reese

4. Medical Capabilities:

a. Hospital: Onslow Memorial Hospital
Western Blvd.
Jacksonville, N. C.
Phone 577-2345

b. Base Hospital
(Emergencies Only): Naval Regional
Medical Center
Camp Lejeune
Phone (919) 577-1020
See attached map for location

c. Base Ambulance Service: Phone 451-4551

d. Name of Doctor: C. T. Streeter, M.D.
200 Doctors Drive, Suite H
Jacksonville, N. C.
Phone (919) 353-0565

5. Fire: Phone 451-5815 or 451-2941

6. Police: 451-2555

7. The Project Superintendent and/or job supervisors will hold initial and weekly safety meetings with employees. The initial indoctrination will include: the General Safety Policy and pertinent provisions of Safety Manual EM385-1-1; the employee's are responsible for property and safety of others; and for reporting all accidents. The medical facilities and first aid facilities are avaiable for required emergency treatment. Employees are responsible for reporting or correcting unsafe conditions or practices.

The weekly safety meeting will be conducted by the Project Superintendent on Monday morning and will cover all existing or anticipated conditions or safety hazards on jobsite. An outline report of

meeting givding date, time, attendance, subjects discussed and who conducted it shall be maintained and copies furnished the Contracting Officer's representative on request.

8. This contract will be performed in accordance with Corps of Engineers, U. S. Army, Safety Manual EM385-1-1 June 1977, and as amended and changed, and will take such additional measures as the Contracting Officer may deem to be reasonable necessary for the prevention of accidents.

   a. Harry Pepper & Associates, Inc. has appointed the Quality Control Officer, Mr. Reese, as the overall safety officer for this project. He will have the authority to stop work and to authorize the jobsite Superintendent to expend funds to correct unsafe conditions. Mr. Earl Haley, Project Superintendent, will be responsible for the safety of all Harry Pepper employees working on this project. Each subcontractor's superintendent or job foreman will be responsible for the safety of their employees on this jobsite.

   b. The Qaulity Control Officer will check jobsite daily for any safety violations and report them to job superintendents for correction. His check will include project housekeeping and fire prevention, traffic control and the coordination of interfacing contractor activities. The Quality Control Officer will investigate and report all accidents of proper forms.

   c. The daily safety inspection will be performed by the Quality Control Officer at the same time as the preparatory, initial or follow-up inspection is performed as outlined in the Quality Control Program. The inspections are continuous as job progresses.

   d. The Quality Control Officer will maintain an accurate record of, and will report to the Contracting Officer in the manner and on the forms prescribed by the Contracting Officer, exposure data and all accidents resulting in death, traumatic injury, occupational disease, and damage to property, materials supplied, and equipment incident to work performed under this contract.

   e. Each subcontractor will be responsible for his portion of the work performed and to indoctrinate his employees with safety rules as outlined in this program.

   f. (1) A designated employee of Harry Pepper & Associate, who holds a first aid certificate, issued by the American Red Cross, will be the first aid attendant on this project and will maintain needed first aid kits. Subcontactors working large numbers of of employees will provide first aid kits and other safety equipment needed for their employees.

(2) Burning permits will be obtained when needed. Fire lanes or access to construction area will be maintained free of obstruction. Lumber will be stored away from existing buildings. Temporary heating devices will be approved by the Safety Officer. Portable fire extinguishers will be provided where needed.

(3) Project housekeeping will be maintained in good order to prevent accidents. All stairways and passageways shall be kept free of materials, supplies and obstructions at all times. Loose or light material shall not be stored or left on roofs or floor unless it is safely secured. Protruding nails in scrap boards and timbers shall be removed, hammered in or bent flush with wood. Forms and scrap lumber and debris shall be kept free from the accumulation of unnecessary combustible material.

(4) The worker is responsible to his immediate job supervisor to report and correct unsafe conditons and for the safety of others as outlined in the initial indoctrination of employees. The workers are not required to work in unsafe conditions.

(5) Appropriate personal protection equipment and sanitary facilities shall be provided. Hard hats, protective footwear, and other required equipment shall be worn by all employees as required.

(6) The Superintendent will be responsible for work layout. Caution will be used to prevent unsafe conditions.

(7) A minimum amount of traffic will be allowed in construction area. Construction equipment, contractors' trucks and suppliers' trucks will be the only traffic in the construcion area.

g. The first aid station at the jobsite will treat minor injuries and take injured employees to C. T. Streeter, M.D. as required. Emergency treatment will be requested for all serious accidents and the base ambulance will be requested.

9. The coordination of interfacing contractor's activities is the joint responsibility of the Quality Control Officer and the Project Superintendent. Proper coordination will prevent unsafe conditions from developing.

10. Emergency telephone numbers of ambulance service, name of doctor, fire department as shown on beginning of Accident Prevention Plan will be posted on jobsite. Emergency evacuation routes will be established.

11. Safe access to all work areas will be provided.

12. In addition to daily surveilance, a monthly inspection will be performed on the attached inspection form and forwarded to the job Superintendent and myself.

13. The CQC Rep. in coordination with the jobsite superintendents shall take appropriate action for all Storm Alerts as outlined in the attached letter.

14. All Construction areas for this project shall be designated as "Hard Hat Areas". A warning sign will be posted at the construction entrance.

15. The jobsite Superintendent is responsible to see that there is adequate light, ventilation, noise control and special protective equipment available to provide a safe working condition.

16. The CQC Rep. will follow up all lost time accidents to see that all reports are completed and forwarded to the ROICC Office.

17. A jobsite bulletin board will be maintained; and crane operation signals will be posted. The job Superintendent will assign two people who he will train to do all crane signaling on this project.

18. Proper barricades and flagmen will be used when work will interfere with traffic and the ROICC Office will be notified prior to commencing any such work.

19. The CQC Representative shall maintain at the jobsite The U. S. Army Corps of Engineers Safety and Health Requirements manual EM385-1-1. It is the intention of this contractor to adhere to the safety requirements of this Manual including traffic control, fire protection, excavation, scaffolding, use of ladders, testing and inspection of equipment, storage of materials, formwork, toilets, electrical work, protection from floor openings, provide proper working

conditions in enclosed spaces, use of lifelines, welding protection and use of proper equipment for working over water.

James R. Schock

Harry Pepper & Associates

SAFETY NOTES CHECK LIST

NAME OF CONTRACTOR _____

OSHA

	Yes	No
1. Section 1910.22 (a) Housekeeping including scrap wood, nails and general trash must be kept cleaned up.	( )	( )
2. Section 1910.22 (c) Covers and/or guardrails around and over hazards of open pits, tanks, vats, ditches, etc.	( )	( )
3. Section 1910.22 (d) Post floor loading and not allow any loadings on floors greater than that designed for (example: masonry blocks).	( )	( )
4. Section 1910.23 Protect floor and wall openings.	( )	( )
5. Section 1910.23 (c) Open sides or platforms greater than 4' shall be protected by guardrails and toe plates.	( )	( )
6. Section 1910.25 Ladders must be lashed into position and positioned properly.	( )	( )
7. Section 1910.28 (a) Scaffolding must be tied off and provided with guardrails and access.	( )	( )
8. Section 1910.28 (c) Tube and couples scaffolds must be adequately braced and provided with handrail and toe plate.	( )	( )
9. Section 1910.29 Manually propelled mobile ladder stands and scaffolds must be protected with handrail and toe plate tied off and braced.	( )	( )
10. Section 1910.37 (i) Minimum headroom of 6'8".	( )	( )
11. Section 1910.94 (5) When sand blasting in field, operator must wear filter respirator, safety shoes, eye and face protection, etc.	( )	( )
12. Section 1910.102 Acethylene cylinders shall be handled, stored and utilized in accordance with compressed Gas Association Pamphlet G-1-1966.		
(a) Kept capped when not in use.	( )	( )
(b) Stored upright and secured.	( )	( )
(c) Stored minimum of 20' from oxygen bottles.	( )	( )
13. Section 1910.106 Fuel tanks must be protected by drainage or dikes, drainage shall terminate in vacant land or in an impounding basin.	( )	( )

FETY NOTES CHECK LIST

NAME OF CONTRACTOR _____

		Yes	No
14.	Section 1910.132 Personal protective equipment.	( )	( )
15.	Section 1910.133 Eye and face protection; wear eye protection when burning, cutting and grinding as well as placing concrete.	( )	( )
16.	Section 1910.135 Wear Hard Hats.	( )	( )
17.	Section 1910.136 Work Shoes.	( )	( )
18.	Section 1910.14 Sanitation.	( )	( )
	(a) Housekeeping.	( )	( )
	(b) Waste Disposal.	( )	( )
	(c) Drinking water available within 200'. Ice and drinking water may not be mixed. Where single service cups are used, provide receptacles for disposing of cups.	( )	( )
	(d) Toilet facilities for each sex. Toilets should be located within 200' of work area. Number of toilets required as follows:	( )	( )
	1-9 persons 1 toilet	( )	( )
	10-24 persons 2 toilets	( )	( )
	25-49 persons 3 toilets	( )	( )
	50-74 persons 4 toilets	( )	( )
	75-100 persons 5 toilets	( )	( )
	For each additional people add 1 more toilet.	( )	( )
	(e) Washing facilities must be provided with hot & cold water.	( )	( )
19.	Section 1910.151 First Aid Kits required and First Aid Personnel.	( )	( )
20.	Section 1910.157 Inspect portable fire extinghishers monthly, tags required to show maintenance and recharge date.	( )	( )
21.	Section 1910.178 (m) Powered industrial trucks: no riding on equipment. Equipment must be kept clean. Back-up alarm required on equipment.	( )	( )
22.	Section 1910.180 (Cranes) (a) Provide loading charts in cranes.	( )	( )
	(b) Written, dated and signed inspection reports shall be monthly and kept available for inspection.	( )	( )
	(c) Keep fire extinghisher in cab.	( )	( )
23.	Section 1910.212 General requirements for all machines: Guards must be installed.	( )	( )

SAFETY NOTES CHECK LIST NAME OF CONTRACTOR

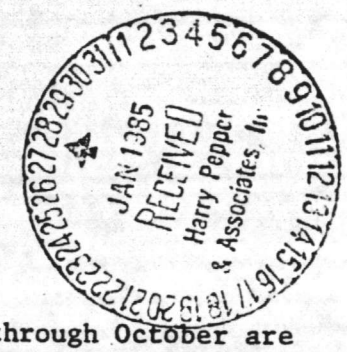
		Yes	No
24.	Section 1910.241		
	(a) Hand Power Tools must have protective shields and guards.	( )	( )
25.	Section 1910.125		
	Welding, cutting and brazing.		
	(a) Cylinders require protective caps.	( )	( )
	(b) Cylinders stored 20' from combustible material.	( )	( )
	(c) Cylinders should be capped where moving and the regulators removed.	( )	( )
	(d) Notify Fire Department prior to use.	( )	( )
	(e) Protect against sparks, flame and molten metal.	( )	( )
	(f) Protect hoses.	( )	( )
	(g) Install caps when not in service.	( )	( )
	(h) Secure cylinders so they cannot be knocked down.	( )	( )
	(i) Protect welding leads. Leads must be in good shape.	( )	( )
	(j) Check grounds.	( )	( )
	(k) Provide shields from flying sparks.	( )	( )
	(l) Use fire curtain where required.	( )	( )
	(m) Fire extinghisher must be present.	( )	( )
	(n) Use fire watch when required.	( )	( )
	(o) Supervision is responsible for welding and cutting safety.	( )	( )
	(p) Personnel must wear proper protective clothing, helmets and goggles.	( )	( )
26.	Section (Electrical)		
	(a) Inspection and color coding of extension cords.	( )	( )
	(b) Proper grounds.	( )	( )
	(c) Use of groundfault interrupters		

U.S. Army Corps of Engineers Safety and Health Requirements Manual

Page 16:	Use lifelines on structural steel, hazardous slopes, etc. on heights greater than 6'.	( )	( )
Page 46:	No open flame heating.	( )	( )
Page 150:	Lap scaffold planking 12"	( )	( )
Page 16:	Wear goggles when handling hot tars, oils, etc.	( )	( )

REMARKS: _____

DEPARTMENT OF THE NAVY
OFFICER IN CHARGE OF CONSTRUCTION
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS
JACKSONVILLE NORTH CAROLINA AREA
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542



Gentlemen:

We wish to remind you that the months of June through October are usually thought of as "Hurricane Season" in eastern North Carolina. During that period you should be especially alert to the possibility of destructive winds. Alerts are ordinarily given in terms of Hurricane Conditions. The following Conditions are used:

1. Tropical Storm/Hurricane, Condition Four: Path of storm established indicating threat of destructive force winds within 72 hours. Take initial precautionary measures to protect property and facilities.

2. Tropical Storm, Hurricane, Condition Three: Path of storm established indicating threat of destructive force winds within 48 hours. Insure all loose materials which are likely to be dangerous, such as flying debris, are secured or stored.

3. Tropical Storm/Hurricane, Condition Two: Winds of destructive force anticipated within 24 hours. Store all loose items.

4. Tropical Storm/Hurricane, Condition One: Winds of destructive force are imminent, in progress, or expected within 12 hours.

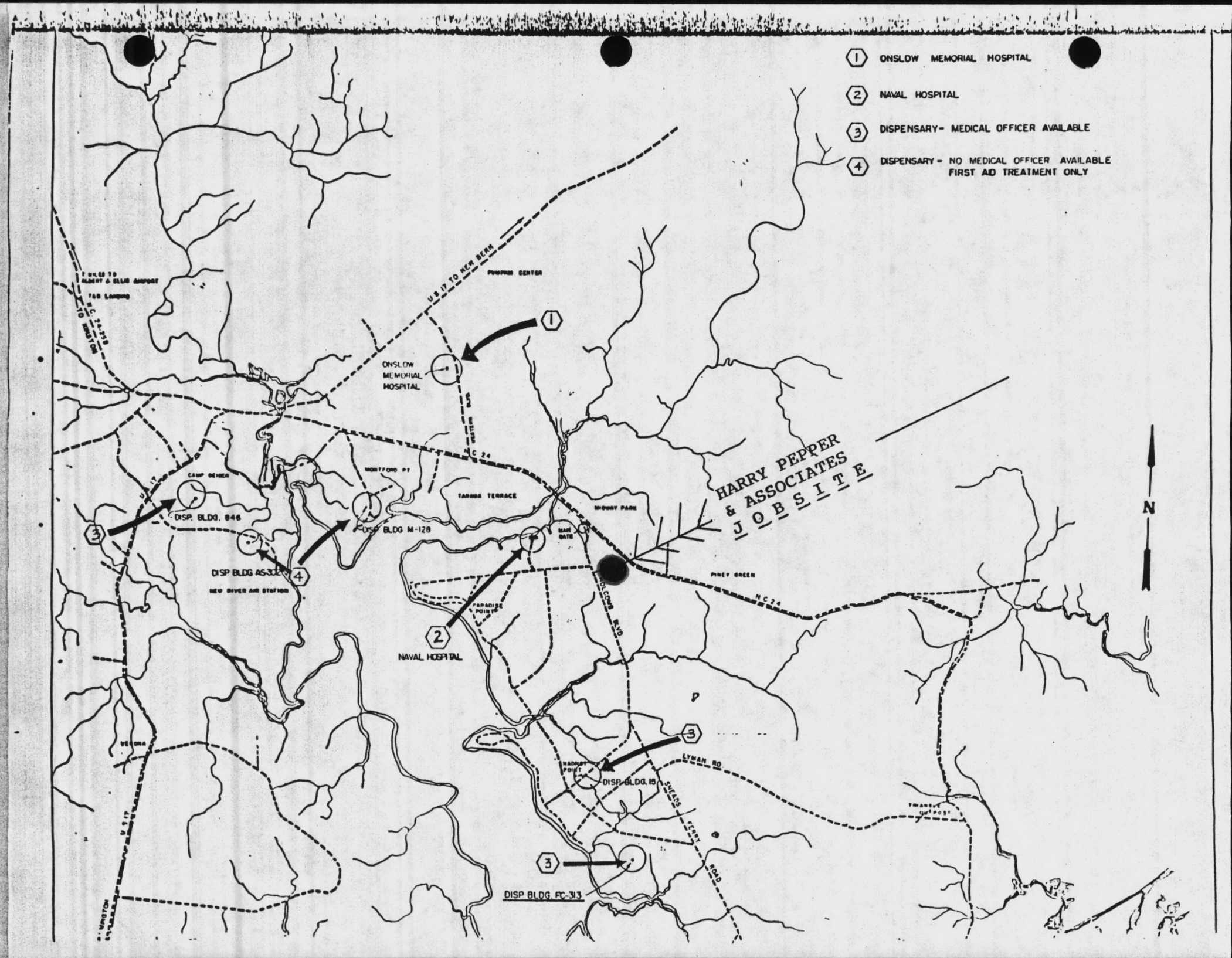
Under appropriate circumstances, we will advise you of an impending storm, requesting that you close all openings; remove all loose material tools and/or equipment from exposed locations; remove or secure scaffolding and take such other measures as may be indicated. Please provide the names and telephone numbers of personnel of your organization who can be contacted for this purpose after normal working hours.

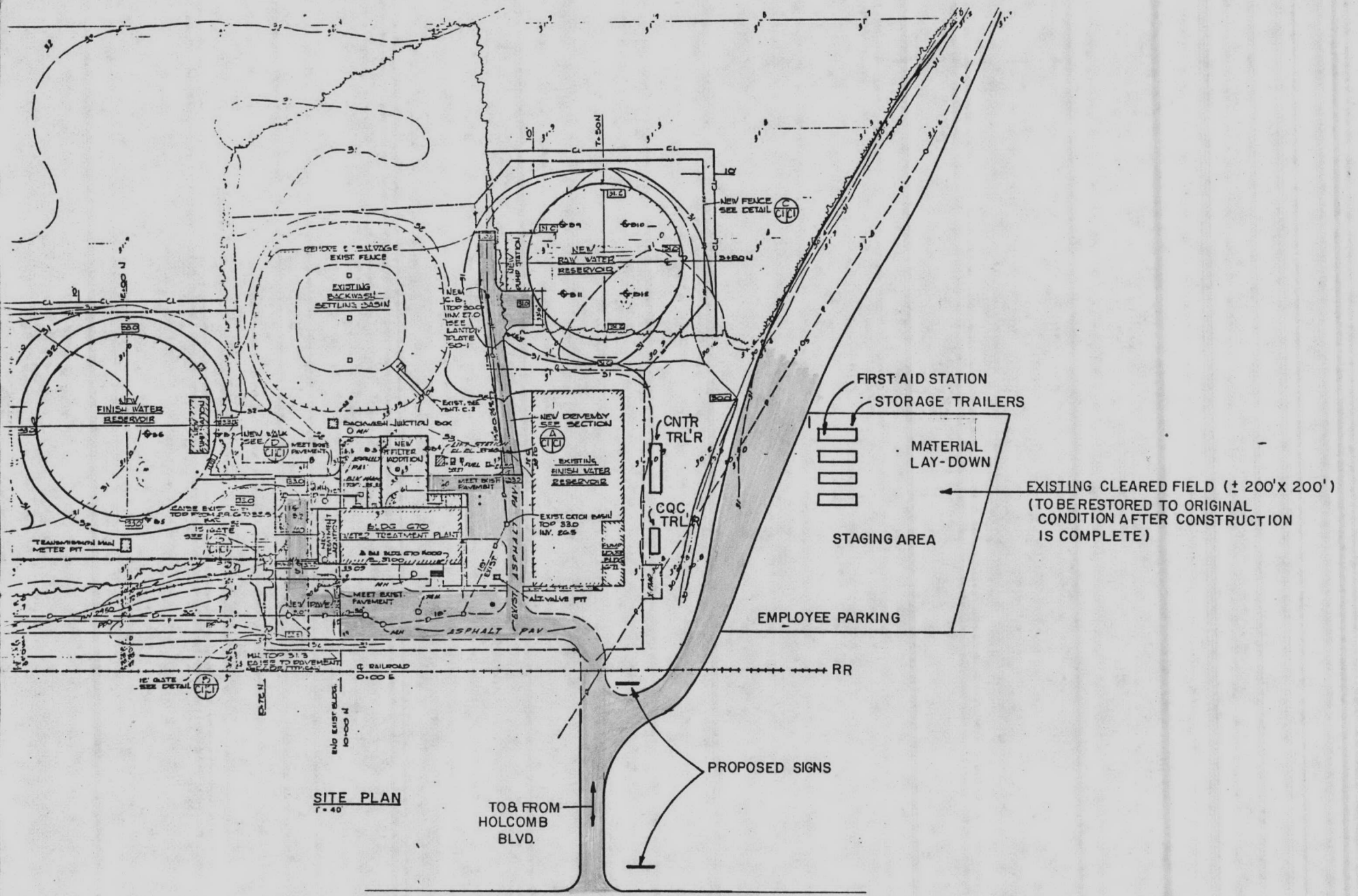
These procedures are a matter of life safety and your cooperation in the plan outlined above is expected.

Sincerely yours,

M. L. Ennett

M. L. ENNETT
Contract Specialist
For the Officer in Charge of Construction


1 ONSLOW MEMORIAL HOSPITAL
2 NAVAL HOSPITAL
3 DISPENSARY- MEDICAL OFFICER AVAILABLE
4 DISPENSARY - NO MEDICAL OFFICER AVAILABLE
FIRST AID TREATMENT ONLY
HARRY PEPPER
& ASSOCIATES
J O B S I T E
ONSLOW MEMORIAL HOSPITAL
NAVAL HOSPITAL
DISP. BLDG. 846
DISP BLDG M-128
DISP BLDG AS-302
NEW RIVER AIR STATION
DISP BLDG. 15
DISP BLDG. FC-313
CAMP GENDER
TARAWA TERRACE
MIDWAY PARK
MAIN GATE
PARADISE POINT
HADNOT POINT
PINEY GREEN
HOLCOMB BLVD
LYMAN RD
SNEADS FERRY ROAD
VERONA
POWERS CENTER
N


FIRST AID STATION
STORAGE TRAILERS
MATERIAL LAY-DOWN
EXISTING CLEARED FIELD (± 200'X 200')
(TO BE RESTORED TO ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE)
STAGING AREA
EMPLOYEE PARKING
RR
PROPOSED SIGNS
TO & FROM HOLCOMB BLVD.
NEW FENCE SEE DETAIL
NEW RAW WATER RESERVOIR
NEW FINISH WATER RESERVOIR
EXISTING BACKWASH SETTLING BASIN
REMOVE & SALVAGE EXIST. FENCE
NEW DRIVEWAY SEE SECTION
EXISTING FINISH WATER RESERVOIR
CNTR TRL'R
CQC TRL'R
BLDG C70 WATER TREATMENT PLANT
NEW FILTER ADDITION
BACKWASH JUNCTION BOX
ASPHALT PAV
SITE PLAN
1" = 40'

QUALITY CONTROL PLAN
Holcomb Boulevard
Water Treatment Plant
Expansion
Camp Lejeune, N. C.
Contract No. N62470-81-C-1644

"It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut(s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:

_____ Approved for use.

_X_ Submitted for Government approval.

_____ Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____

Signature CQC Rep. Phil Reese DATE 3-15-85

Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL

LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO.	TRANSMITTAL NO.	DATE
81-C-1644	4	3-15-85

FROM CONTRACTOR: HARRY Pepper + Associates, Inc

TO: Resident Office in Charge of Construction

PROJECT TITLE AND LOCATION: EXP Holcomb Blvd Water Treat Plant NCB, Camp Lejeune, North Carolina

CONTRACTOR USE ONLY

List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

☐ Contractor Approved ☒ OICC Approval ☐ Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

***ACTION CODES*
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged.
C-Comments
R-Resubmit

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
	01400	Quality Control PLAN	7	AN	3/19

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE *(Signature)* Phil Tew

DATE RECEIVED BY REVIEWER	FROM (Reviewer)	TO

☐ Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

☐ Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

REVIEWER'S COMMENTS

1) Plan Section/Specification Section 02250 - Soil Treatment for Termite Control coordinate w/ Base Vector Control Personnel when adding termite Control Chemicals.

2) Planned Safety is the responsibility of Job Superintendent not CQC.

COPIES TO: ROICC (2) LANTDIV (1) A-E (1)	DATE	SIGNATURE
	3/18/85	DI

18 MAR 1985 11

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE FOR APPROVAL

(READ INSTRUCTIONS ON THE REVERSE SIDE PRIOR TO INITIATING THIS FORM)

I. REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (*THIS SECTION TO BE INITIATED BY THE CONTRACTOR*)

FROM: Harry Pepper & Associates, Inc., 119 West 8th St., Jacksonville, FL	DATE: 2-5-85	CONTRACT NO.: N62470-81-C-1644
TO: Resident Officer in Charge of Construction — Marine Corps Base, Camp Lejeune, N C	[X] NEW SUBMITTAL / [ ] RESUBMITTAL	TRANSMITTAL NO.: 1
VIA:		PREVIOUS TRANS. NO. (If any):

SPECIFICATION SECTION NO. (Cover only one section with each transmittal): General Provisions	PROJECT TITLE AND LOCATION: Holcomb Blvd. Water Treatment Plant Expansion
ADDITIONAL ENCLOSURES TO:	ADDITIONAL COPIES TO:

ITEM NO. a.	DESCRIPTION OF ITEM SUBMITTED (Type, size, model number, etc.) b.	MFG. OR CONTR. CAT., CURVE, DRAWING OR BROCURE NO. (See instruction No. 7) c.	NO. OF COPIES d.	Y & D SPECIFICATION PARA. NO. e.	Y & D DRAWING SHEET, PLATE, OR FILE NO. f.	ROICC USE ONLY ACTION CODE g.
1	Company CQC Plan	Manuals	4	General Provision Para. 76		
2	Company Accident Prevention Plan	Manuals	4	Gen. Provisions Para. 43		

DISTRIBUTION REQUESTED (Attach additional sheet, if necessary).

NAME AND SIGNATURE OF CONTRACTOR: James R Schoolz
Harry Pepper & Assoc., Inc.

II. ROICC ACTION (*THIS SECTION WILL BE USED BY THE APPROVING AUTHORITY ONLY*)

ACTION CODES: THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS SUBMITTED: (*A code letter will be inserted for each item in column g, section I, above*).

A - APPROVED AS SUBMITTED.

B - APPROVED, EXCEPT AS NOTED ON DRAWINGS. RESUBMISSION NOT REQUIRED.

C - APPROVED, EXCEPT AS NOTED ON DRAWINGS. REFER TO ATTACHED SHEET. RESUBMISSION REQUIRED.

D - WILL BE RETURNED BY SEPARATE CORRESPONDENCE.

E - DISAPPROVED. SEE ATTACHED SHEET.

NOTE: Approval of items does not relieve the contractor from complying with all the requirements of the contract plans and specifications.

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

4KD-SOUTHDIV-4-11012-5 (Rev. 5/78)

SHEET _____ OF _____

A

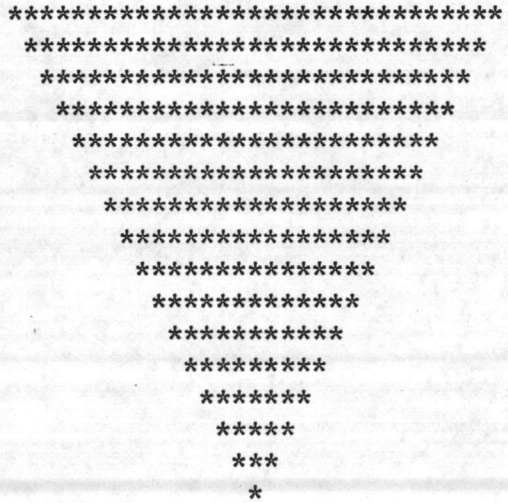
QUALITY CONTROL PLAN

FOR

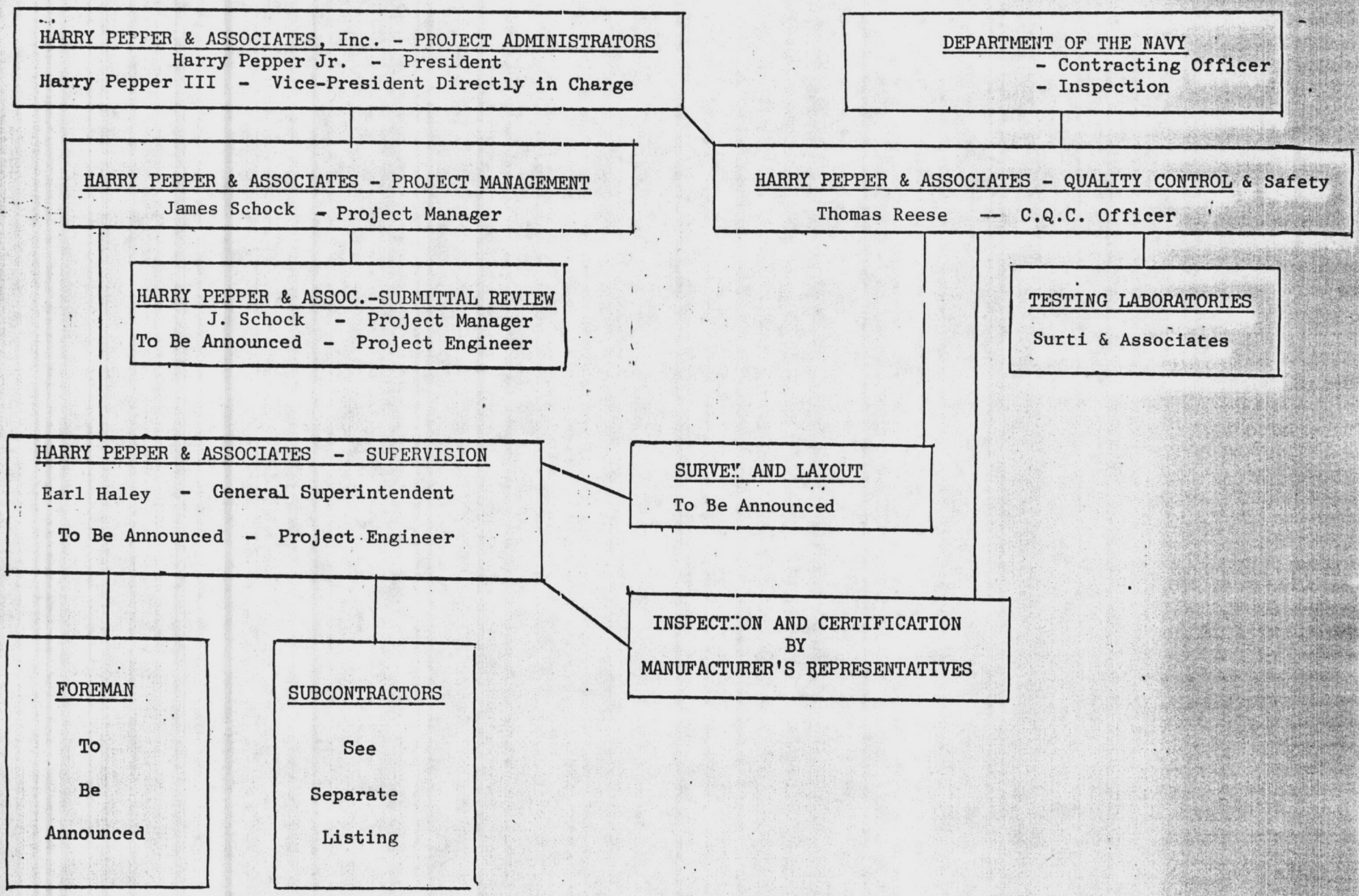
HOLCOMB BOULEVARD
WATER TREATMENT PLANT EXPANSION
CAMP LEJEUNE, NORTH CAROLINA
N62470-81-C-1644

BY

Harry Pepper & Associates, Inc.
119 West 8th Street
Jacksonville, Florida 32206



PROJECT ORGANIZATION CHART



GENERAL DEFINITIONS AND REQUIREMENTS

QUALITY CONTROL PROGRAM

CONTRACTOR QUALITY CONTROL CQC

Contractor Quality Control (C.Q.C.) is the management and inspection method used by Harry Pepper & Associates to assure that their procurement personnel and artisians purchase and construct in strict accordance with the Contract Drawings and Specifications.

This program will be administer under Item 76 of The General Provisions and Section 01400 titled Quality Control of the Contract Specifications.

The control shall include both on-site and off-site inspection as required by the Specifications.

Each Subcontractor will appoint a representative qualified to administer the quality control program for his phase of the work.

The control shall include a control system to perform sufficient inspection and tests of all items of work, including that of his Subcontractors, to insure conformance to applicable Specifications and Drawings with respect to material, workmanship, construction, finish, functional performance and identification. The Contractor's control system will specifically include the surveillance and tests required in the technical provisions of the Contract Specifications.

PHASES OF INSPECTION:

(1) Preparatory Inspection. To be performed prior to beginning any work on any definable segment of work. To include a review of contract requirements; a check to assure that all materials and/or equipment have been

tested, submitted, and approved; a check to assure that provisions have been made to provide required control testing; examination of the work area to ascertain that all preliminary work has been completed; and a physical examination of materials and equipment to assure that they conform to approved shop drawings or submittal data and that all materials and/or equipment are on hand. As a part of the preparatory work, Contractor's Quality Control organization will review all shop drawings, certifications, and other submittal data prior to submission to the Contracting Officer. Contractor's Quality Control chief shall affirm by signing and dating each submittal, prior to offering it to the Contracting Officer for his records, that the material or equipment conforms to the Plans and Specifications. Any departures from Plan and Specifications shall be clearly pointed out on the submittal and submitted to LANT-DIV, via A & E as a deviation. Submittals which do not contain evidence of review and approval by the Contractor's Quality Control organization are unacceptable and will be returned with no approval action taken. Final approval of those submittals designated elsewhere in this contract for action by Contractor's CQC and not the Contracting Officer is also a part of the preparatory inspection process.

(2) Initial Inspection. To be performed as soon as a representative segment of the particular item of work has been accomplished and to include examination of the quality of workmanship and review of control testing for compliance with Contract requirements, use of defective or damaged materials, omissions, and dimensional requirements.

(3) Follow-up Inspections. To be performed daily or as frequently as necessary to assure continuing compliance with Contract requirements, including control testing, until completion of the particular segment of work.

The Contractor shall maintain current records of all inspections and test performance on an appropriate form as attached. These forms will be filled out dialy and furnished to the Contracting Officer.

SHOP DRAWINGS

All submittal information required by the technical sections of the Contract Specifications shall be approved by the Contractor's Quality Control System in accordance with Section 01400-6, including items listed in Specifications for Government approval. Each submittal will be stamped with Contractor's approval stamp. The approval stamp shall be worded as follows:

> "It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut(s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the contract drawings and specifications and can be installed in the allocated space, and is ____ approved for use/ ____ submitted for Government approval _____ approved for use subject to Government approval of specific deviation.

AUTHORIZED REVIEWER _____ DATE:_____

SIGNATURE OF CQC_____ DATE:_____

The person signing the certifification shall be the one designated in the CQC plan as having this authority. The signature shall be in original ink.

ACCIDENT PREVENTION PLAN

The Contractor's Job Superintendent will be responsible for assuring the implementation of the Contractor's safety program as outlined in The Safety Program.

HARRY PEPPER & ASSOCIATES, INC.

ENGINEERING CONTRACTORS

February 5, 1985

Resident Officer in
Charge of Construction
Naval Facilities Engineering
Command Contracts
Camp Lejeune, North Carolina 28542

ATTN:

RE: Holcomb Blvd. Water Treatment
Plant Expansion
Holcomb Boulevard
Camp Lejeune, N. C.
Contract No. N62470-81-C-1644

Gentlemen:

We are pleased to announce our CQC Officer will be Mr. Thomas Reese. The enclosed letter of appointment is forwarded for you records and it outlines his duties, responsibilities, and authority as specified. Since he is the only Quality Control person we presently intend to place on this project and we have no other military or municipal jobs with this requirement at this time, he is our Quality Control organization and the description of his duties and authority describes our on staff organization. Mr. Reese's resume is attached to this letter for your review.

In additon to our on staff CQC, we intend to utilize Surti & Associates, Inc., 217 Henderson Drive, Jacksonville, North Carolina 28540 (919-455-3564) to perform all independent field and laboratory tests relating to earthwork, paving, concrete, topsoil, and high strength bolt testing, etc.

Very truly yours,
HARRY PEPPER & ASSOCIATES, Inc.

James R. Schock

J. R. Schock, P.E.
Project Manager

JRS/gsa

119 WEST EIGHTH STREET • P.O. BOX 3007 • JACKSONVILLE, FL. 32206 904/356-3954

Resume of Thomas P. Reese

Route 2 Box 162 A
Beulaville, NC 28518
(919) 298-4416

EMPLOYMENT OBJECTIVE

A position as Quality Control with a reputable company.

WORK HISTORY

10/1/84 to Present

J.W. Cook Inc.
Whiteville, NC
Quality Control Inspector
Construction of the Amphibious Vehicle Maintenance Shop, Marine Corps Base Camp Lejeune, NC

As CQC, I inspect the job site on a daily bais, and oversee that all materials and workmanship meet the requirements of the plans and specification. I coordinate on a daily basis with the Navy Inspector. I certify all tests required and the daily progress of the contract. I maintain as-built drawings and submit daily quality control reports as well as daily work reports from the General Contractor and his sub-contractors. I review, approve and submit required submittal data to the A&E and to the Department of the Navy.

Salary: $23,000.00

9/25/83 to 10/1/84

COMANCO, INC.
Kinston, NC
Quality Control Inspector
Construction of the Heavy Truck Maintenance Shop, Marine Corps Base, Camp Lejeune, NC

My job description is the same as outlined with J.W. Cook Inc.

Salary: $20,800.00

11/15/82 to 9/24/83

Cieszko Construction Co. Inc.
Havelock, NC
Quality Control Inspector
Replacement of water laterals, Marine Corps Base, Camp Lejeune, NC

My job description is the same as outlined with J.W. Cook Inc.

Salary: $15,600.00

7/25/82 to 11/15/82

Self employed as a wholesaler and retailer of leather goods.

7/22/79 to 7/25/82

Town of Pink Hill, NC
Director of Public Works

Responsible for the effective maintenance of the Town's water and sewer systems. Also responsible for the maintenance of streets, park and cemetary, sanitary and trash collection and other town functions as directed by the Board of Commissioners.

Salary: $14,500.00

7/78 to 7/79

Town of Kenansville, NC
Director of Public Works

My job description is the same as outlined when employed with the Town of Pink Hill.

Salary: $10,400.00

9/77 to 7/78

I was a full time student at James Sprunt Technical College, Kenansville, NC, a two year course working toward an Associate Degree in Applied Science and an Associate Degree in Business Administration.

7/73 to 4/31/77

Nationwide Trailer Rental Systems Inc.
Wichita Kansas
Regional Manager with additional duties as Quality Control.

Supervised seven office managers within my assigned region of resposibility. These managers were responsible for making minor and major repairs to all rental equipment at their repair facility and within an assigned area. I also performed Quality Control Inspections at five facilities located within the Eastern US responsible for the construction of new equipment. I was also responsible for the effective movement of equipment within and out of my region. This company went out of business.

Salary: $ 13,900.00

12/11/51 to 7/1/72

United States Air Force
Honorable Discharge

During my Military career I performed duties as a Military Policeman, and as a Military Police Training Instructor. In 1968. I was selected by Air Force Headquarters to become an organizational First Sergeant. A First Sergeant is directly responsible to the Commander for the Health, Safety and Welfare of all assigned personnel. He must be capable of making sound an accurate decisions in any given situation. He must be a leader capable of motivating people toward an assigned goal.

EDUCATION

9/48 to 6/51

Waverly Senior High School
Waverly, New York

9/77/3/82

James Sprunt Technical College
Kenansville, North Carolina

SPECIAL COURSES

Office Management
Personnel Management
Principles of Management
Production Management

SERVICE SCHOOLS

Leadership School
Non-Commissioned Officer's School
Management School
Supervisor's School
Instructor's School

PERSONAL

I am married and have one child.

REFERENCES

These are available upon request.

HOBBIES

Fishing, Camping and Leathercrafting.

COMANCO, INC.
GENERAL CONTRACTORS

TO WHOM IT MAY CONCERN

August 23, 1984

This is to advise that Phil Reese has been the CQC Representative for the Navy on our Maintenance Shop project at Camp Lejenue, North Carolina since August, 1983.

Phil understands what is required for processing papers, organizing and checking submittals, and inspecting the field work. He is persistant in securing data from subcontractors and suppliers, which is probably the most difficult part of the job. He keeps orderly files and follows up regularly. If he is confronted with a technical or engineering problem that he does not understand, he researches the problem and reviews it with someone who can assist him in securing the proper answers. Phil represents the Navy honestly and well. At the same time, he is objective and concerned about helping the contractor solve problems. The Base Inspector has indicated to us that he is well satisfied with Phil's performance on this project.

If we had secured the Combat Vehicle Maintenance project we intended to employee Phil Reese as our CQC on that project.

Sincerely,

COMANCO, INC.

J B Worthington

J. B. Worthington

JBW/dd

P. O. BOX 1006 • 1001 EAST HIGHLAND AVE. • KINSTON, N. C. 28501 • TEL. (919) 522-1444

CIESZKO CONSTRUCTION COMPANY, INC.
P. O. Box 506 (919) 447-2096
HAVELOCK, NORTH CAROLINA 28532

11 October 1983

TO: WHOM IT MAY CONCERN

SUBJECT: LETTER OF RECOMMENDATION: THOMAS P. REESE

Thomas P. Reese has been employed by Cieszko Construction Company, Incorporated from 8 November 1982 to 7 October 1983, as a Contractor Quality Control Representative. During this time his duties included but were not limited to the following:

1. Preparation of Daily Quality Control Reports.
2. Submission and approval of manufacturers submittal data.
3. Preparation of as-built drawings.
4. Administration and review of a testing program including compaction tests for soils and rock, concrete testing, pressure and leak testing of water lines, and testing chlorine concentration.
5. Procurement of material to conform with work schedules.
6. Prepartion of weekly and monthly work schedules.

During the period of his employment, Mr. Reese was both confident and capable in his abilities. He was diligent in the performance of his duties to insure that the requirements of the contract documents were met. He was a loyal employee and at all times was respected by both labor and management on the job.

I believe Mr. Reese possesses the traits necessary to be a valued employee in a variety of occupations. I found him to be very knowledgable in the installation of under ground water distribution systems and heartly recommend him to anyone in this field. I look forward to be able to work with Mr. Reese again.

Sincerely yours,

Martin G. Cieszko

Martin G. Cieszko, Vice President
CIESZKO CONSTRUCTION COMPANY, INC.

MGC:seb

December 19, 1984

Harry Pepper & Associates Inc.
Post Office Box 3007
Jacksonville, Florida 32206

Dear Mr. Pepper

This application, with the attached resume is submitted for consideration for your position as Contractor Quality Control for your contract # N62470-81-C-1644, at Camp Lejeune.

At present, I am employed as the CQC, for J.W. Cook Inc. who is the General Contractor for construction of the Amphibious Vehcile Maintenance Shop at Camp Lejeune.

With my experience in both water and sewer repairs and installation, along with my knowledge of the Quality Control program as outlined by the Department of the Navy, I feel that I would be a valuable asset to your company.

Sincerely yours,

Thomas P. Reese

Thomas P. Reese

HARRY PEPPER & ASSOCIATES, INC.

ENGINEERING CONTRACTORS

February 5, 1985

Mr. Thomas Reese
Route 2,Box 162A
Beaulaville, North Carolina 28518

RE: Holcomb Blvd. Water Treatment Plant Expansion
Holcomb Boulevard
Camp LeJeune, North Carolina
Contract No. N62470-81-C-1644

Dear Sir:

You are hereby appointed Contractor Quality Control (CQC) officer for the above referenced project. Your duties, responsibilities, and authority are outlined below as well as described in Item 76 of the General Provisions of the Specifications and in Section 01400 titled Quality Control. I wish to emphasize that you are to report directly to me or another officer of the firm and not obey any commands of the job Superintendent or Project Manager.

I. Duties

A. Preparatory inspection to be done before any work or segment of the work.

1. Review contract requirements.
2. Review and approve shop drawings and submittal data.
3. Assure that any required control testing is provided.
4. Perform a physical examination of all material and equipment to confirm that it conforms to the approved shop drawings and submittal data.

4A. Upon inspection of the received material,if any is found which does not comply with the Specification, you shall affix to it a red tag and not permit its' installation. The tag shall list the date of inspection, the reason for rejection and its final disposition.

5. Assure that all required preliminary work has been completed.

B. Initial inspection to be performed as soon as a segment of the work is completed.

1. Coordinate performance of all scheduled tests and witness same.
2. Examine and approve or reject the quality of the work.
3. Review all test results for compliance with the contract documents.
4. Review and advise concerned parties of all omissions or dimensional errors.

119 WEST EIGHTH STREET • P.O. BOX 3007 • JACKSONVILLE, FL. 32206 904/356-3954

C. Follow up inspections to be done daily.
   1. Perform or coordinate any tests or examinations to assure compliance with the Contract requirements.

D. Submit daily reports to the Contracting Officer identifying all jobsite personnel and equipment, material deliveries, weather conditions, work accomplished, inspections and tests conducted including results, nature of defects found, causes for rejection, proposed remedial action, and corrective action taken. The form in the Specifications shall be utilized.

E. Testing
   1. Assure that all required testing is performed, all testing is done by the approved procedures outlined in the Specifications. All tests are done at the proper times, all data is taken properly, all reports are completed and transmitted properly, and any retests are done as required.
   2. Assure that all tests performed by outside firms are properly done, reported and distributed.

F. Submittals
   1. Once the submittals have been reviewed and approved by the management team, the CQC shall review the same and initial them verifying his approval. They will then be returned to the Project Manager who will forward those so designated to the Contracting Officer reviewing the submittals.

II. Responsibilities

A. The primary responsibility will be to assure that all the duties outlined above or in the Specifications are done properly and reported properly.

B. Additional Responsibilities
   1. Attend all project meetings between the Contractors and the Government to inform either of any concerns and to stay abreast of any changes affecting the work.

2. Suggest any additional tests or inspection procedures not already covered by the Specifications that will assure the quality of the completed facility.
3. Work closely with the schedules of the Prime Contractor and any Subcontractors on the site to schedule testing and inspections.
4. Coordinate the schedules of the outside testing firms to assure that they are on site when needed.
5. Review and confirm the attached list of required project testing and assure that the testing is done properly at the appropriate time.
6. You have both the responsibility and the authority to direct the job superintendent to remove defective work and/or material.

Very truly yours,
HARRY PEPPER & ASSOCIATES

Harry Pepper III, P. E.
Vice-President

HP III/gsa

REQUIRED PROJECT TESTS

SECTION 02200 - EARTHWORK

1. Gradation test per ASTM C136 for each type of granular fill material used.

2. Soil material tests for each source and each change in type of material.
   a. Liquid limit per ASTM D423
   b. Plasticity index per ASTM D424
   c. Material finer than No. 200 sieve per ASTM D1140/

3. In place density tests
   a. Random locations per ASTM D1556 or ASTM D2922 and ASTM D3017
   b. Fill, backfill, and subgrade for buildings. One per lift per 1000 square feet.

SECTION 02310 - TREATED TIMBER PILING

1. Test piles - per Specifications - Plan to be submitted for approval by the Piling Subcontractor.

2. Pile logs are to be submitted by the Piling Subcontractor

SECTION 02501 - STORM DRAINAGE SYSTEMS

1. Light test

2. Infiltration and exfiltration test

SECTION 02680 - BITUMINOUS CONCRETE PAVEMENT

1. Thickness of base course and bituminous concrete surface course

2. Bituminous concrete job - mix test

3. In place density testing of base course and bituminous concrete

SECTION 02684 - GRAVEL PAVING

1. Thickness test

2. Density of gravel paving course

SECTION 02713 - EXTERIOR WATER DISTRIBUTION SYSTEM

1. Hydrostatic pressure test per AWWA 600, 50 PSI greater than maximum working pressure but not less than 200 PSI for two hours minimum.

2. Operational testing of all equipment

REQUIRED PROJECT TESTS

SECTION 02734 - ROTARY-DRILLED WATER WELLS

1. Test well
2. Disinfection
3. Flow and draw down test
4. Chemical and bacteriological test

SECTION 03302 - CAST-IN-PLACE CONCRETE

1. Submittal of certified mix test reports
2. Wet concrete samples
   a. Four cylinders per ACI 318
   b. Compressive tests per ACI 318
3. Slump tests per ASTM C143
   a. At beginning of concrete placement and at subsequent intervals
   b. Whenever test cylinders are made
4. Air content test with each day's pour in accordance with ASTM C231
5. Temperature tests
   a. In hot and cold conditions, at frequent intervals, until satisfactory control is established
   b. Whenever test cylinders are made

SECTION 04200 - CONCRETE MASONRY UNIT WORK

1. Submittal of certified material tests
2. Submittal of referenced publication test reports

SECTION 05311 - STEEL ROOF DECKING

1. Straight edge test

SECTION 07220 - ROOF INSULATION

1. Submittal of fire hazard test report
2. Submittal of referenced documents test reports

REQUIRED PROJECT TESTS

SECTION 07511 - AGGREGATE SURFACED BUILT-UP BITUMINOUS ROOFING

1. Drain sump test
2. Built-up roofing cut tests if questionable

SECTION 07512 - SMOOTH SURFACED BITUMINOUS BUILT-UP ROOFING (WITH CONCRETE WEARING SURFACE)

1. Test for fastener resistance to pullout

SECTION 07920 - CAULKING & SEALANTS

1. Submittal of certified test reports

SECTION 08710 - FINISH HARDWARE

1. Submittal of certified test reports

SECTION 09331 - CHEMICAL-RESISTANT QUARRY TILE FLOORING

1. Submittal of certified test reports
   a. Chemical-resistant mortar and grout
   b. Physical requirements and test

SECTION 09910 - PAINTING OF BUILDING

1. Test per the specifications requirements

SECTION 11335 - PUMPING EQUIPMENT

1. Submit certified test data (pump performance curves)
2. Operational testing

SECTION 11336 - WATER TREATMENT EQUIPMENT

1. Submit certified test data
2. Operational testing
3. Water sample analysis
4. Flows and field rates

REQUIRED PROJECT TESTS

SECTION 14320 - MONORAILS WITH ELECTRIC POWER HOIST

1. Certified test reports (non-destructive test of hooks)
2. Load test
3. Operational test

SECTION 15271 - PLANT PIPING

1. Hydrostatic testing to 1 and 1/2 times the working pressure or 200 PSIG whichever is greater
2. Operational test of all equipment
3. Control testing
4. Testing shall be in accordance with AWWA C-600

SECTION 15400 - PLUMBING

1. Operation of equipment
2. Testing per SBCC standard plumbing code

SECTION 15649 - DIESEL ENGINES

1. Certified shop test reports
2. Hydrostatic test
3. Engine load test (field and factory)
4. Piping tests (new fuel oil piping system)
5. Operational testing
6. Field test reports shall be submitted

SECTION 15801 - HEATING, VENTILATING, AND AIR CONDITIONING

1. Operational testing
2. Test all controls through each cycle
3. Test safety controls
4. Hydrostatic testing for piping

REQUIRED PROJECT TESTS

SECTION 16208 - DIESEL ENGINE GENERATOR SET

1. Certified test reports
   a. Diesel engine shop test
   b. Generator shop test
   c. Diesel engine driven electric generator shop test

2. Field operational generating unit test
   a. Diesel generator load test
   b. Speed test
   c. Test of alarms
   d. Simulate power outage
   e. Provide test reports

SECTION 16262 - AUTOMATIC TRANSFER SWITCHES

1. Certified laboratory test reports

2. Test to UL-1008

SECTION 16301 - UNDERGROUND ELECTRICAL WORK

1. Soil-density relationship

2. Insulation resistance test

3. Test for short circuits or accidental grounds distribution conductors 600-volt class.

4. DC high potential tests on all cables rated above 600-volts.

5. Ground rod tests

SECTION 16302 - OVERHEAD ELECTRICAL WORK

1. Ground rod test

2. Test transformers

3. Test devices subject to manual operation

SECTION 16335 - TRANSFORMERS, SUBSTATIONS, AND SWITCHGEARS

1. Operational testing

2. Transformer factory tests per ANSI C57.12.90

3. Field tests per paragraph 3.4 of the specifications

REQUIREED PROJECT TESTS

SECTION 16402 - ELECTRICAL WIRING SYSTEMS

1. Operational testing of equipment
2. Test for short circuits or accidental grounds, all 600 volt wiring
3. Grounding system test

SECTION 16510 - LIGHTING, INTERIOR

1. Operational testing
2. Insulation resistance tests per Section 16402
3. Certified test reports
4. Ground resistance testing

SECTION 16750 - WATER TREATMENT AND DISTRIBUTION TELEMETRY AND CONTROL SYSTEM

1. Operational testing

ACT NUMBER | SHORT TITLE | LOCATION | CONTRACTOR

(B) DESCRIPTION OF ITEM	(C) SPEC. SECTION REQUIRING SUBMITTAL	(D) SUBMITTAL REQUIRE.								(E) CONTR. ACTION		(F) DATE FORWARDED TO CQC	(G) CQC ACTION		(H) DATE RETURNED OR DATE FORWARDED TO ROICC	(I) ROICC ACTION		(J) DATE		(L)	(M)	(N)
		SHOP DRAWINGS	CATALOG DATA	SAMPLE	CERTIFICATION	TEST DATA	CONTR. APPROVAL	CQC APPROVAL	GOVERN'T APPROVAL	INSERT ACTION CODE	DATE OF ACTION		INSERT ACTION CODE	DATE OF ACTION		INSERT ACTION CODE	DATE OF ACTION	RECEIVED FROM ROICC	ANTICIPATED DELIVERY	MATL./EQUIP RECEIVED ON SITE	ACCEPTED BY OWNER	REMARKS CODE

ACTION CODE
- APPROVED AS SUBMITTED
- APPROVED AS NOTED
- DISAPPROVED
- FORWARDED TO CQC FOR ACTION
- FORWARD.-CQC- RECORD PURPOSES
- FORWARDED TO ROICC FOR ACTION
- FORWARD.-ROICC-RECORD PURPOSES
- REVISE AND RESUBMITT
- ADDITIONAL INFO REQUIRED

REMARKS

REMARKS

REMARKS

CONTRACTOR'S QUALITY CONTROL DAILY REPORT (SAMPLE FORMAT)

Complete report in detail daily. If more space is needed, attach additional sheets. CQC REP to date and initial additional sheets. Attach test reports, delivery slips, references and daily report to Inspector Per Clause 93, additional General Provisions Box 7. Indicate contractor or trade responsible for work described in Box 8; Box 9. as applicable; Box 11. Note all deficiencies.

1. CONTRACTOR					2. REPORT NO.
3. CONTRACT NO	SHORT TITLE	LOCATION			4. SHEET NO. OF
5. WEATHER	A.M.	TEMPER-ATURE	A.M.	°F	6. DATE 19
	P.M.		P.M.	°F	

7. CONTRACTOR SUB-CONTRACTOR	8. LOCATION AND DESCRIPTION OF WORK PERFORMED THIS DATE	9. SPEC. SEC/PAR AND/OR DWG. NO.

[illegible]	10 EQUIPMENT AND MATERIAL INCORPORATED IN THE JOB THIS DAY	[illegible] FOR CERTIFICATION	[illegible] APPROVED

SPEC PAR AND/OR DWG. NO.	11 LOCATION AND DESCRIPTION OF DEFICIENCIES (Materials, Equipment and/or Workmanship) ACTION TAKEN OR TO BE TAKEN

SPEC PAR. AND/OR DWG. NO.	12 SAMPLING AND TESTING PERFORMED ONSITE - OFFSITE. FOLLOW WITH REPORT	BY WHOM	RESULTS	
			ACTUAL	REQUIRED

13. DEFICIENCIES CORRECTED THIS DATE	REFERENCE	
	COC REPORT #	[illegible]

14. REMARKS INCLUDE DIRECTIONS RECEIVED FROM NOICC/ANOICC, VISITORS, COMPLIANCE NOTICES RECEIVED; ERRORS AND/OR OMISSION IN P S PERTINENT INFORMATION

15 CONTRACTOR'S CERTIFICATION: ON BEHALF OF THE CONTRACTOR, I CERTIFY THAT THIS REPORT IS COMPLETE AND CORRECT AND ALL EQUIPMENT AND MATERIAL USED AND WORK PERFORMED DURING THIS REPORTING PERIOD ARE IN COMPLIANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS, TO THE BEST OF MY KNOWLEDGE, EXCEPT AS NOTED ABOVE

Authorized COC Rep At Site *Date*

Surti and Associates

ENGINEERING - SURVEYING - TESTING

217 HENDERSON DRIVE
JACKSONVILLE, N. C. 28540
(919) 455-3564

January 25, 1985

Jim Schock
Harry Pepper Associates
119 West 8th Street
Jacksonville, Florida 32206

RE: Holcum Blvd. Water Treatment Plant Expansion
Camp Lejeune, North Carolina
N-62470-81-C-1644

Dear Sirs:

Surti and Associates is pleased to submit this proposal for providing testing services at the above mentioned project.

As requested, the following synopsis of the firm and its activities and a proposal for testing and inspection services are provided.

As you know, our firm can offer you a comprehensive range of testing soil, concrete, materials and inspection. These testing services are performed by qualified technicians under the direct supervision of Mr. Surti, who is a Registered Professional Engineer in the State of North Carolina.

Since the formation of our company in 1978, we have worked on numerous projects. Past projects including Unaccompained Enlisted Personell Housing, Camp Lejeune; Maintenance Shop, Camp Lejeune; J.C. Penneys, Jacksonville, NC; etc. Attached is a list of projects we are presently working on.

Our firm was formed by M.L. Surti, who is a Registered Professional Engineer and a Registered Land Surveyor in the State of North Carolina. He has a B.S. Degree in Civil Engineering and has worked as a Project Engineer for more than twenty-one (21) years. He has worked in very responsible positions in the field of construction, and quality control and design.

Mr. Surti worked with Contractors and Engineers Services, Inc. of Goldsboro for six (6) and one-half years and obtained valuable experience in the field of testing and inspection.

Our laboratory is inspected every two (2) years by a representative of the Cement and Concrete Reference Laboratory, National Bureau of Standards, Washington, D.C. The last inspection was on January 14, 1985. The inspection number is J-978. Mr. Surti is also a member in good standing with the American Society for Testing and Materials (ASTM).

Again, we appreciate the opportunity to be of services to your firm. If you have any questions or comments, please contact me and I will be glad to meet with you to discuss the details.

Sincerely,

SURTI AND ASSOCIATES

M.L. Surti, P.E.

MLS/wrf

ENCLOSURES

CONTRACTORS AS OF JANUARY 1, 1985

Andrews & Parrish P.O. Box 990 Ashland, Va. 23005	Electrical Communication Maintenance Shop/CLNC	N-62470-81-C-1643
Bailey & Associates P.O. Box 400 Jacksonville, NC	Ashley Park Condo's JVNC	
Blizzard Const. P.O. Box 372 Beulaville, NC 28518	Expantion to Bldg TT43 CLNC	N-62470-80-C-5838
Braswell Equipment Co. P.O. Box 1299 Wilson, NC 27893	Maintenance Shop CLNC	N-62470-80-C-1132
But & Head Corp. P.O. Box 29290 Columbus, Ohio 43229	Aircraft Acoustical Enclosure Cherry Point	N-62470
"C" Construction Co. P.O. Box 159 Jacksonville, NC 28540	Unaccompained Enlisted Personell Housing CLCN	N-62470-82-C-2309
Carpenter Const. P.O. Box 2005 New Bern, NC 28560	Stone Bridge Landing Havelock	12488
Clement & Johnson P.O. Box 40 New Bern, NC 28560	Repairs to Parking Apron CLNC	N-62470-82-C-2307
Colonial Constractors 3332 Neuse Blvd. New Bern, NC 28560	Colonial Square Apts. New Bern	222
Comanco Inc. P.O. Box 8714 CLNC 28542	Maintenance Shop CLNC	N-62470-81-C-1132
	Vehicle Take-Off Lift Pad Cherry Point	N-62470-84-C-4331
	Hadnot Point Local Exchange CLNC	05-82-2387
	Vehicle Maintenance Cherry Point	N-62470-81-C-1027
	Operations Maintenance Fac. Cherry Point	N-62470-80-C-0298
Community Heating & Plumbing P.O. Box 8509 Greensboro, NC 27419	Replace Exterior Steam Cherry Point	N-62470-81-C-1345

J.W. Cook & Sons P.O. Box 39 Whiteville, NC 28472	Radar Air Traffic Control CLNC	N-62470-81-C-1641
	Amphibious Veh. Maint. Shop CLNC	N-62470-81-C-1642
	Combat Vehicle Maint. CLNC	N-62470-81-C-1639
	Fire Training Facility CLNC	N-62470-82-C-2450
	Combat Vehicle Maint CLNC	N-62470-81-C-1131
James E. Cox	Modification to Loading Dock Cherry Point	N-62470-81-C-5217
	Drum Storage & Oil Spill Cherry Point	N-62470-82-C-2576
C.E. Crowell Contractors 4010 Oleander Drive Wilmington, NC 28408	Car Wash JVNC	
Danac Inc. 649 Onslow Road Cherry Point, NC 28533	Lanham Housing Cherry Point	N-62470-82-C-3082
Dickerson Const. P.O. Box 4849 Wilmington, NC 28406	J.C. Penneys JVNC	
	Combat Vehicle Maint CLNC	N-62470-82-C-1639
Bobby Dixon & Assoc P.O. Box 3000 Sneads Ferry, NC	St. Regist Condo's North Topsail Shores	
East Cost Const. P.O. Box 5004 Jacksonville, NC 28540	Lime Storage Yank NRAS	N-62470-82-C-2161
Forcum-Lannon Assoc. P.O. Box 768 Dyersburg, Tenn. 38024	Shoney's Restaurant JVNC/Wilmington	
Humphrey Heating & Roofing 2423 N Marine Blvd. Jacksonville, NC 28540	Flammable Storage Building Cherry Point	N-62470-83-C-5035
	Upgrade & Const. Various Structures	N-62470-83-C-5744
Jacobs Builders 464 Frances St, Jacksonville, NC 28540	Rapid Refuler Repairs NRAS	N-62470-83-C-5913
Laughlin & Sutton 2210 Church St. Greensboro, NC 27405	Waste Water Treatment Ct, JVNC	110

Maitland Brothers Company 1235 Hanover Pike Little Town, Pa. 17340	Replace Storm Drain Cilvert NRAS	N-62470-84-C-4451
McCotter Const. P.O. Box 7287 Jacksonville, NC 28540	Addition to Pk Lot HP-100	N-62470-84-C-7884
McCrory Const. P.O. Box 145 Columnia, S.C. 29202	J.C. Penneys JVNC	
Metroplex Inc. P.O. Box 7232 Jacksonville, NC 28540	Repairs to Railroad CLNC	N-62470-82-C-2559
Morton Const. P.O. Box 7088 Jacksonville, NC 28540	Eubanks Phase II Popkin Warehouse	
R.G. Muckleroy 2519 N. Stalling St. Nacogdoches, Texas 75961	Repairs to Runway Erosion Cherry Point	N-62470-83-C-5776
Northeast Const. P.O. Box 8398 CLNC	Upgrade BSQ NRAS	N-62470-82-C-4669
Pac-Map Corp. P.O. Box 19567 Greensboro, NC 27419	Enlisted Dining Facility CLNC	
Tommy Pollard 1017 Richlands Hwy Jacksonville, NC	Pollards IGA JVNC	
Quality Sprinkler Co. 10501 Old Concord Rd. Charlotte, NC 28213	USO JVNC	N-62470-82-C-2057
R & W Construction 620 Richlands Hwy Jacksonville, NC 28540	Replace JP 5 Fuel Lines NRAS	N-62470-82-C-5914
Ratley Construction P.O. Box 609 Hope Mills, NC 28348	Bo Jangles Restaurant JVNC	
Ronin Corp. P.O. Box 59289 Birmingham, Ala. 35259	Addition to Brynn Marr Hospital Jacksonville, NC	

D.J. Rose Const.
P.O. Dr. 2426
Rocky Mount, NC 27801

Carolina Power & Light
JVNC

Royal State Const.
P.O. Box 876
Wilmington, NC

Unaccompained Enlisted Personell Housing
N-62470-82-C-2244
CJNC

Trader Construction
P.O. Box 1578
New Bern, NC

Avonic Shop Cherry Point	N-62470-84-C-2030
Public Works Building New Bern	N-62470-81-C-1766
Incinarator Bldg Cherry Point	N-62470-82-C-4486
Traffic Access Road Cherry Point	N-62470-80-C-4673

Tyger Const.
P.O. Box 5684
Spartanburg, S.C.

Unaccompained Enlisted Personell Housing
CLNC N-62470-81-C-1015

Viking Realty
468-C Western Blvd.
Jacksonville, NC 28540

Pebble Beach
Emerald Isle, NC

Paul Waff Assoc.
P.O. Box 237
Edenton, NC

Repairs to Railroad N-62470-82-C-2559
CLNC

Westminister Company
P.O. Box 1167
Jacksonville, NC 28540

Unaccompained Enlisted Personell Housing
CJNC N-62470-82-C-2244

Wilson Construction
P.O. Box 8446
CLNC 28542

Utility Improvements N-62470-81-C-1478
CLNC

Wysco Contractors
P.O. Box 886
Morehead City, NC

Utilities & Instruction Facility N-62470-82-C-4675
CLNC

Zima Const.
2436 Onslow Drive
Jacksonville, NC 28540

Replace Fuel Storage Tank N-62470-82-C-4678
CJNC

Barrus Construction
P.O. Box 905
Jacksonville, NC 28540

Railroad Crossing Cherry Point	N-62470-83-C-5718
Base Wide Maintenance of Roads CLNC	N-62470-82-C-2406
Asphalt Maintenance Cherry Point	N-62470-84-C-5100
Fleet Training Cherry Point	N-62470-83-C-3117
Pavement Overlay Cherry Point	N-62470-84-C-5014
Access Road & Storm Drainage Atlantic	N-62470-82-C-5015
Flight Simulator Cherry Point	N-62470-82-C-1439

And 20 other jobs for Barrus

TEST AND INSPECTION EQUIPMENT:

SOIL AND STONE TEST-	Nuclear Portaprobe MC 2 Campbell Pacific Nuclear	ASTM 2922
CONCRETE CASTING -	Slump Cone, Base and Molds Forney	ASTM-C 143, 192, 249
CURING CONCRETE -	a] Curing Tank b] Water Heater	
COMPRESSION STRENGTH-	Compression Testing Machine Forney - FT-0040-DR	ASTM-C 39 and 683
AIR TEST -	Air Entrainment Meter Forney	ASTM-C 231
SIEVE ANALYSIS -	a] U. S. A. Standard Testing Sieves b] Scales (Ohaus) c] Screen Shaker	
PROCTOR TEST -	a] Standard (4" Mold) and Modified (6" Mold) Compaction Mold b] 5.5 lb. and 10 lb. Compaction Hammer c] Scales, (Ohaus, Solution Balances and Triple Beam) d] Bench Ovens (Despatch) e] Pans	ASTM D-1558, D-559, D-560 D-698 and D-1557
ASPHALT TESTING -	Extraction Test a] Centrifuge Extractor (Soil) b] Sieves c] Sieve Shaker d] Scales (Ohaus)	ASTM D-2172, AASHTO T-58, T-164
MARSHALL STABILITY AND FLOW -	a] Asphalt Test Press (Forney) b] Universal Sample Ejector c] Compaction Pedestal d] Compaction Hammer (101B)	ASTM D-1559
INSPECTION OF SITE AND STEEL STRUCTURE-	Proto Torque Wrench (100-600 Foot Pounds)	

SCS

SOUTHERN CALIBRATION & SERVICE
P. O. BOX 13308 / ATLANTA, GEORGIA 30376

Certificate of Calibration

This is to certify That *the following described machine has been calibrated in accordance with ASTM-E4 and found to be within a tolerance of* 1 %.

Location: Surti Associates
217 Henderson Drive
Jacksonville, N.C. 28540

Machine: Forney
(Model) FT40DR
(Ser. No.) 79011

Machine Range: 20,000 to 200,000 lbs.

MACHINE READING	RING READING	MACHINE ERROR LB.	MACHINE ERROR %	RING CODE
20,000	19,842	+158	.79	D
40,000	39,891	+109	.27	D
80,000	79,833	+167	.20	D
120,000	120,825	-825	.68	D
160,000	161,135	-1135	.70	D
200,000	201,753	-1753	.86	D

Machine Range: 3,000 to 30,000 lbs.

MACHINE READING	RING READING	MACHINE ERROR LB.	MACHINE ERROR %	RING CODE
3,000	3,014	-14	.46	I
6,000	5,958	+42	.70	I
12,000	11,914	+86	.72	C
18,000	17,895	+105	.58	C
24,000	23,862	+138	.57	C
30,000	29,855	+145	.48	C

Machine Range:

MACHINE READING	RING READING	MACHINE ERROR LB.	MACHINE ERROR %	RING CODE

Machine Range:

MACHINE READING	RING READING	MACHINE ERROR LB.	MACHINE ERROR %	RING CODE

CALIBRATING APPARATUS

P. R. CODE	SERIAL NO.	CAPACITY	CALIBRATION LAB.	CLASS "A" VERIFICATION VALUE	CALIBRATION DATE	MANUFACTURER
I	3668E	10,000	N.S.T.L.	872.0 lb.f.	6-27-83	Morehouse
C	3007C	60,000	N.S.T.L.	6,160 lb.f.	3-26-83	Morehouse
D	3642A	200,000	N.S.T.L.	16,400 lb.f.	3-24-82	Morehouse

VERIFICATION METHOD USED: Elastic Calibration Device ☒ Standard Weights ☐ Equal-Arm Balance and Weights ☐

LOAD VALUES CORRECTED FOR TEMP. OF 74 °F. ROOM TEMP. 74 °F.

Method of verification and pertinent data is in accordance with A.S.T.M. Specification E4. The testing device(s) used for this calibration have been verified per A.S.T.M. Specification E74 and are directly traceable to the U.S. Bureau of Standards.

Date of Calibration Sept. 28, 1983

By Kevin D. Smith
Kevin Smith
Service Representative

Certificate Of Completion

This is to certify that M. L. SURTI has completed the basic training course on Radiation Safety and Use of Nuclear Soil Gauges. held this 1st day of FEBRUARY 1980. held at SURTI & ASSOC. City of JACKSONVILLE State of NORTH CAROLINA by Campbell Pacific Nuclear Corporation.

W. D. Neill
INSTRUCTOR

W. D. Neill
RADIATION SAFETY OFFICER

Certificate Of Completion

This is to certify that SCOTT DAVID WIESE has completed the basic training course on Radiation Safety and Use of Nuclear Soil Gauges, held this 1st day of FEBRUARY 1980, held at SURTI & ASSOC. City of JACKSONVILLE State of NORTH CAROLINA by Campbell Pacific Nuclear Corporation.

INSTRUCTOR

RADIATION SAFETY OFFICER

R E S U M E

M. L. Surti d/b/a Surti & Associates
217 Henderson Drive
Jacksonville, North Carolina 28540
Telephone (919) 455-3564

OBJECTIVE:

To associate with quality and growth companies in a responsible position in construction management, supervision, mechanical co-ordination, field erection, project scheduling and engineering. Firms and position requiring motivation and the ability to translate the needs of an organization into effective programs.

EDUCATION:

New Era High School
Baroda, Gujarat, India
SSC Degree

Tech and Engineering College
M. S. University of Baroda
Baroda, Gujarat, India
B. S. (Civil) Degree

Courses - B. S. Civil Degree

Theory of Structure	Structural Drawing & Design
Hydraulics & Hyd. Machinery	Construction
Soil Mechanics & Foundation	Public Health Engineering
Irrigation Engineering	Quantity Surveying & Costing
Surveying	Highway Engineering

PROFESSIONAL EXPERIENCE: Executive Engineer's Office, Gujarat Housing Board

1968 - 1971 — Junior Engineer: Designed and supervised the construction of residential buildings and roads, prepared the cost estimates and drawings.

1967 - 1968 — Shri. A. B. Gianchandani, Engineers & Contractors

Site Engineer: Supervised the construction of sheds and buildings and road construction.

1965 - 1966 — Kier-Sentec (Kier Ltd: London, Sentab, Stockholm, Engineering Construction Corporation

Civil Engineer: Project Survey; prepared detailed drawings; road projects and construction; supervised the underground Diaphram R.C.C. wall for Dock Expansion Scheme of Bombay Port Trust.

PROFESSIONAL EXPERIENCE:

CONT'D 1965 National Asphalt Products & Construction Company

Site Supervisor: Did project survey for earthwork and road work; prepared the drawings; laid pipes, construction of road and office buildings of chemical plants for The Lummus Co., (USA) at Thana, India.

1972 - 1978 Contractors and Engineers Services, Inc.

Engineer: Engineer for Foundation and Structural projects. Designed water and wastewater systems; soil, concrete, materials testing and inspections.

SURTI & ASSOCIATES, Jacksonville, North Carolina

1979 - Present Professional Engineer and Surveyor:

In 1978 I formed my own company and we are currently engaged in offering our clients a comprehensive range of testing soil, concrete, materials and inspection; i. e., pile, structural, torquing and welds.

Our firm also offers a complete Quality Control organization trained to perform all requirement of the Contractors Quality Control (CQC) Program.

We have worked on numerous projects since the formation of our company and you will find a list attached of the most recent one.

RADIATION PROTECTION SECTION
DIVISION OF FACILITY SERVICES
N. C. DEPARTMENT OF HUMAN RESOURCES
RADIOACTIVE MATERIAL LICENSE

Pursuant to North Carolina Regulations for Protection Against Radiation and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import radioactive materials listed below; and use such radioactive material for the purpose(s) and at the place(s) designated below. This License is subject to all applicable rules and regulations of the North Carolina Department of Human Resources now or hereafter in effect and to any conditions specified below.

Licensee

1. Name: Surti and Associates

2. Address: 217 Henderson Drive
Jacksonville, NC 28540

AMENDMENT NO. 7 AMENDS IN ITS ENTIRETY

3. License Number: 067-615-1

4. Expiration Date: February 28, 1989

5. File No.:

6. Radioactive Material (element and mass number)	7. Chemical and/or Physical Form	8. Maximum Amount of Radioactivity and/or Quantity of Radioactive Material which Licensee may Possess at any one time.
A. Cesium 137	A. Sealed Sources	A. 30 millicuries total (3 sources of 10 millicuries each)
B. Americium 241: Beryllium	B. Sealed Sources	B. 150 millicuries total (3 sources of 50 millicuries each)

9. Authorized Use

A. & B. To be used in Campbell Pacific Nuclear Corporation Model MC Series soil/moisture density gauges.

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.

11. Radioactive material may be used at temporary jobsites of the licensee anywhere in North Carolina. This condition does not prohibit use in the United States where the United States Nuclear Regulatory Commission maintains jurisdiction for regulating the use of radioactive material, nor in Agreement States, under reciprocity procedures which may be established by the Nuclear Regulatory Commission or the respective Agreement States.

12. The licensee shall comply with the provisions of 10 NCAC 3G .2500, "Standards for Protection Against Radiation, and 10 NCAC 3G .3100, "Notices, Instructions, Reports and Inspections". (The North Carolina Regulations for Protection Against Radiation are contained in 10 NCAC 3G.)

(License continued on Page 2)

RADIATION PROTECTION SECTION
DIVISION OF FACILITY SERVICES
N. C. DEPARTMENT OF HUMAN RESOURCES
RADIOACTIVE MATERIAL LICENSE

License No. 067-615-1

Supplementary Sheet

Conditions (continued):

13. Radioactive material shall be used by M. L. Surti or Scott D. Wiese.

14A. Each sealed source containing radioactive material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, the sealed source shall not be put into use until tested.

B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Agency.

C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Agency regulations. A report shall be filed within five (5) days of the test with the Radiation Protection Section, Division of Facility Services, Department of Human Resources, P. O. Box 12200, Raleigh, North Carolina 27605, describing the equipment involved, the test results and the corrective action taken.

Tests for leakage and/or contamination shall be performed by persons specifically authorized by the Agency to perform such services.

15. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.

16. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7, and 8 of this license in accordance with statements, representations and procedures contained in application dated January 12, 1984 and signed by M. L. Surti, Owner.

Cecil B. Brown

Date of Issuance: January 20, 1984

For - Dayne H. Brown
Chief, Radiation Protection Section

Form No. DFS-5211 (Rev. 7/78)

HARRY PEPPER & ASSOCIATES, INC.
ENGINEERING CONTRACTORS

SCHEDULE OF INSPECTIONS

119 WEST EIGHTH STREET • P.O. BOX 3007 • JACKSONVILLE, FL. 32206 904/356-3954

SCHEDULE OF INSPECTIONS

01560 Environmental Protection

1. The CQC shall review the contractors Environmental Plan and the specifications and during his normal tours through the jobsite inspect the site to insure that the Environmental requirements are being complied with.

2. The administration of the plan will be the responsibility of the Project Superintendent while the inspection for compliance by the CQC will be as follows:

   a. Insure that the Contractor does not damage any trees or shrubs in the area.

   b. Insure that the adjacent water resources receive no oily or hazardous substances from the Contractor operations.

   c. Insure that the Contractor does not interfere with or disturb the fish and wildlife of the area.

   d. Insure that erosion and sediment control measures are taken to control dust and soil erosion from rain.

   e. Insure that all degradable debris will be disposed of at off-station sites that comply with local requirements. Loads will be wetted and covered before leaving the site.

   f. Insure that adequate and proper sanitary chemical toilets are provided and cleaned regularly and that pests and offensive odors are controlled.

   g. Insure that chemical wastes are disposed of properly

   h. Inspect all equipment on arrival at jobsite to assure acceptable noise level.

   i. Inspect and insure all river crossings are in accordance with applicable permits

02050 Demolition and Removal

1. Insure that the adjacent building and vegetation are protected from the contractors' demolition activities and insure that the building interiors and all materials are protected from the weather.

2. Inspect the contractors' operations near site utilities to insure they are done without damage to the utilities or if there is, it is minimal and repaired quickly.

3. Inspect the contractors' demolition procedures to insure that all items are removed safely and properly disposed of. Inspect the area after completion to assure it has been properly returned to its original degree of cleanliness.

4. Insure proper disposition of existing equipment to be removed.

5. Insure all demolition work is done in conjunction with an approved demolition plan to be submitted later.

02200 Earthwork

1. The site will be staked out by the Contractor and checked by the CQC.

2. All usable topsoil will be stockpiled.

3. Inspect all soil tests performed by Surti & Associates. If unsuitable soil is discovered under footings, notify the ROICC immediately.

4. Job inspections will include:

   a. Check all fill and backfill operations.

   b. Check all lines and grades and dimensions of excavations.

   c. Check adequacy of compaction equipment.

5. Coordinate all testing requirements.

6. Assure the project site is properly dewatered

7. Inspect borrow materials to assure it is consistent with that approved by the Government.

02205 Underdrain System

1. Inspect delivered material against the approved submittals.

2. Inspect the work including lines of grade and proper installation of material

02210 Reinforcement Fabric

1. Inspect material against the approved submittals.

2. Inspect material installation.

02250 Soil Treatment for Termite Control

1. All material delivered to the site shall be checked by the CQC Rep. to insure that they are properly labeled and that manufacturer's instructions are complied with.

2. The Contracting Officer will be notified in advance of all soil treatment applications and work will not proceed except in his presence.

3. The CQC Rep. shall see that the areas treated are protected until concrete is placed.

02310 Treated Timber Piling

1. Inspect piling equipment and procedured to assure they are per the approved submittals.

2. Check piling layout and cut-off elevations.

3. Inspect all materials used in the piling for conformance with the contract documents.

4. Maintain all pile logs.

5. Inspect pile testing and equipment to insure all testing is done properly.

02680 Bituminous Concrete Pavement

1. The CQC Rep. will check bituminous paving and base operations to assure that approved materials are utilized, and temperature of mix is within job limitations.

2. The CQC Rep. shall check daily plant inspection reports and when necessary make periodic checks of plant and testing operations.

3. The CQC Rep. will check rolling equipment for compliance.

02501 Storm Drainage System

1. Inspect pipe, manholes and accessories for conformance and to assure they are not damaged in shipping and handling.

2. Check line and grade of pipe.

3. Inspect backfilling operations to assure pipelines are properly completed.

02444 Fence, Chain-Link

1. Inspect all fence materials before installation to assure it complies with the approved shop drawings.

2. Inspect the area before the fence is installed and obscure the installation procedure to assure compliance.

02311 Pipeline Casing Under Railroad and Pavement

1. Inspect material for compliance with the approved submittals.

2. Inspect installation of casing and elevation for compliance with the drawings and specifications.

02684 Gravel Paving

1. Inspect gravel material for compliance with the approved submittal.

2. Inspect installation of gravel paving including proper alignment.

3. Check for proper thickness.

02690 Pavement Removal and Replacement

1. Insure pavement material to be demolished is disposed of properly.

2. Insure pavement patches are installed properly.

3. Check base material.

02713 Exterior Water Distribution System

1. Inspect pipe, manholes and accessories for conformance and to assure they are not damaged in shipping and handling.

2. Check line and grade of pipe.

3. Inspect backfilling operations to assure pipelines are properly completed.

4. Inspect test procedures and record test results.

02734 Rotary-Drilled Water Wells

1. Assure all material complies with the approved submittals.

2. Monitor all testing and well installation.

3. Inspect all environmental protection procedures installed by the subcontractor.

4. Review all test reports.

02821 Turf

1. The CQC Rep. will check deliveries and storage of seed and fertilizers and verify quantities installed.

2. Check preparation and finish grades of lawn areas.

3. Check application of sod seeding operations and assure that areas are properly watered as required.

03302 Cast-In-Place Concrete

1. Inspect all areas to receive concrete for proper grade, compaction, forms, reinforcements, and required embedded items.

2. Check delivery tickets, jobsite testing, placing procedures, and finishing and curing procedures.

3. Check reinforcements for proper amount, size, and shape as well as spacing and supports.

4. Check waterstops for proper location and type.

5. Assure all sampling and testing is done properly.

04200 Concrete Masonry Unit Work

1. The CQC Rep. will check all materials delivered to the jobsite for compliance and proper storage.

2. Check batching of mortar.

3. The CQC Rep. will monitor the installation of a sample masonry panel and see that all completed work matches the approved panel for material and workmanship.

4. The CQC Rep. shall coordinate incorporation of work of related trades i.e. mechanical and electrical.

5. Assure that all masonry work and associated items are cleaned properly and that all the work areas are cleaned properly after the masonry work.

6. Assure that all control joints are located properly and that all imbedded items are installed.

7. Insure that all walls are properly aligned.

05210 Steel Joists

1. The CQC Rep. will check joists on delivery for damage and proper storage at job site.

2. Check erection and bracing procedures.

3. Check for necessity for touch up after erection.

4. Coordinate access space and fixture-placing requirements of other trades.

05311 Steel Roof Decking

1. Inspect material after arrival for compliance, possible damage, and storage.

2. Inspect support structure prior to installation.

3. Inspect installation procedure for compliance and verify welders are properly qualified.

4. Inspect for flatness after installation.

05500 Metal Fabrications

1. Check all material for compliance with approved shop drawings.

2. Check all materials for damage from shipping and handling and assure that they are adequately stored.

3. Inspect areas prior to installation to assure they can support the metal items.

4. Inspect the finishes for compliance with the specifications or approved shop drawings.

06201 Carpentry and Woodwork

1. The CQC shall check all lumber delivered to the jobsite for grade marking requirements.

2. Check installation for proper fastenings.

3. See that all blocking is installed necessary for the installation of fixture or equipment furnished by other trades.

07220 Roof Insulation

1. Insure material is delivered undamaged and is stored properly.

2. Inspect surfaces just prior to installation to assure all defects and inaccuracies in the roof deck have been corrected.

3. Check the Contractor's installation procedures to assure they conform to the specifications.

4. Insure that after installation the insulation is not damaged before the built-up roofing is applied.

07511 Built-Up Bituminous Roofing

1. Attend the Pre-Roofing Conference.

2. The CQC Rep. shall check all materials delivered to the jobsite for compliance and storage.

3. Check type of asphalt being delivered and make regular checks to see that asphalt is not over heated.

4. See that felts are applied evenly, without wrinkles and that all plies are firmly bended.

5. See that roof surfaces are not overloaded and that completed roof is protected.

6. Supervise taking of cut tests if required and roof drain sump tests.

7. Approve and install roof information card.

8. Assure all penetrations are through the roof and in the proper location and that all the nails have been installed properly.

07512 Smooth Surfaced Bituminous Built-Up Roofing (With Concrete Wearing Surface)

1. Inspect material to assure compliance with the specification.

2. Insure roof drains properly.

3. Insure proper protective covering is used.

4. Same as for 07511, Built-Up Bituminous Roofing

07600 Flashing and Sheet Metal

1. The CQC Rep. will check all material incorporated in the work for compliance, proper installation and fastening.

2. See that dissimalar metals are isolated.

3. Check provision for expansion.

07800 Skylights

1. The CQC Rep. will inspect material upon arrival to the jobsite for damage and for compliance with the specifications.

2. Inspect installation of skylights

3. Check all sealants and caulking.

07920 Calking and Sealants

1. The CQC Rep. shall make inspection of all joints to be calked for proper cleaning, primer and backing material.

2. Check printed manufacturer's instructions.

3. See that adjacent surfaces are protected and smears removed immediately.

08110 Steel Doors and Frames

1. The CQC Rep. shall check all shipments to jobsite for damage and for proper storage and protection.

2. See that frames have been reinforced, drilled, and tapped to receive scheduled hardware.

3. Check for approved anchors and fasteners.

4. See that frames are accurately positioned and plumbed.

08520 Aluminum Windows

1. The CQC Rep. shall check all shipments to the jobsite for damage, proper storage and protection of material.

2. Check for approved anchors, and fasteners.

3. Inspect final installation.

4. See that the frames are accurately positioned and plumbed.

08710 Finish Hardware

1. The CQC Rep. shall check all finish hardware delivered to the jobsite for compliance and see that it is properly tagged and stored prior to installation.

2. Check the proper location, installation and adjustment of hardware items.

3. See that keys are turned over to government representative.

08800 Glazing

1. The CQC Rep. shall check identification labels of glass delivered to the jobsite.

2. Check installations for compliance with contract and manufacturer's printed instructions.

3. Make final inspection to insure that broken glass or imperfect glass is replaced and all glass cleaned.

09331 Chemical-Resistant Quarry Tile Flooring

1. The CQC Rep. shall inspect all materials when delivered to the jobsite for compliance and see that materials are stored so as to prevent damage.

2. Inspect installation of quarry tile flooring.

3. See that final flooring is cleaned and protected from damage.

09910 Painting of Buildings (Field Painting)

1. The CQC Rep. shall coordinate painting requirements with the other trades, specifically regarding pre-treatment and painting of mechanical piping and identification requirements.

2. Make inspections necessary to assure that thinners are used sparingly, that proper number of coats are applied and that preceeding coats are dry before next coat is applied.

3. Check all surfaces for cleanliness, dryness, and proper preparation for painting.

4. Check all colors and labeling.

5. Assure calking and sealing are completed first.

6. Assure floor coatings are stored and installed properly on clean, properly prepared surfaces.

10201 Metal Wall Louvers

1. Assure materials have been delivered undamaged, are of the proper color, and are stored properly.

2. Check to be sure material is installed per manufacturer's recommendations with the proper fasteners.

3. Check to assure all materials are as specified.

11335 Pumping Equipment

1. Inspect material after delivery to assure compliance to the specifications, proper storage and handling, and check for damage.

2. Inspect installation of equipment.

3. Witness all operational testing of equipment.

11336 Water Treatment Equipment

1. Inspect all material after delivery to assure compliance with the specification, proper storage and handling, and check for damage.

2. Inspect all equipment installation.

3. Witness all operational testing.

4. Inspect filter, water softener, lime solution pumps, chlorine system and acid system.

5. Provide water samples for analysis.

14320 Monorails with Electric Power Hoist

1. Inspect materials upon delivery for possible damage and assure they are properly stored.

2. Inspect installation operations to assure no undue stress is placed on the building structure and that all connections to the structure are sound.

3. Check locations and sizes of hoists to assure they conform.

4. Check the operation of the hoisting system.

152510 Insulation of Mechanical Systems

1. Inspect material as it is delivered to assure it conforms and has not been tampered with or damaged.

2. Inspect surfaces before insulation is applied to assure they are properly prepared.

3. Observe installation procedures and techniques for conformance and appearance.

4. Check to assure all hydrostatic testing is complete prior to beginning insulation work.

15271 Plant Piping

1. Inspect all material for compliance with approved drawings and submittals.

2. Inspect installation proceedures and final installation.

3. Witness all testing.

15400 Plumbing

1. Inspect equipment and material as it is delivered to assure it conforms to the specifications or approved shop drawings and is properly stored.

2. Coordinate layout of fixtures and piping runs, coordinate activities with other trades, and assure material is properly installed and tested.

3. Inspect final operation of entire plumbing system.

15649 Diesel Engines

1. Inspect material as it is delivered for possible damage and conformance with the contract drawings, specifications and approved shop drawing.

2. Check installation of equipment and alinement.

3. Witness all operational testing.

15801 Heating, Ventilating, and Air Conditioning

1. Inspect materials as they are delivered for proper size and conformance with the approved submittals and assure they are stored properly.

2. Coordinate locations of equipment and pipe routes.

3. Assure system is clean before testing and start up and inspect operation of all accessories.

4. Inspect supporting system for adequacy while material is being installed.

5. Inspect electrical connections before start up.

6. Check system operation.

7. Check temperature control system.

16208 Diesel Engine-Generator Set

1. Inspect equipment as it is delivered to assure compliance with the specifications, check for damage and assure proper storage.

2. Inspect final installation.

3. Witness all testing.

16301 Underground Electrical Work

1. Inspect material to assure conformance, that it has not been damaged and has been stored properly.

2. Observe and record all field testing.

3. Coordinate routing of buried conduits and assure it is installed properly.

4. Observe conduit just prior to encasement to assure it is supported properly and that the trench will allow the proper amount of encasement.

5. Assure the warning tape is installed.

6. Observe cable installation to assure no damage is done.

7. Check all cable connections and splices to assure they have been properly performed.

8. Observe and record all field testing.

9. Coordinate with other trades.

16302 Overhead Electrical Work

1. Inspect material to assure conformance to the specifications and that there has been no damage to the material.

2. Inspect all installation including guys, insulators, poles, crossarms and conductors, etc.

3. Witness operational testing.

16335 Transformers, Substations and Switchgear, Exterior

1. Inspect material as it is delivered to assure conformance, that it has not been damaged and that it is stored properly.

2. Observe Contractor's installation and handling to assure conformance.

3. Inspect all electrical connections for conformance prior to testing.

4. Observe and record all field tests and inspections.

5. Perform all follow-up verifications and performance checks.

16402 Electrical Wiring Systems

1. Inspect all materials for conformance, check for damage, and assure they are stored properly.

2. Coordinate and inspect conduit and wiring runs to assure the required number are installed and all connections are properly made.

3. Review and document all wiring size and color coding.

4. Assure all equipment and devices are properly located and installed.

5. Check all electrical connections before start-up.

6. Observe and record all field testing.

16510 Lighting Interior

1. Inspect all materials for conformance, check for damage, and assure they are stored properly.

2. Coordinate location and mounting of all lighting fixtures.

3. Check Contractor during installation to assure material is properly supported.

4. Observe and record all field testing.

16750 Water Treatment and Distribution Telemetry and Control System

1. Inspct all materials for conformance, check for damage, and assure they are stored properly.

2. Coordinate location of devices and conduit runs.

3. Check all electrical connections for conformance, before start-up.

4. Observe and record all field and performance testing.

ADDENDUM I

The following test forms will be used by the CQC Representative to track material and equipment testing on this project. Additional forms as required to achieve the CQC objective will be added as needed.

CONCRETE PLACEMENT REPORT

Q.C. INSPECTION:

LINES OF GRADE _____

COMPACTION _____

ANCHOR BOLTS _____

REINFORCEMENT _____

ELEC. / GROUNDS _____

PIPING _____

FORMS _____

STRUC. STEEL _____

OTHER:

_____

_____

PLACEMENT Nº _____

LOCATION _____

DATE: _____ TIME _____

CONCRETE MIX _____

FINISH _____

METHOD OF CURING _____

QUANITY _____ CU. YDS.

REMARKS:

_____

_____

_____

_____

_____

TESTING LABORATORY:

SLUMP TEST _____ CONC. TEMP. _____

AIR CONTENT _____

CYLINDER STRENGHT:

7 DAY _____ PSI

28 DAY _____ PSI

HYDRO TESTING

1. LINE IDENTIFICATION: _____

_____

_____

2 FROM: _____ TO: _____

3. DATE: _____ TIME: _____

4. LENGTH OF TIME TESTED: _____

5. WORKING PRESSURE: _____

6. TEST PRESSURE: _____

7. PASS ( ) FAIL ( )

WITNESSED _____ APPROVED _____

SPEC. 02501

FEILD TEST REPORT:

FROM MH.#_____ TO MH.# _____

Light test ------ Passed ( ) Failed ( )

Dia of Pipe _____

Calculated Infiltration:

Exfiltration:

Allowable Limit: 500 gallons/inch of diameter/day/mile.

SPEC. 14320

TEST DATA

Hoist identification _____

Check limit switch _____

Check stop botton _____

Operate at no load _____

Test all controls including safety devices _____

Test at all speeds _____

PROOF LOAD TEST

Operate at 125% of design load _____

Test all controls _____

RATED LOAD TEST

Operate at 25% of design load _____

Calculate speed _____

Measure rail deflection _____

Operate at 50% of design load _____

Calculate speed _____

Measure rail deflection _____

Operate at 75% of design load _____

Calculate speed _____

Measure rail deflection _____

Operate at 100% of design load _____

Calculate speed _____

Measure rail deflection _____

SPEC. _____

TEST DATA

EQUIPMENT: _____

Visual inspection _____

Test all controls _____

Comments _____

_____

_____

_____

_____

SPEC. _____

TEST DATA

Operational test of Equipment

Equipment: _____

Test all controls _____

Test all safety devices _____

Test equipment preformance _____

Comments _____

_____

_____

_____

SPEC. 16335

TEST DATA

Equipment identification _____

Compare wiring to diagram _____

Visual inspection _____

Inspect bolting _____

Test contact alinements _____

Preform min. pickup voltage tests _____

Make continuity check of current, potential, and control circuit _____

Insulation resistance test _____

Check polarity _____

Remove short-circuiting links _____

Test meter connections _____

Inspect trip devices and fuses _____

Remove shipping blocks _____

Test low voltage breakers _____

Verify proper grounds _____

SPEC. 16335

TEST DATA

EQUIPMENT: _____

Operational test _____

Test all trips and breakers _____

Comments _____

_____

_____

_____

PROJECT: _____

DEMONSTRATION TESTING

ITEM NO.	DESCRIPTION	TIMES ON/OFF	REMARKS

SIGNATURE: _____

SEC-24

PROJECT: _____

MEGGER TEST REPORTS

From	To	Size Wire	Megger Reading										Weather	Date	Remarks
			A-Gr.	B-Gr.	C-Gr.	N-Gr.	A-B	A-C	B-C	A-N	B-N	C-N			

Signature: _____

PROJECT: _____

CONTINUITY TEST

NO	FROM	TO	OHMS	REMARKS

SIGNATURE: _____

SEC-20