

Full

CONTRACTOR'S SUBMITTAL TRANSMITTAL

5ND LANTDIV 4-4355/3 (Rev. 6/76)

CONTRACT NO. 81-C-1766	TRANSMITTAL NO. 7	DATE 9 June 1983
PROJECT TITLE AND LOCATION Public Works & Helipad MCB Camp Lejeune, N.C.		ROUTING ORDER 3D KS

FROM CONTRACTOR
Trader Construction Company

TO
Lockwood Greene/Six Associates

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

REVIEWER'S INITIALS

CODE AND DATE

RETURN TO 02

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
113	02613	Cement Certification			
	2.1	Aggregate, admixture, cement	7	A	E.W.M. 6/20/83
	2.2				
	2.2.1	Mix design, 650 Flex	7	A/C	E.W.M. 6/20/83

CONTRACTOR'S COMMENTS

See Transmittal No. 8 for Admix, aggregate, Cement, sand

Copied - Fried
6-28-83

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC ROICC, Camp Lejeune, N.C.		CONTRACTOR REPRESENTATIVE (Signature) John Mayo	
DATE RECEIVED BY REVIEWER 6/13/83	FROM (Reviewer) Six Associates, Inc.	TO Trader Construction Co.	

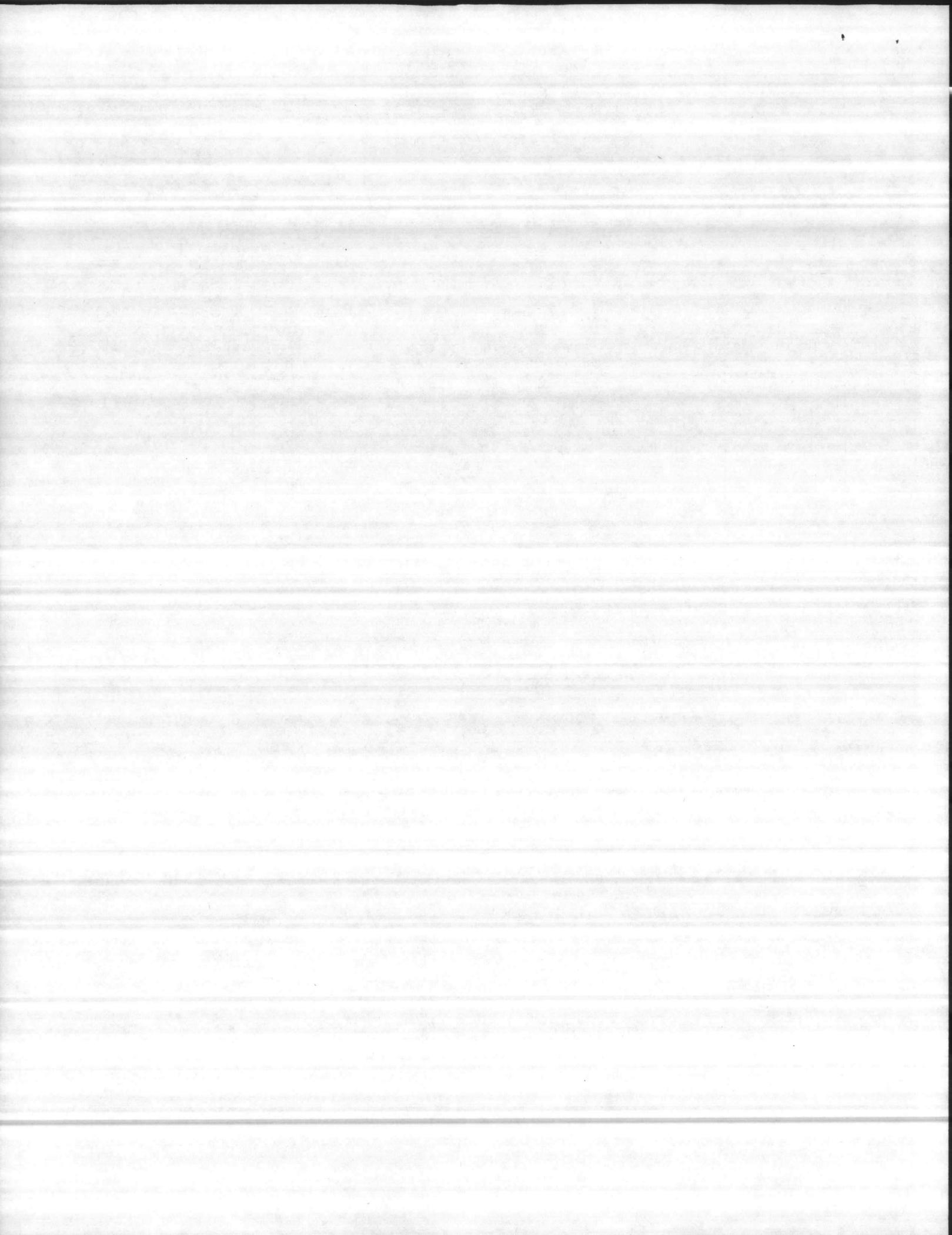
- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

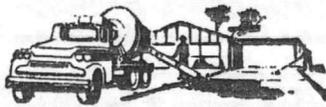
REVIEWER'S COMMENTS

UNDER HEADING RESULTS, SLUMP INDICATED AS 4% SHOULD READ 4"



COPIES TO: ROICC (2) ✓ LANTDIV (1) A-E (1)	DATE 6/23/83	SIGNATURE Ed McLants
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BARRUS READY MIXED CONCRETE CO.

KINSTON, N. C. 28501, HIGHWAY 70 EAST, TELEPHONE 527-8024
JACKSONVILLE, N. C. 28540, BELL FORK ROAD, TELEPHONE 348-1975
MOREHEAD CITY, N. C. 28557, HIGHWAY 170 WEST, TELEPHONE 726-2566

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766 in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government APPROVAL
Certified by *[Signature]*

May 31, 1983

Date *8 Jun 83*

Trader Construction Company
Post Office Box 1578
New Bern, North Carolina 28560

Re: N62470-81-C-1766, Public Works Building Helipad and Landscaping, Naval Regional Medical Center, Camp Lejeune, N. C.

Gentlemen:

The manufacturer hereby certifies that the following products furnished for this project conform to all requirements of the project specifications and of the referenced specification listed.

Manufacturer

Barrus Ready Mixed Concrete Company
Ready Mixed Concrete

ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511	
APPROVED <input checked="" type="checkbox"/>	Specification
APPROVED AS NOTED	ASTM - C94
DISAPPROVED	SUBJECT TO THE REQUIREMENTS OF CONTRACT NO. N62470-81-C-1766
BARRUS READY MIXED CONCRETE CO. APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.	
REVIEWER <i>Ed McCants</i>	DATE <i>6/29/83</i>
FOR OFFICER IN CHARGE OF CONSTRUCTION	

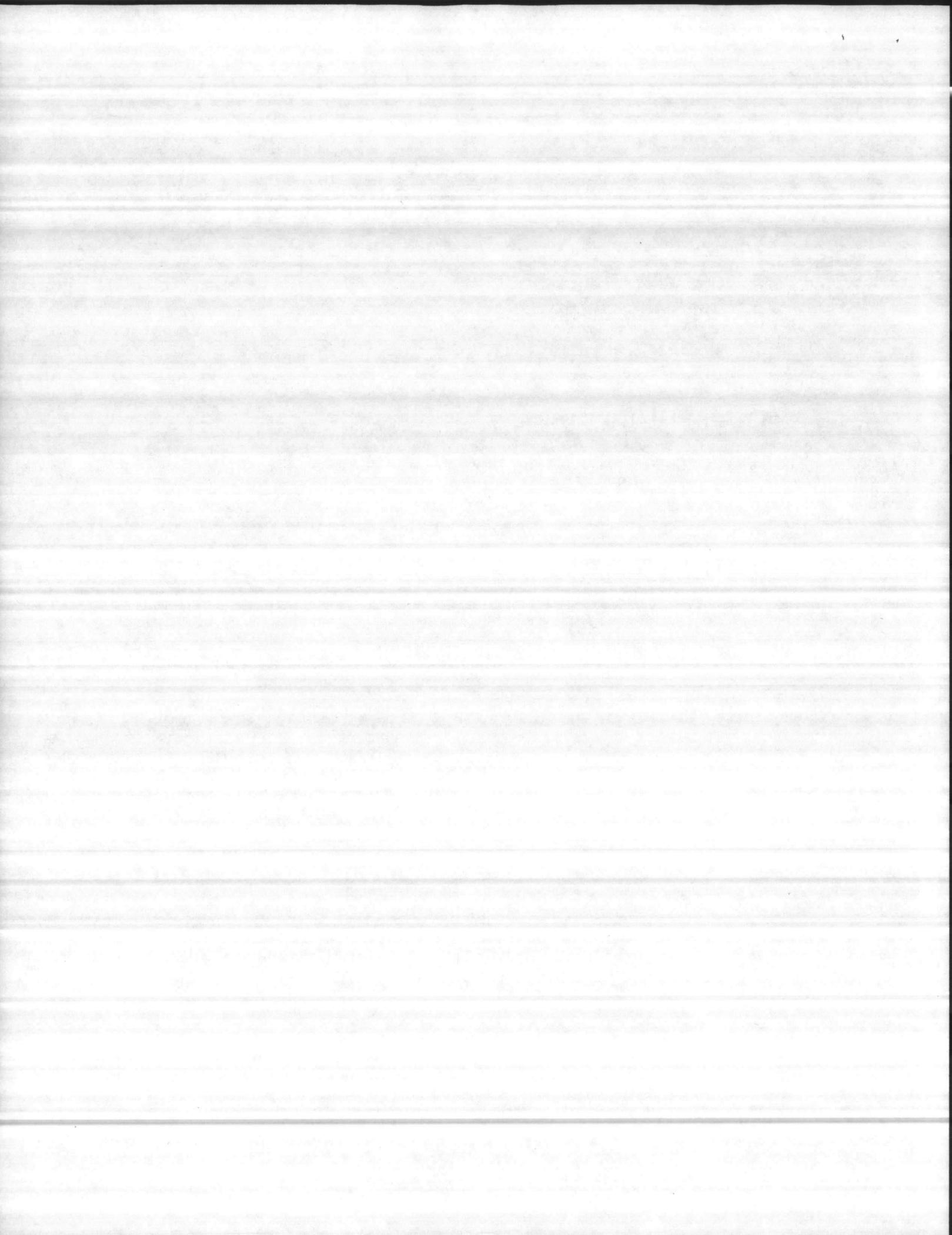
[Signature]
C. F. Simon

NORTH CAROLINA
LENOIR COUNTY

Sworn and subscribed to this 31st day of May, 1983.

[Signature]
Notary Public

My Commission expires:
10-5-85





ATLANTIC CEMENT COMPANY, INC.

A subsidiary of Newmont Mining Corporation

P. O. Box 5207 • Chesapeake, Virginia 23324 • (804) 545-2481

May 18, 1983

Barrus Ready Mixed Concrete Company
Post Office Box 905
Jacksonville, North Carolina 28540

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766 in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by John Jack Huddle

Date 8 Jun 83 "

Gentlemen:

The Atlantic cement to be furnished the below project is produced at Ravena, New York. We certify it to be manufactured under our normal quality control processes and it does, based on test results, meet the requirements of ASTM C-150, Federal S-SC1960/3, AASHTO Standards M-85, Type I.

PROJECT NUMBER: N62470-81-C-1766
JOB: Public Works Bldg.
Navy Regional Medical Center
LOCATION: Camp LeJeune, N.C.
CONTRACTOR: Trader Construction Company
New Bern, N.C.
SHIPPED TO: Barrus R/M Concrete Company
DESTINATION: Jacksonville, N.C.

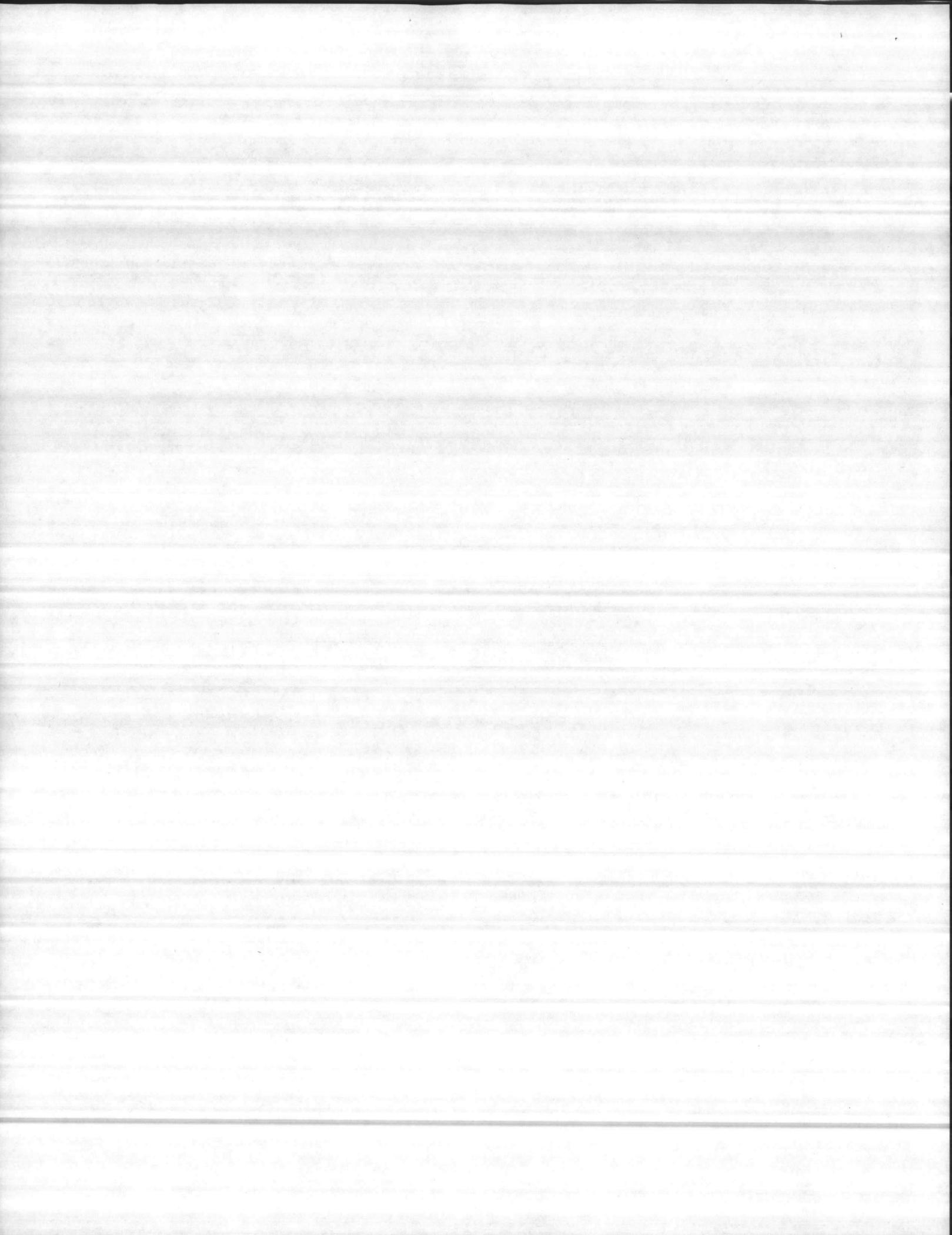
ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK VIRGINIA 23511	
APPROVED	_____
APPROVED AS NOTED	_____
DISAPPROVED	_____
SUBJECT TO THE REQUIREMENTS OF CONTRACT NO <u>N62470-81-C-1766</u>	
APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.	

Very truly yours,
REVIEWER Ed McLants DATE 6/20/83

ATLANTIC CEMENT COMPANY, INC.
FOR OFFICER IN CHARGE OF CONSTRUCTION

Delmar L. Carroll, Jr.
Delmar L. Carroll, Jr.
Office Manager

DLCjr/sh





BARRUS READY MIXED CONCRETE CO.

KINSTON, N. C. 28501, HIGHWAY 70 EAST, TELEPHONE 527-8024
JACKSONVILLE, N. C. 28540, BELL FORK ROAD, TELEPHONE 346-4196
MOREHEAD CITY, N. C. 28557, HIGHWAY 70 WEST, TELEPHONE 726-2566

May 31, 1983

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766 in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by Joseph Jack Huddle
Date 8 June 83

Trader Construction Company
Post Office Box 1578
New Bern, North Carolina 28560

Re: N62470-81-C-1766, Public Works Building Helipad and Landscaping,
Naval Regional Medical Center, Camp Lejeune, N. C.

Gentlemen:

The manufacturer hereby certifies that the following NAVAL FACILITIES ENGINEERING COMMAND for this project conform to all requirements of the project NORFOLK INSTANT 251 and of the referenced specification listed.

Manufacturer

Barrus Ready Mixed Concrete Company
Concrete Sand - Poole Pit

ATLANTIC DIVISION	
NAVAL FACILITIES ENGINEERING COMMAND	
NORFOLK INSTANT 251	
APPROVED <input checked="" type="checkbox"/>	
APPROVED AS NOTED	
DISAPPROVED	Specification
SUBJECT TO THE REQUIREMENTS OF	
CONTRACT NO. <u>N62470-81-C-1766</u>	
APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION... THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.	
REVIEWER <u>Ed McCants</u>	DATE <u>6/20/83</u>
FOR OFFICER IN CHARGE OF CONSTRUCTION	

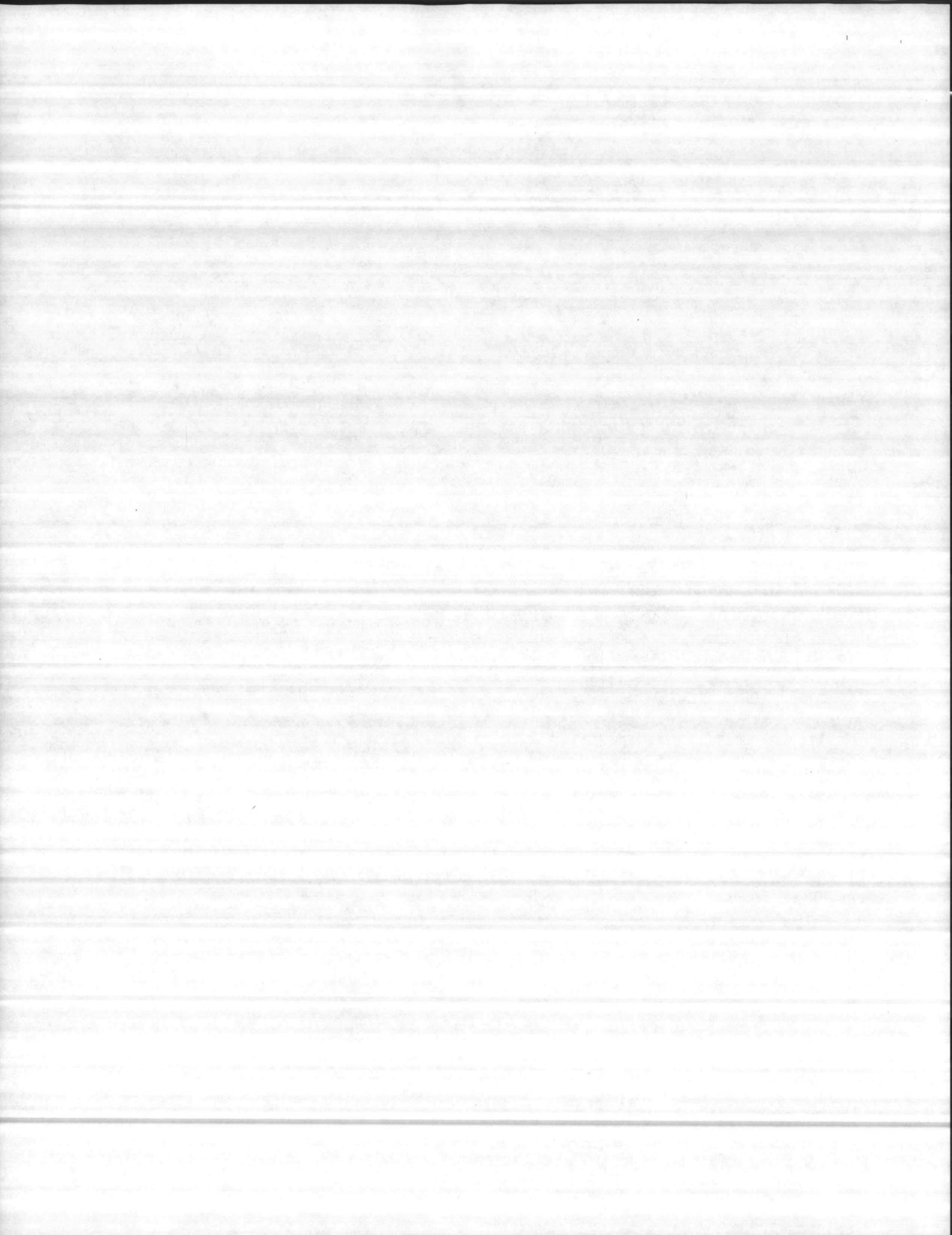
T. E. Briley, Jr.
T. E. Briley, Jr.

NORTH CAROLINA
LENOIR COUNTY

Sworn and subscribed to this 31st day of May, 1983.

Llewellyn D. Bradshaw
Notary Public

My Commission expires:
10-5-85



MARTIN MARIETTA AGGREGATES

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

CONSTRUCTION AGGREGATES DIVISION
P. O. BOX 30013
RALEIGH, NORTH CAROLINA 27622
TELEPHONE (919) 781-4550

APPROVED _____ ✓
APPROVED AS NOTED _____
DISAPPROVED _____

May 25, 1983

SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO N62470-81-C-1766

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
APPROVAL OF ANY DEVIATION FROM THE CON-
TRACT REQUIREMENTS UNLESS THE CONTRACTOR
CALLS ATTENTION TO AND SUPPORTS THE DEVI-
ATION. THE CONTRACTOR SHALL BE RESPONSIBLE
FOR PROVIDING PROPER PHYSICAL DIMENSIONS
& WEIGHTS, COORDINATION OF TRADES, ETC., AS
REQUIRED.

Barrus Ready Mix
P. O. Box 905
Jacksonville, N. C. 28540

Re: N62470-81-C-1766
Public Works Building
Naval Regional Medical
Center
Camp LeJeune, N. C.

REVIEWER Ed McCants DATE 6/20/83

FOR OFFICER IN CHARGE OF CONSTRUCTION

Gentlemen:

We are pleased to advise that the #57 coarse aggregate produced at our Belgrade, N. C. Quarry meets the specifications of ASTM C-33 and the requirements of the North Carolina Department of Transportation Standard Specifications for Roads and Structures.

We appreciate the opportunity to furnish your crushed stone needs.

Sincerely,

Larry B. Ward

Larry B. Ward

NORTH CAROLINA
WAKE COUNTY

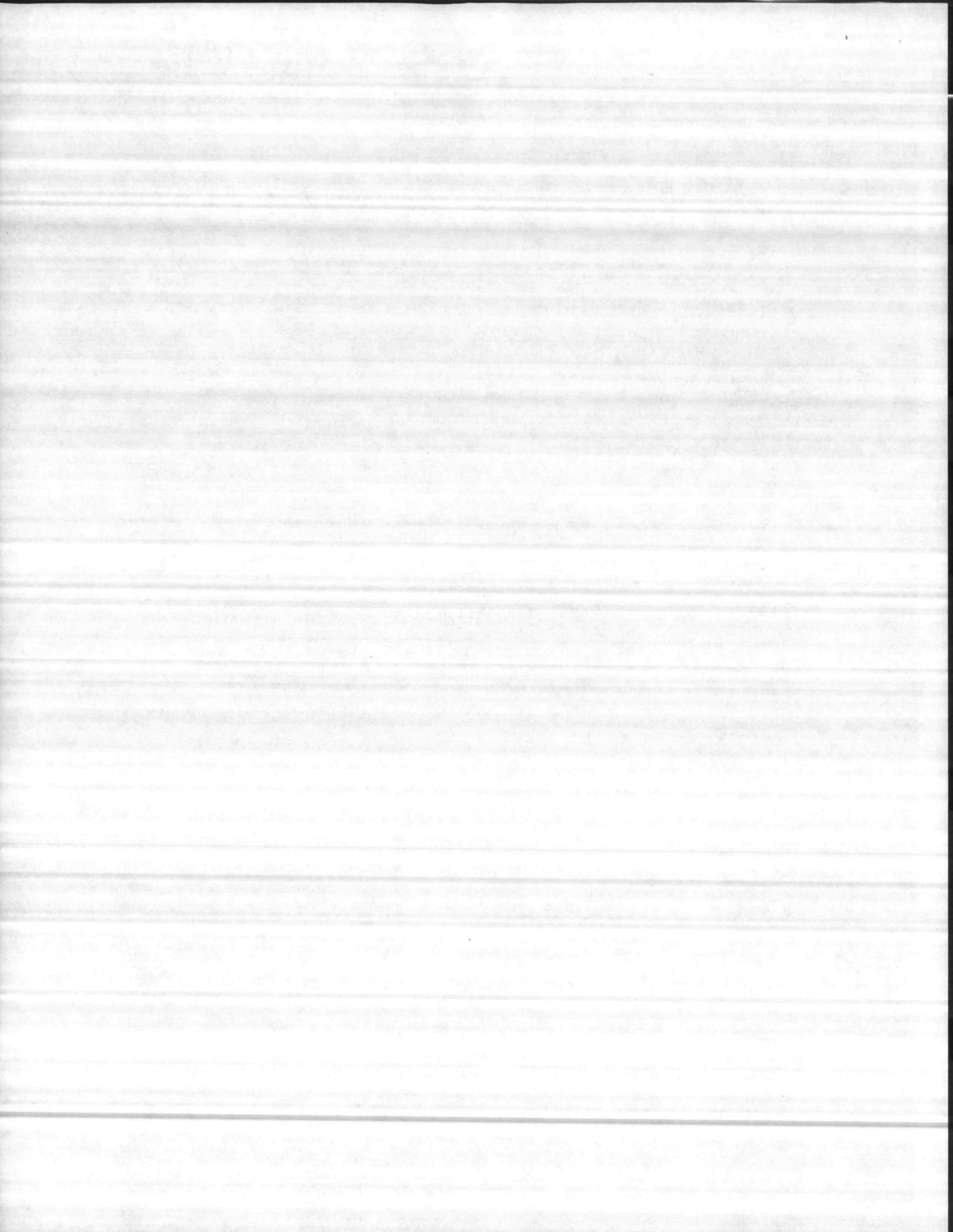
Sworn to and subscribed before me
this 27 day of May, 1983.

Rebecca Kaye Davis
NOTARY PUBLIC

My commission expires: 4/27/85

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766, is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by Mr. Joe Huddle
Date 8 Jun 83





NELLO L. TEER COMPANY

A Subsidiary of Koppers Company, Inc.

GENERAL OFFICE

post office box 1131 - Durham 27702

It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766. is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

May 20, 1983

Certified by Jim for Jack Huddle
Date 8 Jun 83

Barrus Ready Mixed Concrete
P. O. Box 905
Jacksonville, North Carolina 28540

Attention: Mr. Sam Simoneaux

RE: Public Works Building
Navy Regional Medical Center
Contract N62470-81-C-1766
Camp LeJeune, N.C.

Gentlemen:

This is to certify that the #57 Aggregate Princeton Quarry, and to be furnished on the referenced project meets specifications specified in ASTM-C33. The LA Abrasive Loss is less than 40 percent.

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NOFOLK, VIRGINIA 23511

APPROVED APPROVED
APPROVED AS NOTED _____
DISAPPROVED _____

Very truly yours,
SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. N62470-81-C-1766

NELLO L. TEER COMPANY

F. R. Umstead
F. R. Umstead
Aggregate Division

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR ATTENTION TO AND SUPPORTS THE DEVIATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

REVIEWER Ed McLants DATE 6/7/83
FOR OFFICER IN CHARGE OF CONSTRUCTION

FRU:gm

cc: Trader Construction Company
File

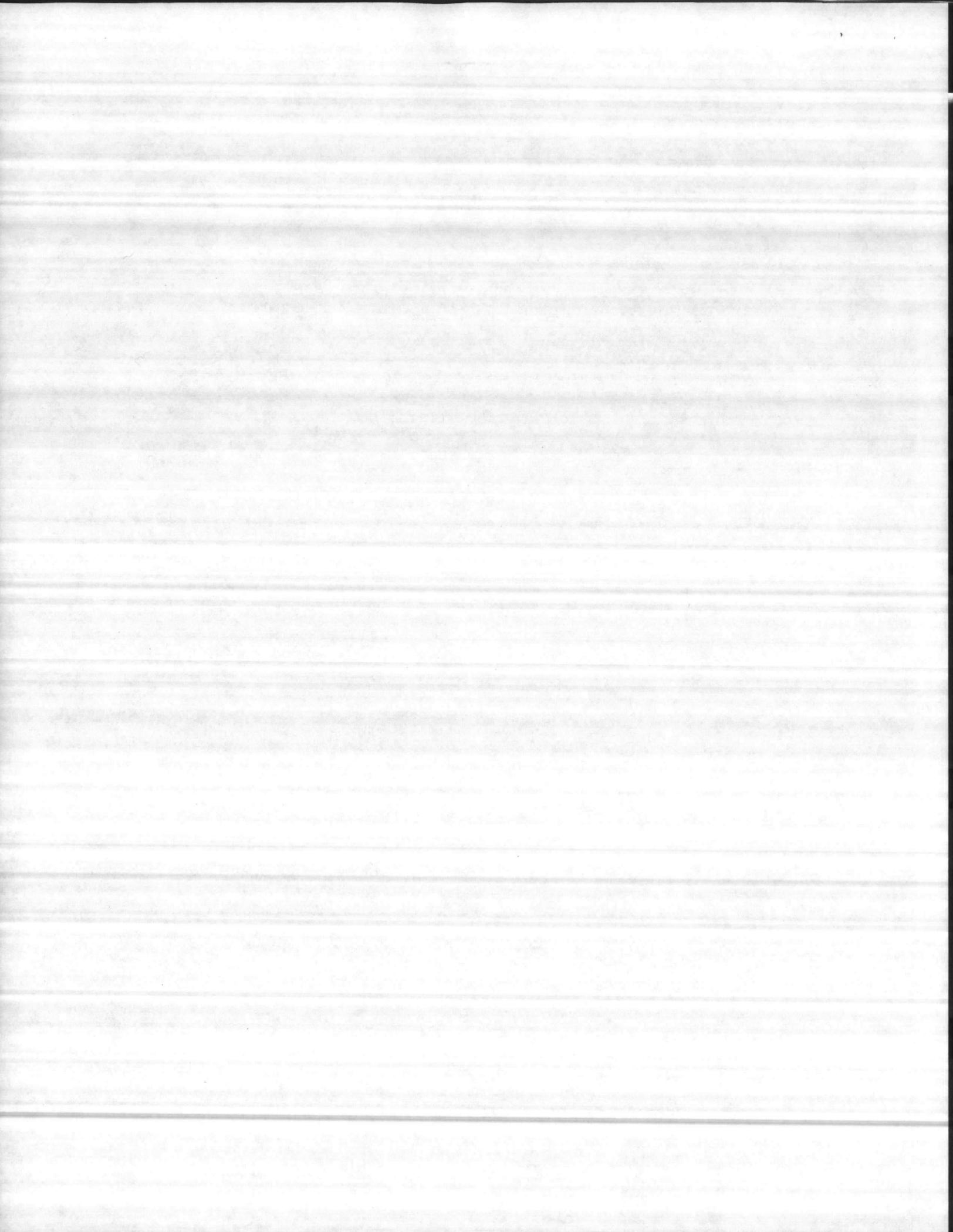
STATE OF North Carolina
COUNTY OF Durham

I, Nancy S. Wimberley, a Notary Public in and for the State and County aforesaid, certify that F. R. Umstead personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

WITNESS MY HAND and notarial seal this 20th day of May, 1983.

Nancy S. Wimberley
Notary Public

My Commission Expires December 28, 1986



April 28, 1983

Certificate of Conformance
Pozzolith 122-N
Master Builders Admixture for Concrete

Re: Project: Public Works Building, Helipad & Landscaping
#N62470-81-C-1766
Navel Regional Medical Center
Cam LeJeune, North Carolina
Contractor: Trader Construction
New Bern, North Carolina

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766 is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by James C. Maras
Date 8 Jun 83

To Whom It May Concern:

State of Ohio)
County of Cuyahoga)^{ss}

Before me, a Notary Public, in and for the aforesaid State and County, personally appeared James C. Maras, who being duly sworn, deposes and says:

That he is Quality Assurance Manager for Master Builders, Cleveland, Ohio; and

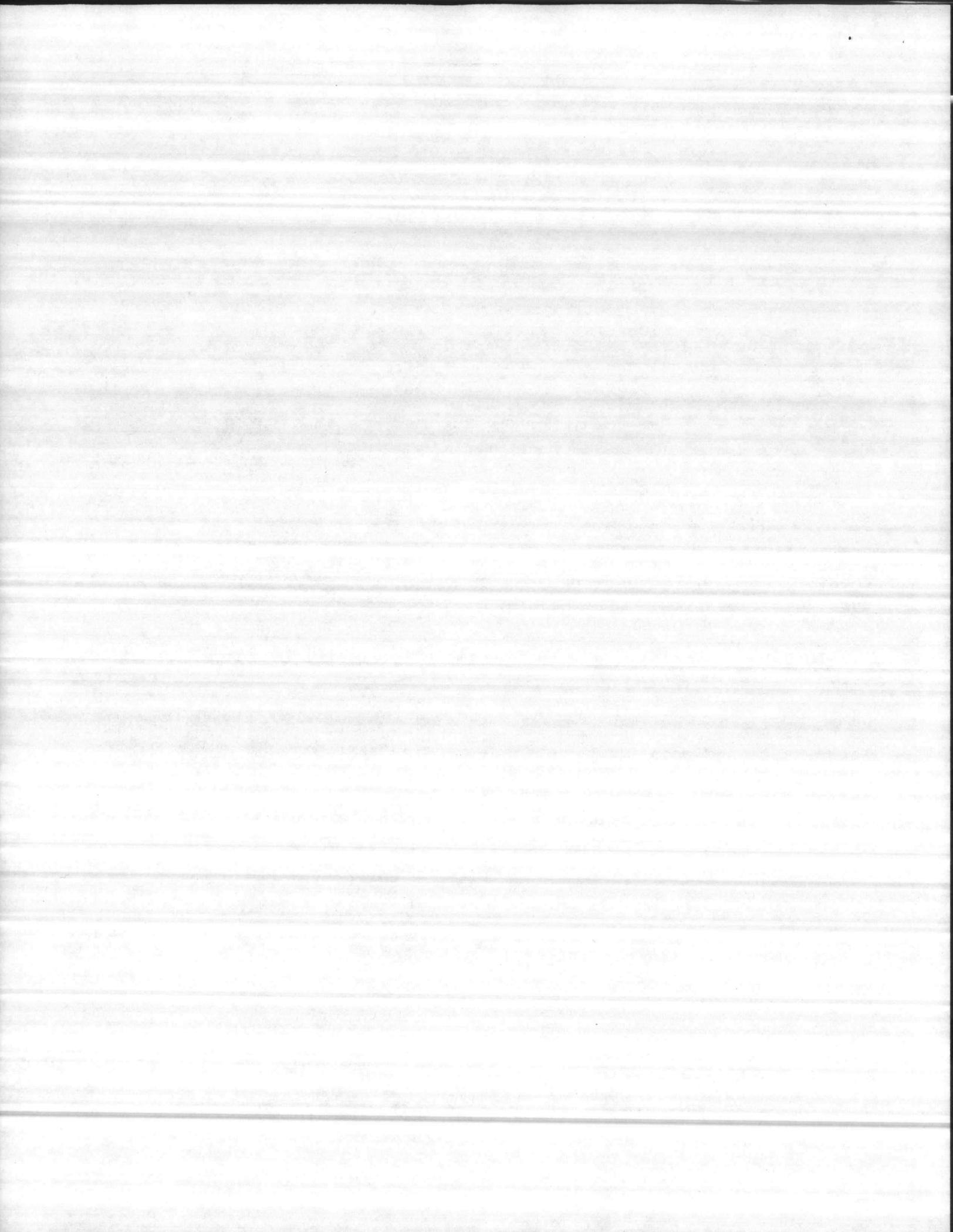
That Pozzolith 122-N meets the requirements of Naval Facilities Engineering Command Water-Reducing Admixture specified in ASTM C 494-81 and AASHTO M 194-82, Standard Specifications for Chemical Admixtures for Concrete.

James C. Maras
James C. Maras
Quality Assurance Manager

ATLANTIC DIVISION	
NAVAL FACILITIES ENGINEERING COMMAND	
WORLD HEADQUARTERS	
CROFTON, VIRGINIA 23511	
APPROVED	<input checked="" type="checkbox"/>
APPROVED AS NOTED	<input type="checkbox"/>
DISAPPROVED	<input type="checkbox"/>
SUBJECT TO THE REQUIREMENTS OF	
CONTRACT NO. <u>N62470-81-C-1766</u>	
APPROVAL OF MASTER BUILDER DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION... THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.	
REVIEWER <u>Ed McLants</u>	DATE <u>6/20/83</u>
FOR OFFICER IN CHARGE OF CONSTRUCTION	

Subscribed and sworn to before me this 28th day of April, 1983

Donna M. Dropik
Donna M. Dropik, Notary Public
State of Ohio
My Commission Expires April 19, 1987
(Recorded in Lake County)



April 28, 1983

Certificate of Conformance

MB-AE 10

Master Builders Air-Entraining Admixture for Concrete

Re: Project: Public Works Building, Helipad & Landscaping

#N62470-81-C-1766

Navel Regional Medical Center

Camp LeJeune, North Carolina

Contractor: Trader Construction

New Bern, North Carolina

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766. Is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by Jim for Jack Huddle
Date 8 Jun 83

To Whom It May Concern:

State of Ohio)
County of Cuyahoga)ss

Before me, a Notary Public, in and for the aforesaid State and County, personally appeared James C. Maras, who being duly sworn, deposes and says:

That he is Quality Assurance Manager for Master Builders, Cleveland, Ohio; and

That MB-AE 10, an Air-Entraining admixture for concrete is an alkali-stabilized aqueous solution of a saponified natural wood resin, having a nominal 7 percent residue when dried at 105°C; and

That MB-AE 10 meets the requirements of ANSI/ASTM C 260-77, Corps of Engineers' CRD-C 13-79, and AASHTO M 154-79, Standard Specifications for Air-Entraining Admixtures SUBJECT TO THE REQUIREMENTS OF CONTRACT NO N62470-81-C-1766

James C. Maras
James C. Maras
Quality Assurance Manager

Subscribed and sworn to before me this 28th day of April, 1983

Donna M. Dropik
Donna M. Dropik, Notary Public
State of Ohio

My Commission Expires April 19, 1987
(Recorded in Lake County)

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED

APPROVED AS NOTED _____

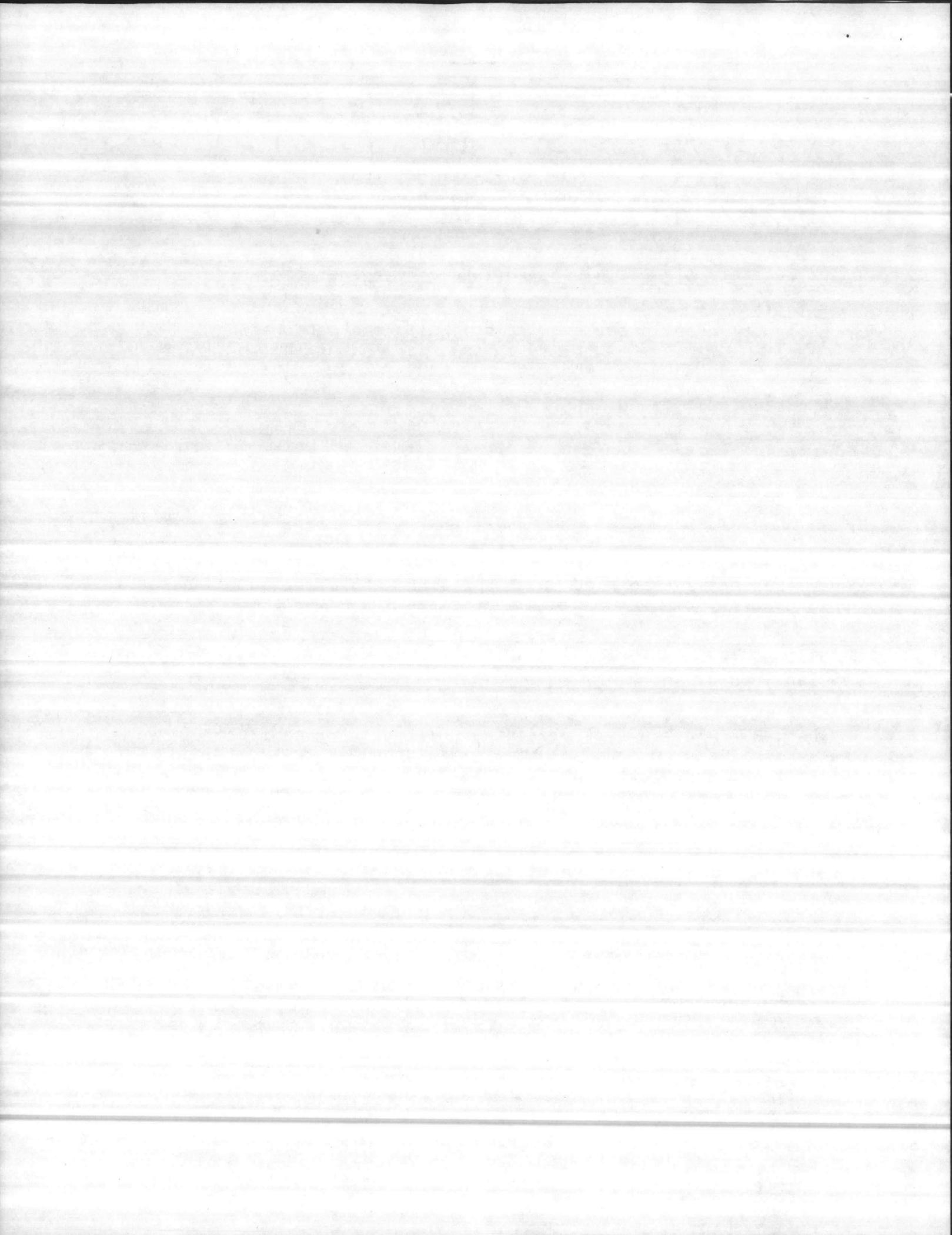
DISAPPROVED _____

SUBJECT TO THE REQUIREMENTS OF CONTRACT NO N62470-81-C-1766

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION...THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

REVIEWER Ed McLants DATE 6/29/83

FOR OFFICER IN CHARGE OF CONSTRUCTION



April 28, 1983

Certificate of Conformance
Pozzolith 122-HE
Master Builders Admixture for Concrete

Re: Project: Public Works Building, Helipad & Landscaping
#N62470-81-C-1766
Navel Regional Medical Center
Camp LeJeune, North Carolina
Contractor: Trader Construction
New Bern, North Carolina

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766, is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by Joseph Jack Huddle
Date 8 Jun 83 "

To Whom It May Concern:

State of Ohio)
County of Cuyahoga)ss

Before me, a Notary Public, in and for the aforesaid State and County, personally appeared James C. Maras, who being duly sworn, deposes and says:

That he is Quality Assurance Manager for Master Builders, Cleveland, Ohio; and

That Pozzolith 122-HE meets the requirements for **ATLANTIC DIVISION** Accelerating Admixture, specified in ASTM C 494, **NAVAL FACILITIES ENGINEERING COMMAND** Engineers' CRD-C 87-81 and AASHTO M 194-82, Standard Specifications for Chemical Admixtures for Concrete, **NORFOLK VIRGINIA 23511**

James C. Maras
James C. Maras
Quality Assurance Manager

APPROVED

APPROVED AS NOTED

DISAPPROVED

SUBJECT TO THE REQUIREMENTS OF CONTRACT NO. N62470-81-C-1766

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION... THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

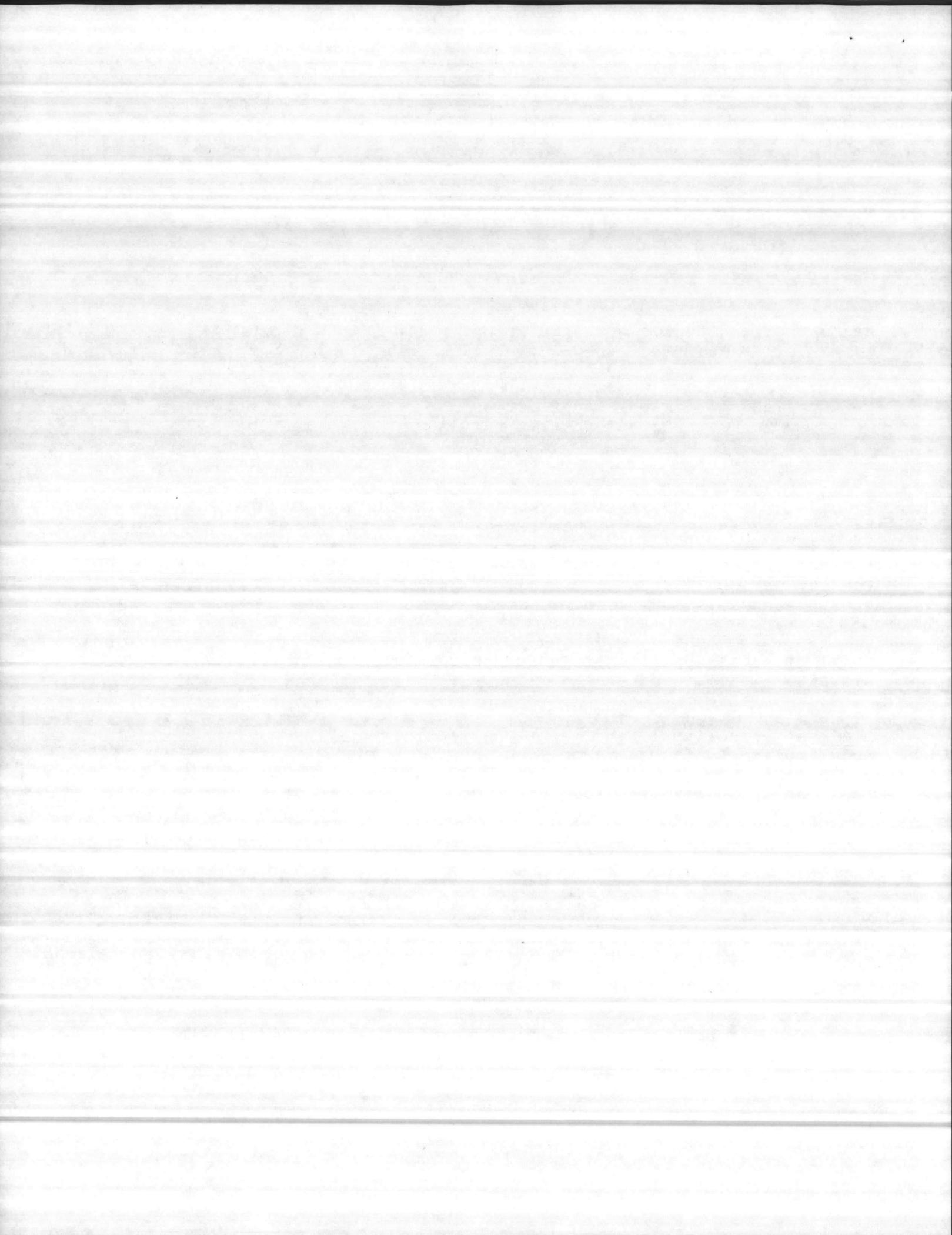
REVIEWER Ed McCants DATE 6/27/83

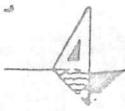
FOR OFFICER IN CHARGE OF CONSTRUCTION

Subscribed and sworn to before me this 28th day of April, 1983

Donna M. Dropik
Donna M. Dropik, Notary Public
State of Ohio

My Commission Expires April 19, 1987
(Recorded in Lake County)





Surti and Associates

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

CONCRETE MIX DESIGN REPORT

"It is hereby certified that the requirements (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766 is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by Joseph J. Hudelle
Date 8 Jun 1983

CONTRACTOR		Date	5-20-83
OR CLIENT	Barrus Ready-Mix	DATE	5-20-83
PROJECT	Batching Plant		

MIX DESIGN SPECIFICATION

SLUMP	3" - 4"	CEMENT BAGS / CU.YD.	7.1
W/C	4.50 Gal./Bag	COMPRESSIVE STRENGTH	650 FLEX PST
AIR % BY VOLUME	6% ± - 1%		

MATERIALS

SOURCE AND ANALYSIS

CEMENT	Atlantic Portland Cement Type 1
COARSE AGGREGATE	Nello L. Teer Granite, Neverson Quarry 1"-#57
FINE AGGREGATE	Pool Pit from Barrus Construction
ADMIXTURES	Master Builders Air: MBE-10 Master Builders W.R.-122N

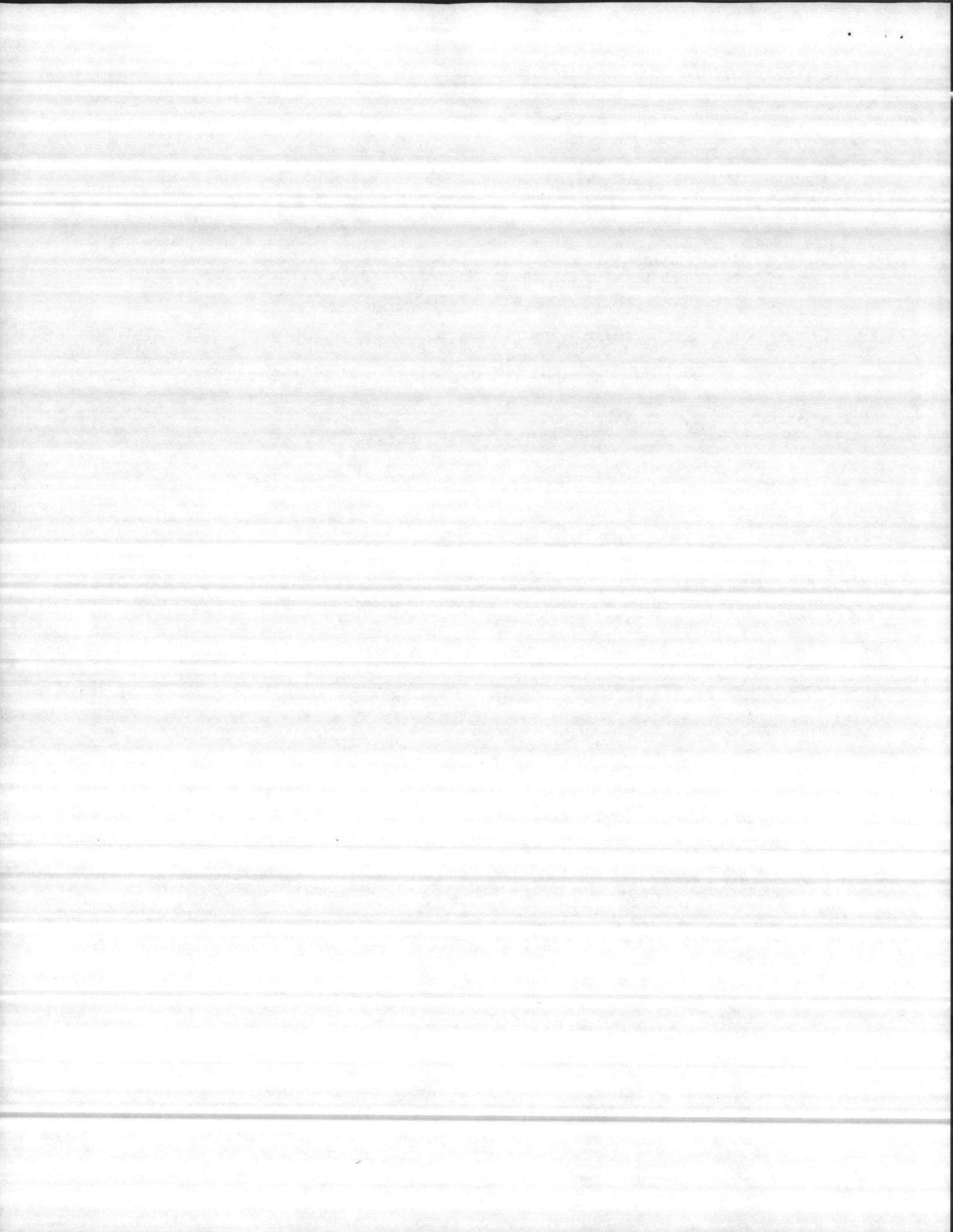
COARSE AGGREGATE	
SIEVE	% PASSING
1 1/2"	100
1"	96.93
3/4"	88.19
1/2"	59.63
3/8"	28.67
APPROVED	9.52
APPROVED AS NOTED	
DISAPPROVED	

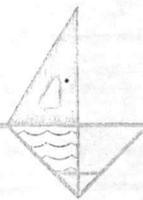
FINE AGGREGATE	
SIEVE	% PASSING
3/8"	100
NO. 4	96.48
NO. 8	92.94
NO. 16	82.24
NO. 30	59.24
NO. 50	19.46
NO. 100	2.26
NO. 200	
SPECIFIC GRAVITY	2.58
ABSORPTION	.90
WEIGHT	
LOOSE	LB/CU.FT.
RODDED	104 LB/CU.FT.
FINENESS MODULUS	2.47

ATLANTIC DIVISION 88.19
 NAVAL FACILITIES ENGINEERING COMMAND
 NORFOLK, VIRGINIA 23511 59.63
 APPROVED ✓ 28.67
 APPROVED AS NOTED 9.52
 DISAPPROVED
 SUBJECT TO THE REQUIREMENTS OF
 CONTRACT NO. N62470-81-C-1766
 APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
 APPROVAL OF ANY DEVIATION FROM THE CON-
 TRACT REQUIREMENTS UNLESS THE CONTRACTOR
 CALLS ATTENTION TO AND SUPPORTS THE DEVIATION.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR
 PROVIDING PROPER PHYSICAL DIMENSIONS &
 WEIGHTS, COORDINATION OF TRADES, ETC., AS
 REQUIRED.

REVIEWER Ed McCants DATE 6/20/83

FOR OFFICER IN CHARGE OF CONSTRUCTION





Surti and Associates

ENGINEERING - SURVEYING - TESTING

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

MIX BY WEIGHT (650 PSI)

Dry Materials (SSD)

Cement: 7.1 bags
667.40 lbs.

Sand: 1075 lbs.

Stone: 2050 lbs.

Water: 32 gallons
226.24 lbs.

Wet Materials

1129 lbs. (5% moisture)

25.54 gallons
212.00 lbs.

Admixtures: MBE-10 7oz.
W.R.-122N 20oz.

RESULTS

Slump: 4% - 4"

Air: 5½%

Unit Weight: 142.00 lbs.

FLEXURAL STRENGTH

No.	Size	Breaking Load Pounds	Load in PSI	Age at Test	Unit Weight per cu. ft.
1	6x6x18	7,700	642	7	141.5
2	6x6x18	8,675	723	7	142.0
3	6x6x18	9,800	817	28	142.0

Surti and Associates
M.L. Surti
M.L. Surti, P.E.

