

01.05-10/27/95-00142

**FACILITY ASSESSMENT
PRELIMINARY REVIEW DOCUMENT**

For

**MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA**

VOLUME III

Prepared For

**Naval Facilities Engineering Command
Atlantic Division
Norfolk, Virginia**

**Environmental and Safety Designs, Inc
Memphis, Tennessee**

October 27, 1995

TABLE OF CONTENTS VOLUME III

WASTEWATER COLLECTION MAPS, 1984

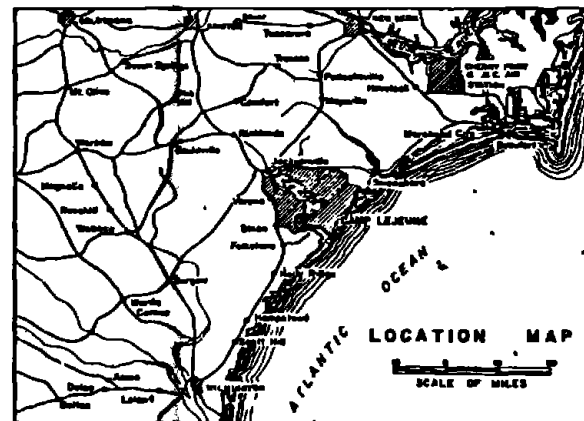
**INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES, AS-BUILT 1983
(partial)**

REVISIONS		DATE	APPROVED
SYMBOL	DESCRIPTION		

INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA



RECORD DRAWING DATE FEB 12, 53		C-1	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERING ARCHITECTS 1000 W. 11th St. Wilmington, N.C.		DEPARTMENT OF THE NAVY MARINE ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VIRGINIA	
MARINE STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES TITLE SHEET CIVIL	
SCALE: 1" = 1/2 MI.	DATE: 12-11-52	DESIGNED BY: [Signature]	DATE: 1-1-53
APPROVED BY: [Signature]	DATE: 1-1-53	SCALE: 1" = 1/2 MI.	DATE: 1-1-53
DRAWING NO. 80091		DRAWING NO. 40528	
SCALE: 1" = 1/2 MI.		SCALE: 1" = 1/2 MI.	

REV	DESCRIPTION	DATE	BY

GENERAL NOTES

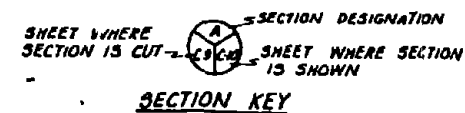
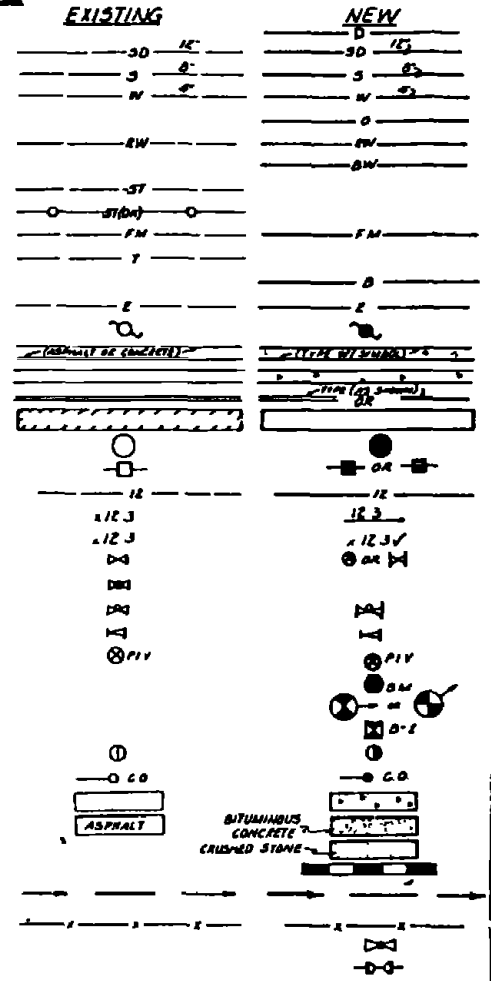
- UNLESS INDICATED OTHERWISE THE DATUM USED FOR BENCHMARK IS BASED ON MEAN SEA LEVEL EQUAL TO ZERO
- ALL CONNECTIONS TO EXISTING MANHOLES AND DRAINAGE STRUCTURES SHALL BE MADE BY CUTTING THE HOLE, INSERTING THE NEW PIPE AND GRouting THE REMAINING OPENING BETWEEN THE PIPE AND STRUCTURE WATER TIGHT
- ALL CONNECTIONS BETWEEN PIPES AND SANITARY MANHOLES SHALL BE MADE WITH A FLEXIBLE PAIRFORMED RUBBER OR REC BOOT.
- ALL PIPES ENTERING SANITARY SEWERS SHALL BE PROVIDED WITH WATER TIGHT JOINTS SO AS NOT TO EXCEED THE INFILTRATION REQUIREMENTS SPECIFIED
- FORCE MAINS SHALL BE INSTALLED ON A CONSTANT GRADE WITH NO UNNECESSARY HIGH POINTS. WHERE HIGH POINTS OCCUR OTHER THAN THOSE INDICATED AIR RELEASE VALVES SHALL BE PROVIDED
- DUCTILE IRON PIPE (D.I.P.) SHALL BE PROVIDED WHERE PIPES ENTER AND LEAVE ALL STRUCTURES EXCEPT MANHOLES AND CATCH BASINS FOR A MINIMUM DISTANCE OF 5' OUTSIDE THE STRUCTURES
- WHERE PIPES MUST CROSS EXISTING RAILROAD TRACKS CONTRACTOR SHALL PROVIDE SELECT BACKFILL MATERIAL OVER THE NEW PIPE UP TO THE TRACK.
- WHERE EXISTING GARAGE RACKS AND OTHER STRUCTURES INTERFERE WITH THE WORK TO BE PERFORMED, THE GREASE RACK AND/OR STRUCTURE SHALL BE REMOVED AND REINSTALLED FOLLOWING CONSTRUCTION
- FOR TYPICAL DETAILS, SUCH AS CONTAINMENT BASINS, WASTE OIL TANKS, SLABS, ETC. SEE THE SPECIFIC DETAIL SHEETS FOR EACH STRUCTURE WHERE SHOWN OR WHEN BECAUSE OF THE LARGE # OF DETAILS REQUIRED SPECIFIC REFERENCE FOR EACH STRUCTURE IS NOT SHOWN.

ABBREVIATIONS

- B - BOILER BLOWDOWN LINES
- BM - BENCHMARK
- BW - BACKWASH
- C.B. - CATCH BASIN
- C.O. - CLEAN OUT
- CV - CHECK VALVE
- D.I.P. - DUCTILE IRON PIPE
- E - ELECTRIC
- EX - EXISTING
- FH - FIRE HYDRANT
- FLI - FUEL LEVEL INDICATOR
- FP OR FV - FILL PORT
- G.C. - GRIT CHAMBER
- G.P.M. - GALLONS PER MINUTE
- GV - GATE VALVE
- H.D. - HEAVY DUTY
- LF - LINEAR FEET
- M.H. - MANHOLE
- O.W.S. - OIL/WATER SEPARATOR
- PP - POWER POLE
- PS. - PUMP STATION
- R.C.P. - REINFORCED CONCRETE PIPE
- R.W. - RAW WATER
- S. - SANITARY SEWER
- S.B.C. - STORM WATER BYPASS CHAMBER
- SD - STORM DRAIN
- ST - STEAM LINE
- ST(OH) - STEAM LINE (OVERHEAD)
- T - TELEPHONE
- TH'K - THICKNESS
- TK - TANK
- U.G. - UNDERGROUND
- VP - VENT PIPE
- W - WATER
- W.O. - WASTE OIL
- W.S. - WATER SPIGOT
- E/P - EDGE OF FAVEMENT
- T.S.T. - TEMPORARY SEDIMENT TRAP
- FA. - FIRE ALARM

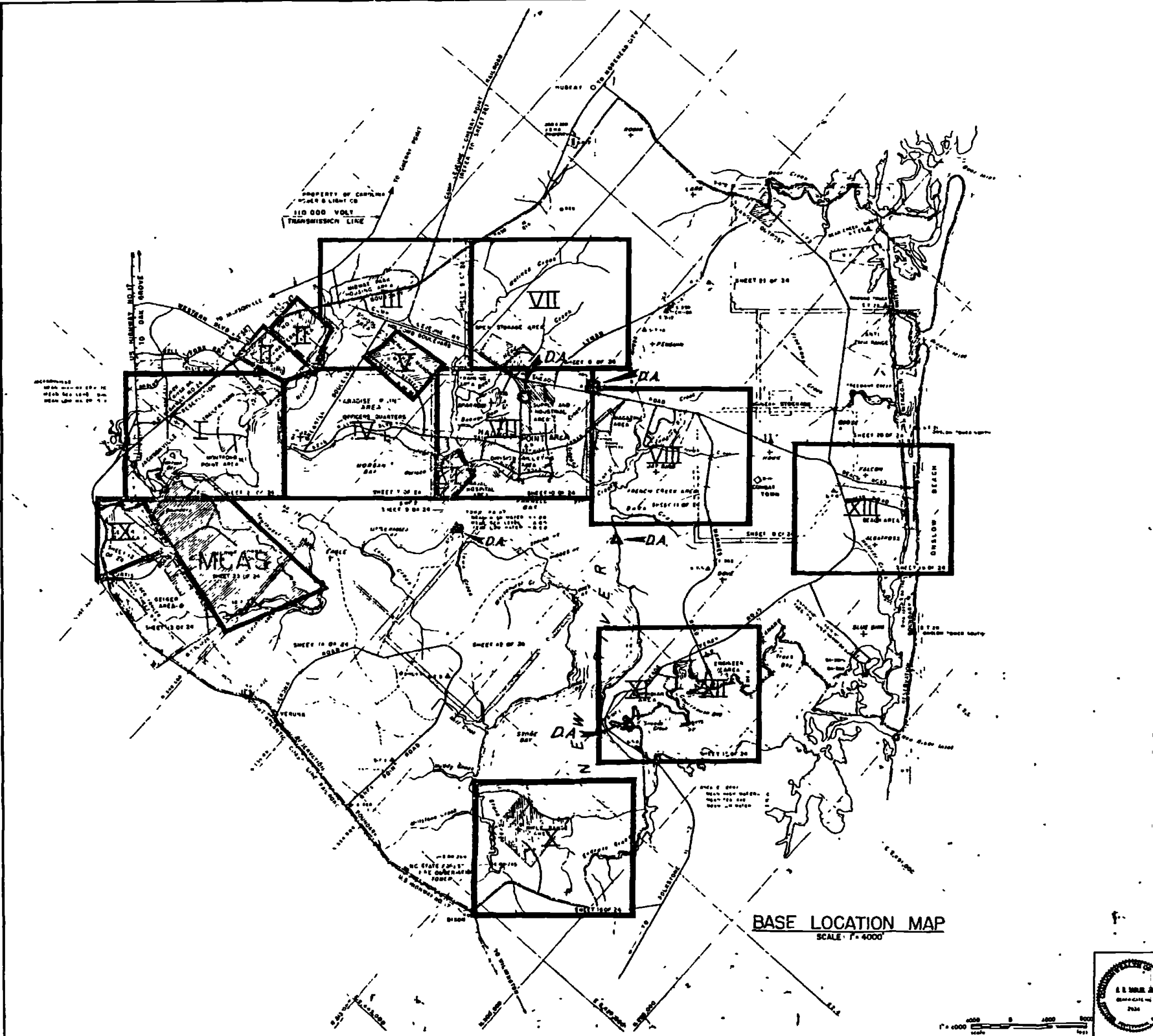
LEGEND

- DRAIN LINE
- STORM DRAIN AND SIZE
- SANITARY SEWER
- WATER LINE AND SIZE
- OVERFLOW LINE
- RAW WATER LINE
- BACKWASH LINE
- STEAM LINES
- STEAM LINES (OVERHEAD) ON POLES
- FOR: E MAIN
- TELEPHONE
- BOILER BLOWDOWN LINE
- ELECTRIC
- POWER POLE
- ROAD
- CONC WALK
- CURB
- BUILDINGS
- MANHOLE
- CATCH BASIN
- CONTOURS
- SPOT ELEVATION
- SPOT ELEVATION TO REMAIN
- GATE VALVE
- PLUG VALVE
- BLIND VALVE
- CHECK VALVE
- POST INDICATOR VALVE (PIV)
- BENCHMARK
- POINT OF CONNECTION TO EXISTING UTILITY
- BORING LOCATION AND NO
- WATER SPIGOT OR YARD HYDRANT
- CLEANOUT
- CONCRETE
- ASPHALT OR BITUMINOUS CONC
- CRUSHED STONE
- STRAW BALES
- SWALE OR DITCH &
- FENCE:
- BALL VALVE
- BALL JOINTS



RECORD DRAWING DATE 7/3/77	C-3
AUSTIN BROOKBROUGH AND ASSOCIATES Civil Engineers	ATLANTIC DIVISION
PROJ. NO. 462472 SHEET NO. 3 OF 11	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
DATE 7/14/77	GENERAL NOTES, ABBREVIATIONS AND LEGEND
SCALE 1" = 10'	CIVIL
DATE 7/14/77	4052472
DATE 7/14/77	462472
DATE 7/14/77	462472

152432



DISPOSAL AREAS (D.A.)

▲ - RUBBLE
 ○ - CONTAMINATED SOIL
 ○ - TANKS

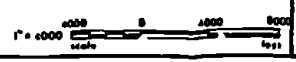
NOTE DISPOSAL AREAS FOR RUBBLE, CONTAMINATED SOIL AND TANKS GENERATED DURING CONSTRUCTION ARE LOCATED WHERE SHOWN

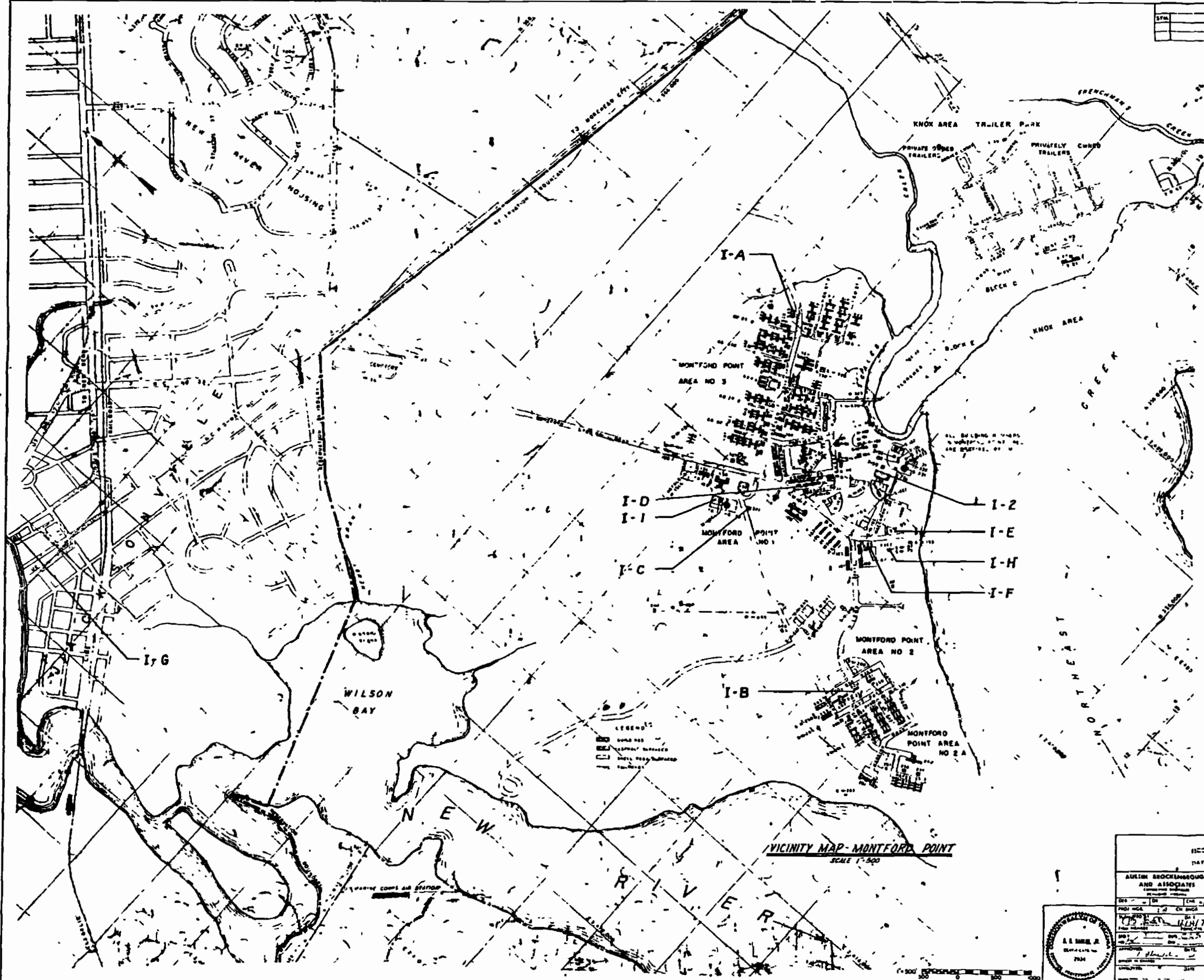
AREA INDEX

- | | |
|---------------------------------|------|
| MONTFORD POINT | I |
| TARAWA TERRACE 1-2 | II |
| MIDWAY PARK | III |
| PARADISE POINT | IV |
| BERKLEY MANOR | V |
| NAVAL HOSPITAL | VI |
| HADNOT POINT | VII |
| FRENCH CREEK | VIII |
| GEIGER | IX |
| RIFLE RANGE | X |
| AMPHIBIAN TROOPS (AMTRACK AREA) | XI |
| COURTHOUSE BAY | XII |
| BEACH | XIII |
| AIR STATION | MCAS |

BASE LOCATION MAP
 SCALE: 1" = 4000'

RECORD DRAWING DATE: FEB 11 1951	C-4
AUSTIN BROCKENBROUGH AND ASSOCIATES <small>(Professional Engineer)</small>	ATLANTIC DIVISION
THE ENGINEER OF THE DISTRICT OF COLUMBIA	NAVAL STATION
NAVY CORPS BASE	LAKE LEJEUNE NORTH CAROLINA
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	BASE LOCATION MAP
CIVIL	
PROJECT NO. 4052473	
DATE: 1/11/51	
BY: [Signature]	
CHECKED: [Signature]	
APPROVED: [Signature]	



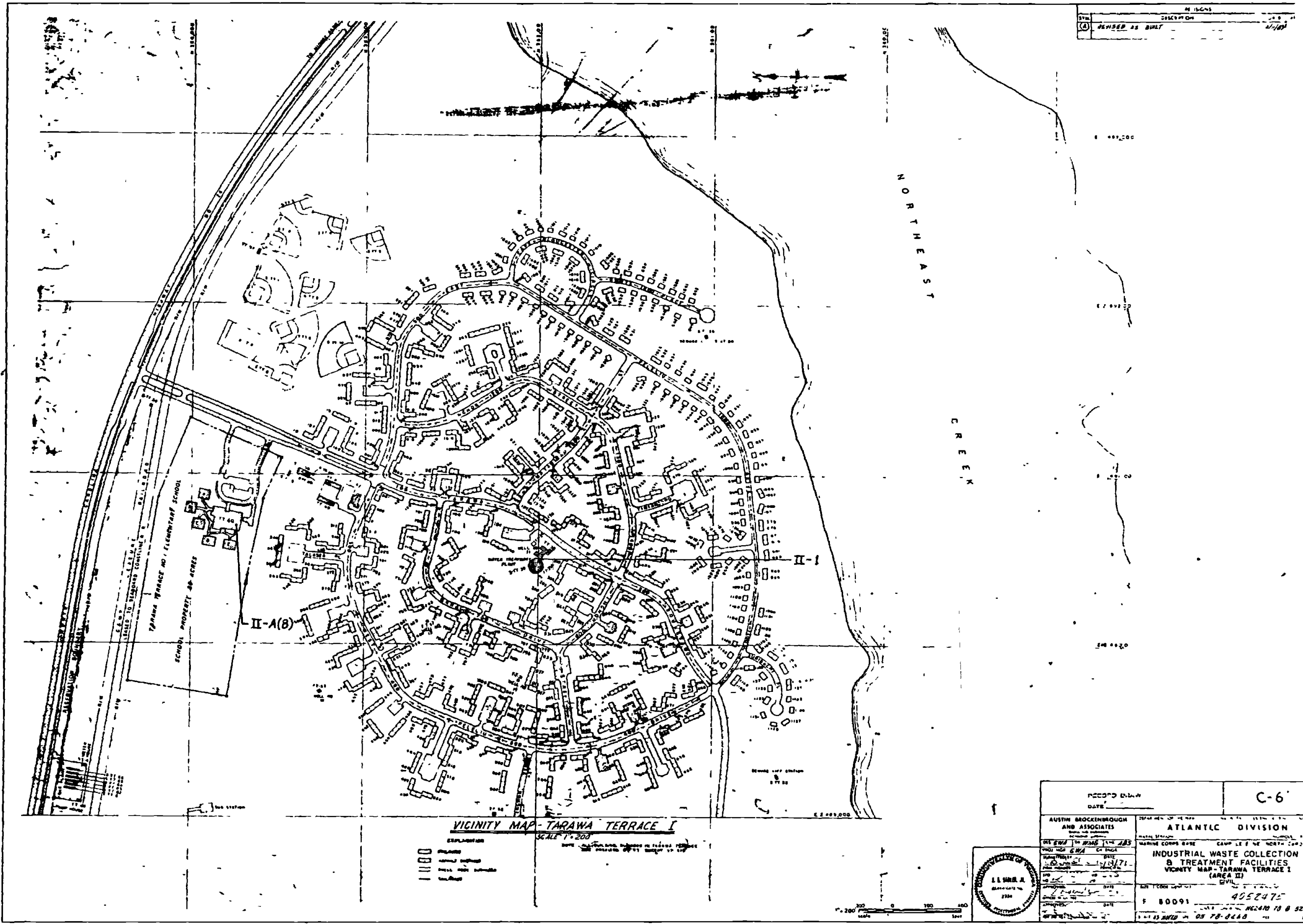


LEGEND
 [Symbol] SAND BAR
 [Symbol] WETLANDS
 [Symbol] OPEN SPACE
 [Symbol] ROAD

VICINITY MAP - MONTFORD POINT
 SCALE 1" = 500'



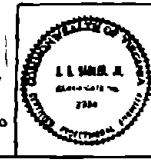
ISSUED BY FEB 11	C-5
AUREM BROCKENBROUGH AND ASSOCIATES ENGINEERS	ATLANTIC DIVISION
PROJECT NO. 1-2 CH 204	CAMP LEJEUNE NORTH CAROLINA
DATE 11/17/74	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - MONTFORD POINT (AREA I)
SCALE 1" = 500'	405-2174
PROJECT NO. 1-2 CH 204	F 80091
DATE 11/17/74	CLASS & CODE NO. 405-2174 13 B 0260
SCALE 1" = 500'	DATE 05 78 0260



VICINITY MAP-TARAWA TERRACE I
SCALE 1"=200'

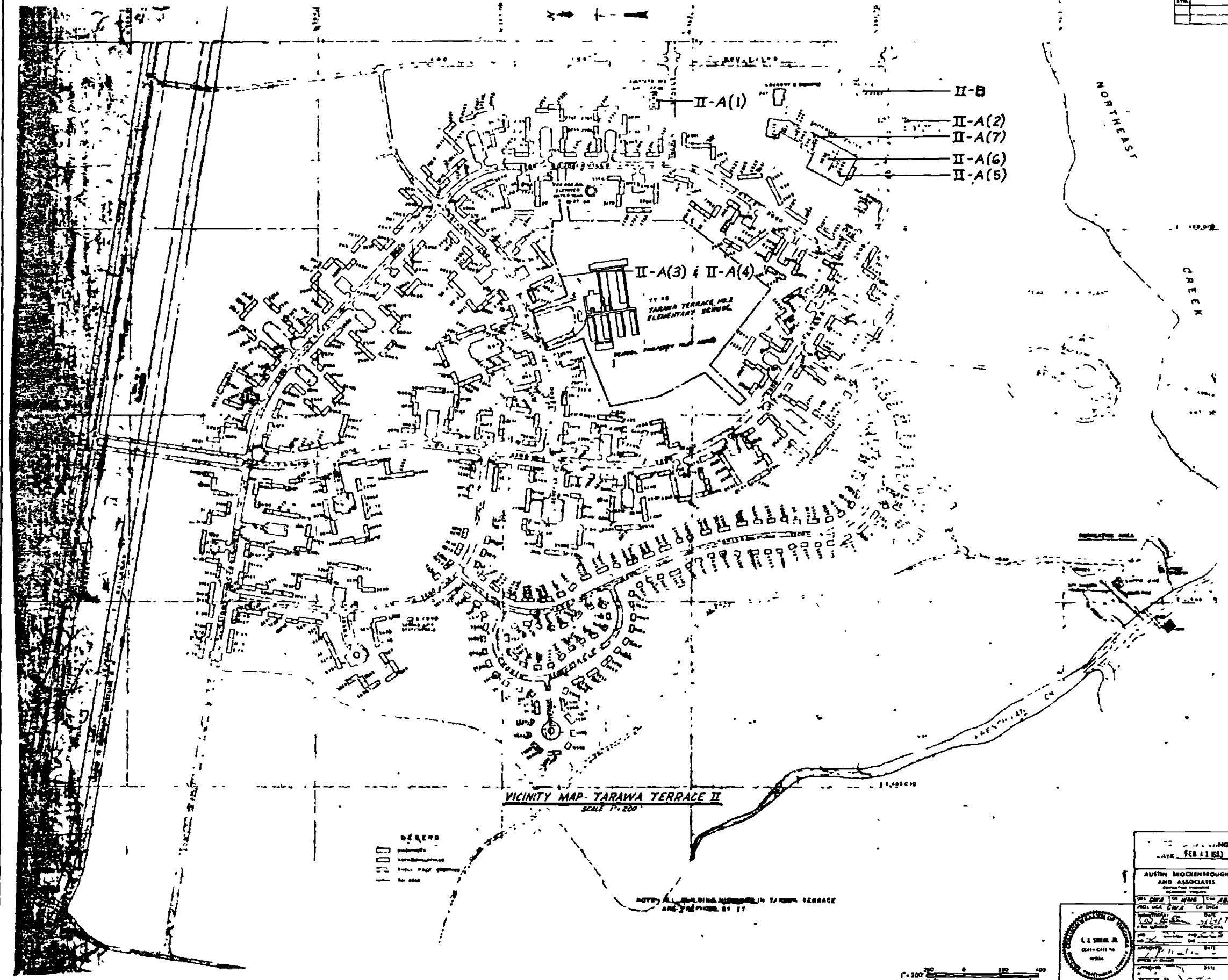
EXPLANATION
 IIII Road
 IIII Building
 IIII Building
 IIII Building

RECORD NO. & DATE		C-6	
AUSTIN BROCKENBROUGH AND ASSOCIATES			
MARINE COMPS BASE		ATLANTIC DIVISION	
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES		VICINITY MAP-TARAWA TERRACE I (AREA II)	
PROJECT NO. 495247		F 80091	
DATE 25 FEB 71		REVISED 25 FEB 71	



1"=200'

REVISIONS		
BY	DESCRIPTION	DATE



VICINITY MAP - TARAWA TERRACE II
SCALE 1" = 200'

- LEGEND
- BUILDING
 - STREET
 - RAILROAD
 - FENCE

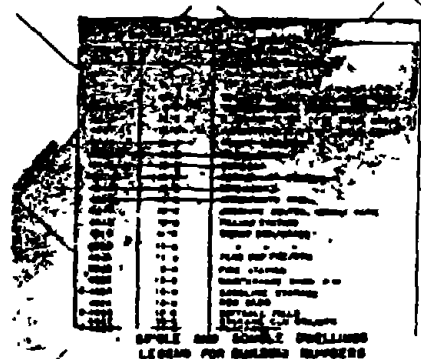
NOTE: ALL BUILDING NUMBERS IN TARAWA TERRACE ARE SHOWN BY IT



DATE: FEB 11 1951		C-7	
AUSTIN BROCKENBROUGH AND ASSOCIATES		DEPARTMENT OF THE ARMY	
MARINE CORPS BASE		ATLANTIC DIVISION	
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES		VICINITY MAP - TARAWA TERRACE II (AREA II)	
F 80091		405 2476	
DATE: FEB 11 1951		SCALE: 1" = 200'	

152476

NO.	DESCRIPTION	DATE

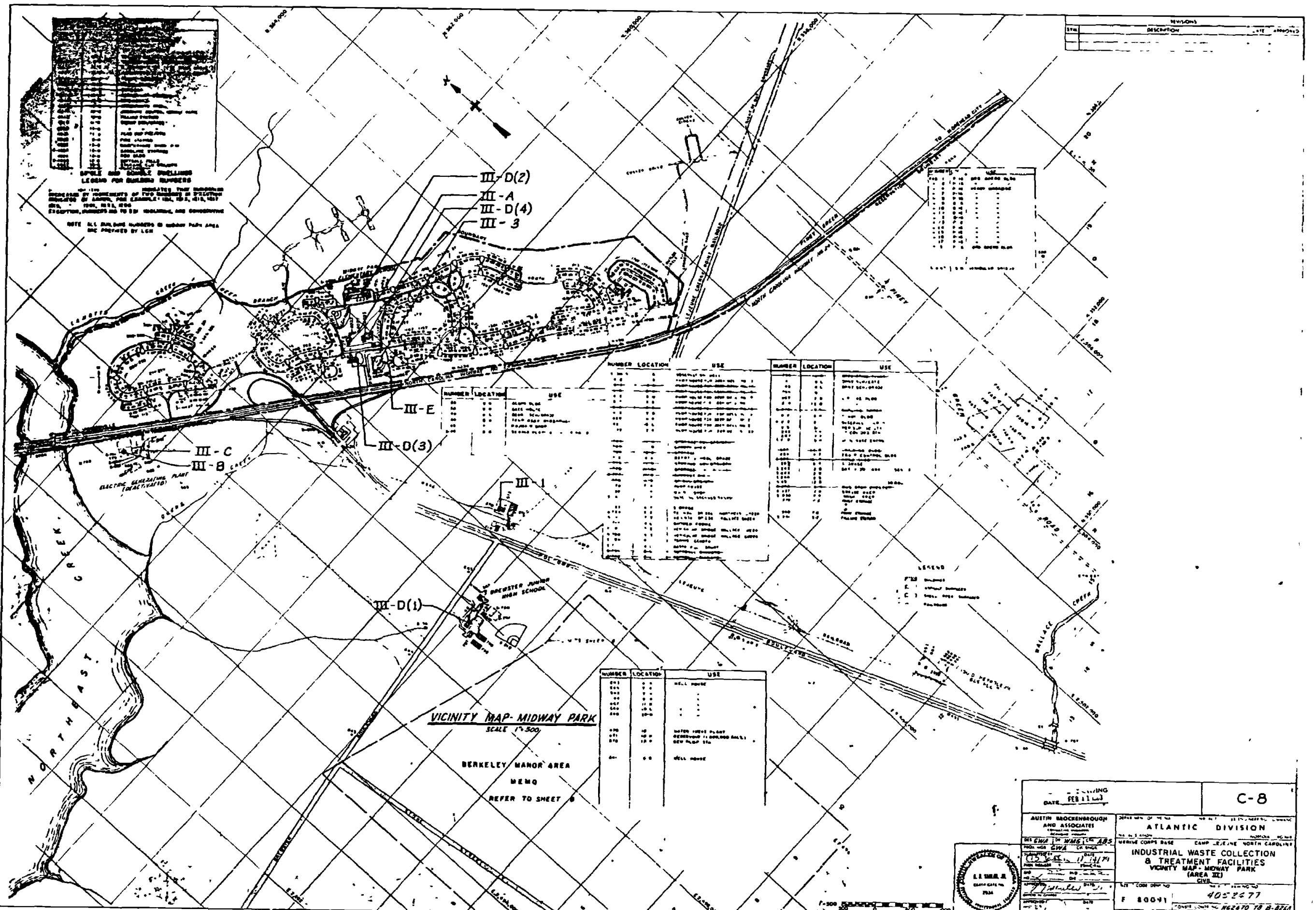


NOTE: 1. ALL BUILDING NUMBERS IN THIS PLAN ARE INDICATED BY THE SYMBOLS SHOWN IN THE LEGEND FOR BUILDING NUMBERS.

2. THE SIZE OF THE SYMBOLS IS PROPORTIONAL TO THE SQUARE FOOTAGE OF FLOOR AREA OF EACH BUILDING.

3. THE LOCATION OF EACH BUILDING IS INDICATED BY THE CENTER POINT OF THE SYMBOL.

NOTE: ALL BUILDING NUMBERS IN THIS PLAN ARE INDICATED BY THE SYMBOLS SHOWN IN THE LEGEND FOR BUILDING NUMBERS.



VICINITY MAP - MIDWAY PARK
 SCALE 1"=500'

BERKELEY MANOR AREA
 MEMO
 REFER TO SHEET 9

NUMBER	LOCATION	USE
101
102
103
104
105

NUMBER	LOCATION	USE
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120

NUMBER	LOCATION	USE
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120

NUMBER	LOCATION	USE
101
102
103
104
105
106

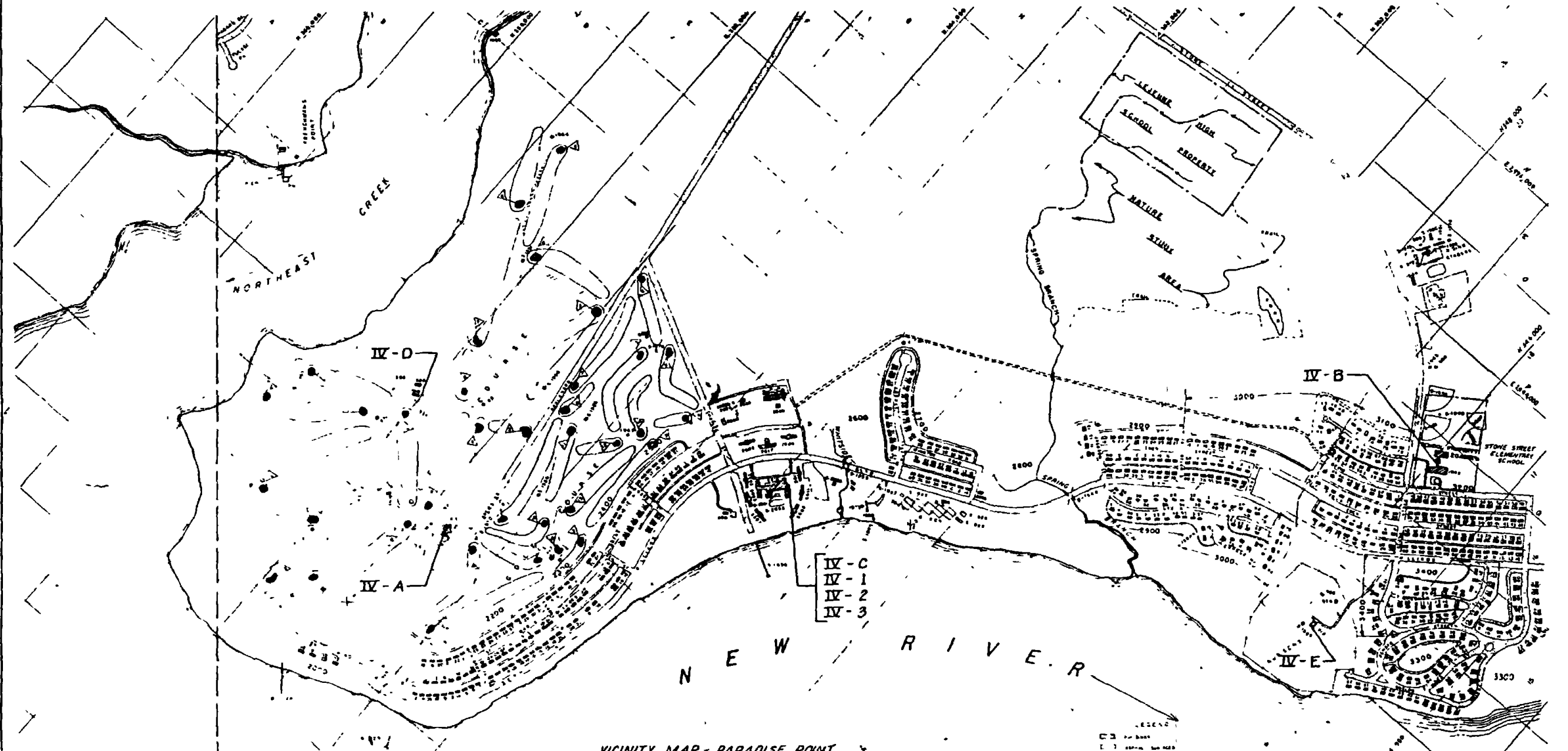
LEGEND

- Symbol: Building
- Symbol: Boundary
- Symbol: Road
- Symbol: Stream



DATE FEB 11 1954		C-8	
AUSTIN BROCKENBROUGH AND ASSOCIATES		ATLANTIC DIVISION	
2120 N. W. 13th St., Raleigh, N.C.		MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - MIDWAY PARK (AREA III)		SHEET NO. 4052477	
DATE: 1/11/54		F 80041	
SCALE: 1" = 500'		GENERAL CONTRACTOR: 05-70 2268	

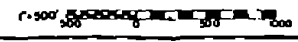
SYMBOL	DESCRIPTION	DATE	APPROVED



VICINITY MAP - PARADISE POINT
SCALE 1"=500'

- IV - C
- IV - 1
- IV - 2
- IV - 3

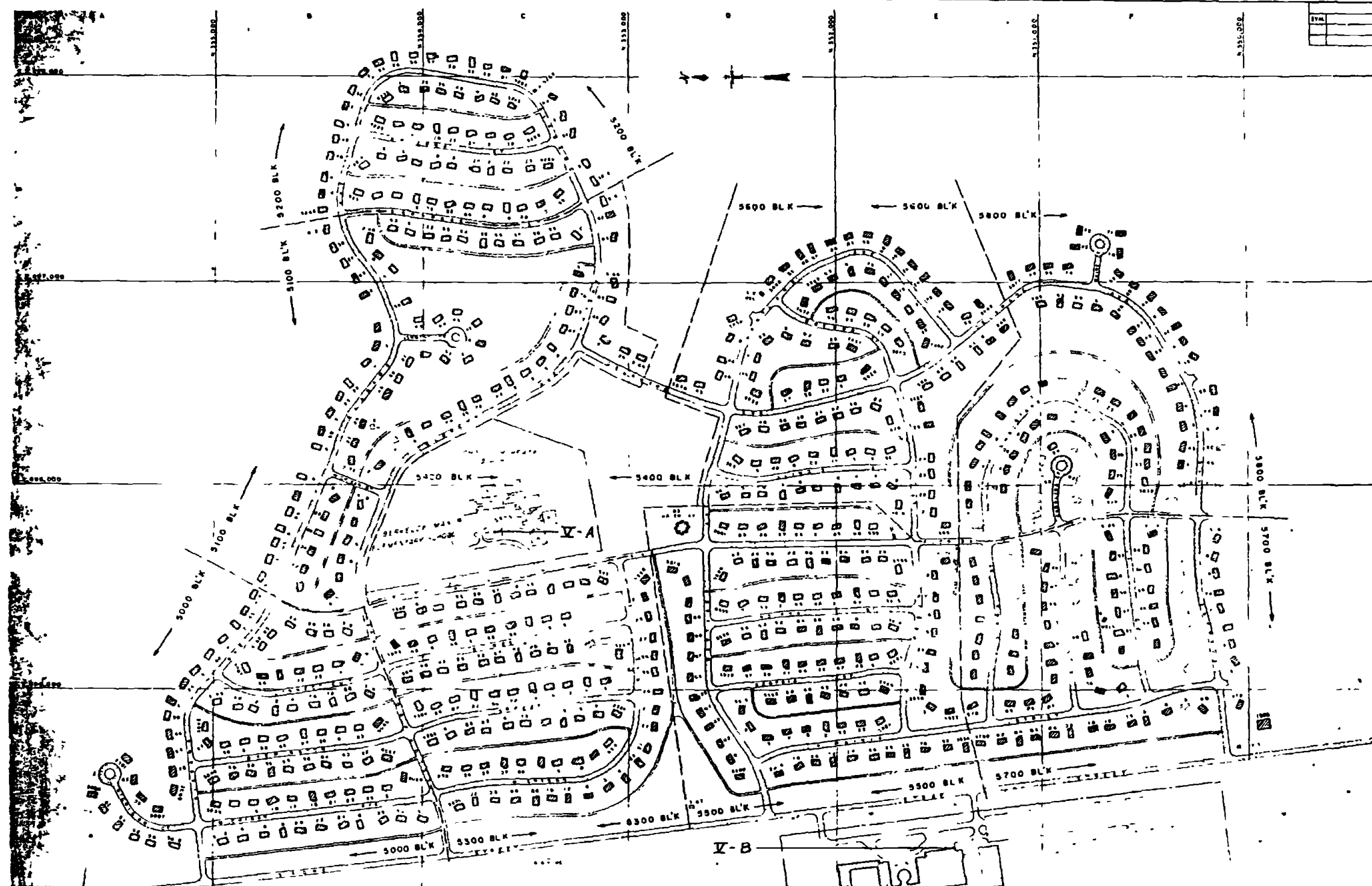
LEGEND
 □ Base
 --- Storm Sewer
 --- Sewer
 --- Water
 --- Gas
 --- Electric
 --- Telephone



RECORD DRAWING DATE FEB 11 1972	C-9
AUSTIN BROCKENBROUGH AND ASSOCIATES 1111 W. WINDY CREEK Raleigh, N.C. 27601	ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA
PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - PARADISE POINT (AREA IV)	DATE: 11/7/71
BY: [Signature]	DATE: 11/7/71
APPROVED: [Signature]	DATE: 11/7/71
SCALE: AS SHOWN	DATE: 05 78 0260



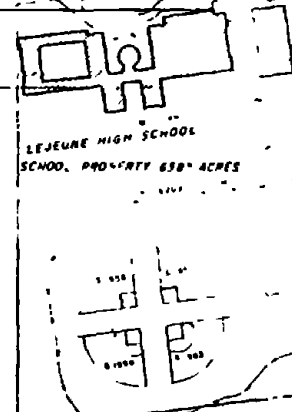
REVISIONS		
NO.	DESCRIPTION	DATE APPROVED



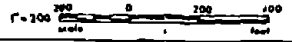
NO.	DESCRIPTION	LOCATION	USE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

LEGEND
 S - C - R - L - P
 ASPHALT SURFACE
 BLOCK BOUNDARY

VICINITY MAP - BERKELEY MANOR
 SCALE 1"=200'



RECORD DRAWING DATE FEB 11 1951	C-10
AUSTIN BROCKENBROUGH AND ASSOCIATES 1000 W. 10th St. Durham, N.C.	DEPARTMENT OF THE ARMY ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA
PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - BERKELEY MANOR (AREA 'B')	DATE: 12/14/50
APPROVED: [Signature]	DATE: 1/11/51
PROJECT NO. 405279	DATE: 05 78 8263



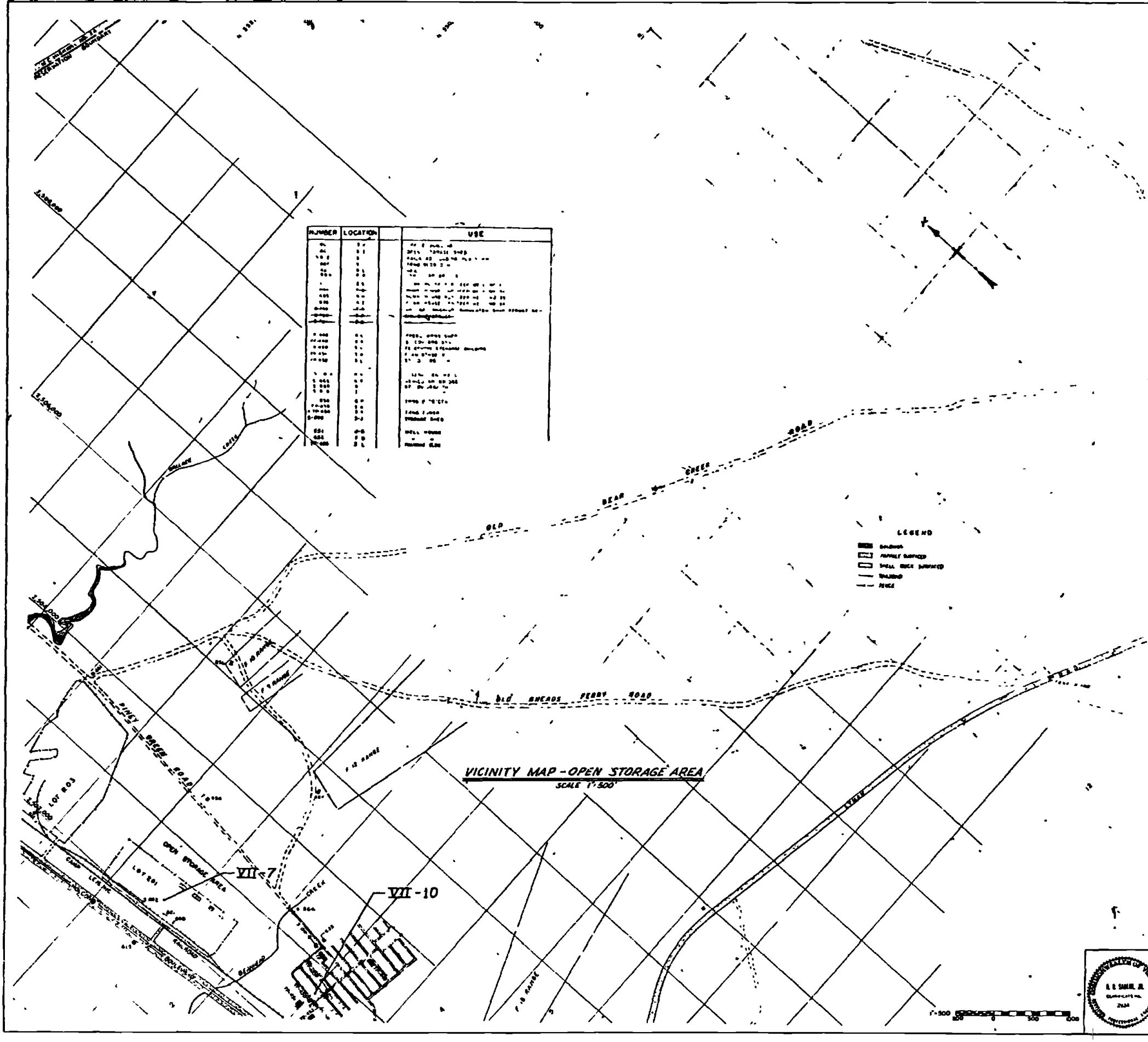
NUMBER	LOCATION	USE
101		
102		
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150		

LEGEND

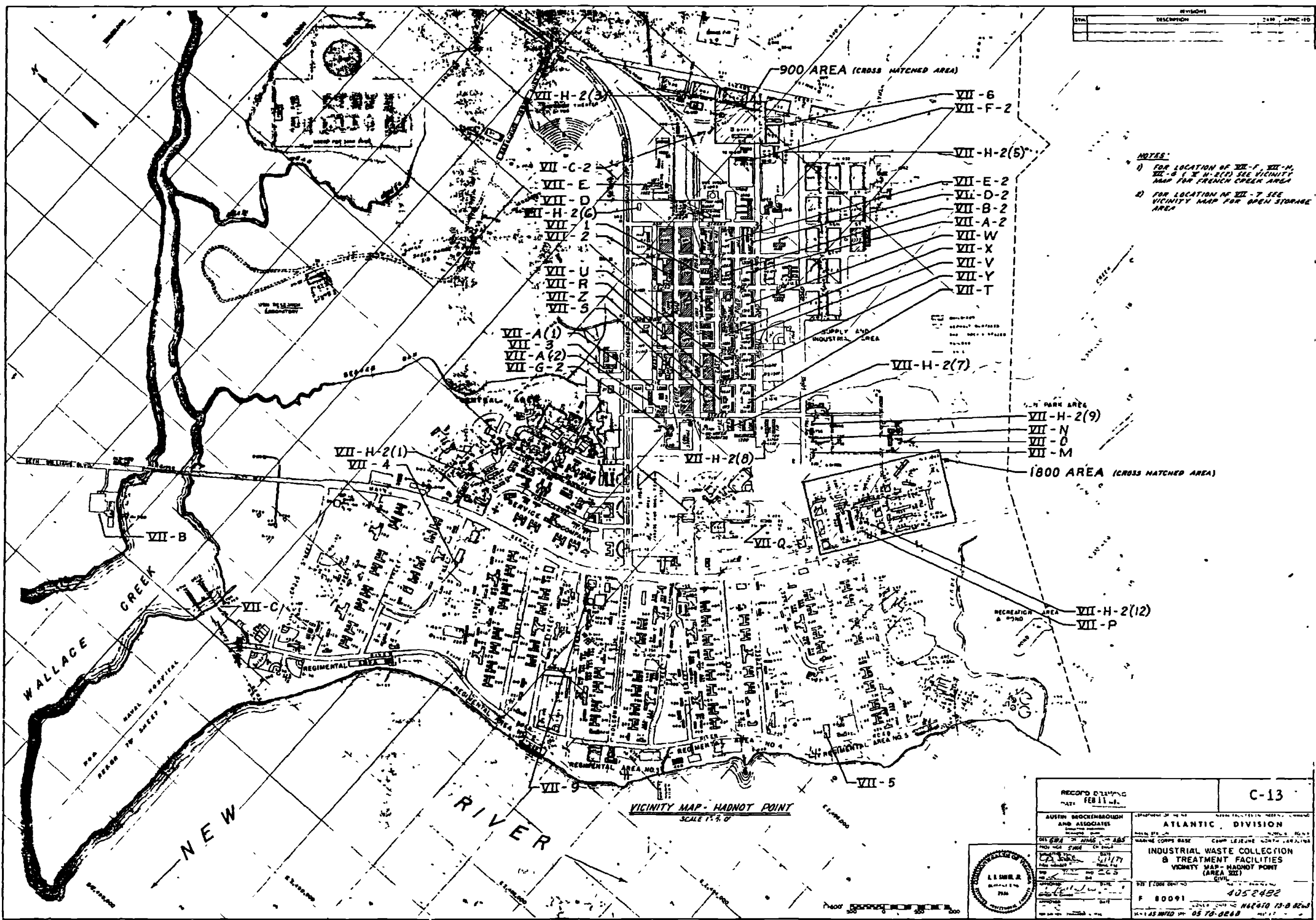
- BOUNDARY
- PROPERTY BOUNDARY
- SMALL ROCK BOUNDARY
- RAILROAD
- FENCE

VICINITY MAP - OPEN STORAGE AREA
SCALE 1"=500'

RECORD DRAWING FEB 11 1971	C-12
AUSTIN MCKENBROUGH AND ASSOCIATES ENGINEERS	ATLANTIC DIVISION
DRG. NO. 4052451	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - OPEN STORAGE AREA (AREA VII)
PROJECT NO. 4052451	DATE: 11/14/70
BY: [Signature]	SCALE: AS NOTED
APPROVED: [Signature]	DATE: 11/14/70
PROJECT NO. 4052451	DATE: 11/14/70
PROJECT NO. 4052451	DATE: 11/14/70



SYMBOL	DESCRIPTION	DATE	APPROVED



- NOTES:**
- 1) FOR LOCATION OF VII-F, VII-H, VII-B (X H-2(2)) SEE VICINITY MAP FOR FRENCH CREEK AREA
 - 2) FOR LOCATION OF VII-7 SEE VICINITY MAP FOR OPEN STORAGE AREA

- VII-6
- VII-F-2
- VII-H-2(5)
- VII-E-2
- VII-D-2
- VII-B-2
- VII-A-2
- VII-W
- VII-X
- VII-V
- VII-Y
- VII-T

- VII-H-2(3)
- VII-C-2
- VII-E
- VII-D
- VII-H-2(6)
- VII-2
- VII-U
- VII-R
- VII-Z
- VII-S
- VII-A(1)
- VII-3
- VII-A(2)
- VII-G-2

- VII-H-2(9)
- VII-N
- VII-O
- VII-M

- VII-H-2(1)
- VII-4

- VII-H-2(8)

1800 AREA (CROSS HATCHED AREA)

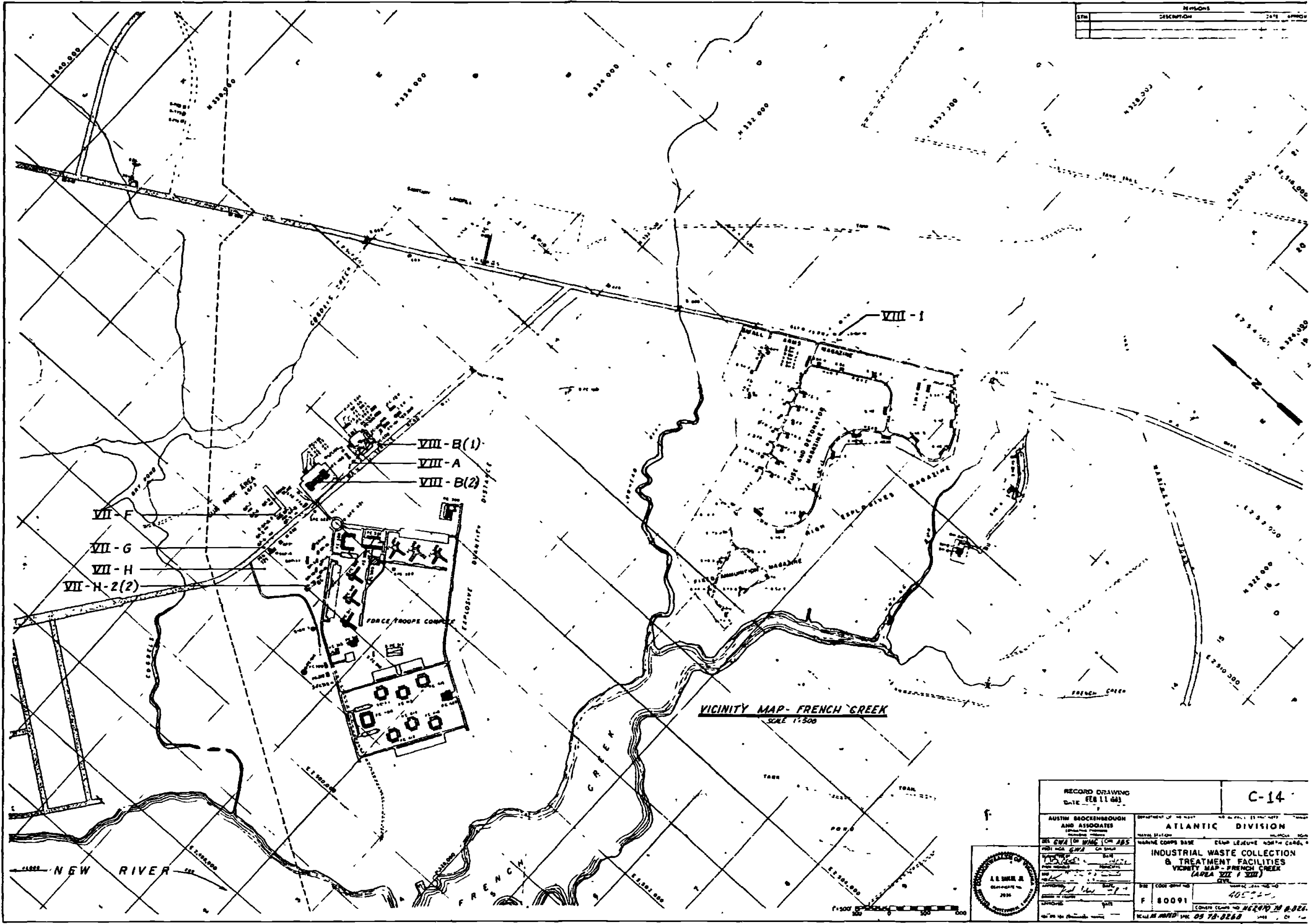
- VII-H-2(12)
- VII-P

VICINITY MAP - HADNOT POINT
SCALE 1" = 50'

RECORDS DIVISION DATE FEB 11 1968	C-13
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS	ATLANTIC DIVISION
PROJECT NAME: CAMP LEJEUNE WASTE TREATMENT FACILITIES VICINITY MAP - HADNOT POINT (AREA VII)	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - HADNOT POINT (AREA VII)
DATE: 1/17/68	4052482
F 80091	12

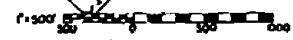


REV	DESCRIPTION	DATE	BY

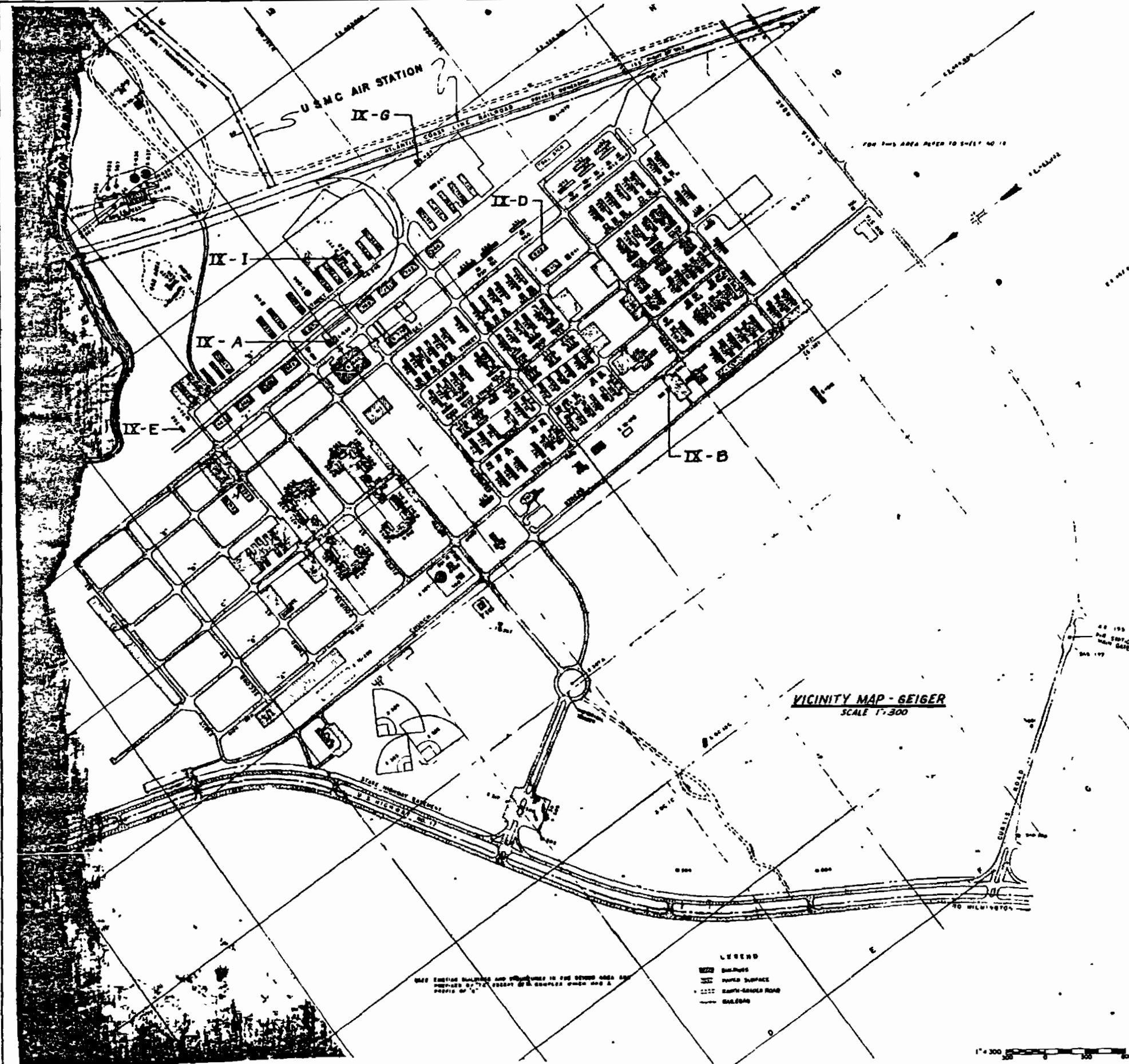


VICINITY MAP - FRENCH CREEK
SCALE 1:500

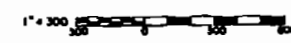
RECORD DRAWING DATE FEB 11 64	C-14
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 1000 W. 10th St. DALLAS, TEXAS 75201	DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION EGG HARBEN NASC EGG HARBEN, NEW JERSEY
BY: [Signature] DATE: [Date]	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - FRENCH CREEK (AREA VII & VIII)
PROJECT NO. 40524	NAVY CODE SHEET NO. F 80091
SCALE AS SHOWN	CONTRACT NO. N62470-60-0000



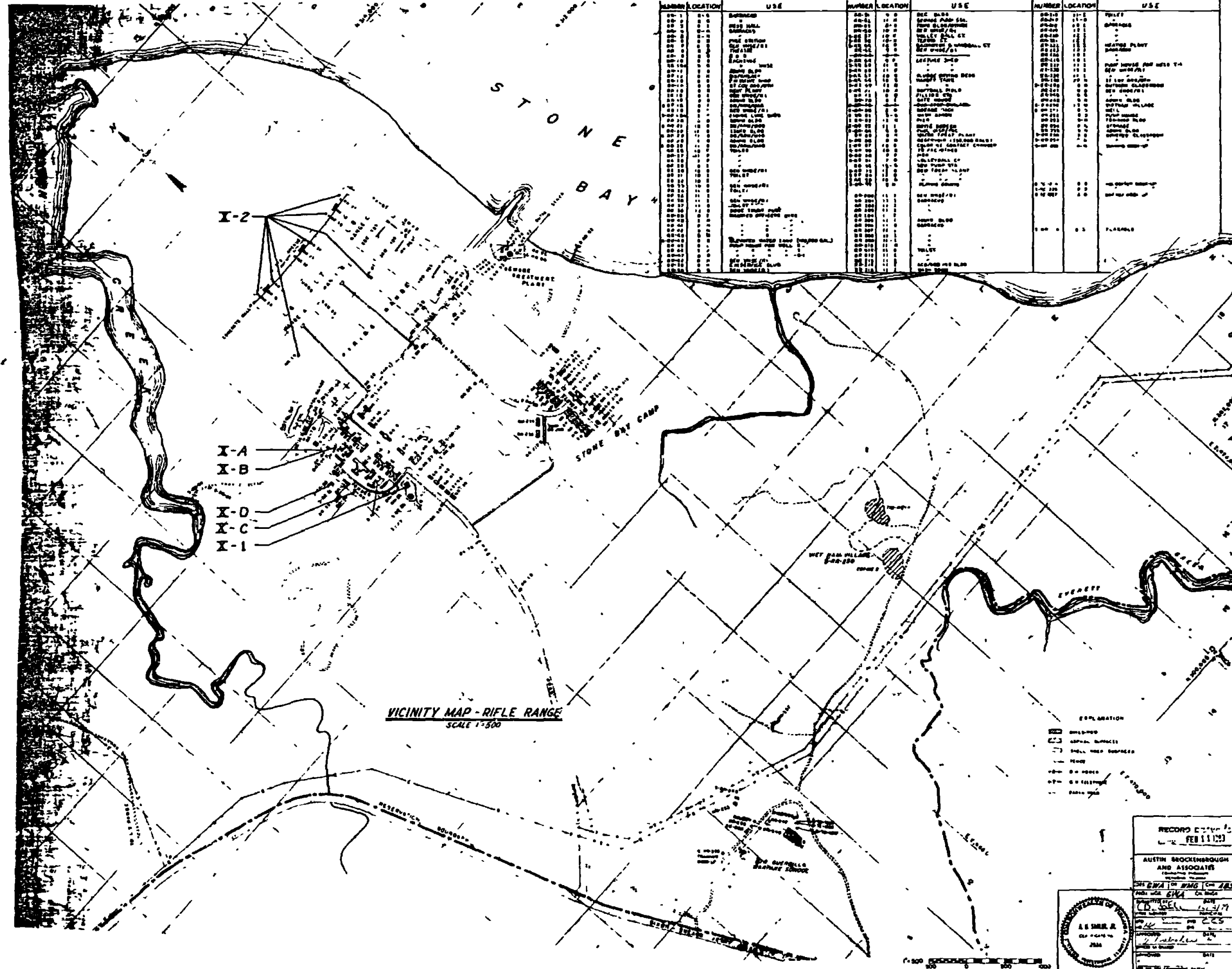
DATE	DESCRIPTION	DATE APPROVED



RECORDS	C-15
DATE FEB 11 1963	
AUSTIN MOCKENBROUGH AND ASSOCIATES	ATLANTIC DIVISION
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - GEIGER (AREA IX)	
F 80091	



NUMBER	LOCATION	USE	NUMBER	LOCATION	USE	NUMBER	LOCATION	USE
00-1	00-1	00-1	00-1	00-1	00-1	00-1	00-1	00-1
00-2	00-2	00-2	00-2	00-2	00-2	00-2	00-2	00-2
00-3	00-3	00-3	00-3	00-3	00-3	00-3	00-3	00-3
00-4	00-4	00-4	00-4	00-4	00-4	00-4	00-4	00-4
00-5	00-5	00-5	00-5	00-5	00-5	00-5	00-5	00-5
00-6	00-6	00-6	00-6	00-6	00-6	00-6	00-6	00-6
00-7	00-7	00-7	00-7	00-7	00-7	00-7	00-7	00-7
00-8	00-8	00-8	00-8	00-8	00-8	00-8	00-8	00-8
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00-18	00-18	00-18	00-18	00-18	00-18	00-18	00-18	00-18
00-19	00-19	00-19	00-19	00-19	00-19	00-19	00-19	00-19
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00-21	00-21	00-21	00-21	00-21	00-21	00-21	00-21	00-21
00-22	00-22	00-22	00-22	00-22	00-22	00-22	00-22	00-22
00-23	00-23	00-23	00-23	00-23	00-23	00-23	00-23	00-23
00-24	00-24	00-24	00-24	00-24	00-24	00-24	00-24	00-24
00-25	00-25	00-25	00-25	00-25	00-25	00-25	00-25	00-25
00-26	00-26	00-26	00-26	00-26	00-26	00-26	00-26	00-26
00-27	00-27	00-27	00-27	00-27	00-27	00-27	00-27	00-27
00-28	00-28	00-28	00-28	00-28	00-28	00-28	00-28	00-28
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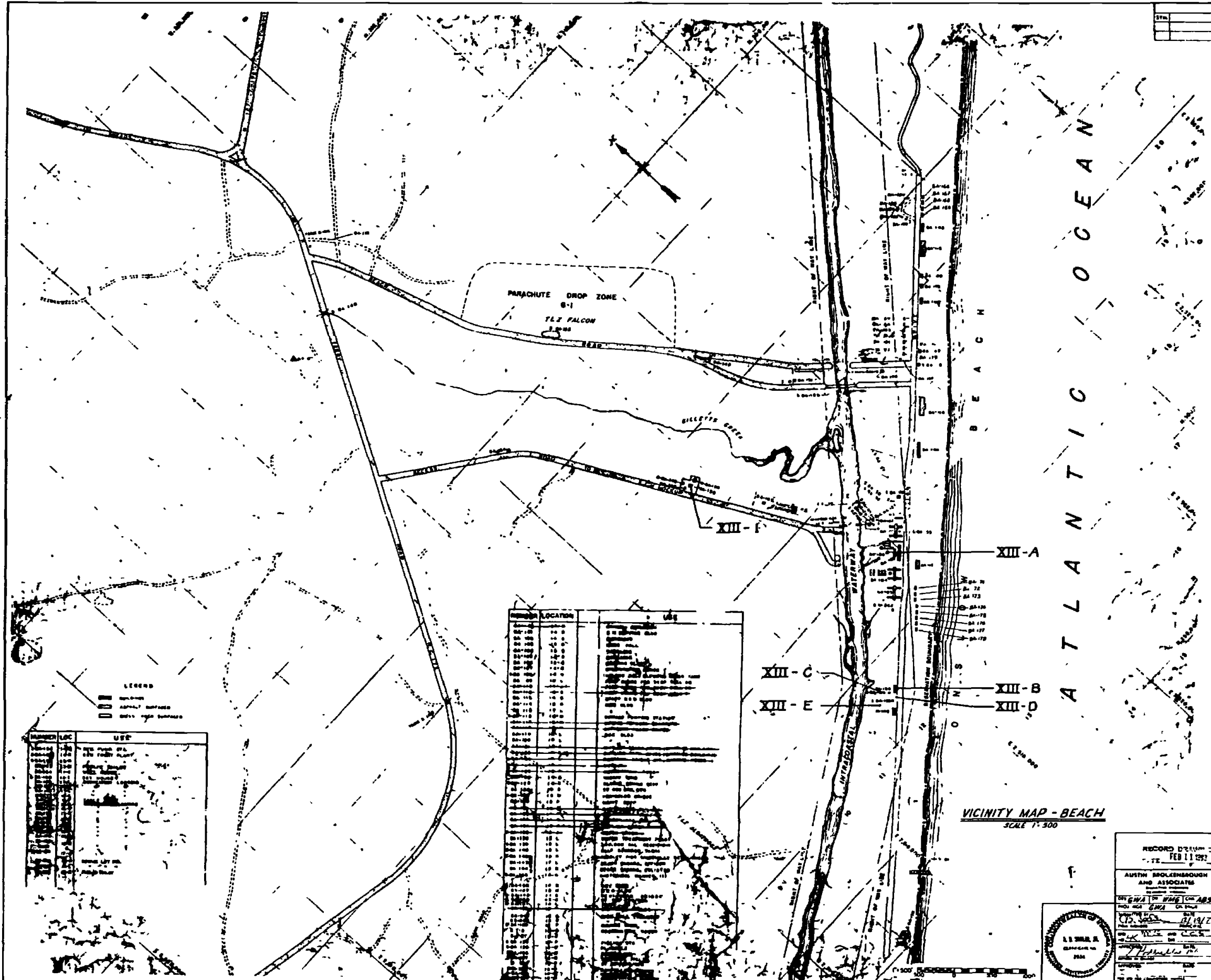


- EXPLANATION**
- BUILT-UP
 - ▨ SPECIAL SURFACE
 - ▧ SHALL NOT SURFACE
 - ROAD
 - ON ROAD
 - - - ON HIGHWAY
 - FENCE LINE

RECORD NUMBER FEB 11 1951		C-16	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS	DEPARTMENT OF THE NAVY NAVY FACILITIES ENGINEERING DIVISION	ATLANTIC DIVISION	
PROJECT NO. 6161 DATE 12/2/51	MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES VICINITY MAP - RIFLE RANGE (AREA 3)	
DRAWN BY [Signature] DATE 1/2/52	CHECKED BY [Signature] DATE 1/2/52	SHEET NO. 80091	TOTAL SHEETS 112



SCALE 1:500

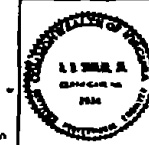
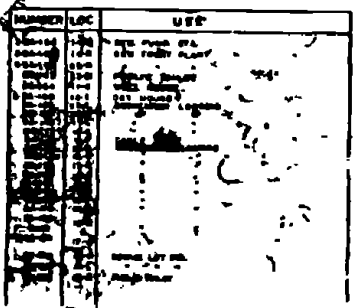


ATLANTIC OCEAN

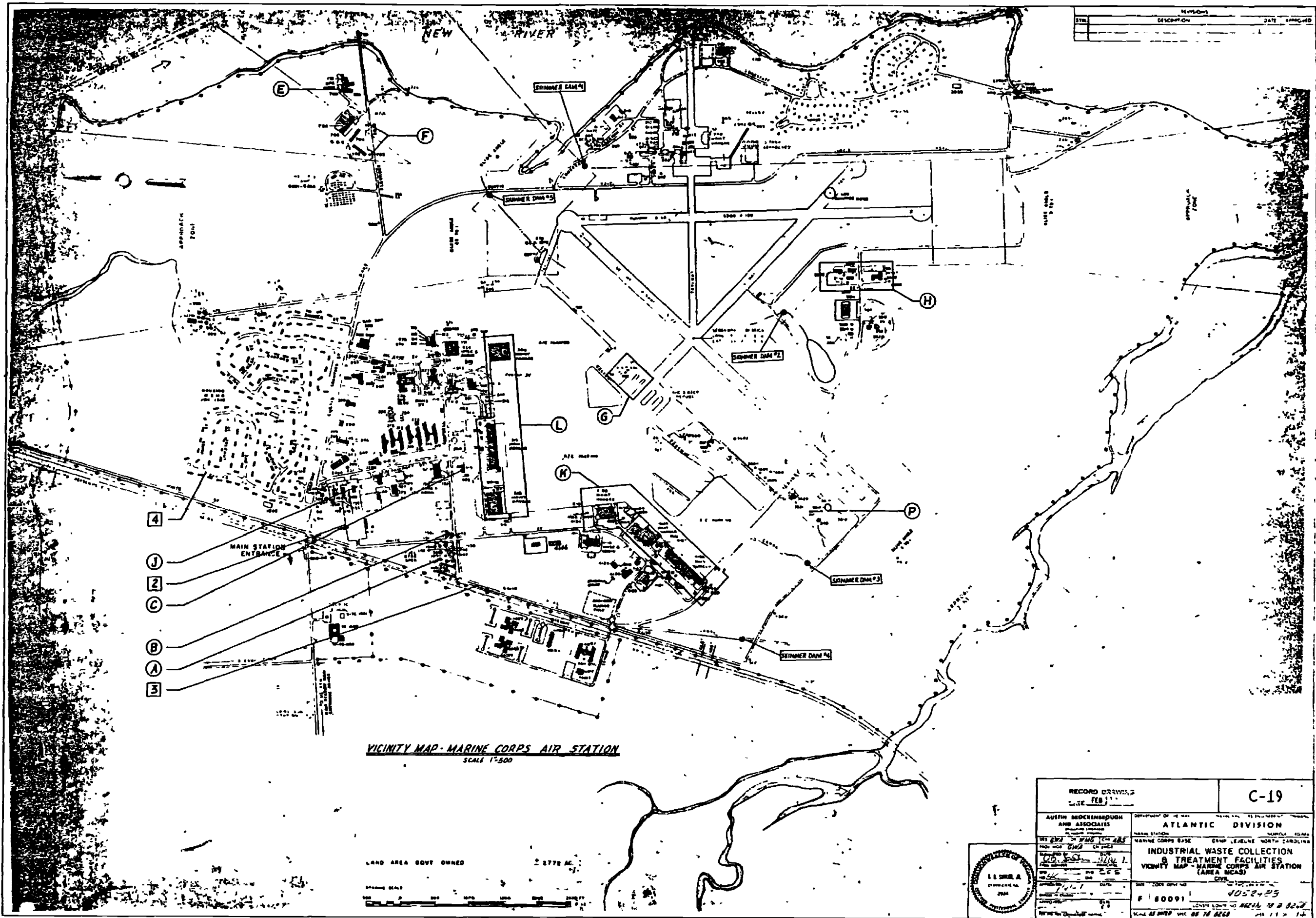
VICINITY MAP - BEACH
SCALE 1" = 500'

LOCATION	DESCRIPTION
XIII-A	...
XIII-B	...
XIII-C	...
XIII-D	...
XIII-E	...
XIII-F	...
XIII-G	...
XIII-H	...
XIII-I	...
XIII-J	...
XIII-K	...
XIII-L	...
XIII-M	...
XIII-N	...
XIII-O	...
XIII-P	...
XIII-Q	...
XIII-R	...
XIII-S	...
XIII-T	...
XIII-U	...
XIII-V	...
XIII-W	...
XIII-X	...
XIII-Y	...
XIII-Z	...

LEGEND
 ...
 ...
 ...



RECORD DRAWING DATE: FEB 11 1971	C-18.
AUSTIN BROKENBROUGH AND ASSOCIATES ENGINEERS	ATLANTIC DIVISION
PROJECT NO. 4052497	CAMP LEJUNE NORTH CAROLINA
INDUSTRIAL WASTE COLLECTION B TREATMENT FACILITIES VICINITY MAP - BEACH (AREA XIII)	
DATE: FEB 11 1971	
SCALE: 1" = 500'	
DATE: FEB 11 1971	

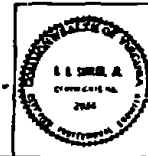


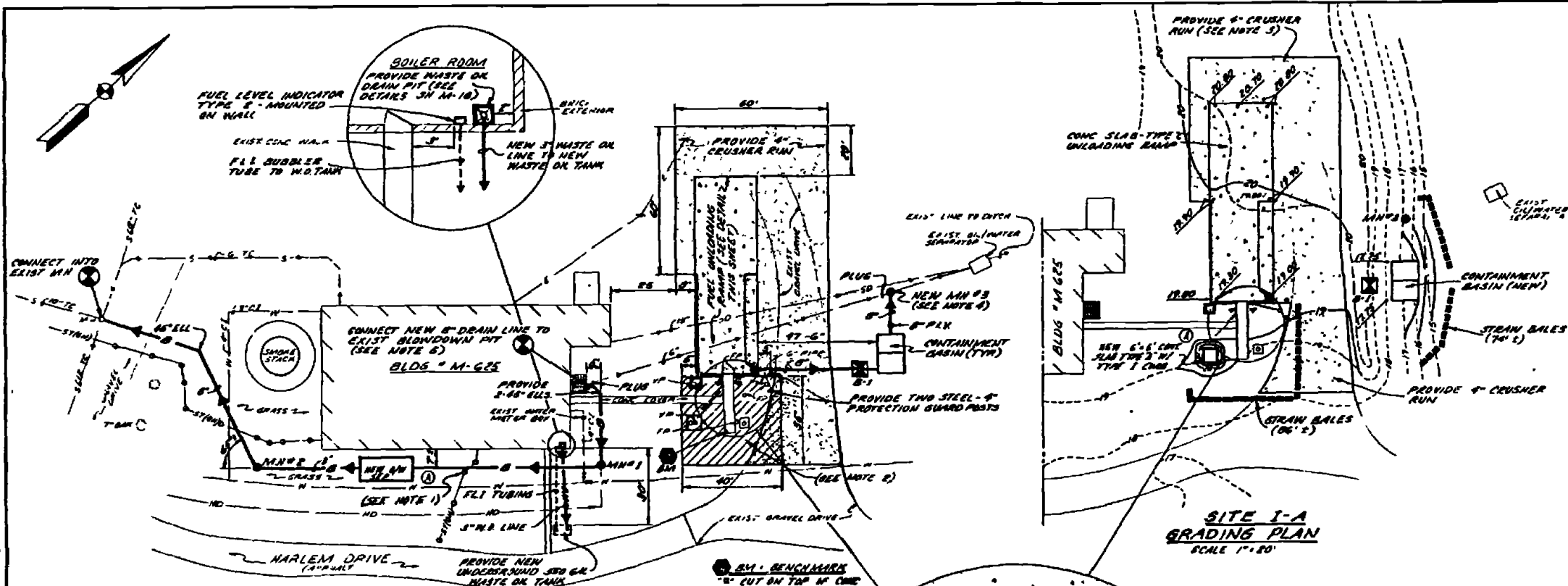
SYMBOL	DESCRIPTION	DATE	APPROVED

VICINITY MAP - MARINE CORPS AIR STATION
SCALE 1"=500'

LAND AREA GOVT OWNED 2778 AC.
 DRAWING SCALE 1"=500'

RECORD DRAWING DATE FEB 1954	C-19
AUSTIN MOCKENBUGH AND ASSOCIATES ENGINEERS ARCHITECTS	ATLANTIC DIVISION
PROJECT NO. 4052425	NAME STATION: MARINE CORPS AIR STATION
DESIGNED BY: [Signature]	LOCATION: CAMP LEWELINE NORTH CAROLINA
CHECKED BY: [Signature]	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
DATE: 1/11/54	VICINITY MAP - MARINE CORPS AIR STATION (AREA MCAS)
SCALE: AS SHOWN ON 10 8268	4052425
	F 80091

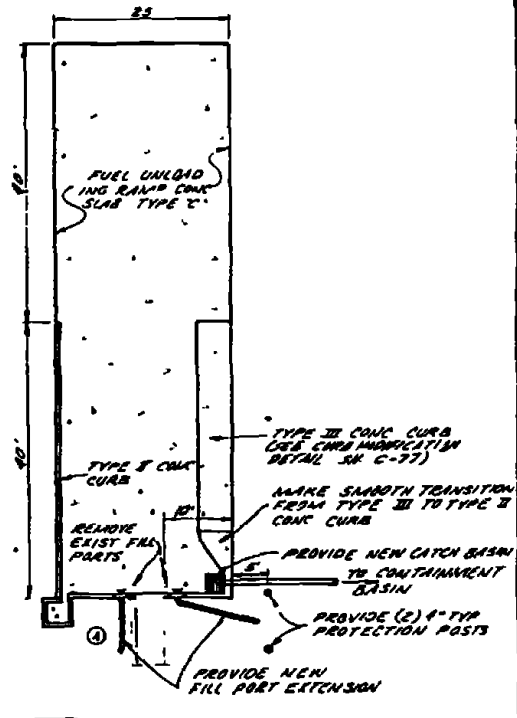
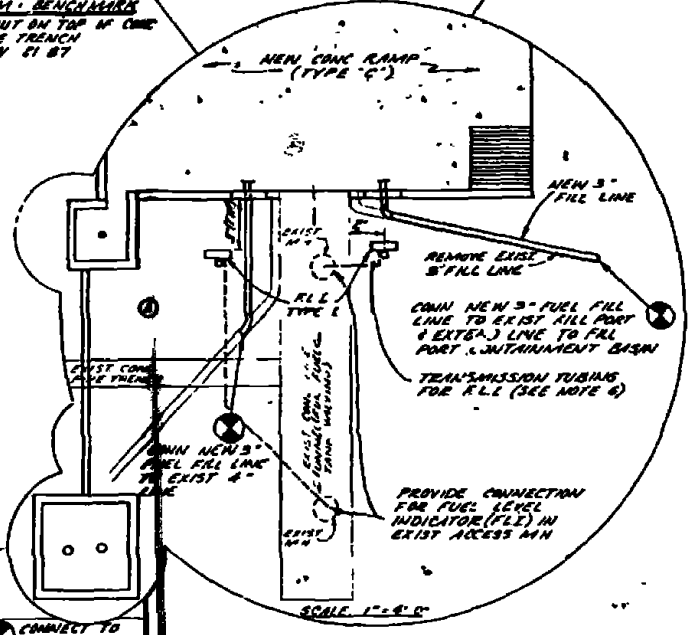




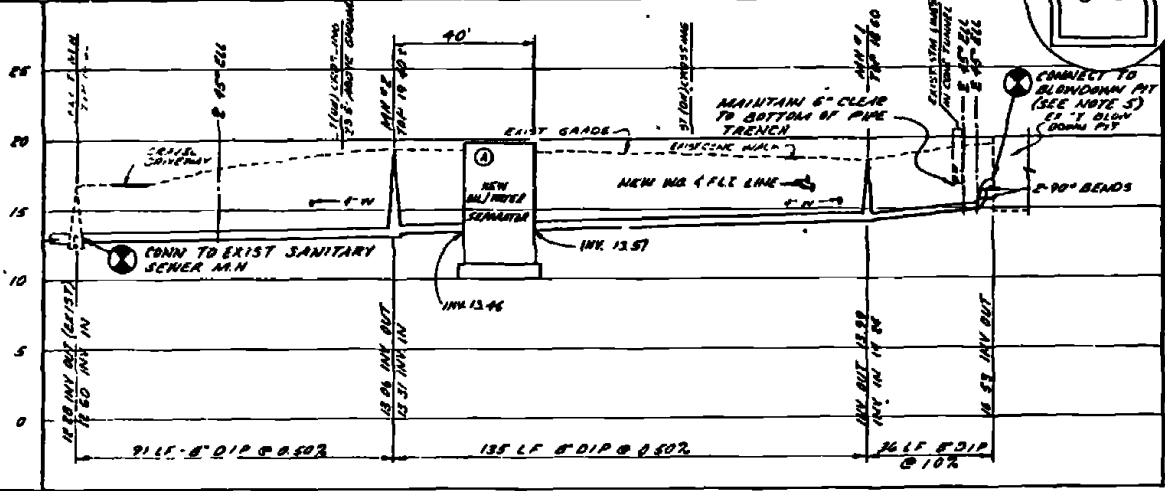
SITE I-A LAYOUT PLAN
 SCALE 1"=20'

SITE I-A GRADING PLAN
 SCALE 1"=20'

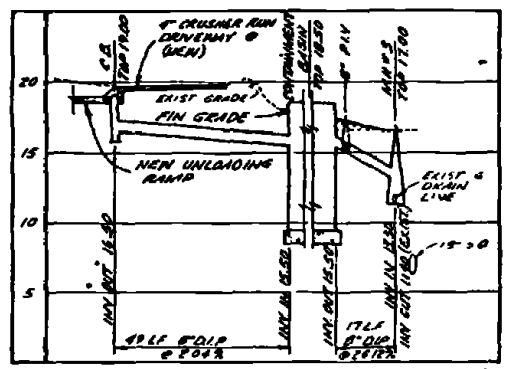
- NOTES**
1. CONTRACTOR SHALL SUPPORT STEAM LINES DURING INSTALLATION OF BLOWDOWN LINES
 2. CROSS MATCHING INDICATES AREA OF OX CONTAMINATED SOIL REMOVE TOP 8 INCHES AND REPLACE TO GRADE WITH 81 FREE TOPSOIL
 3. REGRADE AREA AROUND UNLOADING RAMP PROVIDING 4" CRUSHER RUN GRADE STONE IN AREAS INDICATED
 4. PROVIDE NEW MANHOLE DIRECTLY OVER EXIST 6" DRAIN FROM THE BLOWDOWN PIT PLUS AND ABANDON EXIST 6" DRAIN LINE ENTERING NEW MANHOLE FOLLOWING INSTALLATION
 5. CONTRACTOR SHALL CONNECT NEW 8" DRAIN LINE TO THE EXIST BLOWDOWN PIT AT SAME INVERT ELEVATION AS EXIST BLOWDOWN LINE PLUS AND ABANDON EXIST 6" LINE FROM THE BLOWDOWN PIT FOLLOWING INSTALLATION OF NEW LINE
 6. FOR DETAILS OF FUEL LEVEL INDICATOR TYPE 1, SEE SHEET M-17



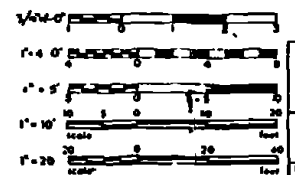
PLAN - FUEL UNLOADING RAMP DETAIL
 SCALE 1"=10'



PROFILE - BOILER BLOWDOWN DRAIN LINE
 SCALE 1"=5' (VERT) 1"=20' (HORIZ)

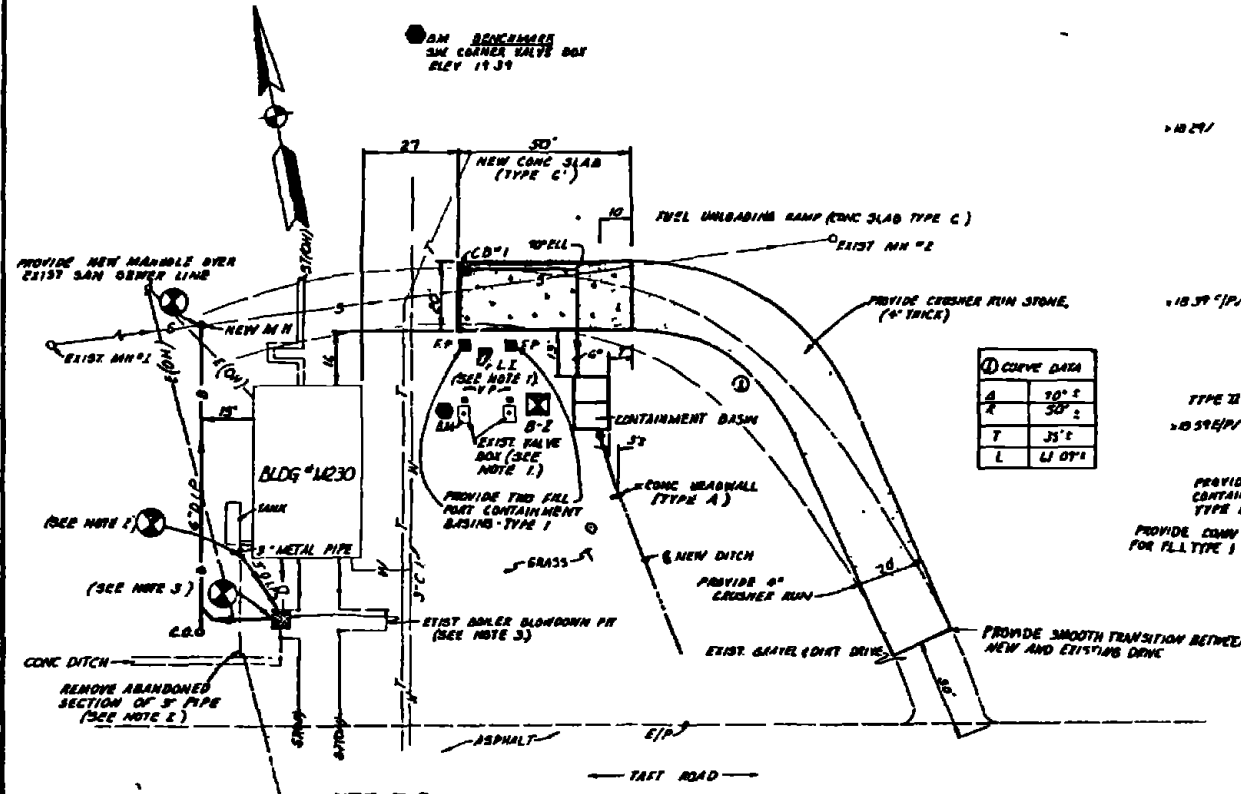


PROFILE - UNLOADING RAMP DISCHARGE LINE
 SCALE 1"=5' (VERT) 1"=20' (HORIZ)

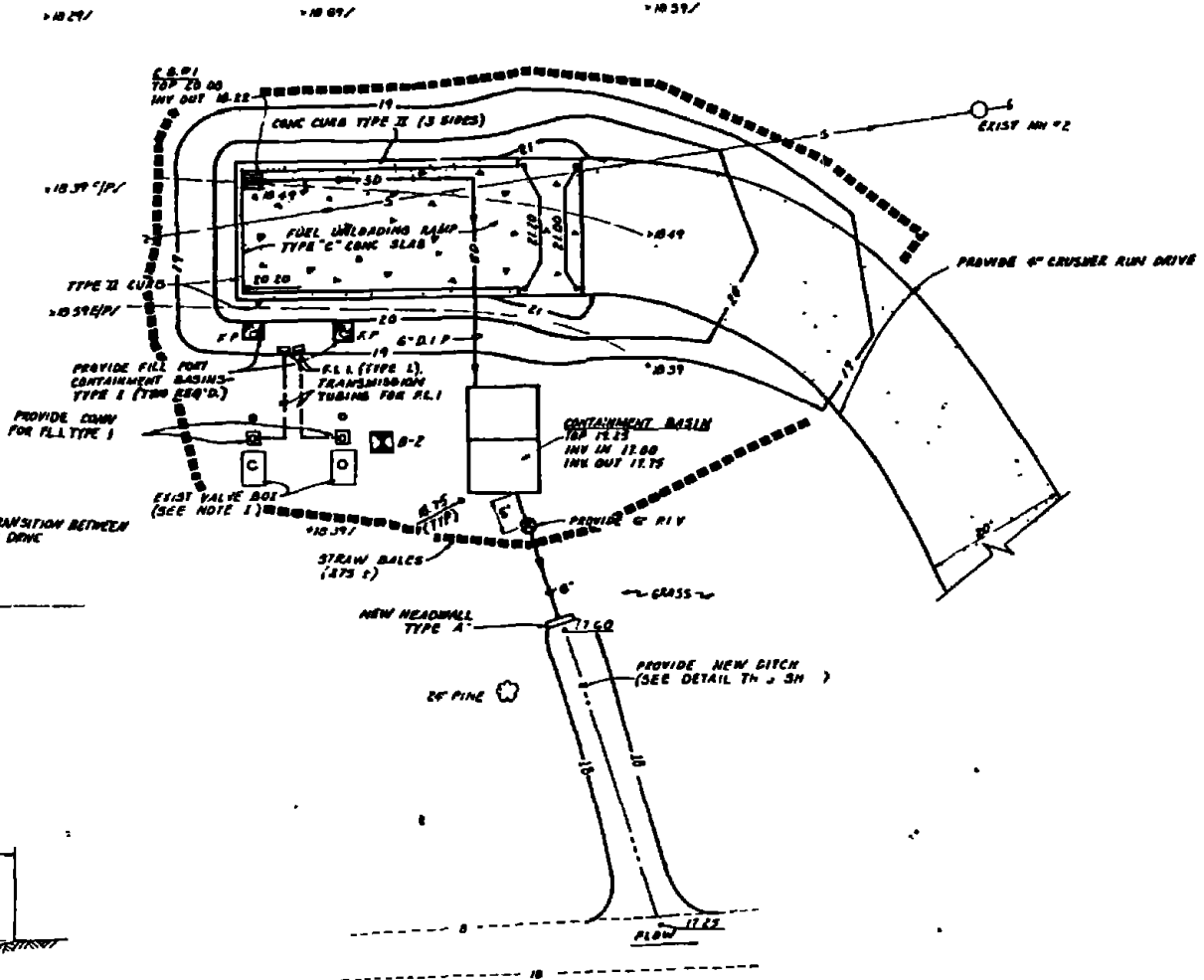


RECORD OF DATE FEB 1983	C-20
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineers 1215 W. 11th St. Austin, Texas 78702	ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA
DESIGNED BY NAME C.H. JES CHECKED BY C.H. JES DATE 12/11/77	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN B PROFILE - SITE I - A
PROJECT NO. 4052429	CITY
DATE	DATE
SCALE	SCALE
BY	BY
APP'D BY	APP'D BY
DATE	DATE
DATE	DATE

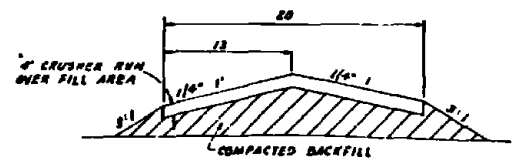
NO.	DESCRIPTION	DATE	APPROVED
1	REVISED AS BUILT	6/1/82	



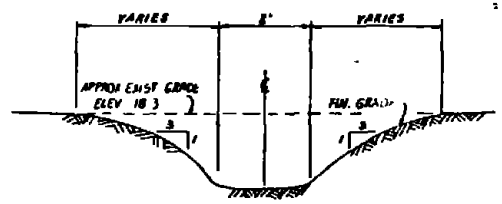
SITE I-B LAYOUT PLAN
SCALE 1"=20'



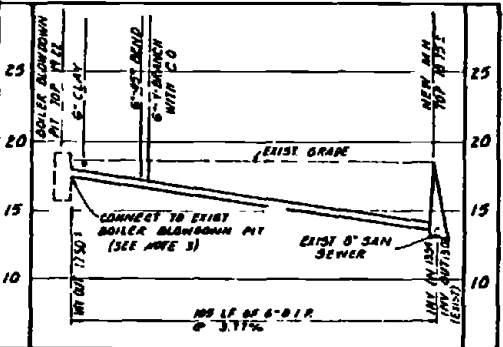
SITE I-B GRADING PLAN
SCALE 1"=10'



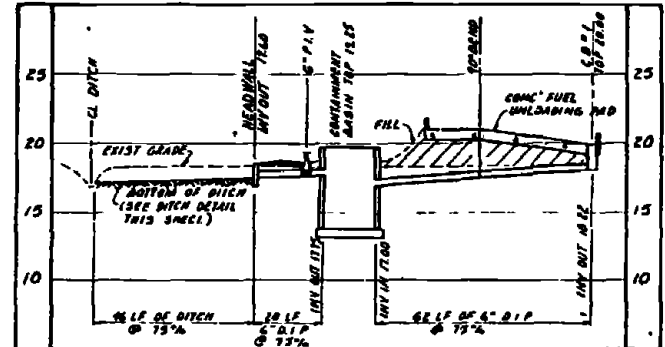
DRIVEWAY SECTION-FILL AREA
NO SCALE



DITCH DETAIL
NO SCALE



PROFILE-ROILER BLOWDOWN PIT DISCHARGE
SITE I-B
SCALE VERTICAL 1"=5' HORIZONTAL 1"=20'

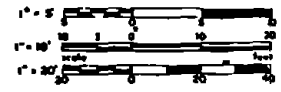


PROFILE-FUEL UNLOADING PAD DISCHARGE
SCALE VERTICAL 1"=5' HORIZONTAL 1"=20'

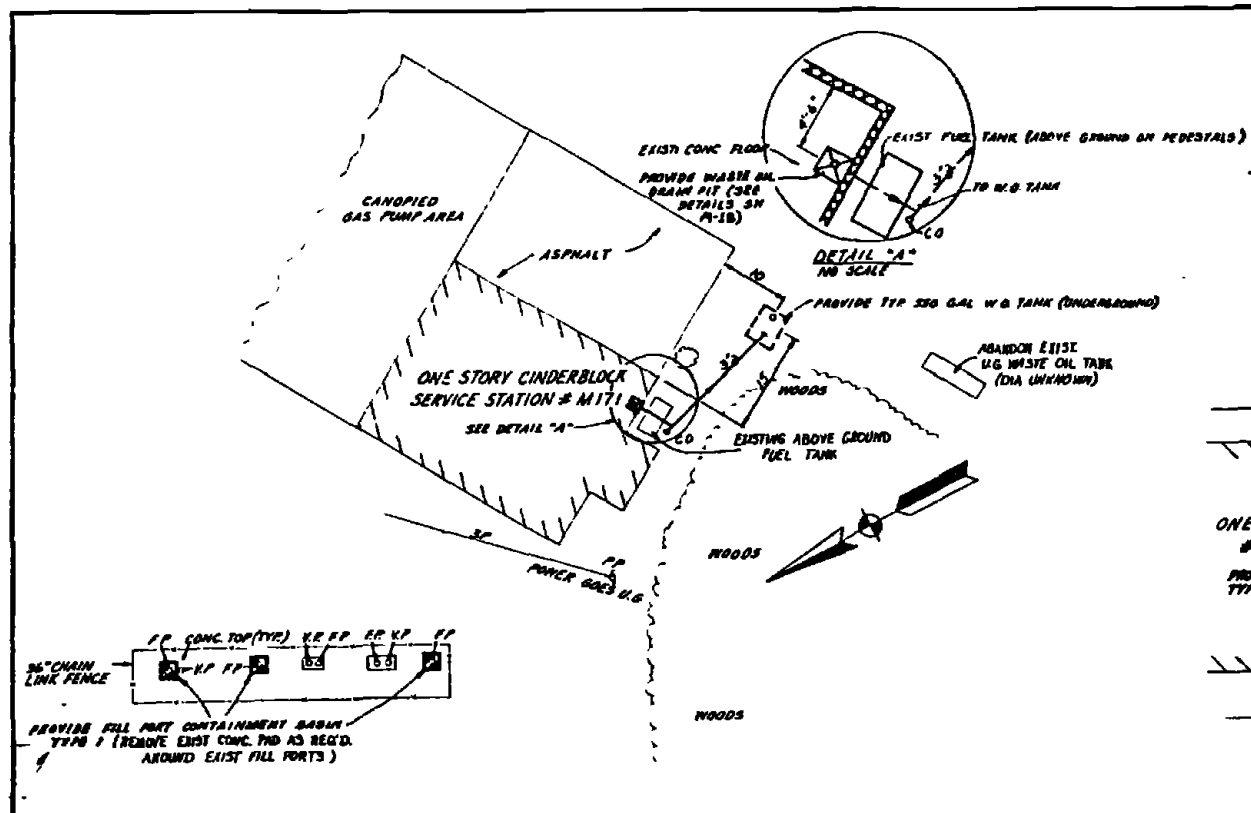
- NOTES**
1. PROVIDE FUEL LEVEL INDICATOR (F.L.I.) TYPE I FOR EACH UNDERGROUND STORAGE TANK LOCATE INDICATOR ADJACENT TO FILL PORTS AS SHOWN FOR DETAILS OF F.L.I. SEE SHEET M-12.
 2. CONTRACTOR SHALL CONNECT EXIST 3" CONDENSATE LINE FROM BLDG M-230 TO EXIST BOILER BLOWDOWN PIT CONNECT TO PIT A MINIMUM OF 2" ABOVE WATER SURFACE REMOTE REMAINING 3" PIPE TO DITCH.
 3. CONNECT NEW 6" BLOWDOWN LINE WHERE INDICATED IN BOILER BLOWDOWN PIT NEW INVERT OUT ELEVATION SHALL BE AT EXIST WATER SURFACE ELEVATION PLUS AND ABANDON EXIST BLOWDOWN DRAIN LINE FROM PIT.
 4. SEE EROSION CONTROL NOTE #10 FOR JUTE MESH INSTALLATION LOCATION (SHEET C-132).



FEB 1982 C-21	
AUSTIN BRIDGEMAN AND ASSOCIATES ENGINEERS 1115 W. 10th St. WASHINGTON, D.C. 20004	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA
PROJECT NO. 4052450 DRAWING NO. 11/14/79 SHEET NO. 1 OF 1	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & PROFILES - SITE I-B CIVIL
F 80091	4052450
SCALE AS NOTED SPEC. 05-16 02-68	SHEET 21 OF 1-1

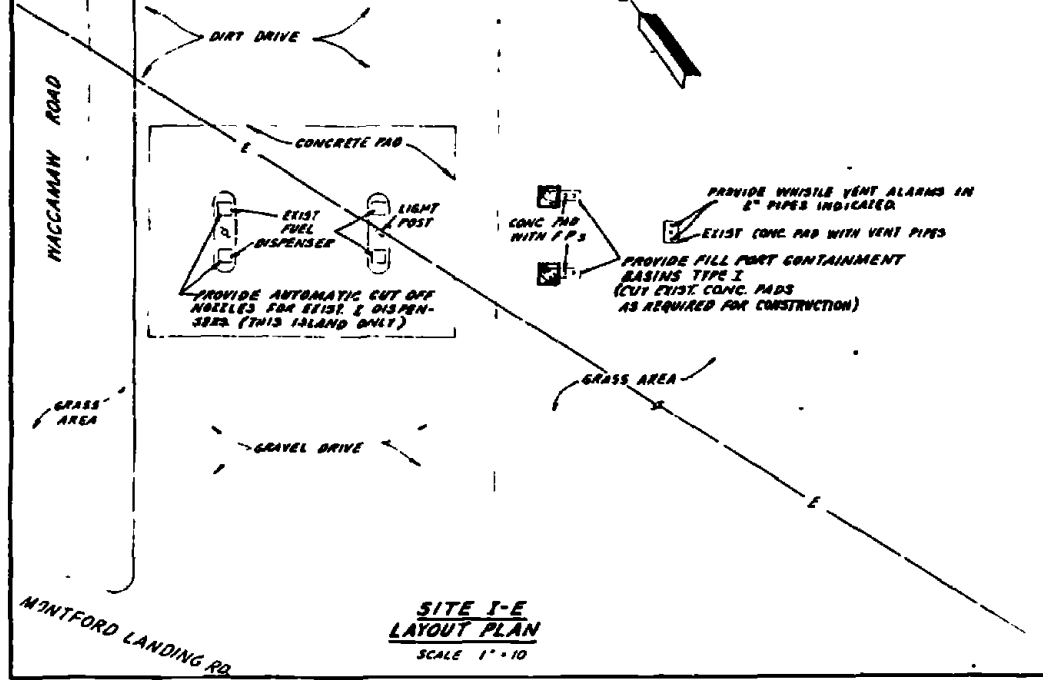


REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

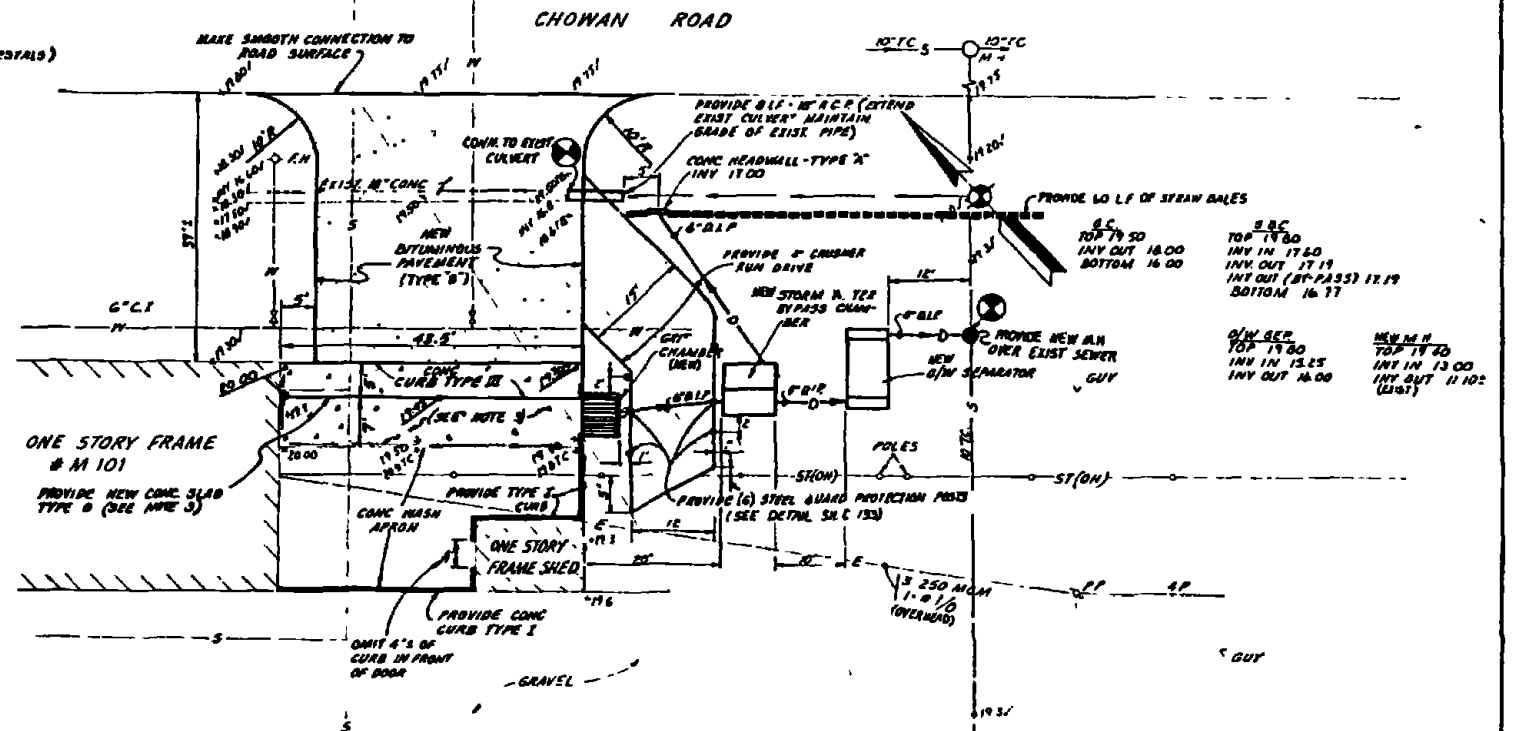


SITE I-C LAYOUT PLAN
SCALE 1"=10'

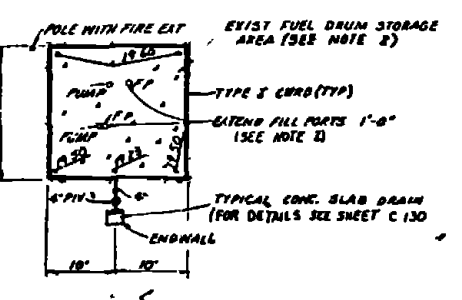
NOTE PROVIDE 3 WHISTLE VENT ALARMS IN EXIST TENT PIPES SHOWN ABOVE TENT PIPES ARE 6" DIA.



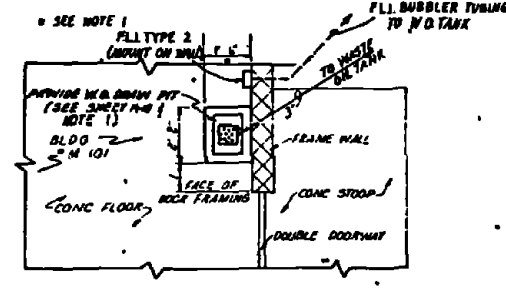
SITE I-E LAYOUT PLAN
SCALE 1"=10'



SITE I-D LAYOUT AND GRADING PLAN
SCALE 1"=10'

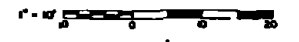


- NOTES**
- 1 DIMENSION FOR W/O DRAIN PIT VARIES FROM TYPICAL DETAIL DUE TO BUILDING USE REQUIREMENTS CONTRACTOR SHALL MODIFY DRAIN PIT ACCORDINGLY
 - 2 CONTRACTOR SHALL PROVIDE NEW CONC SLAB TYPE "B" FOR EXIST FUEL DRUM STORAGE AREA INSIDE EXIST FENCE EXTEND EXIST FENCE PORTS 1'-0" (SEE NOTE 1)
 - 3 CONTRACTOR SHALL PROVIDE A NEW CONC SLAB EXTENSION FROM NEW TYPE III CURB TO EXIST CONC WASH APRON ADJACENT TO BLDG-M101 MAKE SMOOTH CONNECTION TO EXIST SLAB



DETAIL "B" AND SCALE

RECORD DRAWING D-18-104	C-22
AUSTIN BROCKENBROUGH AND ASSOCIATES Engineers 2121 N. W. 22nd St. Fort Lauderdale, Florida 33309	DEPARTMENT OF THE NAVY MARINE FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VIRGINIA STATION: MARINE CORP BASE CAMP LEJEUNE NORTH CAROLINA
DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 12/15/77	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SI-E PLANS-SITES I-C, I-D & I-E CIVIL
PROJECT NO. 80091 SHEET NO. 22 OF 24	CONTRACT NO. NA6170-78 8-8614 SCALE AS SHOWN 1"=10'-0" & 1"=10'-0" DATE: 12/15/77 BY: [Signature] CHECKED BY: [Signature]



NO.	DESCRIPTION	DATE	APPROVED

GRIT CHAMBER
TOP OF GATE 19.30
INV. OUT 18.00
BOTTOM 16.00

S.B.C.
TOP 19.25
INV. IN 16.00
INV. OUT 16.7 15.50
INV. OUT 16.7 15.50

C.A. (NEW)
TOP 18.30
INV. IN 13.40 (2 PIPES)
INV. OUT 13.25

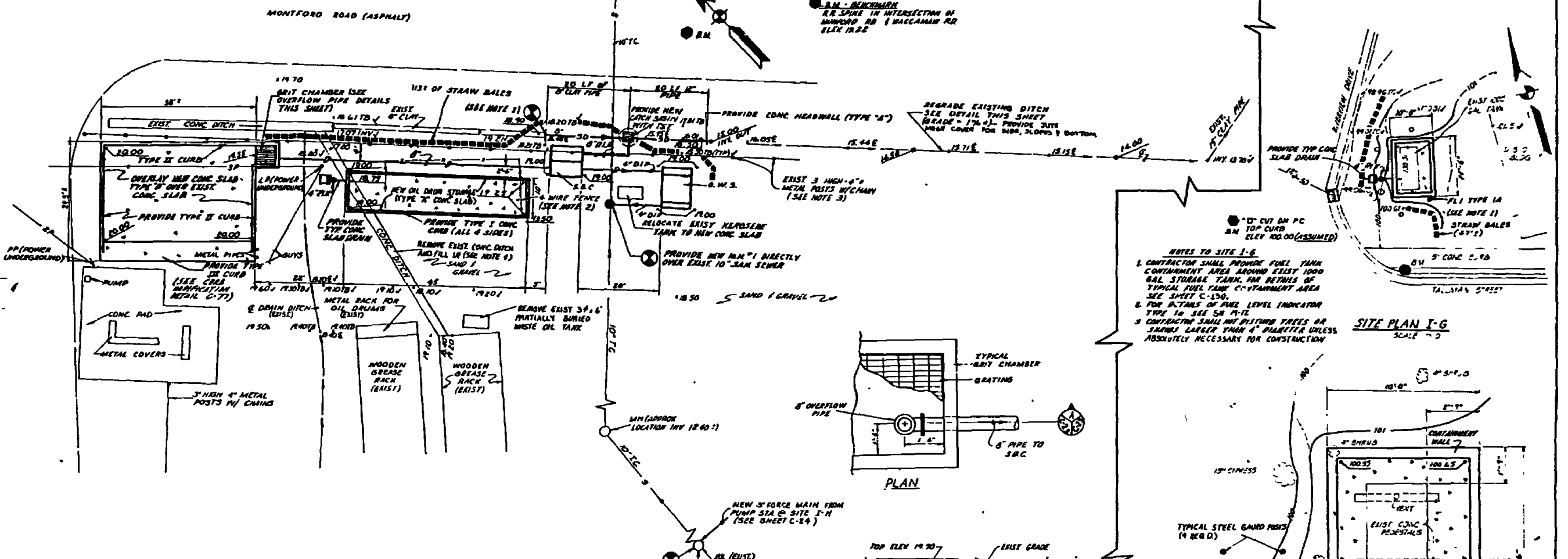
OIL SEPARATOR
TOP 19.30
INV. IN 14.50
INV. OUT 13.17
BOTTOM 12.67

MANHOLE #1
TOP 19.00
INV. IN (10") 12.00
INV. IN (8") 13.30
INV. OUT 12.00

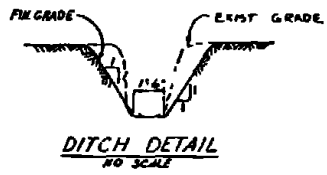
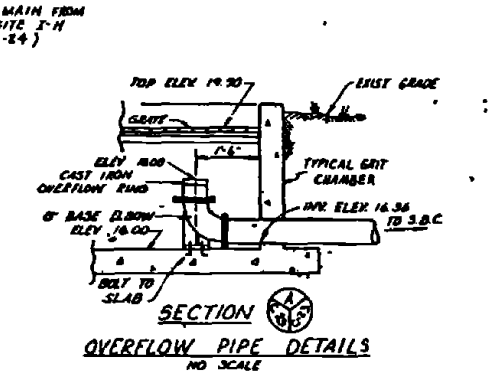
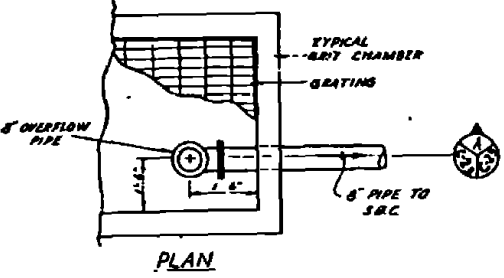
NOTES TO SITE I-F

- CONNECT NEW 8" STORM DRAIN LINE TO EXIST. 8" CLAY LINE AND EXTEND STORM DRAIN AS SHOWN. PROVIDE ADAPTERS AS REQUIRED FOR CONN. TO 8" CLAY LINE.
- REMOVE EXIST. 4" WIRE FENCE USED FOR DEFINING GRIT DRAIN STORAGE AREA. REMOVE EXIST. OIL DRUMS DURING CONSTRUCTION OF NEW CONC. SLAB & REPLACE DRUMS ON NEW SLAB.
- REMOVE EXIST. GROUND FENCE AS REQUIRED FOR CONSTRUCTION OF NEW DRAIN LINE AND STORM-BYPASS CHAMBER. REPLACE FOLLOWING CONSTRUCTION.
- PROVIDE POSITIVE DRAINAGE AROUND & AWAY FROM NEW STRUCTURES TOWARD NEW CATCH BASIN OR OTHER DRAINAGE COURSE.

B.M. - BENCHMARK
R.R. SPIRE IN INTERSECTION OF MONTFORD RD & WACCAMUS RR
ELEV. 18.22



SITE I-F GRADING & LAYOUT PLAN
SCALE: 1" = 10'



- NOTES TO SITE I-G**
- CONTRACTOR SHALL PROVIDE FUEL TANK CONTAINMENT AREA AROUND EXIST. 1000 GAL. STORAGE TANK. FOR DETAILS OF TYPICAL FUEL TANK CONTAINMENT AREA SEE SHEET C-130.
 - FOR DETAILS OF FUEL LEVEL INDICATOR TYPE 10 SEE SHEET C-112.
 - CONTRACTOR SHALL NOT DISTURB TREES OR SHRUBS LARGER THAN 4" DIAMETER UNLESS ABSOLUTELY NECESSARY FOR CONSTRUCTION.

SITE PLAN I-G
SCALE: 1" = 10'

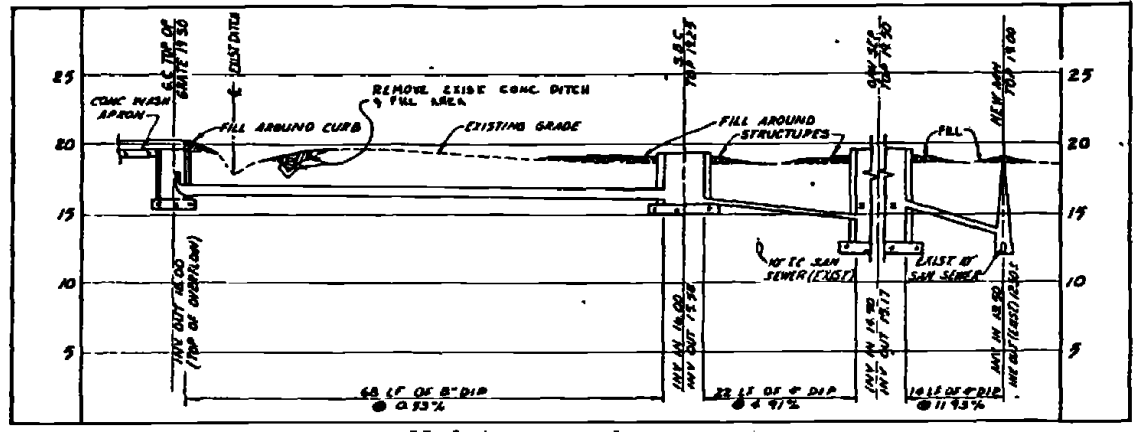
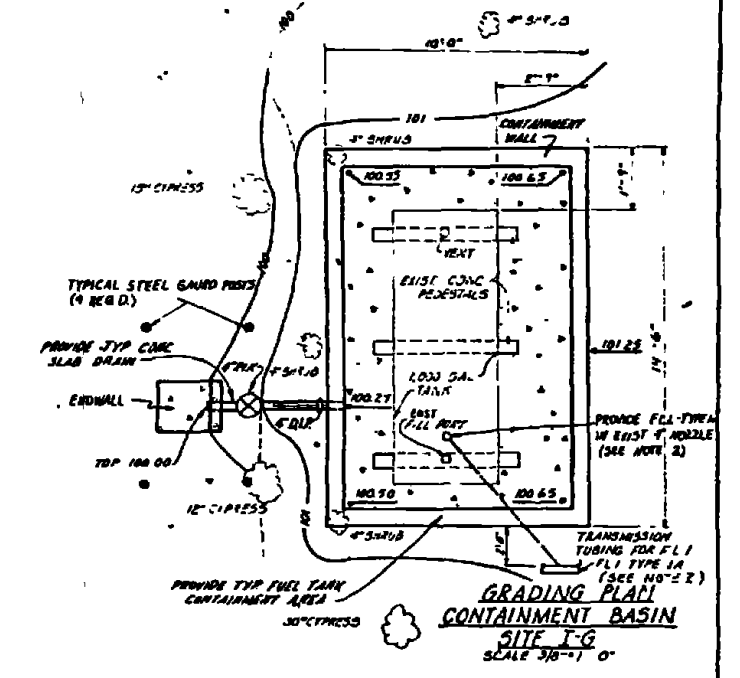
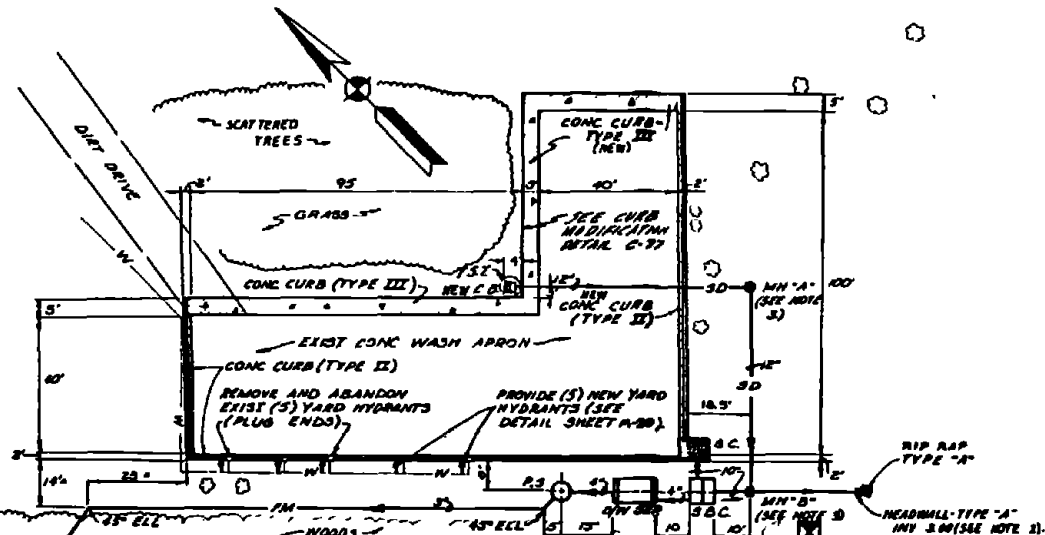


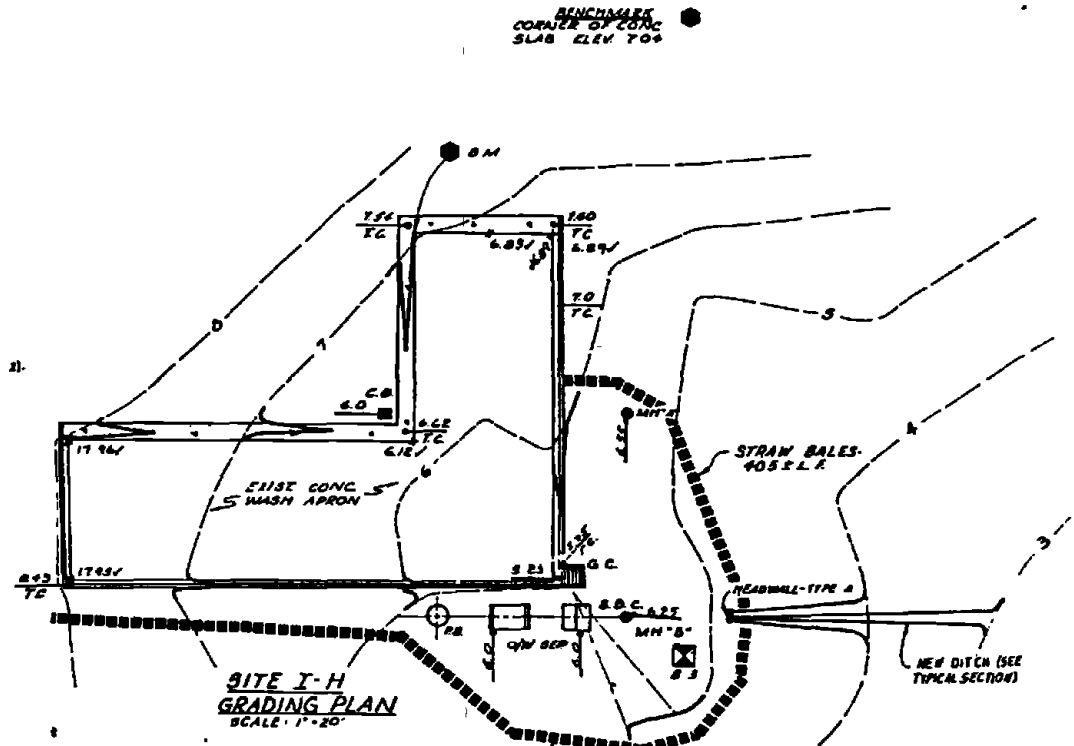
FIGURE C-23 FEB 11 1978		C-23
AUSTIN BROCKENBROUGH AND ASSOCIATES CONSULTING ENGINEERS 200 S. W. 11th St. MIAMI, FLORIDA 33135	DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND 3401 RIFLEMAN BLVD. P.O. BOX 1346 WASHINGTON, D.C. 20340	NAVAL STATION MARINE CORPS BASE CAMP JEUNE, NORTH CAROLINA
PROJECT NO. 4052492 SHEET NO. C-23 DATE: 12/19/77 DRAWN BY: J.E.S. CHECKED BY: J.E.S. APPROVED BY: J.E.S.	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILE-SITES I-F & I-G CIVIL	
F 80091	4052492 CONSTRUCTION NO. NA62470 78 B 816B SHEET 2 OF 11	

REV	DESCRIPTION	DATE	APPROVED

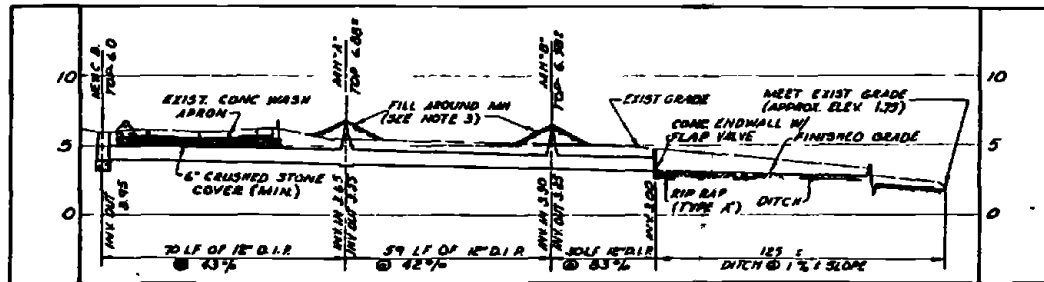


PUMP STATION TOP 4.50' INV IN - 2.75	QTY SEPARATOR TOP 6.40 INV IN - 2.15 INV OUT - 2.90	STORM BYPASS CHANNEL TOP 6.93 INV IN - 4.0 INV OUT (10') 3.38 INV OUT (8') 3.38 BOTTOM - 3.16	GRIT CHAMBER TOP 2.25 (INLET ELEV) INV OUT - 4.25
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**SITE I-H
LAYOUT PLAN**
SCALE 1"=20'

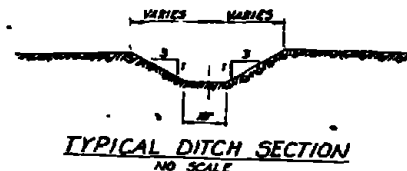


**SITE I-H
GRADING PLAN**
SCALE 1"=20'

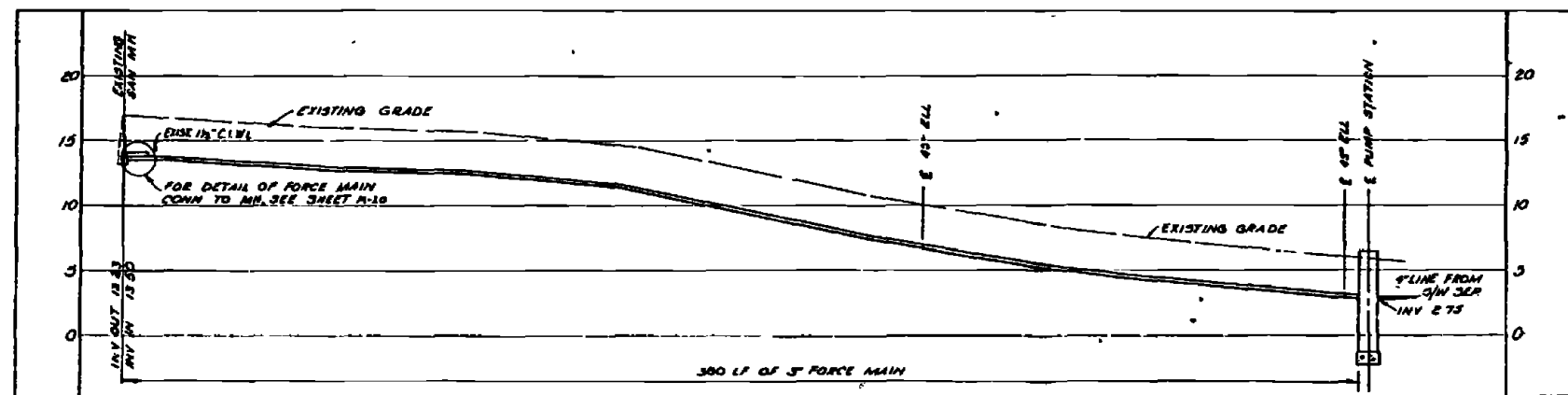
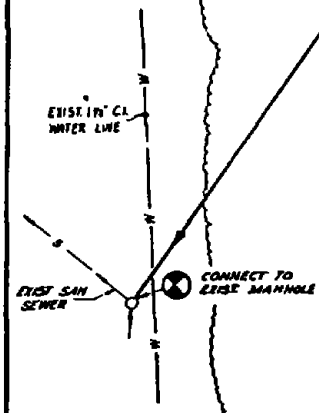


PROFILE - 12" STORM DRAIN
SCALE VERTICAL 1"=5', HORIZONTAL 1"=20'

- NOTES**
- 1 FOR CONC CURB DETAILS AND INSTALLATION OF NEW CONC CURB AT EXIST WASH APRON SEE SHEET C-118
 - 2 PROVIDE FLAP VALVE OVER END OF 12" OUT-FALL STORM DRAIN
 - 3 FILL AROUND MANHOLES TO WITHIN 4" OF TOP OF COVER MAINTAIN MAXIMUM 10% SLOPE AWAY FROM MANHOLE
 - 4 FOR TYPICAL DETAIL OF PUMP STATION SEE SHEET M-11.

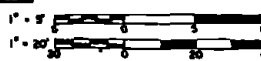


TYPICAL DITCH SECTION
NO SCALE

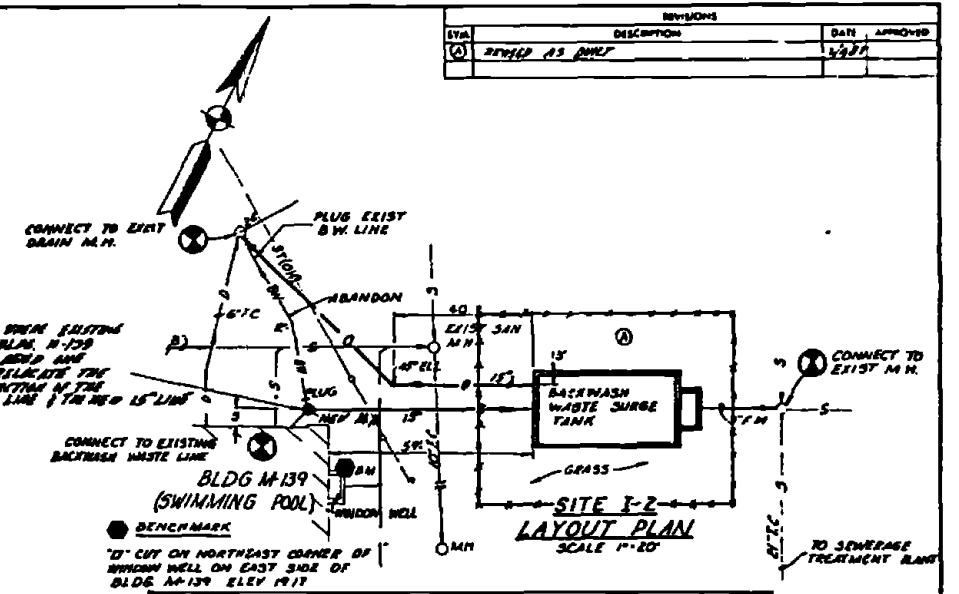
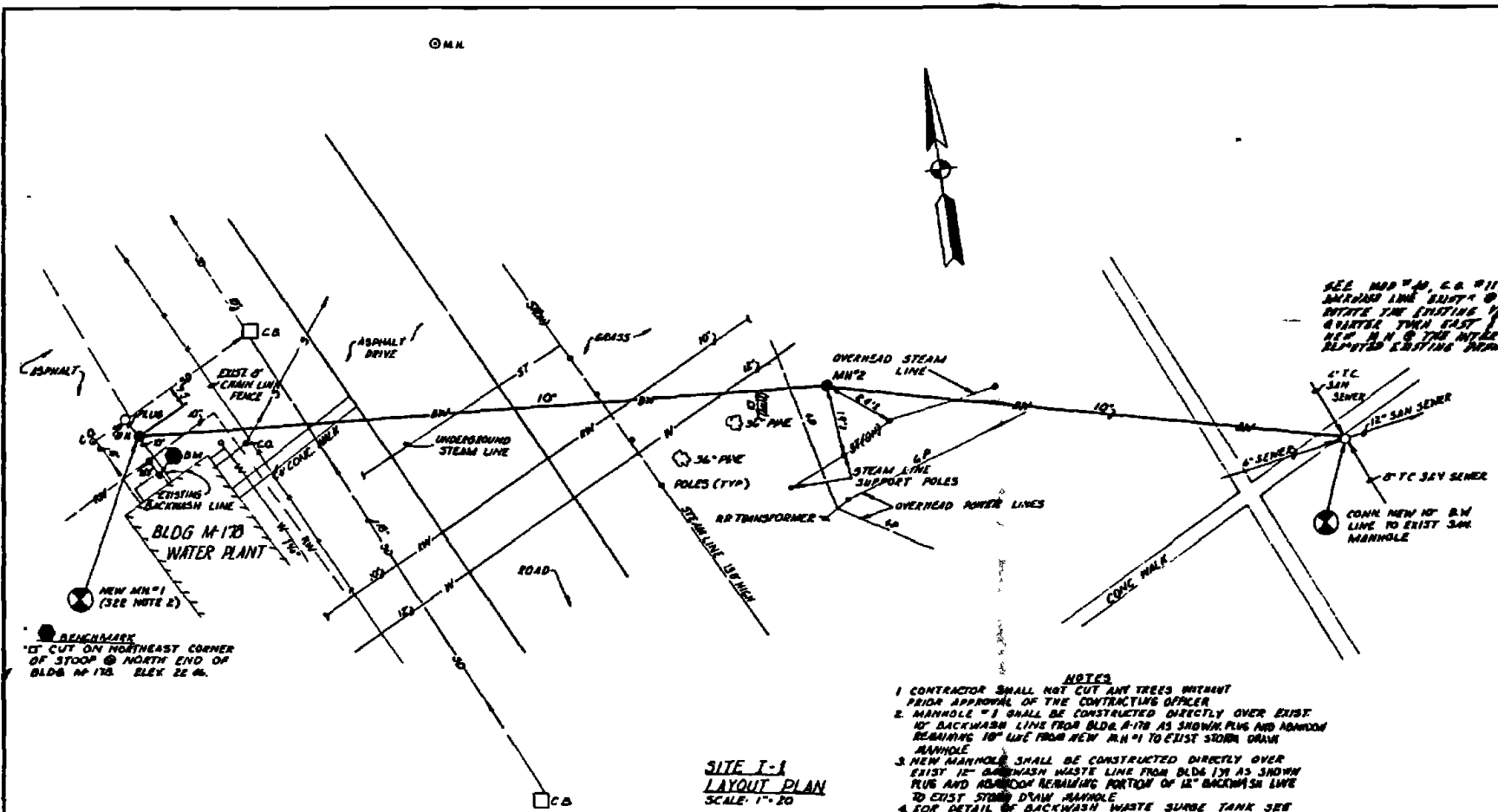


PROFILE - 3" FORCE MAIN
SCALE VERTICAL 1"=3', HORIZONTAL 1"=20'

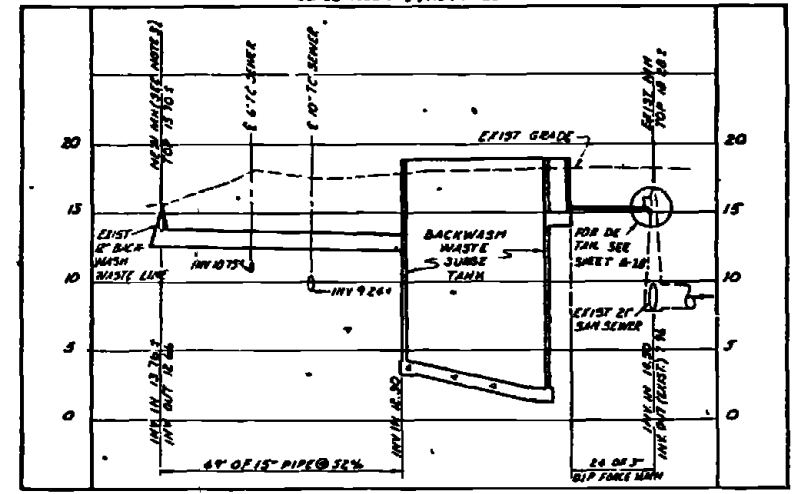
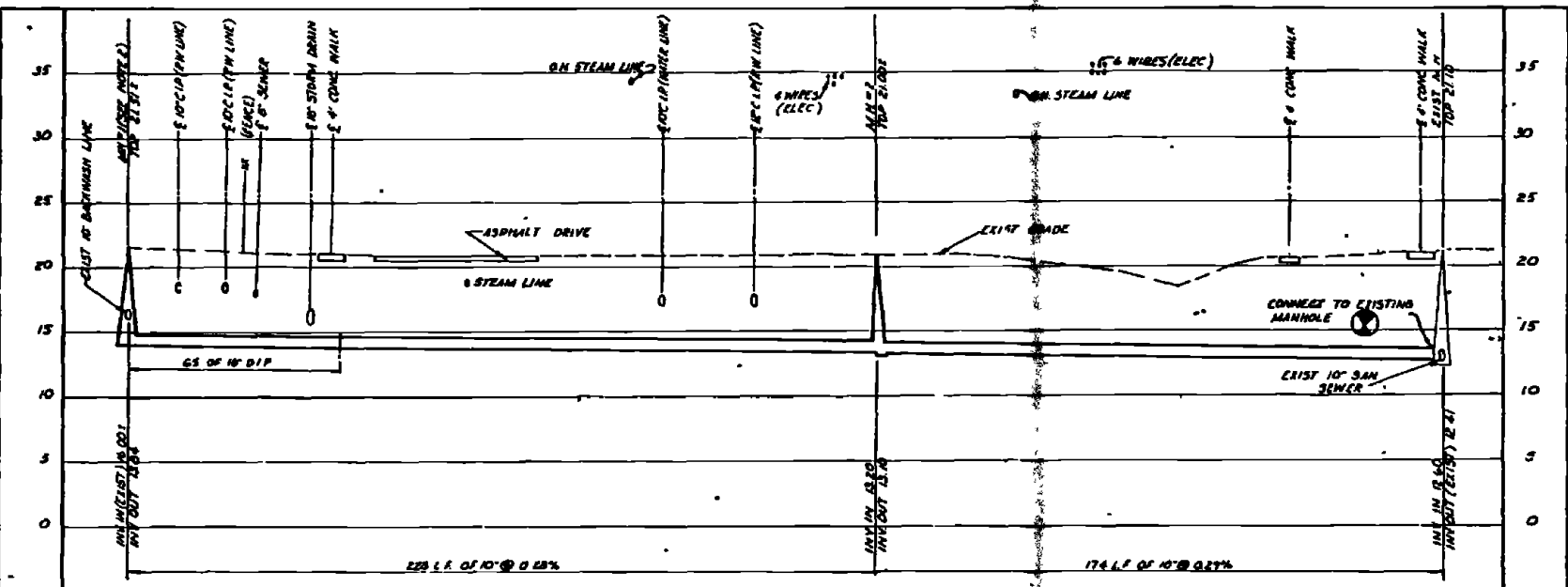
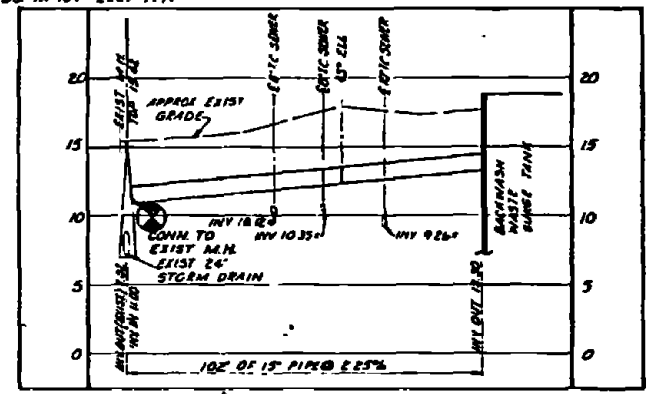
RECORD COPY FEB 11 2011	C-24
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 176 SOUTH MAIN STREET RICHMOND, VA 23261 TEL: 804-343-1111 FAX: 804-343-1112	DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE - CAMP LEJEUNE, NORTH CAROLINA MOBILE, VIRGINIA
PROJECT NO. 176-000 DATE 11/10/10 DRAWN BY [Signature] CHECKED BY [Signature]	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES-SITE I-H CIVIL
SCALE AS NOTED	CONTRACT NO. N6670 18-0-0260 SHEET 24 OF 24



NO.	DESCRIPTION	DATE	APPROVED
1	REVISED AS SHOWN	1/2/77	



- NOTES**
- CONTRACTOR SHALL NOT CUT ANY TREES WITHOUT PRIOR APPROVAL OF THE CONTRACTING OFFICER.
 - MANHOLE #1 SHALL BE CONSTRUCTED DIRECTLY OVER EXIST 12" BACKWASH WASTE LINE FROM BLDG #170 AS SHOWN. PLUS AND ABANDON REMAINING 10" LINE FROM NEW M.H.#1 TO EXIST STORM DRAIN MANHOLE.
 - NEW MANHOLE SHALL BE CONSTRUCTED DIRECTLY OVER EXIST 12" BACKWASH WASTE LINE FROM BLDG #139 AS SHOWN. PLUS AND ABANDON REMAINING PORTION OF 12" BACKWASH WASTE TO EXIST STORM DRAIN MANHOLE.
 - FOR DETAIL OF BACKWASH WASTE SURGE TANK SEE SHEETS I-2 & I-3.



RECORD OF WORK
DATE: FEB 11 1983

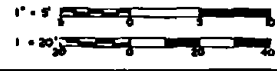
C-25

AUSTIN BROOKSBROUGH AND ASSOCIATES
1205 W. 10th St., Suite 100, Austin, TX 78701
PHONE: 512/476-1111

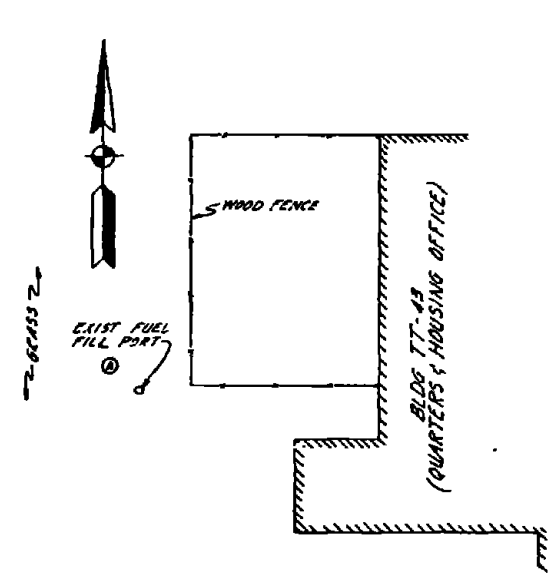
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
SITE PLANS & PROFILES - SITES I-1 & I-2
CIVIL

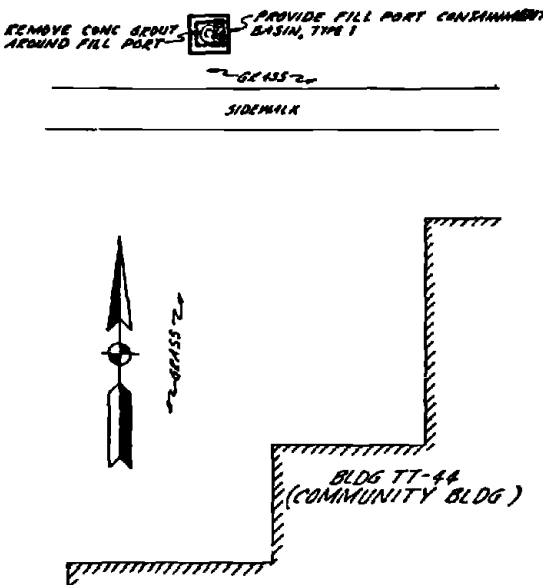
PROJECT NO. 4057493
SHEET NO. F 80091
CONTRACT NO. N00019-78-9-8168
SCALE AS NOTED UNLESS OTHERWISE NOTED



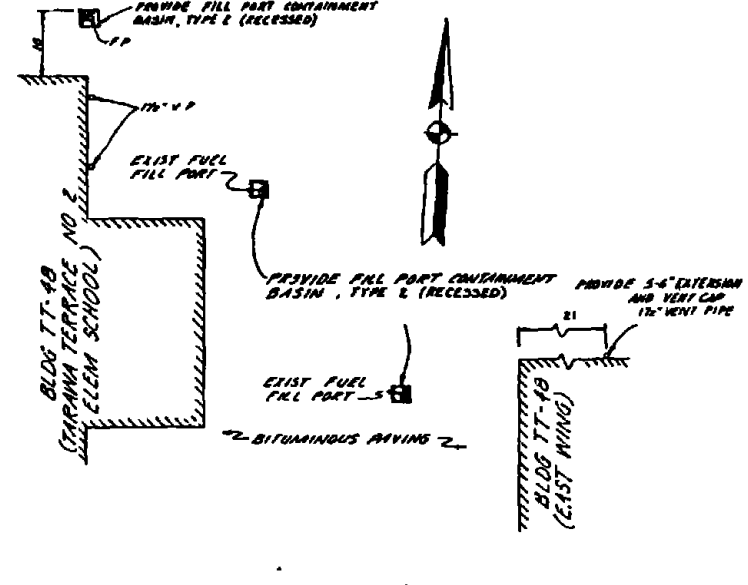
REV	DESCRIPTION	DATE	APPROVED
01	DESIGNED AS BUILT	4/1/82	



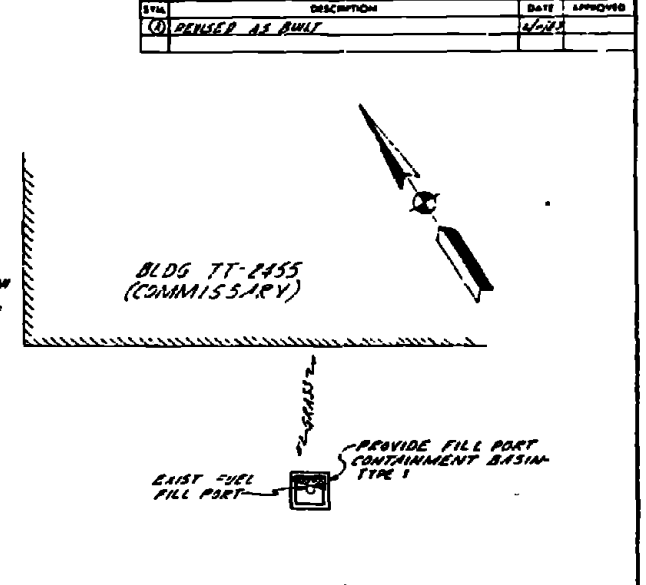
SITE-II-A(1) LAYOUT PLAN
SCALE 1"=24'



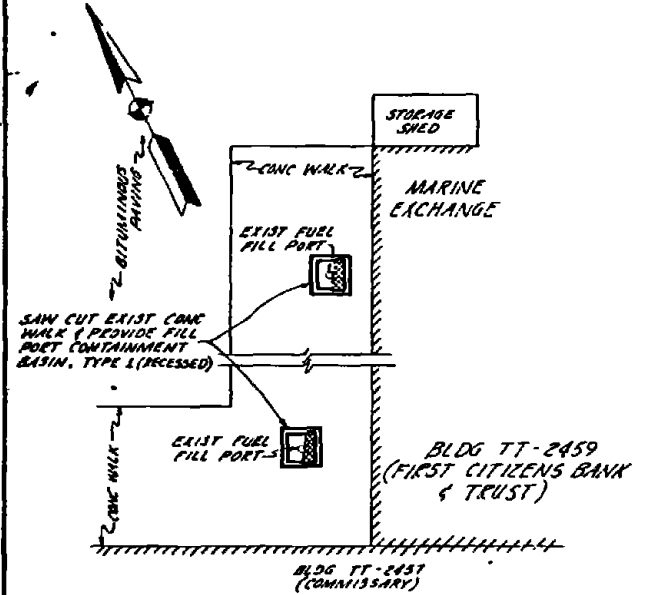
SITE-II-A(2) LAYOUT PLAN
SCALE 1"=5'



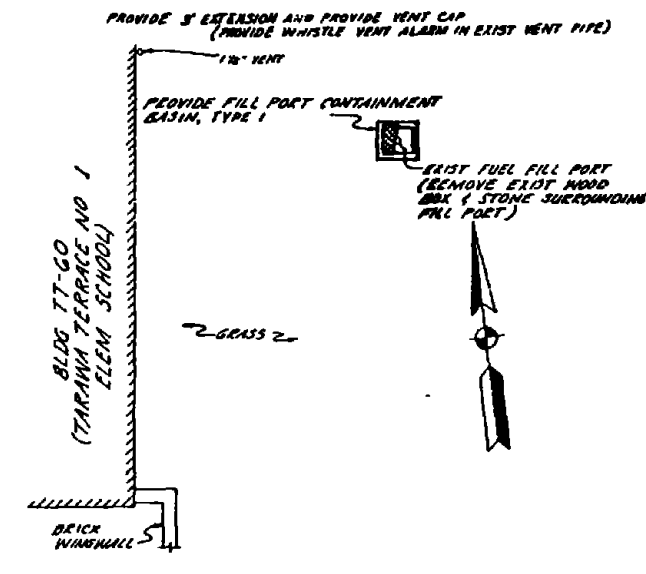
SITE-II-A(3) & II-A(4) LAYOUT PLAN
SCALE 1"=10'



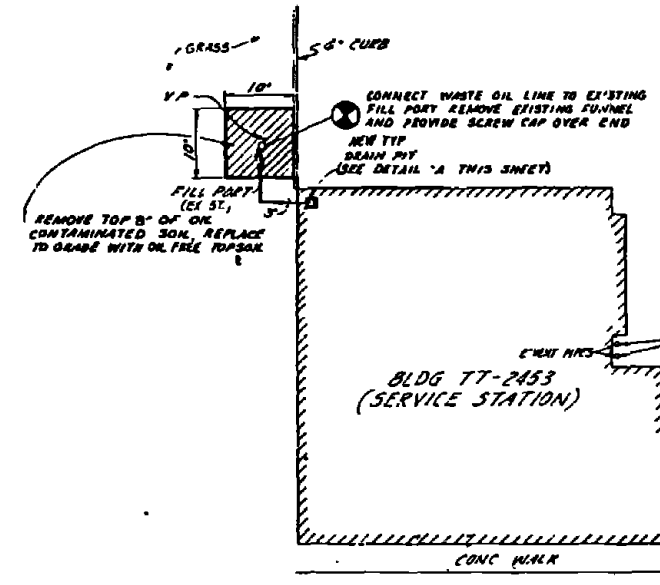
SITE-II-A(5) LAYOUT PLAN
SCALE 1"=5'



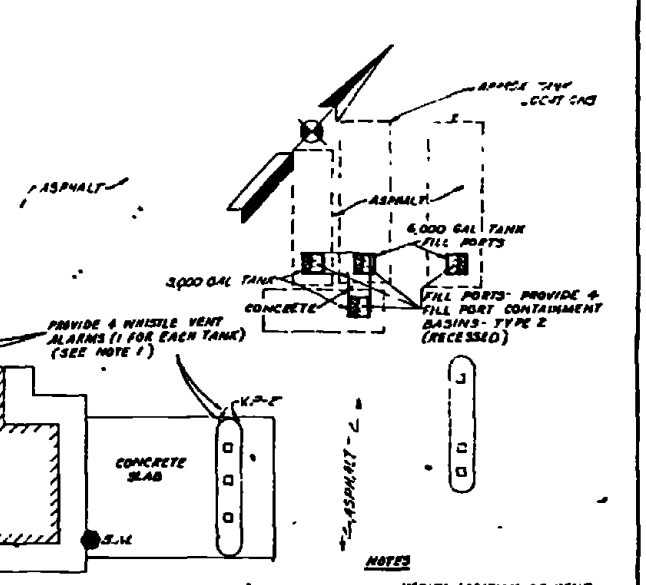
SITE-II-A(6) & II-A(7) LAYOUT PLAN
SCALE 1"=5'



SITE-II-A(8) LAYOUT PLAN
SCALE 1"=5'



SITE-II-B LAYOUT PLAN
SCALE 1"=10'

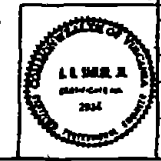


NOTES

VERIFY LOCATION OF VENT PIPES (WHERE THEY ENTER UNDERGROUND STORAGE TANKS) PRIOR TO CONSTRUCTION FOR PROPER INSTALLATION OF WHISTLE VENT ALARMS

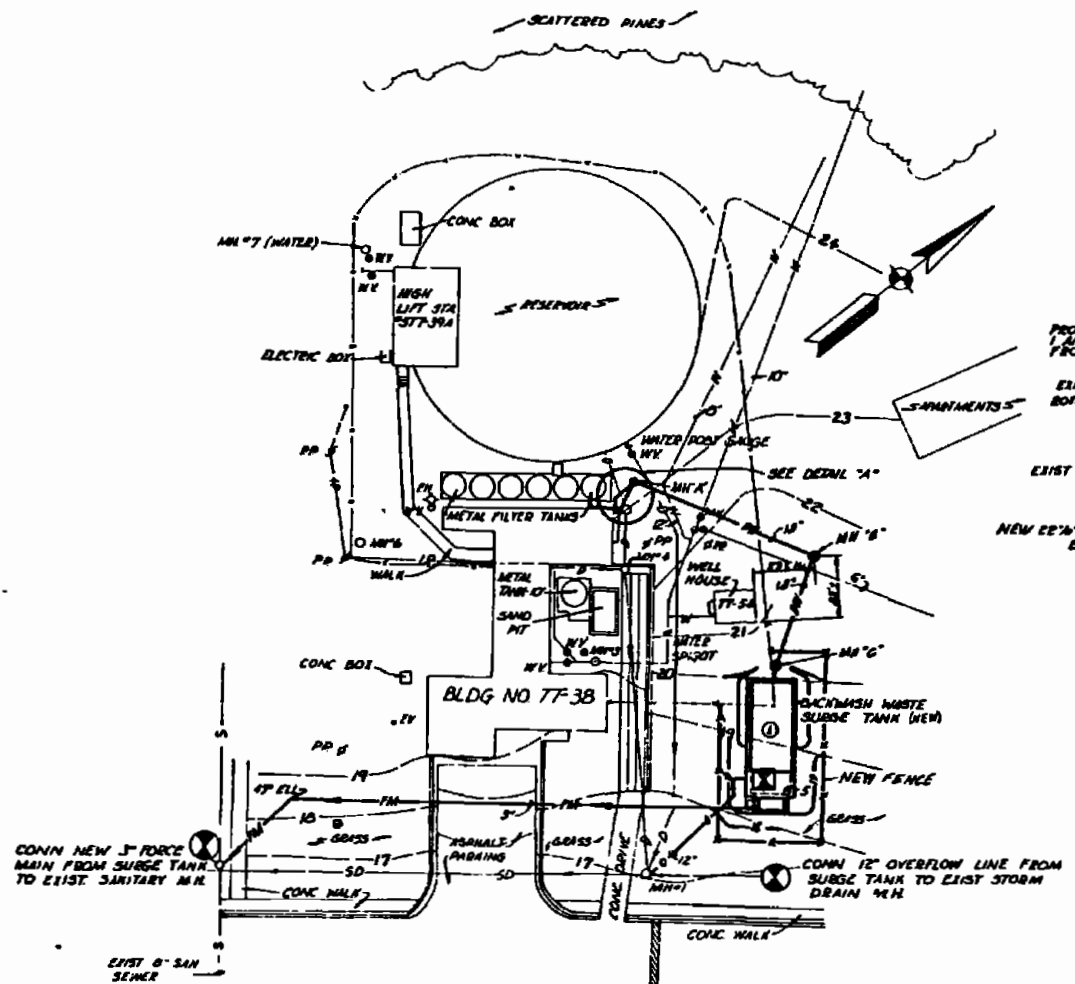
B.M. "C" CUT ON TOP OF DOOR STUOP, FRONT OF BUILDING TT-2453 ELEV. 23.70

- NOTES
- FOR TYPICAL DETAIL OF FILL PORT CONTAINMENT BASIN SEE SHEET C-120
 - FOR TYPICAL DETAIL OF WHISTLE VENT ALARMS SEE SHEET A-17

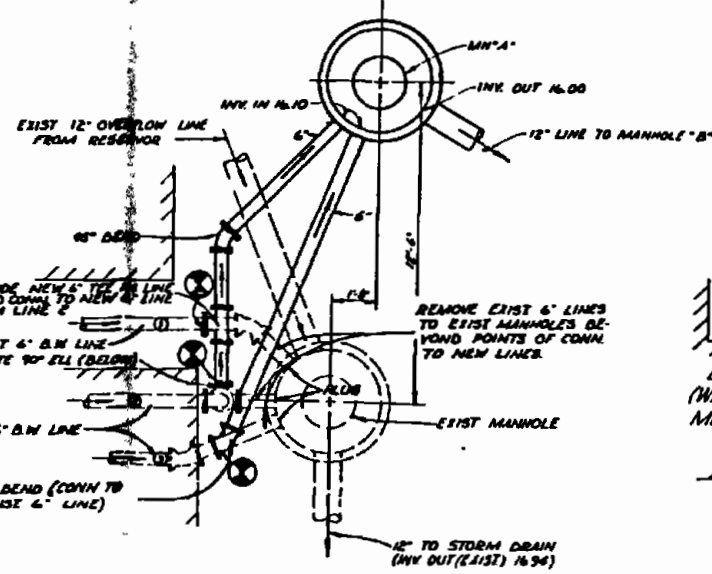


DATE FEB 11 1982		C-26	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS ARCHITECTS 1000 W. 10th St. Wilmington, N.C. 28403		NAVY FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL WAREHOUSE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO. 175 6028 DATE 01/14/79 PROJECT INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES		NAVAL DRAWING NO. 4052495	
DRAWN BY A.L. SHER JR.		SCALE AS NOTED (SEE SHEET C-120)	
CHECKED BY A.L. SHER JR.		DRAWING NO. 152495	

SYMBOL	DESCRIPTION	DATE	APPROVED
(1)	REVISION AS SHOWN	2/10/63	

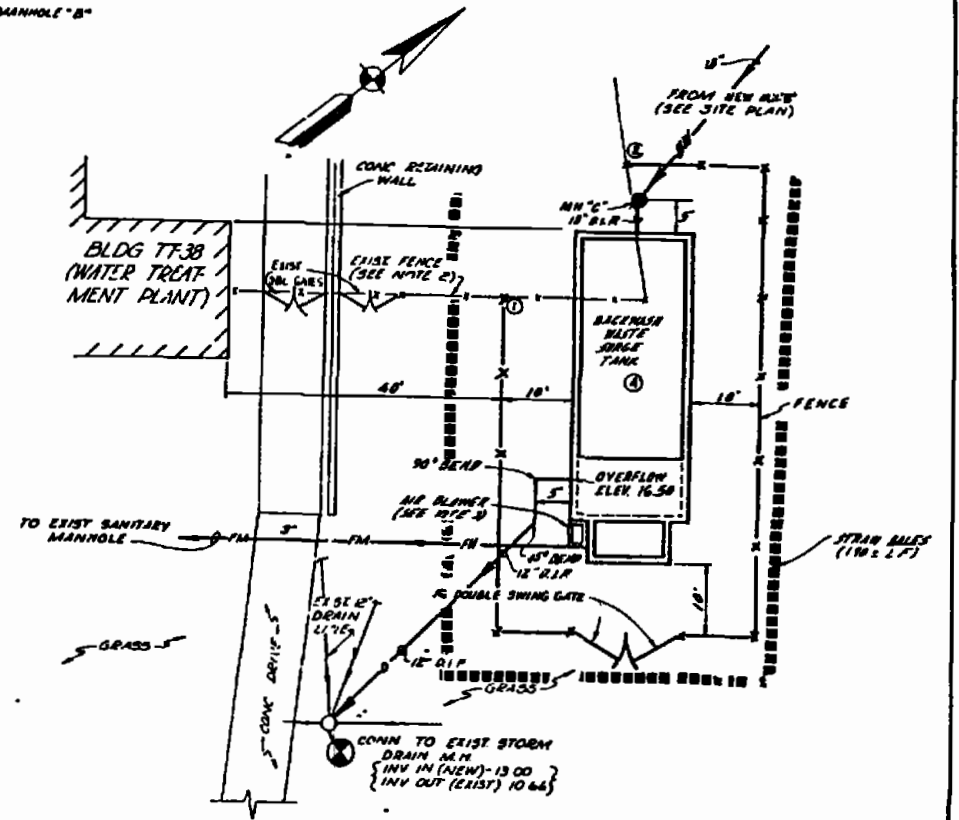


**SITE II-1
SITE PLAN
SCALE 1" = 25'**

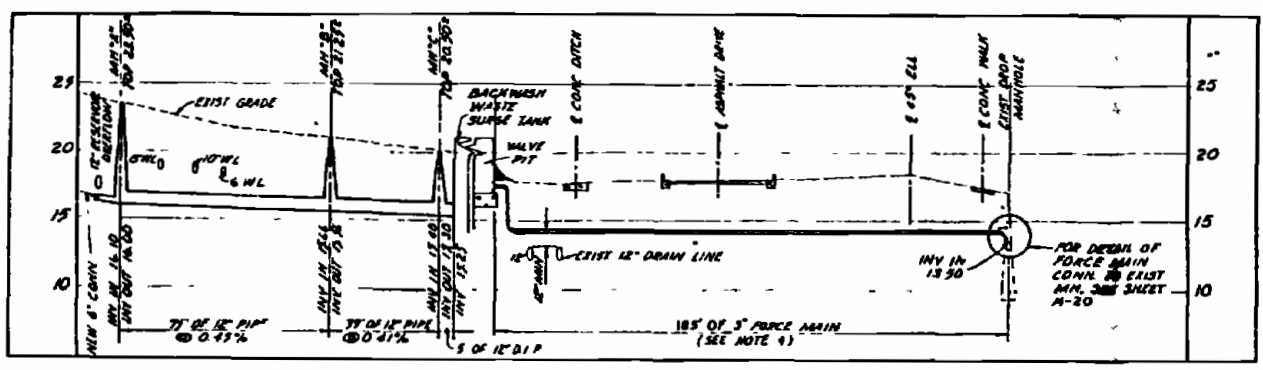


**DETAIL "A"
SCALE 3/8" = 1'-0"**

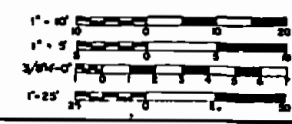
- NOTES**
- FOR DETAILS OF BACKWASH WASTE SURGE TANK SEE SHEETS M-12 & 5-1.
 - CONSTRUCT NEW FENCE TO EXIST FENCE AT PTS 1 AND 2 SHOWN IN LAYOUT PLAN AT RIGHT. REMOVE EXIST PORTION OF FENCE BETWEEN PTS 1 AND 2.
 - PIE BLOWER SHALL BE PROVIDED WHERE SHOWN AND PLACED ON CONC. SLAB FOR DETAILS OF BLOWER AND SLAB SEE SHEET M-12.
 - ALL PIPING AT SITE II-1 SHALL BE DUCTILE IRON PIPE (D.I.P.)



**SITE II-1
LAYOUT PLAN
SCALE 1" = 10'**

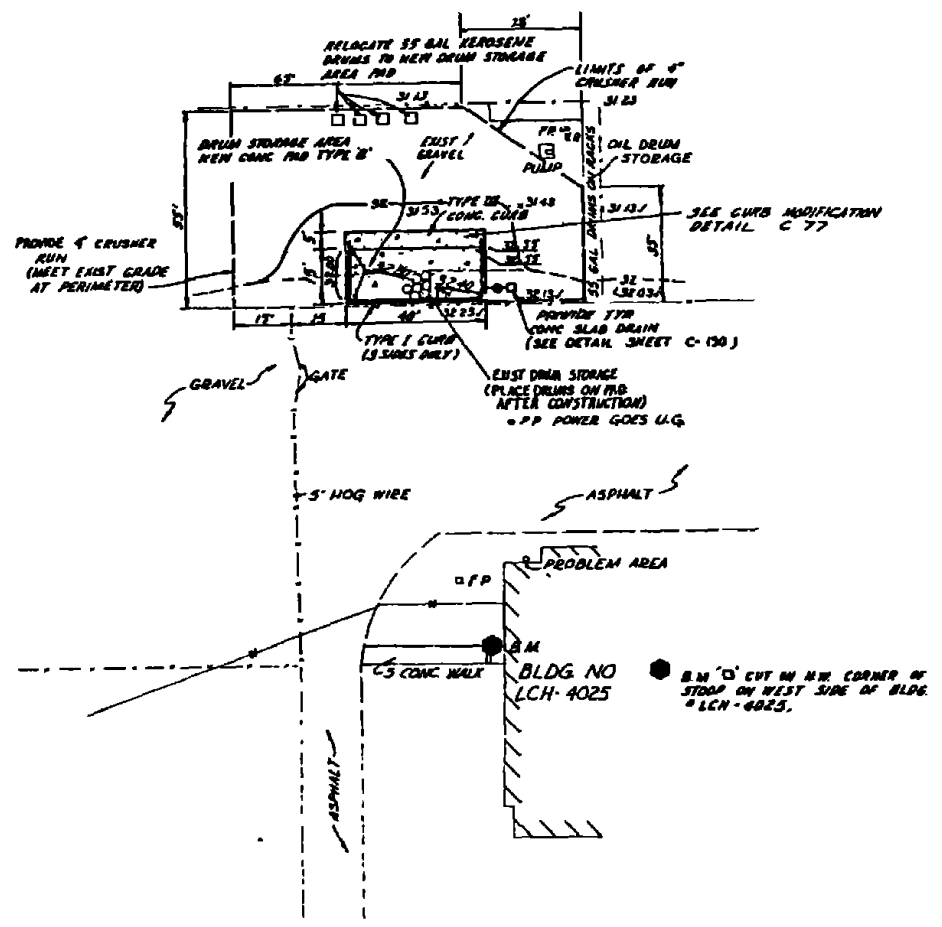


**SITE II-1
PROFILE - FORCE MAIN AND BACKWASH LINE
SCALE VERTICAL 1" = 5', HORIZONTAL 1" = 25'**

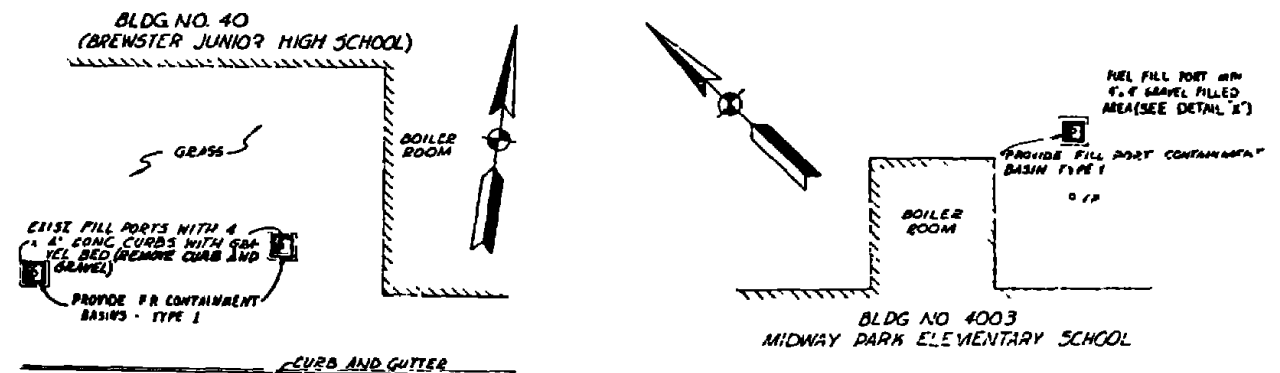


203 J. L. KING FEB 11 1963		C-27	
AUSTIN BROCKSBROUGH AND ASSOCIATES Civil Engineers		DIVISION OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION	
DESIGNED BY: J.L.K. ON: 1/25/63 PROJECT NO.: 4052496 DRAWING NO.: 14/117		MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILE - SITE II-1		CIVIL	
F 80091		4052496	
SCALE AS NOTED UNLESS OTHERWISE SHOWN		SHEET 2 / 10	

REV	DESCRIPTION	DATE	APPROVED

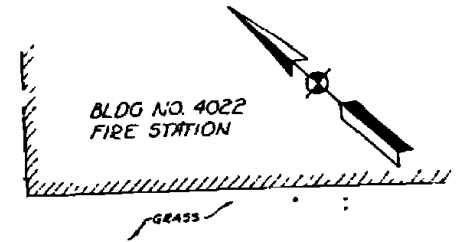
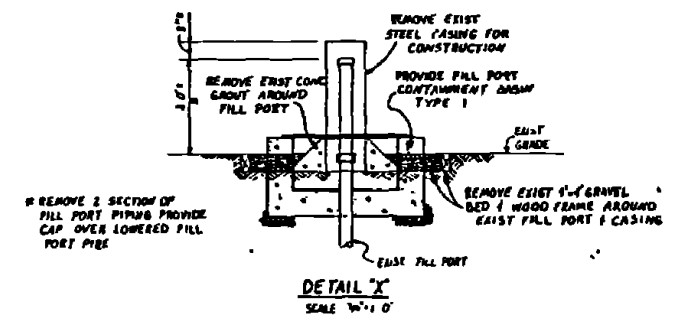


**SITE III-A
LAYOUT PLAN
SCALE 1"=20'**

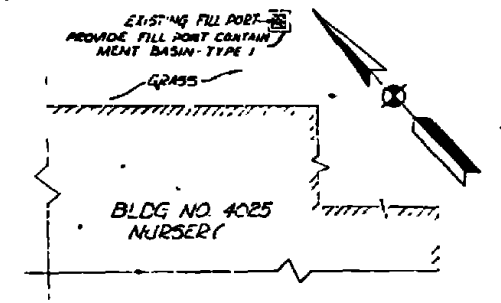


**SITE III-D(2)
LAYOUT PLAN
SCALE 1"=20'**

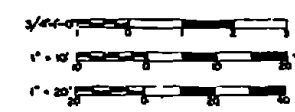
**SITE III-D(1)
LAYOUT PLAN
SCALE 1"=20'**



**SITE III-D(3)
LAYOUT PLAN
SCALE 1"=20'**



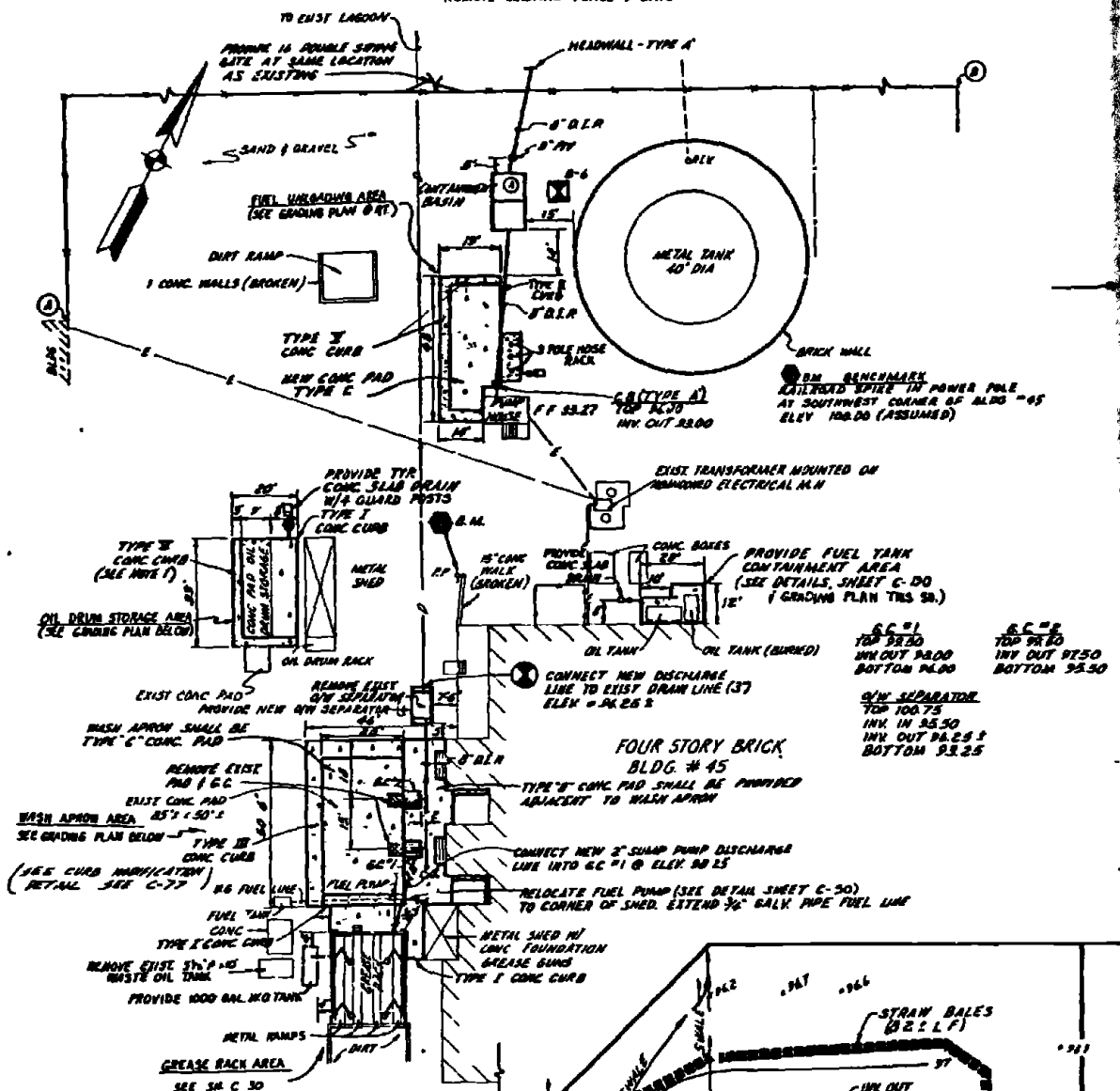
**SITE III-D(4)
LAYOUT PLAN
SCALE 1"=20'**



FEB 11		C-28	
AUSTIN BROCKENBROUGH AND ASSOCIATES CORPORATION 1111 W. BROAD ST. RICHMOND, VIRGINIA 23220		DEPARTMENT OF THE NAVY MARINE FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE STATION CAMP LEJEUNE, NORTH CAROLINA	
DESIGNED BY: DEB CHECKED BY: GWA DATE: 12/14/79		MARINE CORPS BASE INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS - SITES III-A & III-D(1) THRU III-D(14) CIVIL	
DRAWN BY: GWA DATE: 12/14/79		DRAWING NO. 4052997	
APPROVED BY: L.L. SHUBERT DATE: 1/11/80		CODE BOOK NO. F 80091	
SCALE AS NOTED		CONTRACT NO. N62410-78-D-8168	
SHEET 2 OF 11		DD FORM 152 J 77	

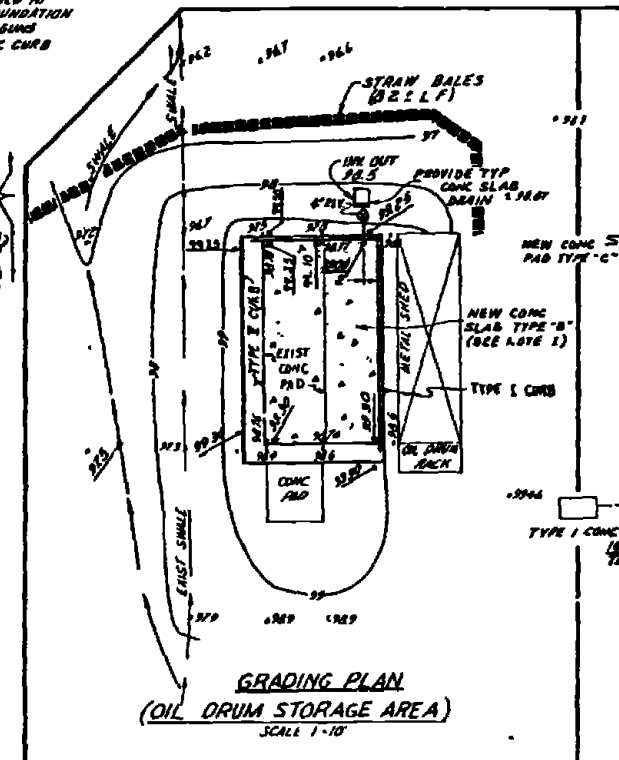
SYMBOL	DESCRIPTION	DATE	APPROVED
(A)	REVISED AS SHOWN	9-2-77	

NOTE: REPLACE EXISTING DOWN WIRE FENCE FROM POINTS 1 TO 2 WITH NEW CHAIN LINK FENCE LENGTH = 310 FT. MAKE CONNECTIONS TO EXISTING FENCING REMOVE EXISTING FENCE & GATE

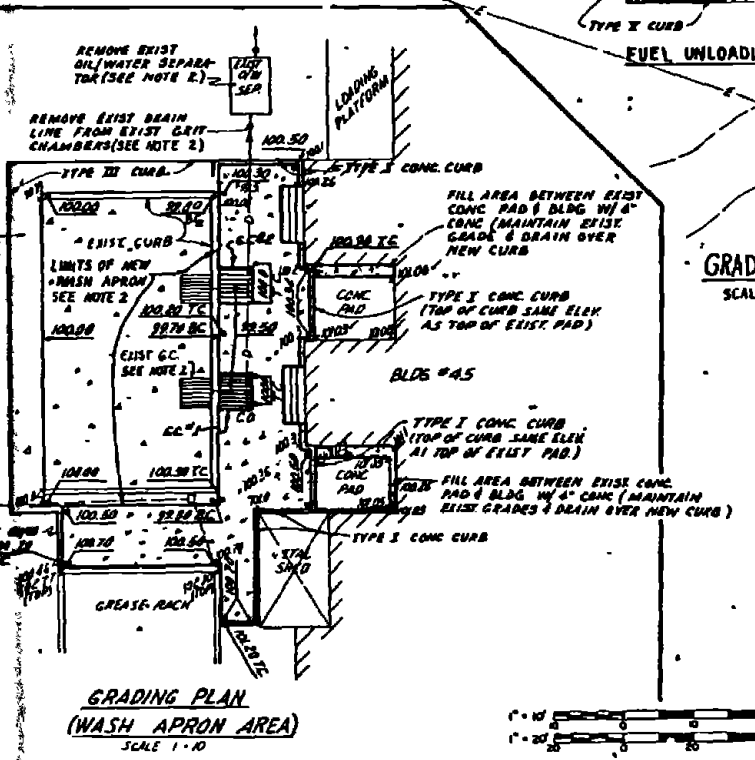


**SITE III B & C
LAYOUT PLAN
SCALE 1"=20'**

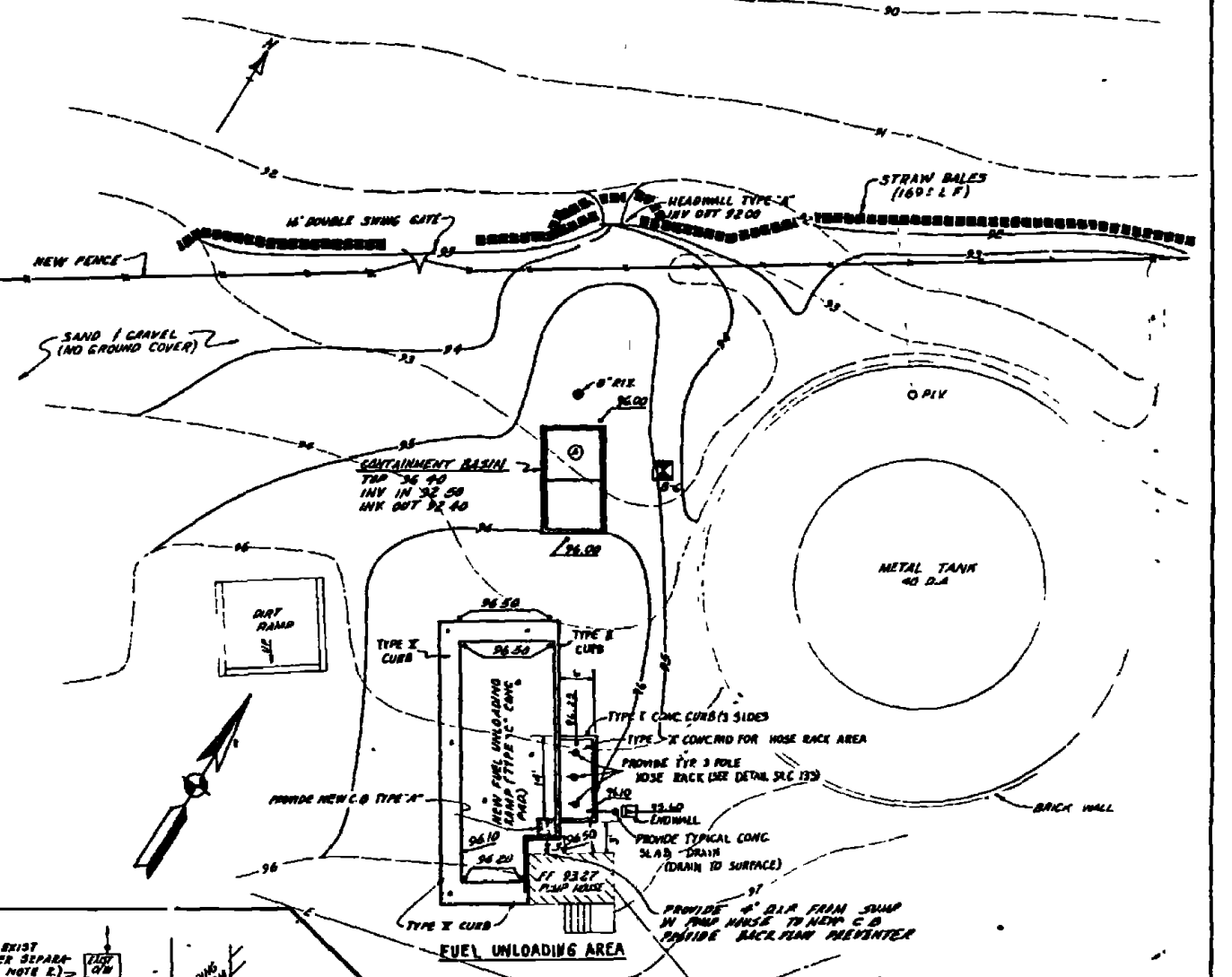
- NOTES**
- OIL DRUM STORAGE AREA SHALL BE PROVIDED WITH A TYPE 'B' CONC PAD DUE TO THE ELEVATION OF THE EXISTING PAD, THE THICKNESS WILL ONLY BE 4" IN SOME AREAS SEE GRADING PLAN THIS SHEET.
 - THE EXISTING WASH APRON, GRIT CHAMBERS AND OIL SEPARATION SHALL BE REMOVED AND THE HOLES BACKFILLED WITH SAND THE CONTRACTOR SHALL PROVIDE A NEW WASH APRON (TYPE 'C' CONC PAD) AND ASSOCIATED GRIT CHAMBERS, DRAIN LINES AND OIL SEPARATION THE NEW OIL SEPARATION SHALL BE CONNECTED TO THE EXISTING DISCHARGE DRAIN LINES.
 - CONTRACTOR SHALL PROVIDE STOPS AND PANELS, DRAIN PIPE AND NO TANK FOR THE EXIST GRASS RACK SEE SHEET C-30 FOR DETAIL.
 - REPLACE EXIST NOZZLE FOR FUEL DISPENSER LOCATED SOUTH OF BLDG #45 NEAR THE TRUCK ENTRANCE W/ A NEW AUTOMATIC SHUT OFF TYPE NOZZLE



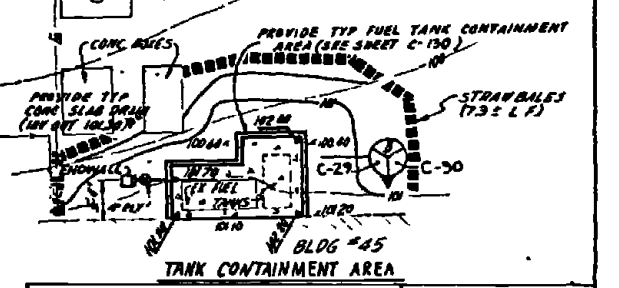
**GRADING PLAN
(OIL DRUM STORAGE AREA)
SCALE 1"=10'**



**GRADING PLAN
(WASH APRON AREA)
SCALE 1"=10'**

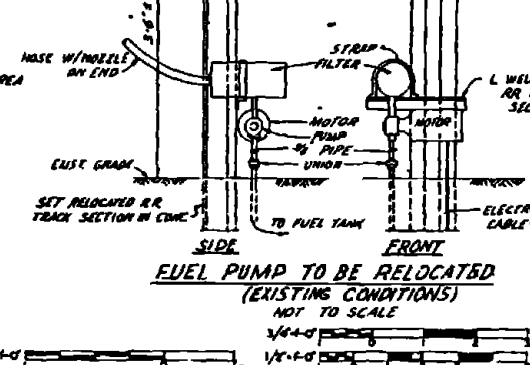
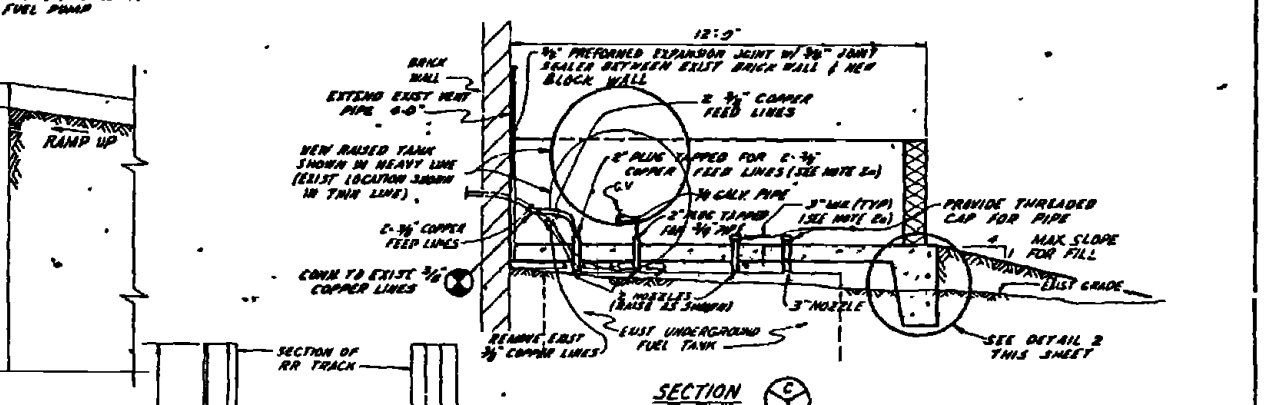
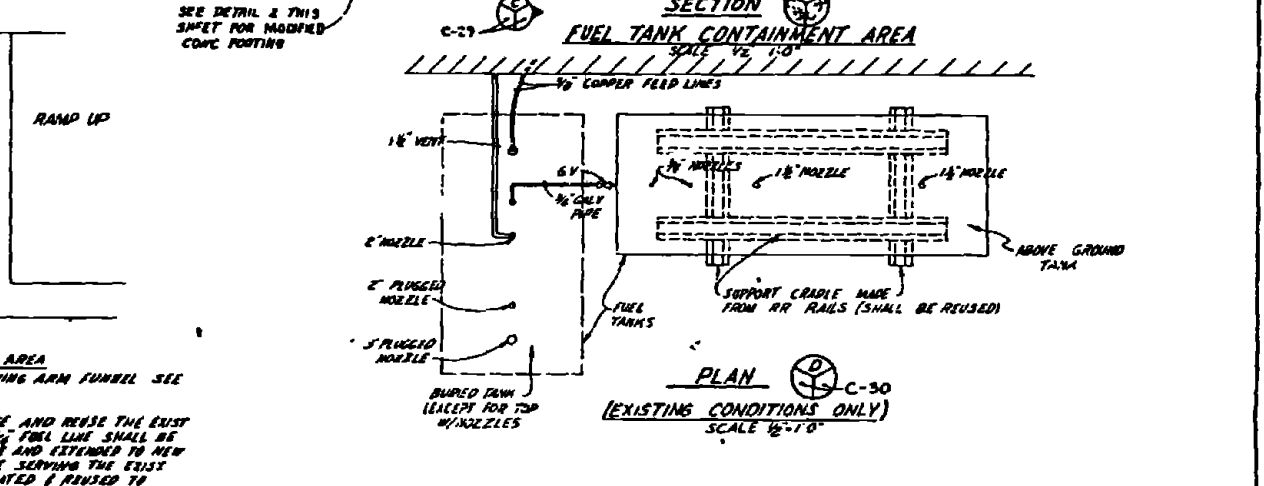
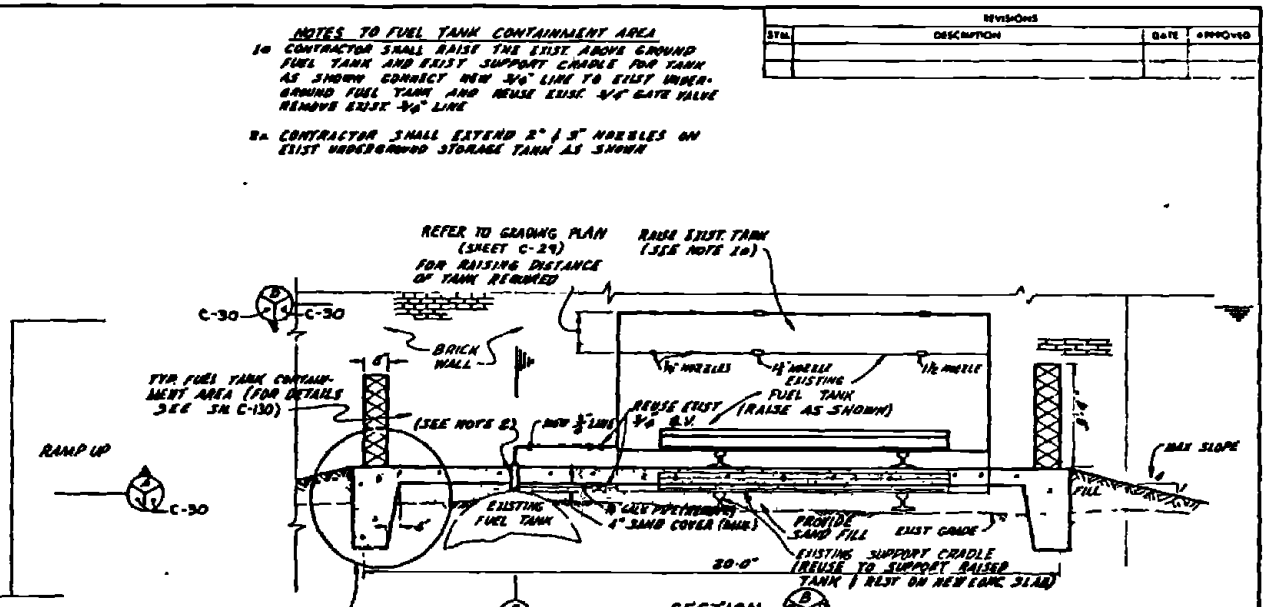
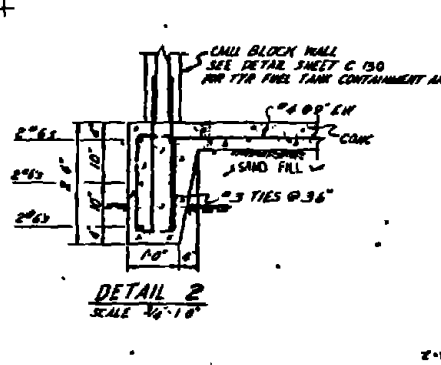
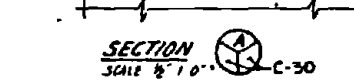
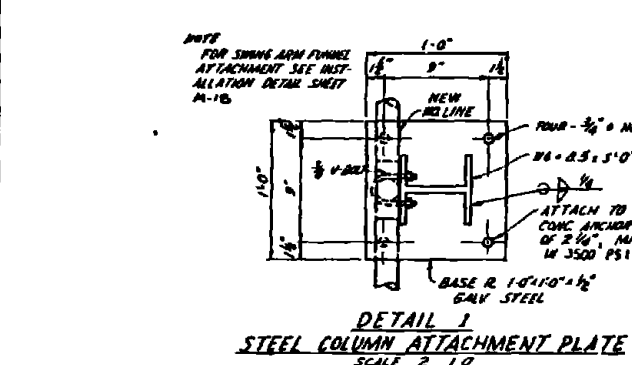
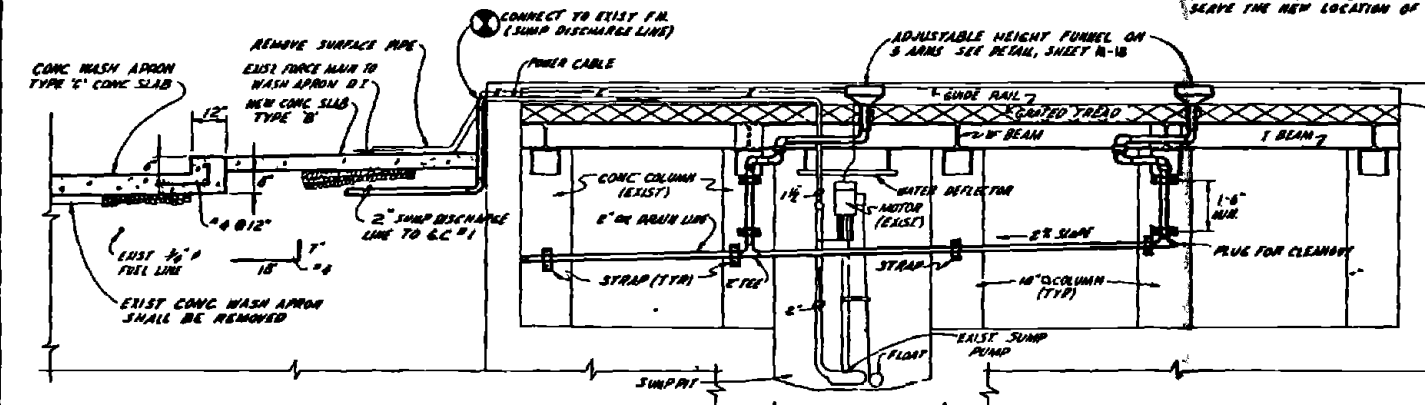
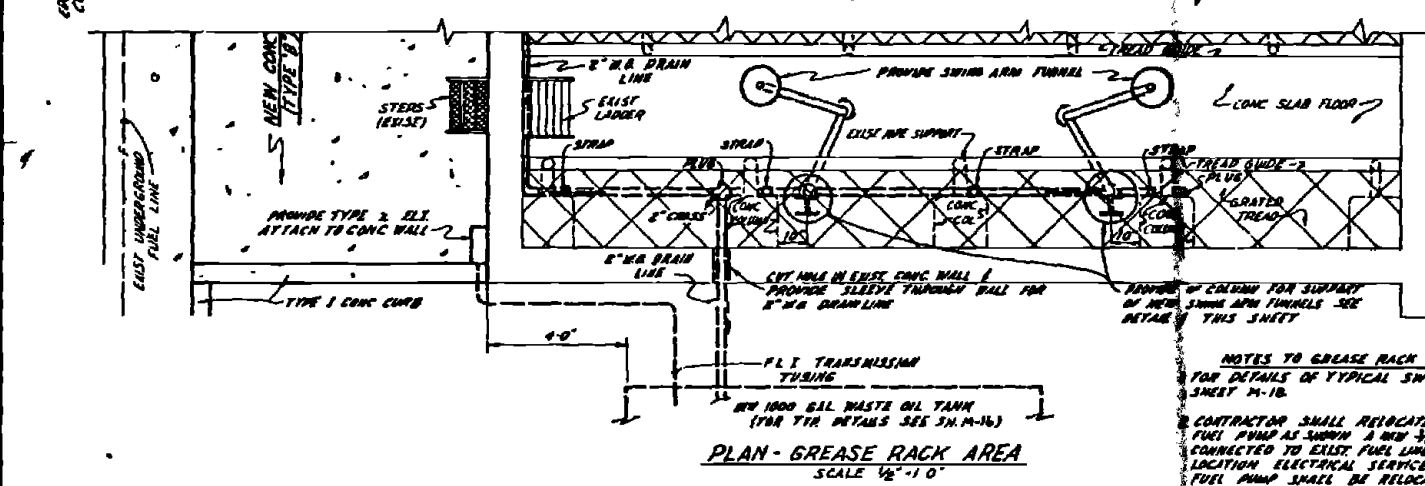
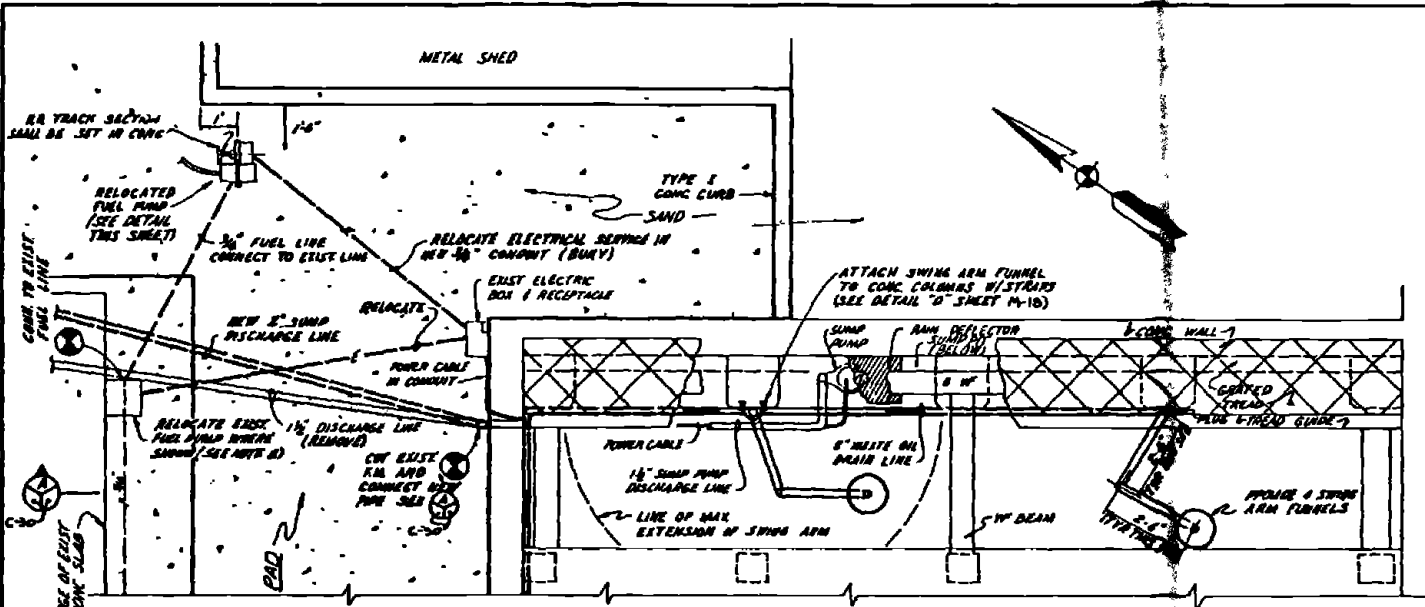


**GRADING PLAN
SCALE 1"=10'-0"**



**TANK CONTAINMENT AREA
SCALE 1"=10'-0"**

RECORD DRAWING DATE: FEB 11 1981	C-29
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS ARCHITECTS	NAVY FACILITIES ENGINEERING DIVISION ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEAUNE, NORTH CAROLINA
DESIGNED BY: J. L. BROWN DRAWN BY: J. L. BROWN CHECKED BY: J. L. BROWN DATE: 12/4/77	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS - SITE III-B & C CIVIL
APPROVED BY: J. L. BROWN DATE: 12/4/77	NO. 80091 4052098
PROJECT NO. 1200000000	CONTROL COPY NO. N6210-18-B-8260
DATE: 12/4/77	SHEET 1 OF 1



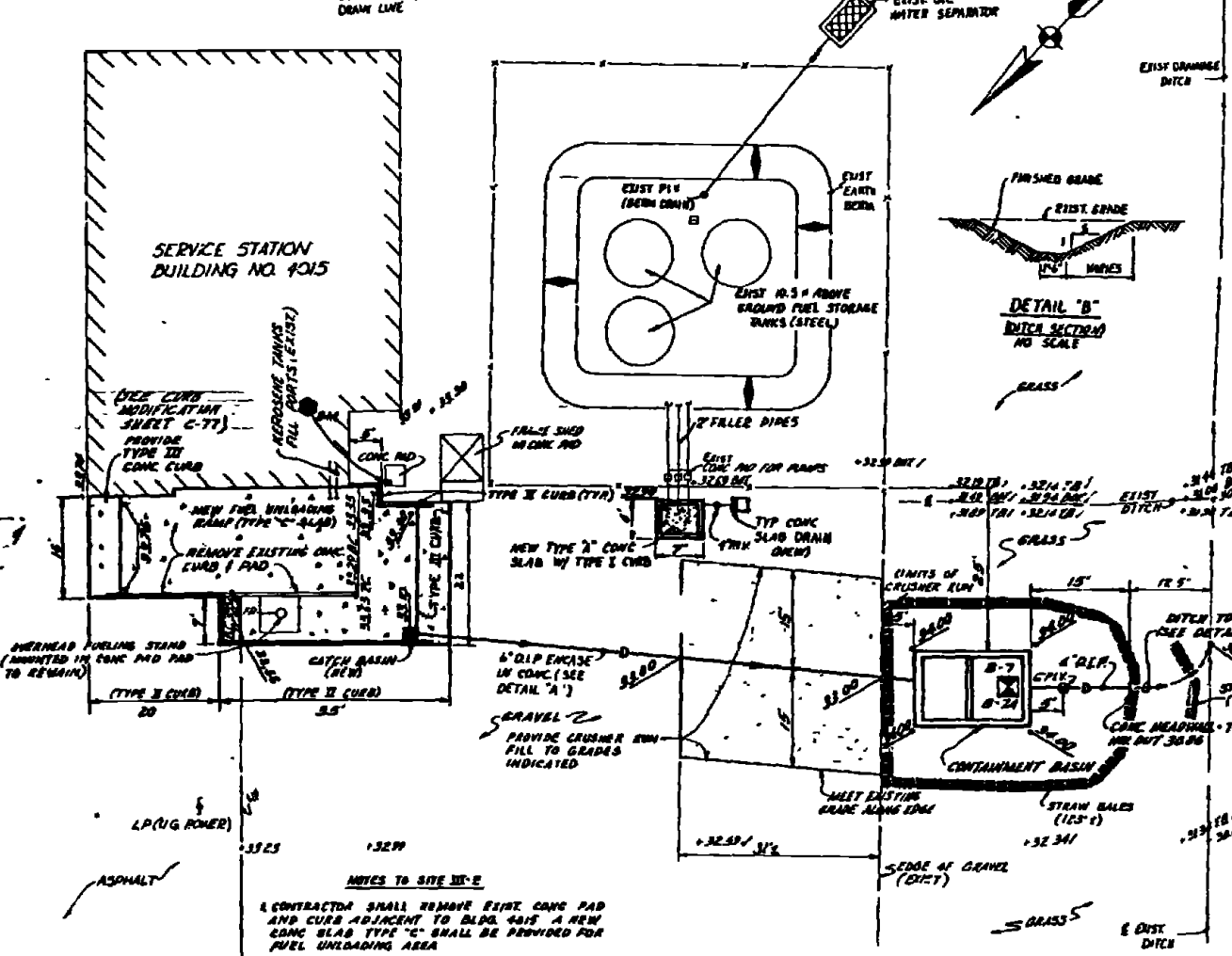
NOTES TO FUEL TANK CONTAINMENT AREA
 1a. CONTRACTOR SHALL RAISE THE EXIST ABOVE GROUND FUEL TANK AND EXIST SUPPORT CRADLE FOR TANK AS SHOWN. CONNECT NEW 3/4" LINE TO EXIST UNDERGROUND FUEL TANK AND REUSE EXIST 1/2" GATE VALVE REMOVE EXIST 3/4" LINE
 1b. CONTRACTOR SHALL EXTEND 2" x 3" NOZZLES ON EXIST UNDERGROUND STORAGE TANK AS SHOWN

SYMBOL	DESCRIPTION	DATE	APPROVED

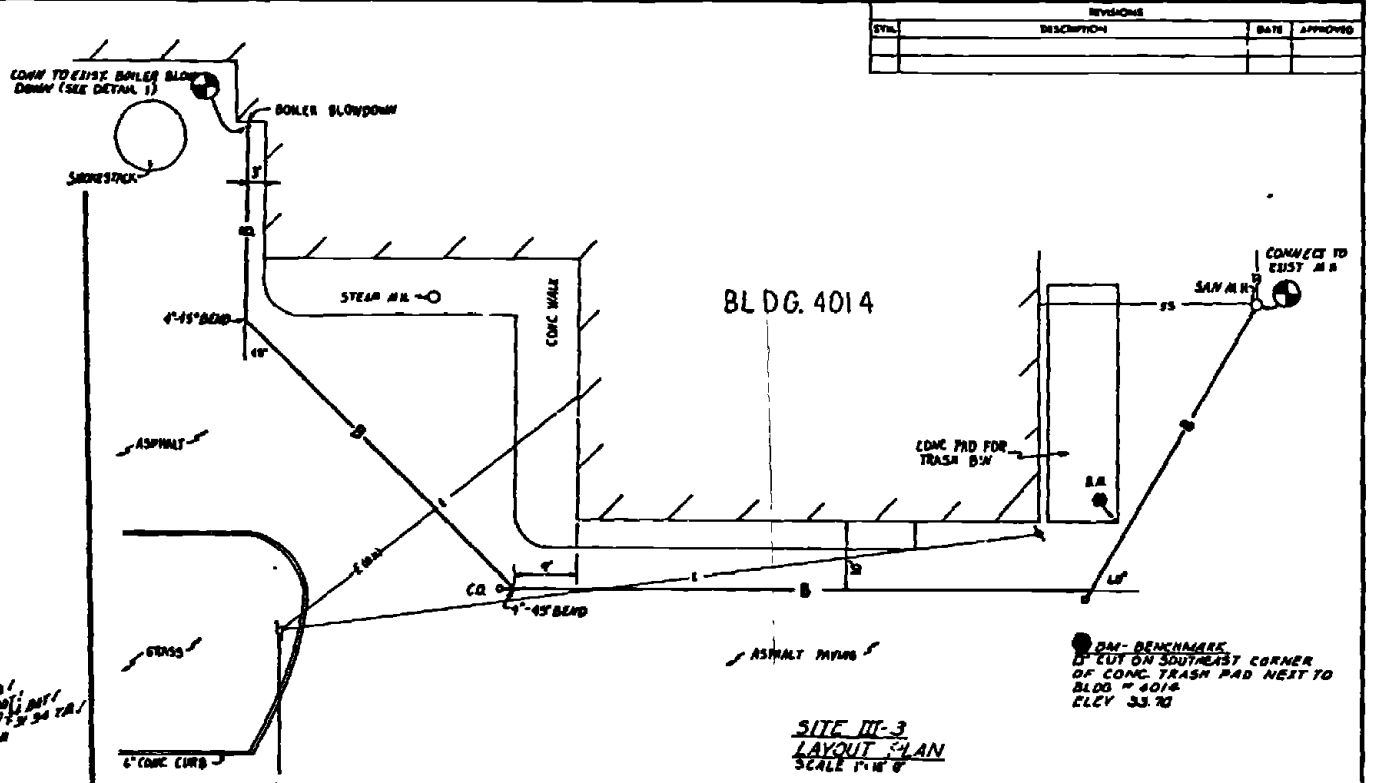
RECORD DRAWING DATE FEB 11 1961	C-30
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineers 1100 N. 1st St. Ft. Worth, Texas	DEPARTMENT OF THE ARMY ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DESIGNED BY: C. H. HARRIS CHECKED BY: J. H. HARRIS DATE: 1/11/61	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES DETAILS - SITE III - B & C CIVIL
PROJECT NO. 11-11-1 DRAWING NO. 405499	CONTRACT NO. N62470-18-B-8148 SHEET 2 OF 12

SYMBOL	DESCRIPTION	DATE	APPROVED

BM - BENCHMARK
 1" CUT ON NORTH CORNER OF
 CONC PAD NEAR INTERSECTION
 CORNER OF BLDG LCN 4015
 ELEV. 34.25

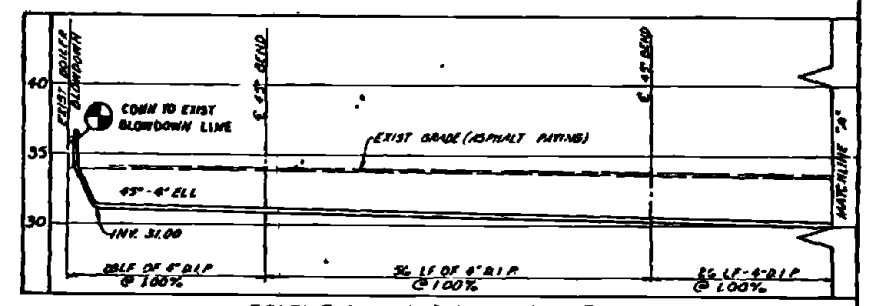


**SITE III-E
 LAYOUT & GRADING PLAN**
 SCALE 1" = 10'

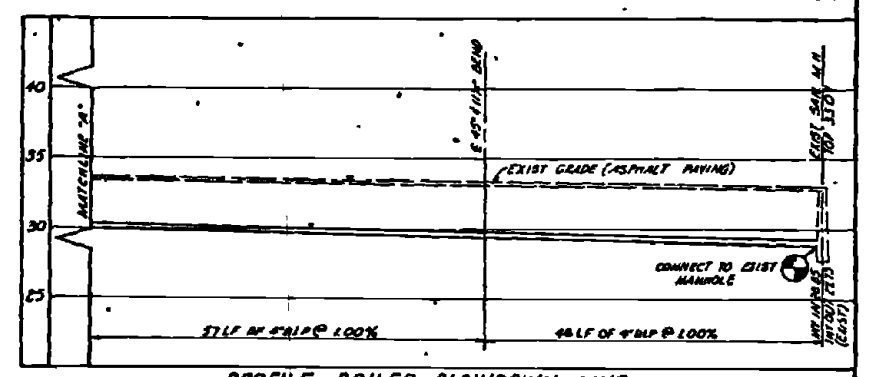


**SITE III-3
 LAYOUT PLAN**
 SCALE 1" = 10'

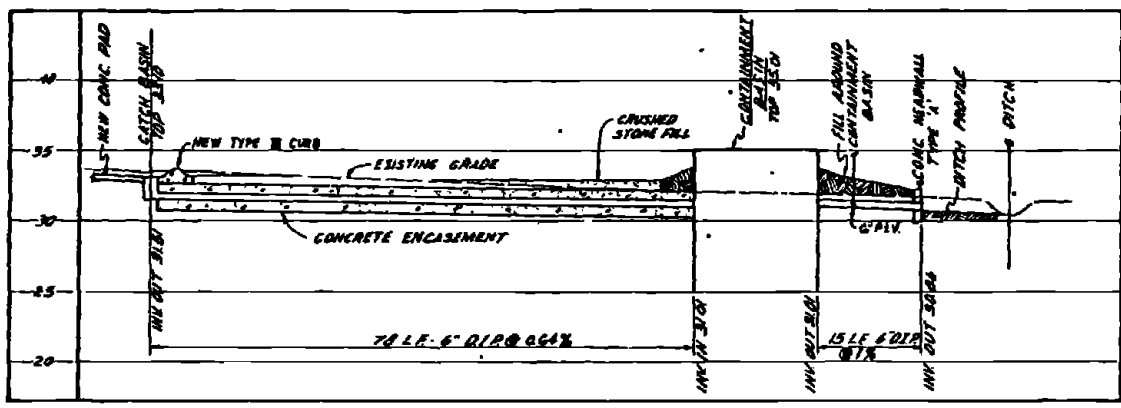
BM - BENCHMARK
 1" CUT ON SOUTHEAST CORNER
 OF CONC TRASH PAD NEXT TO
 BLDG # 4014
 ELEV. 33.70



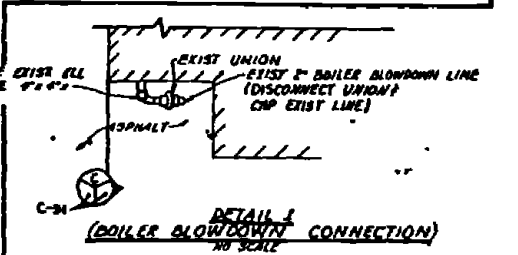
PROFILE - BOILER BLOWDOWN LINE
 SCALE VERT. 1" = 5'; HORIZ. 1" = 10'



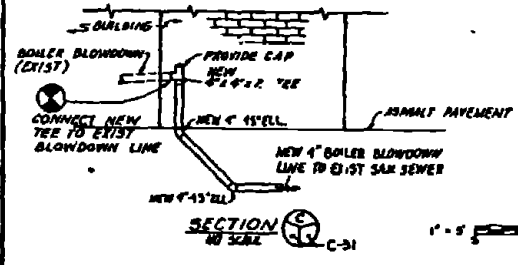
PROFILE - BOILER BLOWDOWN LINE
 SCALE VERT. 1" = 5'; HORIZ. 1" = 10'



PROFILE - 6" DRAIN LINE - SITE III-E
 SCALE HORIZ. 1" = 10'; VERT. 1" = 5'



**DETAIL I
 (BOILER BLOWDOWN CONNECTION)**
 NO SCALE



SECTION C-31
 NO SCALE

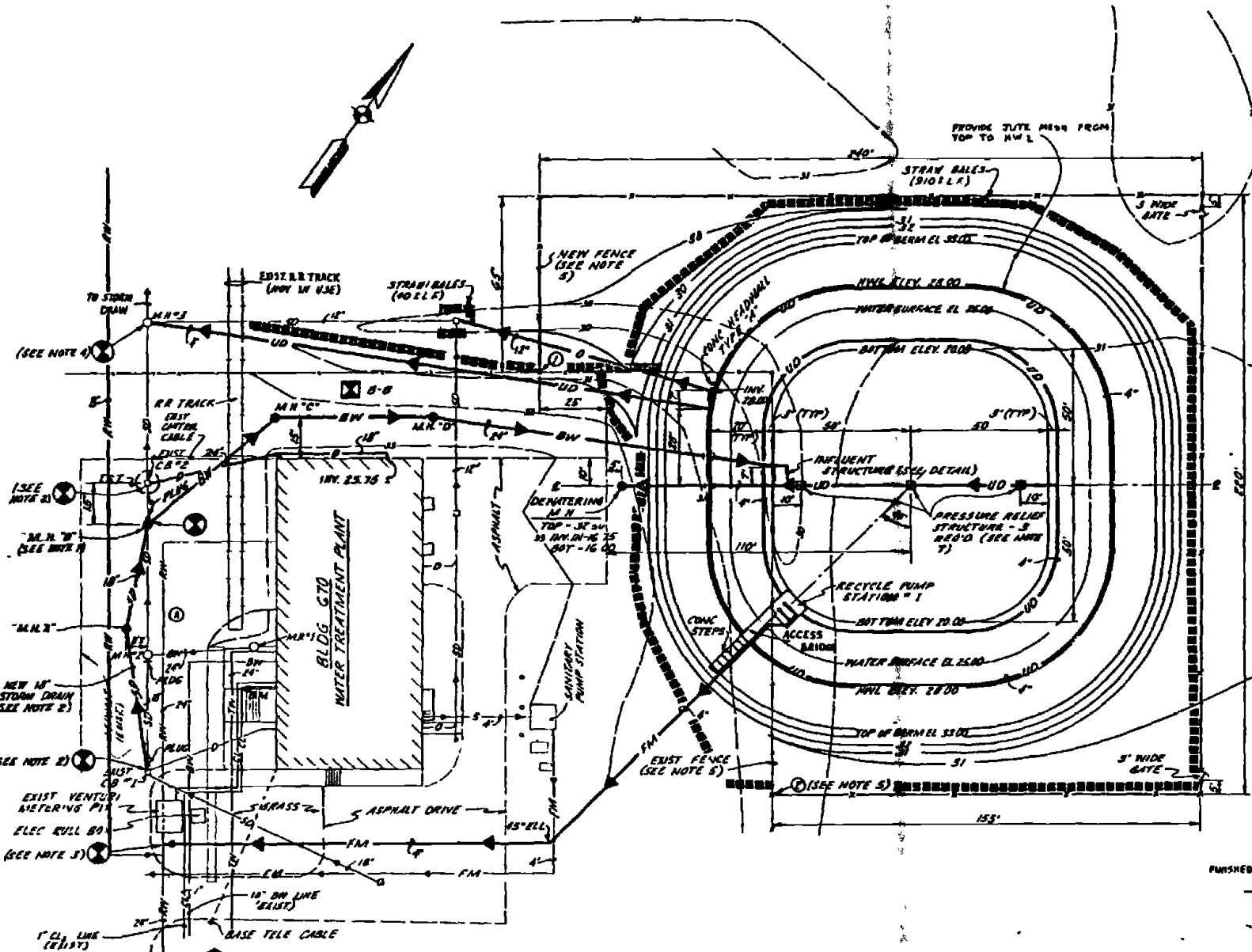
RECORD DRAWING 1" = 10'		C-31	
ALVIN BROCKENBROUGH AND ASSOCIATES ENGINEERS		ATLANTIC DIVISION	
PROJECT NO. 1211/22		MACHINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA	
DATE 12/11/72		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	
DRAWN BY R.E.S.		SITE PLAN 1 & PROFILES - SITES III-E & III-3	
CHECKED BY		CIVIL	
SCALE 1" = 10'		DRAWING NO. 4052500	
PROJECT NO. 1211/22		CONTRACT NO. 1211/22	
DATE 12/11/72		SHEET 31 OF 174	
BY		DATE	
BY		DATE	
BY		DATE	



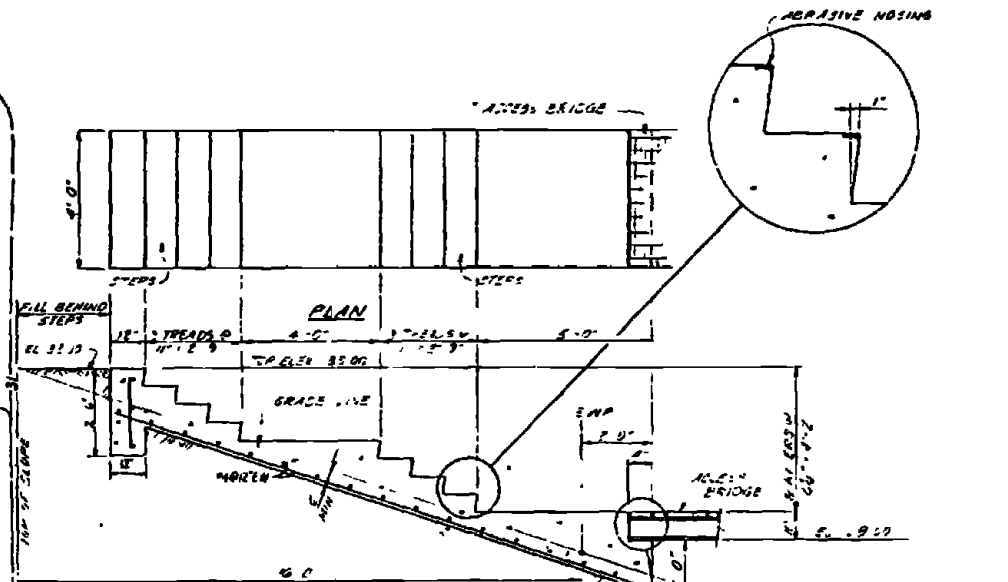
REV	DESCRIPTION	DATE	APPROVED
0	REVISION AS SHOWN	1/82	

NOTES:

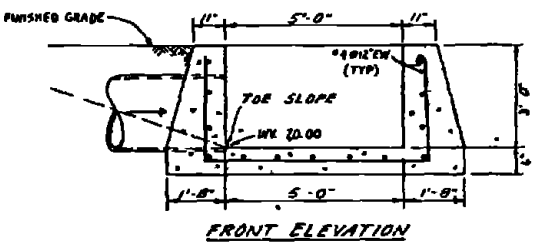
1. CONSTRUCT NEW MANHOLE B DIRECTLY OVER EXIST 24" SD LINE PLUS EXIST AND ABANDON LINE BETWEEN NEW MH B & EXIST C 9 #2
2. THE EXIST STORM DRAIN LINE BETWEEN C 0 #1 & MH #2 SHALL BE PLUGGED AND ABANDONED. A NEW 18" STORM DRAIN LINE BETWEEN C 0 #1 & C 0 #2 SHALL BE PROVIDED AS SHOWN.
3. CONNECT NEW FORCE MAIN FROM RECYCLE PUMP STATION TO EXIST 14" RAIN WATER LINE WHERE SHOWN. MAKE CONNECTION WITH TAPPING SLEEVE AND VALVE 1/2" DIA.
4. CONNECT NEW 4" UNDERDRAIN LINE FROM LAGOON TO EXIST MH #5. EXIST MH #5 HAS BEEN COVERED UP EARTH.
5. REMOVE EXIST FENCE LOCATED BETWEEN POINTS ① AND ②. PROVIDE NEW FENCE AS SHOWN.
6. 4" PERFORATED PIPE UNDERDRAINS SHALL BE INSTALLED UNDER THE LAGOON AND IN THE BERM WHERE SHOWN.
7. FOR INSTALLATION AND DETAILS OF POND LINER AND PRESSURE RELIEF VALVES SEE SHEET 1111.



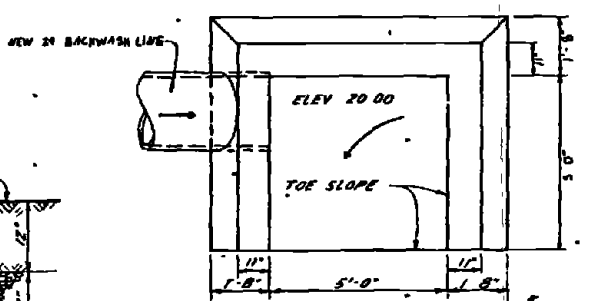
SITE III - 1 GRADING & LAYOUT PLAN
SCALE 1/2" = 1'-0"



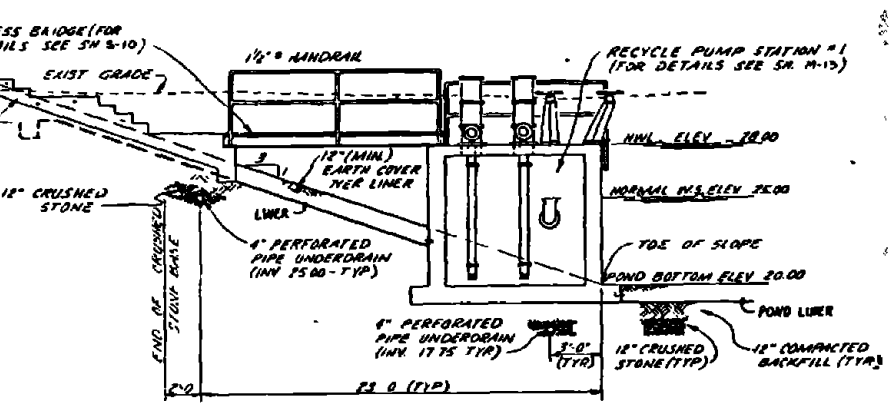
CONCRETE STEP DETAIL
SCALE 1/2" = 1'-0"



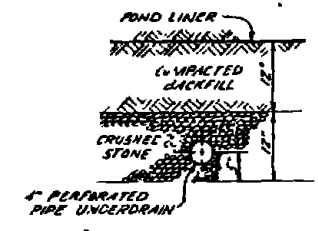
FRONT ELEVATION



INFLUENT STRUCTURE DETAIL
SCALE 1/2" = 1'-0"

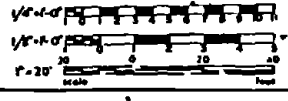


TYPICAL SECTION - SLUDGE LAGOON & PUMP STATION DETAIL
SCALE 1/2" = 1'-0"

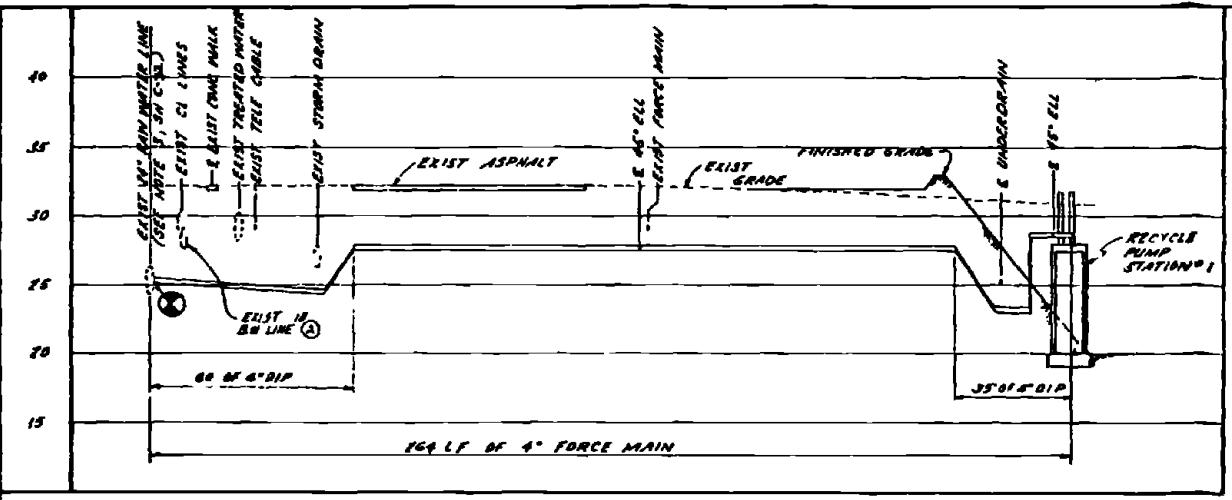


TYPICAL UNDERDRAIN DETAIL
NOT TO SCALE

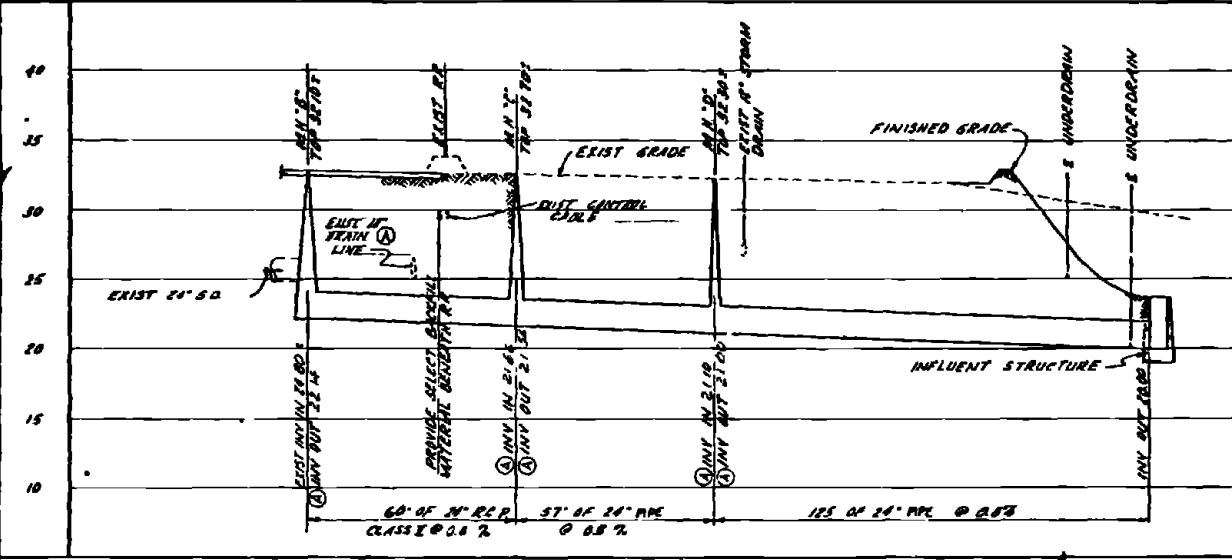
RECORD DRAWING DATE FEB 11 1993		C-32	
ALISTIN BROCKENBROUGH AND ASSOCIATES 1111 S. W. 11th St. MIAMI, FL 33135 TEL: 305-371-1111		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE SAMP LEJUNE, NORTH CAROLINA	
PROJECT NO. 80091 DATE 12/14/79 BY G.W.C. CHECKED BY G.W.C. APPROVED BY G.W.C.		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN-SITE III-1 CIVIL	
SCALE AS NOTED SPEC. 05 TO 8268		DRAWING NO. 4052501 SHEET 1 OF 1	



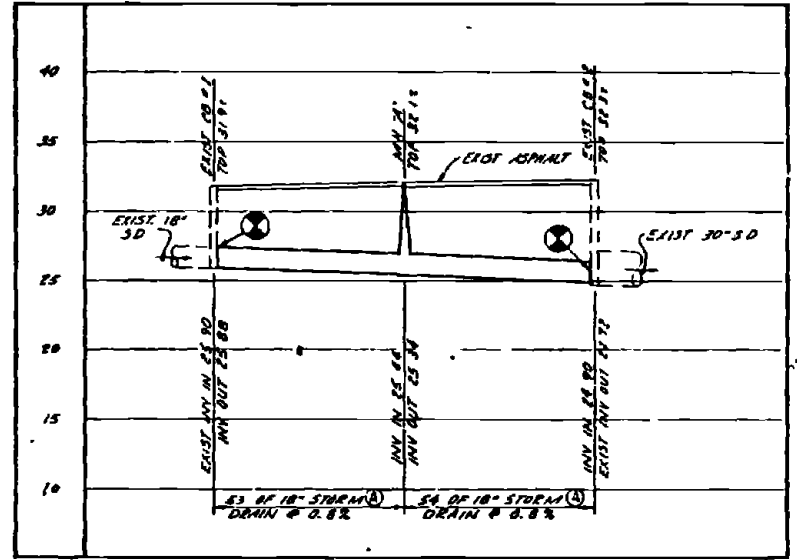
SYMBOL	DESCRIPTION	DATE	APPROVED
①	REFINED AS BUILT	1/27/77	



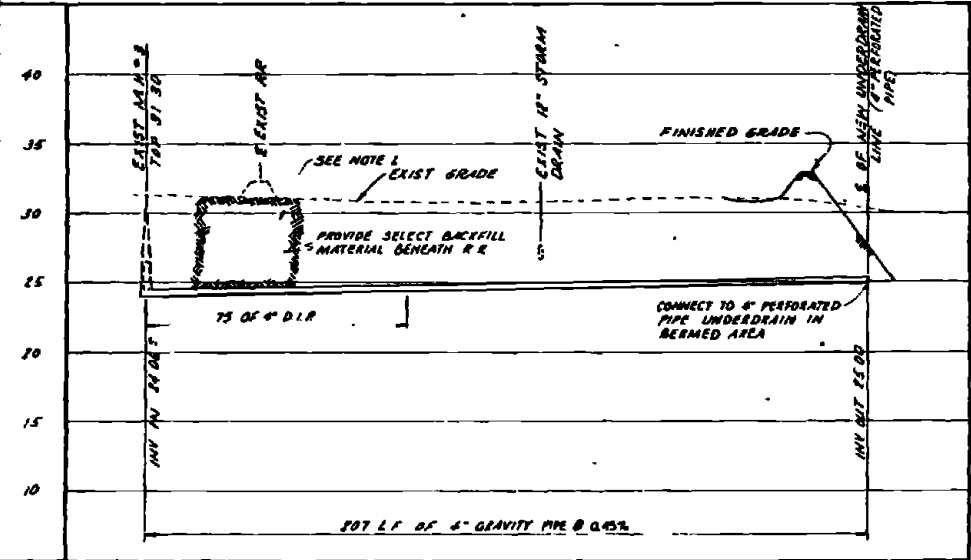
PROFILE. FORCE MAIN
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



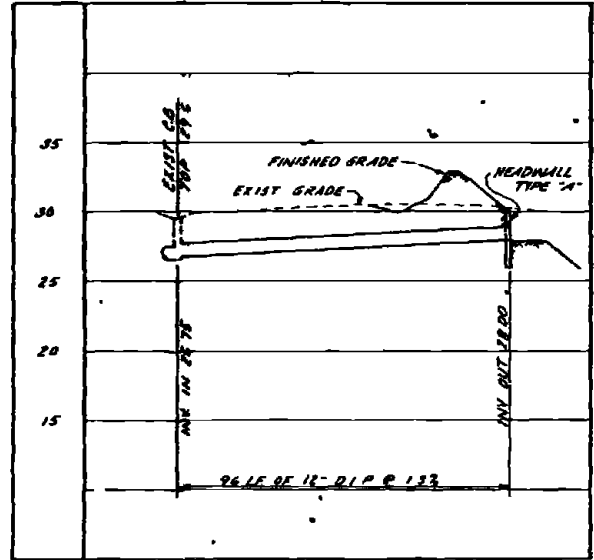
PROFILE BACKWASH LINE
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



PROFILE 18" STORM DRAIN
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)

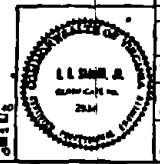
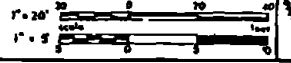


PROFILE UNDERDRAIN LINE
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



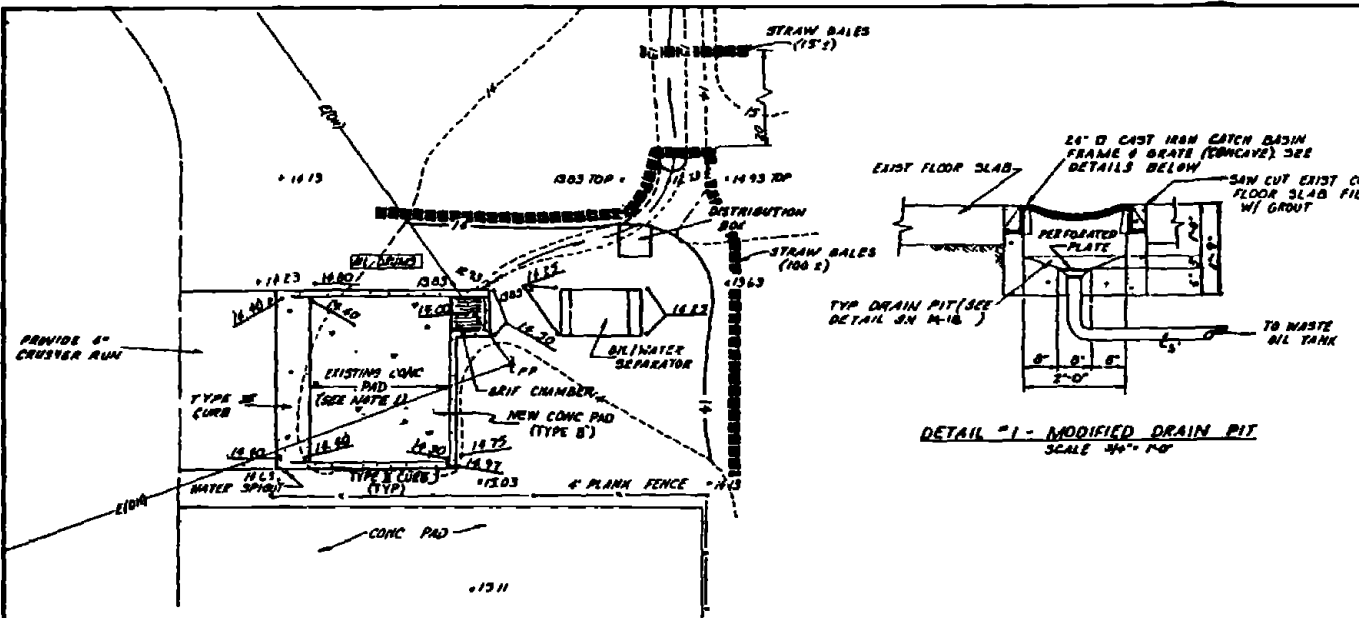
PROFILE OVERFLOW LINE
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)

NOTE
1. OPEN CUT UNDER EXIST RAILROAD TRACKS FOR INSTALLATION OF 4" UNDERDRAIN AND 24" BACKWASH LINE. CONTRACTOR SHALL RESTORE TRACK TO ITS ORIGINAL ALIGNMENT AND GRADE FOLLOWING INSTALLATION OF NEW LINES.

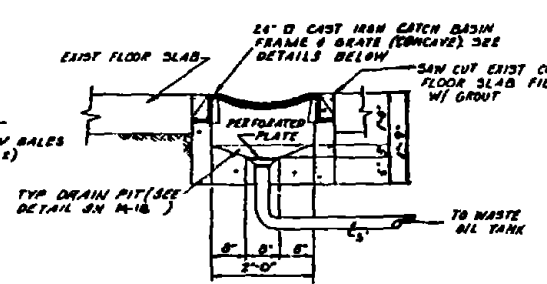


RECORD DRAWING DATE: FEB 11 1977		C-33	
AUSTIN BROCKENBROUGH AND ASSOCIATES CORPORATION 1215 W. 10TH ST. DURHAM, N.C. 27601		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MORNING STAR NORTH CAROLINA	
DESIGNED BY: WANG CHECKED BY: GUY DATE: 12/27/75		MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO.: 78-8-B268		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PROFILES-SITE III-1 CIVIL	
DRAWN BY: [Signature]		SCALE: 1" = 5' (VERT) 1" = 20' (HORIZ)	
APPROVED BY: [Signature]		DRAWING NO.: 4052502	
DATE: 1/27/77		CONTRACT NO.: 78-8-B268	
SHEET NO.: 3 OF 11		PROJECT NO.: 78-8-B268	

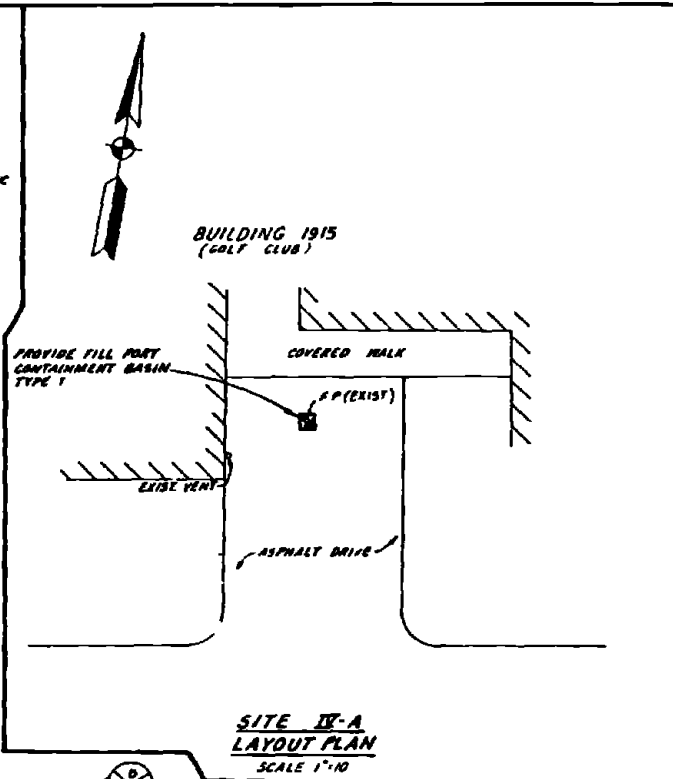
SYMBOL	DESCRIPTION	DATE	APPROVED



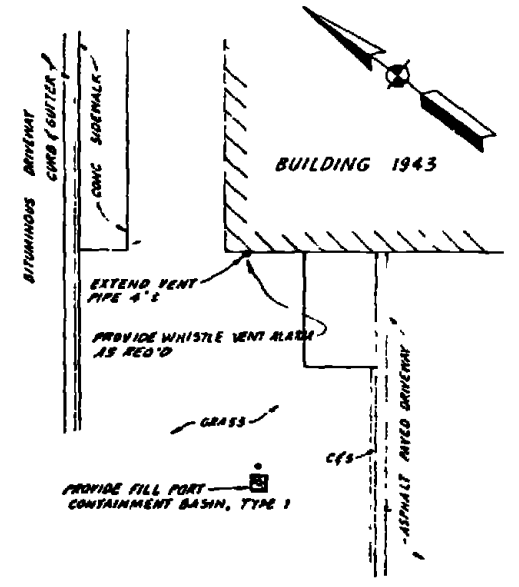
WASH APRON GRADING PLAN - SITE IX-D
SCALE: 1"=10'



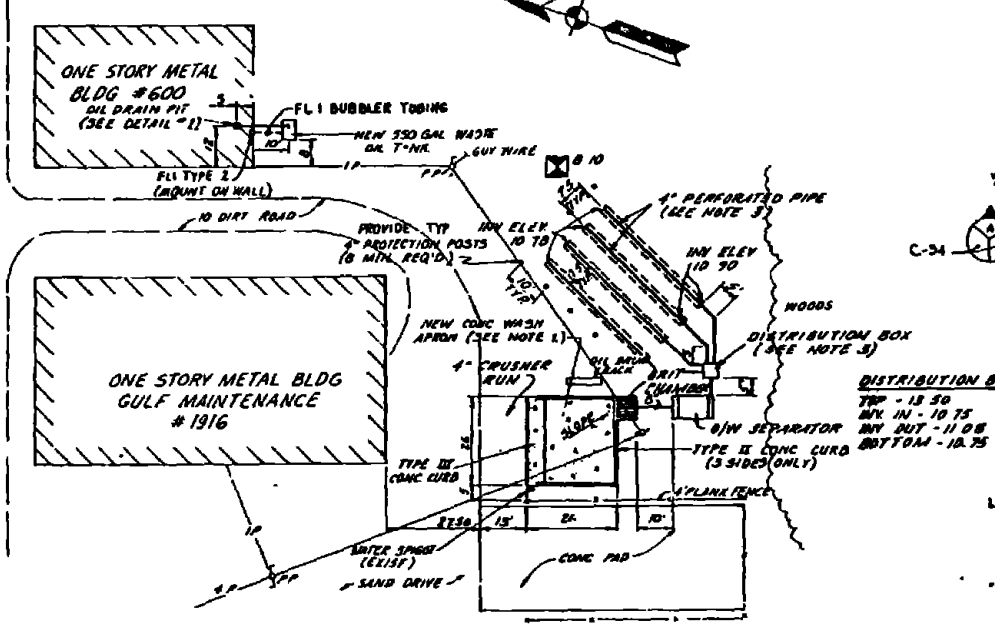
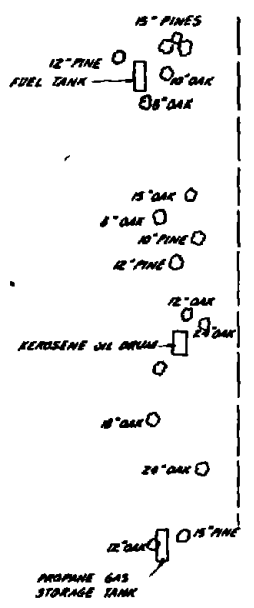
DETAIL 1 - MODIFIED DRAIN PIT
SCALE 3/4"=1'-0"



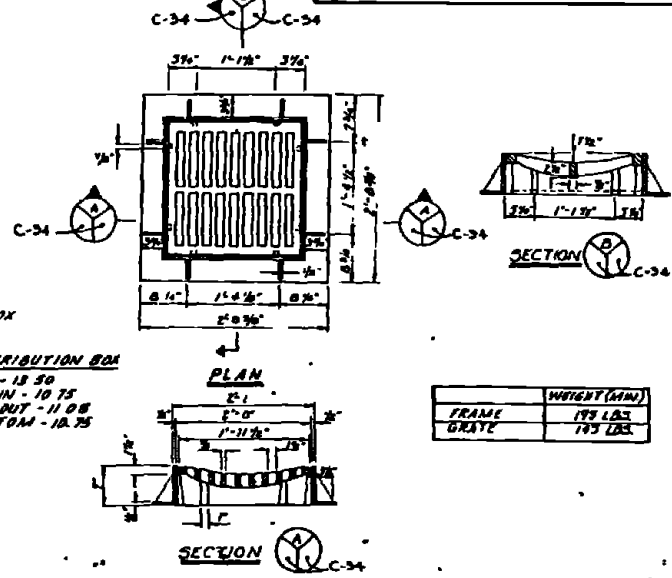
SITE IX-A LAYOUT PLAN
SCALE 1"=10'



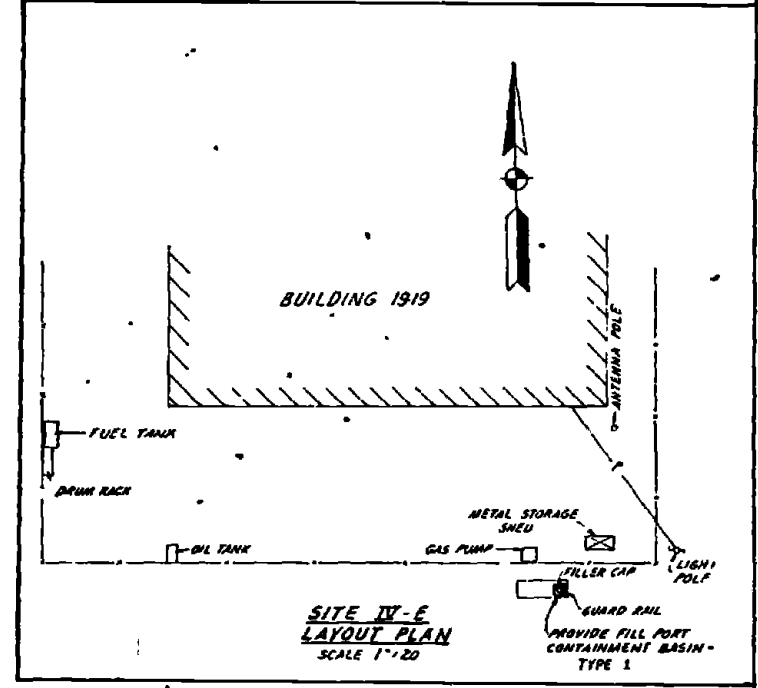
SITE IX-B LAYOUT PLAN
SCALE 1"=10'



SITE IX-D LAYOUT PLAN
SCALE 1"=10'



CAST IRON FRAME & GRATE DETAILS
NO SCALE



SITE IX-E LAYOUT PLAN
SCALE 1"=20'

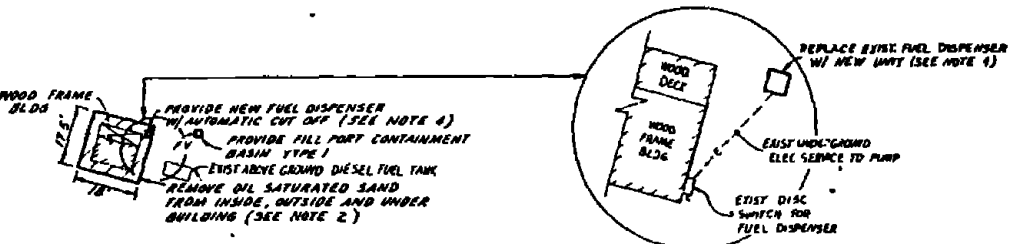
- NOTES**
- EXIST CONC PAD SHALL BE REMOVED PRIOR TO CONSTRUCTION OF NEW CONC WASH APRON. NEW CONC PAD SHALL BE TYPE 'B' AS SHOWN ON SH C-129.
 - CONTAMINATED SOIL SURROUNDING THE WOOD FRAME BUILDING WEST OF BLDG #1916 SHALL BE REMOVED & DISPOSED OF AS SPECIFIED. DISTURBED AREA SHALL BE TOPSOILED AND SEEDED.
 - FOR TYPICAL DETAILS OF DISTRIBUTION BOX AND DRAINFIELD SYSTEM SEE SHEET C-151.
 - A NEW FUEL DISPENSER WITH AUTOMATIC SHUT OFF NOZZLE SHALL BE PROVIDED TO REPLACE THE EXISTING DISPENSER. FOR TYPICAL DETAIL OF NEW FUEL DISPENSER, SEE SHEET M-20.

GRIT CHAMBER
TOP 14 00
INV. OUT 12 00
BOTTOM 10 00

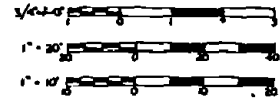
OW SEPARATOR
TOP 13 25
INV. IN 14 00
INV. OUT 11 75
BOTTOM 12 25

PROVIDE IN OIL DRAIN PIT TO BE LOCATED IN BLDG # 600

24" OAK B.M. - RAILROAD SPIKE IN BASE OF 24" OAK
ELEV - 14 32

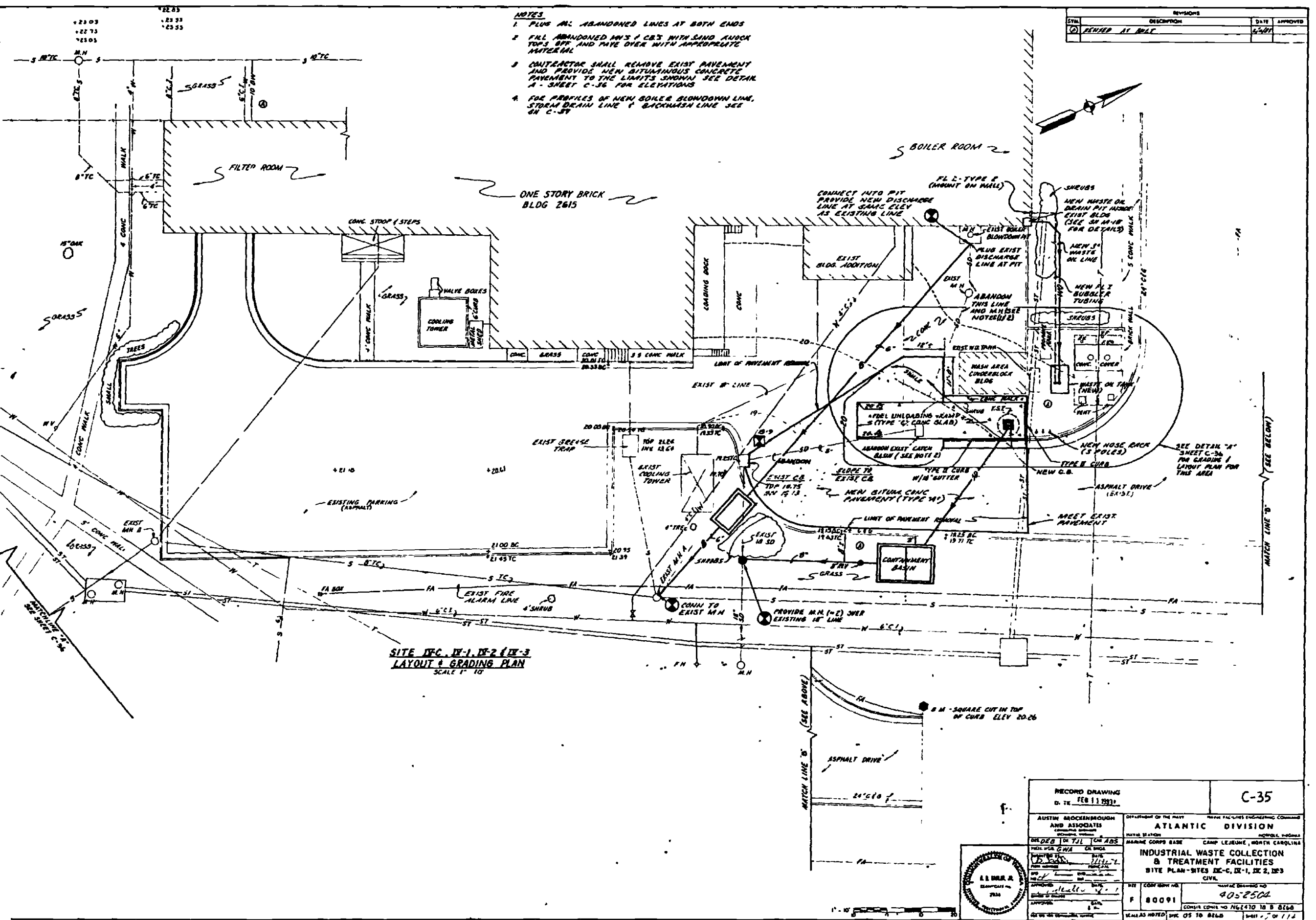


RECORD DRAWING DATE FEB 11 1981		C-34	
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 1073/122		ATLANTIC DIVISION	
PROJECT NO. GWA		MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA	
DATE 10/13/79		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	
BY [Signature]		SITE PLANS - SITES IX-A, IX-B, IX-D, IX-E	
CHECKED BY [Signature]		CIVIL	
APPROVED BY [Signature]		SCALE AS NOTED UNLESS OTHERWISE SPECIFIED	
DATE 11/1/79		SHEET 2 OF 11	
DRAWING NO. 80091		4052503	
SCALE AS NOTED UNLESS OTHERWISE SPECIFIED		SHEET 2 OF 11	



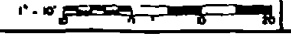
REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
1	REVISED BY HAND	5/20/71	

- NOTES**
1. PLUS ALL ABANDONED LINES AT BOTH ENDS
 2. FALL ABANDONED MNS & CBS WITH SAND AND ROCK TOPS OFF AND PAVE OVER WITH APPROPRIATE MATERIAL
 3. CONTRACTOR SHALL REMOVE EXIST PAVEMENT AND PROVIDE NEW BITUMINOUS CONCRETE PAVEMENT TO THE LIMITS SHOWN. SEE DETAIL A - SHEET C-36 FOR ELEVATIONS
 4. FOR PROFILES OF NEW BOILER BLOWDOWN LINE, STORM DRAIN LINE & BACKWASH LINE SEE ON C-37

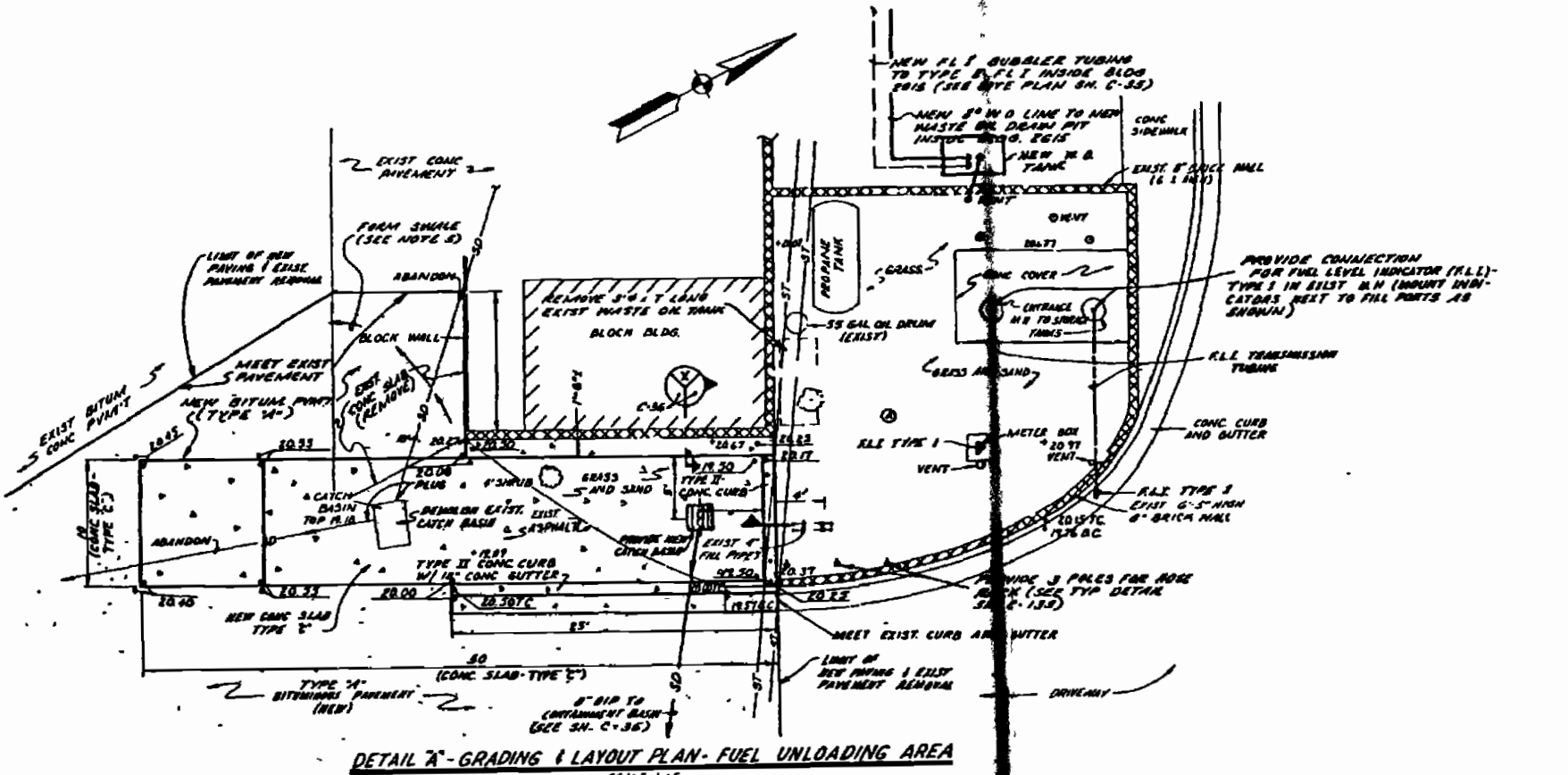


**SITE DFC. IX-1, IX-2 & IX-3
LAYOUT & GRADING PLAN
SCALE 1" = 10'**

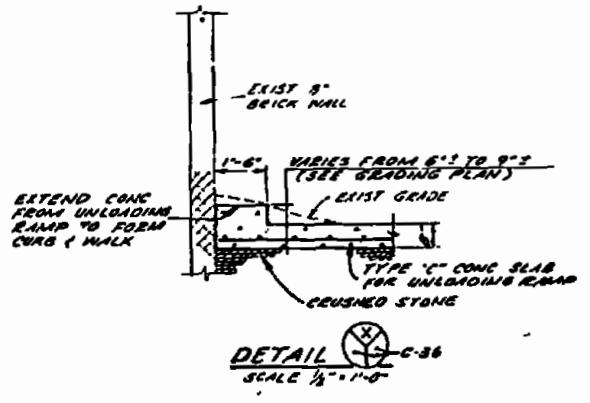
RECORD DRAWING DI. TX. FEB 11 1973		C-35	
AUSTIN BROCKENBROUGH AND ASSOCIATES CORPORATION ENGINEERS		DEPARTMENT OF THE ARMY NAVY FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO. 771 SHEET NO. 1111-1		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN - SITES IX-1, IX-2, IX-3 CIVIL	
DRAWN BY: [Signature] CHECKED BY: [Signature]		DRAWING NO. 405-2504	
APPROVED BY: [Signature]		F 80091	
DATE: 5/20/71		CONTRACT NO. N6470 10 B 8668	
SCALE AS NOTED: SPEC 05 TO BE 68		SHEET 1 OF 11	



REVISIONS		
NO.	DESCRIPTION	DATE APPROVED
(0)	REVISED AS SHOWN	5/24



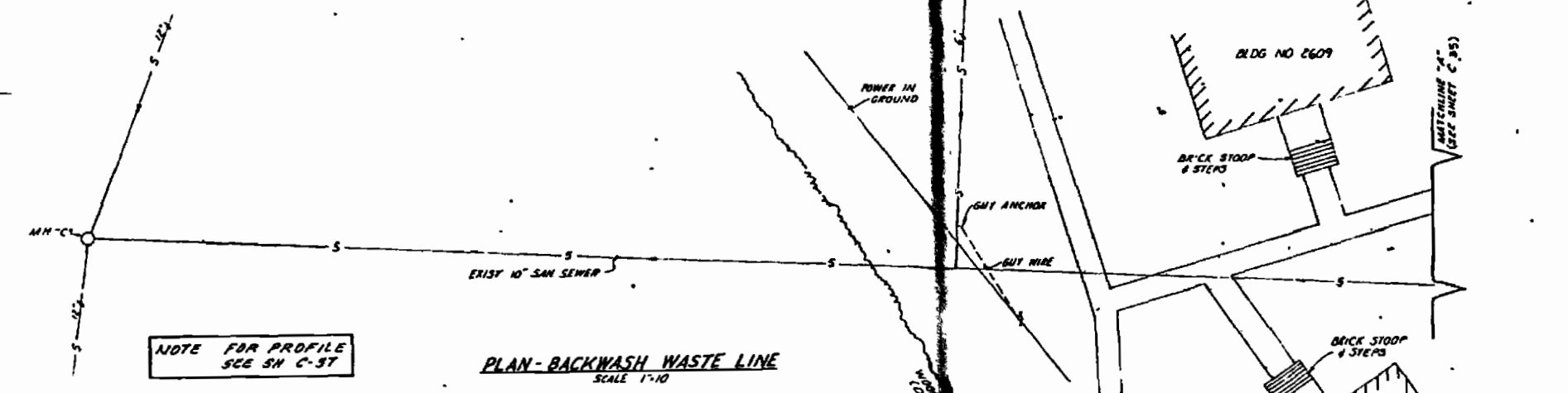
DETAIL 'A' - GRADING & LAYOUT PLAN - FUEL UNLOADING AREA
SCALE 1/2" = 1'-0"



DETAIL 'A' - C-36
SCALE 1/2" = 1'-0"

NOTES

1. FOR DETAILS OF FUEL LEVEL INDICATORS TYPE 1 AND TYPE 2 SEE SH M-17.
2. FOR LOCATION OF BENCHMARK BM SEE SH C-35.
3. CONTRACTOR SHALL REMOVE EXISTING ASPHALT PAVEMENT AND CONC CURB AND GUTTER AS REQUIRED FOR CONSTRUCTION OF NEW CONC SLAB AND BITUMINOUS PAVEMENT.
4. FUEL UNLOADING RAMP SHALL BE CONSTRUCTED W/ TYPE 'C' CONC SLAB AS OBTAINED ON SH C-129.
5. FORM DRAINAGE SWALE ON NEW PAVEMENT TO DIVERT RUNOFF FROM NEW FUEL UNLOADING RAMP.
6. FOR FUEL LEVEL INDICATOR DETAILS, SEE SHEET M-17.

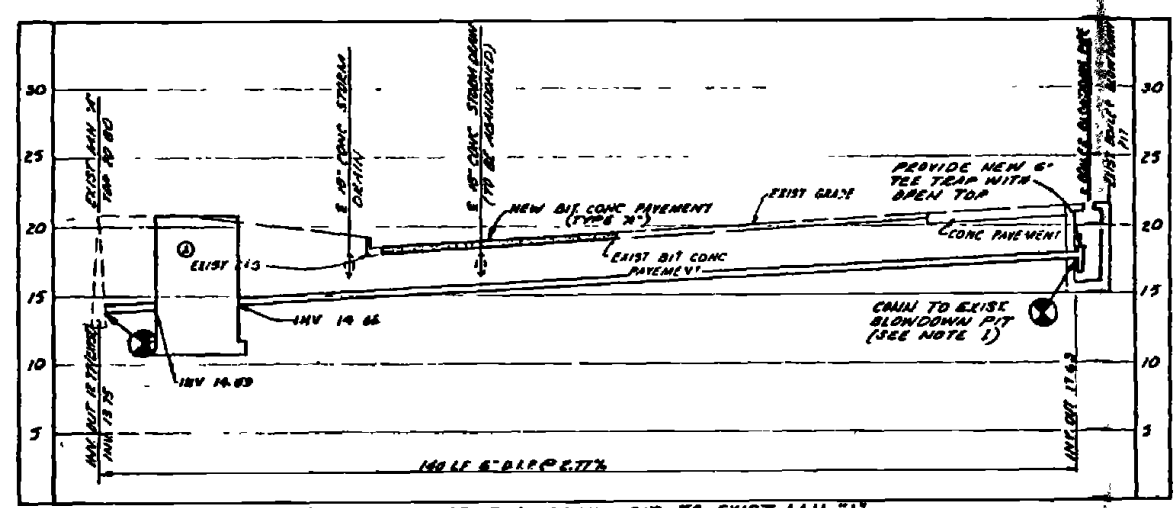


PLAN - BACKWASH WASTE LINE
SCALE 1" = 10'



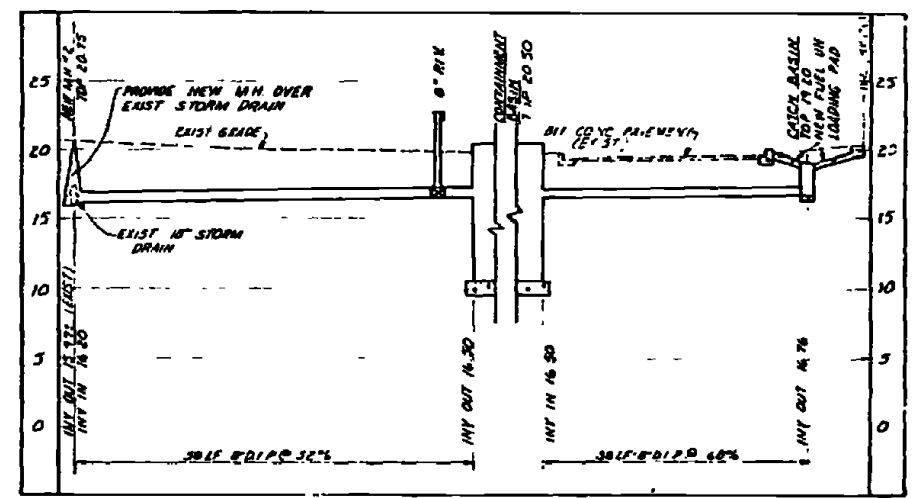
RECORD DRAWING FEB 11 2024 C-36	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
AUSTIN BROCKENOUGH AND ASSOCIATES CONSULTING ENGINEERS 1117 N. J. BLVD. SUITE 100 Raleigh, NC 27601 919.877.1177	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PLANS & DETAILS - SITES IX-C, IX-1, IX-2 & IX-3
PROJECT NO. 05-10-0268	CONTRACT NO. N62470-78-D-0060
DATE: 11/19/77	DRAWING NO. 80091
SCALE: 1" = 10'	PLATE NO. 1 OF 11
ISSUED BY: [Signature]	DATE: 5/24/84

REV	DESCRIPTION	DATE	APPROVED
1	REVISED AS BUILT	4/78	

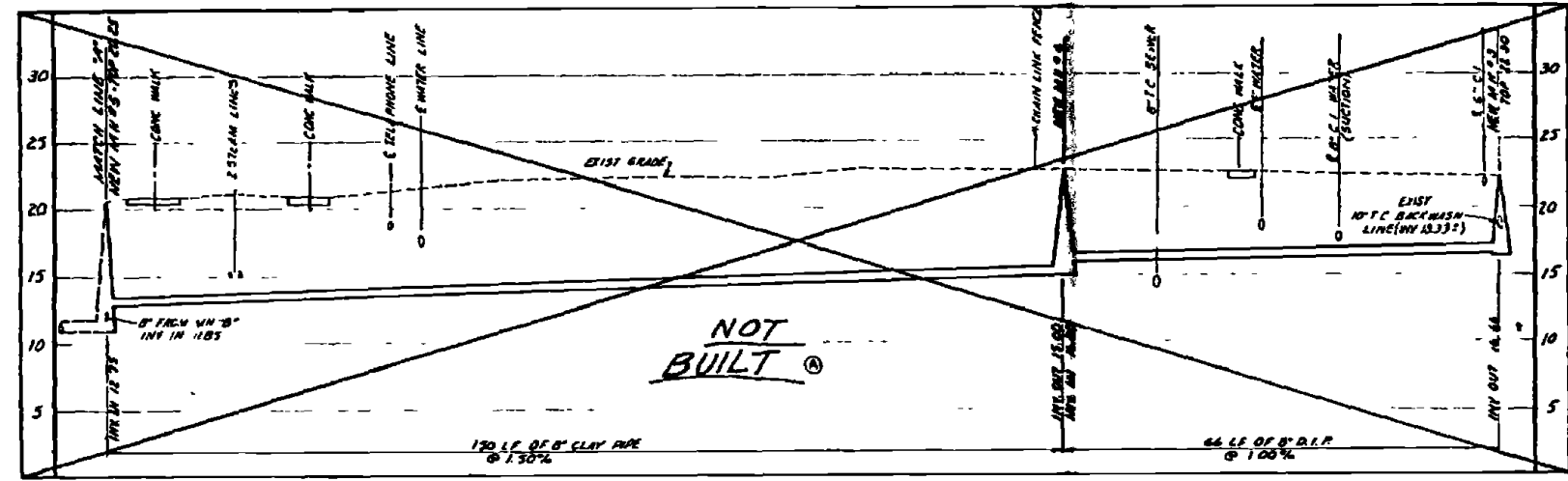


PROFILE- BOILER BLOWDOWN PIT TO EXIST MH "A"
SCALE HORIZONTAL 1"=10', VERTICAL 1"=5'

- NOTES:**
- 1 REMOVE AND PLUG EXIST DISCHARGE LINE FROM THE BOILER BLOWDOWN PIT. SET AND INVERT BUT AT SAME INVERT ELEVATION AS EXISTING.
 - 2 FOR PLAN VIEWS SEE SITE PLANS, SHEETS C-36 & C-36

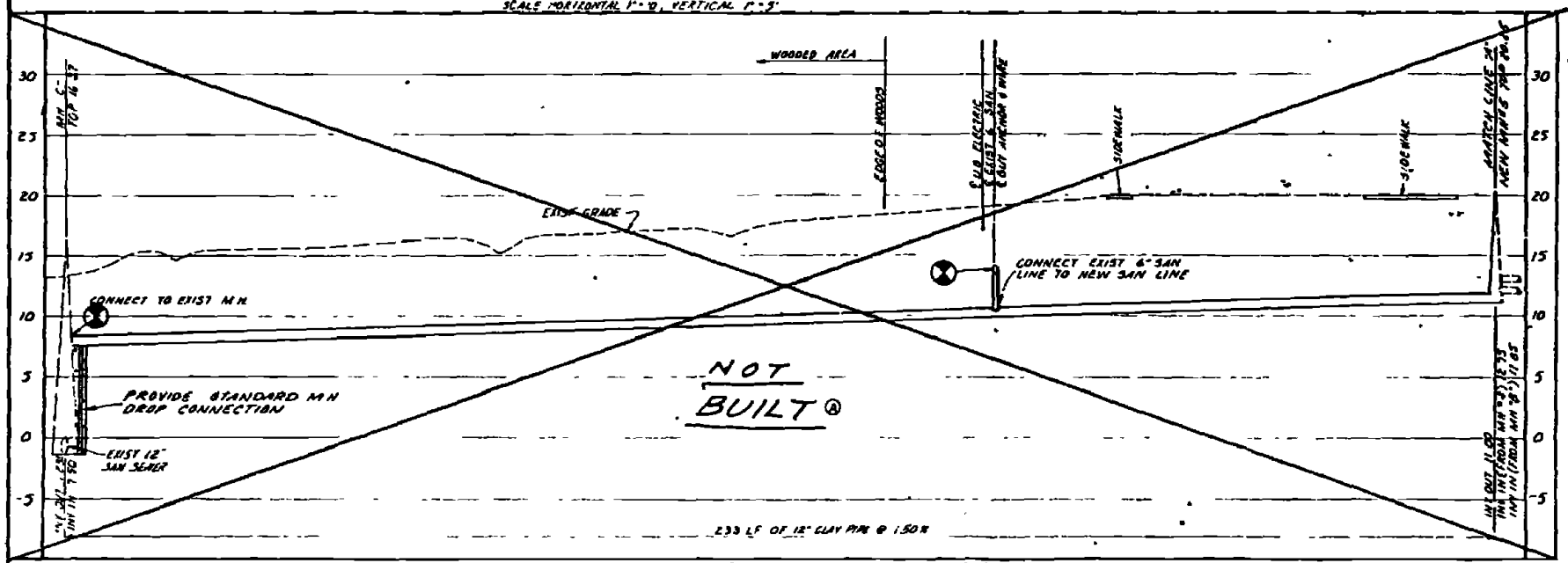


PROFILE- FUEL UNLOADING PAD AREA
SCALE HOR 1"=10', VERT 1"=5'



PROFILE- BACKWASH WASTE LINE MH-3 TO MH-5
SCALE HORIZONTAL 1"=10', VERTICAL 1"=5'

NOT BUILT

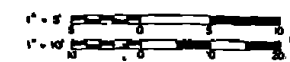


PROFILE- BACKWASH WASTE LINE, MH-5, MH "C"
SCALE VERTICAL 1"=5', HORIZONTAL 1"=10'

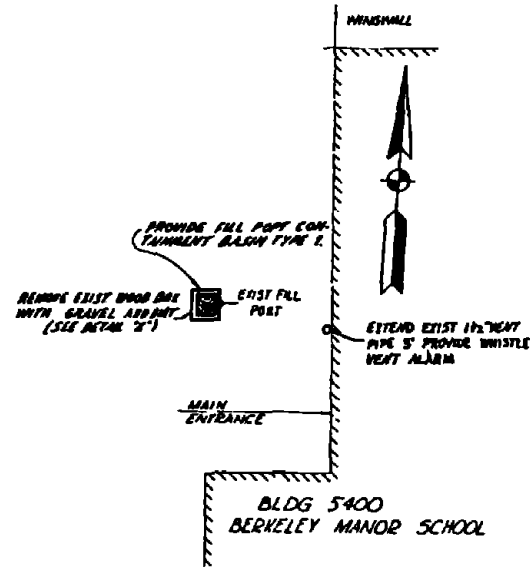
NOT BUILT



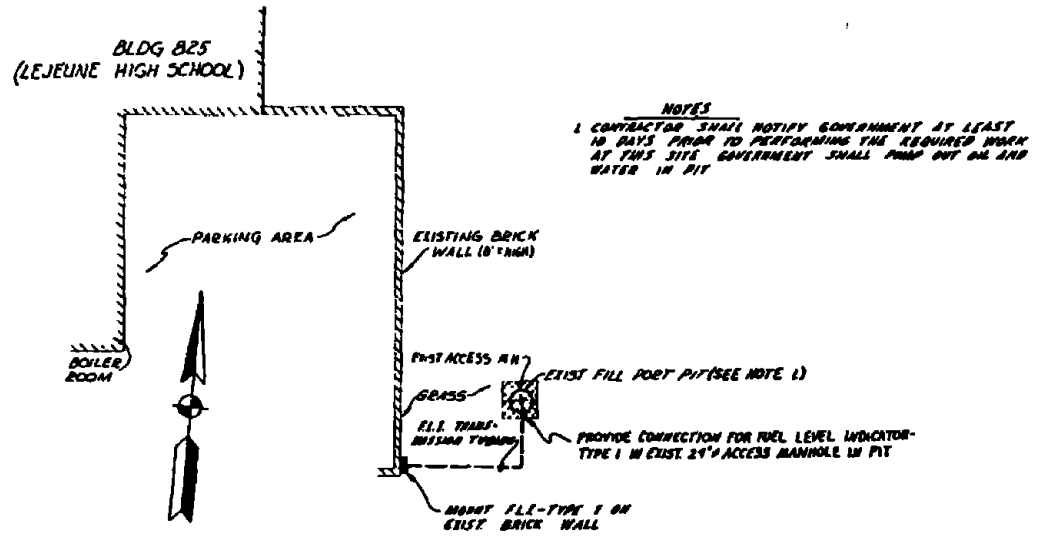
SECOND DRAWING DATE: FEB 11 1981		C-37	
AUSTIN BROOKINGS AND ASSOCIATES Civil Engineers 1000 S. W. 10th St. Fort Lauderdale, FL 33304		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION FPO 490091 CAMP LEJEUNE, NORTH CAROLINA	
DESIGNER: G. W. J. DATE: 12/11/79 CHECKED: DATE: 1/11/80 APPROVED: DATE: 1/11/80		PROJECT NO.: 4052506 DRAWING NO.: 4052506 SCALE: AS NOTED	



REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

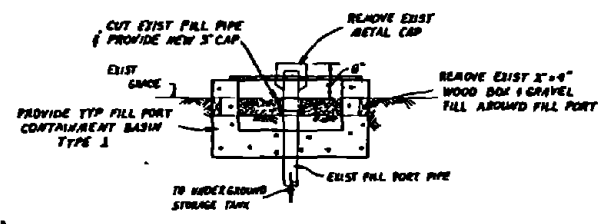


SITE X-A
LAYOUT PLAN
SCALE 1" = 10'

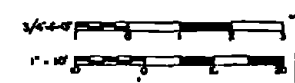


NOTES
 1 CONTRACTOR SHALL NOTIFY GOVERNMENT AT LEAST 10 DAYS PRIOR TO PERFORMING THE REQUIRED WORK AT THIS SITE GOVERNMENT SHALL PUMP OUT OIL AND WATER IN PIT

SITE X-B
LAYOUT PLAN
SCALE 1" = 10'

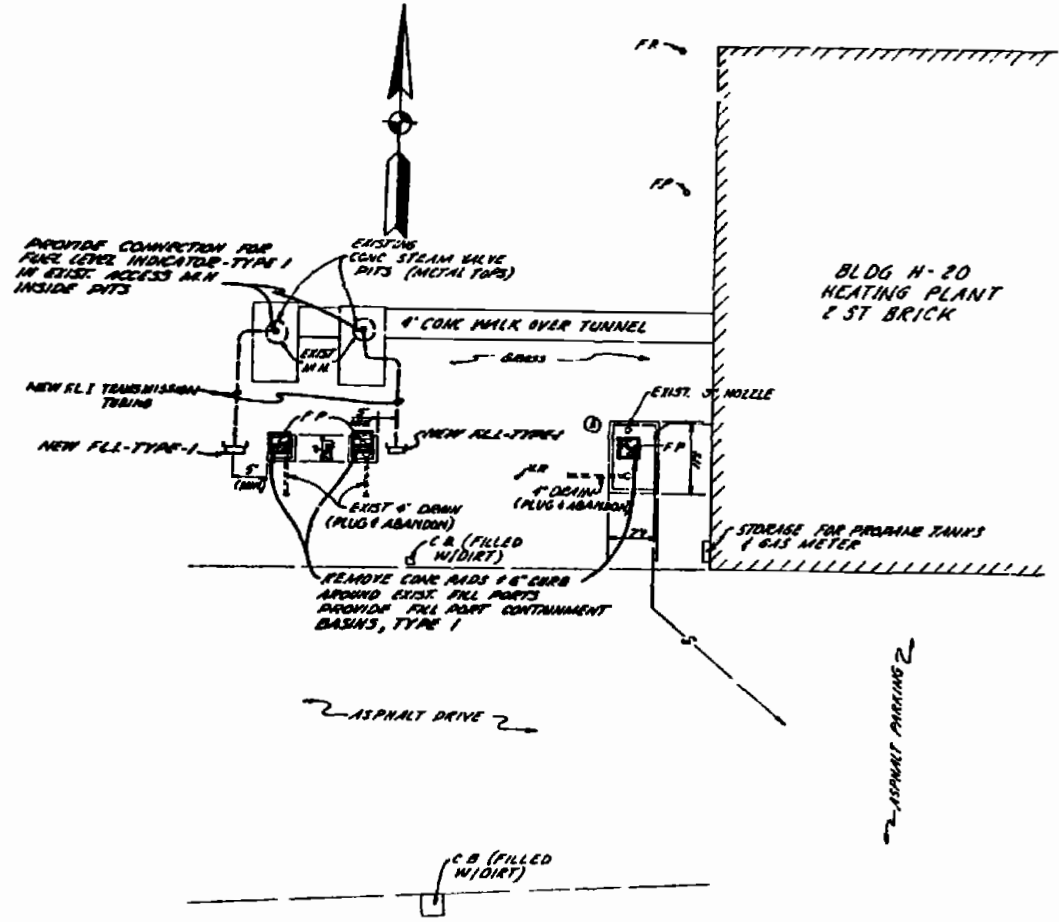


DETAIL X
SCALE 3/4" = 1'

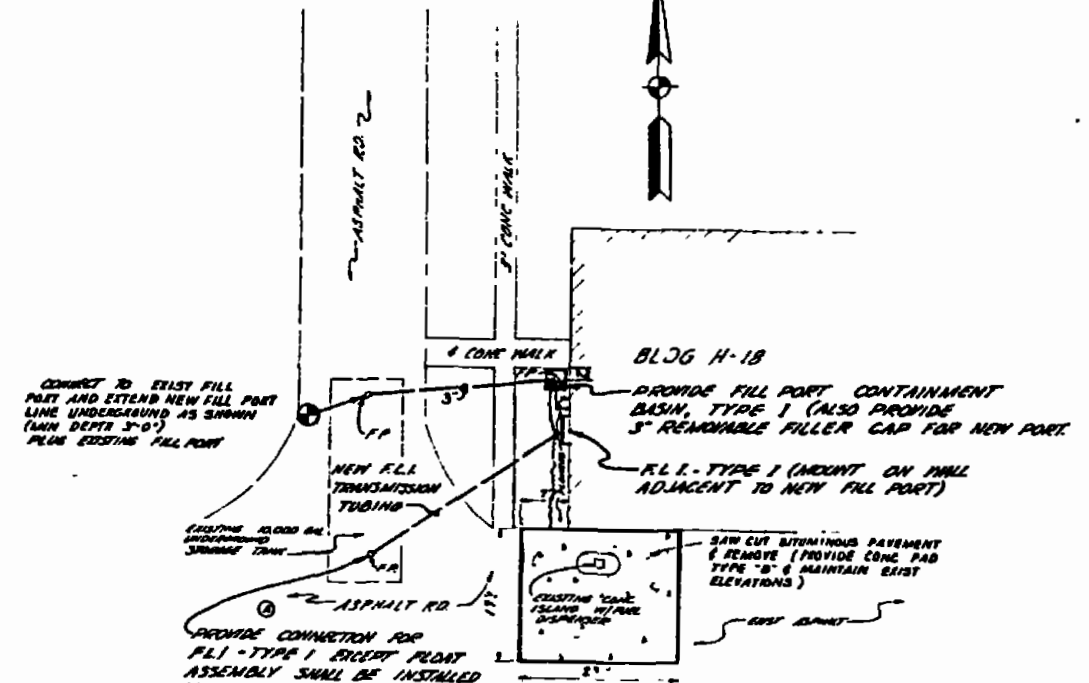


RECORD DRAWING DATE FEB 11 1953		C-38	
AUSTIN BROCKENBROUGH AND ASSOCIATES 1000 W. 10th St. Raleigh, N.C.		ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA	
PROJECT NO. 157501 DRAWING NO. 4052507 DATE 12/12/52 BY J.L.S. CHECKED BY J.L.S. APPROVED BY J.L.S.		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS - SITES X-A & X-B CIVIL	
SHEET NO. 3 OF 4		4052507	
F 80091		CONTRACT NO. 462410 18 B 0268	
SCALE AS SHOWN SPEC 05 70-8168		SHEET 3 OF 4	

SYMBOL	DESCRIPTION	DATE	APPROVED
①	REVISED AS BUILT		N/A

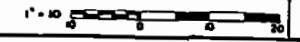


**SITE VI-A
LAYOUT PLAN**
SCALE 1"=10'

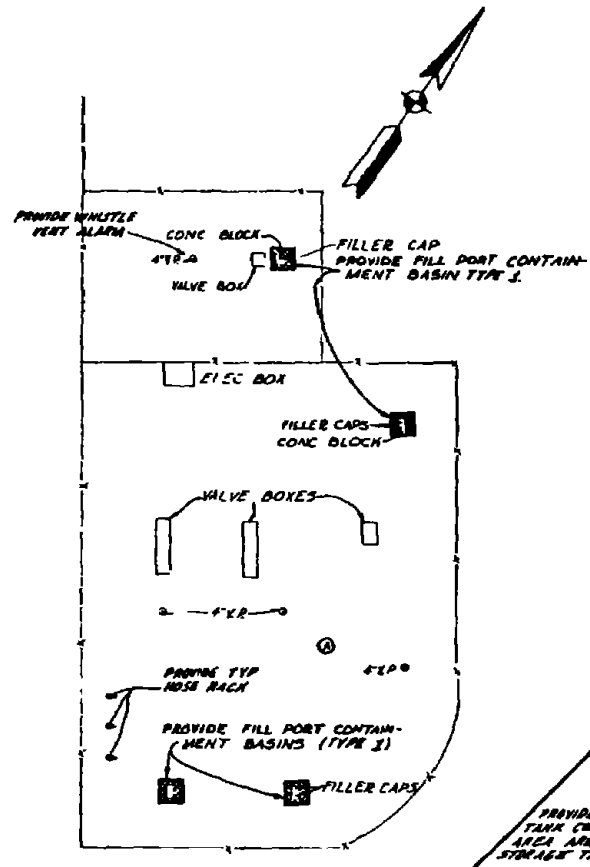


**SITE VI-B
LAYOUT PLAN**
SCALE 1"=10'

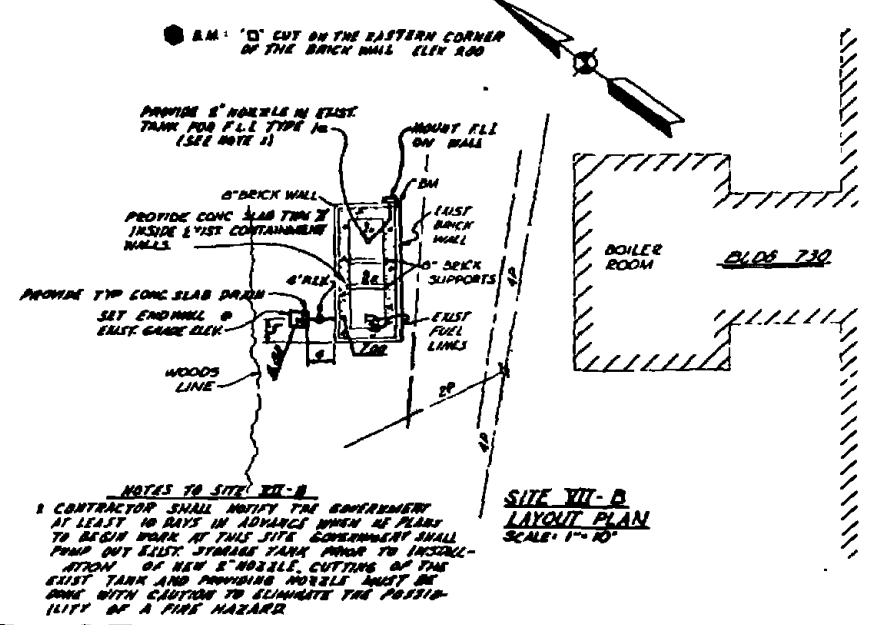
RECORD DRAWING DATE: FEB 11 1953	C-39
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineering Raleigh, N.C.	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION CAMP LEJEUNE, NORTH CAROLINA
DR. DES. DR. FILED CHG. DES. PROJ. NO. 8154 ON DCA	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS-SITE VI-A & VI-B CIVIL
DATE: 12/19/52 BY: [Signature]	NAVY DRAWING NO. 4052503
APPROVED: [Signature]	NAVY CONTRACT NO. N62470 1B 8-8160
SCALE: AS SHOWN	NO. 03-10 224-B SHEET 21 OF 11



SYMBOL	DESCRIPTION	DATE	APPROVED
(2)	REVISED AS BUILT	11/2/79	

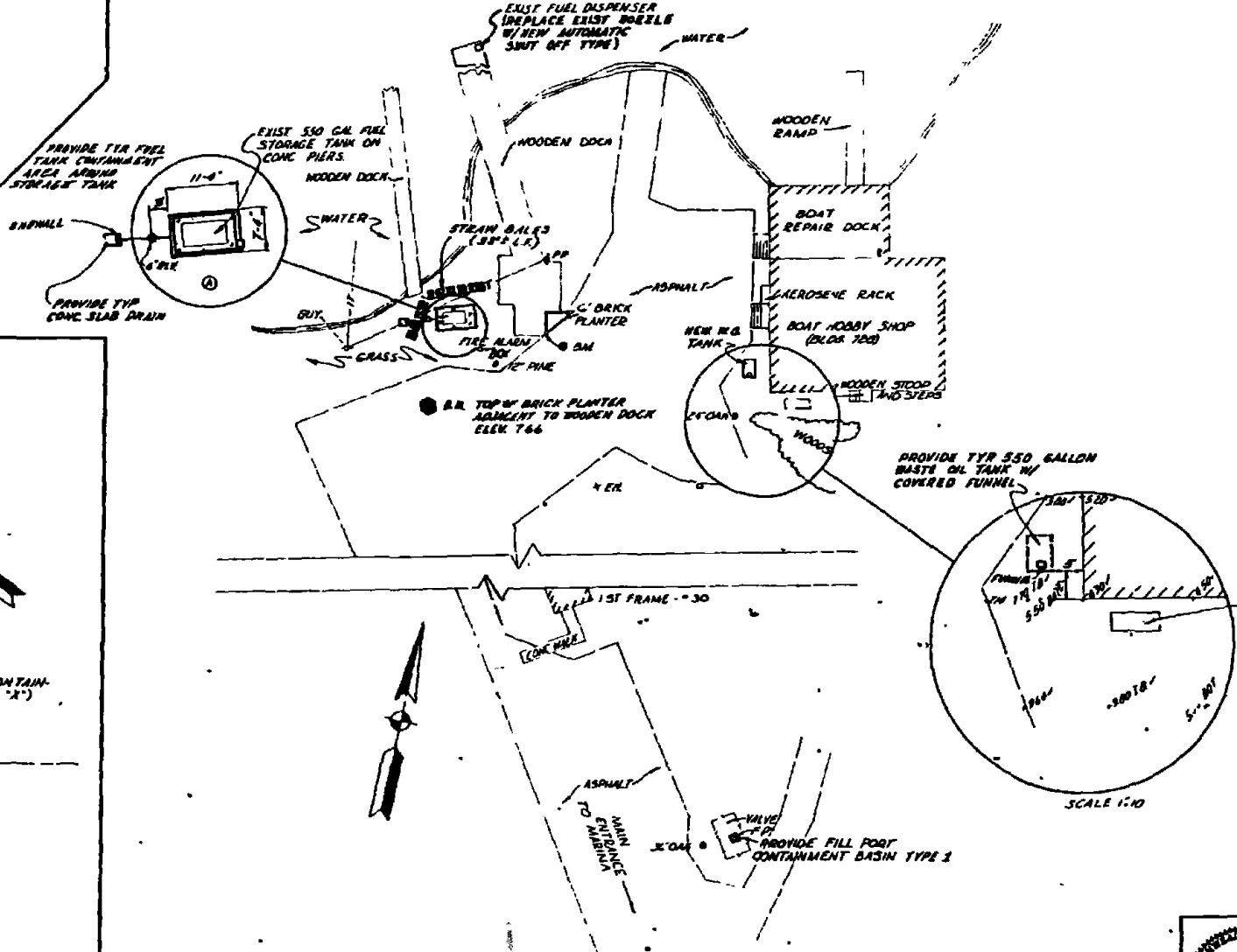


**SITE VII-A(1)
LAYOUT PLAN
SCALE: 1" = 10'**



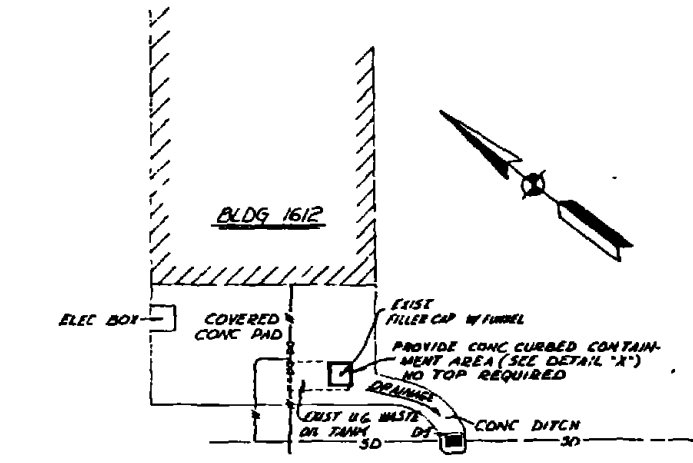
**SITE VII-B
LAYOUT PLAN
SCALE: 1" = 10'**

NOTES TO SITE VII-B
1. CONTRACTOR SHALL NOTIFY THE GOVERNMENT AT LEAST 10 DAYS IN ADVANCE WHEN HE PLANS TO BEGIN WORK AT THIS SITE. GOVERNMENT SHALL PUMP OUT EXIST. FUEL TANK PRIOR TO INSTALLATION OF NEW 8" HOSE. CUTTING OF THE EXIST TANK AND PROVIDING HOSE MUST BE DONE WITH CAUTION TO ELIMINATE THE POSSIBILITY OF A FIRE HAZARD.



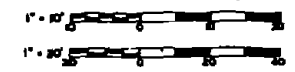
**SITE VII-C
LAYOUT PLAN
SCALE: 1" = 20'**

NOTE: FOR TYPICAL DETAILS OF NEW WASTE OIL TANK SEE SHEET M-18
FOR TYPICAL DETAILS OF COVERED FUNNEL SEE SHEET M-19

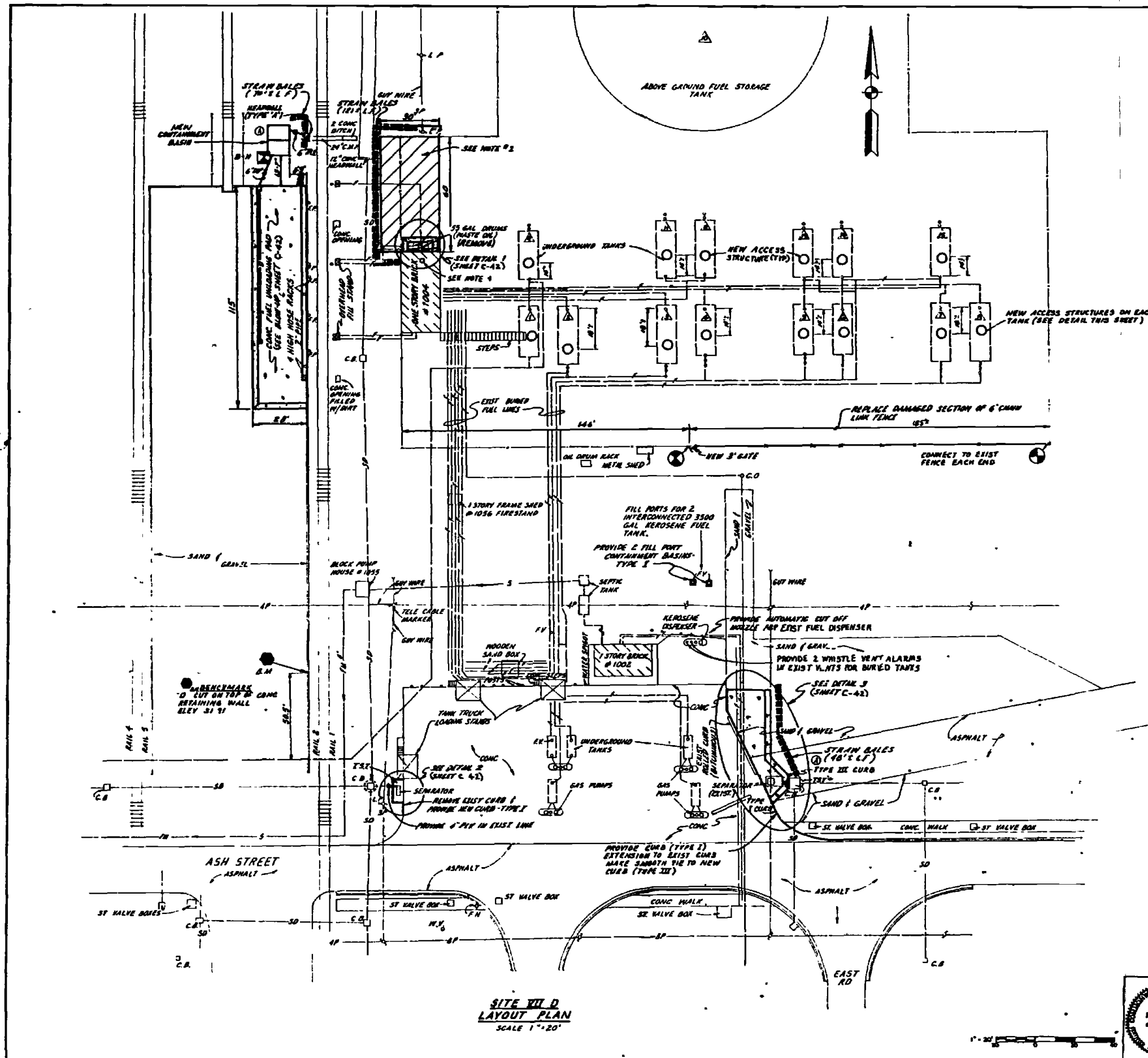


**SITE VII-A(2)
LAYOUT PLAN
SCALE: 1" = 10'**

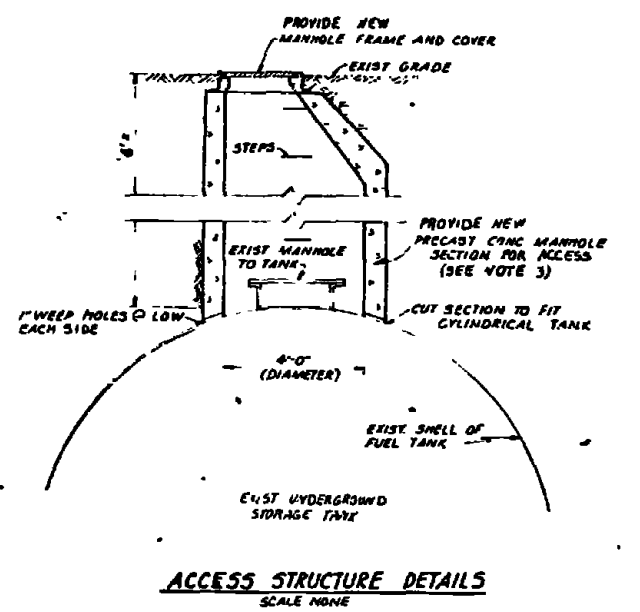
RECORD DRAWING DATE FEB 11 1983	C-40
AUSTIN BROCKENBROUGH AND ASSOCIATES 11/11/79	ATLANTIC DIVISION
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS - SITES VII-A, VII-B & VII-C	CAMP LEAUME NORTH CAROLINA
SCALE 1" = 10'	4057509
DATE 11/11/79	NO. 80091
PROJECT NO. 152579	DATE 05-78 8268



SYMBOL	DESCRIPTION	DATE	APPROVED
(A)	REVISED AS BUILT	11-23	



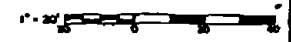
- NOTES**
1. PROVIDE HIGH LEVEL ALARM SYSTEM FOR UNDERGROUND STORAGE TANKS AS SHOWN ON SHEET E-A-2-119 E-18.
 2. CROSS HATCHING INDICATED AREA OF CONTAMINATED SOIL. REMOVE TOP 6\"/>



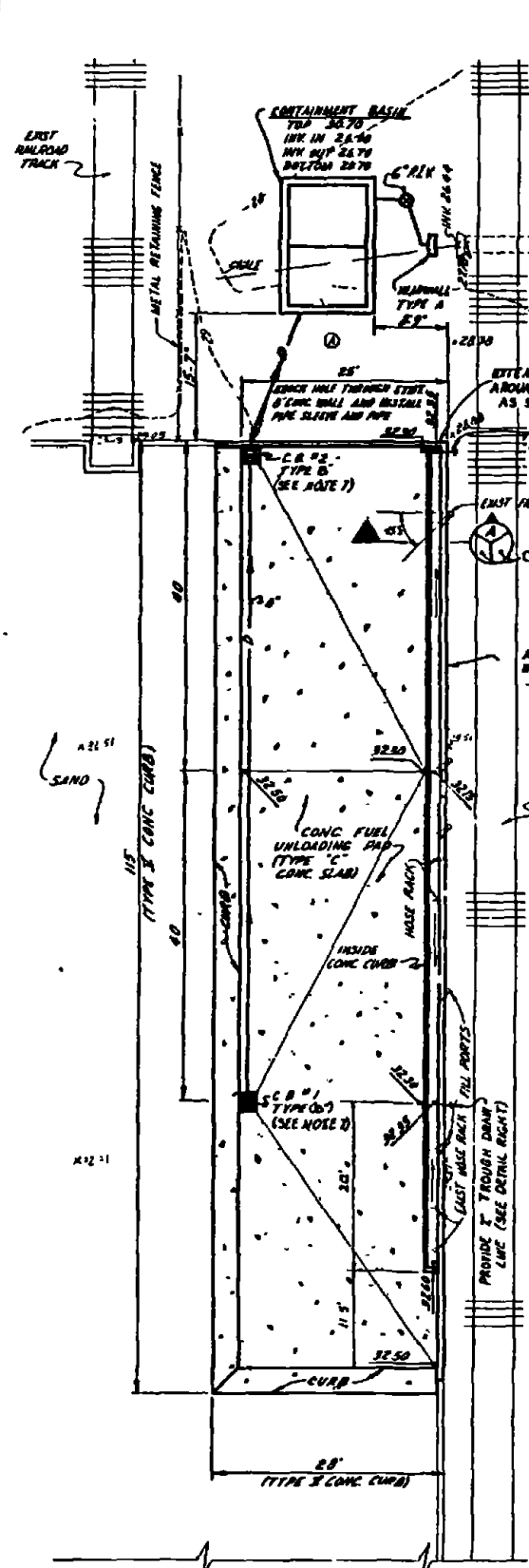
SITE VII D LAYOUT PLAN
SCALE 1"=20'

ACCESS STRUCTURE DETAILS
SCALE NONE

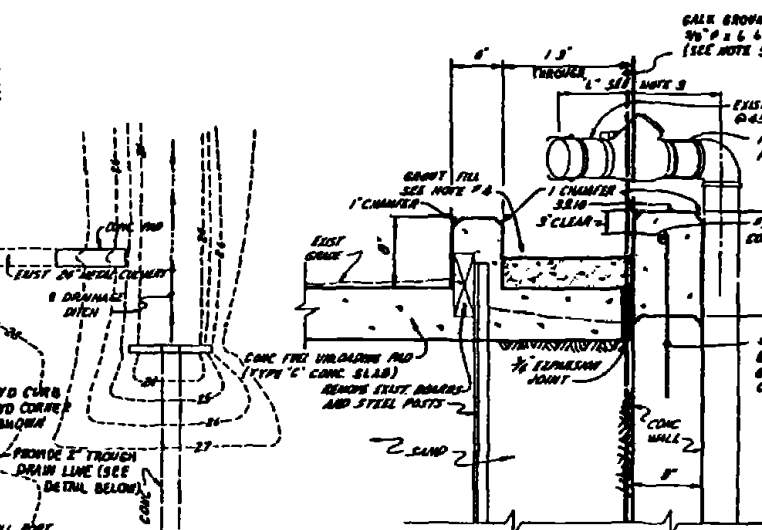
RECORD DRAWING DATE: 11/11/58		C-41	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS ARCHITECTS		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
PROJECT: CAMP LEJEUNE, NORTH CAROLINA		DIVISION: ATLANTIC DIVISION	
DRAWN BY: J. W. G. DATE: 12/15/57		PROJECT NO.: 4052510	
CHECKED BY: [Signature]		SCALE: AS SHOWN	
PROJECT NO.: F 80091		DRAWING NO.: 4052510	
SHEET NO.: 1 OF 1		DATE: 11/23/58	



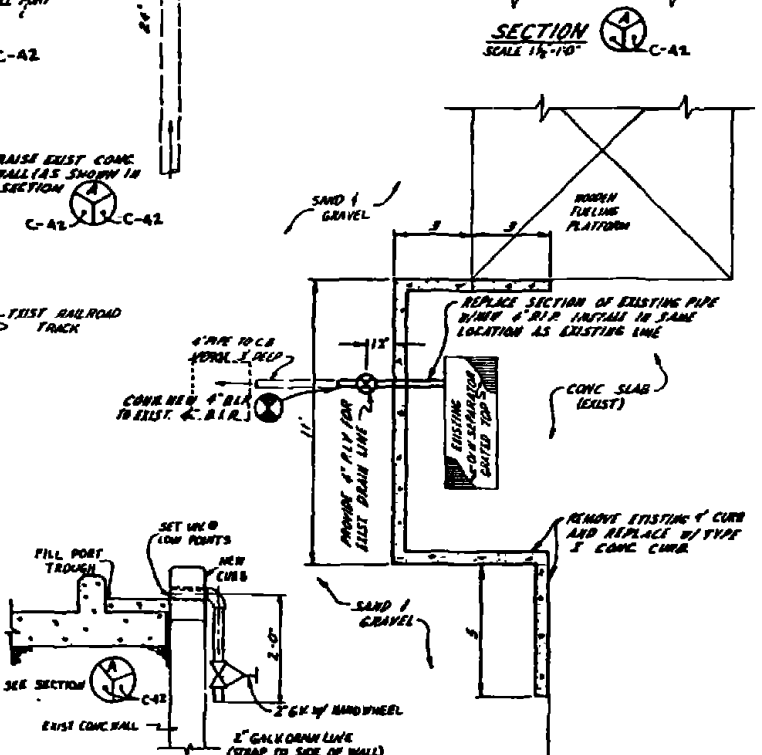
REV	DESCRIPTION	DATE	APPROVED
0	REVISED AS BUILT		



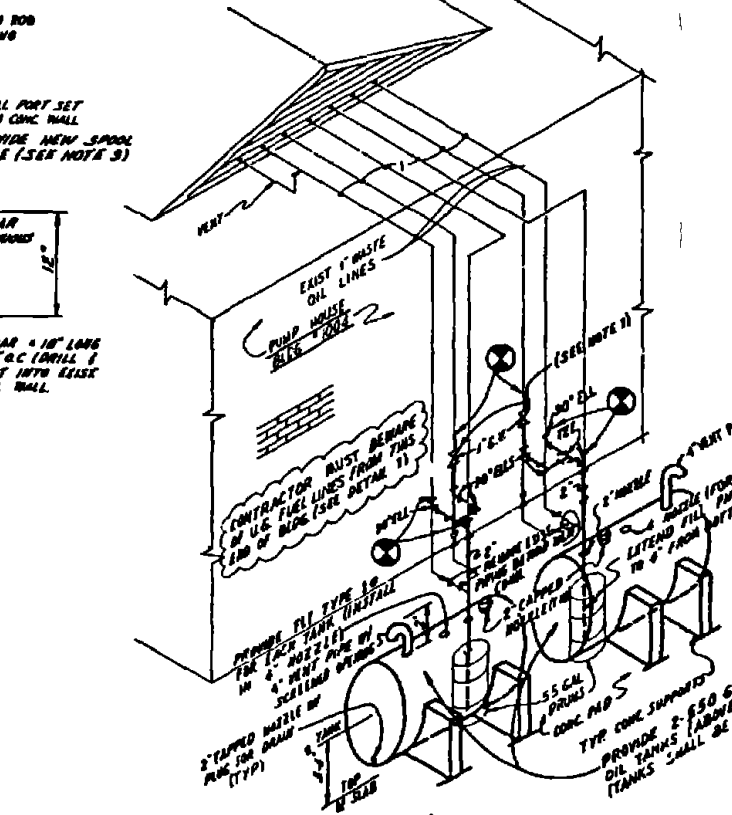
CONCRETE UNLOADING PAD AREA
SCALE 1/4" = 1'-0"



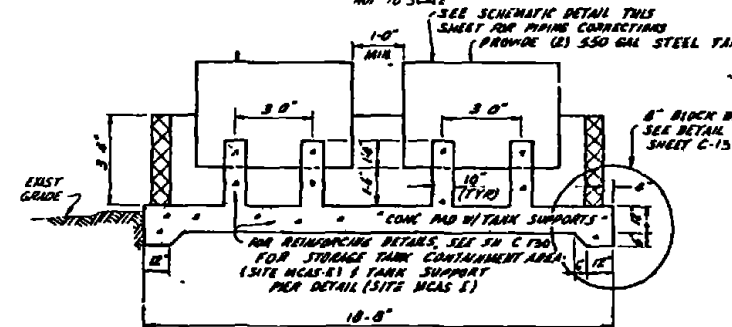
SECTION C-42
SCALE 1/4" = 1'-0"



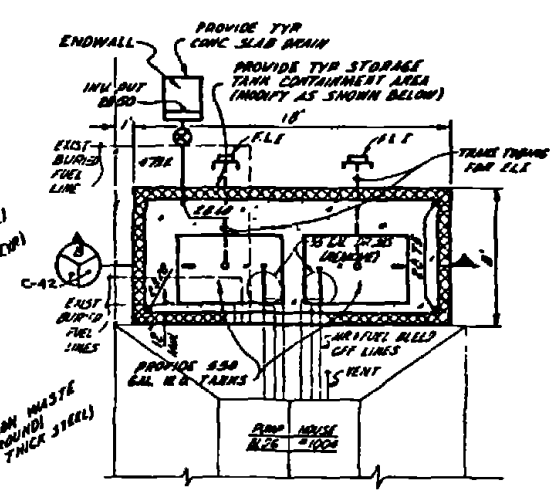
PROFILE - CONCRETE UNLOADING PAD DRAIN
SCALE 1" = 3" (VERTICAL), 1" = 20" (HORIZONTAL)



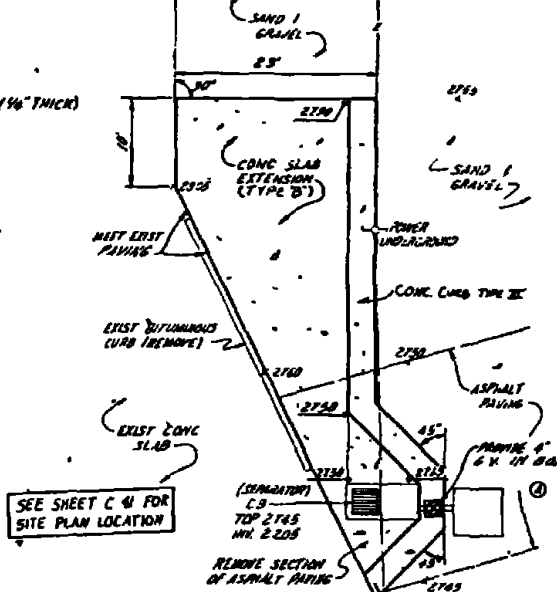
WASTE OIL TANK CONNECTIONS
NOT TO SCALE



SECTION C-42
SCALE 1/4" = 1'-0"

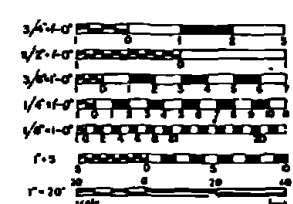


WASTE OIL TANKS - DETAIL 1
SCALE 1/4" = 1'-0"



CONCRETE SLAB ADDITION - DETAIL 3
SCALE 1/4" = 1'-0"

- NOTES:
- CONTRACTOR SHALL CUT EXIST 1" LINES AND CONNECT TO NEW 2" LINES FEEDING THE NEW WASTE OIL TANKS AS SHOWN. EXIST PIPING BEYOND NEW CONNECTION SHALL BE REMOVED. CONTRACTOR SHALL ALSO REMOVE 55 GAL WASTE OIL DRUMS.
 - NEW WASTE OIL TANKS SHALL BE LOCATED INSIDE A NEW FUEL TANK CONTAINMENT AREA.
 - ALL FILL PORTS (S) ADJACENT TO THE NEW FUEL UNLOADING PAD SHALL HAVE NEW SPOOLS INSERTED IN THE PIPING SUCH THAT 1'-20" EXISTING DIMENSION IS MAINTAINED. CONTRACTOR SHALL REUSE EXISTING ADAPTOR AND VALVE.
 - CONCRETE SHALL BE PROVIDED AS SHOWN. SLOPE SHALL BE CONSTANT BETWEEN SPOT GRADES INDICATED.
 - CONTRACTOR SHALL PROVIDE GROUNDING ROD AT EACH FILL PORT LOCATION. ROD SHALL BE SET APPROX 4' INTO GROUND AND LOCATED 1' AWAY FROM FILL PORT.
 - FOR DETAILS OF FUEL LEVEL INDICATOR TYPE 1a SEE SHEET A-17.
 - FOR DETAILS OF TYPE 'B' CB AT THE UNLOADING PAD SEE SHEET C-133.



RECORD DRAWING C-42 FEB 11 1981		C-42	
AUSTIN MOCKENBROUGH AND ASSOCIATES CORPORATION 12704722		ATLANTIC DIVISION	
MARINE CORPS BASE CAMP LEAUE, NORTH CAROLINA		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PLANS, PROFILES & DETAILS - SITE 'III-D'	
F 80091		4052511	
CONTRACT NO. N2247878-B-2268		SHEET 42 OF 117	

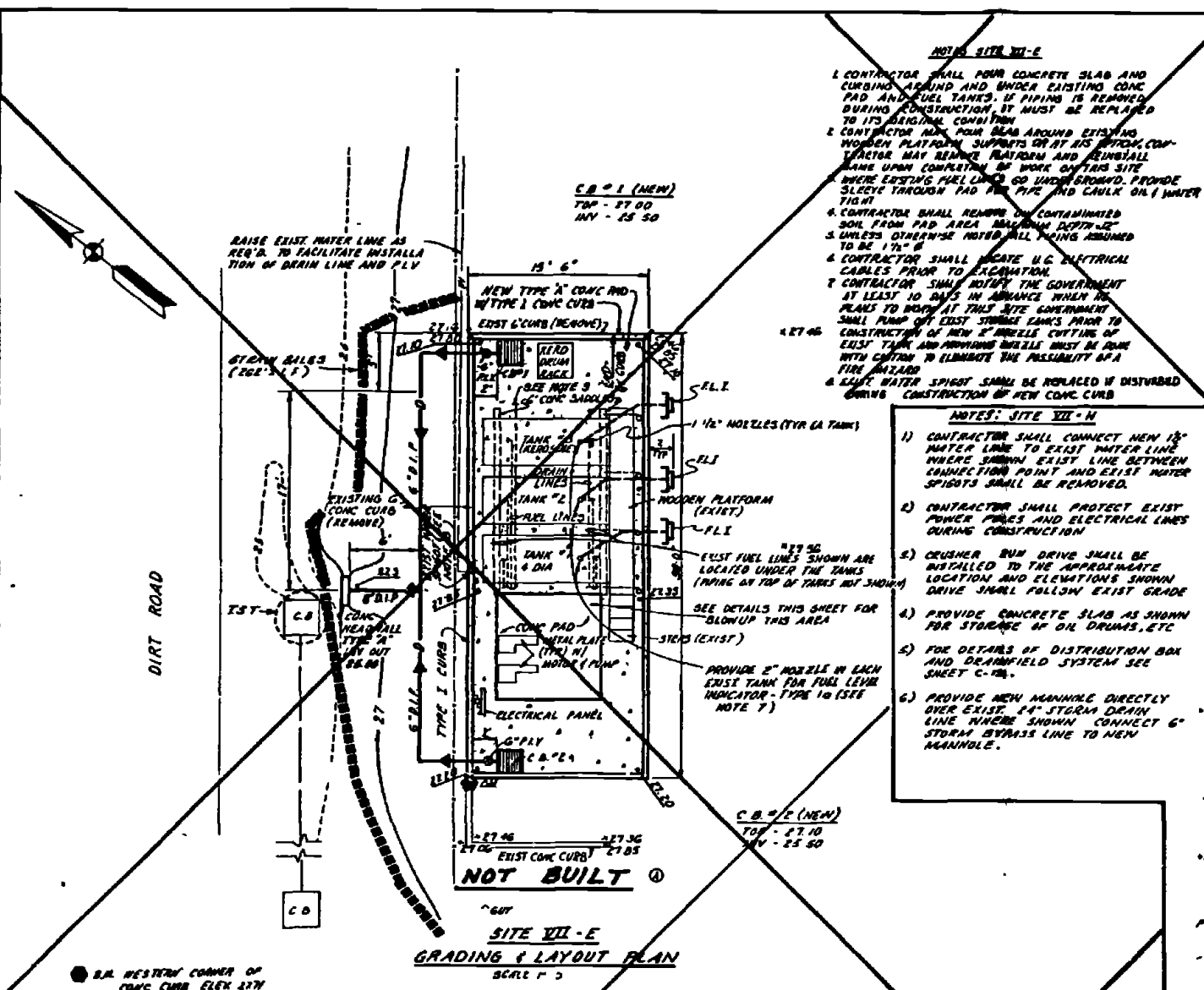
REV	DESCRIPTION	DATE	APPROVED
0	REVISED AS BUILT	4/2/50	

NOTES: SITE VII-E

1. CONTRACTOR SHALL POUR CONCRETE SLAB AND CURBING AROUND AND UNDER EXISTING CONC PAD AND FUEL TANKS. IF PIPING IS REMOVED DURING CONSTRUCTION, IT MUST BE REPLACED TO ITS ORIGINAL CONDITION.
2. CONTRACTOR SHALL POUR SLAB AROUND EXISTING WOODEN PLATFORM SUPPORTS OR AT HIS OPTION, CON-TRACTOR MAY REMOVE PLATFORM AND INSTALL SAME UPON COMPLETION OF WORK ON THIS SITE. WHERE EXISTING FUEL LINES GO UNDERGROUND, PROVIDE SLEEVE THROUGH PAD AND CAULK ON WATER TIGHT.
3. CONTRACTOR SHALL REMOVE ALL CONTAMINATED SOIL FROM PAD AREA TO A MINIMUM DEPTH OF 12" UNLESS OTHERWISE NOTED. ALL PILING ASSUMED TO BE 1 1/2" DIA.
4. CONTRACTOR SHALL LOCATE U.G. ELECTRICAL CABLES PRIOR TO EXCAVATION.
5. CONTRACTOR SHALL NOTIFY THE GOVERNMENT AT LEAST 10 DAYS IN ADVANCE WHEN HE PLANS TO WORK AT THIS SITE. GOVERNMENT SHALL PUMP OUT EXIST STORAGE TANKS PRIOR TO CONSTRUCTION OF NEW 2" SLEEVES CUTTING OF EXIST TANK AND REMOVING SLEEVES MUST BE DONE WITH CARE TO ELIMINATE THE POSSIBILITY OF A FIRE HAZARD.
6. EXIST WATER SPIGOTS SHALL BE REPLACED IF DISTURBED DURING CONSTRUCTION OF NEW CONC CURB.

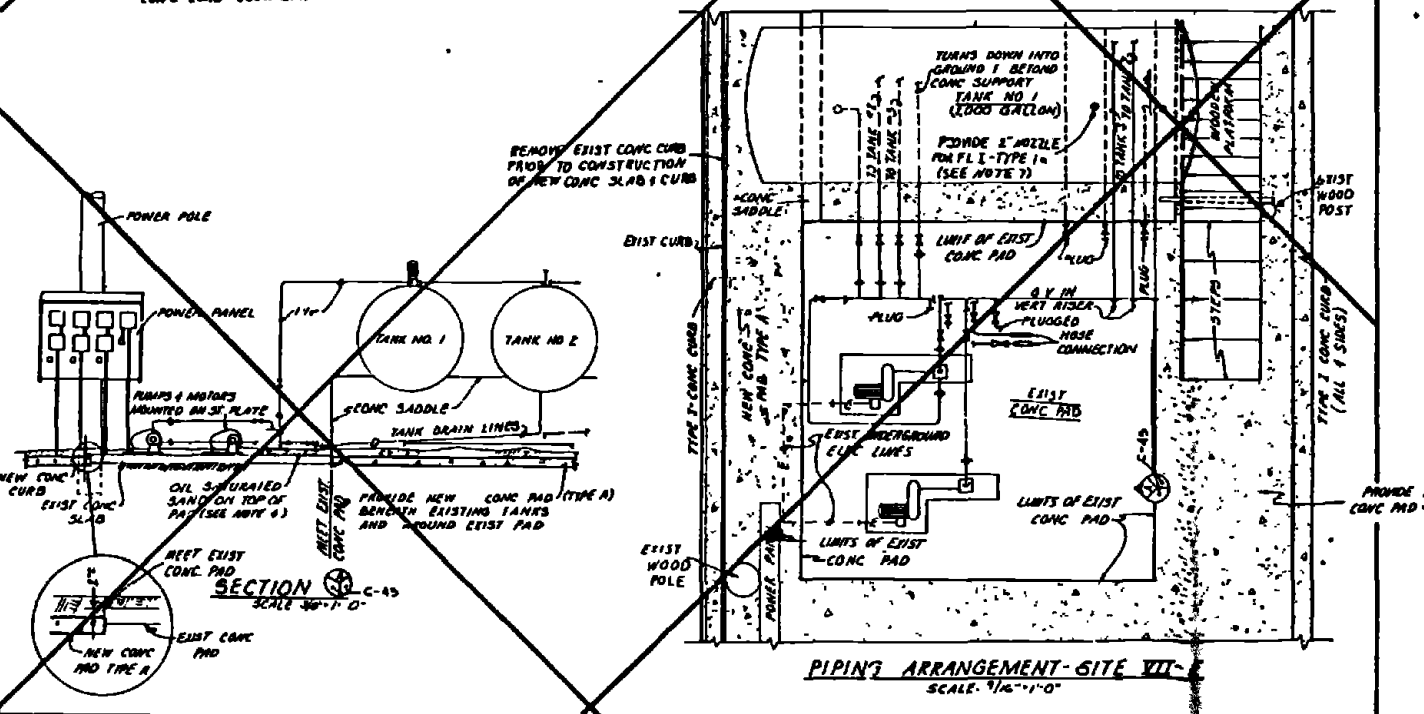
NOTES: SITE VII-H

- 1) CONTRACTOR SHALL CONNECT NEW 1 1/2" WATER LINE TO EXIST WATER LINE WHERE SHOWN. EXIST LINE BETWEEN CONNECTION POINT AND EXIST WATER SPIGOTS SHALL BE REMOVED.
- 2) CONTRACTOR SHALL PROTECT EXIST POWER PIPES AND ELECTRICAL LINES DURING CONSTRUCTION.
- 3) CRUSHER BUM DRIVE SHALL BE INSTALLED TO THE APPROXIMATE LOCATION AND ELEVATIONS SHOWN. DRIVE SHALL FOLLOW EXIST GRADE.
- 4) PROVIDE CONCRETE SLAB AS SHOWN FOR STORAGE OF OIL DRUMS, ETC.
- 5) FOR DETAILS OF DISTRIBUTION BOX AND DRAINFIELD SYSTEM SEE SHEET C-26.
- 6) PROVIDE NEW MANHOLE DIRECTLY OVER EXIST 14" STORM DRAIN LINE. HEDGE SHOWN. CONNECT 6" STORM DRAIN LINE TO NEW MANHOLE.

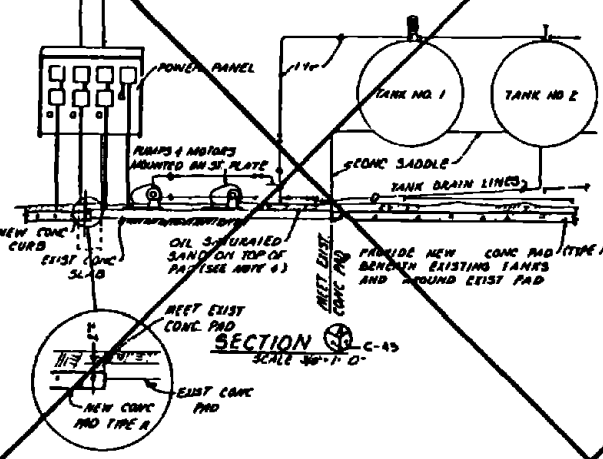


NOT BUILT

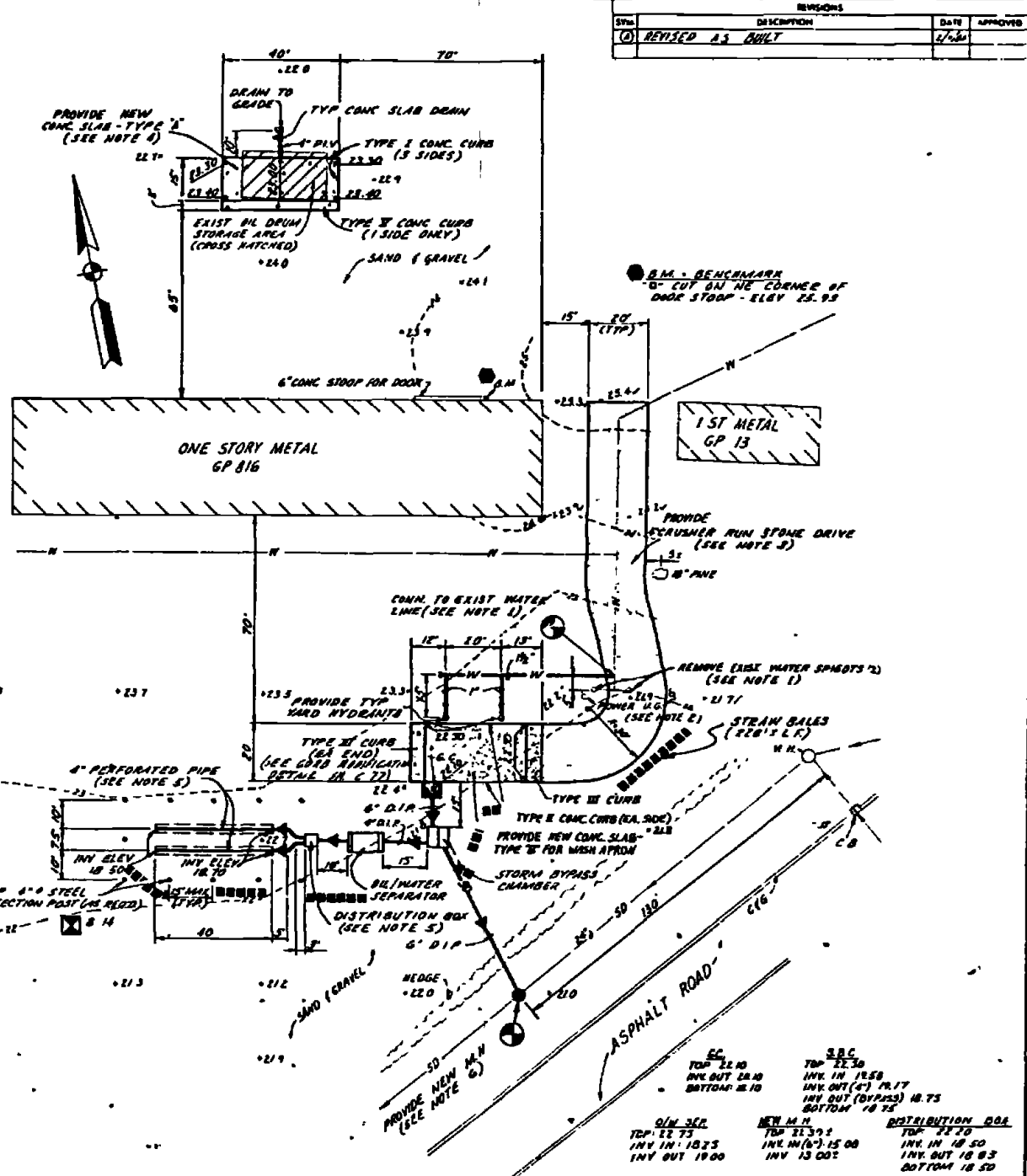
**SITE VII-E
GRADING & LAYOUT PLAN
SCALE: 1" = 20'**



**PIPING ARRANGEMENT-SITE VII-E
SCALE: 1/4" = 1'-0"**

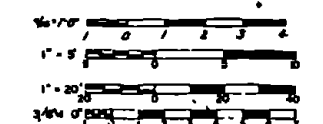


**SECTION C-45
SCALE: 3/4" = 1'-0"**

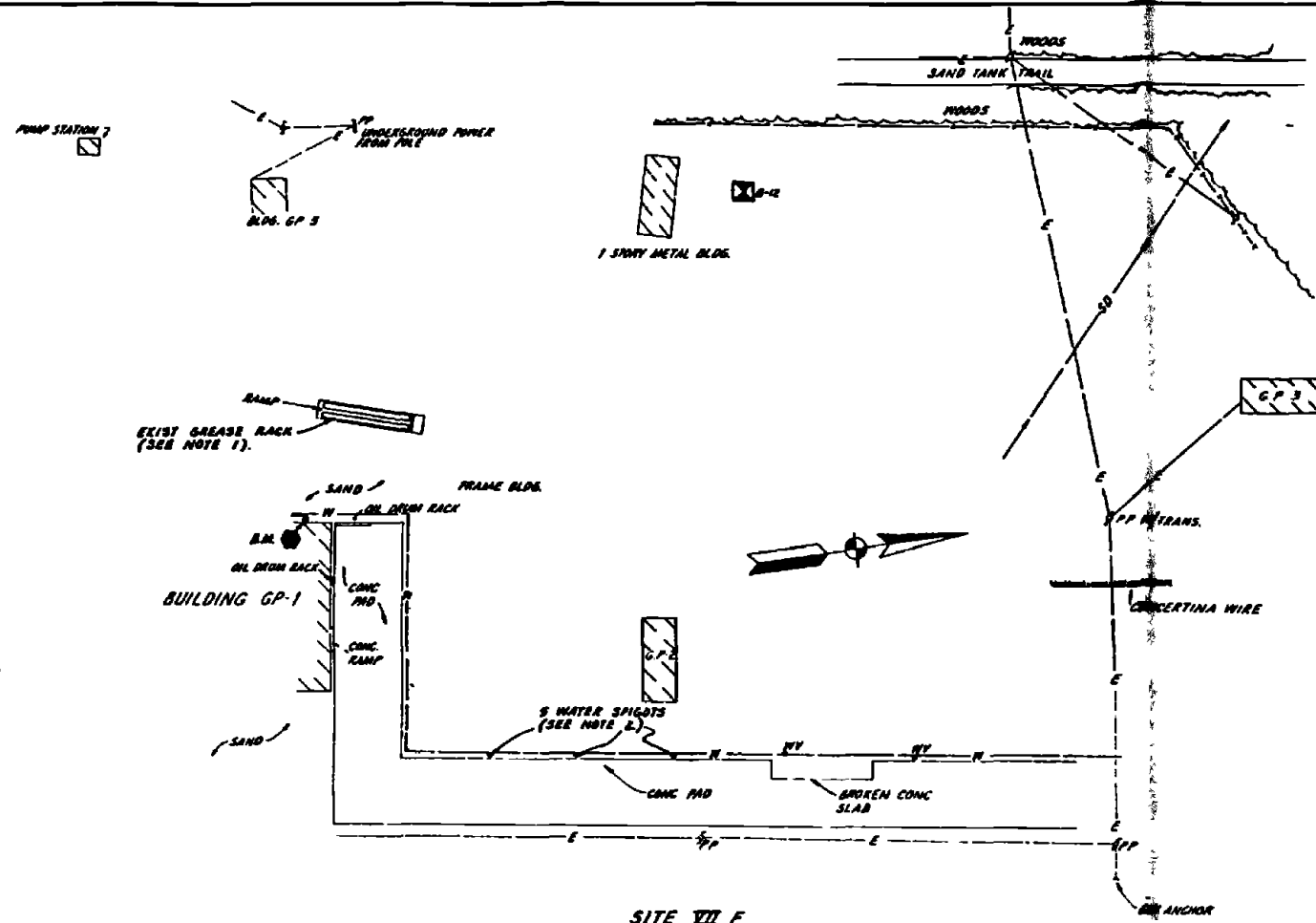


**SITE VII-H
LAYOUT & GRADING PLAN
SCALE: 1" = 20'**

RECORD DRAWING DATE: FEB 11 1951		C-43	
AUSTIN BROOKBROUGH AND ASSOCIATES INCORPORATED 1000 W. 11th St. DALLAS, TEXAS		ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO. 100-105 DRAWN BY: GWA CHECKED BY: J. J. [unclear] DATE: 12/15/50		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS - SITES VII-E & VII-H SCALE: AS NOTED DATE: 05 18 50	
JOB NO. 80091		DRAWING NO. 4052512	
DATE: 12/15/50		SCALE: AS NOTED	



SYMBOL	DESCRIPTION	DATE	APPROVED
ⓐ	REVISED AS BUILT	1/6/71	

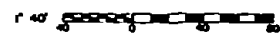


**SITE VII F
LAYOUT PLAN**
SCALE 1" = 40'

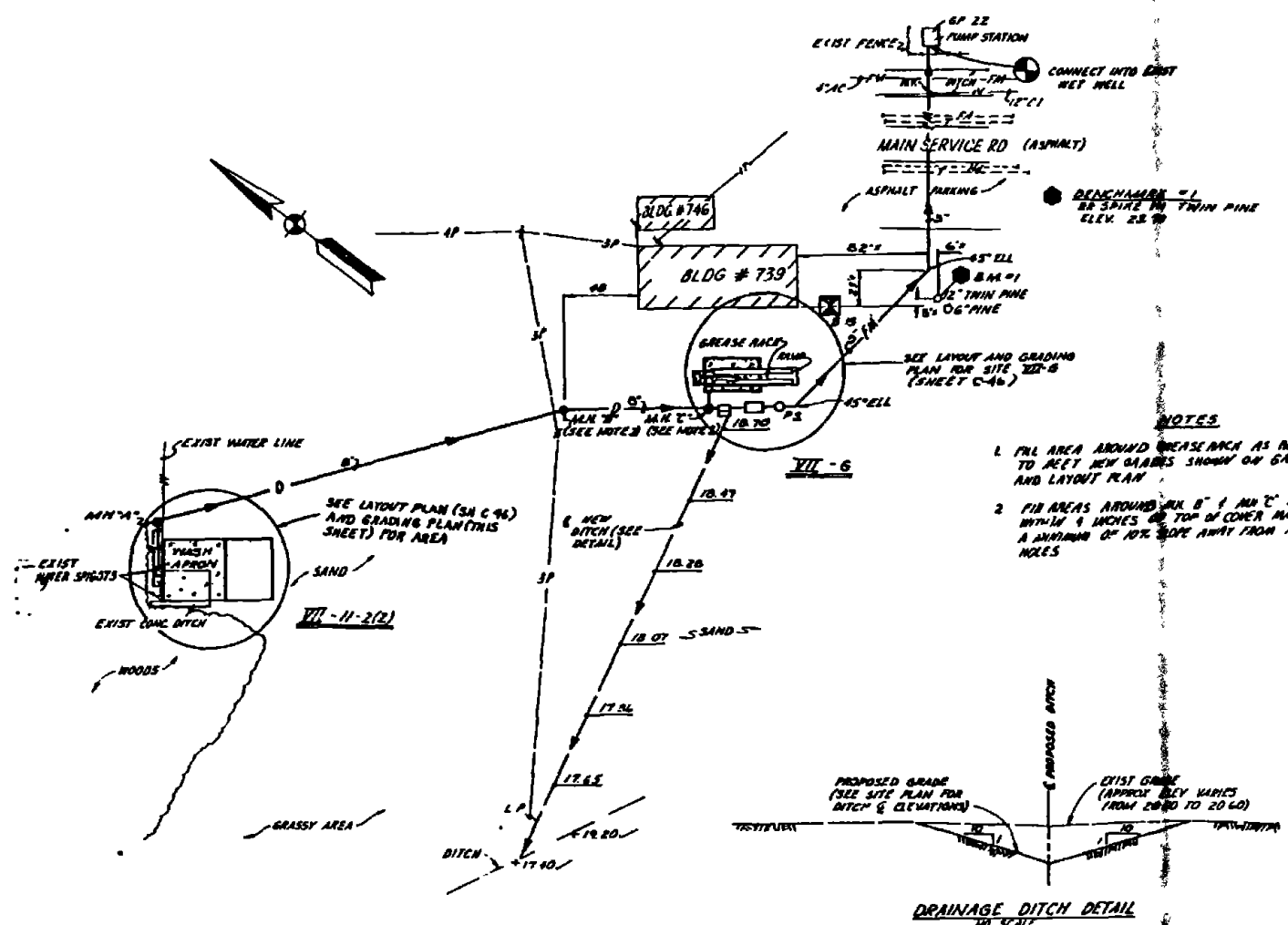
NOTES

1 CONTRACTOR SHALL DISASSEMBLE AND REMOVE EXIST STEEL GREASE RACKS. SEE SH 40-19 FOR TYPICAL GREASE RACK INSTALLATION.
2 CONTRACTOR SHALL REMOVE THE WATER SPIGOTS SERVING THE EXIST WASH AREAS. THE WATER LINES SHALL BE PLUGGED BELOW GROUND.

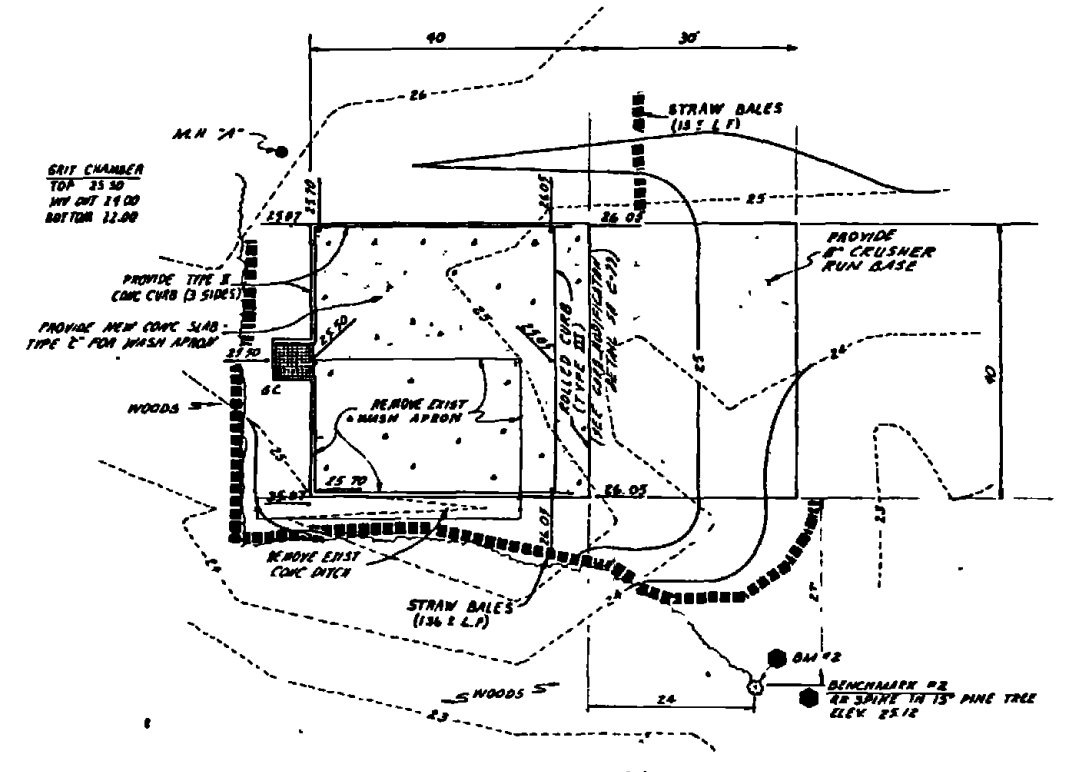
RECORD DRAWING DATE FEB 11 1971		C-44.	
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineers 1102 - 11th St. Wilmington, N.C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA	
PROJECT NO. 4052513 DRAWING NO. 4052513 DATE 12/12/70 BY [Signature] CHECKED BY [Signature]		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN - SITE VII F CIVIL	
SCALE 1" = 40'		DRAWING NO. 4052513	
PROJECT NO. 4052513		CONTRACT NO. N62470 78 S 0253	
SCALE 1" = 40'		SHEET 11 OF 11	



REV	DESCRIPTION	DATE	APPROVED

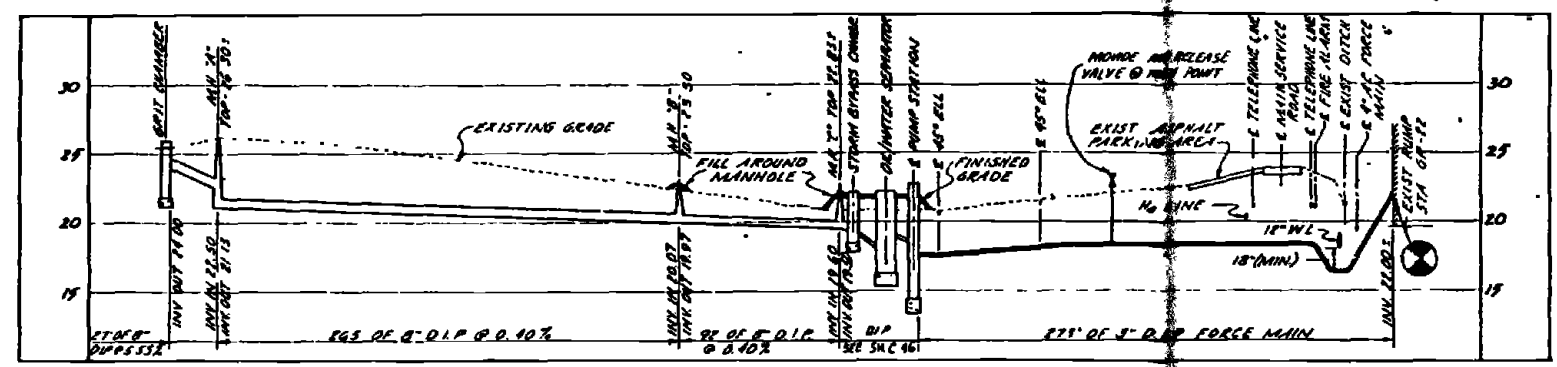


**SITE VII H-2(2) & SITE VII G
LAYOUT PLAN
SCALE 1"=40'**



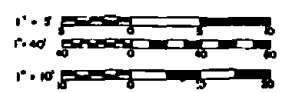
**SITE VII H-2(2)
GRADING PLAN
SCALE 1"=10'**

- NOTES**
1. FILL AREA AROUND GREASE RACK AS REQUIRED TO MEET NEW GRADES SHOWN ON GRADING AND LAYOUT PLAN.
 2. FILL AREAS AROUND MK B' & MK C' TO WITHIN 4 INCHES OF TOP OF COVER MAINTAIN A SLOPE OF 10% AWAY FROM MAN HOLES.

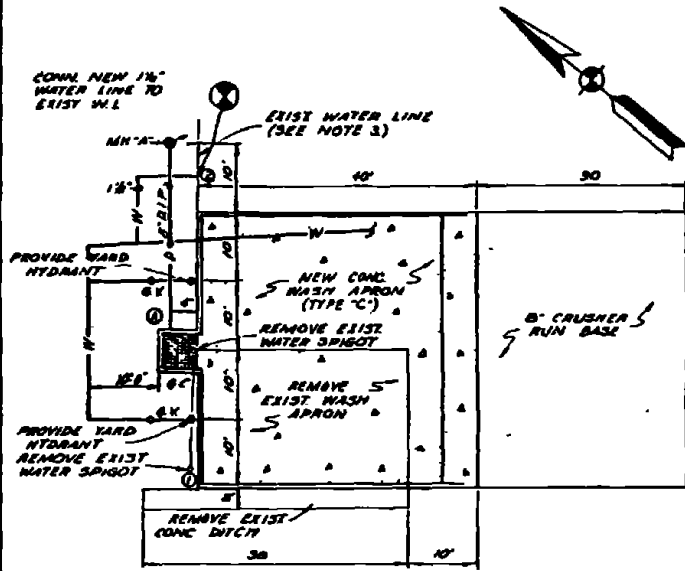


**SITES VII H-2(2) & VII-G
PROFILE - 8" SD LINE & 3" FORCE MAIN
SCALE VERTICAL 1"=5' HORIZONTAL 1"=40'**

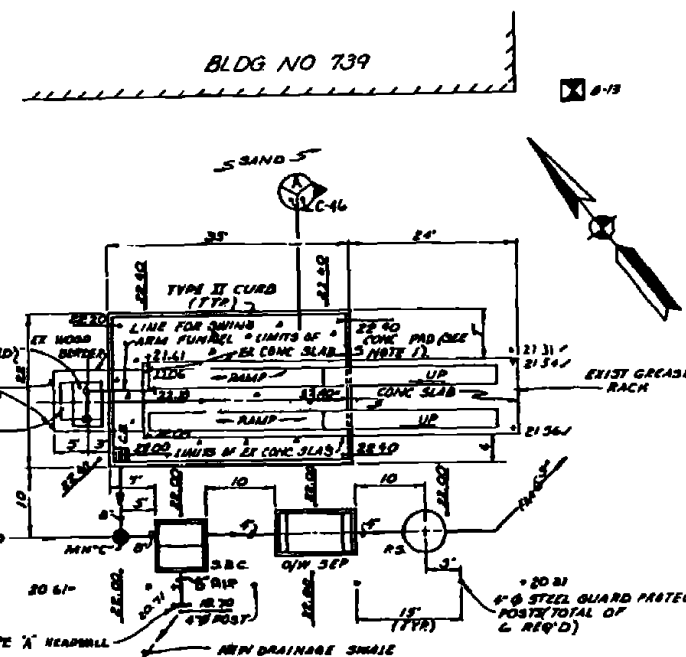
RECORD DRAWING DATE FEB 11 1983		C-45	
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 1111 W. 11th St. DALLAS, TEXAS 75201		ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO. 4052514 DATE 11/19/77 SCALE AS NOTED		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILE - SITES VII-G & VII-H-2(2) CIVIL	
DRAWN BY: [Signature] CHECKED BY: [Signature]		JOB NO. 4052514 CONTRACT NO. A6E410-18-B-816B	
SCALE AS NOTED		SHEET 2 OF 11	



SYMBOL	DESCRIPTION	DATE	APPROVED
①	REVISED AS BUILT	11/27/77	

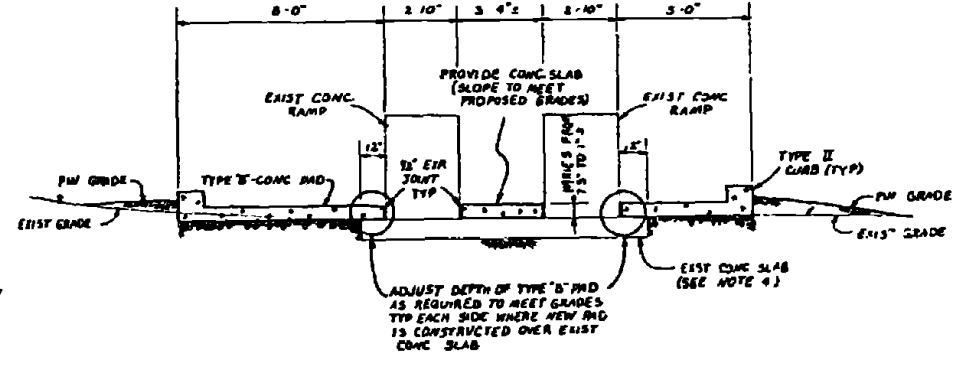


SITE VII-H-2 (2)
LAYOUT PLAN
SCALE 1"=10'



ITEM	TOP	INV. IN	INV. OUT	BOTTOM
CATCH BASIN	22.00	19.35		
STORM WATER BYPASS CHAMBER	23.30	19.30	19.97	18.55
OIL SEPARATOR	23.30	19.05	18.00	
PUMP STATION	22.75	18.50		

SITE VII-G
GRADING & LAYOUT PLAN
SCALE 1"=10'

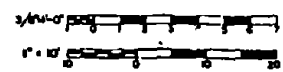


SECTION C-46
SCALE 1/2"=1'-0"

NOTES

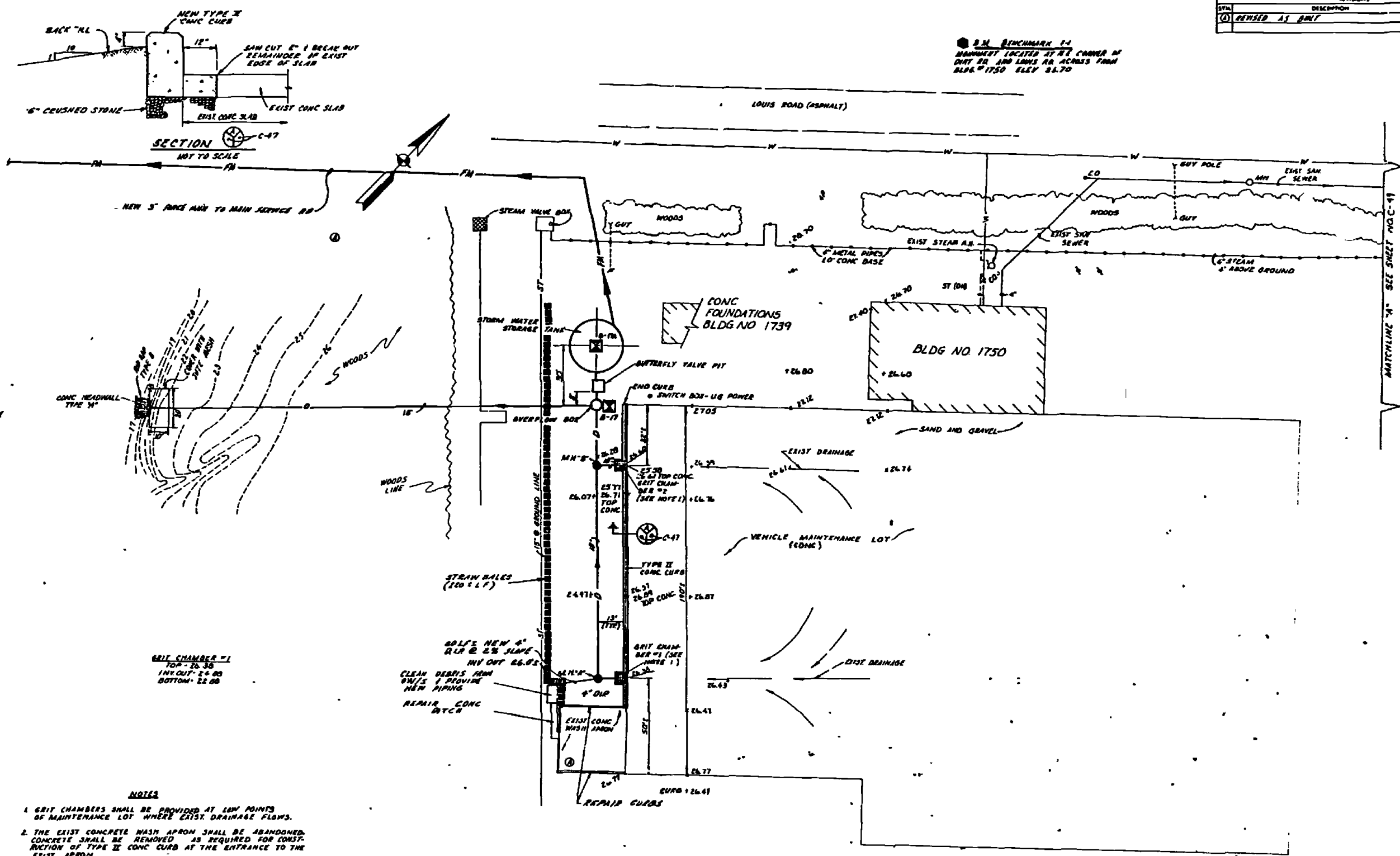
1. CONTRACTOR SHALL PROVIDE NEW CONC PAD - TYPE 'B' AROUND EXIST GREASE RACK AS SHOWN
2. CONTRACTOR SHALL REMOVE EXIST 400 GAL WASTE OIL TANK (PARTIALLY BURIED) AND SURROUNDING 6" WOODEN BORDER
3. THE EXIST WATER SPIGOTS SERVING THE EXIST WASH APRON @ SITE VII-H (2) SHALL BE REMOVED ALSO THE EXIST WATER LINE SHALL BE REMOVED BETWEEN PYS ① AND ②
4. ETCH THE SURFACE OF THE EXISTING CONCRETE SLAB BENEATH THE GREASE RACK WITH A MURIATIC ACID SOLUTION WASH TO REMOVE OILS AND GREASES, & PROVIDE A BONDING SURFACE FOR NEW CONCRETE PAD

RECORD DRAWING DATE FEB 11 1978	C-46
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS ARCHITECTS PLANNERS	DEPARTMENT OF THE NAVY ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DESIGNER: G.W. JILL CHECKED: G.W. JILL PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES LAYOUT & GRADING PLANS SITES VII-G & VII-H (2)	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES LAYOUT & GRADING PLANS SITES VII-G & VII-H (2)
DATE: 11/27/77 SCALE: AS SHOWN	NAVY DRAWING NO. 4052515
PROJECT NO. F 80091	CONTRACT NO. N62470-75-D-8163
SCALE AS SHOWN	ENCLOSURE NO. 03 TO 8163



SYMBOL	DESCRIPTION	DATE	APPROVED
(1)	REVISED AS SHOWN	12/68	

2 M BENCHMARK 14
 MARKSET LOCATED AT RE CORNER OF
 DIRT RD AND LOUIS RD ACROSS FROM
 BLDG #1750 ELEV 26.70

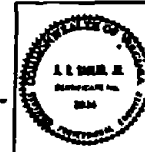


GRIT CHAMBER #1
 TOP - 26.30
 INT. OUT - 26.00
 BOTTOM - 25.60

NOTES

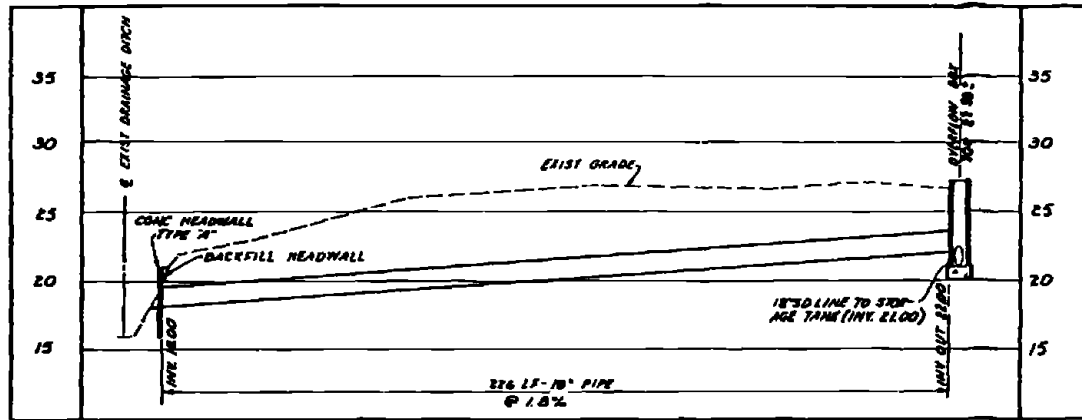
1. GRIT CHAMBERS SHALL BE PROVIDED AT LOW POINTS OF MAINTENANCE LOT WHERE EXIST. DRAINAGE FLOWS.
2. THE EXIST. CONCRETE WASH APRON SHALL BE ABANDONED. CONCRETE SHALL BE REMOVED AS REQUIRED FOR CONSTRUCTION OF TYPE II CONC CURB AT THE ENTRANCE TO THE EXIST. APRON.
3. FOR DETAILS OF STORM WATER STORAGE TANK SEE SHEETS M-1915-6.
4. FOR DETAILS OF OVERFLOW BOX SEE SHEETS M-1415-8.
5. FOR DETAILS OF BUTTERFLY VALVE PIT SEE SHEETS M-1415-9.
6. FOR PROFILES OF NEW DRAW LN., OVERFLOW LINE AND FORCE MAIN SEE SH C 48

**SITE VII-M
 GRADING LAYOUT PLAN
 SCALE 1"=20'**



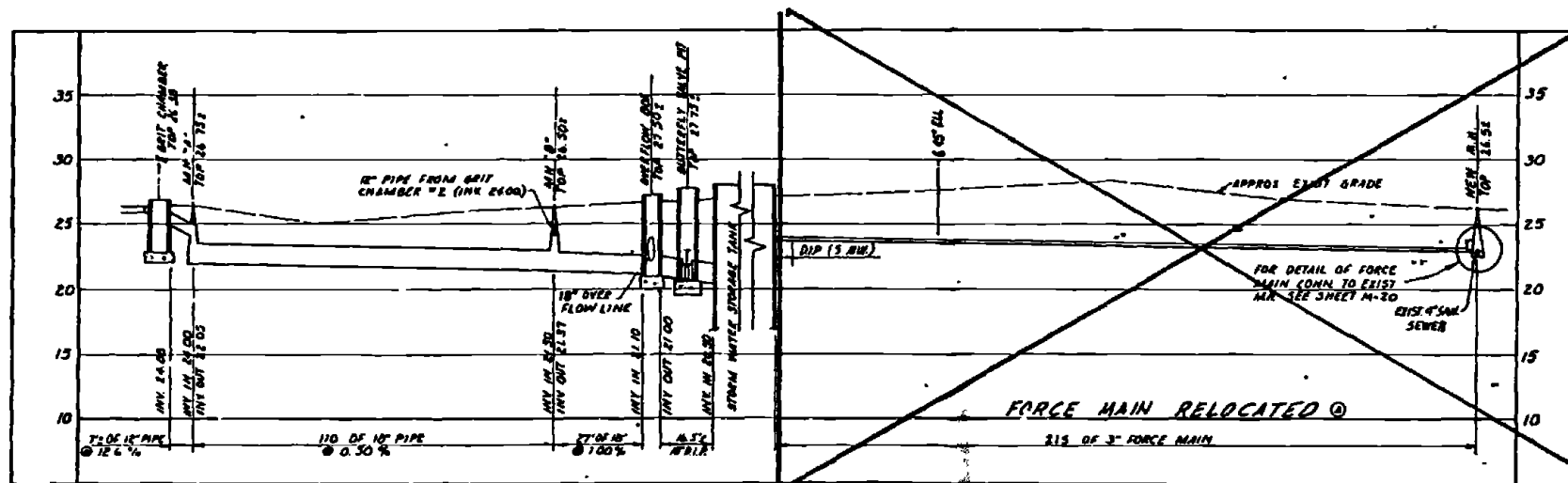
RECORDS DRAWING FEB 11 1971	C-47
AUSTIN BROCKEBROUGH ENGINEER 1111 W. 11th St. WELLSVILLE, N.C.	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DATE: 12/13/70 DRAWN BY: [Signature] CHECKED BY: [Signature]	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN - SITE VII-M CIVIL
PROJECT NO. 80091	NAVY DRAWING NO. 4052516
SCALE: AS SHOWN	CORNER POINT NO. N634RD T8 & B168 SHEET 17 OF 112

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
0	REVISED AS BUILT	2/2/61	



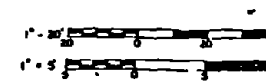
PROFILE-24" OVERFLOW LINE (SITE XII-M)
SCALE VERTICAL 1"=3' HORIZONTAL 1"=20'

FOR PLANS SEE SH C-47



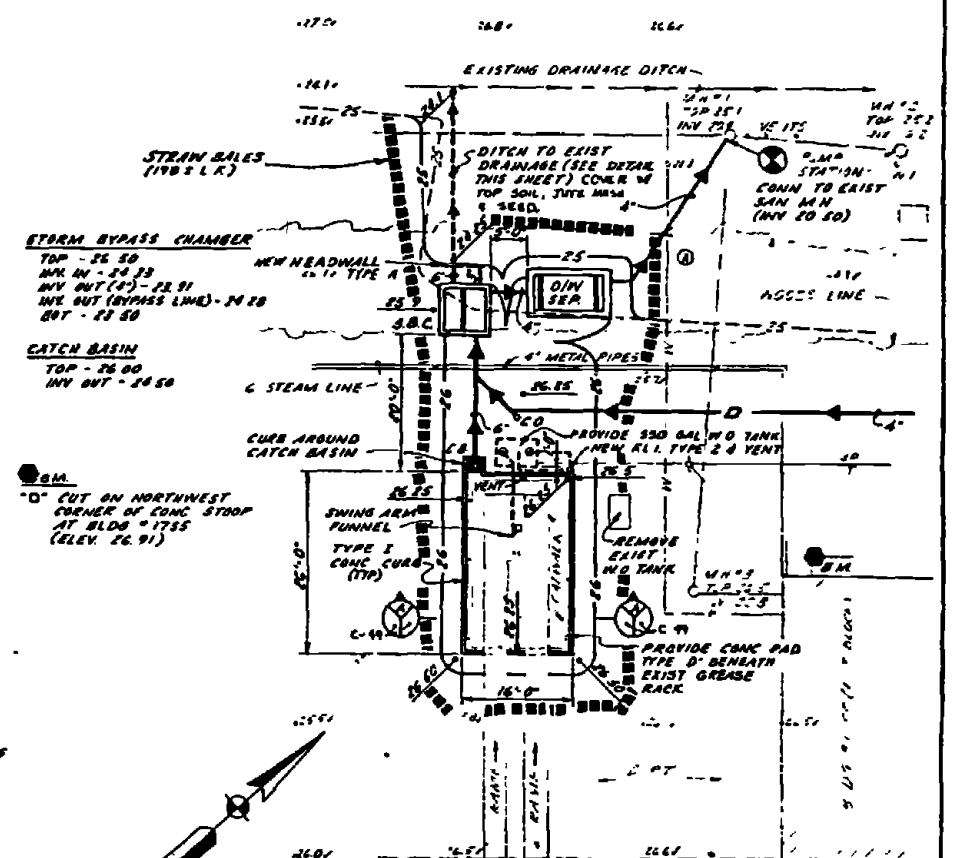
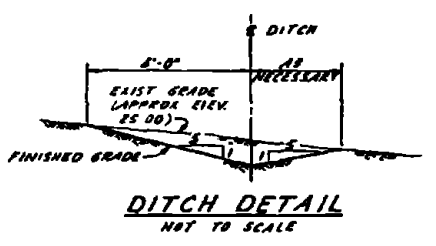
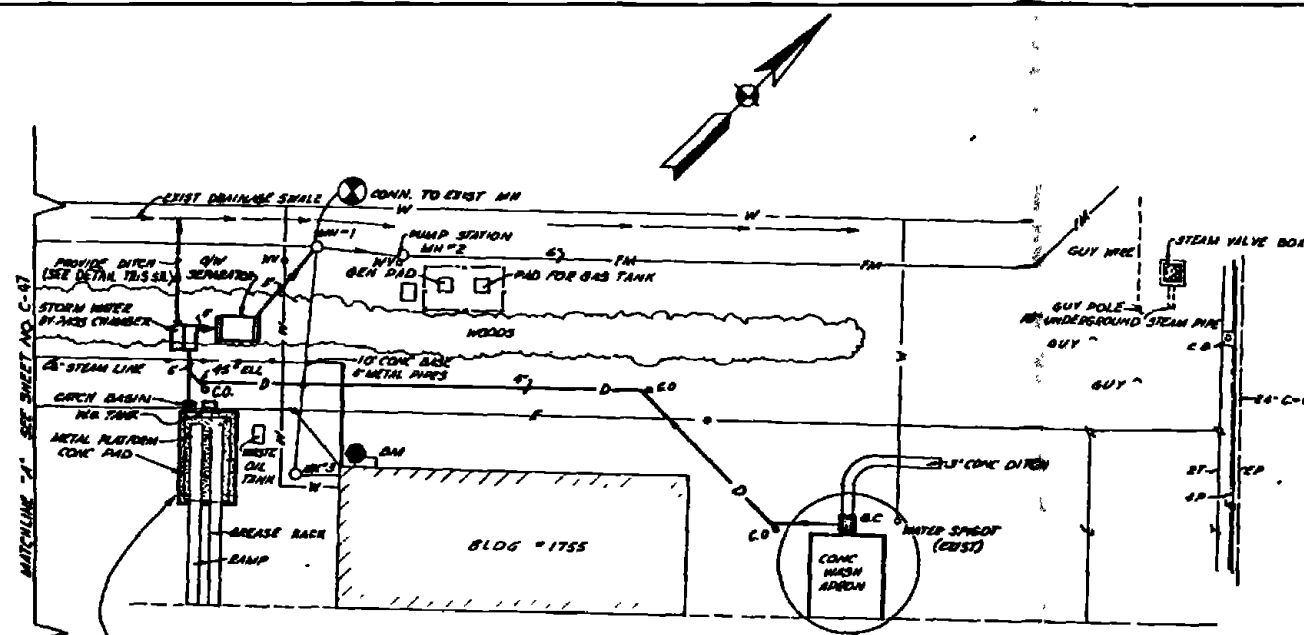
PROFILE-18" STORM DRAIN & FORCE MAIN (SITE XII-M)
SCALE VERTICAL 1"=3' HORIZONTAL 1"=20'

PROJECT DRAWING DATE: FEB 1 1961		C-48	
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil and Mechanical Engineers		DEPARTMENT OF THE NAVY ATLANTIC DIVISION MARINE STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DRAWN BY: G.W.J. / C.K. A.B.S. CHECKED BY: G.W.J. / C.K. A.B.S. DATE: 1/11/61		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PROFILES-SITE XII-M CIVIL	
PROJECT NO. 4052517		DRAWING NO. 4052517	
SHEET NO. 1 OF 1		CONTRACT NO. N62470-78-B-8268	
SCALE AS NOTED: SHC 05-78-8268		DATE: 1/11/61	

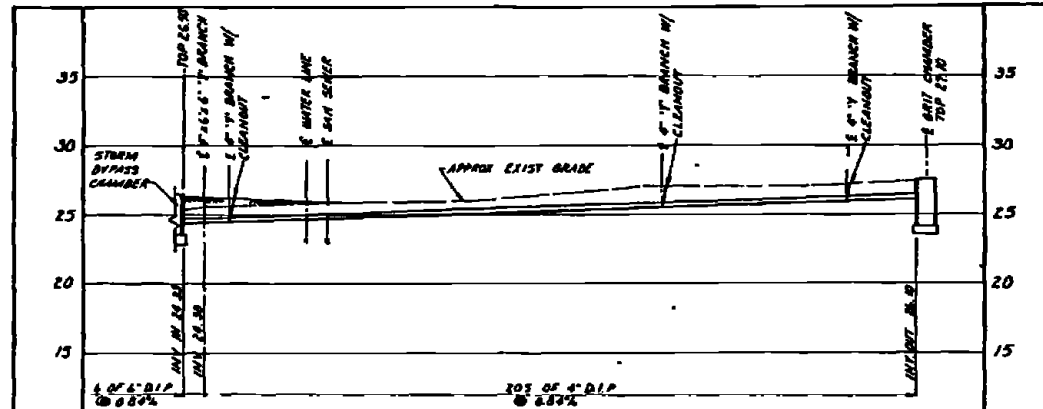
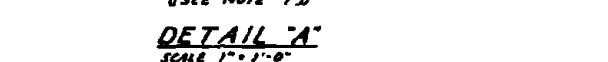
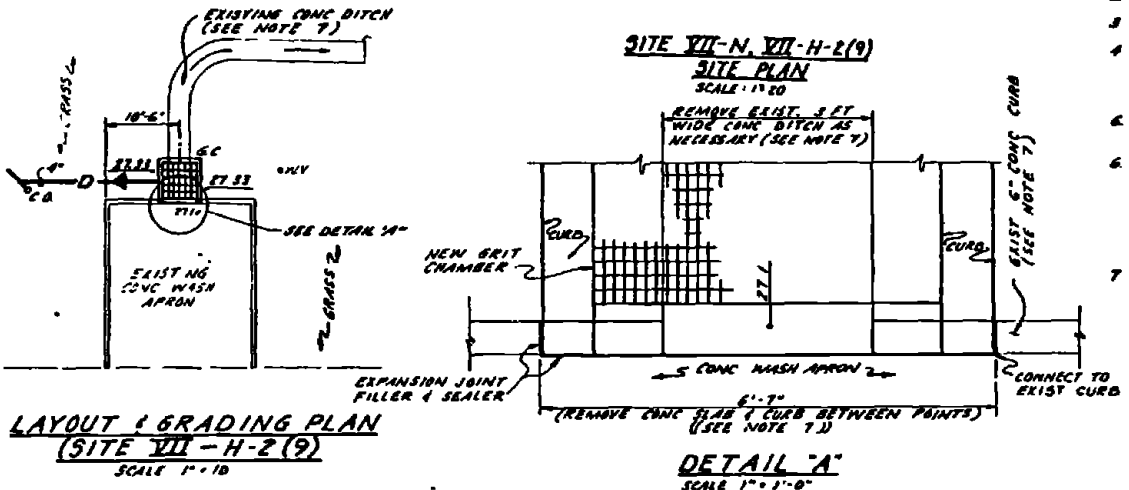


REV. DWG NO. 152511

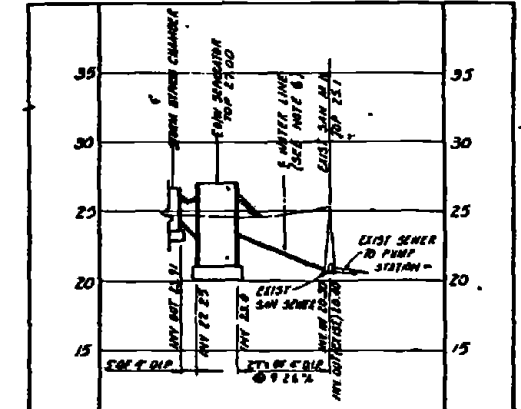
SYMBOL	DESCRIPTION	DATE	APPROVED
(A)	REVISED AS SHOWN	11/13/72	[Signature]



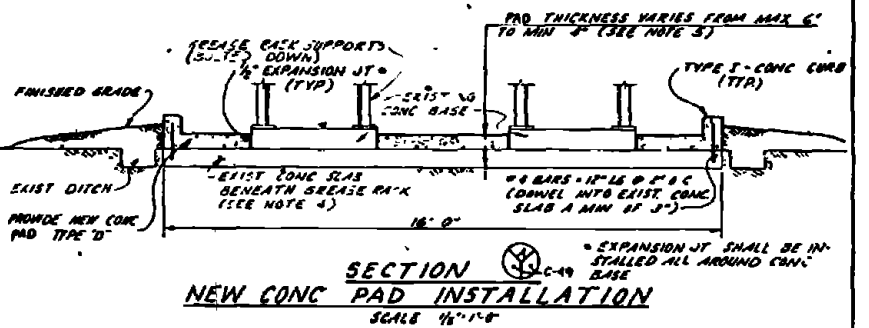
- NOTES**
- FOR DETAILS OF STORM BYPASS CHAMBER & O/W SEPARATOR SEE SHEET M-10 9-2-4.
 - FOR DETAIL OF WASTE OIL TANK SEE SHEET M-16.
 - FOR DETAIL OF SWING ARM FUNNEL SEE SHEET M-10.
 - ETCH THE SURFACE OF THE EXISTING CONCRETE SLAB BENEATH THE GREASE RACK WITH A MURIATIC ACID SOLUTION WASH TO REMOVE OILS & GREASES, & TO PROVIDE A BONDING SURFACE.
 - NEW CONCRETE PAD - TYPE D SHALL BE SLOPED A MIN. OF 1% TO PROVIDE POSITIVE DRAINAGE TO CATCH BASIN.
 - CONTRACTOR SHALL VERIFY DEPTH OF WATER LINE PRIOR TO CONSTRUCTION OF 4\"/>



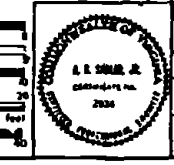
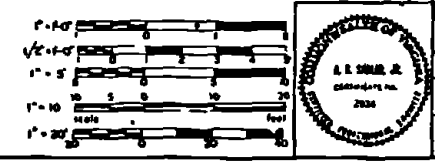
PROFILE 4\"/>



PROFILE 4\"/>

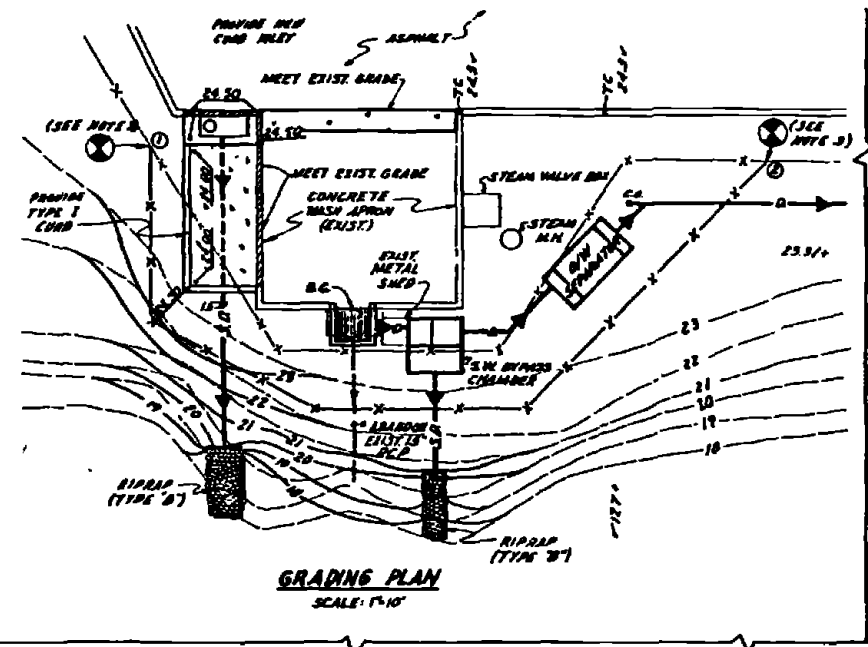


RECORD NUMBER	C-49
DATE	
AUSTIN BROCKENBROUGH AND ASSOCIATES	ATLANTIC DIVISION
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION	HORRUM VICTORIA
MARINE CORPS BASE	CAMP LEJEUNE, NORTH CAROLINA
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	
SITE PLAN, PROFILES & DETAILS	
SITES VII-N & VII-H-2(9)	
PROJECT NUMBER	4052519
CONTRACT NUMBER	MC 42470-TB 8 8268
DATE	11/13/72
SCALE	1\"/>

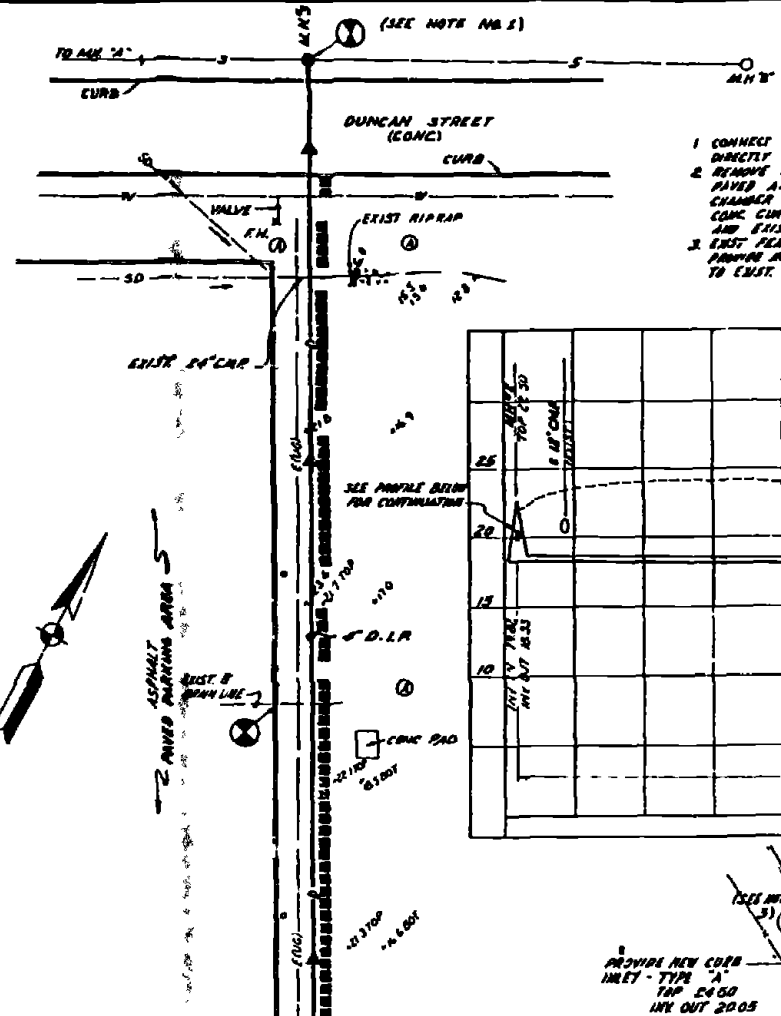


REVISION	DESCRIPTION	DATE	APPROVED
(2)	REVISED AS SHOWN	1/11/77	

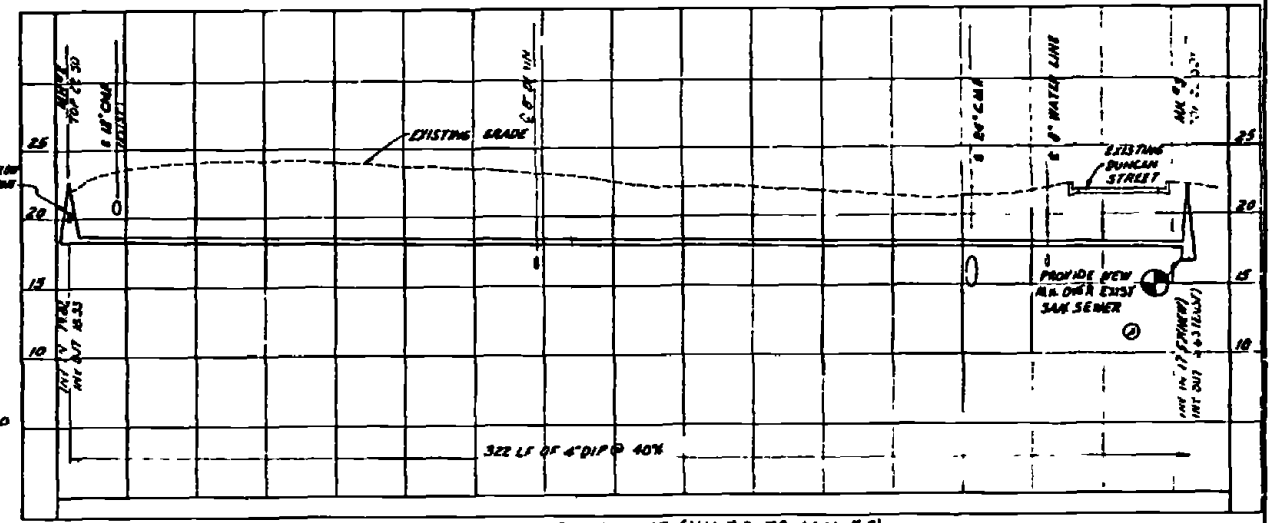
• 8" x 4" ON TOP EXIST. OIL & WATER SEPARATOR
S.E. CORNER ELEVATION 25.90



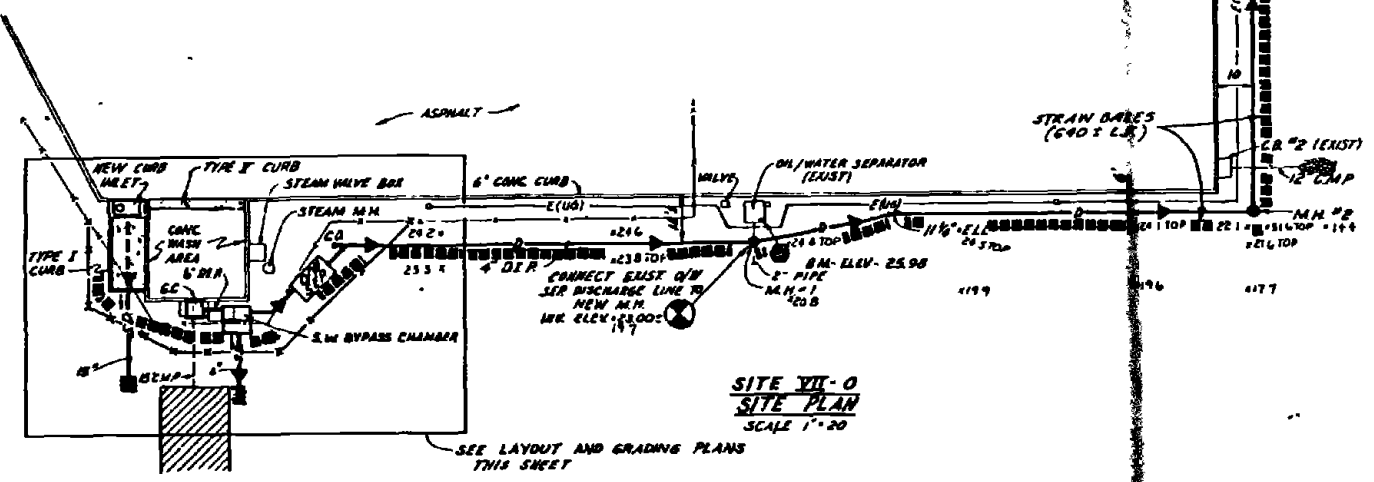
GRADING PLAN
SCALE: 1"=10'



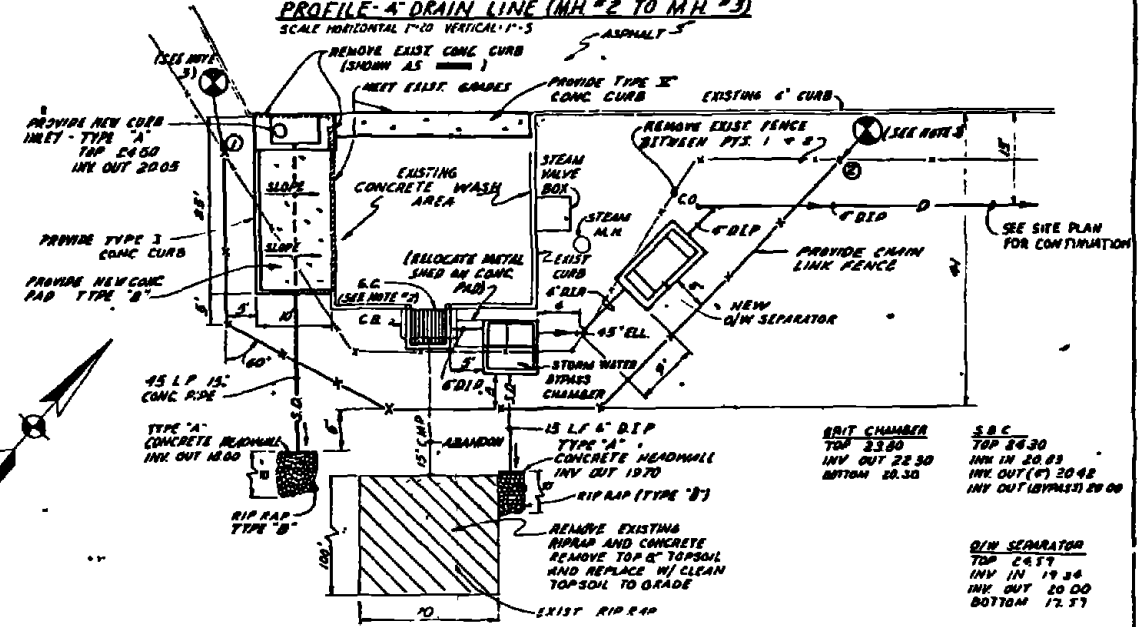
- NOTES**
1. CONNECT TO EXISTING SANITARY SEWER, PROVIDE NEW MANHOLE #3 DIRECTLY OVER EXIST. SEWER.
 2. REMOVE EXIST. CURB INLET DRAINAGE, EXIST. WASH APRON AND PAVED AREA FILL WITH CRUSHED STONE AND PROVIDE NEW GRIT CHAMBER AS SHOWN. NEW GRIT CHAMBER SHALL MEET EXIST. CONC. CURB PROVIDE 1/2" EXPANSION JOINT BETWEEN GRIT CHAMBER AND EXIST. CURB.
 3. EXIST. FENCE SHALL BE REMOVED BETWEEN POINTS ① & ②. PROVIDE NEW FENCE BETWEEN POINTS WHERE SHOWN. CONNECT TO EXIST. FENCE @ POINTS ① & ③.



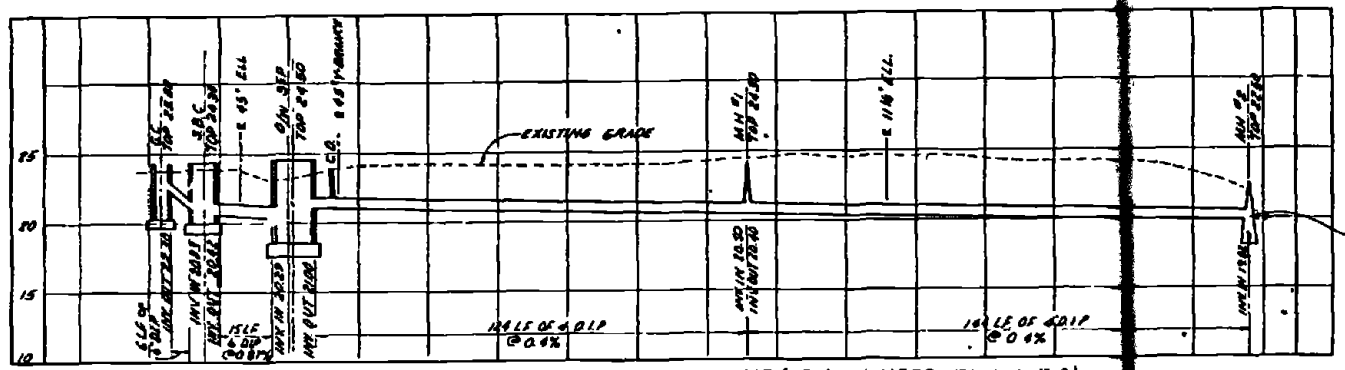
PROFILE - 4" DRAIN LINE (MH #2 TO MH #3)
SCALE HORIZONTAL 1"=10' VERTICAL 1"=3'



SITE VII-0 SITE PLAN
SCALE 1"=20'



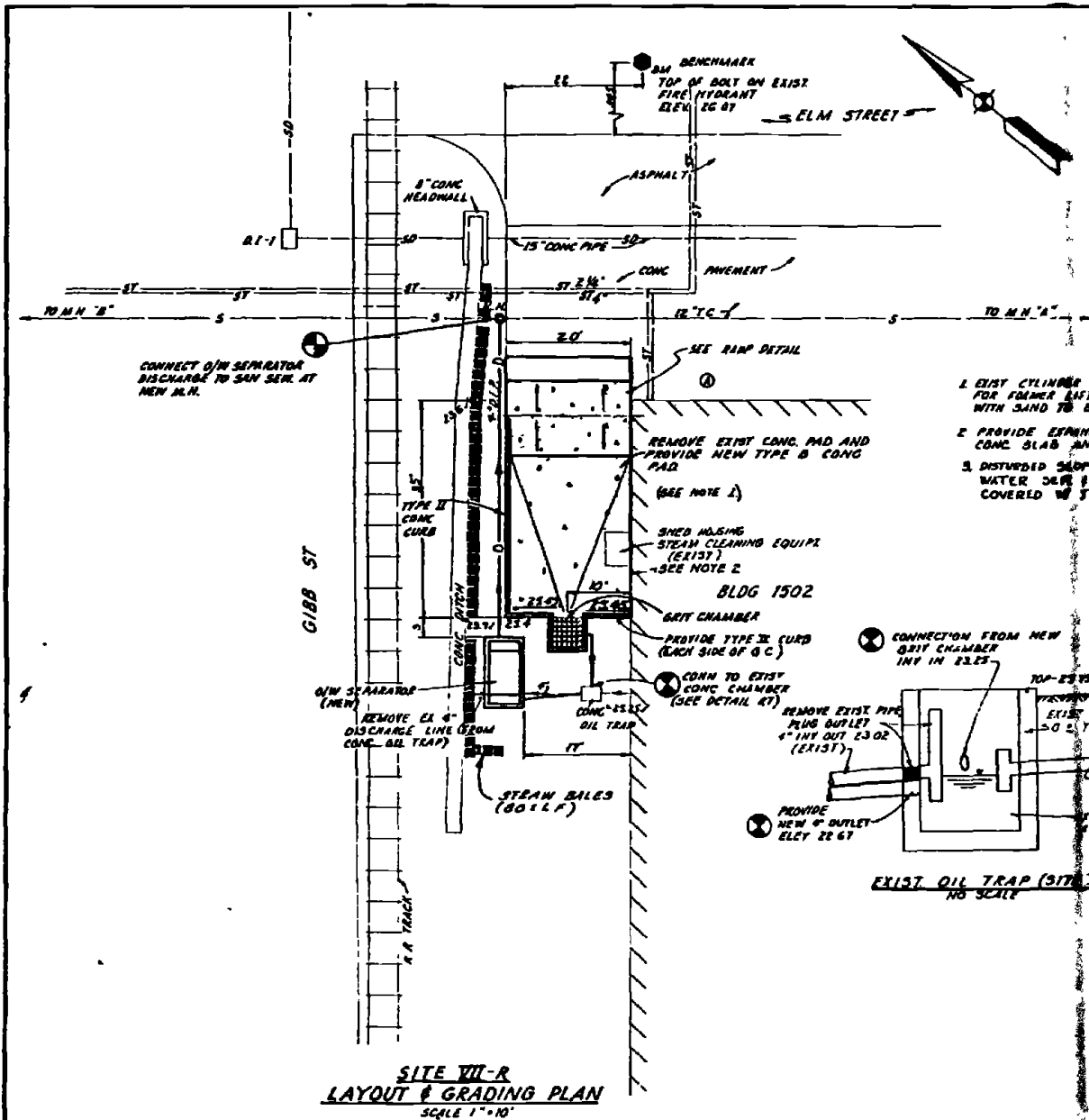
LAYOUT PLAN
SCALE 1"=10'



PROFILE - 4" DRAIN LINE (GRIT CHAMBER TO M.H. #2)
SCALE VERTICAL 1"=3', HORIZONTAL 1"=10'

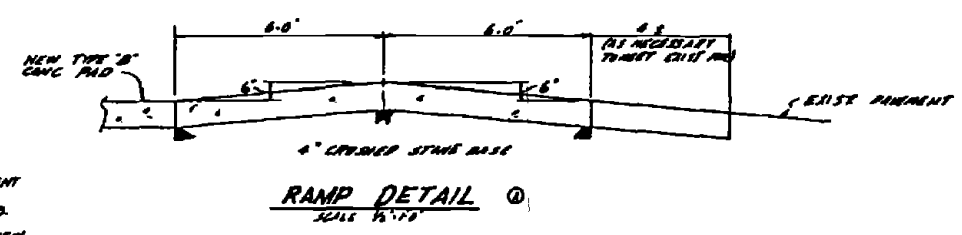
RECORD NO. 17043 DATE FEB 11 1983	C-50
AUSTIN BROCKBROUGH AND ASSOCIATES INCORPORATED 1114 1/2 SOUTH MAIN ST. DURHAM, N.C. 27603	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DESIGNED BY: JWC CHECKED BY: AJS DATE: 11/19/77	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITE VII-0 CIVIL
PROJECT NO. 80091	SHEET NO. 50 OF 112

SYMBOL	DESCRIPTION	DATE	APPROVED
Ⓢ	REVISED - J.S. BULLY	1/2/72	

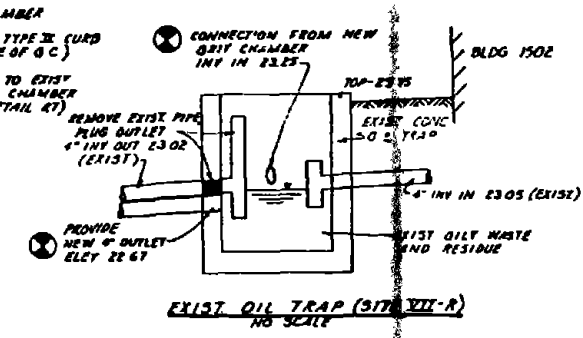


**SITE VII-R
LAYOUT & GRADING PLAN
SCALE 1"=10'**

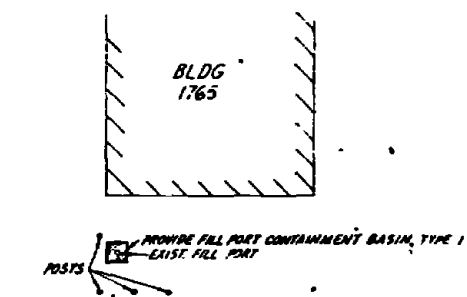
- NOTES**
- EXIST CYLINDER WALLS, STEEL COVER (MISC. EQUIPMENT FOR FORMER USE) SHALL BE REMOVED. FILL OPENING WITH SAND TO BELOW CRUSHED STONE FOR NEW SLAB.
 - PROVIDE EXPANSION JOINT MATERIAL BETWEEN NEW CONC. SLAB AND EXIST BUILDING WALL.
 - DISTURBED SLOPE BETWEEN NEW CONC. PAD & OIL/WATER DEP. & THE EXIST CONC. DITCH SHALL BE COVERED W/ JUTE MESH PRIOR TO SEEDING.



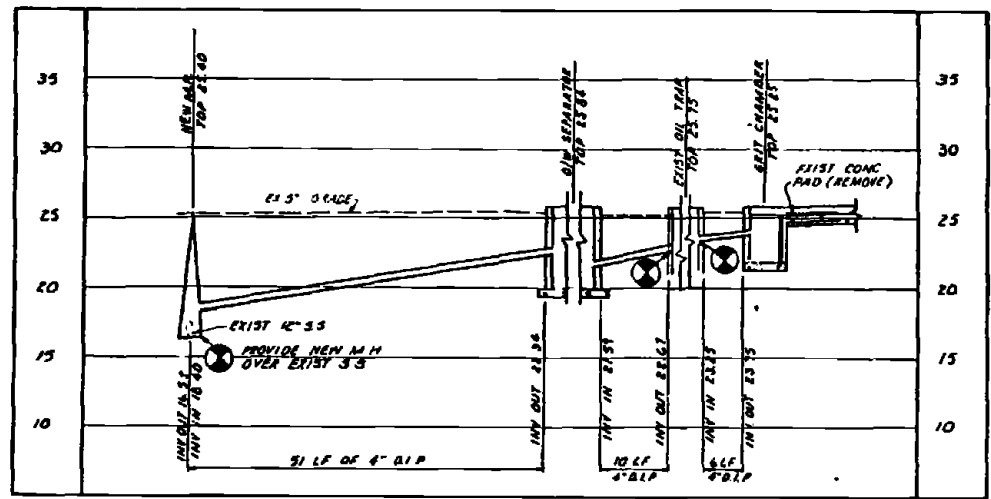
**RAMP DETAIL
SCALE 1/2"=1'**



**EXIST OIL TRAP (SITE VII-R)
NO SCALE**

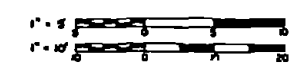


**SITE VII-Q
LAYOUT PLAN
SCALE 1"=10'**

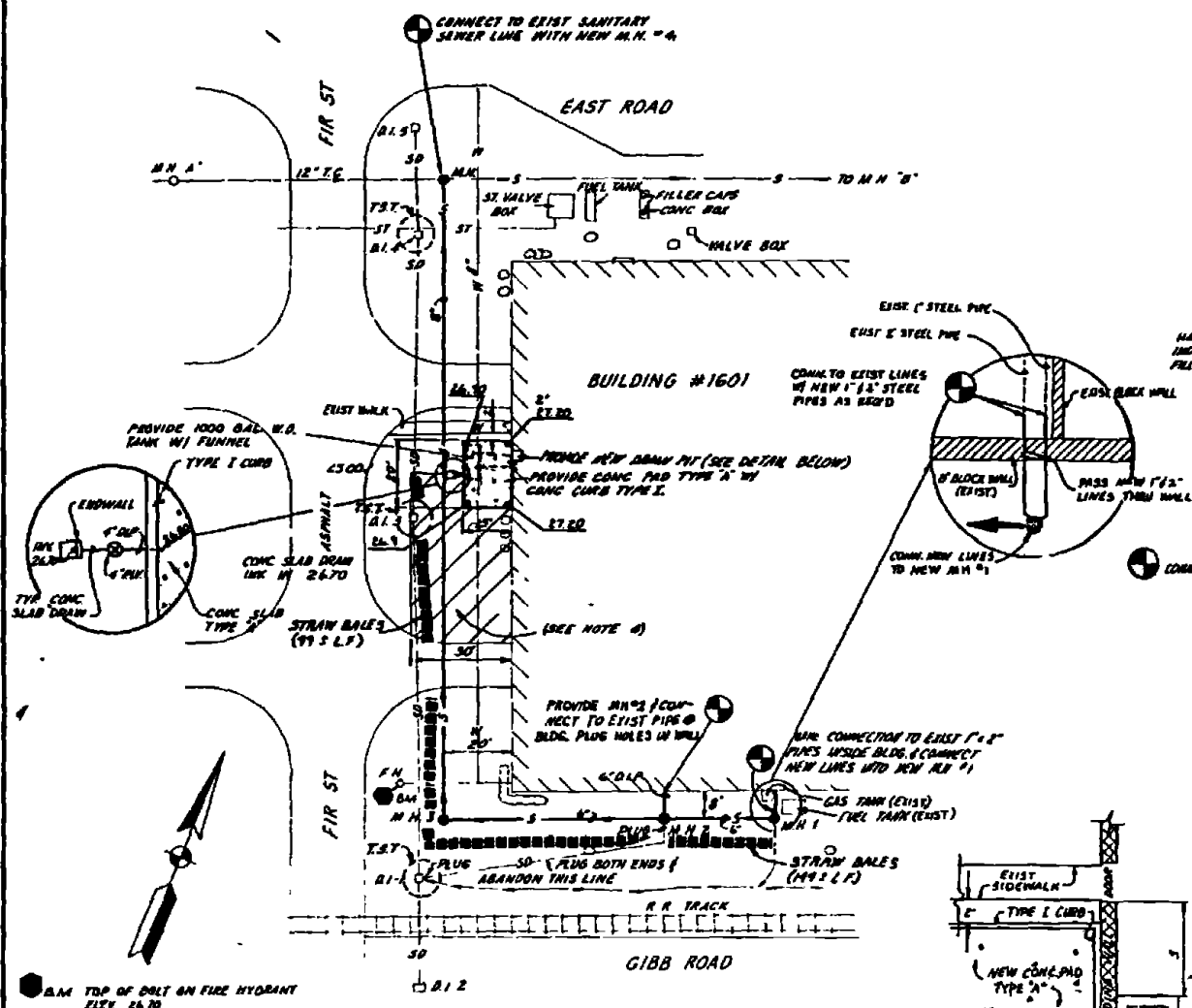


**PROFILE-DISCHARGE LINE (SITE VII-R)
SCALE VERTICAL 1"=5', HORIZONTAL 1"=10'**

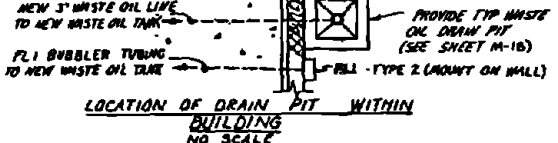
RECORD DRAWING DATE FEB '1983		C-51	
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineers 12119 79th St. Dallas, Texas 75244		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION CAMP LEJEUNE NORTH CAROLINA 28542-5000	
PROJECT NO. 4052520 DATE 12/19/72 DRAWN BY J.S. BULLY CHECKED BY J.S. BULLY APPROVED BY J.S. BULLY		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILE-SITES III-P, III-Q, III-R CIVIL	
DRAWING NO. 4052520		DRAWING NO. 4052520	
SHEET 51 OF 112		SHEET 51 OF 112	



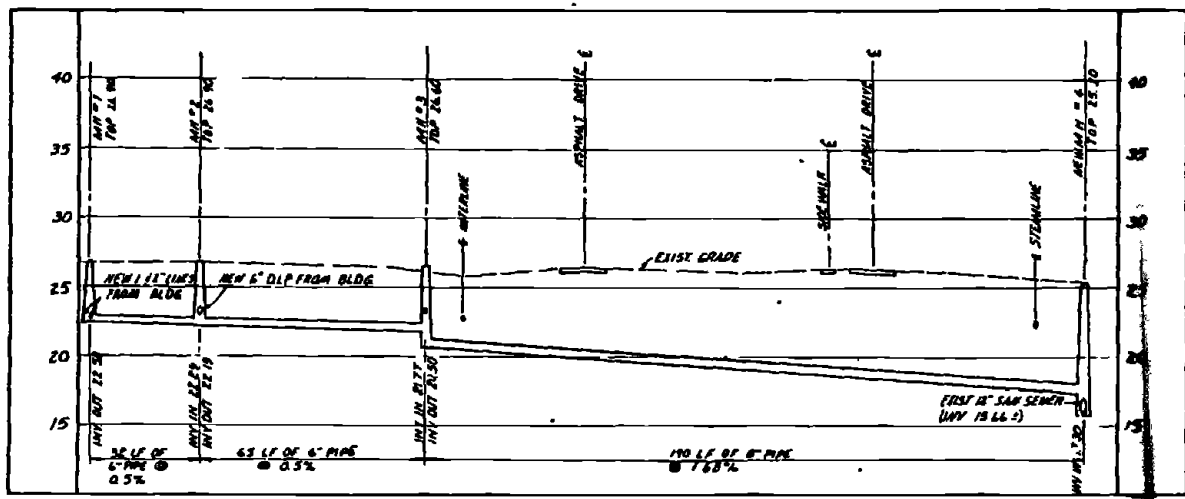
REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED



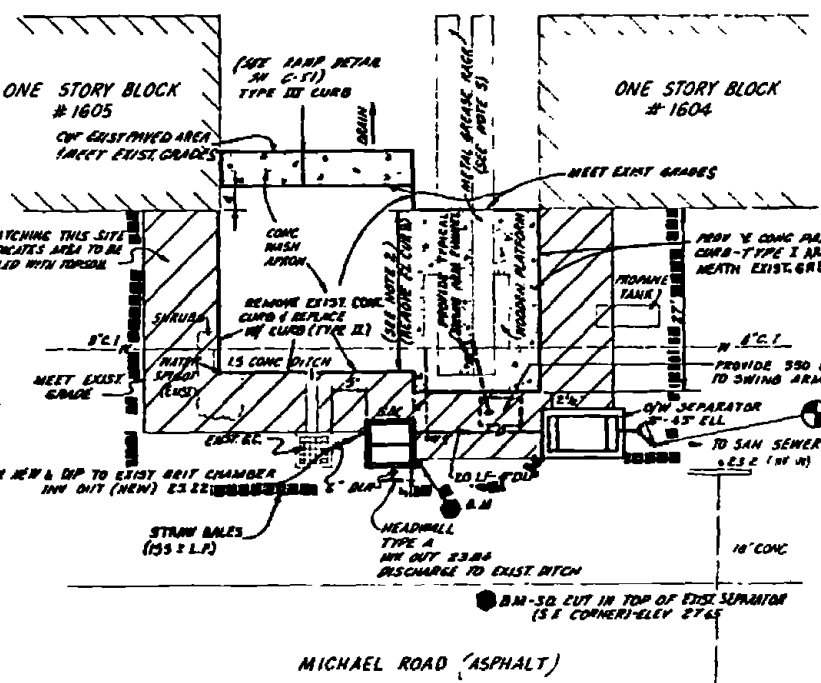
**SITE VII-S
LAYOUT AND GRADING PLAN**
SCALE 1"=20'



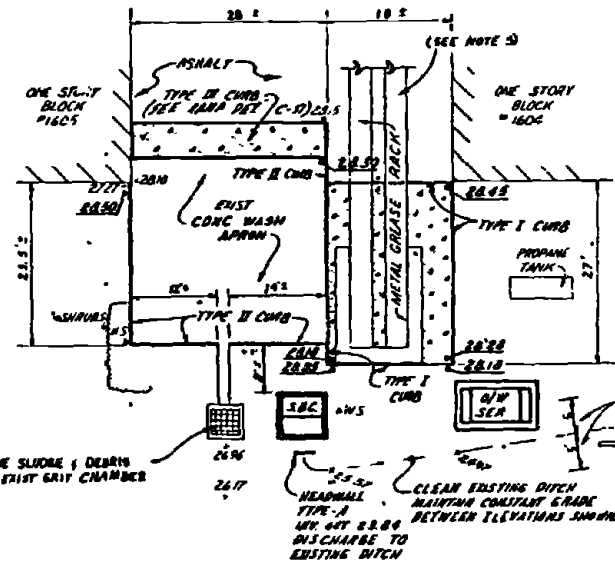
**LOCATION OF DRAIN PIT WITHIN
BUILDING**
NO SCALE



PROFILE-OIL STORAGE RACK PAD
SCALE 1"=10' (HORIZ), 1"=5' (VERT)



**SITE VII-T
LAYOUT PLAN**
SCALE 1"=10'



**SITE VII-T
GRADING PLAN**
SCALE 1"=10'

- NOTES**
1. PROVIDE SWING ARM FUNNEL, ATTACH TO STEEL GREASE RACK AND CONN TO NEW W.D. TANK
 2. REMOVE INDICATED SECTION OF CURB AND MAKE SMOOTH CONNECTION TO NEW PAD
 3. CONTRACTOR SHALL UNCOVER THE EXISTING SANITARY SEWER LINE TO DETERMINE EXACT LOCATION AND DEPTH BEFORE COMMENCING WORK IN THIS AREA
 4. HATCHING INDICATES AREA OF CONTAMINATED SOIL. REMOVE TOP 8" OF SOIL AND REPLACE TO GRADE W/ OIL FREE TOPSOIL. DO NOT DISTURB TREES OR SHRUBS
 5. THE EXIST STEEL GREASE RACK AT SITE VII-T SHALL BE MOVED FROM AREA DURING CONSTRUCTION OF NEW CONC PAD. FOLLOWING CONSTRUCTION OF PAD THE GREASE RACK SHALL BE REPLACED AND BOLTED TO NEW CONC FOR TYPICAL DETAILS OF GREASE RACK INSTALLATION SEE SHEET M-19. GREASE RACK IS PRESENTLY INSTALLED AS SHOWN FOR TYPE (B) INSTALLATION ON SHEET M-19
 6. REMOVE EXIST SANITARY SEWER BETWEEN EXIST GRIT CHAMBER AND POINT OF NEW CONN TO EXIST SEWER

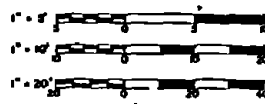
SBC

TOP 20.00
1.14 IN 24.47
INV OUT (M-24) 24.26
INV OUT (M-24) 24.00

Q/W SEP

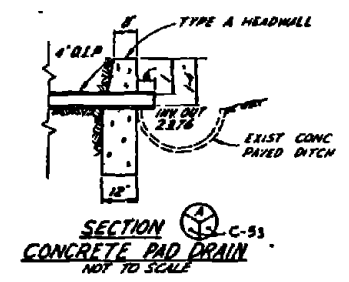
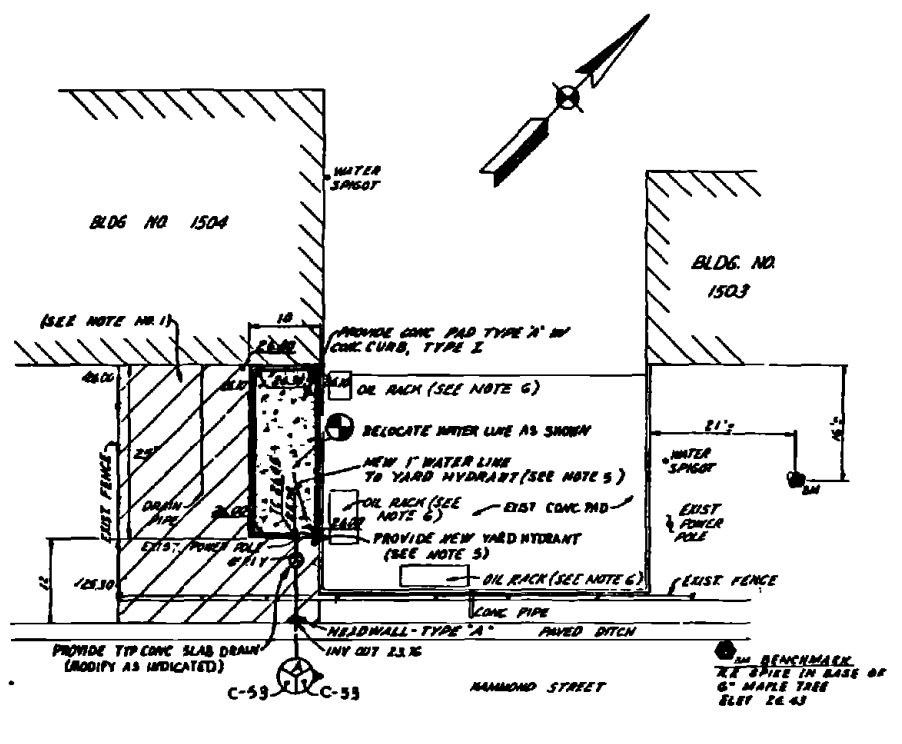
TOP 20.20
INV IN 22.95
INV OUT 23.70
BOTTOM 21.20

RECORD SEALING DATE FEB 11 1977	C-52
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 1217 1/2 S. 11th St. DALLAS, TEXAS 75215	ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA
PROJECT NO. 405521 DATE 12/19/77 BY [Signature] CHECKED [Signature]	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILE - SITES VII-S & VII-T CIVIL
APPROVED [Signature] DATE 1/10/78	SCALE AS NOTED SHEET 03 TB 0268 SHEET 5 OF 178

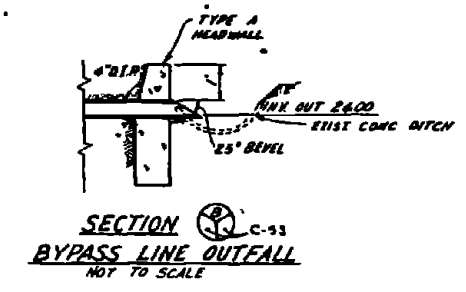


REVISIONS		
NO.	DESCRIPTION	DATE APPROVED
1	REVISED AS BUILT	2/2/82

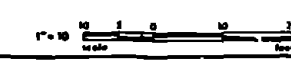
- NOTES**
1. CROSS HATCHING INDICATES AREA OF OIL CONTAMINATED SOIL REMOVE TOP 8 INCHES AND REPLACE TO GRADE WITH OIL-FREE TOPSOIL.
 2. PAVE OVER EXISTING CONCRETE WASH APRON @ SITE XII-V TO GRADE. INDICATED NEW CONC SLAB SHALL BE TYPE "D".
 3. CONTRACTOR SHALL CONNECT TO EXISTING SANITARY LINE. EXISTING LINE IS @ ELEVATION (INVERT) 2272.5.
 4. CONTRACTOR SHALL BACKFILL AND GRADE ALL DISTURBED AREAS AROUND WASH APRON. THE FINISHED GRADING SHALL NOT EXCEED A MAXIMUM SLOPE OF 4:1.
 5. EXIST WATER SPIGOT LOCATED WHERE NEW CONC SLAB IS INDICATED AT SITE XII-U SHALL BE REMOVED AND PLUGGED BELOW GRADE. A NEW 1" WATER LINE SHALL BE EXTENDED TO THE NEW YARD HYDRANT AS SHOWN.
 6. FOLLOWING CONSTRUCTION OF NEW CONC PAD, PLACE EXIST OIL DRUM RACKS ON NEW PAD.



SITE XII-V LAYOUT PLAN
SCALE 1"=10'



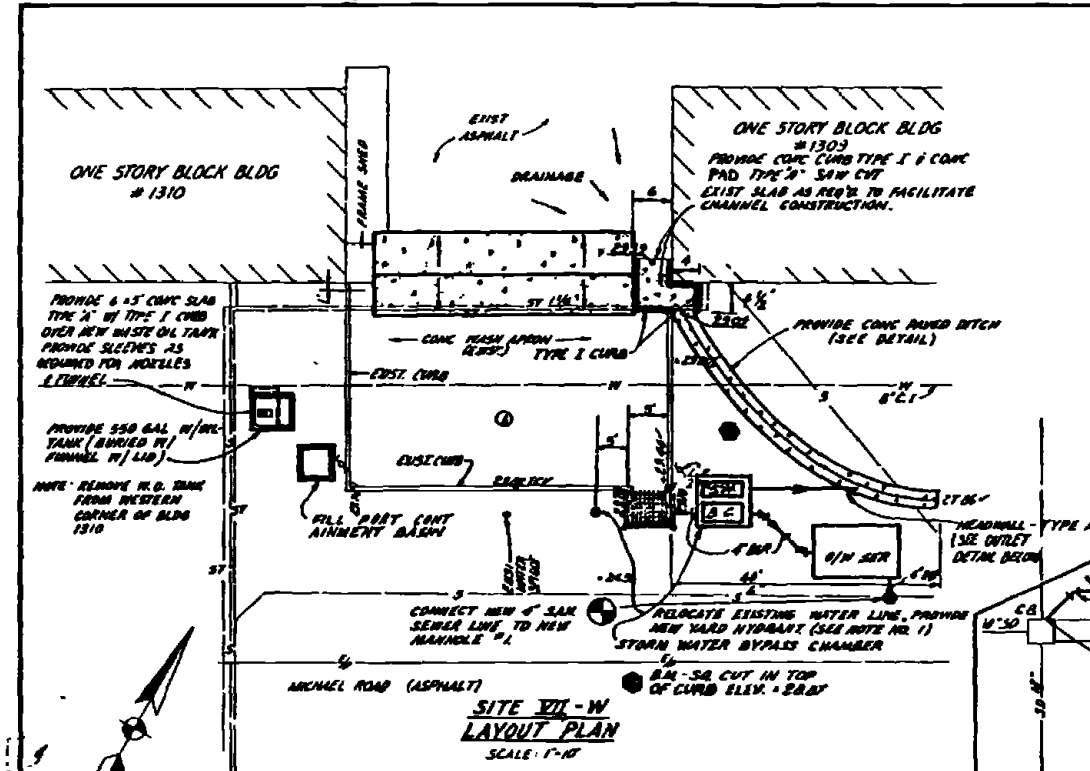
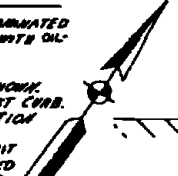
RECEIVED FEB 11 1982		C-53	
AUSTIN BROCKENBROUGH AND ASSOCIATES CONSULTING ENGINEERS 1111 1/2 S. 11th St. DALLAS, TEXAS 75215		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO. 614A SHEET NO. 11/11/79		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS-SITES XII-U & XII-V CIVIL	
APPROVED: [Signature] DATE:		DRAWN: [Signature] DATE:	
PROJECT NO. 614A SHEET NO. 11/11/79		DRAWING NO. 4052522	
APPROVED: [Signature] DATE:		CONTRACT NO. N62470-75-B-8268 SHEET 1 OF 75	
SCALE AS NOTED		DATE: 05-18-82	



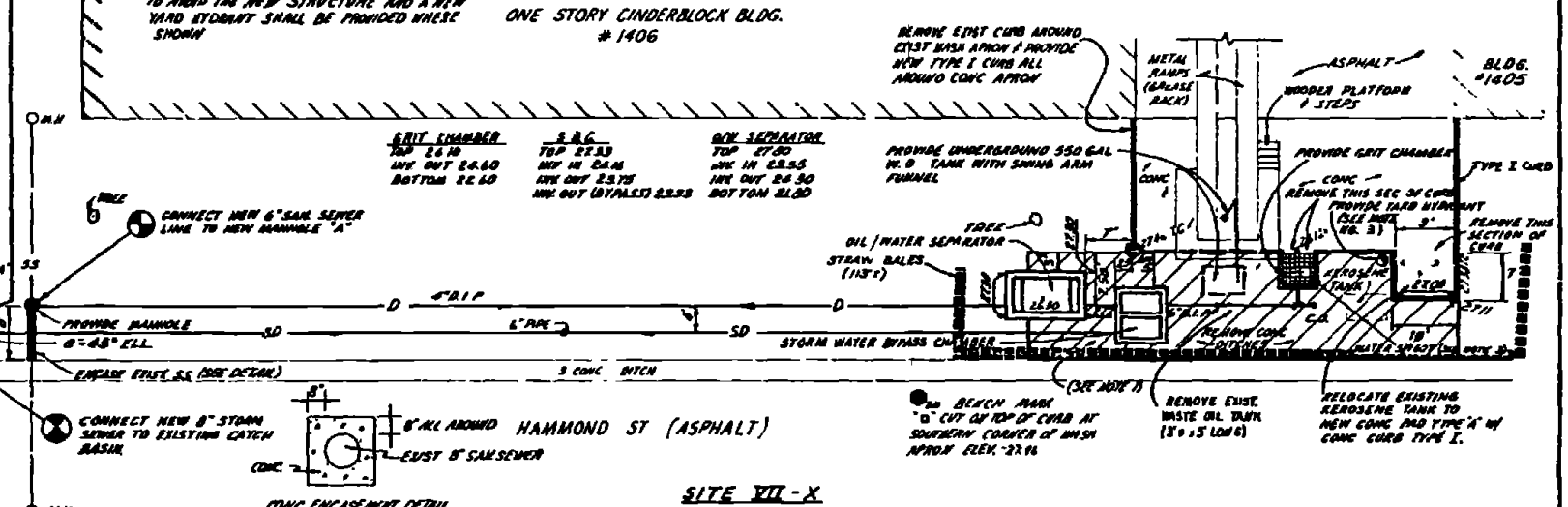
REV	DESCRIPTION	DATE	APPROVED
(1)	REVISED AS BUILT	1/2/81	

NOTES TO SITE VII-X

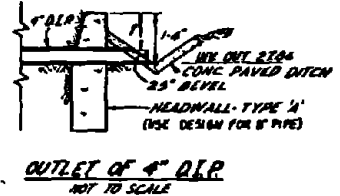
- CROSS HATCHING INDICATES AREA OF OIL CONTAMINATED SOIL. REMOVE TOP 6" AND REPLACE TO GRADE WITH OIL-FREE TOPSOIL.
- NEW GUT CHAMBER SHALL BE PROVIDED AS SHOWN. CURB AROUND GUT CHAMBER SHALL MEET EXIST CURB. SEE DETAIL "A", 30 C. 99 FOR SIMILAR APPLICATION.
- EXIST WATER SPOUT LOCATED WHERE NEW GUT CHAMBER IS TO BE PROVIDED SHALL BE RELOCATED. THE EXIST WATER LINE SHALL BE RELOCATED TO AROUND THE NEW STRUCTURE AND A NEW YARD HYDRANT SHALL BE PROVIDED WHERE SHOWN.



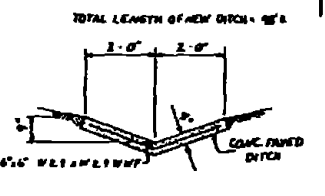
**SITE VII-W
LAYOUT PLAN
SCALE 1"=10'**



**SITE VII-X
LAYOUT PLAN
SCALE 1"=10'**



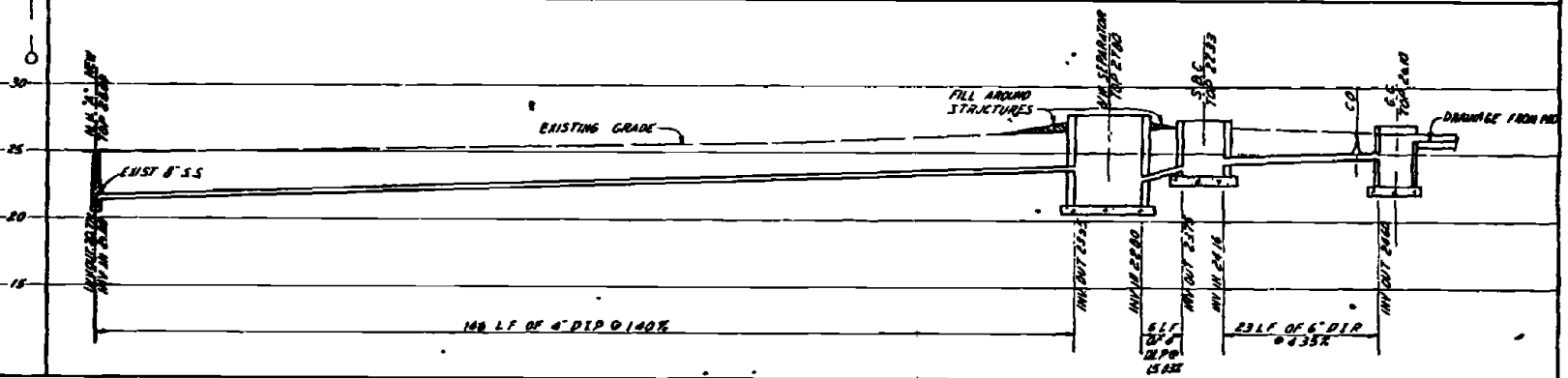
**OUTLET OF 4" DRP
NOT TO SCALE**



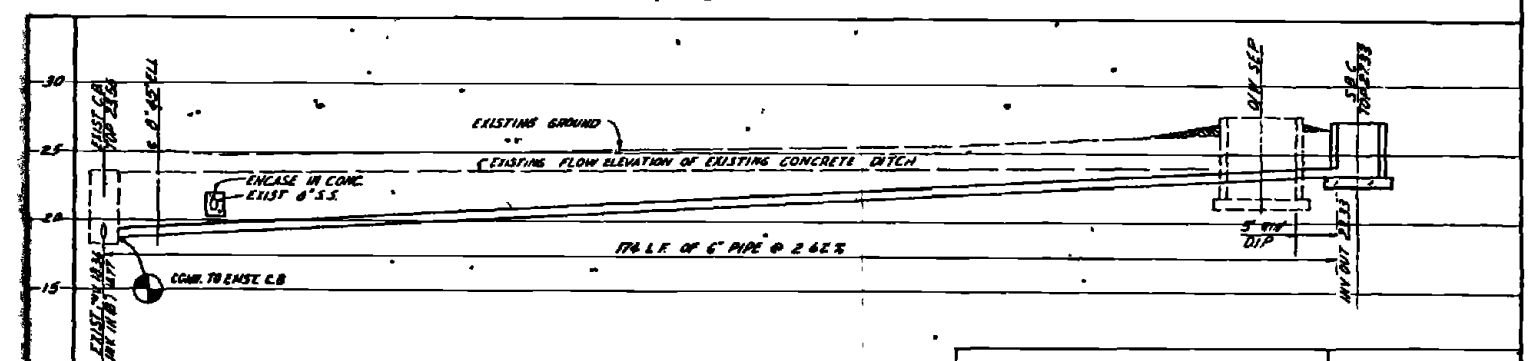
**CONCRETE PAVED DITCH DETAIL
SCALE 1/4"=1'0"**

NOTES TO VII-W

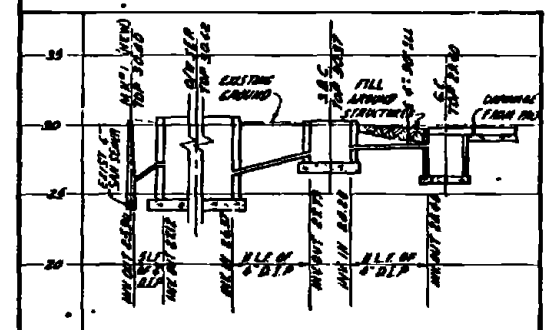
- CONTRACTOR SHALL LOCATE EXIST WATER LINE SERVING THE EXIST WATER SPOUTS PRIOR TO CONSTRUCTION. EXIST WATER LINE SHALL BE RELOCATED AS REQUIRED TO SERVE NEW YARD HYDRANT AS SHOWN.
- NEW GUT CHAMBER SHALL BE PROVIDED AS SHOWN. CURB AROUND GUT CHAMBER SHALL MEET EXIST CURB. SEE DETAIL "A" 30 C. 99 FOR SIMILAR APPLICATIONS.



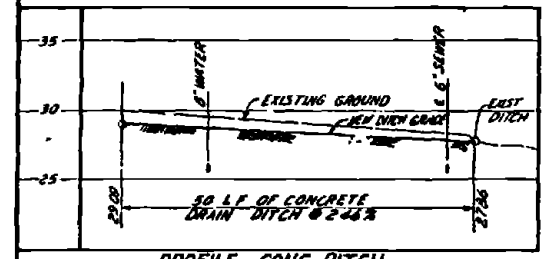
PROFILE - 4" DRAIN LINE



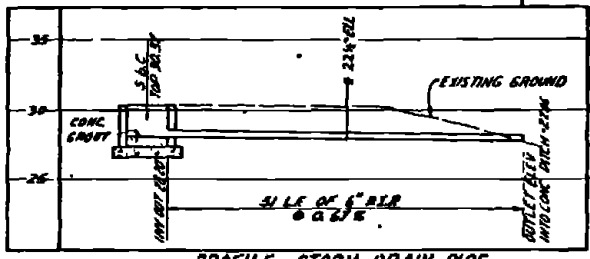
**PROFILES - 4" & 6" LINES (SITE VII-X)
SCALE VERT 1"=5', HORIZ 1"=10'**



**PROFILE - WASH APRON DRAIN
(SITE VII-W)
SCALE 1"=5' VERT, 1"=10' HORIZ**



PROFILE - CONC DITCH



PROFILE - STORM DRAIN PIPE

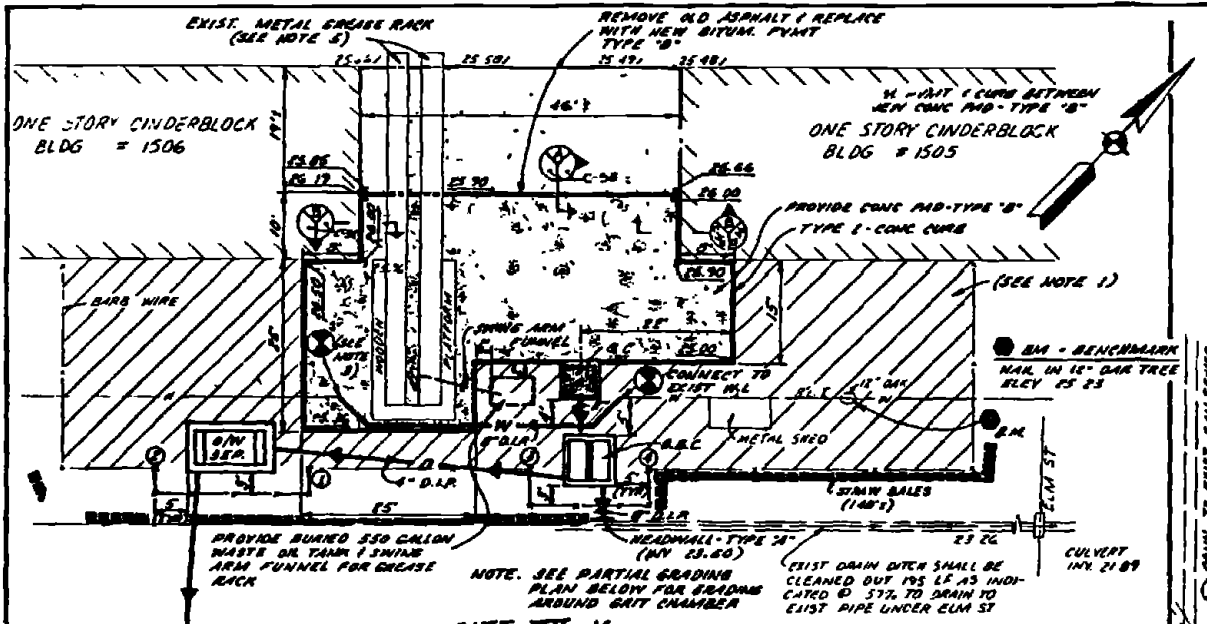
**PROFILES - SITE VII-W
SCALE VERT 1"=5', HORIZ 1"=10'**

RECORD DRAWING
DATE FEB 11 1981
C-54

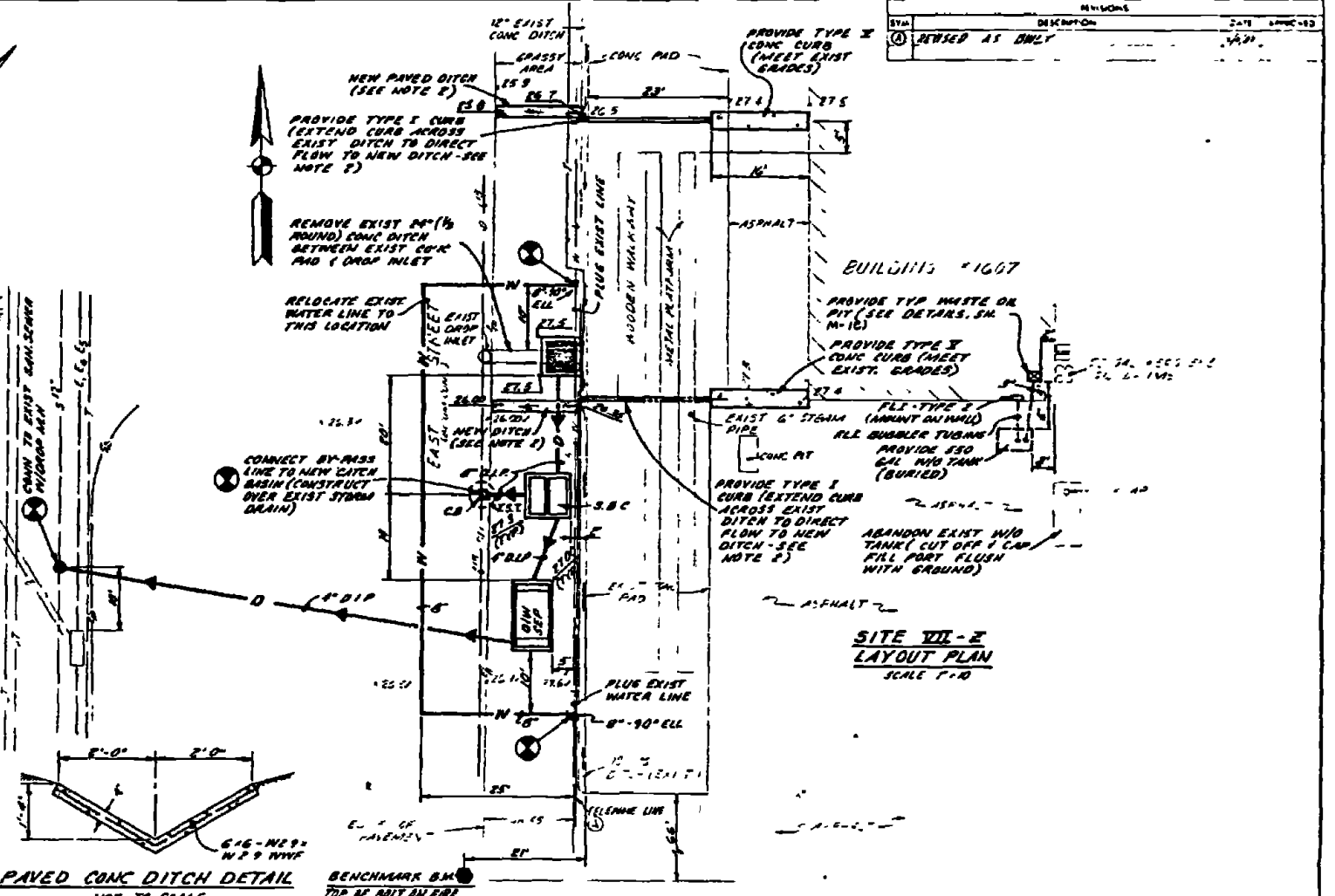
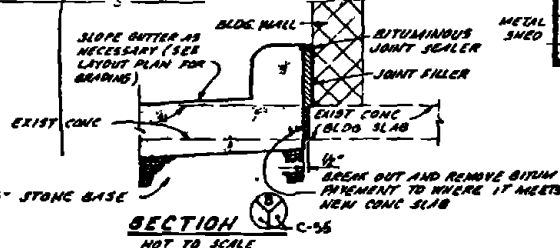
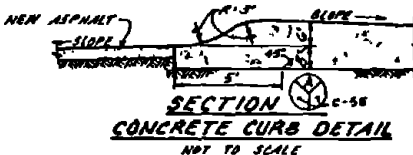
AUSTIN BROCKENBROUGH AND ASSOCIATES
1111 1/2 W. 11th St.
DALLAS, TEXAS 75204
11/11/77

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
SITE PLANS & PROFILES SITES VII-W & VII-X
CIVIL

CONTRACT NO. 4052523
CONTRACT NO. 4052523-18 B 8268
SCALE AS NOTED SHEET 05 OF 8268



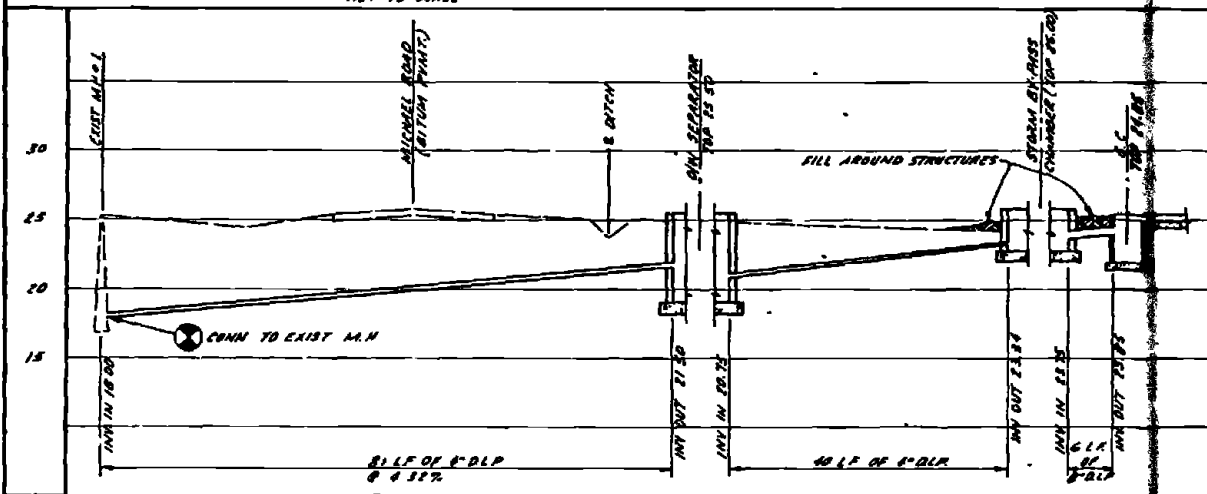
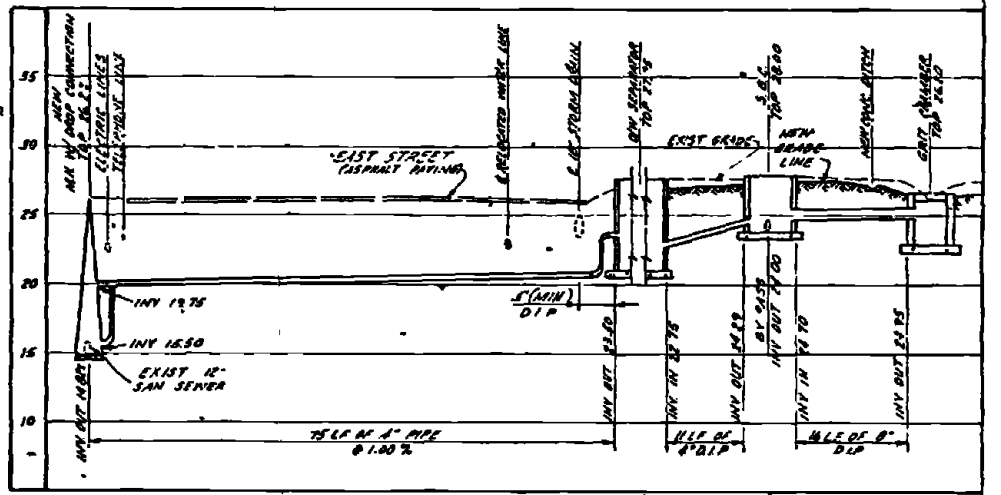
SITE VII-Y LAYOUT PLAN
SCALE 1"=10'



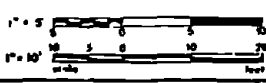
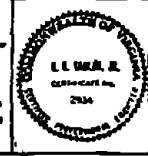
SITE VII-Z LAYOUT PLAN
SCALE 1"=10'

PAVED CONC DITCH DETAIL
NOT TO SCALE

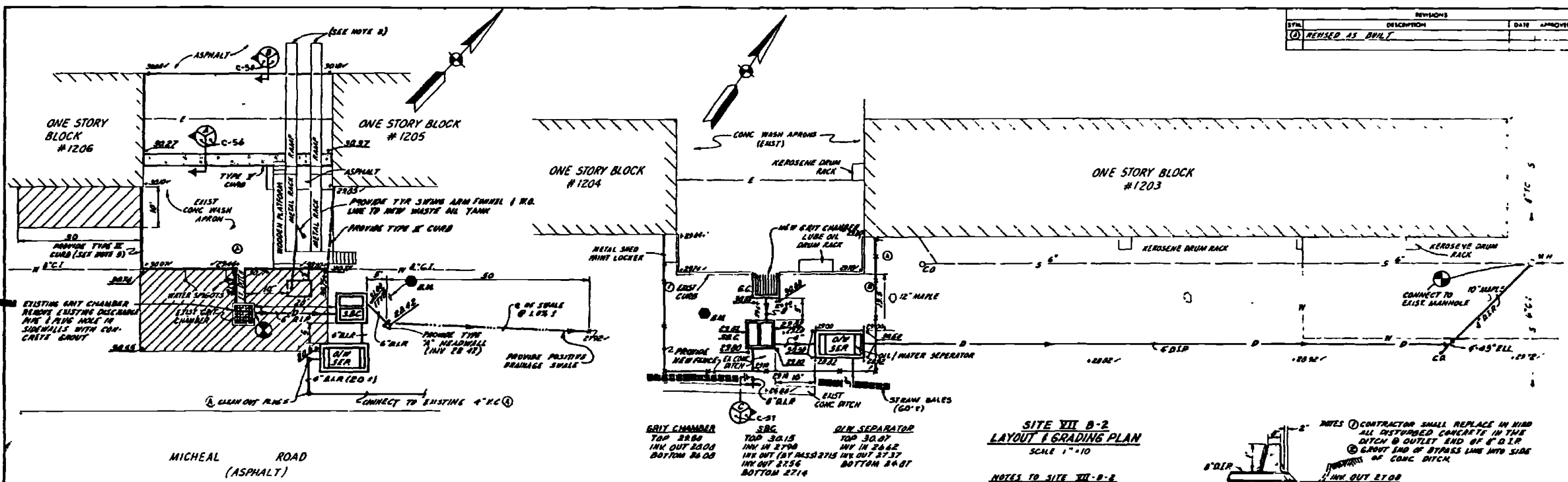
- NOTES:**
1. CROSS HATCHING INDICATES AREA OF OR CONTAMINATED SOIL REMOVE 1/2" & 6" INCHES AND REPLACE TO GRADE WITH CLEAN TOPSOIL
 2. PAVED DITCH SHALL BE CONSTRUCTED AS DETAIL AND MODIFY NEW DITCH AS REQUIRED TO MAKE SMOOTH CONNECTION TO EXIST DITCH (MATCH EXIST GRADES TO PROVIDE POSITIVE DRAINAGE)
 3. EXIST 6" W/L ADJACENT TO NEW CONC WASH APRON AT SITE VII-Y SHALL BE RELOCATED AS SHOWN AROUND THE NEW STRUCTURE EXIST LINE BETWEEN CONNECTION AT EACH END SHALL BE REMOVED
 4. EXIST FENCE LOCATED BETWEEN POINTS ① & ② AND ③ & ④ SHALL BE REMOVED & NEW FENCE PROVIDED AS SHOWN CONNECT TO EXIST FENCE AT POINTS ⑤ & ⑥
 5. THE EXIST STEEL GREASE RACK AT SITE VII-Y SHALL BE MOVED FROM AREA DURING CONSTRUCTION OF NEW CONCRETE PAD FOLLOWING CONSTRUCTION OF PAD THE GREASE RACK SHALL BE REPLACED & BOLTED TO NEW CONCRETE. FOR TYPICAL DETAILS OF GREASE RACK INSTALLATION, SEE SHEET M-19 EXIST GREASE RACK IS BOLTED TO 6" x 8" WOOD BEAMS SET IN THE GROUND.



PROJECT DRAWING DATE FEB 11 1963		C-55	
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 1700 W. 17th St. DALLAS, TEXAS		MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PLANS & PROFILES - SITES VII-Y & VII-Z CIVIL	
DESIGNED BY CHECKED BY DATE SCALE AS SHOWN	DATE SCALE AS SHOWN	SHEET NO. F 30091	PROJECT NO. 4052524

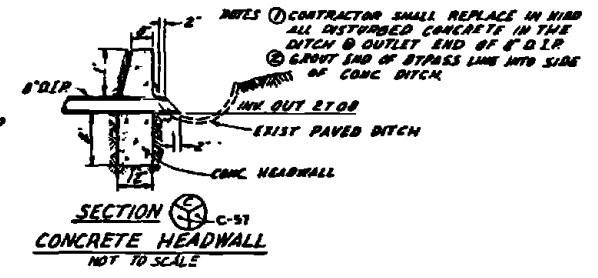


SYMBOL	DESCRIPTION	DATE	APPROVED
(1)	REVISED AS BUILT		



**SITE VII B-2
LAYOUT & GRADING PLAN**
SCALE 1"=10'

NOTES TO SITE VII-B-2
 1. NEW FENCE SHALL BE PROVIDED WHERE INDICATED AND CONNECTED TO EXIST FENCE AT POINTS (1) & (2).
 2. EXIST FENCE BETWEEN POINTS (1) & (2) SHALL BE REMOVED.

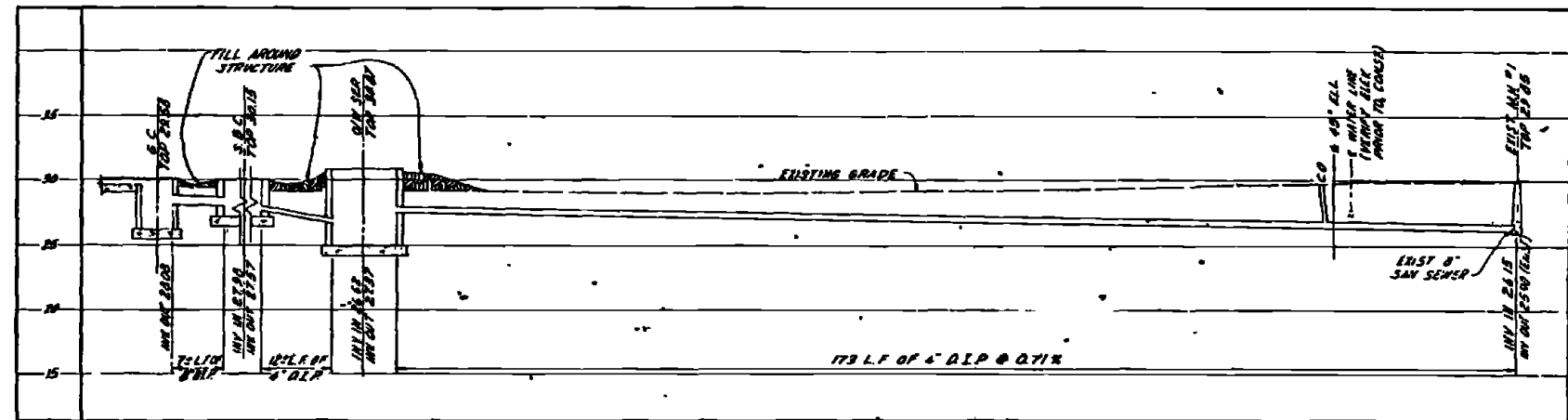


**SECTION C-51
CONCRETE HEADWALL**
NOT TO SCALE

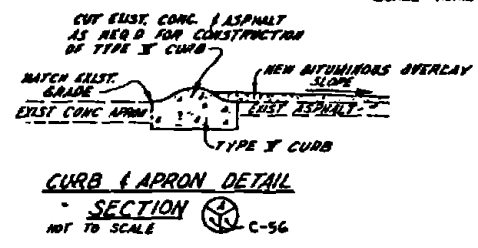
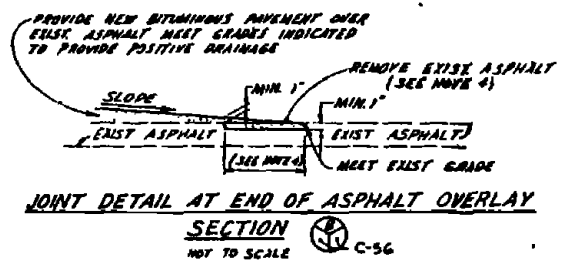
EXISTING	O/W SEPARATOR	S.B.C.	B.M. BENCHMARK
GRIT CHAMBER TOP 22.80 INK OUT 22.00 BOTTOM 25.75	TOP 30.15 INV IN 27.90 INV OUT 27.56 BOTTOM 27.14	TOP 31.41 INV IN 29.25 INV OUT (BYPASS) 28.66 INV OUT (47) 28.63 BOTTOM 22.41	B.M. BENCHMARK N.E. SPIKE IN POWER POLE 20 S.E. OF BLDG 1205 ELEV. 30.94

**SITE VII A-2
LAYOUT & GRADING PLAN**
SCALE 1"=10'

- NOTES TO SITE VII-A-2**
- CONNECT TO EXIST 3" O/W SEPARATOR DISCHARGE LINE
 - REMOVE EXIST GREASE RACK THAT SPANS NEW ASPHALT AREA. REPLACE AFTER NEW BITUMINOUS PAVING IS COMPLETED. EXIST RACKS ARE NOT ANCHORED.
 - CROSS HATCHING INDICATES AREA OF OIL CONTAMINATED SOIL. REMOVE TOP 8 INCHES AND REPLACE TO GRADE WITH CLEAN TOPSOIL.
 - REMOVAL OF EXIST ASPHALT PAVEMENT SHALL BE REQUIRED WHERE DEPTH OF NEW BITUMINOUS PAVEMENT SHALL BE LESS THAN 1" REMOVE A MINIMUM OF 1" ASPHALT PAVEMENT WHERE REQUIRED.
 - THE EXIST 8" BLOCK CURB SURROUNDING THE EXIST CONC WASH APRON SHALL BE REMOVED. PROVIDE NEW TYPE II CONC CURB AROUND WASH APRON AS SHOWN.
 - REMOVE THE EXIST OIL/WATER SEPARATOR AND PUMP THE EXIST PARTIALLY BURIED WASTE OIL TANK AND UNDERGROUND WASTE OIL TANK (LOCATED ADJACENT TO EXIST SEPARATOR).



PROFILE - WASH APRON DRAIN
SCALE HORIZ 1"=10', VERT 1"=5'



RECORD DRAWING DATE: FEB 11 1972		C-56	
AUSTIN BROOKBROUGH AND ASSOCIATES INCORPORATED 1215 W. 12TH ST. DALLAS, TEXAS 75204		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VIRGINIA	
DESIGNED BY: JWC CHECKED BY: JWC DATE: 12/11/72		NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO. 80091		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITES VII-A-2 & VII-B-2	
DRAWN BY: JWC DATE: 12/11/72		CIVIL	
APPROVED BY: JWC DATE: 12/11/72		DRAWING NO. 405-515	
SCALE: AS NOTED		CONTRACT NO. N62470 TB-B 826B	
SHEET 1 OF 1		DATE: 12/11/72	

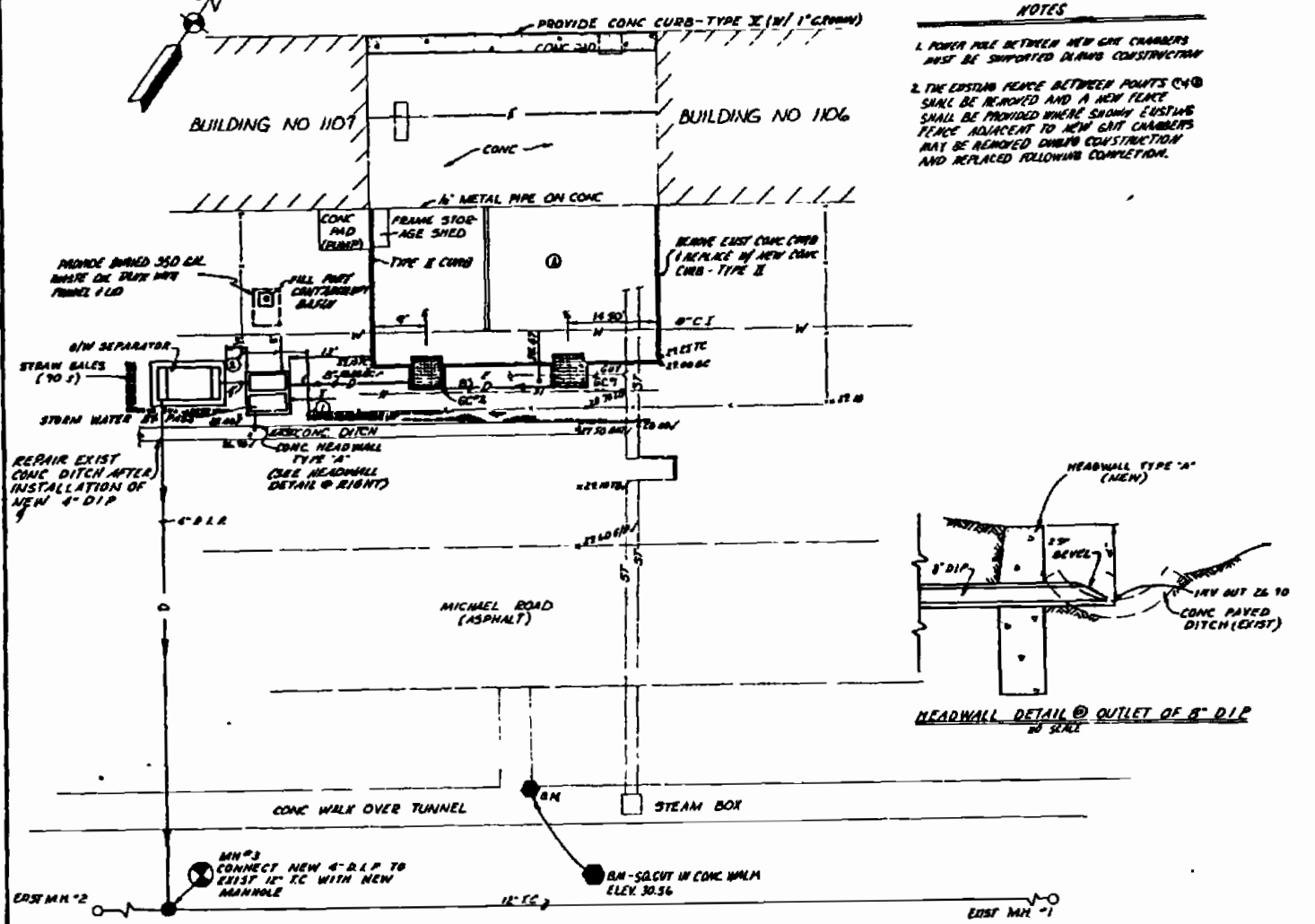
REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
0	REVISION AS SHOWN	1/1/80	

GRIT CHAMBER #1
 TOP 28.34
 INV OUT 27.42
 BOTTOM 25.42

GRIT CHAMBER #2
 TOP 28.70
 INV OUT 27.88
 BOTTOM 25.88

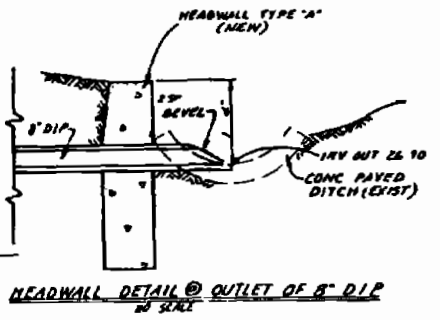
S&C
 TOP 27.40
 INV IN 25.83
 INV OUT 26.02
 INV OUT (BT-PASS) 27.00
 BOTTOM 24.40

6" DI
 TOP 30.75
 INV IN 28.10
 INV OUT 28.45
 BOTTOM 19.50

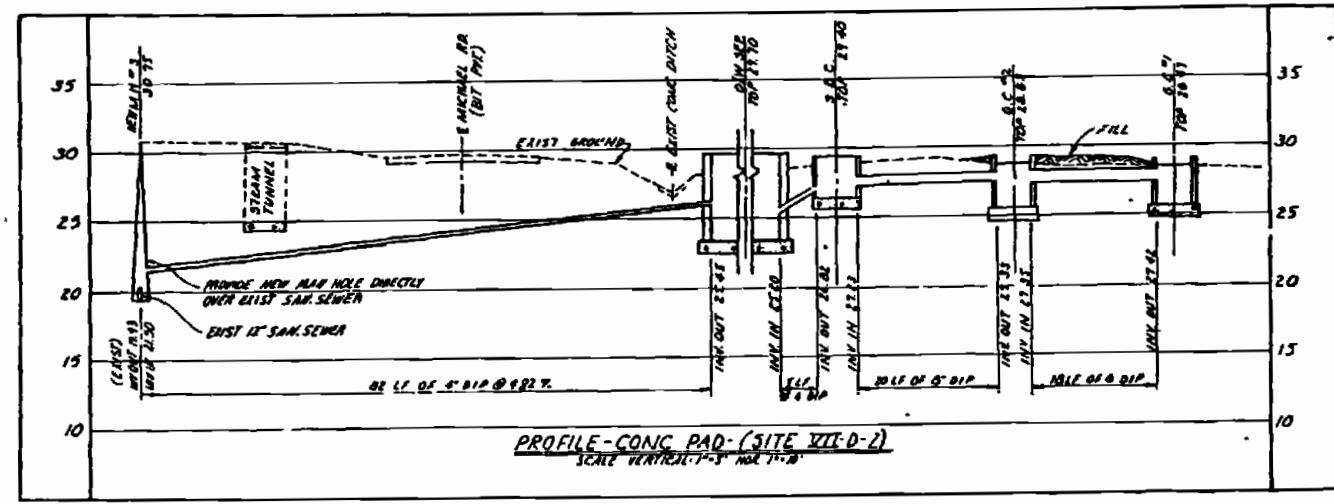


NOTES

1. POWER POLE BETWEEN NEW GRIT CHAMBERS MUST BE SUPPORTED DURING CONSTRUCTION
2. THE EXISTING FENCE BETWEEN POINTS C40 & C41 SHALL BE REMOVED AND A NEW FENCE SHALL BE PROVIDED WHERE SHOWN. EXISTING FENCE ADJACENT TO NEW GRIT CHAMBERS MAY BE REMOVED DURING CONSTRUCTION AND REPLACED FOLLOWING COMPLETION.

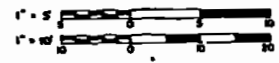


SITE VII-D-2
LAYOUT PLAN
 SCALE: 1" = 10'

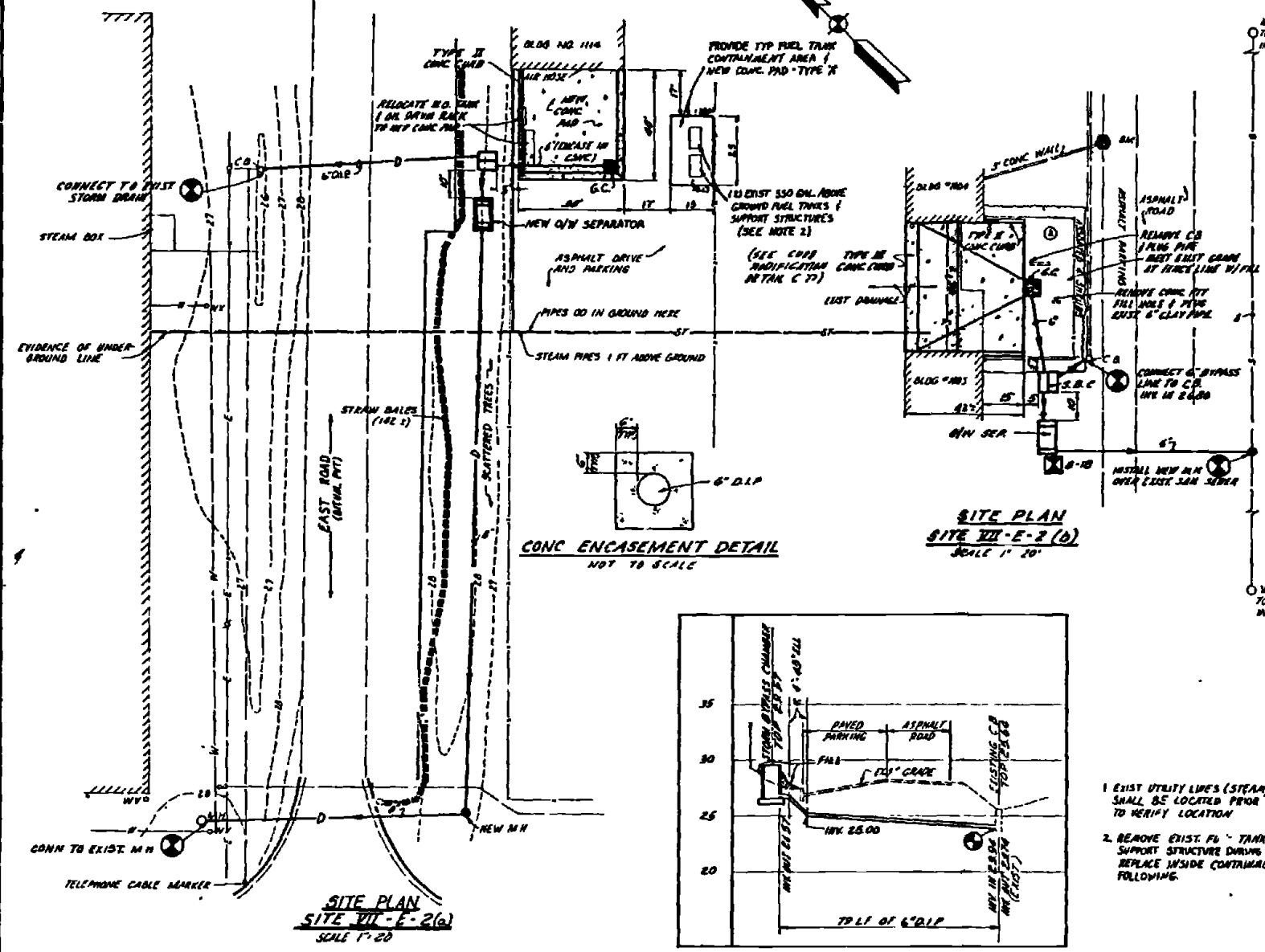


PROFILE - CONC PAD (SITE VII-D-2)
 SCALE VERTICAL: 1" = 5' HOR: 1" = 10'

RECORD DRAWING NO. C-57	DATE: FEB 11 1980
AUSTIN BROCKENBROUGH AND ASSOCIATES	DEPARTMENT OF THE NAVY
1215 S. W. 13th St. Fort Lauderdale, FL 33304	ATLANTIC DIVISION
PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	SHEET: 51 OF 115
DATE: 12-19-79	PROJECT NO.: 4052526
DESIGNED BY: [Signature]	COMBAT CONT. NO. 462470 TB 8 0268
APPROVED BY: [Signature]	SCALE AS NOTED
DATE: 1-1-80	NO. OF SHEETS: 115

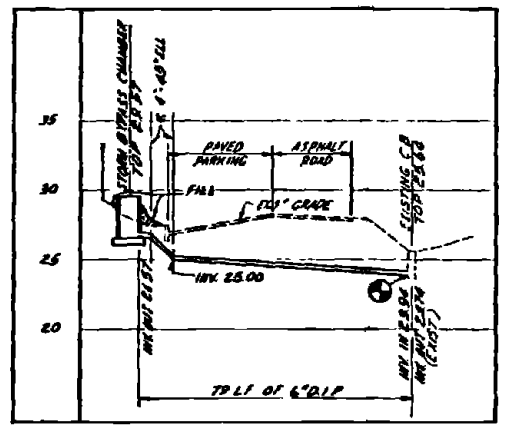


REV	DESCRIPTION	DATE	APPROVED
0	REVISED AS BUILT		



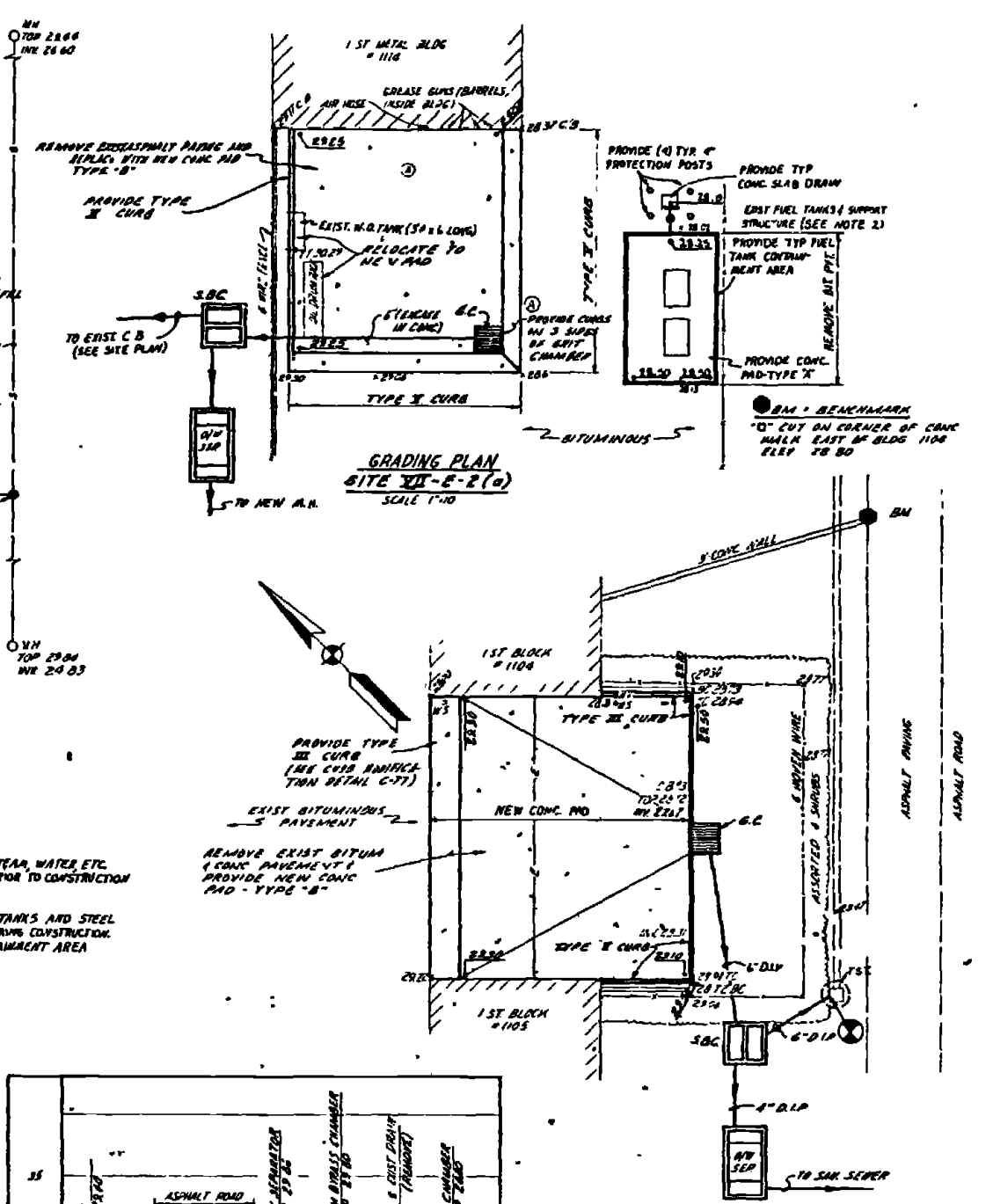
CONC ENCASEMENT DETAIL
NOT TO SCALE

SITE PLAN
SITE VII-E-2(a)
SCALE 1"=20'



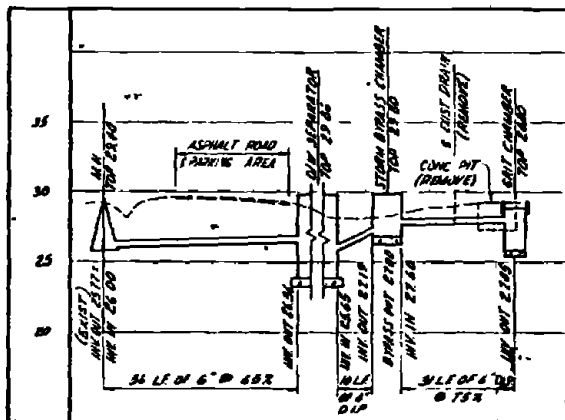
PROFILE-STORM BYPASS DRAIN LINE
SITE VII-E-2(a)
SCALE 1"=5 (VERT), 1"=20 (HORIZ)

1. EXIST UTILITY LINES (STEAM, WATER, ETC.) SHALL BE LOCATED PRIOR TO CONSTRUCTION TO VERIFY LOCATION.
2. REMOVE EXIST FL. TANKS AND STEEL SUPPORT STRUCTURE DURING CONSTRUCTION. REPLACE INSIDE CONTAINMENT AREA FOLLOWING.

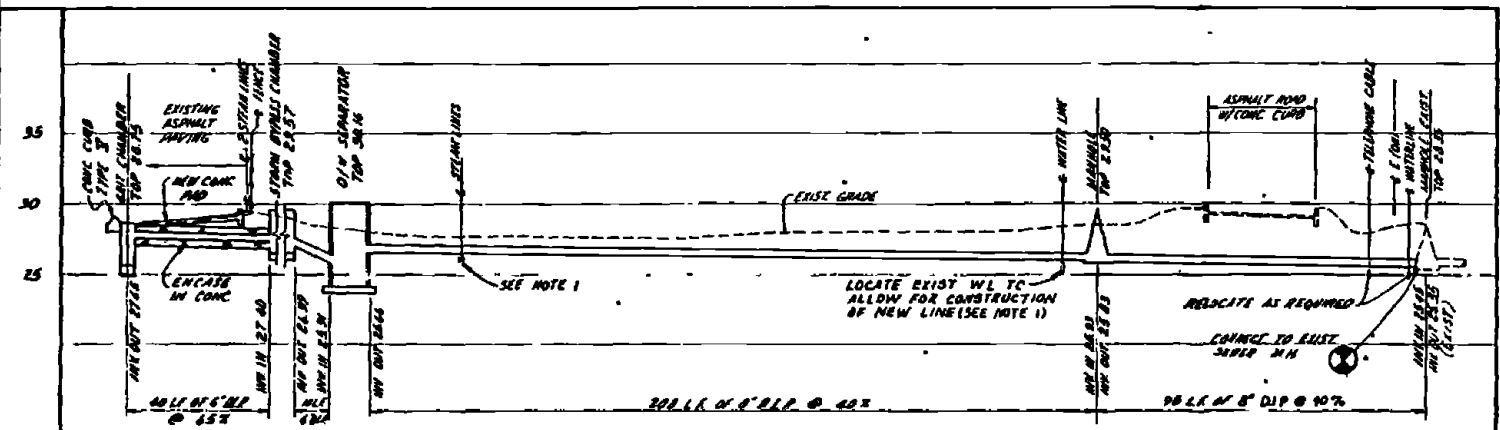


GRADING PLAN
SITE VII-E-2(b)
SCALE 1"=10

GRADING PLAN
SITE VII-E-2(b)
SCALE 1"=10



PROFILE-SITE VII-E-2(b)
SCALE 1"=20 (HORIZ), 1"=5 (VERT)

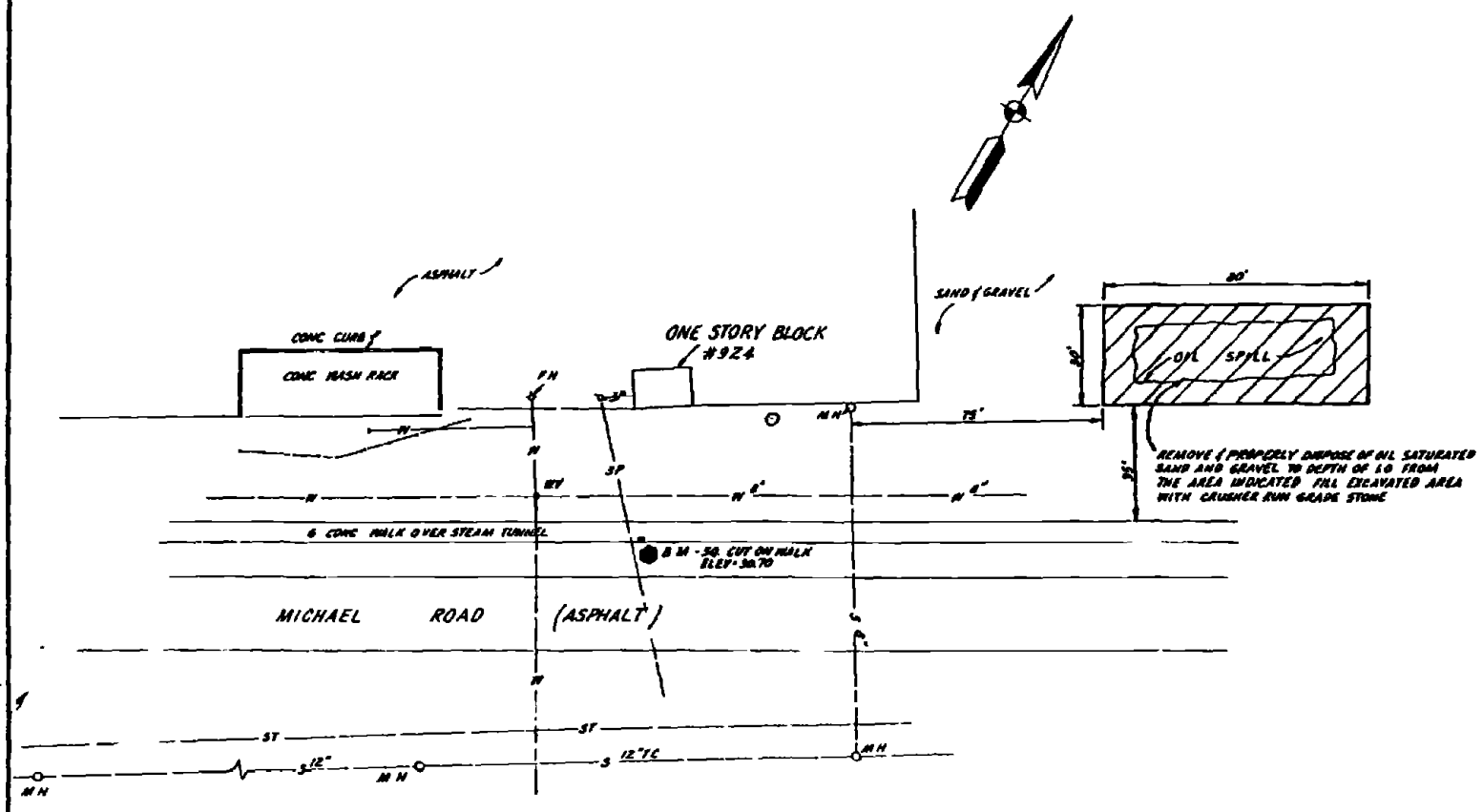


PROFILE-GRIT CHAMBER TO M.H. (SITE VII-E-2(a))
SCALE 1"=20 (HORIZ), 1"=5 (VERT)

FEB 17 1993
 C-58
 DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 ATLANTIC DIVISION
 MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
 INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
 SITE PLANS & PROFILES - SITE VII-E-2
 CIVIL
 DRAWING NO. 4052527
 SHEET 55 OF 116
 152521

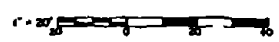


REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED



SITE VII - F-2
LAYOUT PLAN
 SCALE 1" = 20'

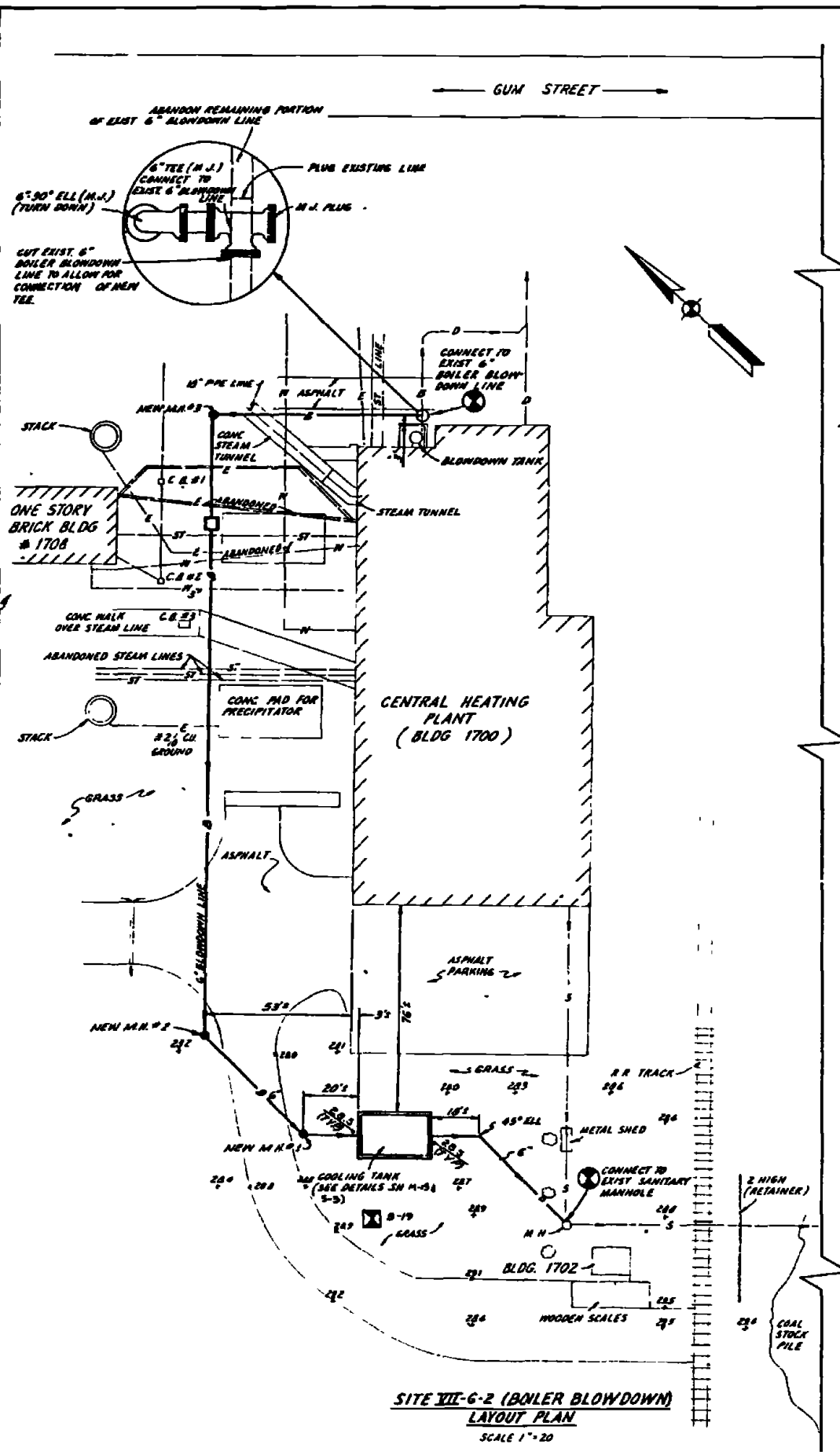
NOTES
 1. REPAIR WATER SPIGOTS SERVING THE EXIST WASH APRONS PLUS THE WATER LINE BELOW GROUND



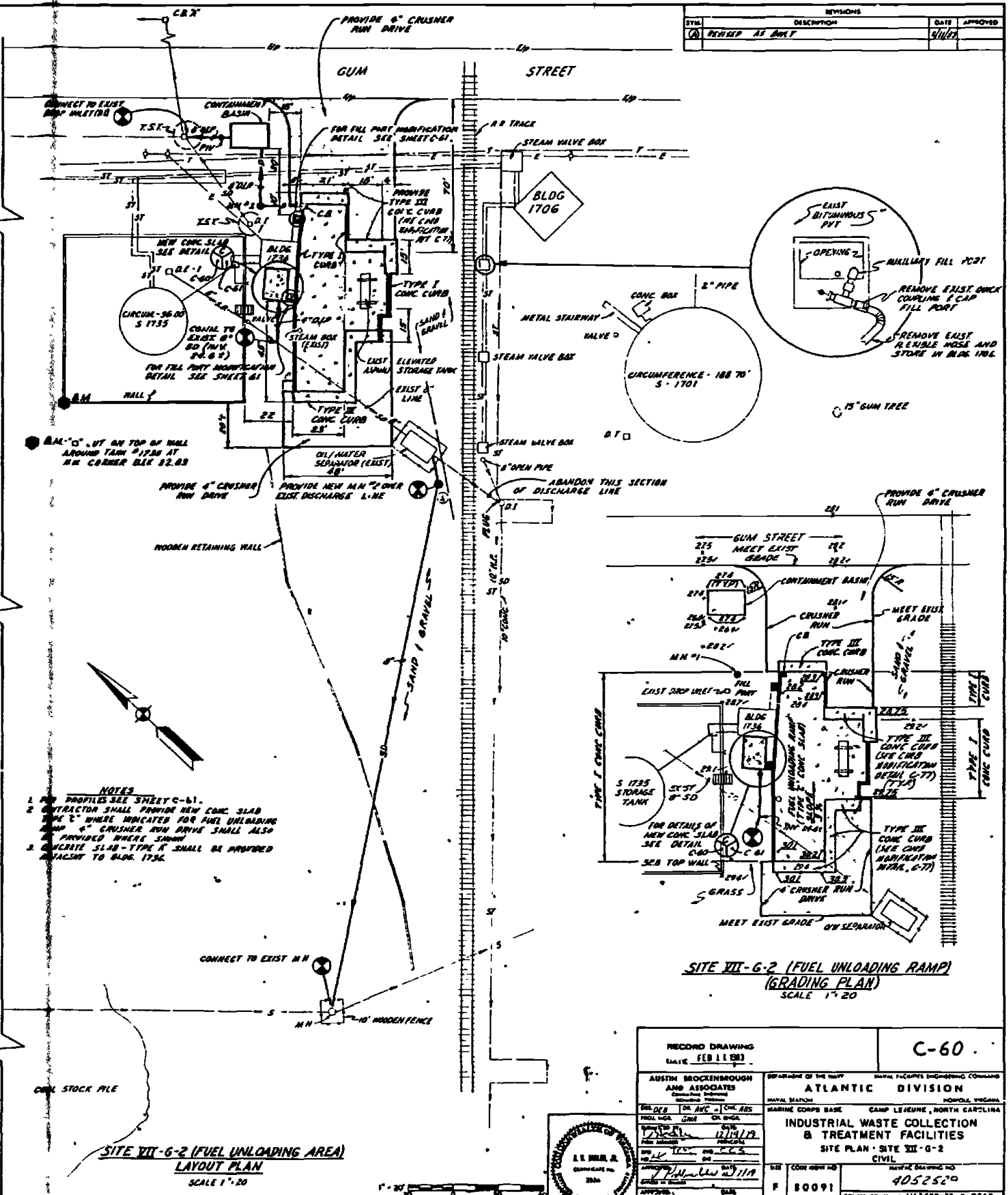
RECORD DRAWING		DATE FEB 11 1983		C-59	
AUSTIN BROCKMOUGH AND ASSOCIATES		ATLANTIC DIVISION			
MARINE CORPS BASE		CAMP LEJEUNE, NORTH CAROLINA			
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES		SITE PLAN - SITE VII - F-2			
CIVIL		DRAWING NO. 4052529			
F 80091		SHEET 59 OF 110			
SCALE AS NOTED		MFC 05 78 3660			

DATE 12/1/82

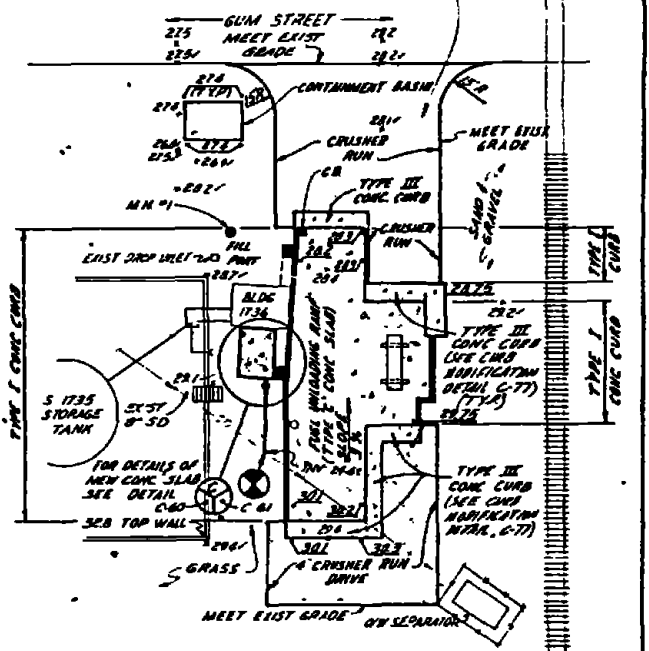
REV	DESCRIPTION	DATE	APPROVED
1	PREPARED AS DWG	5/1/52	



SITE VII-G-2 (BOILER BLOWDOWN)
LAYOUT PLAN
SCALE 1"=20'



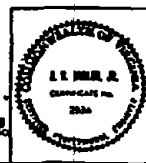
SITE VII-G-2 (FUEL UNLOADING AREA)
LAYOUT PLAN
SCALE 1"=20'



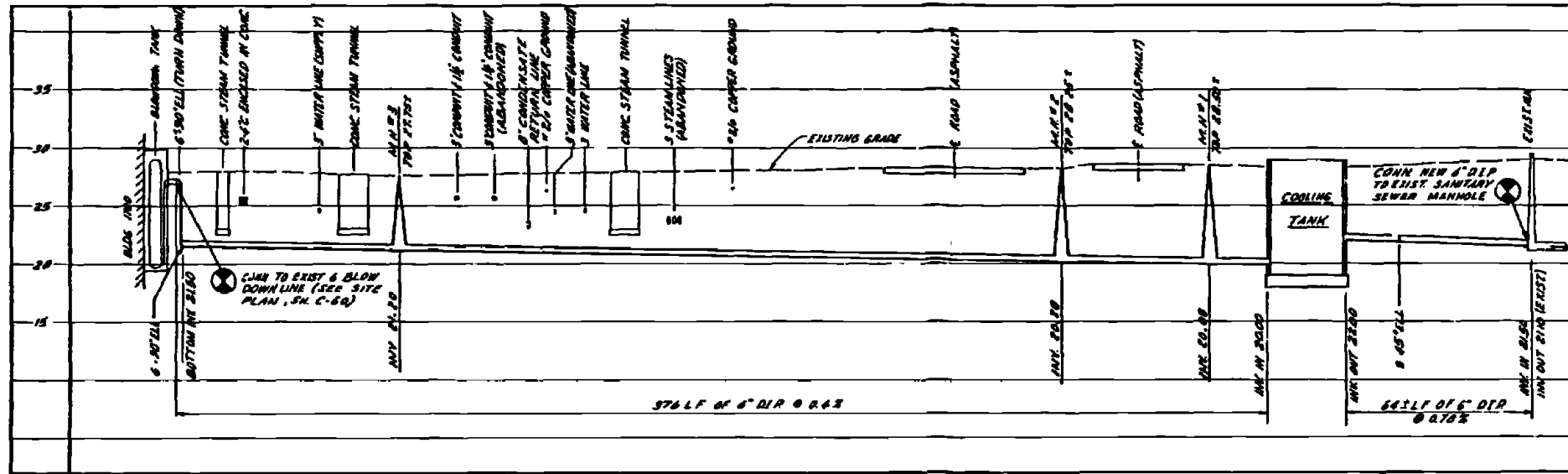
SITE VII-G-2 (FUEL UNLOADING RAMP)
GRADING PLAN
SCALE 1"=20'

- NOTES**
1. ALL PROFILES SEE SHEET C-61.
 2. CONTRACTOR SHALL PROVIDE NEW CONC SLAB WHERE INDICATED FOR FUEL UNLOADING RAMP & CRUSHER RUN DRIVE SHALL ALSO BE PROVIDED WHERE SHOWN.
 3. CONCRETE SLAB - TYPE I SHALL BE PROVIDED ADJACENT TO BLDG. 1736.

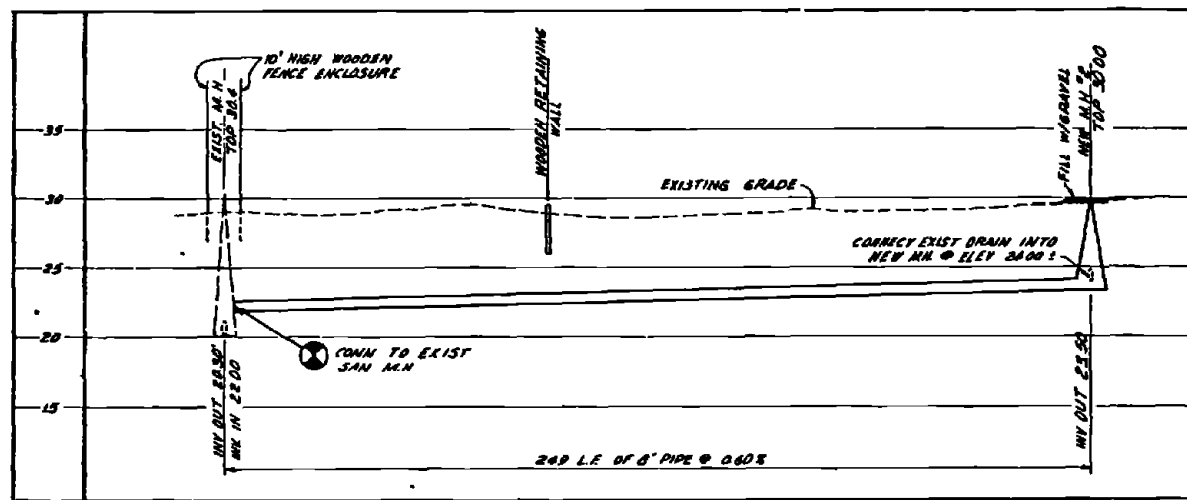
RECORD DRAWING DATE FEB 11 1952	C-60
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION
PROJECT NO. 111917	MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DATE 11/19/51	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
BY [Signature]	SITE PLAN - SITE VII-G-2
CHECKED BY [Signature]	CIVIL
APPROVED BY [Signature]	DATE DRAWING 4052520
	F 10091
	CONTRACT NO. M42470-10 0-8248
	48 AS NOTED SPEC 03 TO 8248



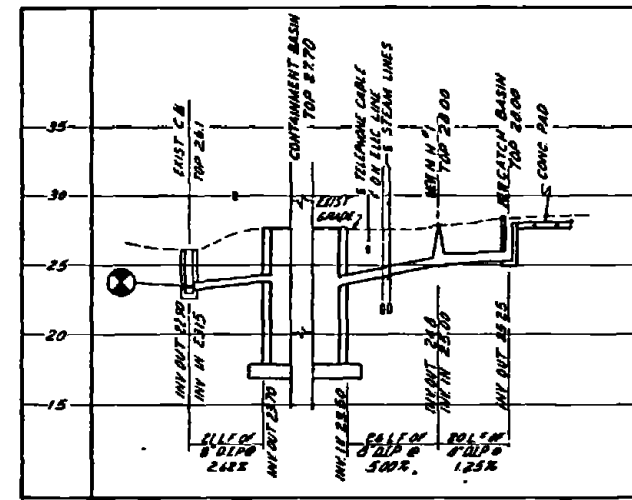
REVISIONS		
NO.	DESCRIPTION	DATE APPROVED



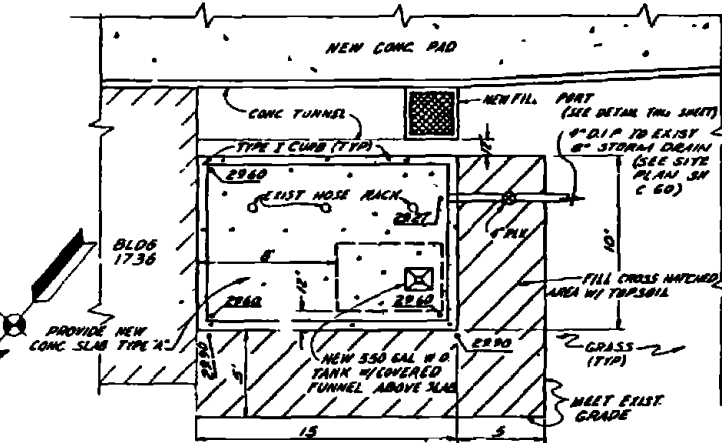
PROFILE - 6" BOILER BLOWDOWN LINE - VII-G-2
SCALE 1"=5' (VERTICAL) 1"=20' (HORIZONTAL)



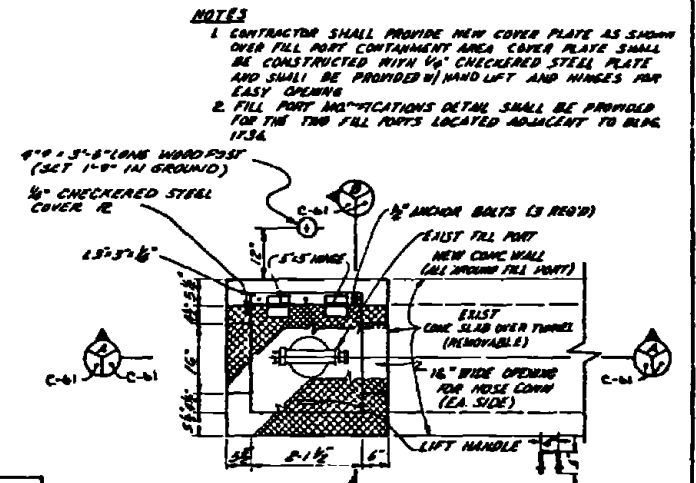
PROFILE - OIL/WATER SEPARATOR DRAIN - VII-G-2
SCALE 1"=5' (VERTICAL) 1"=20' (HORIZONTAL)



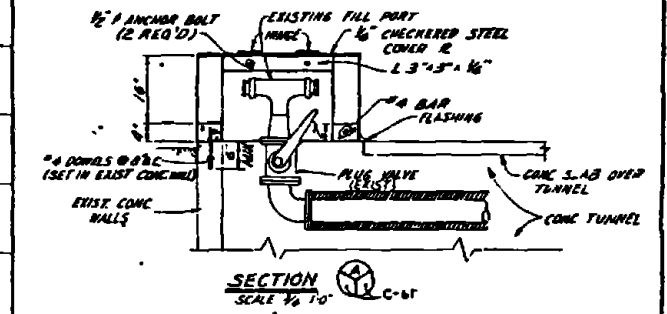
PROFILE - FUEL UNLOADING RAMP DISCHARGE LINE - VII-G-2
SCALE 1"=5' (VERTICAL) 1"=20' (HORIZONTAL)



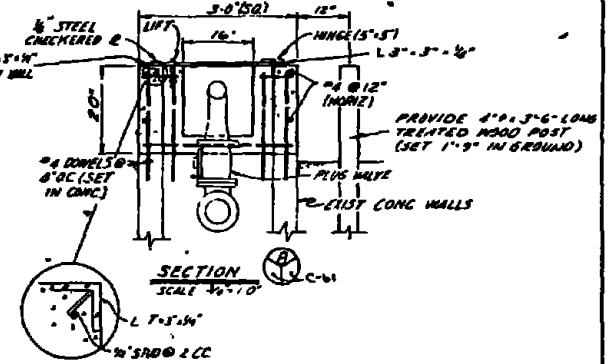
CONCRETE CONTAINMENT SLAB - DETAIL
SCALE 1/4"=1'-0" C-61



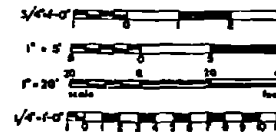
PLAN - FILL PORT MODIFICATION DETAIL (TYP)
SCALE 1/2"=1'-0"



SECTION
SCALE 1/2"=1'-0" C-61



SECTION
SCALE 1/2"=1'-0" C-61

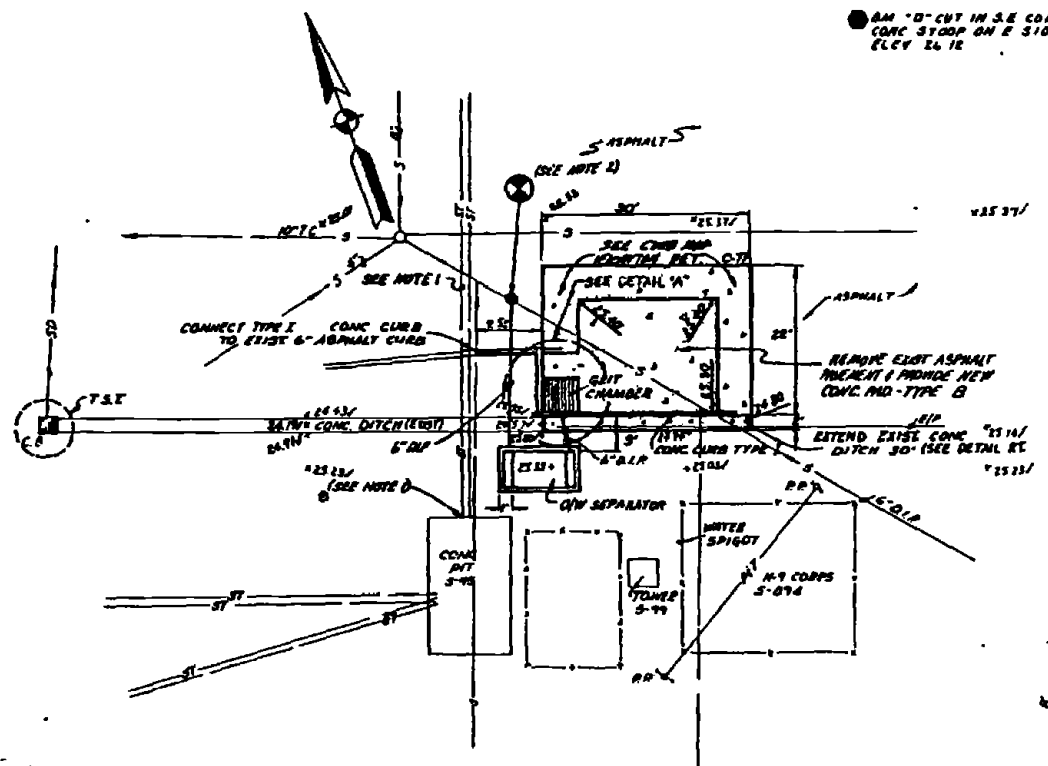


RECORD DRAWING DATE: FEB 11 1981		C-61	
AUSTIN BROCKBROUGH AND ASSOCIATES Civil Engineer 1711 17th St. S.W. Atlanta, GA 30334 PH: (404) 525-1111		DEPARTMENT OF THE NAVY MARINE FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE STATION CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO. 05-18-0263 DRAWING NO. 4052530		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PROFILES & DETAILS - SITE VII-G-2 CIVIL	
APPROVED BY: [Signature]		DATE: 1/11/81	
DRAWN BY: [Signature]		DATE: 1/11/81	
CHECKED BY: [Signature]		DATE: 1/11/81	
APPRECIATION: [Signature]		DATE: 1/11/81	
PROJECT NO. 05-18-0263 DRAWING NO. 4052530		NAVY DRAWING NO. 4052530	
SHEET 61 OF 114		SHEET 61 OF 114	

REV	DESCRIPTION	DATE	APPROVED
0	REVISED AS BUILT	1/10/82	

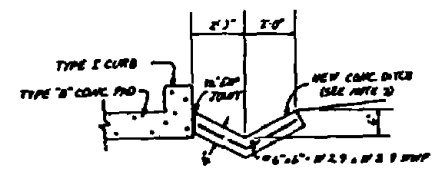
• 8" 0" CUT IN S.E. CORNER OF CONC STOOD ON E SIDE BLDG. #37 ELEV 26.12

- NOTES**
- 1 CONTRACTOR SHALL NOTE EXIT POINTS OF STEAM LINES FROM INSIDE PIT 5-15
 - 2 CONSTRUCT NEW A HOLE OVER EXISTING 6" SANITARY SEWER
 - 3 WHERE NEW DITCH MEETS EXIST DITCH ADJOY THE NEW DITCH TO MATCH INK OF EXIST

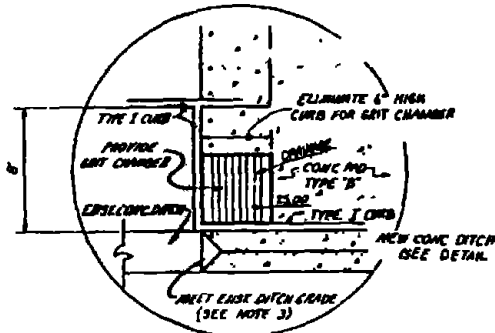


S.C. TOP 25.00
INK OUT 23.50
BOTTOM 21.50

Q/W SEP TOP 26.50
INK IN 22.25
INK OUT 23.00
BOTTOM 20.50

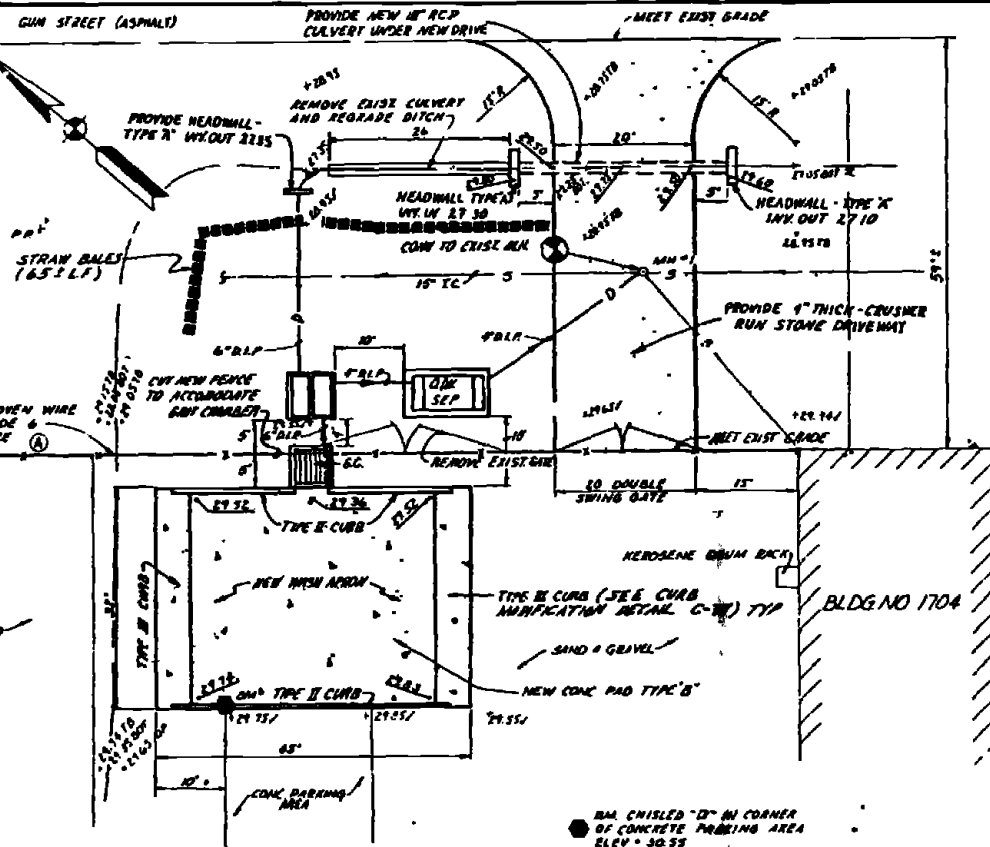


NEW CONC DITCH DETAIL
SCALE 3/4" = 1'-0"



DETAIL 'A'
NO SCALE

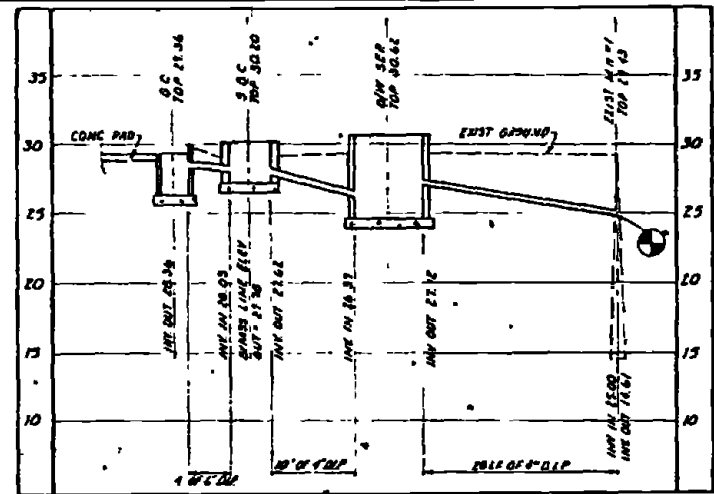
SITE VII-H-2 (1)
LAYOUT & GRADING PLAN
SCALE 1" = 10'



GRIT CHAMBER
TOP 27.36
INK OUT 26.36
BOTTOM 24.36

S.C.
TOP 30.20
INK IN 28.00
INK OUT 27.62
INK OUT (BY-PASS) 27.70
BOTTOM 27.10

Q/W SEP
TOP 27.52
INK IN 26.37
INK OUT 27.12
BOTTOM 26.42

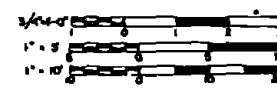


PROFILE - WASH APRON DISCHARGE
SITE VII-H-2 (7)
SCALE VERT = 1", HOR = 1'-10"

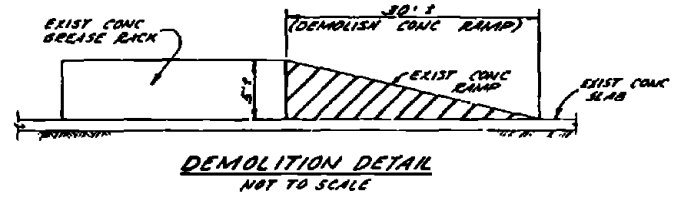
SITE VII-H-2 (7)
LAYOUT & GRADING PLAN
SCALE 1" = 10'

• 8" 0" CUT IN CORNER OF CONCRETE PAVING AREA ELEV = 30.55

RECORD DRAWING DATE FEB 11 1982	C-62
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS	ATLANTIC DIVISION
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
SITE PLANS & PROFILE - SITES VII-H-2(1) & VII-H-2(7)	CIVIL
PROJECT NO. 4052531	DATE 1/10/82
BY [Signature]	CHECKED [Signature]
SCALE AS NOTED UNLESS OTHERWISE SPECIFIED	DATE 1/10/82

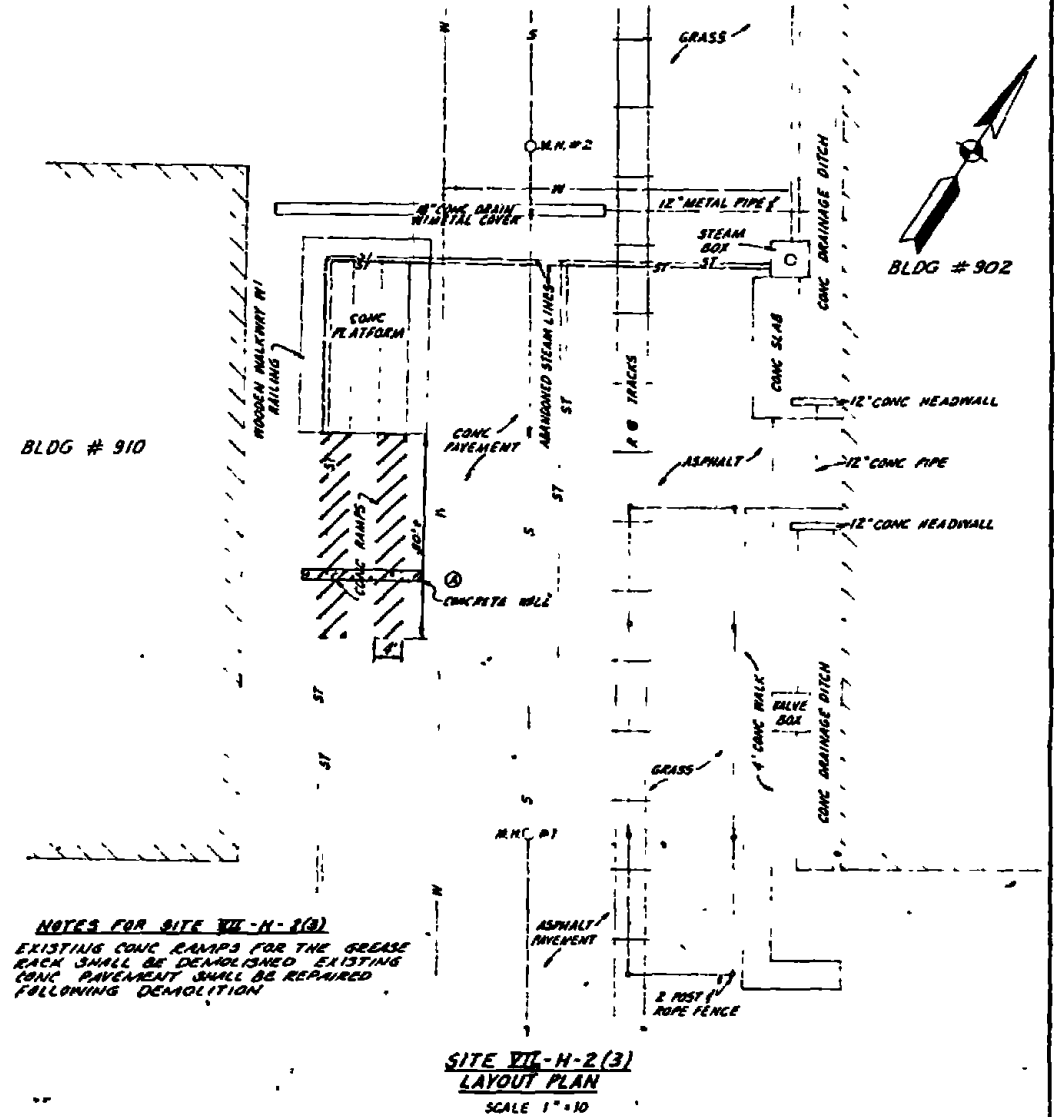
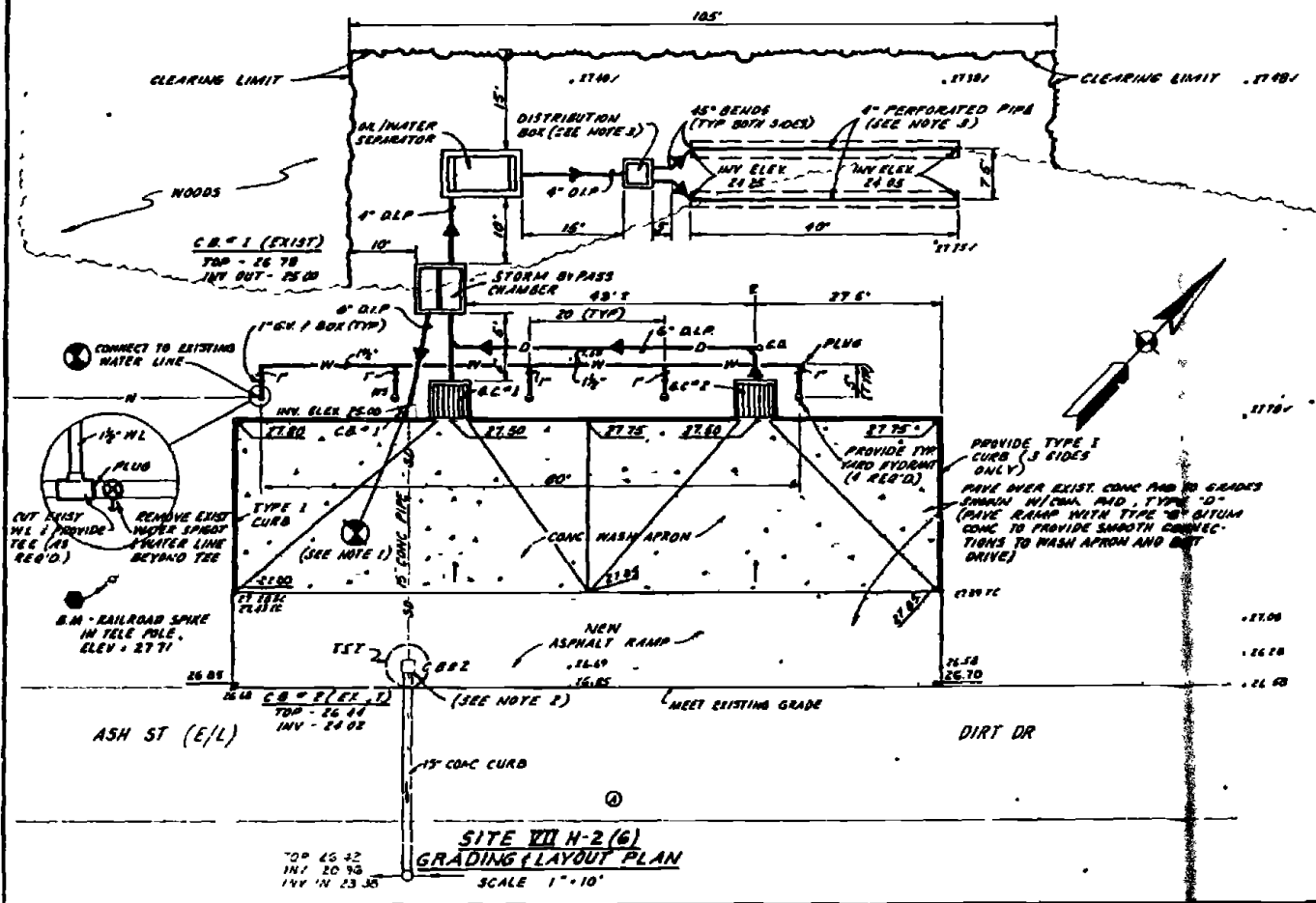


STN	DESCRIPTION	DATE	APPROVED
01	REVISED AS BUILT	12/21	



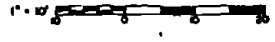
- NOTES FOR SITE VII-H-2(6)**
- CONNECT NEW 6" STORM BYPASS LINE FROM STORM BYPASS CHAMBER TO EXIST 6" 4" CONTRACTOR SHALL REMOVE EXIST C.B. TOP AND RAISE THE TOP OF THE C.B. TO ELEV 28 00 PROVIDE NEW SOLID MAINHOLE TOP
 - CONTRACTOR SHALL RAISE TOP OF EXIST C.B.#2 TO ELEV 26 75
 - FOR TYPICAL DETAILS OF THE DISTRIBUTION BOX AND DRAINFIELD SYSTEM SEE SHEET C-131
 - FOR DETAILS OF TYPICAL YARD HYDRANT SEE SHEET A1-20

GRIT CHAMBER # 1	GRIT CHAMBER # 2	STORM BYPASS CHAMBER	DR/WATER SEPARATOR	DISTRIBUION BOX
TOP - 27 00	TOP - 27 50	TOP - 28 50	TOP - 28 50	TOP - 27 00
INV OUT - 26 00	INV OUT - 26 00	INV IN - 25 75	INV IN - 28 25	INV IN - 24 50
BOTTOM - 24 00	BOTTOM - 24 00	INV OUT (4") - 25 33	INV OUT - 25 00	INV OUT - 24 85
		INV OUT (6") - 25 20	BOTTOM - 24 50	BOTTOM - 24 50

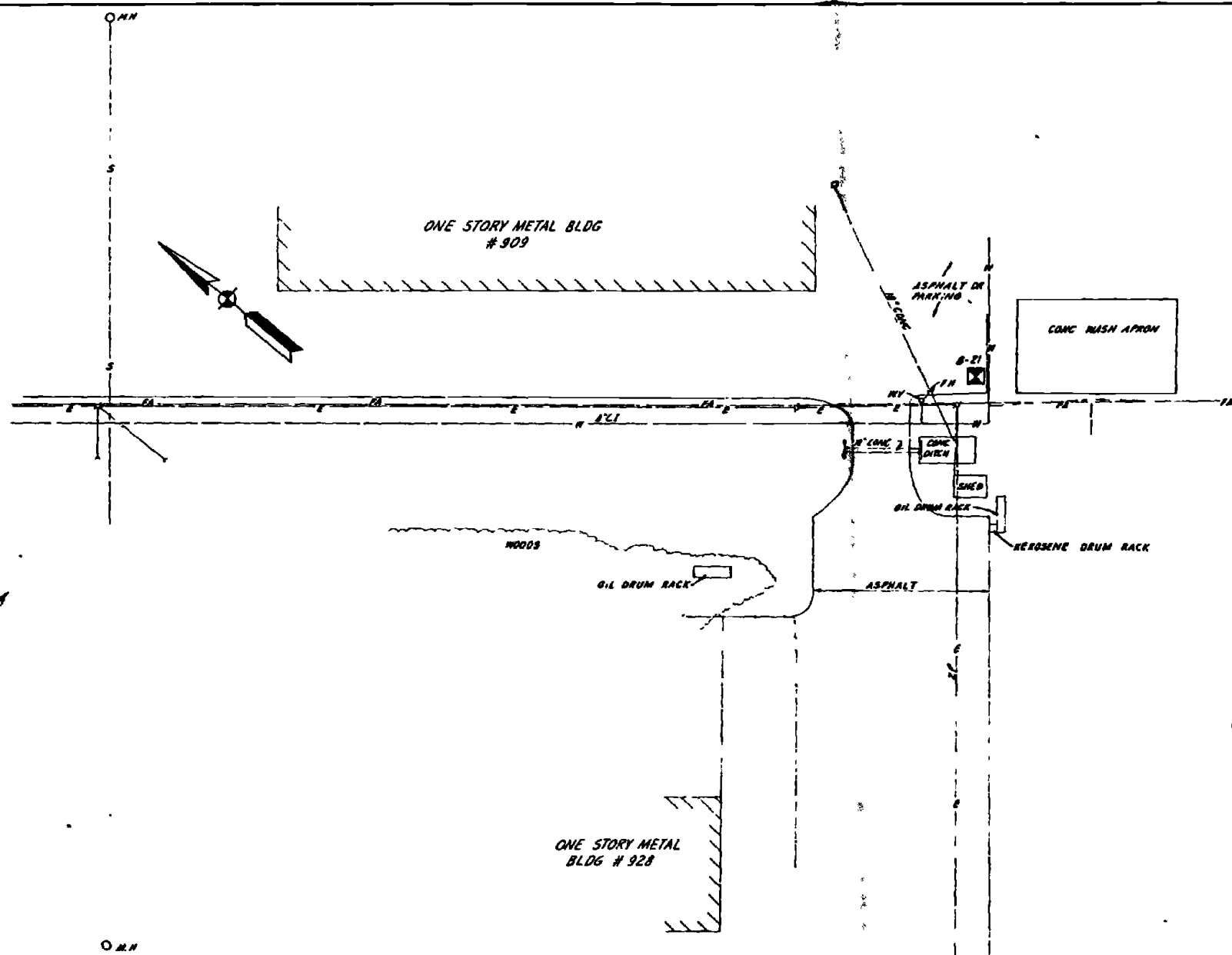


- NOTES FOR SITE VII-H-2(3)**
- EXISTING CONC RAMP FOR THE GREASE RACK SHALL BE DEMOLISHED EXISTING CONC PAVEMENT SHALL BE REPAIRED FOLLOWING DEMOLITION

RECORD DRAWING DATE: FEB 11 1972	C-63
AUSTIN BROOKBROUGH AND ASSOCIATES 1314 S. 10th St. WARRINGTON, VA	ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 12/19/73	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS - SITES VII-H-2(3) & VII-H-2(6)
PROJECT NO: 80091	SCALE: AS SHOWN SHEET 05 78 8260



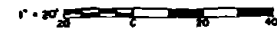
REVISIONS		DATE	APPROVED



NOTES

1. DISASSEMBLE AND REMOVE EXIST STEEL GRAZE RACKS
2. CONTRACTOR SHALL REMOVE THE WATER SPIGOTS SERVING THE EXIST WASH APRON THE WATER LINES SHALL BE PLUGGED BELOW GROUND.

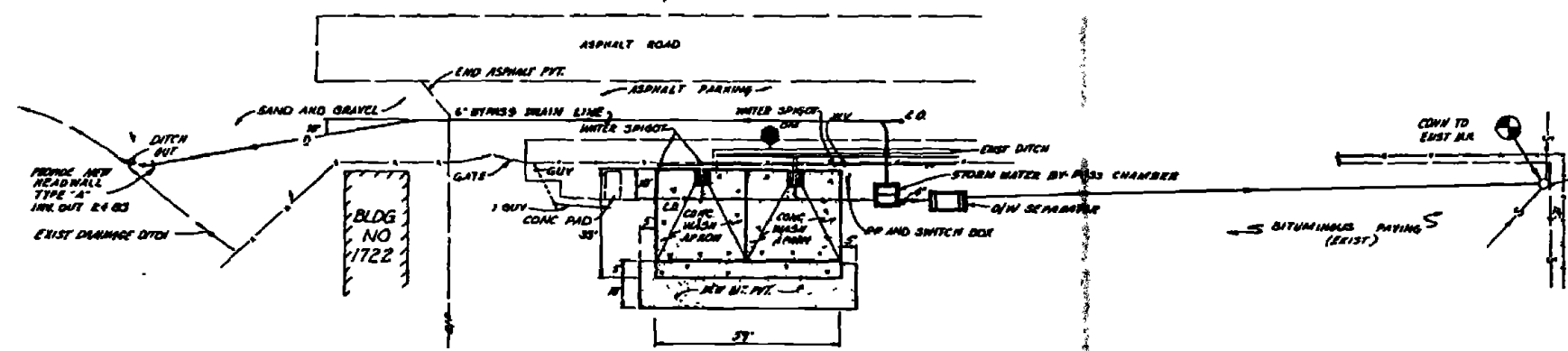
**SITE VII-N-2(5)
LAYOUT PLAN
SCALE - 1" = 20'**



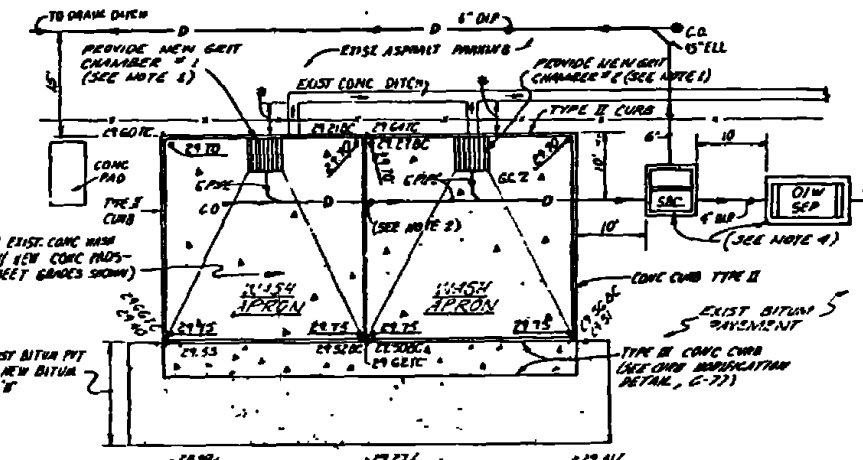
RECORD DRAWING DATE FEB 11 1961		C-64	
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 177 W. 10th St. Durham, N.C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DESIGNED BY: J. L. SHERMAN CHECKED BY: J. L. SHERMAN DATE: 12/18/59		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN - SITE VII-N-2(5) CIVIL	
DRAWN BY: J. L. SHERMAN DATE: 12/18/59		DRAWING NO. 4052533	
APPROVED BY: J. L. SHERMAN DATE: 12/18/59		SHEET 4 OF 13	
PROJECT NO. F 80091		CONTRACT NO. N64410-18-0260	
SCALE AS NOTED		SPEC. 4 OF 13	

REVISION	DATE	APPROVED

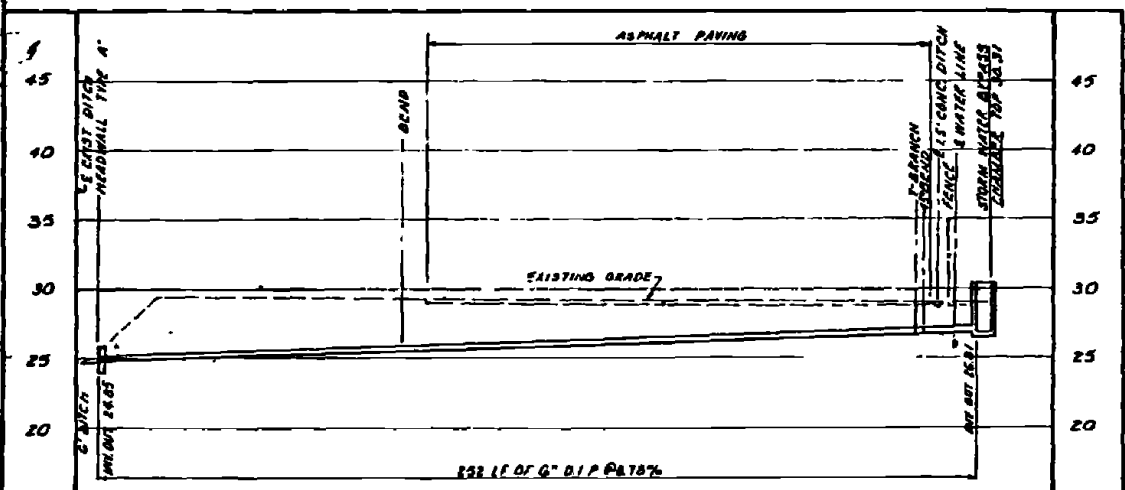
S.W.C. TOP 23.30 INK OUT 23.50
 A.S.P. TOP 23.20 INK OUT 23.50
 S.W.C. TOP 23.37 INK IN 27.64 INK OUT (BT-PASS) INK IN 27.22
 O/W SEP TOP 23.10 INK IN 24.65 INK OUT 25.40 BOTTOM 22.10



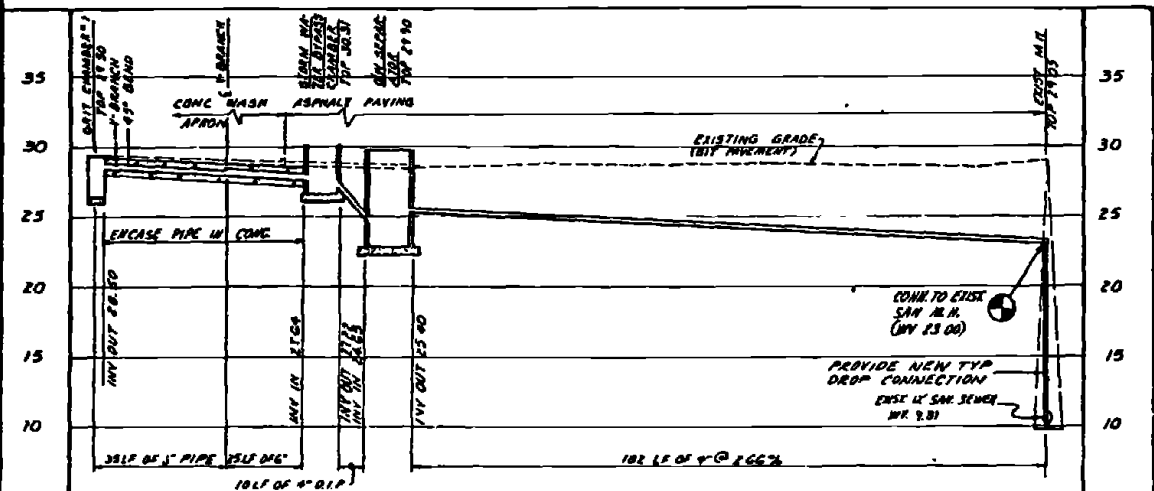
SITE VII-H-2(B) LAYOUT PLAN
SCALE: 1"=20'



LAYOUT & GRADING PLAN-CONC WASH APRON
SCALE: 1"=10'

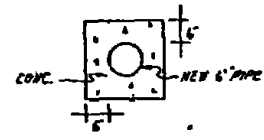


PROFILE - STORM WATER BYPASS LINE
SCALE VERT 1"=5' HOR 1"=20'

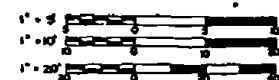


PROFILE - WASH APRON DISCHARGE
SCALE VERT 1"=5' HOR 1"=20'

- NOTES**
1. GUT CHAMBERS SHALL BE MODIFIED FOR THIS AREA TO CONFORM TO THOSE SHOWN FOR THE 900' X 100' AREA (I.E. 6" CURBS AROUND THE STRUCTURE ARE NEEDED) SEE SH 3-4 FOR DETAILS.
 2. NEW 6" PIPE FROM GUT CHAMBERS TO STORM BY-PASS CHAMBER SHALL BE ENCASED IN CONC AS SHOWN IN THE ENCASMENT DETAIL.
 3. EXIST BITUMINOUS PAVEMENT SHALL BE REPAIRED TO ORIGINAL CONDITION FOLLOWING CONSTRUCTION OF STORM BY-PASS CHAMBER AND WATER SEPARATOR, AND DISCHARGE LINE.



CONC ENCASMENT DETAIL
NO SCALE

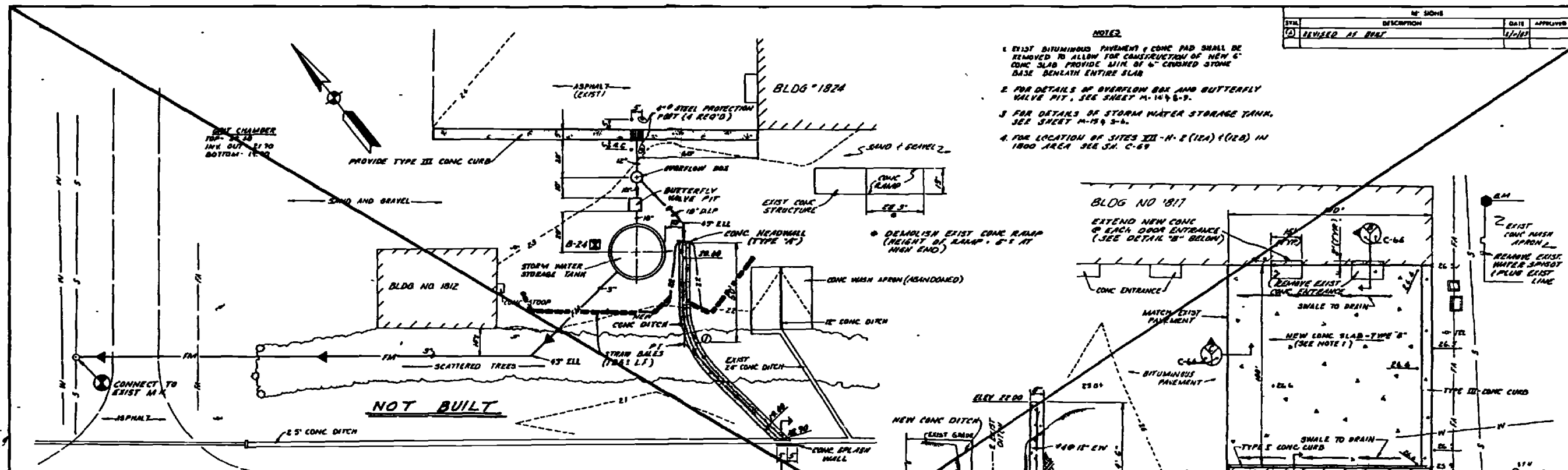


RECORD DRAWINGS DATE: FEB 11 1961		C-65	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS 1315/173		DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEAKE, NORTH CAROLINA	
TITLE: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & PROFILES - SITE VII-H-2(B) CIVIL		DRAWING NO. 4052534 SHEET NO. F 80091 DATE:	
PROJECT NO. 4052534 DRAWING NO. 4052534 SHEET NO. F 80091		CONTRACT NO. 4052534 DATE:	

REV	DESCRIPTION	DATE	APPROVED
1	REVISED AT BENT	1/1/53	

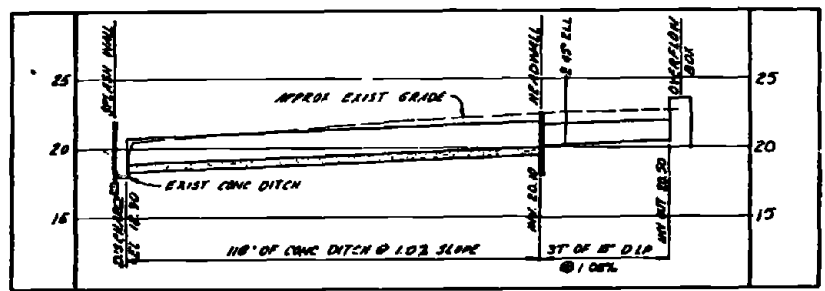
NOTES

- EXIST BITUMINOUS PAVEMENT & CONCRETE PAD SHALL BE REMOVED TO ALLOW FOR CONSTRUCTION OF NEW 6" CONCRETE SLAB PROVIDE 4" MIN OF 6" CRUSHED STONE BASE BENEATH ENTIRE SLAB
- FOR DETAILS OF OVERFLOW BOX AND BUTTERFLY VALVE PIT, SEE SHEET M-1046-9.
- FOR DETAILS OF STORM WATER STORAGE TANK, SEE SHEET M-1545-6.
- FOR LOCATION OF SITES VII-H-2(12A) & (12B) IN 1800 AREA SEE SH. C-69

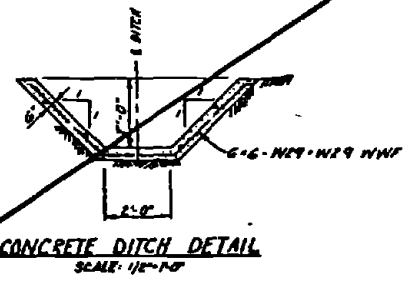


GRADING AND LAYOUT PLAN
SITE VII-H-2(12A)
SCALE 1"=20'

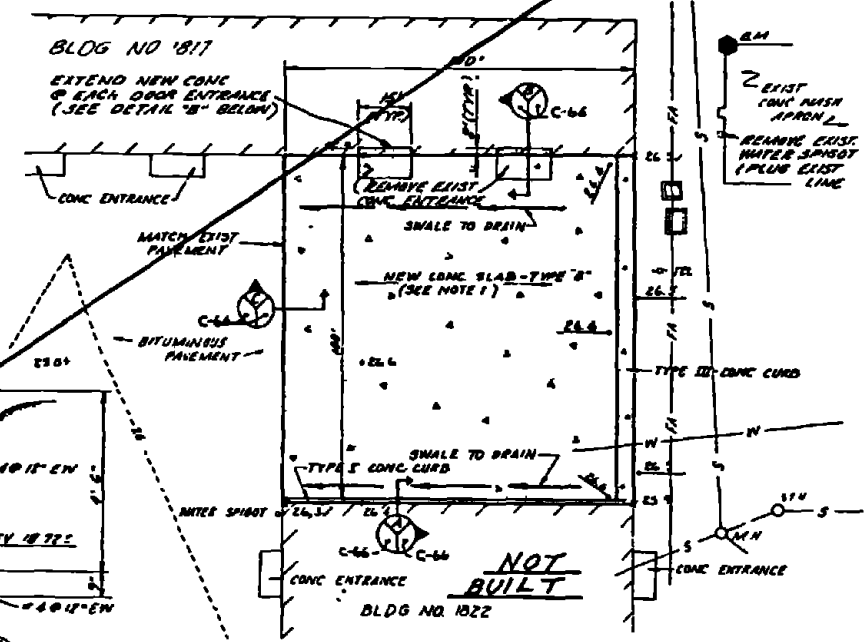
PAVED DITCH CURVE DATA	DESIGNATION	(1)
B	16'	
R	50'	
T	20 11'	
L	39 27'	



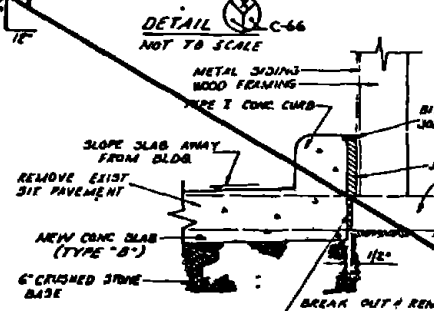
PROFILE - OVERFLOW LINE AND CONCRETE DITCH
SITE VII-H-2(12A)
SCALE VERT 1"=5', HOR 1"=20'



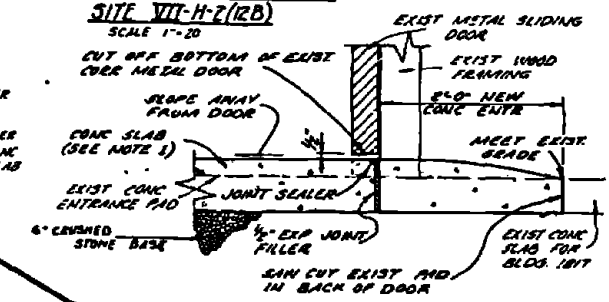
CONCRETE DITCH DETAIL
SCALE 1/2"=1'-0"



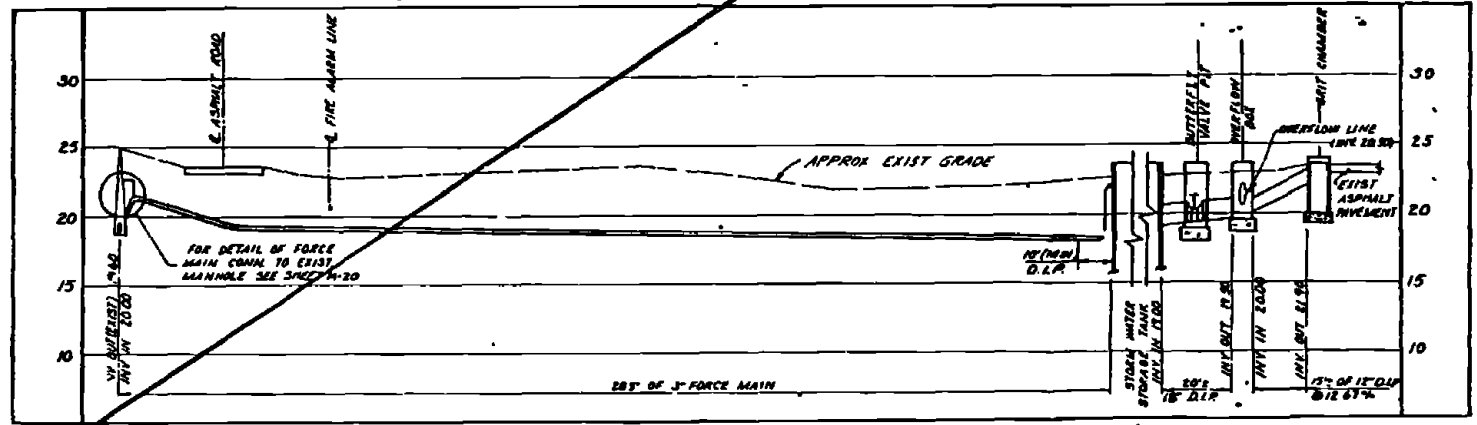
GRADING AND LAYOUT PLAN
SITE VII-H-2(12B)
SCALE 1"=20'



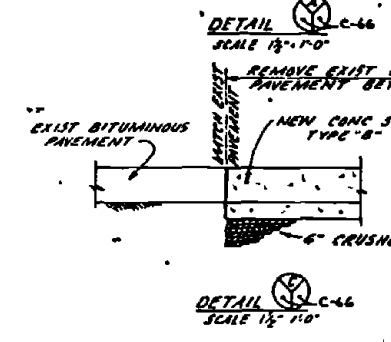
DETAIL C-66
SCALE 1 1/2"=1'-0"



DETAIL C-66
SCALE 1 1/2"=1'-0"



PROFILE - 3" FORCE MAIN
SITE VII-H-2(12A)
SCALE VERT 1"=5', HOR 1"=20'



DETAIL C-66
SCALE 1 1/2"=1'-0"

RECORD DRAWING
DATE FEB 11 1953

C-66

AMSTIN BROOKENBROUGH AND ASSOCIATES
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

ATLANTIC DIVISION

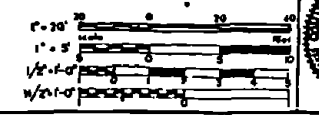
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
SITE PLAN, PROFILES & DETAILS
SITE VII-H-2(12)

4052535

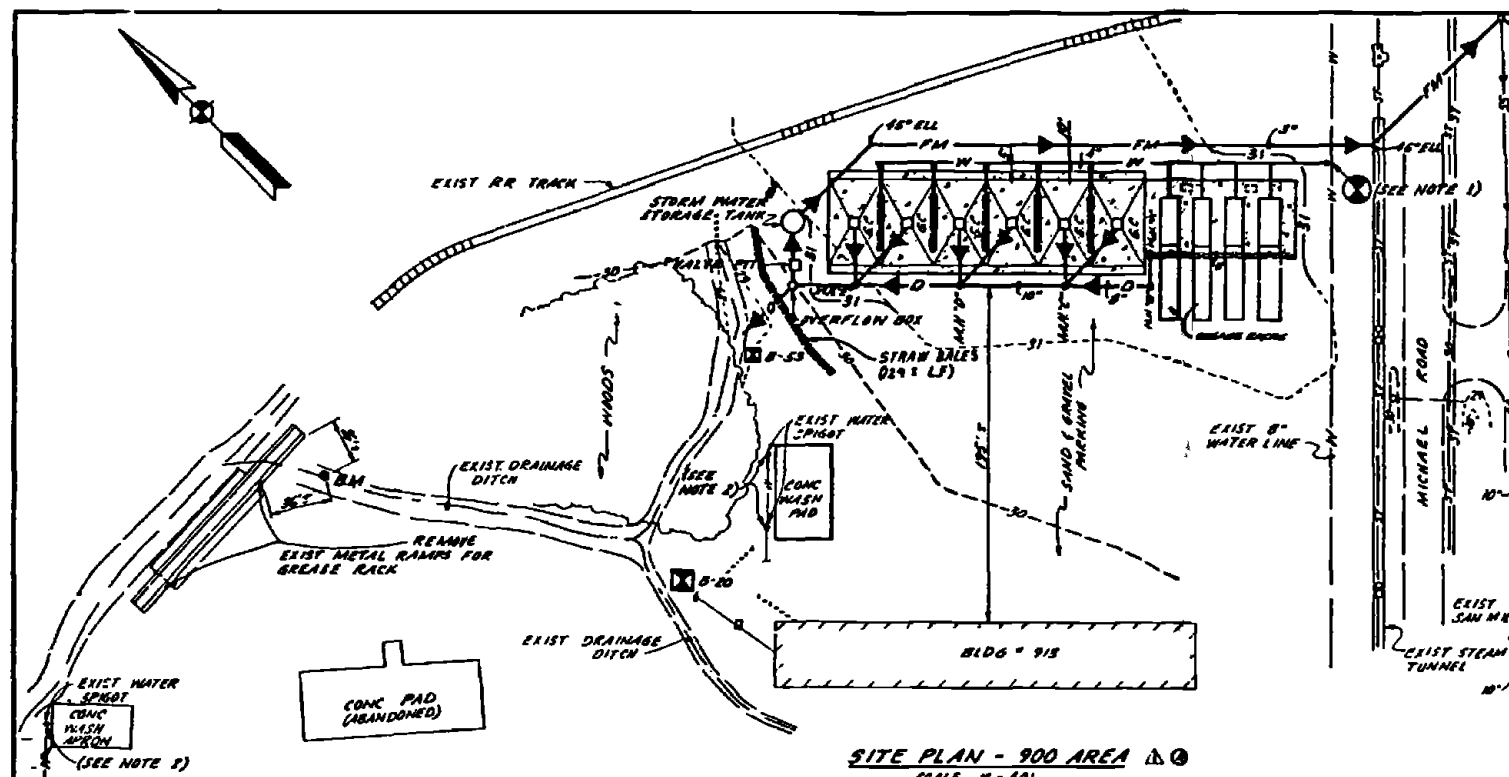
80091

CONTRACT NO. N62670 78 B 9260

SCALE AS SHOWN SHEET 05 TO 0200

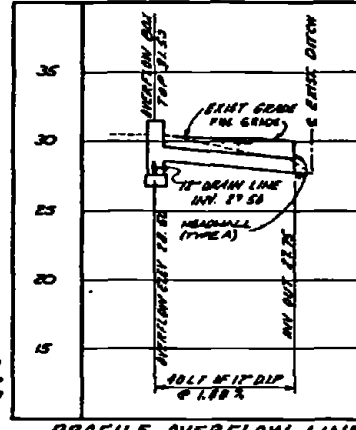


REVISIONS			
SYN	DESCRIPTION	DATE	APPROVED
1	ADDED 4" FORCE MAIN 48" TAPPING SLEEVE		
2	REVISED AS SHOWN	1/24/51	

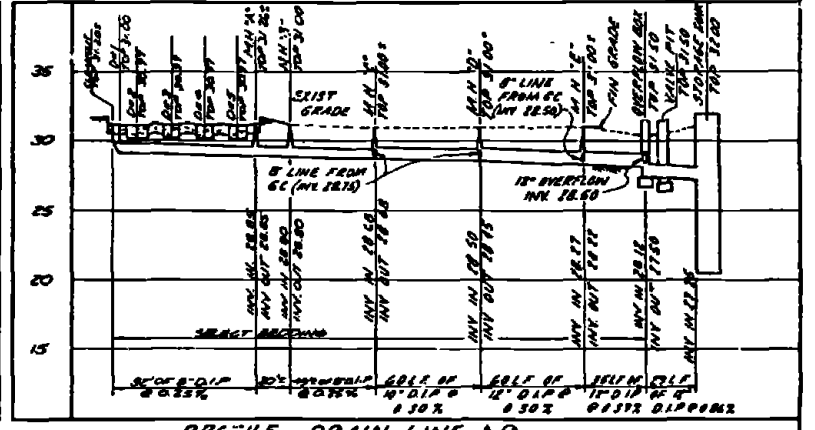


SITE PLAN - 900 AREA
SCALE 1" = 40'

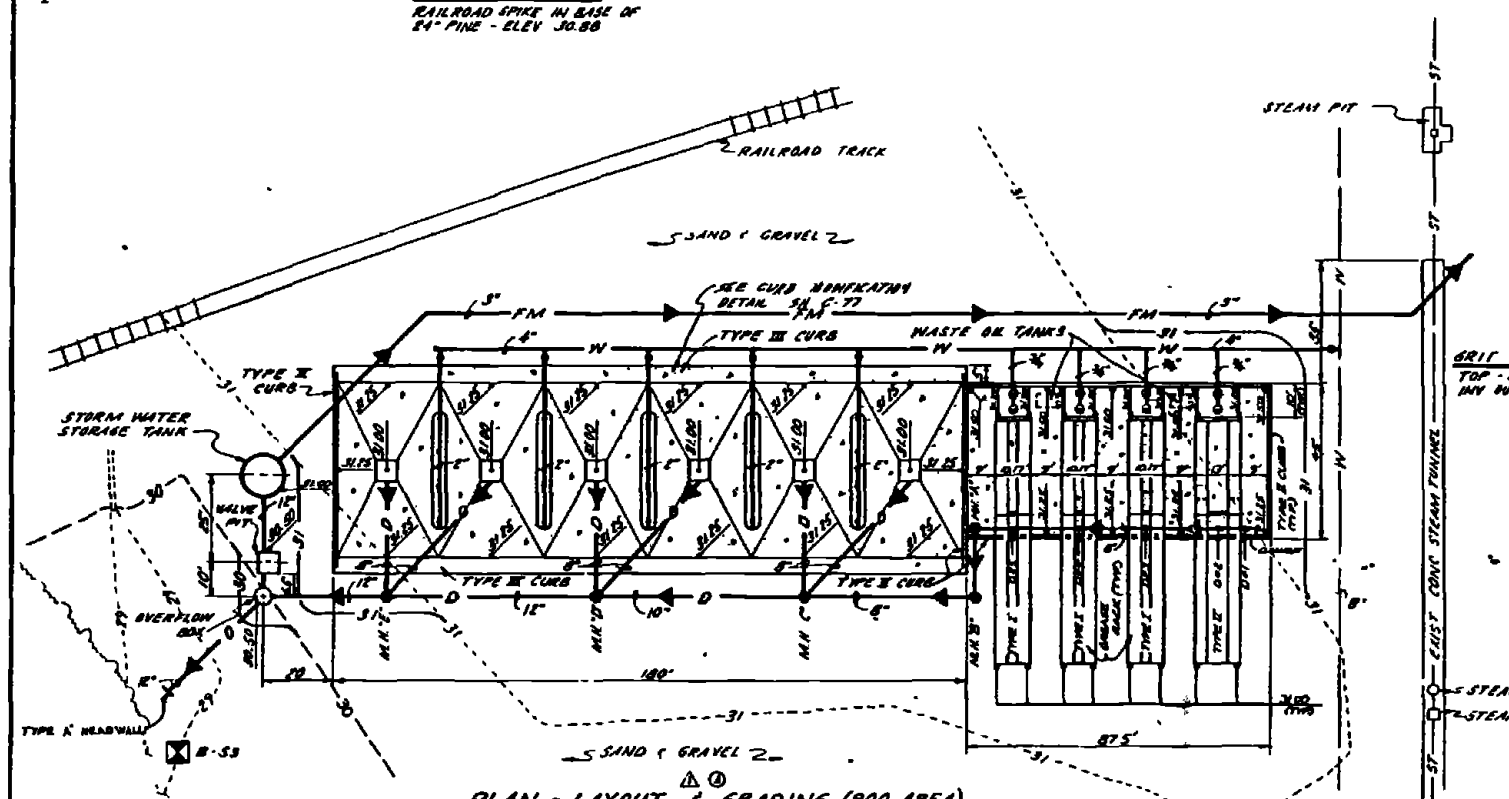
BM - BENCHMARK
RAILROAD SPIKE IN BASE OF
E4" PINE - ELEV 30.88



PROFILE OVERFLOW LINE
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)

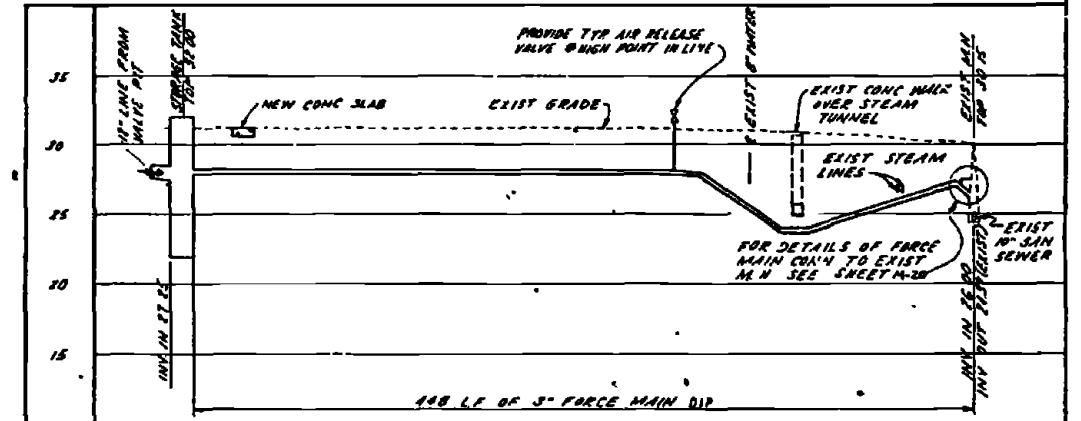


PROFILE DRAIN LINE
SCALE 1" = 5' (VERT)
1" = 40' (HORIZ)



PLAN - LAYOUT & GRADING (900 AREA)
SCALE 1" = 20'

NOTE: DIMENSIONS INDICATE SLAB DRAINS

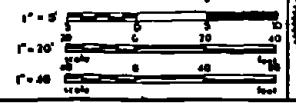


PROFILE FORCE MAIN
SCALE 1" = 5' (VERT)
1" = 40' (HORIZ)

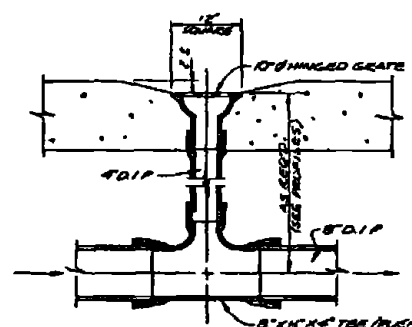
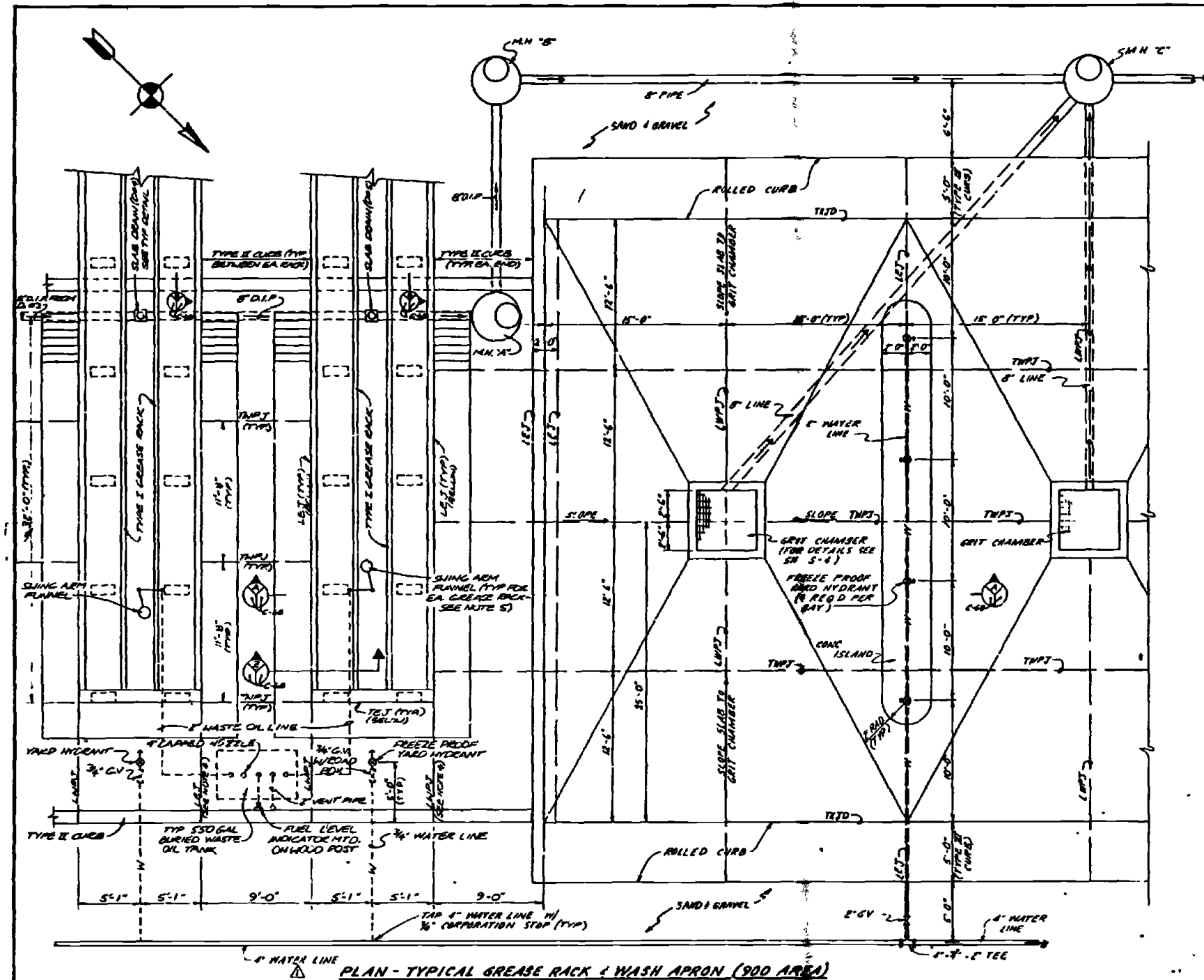
NOTES

- CONNECT NEW 4" WATER LINE TO EXIST 8" WATER LINE WHERE SHOWN WITH 8" x 8" TAPPING SLEEVE AND VALVE
- BE ABOVE THE EXIST WATER SPOUTS AND THE EXIST WASH APRONS PLUS THE WATER LINE BELOW GROUND
- SEE SHEET C-64 FOR ENLARGEMENT DETAILS & DIMENSIONS OF WASH APRONS AND GREASE RACKS
- PROVIDE SELECT BEDDING FOR DRAIN LINE FROM SLAB DRAINS AND GRIT CHAMBERS TO OVERFLOW BOX
- FOR DETAILS OF OVERFLOW BOX AND VALVE PIT SEE SHEETS M-14 & 9.
- FOR DETAILS OF STORM WATER STORAGE TANK SEE SHEETS M-15 & 5-7.
- CONCRETE SLAB FOR GREASE RACK AREA SHALL BE SLOPED TOWARD SLAB DRAINS AS INDICATED. SLAB SHALL BE CONSTRUCTED TO ELIMINATE ANY POONDING
- FOR DETAILS OF TYPICAL SLAB DRAIN, SEE SH. C-65

RECORD DRAWING DATE FEB 11 1951	C-67
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS AND ARCHITECTS 1100 BROADWAY NEW YORK 10, N.Y.	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
PROJECT NO. 110 DRAWING NO. 110-110-110	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES-900 AREA C.V.L.
APPROVED: [Signature] DATE: 1/24/51	CONTRACT NO. 110-110-110 SHEET 110 OF 110

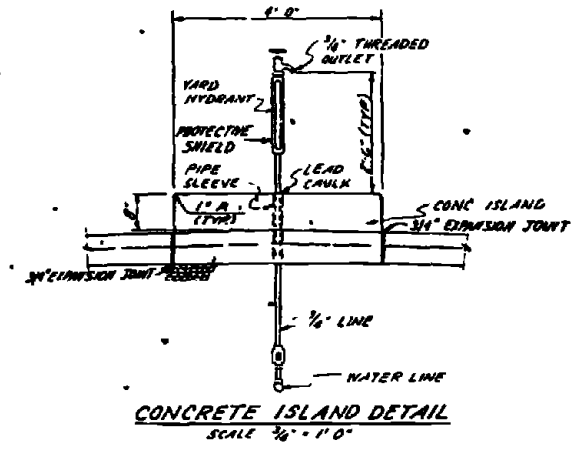
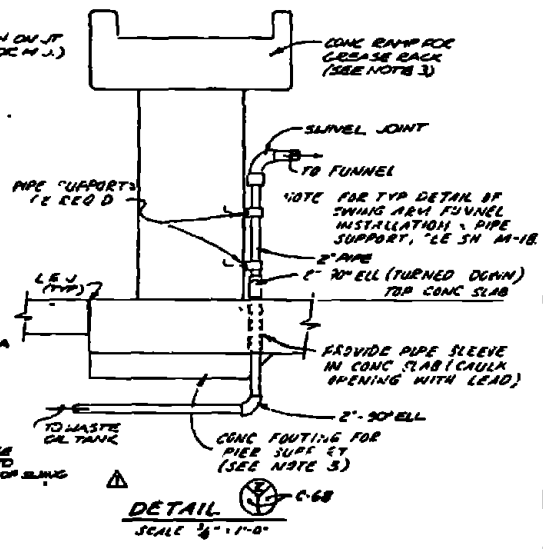


REV	DESCRIPTION	DATE	APPROVED
1	REVISED GREASE RACK MODIFICATIONS		

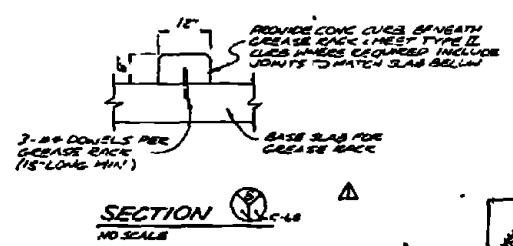
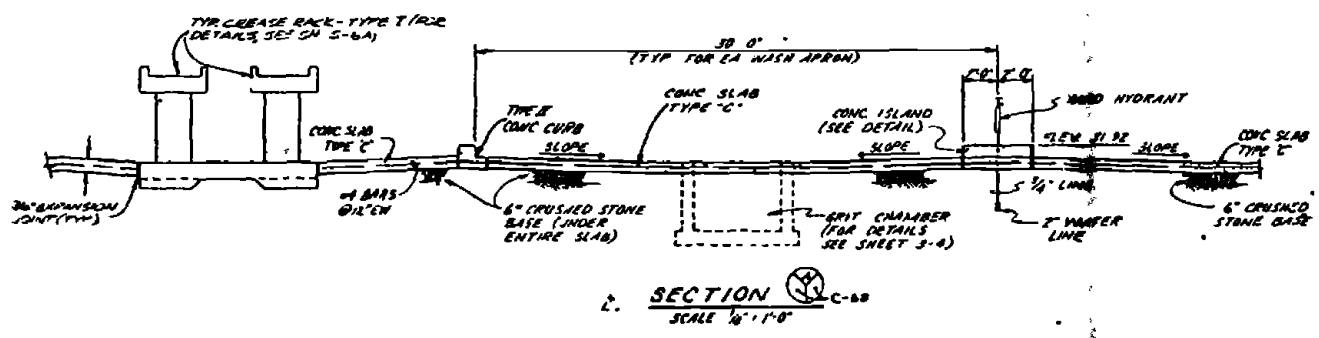


NOTE - SLAB DRAIN SHALL CONSIST OF COATED CAST IRON FLOOR DRAIN IN BOTTOM OUTLET SPIGOT (PLAN VIEW), SQUARE TOP AND ROUND HINGED GRATE.

- NOTES
1. JOINTING SHOWN IS TYPICAL FOR NEW CONC SLAB @ 900 AREA
 2. GRIT CHAMBERS FOR 900 AREA SHALL BE MODIFIED TO INCLUDE HEAVY DUTY GRATING AS SHOWN ON SHEET S-1. NO CURB SHALL BE PROVIDED AROUND GRIT CHAMBERS
 3. FOR TYPT GREASE RACK DETAIL, SEE SHEET S-8A.
- △ JOINTING PATTERN FOR GREASE RACK AREA SHALL BE TYPICAL FOR THAT SHOWN IN PLAN VIEW. A LONGITUDINAL EXPANSION JOINT (LEJ) NOT SHOWN SHALL ALSO BE PROVIDED FOR TYPT II GREASE RACK SIMILAR TO THAT SHOWN FOR GREASE RACK AT FILE LEFT.
- △ LOCATION OF SLING ARM FUNNEL MAY BE ADJUSTED FROM THAT SHOWN IN PLAN VIEW TO ACCOMMODATE VEHICLE OIL DRAINS. LOCATION OF SLING ARM FUNNEL SHALL BE AS DIRECTED BY THE CONTRACTOR'S OFFICE.

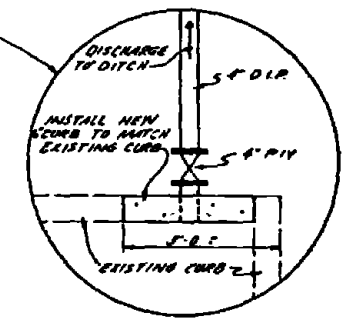
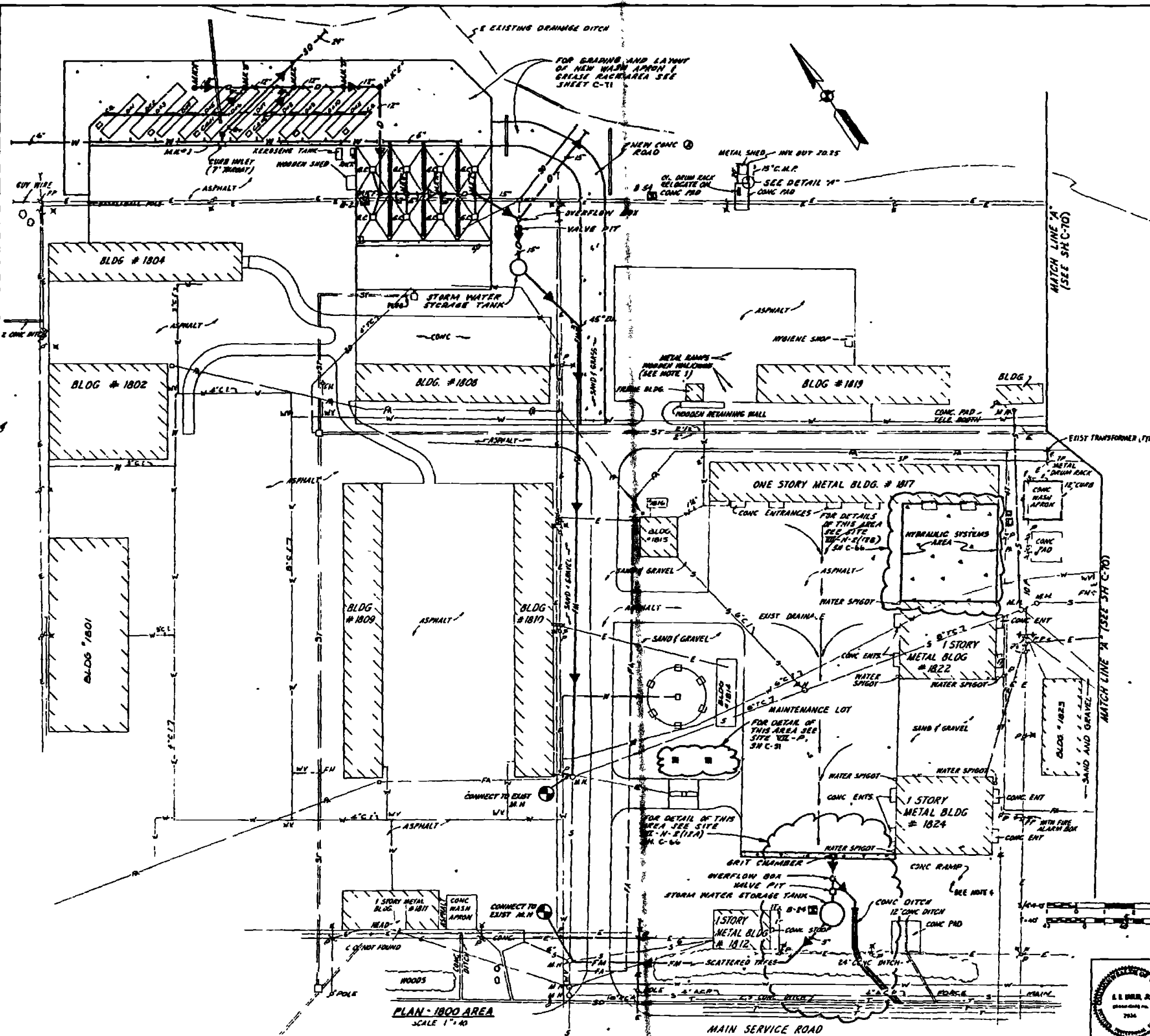


NOTE FOR DESCRIPTION OF JOINTING ABBREVIATIONS. SEE SH C-74



RECORD DRAWING DATE FEB '78	C-68
AUSTIN BROCKENBROUGH AND ASSOCIATES 1111 N. W. 11th St. MIAMI, FL 33136	ATLANTIC DIVISION MARINE CORPS BASE INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PLAN & DETAILS - 900 AREA
APPROVED: [Signature] DATE: 12/1/77	SCALE: 1/2" = 1'-0"
PROJECT NO. 80091	CONTRACT NO. 4952537
DATE: 12/1/77	CONTRACT NO. 4952537
SCALE: 1/2" = 1'-0"	CONTRACT NO. 4952537

DATE	DESCRIPTION	DATE	APPROVED
01/28/67	REVISIONS		
	REVISIONS		



DETAIL "A"
SCALE 1/2" = 1'-0"

- NOTES:**
- 1. CONTRACTOR SHALL REMOVE EXIST STEEL GREASE RACKS AND PARTIALLY BURIED WASTE OIL TANKS. FOR DETAILS OF TYPICAL GREASE RACK SEE SH M 19
 - 2. CONTRACTOR SHALL REMOVE THE WATER SPIGOTS SERVING THE EXIST WASH APRONS. THE WATER LINE SHALL BE PLUGGED BELOW GROUND.
 - 3. FOR DETAILS OF NEW CONSOLIDATED WASH APRONS AND GREASE RACKS FOR THE 1800 AREA, SEE SHEETS C-71 & C-73.
 - 4. DEMOLISH EXIST CONC RAMP SOUTH OF BLDG 1824 AS SHOWN ON SHEET C-66

PLAN - 1800 AREA
SCALE 1" = 40'

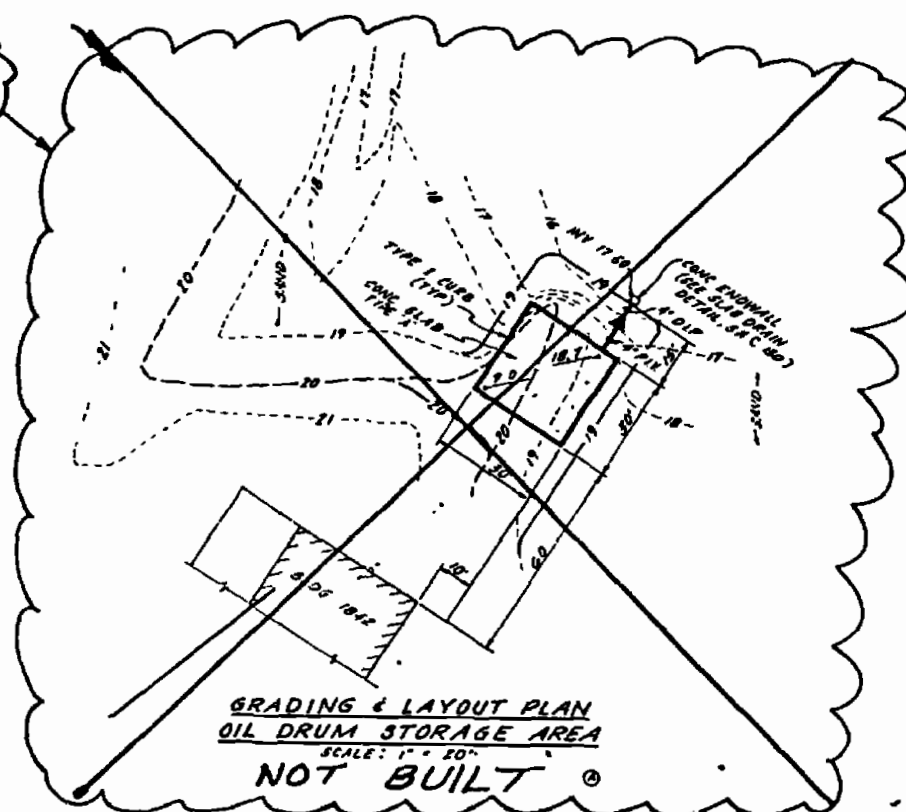
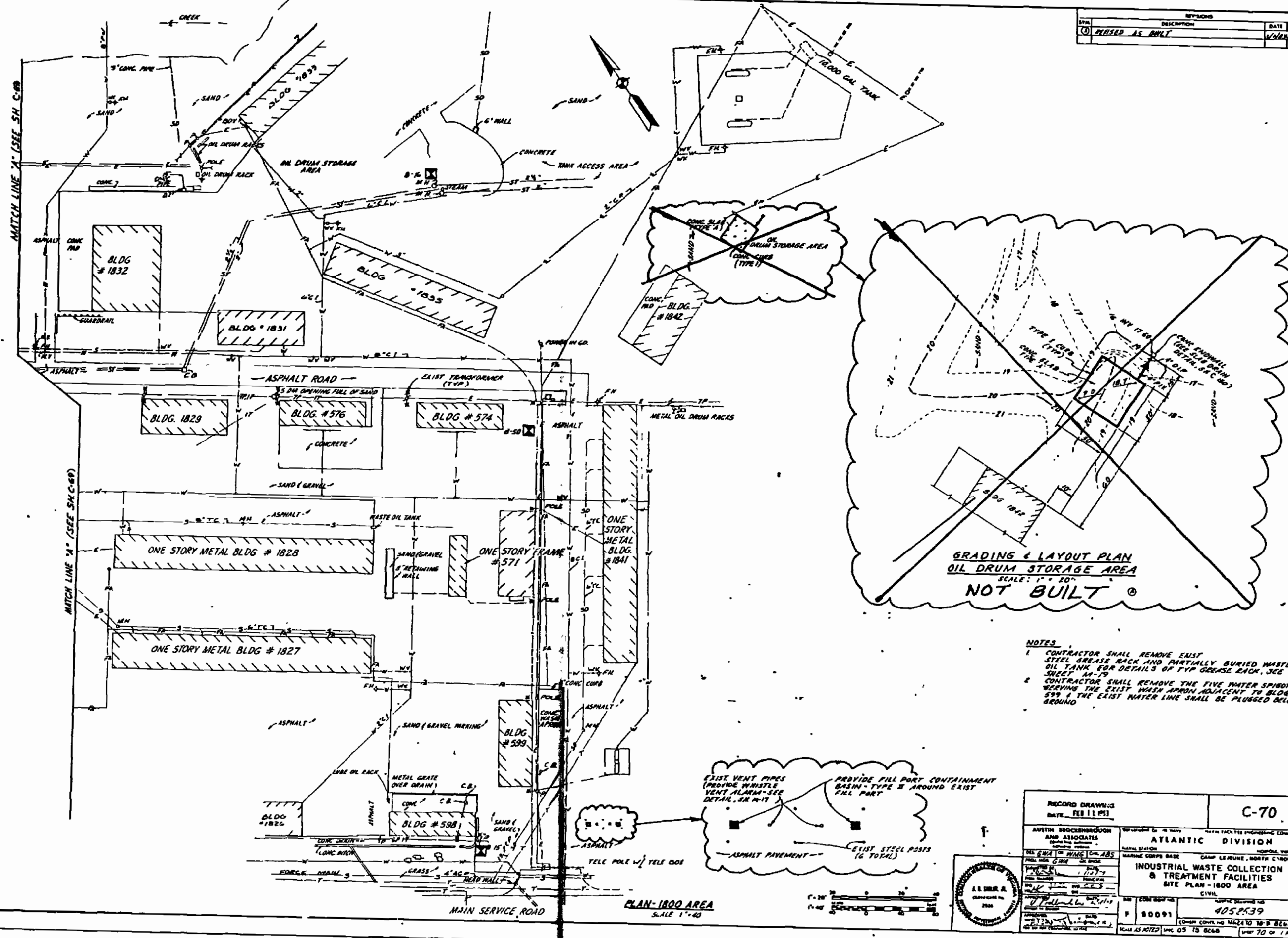
MAIN SERVICE ROAD

RECORD DRAWING DATE FEB 11 1967 C-69

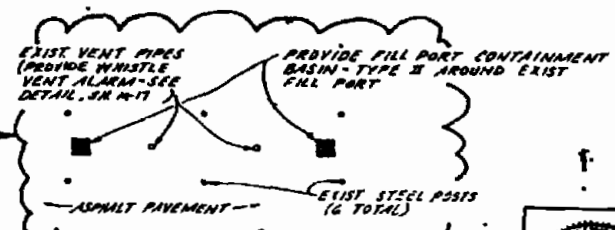
4052539

152539

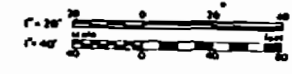
SYN	DESCRIPTION	DATE	APPROVED
0	REVISED AS BUILT		



- NOTES**
- CONTRACTOR SHALL REMOVE EXIST STEEL GREASE RACK AND PARTIALLY BURIED WASTE OIL TANK FOR DETAILS OF TYP GREASE RACK, SEE SHEET M-19
 - CONTRACTOR SHALL REMOVE THE FIVE WATER SPIGOTS SERVING THE EXIST WASH APRON ADJACENT TO BLDG 599 & THE EXIST WATER LINE SHALL BE PLUGGED BELOW GROUND



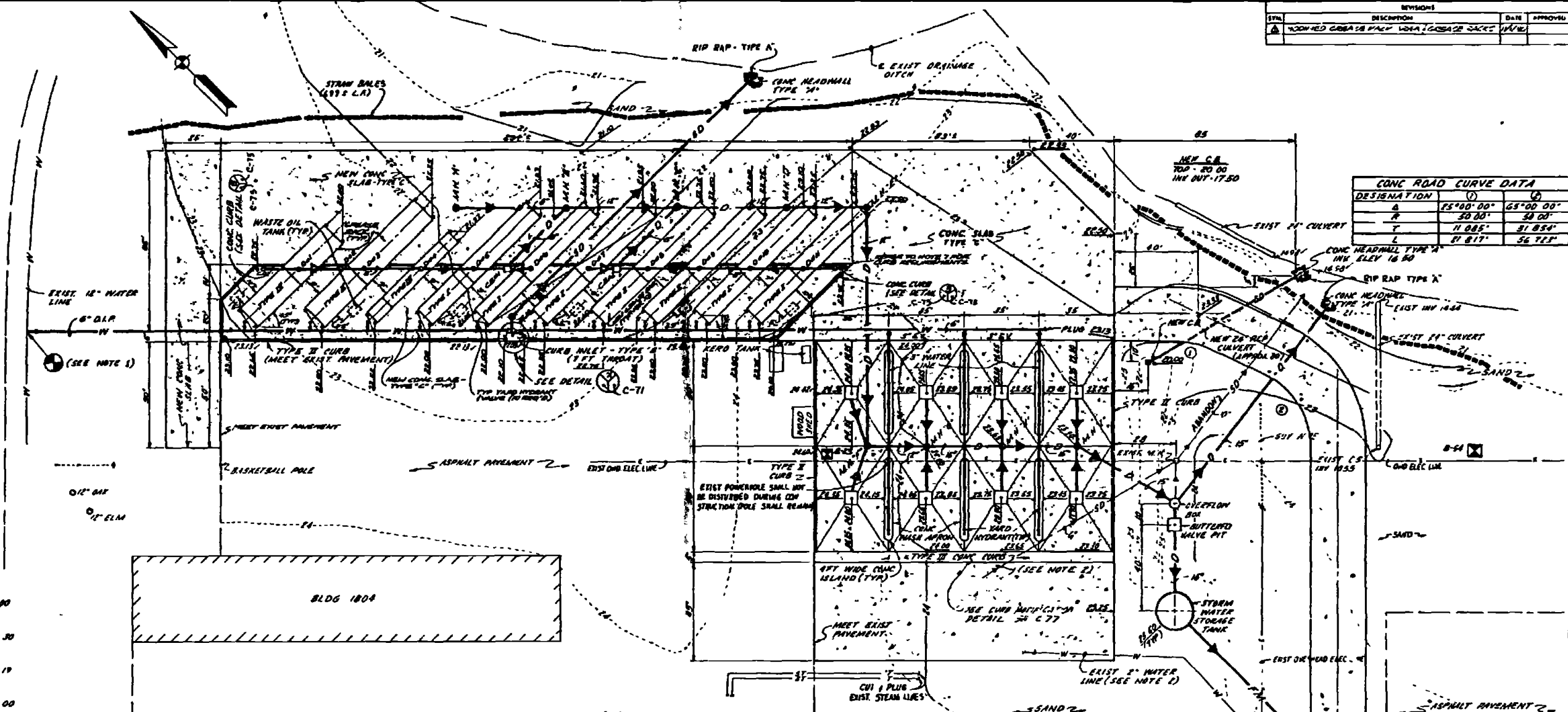
**PLAN-1800 AREA
SCALE 1"=40'**



RECORD DRAWING DATE FEB 11 1953		C-70	
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 1117 1/2 W. BROAD ST. RICHMOND, VA.		ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN - 1800 AREA		CIVIL PROJECT NUMBER 4052539	
F 80091		SCALE AS NOTED (SHEET 05 TO 06) SHEET 70 OF 112	

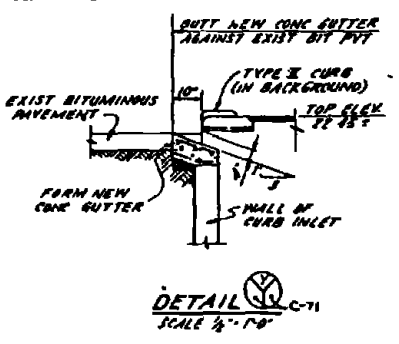
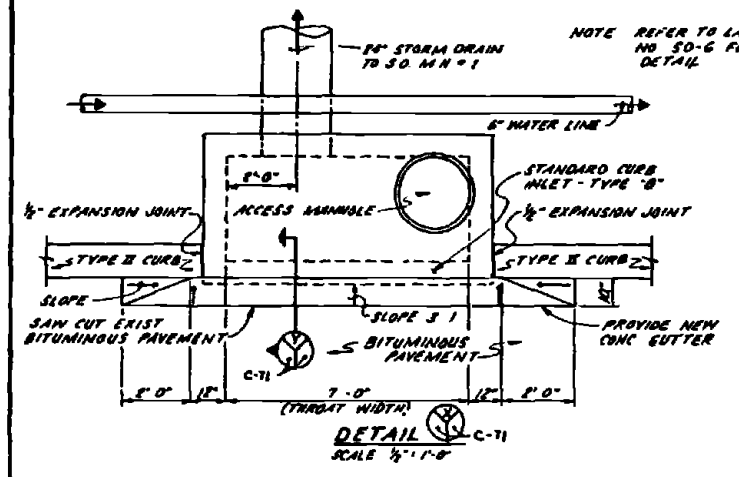
REV	DESCRIPTION	DATE	APPROVAL
1	ADDED CURB TO PAVEMENT	1/15/54	

CONC ROAD CURVE DATA	
DESIGNATION	(1) (2)
Δ	25°00'00" 65°00'00"
R	50.00' 50.00'
T	11.085' 31.854'
L	21.817' 56.727'



GRADING & LAYOUT PLAN - GREASE RACK & WASH APRONS (1800 AREA)
SCALE 1" = 20'

- C.B.#1
TOP - 22.16
INV OUT - 19.00
- C.B.#2
TOP - 21.65
INV OUT - 19.30
- C.B.#3
TOP - 22.19
INV OUT - 19.19
- C.B.#4
TOP - 22.75
INV OUT - 19.00



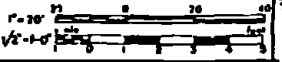
- NOTES:**
- CONNECT NEW 6" WATER LINE TO EXIST 12" LINE WHERE SHOWN WITH 6" x 12" MECHANICAL JOINT TAPPING SLEEVE AND VALVE
 - CONTRACTOR SHALL REMOVE EXIST CONC WASH APRON EXIST STEAM LINES AND DRAIN LINES SERVING THE WASH APRON SHALL BE PLUGGED AND ABANDONED THE EXIST 2" WATER LINE SERVING THE APRON SHALL BE PLUGGED BELOW GROUND AND ANY YARD HYDRANTS REMOVED
 - FOR DETAILS OF OVERFLOW BOX AND BUTTERFLY VALVE PIT SEE SHEETS M-14 & 9-9.
 - FOR DETAILS OF STORM WATER STORAGE TANK SEE SHEET M-15 & 5-7.
 - NEW CONCRETE SLAB FOR THE AREA SHOWN ABOVE SHALL BE TYPE C AS DETAILED ON SHEET C-187. FOR LAYOUT PLAN SEE SHEET C-74.
 - CONCRETE SLAB FOR GREASE RACK AREA SHALL BE SLOPED TOWARDS CURB DOWNS AS INDICATED SLAB SHALL BE CONSTRUCTED TO ADEQUATE ANY PONDING
 - CONCRETE CURB FOR GREASE RACK SHALL BE CONTINUOUS ACROSS ENTIRE LENGTH OF GREASE RACK LINGER CURB INTERSECTIONS WITH COLLUMS SUPPORTING RACK CURB SHALL GO TO EACH SIDE OF COLLUM IN EXPANSION JOINT

FOR DETAIL OF JOINT BETWEEN CONCRETE SLAB AND REINFORCING OF EACH GREASE RACK RAMP, SEE DETAIL C-71

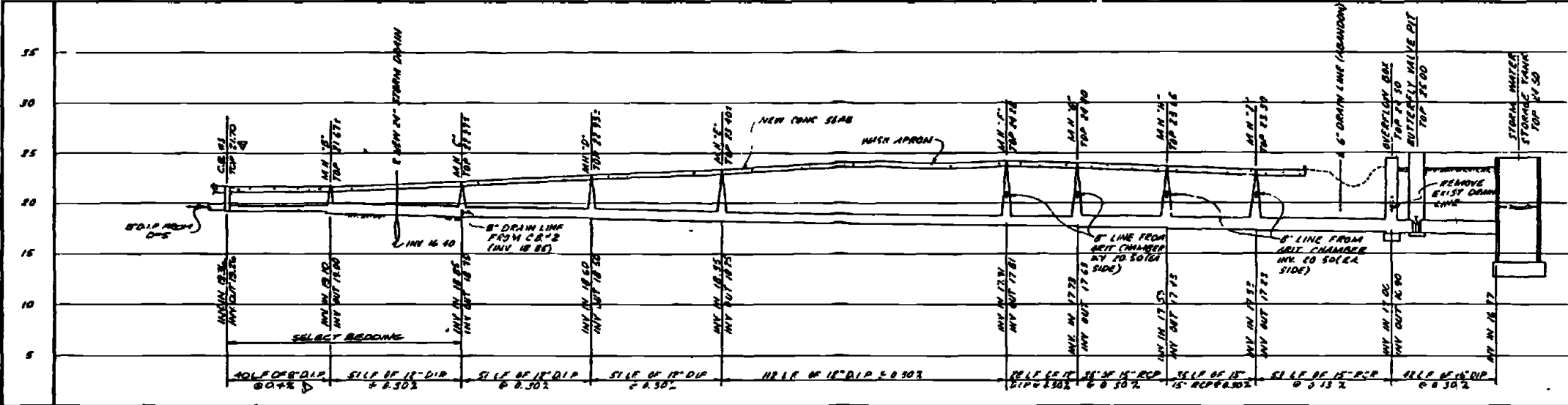
NOTE CONTRACTOR SHALL MODIFY THE ROAD SECTION AT ENDS TO MEET EXIST PAVEMENT AND NEW BODIES SHOWN

CONCRETE ROAD SECTION
NO SCALE

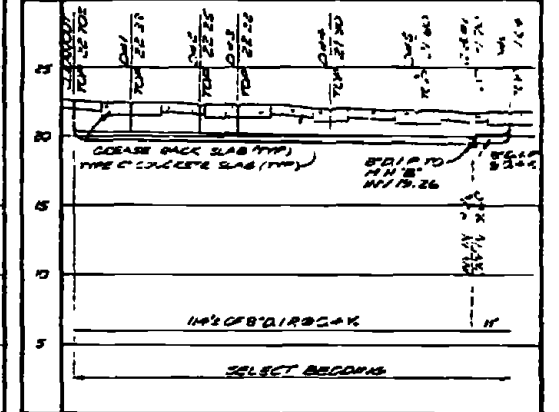
RECORD DRAWING DATE: FEB 11 1954	C-71
AMITH BROCKENBROUGH AND ASSOCIATES INCORPORATED 1100 N. W. 10th St. FORT WORTH, TEXAS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION PENSACOLA HEADQUARTERS CAMP LEJEUNE, NORTH CAROLINA
DESIGNED BY: J. J. SMITH CHECKED BY: J. J. SMITH DATE: 1/15/54	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES ORIGINS & LAYOUT PLAN - 1800 AREA CIVIL
PROJECT NO. 182470-78-B-2248 SHEET NO. 71 OF 120	4052540
APPROVED: [Signature]	152540



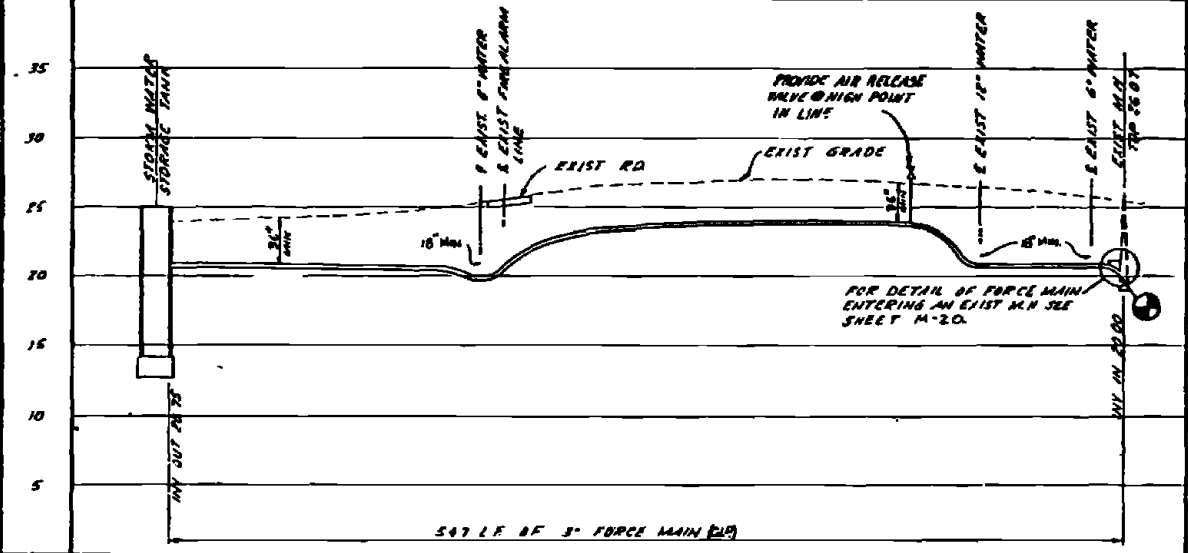
REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
1	ADDED COARSE RACK SLAB DRAINAGE SYSTEM		



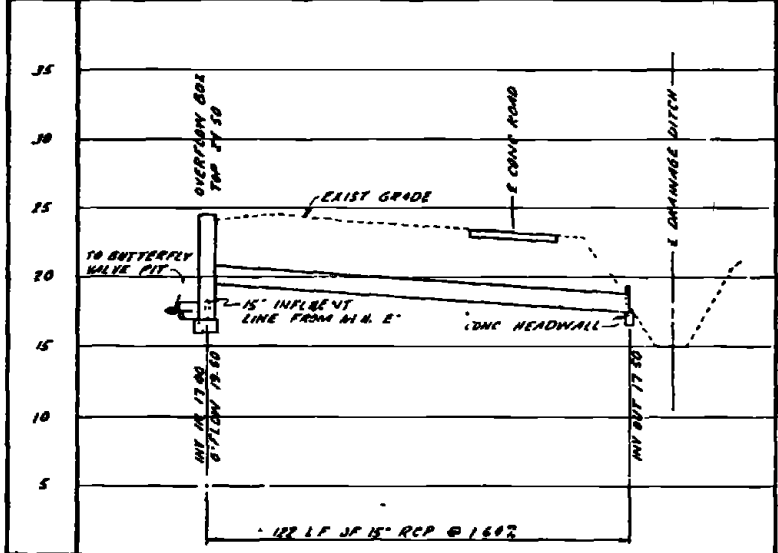
PROFILE: DRAIN LINE (1800 AREA)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



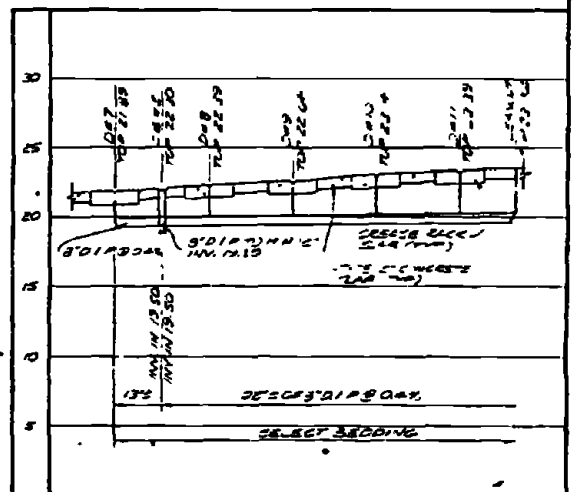
PROFILE: SLAB DRAIN LINE (D=1 thru D=6)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



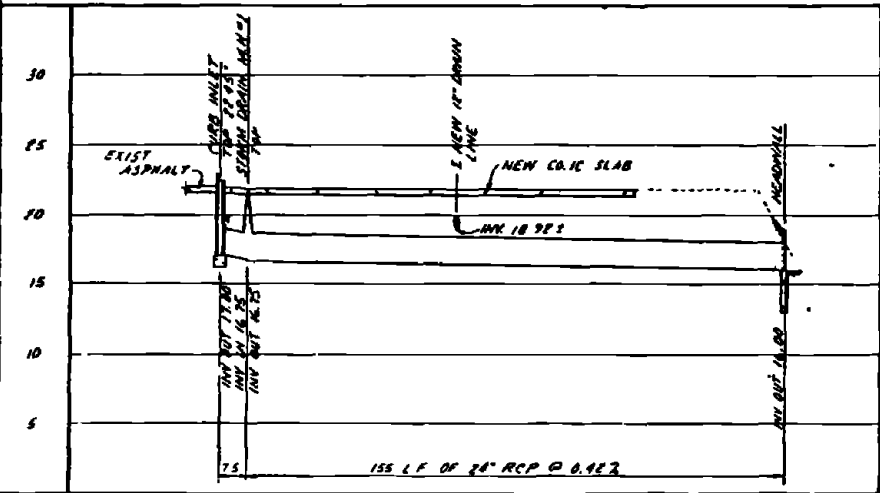
PROFILE: FORCE MAIN (1800 AREA)
SCALE 1" = 5' (VERT)
1" = 40' (HORIZ)



PROFILE: 15" OVERFLOW LINE (1800 AREA)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)

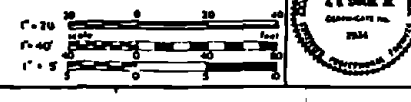


PROFILE: SLAB DRAIN LINE (D=7 thru D=11)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)

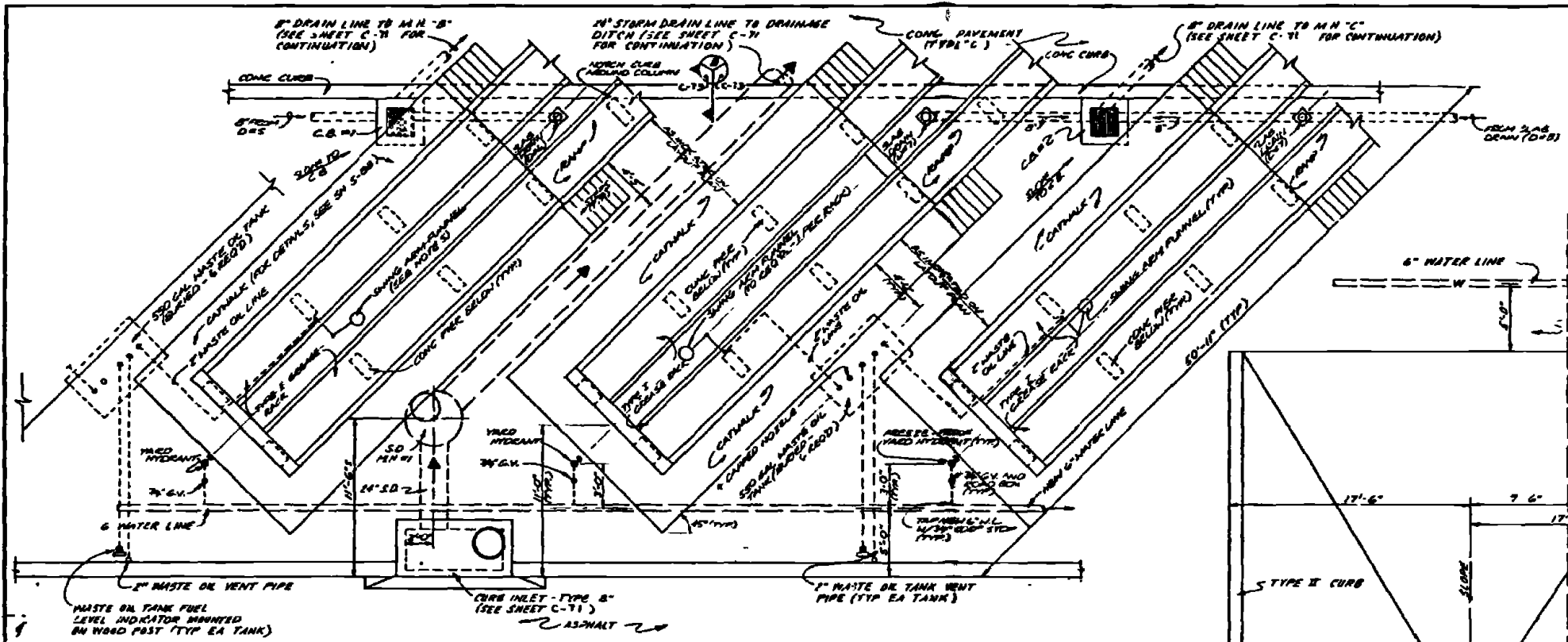


PROFILE: NEW 24" STORM DRAIN LINE
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)

RECORD DRAWING DATE FEB 11 1971		C-72	
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 112 SOUTH MAIN STREET DURHAM, N.C. 27601		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA NORFOLK, VIRGINIA	
PROJECT NO. 4052591		DRAWING NO. 4052591	
SHEET NO. 17 OF 17		DATE 1/11/71	

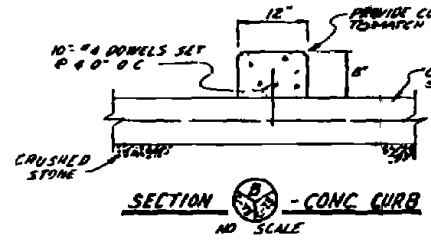


NO.	REVISIONS	DATE	APPROVED
1	REVISED PLAN - TYPICAL GREASE RACK	11/7/68	

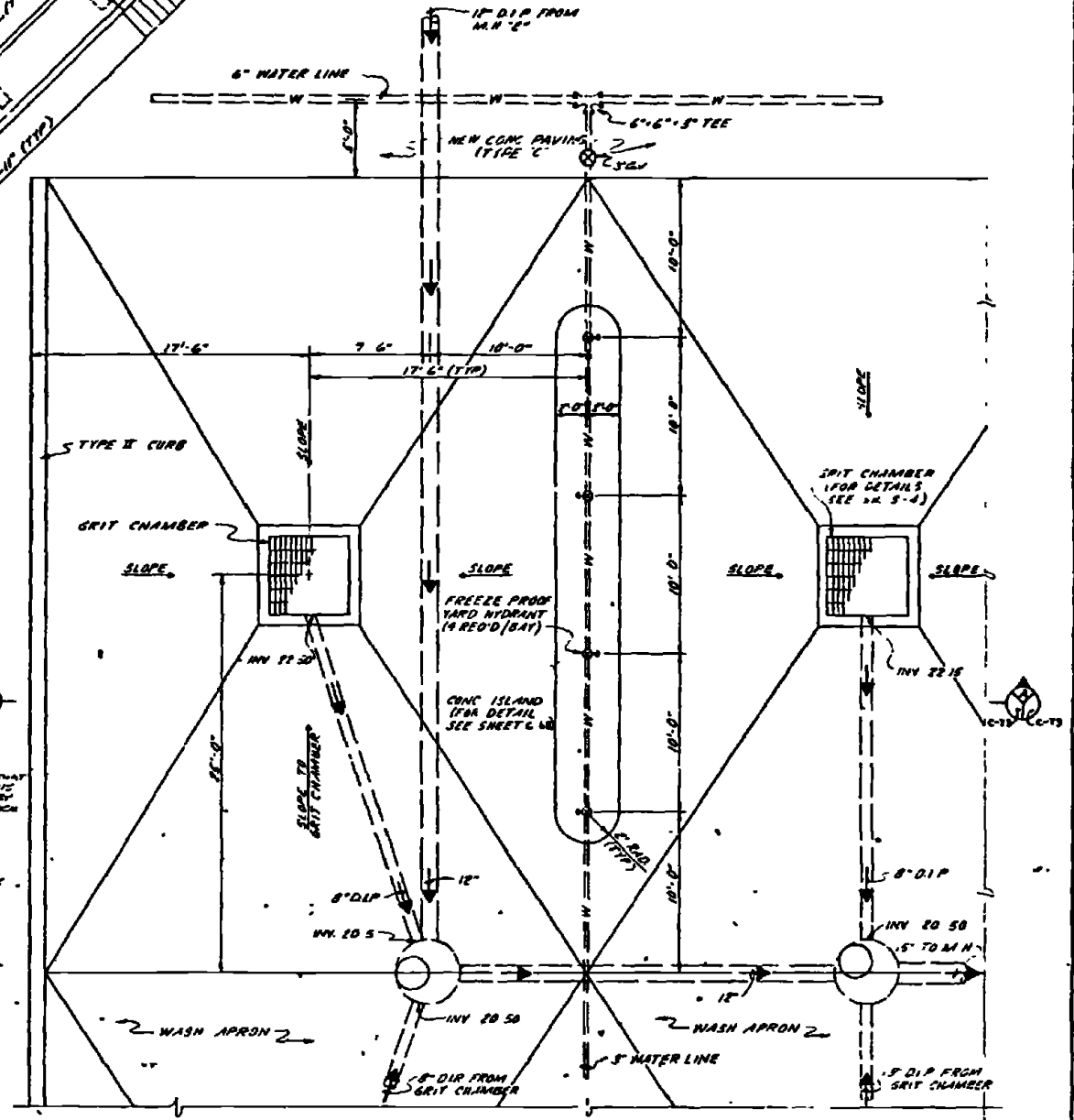


PLAN - TYPICAL GREASE RACK (1800' AREA)
SCALE 1/4" = 1'-0"

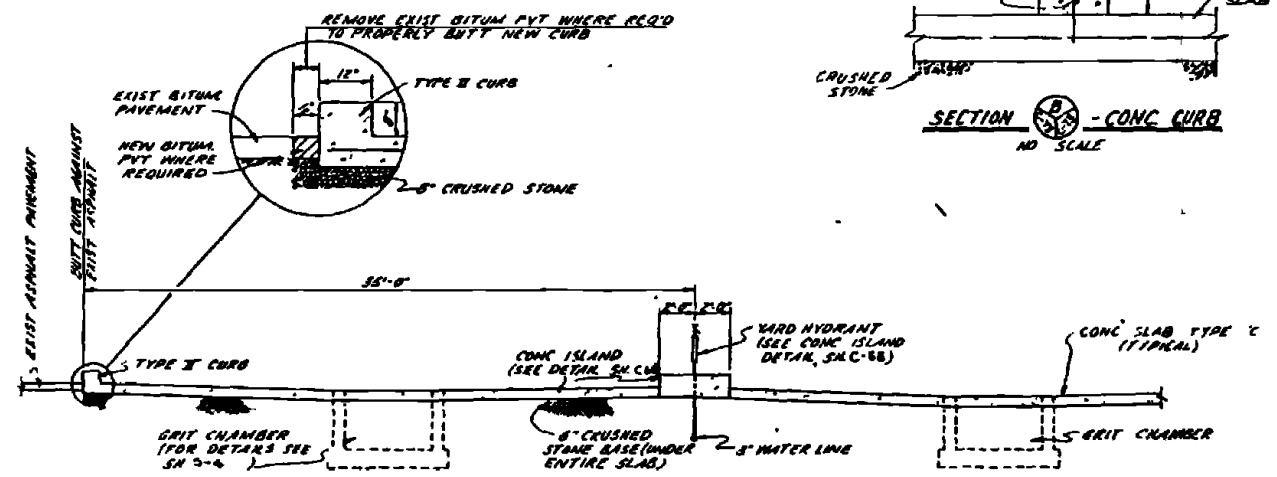
- NOTES:**
1. 2" WASTE OIL LINE FROM SWING ARM FUNNEL SHALL BE LOCATED APPROXIMATELY AS SHOWN TO PREVENT ANY INTERFERENCE WITH PIECE FOOTINGS.
 2. FOR TYPICAL DETAILS OF WASTE OIL TANK SEE SHEET M-16.
 3. GRIT CHAMBERS SHALL BE PROVIDED WITH HEAVY DUTY GRATING. SEE DETAILS FOR GRIT CHAMBERS AT THE 1800' AREA ON SHEET S-4. NO CURB SHALL BE PROVIDED AROUND GRIT CHAMBERS.
 4. FOR TYPICAL DETAILS OF NEW CONC. WRENCH RACKS SEE SHEETS S-8A, S-8B.
 5. LOCATION OF SWING ARM PANEL MAY BE ADJUSTED FROM THAT SHOWN IN PLAN WHEN TELECOMMUNICATING VEHICLE LUL DECAHS. LOCATION OF SWING ARM FUNNEL SHALL BE AS DIRECTED BY THE QUALIFYING OFFICE FOR EACH TYPE OF GARAGE BAY.



SECTION - CONC CURB
NO SCALE



PLAN - TYPICAL WASH APRON (1800' AREA)
SCALE 1/4" = 1'-0"



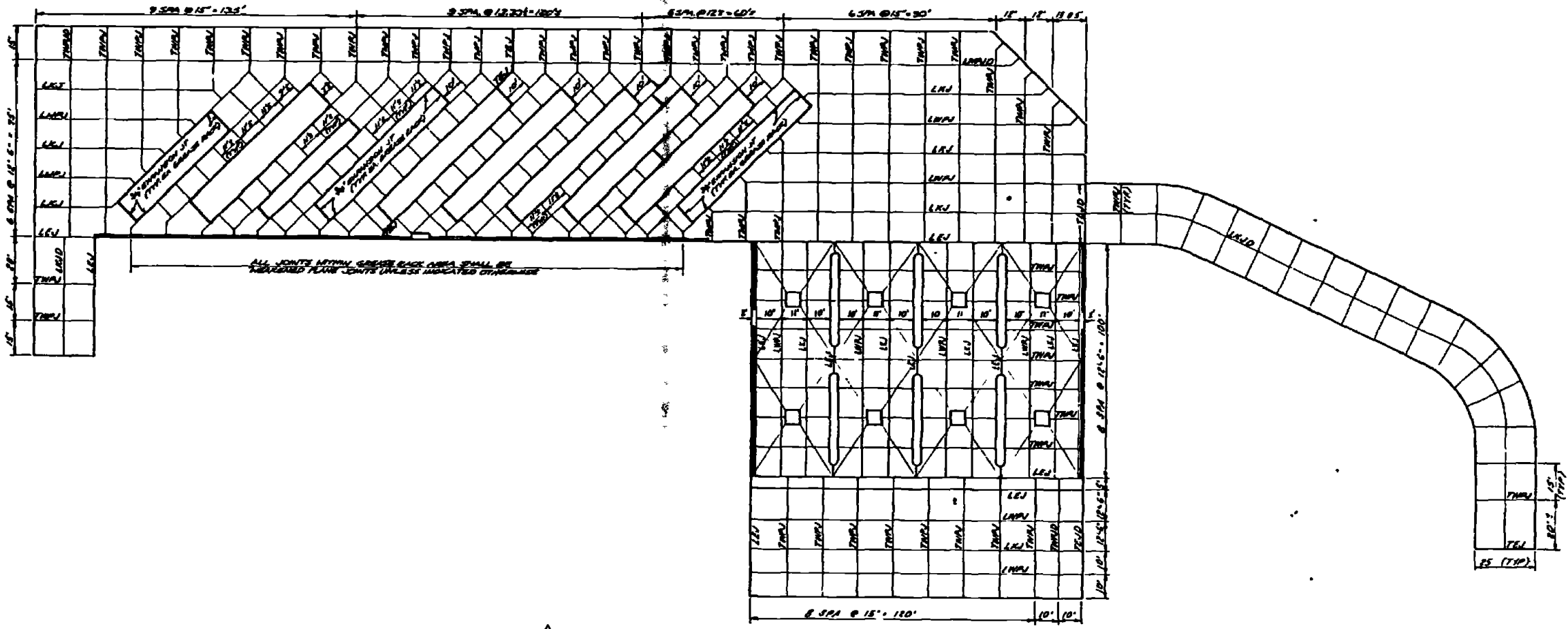
SECTION - CONC ISLAND
SCALE 1/4" = 1'-0"

NOTE FOR ELEVATIONS OF WASH APRON SLAB, SEE GRADING PLAN.

RECORD DRAWING DATE: FEB 11 1981		C-73	
AUSTIN BROCKBROUGH AND ASSOCIATES INCORPORATED 1114 S. W. 11th St. MIAMI, FL 33135		ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PLANS & DETAILS - 1800' AREA		JOB NO: 4052592	
DRAWN BY: [Signature]		CHECKED BY: [Signature]	
DATE: 11/7/68		DATE: 11/7/68	
SCALE: 1/4" = 1'-0"		DATE: 11/7/68	



SYM	DESCRIPTION	DATE	APPROVED
Δ	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES		



△
JOINTING PLAN - GREASE RACK & WASH APRONS (1800 AREA)
 SCALE 1" = 10'

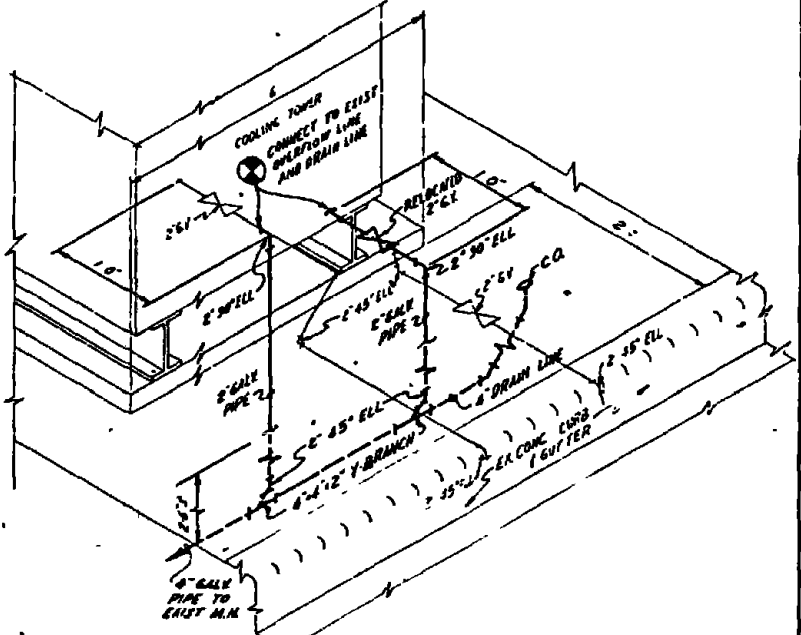
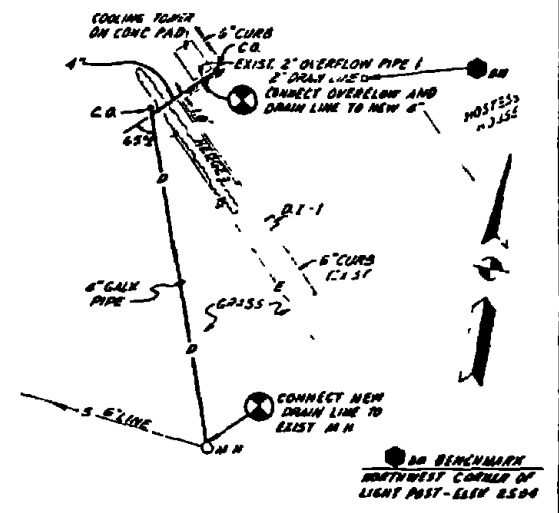
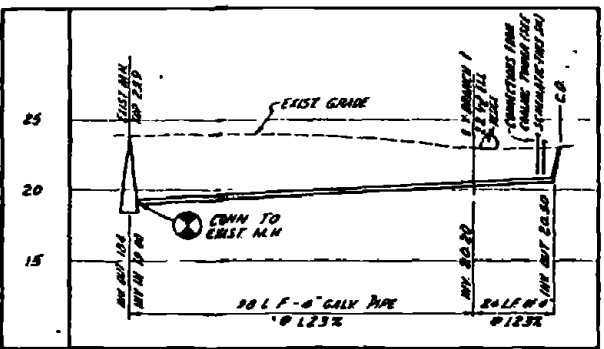
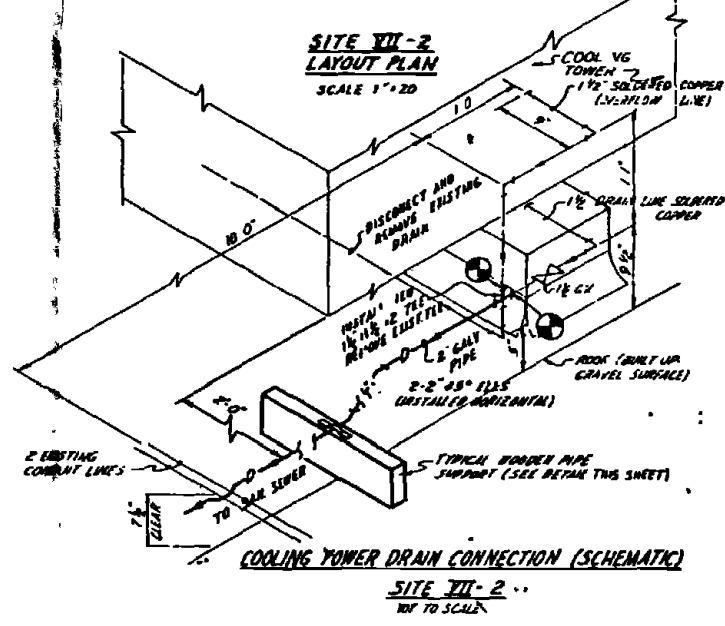
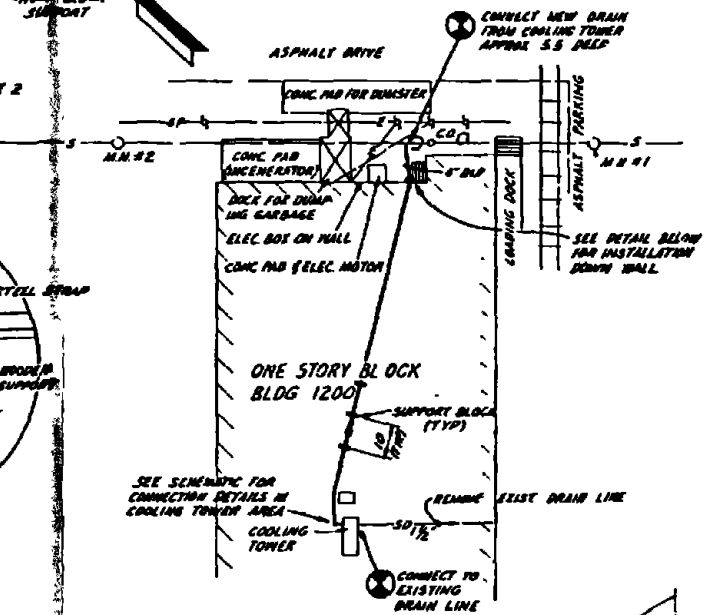
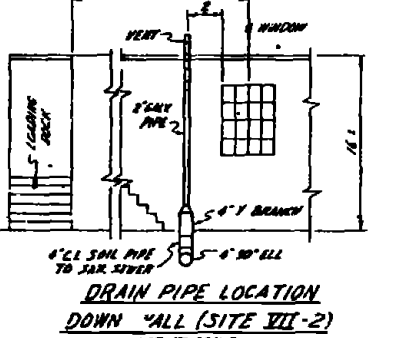
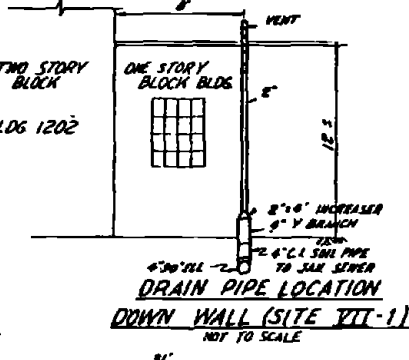
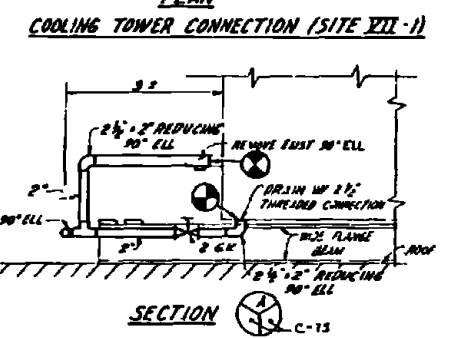
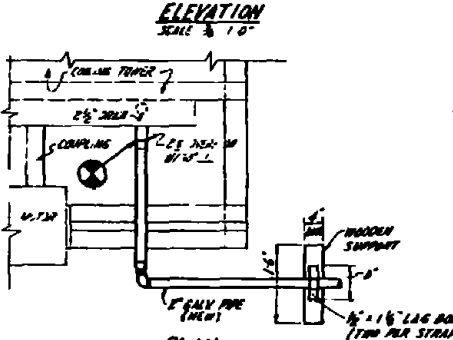
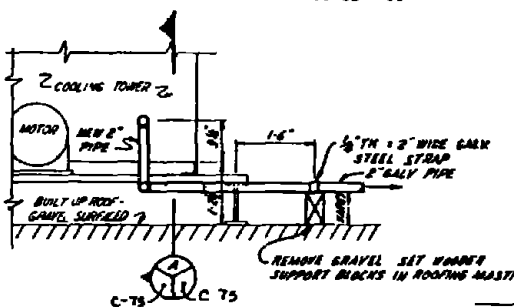
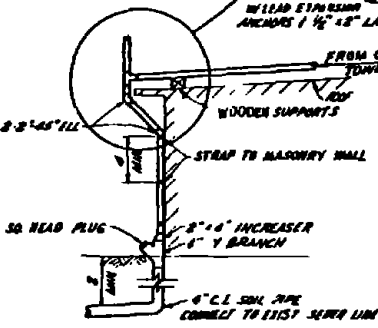
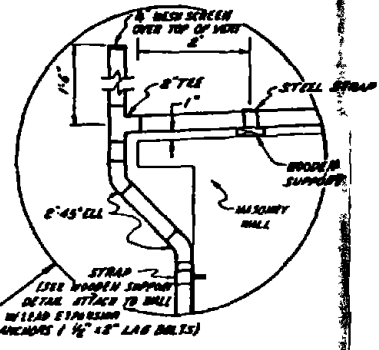
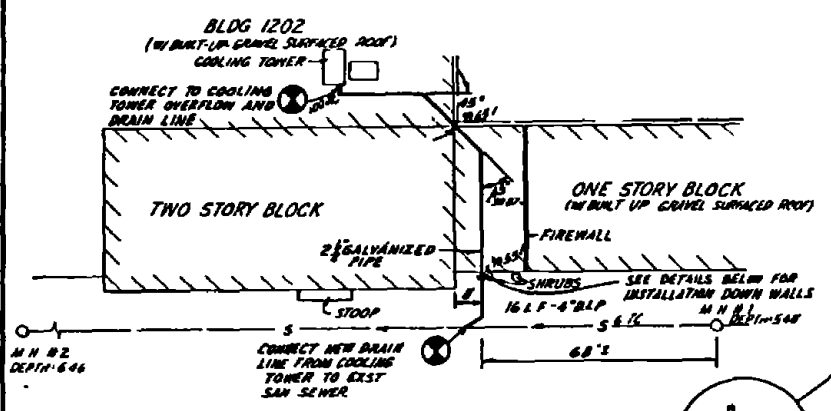
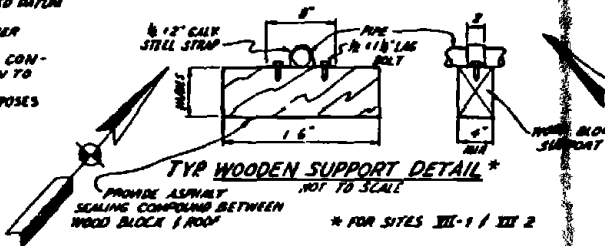
- LEGEND**
- TEJ - TRANSVERSE EXPANSION JOINT
 - TWPJ - TRANSVERSE WEAKENED PLANE JOINT
 - TWPJD - TRANSVERSE WEAKENED PLANE JOINT DOWELED
 - LEJ - LONGITUDINAL EXPANSION JOINT
 - LKJ - LONGITUDINAL CONSTRUCTION JOINT
 - LKJD - LONGITUDINAL CONSTRUCTION JOINT DOWELED
 - LWPJ - LONGITUDINAL WEAKENED PLANE JOINT
 - LWPJD - LONGITUDINAL WEAKENED PLANE JOINT DOWELED

RECORD DRAWING DATE FEB 11 1953	C-74
AUSTIN, BROCKENBROUGH AND ASSOCIATES CIVIL ENGINEERS 1008 1/2 N. W. 10th St. OKLAHOMA CITY, OKLA.	DEPARTMENT OF THE ARMY ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 1/21/53	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES JOINTING PLAN - 1800 AREA CIVIL
PROJECT NO. 4052543	DATE: FEB 11 1953
SCALE: 1" = 10'	NO. 05 78 3288



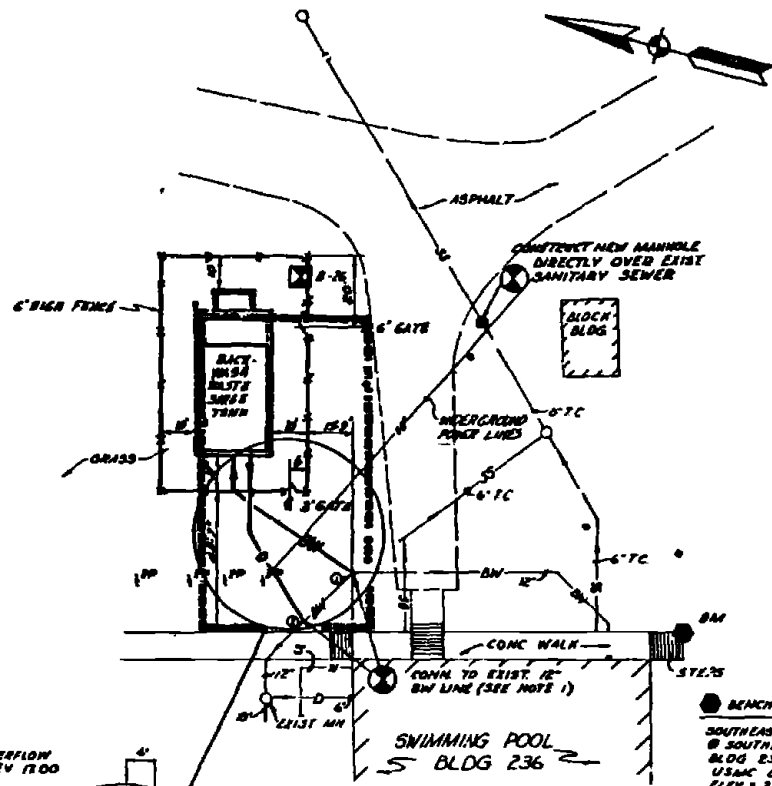
NOTES
 1. ELEVATIONS SHOWN FOR SITE VII-1 ARE BASED ON ASSUMED DATUM OF 100.00 AT ROOF ADJACENT TO COOLING TOWER
 2. WOODEN SUPPORTS SHALL BE BUILT OF SALT TREATED LUMBER
 3. DRAIN LINES FOR VII-1 & VII-2 SHALL BE INSTALLED ON A CONSTANT POSITIVE GRADE FROM COOLING TOWER CONNECTION TO EDGE OF ROOF MEET DIMENSIONS SHOWN
 4. ROOF FOR SITE VII-3 IS ASSUMED FLAT FOR PRACTICAL PURPOSES

REVISIONS	DATE	APPROVED

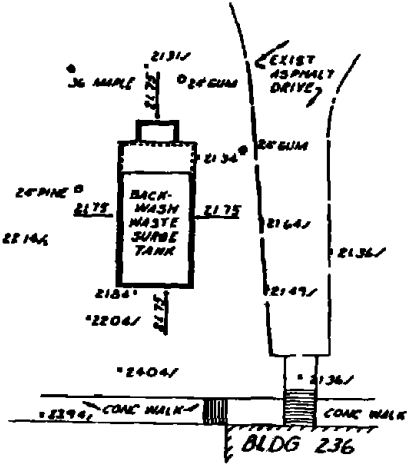


RECORD DRAWING DATE FEB 11 1973	C-75
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineers 1111 W. 10th St. Wilmington, N.C.	DEPARTMENT OF THE NAVY NAVY FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DESIGNED BY: L.L. MILLER CHECKED BY: J.W. BROWN DATE: FEB 11 1973	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PLANS, PROFILES & DETAILS - SITES VII-1, VII-2 & VII-3
APPROVED BY: L.L. MILLER DATE: FEB 11 1973	CONTRACT NO. N64470-70-8-DE-00 TASK ORDER NO. 03 1B 8260

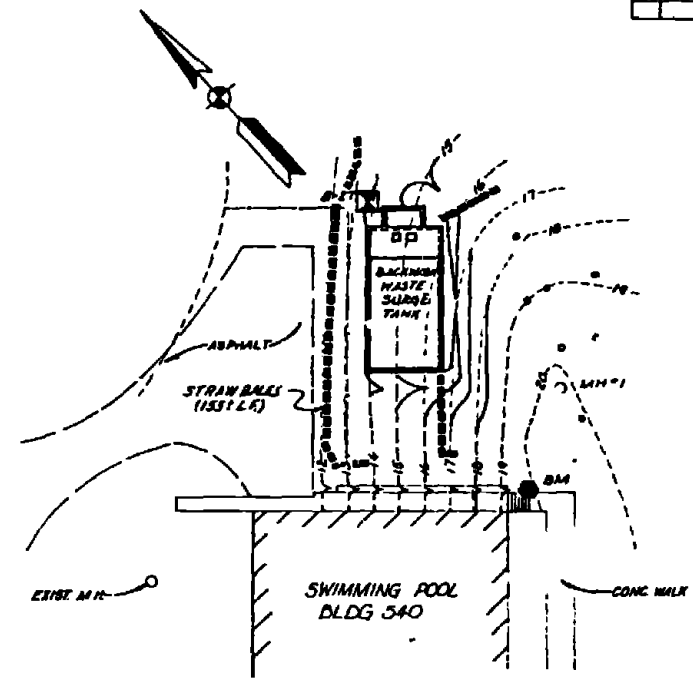
REV.	DESCRIPTION	DATE	APPROVED
01	DESIGN AS BUILT	4-78	



SITE VII-4 LAYOUT PLAN
SCALE 1"=20'

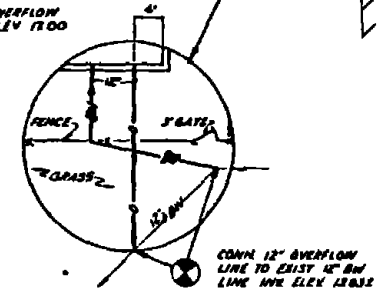


SITE VII-4 GRADING PLAN
SCALE 1"=20'

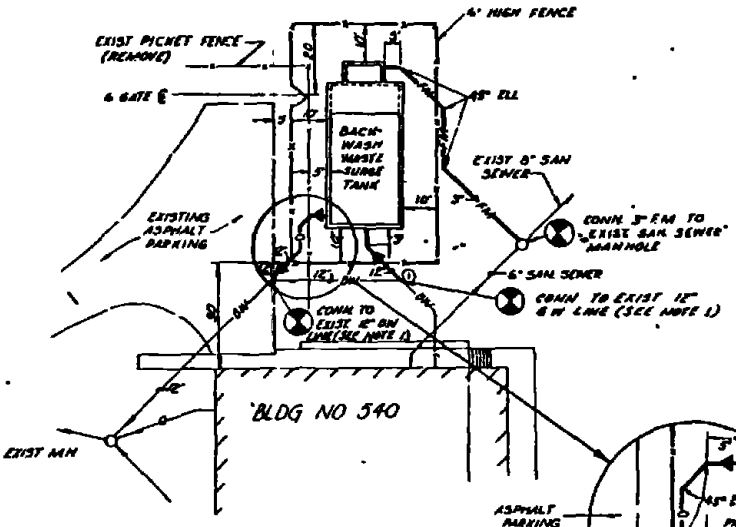


SITE VII-5 GRADING PLAN
SCALE 1"=20'

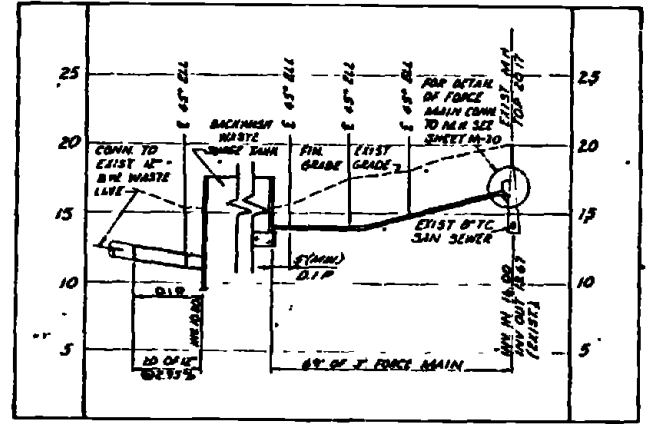
- NOTES**
1. CONNECT NEW 12" B.W. LINE TO EXIST 12" LINE @ POINT 1 SHOWN ON LAYOUT PLAN. CONNECT NEW 12" OVERFLOW LINE FROM SURGE TANK TO EXIST 12" LINE AT POINT 2. ABANDON REMAINING EXIST 12" LINE BETWEEN POINTS 1 AND 2.
 2. FOR DETAILS OF BACKWASH WASTE SURGE TANK SEE SHEETS M-12 & S-1.
 3. PROVIDE JUTE MESH COVER FOR DISTURBED AREAS AROUND SURGE TANK @ SITE VII-5.



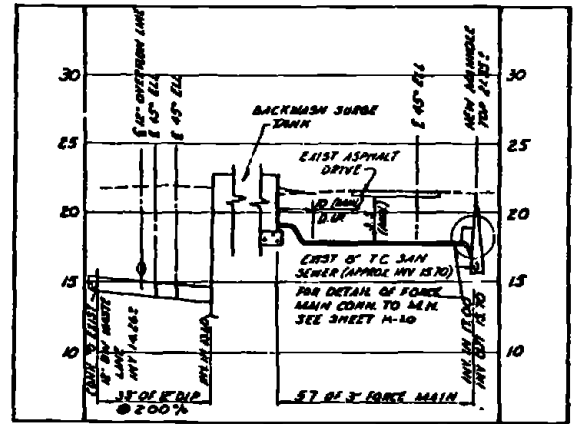
CONN 12" OVERFLOW LINE TO EXIST 12" B.W. LINE INV. ELEV. 18.62



SITE VII-5 LAYOUT PLAN
SCALE 1"=20'

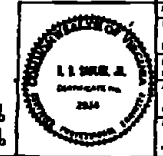


SITE VII-5 PROFILE-12" B.W. LINE @ 3' F.M.
SCALE VERT. 1"=5', HOR. 1"=20'



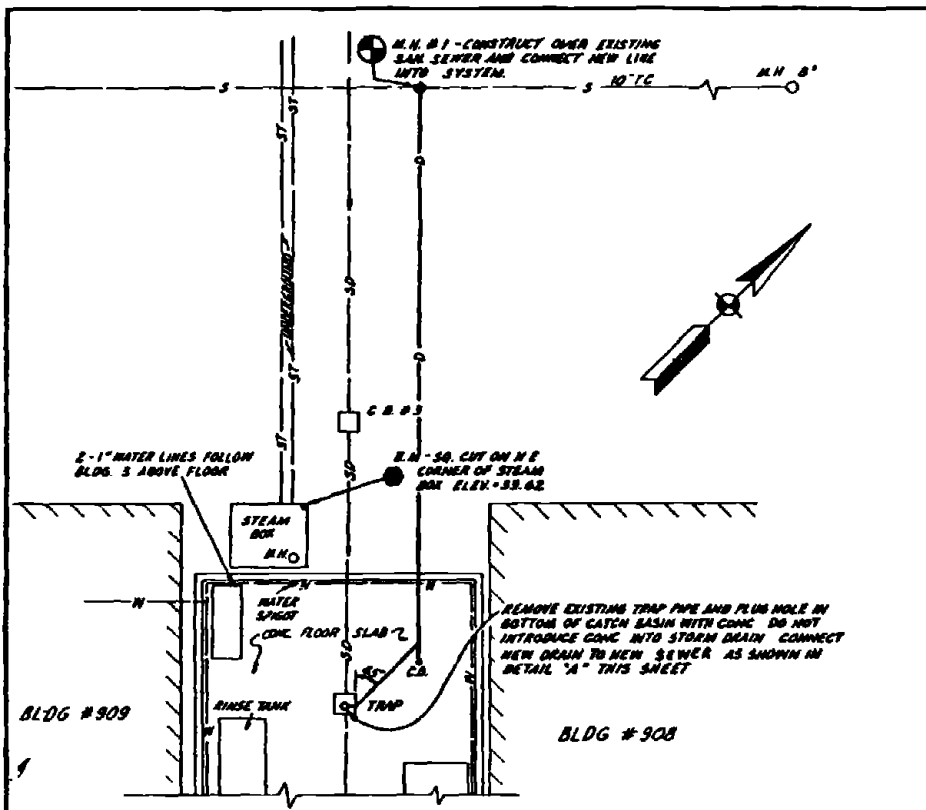
SITE VII-4 PROFILE-12" B.W. LINE @ 3' F.M.
SCALE VERT. 1"=5', HOR. 1"=20'

NOTE: TOTAL LENGTH OF 12" OVERFLOW LINE APPROX. 30'

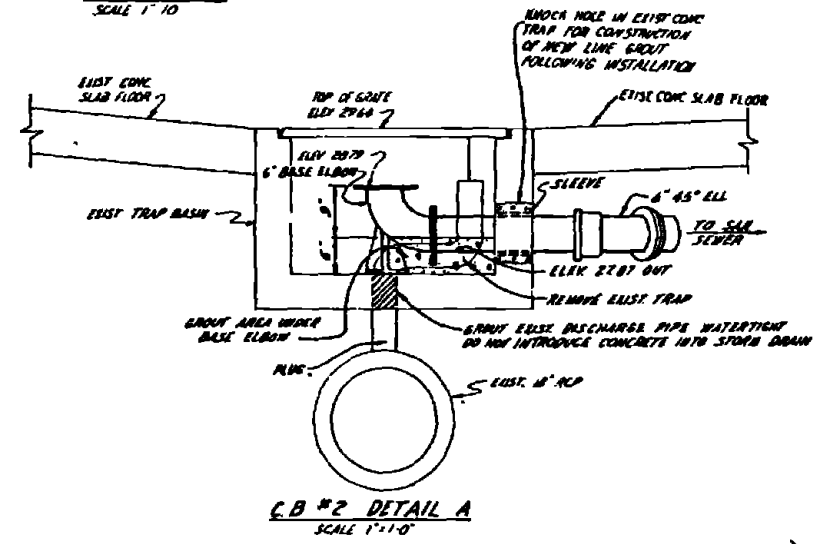


RECORD DRAWING		C-76	
DATE: FEB 11 1978			
AUSTIN BROCKENBROUGH AND ASSOCIATES		ATLANTIC DIVISION	
MARINE CORPS BASE		CAMP LEJEUNE NORTH CAROLINA	
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES		SITES VII-4 & VII-5	
DRAWING NO. 4052545		SHEET 15 OF 110	
CONTRACT NO. 662610 18 B 826 B		DATE: 05 18 826 B	

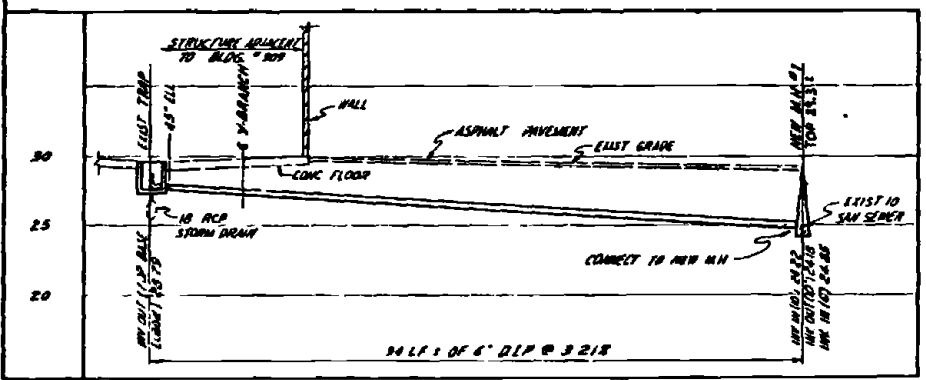
SYN	DESCRIPTION	DATE	APPROVED
(5)	RENSED AS BUILT	4/6/83	



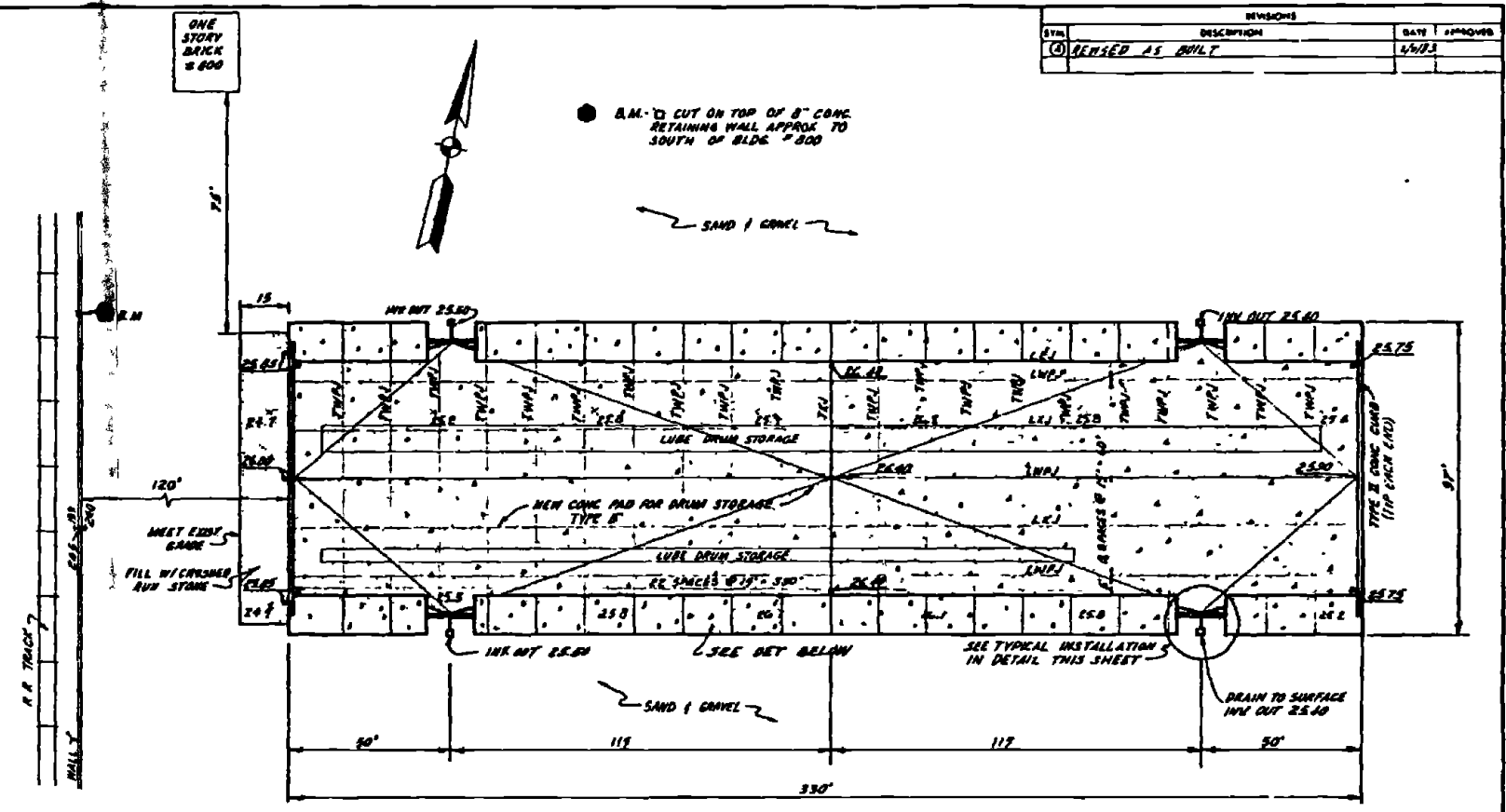
**SITE VII-6
LAYOUT PLAN
SCALE 1"=10'**



**C.B. #2 DETAIL A
SCALE 1"=1'-0"**

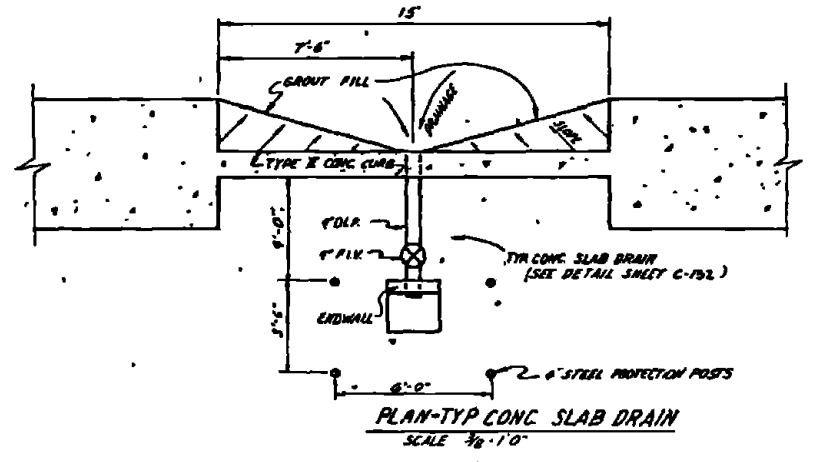


**PROFILE - 6" DRAIN LINE - SITE VII - 6
SCALE 1"=10' VERT, 1"=5' HORIZ**

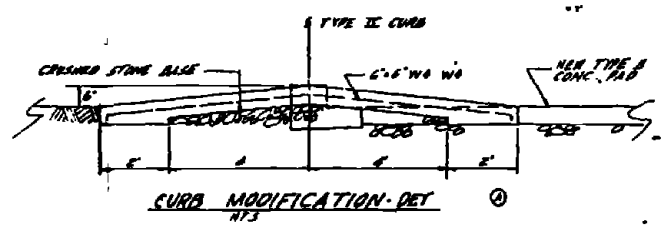


**SITE VII-7
GRADING LAYOUT PLAN
SCALE 1"=20'**

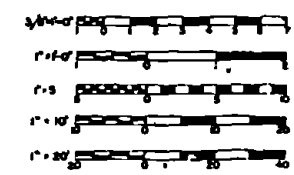
NOTES
1. CONTRACTOR SHALL REMOVE THE EXISTING DRAINS FROM AREA OF NEW PAD TO ALLOW FOR CONSTRUCTION. FOLLOWING CONSTRUCTION CONTRACTOR SHALL RE-LOCATE OLD DRAINS ON NEW PAD.



**PLAN-TYP CONC SLAB DRAIN
SCALE 3/8"=1'-0"**



**CURB MODIFICATION - DET
SCALE 1"=1'-0"**



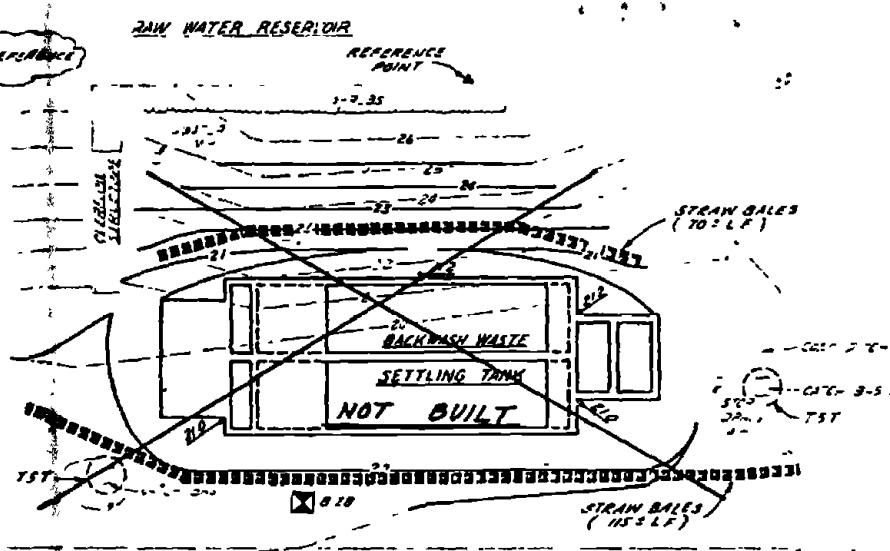
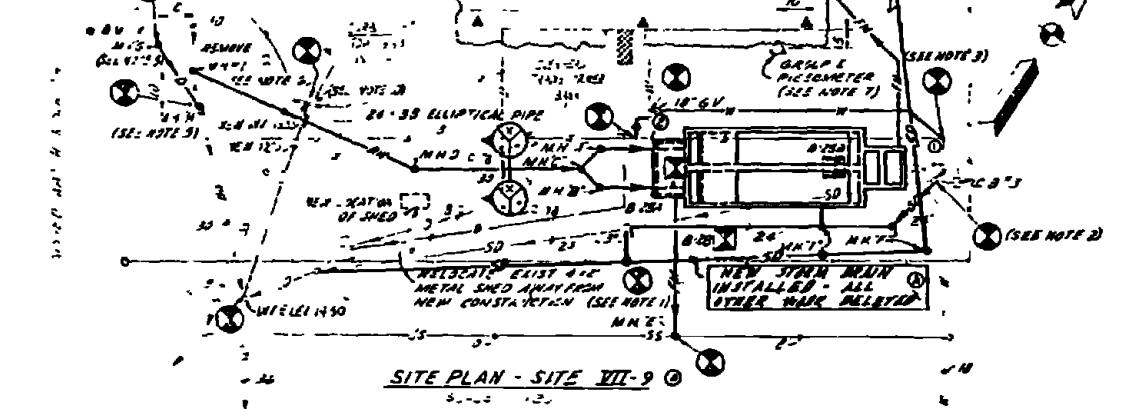
FICOPD DRAWING FEB 11 1983		C-77	
AUSTIN BROOKSBROUGH AND ASSOCIATES <small>INCORPORATED</small> 1000 W. 10th St. Raleigh, N.C. 27601	ATLANTIC DIVISION <small>NAVY FACILITIES ENGINEERING COMMAND</small> MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		
DATE DESIGNED: 1/11/83 DRAWN BY: J. L. HARRIS CHECKED BY: J. L. HARRIS APPROVED BY: J. L. HARRIS	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITES III-6 & VII-7 CIVIL		
SHEET NO. 1 TOTAL SHEETS 7	DRAWING NO. 4052546	CONTRACT NO. W82478 B 8260	SHEET 7 OF 7

1. ON 21/04/1974
 2. CUT IN WEST CORNER
 OF FINISHED WATER RESERVOIR
 ELEV. 28.30

M.M. 2
 TOP 22.4
 INV. 14.122
 INV. OUT 12.2

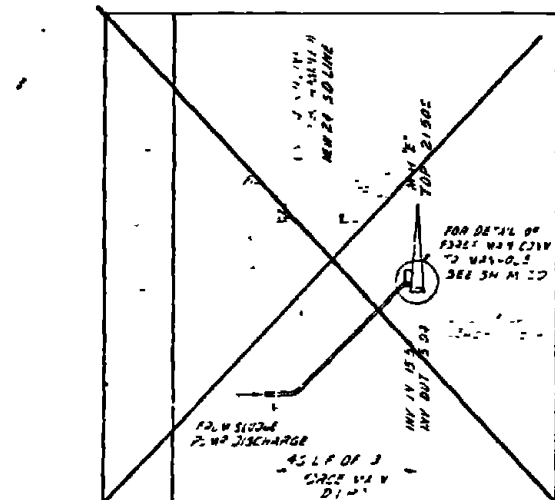
M.M. 4
 TOP 22.4
 INV. 14.122
 INV. OUT 12.2

REVISION AS SHOWN
 6.0

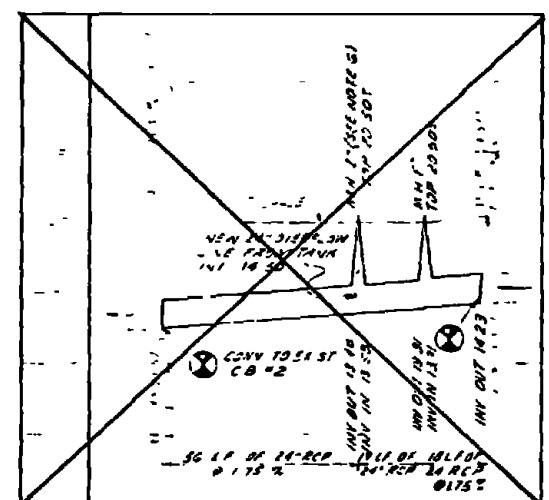


NOTES:
 1. CONTRACTOR SHALL EXCAVATE AND UNCOVER ALL EXISTING UNDERGROUND UTILITIES & VERIFY THEIR LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION IN THIS AREA.
 2. REMOVE AND ABANDON EXIST 24" STORM DRAIN LINE BETWEEN STORM M.H. NO. 7 AND CATCH BASIN NO. 2. PROVIDE NEW 24" STORM DRAIN LINE AS SHOWN & CONT. TO CATCH BASIN NO. 2.
 3. REMOVE EXIST. WATER LINE BETWEEN POINTS 1 AND 2, PROVIDE NEW RAW WATER LINE WHERE SHOWN.
 4. CORN. NEW 24" 30' ELLIPTICAL BACKWASH LINE TO NEW M.H. 1. REMOVE EXIST. 30" LINE LEAVING THE EXIST. MANHOLE AND EXIST. 10" DRAIN ENTERING EXIST. MANHOLE.

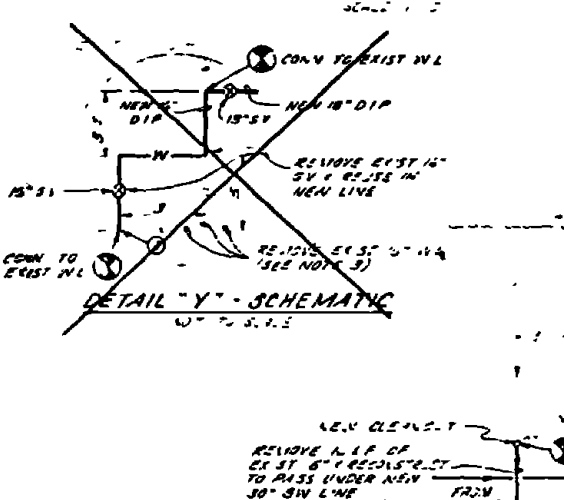
NOTES (CONT.)
 5. CONSTRUCT NEW MANHOLE 6" DIRECTLY OVER THE EXISTING 10" LINE ENTERING M.H. 1 AS SHOWN. REMOVE THE 24" 10' LINE BETWEEN M.H. 1 & M.H. 9. CONSTRUCT NEW MANHOLE DIRECTLY OVER THE EXISTING 30" LINE AS SHOWN. CONSTRUCT NEW 10" DRAIN LINE BETWEEN M.H. 1 & M.H. 9 TO APPROXIMATE ELEVATIONS AS SHOWN. ELEVATIONS MAY VARY SLIGHTLY FROM THOSE SHOWN IN ORDER TO SUIT FIELD CONDITIONS.
 6. NEW M.H. 1 & 2 SHALL BE 6" DIAMETER MANHOLES. EXIST. M.H. 1 SHALL BE REMOVED AND A NEW 6" DIAMETER M.H. 1 SHALL BE CONSTRUCTED IN ITS PLACE.
 7. IN ORDER TO VERIFY THE EFFECTS OF GROUNDWATER DRAIN DOWN BY THE EXIST. RAW WATER RESERVOIR DURING CONSTRUCTION OF THE SETTLING TANK TWO GROUPS OF PRESSURE TESTS SHALL BE PROVIDED AS SHOWN. ALSO REFERENCE POINTS SHALL BE ESTABLISHED WHERE SHOWN IN THE RESERVOIR AND A LOG OF THEIR ELEVATIONS RECORDED OVER THE CONSTRUCTION PERIOD FOR CHECKS OF THE PNEUMETERS. SEE SHEET C-3.



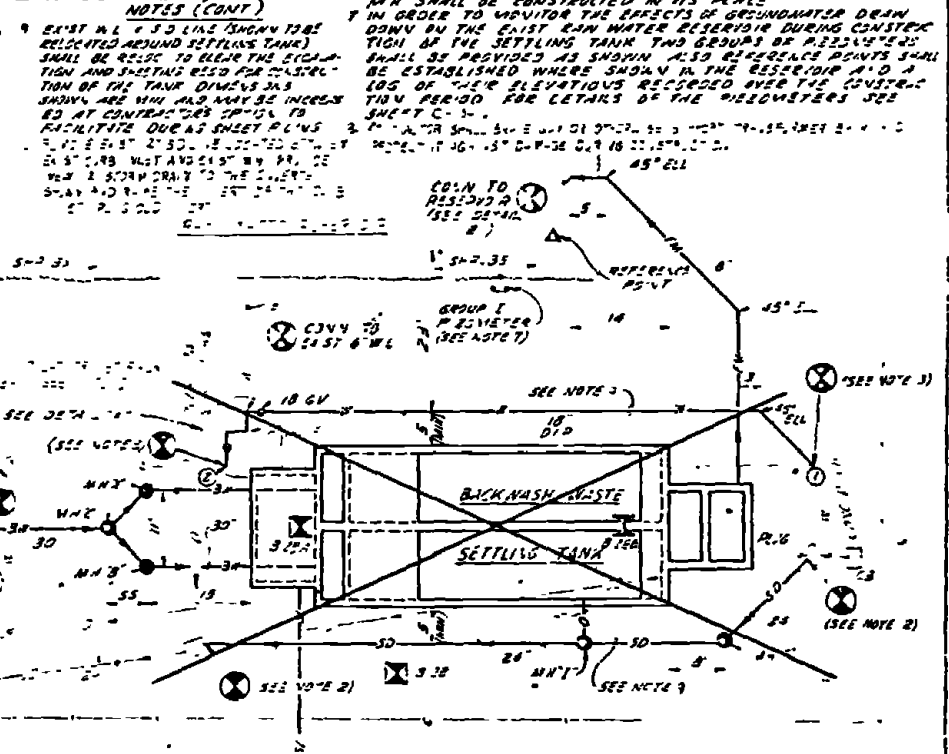
PROFILE - 3" SLUDGE LINE



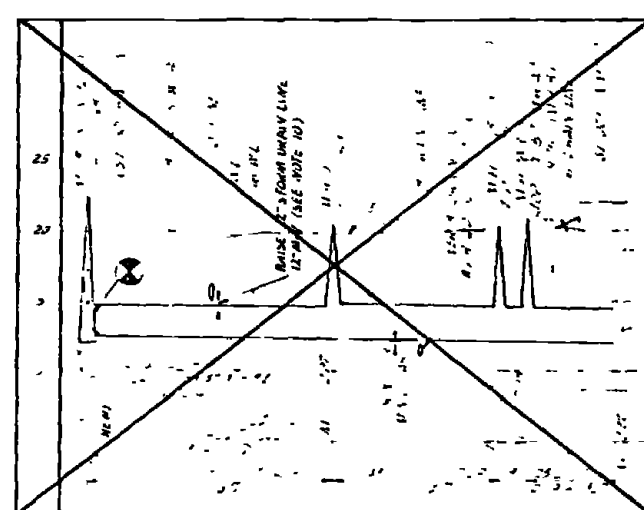
PROFILE - 24" STORM DRAIN



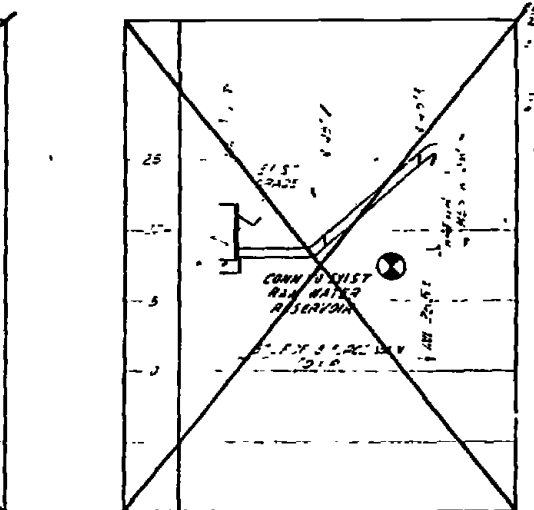
DETAIL 'Y' - SCHEMATIC



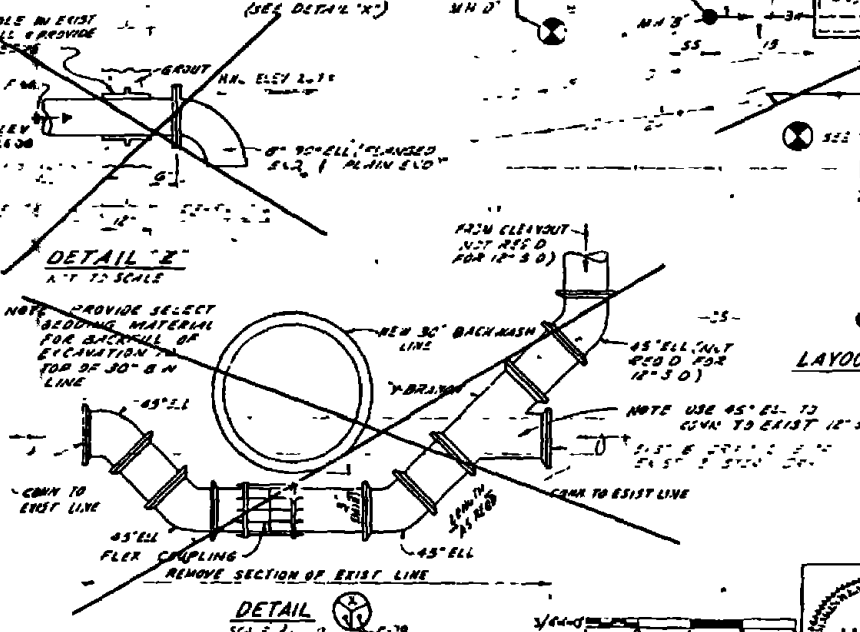
LAYOUT PLAN - SITE VII-9



PROFILE - BACKWASH LINE



PROFILE - 8" FORCE MAIN



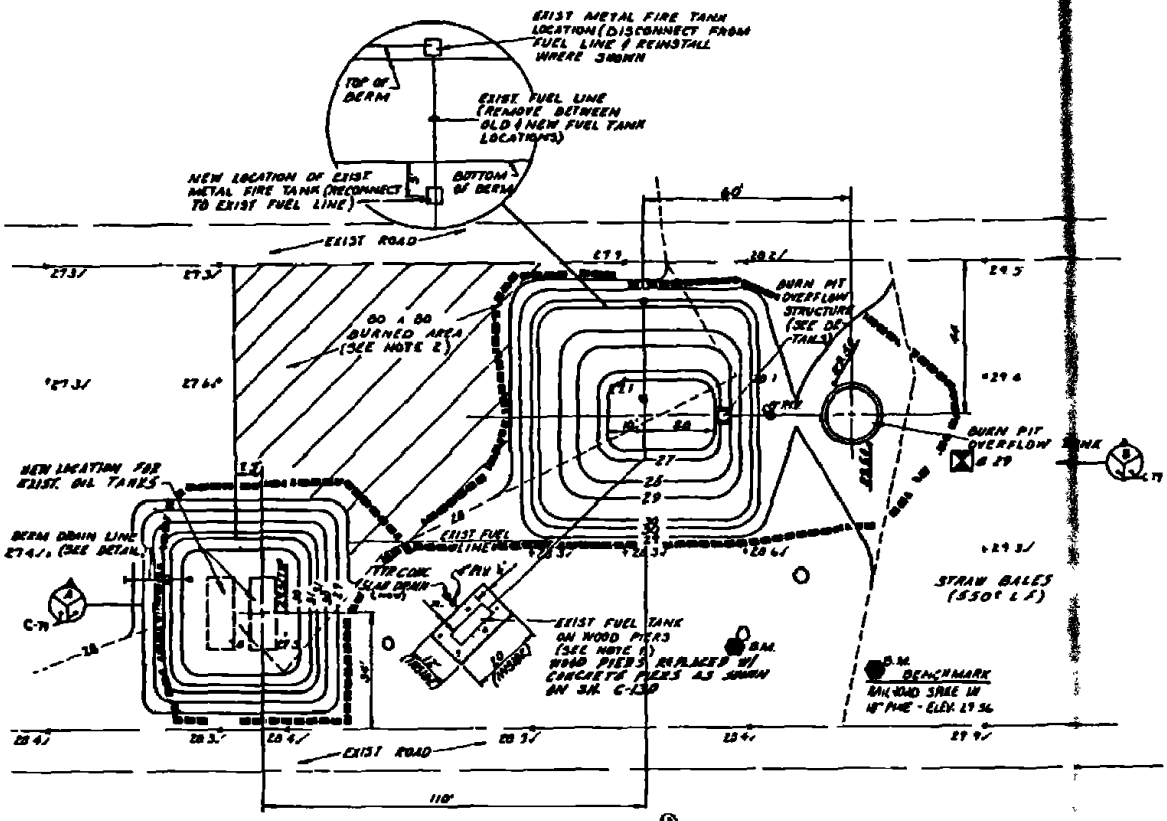
DETAIL 'Z'

DETAIL SCALE 2" = 1'-0"

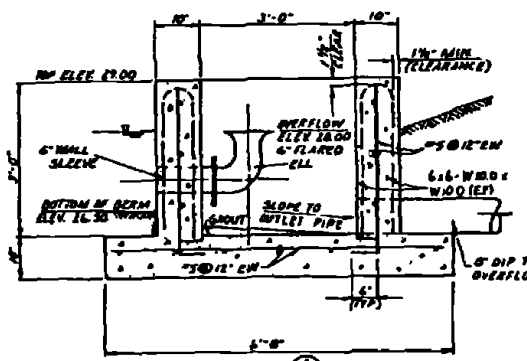
RECORD DRAWING DATE FEB 11 1974	C-78
AUSTIN BROCKBROUGH AND ASSOCIATES ENGINEERS	ATLANTIC DIVISION INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITE VII-9
PROJECT NO. 74-100 SHEET NO. 24 DATE 12/1/73	F 30091



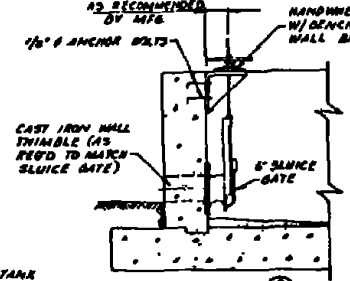
SYM	DESCRIPTION	DATE
①	REVISED AS SHOWN	1/7/52



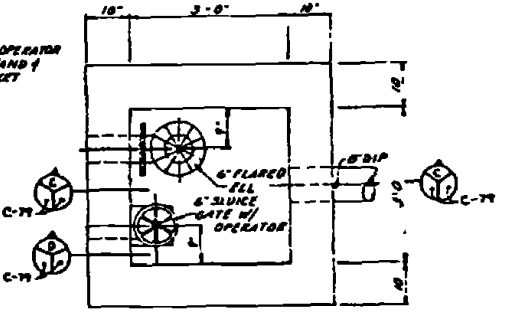
SITE VII-10
GRADING AND LAYOUT PLAN
SCALE 1"=20'



SECTION C-77
SCALE 3/4"=1'-0"

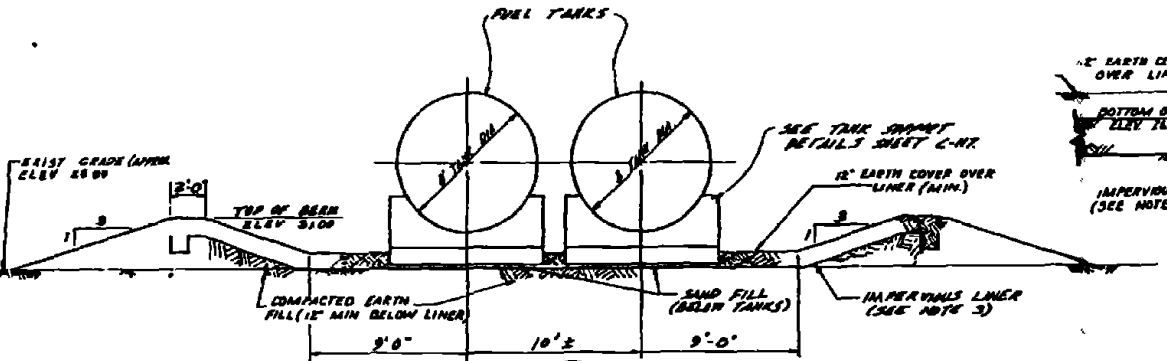


SECTION C-78
SCALE 3/4"=1'-0"

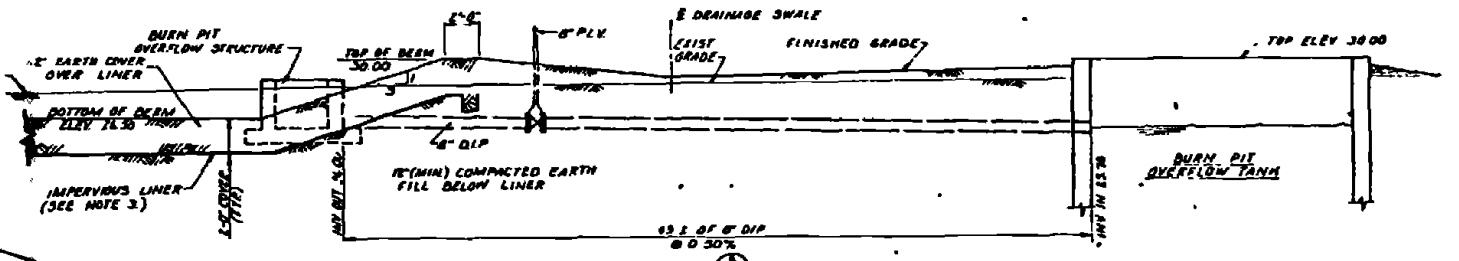


PLAN - BURN PIT OVERFLOW STRUCTURE
SCALE 3/4"=1'-0"

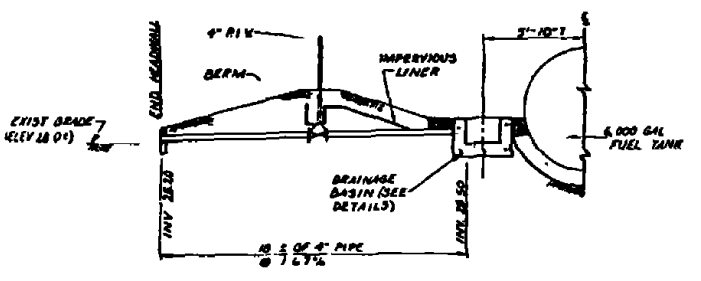
1. TYP FUEL TANK CONTAINMENT AREA SHALL BE PROVIDED AROUND THE EXISTING FUEL TANK AS SHOWN FOR TYPICAL DETAILS OF FUEL TANK CONTAINMENT AREA SEE SHEET C-190 FOR DETAILS OF TYP SLAB DRAIN SEE SHEET C-190.
2. THE EXISTING BURNED AREA (SHOWN WITH CROSS-MATCHED MARKS) SHALL BE GRADED AS FOLLOWS: REMOVE TOP 12 INCHES OF SOIL AND REPLACE WITH TOPSOIL REGRADE AREA AND SEED.
3. AN IMPERVIOUS LINER SHALL BE PROVIDED FOR THE BERMED AREAS AS SHOWN CONSTRUCTION AND SECURING OF THE LINERS SHALL BE AS RECOMMENDED BY THE MANUFACTURER SEE SHEET C-79 FOR TYPICAL DETAILS.
4. FOR DETAILS OF BURN PIT OVERFLOW TANK SEE SHEET S-7.



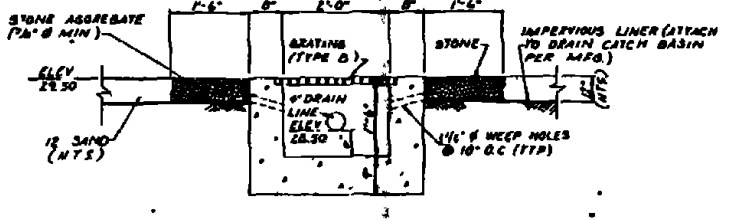
DETAIL C-79
SCALE 1/4"=1'-0"



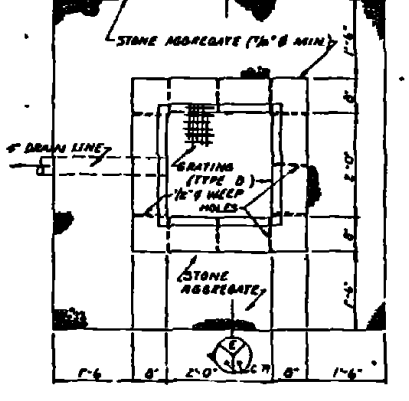
SECTION C-78
SCALE 1"=1'-0"



DRAIN DETAIL
SCALE 1/4"=1'-0"



SECTION C-77
SCALE 3/4"=1'-0"

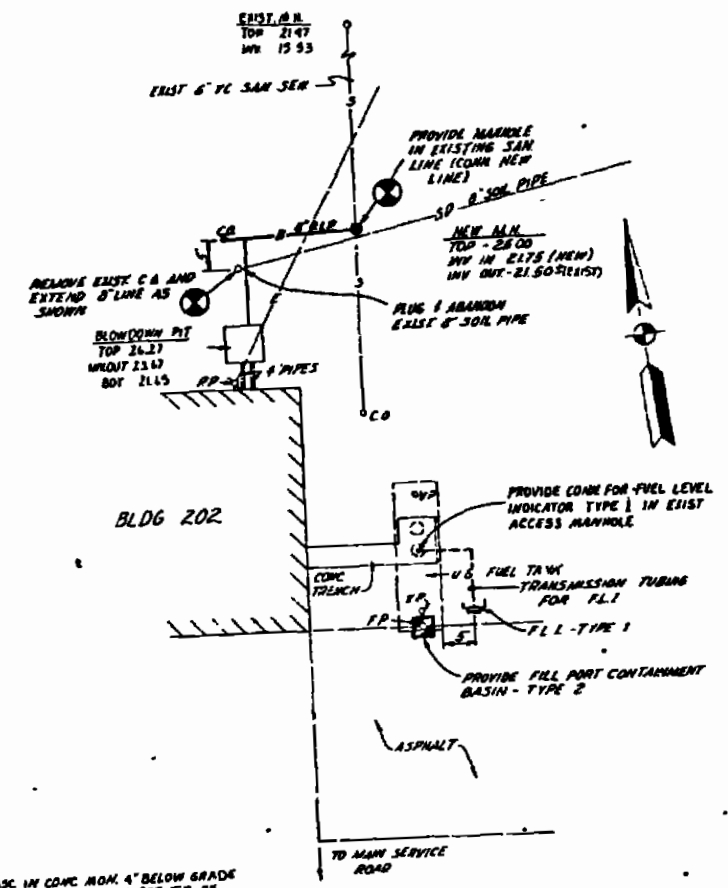


PLAN - DRAINAGE BASIN
SCALE 3/4"=1'-0"

RECORD DRAWING DATE FEB 11		C-79	
AUSTIN BROOKBROUGH AND ASSOCIATES Civil Engineers 115 S. 1st St. Raleigh, N.C.	DEPARTMENT OF THE NAVY NAVY STATION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA	ATLANTIC DIVISION INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & DETAILS - SITE VII-10 CIVIL	
DESIGNED BY: J. L. ... CHECKED BY: ... DATE: ...	DATE: ...	NO. 80091	4052548
SCALE AS SHOWN: 1"=20'		SCALE OF SHEET: 1"=20'	



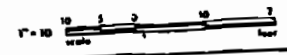
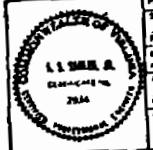
SYMBOL	DESCRIPTION



● BA - USMC C 3 BRASS DISC IN CONC. MON. 4' BELOW GRADE 214 METERS SW OF THE SOUTHWEST CORNER OF BUILDING FC 102. 158 METERS NORTH OF THE E. OF MAIN SERVICE ROAD 29 METERS NW OF POWER POLE AND 7.9 METERS NE OF MANHOLE COVER ELEV 2286

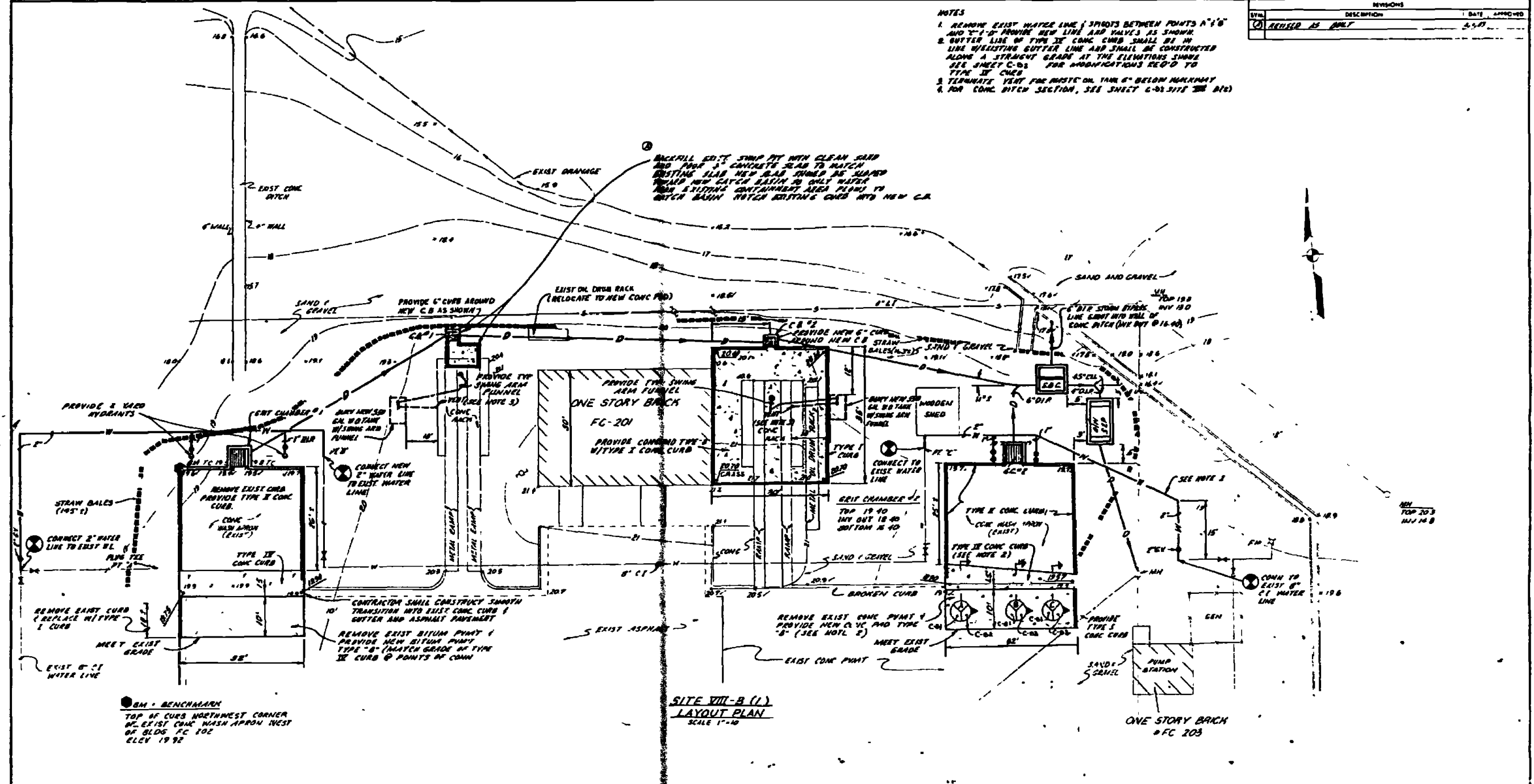
**SITE VII-A
LAYOUT PLAN
SCALE 1"=10'**

RECORD DRAWING DATE FEB '1 21'	C-80
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineers	DEPARTMENT OF THE NAVY ATLANTIC DIVISION
DESIGNED BY: GMA	NAVY STATION MARINE CORPS BASE CAMP VERBONE NORTH, ARD, VA
CHECKED BY: GMA	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
DATE: 1/21/21	SITE PLAN - SITE VII-A
PROJECT NO: 10091	CIVIL
CONTRACT NO: 68870 10 B 002	



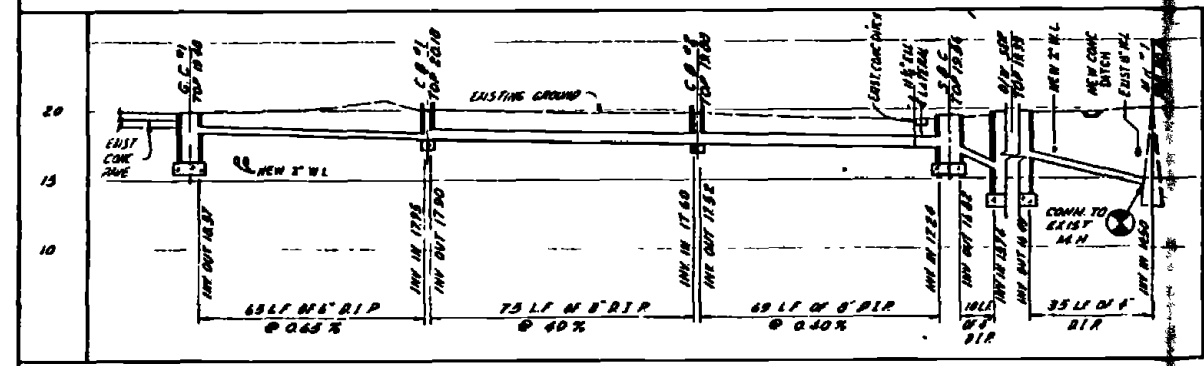
- NOTES
1. REMOVE EXIST WATER LINE / SPIGOTS BETWEEN POINTS A'-10 AND A'-11 PROVIDE NEW LINE AND VALVE AS SHOWN
 2. BUTTER LINE OF TYPE II CONC CURB SHALL BE IN LINE WITH EXISTING GUTTER LINE AND SHALL BE CONSTRUCTED ALONG A STRAIGHT GRADE AT THE ELEVATIONS SHOWN SEE SHEET C-03 FOR MODIFICATIONS REQ'D TO TYPE II CURB
 3. TERMINATE VENT FOR WASTE ON TANK 6" BELOW WALKWAY
 4. FOR CONC DITCH SECTION, SEE SHEET C-03 SITE III B(1)

BACKFILL EXIST SWAMP PIT WITH CLEAN SAND AND POUR 3" CONCRETE SLAB TO MATCH EXISTING SLAB NEW SLAB THICKNESS SHALL BE 4" PROVIDE NEW CATCH BASIN TO ONLY WATER FROM EXISTING CONTAINMENT AREA FLOW TO DITCH BASIN MATCH EXISTING CURB AND NEW CR



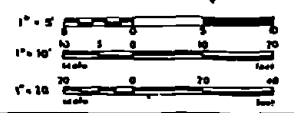
SITE VIII-B(1)
 LAYOUT PLAN
 SCALE 1"=40'

BM - BENCHMARK
 TOP OF CURB NORTHWEST CORNER
 OF EXIST CONC WASH APRON WEST
 OF BLDG FC 102
 ELEV 19.92



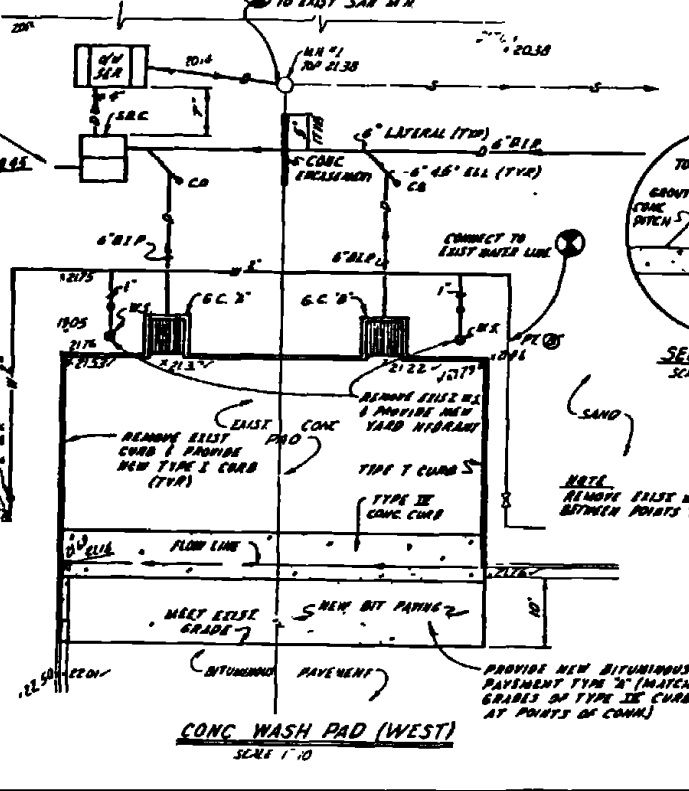
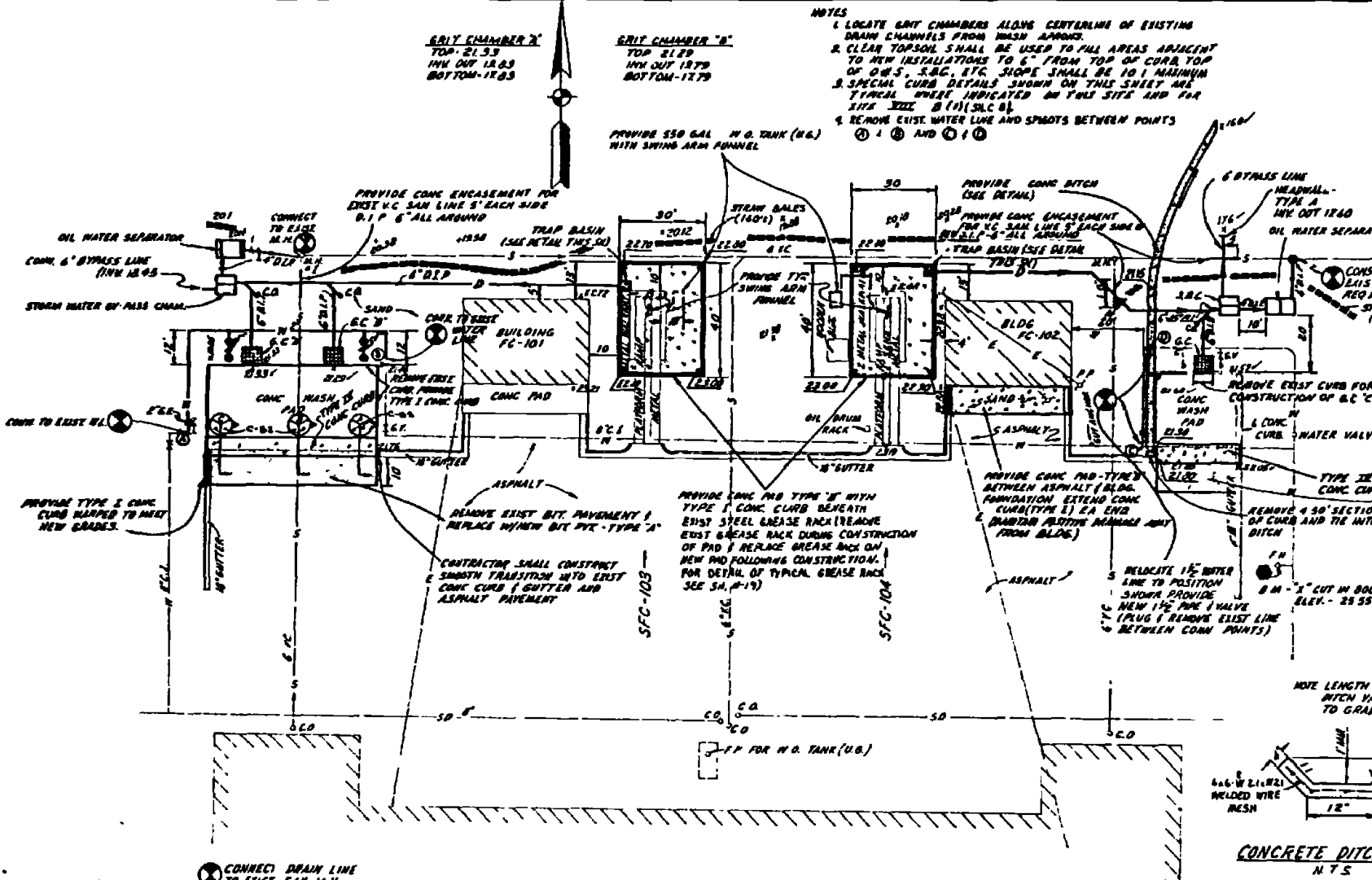
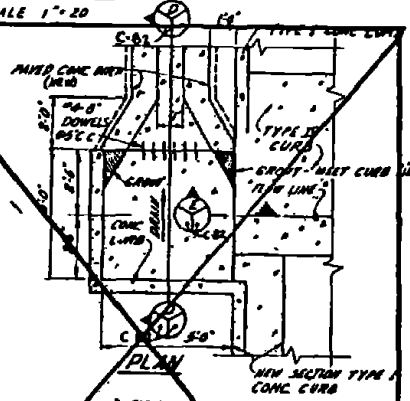
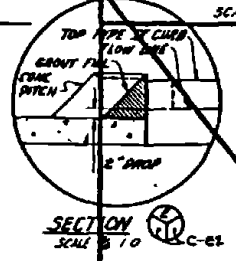
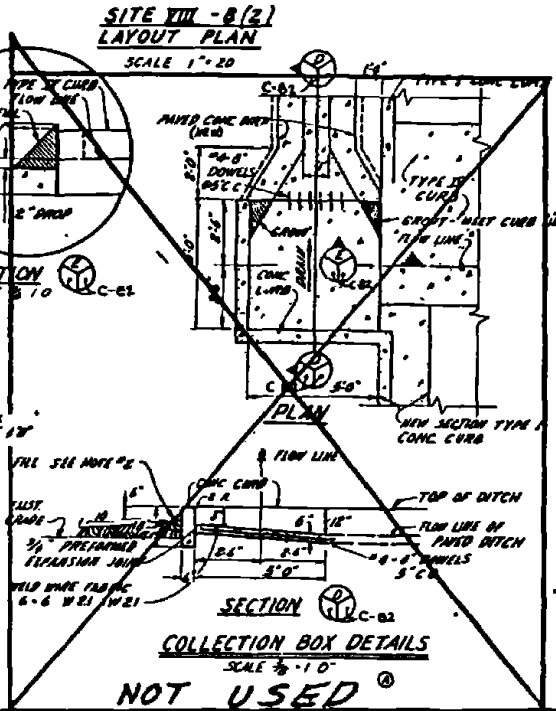
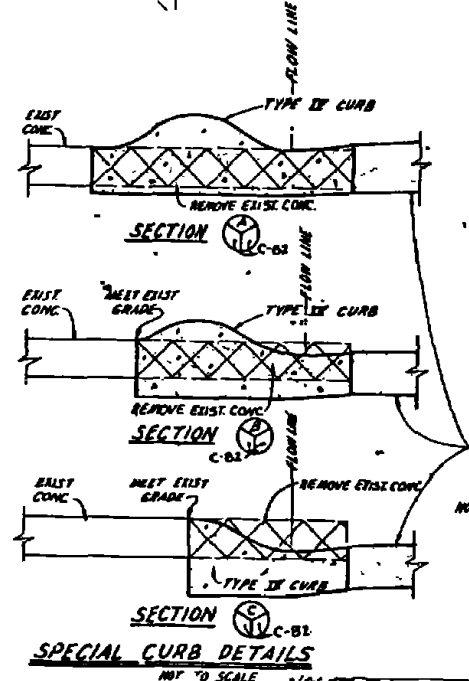
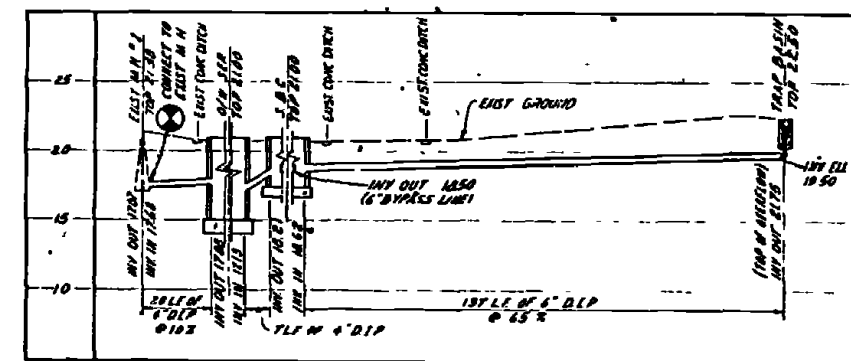
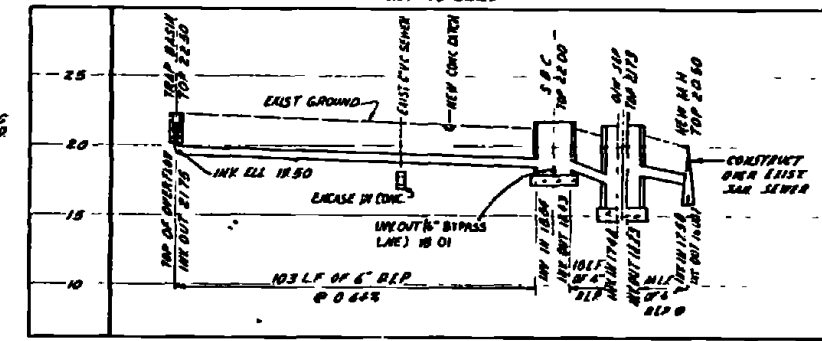
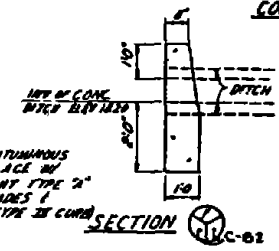
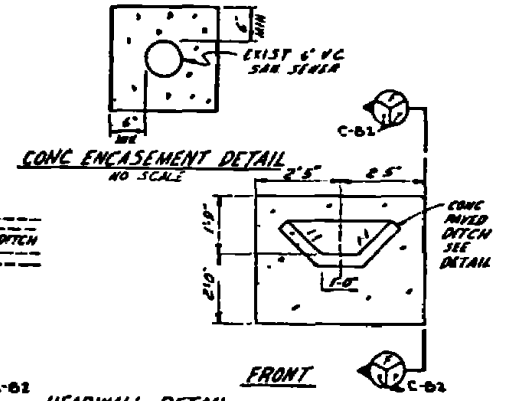
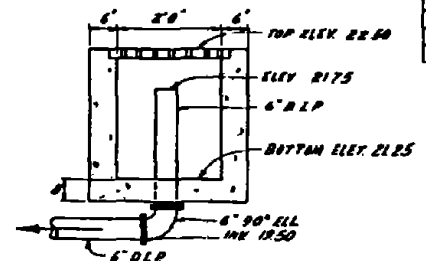
SITE VIII - B (1)
 PROFILE - CONCRETE PAD DRAIN
 SCALE VERTICAL 1"=5' HORIZONTAL 1"=20'

RECORD DRAWING DATE FEB 1 1959		C-81	
AUSTIN BROCKENBROUGH AND ASSOCIATES CORPORATION		ATLANTIC DIVISION	
PROJ. MGR. G.W.H. CH. ENGR. C.H. BING		MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA	
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES		SITE PLAN & PROFILE - SITE VIII-B(1)	
DRAWN BY J.L. SMITH		CHECKED BY J.L. SMITH	
DATE 1/21/59		SCALE AS SHOWN	
APPROVED DATE		DRAWING NO. 4052550	
CONTRACT NO. W62377 78 3 330		SHEET NO. 10 OF 10	



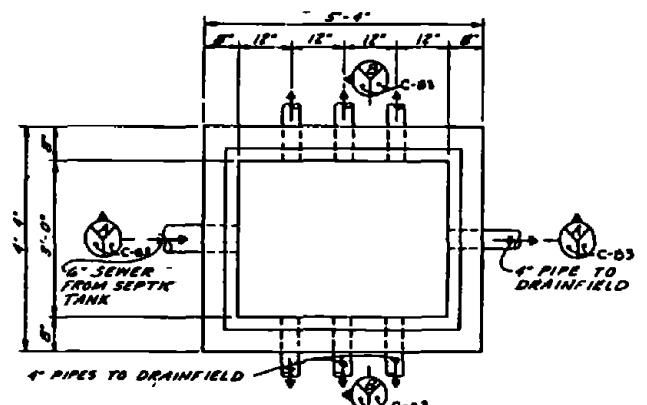
REV	DESCRIPTION	DATE	APPROVED
1	ISSUED AS UNIT	1/7/51	

- NOTES
1. LOCATE GUT CHAMBERS ALONG CENTERLINE OF EXISTING DRAIN CHANNELS FROM WASH APPROX.
 2. CLEAR TOPSOIL SHALL BE USED TO FILL AREAS ADJACENT TO NEW INSTALLATIONS TO 6" FROM TOP OF CURB TOP OF 6" S. S.B.C. 8" SLOPE SHALL BE 10:1 MINIMUM
 3. SPECIAL CURB DETAILS SHOWN ON THIS SHEET ARE TYPICAL DETAILS INDICATED ON PLOT SHEET AND FOR SIZE SEE B (1) (S.C. 6)
 4. REMOVE EXIST WATER LINE AND SPOOTS BETWEEN POINTS ① ② AND ③ ④

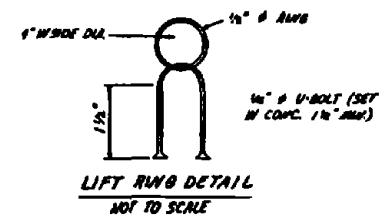


RECORD DRAWING FEB 11 1951		C-82	
AUSTIN BROCKBROUGH AND ASSOCIATES INCORPORATED 1111 N. 10th St. DALLAS, TEXAS		ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA	
PROJECT NO. 1111 SHEET NO. 1111		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN, PROFILES & DETAILS-SITE VII-B(2) CIVIL	
DRAWN BY: [Signature] CHECKED BY: [Signature]		DATE: 1/11/51 SCALE: AS SHOWN	
APPROVED BY: [Signature]		DATE: 1/11/51	

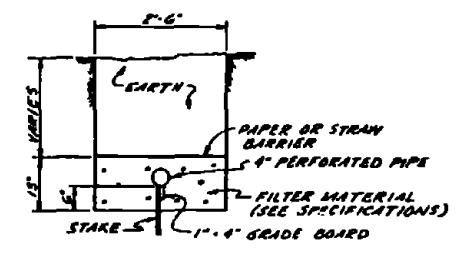
REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED



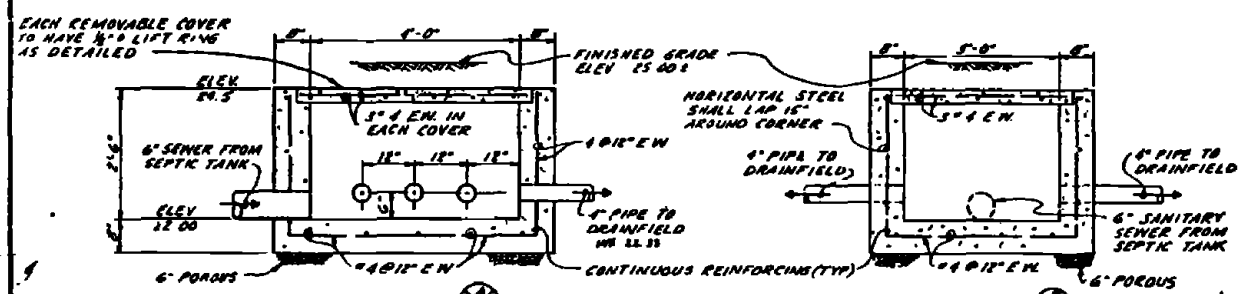
PLAN-DISTRIBUTION BOX
SCALE 1/4" = 1'-0"



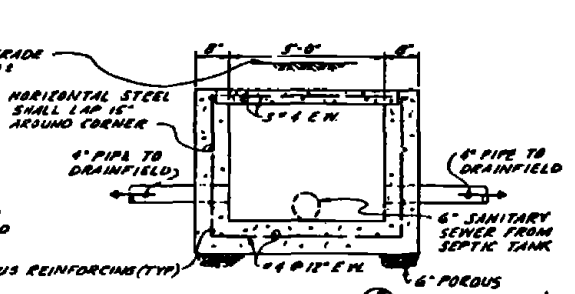
LIFT RING DETAIL
NOT TO SCALE



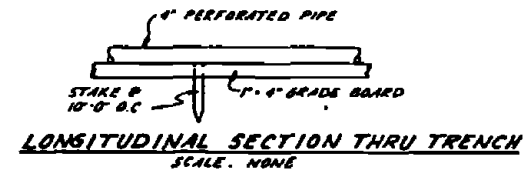
SECTION THRU TRENCH
SCALE 3/4" = 1'-0"



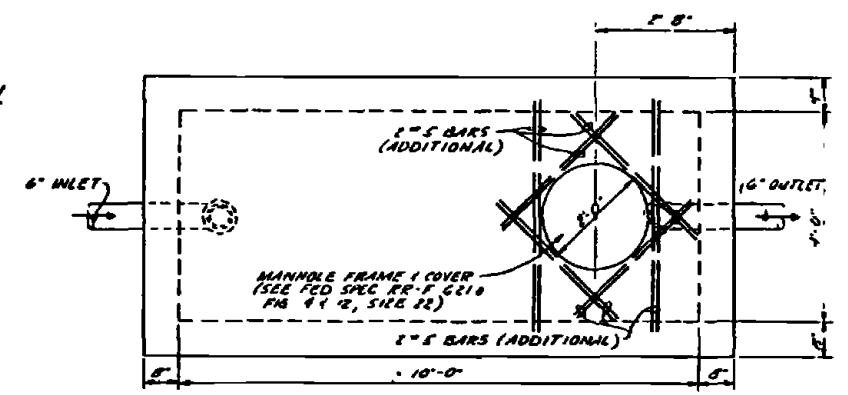
SECTION C-B3
SCALE 3/4" = 1'-0"



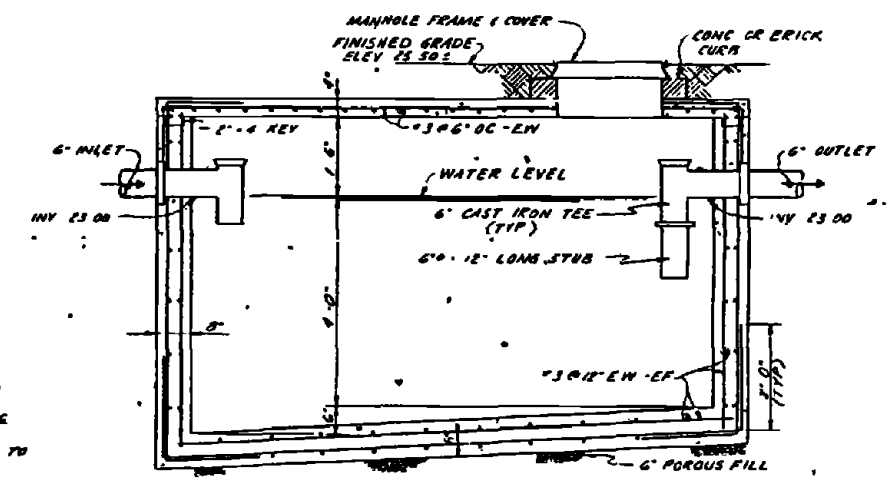
SECTION C-B3
SCALE 3/4" = 1'-0"



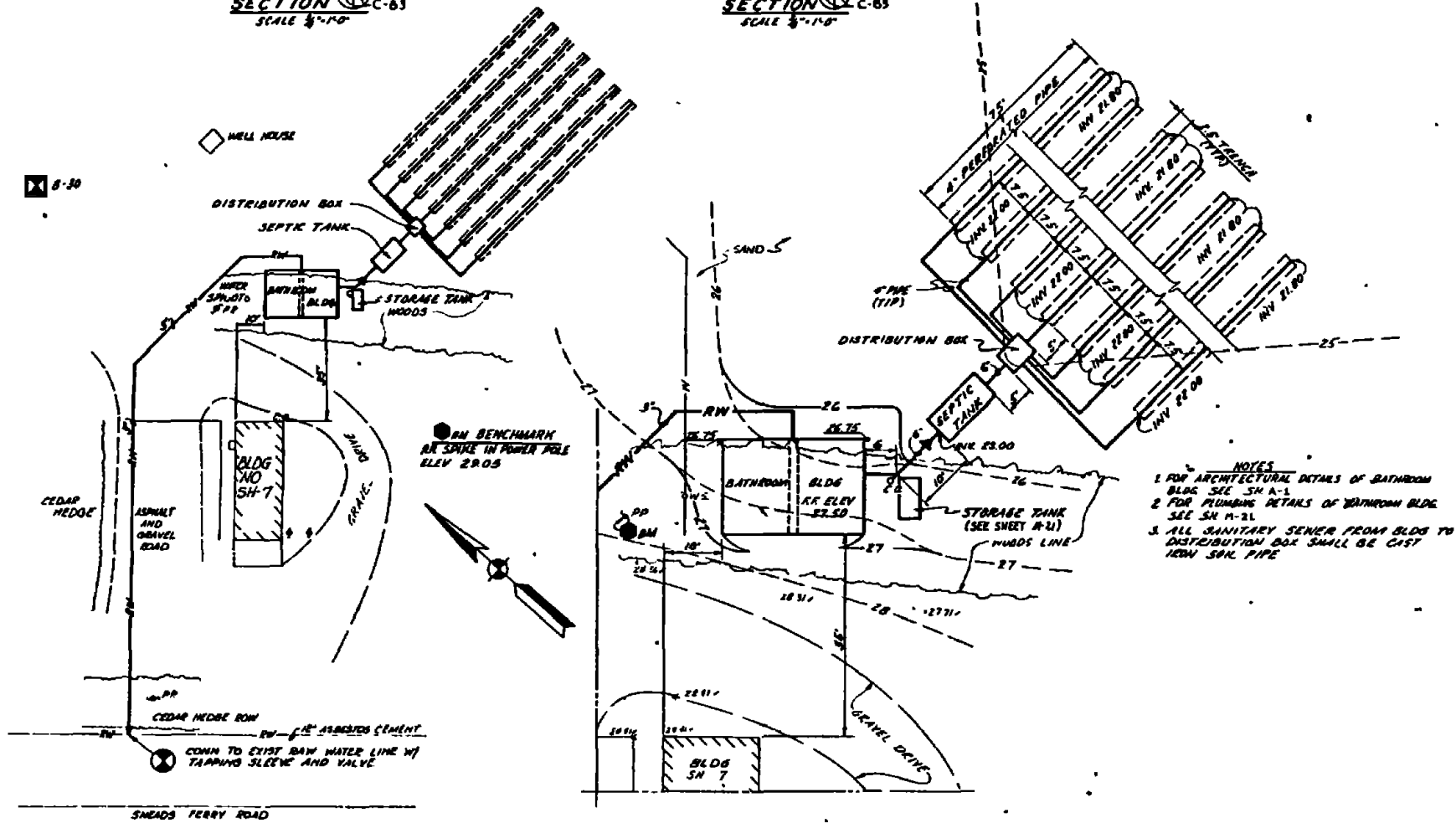
LONGITUDINAL SECTION THRU TRENCH
SCALE: NONE



PLAN OF SEPTIC TANK
SCALE 3/4" = 1'-0"



SECTION OF SEPTIC TANK
SCALE 3/4" = 1'-0"



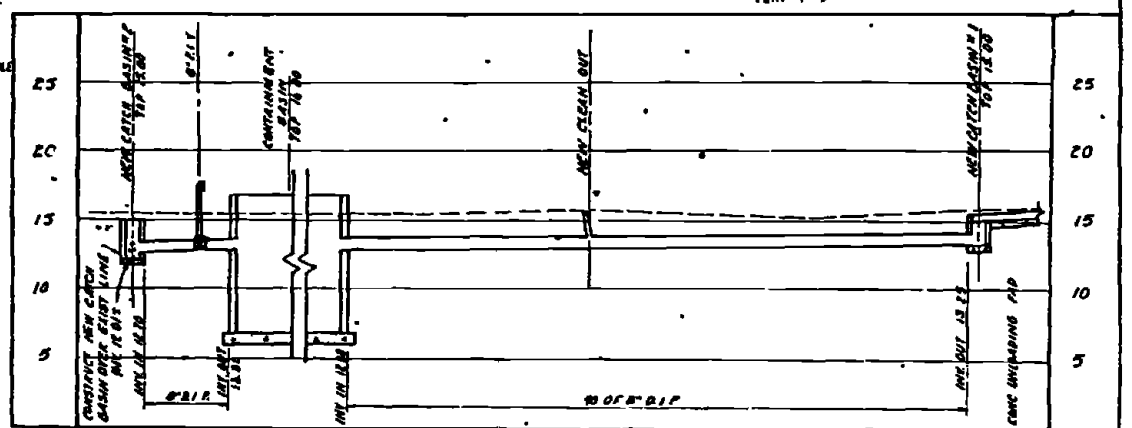
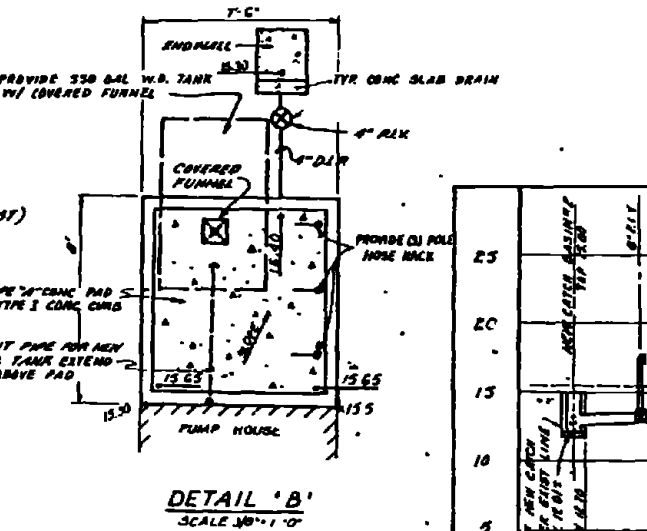
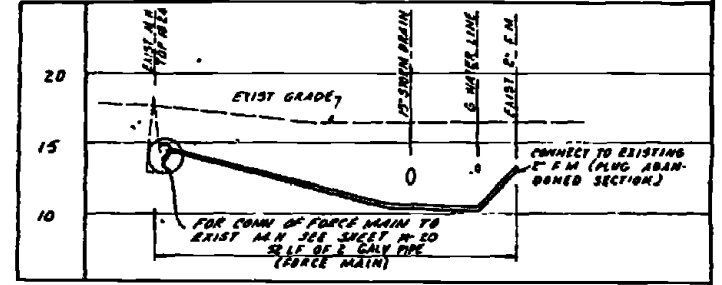
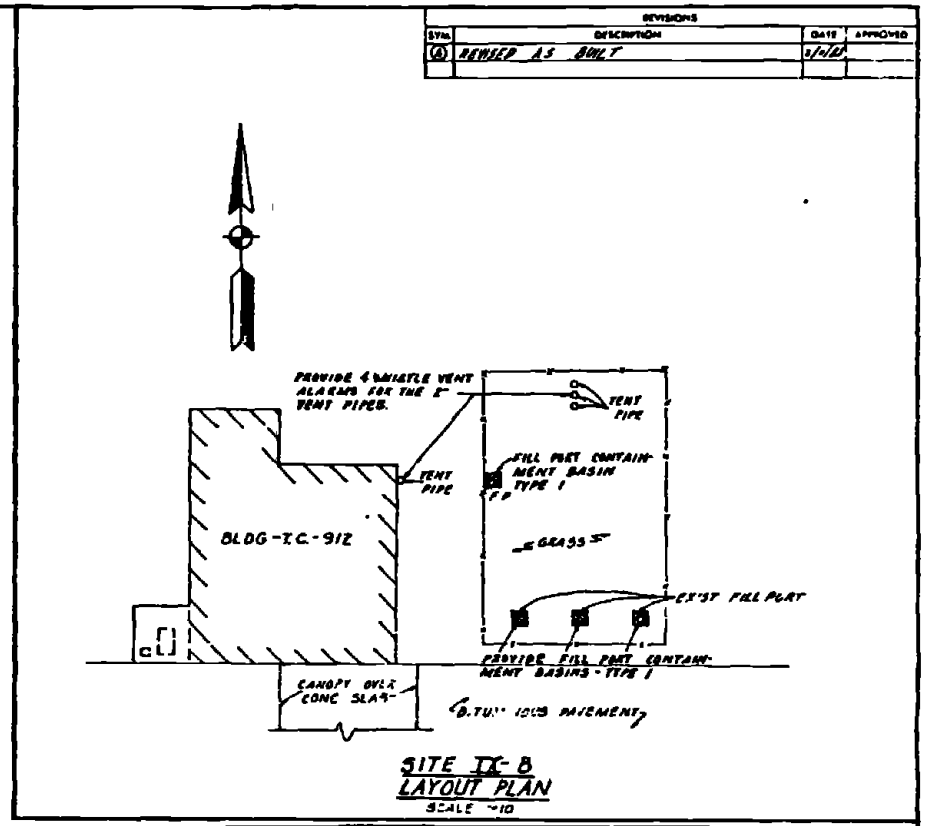
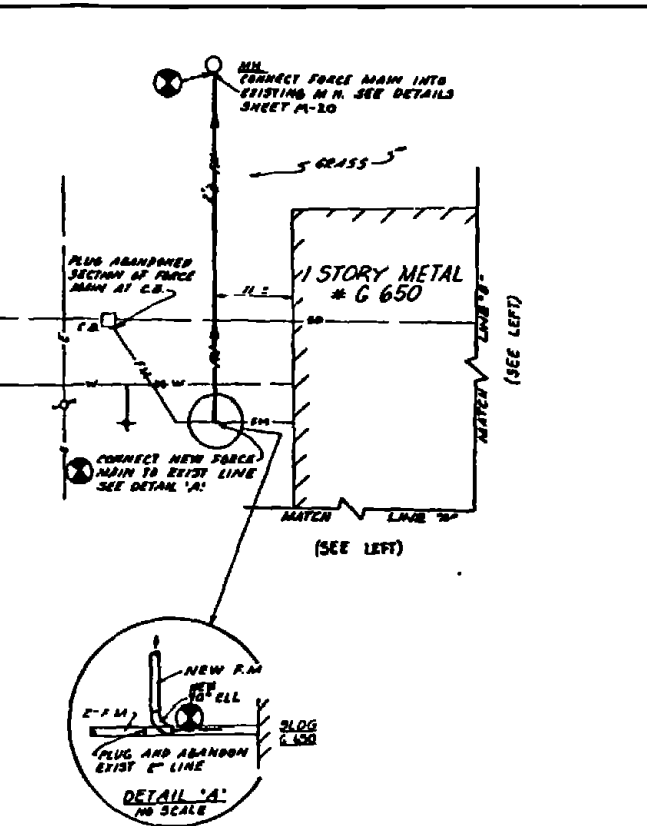
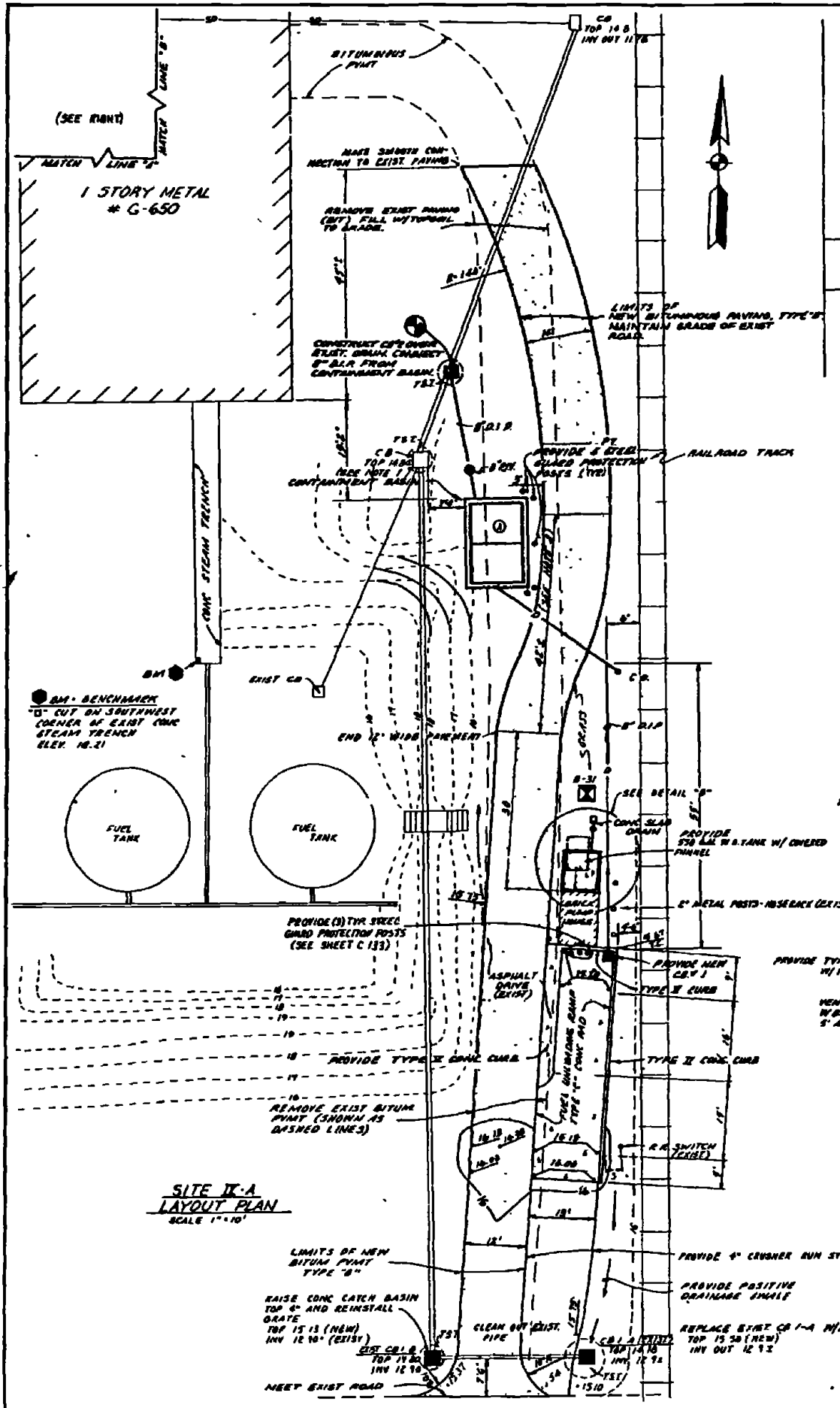
LAYOUT & GRADING PLAN - VIII-1
SCALE 1" = 10'

- NOTES**
1. FOR ARCHITECTURAL DETAILS OF BATHROOM BLDG SEE SH A-1.
 2. FOR PLUMBING DETAILS OF BATHROOM BLDG SEE SH A-2.
 3. ALL SANITARY SEWER FROM BLDG TO DISTRIBUTION BOX SHALL BE CAST IRON SAN. PIPE.

SITE VIII-1
SITE PLAN
SCALE 1" = 20'

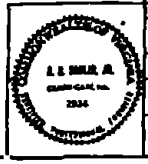
RECORD DRAWING NO. DATE FEB 11 1961	C-83
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineers 1117 W. 11th St. Fort Worth, Texas	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
PROJECT NO. 11-117 DATE 11/17/60 BY [Signature] CHECKED [Signature] APPROVED [Signature]	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & DETAILS - SITE VIII-1 CIVIL
SCALE 1" = 20'	SIZE CODE SHEET NO. F 80091
DATE 11/17/60	PROJECT NO. 11-117 TO D 8260 SHEET 93 OF 114

REV	DESCRIPTION	DATE	APPROVED
(5)	REVISED AS BUILT	1/10/80	

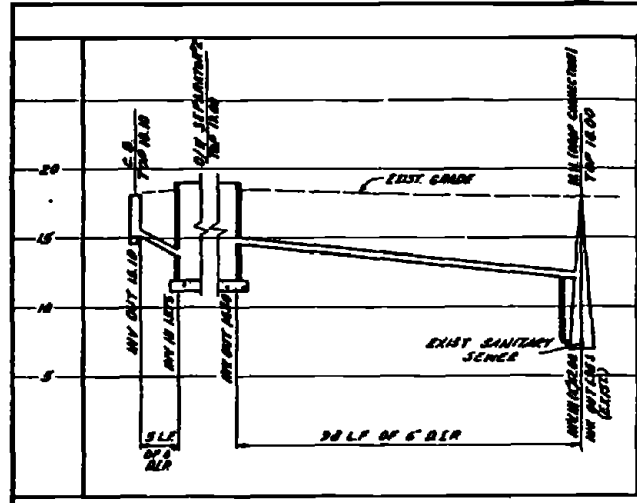


- NOTES**
1. CATCH BASIN AND ASSOCIATED DRAINAGE LINES ADJACENT TO NEW CONTAINMENT BASIN SHALL BE PROTECTED DURING CONSTRUCTION OF THE CONTRACTOR'S OPTION, HE MAY REMOVE THE C.B. AND NEARBY PIPING AND PROVIDE SAME UPON COMPLETION OF WORK AT THIS SITE CONTRACTOR MUST, HOWEVER, PROVIDE DRAINAGE FOR THE AREA AT ALL TIMES.
 2. SECTION OF ROADWAY WIDENING FROM 12 TO 14' IS A TRANSITIONAL SECTION OF PAVEMENT LOCATED JUST SOUTH OF NEW CONTAINMENT BASIN

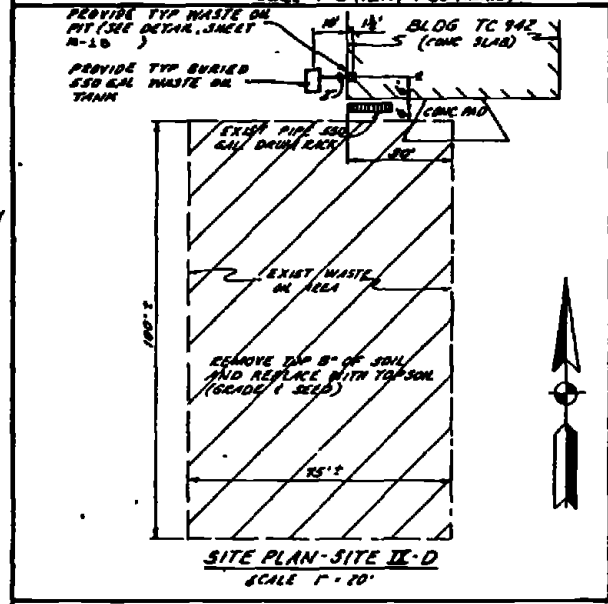
SECOND DRAWING	DATE	1 FEB 11 1981
J. L. MERRILL & ASSOCIATES MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		
ATLANTIC DIVISION INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITES IX-A & IX-B CIVIL		
PROJECT NO.	DATE	4052553
DATE	SCALE	AS SHOWN



REV.	DESCRIPTION	DATE	APPROVED

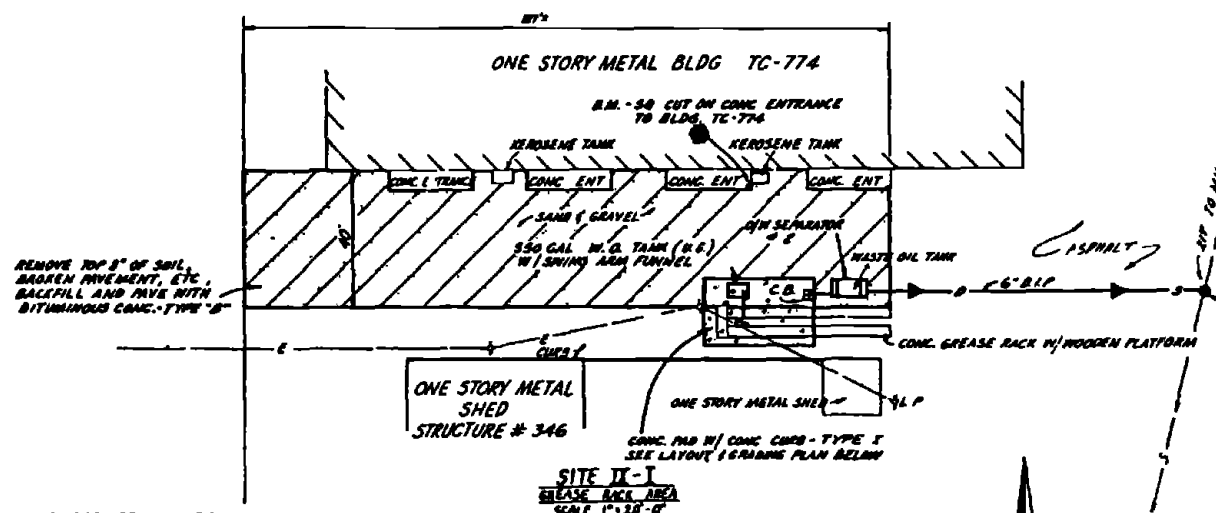


PROFILE - DRAIN LINE (SITE IX-1)
SCALE 1"=5' (VERT) 1"=20' (HORIZ)

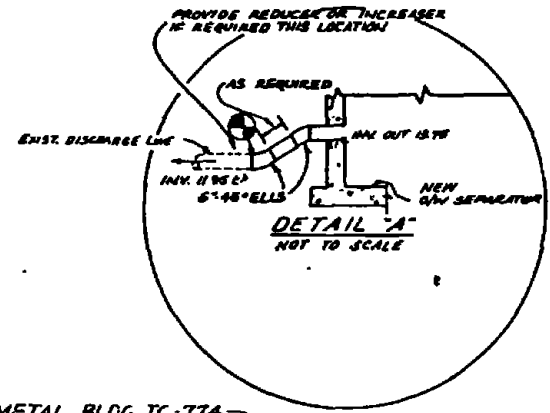


SITE PLAN - SITE IX-D
SCALE 1"=10'

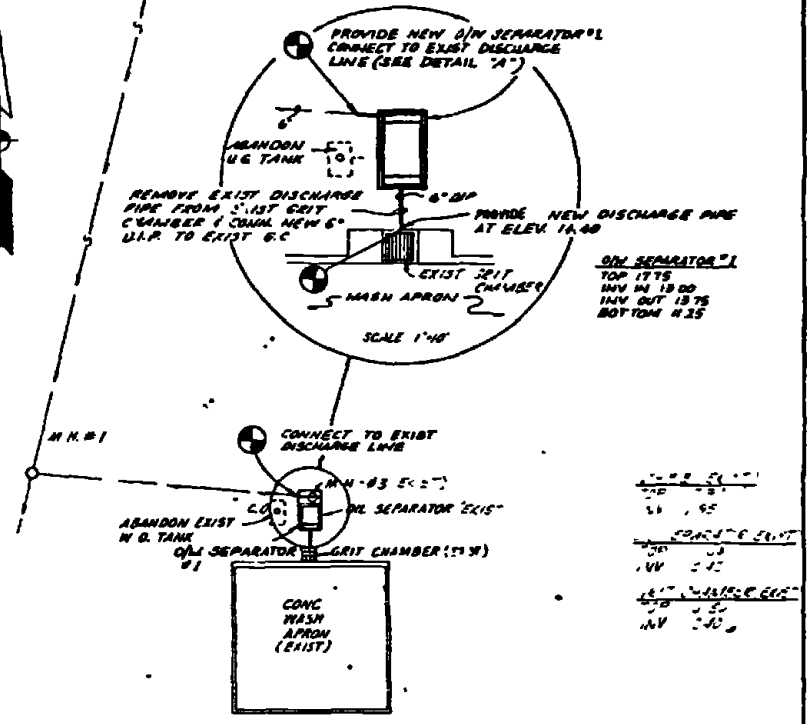
- NOTES:**
1. PROVIDE NEW CONCRETE PAD TYPE "B" WHERE INDICATED, BENEATH & AROUND THE EXIST GREASE RACK.
 2. CROSS HATCHED AREA INDICATES AREA TO BE PROVIDED WITH NEW BITUMINOUS PAVEMENT - TYPE "B".
 3. CONTRACTOR SHALL MOVE EXIST WOODEN PLATFORM AROUND EXIST GREASE RACK PRIOR TO CONSTRUCTION OF NEW CONC SLAB FOLLOWING CONSTRUCTION. CONTRACTOR SHALL REPLACE WOODEN PLATFORM TO ITS ORIGINAL LOCATION.



LAYOUT AND GRADING PLAN GREASE RACK AREA - SITE IX-1
SCALE 1"=10'

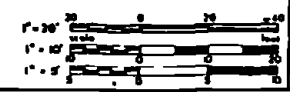


DETAIL "A"
NOT TO SCALE



SITE IX-1 LAYOUT PLAN
SCALE 1"=10'

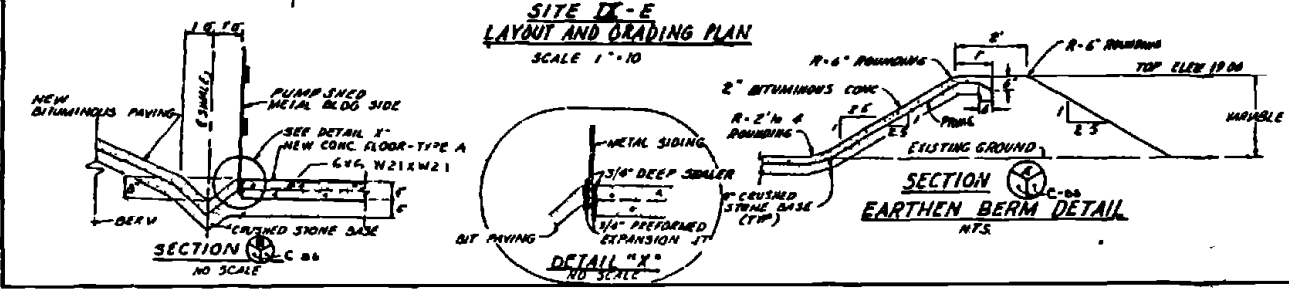
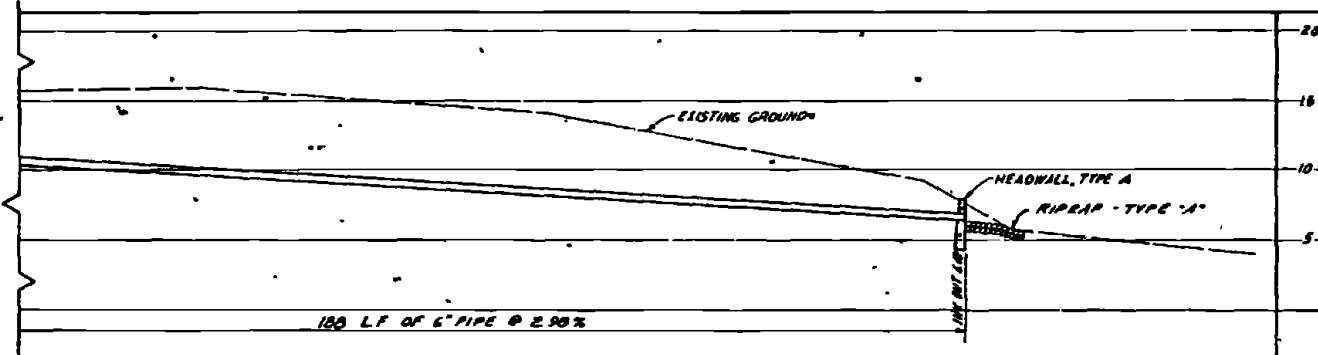
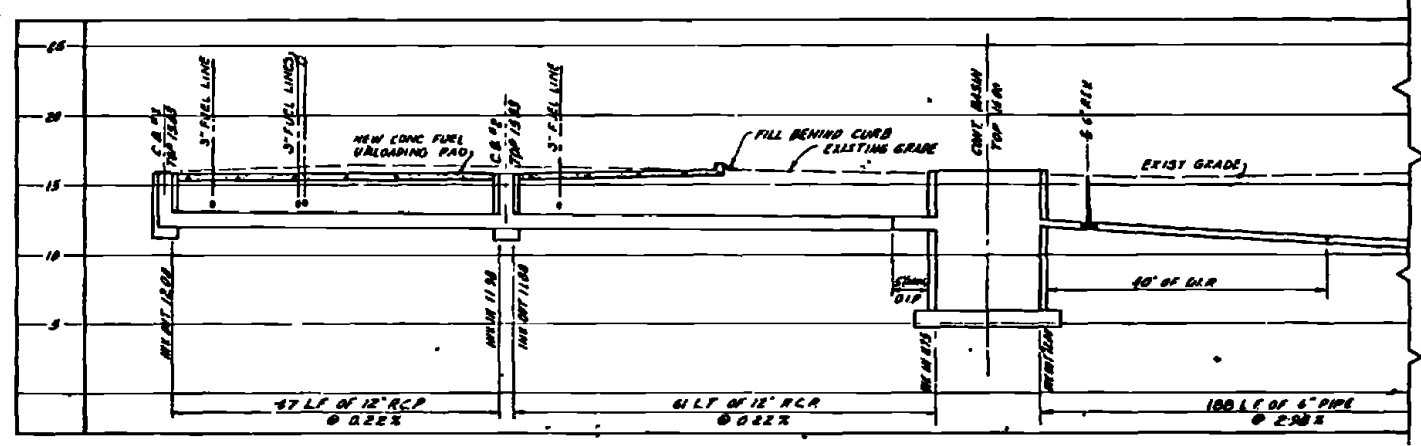
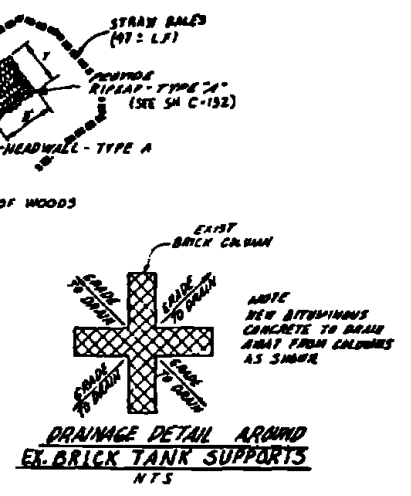
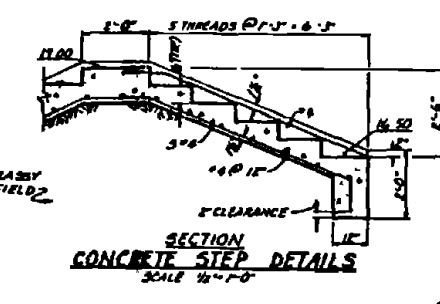
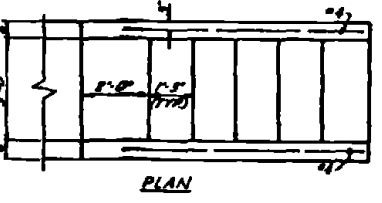
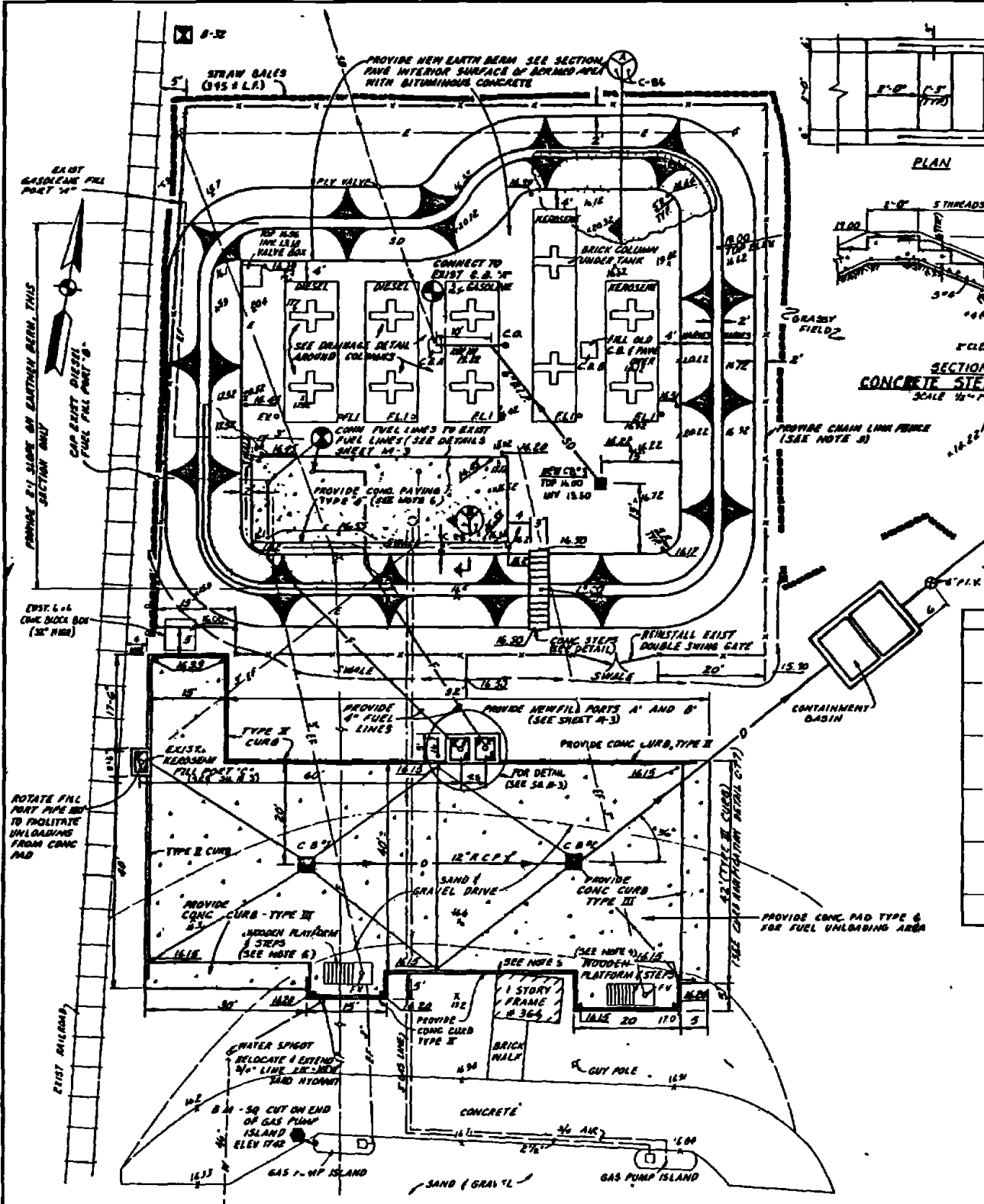
RECORD DRAWING DATE: FEB 11 1951		C-85	
AUSTIN BROCKBROUGH AND ASSOCIATES ENGINEERS		ATLANTIC DIVISION NORTH CAROLINA	
PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILE - SITES IX-D & IX-1		DRAWING NO: 4052554	
SHEET NO: F 80091		DATE: FEB 11 1951	



REV.	DESCRIPTION	DATE	APPROVED

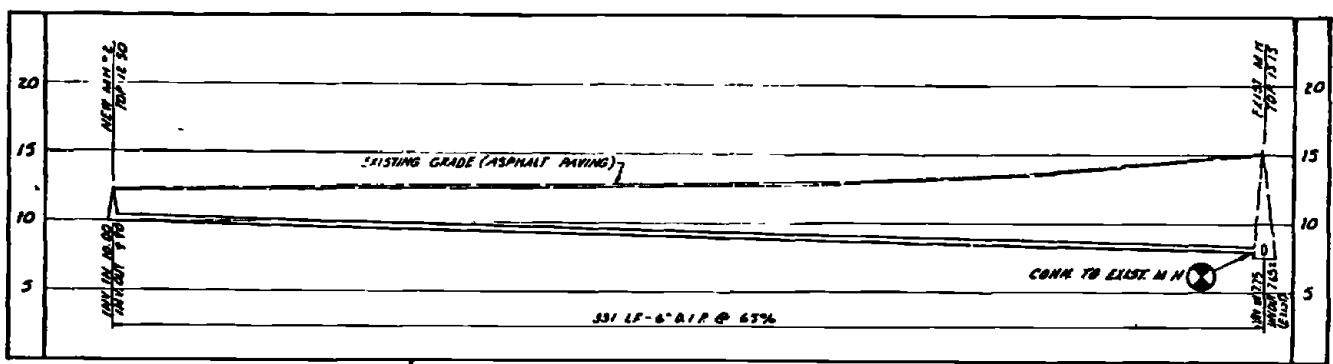
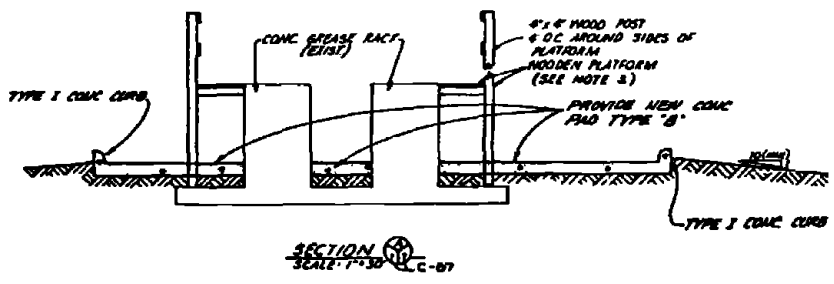
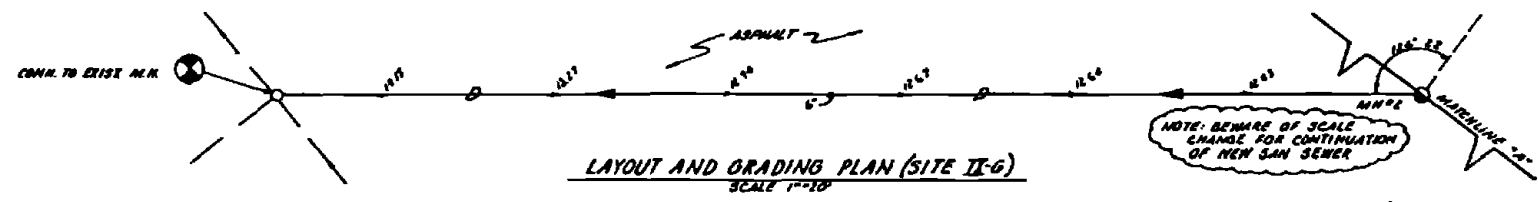
NOTES

- EXIST BEAM INDICATED BY SPOT GRADES SHALL BE REMOVED
- REMOVE EXIST CHAIN LINK FENCE AND REUSE AT THE NEW LOCATION SHOWN
- NEW CHAIN LINK FENCE SHALL BE ADDED AS REQ'D (APPROX 100 LIN. FT.)
- CONTRACTOR SHALL EXERCISE EXTREME CARE IN LOCATING EXIST UTILITIES
- EXIST UTILITIES SHALL BE LOCATED PRIOR TO CONSTRUCTION
- CONTRACTOR SHALL DISMANTLE TWO WOODEN FUELING PLATFORMS NEXT TO BLDG #364 AND REASSEMBLE IN NEW CONC PAD
- CONTRACTOR SHALL MAINTAIN 6" CLEARANCE BETWEEN CONC CURB AND EXIST BLDG #364
- EXIST PUMP SHED INSIDE BERMED AREA IS NOT SHOWN FOR CLARITY CONTRACTOR SHALL PROVIDE CONC SLAB FOR PUMP SHED AREA AS SHOWN ON SHEET
- INSIDE OF BERMED AREA SHALL BE PAVED WITH NEW BITUMINOUS CONCRETE AS SHOWN IN SECTION C-86. ALL DRAINAGE FROM BERMED AREAS SHALL DRAIN TO NEW C-85 EXIST C-86



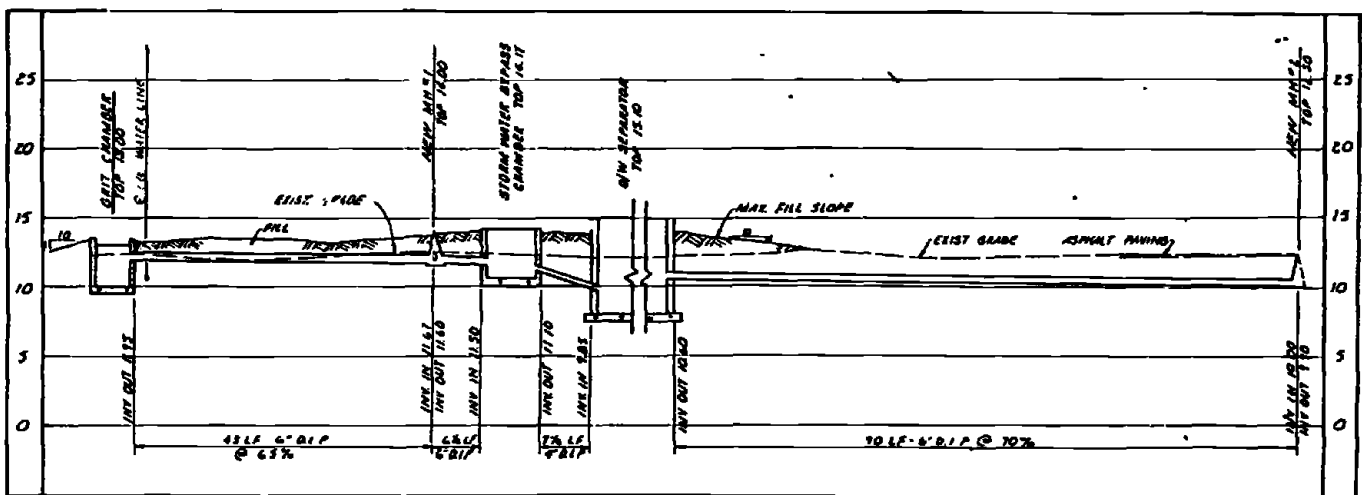
RECORD DRAWING		C-86	
DATE: FEB 11 E			
ALSTON BROOKSBROUGH AND ASSOCIATES PROJECT NO. 014 DATE: 11/17/01 DRAWN BY: J. B. BIRD CHECKED BY: J. B. BIRD APPROVED BY: J. B. BIRD		DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & PROFILES - SITE IX-E CIVIL DRAWING NO. 4052555 CONSTRUCTION NO. 4052555 SHEET NO. 114	

REV	DESCRIPTION	DATE	APPROVED
(0)	REVISED AS NOTED	2/1/81	

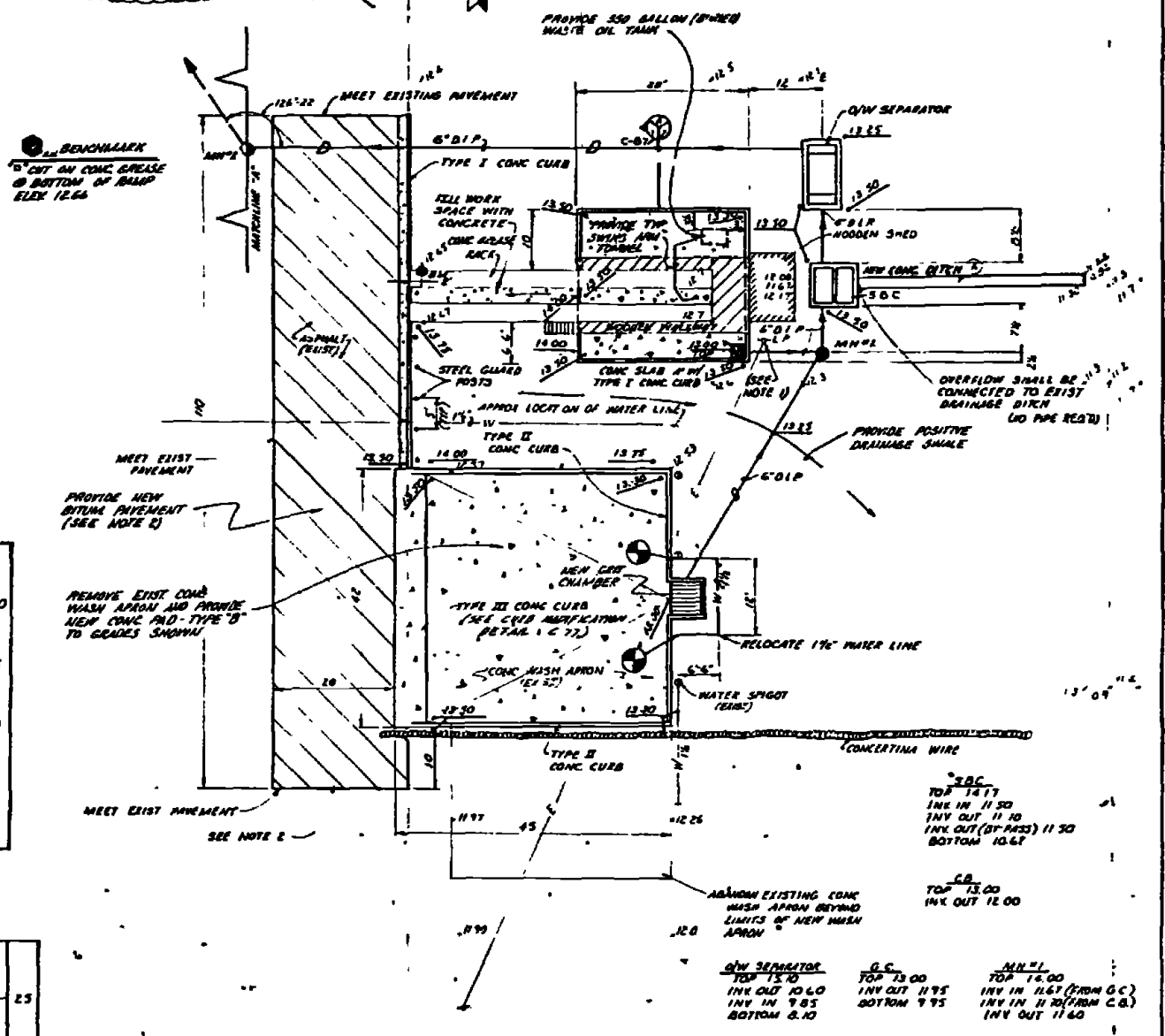


PROFILE - WASHWATER DRAINAGE (SITE IX-G)
SCALE VERTICAL 1"=5', HORIZONTAL 1"=10'

NOTE: SCALE CHANGE IN PROFILES



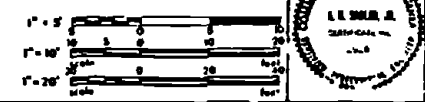
PROFILE - WASHWATER DRAINAGE (SITE IX-G)
SCALE VERTICAL 1"=5', HORIZONTAL 1"=10'



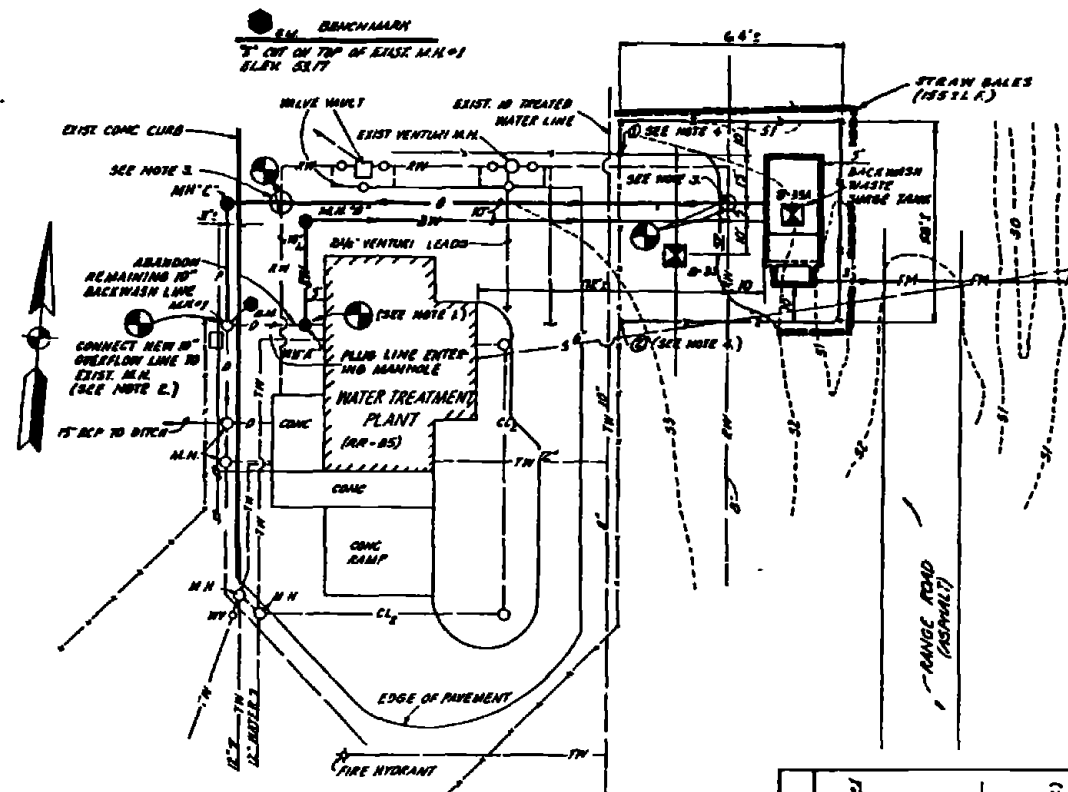
- NOTES
- CONTRACTOR SHALL PROTECT AND SUPPORT POWER POLE NEXT TO GREASE RACK DURING CONSTRUCTION.
 - REMOVE EXISTING BROKEN ASPHALT PAVEMENT IN PATCHED AREA FILL AND PAVE WITH NEW BITUMINOUS CONCRETE - TYPE 'B' TO NEW GRADES.
 - CONTRACTOR MAY REMOVE WOODEN PLATFORM DURING CONSTRUCTION OF THE CONCRETE PAD AND REINSTALLED AFTER COMPLETION (CONTRACTOR'S OPTION).

LAYOUT AND GRADING PLAN (SITE IX-G)
SCALE 1"=10'

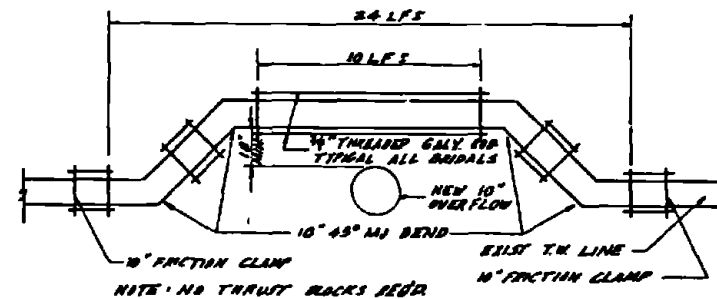
RECORD DRAWING DATE FEB 1 1981		C-87	
AMERIN BROOKSBROUGH AND ASSOCIATES CIVIL ENGINEERS 1015 W. G.W.A. BLVD. RICHMOND, VA 23220		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK STATION NORFOLK, VIRGINIA NAVY CORPS BASE CAMP LEAUE, NORTH CAROLINA	
PROJECT NO. G.W.A. 04-183		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & PROFILES - SITE IX-G CIVIL	
DRAWN BY: G.W.A. 01/79 CHECKED BY: G.W.A. 01/79 DATE: 01/79		SHEET NO. 4 OF 11	
PROJECT NO. 80091		DRAWING NO. 4052556	
DATE: 02/01/81		CONTRACT NO. N62110-76-B-8268	
SCALE: 1"=10'		SHEET NO. 4 OF 11	



REV.	DESCRIPTION	DATE	APPROVED
①	PERSEPT AS BUILT	8/1/88	

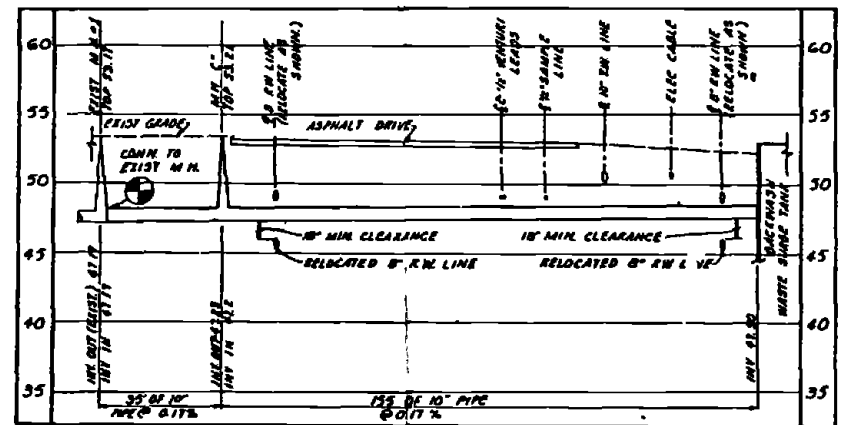


- NOTES**
1. CONTRACTMAN "A" DIRECTLY OVER EXIST. 10" DRAIN LINE FROM BLDG. CONNECT NEW 10" BACKWASH LINE TO M.H.P. AND PLUG AND ABANDON REMAINING DRAIN LINE TO THE EXIST. M.H.
 2. CONNECT NEW 10" OVERFLOW LINE TO EXIST. M.H.'S AS SHOWN PLUS EXIST. 10" DRAIN LINE ENTERING THE MANHOLE.
 3. CONTRACTOR SHALL LOWER THE EXIST. 6" RAW WATER LINE AS REQUIRED TO ALLOW FOR CONSTRUCTION OF NEW 10" OVERFLOW LINE.
 4. EXIST. FENCE LOCATED BETWEEN POINTS ① AND ② SHALL BE REMOVED. NEW FENCE SHALL BE PROVIDED AS SHOWN.
 5. FOR DETAILS OF BACKWASH SURGE TANK, SEE SHEETS M-12 & M-13.

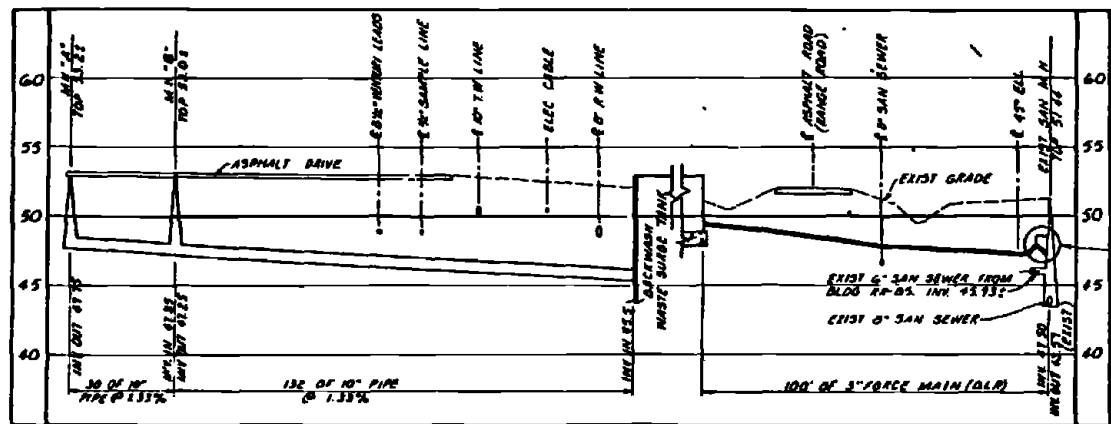


③ **RELOCATION EXIST. TW LINE**
SITE X-1
R.T.3

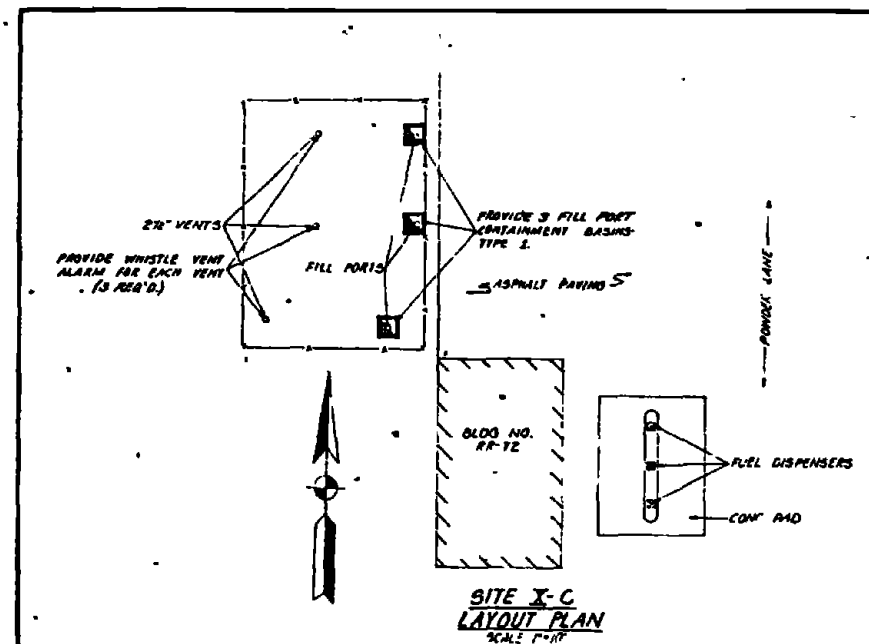
SITE X-1
LAYOUT PLAN
SCALE 1"=20'



PROFILE- 10" OVERFLOW LINE
SCALE VERT 1"=5', HOR 1"=20'



PROFILE- 10" BACKWASH LINE AND 3" FORCE MAIN
SCALE HOR 1"=20', VERT 1"=5'



SITE X-C
LAYOUT PLAN
SCALE 1"=10'

FOR TYP DETAIL OF FORCE MAIN CONC. TO EXIST. M.H. SEE SHEET M-20

RECORD DRAWING
DATE FEB 11 1983
C-89

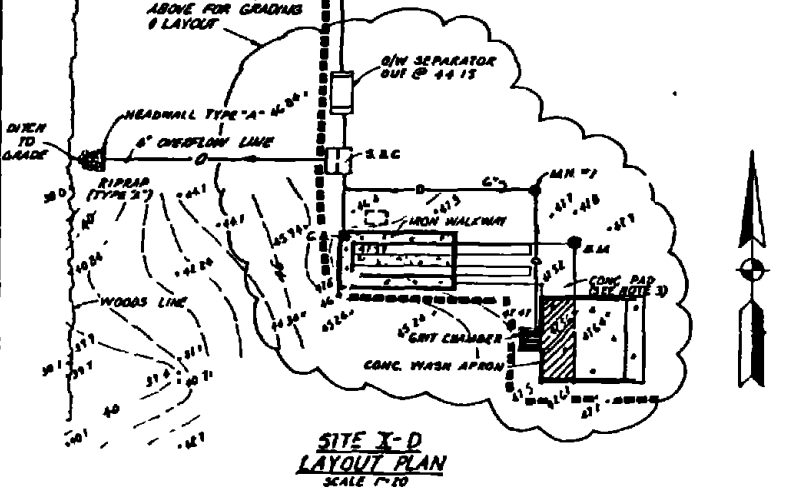
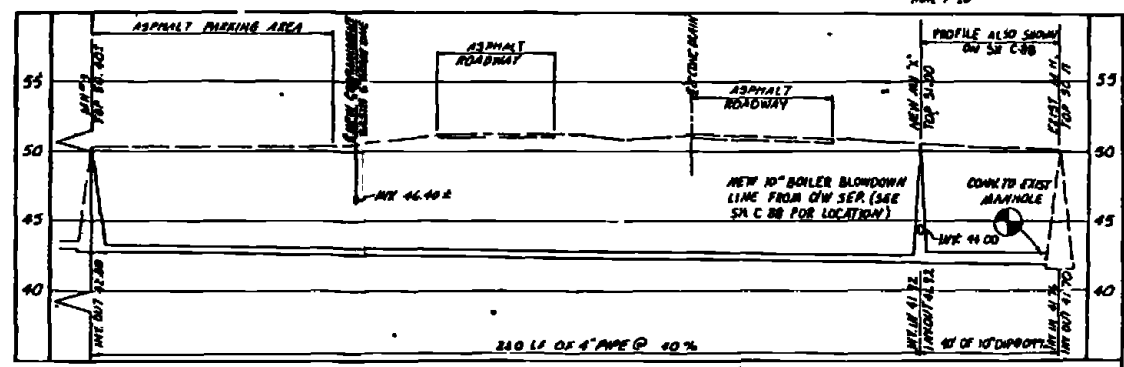
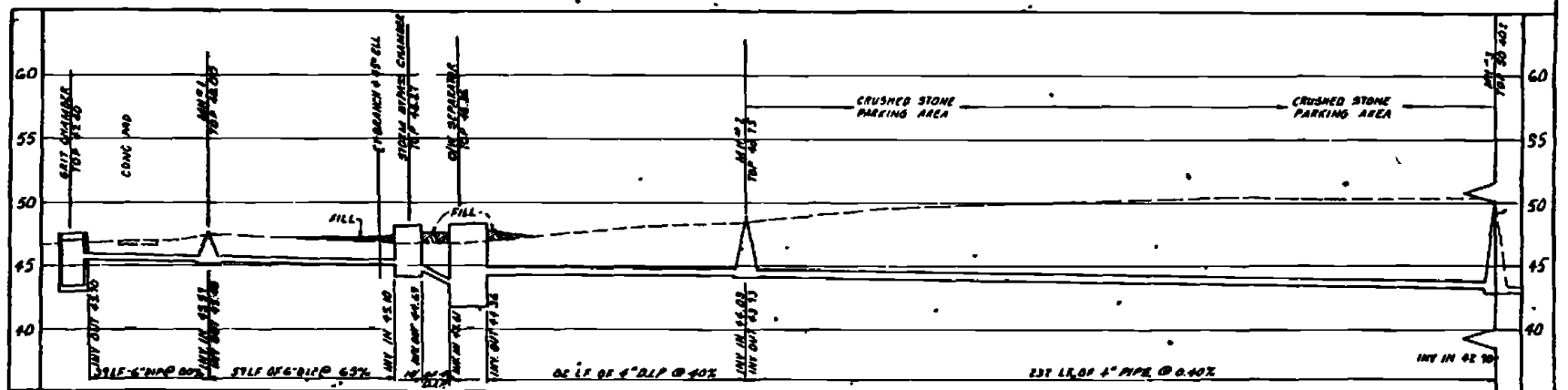
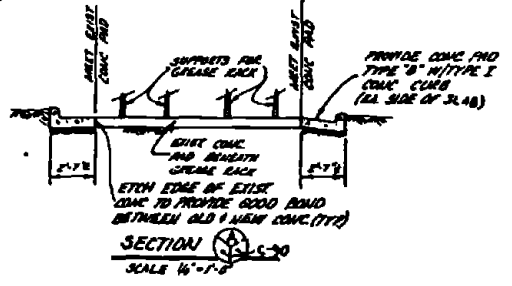
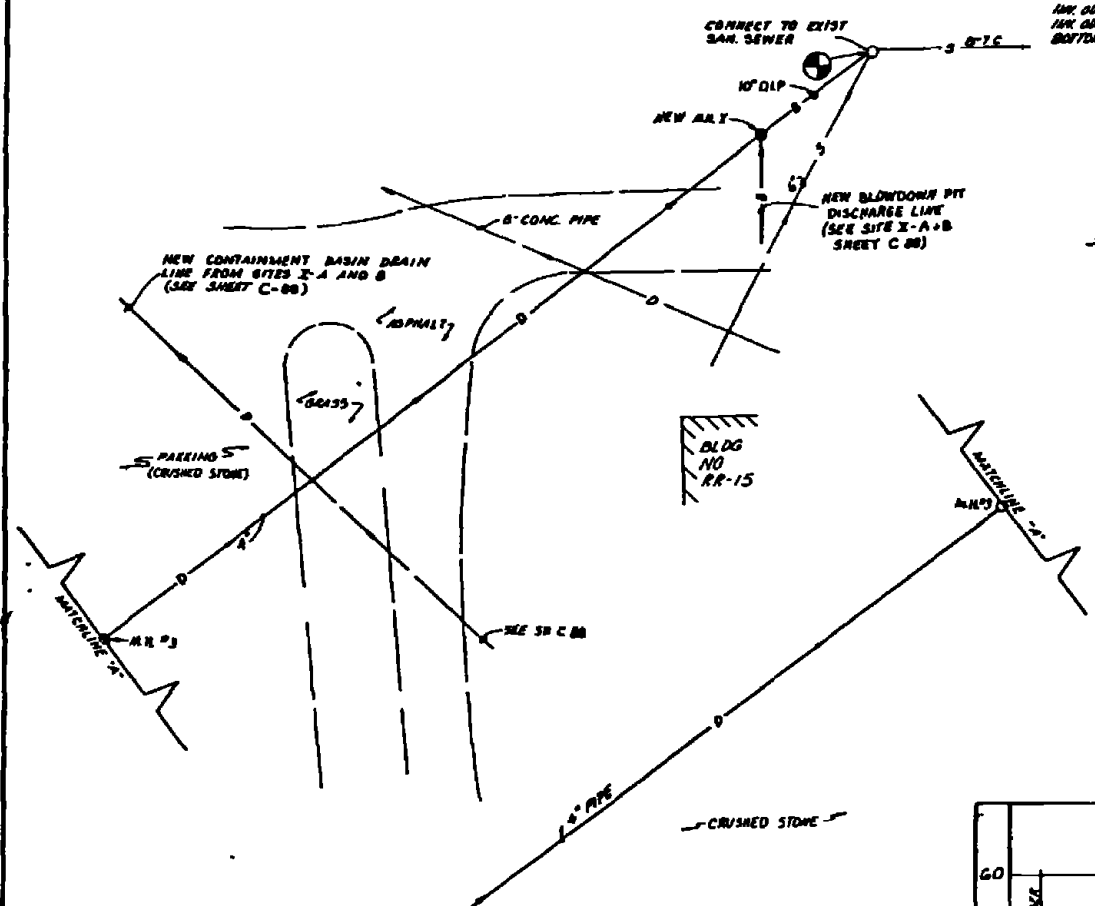
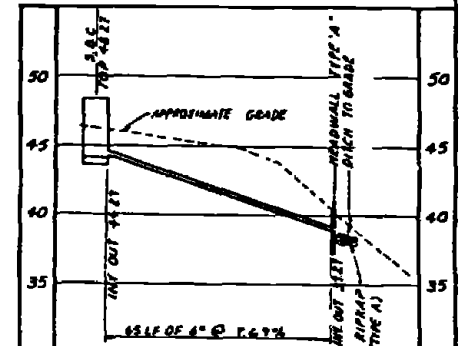
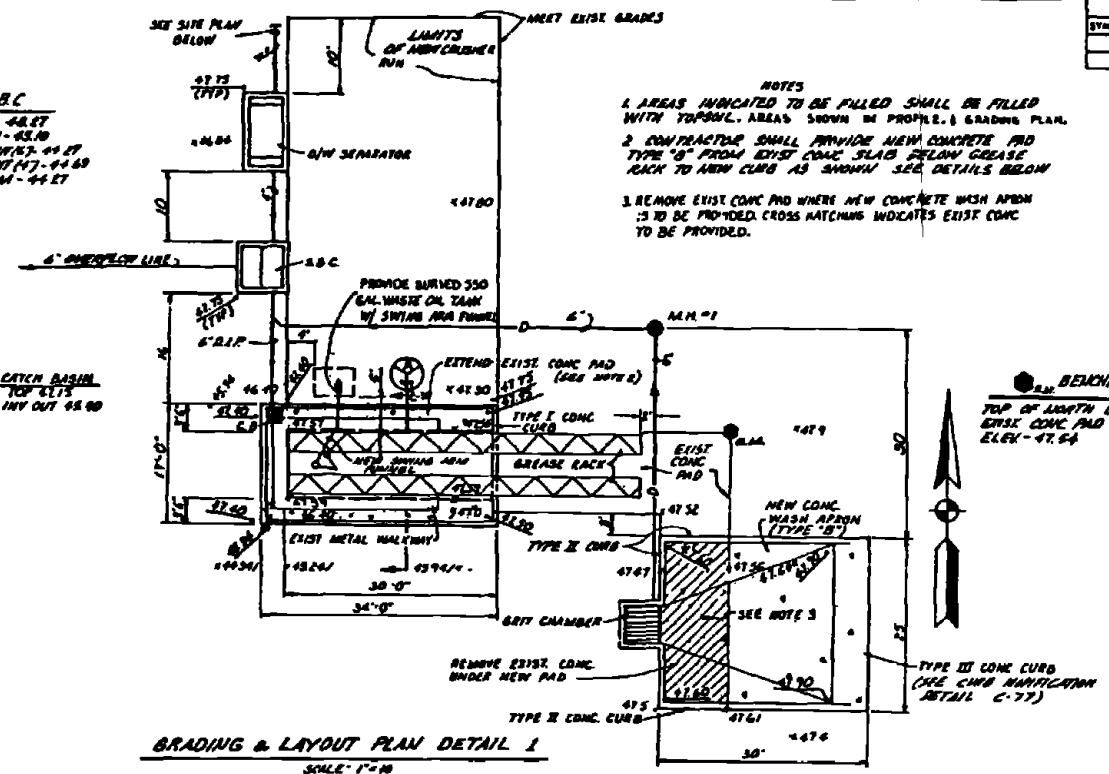
AUSTIN BROCKENBROUGH AND ASSOCIATES Professional Engineers 2938 12718/179 12/19/83	DEPARTMENT OF THE ARMY ATLANTIC DIVISION
	NAVY FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
	SITE P.LANS & PROFILES-SITES X C & X-I CIVIL
APPROVED: [Signature]	DATE: [Date]
PROJECT NO. 80091	DRAWING NO. 405255A
SCALE AS SHOWN	DATE: 05-78 0160

SCALE: 1"=20' (PLAN), 1"=5' (PROFILE)

DATE	DESCRIPTION	DATE	APPROVED

S.B.C.
 TOP - 48.27
 INV IN - 95.10
 INV OUT - 49.27
 INV OUT - 44.60
 BOTTOM - 44.27

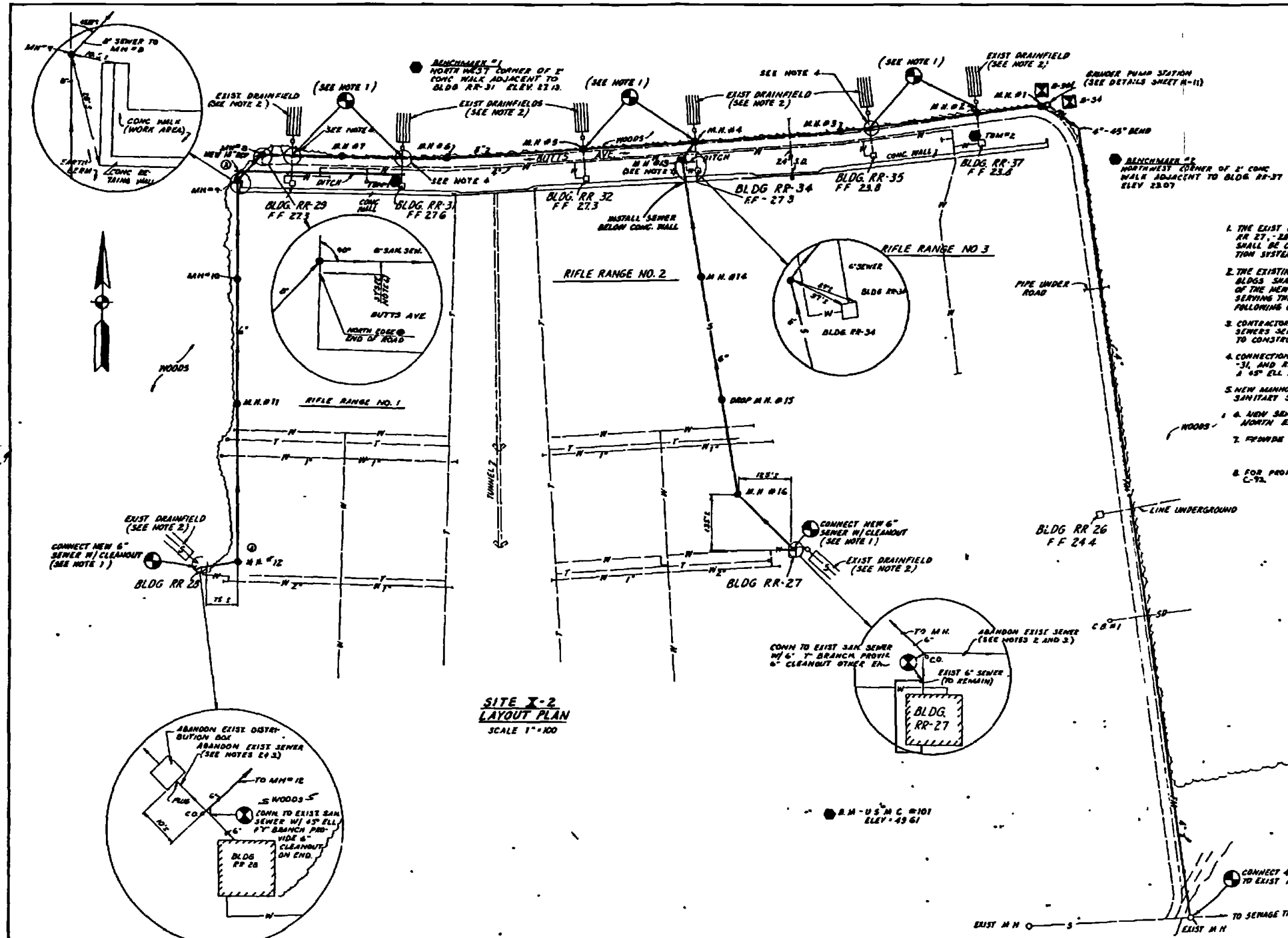
- NOTES**
1. AREAS INDICATED TO BE FILLED SHALL BE FILLED WITH TOPSOIL. AREAS SHOWN IN PROFILE & GRADING PLAN.
 2. CONTRACTOR SHALL PROVIDE NEW CONCRETE PAD TYPE "B" FROM EXIST CONC SLAB BELOW GREASE RACK TO NEW CURB AS SHOWN. SEE DETAILS BELOW.
 3. REMOVE EXIST CONC PAD WHERE NEW CONCRETE WASH APRON IS TO BE PROVIDED. CROSS HATCHING INDICATES EXIST CONC TO BE PROVIDED.



RECORD DRAWING DATE: FEB 11, 1974		C-90	
AUSTIN BROCKENBROUGH AND ASSOCIATES 1277 W. 13th St., Austin, Texas 78701		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION CAMP LEAUGUE, NORTH CAROLINA	
DESIGNER: J. L. JONES CHECKED: J. L. JONES DATE: 12/7/73		MARINE CORPS BASE CAMP LEAUGUE, NORTH CAROLINA INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITE X-D CIVIL	
DRAWN: J. L. JONES DATE: 12/7/73		SIZE: 11" x 17" (1/4" = 1'-0") CODE: 1111 NO. 4052559	
APPROVED: J. L. JONES DATE: 12/7/73		COMBAT CONTROL NO. 462470 11 B 0260 SCALE AS SHOWN UNLESS OTHERWISE NOTED SHEET 30 OF 174	



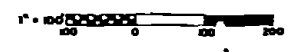
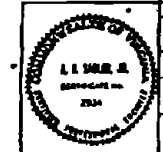
SYMBOL	DESCRIPTION	DATE	APPROVED
(S)	REVISION AS SHOWN	12-1-60	



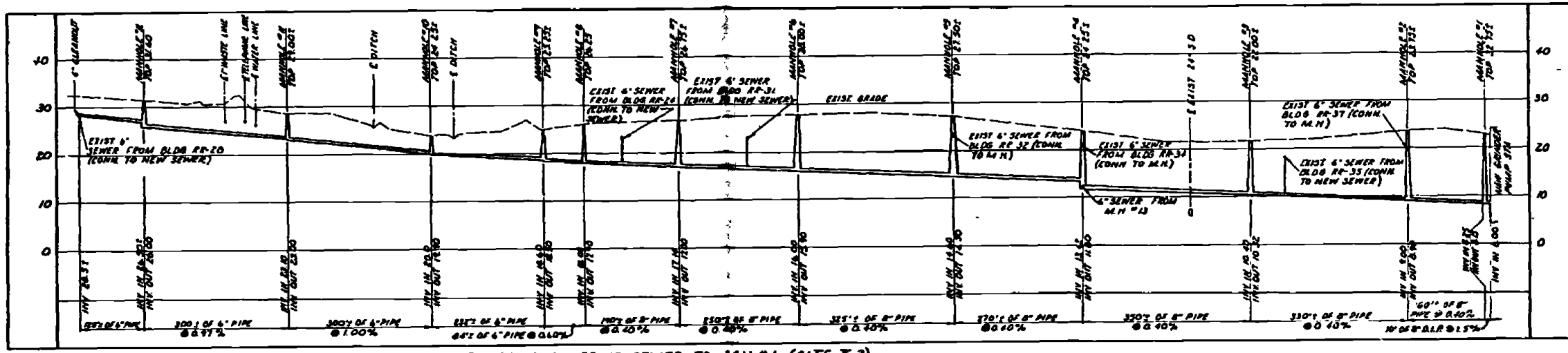
- NOTES**
1. THE EXIST 6" SANITARY SEWER LINES FROM BLDGS RR-27, -28, -29, -31, -32, -34, -35, AND RR-37 SHALL BE CONNECTED TO THE NEW SEWAGE COLLECTION SYSTEM.
 2. THE EXISTING DRAINFIELDS SERVING THE ABOVE MENTIONED BLDGS SHALL BE ABANDONED FOLLOWING COMPLETION OF THE NEW SEWAGE COLLECTION SYSTEM. EXISTING 6" LINES SERVING THE DRAINFIELD SHALL BE PLUGGED AND ABANDONED FOLLOWING CONNECTION TO THE NEW SEWER.
 3. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SANITARY SEWERS SERVING THE ABOVE MENTIONED BUILDINGS PRIOR TO CONSTRUCTION.
 4. CONNECTION OF EXIST SANITARY SEWER FROM BLDGS RR-29, -31, AND RR-35 TO MEN # SEWER SHALL BE MADE WITH 2 45° ELL AND 6" x 6" x 6" Y BRANCH.
 5. NEW MANHOLES SHALL BE CONSTRUCTED DIRECTLY OVER EXIST SANITARY SEWERS FROM BLDGS RR-29, -31, -34, AND RR-32.
 6. NEW SINKS SHALL BE LOCATED APPROXIMATELY 8' OFF NORTH EDGE OF PAVEMENT OF BUTTS AVENUE.
 7. PROVIDE A WATER-TIGHT MANHOLE COVER FOR M.N.#12.
 8. FOR PROFILES OF SEWERS AND FORCE MAIN, SEE SHEET C-72.

**SITE X-2
LAYOUT PLAN
SCALE 1"=100'**

RECORD DRAWING DATE FEB 11 1961		C-91	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS		NAVY FACILITY ENGINEERING COMMAND	
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN - SITE X-2 CIVIL	
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	DATE: 12-1-60	SCALE: AS SHOWN
APPROVED BY: [Signature]	DATE: 12-1-60	PROJECT NO: 4052560	SHEET 11 OF 17
F 80091		CONTRACT NO: N62410-18-D-8268	
SCALE AS SHOWN		DATE: 05 18 62	

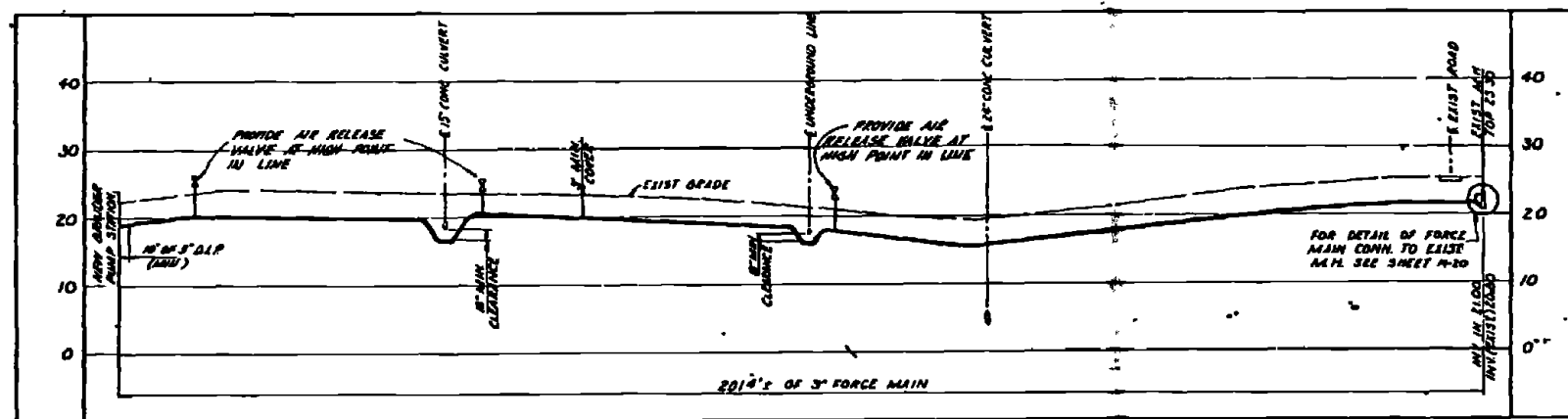


REVISIONS		DATE	APPROVED
0	REVISED AS BUILT	2/2/21	

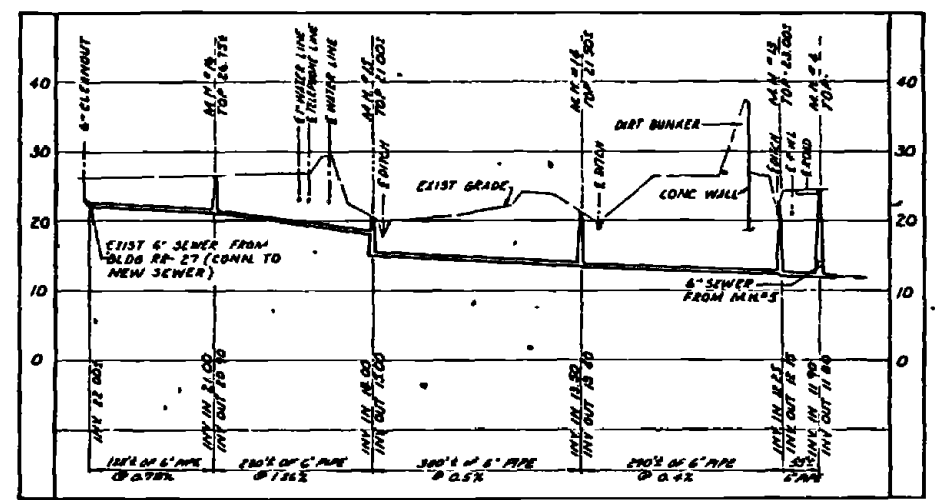


PROFILE-BLDG. RR-20 SEWER TO M.H. #1 (SITE X-2)
SCALE VERT 1"=10', HOR 1"=100'

NOTE: GRAVITY PIPING FOR SITE X-2 SHALL BE EXTRA STRENGTH CLAY PIPE EXCEPT WHERE INDICATED OTHERWISE



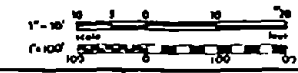
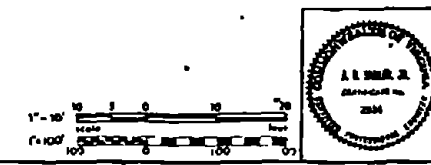
PROFILE-3" FORCE MAIN (SITE X-2) @
SCALE VERT 1"=10', HOR 1"=100'



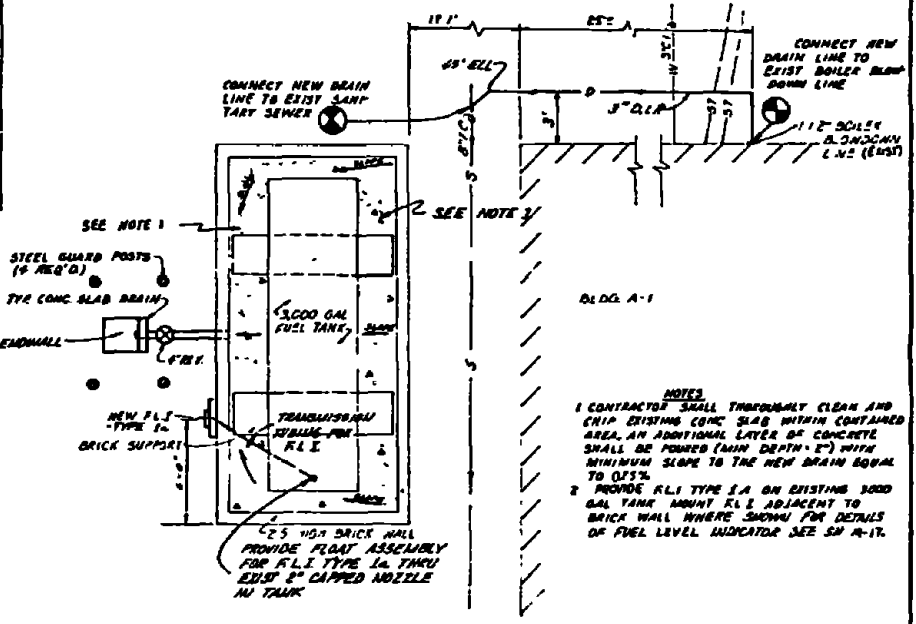
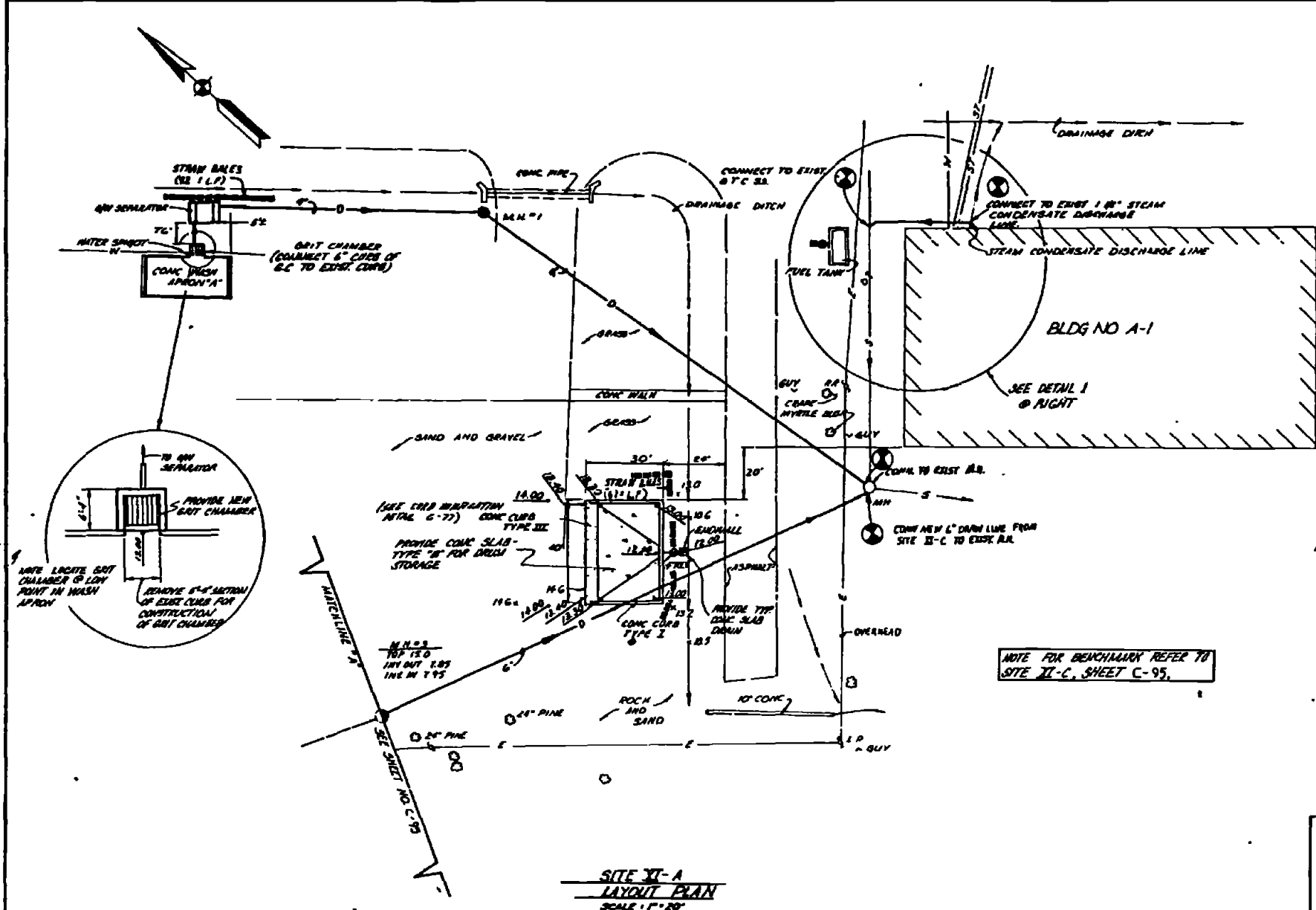
PROFILE-BLDG RR-27 SEWER TO M.H. #4 (SITE X-2)
SCALE VERT 1"=10', HOR 1"=100'

FOR PLAN VIEWS SEE SHEET C-91

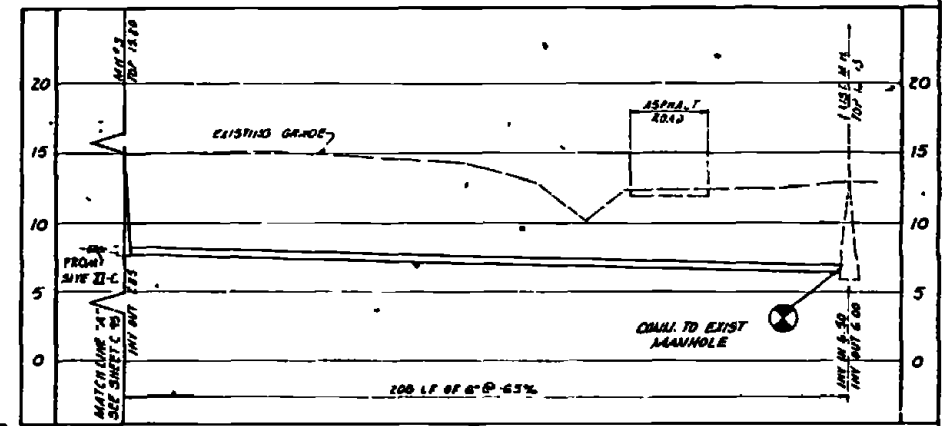
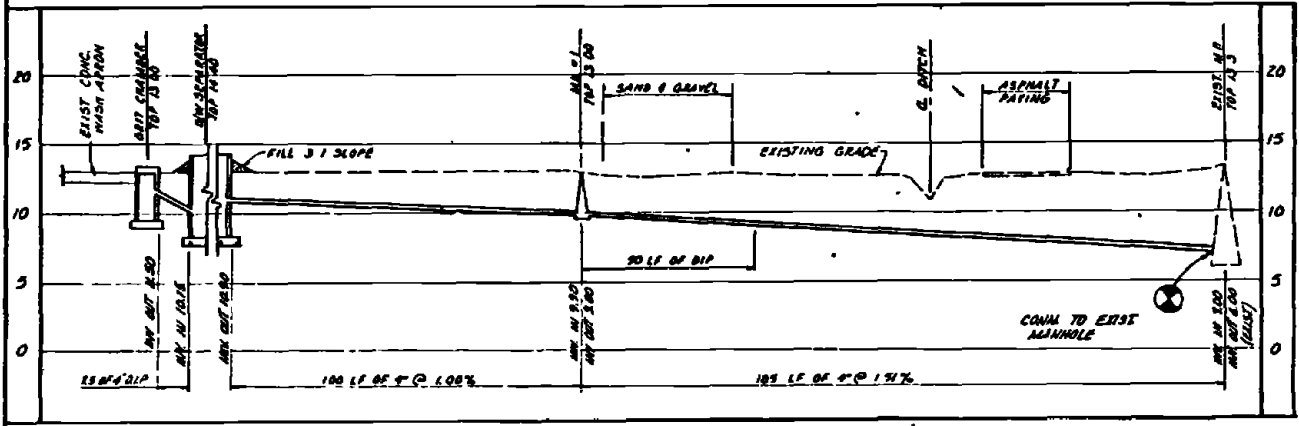
RECORD DRAWING DATE FEB 2021	C-92
AUSTIN BROCKENBROUGH AND ASSOCIATES 11111 N. ... 12/10/20	Department of the Navy NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEASURE, NORTH CAROLINA
PROJECT NO. 1610-20	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PROFILES-SITE X-2 CIVIL
4052561	
F 80091	



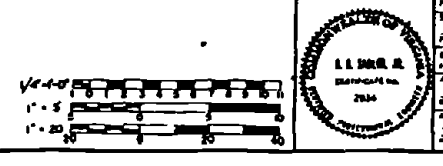
REV	DESCRIPTION	DATE	APPROVED



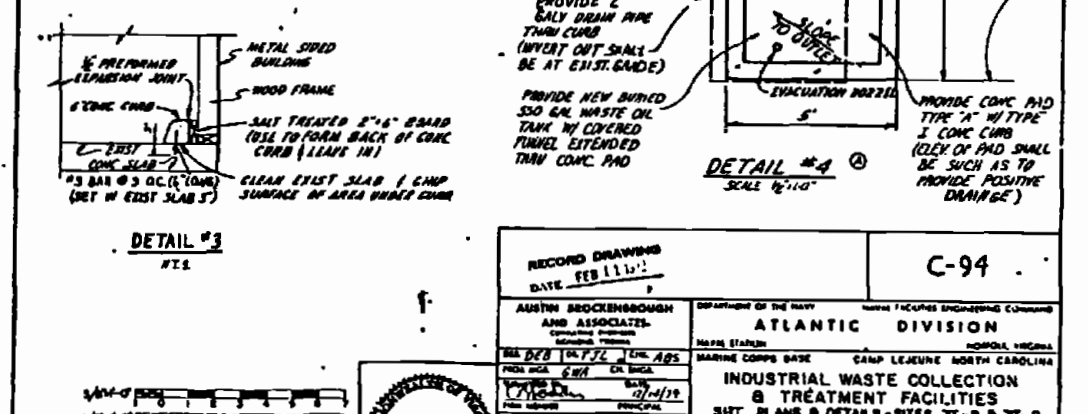
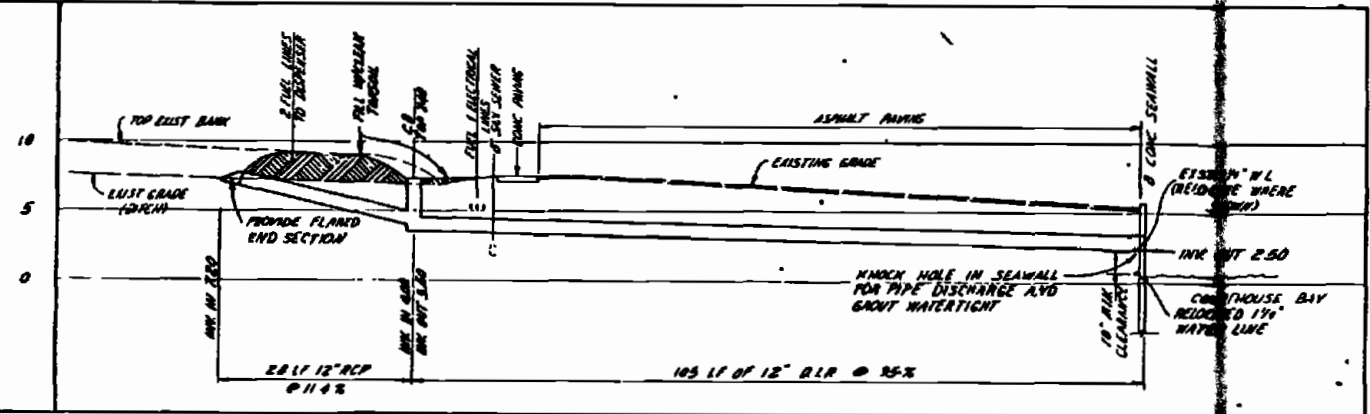
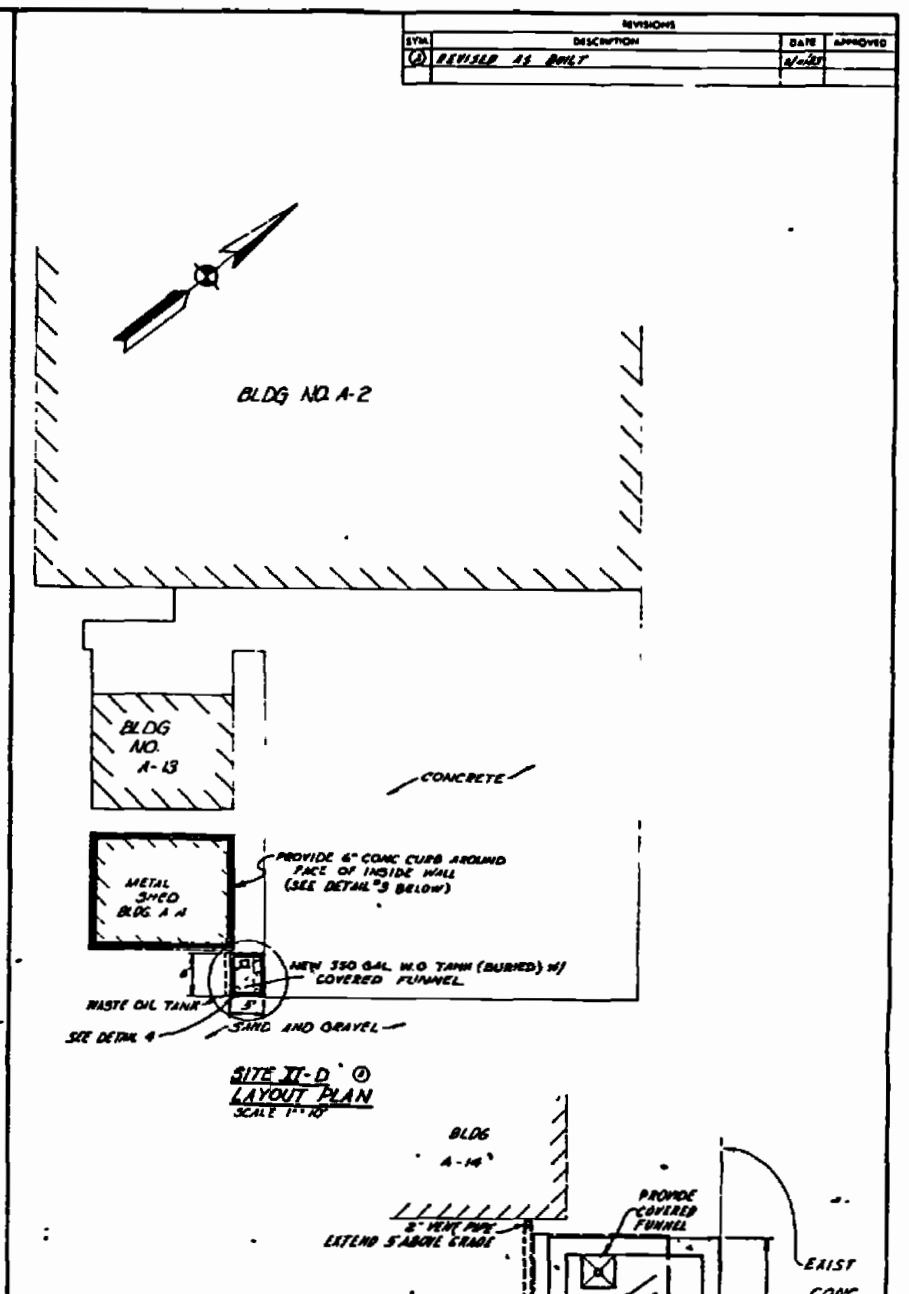
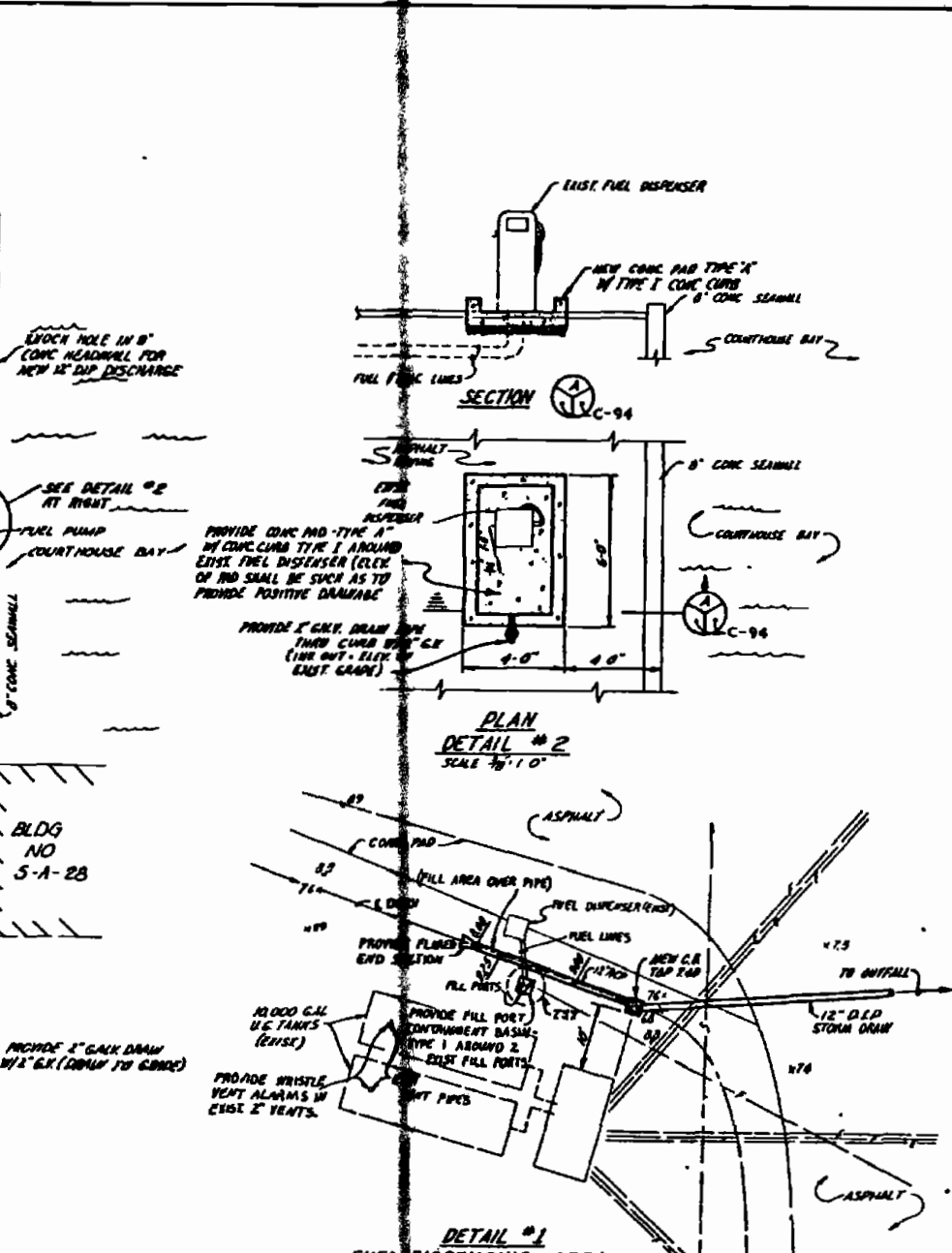
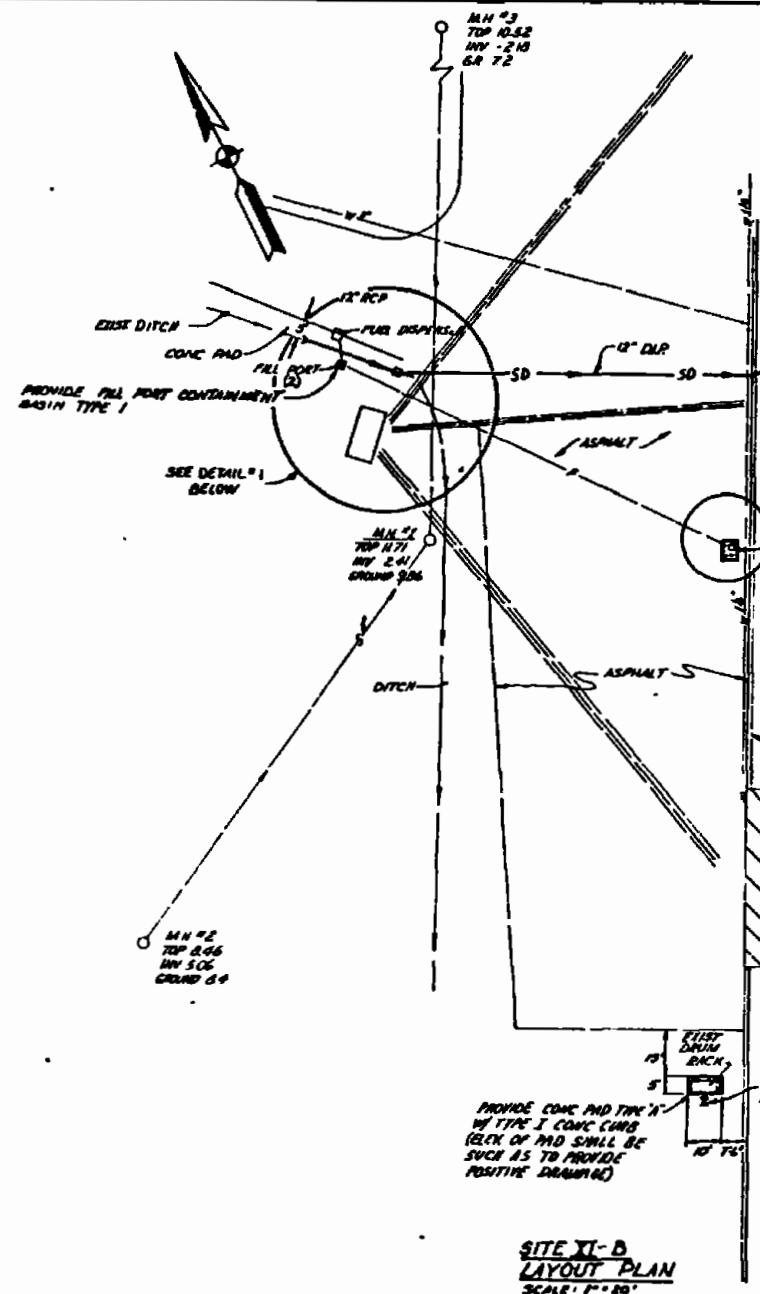
NOTE FOR BENCHMARK REFER TO SITE XI-C, SHEET C-95.



RECORDED DRAWING DATE FEB 1 1988	C-93
AUSTIN BROCKENBROUGH AND ASSOCIATES CIVIL ENGINEERS 1000 W. 10TH ST. DALLAS, TEXAS 75201	ATLANTIC DIVISION NATIONAL FIREARMS TRAINING CENTER CAMP LEJEUNE, NORTH CAROLINA
DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 4/18/88	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & PROFILES - SITE XI-A CIVIL
PROJECT NO. 80091	DRAWING NO. 4352502
SCALE: AS SHOWN	SHEET 73 OF 74



SYN	DESCRIPTION	DATE	APPROVED
(1)	REVISED 15 MAY 72	5/2/72	

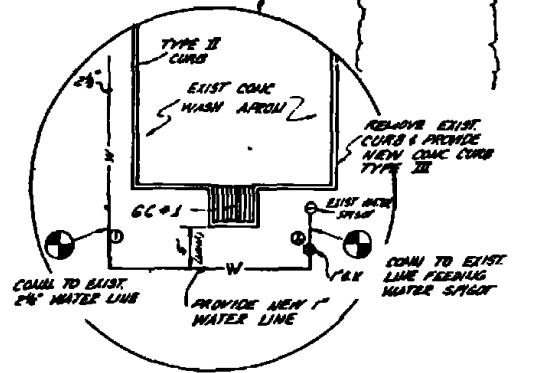
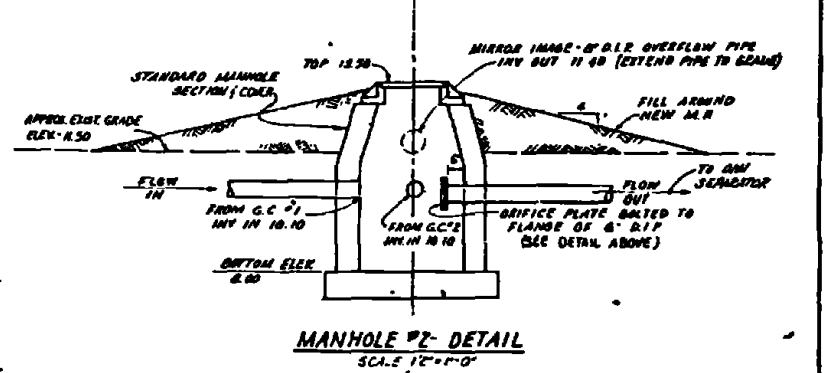
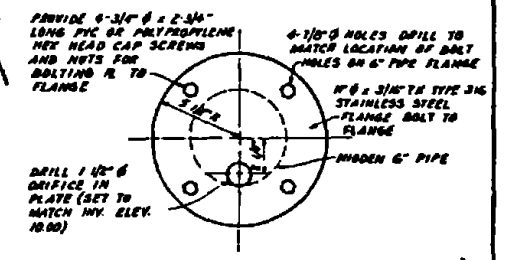
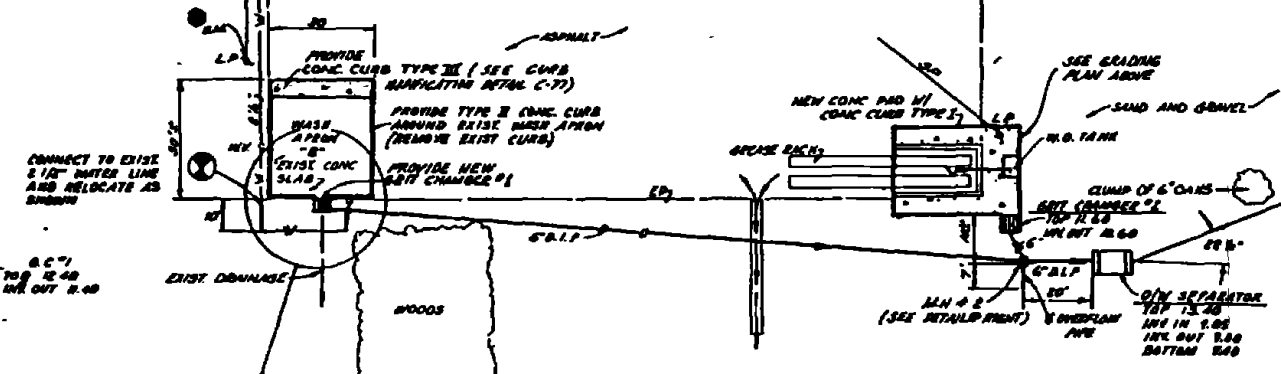
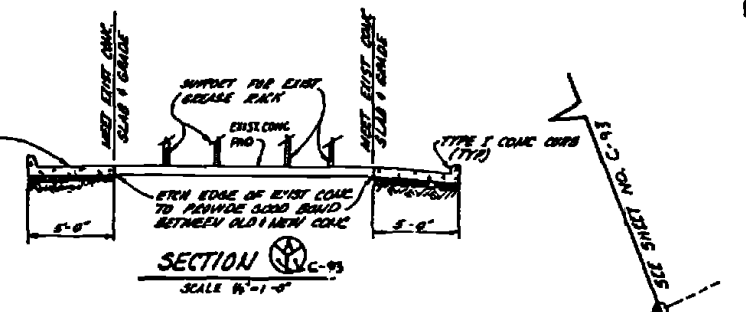
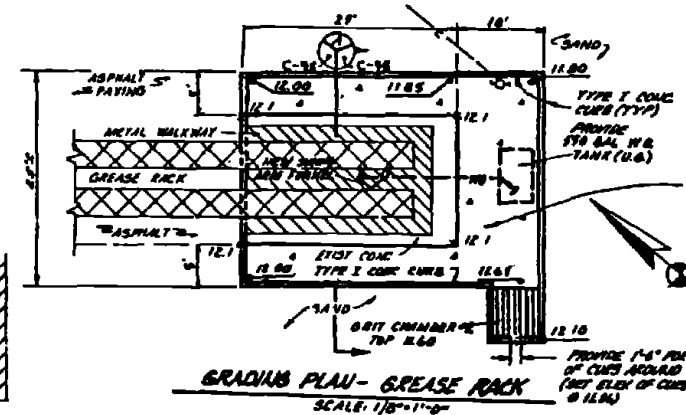


RECORD DRAWING DATE: FEB 11 1972		C-94	
AUSTIN BROCKENBROUGH AND ASSOCIATES Civil Engineers 1111 West 19th Street Fort Worth, Texas 76102		ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA	
PROJECT NO. 4052563 SHEET NO. 1 OF 1		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SHT. PLANS & DETAILS - SITES XI-B & XI-D	
DRAWN BY: [Signature] CHECKED BY: [Signature]		DATE: 12/1/71	
APPROVED BY: [Signature]		SCALE: AS SHOWN	



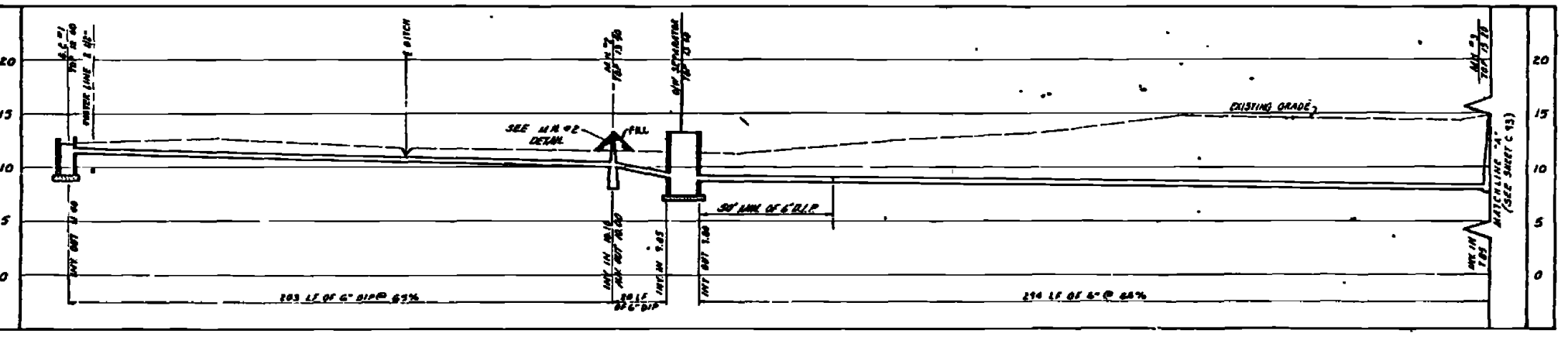
NO.	DESCRIPTION	DATE	APPROVED
1	REVISION AS BUILT	2/1/83	

● B.M. BENCHMARK
 RE SURVEY IN POWER POLE
 ELEV 14.17

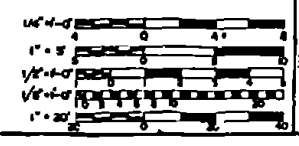


SITE II-C LAYOUT PLAN
 SCALE 1" = 20'

NOTE REMOVE EXIST 2 1/2" WATER LINE BETWEEN POINTS ① & ②



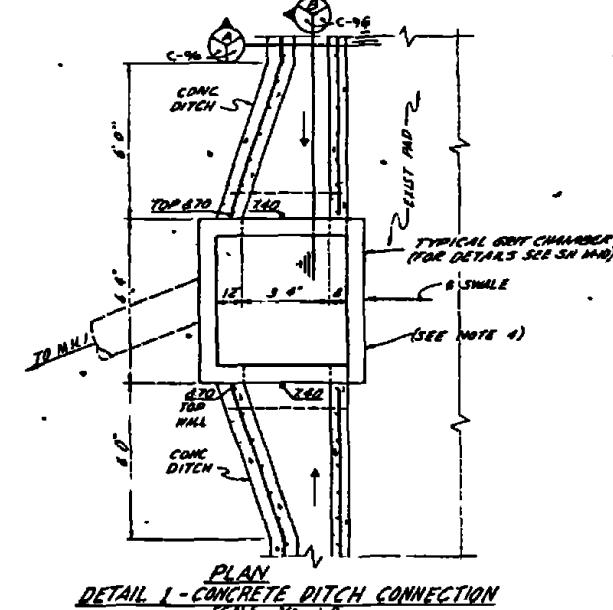
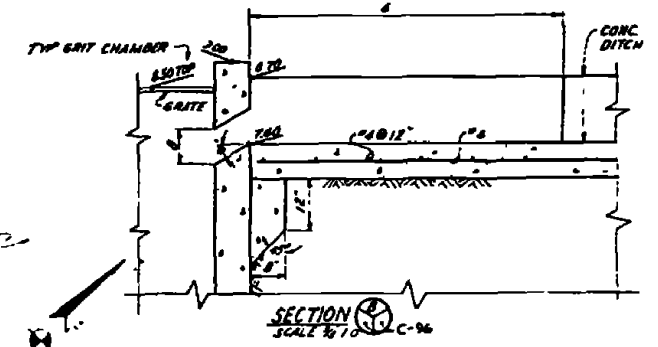
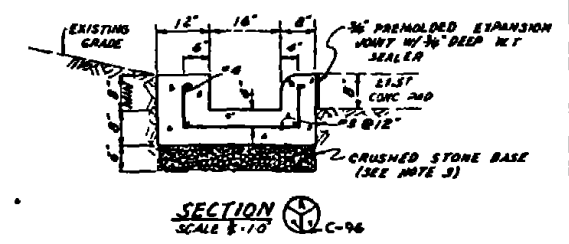
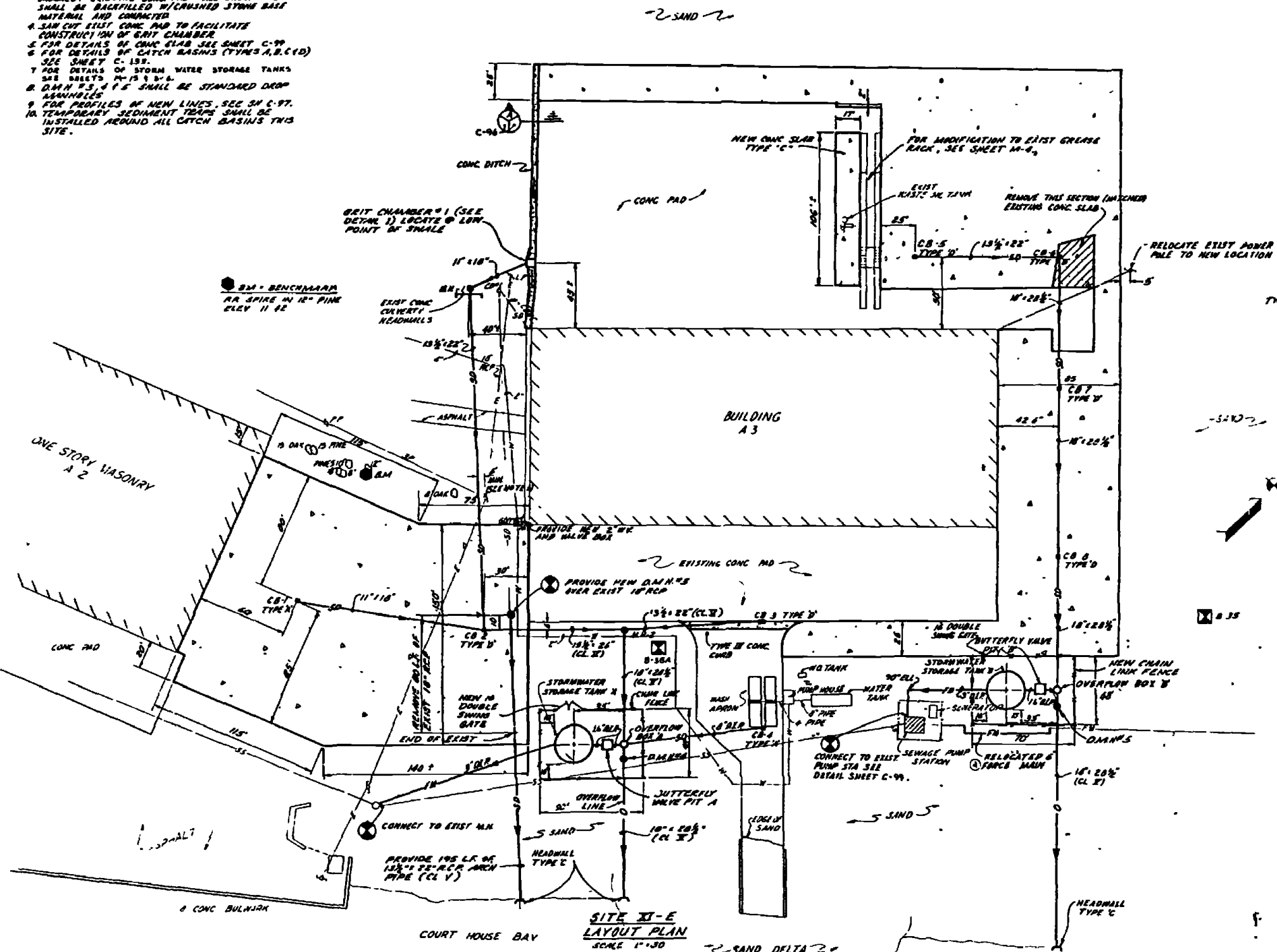
PROFILE - WASH APRON 'B' DISCHARGE
 G.C. #1 TO M.H. #3
 SCALE HORIZONTAL 1" = 10', VERTICAL 1" = 5'



RECORD DRAWING DATE FEB 1 1983		C-95	
AUSTIN BROCKENBROUGH AND ASSOCIATES CORPORATION 1770 S.W. 11th St. Fort Lauderdale, FL 33304		DEPARTMENT OF THE NAVY MARINE FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE STATION CAMP LEVINE, NORTH CAROLINA	
DESIGNER: S.W.A. OR SHOR DATE: 12/1/82		DRAWING GROUP: BASE PROJECT NO.: 1770/129	
CHECKED BY: [Signature] DATE: 1/19/83		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITES II-C	
APPROVED BY: [Signature] DATE: 1/19/83		DRAWING NO.: 4052564	
SCALE: AS SHOWN		COVER SHEET NO. M62410 18-B-8218	
DATE OF ISSUE: 2/1/83		SHEET NO. 95 OF 111	

SYMBOL	DESCRIPTION	DATE	APPROVED
(C)	REVISED AS SHOWN	12/4/77	

- NOTES**
- CONTRACTOR SHALL SUPPORT ALL EXIST POWER POLES DURING CONSTRUCTION
 - UNLESS OTHERWISE NOTED ALL DRAIN PIPE ON THIS SITE SHALL BE REINFORCED CONCRETE ARCH PIPE CLASS III
 - CONTRACTOR SHALL EXERCISE CARE NOT TO UNDERCUT EXISTING CONC PAD ALL UNDERCUTS SHALL BE BACKFILLED W/CRUSHED STONE BASE MATERIAL AND COMPACTED
 - SAN CUT EXIST CONC PAD TO FACILITATE CONSTRUCTION OF GRIT CHAMBER
 - FOR DETAILS OF CONC SLAB SEE SHEET C-99
 - FOR DETAILS OF CATCH BASINS (TYPES A,B,C,D) SEE SHEET C-155
 - FOR DETAILS OF STORM WATER STORAGE TANKS SEE SHEETS M-15 & B-6
 - D.M.N.'S & P'S SHALL BE STANDARD DROP MANHOLES
 - FOR PROFILES OF NEW LINES, SEE SH C-97
 - TEMPORARY SEDIMENT TRAPS SHALL BE INSTALLED AROUND ALL CATCH BASINS THIS SITE.

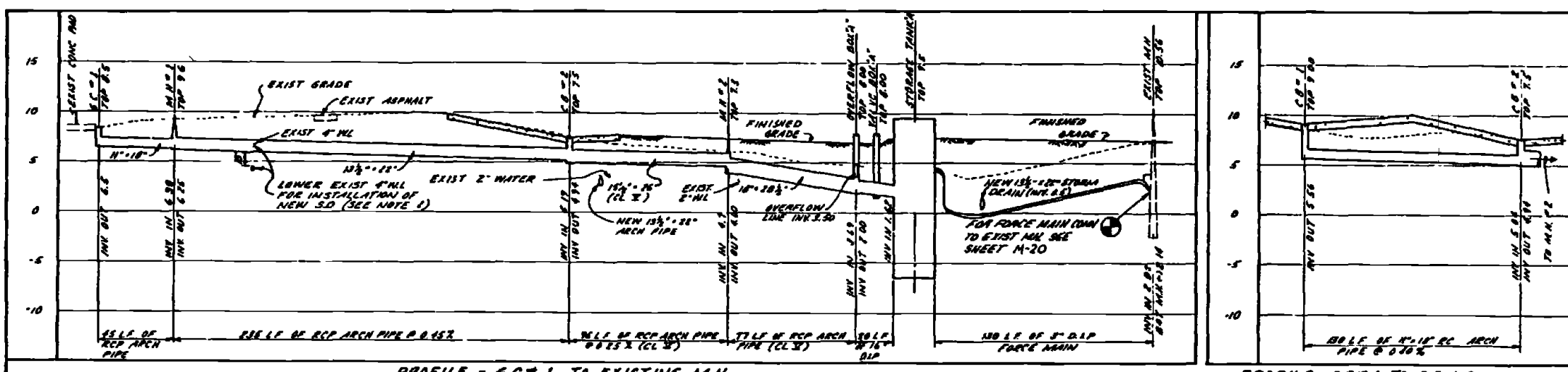


DATE: FEB 1978 PROJECT: C-96	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS PROJECT: DEB DRAWN BY: GMA CHECKED BY: [Signature] DATE: 11/11/77	DEPARTMENT OF THE NAVY NAVAL FAC. ENGINEERING DIVISION ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & DETAILS - SITE XI-E CIVIL
SCALE: 1" = 30' 	SHEET NO: F 80091 TOTAL SHEETS: 18 OF 18



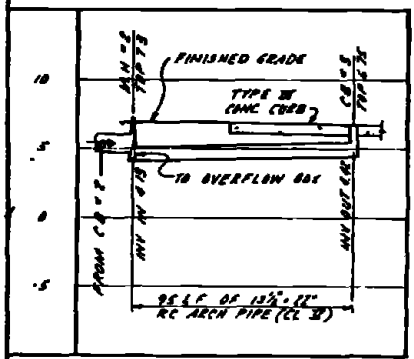
NO.	DESCRIPTION	DATE	APPROVED

NOTES
 1. VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY LINES PRIOR TO CONSTRUCTION.
 2. FOR PLANS OF NEW LINES SEE SH C 96.

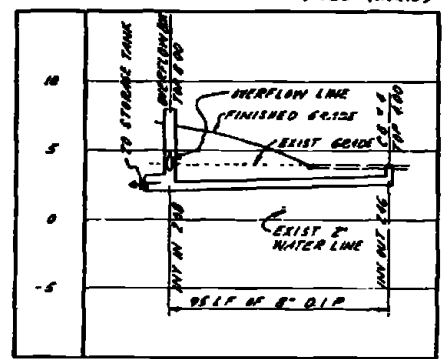


PROFILE - 6C#1 TO EXISTING M.H.
 SCALE: 1" = 5' (VERT)
 1" = 30' (HORIZ)

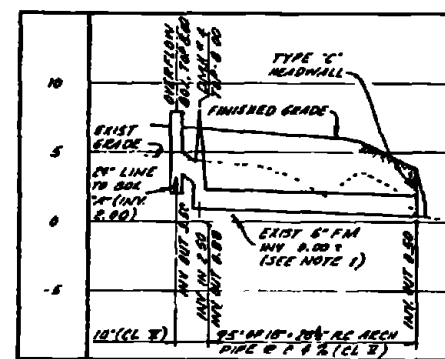
PROFILE - CB#1 TO CB#2
 SCALE: 1" = 5' (VERT)
 1" = 30' (HORIZ)



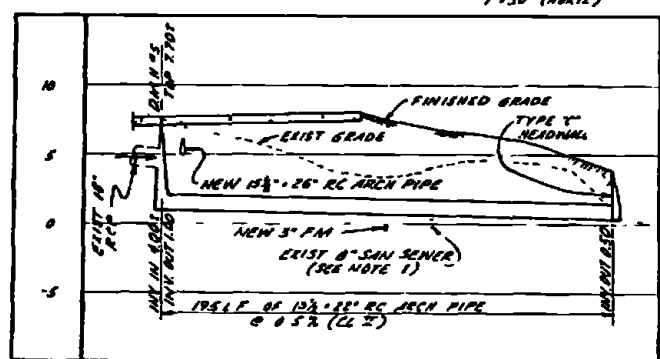
PROFILE - MH#2 TO CB#3
 SCALE: 1" = 5' (VERT)
 1" = 30' (HORIZ)



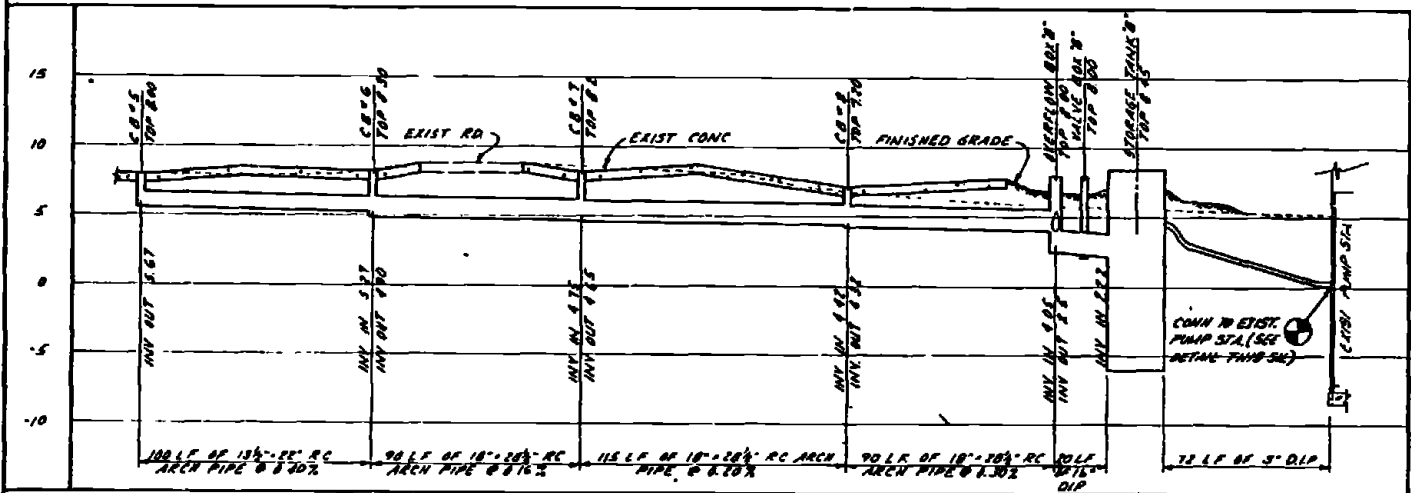
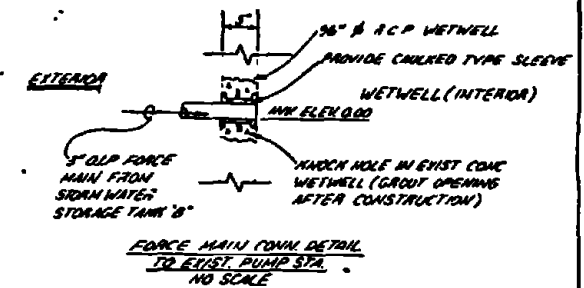
PROFILE - OVERFLOW BOX 'A' TO CB#4
 SCALE: 1" = 5' (VERT)
 1" = 30' (HORIZ)



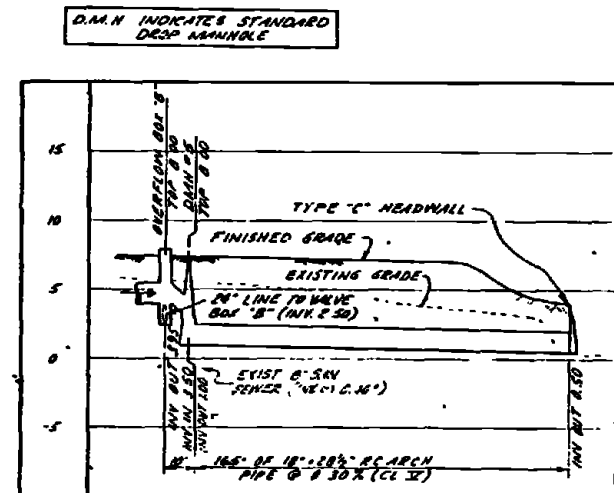
PROFILE - OVERFLOW BOX 'A' TO OUTFALL
 SCALE: 1" = 5' (VERT)
 1" = 30' (HORIZ)



PROFILE - MH#3 TO OUTFALL
 SCALE: 1" = 5' (VERT)
 1" = 30' (HORIZ)



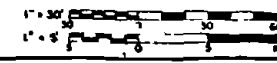
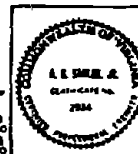
PROFILE - CB#5 TO LIFT STATION
 SCALE: 1" = 5' (VERT)
 1" = 30' (HORIZ)



PROFILE - OVERFLOW BOX 'B' TO OUTFALL
 SCALE: 1" = 5' (VERT)
 1" = 30' (HORIZ)

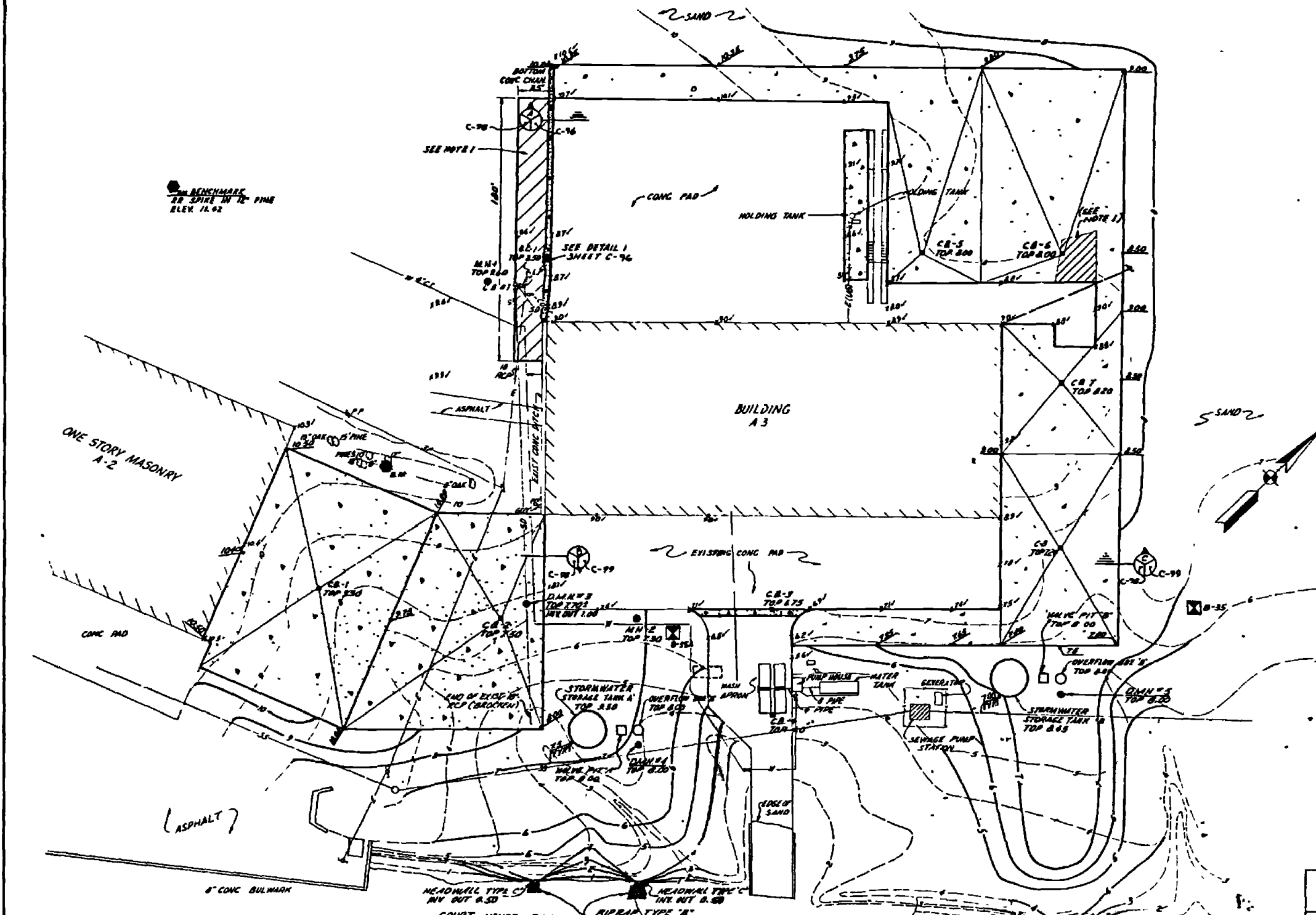
SITE XI-E (PROFILES)

RECORD DRAWING DATE: FEB 11, 1968		C-97	
AUSTIN BROCKBROUGH AND ASSOCIATES		DEPARTMENT OF THE NAVY ATLANTIC DIVISION	
MARINE CORPS BASE		CAMP LEJEUNE NORTH CAROLINA	
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES		PROFILES - SITE XI E	
CIVIL		DRAWING NO. 465266	
F 80091		CONSTR. CONTRACT NO. 162670 16 B 8668	



REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

- NOTES**
1. CROSS HATCHING INDICATES AREA OF OR CONTAMINATED SOIL. CONTRACTOR SHALL REMOVE TOP 12 INCHES AND REPLACE WITH CLEAN TOPSOIL TO GRADE. CONTAMINATED SOIL SHALL BE REMOVED FROM SITE AND PLACED IN THE SANITARY LANDFILL.
 2. RIPRAP SHALL BE INSTALLED AT THE OUTFALL OF THE THREE LINES DISCHARGING INTO COUNTHOUSE BAY AS DETAILED ON SHEET C-132. THE RIPRAP SHALL BE BROUGHT PROVIDE SEDIMENT TRAPS AROUND CATCH BASINS CB 1, 2, 3, 7 & 8.
 3. EXCEPT AS NOTED, THIS SITE SHALL NOT BE SEDED UPON COMPLETION OF GRADING.



BENCHMARK
BR SPIRE IN 12" PINE
ELEV. 11.62

**SITE XI-E
GRADING PLAN
SCALE 1"=30'**

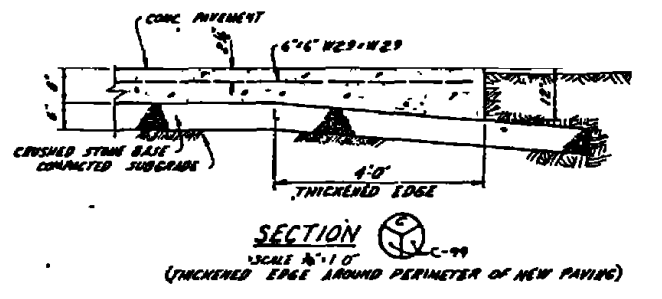
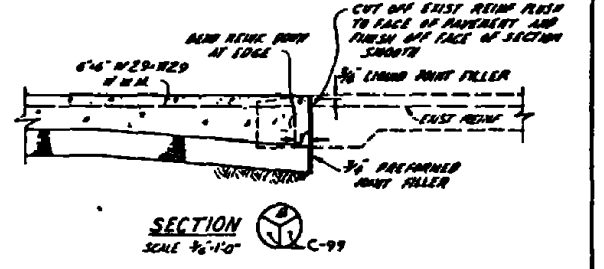
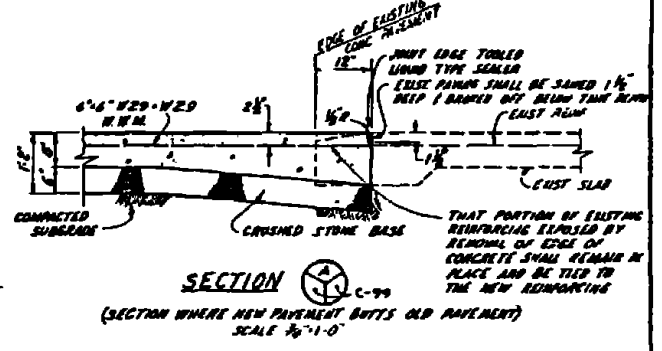
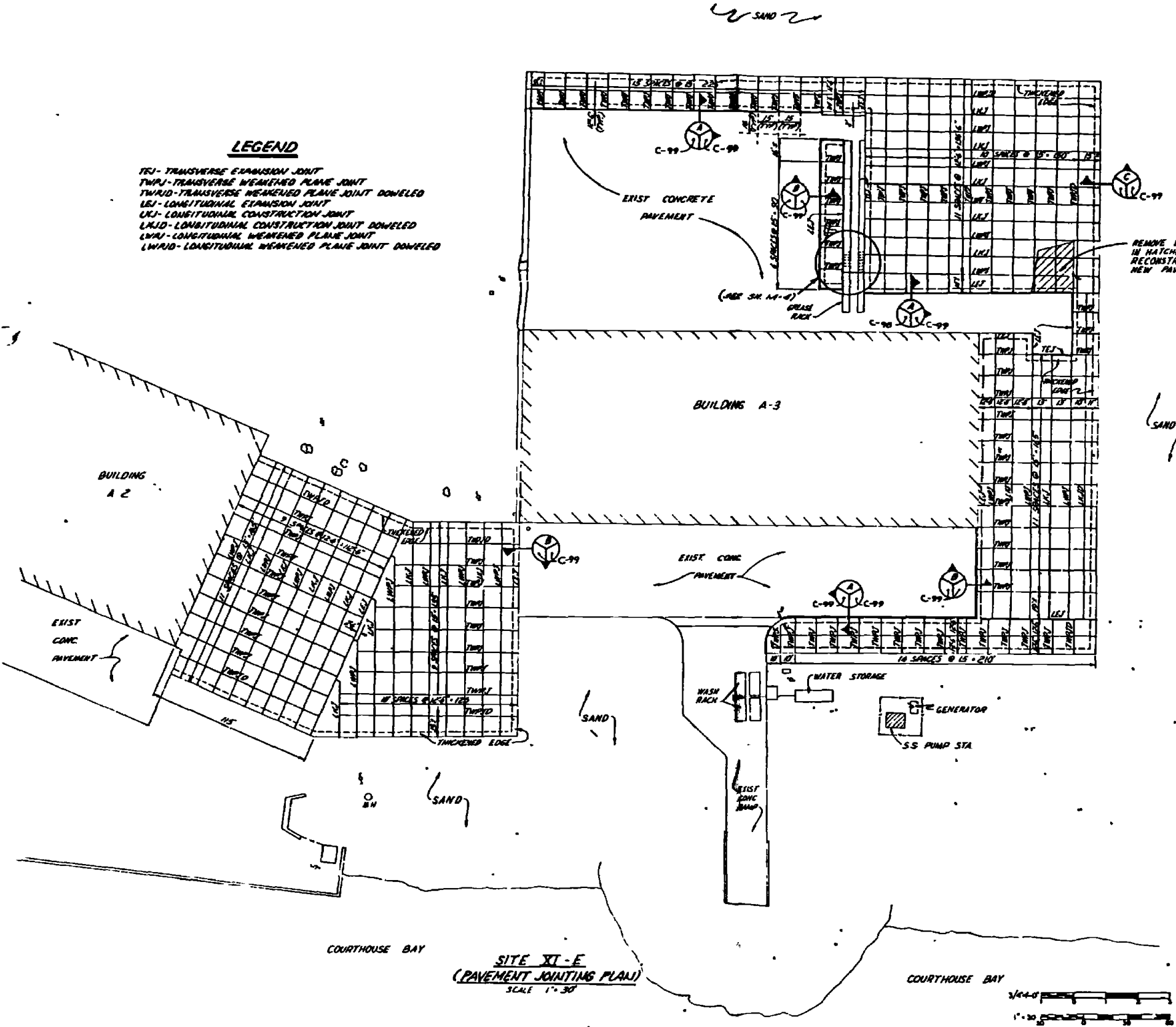


RECORD DRAWING DATE FEB 11 1981	C-98
AUSTIN BROCKLEBROUGH AND ASSOCIATES INCORPORATED 1111 1/2 S. 11th St. DALLAS, TEXAS 75215	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE COMPT BASE CAMP LEJEUNE, NORTH CAROLINA 28520
DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 1/11/81	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES GRADING PLAN-SITE XI-E CIVIL
PROJECT NO. F 80091	4657567
SCALE AS NOTED	NOV 03 16 8268

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

LEGEND

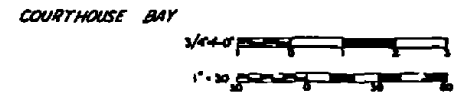
- TEJ- TRANSVERSE EXPANSION JOINT
- TWPJ- TRANSVERSE WEAKENED PLANE JOINT
- TWRJ- TRANSVERSE WEAKENED PLANE JOINT DOWELED
- LEJ- LONGITUDINAL EXPANSION JOINT
- LXJ- LONGITUDINAL CONSTRUCTION JOINT
- LWJ- LONGITUDINAL CONSTRUCTION JOINT DOWELED
- LWRJ- LONGITUDINAL WEAKENED PLANE JOINT
- LWRJD- LONGITUDINAL WEAKENED PLANE JOINT DOWELED



TYPICAL CONC SLAB DETAILS

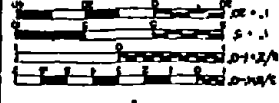
NOTE ALL CONC SLAB CONSTRUCTION @ SITE XI-E SHALL BE TYPE 'C' EXCEPT FOR REINFORCING OR AS DETAILED OTHERWISE

COURTHOUSE BAY
SITE XI-E
(PAVEMENT JOINTING PLAN)
SCALE 1"=30'

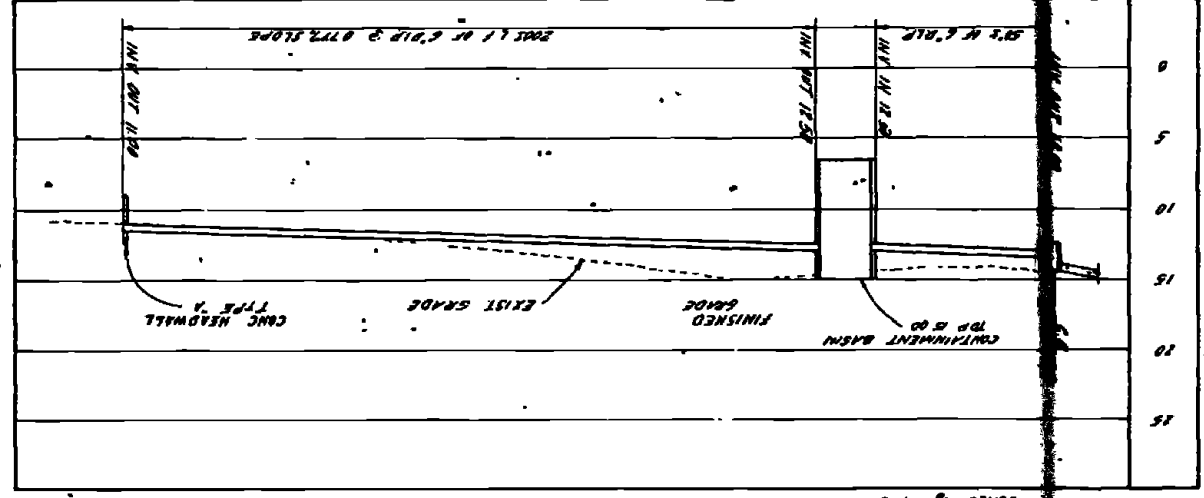


RECORD DRAWING DATE FEB 11 '91	C-99
AUSTIN BROCKENBROUGH AND ASSOCIATES Professional Engineers	DEPARTMENT OF THE NAVY MARINE FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION
DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 12/13/90	MARINE STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
PROJECT: PAVEMENT JOINTING PLAN AND DETAILS SITE XI-E	PROJECT NO. 4052568
APPROVED BY: [Signature]	CONTRACT NO. N62470 78 B 8168
DATE: 12/13/90	ISSUE NO. 1
SCALE: 1"=30'	DATE: 99 OF 140

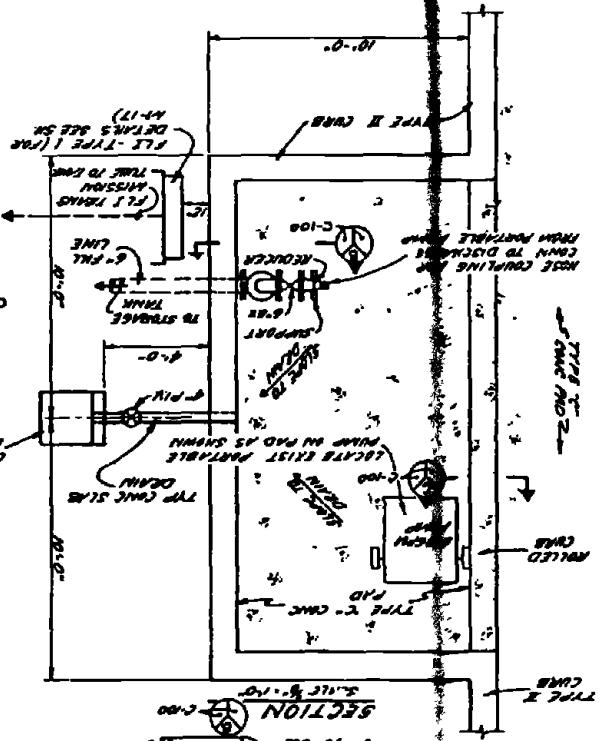
PROJECT NO. 405250	DATE 11/10/78
PROJECT NAME INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	SCALE 1" = 20' (HORIZ)
CLIENT TEXAS INSTRUMENTS	SCALE 1" = 5' (VERT)
PROJECT LOCATION 11000 W. 10th St., Dallas, TX	DATE FEB 11 1981
DESIGNER J. J. BRYAN	PROJECT NO. 405250
CHECKER J. J. BRYAN	SCALE 1" = 20' (HORIZ)
DATE 11/10/78	SCALE 1" = 5' (VERT)



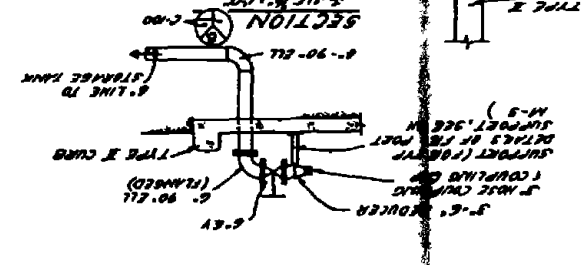
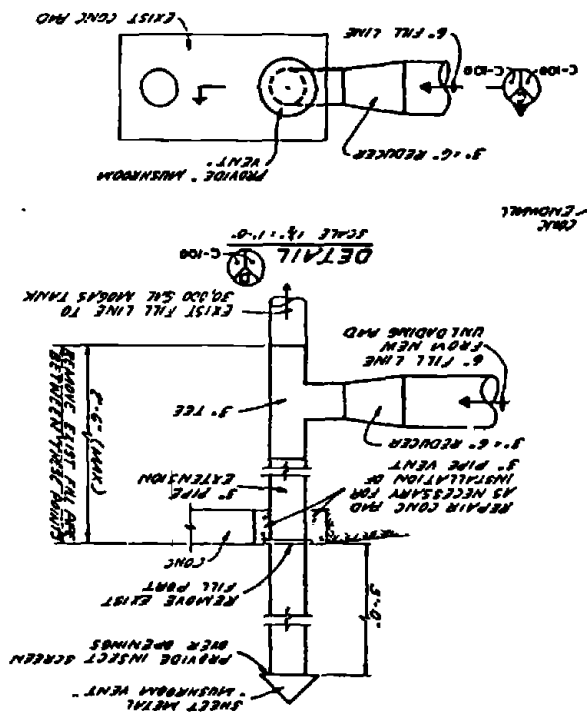
PROFILE - DRAIN LINE
SCALE 1" = 5' (VERT)
SCALE 1" = 20' (HORIZ)



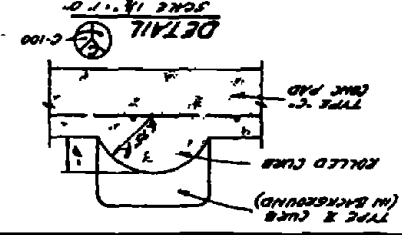
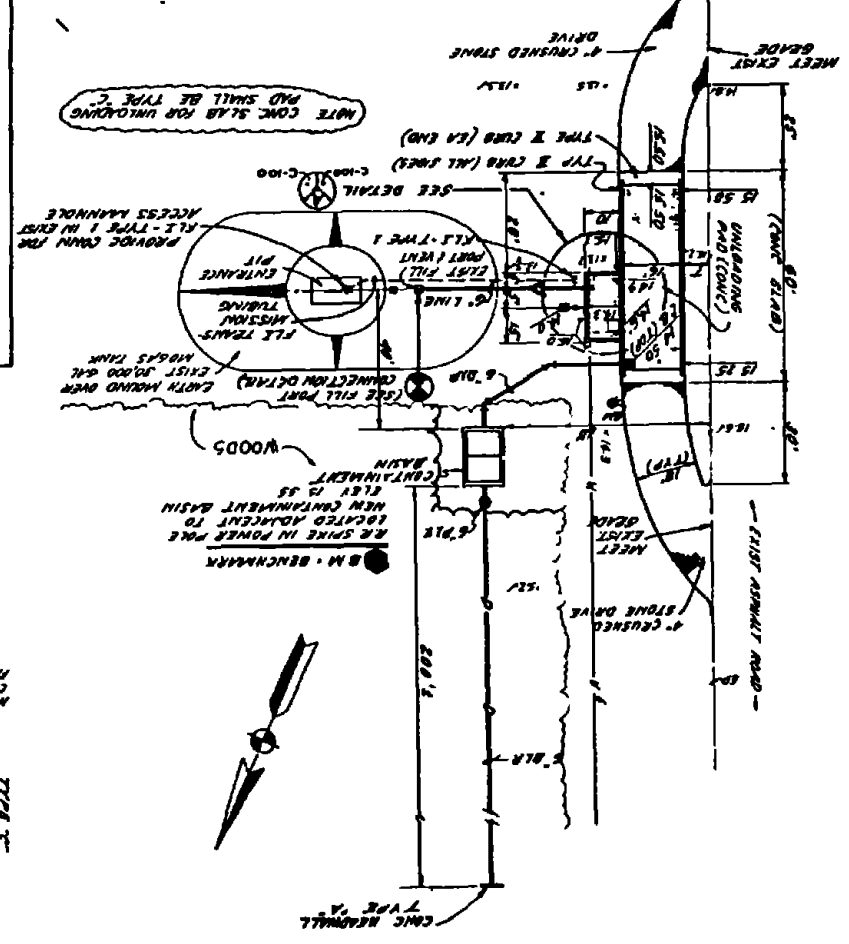
DETAIL - UNLOADING PAD
SCALE 1/2" = 1'-0"



PLAN - TANK FILL PORT CONNECTION DETAIL
SCALE 1/2" = 1'-0"



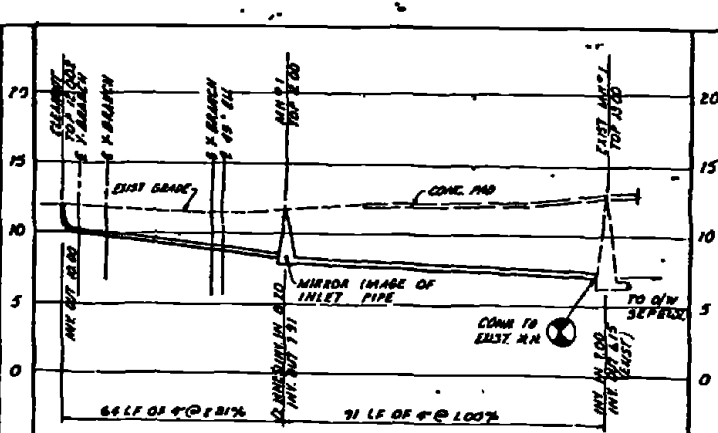
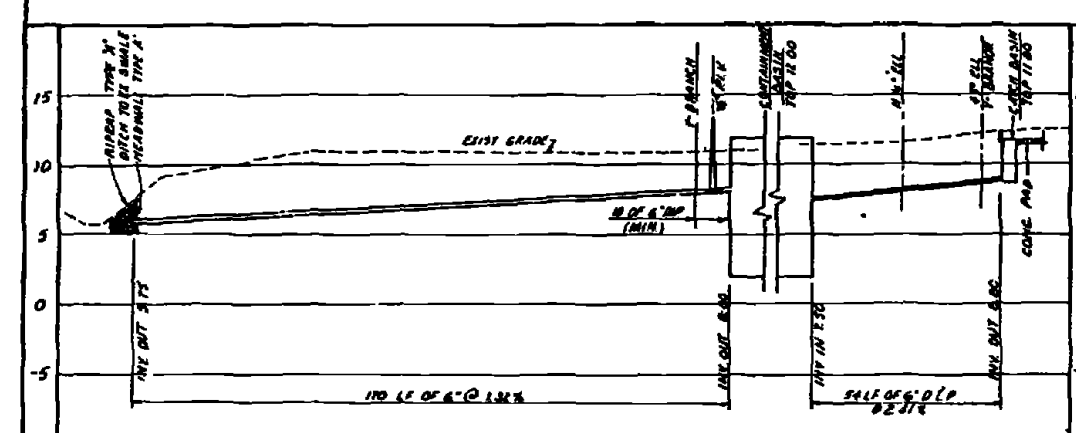
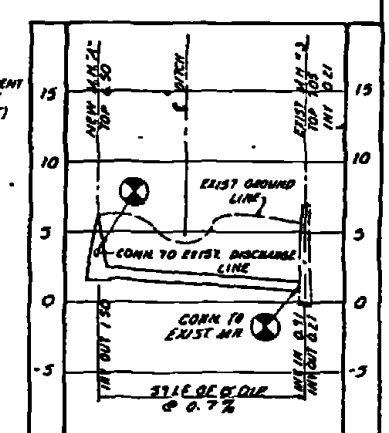
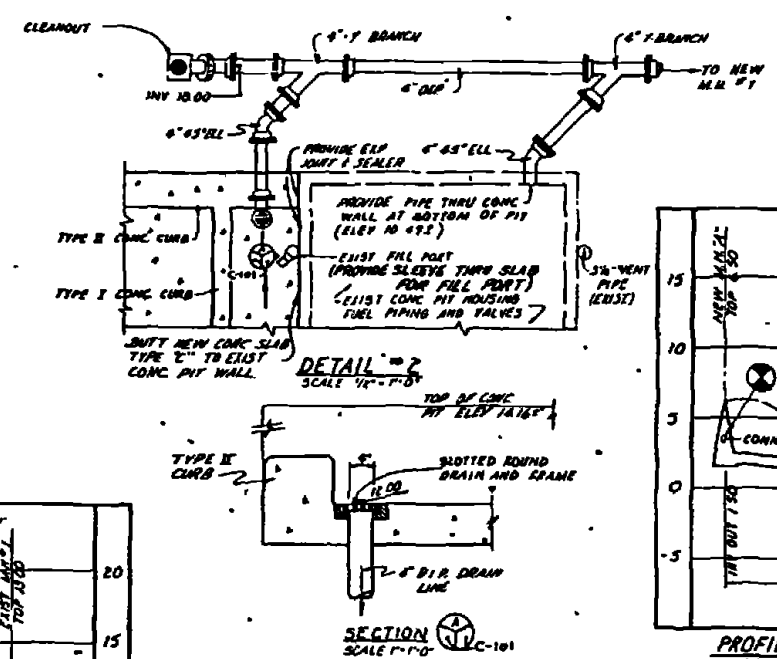
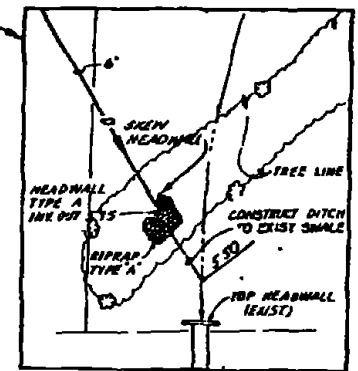
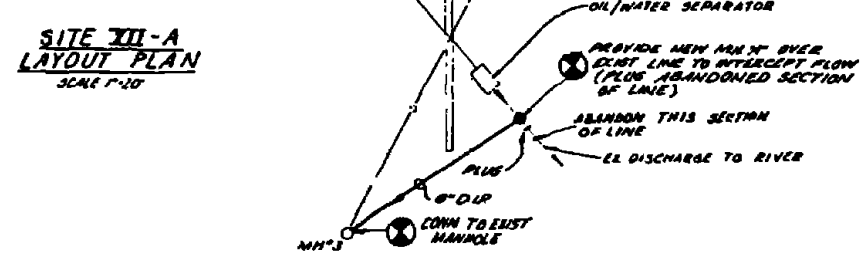
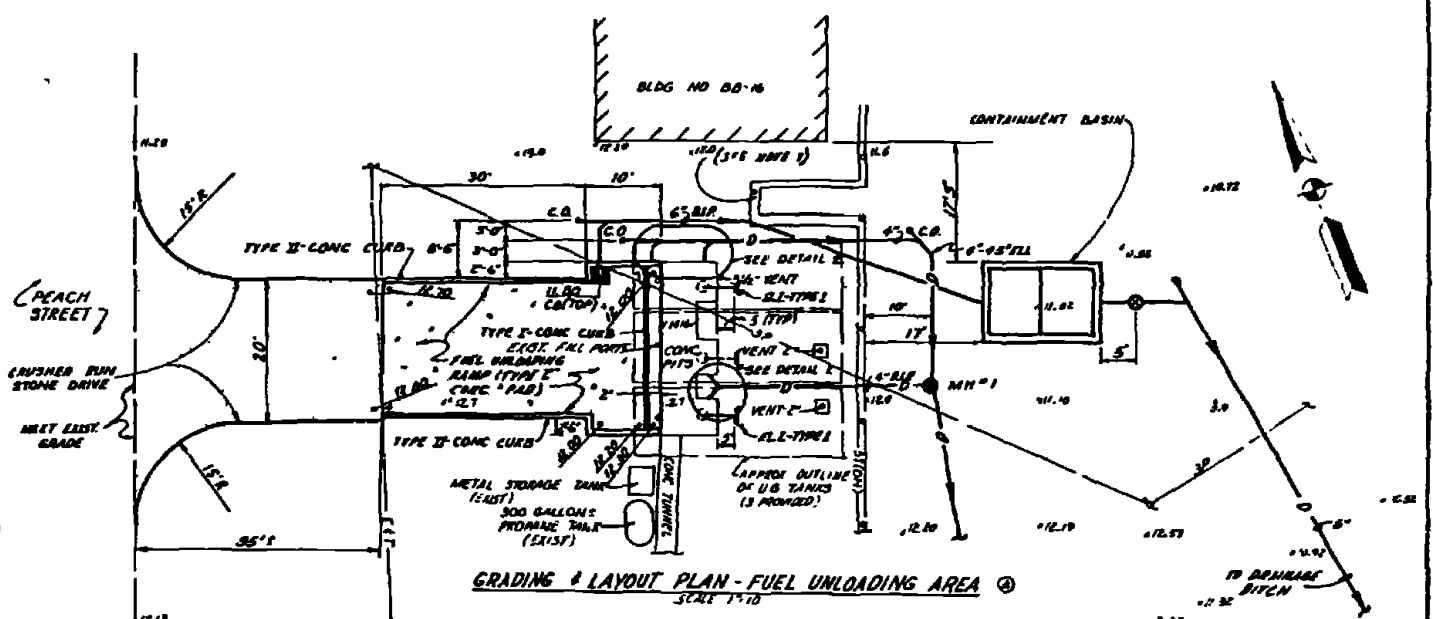
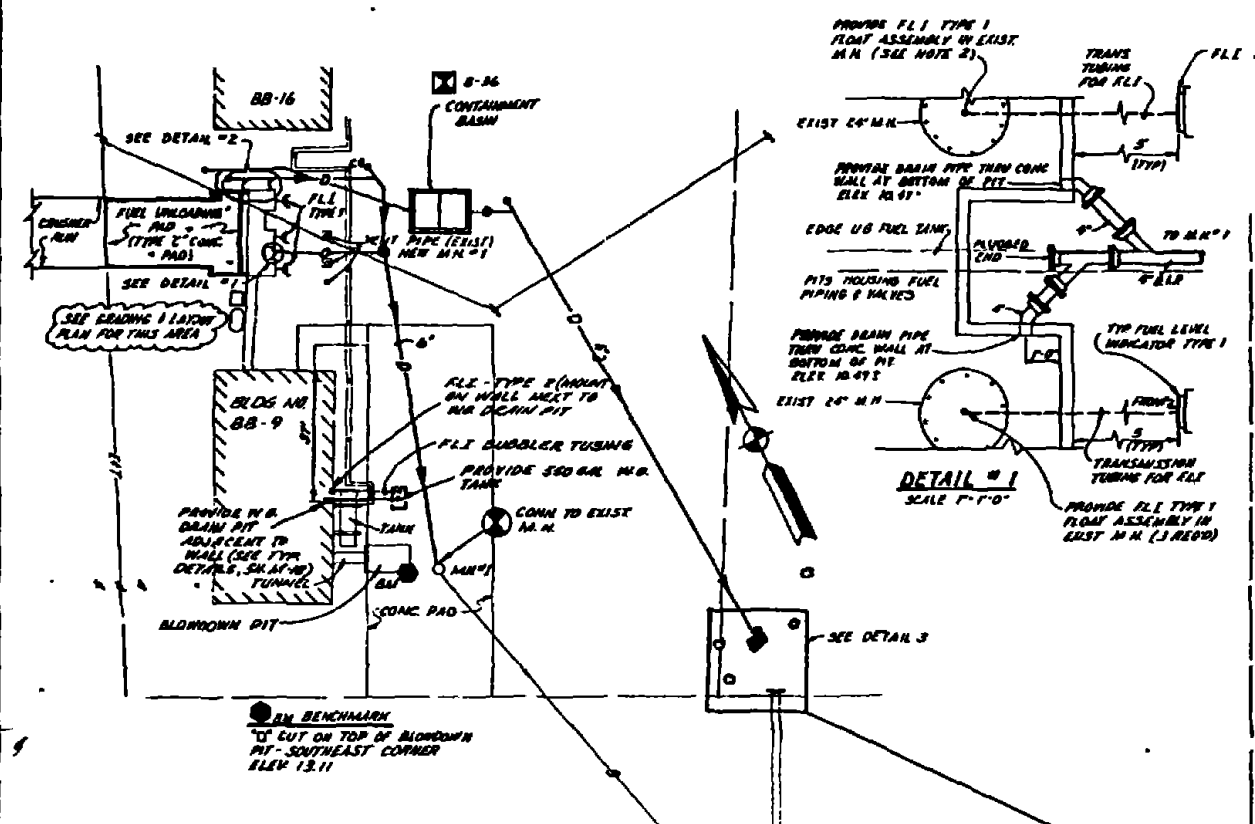
LAYOUT & GRADING PLAN
SCALE 1" = 20'



NOT USED
NOT TO SCALE
DRAINAGE DITCH DETAIL

DATE 11/10/78	DESIGNER J. J. BRYAN
DATE 11/10/78	CHECKER J. J. BRYAN
DATE 11/10/78	PROJECT NO. 405250

NO.	DESCRIPTION	DATE	APPROVED
1	REvised AS SHOWN	2/1/68	



RECORD DRAWING
DATE: FEB 11 1968

C-101

AUSTIN BROCKENBROUGH AND ASSOCIATES
INCORPORATED
1111 1/2 S. 11th St.
MEMPHIS, TENN. 38153

DEPARTMENT OF THE ARMY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
SITE PLAN, PROFILES & DETAILS - SITE XII-A

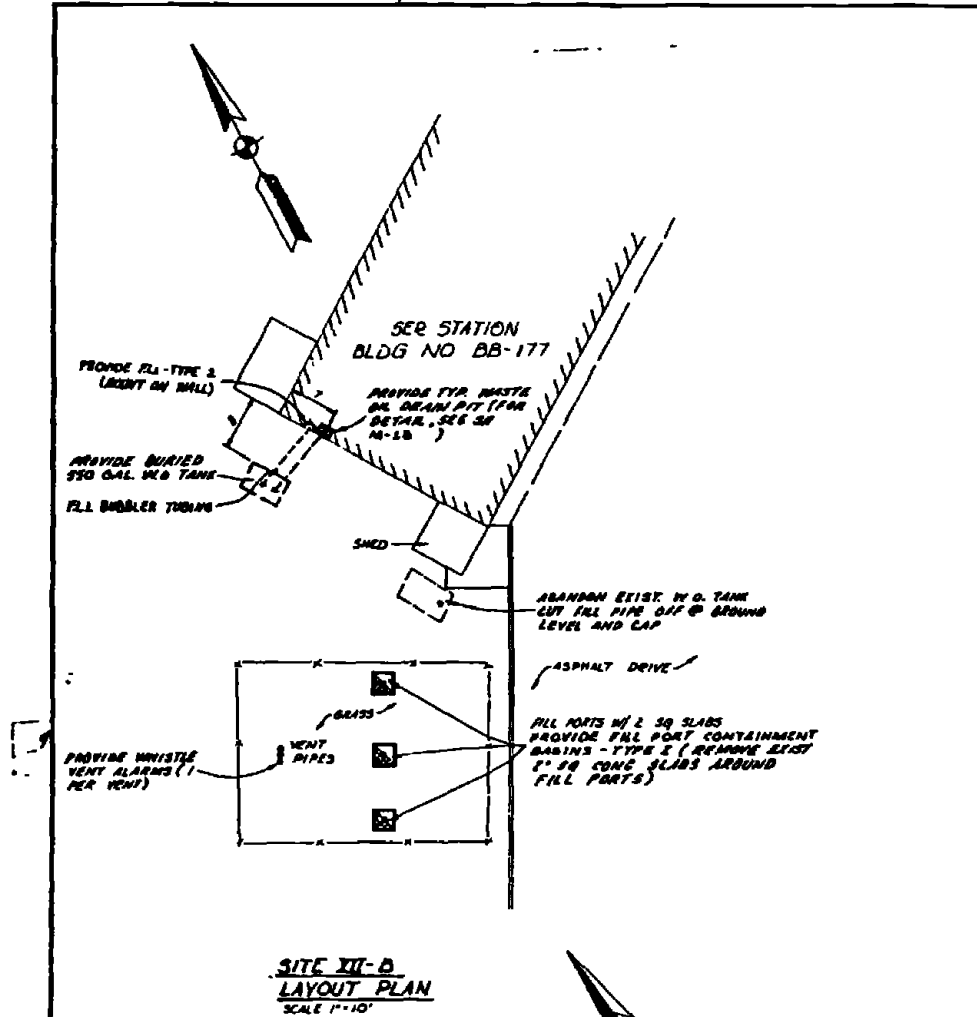
PROJECT NO. 4052570
DRAWING NO. 180091

DATE: 2/1/68

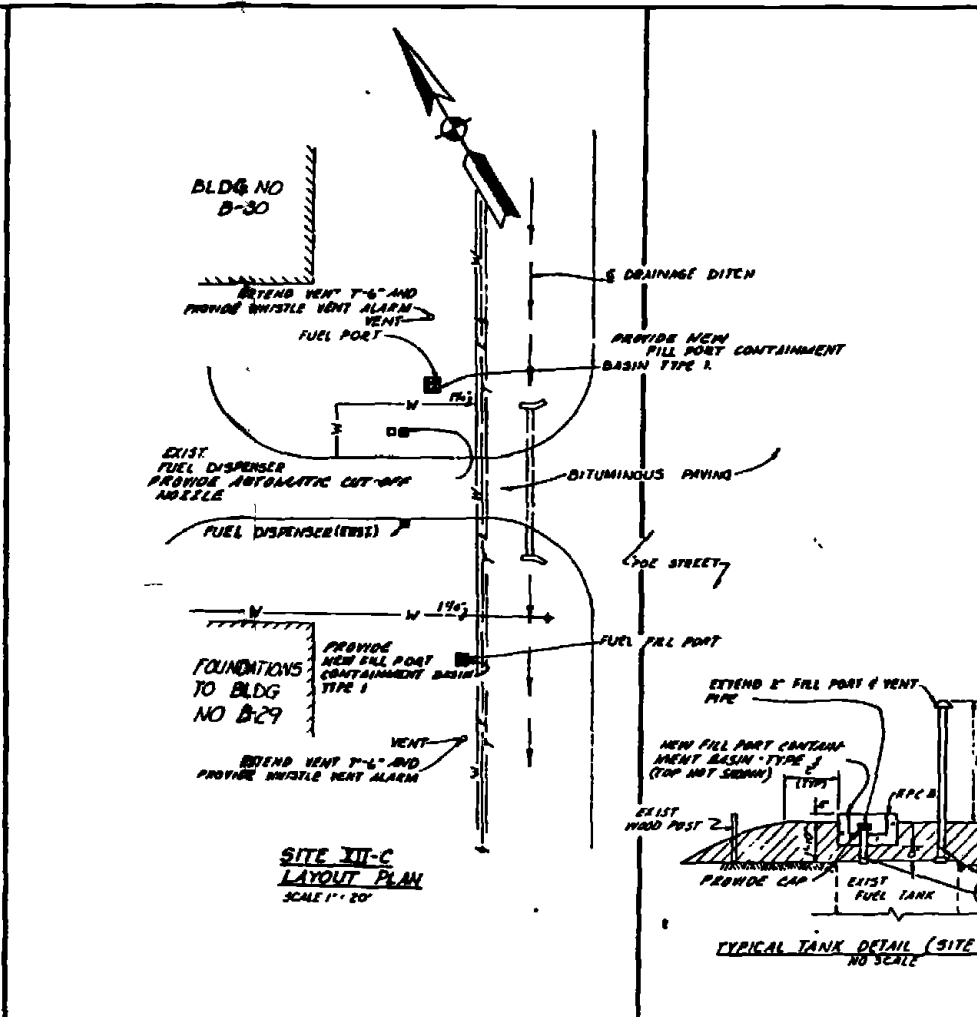
SCALE AS SHOWN



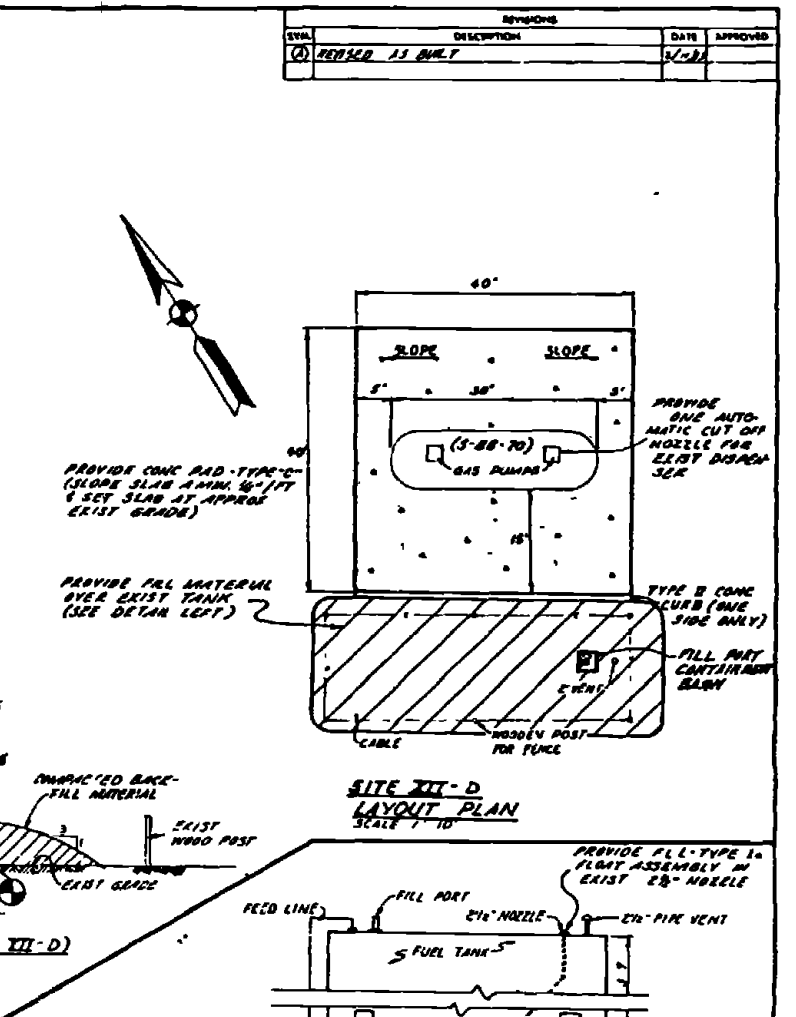
SYMBOL	DESCRIPTION	DATE	APPROVED
(2)	REVISED AS SHOWN	2/1/51	



**SITE XII-D
LAYOUT PLAN
SCALE 1"=10'**

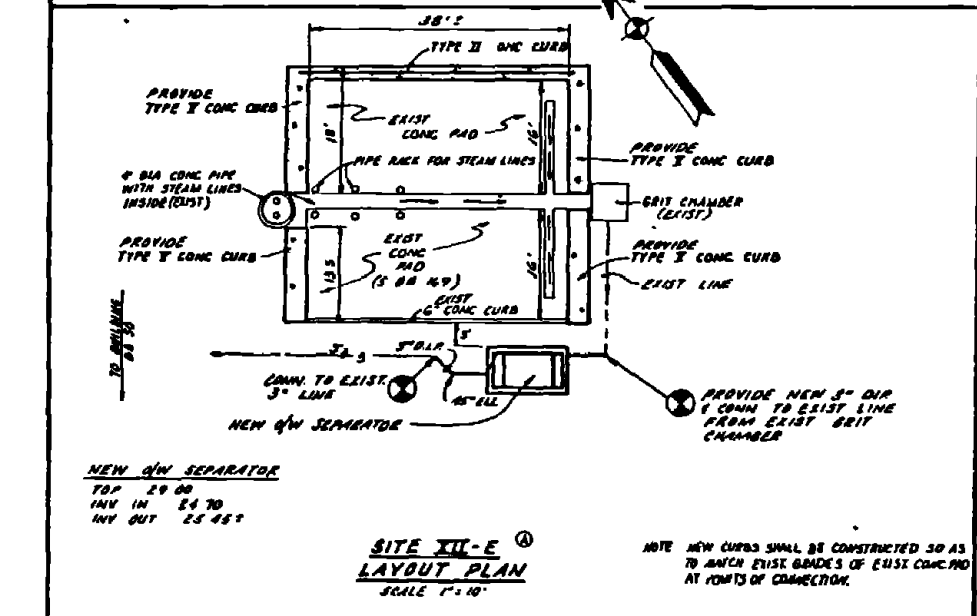


**SITE XII-C
LAYOUT PLAN
SCALE 1"=20'**



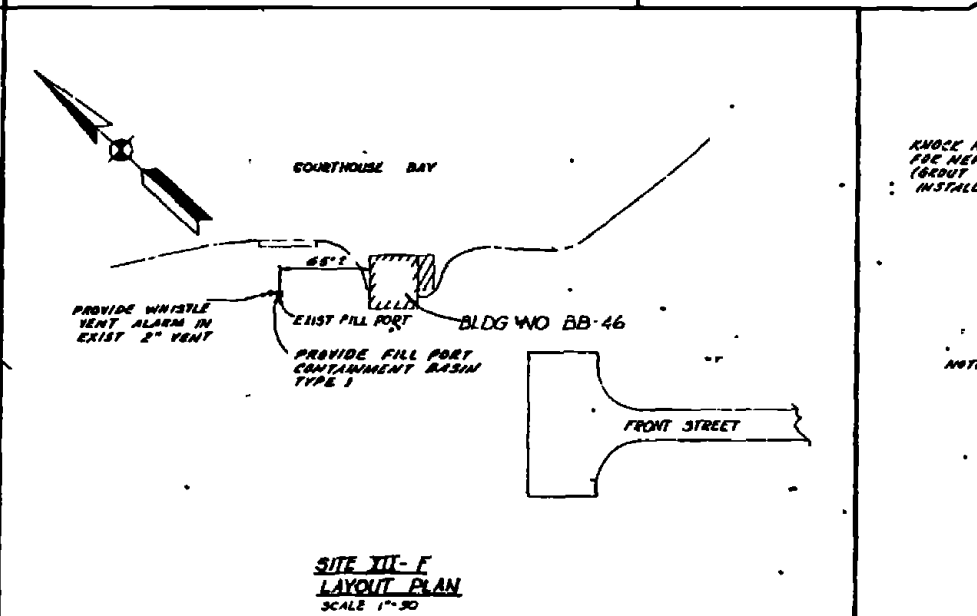
**SITE XII-D
LAYOUT PLAN
SCALE 1"=10'**

**EXIST TANK (SITE XII-G)
NO SCALE**

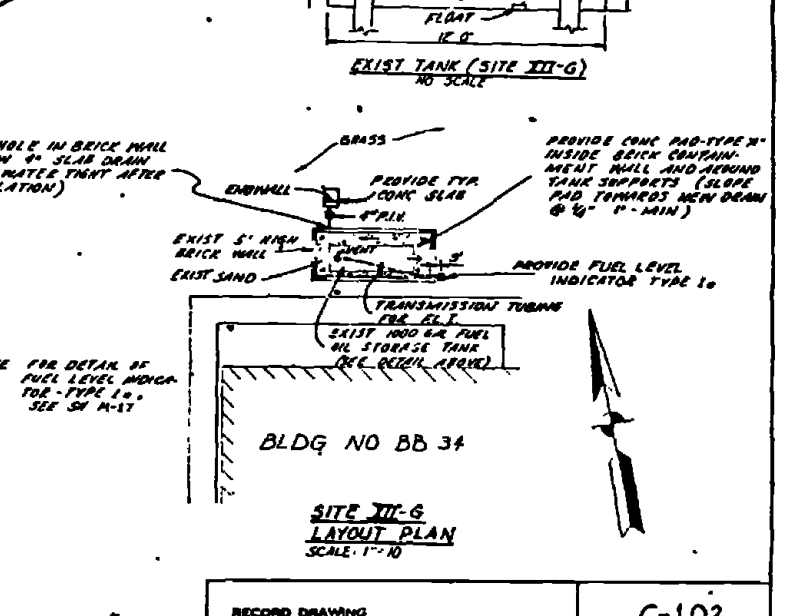


**SITE XII-E
LAYOUT PLAN
SCALE 1"=10'**

NOTE NEW CURBS SHALL BE CONSTRUCTED SO AS TO MATCH EXIST GRADES OF EXIST CONC. PD AT POINTS OF CONNECTION.

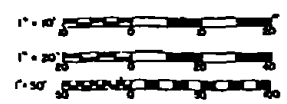


**SITE XII-F
LAYOUT PLAN
SCALE 1"=20'**



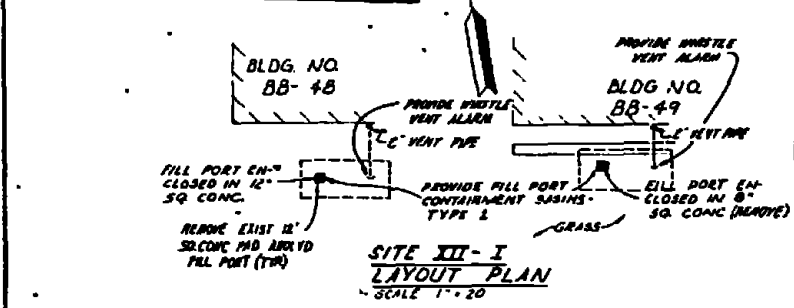
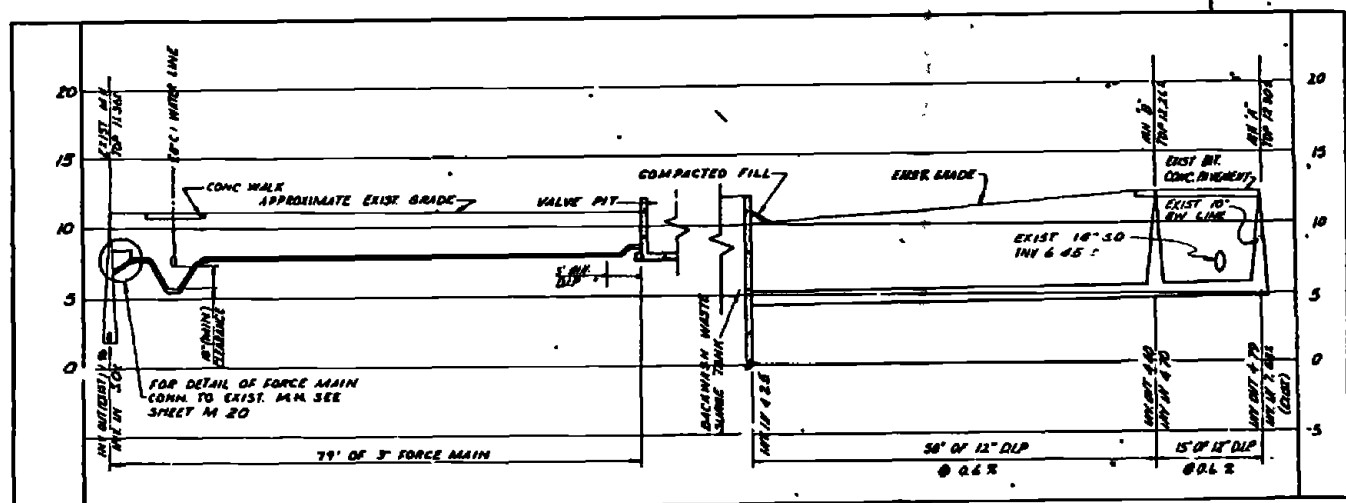
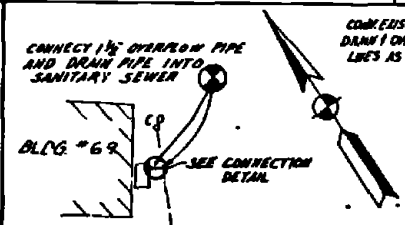
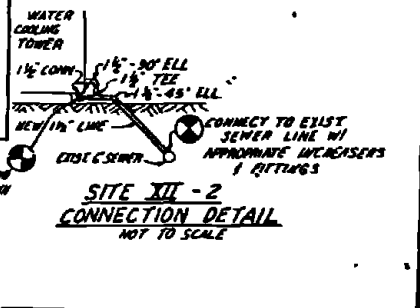
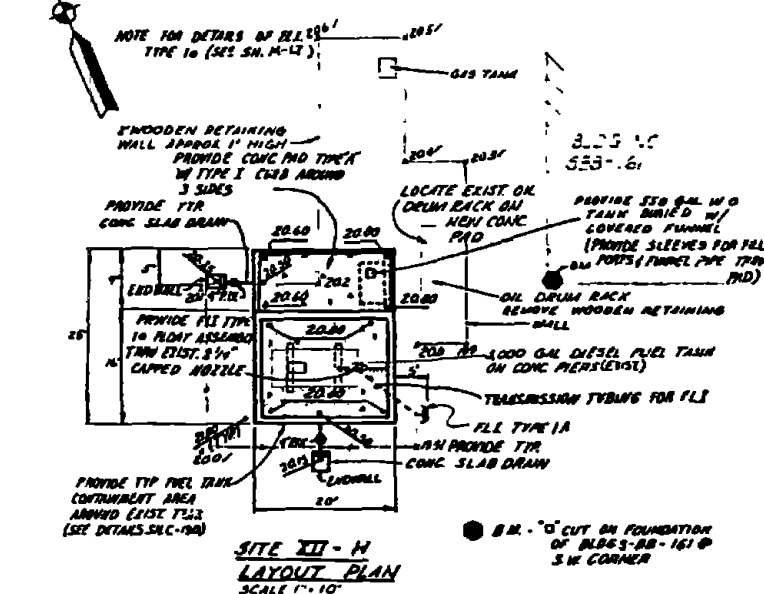
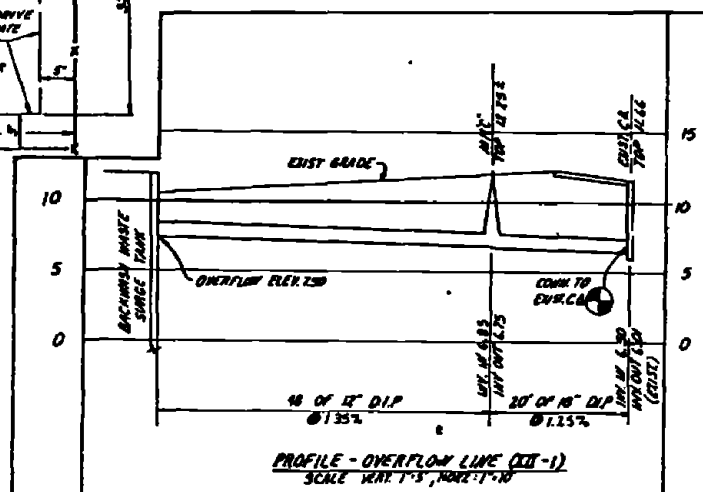
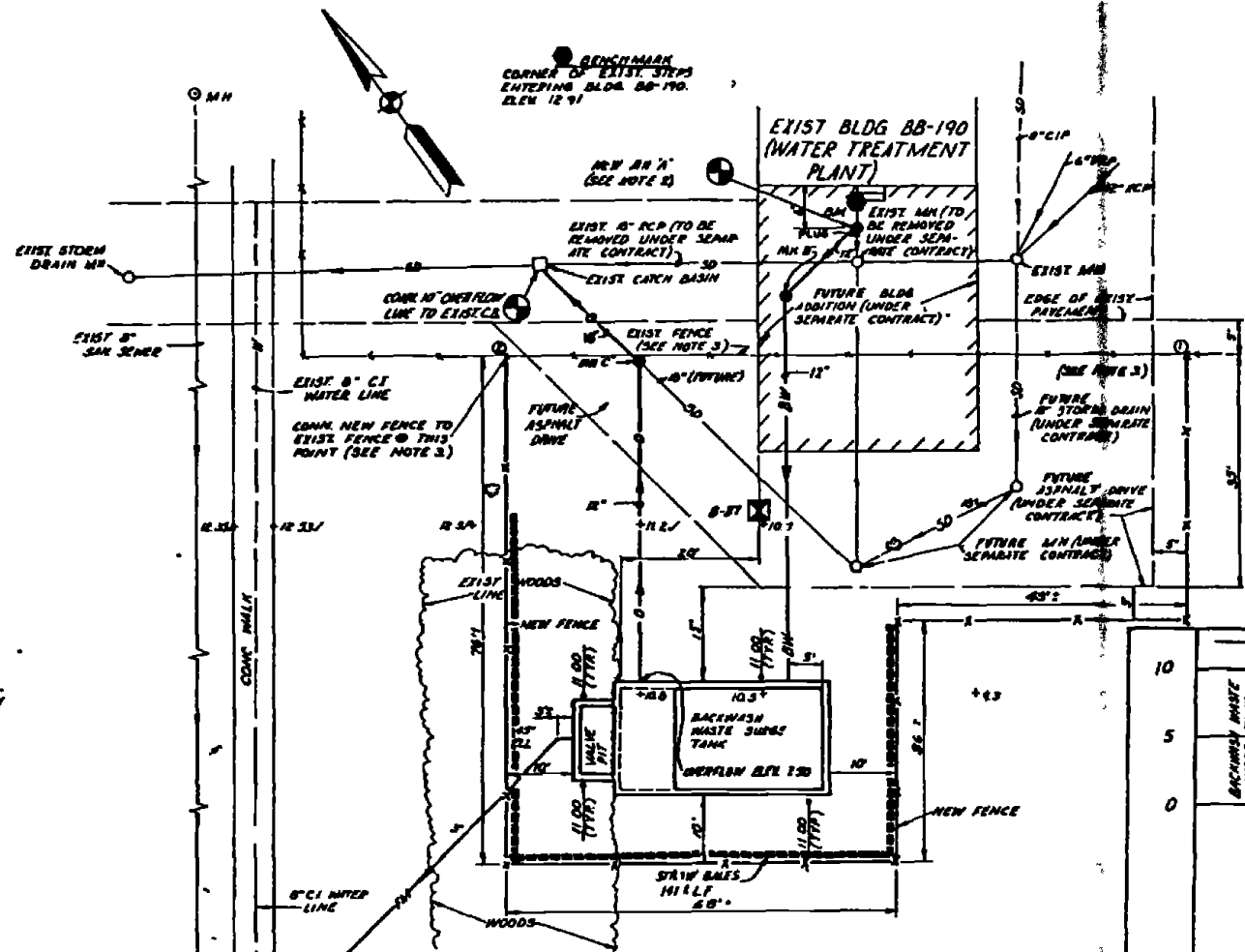
**SITE XII-G
LAYOUT PLAN
SCALE 1"=10'**

RECORD DRAWING DATE FEB 11 1951		C-102	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS		ATLANTIC DIVISION	
DEPT. OF THE NAVY NAVAL BRANCH		NAVAL FACILITIES ENGINEERING COMMAND	
MARINE CORPS BASE		CAMP LEEMUNE, NORTH CAROLINA	
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS - SITES XII-B, XII-C, XII-D, XII-E, XII-F & XII-G			
DRAWING NO. 4052571		SCALE AS SHOWN	

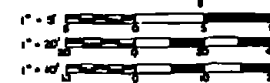


REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

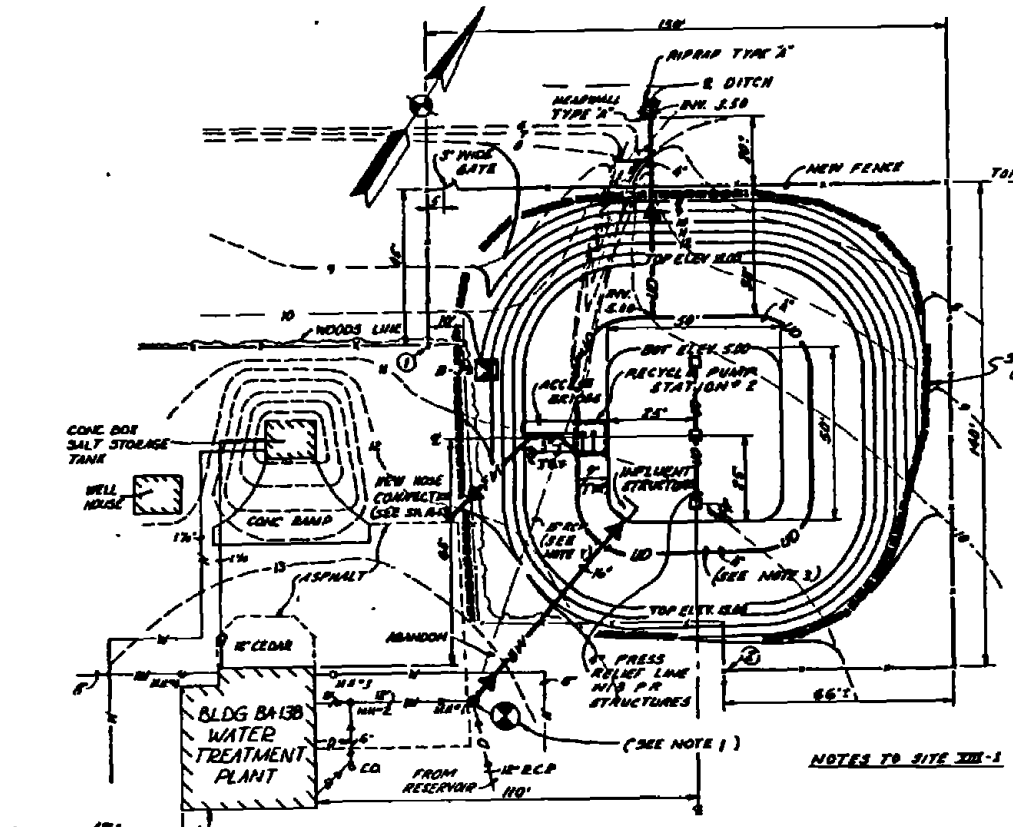
- NOTES TO SITE XII-1**
- REFER TO DRAWINGS FOR EXPANSION OF THE COURTHOUSE BAY WATER TREATMENT PLANT BEING PREPARED BY THE J.E. SARRINE COMPANY FOR DETAILS OF THE PROPOSED WORK SHOWN WORK UNDER THIS CONTRACT SHALL INCLUDE RELOCATION OF FENCE, CONSTRUCTION OF BACKWASH WASTE SURGE TANK, AND INSTALLATION OF 12" BACKWASH LINE, OVERFLOW LINE & M.S. AND 3" FORCE MAIN.
 - CONSTRUCT NEW MANHOLE "A" DIRECTLY OVER EXIST 10" DRAIN LINE AS SHOWN PLUS AND ABANDON REMAINING PORTION OF 10" LINE TO THE EXISTING MANHOLE.
 - CONNECT NEW FENCE TO EXIST FENCE AT PTS 1 AND 2 AS SHOWN. PORTION OF EXIST FENCE BETWEEN PTS 1 AND 2 SHALL BE REMOVED.
 - FOR DETAILS OF BACKWASH WASTE SURGE TANK, SEE SHEETS M-12.4-1.



RECORD DRAWING DATE FEB 1 1983	C-103
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 11701 W. WINDY HILL RD. DALLAS, TEXAS 75244	DEPARTMENT OF THE NAVY NAVY FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION HOBOKEN, NEW JERSEY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DESIGNER: GWA CHECKER: GWA DATE: 11/21/79	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITES XII-1, XII-2 & XII-3
PROJECT NO. 80091	DRAWING NO. 4052572
DATE: 1/6/83	CONTRACT NO. N62430 TB B 8226
SCALE AS SHOWN	SHEET 03 OF 11

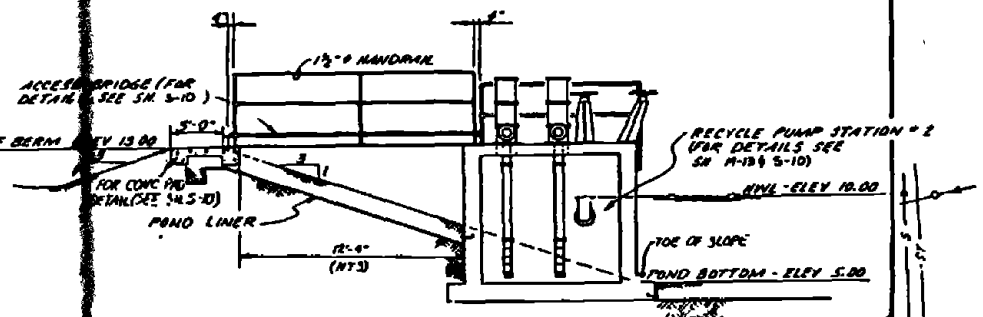


REV	DESCRIPTION	DATE	APPROVED

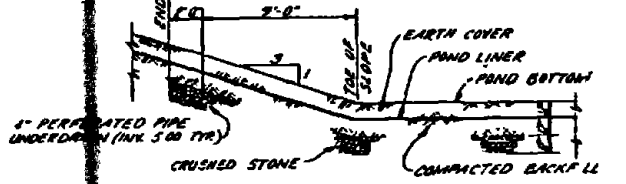


**SITE XIII-1
GRADING & LAYOUT PLAN**
SCALE 1" = 20'

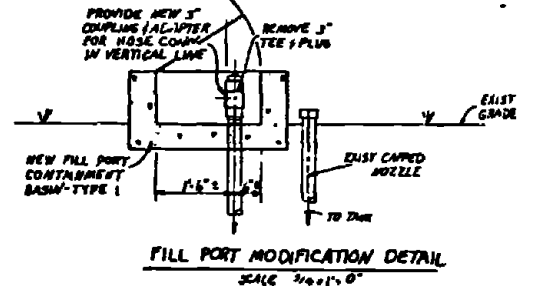
BM - BENCHMARK
1" CUT ON RIM ON TOP OF
FIRE HYDRANT ELEV 14.40



**TYPICAL SECTION - SLUDGE LAGOON
AND PUMP STATION**
SCALE 1/2" = 1'-0"

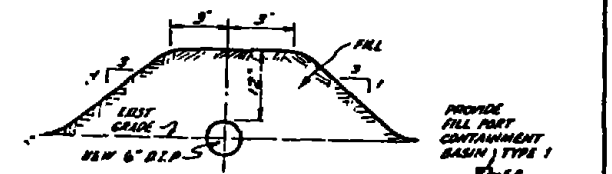


TYPICAL BERM DETAIL
SCALE 1/2" = 1'-0"

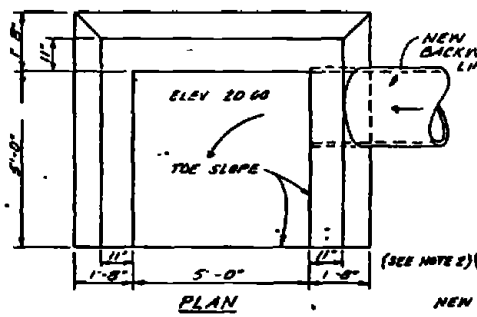
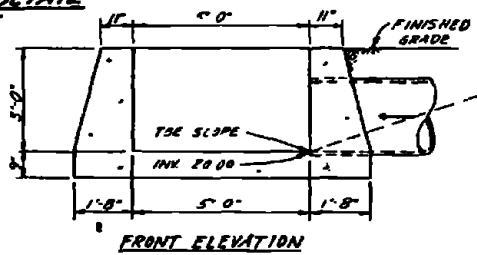


FILL PORT MODIFICATION DETAIL
SCALE 1/2" = 1'-0"

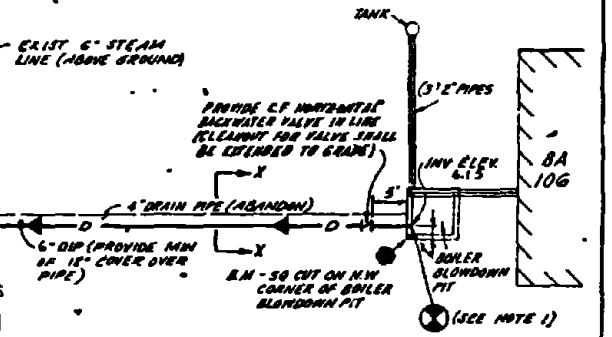
- NOTES FOR XIII-A**
- CONTRACTOR SHALL PROVIDE NEW 4" D.I.R. BOILER BLOWDOWN LINE AND EXIST BLOWDOWN PIT PLUS AND ABANDON EXIST 4" DRAIN LINE FROM PIT
 - CONSTRUCT NEW SANITARY MANHOLE DIRECTLY OVER EXIST 10" SANITARY SEWER



SECTION X-X
NO SCALE



INFLUENT STRUCTURE DETAIL
SCALE 1/2" = 1'-0"

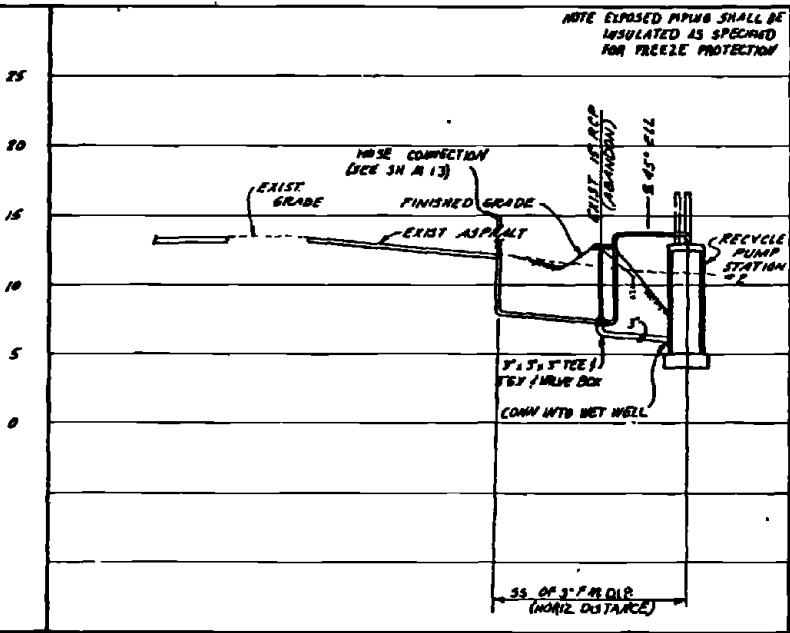


**SITE XIII-A
LAYOUT PLAN**
SCALE 1" = 10'

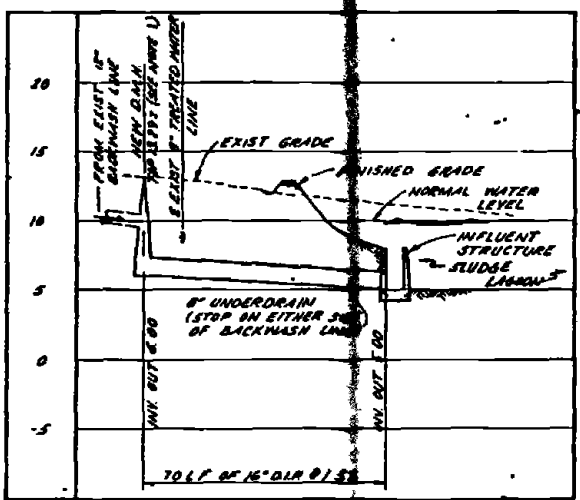
NOTES TO SITE XIII-1

- REMOVE EXIST 14" x 11" AND REPLACE WITH NEW DROP MANHOLE. CONNECT EXIST 12" BACKWASH LINE AND 12" DRAIN LINE FROM RESERVOIR AND NEW 16" BACKWASH LINE TO NEW DROP MANHOLE. PLUS AND ABANDON EXIST 12" BACKWASH LINE TO DITCH
- FOR INSTALLATION REQUIREMENTS AND DETAILS OF POND LINER SEE SHEET C-153.
- PERFORATED PIPE UNDERDRAINS SHALL BE PROVIDED IN THE LAGOON BERMS WHERE SHOWN. GRAIND WATER PICKED UP FROM UNDERDRAINS SHALL BE DISCHARGED TO THE EXIST DRAINAGE DITCH NORTH OF LAGOON
- EXIST FENCE LOCATED BETWEEN POINTS (1) AND (2) SHALL BE REMOVED. INSTALL NEW FENCE AS SHOWN

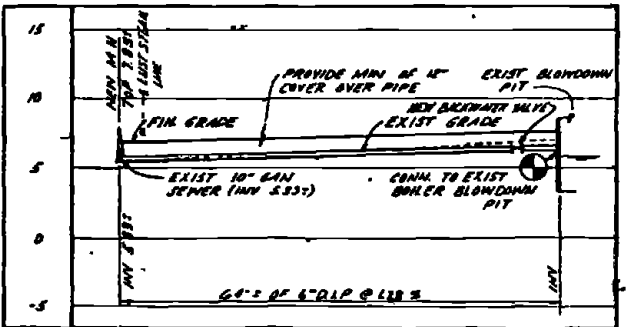
NOTE EXPOSED PIPING SHALL BE INSULATED AS SPECIFIED FOR TREE PROTECTION



PROFILE - FORCE MAIN (SITE XIII-1)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



PROFILE - BACKWASH LINE (SITE XIII-1)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



PROFILE - 4" BOILER BLOWDOWN LINE
SCALE 1" = 5' (VERT)
1" = 10' (HORIZ)

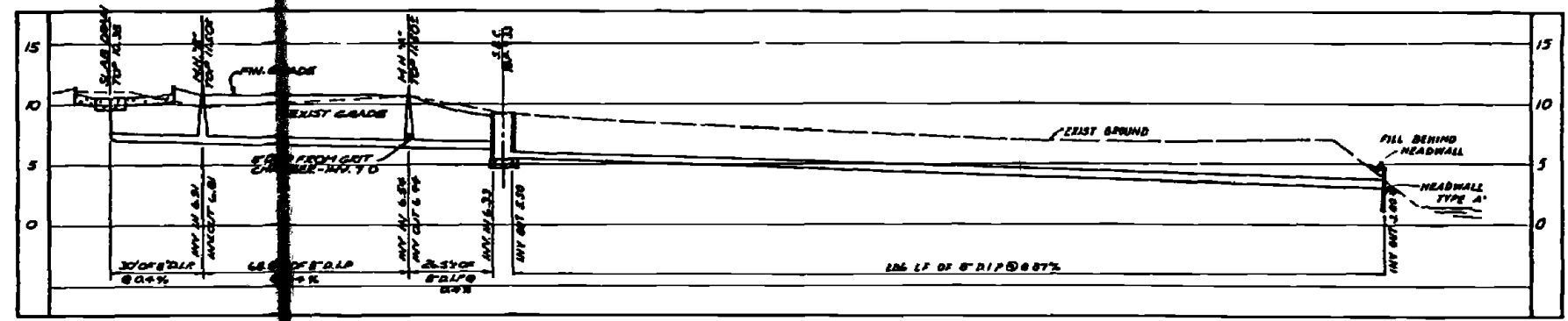
RECORD DRAWING DATE: FEB 11 1971	C-104
AMSTEIN BROCKENBROUGH AND ASSOCIATES ENGINEERS & ARCHITECTS 1000 W. 10th St. Wilmington, N.C. 28401	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
PROJ. NO. 71-11 DATE: 12/21/70 BY: J. P. ... CHECKED: ... APPROVED: ...	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SIT' PLANS & PROFILES - SITES XIII-A & XIII-1 DRAWING NO. 4052573 CONTRACT NO. N62240 10 B 0260 SCALE: 1/2" = 1'-0" (VERT) 1" = 20' (HORIZ)



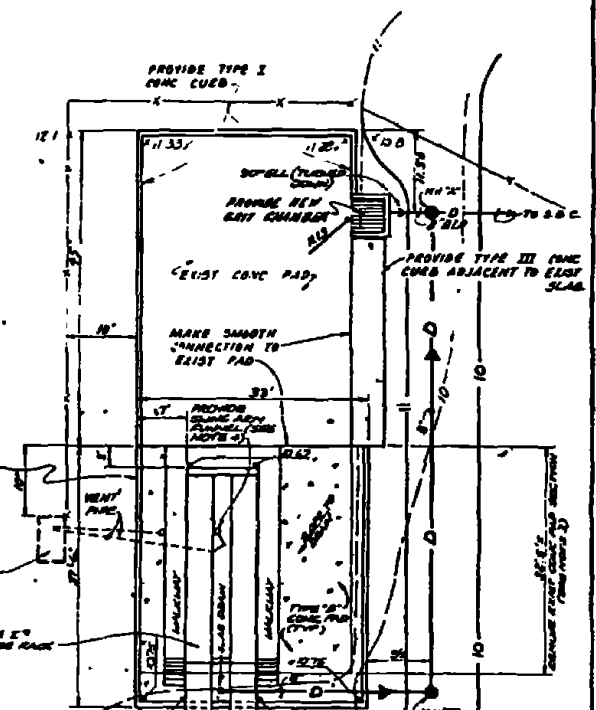
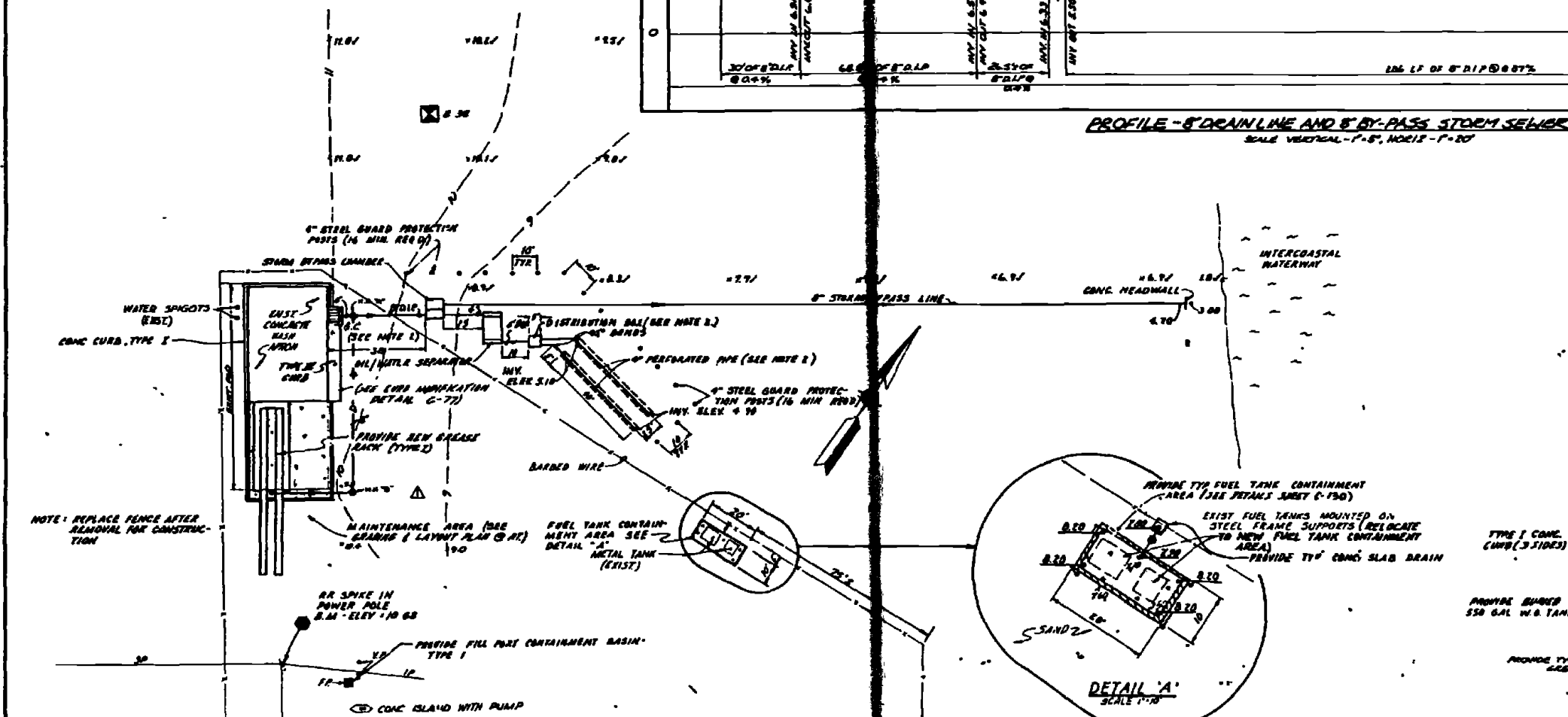
STN.	DESCRIPTION	DATE	APPROVED
2	WIDENED SEWER DUCT ALONG S. LEASE LINE	1/15/64	

- NOTES**
1. GRT CHAMBER SHALL BE LOCATED AT THE EDGE OF EXISTING CONC. RAMP
 2. FOR TYPICAL DETAILS OF DISTRIBUTION BOX AND DRAINFIELD SYSTEM SEE SHEET C-101
 3. EXIST CONC. PAD AND EXIST SEWER BACK SHALL BE REPAIRED USING REINFORCED AND BELL CONCRETE. PAD (TYPE 3) AND NEW SEWER BACK SHALL BE CONSTRUCTED.
 4. LOCATION OF SEWER AND MANHOLE MAY BE ADJUSTED FROM THAT SHOWN IN PLAN VIEW TO ACCOMMODATE VEHICLES ON DRAINAGE. LOCATION OF SEWER AND MANHOLE SHALL BE AS DIRECTED BY THE CONTRACTOR'S OFFICER.
 5. CONCRETE CURB BENEATH SEWER BACK SHALL BE CONSTRUCTED ALONG WITH CONSTRUCTION OF SLAB FOR SEWER BACK CURB SHALL MATCH SIZE AND DIMENSIONS OF TYPE I CURB.
 6. FOR DETAIL OF SLAB DRAIN, SEE S.D.C.-48

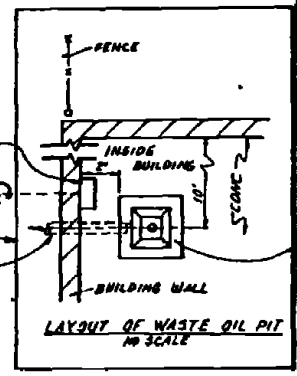
GRT CHAMBER		DISTRIBUTION BOX	
TOP - 11.13	TOP - 8.00	TOP - 8.00	TOP - 8.00
INV. IN - 7.43	INV. IN - 4.92	INV. IN - 4.92	INV. IN - 4.92
BOTTOM - 7.63	INV. OUT - 5.72	INV. OUT - 5.72	INV. OUT - 5.72
	INV. OUT (BYPASS) 5.30		



PROFILE - 8\"/>



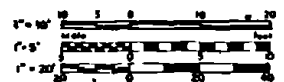
GRADING & LAYOUT PLAN MAINTENANCE AREA
SCALE 1" = 10'



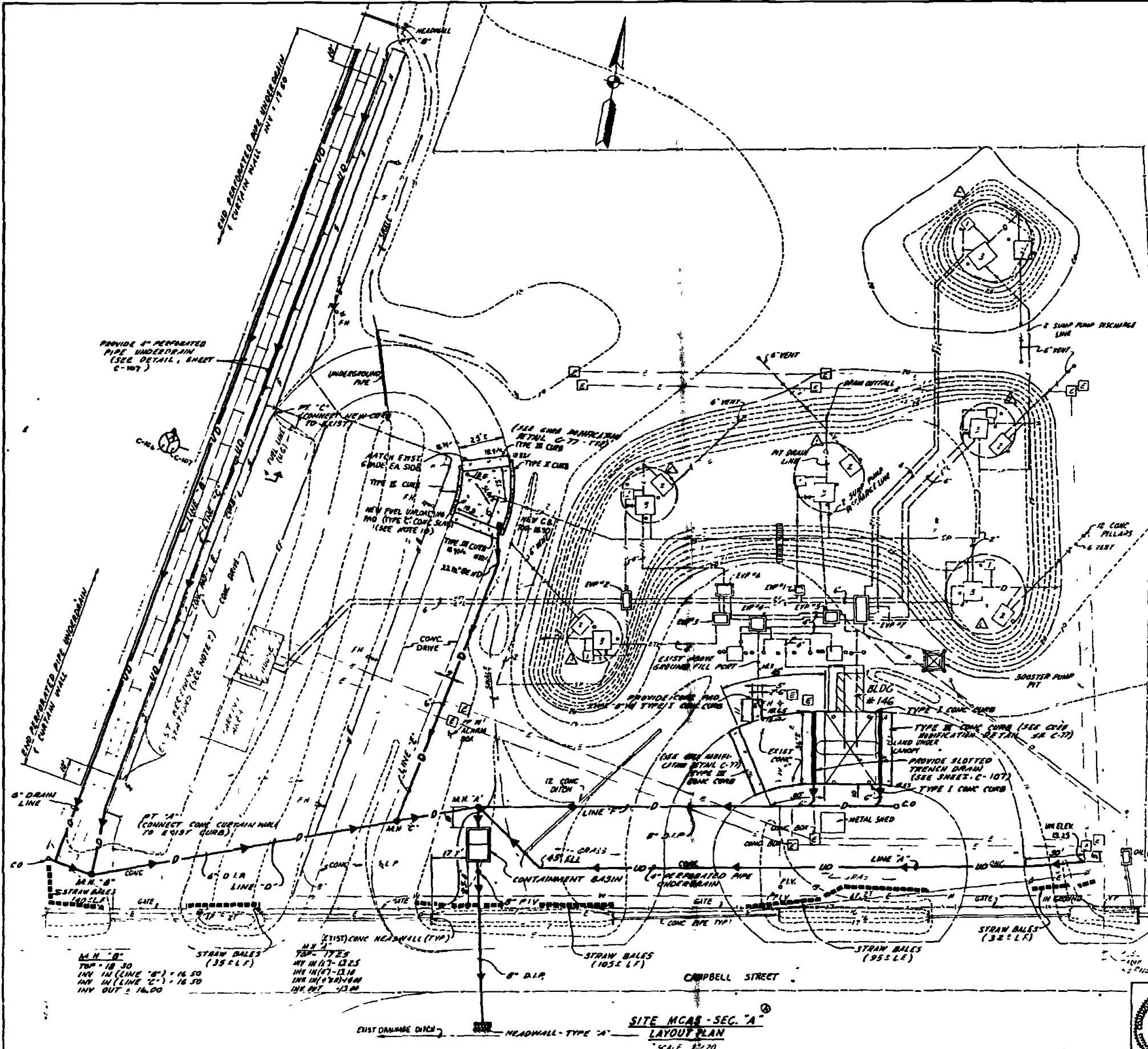
LAYOUT OF WASTE OIL PIT
NO SCALE

SITE XIII - B.C.D. AND E LAYOUT PLAN
SCALE 1" = 20'

RECORD DRAWING DATE FEB 11 1964	C-105
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 1000 W. 10th St. Arlington, Va.	NAVY FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION CAMP LEJEUNE NORTH CAROLINA
DR. DES. BY: [Signature] CHKD. BY: [Signature] APP. BY: [Signature] DATE: 1/15/64	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLANS & PROFILES - SITE XIII - B.C.D. & E CIVIL
PROJECT NO. 80091	DRAWING NO. 4052574
DATE: 1/15/64	CONTRACT NO. N62470 10-R-8260
NO. OF SHEETS: 1	SHEET NO. 11
DATE: 1/15/64	REV. NO. 152574



REVISED AS BUILT	DATE APPROVED
------------------	---------------



LEGEND

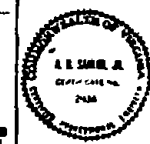
- ▲ - TANK 116
- - FILL PIT
- - VENT PIT
- ⊠ - PUMP PIT
- ⊡ - ELEC. M.N.
- EFL - EXIST. FILL LINE
- ETL - EXIST. TRENCH LINE
- EVP - EXIST. VALVE PIT
- SP - SUMP PUMP DISCHARGE LINE
- D - 4" DIA. LINE
- V - VENT LINE
- C - CONDUIT

NOTES

- 1) CONTRACTOR SHALL EXERCISE EXTREME CARE IN ANY EXCAVATION.
- 2) FOR REPLACEMENT OF PERMANENT CURB, SEE SHEET M-C-5 M-9.
- 3) FOR NEW FUEL FARM TO BE 15' WIDE, SEE SHEET M-C-5 M-9.
- 4) FOR NEW FUEL FARM WITH E.E. SEE SHEET M-C-5 M-9.
- 5) FOR VALVE PIT TO BE 12' DIA., SEE SHEET M-C-5 M-9.
- 6) CONTRACTOR SHALL PROVIDE SLOTTED TRENCH DRAIN AT A FUEL FARM TO BE 15' WIDE.
- 7) FOR VALVE PIT TO BE 12' DIA., SEE SHEET M-C-5 M-9.
- 8) FOR VALVE PIT TO BE 12' DIA., SEE SHEET M-C-5 M-9.
- 9) FOR PROFILES OF LINE 'D' AND LINE 'E' SEE SHEET C-107.
- 10) REMOVE EXIST. CONC. ROAD FOR INSTALLATION OF NEW CONC. PAD AND CURB FOR THE SUMP PUMP DISCHARGE FUEL UNLOADING PAD. PROVIDE NEW CONC. PAD TYPE 'C' WITH CURBS AS SHOWN. DRAIN NEW PAD TOWARD NEW CATCH BASIN.

RECORD DRAWING DATE: FEB 11, 1960	C-106
AUSTIN BROCKENBROUGH AND ASSOCIATES INCORPORATED 1000 W. 10th St. FORT WORTH, TEXAS	ATLANTIC DIVISION ENGINEERING CAMP, EJEUNE NORTH CAROLINA
PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN - MCAS "A" FUEL FARM	DATE: 1/27/60 SCALE: AS SHOWN
APPROVED: [Signature]	DATE: 1/27/60
APPROVED: [Signature]	DATE: 1/27/60

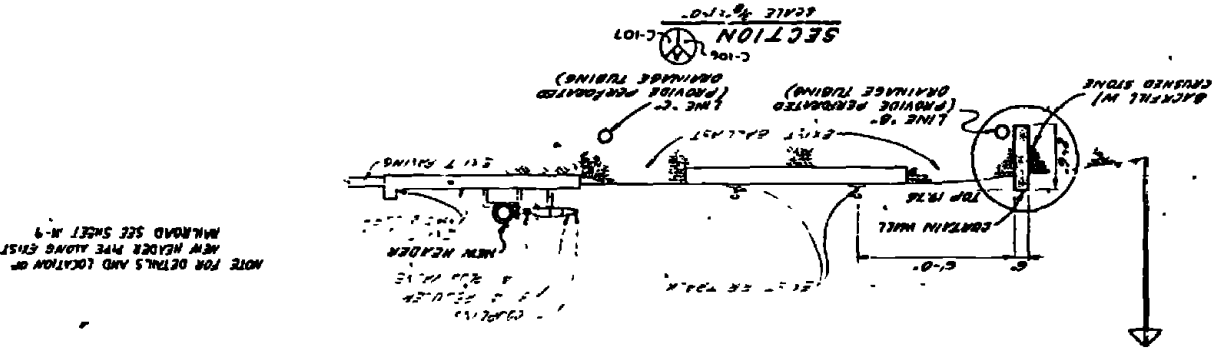
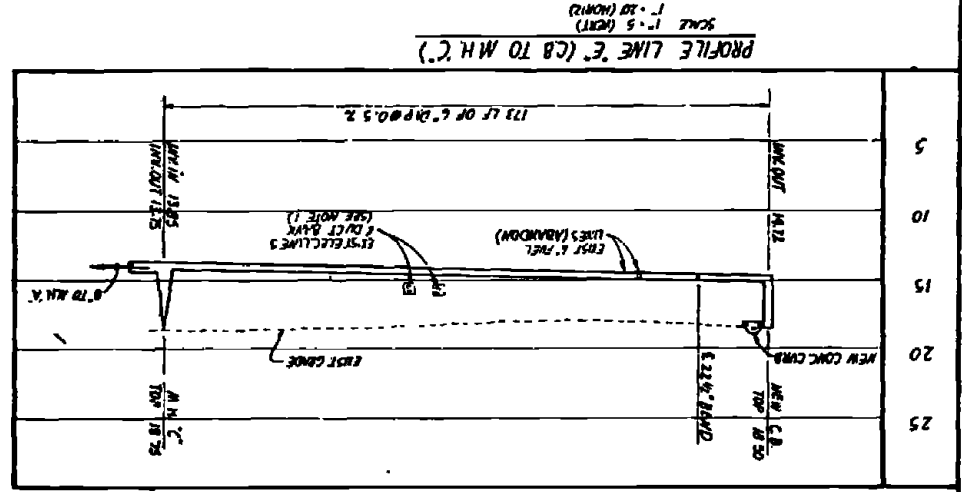
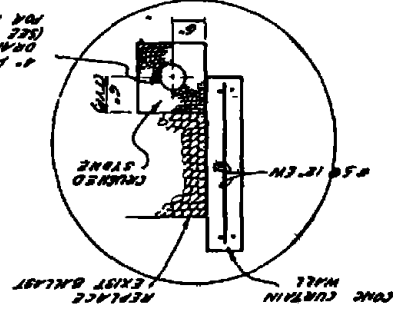
**SITE MCAS - SEC. 'A'
LAYOUT PLAN
SCALE 1" = 20'**



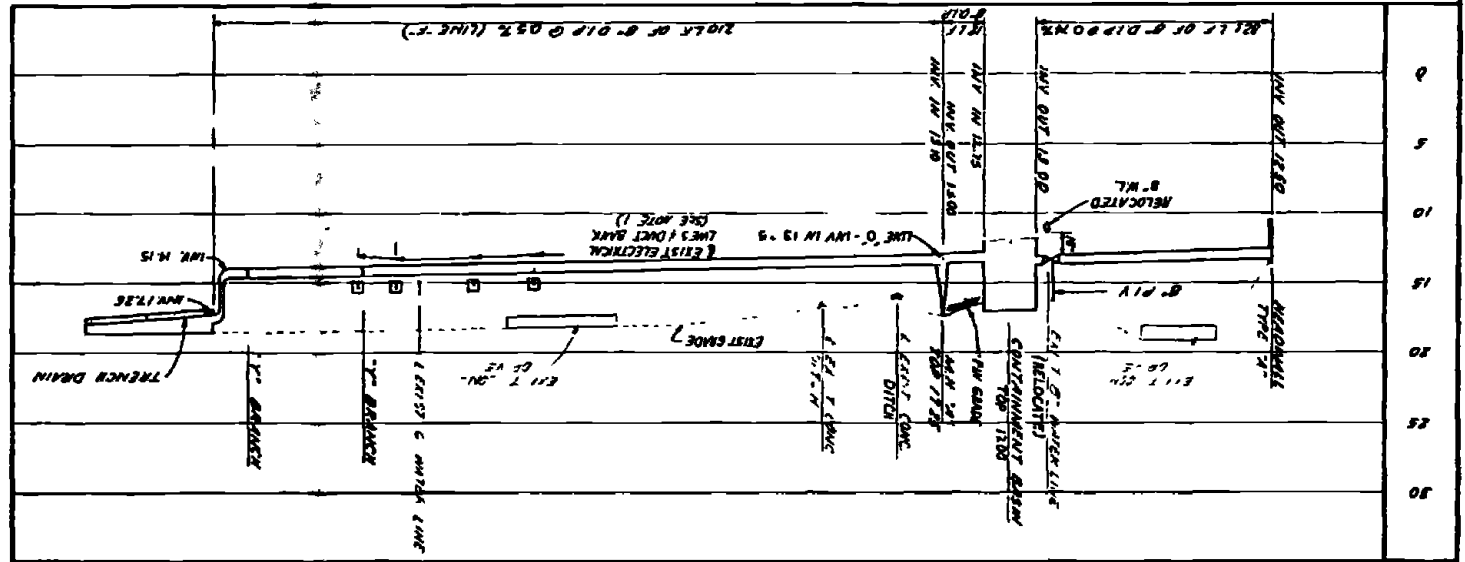
RECORD ONLY TO
 DATE FEB 1 1963
 AUSTIN ENGINEERING
 AND ASSOCIATES
 1100 N. BRASS
 AUSTIN, TEXAS 78701
 PROJECT: INDUSTRIAL WASTE COLLECTION
 & TREATMENT FACILITIES
 PROFILES & DETAILS - SITE MCAS - A
 CIVIL
 SHEET NO. C-107
 PROJECT NO. 80091



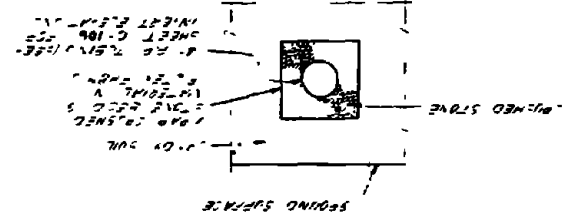
INSTALLATION DETAIL
LINES D, E & C
PERFORATED DRAINAGE TUBING
 SCALE 1/2" = 1'-0"



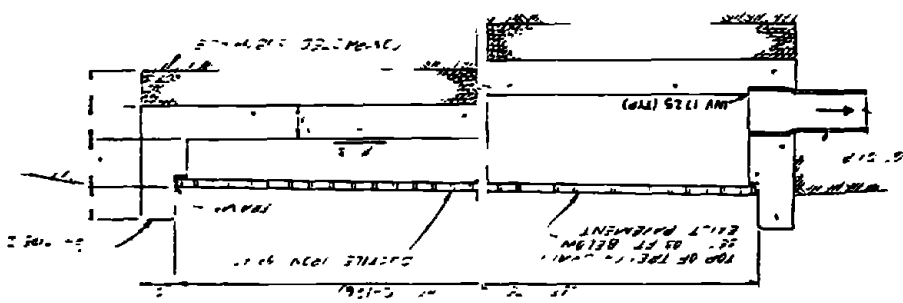
PROFILE FROM TRENCH DRAIN TO HEADWALL
 SCALE 1" = 5' (VERT)
 SCALE 1" = 20' (HORIZ)



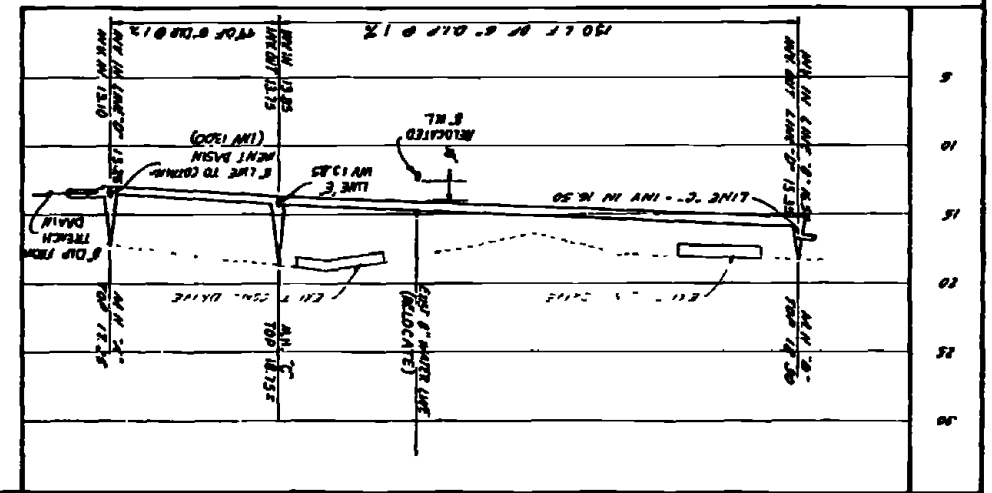
INSTALLATION DETAIL
LINE A
PERFORATED DRAINAGE TUBING
 SCALE 1/2" = 1'-0"



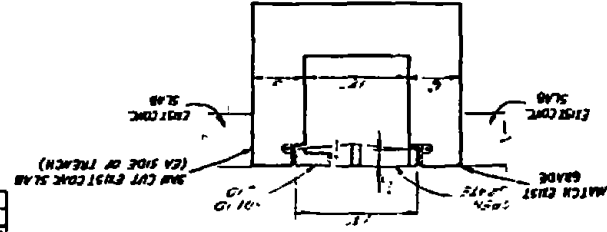
TRENCH DRAIN DETAIL
SECTIONAL VIEW
 SCALE 1" = 1'-0"



PROFILE: LINE D (SITE: MCAS - SEC. A)
 SCALE 1" = 5' (VERT)
 SCALE 1" = 20' (HORIZ)

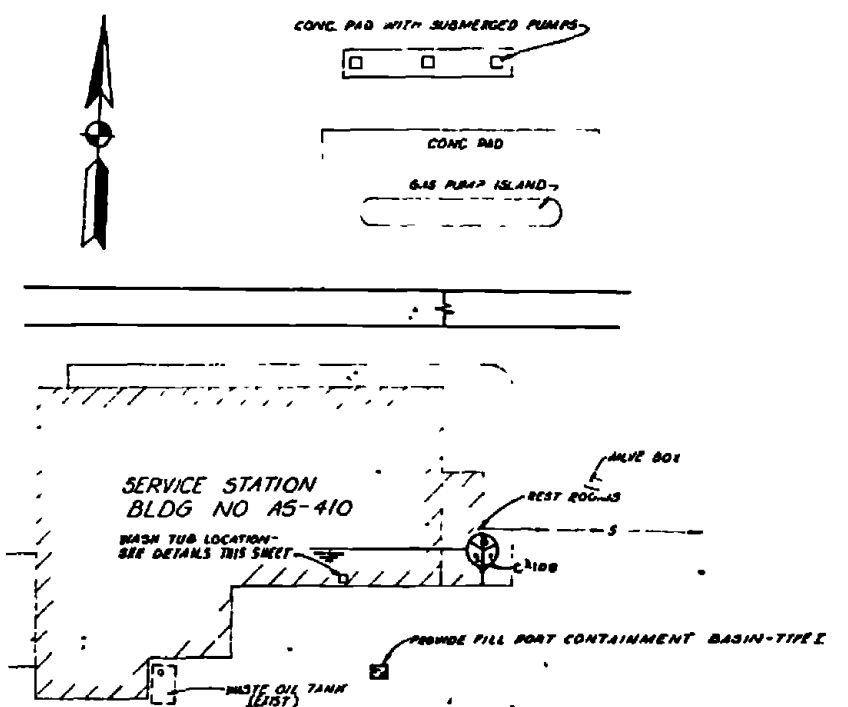
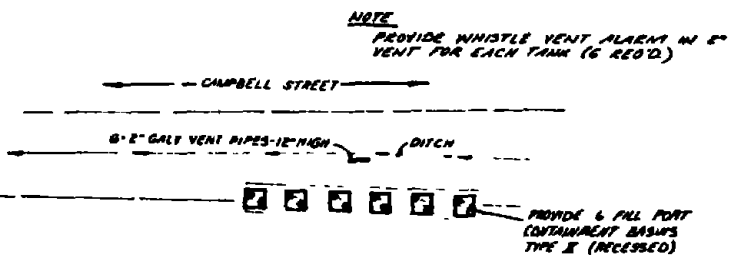
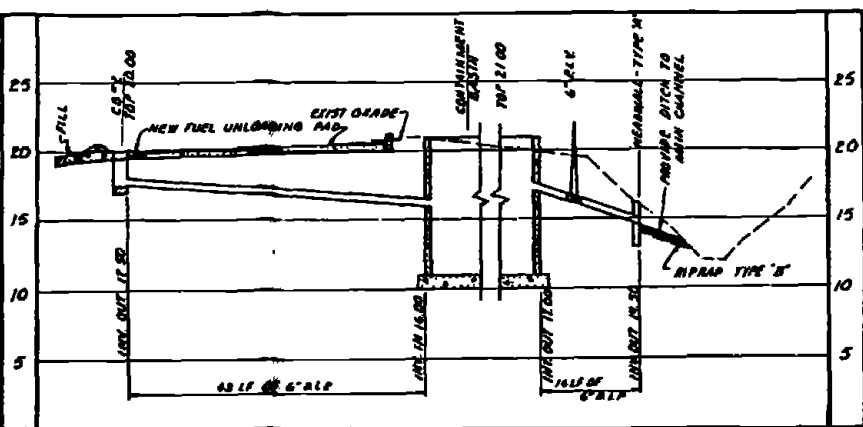
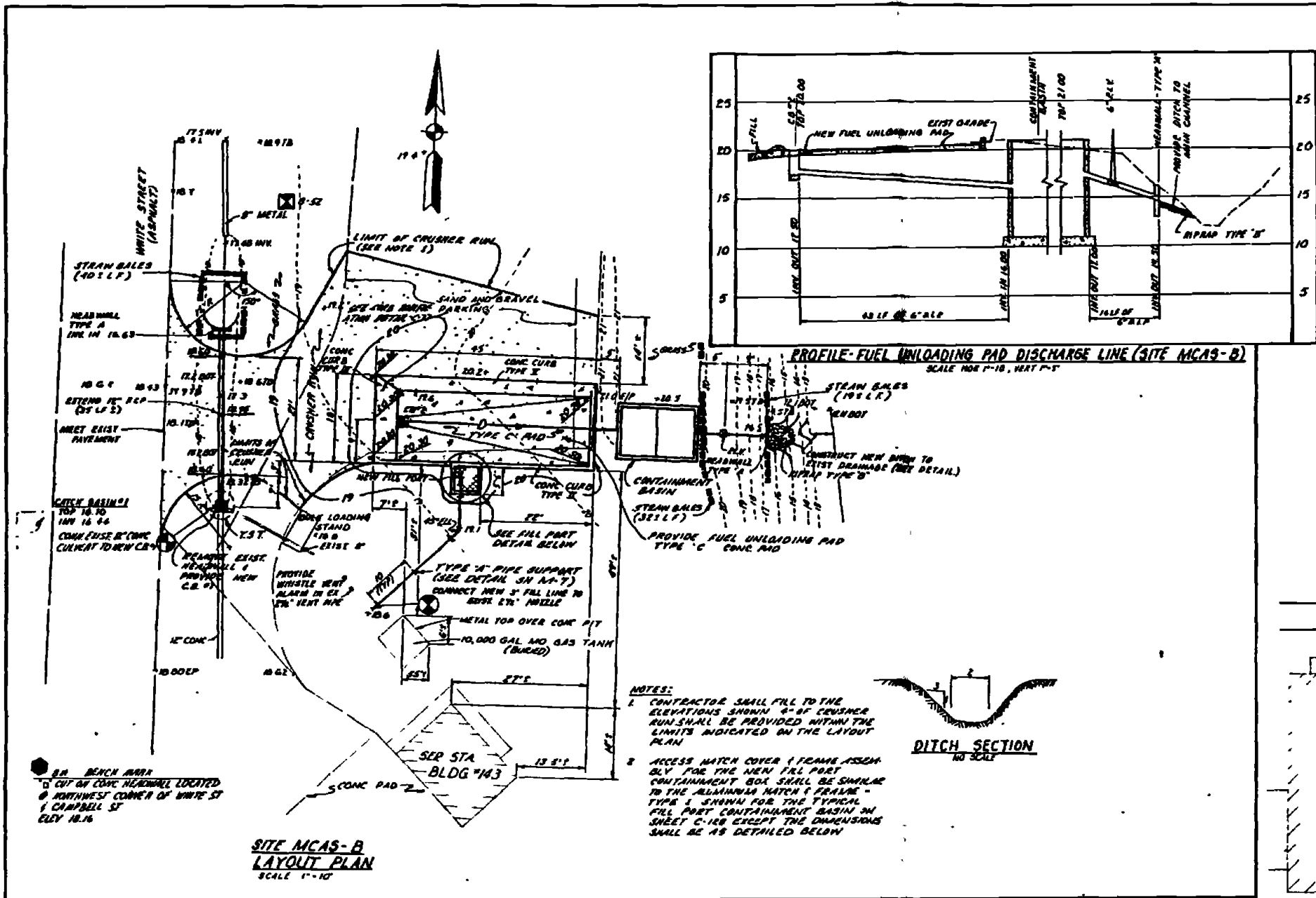


TYPICAL SECTION OF TRENCH DRAIN
 SCALE 1/2" = 1'-0"

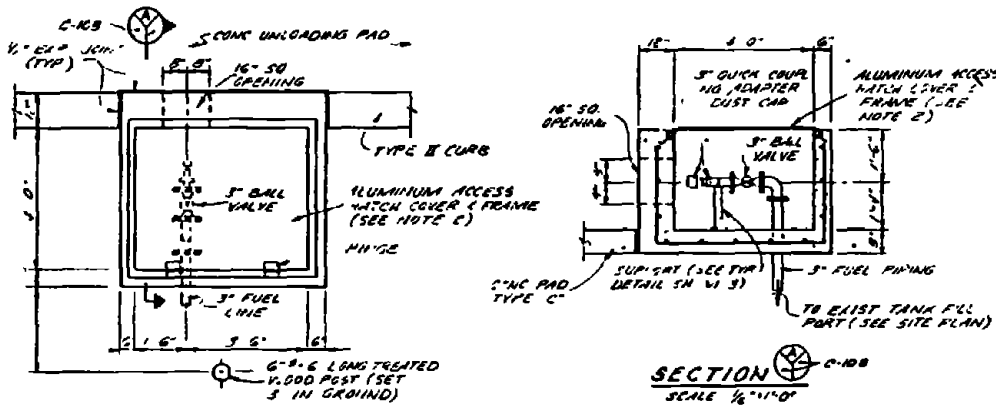


- NOTES**
1. VERIFY LOCATION AND ELEVATION OF EXIST UTILITY LINES PRIOR TO CONSTRUCTION OF NEW LINES
 2. FOR PLANS OF NEW LINES SEE SHEET C-108

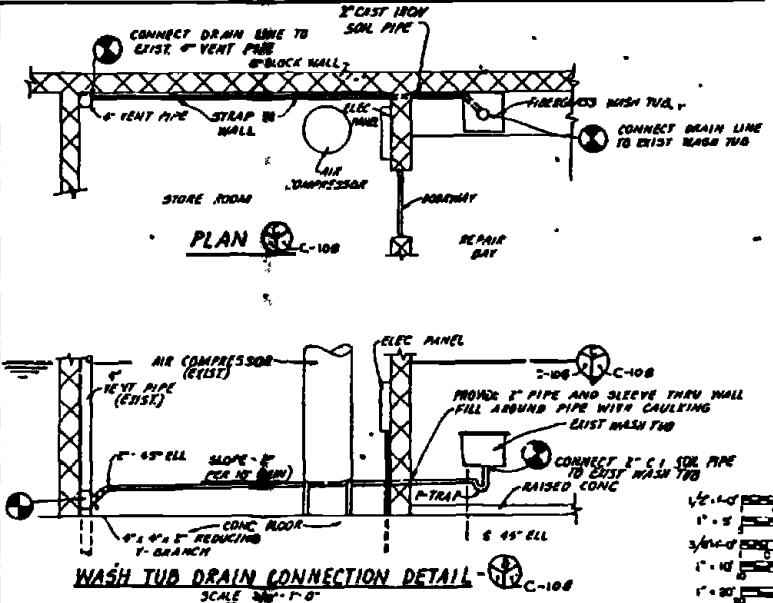
REVISIONS		DATE	APPROVED



- NOTES:**
- CONTRACTOR SHALL FILL TO THE ELEVATIONS SHOWN 2\"/>
 - ACCESS MATCH COVER & FRAME ASSEMBLY FOR THE NEW FILL PORT CONTAINMENT BOX SHALL BE SIMILAR TO THE ALUMINUM MATCH COVER FRAME TYPE I SHOWN FOR THE TYPICAL FILL PORT CONTAINMENT BASIN ON SHEET C-108 EXCEPT THE DIMENSIONS SHALL BE AS DETAILED BELOW



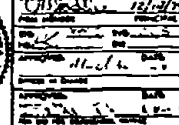
SECTION
SCALE 1/2\"/>



WASH TUB DRAIN CONNECTION DETAIL
SCALE 3/8\"/>

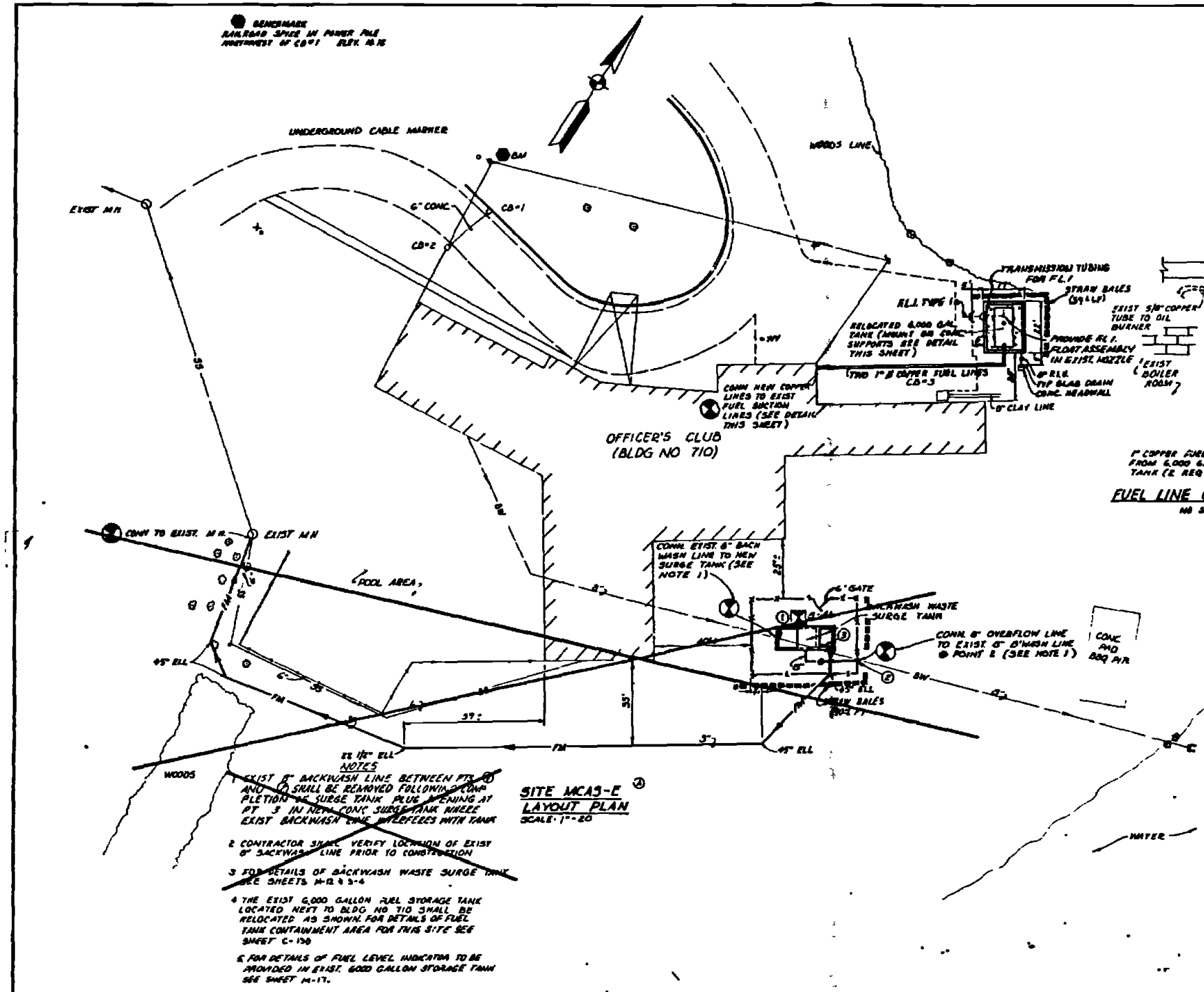
SITE MCAS-C LAYOUT PLAN
SCALE 1\"/>

RECORD DRAWING DATE FEB 1 1963	C-108
AUSTIN BROCKBROUGH AND ASSOCIATES CORPORATION 1100 N. W. 10th St. FORT WORTH, TEXAS	DEPARTMENT OF THE NAVY MARINE CORPS ENGINEERING DIVISION ATLANTIC DIVISION MARINE STATION CAMP LEJEUNE, NORTH CAROLINA
DESIGNER: DEB CHECKER: JFL DATE: 12/2/59	MARINE CORPS BASE INDUSTRIAL WASTE COLLECTION SITE PLANS, PROFILE & DETAILS SITES - MCAS-B & MCAS-C CIVIL
PROJECT NO. 4052577	CONTRACT NO. 4052577 B & B26B
SCALE AS NOTED, UNLESS OTHERWISE SPECIFIED	DATE 12/2/59



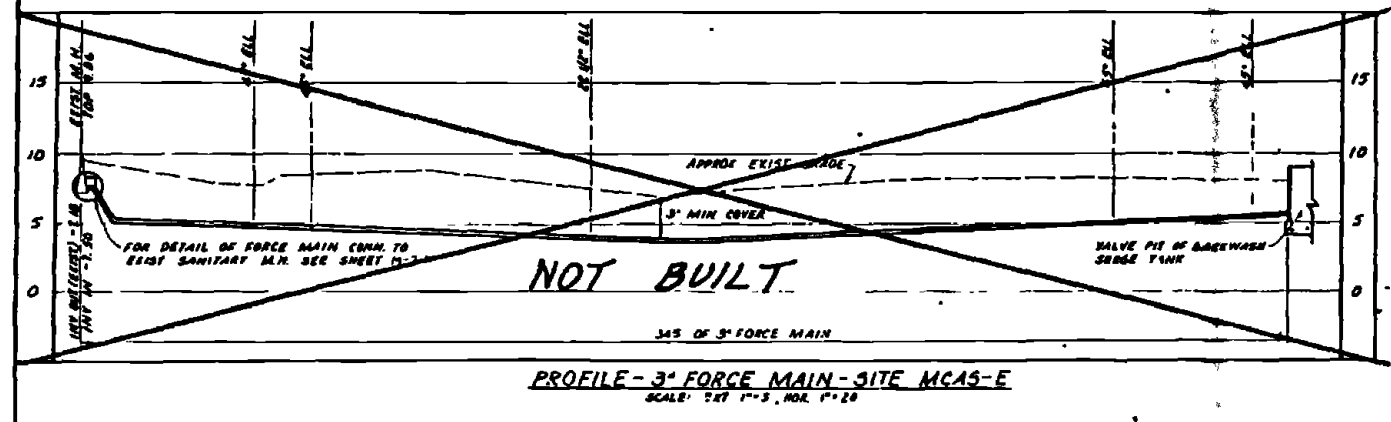
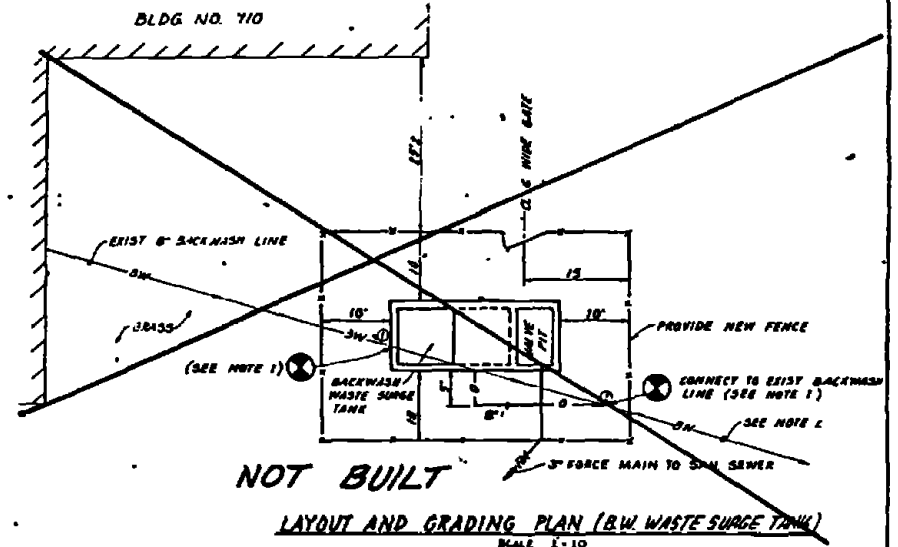
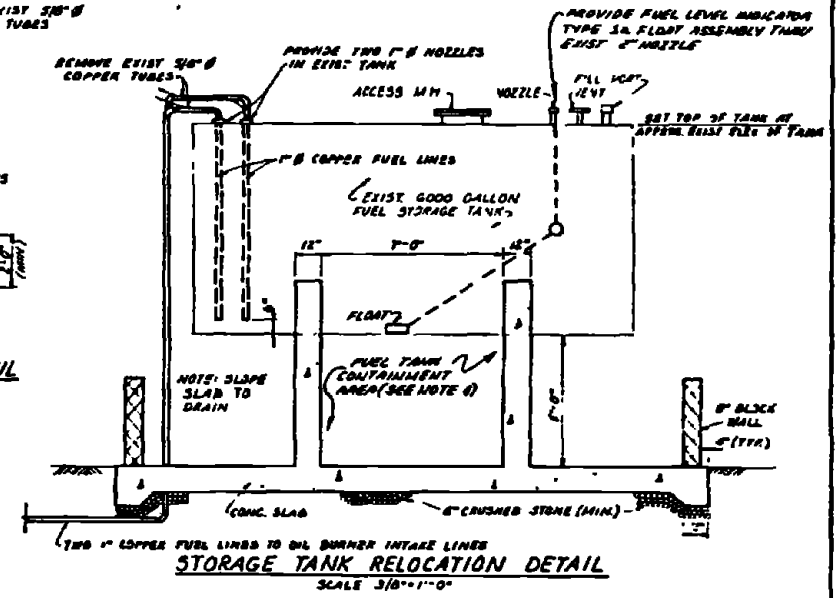
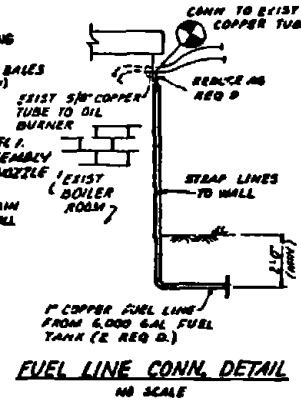
BENCHMARK
RAILROAD SPIKE IN POWER POLE
NORTHWEST OF CB#1 ELEV. 10.12

SYMBOL	DESCRIPTION	DATE	APPROVED
(2)	REVISED AS BUILT	12/10/01	



- NOTES**
- EXIST 8" BACKWASH LINE BETWEEN PTD AND (D) SHALL BE REARVED FOLLOWING COMPLETION OF SURGE TANK PLUS OPENING AT PT 3 IN NEW 6" CONCRETE SURGE TANK. EXIST BACKWASH LINE INTERFLECTS WITH TANK.
 - CONTRACTOR SHALL VERIFY LOCATION OF EXIST 8" BACKWASH LINE PRIOR TO CONSTRUCTION.
 - FOR DETAILS OF BACKWASH WASTE SURGE TANK SEE SHEETS M-12, 13-4.
 - THE EXIST 6000 GALLON FUEL STORAGE TANK LOCATED NEXT TO BLDG NO 710 SHALL BE RELOCATED AS SHOWN FOR DETAILS OF FUEL TANK CONTAINMENT AREA FOR THIS SITE SEE SHEET C-130.
 - FOR DETAILS OF FUEL LEVEL INDICATOR TO BE PROVIDED IN EXIST 6000 GALLON STORAGE TANK SEE SHEET M-17.

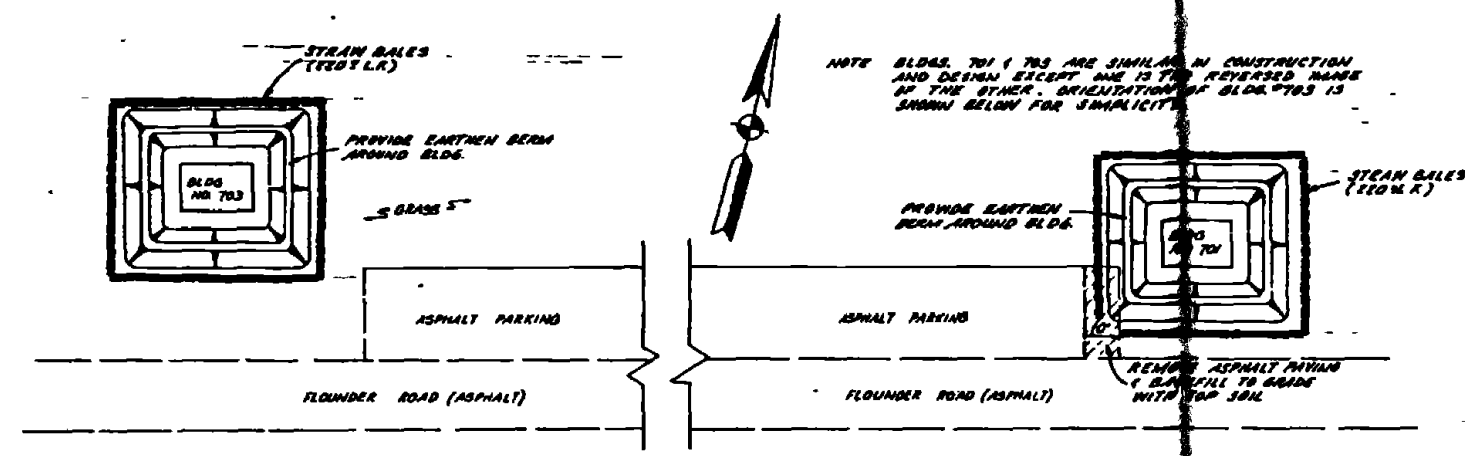
SITE MCAS-E
LAYOUT PLAN
SCALE: 1"=20'



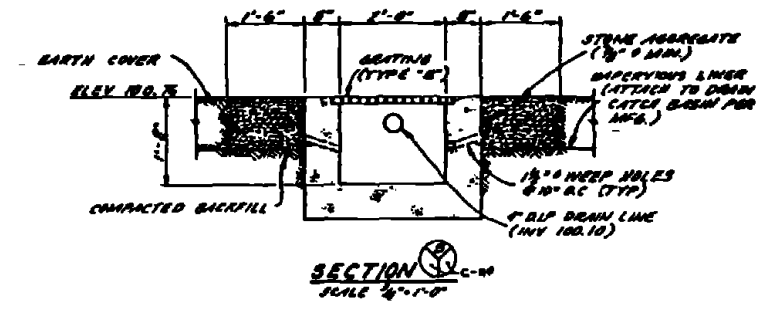
RECORD DRAWING DATE: FEB 11 '01	C-109
AUSTIN BROCKENBROUGH AND ASSOCIATES 1770 S. W. 10th St. MIAMI, FL 33135 TEL: 305-271-1111 FAX: 305-271-1112	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEAURE, NORTH CAROLINA INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN, PROFILES & DETAILS - SITE MCAS-E CIVIL
PROJECT NO. 4052578 SHEET NO. 1 OF 1	DATE: 12/10/01



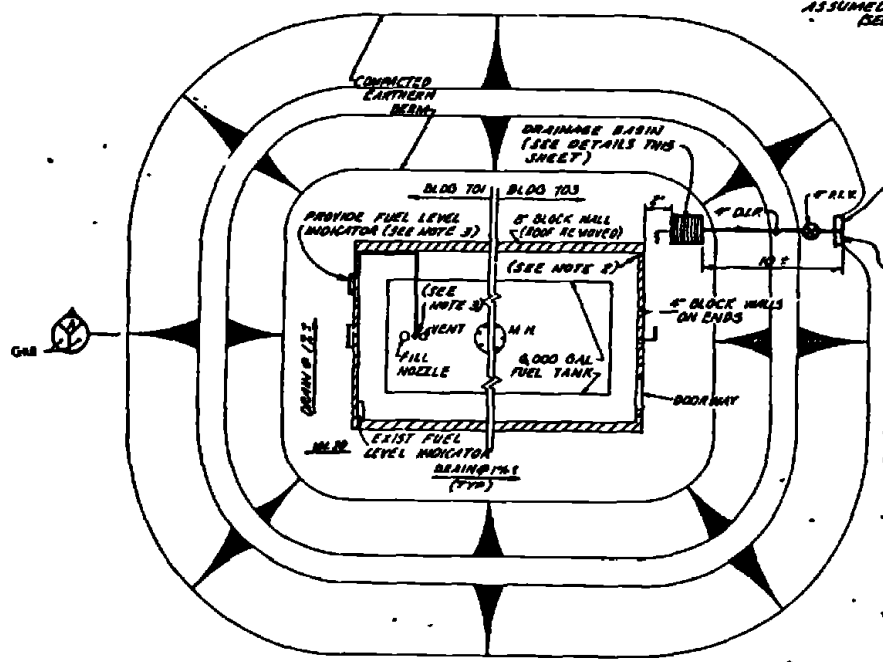
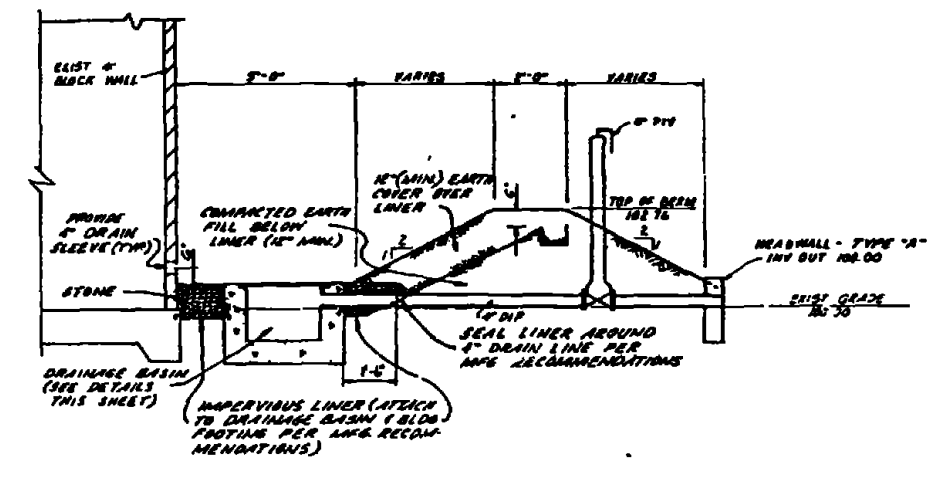
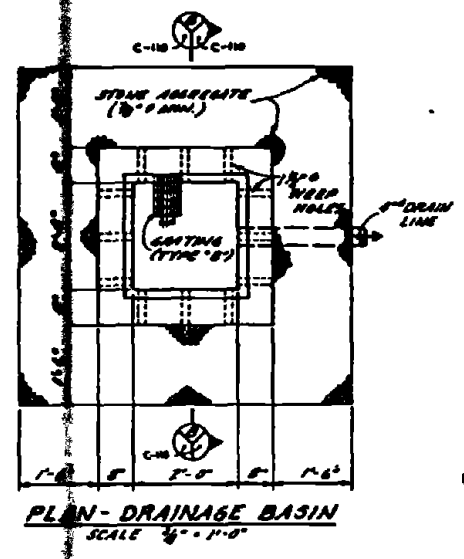
REV.	DESCRIPTION	DATE	APPROVED



LAYOUT PLAN
SITE MCAS-F
SCALE 1/4" = 1'-0"

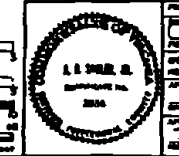
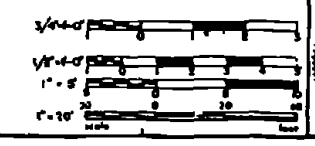
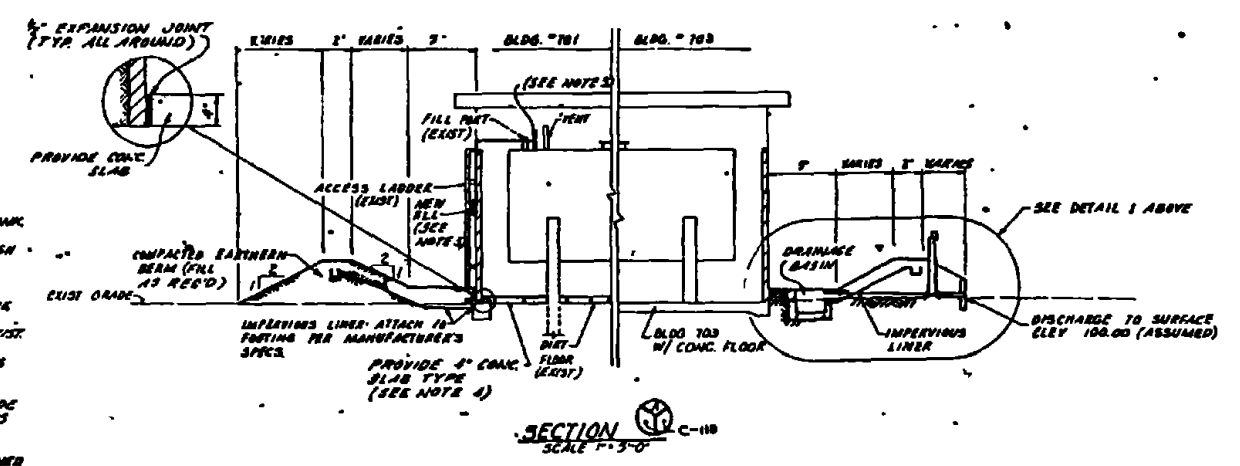


NOTE APPROXIMATE EXISTING GRADE ASSUMED TO BE ELEV. 100.00 (SEE NOTE 5)



PLAN - BLDGS #701 AND #703
SCALE 1/4" = 1'-0"

- NOTES:
- 1) REMOVE EXIST. F.L.I. AND FUEL TANK.
 - 2) PROVIDE 5" DI. DRAIN SLEEVE THROUGH 5" BLOCK WALL SHOWN. SEE DETAIL 1 FOR ELEVATION.
 - 3) PROVIDE FUEL LEVEL INDICATOR TYPE 10 AS DETAILED ON SHEET. PROVIDE FLOAT ASSEMBLY THROUGH EXIST. NOZZLE ON TANK. MOUNT INDICATOR SCALE ON SIDE OF EXIST. WALL OR AS DETAILED.
 - 4) PROVIDE 4" CONC. SLAB TYPE 'A' INSIDE BLDG. #701 ONLY. INSIDE DIMENSIONS OF BLDG. ARE 12' x 20'.
 - 5) ELEVATIONS SHOWN FOR EXIST. GRADE ARE ASSUMED. CONTRACTOR SHALL PROVIDE DIFFERENCES IN ELEVATIONS FROM ONE POINT TO THE NEXT AS SHOWN.



RECORD DRAWING DATE FEB 11 1983	C-110
AUSTIN BROCKENBROUGH AND ASSOCIATES ARCHITECTS	ATLANTIC DIVISION
DESIGNED BY: [Signature]	CHECKED BY: [Signature]
DATE: 12/19/79	SCALE: AS SHOWN
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & DETAILS - SITE MCAS-F	
PROJECT NO. 80091	DATE: 11/11/79
SCALE: 1/4" = 1'-0"	DATE: 11/11/79
SCALE: 1/4" = 1'-0"	DATE: 11/11/79

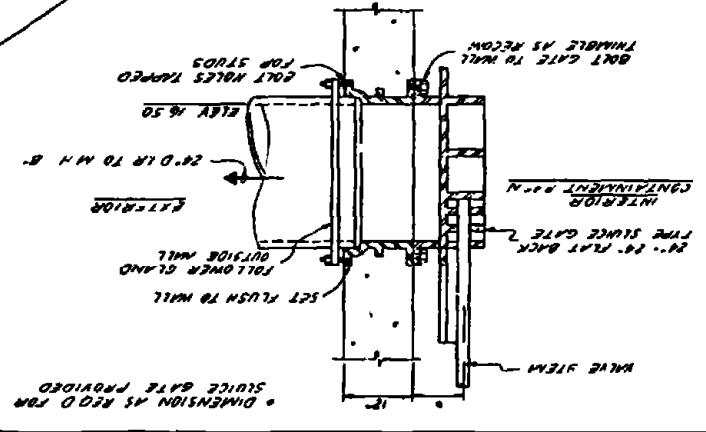
RECORDED DRAWING
 DATE: FEB 1954
 PROJECT: AIRPORT RECONSTRUCTION AND ASSOCIATED
 ATLANTIC DIVISION
 CAMP LEWIS, NORTH CAROLINA
 INFANTIL WASTE COLLECTION
 & TREATMENT FACILITIES
 SITE PLAN - SITE NCAS-8
 DRAWING NO. 4052580
 SHEET NO. 111 OF 111
 SCALE: 1" = 20'



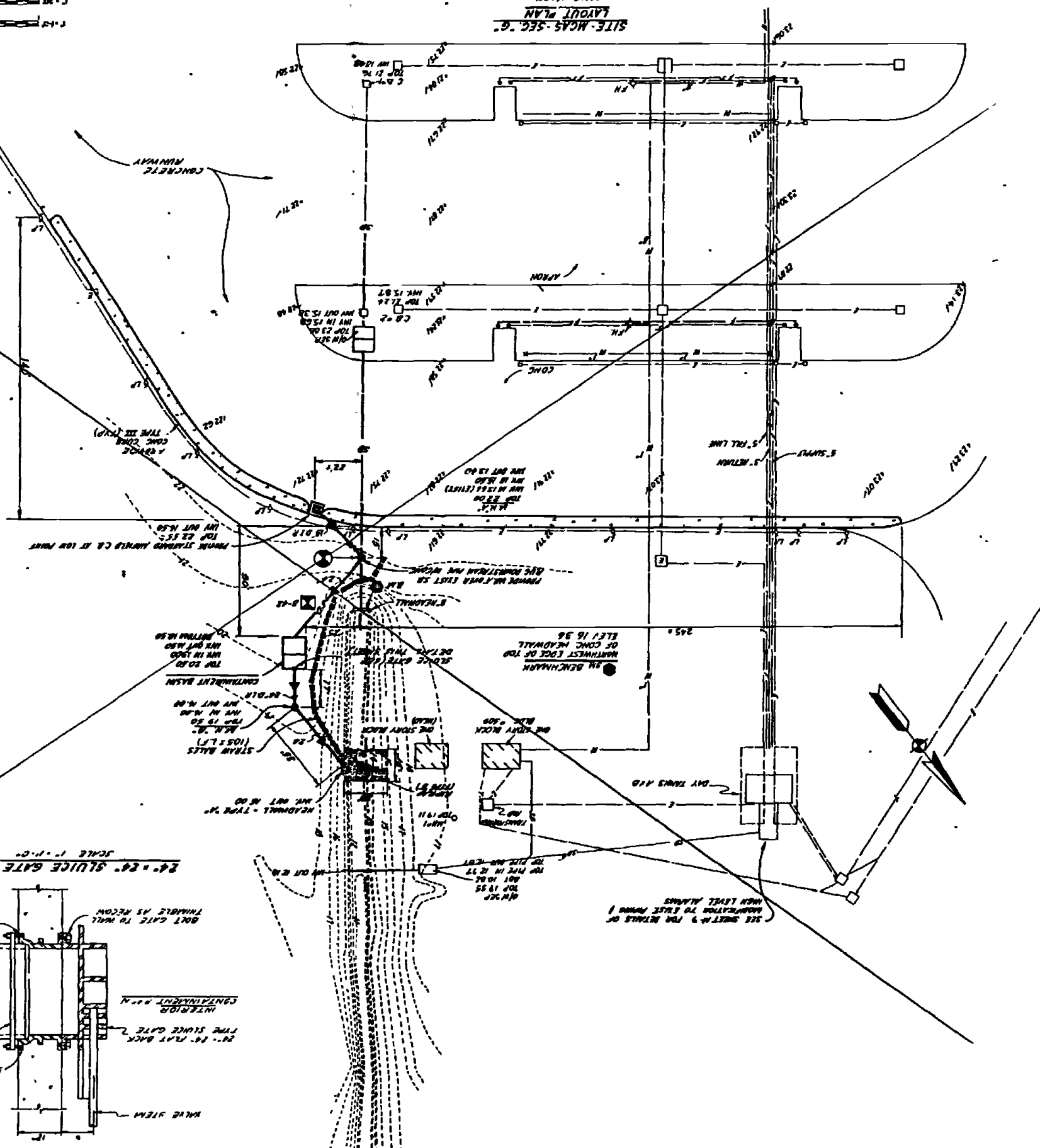
SCALE: 1" = 20'
 LAYOUT PLAN
 SITE-NCAS-SEC. 6

VOID

24" x 24" SLUICE GATE DETAIL
 SCALE: 1" = 1'-0"

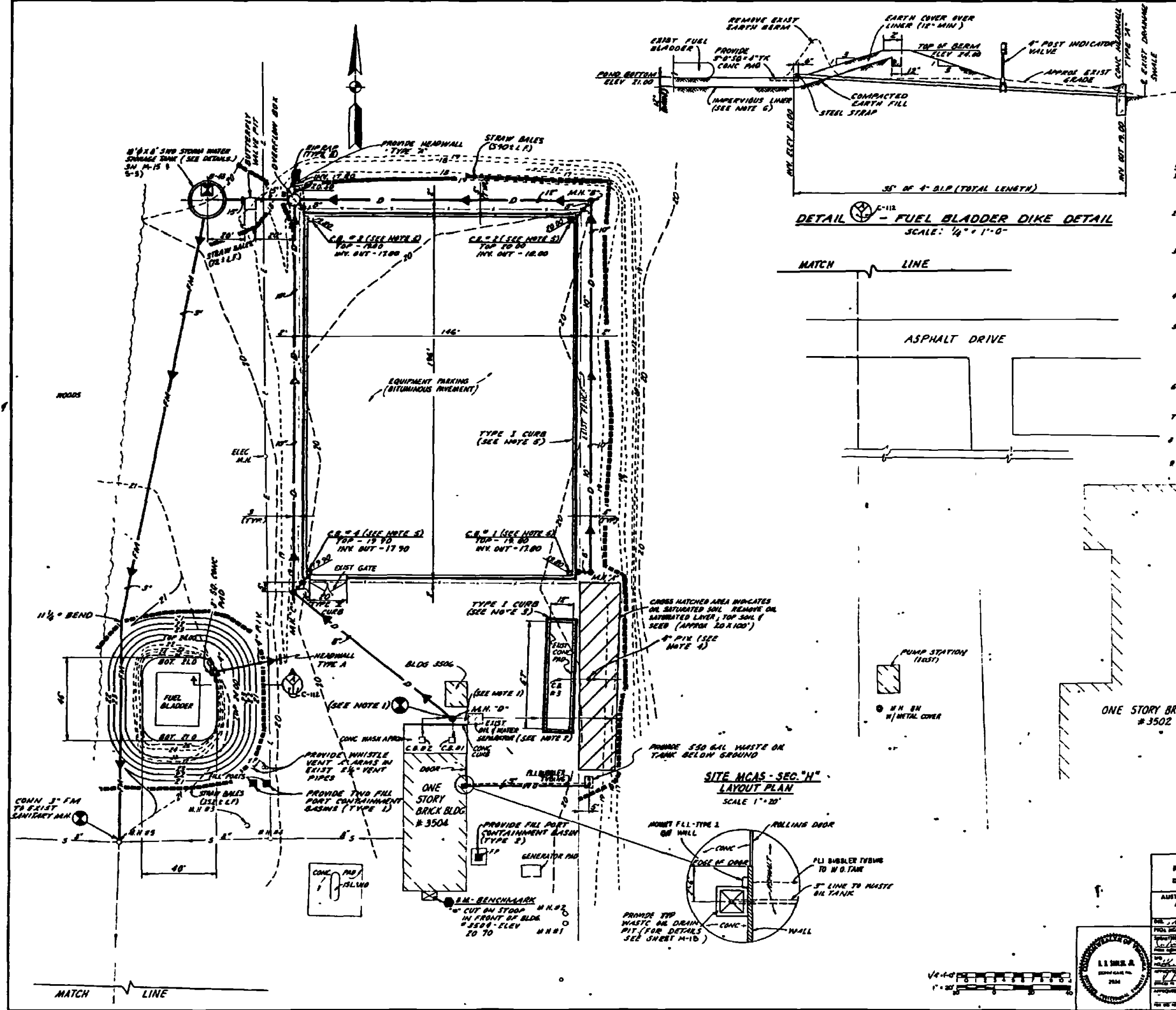


DIMENSION AS SHOWN FOR
 SLUICE GATE PROVIDED



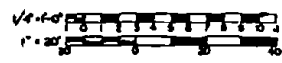
NO.	REVISION	DATE	BY

REV	DESCRIPTION	DATE	APPROVED

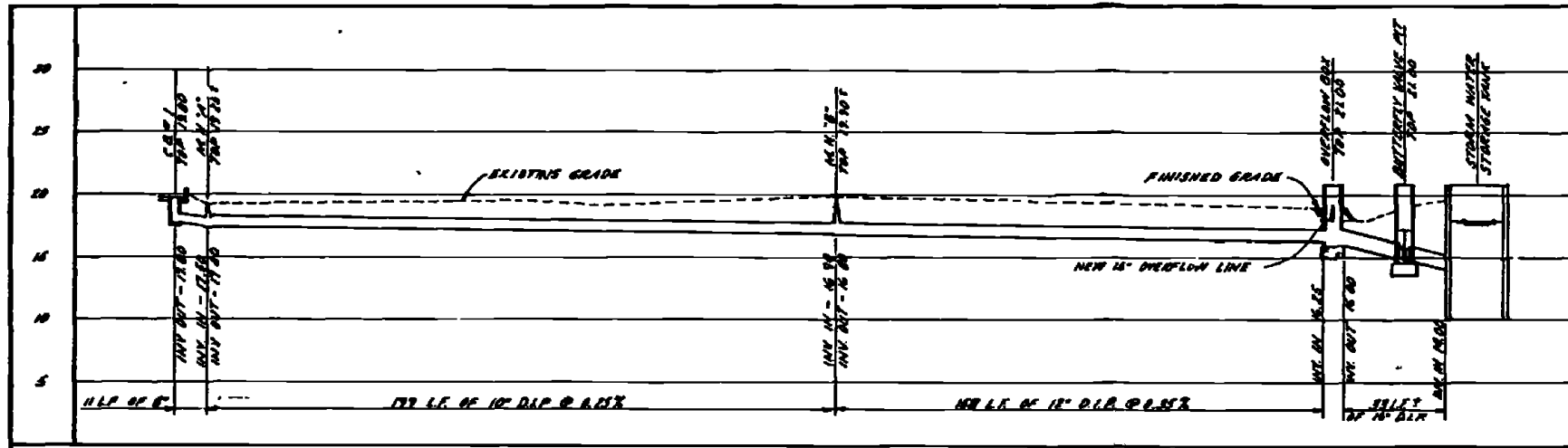


- NOTES:**
- CONTRACTOR SHALL CONSTRUCT M.H. "D" DIRECTLY OVER EXIST STORM DRAIN LINE SERVING THE EXIST OIL WATER SEPARATOR PLUG AND ABANDON REMAINING LINE TO SEPARATOR.
 - CONTRACTOR SHALL FILL IN EXIST OIL/WATER SEPARATOR WITH SAND AND REPAIR OVER AREA TO MATCH EXIST GRADE. DIMENSIONS OF STEEL SEPARATOR ARE 5'-6" x 7'-6" x 5'-6" DEEP.
 - PROVIDE TYPE I CURB COMPLETELY AROUND EXIST CONC AND USED FOR EDGE OF STORAGE. EXISTING BITUMINOUS PAVEMENT SURROUNDING THE PAD SHALL BE CUT AND REMOVED AS REQUIRED FOR CONSTRUCTION OF CURB.
 - PROVIDE 6" POST INDICATOR VALVE ON EXISTING DISCHARGE LINE FROM C.B.#3 SERVING THE CONC PAD MENTIONED ABOVE.
 - PROVIDE TYPE I CURB COMPLETELY AROUND EXIST EQUIPMENT PARKING AREA EXCEPT FOR THE 20 FT WIDE GATE AS SHOWN. PROVIDE TYPE II ROLLED CURB FOR THIS GATE AREA. THE EXISTING BITUMINOUS PAVEMENT SHALL BE CUT AND REMOVED AS REQUIRED FOR CONSTRUCTION OF THE CURB AND THE FOUR (4) CATCH BASINS.
 - AN IMPERVIOUS LINER SHALL BE PROVIDED BELOW THE EXISTING FUEL BLADDER AND FOR THE NEW BEHEMED AREA AS SHOWN.
 - FOR DETAILS OF OVERFLOW BOX AND BUTTERFLY VALVE PIT SEE SHEET M-15 9-5.
 - FOR DETAILS OF STORM WATER STORAGE TANK SEE SHEETS M-15 9-5-5.
 - FOR PROFILES OF NEW DRAIN LINE SEE SHEET C-116.

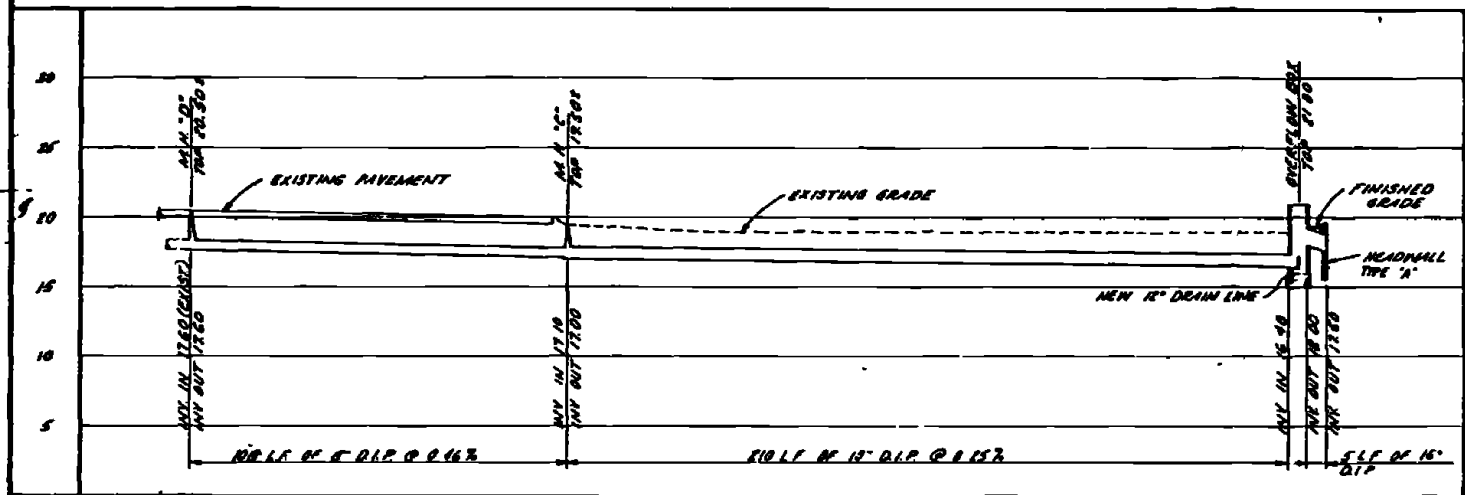
RECORD DRAWING DATE: FEB 11 1979		C-112	
ALSTON BROCKENBROUGH AND ASSOCIATES 1117 W. 10th St. Raleigh, N.C. 27601		NORTH CAROLINA ENGINEERING COMPANY ATLANTIC DIVISION 1000 W. 10th St. Raleigh, N.C. 27601	
PROJECT NO. 75-0268 SHEET NO. 112 OF 114		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & DETAILS - SITE MGAS-H CIVIL	
DATE: 11/18/78 BY: J. P. ...		DRAWING NO. 4052581	
SCALE: 1" = 20'		CONTRACT NO. 75-0268	



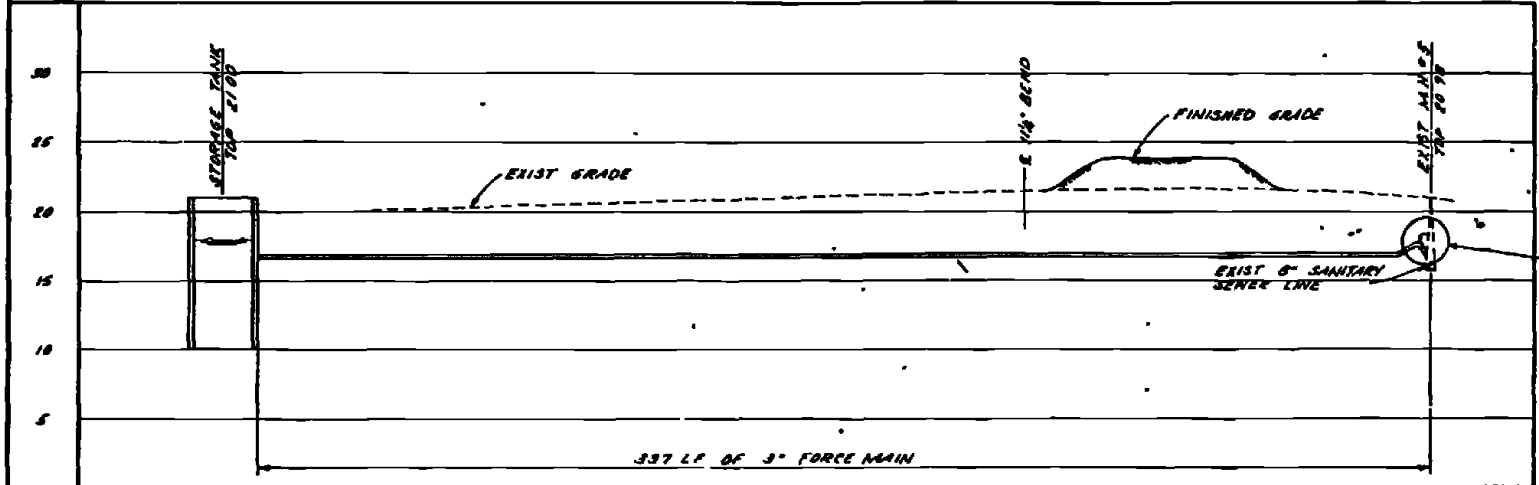
REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED



PROFILE OF DRAIN LINE FROM C.B. #1 TO STORM WATER STORAGE TANK (SITE MCAS-H)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



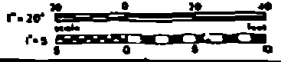
PROFILE OF DRAIN LINE FROM M.H. #D TO OVERFLOW BOX (SITE MCAS-H)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)



PROFILE 3" FORCE MAIN (SITE MCAS-H)
SCALE 1" = 5' (VERT)
1" = 20' (HORIZ)

NOTES
1. FOR PLANS SEE SHEET C-112.

FOR DETAILS OF FORCE MAIN
CONN TO EXIST M.H.
SEE SH. M-20.

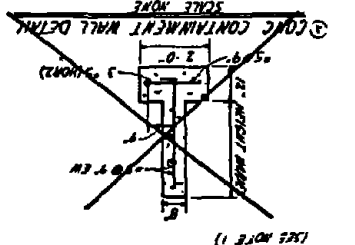
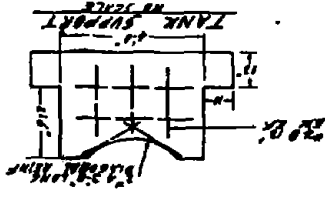
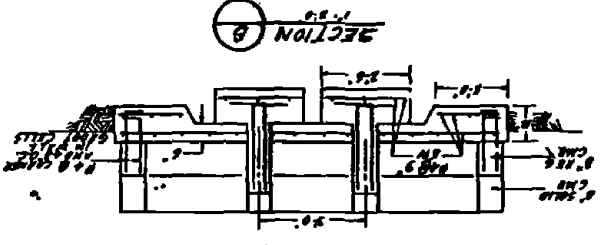
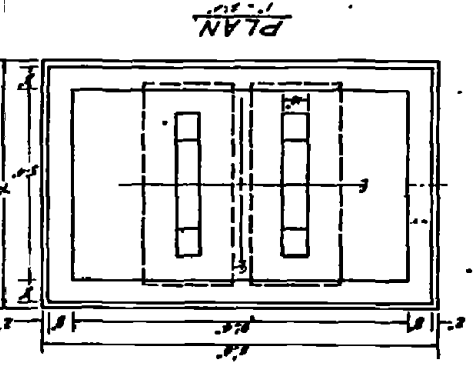


RECORD DRAWING DATE FEB 11 1963		C-113	
AUSTIN BROCKENBROUGH AND ASSOCIATES ENGINEERS ARCHITECTS 1110 S. W. 10th St. Ft. Lauderdale, Fla.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
PREPARED BY: L.S. MILLER DATE: 12/24/59 CHECKED BY: J.E. GIBSON DATE: 1/11/60		PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PROFILES - SITE MCAS-H CIVIL	
DRAWING NO. F 80091 SHEET NO. 113 OF 173		NAVY DRAWING NO. 405258E COMNAV COMPT. NO. 162370 70 2 2200	

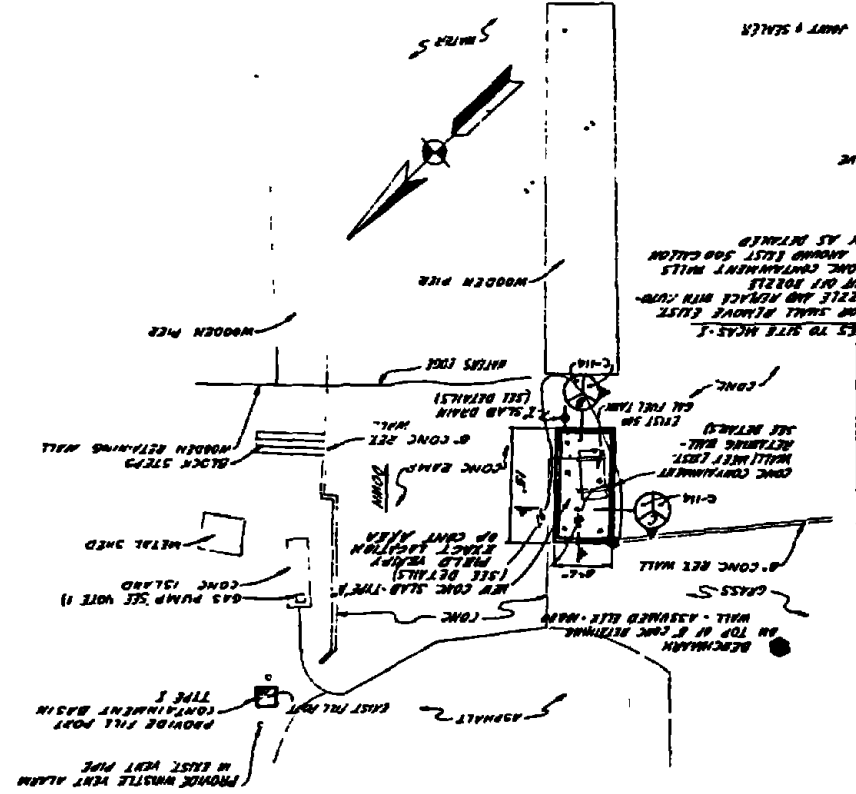
PROJECT NO. 405553	DATE 11/17/71
CONTRACT NO. 405553-10	SCALE 1/4" = 1'-0"
16001	11/17/71
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	ATLANTIC DIVISION
C-114	RECORD DRAWING



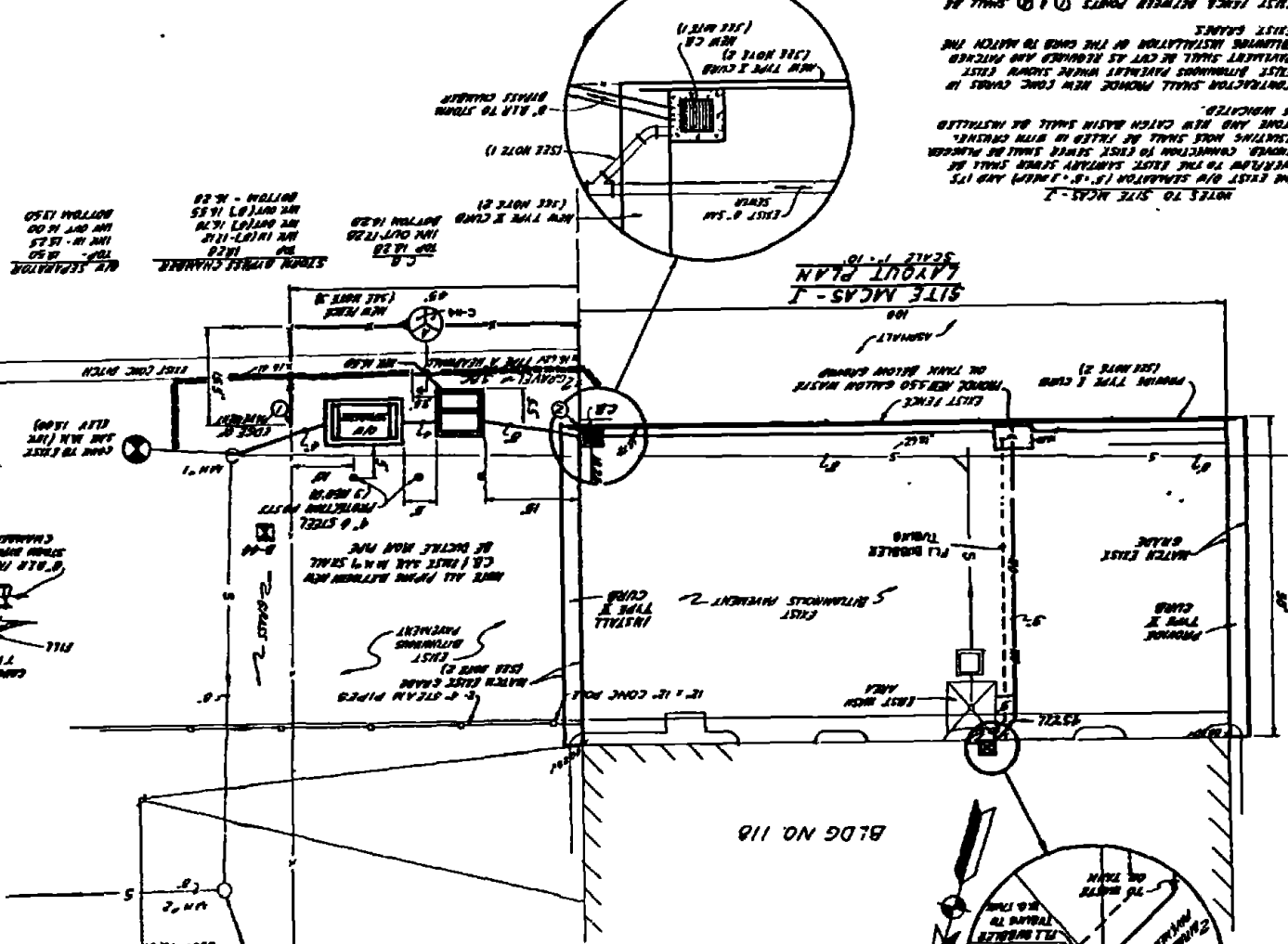
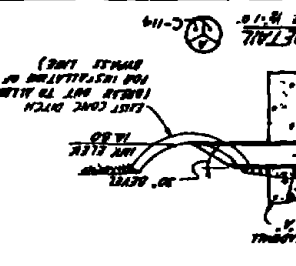
STORAGE TANK CONTAINMENT WALL DETAILS (SITE MCAS-I)
SCALE 1/4" = 1'-0"



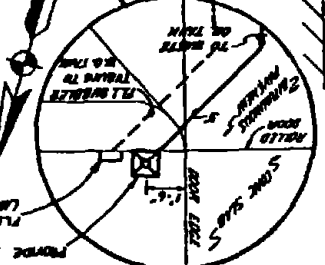
SITE MCAS-I
LAYOUT PLAN
SCALE 1/4" = 1'-0"



NOTES TO SITE MCAS-I:
1. CONTRACTOR SHALL REMOVE EXISTING CONC. WALLS AND REINFORCE WITH CURB-PAVING TYPE 1000'S.
2. PROVIDE WHISTLE VENT ALARM IN EAST VENT PIPE.
3. PROVIDE FILL PORT CONTAINMENT BASIN TYPE 1.
4. CONCRETE ISLAND GAS PUMP SEE VOTE 1).
5. METAL SHED.
6. WOODEN STEPS.
7. WOODEN RETAINING WALL.
8. CONCRETE WALL WITH RETAINING WALL.
9. CONCRETE WALL WITH RETAINING WALL.
10. CONCRETE WALL WITH RETAINING WALL.
11. CONCRETE WALL WITH RETAINING WALL.
12. CONCRETE WALL WITH RETAINING WALL.
13. CONCRETE WALL WITH RETAINING WALL.
14. CONCRETE WALL WITH RETAINING WALL.
15. CONCRETE WALL WITH RETAINING WALL.
16. CONCRETE WALL WITH RETAINING WALL.
17. CONCRETE WALL WITH RETAINING WALL.
18. CONCRETE WALL WITH RETAINING WALL.
19. CONCRETE WALL WITH RETAINING WALL.
20. CONCRETE WALL WITH RETAINING WALL.



SITE MCAS-I
LAYOUT PLAN
SCALE 1/4" = 1'-0"

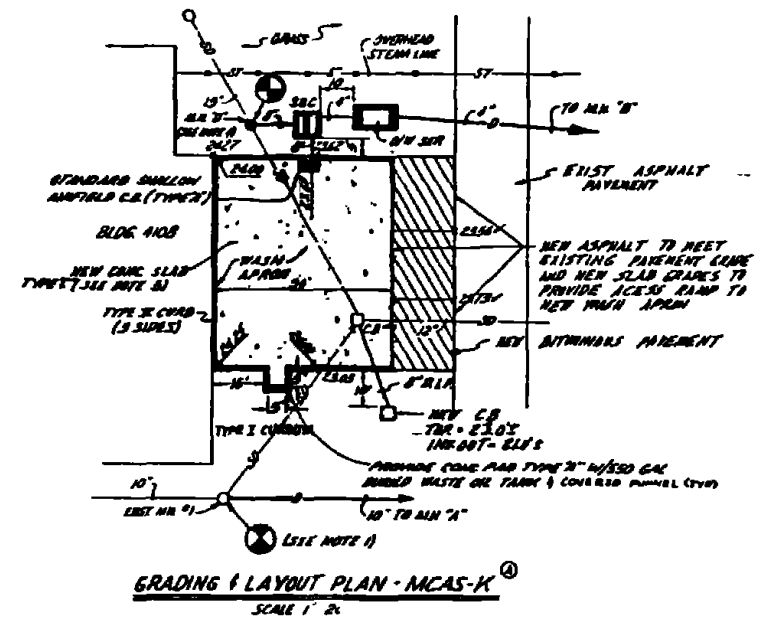
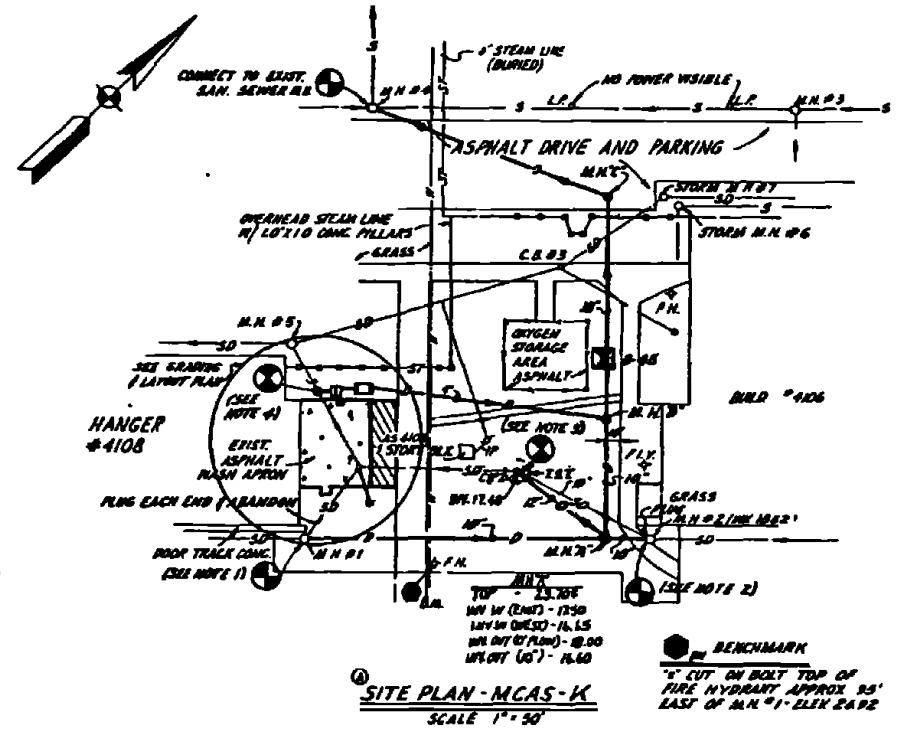


NOTES TO SITE MCAS-I:
1. THE EXISTING SIMULATOR (S-1, S-2, S-3) AND ITS REPAIRS SHALL BE LEFT IN PLACE.
2. CONTRACTOR SHALL PROVIDE NEW CONC. CURBS IN EXISTING DITCHES WHERE SHOWN ON EXISTING PLANS.
3. EXISTING PAVEMENT SHALL BE MATCHED TO NEW PAVEMENT AS REQUIRED AND MATCHED TO EXISTING PAVEMENT.
4. EXISTING CURBS SHALL BE MATCHED TO NEW CURBS.
5. EXISTING FENCES SHALL BE MATCHED TO NEW FENCES.
6. EXISTING LIGHTING SHALL BE MATCHED TO NEW LIGHTING.
7. EXISTING UTILITIES SHALL BE MATCHED TO NEW UTILITIES.
8. EXISTING STRUCTURES SHALL BE MATCHED TO NEW STRUCTURES.
9. EXISTING LANDSCAPING SHALL BE MATCHED TO NEW LANDSCAPING.
10. EXISTING SIGNAGE SHALL BE MATCHED TO NEW SIGNAGE.
11. EXISTING SECURITY SHALL BE MATCHED TO NEW SECURITY.
12. EXISTING SAFETY SHALL BE MATCHED TO NEW SAFETY.
13. EXISTING HEALTH SHALL BE MATCHED TO NEW HEALTH.
14. EXISTING ENVIRONMENT SHALL BE MATCHED TO NEW ENVIRONMENT.
15. EXISTING SOCIETY SHALL BE MATCHED TO NEW SOCIETY.
16. EXISTING ECONOMY SHALL BE MATCHED TO NEW ECONOMY.
17. EXISTING POLITICS SHALL BE MATCHED TO NEW POLITICS.
18. EXISTING CULTURE SHALL BE MATCHED TO NEW CULTURE.
19. EXISTING RELIGION SHALL BE MATCHED TO NEW RELIGION.
20. EXISTING IDEOLOGY SHALL BE MATCHED TO NEW IDEOLOGY.

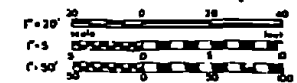
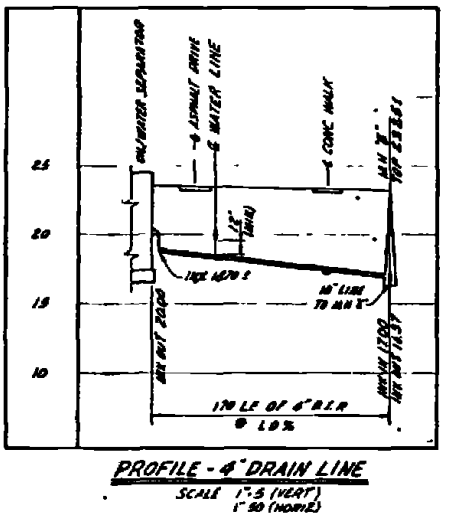
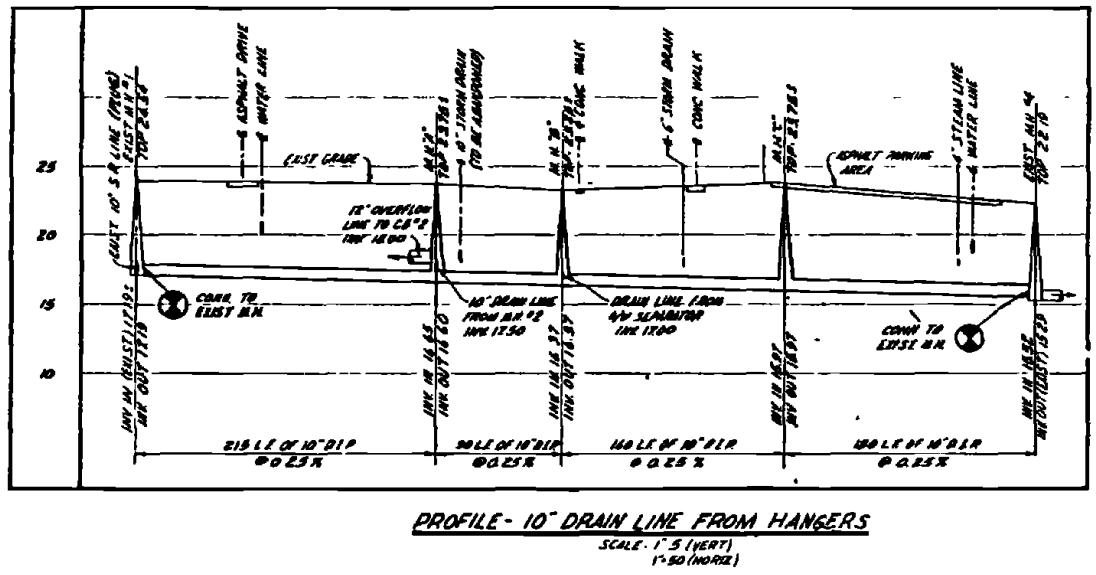
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

SYMBOL	DESCRIPTION	DATE	APPROVED
(A)	REVISED AS BUILT	1/1/82	

M.H. D'	CATCH BASIN	STORM BYPASS CHAMBER	Oil/WATER SEPARATOR
TOP - 24.00 10" IN - 18.00 10" OUT (10") - 15.87	TOP - 23.25 10" IN - 21.60 BOTTOM - 20.60	TOP - 24.10 10" IN - 21.00 10" OUT (17') - 20.58 10" OUT (8') - 20.17	TOP - 24.50 10" IN - 18.25 10" OUT - 20.00 BOTTOM - 17.50



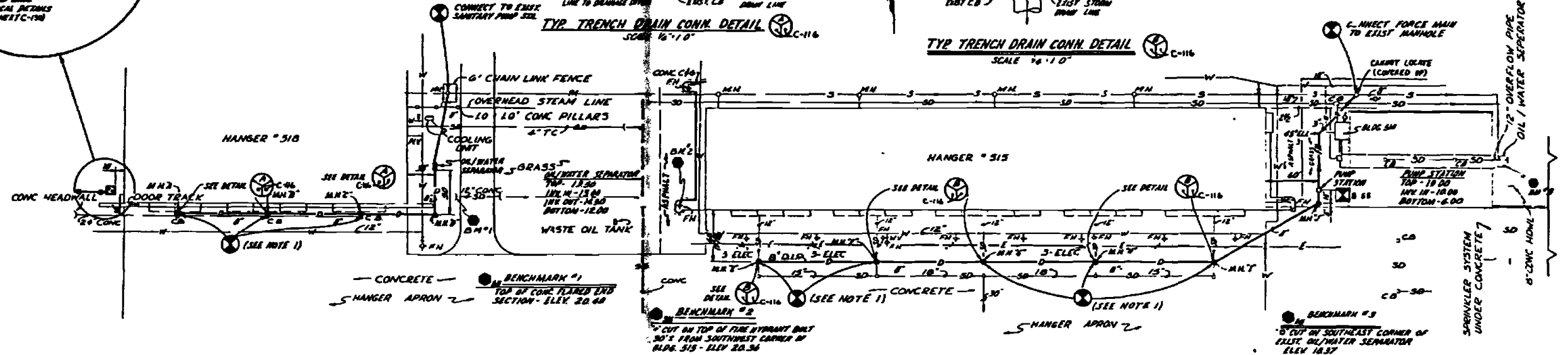
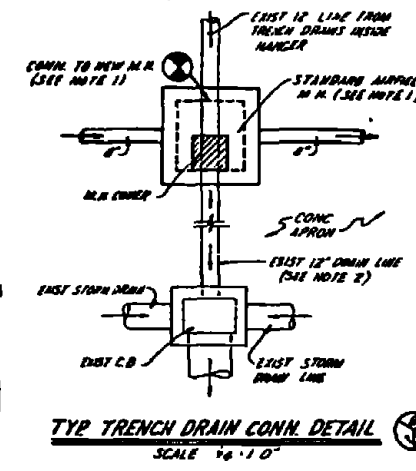
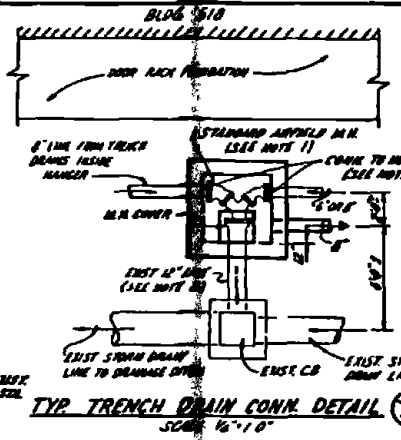
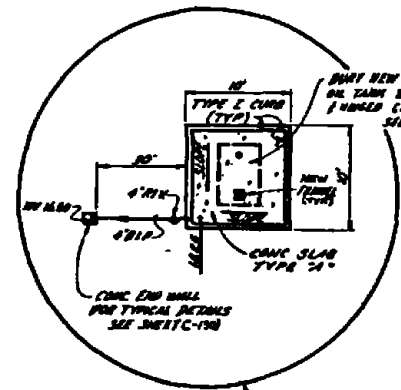
- NOTES**
1. CONNECT NEW 10" DRAIN LINE AND 4" LINE FROM NEW CONC SLAB TO EXIST M.H.#1. PLUG EXIST 10" EFFLUENT PIPE FROM M.H. ABANDON EXIST 10" LINE BETWEEN M.H.#1 AND EXIST C.B.#1. PLUG EXIST INFLUENT LINE INTO C.B.#1
 2. CONNECT NEW 10" DRAIN LINE TO EXIST M.H.#2. PLUG EXIST 10" EFFLUENT PIPE FROM M.H.#2. ABANDON 10" LINE BETWEEN M.H.#2 AND EXIST C.B.#2. PLUG EXIST INFLUENT LINE INTO C.B.#2
 3. A NEW 12" OVERFLOW LINE FROM M.H.#1 TO C.B.#2 SHALL BE PROVIDED.
 4. CONSTRUCT M.H.#6 DIRECTLY OVER EXIST 15" STORM DRAIN LINE. REMOVE EXIST LINE RUNNING THRU NEW M.H. FOLLOWING COMPLETION OF CONSTRUCTION. CONNECT NEW 8" BYPASS LINE FROM STORM BYPASS CHAMBER TO M.H.#6
 5. CONTRACTOR SHALL REMOVE EXIST BITUMINOUS PAVEMENT (3" x 6") TO ALLOW FOR CONSTRUCTION OF NEW CONC SLAB TYPE 'C' FOR WASH APRON.



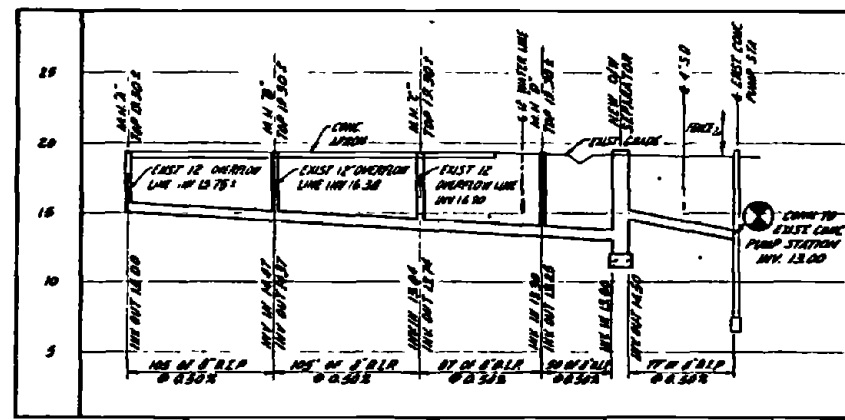
RECORD DRAWING DATE FEB 11 1982	C-115
AUSTIN BROCKENBROUGH AND ASSOCIATES CORPORATION 1100 W. 10TH ST. AUSTIN, TEXAS 78701	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION MARINE STATION CAMP LEJEUNE, NORTH CAROLINA
PROJECT: MCAS-K DATE: 12/12/79 BY: J. D. [Signature] CHECKED BY: [Signature]	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE 1, 2 & 3 PROFILES - SITE MCAS-K CIVIL
APPROVED BY: [Signature] DATE: 1/1/82	NAVY DRAWING NO. 4052594
SCALE: 1" = 5' (VERT) 1" = 50' (HORIZ)	CONTRACT NO. N62430 18 B 0226 SHEET NO. 7 OF 8 DATE: 1/15/82

DATE	DESCRIPTION	DATE	APPROVED

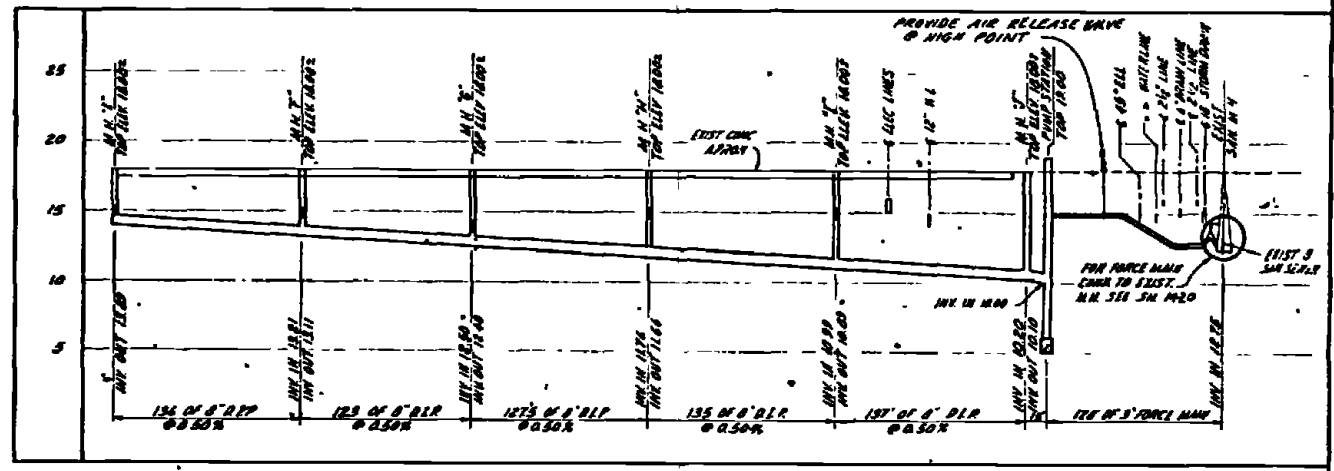
- NOTES**
1. CONTRACTOR SHALL PROVIDE NEW AIRFIELD TYPE MANHOLES DIRECTLY OVER EXIST TRENCH DRAIN LINES AS SHOWN. THE EXIST DRAIN LINES SHALL BE CONNECTED TO THE NEW MANHOLE REMOVE EXIST PIPING AND FITTINGS INSIDE NEW M.H.
 2. THE EXISTING 12" LINE FROM THE NEW MANHOLE TO THE EXISTING CATCH BASIN SHALL REMAIN AS OVERFLOW LINE.
 3. FOR INVERT REPLACEMENT ALONG CONC. HANGER APRON IN FRONT OF BLDG. 515 SEE DETAIL 30.C-129



SITE - MCAS - SEC. L LAYOUT PLAN
SCALE: 1" = 50'

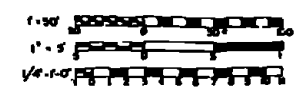


PROFILE - 8" DRAIN LINE FOR BLDG 518
SCALE 1" = 5 (VERT)
1" = 50 (HORIZ)

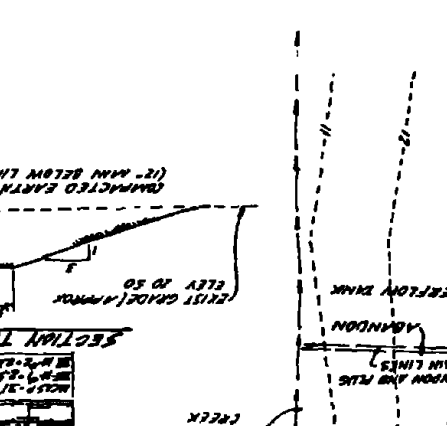
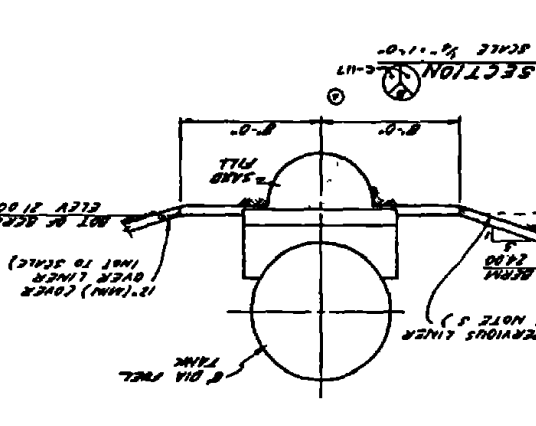
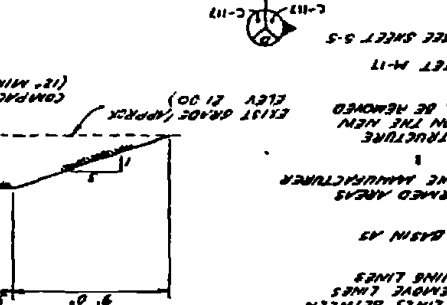
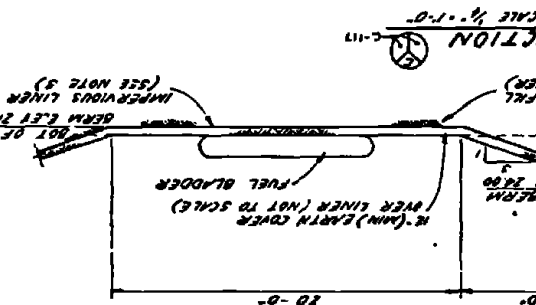
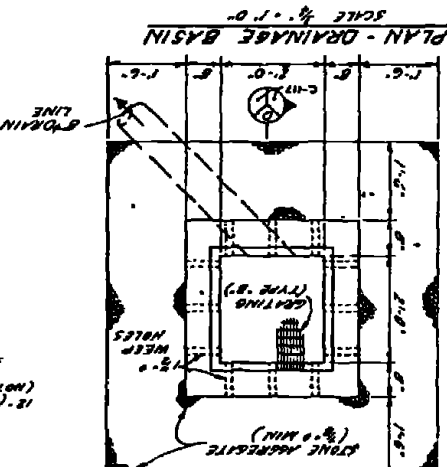
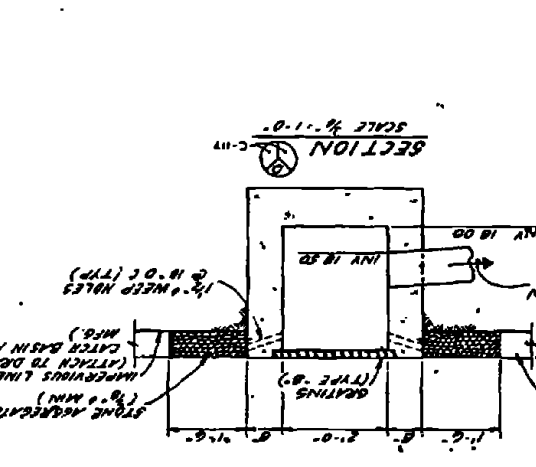


PROFILE - 8" DRAIN LINE FOR BLDG 515
SCALE 1" = 5 (VERT)
1" = 50 (HORIZ)

RECORD DRAWING DATE: FEB 1973		C-116	
AUSTIN BROCKBROUGH AND ASSOCIATES INCORPORATED 1217 1/2 S. W. 12th St. Fort Worth, Texas 76104		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA HERRING, VIRGINIA	
DESIGNED BY: JWC, CHS, JES DRAWN BY: GWA, OK, BWA CHECKED BY: JWC, CHS, JES DATE: 12/2/72		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES SITE PLAN & PROFILES - SITE MCAS-L CIVIL	
PROJECT NO. 111111 SHEET NO. 111111		DRAWING NO. 4052585	
SCALE: 1" = 5 (VERT) 1" = 50 (HORIZ)		DATE: FEB 1973	



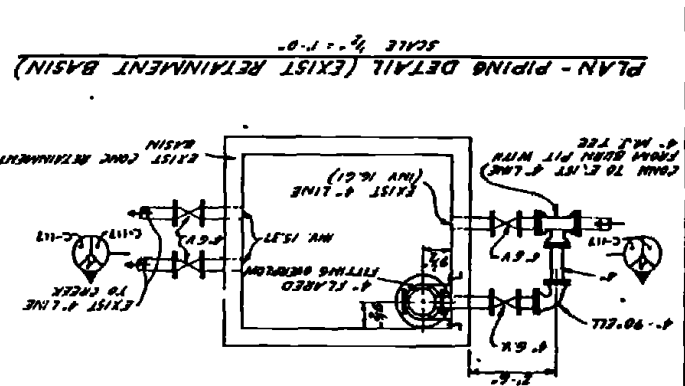
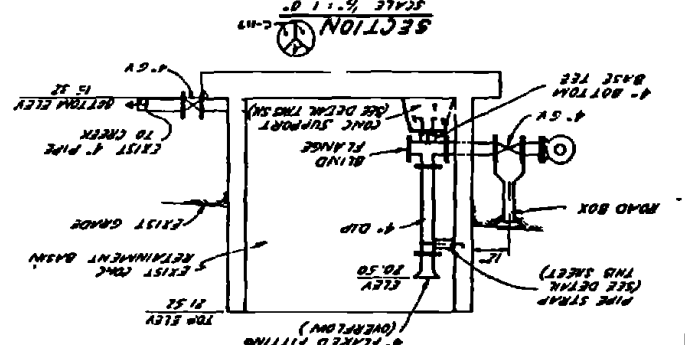
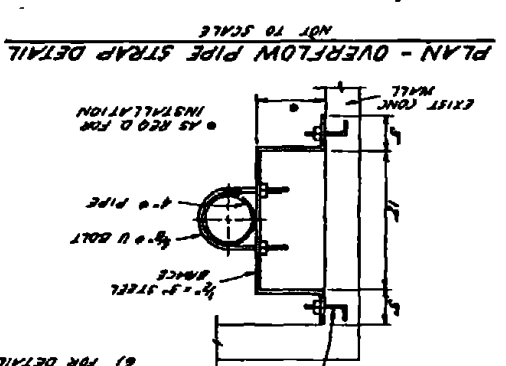
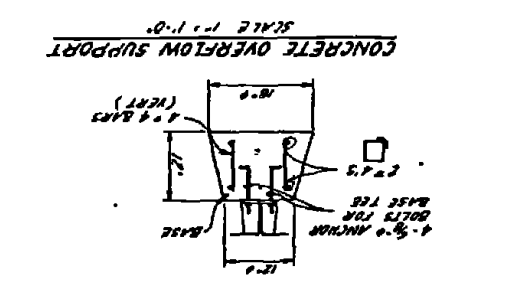
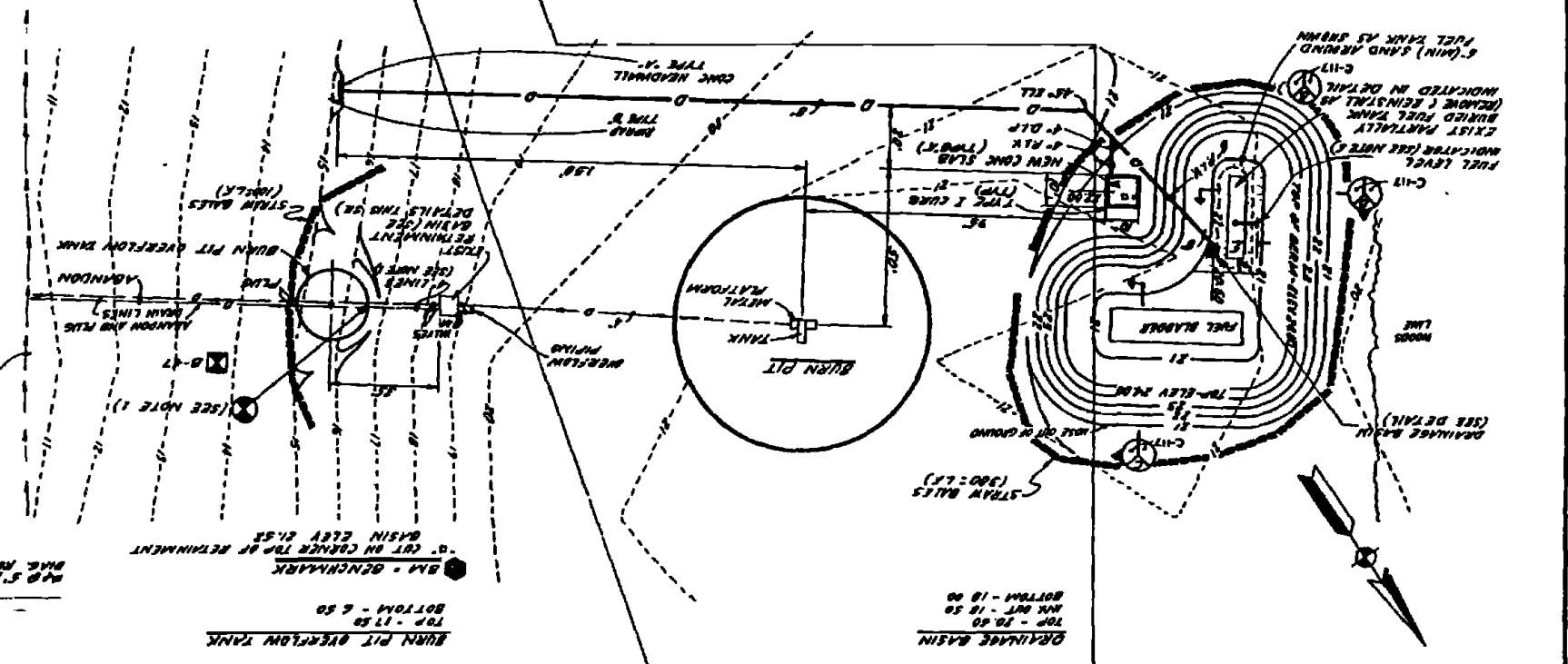
REC'D DRAWING
 DATE FEB 11 1964
 ATLANTIC DIVISION
 INDUSTRIAL WASTE COLLECTION
 & TREATMENT FACILITIES
 SITE PLAN & DETAILS - SITE NCAS-4
 4052550
 80091



ELEVATION-TANK SUPPORT
 8" DIA TANK

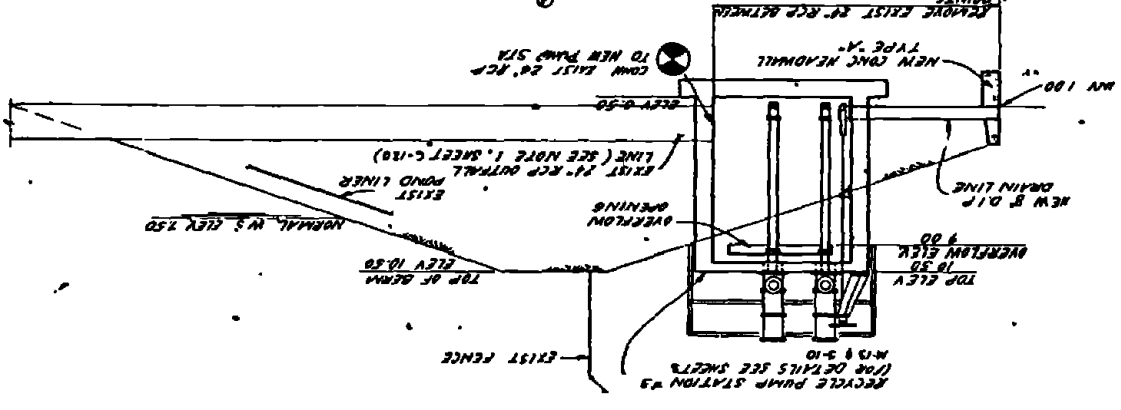
NO. 1	12"	8" DIA TANK
NO. 2	12"	8" DIA TANK
NO. 3	12"	8" DIA TANK
NO. 4	12"	8" DIA TANK
NO. 5	12"	8" DIA TANK
NO. 6	12"	8" DIA TANK
NO. 7	12"	8" DIA TANK
NO. 8	12"	8" DIA TANK
NO. 9	12"	8" DIA TANK
NO. 10	12"	8" DIA TANK

NOTES
 1) PROVIDE BURN PIT OVERFLOW TANK DIRECTLY OVER EXIST 4" LINE BETWEEN RETAINMENT BASIN AND THE CREEK WHERE SHOWN, REMOVE LINES LOCATED INSIDE THE TANK AND PUG AND ABANDON REMAINING LINES BETWEEN TANK AND CREEK.
 2) CONNECT NEW 4" OVERFLOW LINE TO EXIST RETAINMENT BASIN AS SHOWN IN THE DETAILS.
 3) AN IMPERVIOUS LINER SHALL BE PROVIDED FOR THE BURNED AREAS AS SHOWN. INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER. SEE SHEET C-11 FOR TYPICAL DETAILS.
 4) THE EXIST PORTABLE PUMP HOUSED IN THE WOODEN BOX STRUCTURE ADJACENT TO THE FUEL BLADDER SHALL BE RELOCATED ON THE NEW CONG. SLAB WHERE SHOWN. THE WOODEN STRUCTURE SHALL BE REMOVED.
 5) FOR DETAILS OF FUEL LEVEL INDICATOR TO BE PROVIDED IN THE EXIST FUEL TANK, SEE SHEET M-11.
 6) FOR DETAILS OF BURN PIT OVERFLOW TANK SEE SHEET S-5.

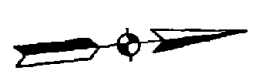
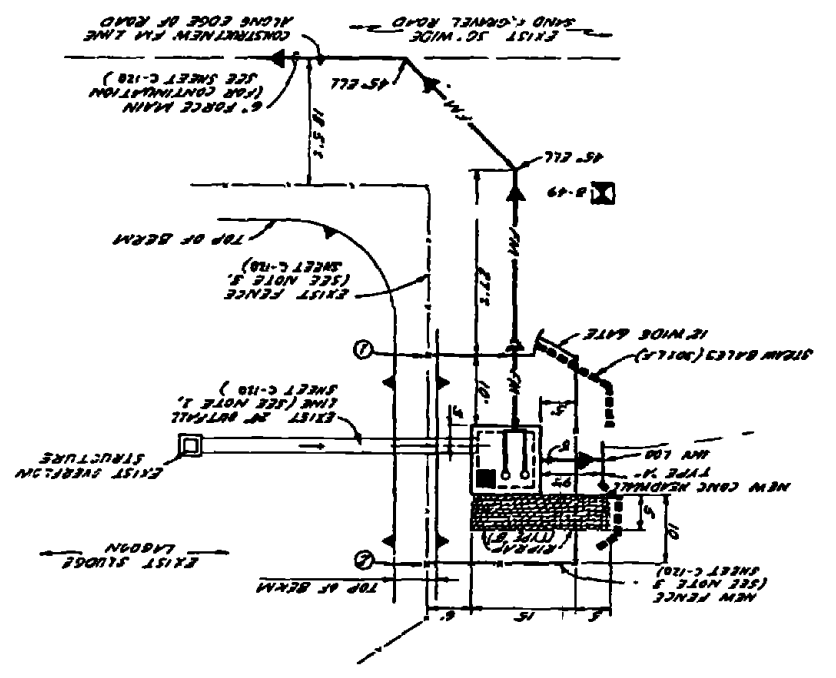


152597
 DRAWING NO. 152597
 SCALE 1/2" = 1'-0"
 RECORD DRAWING
 DATE FEB 1972
 AND ASSOCIATES
 ATLANTIC DIVISION
 INDUSTRIAL WASTE COLLECTION
 TREATMENT FACILITIES
 SITES - MCAS-2 & MCAS-4
 160091
 0052587
 11/15/71

TYPICAL SECTION - SLUDGE LAGOON AND PUMP STATION DETAIL
 SCALE 1/2" = 1'-0"
 (SITE MCAS-4)

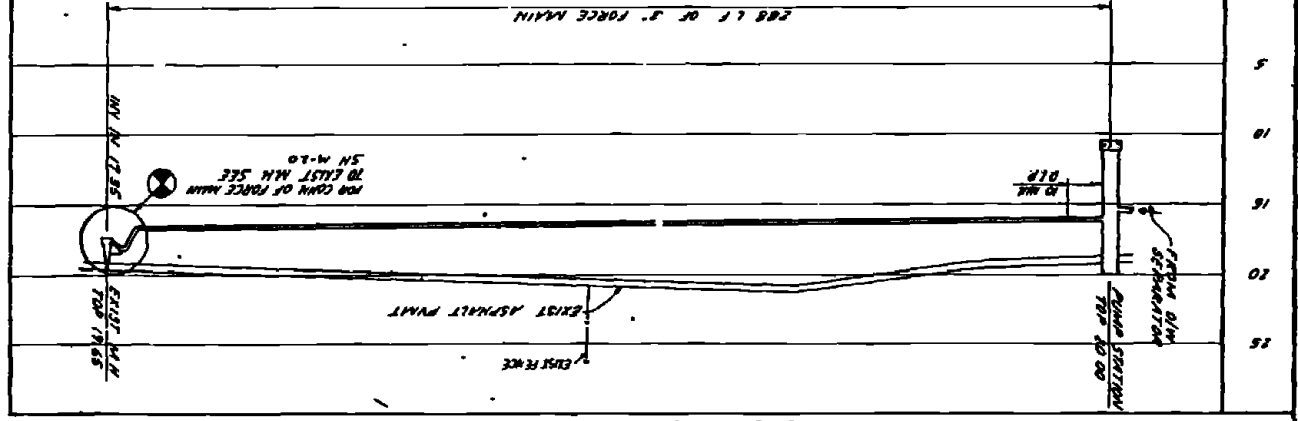


LAYOUT PLAN - (SITE MCAS-4)
 SCALE 1" = 10'

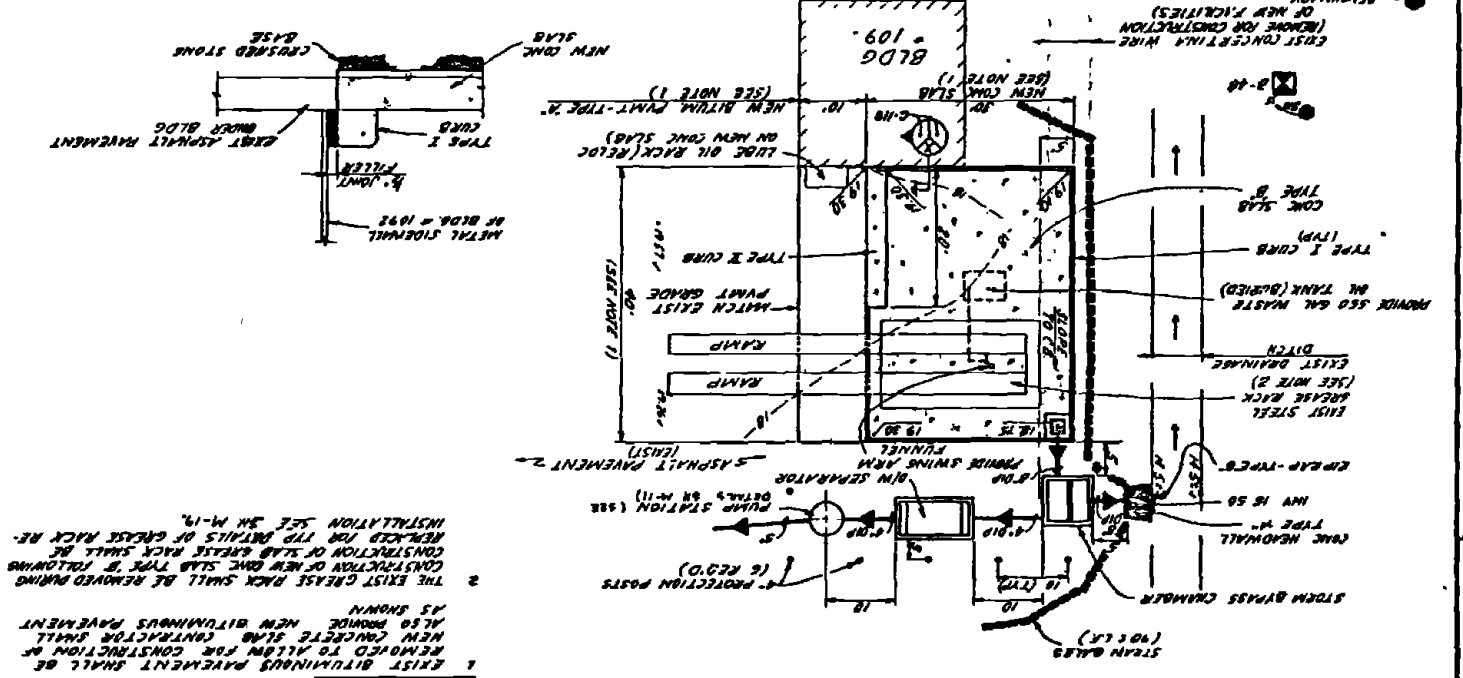


REVISION 11 SHEET	DATE	BY

PROFILE FORCE MAIN (SITE MCAS-2)
 SCALE 1" = 5' (VERT)
 SCALE 1" = 20' (HORIZ)

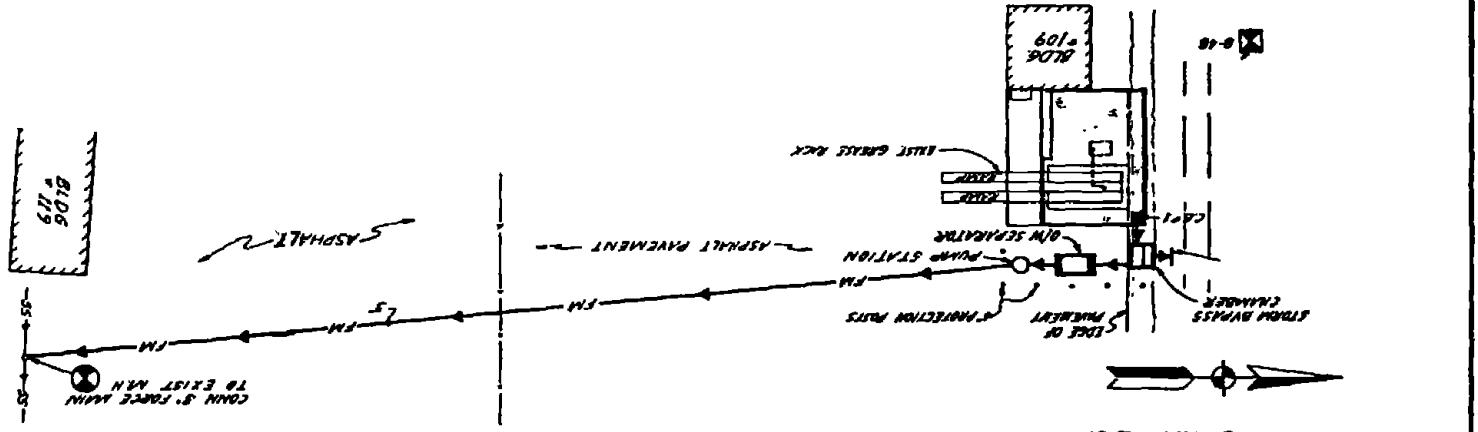


LAYOUT & GRADING PLAN - (SITE MCAS-2)
 SCALE 1" = 10'



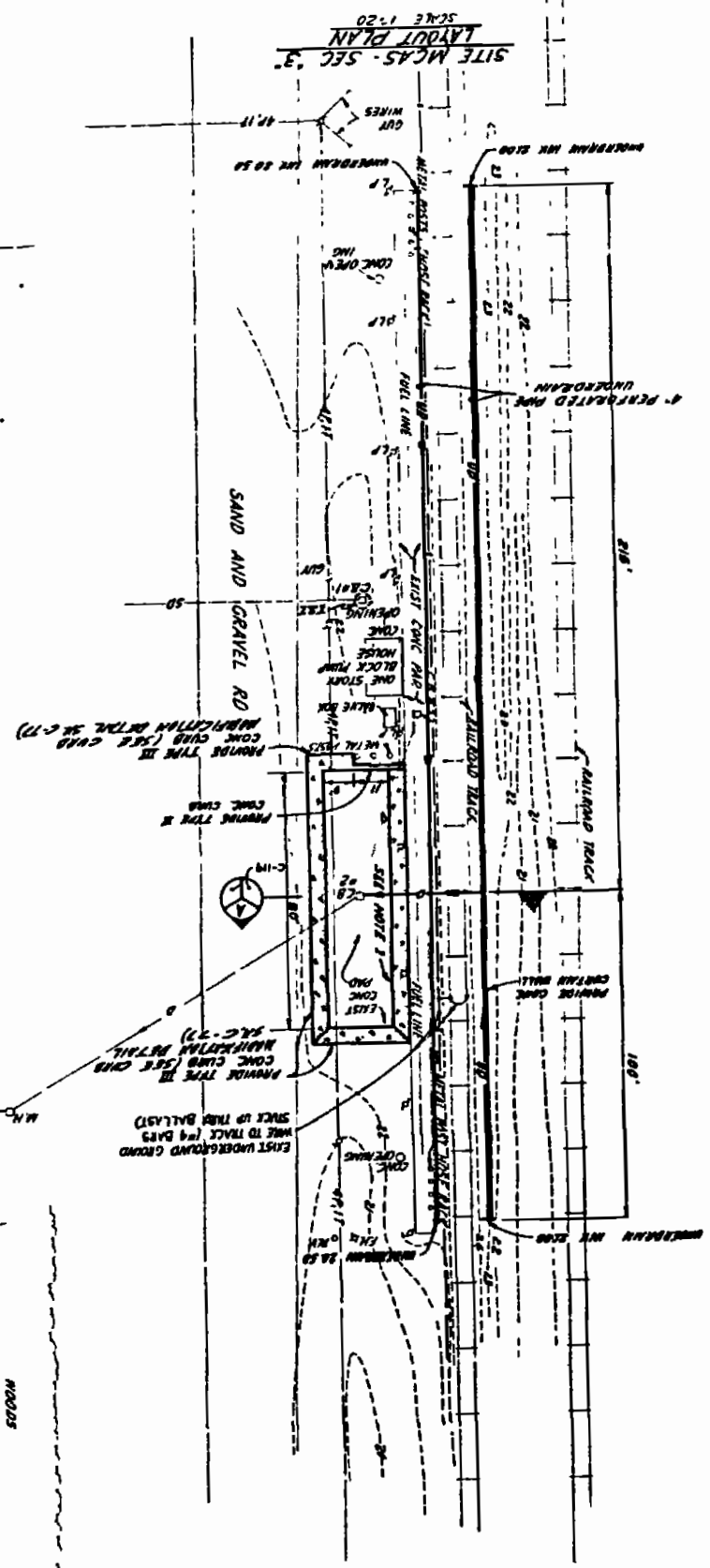
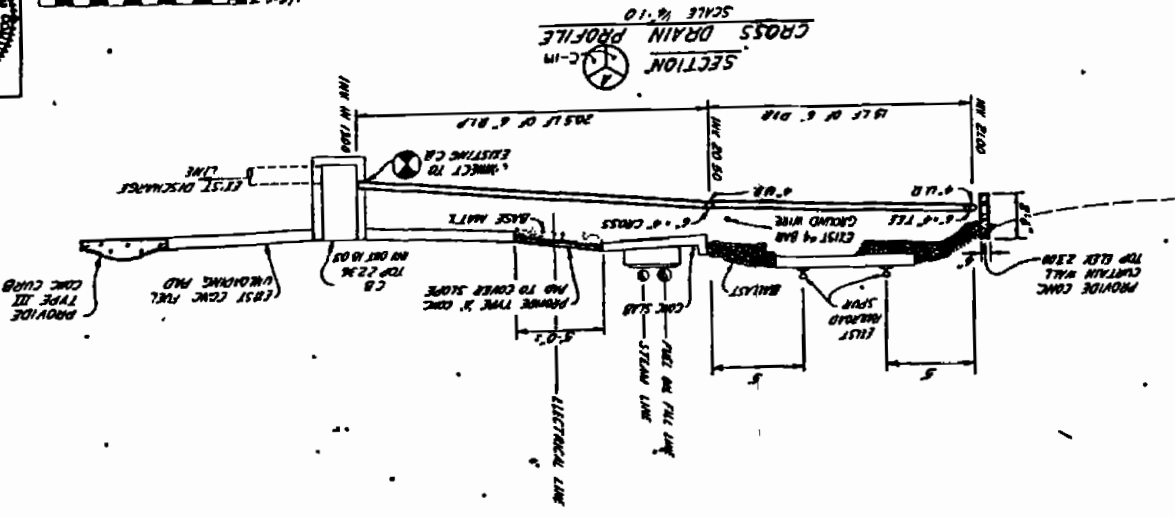
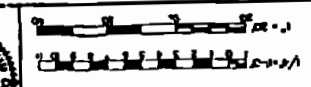
NOTES (MCAS-2):
 1. EXIST BITUMINOUS PAVEMENT SHALL BE REMOVED TO ALLOW FOR CONSTRUCTION OF NEW CONC SLAB TYPE 'B' FOLLOWING CONSTRUCTION OF NEW CONC SLAB SHALL BE REMOVED FOR TYPICAL DETAILS OF GREASE TRAP RE-INSTALLATION SEE SH-M-19.
 2. THE EXIST GREASE TRAP SHALL BE REMOVED DURING CONSTRUCTION OF NEW CONC SLAB TYPE 'B'. FOLLOWING CONSTRUCTION OF NEW CONC SLAB SHALL BE REMOVED FOR TYPICAL DETAILS OF GREASE TRAP RE-INSTALLATION SEE SH-M-19.
 ALSO PROVIDE NEW BITUMINOUS PAVEMENT AS SHOWN.

SITE PLAN - (SITE MCAS-2)
 SCALE 1" = 20'



STORM BYPASS CHAMBER	TOP - 19.50
	INV IN - 15.50
	INV OUT (A) - 15.08
	INV OUT (B) - 15.25
	INV OUT (C) - 15.25
	BOTTOM - 15.67
PUMP STATION	TOP - 20.00
	INV IN - 15.25
	INV IN - 15.25
	BOTTOM - 15.25

BB52504
 RECORD DRAWING
 DATE: 12/11/54
 PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
 DIVISION: ATLANTIC DIVISION
 SHEET: C-119

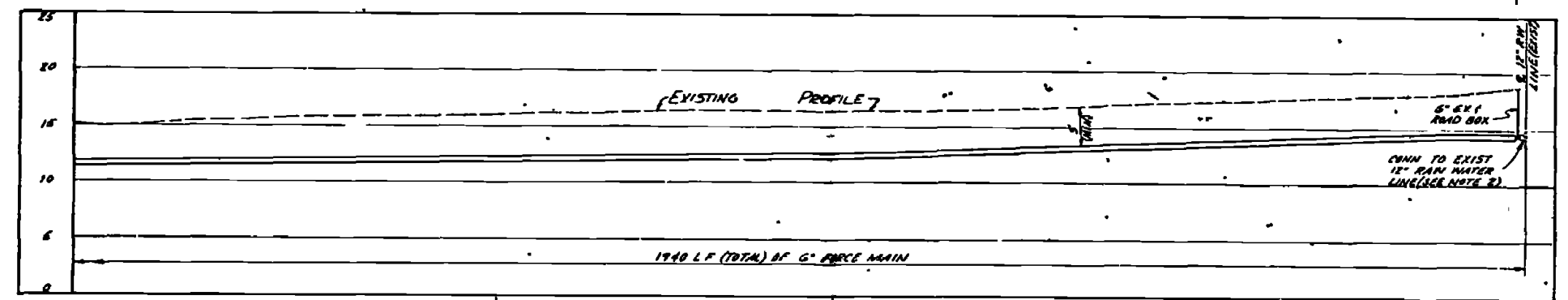
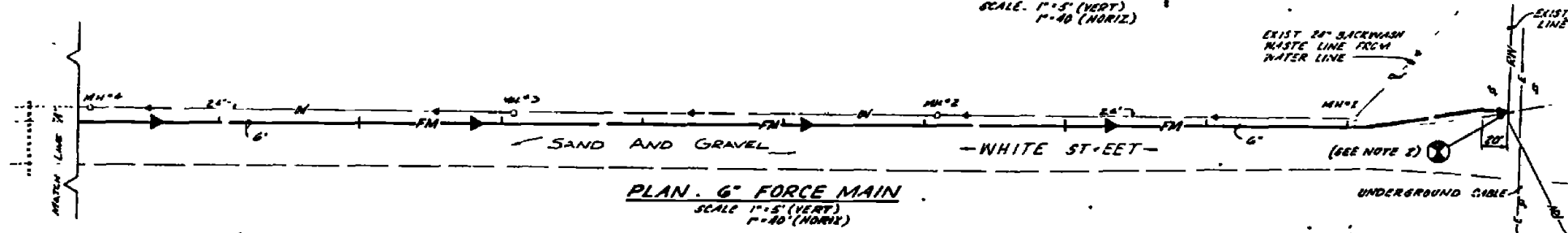
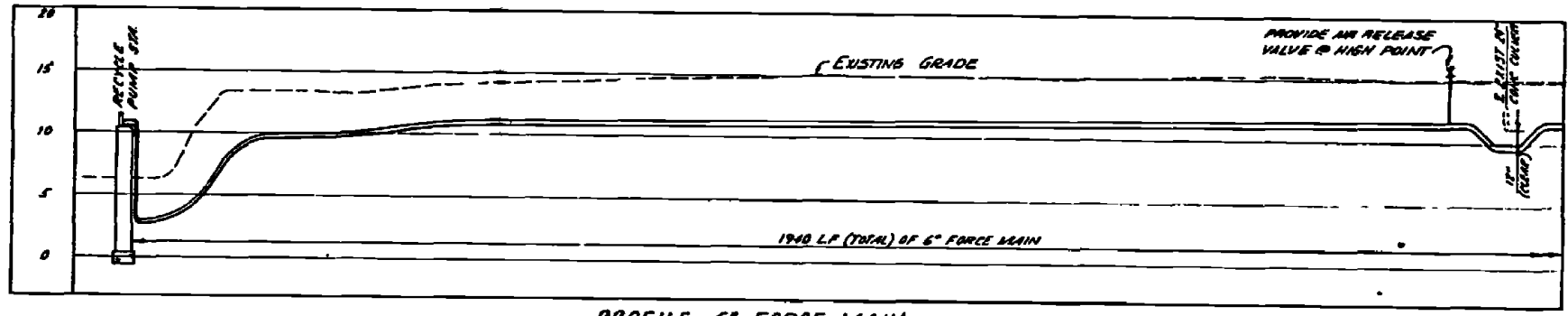
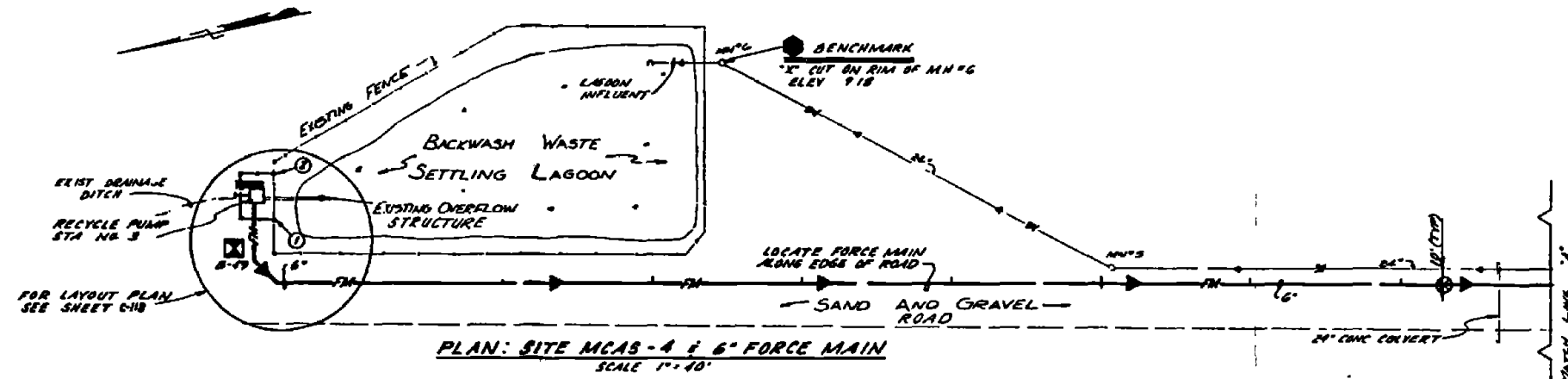


NOTES

- CONTRACTOR SHALL PROVIDE TYPE 3 CONC PAD COBB OVER THE SLOPE BETWEEN THE EXISTING CONC UNLOADING PAD AND THE CONC PAD ADJACENT TO THE R.R. TRACK.
- CONTRACTOR SHALL PROVIDE UNDERDRAIN ALONG EACH SIDE OF ROADWAY AS SHOWN THE GRADES BETWEEN THE INVERTS SHOWN SHALL BE CONSTANT.
- SEE MCAS A FOR UNDERDRAIN BEARING DETAIL SHEET C-119.
- CONTRACTOR SHALL PROVIDE ADJUSTERS NECESSARY FOR CONNECTIONS BETWEEN UNDERDRAIN AND O.L. PIPE.

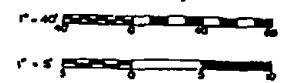
DATE	APPROVED

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

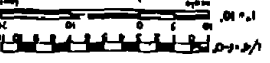


- NOTES**
- CONTRACTOR SHALL REMOVE THE EXIST 24" RCP OUTFALL LINE FROM THE PUMP STATION INFLUENT TO THE DISCHARGE TO THE STREAM. THE EXISTING FLARED END SECTION ON THE DISCHARGE SHALL ALSO BE REMOVED. THE EXISTING 24" RCP OUTFALL LINE FROM THE LAGOON OVERFLOW STRUCTURE SHALL REMAIN IN OPERATION TO FEED THE PUMP STATION.
 - CONTRACTOR SHALL CONNECT THE NEW 6" FORCE MAIN TO THE EXIST 12" RAIN WATER LINE LOCATED NEAR THE INTERSECTION OF WHITE STREET AND CURTIS ROAD. CONNECTION SHALL BE MADE WITH 1 1/2" TAPPING SLEEVE AND VALVE. VERIFY SIZE OF EXIST RAIN WATER LINE PRIOR TO CONNECTION.
 - REMOVE EXIST FENCE LOCATED BETWEEN POINTS ① AND ②. PROVIDE NEW FENCE AS SHOWN.
 - FOR DETAILS OF RECYCLE PUMP STATION, SEE SHEETS M 13 & 9-10.

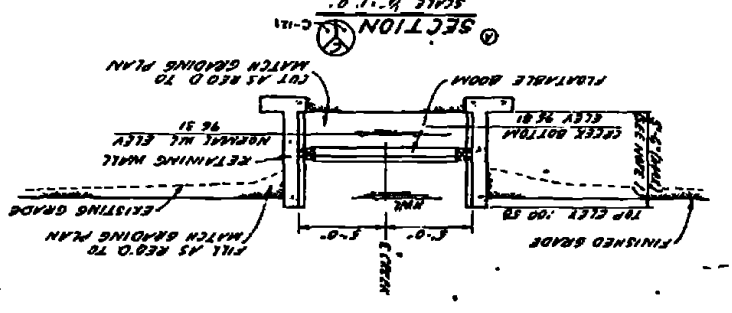
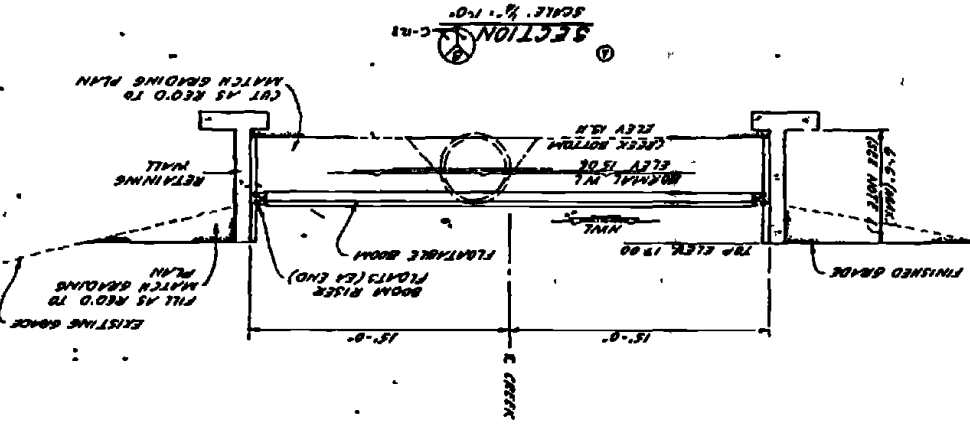
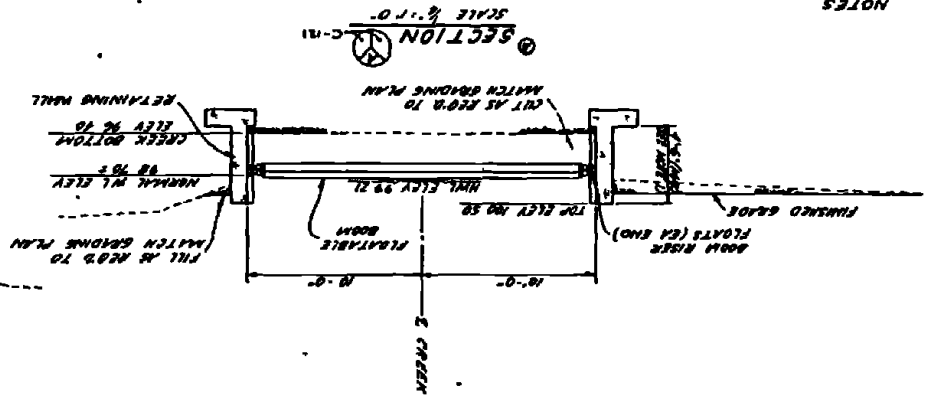
RECORD DRAWING DATE FEB 11 1970	C-120
AUSTIN BROCKENBROUGH AND ASSOCIATES CONSULTING ENGINEERS CORPORATION 2000 W. 10TH ST. DURHAM, N.C. 27704	DEPARTMENT OF THE ARMY MAYNARD CIVIL ENGINEERING COMMAND ATLANTIC DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
DESIGNER: G.W.S. CHECKER: G.W.S. DATE: 12/12/69	INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES PLAN & PROFILE - SITE MCAS-4 CIVIL
PROJECT NO. 4052599	4052599
SCALE AS SHOWN	15259



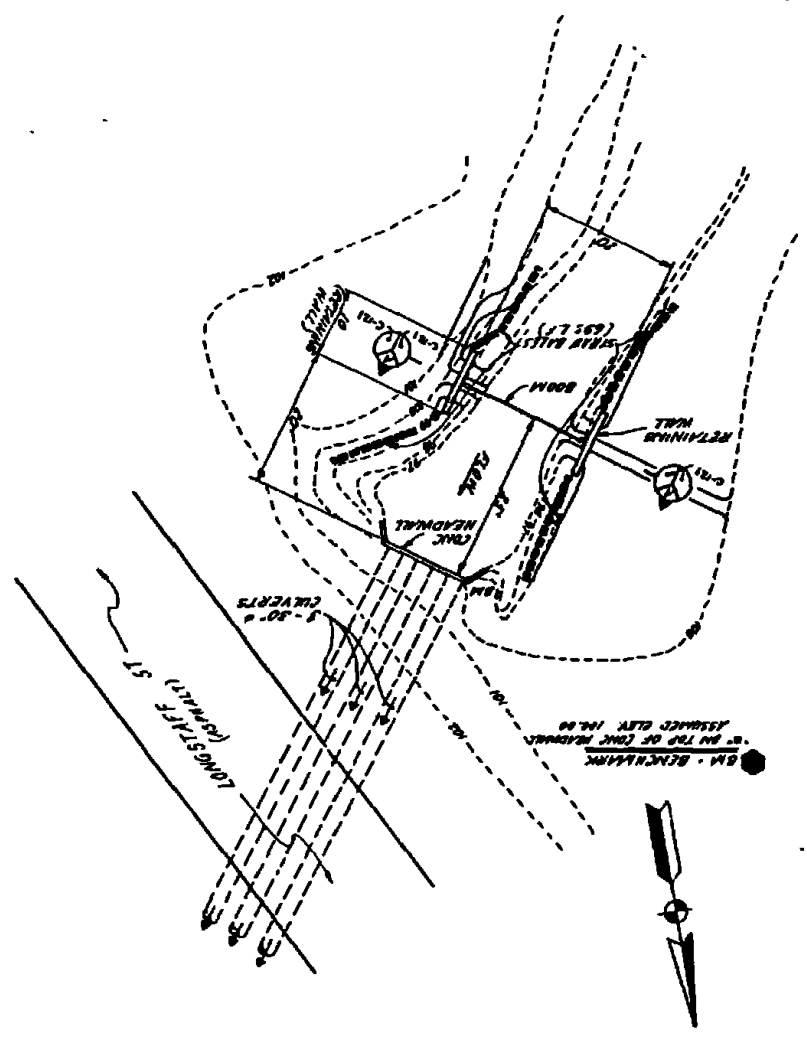
0655
 4052540
 80091
 ATLANTIC DIVISION
 INDUSTRIAL WASTE COLLECTION
 TREATMENT FACILITIES
 SKIMMER DAMS #1, 2 & 3
 DATE REVISION
 C-121



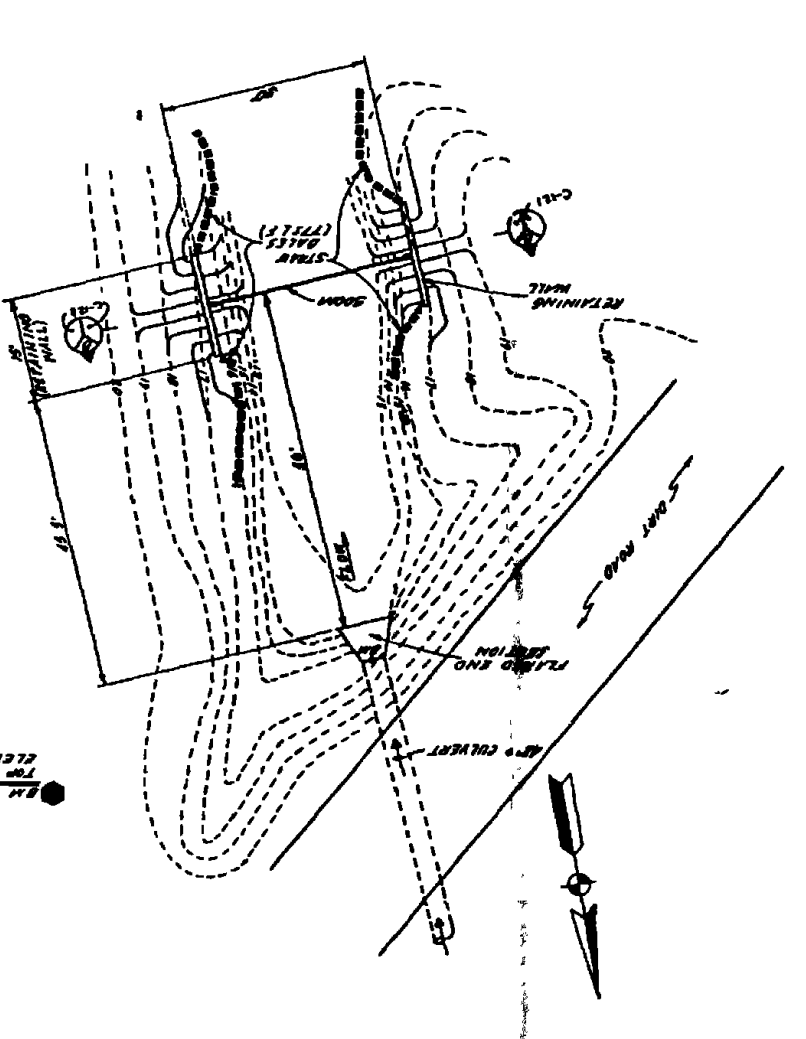
- NOTES
- 1) HEIGHT OF RETAINING WALLS VARIES ACCORDING TO FINISHED GRADE AS SHOWN ON GRADING PLAN SEE SHEET 5 & 9
 - 2) FOR LENGTH OF FLOATABLE BOOM ADD DISTANCE BETWEEN RETAINING WALLS
 - 3) FOR STRUCTURAL DETAILS OF RETAINING WALL, SEE SHEET 9
 - 4) FOR DETAILS OF SKIMMER DAMS, SEE SHEET C-121
 - 5) FOR LOCATIONS OF SKIMMER DAMS SEE VICINITY MAP FOR C-121



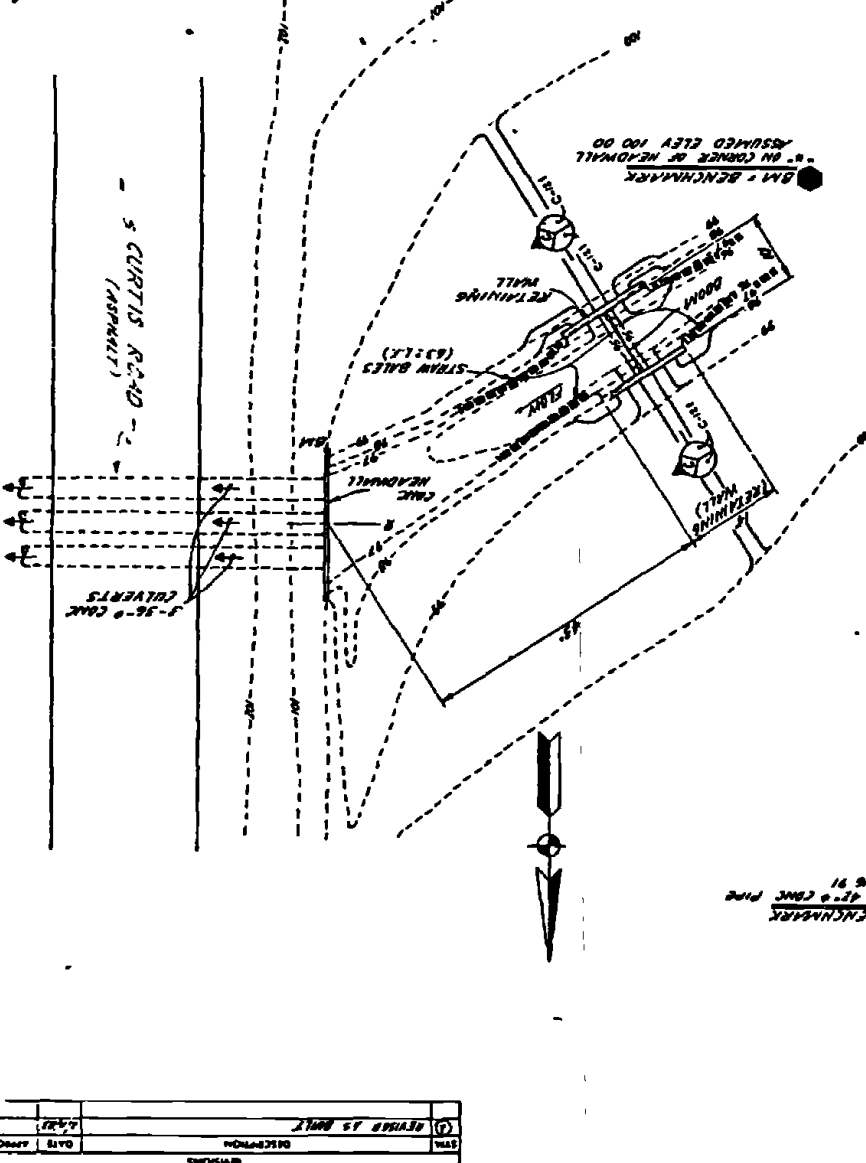
GRADING & LAYOUT PLAN - SKIMMER DAM # 1
SCALE 1" = 10'



GRADING & LAYOUT PLAN - SKIMMER DAM # 2
SCALE 1" = 10'

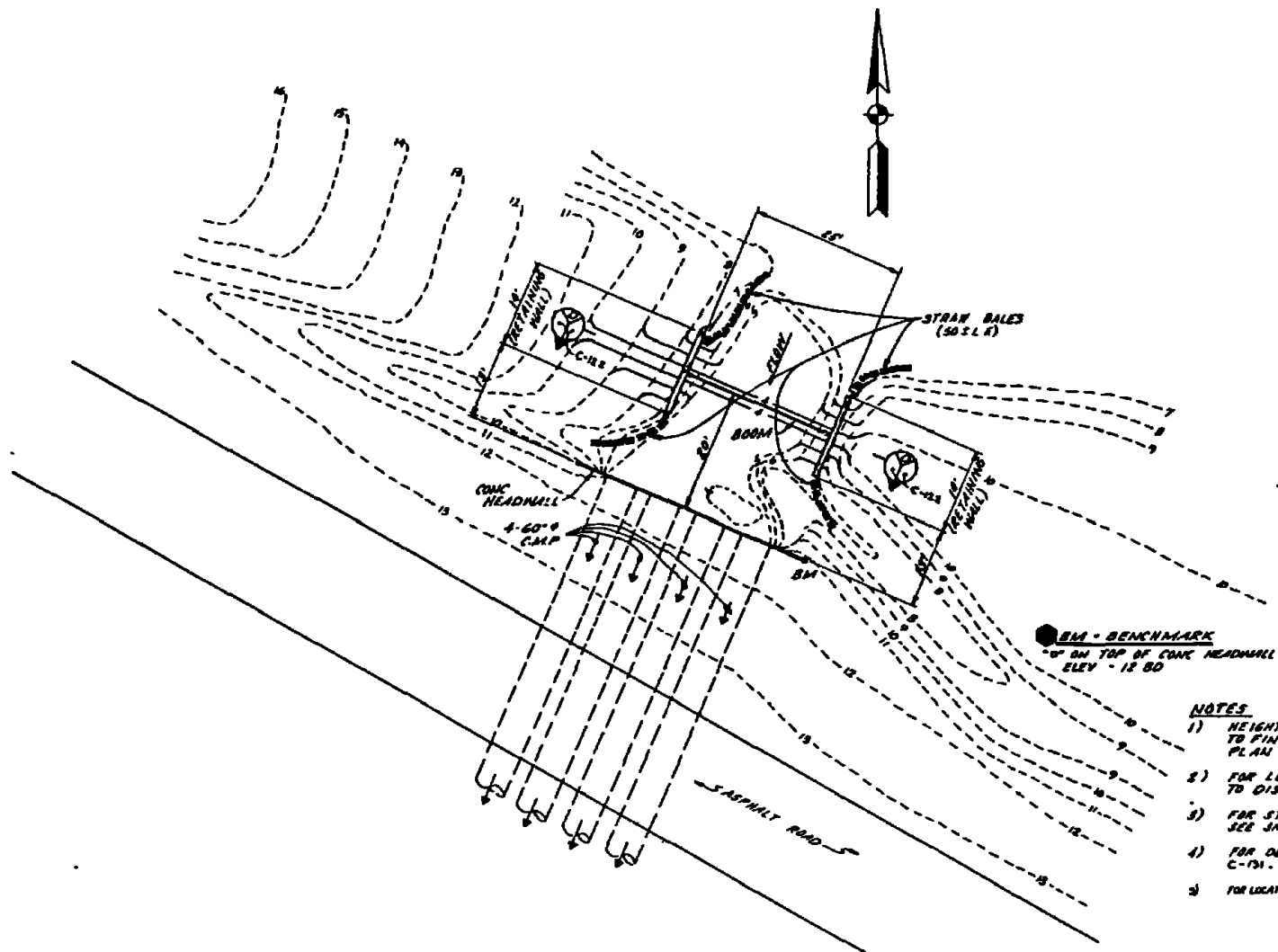


GRADING & LAYOUT PLAN - SKIMMER DAM # 3
SCALE 1" = 10'



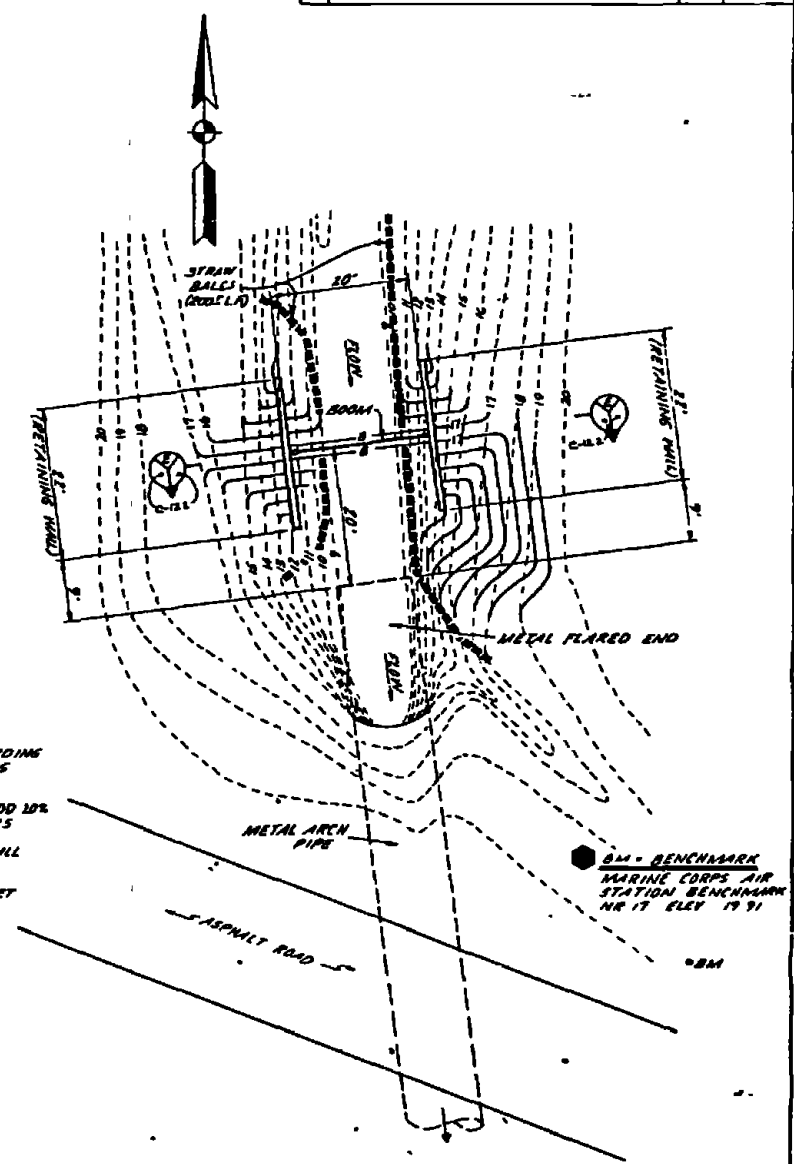
DATE	DESCRIPTION	BY
11/11/78	REVISED	...
...

SYN	DESCRIPTION	DATE	APPROVED
(C)	REVISED AS QWLT	1/1/71	

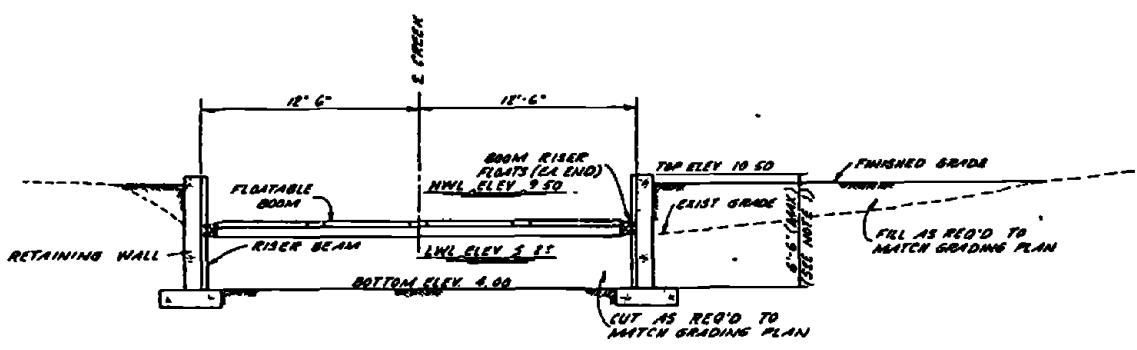


GRADING & LAYOUT PLAN - SKIMMER DAM # 3
SCALE: 1" = 10'

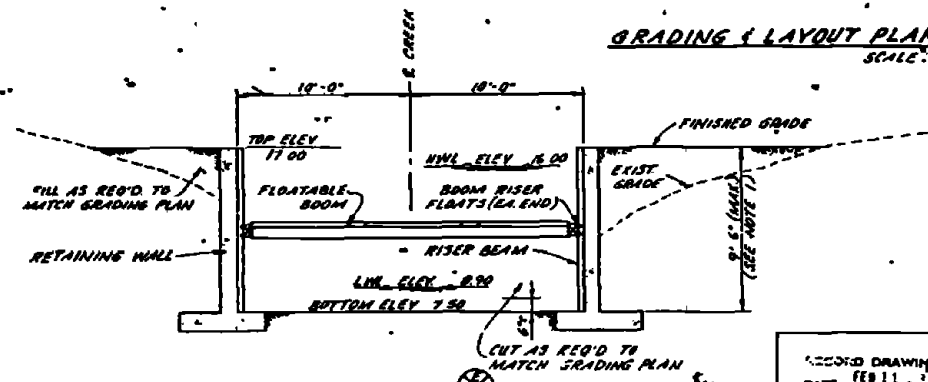
- NOTES**
- 1) HEIGHT OF RETAINING WALLS VARIES ACCORDING TO FINISHED GRADES SHOWN ON GRADING PLAN
 - 2) FOR LENGTH OF FLOATABLE BOOM REQ'D. ADD 10% TO DISTANCE BETWEEN RETAINING WALLS
 - 3) FOR STRUCTURAL DETAILS OF RETAINING WALL SEE SHEET S-9
 - 4) FOR DETAILS OF SKIMMER DAMS SEE SHEET C-101
 - 5) FOR LOCATION OF SKIMMER DAMS SEE SHEET C-19



GRADING & LAYOUT PLAN - SKIMMER DAM # 4
SCALE: 1" = 10'

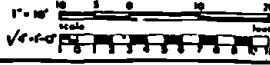


SECTION C-122
SCALE: 1/4" = 1'-0"

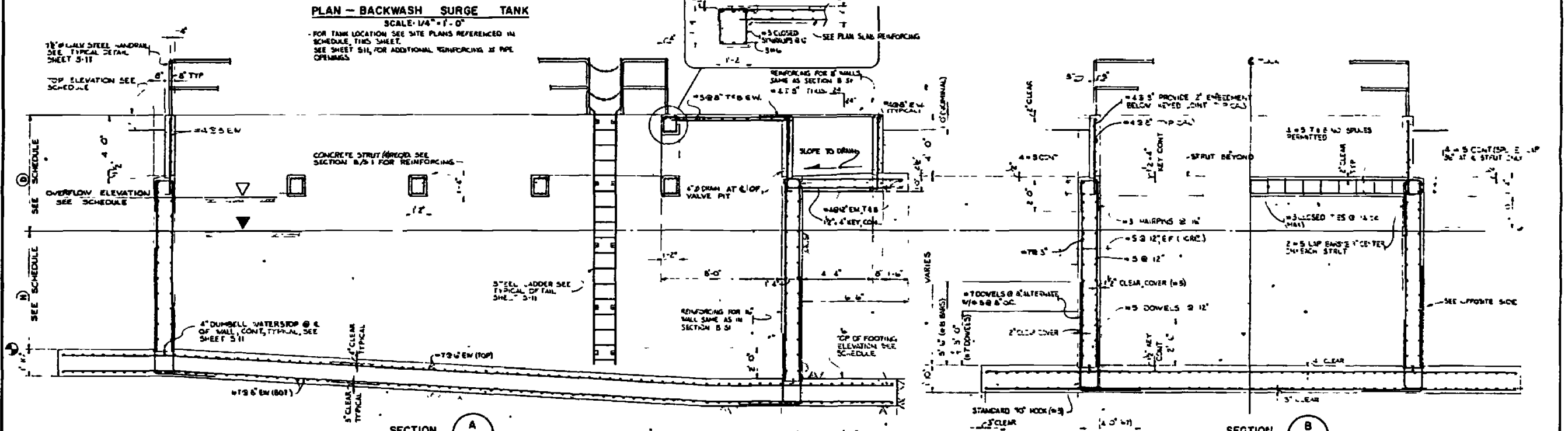
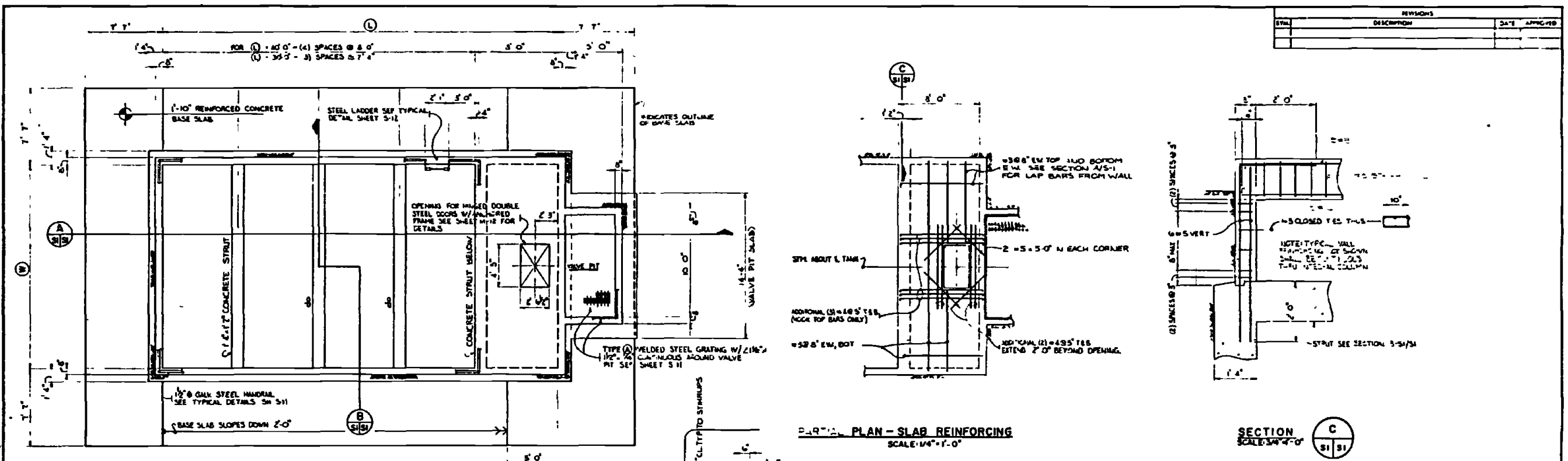


SECTION C-122
SCALE: 1/4" = 1'-0"

SECOND DRAWING DATE FEB 11 1971		C-122	
AUSTIN BROCKENBROUGH AND ASSOCIATES		NAVY FACILITIES ENGINEERING COMMAND	
MARINE CORPS BASE		ATLANTIC DIVISION	
CAMP LEJEUNE, NORTH CAROLINA		INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES	
SITE PLANS - SKIMMER DAMS # 3 & 4		CIVIL	
PROJECT NO. 4052571	DATE 1/15/71	SCALE 1/4" = 1'-0"	SHEET 12 OF 17
DESIGNED BY [Signature]	CHECKED BY [Signature]	APPROVED BY [Signature]	DATE 1/15/71



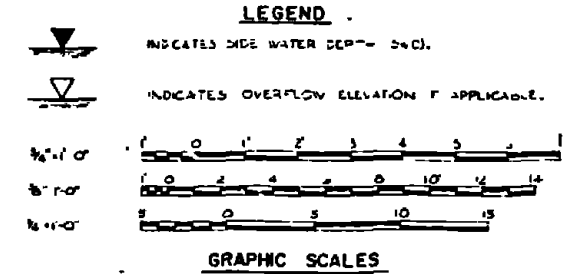
NO.	DESCRIPTION	DATE	APPROVED



BACKWASH SURGE TANK SCHEDULE									
CIVIL SHEET	SITE	DIMENSIONS				OVERFLOW ELEV.	TOP ELEV.	BOT. ELEV.	
		D	H	L	W				
C-22	1-4	4'-0"	8'-0"	40'-0"	20'-0"	19.30	19.00	2.39	
C-27	2-1	5'-0"	8'-0"	4'-0"	15'-0"	16.50	21.00	5.5	
C-16	20-4	7'-0"	8'-0"	40'-0"	20'-0"	17.00	22.15	5.5	
C-70	17-3	7'-0"	8'-0"	40'-0"	20'-0"	2.00	7.50	3	
C-39	2	7'-0"	8'-0"	20'-0"	5'-0"	47.50	55.00	7.5	
C-125	22-1	7'-0"	8'-0"	30'-0"	13'-0"	7.50	2.00	5.5	
C-137	MCAS E	SEE SHEET 5-4							

GENERAL NOTES - STRUCTURAL

- DESIGN IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NAVFAC DM-2, DM-3, ACI 318, AND ACI 350 (CONCRETE SANITARY STRUCTURES).
- FOR CALCULATION OF MAXIMUM HYDROSTATIC PRESSURE ON TANK SIDE AND BOTTOM, GROUND WATER ASSUMED AT GRADE.
- DESIGN LIVE LOAD SERVICE GRATINGS AND SUSPENDED CONCRETE SLABS: 100 PSF LATERAL EARTH PRESSURE - 87 PCF PER FOOT OF DEPTH IN SATURATED CONDITION. LATERAL LIQUID PRESSURE - 62 PCF PER FOOT OF DEPTH.
- CONCRETE SHALL BE NORMAL WEIGHT AIR ENTRAINED AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60.
- STRUCTURAL STEEL SHAPES, PLATES AND BARS SHALL CONFORM TO ASTM A 36.
- WELDS SHALL BE MADE WITH E TO ELECTRODES AND ALL BOLTS SHALL CONFORM TO ASTM A 307.
- PROVIDE 1/4" CHAMFER AT ALL EXPOSED EXTERIOR EDGES OF REINFORCED CONCRETE.
- REFER TO SHEET 5-1E FOR TYPICAL DETAILS OF CORNER AND INTERSECTIONS.



RECORD DRAWING
DATE: FEB 11 1960

AUSTIN BROCKENBROUGH AND ASSOCIATES
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

ATLANTIC DIVISION
INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
BACKWASH SURGE TANKS

PROJECT NO.: F 80091
CONTRACT NO.: 4052605

SCALE AS NOTED NC 05 78 2088

00142 D123Z

00142 D 1242

RECORD DRAWING
DATE: FEB 11 1968
PROJECT: INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES
SHEET: S-2

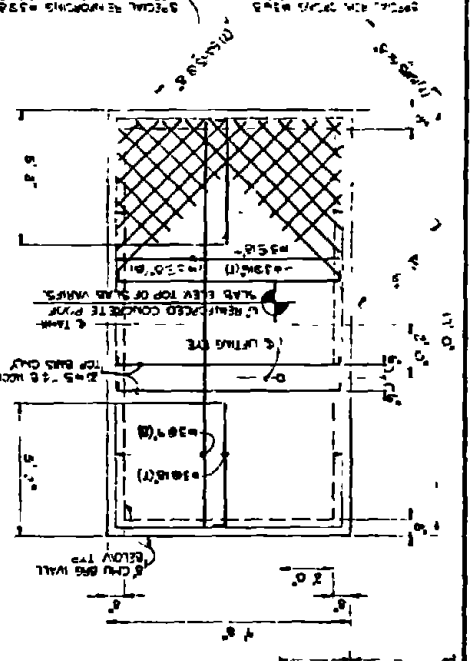
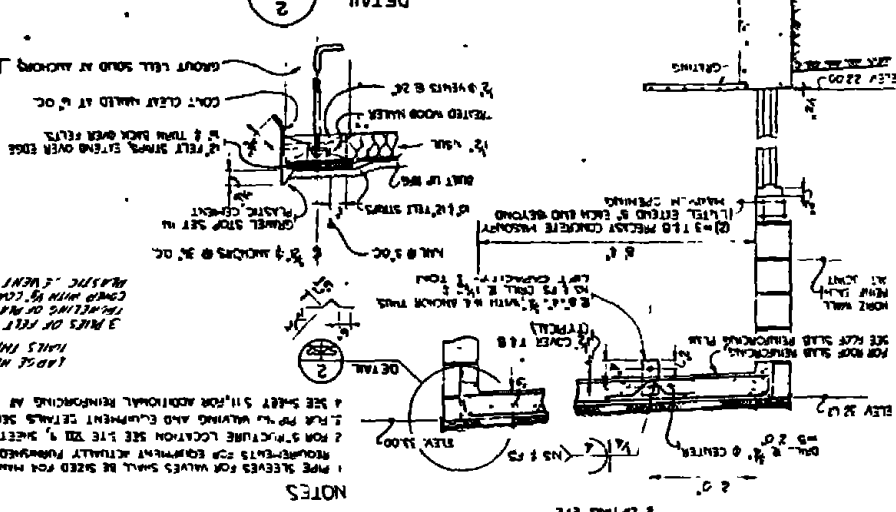
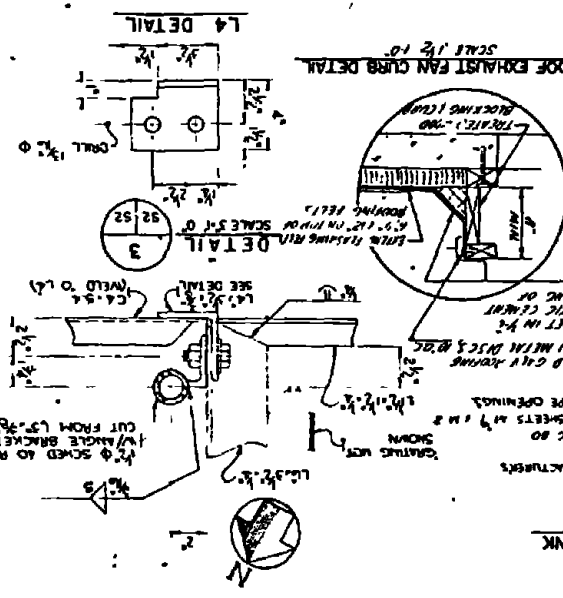
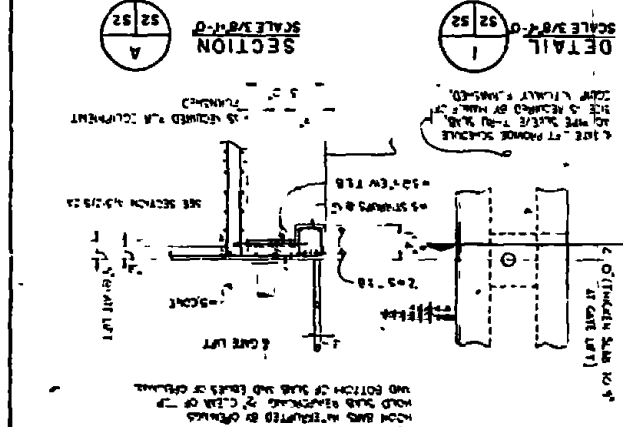
ATLANTIC DIVISION
AND ASSOCIATES

SCALE: 3/8" = 1'-0"

GRAPHIC SCALES
SCALE: 1/4" = 1'-0"

SECTION - CONTROL BUILDING
SCALE: 3/8" = 1'-0"

PLAN - ROOF SLAB REINFORCING
SCALE: 3/8" = 1'-0"

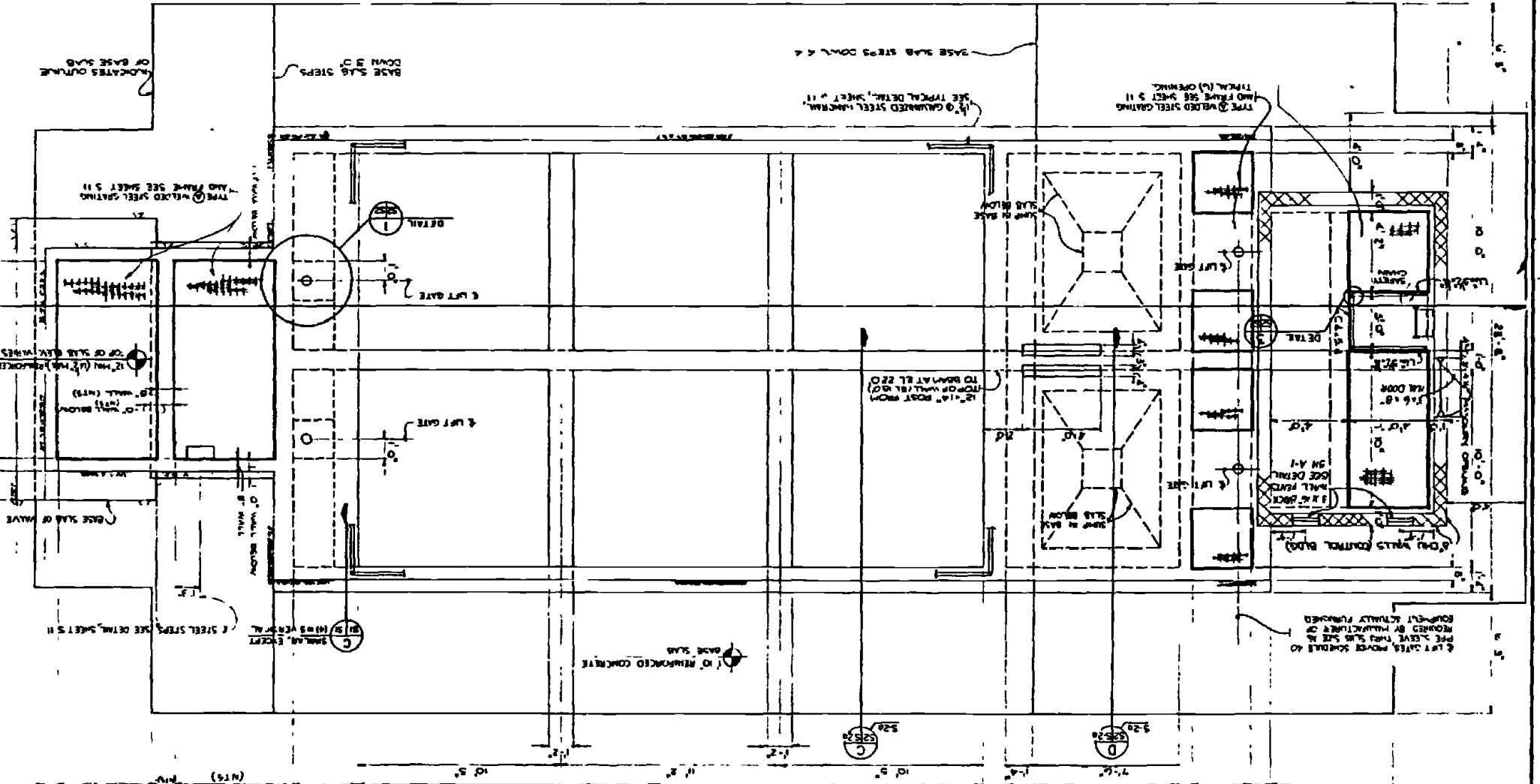
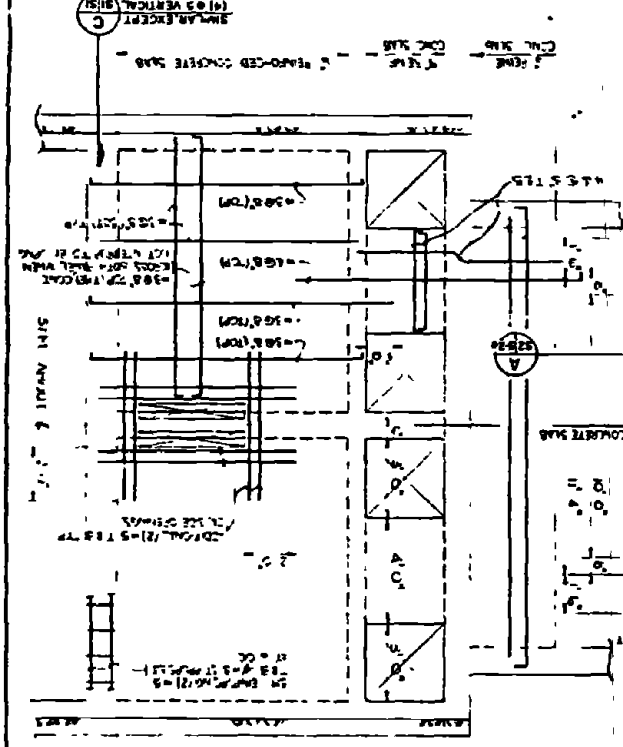


PLAN - BACKWASH WASTE SETTLING TANK
SCALE: 3/8" = 1'-0"

NOTES

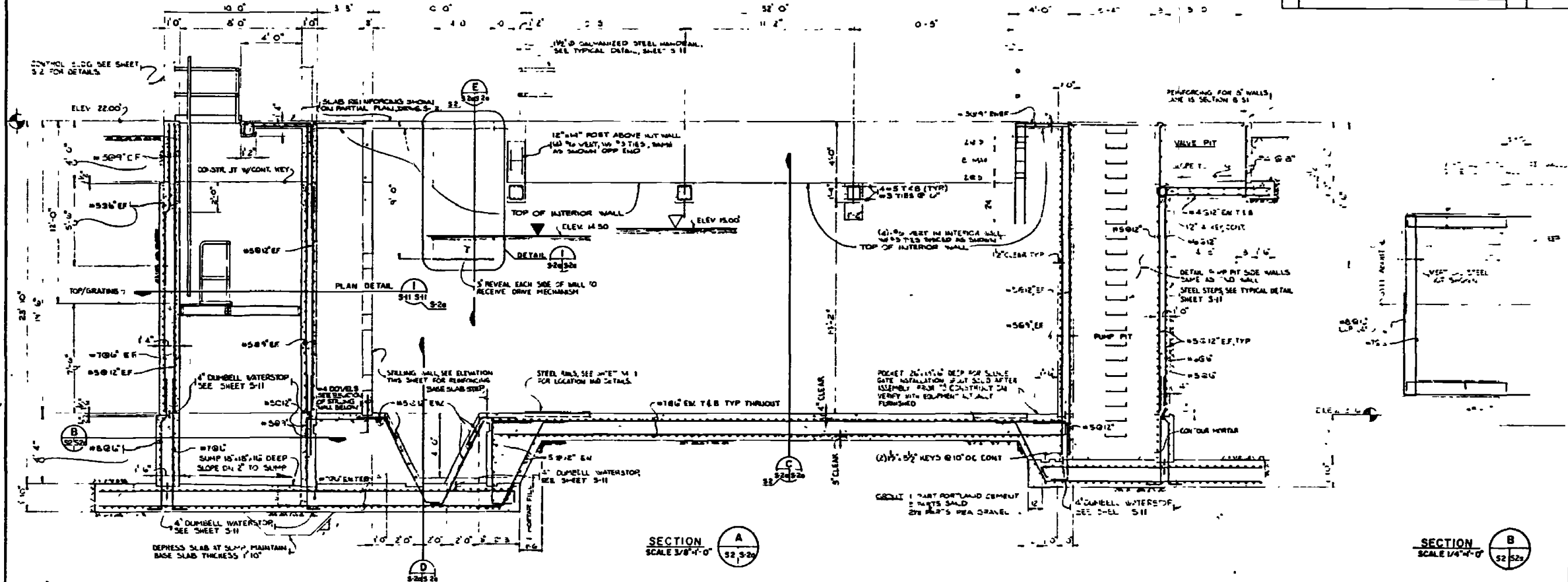
1. SHEETS FOR WALLS SHALL BE USED FOR MANUFACTURERS' REQUIREMENTS FOR EQUIPMENT ACTUALLY PURCHASED.
2. FOR STRUCTURE LOCATION SEE SHEET S-11.
3. SEE SHEET S-11 FOR ADDITIONAL REINFORCING AT PIPE OPENINGS.
4. SEE SHEET S-11 FOR ADDITIONAL REINFORCING AT PIPE OPENINGS.

PARTIAL PLAN - SLAB REINFORCING
SCALE: 3/8" = 1'-0"



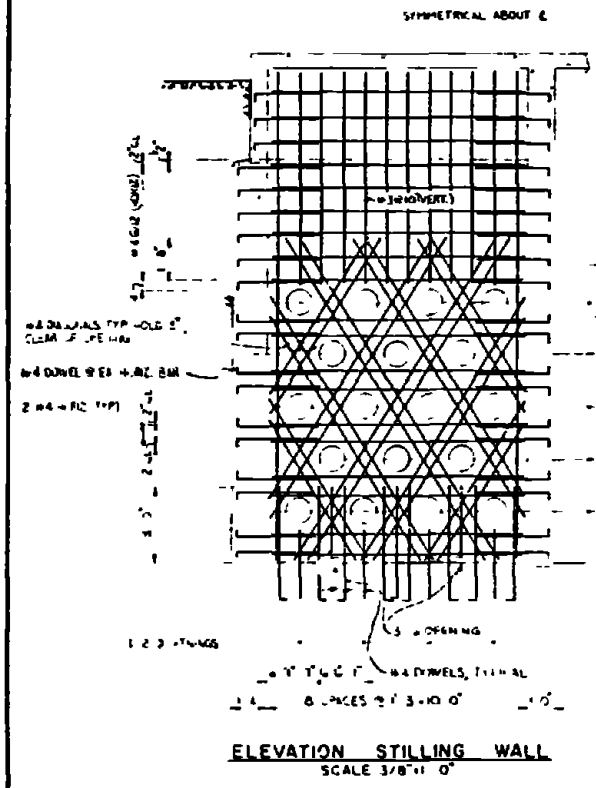
NO.	DESCRIPTION	DATE

NO.	DESCRIPTION	DATE	APPROVED

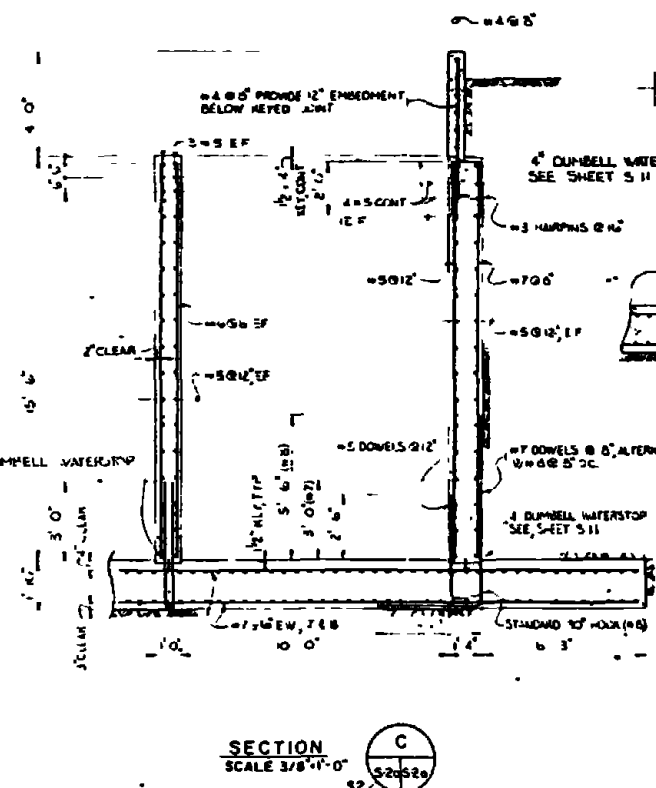


SECTION A
SCALE 3/8"=1'-0"

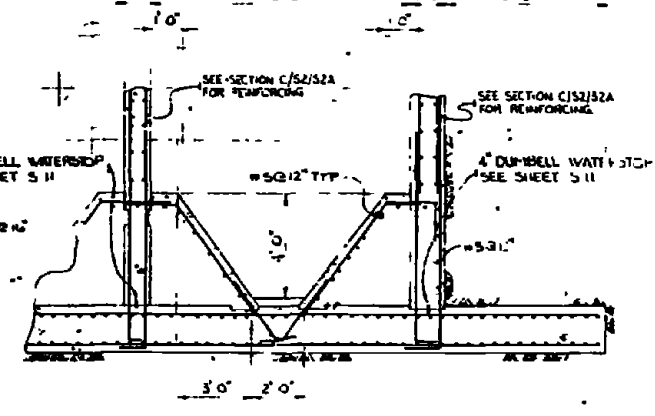
SECTION B
SCALE 1/4"=1'-0"



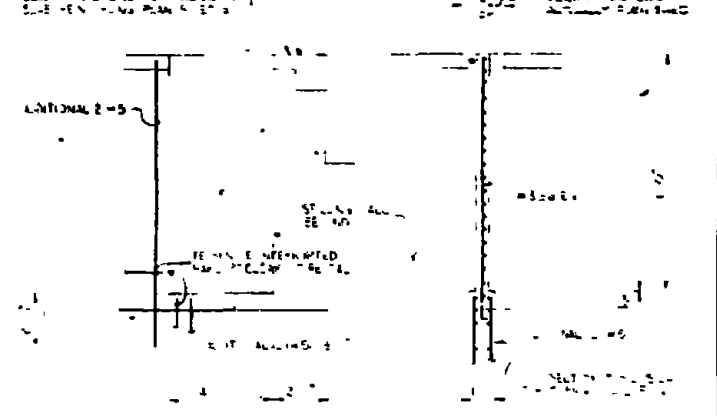
ELEVATION STILLING WALL
SCALE 3/8"=1'-0"



SECTION C
SCALE 3/8"=1'-0"



SECTION D
SCALE 3/8"=1'-0"



SECTION E
SCALE 3/8"=1'-0"

DETAIL I
SCALE 3/8"=1'-0"

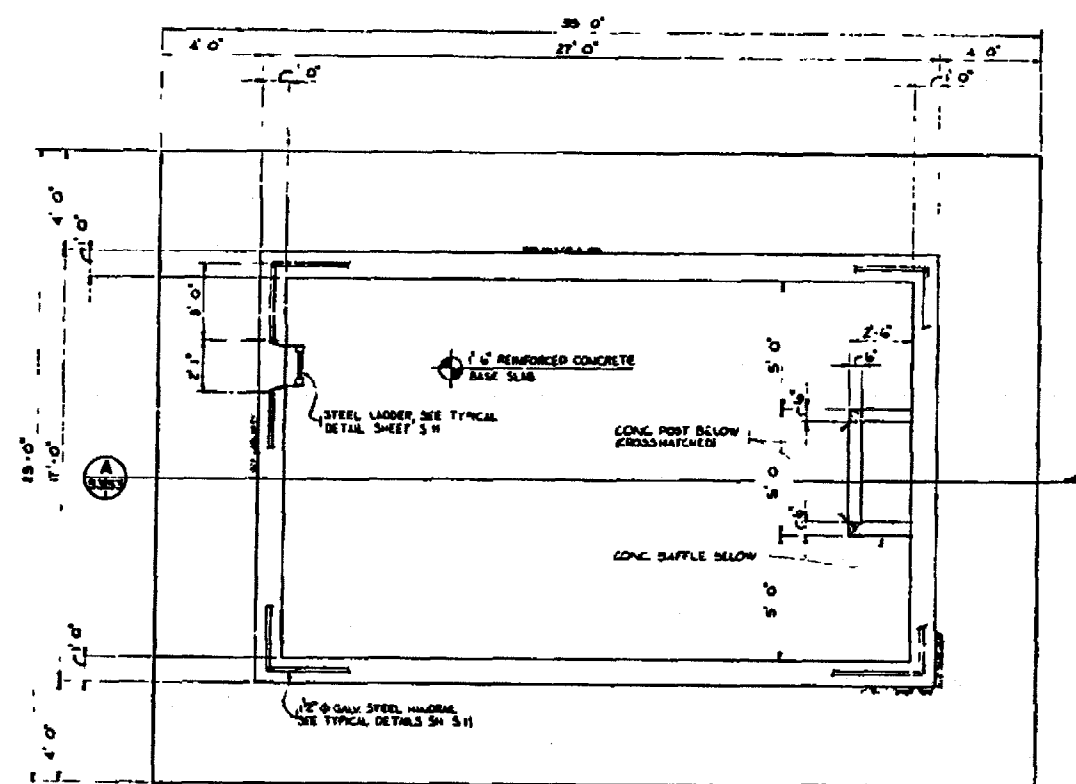
- INDICATES SIDE WATER DEPTH (SWD)
- INDICATES OVERFLOW ELEVATION, IF APPLICABLE

LEGEND

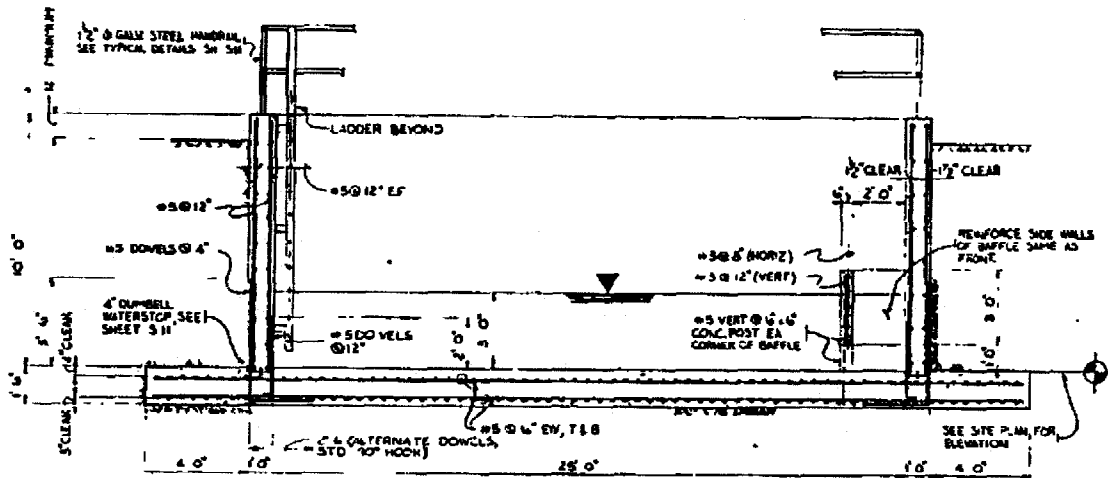
GRAPHIC SCALES

	RECORD DRAWING DATE FEB 11 1981	S-2A
	AUSTIN BROCKNOUGH AND ASSOCIATES 1400 GWA HOUSTON, TEXAS 77057	
	PROJECT NO. 80091	

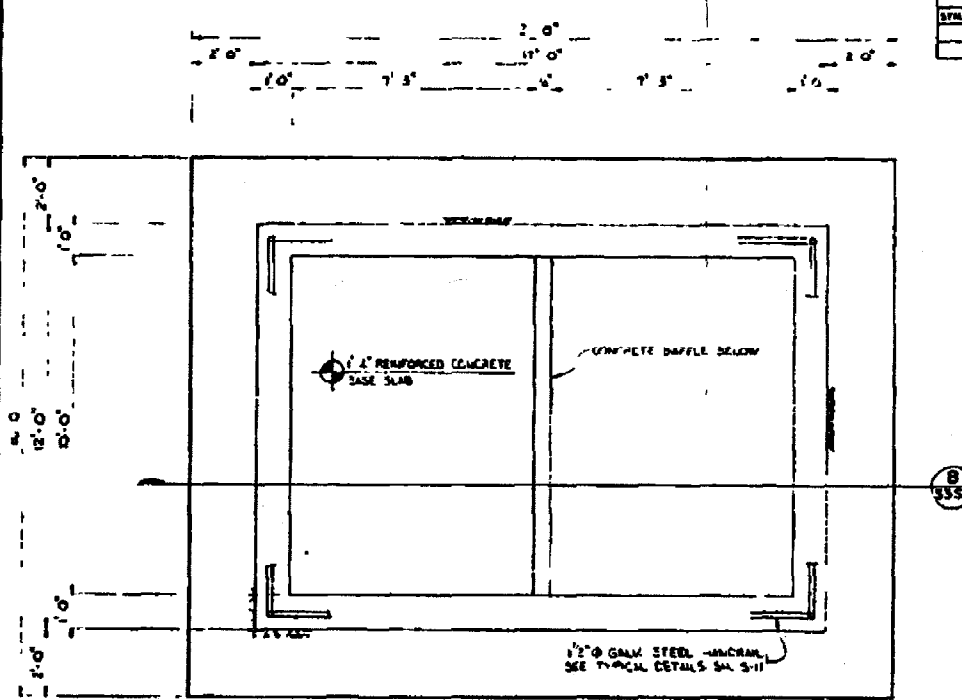
0014201252



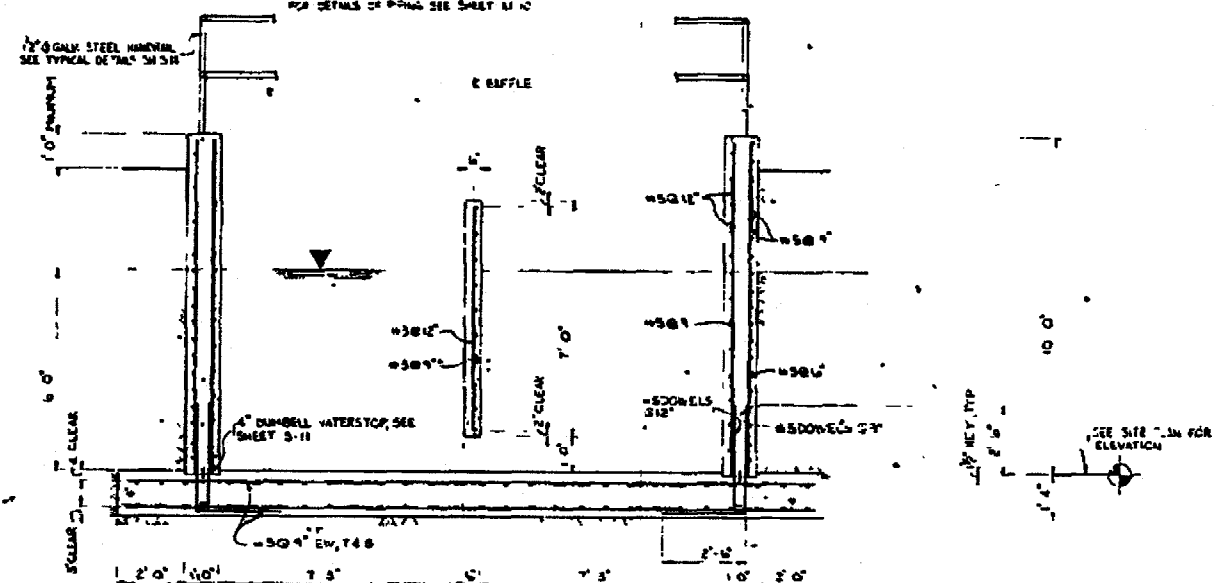
PLAN - BLOWDOWN COOLING TANK
 SCALE 3/8" = 1'-0"
 FOR LOCATION SEE SITE SHEET G-2, SHEET C-61
 FOR DETAILS OF PIPING, SEE SHEET M-19



SECTION A
 SCALE 3/8" = 1'-0"

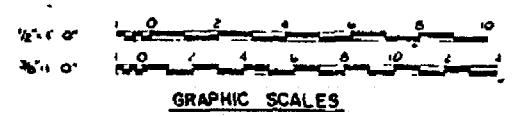


PLAN - CONTAINMENT BASIN
 SCALE 1/2" = 1'-0"



SECTION B
 SCALE 1/2" = 1'-0"

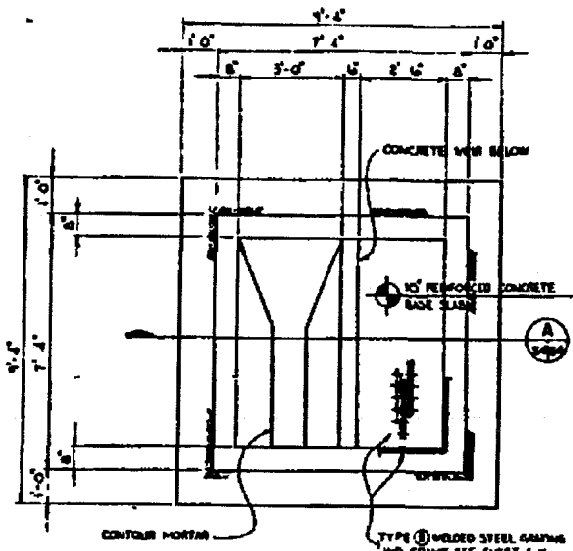
NOTE
 BAFFLE MUST BE PLACED AND CURED PRIOR TO BACKFILLING TANK SIDEWALLS



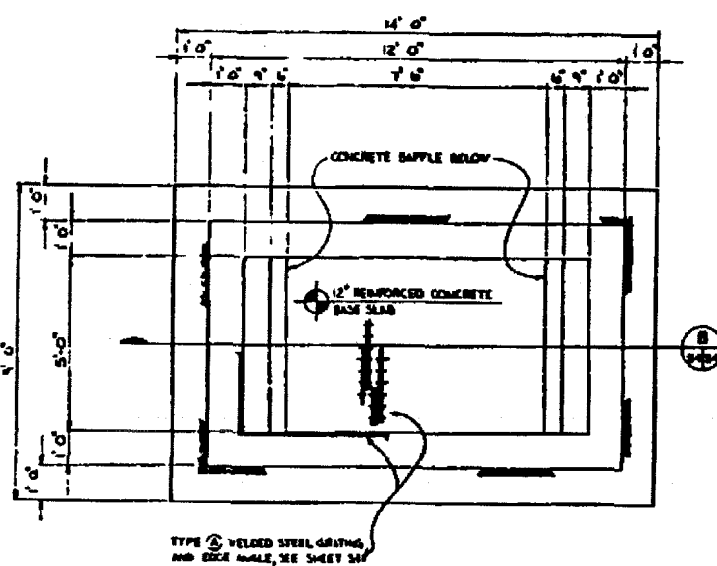
SYMBOL	DESCRIPTION	DATE	AMOUNT

	REVISIONS DATE: 10/1/80	S-3
	AUSTIN BROCKENSHMIDT AND ASSOCIATES ENGINEERS ARCHITECTS 1100 N. MICHIGAN ST., SUITE 100 AUSTIN, TEXAS 78701	
	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	PROJECT NO. 4052609 DRAWING NO. 80091 SHEET 27 OF 124

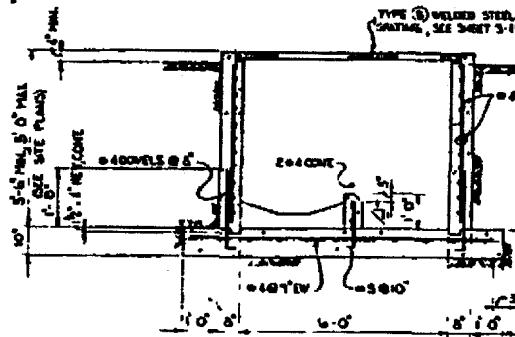
00142D126Z



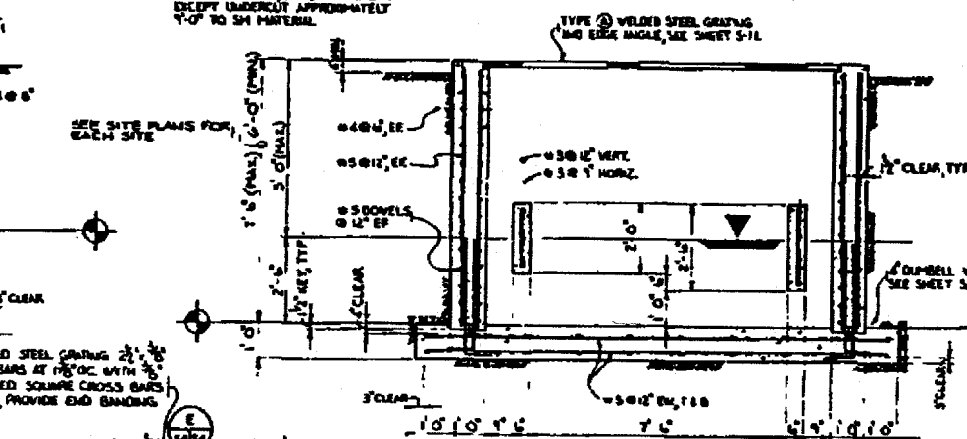
PLAN - STORM WATER BYPASS CHAMBER
SCALE: 1/2" = 1'-0"
VARIOUS LOCATIONS, SEE CIVIL SHEETS



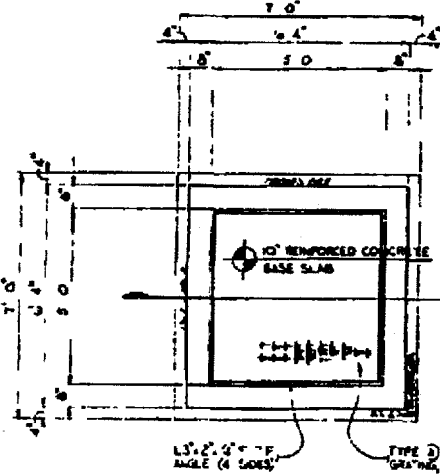
PLAN - OIL/WATER SEPARATOR
SCALE: 1/2" = 1'-0"
VARIOUS LOCATIONS SEE CIVIL SHEETS



SECTION A
SCALE: 1/2" = 1'-0"

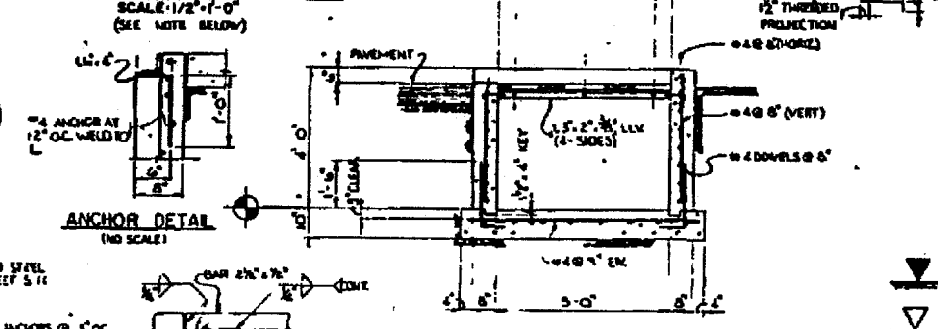


SECTION B
SCALE: 1/2" = 1'-0"



PLAN - GRIT CHAMBER
SCALE: 1/2" = 1'-0"

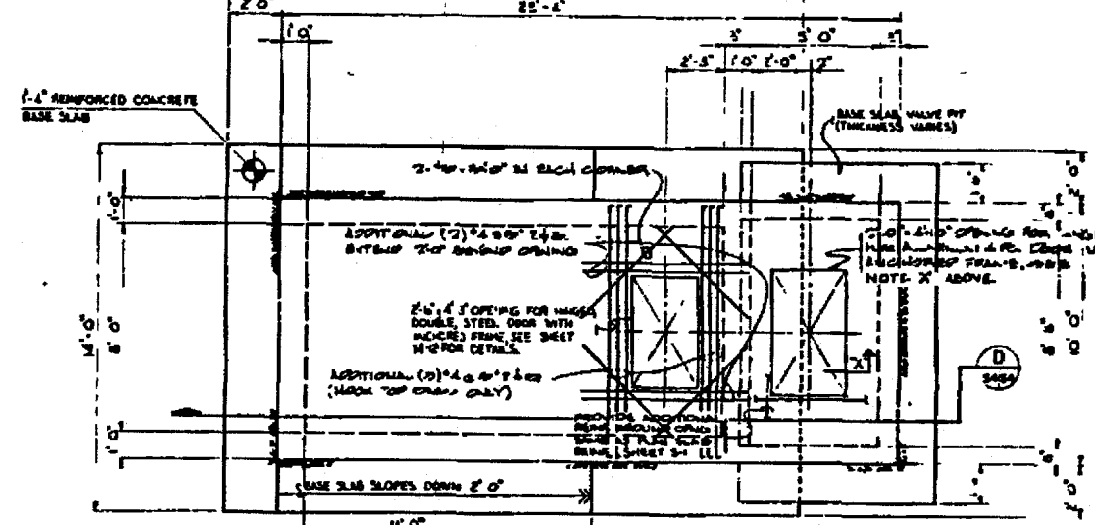
GRIT CHAMBER, FRAME AND GRATING
900 AND 1800 AREAS ONLY
SCALE: 1/2" = 1'-0"
(SEE NOTE BELOW)



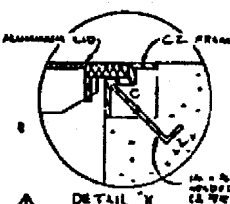
SECTION E
NO SCALE

GENERAL NOTES (THIS SHEET)
1. FOR LOCATION PLAN ORIENTATION, STORM WATER BYPASS, OIL/WATER SEPARATOR AND GRIT CHAMBER, SEE CIVIL SHEETS.
2. FOR PIPING, RELATED DETAILS, SEE SHEET M-10.
3. FOR PIPING, VALVING AND RELATED DETAILS, BACKWASH SURGE TANK, MCAS-E, SEE SHEET M-12.
4. FOR ADDITIONAL REINFORCING AT PIPE OPENINGS, SEE SHEET S-11.

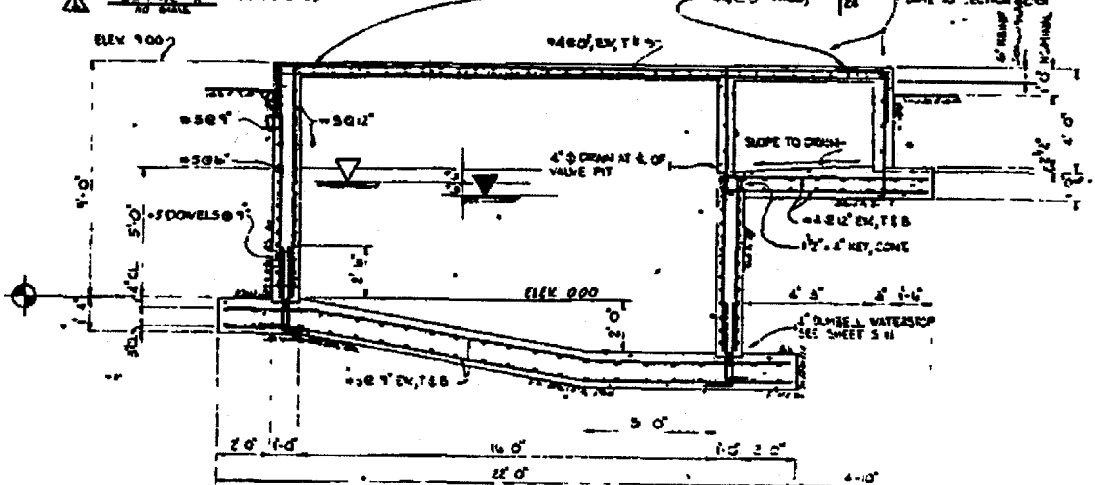
NOTE A: ALUMINUM ACCESS DOOR FOR VALVE PIT SHALL BE 4'-0" TYPE WIPED CAST IRON FRAME, 1'-0" ALUMINUM 3'-0" TRAVEL SHALL BE IN FOUR SECTIONS SOLID "DOORABLE" 3/4" TRIPLE ABLE SUPPORT BAR SHALL BE PROVIDED IN MIDDLE OF FRAME. FOUR HIGH STRENGTH ALUM. LIDS SHALL HAVE 2500# STRENGTH OF 2 1/2" DIA. IS HOLDING CAPACITY SHALL BE 2500# DIA 2 1/2" LIDS & LIFTS FOR 10' DIA. LIDS SHALL BE TYPE "H" REMOVABLE CAPS & SHALL BE FLUSH TYPE W/ REMOVABLE CAPS & SHALL BE TOTAL WEIGHT 2,500 POUNDS



PLAN - BACKWASH SURGE TANK - MCAS-E
SCALE: 3/8" = 1'-0"
FOR LOCATION SEE MCAS-E SITE SHEET S-1111
RE SLOPE 3' HORIZONTAL ELEVATION TO 5' IN MATERIAL, APPROXIMATELY 5' OF DEPTH BASE SLAB, SEALER WITH COMPACTED CRUSHED STONE

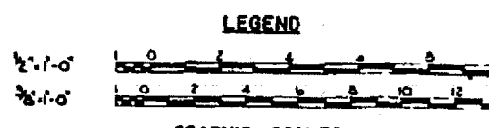


DETAIL Y



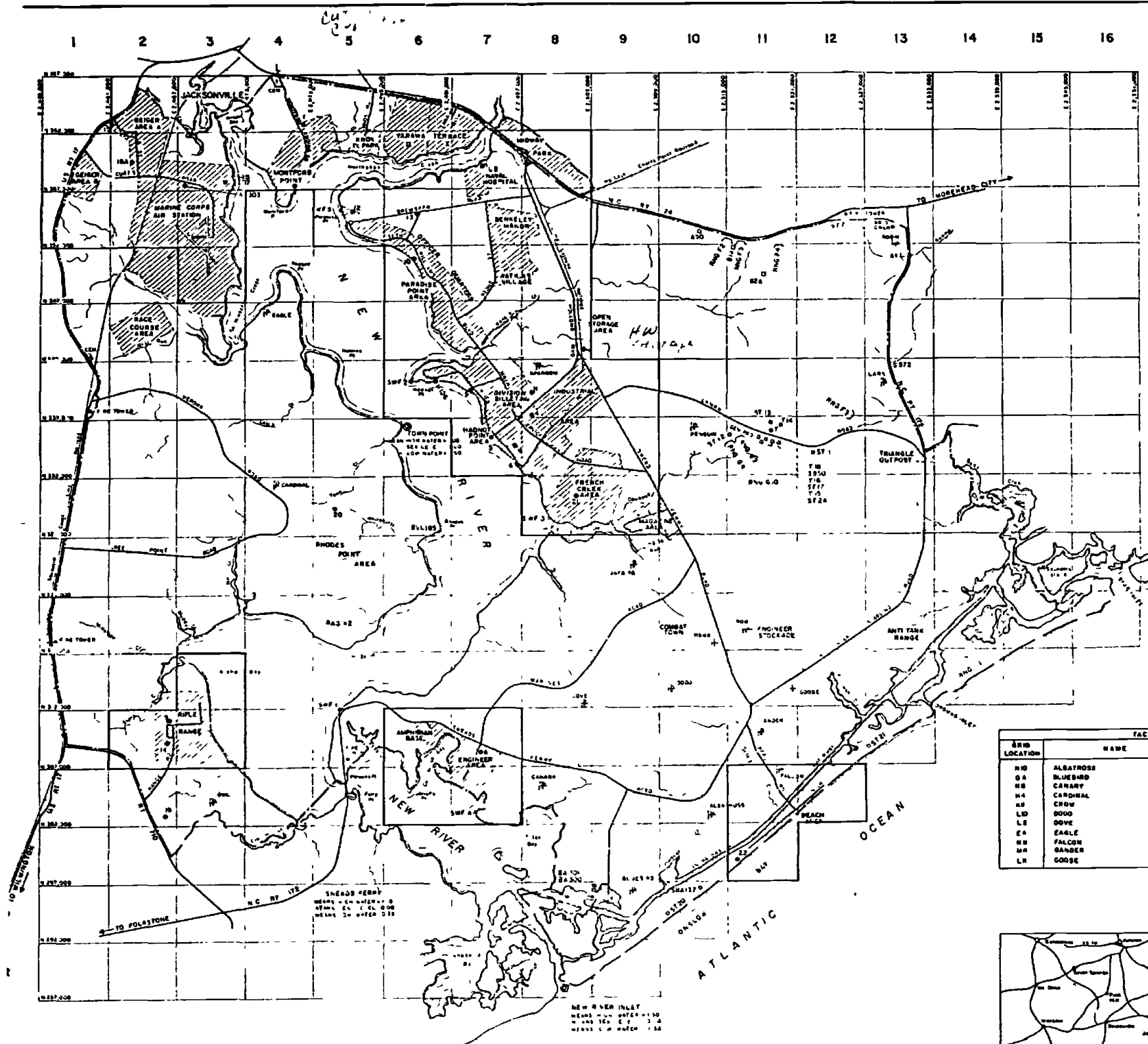
SECTION D
SCALE: 3/8" = 1'-0"

INDICATES SIDE WATER DEPTH (SWD)
INDICATES OVERFLOW ELEVATION, IF APPLICABLE



	RECORD DRAWING DATE: 12/11/01 S-4
	DEPARTMENT OF THE NAVY NORTH CAROLINA ENGINEERING COMPANY ATLANTIC DIVISION INDUSTRIAL WASTE COLLECTION & TREATMENT FACILITIES STORM BYPASS CHAMBER GRIT CHAMBER OIL/WATER SEPARATOR BACKWASH SURGE TANK MCAS-E STRUCTURE
PROJECT NO. 01-10 DRAWING NO. 12/11/01 DATE: 12/11/01 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]	SHEET NO. 80091 TOTAL SHEETS 8200 DATE: 12/11/01

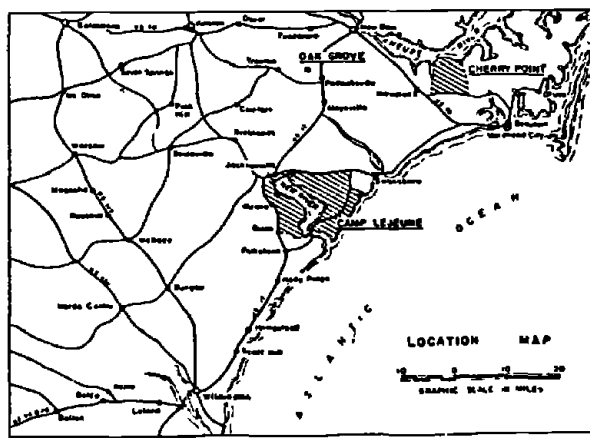
00142 D 127Z



GRID LOCATION	AREA NAME
C2	AIR STATION
H6	AMPHIBIAN BASE
H0	ANTI-TANK RANGE
H2	BEACH
C7	BECKET WARD
H0	COMBAT TOWN
H7	ENGINEER AREA (COURTHOUSE BAY)
H8	ENGINEER STOCKADE
H8	FRENCH CREEK
A2	GEIGER 'C'
B4	GEIGER 'M'
B7	HADNOT POINT AREA
B5	KNOX TRAILER PARK
H9	MAGNINE AREA
H8	MIDWAY PARK
B8	MONTFORD POINT
E2	OPEN STORAGE AREA
B6	PARADISE POINT AREA
E8	RACE COURSE AREA
J5	RHODES POINT AREA
H2	RIFLE RANGE
H4	TANAWA TERRACE I & II
G0	TRIANGLE OUTPOST
G7	WATSON VILLAGE
B7	US NAVAL HOSPITAL

GRID LOCATION	LZ NO.	HELICOPTER LANDING ZONE
A4	1	MONTFORD POINT
B4		MONTFORD POINT
F6	H000	HADNOT POINT - RIVER ROAD
F7	2	HADNOT POINT - RIVER ROAD
F8	4	HADNOT POINT - WPT MIL FIELD
G7	1	HADNOT POINT - 2nd MAR DIV CP
G7	2	HADNOT POINT - 3rd MAR AREA
H8	7	CP 2 AREA - LUDMAN ROAD
H7	8	ENGINEER - COURTHOUSE BAY
H2	9	RIFLE RANGE
H4	10	HADNOT POINT - TENNIS COURT/DOO
F8	11	HADNOT POINT - FORCE TROOPS CP
C5	12	PARADISE POINT - GOLF COURSE
C6	13	PARADISE POINT - GOLF COURSE
H2	14	RIFLE RANGE - QUARTERS
A2	15	GEIGER - CP
G2	15A	GEIGER - CP
H8	18	HADNOT POINT - 2nd MAR AREA
I7	17	RADIO ISLAND MOREHEAD CITY
H8	19	1TC - BE 2ND
H8	20	RHODES POINT - VERONA ROAD
H6	21	FRENCH CREEK
H2	22	BEACH AREA
B7		US NAVAL HOSPITAL
B3	303	AIR STATION
B3	707	AIR STATION

TACTICAL LANDING ZONES (TLZ)			
GRID LOCATION	NAME	GRID LOCATION	NAME
H0	ALBATROSS	J0	KNOX
G4	BLUEBIRD	F3	LARK
H4	CARDINAL	H3	OWL
H8	CROW	G0	PERCH
L0	DOO	B3	ROBIN
L8	DOVE	F8	SPARROW
E4	EARLE		
H8	FALCON		
H8	GANDER		
L8	GOOSE		

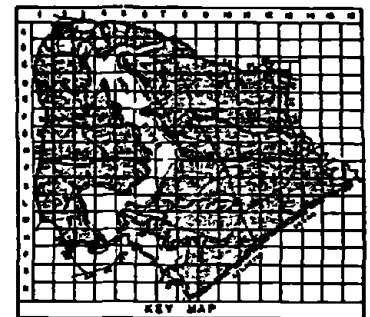
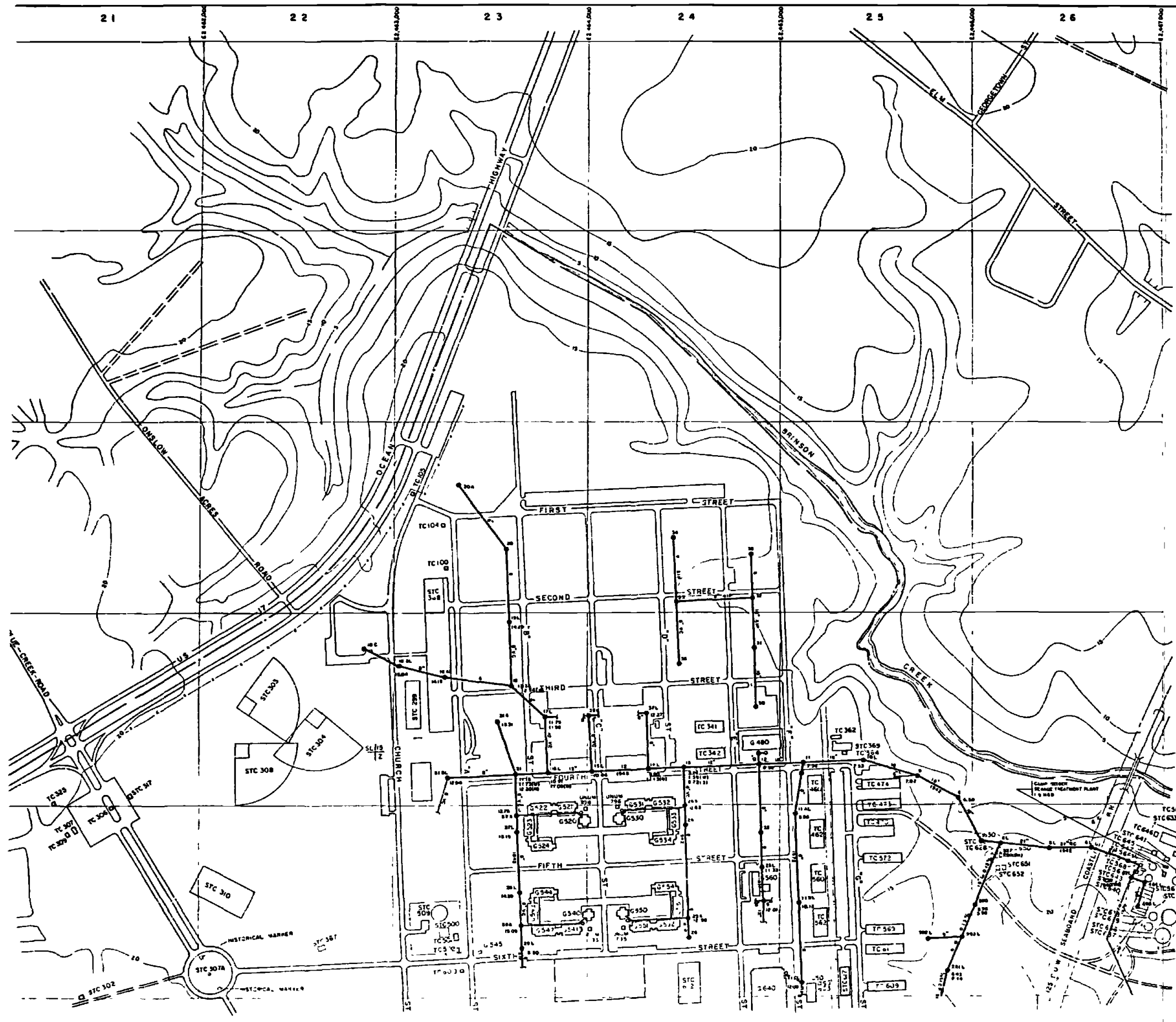


- LEGEND**
- CAMP LEJEUNE BOUNDARY
 - HELICOPTER LANDING ZONE
 - # TACTICAL LANDING ZONE
 - 10' WARNING FLAG
 - ⊙ OBSERVATION POINTS



NO.	DESCRIPTION OF REVISION	DATE	INT.
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
INDEX - 200' SCALE MAPS WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	SCALE GRAPHIC	SHEET	4-1 of 13
APPROVED / DATE			

D1282



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Shaded-USGS Maps)
- HELICOPTER LANDING ZONE
- RESERVATION BOUNDARY
- SANITARY SEWER
- MANHOLE
- FORCE MAIN
- ABANDONED IN PLACE
- SERVICE LINE

FEDERAL OF CONSTRUCTION
 MC - REINFORCED CONCRETE
 VC - VITRIFIED CLAY

NOTES:
 ALL HEIGHTY FEEDERS ARE TYPED WITH UNLESS NOTED OTHERWISE.



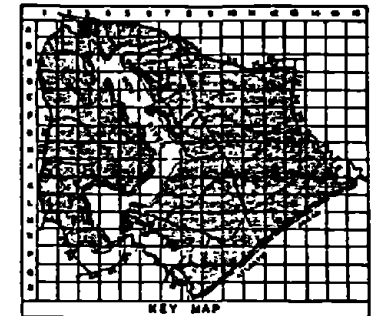
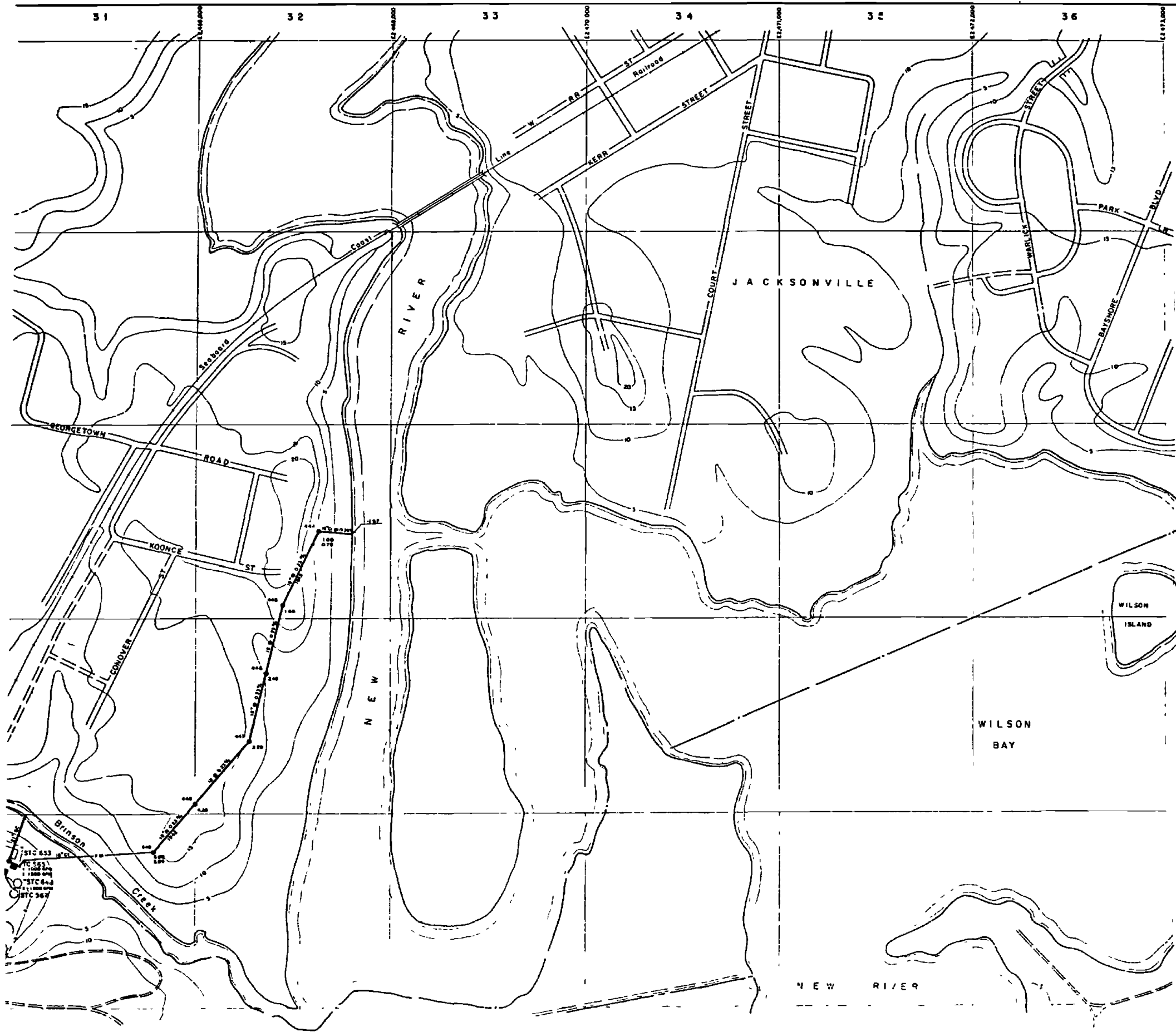
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE 21 JUL 51	SCALE GRAPHIC	SHEET A-2 of 73
APPROVED / DATE		

D129Z

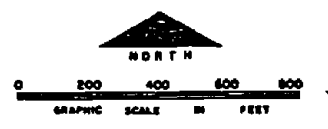


LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source-UGS Maps)
- RESERVATION BOUNDARY
- AIR STATION BOUNDARY
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- FORCE MAIN
- SEWAGE PUMPING STATION

MATERIAL OF CONSTRUCTION
 C1 - CAST IRON
 C2 - REINFORCED CONCRETE

NOTE: ALL SANITARY SEWERS ARE TYPED WITH UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY

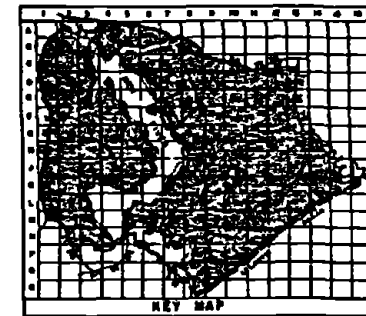
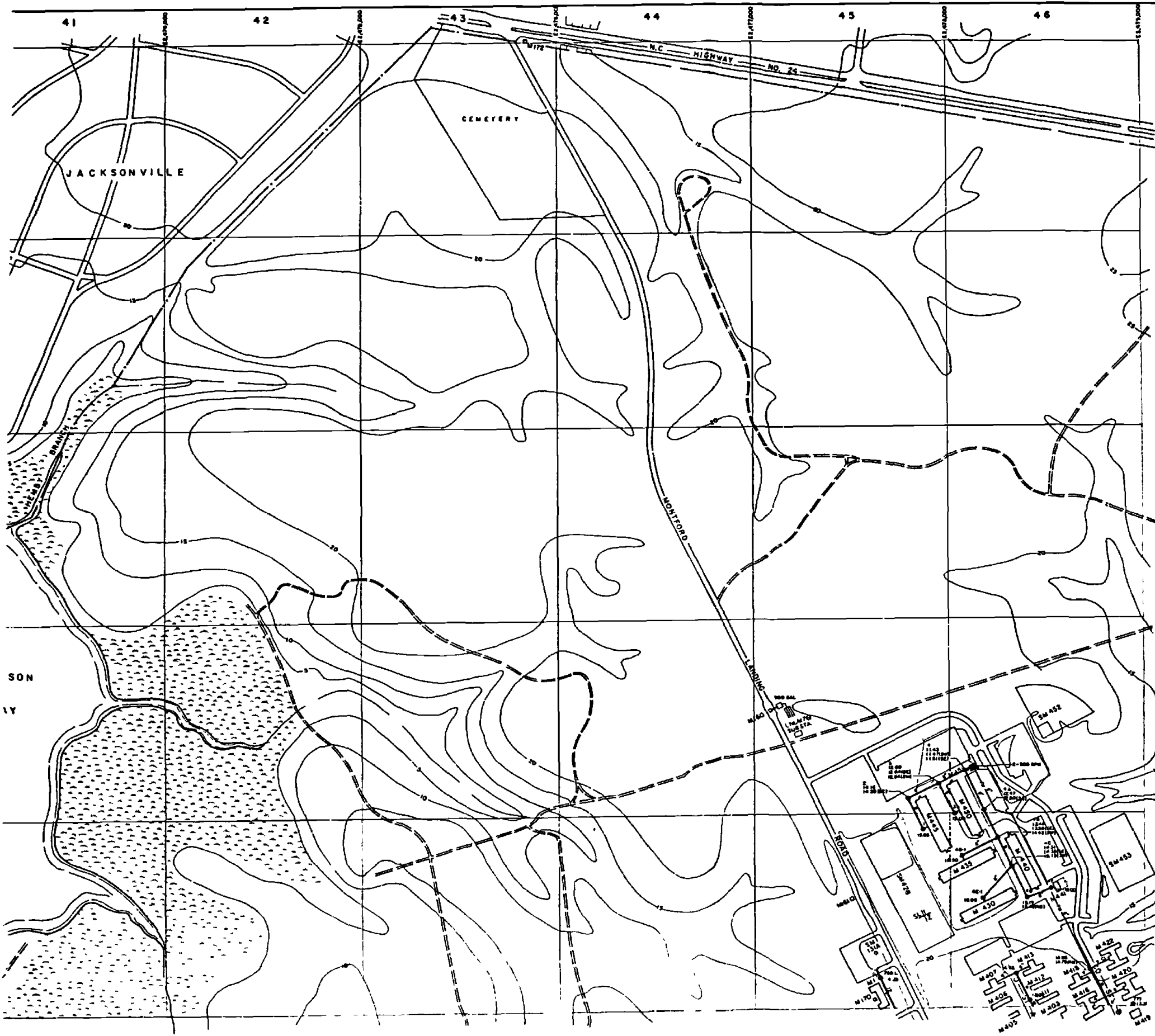
DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE 31 JULY 64 SCALE GRAPHIC SHEET A-3 OF 73

APPROVED / DATE

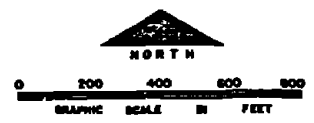
D130Z



LEGEND

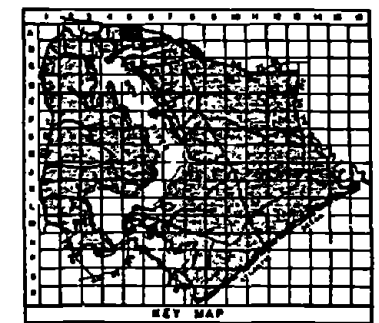
- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unimproved)
- FENCE
- 5' CONTOUR (Source-USGS Maps)
- HELICOPTER LANDING ZONE
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- SEWAGE PUMPING STATION
- SEPTIC TANK AND DRAIN FIELD

NOTE: ALL GRAVITY SEWERS ARE TANK-ON-TANK UNLESS NOTED OTHERWISE



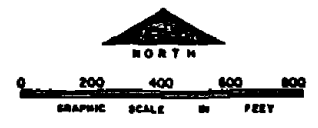
NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE: 31 JULY 64	SCALE: GRAPHIC	SHEET A-4 OF 73	
APPROVED / DATE			

D1312



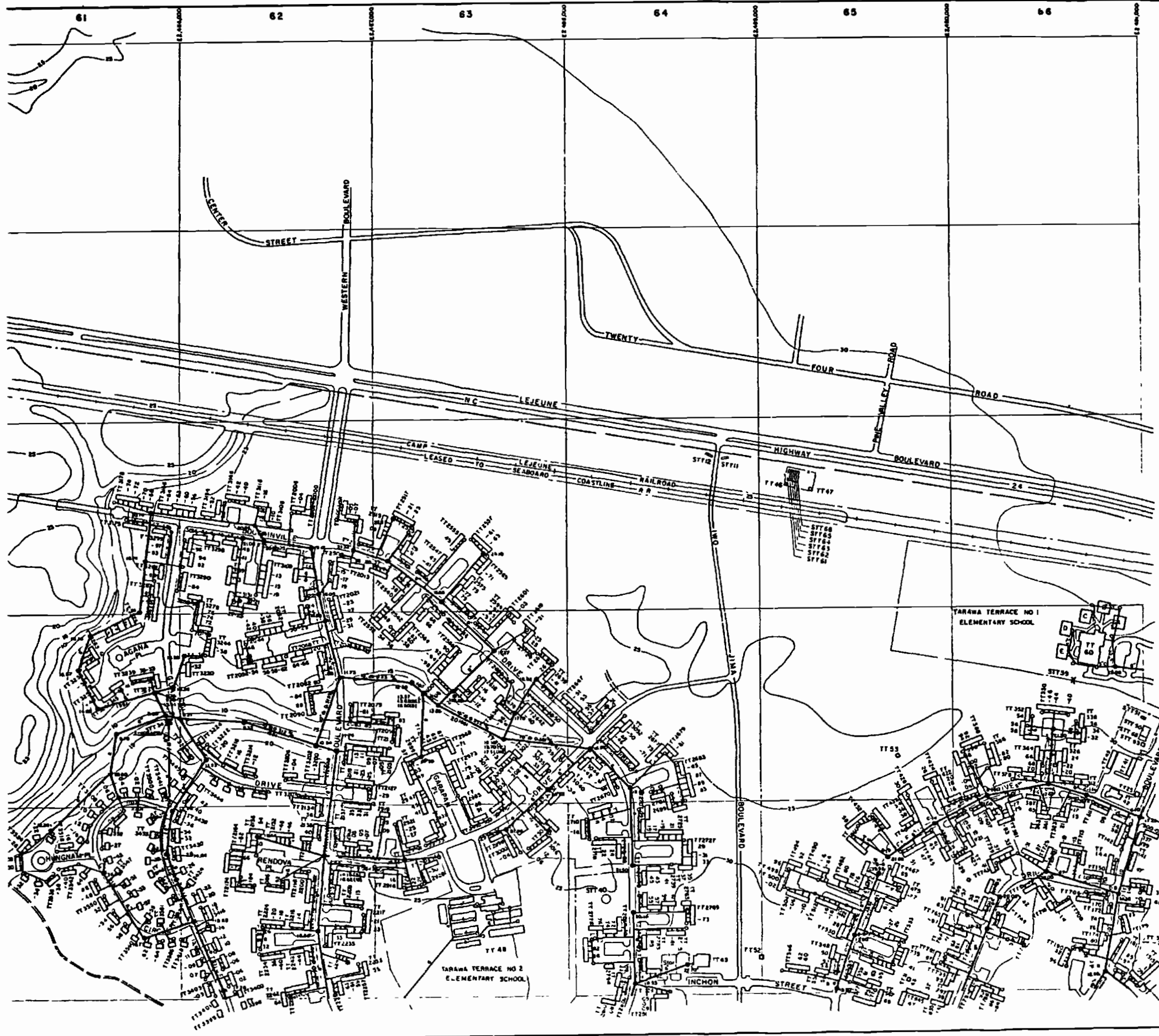
- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source-USGS Maps)
 - RESERVATION BOUNDARY
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - ABANDONED IN PLACE
 - OIL/WATER SEPARATOR

NOTES:
ALL GRAVITY SEWERS ARE TERRA COTTA UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	INT.
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 68	SCALE GRAPHIC	SHEET A-5 OF 73	
APPROVED / DATE			

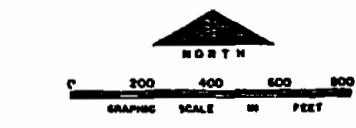
D1322



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - RESERVATION BOUNDARY
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION

MATERIAL OF CONSTRUCTION
 61 - EARLY 1960s

NOTES:
 ALL SANITARY SEWERS ARE TYPICAL 8" UNLESS NOTED OTHERWISE
 ALL SERVICE LINES ARE 4" UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

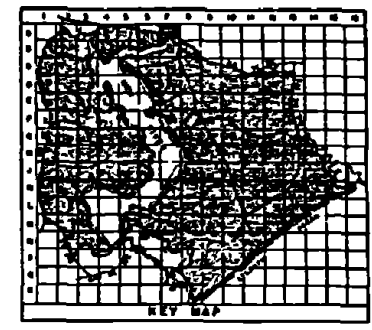
WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE 31 JUL 70 SCALE GRAPHIC SHEET A-6 OF 73

APPROVED / DATE

D133Z

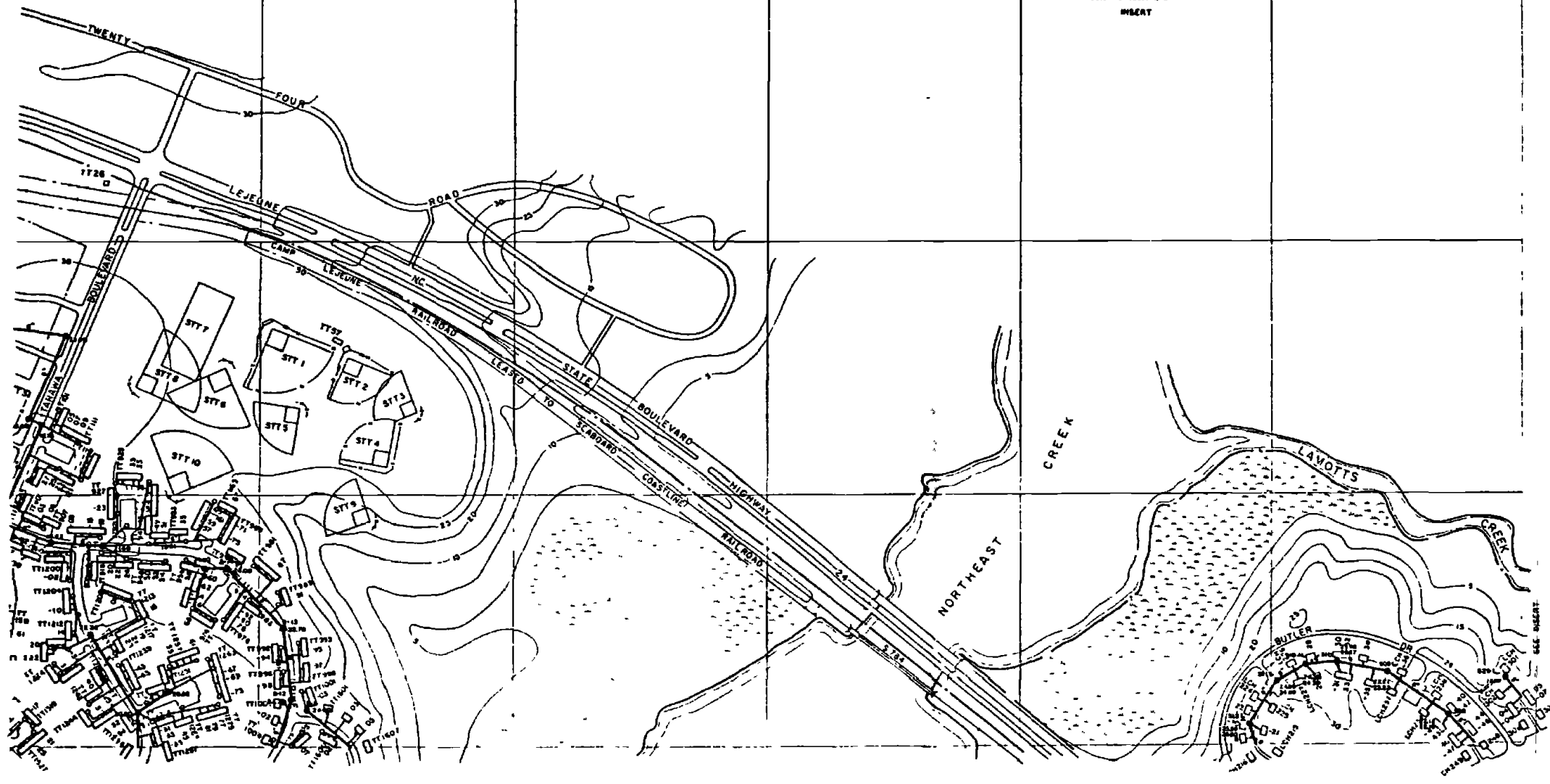
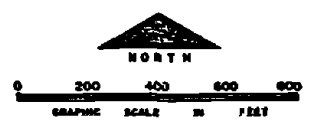
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LEGEND

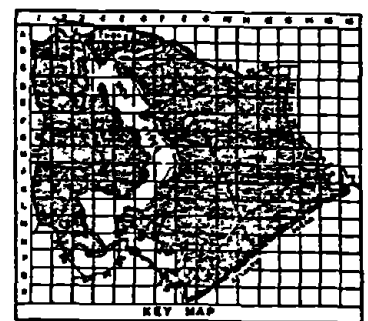
- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source USGS Map)
- RESERVATION BOUNDARY
- DUMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE

NOTES:
 ALL HEIGHTS GIVEN ARE TERMS OF THE USGS
 MAPS FROM WHICH
 ALL SERVICE LINES IN AREAS TT 100 - TT 1000 ARE
 6" UNLESS NOTED OTHERWISE.



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 54	SCALE GRAPHIC	SHEET A-7 OF 73	
APPROVED / DATE	000000+2		

D1342



LEGEND

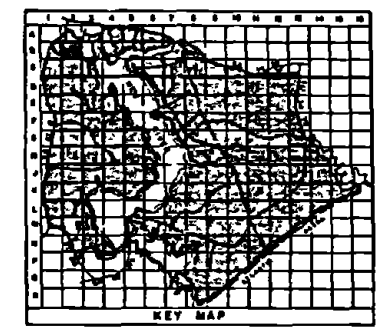
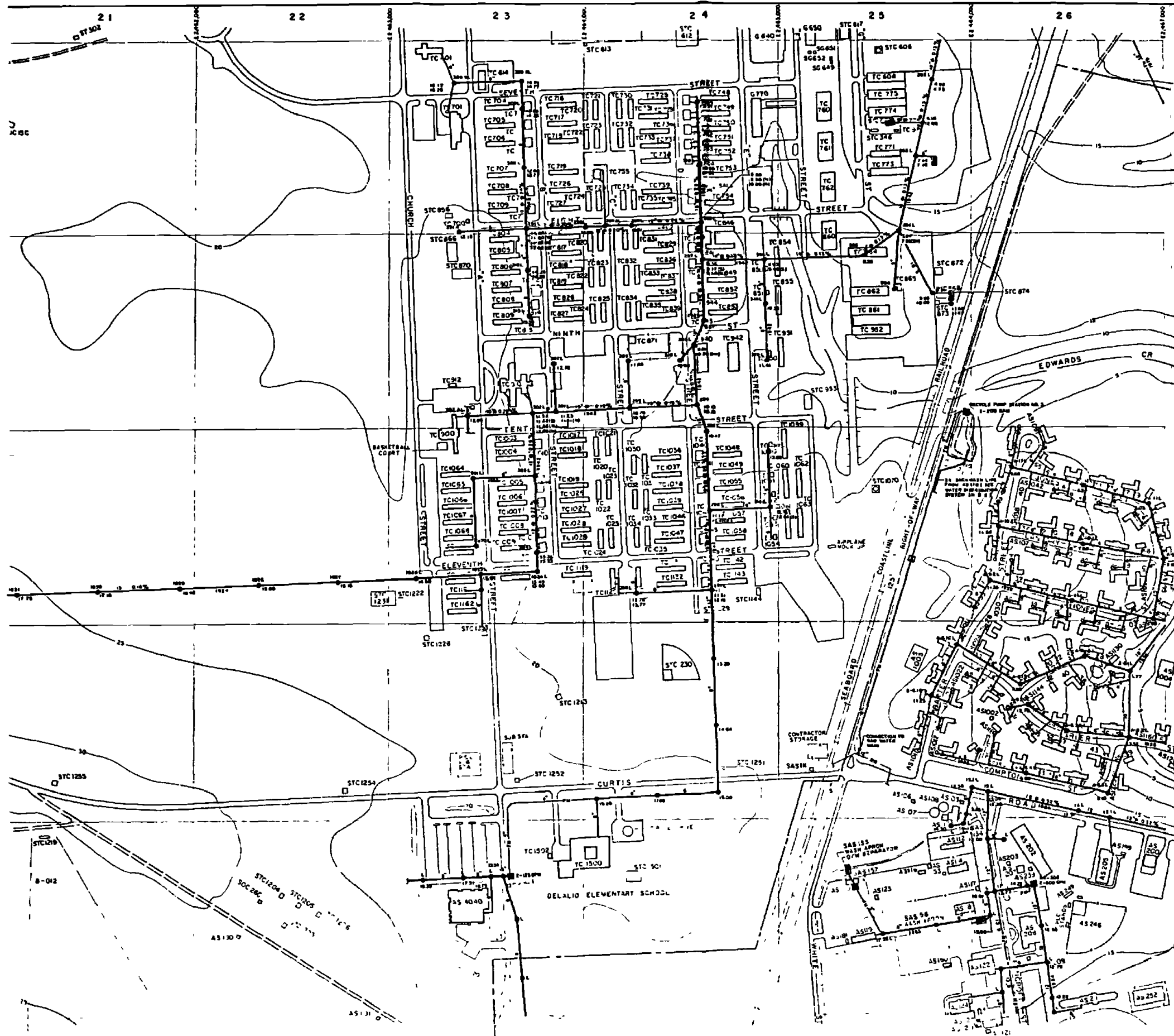
- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- RESERVATION BOUNDARY
- 5' CONTOUR (Source - USGS Maps)
- SANITARY SEWER
- MANHOLE
- SEWAGE PUMPING STATION
- SERVICE LINE

NOTES:
 ALL SANITARY SEWERS AND TRENCHES SHOWN
 LISTED STRUCTURES
 PUMPING STATION NOT IN SERVICE.



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE: 31 JULY 64	SCALE: GRAPHIC	SHEET: B-1 OF 73	
APPROVED: DATE	00000043		

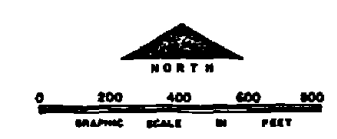
D1352



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source-USGS Maps)
 - AIR STATION BOUNDARY
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - OIL/WATER SEPARATOR

MATERIAL OF CONSTRUCTION
 OF EAST SIDE
 OF CURTIS ST.

NOTES:
 ALL QUANTITY FIGURES ARE TERMS GIVEN UNLESS
 NOTED OTHERWISE
 ALL SERVICE LINES IN 1000 & 1100 AREAS ARE 4"
 UNLESS NOTED OTHERWISE



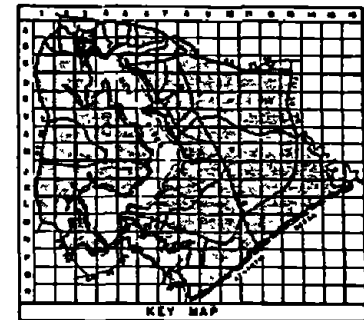
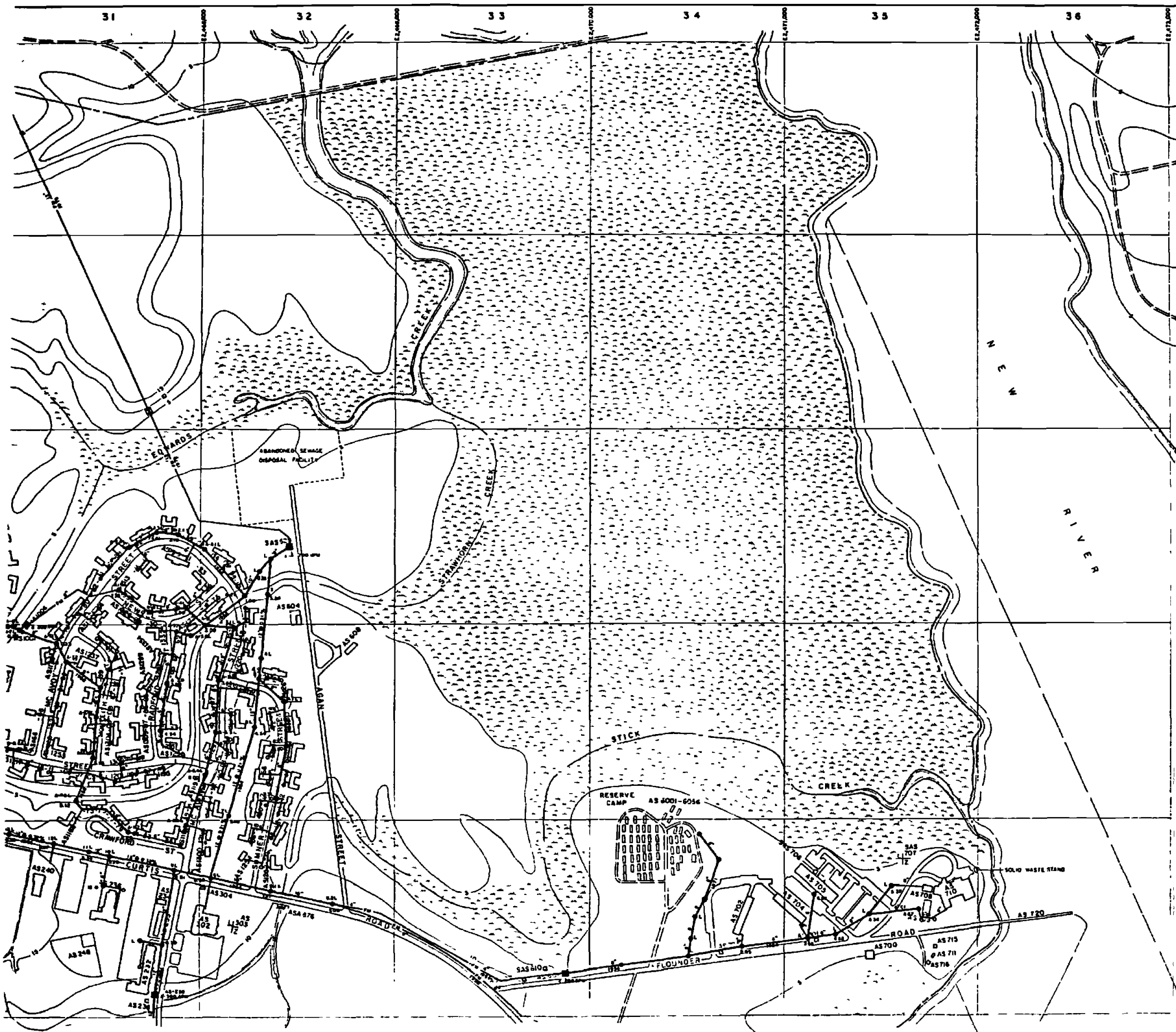
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

**WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS**

DATE 31 JULY 46 SCALE GRAPHIC SHEET B-2 OF 73
 APPROVED / DATE *ccccccff*

D1362



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- HELICOPTER LANDING ZONE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- AIR STATION BOUNDARY
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- SEWAGE PUMPING STATION
- AIR RELEASE VALVE

MATERIAL OF CONSTRUCTION
 ST - CAST IRON

NOTES:
 ALL GRAVITY SEWERS ARE TYPED WITH UNLESS NOTED OTHERWISE.
 ALL FORCE MAINS IN 1000 & 1500 AREAS ARE 4" UNLESS NOTED OTHERWISE.

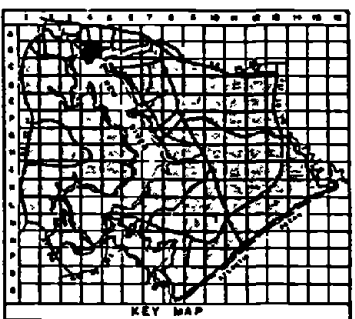
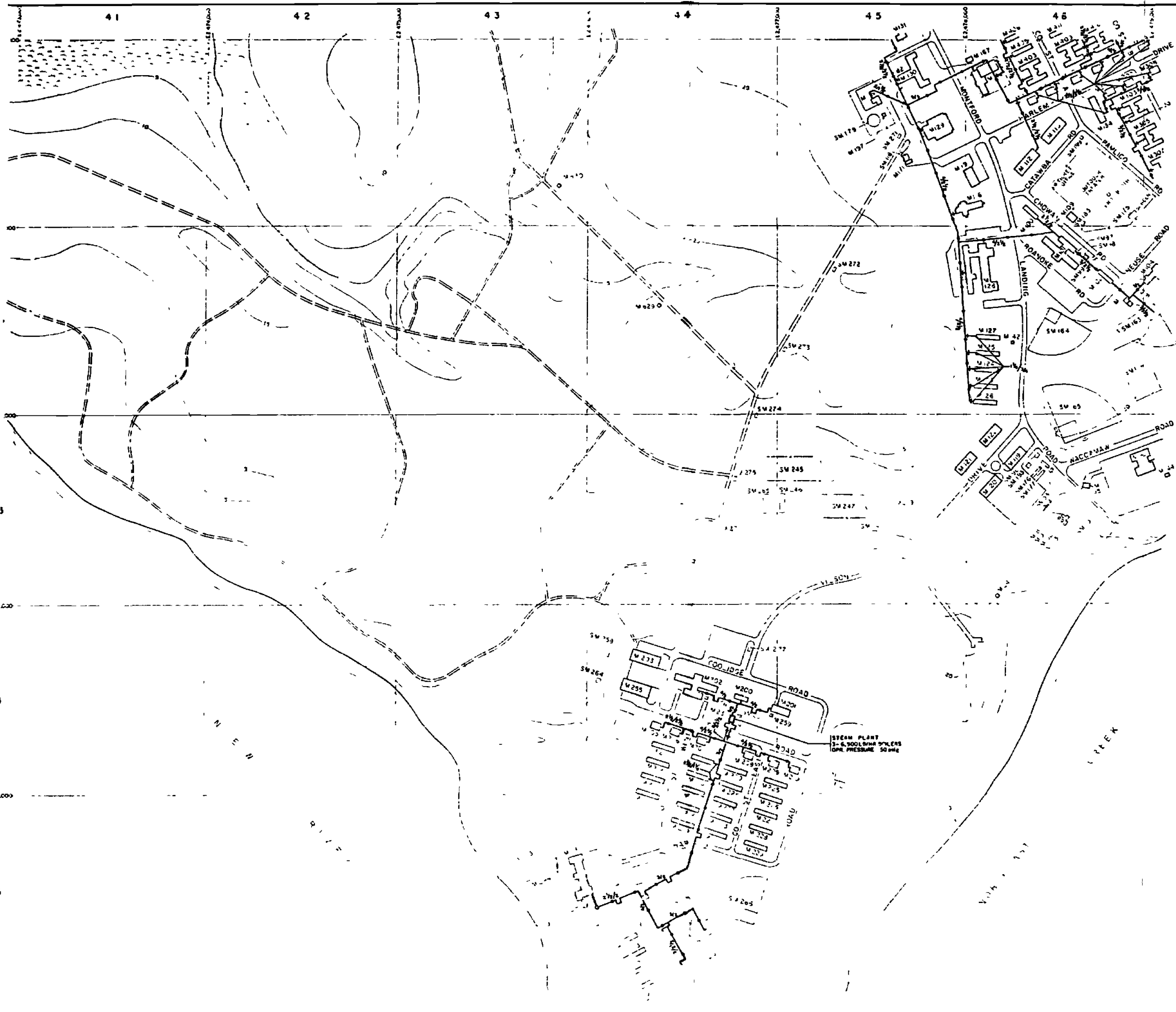


NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

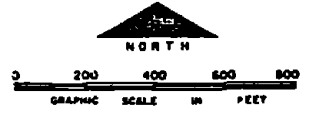
DATE: 21 JULY 84 SCALE: GRAPHIC SHEET: B-3 of 73
 APPROVED / DATE: *cc0000 45*



LEGEND

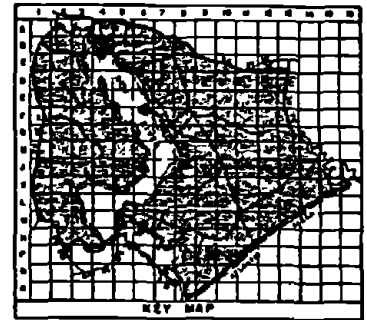
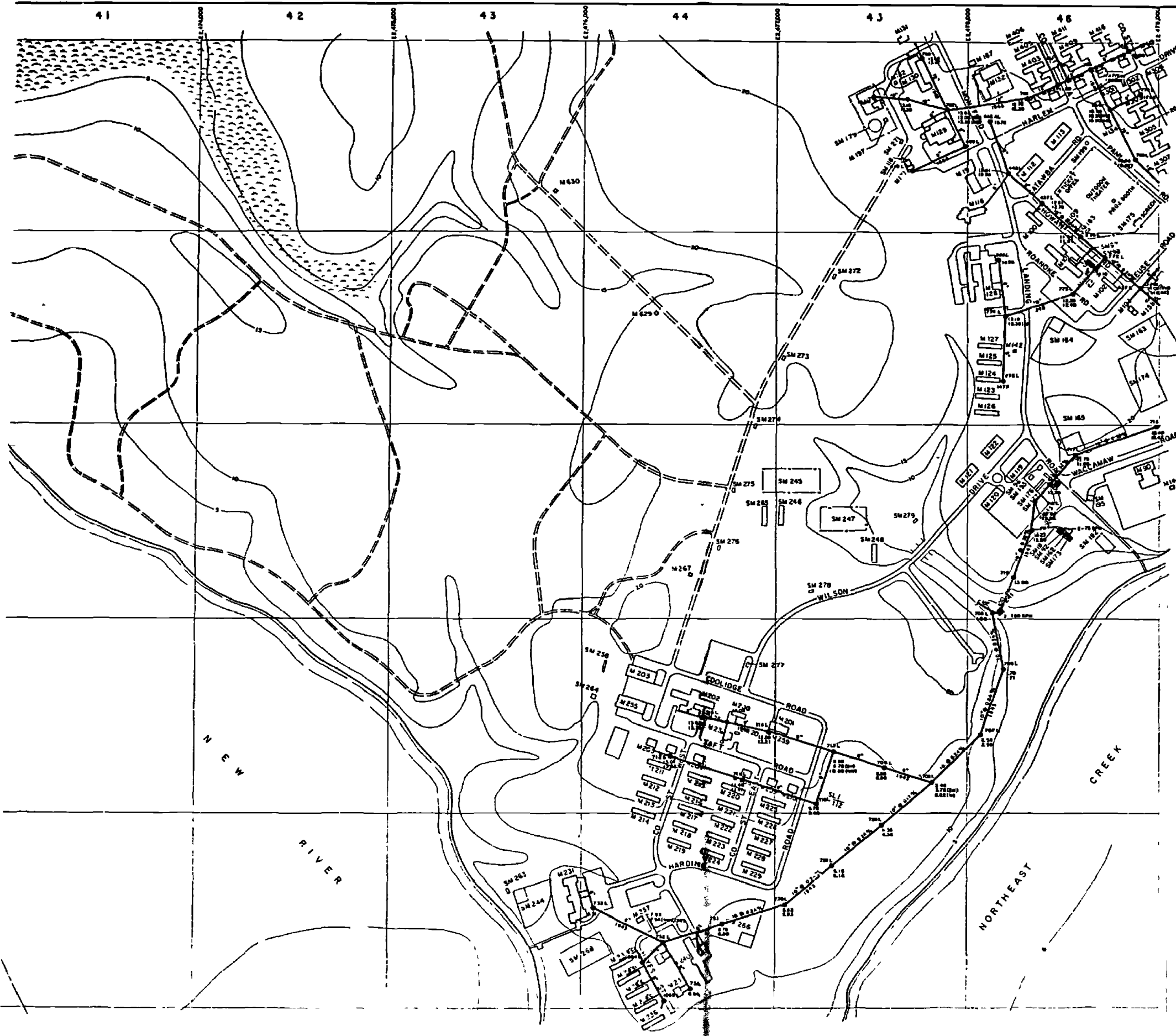
- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (USGS)
- IMPACT ZONE
- SWAMP OR MARSH
- UNDERGROUND MAIN - DIRECT BURIAL
- ABOVE GROUND MAIN
- VALVE
- EXPANSION LOOP
- ELBOW TURNED DOWN

NOTES
 ALL STEAM PIPING IS SCHEDULE 80 STEEL. CONDENSATE PIPING IS SCHEDULE 40 STEEL UNLESS NOTED OTHERWISE.
 ALL LATERALS TO BUILDINGS ARE 1 1/2" STEAM SUPPLY AND 3/4" CONDENSATE RETURN UNLESS NOTED OTHERWISE.
 PIPE SCHEDULES THICKNESS AND TYPE: STEAM AND CONDENSATE - 1 1/2" TO 2" ABSORBER OR CALORIM BULBATE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
STEAM/CONDENSATE DISTRIBUTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 84	SCALE GRAPHIC	SHEET B-4 OF 73	
APPROVED / DATE			

D1382



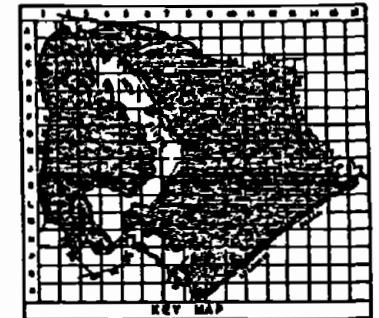
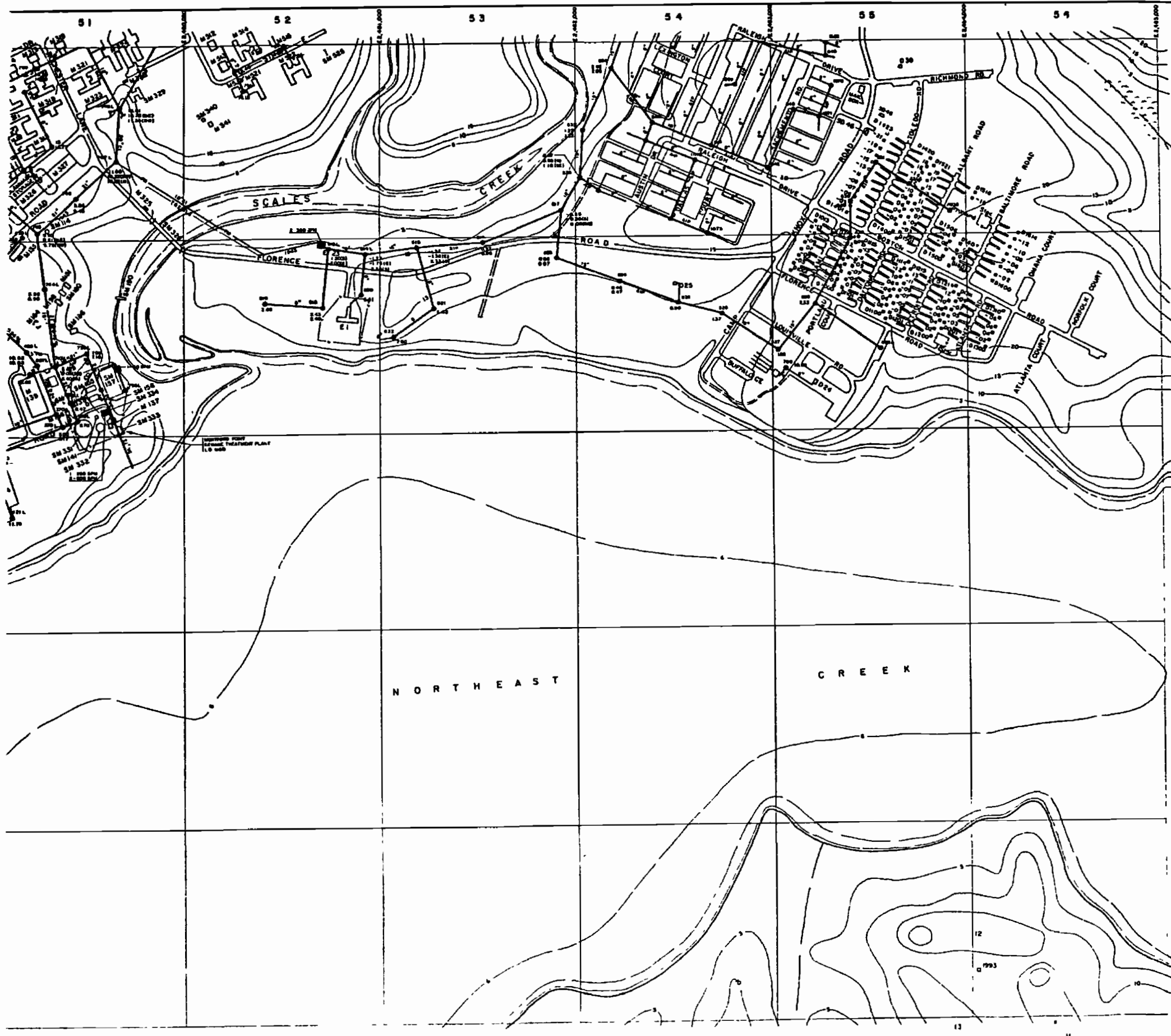
- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (USGS)
 - IMPACT ZONE
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - SEWAGE PUMPING STATION
 - FORCE MAIN
 - OIL/WATER SEPARATOR

NOTES: 1. ALL DIMENSIONS ARE TAKEN UNLESS OTHERWISE SPECIFIED



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 24 JUL 64	SCALE GRAPHIC	SHEET B-4 of 73	
APPROVED/DATE	00000016		

D1392



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source—USGS Maps)
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - SEPTIC TANK AND DRAIN FIELD
 - JUNCTION BOX
 - ABANDONED IN PLACE
 - OIL/WATER SEPARATOR

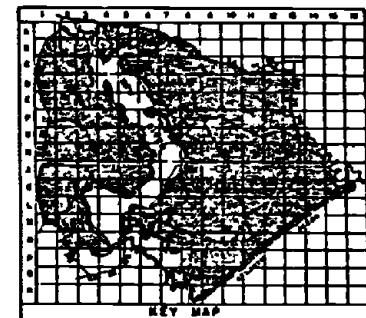
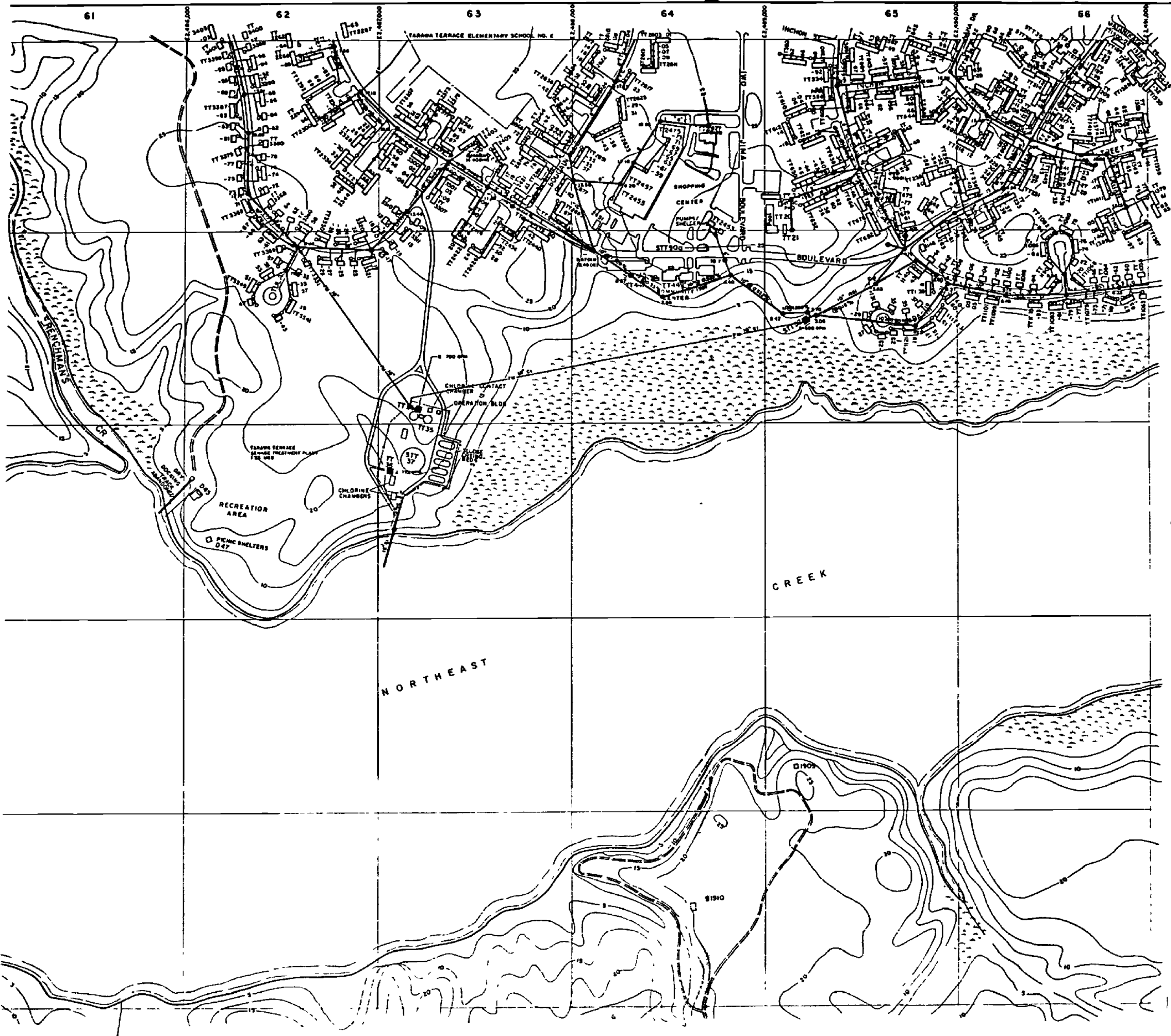
SPECIAL OF CONSTRUCTION
 CI - CAST IRON
 VC - VITRIFIED CLAY

 NOTES:
 ALL SANITARY SEWERS ARE TYPICAL UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE: 24 JULY 64	SCALE: GRAPHIC	SHEET B-5 OF 73	
APPROVED: DATE	00000047		

D140Z

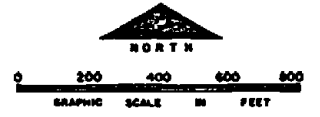


LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- SEWAGE PUMPING STATION

INTERNAL OF CONSTRUCTION
 CI - CAST IRON
 VC - VITRIFIED CLAY

NOTES
 ALL QUANTITY SEWERS AND TRENCHES UNLESS NOTED OTHERWISE
 ALL SERVICE LINES ARE 6" UNLESS NOTED OTHERWISE



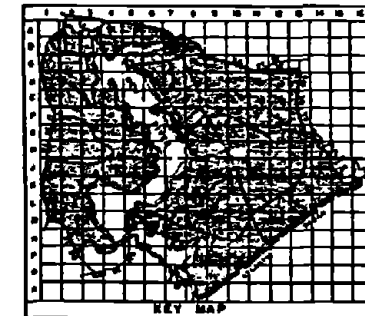
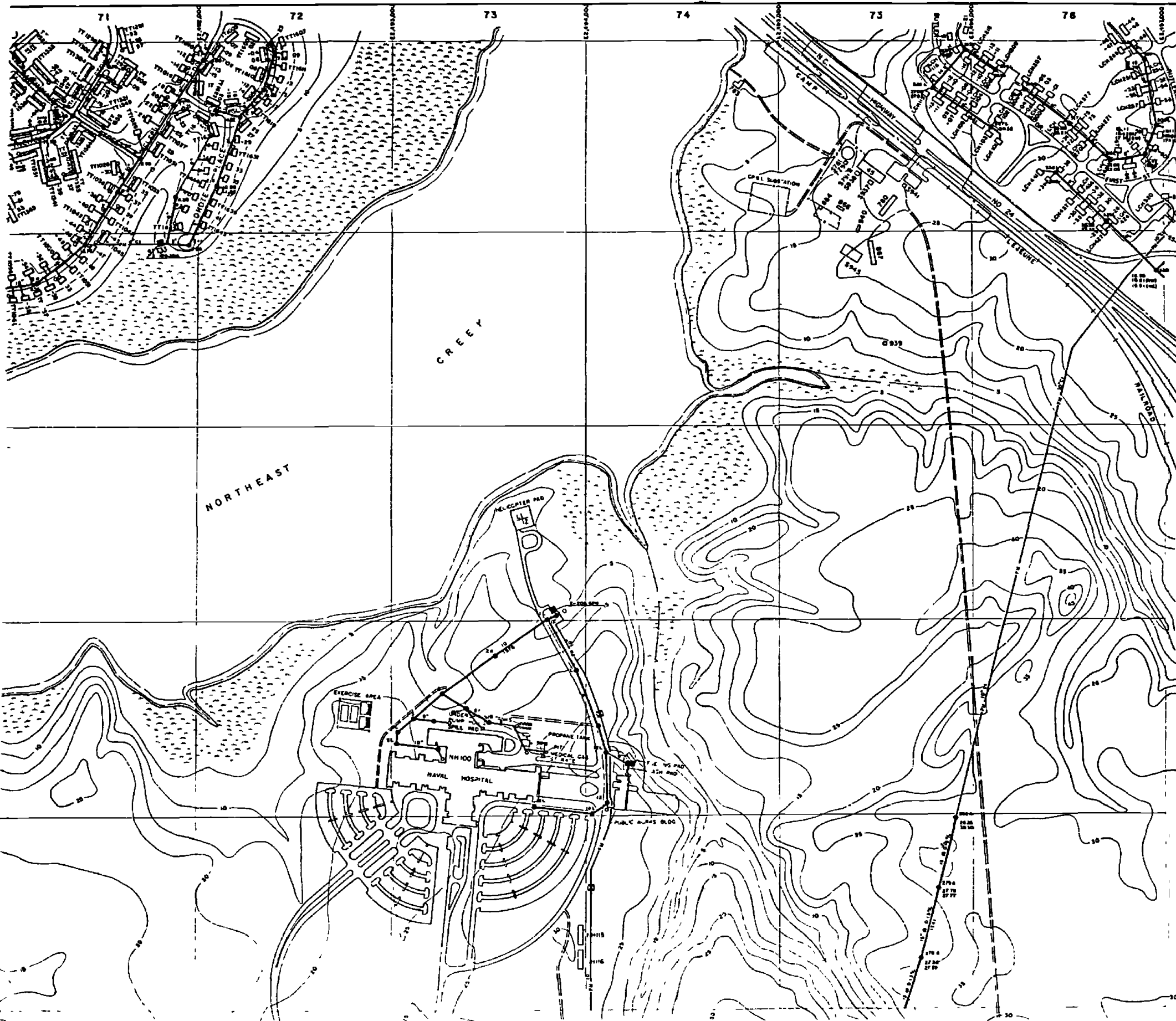
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE: 31 JULY 64 SCALE: GRAPHIC SHEET B-6 OF 73
 APPROVED / DATE: 00000048

D141Z

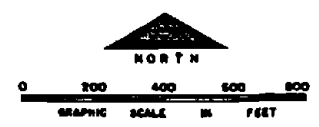


LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unimproved)
- FENCE
- CONTOUR (Source-USGS Maps)
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- AIR RELEASE VALVE
- SEWAGE PUMPING STATION
- OIL/WATER SEPARATOR

MATERIAL OF CONSTRUCTION
 01 - CAST IRON

NOTES:
 ALL DIMENSIONS GIVEN ARE TYPICAL UNLESS NOTED OTHERWISE
 ALL SERVICE LINES IN AREAS 17 000-17 100 ARE 8" UNLESS NOTED OTHERWISE.



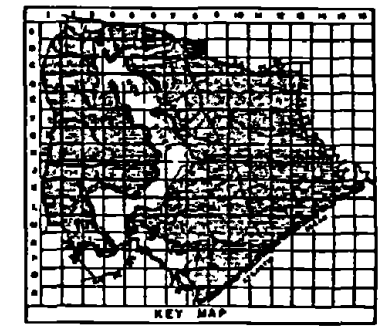
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJUNE, NORTH CAROLINA

**WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS**

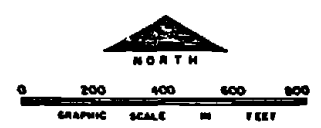
DATE 31 JULY 64	SCALE GRAPHIC	SHEET B-7 OF 73
APPROVED: DATE 000000/69		

D142Z



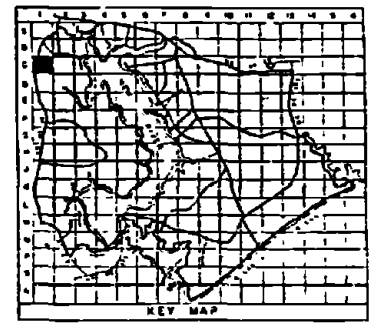
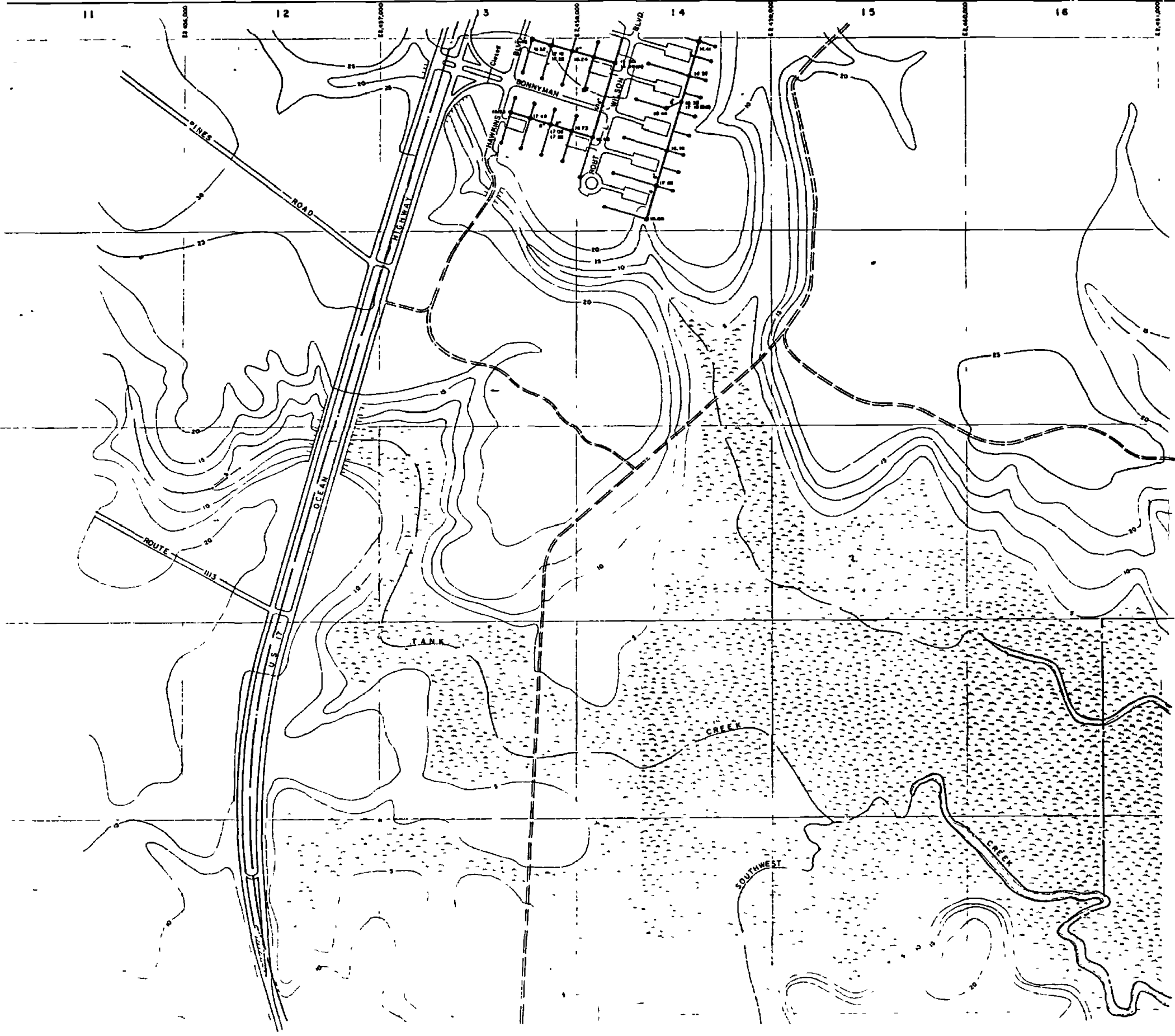
- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - RESERVATION BOUNDARY
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - ABANDONED IN PLACE

NOTE: ALL HEIGHTS REFER TO FEET UNLESS NOTED OTHERWISE

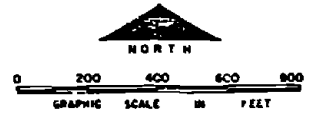


NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 64	SCALE GRAPHIC	SHEET 8-8 OF 73	
APPROVED / DATE	000000 53		

D1432

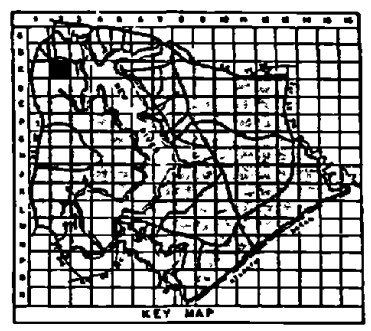
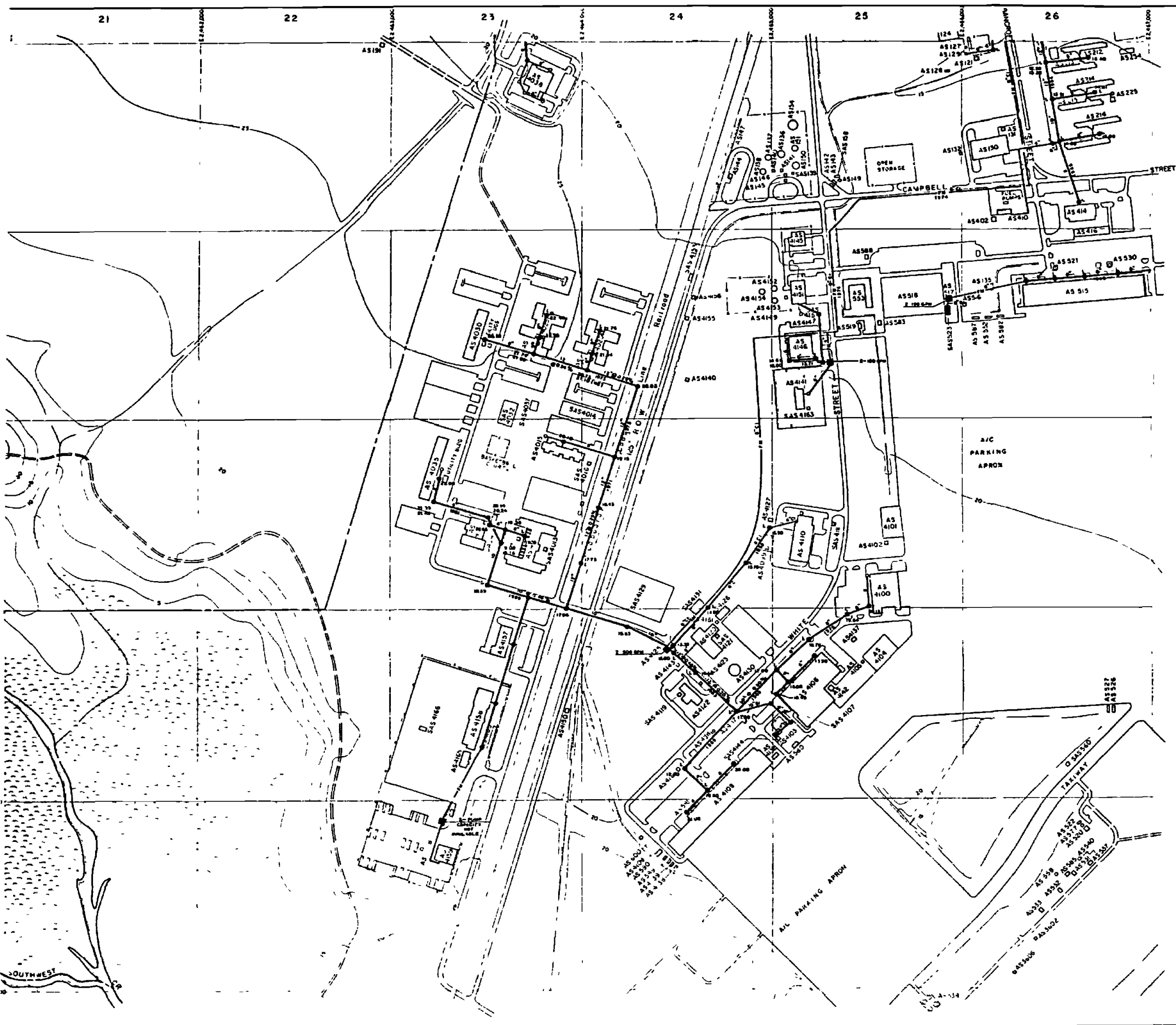


- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source-USGS Maps)
 - AIR STATION BOUNDARY
 - RESERVATION BOUNDARY
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE



NO.		DESIGN OR DIVISION
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA		
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS		
DATE	BY	SCALE
3-78	31 JULY 88	1"=100'
APPROVED	BY	DATE

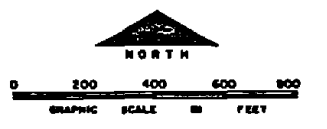
D 1442



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unimproved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - AIR STATION BOUNDARY
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - OIL/WATER SEPARATOR

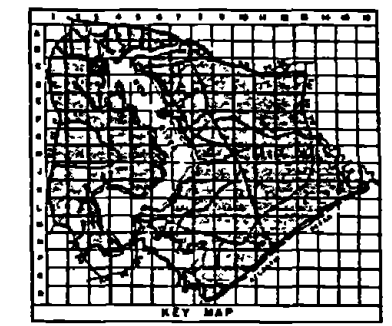
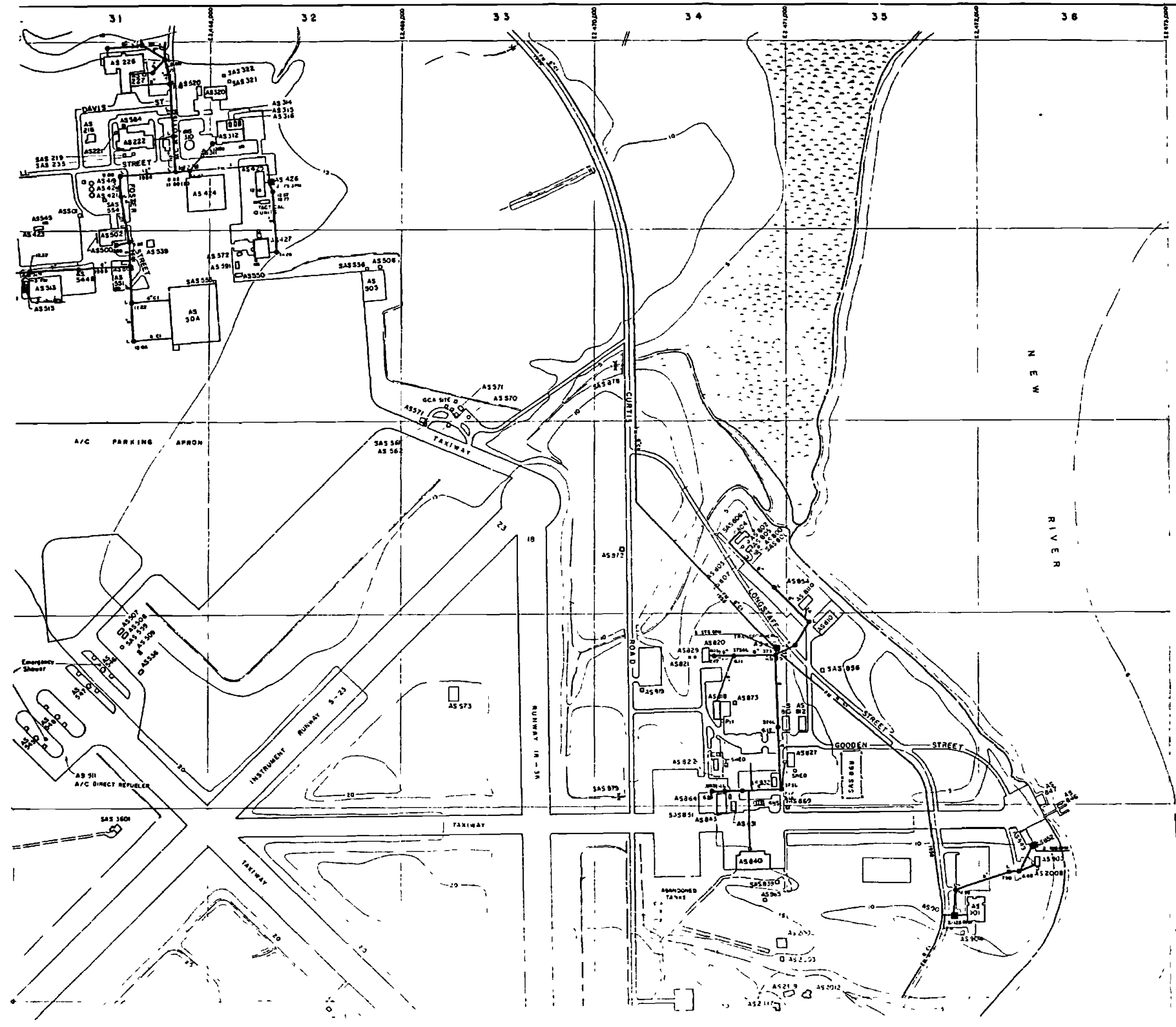
MATERIALS OF CONSTRUCTION
 CI - CAST IRON
 SM - SCHEDULE IRON

NOTES
 ALL DROPPY SEWERS ARE TYPED UNLESS NOTED OTHERWISE.



NO.	DESCRIPTION OF DIVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	SCALE	GRAPHIC	SHEET C-2 of 73
APPROVED / DATE	concor 52		

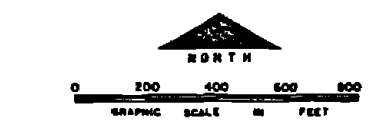
D1452



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source-USGS Maps)
 - AIR STATION BOUNDARY
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - SEPTIC TANK AND DRAIN FIELD

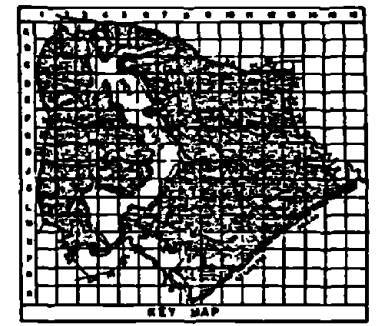
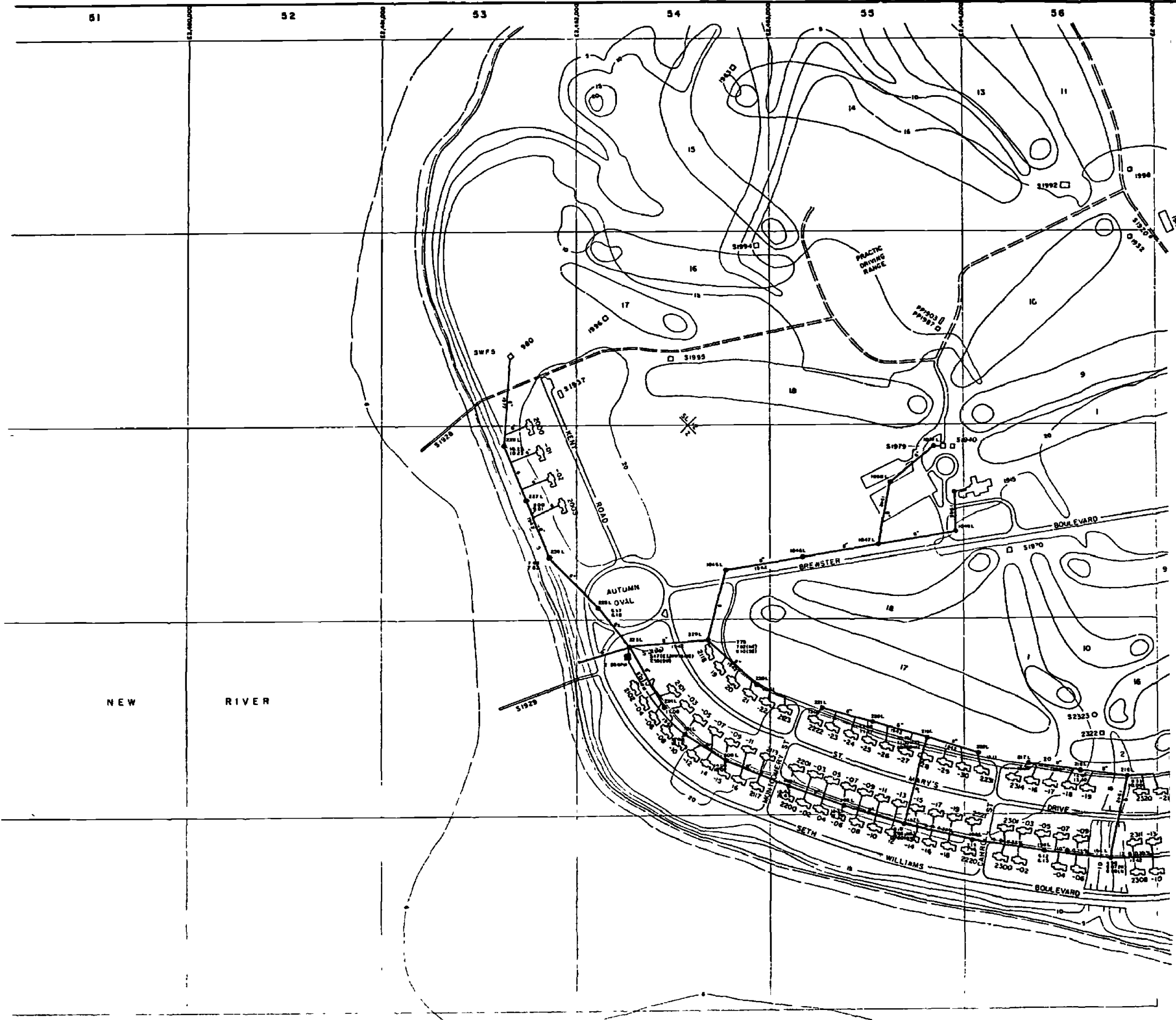
MATERIAL OF CONSTRUCTION
 ST - SAND STONE

NOTES
 ALL GRAVITY SEWERS ARE TYPED WITH UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE: 5 JUL 64	SCALE: GRAPHIC	SHEET C-3 OF 73	
APPROVED: DATE	C00200.53		

D1462

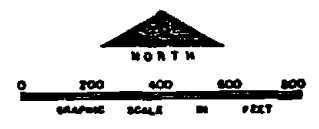


LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Sound-Used Map)
- HELICOPTER LANDING ZONE
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- SEWAGE PUMPING STATION

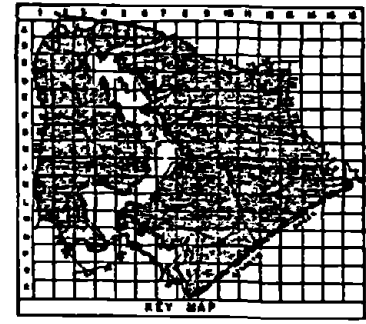
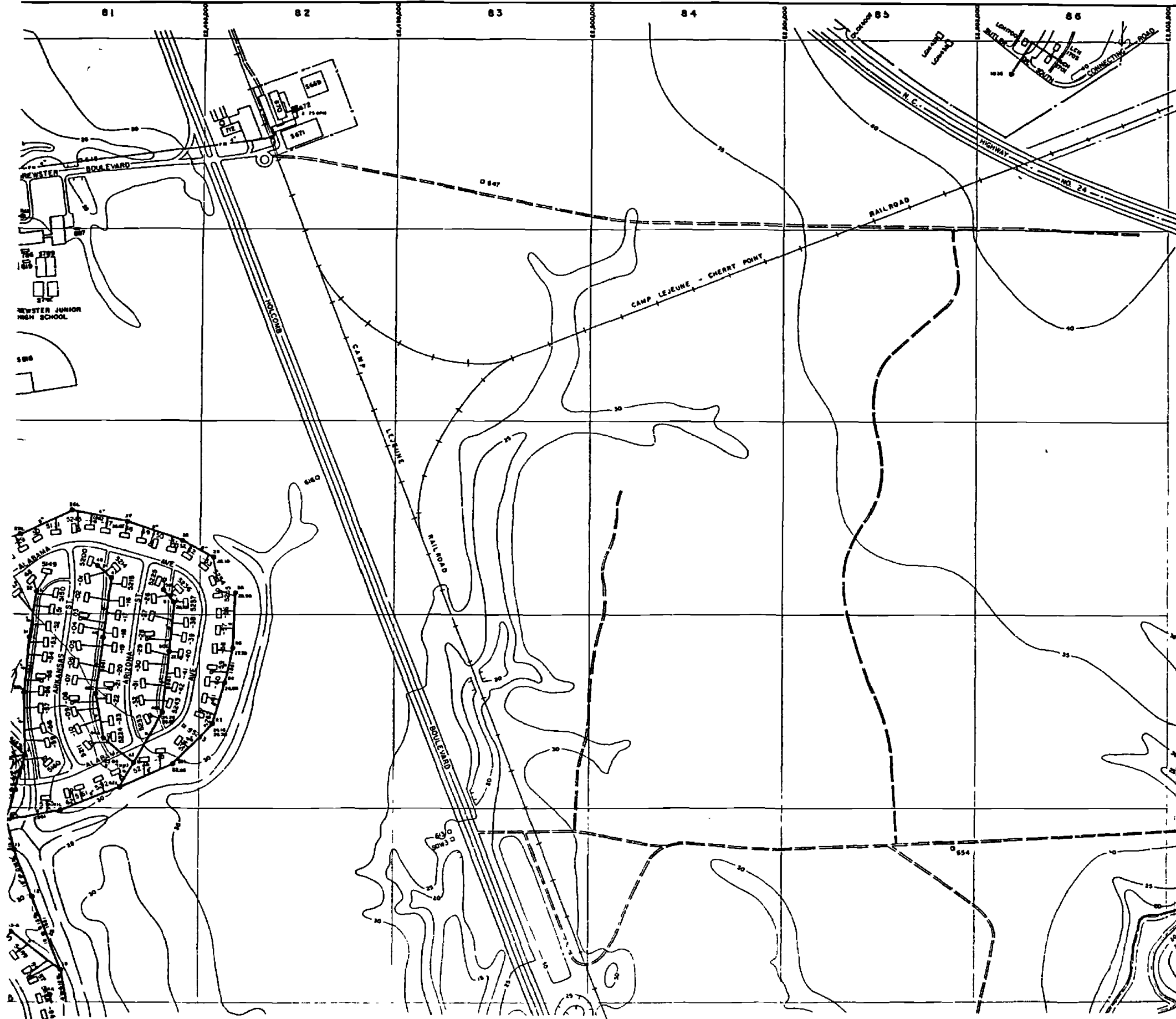
DATE OF CONSTRUCTION
 01 - 04/1964

NOTES:
 ALL SANITARY SEWERS ARE FROM OTHER MAPS
 WITH EXCEPTED
 ALL SERVICE LINES 2000, 2000, 2000 & 2000
 AREAS ARE 6"



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 64	SCALE: GRAPHIC	SHEET C-5 OF 73	
APPROVED / DATE			

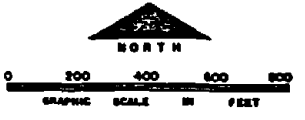
D1472



LEGEND

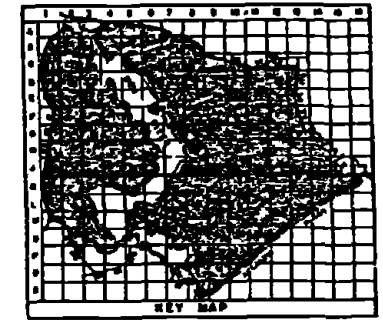
- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Elevation - USNG Map)
- RESERVATION BOUNDARY
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- SEWAGE PUMPING STATION
- SEPTIC TANK AND DRAIN FIELD

NOTES:
 ALL GRAVITY SEWERS ARE TYPICAL 15" DIA. UNLESS NOTED OTHERWISE
 ALL SERVICE LINES IN DWELLING & BARRACKS ARE 4"



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE: 31 JULY 64	SCALE: GRAPHIC	SHEET C-8 OF 73	
APPROVED: DATE	00000057		

D148Z



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Improved)
 - FENCE
 - 5' CONTOUR (Dunn-1000 maps)
 - SANITARY SEWER
 - MANHOLE
 - ABANDONED IN PLACE
 - SERVICE LINE

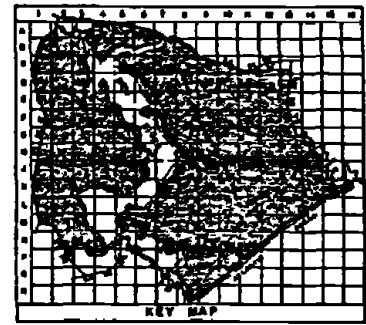
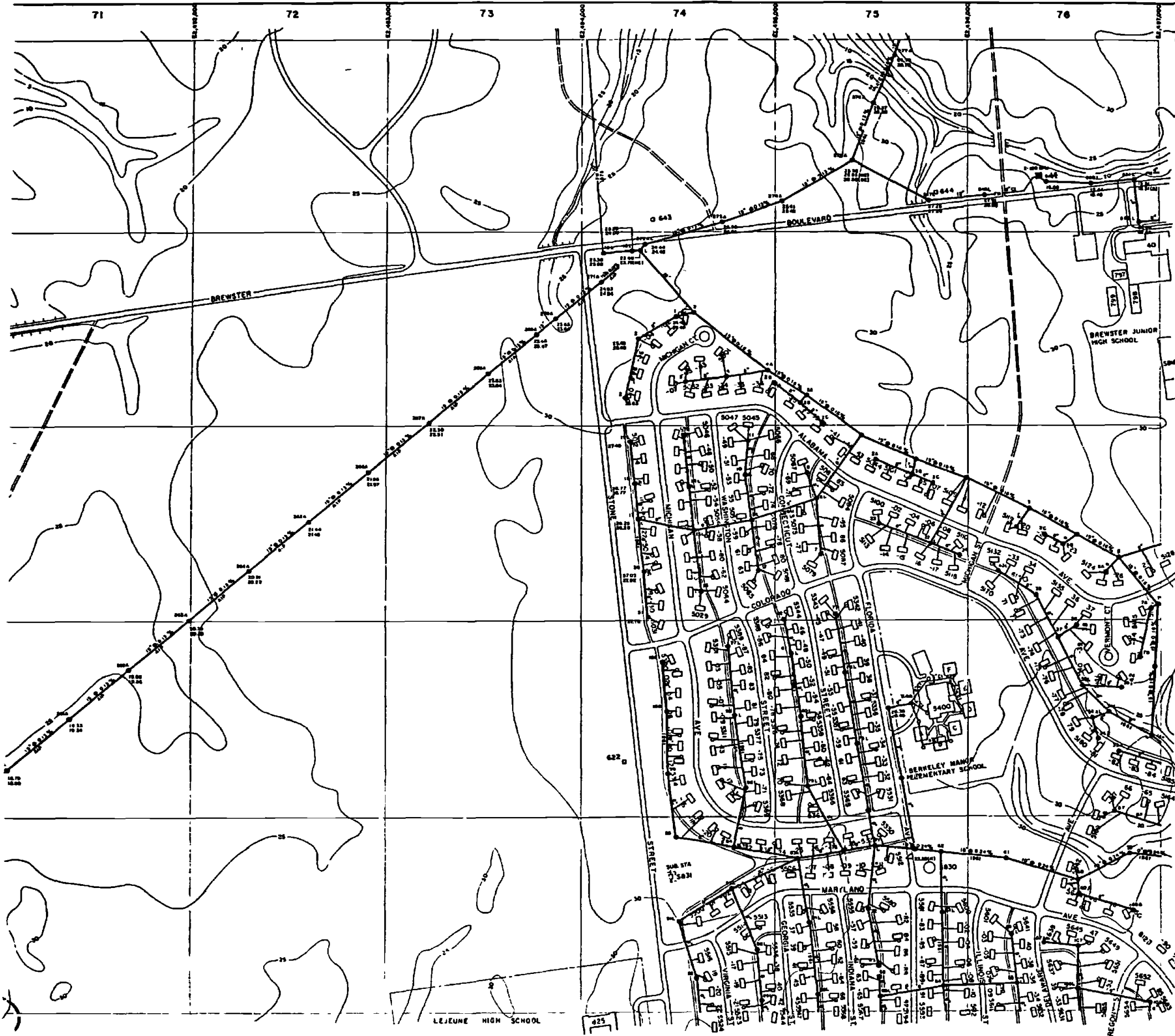
MATERIAL OF CONSTRUCTION
 61 - 60% SAND

NOTES:
 ALL SANITARY SEWERS ARE TYPED WITH UNLESS NOTED OTHERWISE.
 ALL SERVICE LINES ARE 12", 18", 24", 30" & 36" UNLESS NOTED OTHERWISE.



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE: 20 JULY 64	SCALE: GRAPHIC	SHEET C-5 OF 73	
APPROVED: DATE	COCOCOS		

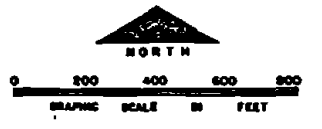
D1492



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Based on 1955 Map)
 - SANITARY SEWER
 - MANHOLE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - SERVICE LINE
 - ABANDONED IN PLACE

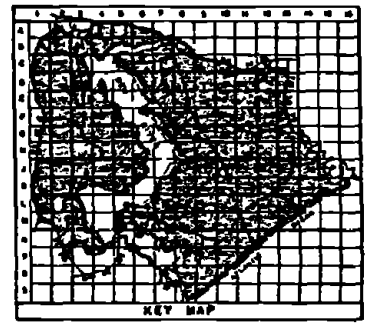
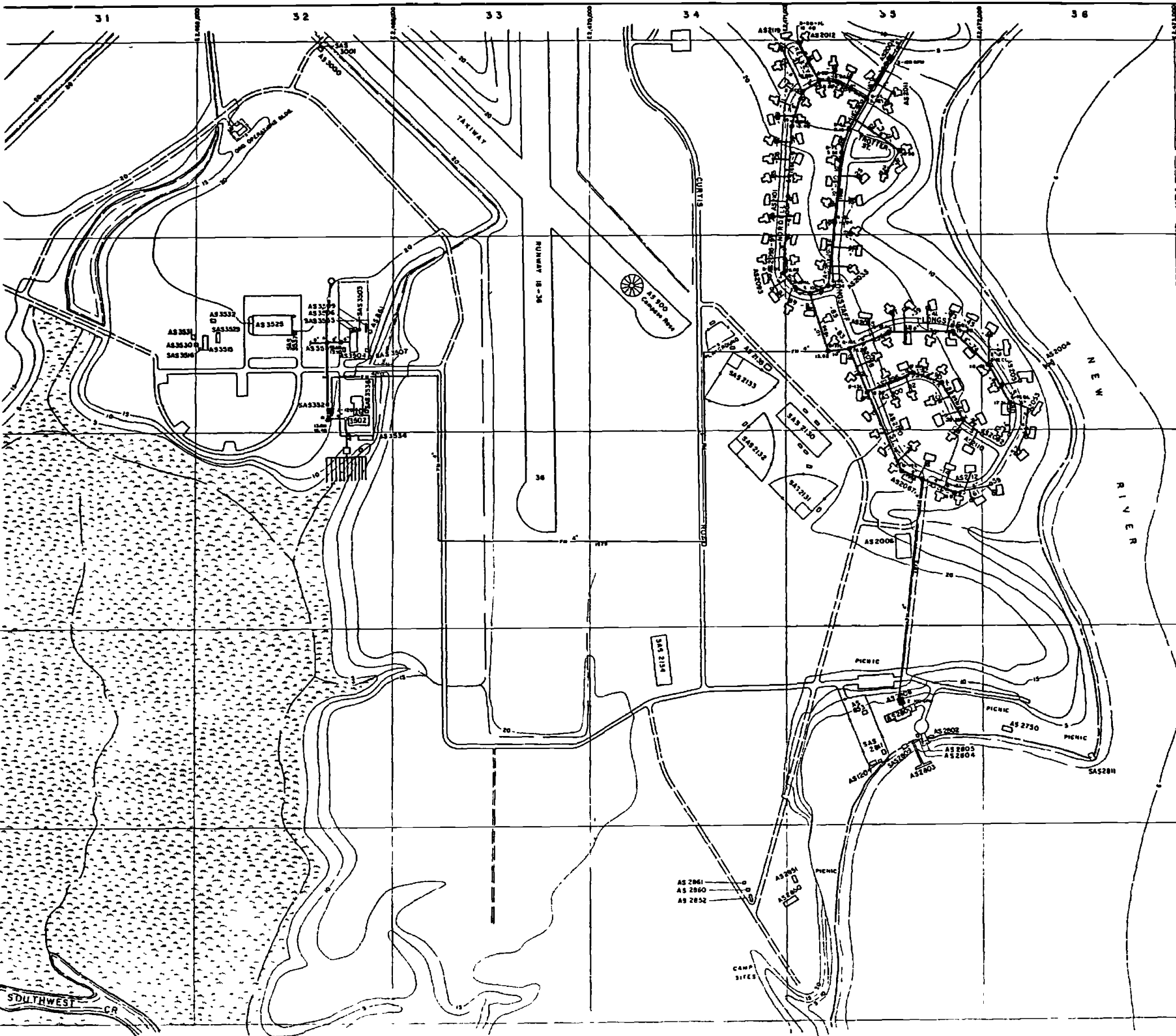
INDICAL OF OBSTRUCTION
 12 - GATE 1004

NOTES:
 ALL SEWER SYSTEMS ARE YEARS AGES UNLESS NOTED OTHERWISE.
 ALL SERVICE LINES IN 2000, 2400, 2600, 2800 & 3000 AREAS ARE 12"



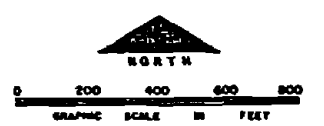
NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	31 JULY 84	SCALE	GRAPHIC
SHEET	C-7	OF 73	
APPROVED/DATE	0000056		

D150Z



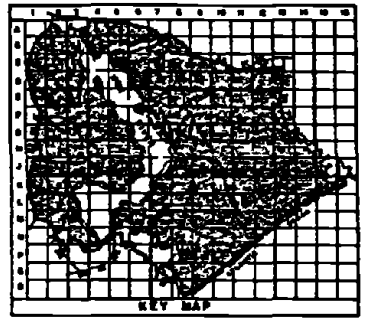
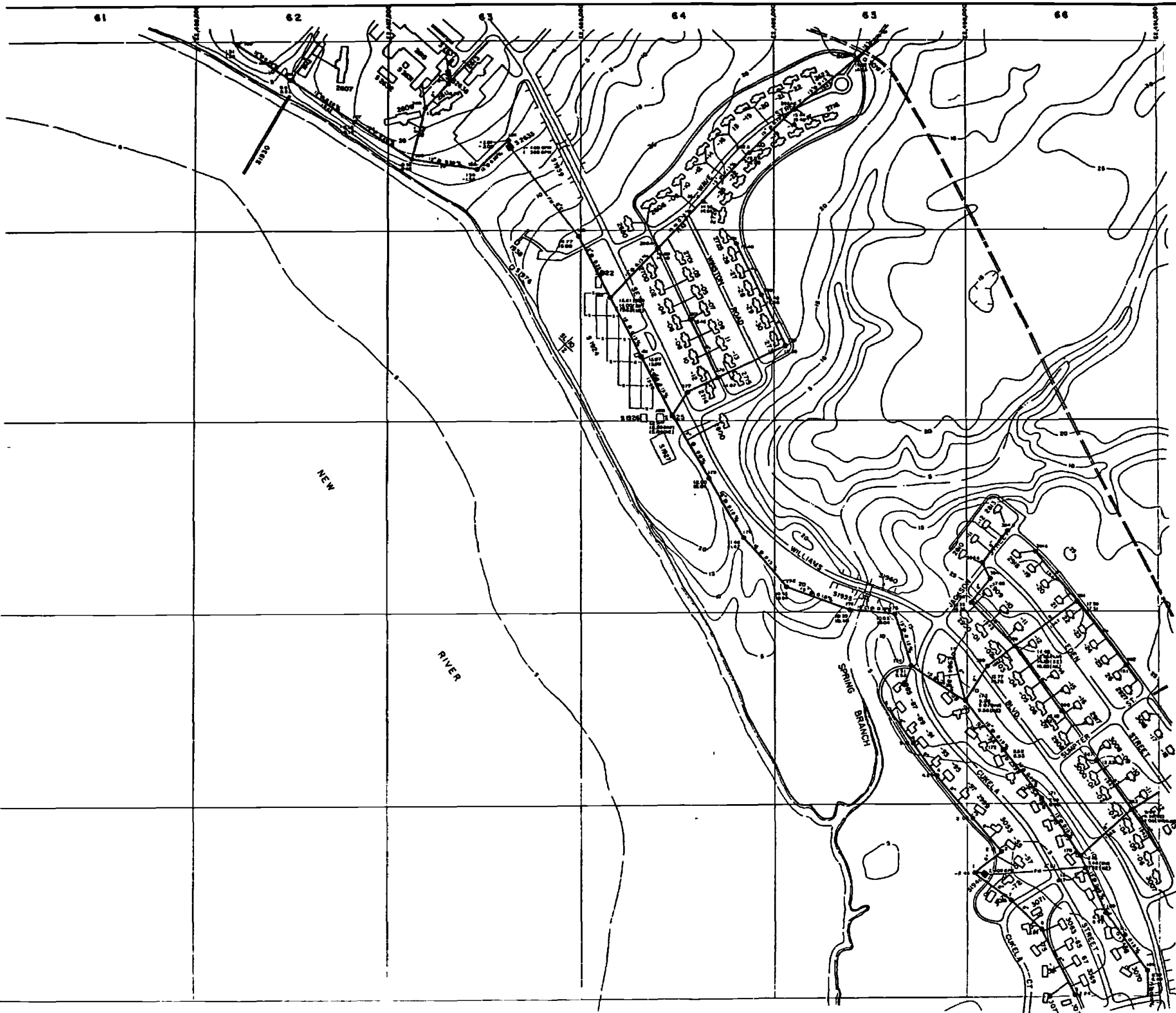
- LEGEND**
- [Symbol] BUILDINGS AND STRUCTURES
 - [Symbol] ROADS AND HIGHWAYS
 - [Symbol] ROADS (Unpaved)
 - [Symbol] FENCE
 - [Symbol] 5' CONTOUR (Source - USGS Maps)
 - [Symbol] AIR STATION BOUNDARY
 - [Symbol] SWAMP OR MARSH
 - [Symbol] SANITARY SEWER
 - [Symbol] MANHOLE
 - [Symbol] SERVICE LINE
 - [Symbol] FORCE MAIN
 - [Symbol] SEWAGE PUMPING STATION
 - [Symbol] SEPTIC TANK AND DRAIN FIELD
 - [Symbol] ABANDONED IN PLACE
 - [Symbol] STORAGE TANK

NOTES
 ALL SERVICE LINES AND TRENCH DEPTH UNLESS NOTED OTHERWISE
 ALL SERVICE LINES IN 1000-2000 AREA ARE 4" UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 64	SCALE GRAPHIC	SHEET D-3 OF 73	
APPROVED / DATE	[Signature]		

D1512



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Same as USGS Map)
 - HELICOPTER LANDING ZONE
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - OIL/WATER SEPARATOR

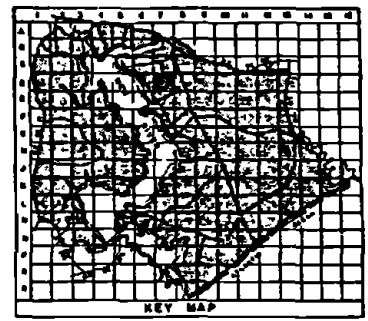
MATERIAL OF CONSTRUCTION
 62 - CAST IRON

NOTES:
 ALL SANITARY SEWERS ARE TYPICAL UNLESS NOTED OTHERWISE.
 ALL SERVICE LINES IN 2000 & 2500 AREAS ARE 4"
 ALL SERVICE LINES IN 3000 & 3700 AREAS ARE 6"



REV.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	SCALE	SHEET	
31 JULY 66	GRAPHIC	D-6 OF 73	
APPROVED	DATE		

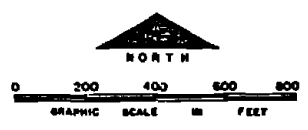
D1522



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unimproved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE

MATERIAL OF CONSTRUCTION
 C - CEMENT

NOTES
 ALL SANITARY SEWERS ARE PERMANENT UNLESS NOTED OTHERWISE.
 ALL SERVICE LINES IN 1000, 1500, 2000, 2500, 3000 & 3500 ARE 4" DIA.



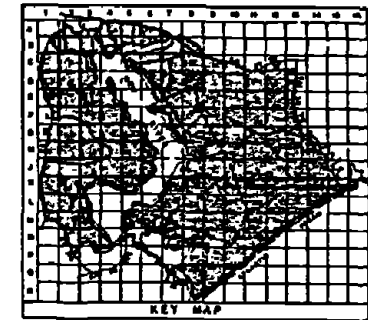
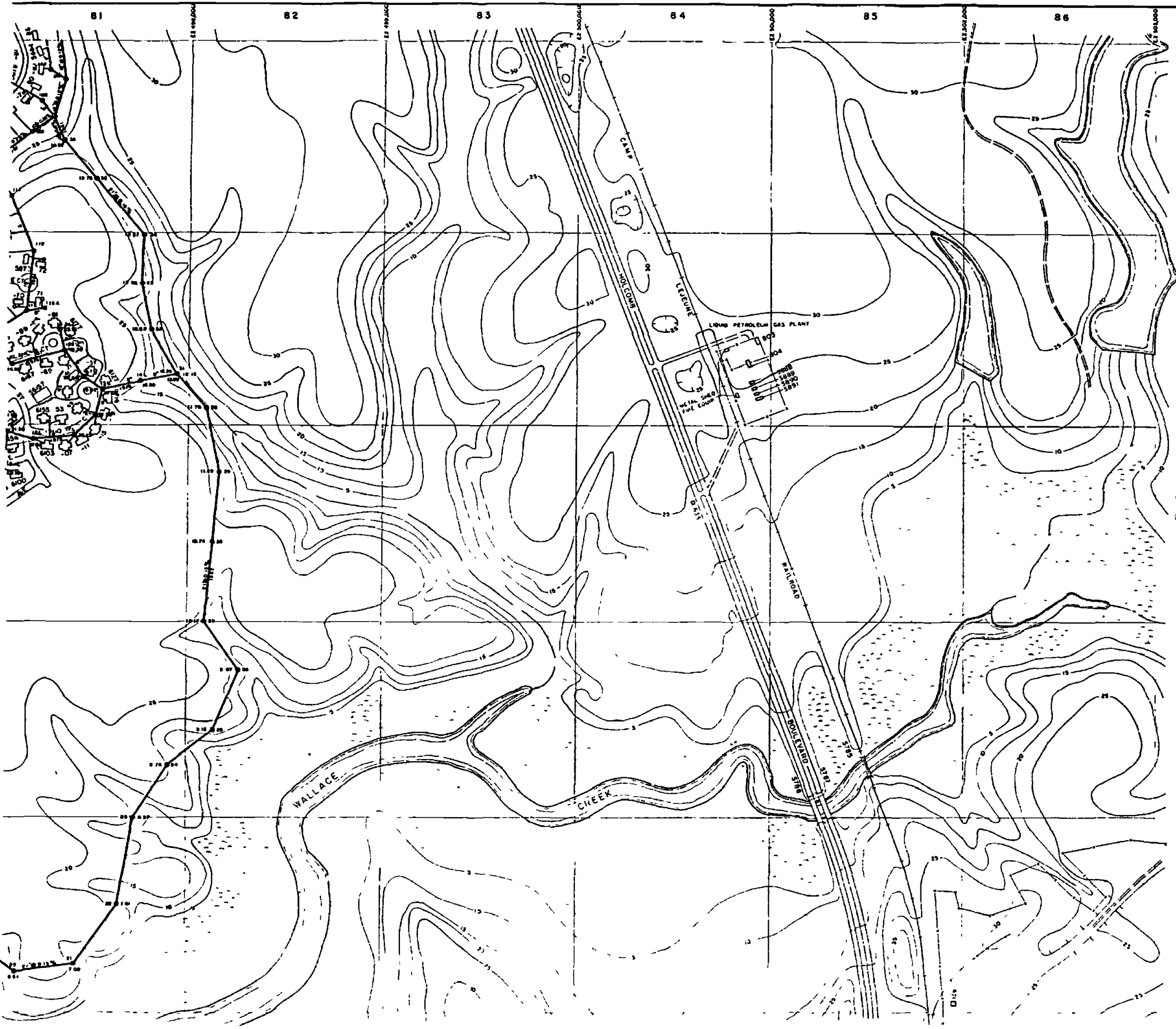
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

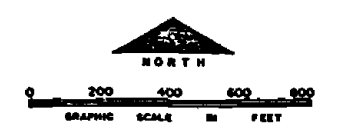
DATE 31 JULY 64 SCALE GRAPHIC SHEET 0-7 OF 73
 APPROVED/DATE

D1532



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unopened)
 - FENCE
 - 5' CONTOUR (Source-USGS Maps)
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE

NOTE:
 ALL DIMENSIONS ARE IN FEET UNLESS
 OTHERWISE NOTED
 ALL SERVICE LINES IN THIS AREA ARE 4"



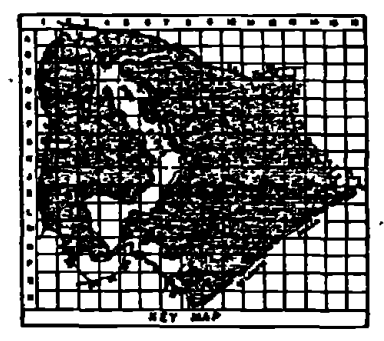
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

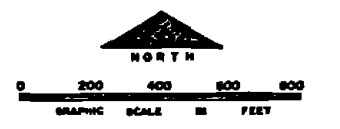
DATE 31 JULY 84 SCALE GRAPHIC SHEET D-8 OF 73
 APPROVED / DATE 000000 61

1542

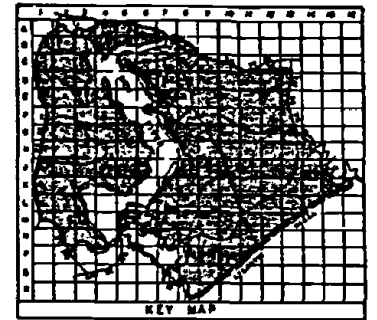
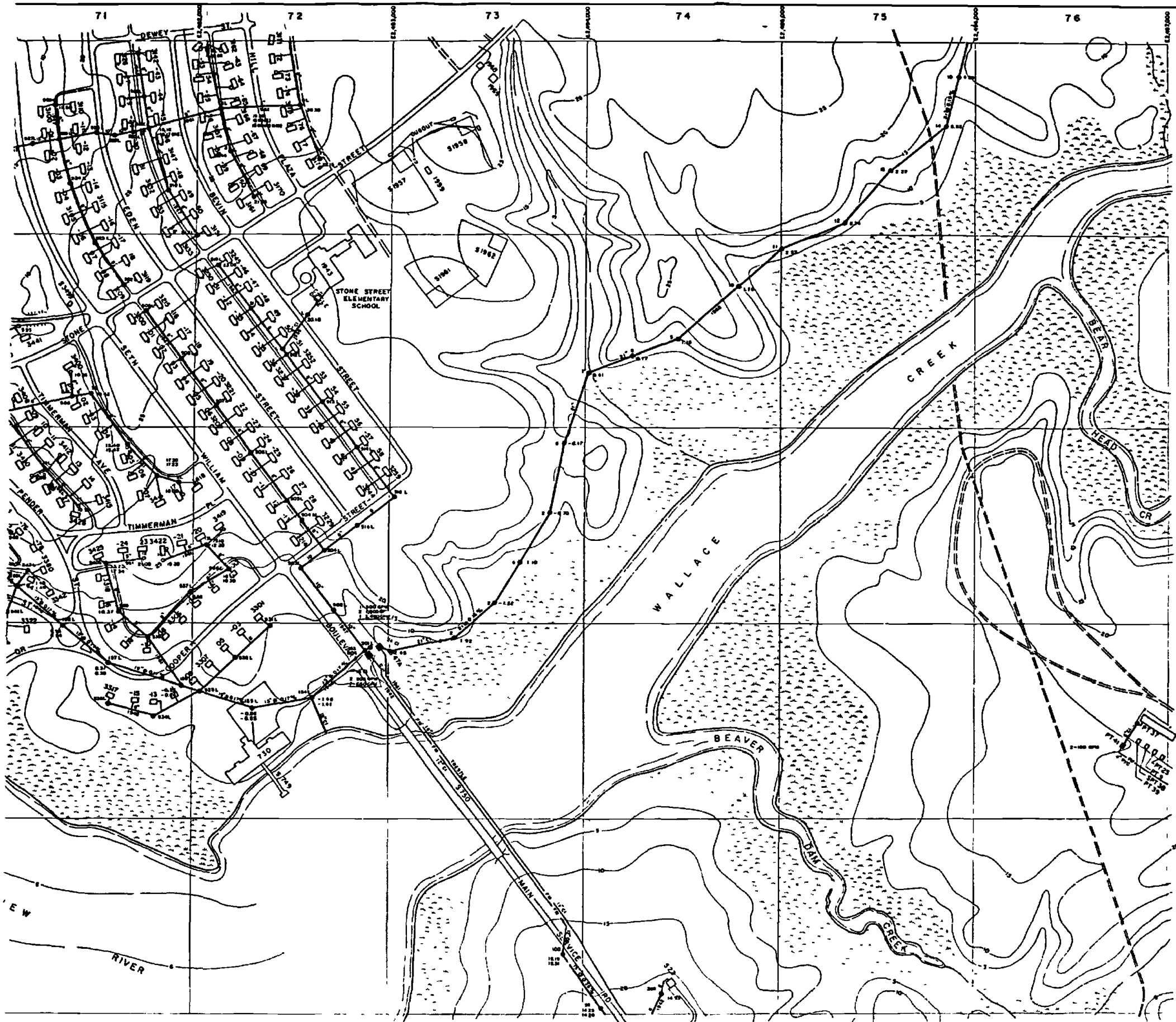


- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE

NOTES:
 ALL SANITARY SEWERS ARE TYPICAL SEWER UNLESS NOTED OTHERWISE.
 ALL SERVICE LINES IN 2000, 3000 & 4000 FEET ARE 4"



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	SCALE	SHEET	
31 JULY 64	GRAPHIC	E-6 of 73	
APPROVED/DATE	000000 b2.		



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - SERVICE LINE

MATERIAL OF CONSTRUCTION
 GI - CAST IRON
 PVC - POLYVINYL CHLORIDE

NOTES:
 ALL SEWER SEWERS ARE TERNAL SIFTS UNLESS NOTED OTHERWISE
 ALL SERVICE LINES IN THIS SHEET ARE 4" OR 6"



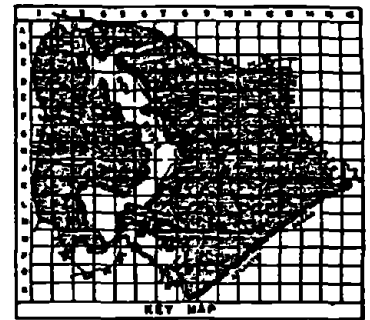
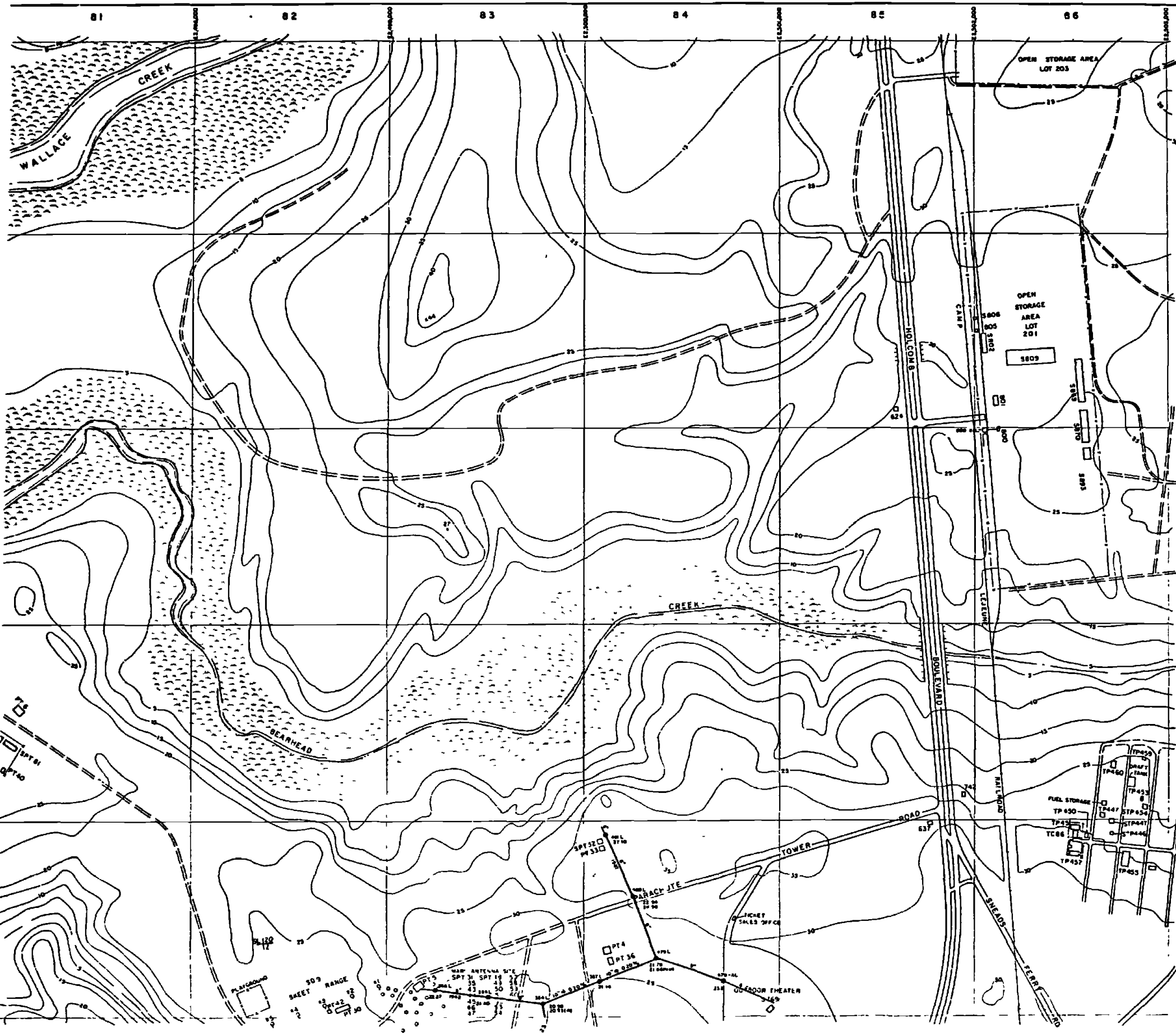
NO.	DESCRIPTION OF DEVIATION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE: 31 JULY 84	SCALE: GRAPHIC	SHEET: E-7 OF 73
APPROVER: DATE	00000063	

D1562



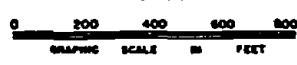
LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- HELICOPTER LANDING ZONE
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- SEPTIC TANK AND DRAIN FIELD

MATERIAL OF CONSTRUCTION

- CI - CAST IRON

NOTES:
ALL SANITARY SEWERS ARE FEET DEEP UNLESS NOTED OTHERWISE



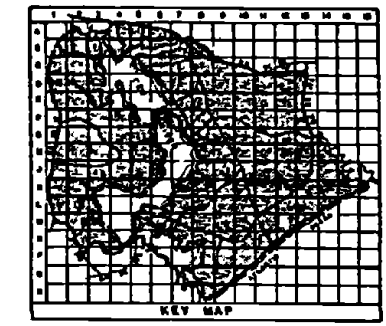
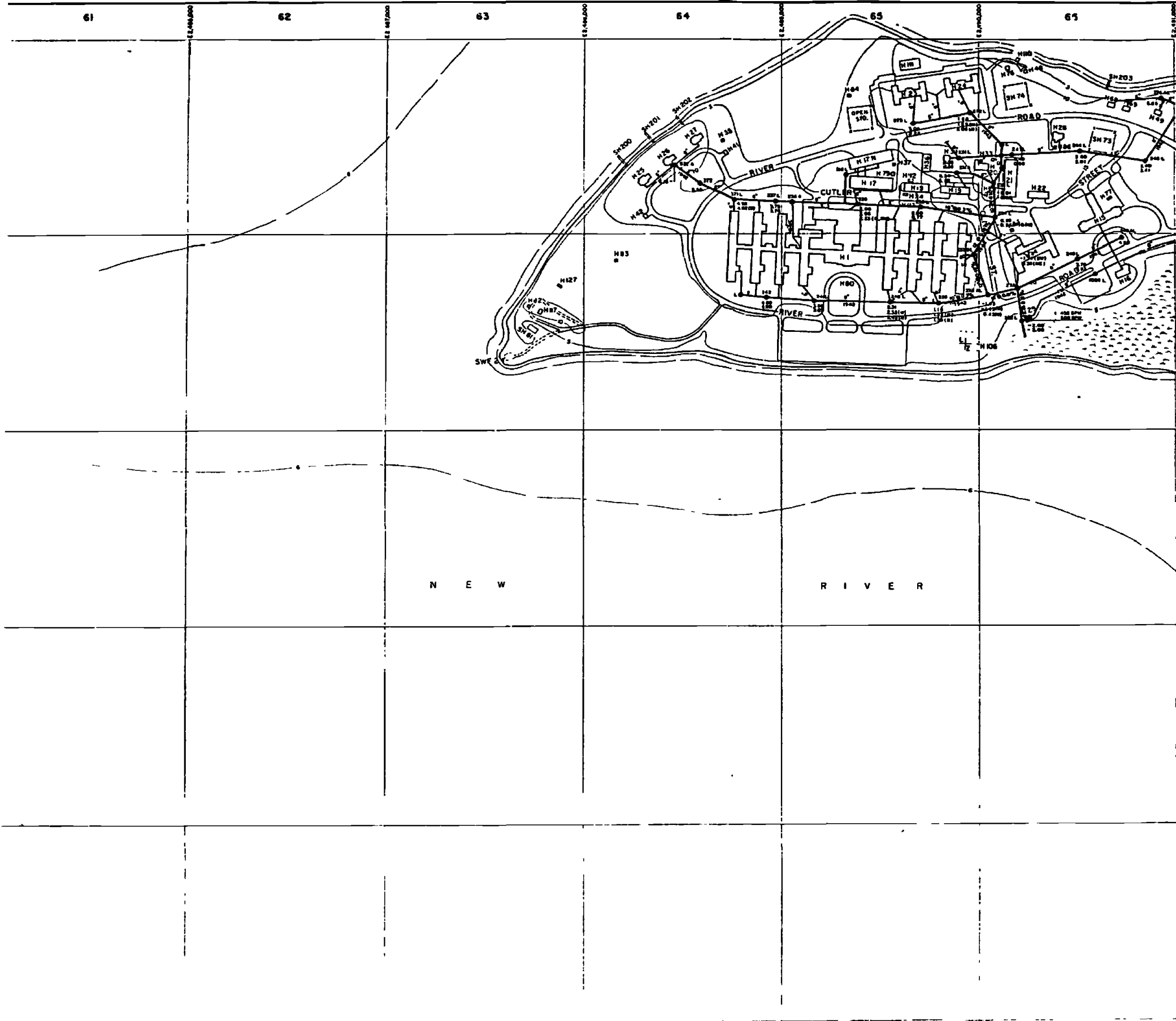
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
EXISTING CONDITIONS

DATE: 31 JULY 64 SCALE: GRAPHIC SHEET E-8 OF 73
APPROVED / DATE: 00000064

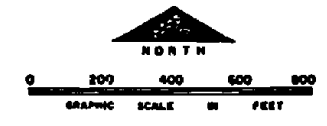
D157Z



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - HELICOPTER LANDING ZONE
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION

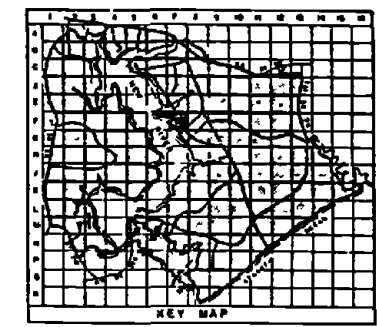
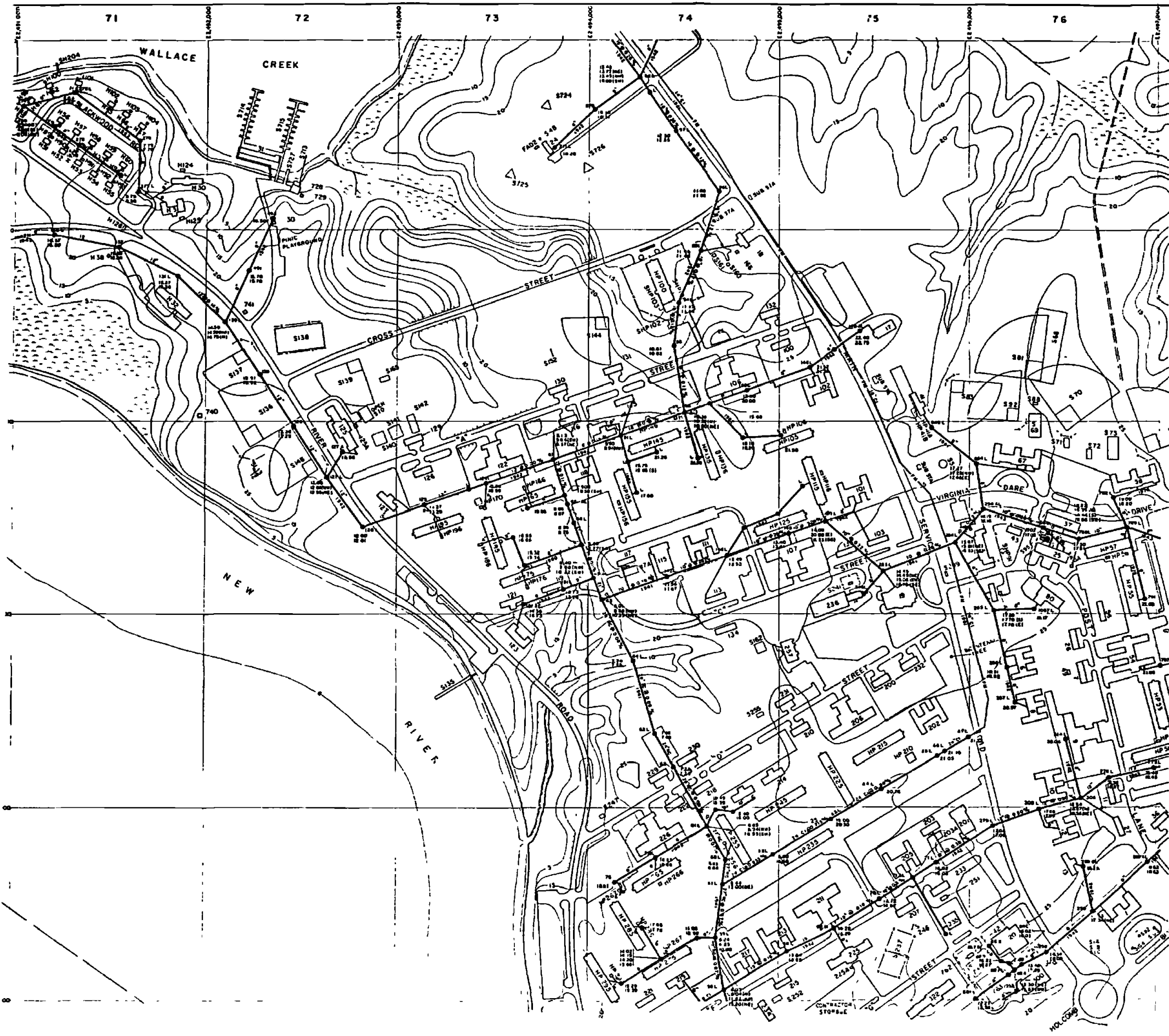
MATERIAL OF CONSTRUCTION
 VC - VITRIFIED CLAY

NOTES:
 ALL GRAVITY SEWERS ARE TERRA COTTA UNLESS NOTED OTHERWISE
 ALL SERVICE LINES ON THIS SHEET ARE 6" UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	31 JULY 64	SCALE	GRAPHIC
APPROVED/DATE	0000065		
		SHEET	F-6 of 73

D1582



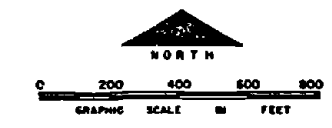
- LEGEND**
- ▭ BUILDINGS AND STRUCTURES
 - ▬ ROADS AND HIGHWAYS
 - ▬ ROADS (Unpaved)
 - ▬ FENCE
 - 5' CONTOUR (Source-USGS Maps)
 - ⊕ HELICOPTER LANDING ZONE
 - ▬ SWAMP OR MARSH
 - SANITARY SEWER
 - ⊕ MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - OIL/WATER SEPARATOR

MATERIAL OF CONSTRUCTION

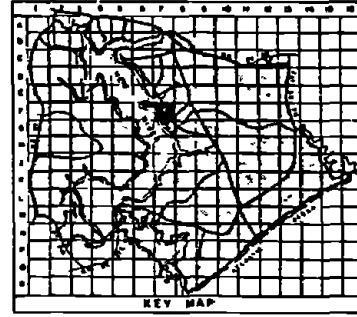
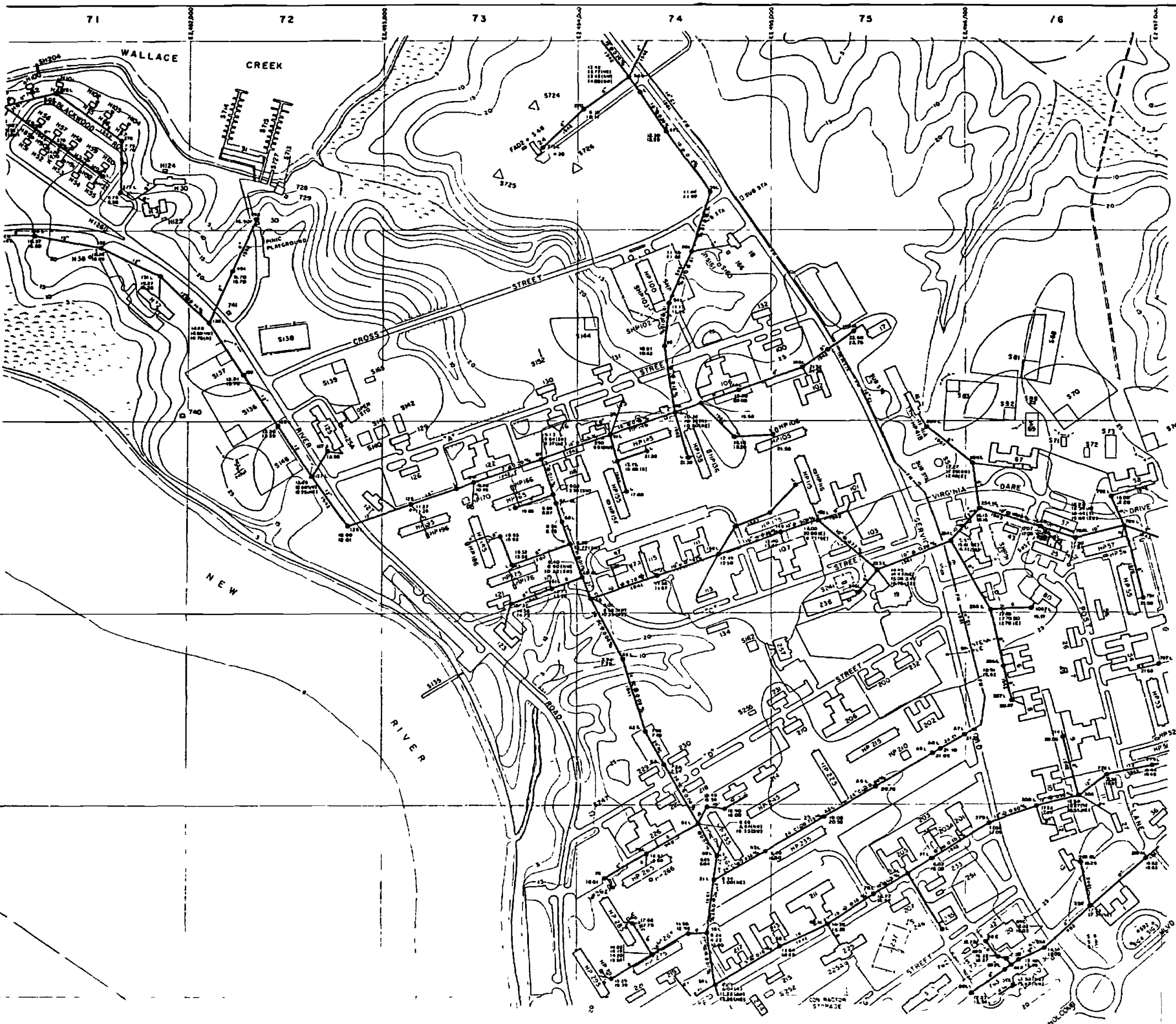
- ST CAST IRON
- PCV POLYVINYL CHLORIDE
- BT BRICK
- BT BRICK

NOTES:

- ALL SERVICE LINES AND FORCE MAINS UNLESS NOTED OTHERWISE
- ALL SERVICE LINES ON THIS SHEET ARE 12" UNLESS NOTED OTHERWISE



NO	DESCRIPTION OF REVISION	DATE	INT
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 84	SCALE GRAPHIC	SHEET F-7 OF 73	
APPROVED/DATE	000000 00		

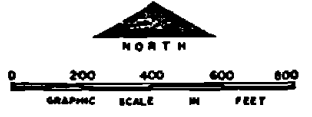


- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source-USGS Maps)
 - HELICOPTER LANDING ZONE
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - OIL/WATER SEPARATOR

MATERIAL OF CONSTRUCTION

- SI - CAST IRON
- RC - REINFORCED CONCRETE
- PC - POLYETHYLENE CHLORIDE
- DI - DUCTILE IRON
- W - WITHESS CLAY

NOTES:
 ALL GRAVITY SEWERS ARE TYPICAL UNLESS NOTED OTHERWISE
 ALL SERVICE LINES OF THIS SHEET ARE 6" UNLESS NOTED OTHERWISE



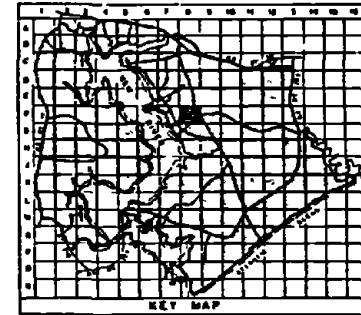
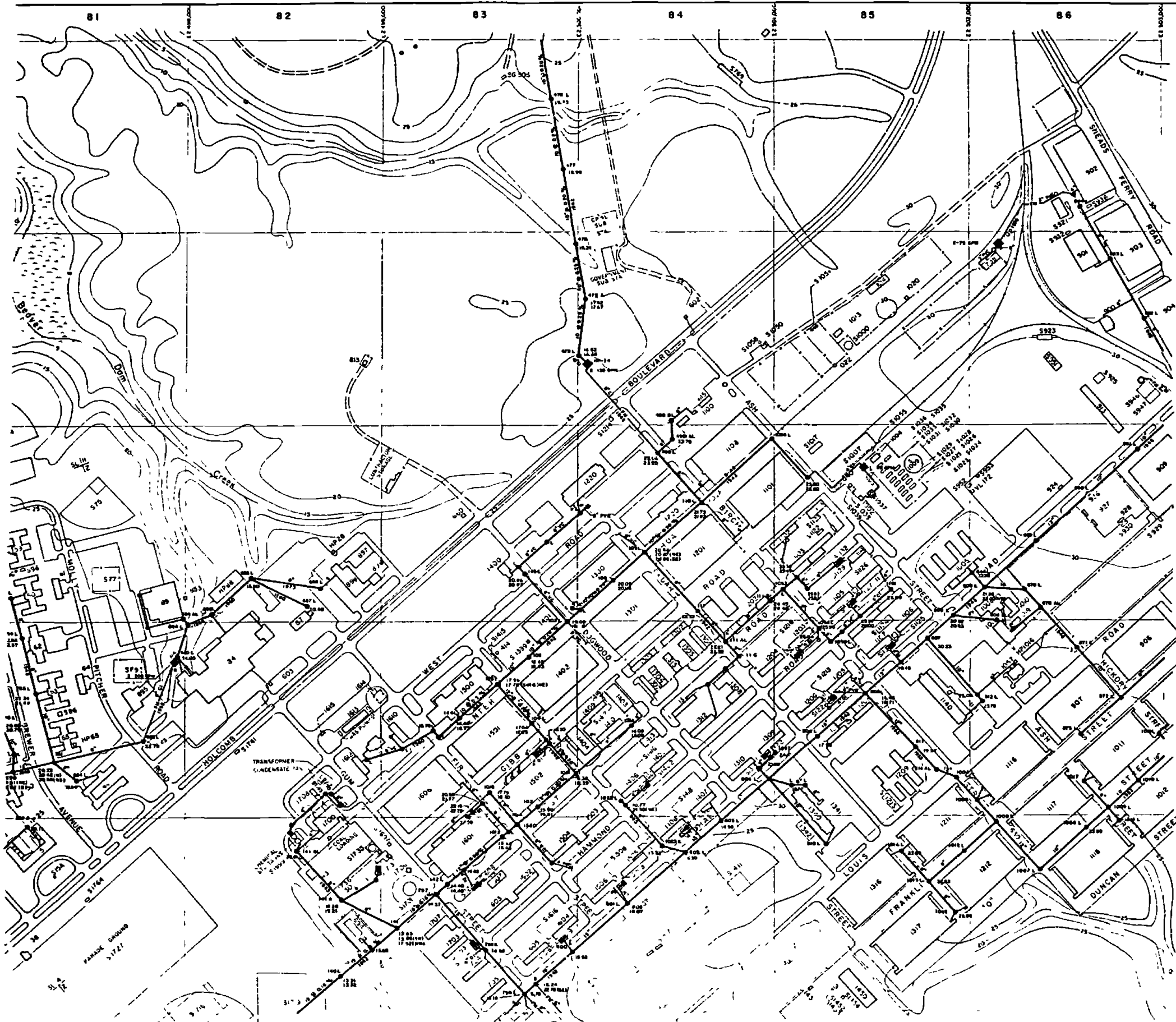
NO	DESCRIPTION OF REVISION	DATE	INIT

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

**WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS**

DATE 31 JUL 84 SCALE GRAPHIC SHEET F-7 OF 73
 APPROVED/DATE 00000 06

D160Z



LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- HELICOPTER LANDING ZONE
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- SEWAGE PUMPING STATION
- JUNCTION BOX
- OIL/WATER SEPARATOR
- STORAGE TANK
- SEPTIC TANK
- MATERIAL OF CONSTRUCTION**
- AC - ASBESTOS CEMENT
- CI - CAST IRON
- VC - VITRIPPED CLAY
- DI - DUCTILE IRON
- PVC - POLYVINYL CHLORIDE

NOTES
ALL SANITARY SEWER AND FORCE MAINS UNLESS NOTED OTHERWISE



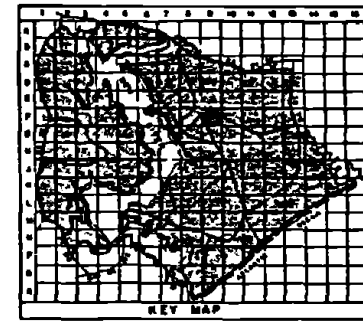
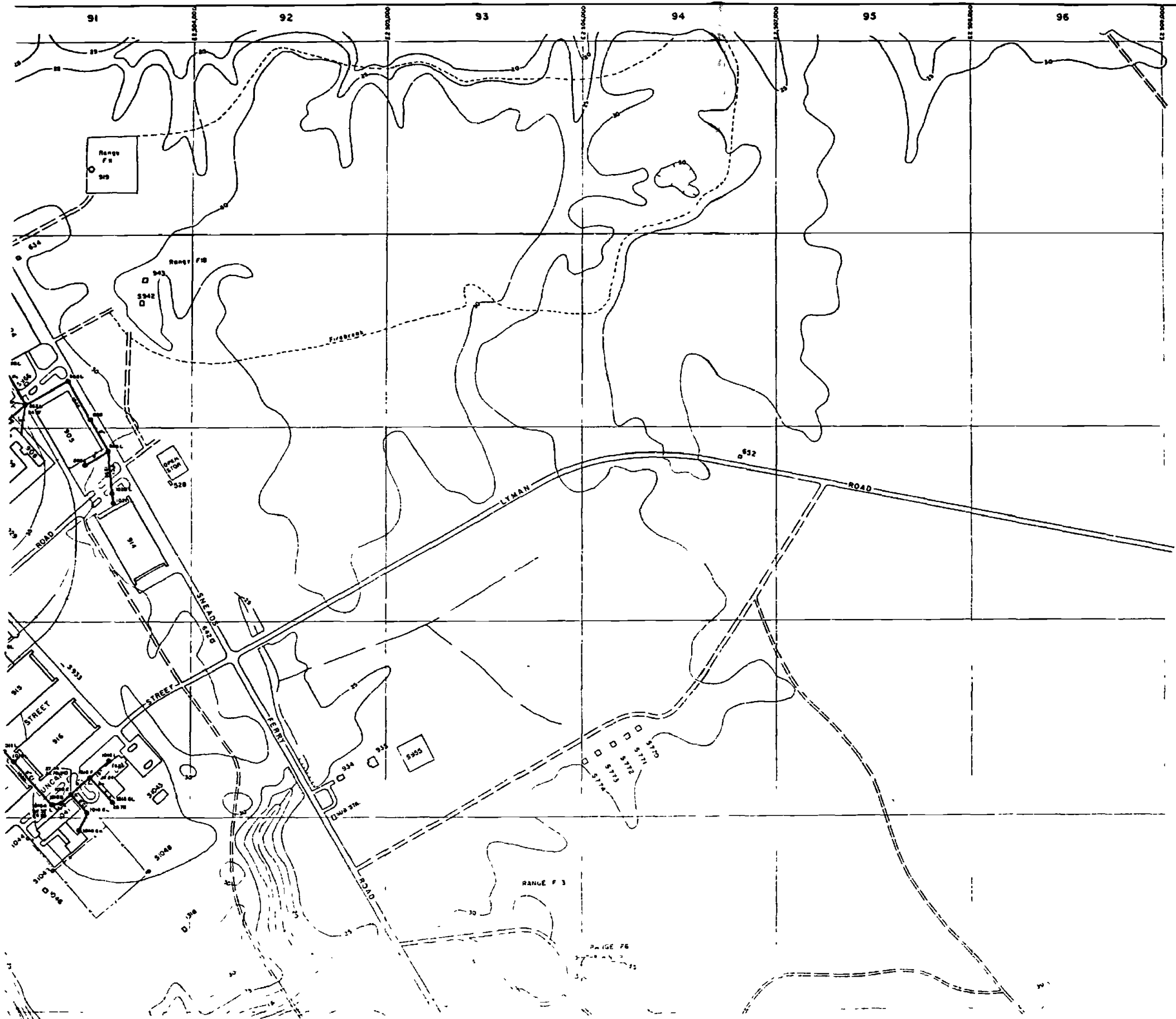
NO	DESCRIPTION OF REVISION	DATE	INIT

DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
EXISTING CONDITIONS

DATE 31 JULY 66 SCALE GRAPHIC SHEET F-8 OF 73
APPROVED/DATE 00000067

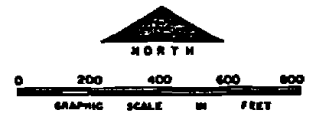
D161Z



- LEGEND**
- [Symbol] BUILDINGS AND STRUCTURES
 - [Symbol] ROADS AND HIGHWAYS
 - [Symbol] ROADS (Unpaved)
 - [Symbol] FENCE
 - [Symbol] 5' CONTOUR (Source - USGS Maps)
 - [Symbol] SANITARY SEWER
 - [Symbol] MANHOLE
 - [Symbol] SERVICE LINE
 - [Symbol] FORCE MAIN

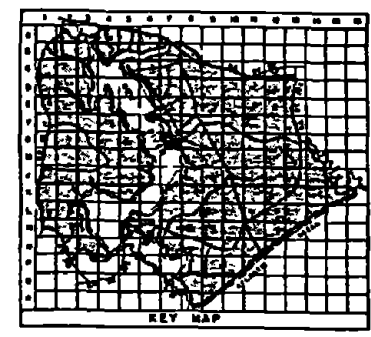
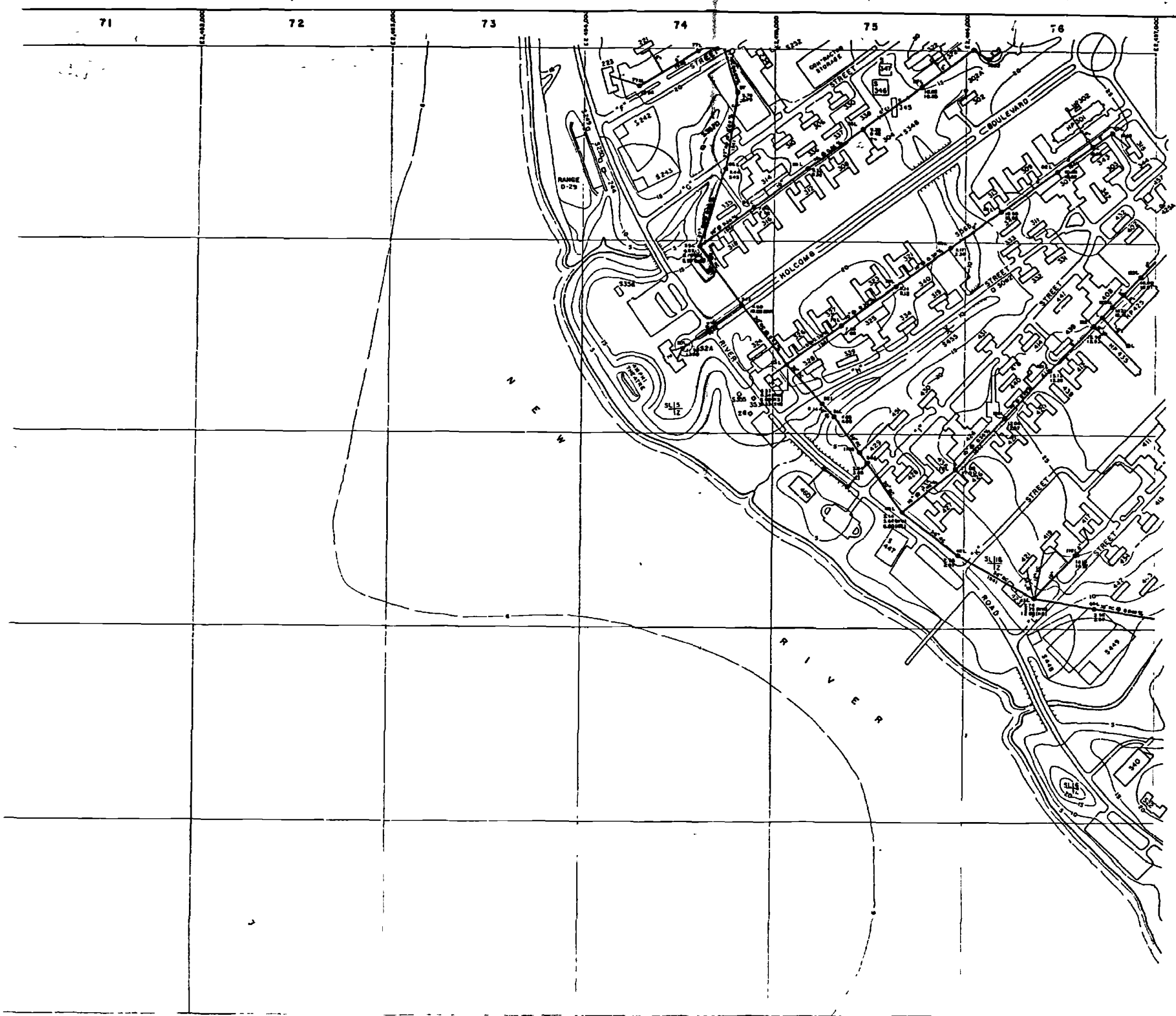
MATERIAL OF CONSTRUCTION
 □ - BRICK 1968
 ○ - G.I. 1968

NOTES:
 ALL SANITARY SEWERS ARE TERRA COTTA UNLESS NOTED OTHERWISE.



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	SCALE	SHEET	OF
31 JULY 64	GRAPHIC	F-9	73
APPROVED / DATE	0000068		

D1622



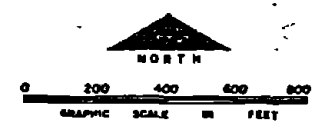
- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - 5' CONTOUR (Source - USGS Maps)
 - HELICOPTER LANDING ZONE
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE

MATERIAL OF CONSTRUCTION

- SI - CAST IRON
- SC - REINFORCED CONCRETE
- SE - REINFORCED CLAY

NOTES

- ALL CHASEY SEWERS ARE TYPED WITH UNLESS NOTED OTHERWISE
- ALL SERVICE LINES IN 200, 300 & 400 ARE AREAS ARE 4"



NO.	DESCRIPTION OF REVISION	DATE	BY

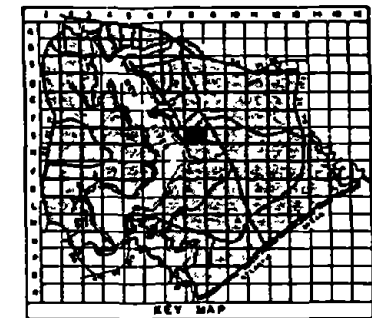
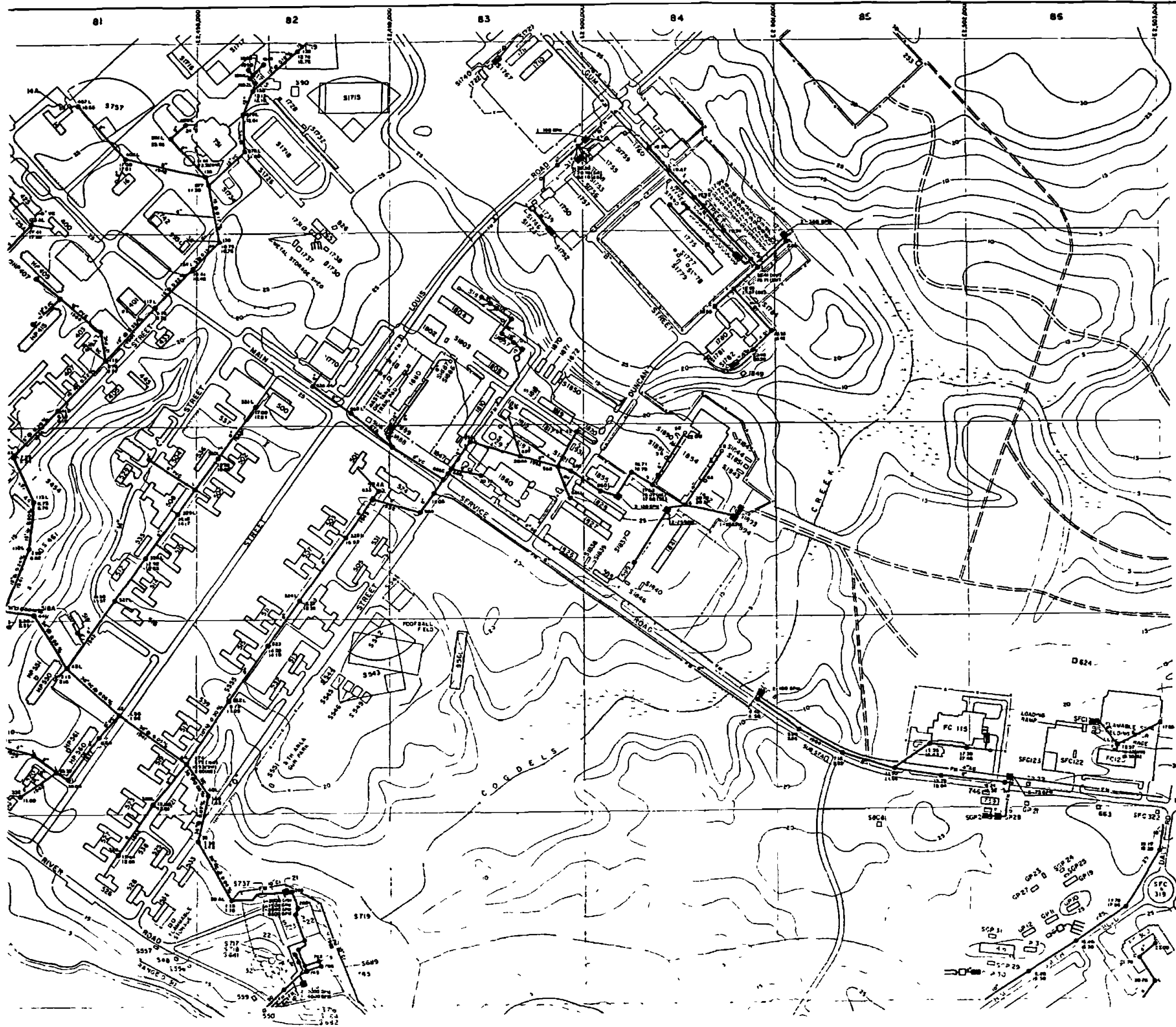
DEPARTMENT OF THE NAVY
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
EXISTING CONDITIONS

DATE 31 JULY 84 SCALE GRAPHIC SHEET G-7 OF 73

APPROVED / DATE 00000069

D163Z



- LEGEND**
- [Symbol] BUILDINGS AND STRUCTURES
 - [Symbol] ROADS AND HIGHWAYS
 - [Symbol] ROADS (Unpaved)
 - [Symbol] FENCE
 - [Symbol] 5' CONTOUR (Source - USGS Maps)
 - [Symbol] SWAMP OR MARSH
 - [Symbol] SANITARY SEWER
 - [Symbol] MANHOLE
 - [Symbol] SERVICE LINE
 - [Symbol] FORCE MAIN
 - [Symbol] SEWAGE PUMPING STATION
 - [Symbol] SEPTIC TANK AND DRAIN FIELD
 - [Symbol] OIL/WATER SEPARATOR
 - [Symbol] JUNCTION BOX
 - [Symbol] STORAGE TANK
- MATERIALS OF CONSTRUCTION**
- AC - ADDED CEMENT
 - CI - CAST IRON
 - PC - PORTLAND CEMENT
 - RC - REINFORCED CONCRETE
 - ME - METAL
 - ST - STEEL

NOTES
 ALL SANITARY SEWERS AND FORCE MAINS SHALL BE 18" DIA.
 ALL SERVICE LINES IN 100, 150 & 200 AREA ARE 12"



NO.	DESCRIPTION OF REVISION	DATE	BY

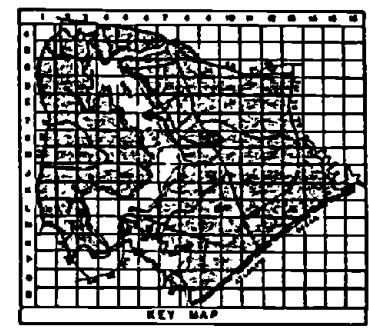
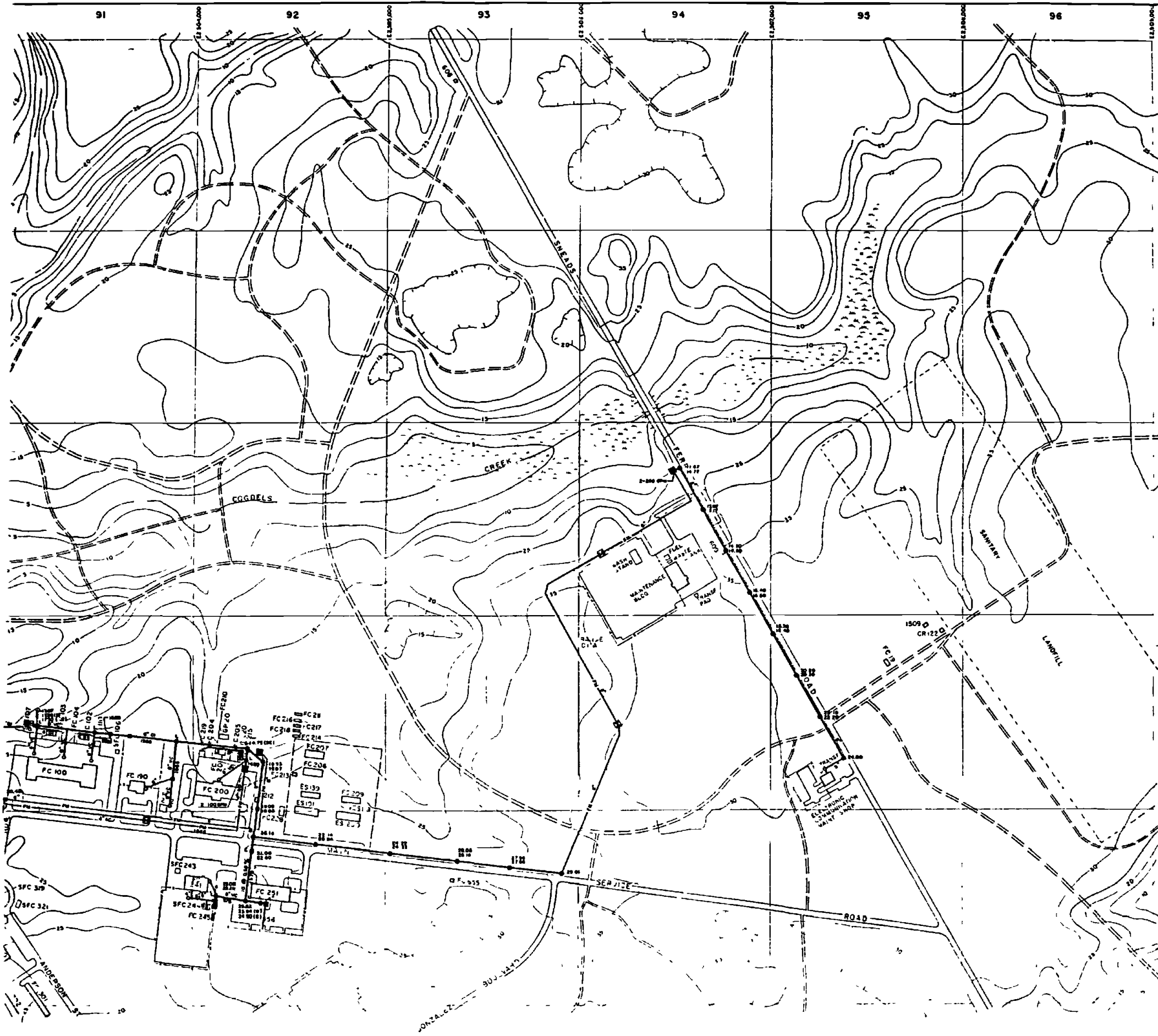
DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE: 21 JULY 84 SCALE: GRAPHIC SHEET: G-8 of 73

APPROVED: DATE: 00000070

D164Z

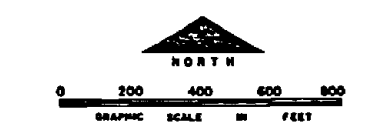


- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unimproved)
 - FENCE
 - 5' CONTOUR (Source—USGS Maps)
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - AIR RELEASE VALVE
 - SEWAGE PUMPING STATION
 - JUNCTION BOX
 - OIL/WATER SEPARATOR

MATERIAL OF CONSTRUCTION

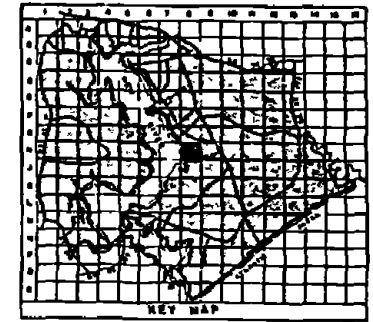
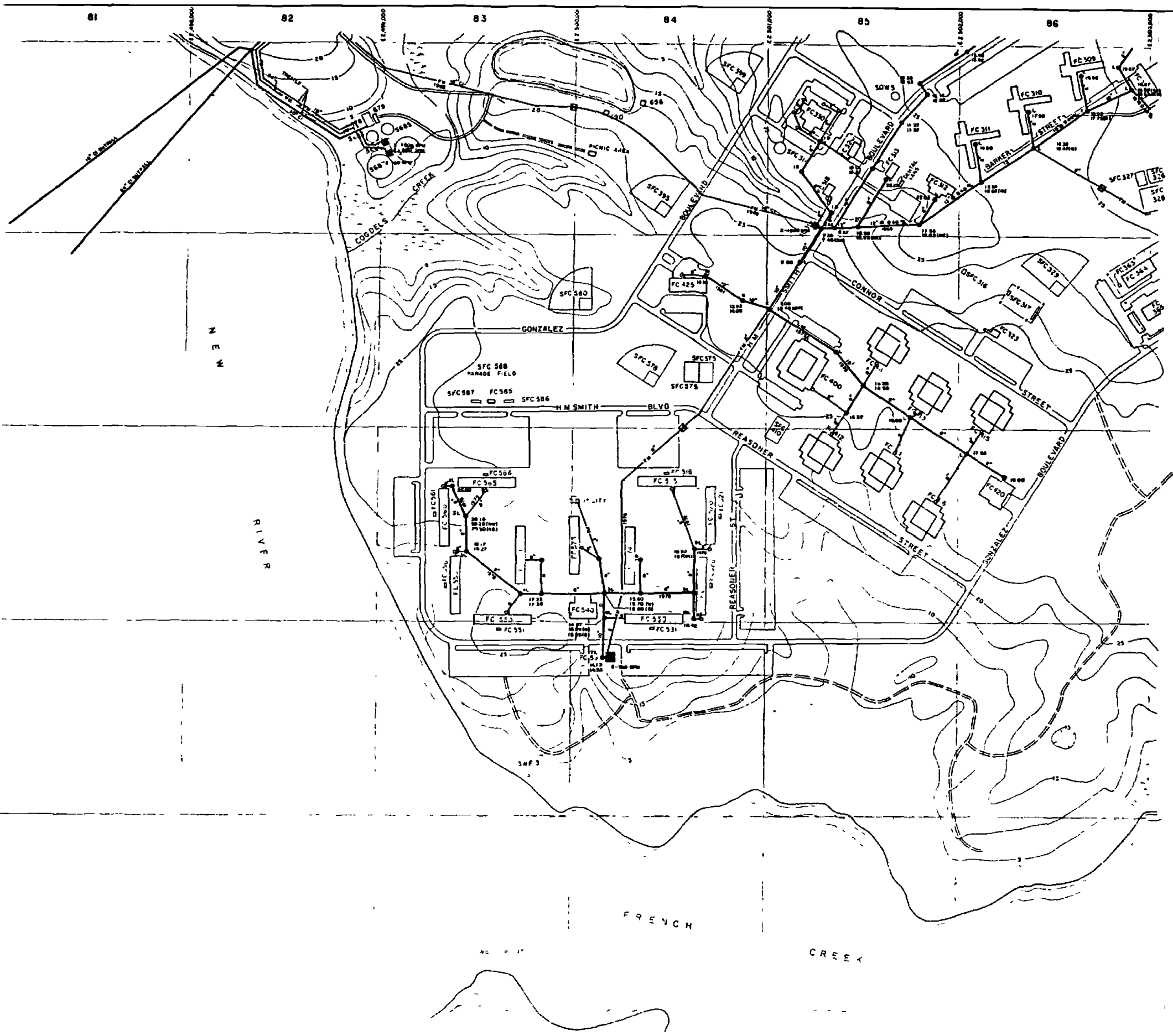
- AS - ASBESTOS CEMENT
- SI - 12" ST. IRON
- VC - HYDRATED CLAY
- BT - BUTYLENE RUBBER

NOTES:
ALL SANITARY SEWERS ARE TYPED WITH UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JUL 73	SCALE GRAPHIC	SHEET G-9 OF 73	
APPROVED DATE	00000071		

D165Z



- LEGEND**
- [Symbol] BUILDINGS AND STRUCTURES
 - [Symbol] ROADS AND HIGHWAYS
 - [Symbol] ROADS (Unpaved)
 - [Symbol] FENCE
 - [Symbol] 5' CONTOUR (Source - USGS Maps)
 - [Symbol] SWAMP OR MARSH
 - [Symbol] SANITARY SEWER
 - [Symbol] MANHOLE
 - [Symbol] SERVICE LINE
 - [Symbol] FORCE MAIN
 - [Symbol] AIR RELEASE VALVE
 - [Symbol] SEWAGE PUMPING STATION

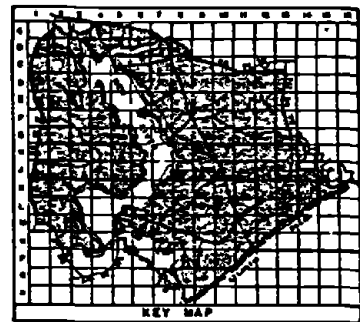
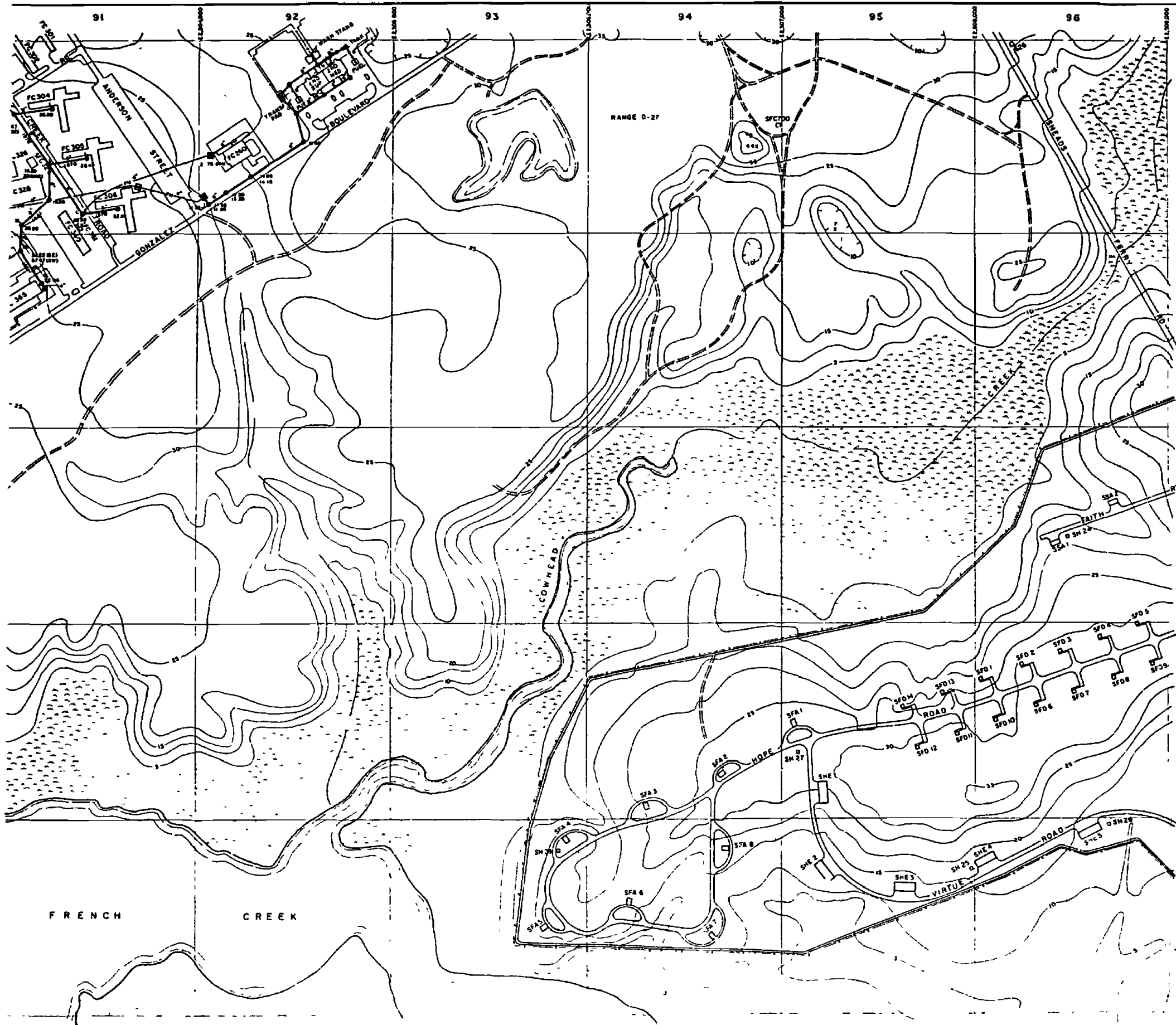
DATE OF CONSTRUCTION
01 - 08/1968

NOTE: ALL DENSITY SEWERS ARE TYPED WITH HOLLOW LINES.



NO. _____		DATE	INT.
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 84	SCALE GRAPHIC	SHEET H-8 OF 73	
APPROVED / DATE	000000 73		

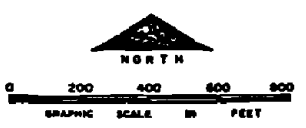
D166Z



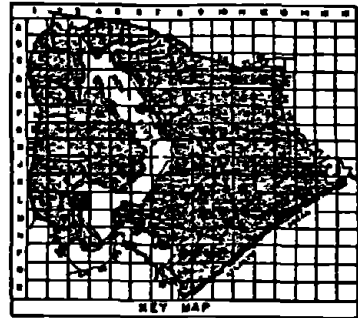
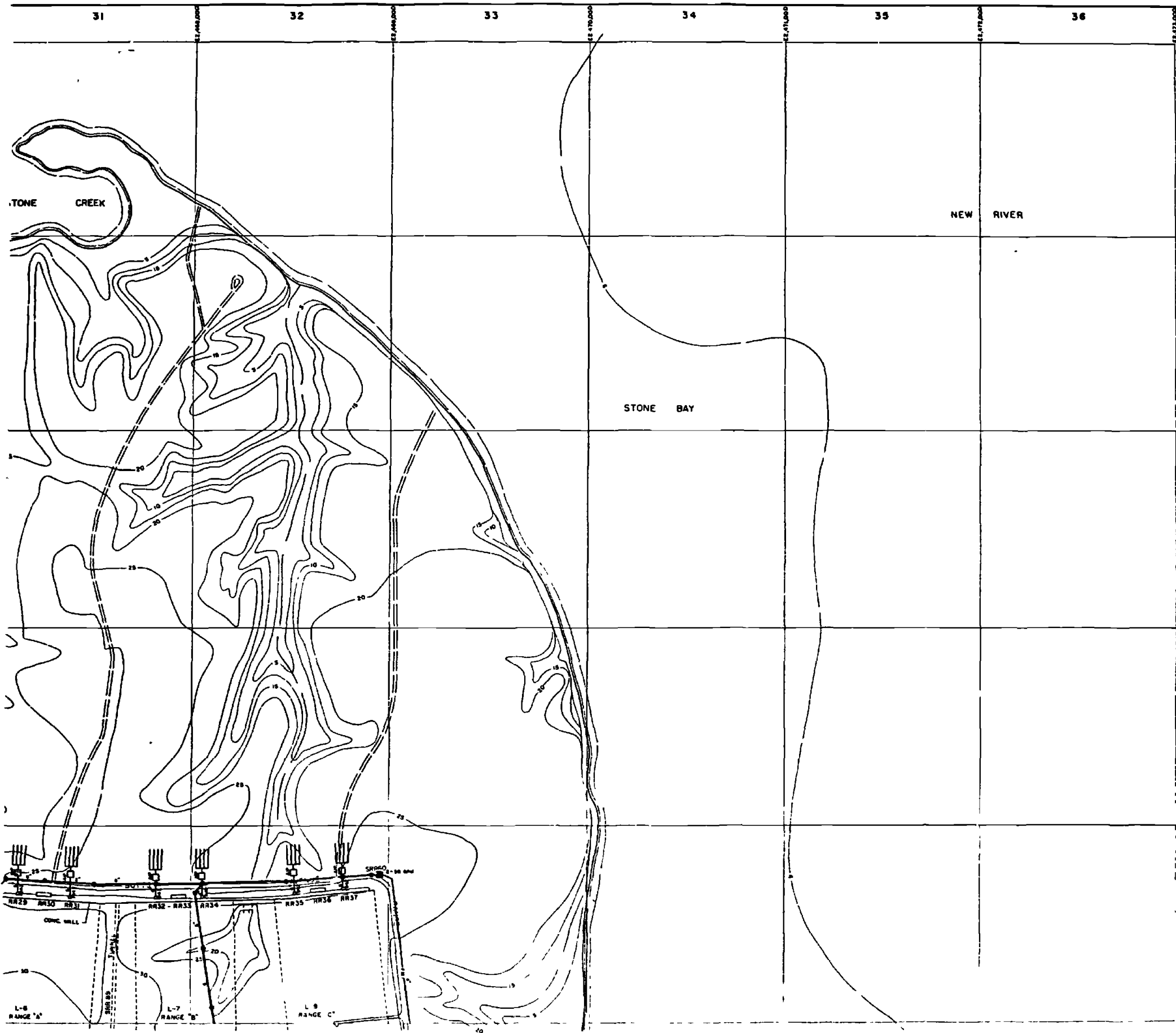
LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- SEWAGE PUMPING STATION
- OIL/WATER SEPARATOR
- AIR RELEASE VALVE

NOTES:
ALL GRAVITY SEWERS ARE TERRA COTTA UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	31 JULY 64	SCALE	GRAPHIC
APPROVED / DATE	00000073		
SHEET H-9 of 73			



LEGEND

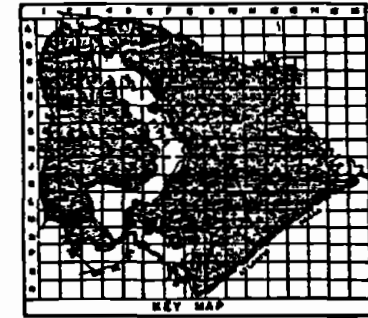
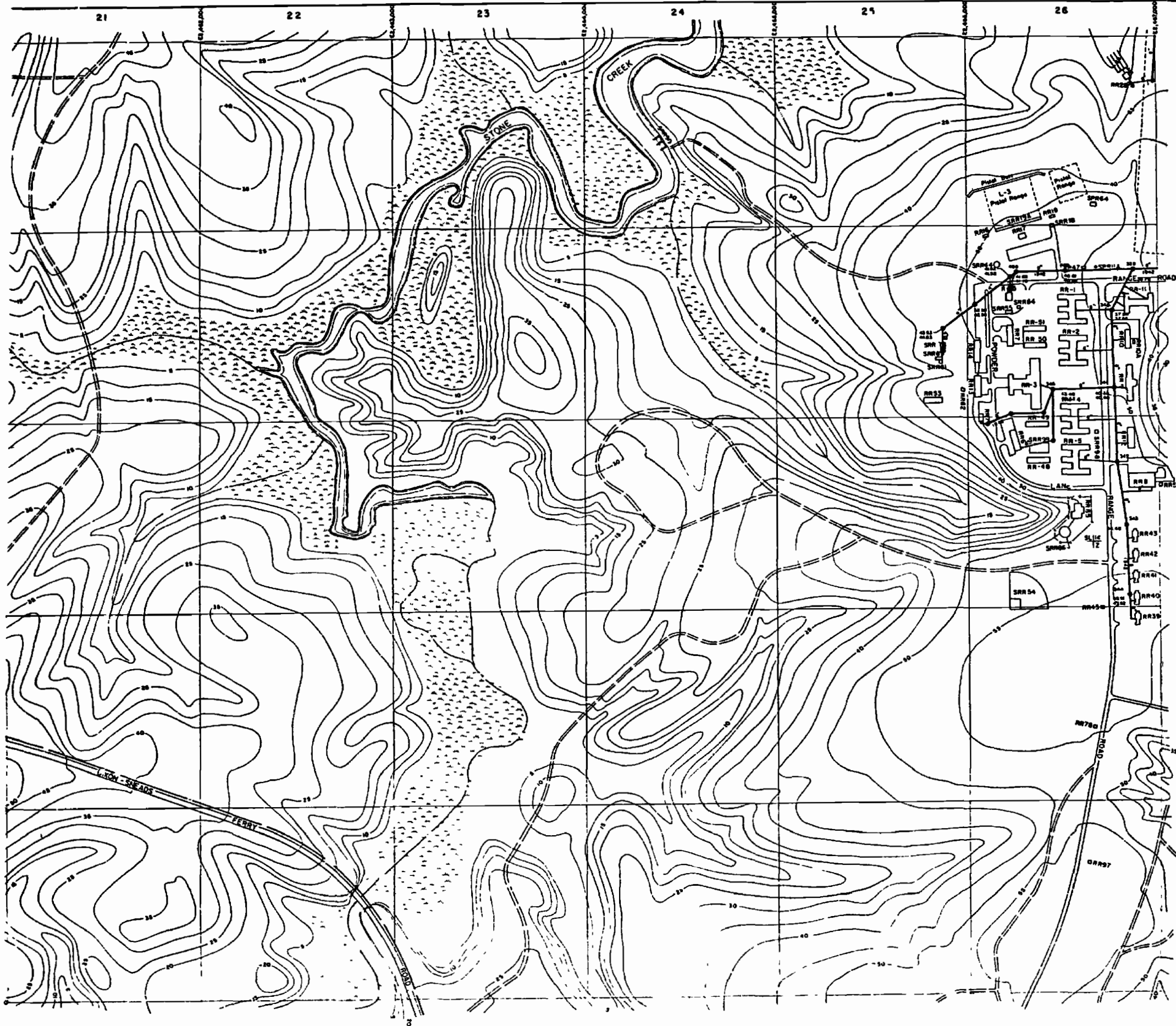
- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unimproved)
- FENCE
- 5' CONTOUR (Contours - USGS Maps)
- SERVICE LINE
- SEPTIC TANK AND DRAIN FIELD
- SANITARY SEWER
- MANHOLE
- FORCE MAIN
- SEWAGE PUMPING STATION

NOTES: ALL DIMENSIONS SHOWN ARE TO BE USED UNLESS OTHERWISE NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE: 31 JULY 64	SCALE: GRAPHIC	SHEET L-3 OF 73	
APPROVED: DATE	0000074		

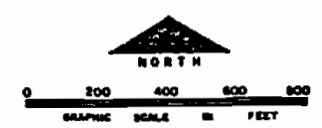
D1682



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unimproved)
 - FENCE
 - 5' CONTOUR (Brown - USGS Map)
 - HELICOPTER LANDING ZONE
 - RESERVATION BOUNDARY
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - OIL/WATER SEPARATOR
 - SEPTIC TANK AND DRAIN FIELD

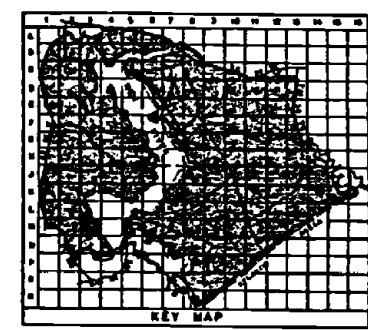
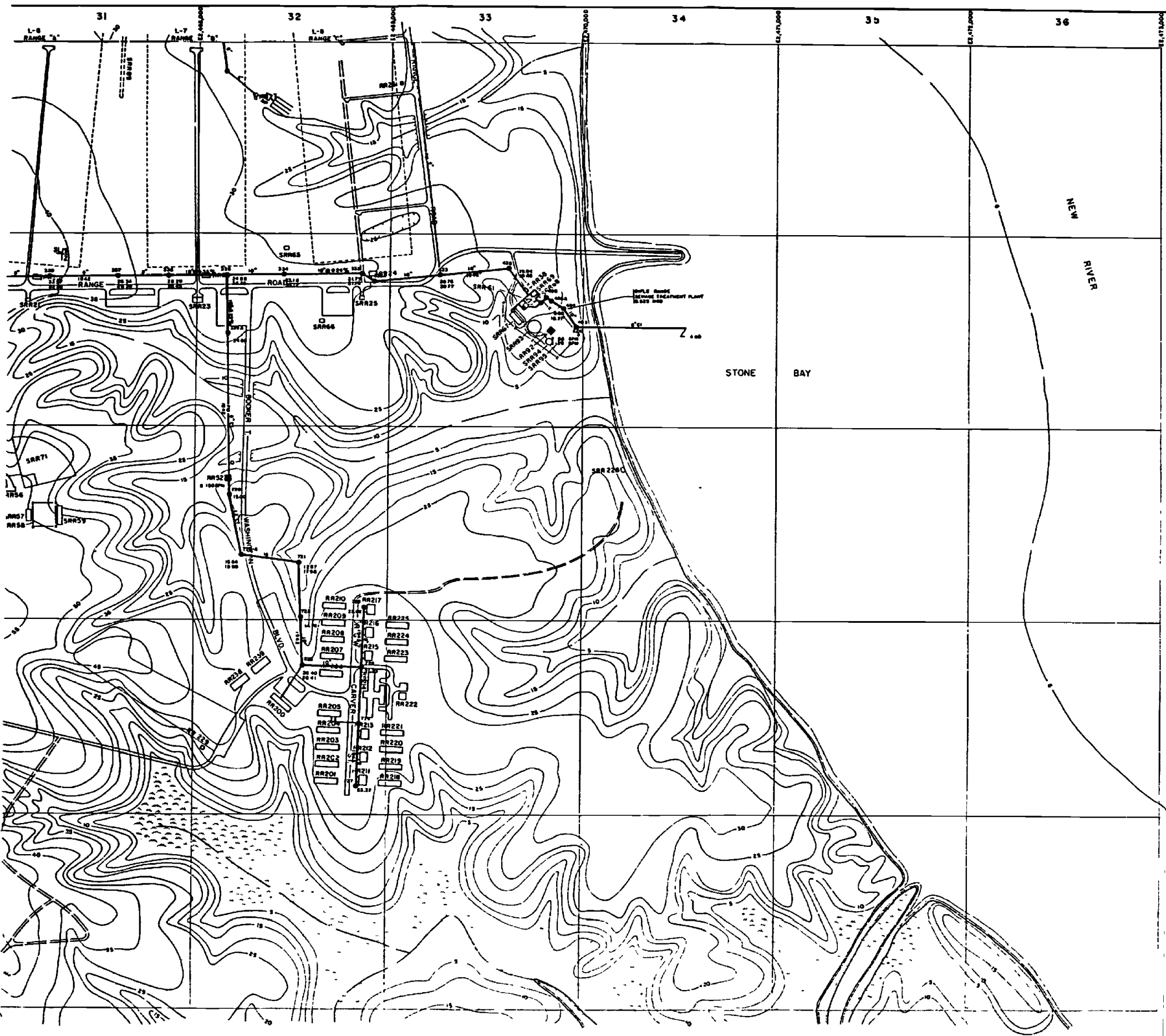
OFFICIAL OF CONSTRUCTION
 1:1 - GRAPHIC SCALE

NOTES
 ALL ELEVATION FIGURES ARE TERMS WITH UNLESS NOTED OTHERWISE.



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 84	SCALE GRAPHIC	SHEET M-2 OF 73	
APPROVED / DATE 00000075			

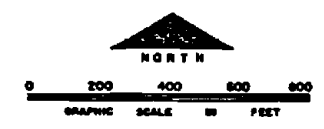
D169Z



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Contours-USGS Maps)
 - HELICOPTER LANDING ZONE
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN
 - SEWAGE PUMPING STATION
 - SEPTIC TANK AND DRAIN FIELD

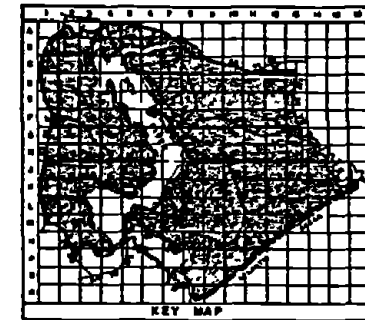
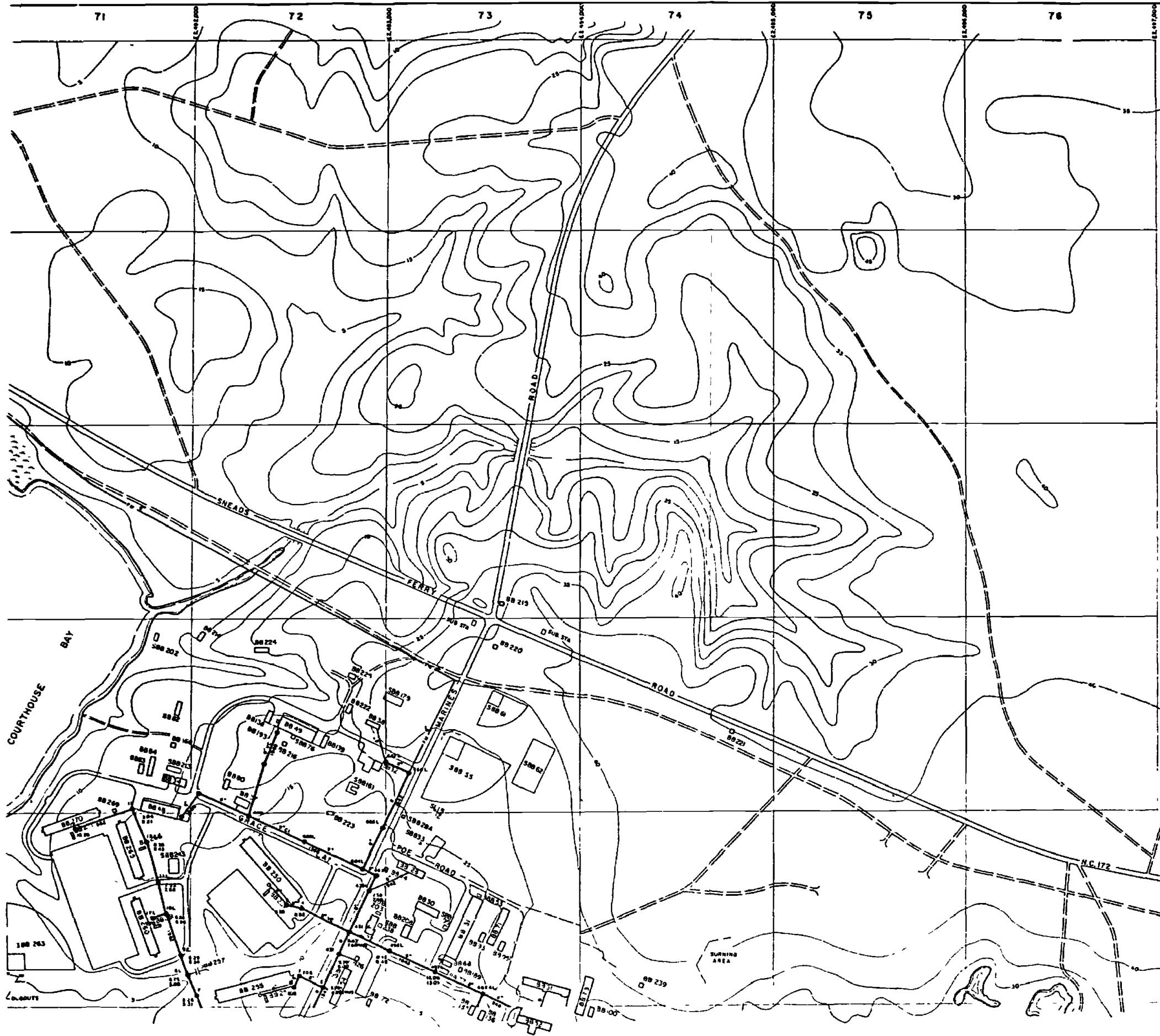
MATERIAL OF CONSTRUCTION
 CS - CAST IRON

NOTES:
 ALL SHALTY REVERSALS ARE TYPED WITH UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF DESIGN	DATE	INT.
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 84	SCALE GRAPHIC	SHEET M-3 OF 73	
APPROVED / DATE 00000076			

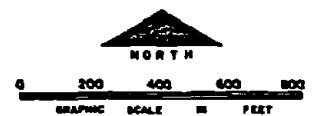
D170Z



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source - USGS Map)
 - HELICOPTER LANDING ZONE
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - FORCE MAIN

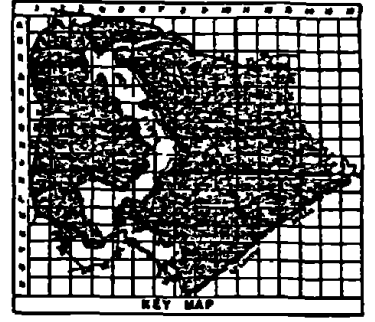
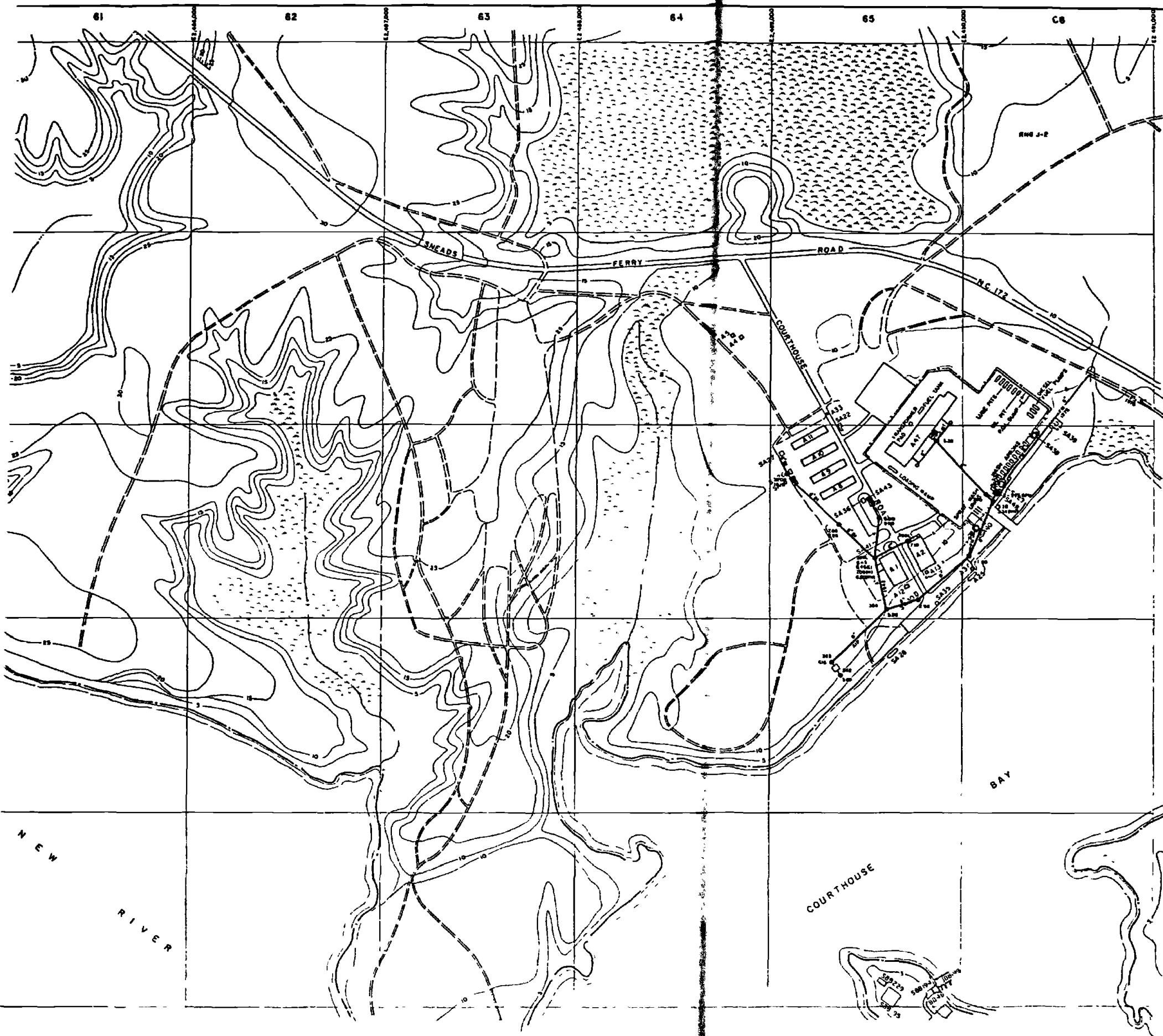
MATERIAL OF CONSTRUCTION
 12 - WINDUP CLIP

NOTES:
 ALL DIMENSIONS SHOWN ARE TYPICAL UNLESS NOTED OTHERWISE.



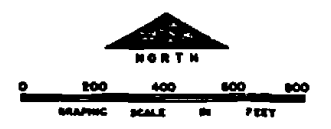
NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE 31 JULY 66	SCALE GRAPHIC	SHEET M-7 OF 73	
APPROVED / DATE	00000078		

D171Z



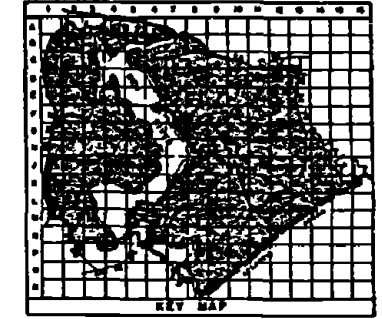
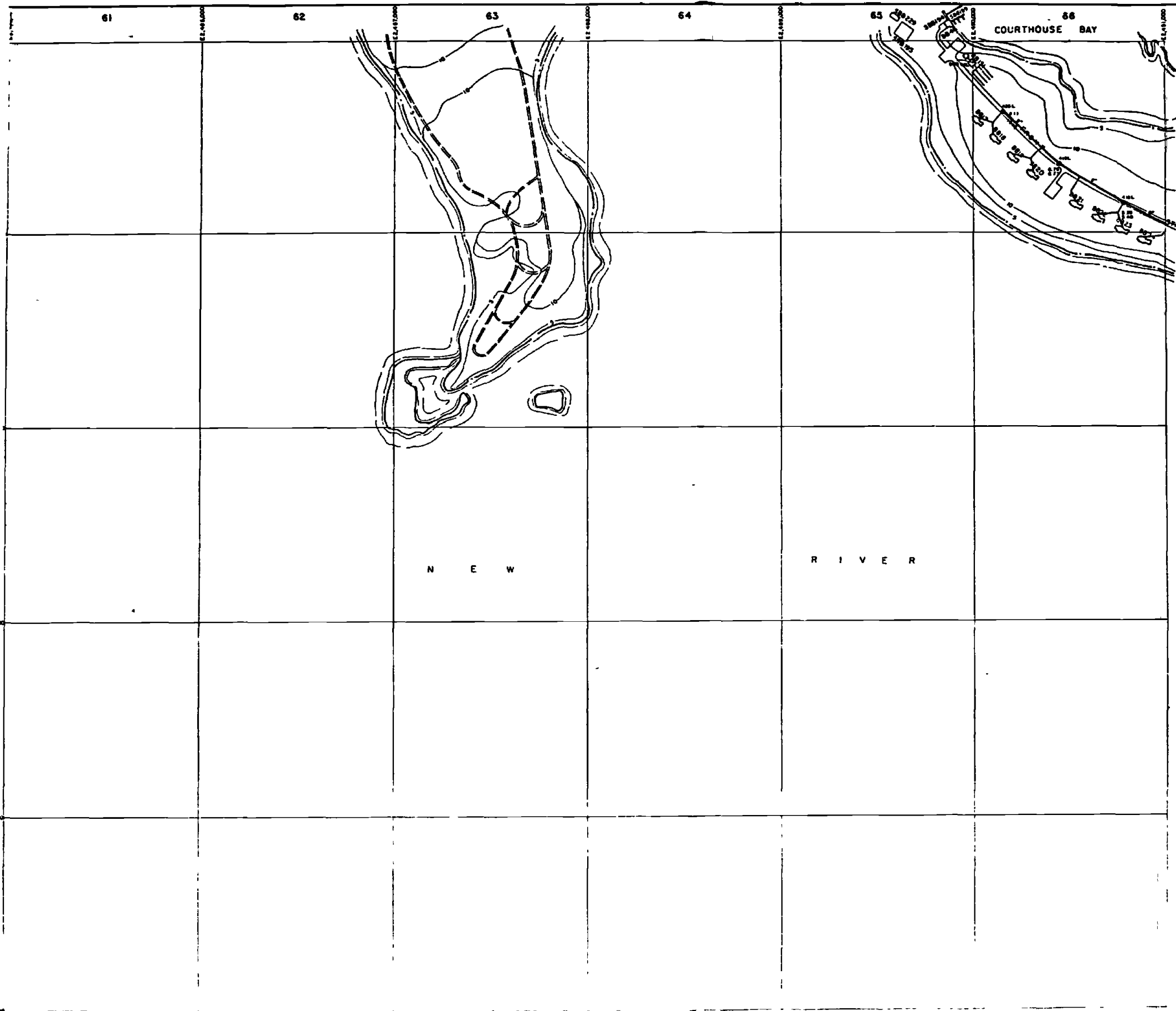
- LEGEND**
- [Symbol] BUILDINGS AND STRUCTURES
 - [Symbol] ROADS AND HIGHWAYS
 - [Symbol] ROADS (Unpaved)
 - [Symbol] FENCE
 - [Symbol] 5' CONTOUR (Source-USGS Maps)
 - [Symbol] RESERVATION BOUNDARY
 - [Symbol] SWAMP OR MARSH
 - [Symbol] SANITARY SEWER
 - [Symbol] MANHOLE
 - [Symbol] SERVICE LINE
 - [Symbol] FORCE MAIN
 - [Symbol] SEWAGE PUMPING STATION
 - [Symbol] ABANDONED IN PLACE
 - [Symbol] OIL/WATER SEPARATOR
 - [Symbol] STORAGE TANK
 - [Symbol] SEPTIC TANK
 - [Symbol] MATERIAL OF CONSTRUCTION
 - [Symbol] IN - INCHES

NOTES:
ALL DIMENSIONS GIVEN ARE PERMITTED UNLESS NOTED OTHERWISE



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	SCALE	SHEET	
31 JULY 84	GRAPHIC	M-6 of 73	
APPROVED / DATE	00000077		

D172Z



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unimproved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - RESERVATION BOUNDARY
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE
 - SEPTIC TANK AND DRAIN FIELD

NOTES:
 ALL SANITARY SEWERS ARE TRENCH SYSTEMS UNLESS NOTED OTHERWISE.
 ALL SERVICE LINES IN 6000 AREA ARE



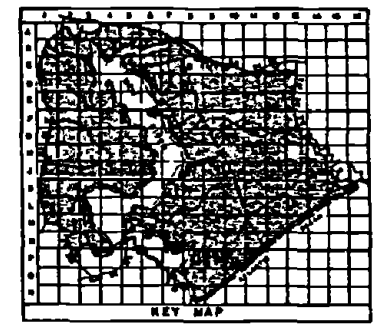
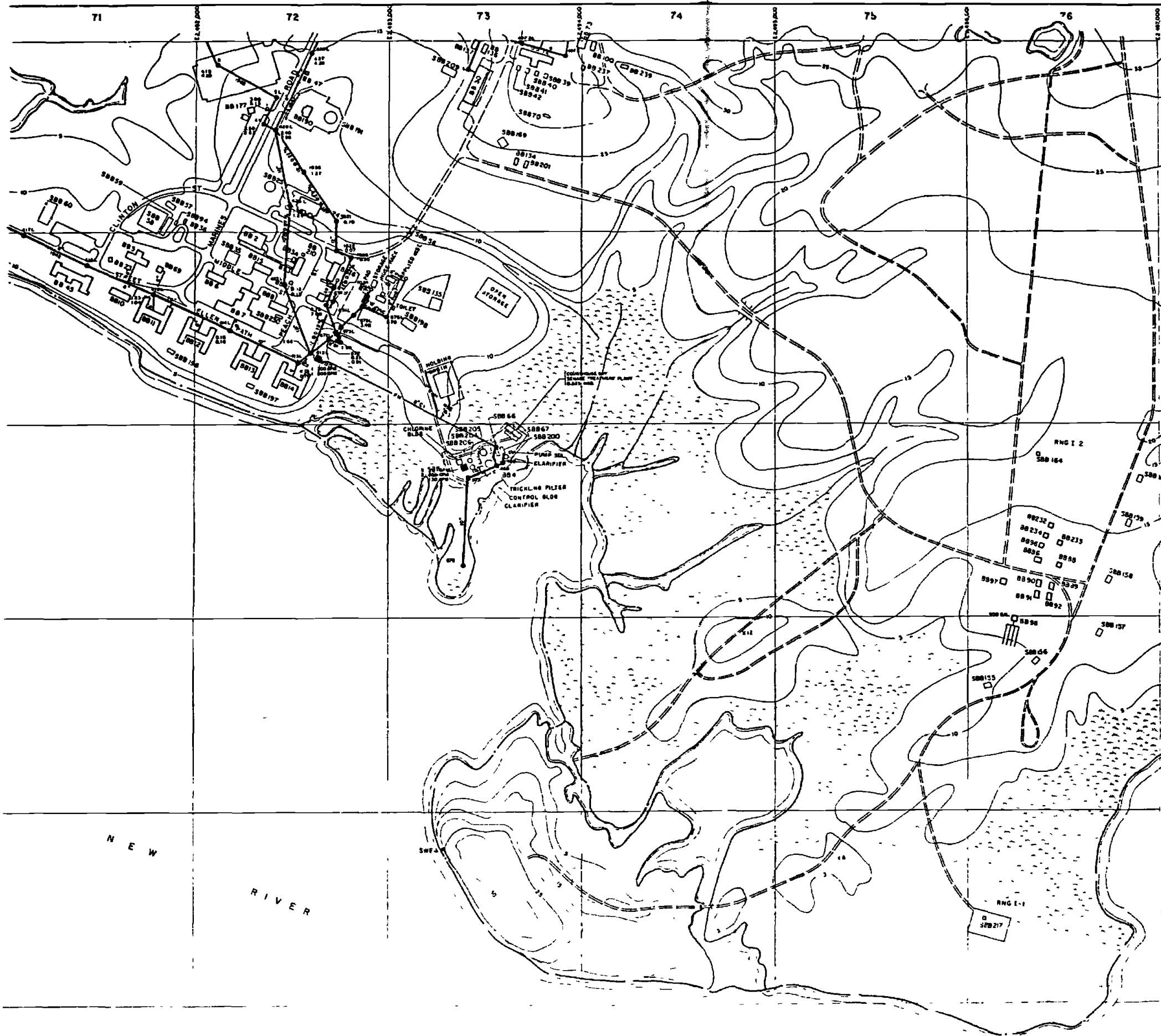
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE 31 JULY 64 SCALE GRAPHIC SHEET N-6 OF 73
 APPROVED / DATE 00000079

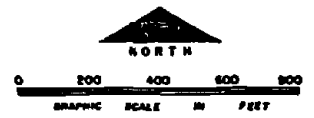
D1732



- LEGEND**
- [Symbol] BUILDINGS AND STRUCTURES
 - [Symbol] ROADS AND HIGHWAYS
 - [Symbol] ROADS (Unpaved)
 - [Symbol] FENCE
 - [Symbol] 5' CONTOUR (Source-USGS Maps)
 - [Symbol] RESERVATION BOUNDARY
 - [Symbol] SWAMP OR MARSH
 - [Symbol] SANITARY SEWER
 - [Symbol] MANHOLE
 - [Symbol] SERVICE LINE
 - [Symbol] FORCE MAIN
 - [Symbol] SEWAGE PUMPING STATION
 - [Symbol] OIL/WATER SEPARATOR
 - [Symbol] SEPTIC TANK AND DRAIN FIELD

MATERIAL OF CONSTRUCTION
 SL - DUCTILE IRON
 ST - CAST IRON

NOTES:
 ALL SANITARY SEWERS ARE TYPICAL 18" UNLESS NOTED OTHERWISE



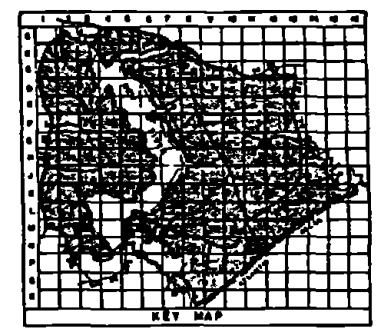
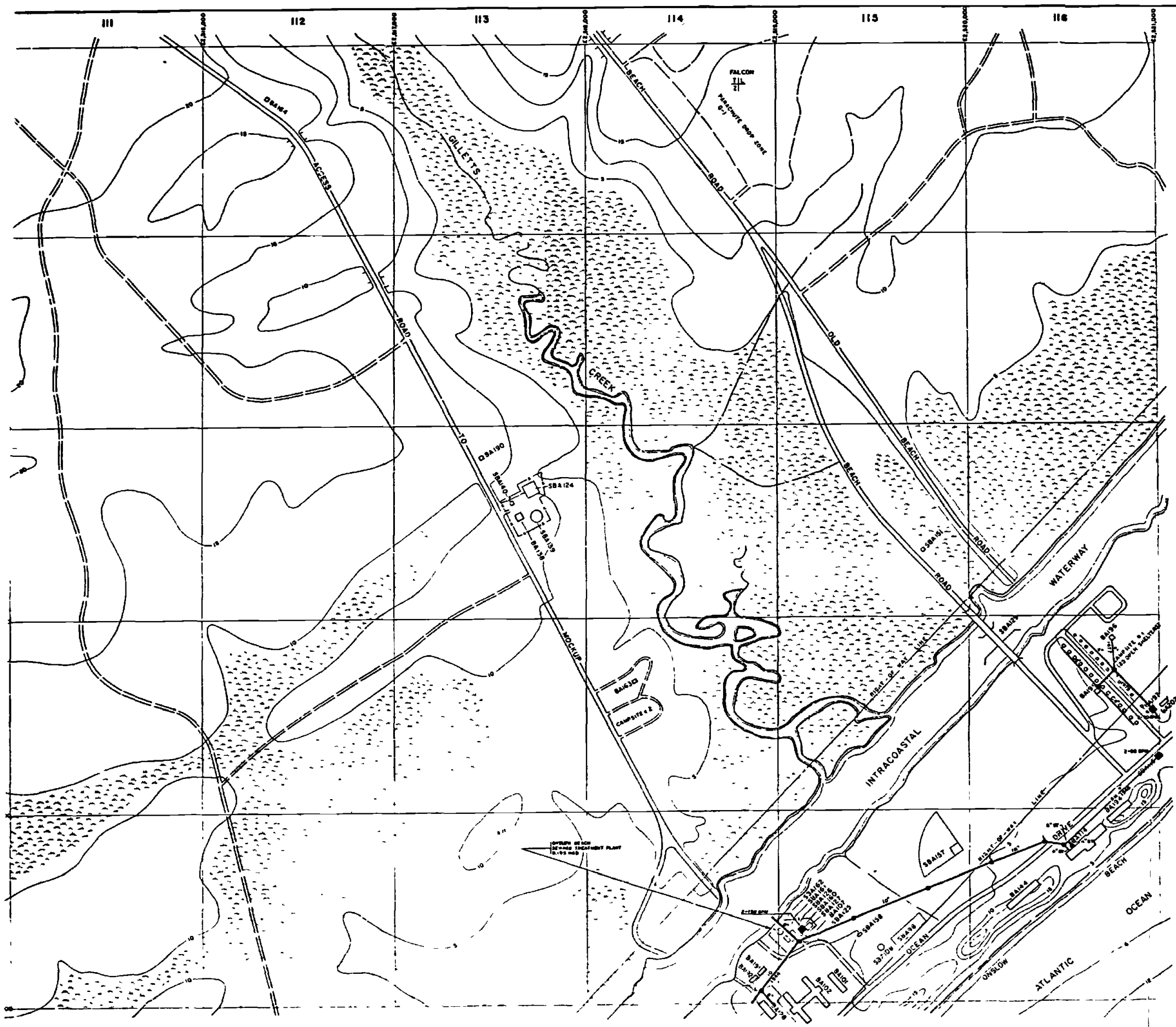
NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE: 31 JULY 68 SCALE: GRAPHIC SHEET: N-7 OF 73
 APPROVED: DATE: 000 000 000

D1742



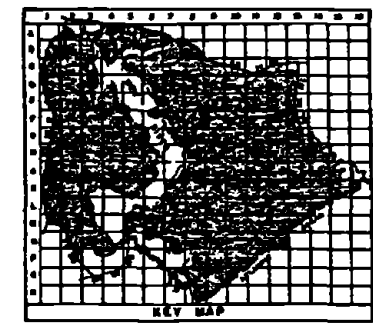
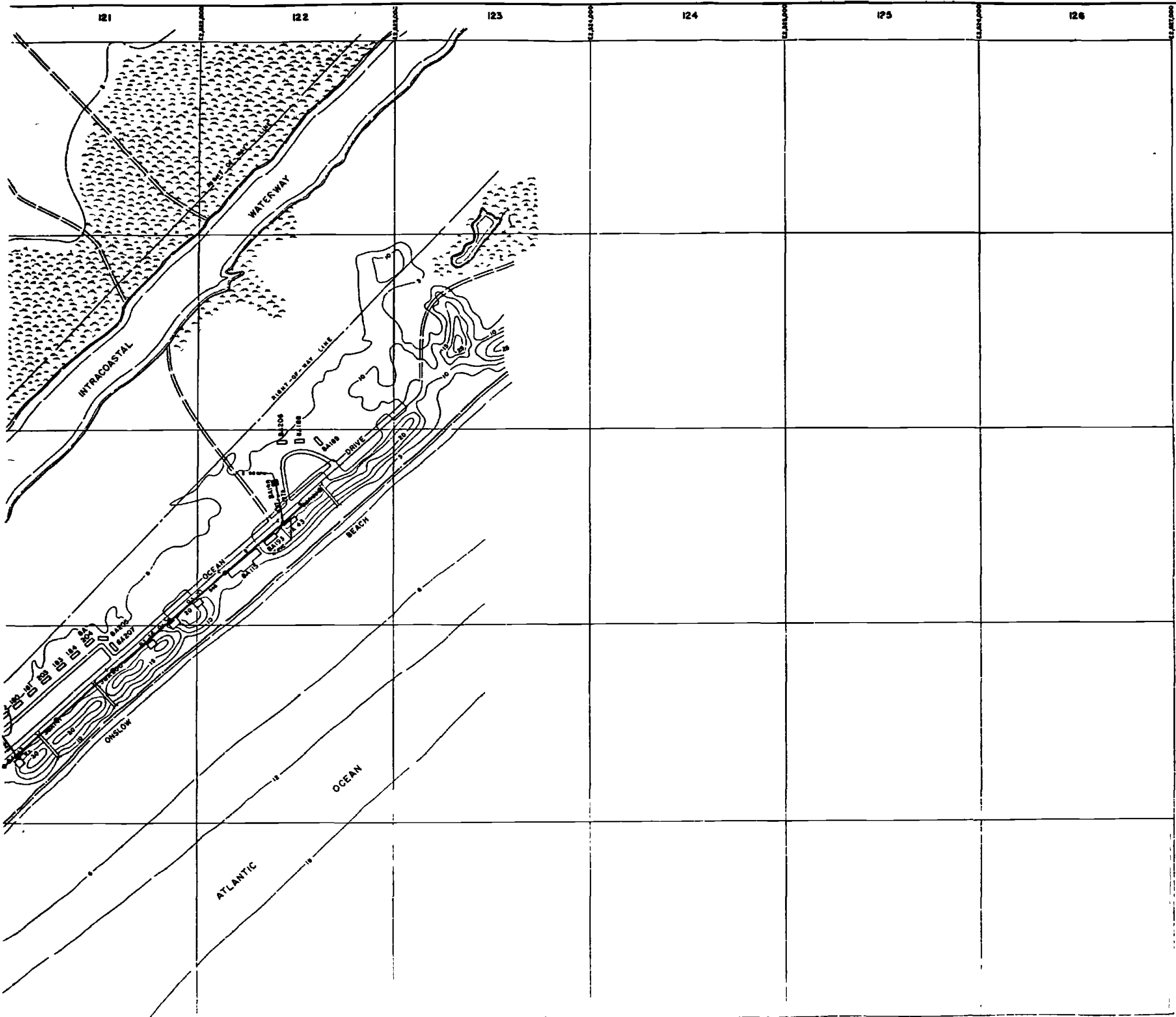
- LEGEND**
- [Symbol] BUILDINGS AND STRUCTURES
 - [Symbol] ROADS AND HIGHWAYS
 - [Symbol] ROADS (Unpaved)
 - [Symbol] FENCE
 - [Symbol] 5' CONTOUR (Source- USGS Map)
 - [Symbol] TACTICAL LANDING ZONE
 - [Symbol] RESERVATION BOUNDARY
 - [Symbol] SWAMP OR MARSH
 - [Symbol] SANITARY SEWER
 - [Symbol] MANHOLE
 - [Symbol] SERVICE LINE
 - [Symbol] FORCE MAIN
 - [Symbol] SEWAGE PUMPING STATION

MATERIAL OF CONSTRUCTION
 SP - STEEL

NOTES:
 ALL SHOWN SEWERS AND FORCE MAINS SHALL BE 18" DIA.



NO.	DESCRIPTION OF SERVICE	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE	SCALE	SHEET	OF
MAY 06	GRAPHIC	N-11	73
APPROVED / DATE	[Signature]		

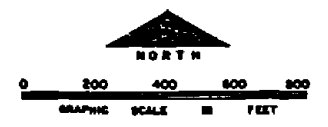


LEGEND

- BUILDINGS AND STRUCTURES
- ROADS AND HIGHWAYS
- ROADS (Unpaved)
- FENCE
- 5' CONTOUR (Source - USGS Maps)
- RESERVATION BOUNDARY
- SWAMP OR MARSH
- SANITARY SEWER
- MANHOLE
- SERVICE LINE
- FORCE MAIN
- SEWAGE PUMPING STATION

MATERIAL OF CONSTRUCTION
 PVC - POLYETHYLENE GLYCOLINE
 ST - STEEL

NOTE:
 ALL SANITARY SEWERS ARE TYPED WITH UNLINED
 UNLESS OTHERWISE NOTED OTHERWISE



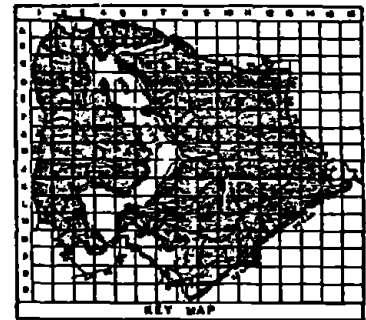
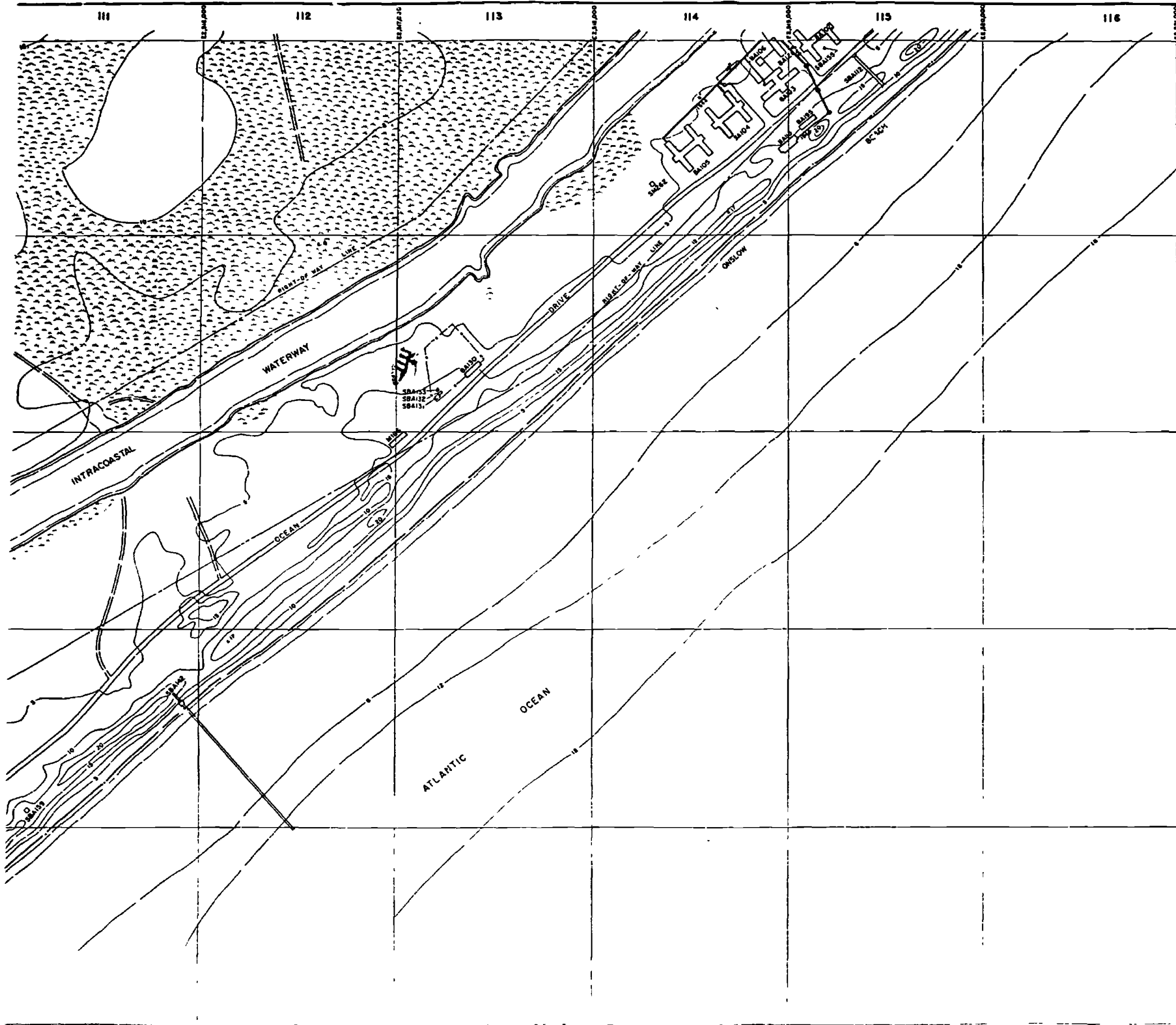
NO.	DESCRIPTION OF DEVIATION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE, NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE 31 JULY 68 SCALE GRAPHIC SHEET N-12 OF 73
 APPROVED/DATE 08082

D1767



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source - USGS Maps)
 - RESERVATION BOUNDARY
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE

MATERIAL OF CONSTRUCTION
 VC - WETLAND CLAY

NOTES
 ALL SANITARY SEWERS ARE TYPED WITH UNLESS NOTED OTHERWISE

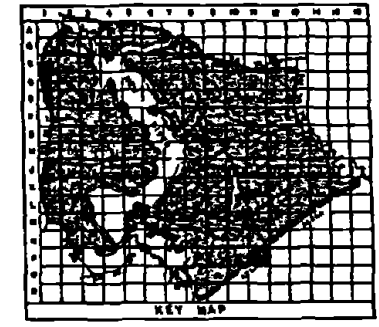
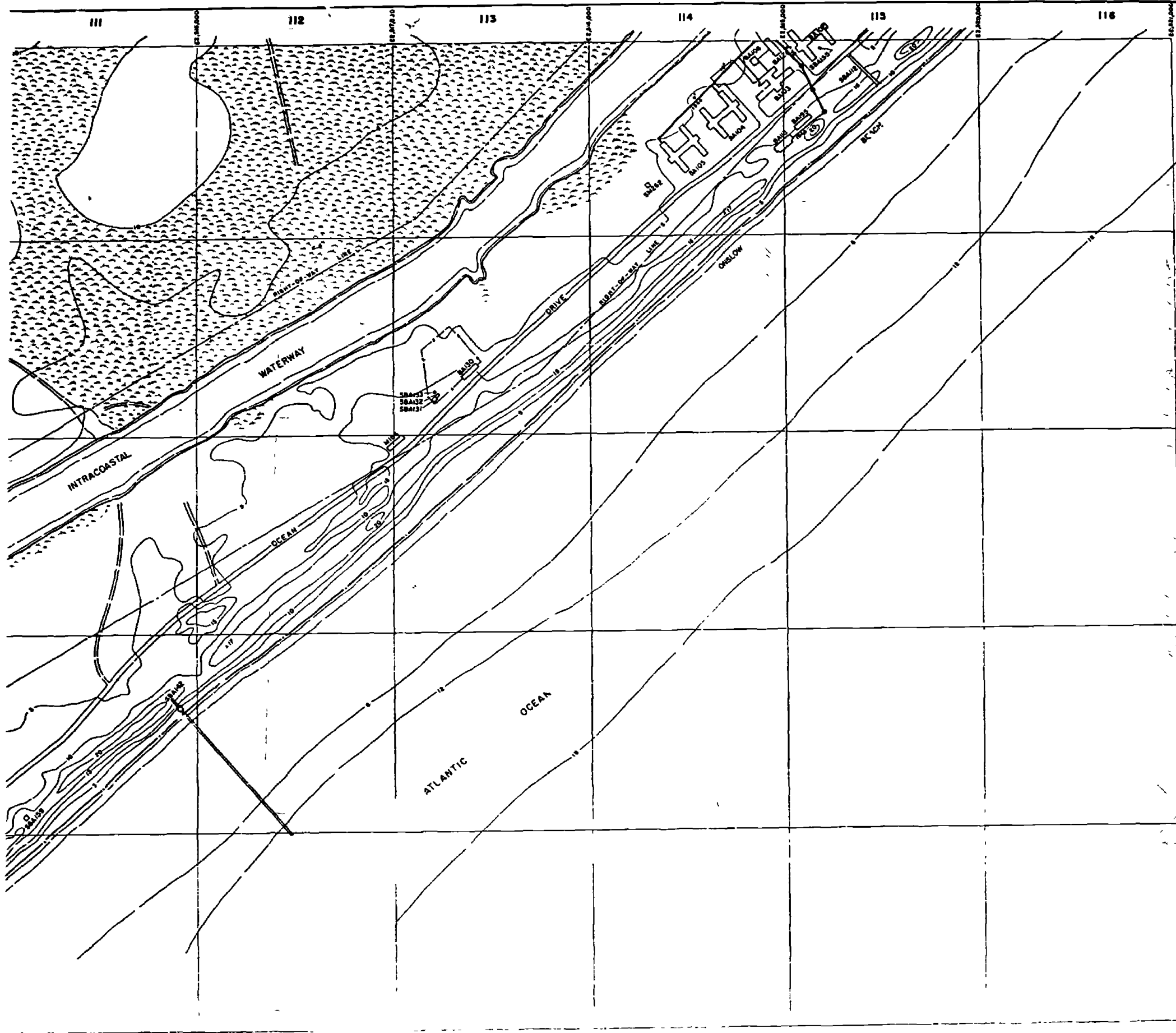


NO.	DESCRIPTION OF REVISION	DATE	BY

DEPARTMENT OF THE NAVY
 MARINE CORPS BASE
 CAMP LEJEUNE NORTH CAROLINA

WASTEWATER COLLECTION SYSTEM
 EXISTING CONDITIONS

DATE 31 JULY 64 SCALE GRAPHIC SHEET P-11 of 73
 APPROVED / BASE 00000084



- LEGEND**
- BUILDINGS AND STRUCTURES
 - ROADS AND HIGHWAYS
 - ROADS (Unpaved)
 - FENCE
 - 5' CONTOUR (Source - USGS Map)
 - RESERVATION BOUNDARY
 - SWAMP OR MARSH
 - SANITARY SEWER
 - MANHOLE
 - SERVICE LINE

LIMIT OF DISTURBANCE
VI - WETTED CLAY

NOTE: ALL QUALITY RECORDS ARE TERMS OF THE UNLESS NOTED OTHERWISE.



NO.	DESCRIPTION OF REVISION	DATE	BY
DEPARTMENT OF THE NAVY MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
WASTEWATER COLLECTION SYSTEM EXISTING CONDITIONS			
DATE: 31 JULY 64	SCALE: GRAPHIC	SHEET P-II OF 73	
APPROVED / DATE:	000000B+		

D1782