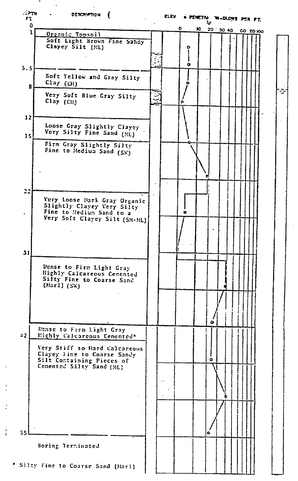
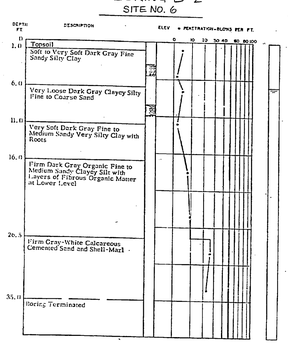
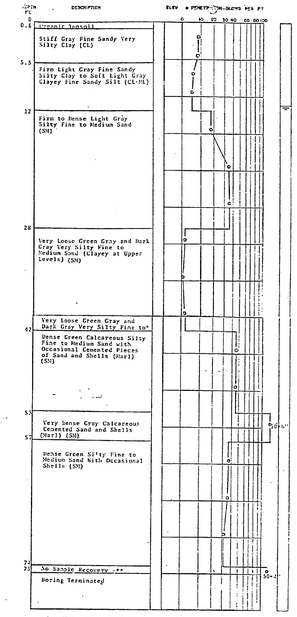
BORING B-1
SITE NO. 2



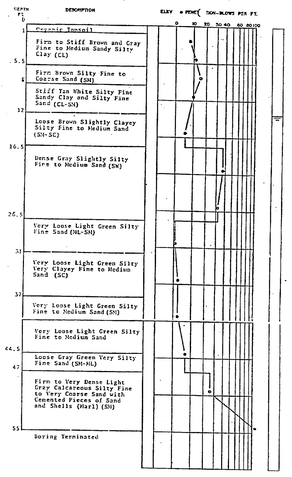
BORING B-2
SITE NO. 6



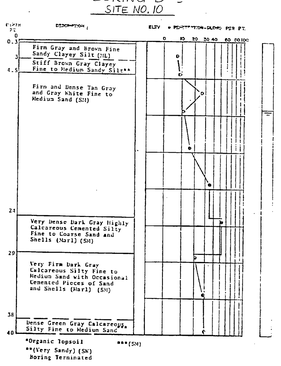
BORING B-3
SITE NO. 9



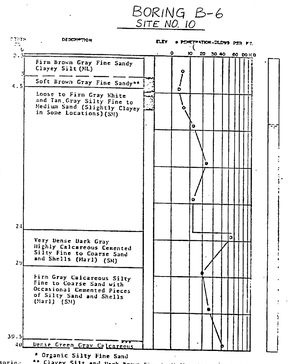
BORING B-4
SITE NO. 9



BORING B-5
SITE NO. 10



BORING B-6
SITE NO. 10



Boring locations etc.

GENERAL NOTES

1. BORINGS ADVANCED BY HOLLOW STEM AUGERING
2. "PENETRATION - BLOWS PER FOOT" COLUMN INDICATES DEPTH OF SAMPLE AND NUMBER OF BLOWS REQUIRED TO DRIVE A 2" O.D. SPLIT SPOON SAMPLER ONE FOOT INTO UNDISTURBED SOIL WITH A 140 LB. HAMMER FALLING 30" AS PER ASTM D-1586.
3. ML, SP, CL, ETC. FROM UNIFIED SOIL CLASSIFICATION SYSTEM DESCRIPTION OF SOIL IN ACCORDANCE WITH BURMISTERS CLASSIFICATION ON BASIS OF VISUAL ESTIMATE BY DRILLER.
4. ALL DEPTHS AND LOCATIONS ARE APPROXIMATE
5. BORING LOGS PROVIDED BY GOVERNMENT FROM BORING LOGS ON RECORD IN LANTDIV CODE 411 OFFICE FILES. LOGS ON RECORD AVAILABLE FOR INSPECTION AT BIDDERS REQUEST

LEGEND FOR LOGS - THIS SHEET ONLY

- WATER TABLE @ 24 HRS
- WATER TABLE @ 1 HR.
- UNDISTURBED SAMPLE

BORING	DRILLED BY AND DRILL DATE	FOR BORING LOCATION, SEE SHT.
B-1	LAN ENG'NG TESTING CO. 4/67	C-1
B-2	" 1/15	C-2
B-3	" 4/67	C-2
B-4	" 4/67	C-2
B-5	" 4/67	C-3
B-6	" 4/67	C-3

GRAPHIC SCALE
5 0 5 10 15 20
1"=5'

REVISIONS

STA.	DESCRIPTION	DATE	APPVD

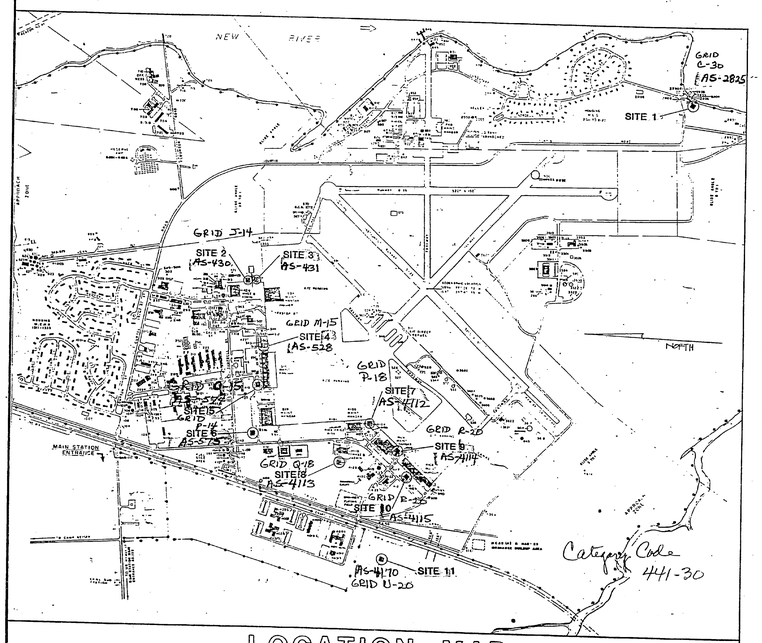
B-1

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.
MCAS(H) NEW RIVER - JACKSONVILLE, N.C.
HAZARDOUS / FLAMMABLE MATERIALS STOREHOUSES
BORING LOGS
SIZE F | CODE IDENT. NO. 80091 | DRAWING NO. 411G151
SCALE AS NOTED | SPEC 05-85-3109 | SHEET 2 OF 14

APPROVED
DATE
ACTIVITY: SATISFACTORY TO
CONTRACT NO.

HAZARDOUS / FLAMMABLE MATERIALS STOREHOUSES

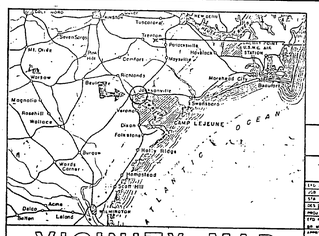
MARINE CORPS AIR STATION (HELICOPTER)
NEW RIVER - JACKSONVILLE, NORTH CAROLINA



LOCATION MAP

DRAWING INDEX

SHEET	DRD	NAVFAC	TITLE
T-1	216150	411G150	TITLE SHEET
D-1	216151	411G151	BORING LOG
D-2	216152	411G152	BORING LOG
CE-1	216153	411G153	CIVIL ELECTRICAL SITE PLAN
CE-2	216154	411G154	CIVIL ELECTRICAL SITE PLAN
CE-3	216155	411G155	CIVIL ELECTRICAL SITE PLAN
CE-4	216156	411G156	CIVIL DETAILS
A-1	216157	411G157	PLANS & ELEVATIONS
A-2	216158	411G158	PLANS & ELEVATIONS
A-3	216159	411G159	SECTIONS & DETAILS
S-1	216160	411G160	FOUNDATION PLAN & DETAILS
S-2	216161	411G161	ROOF FRAMING PLAN & DETAILS
M-1	216162	411G162	PLANS & DETAILS
E-1	216163	411G163	PLANS, SCHEDULES AND DETAILS



VICINITY MAP

CCD 5-2-86
Eng Cardell
B. Canady

P-358

T-1

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.
MCAS(H) NEW RIVER - JACKSONVILLE, N.C.
HAZARDOUS / FLAMMABLE MATERIALS STOREHOUSES
TITLE SHEET
SIZE F | CODE IDENT. NO. 80091 | DRAWING NO. 411G150
SCALE AS NOTED | SPEC 05-85-3109 | SHEET 1 OF 14

BORING B-7
SITE NO. 11

DEPTH FT.	DESCRIPTION		ELEV	PENETRATION BLOWS PER FT.	BLOWS PER 6 INCHES	REC
0 – 0.5	Leaves, Roots, and Topsoil					
0.5	Firm Gray and Tan Fine Sandy CLAY	CL			2-3-4	18
					3-3-5	18
5.5	Firm Tan Slightly Silty Fine SAND	SP			9-11-12	10
8	Firm Light Gray Fine Sandy Clayey SILT	ML			4-3-4	14
12	Dense Gray and Tan Fine SAND	SP			15-20-23	15
					10-16-17	14
22	Firm Dark Gray Clayey SILT	MH			2-4-4	18
27	Firm Tannish Orange Fine Sandy SILT	ML			3-5-5	18
29	Firm Gray Silty Fine SAND with Traces of Cemented Particles, Gravel, and Shell	SM			12-16-19	16
	Becomes Dense Below 33 Feet				14-17-23	16
40						

Boring Terminated at 40 Feet

Water level at 6' at termination of boring and at 11' after 24 hours.
Water at 4.8' three days after heavy rain.

BORING AND SAMPLING MEETS ASTM D-1586
CORE DRILLING MEETS ASTM D-2113
PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.
UNDISTURBED SAMPLE — WATER TABLE, 24 HR.
50% ROCK CORE RECOVERY — WATER TABLE, 1 HR.

BORING B-8
SITE NO. 5

WATER LEVEL	-3.7'	-2.6'	-1.7'
TIME	9:30	12:30	4:00
DATE	5-11-61	5-11-61	5-11-61

Depth of Casing, ft.	Sample No.	Sample depth (in feet)	Blows/foot on Sampler	ID of Sampler (inches)	Length of Lab. sample	DEPTH IN FEET	DESCRIPTION (Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths wash water lost, observed fluctuations in water level, notes on drilling ease, etc.)
		1.5-2	4			2	
	21-1	2-3	10	12"		3	LOOSE CONSISTENCY; SANDY SILT WITH CLAY
							HIT WATER AT 3.75'
		4.5-5				5	
	21-2	5-6		12"		6	LOOSE; TAN SANDY SILT WITH CLAY
		9.5-10	6			10	
	21-3	10-11	14	12"		11	MEDIUM; GRAY, SILTY SAND
		14.5-15	4			15	
	21-4	15-16	2	12"		16	LOOSE; GRAY SILTY SAND - VERY FINE GRAINED
		19.5-20	2			20	
	21-5	20-21	3	12"		21	VERY LOOSE; AS ABOVE
		24.5-25	2			25	
	21-6	25-26	3	12"		26	LOOSE; FINE GRAY SILTY SAND WITH CLAY
		29.5-30	17			30	HIT DENSE STRATA AT 29.5'
	21-7	30-31	23	12"		31	MEDIUM; LIGHT GRAY LIMESTONE & MARL
		34.5-35	31			35	
	21-8	35-36	60/7	7"		36	VERY DENSE; HARD MARL 60 BLOWS - 7" PENETRATION
		39.5-40				40	
	21-9	40-41	60/8	7"		41	VERY DENSE; AS ABOVE 60 BLOWS WITH 6" PENETRATION BORING TERMINATED AT 41.0'

BORING ADVANCED BY AUGER.

BORING B-9
SITE NO. 4

WATER LEVEL	-5.3'	-4.8'	-4.7'
TIME	9:15	12:30	4:30
DATE	5-9-61	5-9-61	5-9-61

Depth of Casing, ft.	Sample No.	Sample depth (in feet)	Blows/foot on Sampler	ID of Sampler (inches)	Length of Lab. sample	DEPTH IN FEET	DESCRIPTION (Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths wash water lost, observed fluctuations in water level, notes on drilling ease, etc.)
		1.5-2	2			2	
	22-1	2-3	4	12"		3	SOFT CONSISTENCY; TAN, SILTY CLAY
		4.5-5	2			5	HIT WATER @ 5.3'
	22-2	5-6	3	12"		6	SOFT; AS ABOVE
		9.5-10	8			10	
	22-3	10-11	17	12"		11	MEDIUM; GRAY, SILTY SAND
		14.5-15	9			15	
	22-4	15-16	20	12"		16	MEDIUM; AS ABOVE
		19.5-20	4			20	
	22-5	20-21	9	12"		21	LOOSE; FIRM, GRAY SILTY SAND
		24.5-25	4			25	
	22-6	25-26	8	12"		26	LOOSE GRAY SILTY SAND
		29.5-30	4			30	
	22-7	30-31	9	12"		31	LOOSE; AS ABOVE
							HIT FIRM STRATA AT 32.5'
		34.5-35	28			35	
	22-8	35-36	60/10	10"		36	VERY DENSE; FIRM MARL 60 BLOWS WITH 10" PENETRATION - HARD DRILLING
		39.5-40	30			40	
	22-9	40-41	60/6	6"		41	VERY DENSE; AS ABOVE 60 BLOWS WITH 6" PENETRATION BORING TERMINATED AT 41.0'

BORING ADVANCED BY AUGER.

BORING B-10
SITE NO. 7

LOG — W.R. 71-572 — J.O. 51228378
LOCATION: M.C.A.S. NEW RIVER, N.C.
BORING NO. 2 — SURFACE ELEVATION — WATER TABLE 11.3' @24 HRS.
DATE STARTED 25 APRIL 1972 — DATE FINISHED 25 APRIL 1972 — BORING METHOD wash & penetration sampler
DRILLING AGENCY LANTDIV L11 — DRILLER Jennings & Hooper

SAMPLE NO.	DEPTH	BLOWS*	DEPTH OF STRATA	DESCRIPTION OF MATERIAL	REMARKS
	0' - 1'	1/1	0' - 3'	SAND fine to medium, little silt, first foot very organic, gray.	wet loose
1	1' - 2'	2/3			
	2' - 3'	5/6	3' - 5'	SAND fine to medium, some silt, gray.	damp medium dense
	3' - 4'	4/4			loose
	4' - 5'	5/4			
2	5' - 6'	5/5	5' - 7.5'	CLAY, trace fine sand, trace organic, gray & tan.	damp stiff
	6' - 8'	5/5			
3	7' - 8'	8/5	7.5' - 13'	SAND fine to medium, some clay, tan.	wet medium dense
	8' - 9'	7/7			
	9' - 10'	5/5			
	10' - 11'	3/3			loose
	11' - 12'	2/3			
4	14' - 15'	5/8 13/16	13' - 31'	SAND fine to medium, trace silt, gray.	medium dense
	19' - 20'	5/5 7/9			
	24' - 25'	1/3 woh	25.5'	same with little silt, dark gray.	loose
	29' - 31'	woh			loose
5	34' - 36'	16/12 12/15	31' - 41'	SILTY SAND fine to coarse with marl, little small gravel, trace shell, gray.	medium dense
	39' - 41'	16/12 27/22			dense
6	44' - 46'	24/13 31/23	41' - 46'	SAND fine to medium, trace silt, trace shell, gray.	medium dense
				B.T. 46 FEET	

* BLOWS COLUMN INDICATES NO. OF BLOWS REQUIRED TO DRIVE A 2" O.D. SAMPLER 6" WITH A 140 LB. HAMMER FALLING 30".
BORING PERFORMED USING WASH AND PENETRATION SAMPLE METHOD

BORING B-11
SITE NO. 8

Lease No. WIS 7391 — Date 5/23/68
Made for: Henry von Oesen & Associates, Wilmington, N. C.
Project: R.Y.O.S-665 New River Air Facility
Hole No. 1 — Total Depth 25' — Elevation Top of Hole 22.6 — Hole Location See map
Type of Boring 2½" Casing — Started 5/22/68 — Completed 5/22/68 — Driller Jones

CLASSIFICATION OF MATERIALS (Description)	*Sample Blows	Elevation	REMARKS
Topsoil		21.1	Water table at 0 hours 10'
Multicolored sandy clay	4, 4		
Tan fine grain sand	7	15.1, 14.1	
Tan fine to coarse grain sand	9	8.6	
Greenish fine grain sand	9, 10	-0.4	
Dark silty sand	5	-2.4	

Boring terminated at 25'

* IS NUMBER OF BLOWS REQUIRED TO DRIVE 1.4 IN I.D. SAMPLER 1 FT USING 140 LB HAMMER FALLING 30 IN.

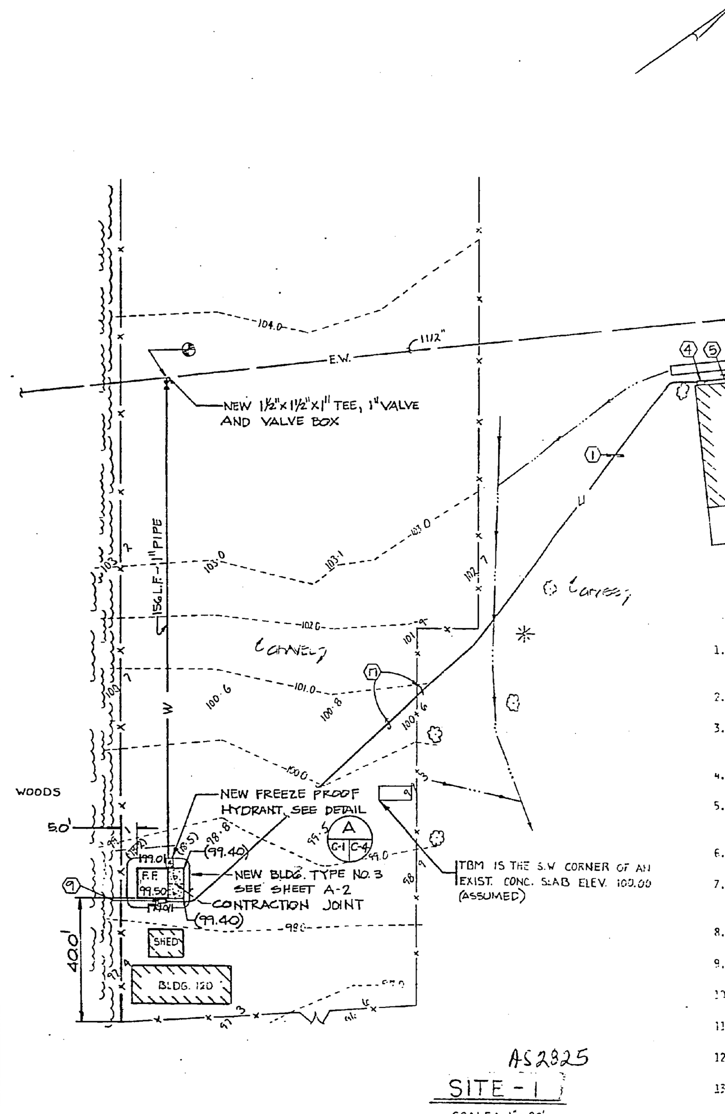
BORING B-12
SITE NO. 1

Ground Elev 10.90	DESCRIPTION
Elev 9.90	COARSE YELLOW SAND
Elev 6.40	RED SAND AND CLAY COARSE
Elev 4.40	RED SAND
WATER / Elev 1.40	YELLOW SAND

BORING	DRILLED BY AND DRILL DATE		FOR BORING LOCATION, SEE SHT.
B-7	LAW ENG'NG TESTING CO	9/77	C-3
B-8	PITTSBURGH TESTING LAB	6/61	C-2
B-9	" " "	6/61	C-2
B-10	U.S. GOV'T (LANTDIV)	4/72	C-2
B-11	FROEHLING & ROBERTSON, INC.	5/68	C-3
B-12	U.S. GOV'T (LANTDIV)	10/60	C-1

NOTES
1. UNLESS NOTED OTHERWISE, GENERAL NOTES OF PREVIOUS SHEET APPLY
2. ALL BORING LOGS THIS SHEET NOT TO SCALE
3. BORING B-12 ADVANCED USING HAND AUGER

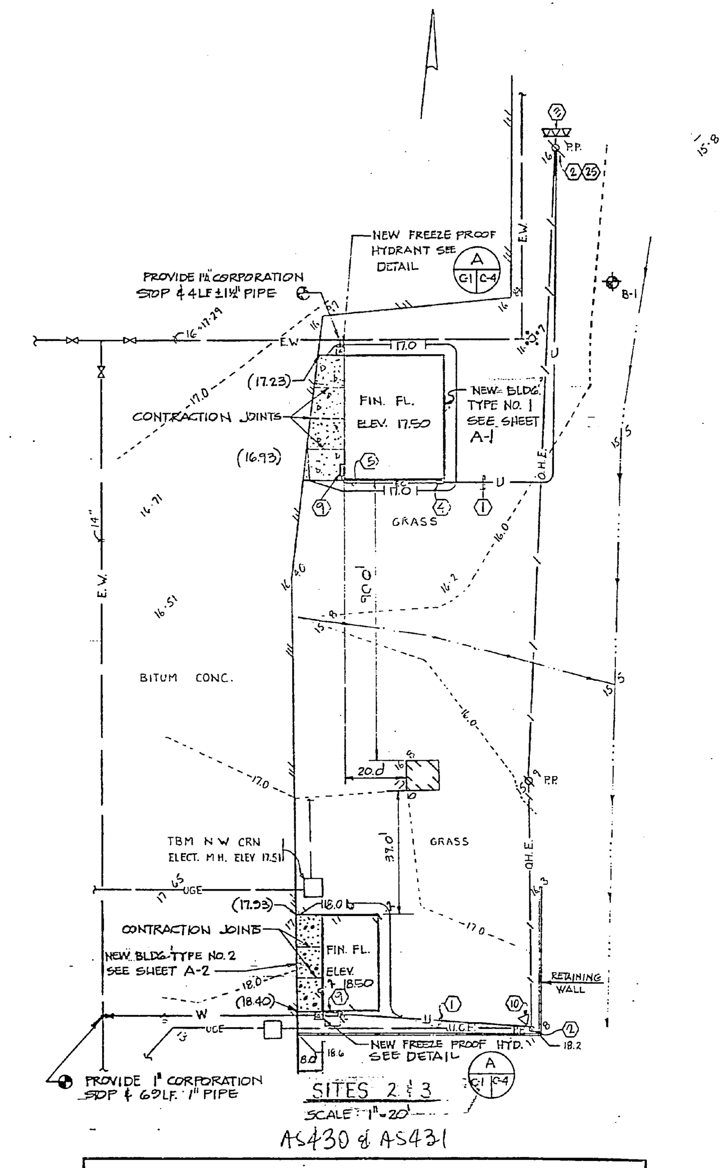
B-2
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION — NORFOLK, VA.
MCAS (H) NEW RIVER - JACKSONVILLE, N.C.
HAZARDOUS/FLAMMABLE MATERIALS STOREHOUSES
BORING LOGS
EFD DWG NO 2161[illegible] — JOB ORDER NO 5F3109 — DES. DGB — DRWN DSE — CODE IDENT NO 80091 — NAVFAC DRAWING NO 4116152 — SIZE F
CONSTR. CONTR. NO. N62470-83-B-3109 — SCALE AS NOTED — SPEC 05-83-3109 — SHEET 5 OF 14
ACTIVITY - SATISFACTORY TO — DATE 1 JAN 1985



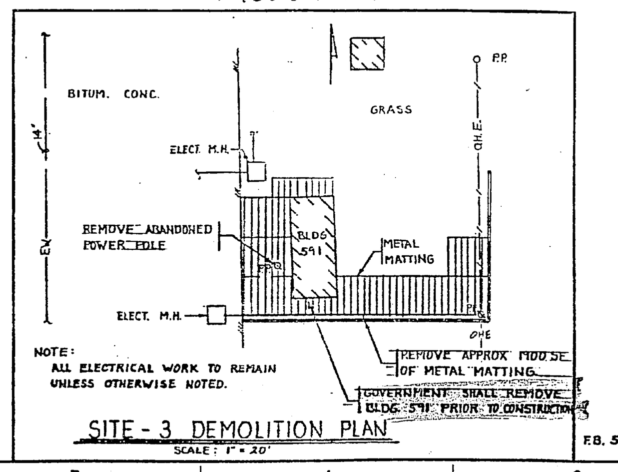
AS2325
SITE - 1
SCALE: 1" = 20'

CIVIL NOTES
1. TEMPORARY BENCHMARKS ARE BASED ON STATION BENCHMARK S-13, ELEVATION 17.303 EXCEPT SITE 1 TBM WHICH WAS ASSUMED TO BE 100.00
2. PATCH DISTURBED PAVEMENT IN ACCORDANCE WITH TYPICAL PAVEMENT PATCH DETAIL
3. TOPSOIL, SEED, AND FERTILIZE NEWLY GRADED AREAS DISTURBED BY CONSTRUCTION.
4. ALL CONNECTIONS MADE TO EXISTING WATERMAINS SHALL BE MADE UNDER PRESSURE.

ELECTRICAL NOTES
(SITE PLANS ONLY. SEE SHEET C1, C2, C3)
1. PROVIDE 3-#6 & 1 #8 GND 1" CONDUIT U.G.
2. PROVIDE SECONDARY RISER UP POLE W/WEATHERHEAD - 1" C.
3. EXIST POLE MOUNTED TRANSFORMERS WITH 120/208 VOLT, 3 Ø, 4W SECONDARY.
4. PROVIDE 8"x 8"x 4" WEATHER PROOF JUNCTION BOX 18" A.F.G.
5. PROVIDE 3-#6 IN 1" R. S. CONDUIT RUN EXPOSED ON SIDE OF BUILDING.
6. EXIST POLE MOUNTED TRANSFORMERS WITH 480 VOLT, 3Ø, 3W SECONDARY.
7. PROVIDE 2-#8 IN 1" CONDUIT U.G. CONNECT TO EXIST 480 VOLT SERVICE.
8. PROVIDE 480 VOLT, 2 POLE DISCONNECT SWITCH NEMA 3R ENCLOSURE. SEE SHEET E-1
9. PROVIDE POWER PANEL (SEE SHEET E-1)
10. EXIST POLE MOUNTED TRANSFORMER 120/240 VOLT, 1Ø, 3W SECONDARY.
11. PROVIDE #6 COPPER TRIPLEX SECONDARY.
12. PROVIDE "STDE" POLE HARDWARE AT EXIST POLE (SEE LANTDIV SKETCH).
13. PROVIDE 40' CLASS 3 WOOD POLE WITH "STDE" POLE HARDWARE. (SEE LANTDIV SKETCHES)
14. CONNECT TO TRIPLEX SECONDARY SERVICE
15. PROVIDE 5/16" GUY WITH 8" SCREW ANCHOR.
16. EXISTING #6 TRIPLEX SECONDARY.
17. ENCASE CONDUIT IN 3" MINIMUM CONCRETE ENVELOPE UNDER GRAVEL & PAVED AREAS.
18. PROVIDE 60 AMP 2 POLE 240 VOLT DISCONNECT SWITCH NEMA 3R ENCLOSURE PROVIDE 3-#6 IN 1" CONDUIT WITH WEATHER HEAD AND CONNECT TO EXIST 4/0 TRIPLEX SERVICE DROP.
19. PROVIDE 2-#8 AND 1-#8 GROUND IN 1" R. S. CONDUIT EXPOSED ON SIDE OF BUILDING. CONNECT TO NEW 30 AMP 2 POLE CIRCUIT BREAKER IN EXIST PANEL.
20. EXISTING 277/480 VOLT, 3Ø, 4W PANEL. PROVIDE 30 AMP, 2 POLE CIRCUIT BREAKER IN EXIST SPACE FOR NEW SERVICE TO FLAMMABLE STORAGE BUILDING.
21. REMOVE EXIST STREET LIGHTING CIRCUIT BACK TO NEXT POLE.
22. DISCONNECT EXISTING TRIPLEX FROM STREET LIGHTING CIRCUIT AND CONNECT TO SECONDARY OF NEW TRANSFORMER.
23. REWORK EXISTING POLE AND PROVIDE NEW CONFIGURATION AS INDICATED. SEE LANTDIV SKETCHES
24. TRANSFORMER BANK TO BE PROVIDED UNDER CONTRACT N62470-82-2354 "UTILITY SUPPORT FOR MOBILE MAINTENANCE VANS."
25. CONNECT TO 2 PHASES AND NEUTRAL OF EXIST 120/208V TRANSFORMER BANK.



SITES 2 & 3
SCALE 1" = 20'
AS430 & AS431



SITE - 3 DEMOLITION PLAN
SCALE: 1" = 20'

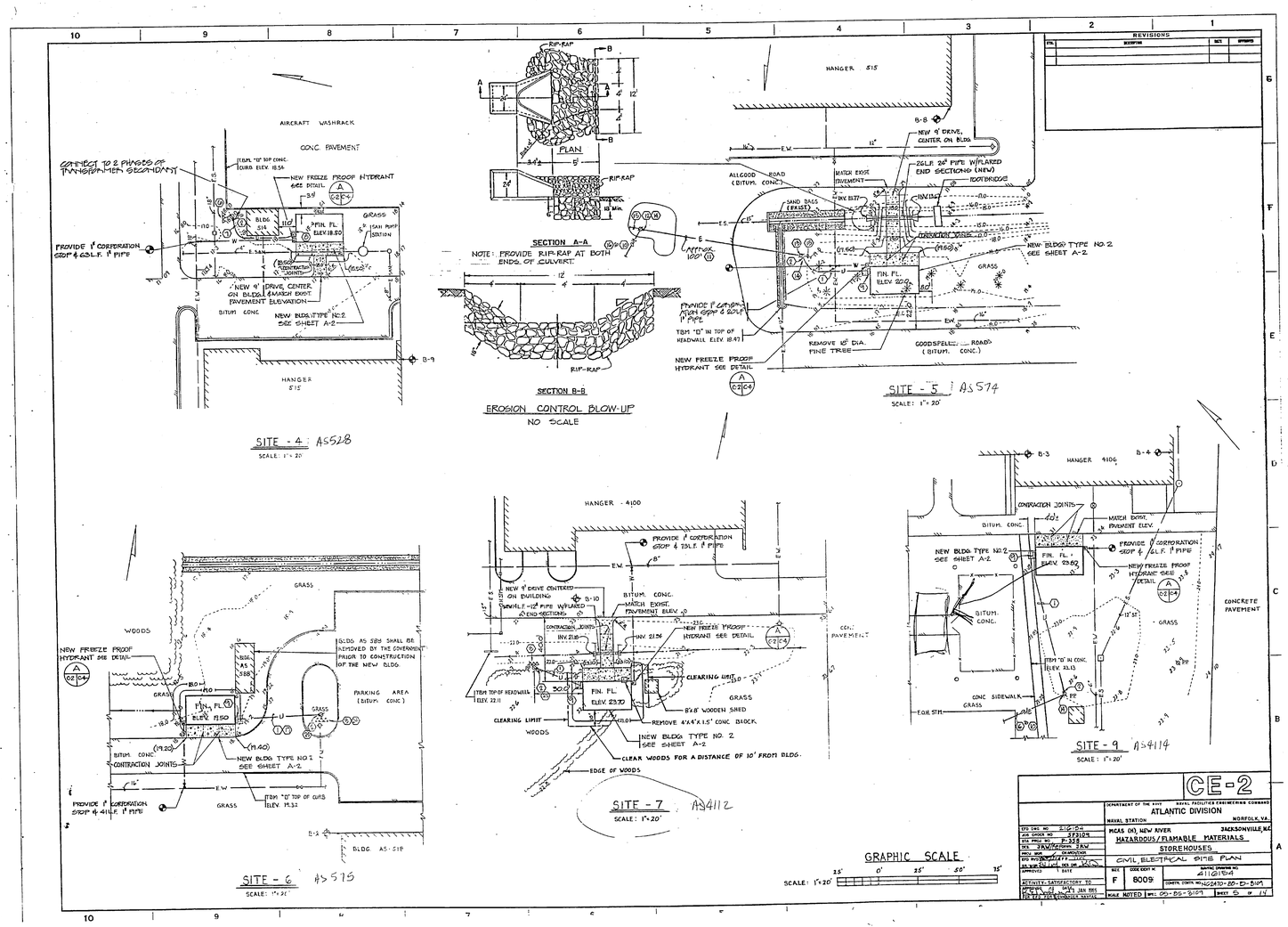
F.B. 536

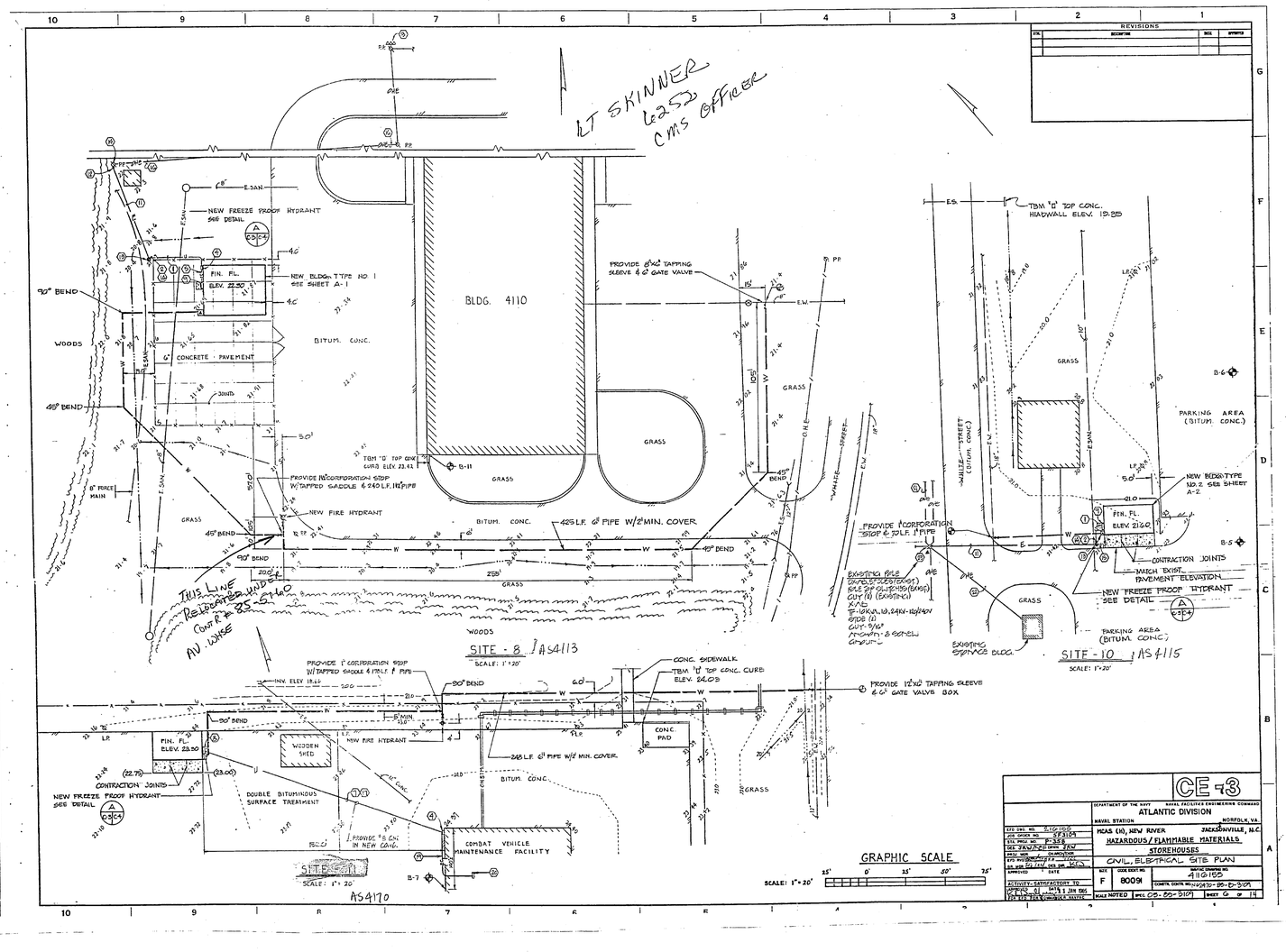
LEGEND

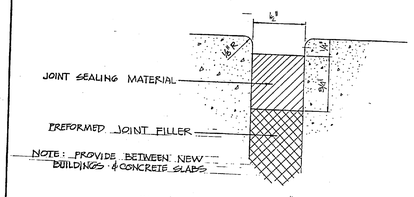
EXIST		NEW
15.50	ELEVATION	(15.50)
---15.50---	CONTOUR	—15.50—
	DITCH	
—EW—	WATER LINE	—W—
	VALVE & VALVE BOX	
	POST INDICATOR VALVE	
	FIRE HYDRANT	
	CATCH BASIN	
	MANHOLE	
—E.S.—	STORM DRAIN LINE	
—E.SAN.—	SANITARY DRAIN LINE	
—O.H. STM.—	OVERHEAD STEAM LINE	
Ø	POWER OR LIGHT POLE	●
-/-O.H.E.-/-	OVERHEAD ELECTRICAL LINE	—E—
	CONCRETE	
	BITUMINOUS CONCRETE	
	BUILDING	
	WOOD LINE	
	TREE - DECIDUOUS	
	TREE - EVERGREEN	
—x—x—	CHAIN LINK FENCE	
	SOIL BORING	
	POINT OF CONNECTION	
	CONTRACTION JOINT	
▷	POLE MOUNTED TRANSFORMER	▶
	POWER PANEL	
	DISCONNECT SWITCH	
	GUY	
	EXPOSED ELECTRICAL CONDUIT	—EC—
—UGE—	UNDERGROUND ELECTRIC LINE	—U—

1" = 20' — 25' 0 25' 50' 75'

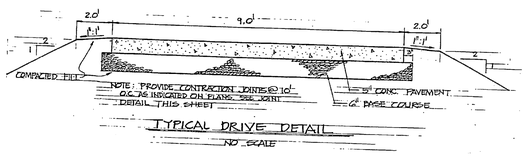
CE-1
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION — NORFOLK, VA.
MCAS (H), NEW RIVER — JACKSONVILLE, N.C.
HAZARDOUS / FLAMMABLE MATERIALS STOREHOUSES
CIVIL, ELECTRICAL SITE PLAN
EFD DWG. NO. 216153 — JOB ORDER NO. 5F3109 — STA PROJ. NO. P-358 — DES. JRW/KCF — DRWN JRW — CODE IDENT NO 80091 — NAVFAC DRAWING NO 4116153 — SIZE F
CONSTR. CONTR. NO. N62470-85-B-3109 — SCALE NOTED — SPEC 05-85-3109 — SHEET 4 OF 14
ACTIVITY - SATISFACTORY TO — DATE 1 JAN 1985


REVISIONS
NO. DESCRIPTION DATE APPROVED
AIRCRAFT WASHRACK
CONC. PAVEMENT
CONNECT TO 2 PHASES OF TANKFARM #1 SECONDARY
NEW FREEZE PROOF HYDRANT SEE DETAIL
PROVIDE 1" CORPORATION STOP & 65 L.F. 1" PIPE
BLDG. S14
FIN. FL. ELEV. 18.50
GRASS
TBM "D" TOP CONC. CURB ELEV. 18.54
NEW 9' DRIVE CENTER ON BLDG. MATCH EXIST. PAVEMENT ELEVATION
BITUM. CONC.
NEW BLDG. TYPE NO. 2 SEE SHEET A-2
HANGER 515
SITE - 4 AS528
SCALE: 1" = 20'
RIP-RAP
FLAN
SECTION A-A
NOTE: PROVIDE RIP-RAP AT BOTH ENDS OF CULVERT.
SECTION B-B
EROSION CONTROL BLOW-UP
NO SCALE
HANGER 515
B-8
NEW 9' DRIVE, CENTER ON BLDG
26 L.F. 26" PIPE W/FLARED END SECTIONS (NEW)
ALLGOOD ROAD (BITUM. CONC.)
MATCH EXIST. PAVEMENT
SAND BAGS (EXIST.)
INV. 8177
CULVERT
FOOTBRIDGE
CONTRACTION JOINTS
NEW BLDG. TYPE NO. 2 SEE SHEET A-2
FIN. FL. ELEV. 22.20
GRASS
PROVIDE 1" CORPORATION WITH STOP & GOOSE 1" PIPE
TBM "D" IN TOP OF HEADWALL ELEV. 18.47
REMOVE 16" DIA. PINE TREE
GOODSPELL ROAD (BITUM. CONC.)
NEW FREEZE PROOF HYDRANT SEE DETAIL
SITE - 5 AS574
SCALE: 1" = 20'
WOODS
GRASS
NEW FREEZE PROOF HYDRANT SEE DETAIL
BLDG. AS-515 SHALL BE REMOVED BY THE GOVERNMENT PRIOR TO CONSTRUCTION OF THE NEW BLDG.
PARKING AREA (BITUM. CONC.)
FIN. FL. ELEV. 19.50
NEW BLDG. TYPE NO. 2 SEE SHEET A-2
CONTRACTION JOINTS
PROVIDE 1" CORPORATION STOP & 41 L.F. 1" PIPE
TBM "D" TOP OF CURB ELEV. 19.32
BLDG. AS-515
SITE - 6 AS515
SCALE: 1" = 20'
HANGER - 4100
PROVIDE 1" CORPORATION STOP & 135 L.F. 1" PIPE
NEW 9' DRIVE CENTERED ON BUILDING
SINGLE 24" PIPE W/FLARED END SECTIONS
B-10
BITUM. CONC.
MATCH EXIST. PAVEMENT ELEV. 20
CONTRACTION JOINTS
INV. 21.16
INV. 21.04
NEW FREEZE PROOF HYDRANT SEE DETAIL
CONC. PAVEMENT
CLEARING LIMIT
TBM "D" TOP OF HEADWALL ELEV. 22.11
FIN. FL. ELEV. 23.70
GRASS
8'x8' WOODEN SHED
REMOVE 4'x4'x1.5' CONC. BLOCK
NEW BLDG. TYPE NO. 2 SEE SHEET A-2
CLEAR WOODS FOR A DISTANCE OF 10' FROM BLDG.
EDGE OF WOODS
SITE - 7 AS4112
SCALE: 1" = 20'
B-3
HANGER 4106
B-4
CONTRACTION JOINTS
BITUM. CONC.
MATCH EXIST. PAVEMENT ELEV.
NEW BLDG. TYPE NO. 2 SEE SHEET A-2
FIN. FL. ELEV. 23.82
PROVIDE 1" CORPORATION STOP & 6 L.F. 1" PIPE
NEW FREEZE PROOF HYDRANT SEE DETAIL
CONCRETE PAVEMENT
TBM "D" IN CONC. ELEV. 21.13
CONC. SIDEWALK
EQUIP. STR.
SITE - 9 AS4114
SCALE: 1" = 20'
GRAPHIC SCALE
SCALE: 1" = 20'
CE-2
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.
EFD DWG. NO. 2126-1504
JOB ORDER NO. 5F3105
EFD PROJ. NO. P-328
DES. J&W/ACE DRWN. J&W
MEAS. MDR CHECKED
EFD INVESTIGATED BY N/A
AS-BUILT CHG. DES. OR CONST.
APPROVED DATE
ACTIVITY: SATISFACTORY TO
OFFICER IN CHARGE OF CONSTRUCTION
MCAS (H), NEW RIVER JACKSONVILLE, N.C.
HAZARDOUS/FLAMMABLE MATERIALS
STOREHOUSES
CIVIL, ELECTRICAL SITE PLAN
SIZE F
CODE IDENT NO. 80091
NAVAL DRAWING NO. 4110154
CONTR. CONTR. NO. N62470-80-D-3101
MAKE NOTED DWG. 05-85-3109
SHEET 5 OF 14

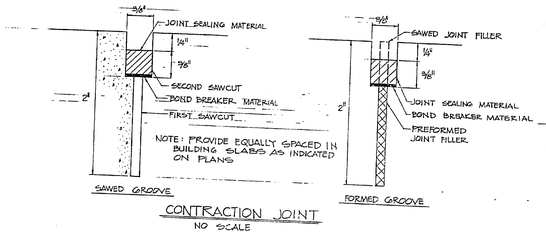

REVISIONS
NO. DESCRIPTION DATE APPROVED
LT SKINNER
LEAD CMS Officer
BLDG. 4110
WOODS
BITUM. CONC.
CONCRETE PAVEMENT
GRASS
NEW FREEZE PROOF HYDRANT SEE DETAIL
NEW BLDG. TYPE NO. 1 SEE SHEET A-1
FIN. FL. ELEV. 22.50
90° BEND
45° BEND
8" FORCE MAIN
PROVIDE 8"x6" TAPPING SLEEVE & 6" GATE VALVE
PROVIDE 8" CORPORATION STOP W/TAPPED SADDLE & 240 L.F. 1" PIPE
TBM "D" TOP CONC. CURB ELEV. 23.42
NEW FIRE HYDRANT
425 L.F. 6" PIPE W/ 2' MIN. COVER
THIS LINE RELOCATED UNDER CONTRACT #85-5940 AV. WISE
SITE - 8 AS4113
SCALE: 1" = 20'
TBM "D" TOP CONC. HEADWALL ELEV. 19.35
PARKING AREA (BITUM. CONC.)
NEW BLDG. TYPE NO. 2 SEE SHEET A-2
FIN. FL. ELEV. 21.50
CONTRACTION JOINTS
MATCH EXIST. PAVEMENT ELEVATION
NEW FREEZE PROOF HYDRANT SEE DETAIL
PROVIDE 1" CORPORATION STOP & 70 L.F. 1" PIPE
EXISTING FUEL STORAGE STATION
EXISTING SERVICE BLDG.
SITE - 10 AS4115
SCALE: 1" = 20'
PROVIDE 1" CORPORATION STOP W/TAPPED SADDLE & 1 SALE 1" PIPE
INV. ELEV. 18.65
90° BEND
TBM "D" TOP CONC. CURB ELEV. 24.05
PROVIDE 12"x6" TAPPING SLEEVE & 6" GATE VALVE BOX
FIN. FL. ELEV. 23.50
WOODEN SHED
CONC. PAD
NEW FIRE HYDRANT
245 L.F. 6" PIPE W/ MIN. COVER.
CONTRACTION JOINTS
NEW FREEZE PROOF HYDRANT SEE DETAIL
DOUBLE BITUMINOUS SURFACE TREATMENT
PROVIDE 8" CONC. IN NEW CONC.
COMBAT VEHICLE MAINTENANCE FACILITY
SITE - 11 AS4170
SCALE: 1" = 20'
GRAPHIC SCALE
SCALE: 1" = 20'
CE-3
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.
EFD DWG. NO. 2126-1505
JOB ORDER NO. 5F3104
EFD PROJ. NO. P-328
DES. J&W/ACE DRWN. J&W
MEAS. MDR CHECKED
EFD INVESTIGATED BY N/A
AS-BUILT CHG. DES. OR CONST.
APPROVED DATE
ACTIVITY: SATISFACTORY TO
OFFICER IN CHARGE OF CONSTRUCTION
MCAS (H), NEW RIVER JACKSONVILLE, N.C.
HAZARDOUS/FLAMMABLE MATERIALS
STOREHOUSES
CIVIL, ELECTRICAL SITE PLAN
SIZE F
CODE IDENT NO. 80091
NAVAL DRAWING NO. 4110155
CONTR. CONTR. NO. N62470-80-D-3101
MAKE NOTED DWG. 05-85-3109
SHEET 6 OF 14



EXPANSION JOINT
NO SCALE

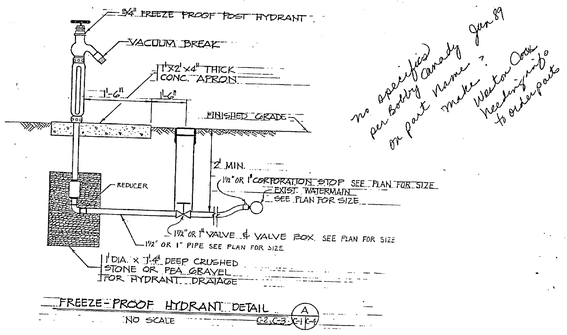


TYPICAL DRIVE DETAIL
NO SCALE



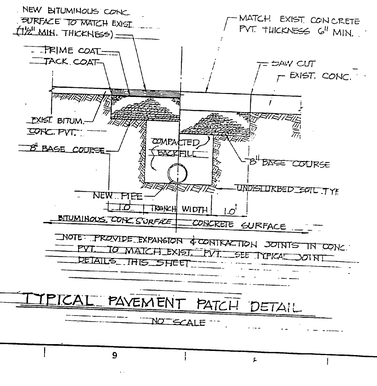
CONTRACTION JOINT
NO SCALE

TYPICAL JOINT DETAILS
NO SCALE

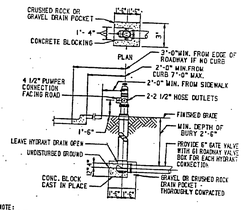


FREEZE-PROOF HYDRANT DETAIL (A)
NO SCALE

no specified per Bobby Grady on past name? make? Will know Wednesday to bid package



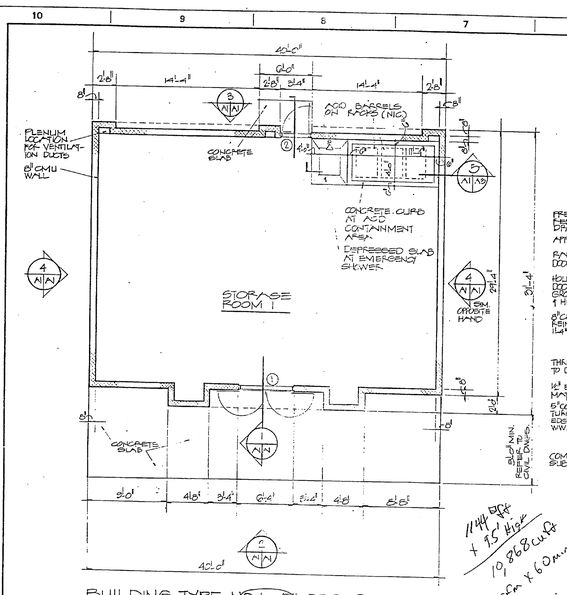
TYPICAL PAVEMENT PATCH DETAIL
NO SCALE



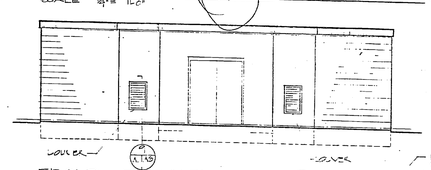
TYPICAL FIRE HYDRANT DETAIL
NO SCALE

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

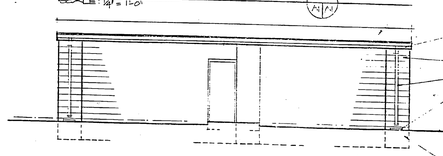
ATLANTIC DIVISION	NAVAL FACILITIES ENGINEERING COMMAND	C-4
NAVAL STATION: MCAS (H), NEW RIVER — JACKSONVILLE, N.C.	NORFOLK, VA.	
HAZARDOUS/FLAMMABLE MATERIALS STOREHOUSES		
CIVIL DETAILS		
SIZE F	CODE IDENT NO. 80091	DRAWING NO. 411615G
SCALE AS NOTED	SPEC. 05-85-3109	SHEET 7 OF 14



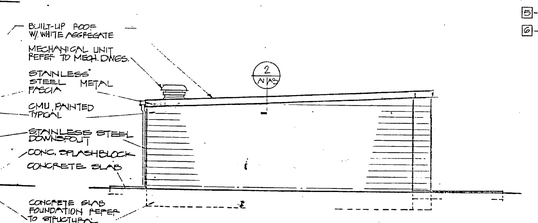
BUILDING TYPE NO.1 FLOOR PLAN
BUILDING LOCATIONS NO. 2 | NO. 5
SCALE: 1/8" = 1'-0"



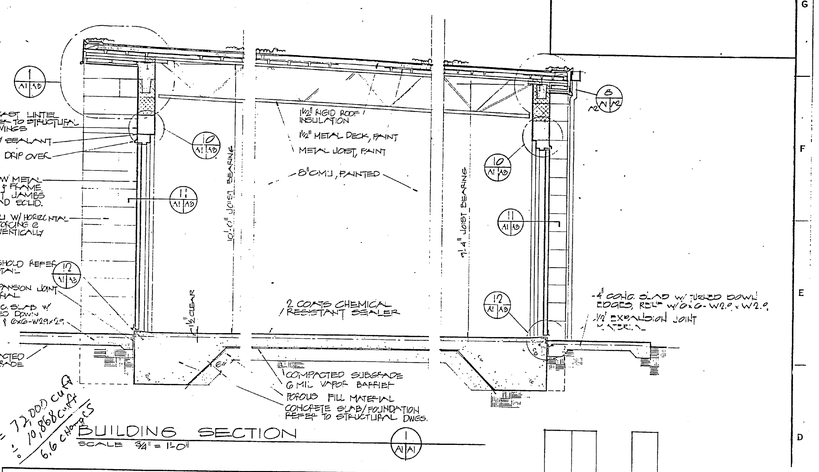
FRONT ELEVATION
SCALE: 1/8" = 1'-0"



REAR ELEVATION
SCALE: 1/8" = 1'-0"



SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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

14" BAR
x 1.5 Hite
10,868 cu ft
x 60 min = 72,000 cu ft
÷ 10,868 cu ft
6.6 Changes

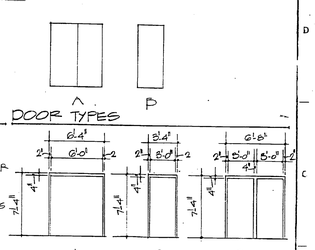
DOOR SCHEDULE

DR. NO.	DOOR SIZE	DR. TYPE	DR. MAT'L	FR. TYPE	FR. MAT'L	HEAD	JAMB	SILL	REMARKS
1	2-3'-0"x7'-0"x1¾"	A	HM	1	HM	10	11	12	1 2 3 5 6
2	3'-0"x7'-0"x1¾"	B	HM	2	HM	10	11	12	1 2 3 5 6
3	3'-0"x7'-0"x1¾"	B	HM	2	HM	10	11	12	1 2 4 5 6
4	3'-0"x7'-0"x1¾"	B	HM	5	HM	10	11	12	1 2 4 5 6
5	3'-0"x7'-0"x1¾"	B	HM	5	HM	10	11	12	1 2 4 5 6
6	3'-0"x7'-0"x1¾"	B	HM	2	HM	10	11	12	1 2 4 5 6
7	3'-0"x7'-0"x1¾"	B	HM	2	HM	10	11	12	1 2 5

DOOR REMARKS

1. GALVANIZED DOOR & FRAME. SHOP PRIMED FIELD PAINT
2. INSULATED DOOR W/ INVERTED TEE CHANNEL
3. DOOR TYPICAL FOR TWO BUILDING LOCATIONS
4. DOOR TYPICAL FOR EIGHT BUILDING LOCATIONS
5. 180° DOOR SWING
6. PANIC EXIT HARDWARE

DOOR TYPES

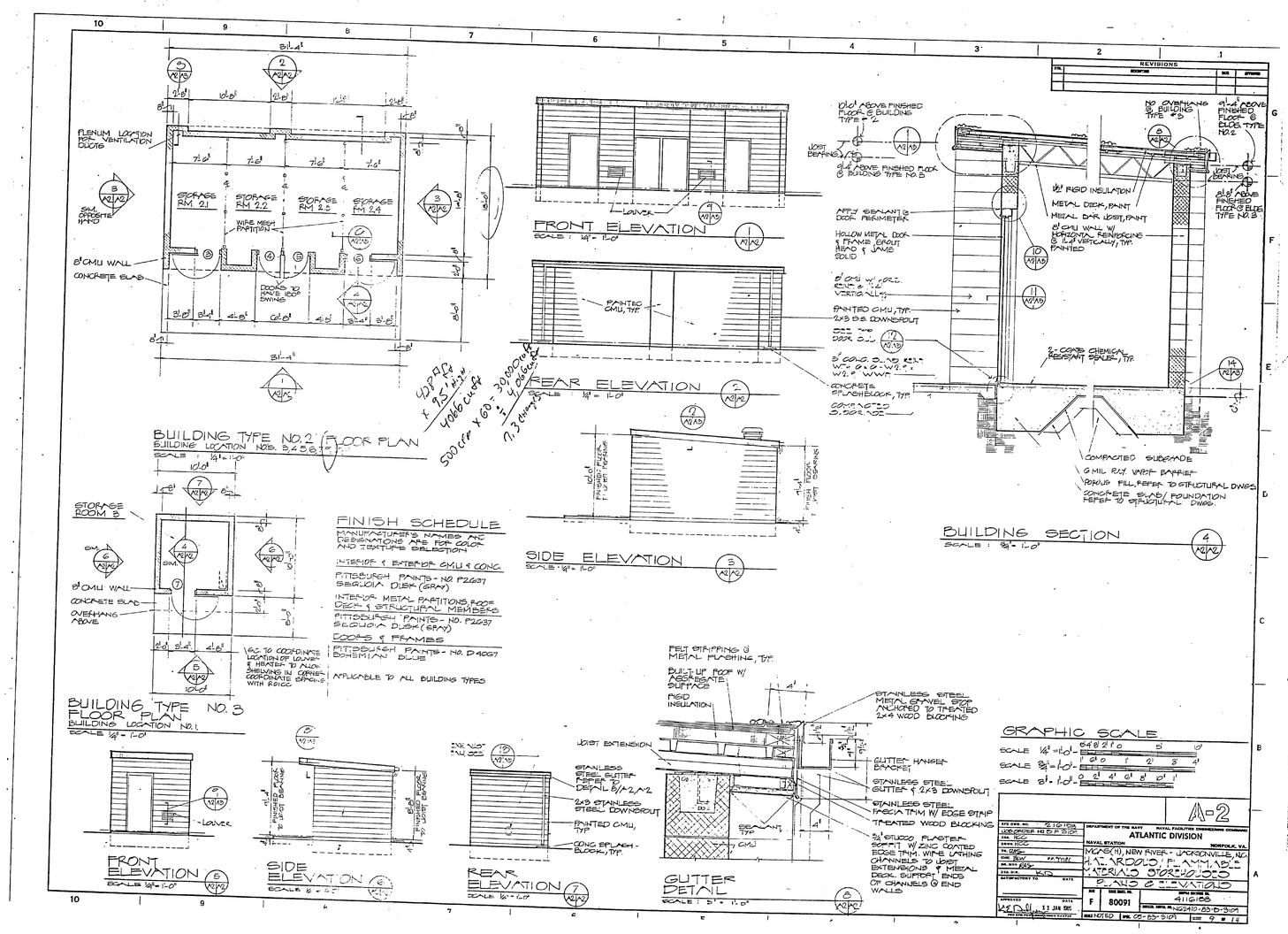


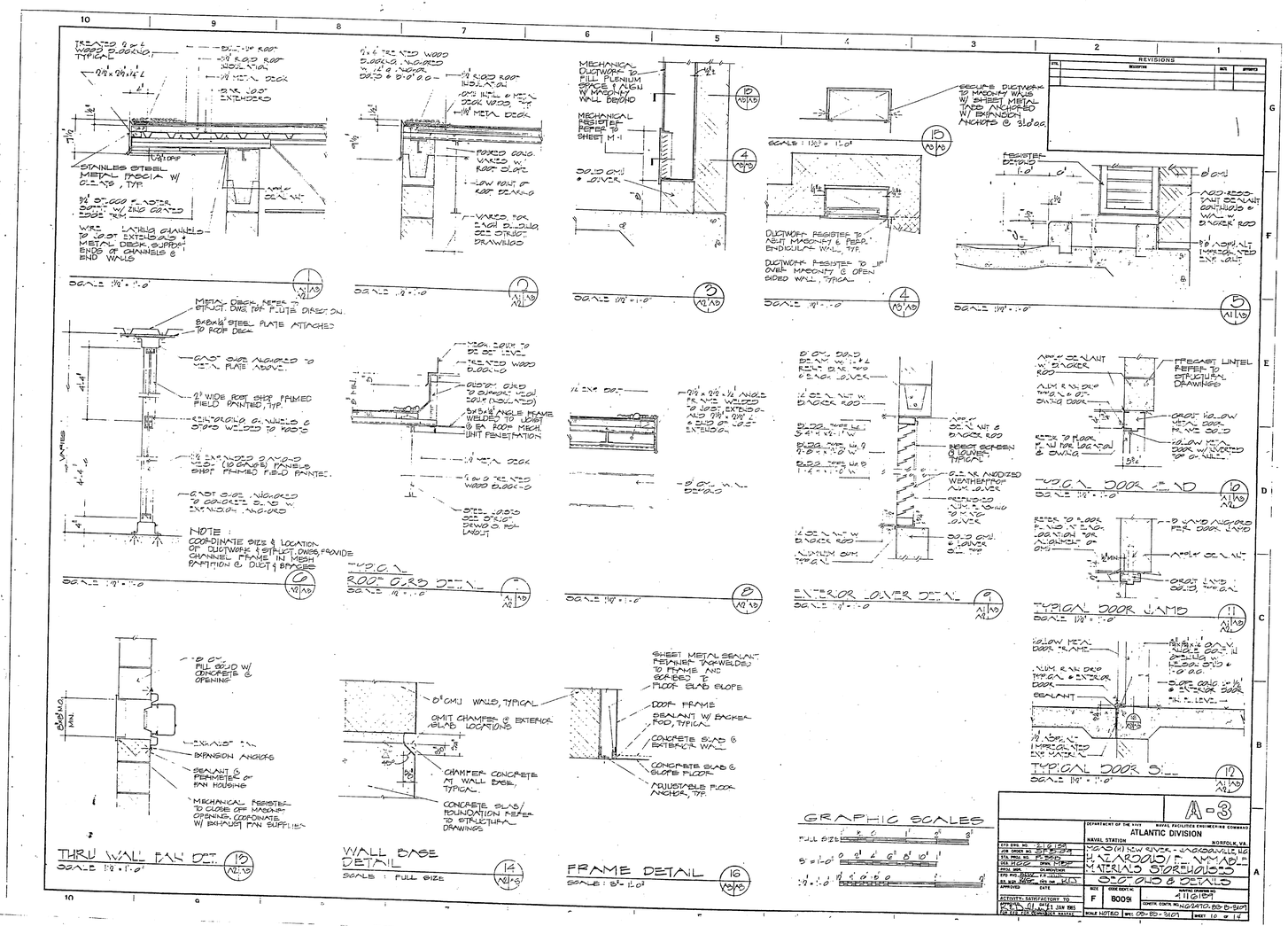
DOOR FRAME TYPE 1 2 3

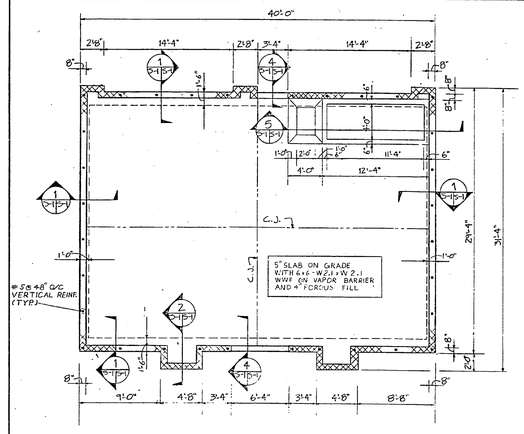
GRAPHIC SCALE
SCALE 1/4"=1'-0" 0 4" 8" 2' 4' 8'
SCALE 3/8"=1'-0" 0 1' 2' 4'

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

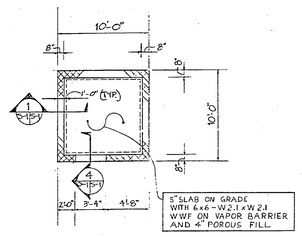
ATLANTIC DIVISION	NAVAL FACILITIES ENGINEERING COMMAND	A-1
NAVAL STATION: MCAS (H), NEW RIVER - JACKSONVILLE, NC.	NORFOLK, VA.	
HAZARDOUS/FLAMMABLE MATERIALS STOREHOUSES		
PLANS & ELEVATIONS		
SIZE F	CODE IDENT NO. 80091	DRAWING NO. 411615F
SCALE AS NOTED	SPEC. 05-85-3109	SHEET 8 OF 14


BUILDING TYPE NO.2 FLOOR PLAN
BUILDING LOCATION NOS. 3,4,5,6
SCALE : 1/8" = 1'-0"
STORAGE ROOM 2.1
STORAGE RM 2.2
STORAGE RM 2.3
STORAGE RM 2.4
WIRE MESH PARTITION
DOORS TO OPEN 180° SWING
FLENUM LOCATION FOR VENTILATION DUCTS
8" CMU WALL
CONCRETE SLAB
SEE CONCRETE PLAN
FRONT ELEVATION
SCALE : 1/8" = 1'-0"
LOUVER
REAR ELEVATION
SCALE : 1/8" = 1'-0"
PAINTED CMU, TYP.
SIDE ELEVATION
SCALE : 1/8" = 1'-0"
FINISH SCHEDULE
MANUFACTURER'S NAMES AND DESIGNATIONS ARE FOR COLOR AND TEXTURE SELECTION
INTERIOR & EXTERIOR CMU & CONC.
PITTSBURGH PAINTS - NO. P2G37 SEQUOIA DUSK (GRAY)
INTERIOR METAL PARTITIONS, ROOF DECK & STRUCTURAL MEMBERS
PITTSBURGH PAINTS - NO. P2G37 SEQUOIA DUSK (GRAY)
DOORS & FRAMES
PITTSBURGH PAINTS - NO. D 4G37 BOHEMIAN BLUE
APPLICABLE TO ALL BUILDING TYPES
10'0" ABOVE FINISHED FLOOR & BUILDING TYPE NO. 2
JOIST BEARING
9'-4" ABOVE FINISHED FLOOR & BUILDING TYPE NO. 3
1½" RIGID INSULATION
METAL DECK, PAINT
METAL DR. JOIST, PAINT
8" CMU WALL W/ HORIZONTAL REINFORCING @ 16" VERTICALLY, TYP. PAINTED
HOLLOW METAL DOOR & FRAME GROUT JAMB & JAMB SOLID
PAINTED CMU, TYP.
4"ø S.S. DOWNSPOUT
CONCRETE FLASHBLOCK, TYP.
¾" COVE CHEMICAL RESISTANT SEALER, TYP.
COMPACTED SUBGRADE
6 MIL POLY. VAPOR BARRIER
POROUS FILL, REFER TO STRUCTURAL DWGS.
CONCRETE SLAB/ FOUNDATION REFER TO STRUCTURAL DWGS.
BUILDING SECTION
SCALE : 1/8" = 1'-0"
STORAGE ROOM 3
8" CMU WALL
CONCRETE SLAB
OVERHANG ABOVE
BUILDING TYPE NO. 3 FLOOR PLAN
BUILDING LOCATION NO. 1
SCALE : 1/8" = 1'-0"
FRONT ELEVATION
SCALE : 1/8" = 1'-0"
SIDE ELEVATION
SCALE : 1/8" = 1'-0"
REAR ELEVATION
SCALE : 1/8" = 1'-0"
FELT STRIPPING @ METAL FLASHING, TYP.
BUILT-UP ROOF W/ AGGREGATE SURFACE
RIGID INSULATION
JOIST EXTENSION
STAINLESS STEEL GUTTER REFER TO DETAIL B/A-2, A-3
2x8 STAINLESS STEEL DOWNSPOUT
PAINTED CMU, TYP.
CONC. SPLASH-BLOCK, TYP.
STAINLESS STEEL METAL GRAVEL STOP ANCHORED TO TREATED 2x4 WOOD BLOCKING
GUTTER HANGER BRACKET
STAINLESS STEEL GUTTER & 2x8 DOWNSPOUT
STAINLESS STEEL FASCIA TRIM W/ EDGE STRIP
TREATED WOOD BLOCKING
¾" STUCCO PLASTER SOFFIT W/ ZINC COATED EDGE TRIM. WIRE LATHING CHANNELS TO JOIST EXTENSIONS & METAL DECK SUPPORT ENDS OF CHANNELS @ END WALLS
SEALANT, TYP.
CMU
GUTTER DETAIL
SCALE : 3" = 1'-0"
GRAPHIC SCALE
SCALE ½" = 1'-0"
SCALE 3/8" = 1'-0"
SCALE 3/8" = 1'-0"
A-2
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.
MCAS(H), NEW RIVER - JACKSONVILLE, NC
H.M. ARDOUIN, F. LAMMAB, MATERIALS STOREHOUSES
PLANS & ELEVATIONS
F 80091
4116165
NOT NOTED SPEC. 05-83-5107
SHEET 9 OF 14

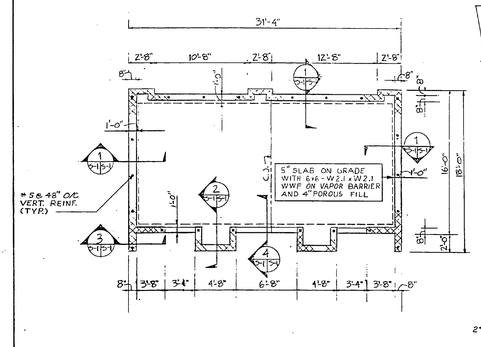

TREATED 2 x 6 WOOD BLOCKING, TYP. AT EA. RAFTER
STAINLESS STEEL METAL FASCIA W/ CLIPS, TYP.
WIRE LATHING CHANNELS @ 16" EXTENDED & METAL DECK SUPPORT ENDS OF CHANNELS @ END WALLS
SCALE : 1½" = 1'-0"
TREATED 2 x 6 WOOD BLOCKING, NAILED TO 2 x 8 NAILER
FIXED COVE VANES W/ ROOF SLOPE
LOW POINT OF ROOF DRAINS
VARIES FOR ROOF SLOPE, SEE STRUCT. DRAWINGS
MECHANICAL DUCTWORK TO FILL PLENUM SPACE & ALIGN W/ MASONRY WALL BEYOND
MECHANICAL RESISTEF REFER TO SHEET M-1
DO 3 CMU & LOUVER
SCALE : 1½" = 1'-0"
SEQUOIA DUCTWORK TO MASONRY WALLS W/ SHEET METAL TIES ANCHORED W/ EXPANSION ANCHORS @ 3'-0" o.c.
DUCTWORK RESISTEF TO PERP. MASONRY & PERP. ENDICULAR WALL, TYP.
DUCTWORK RESISTEF TO ½" OVER MASONRY & OPEN SIDED WALL, TYPICAL
RESISTEF LOUVER
SEALANT BETWEEN MASONRY & WALL W/ BACKER ROD
METAL DECK, REFER TO STRUCT. DWG. FOR FLUTE DIRECTION
8"x16" STEEL PLATE ATTACHED TO ROOF DECK
GIRT SIZE INDICATED TO METAL PLATE ABOVE.
2½" WIDE ROOF SHOE FRAMED FIELD PAINTED, TYP.
CONTINUOUS @ 6" WELDED & STUD WELDED TO ROOF
½" EXT. WOOD SHEATHING (2 LAYERS) PAINTED SHOT FRAMED FIELD PAINTED.
GIRT SIZE INDICATED TO CONCRETE SLAB W/ EXTENDED ANGLES
NOTE: COORDINATE SIZE & LOCATION OF DUCTWORK & STRUCT. DWGS. PROVIDE CHANNEL FRAME IN MESH PARTITION @ DUCT & BYPASS
WOOD CURB TO SUPPORT ROOF DECK (NOTCHED)
6x6 STEEL ANGLE FRAME WELDED TO JOIST @ EA. ROOF MECH. UNIT PENETRATION
½" METAL DECK
6"x6" TREATED WOOD BLOCKING
SEE STRUCT. DWGS FOR LAYOUT
½" EXP. JOINT
7/8" x 2½" x ¼" ANGLE FR. SHOE WELDED TO JOIST, EXTEND @ 2 JOIST @ EACH END
8" CMU WALL
BACKER ROD
SEALANT
REGLET SCREEN @ LOUVER, TYPICAL
6" S.S. ANODIZED WEATHERPROOF LOUVER
INSULATION BATT
PRECAST LINTEL REFER TO STRUCTURAL DRAWINGS
GROUT SOLID FULL HT. OF DOOR
REFER TO PLANS FOR LOCATION & SIZING
GROUT SOLID FULL HT. OF DOOR W/ REINFORCING
METAL DOOR FRAME
ALUM. & GLASS DOOR
SEALANT
THRU WALL FAN DET.
SCALE : 1½" = 1'-0"
WALL BASE DETAIL
SCALE : FULL SIZE
FRAME DETAIL
SCALE : 3" = 1'-0"
8" CMU WALL, TYPICAL
OMIT CHAMFER @ EXTERIOR SLAB LOCATIONS
CHAMFER CONCRETE AT WALL BASE, TYPICAL
CONCRETE SLAB/ FOUNDATION REFER TO STRUCTURAL DRAWINGS
SHEET METAL SEALANT RETAINER TACK WELDED TO FRAME AND SCREED TO FLOOR SLAB SLOPE
DOOR FRAME
SEALANT W/ BACKER ROD, TYPICAL
CONCRETE SLAB @ EXTERIOR WALL
CONCRETE SLAB @ SLOPE FLOOR
ADJUSTABLE FLOOR ANCHOR, TYP.
GRAPHIC SCALES
FULL SIZE
3" = 1'-0"
1" = 1'-0"
A-3
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.
MCAS(H) NEW RIVER - JACKSONVILLE, NC
H.M. ARDOUIN, F. LAMMAB, MATERIALS STOREHOUSES
SECTIONS & DETAILS
F 80091
4116165
NOT NOTED SPEC. 05-83-5107
SHEET 10 OF 14



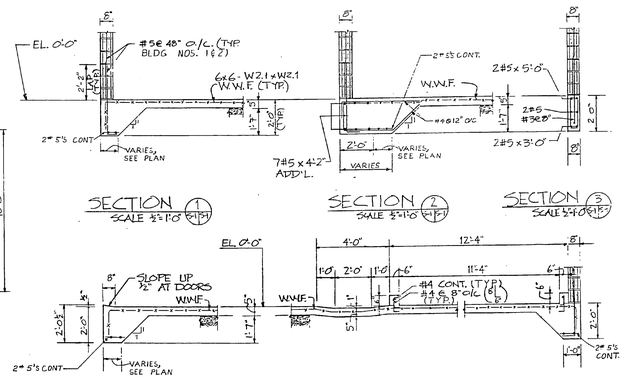
BUILDING TYPE NO. 1 - FOUNDATION PLAN
SCALE 1/4" = 1'-0"



BUILDING TYPE NO. 3
FOUNDATION PLAN
SCALE 1/4" = 1'-0



BUILDING TYPE NO. 2 - FOUNDATION PLAN
SCALE 1/4" = 1'-0"



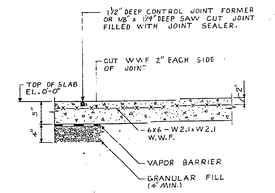
SECTION 1
SCALE 1/2"=1'-0"

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

SECTION 3
SCALE 1/2"=1'-0"

SECTION 4
SCALE 1/2"=1'-0"

SECTION 5
SCALE 1/2"=1'-0"



TYPICAL SLAB ON GRADE
CONTROL JOINT DETAIL (C.J.)
SCALE: 1-1/2" = 1'-0"

GRAPHIC SCALES

1/4" = 1'-0"
1/8" = 1'-0"
1 1/2" = 1'-0"

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

S-1

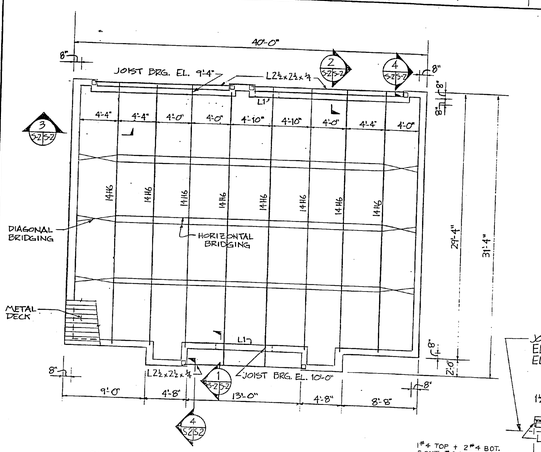
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION — NORFOLK, VA.

EFD DWG. NO.	411616C
JOB ORDER NO.	42-5109
EFD PROJ. NO.	5109
DES. BRANCH	STRUCTURES
DRAWN BY	J.C.S.
TRACED BY	
EFD INSP.	
AS BUILT CHECKED BY	
APPROVED	
DATE	
ACTIVITY: SATISFACTORY TO	
APPROVED BY DATE 1 JUL 1985	
FOR THE OFFICER IN CHARGE	

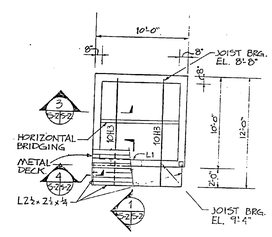
MCAS(H), NEW RIVER, JACKSONVILLE, N.C.
HAZARDOUS / FLAMMABLE MATERIALS STOREHOUSES
FOUNDATION PLAN & SECTIONS

SIZE	CODE IDENT. NO.	DRAWING NO.
F	80091	411616C

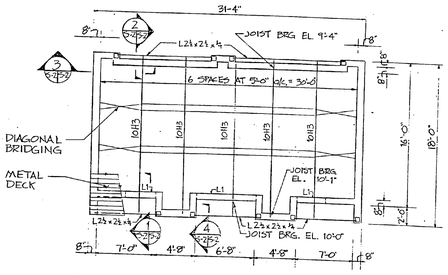
SCALE NOTED | SPEC. 05-83-3109 | CONTR. CONTR. NO. N62470-83-B-3109 | SHEET 11 OF 14



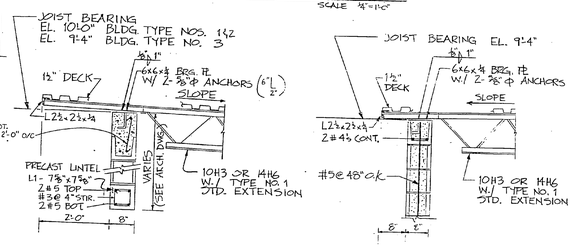
BUILDING TYPE NO. 1 - ROOF FRAMING PLAN
SCALE 1/4" = 1'-0"



BUILDING TYPE NO. 3
ROOF FRAMING PLAN
SCALE 1/4" = 1'-0"

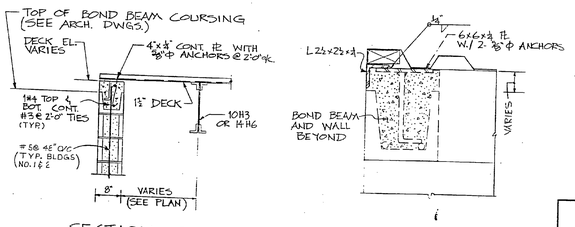


BUILDING TYPE NO. 2 - ROOF FRAMING PLAN
SCALE 1/4" = 1'-0"



SECTION 1
SCALE 1"=1'-0"

SECTION 2
SCALE 1"=1'-0"



SECTION 3
SCALE 1"=1'-0"

SECTION 4
SCALE 1"=1'-0"

NOTES:

1 DESIGN PARAMETERS:
- WIND — 115 MPH (GOVERNS)
- SEISM.: — ZONE 1
- ALLOW SOIL BEARING PRESSURE — 1000 PSF
- ROOF LL — 20 PSF

2 MATERIALS:
- CONCRETE — f'c=3000 PSI AT 28 DAYS
- REINF. STEEL — ASTM A615, GRADE 60
- STRUCTURAL STEEL — ASTM A36
- MASONRY — (SEE SPECIFICATIONS)
- GROUT — (SEE SPECIFICATIONS)
- WELDING — (SEE SPECIFICATIONS)
- ANCHOR BOLTS — (SEE SPECIFICATIONS)
- WELDED WIRE FABRIC — ASTM A185

3 DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING:
- GENERAL — NAVFAC DM-2
- CONCRETE — ACI 315 AND 318
- STEEL JOISTS — SJI
- STRUCTURAL STEEL — AISC
- STEEL DECK — SDI
- WELDING — AWS
- MASONRY — NCMA

4 ALL METAL DECK SHALL BE TYPE 'B' 18" DEEP, 22 GAUGE, WITH THE FOLLOWING MIN. PROPERTIES:
- S_+=0.174 in.³
- I_+=0.427 in.⁴

5 ALL MASONRY CELLS CONTAINING REINFORCING SHALL BE SOLIDLY FILLED WITH GROUT. MORTAR DROPPINGS SHALL BE KEPT OUT AND CLEARED FROM THE GROUT SPACE.

6 FILL MASONRY CELLS WITH SOLID GROUT BELOW LINTEL BEARINGS FOR 3 BLOCK COURSES DEEP AND 2'-8" WIDE.

7 ALL REINFORCING MARKED 'CONTINUOUS' (CONT) SHALL BE LAPPED 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.

8 ALL ELEVATIONS ON STRUCTURAL DRAWINGS ARE RELATIVE TO THE FINISH FLOOR CALLED EL. 0'-0". FOR ACTUAL FINISH FLOOR ELEVATIONS SEE CIVIL DRAWING

9 IN ADDITION TO REINFORCING SHOWN IN DETAILS PROVIDE THE FOLLOWING MIN. REINF.
- A. 1#4 VERT. BAR AT EACH SIDE OF ALL MASONRY WALL OPENING. (FULL HT. OF WALL)
- B. 1#4 VERT. BAR AT EA. CORNER AND INTERSECTION OF ALL MASONRY WALLS (FULL HT. OF WALL)

10 PROVIDE CONTINUOUS 8" DEEP BOND BEAMS WITH 2-#4 BARS AT ALL JOIST BEARING ELEVATIONS AND AT TOP OF ALL MASONRY WALLS.

GRAPHIC SCALES

1/4" = 1'-0"
1/8" = 1'-0"
1 3/4" = 1'-0"

S-2

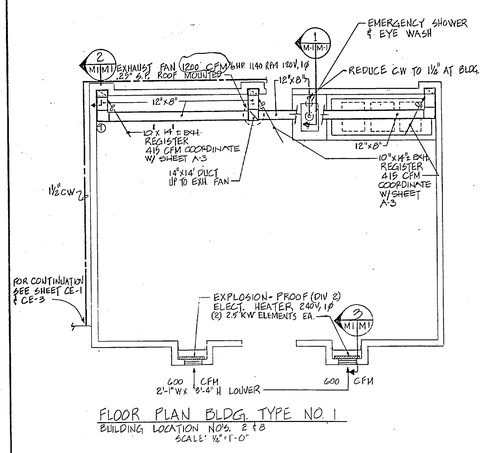
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION — NORFOLK, VA.

EFD DWG. NO.	411616
JOB ORDER NO.	42-5109
EFD PROJ. NO.	5109
DES. BRANCH	STRUCTURES
DRAWN BY	J.C.S.
TRACED BY	
EFD INSP.	
AS BUILT CHECKED BY	
APPROVED	
DATE	
ACTIVITY: SATISFACTORY TO	
APPROVED BY DATE 1 JUL 1985	
FOR THE OFFICER IN CHARGE	

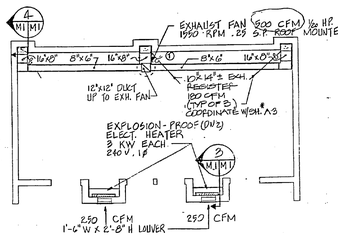
MCAS(H), NEW RIVER, JACKSONVILLE, N.C.
HAZARDOUS / FLAMMABLE MATERIALS STOREHOUSES
ROOF FRAMING PLAN & SECTION

SIZE	CODE IDENT. NO.	DRAWING NO.
F	80091	411616

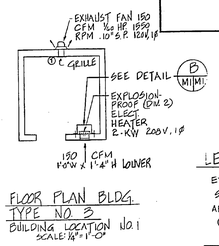
SCALE NOTED | SPEC. 05-83-3109 | CONTR. CONTR. NO. N62470-83-B-3109 | SHEET 12 OF 14



FLOOR PLAN BLDG. TYPE NO. 1
BUILDING LOCATION NO'S. 2 & 8
SCALE: 1/4"=1'-0"



FLOOR PLAN BLDG. TYPE NO. 2
BUILDING LOCATION NO'S. 3, 4, 5, 6, 7, 9, 10, & 11
SCALE: 1/4"=1'-0"



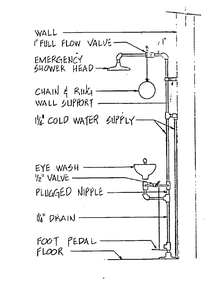
FLOOR PLAN BLDG. TYPE NO. 3
BUILDING LOCATION NO. 1
SCALE: 1/4"=1'-0"

LEGEND

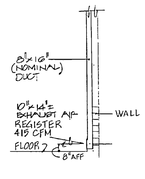
EXH.	EXHAUST
S.P.	STATIC PRESSURE
AFF	ABOVE FINISHED FLOOR.
T	REMOTE THERMOSTAT MOUNT ON INSULATED WALL PAD
----	COLD WATER (C.W.)

DESIGN CONDITIONS

WINTER OUTSIDE °F	WINTER INSIDE °F
24	60

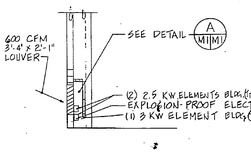


SECTION 1 M1|M1
NO SCALE

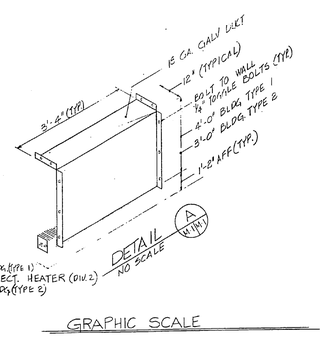


SECTION 2 M1|M1
SCALE: 1/4"=1'-0"

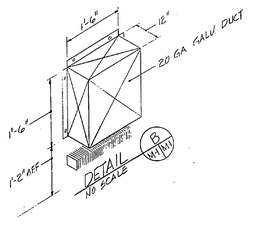
SECTION 4 M1|M1
SCALE 3/4"=1'-0"



SECTION 3 M1|M1
SCALE 1/2"=1'-0"



DETAIL A M1|M1
NO SCALE



DETAIL B M1|M1
NO SCALE

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

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.

EFD DWG. NO.	8161162
JOB ORDER NO.	87 5104
EFD PROJ. NO.	8808 F85
DES. DLK	DRWN. DLK
CHKD.	QUANTITIES
APPD.	SPEC. NO.
AS BUILT	DATE
APPROVED	DATE

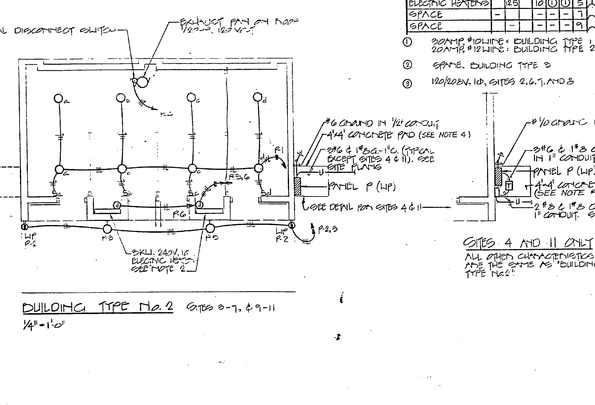
ACTIVITY - SATISFACTORY TO
DEPUTY DIR. (N) (W) & JAN 1984
FACILITIES PLANNING OFFICER

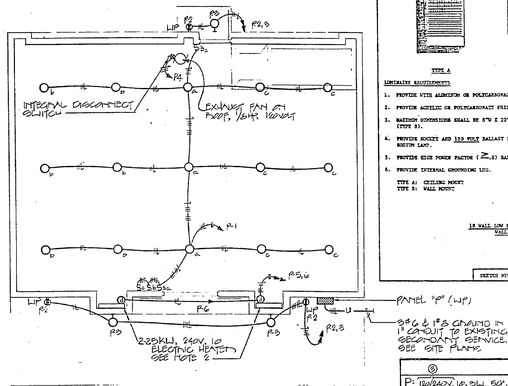
M-1

MCAS (H) NEW RIVER, JACKSONVILLE, N.C.
HAZARDOUS/FLAMMABLE MATERIALS STOREHOUSES
PLANS AND DETAILS

SIZE	CODE IDENT. NO.	WORK DRAWING NO.
F	80091	4116162

CONTR. CONTR. NO. N62470-83 B 5105
MAT NOTED SPEC. 04-83-5105 SHEET 13 OF 13





BUILDING TYPE No. 1 SITES 2, 8
1/4"=1'-0"

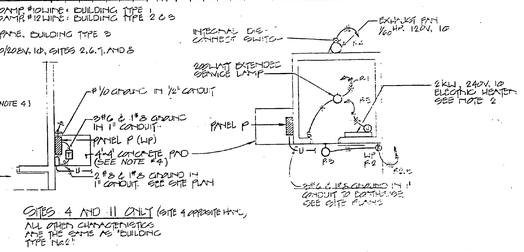
PANELBOARD SCHEDULE

P: 120/240V, 1Ø, 3W, 60A MCB, 42 SPACES, SURFACE MOUNT, WEATHERPROOF

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	BRKR SIZE	BRKR WIRE	CKT NO.	PHASE A	PHASE B	CKT NO.	BRKR WIRE	BRKR SIZE	LOAD (AMPS) A	LOAD (AMPS) B	LOAD SERVED
LIGHTS-INTERIOR	0.5		10	12	1			2	12	20	10		RECEPTACLES
LIGHTS-EXTERIOR		1.1	10	12	3			4	12	20		1.5	EXHAUST FAN
	12.5										2.5		
ELECTRIC HEATERS		25	10	(1)	(1)	5		6	(1)	(1)	10	12.5	ELECTRIC HEATERS (4)
SPACE	-	-	-	-	-			8	-	-	-	-	SPACE
SPACE	-	-	-	-	-			10	-	-	-	-	SPACE

(1) 3#6 AWG & 1#8 WIRE - BUILDING TYPE 2 OR 3
2#4 AWG & 1#8 WIRE - BUILDING TYPE 2 OR 3
(2) SPARE, BUILDING TYPE 3
(3) 120/240V, 1Ø, SITES 2, 6, 7, AND 8

BUILDING TYPE No. 2 SITES 3-7, & 9-11
1/4"=1'-0"



BUILDING TYPE No. 3 SITE 1
1/2"=1'-0"

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

LEGEND:

- EXPLOSION-PROOF INCANDESCENT LIGHT FIXTURE, WALL MOUNTED, SERVICE LAMP UNLESS OTHERWISE NOTED, CEILING MTD PER SKETCH WC10-49, TYPE A
- LOW PRESSURE SODIUM LIGHT FIXTURE, WALL MOUNT 7'-0" ABOVE GRADE PER SKETCH WC10-26, TYPE B. PROVIDE INTERNAL PHOTO CONTROL. OUTDOOR CONDUIT INTERRUPTER TYPE RECEPTACLE - MOUNT 36" ABOVE FINISH GRADE
- TOGGLE SWITCH, SUBSCRIPT DENOTES FIXTURE(S) CONTROLLED (S)= FREE-LAY
- DISCONNECT SWITCH, 30 AMP, 480 VOLT, 2 POLE, NEMA 3R ENCLOSURE
- MOTOR CONNECTION
- DRY-TYPE TRANSFORMER, 10 KVA, 480V-120/240 VOLT, 1Ø WALL MOUNT
- CONDUIT AND WIRE RUN EXPOSED, TICK MARKS DENOTE NUMBER OF WIRES. (G) GROUND. ARRANGED: HOMERUN
- CONDUIT SEAL
- CONDUIT RUN UNDERGROUND
- GROUND ROD, 3/4" x 10'
- JUNCTION BOX
- WEATHERPROOF

NOTES:

1. ALL INTERNAL ELECTRICAL WORK IN NEW STORAGE BUILDINGS SHALL CONFORM TO NEC CLASS I DIVISION 2, GROUP D HAZARDOUS LOCATION
2. ELECTRIC HEATERS AT SITES 2, 6, 7, & 8 SHALL BE RATED FOR 240V, 1Ø SERVICE
3. ALL WIRING IS #12 AWG MINIMUM IN 1/2" CONDUIT UNLESS OTHERWISE NOTED
4. CONCRETE PAD UNDER PANELS SHALL HAVE THE SAME CONSTRUCTION AS CONCRETE SLAB IN FRONT OF BLDG (SEE SHEET A-1)

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VA.

EFD DWG. NO.	8161165
JOB ORDER NO.	87 5104
EFD PROJ. NO.	8808 F85
DES. R.F.P.	DRWN. D.K.C.
QUANTITIES	CHKD.
EFD INVENTORY	SPEC. NO.
AS BUILT	DATE
APPROVED	DATE

ACTIVITY - SATISFACTORY TO
DEPUTY DIR. (N) (W) & JAN 1984
FACILITIES PLANNING OFFICER

E-1

MCAS(H), NEW RIVER - JACKSONVILLE, N.C.
HAZARDOUS/FLAMMABLE MATERIALS STOREHOUSES
PLANS, SCHEDULES AND DETAILS

SIZE	CODE IDENT. NO.	WORK DRAWING NO.
F	80091	4116165

CONTR. CONTR. NO. N62470-83 B 5105
MAT NOTED SPEC. 04-83-5105 SHEET 14 OF 14