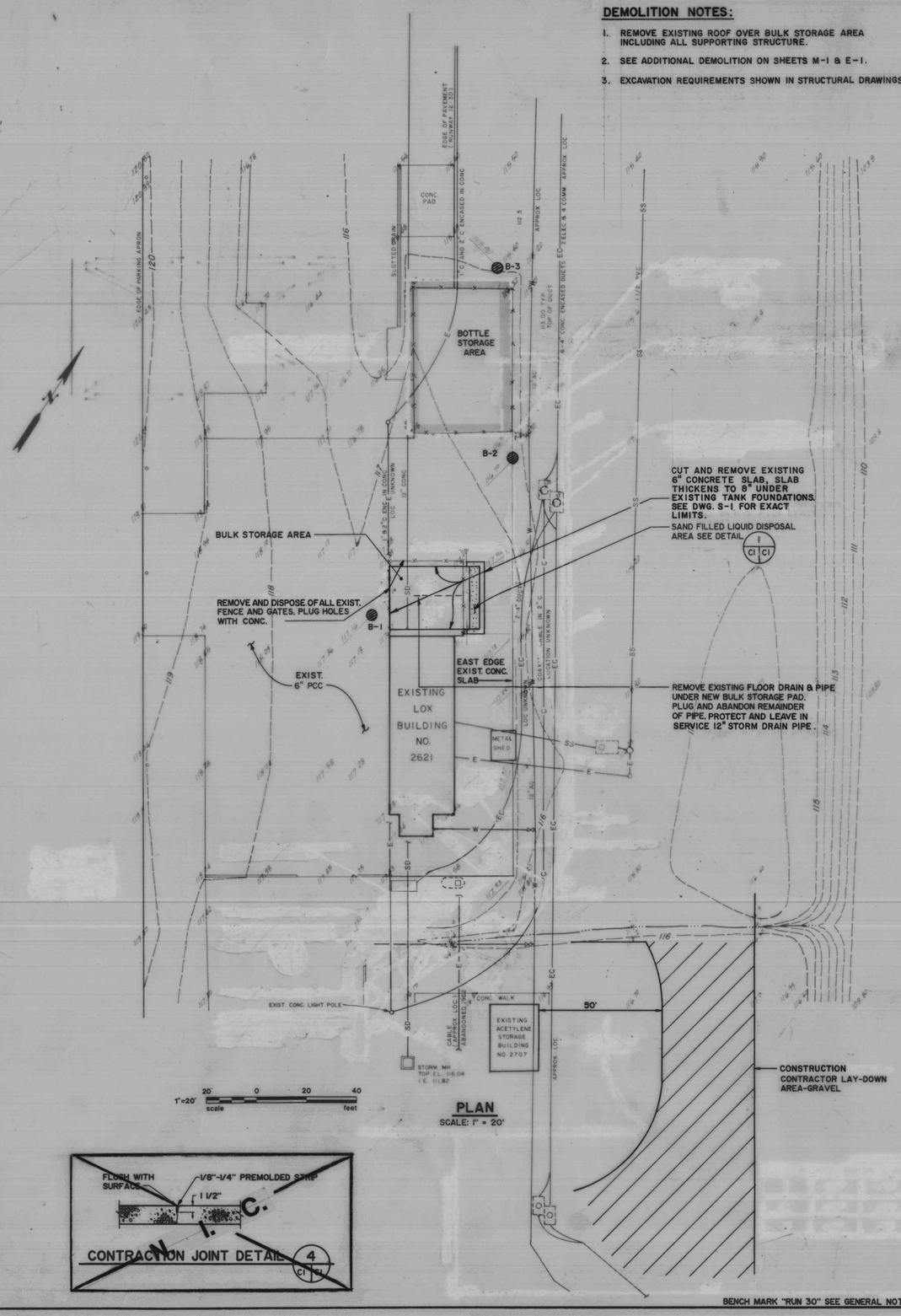
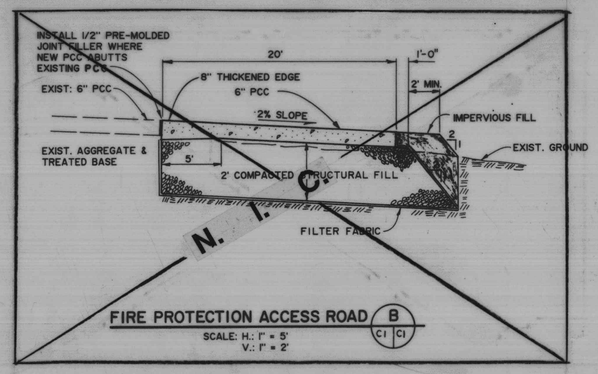
DEMOLITION NOTES:

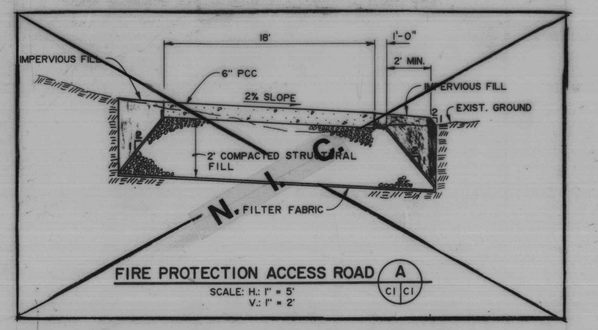
1. REMOVE EXISTING ROOF OVER BULK STORAGE AREA INCLUDING ALL SUPPORTING STRUCTURE.
2. SEE ADDITIONAL DEMOLITION ON SHEETS M-1 & E-1.
3. EXCAVATION REQUIREMENTS SHOWN IN STRUCTURAL DRAWINGS.



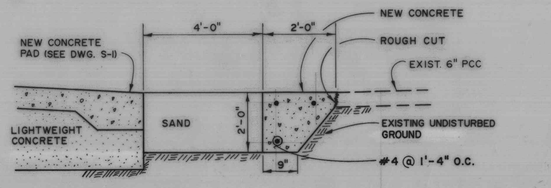
PLAN
SCALE: 1" = 20'



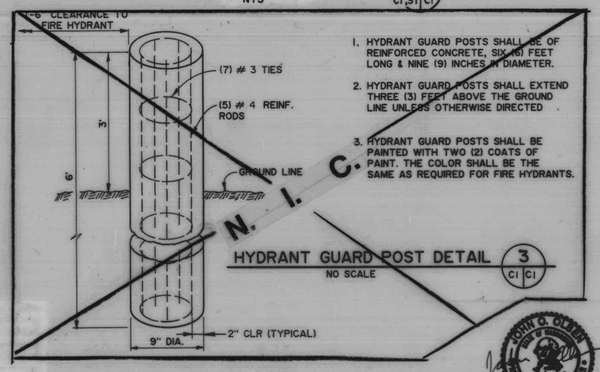
FIRE PROTECTION ACCESS ROAD (B) CI CI
SCALE: H.: 1" = 5' V.: 1" = 2'



FIRE PROTECTION ACCESS ROAD (A) CI CI
SCALE: H.: 1" = 5' V.: 1" = 2'



LIQUID DISPOSAL AREA DETAIL (1) CI SI CI
NTS



1. HYDRANT GUARD POSTS SHALL BE OF REINFORCED CONCRETE, SIX (6) FEET LONG & NINE (9) INCHES IN DIAMETER.
2. HYDRANT GUARD POSTS SHALL EXTEND THREE (3) FEET ABOVE THE GROUND LINE UNLESS OTHERWISE DIRECTED
3. HYDRANT GUARD POSTS SHALL BE PAINTED WITH TWO (2) COATS OF PAINT. THE COLOR SHALL BE THE SAME AS REQUIRED FOR FIRE HYDRANTS.

HYDRANT GUARD POST DETAIL (3) CI CI
NO SCALE

CONTRACTION JOINT DETAIL (4) CI CI

BENCH MARK "RUN 30" SEE GENERAL NOTES

REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED
	GENERAL MODIFICATIONS I	ROG	5-20-92	

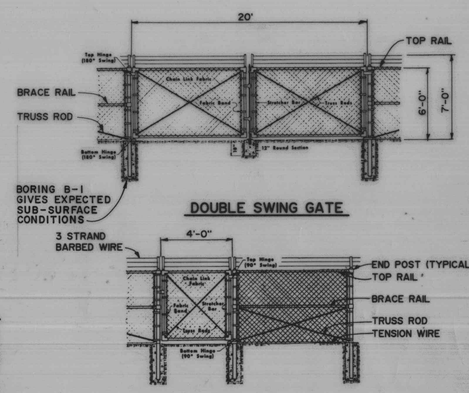
GENERAL NOTES

1. RELOCATE AND PROTECT UTILITIES ENCOUNTERED DURING CONSTRUCTION, AS REQUIRED.
2. BENCH MARK "RUN 30" USGS BRASS DISK IN CONCRETE REFER TO PW DWG. NO. 81-9, ELEV. 118.66 FT. (NAVY DATUM). DATUM STATION: N 492,921.11, E 1,557,430.70

LEGEND

—SS—	SANITARY SEWER
—SD—	STORM DRAIN
—W—	WATER MAIN
—E—	ELECTRICAL
—C—	COMMUNICATIONS
	SOIL BORING SEE SHEET GT-1
	BENCH MARK

CONCRETE FOOTING FOR POLES				
TYPE OF POST	FABRIC HEIGHT	HOLE DIAMETER	HOLE DEPTH	POST EMBEDMENT
LINE	6'-0"	12"	38"	36"
TERMINAL	6'-0"	12"	38"	36"



DOUBLE SWING GATE

SINGLE SWING GATE

CHAIN LINK FENCE DETAIL (2) SI CI
NO SCALE

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT — SCALE REDUCED ACCORDINGLY

C-1

JOHN O. OLSEN
STATE OF WASHINGTON
PROFESSIONAL CIVIL ENGINEER

2600 32nd Ave. W., Suite 205
P.O. Box 4428
Lynnwood, WA 98036-4428
206/775-3434

DSGN. JAK	DR. BDM	CHK. JOO	
SUPV. JAK		CH. ENGR. JOO	
SUBMITTED BY (VICE PRES.)		DATE 7/14/92	
E.I.C. DC 5/27/92		FIRE PROT.	
SEC. HD.		DIV. HD 6/17/92	
SATISFACTORY TO		DATE 5/27/92	
APPROVED		DATE	
CONCURRENCE PRO		DATE 6/17/92	

DEPARTMENT OF THE NAVY
NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

SPECIAL PROJECT E(C) (R) 9-87
REPLACE TANKS AT LOX FACILITY
DEMOLITION PLAN AND DETAILS

SIZE	CODE IDENT. NO.	NAVFAC. DRAWING NO.
F	80091	6355201
SCALE AS SHOWN		CONST. CONTR. NO. N62474-92-C-3049
		SPEC. 12-92-3049 SHEET 2 OF 8

NASW 11100/1 (Rev 7-88)

U.S. GOVERNMENT PRINTING OFFICE:1985-550-255

FILE: 2621 ORIGINAL COPY

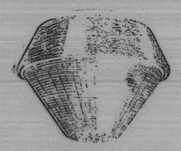
Replace Tanks at LOX Facility
N62474-92-C-3049
2 of 8

6355201

EAM FILE COPY Bernal Co.

6355201

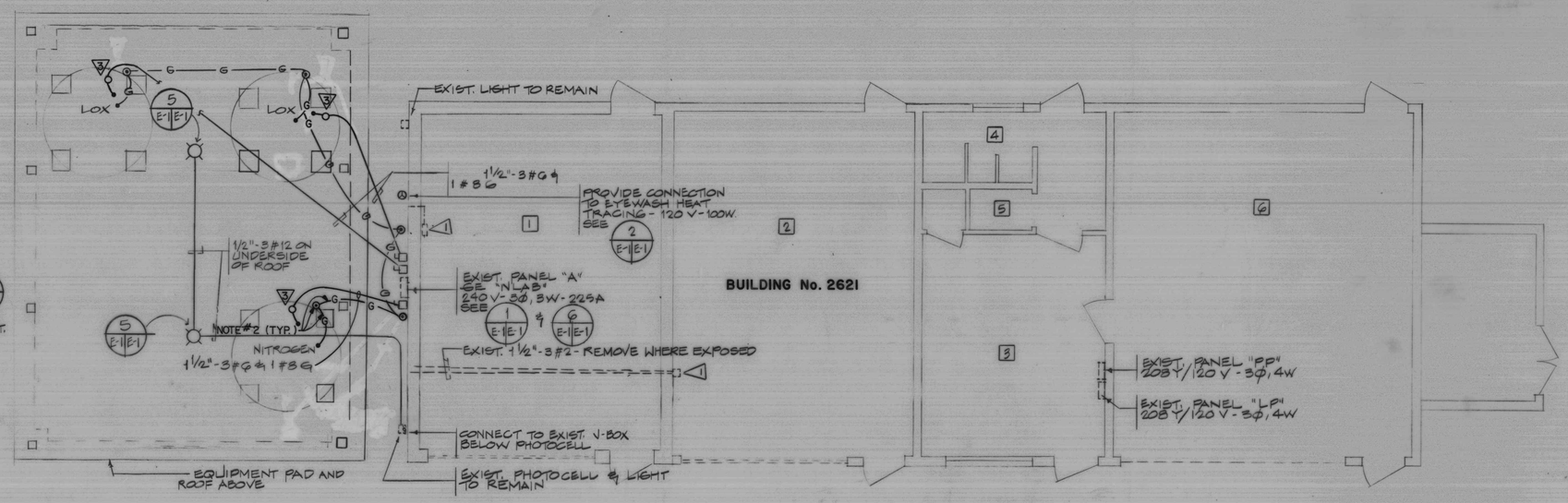
REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED
	GENERAL MODIFICATIONS I	RBS	5-20-92	



LIGHT FIXTURE DETAIL (5 / E-1 | E-1)

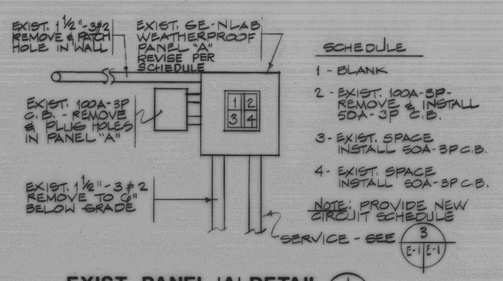
NO SCALE

DESCRIPTION: 70 WATT HIGH PRESSURE SODIUM LAMP, HIGH POWER FACTOR BALLAST, 120V. ALUMINUM HOUSING, PRISMATIC GLASS LENS, SHOCK RESISTANT, LISTED FOR DAMP LOCATION.



FLOOR PLAN

1/4"=1'-0"



SCHEDULE

1 - BLANK

2 - EXIST. 100A-3P - REMOVE & INSTALL 50A-3P C.B.

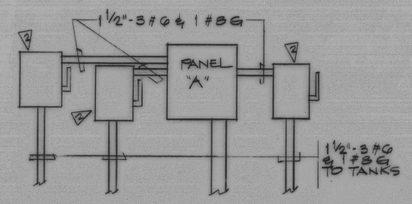
3 - EXIST. SPACE INSTALL 50A-3P C.B.

4 - EXIST. SPACE INSTALL 50A-3P C.B.

NOTE: PROVIDE NEW CIRCUIT SCHEDULE

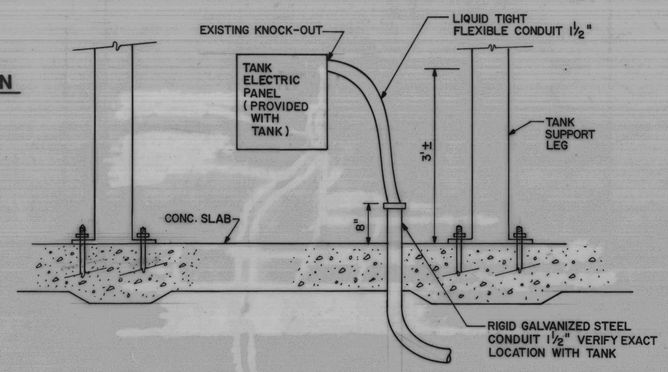
EXIST. PANEL 'A' DETAIL (1 / E-1 | E-1)

NO SCALE



REVISED ELEVATION (6 / E-1 | E-1)

NO SCALE



TANK CONNECTION DETAIL (4 / E-1 | E-1)

NO SCALE

FLAG NOTES

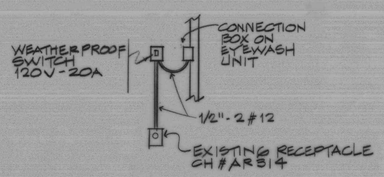
1. EXISTING JUNCTION BOX - REMOVE.
2. NEW EMERG DISCONNECT SWITCH 240V-60A-3Ø WP. LOCKABLE IN "OFF" POSITION.
3. CONNECTION TO TANK PER 4 / E-1 | E-1. VERIFY EXACT STUB-UP LOCATION.

LEGEND

- —G— GROUND CABLE (NOTE #2)
- — — — EXIST CONDUIT OR DEVICE AS INDICATED
- ——— NEW CONDUIT & WIRE
- ⊙ GROUND ROD (NOTE #2)

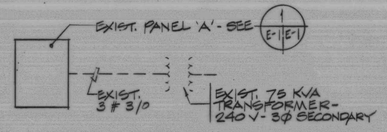
ABBREVIATIONS

G	GROUND CONDUCTOR
V	VOLTS
EXIST.	EXISTING
A	AMPS
CB	CIRCUIT BREAKER
P	POLE
Ø	PHASE
W	WIRE
WP	WEATHERPROOF



EYEWASH CONNECTION DETAIL (2 / E-1 | E-1)

NO SCALE



RISER DIAGRAM (3 / E-1 | E-1)

GENERAL NOTES

1. DEMOLITION: REMOVE EXIST CONDUIT & WIRE UNDER EXIST SLAB TO BE REMOVED. REMOVE CONNECTIONS TO EXIST TANKS. REMOVE EXIST CANOPY (TO BE REMOVED) LIGHTS AND ASSOCIATED CONDUIT & WIRE BACK TO J-BOX BELOW PHOTOCELL. ALSO SEE DETAIL NO. 1 AND FLOOR PLAN.
2. ALL EQUIPMENT TO BE STATIC GROUNDED. GROUND RODS TO BE INSTALLED WITH TOP 3" ABOVE SLAB OR GRADE. GROUND CABLE #1/0 BARE COPPER BELOW SLAB OR GRADE. CONNECT TO EXISTING GROUND SYSTEM. BOND TO EACH TANK.
3. ELECTRICAL CONDUIT FOR TANKS SHALL BE BURIED UNDER THE CONCRETE SLABS. CUT AND PATCH EXISTING CONCRETE FOR NEW CONDUIT RUNS WHERE REQUIRED.

GRAPHIC SCALE: 1/4" = 1'-0" 0 1 2 4 10

JOHN O. OLSEN — STATE OF WASHINGTON — 21766 — REGISTERED PROFESSIONAL CIVIL ENGINEER — 3/20/92

ROBERT B. SPARLING — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT — SCALE REDUCED ACCORDINGLY

E-1

REID MIDDLETON, 19033 33rd Ave. W., Suite 201, Lynnwood, Washington 98036, 206/775-3434		DEPARTMENT OF THE NAVY NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON	
DSGN. RBS	DR. PAD	CHK. RBS	SPECIAL PROJECT E(C) (R) 9-87 REPLACE TANKS AT LOX FACILITY ELECTRICAL PLANS & DETAILS
SUPV. RBS		CH. ENGR. RBS	
SUBMITTED BY (FIRM MEMBER TITLE)		DATE 1/26/95	
E.I.C. RK 5/23/92	FIRE PROT.		
SEC. HO	DIV. HO 6/17/92		
SATISFACTORY TO		DATE	SIZE F; CODE IDENT. NO. 80091; NAVFAC. DRAWING NO. 6355208
TITLE		6/22/92	CONST. CONTR. NO. N62474-92-C-3049
CONCURRENCE		DATE 6/18/92	SCALE AS SHOWN; SPEC. 12-92-3049; SHEET 8 OF 8
APPROVED		DATE	
EFD FOR COMMANDER, NAVFAC			

NASM 11100/1 (Rev 7-88) FILE: 2621 U.S. GOVERNMENT PRINTING OFFICE: 1985-595-059

ORIGINAL - - COPY

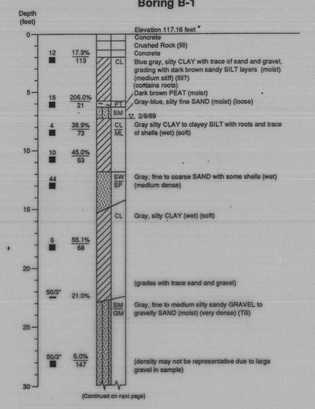
Replace Tanks at LOX Facility N62474-92-C-3049 8 of 8

6355208

CAD FILE CORN. RIVER, CA

REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED

Boring B-1



KEY

55.1% — Moisture Content in percent
68 — Dry Density in PCF

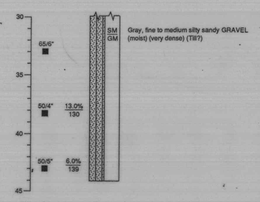
4 — Blows required to drive 2.42-inch I.D. split barrel sampler 1 foot with a hammer weight of 140 pounds and a stroke of 30 inches
■ — Indicates depth at which relatively undisturbed sample was extracted
⊠ — Indicates depth of disturbed sample
□ — Indicates sample attempt with no recovery

* Elevations in feet, MSL datum. Elevations were provided by Reid, Middleton & Associates, Inc.

LANDAU ASSOCIATES, INC. | Log of Boring B-1 (Page 1 of 2)

Figure A-1

Boring B-1 (cont.)

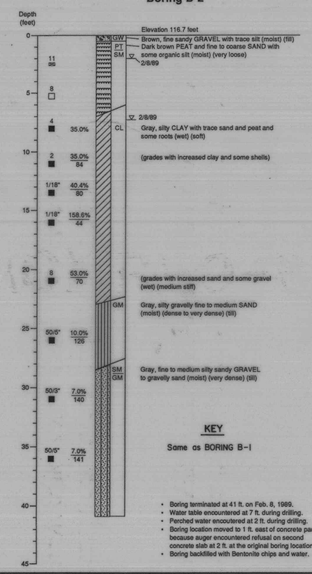


- Boring terminated at 44 ft. on Feb. 8, 1989.
- Water table encountered at 7 ft. during drilling.
- Boring backfilled with Bentonite chips and water; 1.5 ft. concrete at surface.

LANDAU ASSOCIATES, INC. | Log of Boring B-1 (Page 2 of 2)

Figure A-1

Boring B-2



KEY

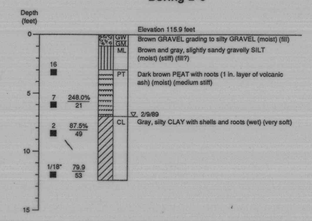
Same as BORING B-1

- Boring terminated at 41 ft. on Feb. 8, 1989.
- Water table encountered at 7 ft. during drilling.
- Perched water encountered at 2 ft. during drilling.
- Boring location moved to 1 ft. east of concrete pad because auger encountered refusal on second concrete slab at 2 ft. at the original boring location.
- Boring backfilled with Bentonite chips and water.

LANDAU ASSOCIATES, INC. | Log of Boring B-2

Figure A-2

Boring B-3



- Boring terminated at 12.5 ft. on Feb. 9, 1989.
- Water table encountered at 7 ft. during drilling.
- Boring backfilled with Bentonite chips and water.

KEY

Same as BORING B-1

LANDAU ASSOCIATES, INC. | Log of Boring B-3

Figure A-3

Unified Soil Classification System

MAJOR DIVISIONS			GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS More than 50% of material is larger than #200 sieve size	GRAVEL AND GRAVELLY SOILS More than 50% of coarse fraction retained on #4 sieve	CLEAN GRAVELS (Little or no fines)		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
				GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
		GRAVELS WITH FINES (Appreciable amount of fines)		GM	Silty gravels, gravel-sand-silt mixtures
				GC	Clayey gravels, gravel-sand-clay mixtures
	SAND AND SANDY SOILS More than 50% of coarse fraction passing #4 sieve	CLEAN SAND (Little or no fines)		SW	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly-graded sands, gravelly sands, little or no fines
		SANDS WITH FINES (Appreciable amount of fines)		SM	Silty sands, sand-silt mixtures
				SC	Clayey sands, sand-clay mixtures
FINE GRAINED SOILS More than 50% of material is smaller than #200 sieve size	SILTS AND CLAYS Liquid Limit less than 50			ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
				OL	Organic silt and organic silty clays of low plasticity
	SILTS AND CLAYS Liquid Limit greater than 50			MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils
				CH	Inorganic clays fo high plasticity, fat clays
				OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS				PT	Peat, humus, swamp soils with high organic contents

Note: Dual symbols are used to indicate borderline soil classifications

LANDAU ASSOCIATES, INC. | Unified Soil Classification System

A-8

Figure A-4

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT — SCALE REDUCED ACCORDINGLY

GT-1

JOHN O. OLSEN, STATE OF WASHINGTON, 21604, PROFESSIONAL CIVIL ENGINEER, 7/20/92

REID MIDDLETON 19031 33rd Ave. W., Suite 301, Lynnwood, Washington 98036 206/775-3434			DEPARTMENT OF THE NAVY NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON
DSGN. LAI	DR. BDM	CHK. JOO	SPECIAL PROJECT E(C) (R) 9-87 REPLACE TANKS AT LOX FACILITY SOILS BORING LOGS
SUPV. JAK		CH. ENGR. JOO	
SUBMITTED BY (VICE PRES.)		DATE 7/20/92	
E.I.C. DIV. 5/27/92	FIRE PROT.		
SEC. HD	DIV. HD 6/17/92		
SATISFACTORY TO		DATE	SIZE F / CODE IDENT. NO. 80091 / NAVFAC. DRAWING NO. 6355202
APPROVED		DATE	CONST. CONTR. NO. N62474-92-C-3049
EFD FOR COMMANDER NAVFAC			SCALE AS SHOWN / SPEC. 12-92-3049 / SHEET 3 OF 8

CONCURRENCE PRO — DATE 6/19/92

NASW 11100/1 (Rev 7-88) FILE: 2621 U.S. GOVERNMENT PRINTING OFFICE:1985-506-200

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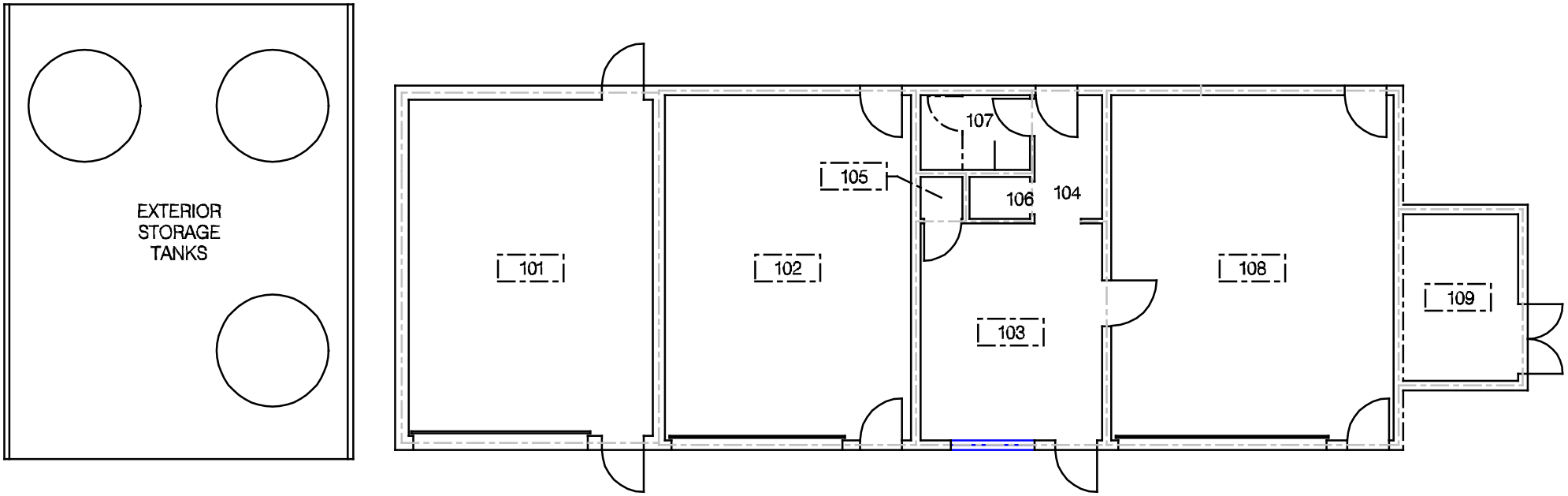
Replace Tanks at LOX Facility N62474-92-C-3049 3 of 8

6355202

6355202

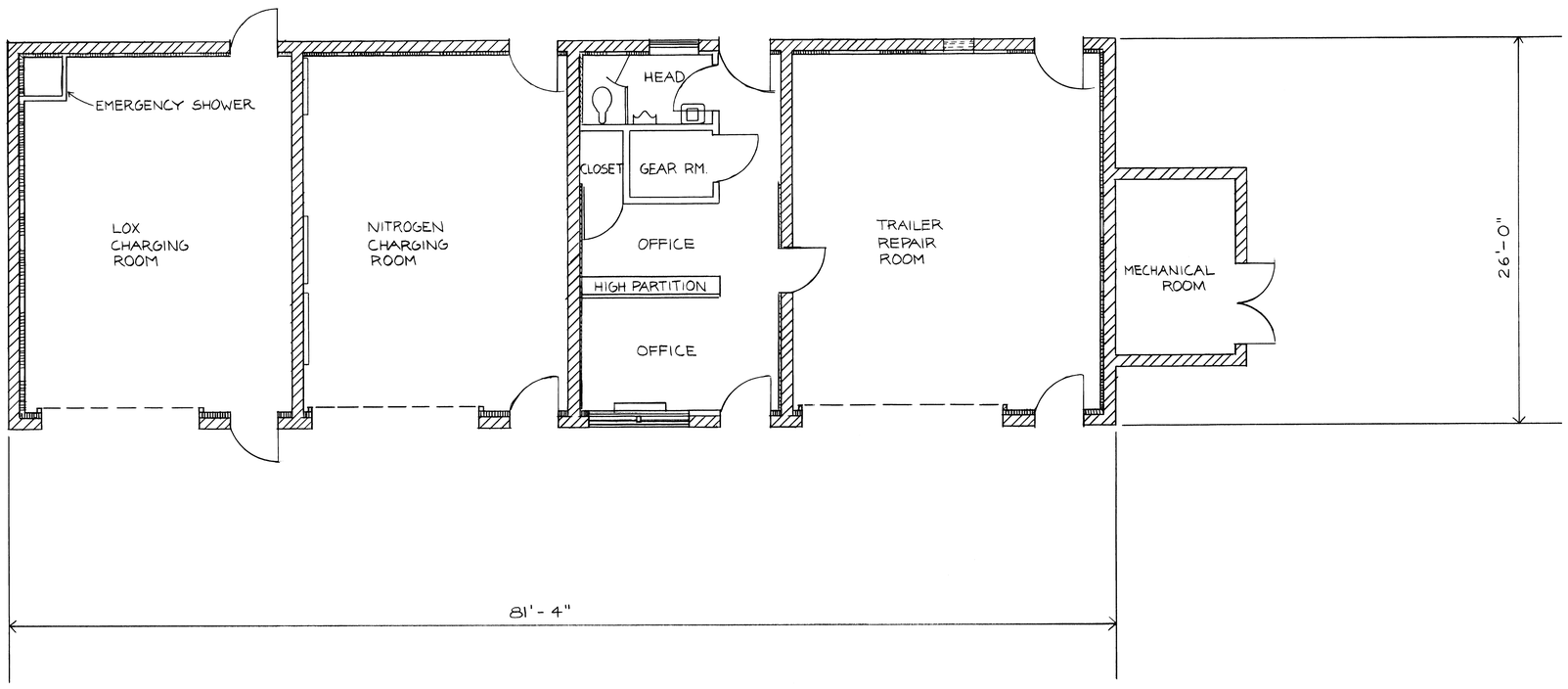
LOX FACILITY IMPROVEMENTS



BUILDING 2621

FIRST FLOOR PLAN

...\main\flrplan\a_2621_1.dgn Apr. 02, 2001 14:26:59



SYMBOL	DESCRIPTION	DATE	APPRD.
	REVISIONS		

DEPARTMENT OF THE NAVY

NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

DES.
DRWN. J. REDO
CIVIL
ARCH.
STRUCT.
MECH.
ELEC.
CHK. CR
EIC C. Rhodes
DIRECTOR R Ripley
SATISFACTORY TO:

SIGNATURE TITLE DATE

RECORD DRAWING
LOX FACILITY
BLDG 2621

APPROVED [signature] LT, CEC, USN DATE 9-8-82
PUBLIC WORKS OFFICER

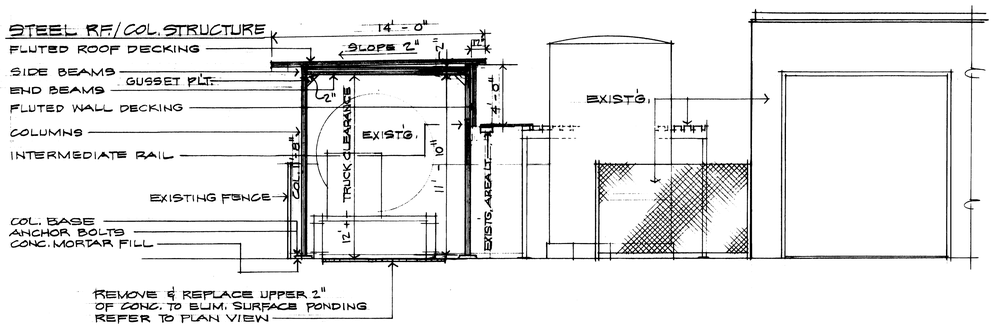
SCALE: 1/4" = 1'-0" DATE DRWN: 8-6-82
SHEET 1 OF 1
FILE REC. DRWG. P.W. DWG. NO.

13ND NASW 11012/1 (REV. 9-79)

1 of 1

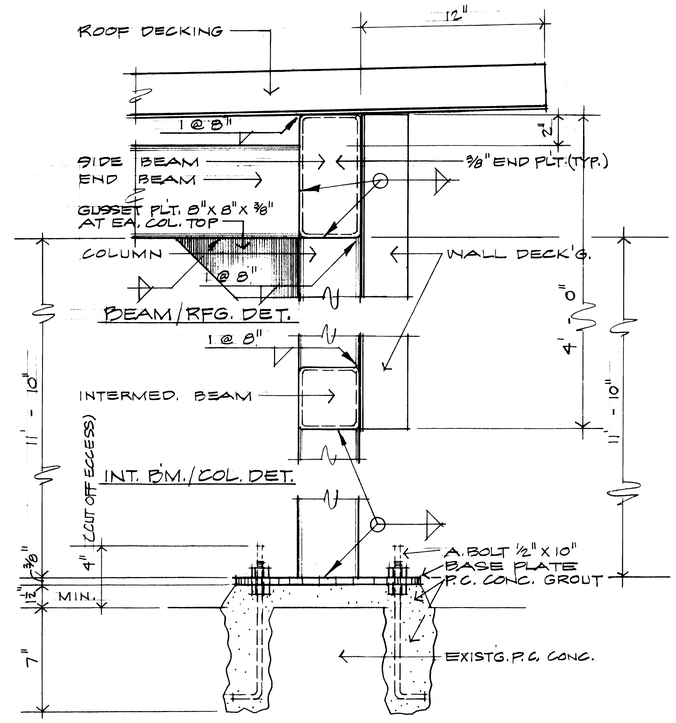
EAST FILE CORP IRVINE CA EFH 30

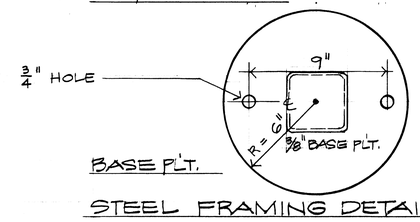
82



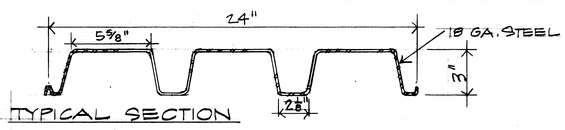
WEST ELEV. TRANSFER COMPOUND ROOF STRUCTURE

SCALE 1/4" = 1'

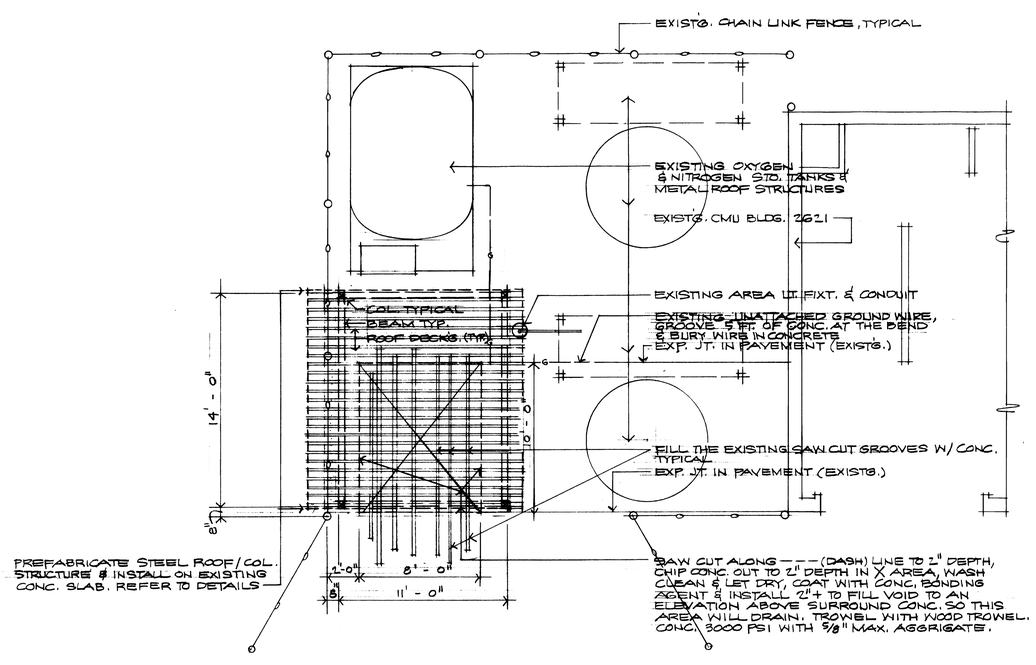




STEEL FRAMING DETAILS SCALE 3" = 1'



ROOF & WALL DECKING DETAIL SCALE 3" = 1'



PLAN VIEW TRANSFER COMPOUND

SCALE 1/4" = 1'

MATERIAL SCHEDULE

MATERIAL	QUAN.	DESCRIPTION	REMARKS
FLUTED ROOF & WALL DECKING	7 EA 14' 7 EA 4'	INTERLOCKING AT JOINTS OF 24 INCH WIDE (NET) SHEETS OF FLUTED 18 GA. PRIMED STEEL, 3 INCHES THICK, 5 5/8" & 2 5/8" FLUTES DESIGNED AS LONG-SPAN DECKING. ATTACH BY ONE INCH FILLET WELD ALONG BA. CONTACT BETWEEN DECKING (SIDING) & BEAM.	PAINT AFTER ERECTED SEE DECKING SECTION
SIDE BEAMS	2 EA. 14'	STRUCTURAL STL. TUBING, 4" x 8" x 1/4" (19.02), COLD FORMED, ASTM A500, GRADE B	WELD 4" x 8" x 1/8" PLATES TO ENDS & GRIND TO MATCH
END BEAMS	2 EA. 10'-4"	SAME AS SIDE BEAMS EXCEPT 4" x 6" x 1/4" (15.62)	FILLET WELD AT ENDS TO SIDE BMS.
COLUMNS	2 EA. 11'-8" & 11'-10"	SAME AS SIDE BEAMS EXCEPT 4" x 4" x 3/8" (17.27)	FILLET WELD AT ENDS TO SIDE BMS. & TO BASE PLATES
BASE PLATES	4 EA. 12" DIA.	ROUND 3/8" STEEL WITH TWO 3/4" DIA. HOLES FOR BOLTS, SEE DETAIL. GRIND EDGES TO SMOOTH	
CONCRETE AT BASE PLATE & BOLTING	N.A.	PORTLAND CEMENT, 3/8" MAX. AGGREGATE, DRYER MIX, 3000 PSI	VIBRATE WELL
CONC. SLAB	2 C.YD.	SAME AS ABOVE	VIB. WELL & MEET EXISTG/ELEV.
INTERMED. RAIL	ONE EA. 13'-4"	SAME AS COLUMNS ABOVE	FILLET WELD AT ENDS TO COLS. SEE DETAIL
PAINT	VARIES	PAINT ALL STEEL WORK. CLEAN WELDS AFTER GRINDING, CLEAN STEEL WITH WIRE BRUSH & HOT WATER DETERGENT SOLUTION, APPLY ONE CT. ALKYD EXT. PRIMER & TWO CTS. LATEX ENAMEL. COLOR # 26306	

SYMBOL	DESCRIPTION	DATE	APPRD.
	REVISIONS		

DEPARTMENT OF THE NAVY

NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

DES. C.R.
DRWN. C.R.
CIVIL
ARCH. C. RHOADES
STRUCT.
MECH.
ELEC.
CHK.
EIC C. A. Rhoades
DIRECTOR L.F. Ripley

ROOF STRUCTURE FOR TRANSFER COMPOUND, BLDG. 2621

APPROVED [signature] PUBLIC WORKS OFFICER DATE 6/11/82

SATISFACTORY TO: Supply
[signature] 6-11-82
SIGNATURE TITLE DATE

SCALE: SEE DET. DATE DRWN: 6-11-82
SHEET 1 OF 1
FILE 2621 P.W. DWG. NO. 82-55

13ND NASW 11012/1 (REV. 9-79)

82-55

PW 82-55
1 of 1