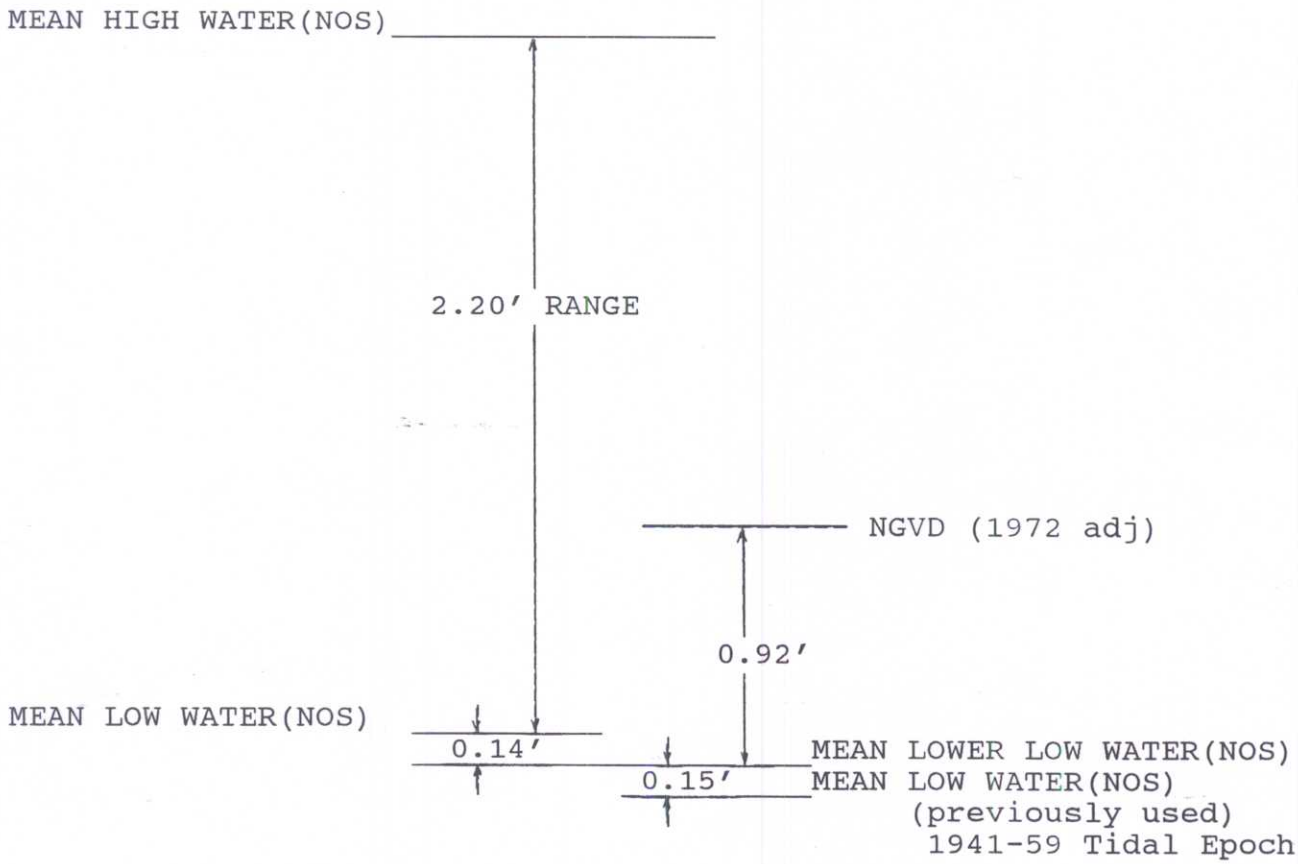
Survey Appendix

SKIFFE'S CREEK CHANNEL

SOUNDINGS are in feet referred to Mean Lower Low Water (MLLW) and were taken on dates shown adjacent to the channel.

MEAN LOWER LOW WATER was determined by interpolating between MLLW-NGVD differentials at Scotland and Burwell Bay based on National Ocean Service (NOS) tidal observations and Corps of Engineers leveling. MLLW is 0.92 feet below the National Geodetic Vertical Datum (NGVD), 1972 adjustment.

MEAN RANGE OF TIDE is 2.20 feet based on interpolation between NOS observations at Scotland, 1.87 feet, and Burwell Bay, 2.42 feet.



DATUM DIAGRAM
1960-78 Tidal Epoch
(not to scale)

Fort Eustis
SEPT 2001

U.S. ARMY CORPS OF ENGINEERS
HORIZONTAL & VERTICAL CONTROL SURVEY

COORDNATES NORTH (Y)	EAST (X)	STATION DESIGNATION	ADJUSTED (Meters)	ELEVATION (Feet)
309325.651	2552035.712	THIRD	2.554	8.380
309770.097	2552193.807	PORT	2.508	8.228
297530.361	2551434.351	FELKER	2.113	6.933
296797.265	2552266.900	HANGER	2.344	7.690

DATUMS:
HORIZONTAL: Coordinates are in U.S. Survey Foot referred to the Virginia State Grid (South Zone) and are based on the North American Datum of 1927 (NAD-27).

VERTICAL: Elevations are referred to the National Geodetic Vertical Datum of 1929, 1972 Adjustment (NGVD-29, 72 Adj.)

MONUMENT DESCRIPTION FORM

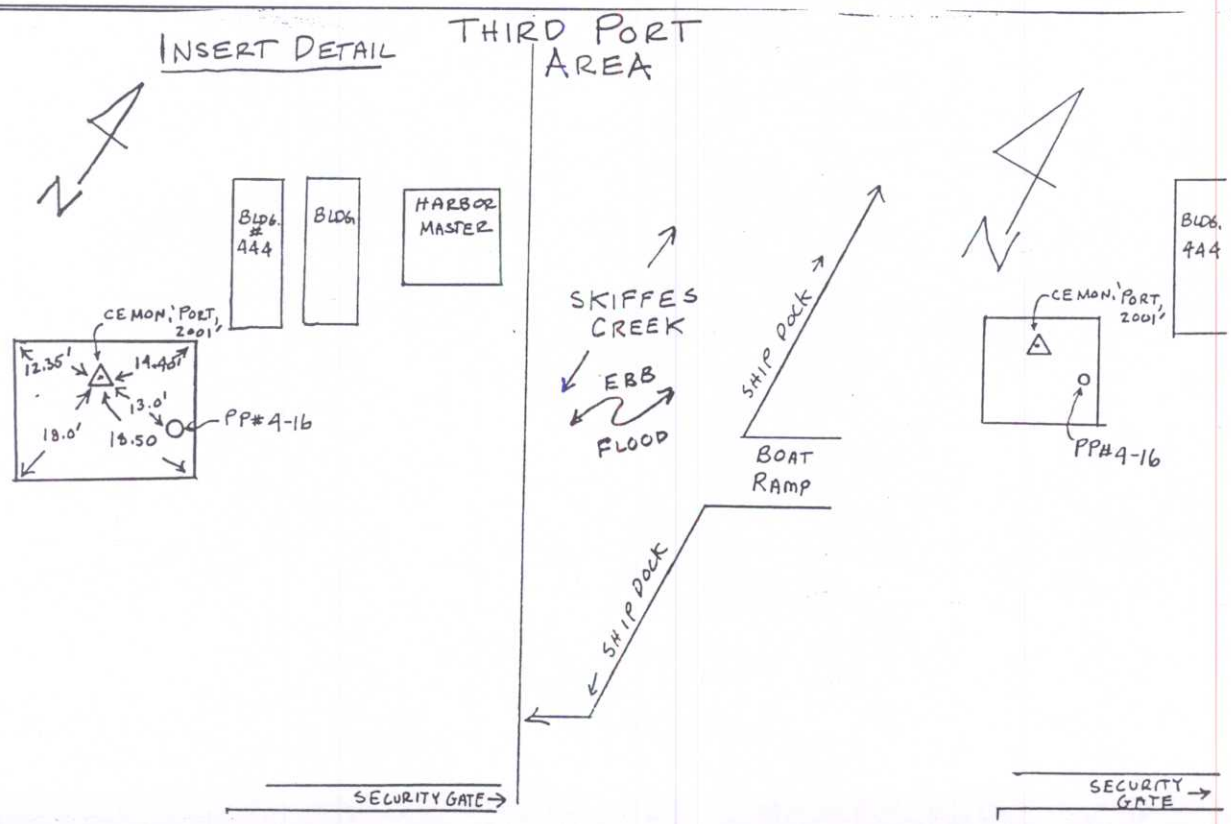
U.S ARMY
CORPS OF ENGINEERS
NORTH ATLANTIC DIVISION
NORFOLK DISTRICT

NAME OF STATION: PORT	**COUNTY, STATE:** NEWPORT NEWS, VA
ESTABLISHED BY: ARMY CORPS OF ENGINEERS PARTY: Control CHIEF: MAW	**YEAR:** 2001
LOCALITY: FORT EUSTIS	**QUAD:** YORKTOWN
CHARACTER OF MARK: STANDARD USACE DISK ON AUMINUM PIPE SET IN CONRETE	**STAMPING:** PORT 2001
HORZ. X **VERT.** X	

DETAILED DESCRIPTION:

From Fort Eustis maingate, go southwest on Washington Blvd. for 0.60 mile to Lee Blvd. Turn right and continue northwest for 1.1 miles on Lee Blvd. to Kerr Rd. Turn right on Kerr Rd.(Third Port entrance) and continue northwesterly for 0.40 mile through guard gate, turn right and continue in an easterly direction to the boat ramp. Monument is located near a power pole at boat ramp. Monument is set 0.2' below the ground.

Monument is : 14.40' SW of the NE corner of sidewalk.
13.00' West of the east side center of PP# 4/16.
18.50' NW of the SE corner of sidewalk.
18.00' NE of the SW corner of sidewalk.
12.35' SE of the NW corner of the sidewalk.



MONUMENT DESCRIPTION FORM

U.S ARMY
CORPS OF ENGINEERS
NORTH ATLANTIC DIVISION
NORFOLK DISTRICT

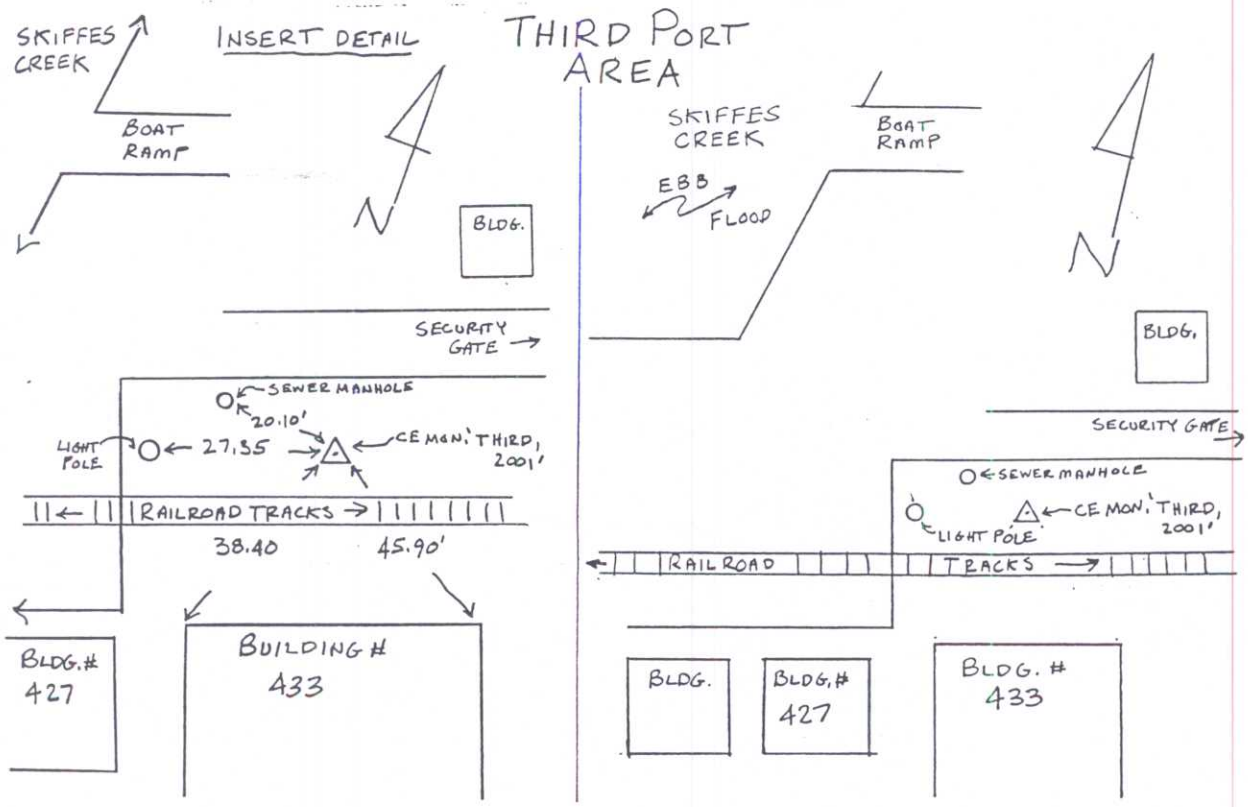
NAME OF STATION: THIRD	**COUNTY, STATE:** NEWPORT NEWS, VA
ESTABLISHED BY: ARMY CORPS OF ENGINEERS PARTY: Control CHIEF: MAW	**YEAR:** 2001
LOCALITY: FORT EUSTIS	**QUAD:** YORKTOWN
CHARACTER OF MARK: STANDARD USACE DISK ON ALUMINUM PIPE SET IN CONCRETE	**STAMPING:** THIRD 2001
HORZ. X **VERT.** X	

DETAILED DESCRIPTION:

From Fort Eustis maingate, go southwest on Washington Blvd. for 0.60 mile to Lee Blvd. Turn right and continue northwest for 1.1 miles on Lee Blvd. to Kerr Rd. Turn right on Kerr Rd.(Third Port entrance) and continue northwesterly for 0.40 mile through guard gate to monument. Monument is flush with the ground.

Monument is : 45.90' NW of the NE corner of Bldg. # 433.
38.40' NE of the NW corner of Bldg. # 433.
27.35' East of center of light pole.
20.10' SE of sewer manhole.

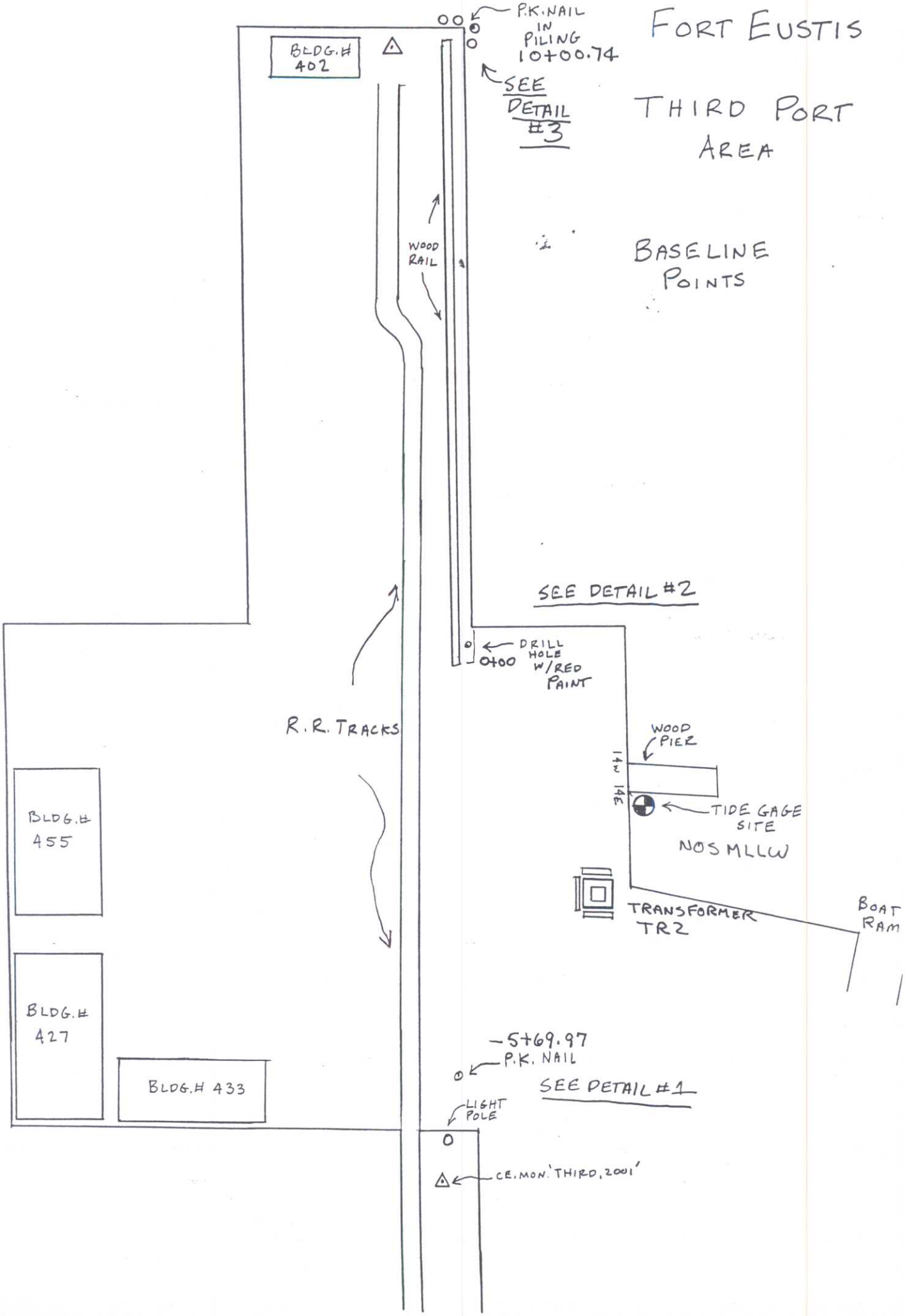
Sketch:



FORT EUSTIS

THIRD PORT AREA

BASELINE POINTS

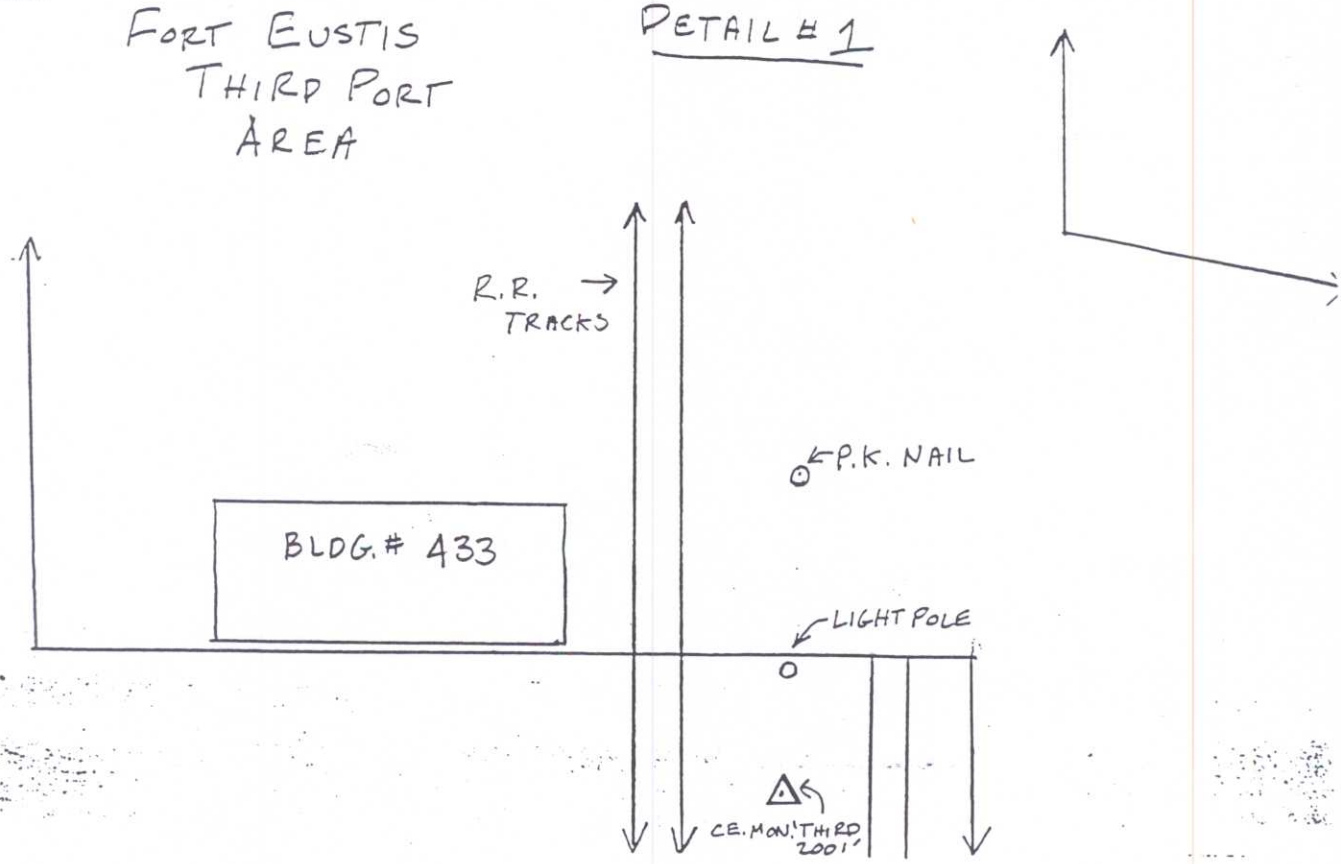


MONUMENT DESCRIPTION FORM

U.S ARMY
CORPS OF ENGINEERS
NORTH ATLANTIC DIVISION
NORFOLK DISTRICT

NAME OF STATION: -5+69.97	**COUNTY, STATE:** NEWPORT NEWS, VA
ESTABLISHED BY: ARMY CORPS OF ENGINEERS PARTY: Control CHIEF: MAW	**YEAR:** 2002
LOCALITY: FORT EUSTIS	**QUAD:** YORKTOWN
CHARACTER OF MARK: PK NAIL	**STAMPING:** NONE
HORZ. X **VERT.**	
DETAILED DESCRIPTION: **Monument is :**	

Sketch:

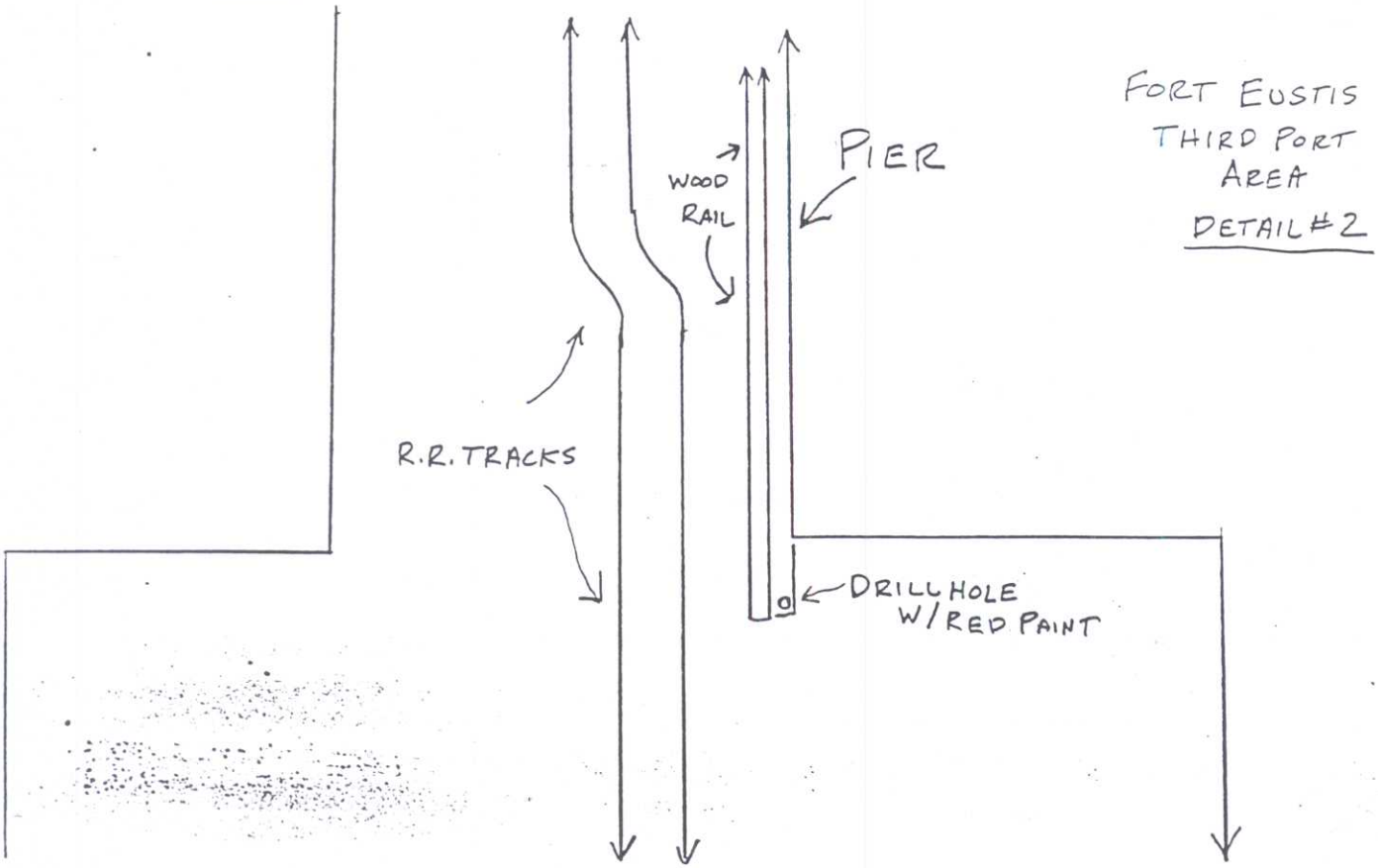


MONUMENT DESCRIPTION FORM

U.S ARMY
CORPS OF ENGINEERS
NORTH ATLANTIC DIVISION
NORFOLK DISTRICT

NAME OF STATION: 0+00	**COUNTY, STATE:** NEWPORT NEWS, VA
ESTABLISHED BY: ARMY CORPS OF ENGINEERS PARTY: Control CHIEF: MAW	**YEAR:** 2002
LOCALITY: FORT EUSTIS	**QUAD:** YORKTOWN
CHARACTER OF MARK: DRILL HOLE IN CONCRETE NEAR BOAT RAMP	**STAMPING:** NONE
HORZ. X **VERT.**	
DETAILED DESCRIPTION: **Monument is :**	

Sketch.

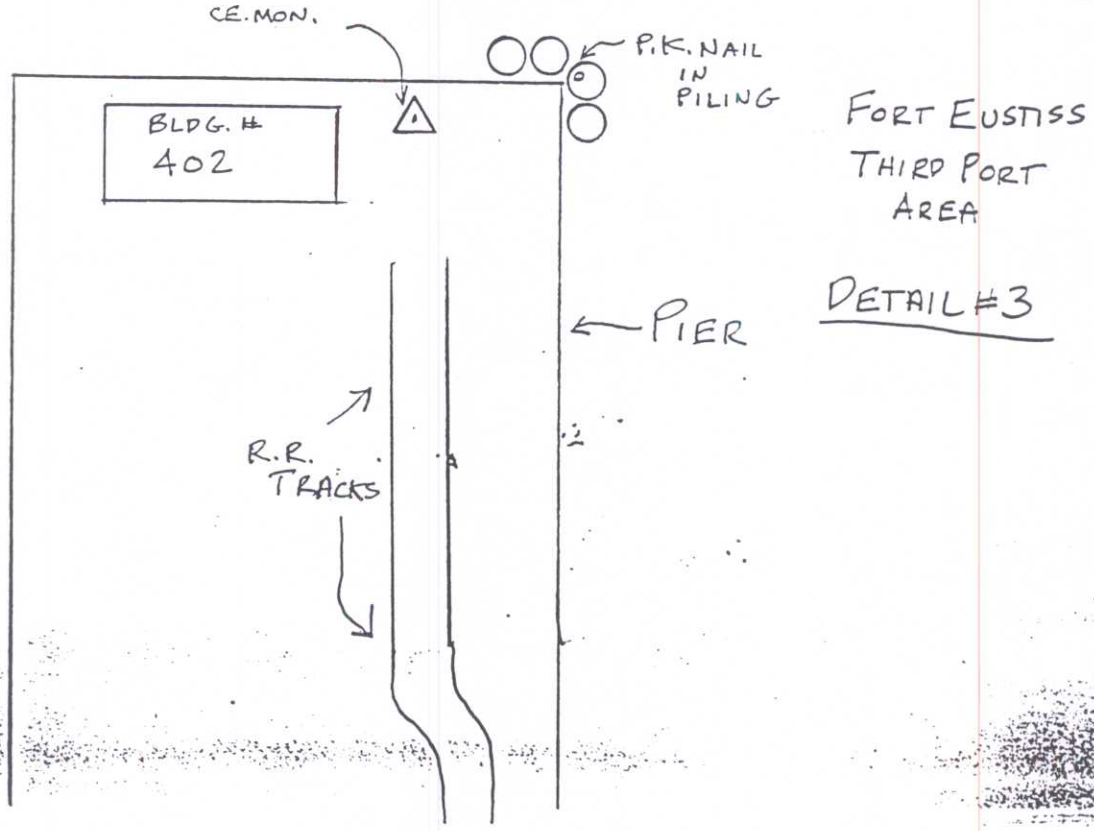


MONUMENT DESCRIPTION FORM

U.S ARMY
CORPS OF ENGINEERS
NORTH ATLANTIC DIVISION
NORFOLK DISTRICT

NAME OF STATION: 10+00.74	**COUNTY, STATE:** NEWPORT NEWS, VA
ESTABLISHED BY: ARMY CORPS OF ENGINEERS PARTY: Control CHIEF: MAW	**YEAR:** 2002
LOCALITY: FORT EUSTIS	**QUAD:** YORKTOWN
CHARACTER OF MARK: PK NAIL	**STAMPING:** NONE
HORZ. X **VERT.**	
DETAILED DESCRIPTION: **Monument is :**	

Sketch:

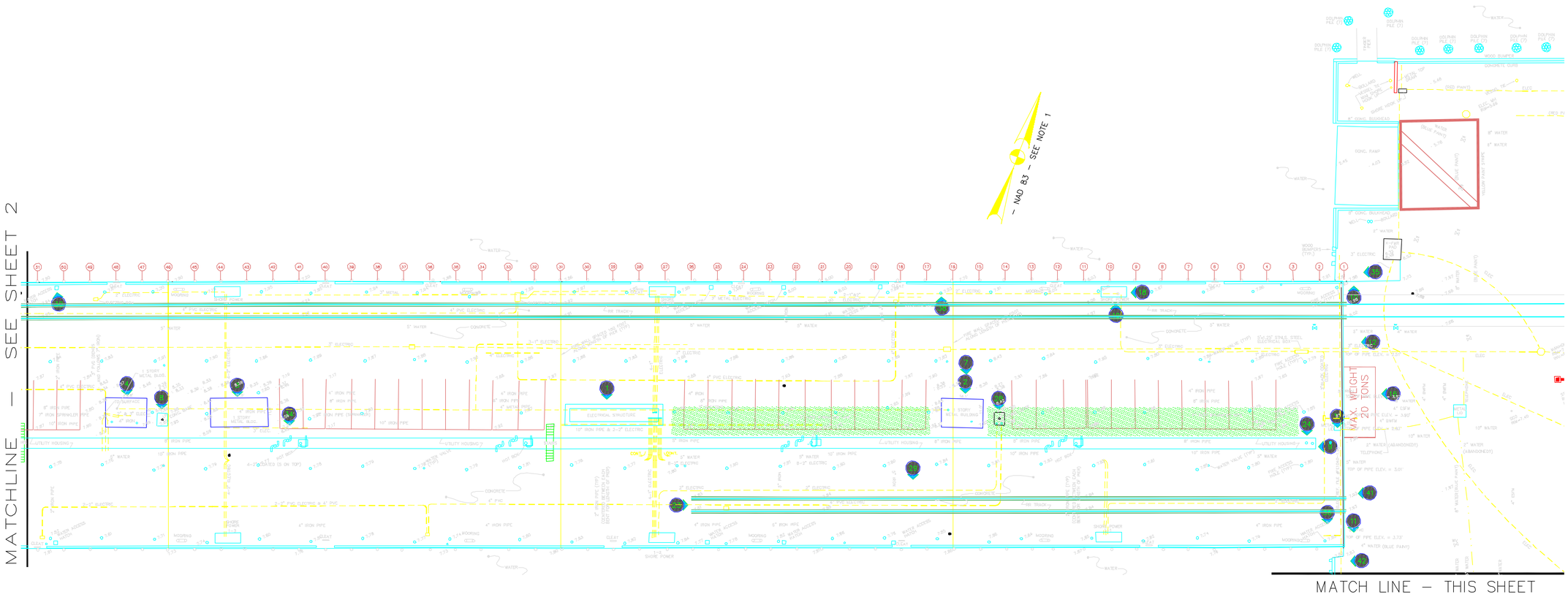


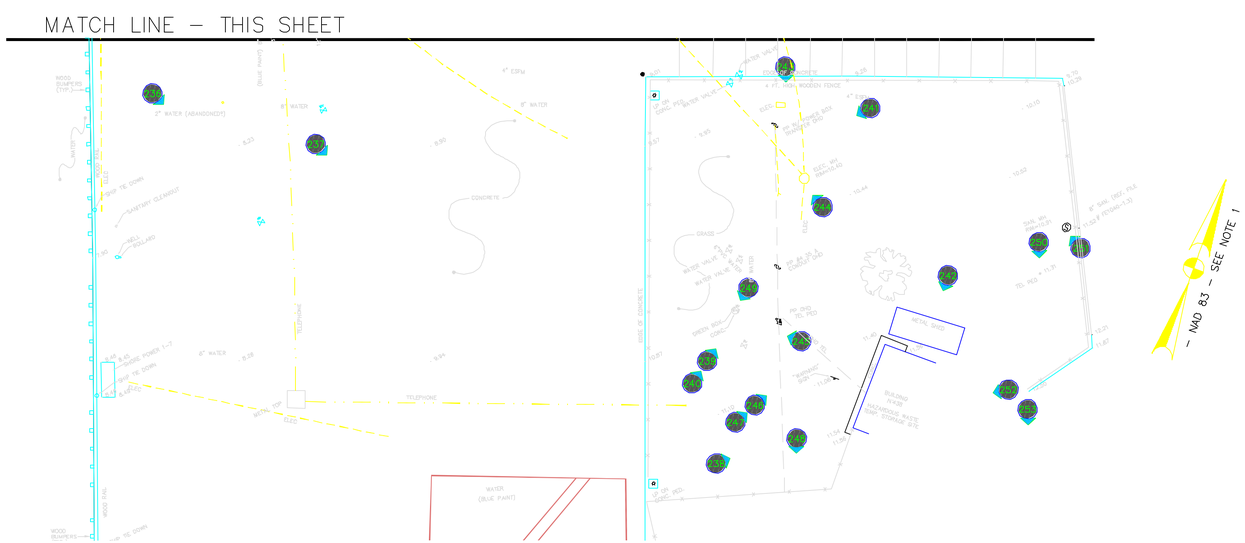
Existing Condition Photographs
by The TAF Group
3rd Port Pier
Ft. Eustis, VA

A. Drawings

Sheet P-1 – Photograph reference sheet (top of pier)
Sheet P-2 – Photograph reference sheet (top of pier)
Sheet P-3 – Photograph reference sheet (beneath pier)
Sheet P-4 – Photograph reference sheet (beneath pier)

B. Photographs





NOTES:

1. Horizontal Datum: Virginia State Plane, South Zone, NAD 83 – Derived from field ties to Fort Eustis NAD27 Control Monuments TA-4, TCD-2, and TCD-4. NAD27 values translated to NAD83 by using CORPSCON program.
2. Vertical Datum: NGVD29-1972 Adjustment – derived from field ties to Fort Eustis Control Monuments TA-4, TCD-2, and TCD-4.
3. Hydrographic Survey datum based on National Ocean Service (NOS) Mean Lower Low Water (MLLW) 1960-1978 tidal epoch (U.S. Survey Feet). Station #863-8610, Sewell's Point, Hampton Roads, Virginia. Verified water level data was used to determine local depths and corrected based on an average time corrector value (126 minutes) and range corrector multiplier (0.91) provided by NOAA, Silversprings, Md., (301) 713-2890.
4. Piles shown benieth the Main Pier have not been field located and are shown as dimensioned on original design documents.
5. This survey was made on the ground from May 16th 2000 to July 6th 2000.
6. Underground utility locations are based on observed above ground utility structures, valves, boxes, etc. No underground utility location was performed by The TAF Group. Underground utility types and sizes are as shown on design plans recovered in the Fort Eustis Directorate of Public Works Plan Room. Plans are referenced by thier FE N's.
7. Utilities shown beneath the pier are based on a field survey. The types and sizes were determined by visual inspection, field measurements, and by referring to design plans recovered in the Fort Eustis Directorate of Public Works Plan Room.
8. Utility and Drainage manholes, boxes, and other structures not shown with invert data were corroded shut and not accessible.
9. Please refer to Photographs provided and Photograph Reference Sheets P-1 thru P-4.
10. Please refer to the compact disk provided for scanned images of all plans recovered by research in the Fort Eustis Directorate of Public Works Plan Room.

20' 10' 0 20' 40' 60'

SCALE 1"= 20'

PHOTOGRAPH REFERENCE SHEET – TOP

THE TAF GROUP
ARCHITECTURE•ENGINEERING•CONSTRUCTION•SURVEYORS
100 LANDMARK SQUARE • VIRGINIA BEACH, VA 23452
PHONE: (757) 340-5055 • FAX: (757) 422-3790

UPGRADE MAIN PIER

Project N° 21177

Fort Eustis, Virginia

Contract N° DACA65-98-D-0043 CALL N° 0011

FOR

United States Army Corps of Engineers

Norfolk District, Virginia

DRAWN: TJR

CHECKED: HRF

SCALE: 1"=20'

DATE: 07/18/00

F.B.#: PG:

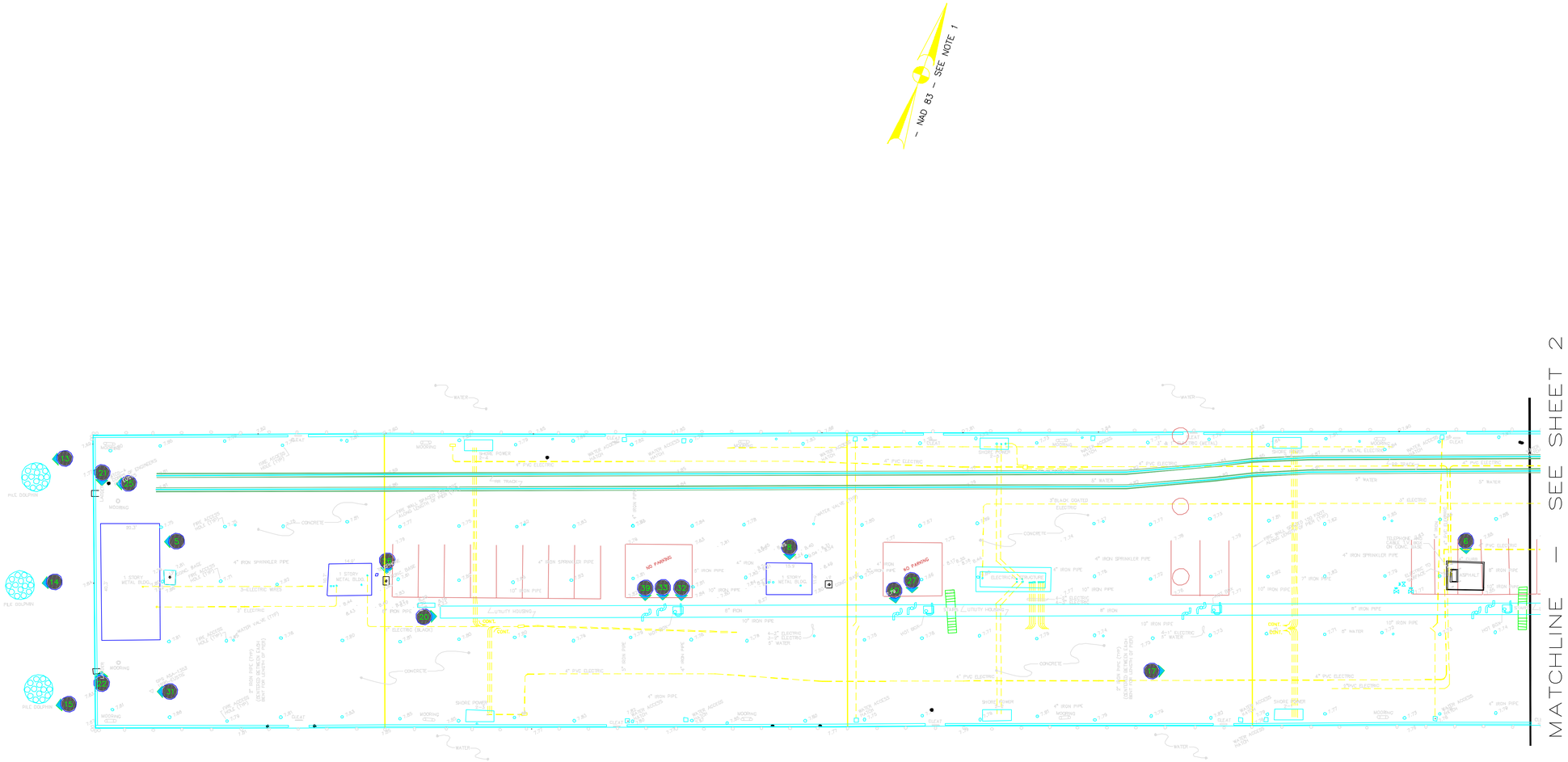
FILE NO.:

PROJECT NO.:000834

REVISED: 04/06/01 PER USACE COMMENTS

SHEET NO. P-1

OF 15 SHEETS



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20' 10' 0 20' 40' 60'

SCALE 1"= 20'

PHOTOGRAPH REFERENCE SHEET – TOP

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UPGRADE MAIN PIER
Project N° 21177
Fort Eustis, Virginia
Contract N° DACA65–98–D–0043 CALL N° 0011
FOR
United States Army Corps of Engineers
Norfolk District, Virginia

Ref S:

DRAWN:	TJR
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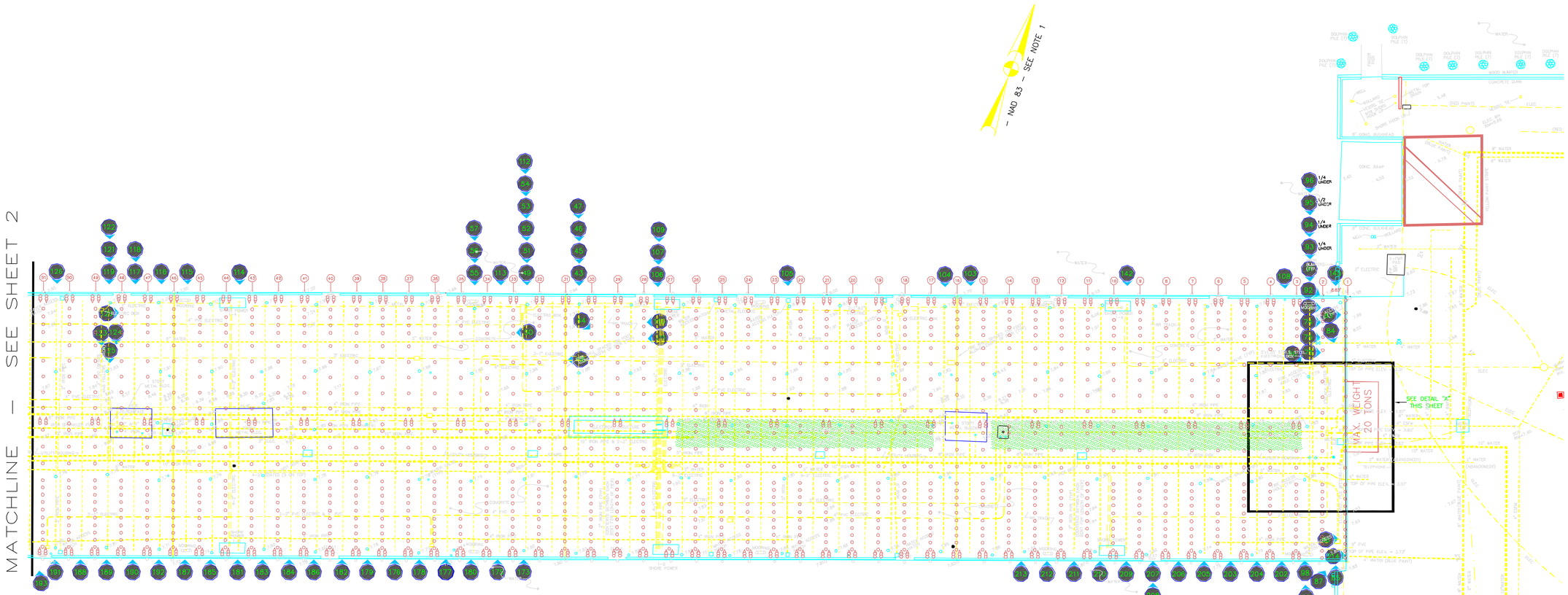
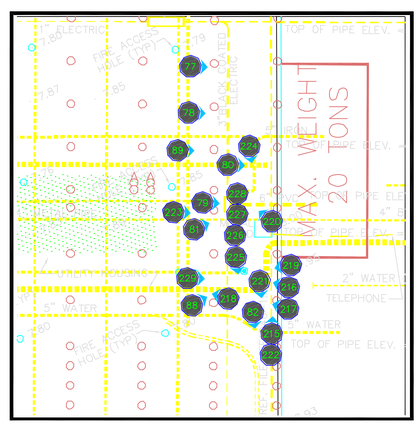
DATE:	07/18/00
F.B.#:	PG:
FILE NO.:	
PROJECT NO.:	000834

REVISED: 04/06/01 PER USACE COMMENTS

SHEET NO. P–2
OF 15 SHEETS





DETAIL "A"

10' 5' 0 10' 20' 30'

SCALE 1"= 10'

NOTES:

1. Horizontal Datum: Virginia State Plane, South Zone, NAD 83 – Derived from field ties to Fort Eustis NAD27 Control Monuments TA-4, TCD-2, and TCD-4. NAD27 values translated to NAD83 by using CORPSCON program.
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20' 10' 0 20' 40' 60'

SCALE 1"= 20'

PHOTOGRAPH REFERENCE SHEET – BOTTOM

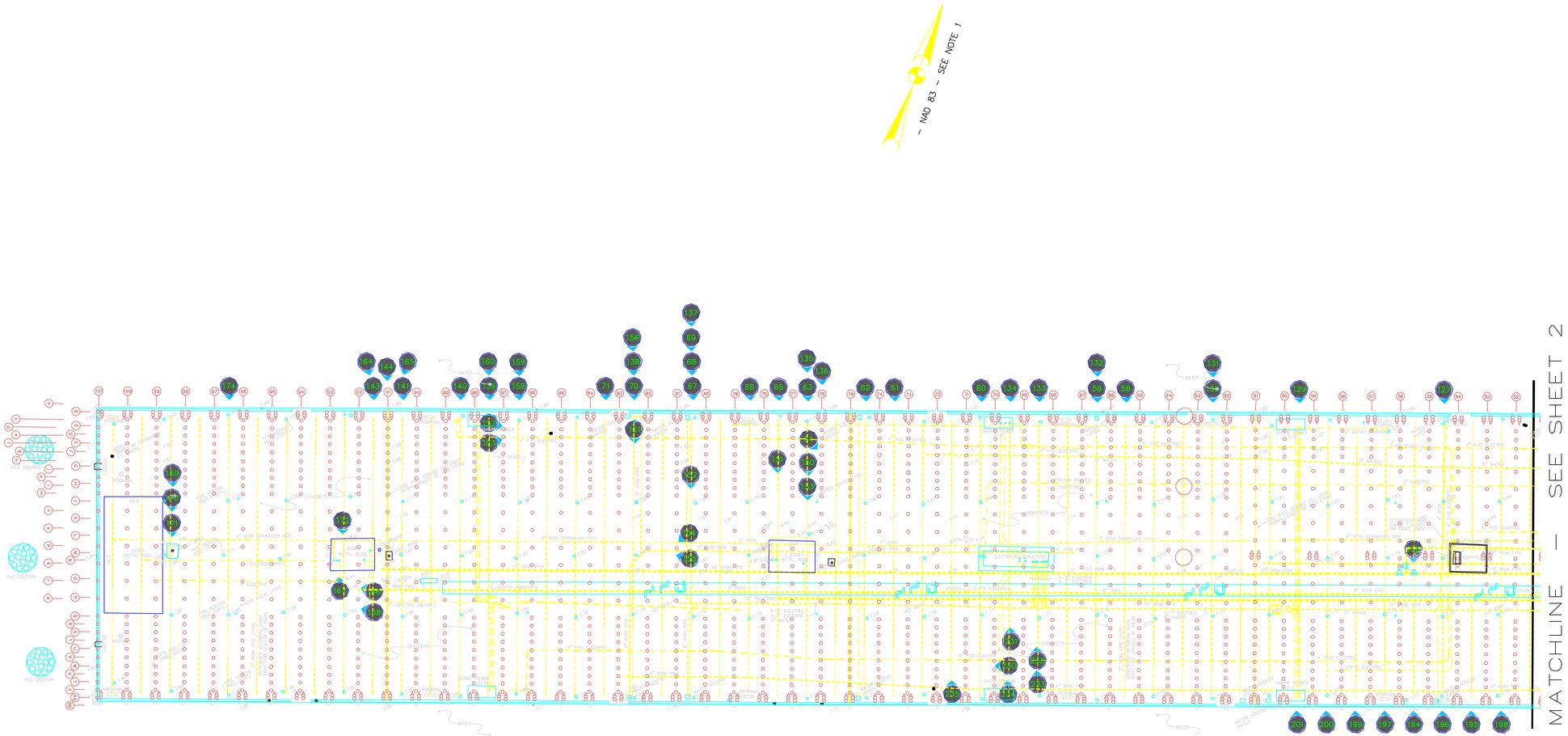
THE TAF GROUP
ARCHITECTURE•ENGINEERING•CONSTRUCTION•SERVICES
100 LANDMARK SQUARE • VIRGINIA BEACH, VA 23452
PHONE: (757) 340-5055 • FAX: (757) 422-3790

UPGRADE MAIN PIER
Project N° 21177
Fort Eustis, Virginia
Contract N° DACA65-98-D-0043 CALL N° 0011
FOR
United States Army Corps of Engineers
Norfolk District, Virginia

Xref S:\Acad–

DRAWN:	TJR
CHECKED:	HRF
SCALE:	1"=20'
DATE:	07/18/00
F.B.#:	PG:
FILE NO.:	
PROJECT NO.:	000834
REVISED: 04/06/01 PER USACE COMMENTS	

SHEET NO.
P-3
OF 15 SHEETS



NOTES:

1. Horizontal Datum: Virginia State Plane, South Zone, NAD 83 – Derived from field ties to Fort Eustis NAD27 Control Monuments TA–4, TCD–2, and TCD–4. NAD27 values translated to NAD83 by using CORPSCON program.
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20' 10' 0 20' 40' 60'

SCALE 1"= 20'

PHOTOGRAPH REFERENCE SHEET – BOTTOM

THE TAF GROUP
ARCHITECTURE•ENGINEERING•CONSTRUCTION•SERVICES
100 LANDMARK SQUARE • VIRGINIA BEACH, VA 23452
PHONE: (757) 340-5055 • FAX: (757) 422-3790

UPGRADE MAIN PIER
Project N° 21177
Fort Eustis, Virginia
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United States Army Corps of Engineers
Norfolk District, Virginia

Xref S:\Acad–

DRAWN:	TJR
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DATE:	07/18/00
F.B.#:	PG:
FILE NO.:	
PROJECT NO.:	000834

REVISED: 04/06/01 PER USACE COMMENTS

SHEET NO.
P–4
OF 15 SHEETS

- 1) 1stelecbldg.jpg

- 2) 1stfirebldg.jpg

- 3) 2ndbldg.jpg

- 4) 3rdbldg.jpg

- 5) bldg-endpier.jpg

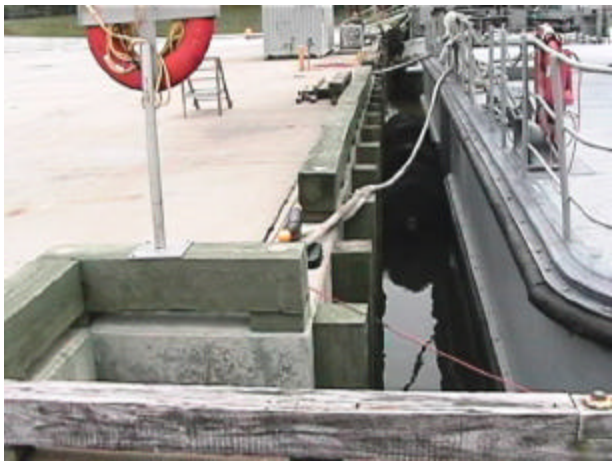
- 6) elecpanel-midpier.jpg

- 7) 1stfirebldg-2.jpg

- 8) 2ndlight.jpg

- 9) boxdownmiddle.jpg

- 10) bulkheadNside.jpg



- 11) bulkheadSside.jpg

- 12) downNside.jpg

- 13) dolphin-n.jpg

- 14) dolphin-cen.jpg

- 15) dolphin-s.jpg

- 16) downpier.jpg

- 17) downpier-s-halfway.jpg

- 18) elec-hookup-typ.jpg

- 19) elechookup-2.jpg

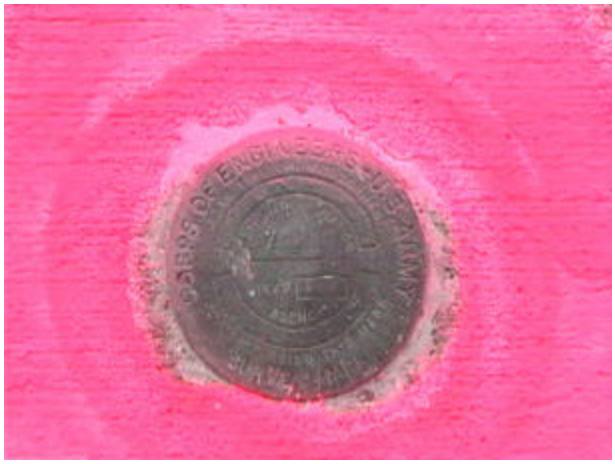
- 20) end-midbox.jpg

- 21) end-n-to-s.jpg

- 22) end-s-to-n.jpg

- 23) endtracks-s.jpg

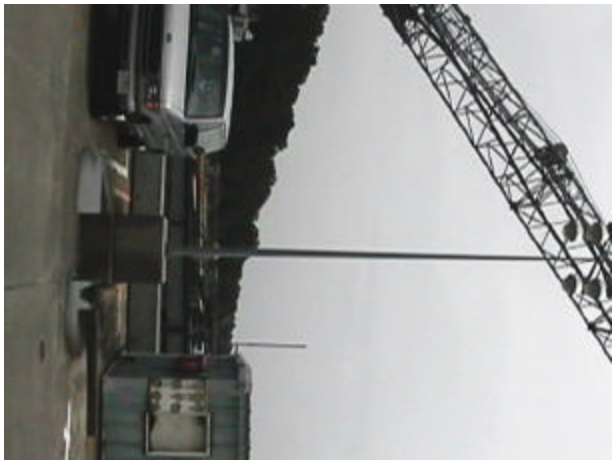
- 24) frontofbox.jpg



- 25) bm-zoomed.jpg

- 26) light-3.jpg

- 27) hookupsonbox.jpg

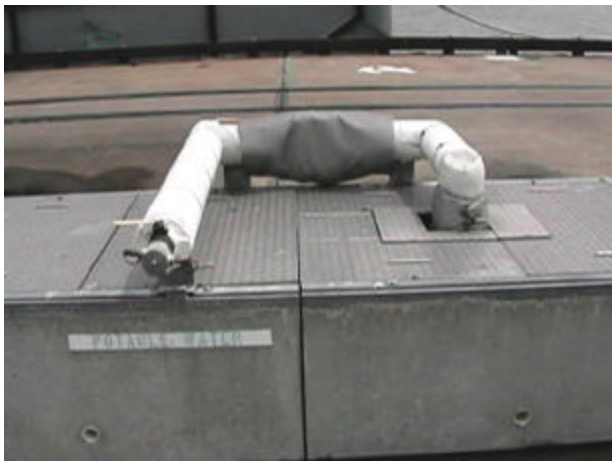


- 28) firstlightpole.jpg

- 29) expansionjoint-typ.jpg

- 30) metalboxlid-tbx.jpg

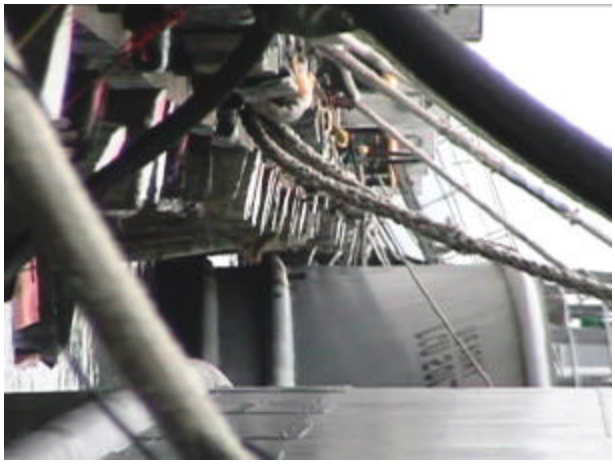
- 31) gpsdisk-s.jpg



- 32) potwaterhookup.jpg

- 33) sewagehookup.jpg

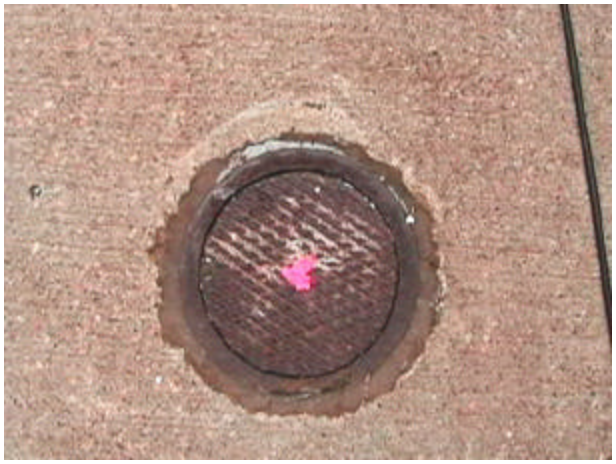
- 34) midboxtyp.jpg



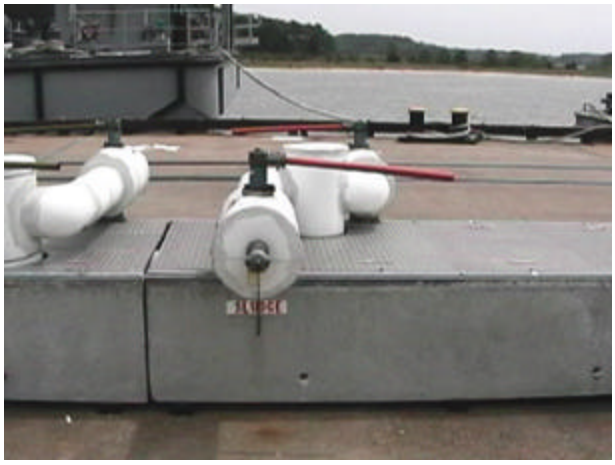
- 35) pilesdownNside.jpg

- 36) mooringSside.jpg

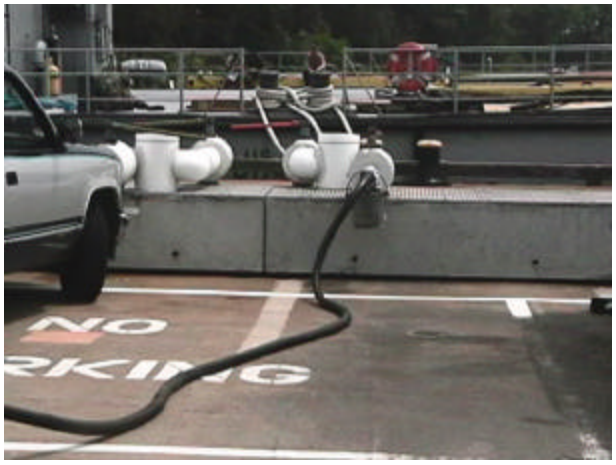
- 37) boxlid.jpg



- 38) typhandhole.jpg

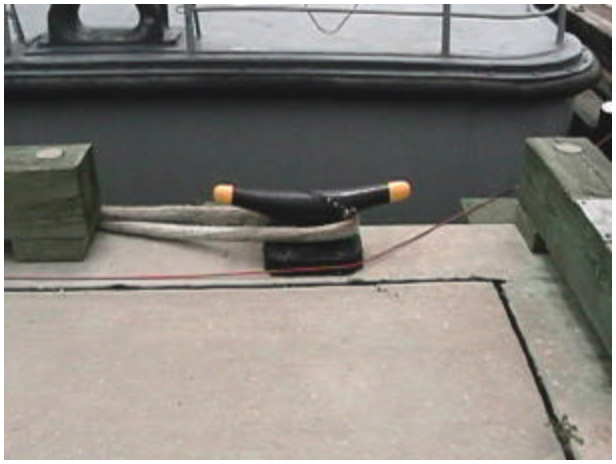


- 39) sludgehookup.jpg



- 40) sludge-in-use.jpg

- 41) tracksdownSside.jpg



- 42) cleat.jpg

- 43) 30-31-n-pipe2.jpg

- 44) 30-firewall.jpg

- 45) 30-31-N-pipes.jpg

- 46) 30-31-n-pipehanging.jpg

- 47) 30-31-N-pipe3.jpg

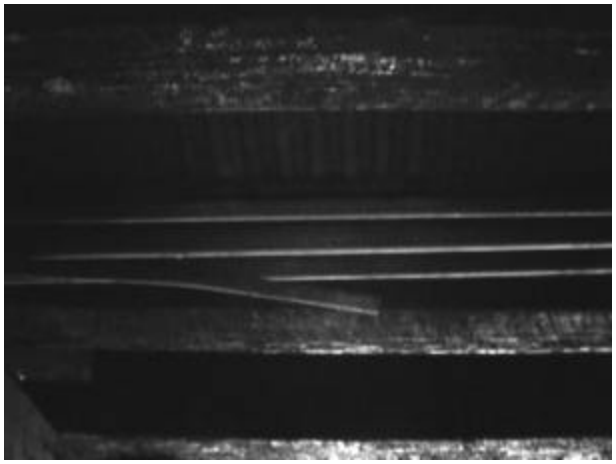
- 48) 31-32-brokepipe.jpg

- 49) 32-33-N.jpg

- 50) 32-33-N-toend.jpg

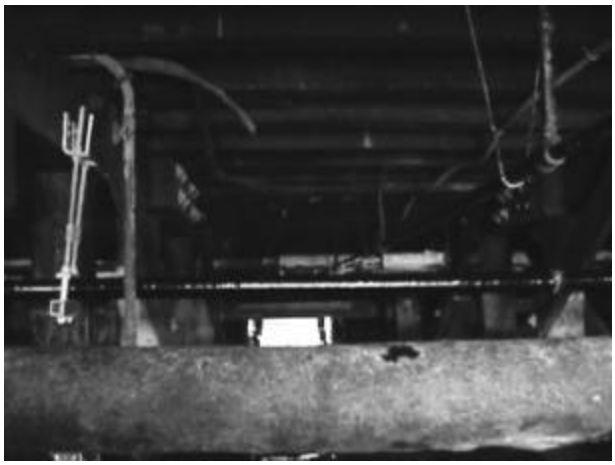
- 51) 32-33-N-pipes.jpg

- 52) 32-33-N-box.jpg



- 53) 32-33-N-abnd-elec.jpg

- 54) 32-33-pipes-insul.jpg



- 55) 34-35-N.jpg

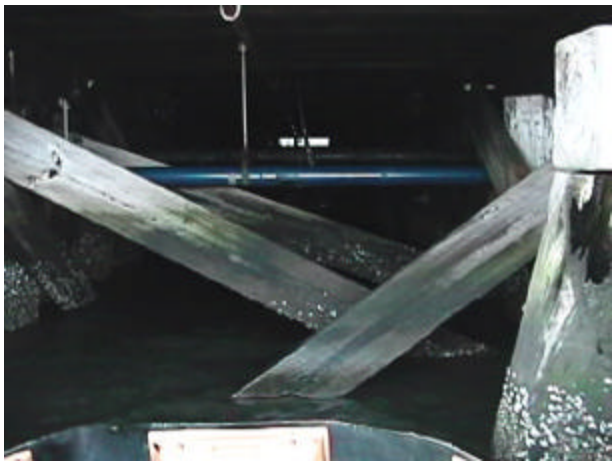
- 56) 34-35-N-elec-condu.jpg

- 57) 34-35-N-pipes.jpg

- 58) 65-66-N.jpg

- 59) 66-67-N.jpg

- 60) 70-71-N.jpg



- 61) 73-74-N.jpg

- 62) 74-75-N.jpg

- 63) 76-77-N.jpg

- 64) 76-77-N-firewall.jpg

- 65) 77-78-N.jpg

- 66) 78-79-N.jpg

- 67) 80-81-N.jpg

- 68) 80-81-N-2.jpg

- 69) 80-81-N-3.jpg

- 70) 82-83-N.jpg

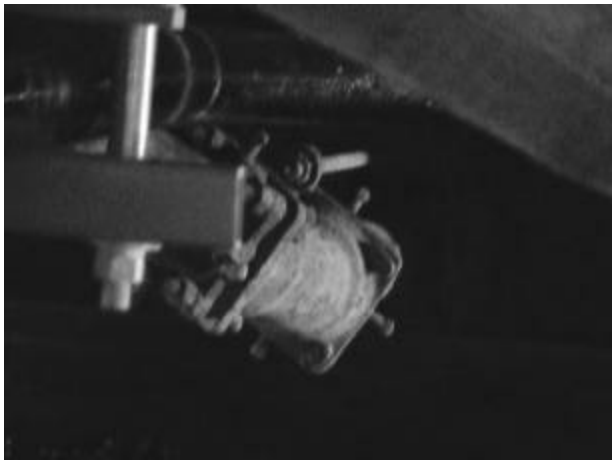
- 71) 83-84-N.jpg

- 72) WS-holeNend.jpg

- 73) 1-2-3in-elecBH.jpg

- 74) 1-2-8in-iron.jpg

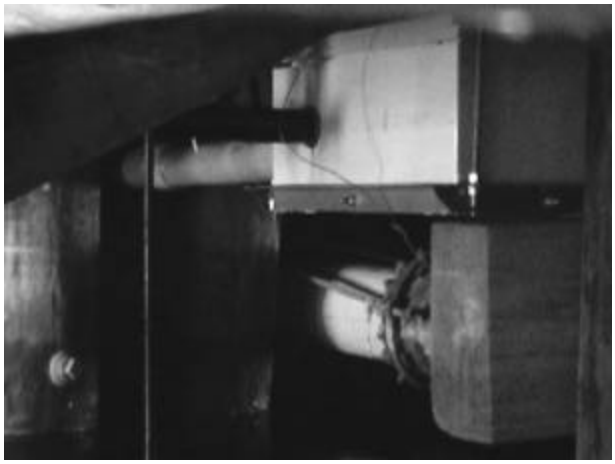
- 75) 1-2-5in-BHtoV.jpg



- 76) 1-2-3Pipe-Blkd.jpg

- 77) 1-2-3Pipe.jpg

- 78) 1-2BlkdBend.jpg



- 79) 1-2BlkdElec.jpg

- 80) 1-2ConcPipe.jpg

- 81) 1-2-elec.jpg

- 82) 1-2N.jpg

- 83) 1-2NElec.jpg

- 84) 1-2Pipes.jpg

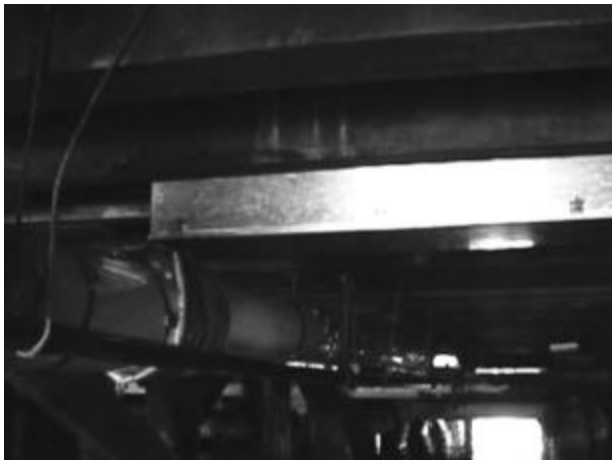
- 85) 1-2S.jpg

- 86) 1-2SanCont.jpg

- 87) 1-2SElec.jpg

- 88) 2-3BH.jpg

- 89) 2-3Blkd-40ft.jpg

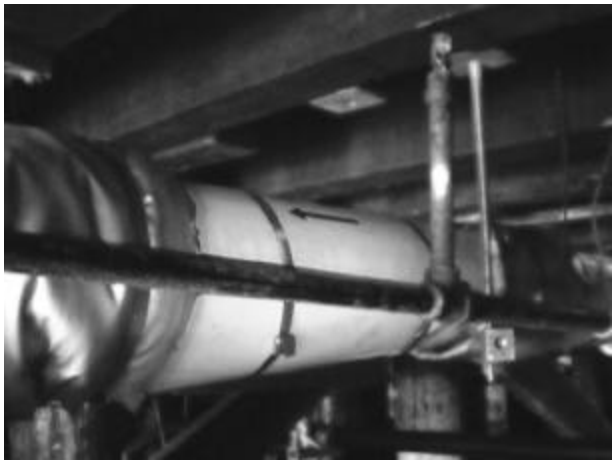


- 90) 2-3NElecBox.jpg

- 91) 2-3NPipes.jpg

- 92) 2-3NSan-Blkd.jpg

- 93) 2-3NSanPipe.jpg



- 94) 2-3NSanPipe2.jpg

- 95) 2-3Pipes.jpg

- 96) 2-3pipes-2.jpg

- 97) 2-3S.jpg

- 98) 2-3S-2.jpg

- 99) 2-3S-3.jpg

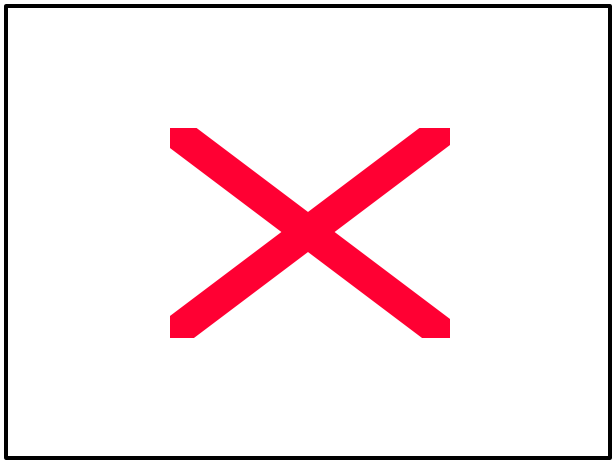
- 100) 2-3SanStruct.jpg

- 101) 2-3Valve.jpg

- 102) 2-3-W40ft.jpg

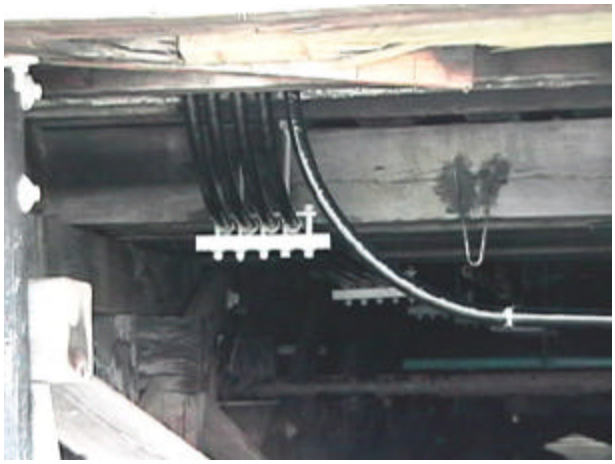
- 103) 15-16Firewall.jpg

- 104) 16-17N.jpg



- 105) 22-23N.jpg

- 106) 27-28elec.jpg



- 107) 27-28Elec-SP.jpg

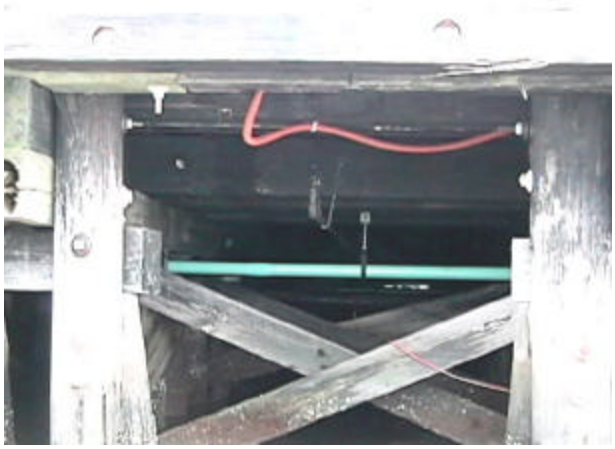
- 108) 3-4NBrknPipe.jpg

- 109) 27-28N.jpg

- 110) 27-28W.jpg

- 111) 27-28W-2.jpg

- 112) 32-33box.jpg



- 113) 33-34N.jpg

- 114) 43-44N.jpg

- 115) 45-46FW.jpg

- 116) 46-47FW.jpg

- 117) 47-48-8in-pipe-up.jpg

- 118) 47-48Tee.jpg

- 119) 48-49-8inW-up.jpg

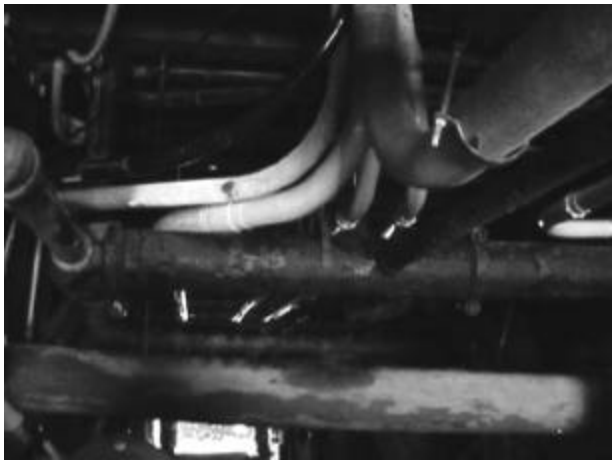
- 120) 48-49E-FW.jpg

- 121) 48-49N.jpg

- 122) 48-49N-2.jpg

- 123) 48-49pipes.jpg

- 124) 48-49pipes-2.jpg



- 125) 48-49pipes-up.jpg

- 126) 50-51N.jpg

- 127) 54-55V.jpg

- 128) 55-56-half.jpg

- 129) 59-60N.jpg

- 130) 62-63FW.jpg

- 131) 62-63FW-2.jpg

- 132) 66-67BV.jpg

- 133) 68-69box.jpg

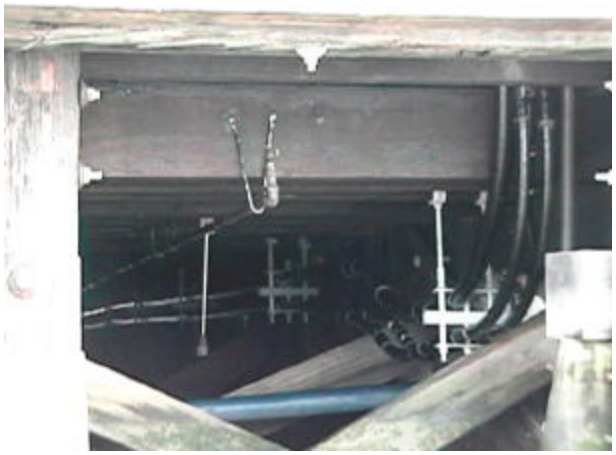
- 134) 69-70N.jpg

- 135) 76-77FW.jpg

- 136) 76FW.jpg

- 137) 80-81N.jpg

- 138) 82-83N.jpg



- 139) 87-88N.jpg

- 140) 88-89N.jpg

- 141) 90-91FW.jpg

- 142) 9-10NElec-SP.jpg

- 143) 91-92FW.jpg

- 144) 91FW.jpg

- 145) ElecCndt-Blkd.jpg

- 146) ShorePower.jpg

- 147) Tower-2.jpg

- 148) Tower-1.jpg

- 149) Tower-3.jpg

- 150) 76-77-1.jpg

- 151) 77-78-1.jpg

- 152) 80-81-w.jpg

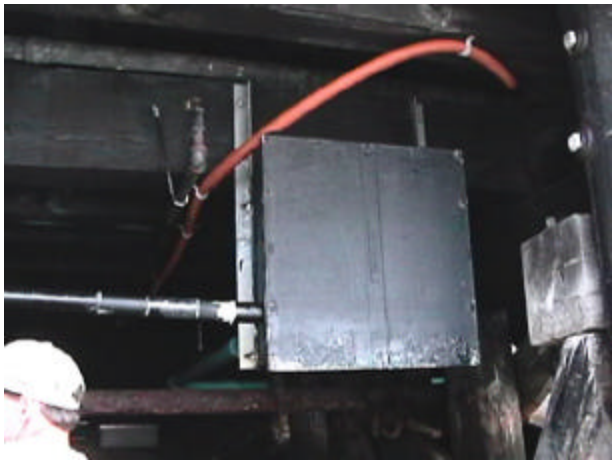
- 153) 76PIPE77.jpg

- 154) 80-81-5in-w.jpg

- 155) 80-81-5in-w-2.jpg

- 156) 83-82wat.jpg

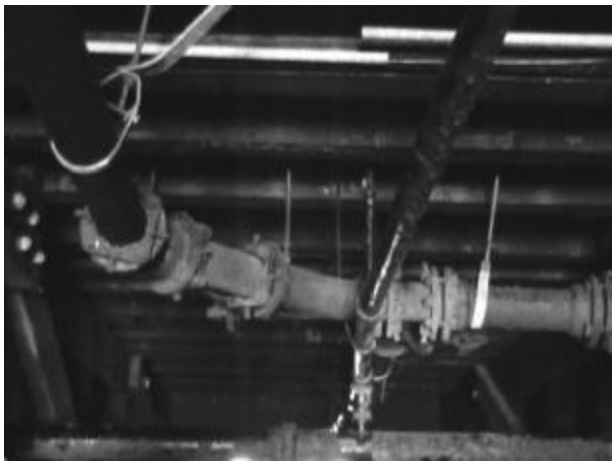
- 157) 87-88elec.jpg



- 158) 86-87-elec.jpg

- 159) 86-87-elec2.jpg

- 160) 87-88.jpg



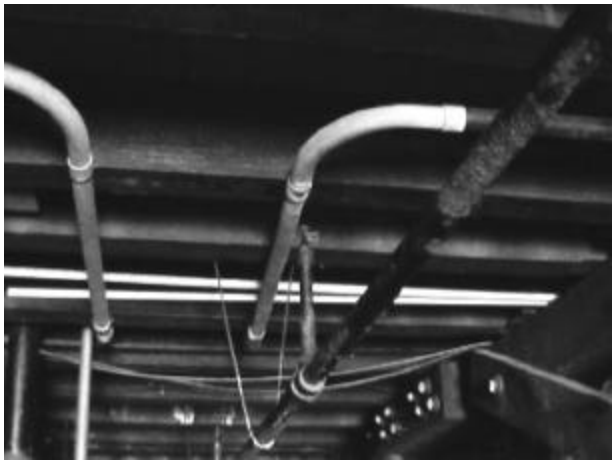
- 161) 82-83-5inw.jpg

- 163) 87-88-elec2.jpg

- 164) 91-92-elec.jpg

- 165) 90-91-s-fw.jpg

- 166) 91-92-8in-iron-up.jpg



- 167) 92-93-elec.jpg

- 168) 91-92-8in-iron.jpg

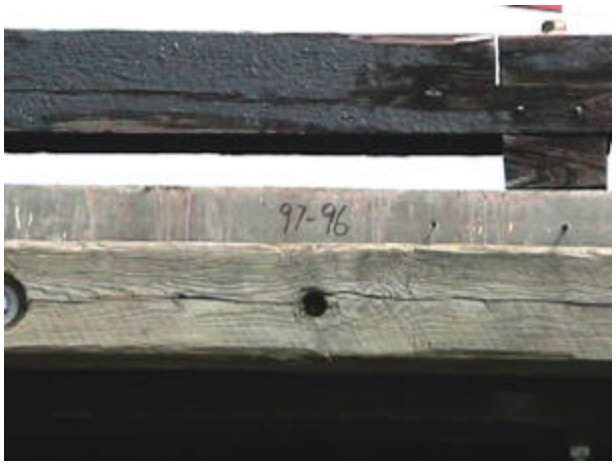
- 169) 98-99-pile-mid.jpg

- 170) 98-99-elec.jpg

- 171) 98-99-pile-mid-2.jpg

- 172) 92-93-wt-up.jpg

- 173) 32-33-s.jpg



- 174) 96-97.jpg

- 175) 33-34-s.jpg

- 176) 37-38-s.jpg

- 177) 35-36-s.jpg

- 178) 36-37-s.jpg

- 179) 38-39-s.jpg

- 180) 34-35-s.jpg

- 181) 43-44-s.jpg

- 182) 39-40-s.jpg

- 183) 42-43-s.jpg

- 184) 41-42-s.jpg

- 185) 44-45-s.jpg

- 186) 40-41-s.jpg

- 187) 45-46-s.jpg

- 188) 49-50-s.jpg

- 189) 48-49-s.jpg

- 190) 47-48-s.jpg

- 191) 50-51-s.jpg

- 192) 46-47-s.jpg

- 193) 51-52-s.jpg

- 194) 55-56-s.jpg

- 195) 53-54-s.jpg

- 196) 54-55-s.jpg

- 197) 56-57-s.jpg

- 198) 52-53-s.jpg

- 199) 57-58-s.jpg

- 200) 58-59-s.jpg

- 201) 59-60-s.jpg

- 202) 3-4-s.jpg

- 203) 5-6-s.jpg

- 204) 4-5-s.jpg

- 205) 6-7-s.jpg

- 206) 7-8-s.jpg

- 207) 8-9-s.jpg

- 208) 8-9-s-2.jpg

- 209) 9-10-s.jpg

- 210) 10-11-s.jpg

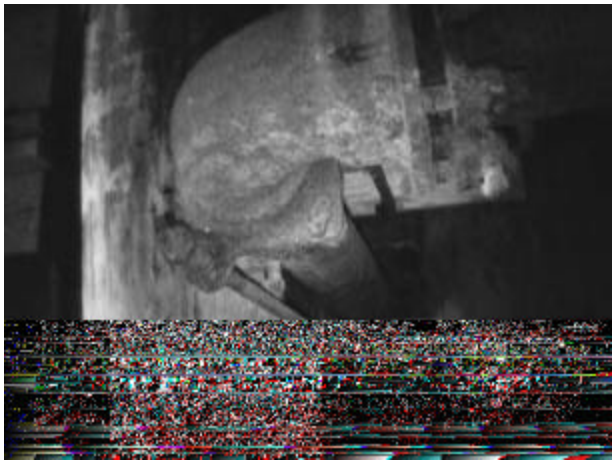
- 211) 11-12-s.jpg

- 212) 12-13-s.jpg

- 213) 13-14-s.jpg

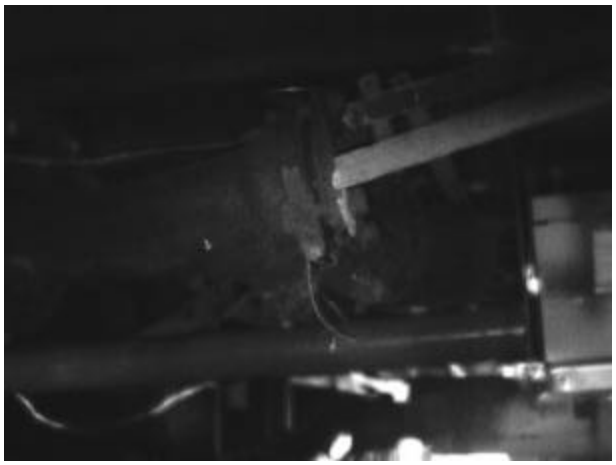
- 214) 1-2-3in-elec.jpg

- 215) 1-2-5in-iron.jpg



- 216) 1-2-5in-bh.jpg

- 217) 1-2-5in-90.jpg



- 218) 1-2-5in-s.jpg

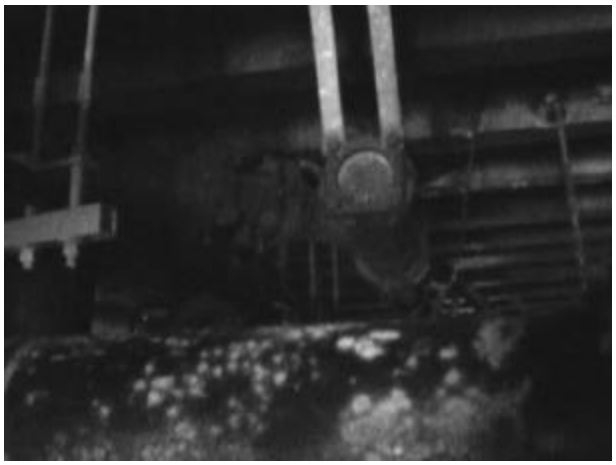
- 219) 1-2-10in-brk.jpg

- 220) 1-2-pvc-90s.jpg

- 221) 1-2-10in-90.jpg

- 222) 1-2-10in-90w.jpg

- 223) 1-2-3-5in-vlv.jpg



- 224) 1-2-90w.jpg

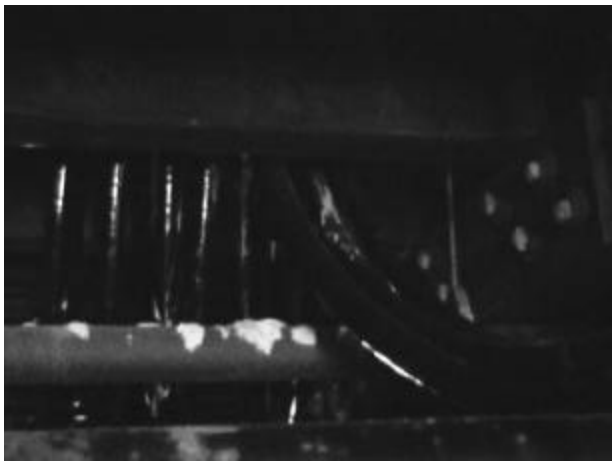
- 225) 1-2-5in-up.jpg

- 226) 1-2-5in-up2.jpg

- 227) 1-2-5in-up3.jpg

- 228) 1-2-3-5in-vlv2.jpg

- 229) 2-3-5in-iron.jpg



- 230) 69-s-w.jpg

- 231) 69-s-w-2.jpg

- 232) 68-elec.jpg

- 233) 68s-elec.jpg

- 234) 69-shp-shr.jpg

- 235) 71s-elec.jpg

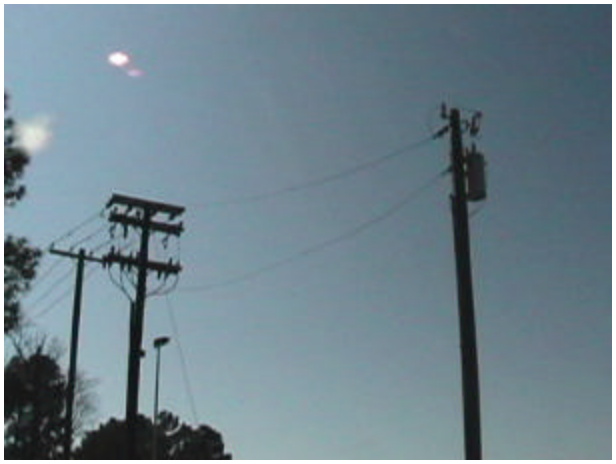
- 236) bldg438-1.jpg

- 237) bldg438-2.jpg

- 238) bldg438-3.jpg

- 239) bldg438-4.jpg

- 240) bldg438-5.jpg



- 241) bldg438-6.jpg

- 242) bldg438-7.jpg

- 243) bldg438-8.jpg

- 244) bldg438-9.jpg

- 245) bldg438-10.jpg

- 246) bldg438-11.jpg

- 247) bldg438-12.jpg

- 248) bldg438-13.jpg

- 249) bldg438-14.jpg

- 250) bldg438-15.jpg

- 251) bldg438-16.jpg

- 252) bldg438-17.jpg

- 253) bldg438-18.jpg