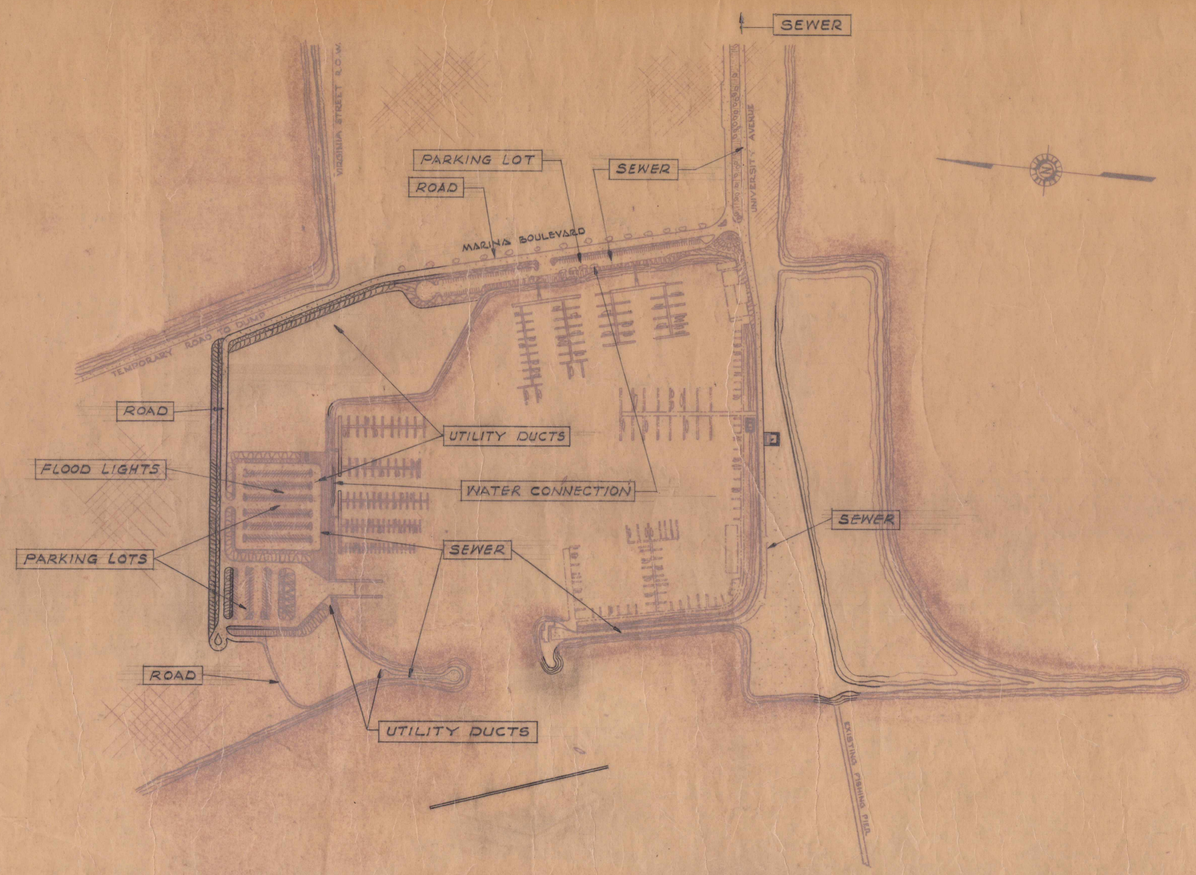
BERKELEY MARINA

PAVING AND UTILITIES



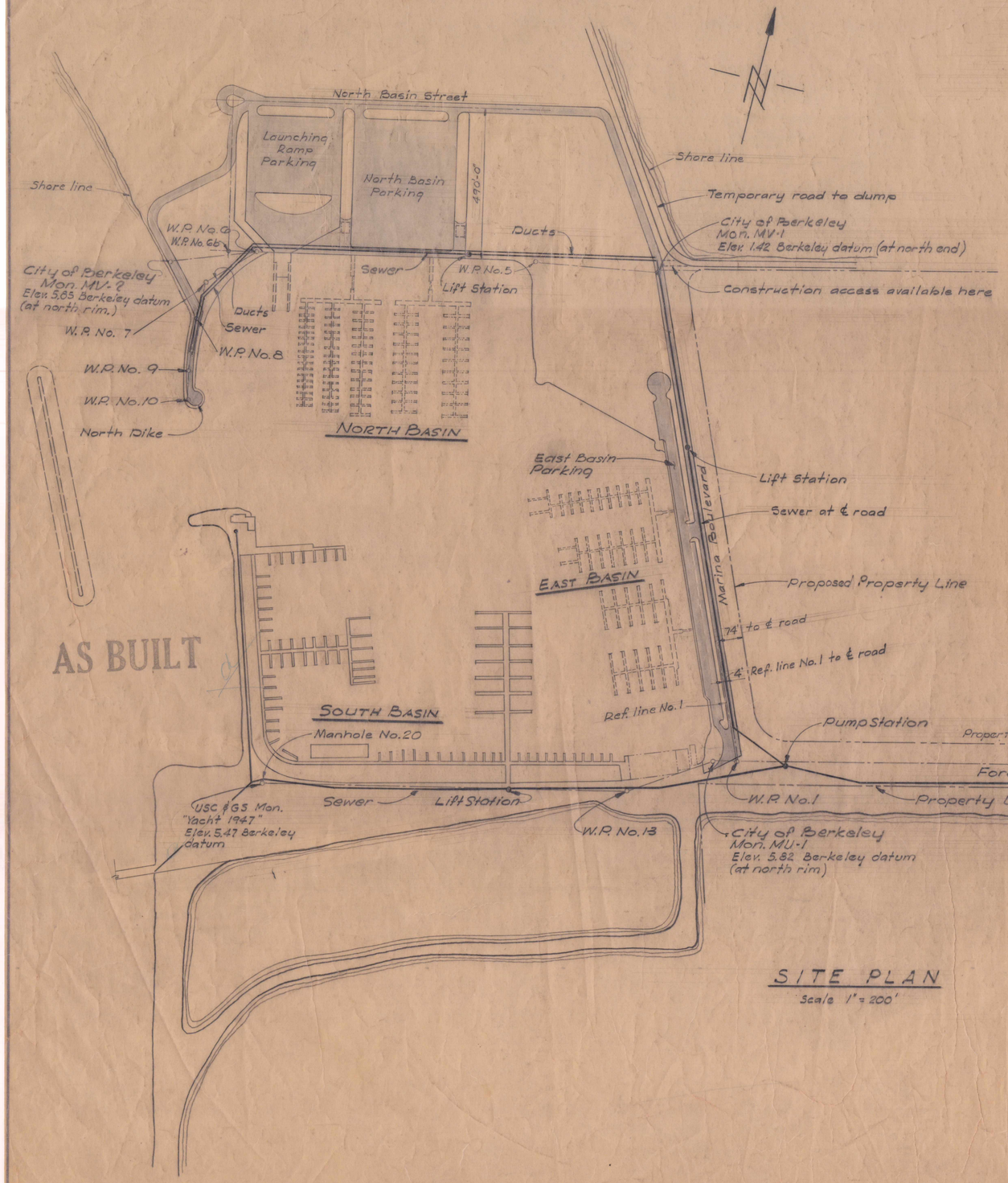
DEVELOPMENT PLAN — PHASE ONE

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

AS BUILT 6-15-66
BY BLUME & ASSOC.

405-12



AS BUILT

SITE PLAN

Scale 1" = 200'

GENERAL NOTES

1. All elevations refer to City of Berkeley datum. 0.00 Berkeley = 6.23 MLLW
2. All horizontal and vertical control is based on City of Berkeley Monuments MU-1, MV-1 and MV-2 and USC&GS monument "Yacht".
3. Contours are based on surveys by John A. Blume & Assoc. and are for information only.

These plans consisting of sheets 1 to 22 and M-5 are approved by the undersigned as meeting local codes and departmental requirements

George C. Berry
Building Inspection Superintendent

D. D. O'Leary
Electrical Superintendent

A. P. Worley
Harbormaster

Gene Aaslwaechter
Director of Parks & Recreation

INDEX TO DRAWINGS

Sheet No.	Title
1	SITE PLAN
2	EAST BASIN PAVING
3	LEASE AREA PAVING
4	NORTH BASIN PAVING
5	NORTH DIKE PAVING
6	PAVING DETAILS
7	PAVING DETAILS
8	UNIVERSITY AVE. SEWER
9	UNIVERSITY AVE. SEWER
10	EAST BASIN UTILITIES
11	LEASE AREA UTILITIES
12	NORTH BASIN UTILITIES
13	NORTH DIKE UTILITIES
14	SOUTH BASIN UTILITIES
15	SOUTH BASIN SEWER
16 (Not In Same Contract)	YACHT CLUB & FISHING PIER SANITARY SEWER & HELIPORT
17	UTILITY DETAILS
18	SEWER LIFT STATION
19	SEWER PUMPING PLANT
20	IRRIGATION PIPING
21	UTILITY DUCTS
M-5	SINGLE LINE DIAGRAMS - ELECTRICAL
22	SOIL INFORMATION
71 PLAN 4014	SOIL INFORMATION

LEGEND

Property line	
Work by others	
Reference line	
Work point	W.P. No.
Finished elevation	10.50
T.P. Asphalt Conc.	A.C. Aggregate Base A.B
Top of paving	T.P.
Top of curb	T.C.
Catch basin	C.B.
Existing contours	10
Finished contours	10
Asphalt concrete paving	
Seal Coat paving	

For Mechanical & Electrical Symbols see Sheet 17

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
	6/15/66	RVB	AS BUILT PLANS

DESIGNED: RVB TRACED:
DRAWN: EDS CHECKED: RVB

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES

SITE PLAN


RECOMMENDED BY: DATE 7/21/65
Wm J. Dabel No. 9078
ASST. CITY MANAGER REG. CIVIL ENGR.

APPROVED BY: DATE 7/22/65
J. E. Mack No. 9331
DIRECTOR OF PUBLIC WORKS REG. CIVIL ENGR.

APPROVED BY BERKELEY CITY COUNCIL:
CITY CLERK DATE

SCALES: HORIZ. 1"=200' VERT. DATE

PLAN NO. 4016
BOOK FILE 405-12
PAGE SHEET 1 OF



JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
1	10/11/65	RVB	Rev. Entrance
2	11/18/65	RVB	Extend sidewalk
3	6/15/66	R.V.B.	AS BUILT PLANS

DESIGNED: RVB — TRACED
DRAWN: EDS — CHECKED: RVB

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
EAST BASIN PAVING

RECOMMENDED BY: Wm J. Dabel, ASST. CITY ENGINEER — DATE 7/21/65 — NO. 9078 REG. CIVIL ENGR
APPROVED BY: [signature], DIRECTOR OF PUBLIC WORKS — DATE 7-21-65 — NO. 9334 REG. CIVIL ENGR
PLAN NO. 4016
APPROVED BY BERKELEY CITY COUNCIL — CITY CLERK — DATE
SCALES HORIZ. VERT. — DATE — BOOK — PAGE
FILE 405-12
SHEET 2 OF

Virginia St.

Existing shoreline

Temporary road to dump (N.I.C.)

Property line

DETAIL 1-6

P.T. Sta. 21+93.30

P.T. Sta. 21+93.

N 30° 12' 58" W

24' shoulder

30' Mound

E.C. Sta. 16+50.00

MV-1

N 19° 24' 47" W

To Mon. MV-1

Sta. 16+34.19

P.T. Sta. 15+50.28'

R = 1,110.12'
Δ = 10° 19' 24"
T = 100.281

B.C. Sta. 14+50.00

N 21° 53' 29" W

& MARINA BOULEVARD

4' shoulder

Sta. 10+50 MATCH LINE
For continuation, see Sht. 2

Typ. stripes (N.I.C.)

6x8 Wood bumper
Conc. curb

Slope 1%

12" ϕ C.M.P. Drain pipe

Sta. 10+97

5.16 Rim C.B.
1.83 Inv.

5.16 Rim C.B.
1.18 Inv.

5.25 Rim C.B.
2.75 Inv.

R = 60'

50'

55'-0"

Sta. 23+77.6
B 200' V.C.

Slope 4%

Note: Elevations given at 25' intervals

S 78° 28' 12" W

Mound

4' shoulder

Sta. 25+77.6
E 200' V.C.

Sta. 20+00 MATCH LINE
For continuation, see Sheet 4

480'

& NORTH BASIN ST.

S 82° 33' 41" W
427.84'
To Mon. MV-2

S 78° 02' 37"

Sta. 24+15.615

W.P. 5

S 78° 28' 12" W
190 ± to bank

Note: Contours of existing ground subject to change due to recent filling.

PLAN

Scale: 1" = 40'-0"

AS BUILT

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
1	6/14/66	RVB	AS BUILT PLANS

DESIGNED: RVB TRACED:
DRAWN: EDS CHECKED: RVB

RECOMMENDED BY: Wm J. Dabel DATE 7/21/65
ASST. CITY ENGINEER REG. NO. 9078 REG. CIVIL ENGR.

APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

BERKELEY MARINA - PAVING & UTILITIES

EAST BASIN PAVING

APPROVED BY: J. F. Mark DATE 7-21-65
DIRECTOR OF PUBLIC WORKS REG. NO. 9334 REG. CIVIL ENGR.

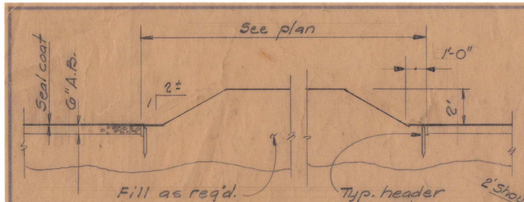
PLAN NO. 4016

SCALED: HORIZ. VERT. DATE BOOK PAGE

FILE 405-12

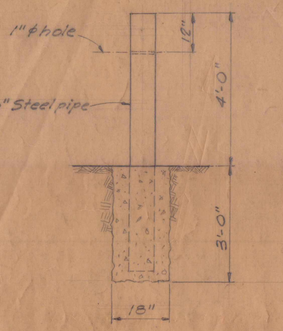
SHEET 3 OF


Virginia St.
Existing shore line
Temporary road to dump (N.I.C.)
Property line
DETAIL 1-6
Ⅎ MARINA BOULEVARD
N 21° 53' 29" W
N 32° 12' 53" W
Sta. 10+50 MATCH LINE
For continuation, see Sht. 2
432.906' N-32°-12'-53"-W
TOTAL 731.938
29.916'
269.116' N-32°-12'-53"-W
101.657' N-78°-28'-12"-E
396.672' N-21°-53'-29"-W
151.498' N-78°-28'-12"-E
UTILITY EASEMENT
556.644' S-78°-28'-12"-W
436.637'
447.209' S-78°-28'-12"-W
403.731' N-78°-28'-12"-E
LEASE BOUNDRY
LEASE BOUNDRY
Top of Bank Elev. 5.77
Top of Bank Elev. 5.77
28.00'
120.007' S-78°-28'-12"
ELEV. 5.77
497.972' S-11°-31'-48"-E
399.390' S-76°-01'-15"-E
405.00' N-11°-31'-48"-W
Sta. 26+00 MATCH LINE
For continuation, see Sheet 4
Ⅎ NORTH BASIN ST
Note: Elevations given at 25' intervals
PLAN
Scale: 1" = 40'-0"
NOTE: ALL ELEVATIONS SHOWN ARE CITY OF BERKELEY DATUM.
ADD 6.23 TO OBTAIN MEAN LOWER LOW WATER DATUM.
AS BUILT
JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO
REVISIONS
MARK DATE BY DESCRIPTION
6/14/66 RWB AS BUILT PLANS
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
EAST BASIN PAVING
MOTEL LEASE SHOWN 9-3-69
RECOMMENDED BY: DATE: 7/21/65
ASST. CITY ENGINEER NO. 9078 REG. CIVIL ENGR.
APPROVED BY: DATE: 7-21-65
DIRECTOR OF PUBLIC WORKS NO. 9334 REG. CIVIL ENGR.
PLAN NO. 4016
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE
FILE 405-12
SHEET 3



SECTION A-4

Scale: 1/4"=1'-0"



DETAIL 1-4

Scale: 1/2"=1'-0"

AS BUILT

PLAN

Scale: 1" = 40'-0"

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
1	6/14/66	R.V.B.	AS BUILT PLANS

DESIGNED: R.V.B. TRACED:
DRAWN: E.P.S. CHECKED: R.V.B.
RECOMMENDED BY: DATE 7/21/65
Wm J. Dalzell NO. 9078
ASST. CITY ENGINEER REG. CIVIL ENGR.
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES

NORTH BASIN PAVING

APPROVED BY DATE 7-21-65 PLAN NO.
J.T. Mart NO. 9334 4016
DIRECTOR OF PUBLIC WORKS REG. CIVIL ENGR.
SCALES BOOK FILE 405-12
HORIZ. VERT. DATE PAGE SHEET 4 OF

SECTION A-4

Scale: 1/4"=1'-0"

DETAIL 1-4

Scale: 1/2"=1'-0"

PLAN

Scale: 1"=40'-0"

LIMIT OF WORK

NEW A.C. PAVING

BOAT STORAGE

REPLACE FENCING AFTER PAVING

20 Spaces @ 11'-6" = 230'-0" Typ striping (N.I.C.)

Typ. header board

18"x11" C.M.P. pipe-arch drain pipe

Typ. @ drain

Typ. @ midpoint bet. drain

Slope 2.87%

Slope 3.92%

Flood Light

Header board typ.

Ramp, see DETAIL 2-6 SHEET 6

Face of header board

Header board

Paving under Restroom Buildings to be done by others, typ.

Brick paving area See Detail SHEET 6

Ref. Line No 2

W.P.5

Concrete sidewalk

Brick paving area See detail SHEET 6

Existing top of slope

Mon. MV-2

Lease

EXTEND RAMP TO DIMENSIONS SHOWN

REMOVE EXISTING FLOAT

2-NEW 160' BOARDING FLOATS

REPLACE 80' FLOAT

Note: Elevations shown at 25' intervals along vertical curves.

MATCH LINE STA. 33+00 For continuation, see SHEET 3

MATCH LINE Sta. 41+00 For continuation, see Sheet 6

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

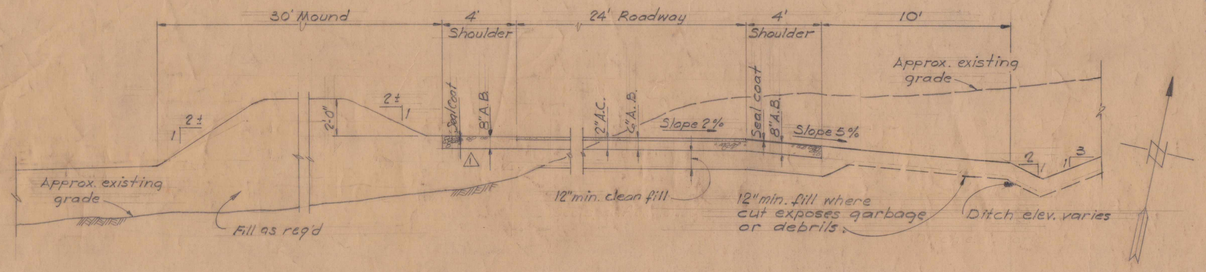
REVISIONS			
MARK	DATE	BY	DESCRIPTION
1	6/14/65	R.V.B.	AS BUILT PLANS

DESIGNED: TRACED:
DRAWN: EBS CHECKED:
RECOMMENDED BY: Asst. City Engineer DATE: 7/21/65 NO. 9078
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
NORTH BASIN PAVING

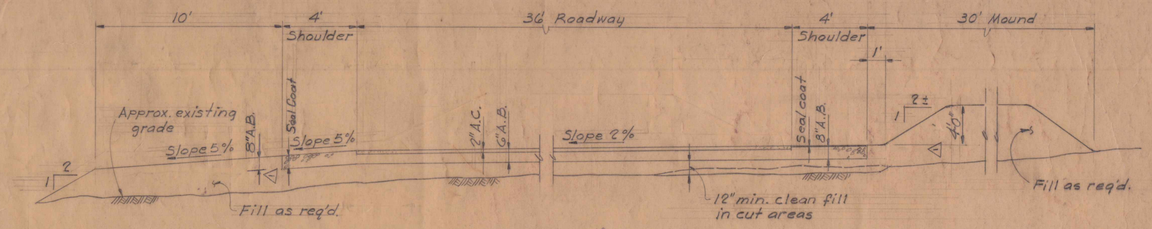
APPROVED BY: Director of Public Works DATE: 7-21-65 NO. 8334 REG. CIVIL ENGR.
PLAN NO. 14016
SCALES: HORIZ. VERT. DATE
BOOK PAGE
FILE 405-12
SHEET 5 OF

AS BUILT



SECTION A-5 (TYPICAL FOR CUT AREAS)

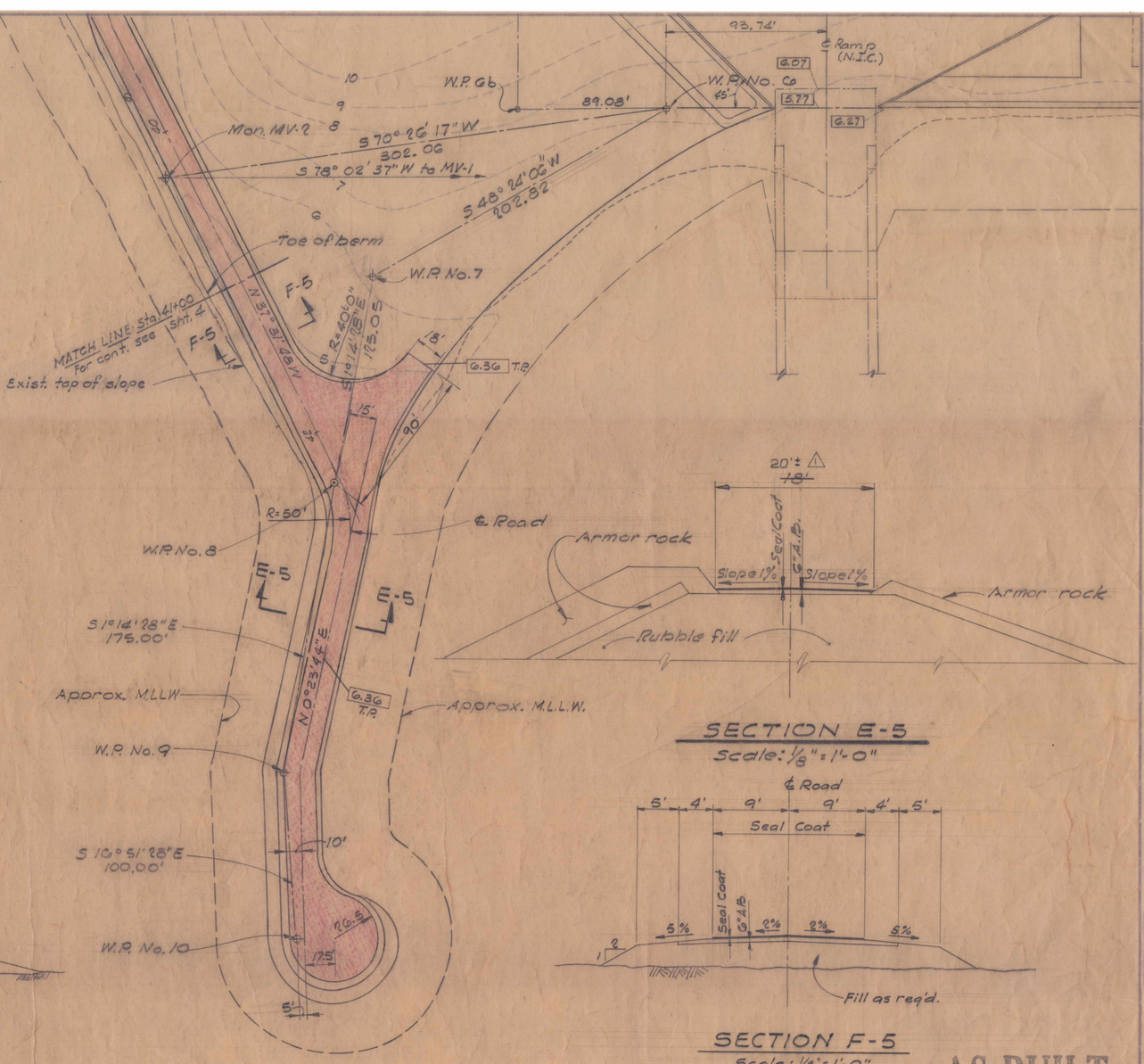
Scale: 1/4" = 1'-0"



SECTION B-5

Scale: 1/4" = 1'-0"

AS BUILT

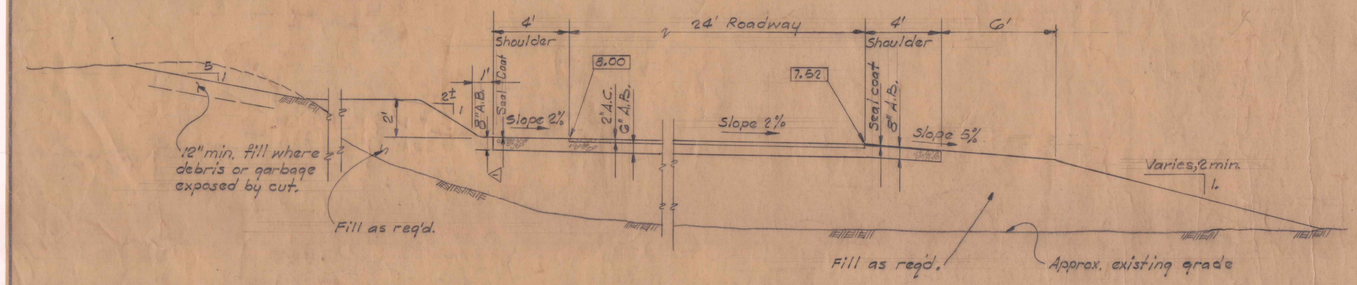


PAVING PLAN

Scale: 1" = 40'-0"

SECTION E-5

Scale: 1/8" = 1'-0"

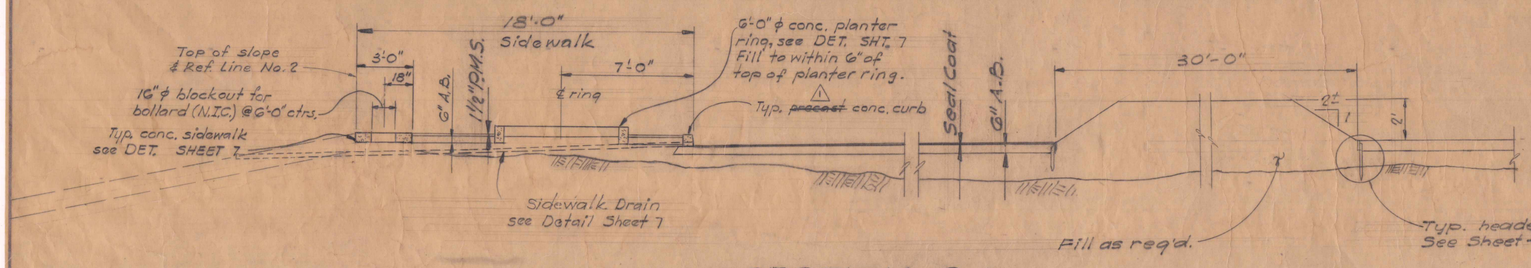


SECTION C-5

Scale: 1/4" = 1'-0"

SECTION F-5

Scale: 1/8" = 1'-0"



SECTION D-5

Scale: 1/4" = 1'-0"

AS BUILT

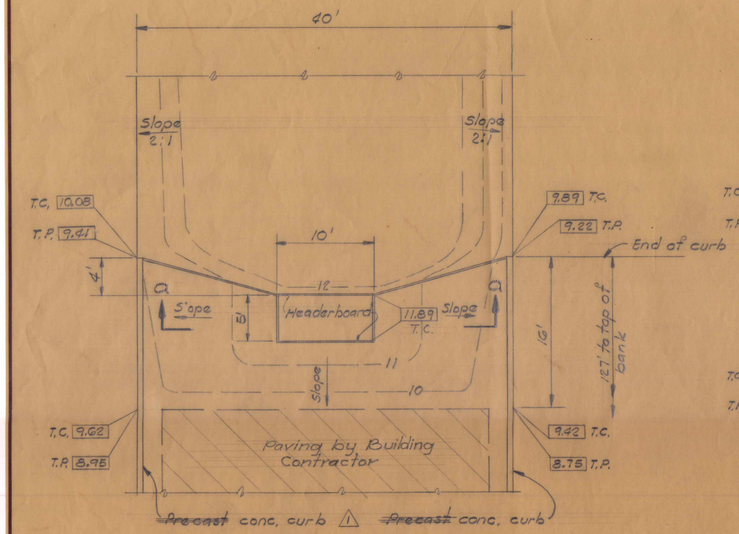
JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
△	6/14/66	R.V.B.	AS BUILT PLANS

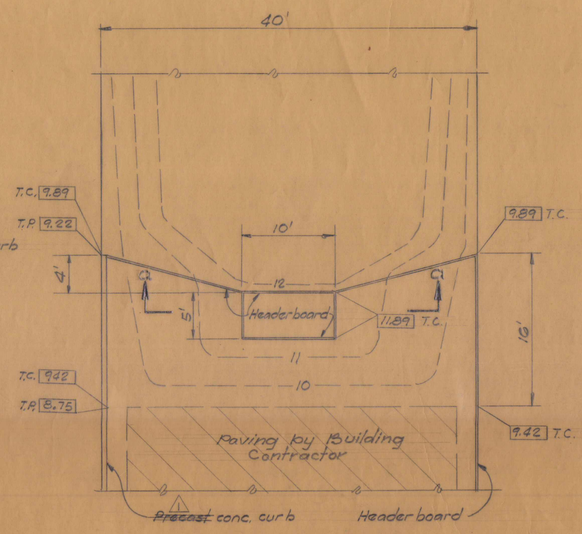
DESIGNED: RVB TRACED:
DRAWN: E.D.S. CHECKED: RVB

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
NORTH DIKE PAVING

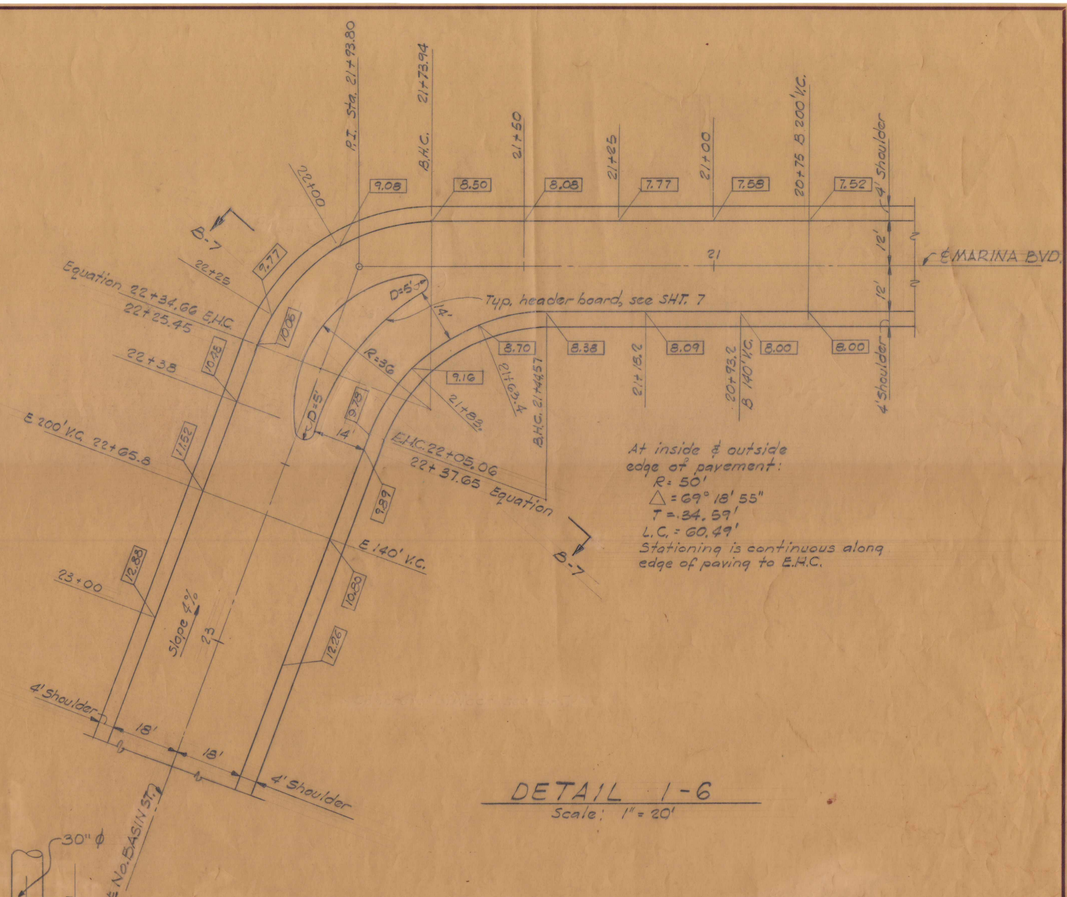
RECOMMENDED BY: Wm J. Dabel, ASST. CITY ENGINEER — DATE 7/21/65 — NO. 9078 — REG. CIVIL ENGR.
APPROVED: J. E. Mark, DIRECTOR OF PUBLIC WORKS — DATE 7-21-65 — NO. 9334 — REG. CIVIL ENGR.
PLAN NO. 401G
APPROVED BY BERKELEY CITY COUNCIL — CITY CLERK — DATE
SCALES: HORIZ. — VERT. — DATE
BOOK — PAGE
FILE. 405-12
SHEET 5 OF



DETAIL 1-6
Scale: 1/8" = 1'-0"



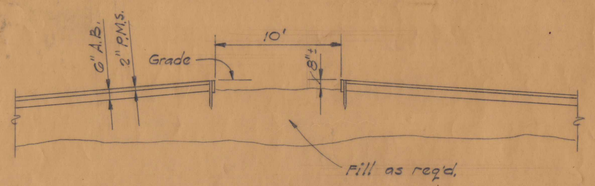
DETAIL 2-6
Scale: 1/8" = 1'-0"



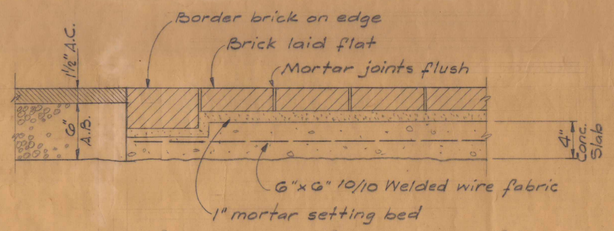
At inside & outside edge of pavement:
R = 50'
Δ = 69° 18' 55"
T = 34.39'
L.C. = 60.49'
Stationing is continuous along edge of paving to E.H.C.

DETAIL 1-6
Scale: 1" = 20'

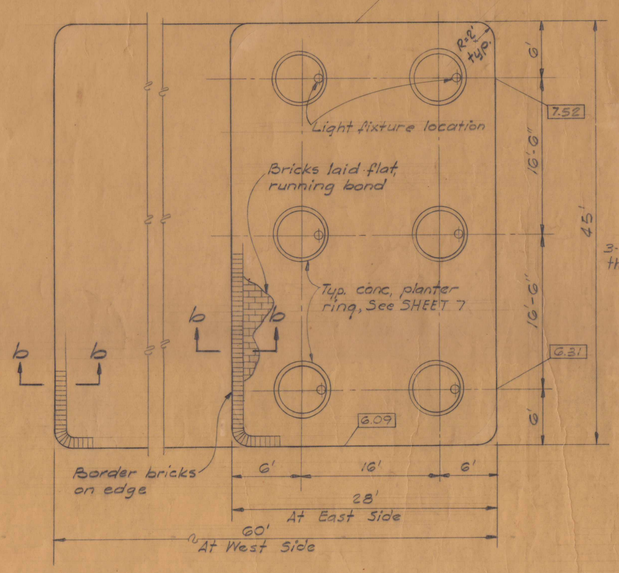
AS BUILT



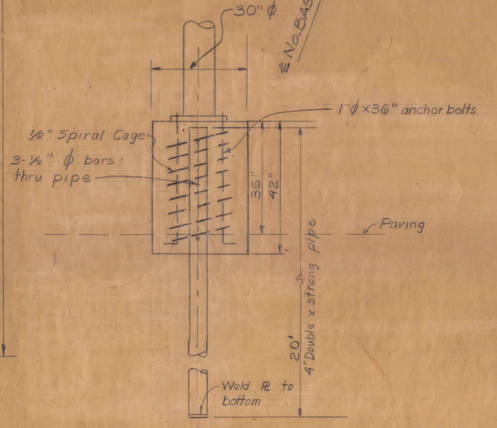
Section a-a
No scale



Section b-b
Scale: 1½" = 1'-0"



BRICK PAVING AREA DETAIL
Scale: 1/8" = 1'-0"



TYP. PARKING LOT LIGHT FOUNDATION ⚠1
Scale: ½" = 1'-0"

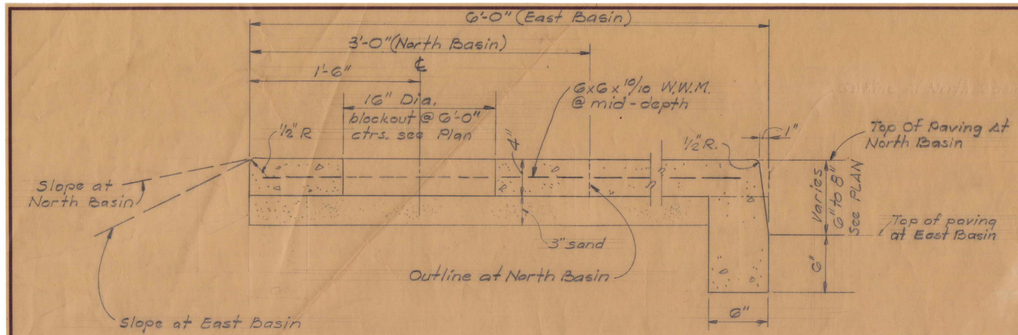
AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
⚠	6/4/46	RVB	AS BUILT PLANS

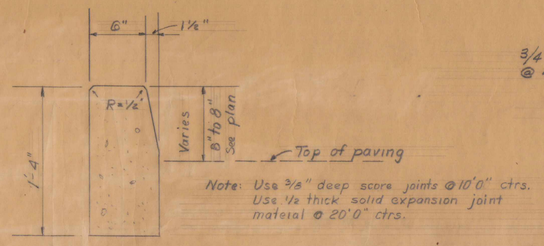
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
PAVING DETAILS

DESIGNED: RVB TRACED:
DRAWN: E.O.S CHECKED: RVB
RECOMMENDED BY: DATE: 9/21/65
W. J. Dabel NO.: 9078
ASST. CITY ENGINEER REG. CIVIL ENGR.
APPROVED BY: DATE: 7-21-65
NO.: 9334
DIRECTOR OF PUBLIC WORKS REG. CIVIL ENGR.
PLAN NO.: 401G
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE
SCALES: HORIZ. VERT.
DATE
BOOK PAGE
FILE: 405-12
SHEET 6 OF



TYP. CONC. SIDEWALK

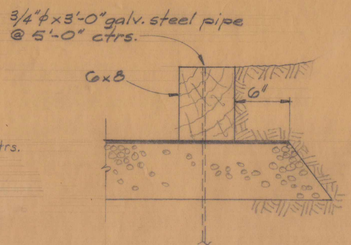
Scale: 1½" = 1'-0"



Note: Use ⅜" deep score joints @ 10'0" ctrs. Use ½ thick solid expansion joint material @ 20'0" ctrs.

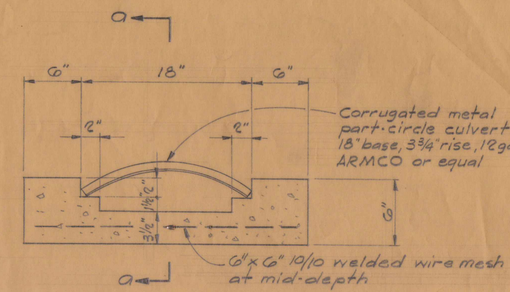
TYP. CONC. CURB ⚠

Scale 1½" = 1'0"



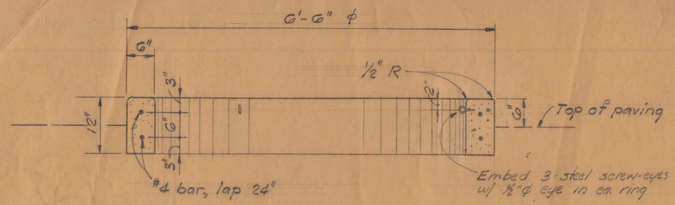
TYP. WOOD PARKING BUMPER

Scale: 1½"=1'-0"



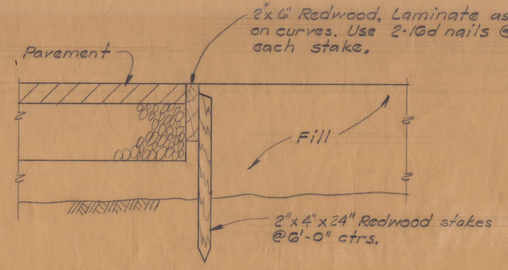
TYP. SIDEWALK DRAIN

Scale: 1½"=1'-0"



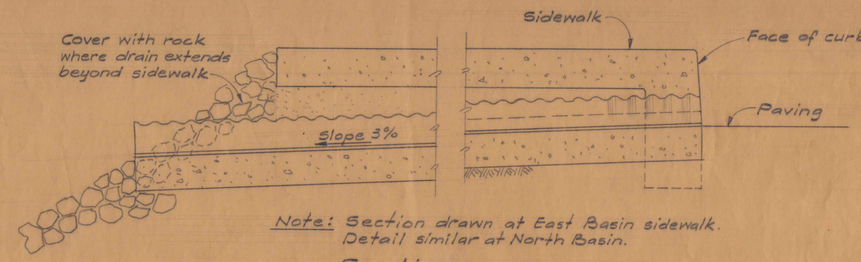
TYP. CONC. PLANTER RING

Scale: ¾" = 1'-0"



TYP. HEADER BOARD

Scale: 1½" = 1'-0"

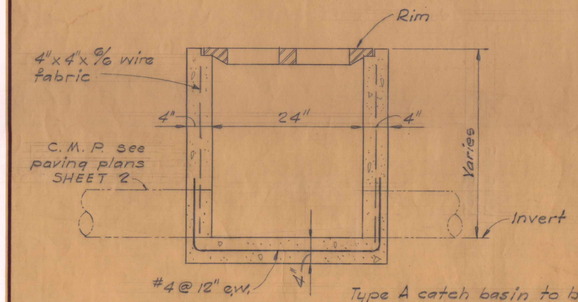


Note: Section drawn at East Basin sidewalk. Detail similar at North Basin.

Section a-a

Scale: 1½"=1'-0"

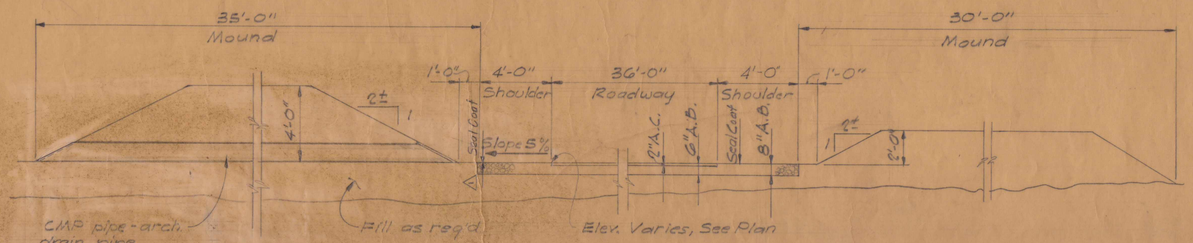
AS BUILT



Type A catch basin to be 24"x24" inside, Forni U21 or equal with heavy duty cast iron grate. Forni No. 71C 422 or equal.

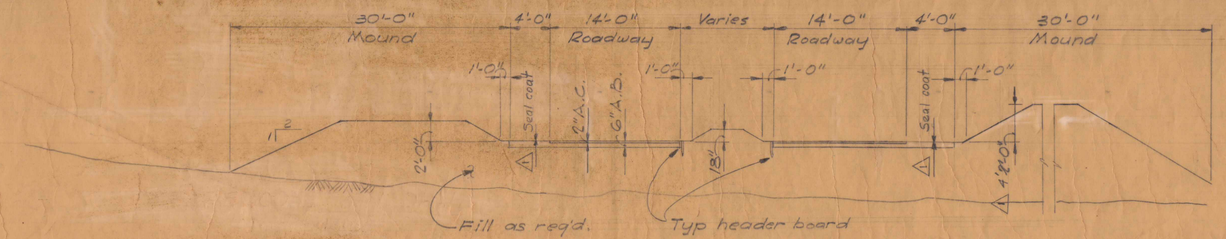
TYPICAL CATCH BASIN

Scale: 1"=1'-0"



SECTION A-7

Scale: ¼"=1'-0"



SECTION B-7

Scale: ⅛"=1'-0"

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
⚠	6/14/66	R.V.B.	AS BUILT PLANS

DESIGNED: R.V.B. TRACED:
DRAWN: E.D.S. CHECKED: R.V.B.

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES

PAVING DETAILS

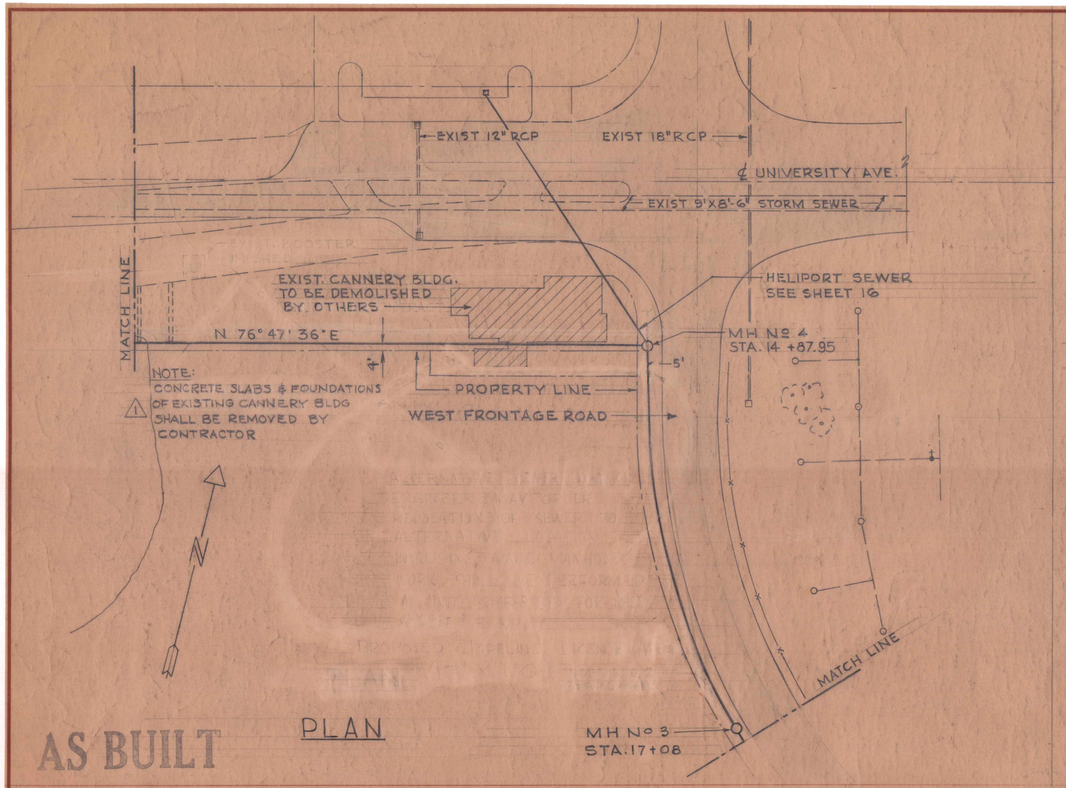
RECOMMENDED BY: Wm. J. Dabel — DATE: 7/21/65
ASST. CITY ENGINEER — NO. 9078 — REG. CIVIL ENGR.

APPROVED BY: J. H. Heath — DATE: 7-21-65
DIRECTOR OF PUBLIC WORKS — NO. 9334 — REG. CIVIL ENGR.

PLAN NO.: 4016

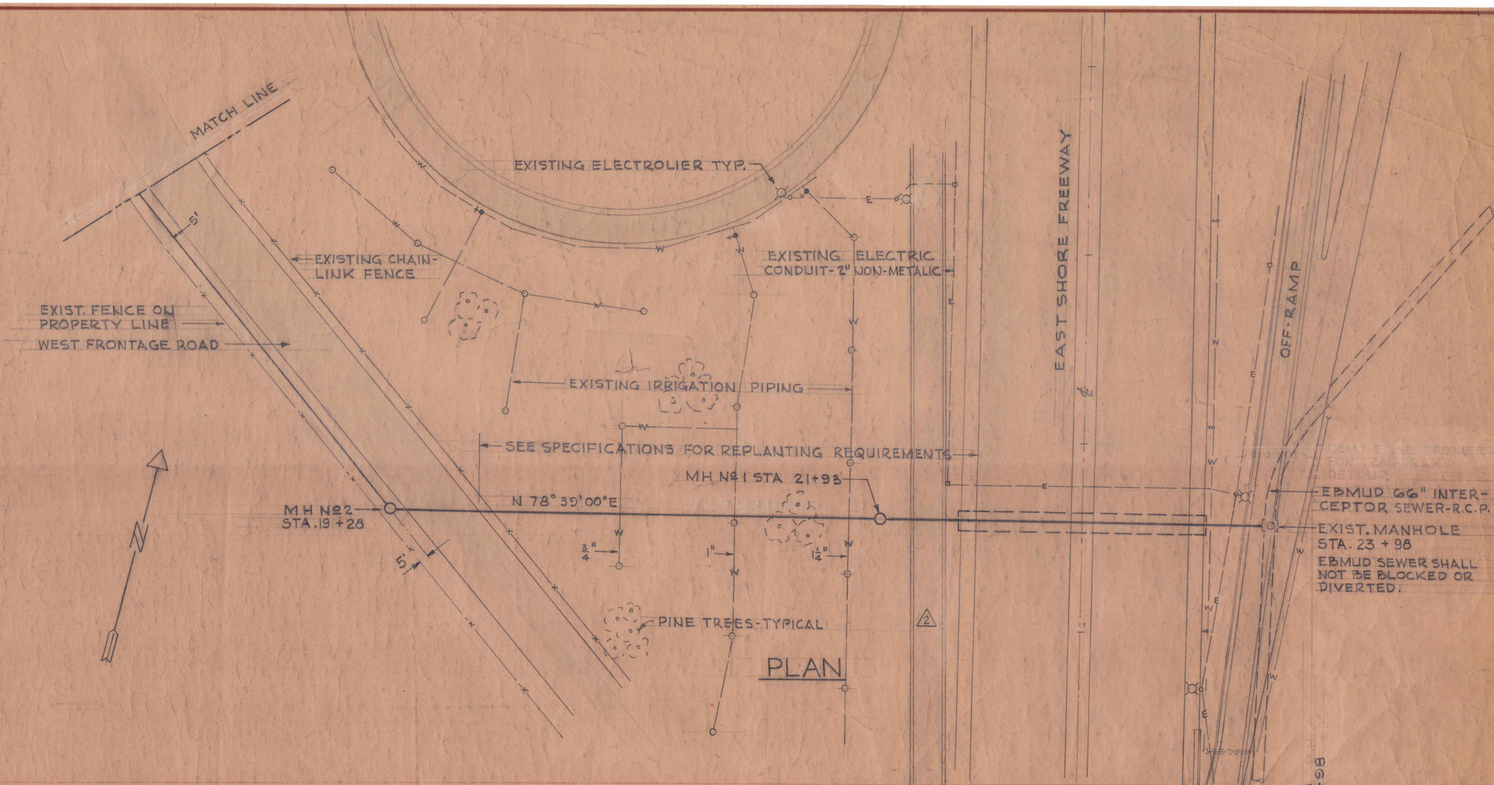
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK — DATE

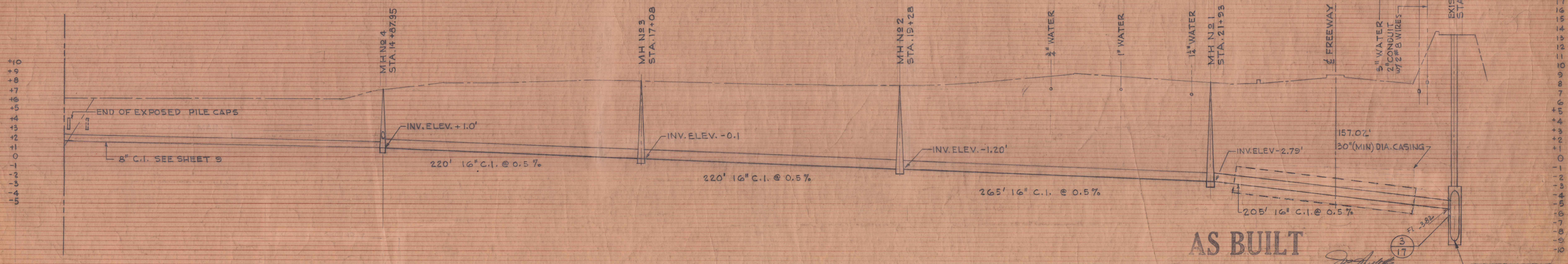
SCALES: HORIZ. VERT.
DATE
BOOK PAGE
FILE: 405-12
SHEET 7 OF



AS BUILT

PLAN





PROFILE

AS BUILT

ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' = 6.23' MILL W.
FOR SYMBOLS SEE SHEET 17

KELLEN & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

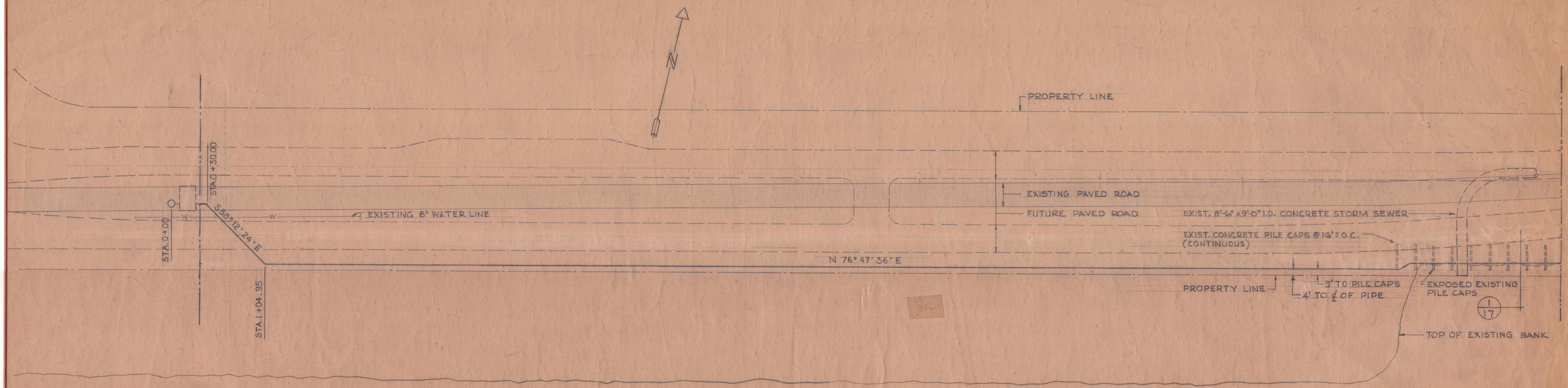
JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
1	2/10/65	RVB	Addendum No. 1
2	6/9/66	JRK	AS BUILT PLANS

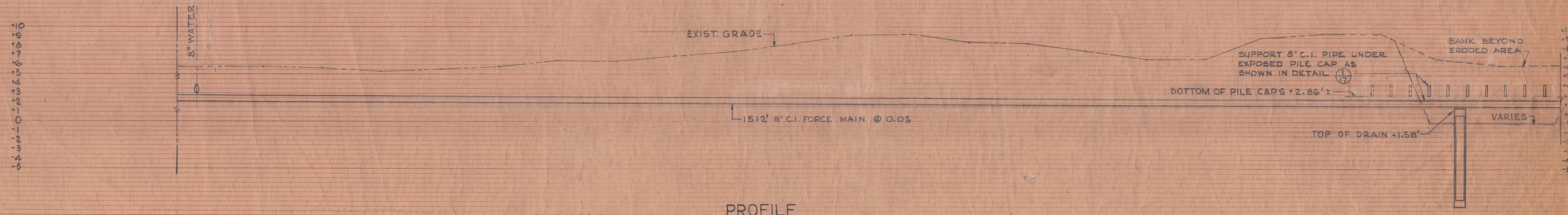
DESIGNED: C.D.L. TRACED:
DRAWN: O.P. CHECKED: C.D.L.
RECOMMENDED BY: DATE: 7/21/65
Wm J. Dabel NO. 9078
ASST. CITY ENGINEER REG. CIVIL ENGR
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA-PAVING & UTILITIES
UNIVERSITY AVE. SEWER

APPROVED BY: DATE: 7-21-65
J.T. Hart NO. 9334
DIRECTOR OF PUBLIC WORKS REG. CIVIL ENGR
SCALES: HORIZ 1"=40'-0" VERT. 1"=5'-0"
DATE BOOK PAGE
PLAN NO. 4016
FILE 405-12
SHEET 8 OF 22



PLAN



PROFILE

AS BUILT

ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' = 6.23' MILLW
FOR SYMBOLS SEE SHEET 17

KELLER & GANNON

AS BUILT


JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
	6-9-66	JRK	AS BUILT PLANS

DESIGNED: CDL TRACED:
DRAWN: O. P-G. D CHECKED: CDL
RECOMMENDED BY: DATE: 7/1/65
Wm J. Dabel NO. 9078
ASST. CITY ENGINEER REG. CIVIL ENGR.
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA-PAVING & UTILITIES
UNIVERSITY AVE. SEWER

APPROVED BY: DATE: 7-21-65
DIRECTOR OF PUBLIC WORKS NO. 3331 REG. CIVIL ENGR.
SCALES: HORIZ 1"=40'-0" VERT. 1"=5'-0"
BOOK PAGE
PLAN NO. 4016
FILE: 405-12
SHEET 9 OF 22



SEWER REPLACED 1984-5

ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' = 6.23' MILLW
FOR SYMBOLS SEE SHEET 17

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

BERKELEY MARINA - PAVING & UTILITIES

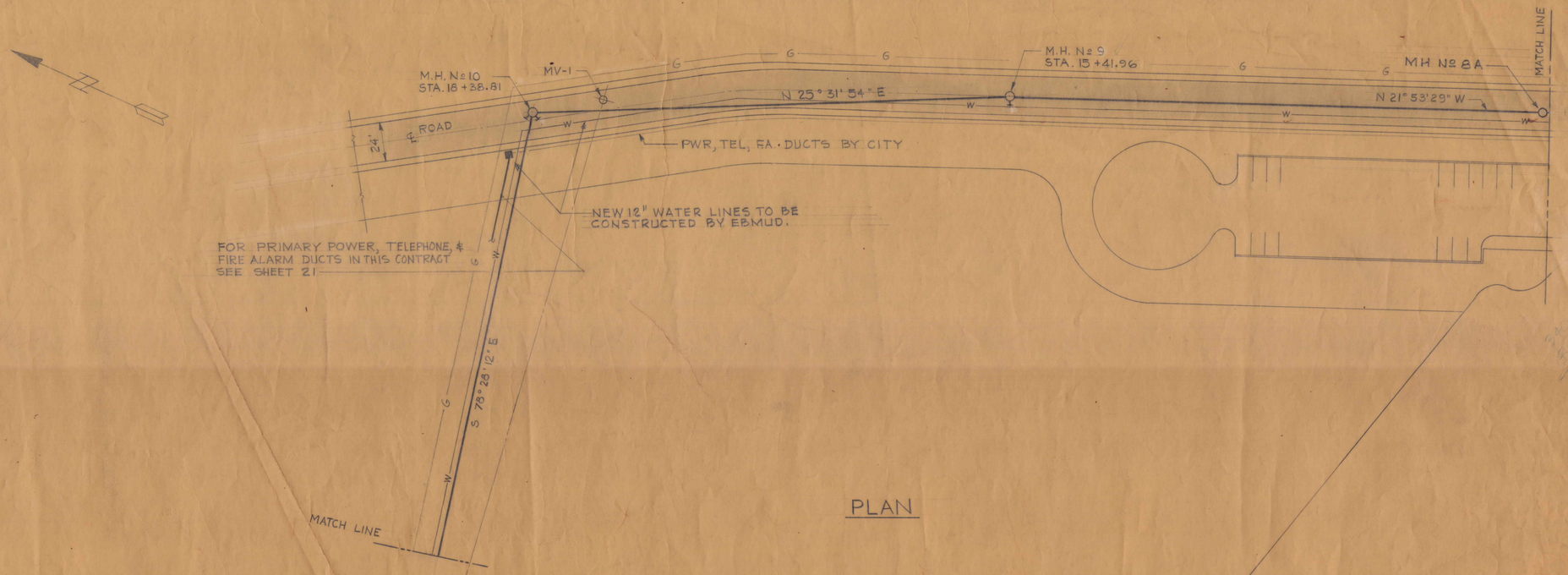
EAST BASIN UTILITIES

REVISIONS

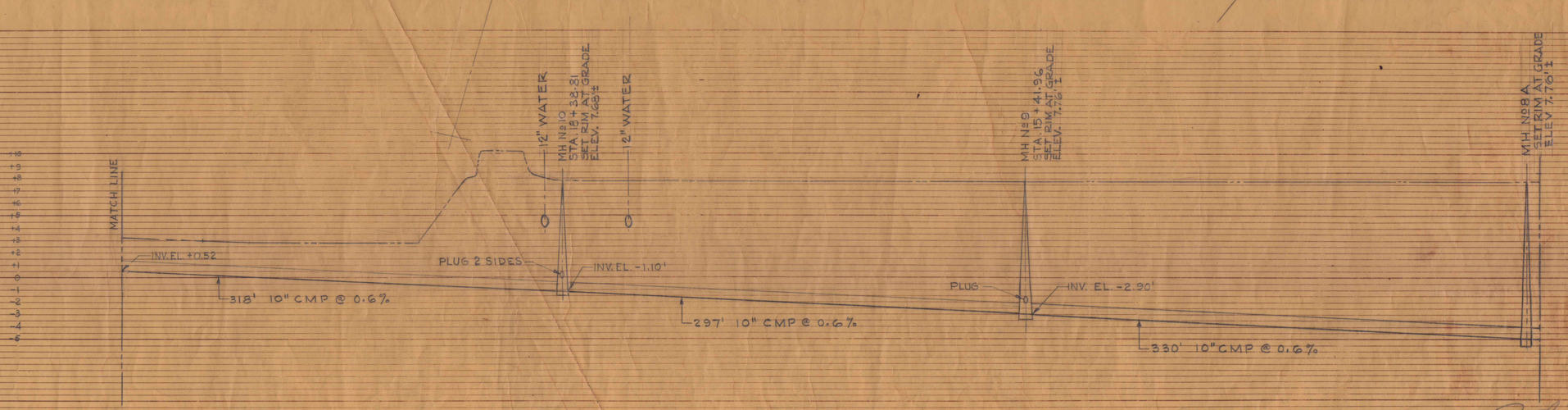
MARK	DATE	BY	DESCRIPTION
1	6/9/66	JRK	AS BUILT PLANS

DESIGNED: CDL — TRACED:
DRAWN: G.P. — CHECKED: CDL
SAN SEWER RECOMMENDED BY: Wm J. Dabel, ASST. CITY ENGINEER — DATE: 7/21/65 — NO.: 9078 REG. CIVIL ENGR.
APPROVED BY: [signature], DIRECTOR OF PUBLIC WORKS — DATE: 7-21-65 — NO.: 9334 REG. CIVIL ENGR.
PLAN NO.: 4016
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK — DATE
SCALES: HORIZ. 1"=40'-0" VERT. 1"=5'-0" — DATE
BOOK — PAGE
FILE: 405-12
SHEET 10 OF 22

AS BUILT



PLAN



PROFILE

AS BUILT

SEWERS REPLACED
1984-85 and earlier

ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' = 6.23' MLLW
FOR SYMBOLS SEE SHEET 17

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
	6-96	JRK	AS BUILT PLANS

DESIGNED: C.D.L. TRACED:
DRAWN: G.P.-O.P. CHECKED: C.D.L.
RECOMMENDED BY: DATE: 7/21/65
Wm. J. Dabl NO. 9078
ASST. CITY ENGINEER REG. CIVIL ENGR.
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
EAST BASIN SEWERS

APPROVED BY: DATE: 7-21-65
DIRECTOR OF PUBLIC WORKS NO. 9334 REG. CIVIL ENGR.
SCALES: HORIZ 1"=40'-0" VERT. 1"=5'-0"
DATE
BOOK PAGE
PLAN NO.: 4016
FILE: 405-12.
SHEET 11 OF 22

NOTE: EXACT LOCATIONS OF PARKING LOT LIGHTS TO BE AS SHOWN ON SHEET NO. 4. DETAIL 4/17 ⚠

Note: Elev. of north rim of Mon. MV-2 = 5.85 (Berkeley Datum)

WATER METER FOR FUEL DOCK ⚠ 1"

1½" DOUBLE CHECK VALVE ASSEMBLY

To City of Berkeley Mon. MV-2 S 70° 27' 28" W 301.96'

W.P. No. 6

MATCH LINE

Δ = 134-57-50

S 33° 26' 02" W 12.0'

PG&E PAD-MOUNTED TRANSFORMER. FOR PAD SEE SHEET 21.

MH № 13 STA. 31+43.46

3"C

S 78° 28' 12" W

NORTH BASIN BOAT RAMP RESTROOM

2"C 4 #2

3"S + GROUND - 1"C

CONNECT CONDUCTORS IN EXISTING HANDHOLES

4#8 + GROUND - 1¼"C

3-500MCM + GROUND - 3"C

KIOSK

MH № 12 STA. 28+45.46

INV. ELEV. +3.0

TELEPHONE H.H.

FLOAT LIGHT H.H.

FLOAT POWER HANDHOLE

Top of bank S 78° 28' 12" W 900.49'

CONNECT TO EXIST 2" GATE VALVE

2" PRV

¾"C 3#12

WATER METERS

TELEPHONE H.H. DOUBLE CHECK VALVE ASSEMBLY 2/17

CONNECT TO EXIST 2" GATE VALVE

CIRCUIT BREAKERS FOR P.G.&E. SERVICE 7/17

160'-6"

℄ PIPE

160'-6"

P.G. & E. PAD MOUNTED TRANSFORMER. FOR PAD SEE SHEET 21.

3"C

3#8 + GROUND - 1"C

NORTH BASIN RESTROOM

4" - INV. ELEV. + 3.0'

NOTE: FOR EXACT LOCATION OF PLANTER LIGHTS SEE SHEETS 4 & 6 "BRICK PAVING"

M.H № 11A

LIFT STATION STA. 24+55.46

ELECTRIC SERVICE PULLBOX (TRAFFIC TYPE) SEE SHEET 18

W.P. № 5

M.H № 11 STA. 21+55.78

MATCH LINE

S 78° 28' 12" W

PLAN

FLOATS "A" "B" & "C" N.I.C.

FLOATS "D" & "E" N.I.C.

NOTE

FOR PRIMARY POWER, TELEPHONE & FIRE ALARM DUCTS IN THIS CONTRACT, SEE SHEET 21

AS BUILT

SET RIM AT GRADE ELEV. 6.50' ±

MH № 13 STA. 31+43.46

INV. EL. +0.37'

298' 8" CMP @ 0.6%

4" HOUSE CONN.

MH № 12 STA. 28+45.46 SET RIM AT GRADE ELEV. 6.01' ±

ELECT. AND TEL. DUCTS

INV. EL. -1.30'

CMP ARCH

CMP ARCH

3" WATER

"CMP ARCH

380' 8" C.M.P @ 0.6%

ELECT AND TEL. DUCTS

ELECT DUCTS "CMP ARCH

ELECT. DUCT

4" C.I. LATERAL START INV. AT +3.0' MH № 11A

SET RIM AT 6.01±

LIFT STATION STA. 24+55.46 SET RIM AT GRADE ELEV. 6.01' ±

10' 8" CIP INV ELEV. -3.58'

FUTURE GRADE

EXIST. GRADE

LH

INV. EL. +2.5'

300' 10" CMP @ 0.6%

PLUG

INV. EL. +0.7

MH № 11 STA. 21+55.78 SET RIM AT GRADE ELEV. 6.50' ±

MATCH LINE

+10 +9 +8 +7 +6 +5 +4 +3 +2 +1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10

PROFILE

ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' = 6.23' MILLW FOR SYMBOLS SEE SHEET 17

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
⚠	6/1/66	JRK	AS BUILT PLANS

DESIGNED: CDL TRACED:
DRAWN: O.P CHECKED: CDL

SAN SEWER RECOMMENDED BY: DATE: 7/21/65
Wm J. Dahl ASST. CITY ENGINEER No. 9078

APPROVED BY: BERKELEY CITY COUNCIL
CITY CLERK DATE

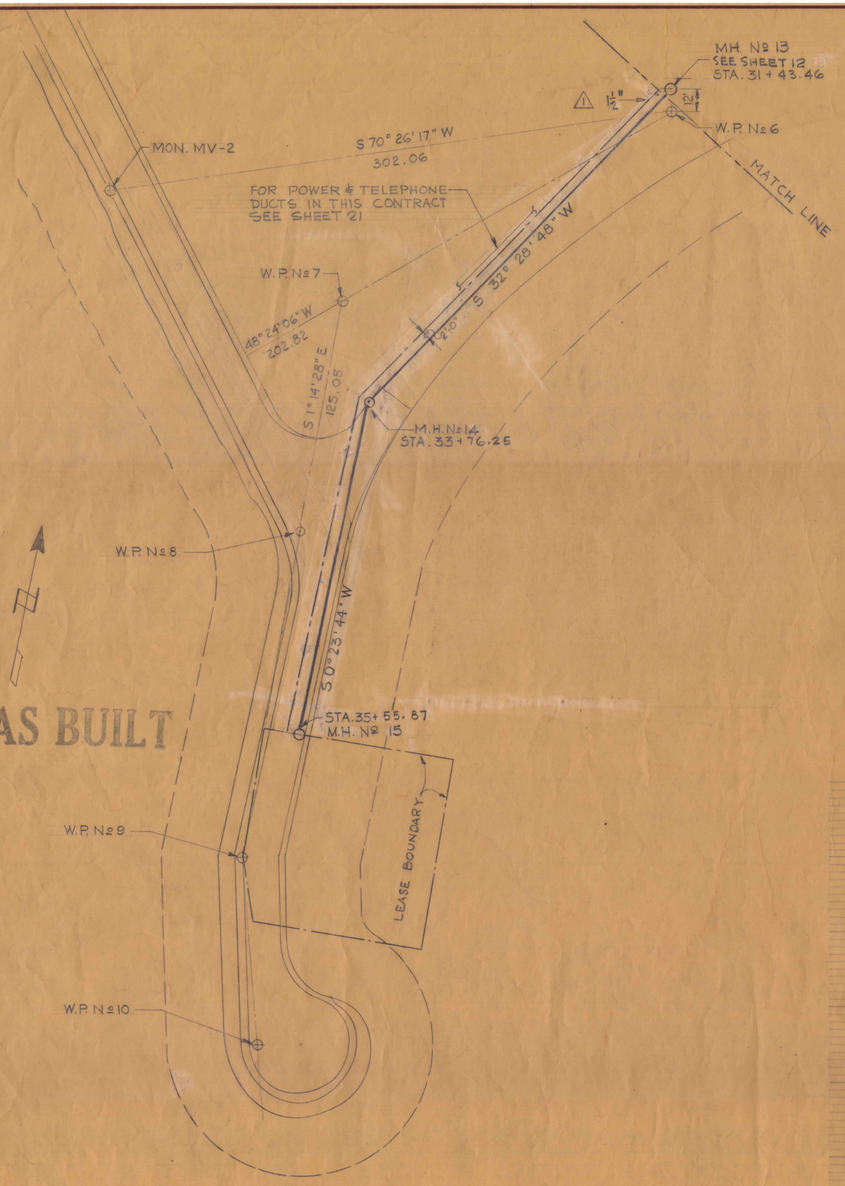
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES

NORTH BASIN UTILITIES

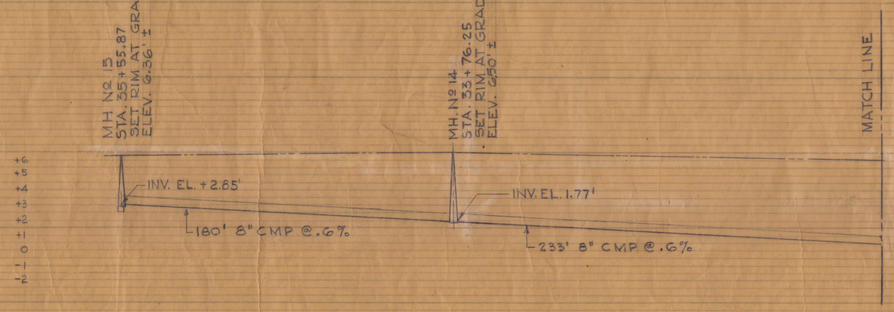
APPROVED: DATE 7-21-65
DIRECTOR OF PUBLIC WORKS No. 9334
REG. CIVIL ENGR.

SCALE: HORIZ. 1"=40'-0" VERT. 1"=8'-0"
BOOK DATE PAGE

PLAN NO. 4016
FILE 405-12
SHEET 12 OF 22



PLAN



PROFILE

ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' = 6.23' MLLW
FOR SYMBOLS SEE SHEET 17

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
1	6-9-66	JRK	AS BUILT PLANS

DESIGNED: E.D.L. TRACED:
DRAWN: O.P.-J.S. CHECKED: E.D.L.

RECOMMENDED BY: Wm J. Dabel DATE: 7/21/65
ASST. CITY ENGINEER NO. 9078 REG. CIVIL ENGR.

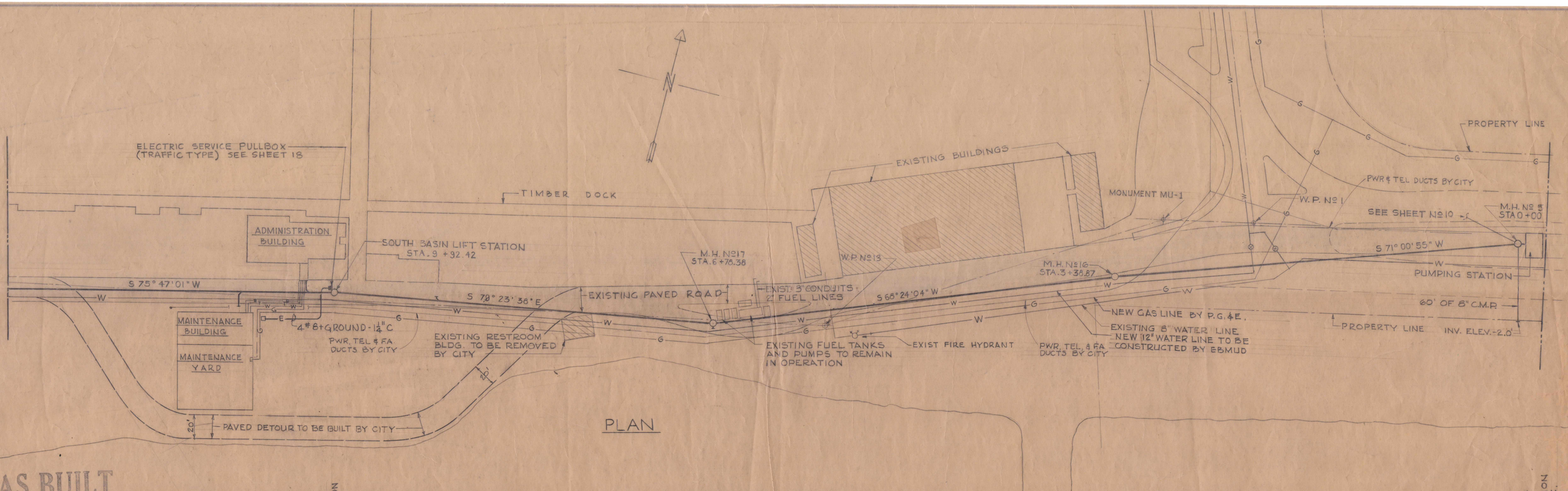
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

APPROVED BY: DATE: 7-21-65
DIRECTOR OF PUBLIC WORKS NO. 9334 REG. CIVIL ENGR.

SCALES:
HORIZ 1"=40'-0"
VERT. 1"= 5'-0"
DATE
BOOK
PAGE

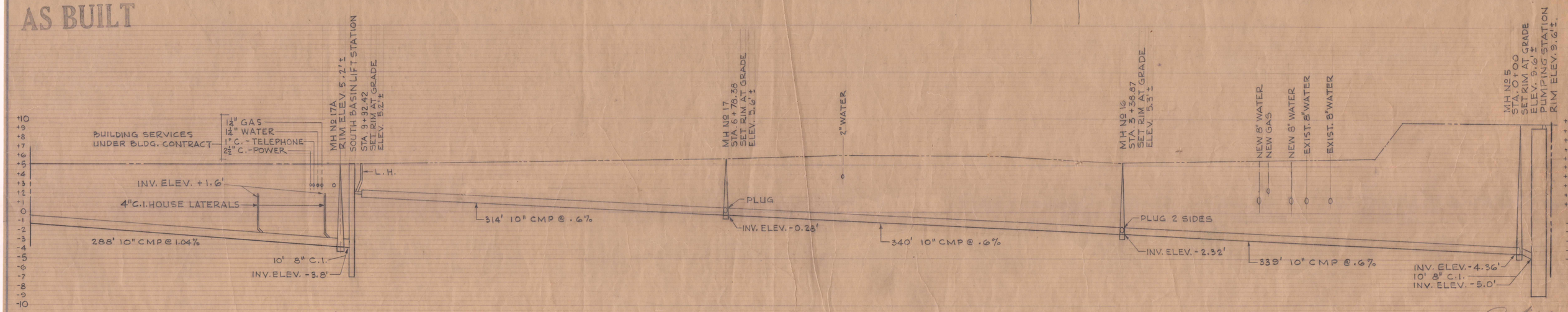
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
NORTH DIKE UTILITIES

PLAN NO.: 4016
FILE: 405-12
SHEET 13 OF 22



PLAN

AS BUILT



PROFILE

AS BUILT

ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' = 6.23' MILLW
FOR SYMBOLS SEE SHEET 17

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

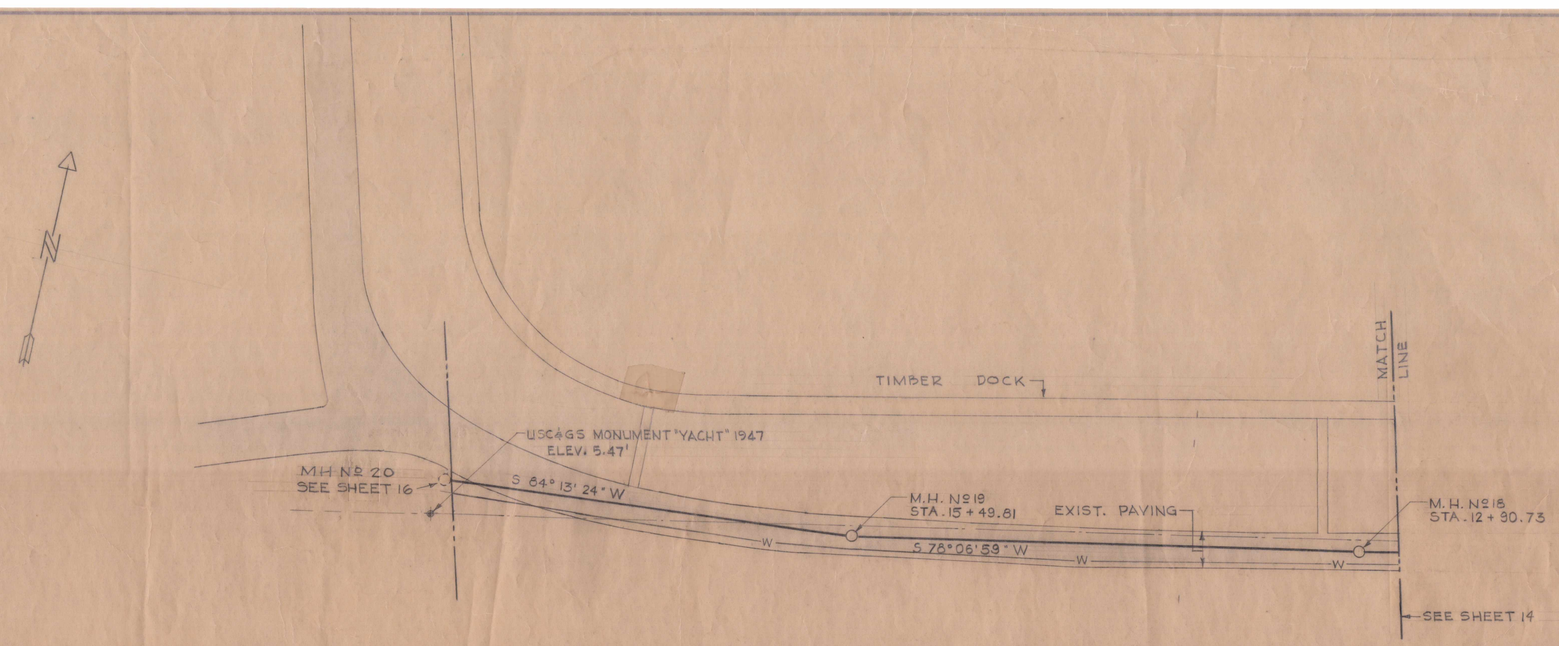
JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
	6/9/66	JRK	AS BUILT PLANS

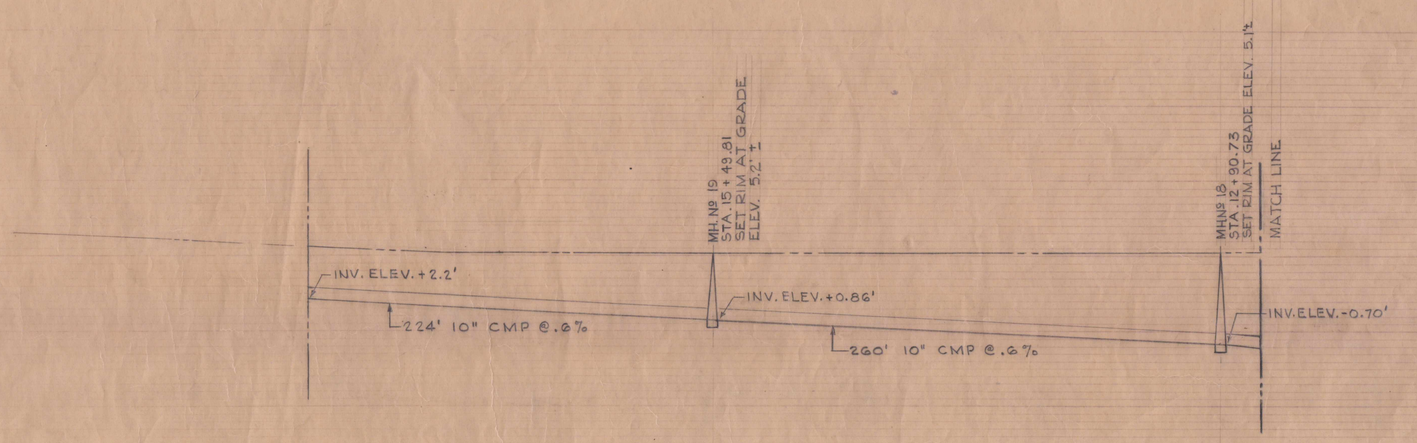
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES

SOUTH BASIN SEWER

DESIGNED: C.D.L. TRACED:
DRAWN: J.S. - O.P. CHECKED: C.D.L.
RECOMMENDED BY: DATE 9/2/65
Wm J. Dalbel 9078
ASST. CITY ENGINEER REG. CIVIL ENGR.
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE
APPROVED BY DATE 7-21-65
NO. 9334
DIRECTOR OF PUBLIC WORKS REG. CIVIL ENGR.
SCALES: HORIZ 1" = 40' VERT. 1" = 5'
DATE
BOOK
PAGE
PLAN NO. 4016
FILE 405-12
SHEET 14 OF 22



PLAN



PROFILE

AS BUILT

AS BUILT

ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' - 6.23' MLLW
FOR SYMBOLS SEE SHEET 17

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS


JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
6966		JRK	AS BUILT PLANS

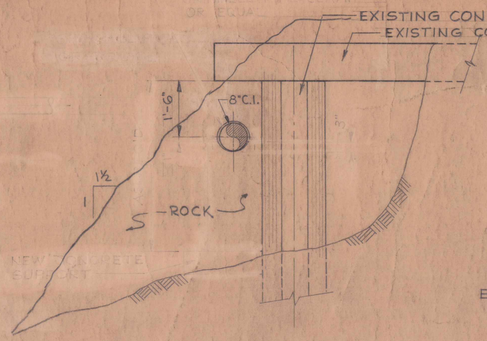
DESIGNED: C.D.L. TRACED:
DRAWN: G.P. CHECKED: C.D.L.

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
SOUTH BASIN SEWER

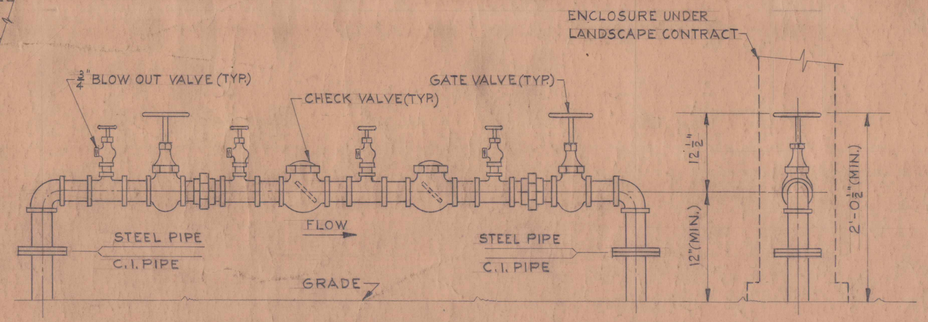
RECOMMENDED BY: Wm J. Dabel, ASST. CITY ENGINEER — DATE 7/21/65 — NO. 9078 REG. CIVIL ENGR.
APPROVED: DIRECTOR OF PUBLIC WORKS — DATE 7-21-65 — NO. 9334 REG. CIVIL ENGR.
PLAN NO. 4016
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK — DATE
SCALES: HORIZ. 1" = 40' VERT. 1" = 5'
DATE
BOOK — PAGE
FILE: 405-12
SHEET 15 OF 22



AS BUILT
Fishing Pier
Remove exist. M.H. and Septic Tank frames and covers Fill abandoned structures with sand
Sta. 104+69 84
Connect to exist. 6" C.I. line
Sta. 104+25 72
Const. Std. M.H.
Construct 44' of 8" CMP
Const 8" CMP stub to south for future use
Plug stub
Future Top of Bank
Uniform Building Ground El. 20'
Construct 426' of 8" CMP
Existing Top of Bank
Future Top of Bank
Existing Transmitter Build.
Existing Rest Rooms
Future Roadway
Const. Manhole
Connect 4" VCP lateral from existing Rest Rooms.
Construct 57' of 10" CMP
Survey Pt. YACHT
MATCH LINE
Const. Lift Station
Connect to line to East
Sta. 14+00
Const. Std. M.H.
Construct 400± of 8" CMP
Construct 431' of 8" CMP
4" VCP
Existing Berkeley Yacht Club House
4" C.O.
Const. Std. M.H.
Connect exist. lateral with 10' of 4" V.C.P.
Future Roadway
PLAN
SCALE 1"=100'
All elevations are MLLW Datum
CONTOURS ARE BASED ON M.L.L.W.
SEWER GRADES BASED ON C of B DATUM
0.00 C of B DATUM = 6.23 M.L.L.W.
Heliport ticket office (Existing)
Const. 24" J.B. Connect two existing, adjacent 4" VCP lines inside J.B. Locate as reqd. to avoid exist. elect. ducts.
Planter
Septic
Septic
Electric
Telephone
Const. 155' of 4" VCP
40'±
Remove exist. Septic Tank Frames & Covers & fill abandoned structures with sand. Cap aband. pipes.
Exist. st. Drain
UNIVERSITY AVE.
PLAN
Scale: 1"=20'
Exist. Fish Cannery
MH #4
Sta. "H" 0+00
Sta 99+43
New "Yacht Point" Lift Station
Sta 9+70 = Sta 100+00
New M.H.
EL 7.00
EL 8.50
Proposed finished grade
Existing grade
EL 2.20
57' of 10" CMP @ 0.7%
EL 2.60
New 4" V.C.P. lateral from exist. rest rooms.
EL -2.50
430' of 8" CMP @ 0.5%
EL 6.31
EL -0.35
Sta. 14+00
New MH
431' of 8" CMP @ 0.5%
EL 5.8
lateral
EL 1.80
Sta. 18+30.8
New M.H.
Proposed finished grade
EL 8.50
Existing grade
426' of 8" CMP @ 0.6%
EL -1.00
Sta 9+70
EL 7.00
8" Stub to south
Existing 6" C.I.
44' of 8" CMP @ 0.75%
EL 1.54
EL 1.77
Sta 104+25 72
New MH
Sta 104+69 84
PROFILE
SCALE 1"= 40' Horiz.
1"= 4' Vert.
All elevations are City of Berkeley Datum
Sta "H" 0+00
New MH (#4)
EL 6.3
EL 1.0
EL 1.6
8" Water
155' of 4" VCP @ 1.55%
Sta "H" 1+55
New J.B.
EL 6.54
EL 4.0
Existing 9'x 8½' Storm Drain
PROFILE
SCALE
1"= 40' HORIZ.
1' = 4' VERT.
APPROVAL RECOMMENDED: DATE May 5, 65
Wm J. Dabel ASST. CITY ENGINEER
CIVIL ENGINEER REGISTRATION NO. 9078
APPROVED DATE 7-21-65
DIRECTOR OF PUBLIC WORKS
CIVIL ENGINEER REGISTRATION NO. 9334
AS BUILT
As Built RVB 6/14/65
Revised - L.S. 6-24-65
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
- ENGINEERING DIVISION -
YACHT CLUB — FISHING PIER
SANITARY SEWER
HELIPORT SANITARY SEWER
DRAWN BY H.P.
TRACED BY
CHECKED BY T.D.E.
DATE 4-30-65
SCALES HORIZ. As Shown VERT. 1"=4'
BOOK S-84 PAGE 1
PLAN NO. 4016 405-12
SHEET 16 OF 22



S DETAIL 1/17 ⚠
½"=1'-0"



DOUBLE CHECK VALVE INSTALLATION 2/17
SCALE: 1"=1'-0"

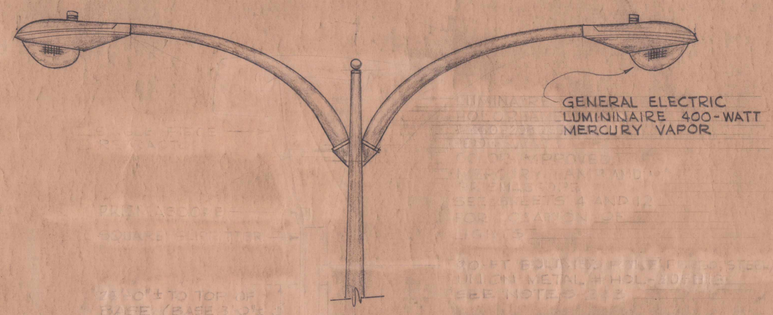
ELECTRICAL & MECHANICAL SYMBOLS

—W—	WATER MAINS EXISTING OR NOT INCLUDED UNDER THIS CONTRACT
—·—·—	WATER SERVICE PIPING INCLUDED UNDER THIS CONTRACT
———	SANITARY SEWER
—⊗—	GATE VALVE IN VALVE BOX
—E—	MASTER-METERED SECONDARY SERVICE CONDUIT & WIRE.
—P—	PG&E SERVICE CONDUIT - SEE NOTE 3
—L—	PARKING LOT OR FLOAT LIGHTING CIRCUIT CONDUIT & WIRE
—T—	TELEPHONE CONDUIT (EMPTY) 2"
□	HANDHOLE PROVIDED UNDER ANOTHER CONTRACT
■	NEW HANDHOLE-DEPTH AS REQ'D FOR PG&E SPECS
Ⓐ	PARKING LOT LIGHT - SEE DETAIL 4/17
—G—	GAS PIPING - NOT INCLUDED IN THIS CONTRACT
●B	PLANTER LIGHT - "GARDCO" # F 5368
H.H.	HANDHOLE

NOTES:

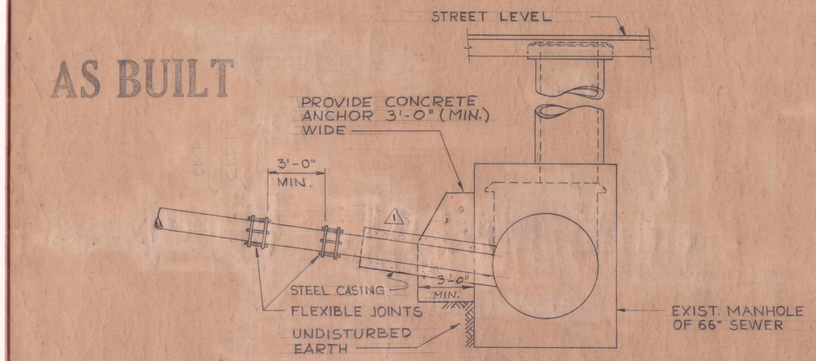
1. ALL GRADES ARE BASED ON CITY OF BERKELEY DATUM, 0.0' = 6.23 M.L.L.W.
2. PARKING LOT LIGHT FIXTURE BASE SUPPLIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. SEE "PAVING DETAILS" FOR BASE INFORMATION (SHEET-6).
3. P.G.&E. SERVICE CONDUIT IS IN THIS CONTRACT, BUT WIRING & CONNECTIONS WILL BE BY PG&E AFTER COMPLETION OF THE WORK.
4. ALL METER AND CIRCUIT BREAKER ENCLOSURES SHALL BE HOT-DIPPED GALVANIZED, ABRADED LIGHTLY AND PAINTED WITH TT-P641B TYPE 2 PAINT, COLOR TO BE SELECTED BY THE ENGINEER.

AS BUILT

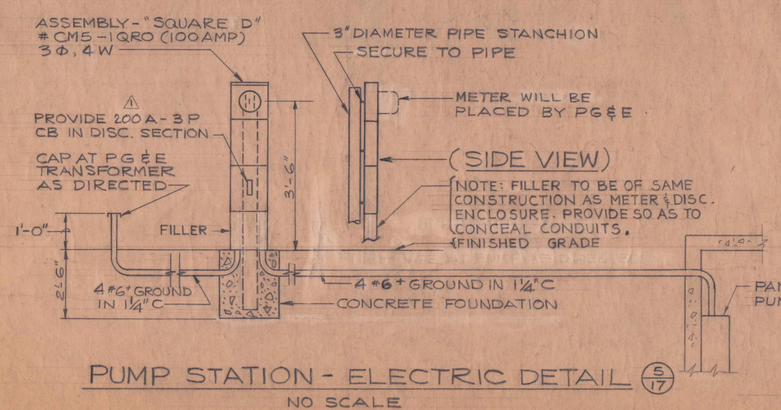


FOR DETAILS OF BASE SEE SHEET 6

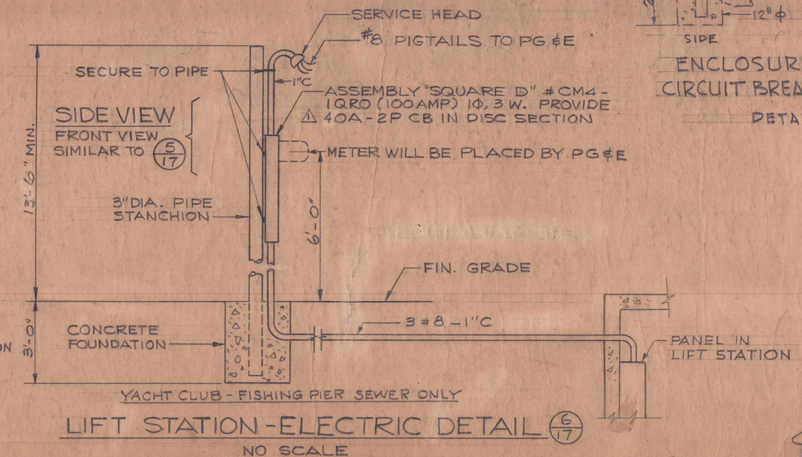
PARKING LOT LIGHT DETAIL 4/17 ⚠
NO SCALE



12" SEWAGE LINE CONNECTION TO EXIST. 66" SEWER 3/17
SCALE: ¼"=1'-0"

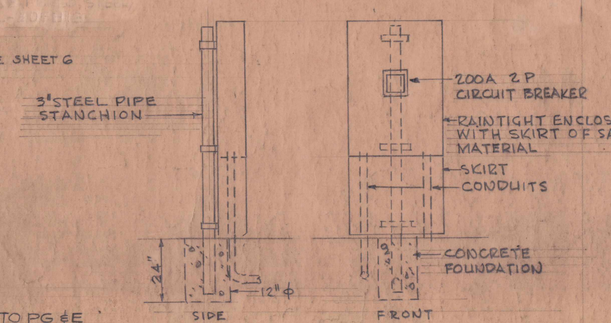


PUMP STATION - ELECTRIC DETAIL 5/17
NO SCALE



YACHT CLUB - FISHING PIER SEWER ONLY

LIFT STATION - ELECTRIC DETAIL 6/17
NO SCALE



ENCLOSURE & SUPPORT FOR CIRCUIT BREAKERS FOR P.G.&E. POWER
DETAIL 7/17 NO SCALE

AS BUILT

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
⚠	6-9-66	JRK	AS BUILT PLANS

DESIGNED RSN-CDL TRACED
DRAWN D.P.-H.W CHECKED CDL
QUANTITIES BY: DATE 7/21/65

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA PAVING & UTILITIES

UTILITY DETAILS

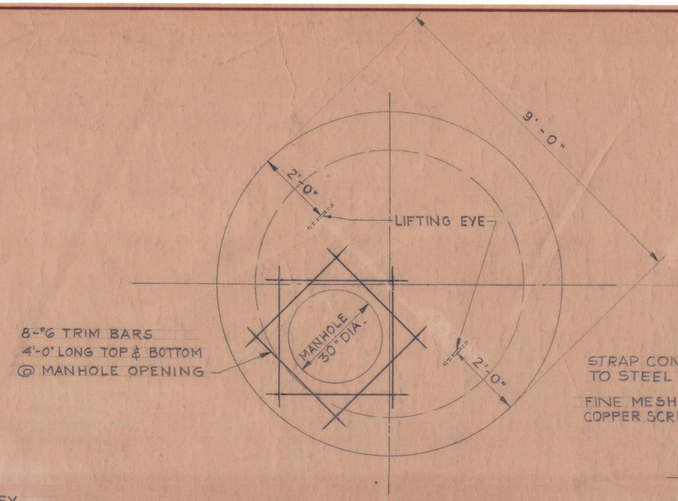
SAN. SEWER

W. J. Dalzell NO. 9078 ASST. CITY ENGINEER REG. CIVIL ENGR.
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

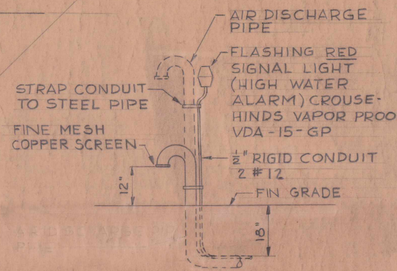
APPROVED BY: DATE 7-21-65
J. E. Hart NO. 9334 DIRECTOR OF PUBLIC WORKS REG. CIVIL ENGR.

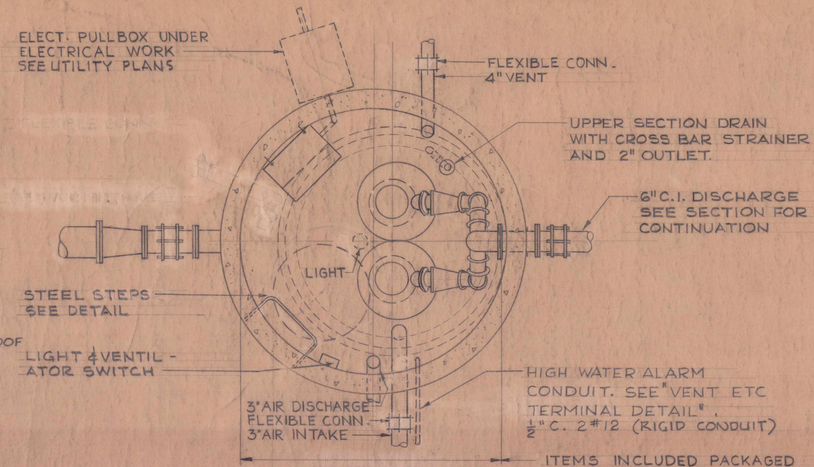
SCALES
HORIZ NOTED
VERT.
DATE
BOOK
PAGE

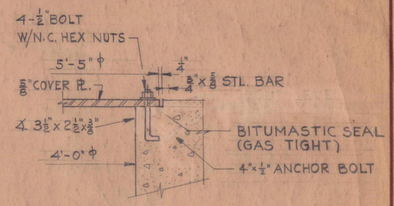
PLAN NO. 4016
FILE 405-12
SHEET 17 OF 22



PLAN







DETAIL "A" ⚠1

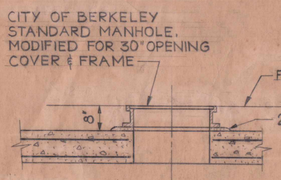
SCALE: 1½"=1'-0"

AIR SUCTION, DISCHARGE AND/OR VENT TERMINALS NO SCALE

TYPICAL FOR PUMPING PLANT & LIFT STATIONS

LOCATED OFF THE ROAD WHERE DIRECTED

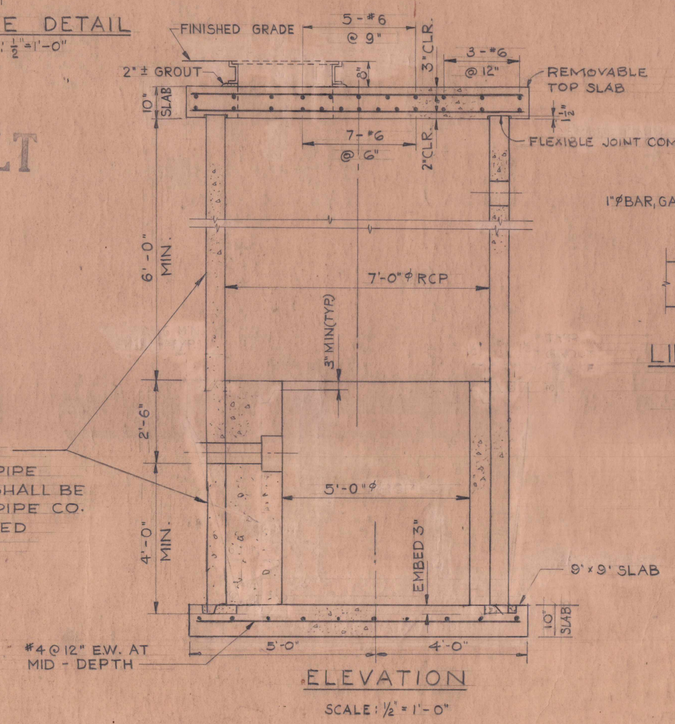
CITY OF BERKELEY STANDARD MANHOLE, MODIFIED FOR 30" OPENING COVER & FRAME



MANHOLE DETAIL

SCALE: ½"=1'-0"

AS BUILT

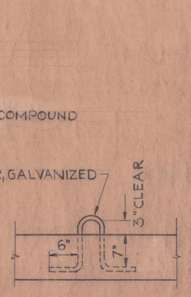


REINFORCED CONCRETE PIPE SECTIONS SHALL BE AMERICAN PIPE CO. OR APPROVED EQUAL

ELEVATION

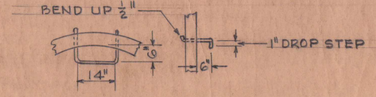
SCALE: ½"=1'-0"

LIFT STATION REINFORCEMENT



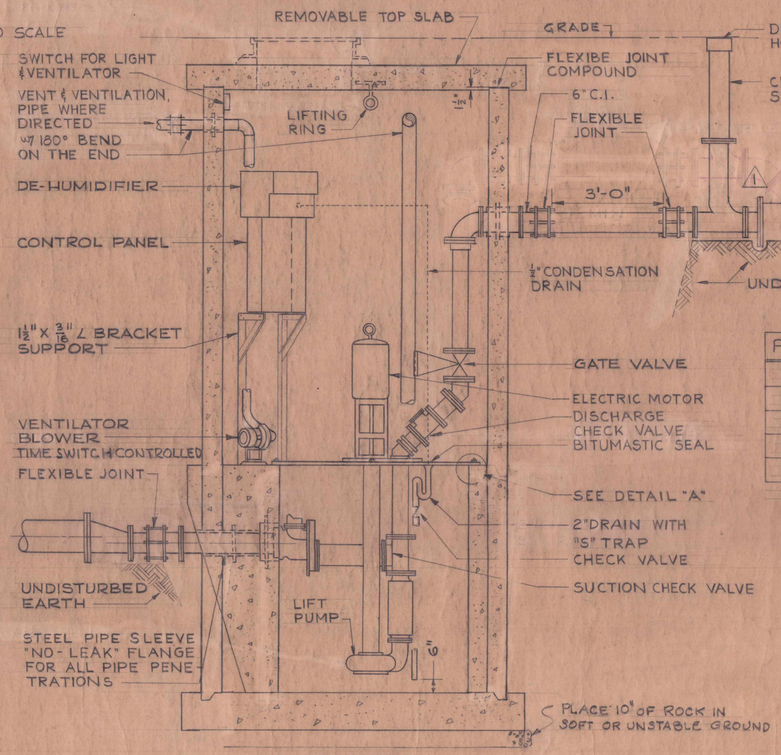
LIFTING EYE DETAIL

SCALE: ¾"="1'-0"



STEP DETAIL NO SCALE

FORM FROM ¾" ϕ WROUGHT IRON. GALVANIZE AFTER BENDING



ELEVATION

SCALE: ½"=1'-0"

NOTES:

1. DO NOT SCALE THIS DRAWING FOR PUMPING EQUIPMENT.
2. PUMPING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS CERTIFIED DRAWING.
3. SEAL ALL PERMANENT JOINTS AND PIPE SLEEVES WATER TIGHT WITH AN EPOXY SEALER USED AS AN ADMIXTURE OF CEMENT MORTOR.
4. PLACEMENT OF ELECTRICAL AND PUMPING EQUIPMENT AND OTHER APPURTENANCES IN LIFT STATIONS SHALL BE SUBJECT TO CITY APPROVAL.

PUMPING CAPACITY SCHEDULE FOR LIFT STATION

STATION	G.P.M.	T.D. HEAD	MOTOR HP(MIN.)	REMARKS
NORTH BASIN	200	10'	1½	1150 RPM - 208 V. - 3ϕ
EAST BASIN	300	10'	3	1150 RPM 120/240 - 1ϕ
SOUTH BASIN	300	10'	3	1150 RPM 208 V. - 3ϕ
YACHT POINT	200	10'	1½	1150 RPM 240V - 1ϕ

ALL MOTORS SHALL BE DRIP-PROOF WITH ENCAPSULATED WINDINGS

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

REVISIONS			
MARK	DATE	BY	DESCRIPTION
⚠1	6-9-66	JRK	AS BUILT PLANS

DESIGNED C.D.L. TRACED

DRAWN O.P. CHECKED C.D.L.

RECOMMENDED BY: DATE 7-1-65
Wm. J. Babel ASST. CITY ENGINEER NO. 9070 REG. CIVIL ENGR.

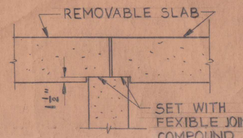
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

APPROVED BY: DATE 7-21-65
J. T. Mart DIRECTOR OF PUBLIC WORKS NO. 9334 REG. CIVIL ENGR.

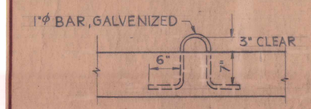
SCALES HORIZ. AS VERT. NOTED DATE

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA—PAVING & UTILITIES
SEWER LIFT STATION

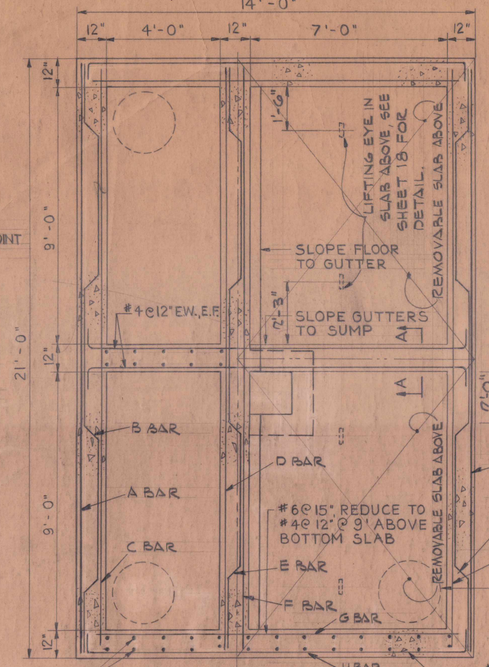
PLAN NO. 4016
BOOK PAGE
FILE 405-12
SHEET 18 OF 22



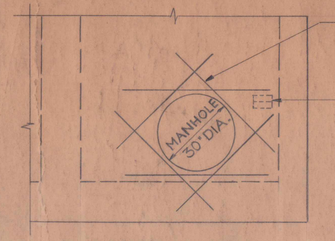
SECTION A-A
SCALE: 1/2"=1'-0"



LIFTING EYE DETAIL
SCALE: 3/4"=1'-0"



HORIZONTAL SECTION

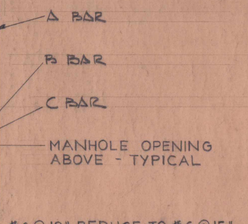


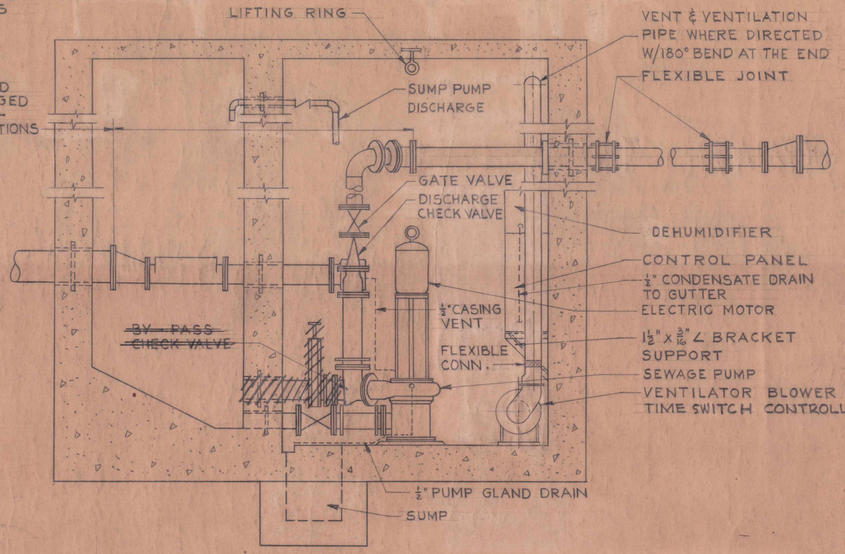
6 - #8 TRIM BARS 5'-0" LONG TOP & BOTTOM @ MANHOLE OPENING

SWITCHES FOR LIGHT & VENTILATORS

FOR CONSTRUCTION OF MANHOLE, SEE MANHOLE DETAIL ON SHEET 18

MANHOLE OPENING DETAIL



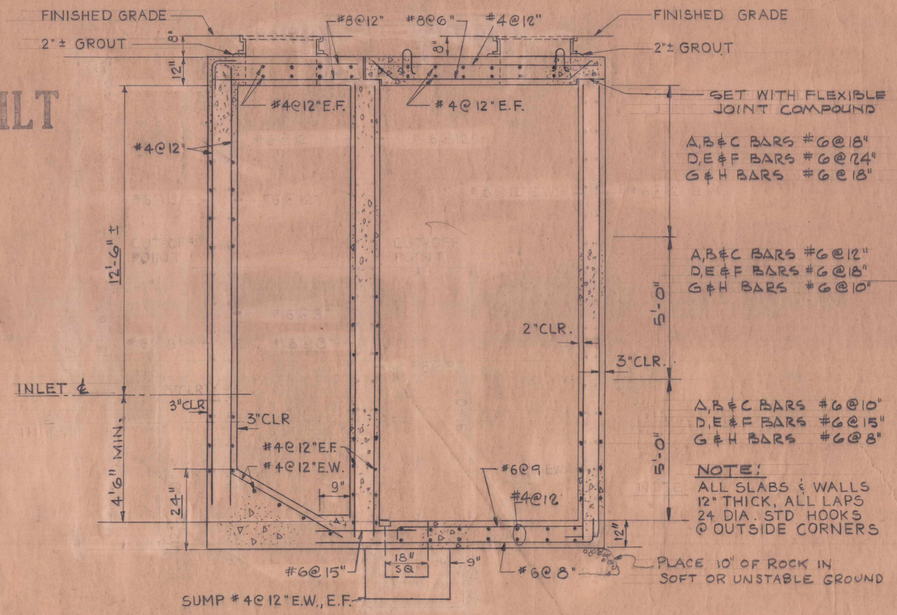


ELEVATION

NOTES:

1. DO NOT SCALE THIS DRAWING FOR PUMPING EQUIPMENT.
2. PUMPING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS CERTIFIED DRAWING
3. SEAL ALL PERMANENT JOINTS AND PIPE SLEEVES WATER TIGHT WITH AN EPOXY SEALER USED AS AN ADMIXTURE OF CEMENT MORTOR.
4. PLACEMENT OF ELECTRICAL AND PUMPING EQUIPMENT AND OTHER APPURTENANCES IN PUMPING STATION SHALL BE SUBJECT TO CITY APPROVAL.

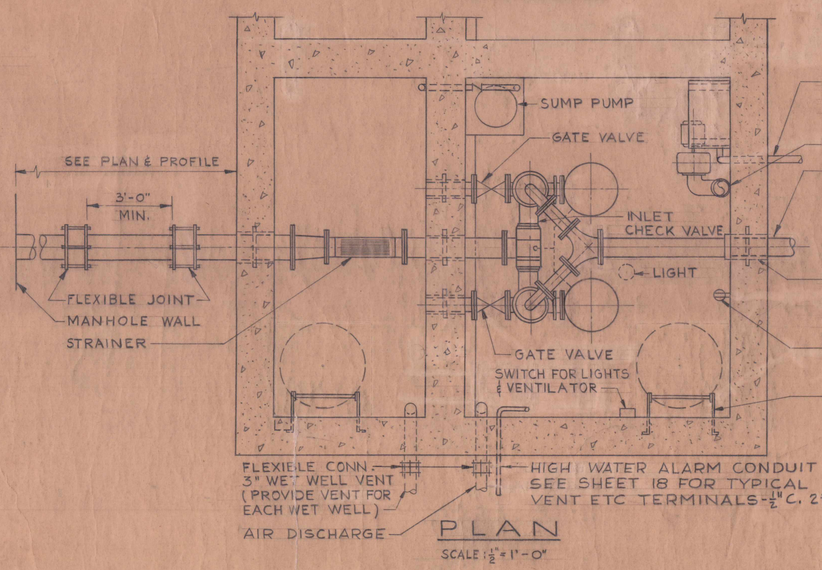
AS BUILT



NOTE:
ALL SLABS & WALLS 12" THICK, ALL LAPS 24 DIA. STD HOOKS @ OUTSIDE CORNERS

VERTICAL SECTION

PUMP STATION REINFORCEMENT
SCALE: 3/8"=1'-0"



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

PUMPING CAPACITY SCHEDULE FOR PUMPING STATION			
G.P.M.	T.D. HEAD	MOTOR HP(MIN)	REMARKS
400	50'	15	1150 RPM - 208 V. - 3ϕ

MOTORS SHALL BE DRIP-PROOF WITH ENCAPSULATED WINDINGS.

KELLER & GANNON ELECTRICAL AND MECHANICAL ENGINEERS

AS BUILT

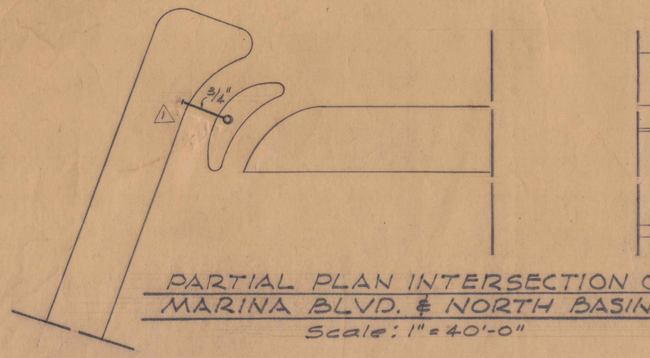
JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
	6-9-66	JRK	AS BUILT PLANS

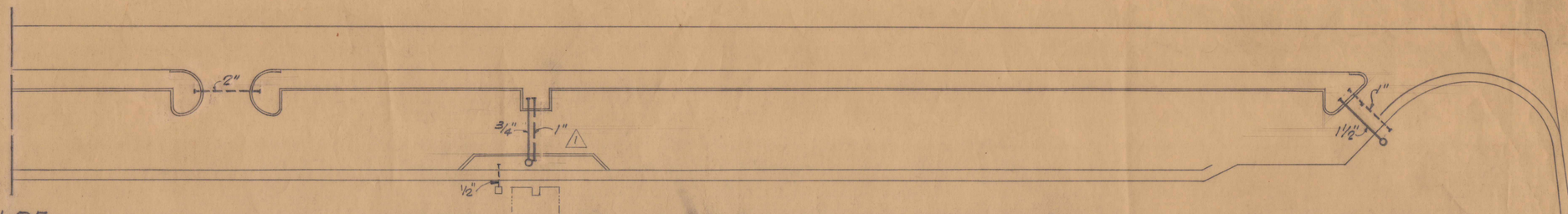
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES
SEWER PUMPING STATION

DESIGNED: C.D.L. TRACED:
DRAWN: D.P. CHECKED: C.D.L.
RECOMMENDED BY: Wm. J. Dabel ASST. CITY ENGINEER NO. 9078 REG. CIVIL ENGR. DATE 7/21/65
APPROVED BY: J. A. Blume DIRECTOR OF PUBLIC WORKS NO. 9334 REG. CIVIL ENGR. DATE 7-21-65
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK DATE

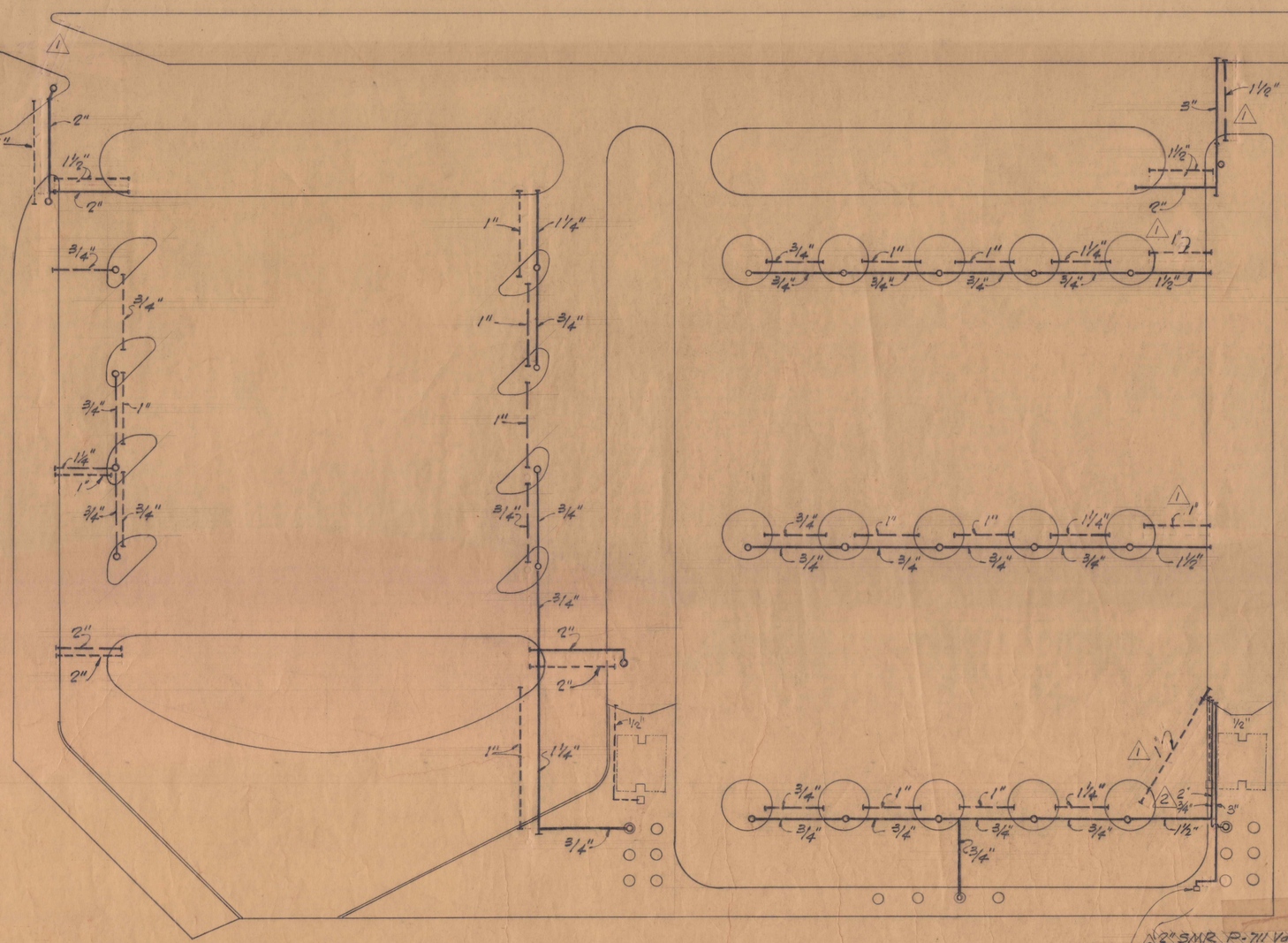
PLAN NO. 4016
SCALES: HORIZ. AS VERT. NOTED DATE BOOK PAGE
FILE 405-12
SHEET 19 OF 22



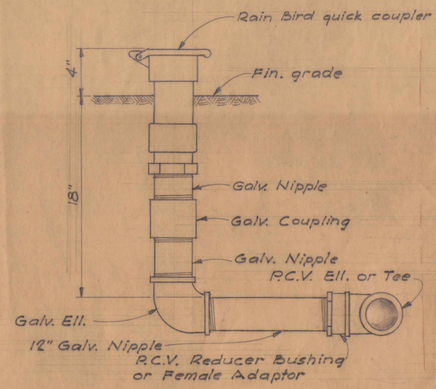
PARTIAL PLAN INTERSECTION OF
MARINA BLVD. & NORTH BASIN ST.
Scale: 1" = 40'-0"



PARTIAL PLAN - EAST BASIN PARKING LOT
Scale: 1" = 40'-0"



PARTIAL PLAN - NORTH BASIN PARKING LOTS
Scale: 1" = 40'-0"



TYP. QUICK COUPLING VALVE DETAIL
No Scale:

LEGEND

- P.V.C. irrigation pipe.
- P.V.C. irrigation pipe for future system.
- P.V.C. conduit for system.
- No. 33 Quick coupling valve, 3/4" I.P.S.
- Cap with lock top.
- Hand hole by others

NOTES:

1. All pipes and conduits for future system to be capped both ends.
2. Drawing is schematic. Pipes and conduit to be laid in common trench whenever possible.
3. Three inch pipes to be Sched. 40, Type I P.V.C. plastic. (1)
4. All pipe two (2) inch or smaller to be schedule 40 Type I P.V.C. Plastic.
5. All fittings for P.V.C. pipe to schedule 40, solvent weld type.

(2) 2" S.M.R. P-711 Vacuum breaker.
2" meter by others

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO


REVISIONS			
MARK	DATE	BY	DESCRIPTION
(1)	11/30/65	RVB	Revised for irrigation control Det. for vacuum breaker Moved 2" & 3/4" lines
(2)	2/14/66	RVB	
	6/15/66	RVB	AS BUILT PLANS

DESIGNED: F.F
TRACED:
DRAWN: W.M.M
CHECKED: R.V.B

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA-PAVING & UTILITIES

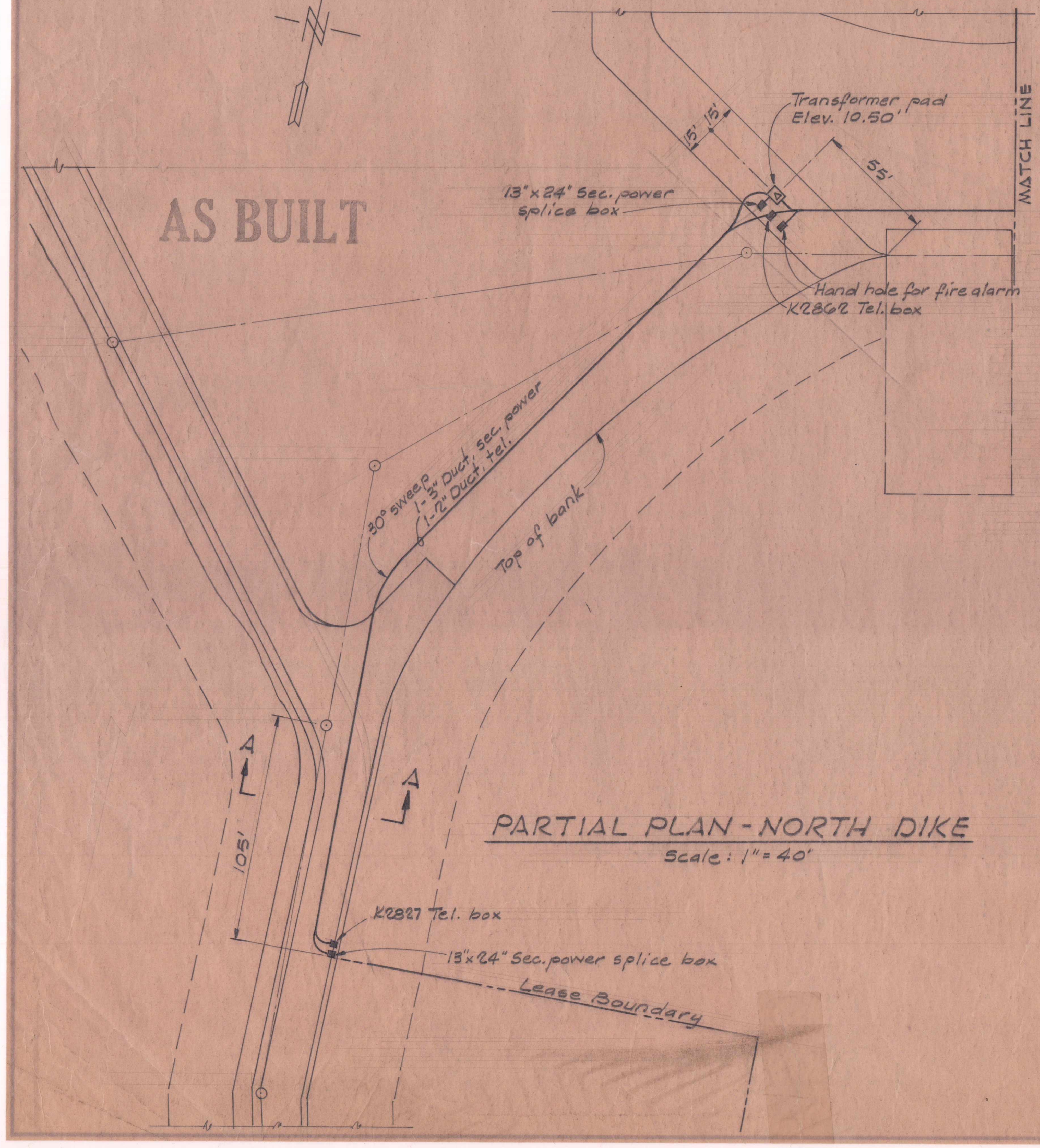
IRRIGATION PIPING

RECOMMENDED BY: E. E. Morton ASST. CITY ENGINEER — DATE 9-21-65 — NO. — REG. CIVIL ENGR.
APPROVED BY: J. E. Matt DIRECTOR OF PUBLIC WORKS — DATE 7-21-65 — NO. 9334 REG. CIVIL ENGR
APPROVED BY BERKELEY CITY COUNCIL — CITY CLERK — DATE
PLAN NO.: 4016
SCALES: HORIZ 1" = 40 — VERT. — DATE — BOOK — PAGE
FILE: 403-12
SHEET 20 OF



PARTIAL PLAN - NORTH BASIN

Scale: 1" = 40'



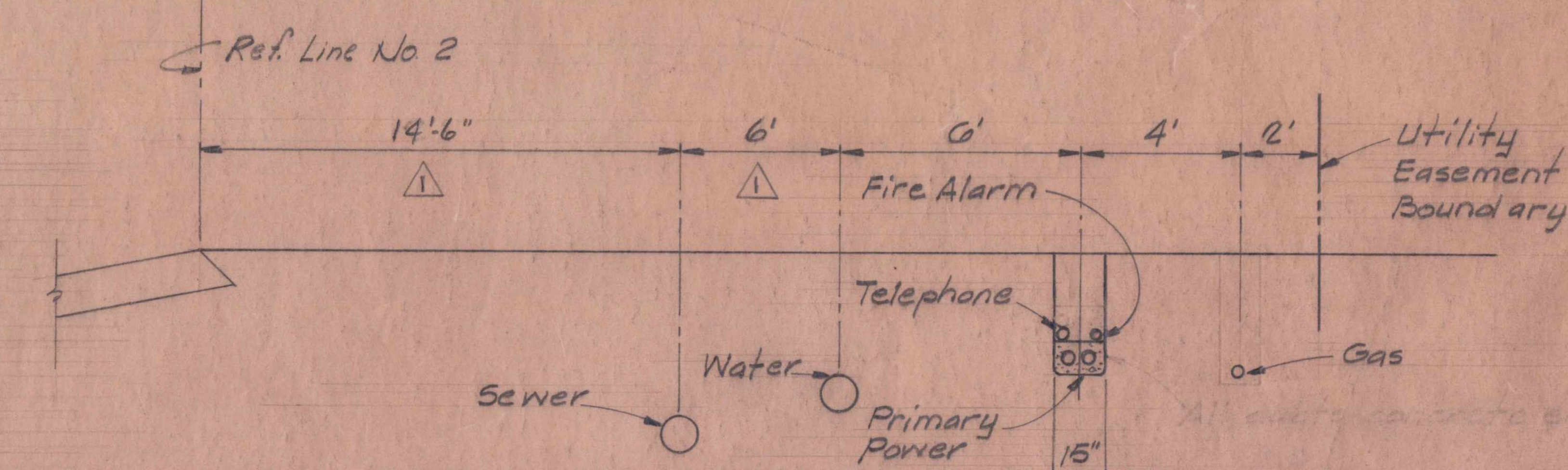
PARTIAL PLAN - NORTH DIKE

Scale: 1" = 40'

NOTES

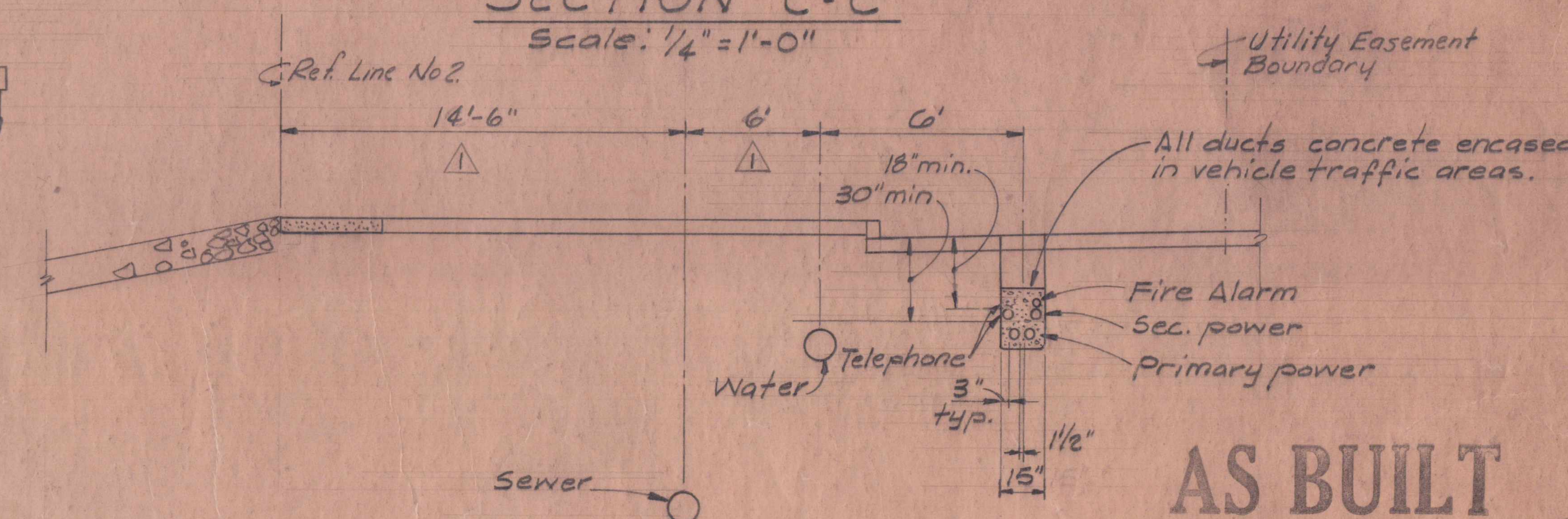
1. Contractor to furnish and install all ducts, transformer pads and boxes.
   Installation of power ducts to be in coformance with PG&E specs.
   Installation of telephone ducts to be in conformance with PT&T specs.
2. Do not place pull boxes or splice boxes in driveways or any area subject to vehicular traffic.
3. Provide minimum separation of 3" of concrete or 12" of soil between power duct and telephone duct.
4. △ denotes 1-6'x7' conc. transformer pad with 1-30"x48" primary box (with 1-extension) underneath pad. See specs.
5. K4047 box is 43"x21"x24" deep, K2862 box is 30"x17"x24" deep,
6. Side (long) wall conduit terminations to all telephone service boxes shall terminate adjacent to end (short) wall.

Example:



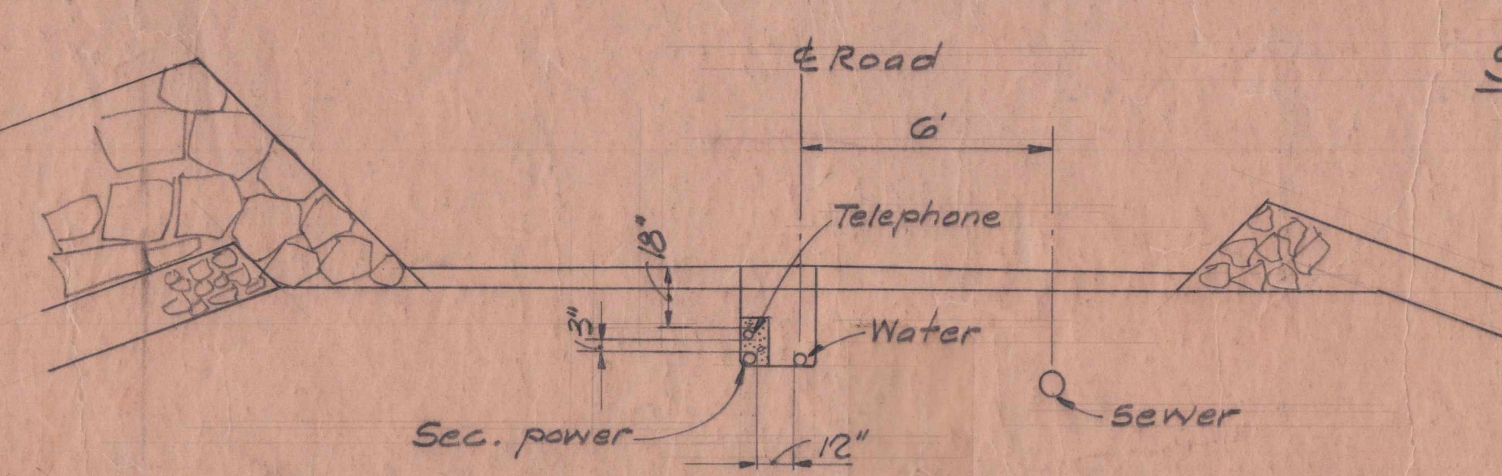
SECTION C-C

Scale: 1/4" = 1'-0"



SECTION B-B

Scale: 1/4" = 1'-0"



SECTION A-A

Scale: 1/4" = 1'-0"

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION
△1	6.9.66	JRK	AS BUILT PLANS

DESIGNED: PG&E, PT&T — TRACED:
DRAWN: EDS — CHECKED: RVB
RECOMMENDED BY: — DATE:
ASST. CITY ENGINEER — NO. — REG. CIVIL ENGR.
APPROVED BY BERKELEY CITY COUNCIL
CITY CLERK — DATE

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

BERKELEY MARINA - PAVING & UTILITIES

UTILITY DUCTS

APPROVED BY: [signature] DIRECTOR OF PUBLIC WORKS — DATE: 7/21/65 — NO.: 9334 REG. CIVIL ENGR.

PLAN NO.: 4016

405-12

SHEET 21 OF 22

AS BUILT

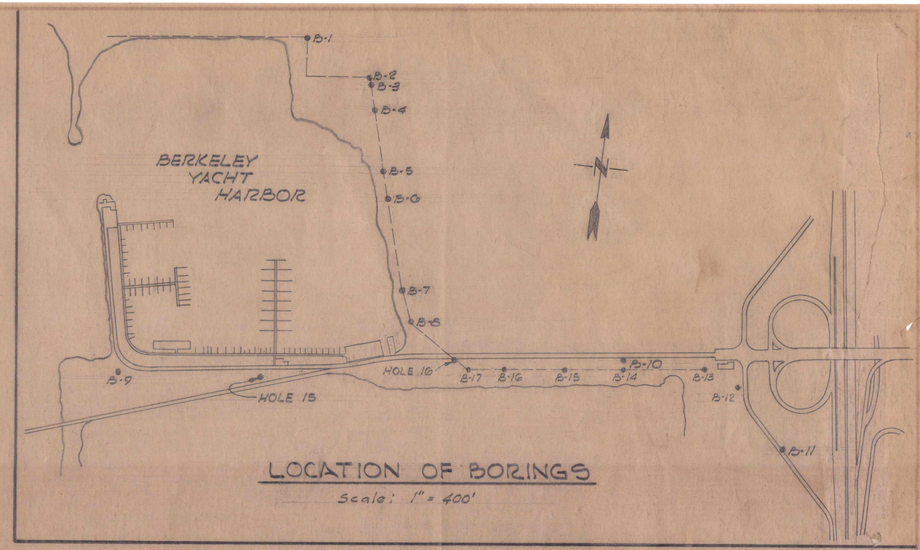
HOLE B-1 ELEV. 9.7
- 0–5: Pavement sand (SW) dry; Sand (SW) some clay moist
- 5–10: Hard fragments of conc.; Clayey sand (SC) moist slightly plastic; Hard, possibly conc. pieces.
- 10–20: Broke auger

HOLE B-2 ELEV. 15.0
- 0–5: Timber conc. pieces and gravely clayey sand dry
- 5–10: Moist wood fragments; glass; Conc. pieces hard
- 10–20: Mud wood fragments some sand (SW) and gravel; Req'd depth

HOLE B-3 ELEV. 15.0
- 0–5: Dry to moist clayey gravelly sand
- 5: Wood fragments
- 5–10: Mud, silty clay satuiated very soft, dark gray to black, organic.
- 10–15: Some Sand
- 15–20: Req'd depth

HOLE B-4 ELEV. 8.4
- 0–5: Large conc. pieces, grass wood fragments
- 10: Wood fragments
- 10–15: Fat clay (CH) wet, soft
- 15–20: Req'd depth

HOLE B-13 ELEV. 6.3
- 0–5: Well graded gravel (GW); Well graded sand & gravel with large rock fragments, slag dark gray, moist (SW to GW); Becoming clayey, no fragments
- 5–10: Stiff clay (CH) moist bluish gray to light gray; Saturated clay (CH); Wood fragments, wire, rocks
- 10–15: Sandy clay (CL) to sand (SC) with shell fragments
- 15–20: Stiff clay (CH) greenish gray, shell fragments



LOCATION OF BORINGS

Scale: 1" = 400'

HOLE B-5 ELEV. 8.0
- 0–5: Gravelly sand, tin cans, dry, firm
- 5–10: Clayey sand (SC-CL) wet garbage, wire, tin cans, paper, soft; Clayey sand (SC-CL) less garbage & debris; Fill
- 10–15: Stiffer (CH) with a few gravel fragments; No garbage; Greenish gray clay, some sand, a few shell fragments
- 15–20: Req'd depth

HOLE B-6 ELEV. 9.0
- 0–5: Sand (SW) tin cans & debris, some gravel, dry; Limit of garbage; Moist sandy clay (CH) to (MH)
- 5–10: Sand (SP) soft, moist; Sandy clay, soft, wet; Clay (CL) very soft; Silty clay, mud, saturated
- 10–15: Sandy clay, shell fragments; Silty clay, mud
- 15–20: Req'd depth

HOLE B-7 ELEV. 10.0
- 0–5: Gravelly, sandy clay with garbage; Bottom of garbage; Silty clay, very soft, saturated
- 5–10: Mud, clay, slightly stiffer
- 10–15: Req'd depth

HOLE B-8 ELEV. 10.0
- 0–5: Pavement, gravel (GW); Garbage, debris; Hard to auger
- 5–10: Mud, garbage, soft
- 10–15: Saturated sandy clay (CL)
- 15–20: Req'd depth

HOLE B-14 ELEV. 6.8
- 0–5: Sandy gravel (GS) moist, loose concrete fragments to 6"; Clay sandy (CL) some rocks to 4", moist.; Garbage, glass, wire; Sand & sandy clay (SC-CL) moist, loose
- 5–10: Hard to auger; Sandy clay, saturated, dark gray
- 10–15: Soft mud, sandy (CL) saturated, a few shell fragments dark grayish black
- 15–20:

HOLE B-15 ELEV. 8.4
- 0–5: Sandy gravelly clay, moist, a few rocks & conc. fragments up to 6"; Clayey, less gravel; Rock fragments
- 5–10: Easy augering, gravelly clay (GL), soft, brown gravel up to 1"; Clay containing debris of glass, wire, bones, very loose wet.
- 10–15: Less garbage, more clay; Gravelly sand, a few rocks, loose, wet, some clay.
- 15–20: Fat clay (CH) soft, shell fragments, bluish gray

HOLE B-16 ELEV. 5.6
- 0–5: Clayey sand, a few small gravel fragments, moist loose; Debris of bone, glass, sand loose.; Sandy clay (CL) greenish gray, soft saturated
- 5–10: Rocky; Rocky with sand and small gravel, wet
- 10–15: Sandy clay (CL) very soft shell fragments, bluish gray
- 15–20:

HOLE B-17 ELEV. 5.9
- 0–5: Sandy gravelly clay, some rocks fragments to 6", brown, moist.; Sandy clay, debris of wire, glass, a few rock fragments
- 5–10: Sandy clay (CL) dark gray wet, slightly stiff, some gravel fragments.
- 10–15: Very soft bay mud, silty sand, some clay, contains shell fragments, dark bluish gray.
- 15–20:

HOLE B-9 ELEV. 12.1
- 0–5: Pavement, gravel; Sandy clay, moist; Clay, shell fragments
- 5–10: Clay (CH) med. stiff, saturated; Sandy clay, stiffer
- 10–15: Sandy clay, very soft; Sandy clay (CL)
- 15–20: Req'd depth

HOLE B-10 ELEV.
- 0–5: Gravel (GS, GC) and fill of clay, sand & gravel, moist
- 5–10: Gravelly clay and garbage; Tin cans; Garbage and some gravel and sand, very soft
- 10–15: Mud, black, organic, very soft
- 15–20: Slightly stiffer; Req'd depth

HOLE B-11 ELEV.
- 0–5: Road subbase, gravel, sand (SW-SP); Sand (SP) moist
- 5–10: Sand, saturated, soft with some layers of plastic, fat clay; Easy to auger through
- 10–15:
- 15–20: Req'd depth

HOLE B-12 ELEV. 7.9
- 0–5: Well graded sand (SW) occasional rocks up to 4" moist, brownish gray, loose 0'-18'; Becoming saturated & blue
- 5–10: Water
- 10–15:
- 15–20: Sandy clay, bluish gray, shell fragments saturated, cohesive & slightly stiff

HOLE 15 ELEV. 11.2
- 0–5: Med. dense, moist brown clayey sand with rocks and chunks of concrete
- 5–10: Stiff to meduim stiff wet, brown sandy clay with rocks and chunks of concrete; Fill
- 10–15: Water; Med. stiff, brown & blue-gray sandy clay with shells.
- 15–20: Soft, gray very sandy clay with shells
- 20–25: Med. dense green clayey fine sand
- 25–30: Dense, yellow brown fine sand
- 30–35: Very stiff, tan silty sandy clay
- 35–40: Very stiff, brown silty clay with fine sand

HOLE 16 ELEV.
- 0–5: Med. dense, damp, yellow-brn. clayey sand & rocks.; Loose, damp black sand w/tin cans; Loose, wet, black clayey sand w/rocks, tin cans, glass; Med. stiff wet, gray-black sandy clay with rocks
- 5–10: Water; Stiff black & gray sandy clay w/rocks.; Med. dense, black clayey sand with rocks & wood
- 10–15: Stiff black sandy clay with rocks; Fill
- 15–20: Med. stiff, gray sandy clay with shells
- 20–25: Med. dense, gray-green clayey fine sand.
- 25–30: Very stiff, brown silty clay

NOTE:

1. SOIL DATA SHOWN ON THIS DRAWING HAS BEEN MADE AVAILABLE SOLELY FOR THE CONVENIENCE OF BIDDERS AND IS FOR STUDY ONLY. THOSE WHO OBTAINED THE DATA, THE ENGINEERS, OR THE CITY OF BERKELEY, DO NOT ASSUME ANY RESPONSIBILITY WHATEVER WITH RESPECT TO THE INTERPRETATION OF THE DATA, OR GUARANTEE EITHER EXPRESSLY OR BY IMPLICATION THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OR THOSE EXISTING THROUGHOUT THE WORK OR ANY PART OF IT OR THAT UNANTICIPATED CONDITIONS MAY NOT DEVELOP.
2. ELEVATIONS REFER TO CITY OF BERKELEY DATUM.
3. BORINGS WERE MADE BY WOODWARD-CLYDE-SHERARD ASSOCIATES WITH AUGER EQUIPMENT.

AS BUILT

JOHN A. BLUME AND ASSOCIATES, ENGINEERS
612 HOWARD STREET SAN FRANCISCO

REVISIONS			
MARK	DATE	BY	DESCRIPTION

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS
BERKELEY MARINA - PAVING & UTILITIES

SOIL INFORMATION

DESIGNED	6/4/65 R.V.B.	AS BUILT PLAN	
DRAWN	FMG	TRACED	
CHECKED	E.S.	R.V.B. 7/21/65	
RECOMMENDED	Wm J. Dabel	9078	7/21/65
APPROVED BY BERKELEY CITY COUNCIL			9334
CITY CLERK			4016
SCALE	AS NOTED	2 July 65	405-12
			22 22