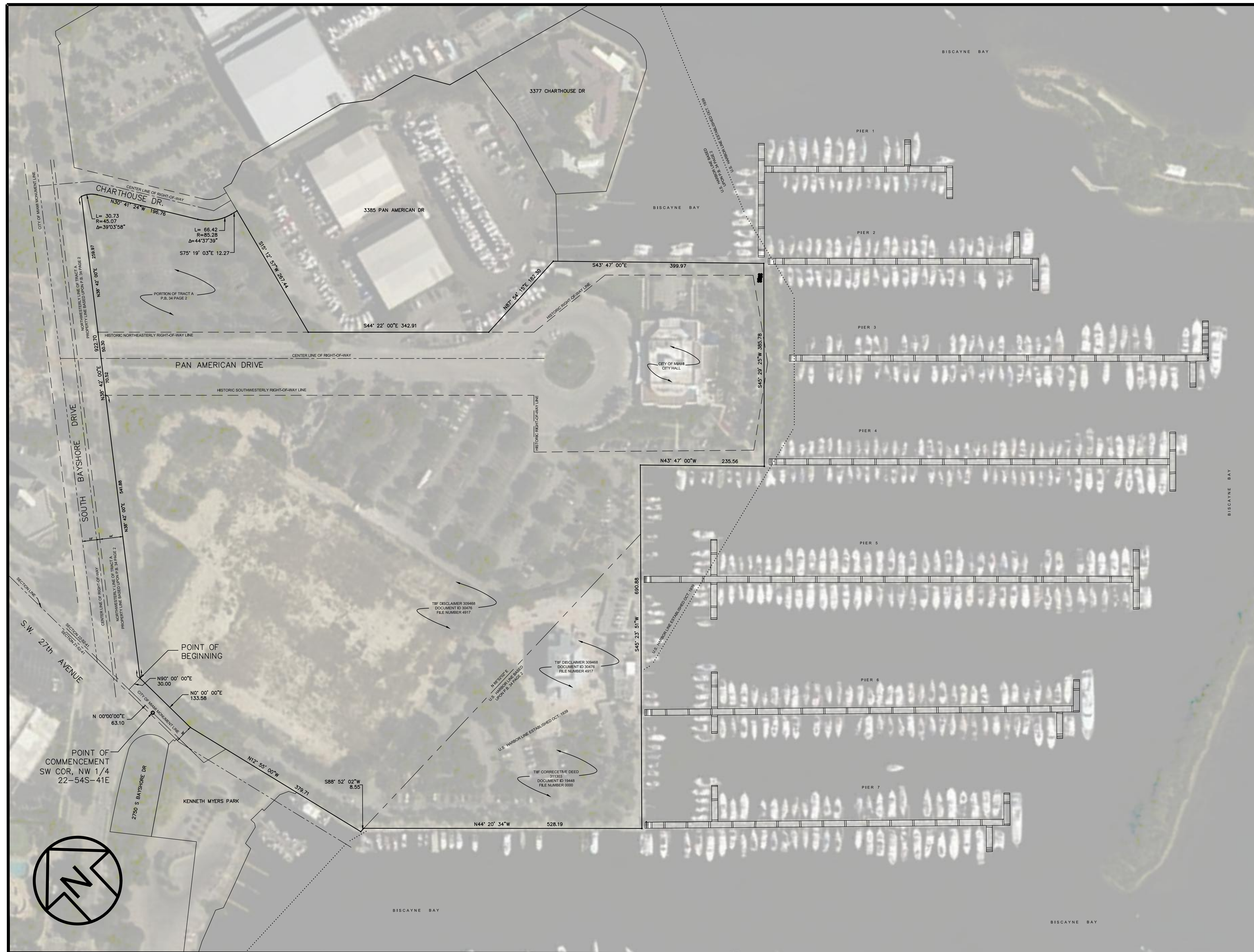
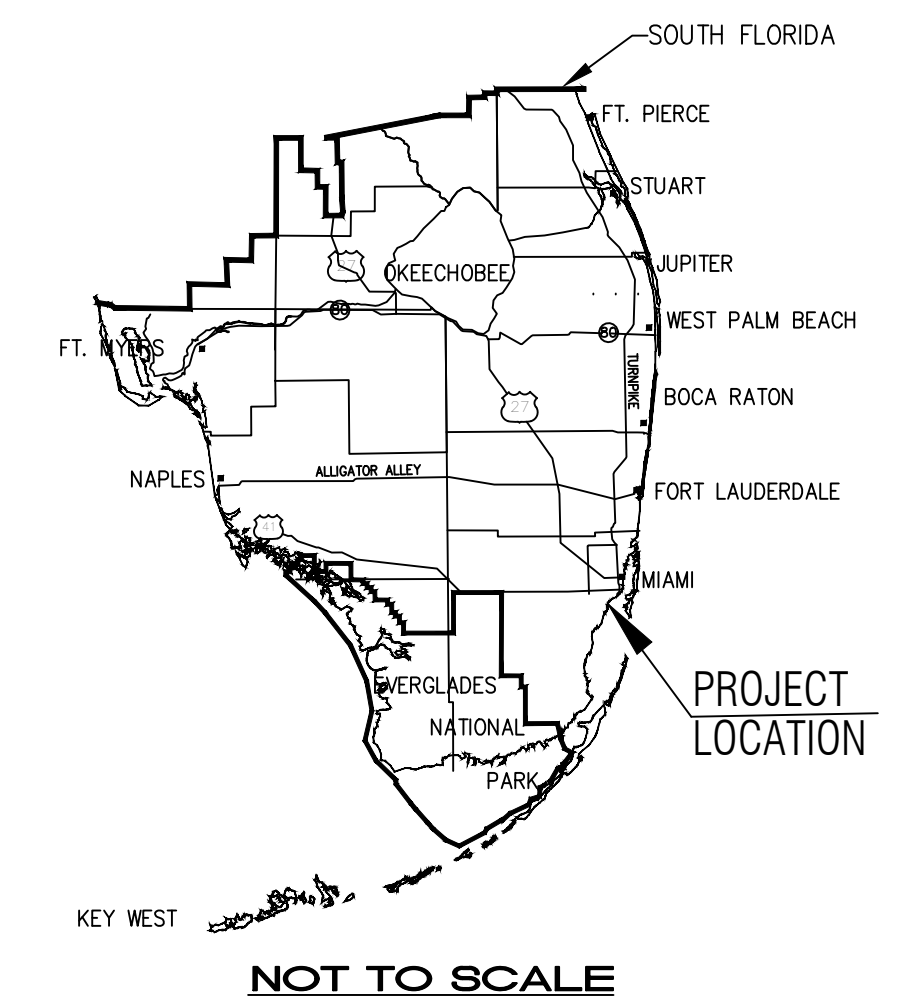


SPECIFIC PURPOSE SURVEY

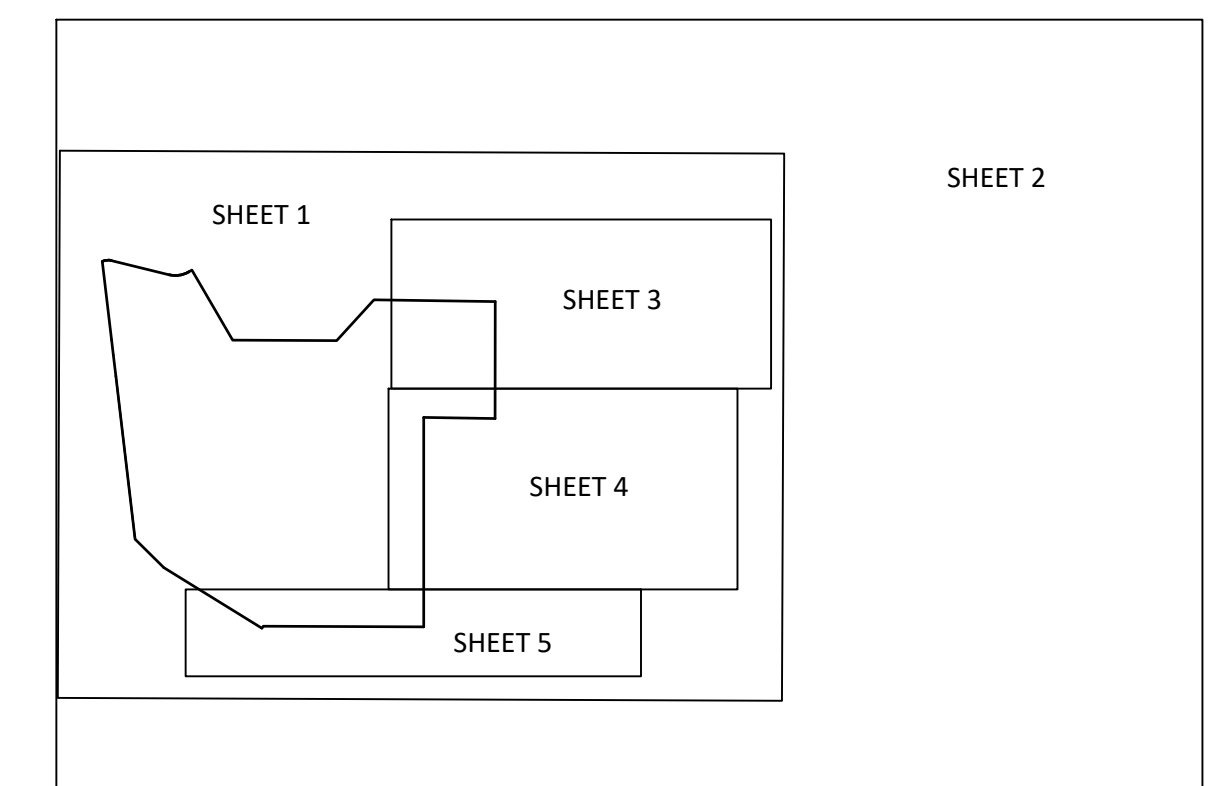
UPLAND BOUNDARY



LOCATION SKETCH



SHEET KEY

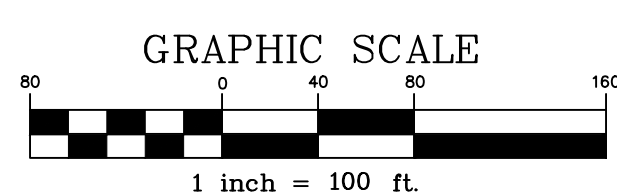


LEGAL DESCRIPTION (UPLAND):

COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF SECTION 22, TOWNSHIP 54 SOUTH, RANGE 41 EAST, MIAMI DADE COUNTY, FLORIDA; THENCE NORTH 00°00'00" EAST ALONG SAID SECTION LINE FOR 63.10 FEET TO A POINT; THENCE NORTH 90°00'00" EAST FOR 30.00 FEET TO THE POINT OF BEGINNING OF THE FOLLOWING DESCRIBED PARCEL OF LAND:

THENCE NORTH 38°42'00" EAST ALONG A LINE PARALLEL WITH AND 44.00 FEET SOUTHWESTERLY OF, AS MEASURED AT RIGHT ANGLES TO THE NORTHWESTERLY LINE OF "TRACT A" DINNER KEY, AS RECORDED IN PLAT BOOK 34, AT PAGE 2, OF THE PUBLIC RECORDS OF MIAMI DADE COUNTY, FLORIDA, FOR 922.70 FEET TO A POINT ON THE NEXT DESCRIBED CURVE, SAID POINT BEARING NORTH 20°14'38" EAST FROM THE RADIUS POINT OF SAID CURVE; THENCE SOUTH AND SOUTHEASTERLY ALONG A CIRCULAR CURVE TO THE RIGHT, CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 45.07 FEET AND A CENTRAL ANGLE OF 39°03'58" FOR AN ARC DISTANCE OF 30.73 FEET TO A POINT OF TANGENCY; THENCE SOUTH 30°41'24" EAST ALONG THE EASTERLY LINE OF SAID "TRACT A" DINNER KEY, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 34, AT PAGE 2 OF THE PUBLIC RECORDS OF MIAMI DADE COUNTY, FLORIDA FOR 196.76 FEET TO A POINT OF CURVATURE; THENCE SOUTHEASTERLY ALONG A CIRCULAR CURVE TO THE LEFT, CONCAVE TO THE NORTHEAST, HAVING A RADIUS OF 85.28 FEET AND A CENTRAL ANGLE OF 44°37'39" FOR AN ARC DISTANCE OF 66.42 FEET TO POINT OF TANGENCY; THENCE SOUTH 75°19'03" EAST FOR 12.27 FEET; THENCE SOUTH 15°12'57" WEST FOR 267.44 FEET; THENCE SOUTH 44°22'00" EAST FOR 342.91 FEET; THENCE NORTH 87°54'15" EAST FOR 182.30 FEET; THENCE SOUTH 43°47'00" EAST FOR 399.97 FEET; THENCE SOUTH 45°29'25" WEST FOR 385.78 FEET; THENCE NORTH 43°47'00" WEST FOR 235.56 FEET; THENCE SOUTH 45°23'51" WEST FOR 690.88 FEET; THENCE NORTH 44°20'34" WEST FOR 528.19 FEET; THENCE SOUTH 88°52'02" WEST FOR 8.55 FEET; THENCE NORTH 12°55'00" WEST FOR 379.71 FEET; THENCE NORTH 00°00'00" EAST FOR 133.58 FEET TO THE POINT OF BEGINNING. CONTAINING 24.64 ACRES, MORE OR LESS.

THERE MAY BE ADDITIONAL RESTRICTIONS AND DEDICATIONS THAT ARE NOT SHOWN ON THIS SURVEY AND MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.



SURVEYORS CERTIFICATION; I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE ATTACHED "SPECIFIC PURPOSE SURVEY" IS TRUE AND CORRECT. I FURTHER CERTIFY THAT THIS SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, SET FORTH IN CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027 OF THE FLORIDA STATUTES.

SURVEYOR'S NOTES:

1. THIS IS A SPECIFIC PURPOSE SURVEY.
2. THE PURPOSE OF THIS SURVEY IS TO UPDATE EXISTING SITE TOPOGRAPHY, DISPLAY THE BOUNDARY OF DINNER KEY MARINA AND THE ADJACENT SUBMERGED LAND LEASE AND LOCATE THE ABOVE GROUND UTILITIES ON THE PIERS AND ADJACENT UPLANDS OF DINNER KEY MARINA.
3. THIS IS NOT A BOUNDARY SURVEY.
4. THE HORIZONTAL DATUM FOR THE PROJECT IS THE NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD83/2011), FLORIDA EAST ZONE 0901.
5. THE VERTICAL DATUM FOR THE PROJECT IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
6. ALL DISTANCES SHOWN HERON ARE IN US SURVEY FEET.
7. THE BASIS OF BEARING IS THE CITY OF MIAMI MONUMENT LINE OF SOUTH BAYSHORE DRIVE, HAVING A PUBLISHED BEARING OF N38°42'00"E. ALL BEARINGS ARE RELATIVE THERE TO.
8. BEARING CONVERSIONS TO NAD83/2011 GRID BEARINGS CAN BE MADE BY SUBTRACTING 2°24'42" FROM THE BEARINGS SHOWN HERON.
9. BOUNDARY LINES DISPLAYED HERON ARE FOR INFORMATIONAL PURPOSES ONLY.
10. OWNERSHIP IS SUBJECT TO OPINION OF TITLE.
11. RECORD SEARCHES BY THIS OFFICE HAVE BEEN LIMITED TO THE PUBLIC RECORDS OF, MIAMI-DADE COUNTY, AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. RECORD SEARCHES DO NOT EXCEED 20 YEARS AND ARE NOT CONSIDERED EXHAUSTIVE AND/OR COMPREHENSIVE.
12. THERE MAY BE ADDITIONAL RESTRICTIONS AND DEDICATIONS THAT ARE NOT SHOWN ON THIS SURVEY AND MAYBE FOUND IN THE PUBLIC RECORDS OF MIAMI-DADE COUNTY.
13. AERIAL IMAGERY FROM MICROSOFT BING DATED 2018

TIMOTHY M. MAYER, PSM
License #7022

CLIENT
Moffatt & Nichol
2937 SW 27th AVENUE
Suite 101A
Coconut Grove, Florida 33133

Olin Hydrographic Solutions, inc.
2900 Calusa St, Miami, Florida, 33133
Consulting Engineering, Surveying & Mapping, and Environmental Services
Phone: (305) 619-2800 Fax: (305) 860-4411 LB # 7999 CA # 26050

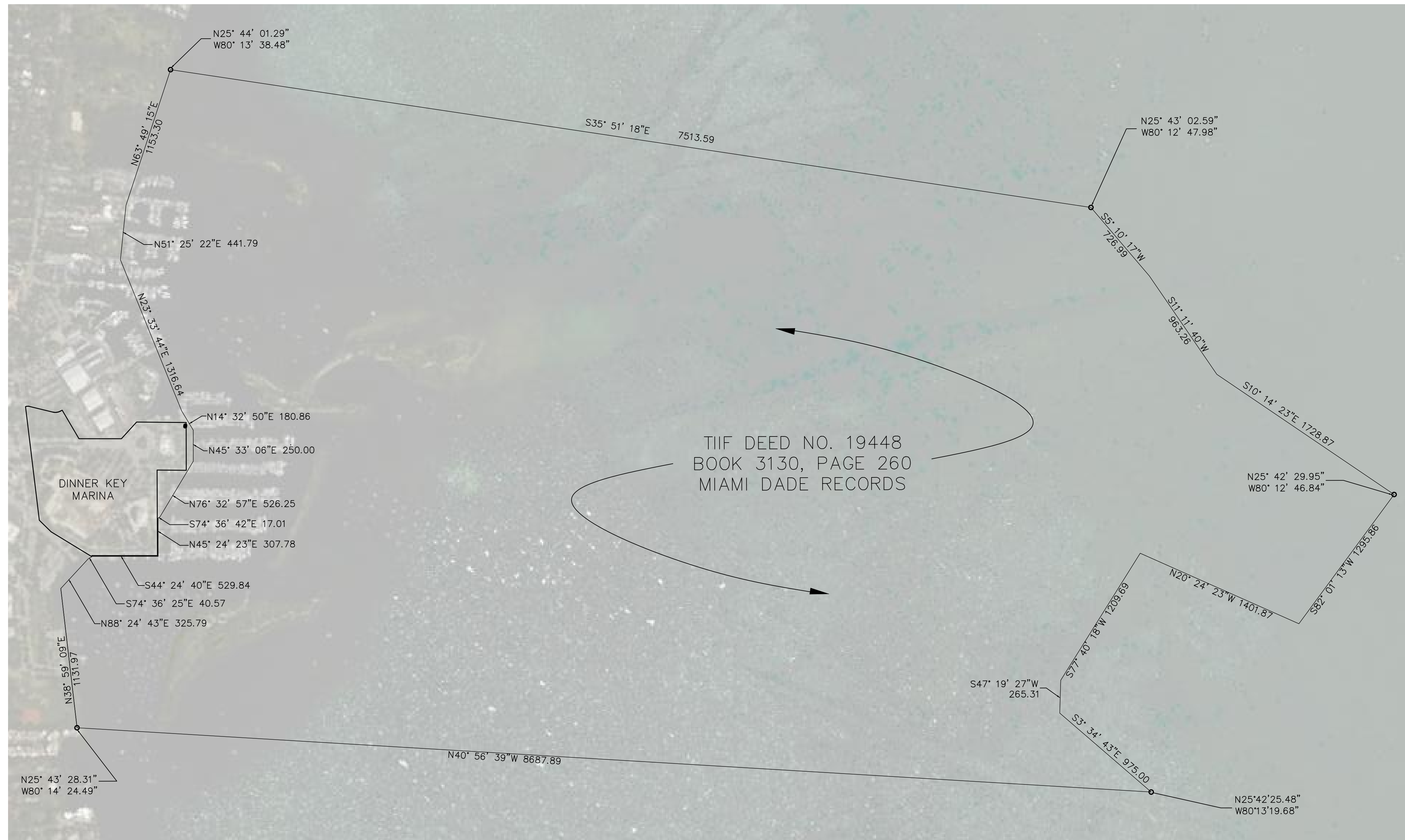
PROJECT DINNER KEY MARINA

SURVEY TITLE SPECIFIC PURPOSE

DRAWING DATE: 8-16-18	OHS JOB NO.: 19-028	SCALE: As Shown
REV DATE:	USAGE JOB NO.: N/A	
DRAWN BY: T. Mayer	APPROVED BY: D. Olin	PAGE 1 OF 5

SPECIFIC PURPOSE SURVEY

SUBMERGED LAND



LEGAL DESCRIPTION (SUBMERGED LAND) :

ALL THAT SUBMERGED AND PARTIALLY SUBMERGED LAND IN SECTIONS 21, AND 22, 23, 26, 27, AND 35, TOWNSHIP 54 SOUTH, RANGE 41 EAST, DESCRIBED AS FOLLOWS:

BOUNDED ON THE NORTHWEST BY THE UNITED STATES PIER-HEAD AND BULKHEAD LIS AS ESTABLISHED ALONG THE WESTERLY SIDE OF BISCAYNE BAY;

BOUNDED ON THE NORTHEAST BY THE SOUTHEASTERLY PRODUCTION OF THE NORTHEASTERLY RIGHT OF WAY LINE OF KIRK STREET;

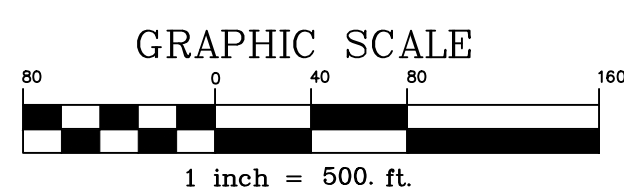
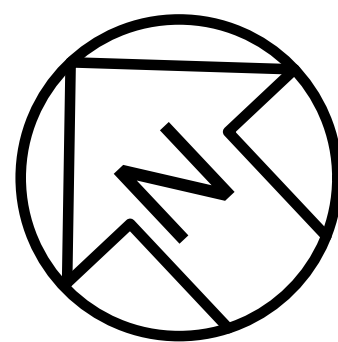
BOUNDED ON THE SOUTHWEST BY THE SOUTHEASTERLY PRODUCTION OF THE SOUTHWESTERLY BOUNDARY OF THAT TRACT OF LAND MARKED "JOHN H. HOPKINS LOT, LAKE PLACID SCHOOL", ACCORDING TO THE PLAT OF THE JOHN a. HOPKINS LAKE PLACID SCHOOL PROPERTY, AS RECORDED IN PLAT BOOK 6 AT PAGE 152, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA

BOUNDED ON THE SOUTHEAST BY THAT LAND WHICH IS CONSISTENTLY MORE THAN 6 FEET BELOW THE MEAN-LOW WATER SURFACE OF BISCAYNE BAY.

NOTE: WORLD GEODETIC SYSTEM OF 1984 LATITUDE AND LONGITUDE COORDINATES SHOWN HEREON ARE FROM CLIENT PROVIDED DOCUMENT TITLED "DINNER KEY MOORING FIELD.PDF". BEARINGS AND DISTANCES ARE RELATIVE TO THE COORDINATES SHOWN ON SAID DOCUMENT AND REFERENCED TO THE BASIS OF BEARING OF THIS SURVEY

TIIF DEED NO. 19448
BOOK 3130, PAGE 260
MIAMI DADE RECORDS

NOTE: WORLD GEODETIC SYSTEM OF 1984 LATITUDE AND LONGITUDE COORDINATES SHOWN HEREON ARE FROM CLIENT PROVIDED DOCUMENT TITLED "DINNER KEY MOORING FIELD.PDF". BEARINGS AND DISTANCES ARE RELATIVE TO THE COORDINATES SHOWN ON SAID DOCUMENT AND REFERENCED TO THE BASIS OF BEARING OF THIS SURVEY



CLIENT

Moffatt & Nichol
2937 SW 27th AVENUE
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Olin Hydrographic Solutions, inc.
2900 Calusa St, Miami, Florida, 33133

Consulting Engineering, Surveying & Mapping, and Environmental Services
Phone: (305) 619-2800 Fax: (305) 860-4411 LB # 7999 CA # 26050

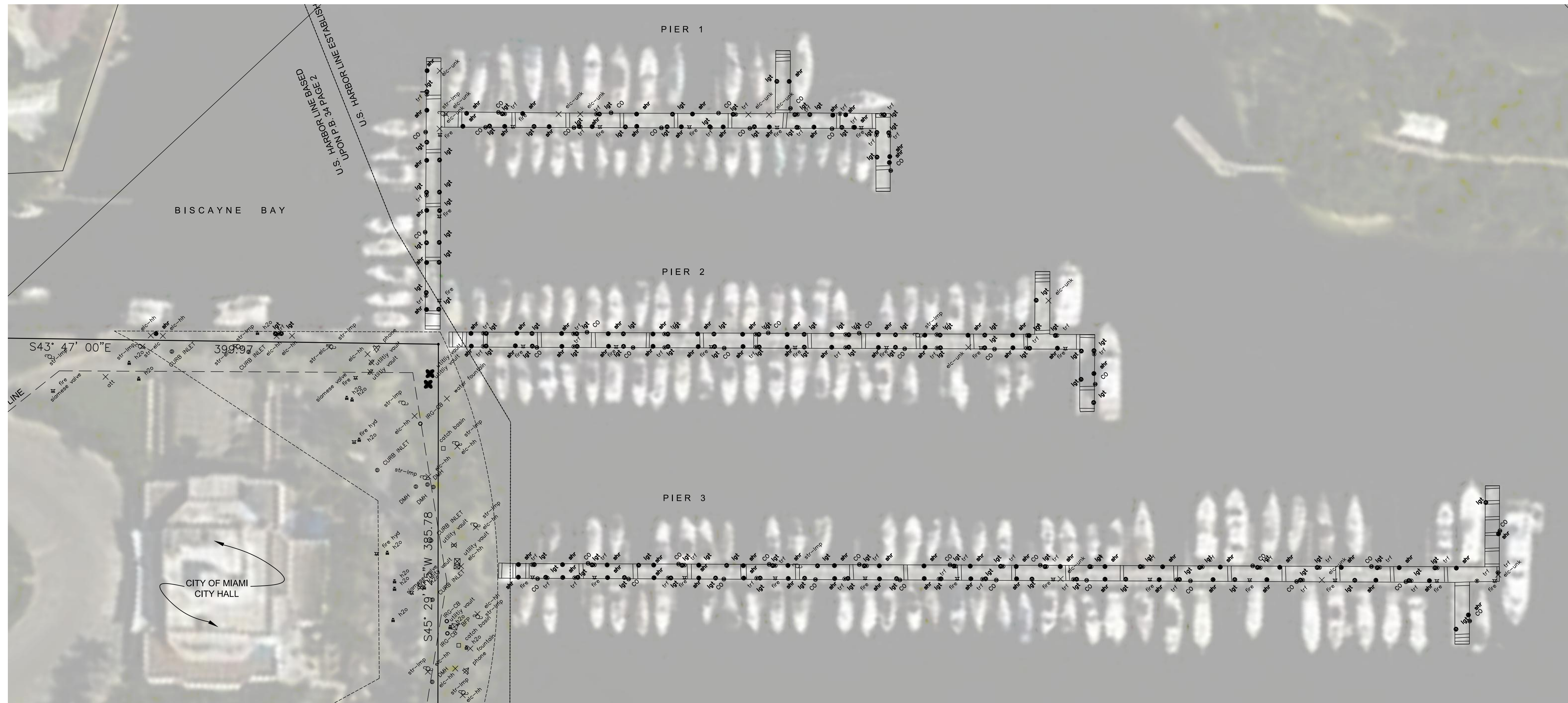
PROJECT DINNER KEY MARINA

SURVEY TITLE SPECIFIC PURPOSE

DRAWING DATE: 8-16-18	OHS JOB NO.: 18-028	SCALE: As Shown
REV DATE:	USAGE JOB NO: N/A	
DRAWN BY: T. Mayer	APPROVED BY: D. Olin	PAGE 2 OF 5

SPECIFIC PURPOSE SURVEY

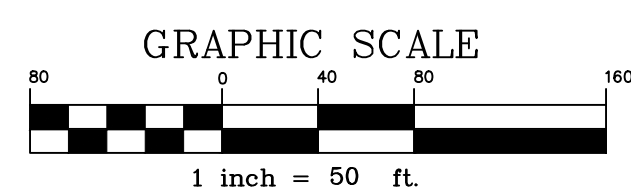
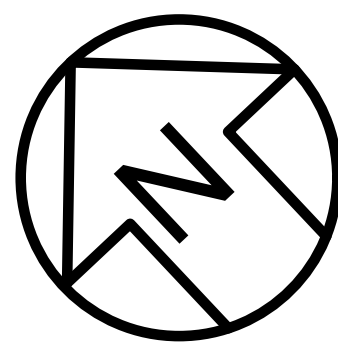
UTILITY SURVEY



MATCH LINE SHEET 4

LEGEND

- ⊗ = WATER VALVE TYP. 6"
- ✕ elc-hh = ELECTRICAL HAND HOLE
- ☉ str-imp = STREET LIGHT
- ⊗ fire = FIRE SERVICE
- ⊗ trf = ELECTRICAL TRANSFORMER
- ⊗ lgt = LIGHT PEDESTAL TYP. 1'X1'
- ⊗ shr = SHORE UTILITY SERVICE PEDESTAL TYP. 1'X1'
- ✕ str-elc = STREET LIGHT HAND HOLE
- ⊗ ped-lp = PEDESTRIAN LIGHT PEDESTAL
- ⊗ CO = SANITARY CLEAN OUT
- ✕ elc-unk = UNKNOWN OR DAMAGED ELECTRICAL SERVICE
- ⊗ DMH = DRAINAGE MANHOLE
- ⊗ IRG-CB = IRRIGATION CONTROL BOX
- ⊗ gnd-lt = GROUND LIGHT



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PROJECT DINNER KEY MARINA

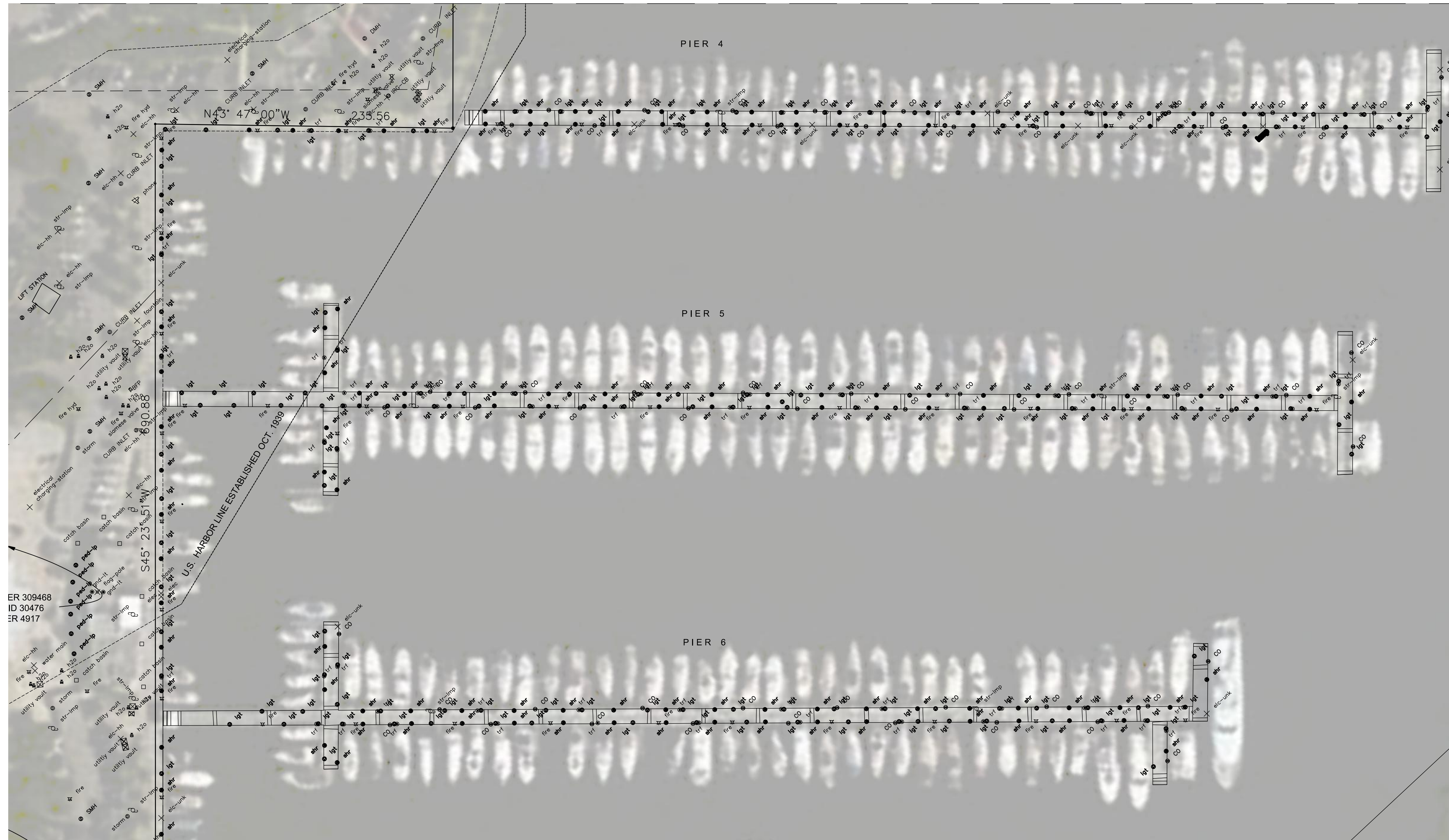
SURVEY TITLE SPECIFIC PURPOSE

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REV DATE:	USACE JOB NO.: N/A	
DRAWN BY: T. Mayer	APPROVED BY: D. Olin	PAGE 3 OF 5

SPECIFIC PURPOSE SURVEY

UTILITY SURVEY

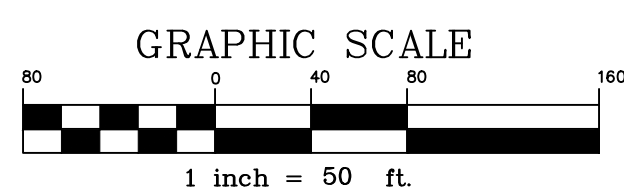
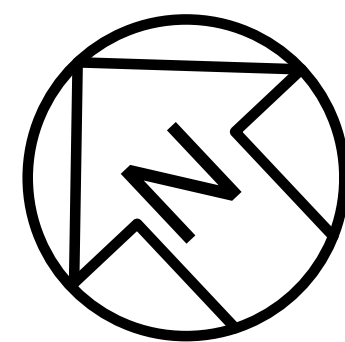
MATCH LINE SHEET 3



MATCH LINE SHEET 5

LEGEND

- WV = WATER VALVE TYP. 6"
- X elc-hh = ELECTRICAL HAND HOLE
- ☉ str-lmp = STREET LIGHT
- ⚡ fire = FIRE SERVICE
- ⊕ trf = ELECTRICAL TRANSFORMER
- ⊕ lgt = LIGHT PEDESTAL TYP. 1'X1'
- ⊕ shr = SHORE UTILITY SERVICE PEDESTAL TYP. 1'X1'
- X str-elc = STREET LIGHT HAND HOLE
- ⊕ ped-lp = PEDESTRIAN LIGHT PEDESTAL
- ⊕ CO = SANITARY CLEAN OUT
- X elc-unk = UNKNOWN OR DAMAGED ELECTRICAL SERVICE
- ⊕ DMH = DRAINAGE MANHOLE
- ⊕ IIRG-CB = IRRIGATION CONTROL BOX
- ⊕ gnd-lt = GROUND LIGHT



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PROJECT DINNER KEY MARINA

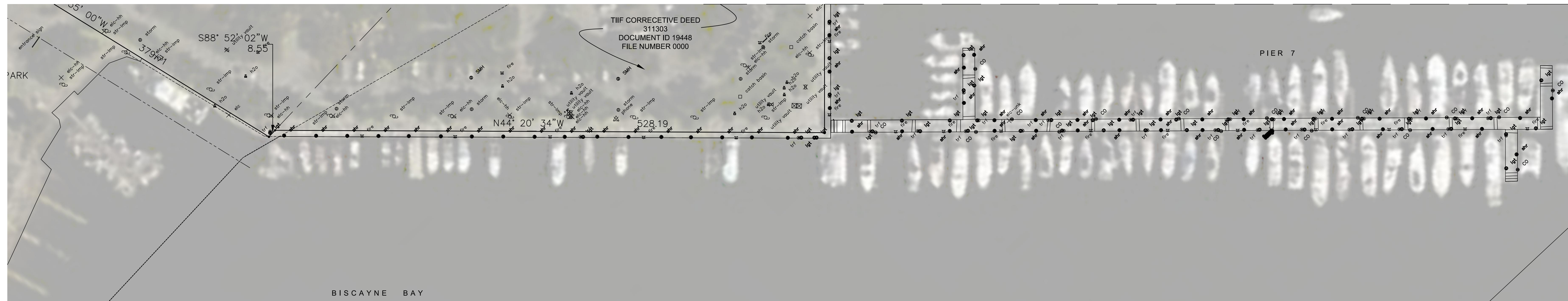
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DRAWING DATE: 8-16-18	OHS JOB NO.: 19-028	SCALE: As Shown
REV DATE:	USACE JOB NO.: N/A	
DRAWN BY: T. Mayer	APPROVED BY: D. Olin	PAGE 4 OF 5

SPECIFIC PURPOSE SURVEY

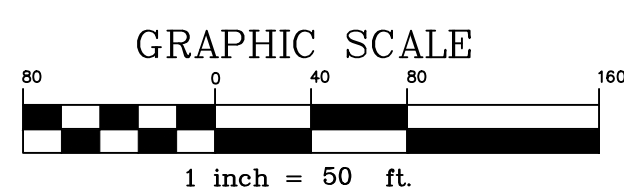
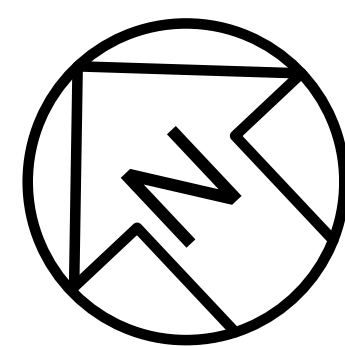
UTILITY SURVEY

MATCH LINE SHEET 4



LEGEND

- ⊗ = WATER VALVE TYP. 6"
- ✕ elc-hh = ELECTRICAL HAND HOLE
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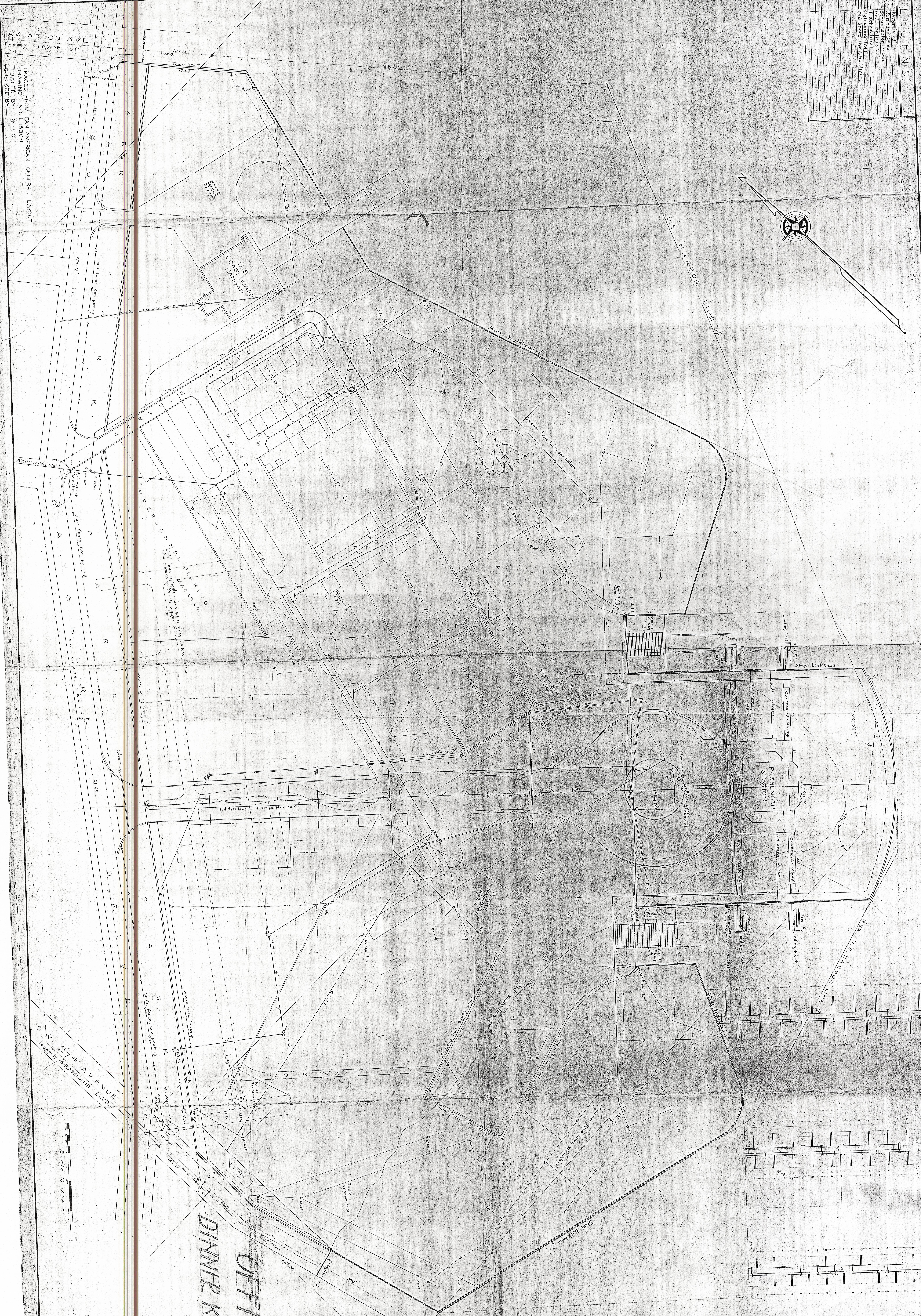
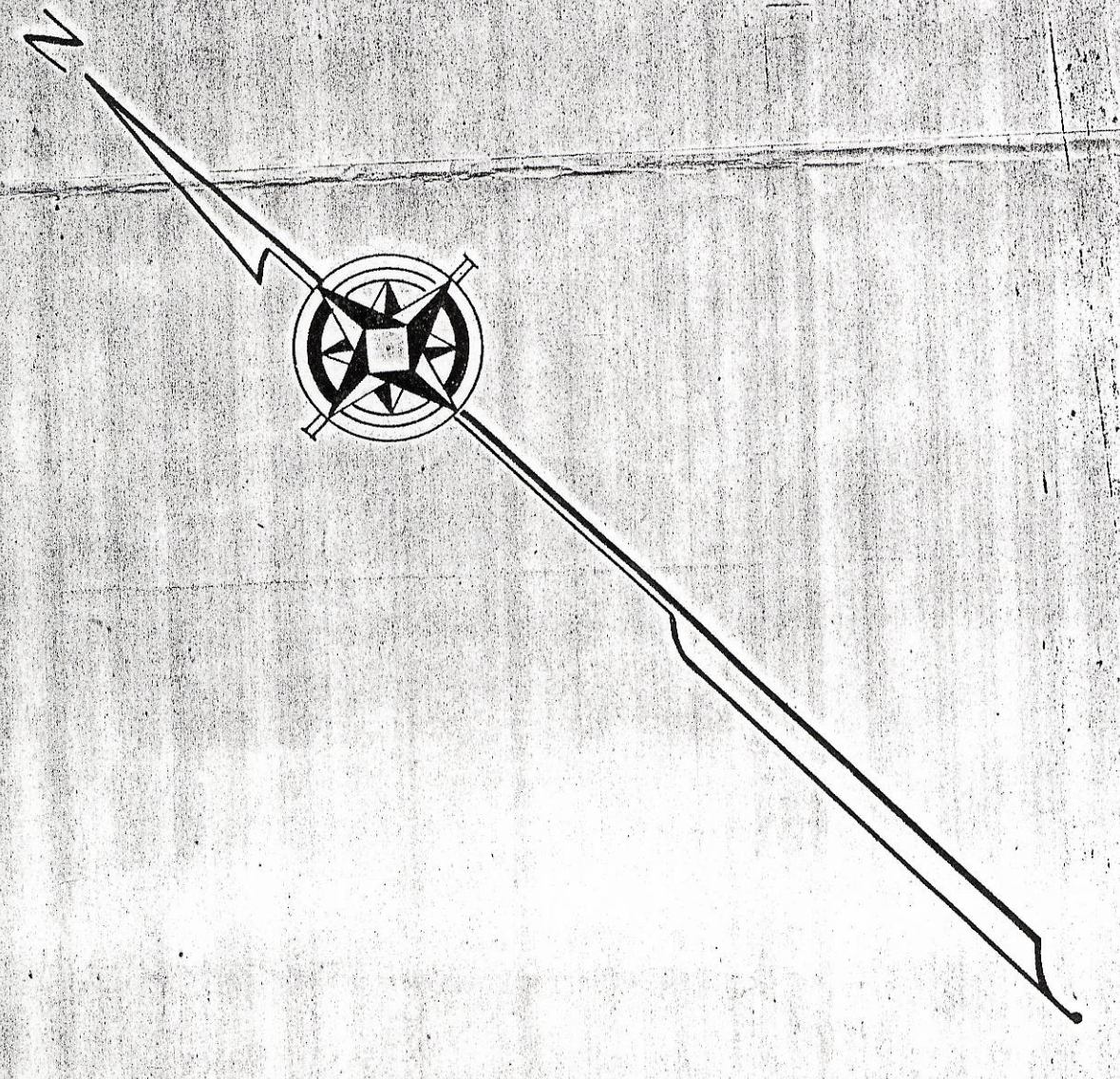
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PROJECT DINNER KEY MARINA

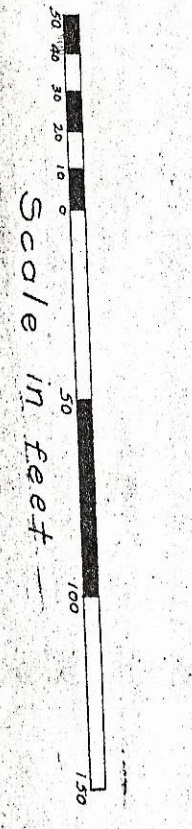
SURVEY TITLE SPECIFIC PURPOSE

DRAWING DATE: 8-16-18	OHS JOB NO.: 19-028	SCALE: As Shown
REV DATE:	USACE JOB NO.: N/A	
DRAWN BY: T. Mayer	APPROVED BY: D. Olin	PAGE 5 OF 5

LEGEND	
Water lines	—
Street lines	—
Gasoline lines	—
Electric lines	—
Old Shore line & buildings	—



TRACED FROM PAN-AMERICAN GENERAL LAYOUT
 DRAWING NO. L-1530-1
 TRACED BY W.H.C.
 CHECKED BY



OFFICE COPY
DINNER KEY AIR BASE.

CITY OF MIAMI, FLORIDA
 DEPARTMENT OF ENGINEERING
 UNDERGROUND RECORD
 DINNER KEY
 SCALE 1"=50'
 AUG 29 1946



1100 30-27

BAY

BISSAYA NORTH



UNDERGROUND LEGEND.

FIRE MAIN & DOMESTIC WATER LINES.
ELECTRIC POWER LINES.
TELEPHONE LINES.
SANITARY SEWER LINES.
STORM SEWER.

NOTE
General layout of sewer lines showing existing and proposed lines. This plan is for information only and does not constitute a contract.

CITY OF MIAMI FLORIDA
DEPARTMENT OF ENGINEERING
MARINA PROJECT
SURVEY OF
DINNER KEY

SCALE: 1" = 50' — DATE: 3-24-50 — DWG. NO. 38-5713 of 3

REVISIONS:
REVISED BY: M. C. NIMMER
DATE: 11-28-50
REASON: New building floor plan for Reception Building.
REVISED BY: M. C. NIMMER
DATE: 12-30-50
REASON: Additions to sewer lines for Reception Building.

NOTICE!
MISC. U.S. ELLI TO BE
MISC. U.S. F. THIS AREA
MISC. U.S. THIS AREA
MISC. U.S. THIS AREA
MISC. U.S. THIS AREA

SEWER BANKS
Sewer Bank 1
Sewer Bank 2
Sewer Bank 3
Sewer Bank 4
Sewer Bank 5
Sewer Bank 6
Sewer Bank 7
Sewer Bank 8
Sewer Bank 9
Sewer Bank 10

U.S. BANKS
U.S. Bank 1
U.S. Bank 2
U.S. Bank 3
U.S. Bank 4
U.S. Bank 5
U.S. Bank 6
U.S. Bank 7
U.S. Bank 8
U.S. Bank 9
U.S. Bank 10

U.S. BANKS
U.S. Bank 1
U.S. Bank 2
U.S. Bank 3
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U.S. Bank 10

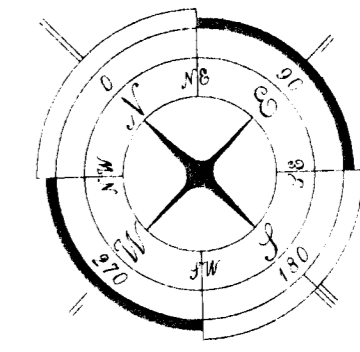
U.S. BANKS
U.S. Bank 1
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U.S. Bank 5
U.S. Bank 6
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U.S. Bank 8
U.S. Bank 9
U.S. Bank 10

U.S. BANKS
U.S. Bank 1
U.S. Bank 2
U.S. Bank 3
U.S. Bank 4
U.S. Bank 5
U.S. Bank 6
U.S. Bank 7
U.S. Bank 8
U.S. Bank 9
U.S. Bank 10

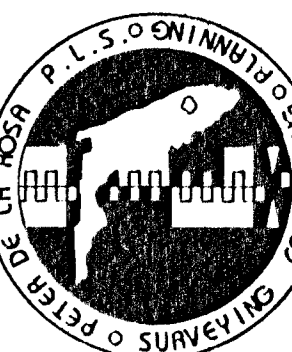
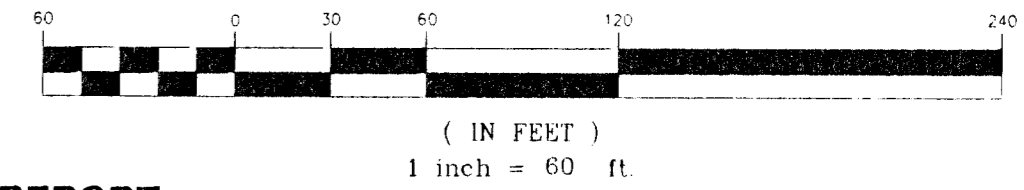
U.S. BANKS
U.S. Bank 1
U.S. Bank 2
U.S. Bank 3
U.S. Bank 4
U.S. Bank 5
U.S. Bank 6
U.S. Bank 7
U.S. Bank 8
U.S. Bank 9
U.S. Bank 10

U.S. BANKS
U.S. Bank 1
U.S. Bank 2
U.S. Bank 3
U.S. Bank 4
U.S. Bank 5
U.S. Bank 6
U.S. Bank 7
U.S. Bank 8
U.S. Bank 9
U.S. Bank 10

SPECIFIC PURPOSE SURVEY LOCATION MAP



GRAPHIC SCALE



PETER DE LA ROSA P L S OF FLORIDA
SURVEYING CONSULTING PLANNING
17000 SW 170th AVENUE MIAMI, FLORIDA 33187
PH: (305) 552-8545 FAX: (305) 256-4971
E-MAIL: PRRANCH@YAHOO.COM
LICENSE BUSINESS NO. 3814

SURVEYOR'S REPORT LAND DESCRIPTION:

Prepared for the one and only SPECIFIC PURPOSE SURVEY of, location of parking areas, utilities, structures, tree locations, elevations and facilities at COCONUT GROVE EXHIBITION CENTER and CITY OF MIAMI, CITY HALL area. Commence at the Southwest corner of the Northwest of Section 22, Township 54 South, Range 41 East, Miami Dade County, Florida; thence North 00°00'00" East (Due North) for 63.10 feet to a point; thence at right angle to the last described course, North 90°00'00" East (Due East) for 30.00 feet to the Point of Beginning of the following described Parcel of Land; thence North 38°42'00" East along a line parallel with and 44.00 feet Southwesterly of, as measured at right angle to the Northwesterly line of "Tract A" DINNER KEY, as recorded in Plat Book 34, at Page 2, of the Public Records of Miami-Dade County, Florida, for 922.70 feet to a point on the next described curve, said point bearing North 20°14'38" East from the radius point of said curve; thence South and Southeasterly along a circular curve to the right, concave to the Southwest, having a radius of 45.07 feet and a central angle of 39°03'58" for an arc distance of 30.73 feet to a Point of Tangency; thence South 3004'24" East along the Easterly Line of said "Tract A" DINNER KEY, according to the plat thereof as recorded in Plat Book 34, at Page 2 of the Public Records of Miami-Dade County, Florida for 196.76 feet to a Point of Curvature; thence Southeasterly along a circular curve to the left, concave to the Northeast, having a radius of 85.28 feet and a central angle of 44°37'39" for an arc distance of 66.42 feet to Point of Tangency; thence South 75°19'03" East for 12.27 feet; thence South 15°12'57" West for 267.44 feet; thence South 44°22'00" East for 342.91 feet; thence North 87°54'15" East for 182.30 feet; thence South 43°47'00" East for 399.97 feet; thence South 45°29'25" West for 385.78 feet; thence North 43°47'00" West for 235.58 feet; thence South 45°23'51" West for 690.88 feet; thence North 44°20'34" West for 528.19 feet; thence South 88°52'02" West for 8.55 feet; thence North 12°55'00" West for 379.71 feet; thence North 00°00'00" East (Due North) for 133.58 feet to the Point of Beginning. Containing 24.64 Acres, more or less.

LEGAL DESCRIPTION FURNISHED BY MIAMI PARKING SYSTEM DATED:03-06-2001
I HEREBY CERTIFY: THAT THE SURVEY OF THE ABOVE CAPTIONED PROPERTY WAS COMPLETED UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-6, FLORIDA, ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, THIS DRAWING SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

THERE MAY BE ADDITIONAL RESTRICTIONS AND DEDICATIONS THAT ARE NOT SHOWN ON THIS SURVEY AND MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.
LEGAL DESCRIPTION FURNISHED BY: OWNER

ACCURACY OF VERTICAL CONTROL (IF ANY)
FIELD MEASUREMENTS CONTROL FOR ELEVATIONS BASED UPON A LEVEL LOOP CLOSED IN FEET.
RELATIVE VERTICAL ACCURACY OF THIS BOUNDARY SURVEY EXCEEDING MINIMUM REQUIREMENT OF 0.05 FEET TIMES SQUARE ROOT OF TOTAL DISTANCE.

ACCURACY OF HORIZONTAL CONTROL
THE FIELD MEASUREMENTS VERIFIED BY CALCULATIONS OF A CLOSED GEOMETRIC FIGURE IN OUR COMPUTER SYSTEM. BASE UPON FIELD INFORMATION TAKEN IN THE FIELD BY TOTAL STATION.
RELATIVE HORIZONTAL DISTANCE ACCURACY FOR THIS BOUNDARY SURVEY EXCEEDS MINIMUM REQUIREMENT OF MINIMUM TECHNICAL STANDARDS (M/T) FOR THIS BOUNDARY SURVEY.

---X--- COMMERCIAL/HIGH RISK LINEAR: 1 FOOT IN 10,000 FEET
---S--- SUBURBAN LINEAR: 1 FOOT IN 7,500 FEET
---R--- RURAL LINEAR: 1 FOOT IN 5,000 FEET

- ### GENERAL NOTES:
- 1) OWNERSHIP IS SUBJECT TO OPINION OF TITLE.
 - 2) LOCATION AND IDENTIFICATION OF UTILITIES ON AND/OR ADJACENT TO THE PROPERTY WERE NOT SECURED AS SUCH INFORMATION WAS NOT REQUESTED.
 - 3) THIS CERTIFICATION IS ONLY FOR THE LANDS AS DESCRIBED. IT IS NOT A CERTIFICATION OF TITLE, ZONING, EASEMENTS, OR FREEDOM FROM ENCUMBRANCES.
 - 4) THE FLORIDA FLOOD INSURANCE RATE MAP, DATED 07-17-1995 PUBLISHED BY THE UNITED STATES DEPARTMENT, OF HOUSING AND URBAN DEVELOPMENT, DE- LINEATES THE HEREIN DESCRIBED LAND TO BE SITUATED WITHIN ZONE AE_7_00.

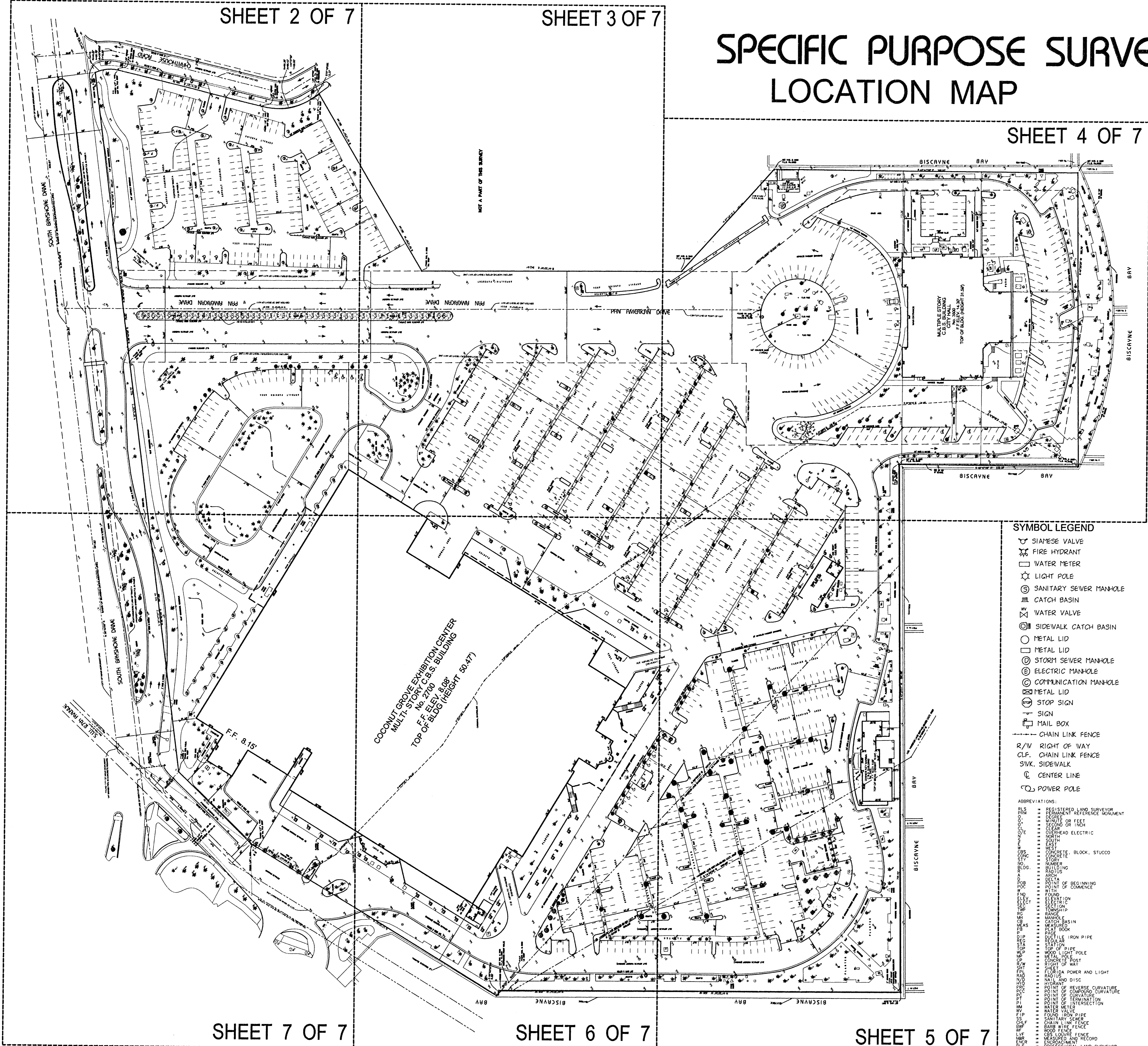
FLOOD INFORMATION:
COMMUNITY NUMBER 120630
PANEL NUMBER 0189
SUFFIX
DATE OF FIRM 03-02-94
FIRM ZONE AE, AE, VE
BASE FLOOD ELEVATION 12.13, 15
DATE FIELD WORK 03-06-2001
DATE DRAFTING 03-12-2001
DATE SIGNED AND SEALED 03-12-2001
UPDATED SURVEY FIELD WORK DATED: 05-12-2009 (RE-SURVEY)
UPDATED SURVEY FIELD WORK DATED: 06/16/2009 (RE-SURVEY)

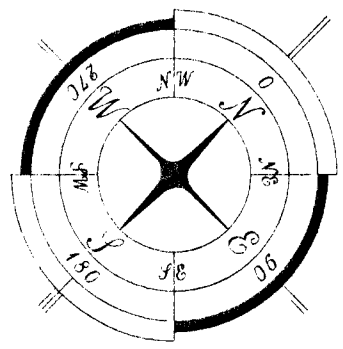
VERTICAL CONTROL:
MIAMI-DADE COUNTY BENCHMARK N.G.V.D 1929
BENCHMARK-1
LOCATOR INDEX: 4133 S.E
NAME: ARBOR SURV
ELEVATION: 5.12
BENCHMARK-2
LOCATOR INDEX: 4123 S.W
NAME: T-800
ELEVATION: 8.77
LEGAL DESCRIPTION FURNISHED BY: MIAMI PARKING SYSTEM DATED:03/06/2001

SYMBOL LEGEND

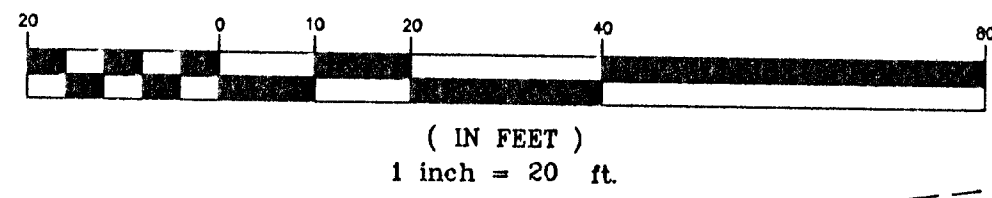
- SYMPHOSE VALVE
- FIRE HYDRANT
- WATER METER
- LIGHT POLE
- SANITARY SEWER MANHOLE
- CATCH BASIN
- WATER VALVE
- SIDEWALK CATCH BASIN
- METAL LID
- METAL LID
- STORM SEWER MANHOLE
- ELECTRIC MANHOLE
- COMMUNICATION MANHOLE
- METAL LID
- STOP SIGN
- SIGN
- MAIL BOX
- CHAIN LINK FENCE
- R/W RIGHT OF WAY
- CLF. CHAIN LINK FENCE
- SWK. SIDEWALK
- C CENTER LINE
- POWER POLE

- ### ABBREVIATIONS:
- RLS REGISTERED LAND SURVEYOR
 - REF REFERENCE POINT
 - DEG DEGREE OR FEET
 - SEC SECOND OR INCH
 - OVH OVERHEAD ELECTRIC
 - EARTH
 - CONC CONCRETE, BLOCK, STUCCO
 - STY STORY
 - BLOG BUILDING
 - ARCH
 - POB POINT OF BEGINNING
 - POE POINT OF END
 - FOUND FOUNDATION
 - ELECT ELECTRIC
 - RANGE RANGE
 - CATCH CATCH BASIN
 - PLAT PLAT BOOK
 - PIPE PIPE
 - DIPPLE DIPPLE IRON PIPE
 - STA STA OF PIPE
 - WLD WOOD LIGHT POLE
 - RES RESURVEY
 - STRT STRIGHT OF WAY
 - FLA FLORIDA POWER AND LIGHT
 - DISC DISC
 - PRC POINT OF REVERSE CURVATURE
 - PCU POINT OF CURVATURE
 - TERM TERMINATION
 - INT INTERSECTION
 - WATER WATER METER
 - FOUND FOUNDATION
 - SHW SHAWTNER
 - CLF CHAIN LINK FENCE
 - SWK SWK. SIDEWALK
 - WLF WOOD FENCE
 - MEAS MEASURED AND RECORD
 - EMR EMBANKMENT
 - PROF PROFESSIONAL SURVEYOR AND MAPPER
 - NO NO IDENTIFICATION NUMBER
 - N/A NOT APPLICABLE

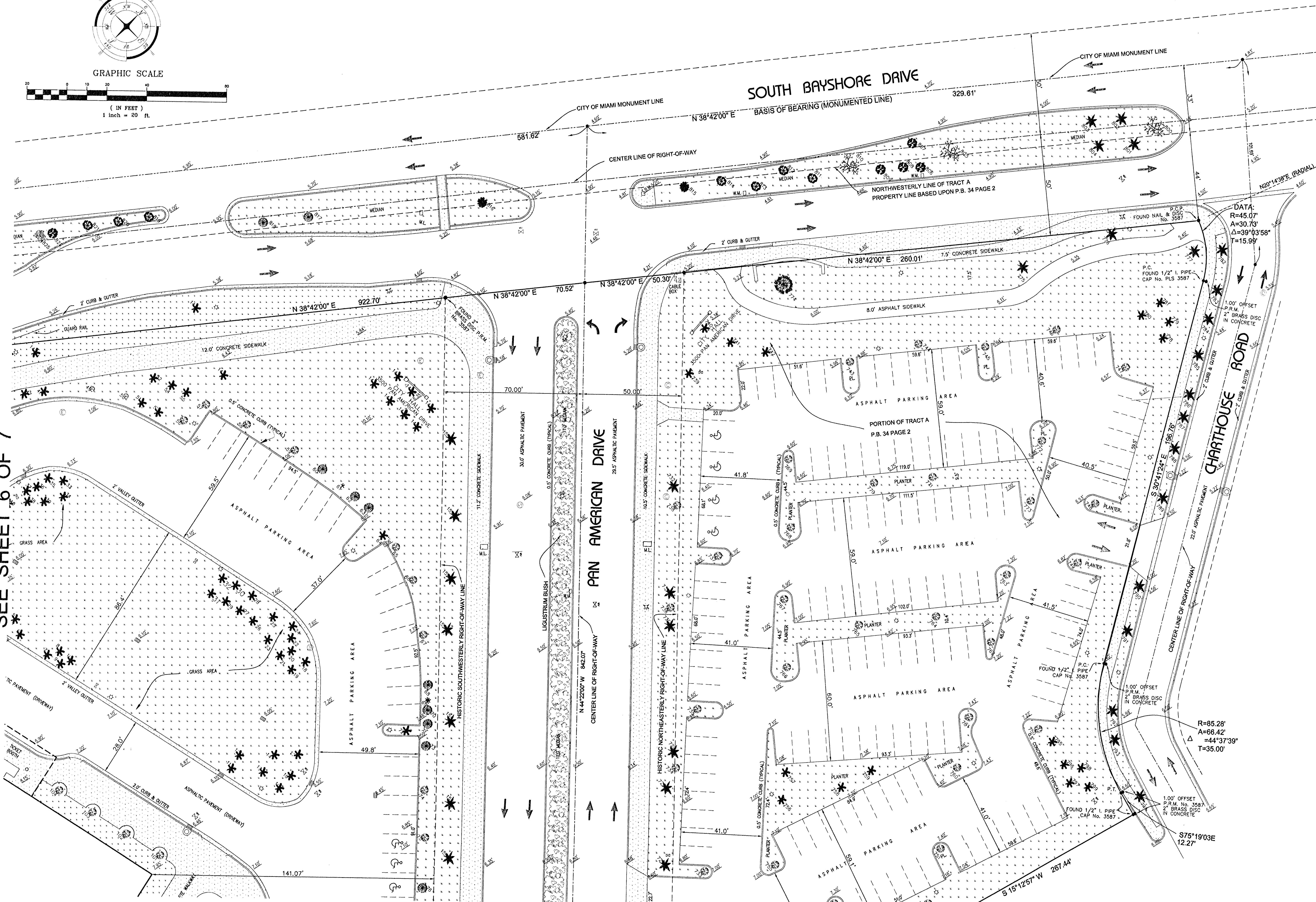




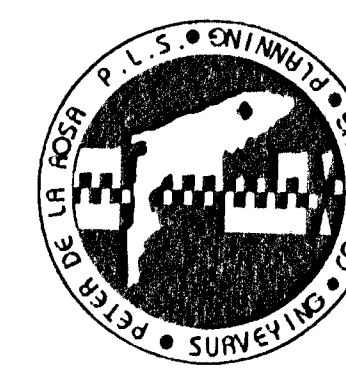
GRAPHIC SCALE



SEE SHEET 6 OF 7



SEE SHEET 3 OF 7



PETER DE LA ROSA PLS INC
SURVEYING CONSULTING PLANNING
17000 S.W. 170th AVENUE MIAMI FLORIDA 33187
PH (305) 532-5645 FAX (305) 256-4871
E-MAIL PRNRANCH@YAHOO.COM
LICENSE BUSINESS NO. 3814

Peter de la Rosa
PETER DE LA ROSA
PROFESSIONAL SURVEYOR AND
LANDSCAPE ARCHITECT
MAPPER REG. NO. 5330
STATE OF FLORIDA

PROJECT:
CITY OF MIAMI
COCONUT GROVE CONVENTION CENTER
CITY OF MIAMI CITY HALL
FLORIDA

JOB No.	111250-U
FIELD BOOK:	FILE
CAD FILE:	LD-2008
DATE:	AS SHOWN
SCALE:	AS SHOWN
DRAWN:	L.D.D.
REV.:	P.R.N.
REVISIONS	
SHEET No.	2 OF 11

DATA:
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A=30.73'
Δ=39°03'58"
T=15.99'

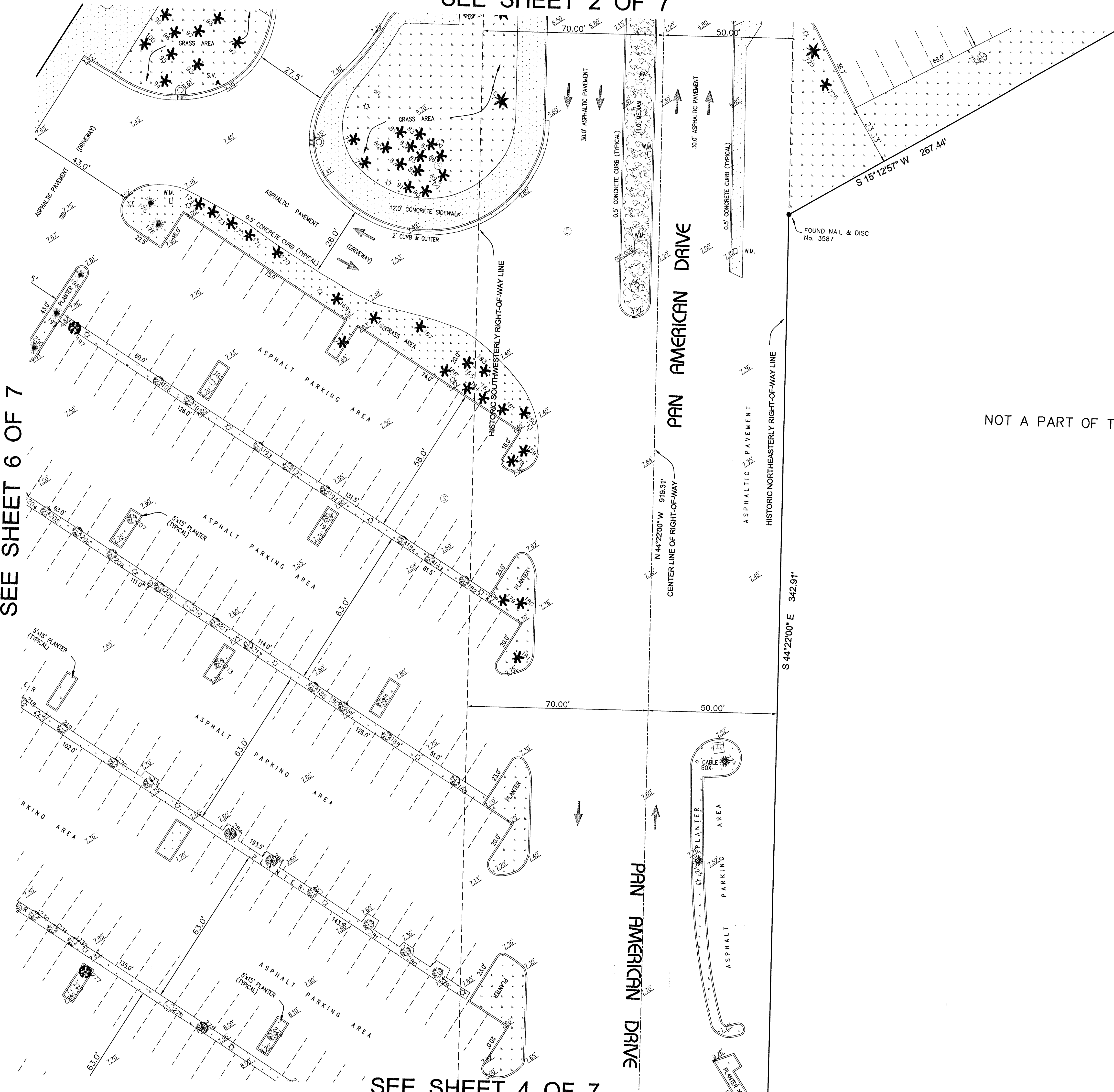
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Δ=44°37'39"
T=35.00'

S75°19'03E
12.27'

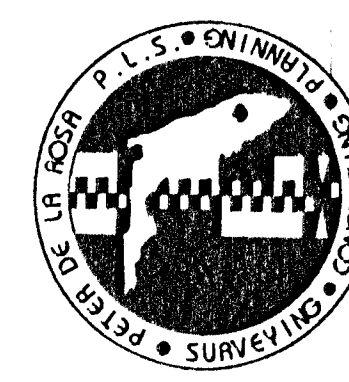
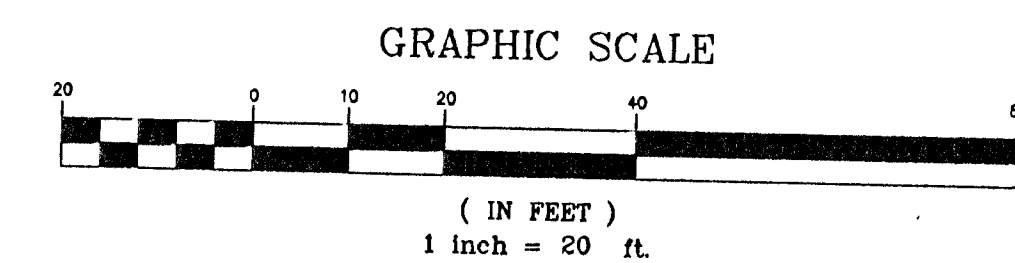
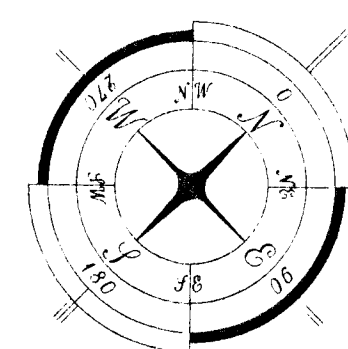
SEE SHEET 2 OF 7

SEE SHEET 6 OF 7

SEE SHEET 4 OF 7



NOT A PART OF THIS SURVEY



PETER DE LA ROSA PLUS INC
 SURVEYING CONSULTING PLANNING
 17000 S.W. 170th AVENUE MIAMI, FLORIDA 33187
 LICENSE BUSINESS NO. 3814 E-MAIL: PRNRANCH@YAHOO.COM
 PH: (305) 552-6645 FAX: (305) 266-4811

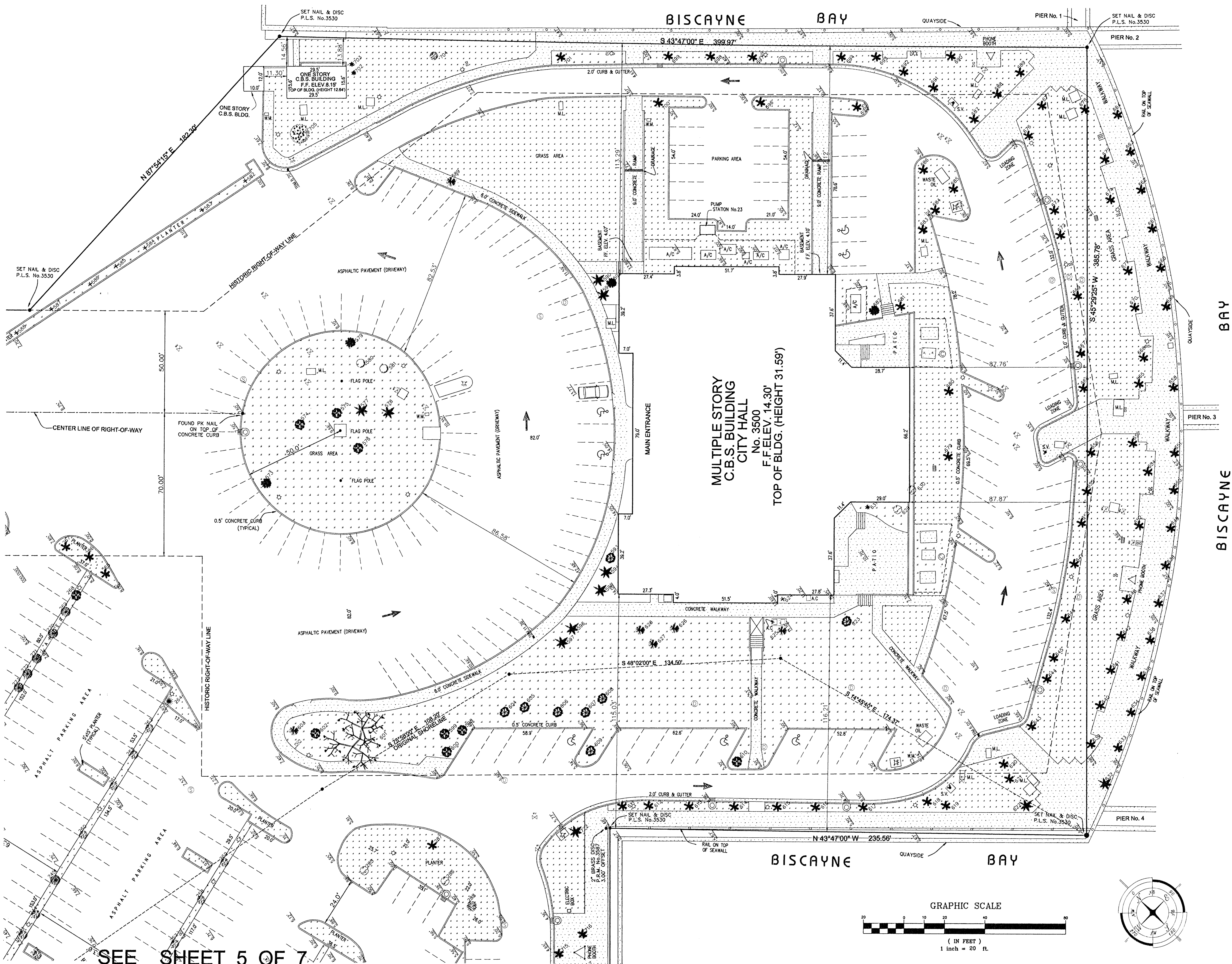
Peter de la Rosa
 PETER DE LA ROSA
 PROFESSIONAL SURVEYOR AND
 PLANNER REG. NO. 3800
 STATE OF FLORIDA

PROJECT:
CITY OF MIAMI
 COCONUT GROVE CONVENTION CENTER
 CITY OF MIAMI CITY HALL
 FLORIDA

JOB No.	111250-U
FIELD BOOK:	FILE
CAD FILE:	LD-2008
DATE:	AS SHOWN
SCALE:	AS SHOWN
DRAWN:	F.A.L.
REV.:	P.R.N.
REVISIONS	
SHEET No.	3 OF 11

SEE SHEET 3 OF 7

SEE SHEET 5 OF 7



**MULTIPLE STORY
C.B.S. BUILDING
CITY HALL**
No. 3500
F.F. ELEV. 14.30'
TOP OF BLDG. (HEIGHT 31.59')



PETER DE LA ROSA P.L.C.
SURVEYING CONSULTING PLANNING
17000 S.W. 70th AVENUE MIAMI, FLORIDA 33187
PHONE (305) 552-8545 FAX (305) 256-4571
E-MAIL PRNRANCH@YAHOO.COM
LICENSE BUSINESS NO. 3814

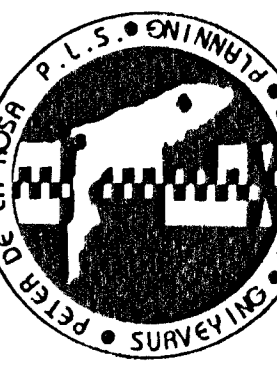
Peter de la Rosa
PETER DE LA ROSA
PROFESSIONAL SURVEYOR AND
LANDSCAPE ARCHITECT
STATE OF FLORIDA

PROJECT: **CITY OF MIAMI
COCONUT GROVE CONVENTION CENTER
CITY OF MIAMI CITY HALL
FLORIDA**

JOB No.	111250-U
FIELD BOOK:	FILE
CAD FILE:	LD-2008
DATE:	AS SHOWN
SCALE:	AS SHOWN
DRAWN:	F.A.L.
REV.:	P.R.N.
REVISIONS	
SHEET No.	4 OF 11

SEE SHEET 6 OF 7

COCONUT GROVE EXHIBITION CENTER
MULTI-STORY C.B.S. BUILDING
No. 2700

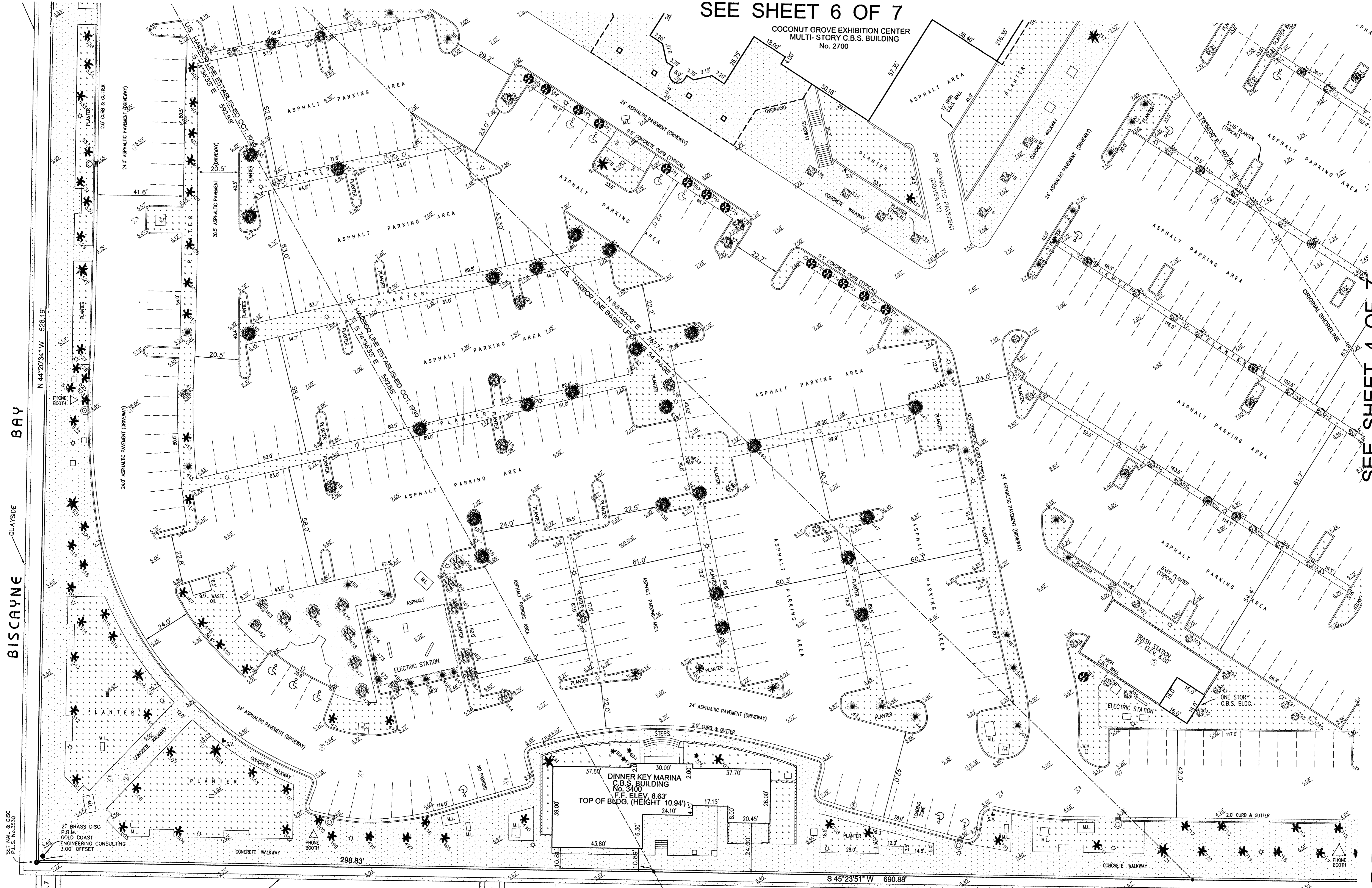


PETER DE LA ROSA P.L.S. & ASSOCIATES, INC.
SURVEYING CONSULTING PLANNING
17000 S.W. 170th AVENUE MIAMI FLORIDA 33187
PH: (305) 552-8545 FAX: (305) 259-4511
E-MAIL: PRNRANCH@YAHOO.COM
LICENSE BUSINESS NO. 3814

(Signature)
PETER DE LA ROSA
PROFESSIONAL SURVEYOR AND
REGISTERED PROFESSIONAL PLANNER
STATE OF FLORIDA

PROJECT:
CITY OF MIAMI
COCONUT GROVE CONVENTION CENTER
CITY OF MIAMI CITY HALL
FLORIDA

JOB No. 111250-U
FIELD BOOK: FILE
CAD FILE: LD-2008
DATE: AS SHOWN
SCALE: AS SHOWN
DRAWN: F.A.L.
REV: P.R.N.
REVISIONS
SHEET No. 5 OF 11



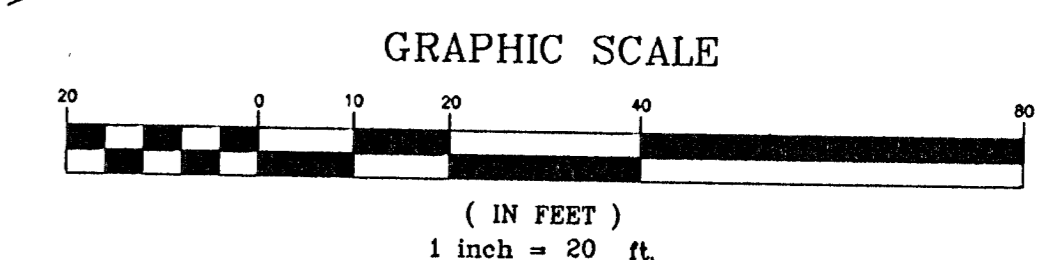
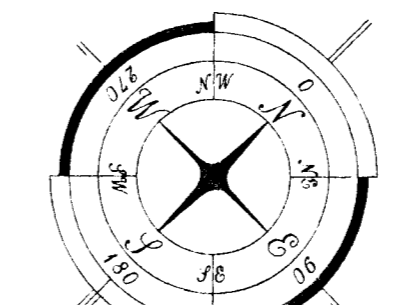
BAY
QUAYSIDE
BISCAYNE

PIER No. 7
QUAYSIDE
PIER No. 6
QUAYSIDE
PIER No. 5
QUAYSIDE

BISCAYNE

BAY

U.S. HARBOR LINE ESTABLISHED OCT. 1939
N 76°32'54" E



SEE SHEET 4 OF 7

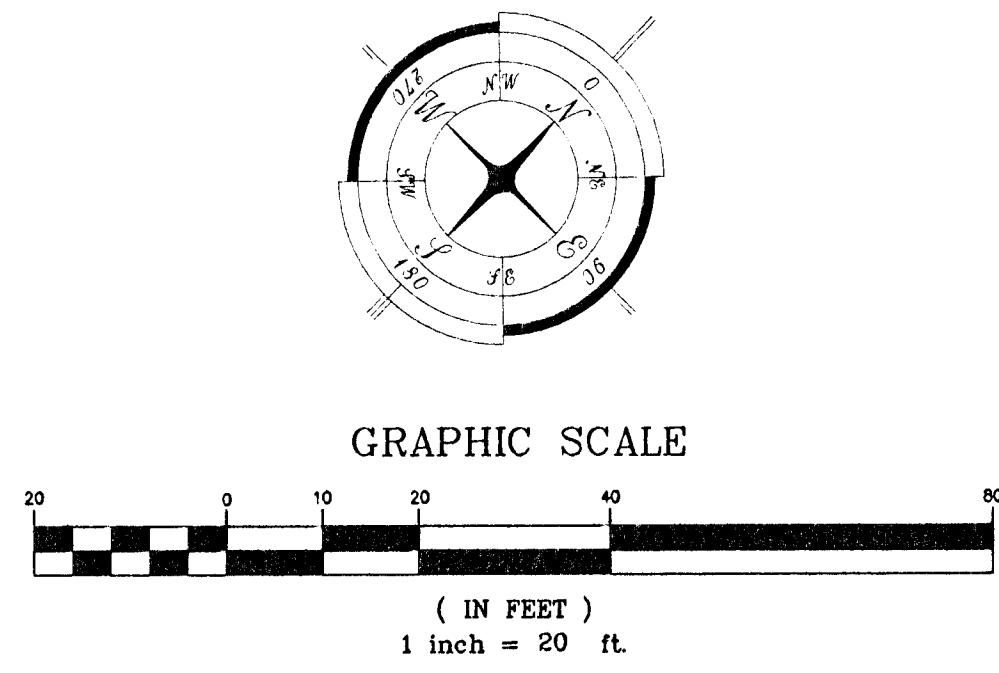
SET NAIL & DISC
P.L.S. No. 3530

2" BRASS DISC
P.R.M.
GOLD COAST
ENGINEERING CONSULTING
3.00' OFFSET

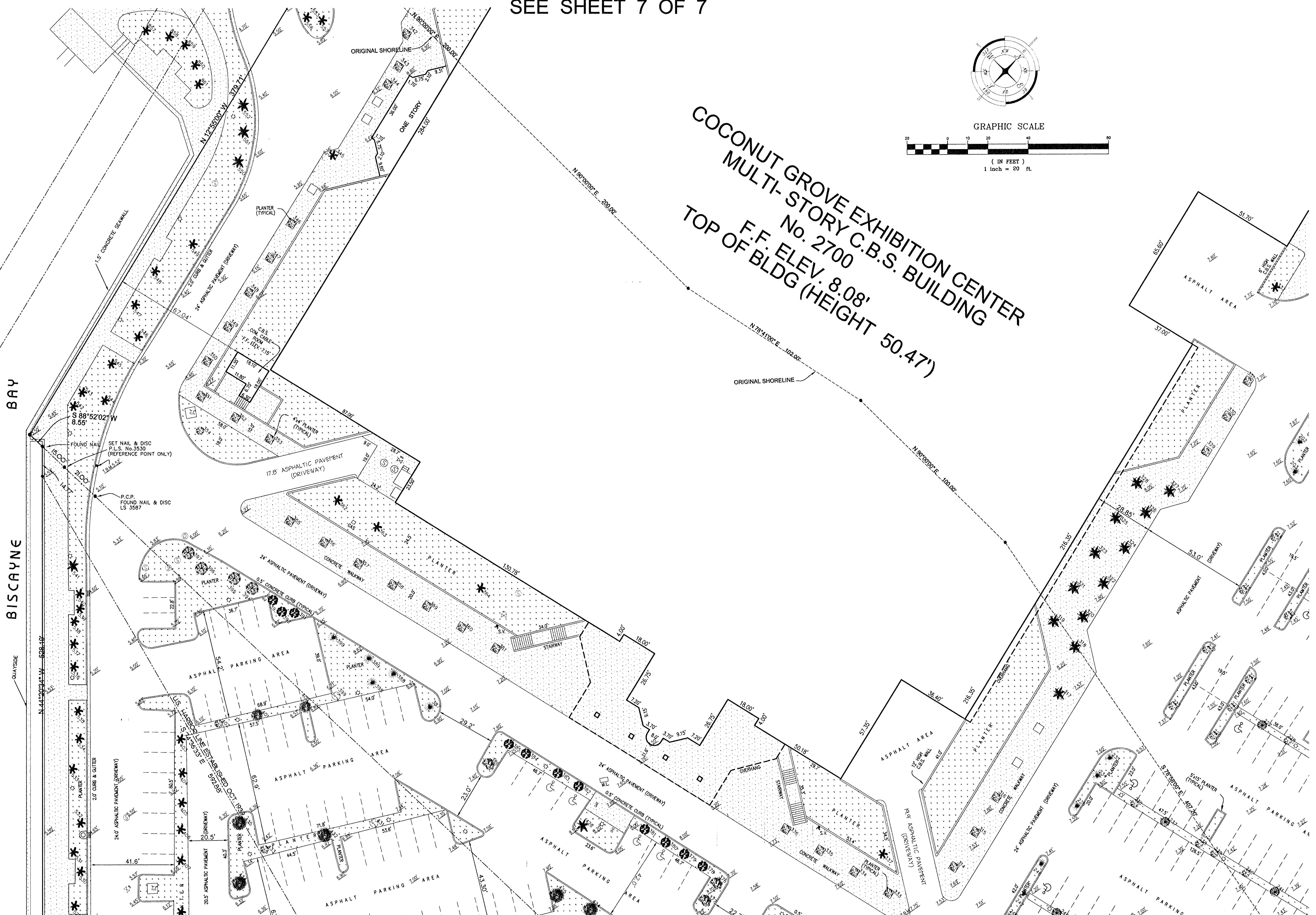
DINNER KEY MARINA
C.B.S. BUILDING
No. 3400
F.F. ELEV. 8.63'
TOP OF BLDG. (HEIGHT 10.94')

S 45°23'51" W 690.88'

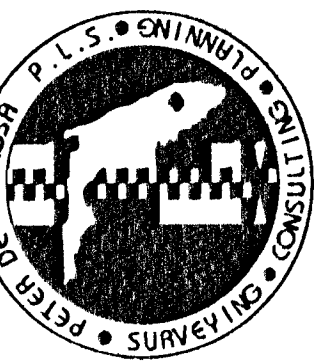
SEE SHEET 7 OF 7



COCONUT GROVE EXHIBITION CENTER
MULTI-STORY C.B.S. BUILDING
 No. 2700
 F.F. ELEV. 8.08'
 TOP OF BLDG (HEIGHT 50.47')



SEE SHEET 5 OF 7



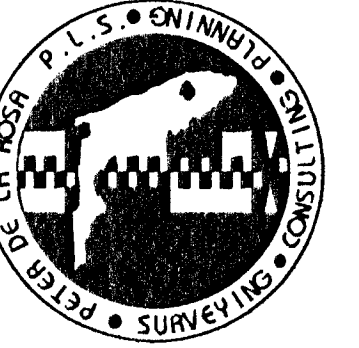
PETER DE LA ROSA PLUS INC
 SURVEYING CONSULTING PLANNING
 7000 SW 170th Avenue Miamia, Florida 33187
 PH (305) 592-9545 FAX (305) 256-4511
 E-MAIL PRBRANCH@YAHOO.COM
 LICENSE BUSINESS NO. 38114

Peter De La Rosa
 PETER DE LA ROSA
 PROFESSIONAL LAND SURVEYOR
 LICENSE NO. 38314
 STATE OF FLORIDA

PROJECT:
CITY OF MIAMI
COCONUT GROVE CONVENTION CENTER
CITY OF MIAMI CITY HALL
 FLORIDA

JOB No.	111250-U
FIELD BOOK:	FILE
CAD FILE:	LD-2008
DATE:	AS SHOWN
SCALE:	AS SHOWN
DRAWN:	F.A.L.
REV:	P.R.N.
REVISIONS:	
SHEET No.	6 OF 11

SEE SHEET 3 OF 7



PETER DE LA ROSA PLS INC
 SURVEYING CONSULTING PLANNING
 7000 SW 170 AVENUE MIAMI, FLORIDA 33187
 PH (305) 552-8645 FAX (305) 256-4511
 E-MAIL PRNRANCH@YAHOO.COM
 LICENSE BUSINESS NO. 3814

Peter de la Rosa
 PETER DE LA ROSA
 PROFESSIONAL SURVEYOR AND
 PLANNER
 LICENSE NO. 3587
 STATE OF FLORIDA

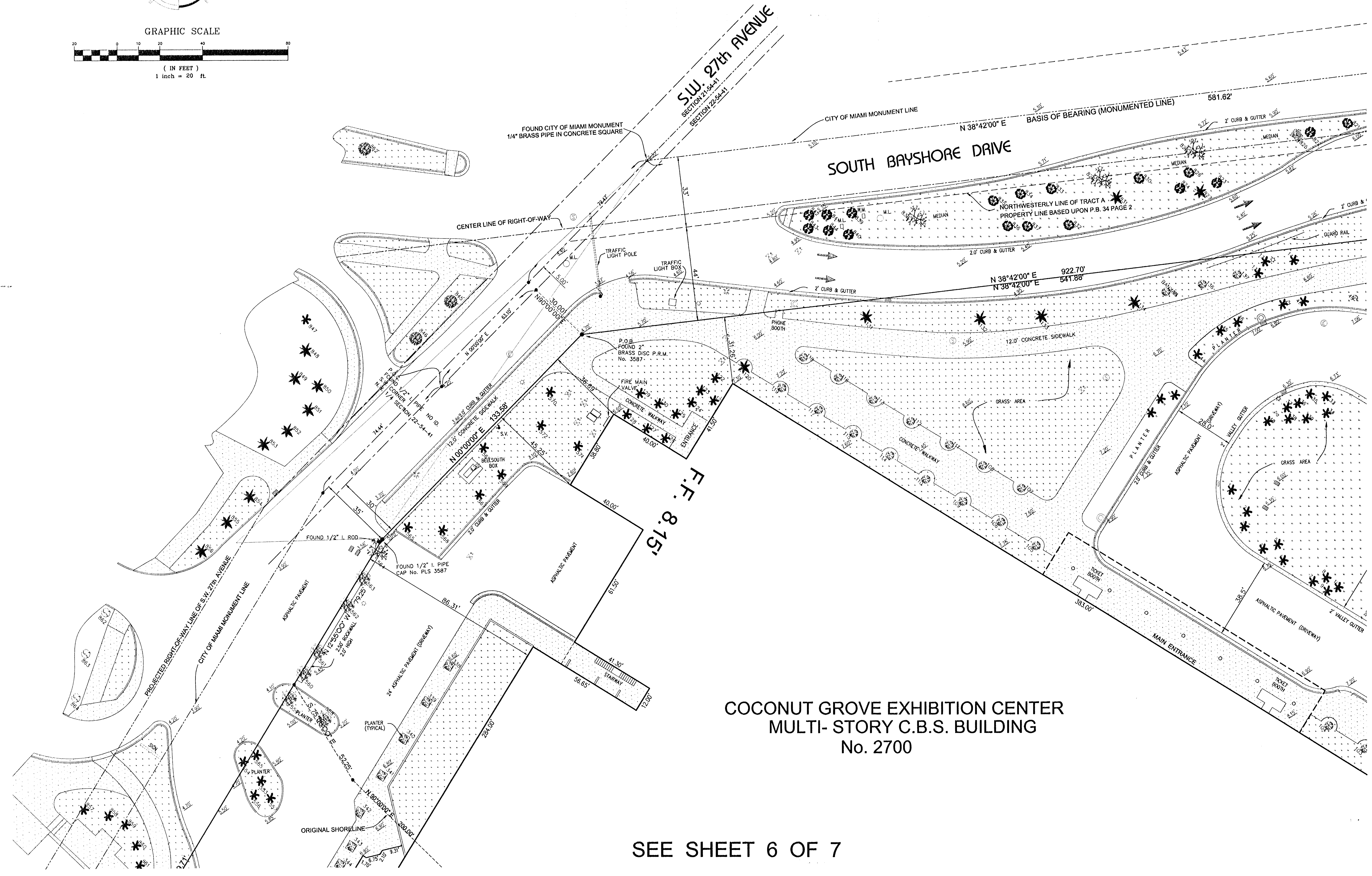
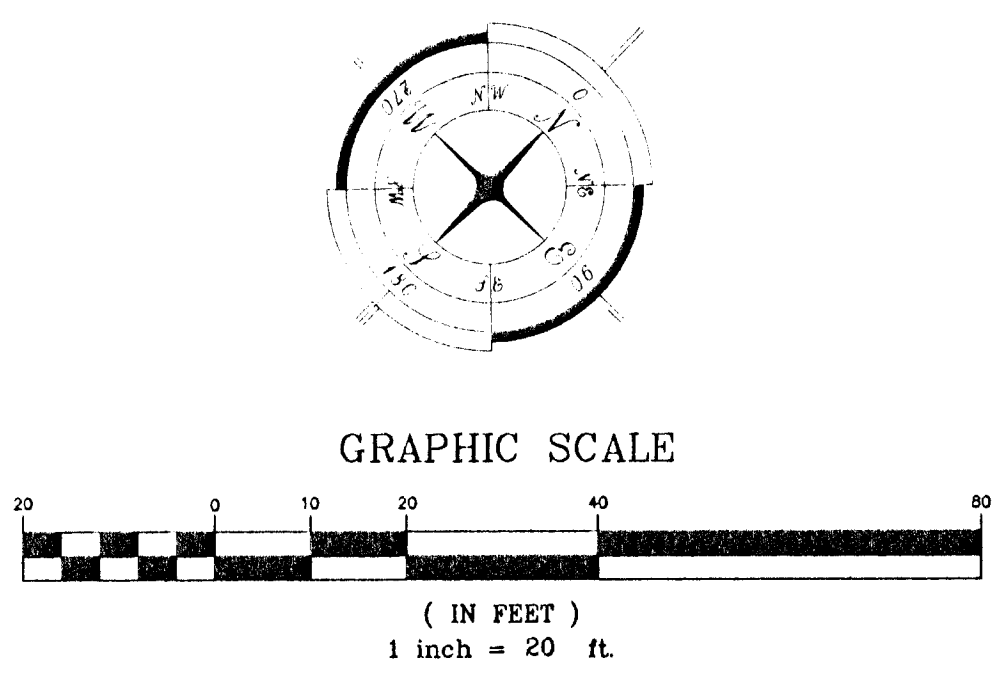
PROJECT:
CITY OF MIAMI
 COCONUT GROVE CONVENTION CENTER
 CITY OF MIAMI CITY HALL
 FLORIDA

JOB No.	111250-U
FIELD BOOK:	FILE
CAD FILE:	LD-2008
DATE:	AS SHOWN
SCALE:	AS SHOWN
DRAWN:	F.A.L.
REV.:	P.R.N.
REVISIONS	
SHEET No.	7 OF 11

SEE SHEET 2 OF 7

SEE SHEET 6 OF 7

COCONUT GROVE EXHIBITION CENTER
MULTI-STORY C.B.S. BUILDING
 No. 2700



TREE TABLE

No.	COMM.NAME	SCIENT.NAME	Ø _{100cm}	CNPY _{100cm}	H _{100cm}
230	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	6.0±	14.0±
231	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	6.0±	14.0±
232	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	6.0±	14.0±
233	SEAGRAPE	COCOLOBU UVIFERA	1.30±	18.0±	15.0±
234	SEAGRAPE	COCOLOBU UVIFERA	1.30±	18.0±	15.0±
235	SEAGRAPE	COCOLOBU UVIFERA	1.30±	18.0±	15.0±
236	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	8.0±	16.0±
237	BLACK OLIVE	BUCIDA BUCERAS	0.65±	6.0±	10.0±
238	LIVE OAK	QUERCUS-VIRGINIANA	0.30±	5.0±	10.0±
239	LIVE OAK	QUERCUS-VIRGINIANA	0.30±	5.0±	10.0±
240	LIVE OAK	QUERCUS-VIRGINIANA	0.70±	10.0±	13.0±
241	BLACK OLIVE	BUCIDA BUCERAS	0.70±	10.0±	13.0±
242	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	8.0±	12.0±
243	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	8.0±	12.0±
244	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	8.0±	12.0±
245	BLACK OLIVE	BUCIDA BUCERAS	0.50±	12.0±	16.0±
246	SEAGRAPE	COCOLOBU UVIFERA	1.00±	16.0±	18.0±
247	SEAGRAPE	COCOLOBU UVIFERA	1.00±	16.0±	18.0±
248	SEAGRAPE	COCOLOBU UVIFERA	1.00±	16.0±	18.0±
249	BLACK OLIVE	BUCIDA BUCERAS	1.40±	20.0±	30.0±
250	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	12.0±	12.0±
251	LIVE OAK	QUERCUS-VIRGINIANA	0.30±	6.0±	10.0±
252	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	12.0±	12.0±
253	BLACK OLIVE	BUCIDA BUCERAS	0.25±	6.0±	10.0±
254	BLACK OLIVE	BUCIDA BUCERAS	0.20±	16.0±	20.0±
255	LIVE OAK	QUERCUS-VIRGINIANA	0.30±	8.0±	12.0±
256	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	12.0±	16.0±
257	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	12.0±	16.0±
258	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	12.0±	16.0±
259	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	10.0±	16.0±
260	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	4.0±	9.0±

TREE TABLE

No.	COMM.NAME	SCIENT.NAME	Ø _{100cm}	CNPY _{100cm}	H _{100cm}
288	SKY FLOWER	THUNBERGIA GRANDIFLORA	0.40±	8.0±	10.0±
289	GUMBO LIMBO	TORCHWOOD FAMILY(BURSERACEGE)	2/0.60±	10.0±	16.0±
290	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	9.0±	13.0±
291	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	6.0±	10.0±
292	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	9.0±	8.0±
293	LIVE OAK	QUERCUS-VIRGINIANA	0.30±	4.0±	7.0±
294	LIVE OAK	QUERCUS-VIRGINIANA	1.0±	9.0±	13.0±
295	LIVE OAK	QUERCUS-VIRGINIANA	0.90±	6.0±	12.0±
296	LIVE OAK	QUERCUS-VIRGINIANA	0.90±	6.0±	12.0±
297	SABAL PALMETTO	CABBAGE PALM	1.60±	8.0±	24.0±
298	LIVE OAK	QUERCUS-VIRGINIANA	1.0±	14.0±	18.0±
299	SEAGRAPE	COCOLOBU UVIFERA	2.50±	20.0±	20.0±
300	SEAGRAPE	COCOLOBU UVIFERA	0.70±	12.0±	12.0±
301	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	7.0±	12.0±
302	LIVE OAK	QUERCUS-VIRGINIANA	0.40±	7.0±	12.0±
303	LIVE OAK	QUERCUS-VIRGINIANA	0.80±	12.0±	16.0±
304	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	12.0±	16.0±
305	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	12.0±	16.0±
306	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	12.0±	16.0±
307	BLACK OLIVE	BUCIDA BUCERAS	3/1.20±	12.0±	16.0±
308	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	12.0±	18.0±
309	LIVE OAK	QUERCUS-VIRGINIANA	0.50±	12.0±	18.0±
310	BLACK OLIVE	BUCIDA BUCERAS	1.50±	30.0±	26.0±
311	LIVE OAK	QUERCUS-VIRGINIANA	0.70±	6.0±	12.0±
312	GUMBO LIMBO	TORCHWOOD FAMILY(BURSERACEGE)	0.70±	10.0±	10.0±
313	LIVE OAK	QUERCUS-VIRGINIANA	0.70±	6.0±	12.0±
314	LIVE OAK	QUERCUS-VIRGINIANA	0.70±	6.0±	12.0±
315	LIVE OAK	QUERCUS-VIRGINIANA	0.70±	6.0±	12.0±
316	LIVE OAK	QUERCUS-VIRGINIANA	1.0±	16.0±	22.0±
317	FLORIDA ROYAL PALM	ROYSTONIA ELATA	1.0±	12.0±	25.0±
318	FLORIDA ROYAL PALM	ROYSTONIA ELATA			

TREE TABLE

No.	COMM.NAME	SCIENT.NAME	Ø _{100cm}	CNPY _{100cm}	H _{100cm}
346	LIVE OAK	QUERCUS-VIRGINIANA	1.30±	12.0±	18.0±
347	LIVE OAK	QUERCUS-VIRGINIANA	1.00±	12.0±	18.0±
348	LIVE OAK	QUERCUS-VIRGINIANA	0.85±	12.0±	18.0±
349	LIVE OAK	QUERCUS-VIRGINIANA	0.70±	12.0±	18.0±
350	LIVE OAK	QUERCUS-VIRGINIANA	0.70±	12.0±	18.0±
351	LIVE OAK	QUERCUS-VIRGINIANA	1.00±	12.0±	22.0±
352	LIVE OAK	QUERCUS-VIRGINIANA	1.0.0±	12.0±	22.0±
353	LIVE OAK	QUERCUS-VIRGINIANA	1.00±	12.0±	22.0±
354	LIVE OAK	QUERCUS-VIRGINIANA	0.80±	12.0±	22.0±
355	LIVE OAK	QUERCUS-VIRGINIANA	1.20±	14.0±	24.0±
356	LIVE OAK	QUERCUS-VIRGINIANA	1.00±	14.0±	24.0±
357	LIVE OAK	QUERCUS-VIRGINIANA	0.60±	14.0±	24.0±
358	LIVE OAK	QUERCUS-VIRGINIANA	1.00±	14.0±	24.0±
359	LIVE OAK	QUERCUS-VIRGINIANA	1.00±	14.0±	24.0±
360	LIVE OAK	QUERCUS-VIRGINIANA	1.00±	14.0±	24.0±
361	LIVE OAK	QUERCUS-VIRGINIANA	1.00±	14.0±	24.0±
362	COCONUT PALM	COCOS NUCIFERA	0.60±	14.0±	22.0±
363	COCONUT PALM	COCOS NUCIFERA	0.60±	14.0±	22.0±
364	COCONUT PALM	COCOS NUCIFERA	0.60±	14.0±	22.0±
365	SEAGRAPE	COCOLOBU UVIFERA	2.00±	8.0±	12.0±
366	SEAGRAPE	COCOLOBU UVIFERA	0.85±	8.0±	12.0±
367	SEAGRAPE	COCOLOBU UVIFERA	0.60±	8.0±	12.0±
368	SEAGRAPE	COCOLOBU UVIFERA	1.50±	12.0±	18.0±
369	SEAGRAPE	COCOLOBU UVIFERA	1.20±	16.0±	20.0±
370	SEAGRAPE	COCOLOBU UVIFERA	1.00±	16.0±	20.0±
371	SABAL PALMETTO	CABBAGE PALM	1.00±	8.0±	20.0±
372	SABAL PALMETTO	CABBAGE PALM	1.00±	8.0±	20.0±
373	SABAL PALMETTO	CABBAGE PALM	1.00±	8.0±	20.0±
374	SABAL PALMETTO	CABBAGE PALM	1.00±	8.0±	20.0±
375	SABAL PALMETTO	CABBAGE PALM	1.00±	8.0±	20.0±

TREE TABLE

No.	COMM.NAME	SCIENT.NAME	Ø _{100cm}	CNPY _{100cm}	H _{100cm}
404	COCONUT PALM	COCOS NUCIFERA	0.55±	12.0±	28.0±
405	COCONUT PALM	COCOS NUCIFERA	0.55±	12.0±	28.0±
406	COCONUT PALM	COCOS NUCIFERA	0.55±	12.0±	28.0±
407	COCONUT PALM	COCOS NUCIFERA	0.55±	12.0±	28.0±
408	COCONUT PALM	COCOS NUCIFERA	0.55±	12.0±	28.0±
409	COCONUT PALM	COCOS NUCIFERA	0.55±	12.0±	28.0±
410	COCONUT PALM	COCOS NUCIFERA	0.55±	12.0±	28.0±
411	SEAGRAPE	COCOLOBU UVIFERA	2.00±	20.0±	10.0±
412	ALEXANDER LAUREL	CALLOPHYLLUM INOPHYLLUM	2.00±	12.0±	20.0±
413	COCONUT PALM	COCOS NUCIFERA	0.65±	12.0±	26.0±
414	COCONUT PALM	COCOS NUCIFERA	0.65±	12.0±	26.0±
415	SEAGRAPE	COCOLOBU UVIFERA	1.50±	7.00±	13.0±
416	ALEXANDER LAUREL	CALLOPHYLLUM INOPHYLLUM	0.70±	20.0±	10.0±
417	MAHOGANY	SWETENIA MAHAGONI	1.00±	14.0±	20.0±
418	ALEXANDER LAUREL	CALLOPHYLLUM INOPHYLLUM	0.35±	6.0±	20.0±
419	ALEXANDER LAUREL	CALLOPHYLLUM INOPHYLLUM	0.70±	12.0±	22.0±
420	MAHOGANY	SWETENIA MAHAGONI	1.30±	24.0±	25.0±
421	MAHOGANY	SWETENIA MAHAGONI	1.00±	18.0±	25.0±
422	MAHOGANY	SWETENIA MAHAGONI	1.50±	21.0±	26.0±
423	MAHOGANY	SWETENIA MAHAGONI	2.00±	20.0±	22.0±
424	MAHOGANY	SWETENIA MAHAGONI	1.10±	20.0±	23.0±
425	MAHOGANY	SWETENIA MAHAGONI	1.70±	30.0±	25.0±
426	CUBAN ROYAL PALM	RYOSTONEA REGIA	1.00±	10.0±	24.0±
427	MAHOGANY	SWETENIA MAHAGONI	0.80±	20.0±	30.0±
428	MAHOGANY	SWETENIA MAHAGONI	1.30±	37.0±	30.0±
429	ALEXANDER LAUREL	CALLOPHYLLUM INOPHYLLUM	0.40±	10.0±	20.0±
430	MAHOGANY	SWETENIA MAHAGONI	1.40±	10.0±	20.0±
431	GUMBO LIMBO	TORCHWOOD FAMILY(BURSERACEGE)	1.20±	20.0±	25.0±
432	MAHOGANY	SWETENIA MAHAGONI	2.00±	30.0±	24.0±
433	LIVE OAK	QUERCUS-VIRGINIANA	1.10±	15.0±	30.0±

TREE TABLE

TREE TABLE

TREE TABLE

TREE TABLE

Table with 6 columns: No., COMM.NAME, SCIENT.NAME, #trees, CNPYears, Htree. Rows 462-516.

Table with 6 columns: No., COMM.NAME, SCIENT.NAME, #trees, CNPYears, Htree. Rows 517-574.

Table with 6 columns: No., COMM.NAME, SCIENT.NAME, #trees, CNPYears, Htree. Rows 575-632.

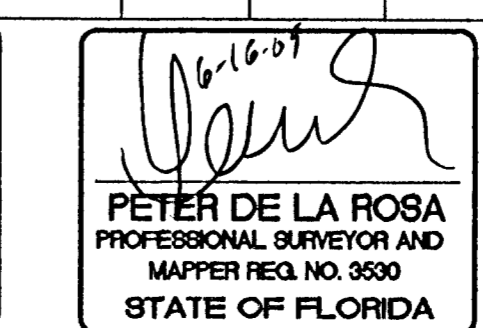
Table with 6 columns: No., COMM.NAME, SCIENT.NAME, #trees, CNPYears, Htree. Rows 633-690.

JOB No. 111250-U, FIELD BOOK: FILE, SCALE: , DATE: AS SHOWN, VERSION: LD-B, DRAWN: L.D. DOC, SHEET No. 10 OF 11, CAD FILE, REV: PDLR

REVISIONS & UPDATES

REVISIONS & UPDATES

PROJECT: CITY OF MIAMI, COCONUT GROVE CONVENTION CENTER, CITY OF MIAMI CITY HALL, FLORIDA



PETER DE LA ROSA P.L.S. INC. SURVEYING o CONSULTING o PLANNING, 17000 S.W. 170 AVENUE, MIAMI, FLORIDA 33187, PH (305) 552-8545 FAX (305) 258-4511, LICENSE BUSINESS NO. 3814, E-MAIL prranch@yahoo.com



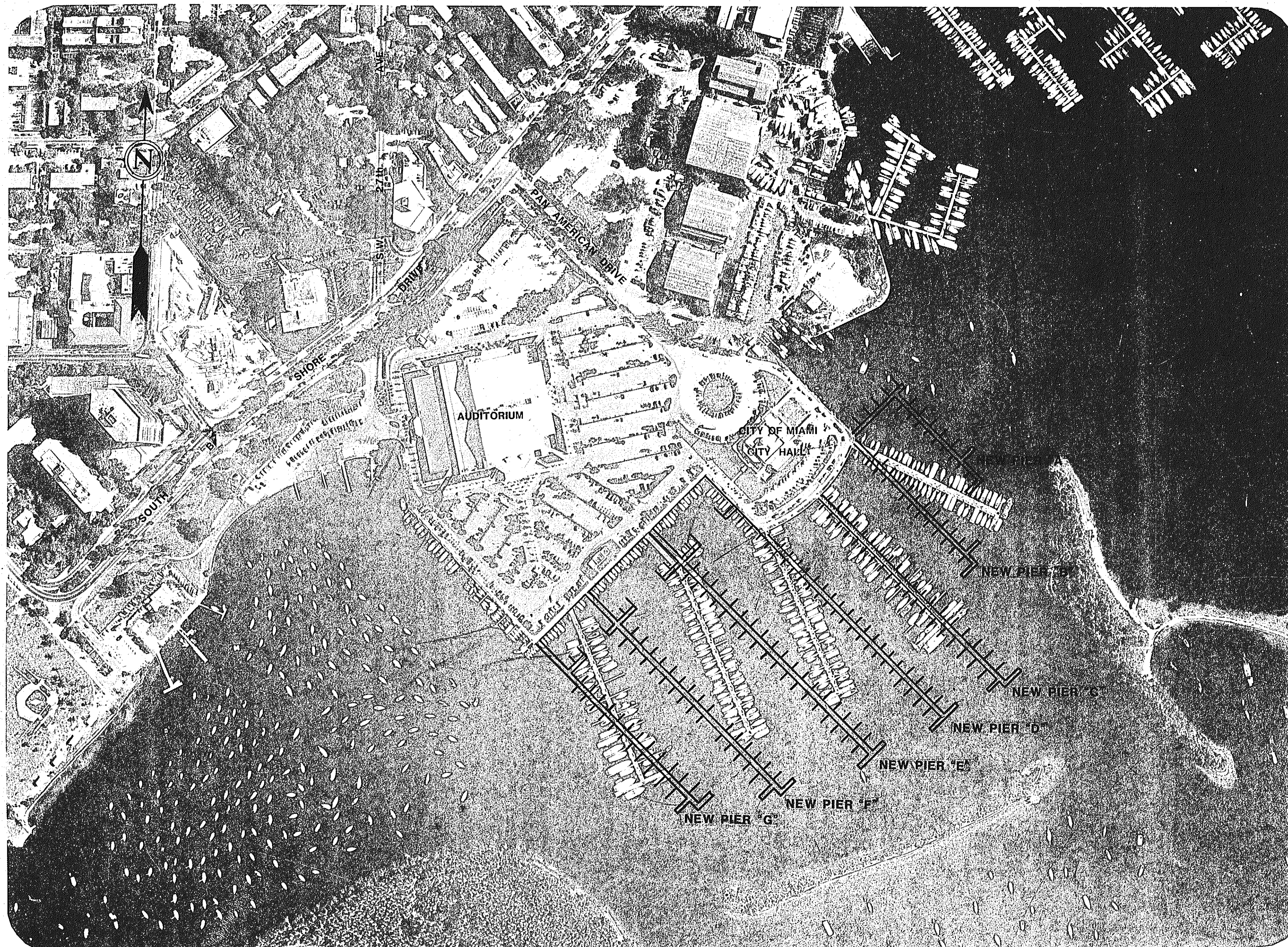
THE CITY OF MIAMI, FLORIDA

DEPARTMENT OF PUBLIC WORKS

DINNER KEY MARINA

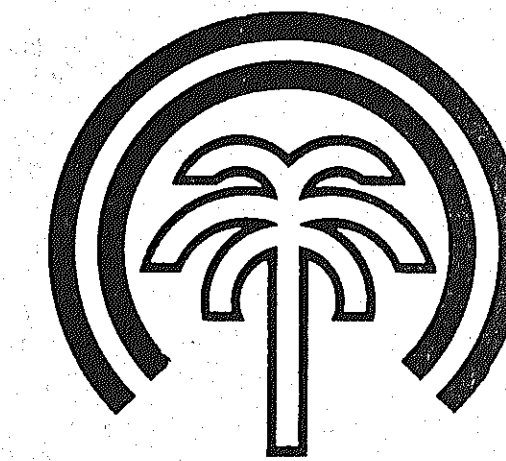
RENOVATION AND EXPANSION

JOB No. B 3202
FILE ARCH. 3-28



SITE LOCATION PLAN

SCALE: 1" = 200'



City of Miami

CITY COMMISSION

MAURICE FERRE, MAYOR

DEMETRIO PEREZ, Jr., VICE MAJOR

JOE CAROLLO, COMMISSIONER

MILLER I. DAWKINS, COMMISSIONER

J. L. PLUMMER, COMMISSIONER

RANDOLPH B. ROSENCRANTZ-CITY MANAGER

DONALD W. CATHER DIRECTOR-PUBLIC WORKS DEPARTMENT

ALFREDO E. RODRIGUEZ-DIRECTOR OF MARINAS

PREPARED BY:



JOHN
Chairman

NOVEMBER 1984

JOB 1

Prints made 3-4-85
of tracings given to us by
Greenleaf, at 4 Adams,
comprising cover sheet, Dike Sheet,
Civil sheets (Nos 2 retained by Mitchell),
Irrigation and Electrical.
ER 3 485

DKM.
1984 REPEVE & P...
1984 REPAVSI N

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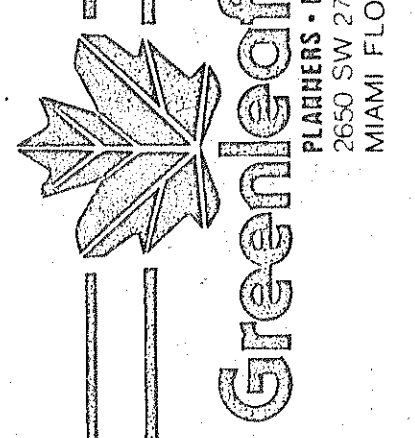
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GENERAL NOTES

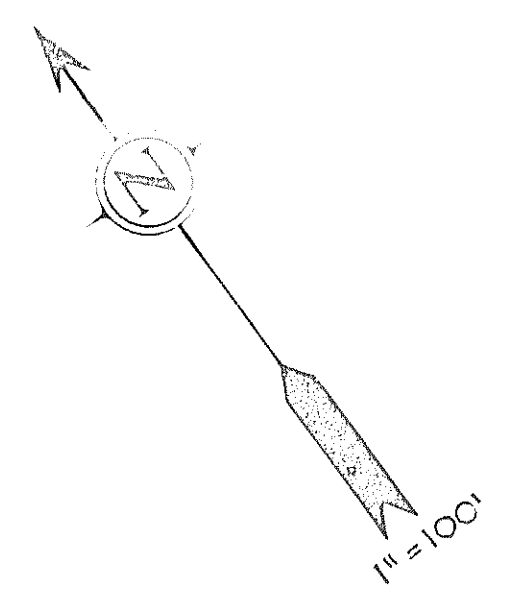
- FOR LAYOUT SURVEY NOTES SEE SH. C-1.
- FOR STRUCTURAL, ELECTRICAL, LANDSCAPING, AND ARCHITECTURAL GENERAL NOTES SEE APPROPRIATE DRAWINGS.
- LOCATIONS, SIZE, MATERIAL, ALIGNMENT, AND ELEVATIONS OF EXISTING FACILITIES HAVE BEEN DETERMINED FROM AVAILABLE RECORDS. THIS INFORMATION IS FURNISHED AS A GUIDE FOR THE CONTRACTOR. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DETERMINING AND PROTECTING ALL TYPES OF UTILITIES AND STRUCTURES WHICH MAY BE ENCOUNTERED DURING THE COURSE OF OPERATIONS ON THIS PROJECT.
- EXISTING UTILITIES THAT ARE TO BE RELOCATED WILL BE OF THE SAME SIZE AND MATERIAL AS EXISTING OR AS DIRECTED BY THE ENGINEER.
- DIMENSIONS SHOWN LOCATING NEW STORM DRAIN LINE, STRUCTURES, MANHOLES, INLETS, ETC., ARE APPROXIMATE AND MAY BE CHANGED DUE TO FIELD CONDITIONS WITH PRIOR ENGINEER'S APPROVAL.
- EXPLORATORY TEST PITS AND TRENCHES ARE REQUIRED AHEAD OF ALL UTILITY EXCAVATIONS TO VERIFY EXACT LOCATIONS OF EXISTING SUBSURFACE OBSTRUCTIONS. ANY CONFLICTS WITH THE PROPOSED WORK SHALL BE REPORTED TO THE ENGINEER FOR DIRECTION CONCERNING PIPELINE LOCATION, ADJUSTMENTS, OR OBSTACLE RELOCATION.
- WHEN THE VERTICAL ALIGNMENT OF THE PROPOSED PIPE IS OBSTRUCTED BY AN EXISTING UTILITY, DO NOT RELOCATE WITHOUT FIRST CONSULTING THE ENGINEER. THE FINAL PIPING ARRANGEMENT SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL DAMAGE CAUSED BY THE CARRYING OUT OF WORK UNDER THIS CONTRACT TO ANY PIPES OR CONDUIT OR OTHER PUBLIC OR PRIVATE PROPERTY WHETHER ABOVE OR UNDERGROUND, SHALL BE MADE GOOD TO THE SATISFACTION OF THE OWNER OF THE SAME, AT THE EXPENSE OF THE CONTRACTOR.
- ACCURATELY RECORD THE LOCATION AND ELEVATIONS OF THE NEW PIPE WORK AND EXISTING UTILITIES AND STRUCTURES ENCOUNTERED ON MYLAR "AS-BUILT" RECORD DRAWINGS AS SPECIFIED.
- ALL CONCRETE THRUST AND/OR SUPPORT BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL. INCLUDE COST OF THIS WORK IN THE APPROPRIATE BID ITEM FOR PIPING.
- WHERE NO RIM ELEVATIONS ARE SHOWN ON PLANS FOR MANHOLES AND/OR CATCH BASINS, SET RIM ELEVATION FLUSH WITH EXISTING GRADE.
- SPRINKLER SYSTEMS ENCOUNTERED DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. HE SHALL VERIFY ALL LOCATIONS AND TAKE NECESSARY PRECAUTIONS TO ELIMINATE DAMAGE OR REPAIR TO PRECONSTRUCTION CONDITION AT HIS EXPENSE.
- VERIFY LOCATION OF TRAFFIC CONTROL WIRING AND SIGNALS ENCOUNTERED IN THE AREA OF CONSTRUCTION. TAKE NECESSARY PRECAUTIONS TO ELIMINATE DAMAGE. ANY REPAIRS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- TRENCHES SHALL BE KEPT AS NEARLY VERTICAL AS POSSIBLE, GIVING SPECIAL ATTENTION TO NEARBY STRUCTURES. NO EXCAVATION SHALL BE WITHIN FIFTEEN (15) FEET OF ANY BUILDING FOUNDATION.
- IN AREAS WHERE THE EXISTING GROUND IS TO BE REGRADED, ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED. GROUND SURFACE IMMEDIATELY ADJACENT TO TRUNKS TO REMAIN UNCHANGED; GRADE AREA SURROUNDING TRUNKS TO EXISTING CONTOURS. DESTRUCTION OF ROOTS SHALL BE KEPT TO A MINIMUM.
- LANDSCAPE AREAS DISTURBED AND/OR REGRADED BY THE PROPOSED CONSTRUCTION SHALL BE REBUILT TO MINIMUM ORIGINAL CONDITION INCLUDING SODDING AND REPLANTING OF SHRUBS OR 6 INCHES MINIMUM STABILIZATION AT 98% COMPACTION AS PER AASHTO T-180 AT NO COST TO THE OWNER. INCLUDE IN APPROPRIATE BID ITEM.
- BRACE AND PROTECT EXISTING UTILITIES AND TIE BACKS EXPOSED DURING TRENCHING, PIPE LAYING, AND BACKFILLING OF NEW DRAINAGE SYSTEM. ALL SHEETING, DEWATERING, RELOCATION OR REPLACING OF ANY DAMAGED EXISTING UTILITIES, TIE BACKS OR STRUCTURES SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO USE EXTREME CAUTION IN EXCAVATING FOR UTILITIES WITHIN APPROXIMATELY 40 FEET OF EXISTING SEAWALL SO AS NOT TO UNDERMINE EXISTING TIE BACKS. EXISTING RECORDS ARE AVAILABLE FROM THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT.
- FOR DEMOLITION AND CONSTRUCTION SCHEDULE SEE SPECIFICATIONS.
- FIRE AND WATER DISTRIBUTION SYSTEMS SHOWN DO NOT INDICATE SERVICE AND FIRE CONNECTIONS TO EXISTING FACILITIES THAT ARE TO REMAIN. IN THE EVENT THAT EXISTING MAINS ARE TO BE ABANDONED OR REMOVED, CONTRACTOR SHALL INTERCONNECT EXISTING SERVICE CONNECTIONS TO NEW MAINS AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL CONTACT THE MIAMI-DADE WATER AND SEWER AUTHORITY DEPARTMENT, THE CITY OF MIAMI DEPARTMENT OF WATER AND SEWERS, CITY OF MIAMI DEPARTMENT OF PUBLIC WORKS, AND ALL OTHER UTILITY COMPANIES, 48 HOURS PRIOR TO CONSTRUCTION, FOR FIELD LOCATIONS OF ALL UNDERGROUND UTILITIES.
- PAVEMENT CUT OR DAMAGED IN CONNECTION WITH WORK IN PUBLIC RIGHT-OF-WAYS SHALL BE REBUILT OR REPAIRED. TEMPORARY SURFACING SHALL BE APPLIED TO ALL TRENCHES IMMEDIATELY AFTER BACKFILL HAS BEEN COMPLETED AND SHALL BE REPLACED WITH FINAL SURFACING TO MATCH EXISTING PAVEMENT IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- THE 24-INCH, 16-INCH, AND 12-INCH DIAMETER WATER MAINS SHALL REQUIRE POLYETHYLENE TUBING ENCASUREMENT.
- ALL MATERIALS AND LABOR UNDER THIS PROJECT TO THE LIMITS INDICATED ON THE PLANS SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER AUTHORITY DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH MIAMI-DADE WATER AND SEWER AUTHORITY DEPARTMENT.
- COVER OVER WATER MAINS SHALL BE 4'-0".
- ALL WATER MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10-INCH RISER PIPES AND NO. 3 VALVE BOXES. FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6-INCH RISER PIPES AND NO. 2 VALVE BOXES.
- ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER AUTHORITY DEPARTMENT, PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.
- FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATIONS IN ACCORDANCE WITH DEPARTMENT'S STANDARDS.
- MIAMI-DADE WATER AND SEWER AUTHORITY DEPARTMENT PERSONNEL WILL INSPECT ALL FACILITIES APPROVED BY THIS DEPARTMENT. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCIES SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.
- WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE MIAMI-DADE WATER AND SEWER AUTHORITY DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE DEPARTMENT:
 - A. EASEMENTS, IF REQUIRED.
 - B. CONTRACTOR'S WAIVER AND RELEASE OF LIEN.
 - C. ABSOLUTE BILL OF SALE.
 - D. a. CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT).
b. DEVELOPER'S CONTRACT BOND (I.E., CONTRACT AGREEMENT).
 - E. "AS BUILT" MYLAR 24" X 36" SHOWING SPECIFIC LOCATIONS, DEPTHS, ETC., OF ALL WATER FACILITIES AS LOCATED BY A LICENSED SURVEYOR ALONG WITH ONE (1) PRINT OF THE "AS BUILT" WHICH HAS BEEN SEALED BY THE SURVEYOR AND CERTIFIED BY THE ENGINEER OF RECORD.
- ALL CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY. THE CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS AND PROVIDE MATERIAL WITH FITTINGS.
- AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MIAMI-DADE WATER AND SEWER AUTHORITY DEPARTMENT FOR ALL NEW SUBDIVISIONS PRIOR TO APPROVAL OF WATER AND SEWER PERMIT PLANS.
- ALL 8-INCH AND 6-INCH DUCTILE IRON PIPE AND FITTINGS (FIRE) DOWNSTREAM FROM DETECTOR CHECK VALVE METER VAULTS SHALL BE "AMERICAN FLEX-RING RESTRAINED JOINT" OR APPROVED EQUAL.
- UNDERGROUND DUCT BANKS SHALL BE PROVIDED UNDER THIS CONTRACT FOR INSTALLATION OF WIRING AND CABLES BY SOUTHERN BELL TELEPHONE CO. AND FLORIDA POWER & LIGHT COMPANY. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF THESE UNDERGROUND DUCT BANKS.



LIST OF DRAWINGS & GENERAL NOTES

NO.	DATE	REVISIONS

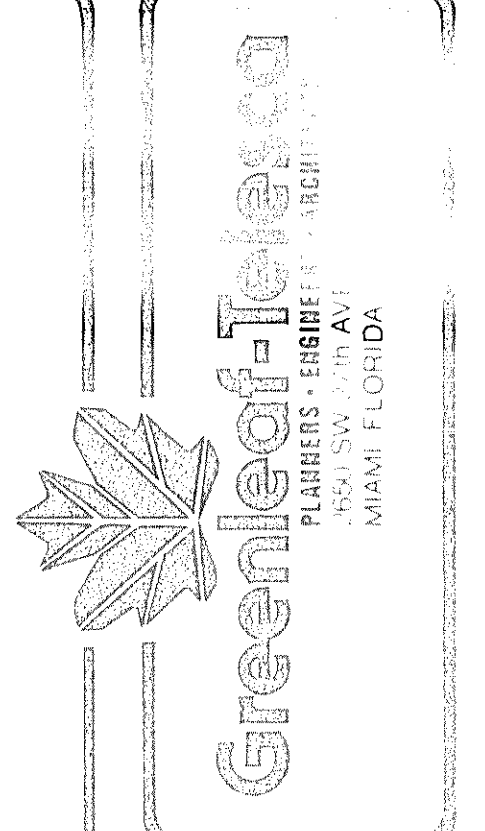
CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT



COORDINATES SCHEDULE		
POINT #	NORTH	EAST
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2	5160.6352	5148.8433
3	5513.2944	5613.2331
4	4962.9985	5738.4963
5	4617.3870	6076.2652
6	5100.4541	6569.3659
7	4930.5496	6732.2971
8	5197.7166	7003.2313
9	5494.3091	6713.0539
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12	5216.8364	5681.3552
13	4949.5000	5054.4376
14	5930.2230	6033.3376
15	6023.4096	5942.1569
16	5569.4777	5578.4889
17	5584.6977	5578.4889
18	5278.6066	5301.5966
19	5110.3132	5431.5747
20	5575.7182	6523.4890

GENERAL SURVEY NOTES

1. THESE PLANS ARE BASED ON GROUND SURVEYS BY BISCAYNE ENGINEERING CO., INC., CERTIFIED BY GEORGE C. BOLTON, REGISTERED LAND SURVEYOR, DATED 29 AUGUST 1984.
2. BEARINGS SHOWN ON SURVEY REFER TO THOSE ON THE LEGAL DESCRIPTION OF THE HISTORICAL SITE DESIGNATED AS THE PAN AMERICAN TERMINAL BUILDING; WHICH ASSUMED THE TRUE NORTH ALONG THE WEST LINE OF SECTION 22-84-41.
3. ELEVATIONS SHOWN REFER TO THE CITY OF MIAMI DATUM.
4. BENCH MARK, CITY OF MIAMI P.K. NAIL AND BRASS WASHER IN TOP OF CURB AT MID POINT OF P.C. RETURN AT THE SOUTHWEST CORNER OF SOUTH BAYSHORE DRIVE AND S.W. 27 AVENUE. ELEVATION 8.392 FEET.
5. LIMITS OF WORK SHOWN ARE GENERAL. FOR EXACT LIMITS SEE APPROPRIATE DRAWINGS.
6. FOR NEW REEF CONSTRUCTION SEE SHEET NO. C.
7. FOR LIMITS OF DREDGING SEE SHEET NO. C.

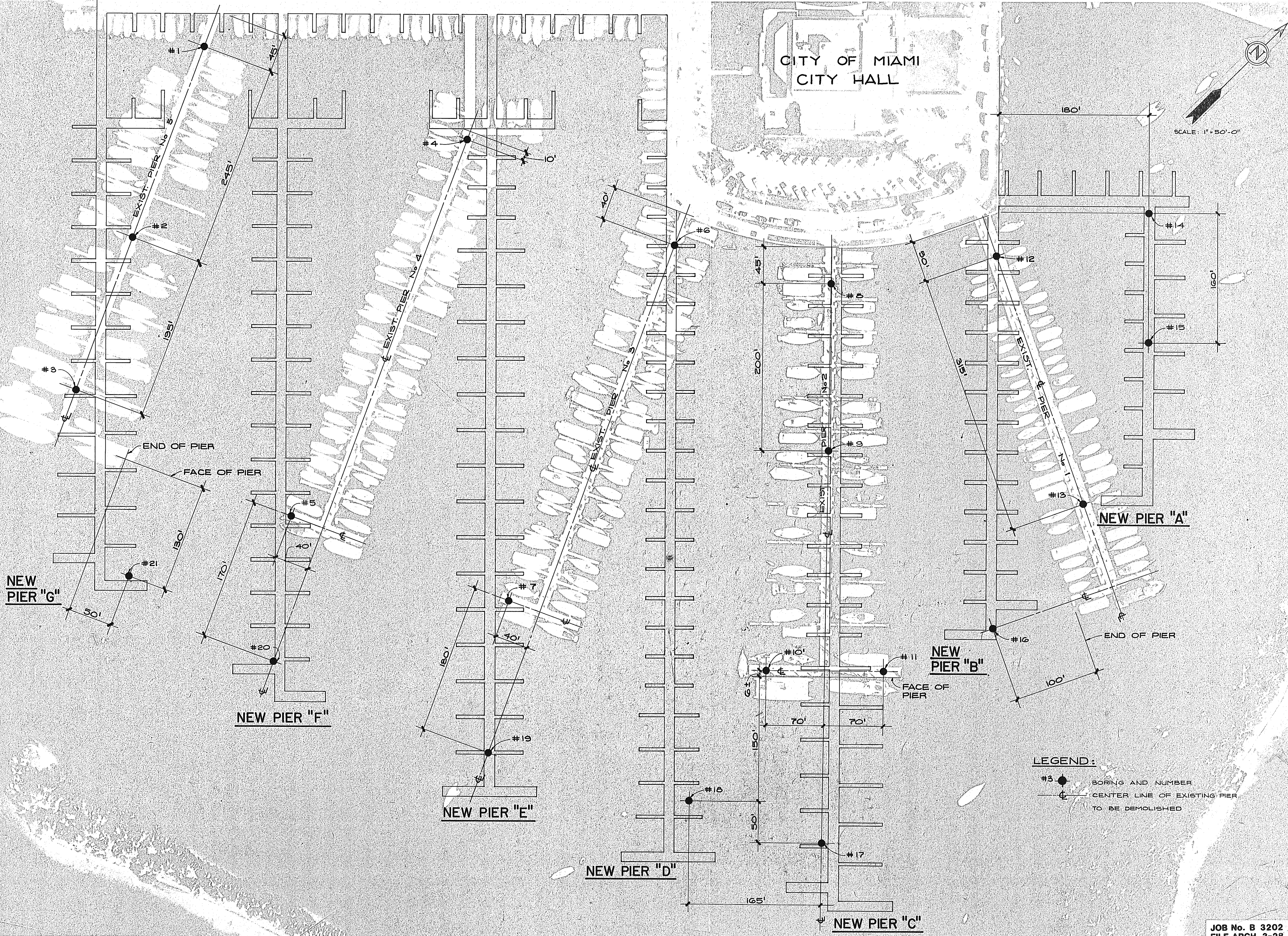


EXISTING SITE PLAN
SURVEY CONTROL POINTS
AND LIMITS OF WORK

REVISIONS

NO.	DATE

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

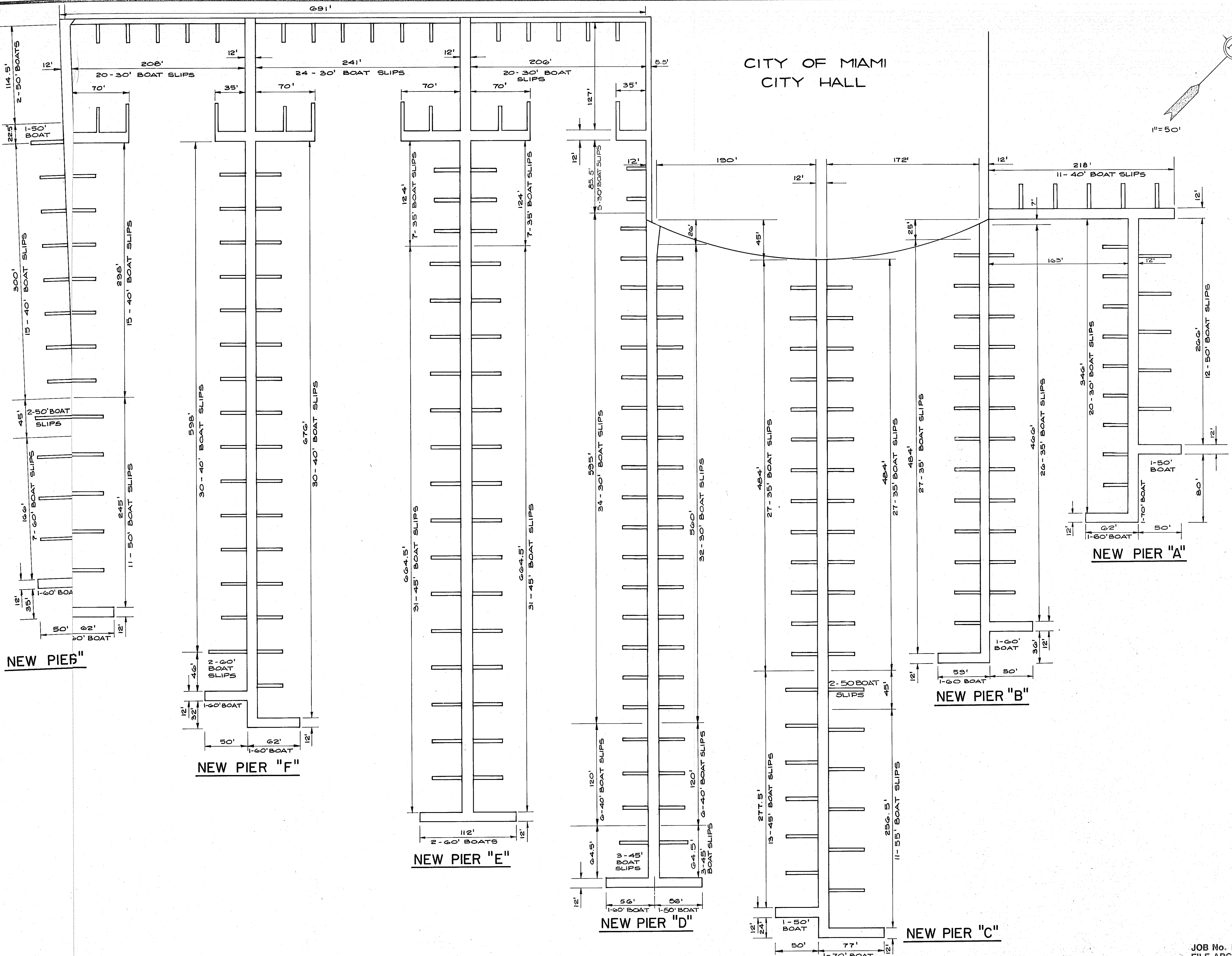


CITY OF MIAMI
CITY HALL

SCALE: 1" = 50'-0"

NO.	DATE	REVISIONS

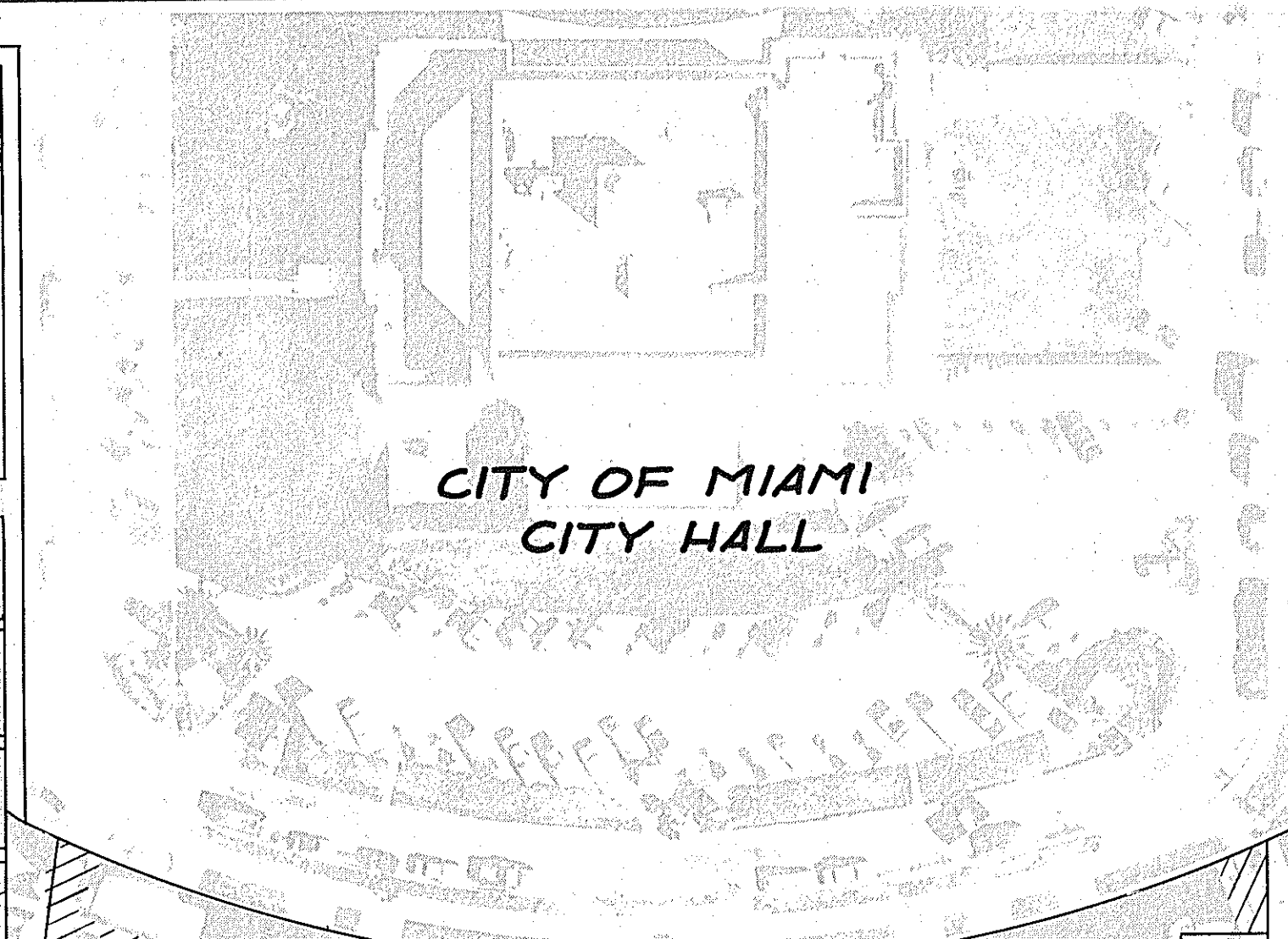
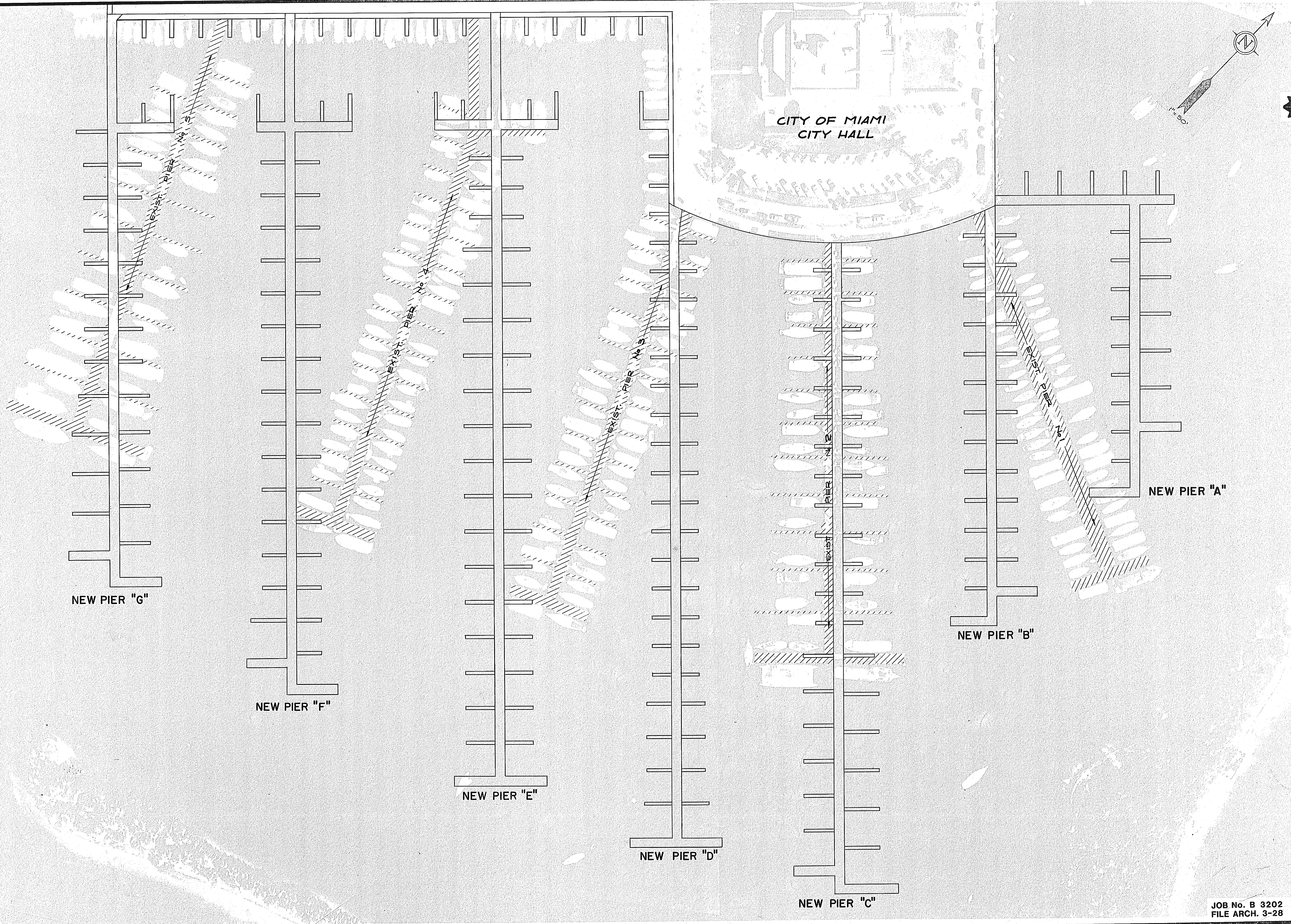
CITY OF MIAMI
CITY HALL



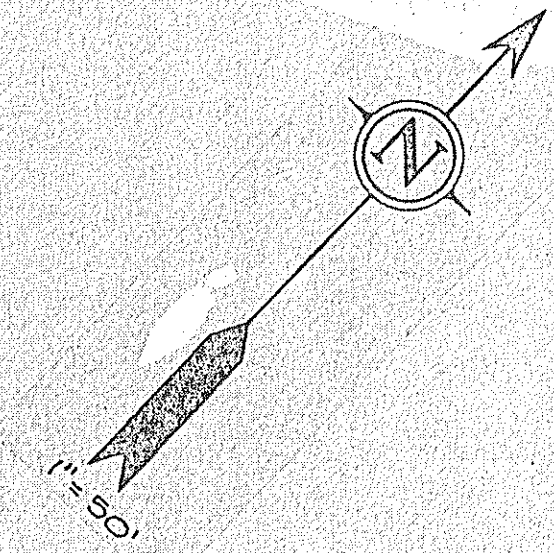
REVISIONS

NO.	DATE	REVISIONS

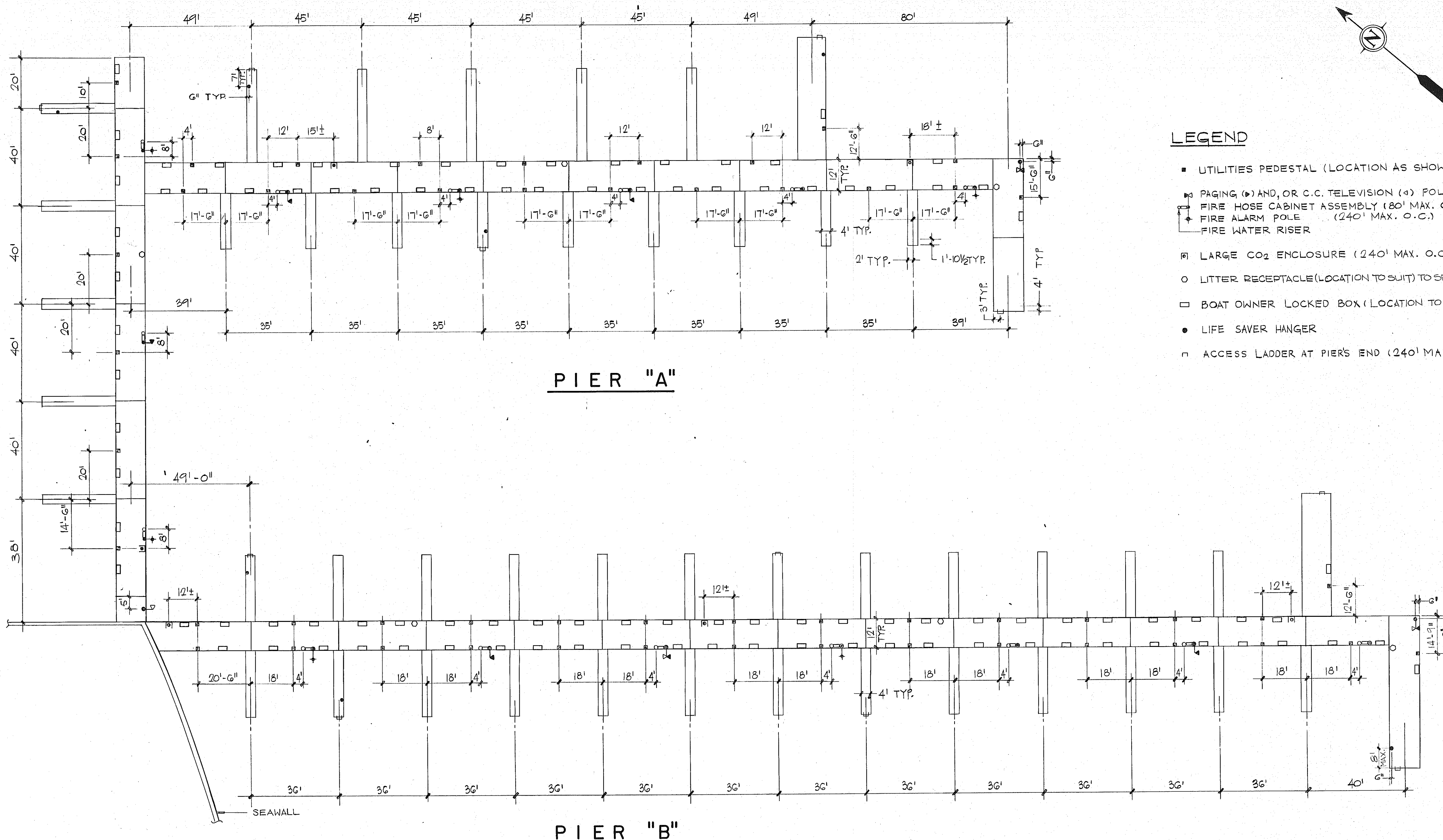
CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT



CITY OF MIAMI
CITY HALL



NO.	DATE	REVISIONS



PIER "A"

PIER "B"

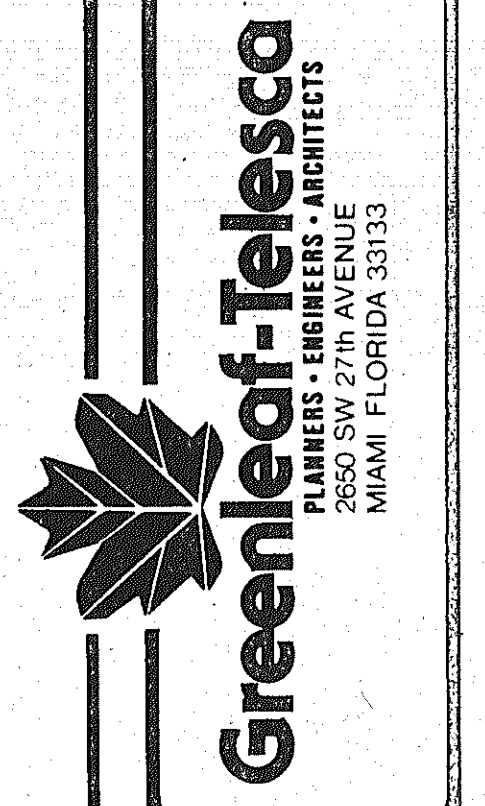
LEGEND

- UTILITIES PEDESTAL (LOCATION AS SHOWN)
- ⊕ PAGING (P) AND, OR C.C. TELEVISION (TV) POLE
- ⊕ FIRE HOSE CABINET ASSEMBLY (80' MAX. O.C.)
- ⊕ FIRE ALARM POLE (240' MAX. O.C.)
- ⊕ FIRE WATER RISER
- ⊕ LARGE CO₂ ENCLOSURE (240' MAX. O.C.)
- LITTER RECEPTACLE (LOCATION TO SUIT) TO SERVE 10 BOATS ±
- BOAT OWNER LOCKED BOX (LOCATION TO SUIT)
- LIFE SAVER HANGER
- ⊕ ACCESS LADDER AT PIERS END (240' MAX. O.C.)

NOTES:

- 1.- DIMENSIONS SHOWN FOR UTILITIES PEDESTALS, POLES (PAGING, FIRE ALARM, C.C. TELEVISION) AND FIRE WATER RISERS ARE APPROXIMATED. THEY SHOULD BE LOCATED ON THE C OF THE 4" BEAM SLEEVE CLOSEST TO LOCATION DESIGNATED
- 2.- FOR DETAIL UTILITIES PEDESTAL SEE SH. No C-42
- 3.- FOR FIRE HOSE CABINET ASSEMBLY DETAIL SEE SH. No C-43
- 4.- FOR ACCESS LADDER DETAIL SEE SH. No C-43
- 5.- FOR TRASH CONTAINER DETAIL AT PIERS END SEE SH. No C-44
- 6.- FOR BOAT OWNER LOCKED BOX DETAIL SEE SH. No C-44
- 7.- FOR PAGING, FIRE ALARM AND C.C. TELEVISION POLE DETAIL SEE ELECT. DRAWINGS.
- 8.- FOR LIFE SAVER HANGER DETAIL SEE ELECT. DWG'S.
- 9.- FOR LARGE CO₂ TANK ENCLOSURE DETAIL SEE SH. No C-
- 10.- FOR LITTER RECEPTACLE
- 11.- LOCATION OF ALL ITEMS SHOWN IN LEGEND TO BE APPROVED BY FIELD ENGINEER PRIOR TO INSTALLATION.

JOB No. B 3202
FILE ARCH. 3-28



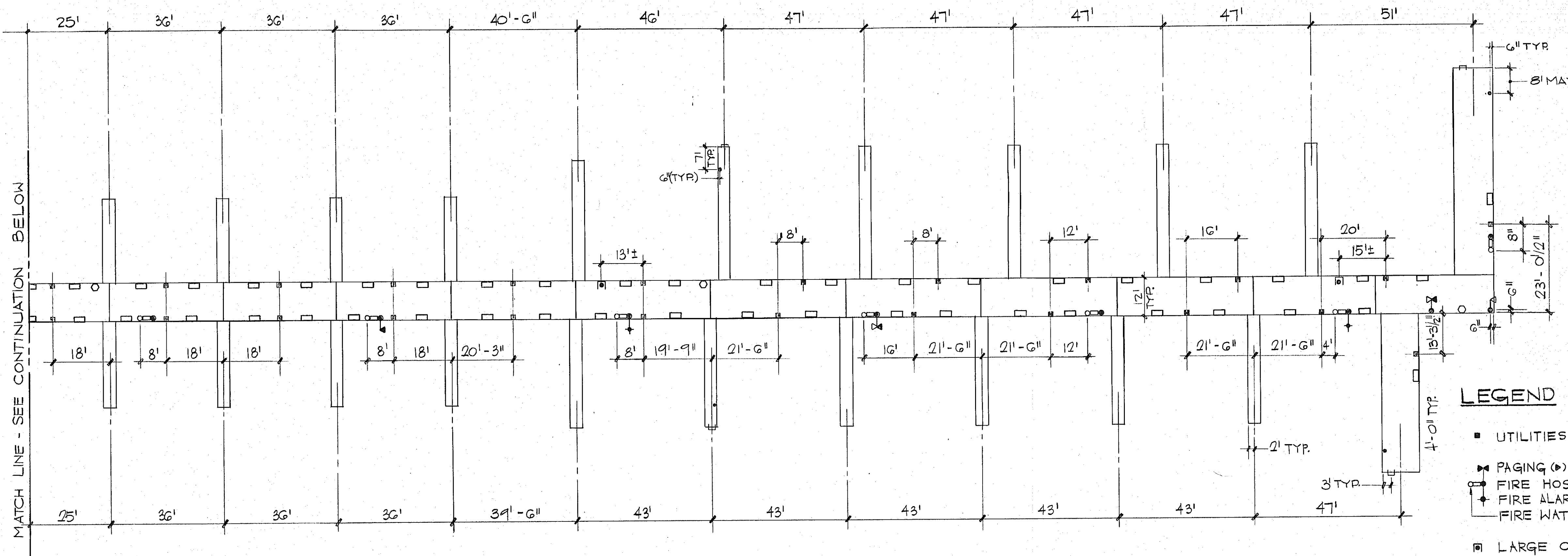
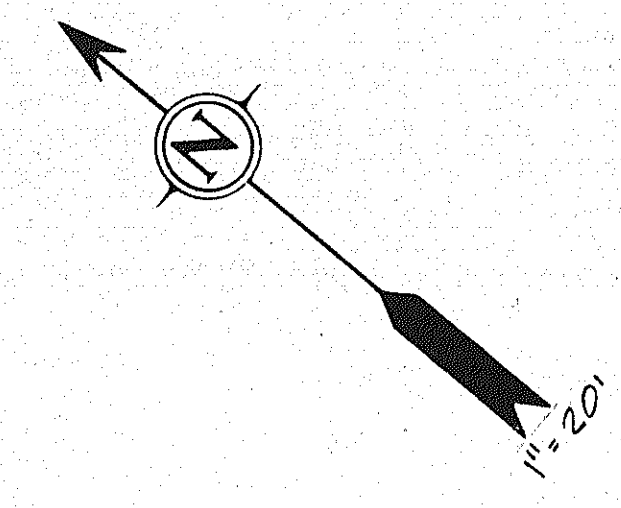
OCEAN SIDE
UTILITY PEDESTALS, POLES AND
MISCELLANEOUS LAYOUT PLAN
PIERS "A" & "B"

REVISIONS

NO.	DATE	DESCRIPTION

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

CHK'D. APP'D.
DES. DWG. SHEET
C 5 OF 61
DATE: NOV. 1984
FILE: 1790.80-

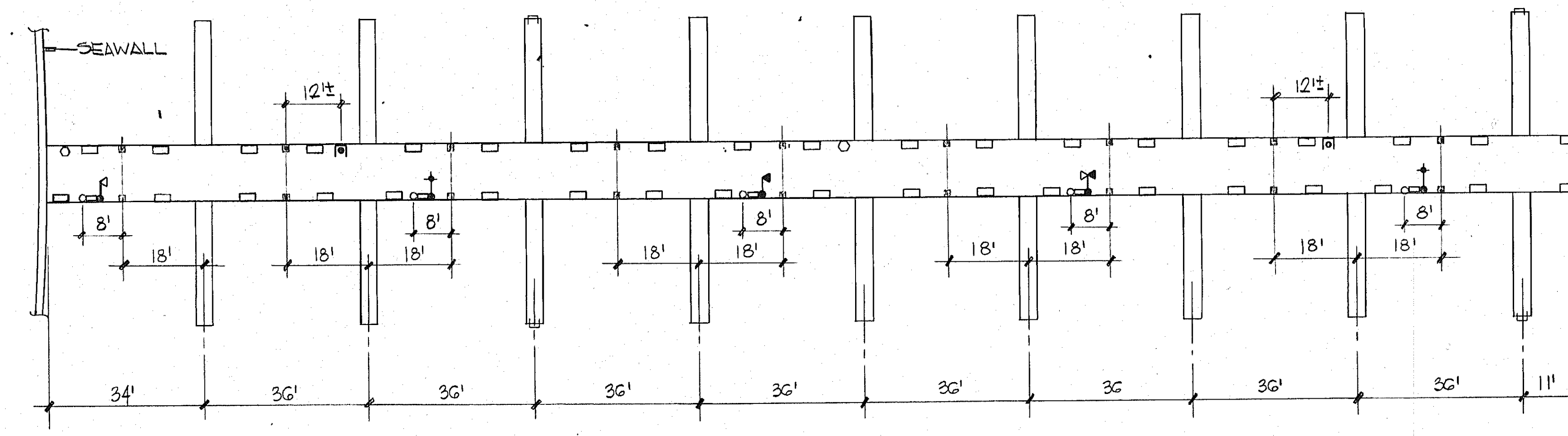


MATCH LINE - SEE CONTINUATION BELOW

LEGEND

- UTILITIES PEDESTAL (LOCATION AS SHOWN)
- ▶ PAGING (P) AND, OR C. C. TELEVISION (T) POLE
- ⊕ FIRE HOSE CABINET ASSEMBLY (80' MAX. O.C.)
- ⊕ FIRE ALARM POLE (240' MAX. O.C.)
- ⊕ FIRE WATER RISER
- ▣ LARGE CO₂ ENCLOSURE (240' MAX. O.C.)
- LITTER RECEPTACLE (TO SERVE 10 BOATS±)
LOCATION TO SUIT.
- BOAT OWNER LOCKED BOX (LOCATION TO SUIT)
- LIFE SAVER HANGER
- ACCESS LADDER AT PIER'S END (240' MAX. O.C.)

SEE NOTES IN SH. No C-5



MATCH LINE - SEE CONTINUATION ABOVE

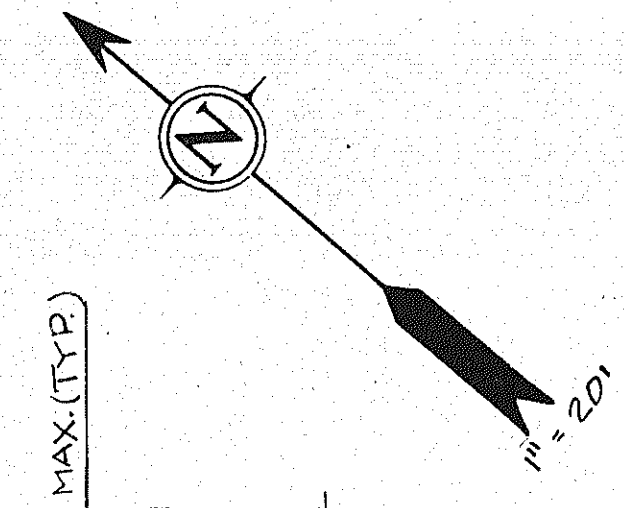
PIER "C"

REVISIONS

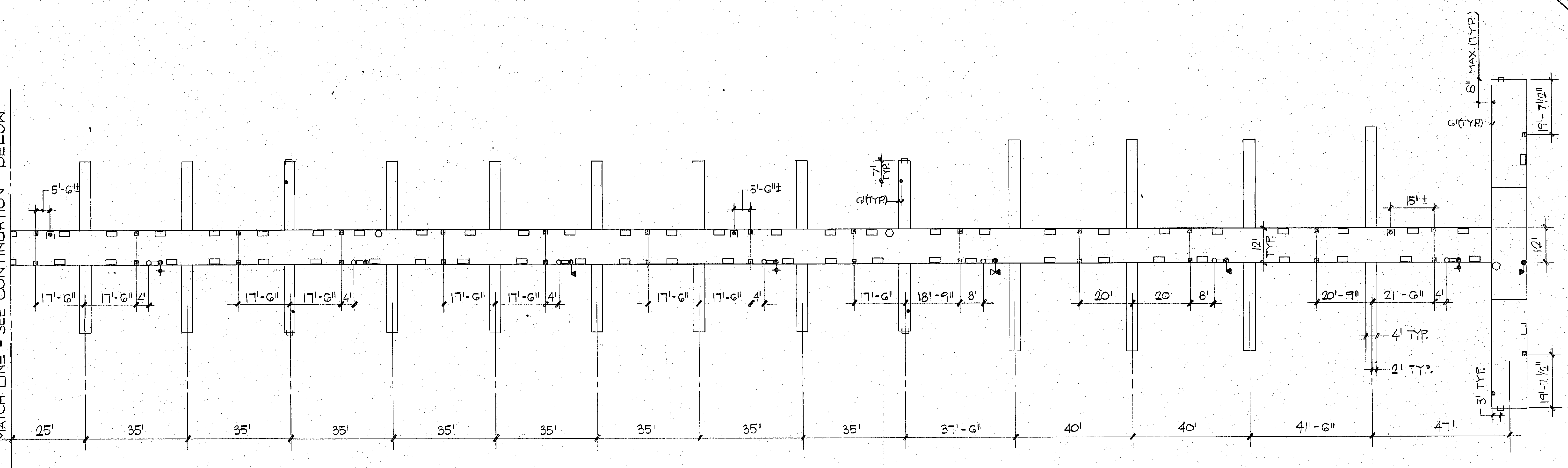
NO.	DATE	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION



MATCH LINE - SEE CONTINUATION BELOW

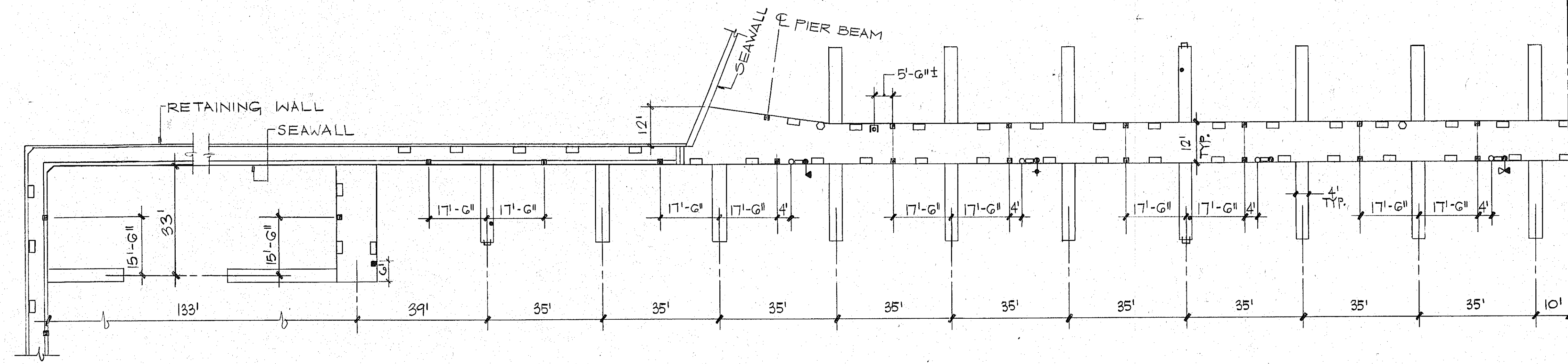


LEGEND

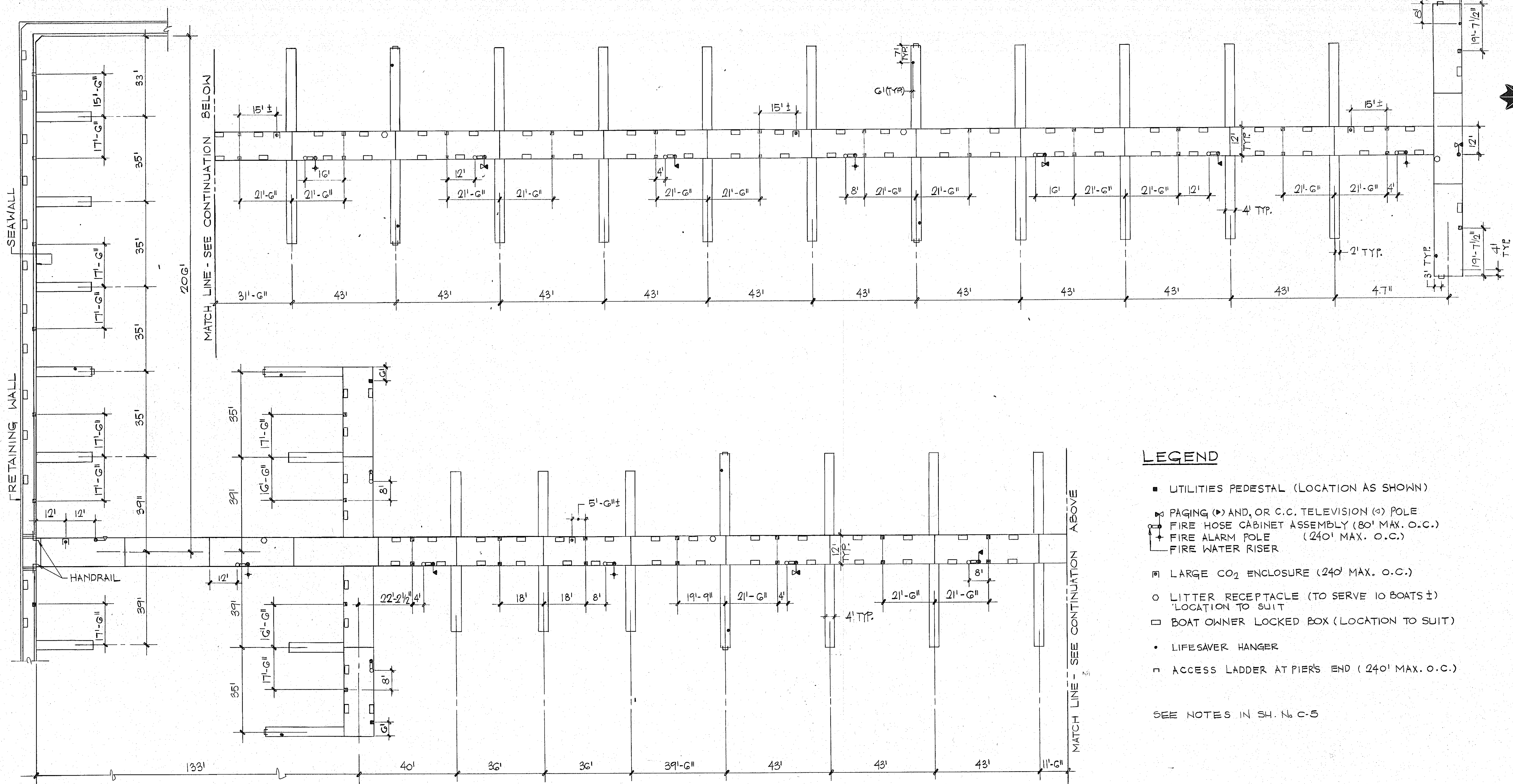
- UTILITIES PEDESTAL (LOCATION AS SHOWN)
- PAGING (P) AND, OR C.C. TELEVISION (T) POLE
- FIRE HOSE CABINET ASSEMBLY (80' MAX. O.C.)
- FIRE ALARM POLE (240' MAX. O.C.)
- FIRE WATER RISER
- LARGE CO₂ ENCLOSURE (240' MAX. O.C.)
- LITTER RECEPTACLE (TO SERVE 10 BOATS±)
LOCATION TO SUIT
- BOAT OWNER LOCKED BOX (LOCATION TO SUIT)
- LIFESAVER HANGER
- ACCESS LADDER AT PIER'S END (240' MAX. O.C.)

SEE NOTES IN SH. No C-5

MATCH LINE - SEE CONTINUATION ABOVE



PIER "D"

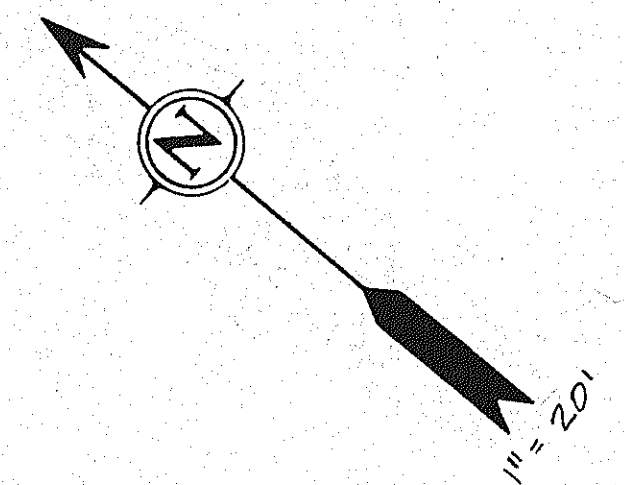


PIER "E"

LEGEND

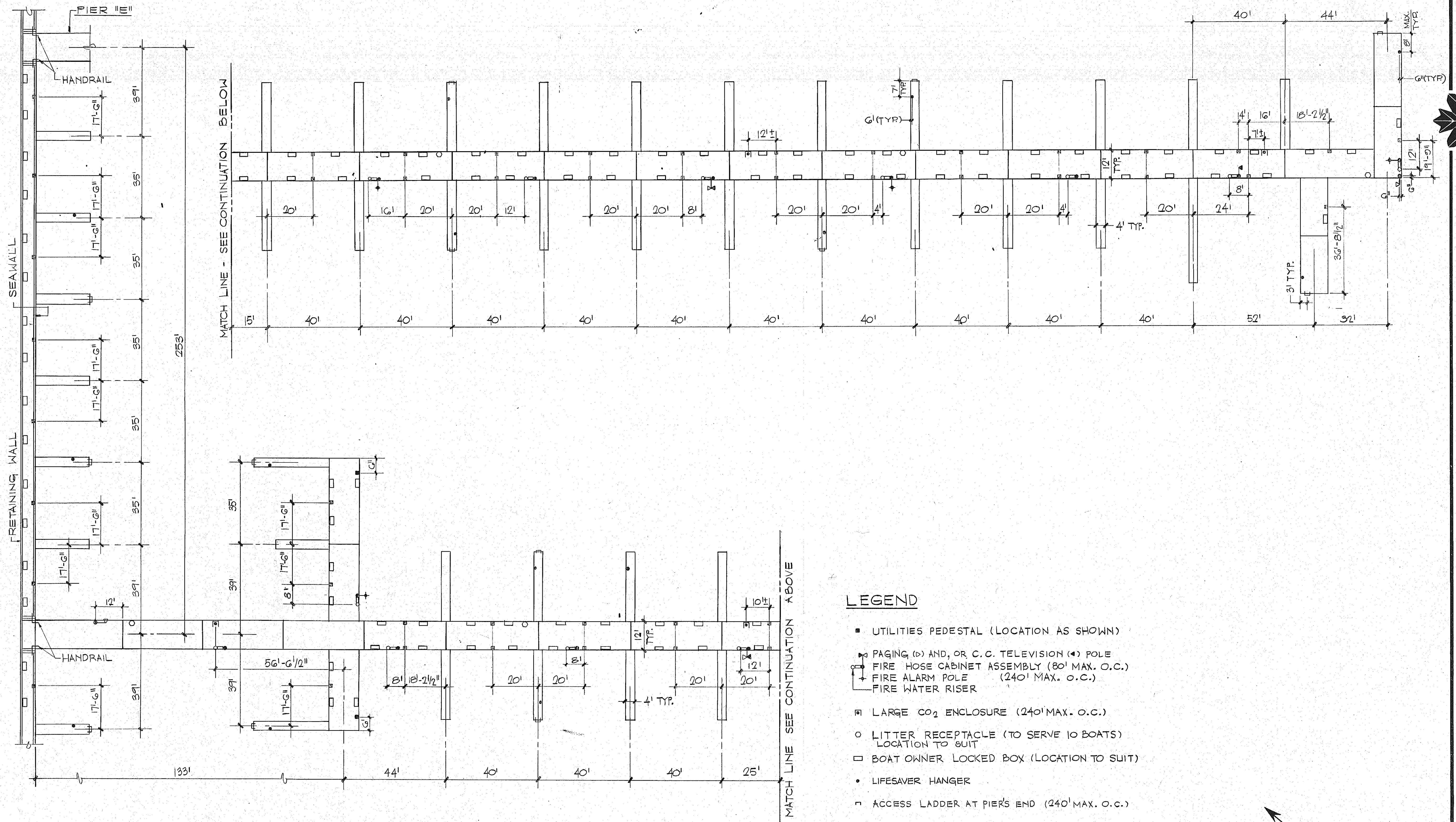
- UTILITIES PEDESTAL (LOCATION AS SHOWN)
- PAGING (P) AND, OR C.C. TELEVISION (T) POLE
- FIRE HOSE CABINET ASSEMBLY (80' MAX. O.C.)
- FIRE ALARM POLE (240' MAX. O.C.)
- FIRE WATER RISER
- LARGE CO₂ ENCLOSURE (240' MAX. O.C.)
- LITTER RECEPTACLE (TO SERVE 10 BOATS ±)
LOCATION TO SUIT
- BOAT OWNER LOCKED BOX (LOCATION TO SUIT)
- LIFESAVER HANGER
- ACCESS LADDER AT PIER'S END (240' MAX. O.C.)

SEE NOTES IN SH. NO. C-5



REVISIONS

NO.	DATE

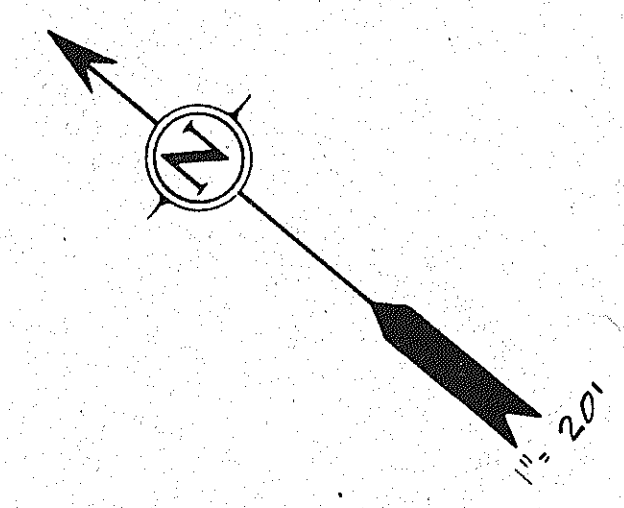


PIER "F"

LEGEND

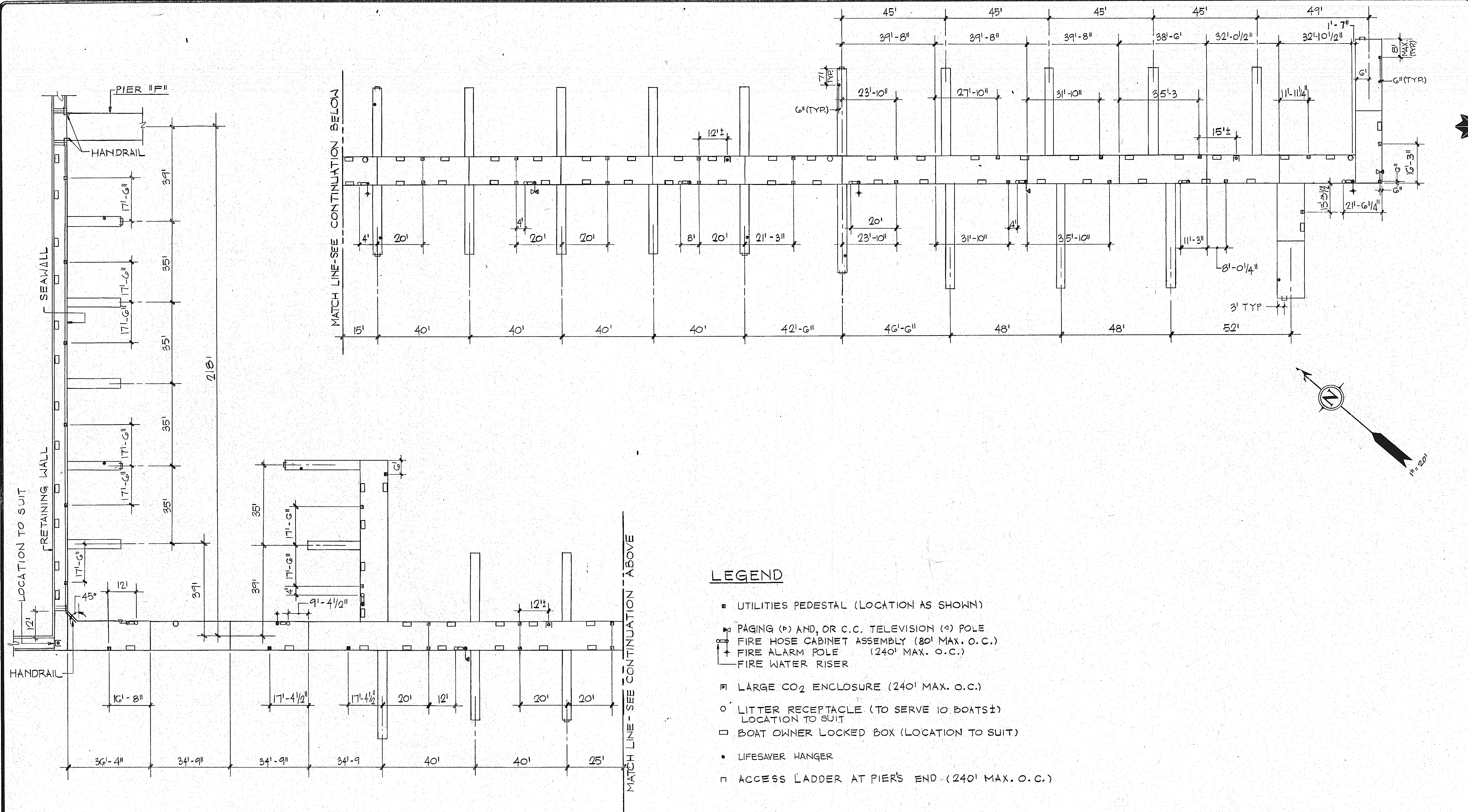
- UTILITIES PEDESTAL (LOCATION AS SHOWN)
- ⚡ PAGING (P) AND, OR C. C. TELEVISION (T) POLE
- 🔥 FIRE HOSE CABINET ASSEMBLY (80' MAX. O.C.)
- 🔥 FIRE ALARM POLE (240' MAX. O.C.)
- 🔥 FIRE WATER RISER
- 📦 LARGE CO₂ ENCLOSURE (240' MAX. O.C.)
- LITTER RECEPTACLE (TO SERVE 10 BOATS)
LOCATION TO SUIT
- 🔒 BOAT OWNER LOCKED BOX (LOCATION TO SUIT)
- LIFESAVER HANGER
- 🪜 ACCESS LADDER AT PIER'S END (240' MAX. O.C.)

SEE NOTES IN SH. No. C-5



REVISIONS

NO.	DATE	DESCRIPTION

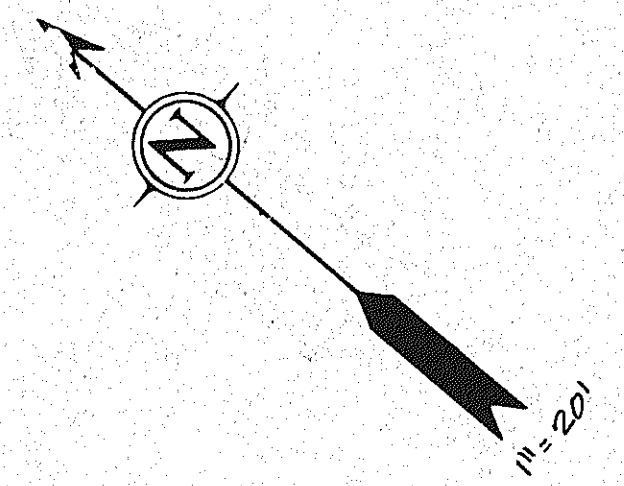


PIER "G"

LEGEND

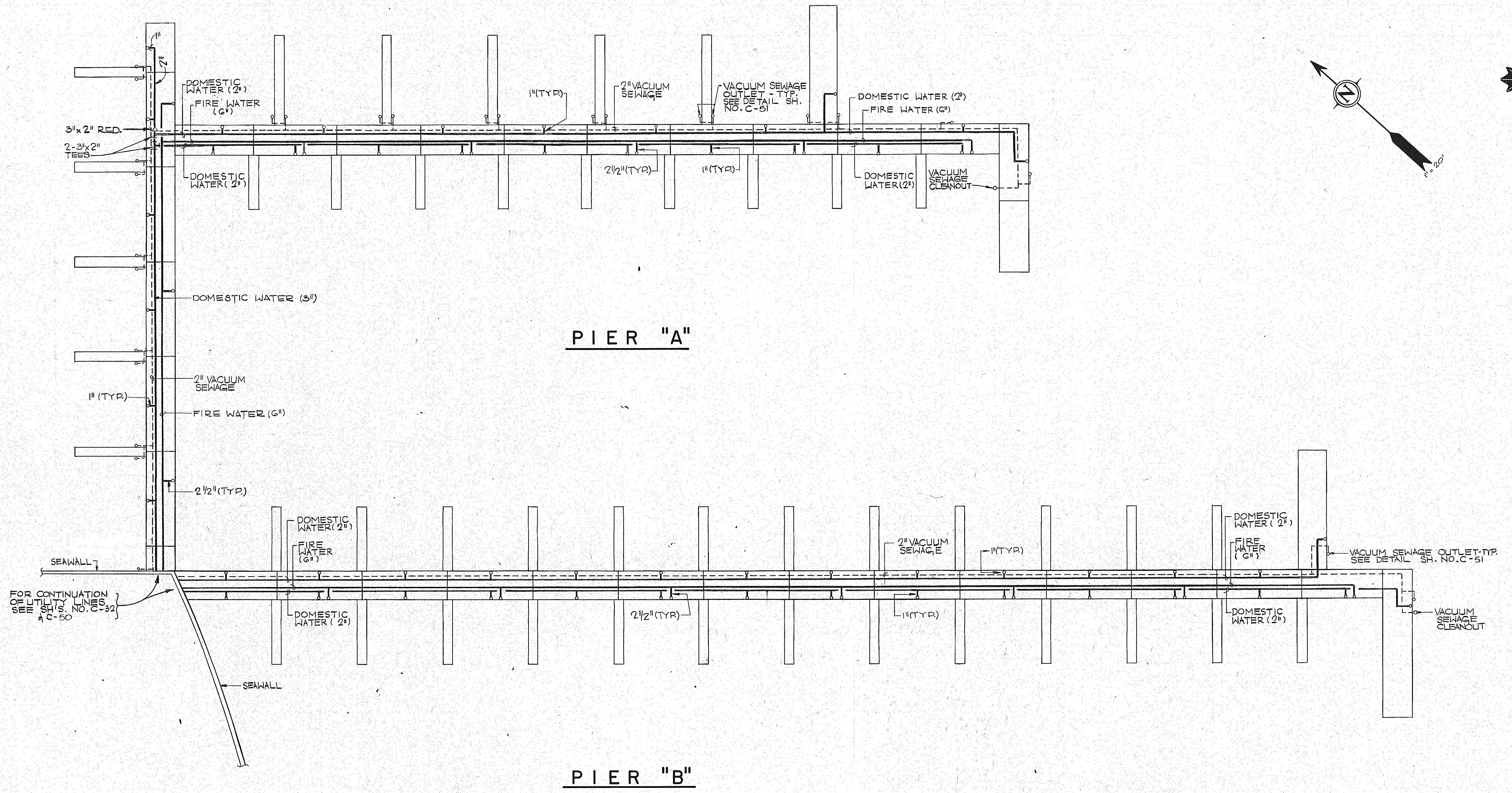
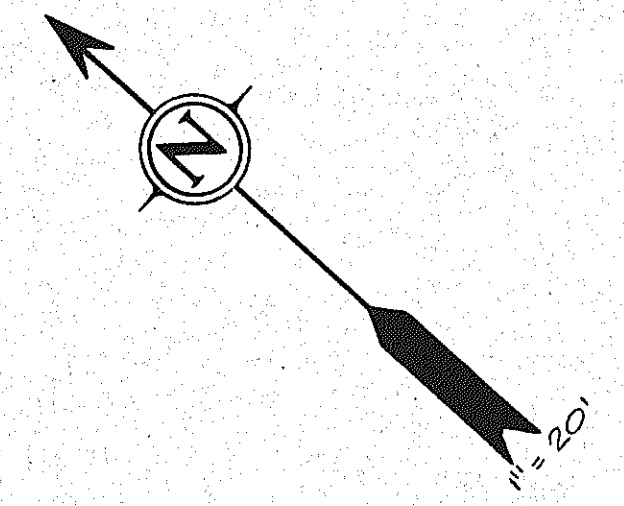
- UTILITIES PEDESTAL (LOCATION AS SHOWN)
- ⊙ PAGING (P) AND, OR C.C. TELEVISION (T) POLE
- ⊕ FIRE HOSE CABINET ASSEMBLY (80' MAX. O.C.)
- ⊕ FIRE ALARM POLE (240' MAX. O.C.)
- ⊕ FIRE WATER RISER
- LARGE CO₂ ENCLOSURE (240' MAX. O.C.)
- LITTER RECEPTACLE (TO SERVE 10 BOATS±)
LOCATION TO SUIT
- BOAT OWNER LOCKED BOX (LOCATION TO SUIT)
- LIFESAVER HANGER
- ACCESS LADDER AT PIER'S END (240' MAX. O.C.)

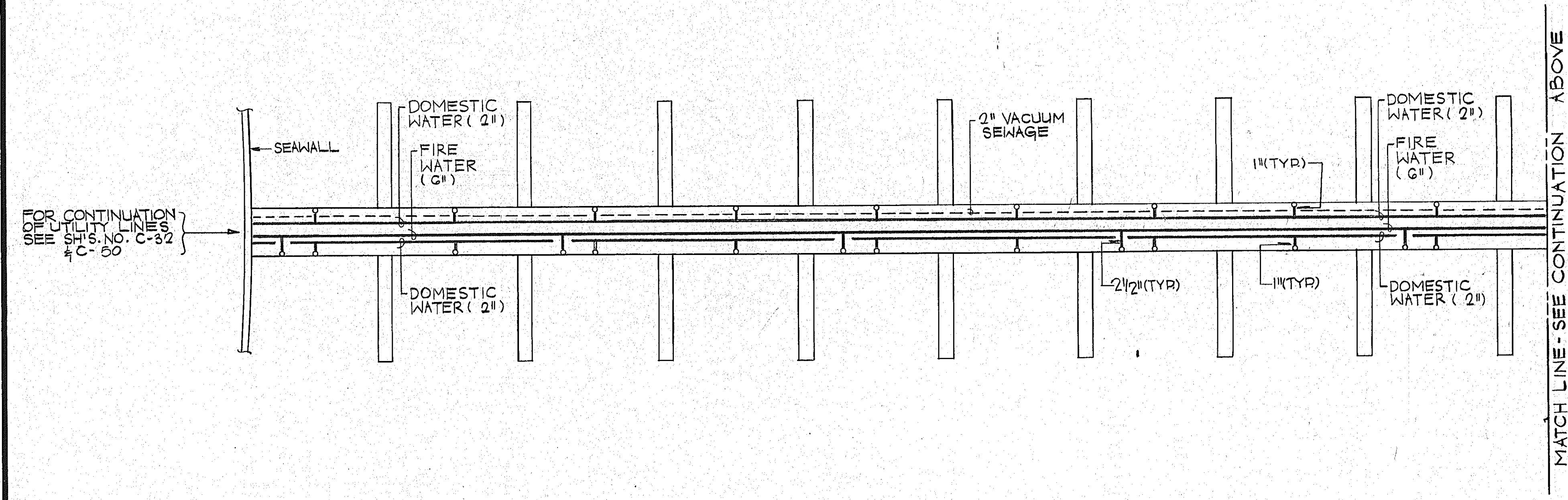
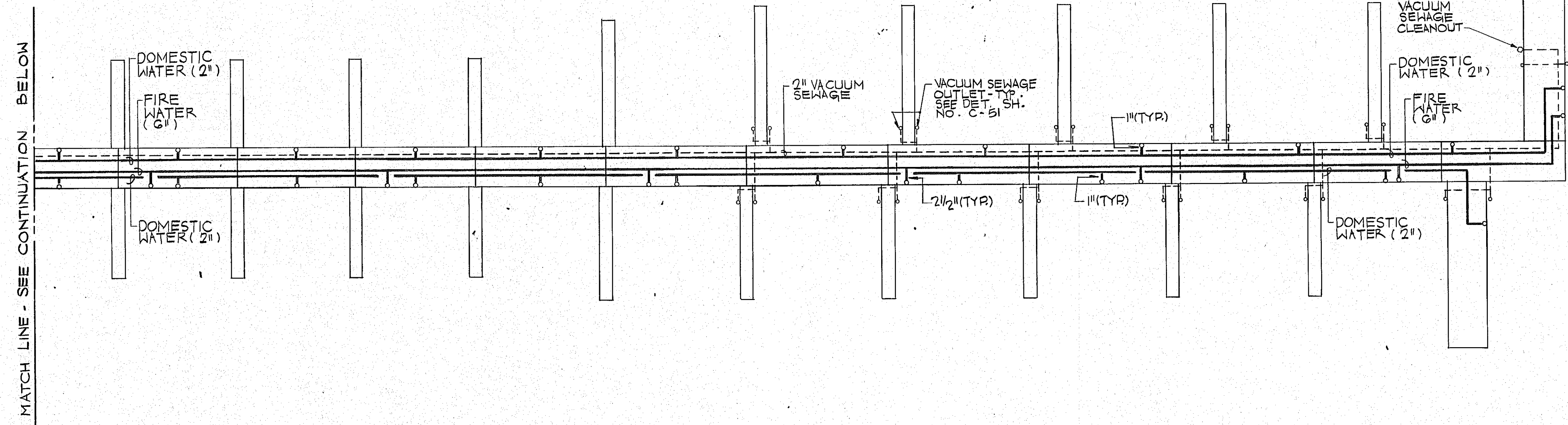
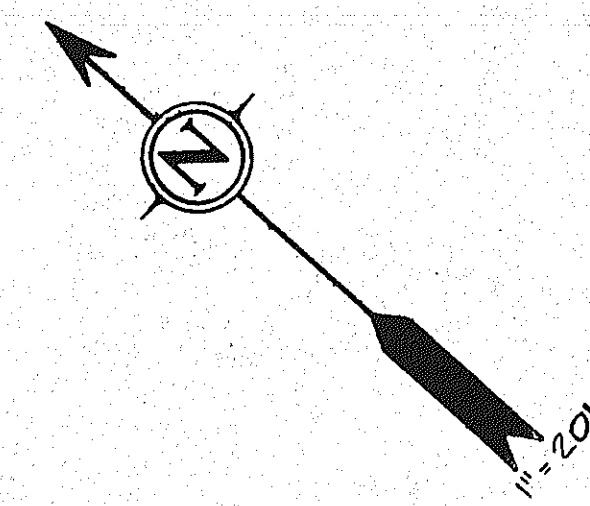
SEE NOTES IN SH. NO C-5



NO.	DATE	REVISIONS

NO.	DATE	REVISIONS



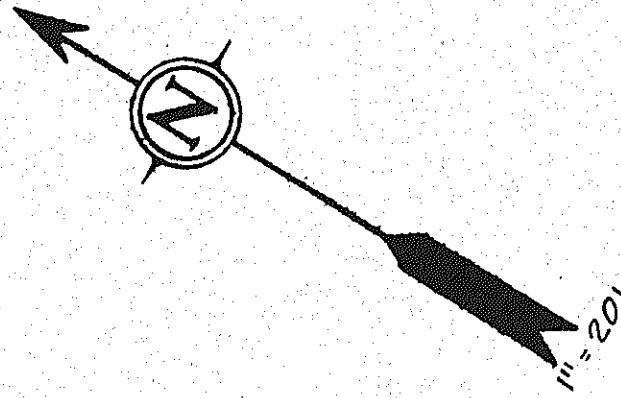
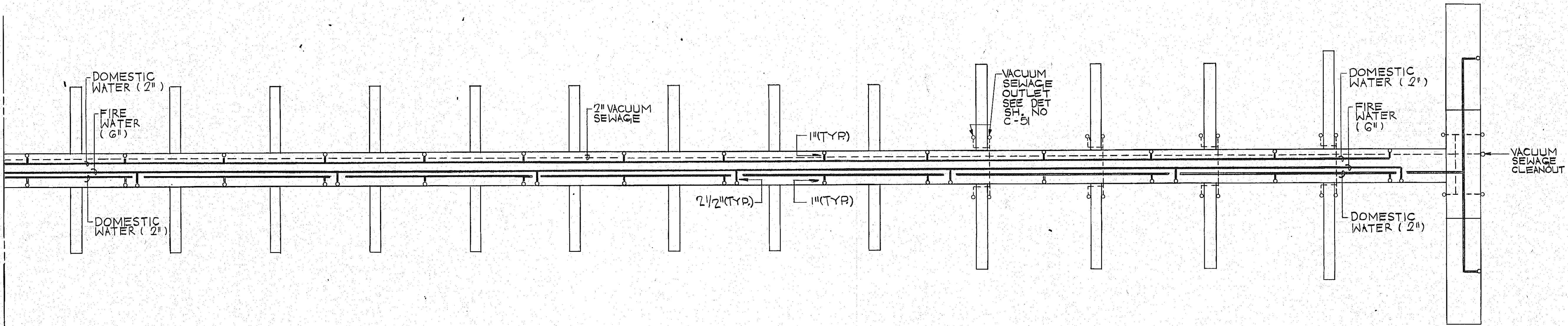


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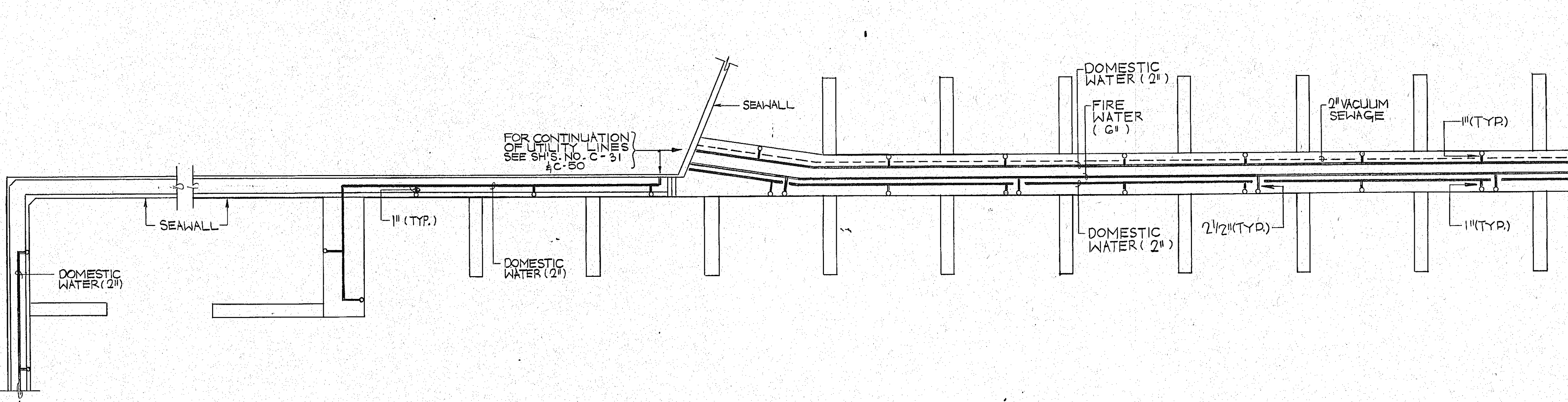
REVISIONS

NO.	DATE	DESCRIPTION

MATCH LINE - SEE CONTINUATION BELOW

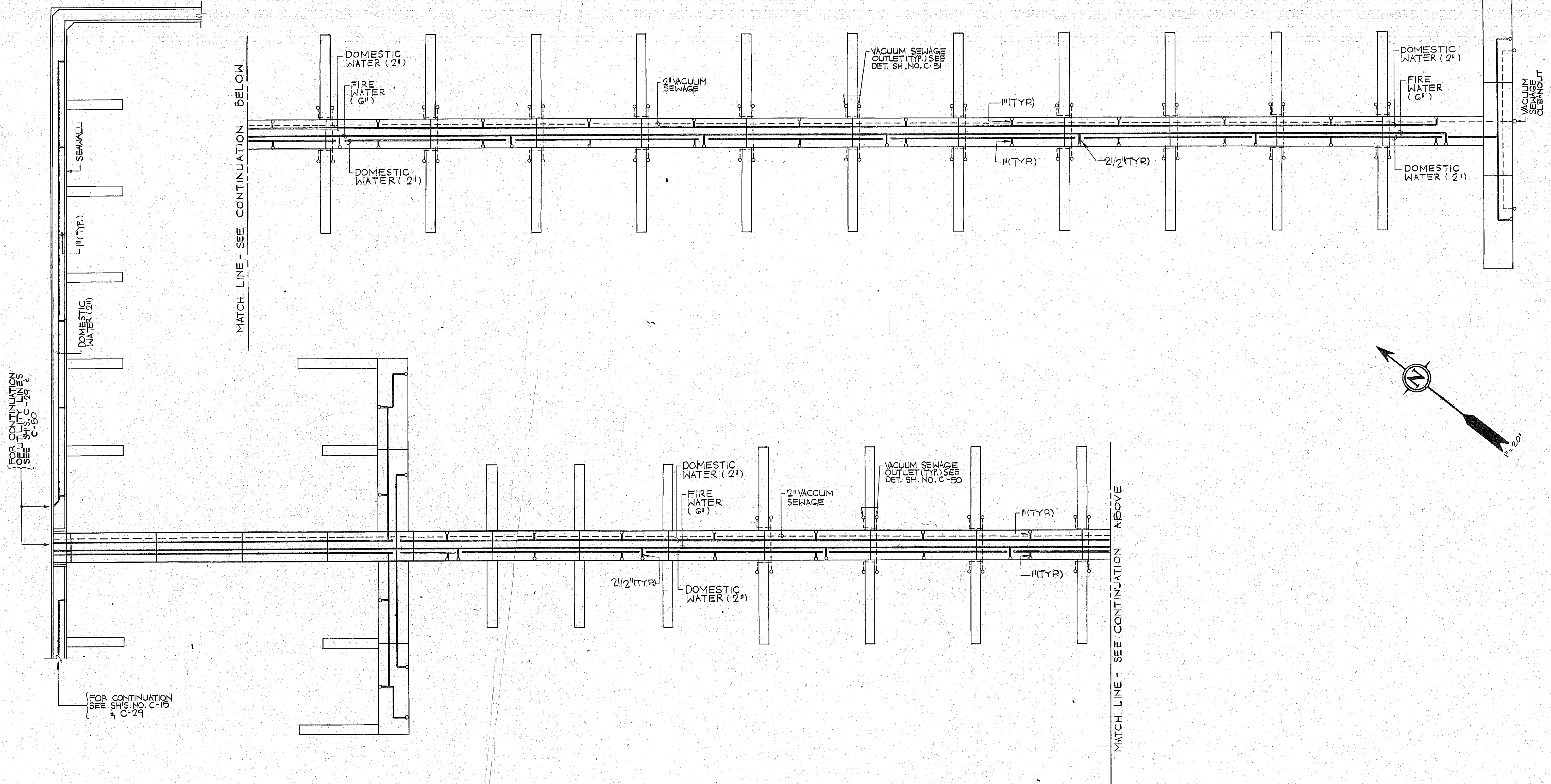


MATCH LINE - SEE CONTINUATION ABOVE

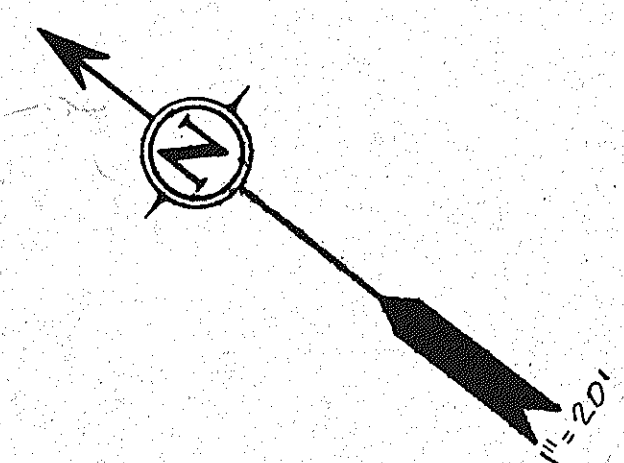


PIER "D"

FOR CONTINUATION
 SEE SH'S. NO. C-14
 & C-30

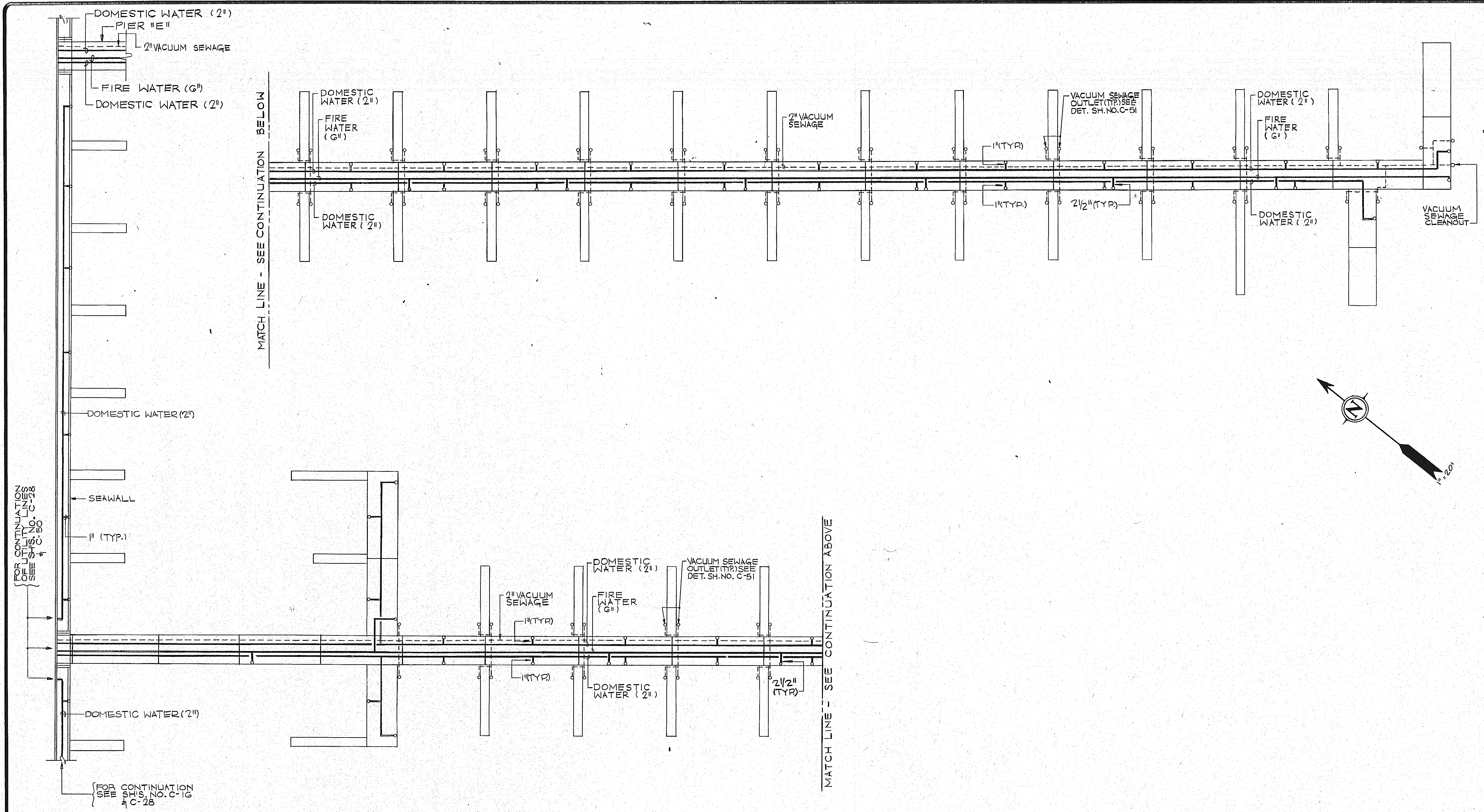


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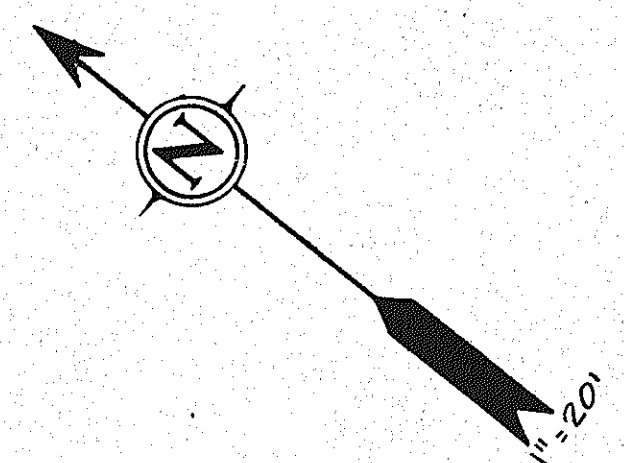


REVISIONS

NO.	DATE	DESCRIPTION

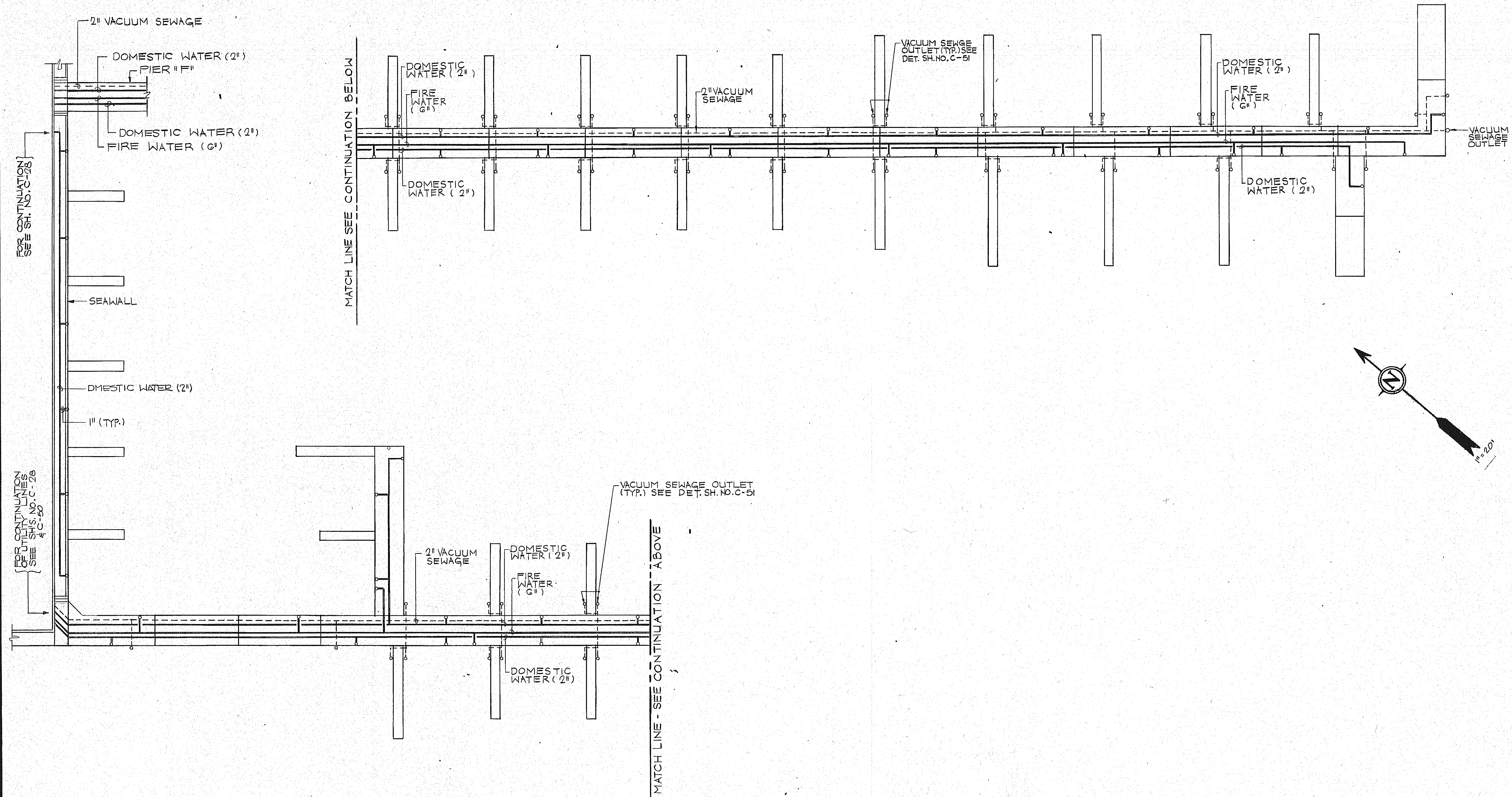


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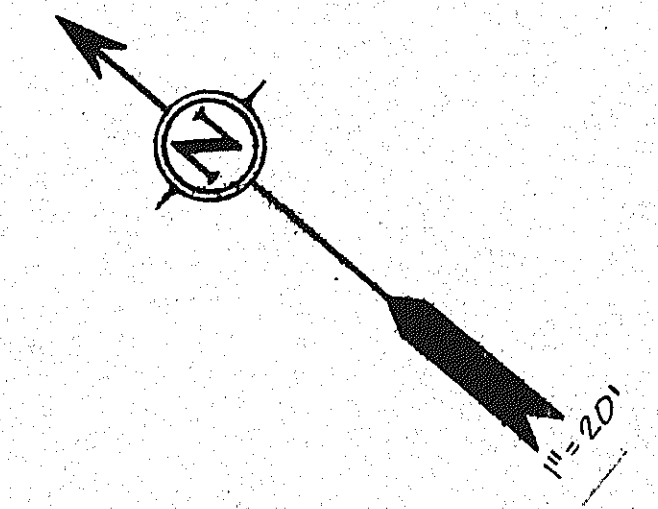


REVISIONS

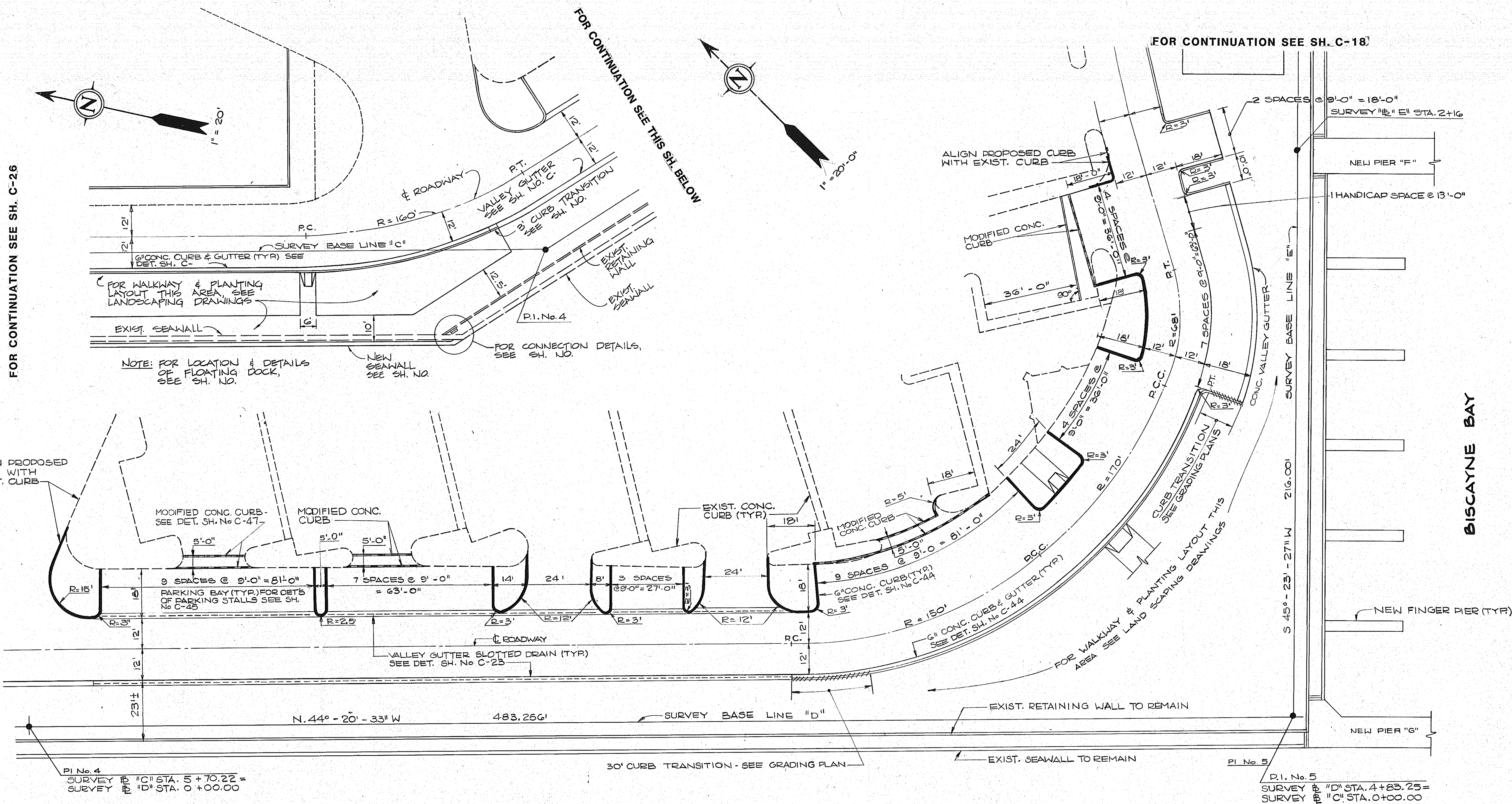
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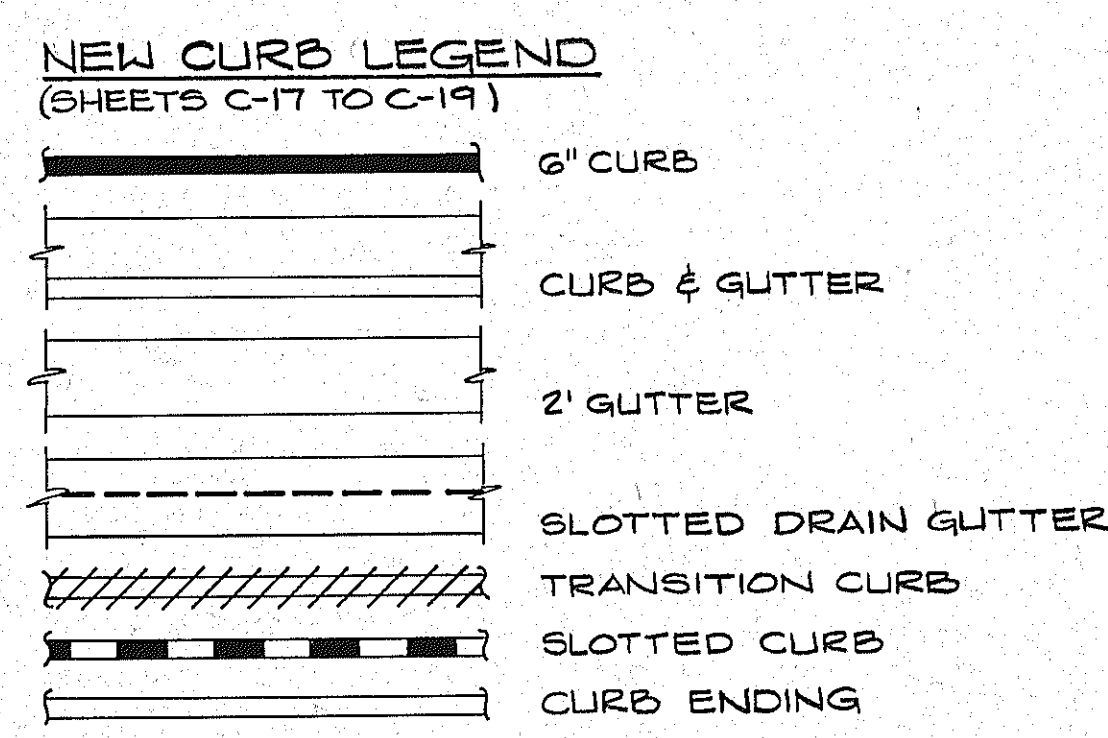
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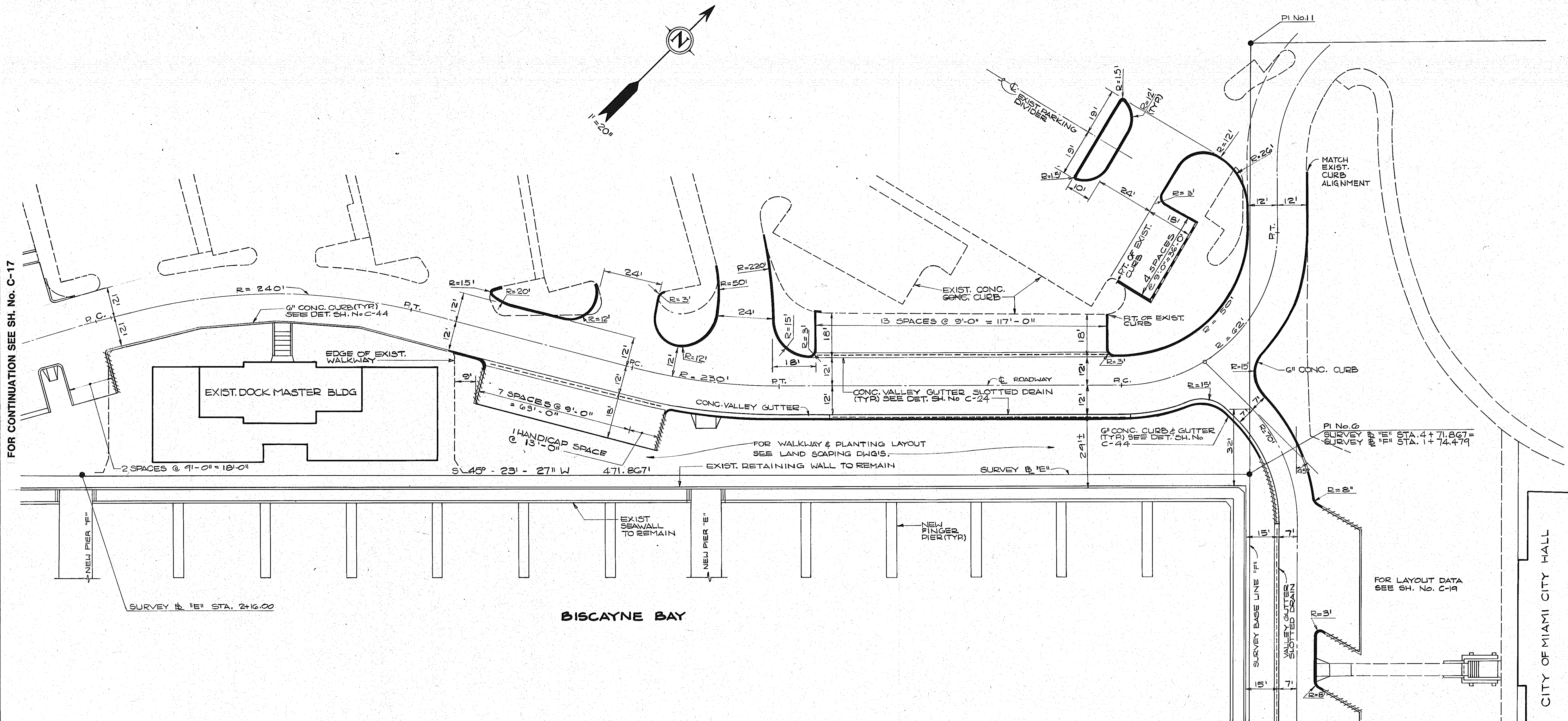
NO.	DATE	REVISIONS



- GENERAL NOTES:**
1. SEE GENERAL SURVEY NOTES SH. No. C-1.
 2. NEW LAYOUT CONTROL POINTS ARE BASED ON EXISTING CURBS OR SEAWALL ALIGNMENT. ANY FIELD DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
 3. CONTRACTOR SHALL LAYOUT AND ESTABLISH ALL NECESSARY CONTROL POINTS PRIOR TO ANY FINAL WORK TO ASCERTAIN CONTINUITY OF LAYOUT.
 4. FOR SIDEWALKS AND PLANTING LAYOUT SEE LANDSCAPING PLANS.
 5. CONTRACTOR SHALL REESTABLISH ANY SURVEY OR CONTROL POINTS THAT ARE DESTROYED OR DISTURBED DURING CONSTRUCTION. REESTABLISHMENT TO BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
 6. FINAL 'AS BUILT' MYLAR SHALL INCLUDE CONTROL POINTS AND OFFSETS OF COMPLETED AND ACCEPTED ALIGNMENT INCLUDING NEW UTILITIES AND STRUCTURES TO THE EXISTING BASELINE.
 7. SURVEY BASELINE DATA SHOWN WAS TAKEN FROM EXISTING SURVEY AS DESCRIBED IN SH. C-1. IF ANY DISCREPANCY IS FOUND, EXISTING SURVEY SHALL GOVERN.



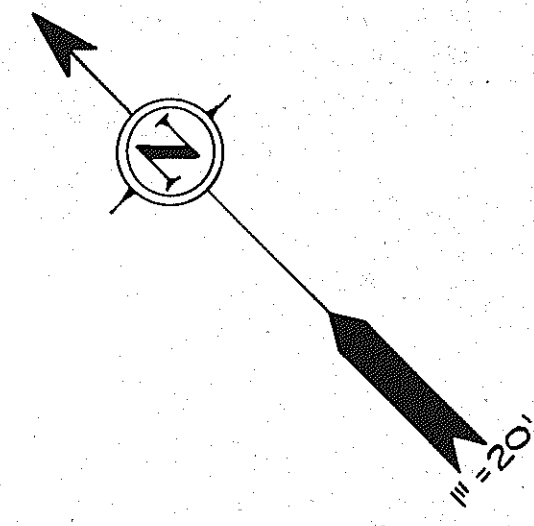
FOR CONTINUATION SEE SH. No. C-17



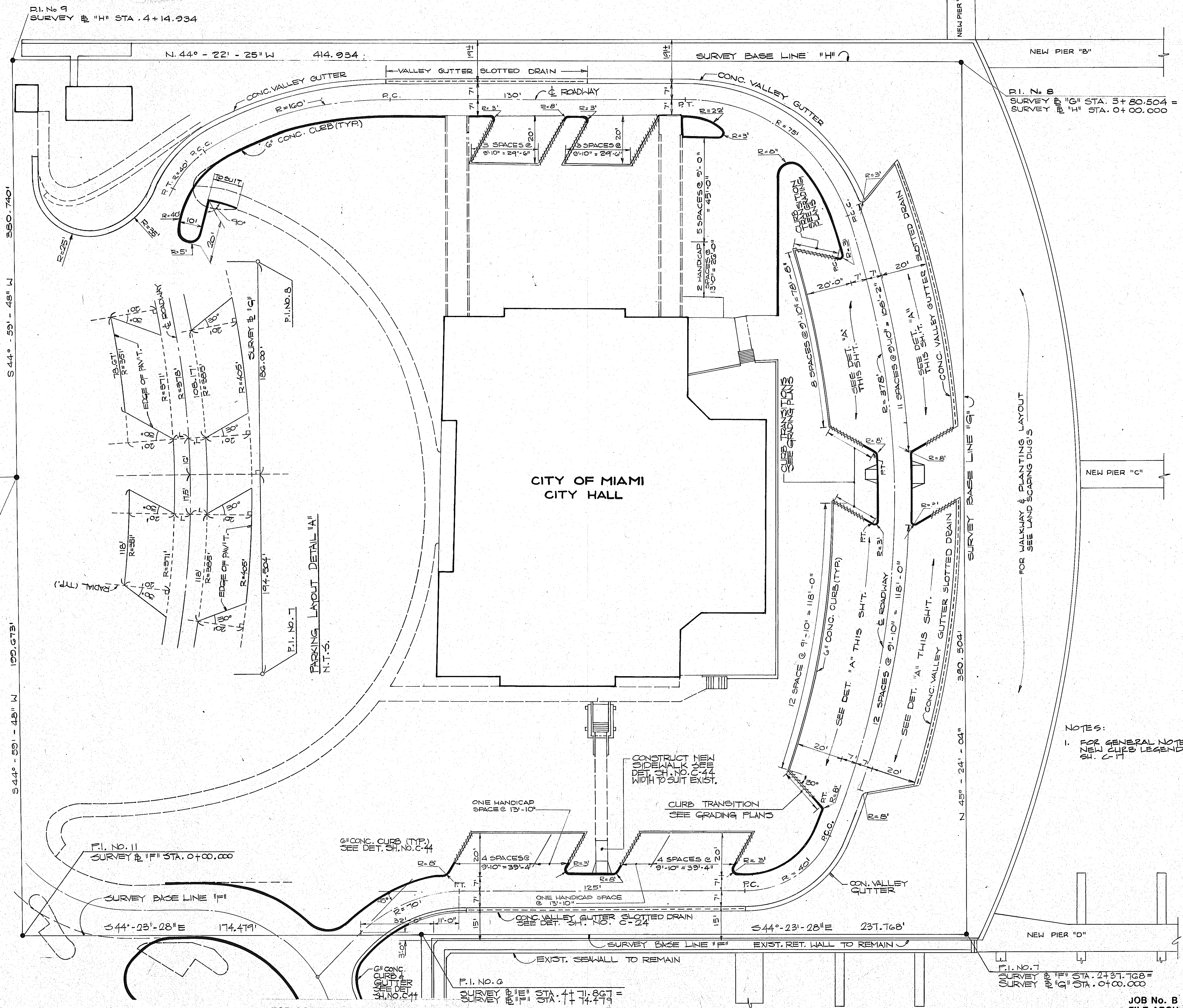
NOTES:
 1. FOR GENERAL NOTES & NEW CURB LEGEND SEE SH. C-17.

FOR CONTINUATION SEE SH. No. C-19

NO.	DATE	REVISIONS



PANAMERICAN DRIVE
CITY SURVEY LINE
P.I. No. 10
STA. 1+99.673



NOTES:
1. FOR GENERAL NOTES & NEW CURB LEGEND SEE SH. C-17

FOR WALKWAY & PLANTING LAYOUT SEE LAND SCAPING DUG'S

FOR CONTINUATION SEE SH. NO. C-18

P.I. No. 8
SURVEY # "G" STA. 3+80.504 =
SURVEY # "H" STA. 0+00.000

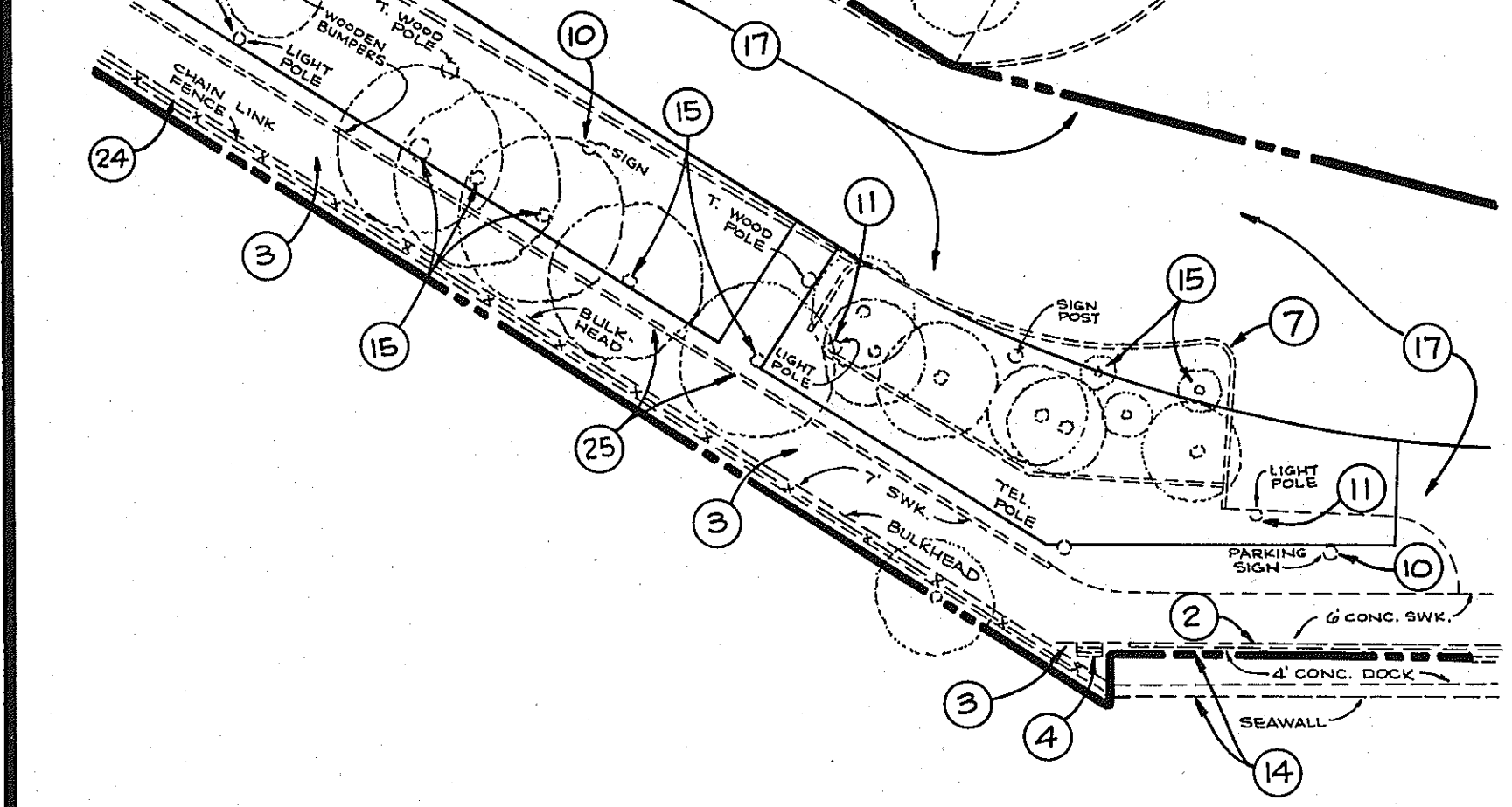
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SURVEY # "F" STA. 2+37.768 =
SURVEY # "G" STA. 0+00.000

JOB No. B 3202
FILE ARCH. 3-18

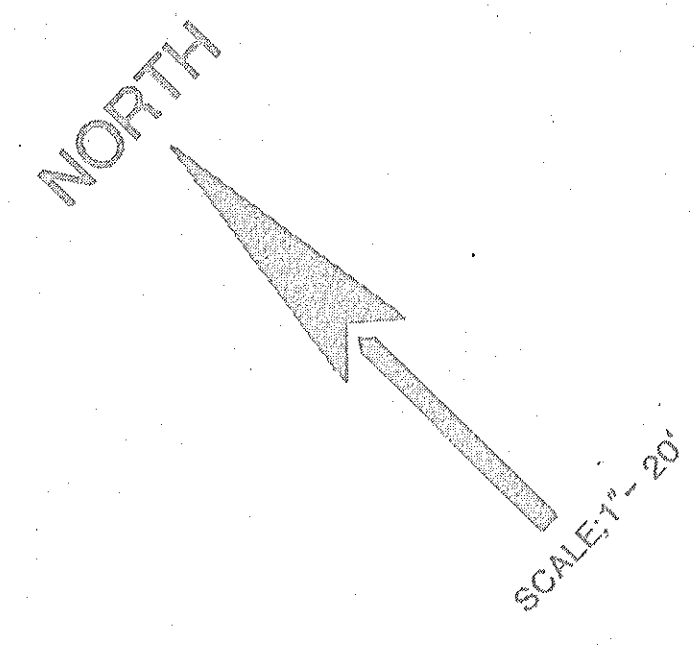
REVISIONS

NO.	DATE

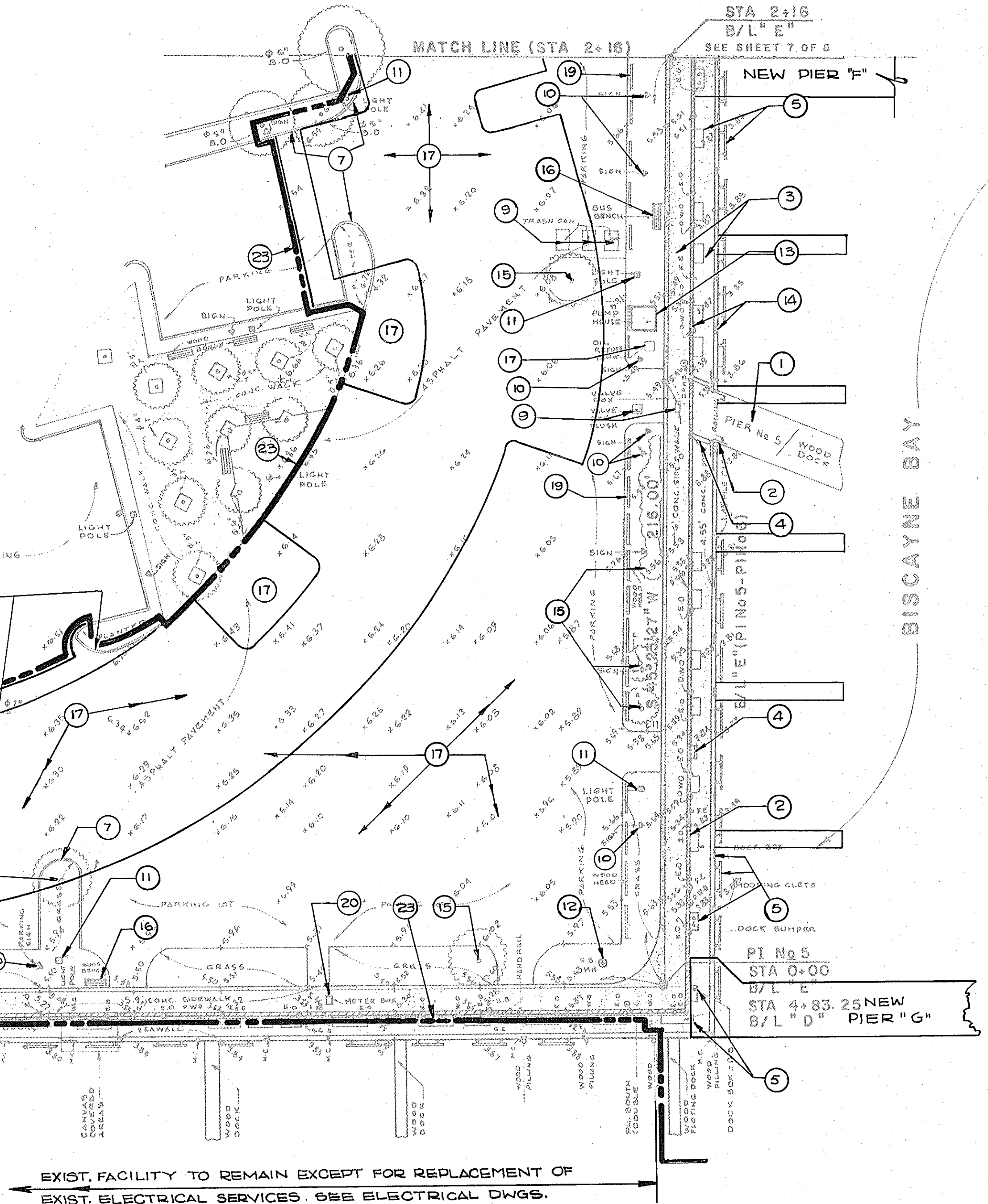
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SEE SH. NO.



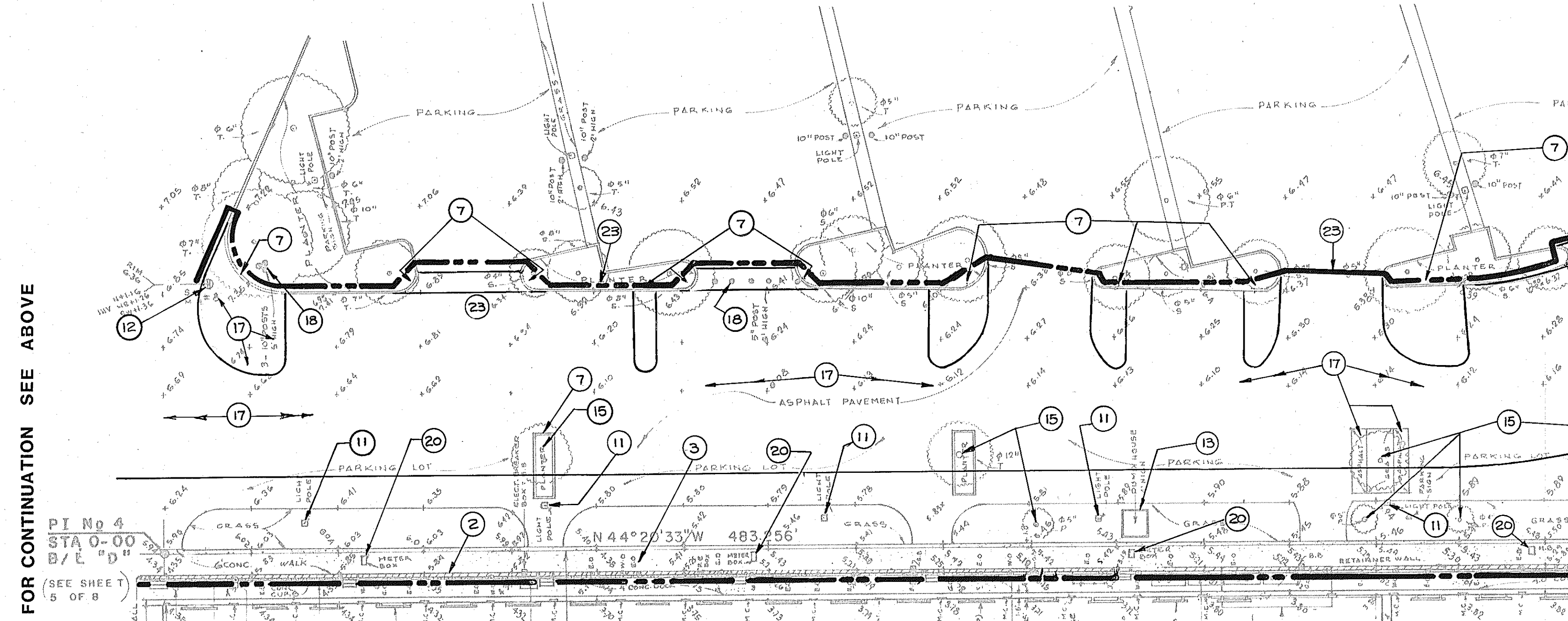
FOR CONTINUATION SEE BELOW



FOR CONTINUATION SEE SH. NO. C-21



FOR CONTINUATION SEE ABOVE



PI No 4
STA 0+00
B/L "D"

B/L "D" (PI No 4 - PI No 5)

PI No 5
STA 0+00
B/L "E"
STA 4+83.25 NEW
B/L "D" PIER "G"

BISCAYNE BAY

DEMOLITION LEGEND

- | | |
|--|---|
| <ul style="list-style-type: none"> ① EXISTING PIER TO BE REMOVED. SEE SPECIFICATIONS FOR SCHEDULING (TYPICAL). ② EXISTING RAILING TO BE REMOVED AND REPLACED OR RESTORED AS REQUIRED FOR TREATMENT. SEE LANDSCAPING DRAWINGS (TYPICAL). ③ REMOVE EXISTING CONCRETE SIDEWALK. ④ EXISTING CONCRETE STEPS TO BE REMOVED AND REPLACED (TYPICAL). ⑤ REMOVE ALL EXISTING WOOD DOCK BUMPERS, BOXES, AND CLEATS. STORE AND/OR DISPOSE AS DIRECTED. SEE SPECIFICATIONS (TYPICAL). ⑥ EXISTING CURB AND GUTTER TO BE REMOVED (TYPICAL). ⑦ EXISTING CURB TO BE REMOVED (TYPICAL). ⑧ EXISTING CATCH BASIN TO REMAIN. ADJUST TO NEW GRADE. ⑨ EXISTING STRUCTURE TO BE REMOVED. ⑩ EXISTING SIGN TO BE REMOVED AND RELOCATED AS DIRECTED. ⑪ EXISTING LIGHT POLE TO BE REMOVED AND RELOCATED. SEE ELECTRICAL DRAWINGS. ⑫ EXISTING MANHOLE TO REMAIN. ADJUST TO GRADE. ⑬ EXISTING TRANSFORMER PAD AND STRUCTURE TO BE REMOVED. SEE ELECTRICAL DRAWINGS. | <ul style="list-style-type: none"> ⑭ EXISTING SEAWALL AND RETAINING WALL TO REMAIN. ⑮ EXISTING TREE TO BE REMOVED. ⑯ EXISTING BENCH TO BE REMOVED. ⑰ EXISTING ASPHALT PAVEMENT TO BE REMOVED. ⑱ REMOVE EXISTING POSTS. ⑲ EXISTING PARKING BUMPERS TO BE REMOVED AND RELOCATED AS DIRECTED (TYPICAL). ⑳ EXISTING UTILITY VALVE BOX OR STRUCTURE TO REMAIN. ADJUST TO GRADE. ㉑ APPROX. LIMITS OF OLD SEA PLANE RAMP. REMOVE WHERE ENCOUNTERED. (4"x10" PLANKS.) ㉒ APPROX. LIMITS OF OLD REINFORCED CONCRETE APRON. DEPTH AND THICKNESS UNKNOWN. REMOVE WHERE ENCOUNTERED. ㉓ APPROX. LIMITS OF DEMOLITION ㉔ EXISTING FENCE TO BE REMOVED. ㉕ EXISTING WOOD BUMPERS TO BE REMOVED. |
|--|---|

EXIST. FACILITY TO REMAIN EXCEPT FOR REPLACEMENT OF
EXIST. ELECTRICAL SERVICES. SEE ELECTRICAL DWGS.

DEMOLITION NOTES

1. DEMOLITION OF EXISTING FACILITIES SHALL FOLLOW PIER DEMOLITION SCHEDULING AS DESCRIBED IN THE SPECIFICATION.
2. CONTRACTOR SHALL NOT DEMOLISH, REMOVE OR RELOCATE ANY EXISTING SURFACE OR UNDERGROUND STRUCTURES THAT IN ANY WAY IMPACT WITH THE SERVICES, INCLUDING ACCESS PRESENTLY PROVIDED TO THE MARINA USERS, UNLESS PREVIOUSLY APPROVED BY THE ENGINEER.
3. ALL ACCESS TO THE SITE, STORAGE, AND STAGING AREAS ARE TO BE LOCATED WHERE SHOWN ON THE PLANS OR AS DESCRIBED IN THE SPECIFICATIONS.
4. ALL EXISTING UTILITIES AND SERVICES OUTSIDE THE AUTHORIZED LIMITS OF WORK WITHIN EACH NEW PIER CONSTRUCTION SHALL BE MAINTAINED. CONTRACTOR SHALL COORDINATE ALL NEW ELECTRICAL, WATER DISTRIBUTION, SEWAGE, AND DRAINAGE FACILITIES SO AS NOT TO INTERRUPT EXISTING SERVICES.
5. DEMOLITION OF EXISTING PIER SHALL INCLUDE REMOVAL AND STORAGE OF ALL DOCK BOXES, CLEATS, AND ALL OTHER REUSABLE APPURTENANCES. FINGERPIERS, PILE CAPS, PILES, FENDERS, ANCHOR PILES, ETC., SHALL BE DISPOSED AS DESCRIBED IN THE SPECIFICATIONS.
6. DEMOLITION SHALL INCLUDE ALL SURFACE AND UNDERGROUND FEATURES WITHIN THE LIMITS OF WORK NECESSARY FOR THE COMPLETION OF THIS PROJECT. DEMOLITION PLANS SHOWS INTENT AND MAJOR ITEMS NECESSARY TO ACCOMPLISH THIS TASK, HOWEVER, IT DOES NOT REFLECT TOTAL EFFORT REQUIRED. BID PRICE SHALL INCLUDE ALL COSTS OF DEMOLITION NECESSARY TO COMPLETE THE PROJECT.

JOB No. B 3202
FILE ARCH. 3-28

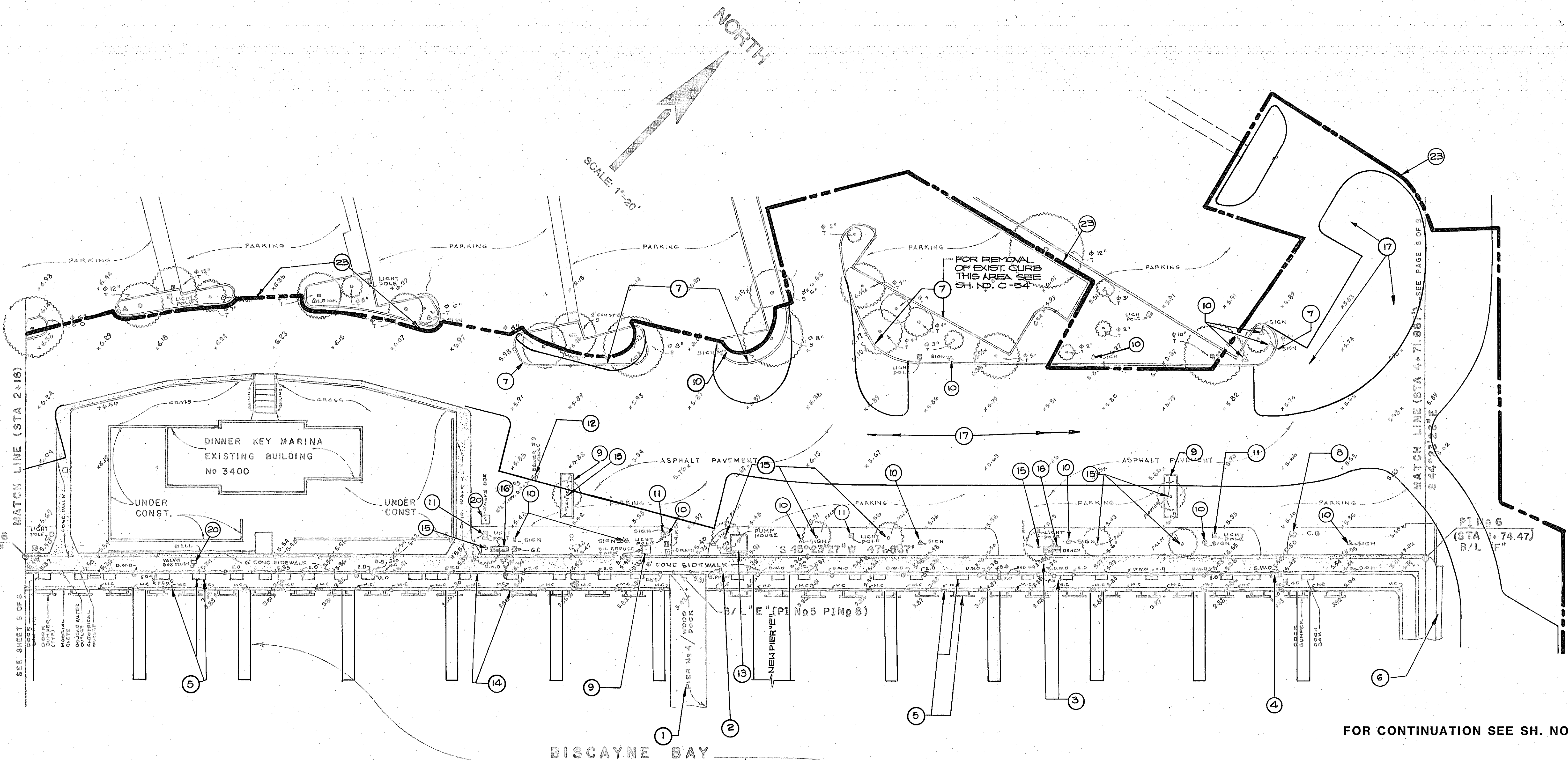
REVISIONS

NO.	DATE	DESCRIPTION

NO.	DATE

FOR CONTINUATION SEE SH. NO. C-20

FOR CONTINUATION SEE SH. NO. C-22

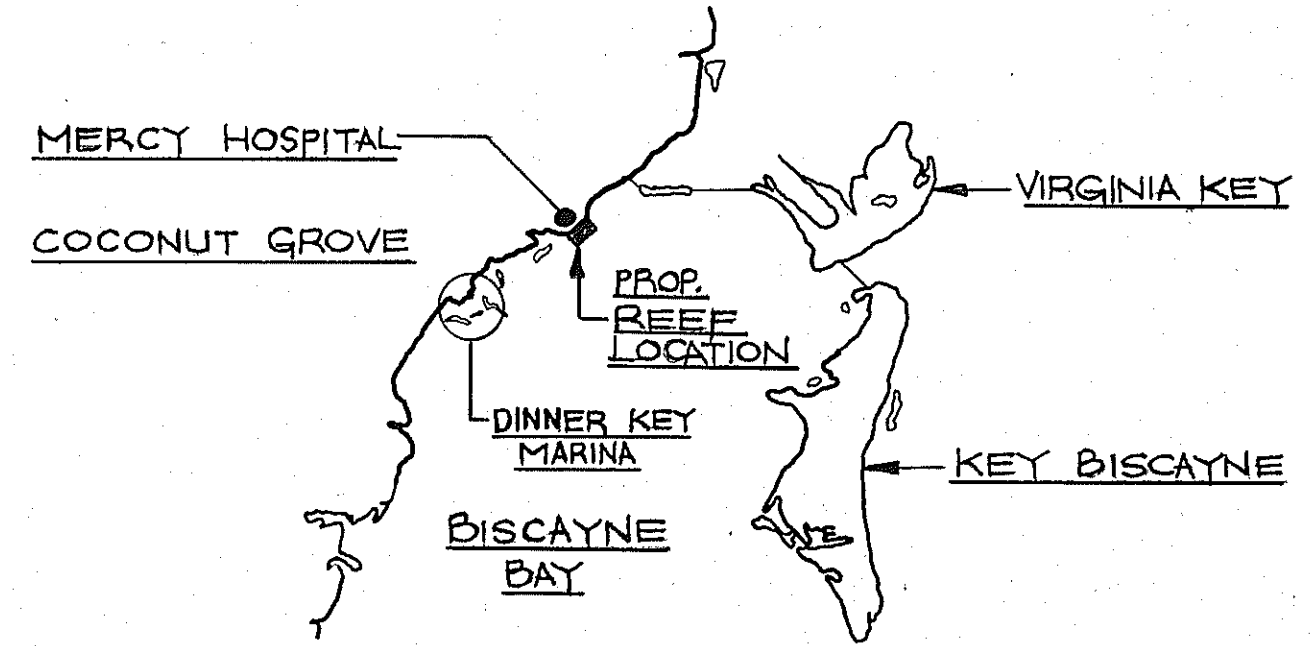


BISCAYNE BAY

MERCY HOSPITAL
 3663 S. MIAMI AVE.

ERMITA DE LA CARIDAD
 CHURCH
 3009 S. MIAMI AVE.

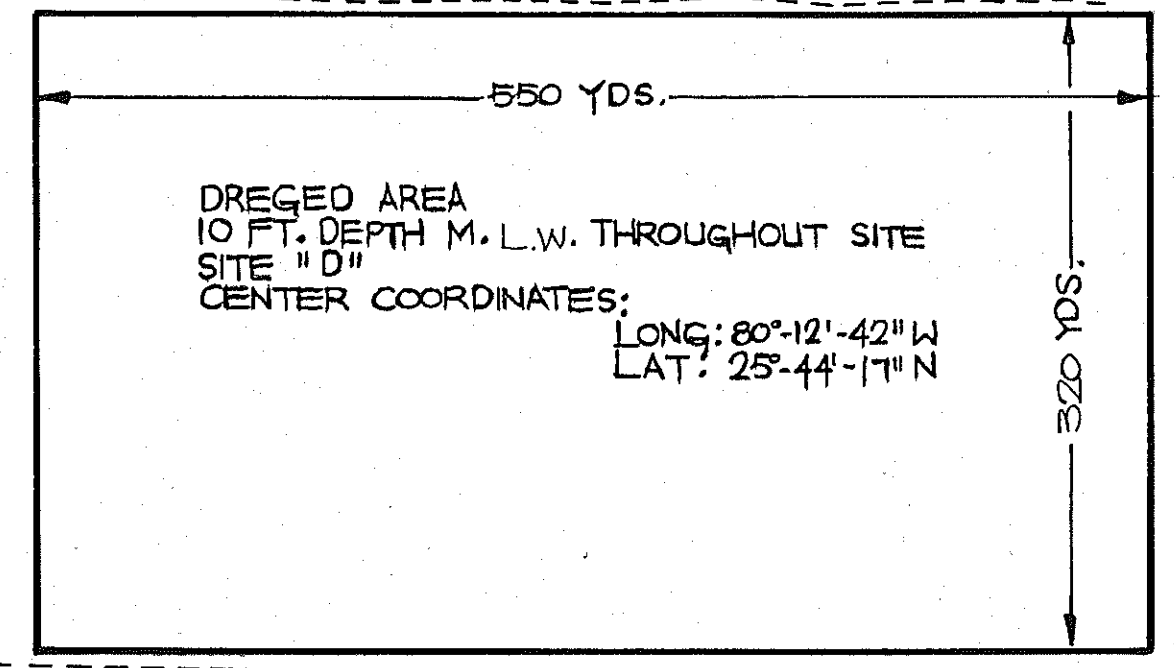
NOTE: FOR DEMOLITION NOTES AND LEGEND SEE SH. C-20



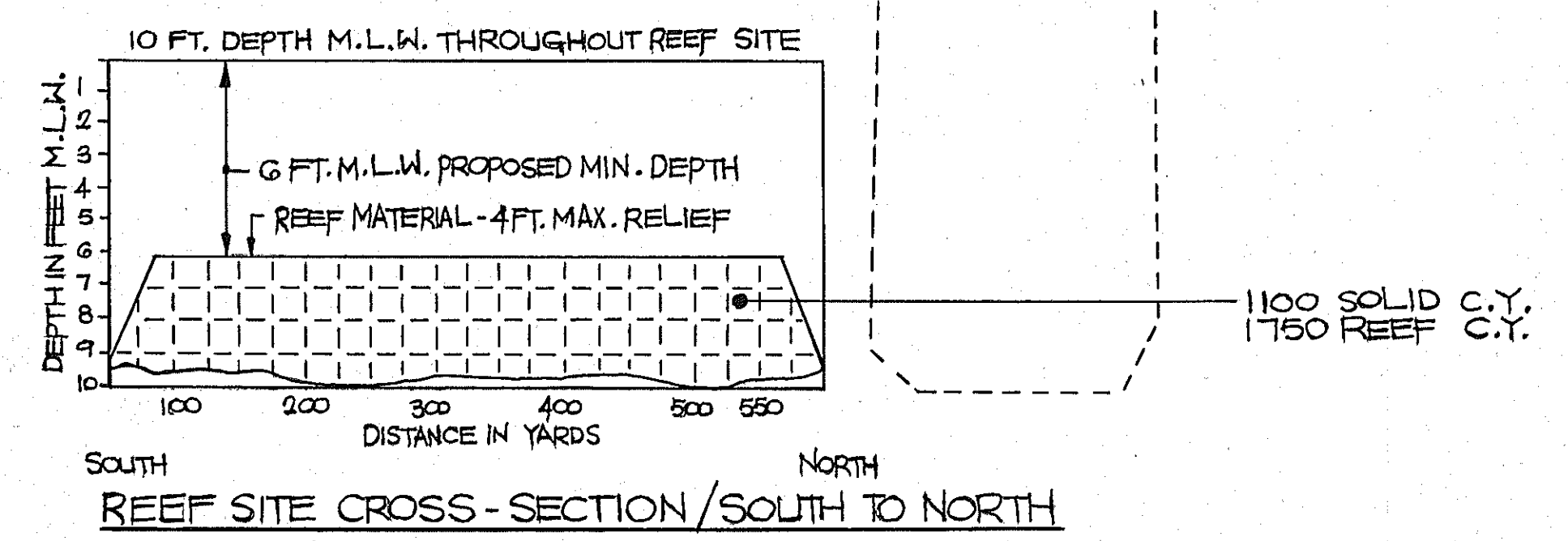
LOCATION MAP
 1" = 4 MILES (NAUTICAL)

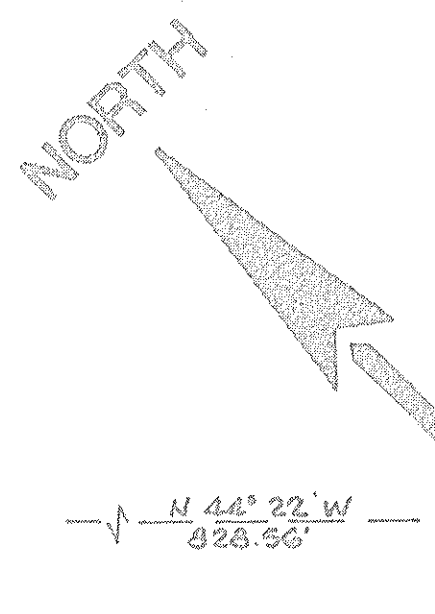
PROP. REEF - LOCATION MAP,
 LOCATION PLAN & CROSS-SECT.

NOTE:
 SEE OCEAN SIDE DEMOLITION
 PLAN - SH. NO. C-4.



LOCATION PLAN





PI No 9
STA 4+14.934
B/L "H"

PI No 10
STA 1+99.673
CITY SURVEY LINE
CITY N&D

PI No 11
STA 0+00
B/L "F"

PI No 8
STA 0+00 - B/L "H"
STA 3+80.304
B/L "G"

PI No 7
STA 0+00
B/L "G"
STA 2+37.768
B/L "F"

BISCAYNE BAY

CITY HALL BUILDING

NOTE: FOR DEMOLITION NOTES AND LEGEND SEE SH. C-20

FOR CONTINUATION SEE SH. NO. C-21

JOB No. B 3202
FILE ARCH. 3-28



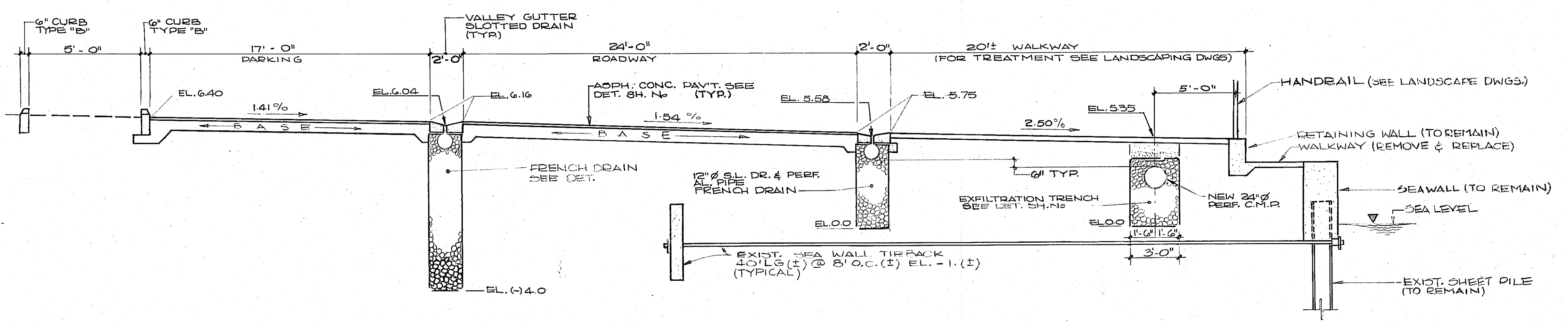
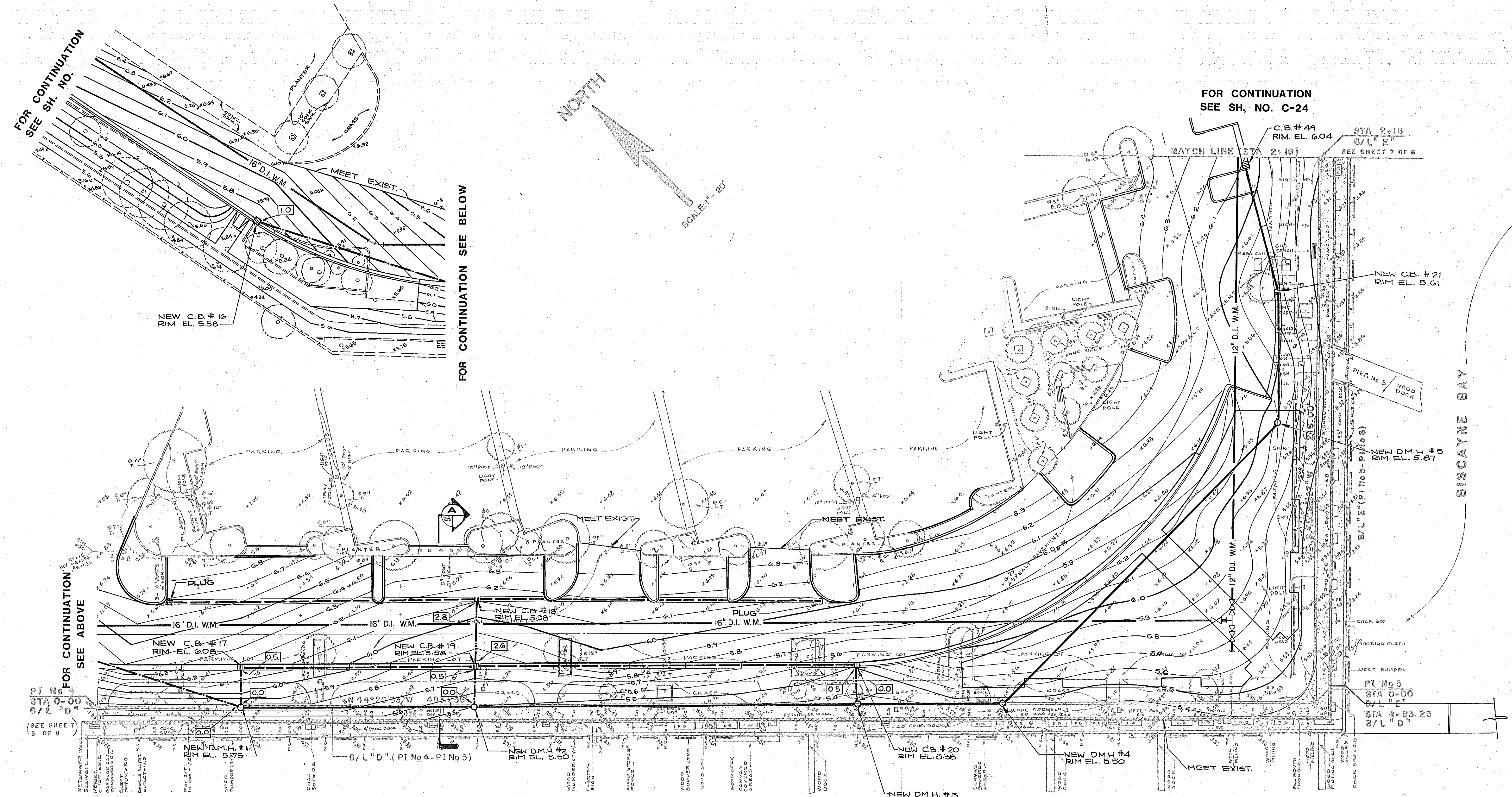
LAND SIDE DEMOLITION PLAN

REVISIONS

NO.	DATE

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

DES. DATE: NOV 1984
ENR. FILE: 1750-80-
SHEET
C 22 of 61

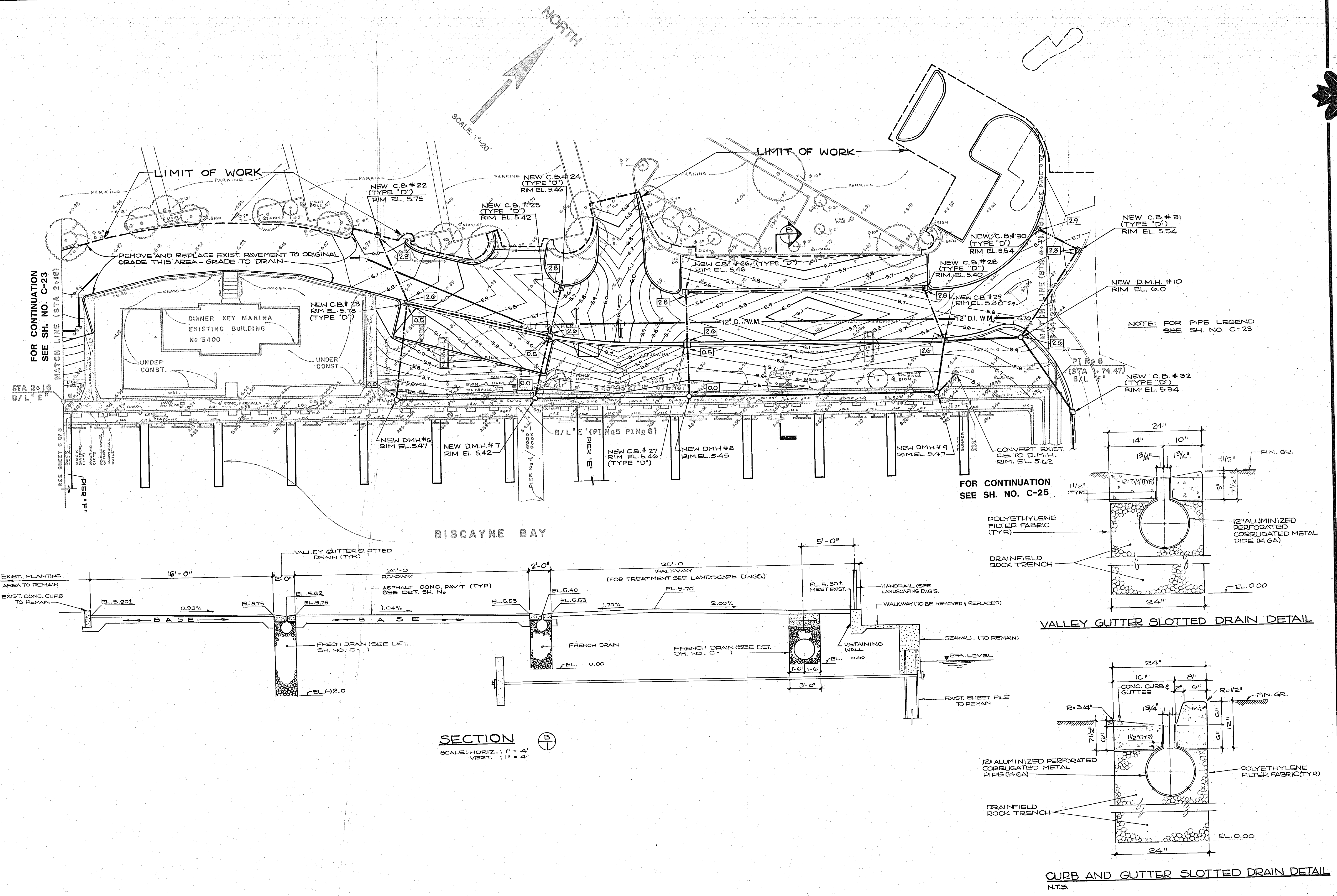


- PIPE LEGEND:**
- 24" φ PERFORATED C.M.P. WITH 3 FT. WIDE EXFILTRATION TRENCH
 - - - 12" φ SLOTTED DRAIN PERFORATED C.M.P. WITH 2 FT. WIDE EXFILTRATION TRENCH
 - · - · - 15" φ NON-PERFORATED C.M.P.
 - 12" x 18" OVAL R.C.P.
 - ②① INVERT ELEVATION FOR NON-PERFORATED PIPE

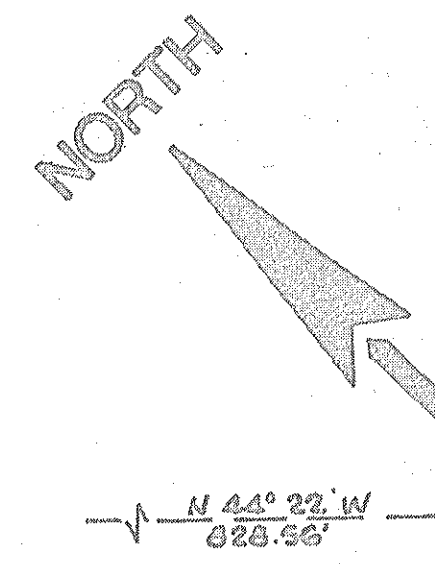
SECTION
 SCALE: HORIZ.: 1"=4'
 VERT.: 1"=4'

REVISIONS

NO.	DATE



JOB No. B 3202
 FILE ARCH. 3-28



SCALE: 1" = 20'

PAN AMERICAN DRIVE
CITY SURVEY LINE
CITY N.O.D.

PI No. 10
STA 1+99-673

PI No. 11
STA 0+00

PI No. 9
STA 4+14.934

NEW C.B. NO. 48
RIM EL.

NEW C.B. NO. 47
RIM EL.

NEW C.B. NO. 46
RIM EL.

PI No. 8
STA 0+00-B/L "H"
STA 3+80-50'
B/L "G"

BISCAYNE BAY

NOTE: FOR PIPING LEGEND
SEE SH. NO. C-23

CITY HALL BUILDING

BISCAYNE BAY

FOR CONTINUATION SEE SH. NO. C-24

STA 0+00
B/L "G"
STA 2+37.760'
B/L "P"

JOB No. B 3202
FILE ARCH. 3-28



Greenleaf-Telesca
PLANNERS - ENGINEERS - ARCHITECTS
2650 SW 27th AVENUE
MIAMI FLORIDA 33135

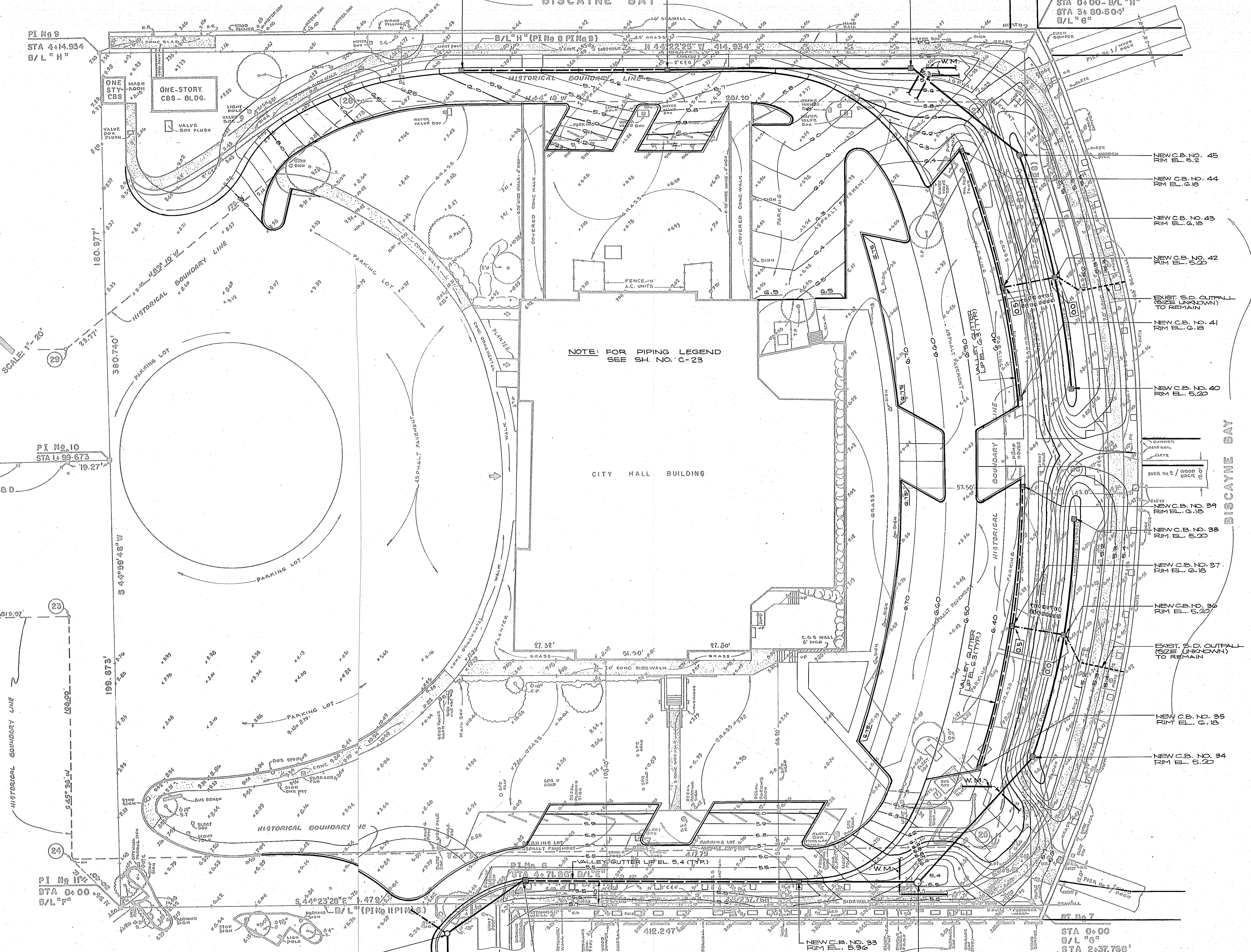
LAND SIDE
GRADING & DRAINAGE PLAN

REVISIONS

NO. DATE

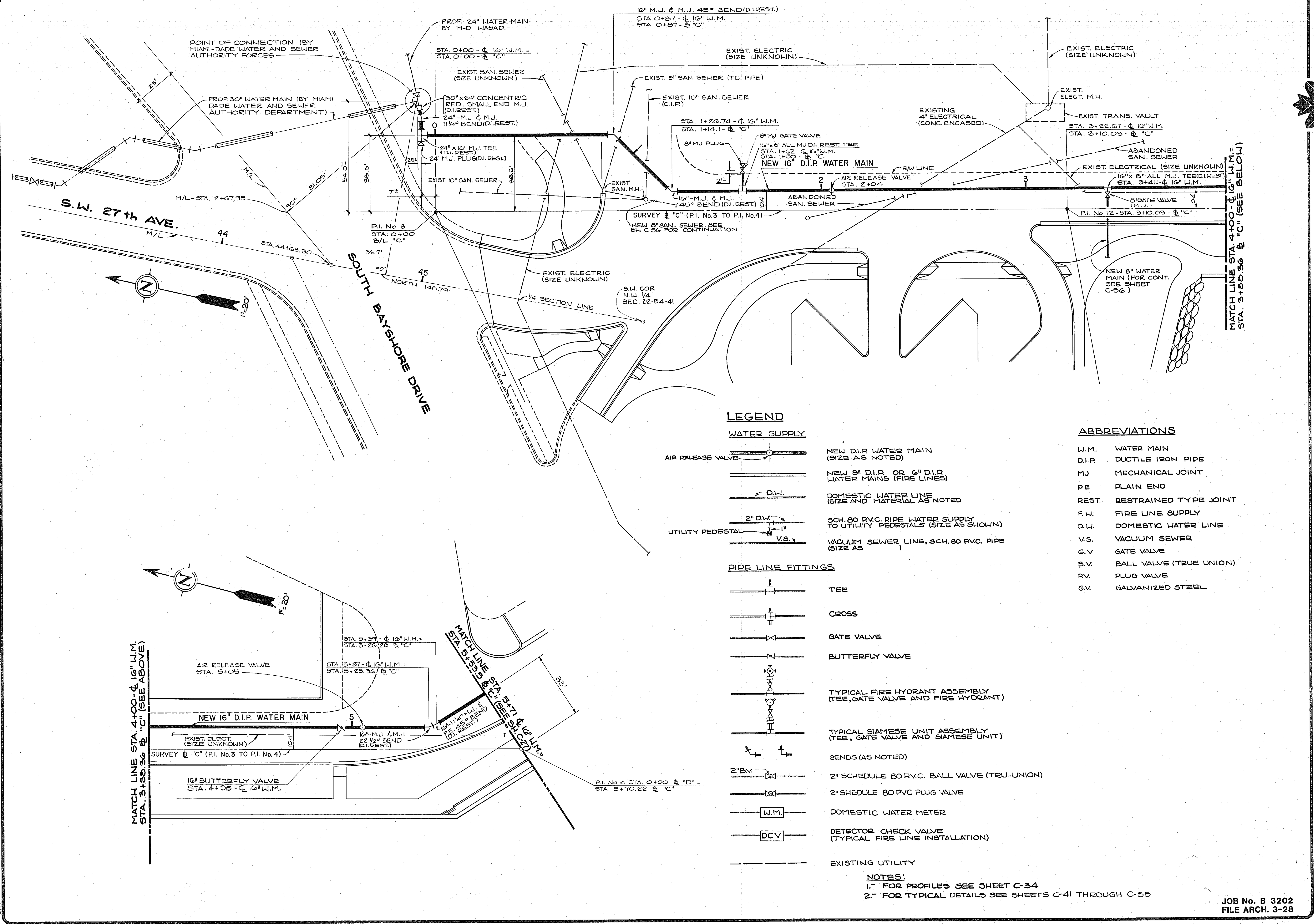
CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

C 25 OF
NOV. 1984
1790-00



REVISIONS

NO.	DATE	DESCRIPTION



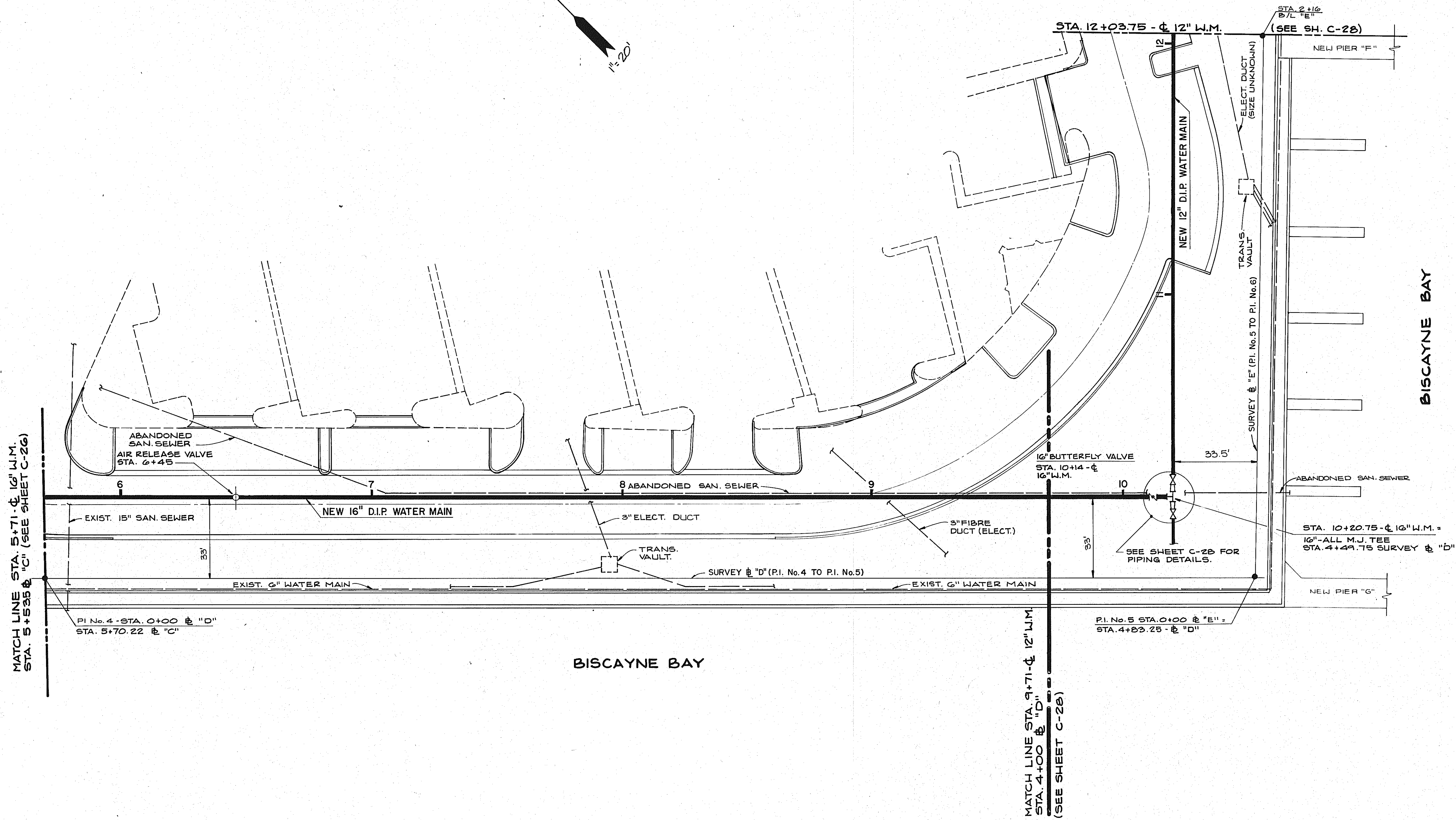
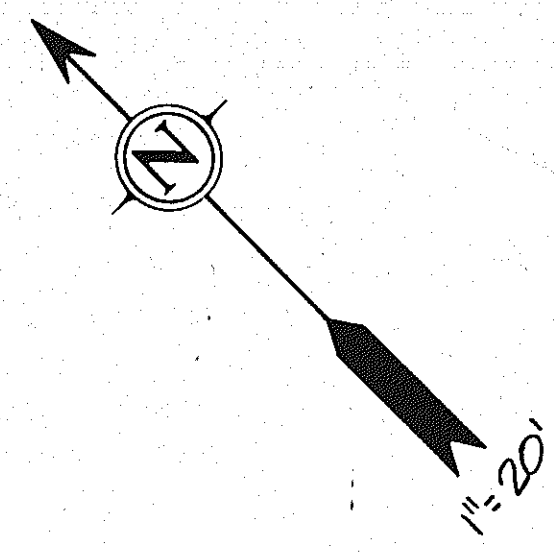
LEGEND

- WATER SUPPLY**
- AIR RELEASE VALVE
 - NEW D.I.P. WATER MAIN (SIZE AS NOTED)
 - NEW 8" D.I.P. OR 6" D.I.P. WATER MAINS (FIRE LINES)
 - DOMESTIC WATER LINE (SIZE AND MATERIAL AS NOTED)
 - SCH. 80 P.V.C. PIPE WATER SUPPLY TO UTILITY PEDESTALS (SIZE AS SHOWN)
 - VACUUM SEWER LINE, SCH. 80 P.V.C. PIPE (SIZE AS NOTED)
- PIPE LINE FITTINGS**
- TEE
 - CROSS
 - GATE VALVE
 - BUTTERFLY VALVE
 - TYPICAL FIRE HYDRANT ASSEMBLY (TEE, GATE VALVE AND FIRE HYDRANT)
 - TYPICAL SIAMESE UNIT ASSEMBLY (TEE, GATE VALVE AND SIAMESE UNIT)
 - BENDS (AS NOTED)
 - 2" SCHEDULE 80 P.V.C. BALL VALVE (TRU-UNION)
 - 2" SCHEDULE 80 P.V.C. PLUG VALVE
 - DOMESTIC WATER METER
 - DETECTOR CHECK VALVE (TYPICAL FIRE LINE INSTALLATION)
 - EXISTING UTILITY

ABBREVIATIONS

- W.M. WATER MAIN
- D.I.P. DUCTILE IRON PIPE
- MJ MECHANICAL JOINT
- PE PLAIN END
- REST. RESTRAINED TYPE JOINT
- F.W. FIRE LINE SUPPLY
- D.W. DOMESTIC WATER LINE
- V.S. VACUUM SEWER
- G.V. GATE VALVE
- B.V. BALL VALVE (TRUE UNION)
- P.V. PLUG VALVE
- G.V. GALVANIZED STEEL

NOTES:
 1." FOR PROFILES SEE SHEET C-34
 2." FOR TYPICAL DETAILS SEE SHEETS C-41 THROUGH C-55



- NOTES:**
1. FOR PROFILES SEE SHEET C-34
 2. FOR TYPICAL DETAILS SEE SHEETS C-41 THROUGH C-55
 3. FOR LEGEND SEE SHEETS C-26

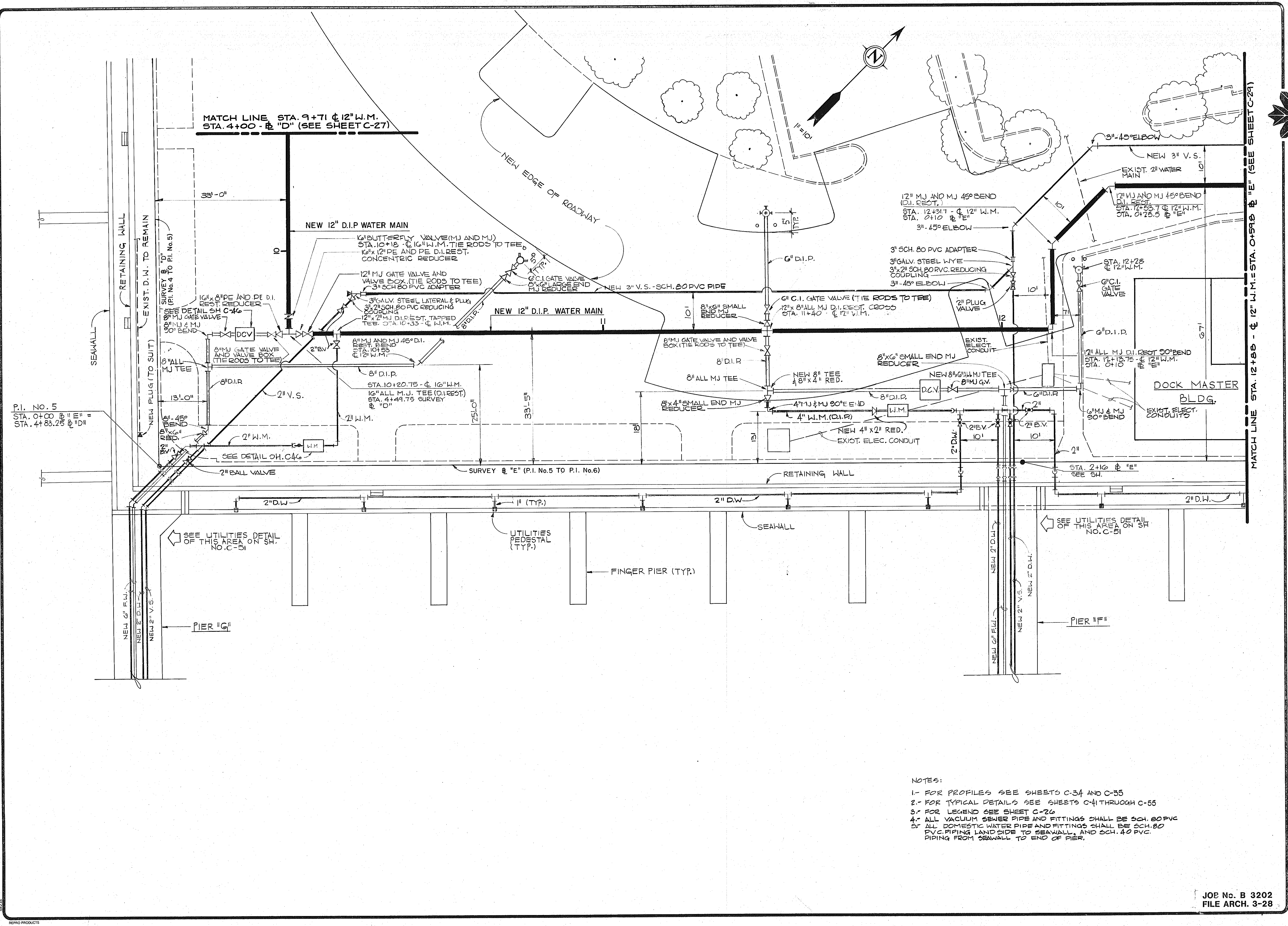
JOB No. B 3202
FILE ARCH. 3-28

REVISIONS

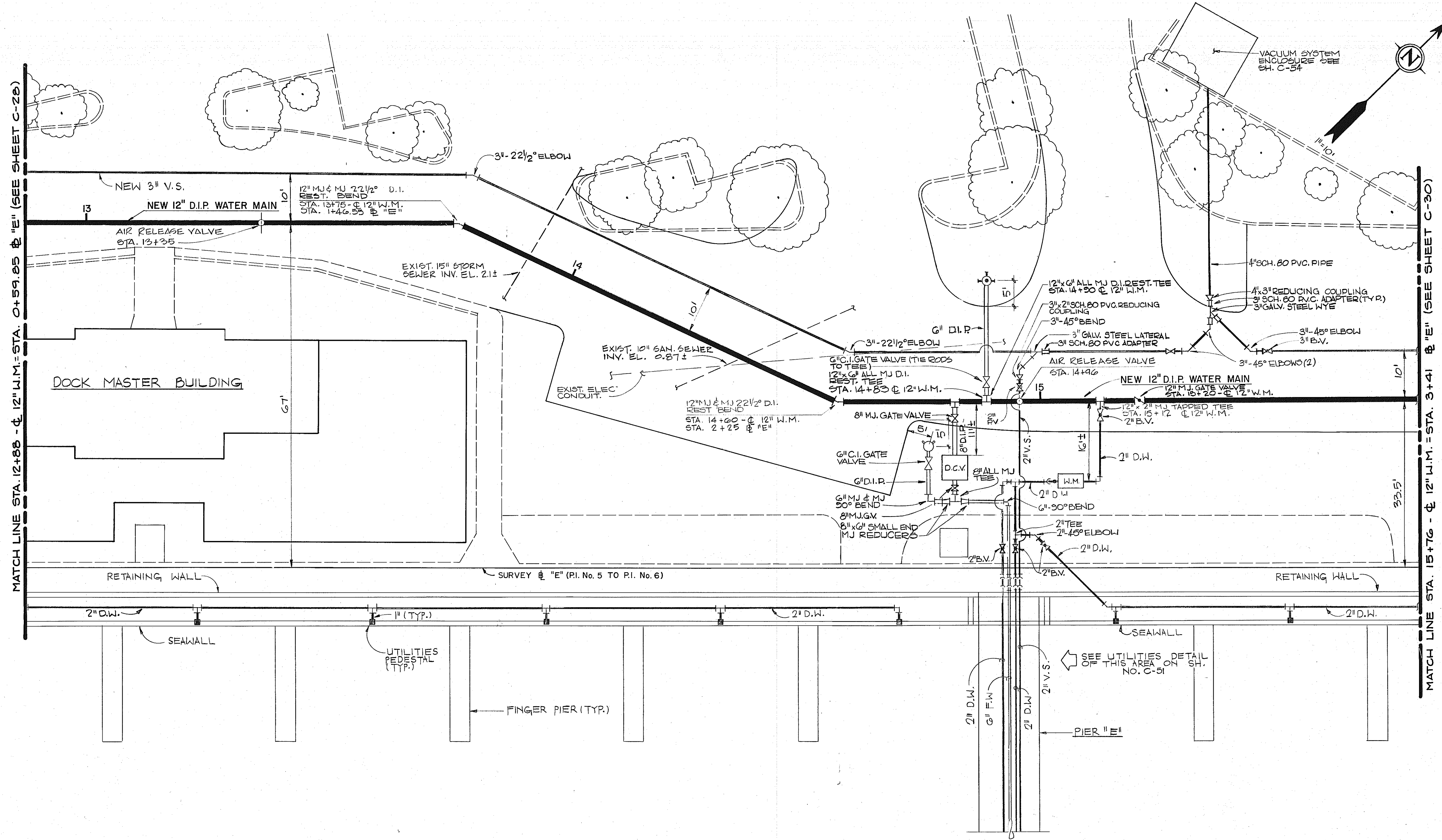
NO.	DATE	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION



- NOTES:
- 1- FOR PROFILES SEE SHEETS C-34 AND C-35
 - 2- FOR TYPICAL DETAILS SEE SHEETS C-41 THROUGH C-55
 - 3- FOR LEGEND SEE SHEET C-26
 - 4- ALL VACUUM SEWER PIPE AND FITTINGS SHALL BE SCH. 80 PVC
 - 5- ALL DOMESTIC WATER PIPE AND FITTINGS SHALL BE SCH. 80 PVC. PIPING LAND SIDE TO SEAWALL, AND SCH. 40 PVC. PIPING FROM SEAWALL TO END OF PIER.



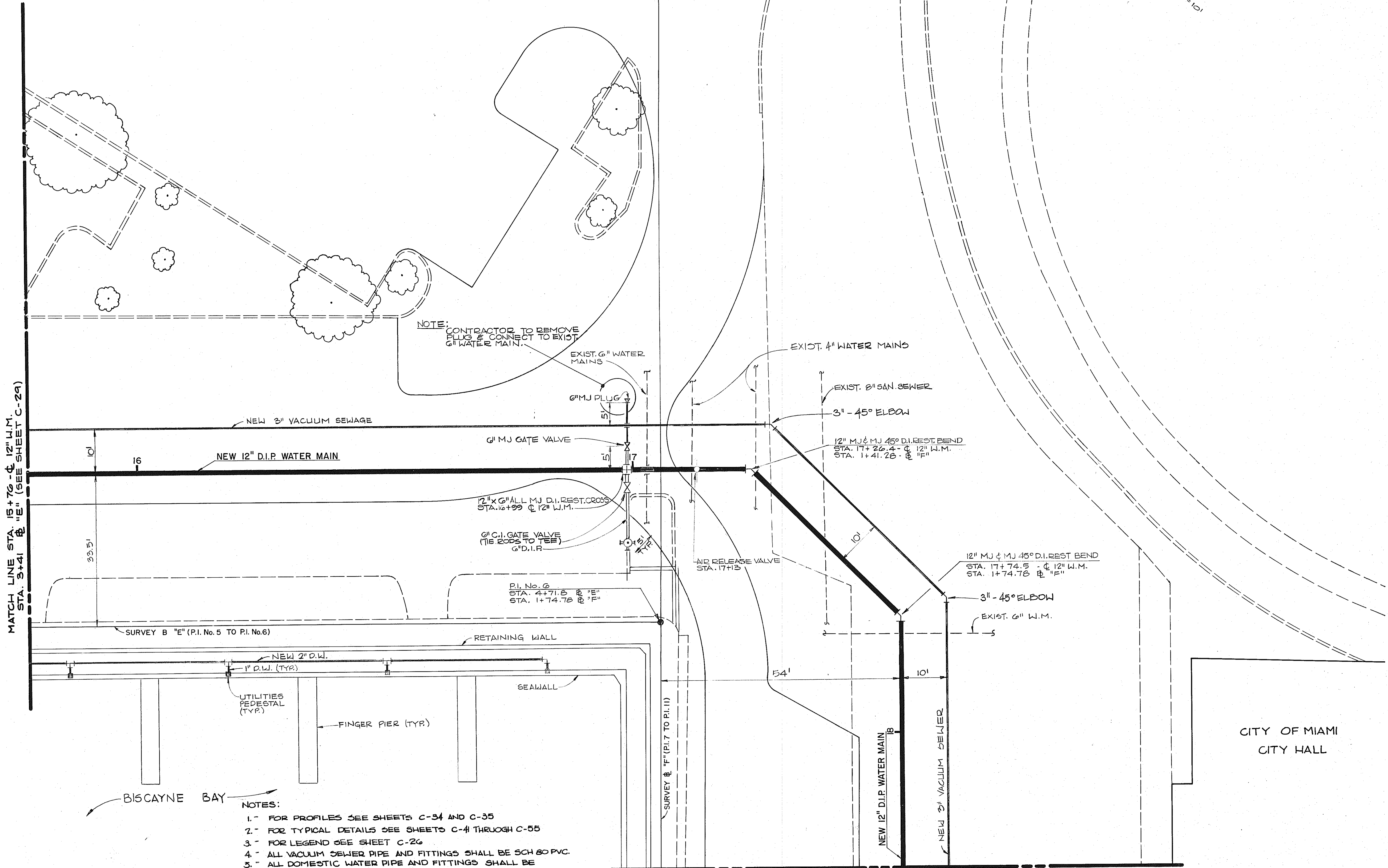
MATCH LINE STA. 12+88 - 12" W.M. - STA. 0+59.85 @ "E" (SEE SHEET C-28)

MATCH LINE STA. 15+76 - 12" W.M. - STA. 3+41 @ "E" (SEE SHEET C-30)

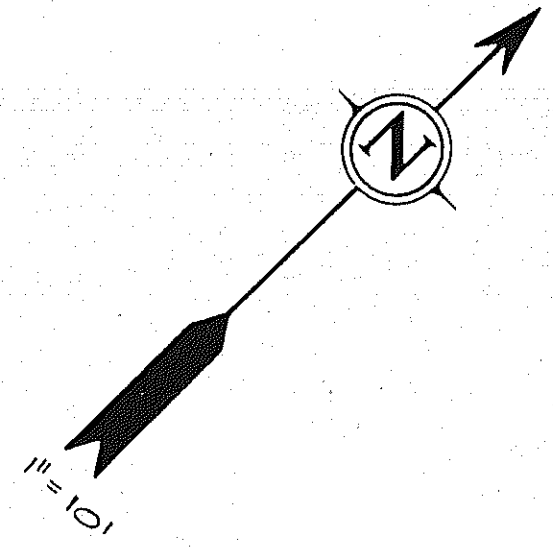
- NOTES:
1. FOR PROFILES SEE SHEETS C-34 AND C-35
 2. FOR TYPICAL DETAILS SEE SHEETS C-4 THROUGH C-55
 3. FOR LEGEND SEE SHEET C-26
 4. ALL VACUUM SEWER PIPE AND FITTINGS SHALL BE SCH 80 PVC.
 5. ALL DOMESTIC WATER PIPE AND FITTINGS SHALL BE SCH. 80 PVC. PIPING LAND SIDE TO SEAWALL, AND SCH 40 PVC. PIPING FROM SEAWALL TO END OF PIER.

REVISIONS

NO.	DATE	DESCRIPTION



NOTE: CONTRACTOR TO REMOVE PLUG & CONNECT TO EXIST. 6" WATER MAIN.



MATCH LINE STA. 15+70 - 12" W.M. STA. 3+41 @ "E" (SEE SHEET C-29)

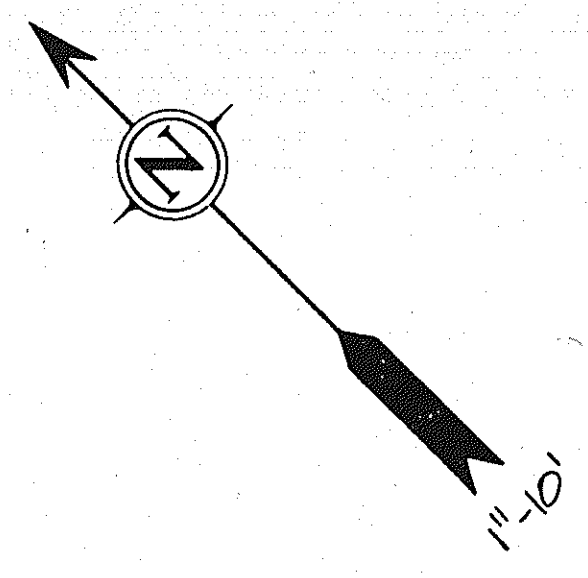
MATCH LINE STA. 18+30 @ 12" W.M. = STA. 2+30.3 @ "F" (SEE SHEET C-31)

- NOTES:
1. FOR PROFILES SEE SHEETS C-34 AND C-35
 2. FOR TYPICAL DETAILS SEE SHEETS C-4 THROUGH C-55
 3. FOR LEGEND SEE SHEET C-26
 4. ALL VACUUM SEWER PIPE AND FITTINGS SHALL BE SCH 80 PVC.
 5. ALL DOMESTIC WATER PIPE AND FITTINGS SHALL BE SCH. 80 PVC. PIPING LAND SIDE TO SEAWALL, AND SCH 40 PVC. PIPING FROM SEAWALL TO END OF PIER.

REVISIONS

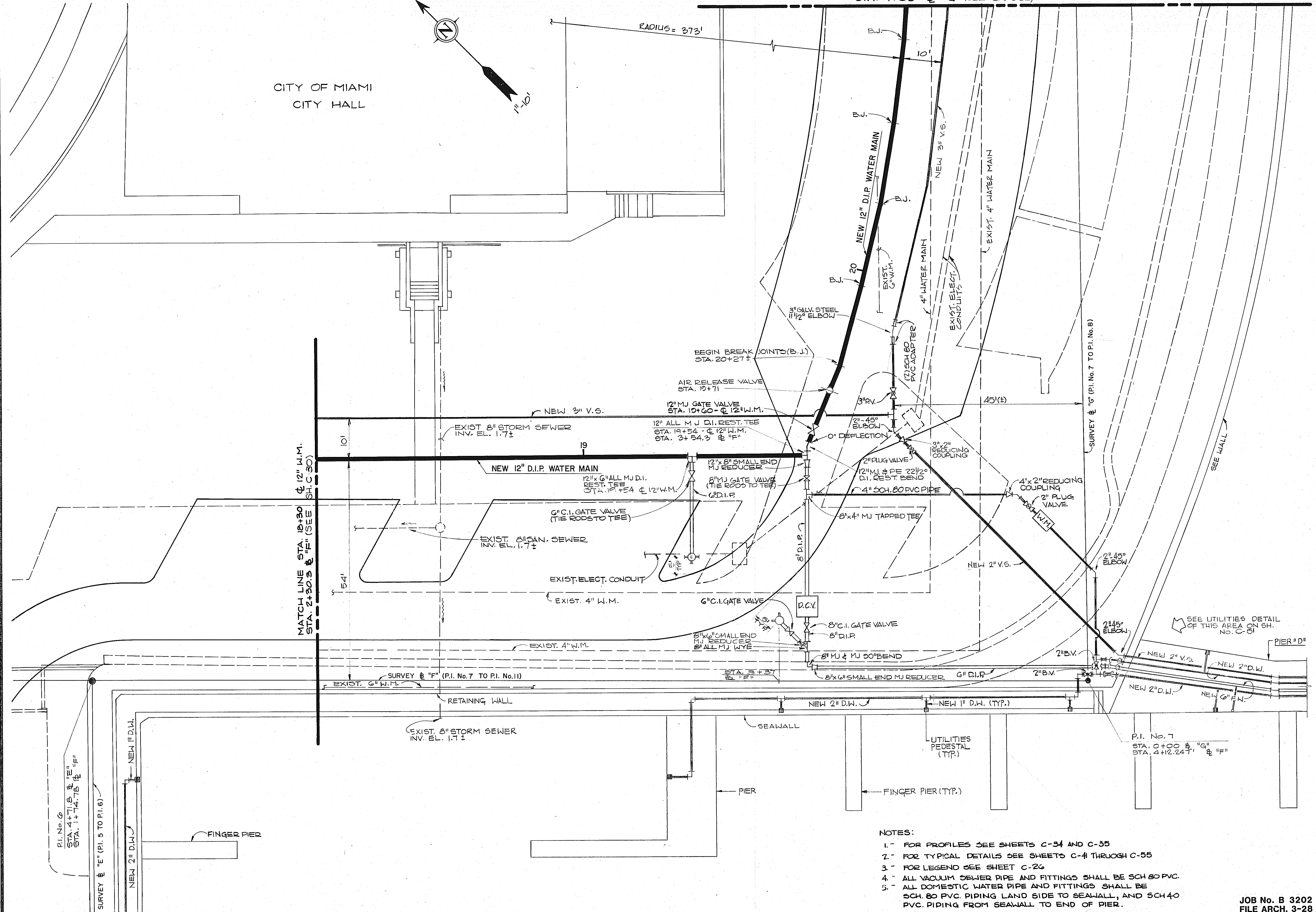
NO.	DATE

CITY OF MIAMI
CITY HALL



MATCH LINE STA. 20+66 - ϕ 12" W.M.
STA. 1+63 @ "G" (SEE SH. C-32)

RADIUS = 373'



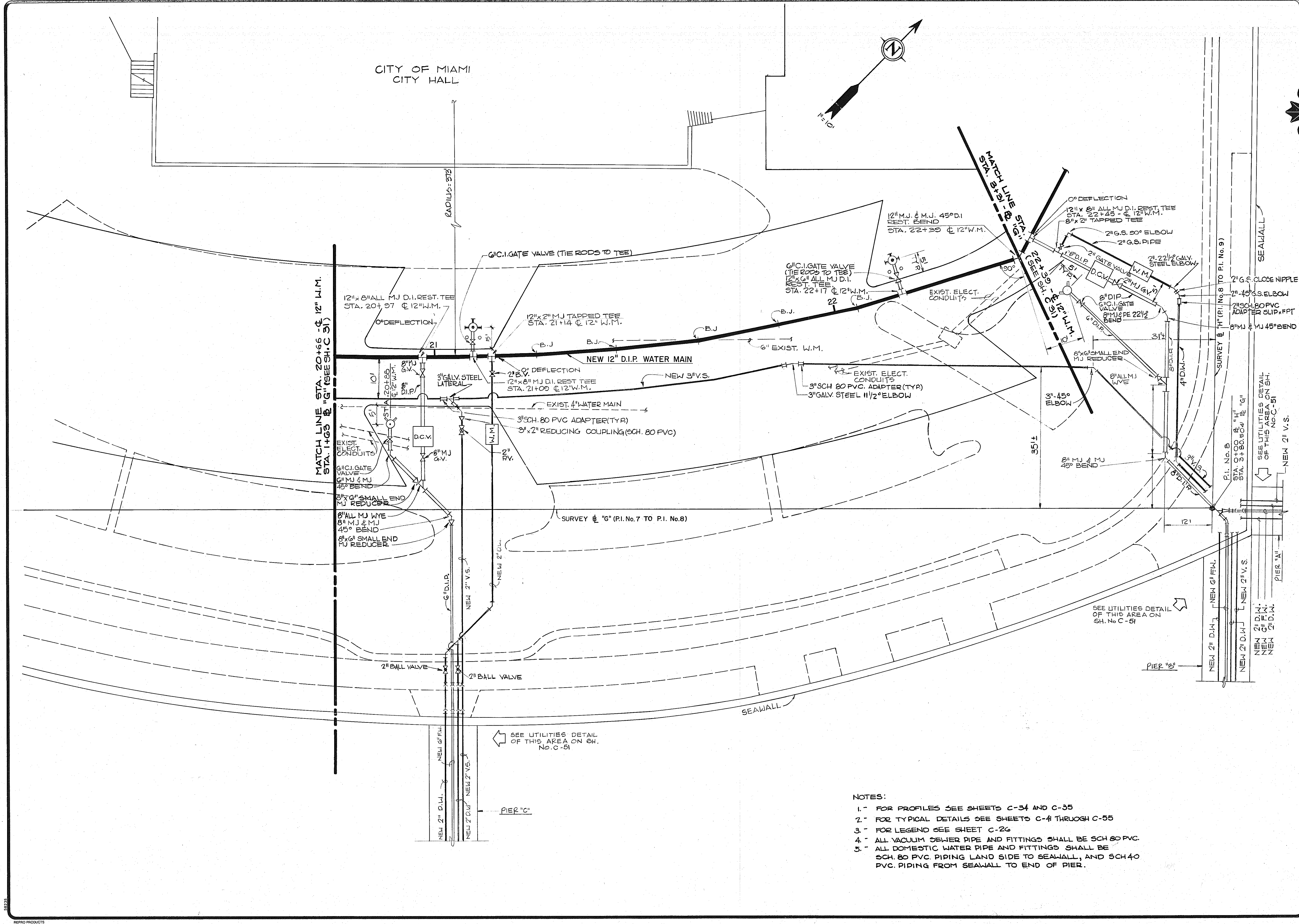
NOTES:

1. - FOR PROFILES SEE SHEETS C-34 AND C-35
2. - FOR TYPICAL DETAILS SEE SHEETS C-4 THROUGH C-55
3. - FOR LEGEND SEE SHEET C-26
4. - ALL VACUUM SEWER PIPE AND FITTINGS SHALL BE SCH 80 PVC.
5. - ALL DOMESTIC WATER PIPE AND FITTINGS SHALL BE SCH. 80 PVC. PIPING LAND SIDE TO SEAWALL, AND SCH 40 PVC. PIPING FROM SEAWALL TO END OF PIER.

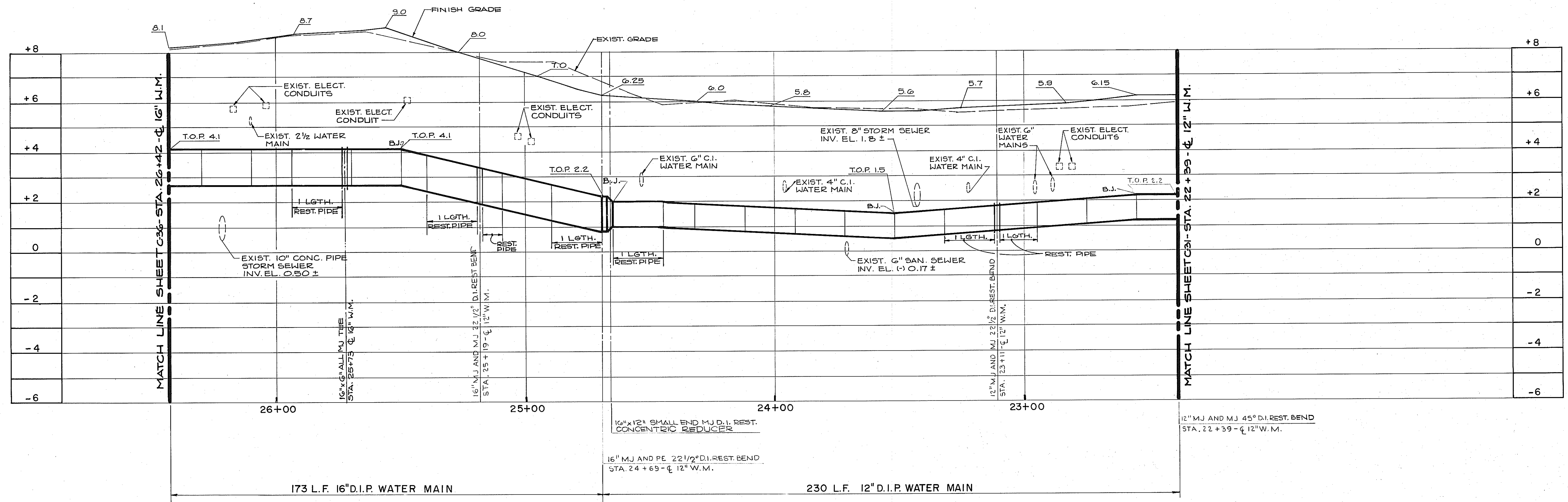
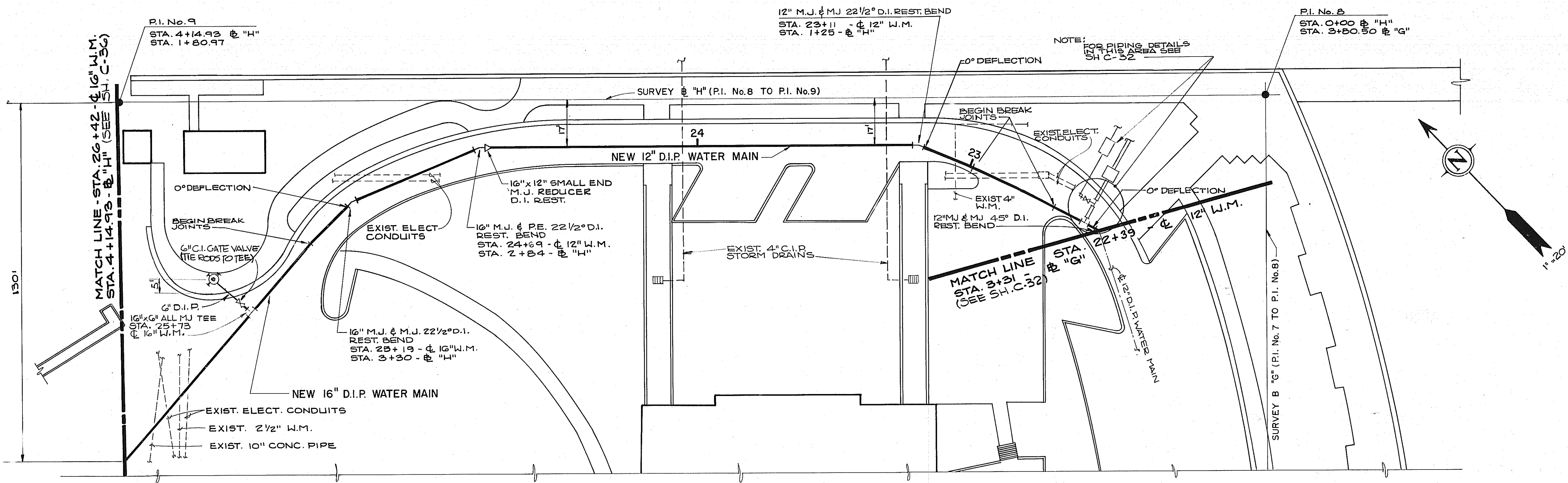
JOB No. B 3202
FILE ARCH. 3-28

REVISIONS

NO.	DATE

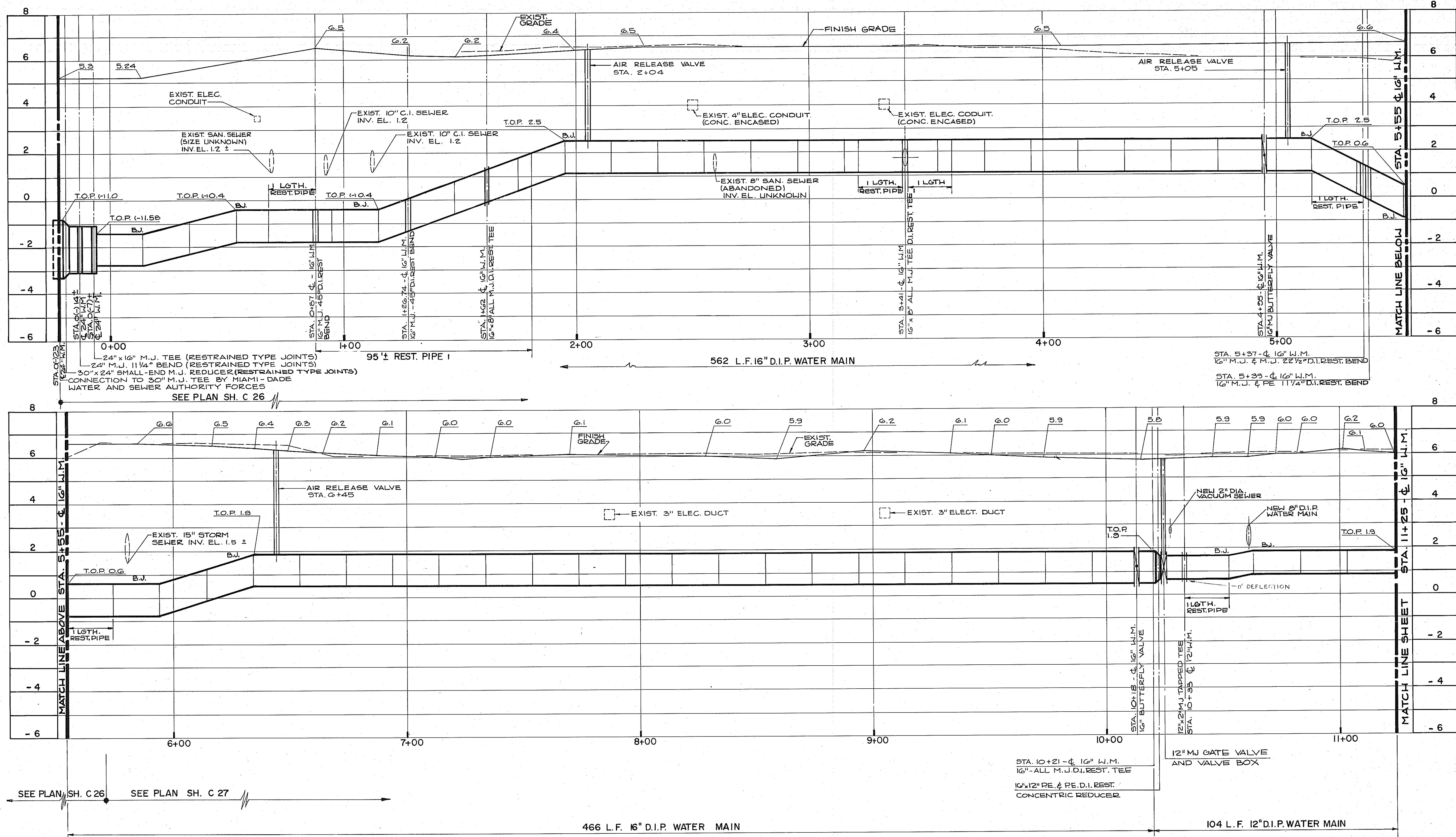


- NOTES:
1. - FOR PROFILES SEE SHEETS C-34 AND C-35
 2. - FOR TYPICAL DETAILS SEE SHEETS C-4 THROUGH C-55
 3. - FOR LEGEND SEE SHEET C-26
 4. - ALL VACUUM SEWER PIPE AND FITTINGS SHALL BE SCH 80 PVC.
 5. - ALL DOMESTIC WATER PIPE AND FITTINGS SHALL BE SCH. 80 PVC. PIPING LAND SIDE TO SEAWALL, AND SCH 40 PVC. PIPING FROM SEAWALL TO END OF PIER.

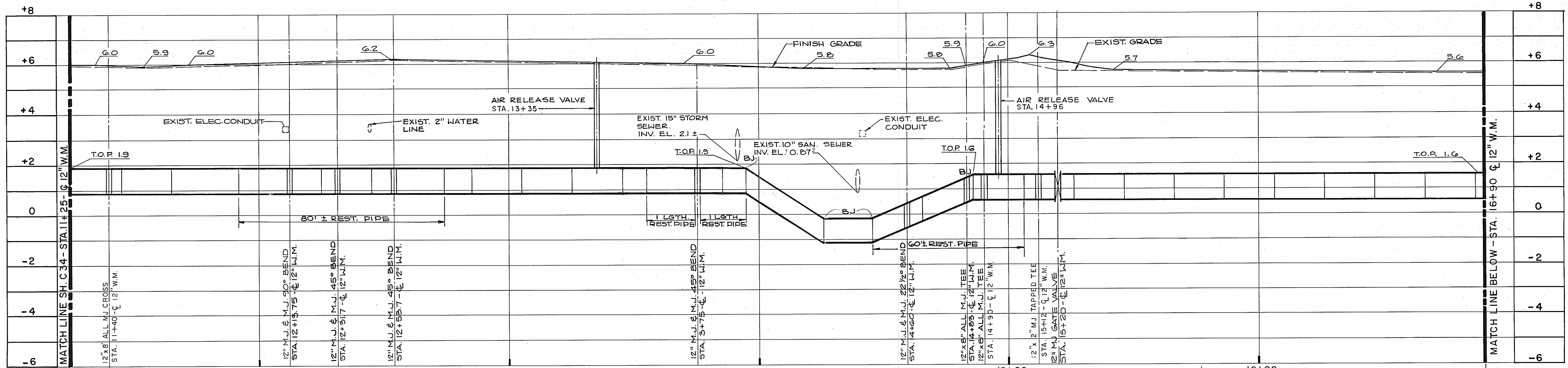


NOTES:
 1. FOR TYPICAL DETAILS SEE SHEETS C-41 THROUGH C-55
 2. FOR LEGEND SEE SHEET C-26

PROFILE
 SCALES: HORIZ.: 1" = 20'
 VERT.: 1" = 2'

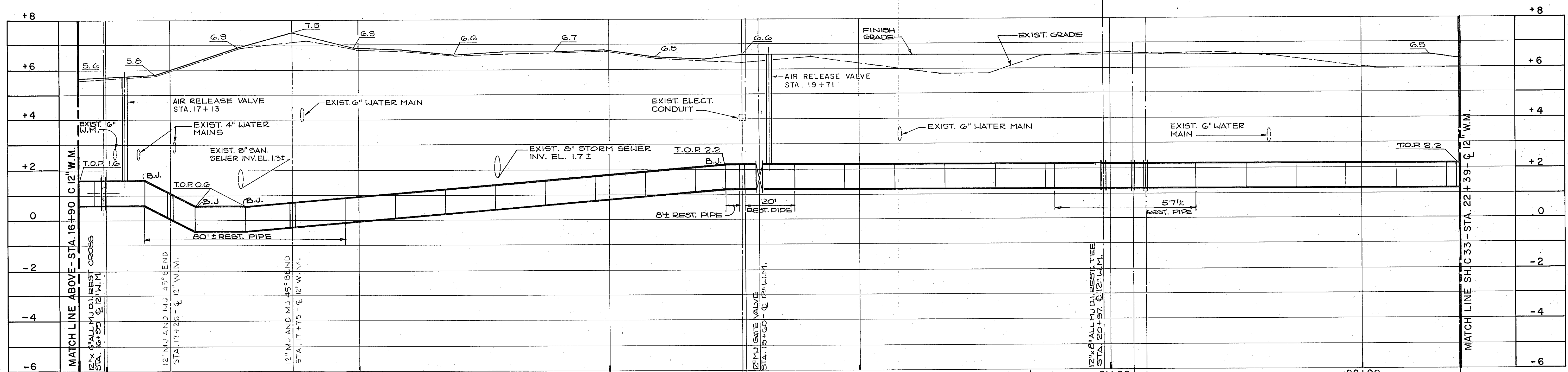


NO.	DATE



SEE PLAN SH. C29 SEE PLAN SH. C30

565 L.F. 12" D.I.P. WATER MAIN

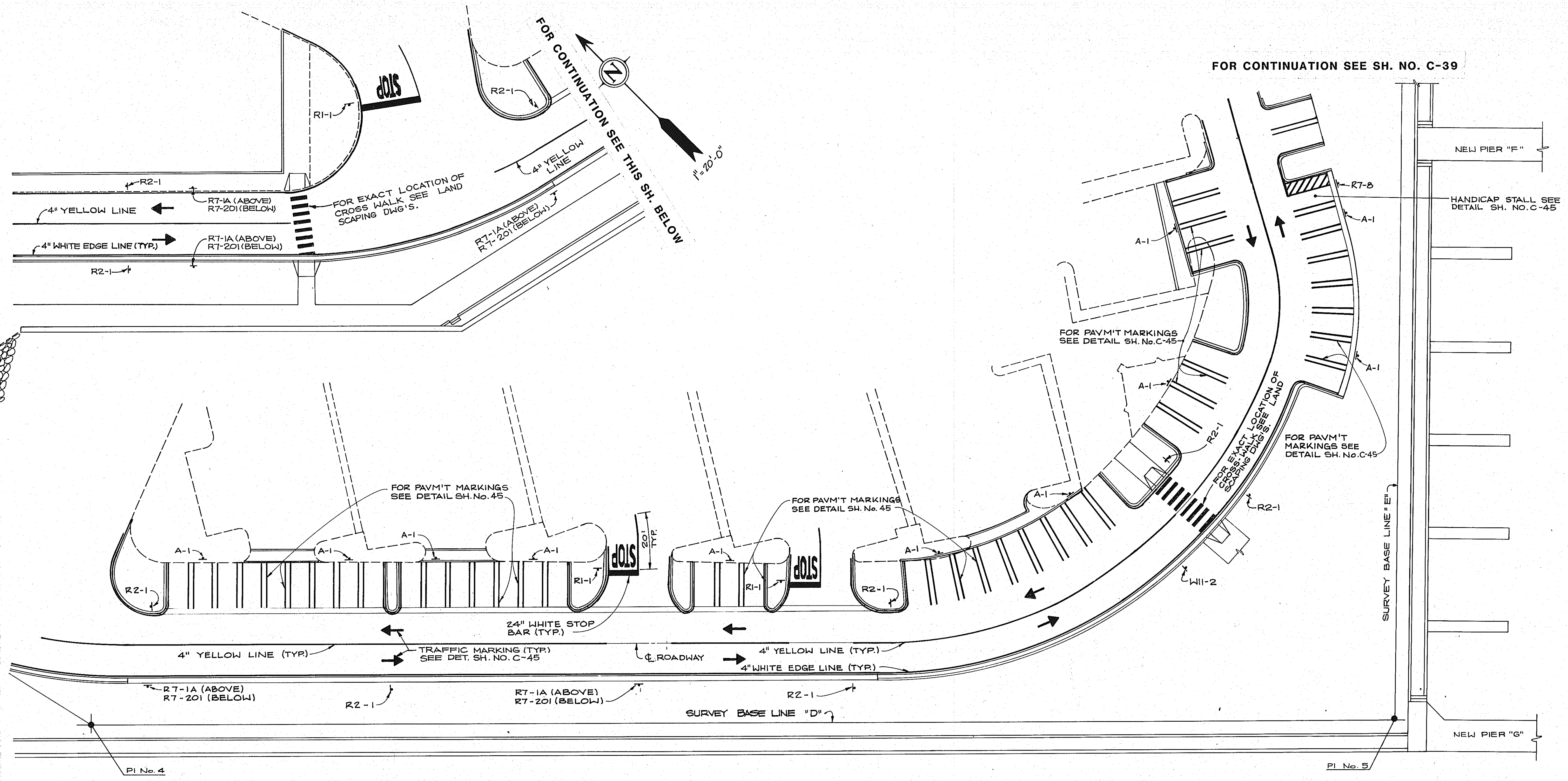


SEE PLAN SH. C30 SEE PLAN SH. C31 SEE PLAN SH. C32

549 L.F. 12" D.I.P. WATER MAIN

PROFILE
 SCALES: HORIZ: 1" = 20'
 VERT: 1" = 2'

FOR CONTINUATION SEE SH. NO. C-63
 FOR CONTINUATION SEE THIS SH. ABOVE
 FOR CONTINUATION SEE THIS SH. BELOW



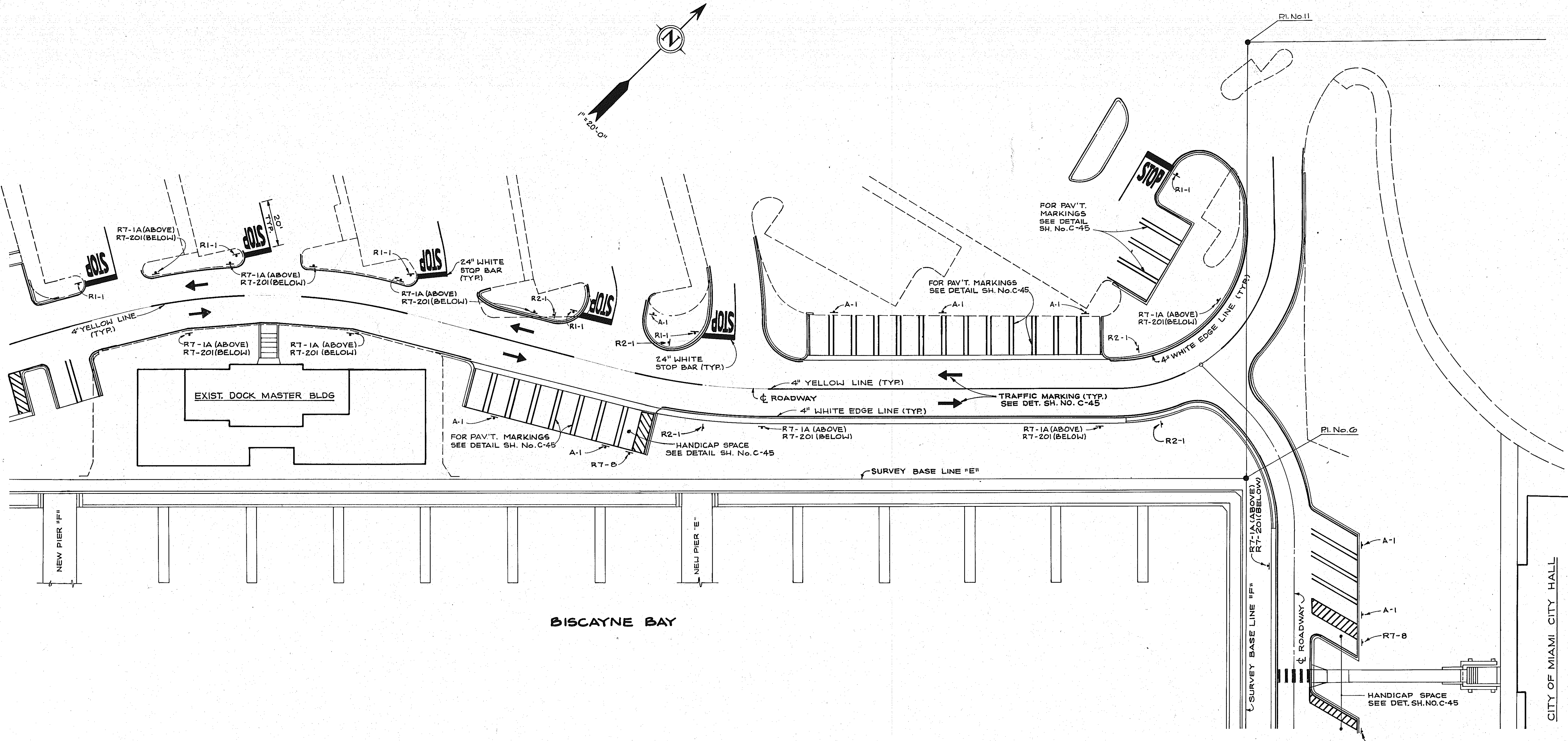
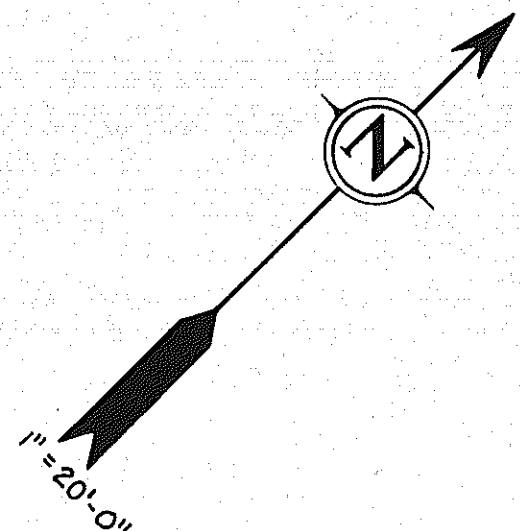
BISCAYNE BAY

SIGN	DESCRIPTION
	No. R1-1 30" x 30"
	No. R2-1 24" x 30"
	No. R5-1 30" x 30"

SIGN	DESCRIPTION
	No. R6-1L 36" x 12"
	No. R7-1A 24" x 30"
	No. R7-201 12" x 6"

SIGN	DESCRIPTION
	No. R7-8 12" x 18"
	No. W11-2 30" x 30"
	No. W11-2P 24" x 18"

SYMBOL	DESCRIPTION
A-1	AREA 1 PARKING SIGN RELOCATE EXISTING OR PROVIDED BY CITY
C-1	COMMISSIONER PARKING SIGN RELOCATE EXISTING OR PROVIDED BY CITY
P-1	MAIL VEHICLE PARKING SIGN RELOCATE EXISTING OR PROVIDED BY CITY



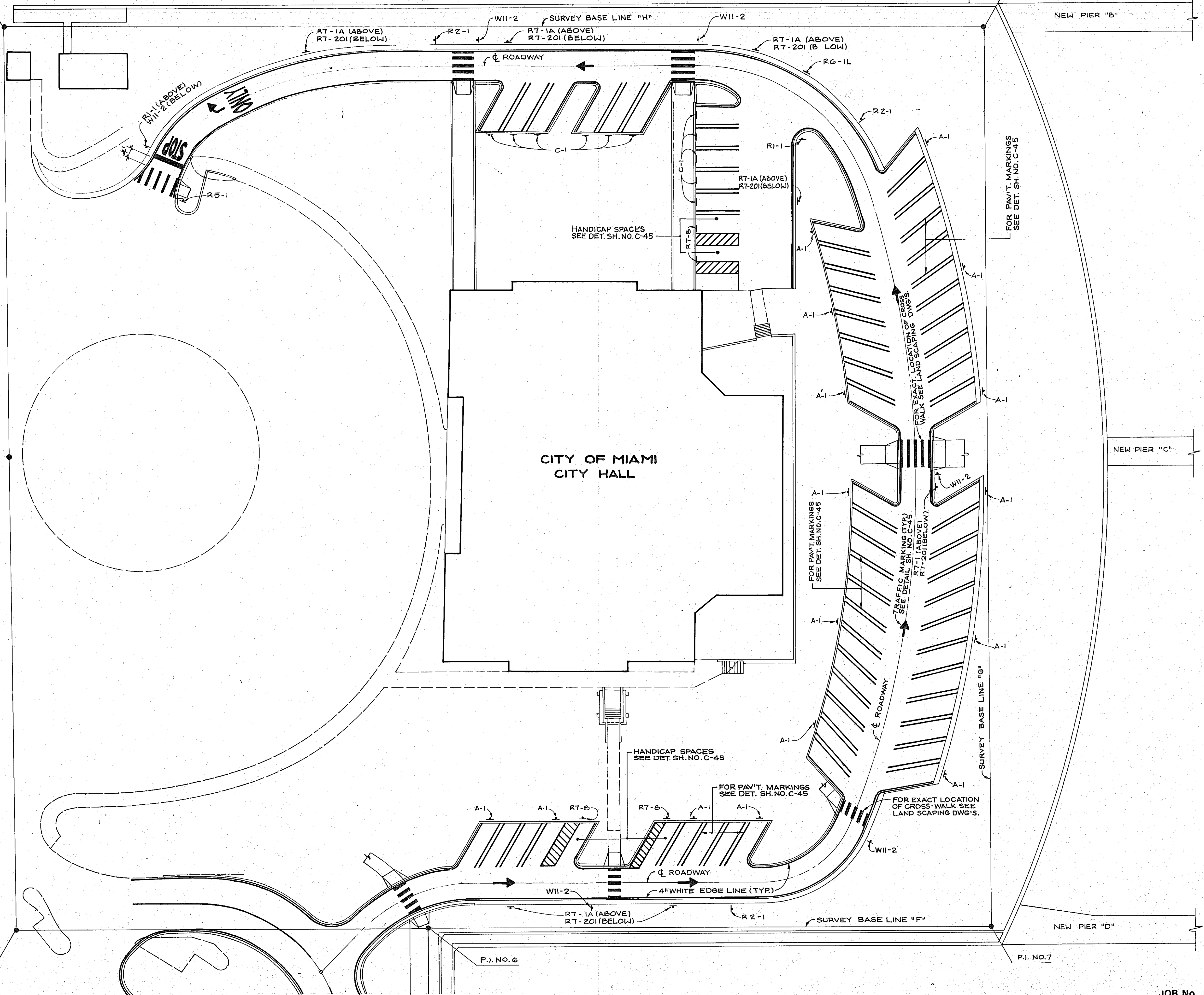
FOR CONTINUATION SEE SH. NO. C-40

REVISIONS

NO.	DATE	DESCRIPTION

P.I. NO. 9

P.I. NO. 8



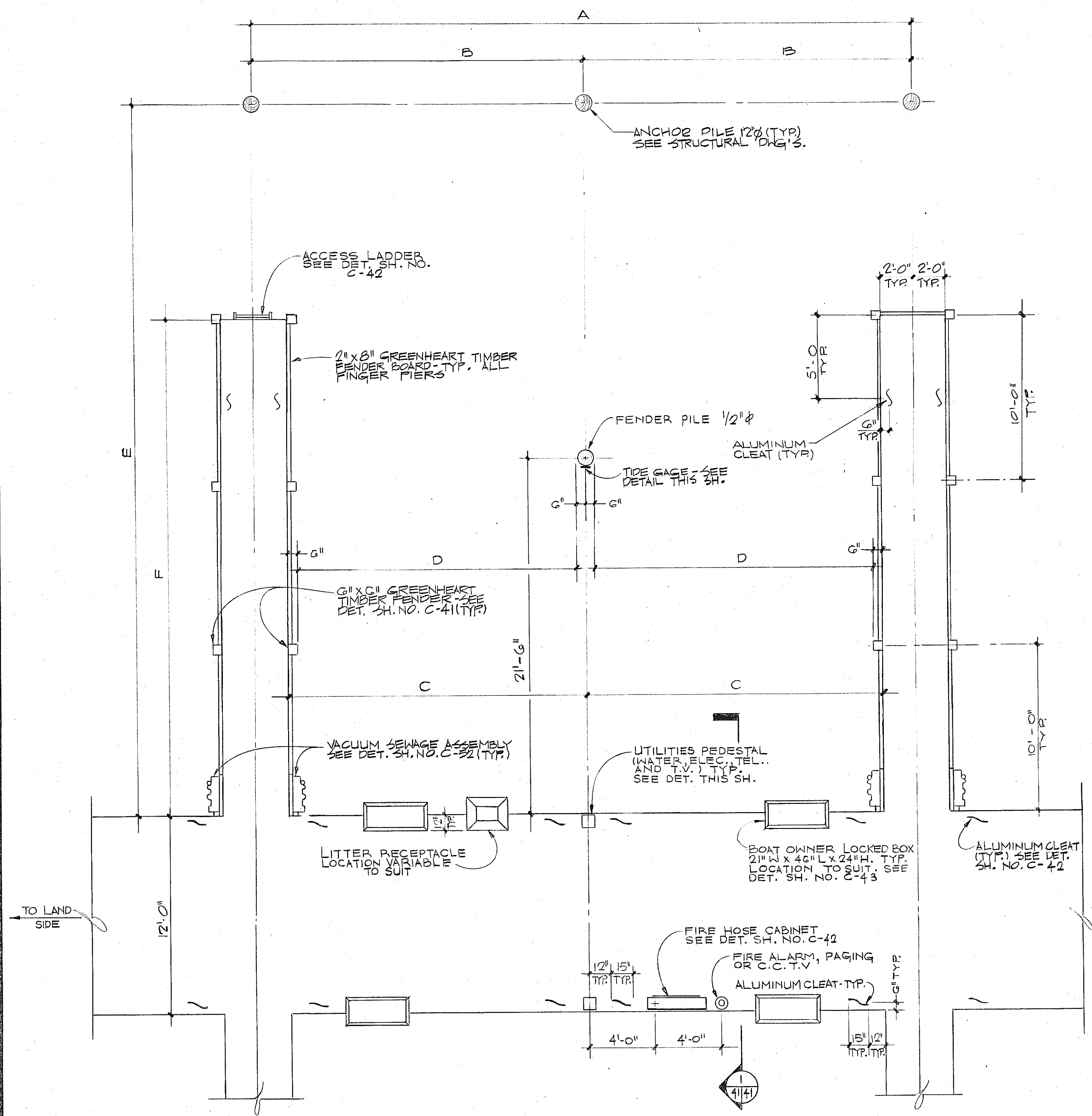
P.I. NO. 11

P.I. NO. 6

P.I. NO. 7

FOR CONTINUATION SEE SH. NO. C-39

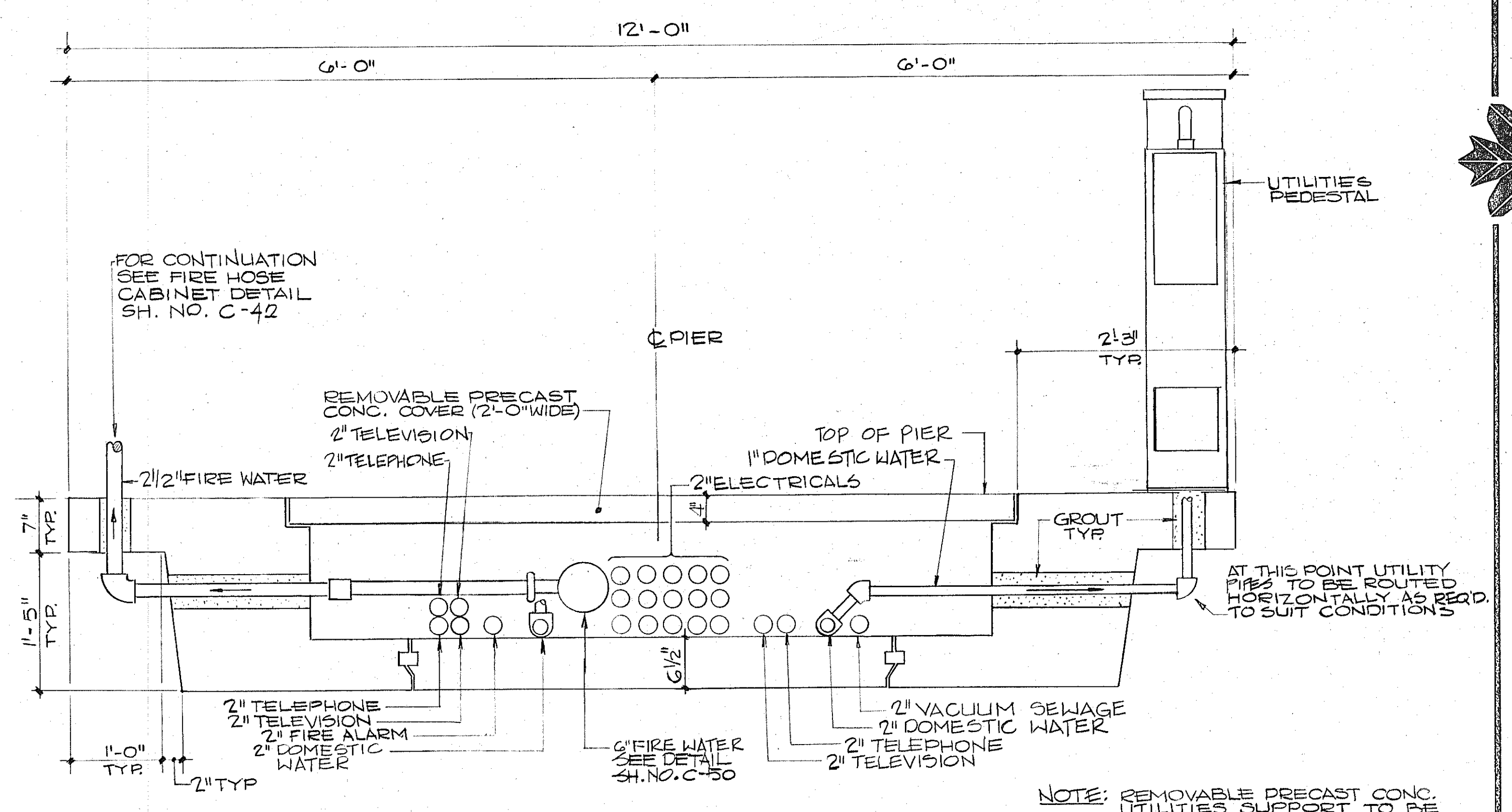
JOB No. B' 3292
 FILE ARCH. 3-1-8



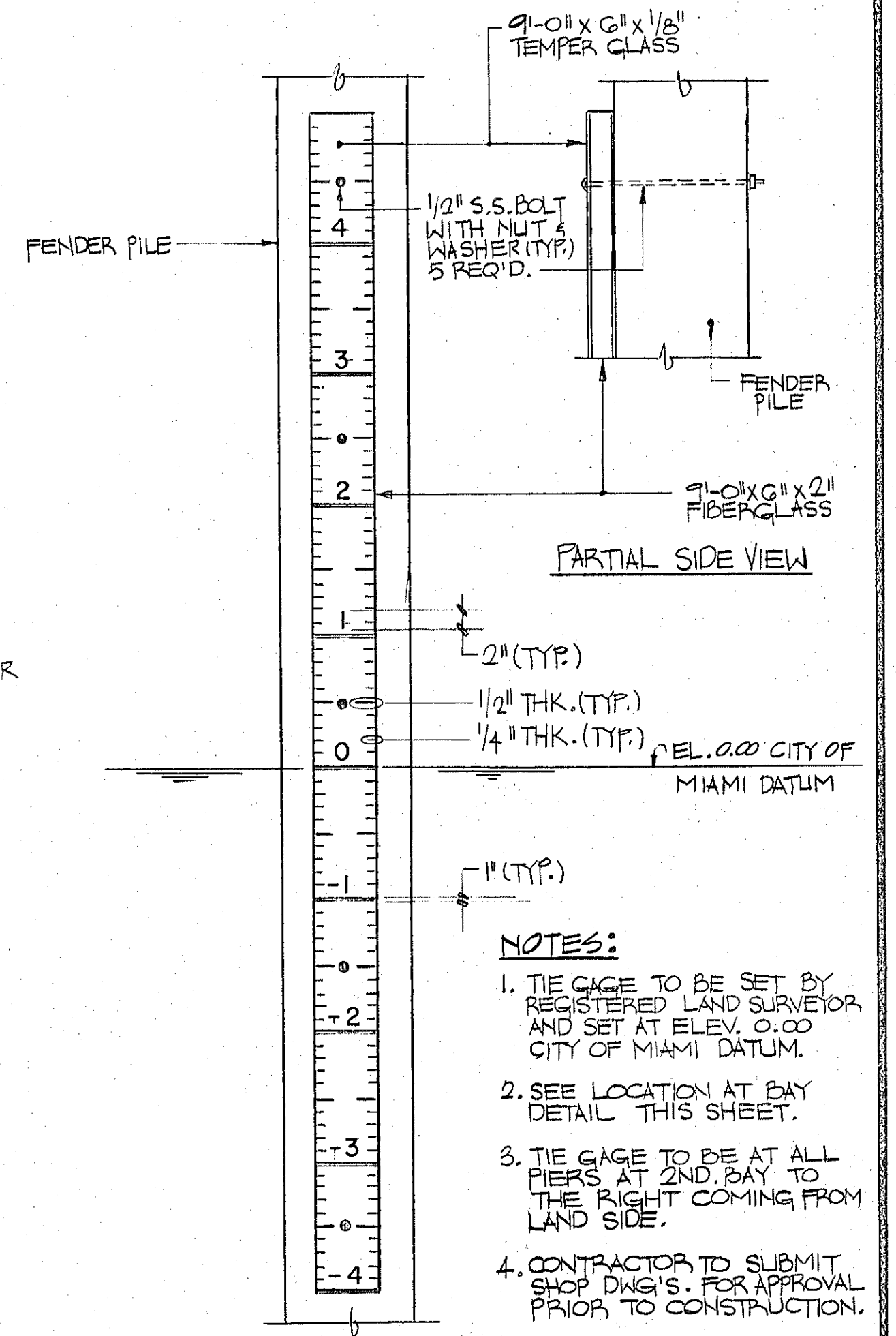
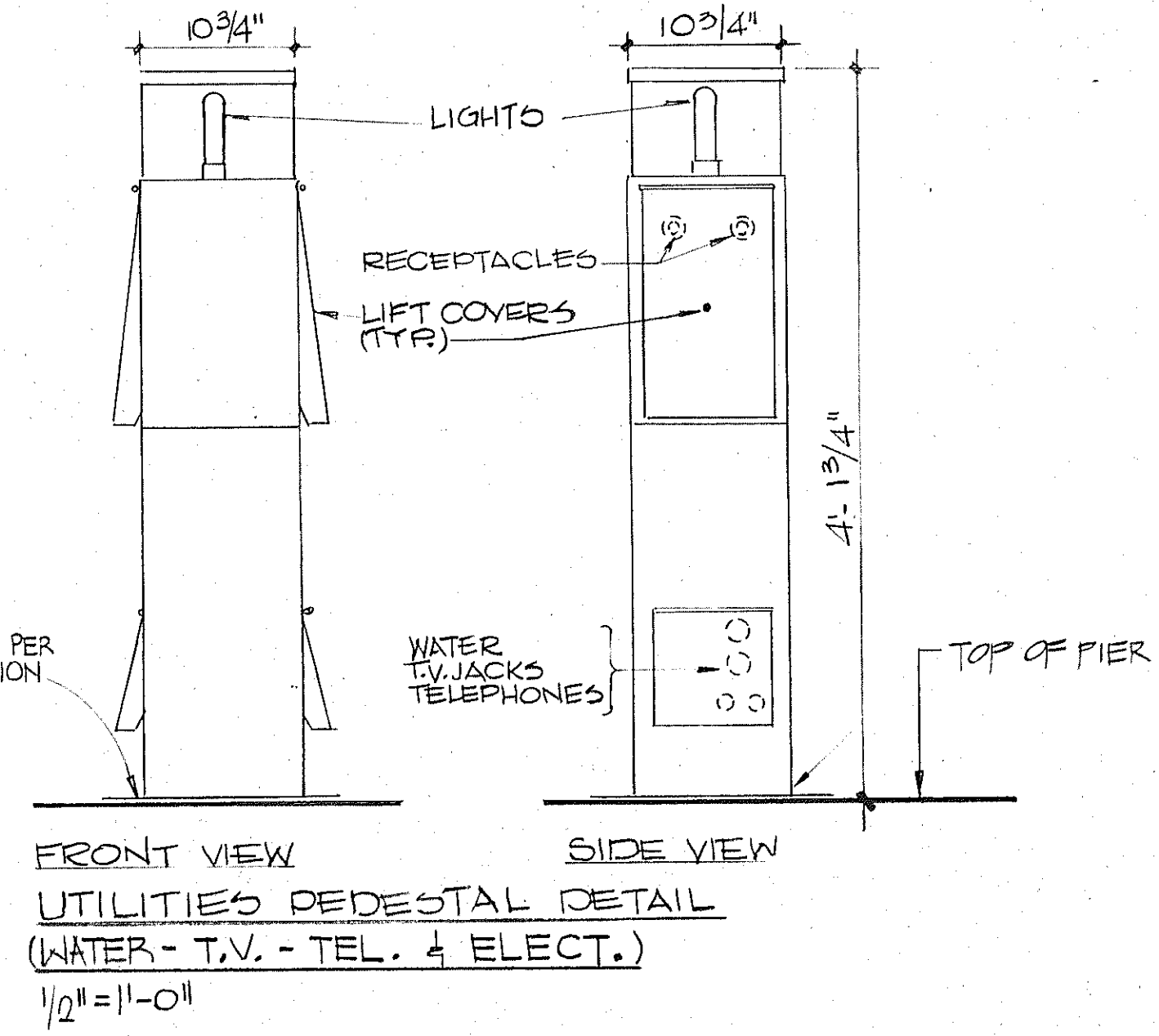
BOAT SLIP SCHEDULE

BOAT LENGTH	DIMENSIONS (FT.)					
	A	B	C	D	E	F
30	35	17.5	15.5	14.5	33	30
35	36	18	16	15	38	30
40	40	20	18	17	43	30
45	43	21.5	19.5	18.5	48	34
50	45	22.5	20.5	19.5	53	38
55	49	24.5	22.5	21.5	58	42
60	50	25	23	22	63	45

A = SLIP WIDTH
 D = 1/2 A
 C = B - 2.0'
 D = B - 3.0'

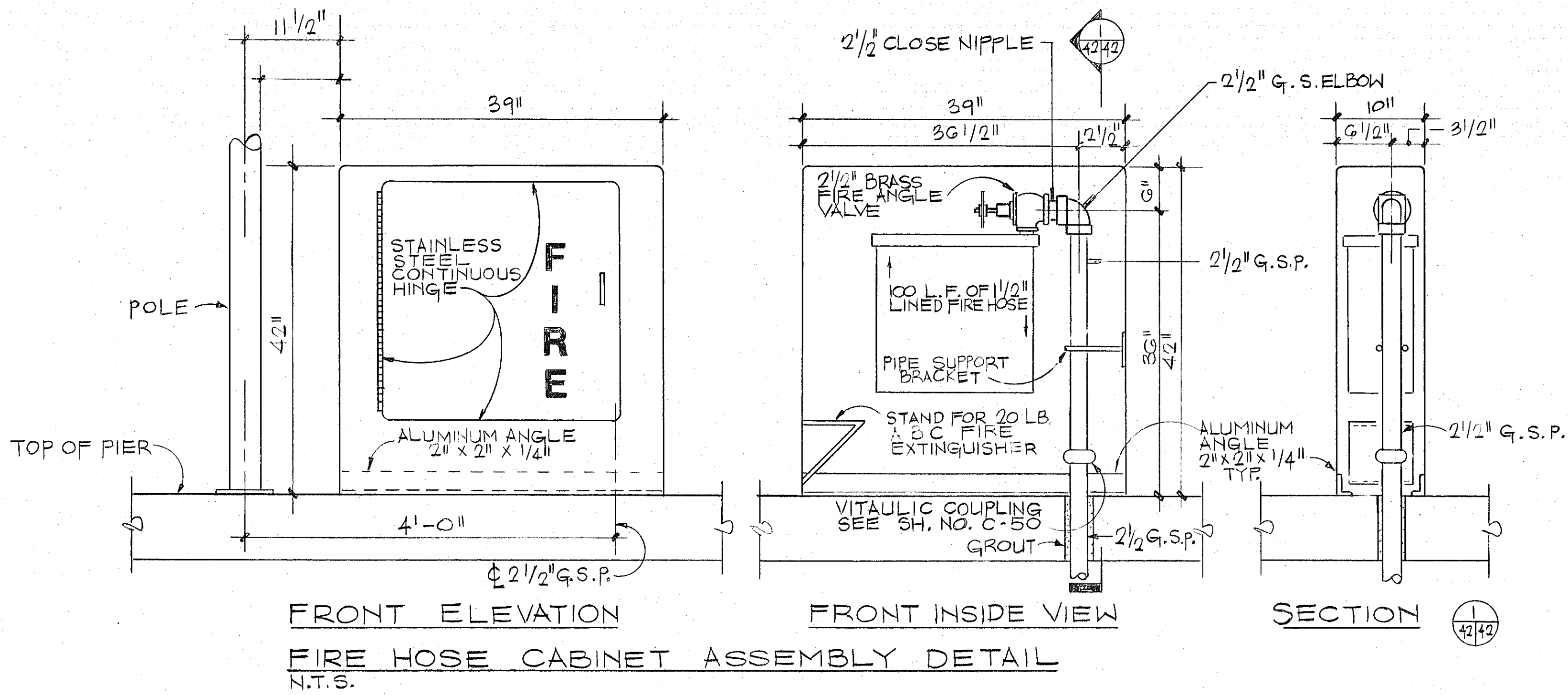


TYPICAL PIER UTILITIES CROSS-SECTION DETAIL
 1" = 1'-0"



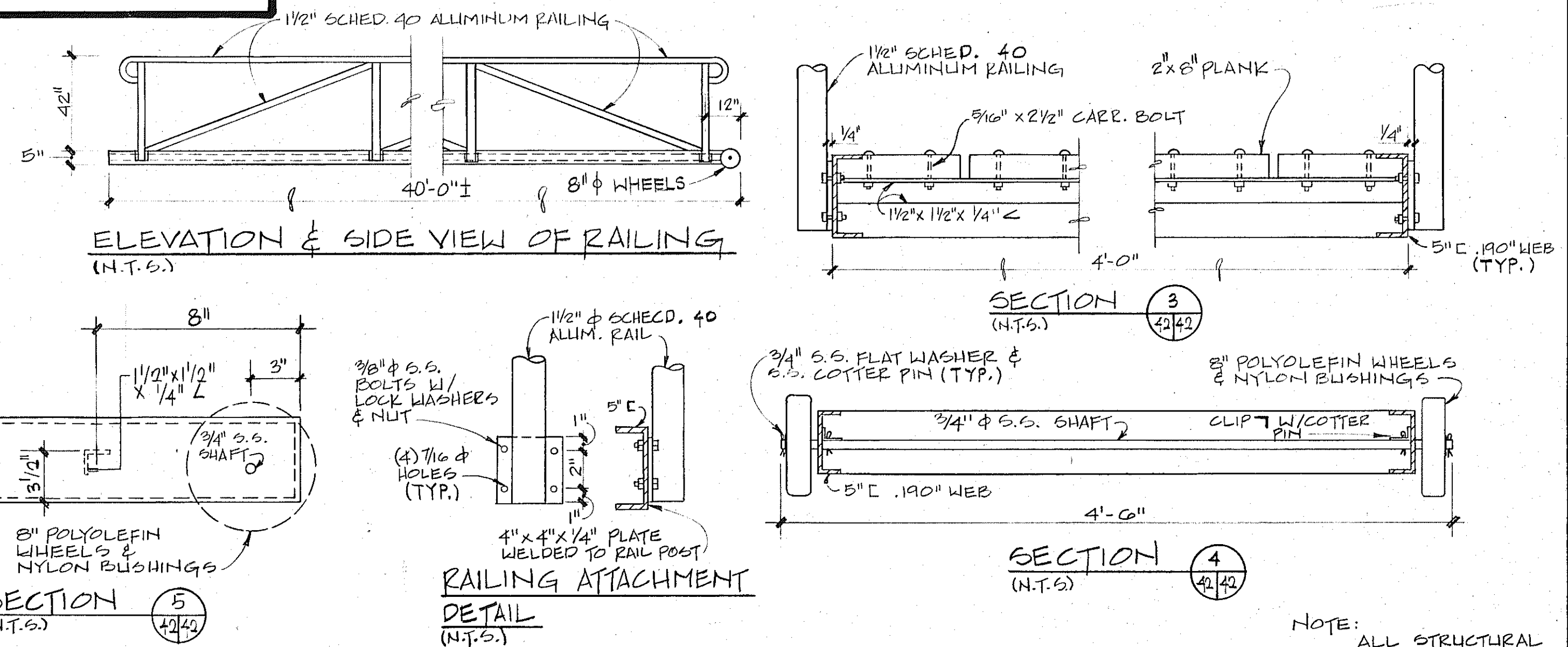
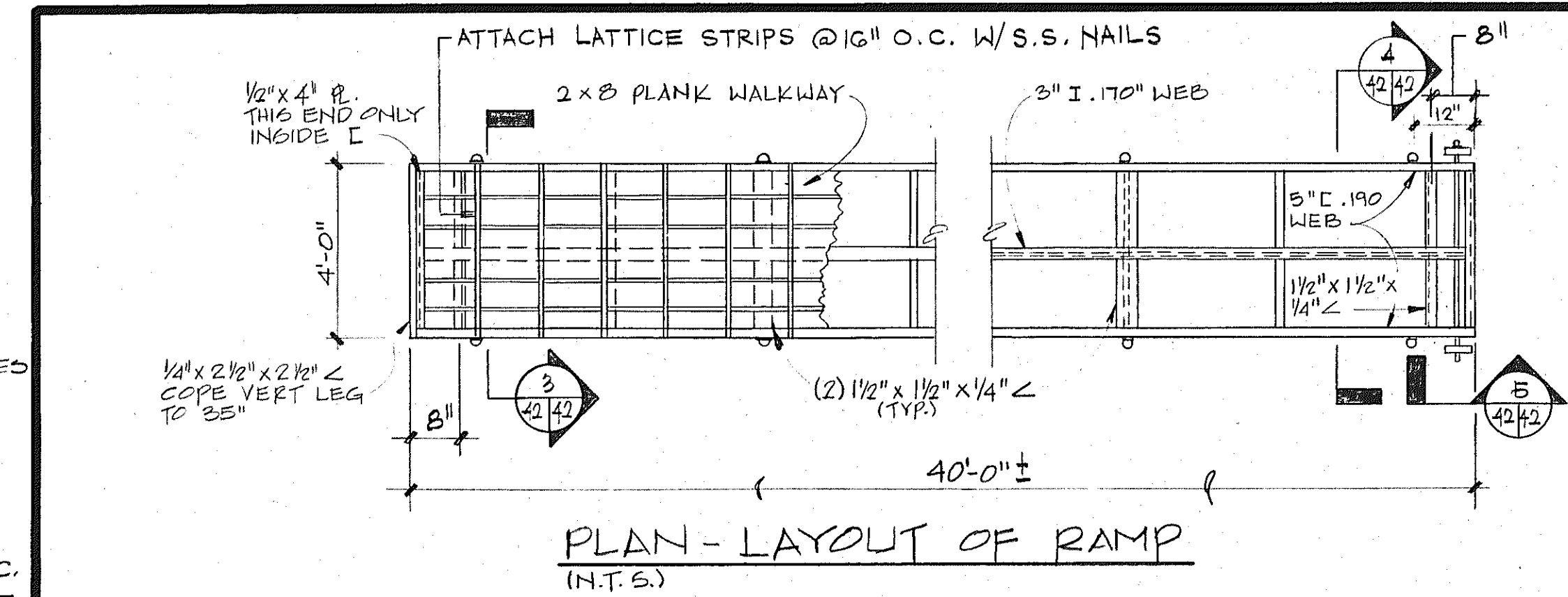
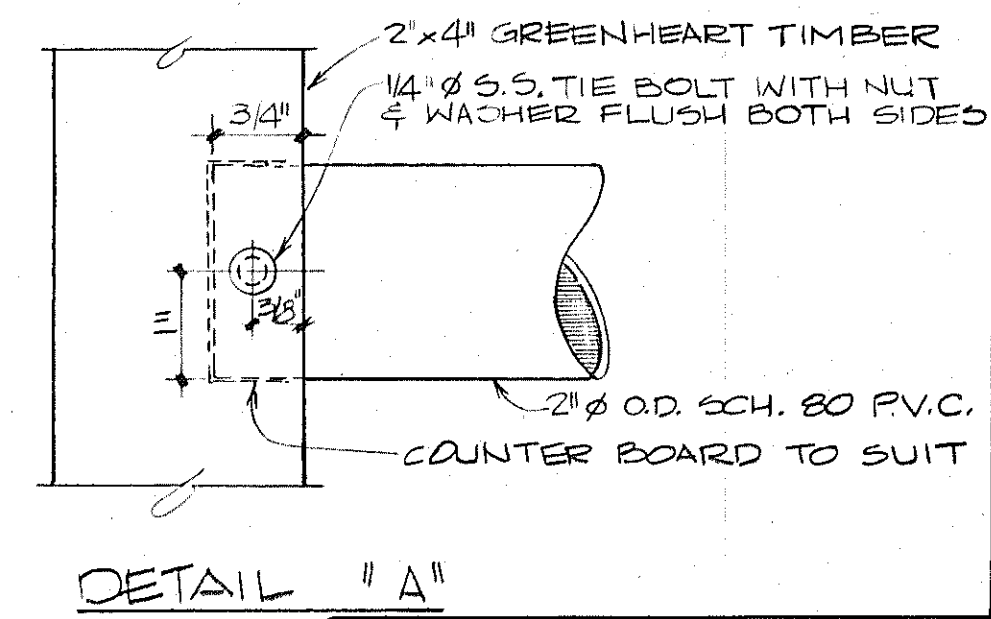
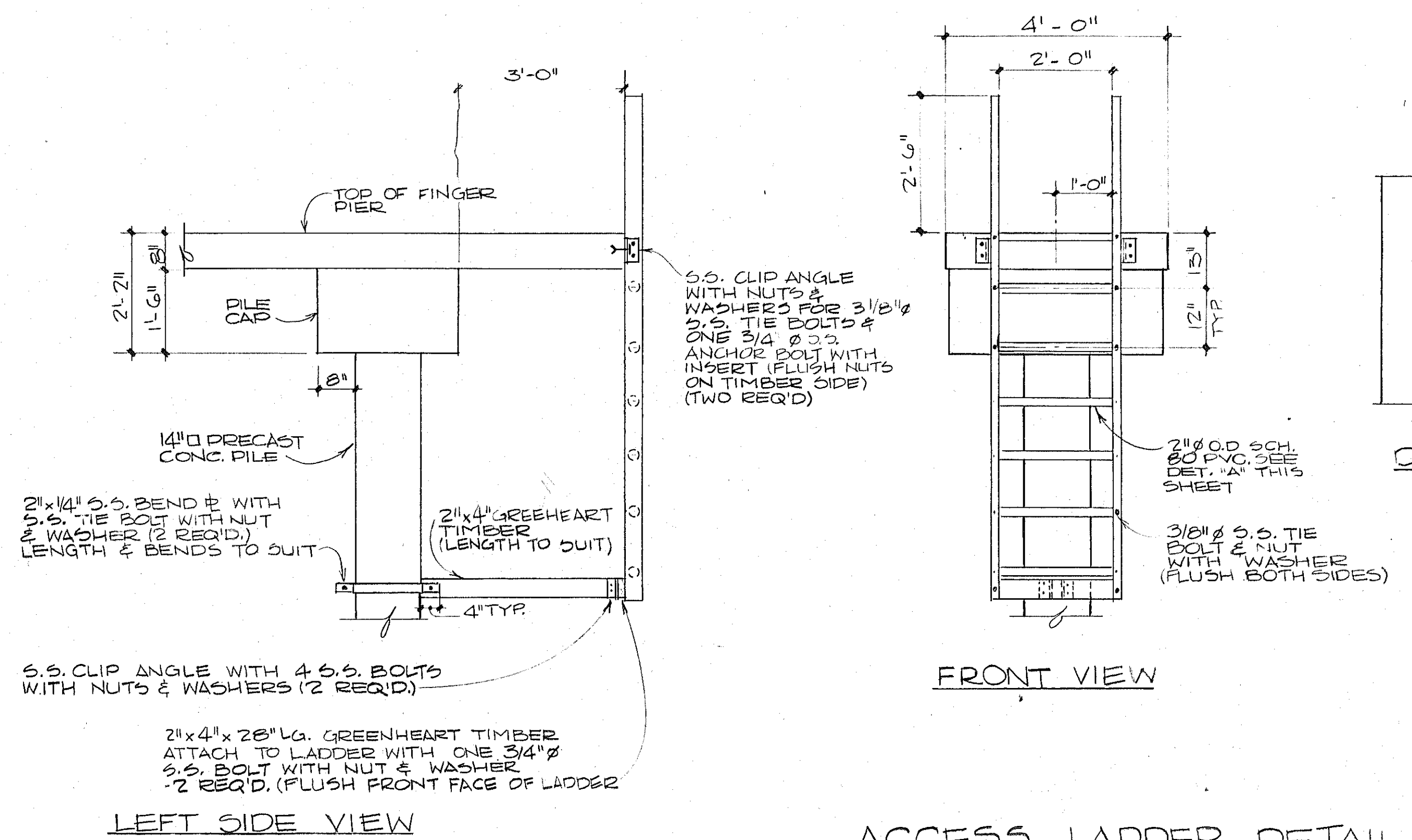
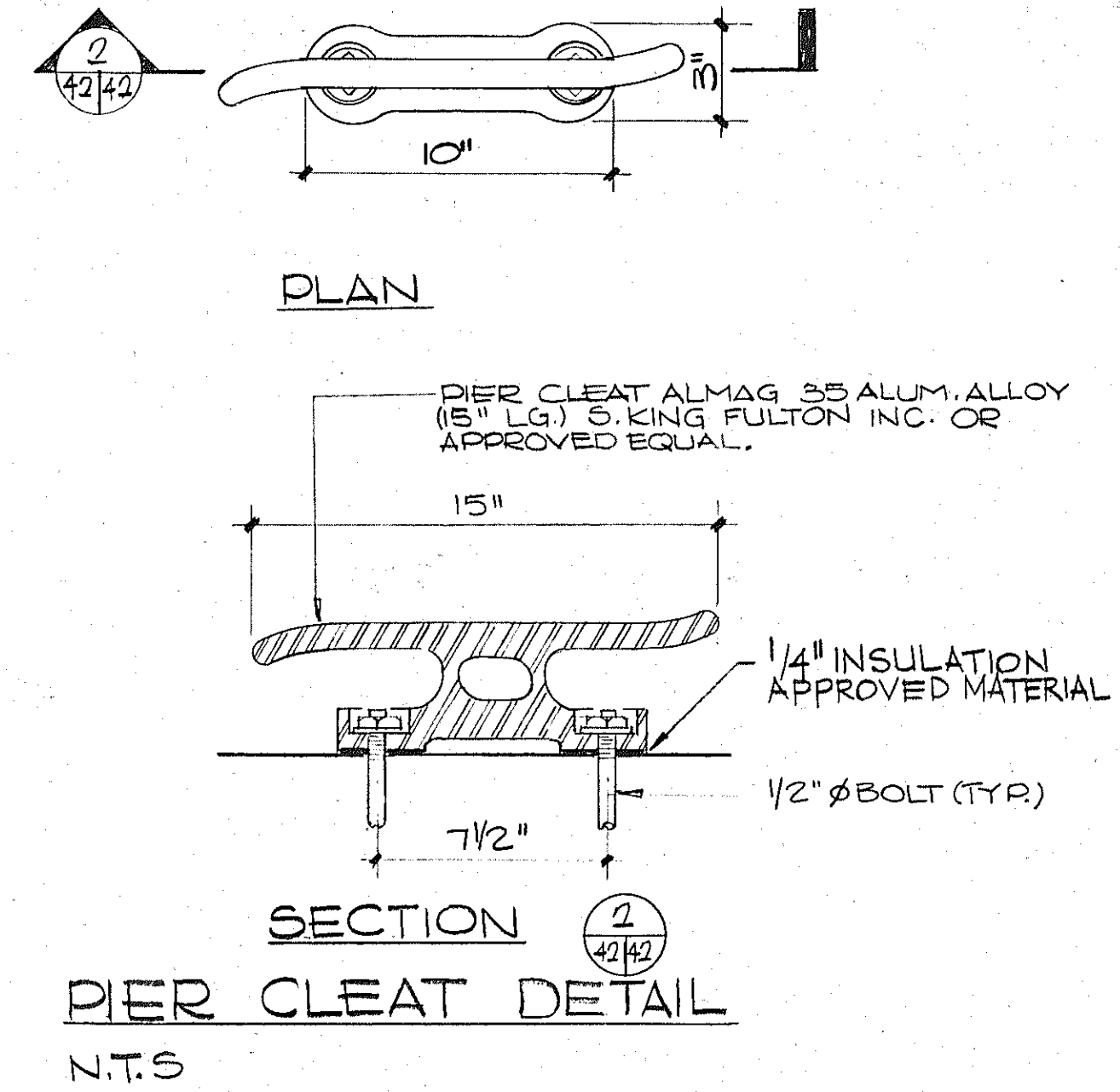
TIDE GAGE DETAIL
 N.T.S.

BAY DETAIL
 1/4" = 1'-0"



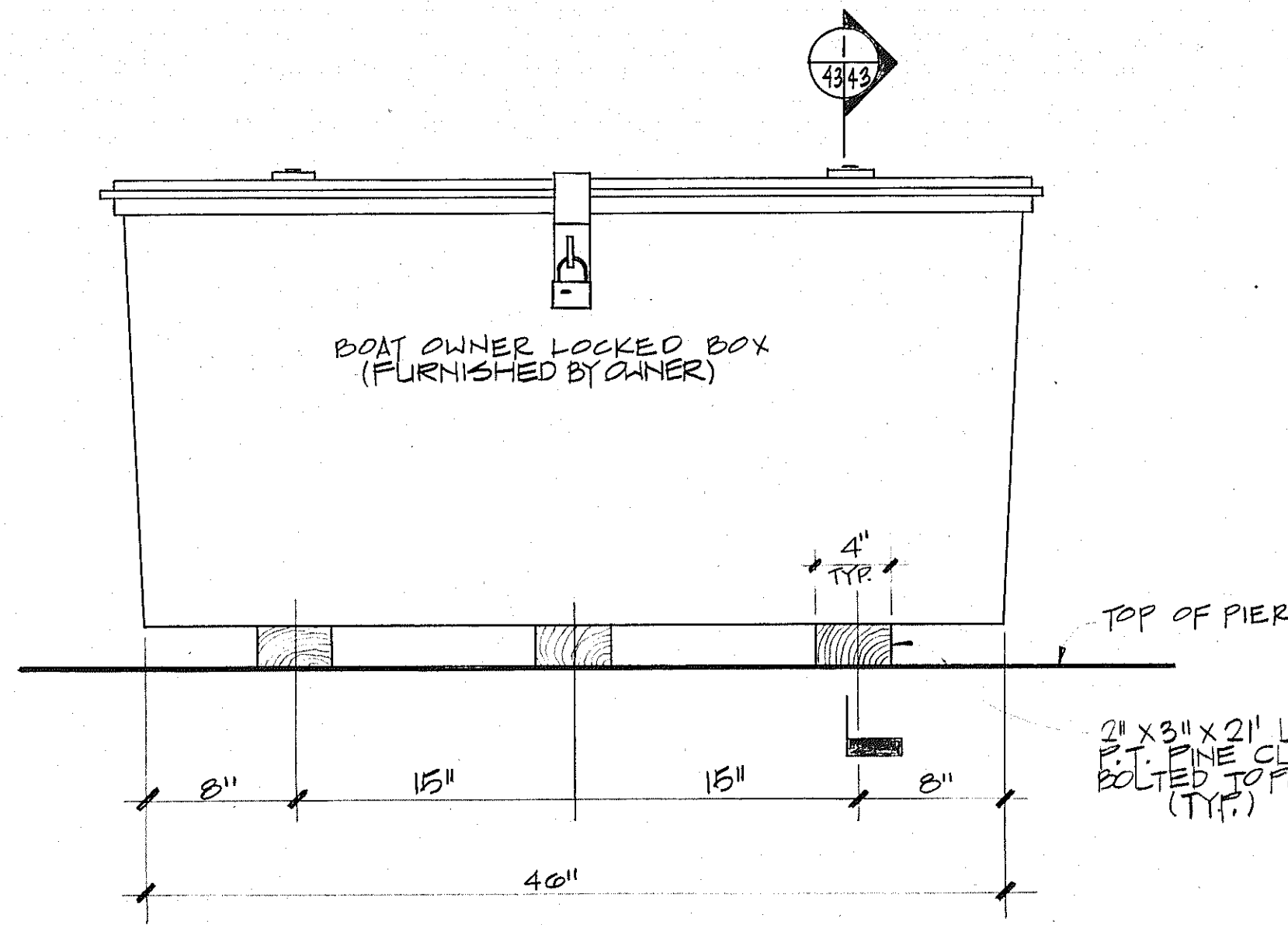
NOTES:

- FIRE EQUIPMENT CABINET SHALL BE RED WITH WHITE LETTERS AS DIRECTED BY THE OWNER.
- ALL EXTERIOR CORNERS OF CABINET SHALL BE 1/2" RADIUS MINIMUM.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF COMPLETE HOSE CABINET PRIOR TO FABRICATION.
- 2" x 2" x 1/4" ALUMINUM ANGLE WELDED TO HOUSING FOR MOUNTING UNIT TO DOCK. PRE-DRILLED FOR SIX 1/2" ϕ BOLTS. RECOMMENDED THAT UNITS BE MOUNTED WITH 3/16" ϕ STAINLESS STEEL WASHERS.
- CONSTRUCTED OF 1/8" 50-52 MARINE GRADE ALUMINUM.
- PROVIDE APPROVED INSULATION MATERIAL 1/4" THICK BETWEEN CONCRETE STRUCTURE AND ALUMINUM STRUCTURE



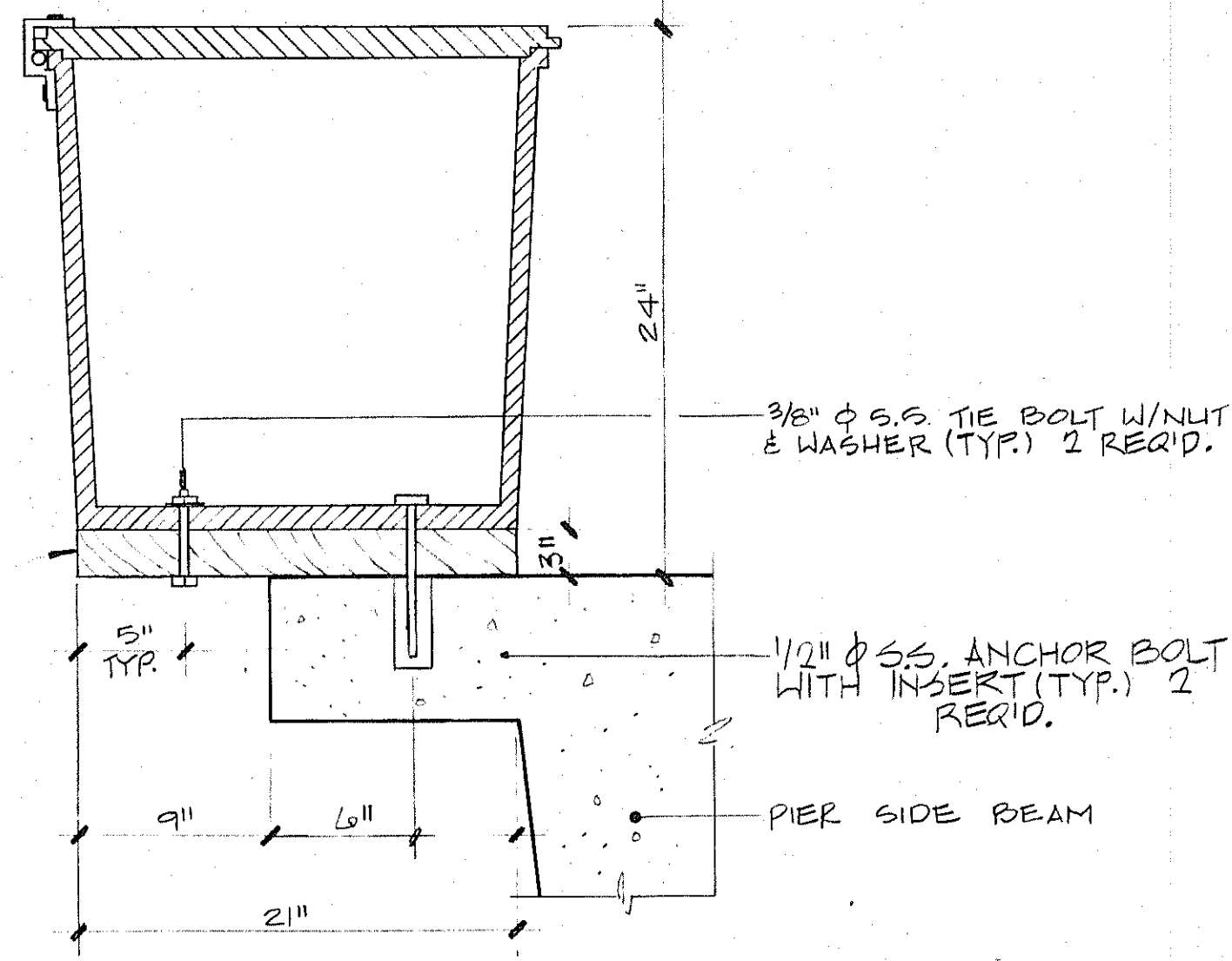
FLOATING DOCK RAMP DETAILS

NOTE: THESE DETAILS SHOW A CONCEPTUAL SCHEMATIC DESIGN. CONTRACTOR TO SUBMIT SHOP DWG'S. FOR APPROVAL PRIOR TO CONSTRUCTION.

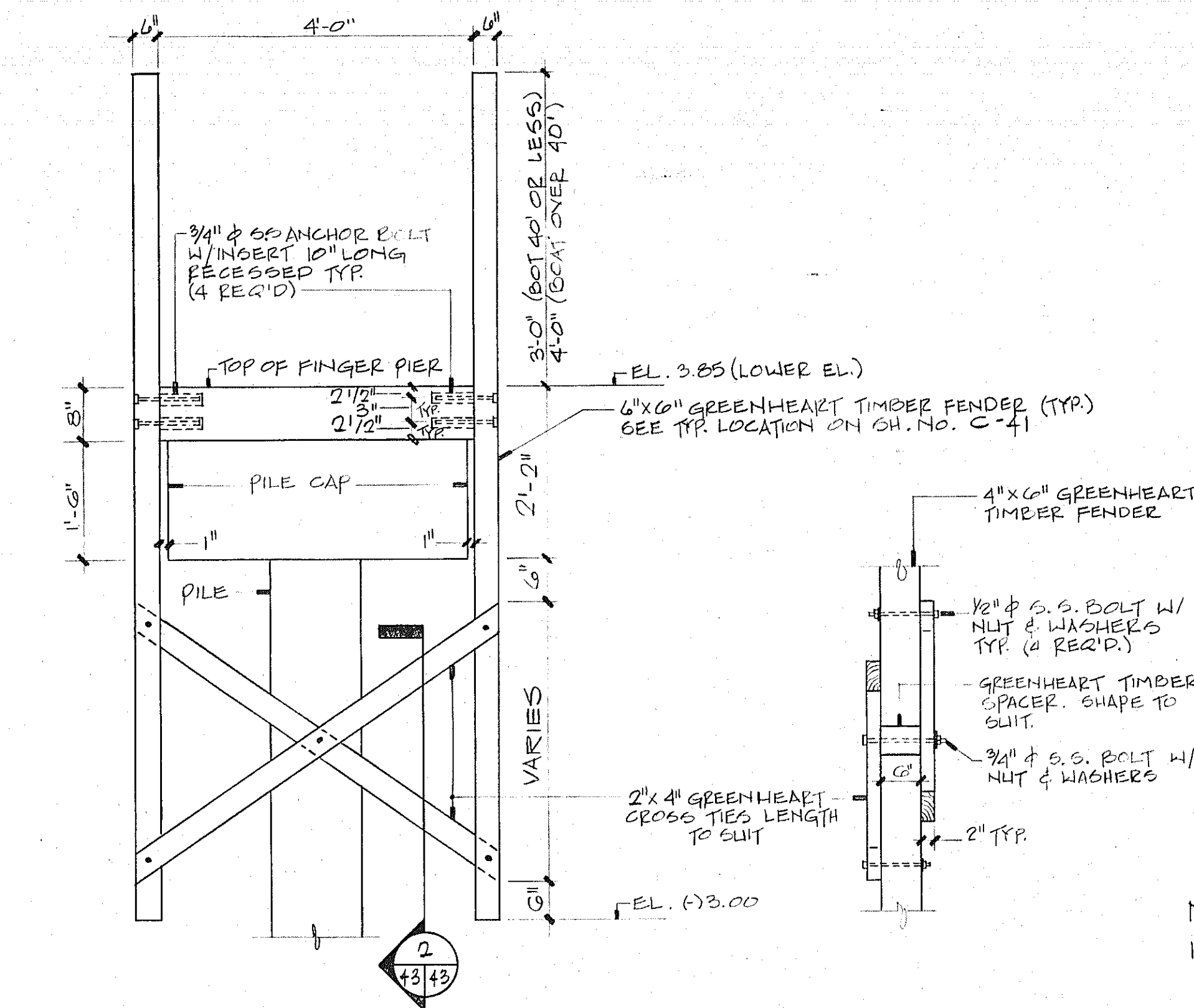


FRONT ELEVATION

BOAT OWNER LOCKED BOX ATTACHMENT TO PIER DETAIL
1/2" = 1'-0"



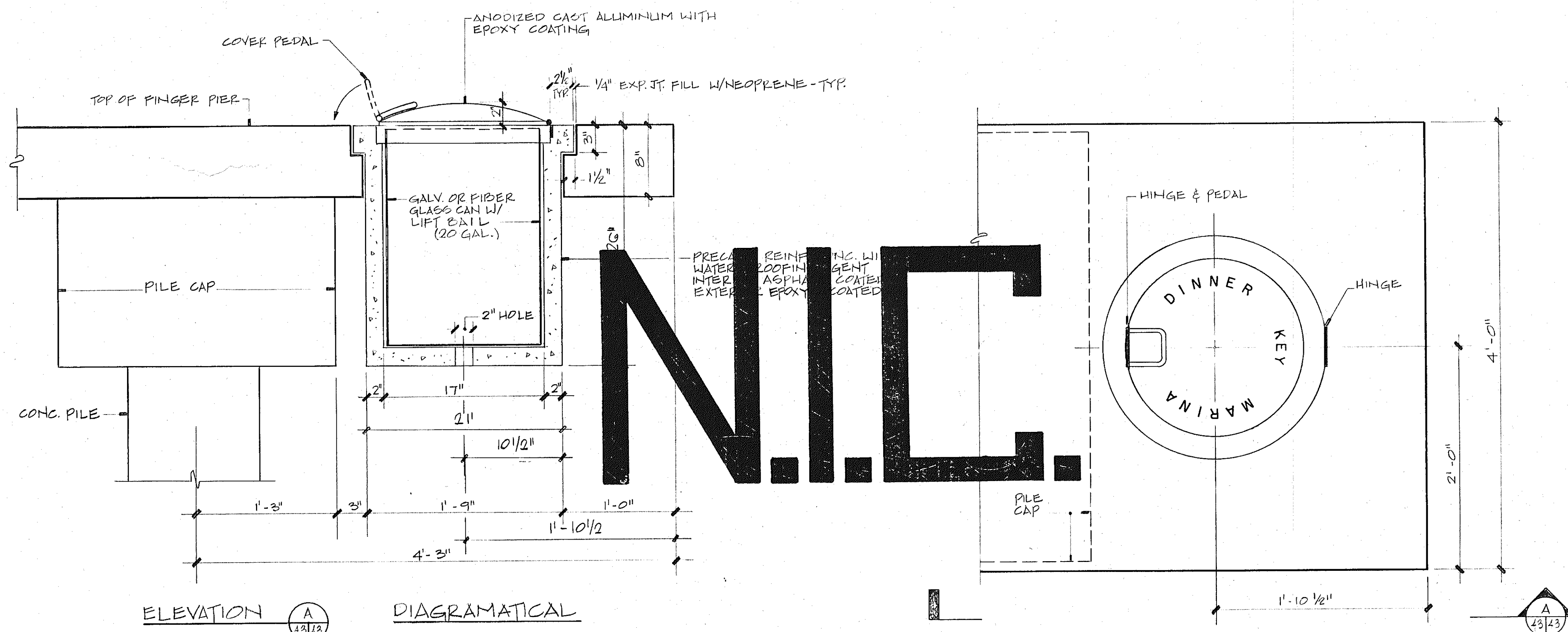
SECTION



TYP. FENDER DETAIL AT FINGER PIER
(N.T.S.)

SECTION

- NOTES:
1. FINGER PIERS TOP ELEVATION VARIES. SEE STRUCTURAL DWG'S.
 2. CONTRACTOR TO SUBMIT SHOP DWG'S PRIOR TO CONSTRUCTION FOR APPROVAL.

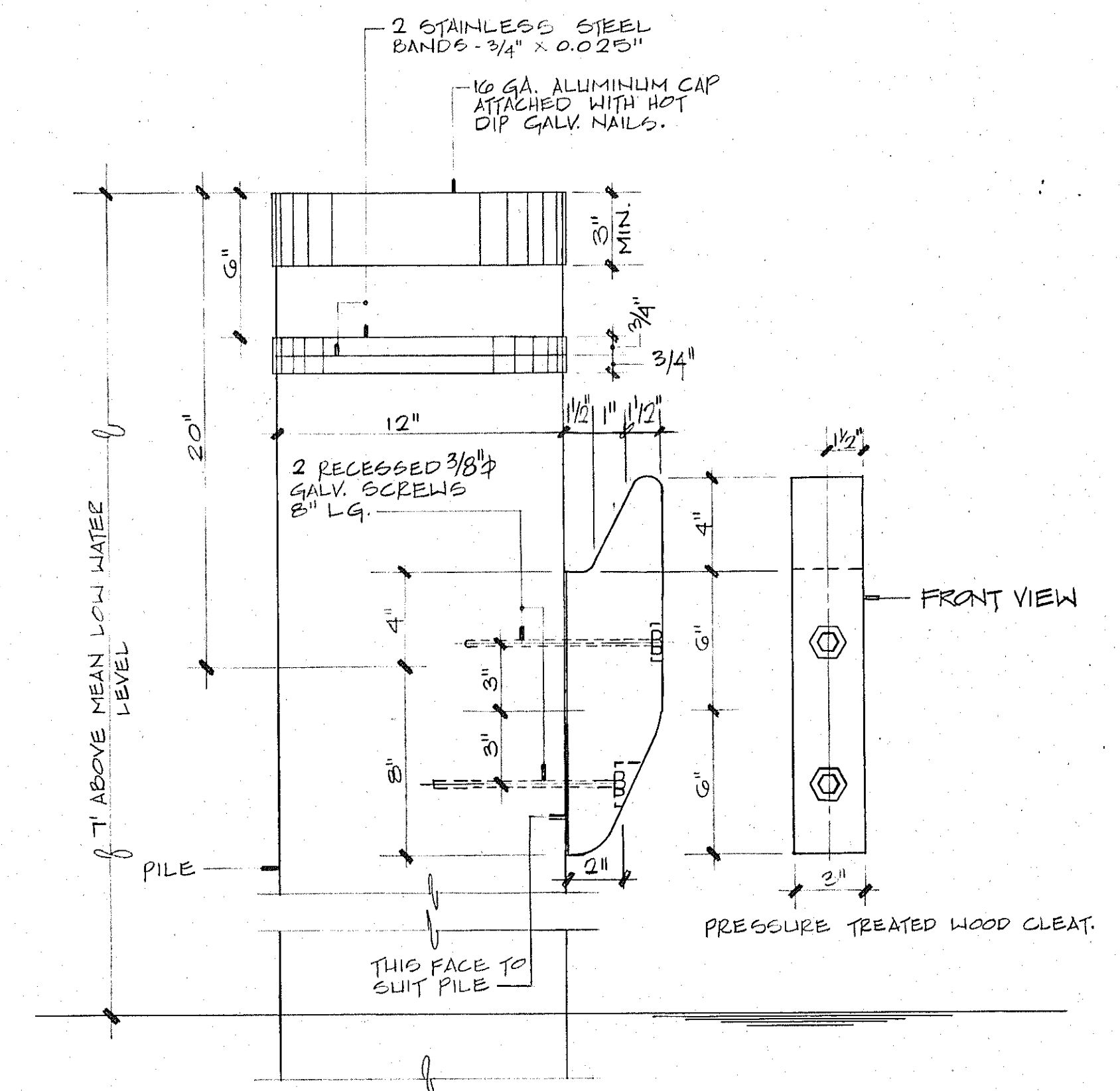


ELEVATION

DIAGRAMATICAL

TRASH CONTAINER AT FINGER PIER DETAIL

PLAN



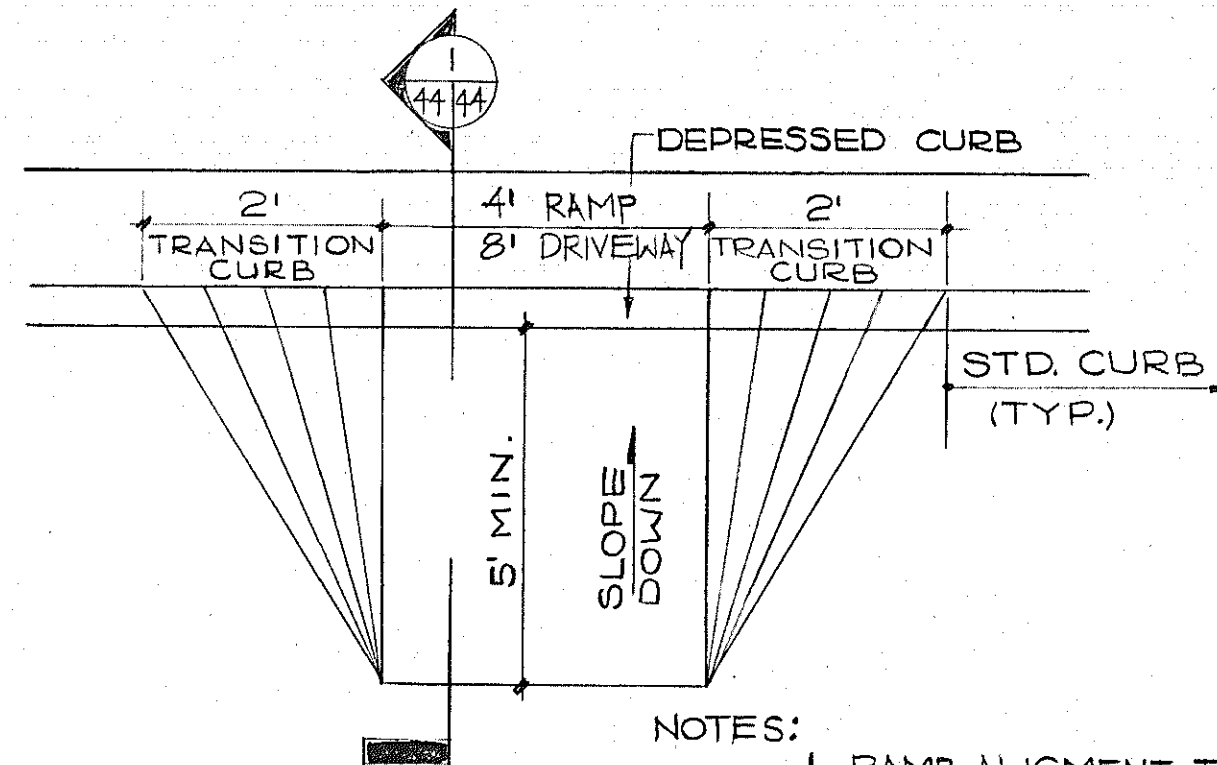
TYPICAL ANCHOR AND FENDER PILE ATTACHMENTS DETAIL
N.T.S.

NOTES:

1. TRASH CONTAINER CONSIST OF:
 - A) PRECAST CONC. SHELL TO SUIT ON FINGER PIER CONC. SLAB
 - B) GALV. OR FIBER GLASS TRASH CAN (INSIDE CONC. SHELL)
 - C) CAST ALUMINUM COVER W/DOUBLE SET OF HINGES
 - D) TO BE AS MANUFACTURED BY DENMARK ART. STONE CO. OR APPROVED EQUAL
2. SEE LOCATIONS IN OCEAN SIDE, SH'S. NO. C-5 THRU C-10.
3. CONTRACTOR TO SUBMIT SHOP DWG'S. PRIOR TO CONSTRUCTION FOR APPROVAL.

REVISIONS

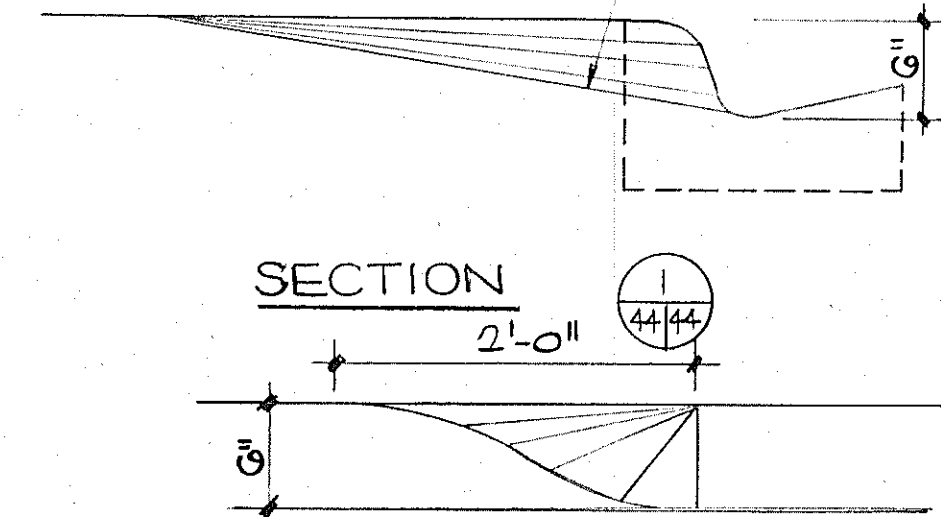
NO.	DATE	DESCRIPTION



PLAN

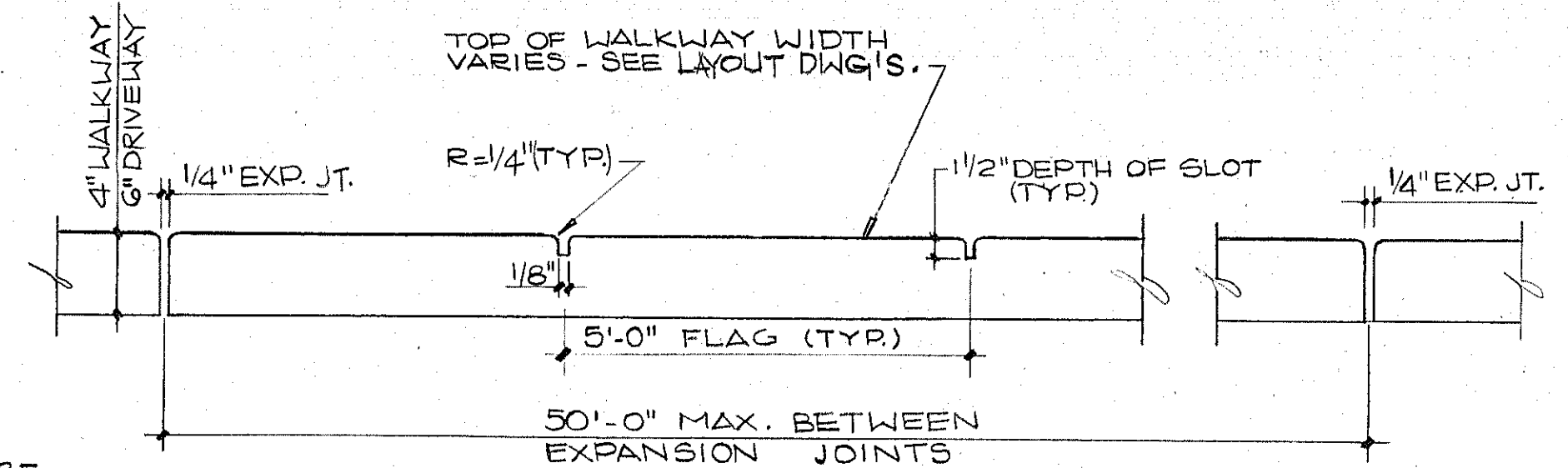
- NOTES:
1. RAMP ALIGNMENT TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
 2. FOR LOCATIONS SEE LAYOUT DWG'S.

SLOPE SHALL BE A MAXIMUM OF 1 IN 12 OR FLATTER WHERE CURB HEIGHT VARIES FROM 6"



ELEVATION

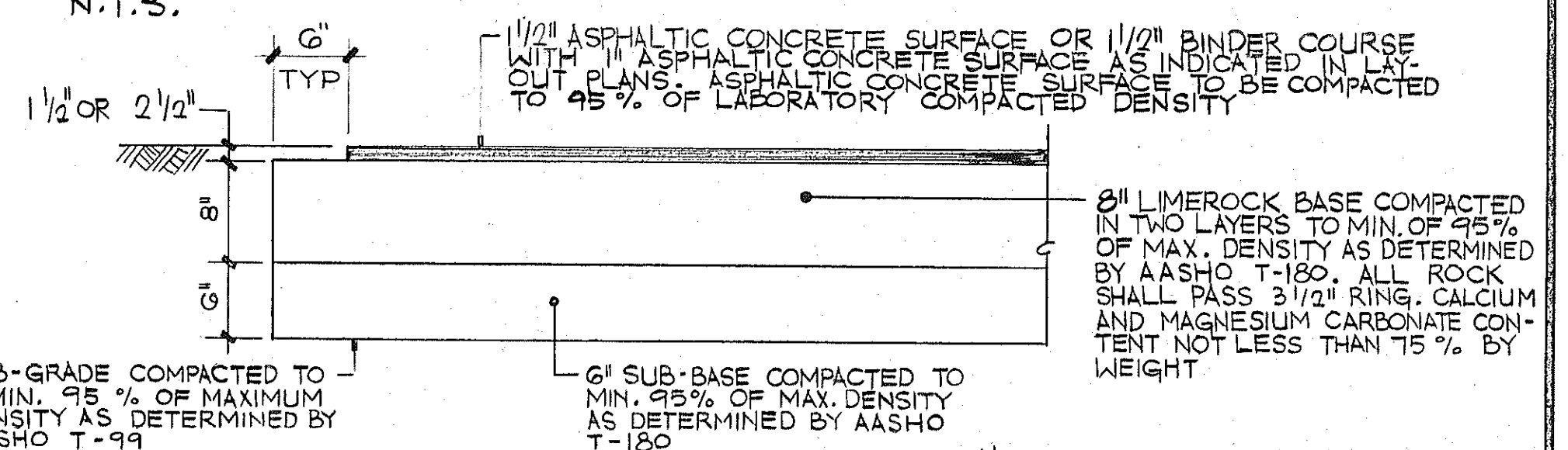
HANDICAP RAMP AND DRIVEWAY DETAIL
N.T.S.



CONCRETE WALKWAY DETAIL
N.T.S.

- NOTES:
1. ALL WORK SHALL COMPLY WITH CITY OF MIAMI STANDARD SPECIFICATIONS, MATERIALS, SEC. 302-1 & METHODS, SEC. 408
 2. ALL 4" AND 6" THICK SIDEWALK SHALL BE REINFORCED WITH NO. 10/10, 6" BY 6" GALV. WIRE FABRIC
 3. SUB GRADE COMPACTED TO 95% DENSITY AASHTO T-99
 4. FOR CURB AND CURB & GUTTER REINFORCING DETAILS, SEE MISC. 35-85-22D
 5. FOR BRICK WALKWAY PATTERN AND DETAILS SEE LAND SCAPING DRAWINGS.

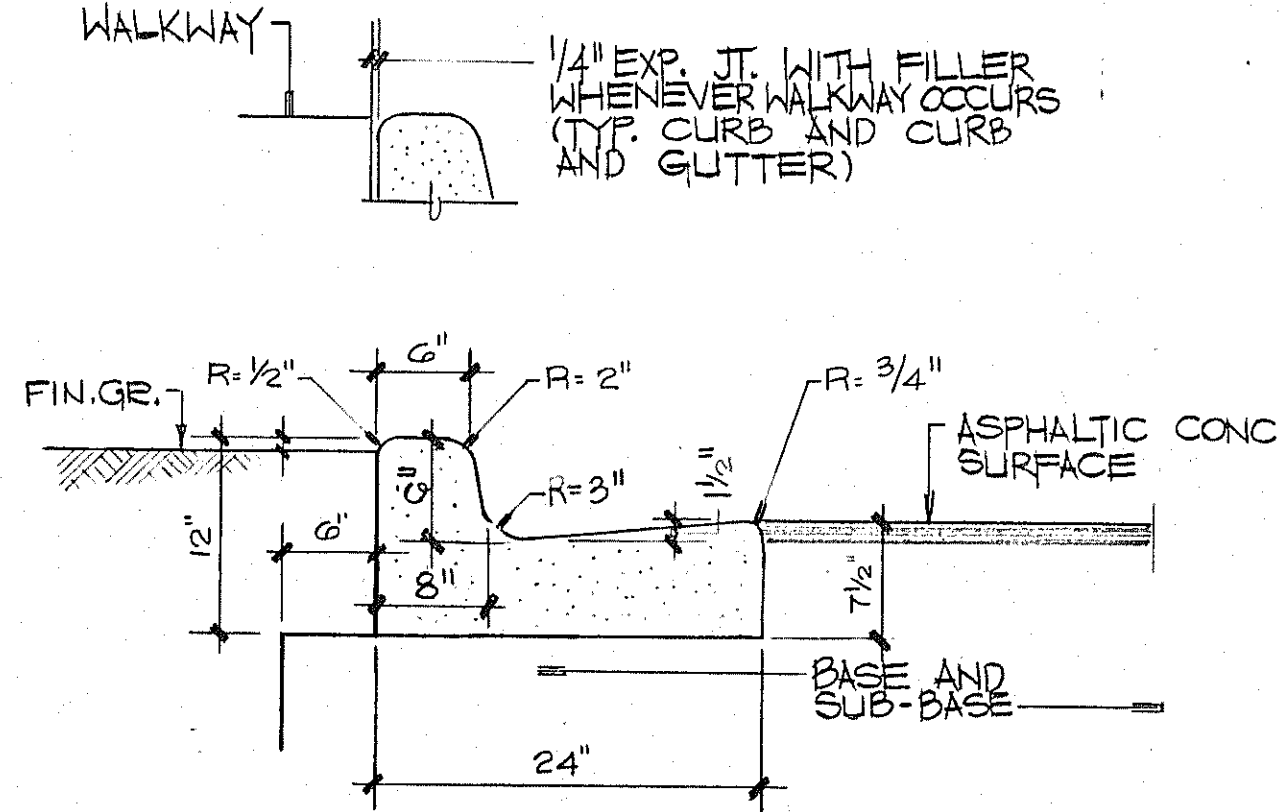
CONCRETE WALKWAY DETAIL
N.T.S.



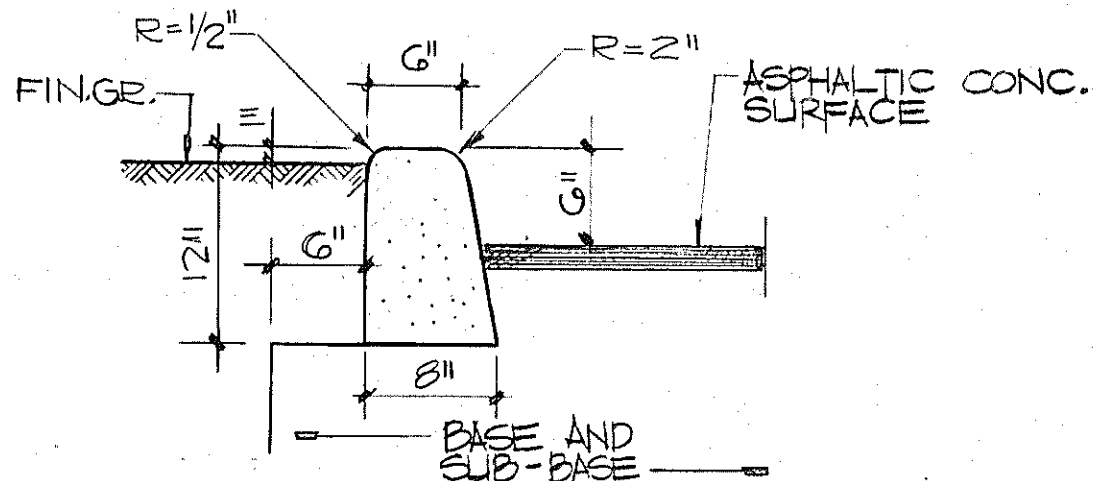
TYPICAL PAVEMENT DETAIL
N.T.S.

- NOTES:
1. COMPACTION DESIGN CRITERIA APPLIES TO BOTH CUTS & FILLS.
 2. FOR LIMITS OF PAVEMENT SEE LAYOUT PLANS ON CIVIL DRAWINGS.

TYPICAL PAVEMENT DETAIL
N.T.S.

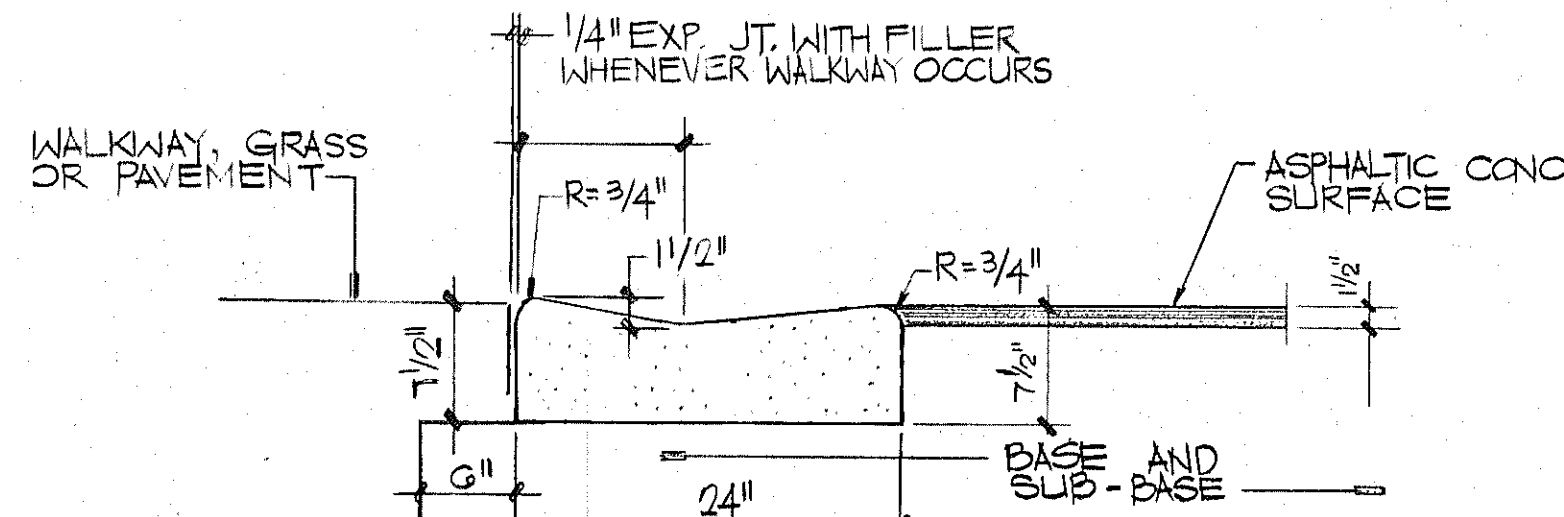


6" CONC. CURB & GUTTER DETAIL
N.T.S.

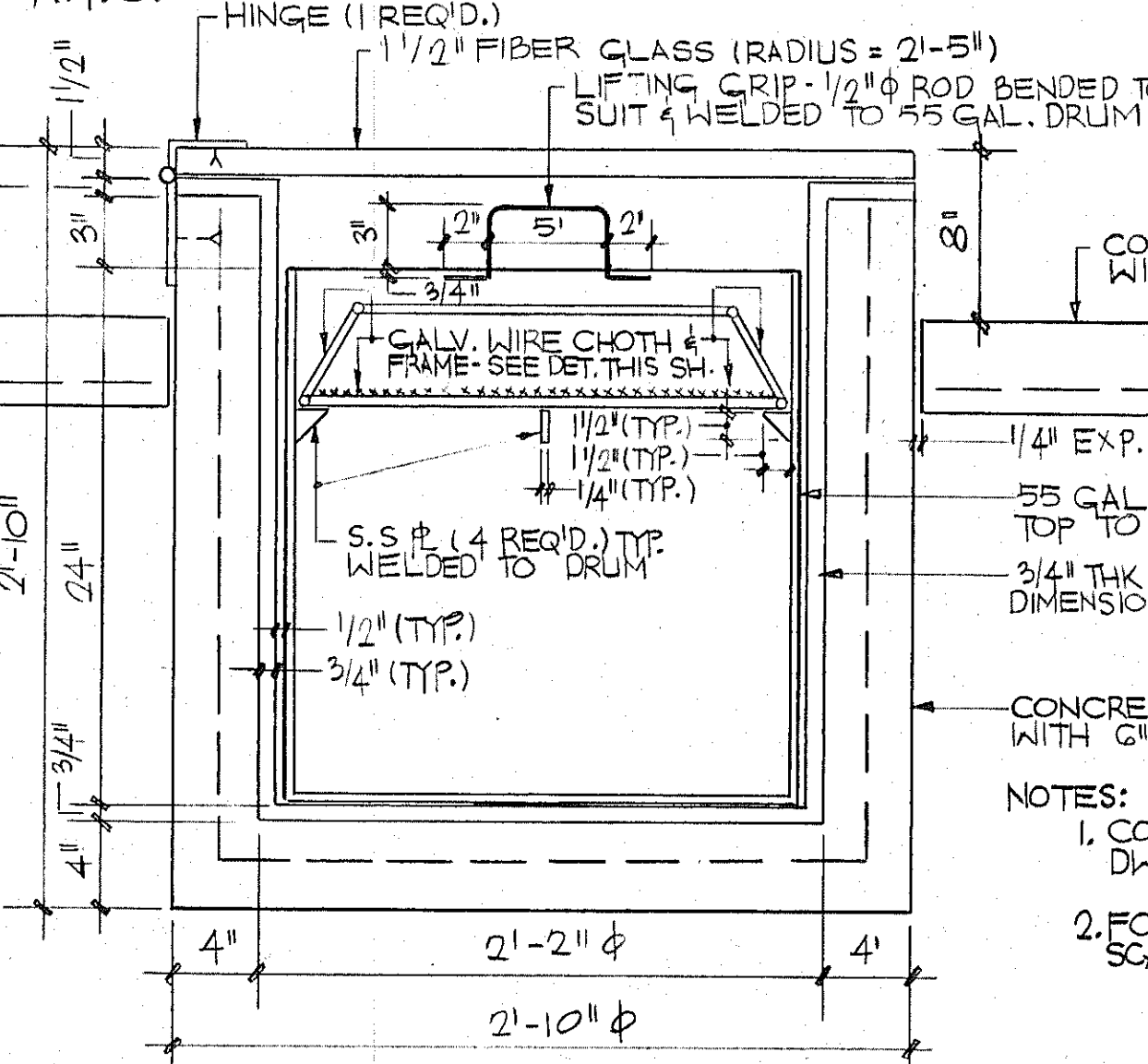


6" CONC. CURB DETAIL
N.T.S.

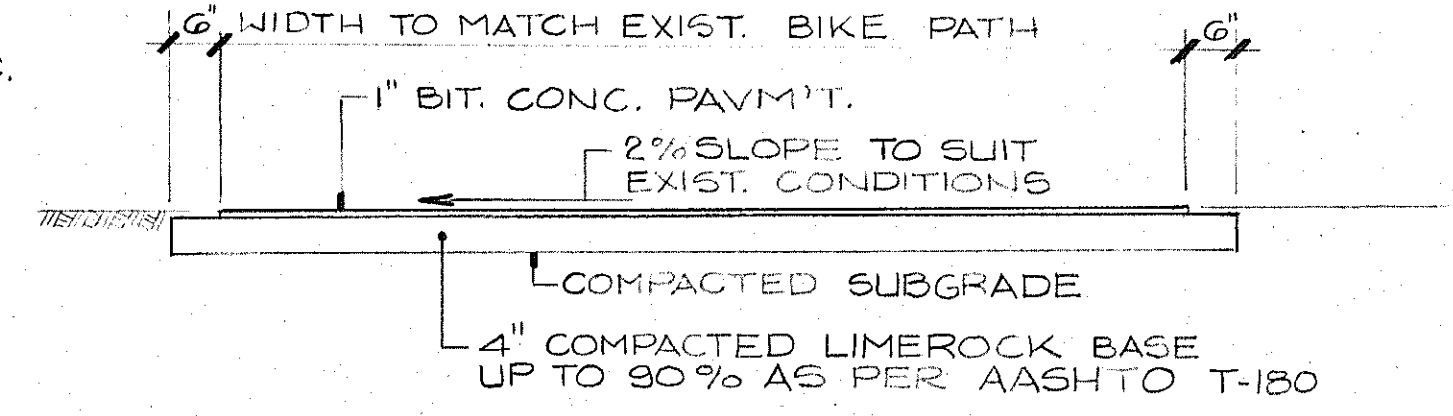
NOTE: SEE MODIFIED CONC. CURB (SLOTTED) DETAIL SH. NO. C-48.



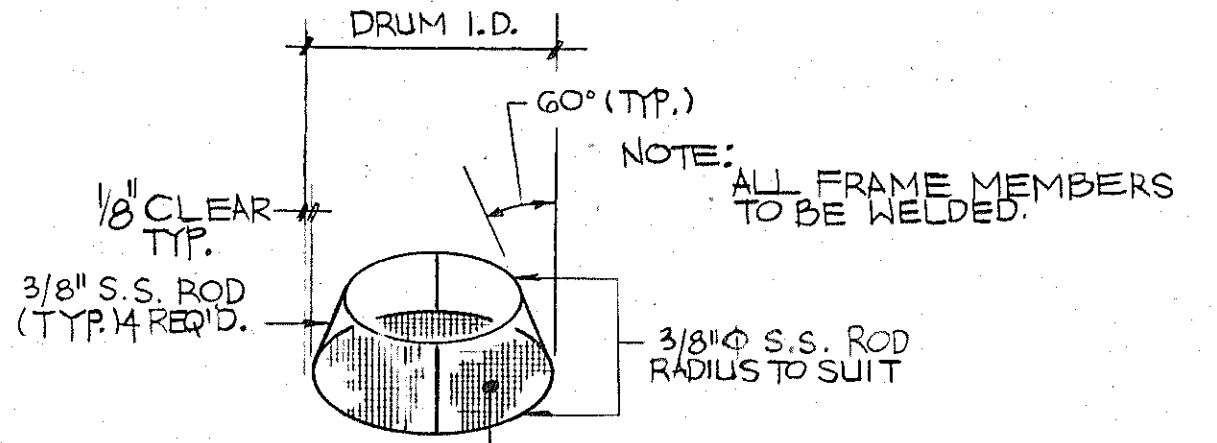
CONCRETE VALLEY GUTTER DETAIL
N.T.S.



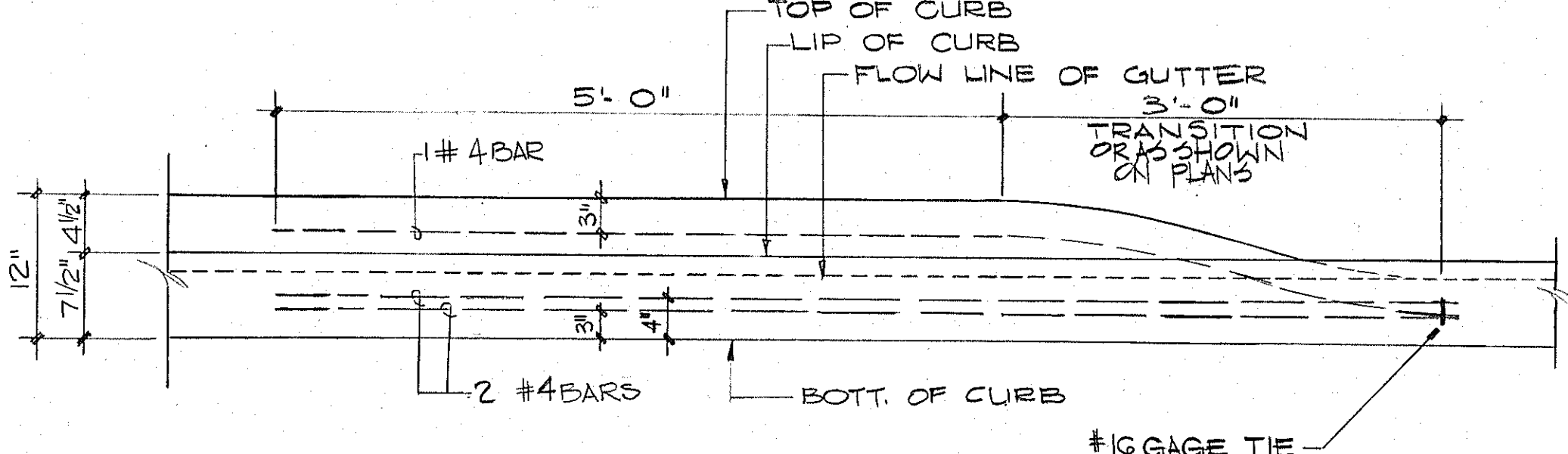
OIL-SUMP DETAIL
N.T.S.



RELOCATED BIKE PATH SECT. DETAIL
N.T.S.

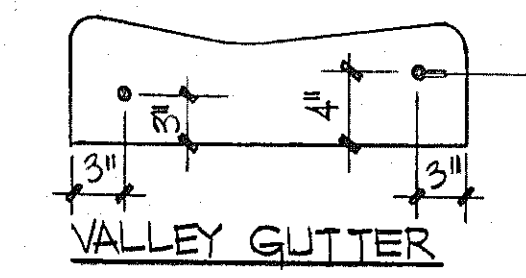
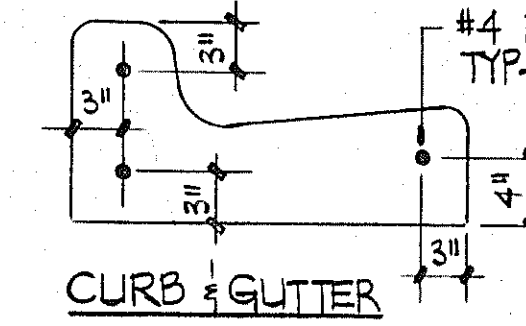
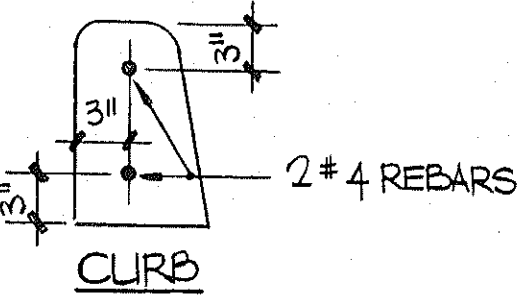


GALV. WIRE CLOTH & FRAME DETAILS
N.T.S.

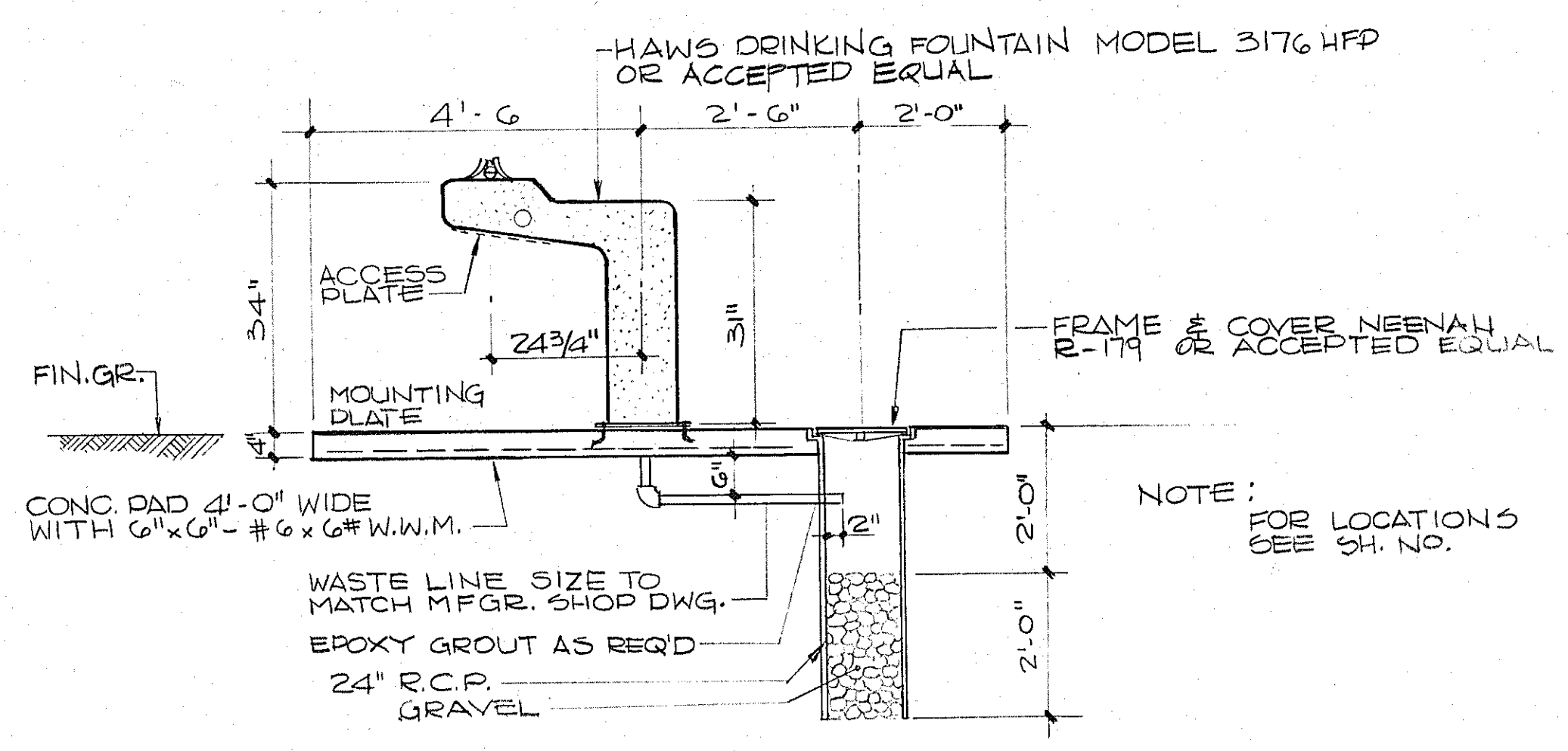


TYPICAL CURB OR CURB AND GUTTER REINFORCING DETAIL AT CORNERS RETURN AND TRANSITIONS

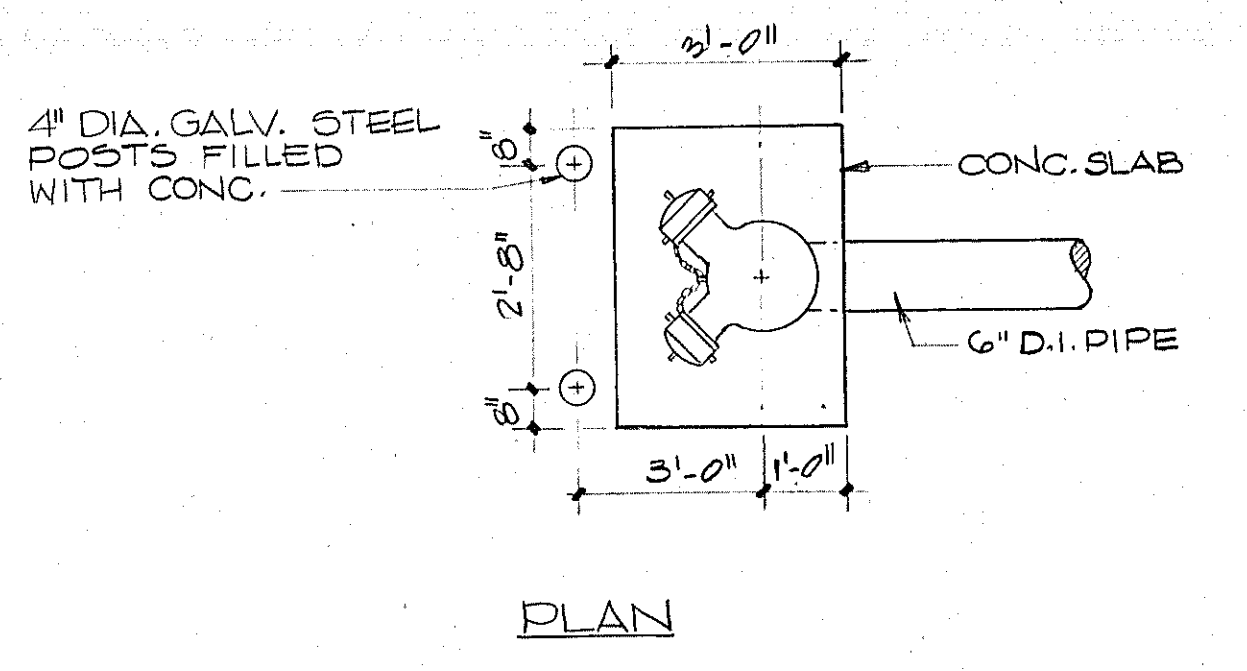
NOTE: TRANSITION LENGTH MAY VARY. SEE LAND SIDE GRADING PLANS (CIVIL DRAWINGS)



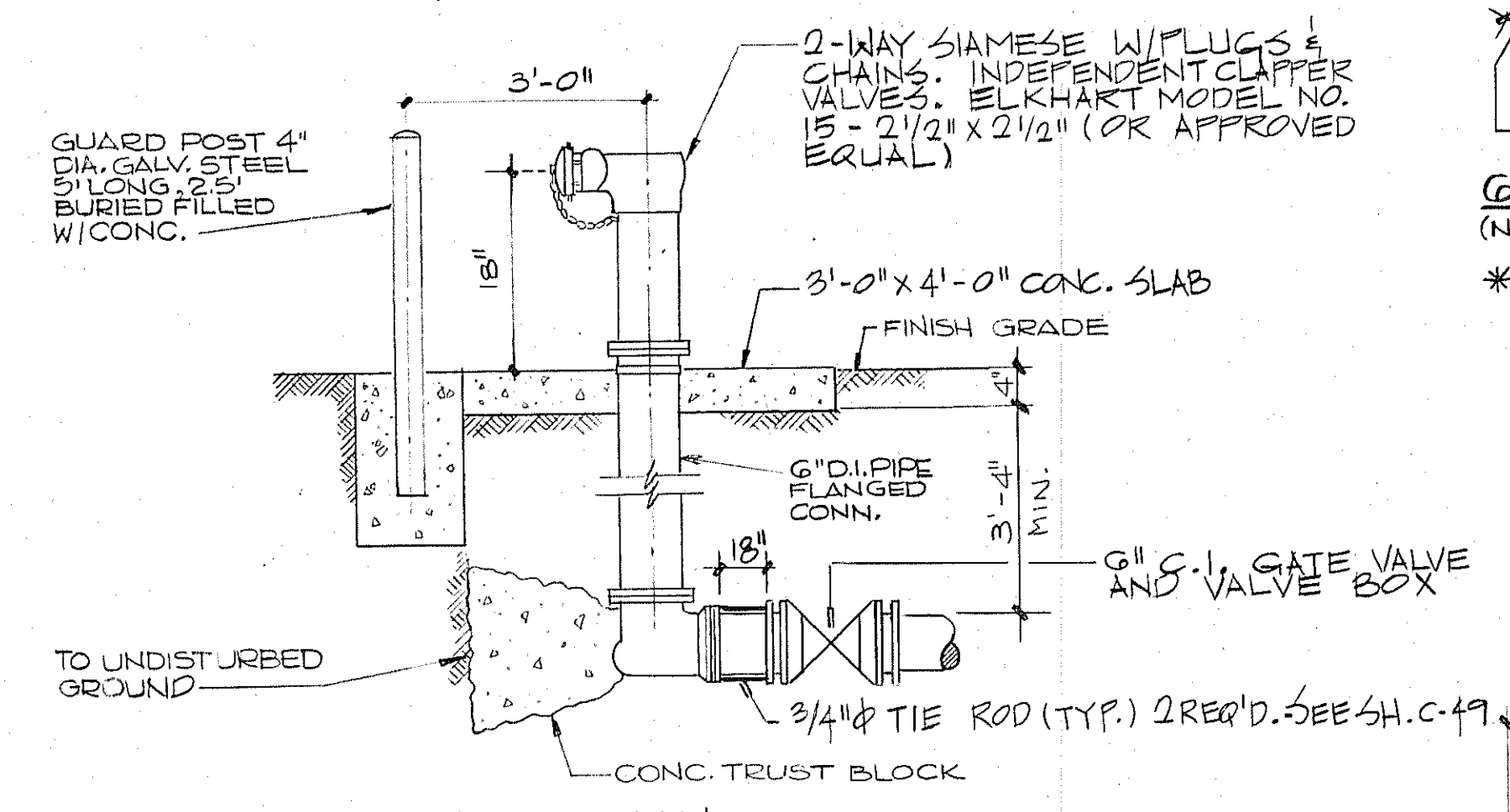
TYP. REINFORCING DETAILS
N.T.S.



DRINKING FOUNTAIN DETAIL
 N.T.S.

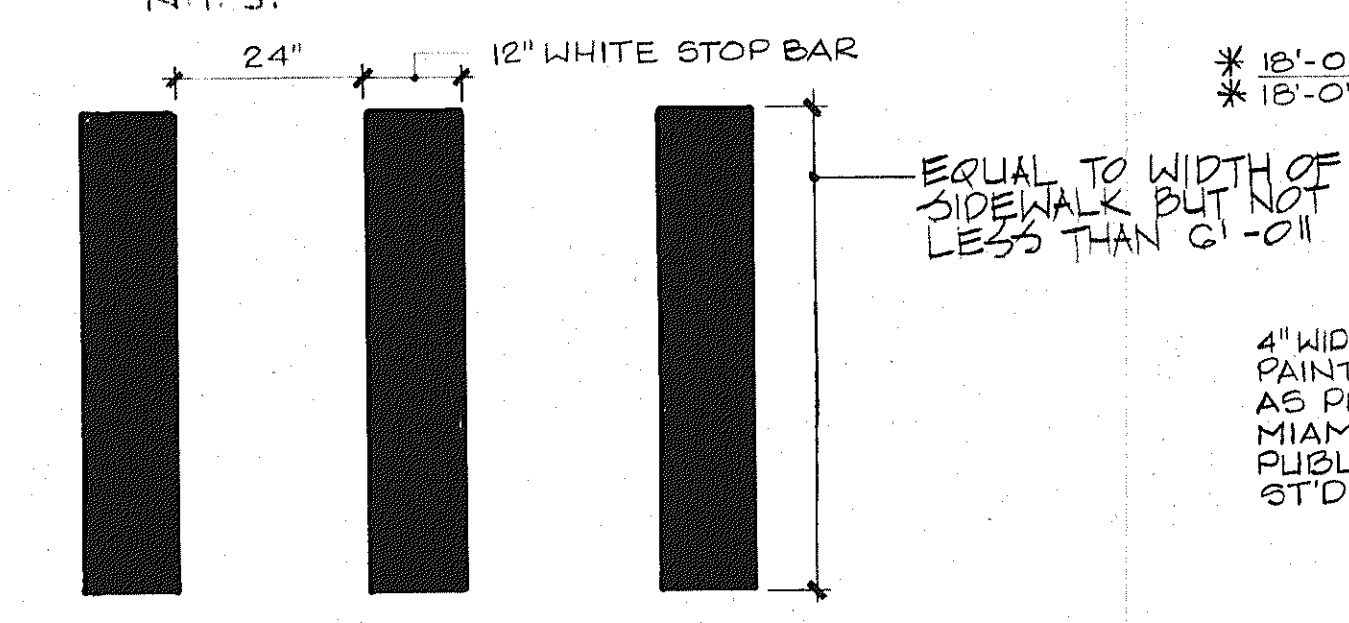


PLAN

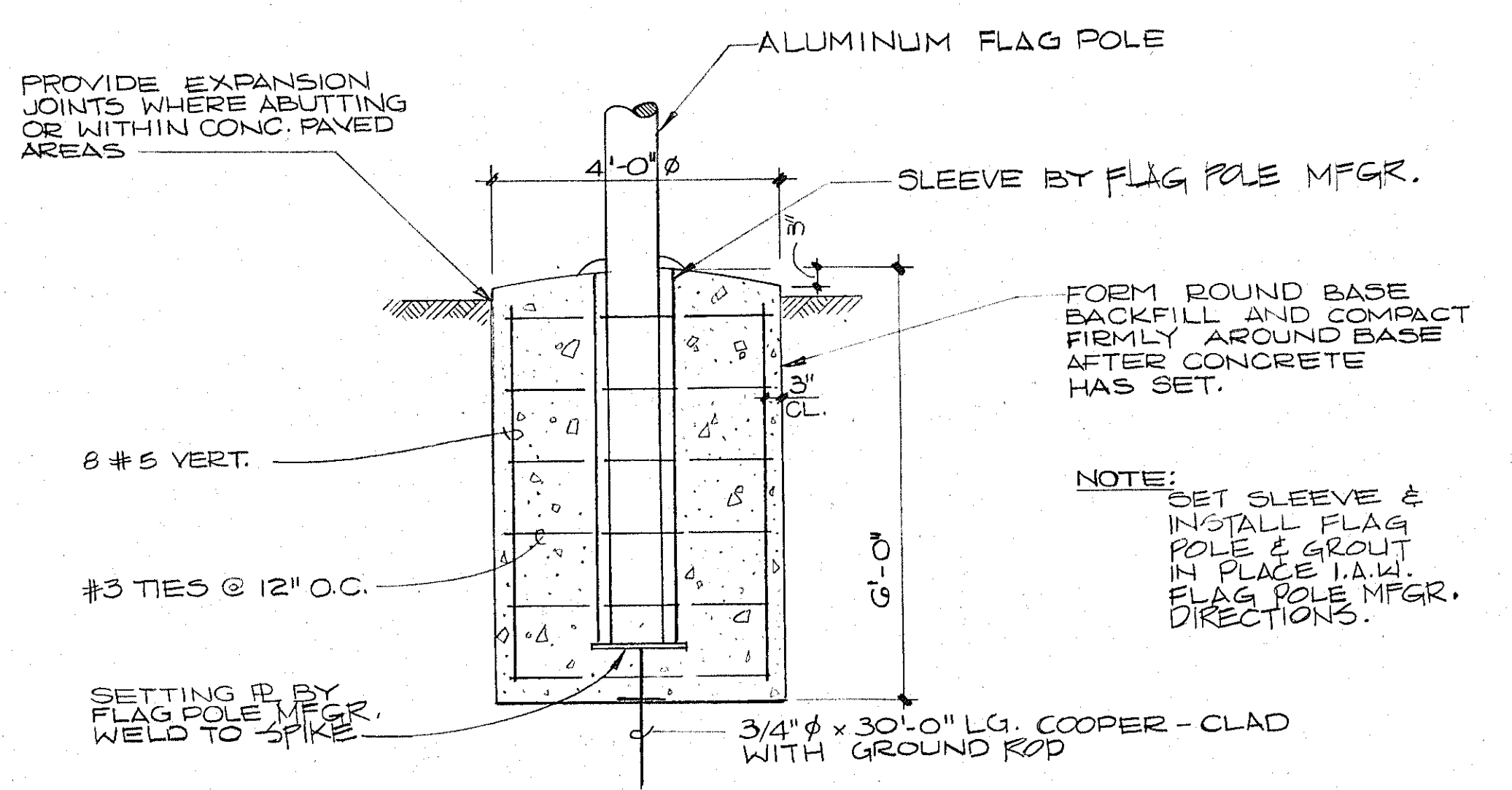


ELEVATION

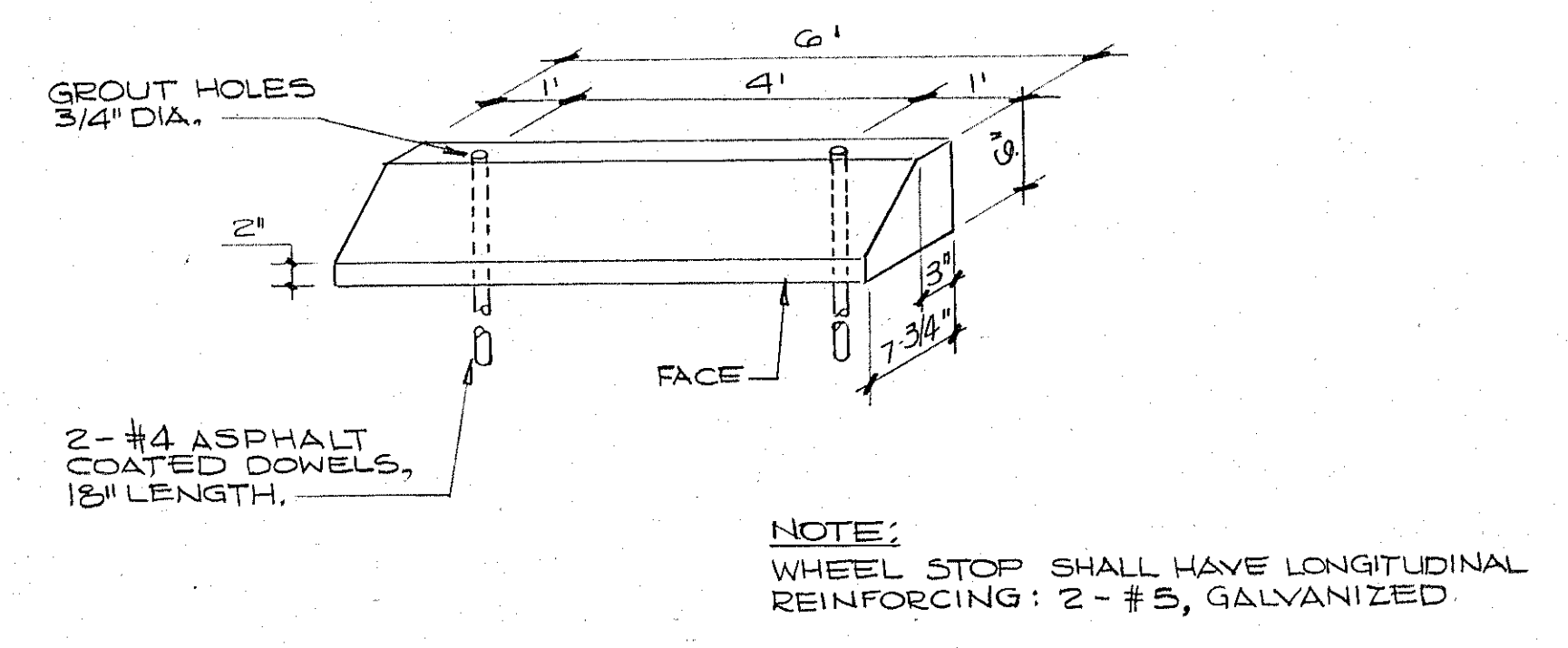
SIDEWALK SIAMESE INSTALLATION DETAIL
 N.T.S.



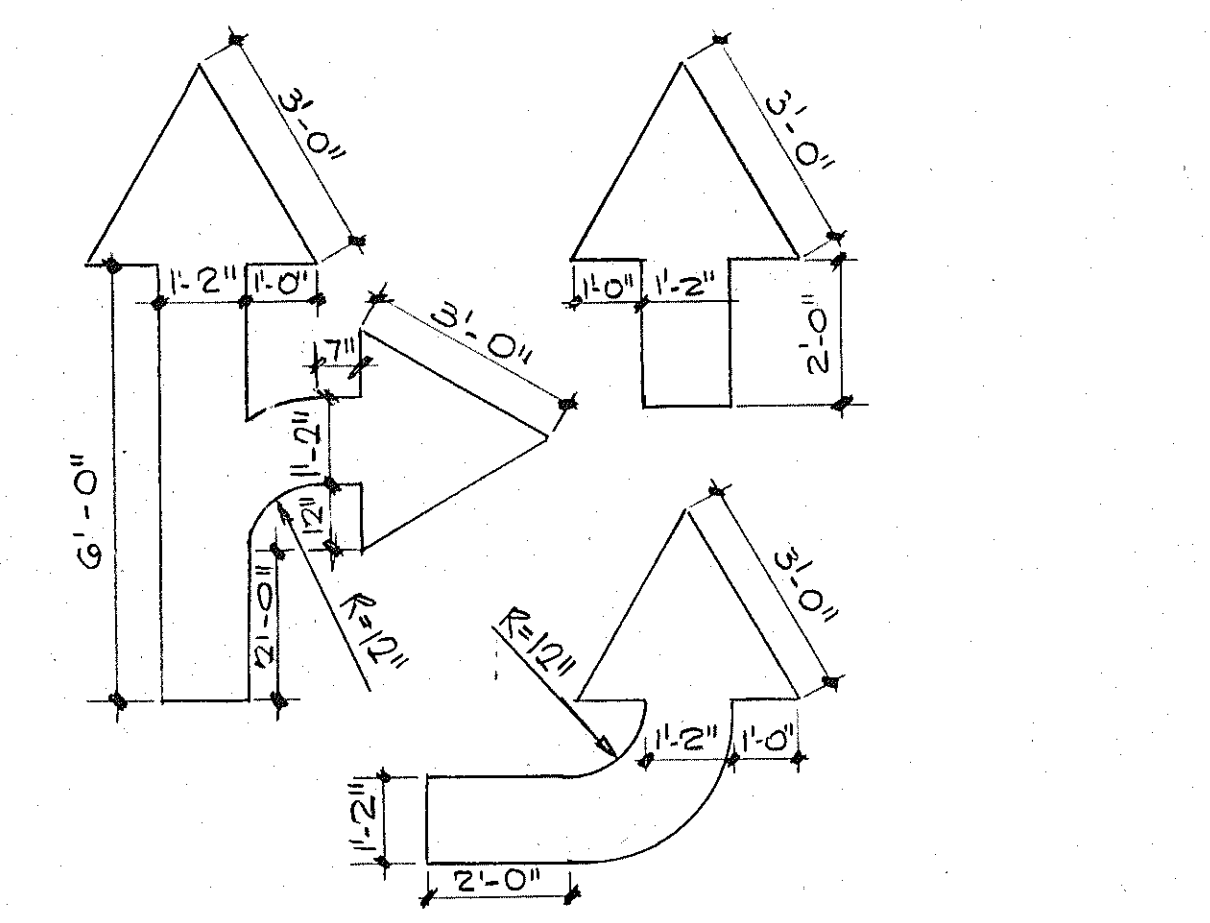
CROSS-WALK STRIPING
 N.T.S.



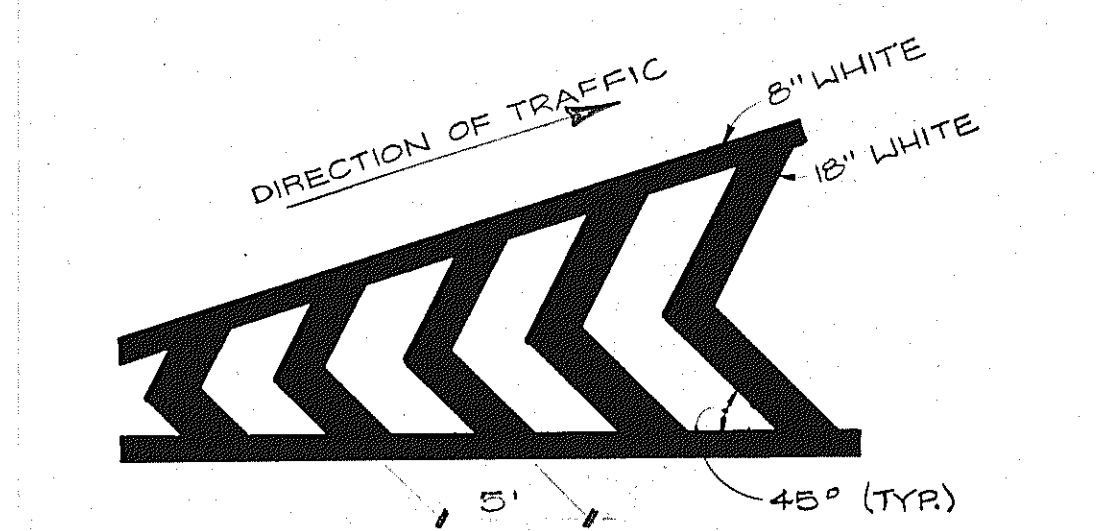
FLAG POLE BASE DETAIL
 N.T.S.



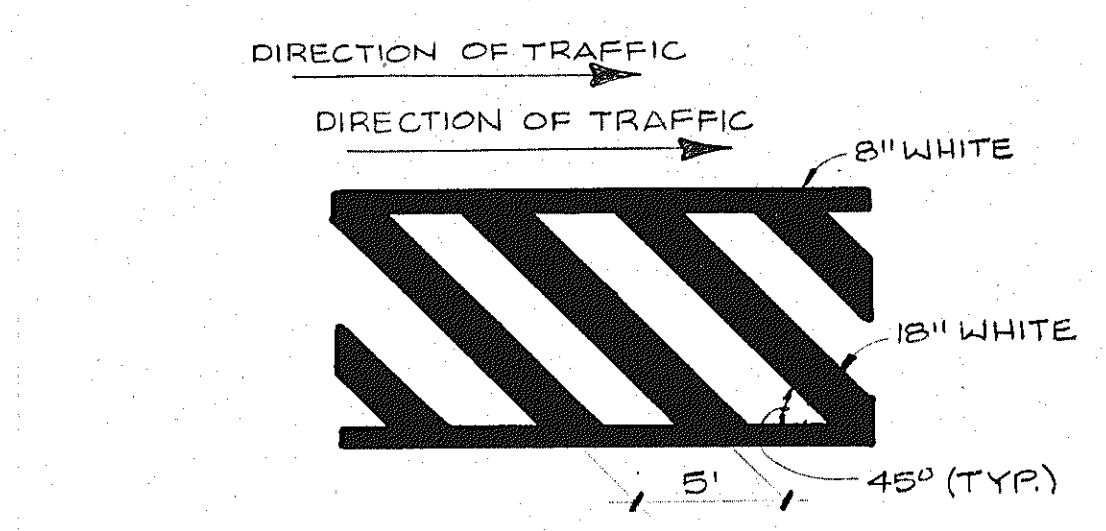
WHEEL STOP DETAIL
 N.T.S.



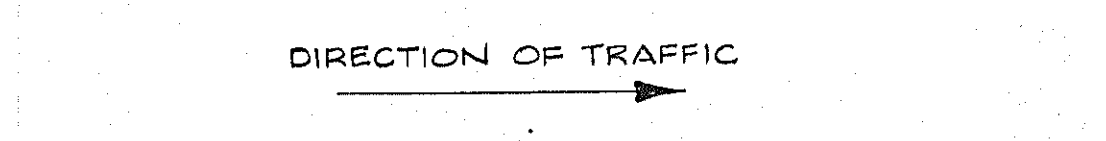
PAVEMENT TRAFFIC MARKINGS



CHANNELIZING LINE
 N.T.S.



EDGE LINE



SKIP LINE



DIVIDING LINE

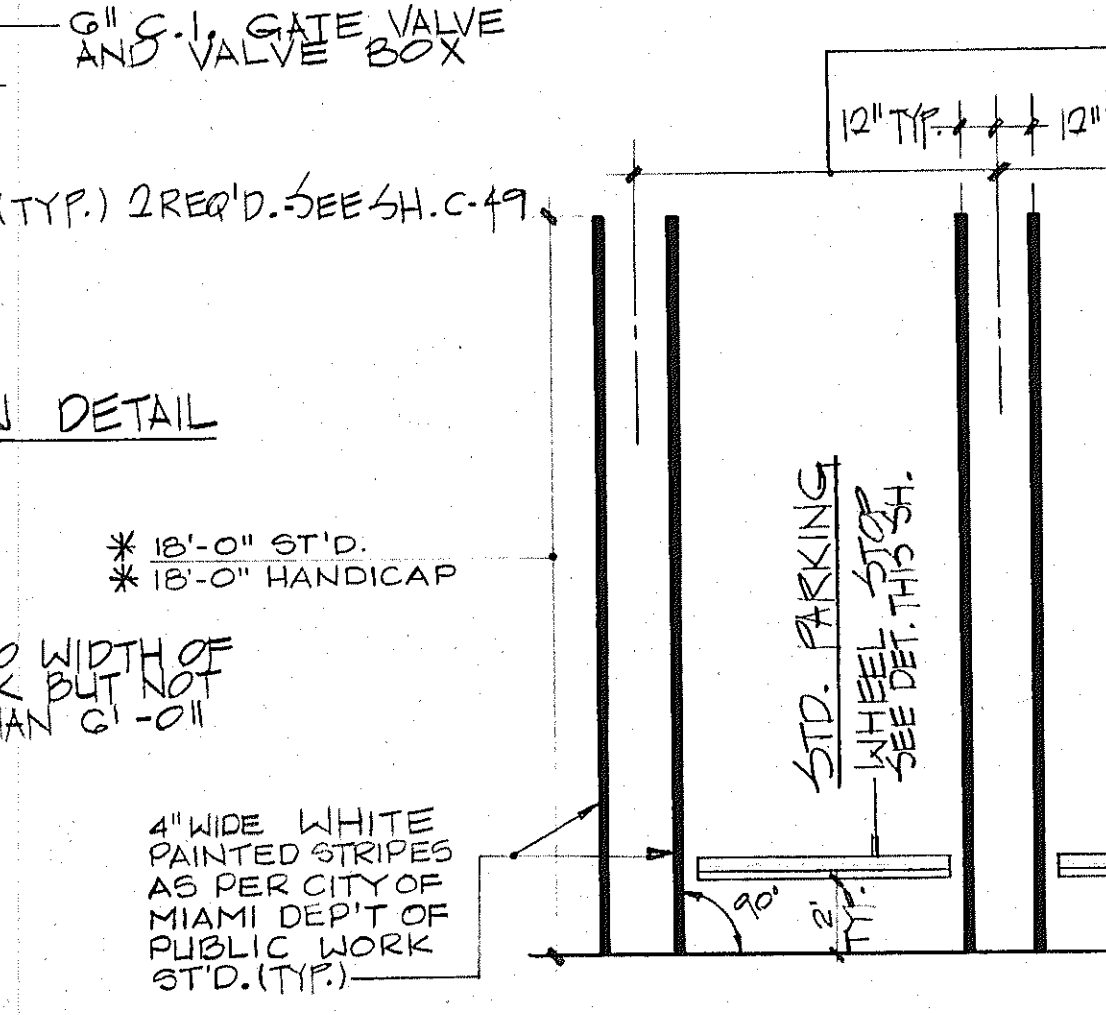


DOTTED LINE



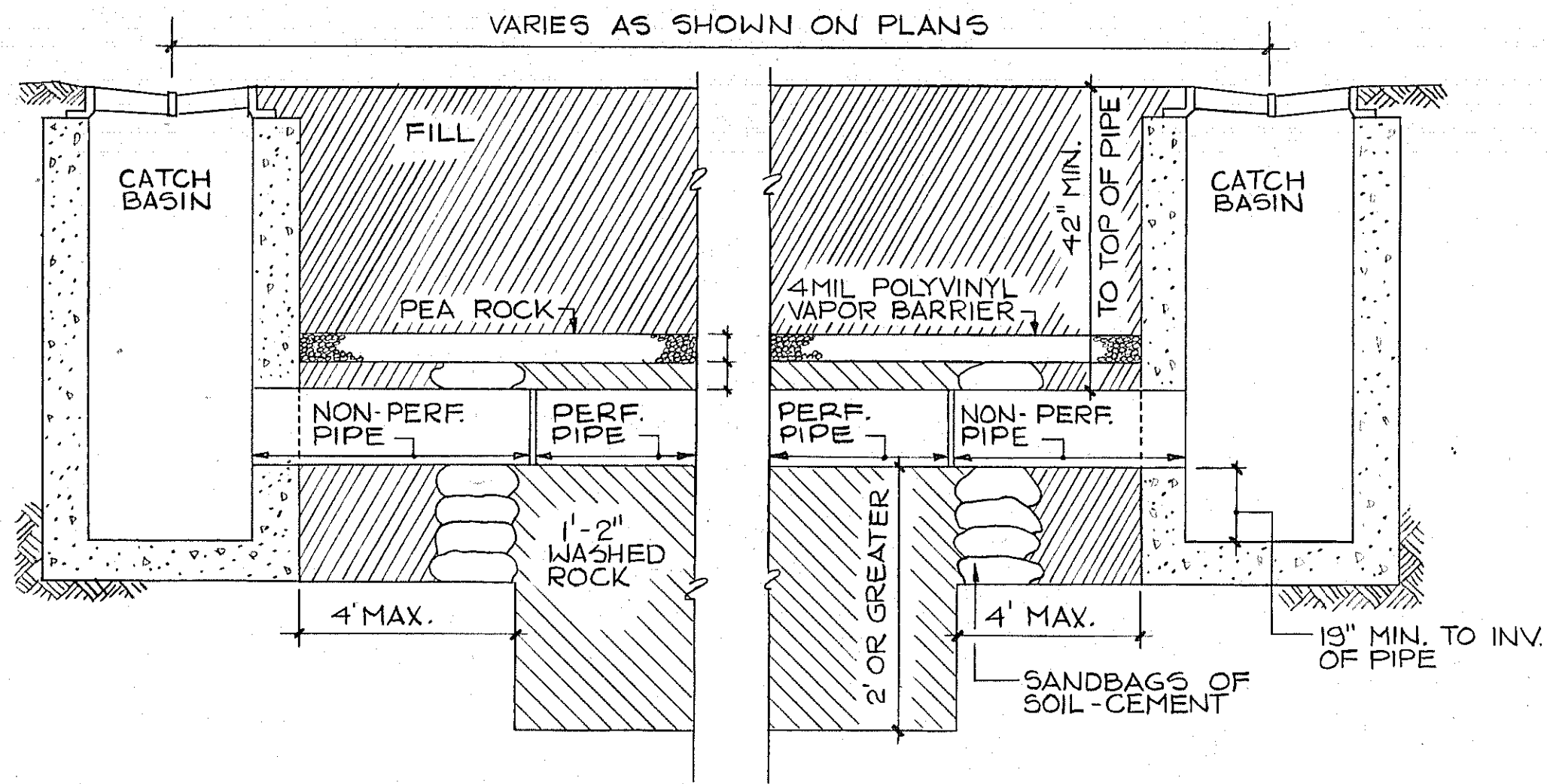
STOP BAR

60° PARKING STALL DETAIL
 N.T.S.

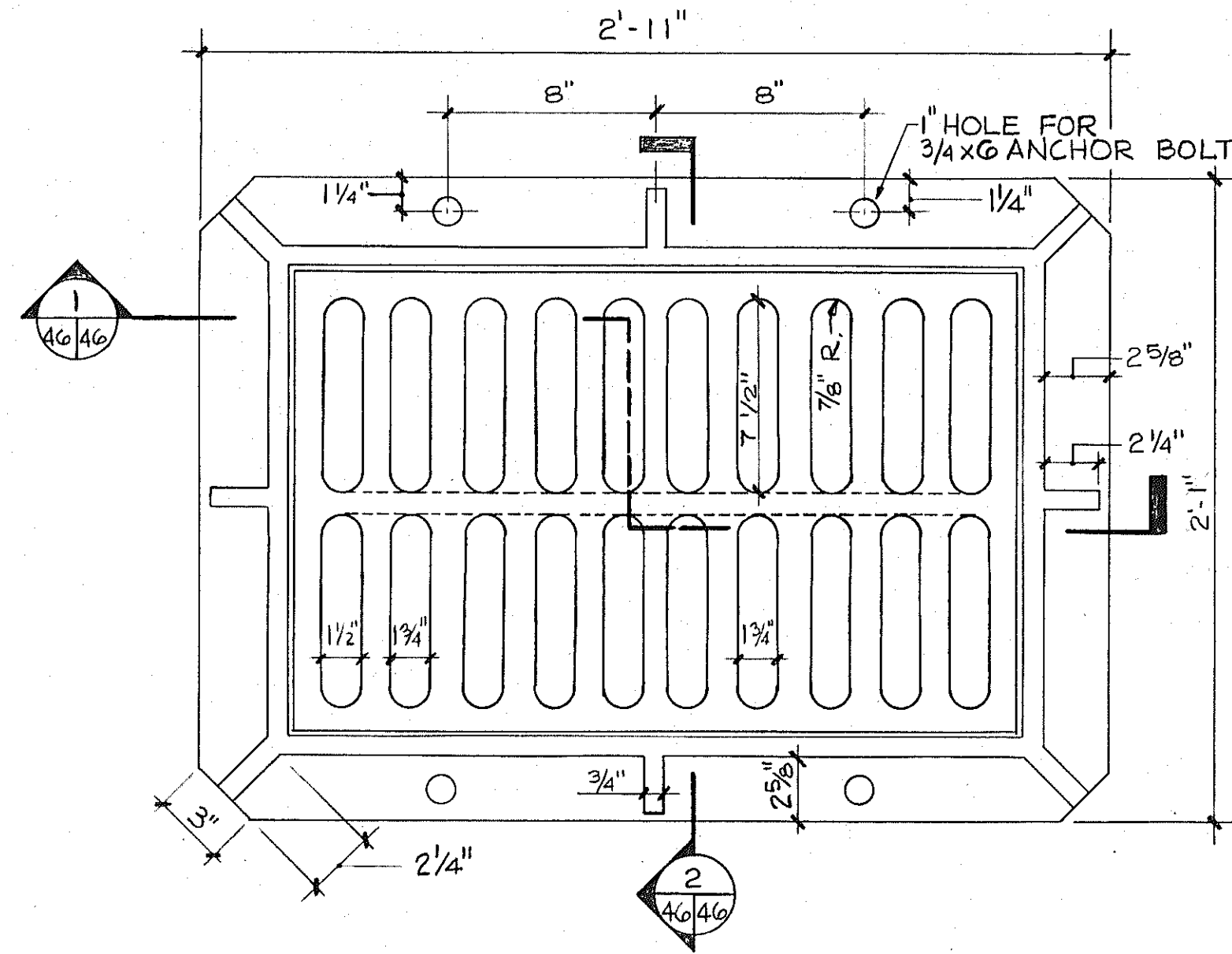


30° PARKING STALL DETAIL
 N.T.S.

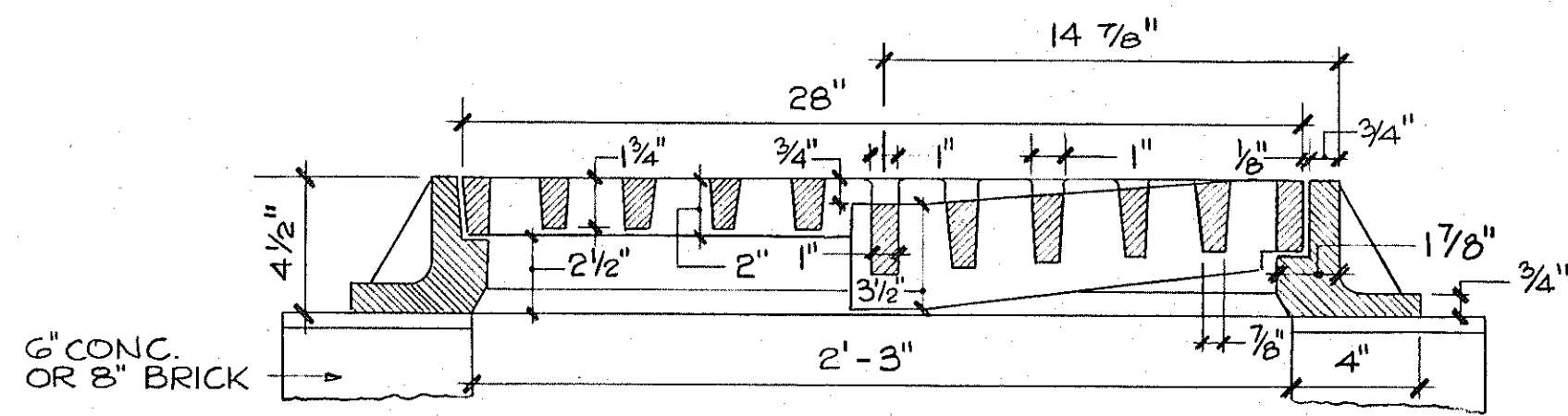
* 4" WIDE WHITE PAINTED STRIPES TO END AT VALLEY GUTTER WHENEVER THIS OCCURS (SEE LAND SIDE PAVEMENT MARKINGS)



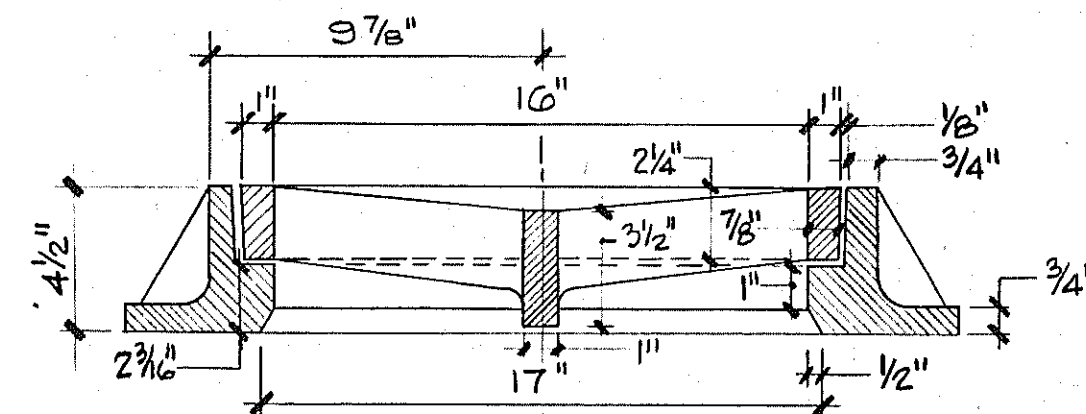
TYPICAL FRENCH DRAIN PROFILE
(N.T.S.)



PLAN
(N.T.S.)

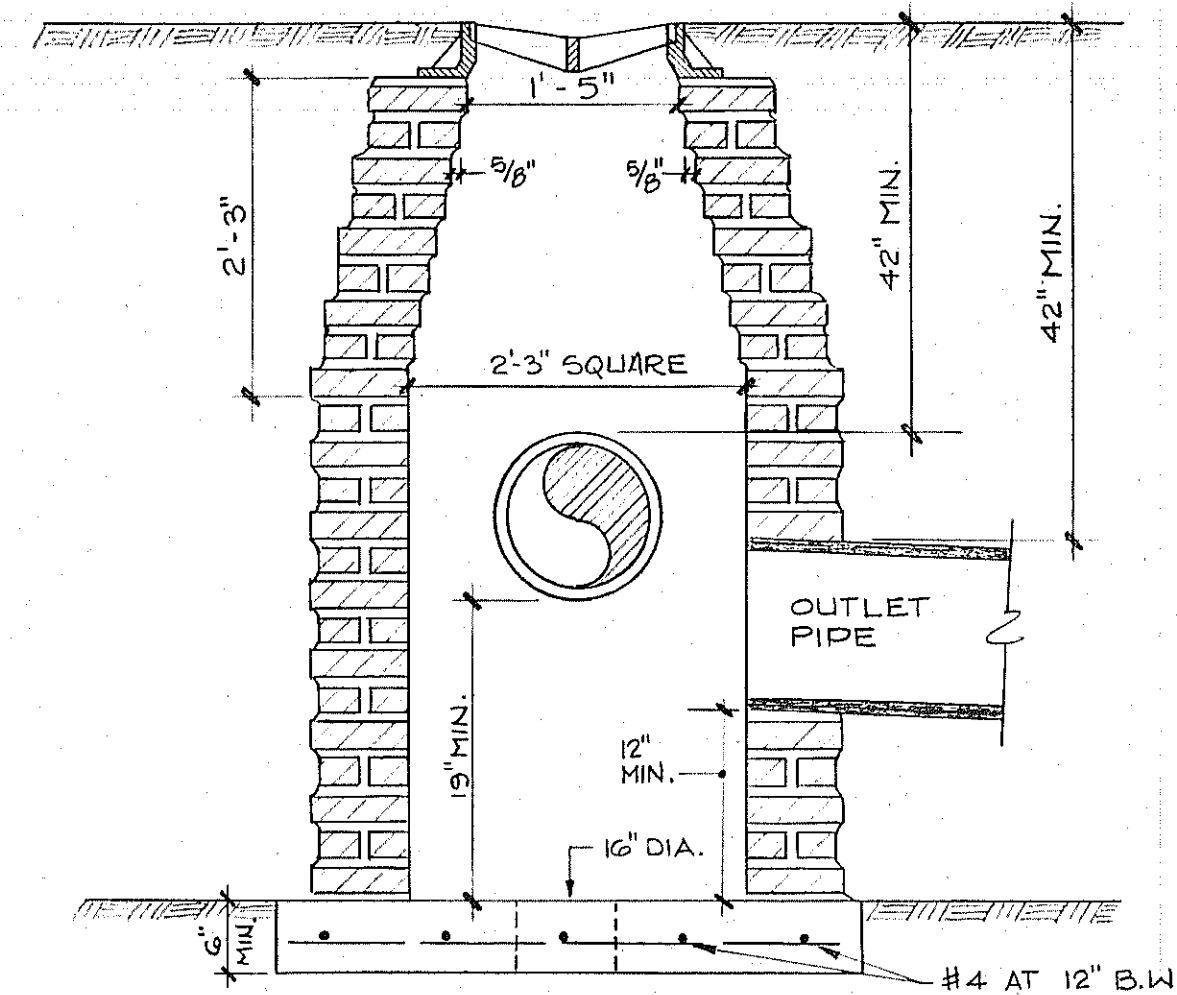


SECTION 1
(N.T.S.)



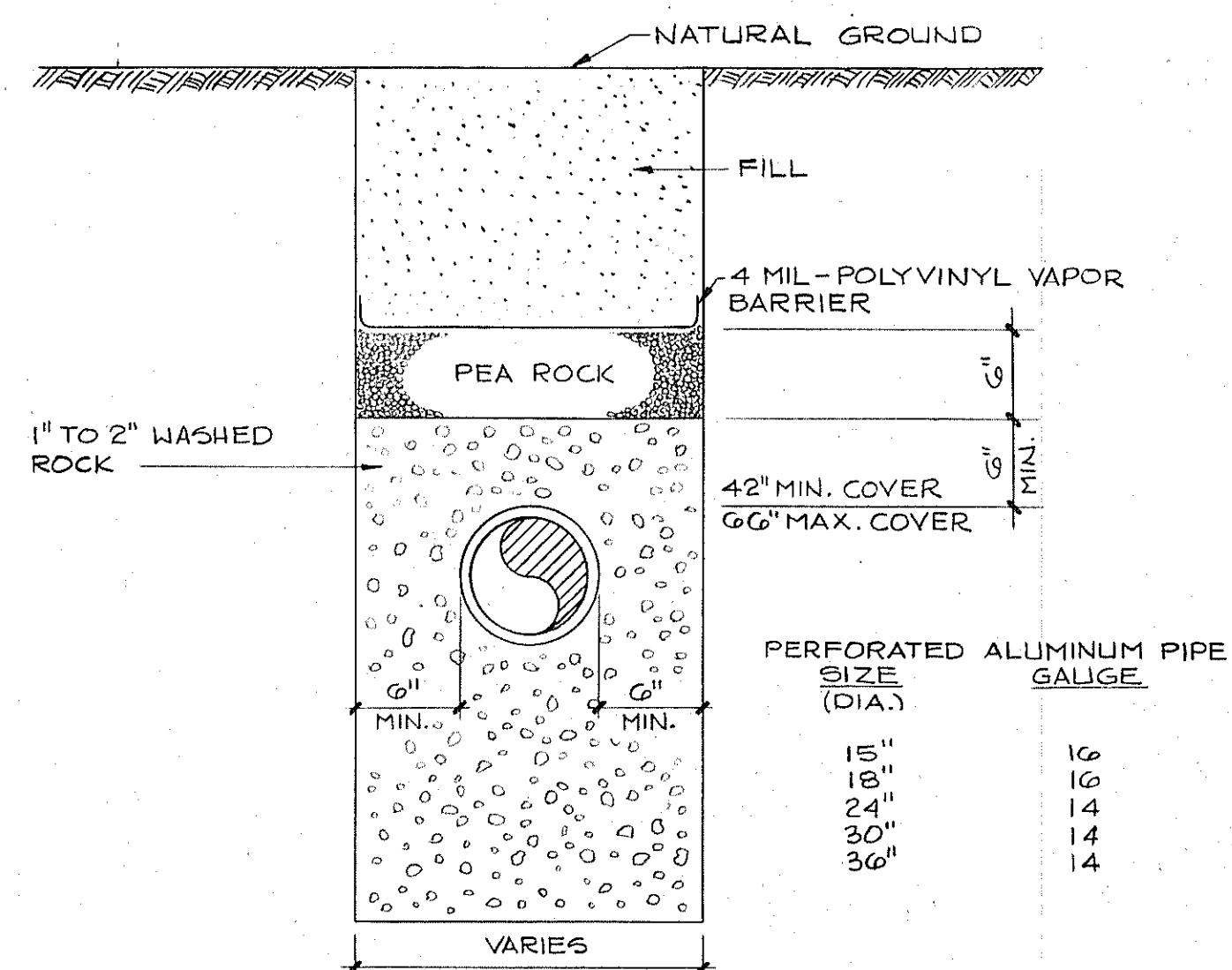
SECTION 2
(N.T.S.)

TYPICAL 'D' CATCH BASIN FRAME & COVER DETAIL



- NOTES:
- 1.- BRICK MASONRY TO BE PLASTERED INSIDE & OUTSIDE WITH 1/2" MORTAR.
 - 2.- BOTTOM SHALL BE 3000 P.S.I. CONC. WITH 16" Ø HOLE IN CENTER.
 - 3.- CATCH BASIN WALLS TO BE BATTERED ON TWO SIDES ONLY (AS SHOWN)

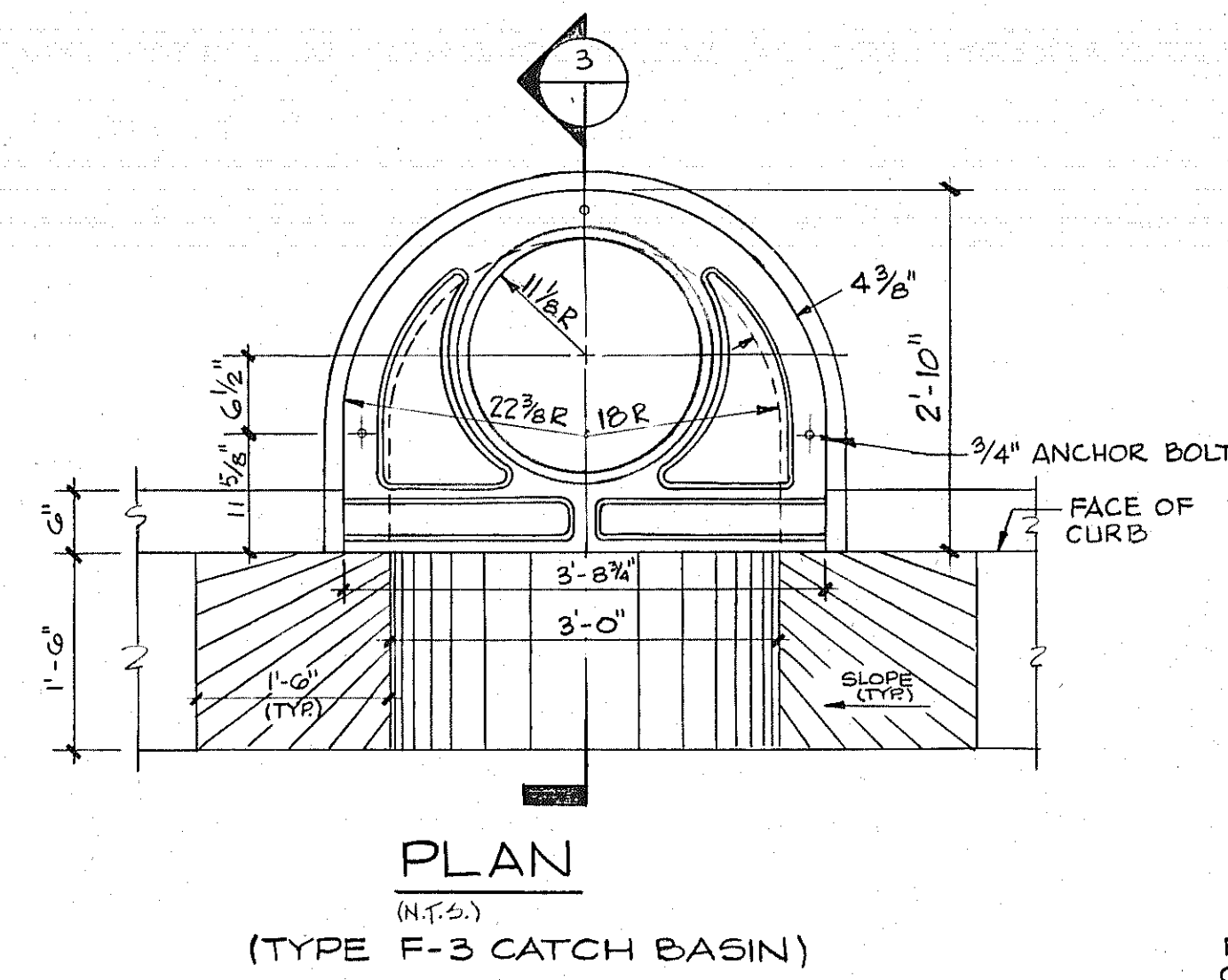
TYPE "D" CATCH BASIN
(N.T.S.)



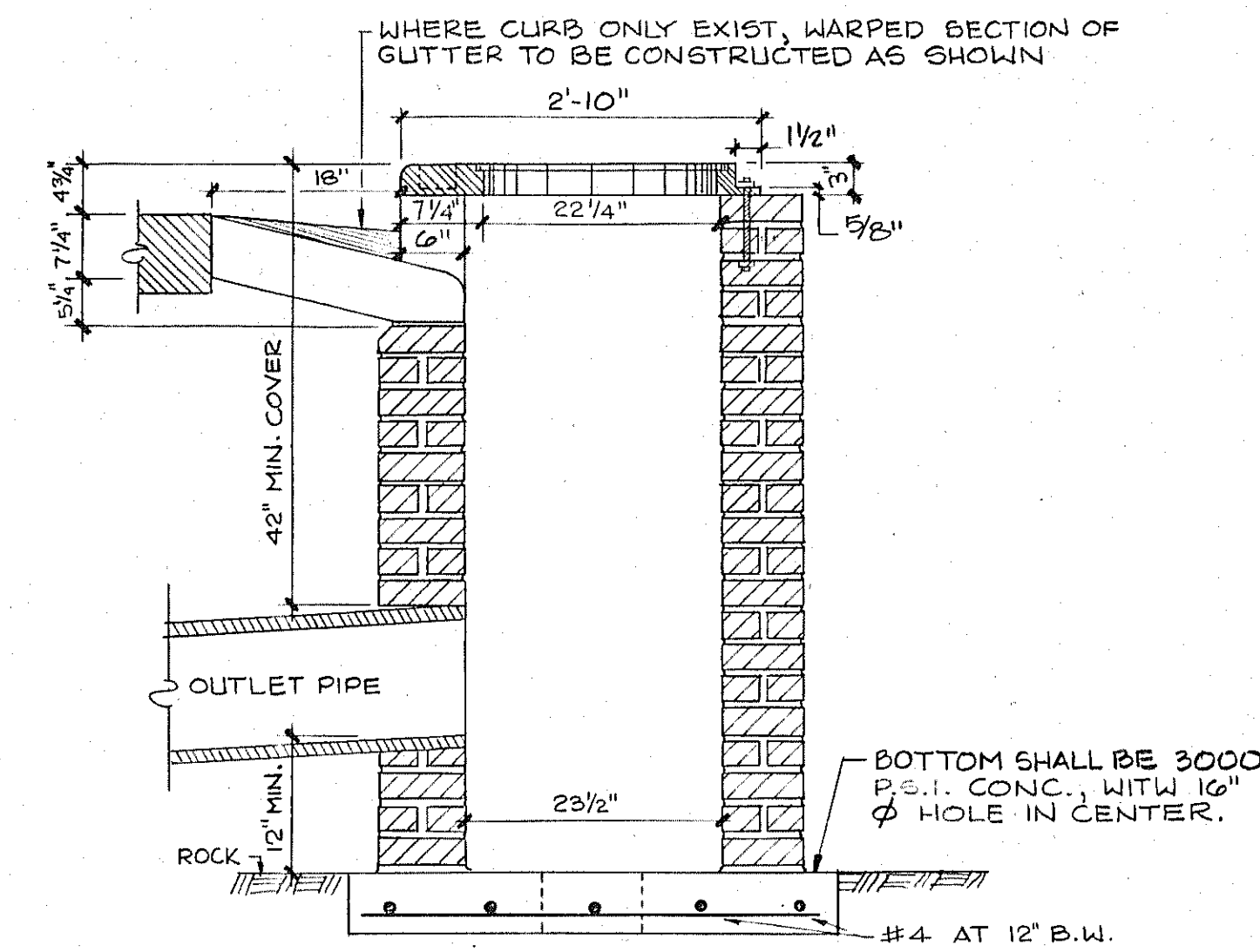
- NOTES:
- 1.- 42" MIN. COVER OVER PIPE UNLESS OTHERWISE SHOWN ON PLANS.
 - 2.- BOTTOM OF TRENCH TO BE EXCAVATED TO A MIN. ELEV. OF 0.00 CITY OF MIAMI DATUM. WASHED ROCK TO EXTEND A MIN. OF 24" BELOW INVERT OF PIPE.

TYPICAL FRENCH DRAIN CROSS SECTION
(N.T.S.)

NOTE: ALL DRAINAGE DETAILS IN THIS SHEET TO BE PER ENGINEERING STANDARDS FOR DESIGN & CONSTRUCTION (DEPARTMENT OF PUBLIC WORK-CITY OF MIAMI, FLORIDA)

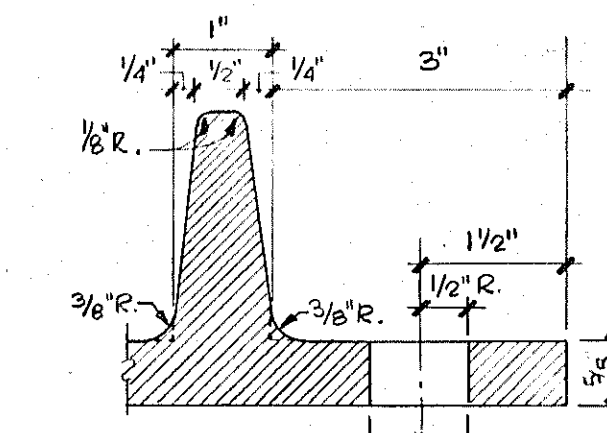


PLAN
(N.T.S.)
(TYPE F-3 CATCH BASIN)

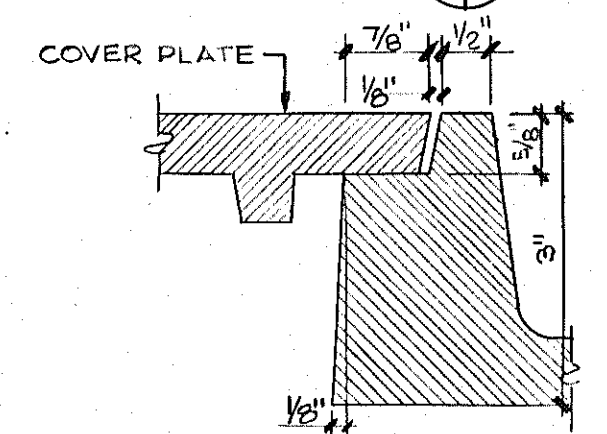


- NOTES:
- 1.- FILL BETWEEN RIBS WITH 1:2 CEMENT MORTAR AND FINISH SURFACE IN ACCORDANCE WITH CITY STANDARD SPEC'S FOR CEMENT SIDEWALKS.
 - 2.- WHERE CURB ONLY EXISTS, WARPED SECTION OF GUTTER TO BE CONSTRUCTED AS SHOWN.
 - 3.- PLATE TO BE SET TO CONFORM WITH SLOPE AT SIDEWALK OR AS DIRECTED BY THE ENGINEER.
 - 4.- GROUT TO BE USED FOR LEVELING WHEN NECESSARY.
 - 5.- CATCH BASIN WALLS TO BE 6" BRICK MASONRY OR 6" - 3000 P.S.I. CONCRETE.
 - 6.- BRICK MASONRY TO BE PLASTERED INSIDE & OUTSIDE WITH 1/2" MORTAR.

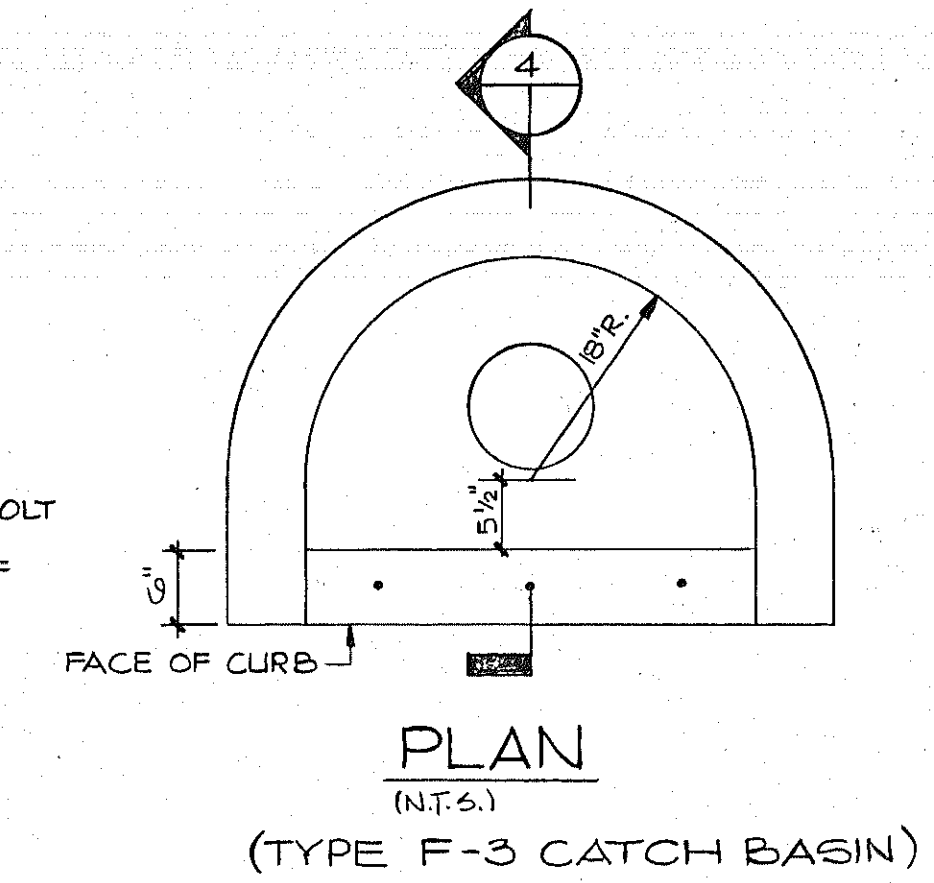
SECTION 3
(N.T.S.)



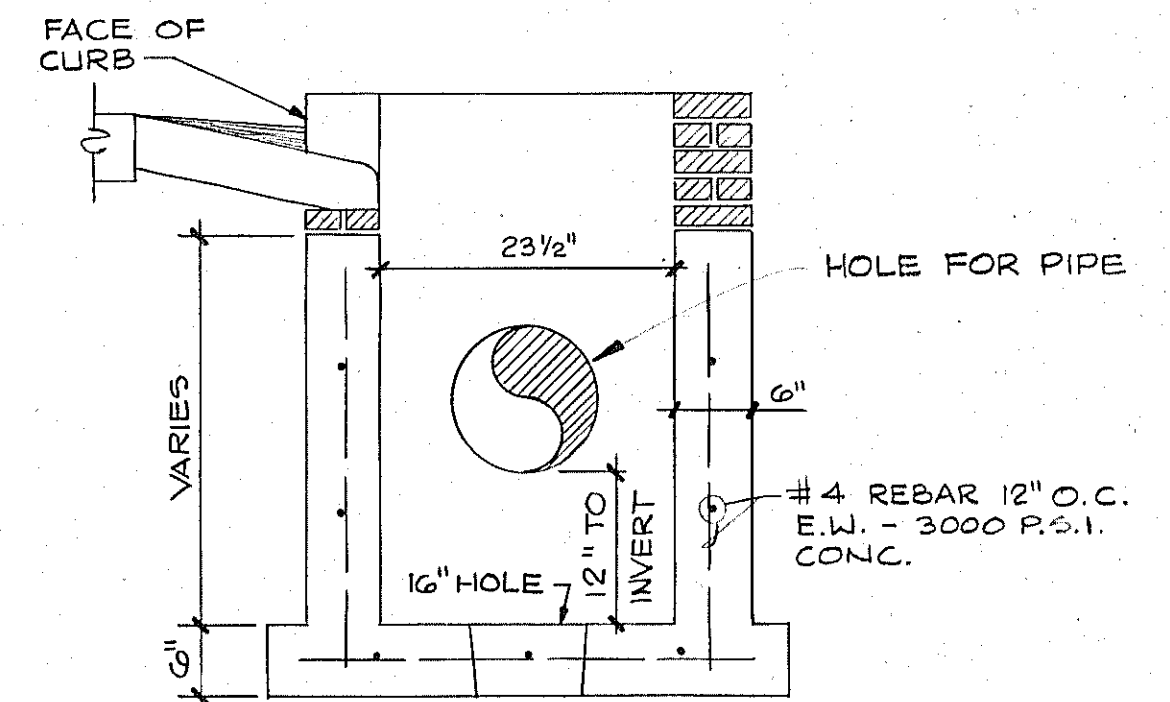
SECTION 4
(N.T.S.)



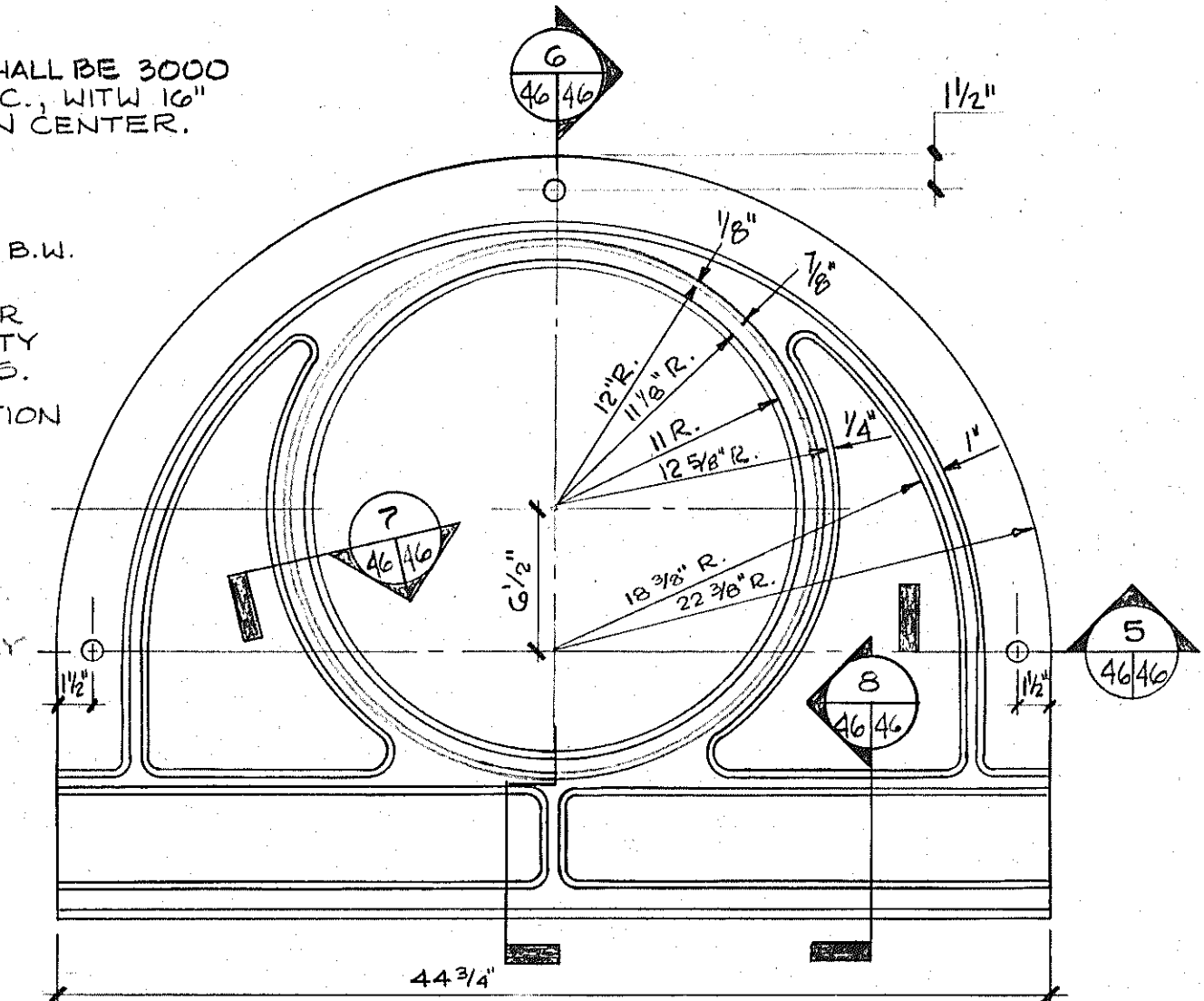
SECTION 5
(N.T.S.)



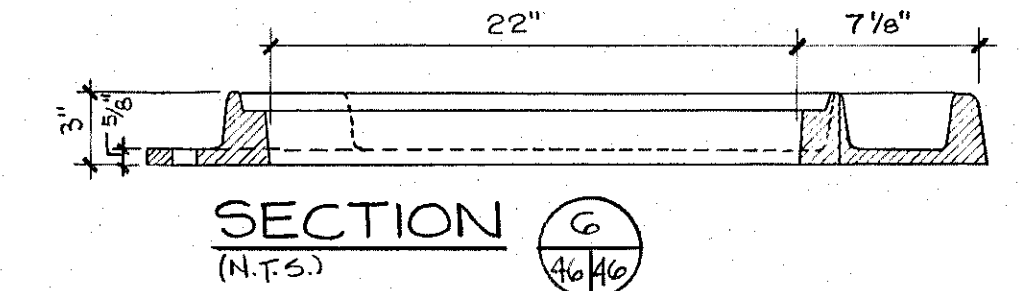
PLAN
(N.T.S.)
(TYPE F-3 CATCH BASIN)



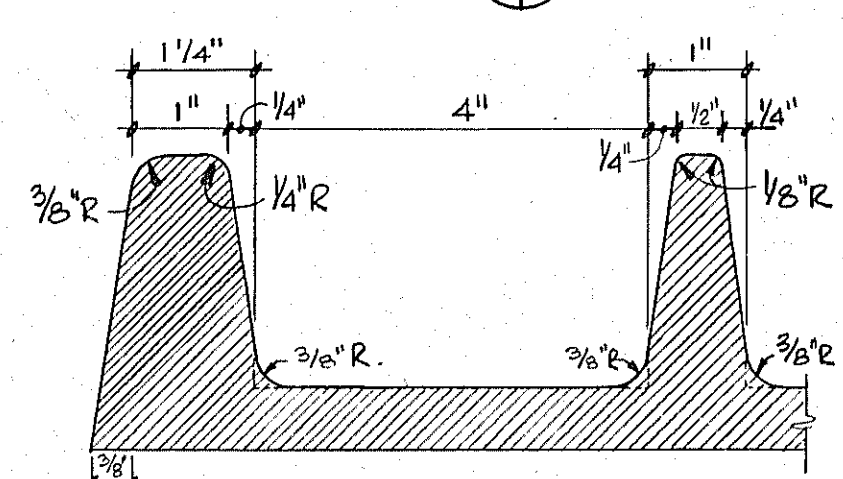
SECTION 6
(N.T.S.)



PLAN
(N.T.S.)
(TYPE F-3 CATCH BASIN)



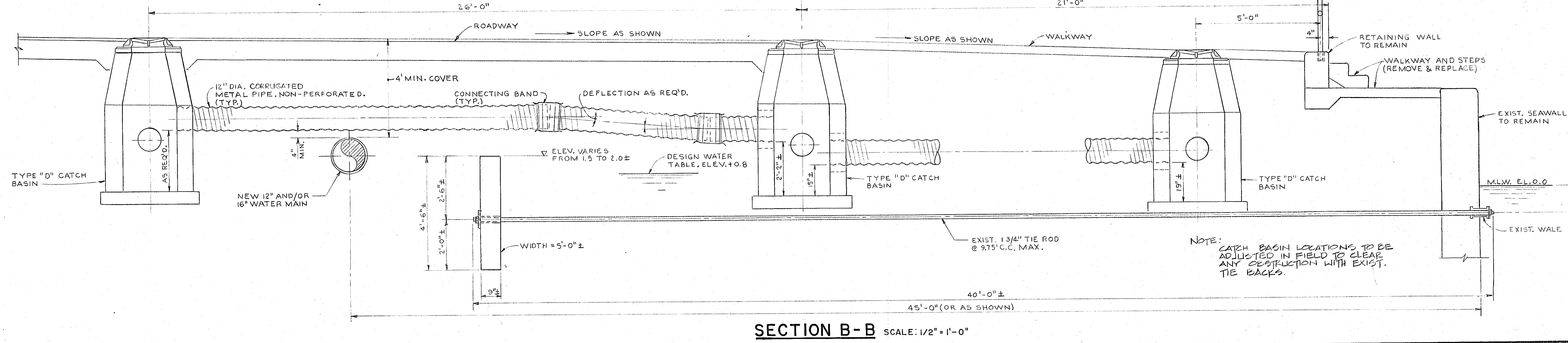
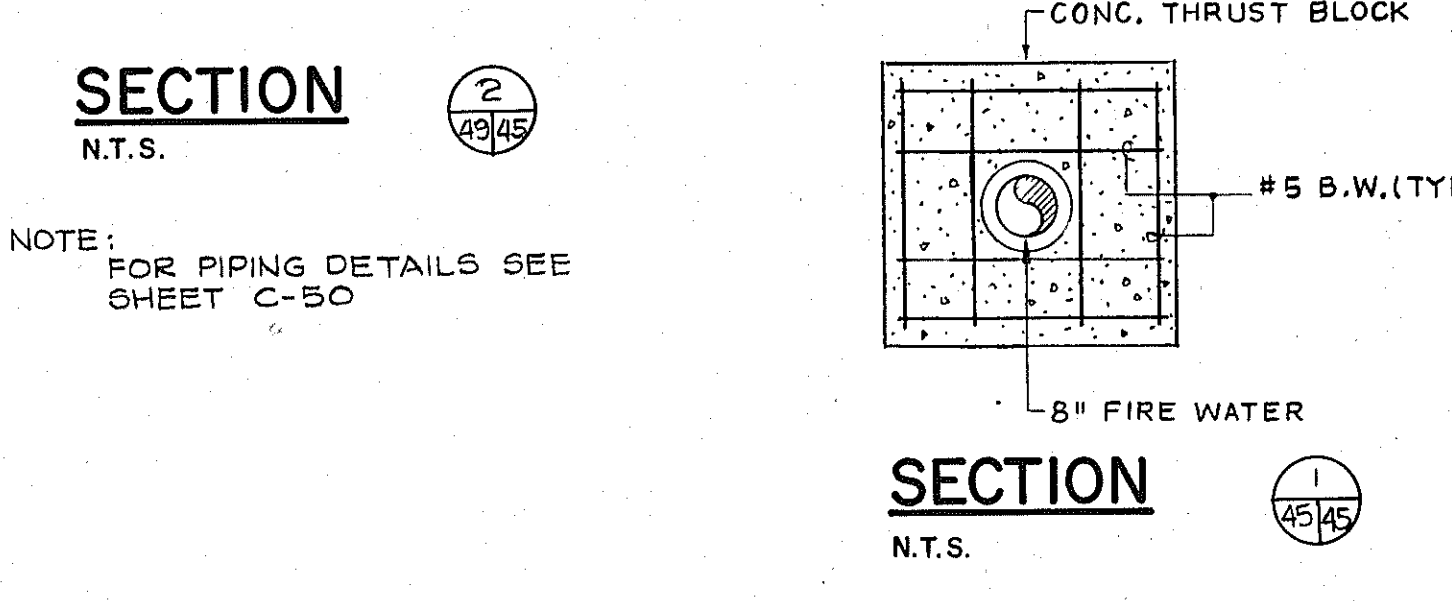
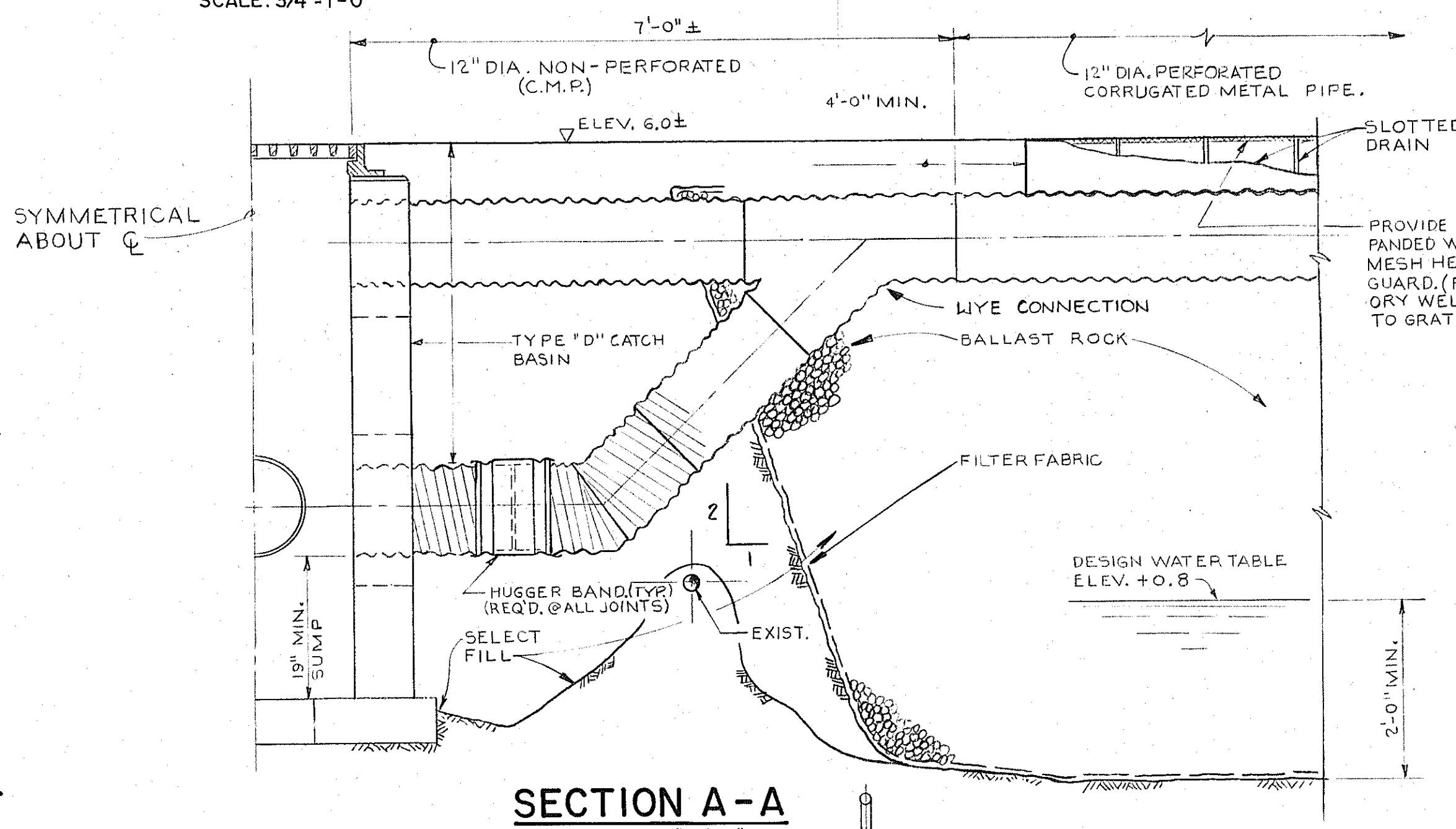
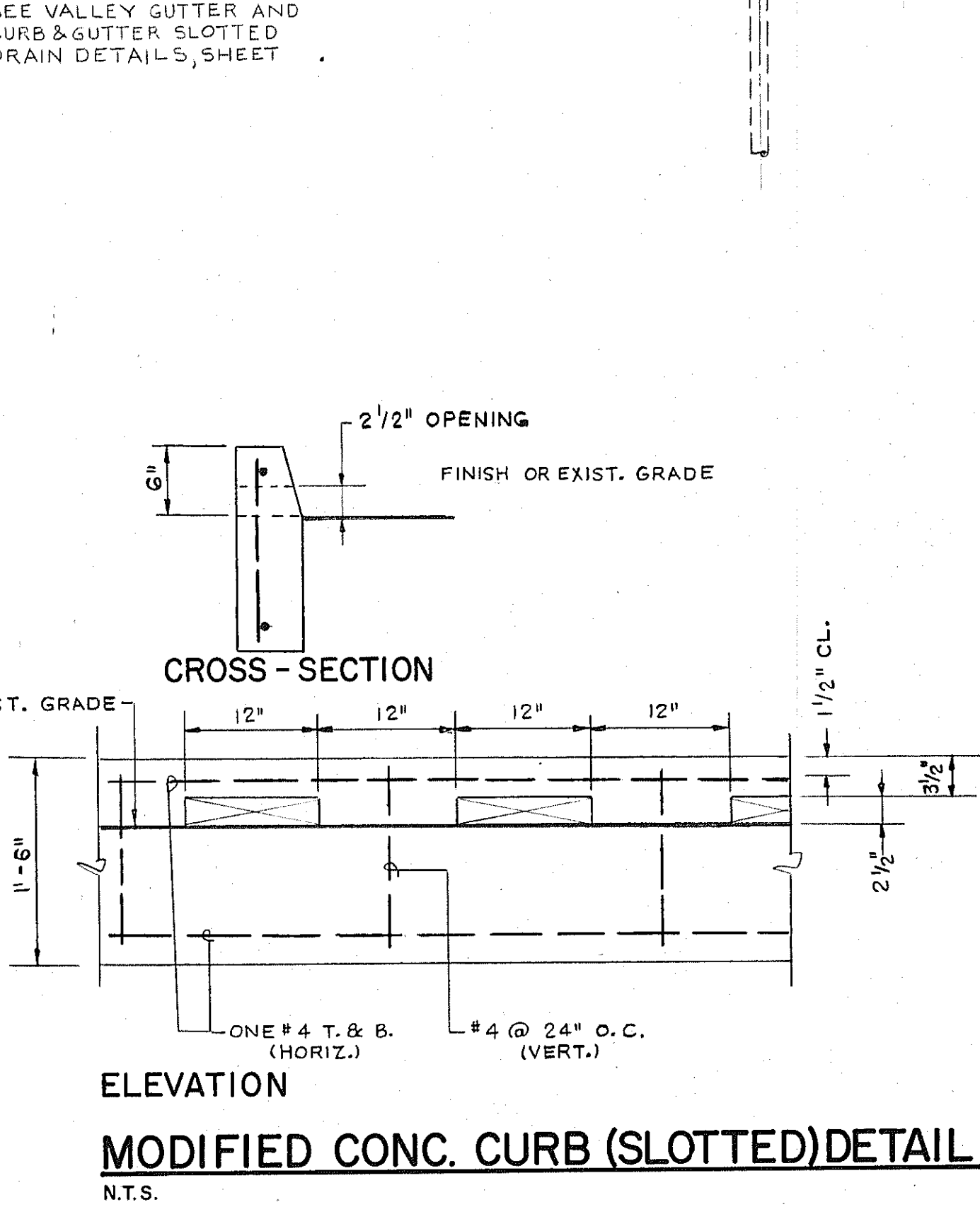
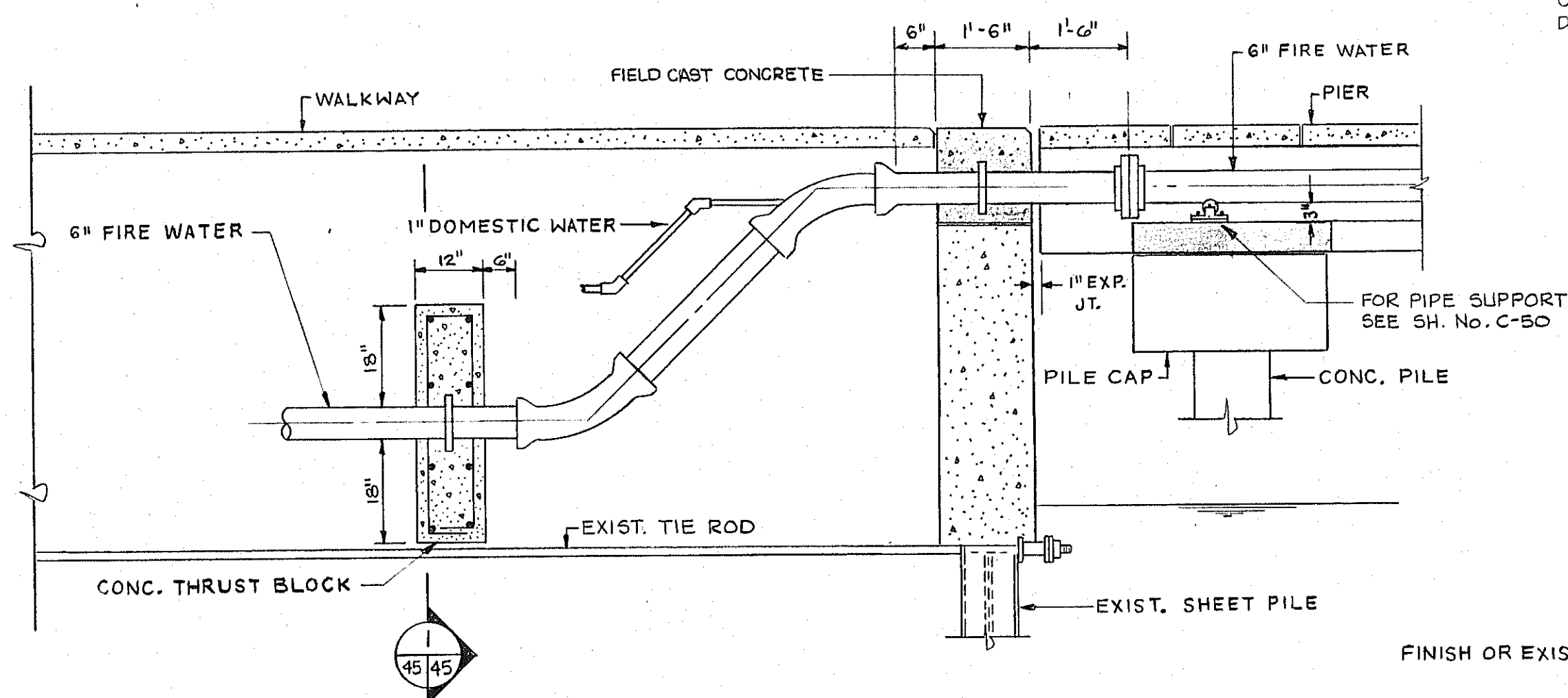
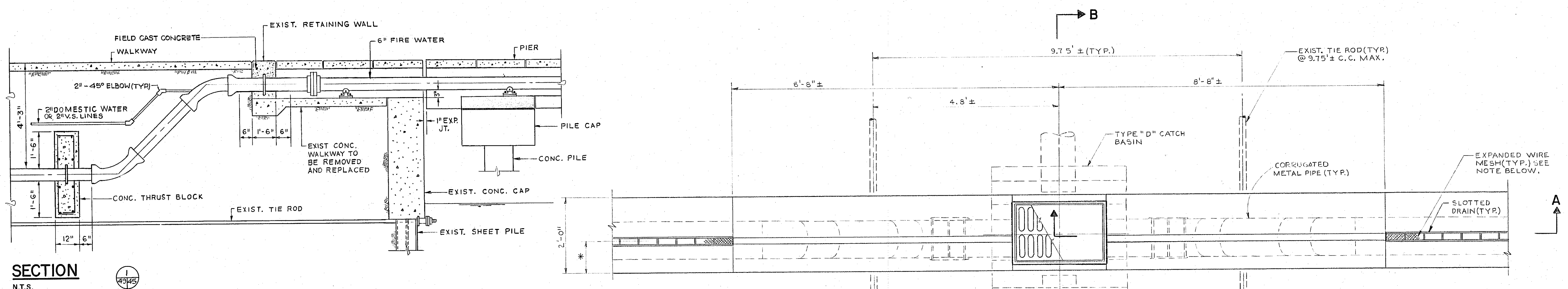
SECTION 7
(N.T.S.)



SECTION 8
(N.T.S.)

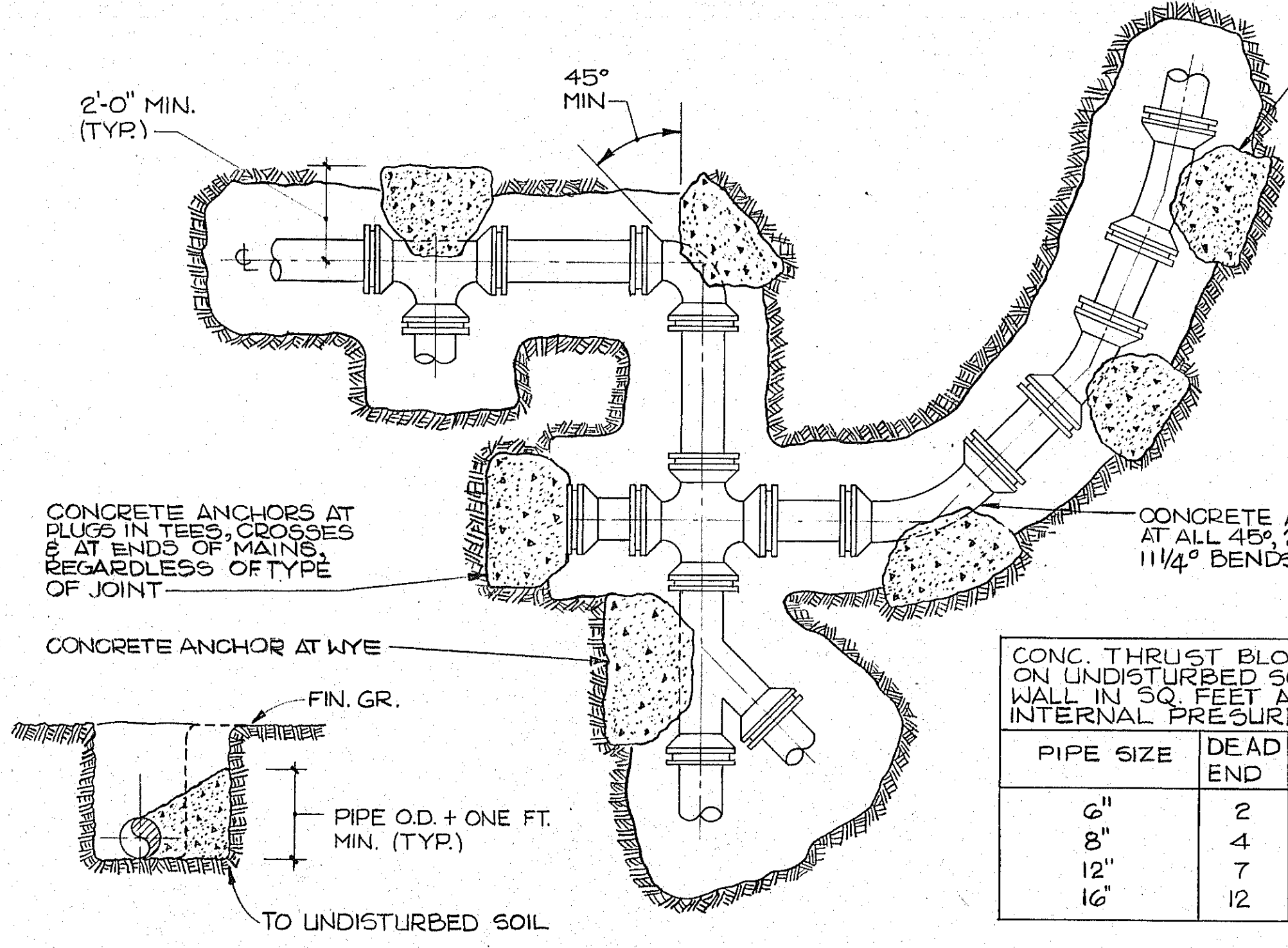
REVISIONS

NO.	DATE	DESCRIPTION



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

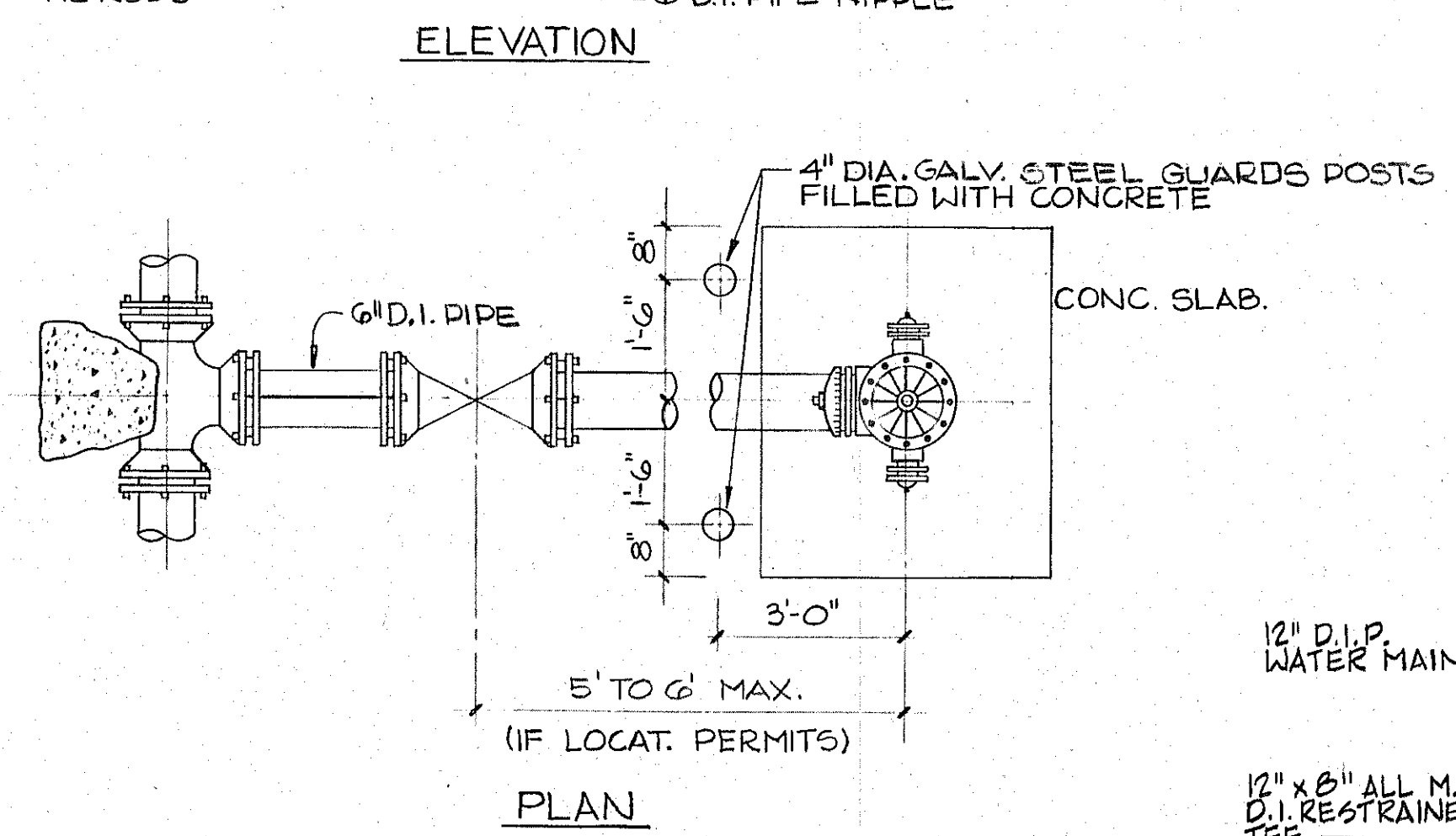
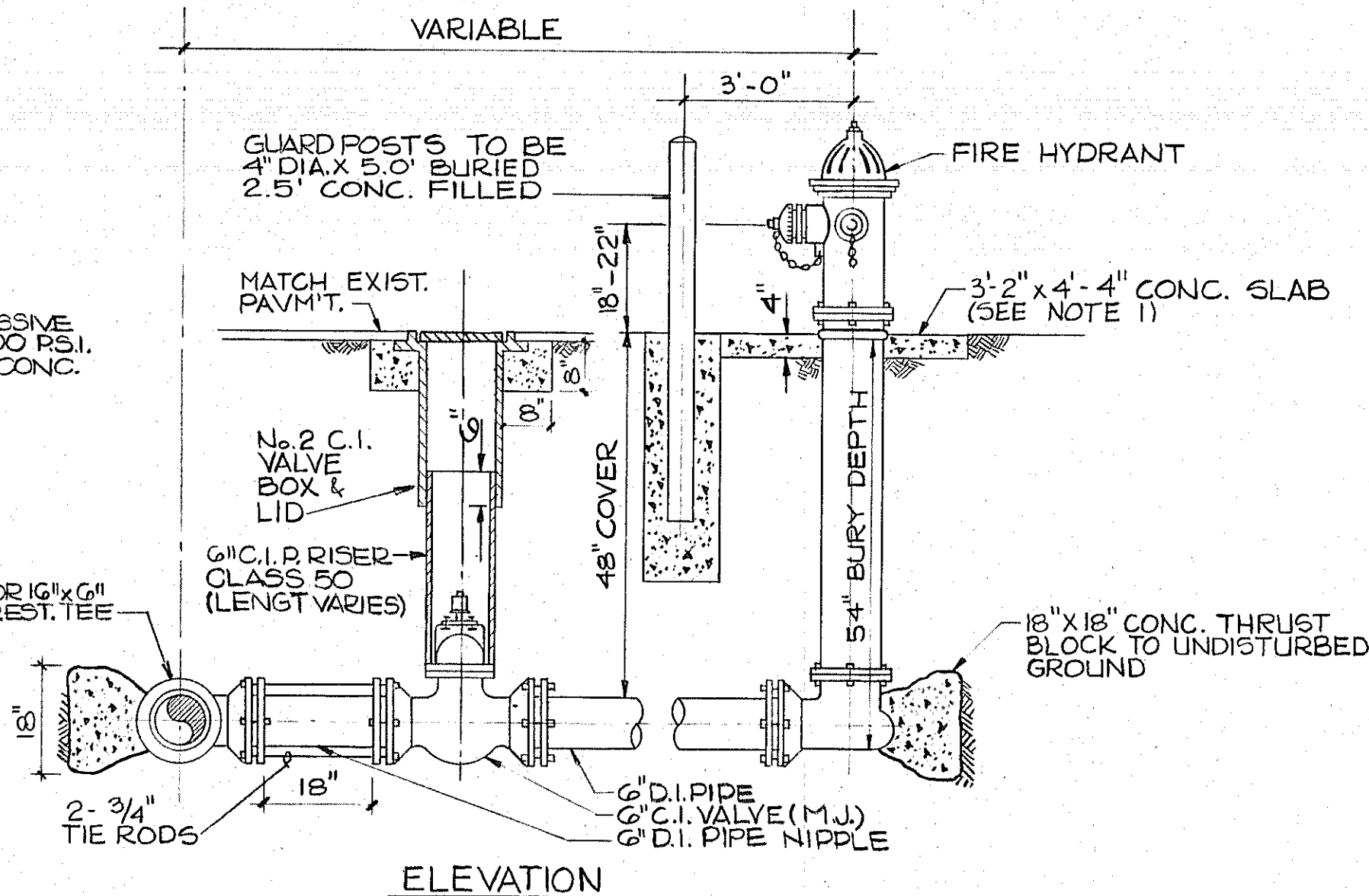
NOTE: CATCH BASIN LOCATIONS TO BE ADJUSTED IN FIELD TO CLEAR ANY OBSTRUCTION WITH EXIST. TIE BACKS.



- NOTES:
- 1- ABOVE BEARING AREAS ARE BASED ON AN ALLOWABLE SOIL-BEARING PRESSURE OF 2000 LBS/SQ. FT. AND MAY BE VARIED BY THE ENGINEER IF OTHER SOIL CONDITIONS ARE ENCOUNTERED IN THE FIELD.
 - 2- PLASTIC SHEET TO BE USED BETWEEN PLUGS, BOLTS OR HUBS. CONCRETE ANCHORS ARE REQUIRED ON TAPPING SLEEVES WHERE THE BRANCH IS EQUAL TO SIZE OF RUN. CONCRETE SHALL BE AT LEAST EQUAL TO THOSE TABULATED IN THE TABLE.

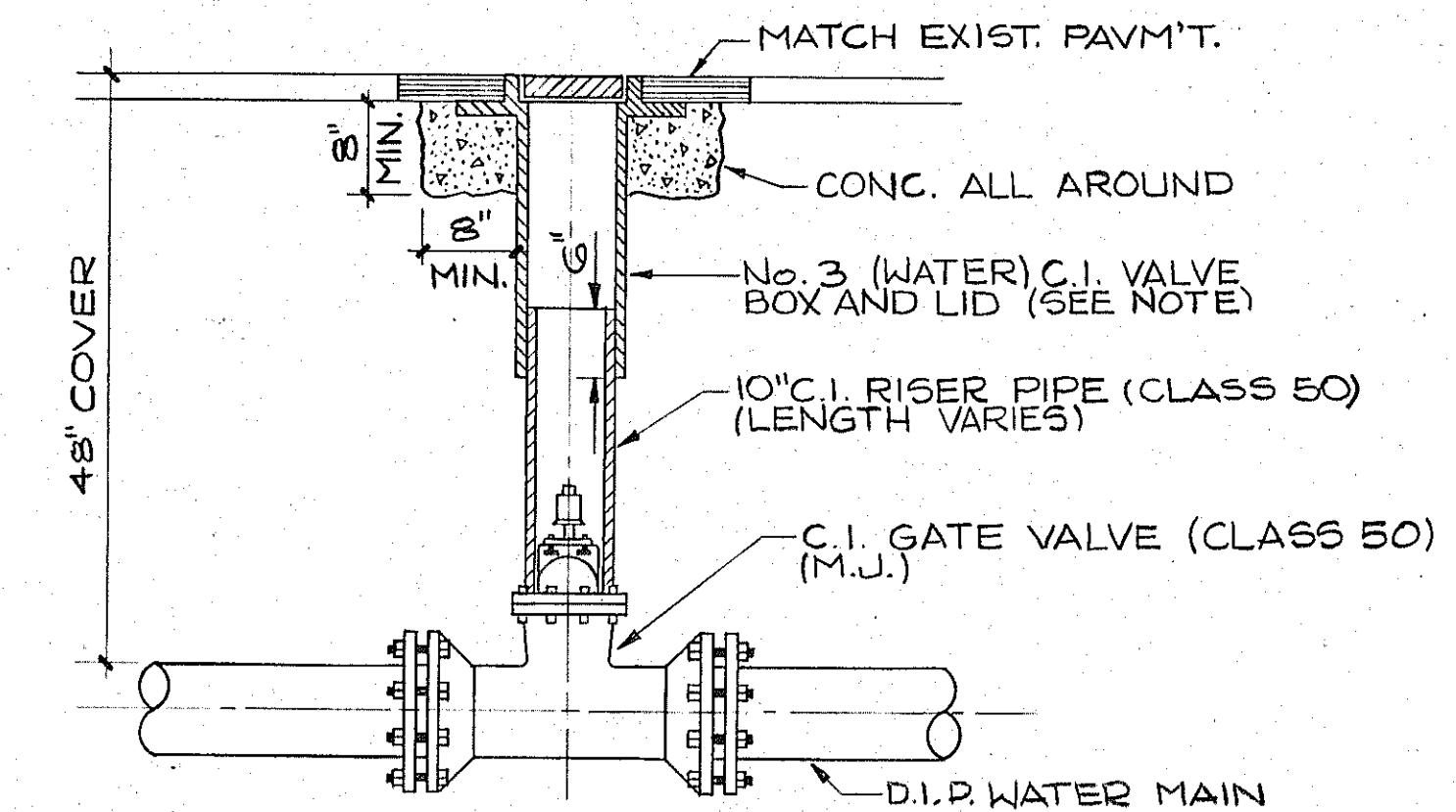
CONC. THRUST BLOCK BEARINGS ON UNDISTURBED SOIL OF TRENCH WALL IN 50 FEET AT 100 PSI INTERNAL PRESSURE

PIPE SIZE	DEAD END		HORIZ. BEND		
	90°	45°	22 1/2°	11 1/4°	
6"	2	3	1.5	1	1
8"	4	5	3	1.5	2
12"	7	10	6	3	1
16"	12	17	10	5	3



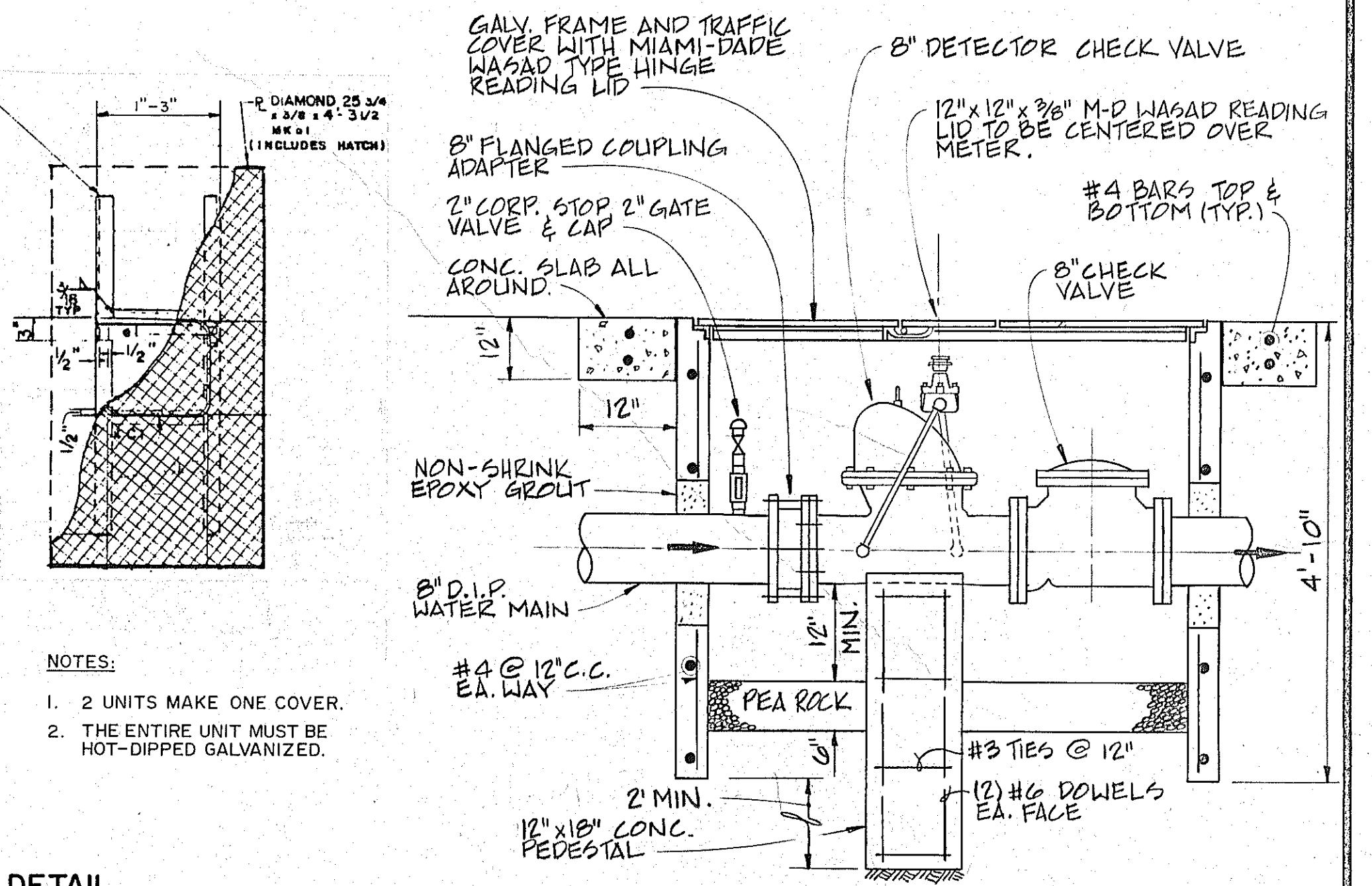
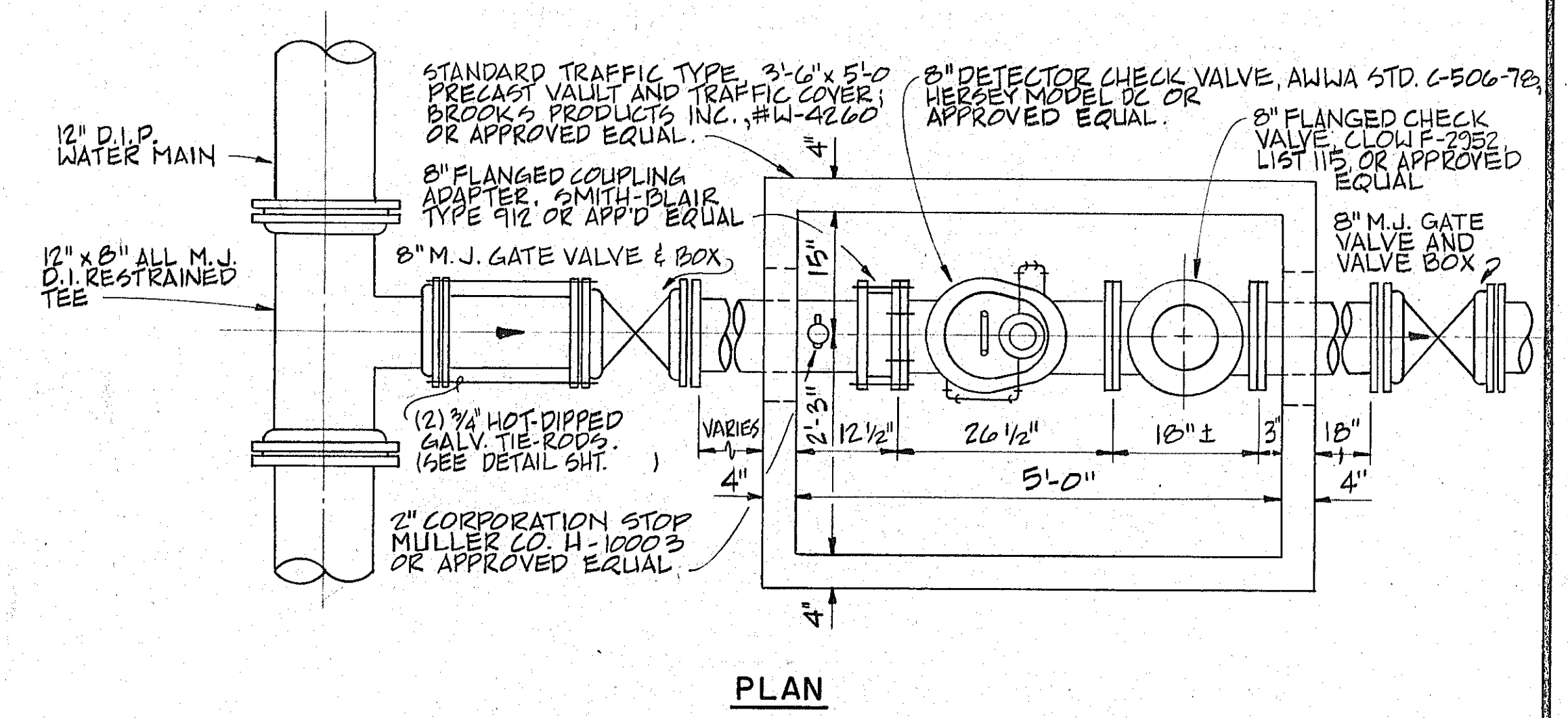
- NOTES:
- 1- CONCRETE SLAB MAY BE ELIMINATED IN AREAS WHERE SIDEWALK IS INSTALLED PRIOR TO FINAL ACCEPTANCE OF THE HYDRANT.
 - 2- HYDRANT TO BE NO MORE THAN 8' FROM A CLEAR DRIVING SURFACE.

TYPICAL FIRE HYDRANT INSTALLATION
(N.T.S.)



- NOTES:
1. USE No. 3 C.I. VALVE BOX IN ALL MAIN LINE VALVES.
 2. USE No. 2 C.I. VALVE BOX & 6\"/>

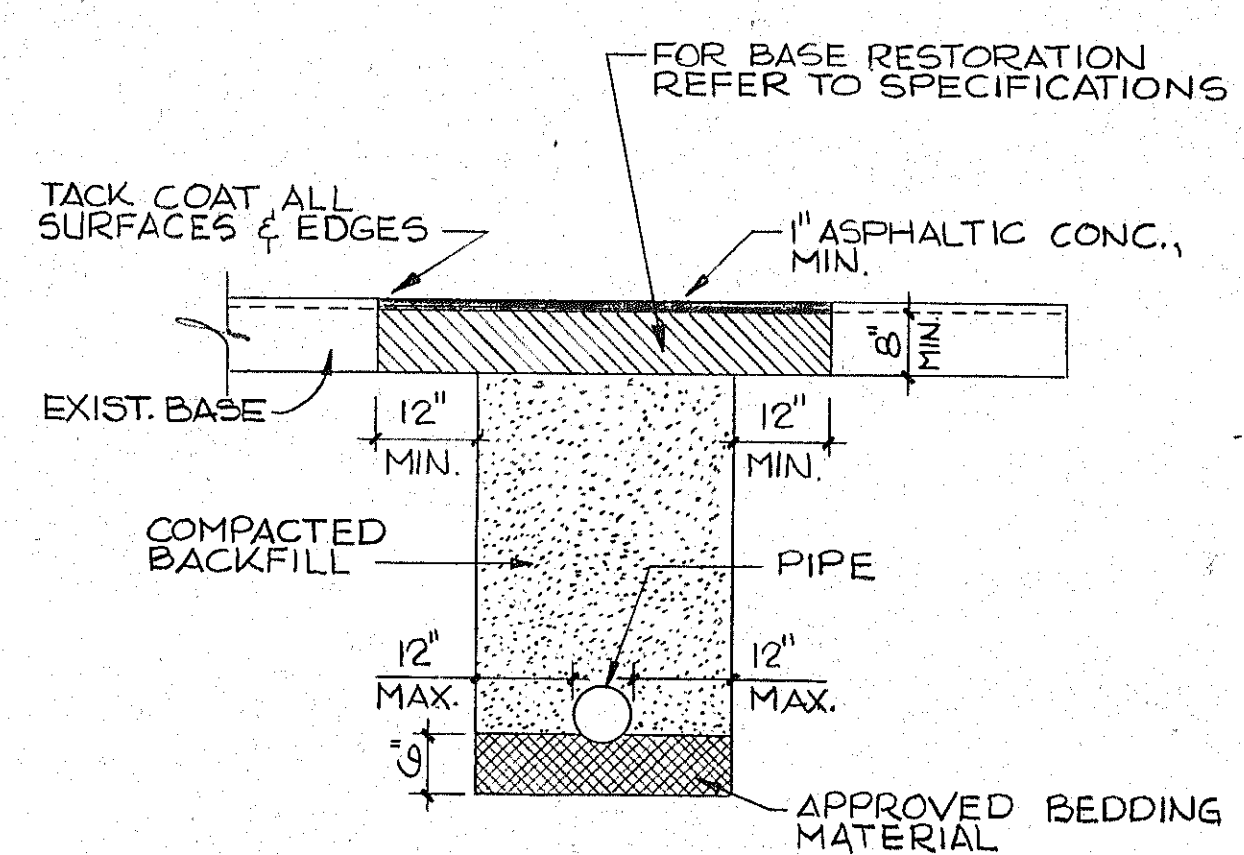
TYPICAL GATE VALVE DETAIL
(N.T.S.)



- NOTES:
1. 2 UNITS MAKE ONE COVER.
 2. THE ENTIRE UNIT MUST BE HOT-DIPPED GALVANIZED.

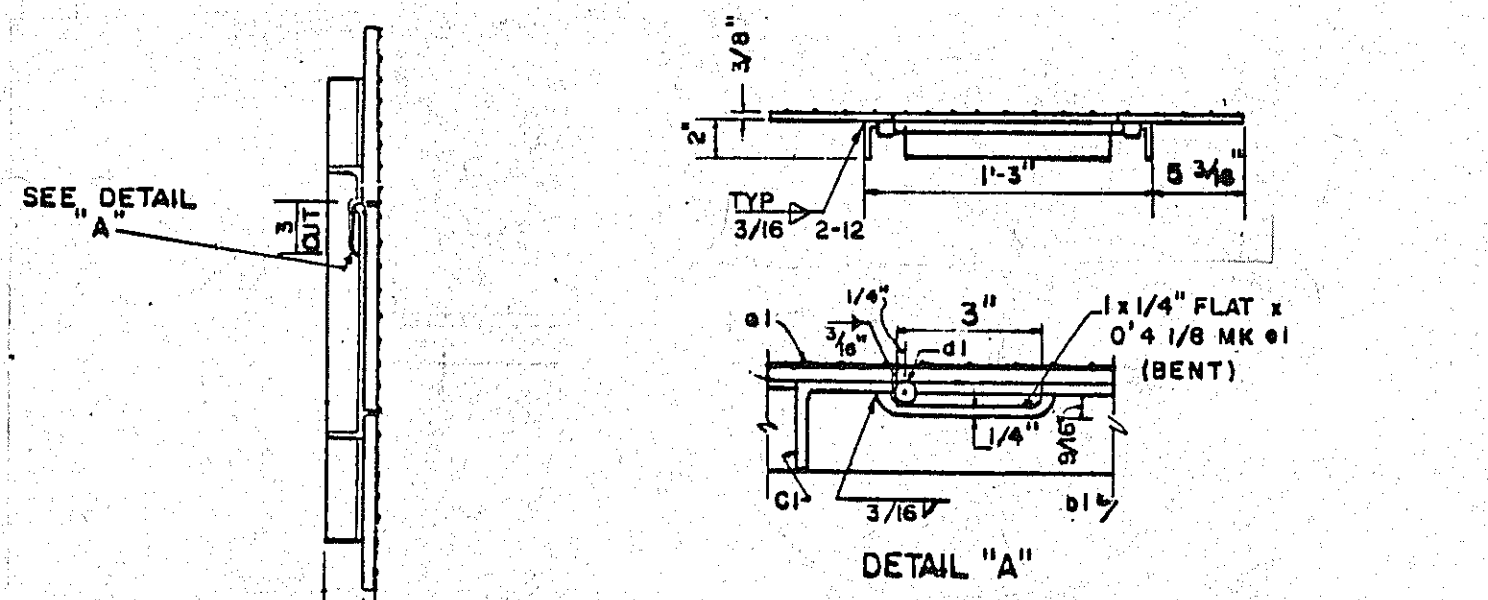
METER VAULT COVER DETAIL
(42" x 60" VAULT)
(N.T.S.)

CONCRETE THRUST BLOCK
(N.T.S.)

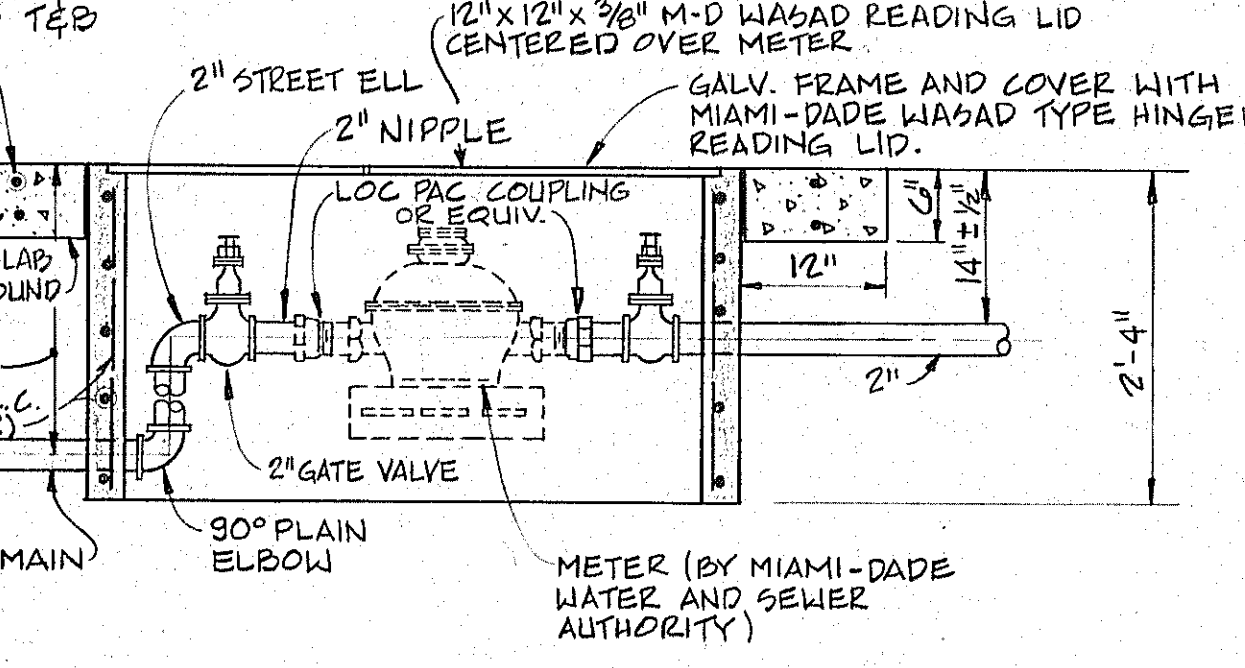
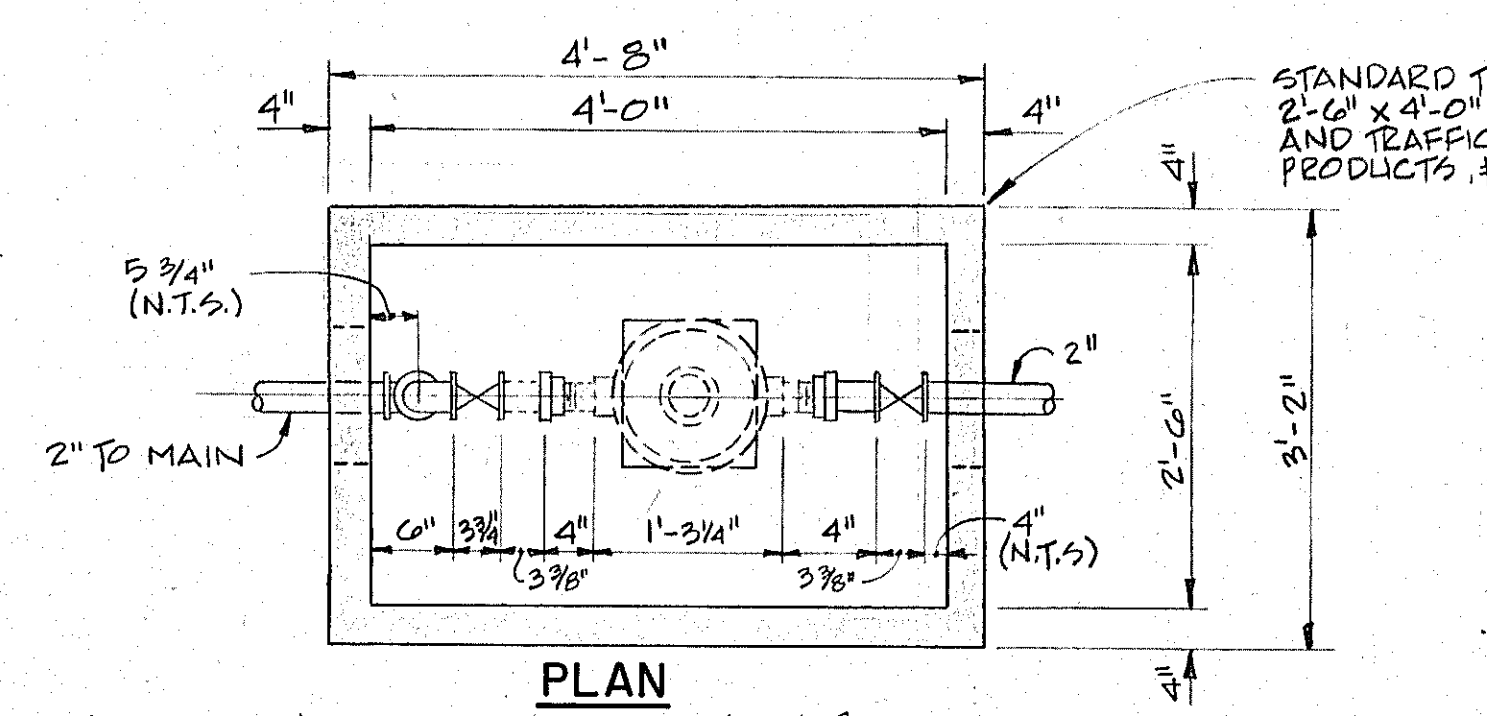


PAVEMENT RESTORATION TYPE I
(N.T.S.)

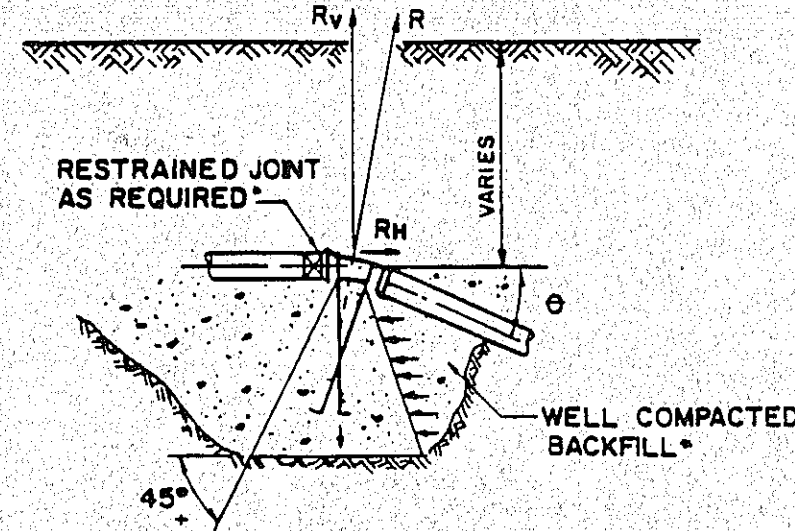
NOTE: UNLESS OTHERWISE SPECIFIED ALL CONCRETE OR OIL-SAND DRIVEWAYS SHALL BE REPLACED WITH TYPE I PAVMENT RESTORATION.



METER VAULT COVER DETAIL
(30" x 48" VAULT)
(N.T.S.)



SECTION
TYPICAL METER INSTALLATION
DOMESTIC WATER
(N.T.S.)



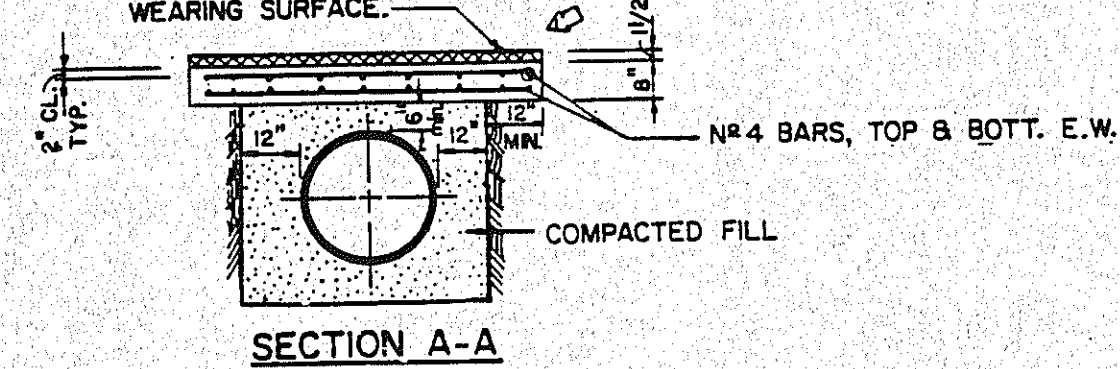
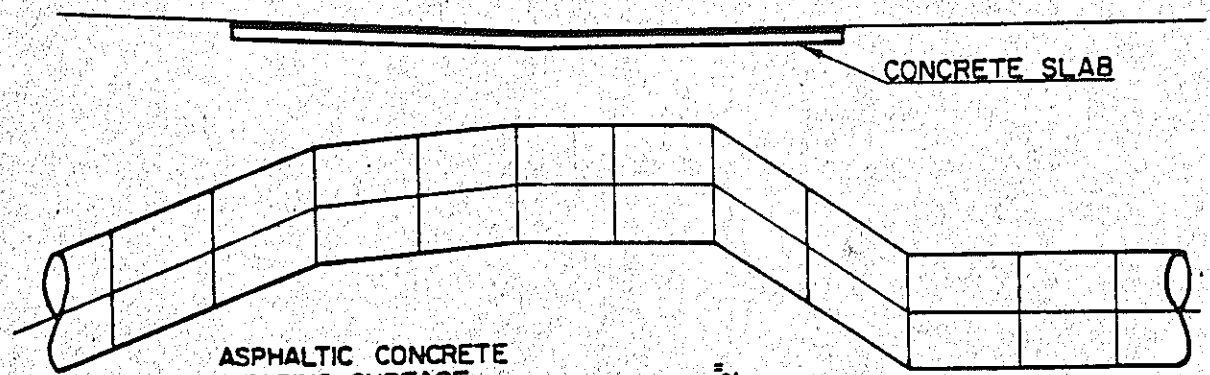
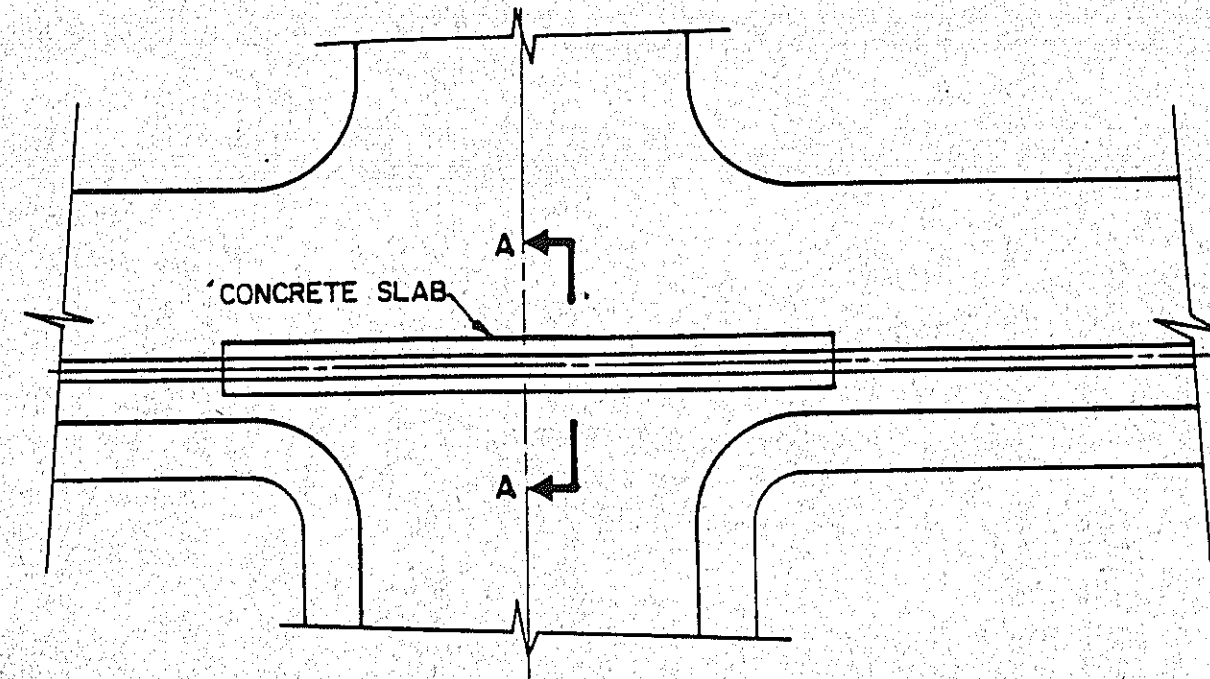
PIPE SIZE	MINIMUM CONCRETE ANCHORS FOR BENDS TURNED DOWN QUANTITIES IN CUBIC YARDS AT 100 PSI INTERNAL PRESSURE		
	45° BEND	22½° BEND	1¼° BEND
6"	0.7	0.4	0.2
8"	1.1	0.6	0.3
12"	2.4	1.3	0.7
16"	4.2	2.3	1.2

QUANTITIES ARE GIVEN FOR CONCRETE ANCHORS IN DRY SOIL. QUANTITIES OF CONCRETE ANCHORS TO BE USED BELOW THE GROUND WATER TABLE SHALL BE CALCULATED BY MULTIPLYING ABOVE VALUES WITH 1.76. VERTICAL BENDS TURNED UP SHALL BE ANCHORED WITH THE SAME SIZE ANCHORS AS SPECIFIED FOR HORIZONTAL BENDS.

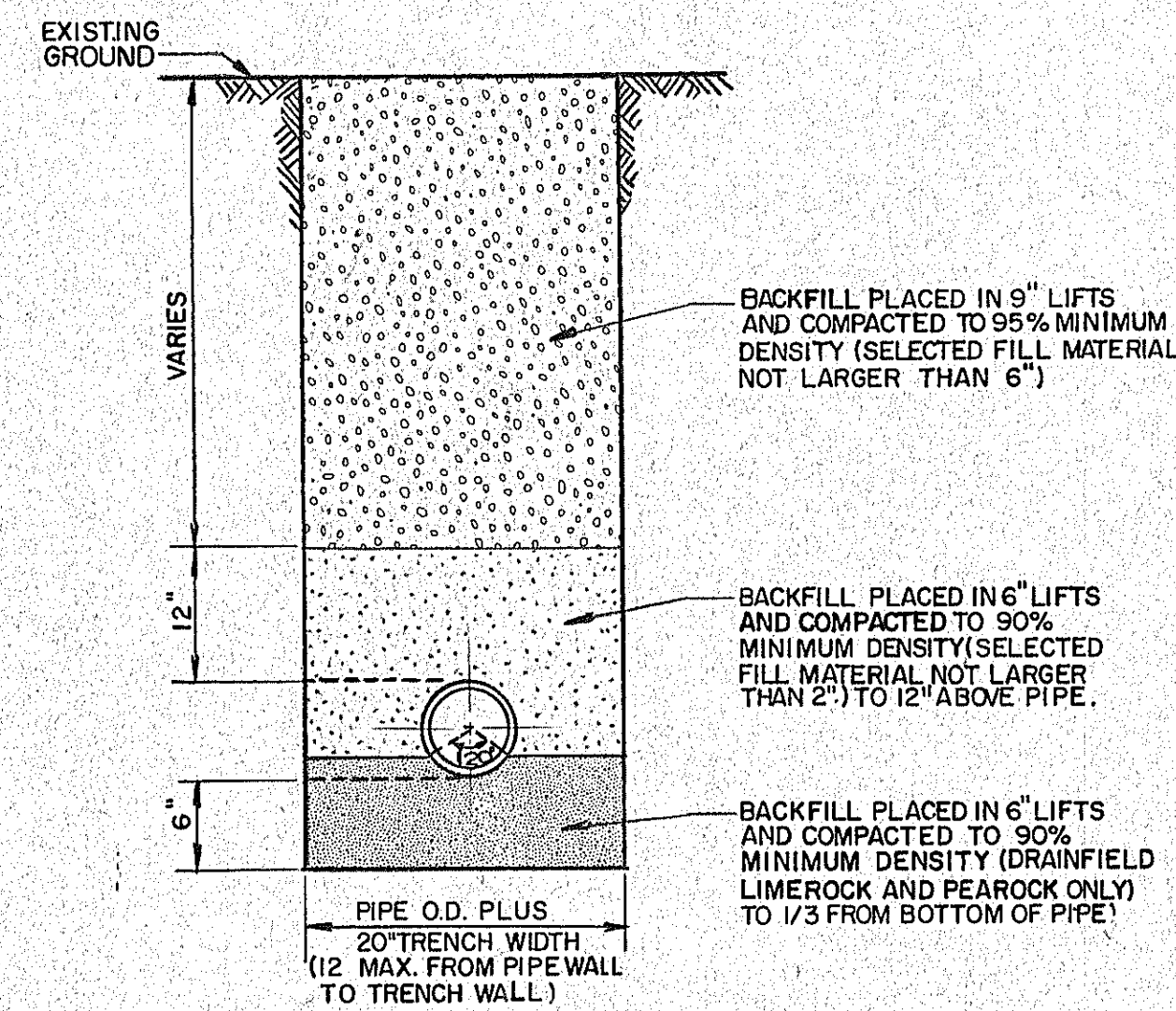
FOR PIPE SIZES LARGER THAN 16", WEIGHT OF PIPE, WATER AND WEIGHT OF SOIL ABOVE ANCHOR MAY BE CONSIDERED TO DECREASE VOLUME OF CONCRETE BLOCK.

*RESTRAINED JOINTS MAY BE USED OR ADDED TO CONCRETE BLOCK IF HORIZONTAL PRESSURE GREATER THAN ALLOWABLE SOIL BEARING PRESSURE AS DETERMINED BY THE ENGINEER.

CONCRETE ANCHOR DETAILS
N.T.S.

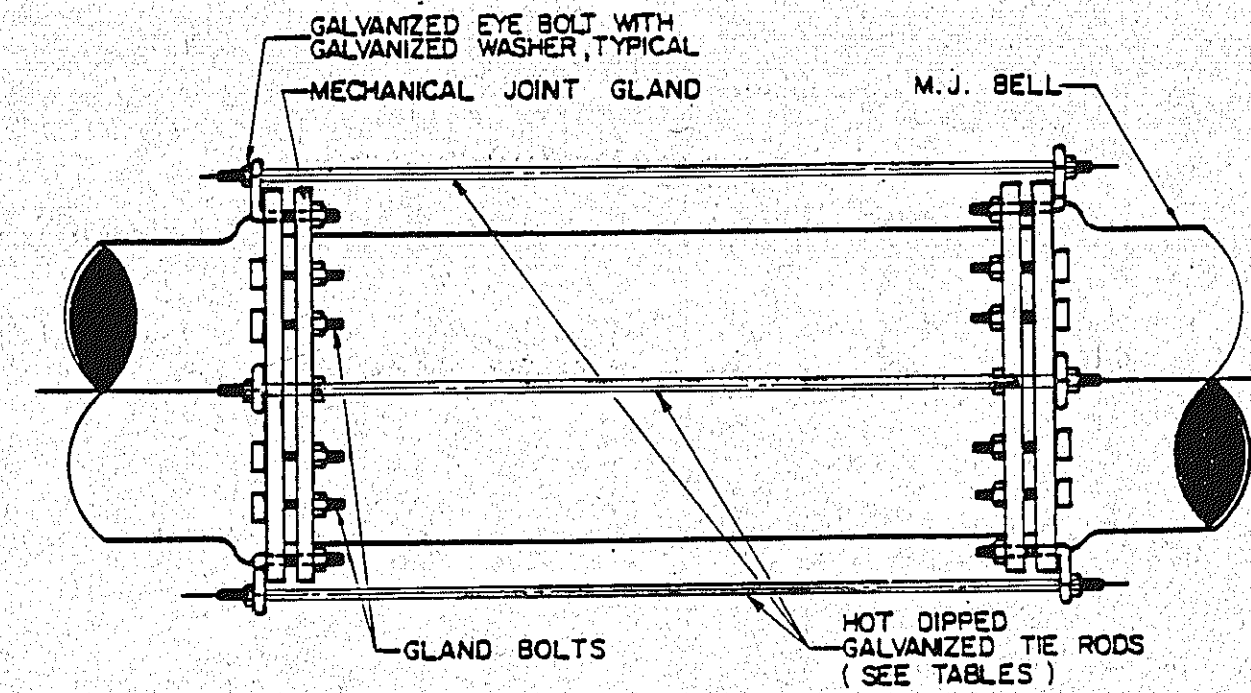


REINFORCED CONCRETE SLAB
(FOR GROUND COVER LESS THAN 2.5')
N.T.S.



- NOTES:
- PIPE BARREL SHALL LAY FLAT ON THE BOTTOM OF TRENCH AND BELL HOLES PROVIDED TO ACCOMMODATE PIPE BELL.
 - REFER TO SPECIFICATIONS FOR EXCAVATION IN MUCK OR OTHER UNSUITABLE MATERIAL.

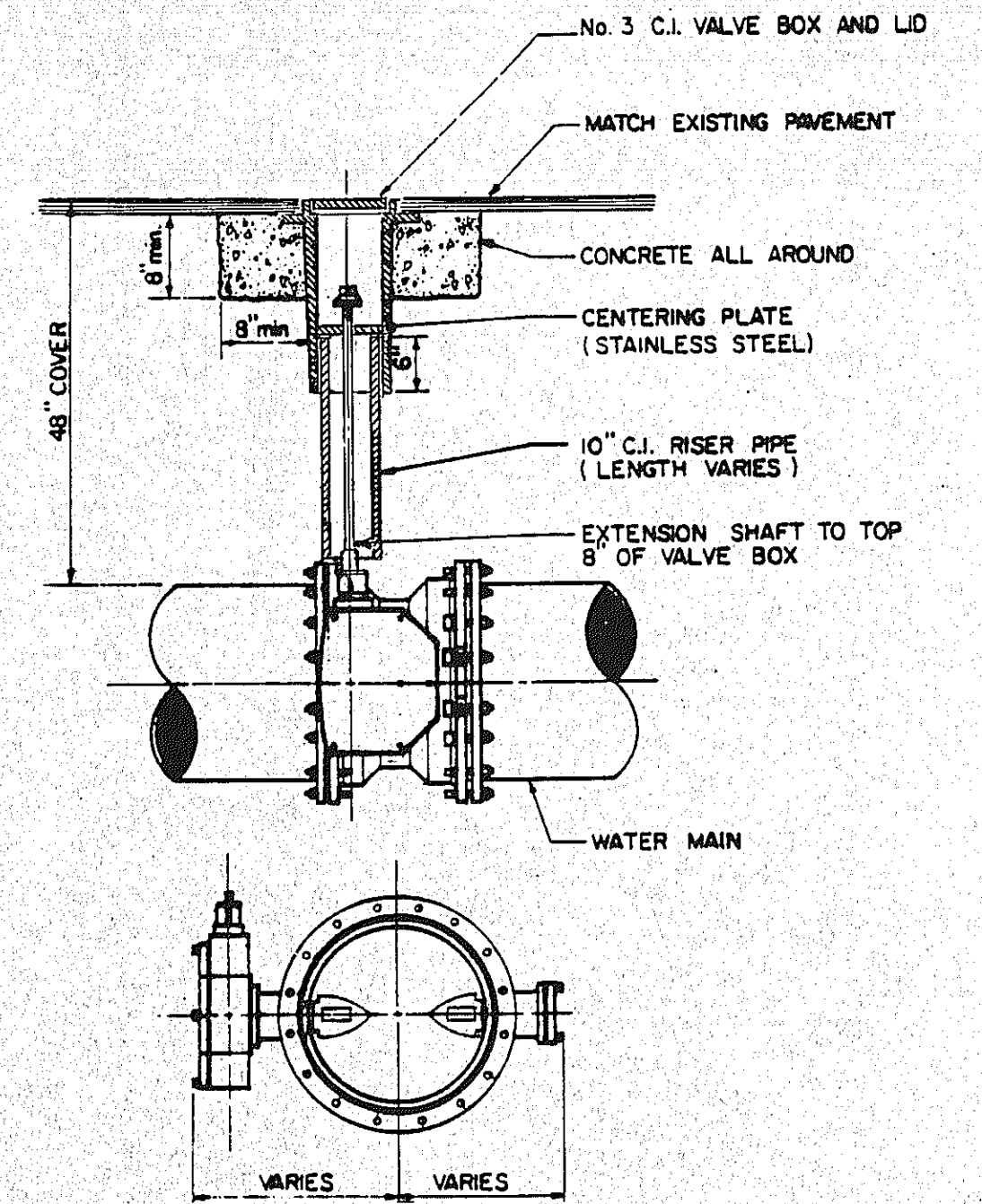
TYPICAL TRENCH BACKFILL
(12" AND 16" DIA. WATER MAINS)
N.T.S.



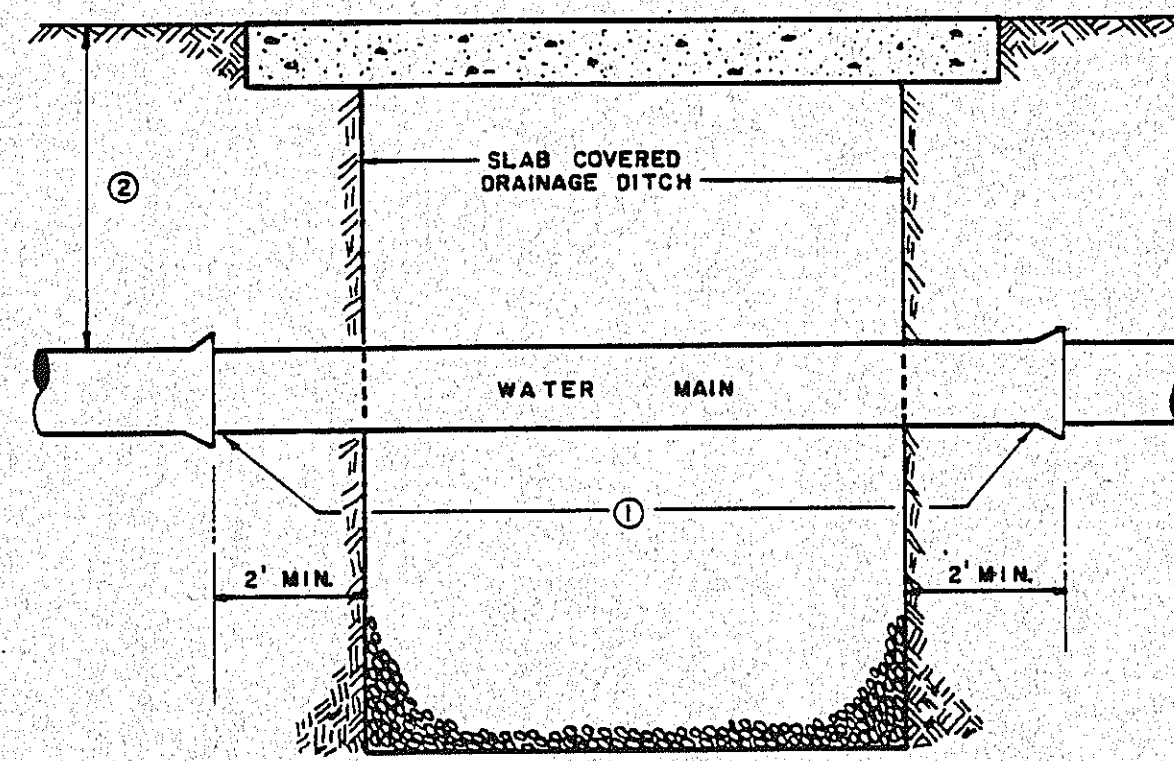
STAR NATIONAL PRODUCTS
FIGURE NO. 7 OR APPROVED EQUAL
EYE BOLT = GLAND BOLT

PIPE SIZE	PRESSURE AT 100 P.S.I.		PRESSURE AT 150 P.S.I.	
	ROD DIAMETER	No. OF RODS	PIPE SIZE	No. OF RODS
6"	3/4"	2	6"	2
8"	3/4"	2	8"	3
12"	3/4"	4	12"	4
16"	3/4"	6	16"	6
24"	3/4"	10	20"	9

TYPICAL TIE ROD DETAILS
N.T.S.

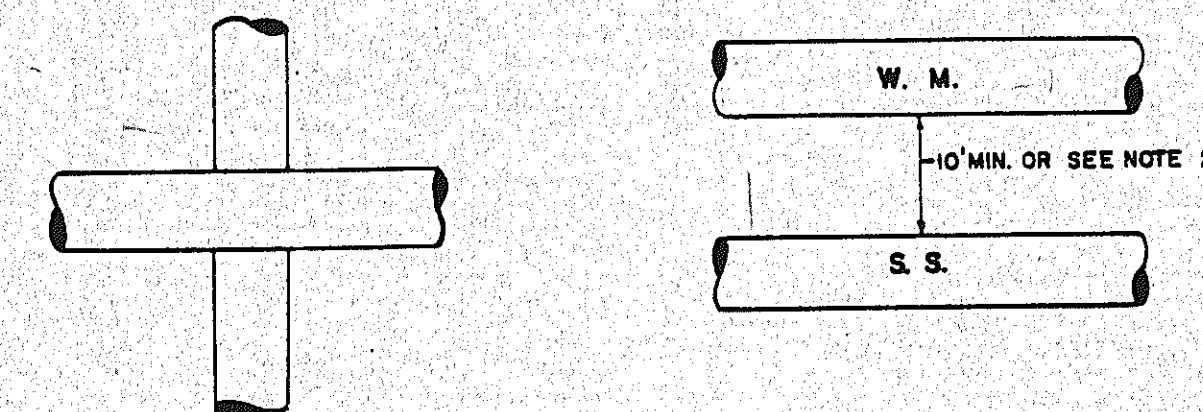


TYPICAL 16" M.J. BUTTERFLY VALVE INSTALLATION
N.T.S.



- WATER MAIN SHALL BE A CONTINUOUS LENGTH OF DUCTILE IRON PIPE TO EXTEND 2 FEET MINIMUM EITHER SIDE OF THE DRAINAGE DITCH, WITH NO FITTINGS OR JOINTS WITHIN THE DITCH.
- 4' 0" COVER OVER WATER MAIN.
- SOIL CONDITIONS MAY REQUIRE HEADWALLS.

WATER MAIN CROSSING THRU DRAINAGE DITCH
N.T.S.



- CONDITION "A" WATER MAIN CROSSING OVER SEWER MAIN OR LATERAL.
- CONDITION "B" WATER MAIN CROSSING UNDER SEWER MAIN OR LATERAL.

- CONDITION "A" MINIMUM VERTICAL SEPARATION SHALL BE 18" OR SEWER MAIN MUST BE DUCTILE IRON PIPE FOR A CONTINUOUS LENGTH OF 20' CENTERED AT THE WATER MAIN.
- CONDITION "B" SEWER MAIN MUST BE DUCTILE IRON PIPE FOR A CONTINUOUS LENGTH OF 20' CENTERED AT THE WATER MAIN REGARDLESS OF VERTICAL CLEARANCE.
- NOTE: CONCRETE ENCASEMENT SHALL NOT BE ACCEPTED BY MIAMI DADE WATER AND SEWER AUTHORITY.

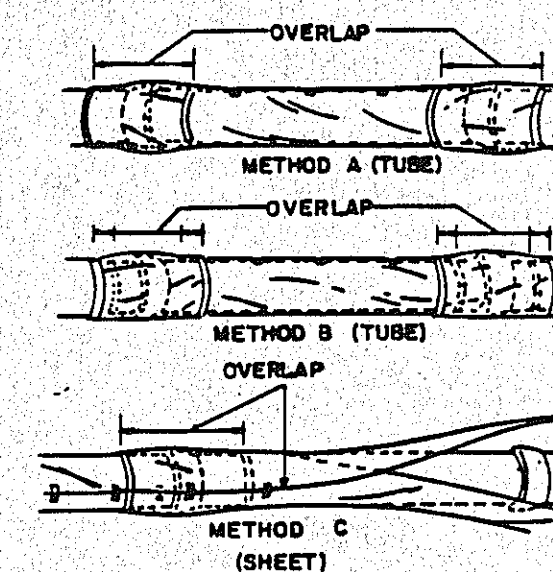
WATER AND SANITARY SEWER MAINS CROSSING
N.T.S.

Method "A"
Cut the polyethylene tube 2 ft. longer than the length of pipe section. Slip the tube around the pipe so as to allow 1' overlap at each end. Overlap the other pipe section after pipe is installed.

Method "B"
Cut the polyethylene tube 1 ft. shorter than the length of pipe sections. Slip the tube around the pipe so as to allow 6" of bare pipe at each end. Before making a joint, slip a 3-ft. length of polyethylene tube over the preceding pipe section. Overlap by at least 1 ft. and secure, after joint is made.

Method "C"
Flat polyethylene sheet shall have a minimum width of twice the flat tube width (see table). Cut the sheet 2 ft. longer than the length of pipe section and wrap around pipe, so it overlaps circumferentially over the top quadrant of the pipe.

- NOTES:
- The MD&S Authority reserves the right to require polyethylene encasement wherever, in their opinion, corrosive soil exists.
 - Tube size will be as listed in table.
 - Pipe-shaped fittings (bends, reducers, etc.) shall be treated according to Methods "A" and "B". Odd shaped fittings (valves, tees, etc.) shall be treated according to Method "C".
 - 6" adhesive tape shall be used to secure encasement.
 - Special care shall be taken to prevent damage to wrapping when placing backfill.
 - Refer to ASTM D1246 for approved material and accessories.
 - Only virgin polyethylene material having a minimum thickness of 8 mils is approved.



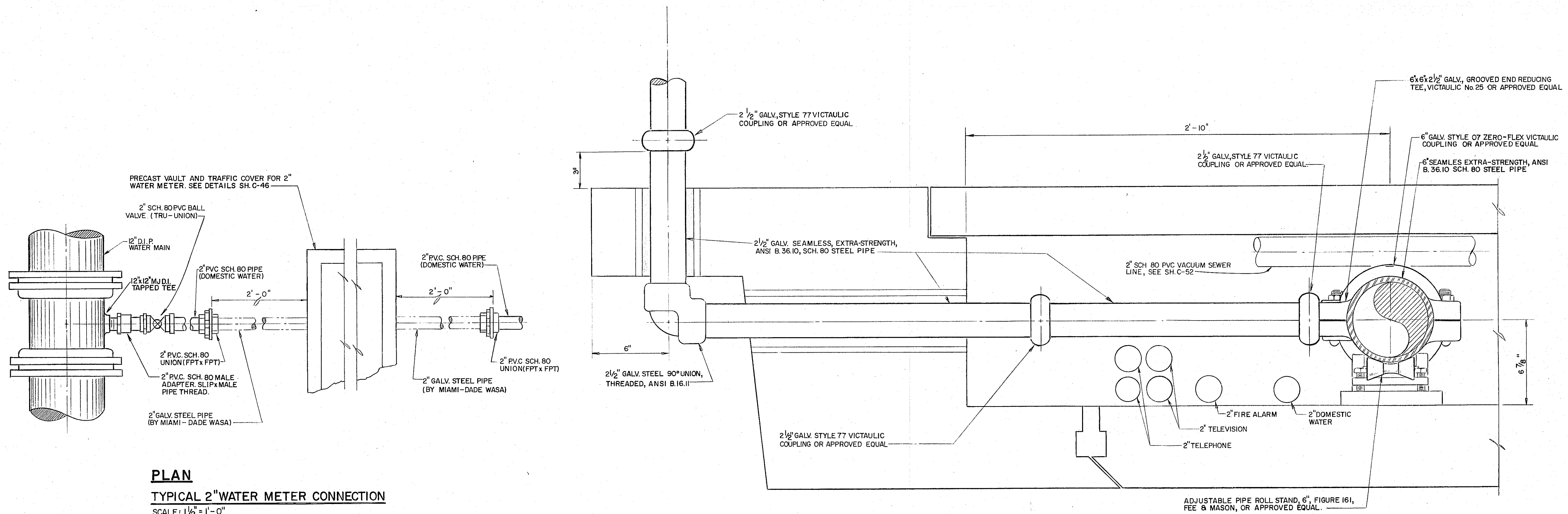
NOMINAL PIPE DIAMETER (IN)	POLYETHYLENE FLAT TUBE WIDTH (IN)
4	16
6	20
8	24
12	30
16	37
20	45
24	54
30	67
36	81

POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE
N.T.S.

LAND SIDE WATER MAIN DETAILS

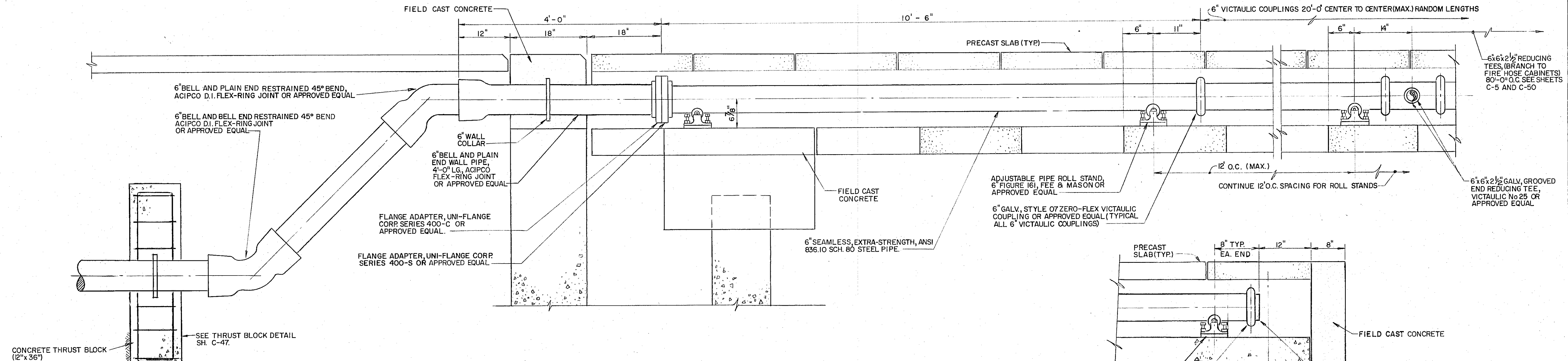
REVISIONS

NO. DATE

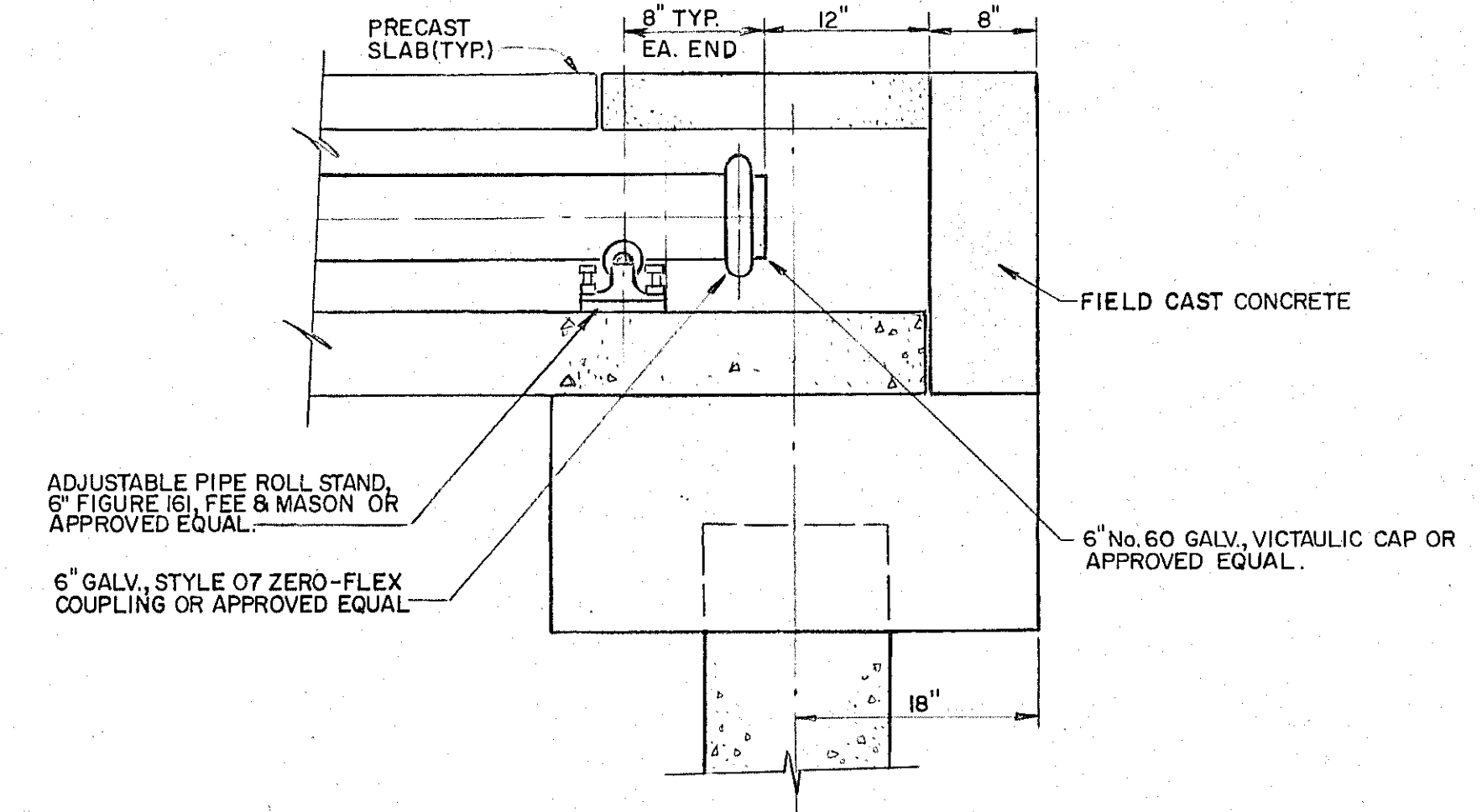


PLAN
TYPICAL 2" WATER METER CONNECTION
SCALE: 1/2" = 1'-0"

SECTION
(SEE SHEETS C-II THRU C-16)
TYPICAL FIRE LINE INSTALLATION
SCALE: 3" = 1'-0"



6" FIRE LINE - TYPICAL INSTALLATION ALONG PIERS
SCALE: 1" = 1'-0"



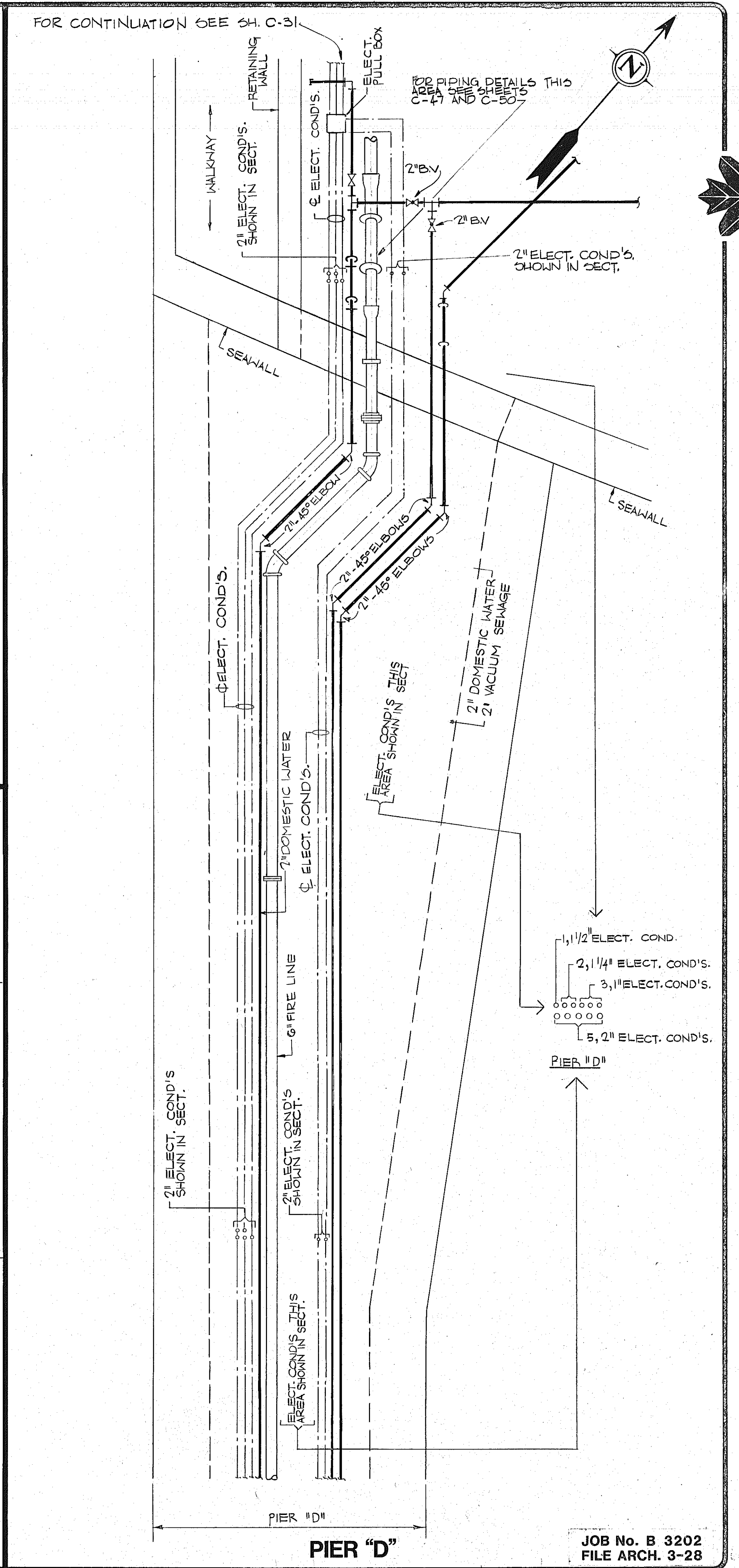
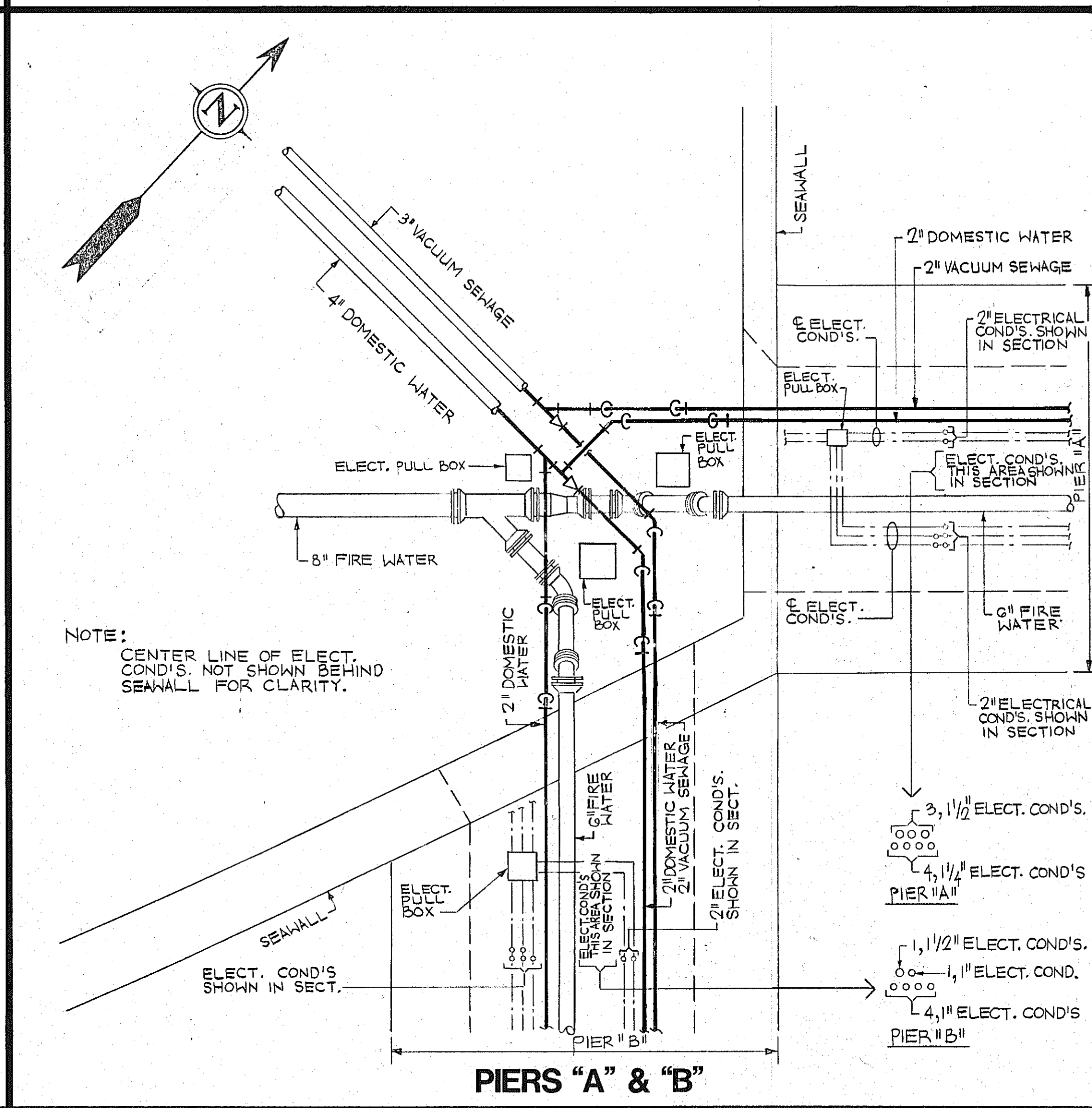
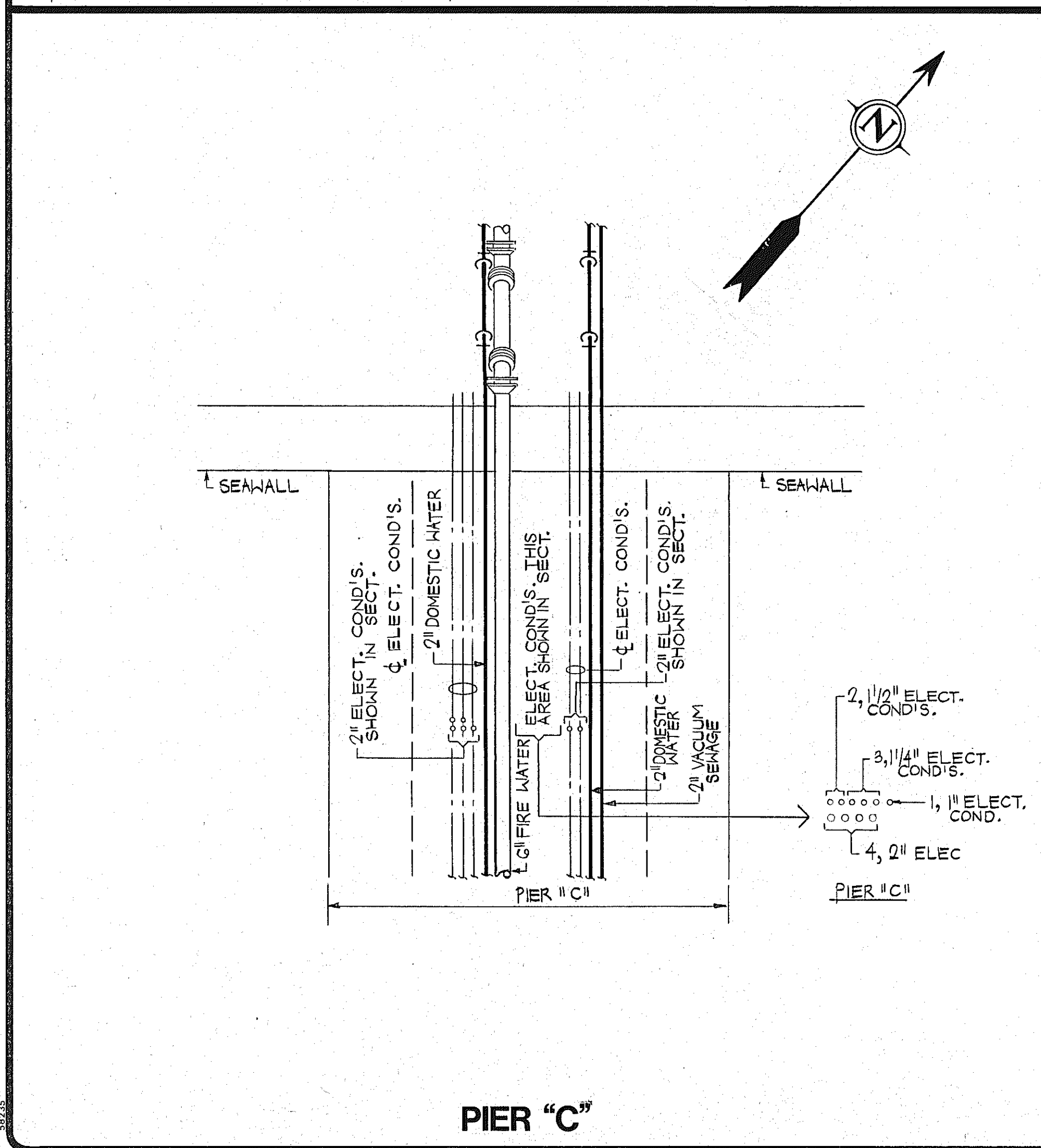
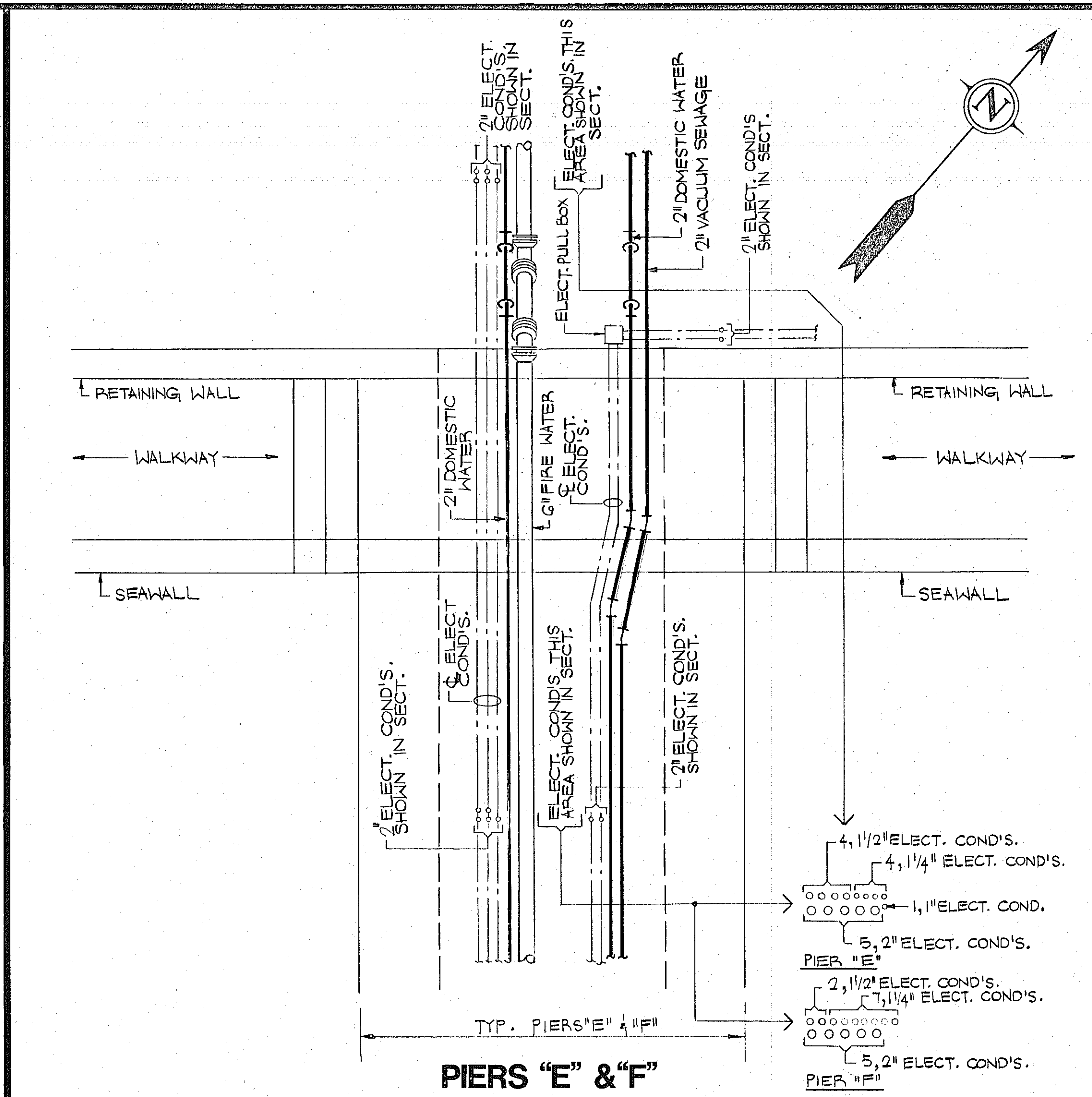
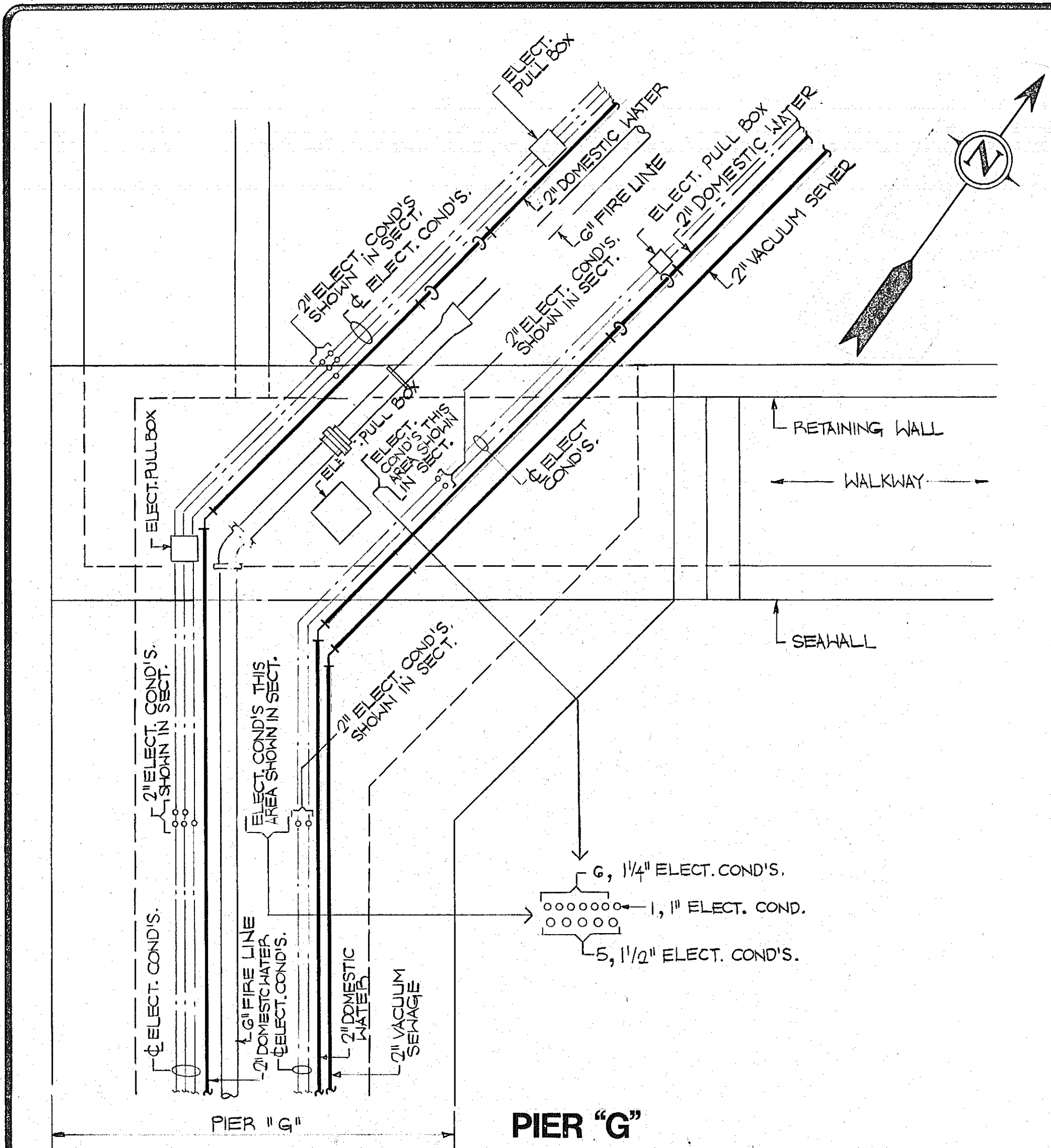
TYP. DETAIL - 6" FIRE LINE & CAP AT END OF PIER
SCALE: 1" = 1'-0"

REVISIONS

NO.	DATE	DESCRIPTION

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

DES.	CHK'D.	APP'D.	DATE
SHEET			FILE

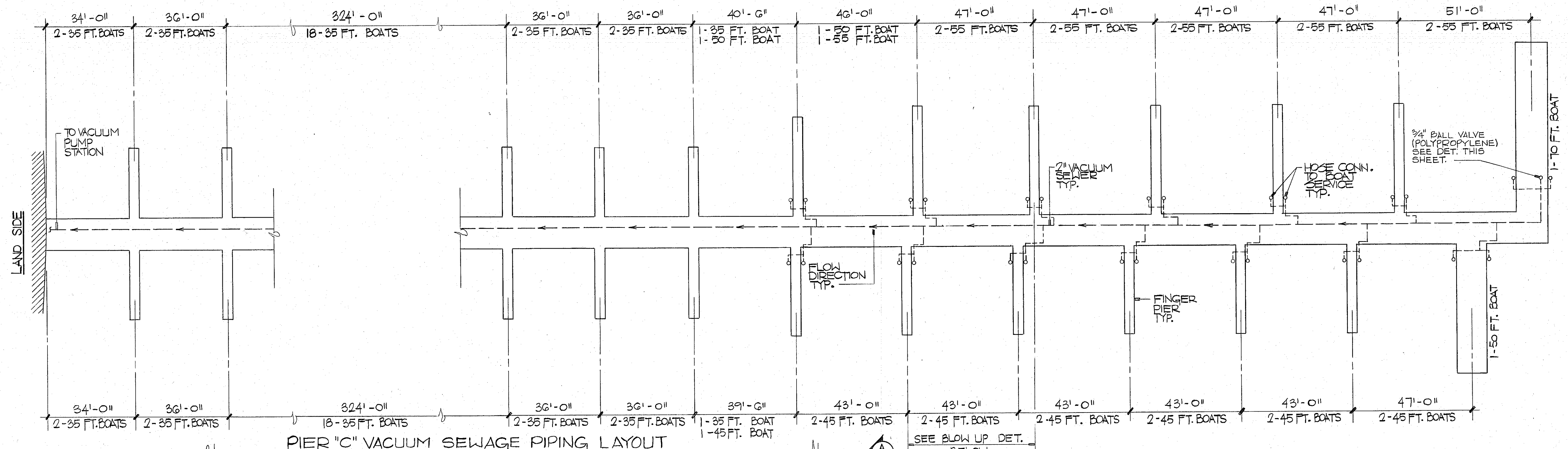


REVISIONS

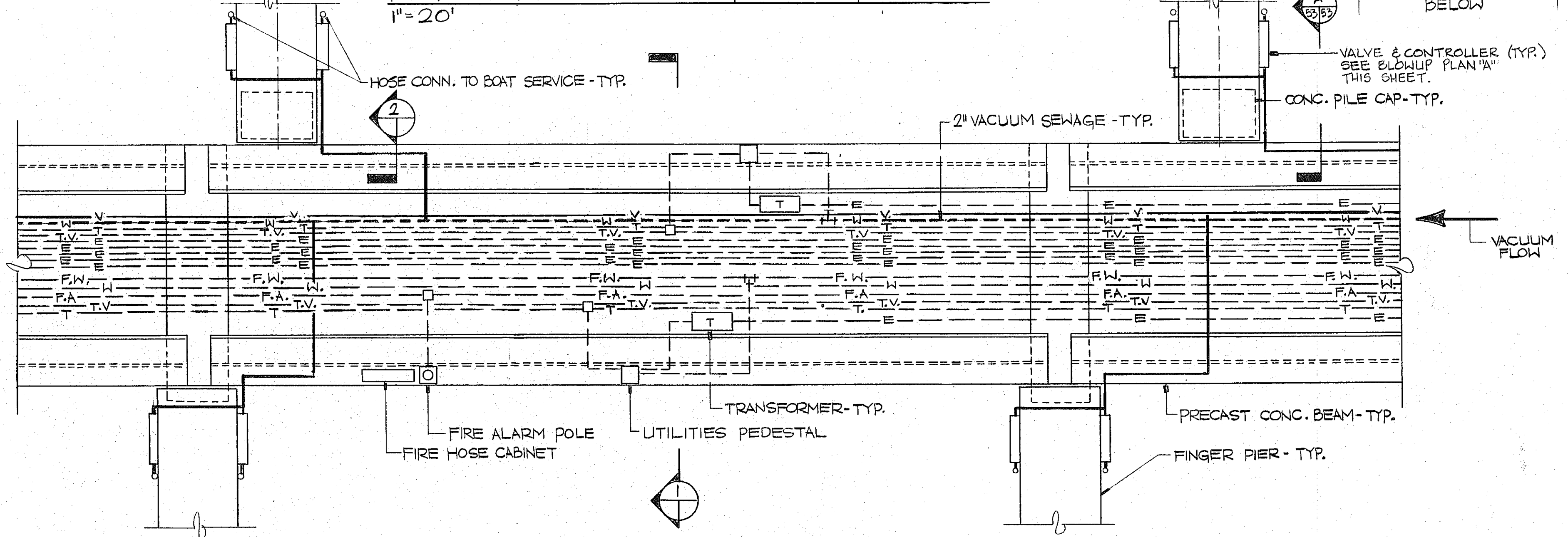
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REVISIONS

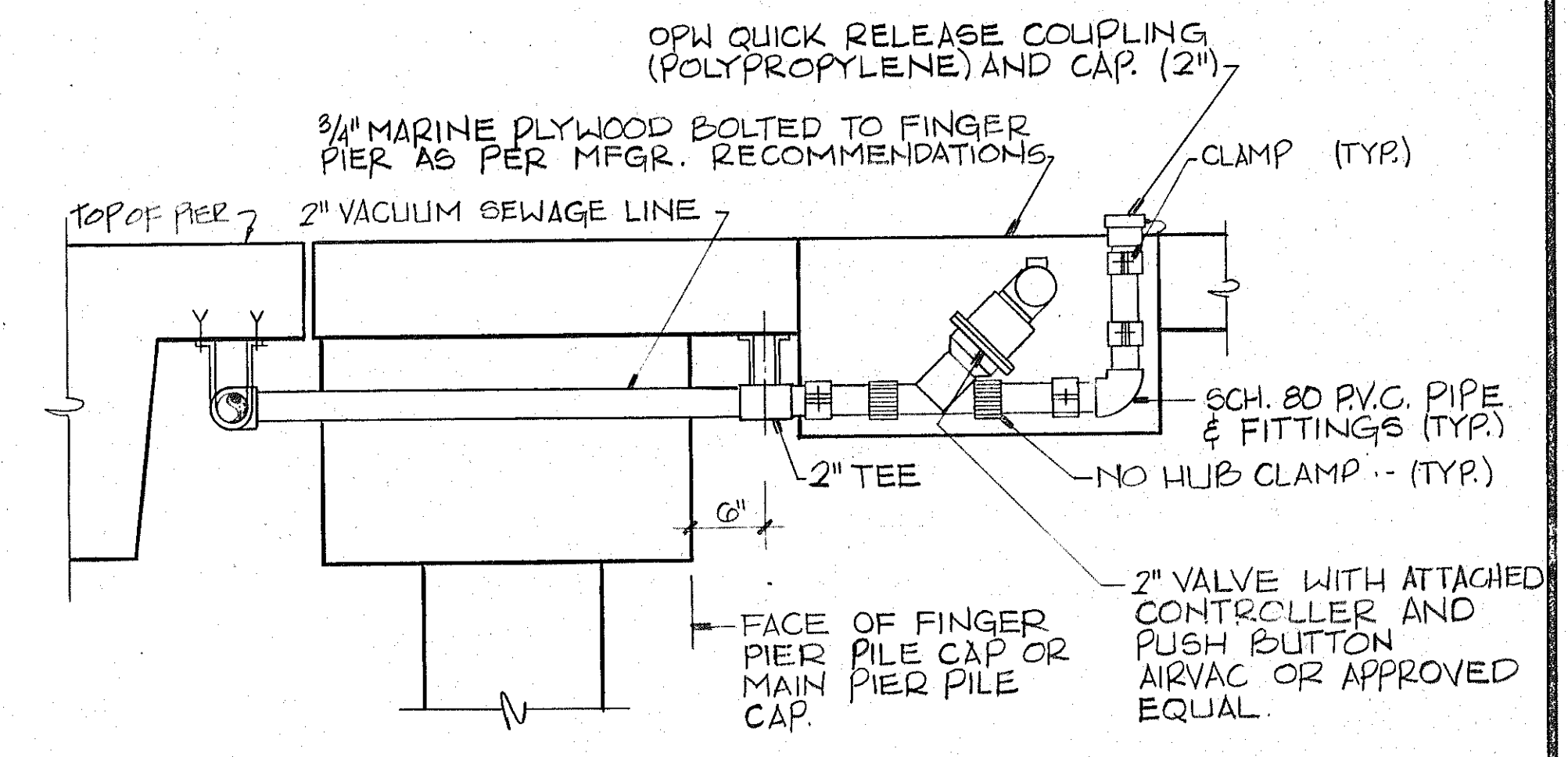
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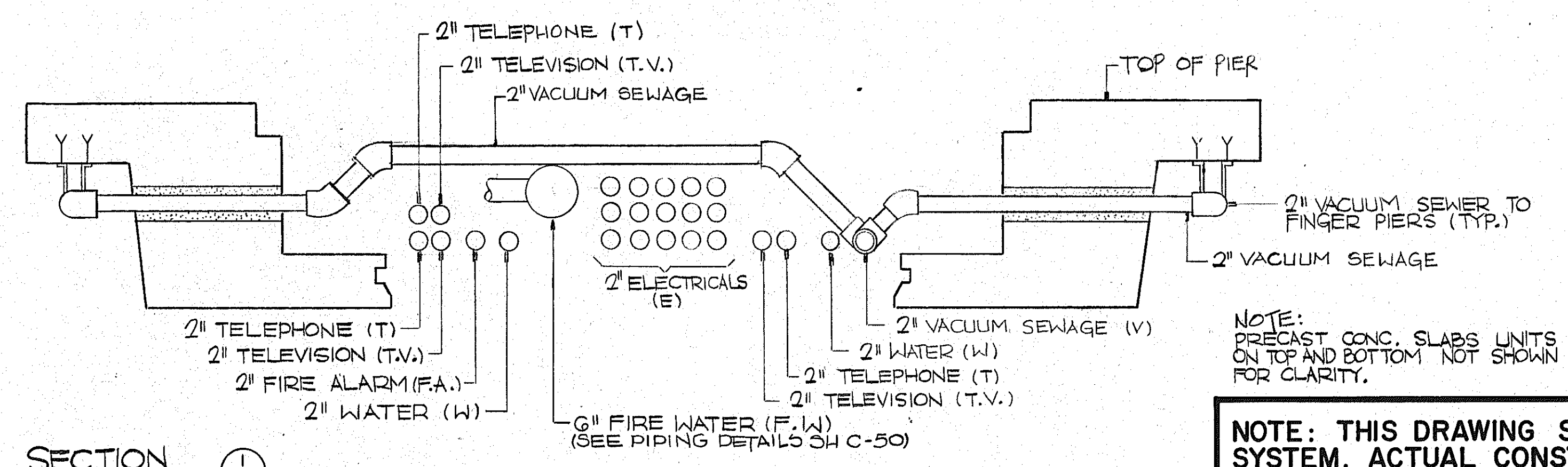
PIER "C" VACUUM SEWAGE PIPING LAYOUT
 1" = 20'



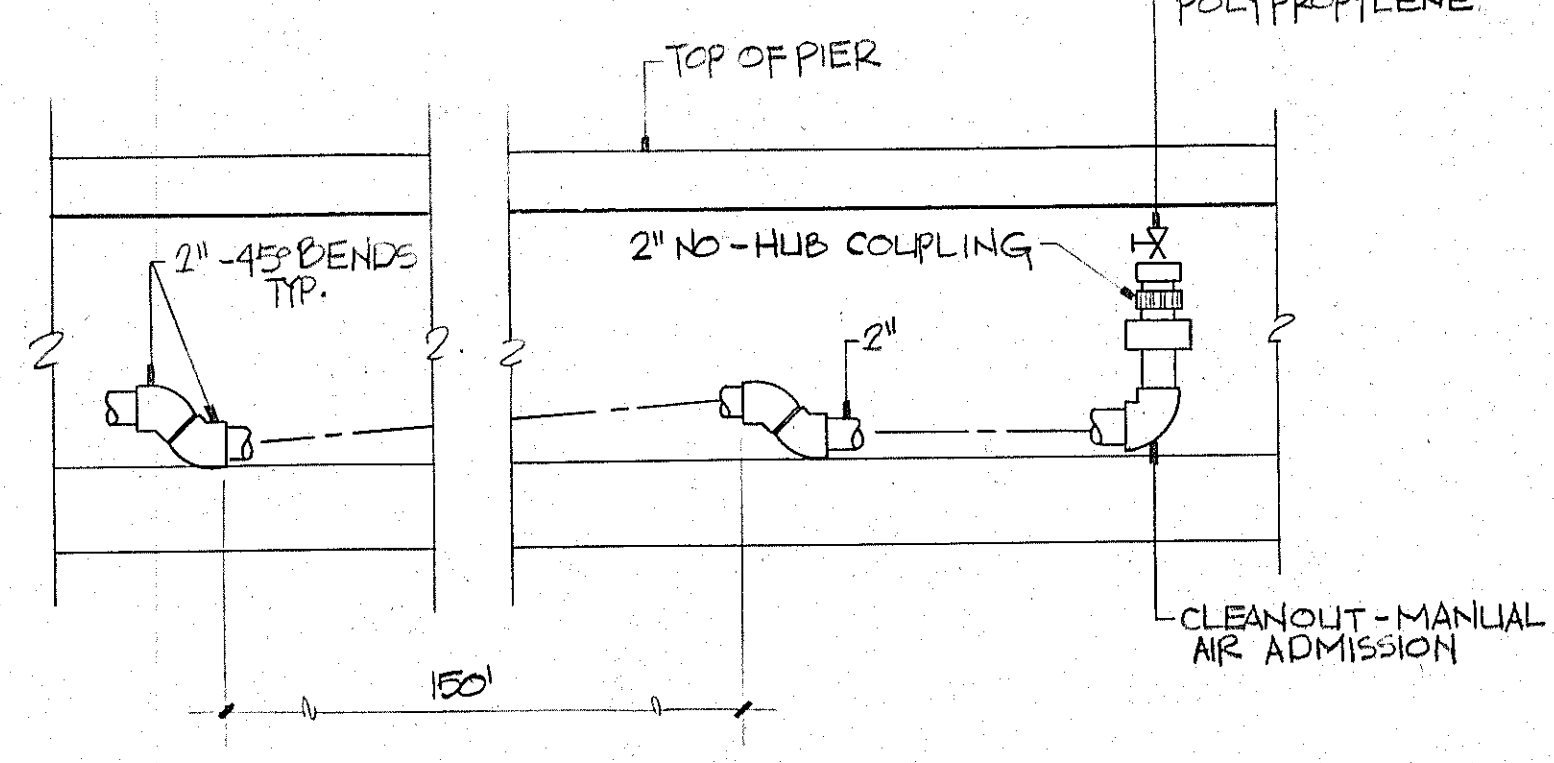
PIER "C" BLOW UP DETAIL
 1/4" = 1'-0"



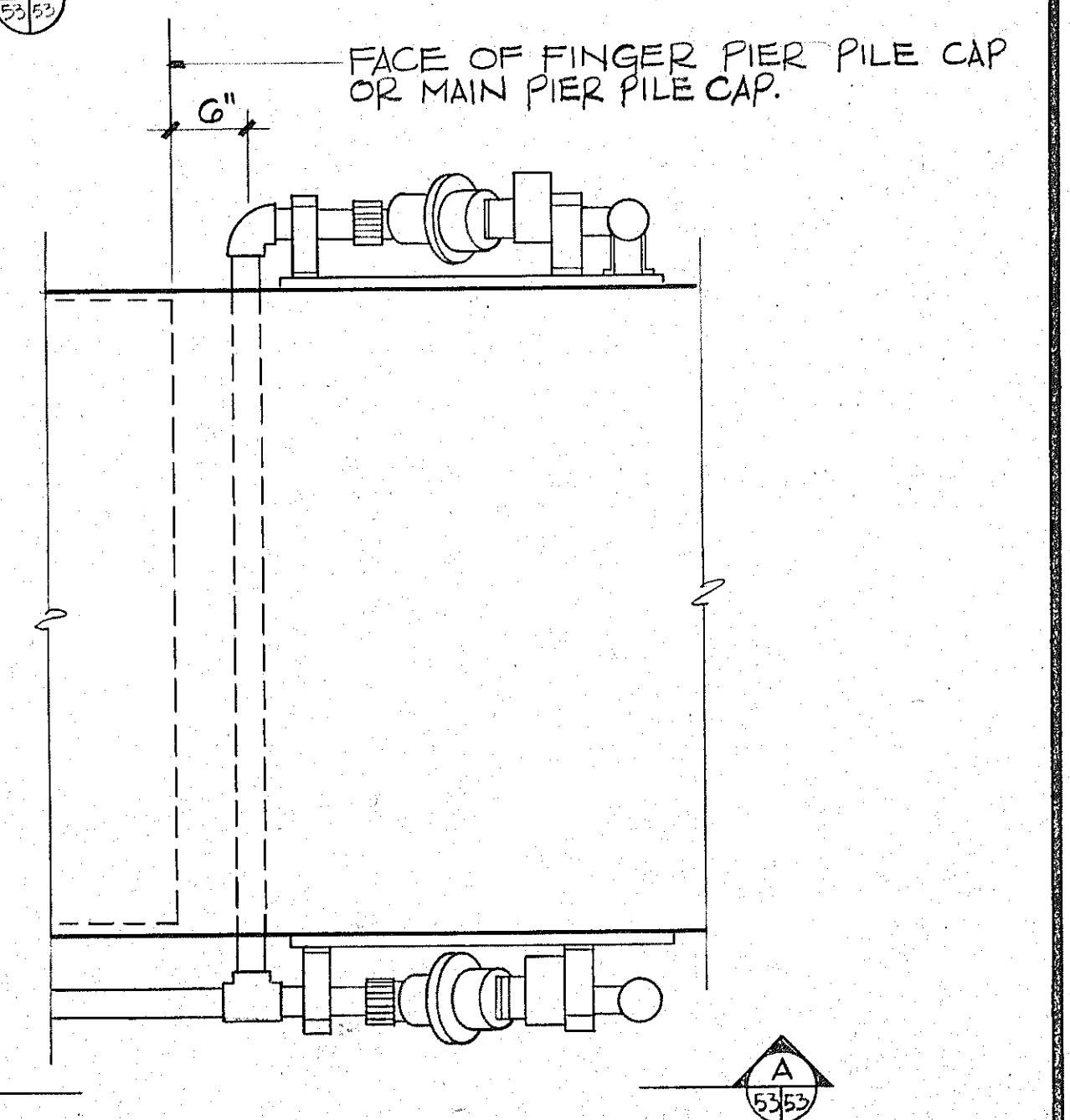
ELEVATION
 (N.T.S.)



SECTION
 1" = 1'-0"



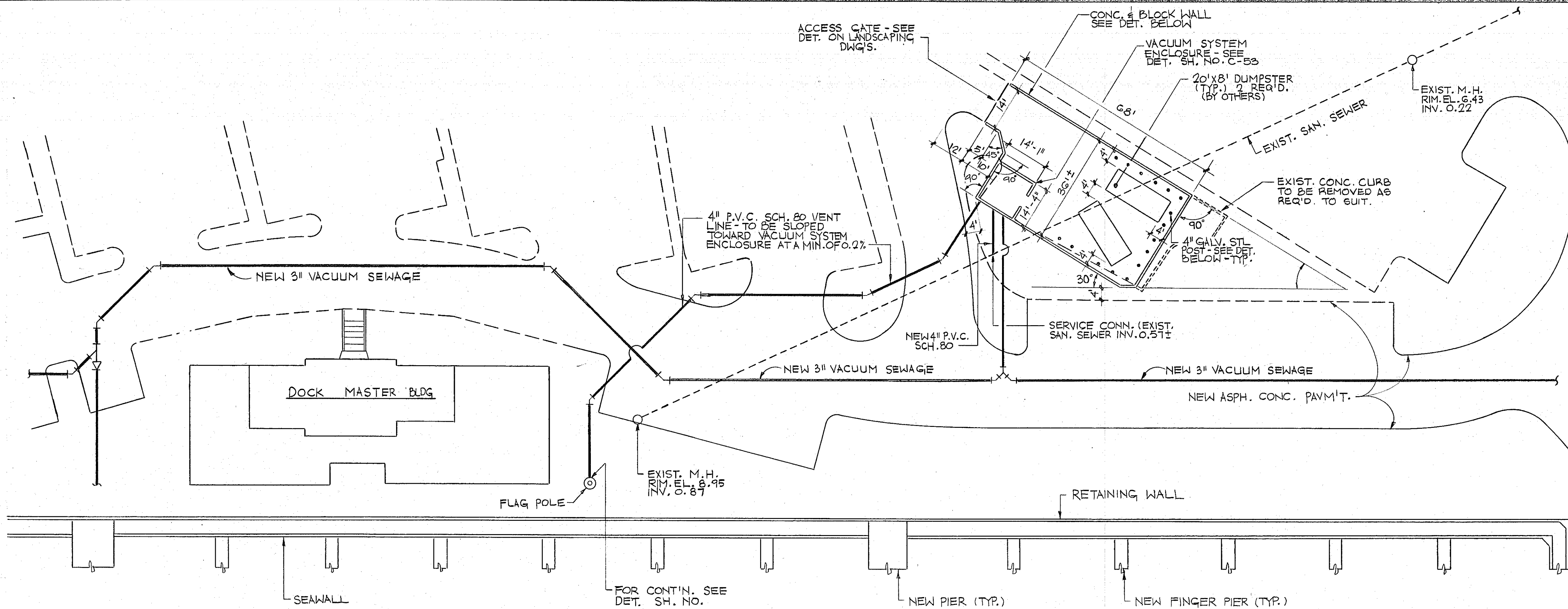
VACUUM SEWAGE TYPICAL VERTICAL LAYOUT DETAIL
 (N.T.S.)



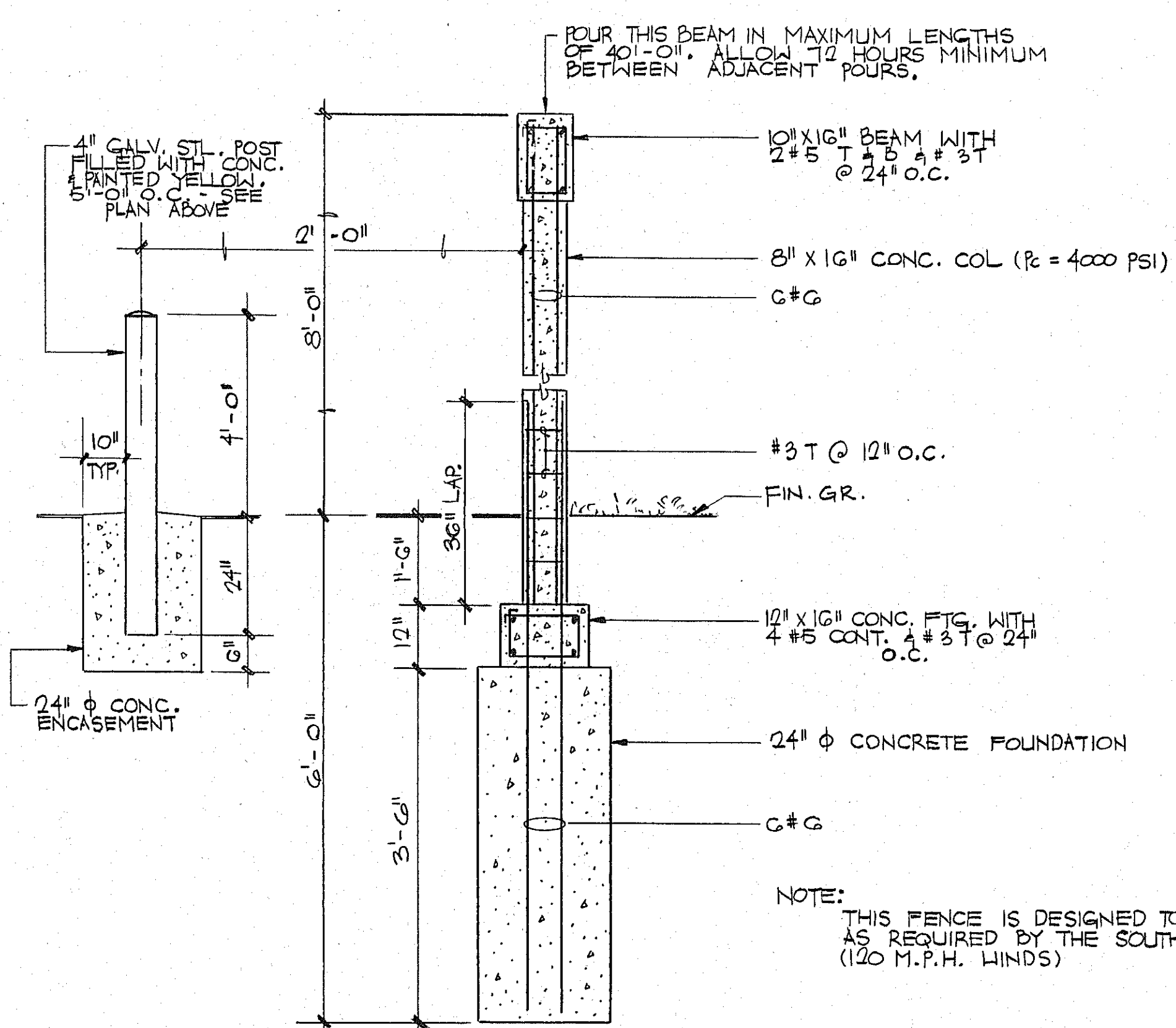
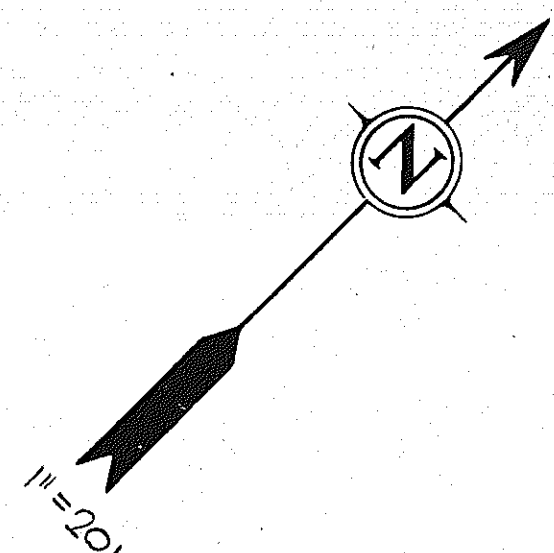
BLOWUP PLAN "A"
 (N.T.S.)

NOTE: THIS DRAWING SHOWS A CONCEPTUAL SCHEMATIC VACUUM SYSTEM. ACTUAL CONSTRUCTION DETAILS AND LAYOUT TO BE AS PER SYSTEM MANUFACTURER RECOMMENDATION.

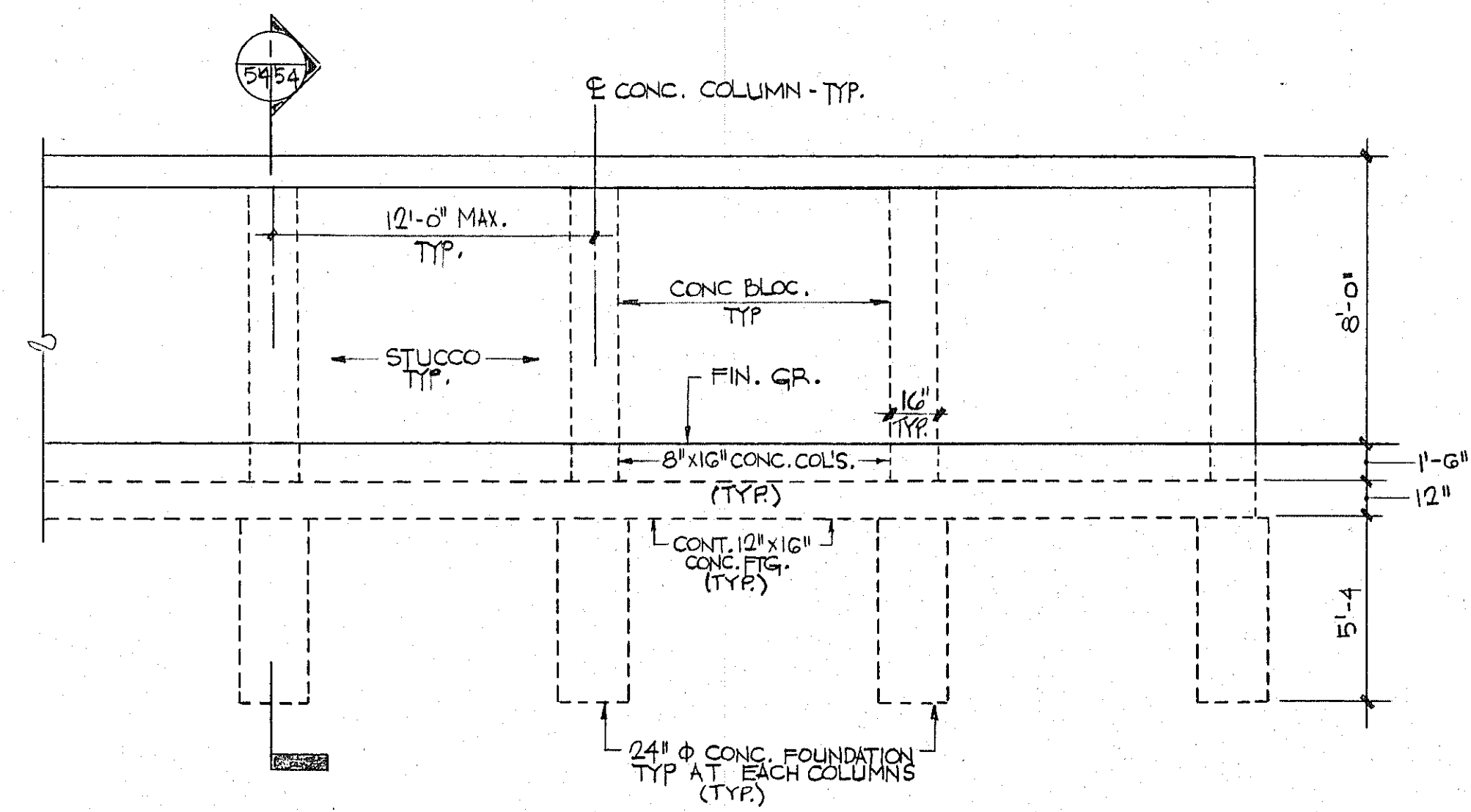
FOR CONTINUATION SEE LAND SIDE UTILITIES LAYOUT PLANS



FOR CONTINUATION SEE LAND SIDE UTILITIES LAYOUT PLANS



SECTION 1 N.T.S.

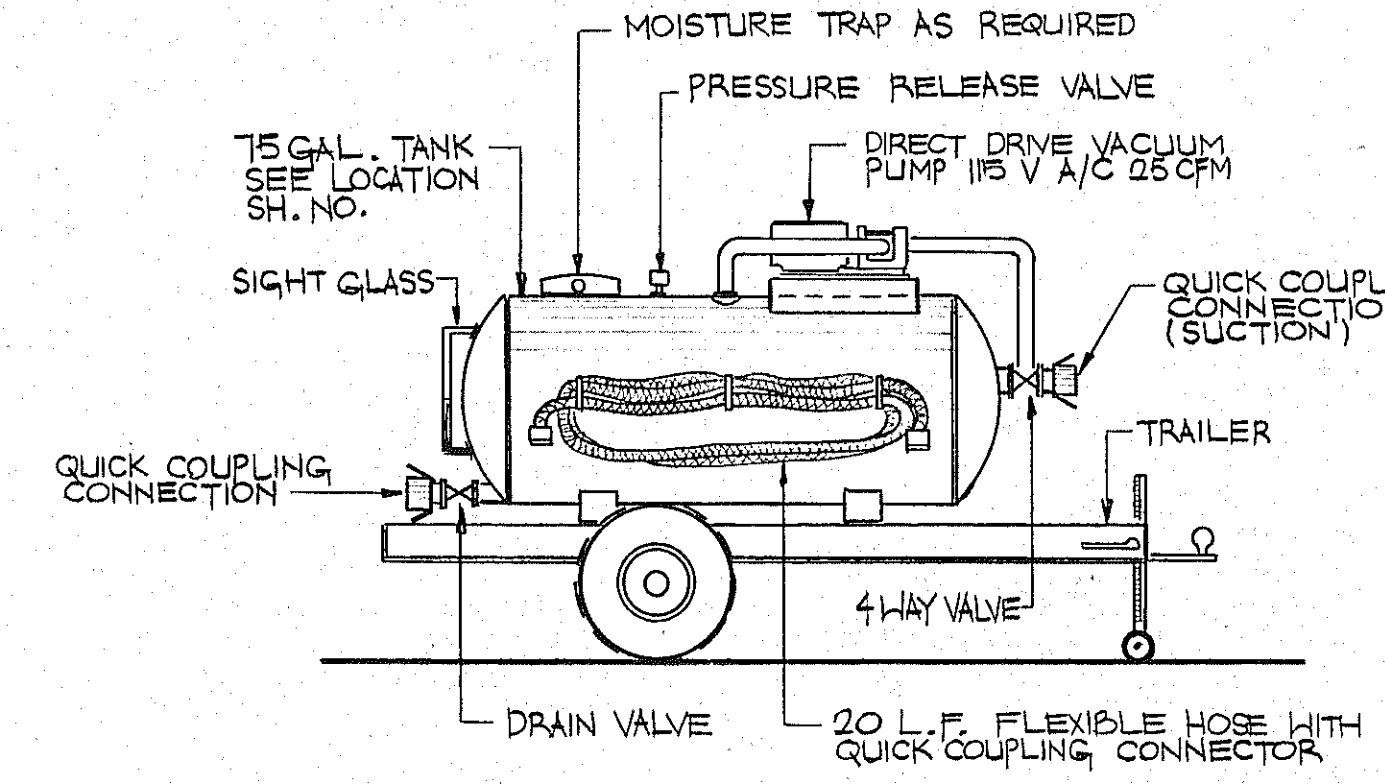
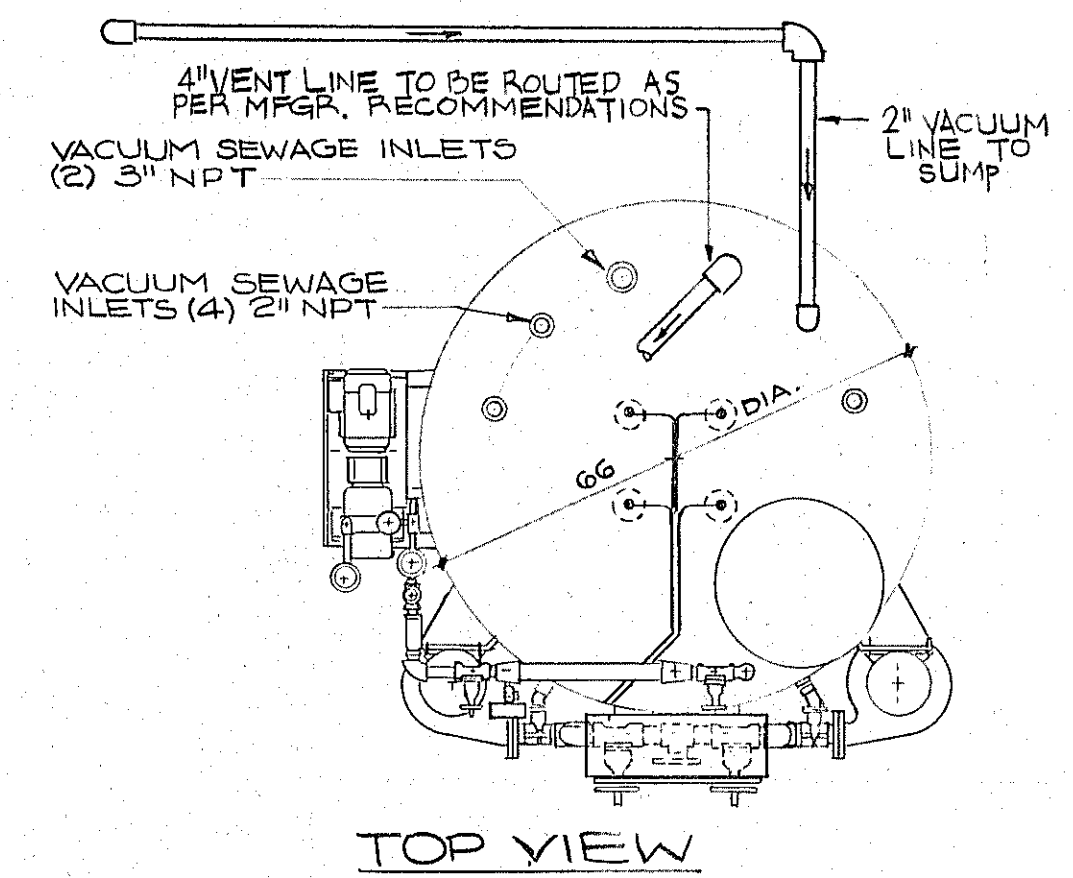
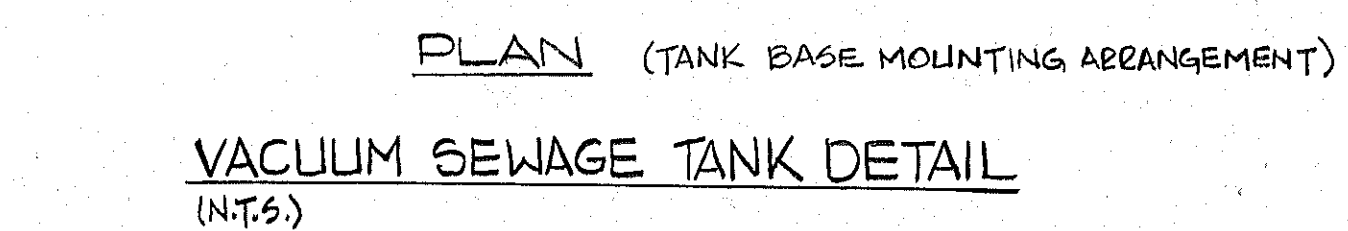
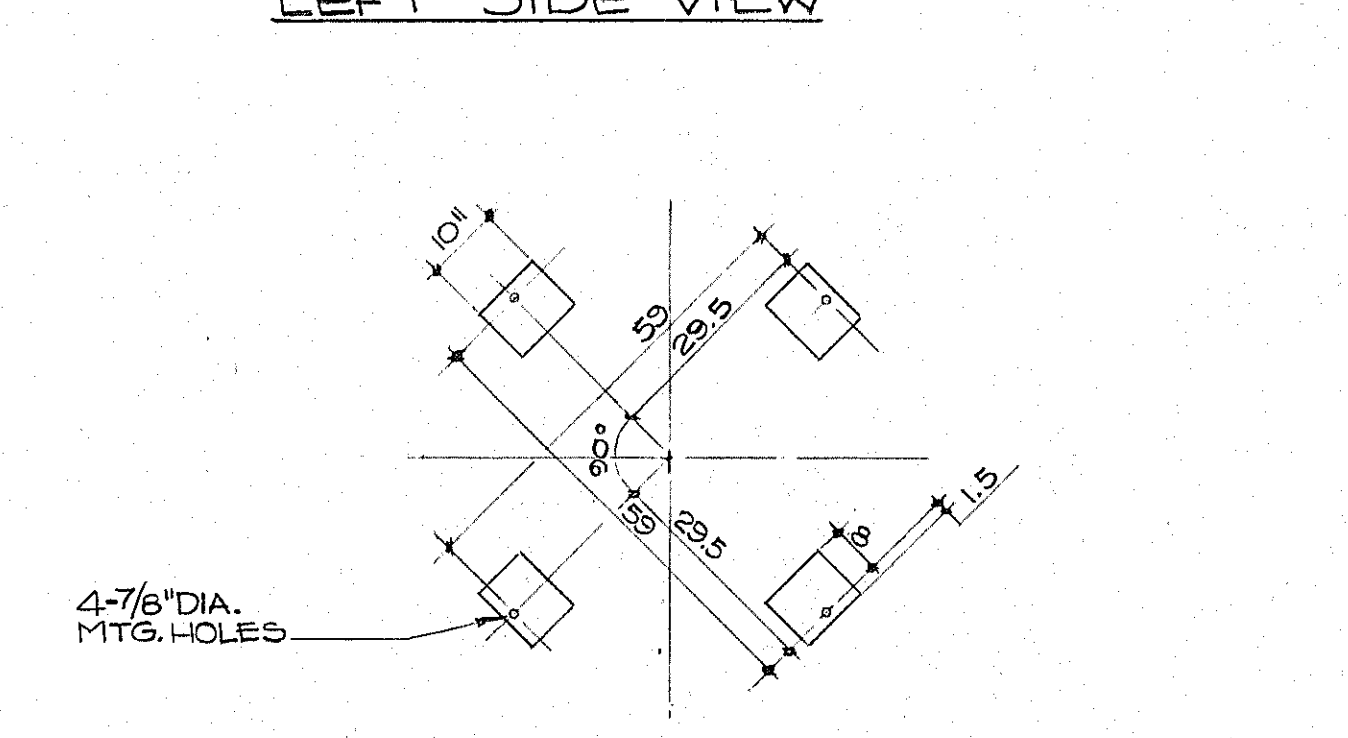
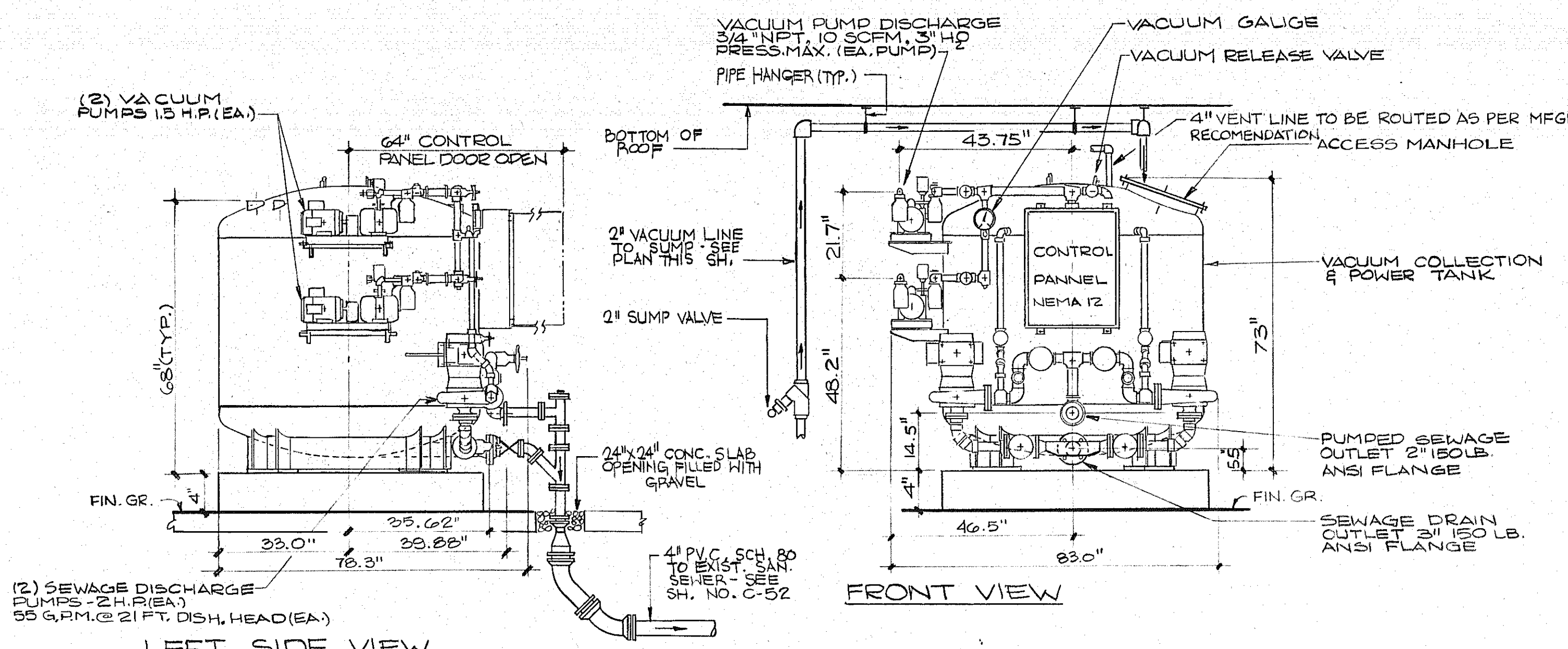


CONCRETE AND BLOCK WALL ELEVATION N.T.S.

- NOTES:
1. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING FOUNDATIONS.
 2. CONTRACTOR TO SUBMIT SHOP DWG'S. PRIOR TO CONSTRUCTION FOR APPROVAL.

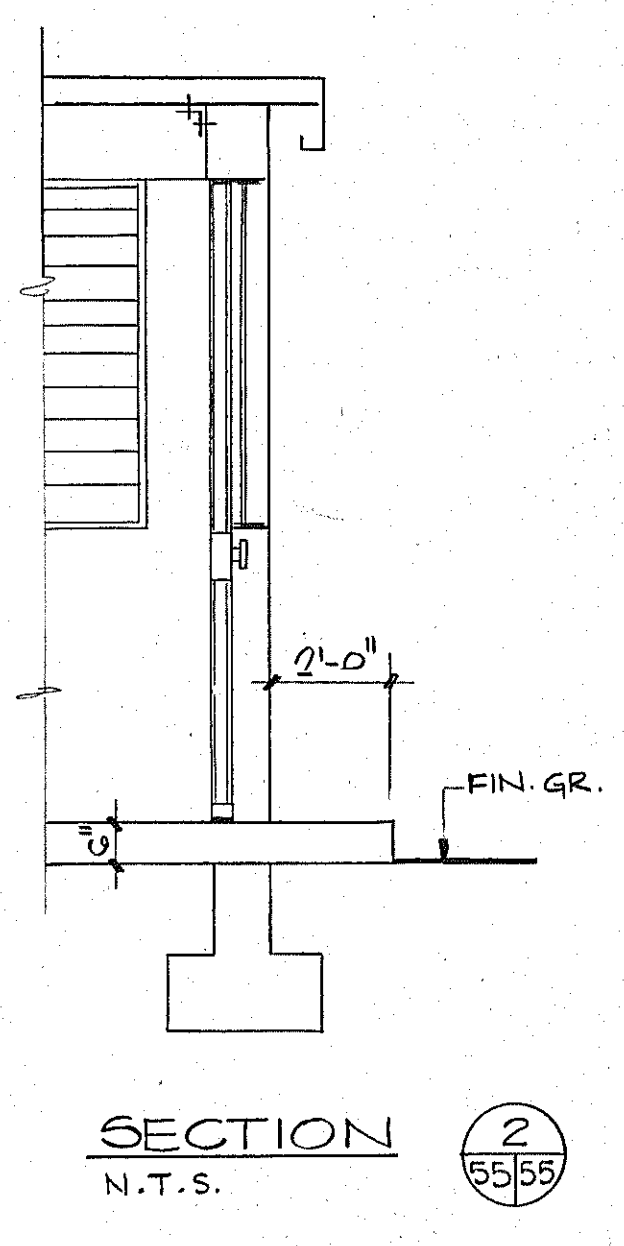
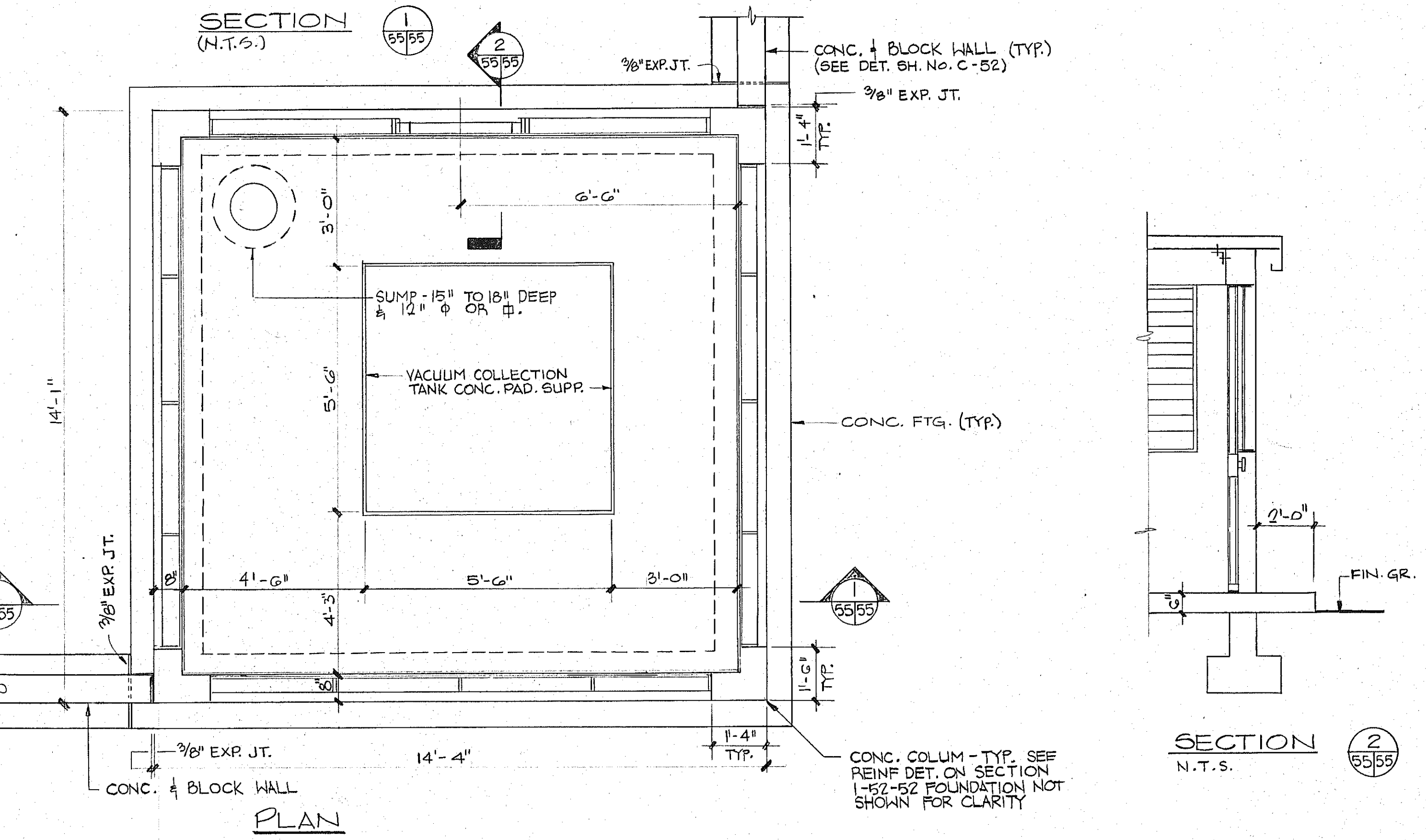
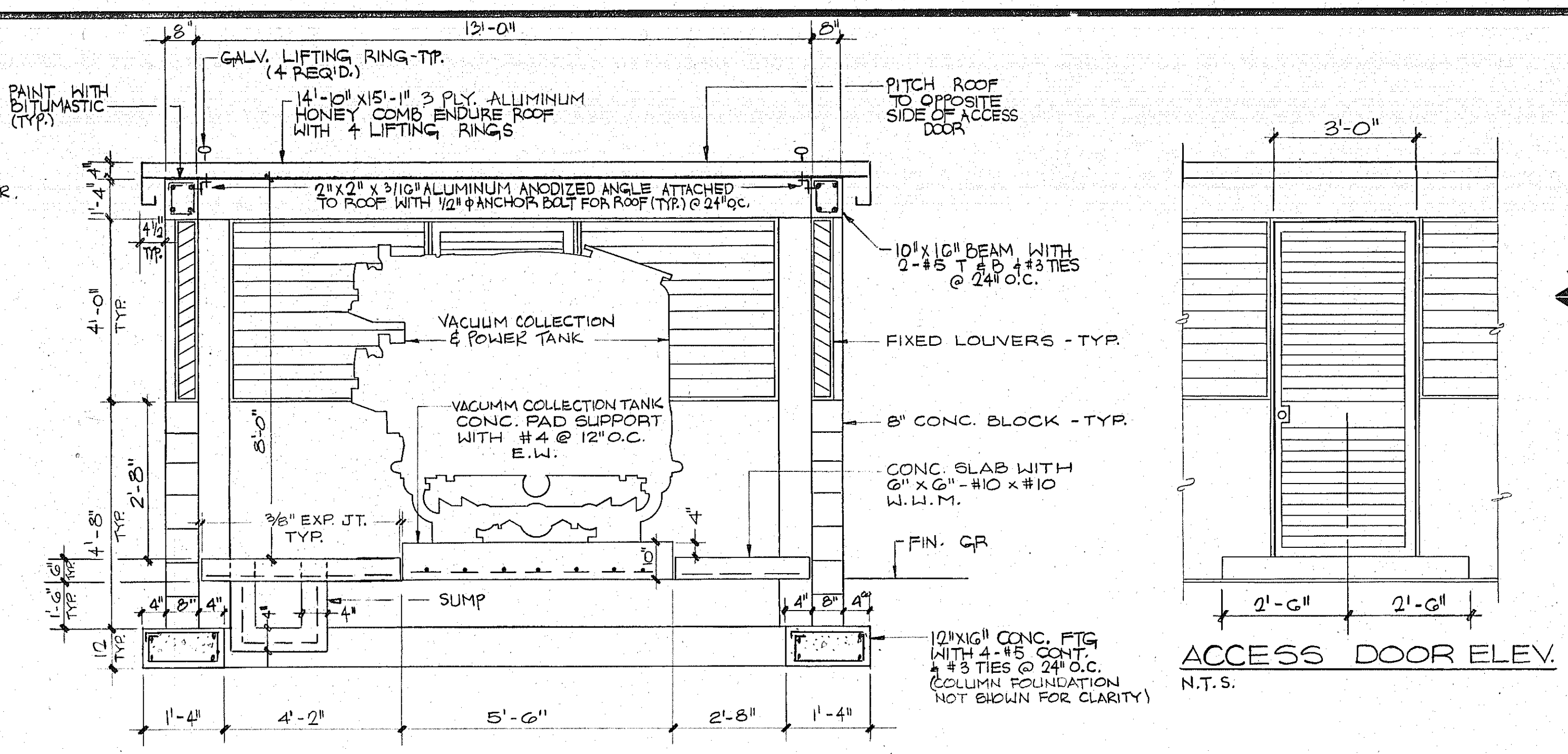
REVISIONS

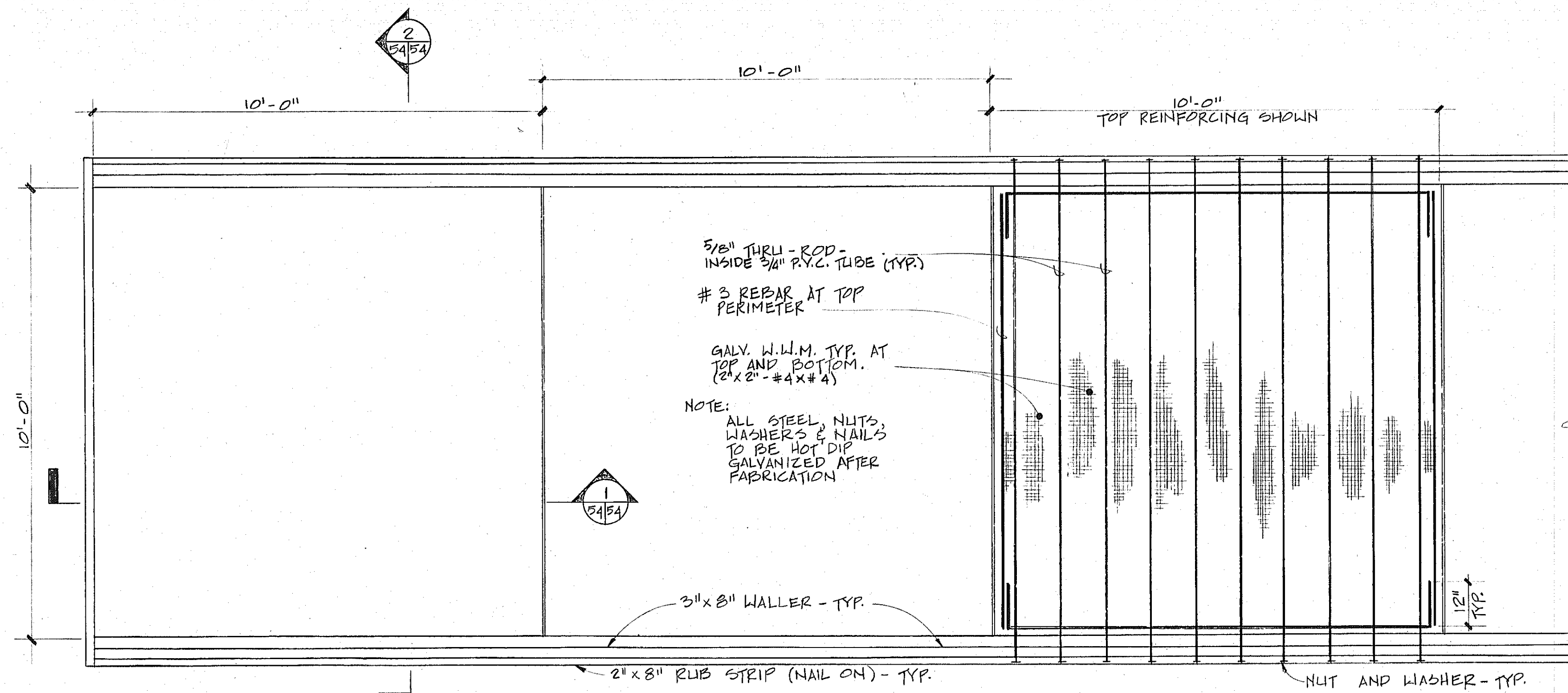
NO.	DATE	DESCRIPTION



NOTE:
VACUUM MANUFACTURER TO PROVIDE PORTABLE TRAILER MOUNTED VACUUM/PRESSURE STATION WITH MIN. HOLDING TANK CAPACITY OF 75 GAL. FOR THE PURPOSE OF EMPTYING BOAT HOLDING TANKS. EQUIPMENT SHALL BE CAPABLE OF BEING OPERATED IN MARINE ENVIRONMENT; ALL STEEL SHALL BE ALUMINIUM OR GALVANIZED STEEL FOR RUST PROTECTION.
SYSTEM SHALL OPERATE BY WAY OF A VACUUM PUMP FOR SUCTION AND BY PRESSURE DISCHARGE. PRESSURE DISPOSAL TO BE ACCOMPLISHED BY REVERSING FOUR WAY VALVE TO PRESSURIZE TANK AND DISPOSE OF SEWER DISCHARGE.
SCHEMATIC ELEVATION SHOWN IS INTENDED TO SHOW MINIMUM REQUIREMENTS SYSTEM SHALL BE BUILT AS PER VACUUM SYSTEM MANUFACTURERS RECOMMENDATION. SEE SPECIFICATIONS.

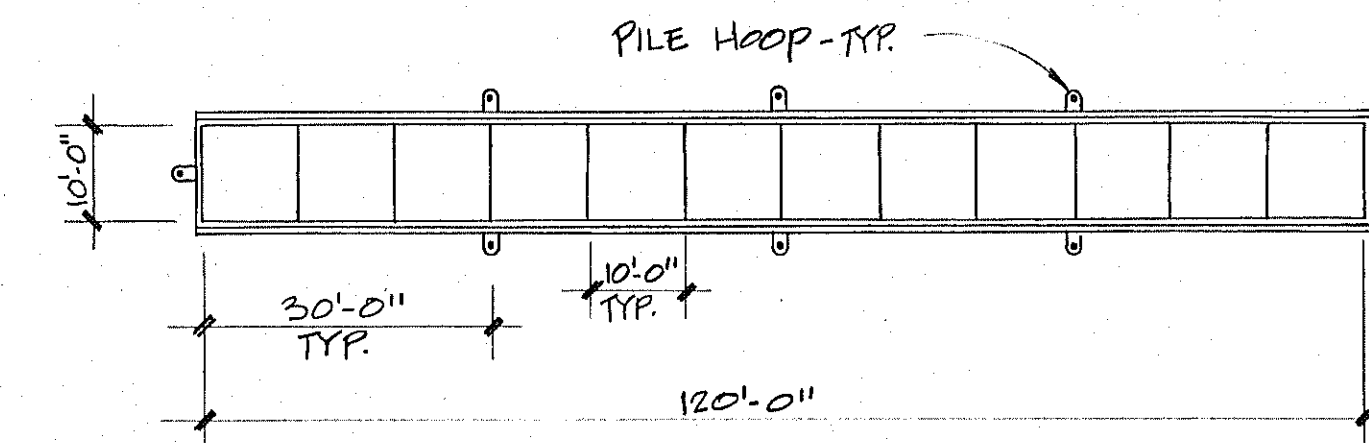
PORTABLE TRAILER MOUNTED VACUUM
N.T.S.





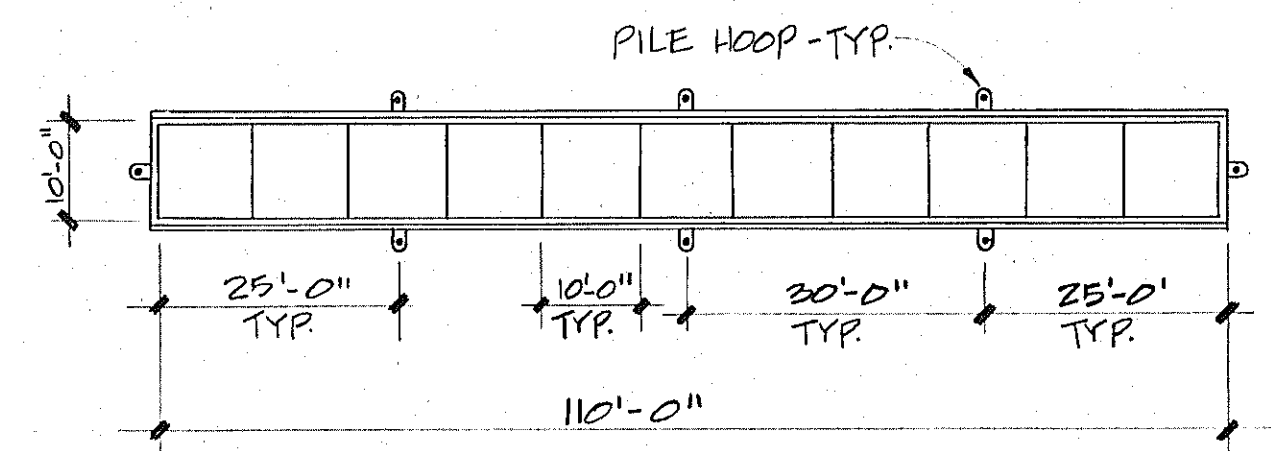
FLOATING DOCK PARTIAL PLAN (N.T.S.)

NOTE: THESE DETAILS SHOW A CONCEPTUAL SCHEMATIC DESIGN. CONTRACTOR TO SUBMIT SHOP DWG'S. FOR APPROVAL PRIOR TO CONSTRUCTION.

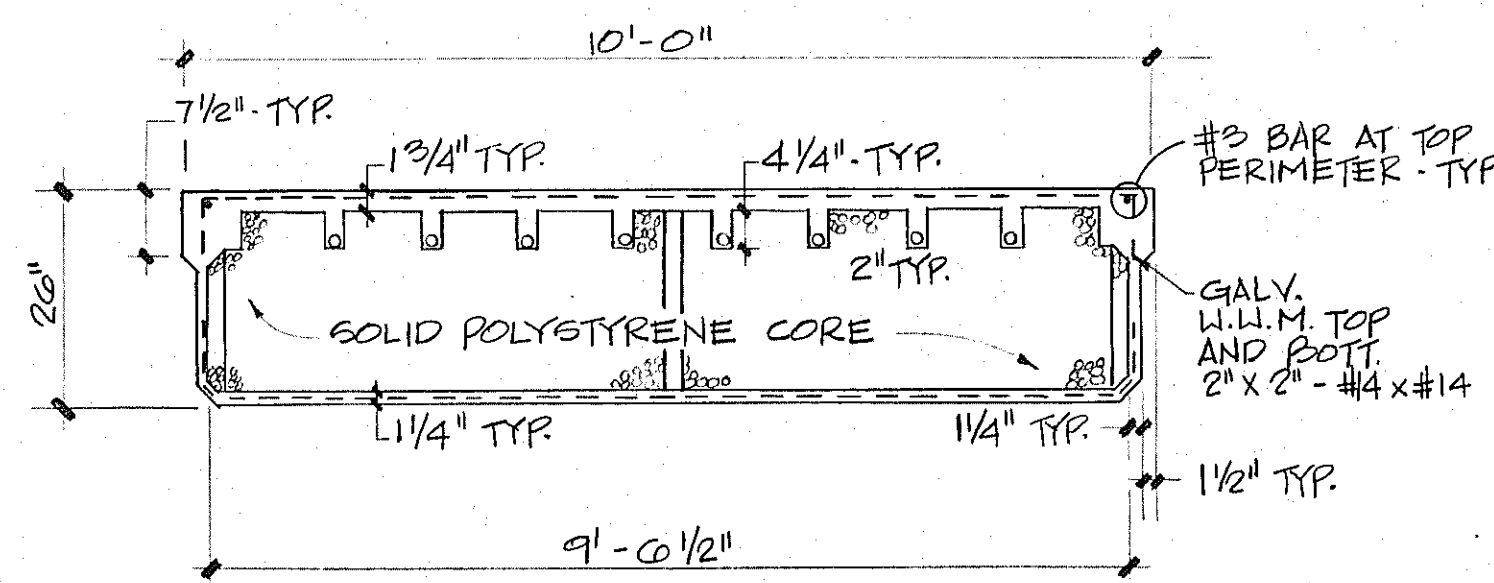


FLOATING DOCK No. 1 PLAN

NOTE: FOR LOCATIONS SEE SH. No.

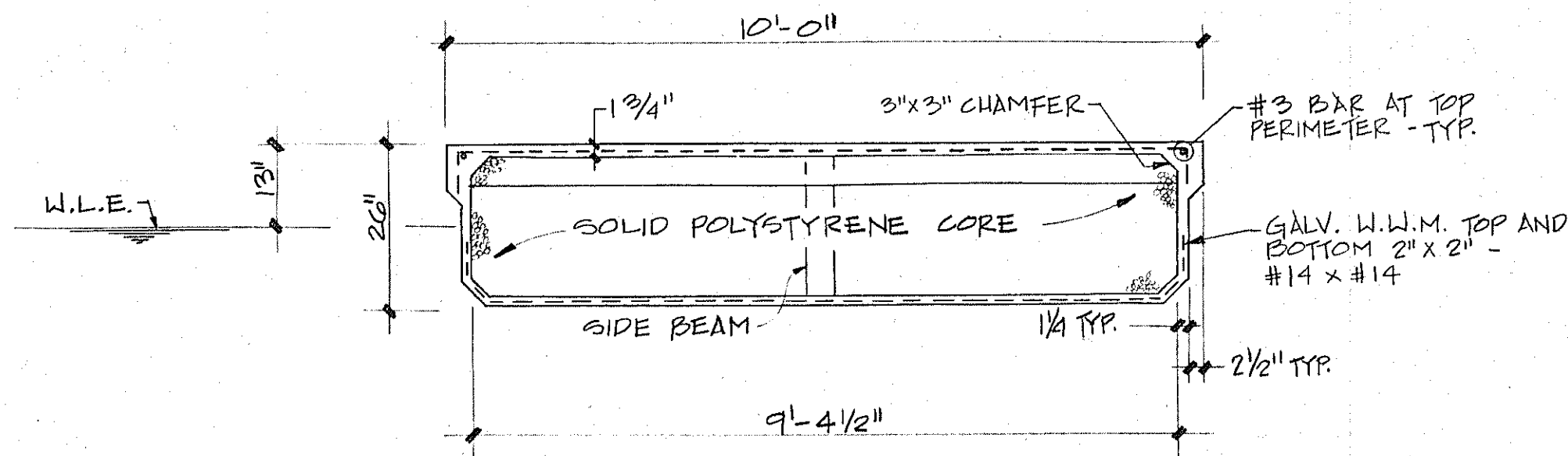


FLOATING DOCK No. 2 PLAN

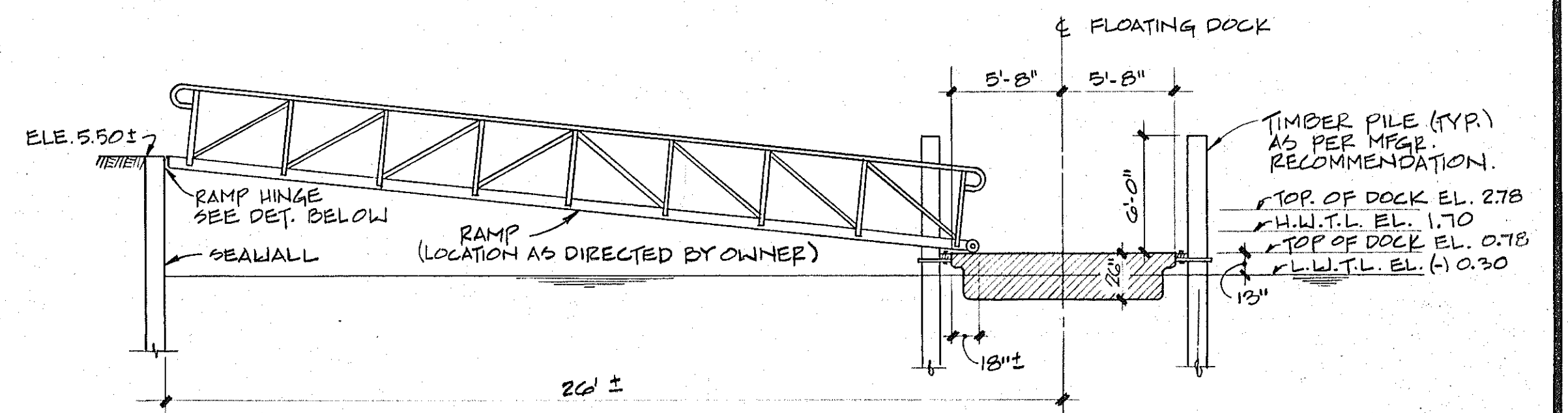


SECTION 1 (N.T.S.)

NOTE: TIMBER NOT SHOWN FOR CLARITY.

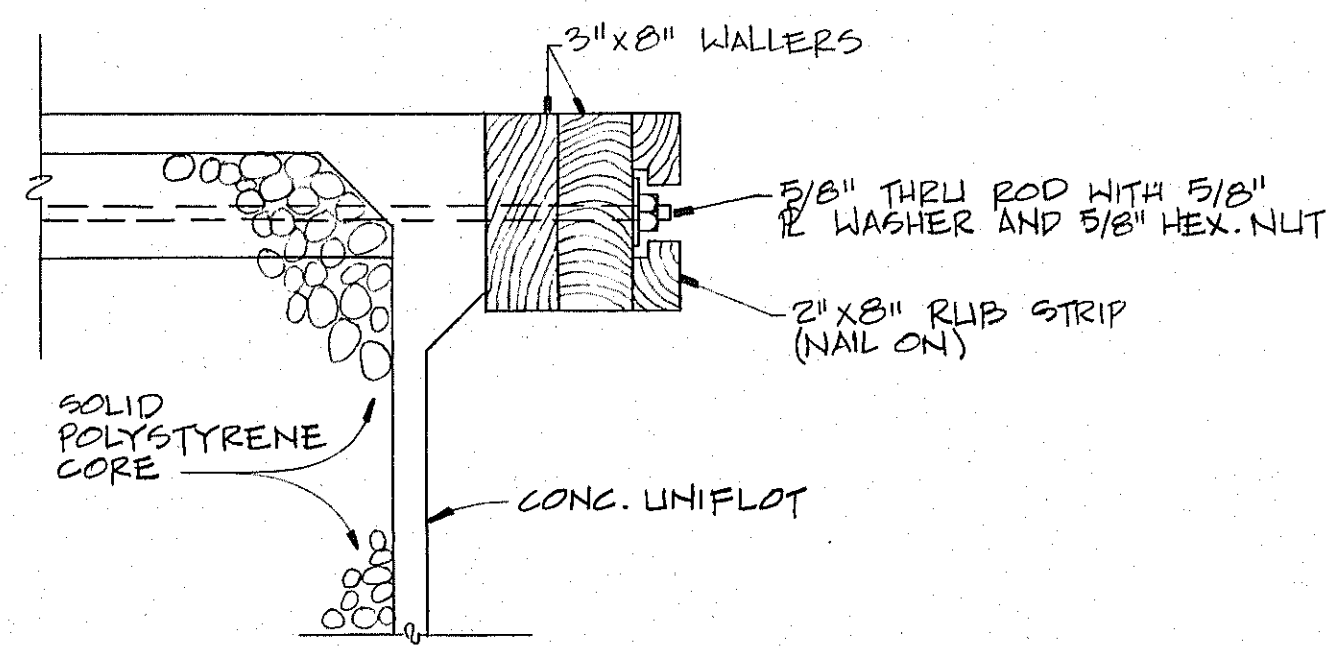


SECTION 2 (N.T.S.)

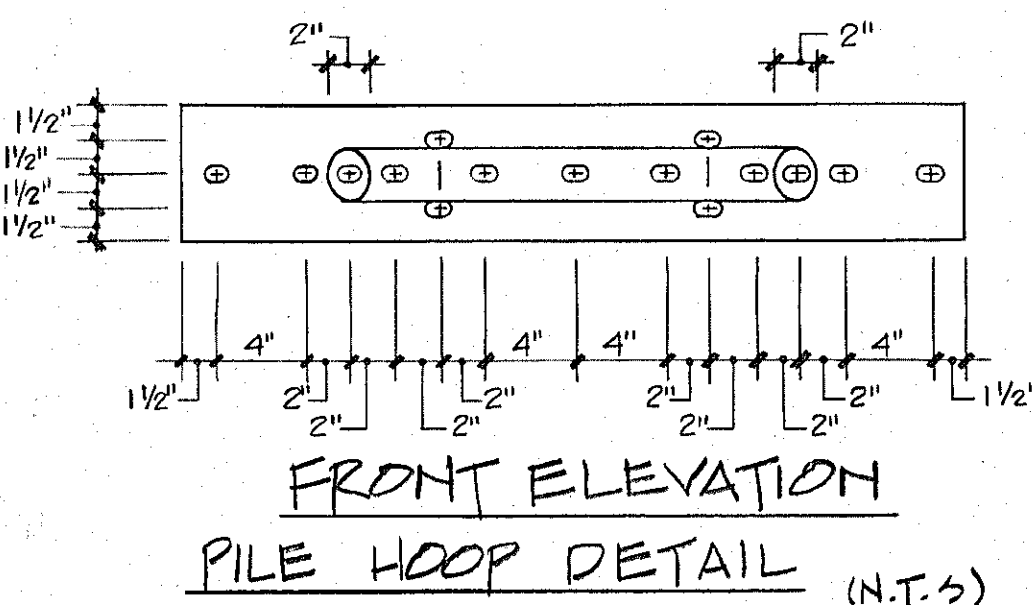
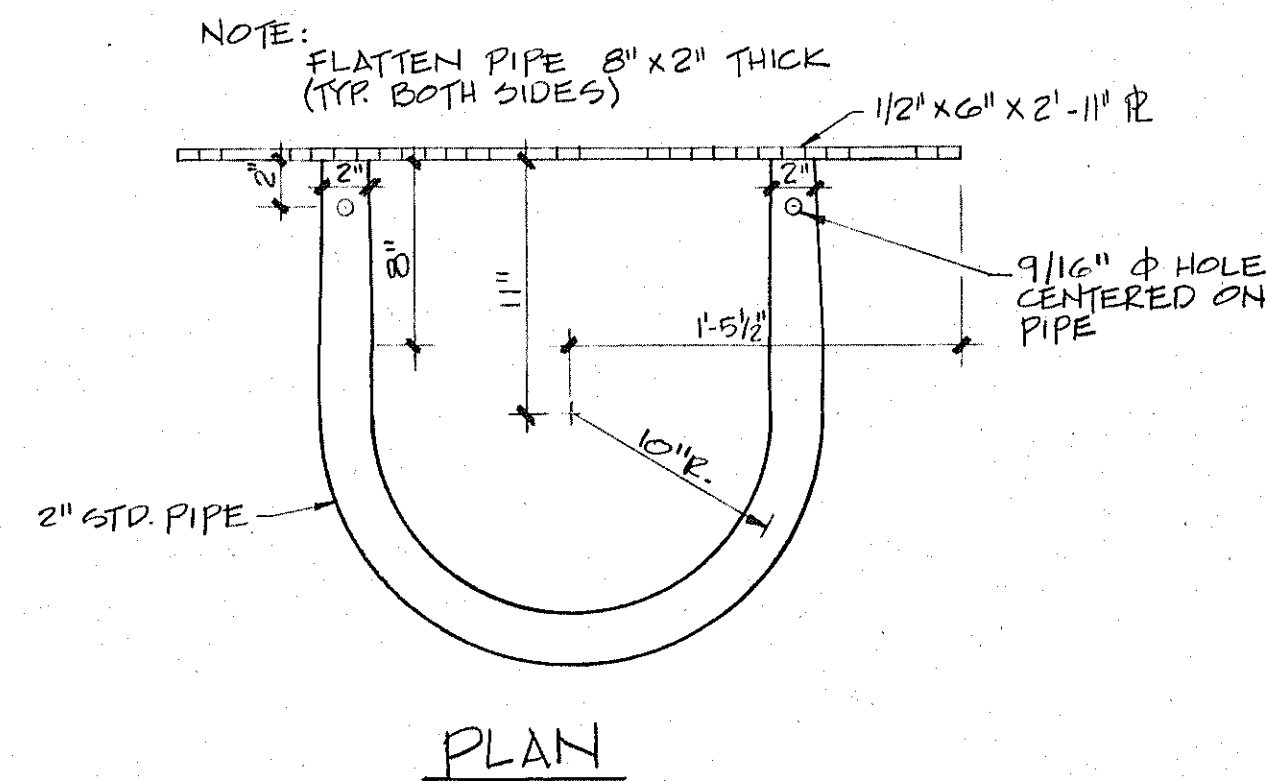


FLOATING DOCK RAMP SIDE VIEW (SEE RAMP DETAILS SH. No. C-43)

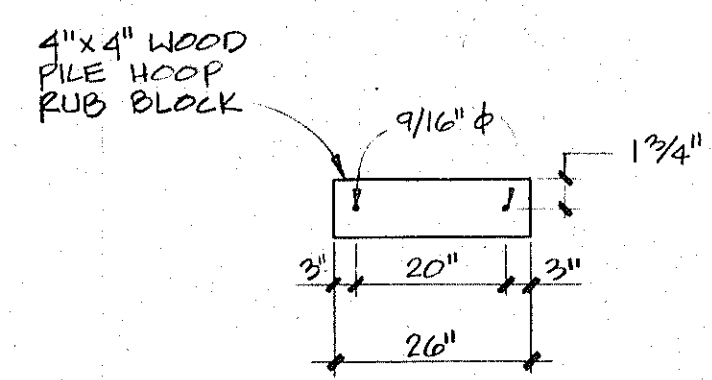
NOTE: RAMP LENGTH AS PER MFG. RECOMMENDATION



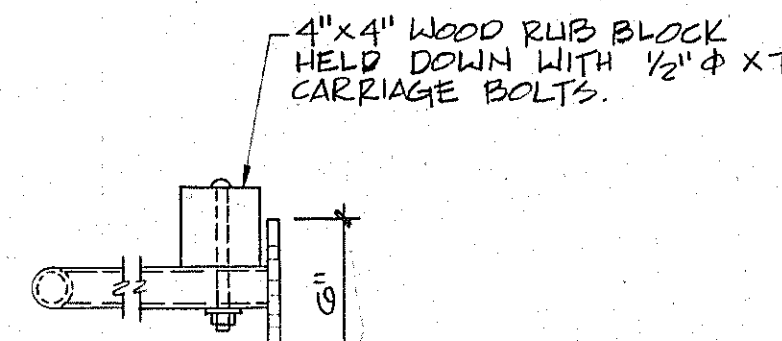
RUB STRIP DETAIL (N.T.S.)



FRONT ELEVATION PILE HOOP DETAIL (N.T.S.)

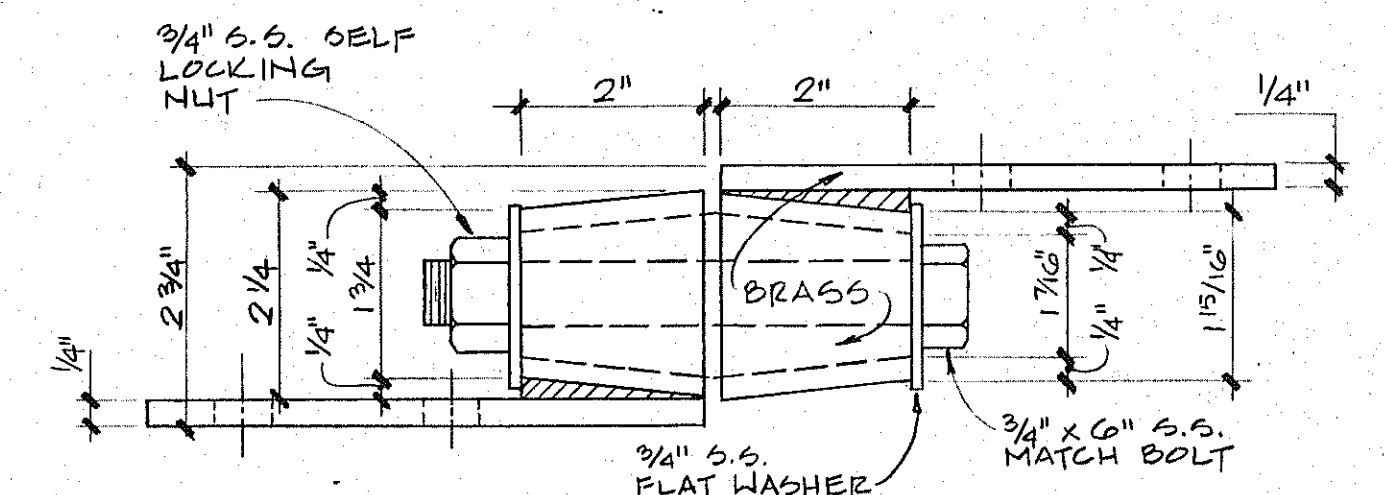


PILE HOOP WOOD RUB BLOCK

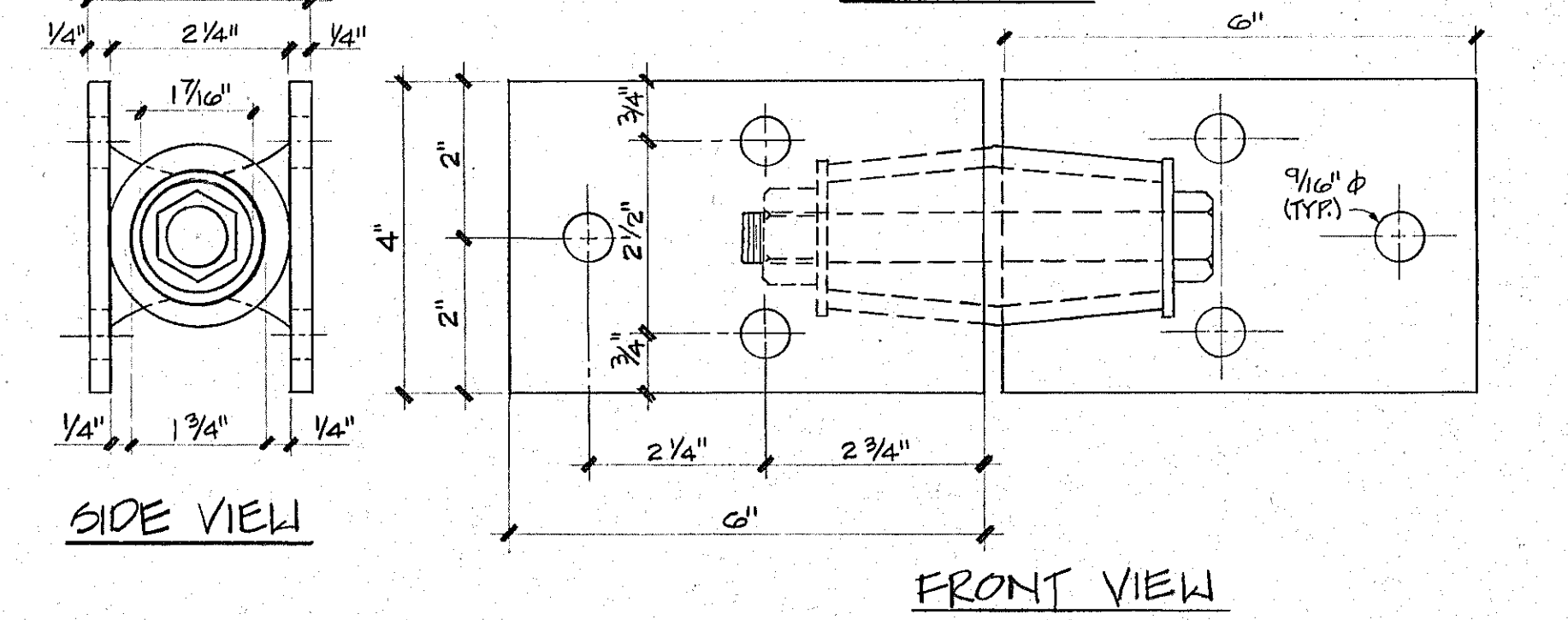


RIGHT ELEVATION

NOTE: ALL STEEL TO BE HOT DIP GALV. AFTER FAB.



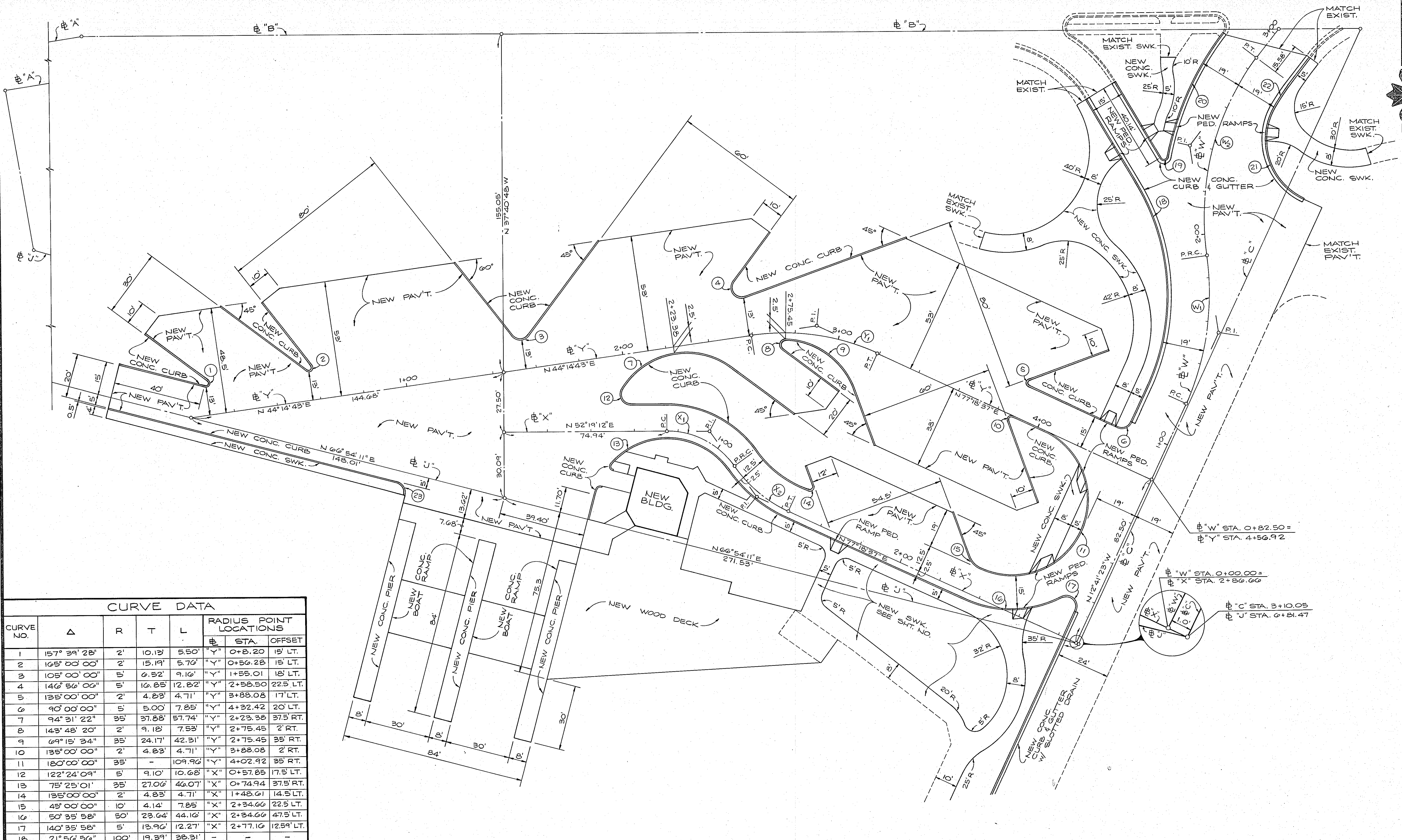
TOP VIEW



FRONT VIEW

RAMP HINGE DETAIL (N.T.S.)

JOB No. B 3202
FILE ARCH. 3-28



CURVE DATA

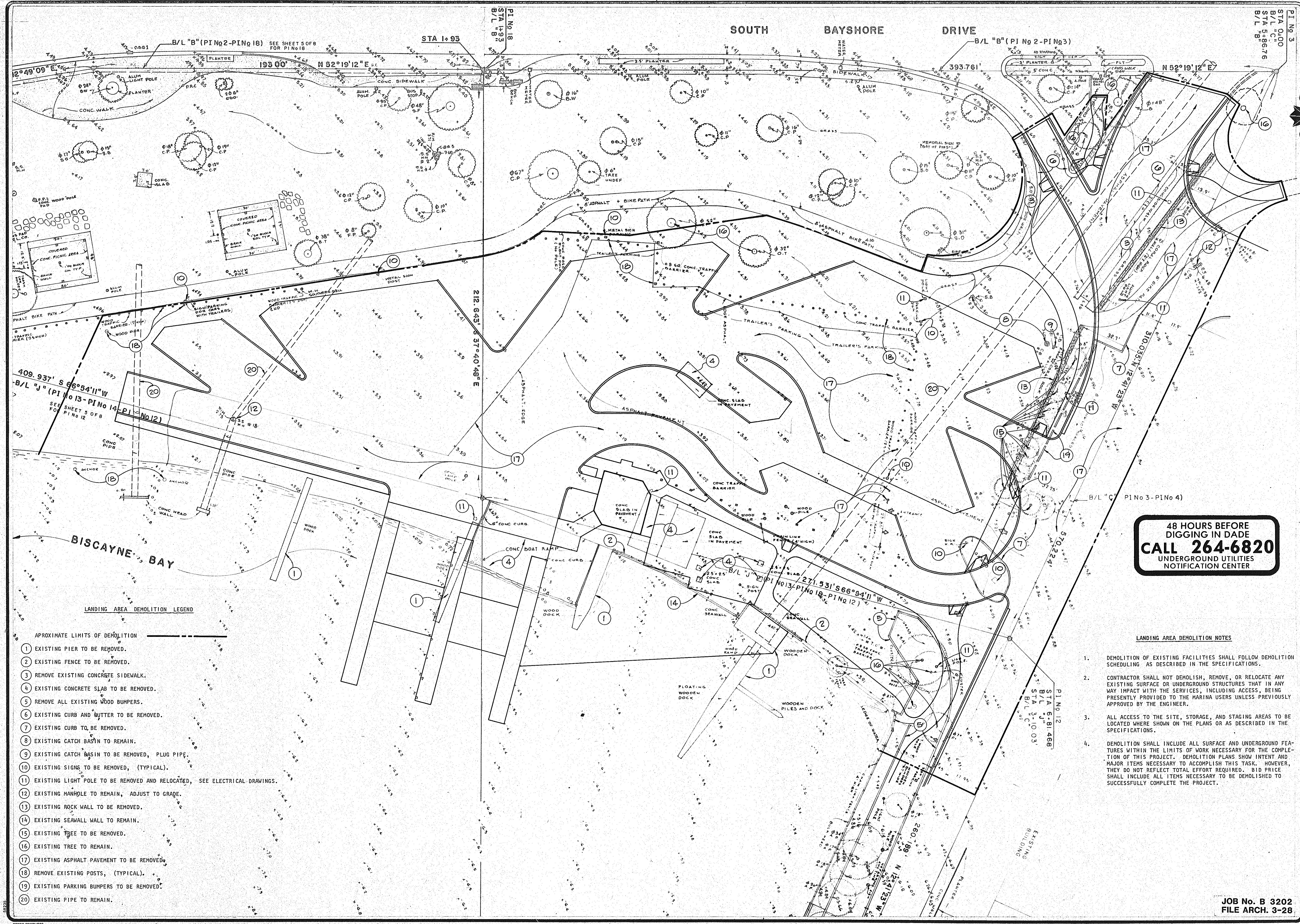
CURVE NO.	Δ	R	T	L	RADIUS POINT LOCATIONS		
					℄	STA.	OFFSET
1	157° 39' 28"	2'	10.12'	5.50'	"Y"	0+8.20	15' LT.
2	165° 00' 00"	2'	15.19'	5.70'	"Y"	0+56.28	15' LT.
3	105° 00' 00"	5'	6.52'	9.16'	"Y"	1+55.01	18' LT.
4	146° 56' 00"	5'	16.85'	12.82'	"Y"	2+58.50	22.5' LT.
5	135° 00' 00"	2'	4.83'	4.71'	"Y"	3+88.08	17' LT.
6	90° 00' 00"	5'	5.00'	7.85'	"Y"	4+32.42	20' LT.
7	94° 31' 22"	35'	37.88'	57.74'	"Y"	2+23.38	37.5' RT.
8	143° 48' 20"	2'	9.18'	7.53'	"Y"	2+75.45	2' RT.
9	69° 15' 34"	35'	24.17'	42.31'	"Y"	2+75.45	35' RT.
10	135° 00' 00"	2'	4.83'	4.71'	"Y"	3+88.08	2' RT.
11	180° 00' 00"	35'	-	109.96'	"Y"	4+02.92	35' RT.
12	122° 24' 09"	5'	9.10'	10.68'	"X"	0+57.85	17.5' LT.
13	75° 25' 01"	35'	27.06'	46.07'	"X"	0+74.94	37.5' RT.
14	135° 00' 00"	2'	4.83'	4.71'	"X"	1+48.61	14.5' LT.
15	45° 00' 00"	10'	4.14'	7.85'	"X"	2+34.66	22.5' LT.
16	50° 35' 58"	50'	23.64'	44.16'	"X"	2+34.66	47.5' LT.
17	140° 35' 58"	5'	13.96'	12.27'	"X"	2+77.16	12.59' LT.
18	21° 56' 56"	100'	19.39'	38.31'	-	-	-
19	137° 49' 19"	2'	5.19'	4.81'	"X"	2+31.96	2' LT.
20	26° 00' 00"	138'	31.86'	62.62'	-	-	-
21	95° 07' 24"	30'	32.81'	49.81'	"X"	2+70.24	49' RT.
22	7° 33' 59"	100'	6.61'	13.21'	-	-	-
23	90° 00' 00"	4.5'	4.50'	7.07'	-	-	-

℄ CURVE DATA

CURVE NO.	Δ	R	T	L	STATIONING		
W1	33° 32' 22"	119'	33.86'	69.66'	1+56.15 (P.I.)	1+20.29 (P.C.)	1+89.95 (P.R.C.)
W2	46° 13' 45"	119'	50.79'	96.01'	2+40.74 (P.I.)	1+89.95 (P.R.C.)	2+85.96 (P.T.)
X1	54° 59' 15"	37.5'	19.52'	35.99'	0+94.46 (P.I.)	0+74.94 (P.C.)	1+10.93 (P.R.C.)
X2	30° 00' 00"	62.5'	16.75'	32.73'	1+27.68 (P.I.)	1+10.93 (P.R.C.)	1+43.66 (P.T.)
Y1	33° 03' 54"	102.5'	30.43'	59.15'	2+90.12 (P.I.)	2+59.70 (P.C.)	3+18.85 (P.T.)

REVISIONS

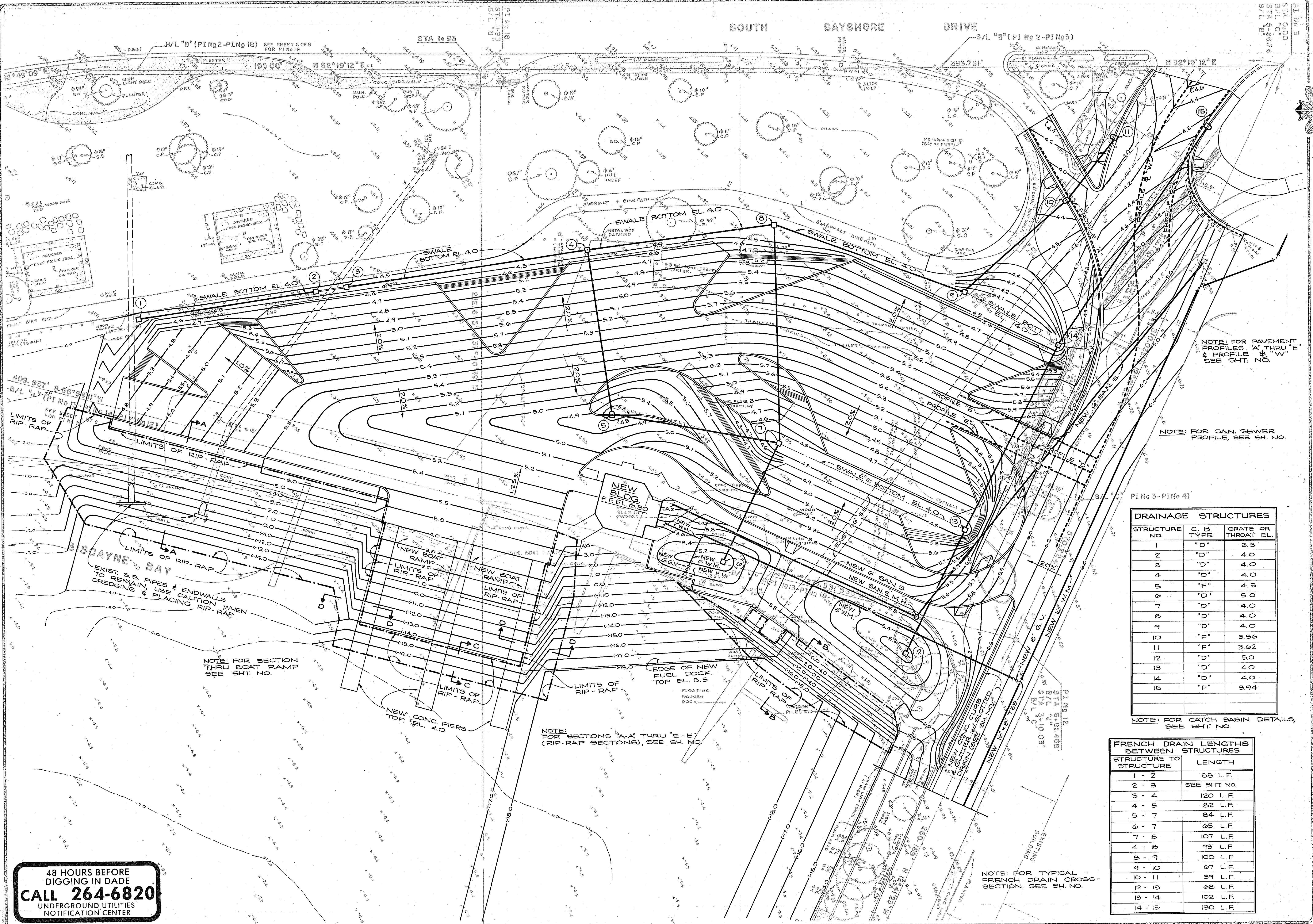
NO.	DATE	DESCRIPTION



48 HOURS BEFORE DIGGING IN DADE
CALL 264-6820
 UNDERGROUND UTILITIES
 NOTIFICATION CENTER

- LANDING AREA DEMOLITION NOTES
- DEMOLITION OF EXISTING FACILITIES SHALL FOLLOW DEMOLITION SCHEDULING AS DESCRIBED IN THE SPECIFICATIONS.
 - CONTRACTOR SHALL NOT DEMOLISH, REMOVE, OR RELOCATE ANY EXISTING SURFACE OR UNDERGROUND STRUCTURES THAT IN ANY WAY IMPACT WITH THE SERVICES, INCLUDING ACCESS, BEING PRESENTLY PROVIDED TO THE MARINA USERS UNLESS PREVIOUSLY APPROVED BY THE ENGINEER.
 - ALL ACCESS TO THE SITE, STORAGE, AND STAGING AREAS TO BE LOCATED WHERE SHOWN ON THE PLANS OR AS DESCRIBED IN THE SPECIFICATIONS.
 - DEMOLITION SHALL INCLUDE ALL SURFACE AND UNDERGROUND FEATURES WITHIN THE LIMITS OF WORK NECESSARY FOR THE COMPLETION OF THIS PROJECT. DEMOLITION PLANS SHOW INTENT AND MAJOR ITEMS NECESSARY TO ACCOMPLISH THIS TASK. HOWEVER, THEY DO NOT REFLECT TOTAL EFFORT REQUIRED. BID PRICE SHALL INCLUDE ALL ITEMS NECESSARY TO BE DEMOLISHED TO SUCCESSFULLY COMPLETE THE PROJECT.

- LANDING AREA DEMOLITION LEGEND
- APPROXIMATE LIMITS OF DEMOLITION
- EXISTING PIER TO BE REMOVED.
 - EXISTING FENCE TO BE REMOVED.
 - REMOVE EXISTING CONCRETE SIDEWALK.
 - EXISTING CONCRETE SLAB TO BE REMOVED.
 - REMOVE ALL EXISTING WOOD BUMPERS.
 - EXISTING CURB AND BUTTER TO BE REMOVED.
 - EXISTING CURB TO BE REMOVED.
 - EXISTING CATCH BASIN TO REMAIN.
 - EXISTING CATCH BASIN TO BE REMOVED, PLUG PIPE.
 - EXISTING SIGNS TO BE REMOVED, (TYPICAL).
 - EXISTING LIGHT POLE TO BE REMOVED AND RELOCATED, SEE ELECTRICAL DRAWINGS.
 - EXISTING MANHOLE TO REMAIN, ADJUST TO GRADE.
 - EXISTING ROCK WALL TO BE REMOVED.
 - EXISTING SEAWALL WALL TO REMAIN.
 - EXISTING TREE TO BE REMOVED.
 - EXISTING TREE TO REMAIN.
 - EXISTING ASPHALT PAVEMENT TO BE REMOVED.
 - REMOVE EXISTING POSTS, (TYPICAL).
 - EXISTING PARKING BUMPERS TO BE REMOVED.
 - EXISTING PIPE TO REMAIN.



NOTE: FOR PAVEMENT PROFILES "A" THRU "E" & PROFILE "W" SEE SHT. NO.

NOTE: FOR SAN. SEWER PROFILE, SEE SH. NO.

NOTE: FOR SECTION THRU BOAT RAMP SEE SHT. NO.

NOTE: FOR SECTIONS "A-A" THRU "E-E" (RIP-RAP SECTIONS), SEE SH. NO.

NOTE: FOR TYPICAL FRENCH DRAIN CROSS-SECTION, SEE SH. NO.

DRAINAGE STRUCTURES

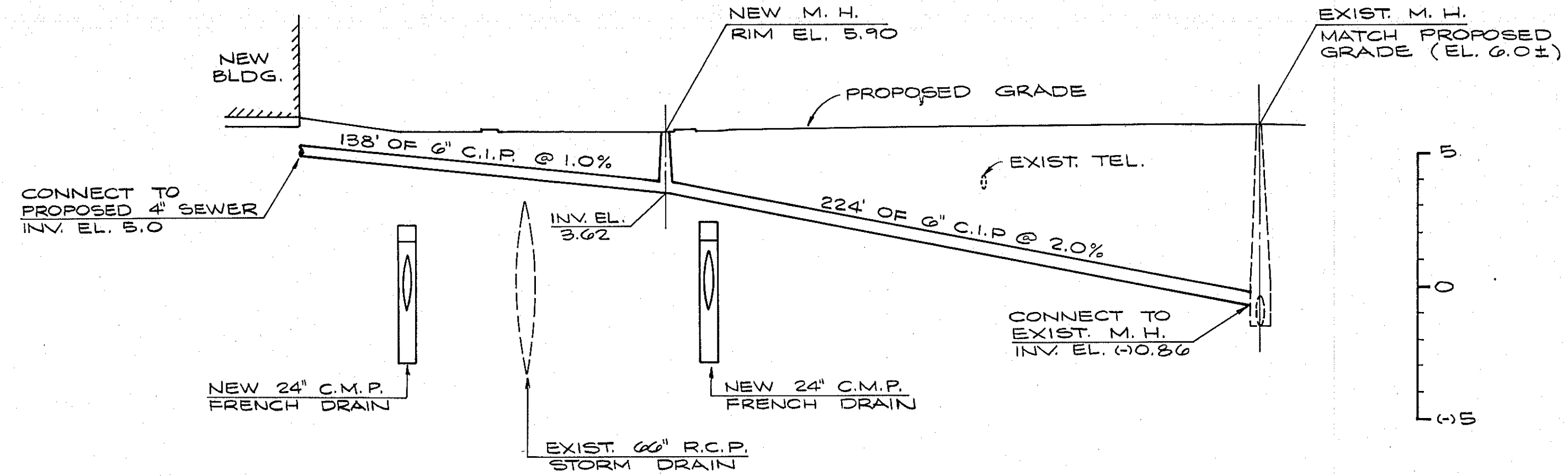
STRUCTURE NO.	C. B. TYPE	GRATE OR THROAT EL.
1	"D"	3.5
2	"D"	4.0
3	"D"	4.0
4	"D"	4.0
5	"F"	4.5
6	"D"	5.0
7	"D"	4.0
8	"D"	4.0
9	"D"	4.0
10	"F"	3.56
11	"F"	3.62
12	"D"	5.0
13	"D"	4.0
14	"D"	4.0
15	"F"	3.94

NOTE: FOR CATCH BASIN DETAILS, SEE SHT. NO.

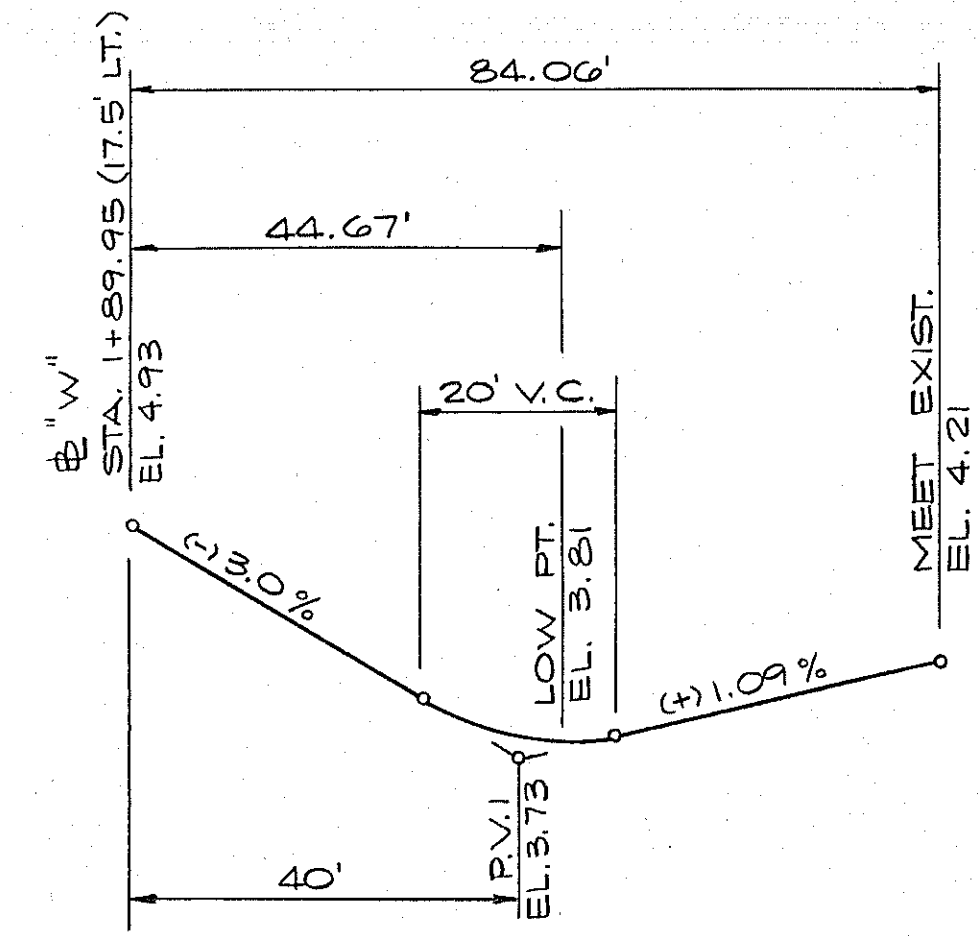
FRENCH DRAIN LENGTHS BETWEEN STRUCTURES

STRUCTURE TO STRUCTURE	LENGTH
1 - 2	68 L.F.
2 - 3	SEE SHT. NO.
3 - 4	120 L.F.
4 - 5	82 L.F.
5 - 7	84 L.F.
6 - 7	65 L.F.
7 - 8	107 L.F.
4 - 8	43 L.F.
8 - 9	100 L.F.
9 - 10	67 L.F.
10 - 11	39 L.F.
12 - 13	68 L.F.
13 - 14	102 L.F.
14 - 15	130 L.F.

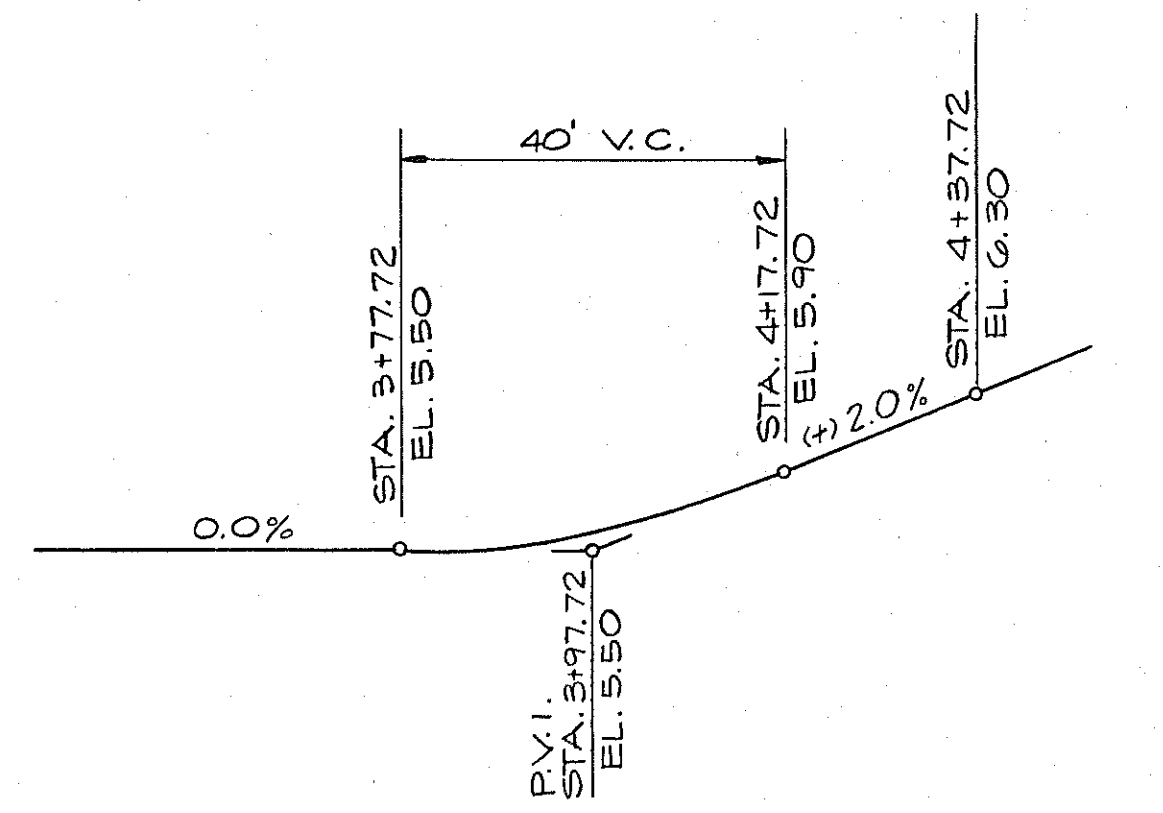
48 HOURS BEFORE DIGGING IN DADE
CALL 264-6820
UNDERGROUND UTILITIES NOTIFICATION CENTER



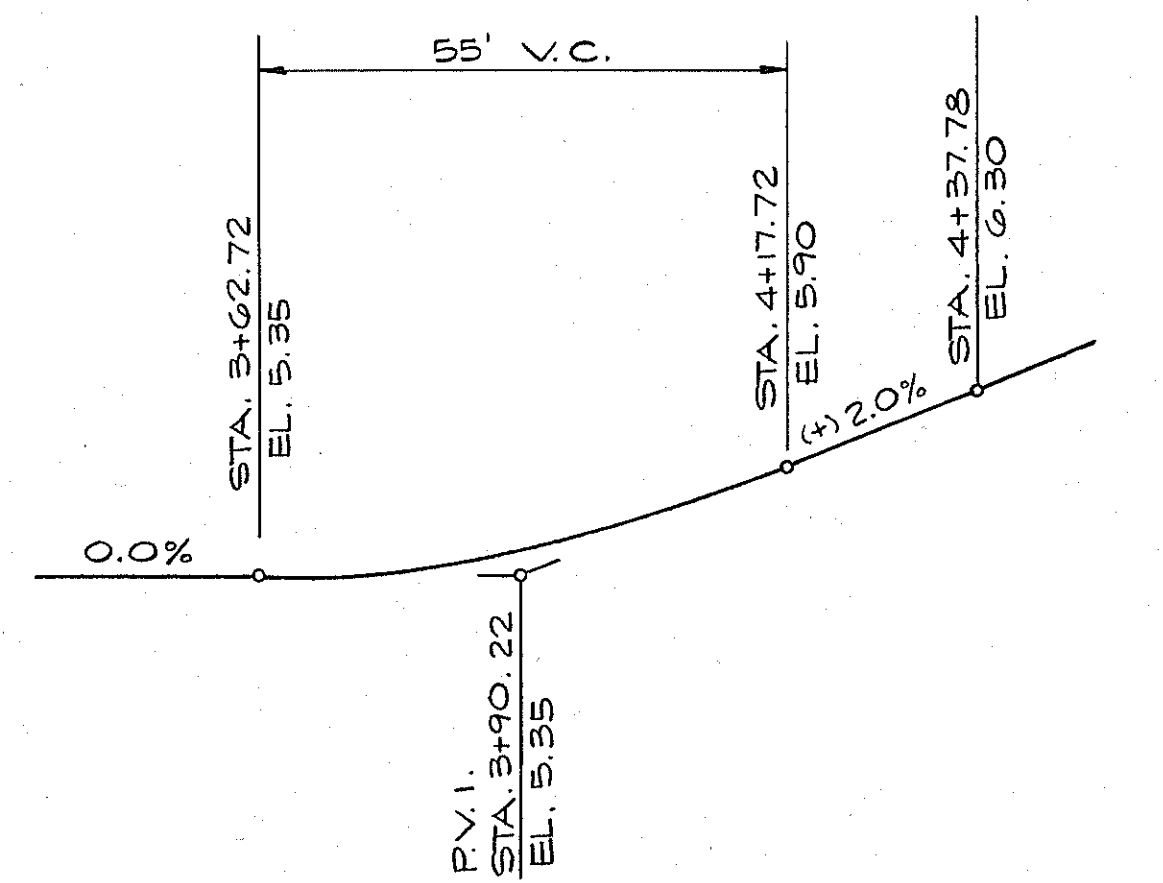
SANITARY SEWER PROFILE



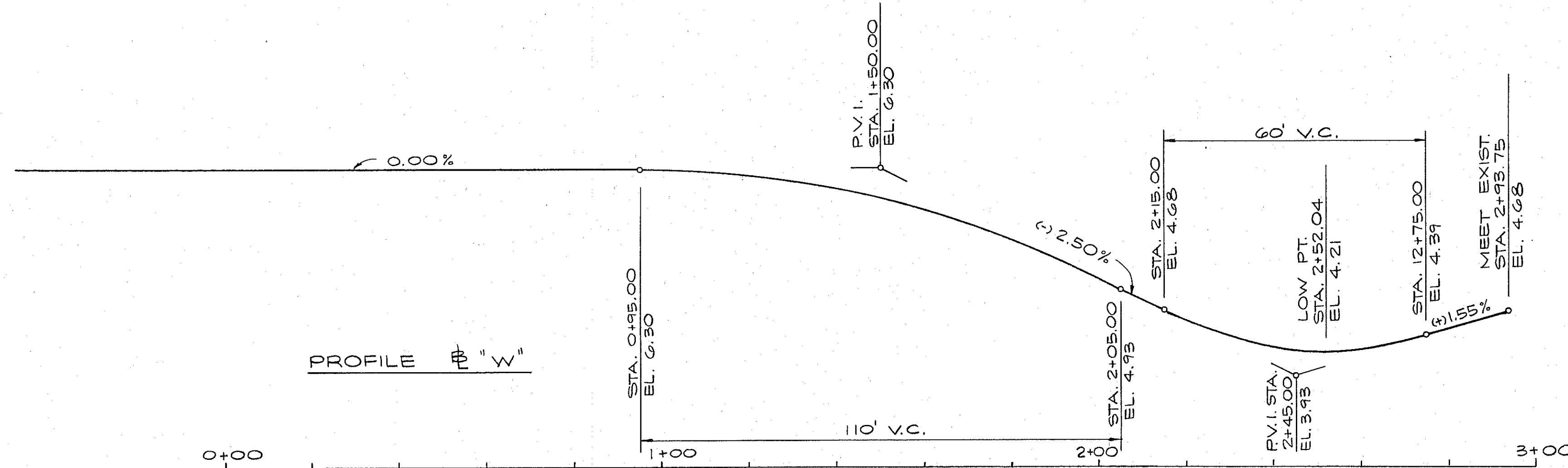
PROFILE "Y"



PROFILE "O" (7.5' LT. OF "Y")



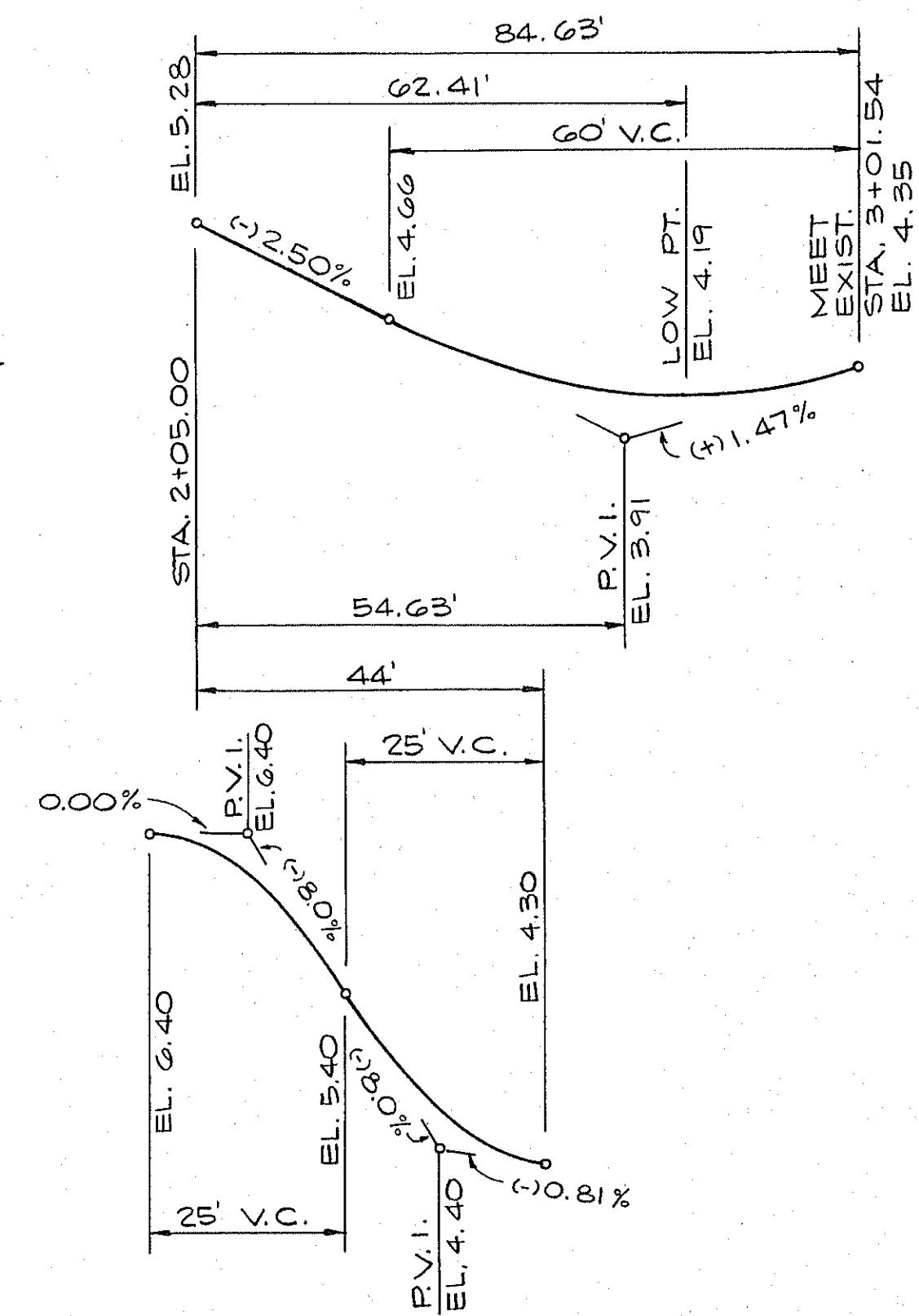
PROFILE "M" (10' LT. OF "Y" & "O")



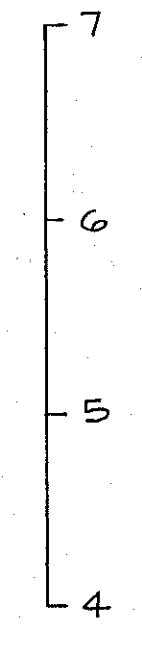
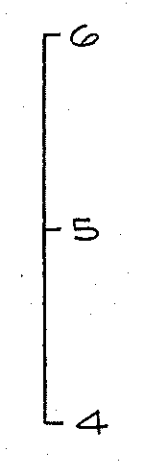
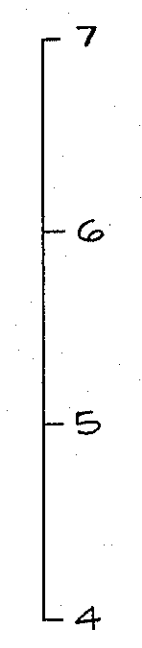
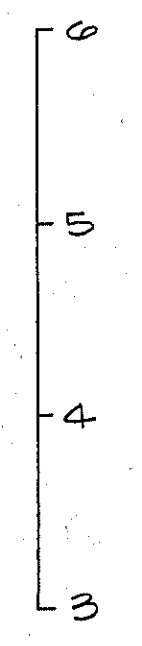
PROFILE "W"

PROFILE "B"
17.5' RT. OF "W"

NOTE: FOR LOCATION OF PAVEMENT PROFILES SEE SH. NO.



PROFILE "C"



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LANDING AREA
PAVEMENT PROFILES &
SANITARY SEWER PROFILES

NO.	DATE	REVISIONS

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

CHK'D
APP'D
DES. DWN. SHEET
FILE

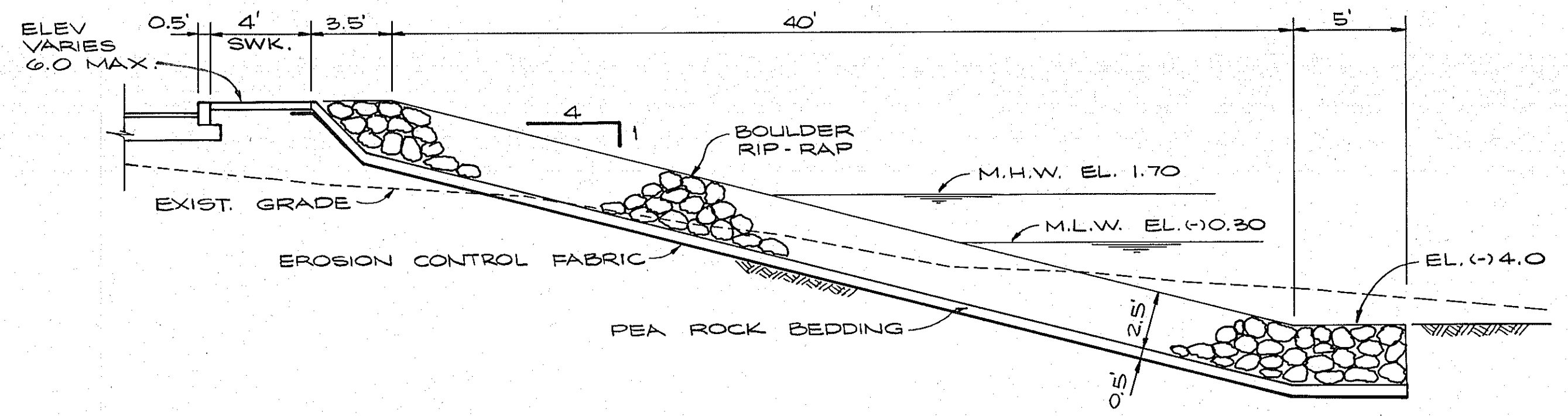
C 59 OF
FILE

JOB No. B 3202
FILE ARCH. 3-28

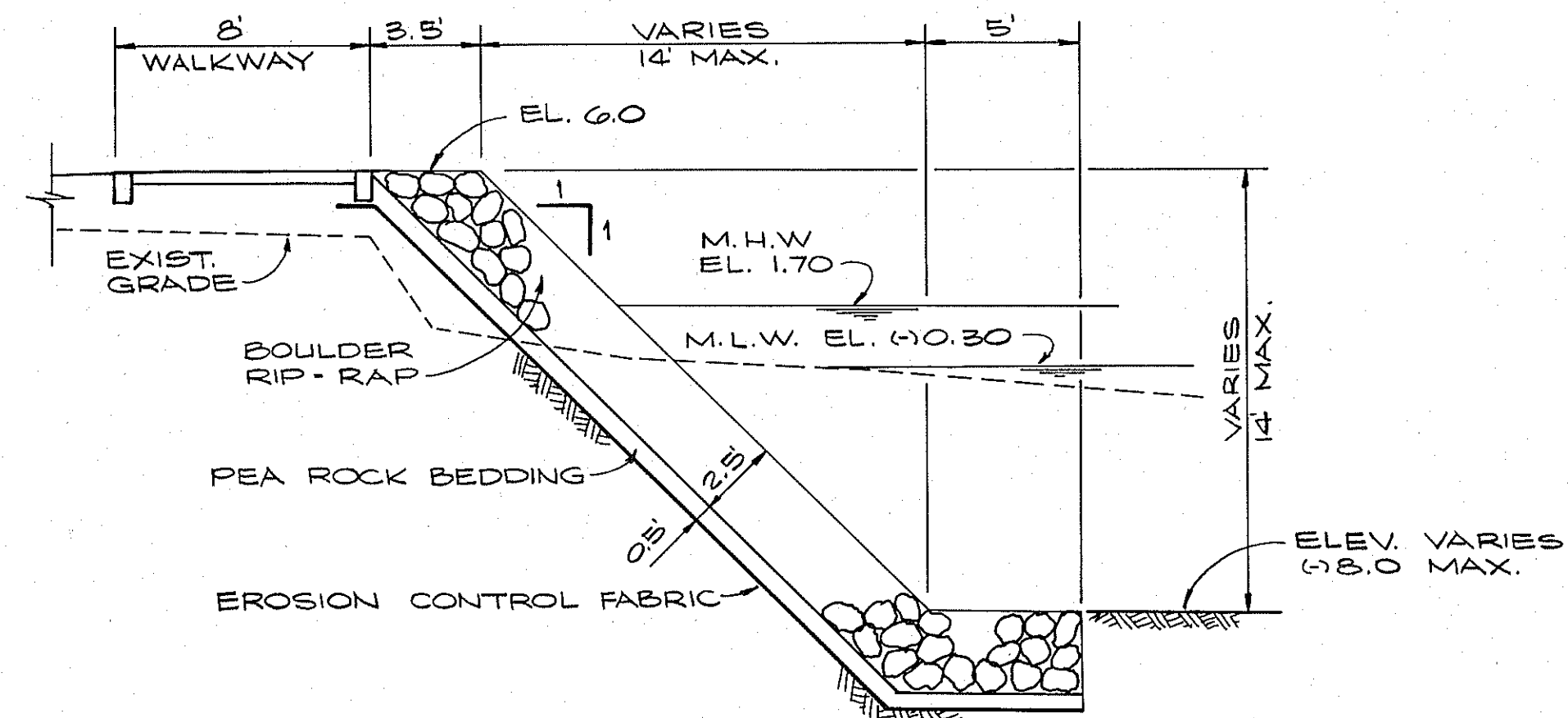
C-59



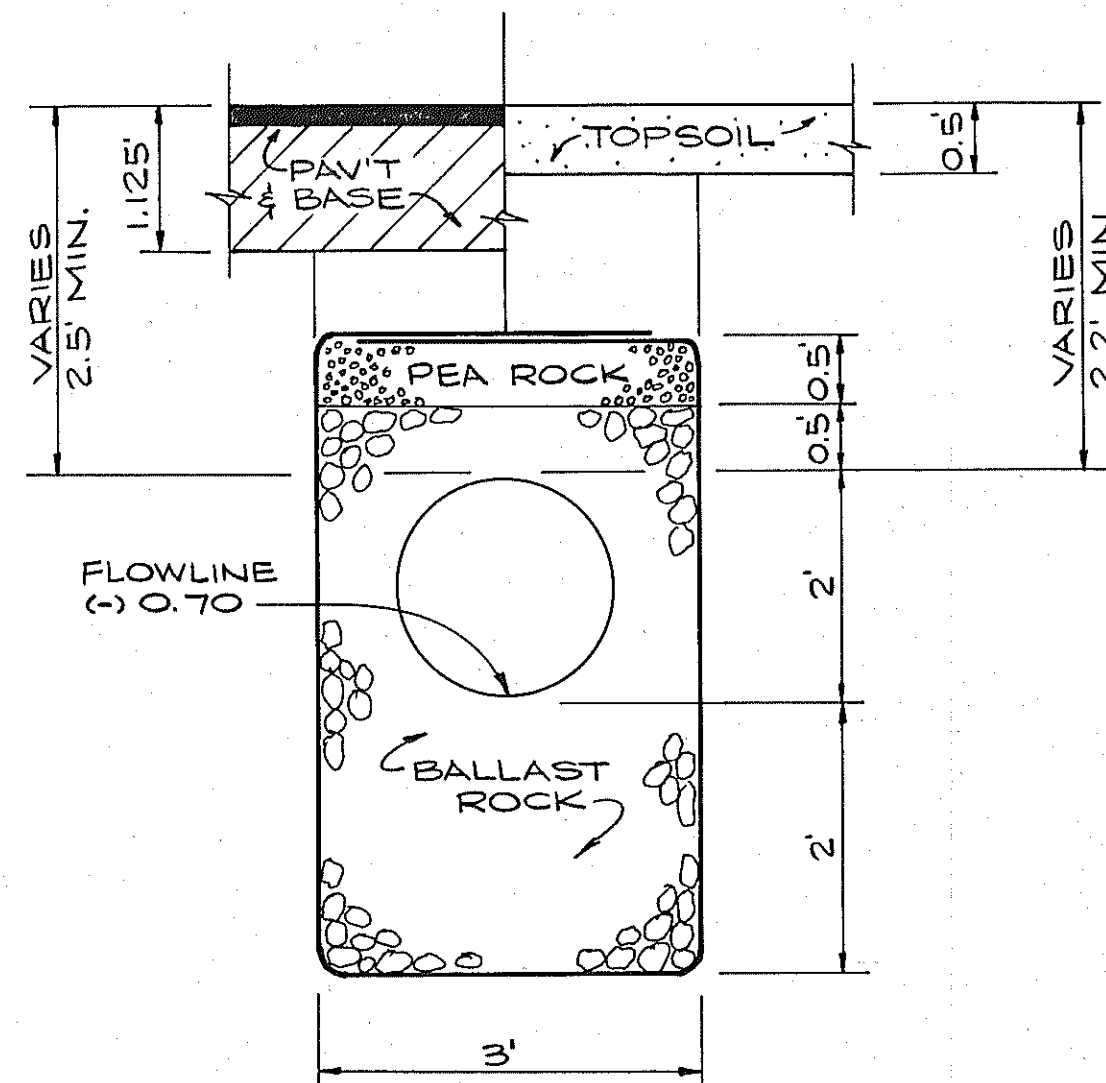
NO.	DATE



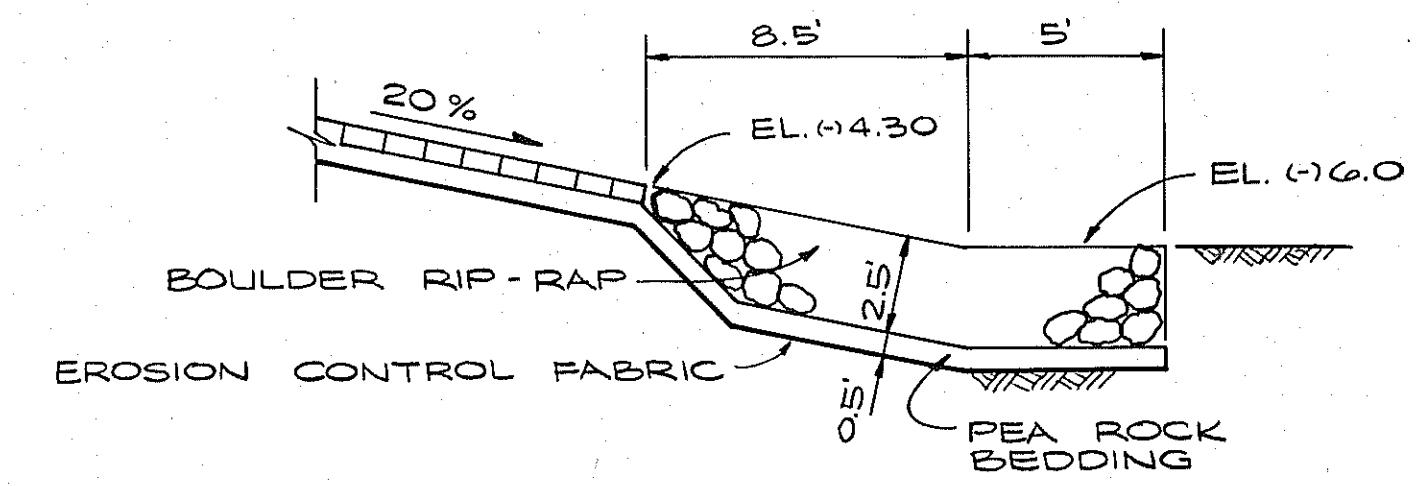
SECTION "A-A"



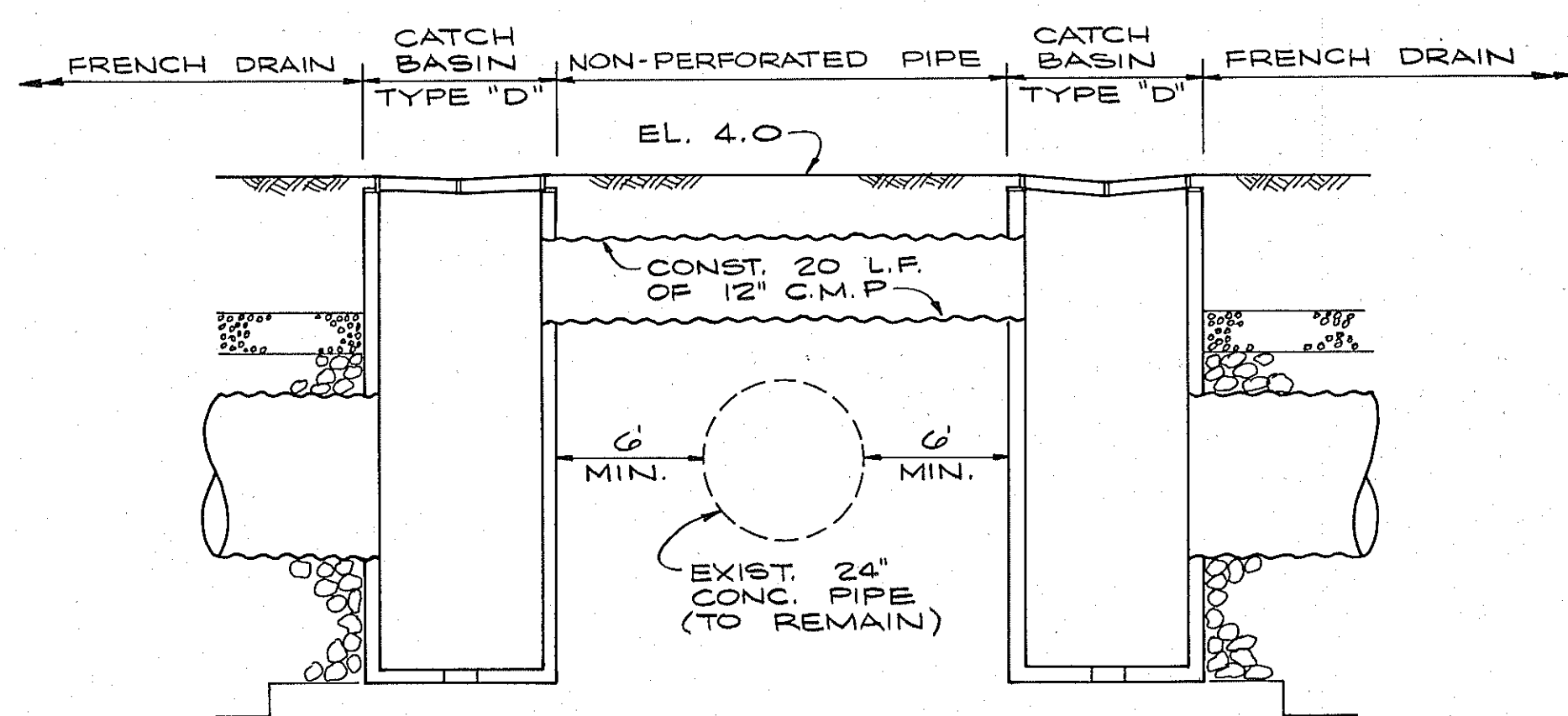
SECTION "B-B"



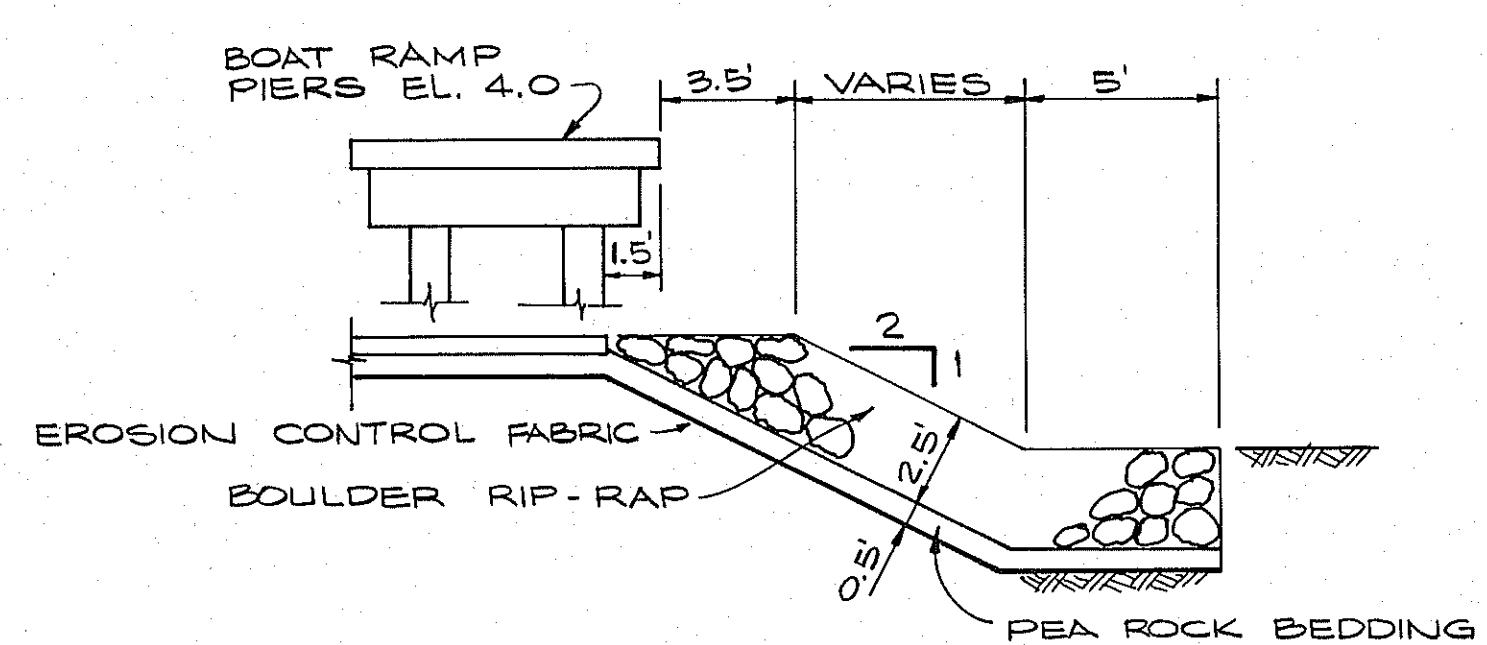
FRENCH DRAIN
 CROSS - SECTION



SECTION "C-C"



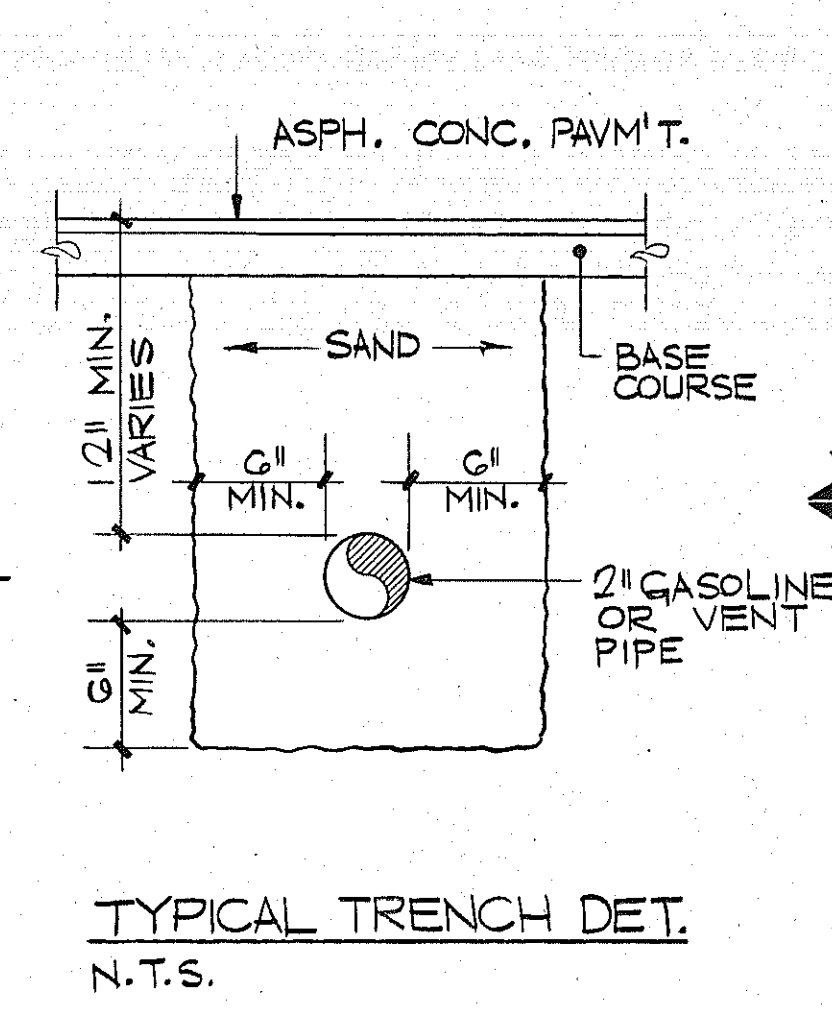
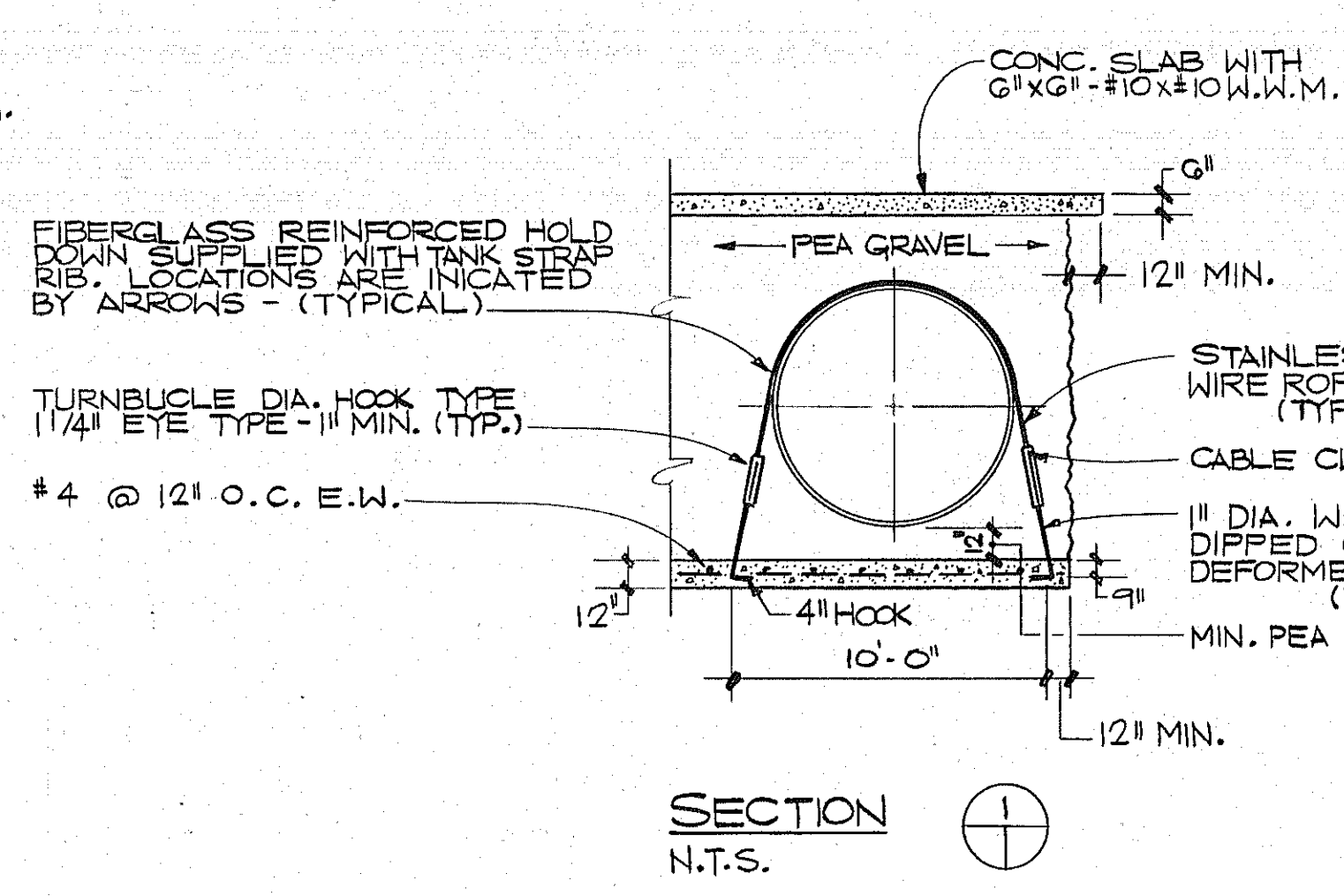
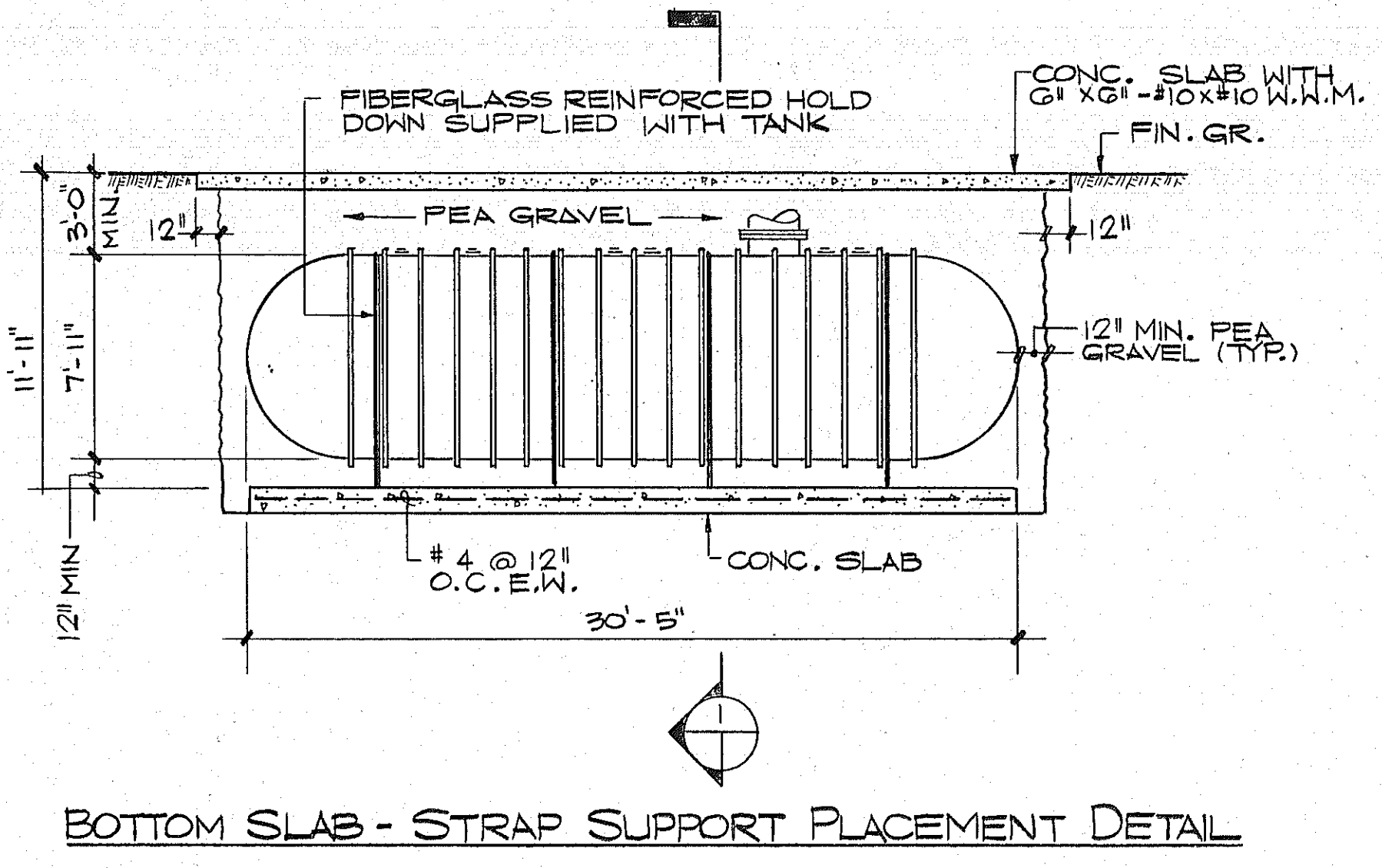
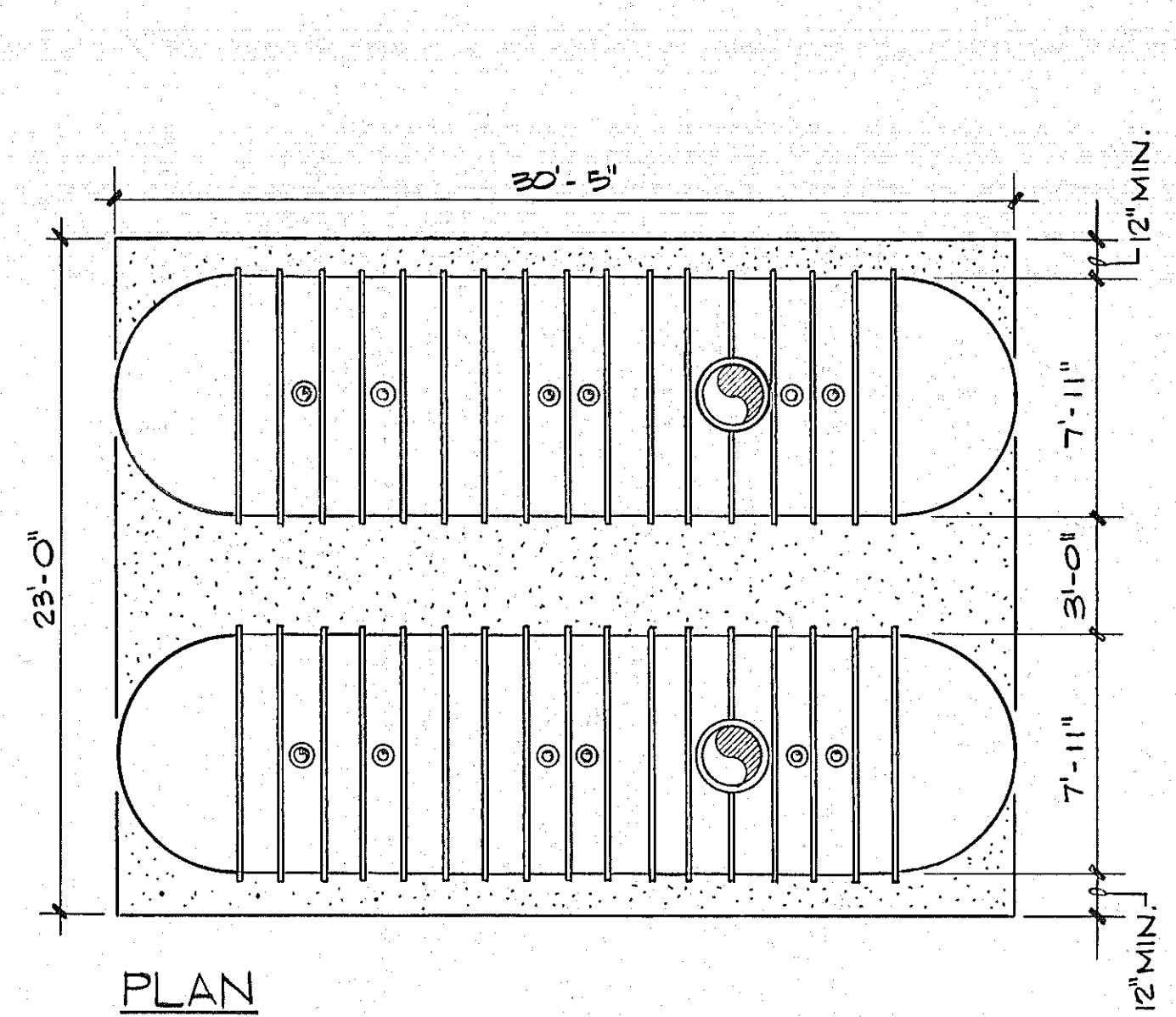
EQUALIZER PIPE DETAIL



SECTION "D-D"

REVISIONS

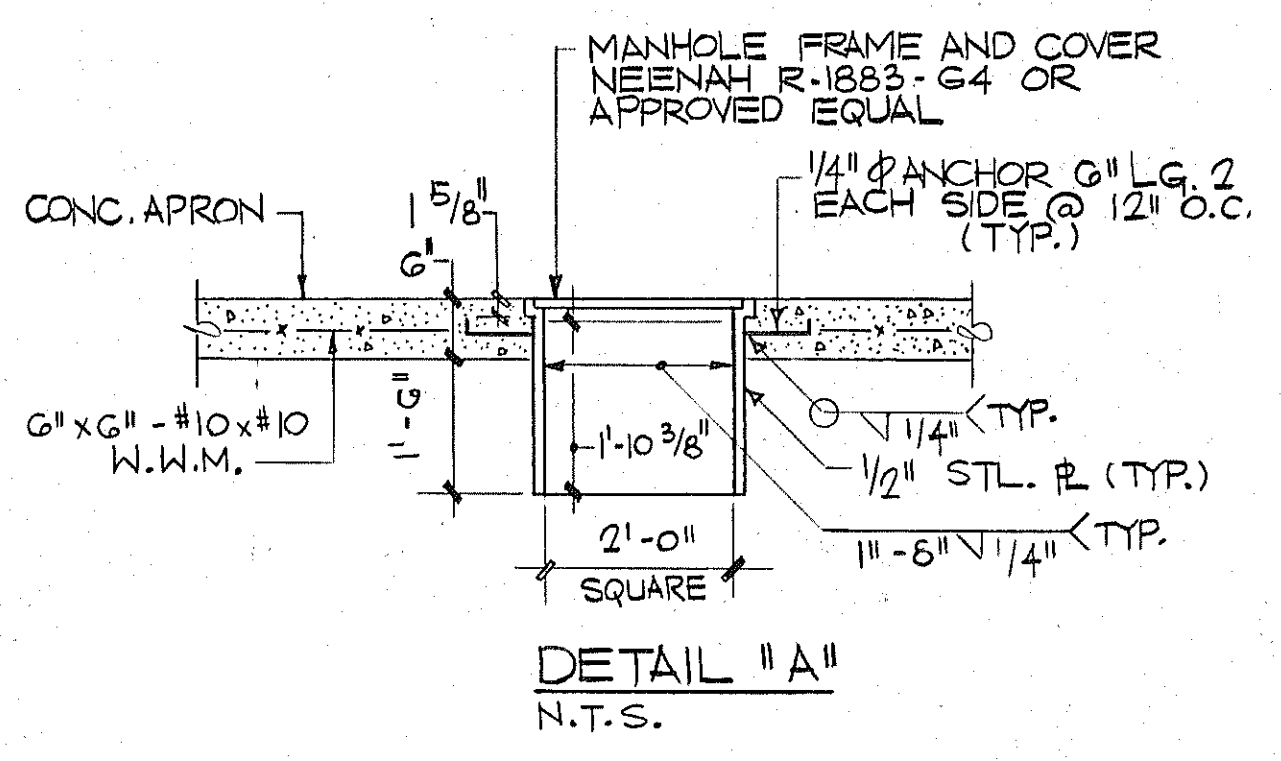
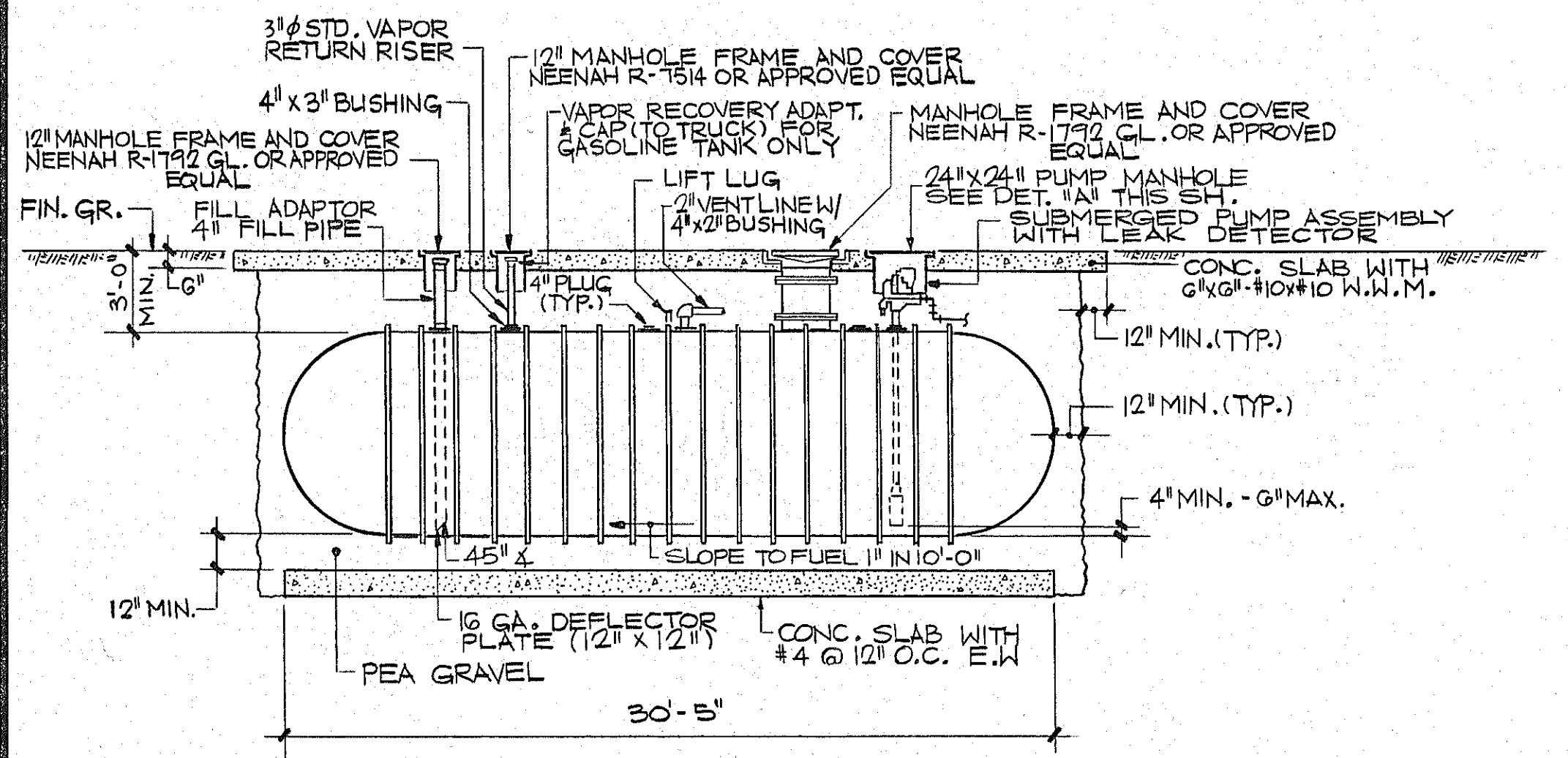
NO.	DATE	DESCRIPTION



FUEL SYSTEM NOTES

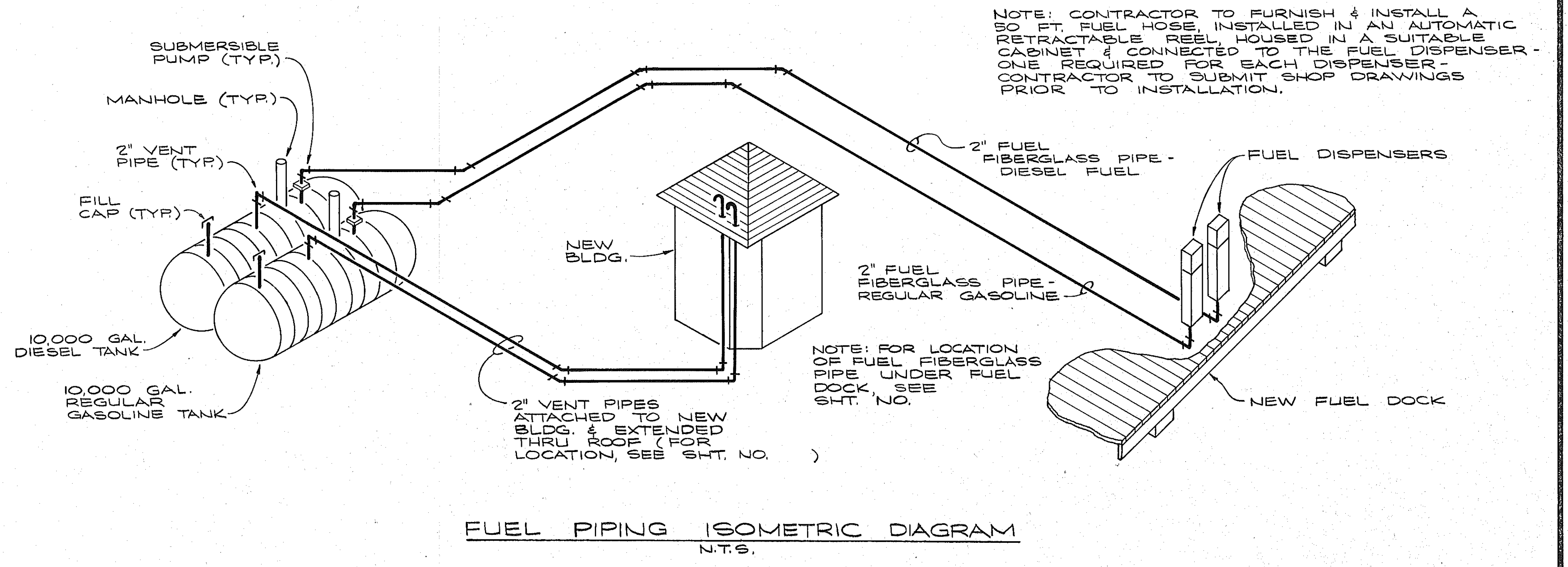
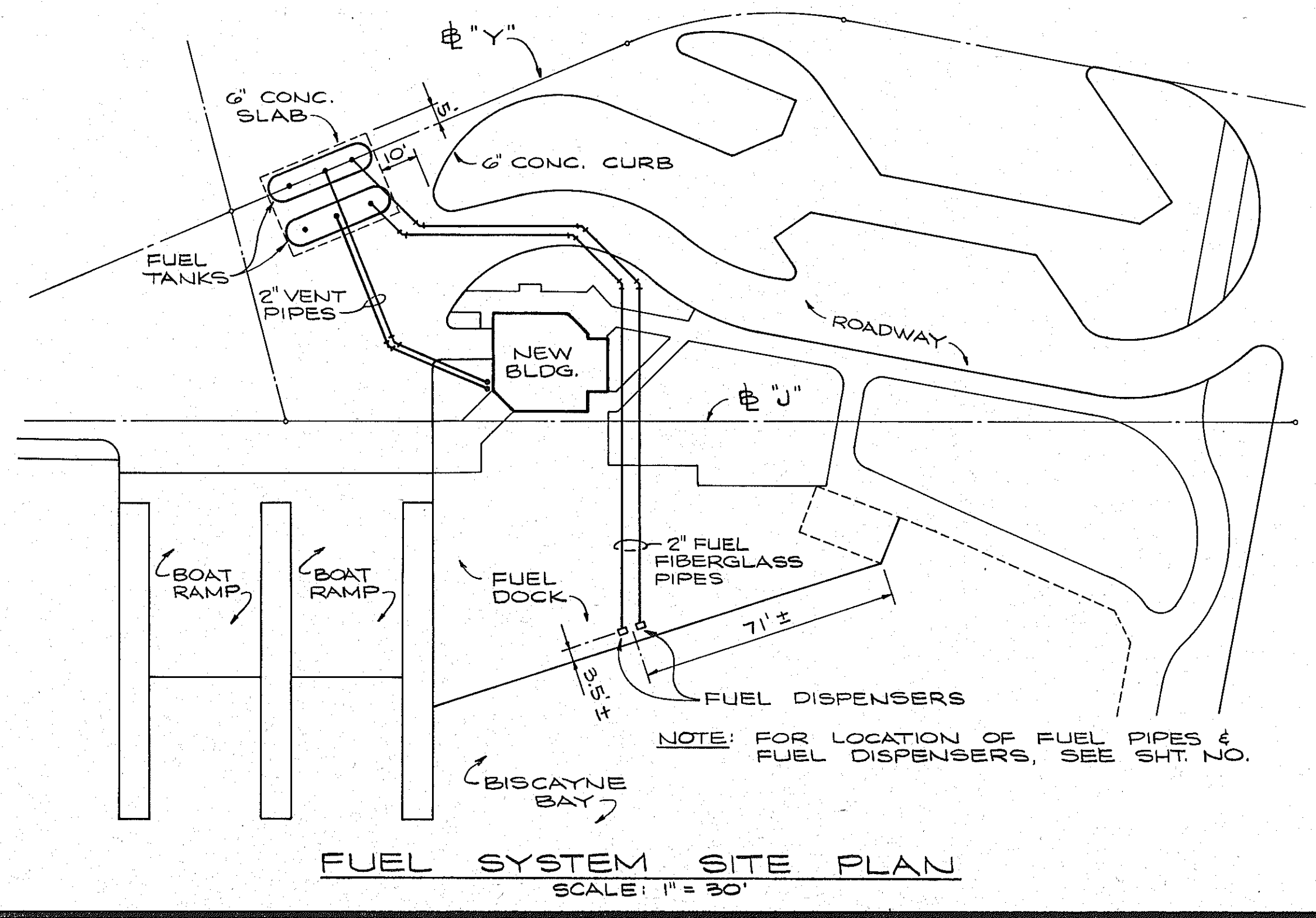
NOTES ON SPECIFICATIONS:

1. PLACE THREE "NO SMOKING" SIGNS IN CONSPICUOUS LOCATIONS ON FUELING DOCK, WHERE PROVIDED.
2. PROVIDE THREE APPROVED FIRE EXTINGUISHERS WITH MOUNTING PROVISIONS ON FUEL DOCK (ANSUL MODEL K-30-E, OR EQUAL).
3. SUBMERSIBLE PUMPS: RED JACKET P150H1-1HB, 1 1/2 HP, 230 VOLT, 1 PHASE, 60 HERTZ RATED TO PUMP 32 GPM AT 25 FEET TDH WHEN PUMPING GASOLINE, OR ACCEPTED EQUAL.
4. DISPENSERS: COMPLETE UNITS MATED TO CONTROL SUBMERSIBLE PUMPS EACH COMPLETE WITH CABINET-HOSE REEL, 50 FEET OF 3/4" HOSE, NOZZLE, CERTIFIED METERS AND REGISTERS (UP TO 999.9 GALLONS AND UP TO \$1.99 PER GALLON), CORROSION RESISTANT HOUSINGS, ILLUMINATED, MODEL DRESSER WAYNE E-730-1 OR ACCEPTED EQUAL.
5. TANKS: FIBERGLASS REINFORCED PLASTIC UNDERGROUND STORAGE TANKS DESIGNED TO BE BURIED UNDER 3.5 FEET OF OVERBURDEN AND WITHSTAND EXTERNAL HYDRAULIC PRESSURE WITH THE HOLD FULLY FLOODED WITH A SAFETY FACTOR OF 3 TO 1 AGAINST BUCKLING, WITHSTAND SURFACE H-20 AXLE LOADS WHEN INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS, WITHSTAND 5 PSI INTERNAL AIR PRESSURE TEST WITH A SAFETY FACTOR OF 5 TO 1. CONSTRUCT OF MATERIALS CHEMICALLY INERT TO PRODUCTS TO BE STORED, COMPLETE WITH SUITABLE FITTINGS AND CONNECTIONS, CONFORM TO UL FILE MH 7991 DATED OCTOBER 13, 1965, FOR STORAGE OF FLAMMABLE LIQUIDS AND NFPA PAMPHLETS 30 AND 31. TANKS TO BE AS MANUFACTURED BY OWENS/CORNING FIBERGLASS, CENTURY FIBERGLASS, OR EQUAL.
6. PIPING: FIBERGLASS, KWIKEY R (RTRP-LLAW TO BE MANUFACTURED BY FIBERGLASS RESOURCES OR EQ. INSTALL ALL PIPING FREE FROM TRAPS AND DRAIN TOWARD TANKS. CONFORM TO NFPA AND UL REQUIREMENTS.
7. FILL BOX: 12" MANHOLE (EMCO WHEATON A0717-008) WITH CENTERING BRACKET, CENTERING DEVICE (EMCO 491044), 4" FILL CAP (EMCO A0049-001) AND ADAPTOR (A0050-001), OR EQUAL.
8. EMERGENCY VALVE: AUTOMATIC SHUT-OFF OF FLOW IF DISPENSER IS OVERTURNED. MODEL A-0025, EMCO WHEATON, OR EQUAL.
9. VENT: 2" MODEL A4103-004, EMCO WHEATON, OR EQUAL.



INSTALLATION DETAIL - REGULAR & DIESEL TANK PIPING
N.T.S.

NOTE:
TANKS MUST BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND N.F.P.A. STANDARDS.

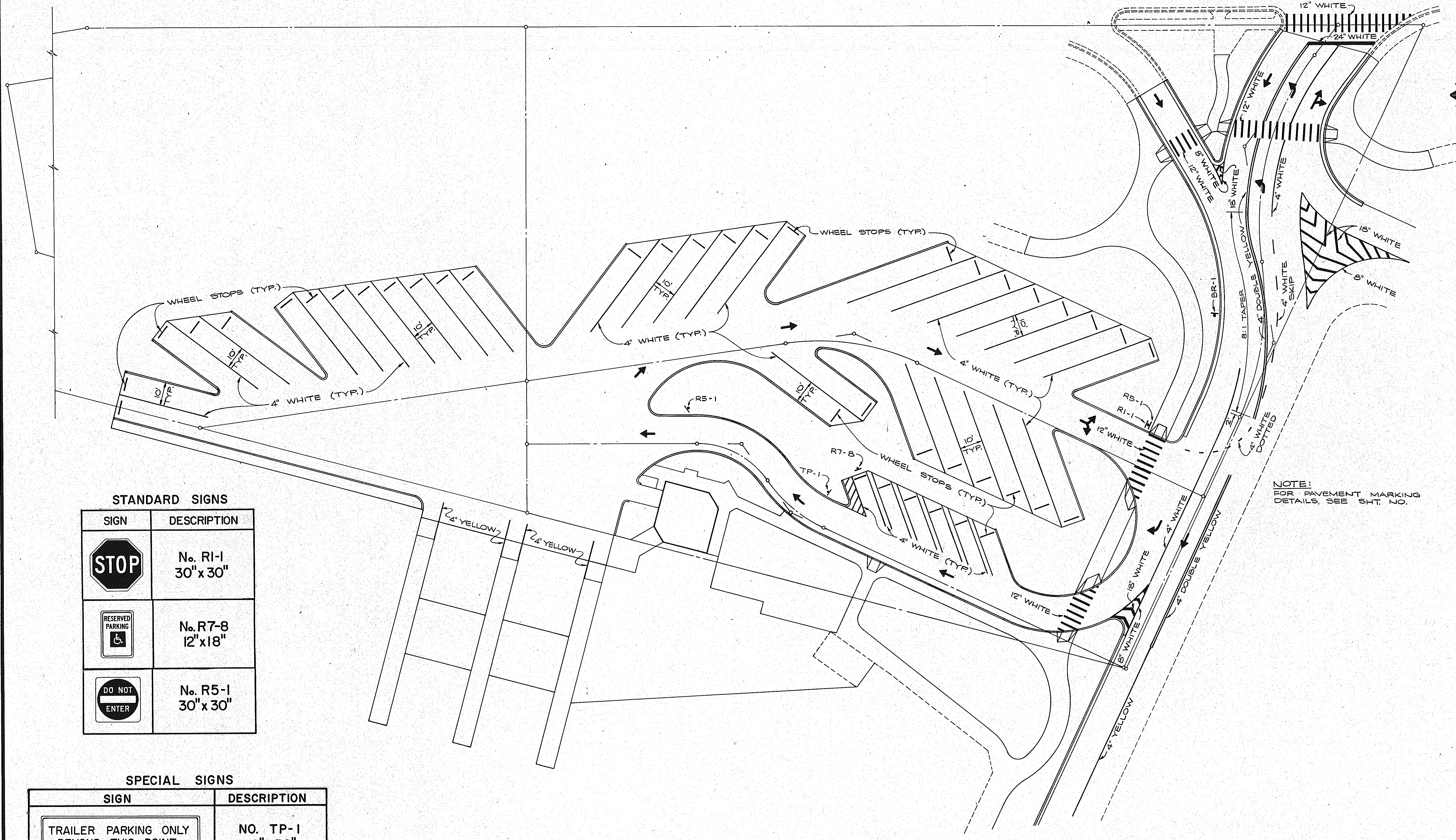


NOTE: CONTRACTOR TO FURNISH & INSTALL A 50 FT. FUEL HOSE, INSTALLED IN AN AUTOMATIC RETRACTABLE REEL HOUSED IN A SUITABLE CABINET & CONNECTED TO THE FUEL DISPENSER - ONE REQUIRED FOR EACH DISPENSER - CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.

NOTE: FOR LOCATION OF FUEL FIBERGLASS PIPE UNDER FUEL DOCK, SEE SHT. NO.

NOTE: 2" VENT PIPES ATTACHED TO NEW BLDG. & EXTENDED THRU ROOF (FOR LOCATION, SEE SHT. NO.)

REVISIONS	
NO.	DATE



STANDARD SIGNS

SIGN	DESCRIPTION
	No. R1-1 30" x 30"
	No. R7-8 12" x 18"
	No. R5-1 30" x 30"

SPECIAL SIGNS

SIGN	DESCRIPTION
	NO. TP-1 12" x 30"
	NO. BR-1 18" x 24"



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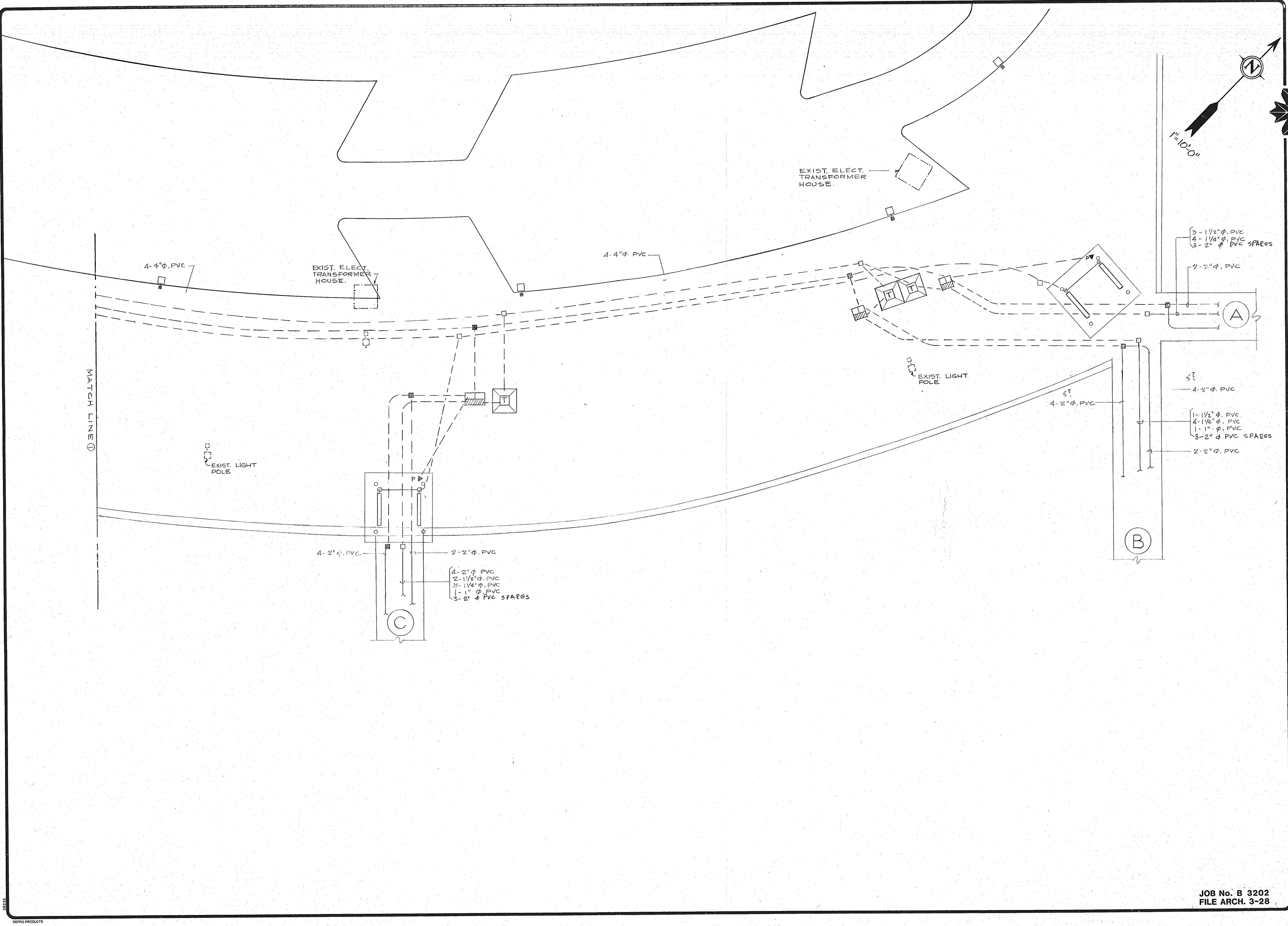
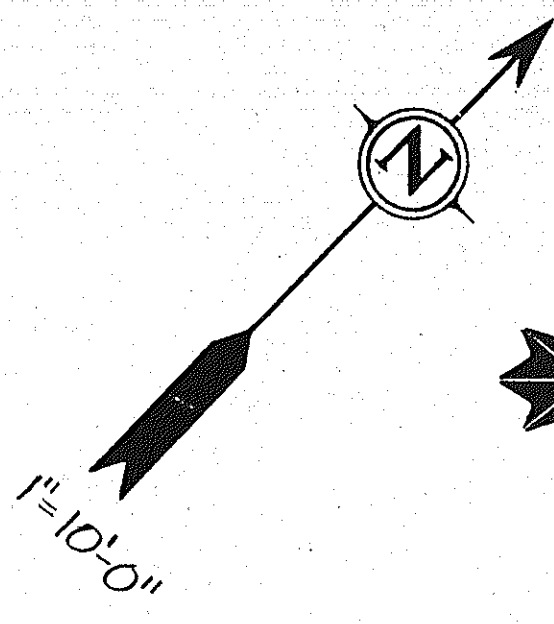
ELECTRICAL & SIGNAL
PIERS "A" & "B"

REVISIONS

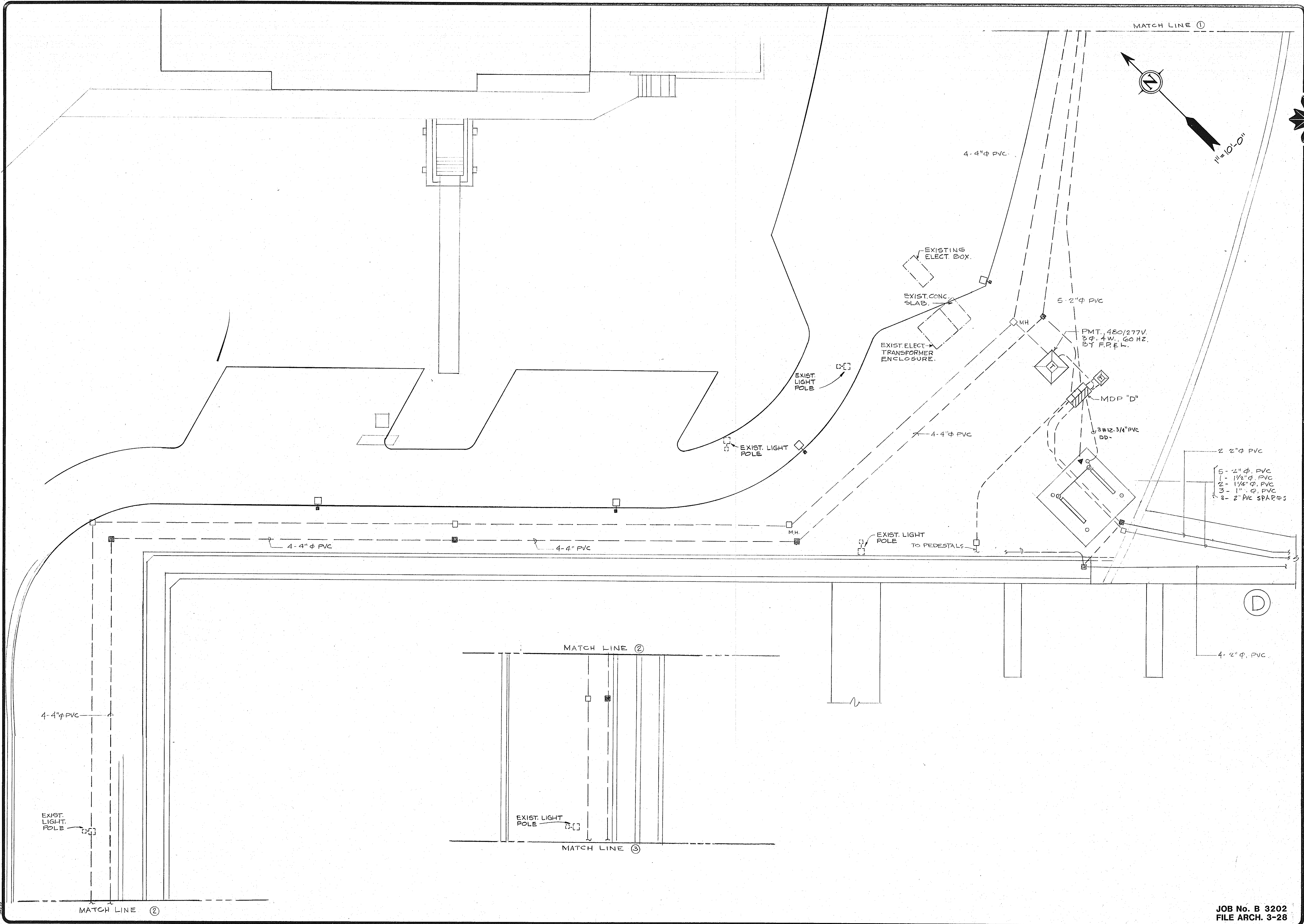
NO. DATE

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

CHK'D. APP'D.
DES. DWN. SHEET
DATE: FILE:
E-1 OF

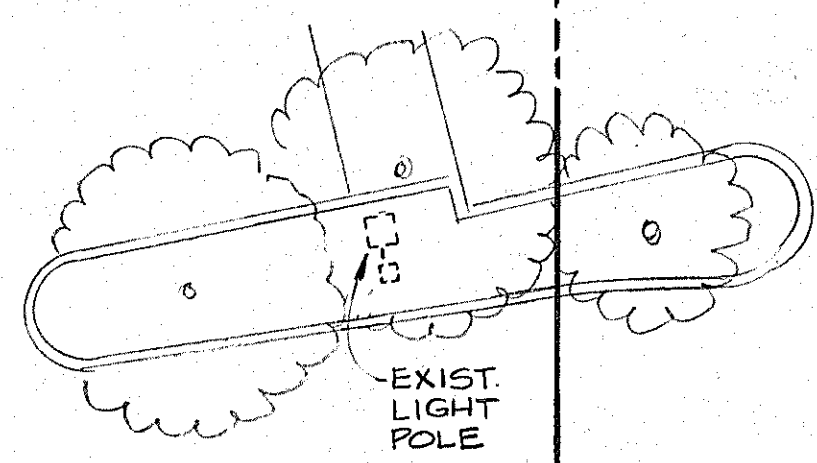


JOB No. B 3202
FILE ARCH. 3-28

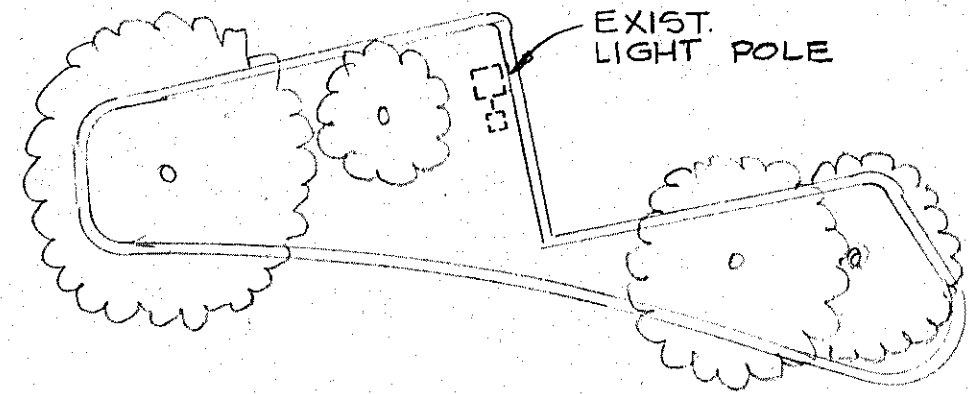


REVISIONS

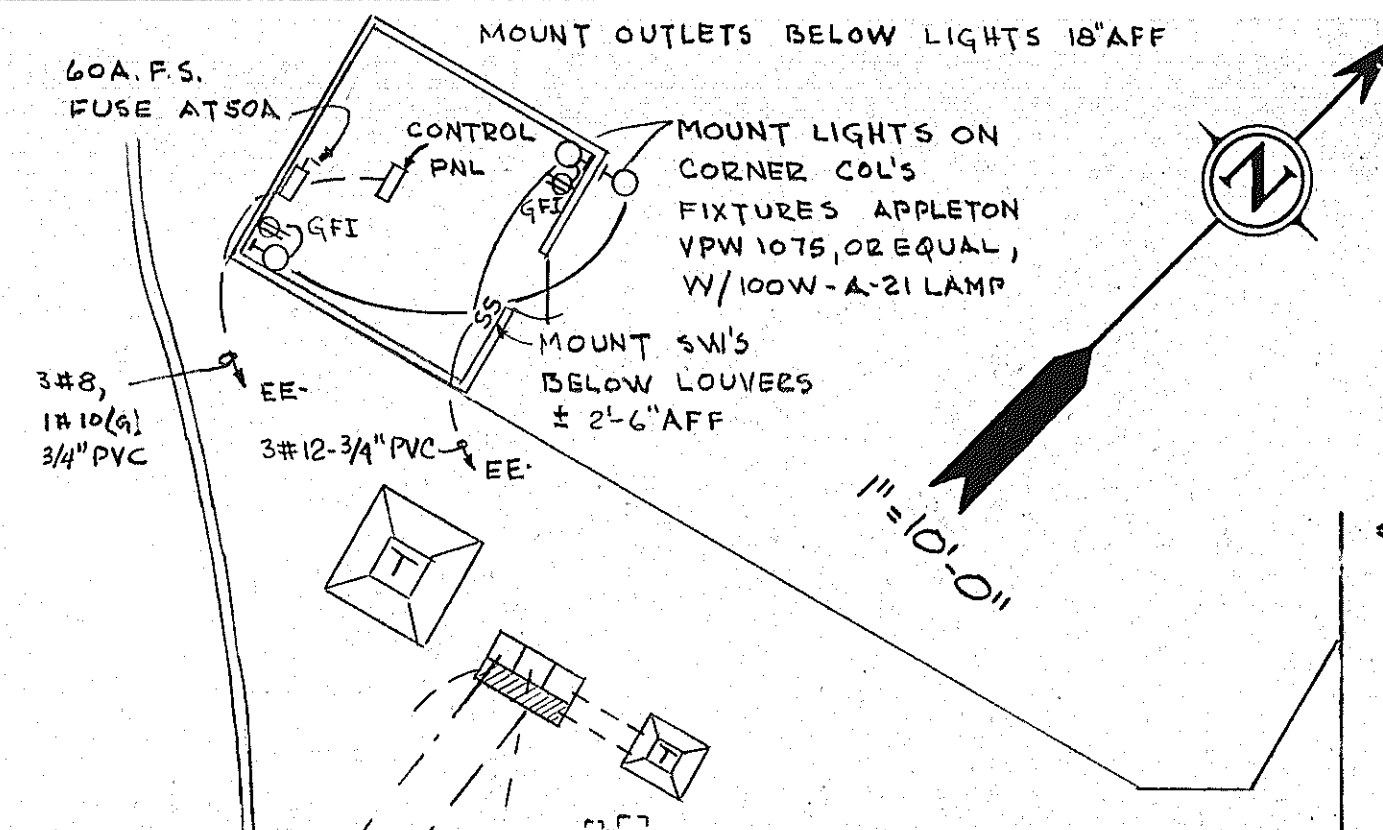
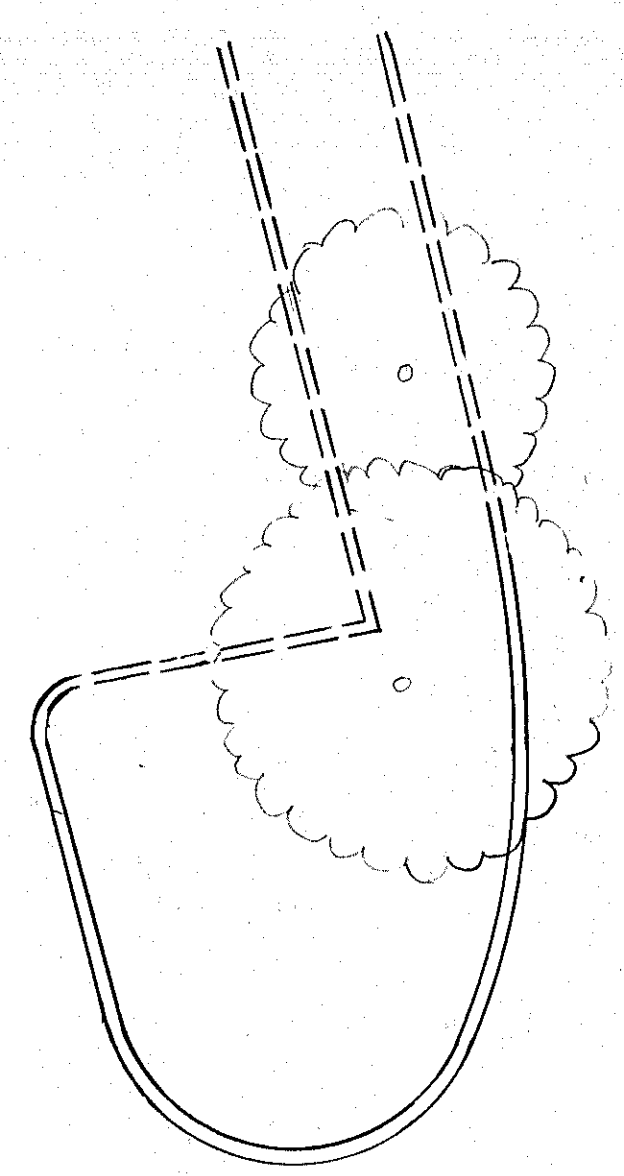
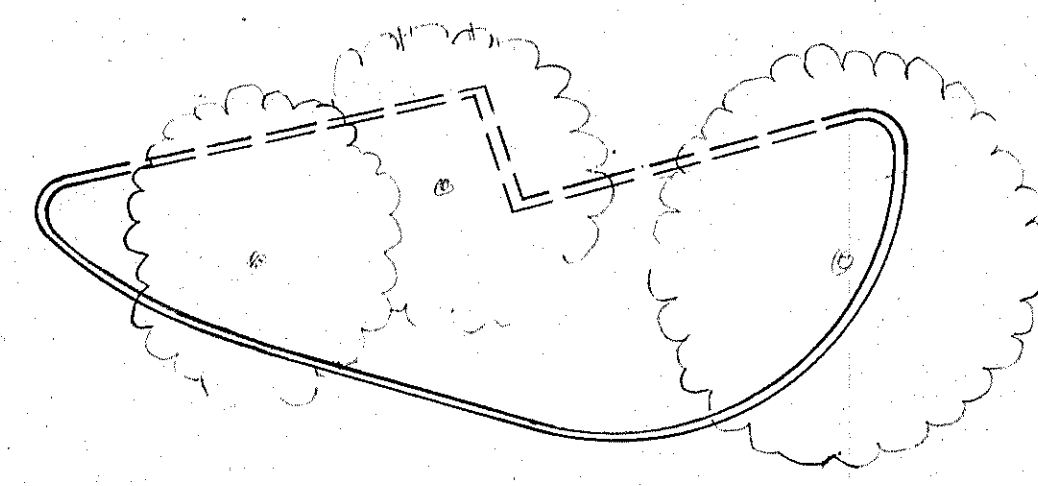
NO.	DATE	DESCRIPTION



EXIST. LIGHT POLE



EXIST. LIGHT POLE



60A F.S. FUSE AT SOA

3#8, 1#10(A), 3/4" PVC

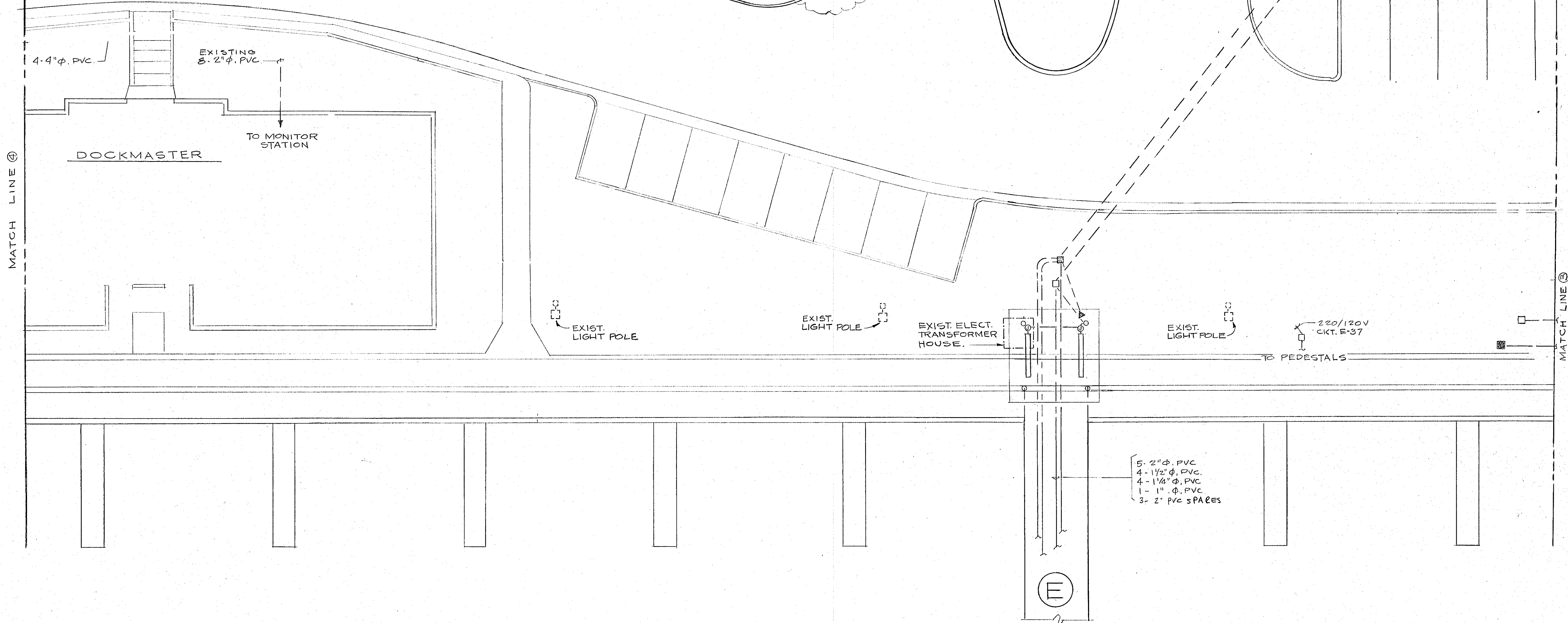
3#12-3/4" PVC

MOUNT OUTLETS BELOW LIGHTS 18" AFF

MOUNT LIGHTS ON CORNER COL'S
FIXTURES APPLETON
VPW 1075, OR EQUAL,
W/100W-A-21 LAMP

MOUNT SW'S
BELOW LOUVERES
± 2'-0" AFF

1" = 10'-0"



MATCH LINE (A)

DOCKMASTER

EXISTING 8-2" φ PVC

TO MONITOR STATION

4-4" φ PVC

EXIST. LIGHT POLE

EXIST. LIGHT POLE

EXIST. ELECT. TRANSFORMER HOUSE

EXIST. LIGHT POLE

220/120V CKT. E-37

PEDESTALS

MATCH LINE (B)

- 5- 2" φ PVC
- 4- 1 1/2" φ PVC
- 4- 1 1/4" φ PVC
- 1- 1" φ PVC
- 3- 2" PVC SPARES

REVISIONS

NO.	DATE	DESCRIPTION

COMMERCIAL DOCK
FOR ELECT. SERV. THIS AREA SEE SH. E-

CKT. G-35 (3 SETS OF 2# 3/0 & 1# 1 @ 2 1/2" PVC.

5 - 1 1/2" φ, PVC.
5 - 1 1/4" φ, PVC.
1 - 1" φ, PVC.

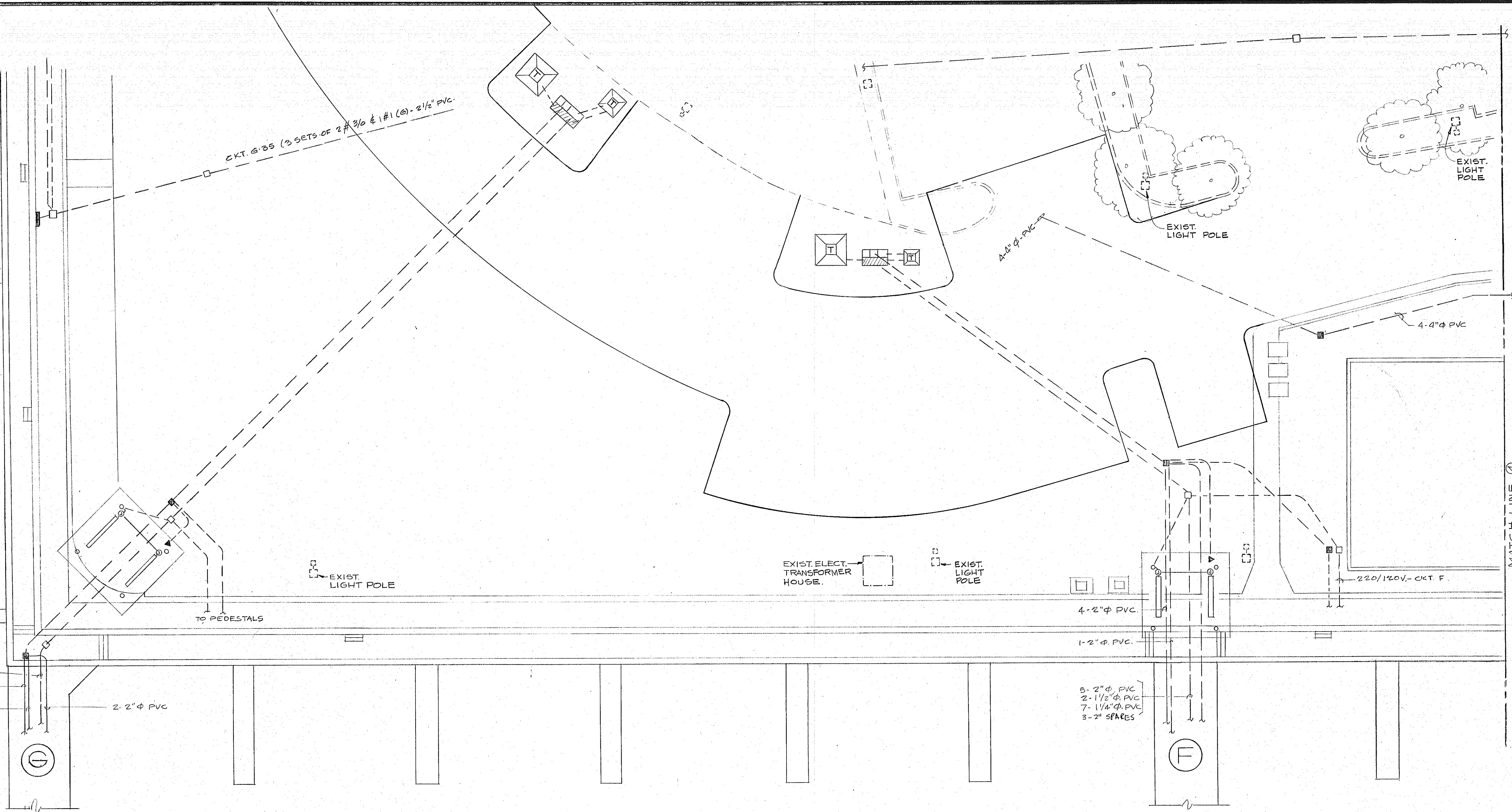
4 - 2" φ, PVC
1 - 2" φ, PVC
2 - 2" φ, PVC

5 - 2" φ, PVC
2 - 1 1/2" φ, PVC
7 - 1 1/4" φ, PVC
3 - 2" SPARES

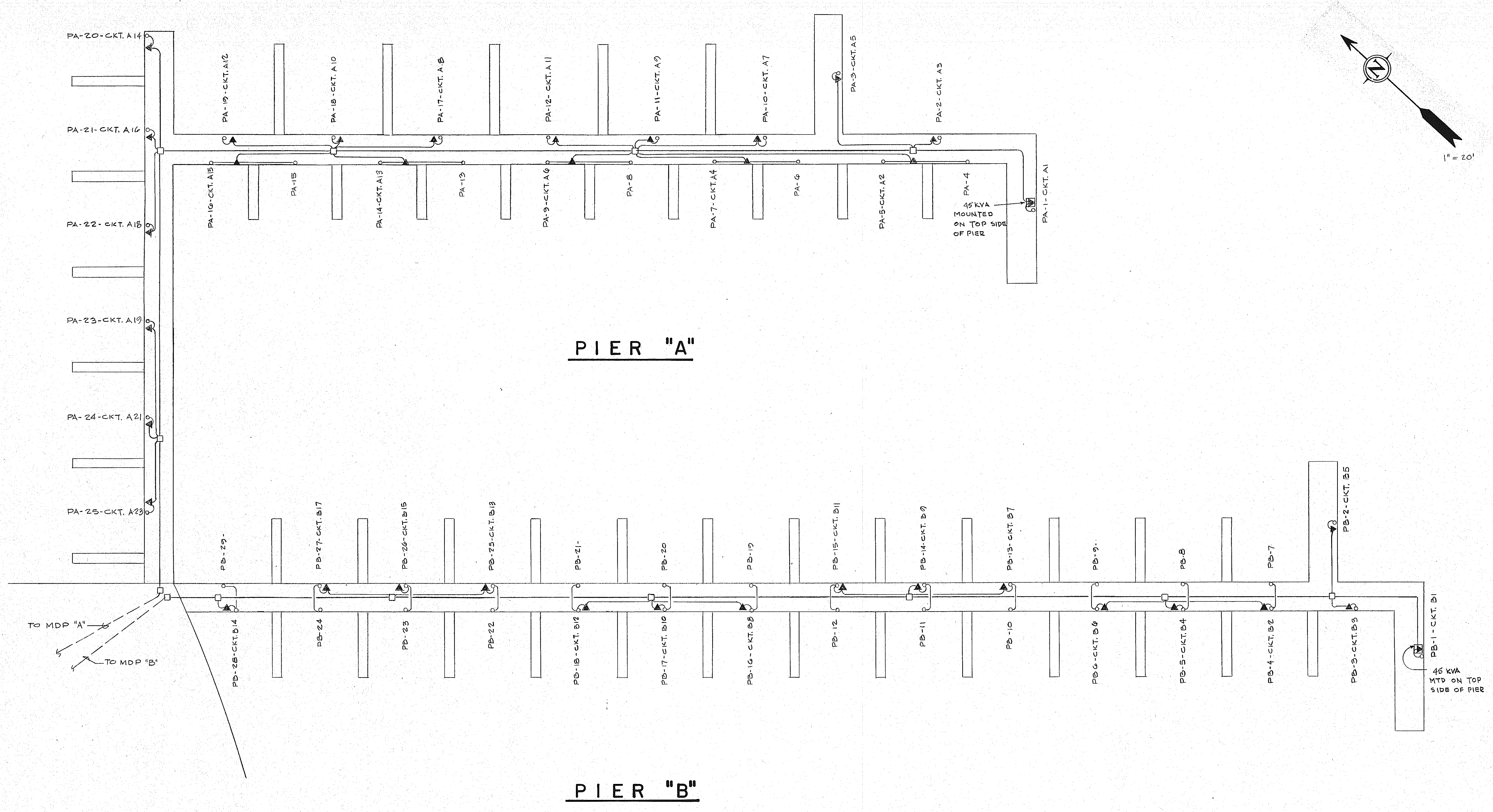
4 - 2" φ, PVC
1 - 2" φ, PVC

4 1/2" φ, PVC

4 - 4" φ, PVC

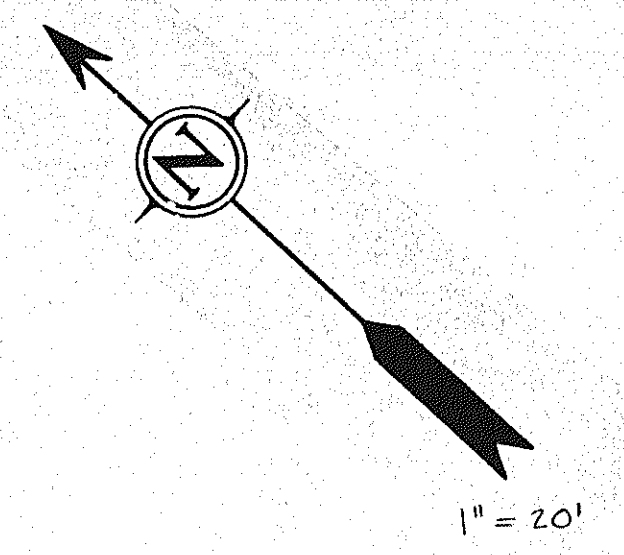


NO.	DATE	REVISIONS



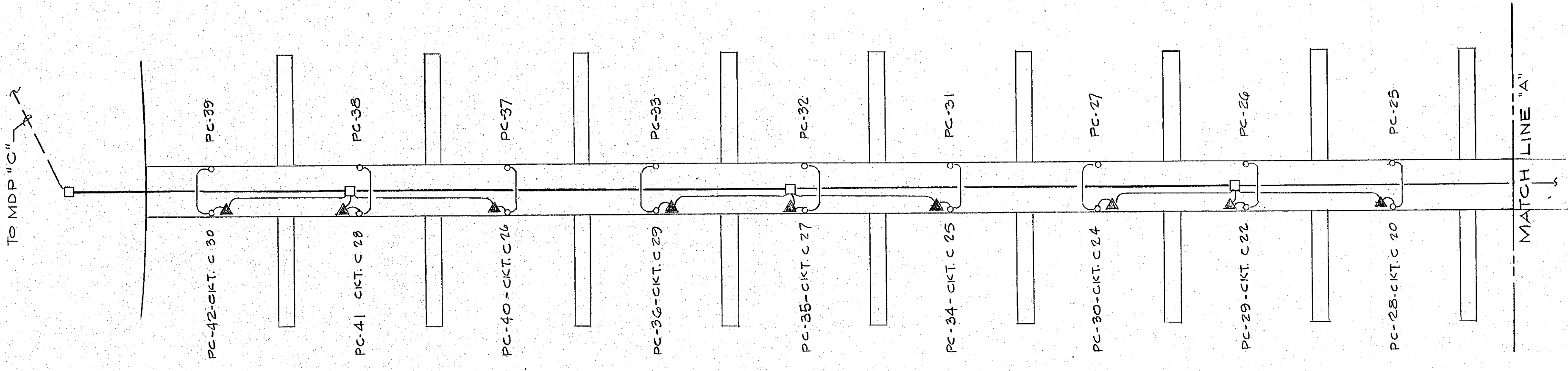
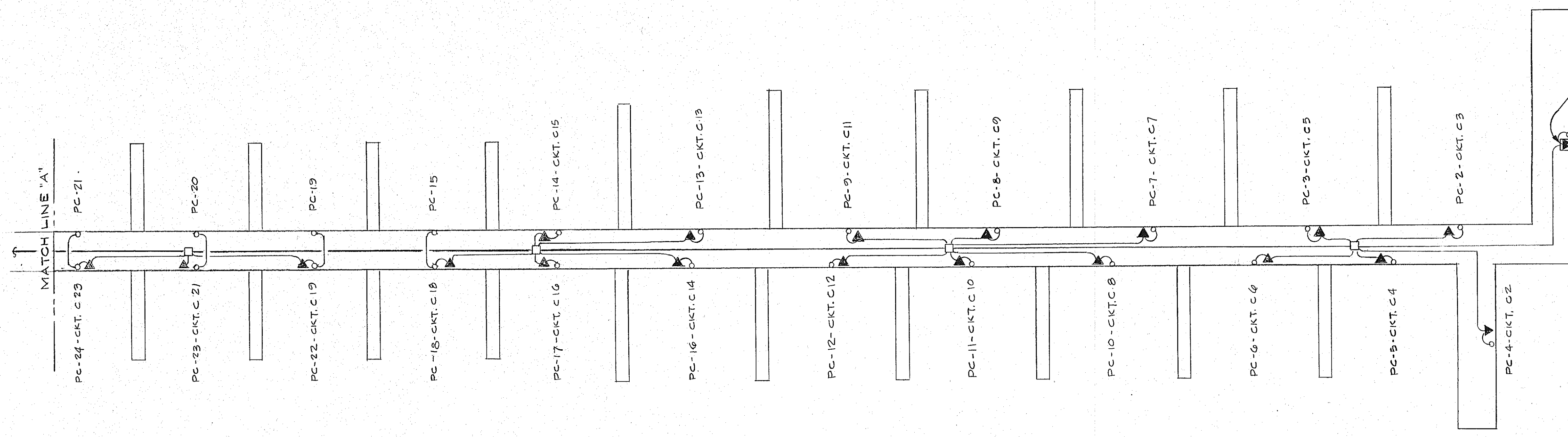
PIER "A"

PIER "B"

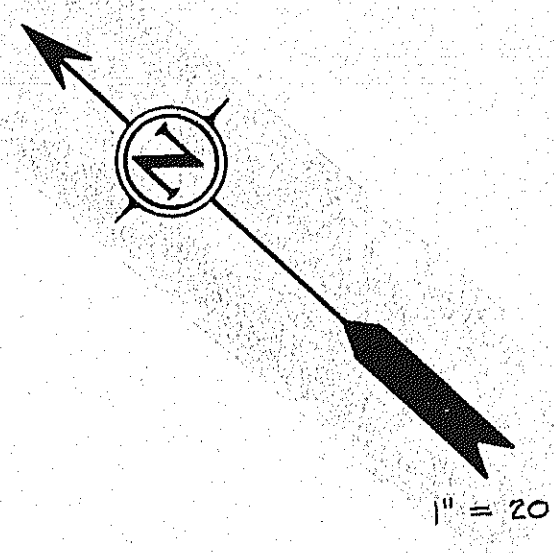


REVISIONS

NO.	DATE



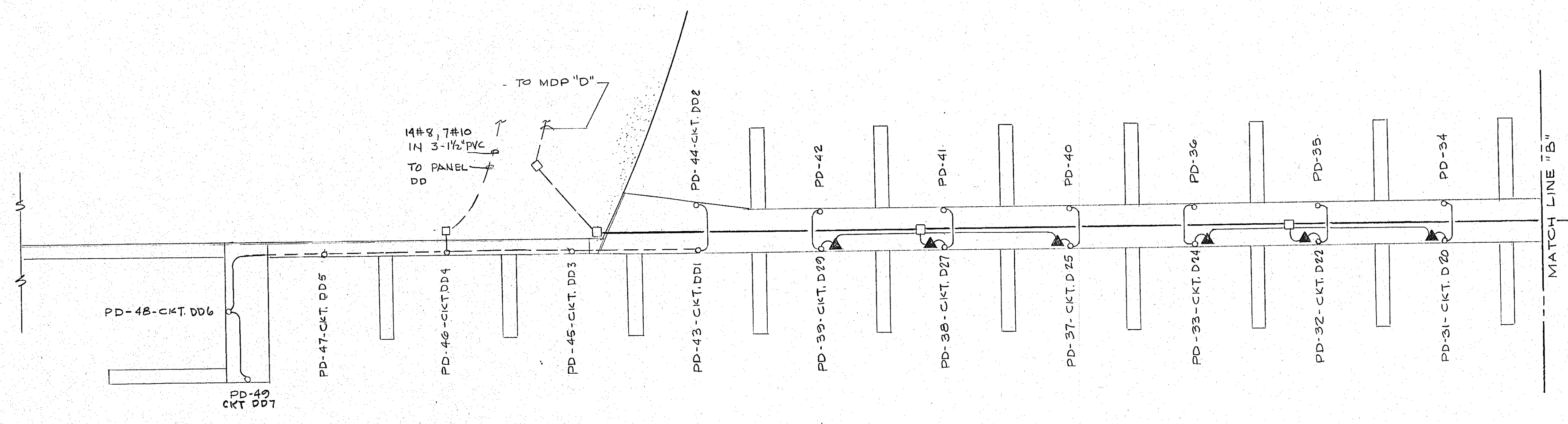
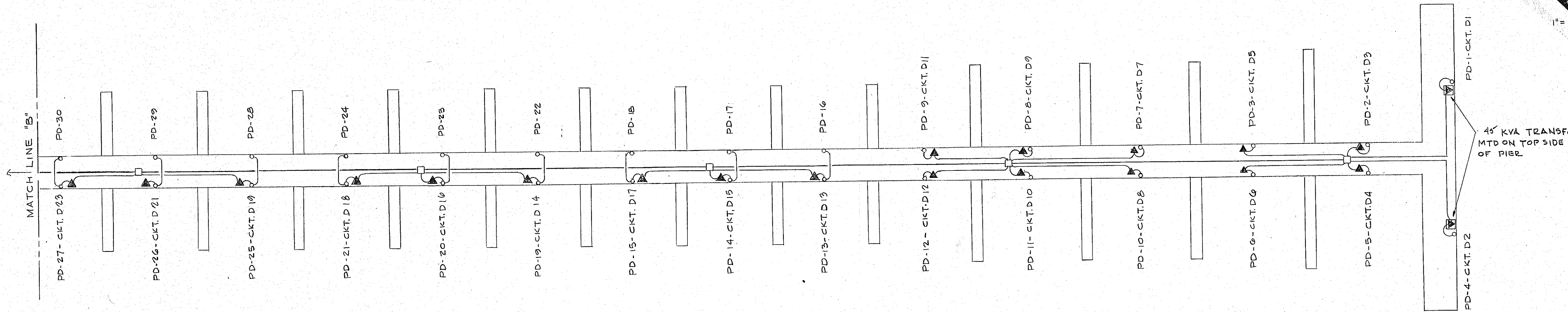
PIER "C"



1" = 20'

46 KVA TRANSF.
MTD ON TOP SIDE
OF PIER

NO.	DATE	REVISIONS



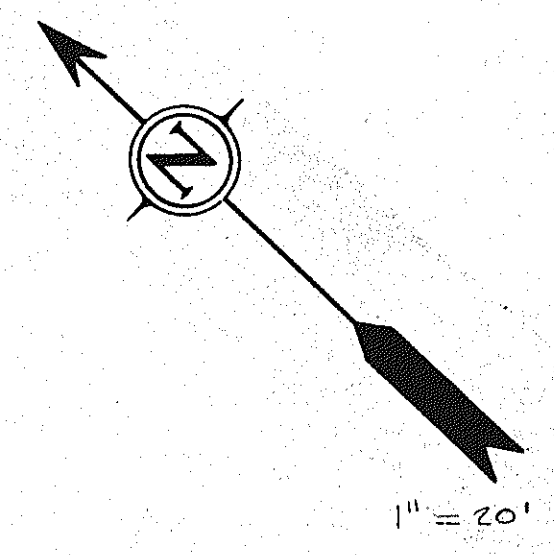
PIER "D"

REVISIONS

NO.	DATE	DESCRIPTION

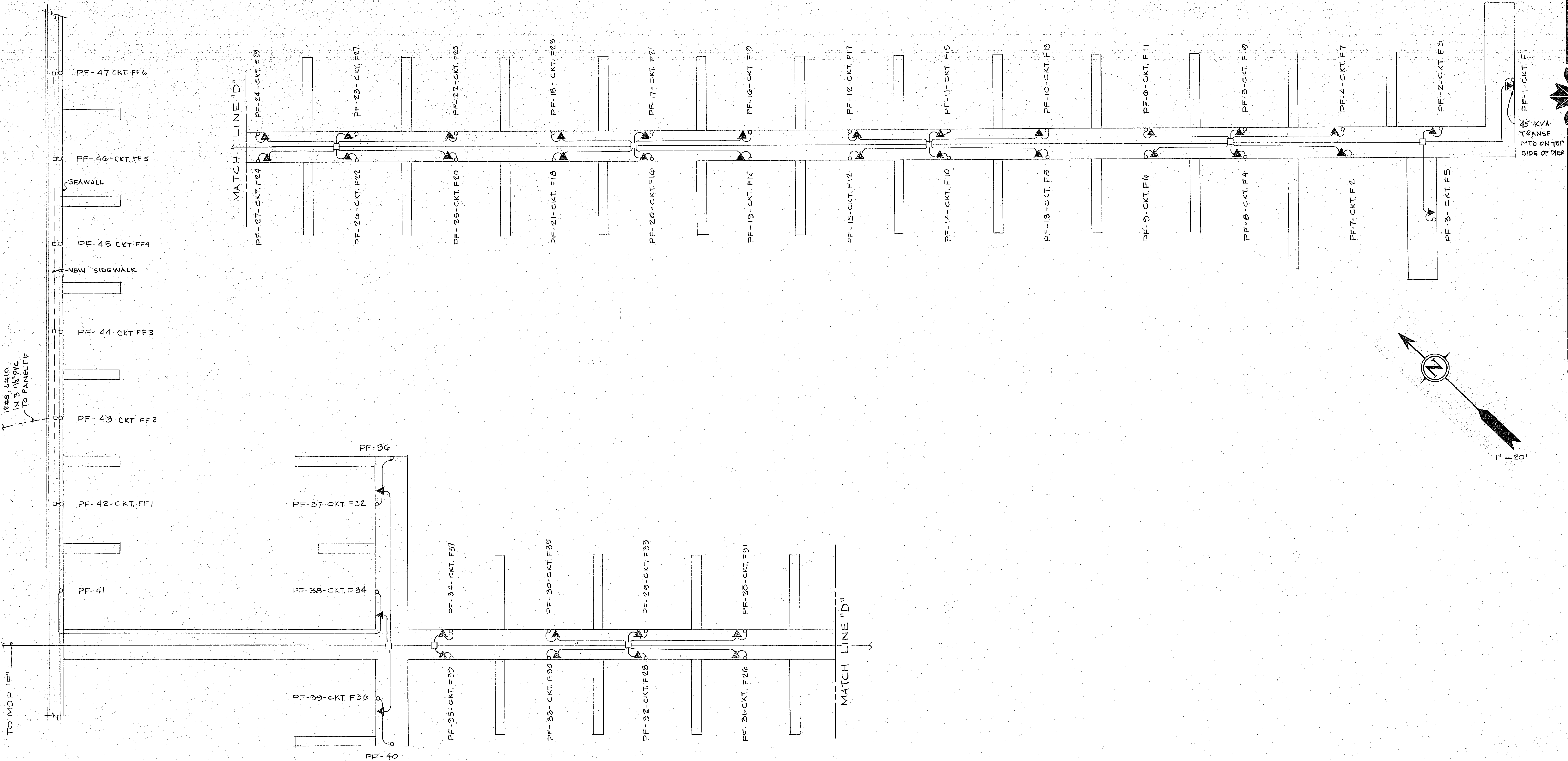


PIER "E"



REVISIONS

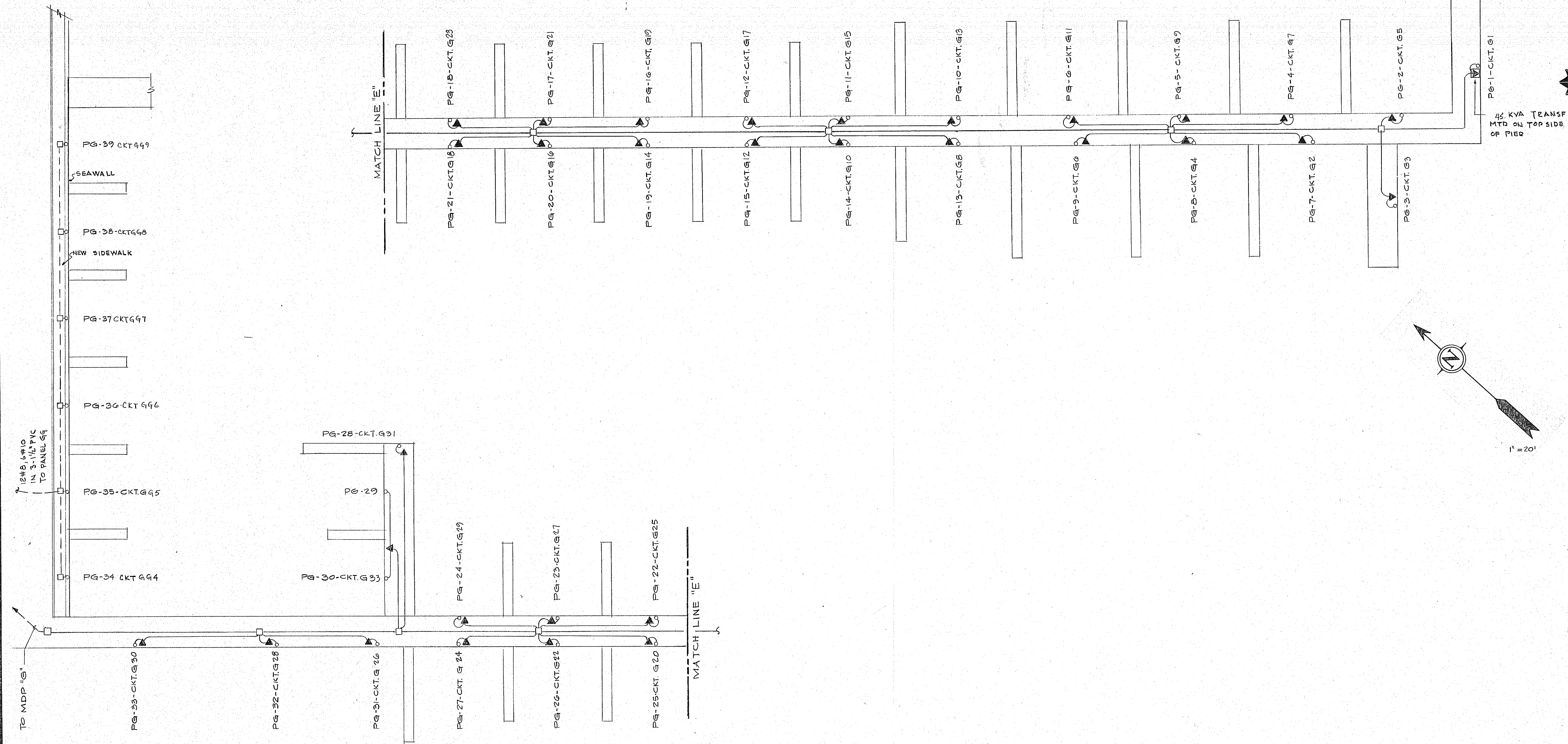
NO.	DATE	DESCRIPTION



PIER "F"

REVISIONS

NO.	DATE



PIER "G"

JOB No. B 3202
FILE ARCH. 3-28

RES. _____
DWN. _____
SHET _____

10 OF

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

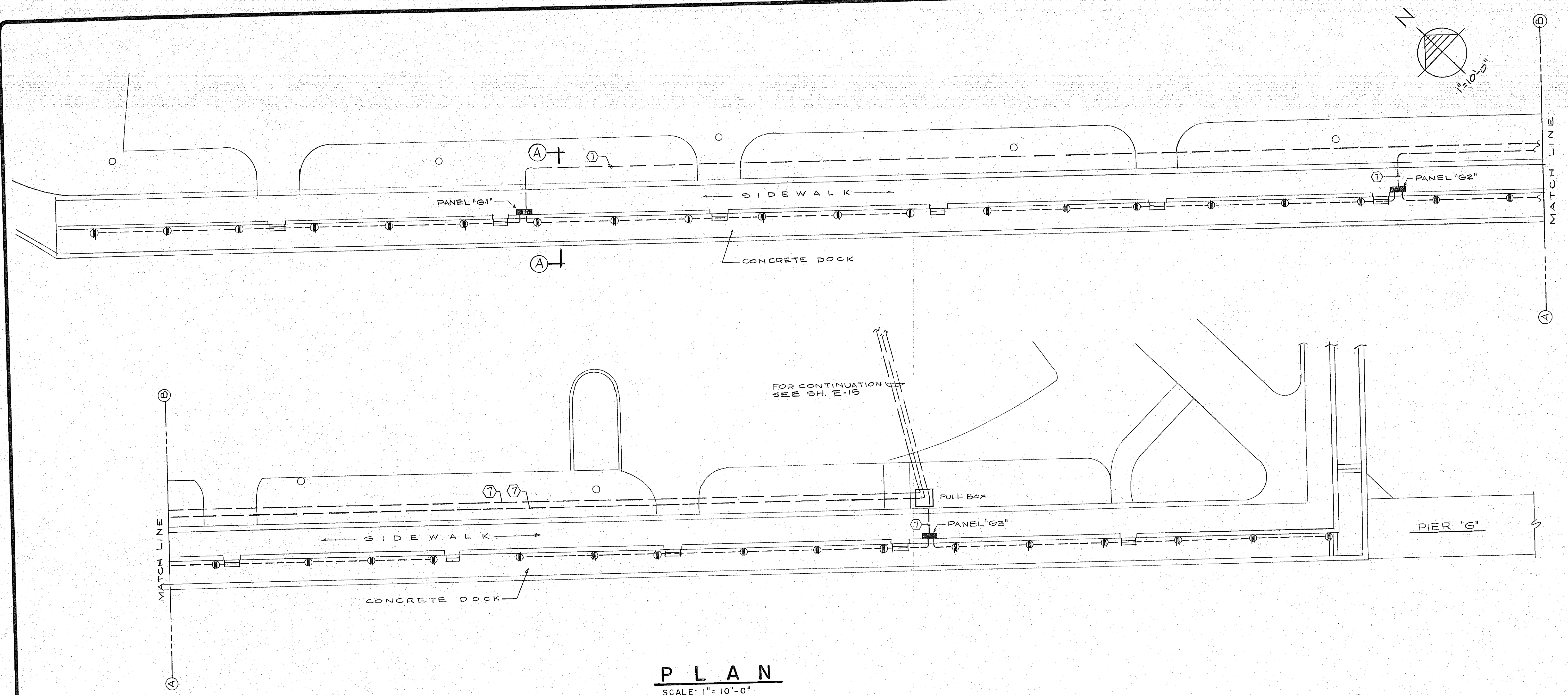
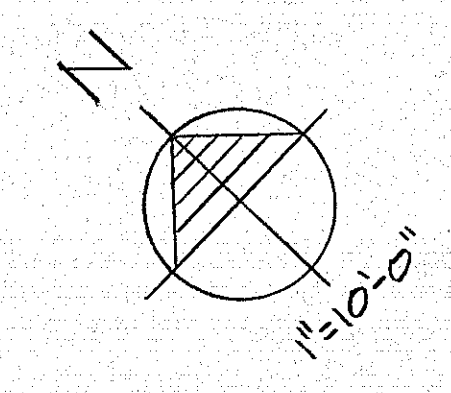
REVISIONS

NO. DATE

PIER "G" POWER PLAN



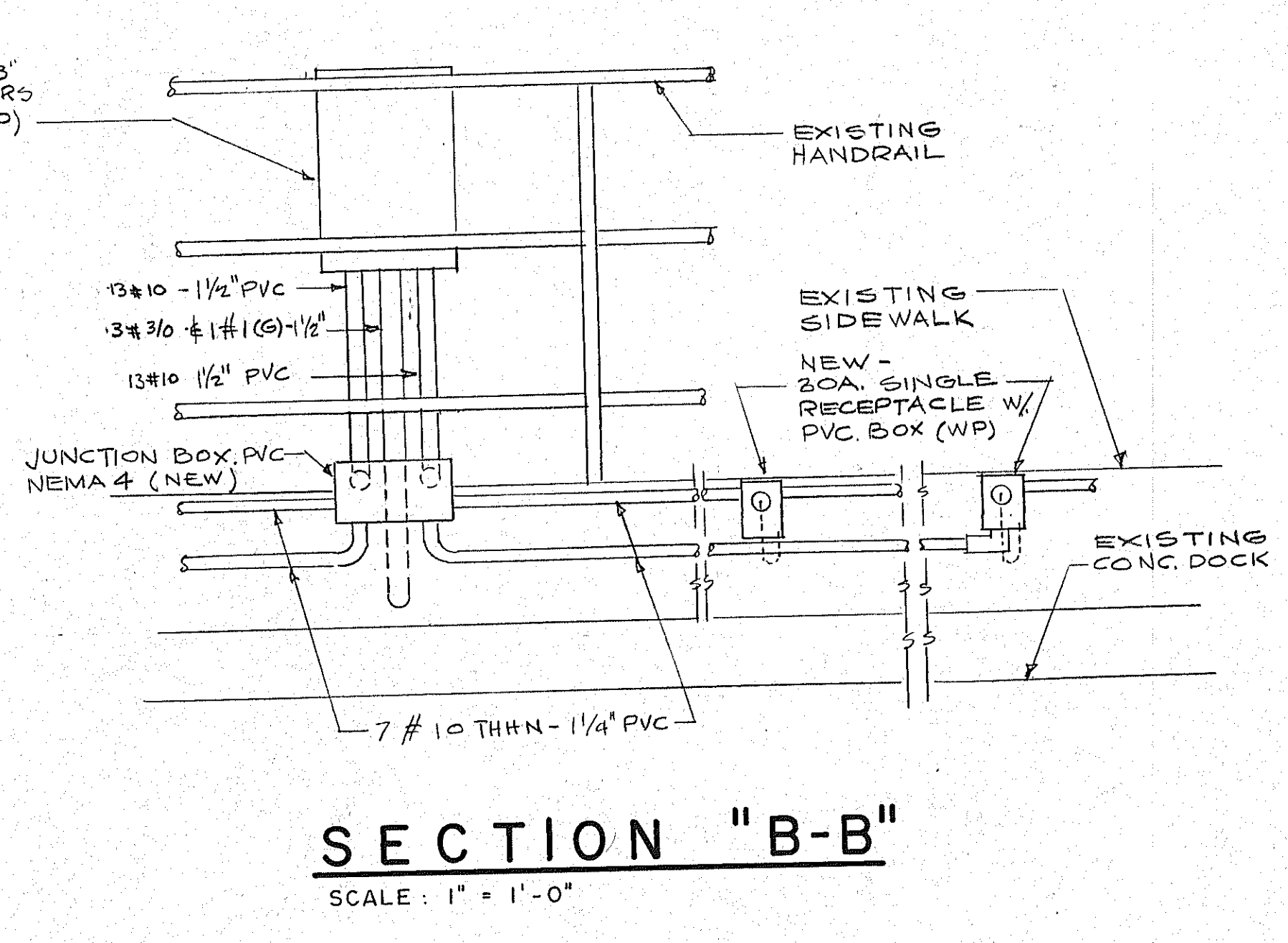
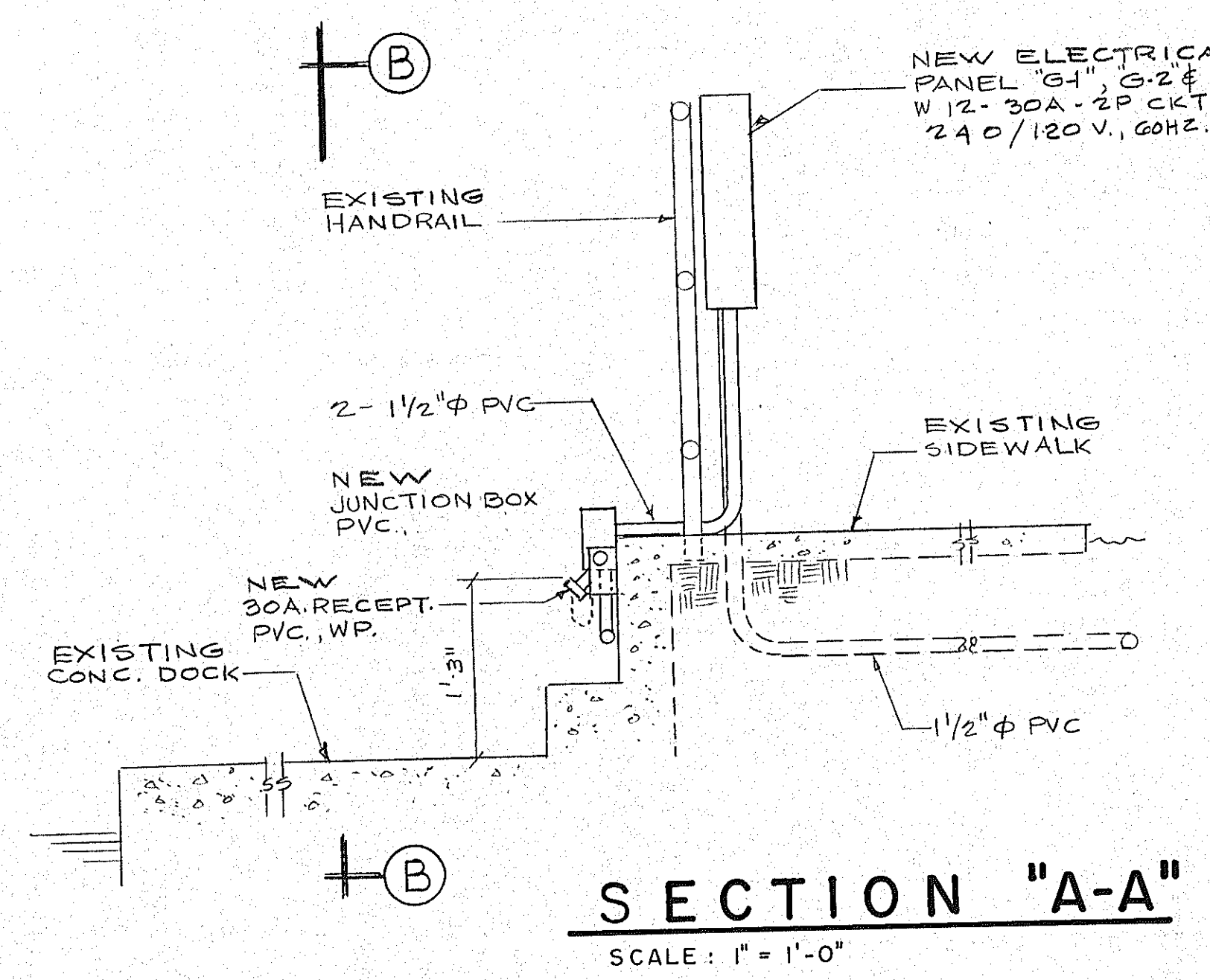
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MIAMI FLORIDA 33133



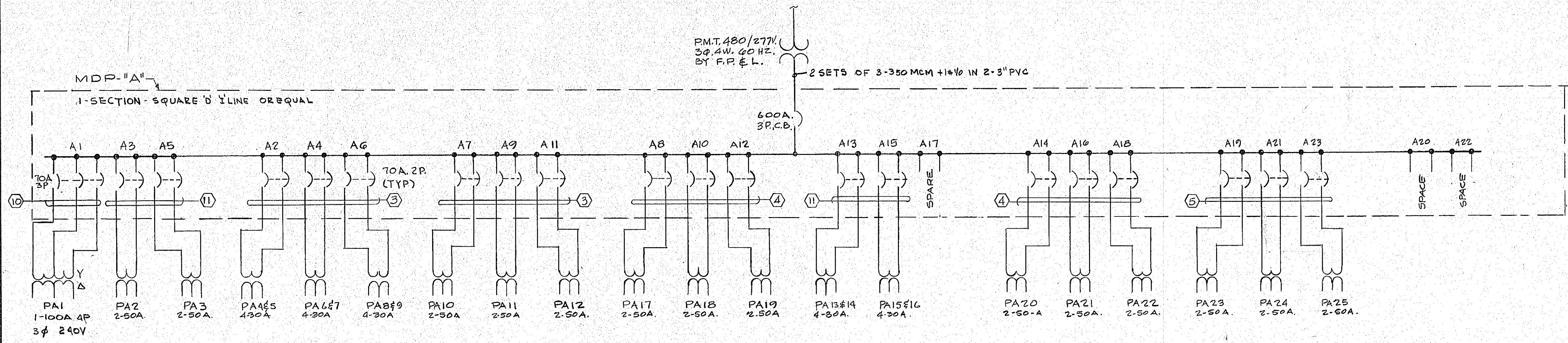
PLAN
 SCALE: 1" = 10'-0"

NOTES:

1. DISCONNECT & REMOVE ALL POWER WIRING & DEVICES ON COMMERCIAL DOCKS
2. INSTALL NEW PANELS & RECEPTACLES AS SHOWN & SECURE CONDUIT AGAINST WALL OF DOCK WITH CORROSION RESISTANT CLAMPS.



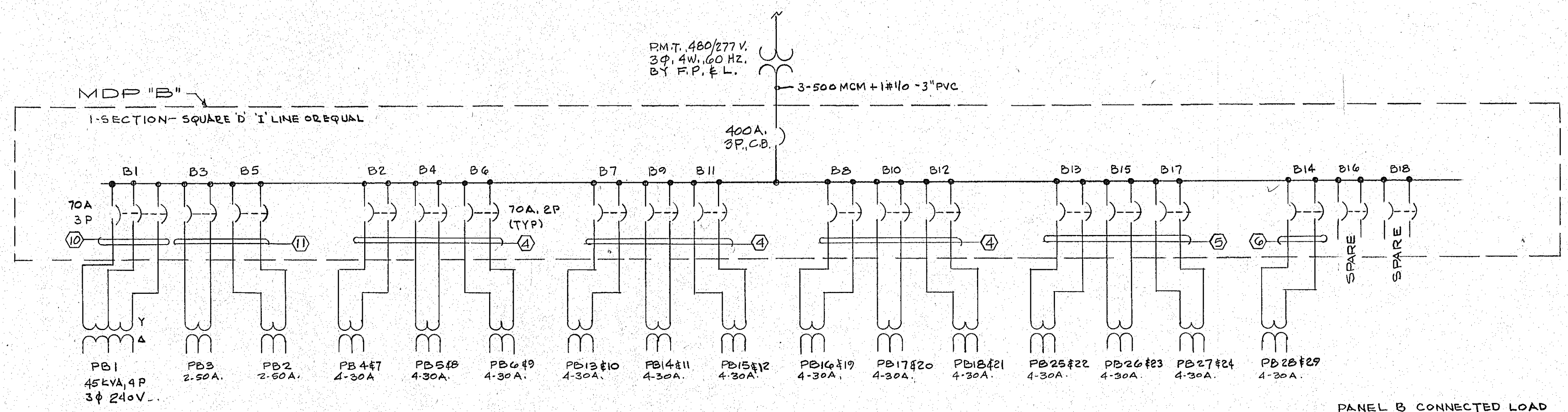
NO.	DATE



PIER "A" SINGLE LINE DIAGRAM

PANEL A CONNECTED LOAD

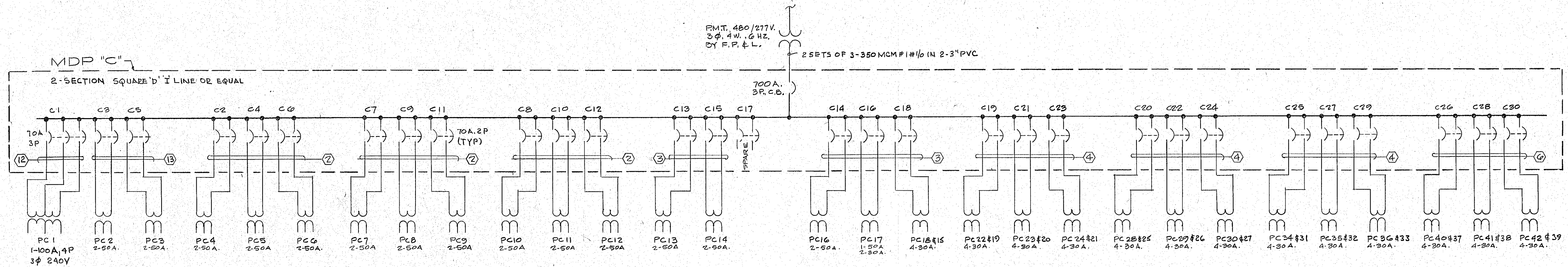
19 - 25 KVA @ 480V = 19 X 52A =	988A
1 - 37 1/2 KVA @ 480V = 1 X 45A =	45A
TOTAL CONN. LOAD	1033 A
DIV. 40%	X.4
	413.2A



PIER "B" SINGLE LINE DIAGRAM

PANEL B CONNECTED LOAD

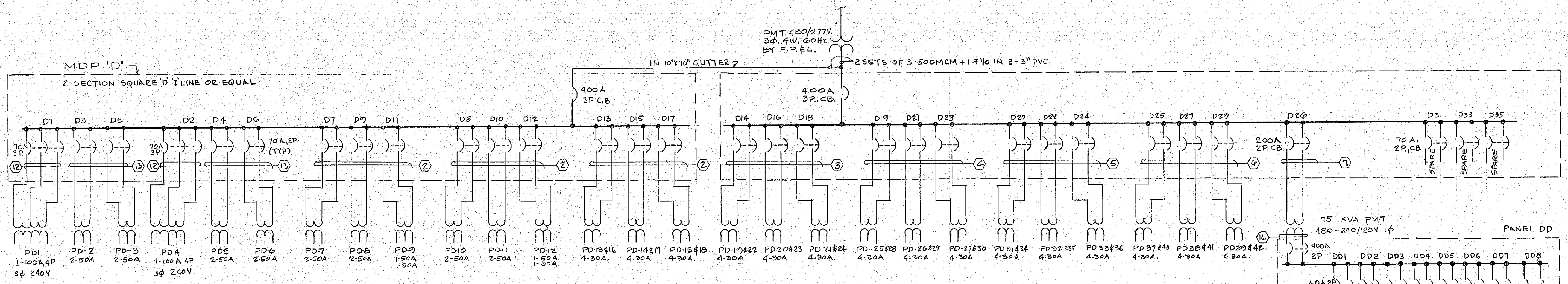
15 - 25 KVA @ 480V = 15 X 52A =	780A
1 - 37 1/2 KVA @ 480V = 1 X 45A =	45A
TOTAL CONN. LOAD	825A
DIV. 40%	X.4
	330A



PIER "C" SINGLE LINE DIAGRAM

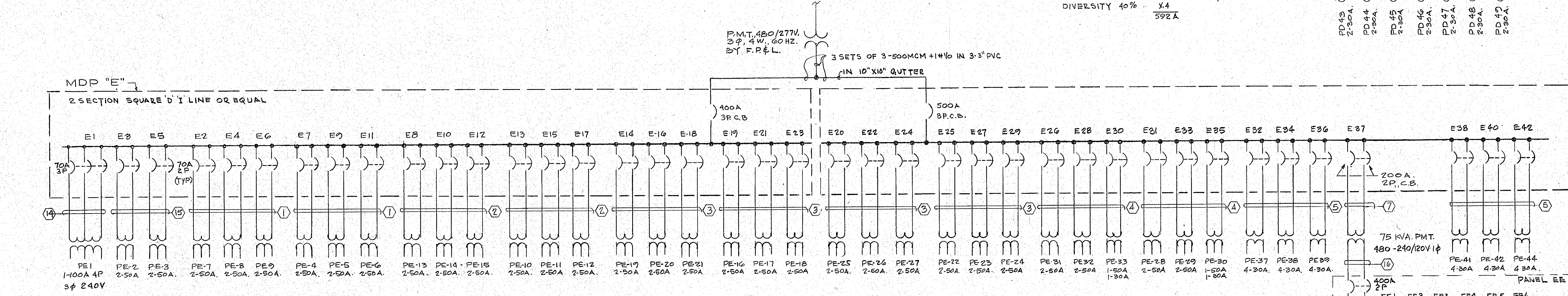
PANEL C CONNECTED LOAD

28 - 25 KVA @ 480V = 28 X 52A =	1456A
1 - 37 1/2 KVA @ 480V = 1 X 45A =	45A
TOTAL CONN. LOAD	1501A
DIV. 40%	X.4
	600A



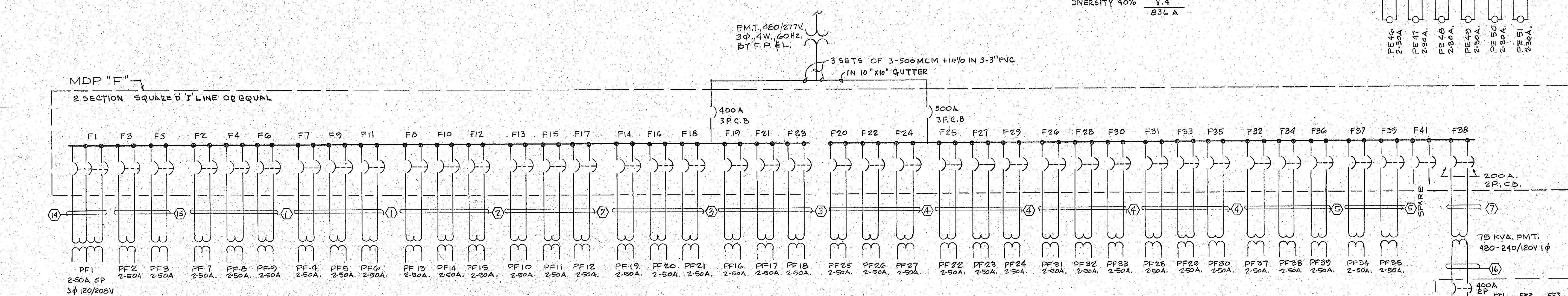
PIER "D" SINGLE LINE DIAGRAM

PANEL D CONNECTED LOAD
 $25 \cdot 25KVA @ 480V = 25 \times 52 = 1300A$
 $1 \cdot 75KVA @ 480V = 1 \times 90 = 90A$
 $2 \cdot 37\frac{1}{2}KVA @ 480V = 2 \times 45 = 90A$
1480A
 DIVERSITY 40% $\frac{1.4}{592A}$



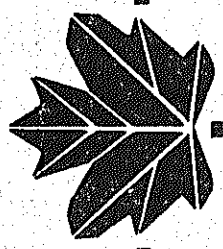
PIER "E" SINGLE LINE DIAGRAM

PANEL E CONNECTED LOAD
 $38 \cdot 25KVA @ 480V = 38 \times 52 = 1956A$
 $1 \cdot 75KVA @ 480V = 1 \times 90 = 90A$
 $1 \cdot 37\frac{1}{2}KVA @ 480V = 1 \times 45 = 45A$
2091A
 DIVERSITY 40% $\frac{1.4}{836A}$



PIER "F" SINGLE LINE DIAGRAM

PANEL F CONNECTED LOAD
 $37 \cdot 25KVA @ 480V = 37 \times 52 = 1924A$
 $1 \cdot 75KVA @ 480V = 1 \times 90 = 90A$
 $1 \cdot 37\frac{1}{2}KVA @ 480V = 1 \times 45 = 45A$
2059A
 DIVERSITY 40% $\frac{1.4}{824A}$



Greenleaf-Telesca
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2850 SW 27th AVENUE
MIAMI, FLORIDA 33133

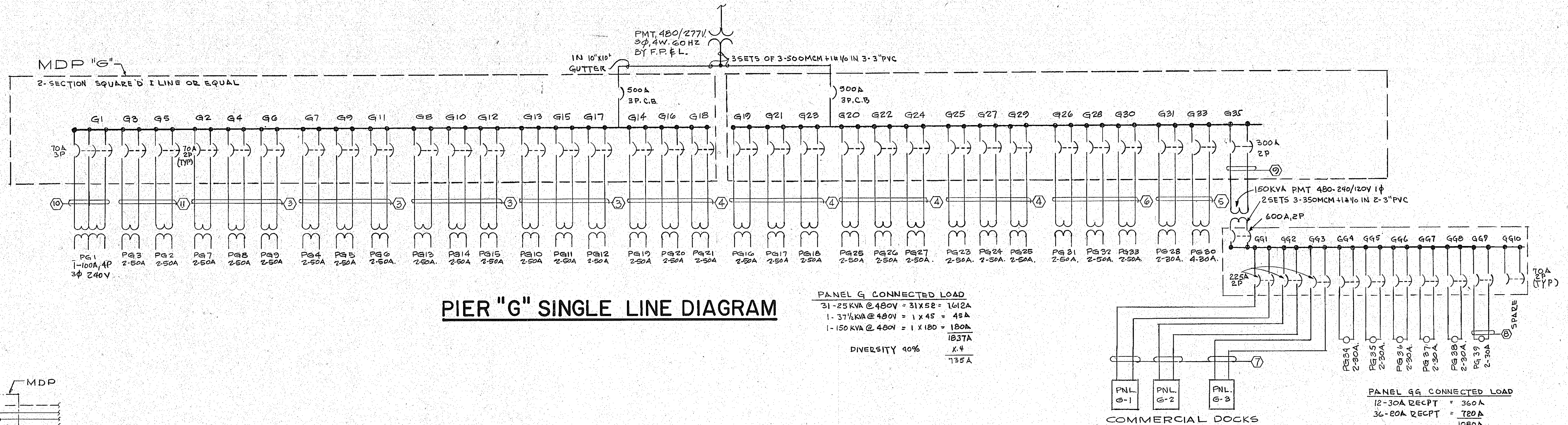
SINGLE LINE DIAGRAM PIER "G"
TYPICAL WIRINGS & SCHEDULE

REVISIONS

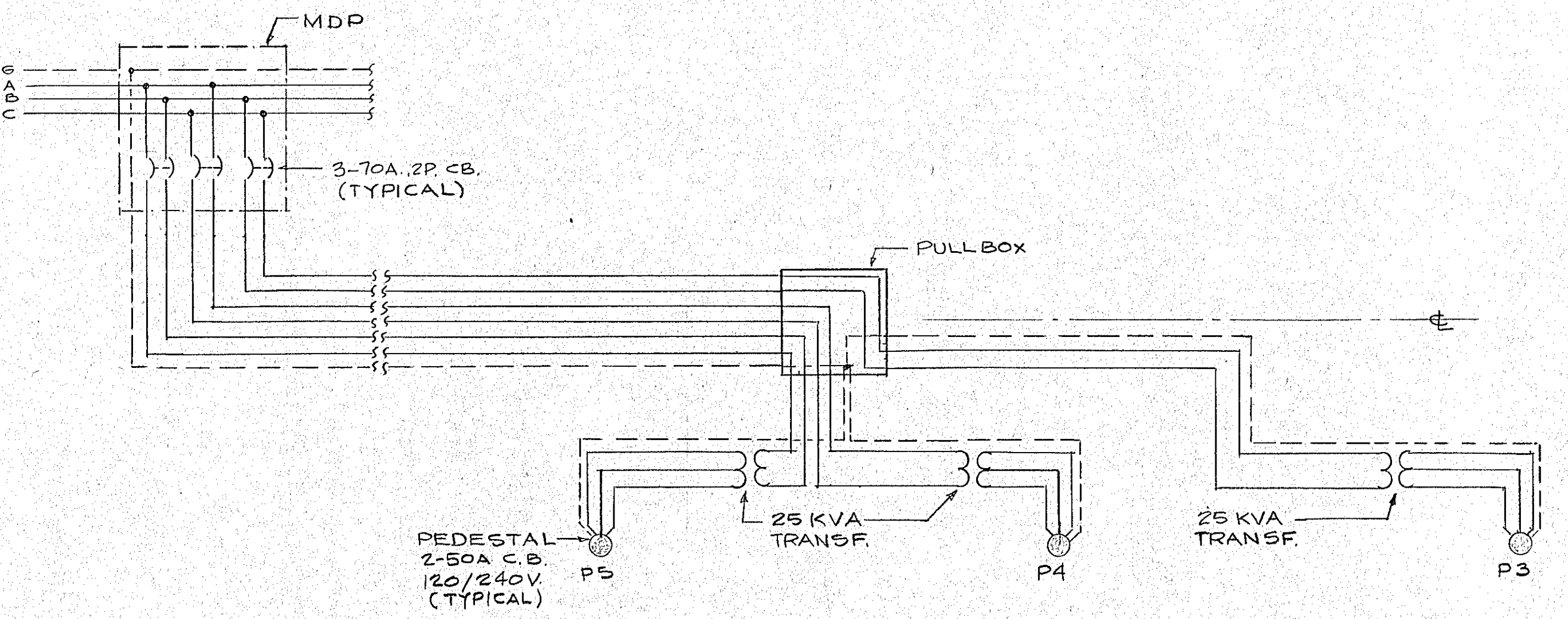
NO. DATE

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

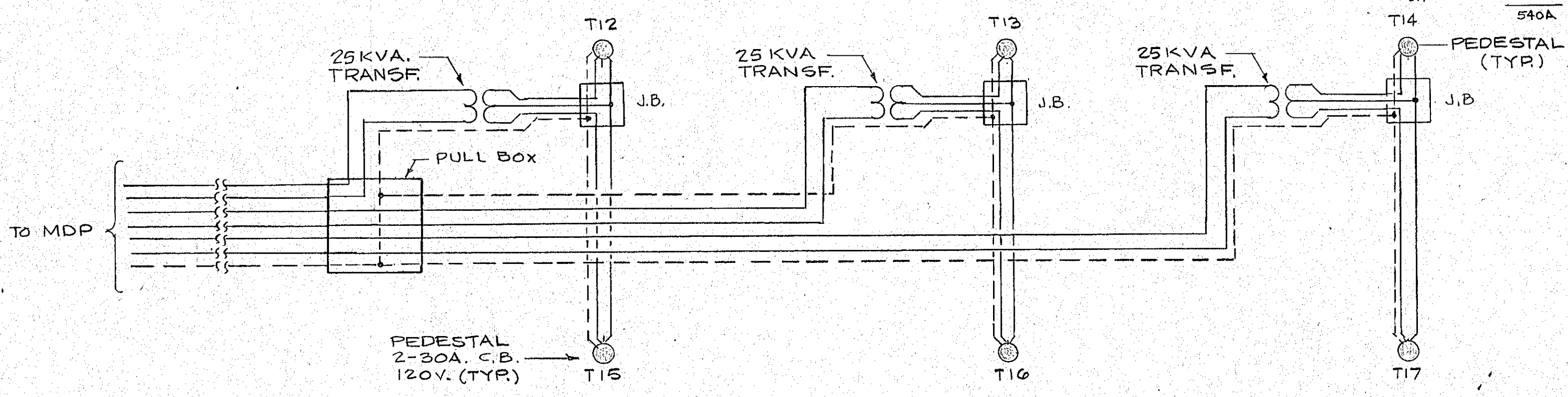
DES. CHK'D. DWN. SHEET OF
E-14



PIER "G" SINGLE LINE DIAGRAM



TYPICAL PIER-50 AMP, 120/240V. CKT. WIRING

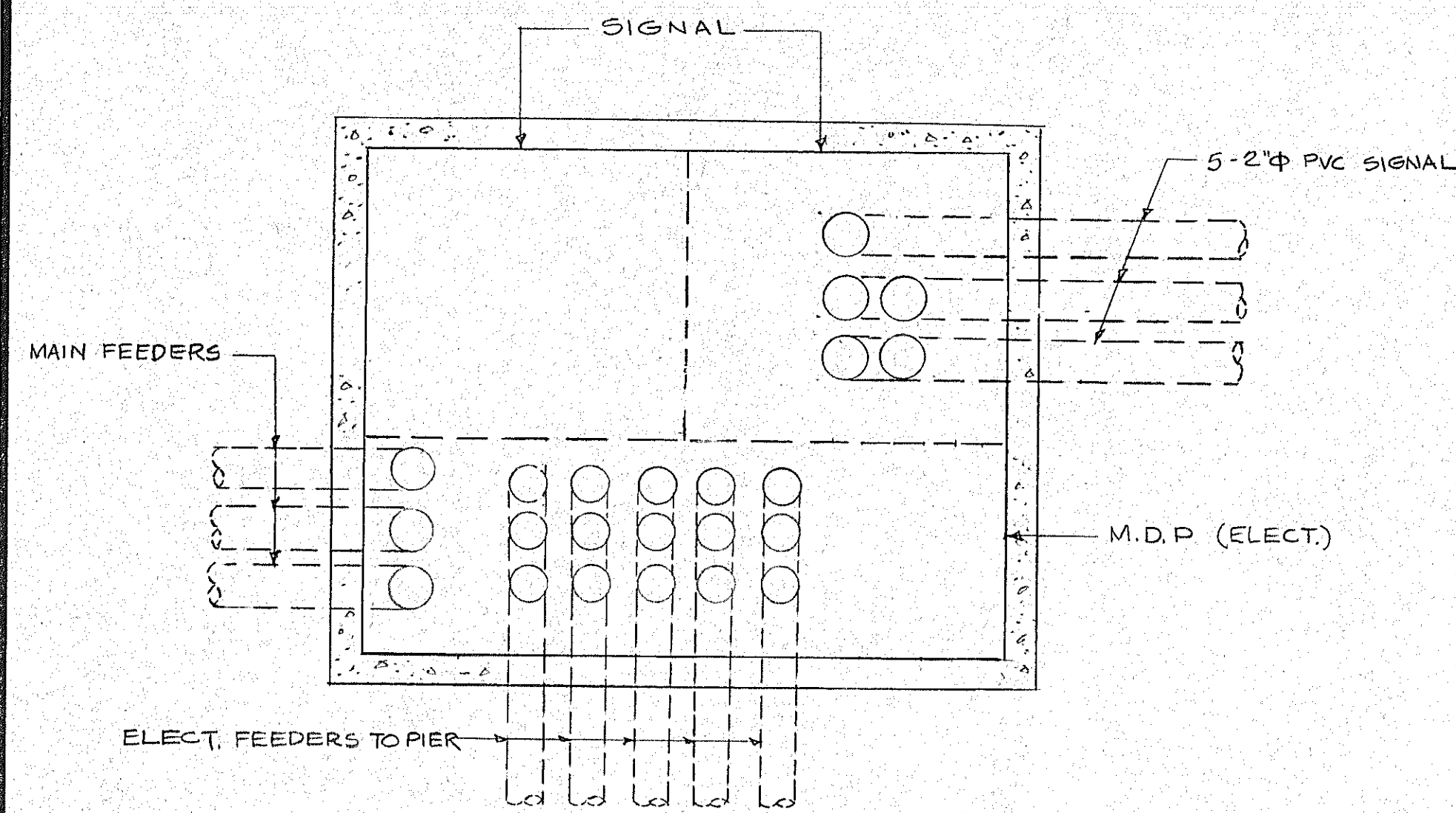


TYPICAL PIER-30 AMP, 120V. CKT. WIRING

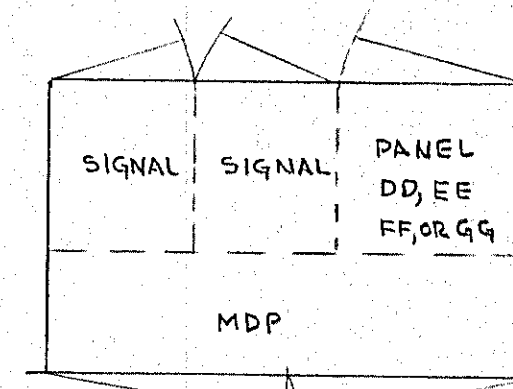
WIRING & CONDUIT SCHEDULE			
NO	WIRE	CONDUIT	REMARKS
①	6 # 1/0 + 1 # 4 (G)	2" PVC	WIRING FROM MDP TO PIER TRANSFORMERS
②	6 # 1 + 1 # 4 (G)	2" PVC	" " " " " "
③	6 # 2 + 1 # 4 (G)	1 1/2" PVC	" " " " " "
④	6 # 4 + 1 # 6 (G)	1 1/4" PVC	" " " " " "
⑤	6 # 6 + 1 # 8 (G)	1 1/4" PVC	" " " " " "
⑥	6 # 8 + 1 # 8 (G)	1" PVC	" " " " " "
⑦	3 # 3/0 + 1 # 2 (G)	1 1/2" PVC	" " " " 75 KVA TRANSFORMER
⑧	2 # 8 + 1 # 10 (G)	1" PVC	" " " " PANEL TO PEDESTALS
⑨	3 # 250 MCM & 1 # 1/0 (G)	2" PVC	" " " " FROM MDP TO 150-KVA TRANSFORMER
⑩	3 # 2 + 1 # 4 (G)	1 1/4" PVC	" " " " 45 KVA "
⑪	4 # 2 + 1 # 4 (G)	1 1/4" PVC	" " " " PIER "
⑫	3 # 1 + 1 # 4 (G)	1 1/2" PVC	" " " " 45 KVA "
⑬	4 # 1 + 1 # 4 (G)	1 1/2" PVC	" " " " PIER "
⑭	3 # 1/0 + 1 # 4 (G)	1 1/2" PVC	" " " " 45 KVA "
⑮	4 # 1/0 + 1 # 4 (G)	1 1/2" PVC	" " " " PIER "
⑯	3 # 500 MCM + 1 # 1/0 (G)	3" PVC	" " " " TRANSFORMER TO PANEL

SYMBOLS	
SYMBOL	DESCRIPTION
	COMBINATION: MAIN DISTRIBUTION PANEL & SIGNAL CABINETS
	PAD MOUNTED TRANSFORMER, PROVIDED BY F.P. & L. CO
	PEDESTAL
	PIER TRANSFORMERS 25 & 37 1/2 KVA
	PAD MTD. TRANSF. 75 & 150 KVA: BY CONTRACTOR
	CONDUIT, PVC
	GROUND WIRE
	CKT. BKR. (CIRCUIT BREAKER), 2 POLE
	TRANSFORMER
	JUNCTION BOX, PVC
	PULL BOX, ELECTRICAL
	PULL BOX, SIGNAL

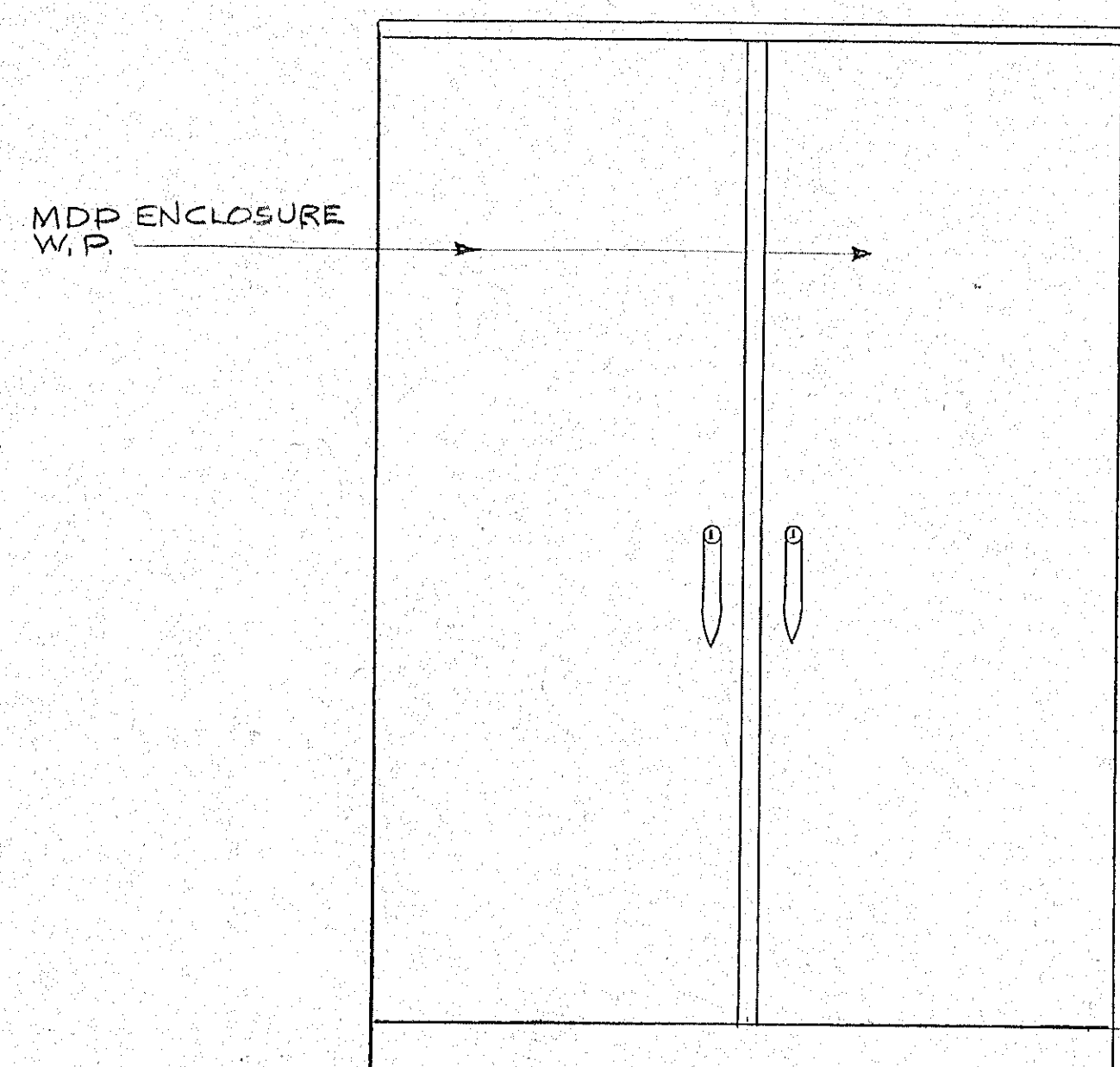
JOB No. B 3202
FILE ARCH. 3-28



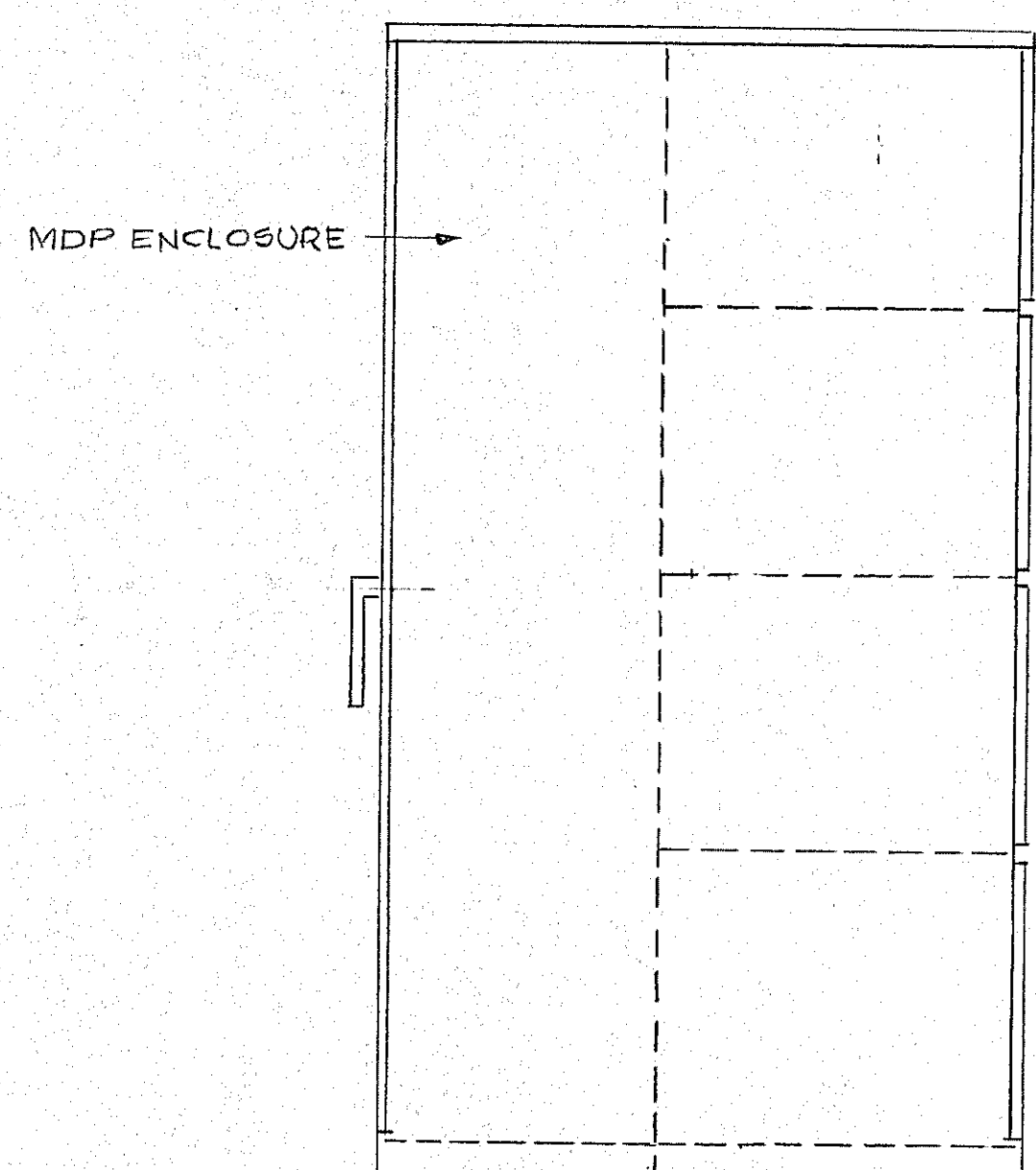
PLAN



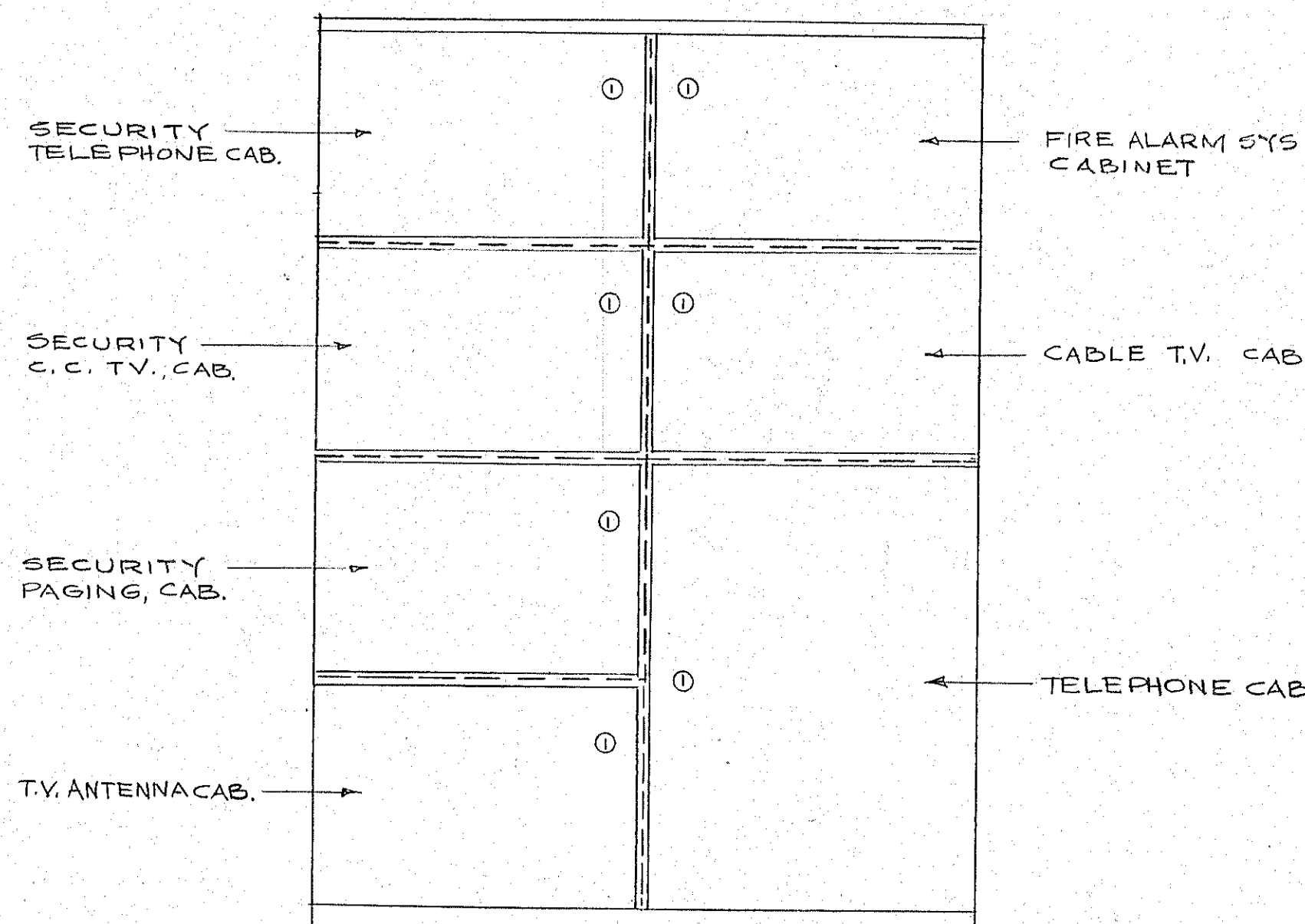
Door SWING N.T.S.



FRONT N.T.S.



SIDE VIEW N.T.S.

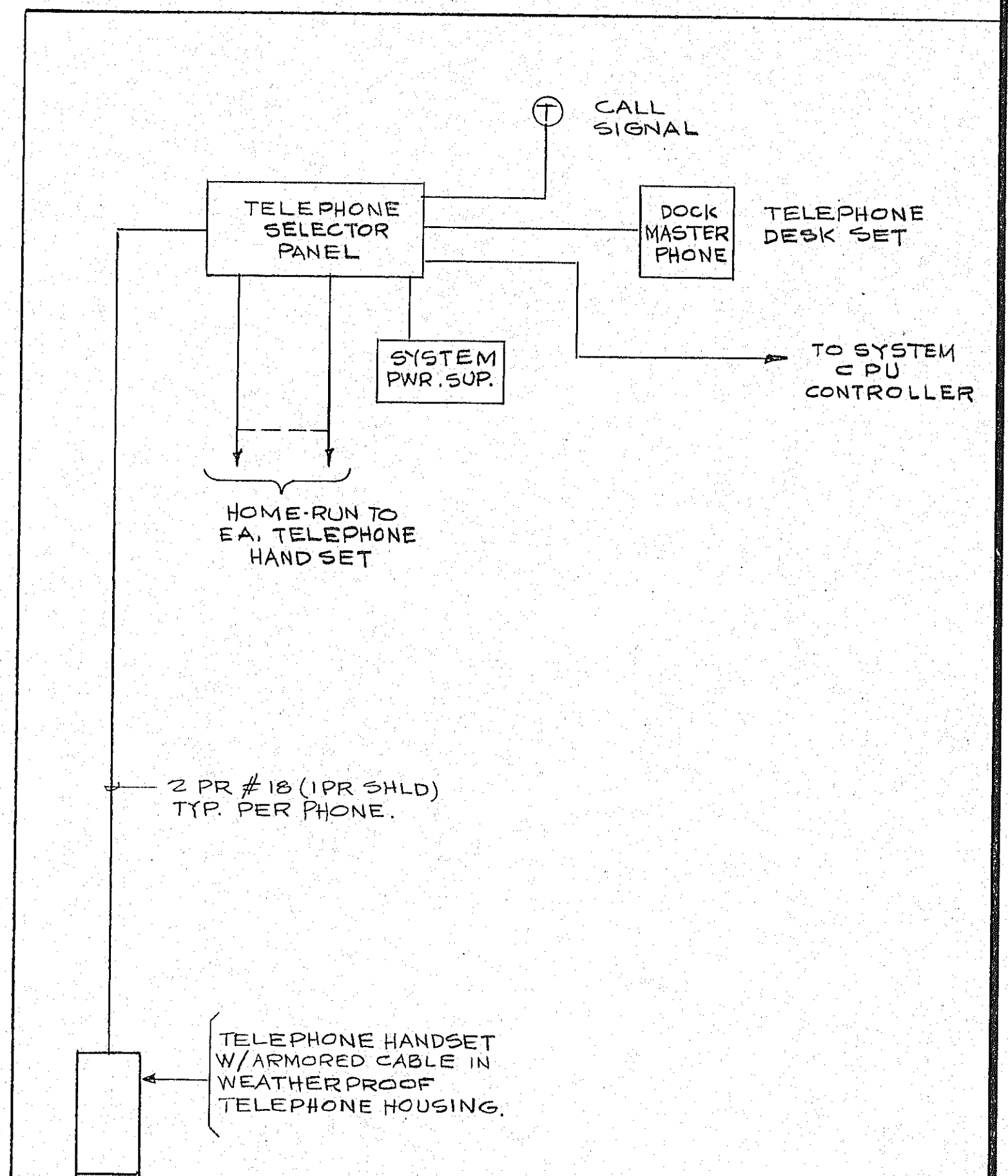


REAR VIEW N.T.S.

M.D.P. & SIGNAL-COMBINATION ENCLOSURE

NOTES:

- ① MDP (MAIN DISTRIBUTION PANEL) SHALL BE INSTALLED IN A COMBINATION WEATHERPROOF ENCLOSURE NEMA 3E.
- ② SEVEN SIGNAL ENCLOSURES SHALL BE INSTALLED BEHIND MDP; THE SEVEN ENCLOSURES SHALL BE NEMA 3E.
- ③ ENCLOSURES SHALL BE MADE OF PLASTIC OR FIBERGLASS.
- ④ ENCLOSURE SIZES:
 PIER A - 8'-6" H X 3'-0" W X 3'-0" D
 PIER B - 8'-6" H X 3'-0" W X 3'-0" D
 PIER C - 8'-6" H X 5'-0" W X 3'-0" D
 PIER D - 8'-6" H X 5'-0" W X 3'-0" D
 PIER E - 8'-6" H X 5'-0" W X 3'-0" D
 PIER F - 8'-6" H X 5'-0" W X 3'-0" D
 PIER G - 9'-0" H X 6'-0" W X 3'-0" D
 PANEL DD MTD IN REAR
 " EE " " "
 " FF " " "
 " GG " " "



SYSTEM OPERATION:

WHEN A PIER HANDSET IS REMOVED FROM THE CRADLE, A TONE WILL SOUND AND SWITCH LAMP WILL LIGHT AT DOCK MASTERS OFFICE. A RING TONE WILL BE HEARD IN THE PIER HANDSET UNTIL THE CALL IS ACKNOWLEDGED. ANY NUMBER OF PIER STATIONS MAY SIMULTANEOUSLY COMMUNICATE W/ THE DOCK MASTER. WHEN A PIER STATION IS ACTIVATED A SIGNAL SHALL BE SENT TO THE SYSTEM CPU TO CAUSE THE PROPER CAMERA TO BE VIEWED.

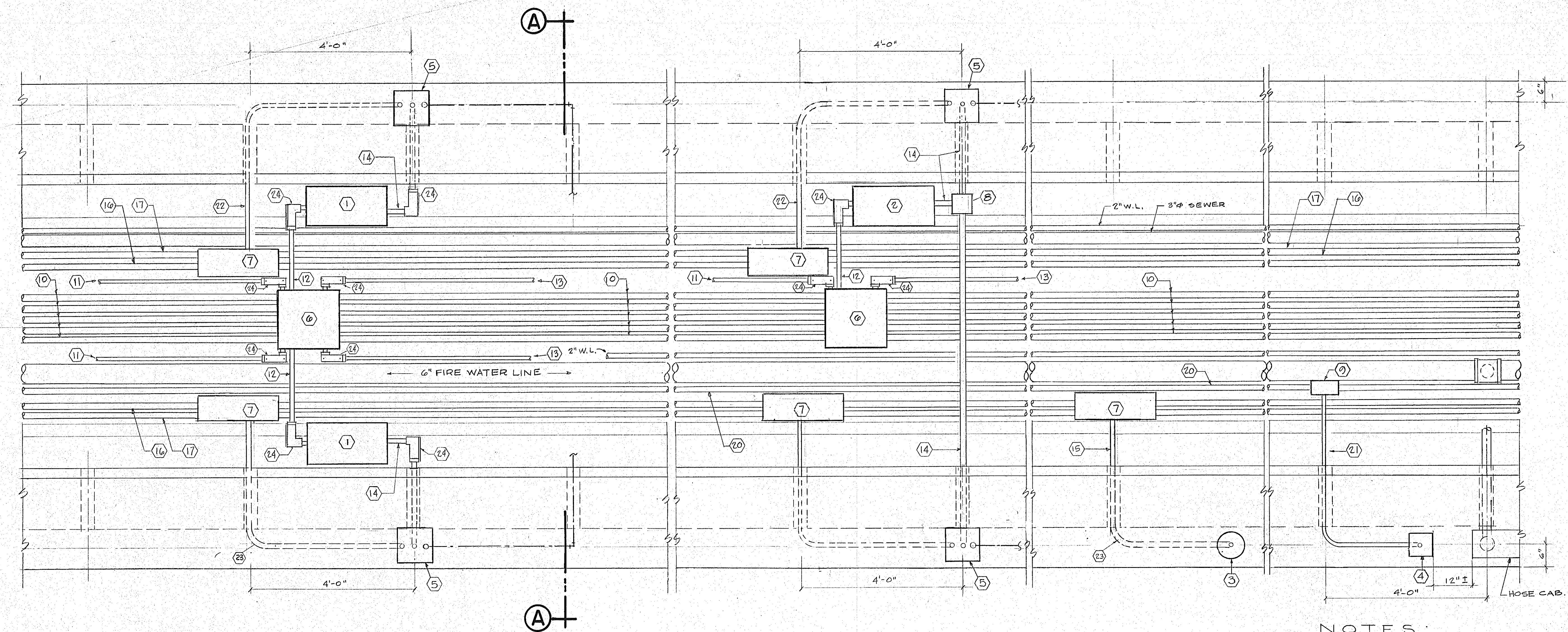
PAGING TELEPHONE SYSTEM

REVISIONS

NO.	DATE	DESCRIPTION

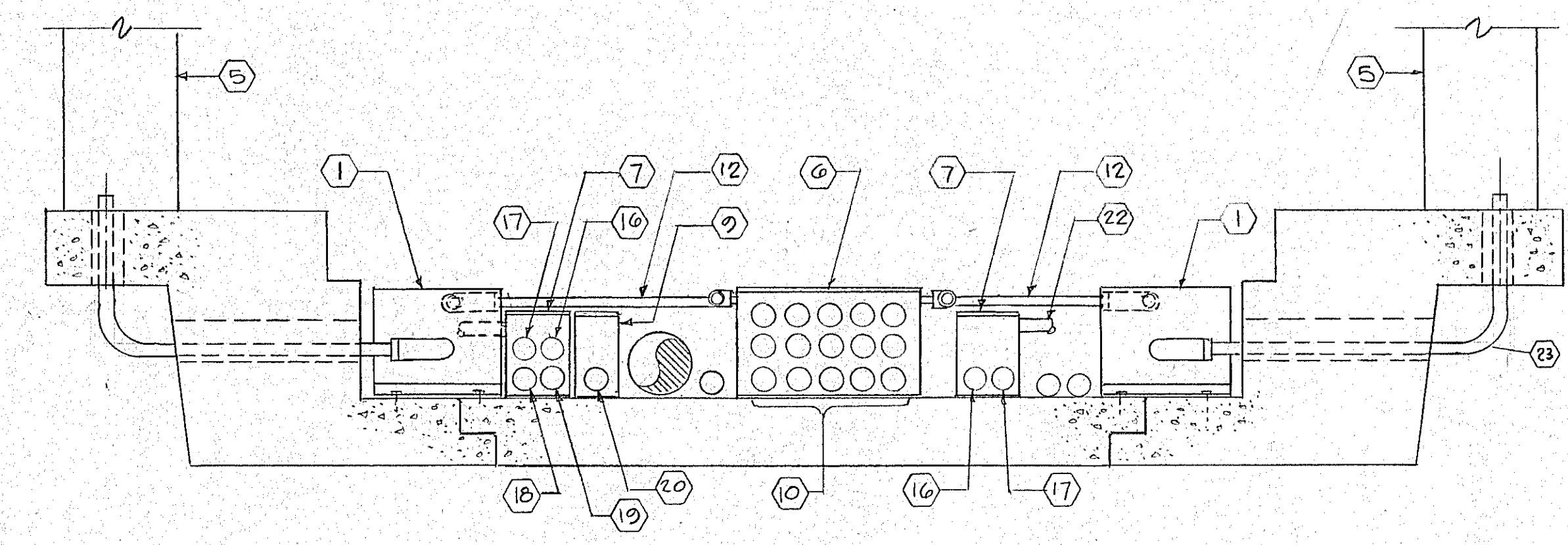
REVISIONS

NO.	DATE



PART PLAN-TYPICAL PIER EQUIPMENT INSTALLATION
 SCALE: 3/4" = 1'-0"

- NOTES:**
1. PLAN WITHOUT DECK
 2. NOT SHOWN CONN. FROM DESIGNATED PEDESTAL TO F.A. BEACON LT. SEE SH. E24
 3. NOT SHOWN CONN. FROM DESIGNATED PEDESTAL TO LADDER LT. SIGN ON FINGER PIER, SEE SCHEDULE SH. E 16



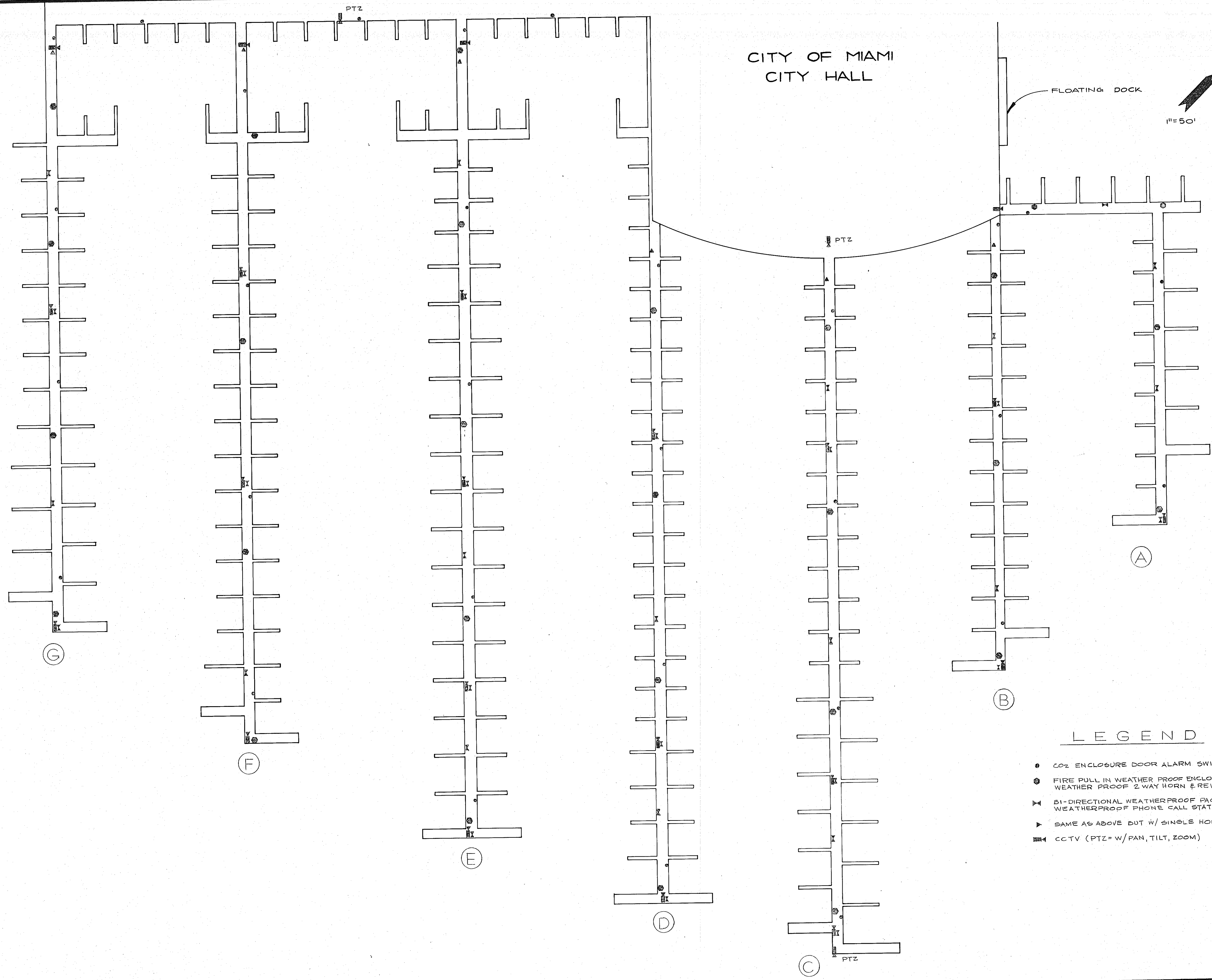
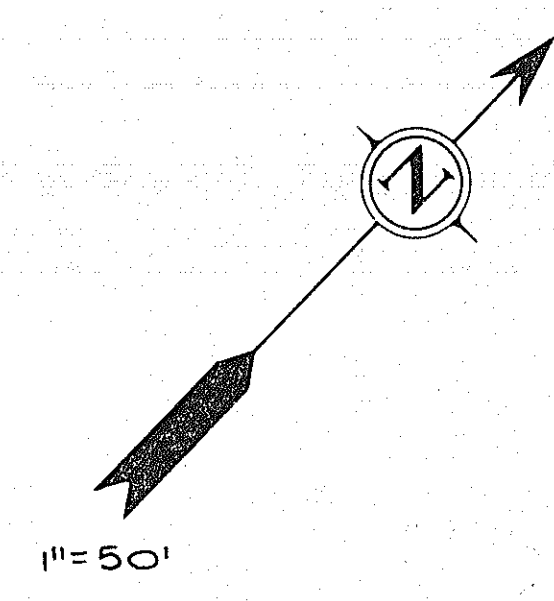
SECTION A-A
 SCALE: 1" = 1'-0"

EQUIPMENT INSTALLATION SCHEDULE					
NO.	DESCRIPTION	REMARKS	NO.	DESCRIPTION	REMARKS
1	TRANSFORMER, 25 KVA. (50 A. CIRCUIT)		18	SIGNAL, 2"φ (TEL. SEC.) PVC	
2	TRANSFORMER, 25 KVA. (30 A. CIRCUIT)		19	SIGNAL, 2"φ (C.C.TV) PVC	
3	PAGING & SECURITY POLE (@EVERY 240 FT. OC.)		20	CONDUIT 2"φ (FIRE ALARM SYS.) PVC	
4	PEDESTAL (FIRE ALARM SYS.-@ EVERY 240 FT. OC.)		21	CONDUIT 1"φ (FIRE ALARM SYS.) PVC	
5	PEDESTAL, LTO & SERVICE UTILITIES.		22	CONDUIT 1"φ (TEL. & CATV SERV.) PVC	
6	ELECT. PULL BOX, 18" X 18" X 10", PVC. (WP)		23	ELBOW-STD RADIUS	
7	SIGNAL, JUNCTION BOX, 24" X 8" X 8", PVC		24	"L" CONDULET 1"(OR AS PER CONDUIT SIZE), PVC	
8	ELECT. JUNCTION BOX, 6" X 6" X 4", PVC				
9	F.A., JUNCTION BOX, 6" X 4" X 8" - PVC				
10	ELECT. CONDUIT, 3φ, PRI., PVC				
11	ELECT. CONDUIT (PRI., PH. "A") PVC				
12	ELECT. CONDUIT (PRI., PH. "B") PVC				
13	ELECT. CONDUIT (PRI., PH. "C") PVC				
14	ELECT. CONDUIT (SEC.) PVC				
15	SIGNAL 1"φ (C.C.TV & SEC. TEL.) PVC				
16	SIGNAL 2"φ CONDUIT (CA.TV) PVC				
17	SIGNAL 2"φ CONDUIT (TEL. SERV.) PVC				

REVISIONS

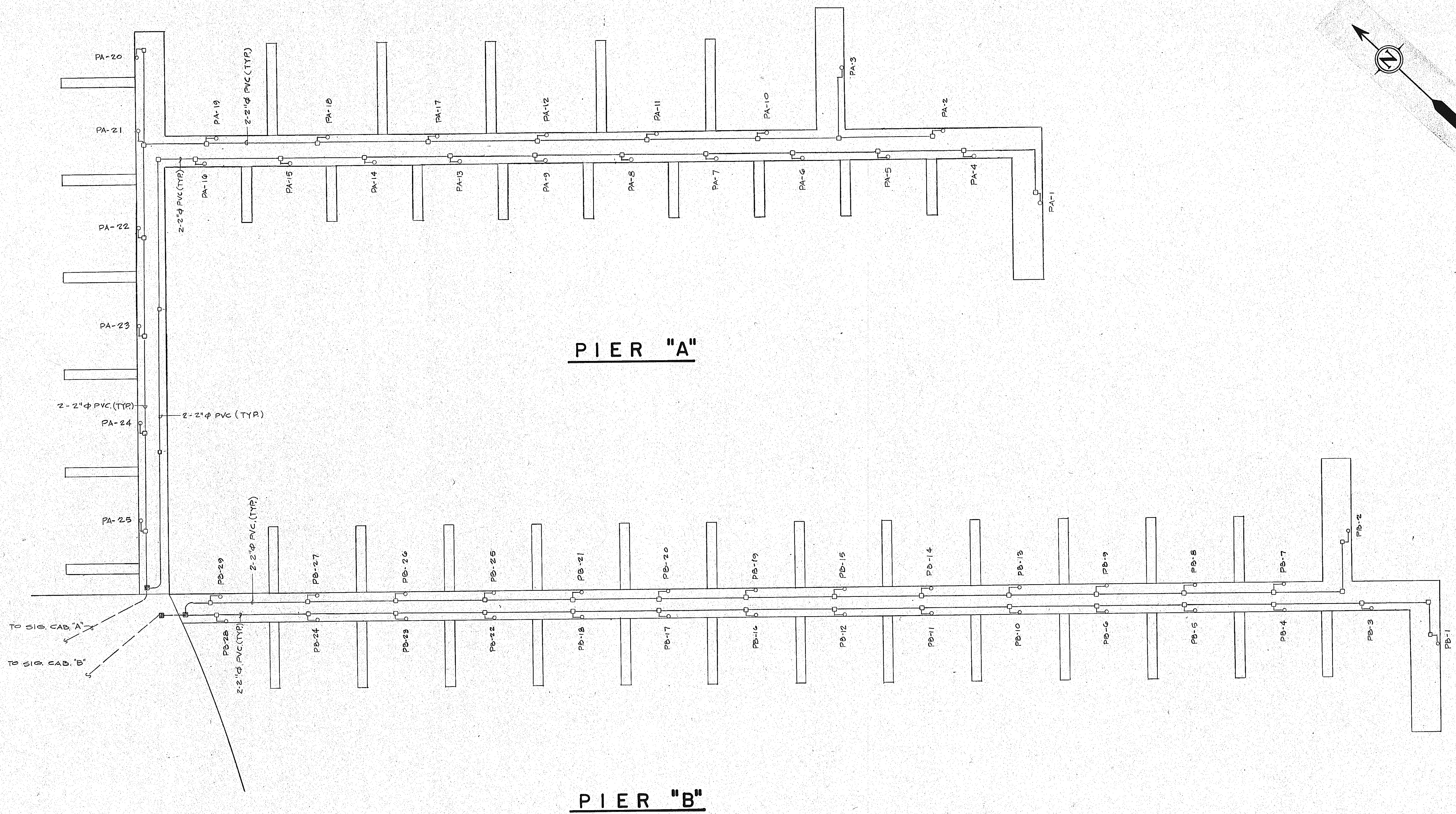
NO.	DATE	DESCRIPTION

CITY OF MIAMI
 CITY HALL



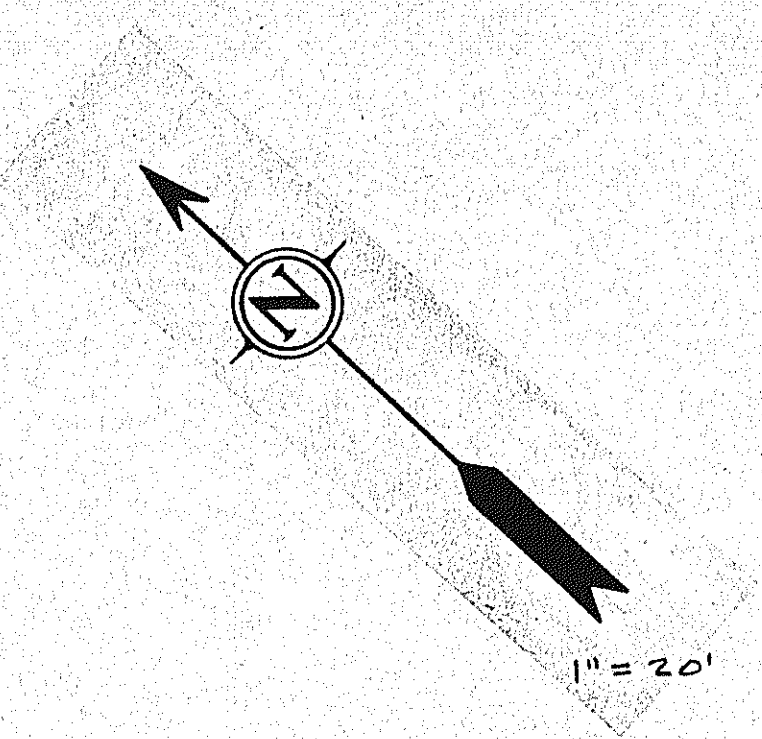
LEGEND

- CO2 ENCLOSURE DOOR ALARM SWITCH.
- ⊗ FIRE PULL IN WEATHER PROOF ENCLOSURE W/
WEATHER PROOF 2 WAY HORN & REVOLVING DEACON.
- ⋈ BI-DIRECTIONAL WEATHERPROOF PAGING HORN W/
WEATHERPROOF PHONE CALL STATION.
- ▶ SAME AS ABOVE BUT W/ SINGLE HORN.
- ◀ CCTV (PTZ= W/PAN, TILT, ZOOM)



PIER "A"

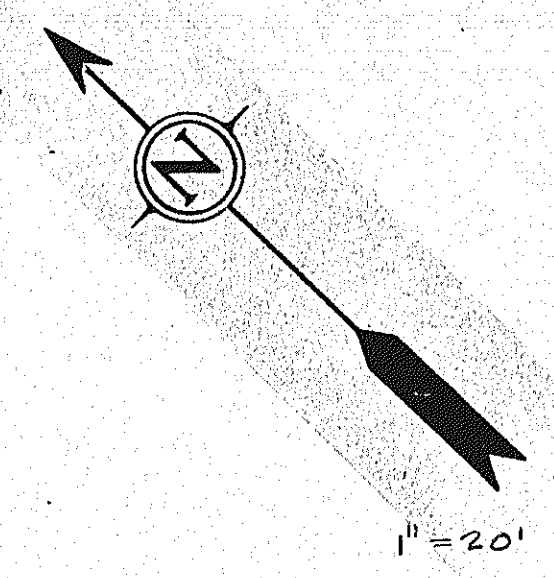
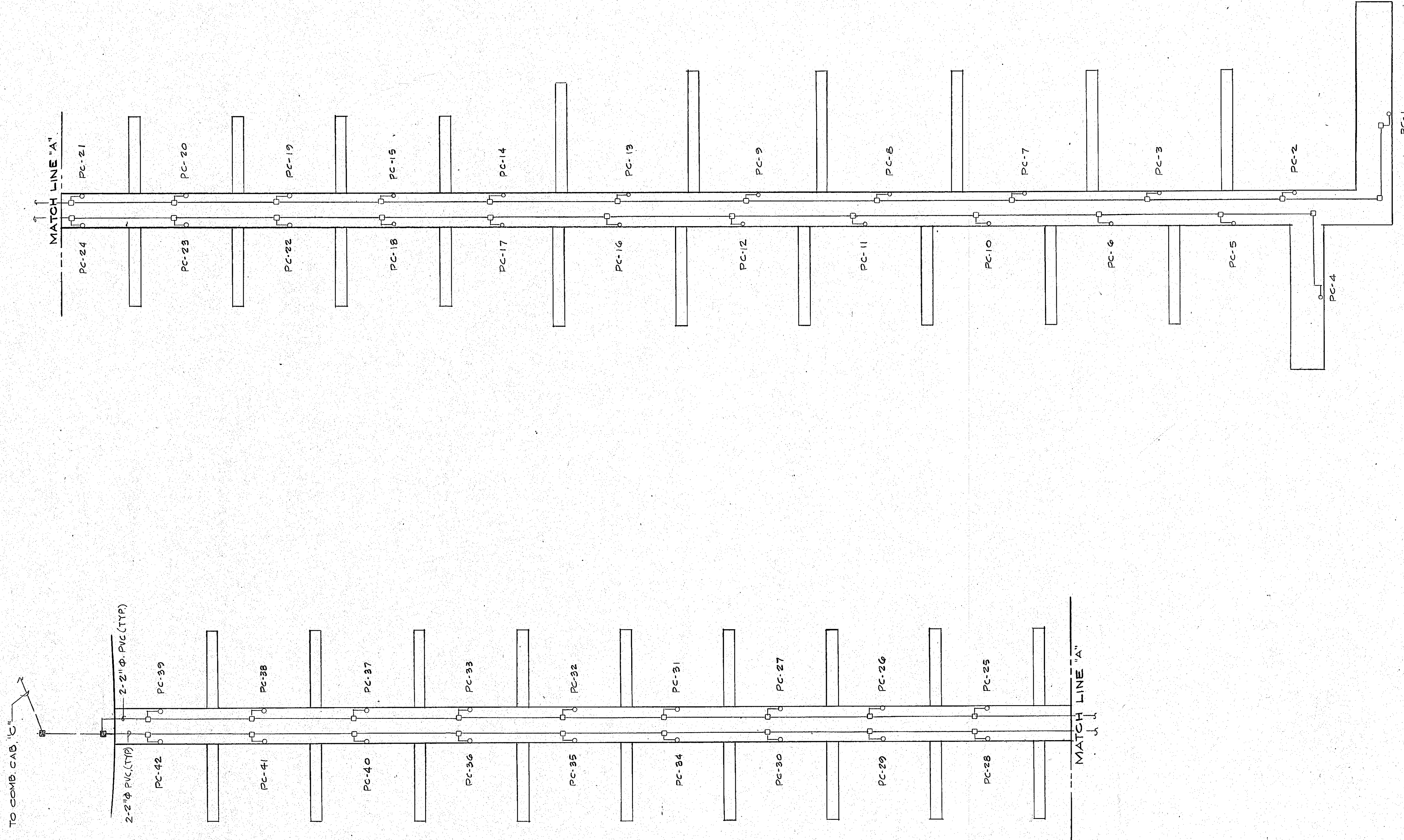
PIER "B"



REVISIONS

NO.	DATE

PIER "C"



JOB No. B 3202
FILE ARCH. 3-28

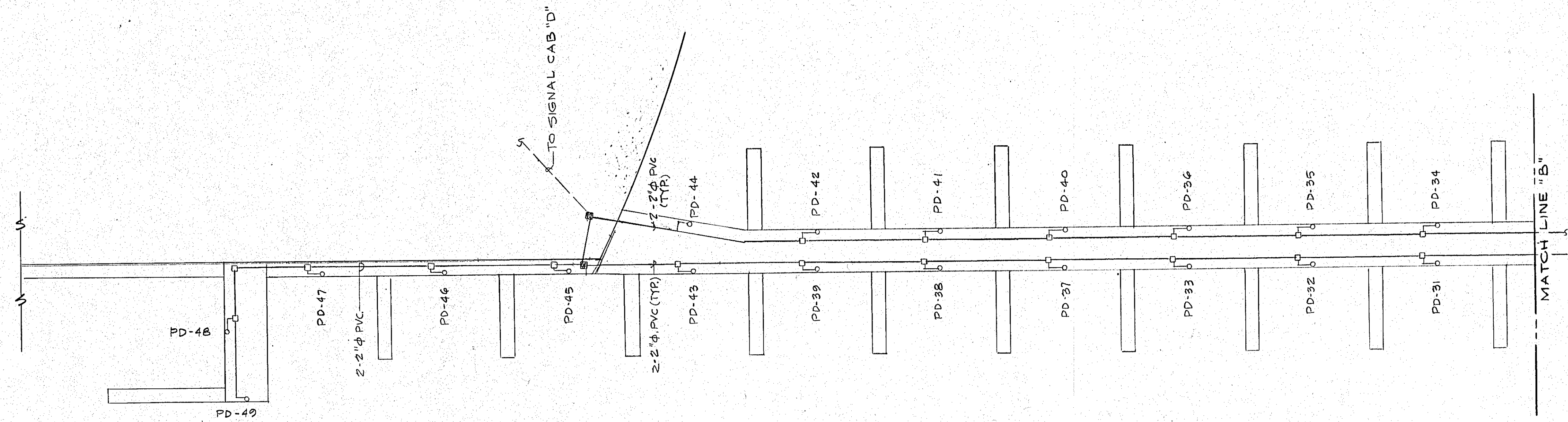
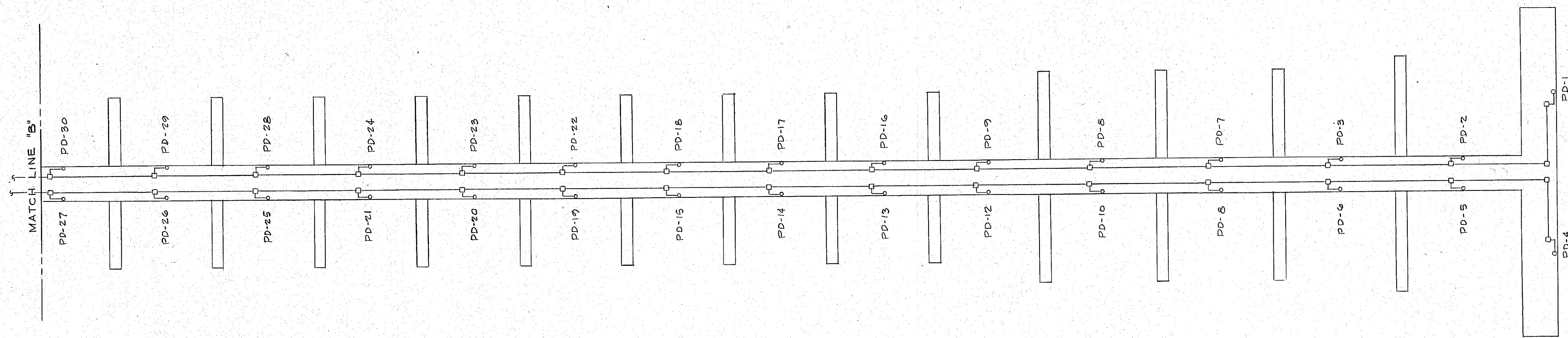
DES. SHEET
DWN. SHEET
CHK'D. SHEET
APTD. SHEET
E19 OF

CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

NO.	DATE	REVISIONS

SERV. TEL. & CA. TV.

Greenleaf-Telesca
PLANNERS - ENGINEERS - ARCHITECTS
2650 SW 70th AVENUE
MIAMI, FLORIDA 33135



PIER "D"

JOB No. B 3202
FILE ARCH. 3-28

DES. SHEET
DWG. SHEET
CHK'D. SHEET
APTD. SHEET

E-20 OF

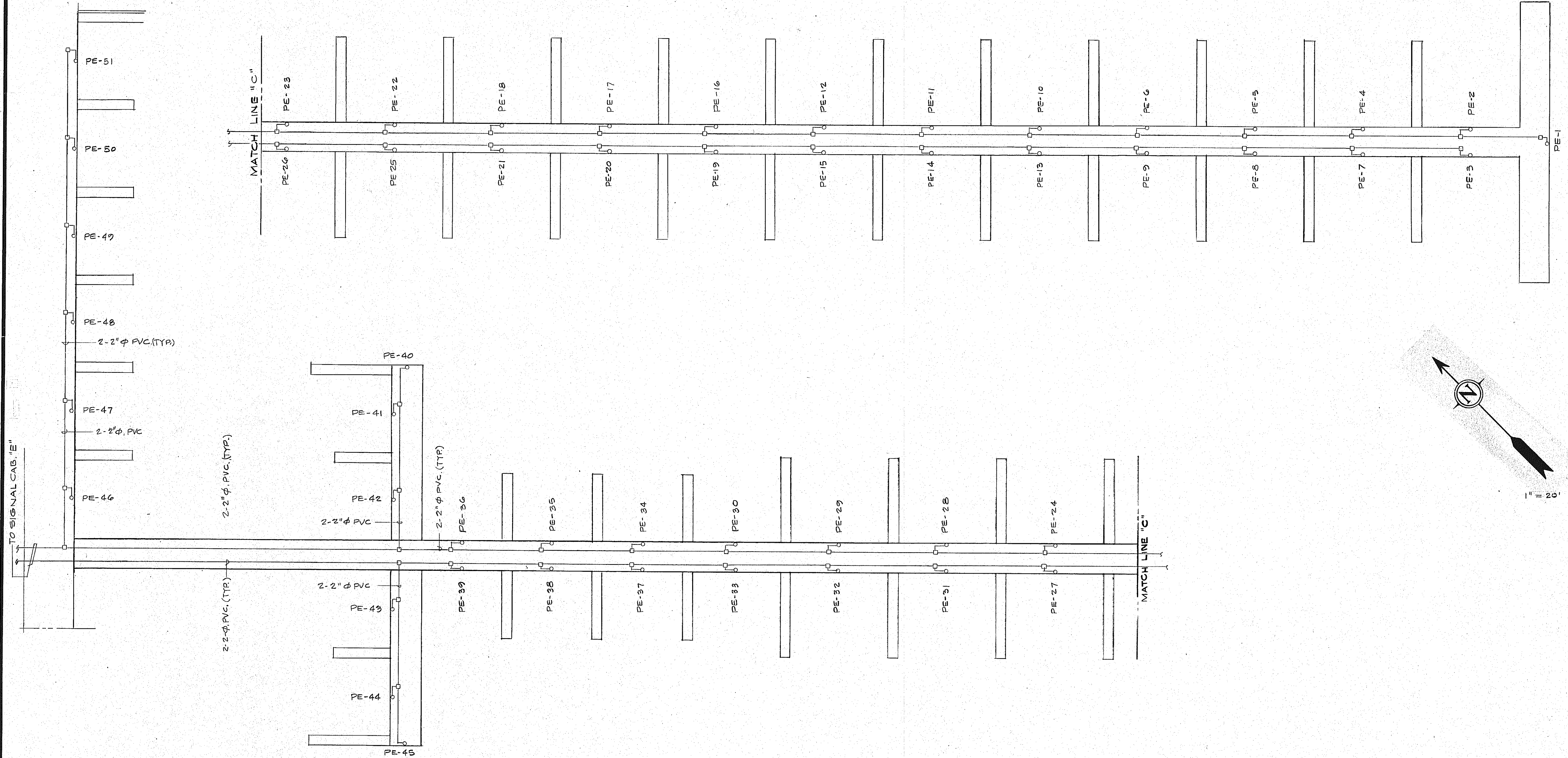
CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

REVISIONS

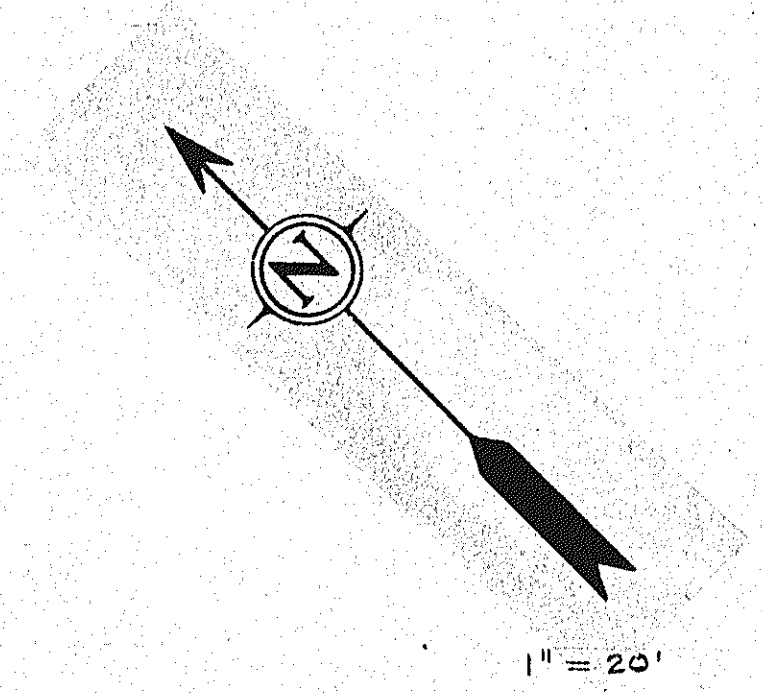
NO.	DATE	DESCRIPTION

SERV. TEL. & CA. TV.

Greenleaf-Telesca
PLANNERS - ENGINEERS - ARCHITECTS
2850 SW 27th AVENUE
MIAMI, FLORIDA 33133



PIER "E"



TO SIGNAL CAB. "E"

MATCH LINE "C"

MATCH LINE "C"

JOB No. B 3202
FILE ARCH. 3-28

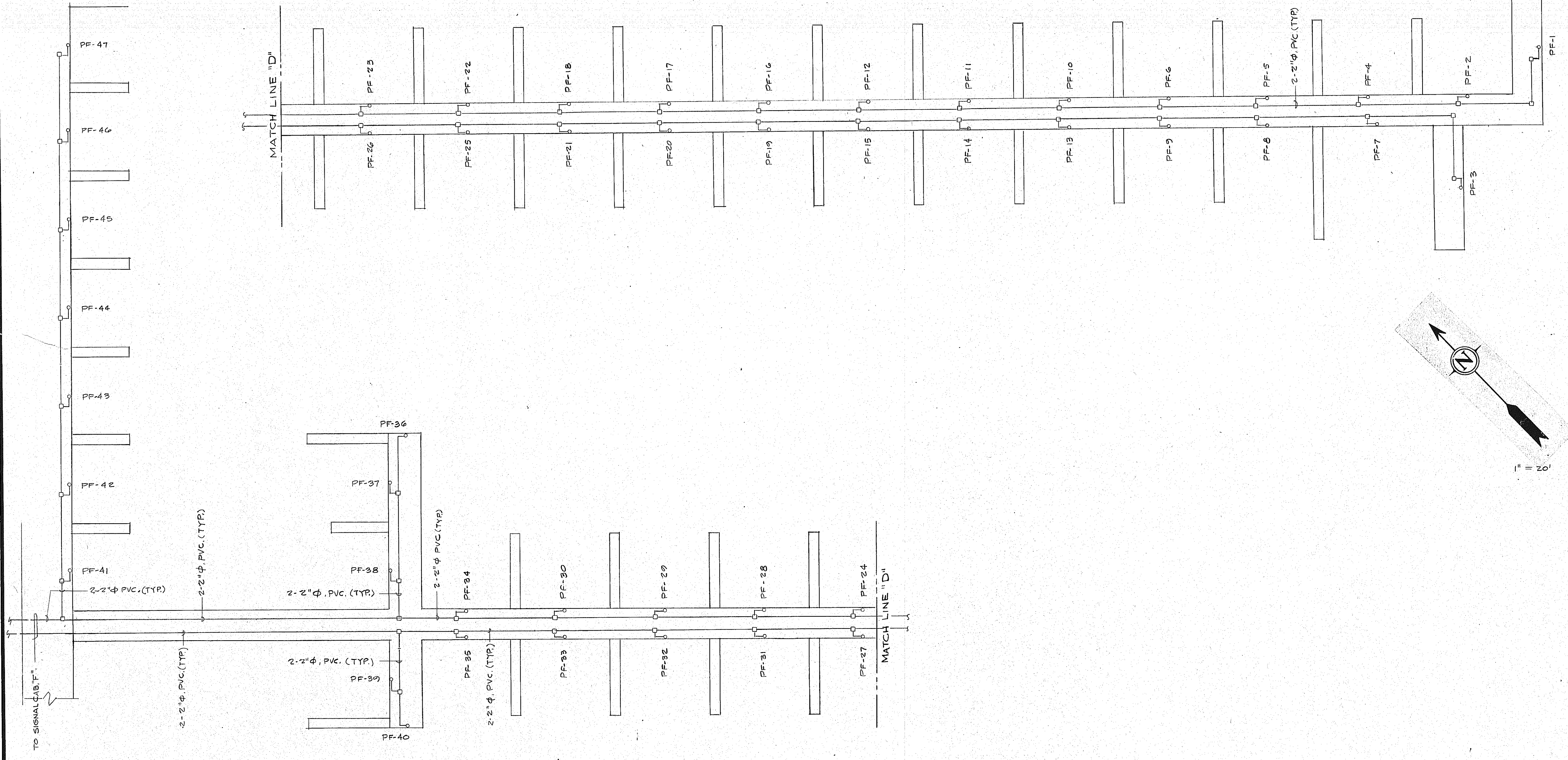
SERV. TEL. & CA. TV.

NO.	DATE	REVISIONS

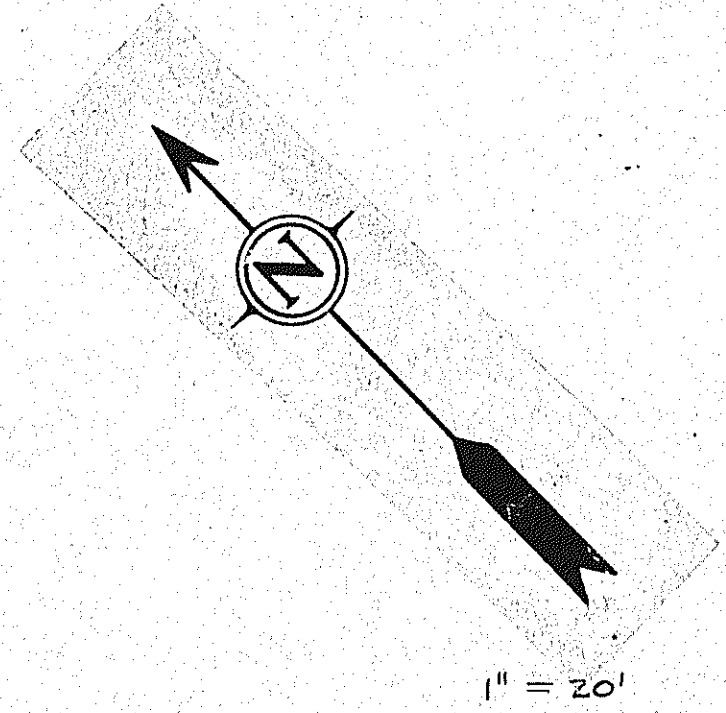
CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

DES. _____
CHK'D. _____
APP'D. _____
E-21 OF

9535



PIER "F"



JOB No. B 3202
FILE ARCH. 3-28

DES. DWG. SET FILE
 CHK'D. APP'D.
 E-22 OF

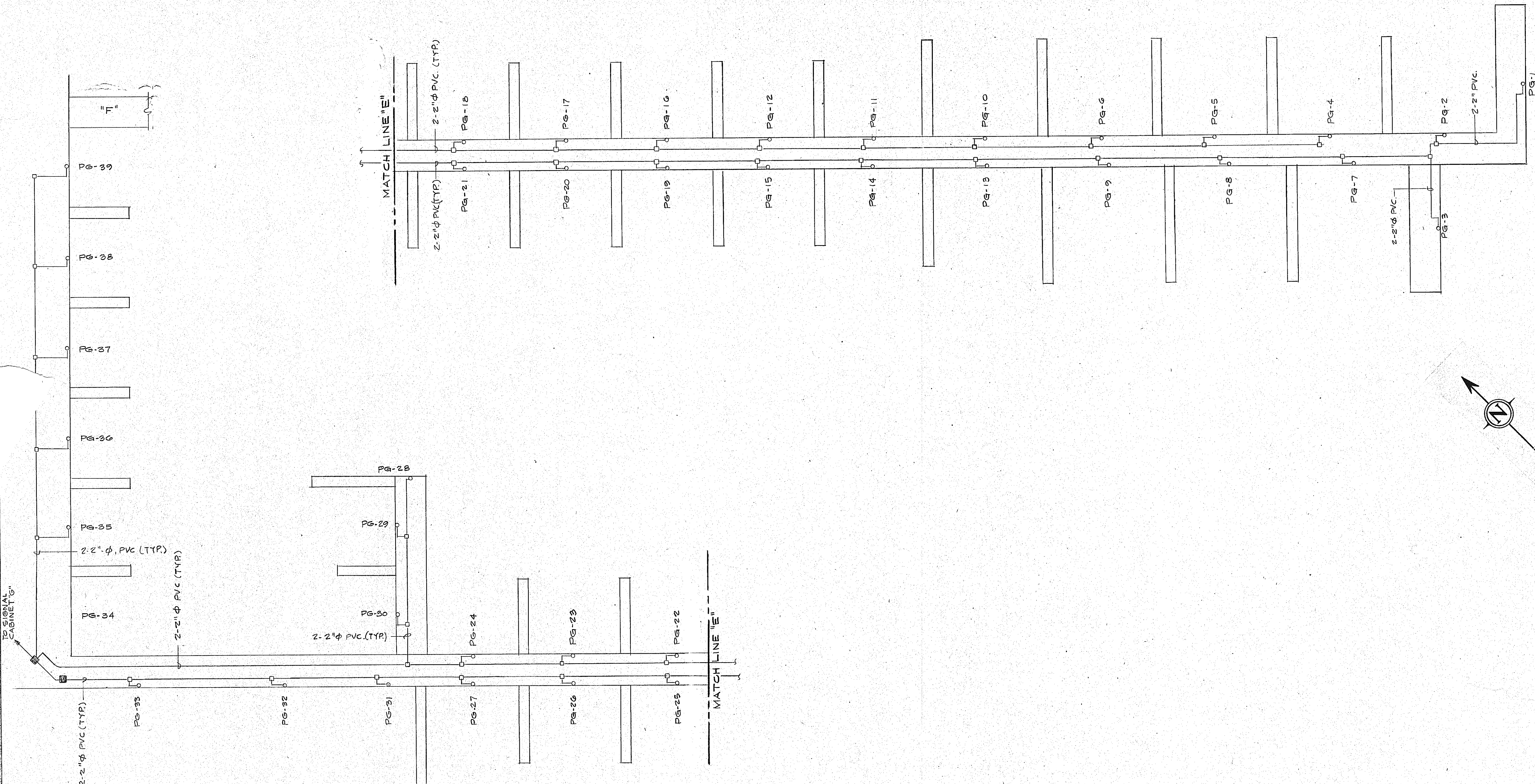
CITY OF MIAMI
DINNER KEY MARINA
 REDEVELOPMENT

REVISIONS

NO.	DATE	DESCRIPTION

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 MIAMI, FLORIDA 33133



PIER "G"

JOB No. B 3202
FILE ARCH. 3-28

DES. L. N. SHEET DATE FILE
CHK'D APP'D
E-23 OF

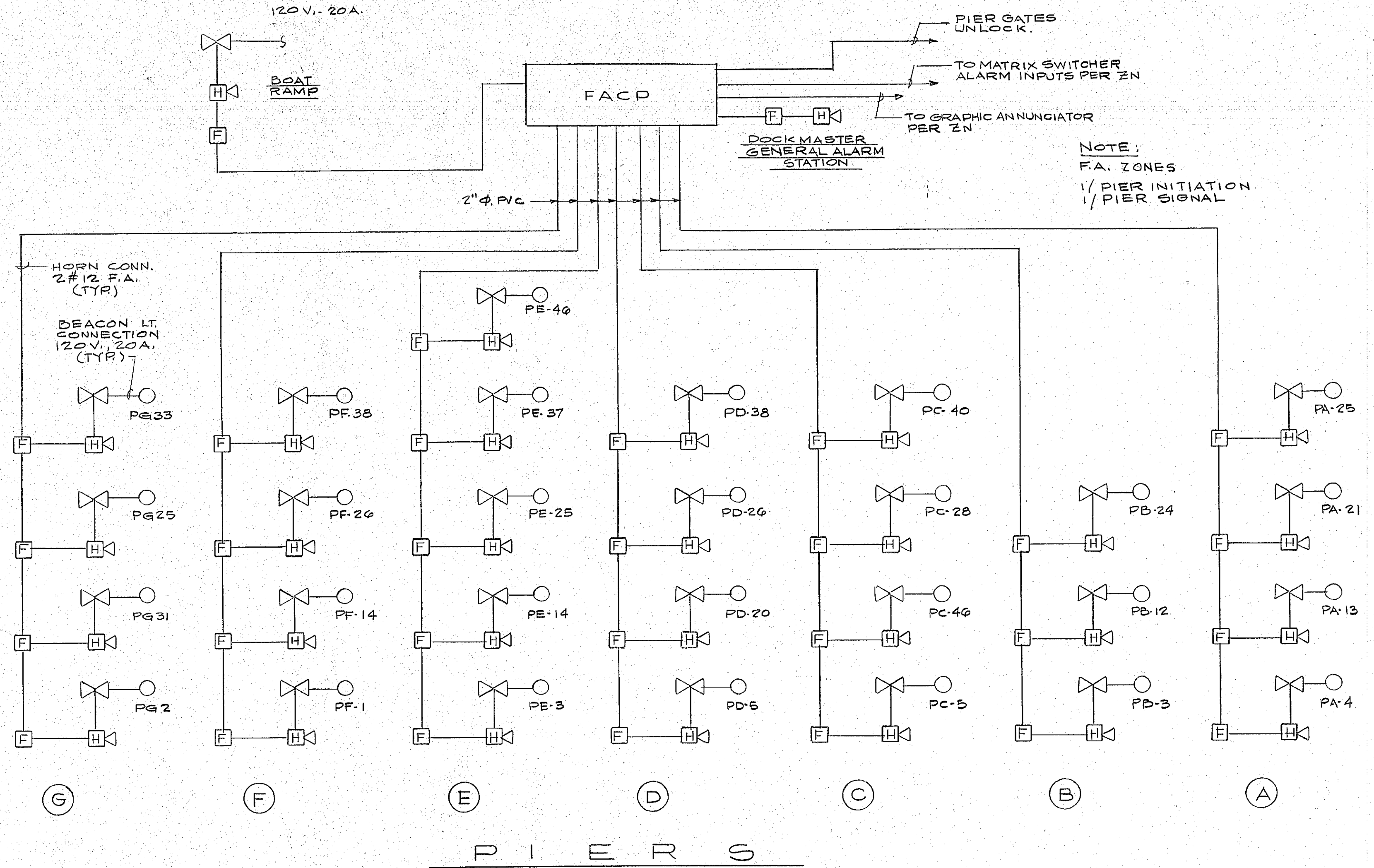
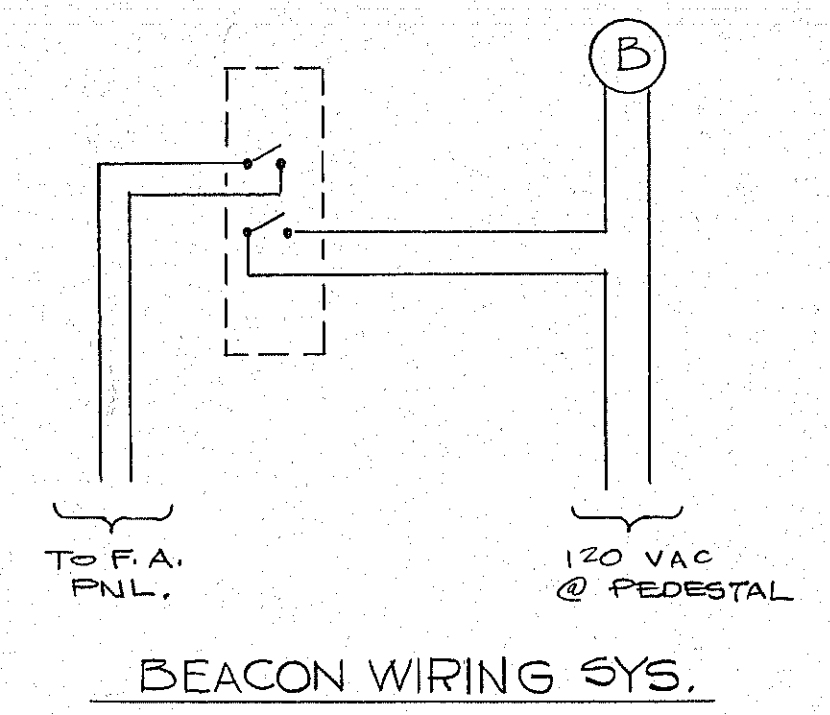
CITY OF MIAMI
DINNER KEY MARINA
REDEVELOPMENT

NO.	DATE	REVISIONS

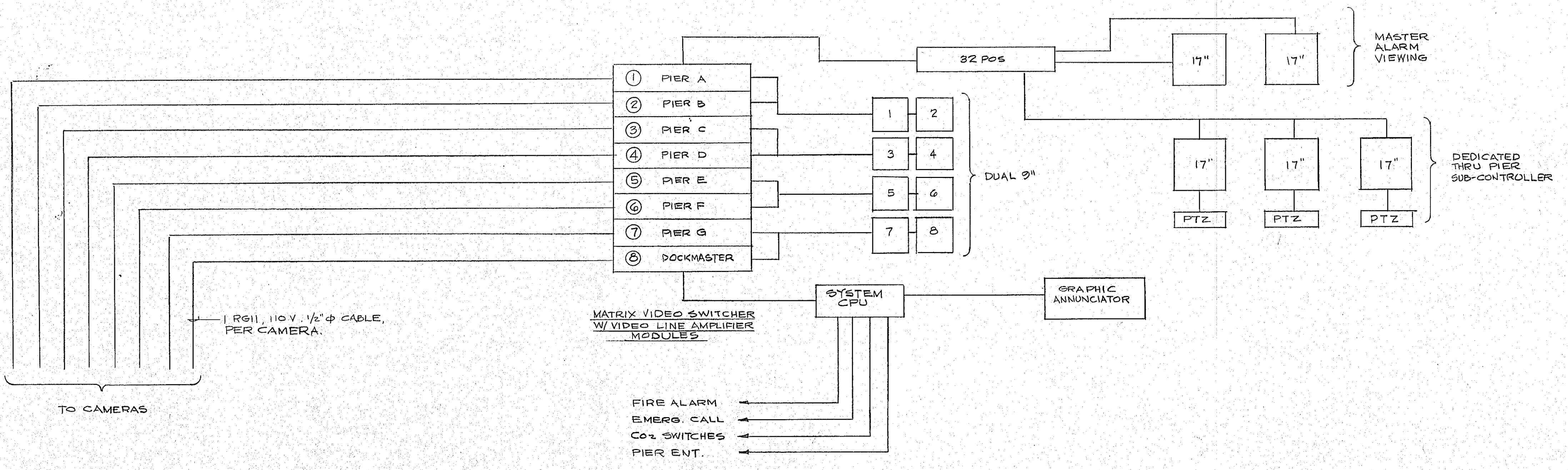
SERV. TEL. & CA. TV.

LEGEND

- ⊗ MULTILAMP, HIGH INTENSITY REVOLVING BEACON - 120 V. AC
- ☐ WEATHER PROOF PULL STATION & ENCLOSURE
- ⊞ WEATHERPROOF HORN W/DOUBLE PROJECTOR
- PEDESTAL (120V. SOURCE) & IDENTIFICATION NUMBER.



FIRE ALARM SYSTEM



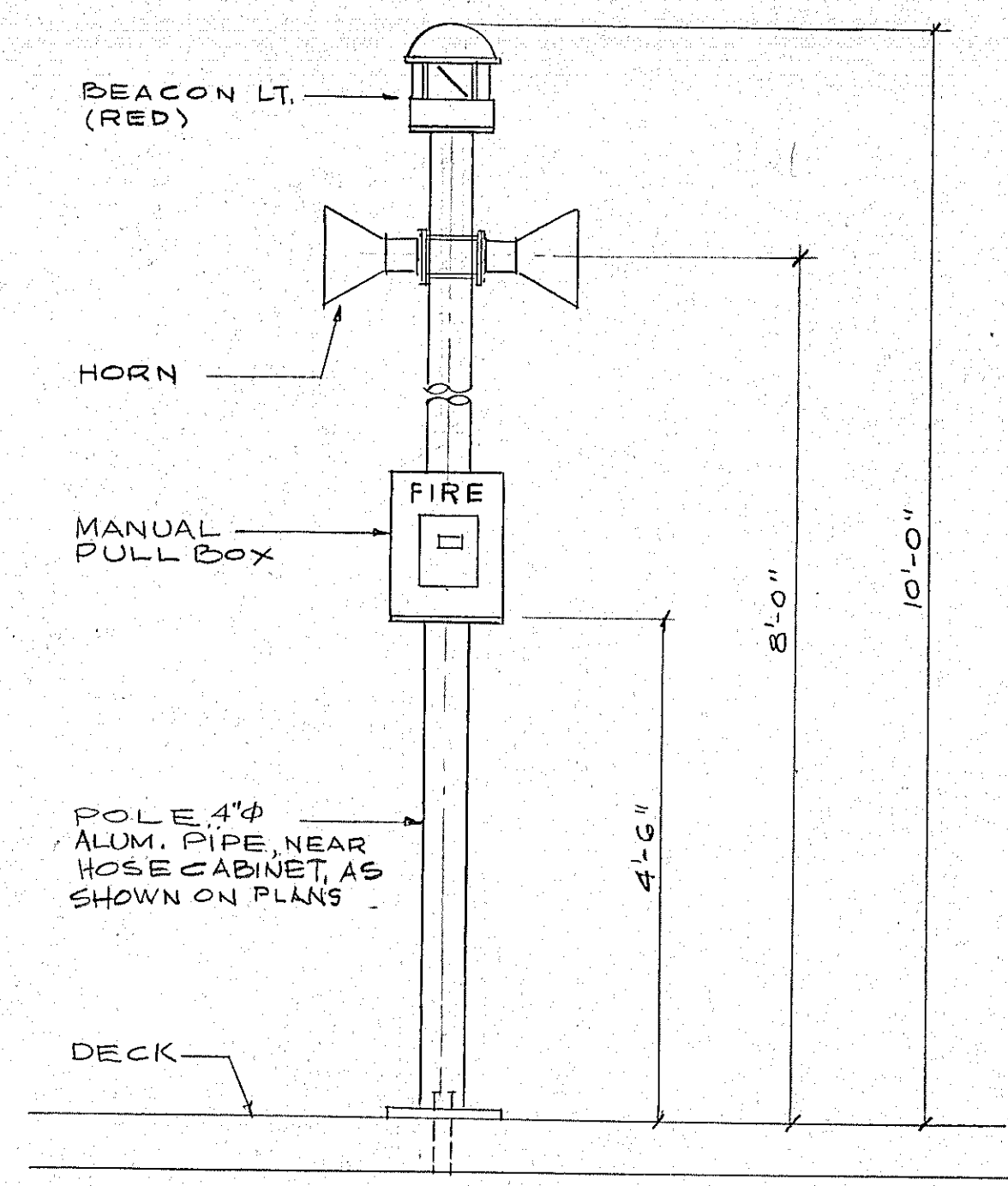
C. C. T. V. SECURITY SYSTEM

FIRE ALARM EQUIPMENT SCHEDULE

PIER	CONTROL UNIT	MANUAL PULL BOX	HORNS	BEACON LIGHTS	CO2 ALARM	REMARKS
A	1	4	4	4	3	NEAR HOSE CAB.,
B	1	3	3	3	3	" "
C	1	4	4	4	4	" "
D	1	4	4	4	4	" "
E	1	5	5	5	6	" "
F	1	4	4	4	5	" "
G	1	4	4	4	5	" "
H	1	1	1	1	1	(H) DOCKMASTER STA.
J	1	1	1	1	1	(J) BOAT RAMP
TOTAL	9	30	30	30	32	

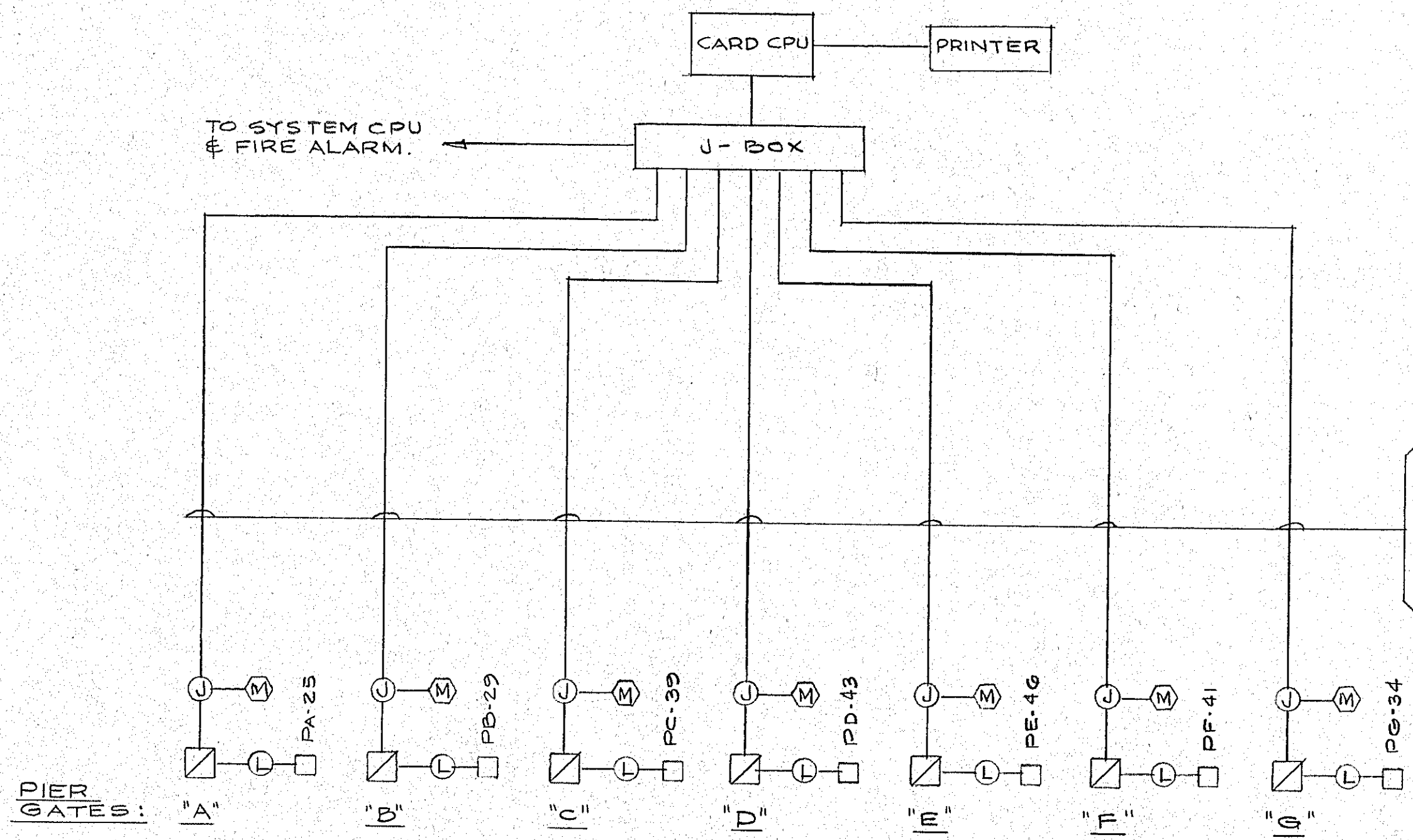
PAGING & SECURITY EQUIPMENT SCHEDULE

PIER	CONTROL UNIT	C.C.T.V. CAMERA	SPEAKERS	TELEPHONE	POLES	REMARKS
A	2	2	8	4	5	SEE PLANS FOR LOCATION. 1 CONTROL UNIT FOR C.C.T.V. & PAGING
B	2	2	8	4	4	1 CONTROL UNIT FOR TEL. & PAGING
C	2	5 (2 w/PT2)	12	6	8	" "
D	2	3	11	6	6	" "
E	2	5	14	8	8	" "
F	2	4	6	10	5	" "
G	2	3	6	5	5	" "
TOTAL	14	24	65	43	41	



FIRE ALARM SYS. MTG. DETAIL

N.T.S.

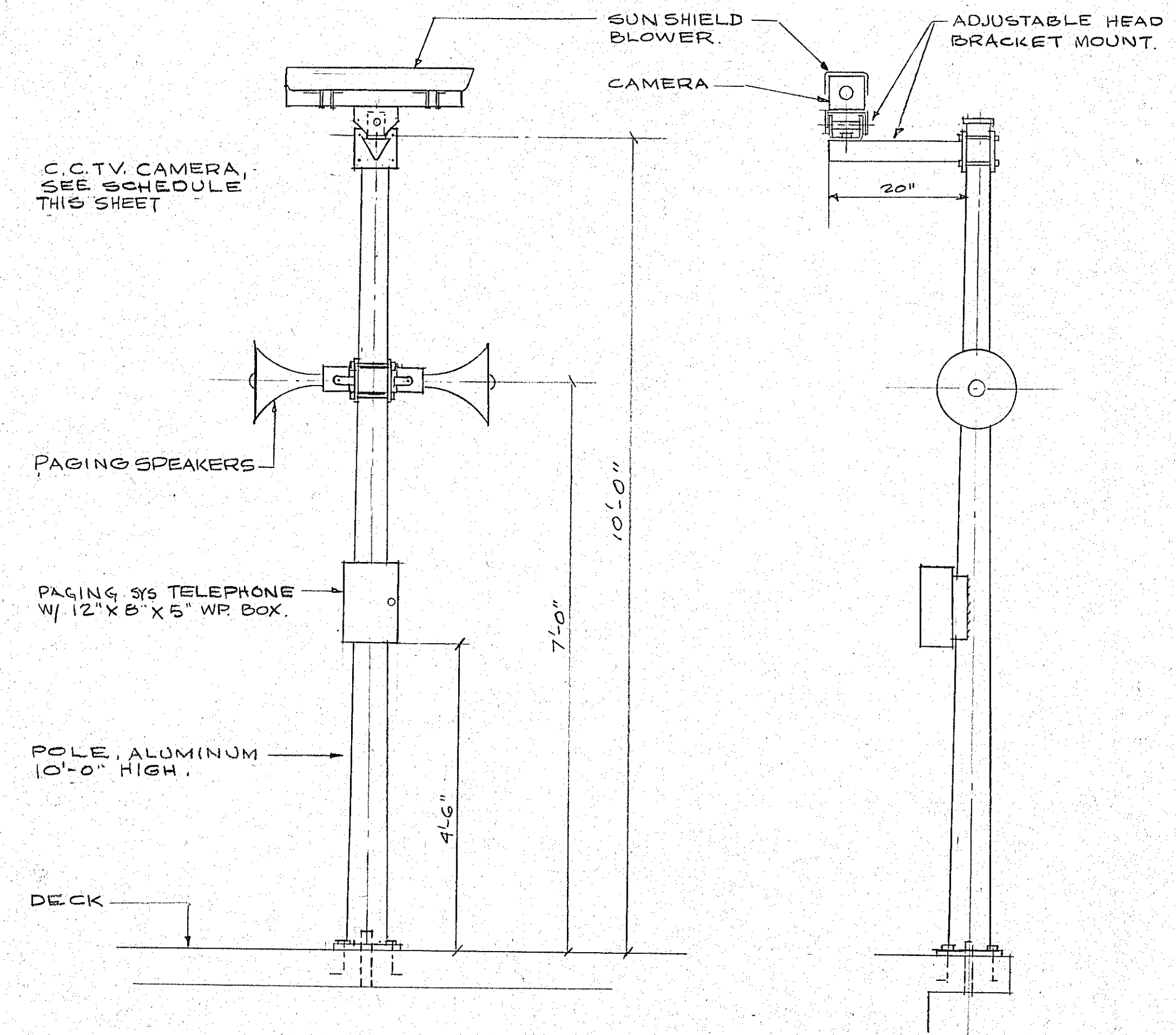


LEGEND:

- ☐ CARD READERS
- Ⓜ PIER ENTRANCE MOTION DETECTOR
- Ⓝ JUNCTION BOX
- Ⓛ GATE LOCK (BY GATE SUPPLIER)
- Ⓚ LOCK POWER SUPPLY, 110 VAC AT DESIGNATED PEDESTAL.

- 4 READER LOOP #18
- 2 DET. PWR. #14
- 4 DET. OUTPUT #16
- 2 F.A. LOCK REL. #12

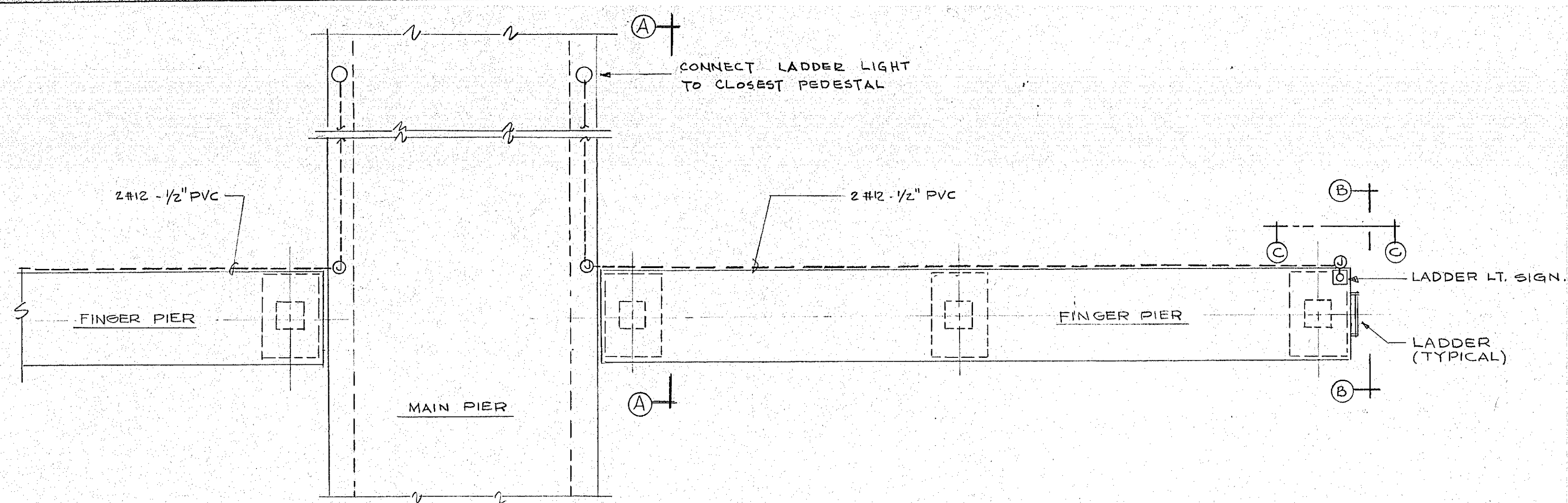
CARD ACCESS AT PIER GATES



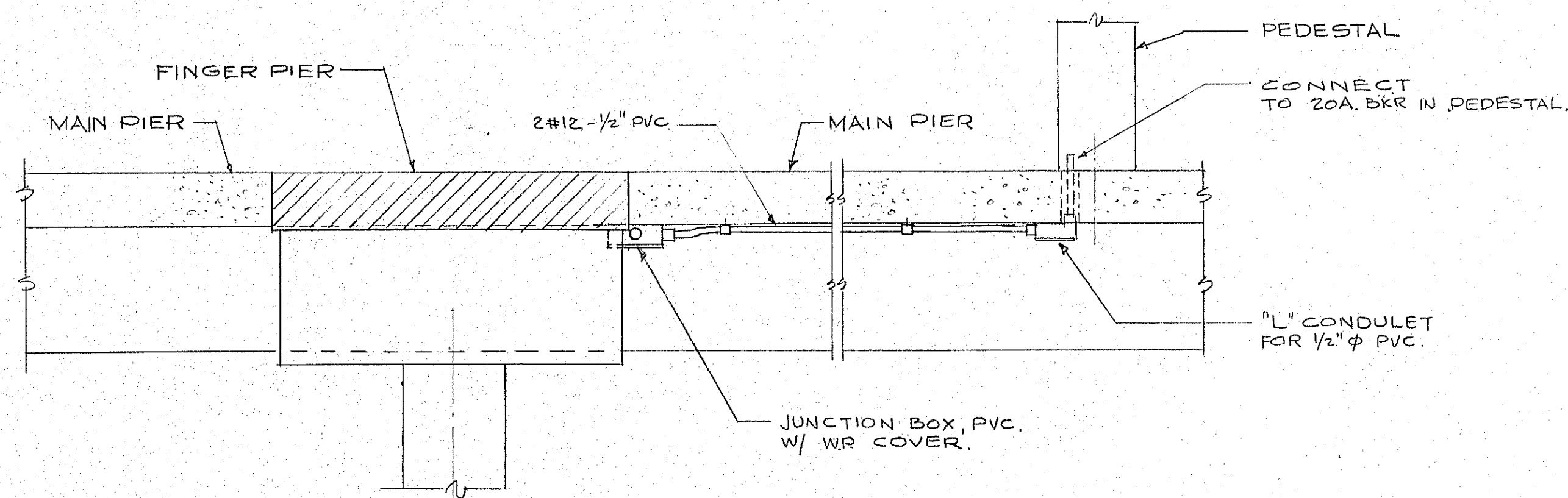
PAGING & SECURITY SYS. MTG. DETAIL

N.T.S.

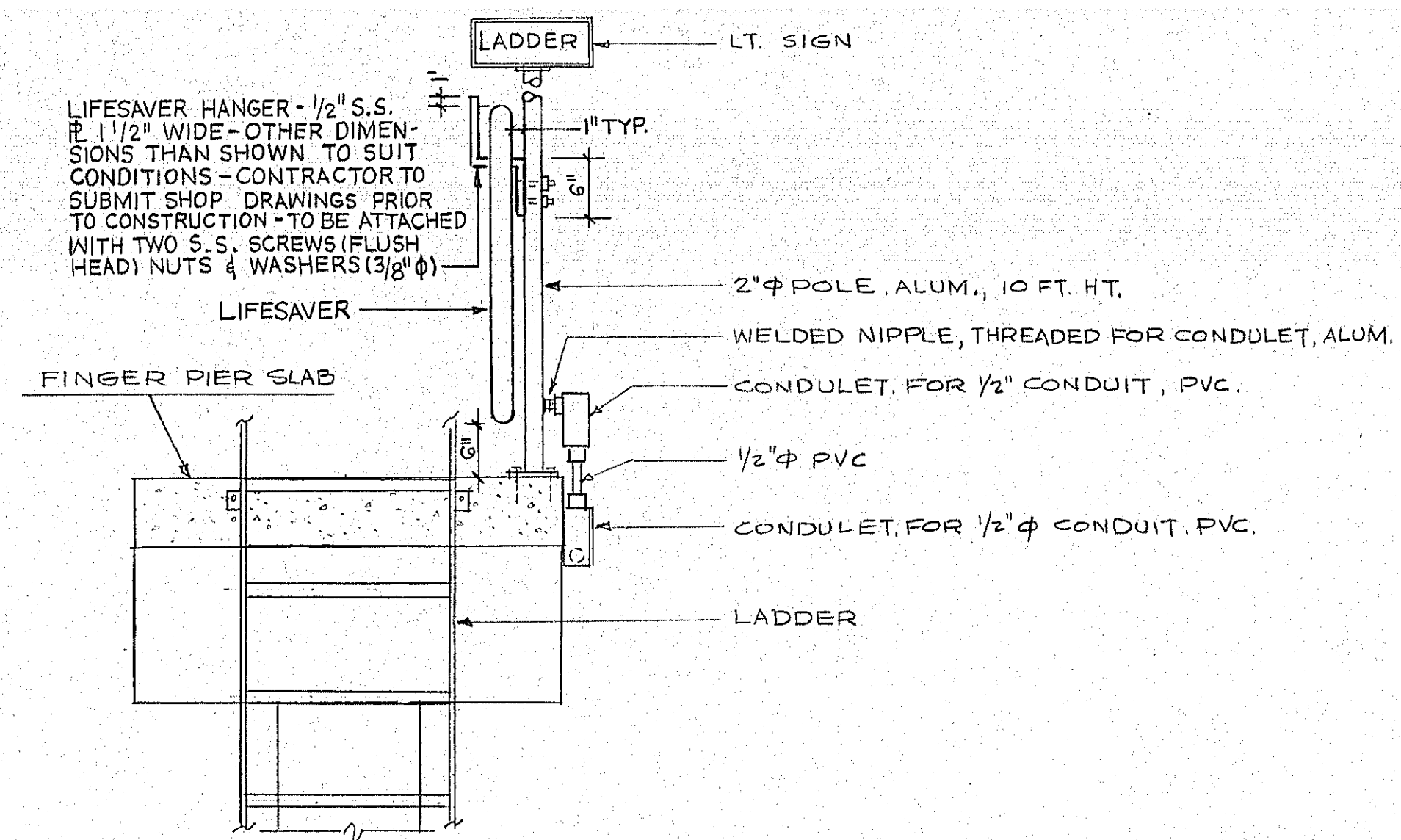
NO.	DATE	REVISIONS



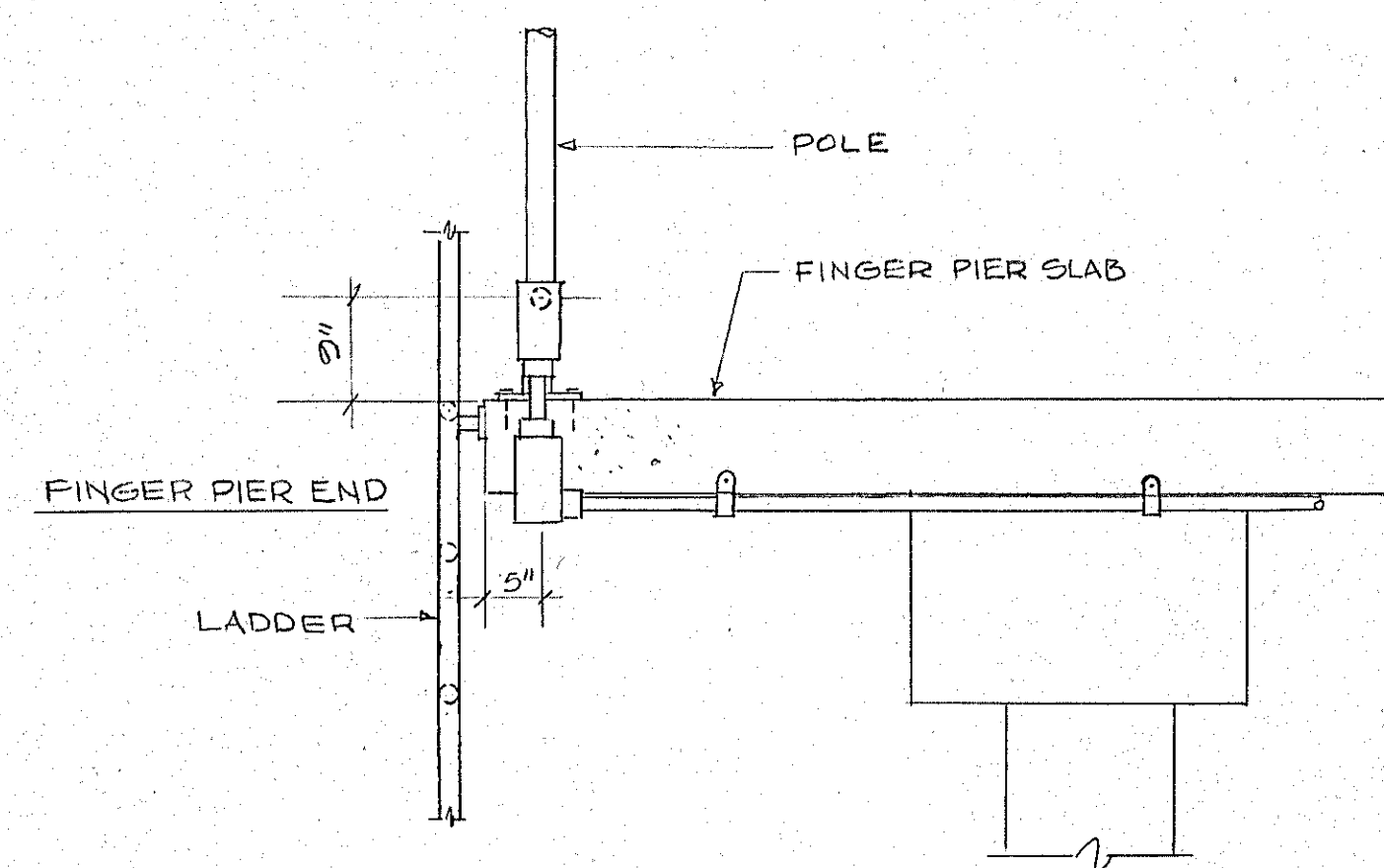
FINGER PIER-TYPICAL SIGN WIRING
SCALE: 1/4" = 1'-0"



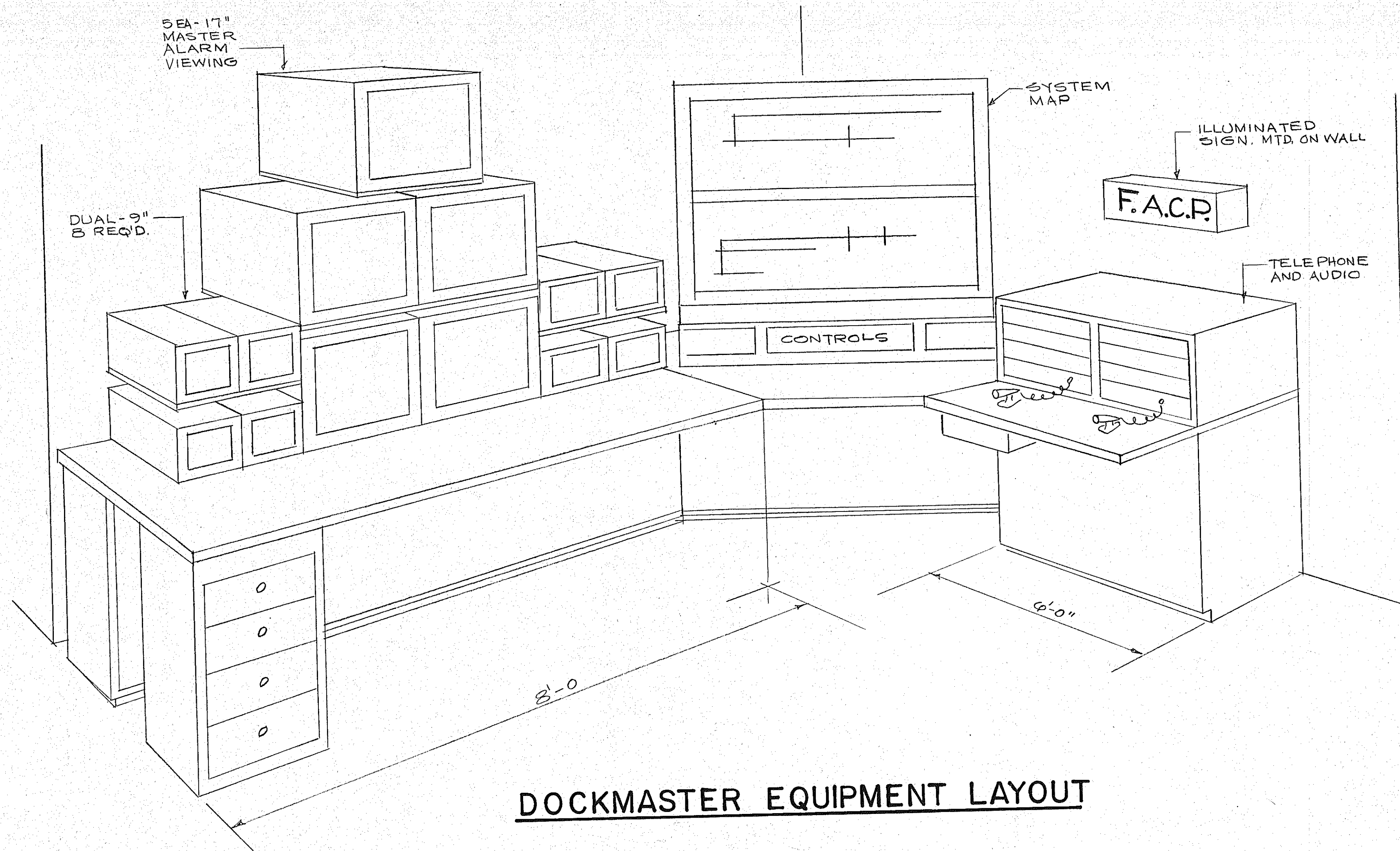
SECTION "A-A"
SCALE: 3/4" = 1'-0"



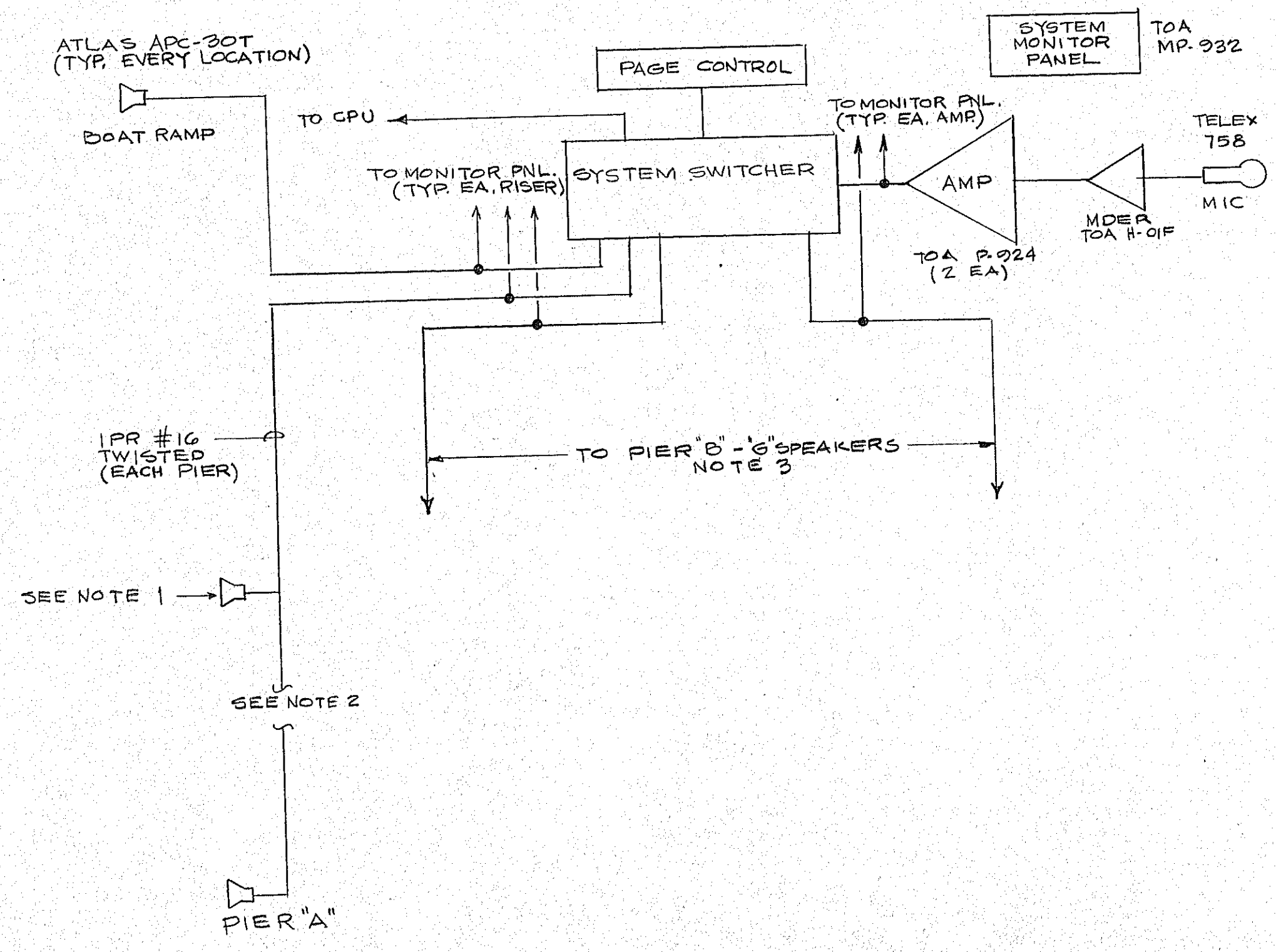
SECTION "B-B"
SCALE: 3/4" = 1'-0"



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



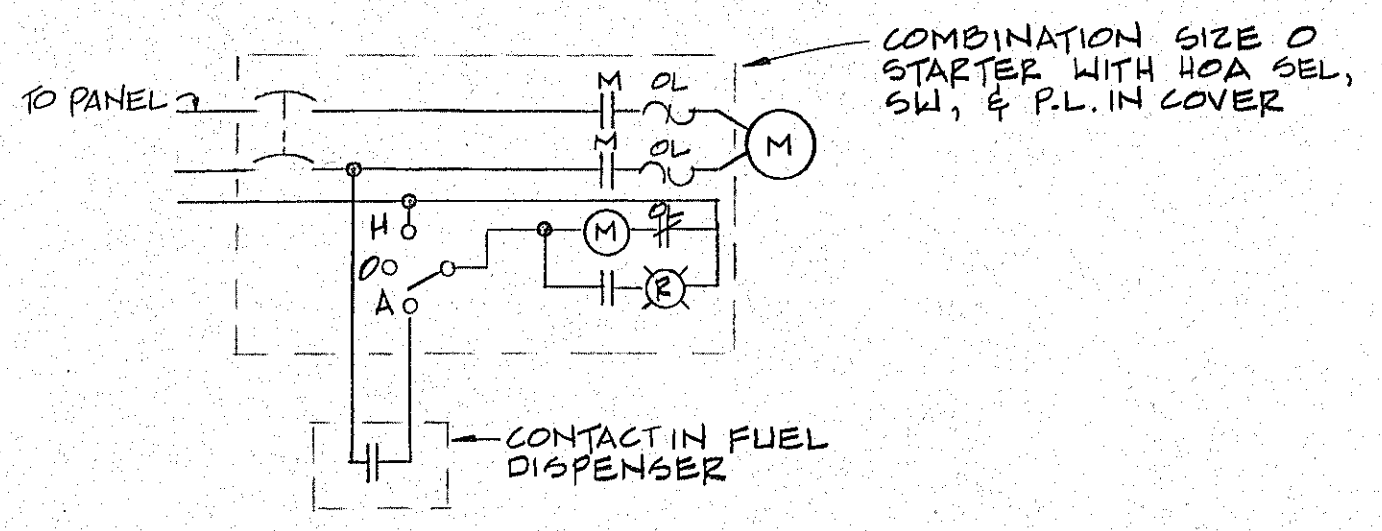
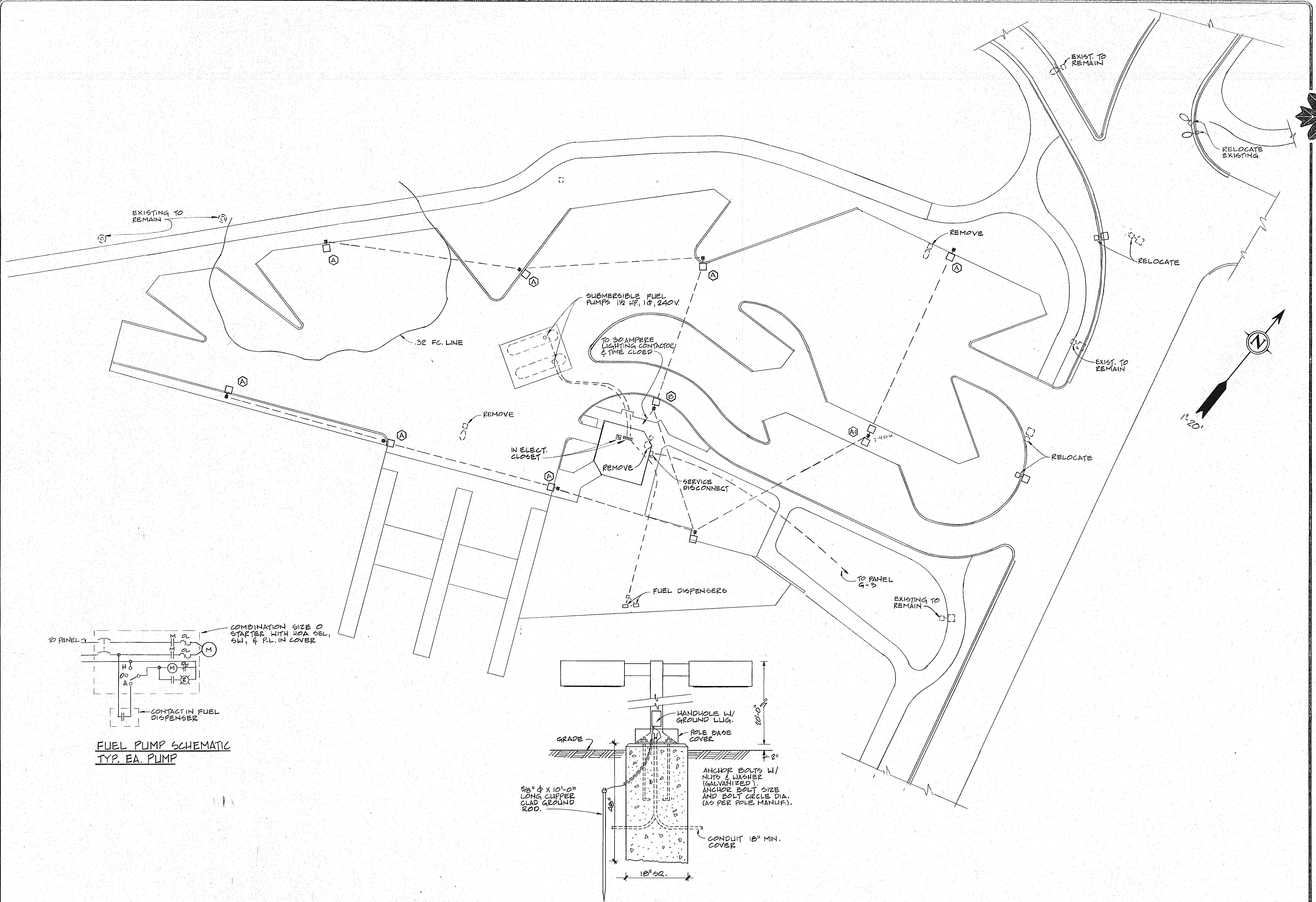
DOCKMASTER EQUIPMENT LAYOUT



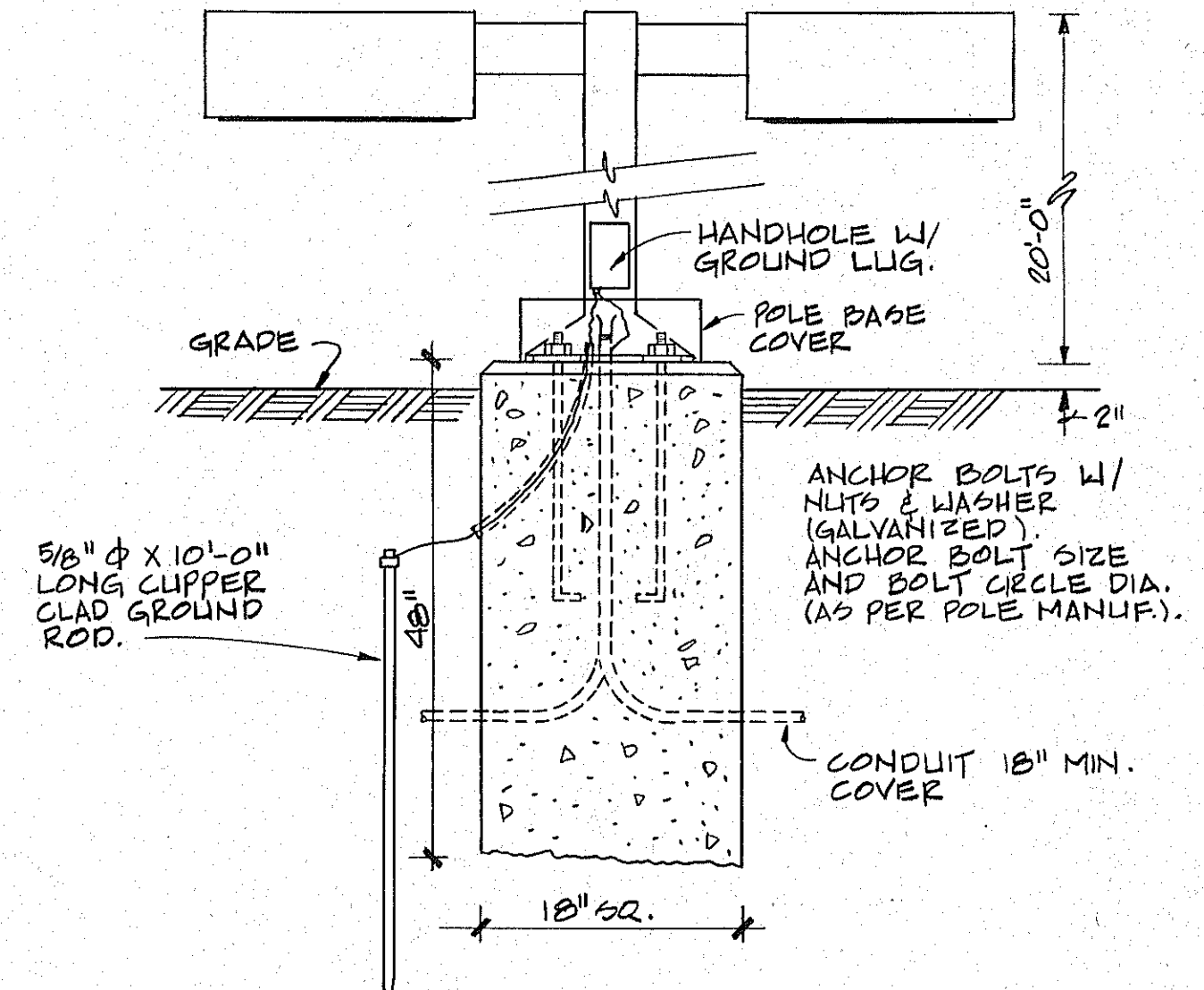
TYPICAL PIER PAGING SYSTEM

NOTES:

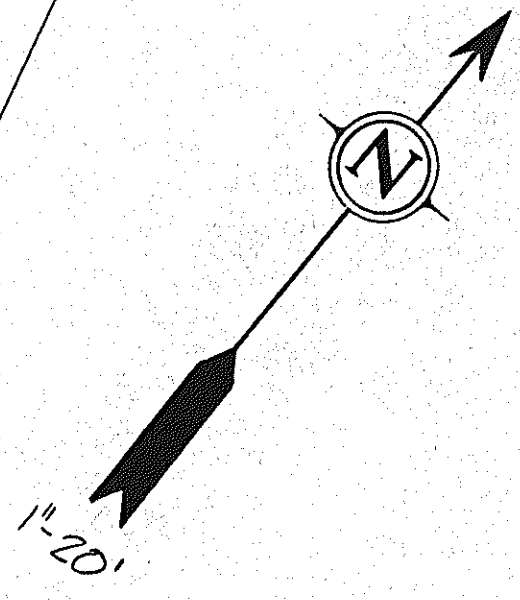
1. SPEAKER SYMBOL SHOWN IS FOR SINGLE SPKR. LOCATIONS. SYMBOL FOR DUAL SPKR. LOCATIONS AS DETERMINED FROM PIER LAYOUT DRAWINGS.
2. ADD PROPER NUMBER OF SPKRS. FOR EACH RISER.
3. ADD ADDITIONAL PIER RISERS SIMILAR TO PIER "A" W/ PROPER NUMBER OF SPKRS. AS DETERMINED FROM PIER LAYOUT DRAWINGS.



FUEL PUMP SCHEMATIC
 TYP. EA. PUMP



DETAIL - POLE DETAIL
 (N.T.S.)

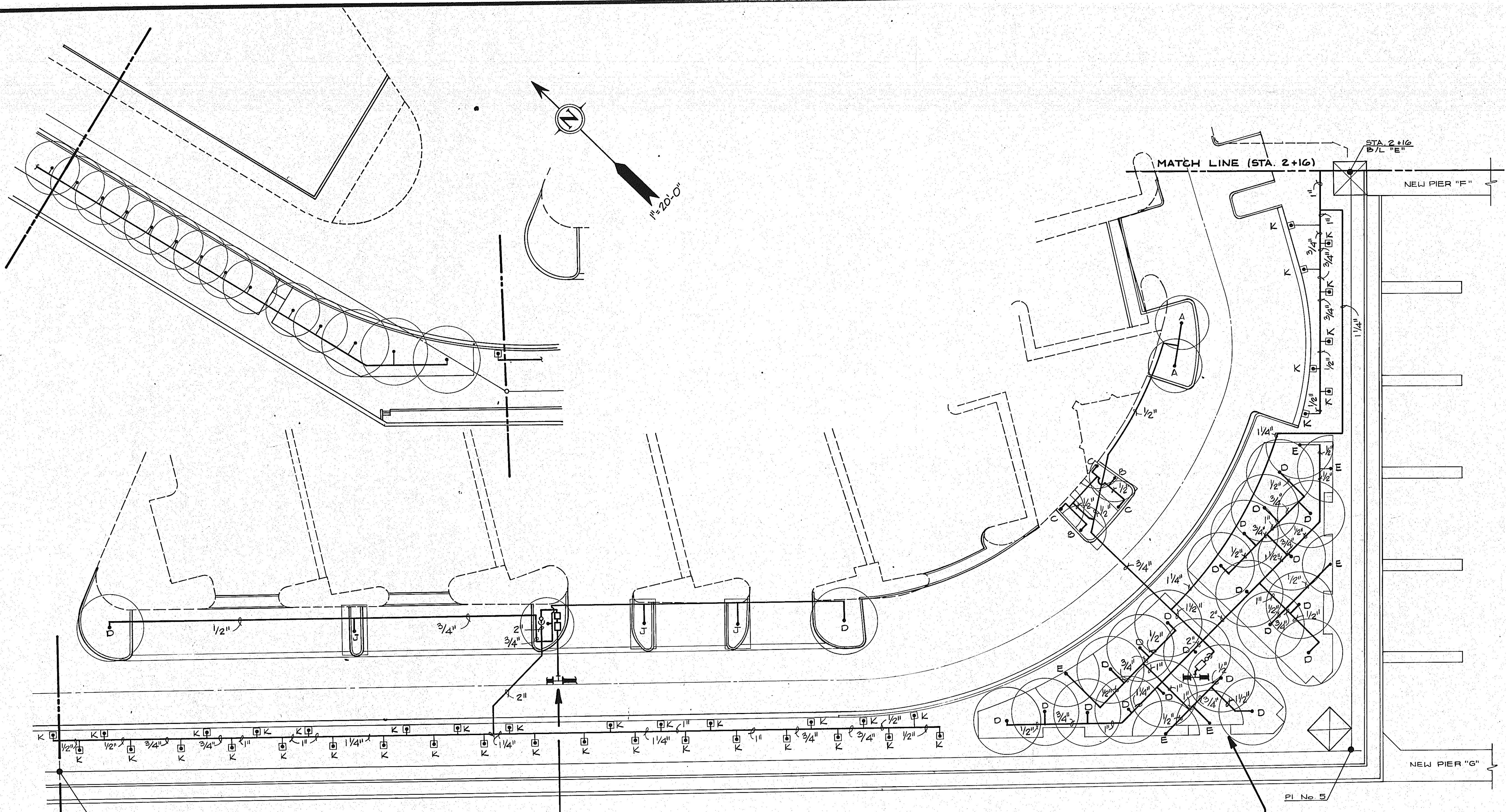


REVISIONS

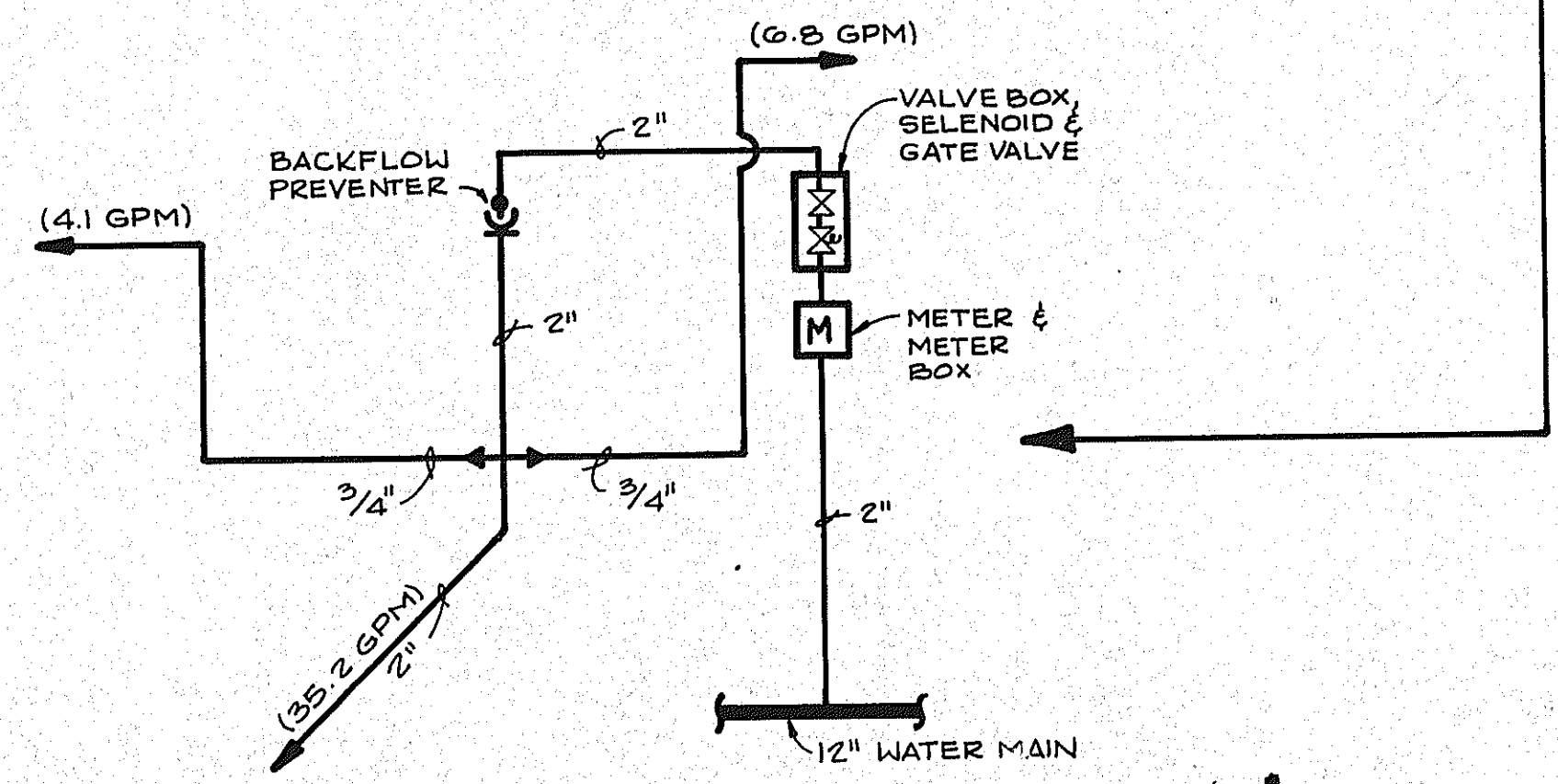
NO.	DATE	DESCRIPTION

CITY OF MIAMI
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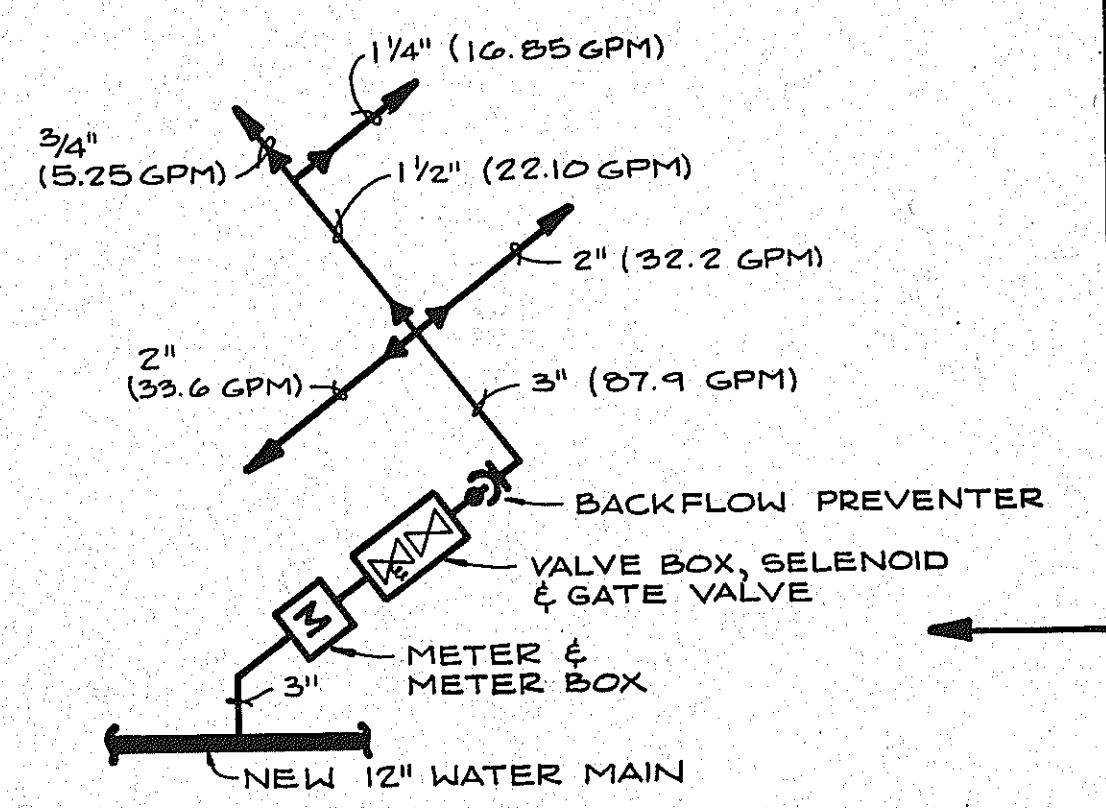
DES.	CHK'D.	APP'D.	DATE:	FILE:
SHEET				



BISCAYNE BAY

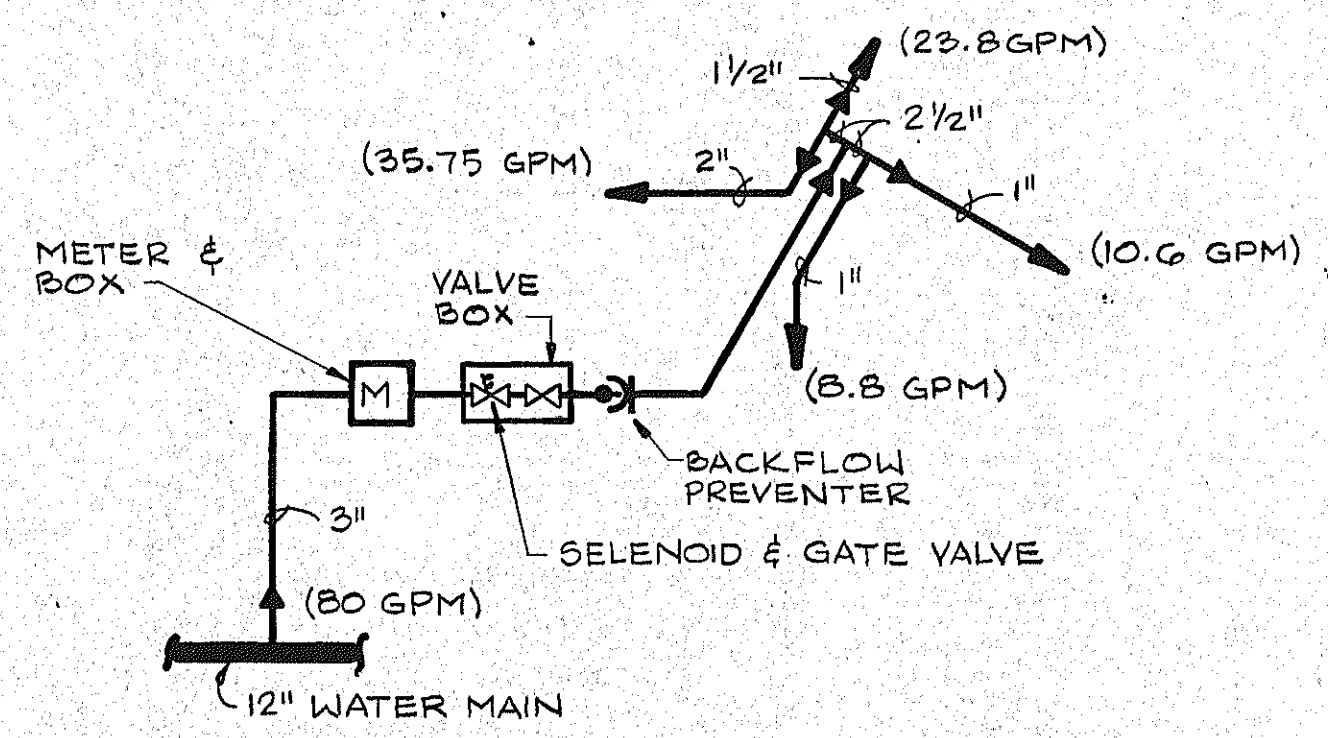
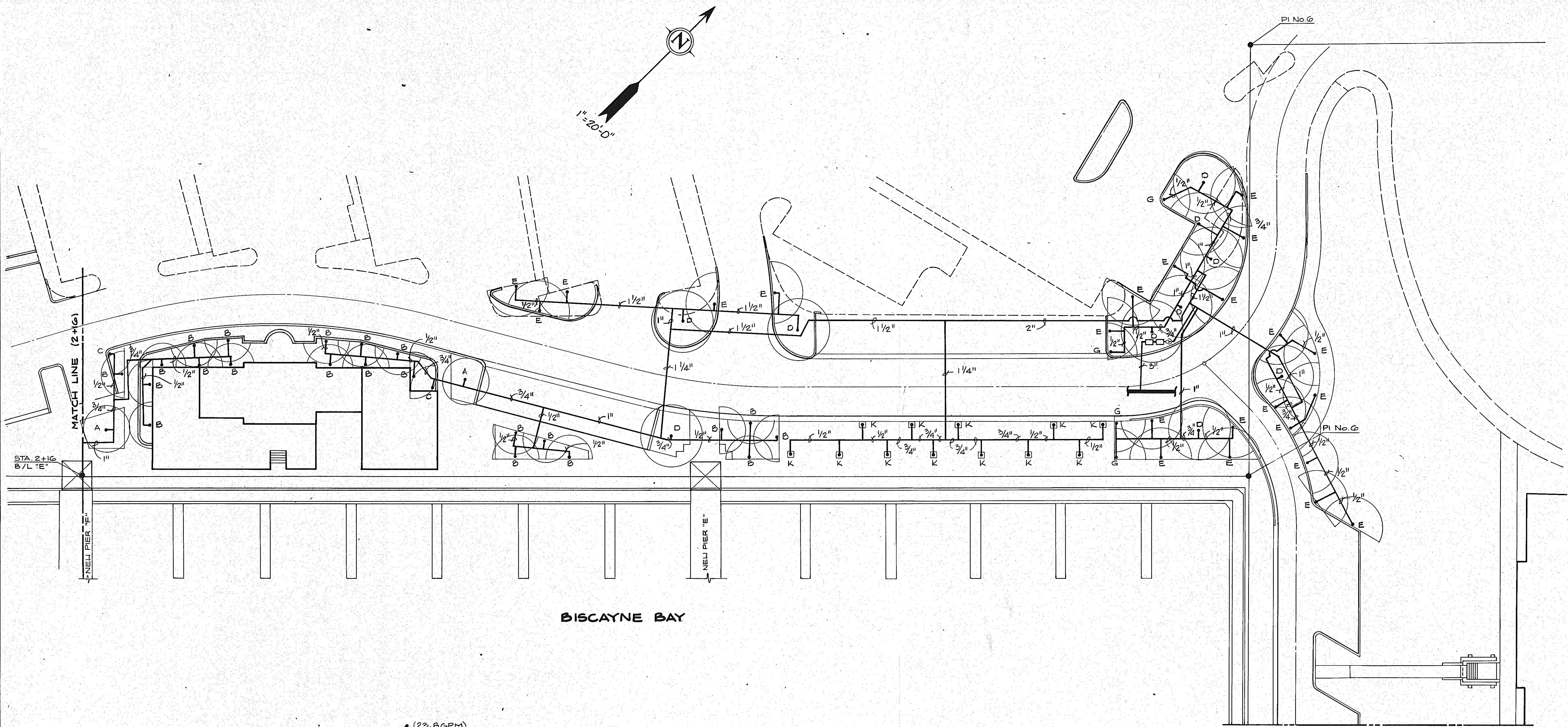


CONNECTION DETAIL
 (N.T.S.)



CONNECTION DETAIL
 (N.T.S.)

BISCAYNE BAY

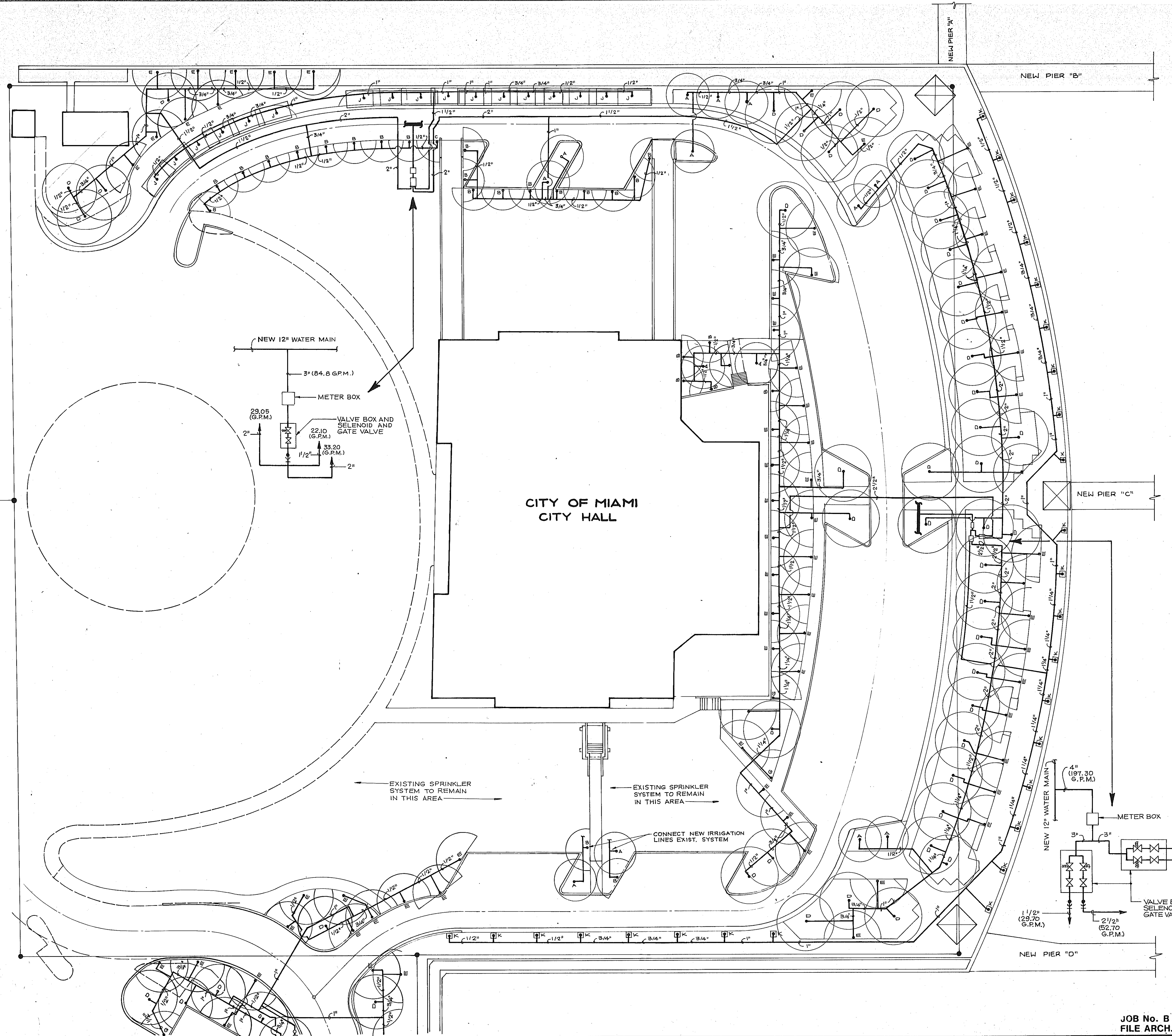
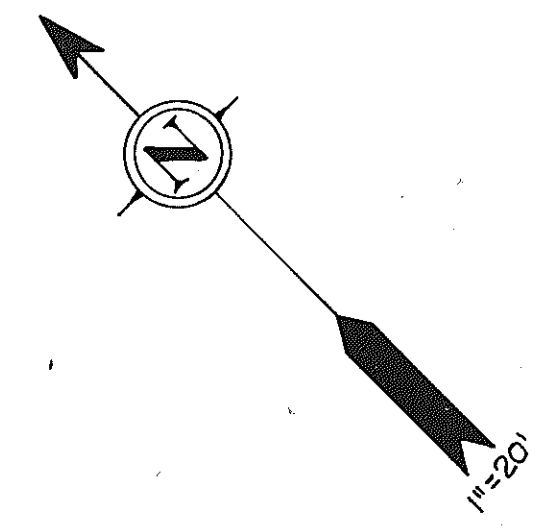


CONNECTION DETAIL
(N.T.S.)

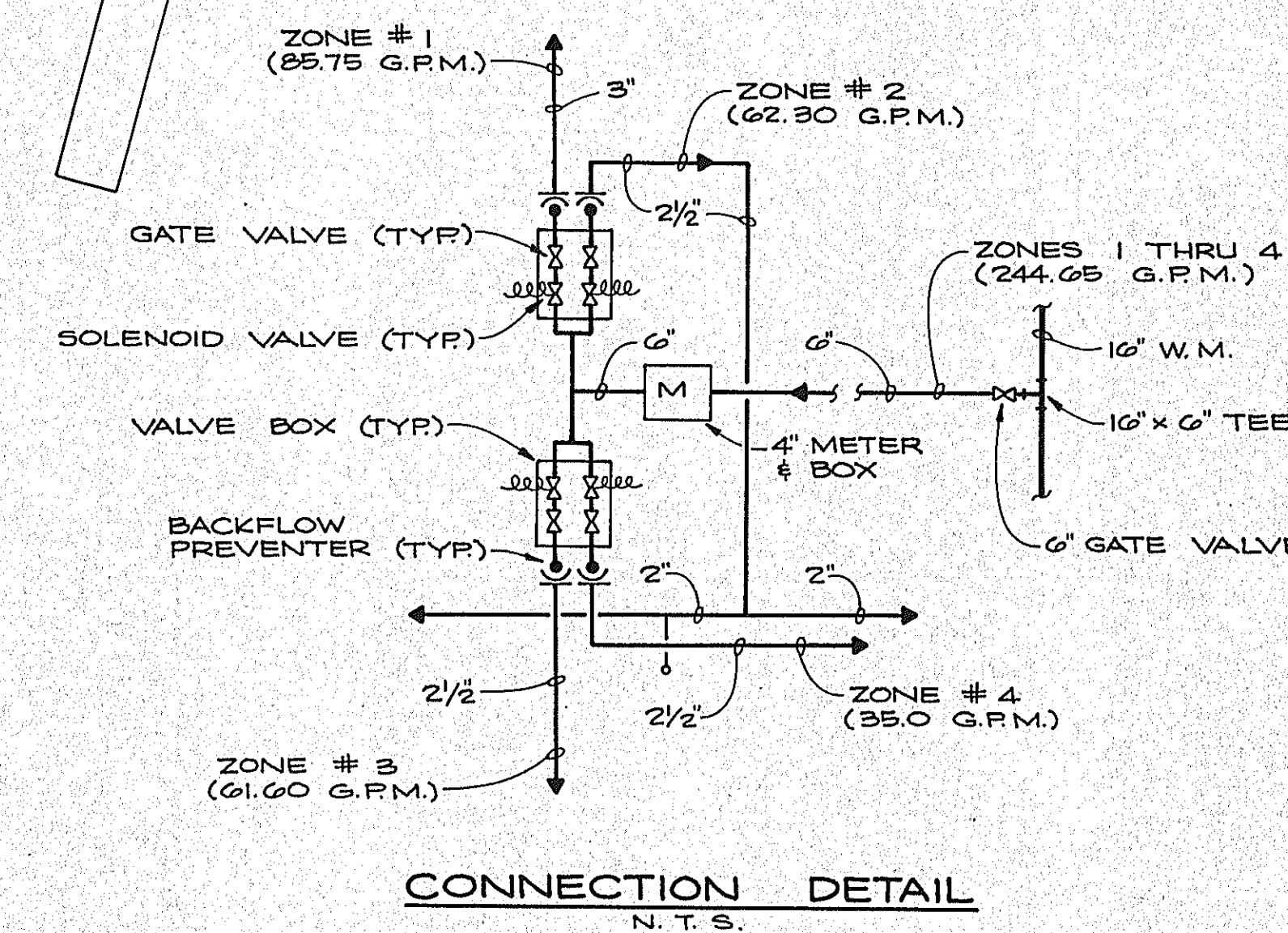
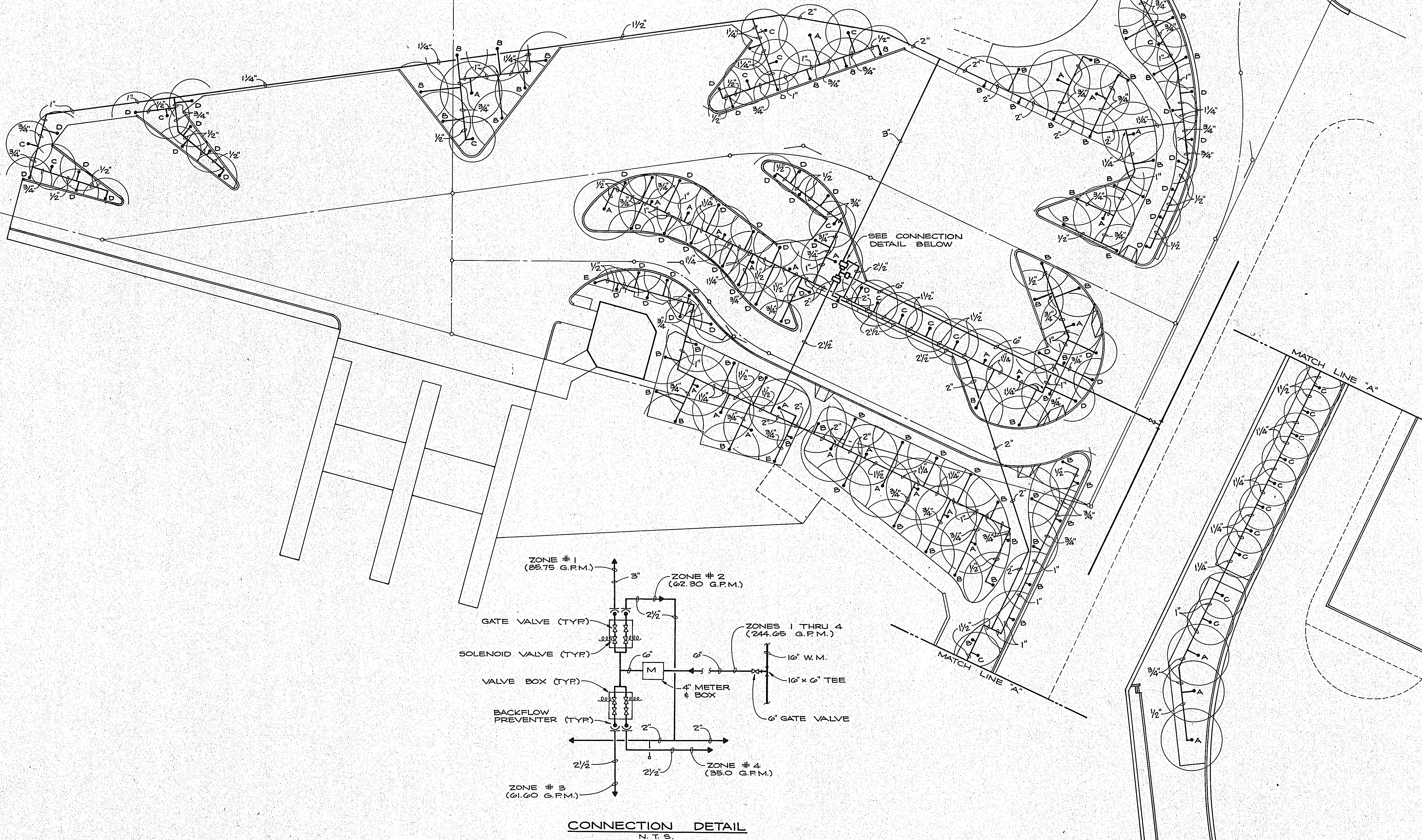
TYPE	SHAPE	RAIN-BIRD MODEL NO.	DESCRIPTION	OPERATING PRESSURE (P.S.I.)	DISCHARGE (G.P.M.)	RADIUS (FT.)	INLET (IN.)
A	○	2800A-FU	Impact Pup-up	15	1.40	9	1/2"
B	◐	2800A-HU	Impact Pup-up	15	0.70	9	1/2"
C	◑	2800A-QU	Impact Pup-up	15	0.35	9	1/2"
D	○	2800A-F	Impact Pup-up	15	2.80	12	1/2"
E	◐	2800A-H	Impact Pup-up	15	1.40	12	1/2"
F	◑	2800A-T	Impact Pup-up	15	0.93	12	1/2"
G	◒	2800A-Q	Impact Pup-up	15	0.70	12	1/2"
H	◓	2800A-EST	Impact Pup-up	15	0.60	5x16	1/2"
J	◔	2800A-CST	Impact Pup-up	30	1.30	7x18	1/2"
K	∇	2200-H	Stream Bubbler	2	1.10	3	1/2"

REVISIONS

NO.	DATE	DESCRIPTION



IRRIGATION SCHEDULE							
TYPE	SHAPE	RAIN BIRD MODEL NO.	DESCRIPTION	OPERATING PRESSURE (P.S.I.)	DISCHARGE (G. P. M.)	RADIUS (FT.)	INLET (IN.)
A	⊙	2800A - F	POP-UP SPRAY	15	2.80	12	1/2"
B	⊙	2800A - H	POP-UP SPRAY	15	1.40	12	1/2"
C	⊙	2800A - FU	POP-UP SPRAY	15	1.40	9	1/2"
D	⊙	2800A - HU	POP-UP SPRAY	15	0.70	9	1/2"
E	⊙	2800A - QU	POP-UP SPRAY	15	0.35	9	1/2"



NO. _____

DATE _____

REVISIONS	
NO.	DATE

DES. _____

DRAW. _____

SHEET _____

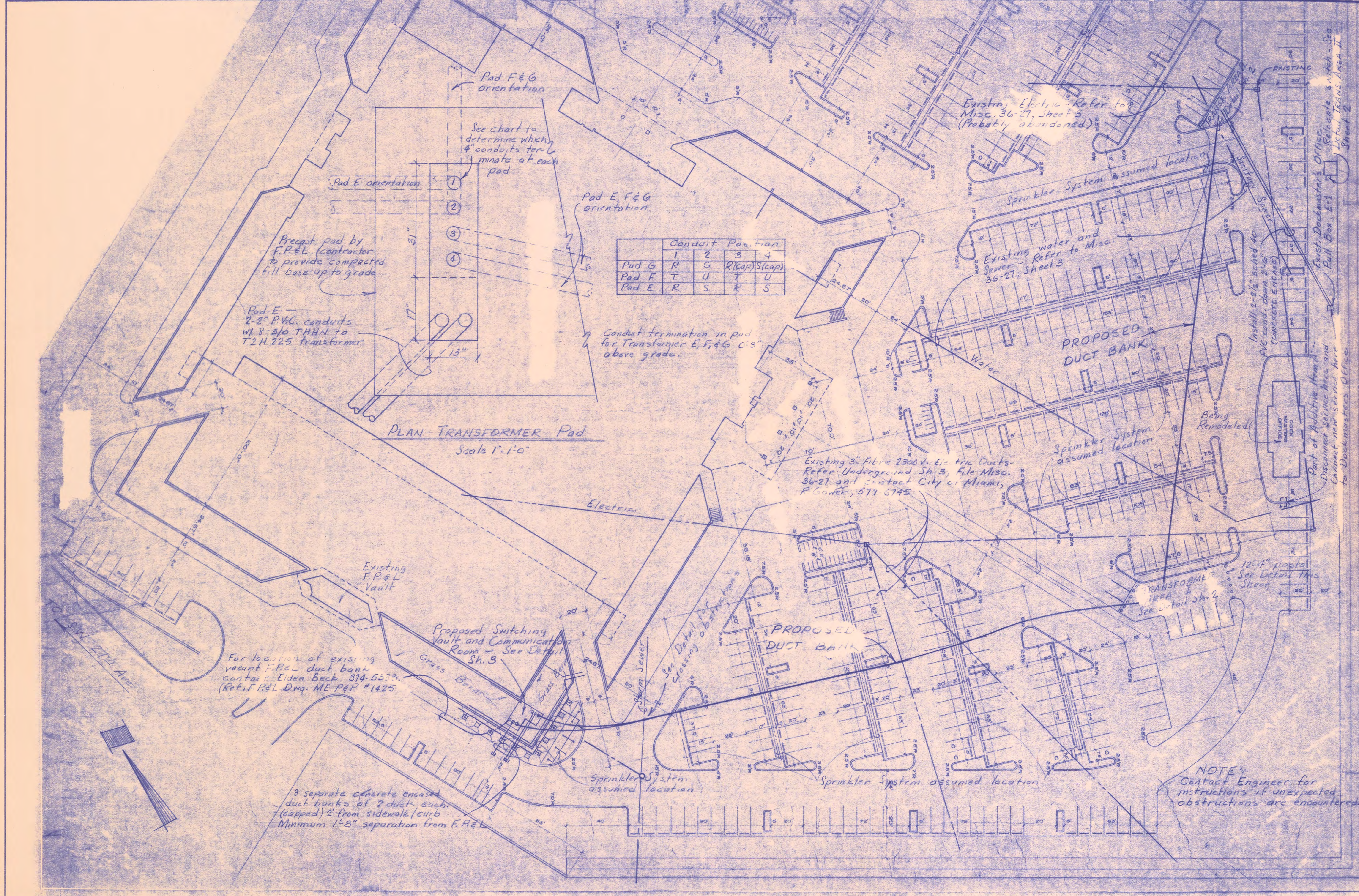
CHK'D _____

APP'D _____

DATE _____

FILE _____

OF _____



3'-0" min. or as allowed by Engineer (Over or under obstruction)

5'-6" 2'-4" 1'-0" 2'-4" 3'-0" 3'-0" 3'-0" 3'-0"

Sewer or other obstruction

Duct roll-out detail use when necessary for crossing obstructions

Install 2'-2 1/2" x 2'-0" x 40' (CONCRETE ENCASE)

Part of Additive Area

Disconnect service here and connect new service here to Deckmaster's Office

4' 2" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0" 3'-0"

See roll out Detail Sh. 3

TYPICAL DUCT BANK CROSS SECTION

Scale 1/2"=1'-0"

4' 1d gal pipe driven into exist ground full of concrete

3'-0" 2'-0"

POST DETAIL

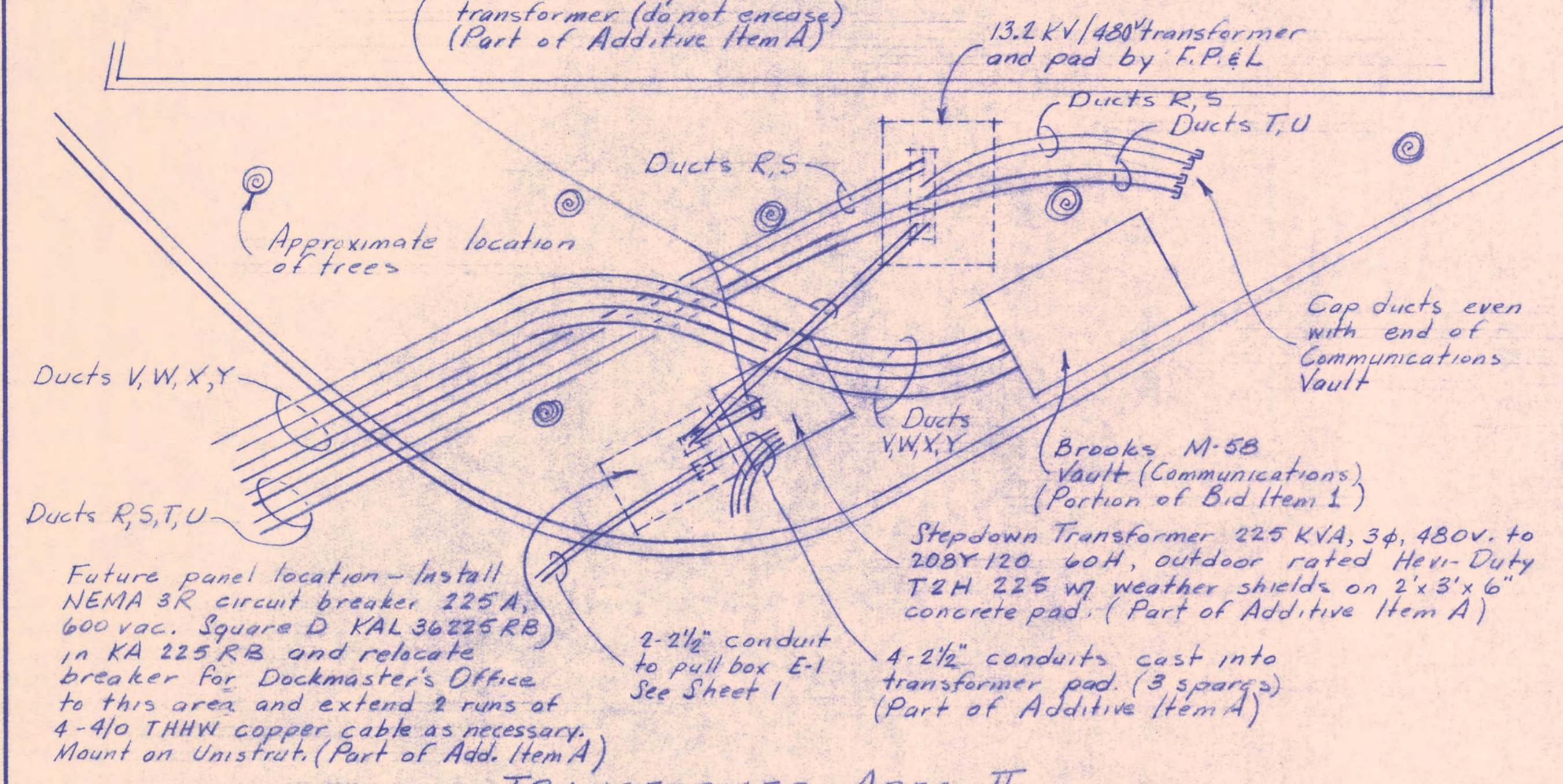
Scale 3/4"=1'-0"

PLOT PLAN

Scale 1"=30'

NOTE:

Relocate trees as necessary to minimize bends in 4" conduit.

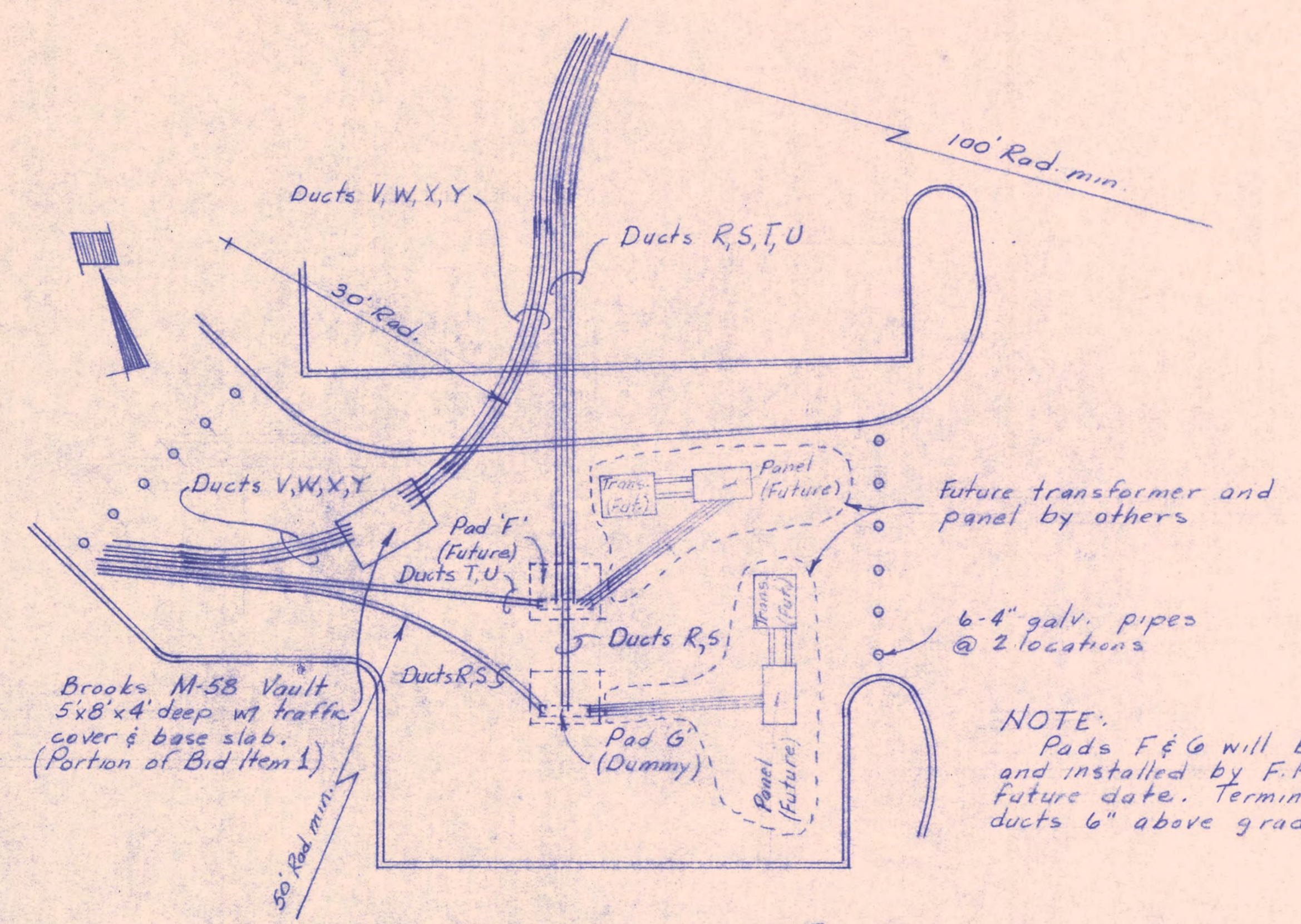


TRANSFORMER AREA II

Scale 1" = 10'

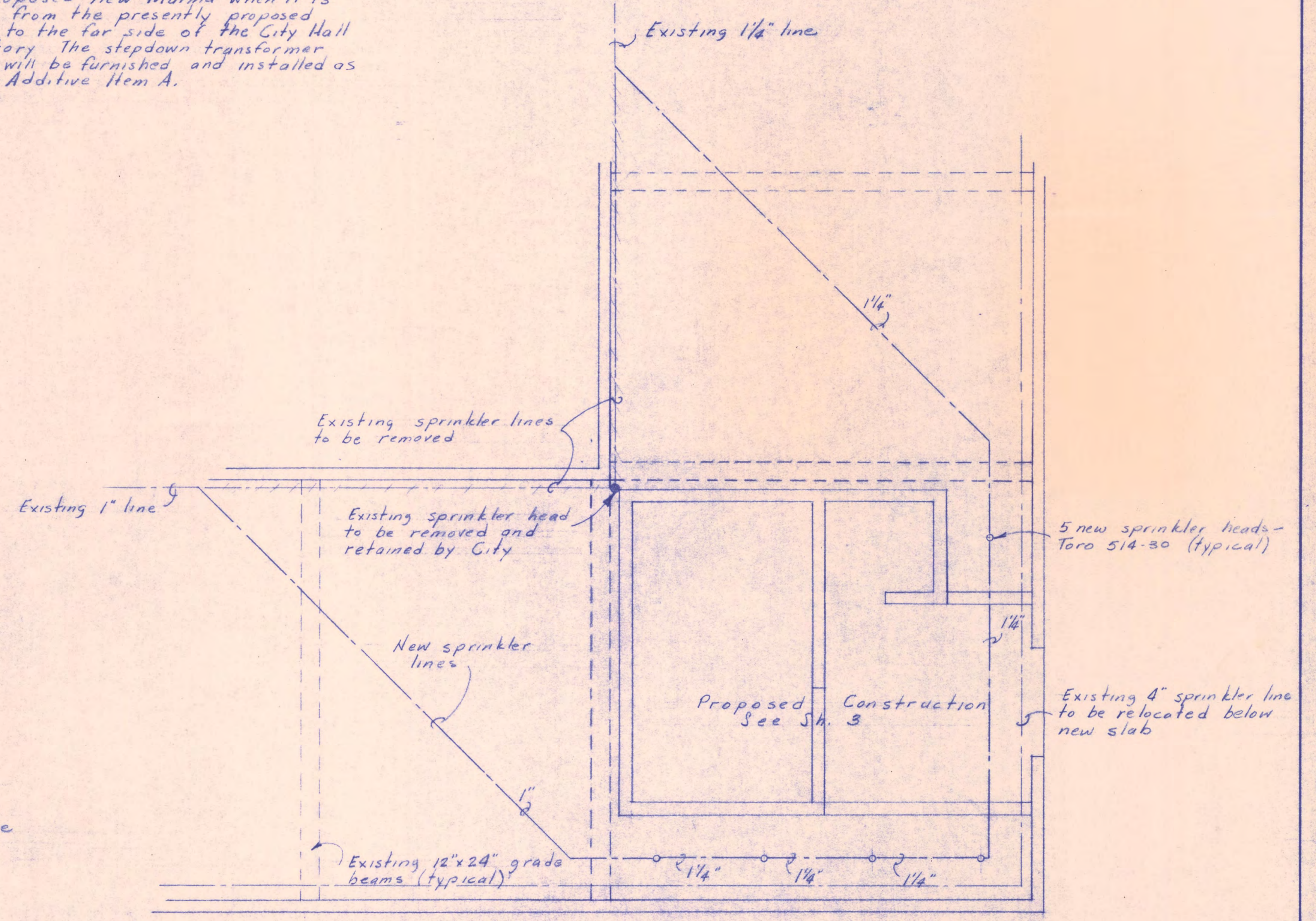
NOTE:

All cables, transformer, dummy transformer and pads to be furnished and installed by F.P. & L. except for Dockmaster Office as noted. Transformers are connected to same meter as at present and will be leased to City. This installation is adequate to serve the entire proposed new Marina when it is extended from the presently proposed terminus to the far side of the City Hall Promontory. The stepdown transformer (225 KVA) will be furnished and installed as part of Additive Item A.



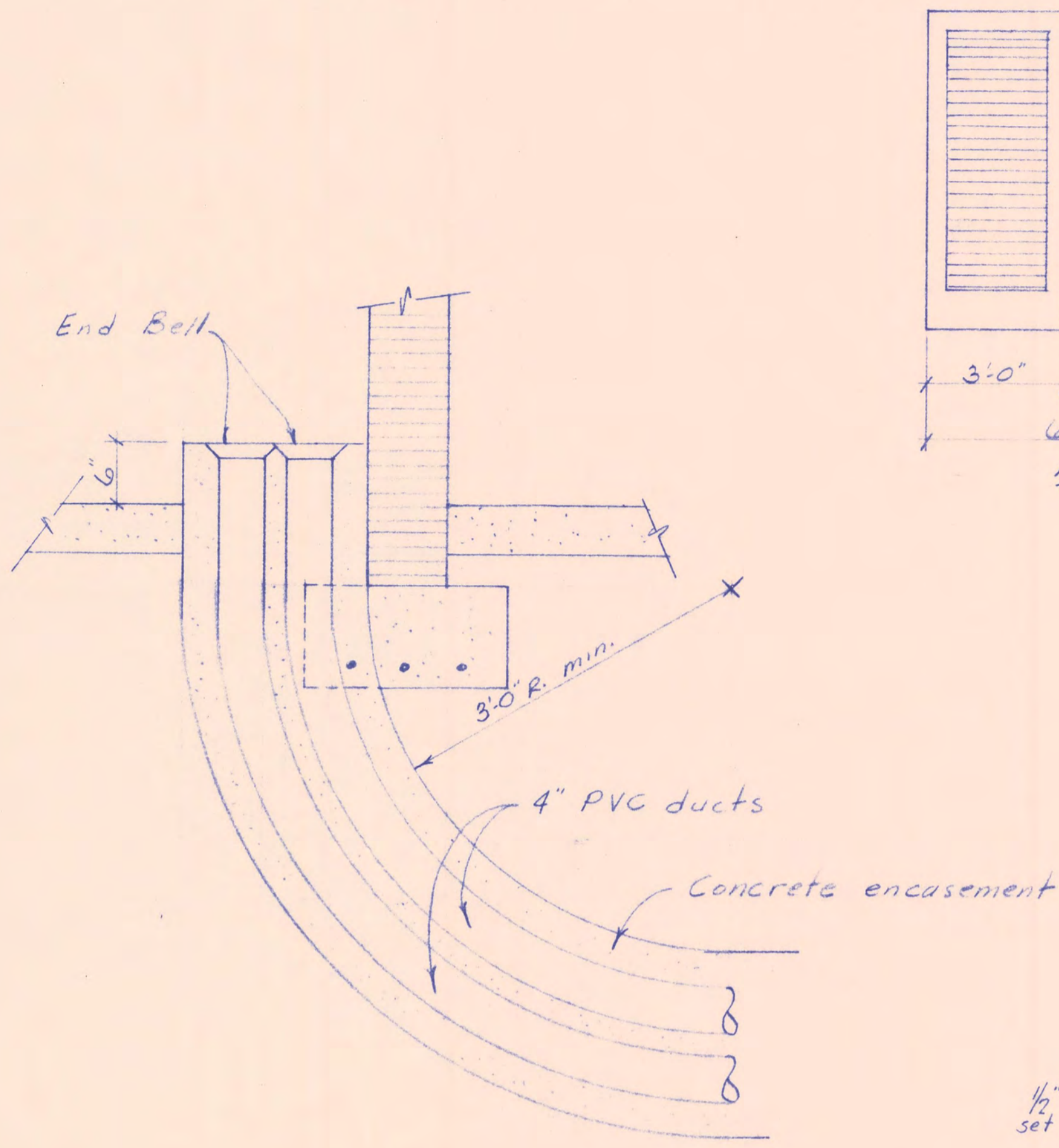
TRANSFORMER AREA I

Scale 1" = 10'

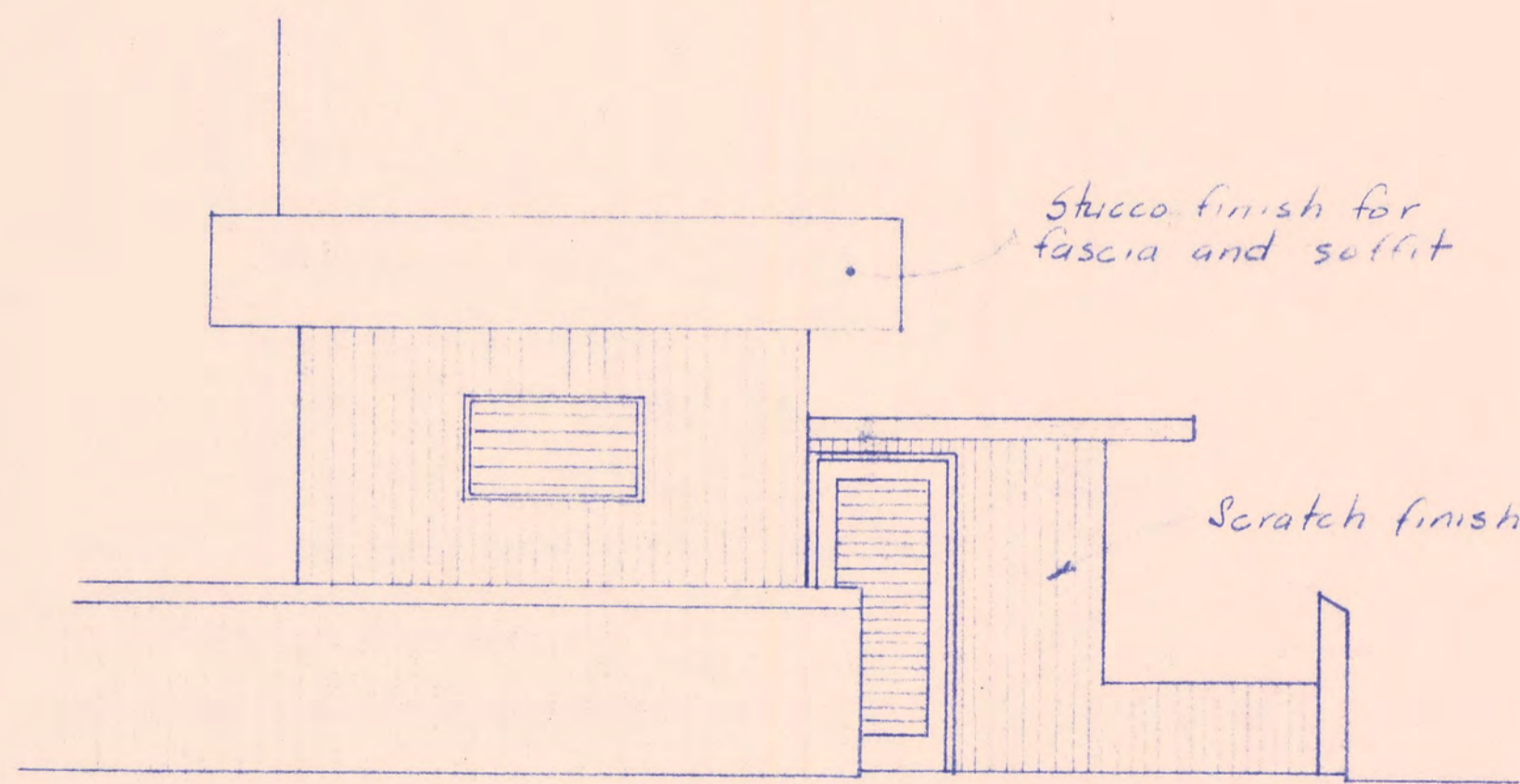


PLAN - SPRINKLER SYSTEM

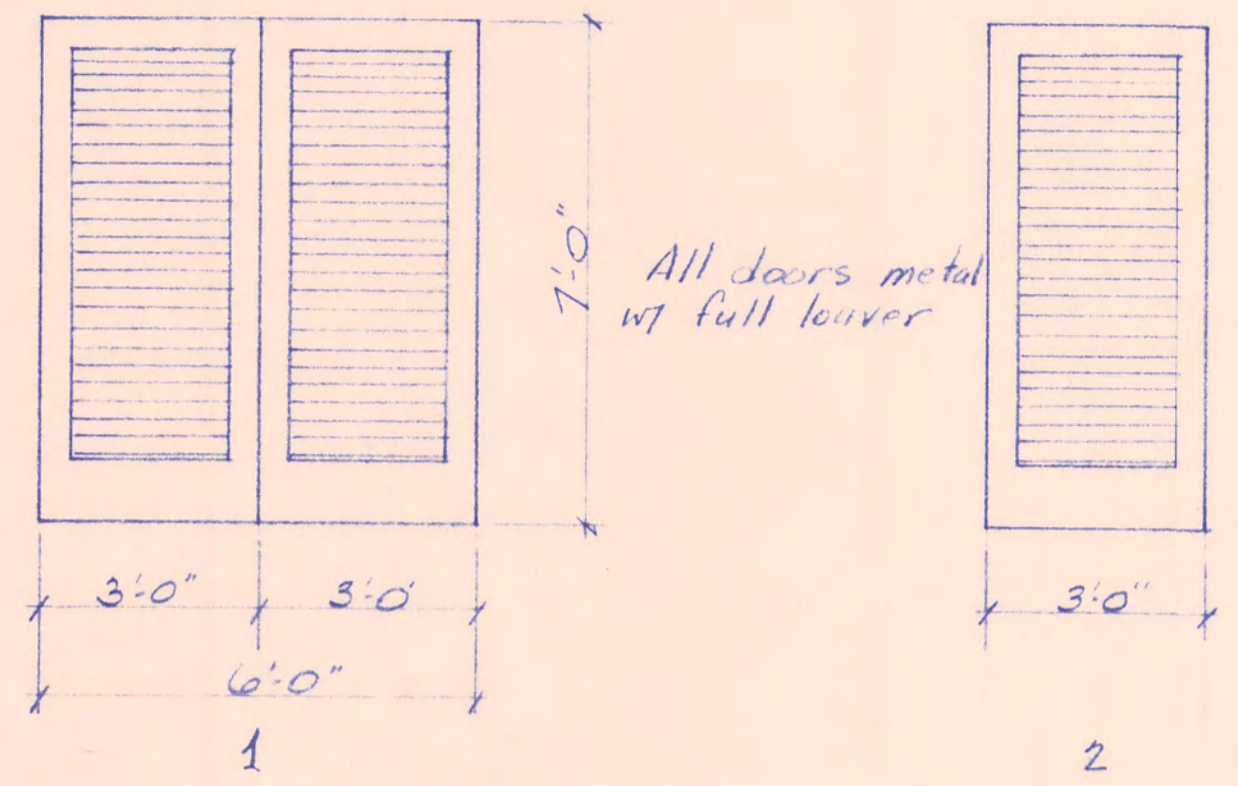
Scale 1/4" = 1'0"



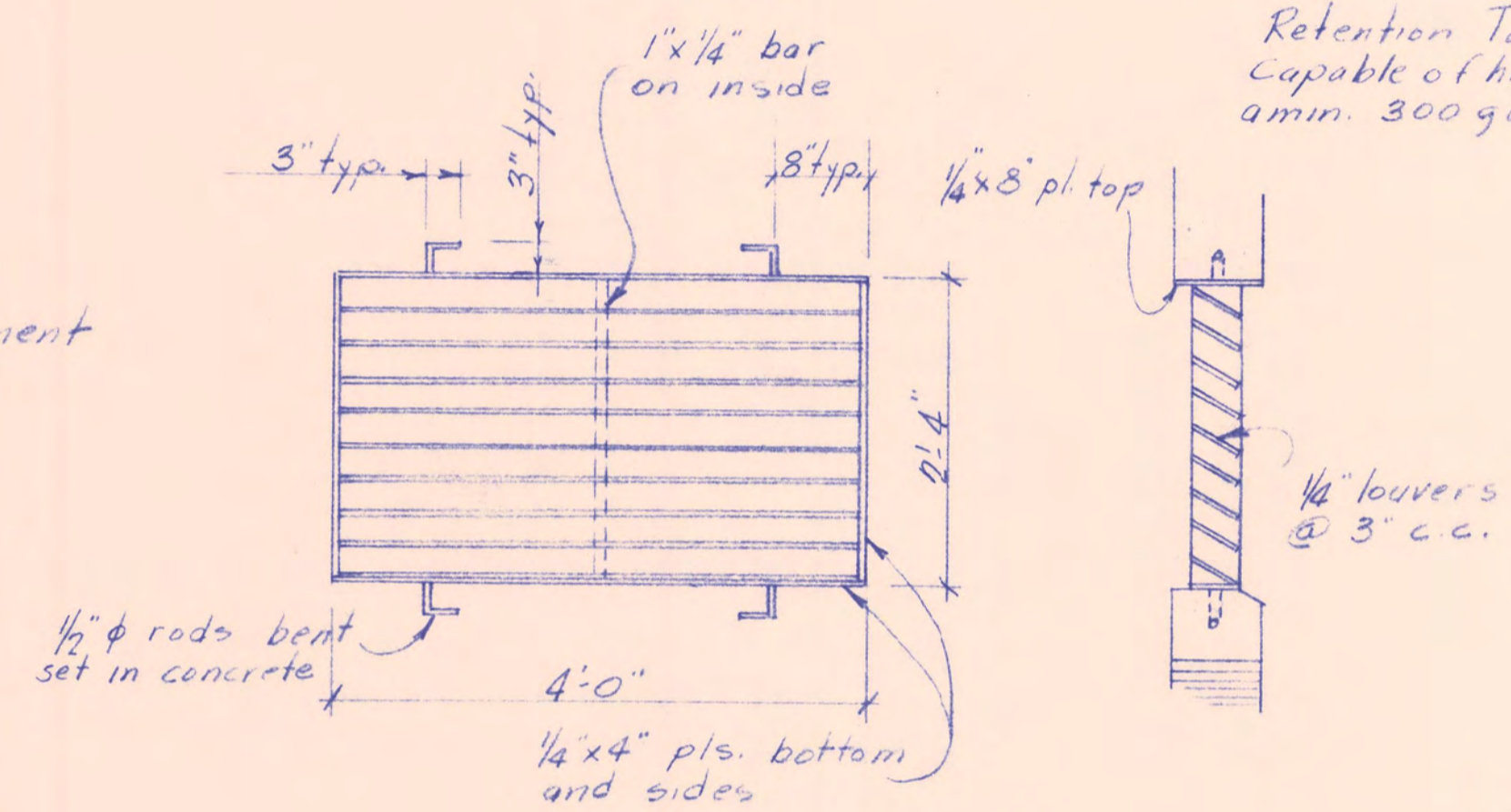
DUCT BANK DETAIL
Scale 1" = 1'-0"



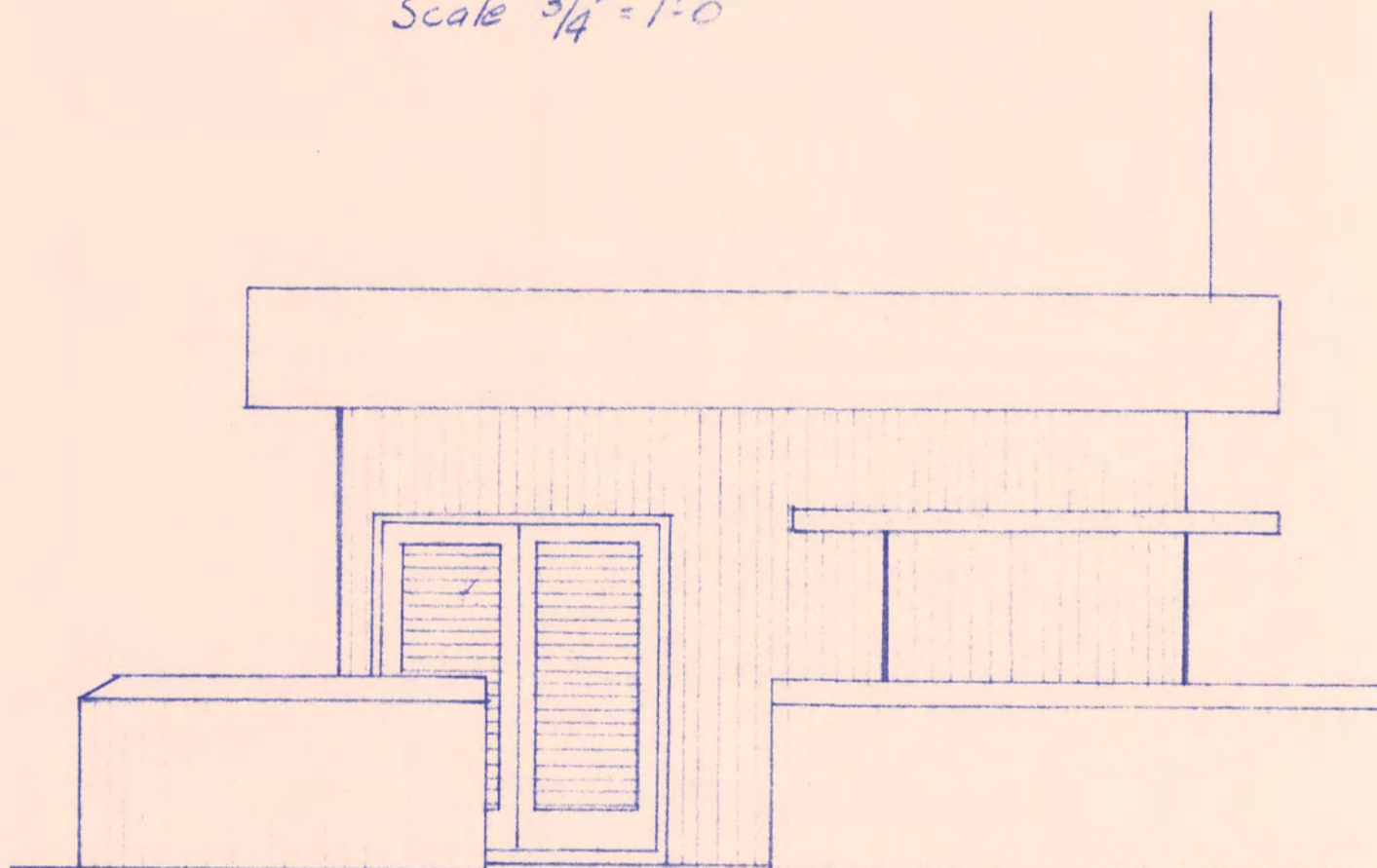
ELEVATION A
Scale 1/4" = 1'-0"



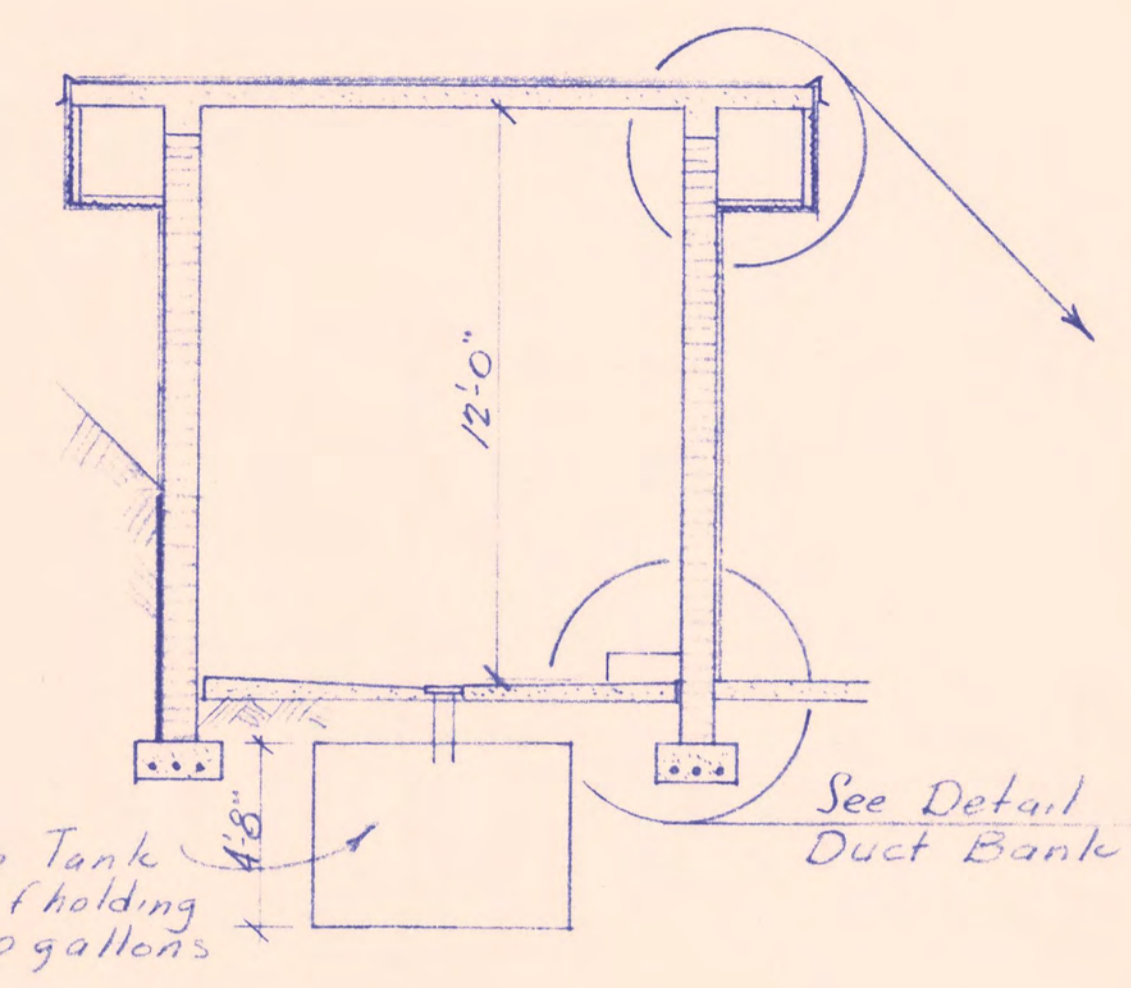
DOOR SCHEDULE
Scale 3/8" = 1'-0"



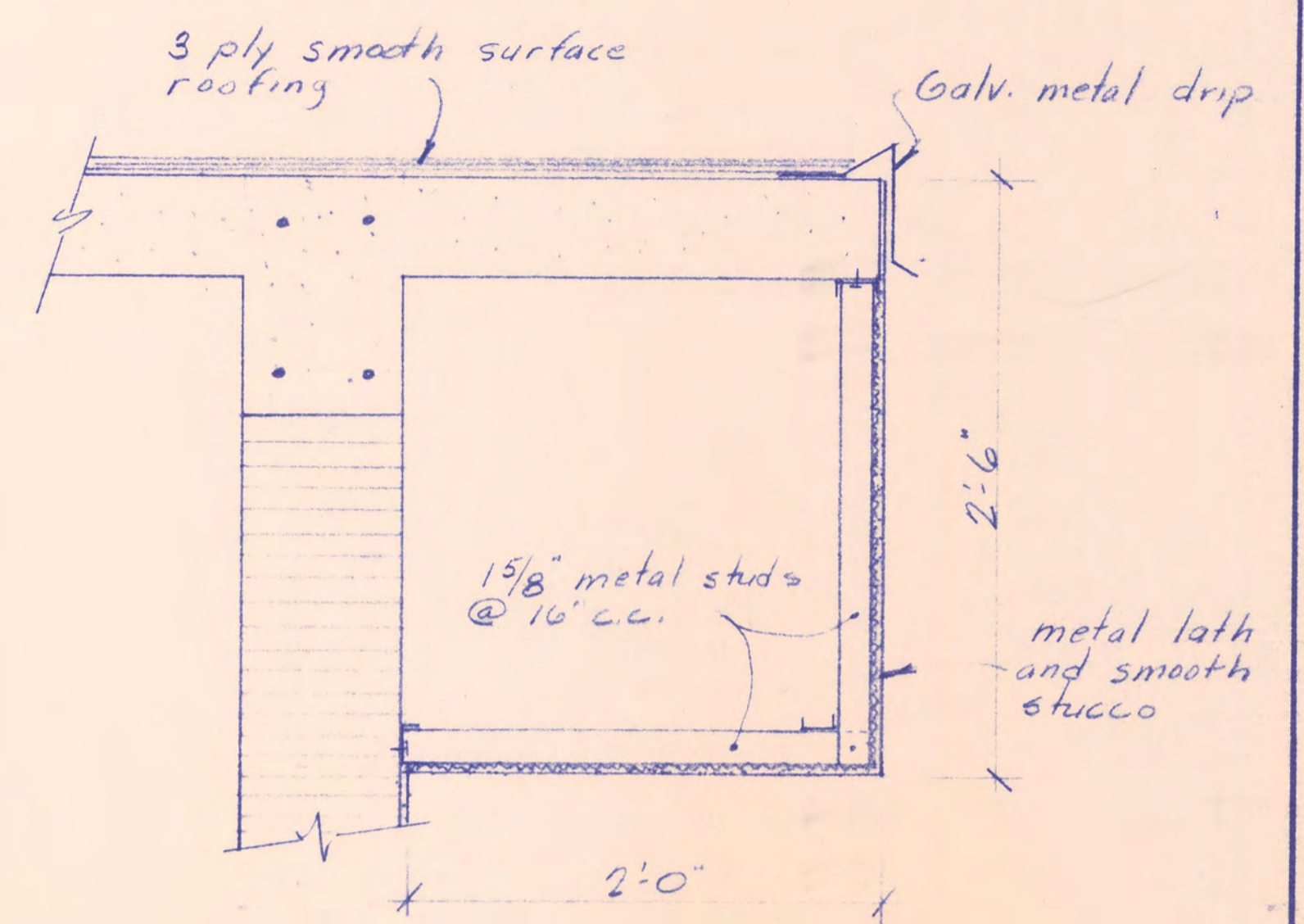
LOUVER DETAIL
Scale 3/4" = 1'-0"



ELEVATION B
Scale 1/4" = 1'-0"

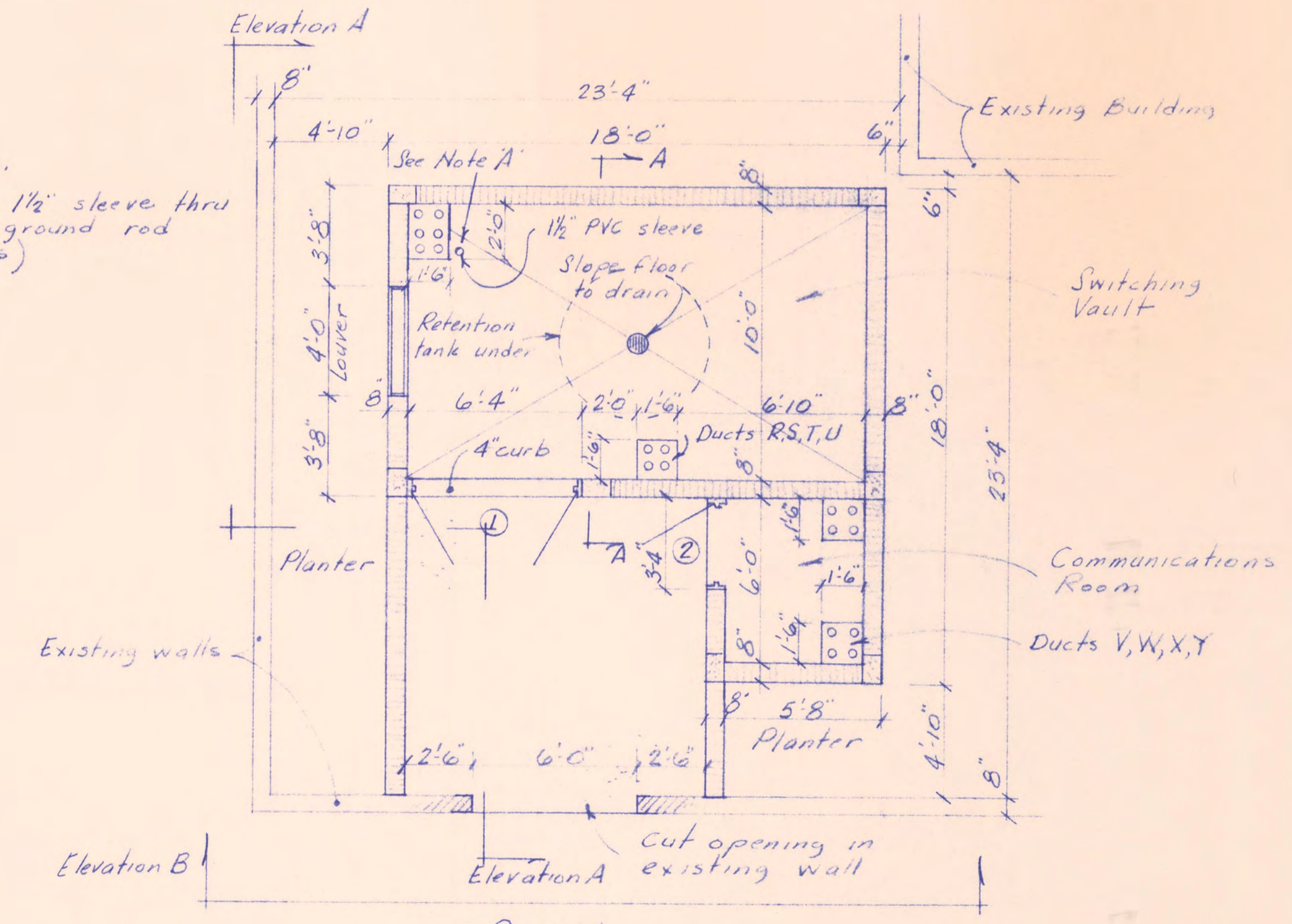


SECTION A-A
Scale 1/4" = 1'-0"



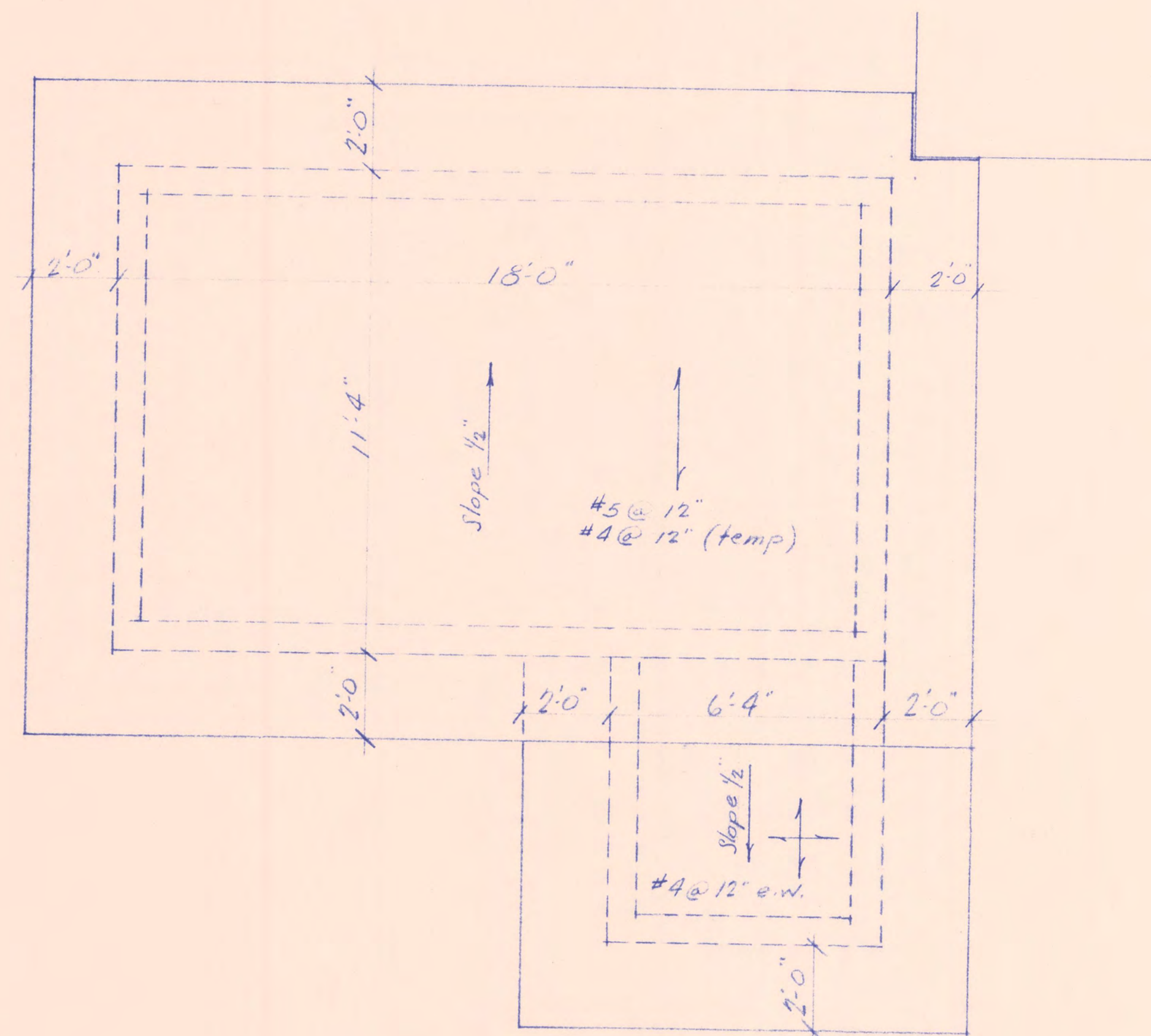
EAVE DETAIL
Scale 1 1/2" = 1'-0"

NOTE 'A'
Provide 1 1/2" sleeve thru slab (for ground rod by others)



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

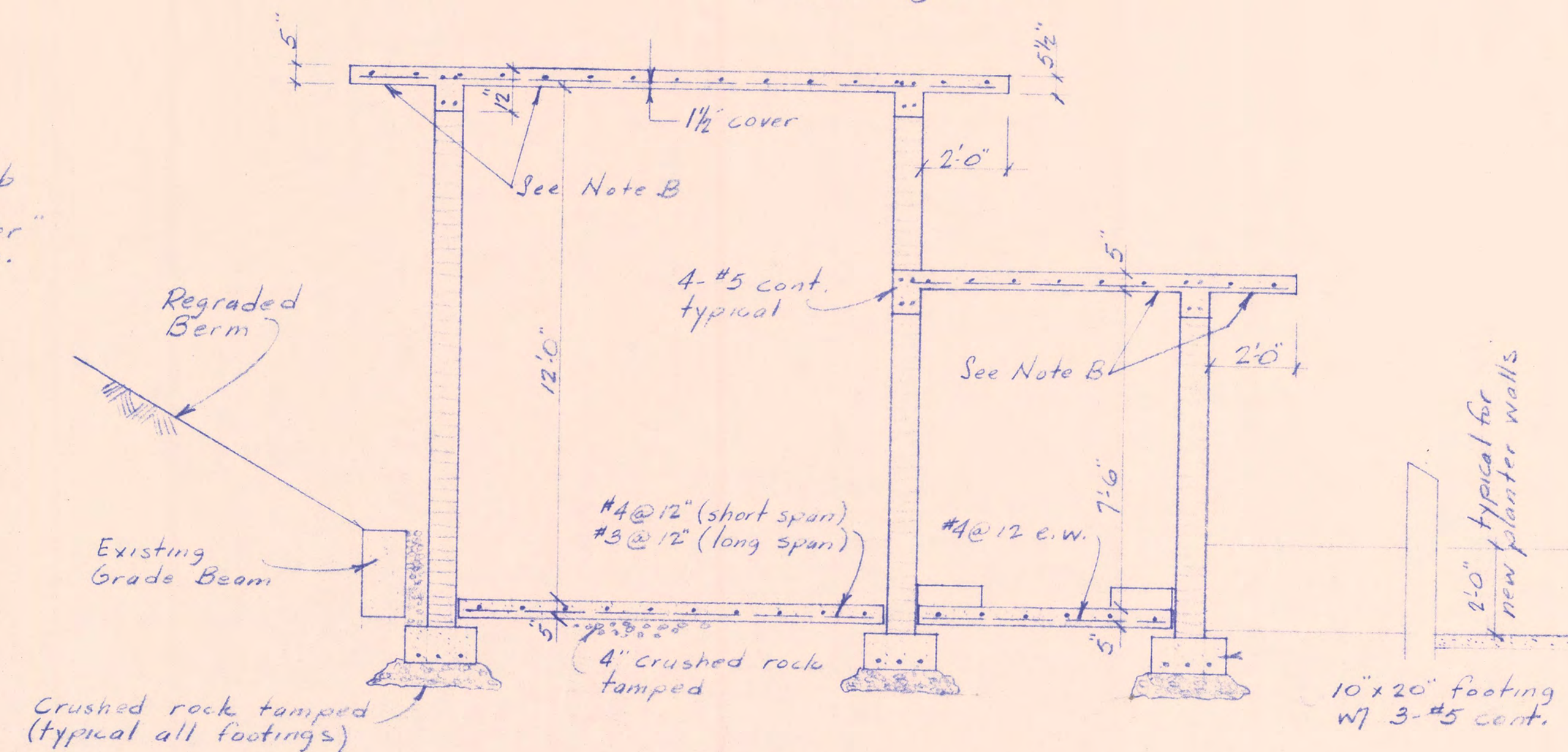
PLANTER NOTES:
The planters shall be filled with a black dirt and sand planting mix to a depth of at least 12". 50 Philodendron Selloum plants in 3 gallon containers be spread evenly throughout the planter areas.



ROOF PLAN

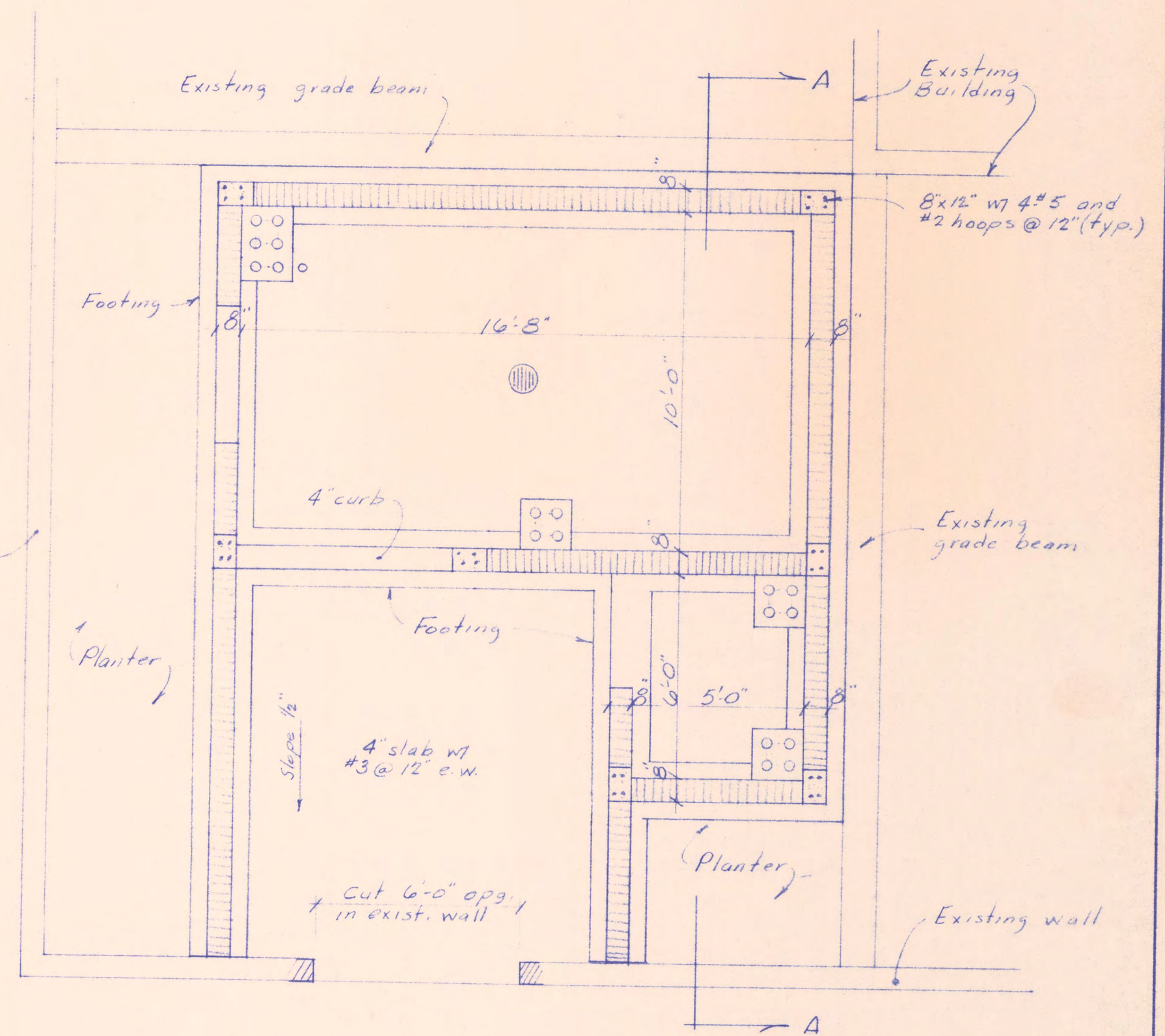
Scale 3/8" = 1'-0"

NOTE B:
Coat underside of slab with penetrant, such as "Koppers Clear Concrete Sealer" or Carboline #1340 clear.



SECTION A-A

Scale 3/8" = 1'-0"



FOUNDATION PLAN

Scale 3/8" = 1'-0"

BRUNING 40107 46200

DES. Connor	CK. Connor							
DR. Peard	DATE May '85	DATE	BY	MARK	REVISIONS	DATE	BY	MARK

DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA

SCALE: Noted

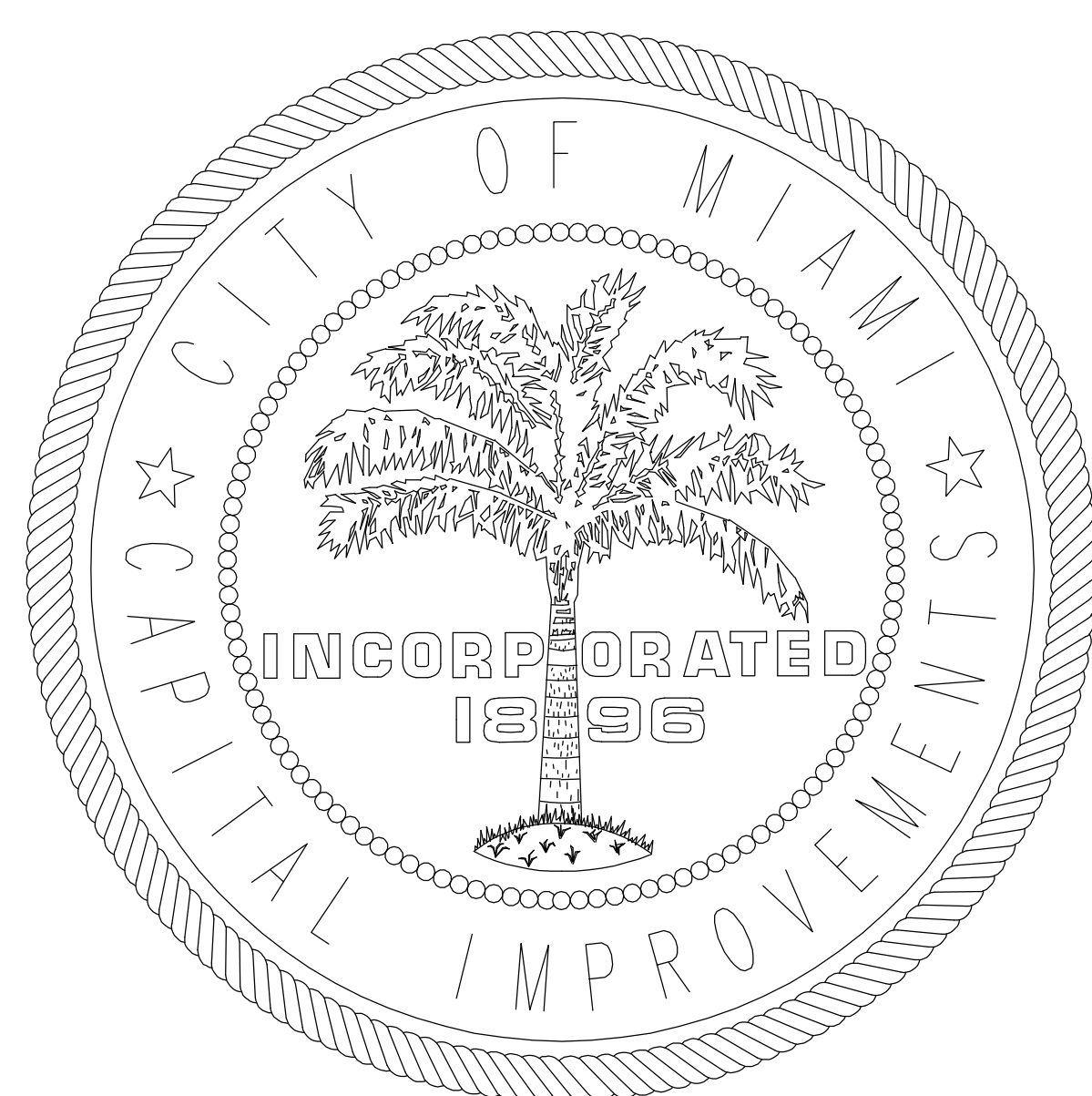
-DINNER KEY MARINA- ELECTRICAL IMPROVEMENTS-

JOB NO. B-32024 SHEET NO. 4
FILE NO. DK 250 OF 4 SHEETS

DINNER KEY MARINA PIER 3 REPAIRS

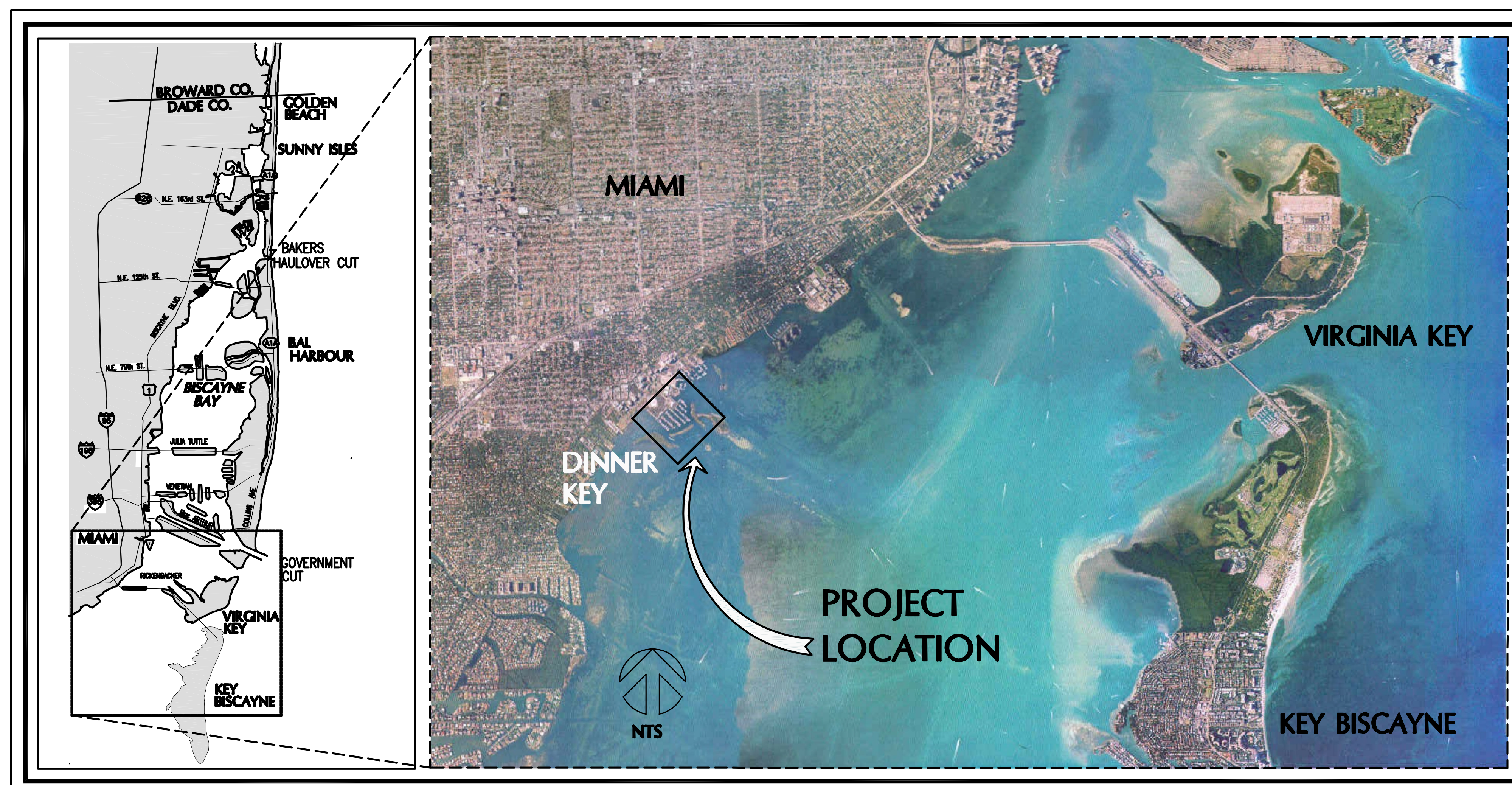
FOR THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS

3500 PAN AMERICAN DRIVE
MIAMI, FL 33133



COMMISSION

Mayor	Manuel A. Diaz
Commissioner Dist. 1	Angel Gonzalez
Commissioner Dist. 2	Marc D. Sarnoff
Commissioner Dist. 3	Joe Sanchez
Commissioner Dist. 4	Tomas Regalado
Commissioner Dist. 5	Michelle Spence-Jones
City Manager	Pedro G. Hernandez P.E.
Capital Improvements Program Director	Ola Aluko



LOCATION MAP

MIAMI, FL

PROJECT ADDRESS:
3400 PAN AMERICAN DRIVE
MIAMI, FL 33133

Sheet List Table

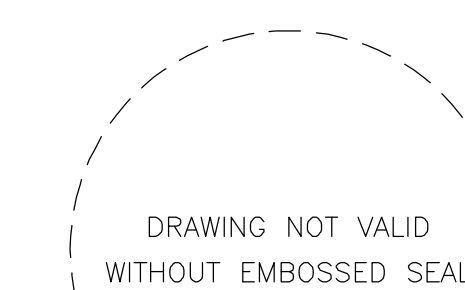
Sheet Label	Sheet Title
G-1	COVER
G-2	GENERAL NOTES
G-3	SITE SURVEY
S-1	DEMOLITION PLAN
S-2	REPAIR PLAN
S-3	PILE & PILE CAP PLAN
S-4	BEAM & DECKING PLAN
S-5	SECTIONS AND DETAILS I
S-6	SECTIONS AND DETAILS II
UTL-1	UTILITY PLAN
UTL-2	UTILITY DETAILS
E-1	GENERAL ELECTRICAL NOTES AND LEGEND
E-2	SITE PLAN
E-3	PIER 3 DEMOLITION & NEW WORK
E-4	ELECTRICAL DETAILS
E-5	SINGLE LINE DIAGRAMS (EXISTING)
E-6	ELECTRICAL DETAILS



COASTAL SYSTEMS INTERNATIONAL, INC.
464 South Dixie Highway, Coral Gables, Florida 33146
Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsInt.com
STATE OF FLORIDA EB #7087

Coastal, Environmental, Civil Engineering and Management

100% SUBMITTAL
PERMIT SET



T. K. BLANKENSHIP
FL. REG. 55910

DATE	REV	DESCRIPTION	BY
7/6/06	-	100% SUBMITTAL	MRR
7/10/07	A	SPRINK REVISIONS	CS
07/08/08	B	ISSUED FOR PERMIT	JMB
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

GENERAL NOTES:

1. THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH MARINE CONSTRUCTION AS SHOWN ON THESE DRAWINGS AND SPECIFIED IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL ABIDE BY ALL NOTES AND CONDITIONS INDICATED ON THE CONSTRUCTION PLANS AND PERMITS. IF THE CONTRACTOR VIOLATES ANY CONDITION OF THE PERMIT AND WORK IS STOPPED BY A PUBLIC ENTITY, THEN ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR SHALL BE PAID BY THE CONTRACTOR AND NOT CHARGED TO THE OWNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL PERMITS NECESSARY FOR THIS WORK. A PRECONSTRUCTION MEETING WILL BE HELD ON SITE TO VERIFY DETAILS AND METHODS OF CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OTHER UPLAND CONTRACTORS ON SITE.
6. OWNER IS RESPONSIBLE FOR OBTAINING ENVIRONMENTAL PERMITS FOR THE PROJECT. A COPY WILL BE PROVIDED TO THE CONTRACTOR, AND THE CONTRACTOR SHALL ABIDE BY ALL REGULATIONS AND PERMIT CONDITIONS.
7. ANY DISCREPANCIES IN THE PLANS WITH FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONSTRUCTION SHALL NOT CONTINUE UNTIL THE ENGINEER HAS ADDRESSED THE DISCREPANCIES.
8. FOR LEGEND SYMBOLS, REFER TO INDIVIDUAL PLAN SHEETS.
9. REFER TO UTILITY SHEETS FOR RESPECTIVE NOTES.
10. DINNER KEY IS AN OPERATING MARINA. CONTRACTOR SHALL COORDINATE WORK WITH MARINA MANAGEMENT TO AVOID AND/OR MINIMIZE DISRUPTION OF OPERATIONS.
11. THESE PLANS ARE INCOMPLETE WITHOUT THE TECHNICAL SPECIFICATIONS.

DESIGN LOADS:

1. ALL DOCKS ARE DESIGNED FOR 100 PSF LIVE LOAD.

SURVEY NOTES:

1. UPLAND SURVEY DATA PERFORMED BY HIGH SURVEYING AND MAPPING, DATED 9/05/05.
2. ELEVATIONS REFERENCED TO NGVD UNLESS OTHERWISE NOTED. REFER TO DATUM DIAGRAM ON SHEET G-3.
2. COORDINATES ARE IN FEET, REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983.

DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY THE EXTENTS, LOCATION AND QUANTITIES OF EXISTING ELEMENTS TO BE REMOVED.
2. CONTRACTOR TO COORDINATE WITH OWNER FOR DISCONNECTION OF EXISTING UTILITIES.
3. ALL DEBRIS WITHIN THE LIMITS OF THE PROJECT SHALL BE HAULED OFF SITE BY THE CONTRACTOR, AS DIRECTED BY THE OWNER, AND DISPOSED OF AT AN APPROPRIATE FACILITY.
4. CONTRACTOR TO CONFIRM DISPOSABLE OR REUSABLE MATERIALS FROM DEMOLITION WITH OWNER PRIOR TO REMOVAL/RELOCATION.
5. CONTRACTOR SHALL NOT DAMAGE ANY STRUCTURAL COMPONENTS BEYOND THE DEMOLITION REQUIREMENTS DEPICTED IN THESE DRAWINGS. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

TIMBER NOTES:

1. TIMBER MOORING PILES SHALL BE GREENHEART AND SHALL BE DRIVEN TO ACHIEVE A MINIMUM BEARING CAPACITY OF 10 KIPS WITH THE FOLLOWING PENETRATION CRITERIA:
SOFT SOIL: 15 FEET
LIME ROCK: 5 FEET

DECKING MATERIALS:

1. ALL DECKING MATERIAL USED ON THE LETTER DOCKS SHALL BE DURAGRID 2" PULTRUDED FIBERGLASS GRATING AS MANUFACTURED BY STRONGWELL - CHATFIELD DIVISION, CHATFIELD, MINNESOTA (OR APPROVED EQUAL) REFER TO DECKING PLANS FOR SPECIFIC INSTALLATION LOCATIONS.

HARDWARE NOTES:

1. ALL BOLTS AND HARDWARE SHALL BE 316 STAINLESS STEEL FOR MARINE APPLICATIONS UNLESS OTHERWISE NOTED.
2. ALL ALUMINUM LADDERS SHALL BE INTERNATIONAL DOCK PRODUCTS OR EQUIVALENT, 6 STEPS.
3. ALL CLEATS SHALL BE ALUMINUM ALMAG "S" OR EQUIVALENT, SIZE 15-INCH.

CONCRETE NOTES:

1. ALL CONCRETE MATERIALS, REINFORCEMENT, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION 346, 400, AND 415 EXCEPT AS NOTED.
2. PROVIDE CHAMFERS ON ALL EXPOSED EDGES AND CORNERS EXCEPT AS OTHERWISE NOTED.
3. CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN WILL REQUIRE APPROVAL BY THE ENGINEER.
4. ALL CAST-IN-PLACE CONCRETE TO BE A MINIMUM OF 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS (TESTING).
5. PROVIDE MIX DESIGN FOR A CLASS IV CONCRETE FOR AN EXTREMELY AGGRESSIVE (MARINE) ENVIRONMENT. PROVIDE SUFFICIENT AMOUNT OF FLY ASH, MICROSILICA, OR SLAG TO THE CEMENT CONTENT TO INCREASE IMPERMEABILITY OF CONCRETE MAX W/C = 0.40.
6. CURE PLACED CONCRETE IN ACCORDANCE WITH FDOT SPECIFICATION 400-16.1.
7. EXPANSION JOINT MATERIAL SHALL BE ASPHALT EMPREGNATED FIBER EXPANSION BOARD, UNLESS OTHERWISE NOTED. CONTRACTOR TO SUBMIT PRODUCT CUT SHEETS AND SPECIFICATIONS FOR ENGINEER'S APPROVAL.
8. ALL PRECAST CONCRETE BEAMS SHALL BE PLACED ON $\frac{1}{2}$ " THICK NEOPRENE BEARING PADS.

PRESTRESSED CONCRETE PILING:

1. PROVIDE AND INSTALL CONCRETE PILING IN ACCORDANCE WITH FDOT SPECIFICATION 455.
2. PILES SHALL BE MANUFACTURED BY AN APPROVED FACILITY.
3. CONCRETE SHALL BE FDOT CLASS IV (SPECIAL) FOR AN EXTREMELY AGGRESSIVE (MARINE) ENVIRONMENT. PROVIDE SUFFICIENT FLY ASH, MICROSILICA OR SLAG TO THE CEMENT CONTENT TO INCREASE IMPERMEABILITY OF CONCRETE.
4. CONCRETE SHALL HAVE A MINIMUM OF 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
5. ALL PILES SHALL BE DRIVEN A MINIMUM OF 5' INTO THE LIMESTONE LAYER. CONTRACTOR SHALL BE PREPARED TO PRE-PUNCH OR PRE-DRILL HOLES AS NECESSARY TO INSTALL PILING INTO LIMESTONE.
6. CONTRACTOR TO DRIVE A MINIMUM OF ONE (1) INDICATOR PILE AS INDICATED TO CONFIRM ESTIMATED PILE LENGTHS PRIOR TO ORDER OF PRODUCTION PILING. PROVIDE OWNER ONE (1) WEEK NOTICE PRIOR TO INSTALLATION OF SAID PILING FOR ENGINEER TO MONITOR TESTING.
7. PILE DRIVING SHALL BE INSPECTED BY AN INDEPENDENT GEOTECHNICAL ENGINEER HIRED BY THE OWNER.

LAYOUT AND TESTING:

1. ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY AND PAID FOR BY THE CONTRACTOR.
2. ALL TESTING AND INSPECTION FOR CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, AND SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY PROVIDED BY THE OWNER.
3. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS IN SUFFICIENT DETAILS TO ILLUSTRATE THE HORIZONTAL AND VERTICAL COMPONENTS OF ABOVE AND BELOW GROUND STRUCTURES AND WALLS RELATIVE TO THE CONSTRUCTION BASELINE.

REINFORCING STEEL:

1. ALL CONCRETE BEAMS, SLABS, PILE CAPS AND CLOSURE POURS TO USE MMFX MICROCOMPOSITE (MMFX2) STEEL REBAR, UNLESS OTHERWISE NOTED.
2. CONCRETE PILING WILL NOT USE MMFX2 STEEL REBAR, SEE CONCRETE PILE NOTES FOR REINFORCING SPECIFICATIONS.
3. MMFX2 REBAR CERTIFIED AS ASTM A615 GRADE 75 (520) MEETS THE MECHANICAL PROPERTY REQUIREMENTS AS ASTM A-1035-04.
4. MMFX2 MATERIAL PROPERTIES:
MIN. TENSILE STRENGTH = 150 KSI
MIN. SPECIFIED YIELD STRENGTH = 100 KSI
DESIGN YIELD STRENGTH PER ACI 318-02 = 80 KSI
ELONGATION IN 8-INCH BAR SIZE NUMBER'S 3 THROUGH 11 = 7%
5. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE TO CENTER LINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
6. NO METAL CHAIRS OR OTHER METAL OBJECTS SHALL BE USED TO SUPPORT REINFORCING CAGES. PLASTIC CHAIRS OR MASONARY BLOCKS ARE ACCEPTABLE, PROVIDED SHOP DRAWINGS ARE SUBMITTED TO THE ENGINEER FOR REVIEW.
7. MINIMUM CONCRETE COVER SHALL BE 3" TO THE OUTSIDE OF REINFORCING BARS.
8. PLASTIC ZIP-TIES MAY BE SUBSTITUTED FOR WIRE TIES, PROVIDED SHOP DRAWINGS ARE SUBMITTED TO THE ENGINEER FOR REVIEW.

SHOP DRAWINGS:

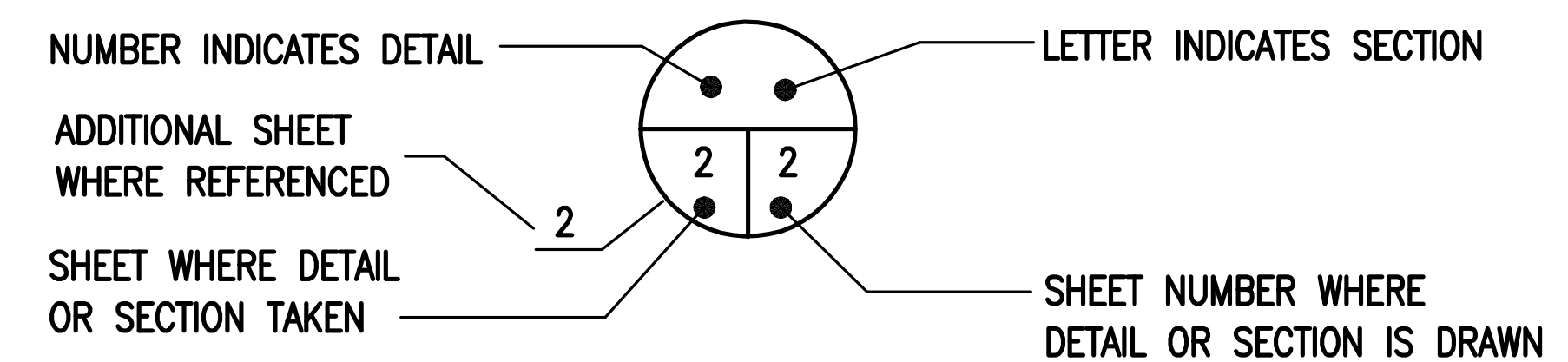
1. CONTRACTOR TO SUBMIT MATERIAL CUT SHEETS, SHOP DRAWINGS AND SPECIFICATIONS OF THE FOLLOWING ITEMS FOR ENGINEER'S APPROVAL, PRIOR TO PROCUREMENT OR INSTALLATION:

- A. DEMOLITION METHODS AND DISPOSAL PLAN
- B. CONCRETE MIX DESIGNS FOR CAST-IN-PLACE AND PRESTRESSED CONCRETE
- C. CURING COMPOUND (IF APPLICABLE)
- D. REINFORCING STEEL
- E. PILE DRIVING MEANS AND METHODS INCLUDING PILE HAMMER DATA
- F. FORMWORK
- G. SCHEDULE FOR COMPLETION OF WORK WITH TASKS AND DURATIONS DEFINED
- H. TIMBER PILES
- I. MARINE HARDWARE
- J. NEOPRENE BEARING PADS

ABBREVIATIONS

ALUM. _____	ALUMINUM	MAX. _____	MAXIMUM
APPROX. _____	APPROXIMATE	MIN. _____	MINIMUM
		MHW _____	MEAN HIGH WATER
		MHHW _____	MEAN HIGHER HIGH WATER
		MLW _____	MEAN LOW WATER
		MSL _____	MEAN SEA LEVEL
BD. _____	BOARD		
BLDG. _____	BUILDING		
CL _____	CENTER LINE	OA _____	ON CENTER
CLG. _____	CEILING	O.C. _____	ON CENTER
CLR. _____	CLEAR	O.D. _____	OUTSIDE DIAMETER
CONC. _____	CONCRETE	O/H _____	OVER HEAD
CONT. _____	CONTINUOUS	OPP. _____	OPPOSITE
CU. FT. _____	CUBIC FOOT	PVC _____	POLYVINYL CHLORIDE PIPE
CU. IN. _____	CUBIC INCH	R / RAD. _____	RADIUS
CU. YD. _____	CUBIC YARD		
DIA./Ø _____	DIAMETER	SQ. FT. _____	SQUARE FOOT
EA. _____	EACH	SQ. IN. _____	SQUARE INCH
ELEV. / EL. _____	ELEVATION	SQ. YD. _____	SQUARE YARD
EXP. JT. _____	EXPANSION JOINT	SS _____	STAINLESS STEEL
EXIST. _____	EXISTING	STL _____	STRUCTURAL
FM _____	FORCE MAIN	STRUC. _____	STRUCTURAL
G.S.P. _____	GALVANIZED STEEL PIPE	UTIL. / UTL. _____	UTILITY
JST. _____	JOIST	V _____	VERTICAL
LB. _____	POUND	W _____	WIDE
LF _____	LINEAR FEET	YD _____	YARD
LGTH. _____	LENGTH		
LIN. _____	LINEAR		
LL _____	LIVE LOAD		
LRS. _____	LOW RELAXATION STRANDS		

SECTION DETAIL LABEL SECTION TITLE LABEL



DATE	7/8/06
DATE	1/10/07
DATE	07/09/08
DESCRIPTION	100% SUBMITTAL
	SPINNO REVISIONS
	ISSUED FOR PERMIT

COASTAL SYSTEMS INTERNATIONAL, INC.
 464 South Dixie Highway, Coral Gables, Florida 33146
 Tel: 305-681-3555 Fax: 305-681-1914 www.coastalsystemsintl.com
 STATE OF FLORIDA EB #7087
 Coastal, Environmental, Civil Engineering and Management

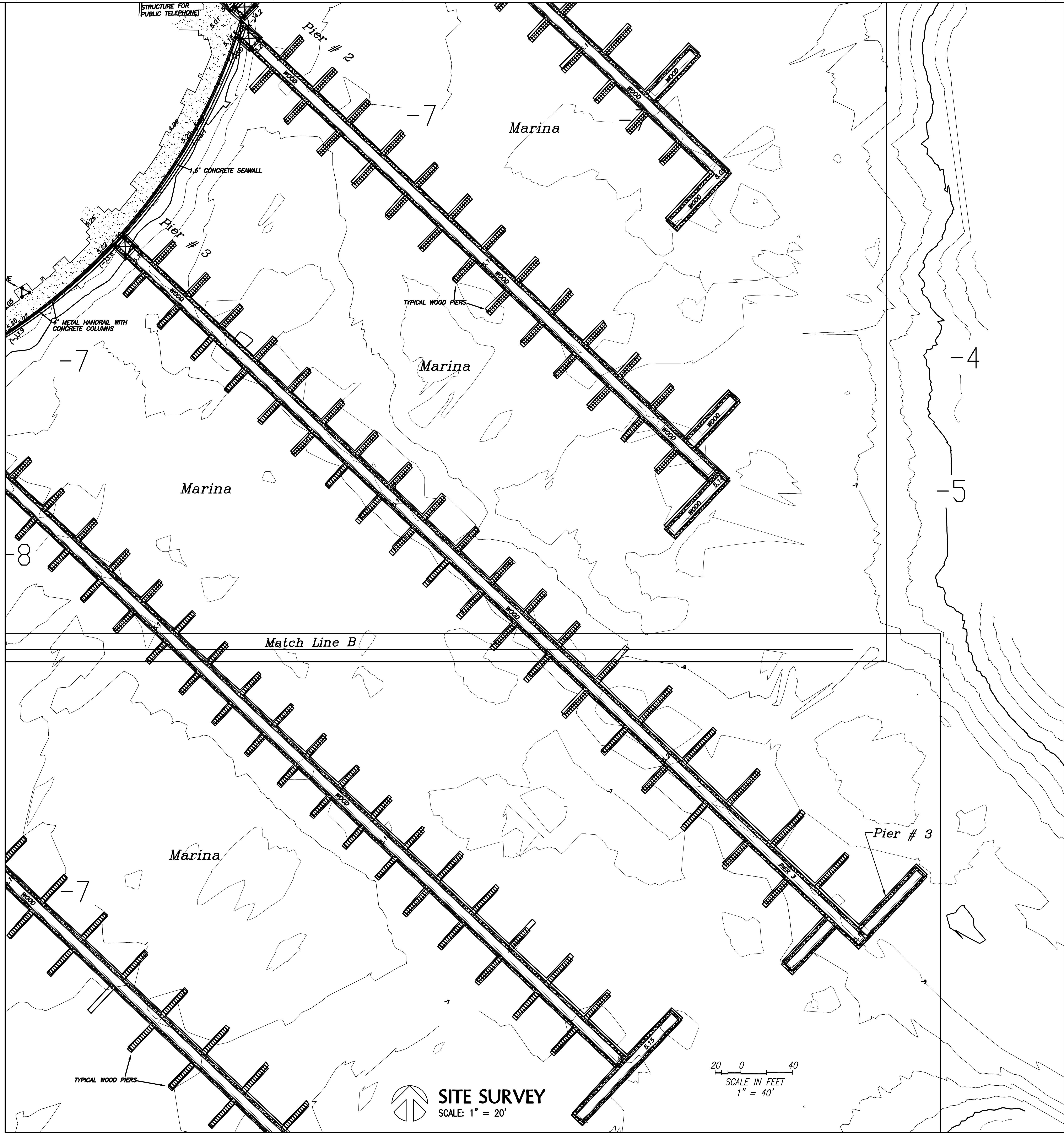
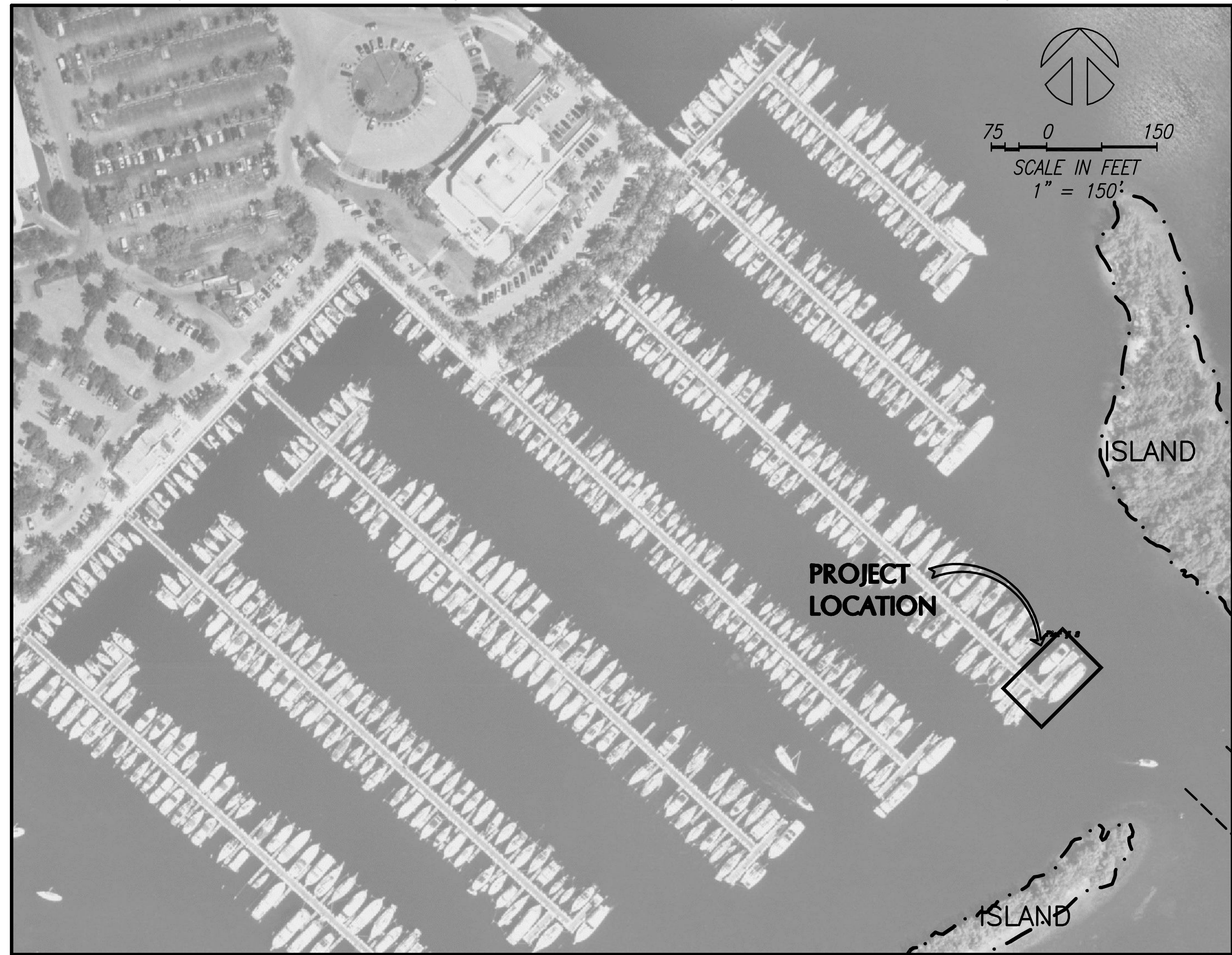
THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS
 DINNER KEY MARINA PIER 3 REPAIRS
 GENERAL NOTES

DRAWING NOT VALID WITHOUT EMBOSSED SEAL
 T. K. BLANKENSHIP
 P.L. REG. 55910

SCALE: N/A
 JOB: 220200.06
 DATE: 7/6/06
 DRAWN: MRR

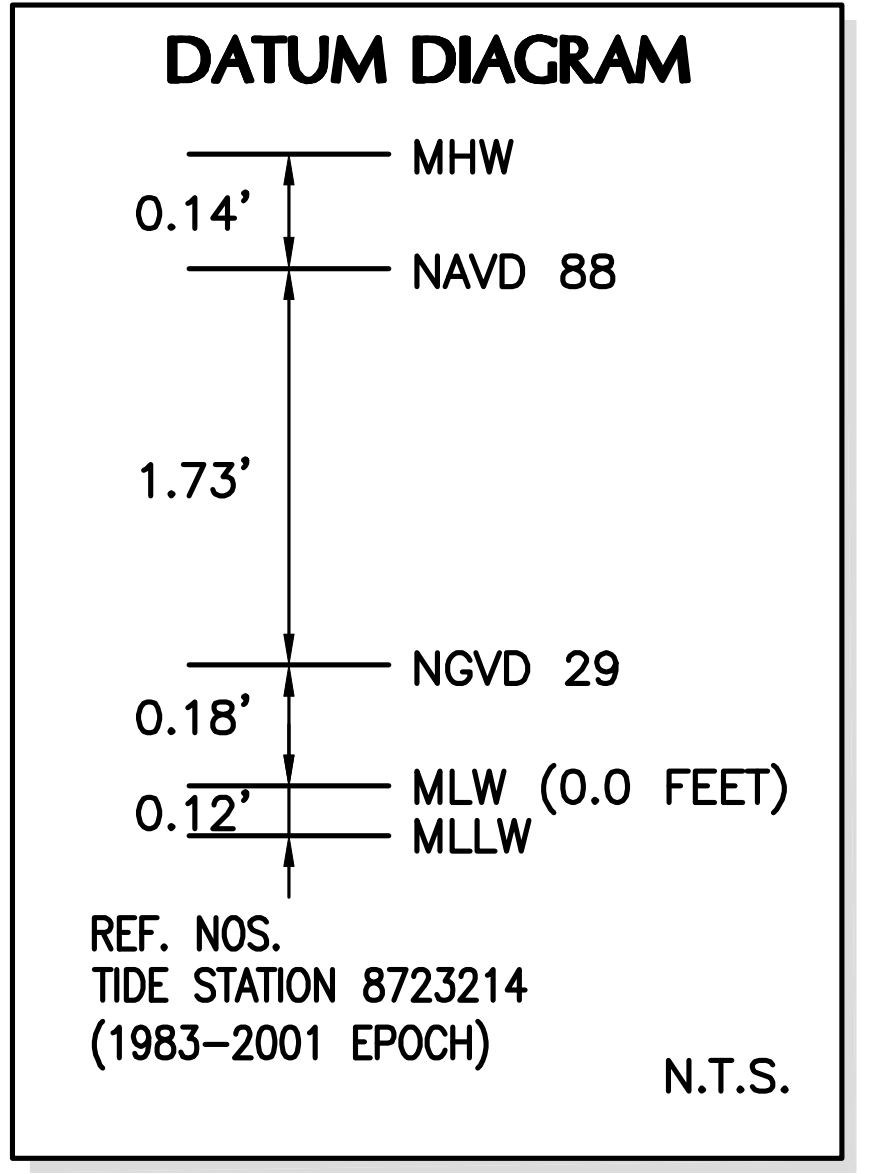
100% SUBMITTAL
 PERMIT SET

G-2
 2 OF 17 SHEETS



HYDROGRAPHIC SURVEY NOTES:

1. THE HYDROGRAPHIC INFORMATION SHOWN ON THIS MAP REPRESENTS THE RESULTS OF MEASUREMENTS PERFORMED ON MARCH AND APRIL, 2005 AND CAN ONLY BE CONSIDERED TO INDICATE THE GENERAL CONDITIONS EXISTING AT THE TIME.
2. SOUNDINGS ARE IN FEET AND REFERENCED TO MEAN LOW WATER.
3. VESSEL BASED SOUNDINGS WERE OBTAINED USING A ROSS MODEL 825 SURVEY FATHOMETER OPERATING AT 200 KHZ.
4. MEASUREMENTS NEAR DOCKS AND SEAWALLS WERE OBTAINED USING TRIMBLE RTK (REAL TIME KINEMATIC) GPS FOR BOTH HORIZONTAL AND VERTICAL MEASUREMENTS.
5. HORIZONTAL POSITIONING FOR VESSEL-BASED MEASUREMENTS WAS SUPPLIED VIA TRIMBLE DIFFERENTIAL GPS USING US COAST GUARD RADIO BEACON CORRECTIONS.
6. COORDINATES ARE IN FEET, REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983.
7. CONTOUR INTERVAL IS 1 FOOT.
8. DOCK SURVEY DATA PERFORMED BY HIGH SURVEYING AND MAPPING, DATED 09/05/05.
9. DOCK ELEVATIONS ON THIS SHEET ARE REFERENCED TO NGVD 1929.



DEMOLITION NOTES:

1. PIER EVALUATION CONDUCTED BY CSI ON 03/17/06.
2. DEMOLISH AND REMOVE ENTIRE PIER AS INDICATED INCLUDING EXISTING CONC. PILING.
3. REFER TO DEMOLITION NOTES, SHEET G-2

FILE NAME: F:\Project\220200\06\Construction Drawings\Working\220200_G-3.dwg

DATE	7/6/06
DATE	1/10/07
DATE	07/29/08
DESCRIPTION	100% SUBMITTAL
	SPINNO REVISIONS
	ISSUED FOR PERM
BY	MRR CS JMB

COASTAL SYSTEMS INTERNATIONAL, INC.
 464 South Dixie Highway, Coral Gables, Florida 33146
 Tel: 305-681-3655 Fax: 305-681-1814 www.coastalsystemsintl.com
 STATE OF FLORIDA EB #7087
 Coastal, Environmental, Civil Engineering and Management

THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS
 DINNER KEY MARINA PIER 3 REPAIRS
 SITE SURVEY
 EXISTING CONDITIONS

DRAWING NOT VALID WITHOUT EMBOSSED SEAL

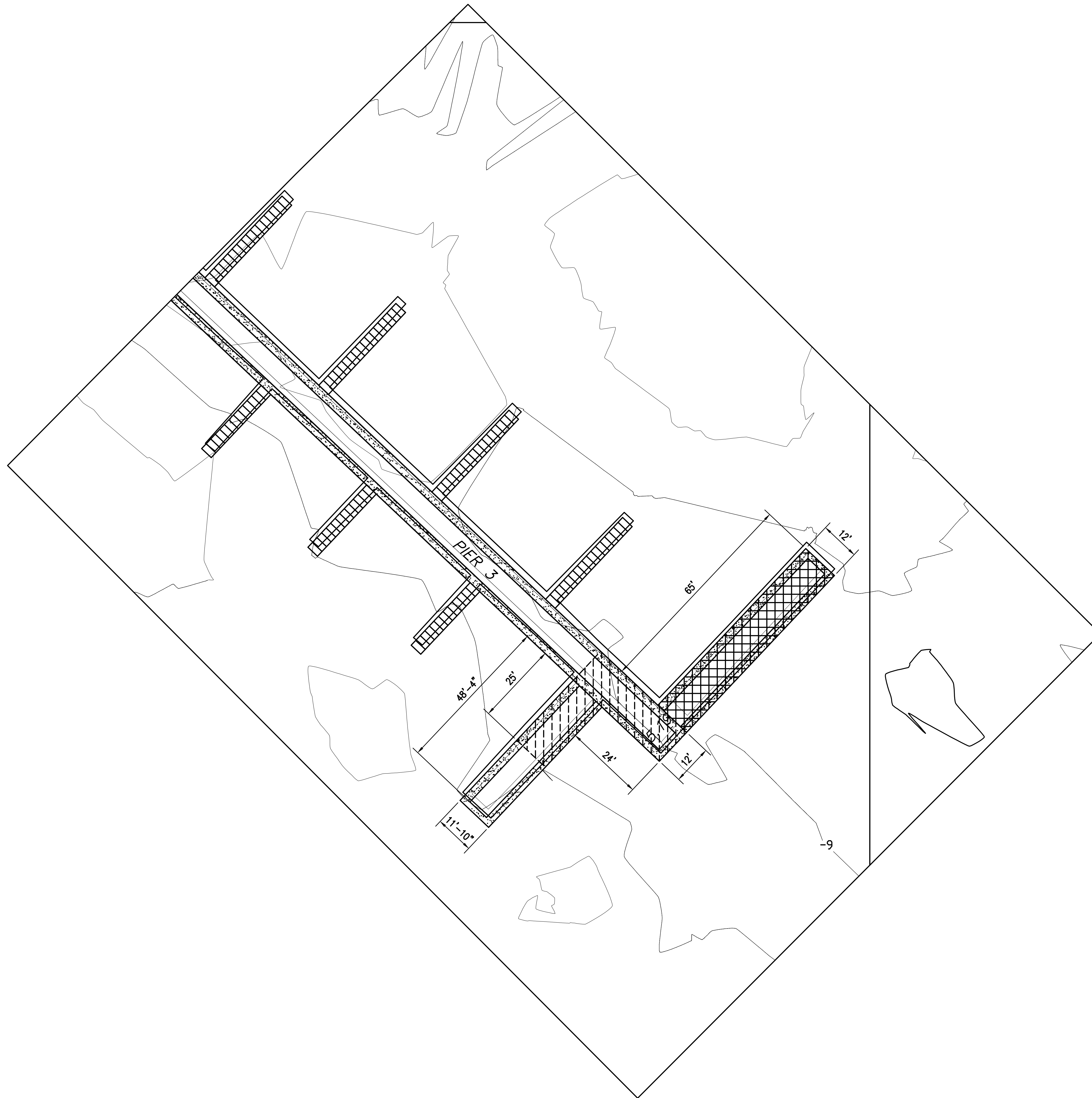
T. K. BLANKENSHIP
 FL. REG. 55910

SCALE:	AS SHOWN
JOB:	220200.06
DATE:	7/6/06
DRAWN:	MRR
G-3	
3 OF 17 SHEETS	

100% SUBMITTAL
 NOT TO BE USED FOR CONSTRUCTION

NOTE:
 ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

F:\Project\220200.06\Construction\Drawing\Working\220200_S-1.dwg



LEGEND

	DEMO AREA
	AREA OF REPAIR

DEMOLITION NOTES:

1. PIER EVALUATION CONDUCTED BY CSI ON 03/17/06.
2. DEMOLISH AND REMOVE ENTIRE PIER AS INDICATED INCLUDING EXISTING CONC. PILING.
3. REFER TO DEMOLITION NOTES, SHEET G-2

DEMOLITION PLAN
SCALE: 1" = 16'

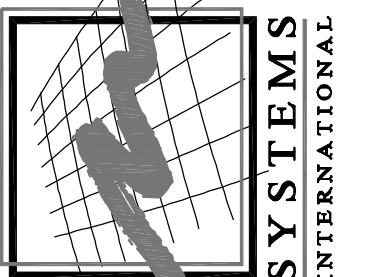
10 0 20
SCALE IN FEET
1" = 20'

100% SUBMITTAL
NOT TO BE USED FOR CONSTRUCTION

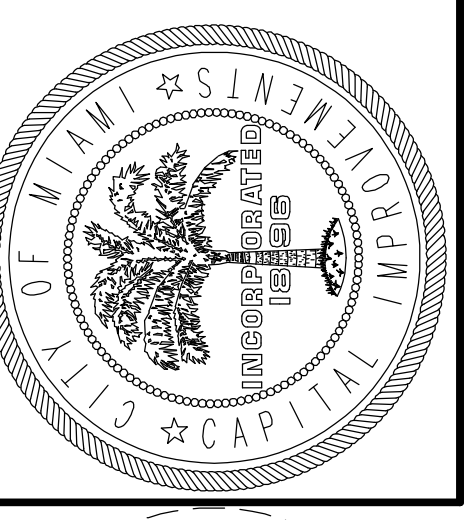
NOTE:
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

DATE	DESCRIPTION	BY
7/6/06	100% SUBMITTAL	MR CS
1/10/07	A SPMS REVISIONS	CS
07/09/08	B ISSUED FOR PERM	MR CS

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**THE CITY OF MIAMI DEPARTMENT OF
CAPITAL IMPROVEMENTS
DINNER KEY MARINA PIER 3 REPAIRS
DEMOLITION PLAN**

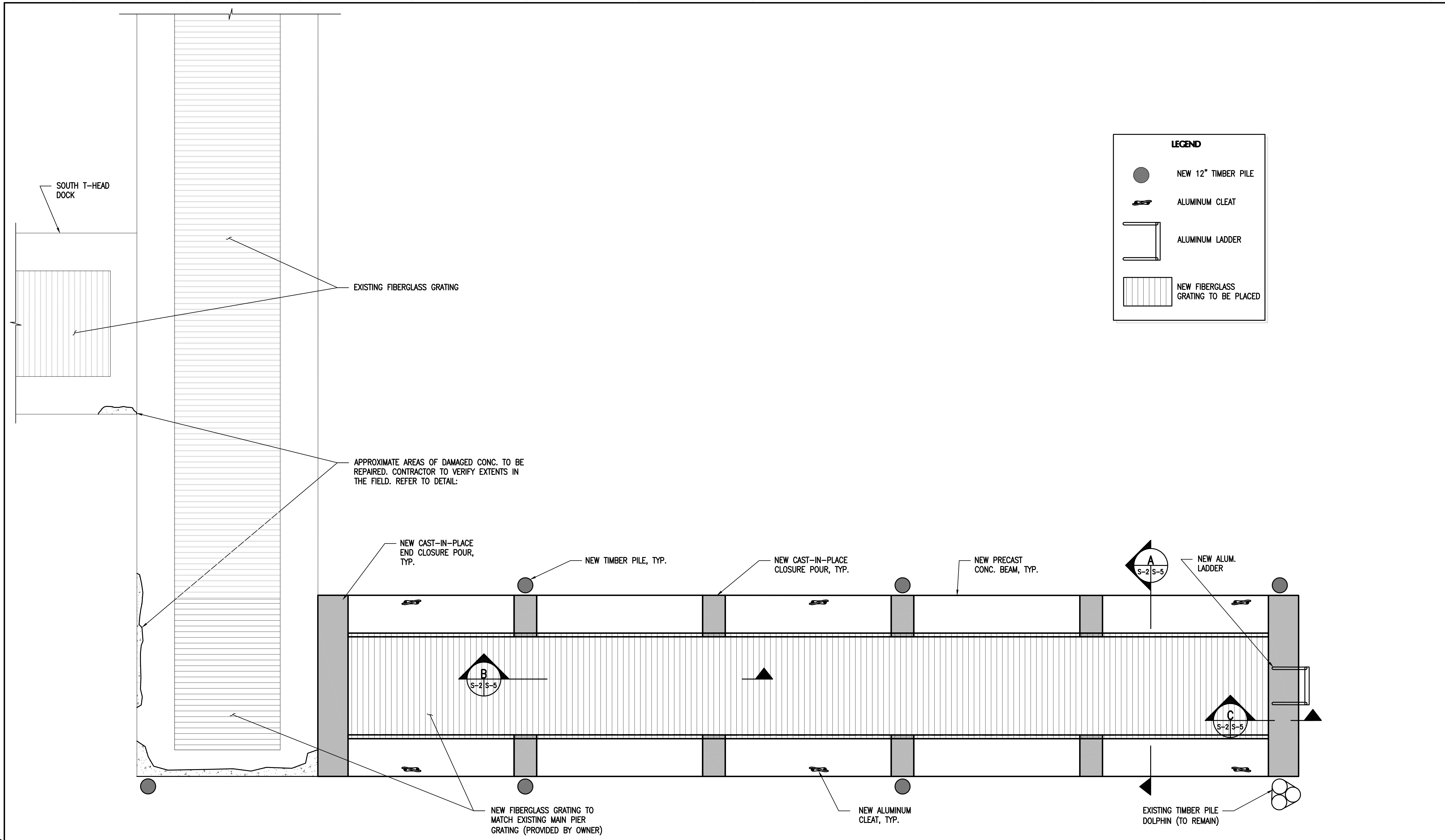


DRAWING NOT VALID
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T. K. BLANKENSHIP
FL. REG. 55910

SCALE: AS SHOWN
JOB: 220200.06
DATE: 7/6/06
DRAWN: CS

S-1
4 OF 17 SHEETS

FILE NAME: F:\Project\220200.00\Construction Drawings\Working\220200_Beam_114.dwg



LEGEND

	NEW 12" TIMBER PILE
	ALUMINUM CLEAT
	ALUMINUM LADDER
	NEW FIBERGLASS GRATING TO BE PLACED

REPAIR PLAN
SCALE: 1" = 3'

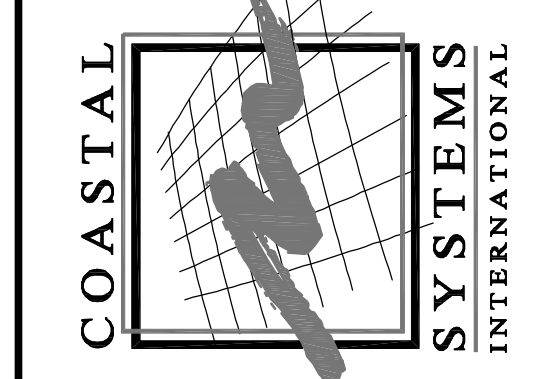
1.5 0 3
SCALE
1" = 3'-0"

NOTE:
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

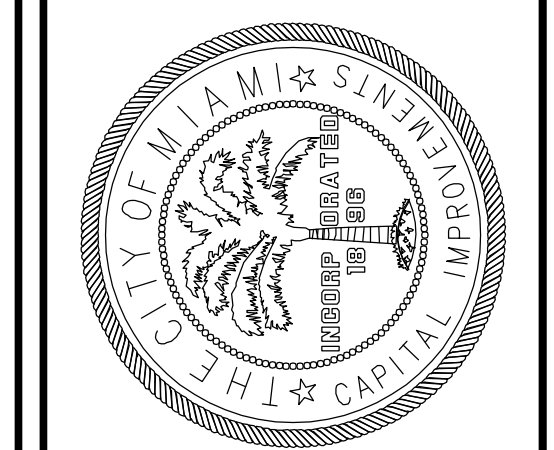
100% SUBMITTAL
PERMIT SET

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07/06/06	MCS	ISSUED FOR PERMIT

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THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS
DINNER KEY MARINA PIER 3 REPAIRS
REPAIR PLAN

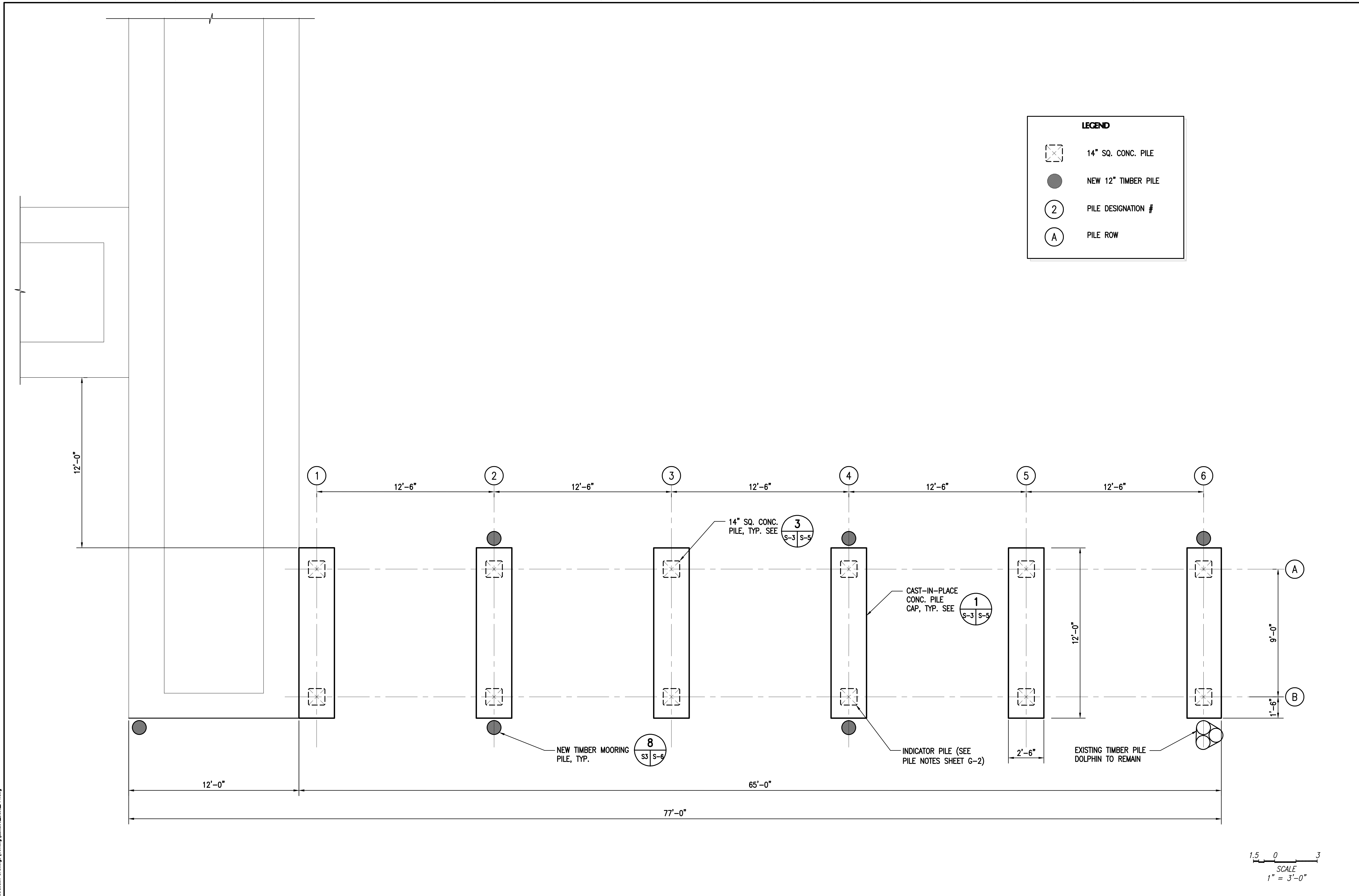


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SCALE: 1" = 3'
JOB: 220200.06
DATE: 7/6/06
DRAWN: MRR

S-2
5 OF 7 SHEETS

FILE NAME: F:\Project\220200.06\Construction Drawings\Working\220200_Beam_114.dwg



LEGEND

	14" SQ. CONC. PILE
	NEW 12" TIMBER PILE
	PILE DESIGNATION #
	PILE ROW

PILE & PILE CAP PLAN
SCALE: 1" = 3'

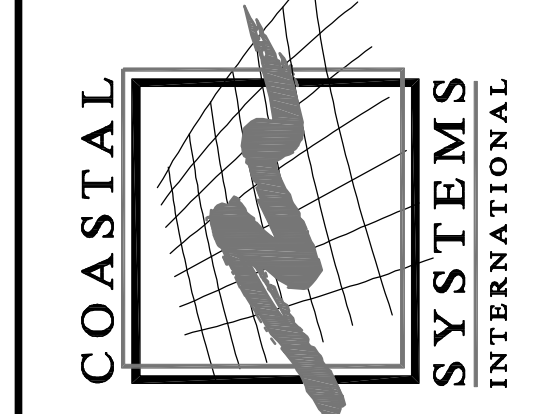
SCALE
1" = 3'-0"

NOTE:
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

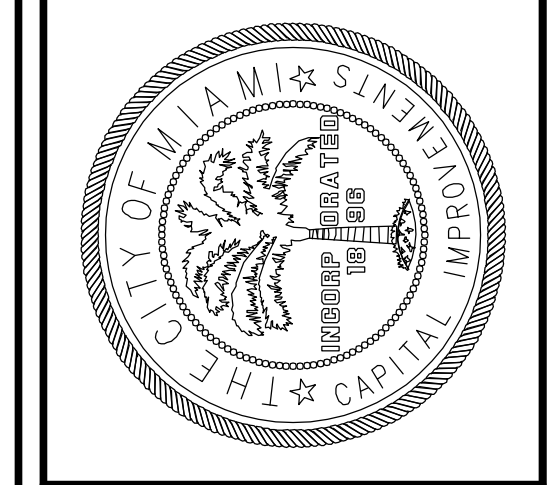
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THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS
DINNER KEY MARINA PIER 3 REPAIRS
PILE & PILE CAP PLAN

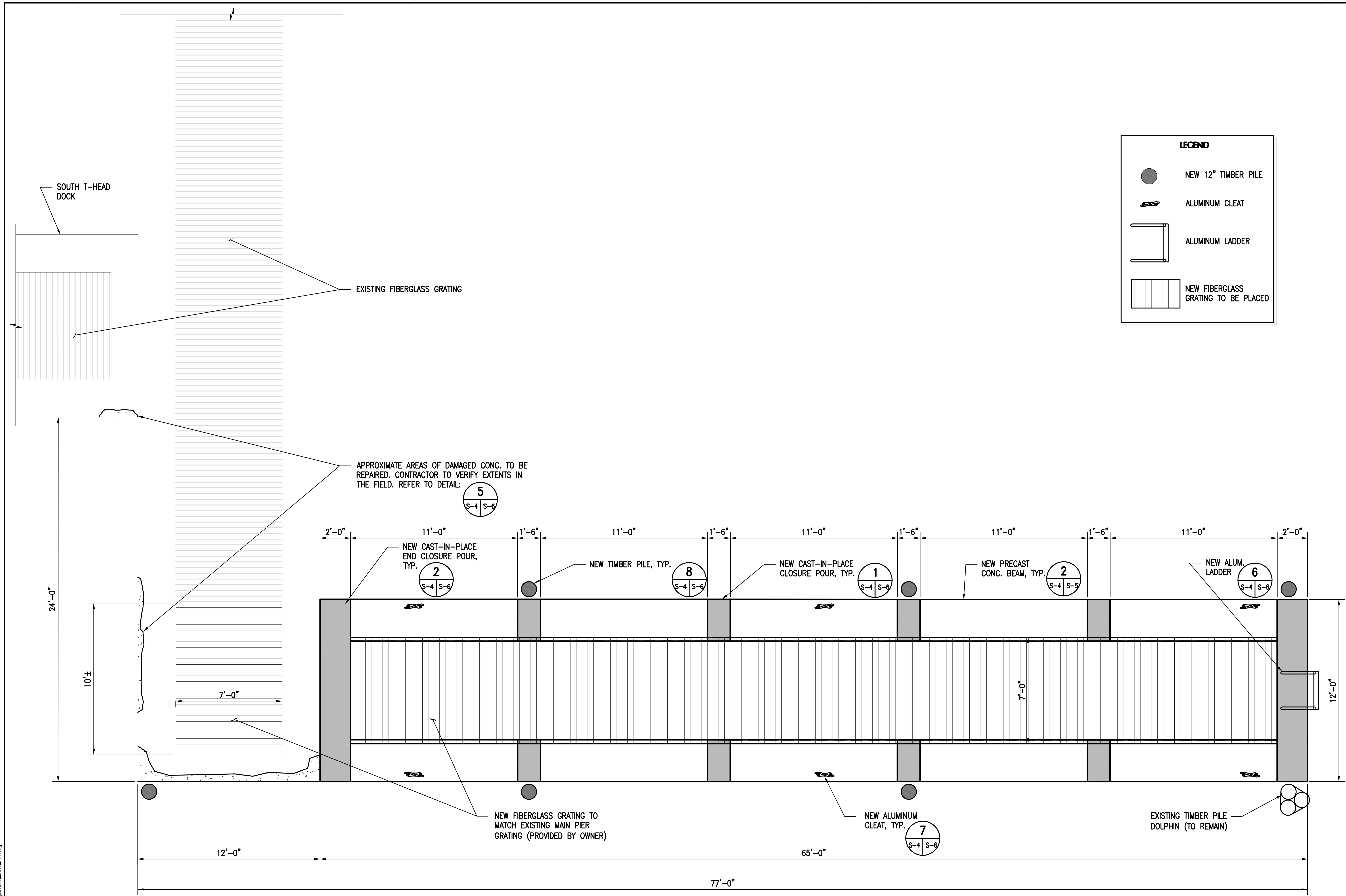


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FL. REG. 59910

SCALE: AS SHOWN
JOB: 220200.06
DATE: 7/6/06
DRAWN: MRR

S-3
6 OF 7 SHEETS

FILE NAME: F:\Project\220200.00\Construction Drawings\Working\220200_Beam_11.dwg



LEGEND

- NEW 12" TIMBER PILE
- ALUMINUM CLEAT
- ALUMINUM LADDER
- NEW FIBERGLASS GRATING TO BE PLACED

BEAM & DECKING PLAN
SCALE: 1" = 3'

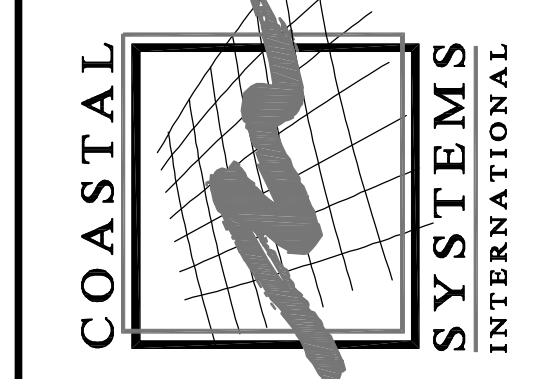
1.5 0 3
SCALE
1" = 3'-0"

NOTE:
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

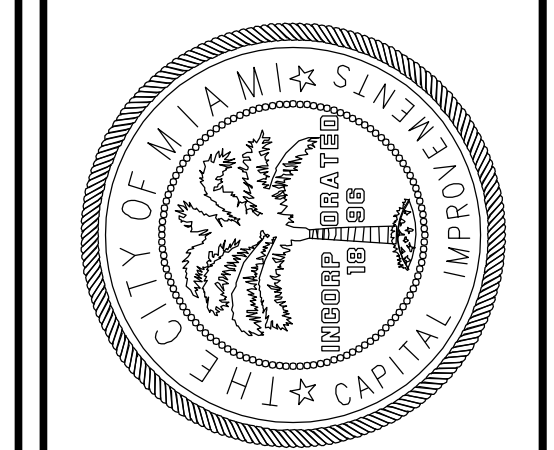
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PERMIT SET

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07/06/06	MRS	ISSUED FOR PERMIT

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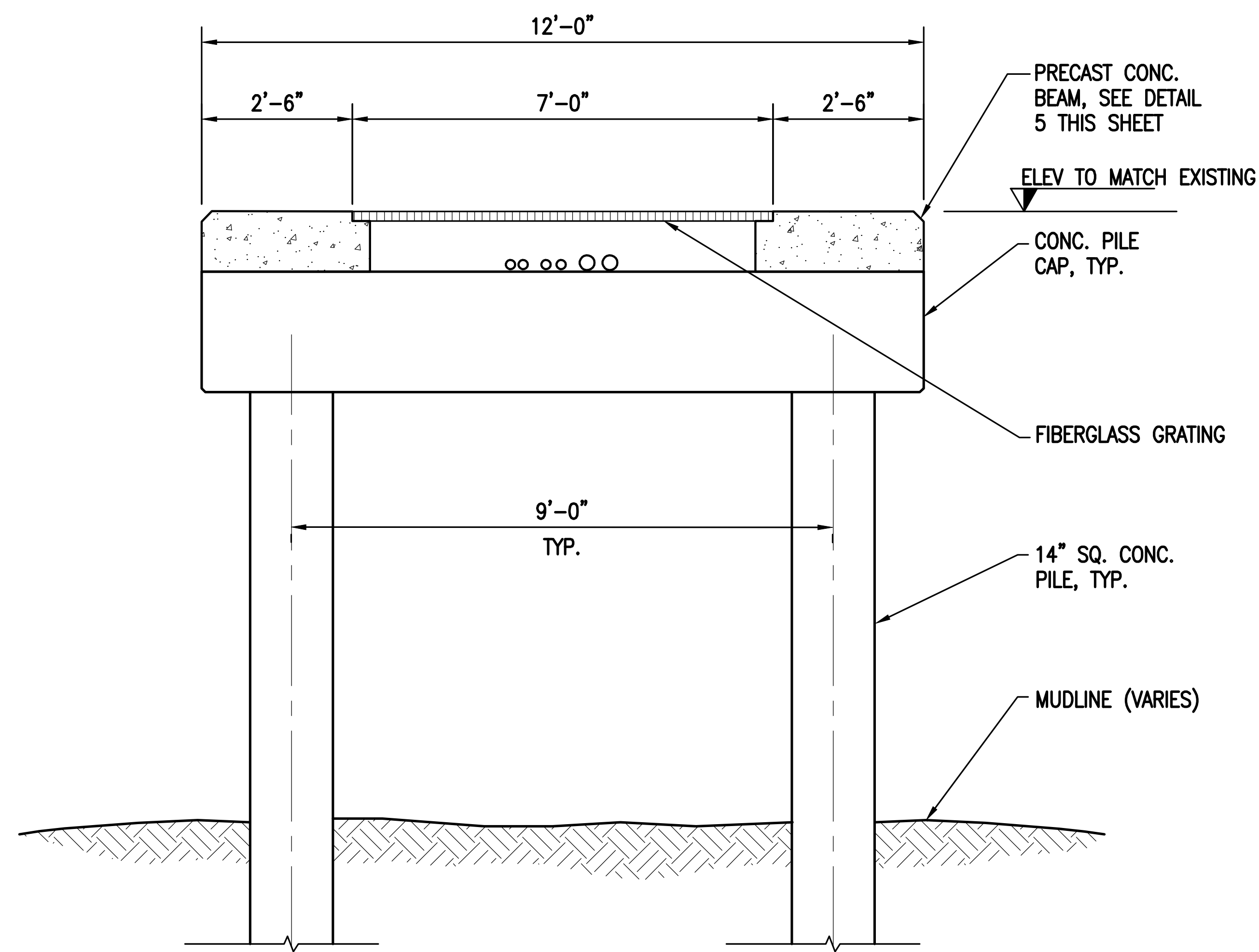
THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS
DINNER KEY MARINA PIER 3 REPAIRS
BEAM & DECKING PLAN



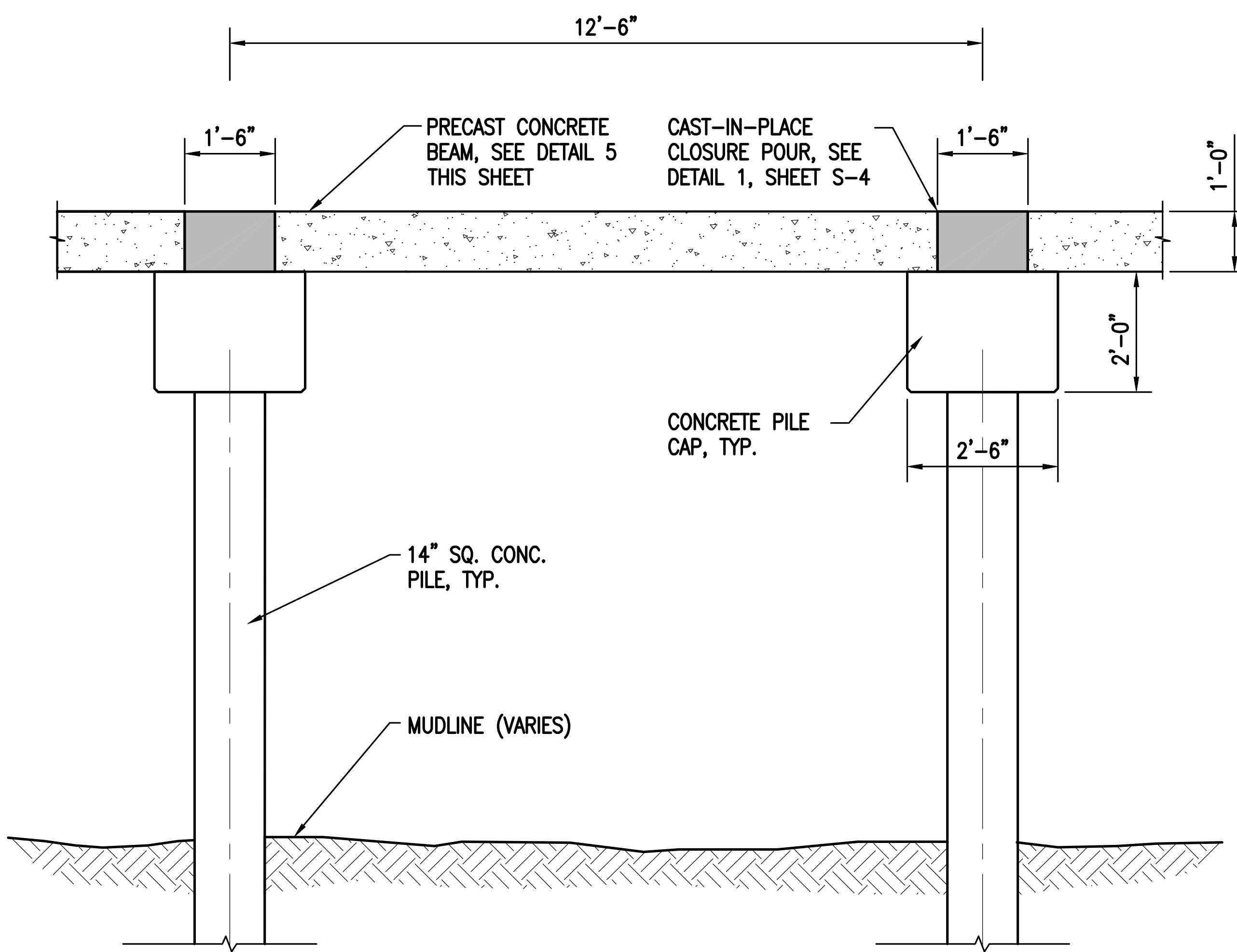
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SCALE: 1" = 3'
JOB: 220200.06
DATE: 7/6/06
DRAWN: MRR

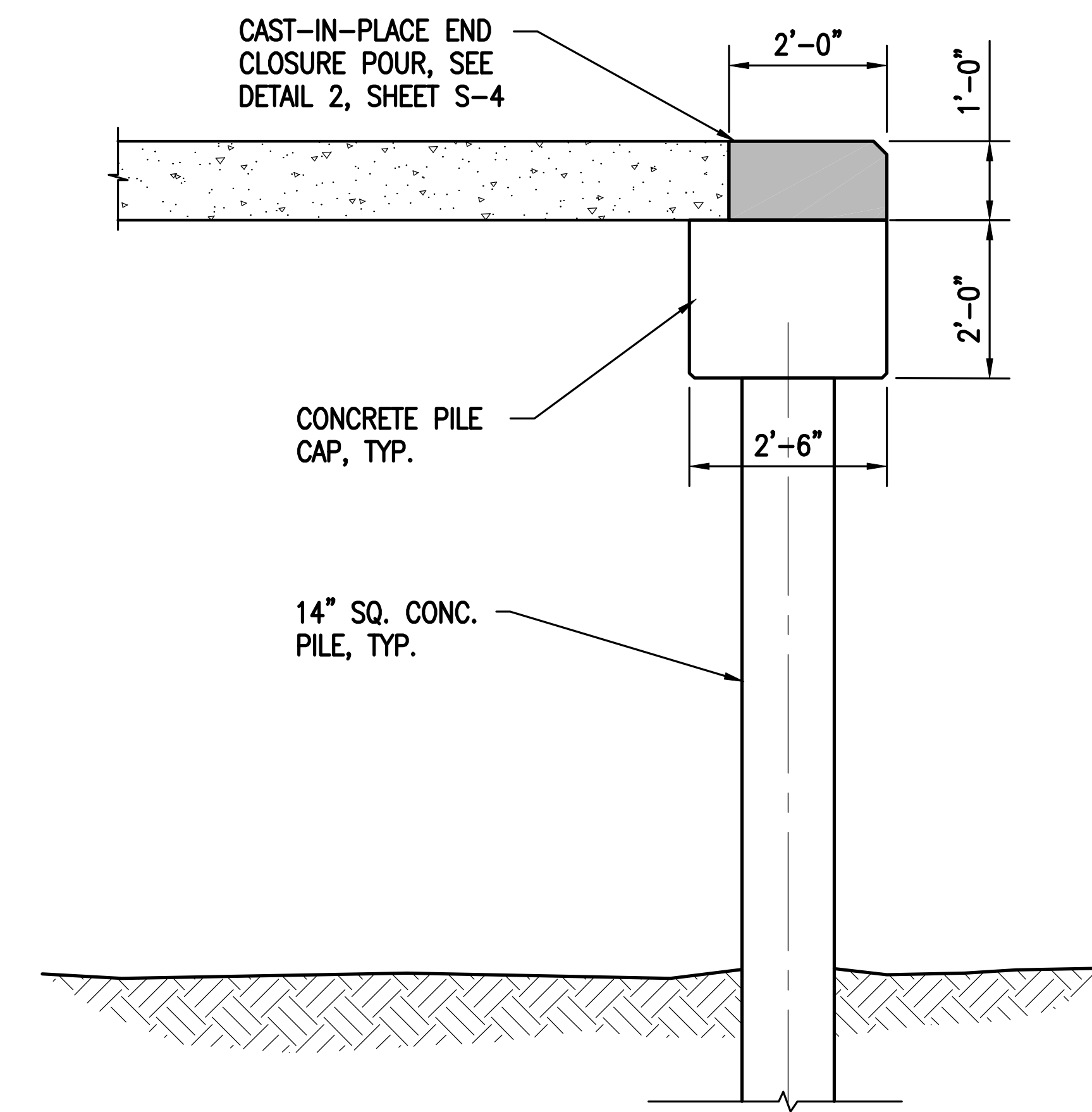
S-4
7 OF 7 SHEETS



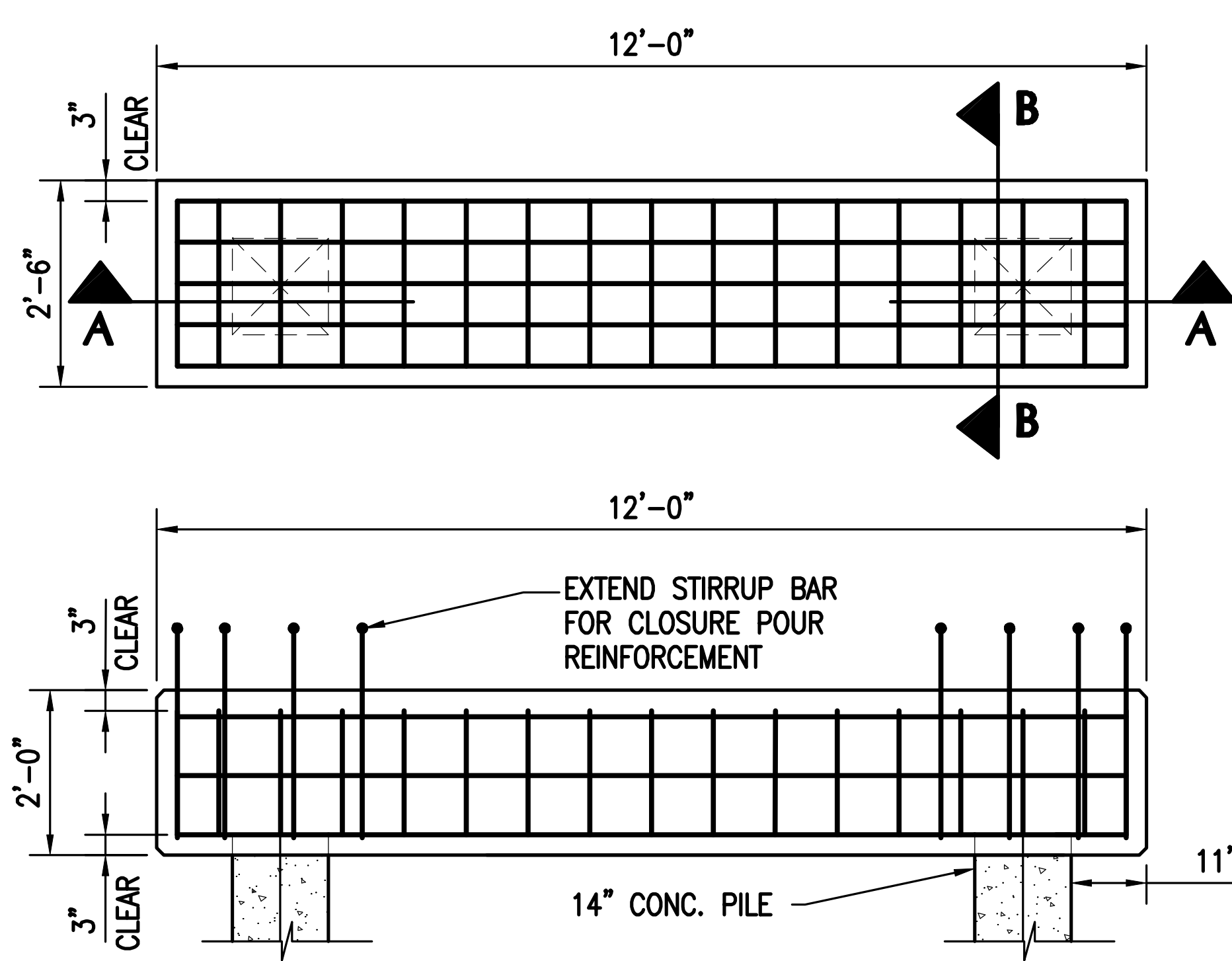
TYPICAL DOCK SECTION
SCALE: 1" = 2'
A
S-2 S-5



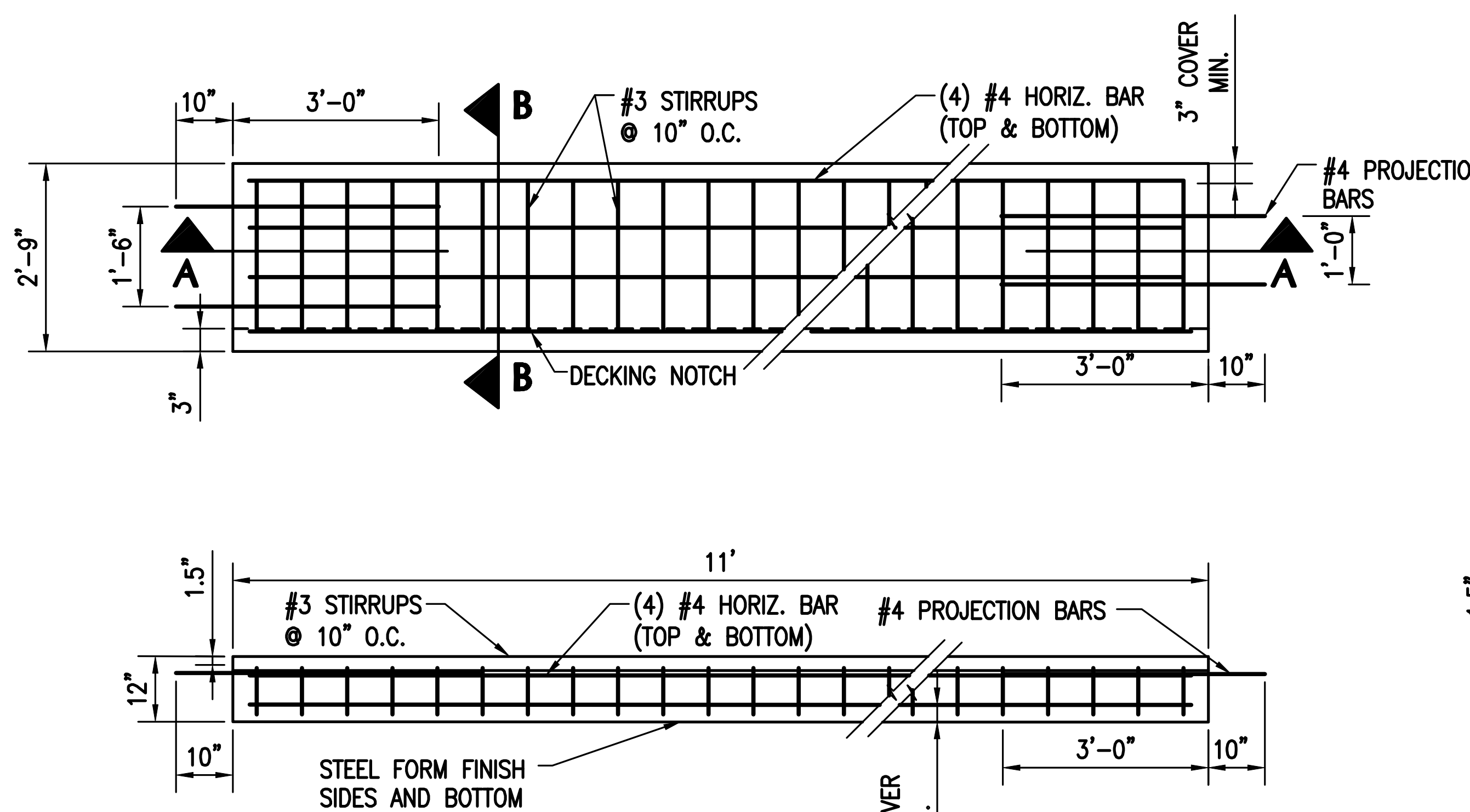
TYPICAL DOCK ELEVATION
SCALE: 1" = 2'
B
S-2 S-5



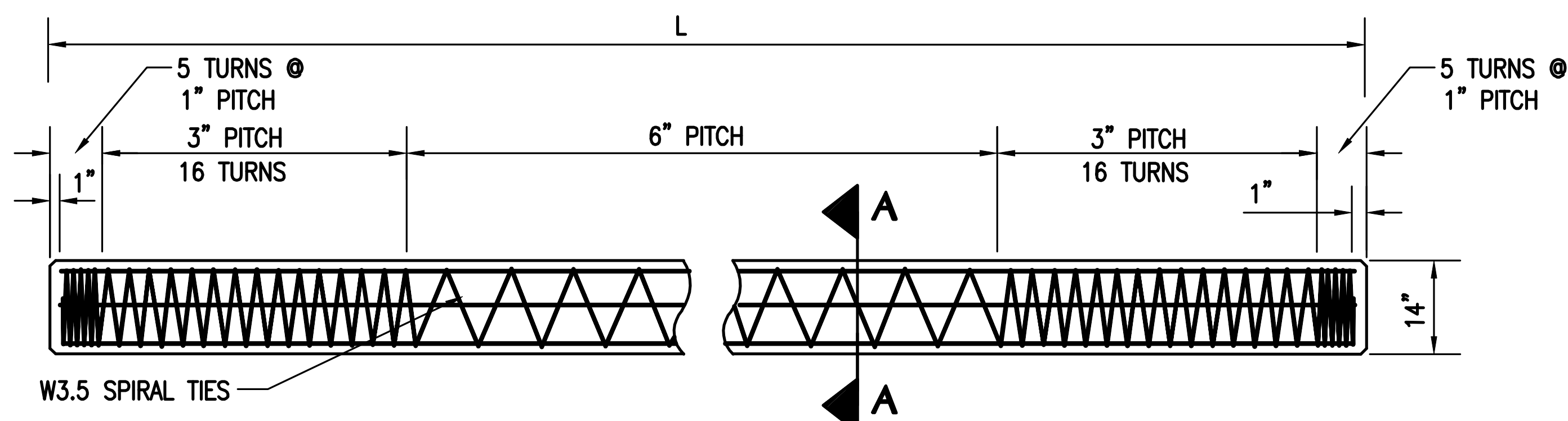
DOCK END ELEVATION
SCALE: 1" = 2'
C
S-2 S-5



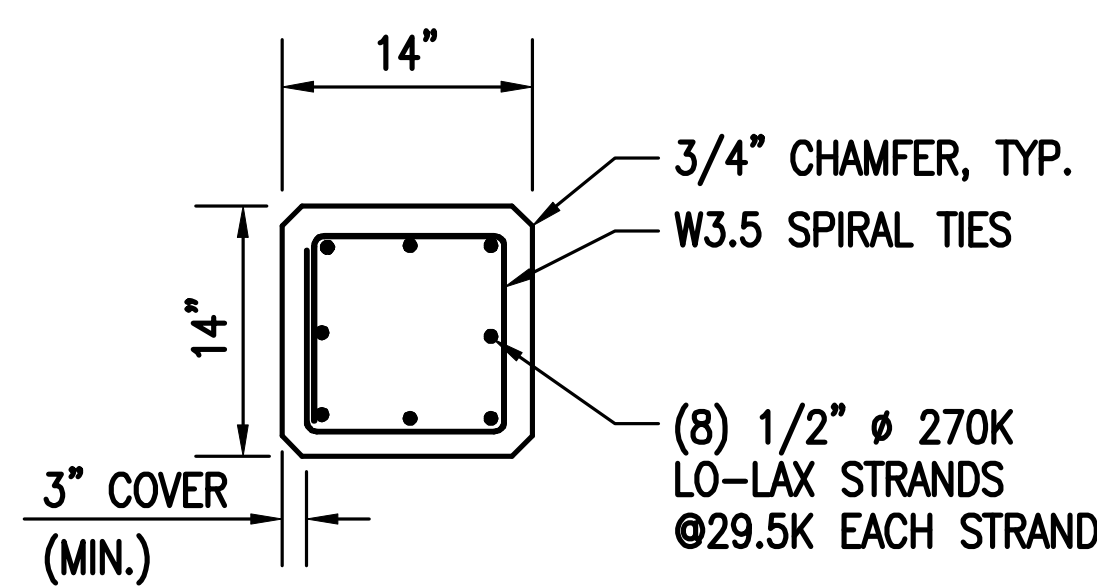
PILE CAP DETAILS
SCALE: 1" = 2'
1
S-3 S-5



BEAM DETAILS
SCALE 1" = 2'
2
S-4 S-5



14" SQ. CONCRETE PILE DETAILS
SCALE 1" = 2'
3
S-3 S-5



A-A PILE SECTION

CONCRETE PILE NOTES:

- REFER TO SHEET G-2 FOR PRESTRESSED PILING NOTES.
- ALLOWABLE PILE CAPACITY: 25 TONS
- LENGTH = 35 FEET, TO BE CONFIRMED BY INDICATOR PILE.

BEAM NOTES:

- REFER TO SHEET G-2 FOR CONCRETE NOTES.
- TRIM PROJECTION BARS AS REQUIRED DURING INSTALLATION AT INTERMEDIATE CLOSURE POURS TO ALLOW FOR PROPER CLEARANCE.
- ALL REINFORCING STEEL TO BE MMFX MICROCOMPOSITE STEEL.
- PROVIDE 3/4" INCH CHAMFER ON OUTSIDE UPPER EDGE(S) OF BEAMS/SLABS. (SEE DETAILS THIS SHEET)

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

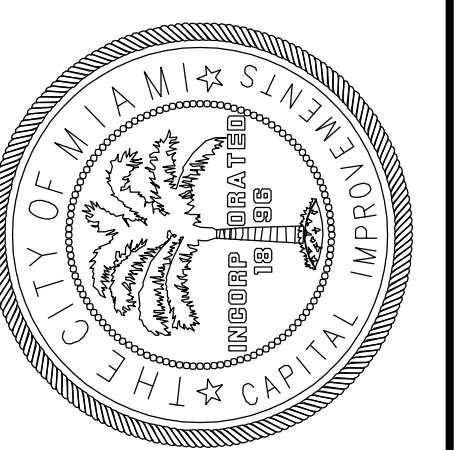
100% SUBMITTAL PERMIT SET

DATE	REV	DESCRIPTION
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07/08/08	B	ISSUED FOR PERMIT

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THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS
DINNER KEY MARINA PIER 3 REPAIRS
SECTIONS AND DETAILS I

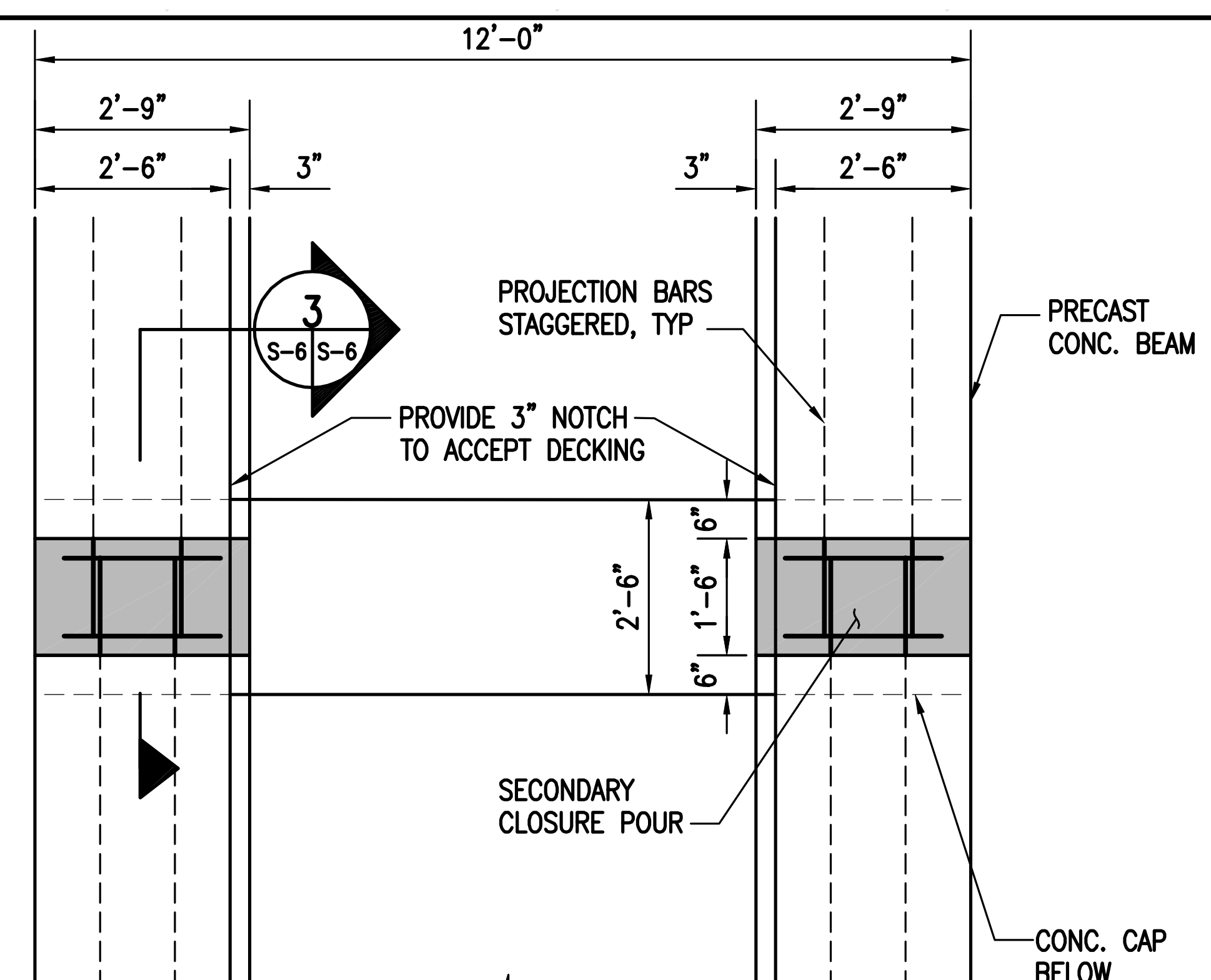


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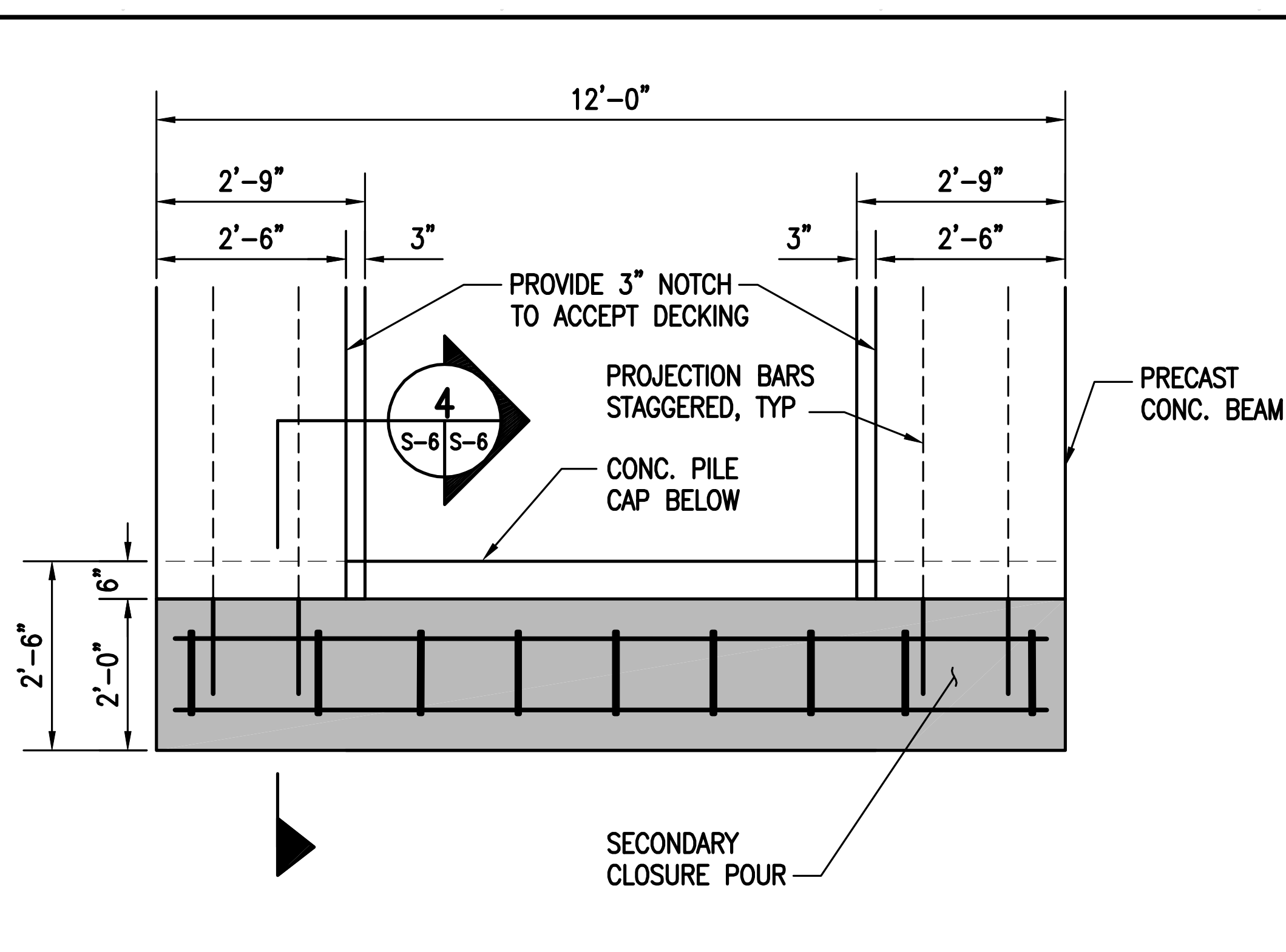
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JOB: 220200.06
DATE: 7/6/06
DRAWN: GS

S-5
8 OF 7 SHEETS

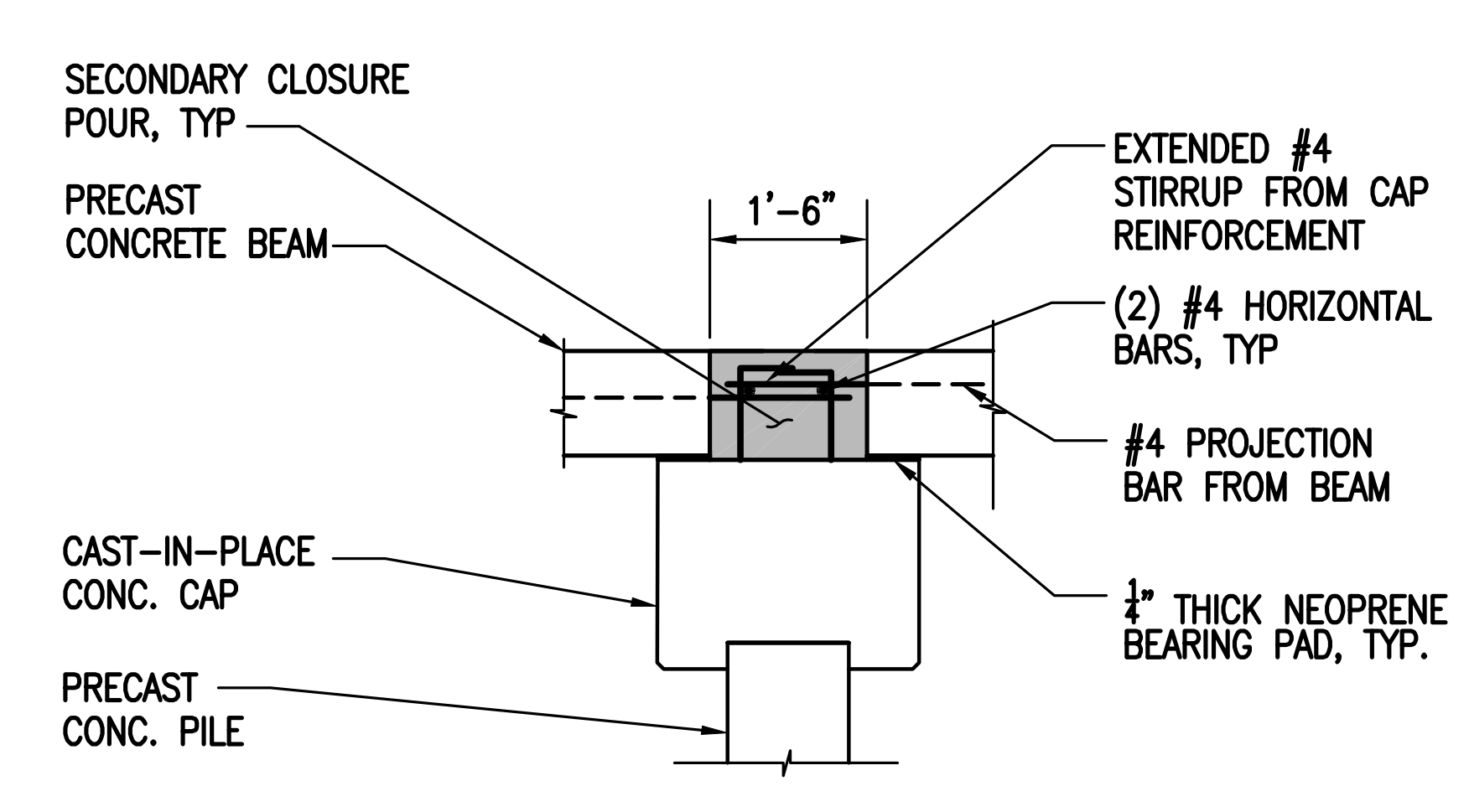
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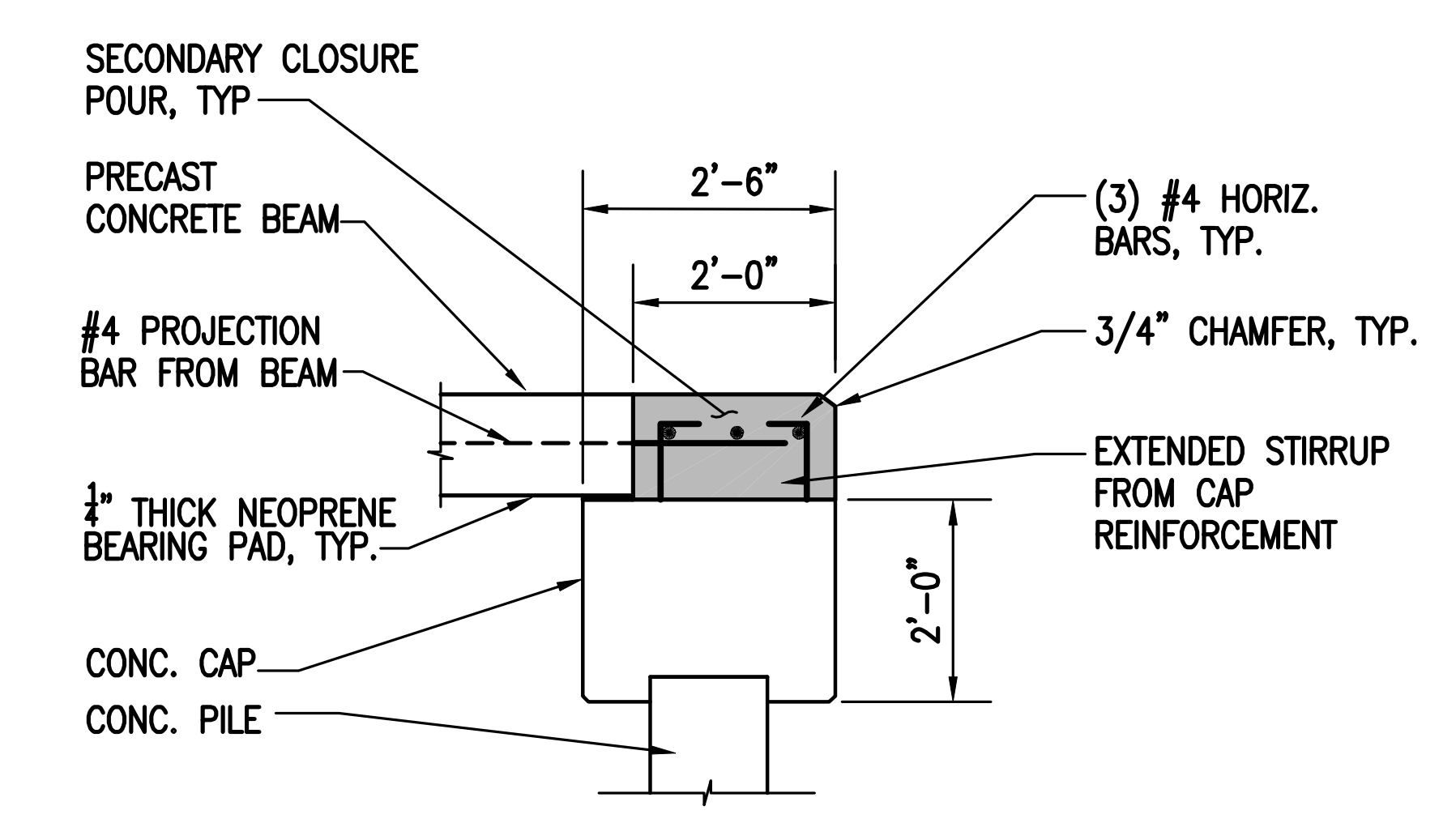
TYPICAL CAST-IN-PLACE CLOSURE POUR 1
SCALE 1" = 2"



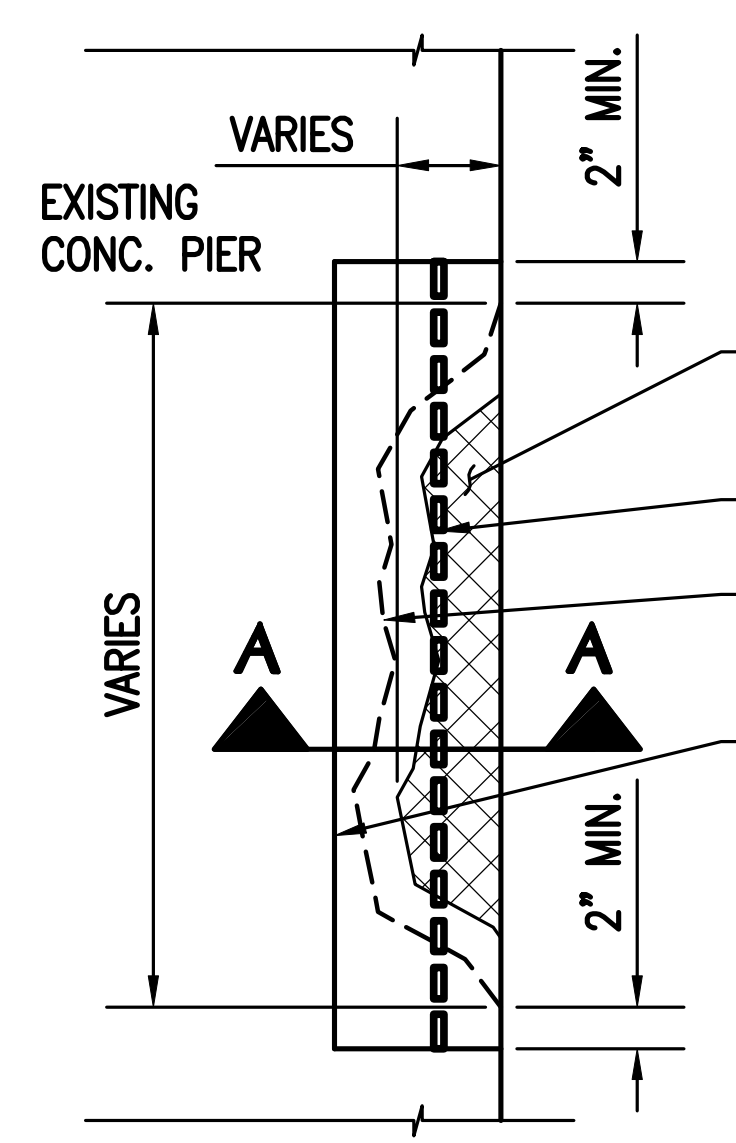
TYPICAL END CAST-IN-PLACE CLOSURE POUR 2
SCALE 1" = 2"



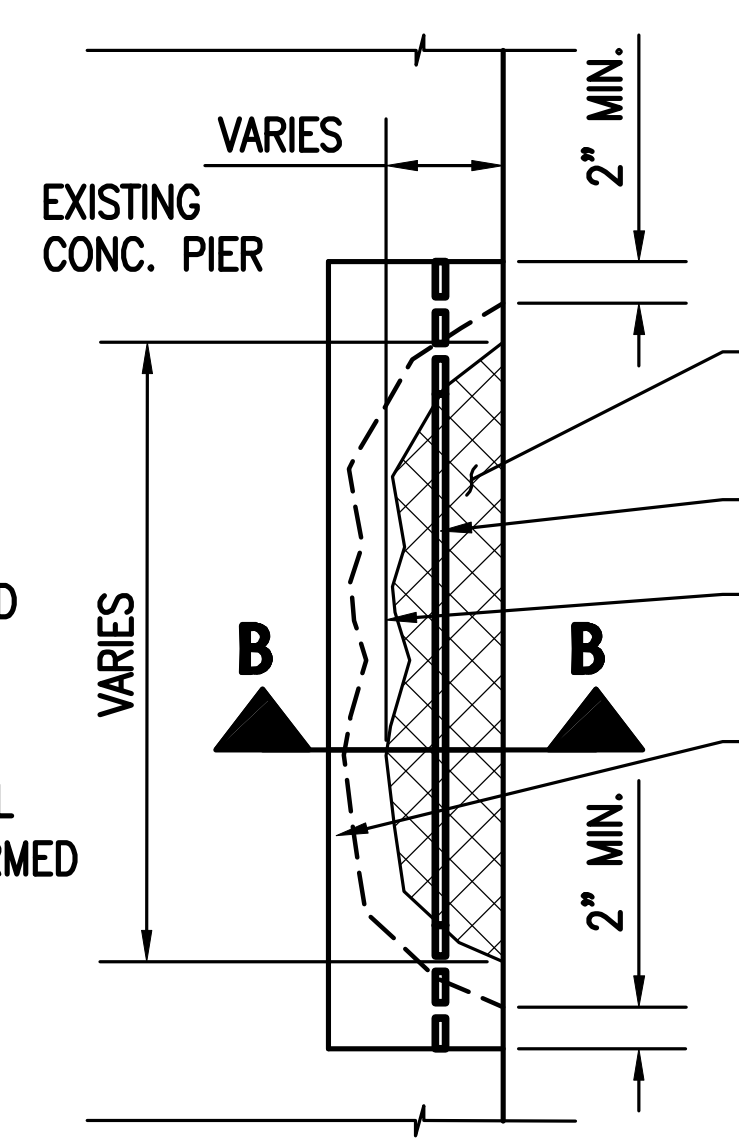
INTERMEDIATE CLOSURE POUR SECTION 3
SCALE 1" = 2"



END CLOSURE POUR SECTION 4
SCALE 1" = 2"



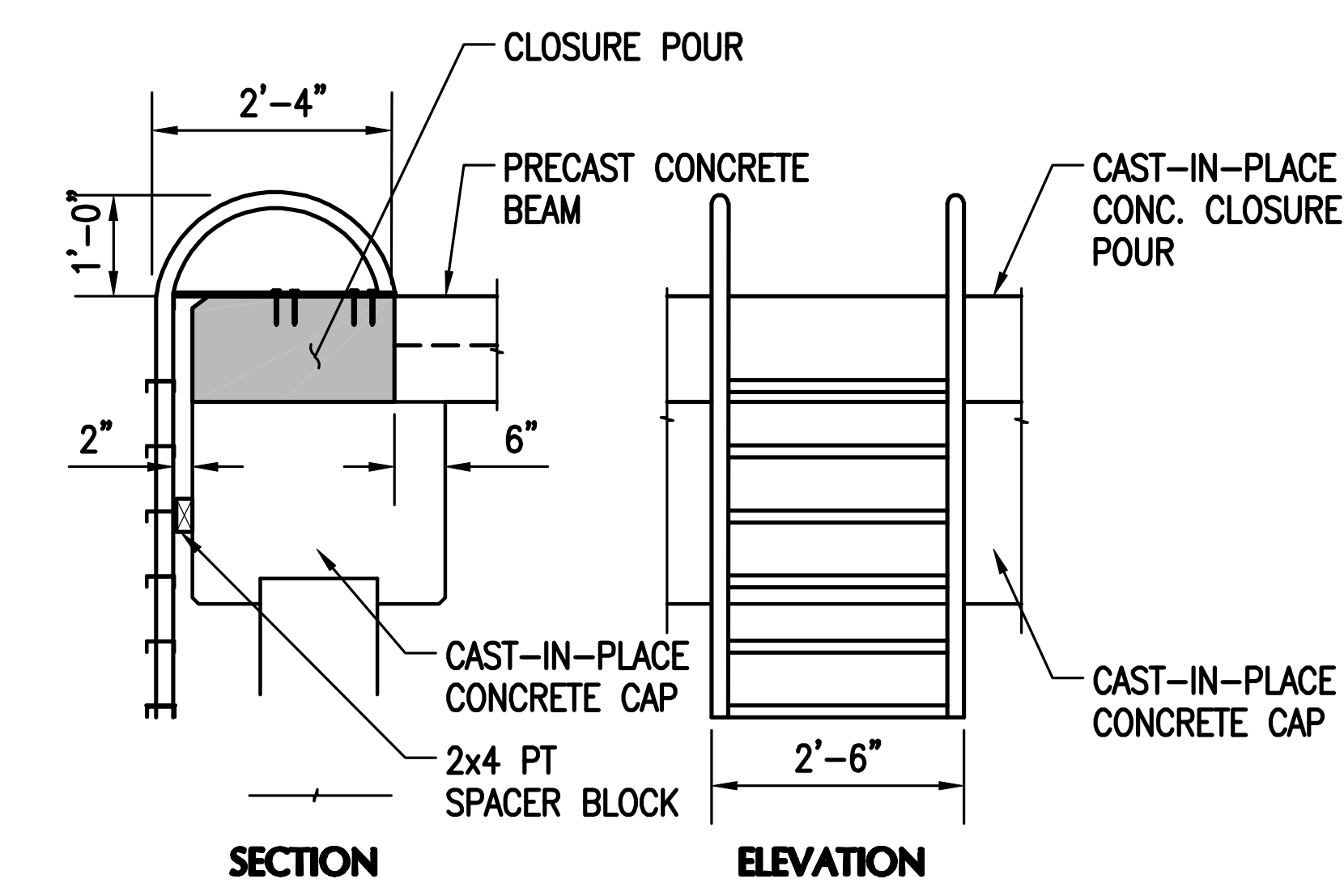
MINOR SPALL DETAIL



SEVERE SPALL DETAIL

CONCRETE SPALL REPAIR NOTES:

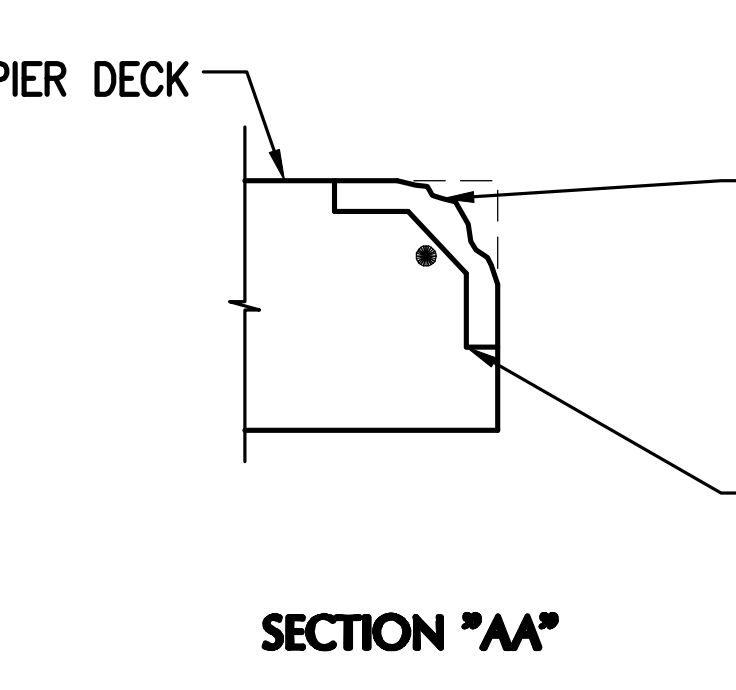
- REPAIR CONCRETE SPALL AREAS INDICATED ON SHEET S-1.
- CONTRACTOR TO NOTIFY ENGINEER OF ADDITIONAL DAMAGE AREAS.
- REMOVE ALL UNSOUND CONCRETE AROUND SPALL AREA BY CHIPPING WITH PICKS OR LIGHTWEIGHT PNEUMATIC IMPACT TOOLS TO EXPOSE SOUND CONCRETE FREE OF LOOSE AND UNSOUND MATERIALS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO SOUND CONCRETE BEYOND THE LIMITS OF THE DEMOLITION AND TO AVOID DISLODGING OR DAMAGING EXPOSED, EXISTING REINFORCING STEEL.
- SAW CUT EDGES OF REPAIR AREA TO A DEPTH OF AT LEAST 3/8" TO PROVIDE SQUARE EDGE.
- CLEAN ALL EXPOSED SURFACES, INCLUDING THE EXPOSED SURFACES OF THE REINFORCEMENT BY ABRASIVE BLASTING. SURFACES SHALL BE FREE OF ANY BOND INHIBITING OR OTHER DELETERIOUS MATERIALS.
- APPLY THOROC HB2 REPAIR MORTAR, TWO-COMPONENT, POLYMER-MODIFIED, SHRINKAGE-COMPENSATED HIGH BUILD REPAIR MORTAR IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
- CURE REPAIR MATERIAL TO KEEP MOIST FOR 7 DAYS IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.



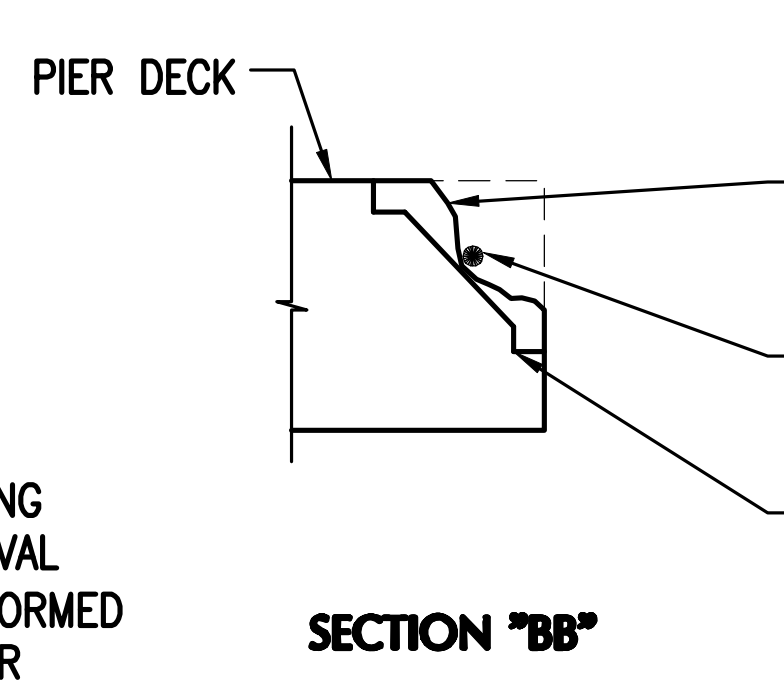
PREFABRICATED LADDER DETAILS 6
SCALE 1" = 2"

LADDER NOTES:

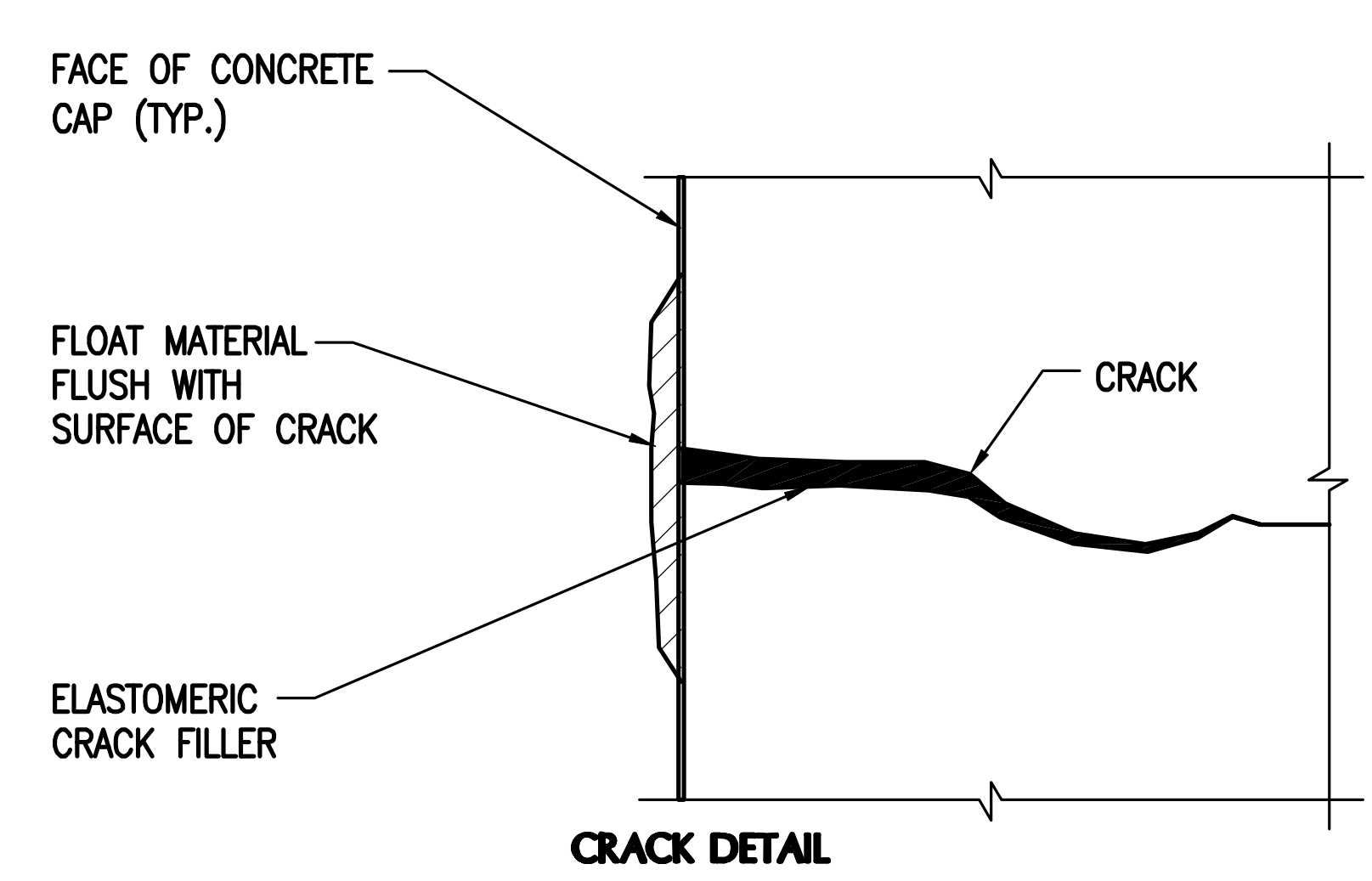
- CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR ENGINEER'S APPROVAL PRIOR TO MANUFACTURING.
- ALL CONNECTIONS TO BE WELDED.
- INSTALL LADDERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSTALL WITH 1/2" #316SS FASTENERS, EMBED 6" MIN. INTO CONCRETE.
- INSTALL 2x4 PT SPACER BLOCK (OR EQUIVALENT) BETWEEN CONCRETE CAP AND LADDER.



SECTION "AA"



SECTION "BB"



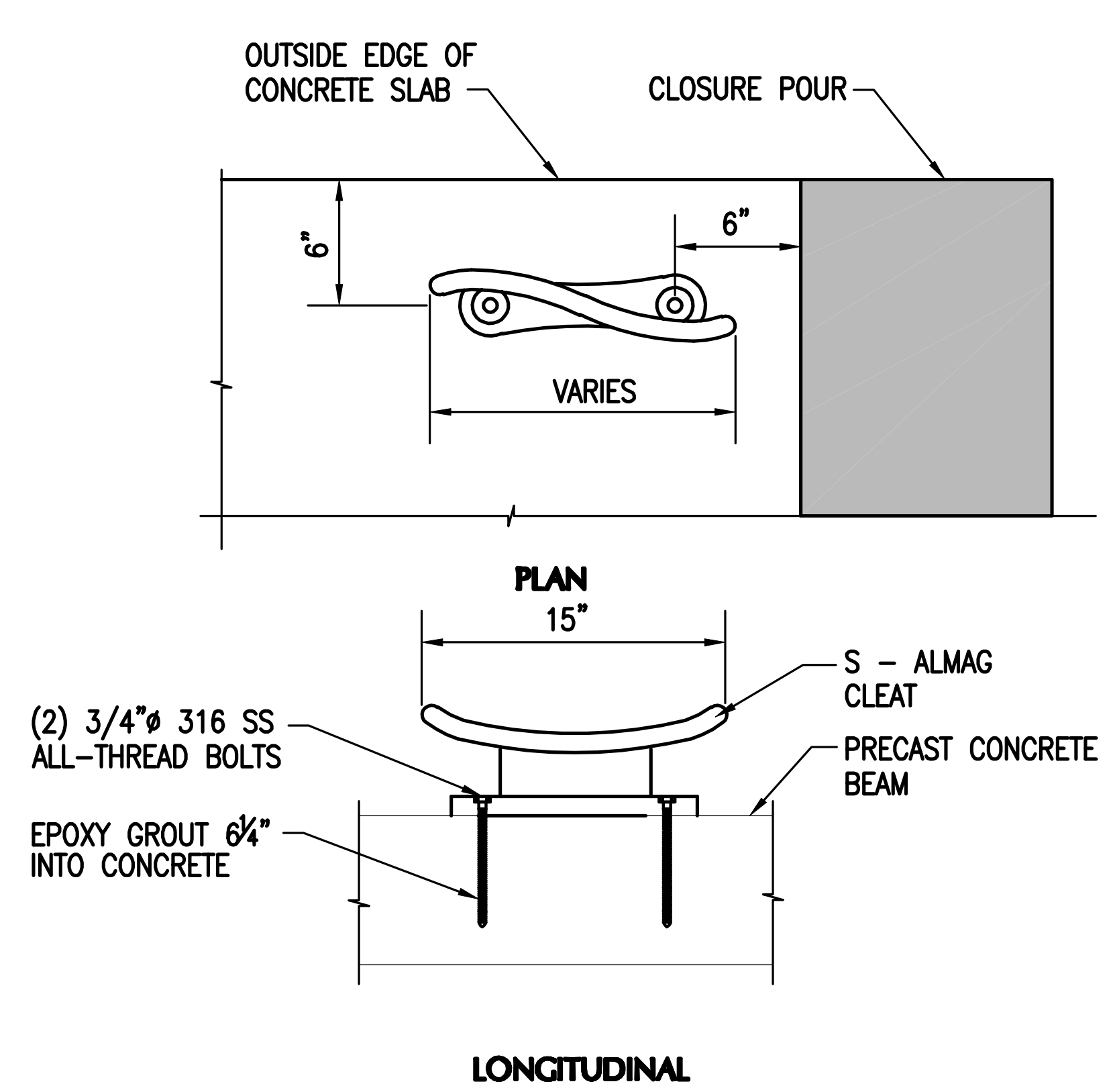
TYPICAL CONCRETE REPAIR DETAILS 5
SCALE 1" = 2"

CONCRETE CRACK REPAIR NOTES:

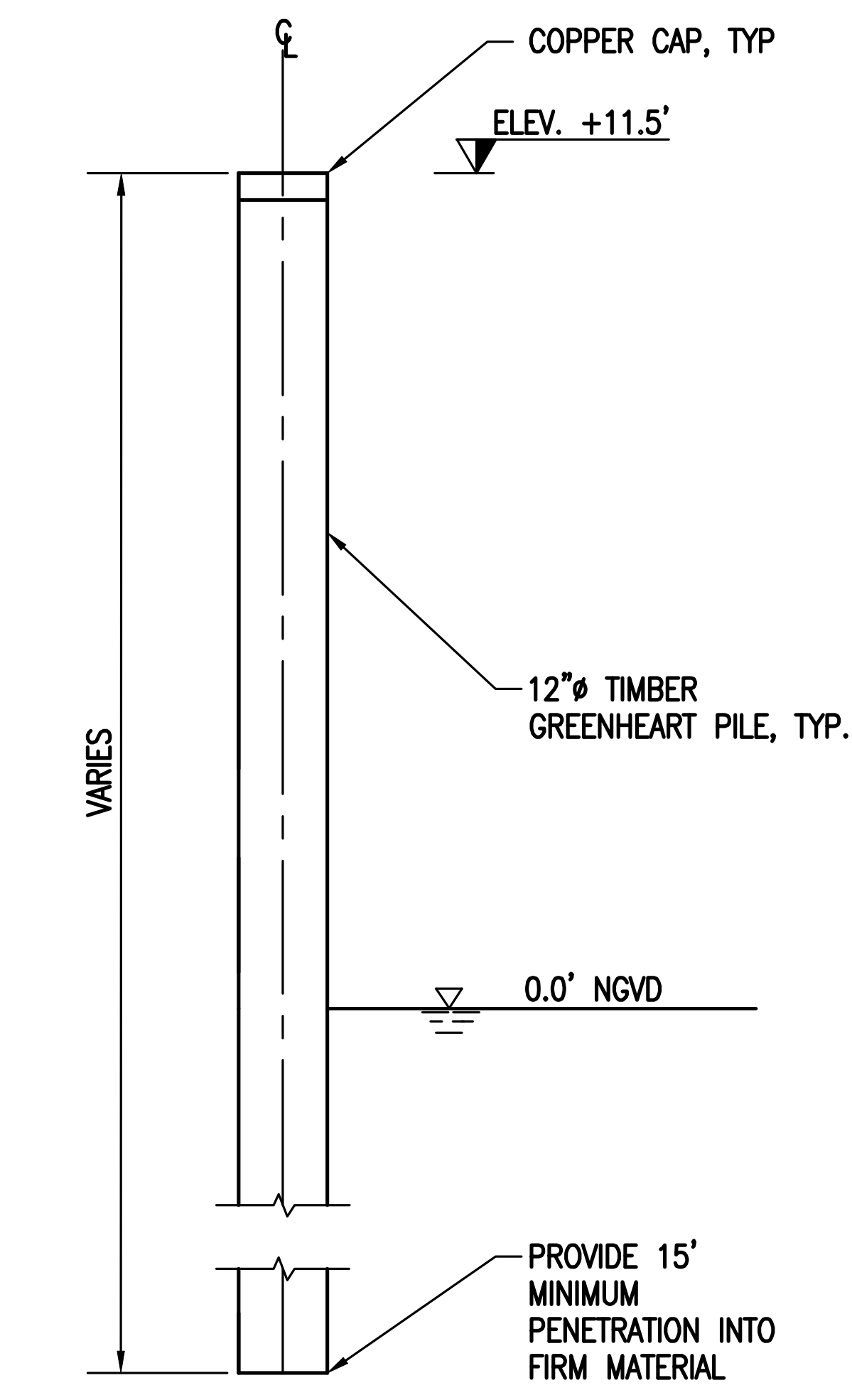
- REPAIR CRACKS GREATER THAN 1/32" IN AREAS INDICATED ON SHEET S-1.
- CRACKS SHALL BE CLEANED WITH WATER BLASTING METHODS TO ENSURE THAT CRACKS ARE SOUND, CLEAN, DRY AND FREE OF DELETERIOUS MATERIALS.
- APPLY THOROLASTIC KNIFE GRADE TEXTURED ACRYLIC ELASTOMERIC CRACK FILLER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- SOURCE SUPPLIER: COASTAL CONSTRUCTION PRODUCTS Phone: 305-757-2121, OR WWW.CHEMREX.COM.

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

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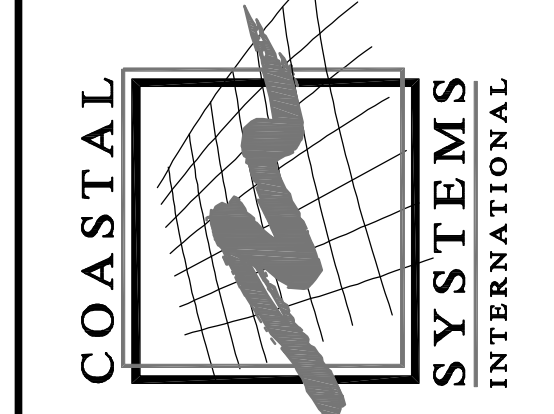
CLEAT CONNECTION DETAIL 7
SCALE 1" = 2"



TYPICAL FENDER PILE DETAIL 8
SCALE 1" = 4"

DATE	REV	DESCRIPTION
7/6/06	1	ISSUE FOR PERMIT
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7/6/06	3	ISSUE FOR PERMIT

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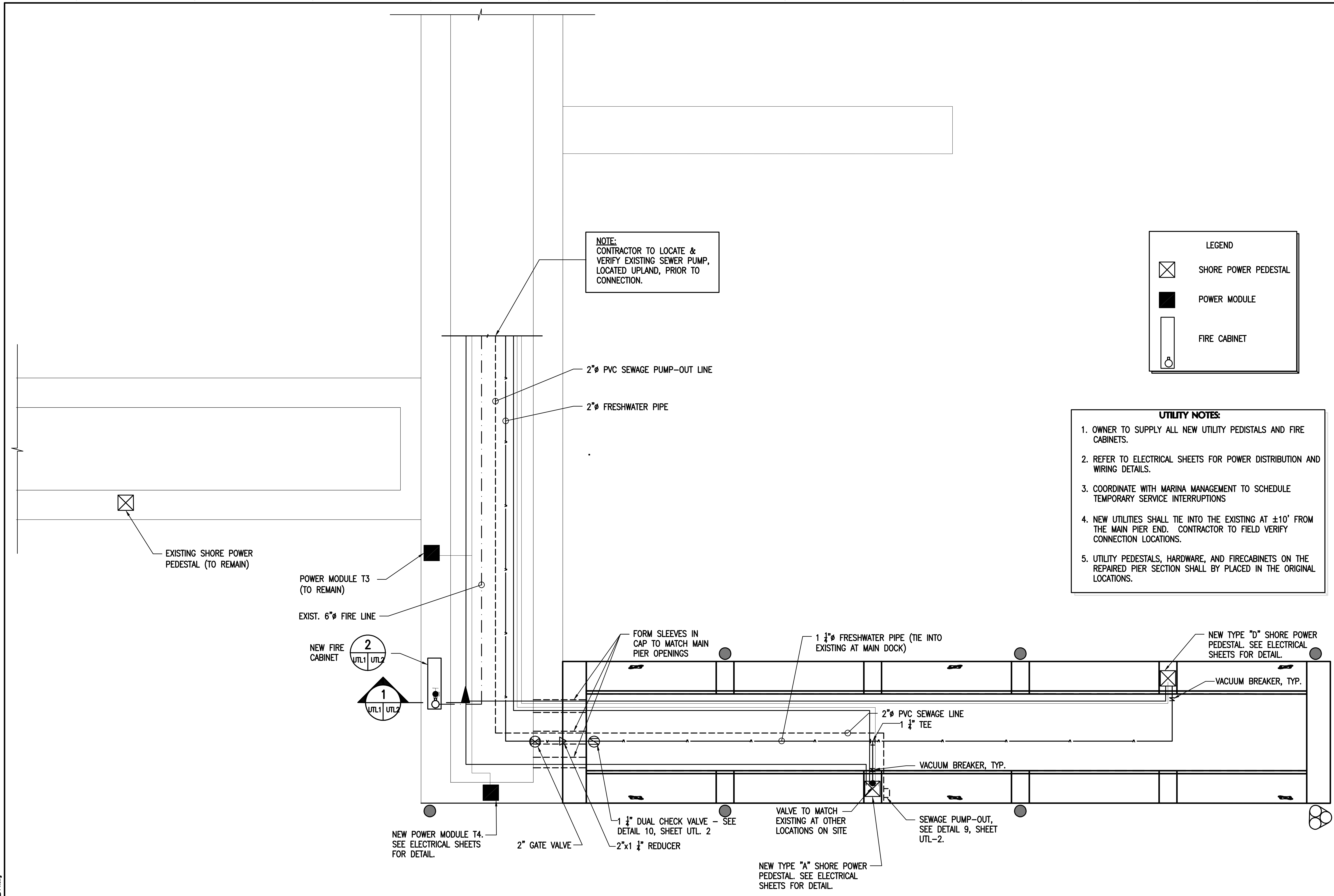
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SCALE: AS SHOWN
JOB: 220200.06
DATE: 7/6/06
DRAWN: GS

S-6
9 OF 7 SHEETS

FILE NAME: F:\Project\220200.06\Construction Drawings\Working\220200_Beam_114.dwg

FILE NAME: F:\Project\220200.06\Construction Drawings\Utility\220200_Bom_11.dwg



NOTE:
CONTRACTOR TO LOCATE & VERIFY EXISTING SEWER PUMP, LOCATED UPLAND, PRIOR TO CONNECTION.

LEGEND

- SHORE POWER PEDESTAL
- POWER MODULE
- FIRE CABINET

- UTILITY NOTES:**
- OWNER TO SUPPLY ALL NEW UTILITY PEDESTALS AND FIRE CABINETS.
 - REFER TO ELECTRICAL SHEETS FOR POWER DISTRIBUTION AND WIRING DETAILS.
 - COORDINATE WITH MARINA MANAGEMENT TO SCHEDULE TEMPORARY SERVICE INTERRUPTIONS.
 - NEW UTILITIES SHALL TIE INTO THE EXISTING AT ±10' FROM THE MAIN PIER END. CONTRACTOR TO FIELD VERIFY CONNECTION LOCATIONS.
 - UTILITY PEDESTALS, HARDWARE, AND FIRE CABINETS ON THE REPAIRED PIER SECTION SHALL BE PLACED IN THE ORIGINAL LOCATIONS.

UTILITY PLAN
SCALE: 1" = 4'

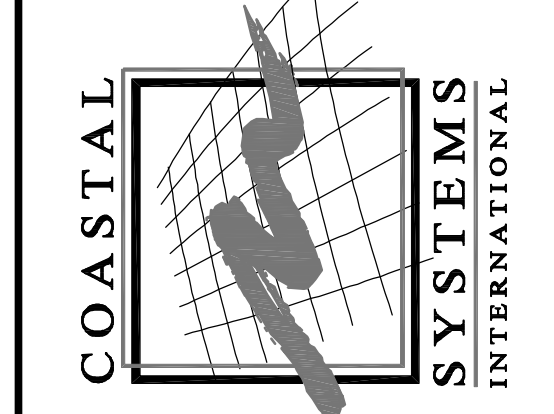
2 0 4
SCALE
1" = 4'-0"

NOTE:
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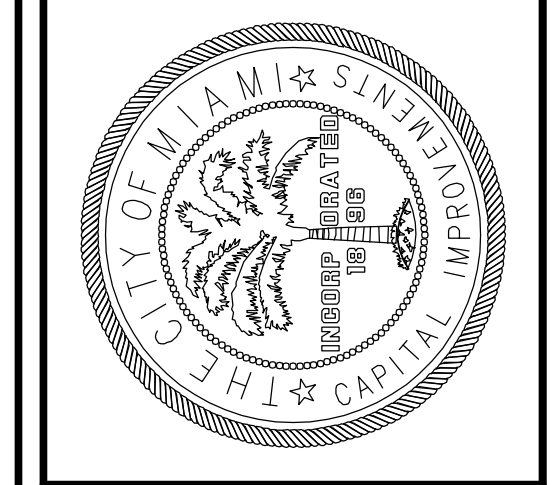
100% SUBMITTAL
PERMIT SET

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7/6/06	MCS	ISSUED FOR PERMIT
07/06/06	MCS	ISSUED FOR PERMIT
09/2/06	MCS	REVISION PER RUC. DEPT

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THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS
DINNER KEY MARINA PIER 3 REPAIRS
UTILITY PLAN

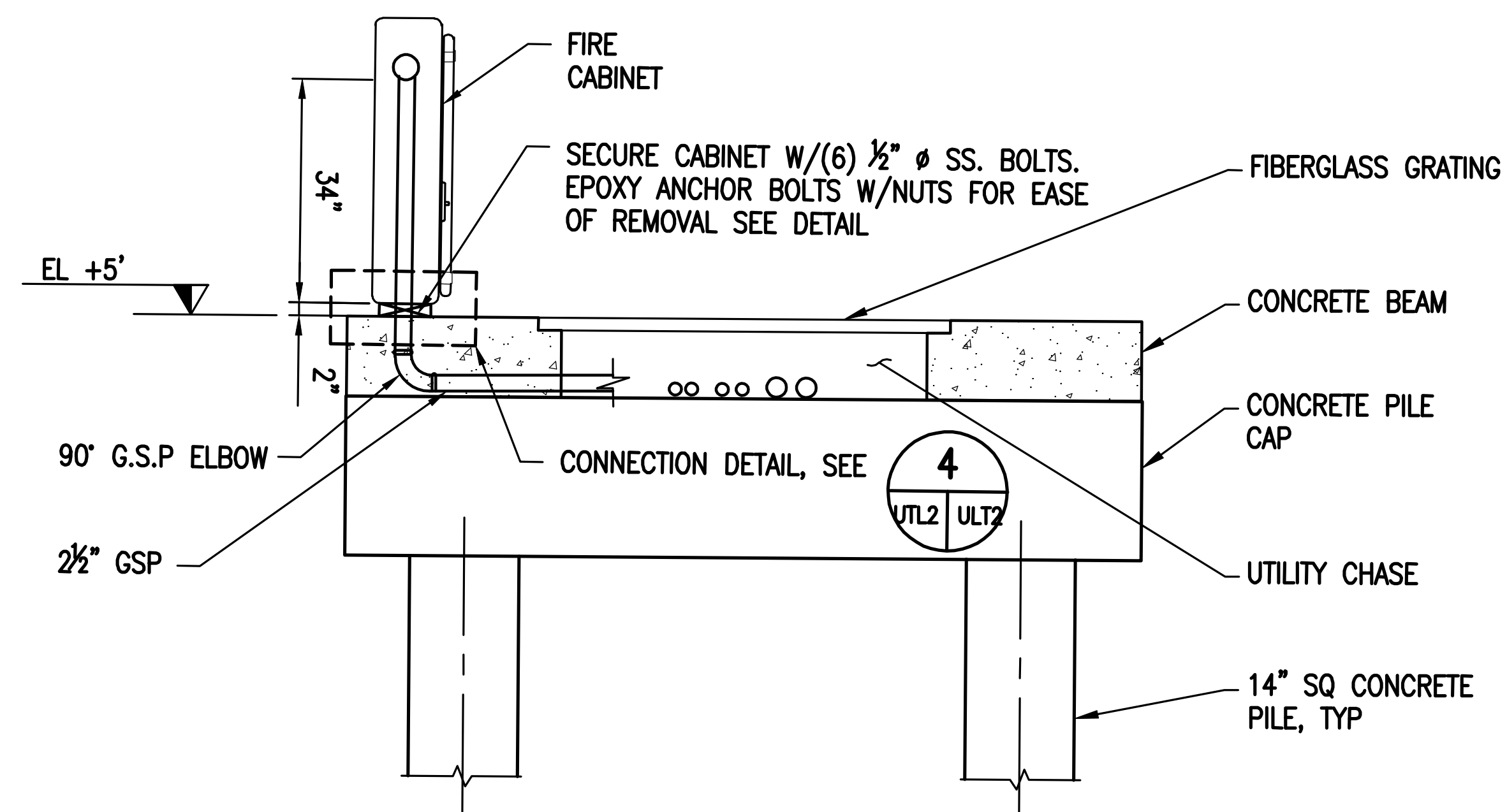


DRAWING NOT VALID WITHOUT EMBOSSED SEAL

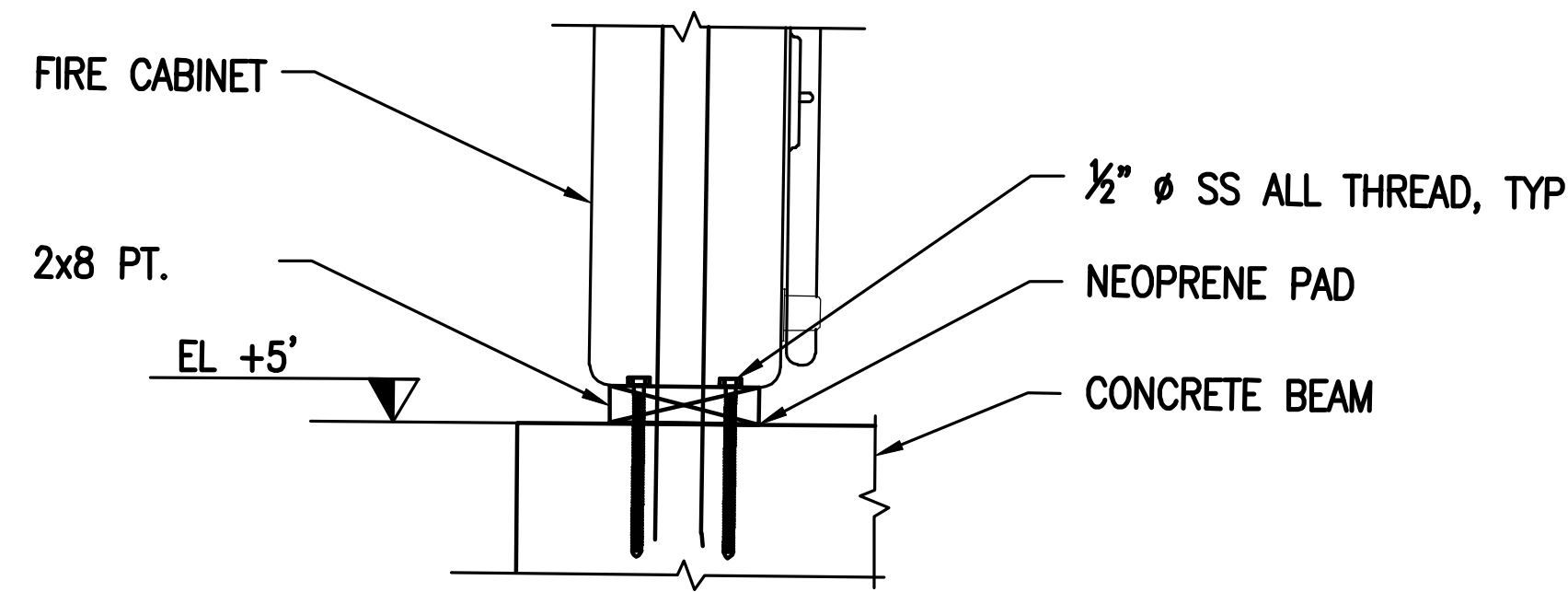
T. N. BLANKENSHIP
FL. REG. 59910

SCALE: 1" = 3'
JOB: 220200.06
DATE: 7/6/06
DRAWN: MRR

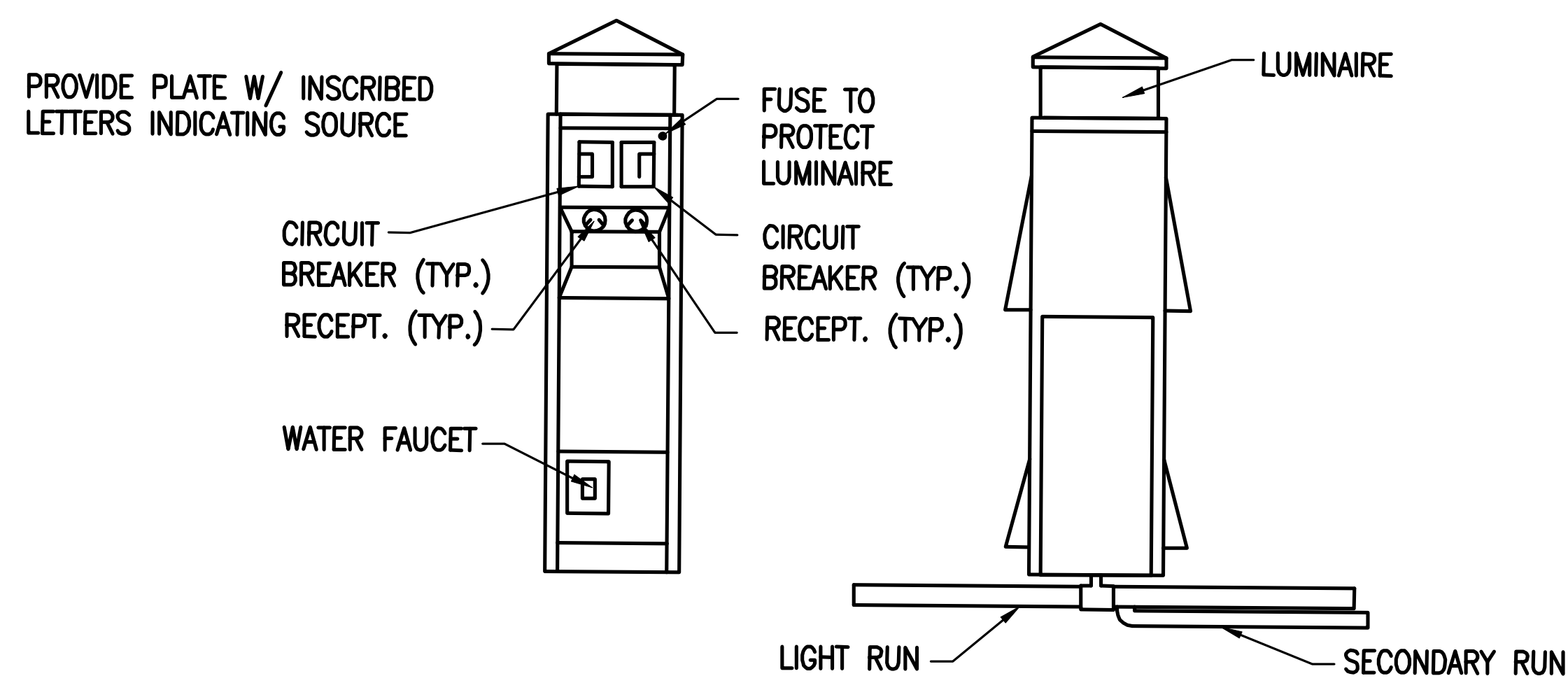
UTL-1
10 OF 17 SHEETS



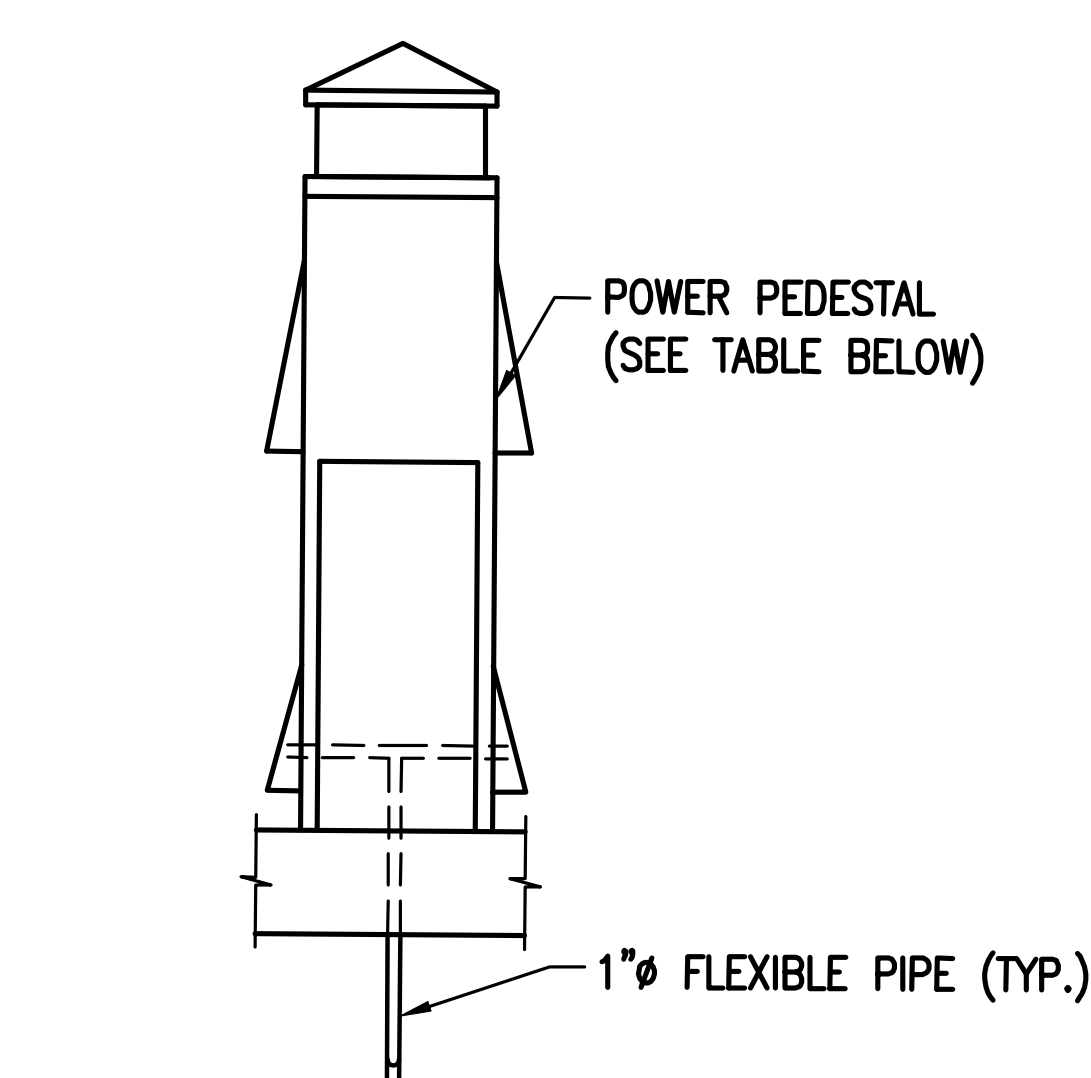
TYPICAL SECTION THRU FIRE CABINET INSTALLATION
1" = 2'
1 UTL1 UTL2



HOSE CABINET CONNECTION DETAIL
1" = 2'
4 UTL1 UTL2

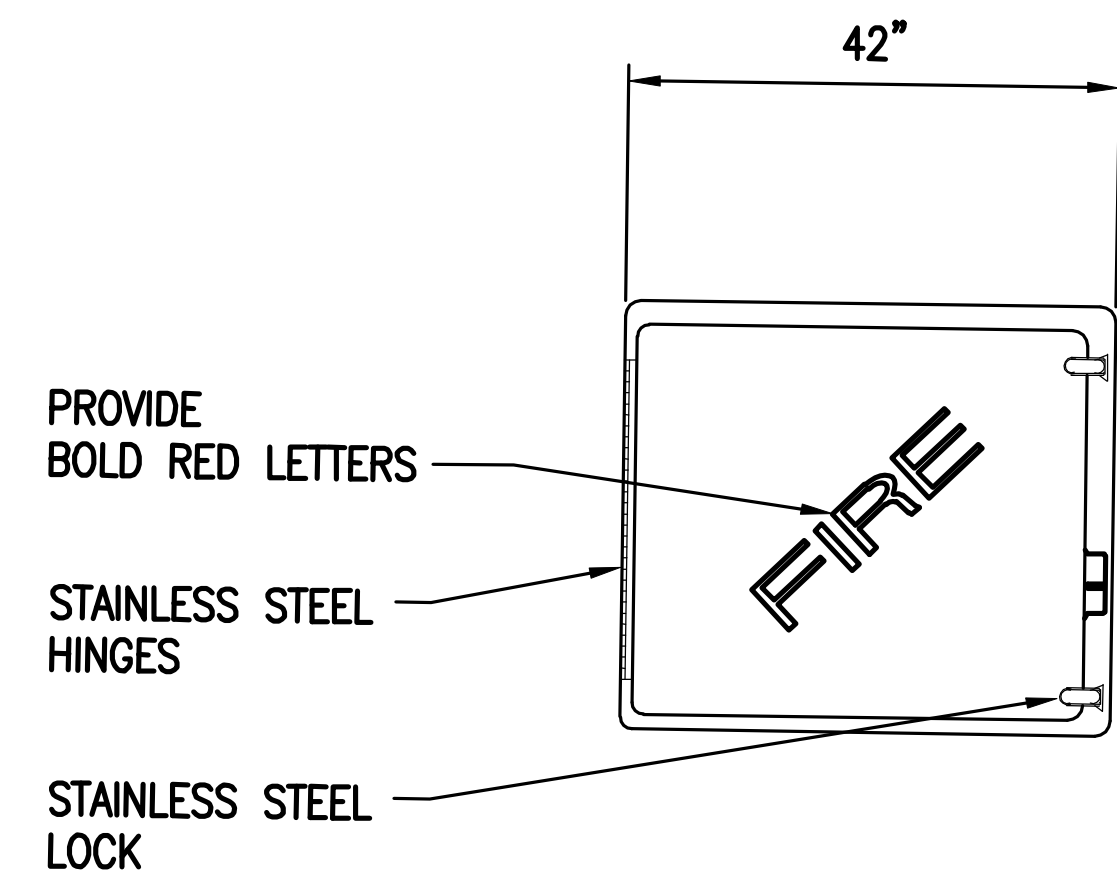


TYPICAL UTILITY PEDESTAL DETAIL
NTS
7 UTL1 UTL2

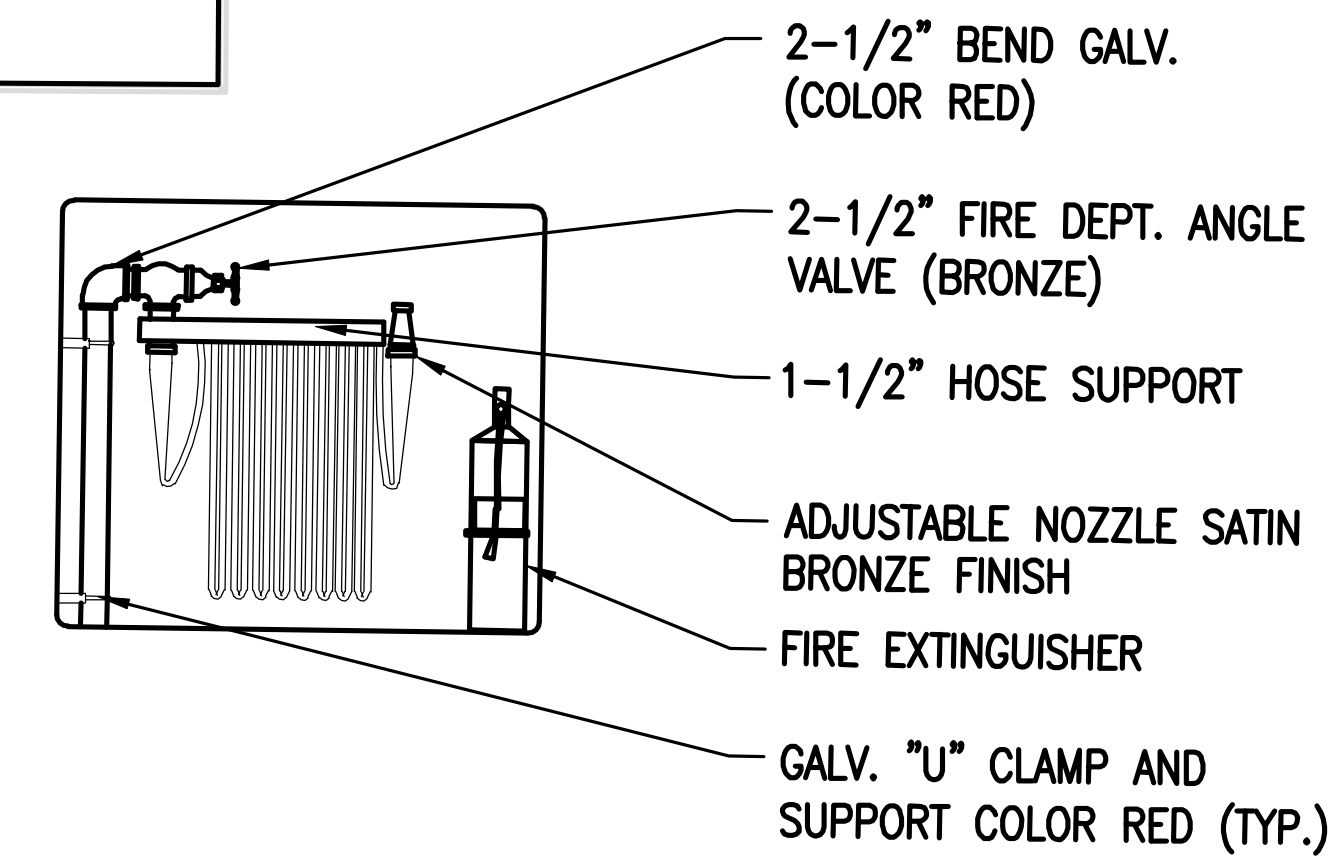


DOMESTIC WATER DETAIL
NTS
8 UTL1 UTL2

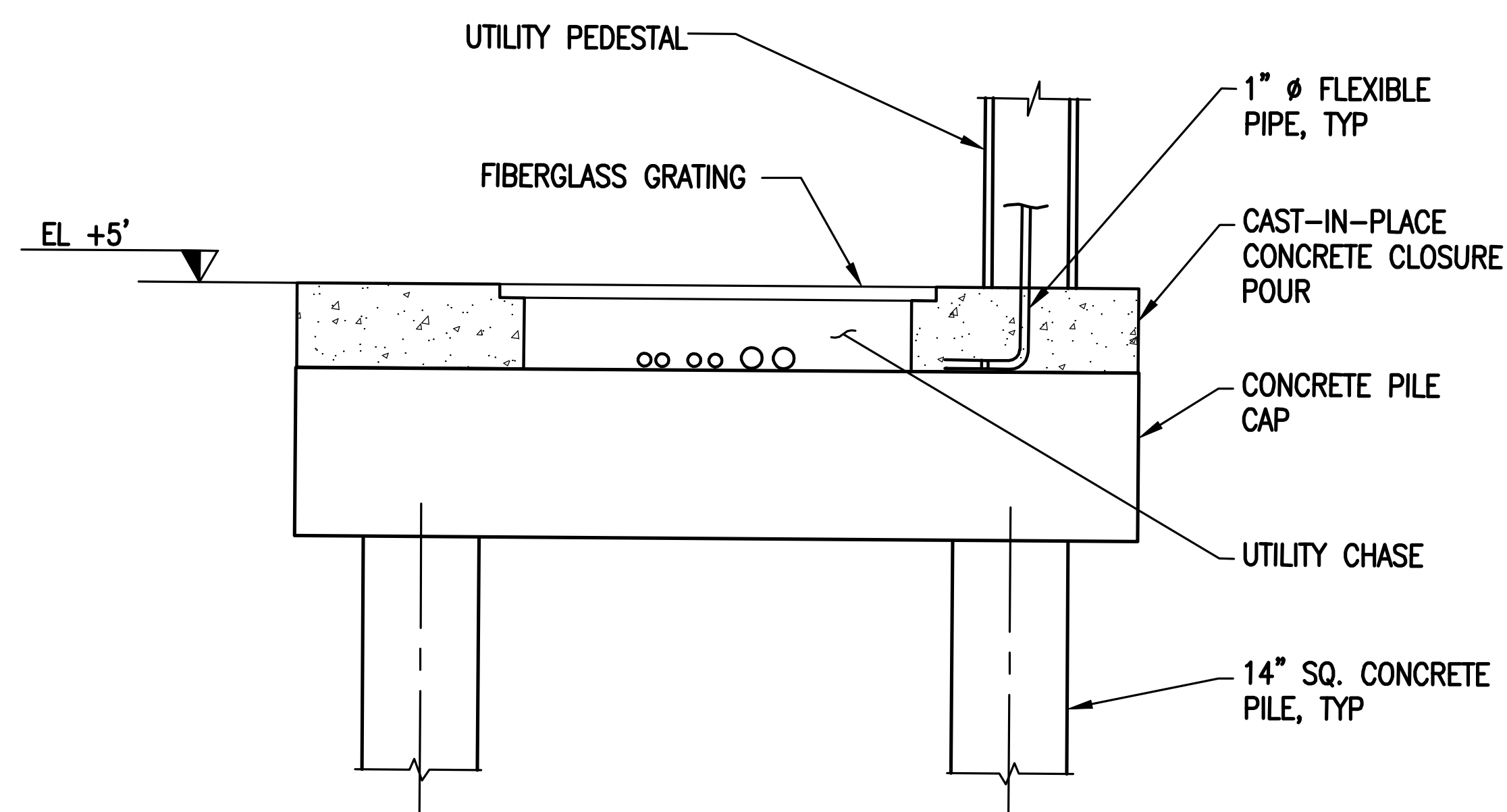
DECKING PANEL NOTES:
1. NO TIE-DOWNS OR ANCHORING TO BE USED ON DECKING PANELS.
2. SEE GENERAL NOTES FOR DECKING SPECIFICATIONS



FIRE CABINET DETAIL
NTS
2 UTL1 UTL2

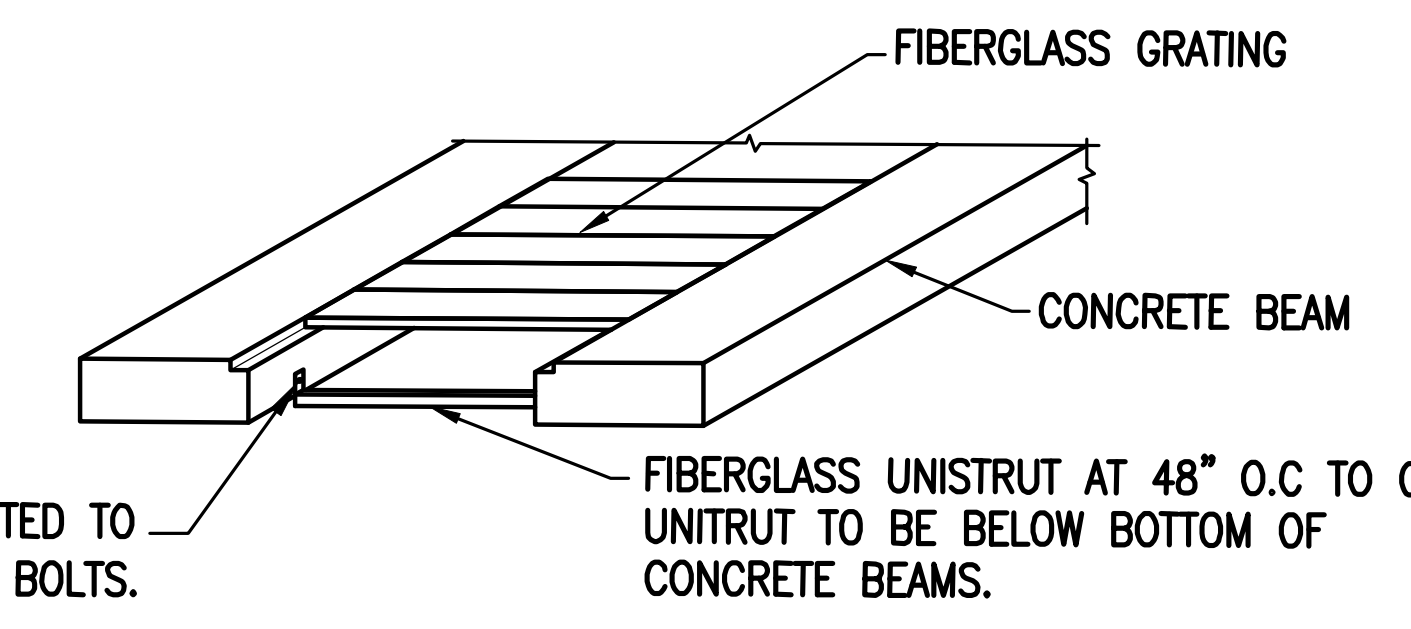


HOSE ASSEMBLY DETAIL
NTS
3 UTL2 UTL2

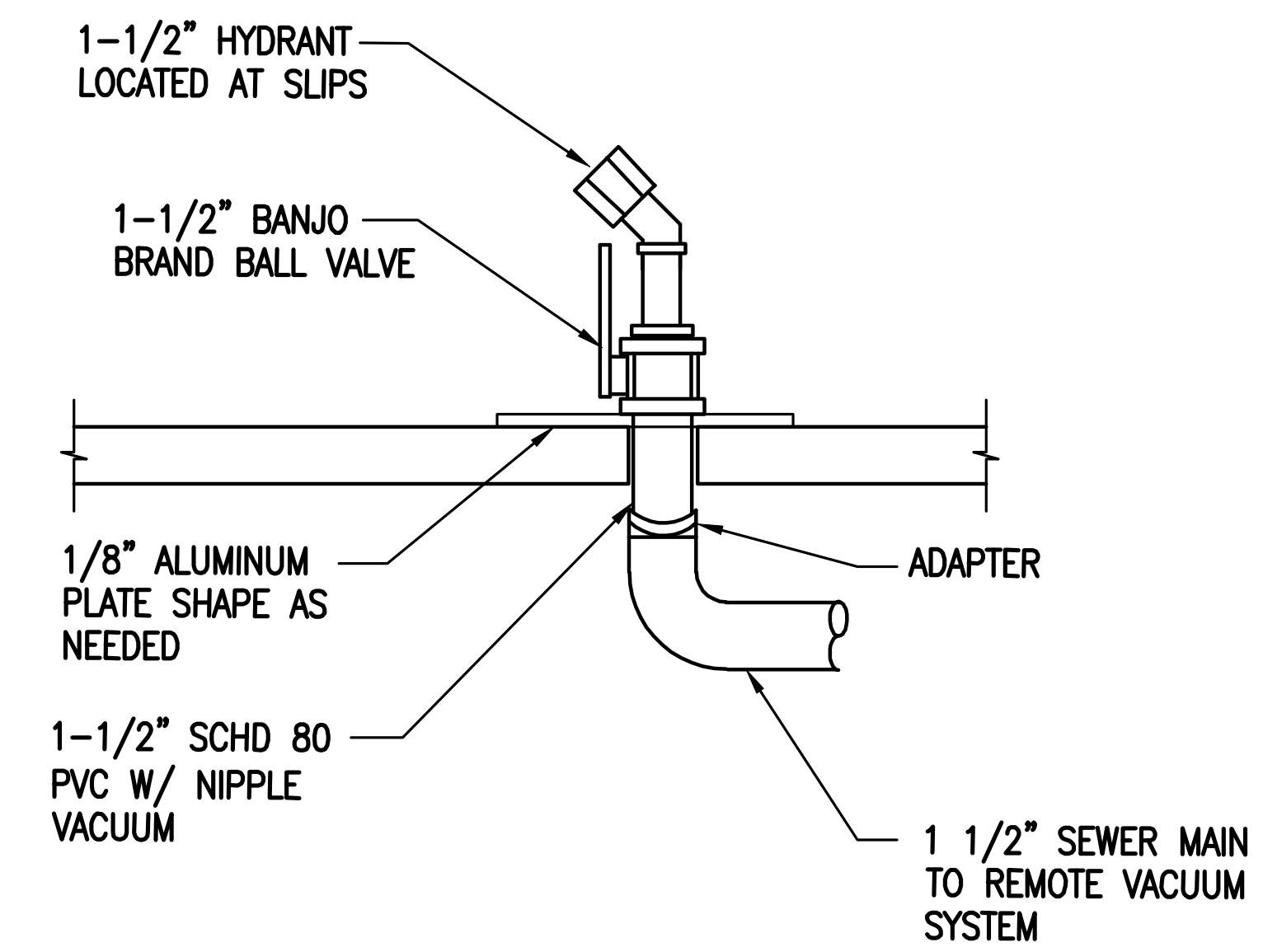


TYPICAL SECTION THRU PEDESTAL INSTALLATION
1" = 2'
5 UTL1 UTL2

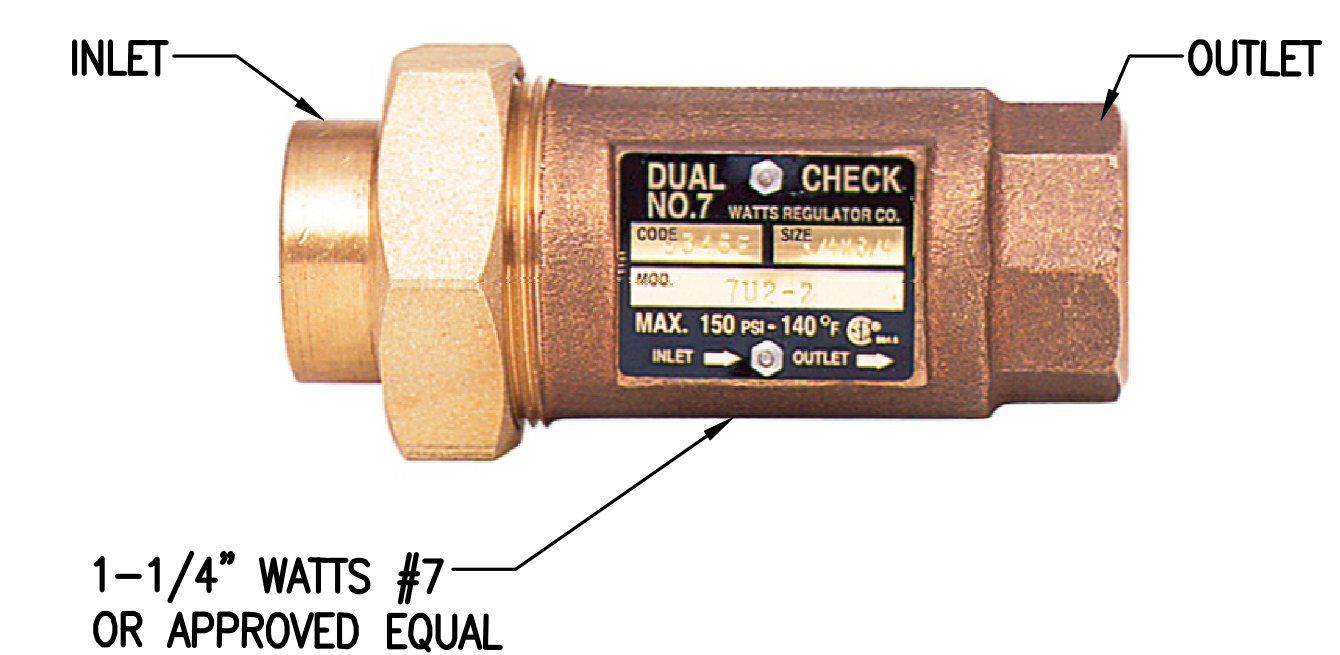
FIRE CABINET NOTES:
1. CABINETS AND FIRE PROTECTION EQUIPMENT SHALL MEET NFPA 14, CITY OF MIAMI FIRE DEPARTMENT AND FLORIDA BUILDING CODE REQUIREMENTS.
2. CONTRACTOR TO SUPPLY SHOP DRAWING FOR CABINETS AND MOUNTING SYSTEM TO COMPLY WITH NFPA 14.
3. CABINET SHALL BE MARINA POWER COMPANY FC-1 OR EQUIVALENT, PROVIDED BY CONTRACTOR.
4. CONTRACTOR TO INSTALL PIPING AND APPORTENANCES.



UTILITY CHASE DETAIL
NTS
6 UTL2 UTL2



SEWAGE PUMPOUT HYDRANT
NTS
9 UTL1 UTL2



BRONZE DUAL CHECK VALVE
NTS
10 UTL1 UTL2

PEDESTAL SCHEDULE:

PEDESTAL	DISCRPTION
TYPE A	REFER TO DETAILS ON SHEET E-4
TYPE D	REFER TO DETAILS ON SHEET E-4
TYPE E	REFER TO DETAILS ON SHEET E-4
T3	REFER TO DETAILS ON SHEET E-4
T4	REFER TO DETAILS ON SHEET E-4

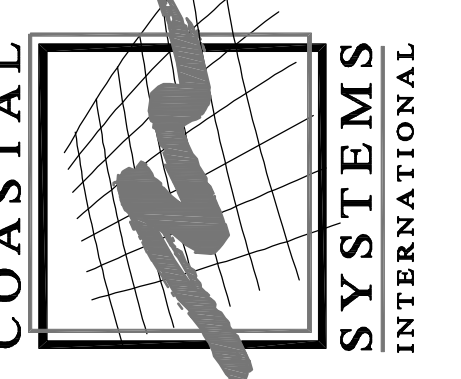
NOTE: EQUIPMENT PROVIDED BY OWNER. CONTRACTOR TO INSTALL

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

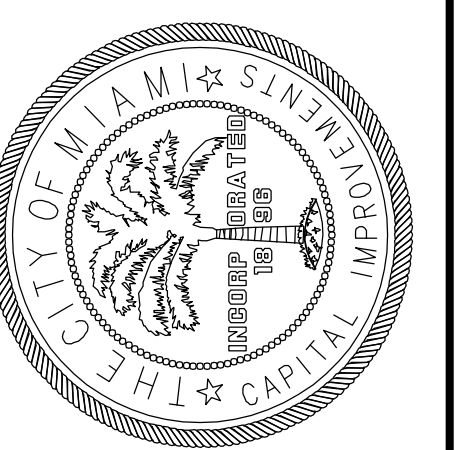
100% SUBMITTAL
PERMIT SET

DATE	BY	DESCRIPTION
7/6/06	MCS	100% SUBMITTAL
7/6/06	MCS	ISSUED FOR PERMIT
07/08/08	MCS	ISSUED FOR PERMIT
09/02/08	MCS	REVISION PER R.O.D. DEPT

COASTAL SYSTEMS INTERNATIONAL, INC.
464 South Dixie Highway, Coral Gables, Florida 33146
Tel: 305-661-3655 For: 305-661-1914 www.CoastalSystemsIntl.com
STATE OF FLORIDA EB #7087
Coastal, Environmental, Civil Engineering and Management



THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS
DINNER KEY MARINA PIER 3 REPAIRS UTILITY DETAILS



DRAWING NOT VALID WITHOUT EMBOSSED SEAL
T. N. BLANKENSHIP
FL. REG. 55910

SCALE: AS SHOWN
JOB: 220200.06
DATE: 7/6/06
DRAWN: MRR

UTL-2
11 OF 17 SHEETS

GENERAL ELECTRICAL NOTES

I. GENERAL REQUIREMENTS

A. DRAWINGS.

THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL OF THE MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, AND CHECK EXISTING FIELD CONDITIONS IN WHICH WORK WILL BE INSTALLED.

ONE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS SHALL BE KEPT ON FILE AT THE SITE FOR THE SOLE USE OF MARKING AS-BUILT DATA. ALL CHANGES SHALL BE MARKED IN RED ON THESE PRINTS AS WORK PROGRESSES.

PRIOR TO EACH REQUISITION FOR PAYMENT, AS-BUILT PRINTS SHALL BE BROUGHT UP TO DATE FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE.

THE COMPLETED SET OF AS-BUILT PRINTS SHALL BE DELIVERED TO THE ARCHITECT/ENGINEER PRIOR TO FINAL PAYMENT FOR INCORPORATION ONTO ORIGINALS.

RISERS ARE DIAGRAMMATIC IN NATURE AND DO NOT INDICATE REQUIRED BENDS AND PULLBOXES NECESSARY FOR THE INSTALLATION.

B. COORDINATION.

CONTRACTOR SHALL PROVIDE (FURNISH & INSTALL) AND/OR CONNECT WITH APPROPRIATE SERVICES ALL ELECTRICAL ITEMS SHOWN ON THE ELECTRICAL DRAWINGS WITHOUT ADDITIONAL EXPENSE TO THE OWNER. IF DISCREPANCIES, CONFLICTS, INTERFERENCES OR OMISSIONS ARE DISCOVERED, NOTIFY THE ARCHITECT/ENGINEER IN WRITING IN AMPLE TIME TO PERMIT REVISIONS TO BE MADE BEFORE THE BIDS ARE SUBMITTED.

C. TEMPORARY SERVICE.

TEMPORARY ELECTRICAL POWER SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED TO PERFORM THE WORK INDICATED BY THE PLANS.

D. PERMITS.

THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, STATE SALES TAX, FEDERAL EXCISE TAX, ROYALTIES AND OTHER TAXES OR FEES AS REQUIRED FOR INSTALLATION OF A COMPLETE SYSTEM AS OUTLINED HEREIN AND AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL SECURE ALL NECESSARY LICENSES AND INSURANCE.

E. BASIS FOR BIDS.

EQUIPMENT SPECIFIED SHALL BE ADHERED TO. HOWEVER, OWNER HAS FINAL DECISION ON THE TYPE AND QUALITY OF EQUIPMENT TO BE SUPPLIED.

WITHIN 30-DAYS AFTER THE CONTRACT HAS BEEN EXECUTED, A FORMAL REQUEST FOR THE SUBSTITUTION OF PRODUCTS IN PLACE OF THOSE SPECIFIED WILL BE CONSIDERED, UNDER THE FOLLOWING CONDITIONS:

THE REQUEST IS ACCOMPANIED BY COMPLETE DATA ON THE PROPOSED SUBSTITUTION SUBSTANTIATING COMPLIANCE WITH THE CONTRACT DOCUMENTS INCLUDING PRODUCT IDENTIFICATION AND DESCRIPTION, PERFORMANCE AND TEST DATA, REFERENCES AND SAMPLES WHERE APPLICABLE, AND AN ITEMIZED COMPARISON OF THE PROPOSED SUBSTITUTION WITH THE PRODUCTS SPECIFIED, WITH DATA RELATING TO CONTRACT TIME SCHEDULE, DESIGN AND AESTHETIC EFFECT WHERE APPLICABLE.

THE REQUEST IS ACCOMPANIED BY ACCURATE COST DATA ON THE PROPOSED SUBSTITUTION IN COMPARISON WITH THE PRODUCT SPECIFIED, WHETHER OR NOT MODIFICATION OF THE CONTRACT SUM IS TO BE A CONSIDERATION. IF REDESIGN BY THE ARCHITECT OR HIS CONSULTANTS IS REQUIRED TO ACCOMMODATE AN ALTERNATE PRODUCT OR SYSTEM, ALL COSTS OF THIS REDESIGN SHALL BE BORNE BY THE CONTRACTOR REQUESTING THE CHANGE. IF ADDITIONAL WORK IS REQUIRED BY OTHER CONTRACTORS TO ACCOMMODATE AN ALTERNATE PRODUCT OR SYSTEM, ALL ADDITIONAL COSTS OF THIS WORK SHALL BE BORNE BY THE CONTRACTOR REQUESTING THE CHANGE.

THE REQUEST SHALL BE ACCEPTED OR REJECTED SOLELY AT THE DISCRETION OF THE OWNER WITH ARCHITECT'S OR ENGINEER'S WRITTEN APPROVAL.

F. CODES & STANDARDS.

THE WORK PERFORMED UNDER DIVISION 16 SHALL COMPLY WITH THE LATEST EDITION AND REQUIREMENTS OF THE FOLLOWING:

APPLICABLE LOCAL CODES AND ORDINANCES, NATIONAL ELECTRICAL CODE, AS AMENDED BY LOCAL CODE, ALL APPLICABLE FEDERAL AND STATE CODES, REGULATIONS AND STATUTES, APPLICABLE ENERGY CODE, OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), UNDERWRITERS LABORATORIES, INC. (UL), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICANS WITH DISABILITIES ACT (ADA).

G. MATERIALS & EQUIPMENT.

MATERIAL AND EQUIPMENT SHALL BE NEW, STANDARD, CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH EQUIPMENT, AND SHALL BE THE MANUFACTURER'S LATEST DESIGN.

ALL MATERIALS SHALL BEAR THE LABEL OF THE UNDERWRITERS LABORATORY FOR THE INTENDED USE OR SHALL BE MATERIALS APPROVED BY THE CODE ENFORCING AUTHORITIES AND THE ARCHITECT.

FOLLOW THE INSTALLATION DIRECTIONS AND RECOMMENDATIONS OF MATERIAL AND EQUIPMENT MANUFACTURERS.

ALL WORK SHALL BE PERFORMED BY WORKERS SKILLED IN THEIR RESPECTIVE TRADES AND ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER.

INSTALL EQUIPMENT, INCLUDING SWITCHES, CONTROLLERS, AND TRANSFORMERS SUCH THAT REMOVAL OR REPLACEMENT MAY BE READILY ACCOMPLISHED WITHOUT DAMAGE TO EQUIPMENT OR FASTENERS.

IDENTIFY MAJOR ELECTRICAL COMPONENTS SUCH AS MARINE POWER OUTLETS AND POWER MODULES WITH APPROVED IDENTIFICATION NAMEPLATES. IDENTIFICATION SHALL BE AS DIRECTED AND APPROVED BY MARINA MANAGER.

H. SUPPORTING DEVICES

DEVICES, INCLUDING ANCHORS, FASTENERS, HANGERS AND SUPPORTS, SHALL BE OF A TYPE DESIGNED OR FABRICATED FOR THE PURPOSE, AND SHALL ADEQUATELY AND SAFELY SECURE THE MATERIAL AND EQUIPMENT AND PRESENT A NEAT APPEARANCE. USE DEVICES WITH CORROSION RESISTANT CHARACTERISTICS FOR THE ATMOSPHERIC CONDITIONS IN WHICH THEY ARE INSTALLED.

I. RACEWAYS & BOXES.

ROUTING OF RACEWAYS, INTERCONNECTING OUTLETS AND HOME-RUNS IS UP TO THE ELECTRICAL CONTRACTOR, BUT AFTER COMPLETION OF THE INSTALLATION, HE SHALL SUBMIT TO THE ENGINEER AS-BUILT DRAWINGS OF HIS WORK FOR FUTURE RECORD. DEVICE BOXES SHALL BE INSTALLED FLUSH, CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE INDICATED. ALL CONDUCTORS SHALL BE IN CONDUIT. FOR UNDERGROUND/IN-SLAB/BELOW PIER DECKING LOCATIONS USE SCHEDULE 40 PVC CONDUIT WITH GROUND WIRE SIZED AS INDICATED OR REQUIRED BY N.E.C., SECTIONS OF METALLIC CONDUIT SYSTEM SHALL BE GROUNDED AND ELECTRICALLY CONTINUOUS. USE LIQUIDTIGHT CONDUIT FOR FLEXIBLE CONNECTIONS IN ALL WET LOCATIONS. INSTALL A NYLON PULL-CORD IN ALL EMPTY RACEWAYS FOR FUTURE USE. SIZE PULL-BOXES PER NEC 314. PULL AND JUNCTION BOXES SHALL REMAIN ACCESSIBLE AT ALL TIMES.

INSTALL EXPOSED CONDUIT PERPENDICULAR TO THE EXISTING CONSTRUCTION LINES. CONCEAL CONDUIT UNDER ACCESSIBLE DOCK FLOORING.

ROUTE RACEWAYS TO AVOID CONFLICTS WITH EXISTING EQUIPMENT TO REMAIN IN SERVICE.

ALUMINUM CONDUIT SHALL NOT BE UTILIZED FOR THIS PROJECT.

USE PLASTIC OUTLET BOXES WITH GASKETED COVERS FOR ALL EXTERIOR AND FOR ALL DAMP OR WET LOCATIONS.

PROVIDE CONDUIT SUPPORTS IN ACCORDANCE WITH NEC ARTICLE 300.

PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING EXPANSION JOINTS IN THE STRUCTURE.

J. CONDUCTORS.

UNLESS OTHERWISE INDICATED, ALL CONDUCTORS ARE MINIMUM 12 AWG IN 1/2" CONDUIT. ALL CONDUCTORS SHALL BE COPPER. ACCEPTABLE INSULATION TYPES SHALL BE THW, THHN, THWN, AND XHHW, WITH USES AS RESTRICTED BY THE NEC. AMPACITIES OF CONDUCTORS IS BASED ON ARTICLE 310 OF THE NEC WITH UL LIMITATIONS: 60 DEG. RATING FOR SIZES 14 AWG THROUGH 1 AWG; 75 DEG. RATING FOR 1/0 AWG AND LARGER. CABLES 3/0 AWG AND LARGER SHALL BE TERMINATED WITH PRESSURE CRIMP CONNECTORS.

FOR 20 AMP BRANCH CIRCUITS GREATER THAN 100 FT. IN LENGTH, ONE WAY, UP TO 200 FT USE 10 AWG WIRE; OVER 200 FT, USE 8 AWG WIRE. INCREASE CONDUIT SIZE AS REQUIRED FOR THE LARGER CONDUCTORS. THIS SUPERSEDES WIRE SIZES CALLED FOR ON THE DRAWINGS.

CONDUCTORS SIZE 10 AWG AND SMALLER SHALL HAVE INSULATION COLORED FOR PHASES A, B, C AND NEUTRAL RESPECTIVELY AS FOLLOWS:

120/240 VOLTS: BLACK, RED, AND WHITE
208Y/120 VOLTS: BLACK, RED, BLUE, AND WHITE
480 VOLTS: BROWN, ORANGE, PURPLE

ALL CONDUCTORS OF THE SAME PHASE IN PARALLELED FEEDERS OR SERVICES SHALL BE SOLIDLY CONNECTED TOGETHER AT THEIR TERMINATION IN A WIREWAY OR SPLICE BOX. MAKE CONDUCTOR LENGTH FOR PARALLEL FEEDERS IDENTICAL.

THE PHASE DESIGNATION OF ALL SECONDARY CONDUCTORS SHALL BE THE SAME AND SHALL BE INDICATED IN OR ON ALL 3 PHASE OUTLETS, TRANSFORMERS, PANELBOARDS, AND DISCONNECT SWITCHES, AND THEY SHALL BE CONNECTED WITH UNIFORM PHASE SEQUENCE.

MAINTAIN A, B, C PHASE RELATION LEFT TO RIGHT WHEN VIEWED FROM THE FRONT. TAG ALL FEEDER CONDUCTORS AND IDENTIFY MAJOR CONDUITS IN OR AT WIREWAYS, PANELS, PULL BOXES, SWITCHBOARDS, MOTOR CONTROLLERS, CABINETS AND SIMILAR ITEMS TO ASSIST IN FUTURE CIRCUIT TRACING. CONDUCTOR TAGS SHALL BE NONCONDUCTIVE. IDENTIFICATION SHALL CORRESPOND TO THE CONTRACT DOCUMENTS.

K. GROUNDING.

THE RESISTANCE OF THE ELECTRICAL SERVICE TO GROUND SHALL NOT EXCEED 25 OHMS.

ALL CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR.

L. MOLDED CASE CIRCUIT BREAKERS.

CIRCUIT BREAKERS SHALL CONFORM TO APPLICABLE FEDERAL SPECIFICATIONS AND NEMA STANDARDS. CIRCUIT BREAKERS SHALL BE OF THE AMPERE RATING, VOLTAGE RATING, NUMBER OF POLES AND CLASS OR INTERRUPTING CAPACITY (I.C.) AS INDICATED. INTERRUPTING RATINGS ARE GIVEN IN ROOT MEAN SQUARE (RMS), SYMMETRICAL AMPERES BASED ON NEMA TEST PROCEDURES. LUGS AND TERMINALS SHALL BE U.L. APPROVED FOR COPPER-ALUMINUM. ACCESSORIES SHALL BE 120 VOLT. A.I.C. OF BREAKER TO BE INSTALLED ON EXIST. PANELS SHALL MATCH EXIST.

EACH CIRCUIT BREAKER SHALL HAVE A TRIP UNIT FOR EACH POLE WITH ELEMENTS PROVIDING INVERSE TIME DELAY UNDER OVERLOAD CONDITIONS AND INSTANTANEOUS MAGNETIC TRIP FOR SHORT CIRCUIT PROTECTION UNLESS INDICATED AS NON-AUTOMATIC. TRIP ELEMENTS SHALL OPERATE A COMMON TRIP BAR TO OPEN ALL ELEMENTS. BREAKERS USED FOR SWITCHING SHALL BE RATED FOR SWITCHING DUTY.

M. ELECTRICAL DATUM PLANE.

PER ARTICLE 555 OF THE 2005 NEC, AND PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL DETERMINE THE ELEVATION OF THE ELECTRICAL DATUM PLANE (EDP) AND PERMANENTLY AFFIX A MARKER, IN AN APPROVED BUT READILY ACCESSIBLE LOCATION, ON THE EXTERIOR OF THE DOCKMASTER BUILDING. THE MARKER SHALL BE A SUITABLE BRASS TAG INSTALLED AT THE MEASURED LEVEL FOR FUTURE USE AND INSPECTIONS REFERENCING THE 'EDP'.

ELECTRICAL CONNECTIONS FOR THIS PROJECT SHALL BE LOCATED MINIMUM 12" ABOVE THE DECK OF THE PIER BUT NOT BELOW THE EDP.

II. WORK IN EXISTING FACILITIES

THE SCOPE OF WORK INCLUDES THE RENOVATION AND REPAIR OF EXISTING WIRING AND EQUIPMENT IN THE AREA COMPRISING OF PIER 3 OF DINNER KEY MARINA AS INDICATED BY THE PLANS. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXACT LOCATION, QUANTITY, AND ACCESSIBILITY OF EXISTING EQUIPMENT AND CONDITIONS, AND COMPARE SAME WITH THE DRAWINGS AND SPECIFICATIONS PRIOR TO DELIVERING A BID PROPOSAL. NO ADDITIONAL ALLOWANCE WILL BE MADE TO THE CONTRACTOR DUE TO NEGLECT OR FAILURE TO COMPLY WITH THE SPECIFIED REQUIREMENTS.

THE CONTRACTOR IS HEREBY NOTIFIED THAT WORK TO BE PERFORMED UNDER THIS CONTRACT REQUIRES MODIFICATIONS OF EXISTING ELECTRICAL INSTALLATION OF WHICH PORTIONS MAY REMAIN IN USE AND WILL REQUIRE THAT ELECTRICAL POWER BE MAINTAINED TO AREAS TO REMAIN ACTIVE. CONTRACTOR IS REQUIRED TO COORDINATE THESE REQUIREMENTS AND TAKE INTO CONSIDERATION IN THE BID WORK WHICH MAY NEED TO BE PERFORMED ON WEEK-ENDS OR AFTER HOURS.

WIRING INDICATED AS EXISTING IS BASED ON EXISTING PLANS AND IS TO BE VERIFIED BY CONTRACTOR PRIOR TO STARTING WORK.

III DEMOLITION & REPAIRS

REMOVE EXISTING EQUIPMENT NOTED TO BE DEMOLISHED. PROVIDE OWNER'S REPRESENTATIVE WITH AS-BUILT DRAWINGS OF FINAL INSTALLATION FOR RECORD PURPOSES. CONTRACTOR IS NOTIFIED THAT NOT ALL EXISTING EQUIPMENT MAY HAVE BEEN INDICATED ON THE DRAWINGS AND THAT SOME EXISTING ELECTRICAL EQUIPMENT MAY NOT HAVE BEEN SHOWN IN THE ACTUAL LOCATIONS.

THE WORK SHALL INCLUDE THE FURNISHING OF ALL MATERIALS, CUTTING, EXTENDING, CONNECTING, REPAIRING, ADAPTING, AND OTHER WORK INCIDENTAL HERETO, TOGETHER WITH SUCH TEMPORARY INSTALLATIONS AS MAY BE NECESSARY TO PERFORM THE REQUIRED DEMOLITION. APPROVAL SHALL BE SECURED FROM THE OWNER'S REPRESENTATIVE PRIOR TO CUTTING/DRILLING ANY STRUCTURAL SUPPORT.

CONSTRUCTION AFFECTED BY THE REMOVAL, RELOCATION, INSTALLATION OF ANY EQUIPMENT SHALL BE REPAIRED AND FINISHED AS REQUIRED TO MATCH EXISTING CONDITIONS OR AS DIRECTED BY THE DRAWINGS, SPECIFICATIONS, OR OWNER'S REPRESENTATIVE.

WHEN DEMOLITION OF ELECTRICAL EQUIPMENT/SYSTEMS IS INDICATED BY THE PLANS OR REQUIRED AS WORK SEQUENCE, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT THEM BACK TO THE LAST PIECE OF EQUIPMENT TO REMAIN IN SERVICE OR BACK TO THE SOURCE. CIRCUIT(S) OR PORTIONS THEREOF TO REMAIN ACTIVE SHALL BE RE-ROUTED AND/OR RECONNECTED AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY. CONDUCTORS SHALL BE REMOVED BACK TO SOURCE FROM RACEWAYS NOT REUSED OR ABANDONED.

ALL ELECTRICAL EQUIPMENT SHALL BE REMOVED FROM STRUCTURE TO BE REMOVED.

ALL MATERIAL REMOVED SHALL BE TURNED OVER TO OWNER FOR DISPOSITION.

ELECTRICAL LEGEND

- COMPACT FLUORESCENT LIGHTING FIXTURE.
- DISTRIBUTION PANEL IN NEMA 3R CABINET, U.O.N.
- FUSED DISCONNECT SWITCH SIZED PER EQUIPMENT NAMEPLATE
- ⊕ 20A, 120 V., QUADRUPLEX RECEPTACLE, TWO DUPLEX IN TWO BOX. 18" A.F.F. OR AS DIRECTED BY ARCHITECT.
- ⊕ 20 A., 120., V., DUPLEX RECEPTACLE, GROUNDING TYPE, U.O.N. MOUNTED 18" A.F.F. OR AS DIRECTED BY ARCHITECT.
- CONDUIT RUNNING UNDERGROUND OR UNDER CONCRETE SLAB OR BELOW PIER DECKING.
- ◀ TELEPHONE/DATA OUTLET
- T1 ONE DRY TYPE ENCAPSULATED TRANSFORMER IN NEMA 3R ENCLOSURE. 25KVA-480V:120/240V-1φ-3W. MARINA POWER INC.
- T2 TWO DRY TYPE ENCAPSULATED TRANSFORMERS IN NEMA 3R ENCLOSURE. 2-25KVA-480V:120/240V-1φ-3W. MARINA POWER INC.
- E1 POWER MODULE WITH INTEGRAL DRY TYPE ENCAPSULATED TRANSFORMER(S) AND PRIMARY AND SECONDARY OVERCURRENT DEVICES. ALL IN NEMA 3R ENCLOSURE. 480V:120/240V-1φ-3W. MARINA POWER INC.
- E2 POWER MODULE WITH INTEGRAL DRY TYPE ENCAPSULATED TRANSFORMER(S) AND PRIMARY AND SECONDARY OVERCURRENT DEVICES. ALL IN NEMA 3R ENCLOSURE. 480V:120/240V-1φ-3W. MARINA POWER INC.
- FC □ FIRE CABINET WITH PULL STATION & STROBE. MARINA POWER INC.
- FC ONLY □ FIRE CABINET. MARINA POWER INC.
- A □ MARINE POWER CENTER. ADJACENT LETTER DENOTES TYPE. SEE SHEET E-11 FOR DETAILS. MARINE POWER INC.
- A □ MARINE POWER CENTER. ADJACENT LETTER DENOTES TYPE. SEE SHEET E-11 FOR DETAILS. MARINE POWER INC.
- ⊙ PHOTOCONTROL
- 'EDP' ELECTRICAL DATUM PLANE
- ⊕ TARGET POINT

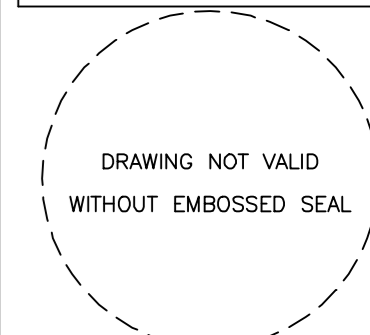
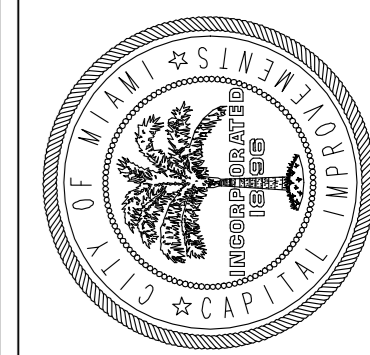
GENERAL ELECTRICAL NOTES AND LEGEND

N.T.S.

Gartek Project No. 2462
Gartek Engineering Corporation
 7210 S.W. 39th Terrace/Miami, FL 33155 (305)266-8997 Fax (305)264-9496
 4723 West Atlantic Ave. Ste. A18/Delray Beach, FL 33445 (561)637-8909 Fax (561)637-8959
 www.gartek-engineering.com Certificate of Authorization #3144
 Robert L. Belancourt, P.E. (Mechanical) State of Florida #4788
 M. F. Garcia, P.E. (Electrical) State of Florida #24221
In my professional judgment and to the best of my knowledge and belief, these plans and specifications comply with applicable Building Codes.
 This document and the information it contains is the exclusive property of Gartek Engineering and may not be reproduced or used for other purposes other than the specific project for which it was prepared without the explicit consent of Gartek Engineering.

SCALE: AS SHOWN
 JOB: 220200.06
 DATE: 07/07/08
 DRAWN: SD/LG

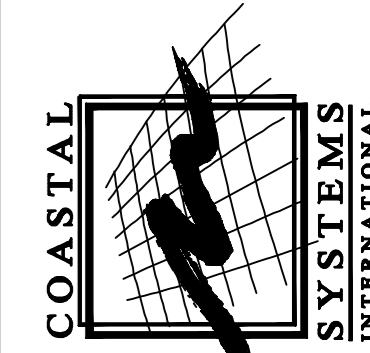
E-1



M. F. GARCIA
 FL. REG. 24221

DATE	REV.	DESCRIPTION
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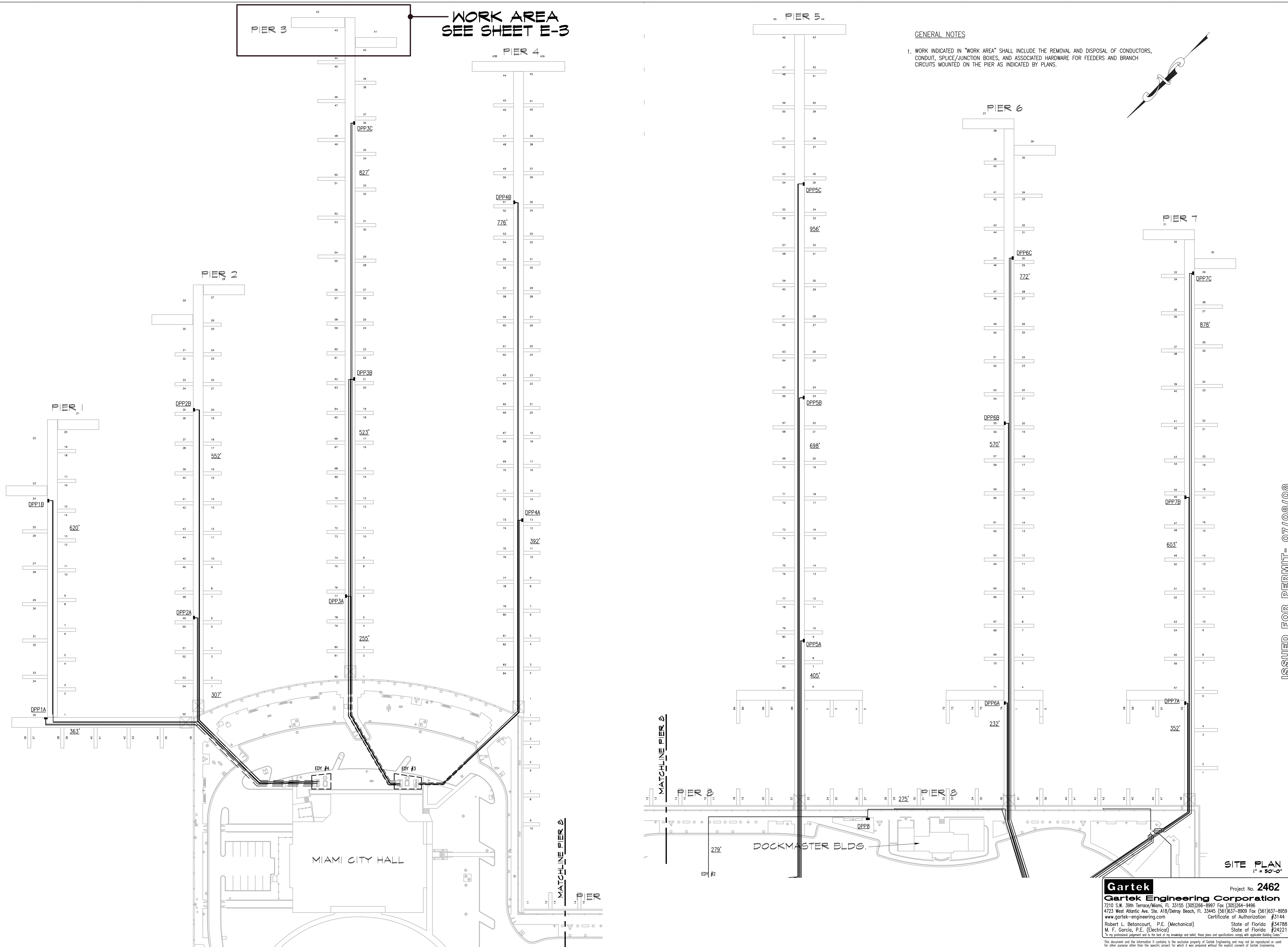
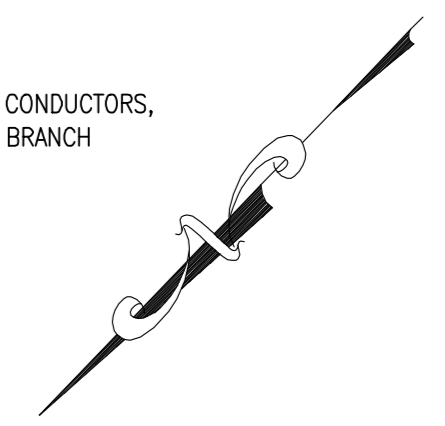
COASTAL SYSTEMS INTERNATIONAL, INC.
 464 South Dixie Highway, Coral Gables, Florida 33146
 Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsInt.com
 STATE OF FLORIDA EB #7087
 Coastal, Environmental, Civil Engineering and Management



**WORK AREA
SEE SHEET E-3**

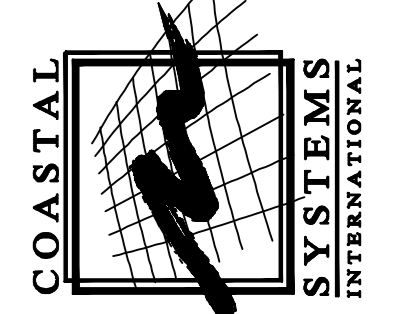
GENERAL NOTES

1. WORK INDICATED IN "WORK AREA" SHALL INCLUDE THE REMOVAL AND DISPOSAL OF CONDUCTORS, CONDUIT, SPLICE/JUNCTION BOXES, AND ASSOCIATED HARDWARE FOR FEEDERS AND BRANCH CIRCUITS MOUNTED ON THE PIER AS INDICATED BY PLANS.



DATE	REV	DESCRIPTION	BY
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XX	A		
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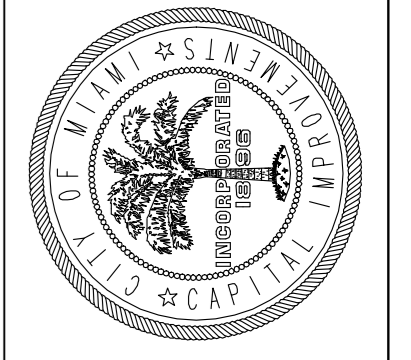
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ISSUED FOR PERMIT- 07/08/08

**THE CITY OF MIAMI DEPARTMENT
OF CAPITAL IMPROVEMENTS**

**DINNER KEY MARINA PIER 3 REPAIRS
BEAM & DECKING PLAN**



DRAWING NOT VALID
WITHOUT EMBOSSED SEAL

M. F. GARCIA
FL. REG. 24221

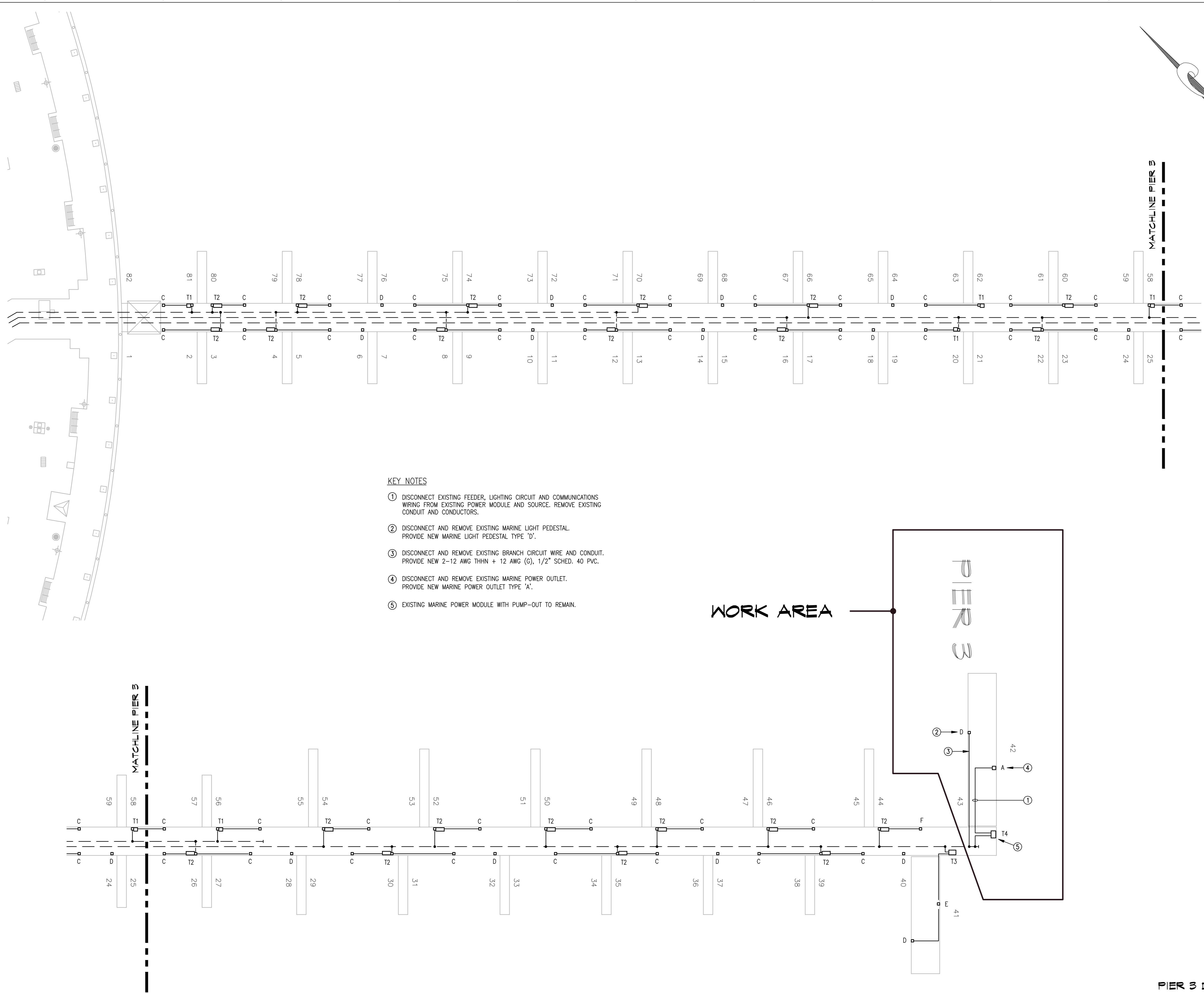
SCALE: AS SHOWN
 JOB: 220200.06
 DATE: 07/07/08
 DRAWN: SD/LG

E-2
2 OF 6 SHEETS

Gartek Project No. 2462
Gartek Engineering Corporation
 7210 S.W. 39th Terrace/Miami, FL 33155 (305)266-8997 Fax (305)264-9496
 4723 West Atlantic Ave. Ste. A18/Delray Beach, FL 33445 (561)637-8909 Fax (561)637-8959
 www.gartek-engineering.com Certificate of Authorization #3144
 Robert L. Bontancourt, P.E. (Mechanical) State of Florida #34788
 M. F. Garcia, P.E. (Electrical) State of Florida #24221
"In my professional judgment and to the best of my knowledge and belief, these plans and specifications comply with applicable Building Codes."

FILE NAME: C:\Project\220200.06\Construction Drawings\Working\220200_Base.dwg

FILE NAME: F:\Project\220200.06\Construction Drawings\Working\220200_06a.dwg



KEY NOTES

- ① DISCONNECT EXISTING FEEDER, LIGHTING CIRCUIT AND COMMUNICATIONS WIRING FROM EXISTING POWER MODULE AND SOURCE. REMOVE EXISTING CONDUIT AND CONDUCTORS.
- ② DISCONNECT AND REMOVE EXISTING MARINE LIGHT PEDESTAL. PROVIDE NEW MARINE LIGHT PEDESTAL TYPE "D".
- ③ DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT WIRE AND CONDUIT. PROVIDE NEW 2-12 AWG THHN + 12 AWG (G), 1/2" SCHED. 40 PVC.
- ④ DISCONNECT AND REMOVE EXISTING MARINE POWER OUTLET. PROVIDE NEW MARINE POWER OUTLET TYPE "A".
- ⑤ EXISTING MARINE POWER MODULE WITH PUMP-OUT TO REMAIN.

PIER 3 DEMOLITION & NEW WORK
1" = 20'-0"

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E-3

3 OF 6 SHEETS



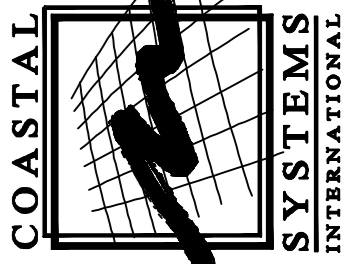
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THE CITY OF MIAMI DEPARTMENT OF CAPITAL IMPROVEMENTS

DINNER KEY MARINA PIER 3 REPAIRS BEAM & DECKING PLAN

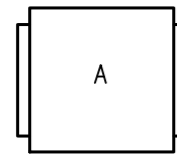
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FL. REG. 24221

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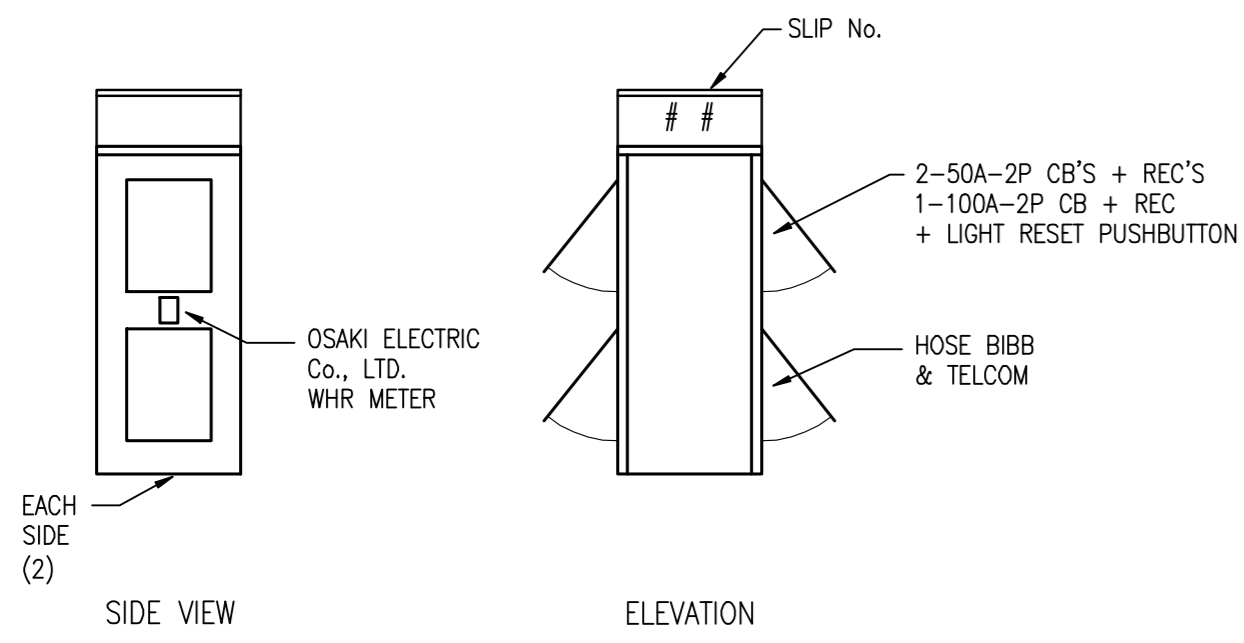


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Coastal, Environmental, Civil Engineering and Management

DATE	REV	DESCRIPTION	BY
XX	XX		MR
XX	XX		GS
XX	A		XX
XX	A		XX

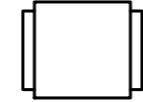


PLAN VIEW

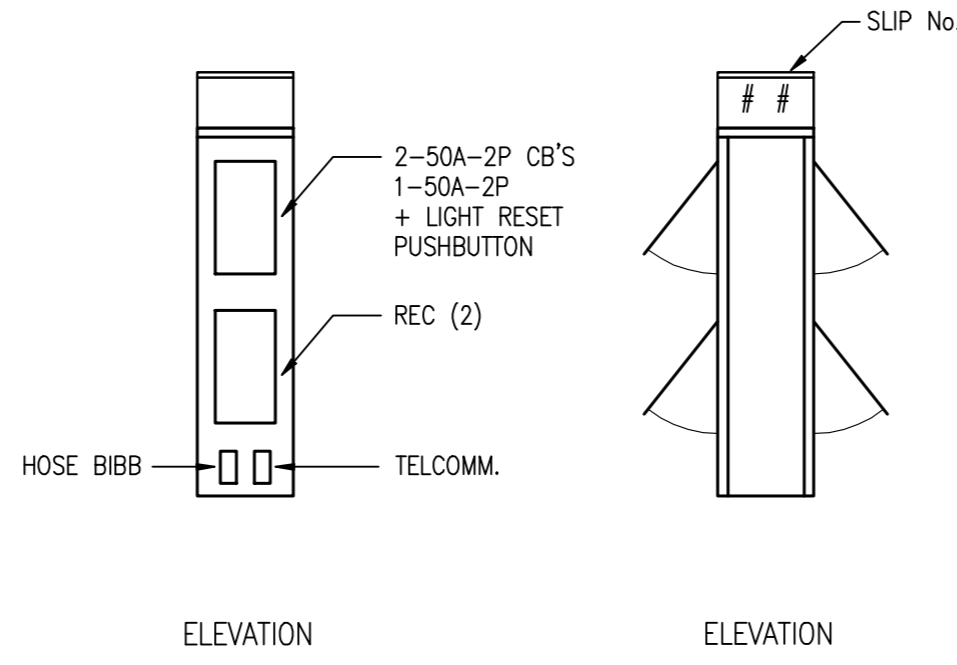


DETAIL A & A1

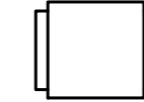
2-50A-2P CB'S + REC'S
1-100A-2P CB + REC
+ LIGHT RESET PUSHBUTTON



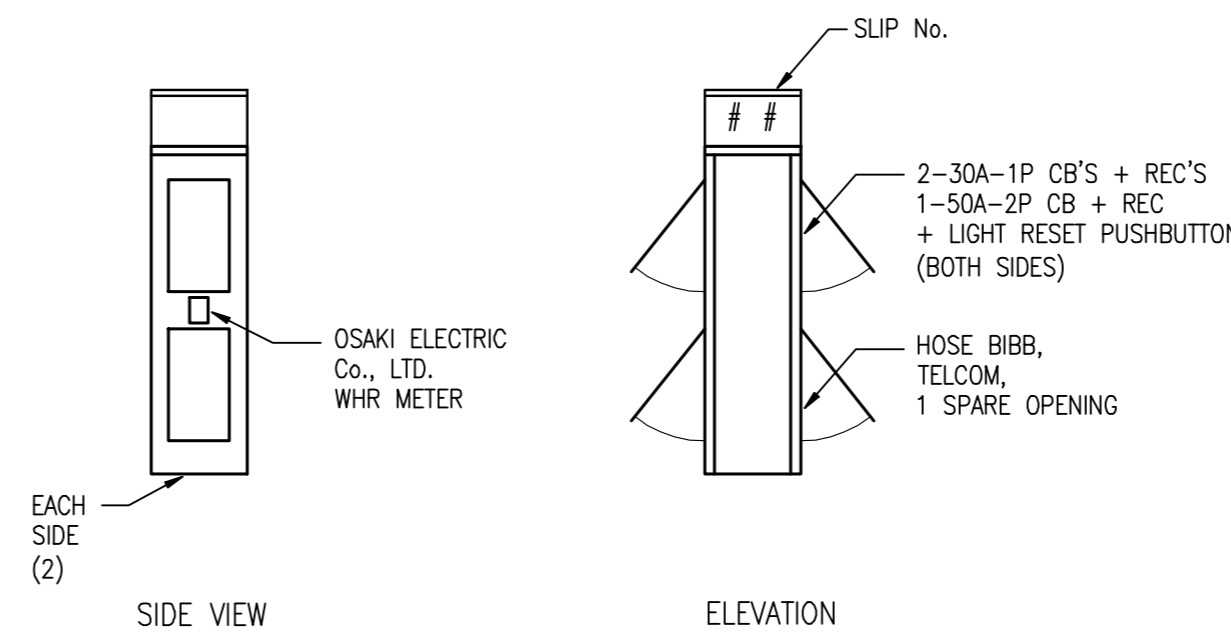
PLAN VIEW



DETAIL B



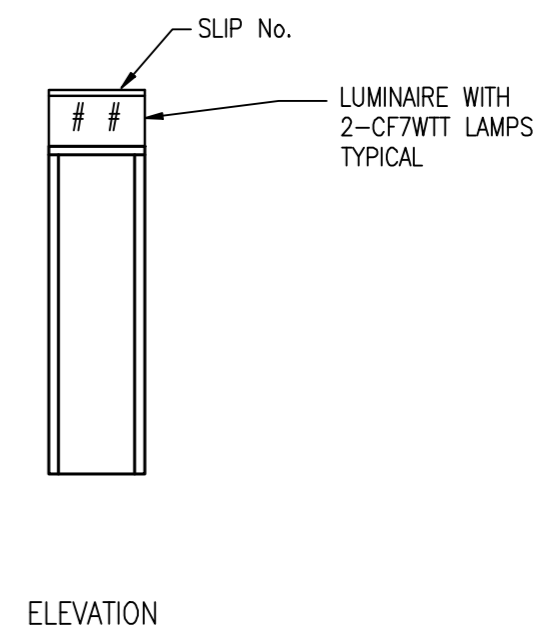
PLAN VIEW



DETAIL C



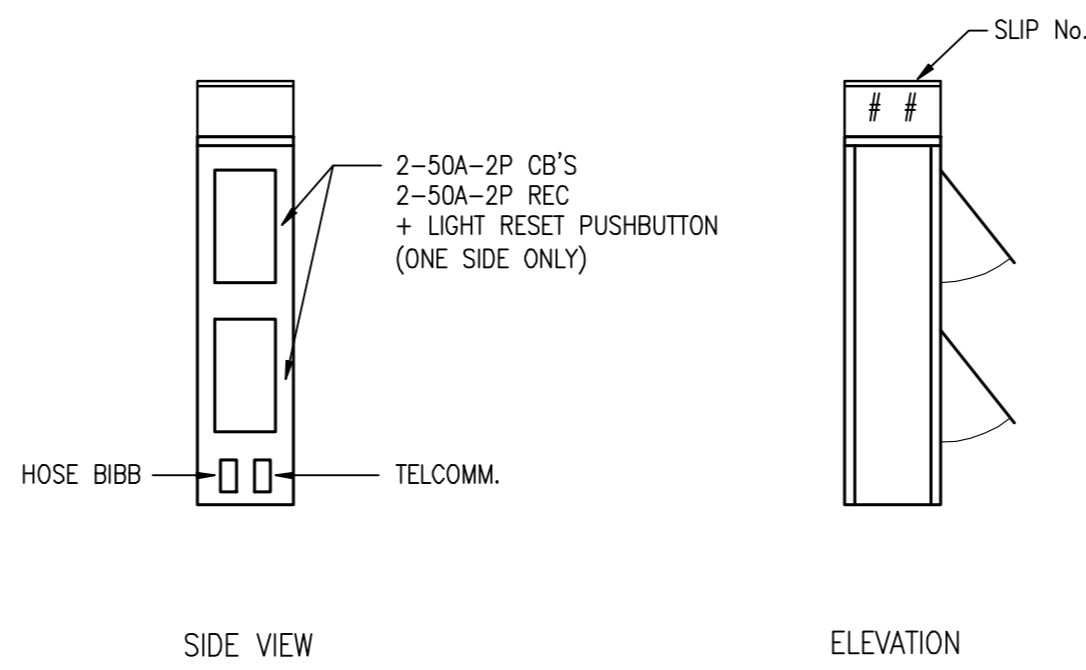
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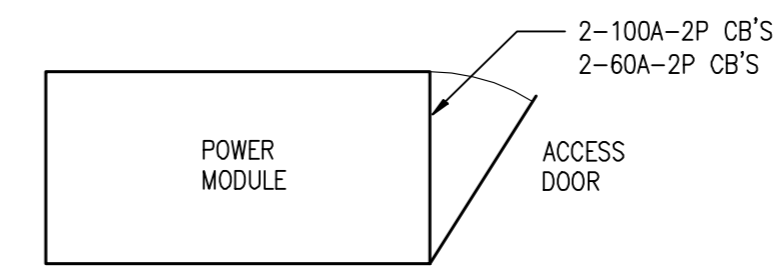
DETAIL D



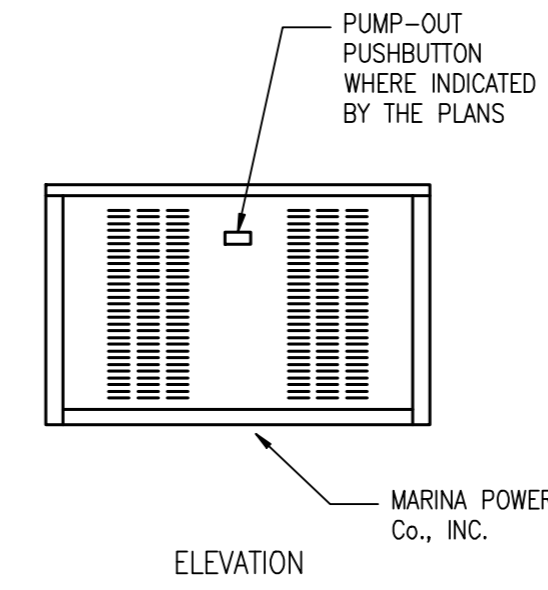
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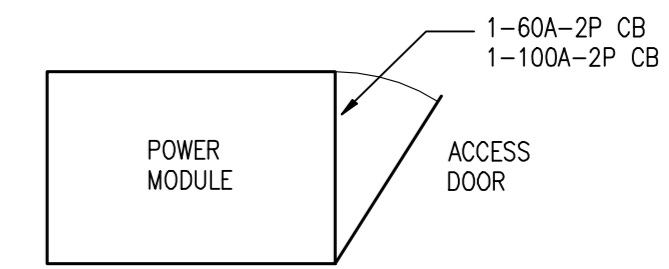
DETAIL E



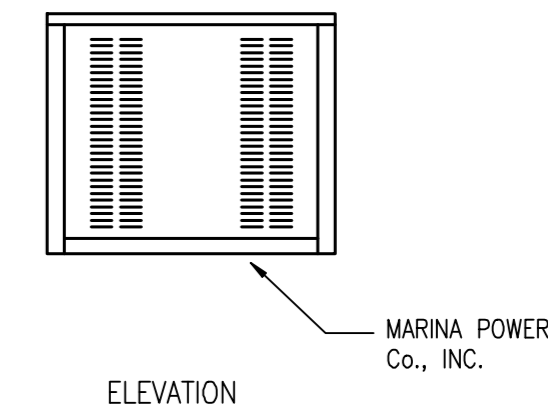
PLAN VIEW



DETAIL T4



PLAN VIEW



DETAIL T3

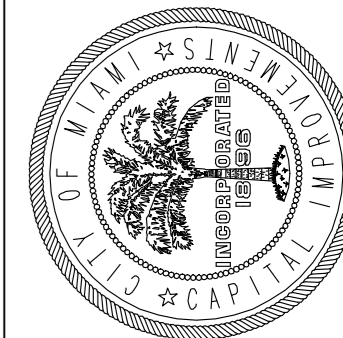
ELECTRICAL DETAILS
1/2" = 1'-0"

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JOB: 220200.06
DATE: 07/07/08
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E-4

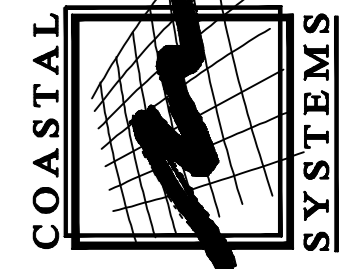
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DINNER KEY MARINA PIER 3 REPAIRS
BEAM & DECKING PLAN



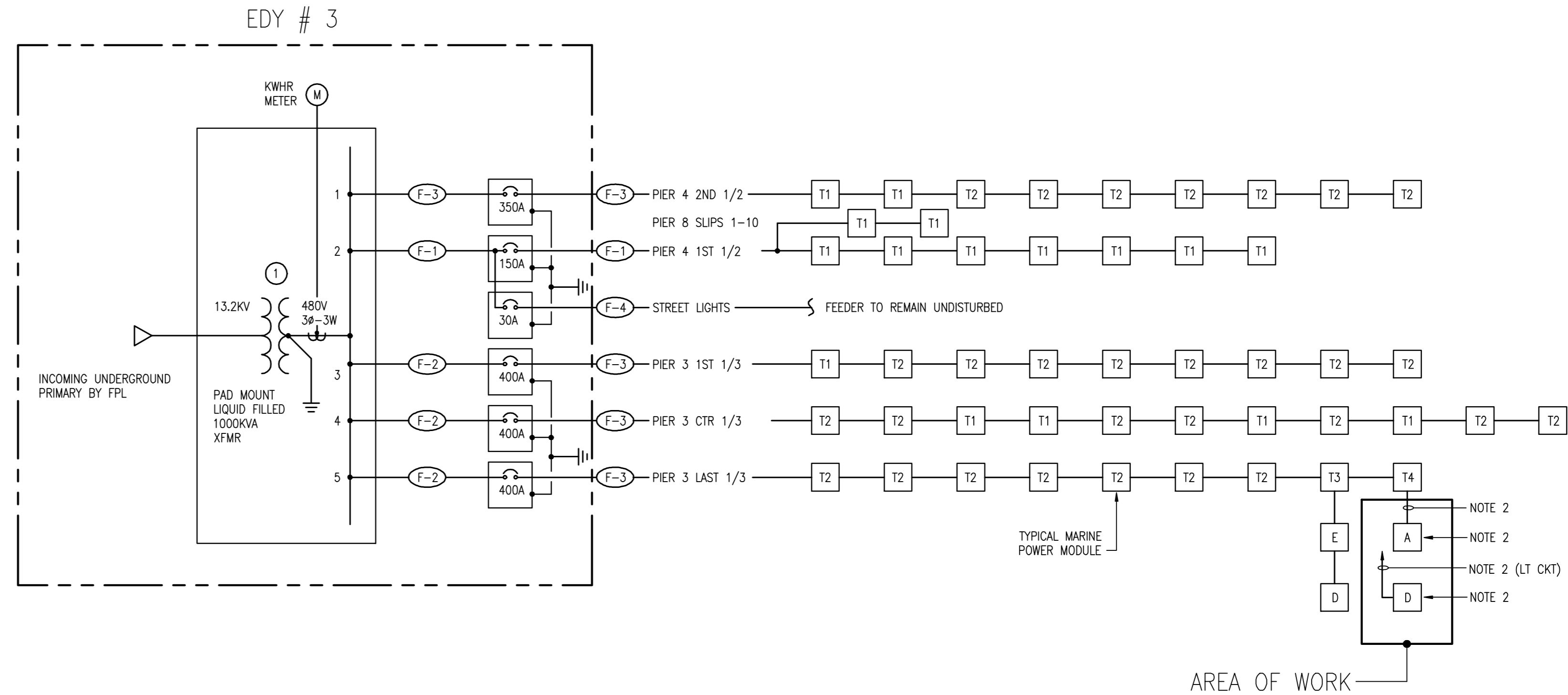
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M. F. GARCIA
FL. REG. 24221

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FILE NAME: C:\Project\220200.06\Construction Drawings\Working\220200_Board.dwg



SINGLE LINE DIAGRAM
NO SCALE

- NOTE:
1. ALL EQUIPMENT IS EXISTING TO REMAIN U.O.N.
 2. REMOVE AND REPLACE WITH NEW.

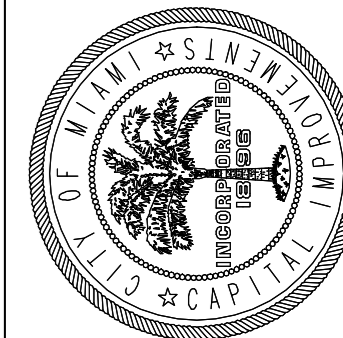
FEEDER SCHEDULE		
TAG	WIRE AND CONDUIT	REMARKS
F-1	3-3/0 AWG THW CU + 1-6 AWG(G) IN 2" SCHED 40 PVC CONDUIT	(NOTE 1)
F-2	3-500 KCML THW CU + 1-2 AWG(G) IN 3" SCHED 40 PVC CONDUIT	(NOTE 1)
F-3	2 SETS 3-4/0 AWG THW CU + 1-2 AWG(G) IN 2" SCHED 40 PVC CONDUIT EACH	(NOTE 1)
F-4	2-8 AWG THW CU + 1-10 AWG(G) IN 1" SCHED 40 PVC CONDUIT	(NOTE 1)

- NOTES:
1. EXISTING FEEDER

SINGLE LINE DIAGRAMS (EXISTING)
1/2" = 1'-0"

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THE CITY OF MIAMI DEPARTMENT
OF CAPITAL IMPROVEMENTS
DINNER KEY MARINA PIER 3 REPAIRS
BEAM & DECKING PLAN



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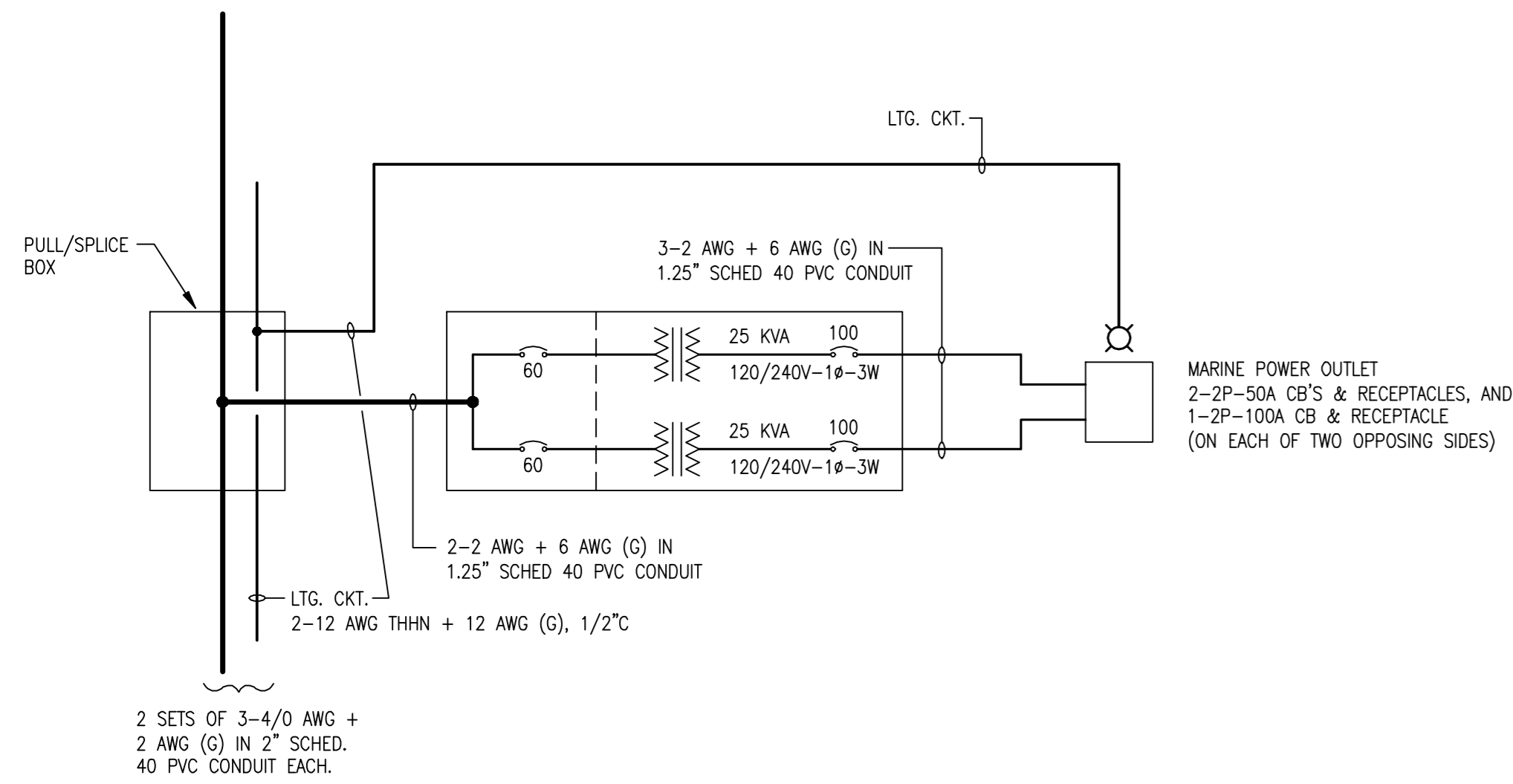
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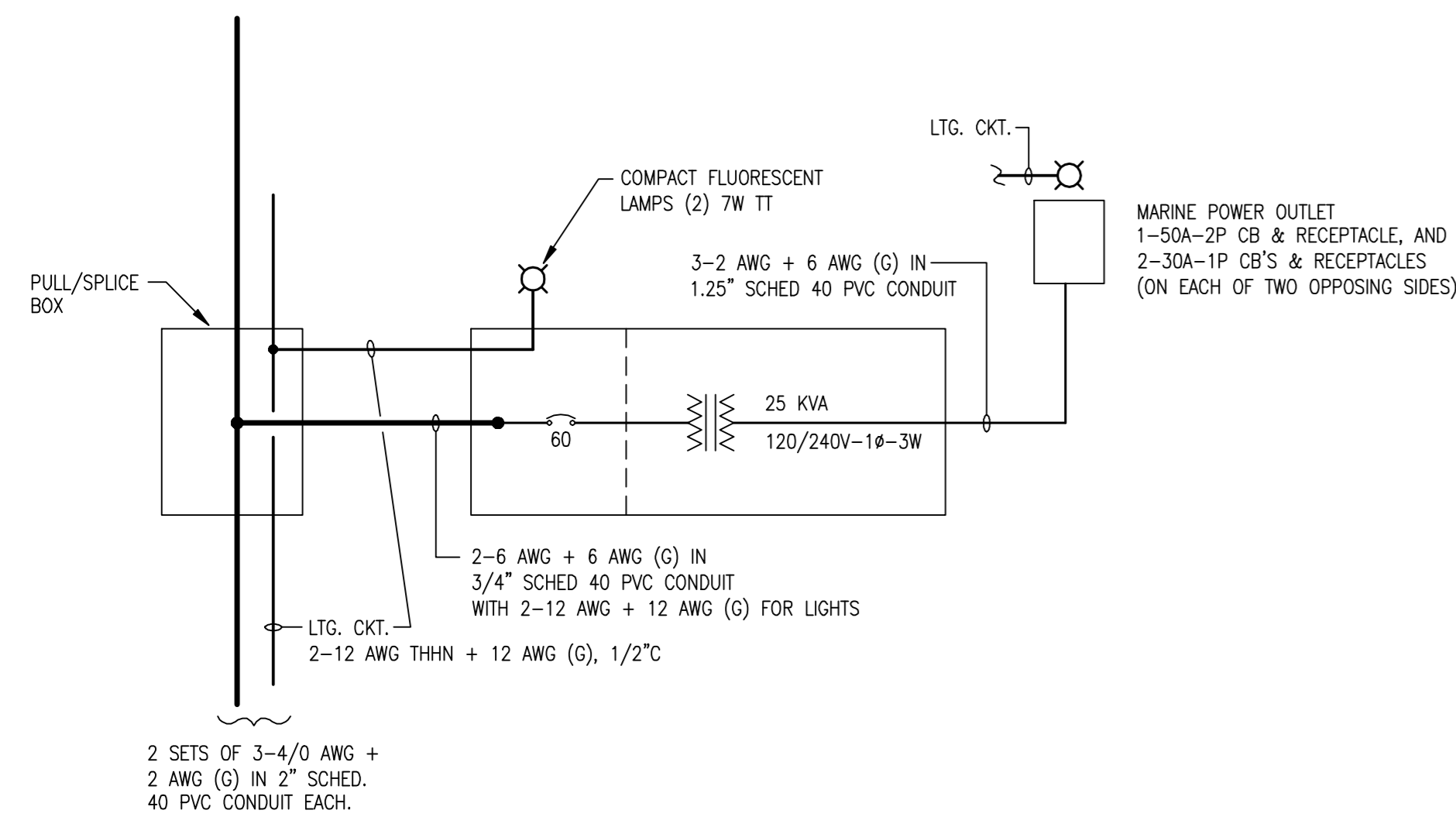
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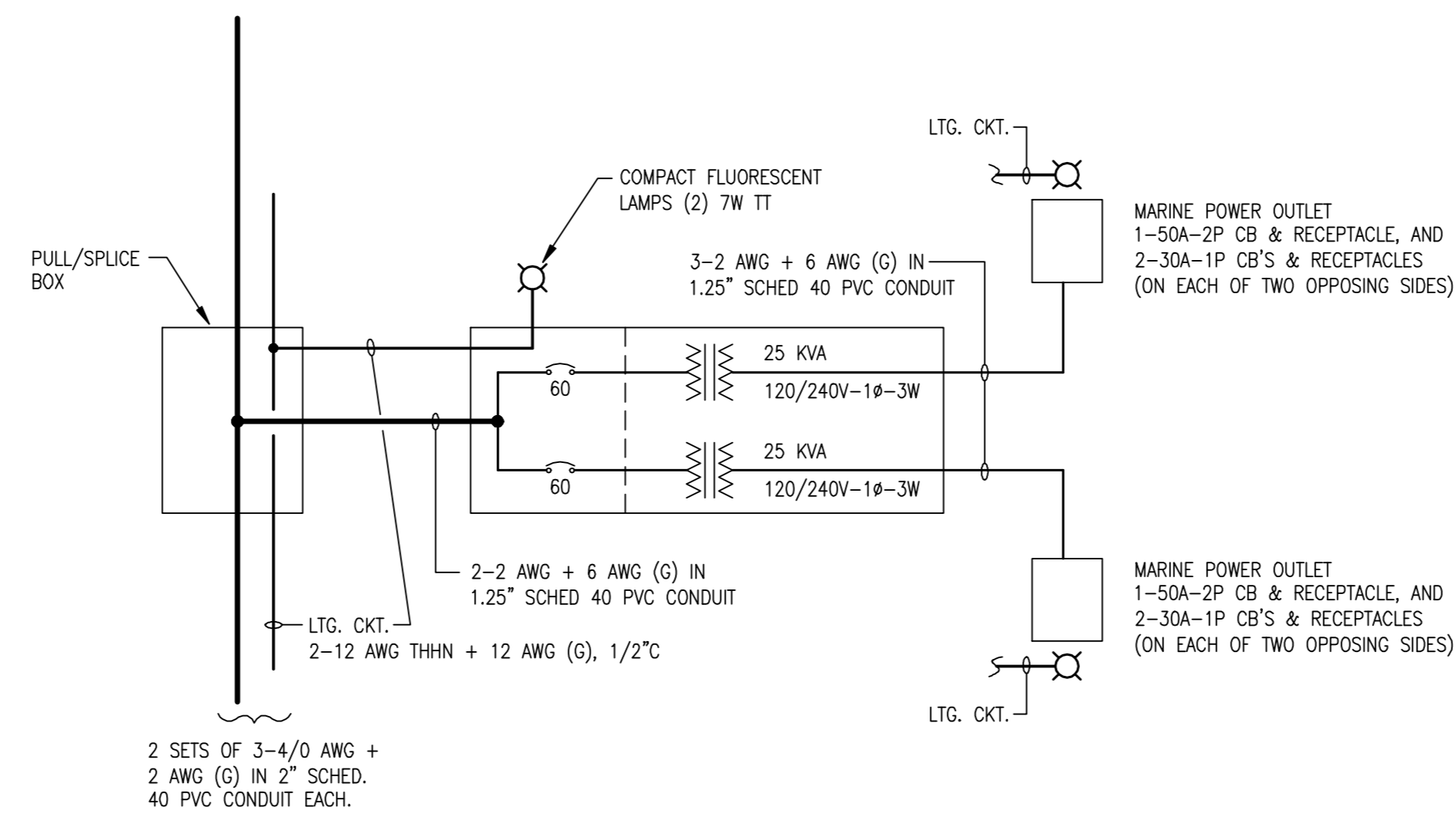
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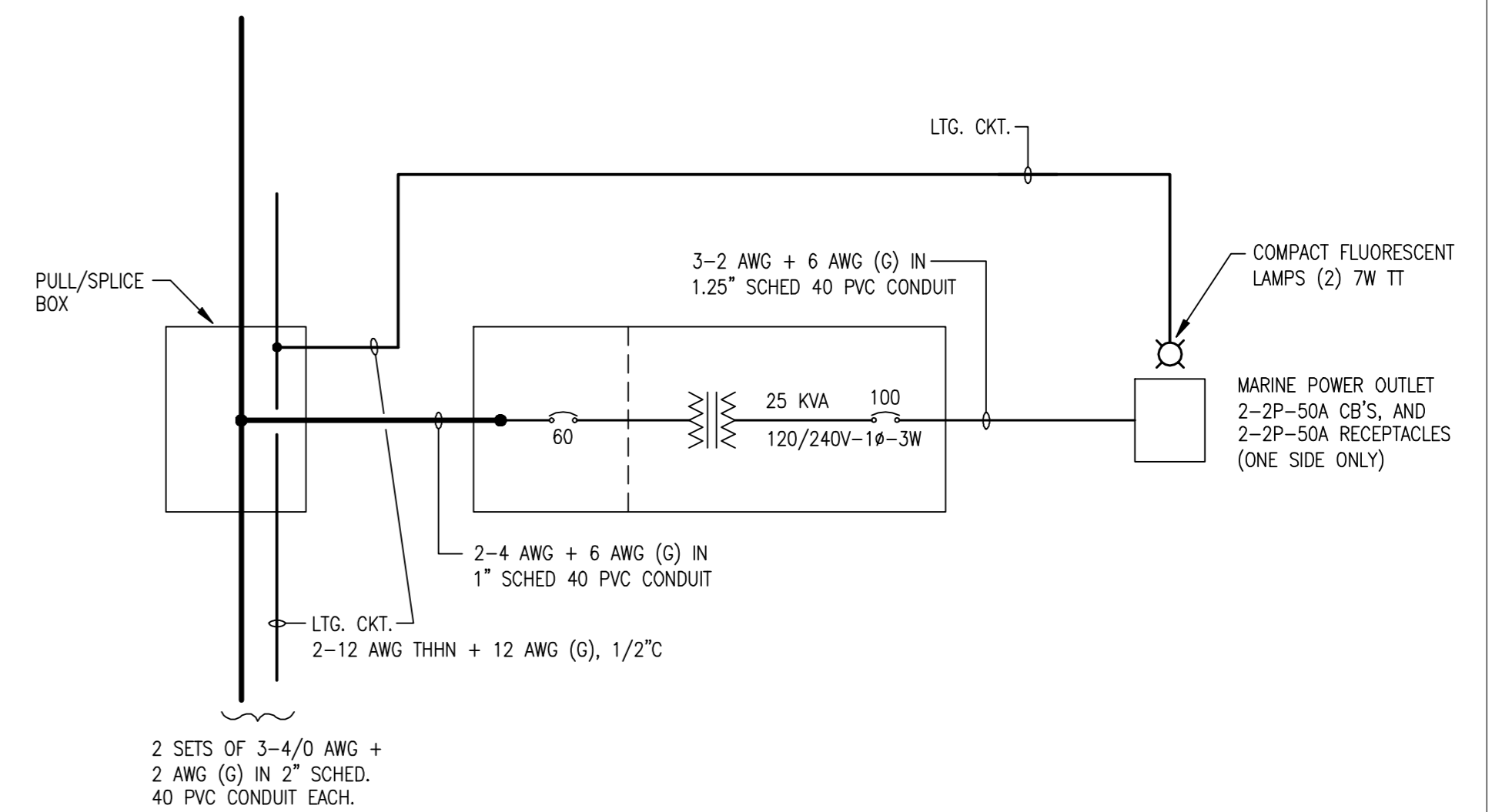
TYPICAL 'T4' POWER MODULE DISTRIBUTION (EXISTING)
NO SCALE



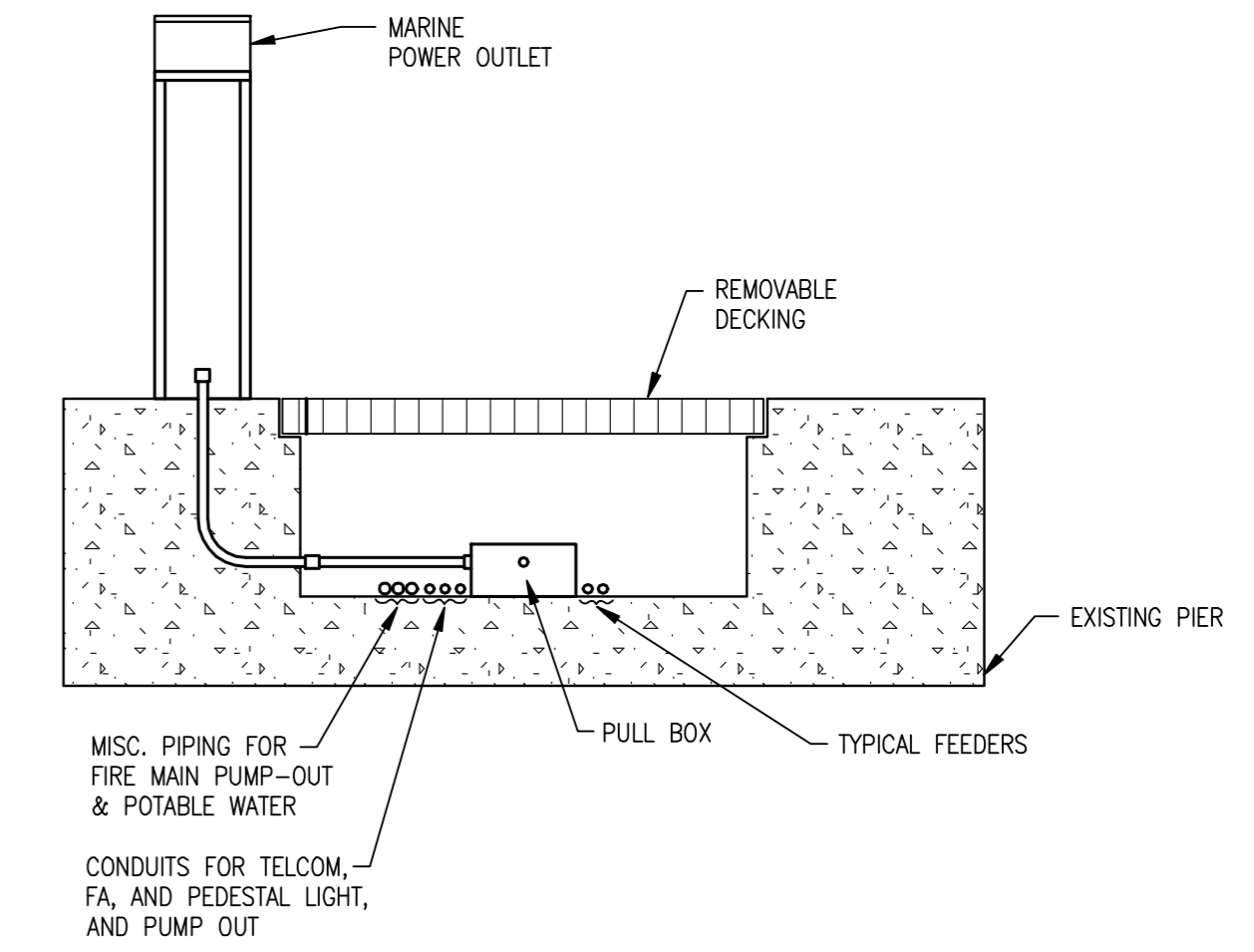
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NO SCALE



TYPICAL 'T2' POWER MODULE DISTRIBUTION (EXISTING)
NO SCALE



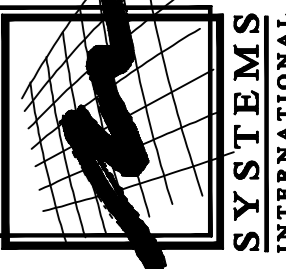
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NO SCALE



PIER SECTION (TYPICAL)
NO SCALE

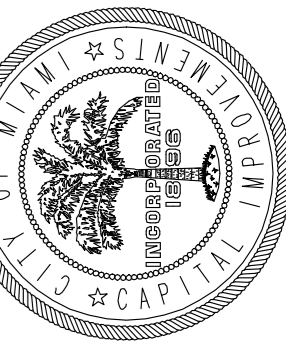
DATE	REV	BY	DESCRIPTION
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XX	XX	XX	

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ELECTRICAL DETAILS
1/2" = 1'-0"

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SCALE: AS SHOWN
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 DATE: 07/07/08
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E-6
6 OF 6 SHEETS

DINNER KEY
MAINTENANCE
DREDGING
CITY OF MIAMI



COASTAL SYSTEMS INTERNATIONAL, INC.

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Fax: 305-661-1914
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State of Florida EB #7087
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CONSULTANTS

POINT	EASTING (FT.)	NORTHING (FT.)
A	908637	507535
B	908684	507494
C	908623	507345
D	908507	507236
E	908403	507180
F	908315	507212
G	908232	507287
H	907896	506956
I	907738	506819
J	907324	507190
K	907317	507224
L	907295	507254
M	907247	507279
N	907106	507230
O	906942	507132



ESTIMATED DREDGE QUANTITIES:

DREDGE QUANTITIES: STA. 0+00 - STA. 9+00
 MAINTENANCE DREDGING TO -5' (MLW)
 DREDGE AREA= 24,243 S.F.
 DREDGE VOLUME= 850 C.Y.
 1 FT. OVERDREDGE= 900 C.Y.
 TOTAL= 1,750 C.Y.

* DREDGE QUANTITIES: STA. 9+00 - STA. 13+00
 MAINTENANCE DREDGING TO -4.4' (MLW)
 DREDGE AREA= 11,569 S.F.
 DREDGE VOLUME= 195 C.Y.
 TOTAL= 195 C.Y.

* DREDGE QUANTITIES: STA. 13+00 - STA. 16+00
 MAINTENANCE DREDGING TO -5' (MLW)
 DREDGE AREA= 13,370 S.F.
 DREDGE VOLUME= 918 C.Y.
 TOTAL= 918 C.Y.

DREDGE QUANTITIES: STA. 16+00 - STA. 18+61
 MAINTENANCE DREDGING TO -6' (MLW)
 DREDGE AREA= 11,414 S.F.
 DREDGE VOLUME= 985 C.Y.
 1 FT. OVERDREDGE= 425 C.Y.
 TOTAL= 1,410 C.Y.

DREDGE QUANTITIES: STA. 18+61 - STA. 23+00
 MAINTENANCE DREDGING TO -5' (MLW)
 DREDGE AREA= 22,585 S.F.
 DREDGE VOLUME= 2,142 C.Y.
 1 FT. OVERDREDGE= 836 C.Y.
 TOTAL= 2,978 C.Y.

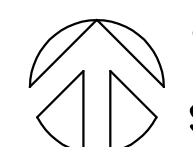
DREDGE QUANTITIES: STA. 23+00 - STA. 25+50
 MAINTENANCE DREDGING TO -4' (MLW)
 DREDGE AREA= 18,815 S.F.
 DREDGE VOLUME= 1,575 C.Y.
 1 FT. OVERDREDGE= 700 C.Y.
 TOTAL= 2,275 C.Y.

* DEPTH NOT TO EXCEED INDICATED MAINTENANCE DREDGING, INCLUDING OVERDREDGE.

ESTIMATED DREDGING VOLUMES	
DREDGING TO -4' MLW	1,575 CY
DREDGING TO -4.4' MLW	195 CY
DREDGING TO -5' MLW	3,910 CY
DREDGING TO -6' MLW	985 CY
OVERDREDGE TO -1'	2,861 CY
TOTAL	9,526 CY

NOTES:

- REFER TO SHEET G-2 FOR GENERAL, SURVEY DREDGING AND TURBIDITY CONTROL NOTES.
- REFER TO SHEET G-4 FOR GEOTECHNICAL INVESTIGATION PLAN.
- REFER TO SHEETS CM-2 THROUGH CM-3 FOR DREDGE CROSS SECTIONS.
- REFER TO SHEET CM-5 FOR DREDGE MATERIAL HANDLING PLAN

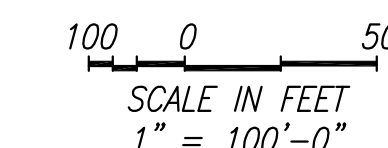


PROPOSED MAINTENANCE DREDGING PLAN

SCALE: 1" = 100'

LEGEND:

① DREDGE CONTROL POINT



NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (24"x36")

ISSUE	DATE	DESCRIPTION
1	01/29/08	PERMIT SET

PROJECT NO:	220200.04
DATUM:	MLW
DRAWN BY:	JDB
CHECKED BY:	JMB

ENGINEER OF RECORD

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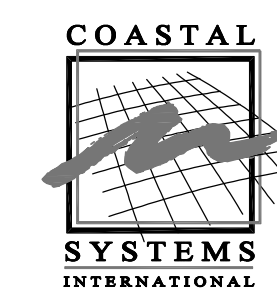
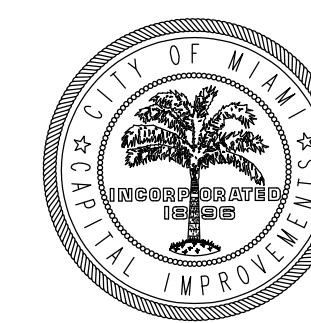
T.K. BLANKENSHIP
FL. REG. # 55910

PROPOSED
MAINTENANCE
DREDGING PLAN

CM-1

5 OF 10 SHEETS

**DINNER KEY
MAINTENANCE
DREDGING
CITY OF MIAMI**



COASTAL SYSTEMS INTERNATIONAL, INC.

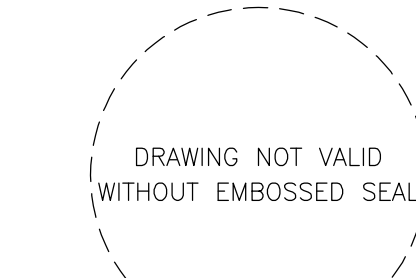
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CONSULTANTS

1 01/29/08 PERMIT SET

PROJECT NO:	220200.04
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DRAWN BY:	JDB
CHECKED BY:	JMB

ENGINEER OF RECORD



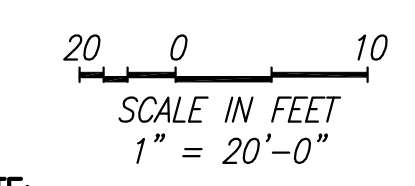
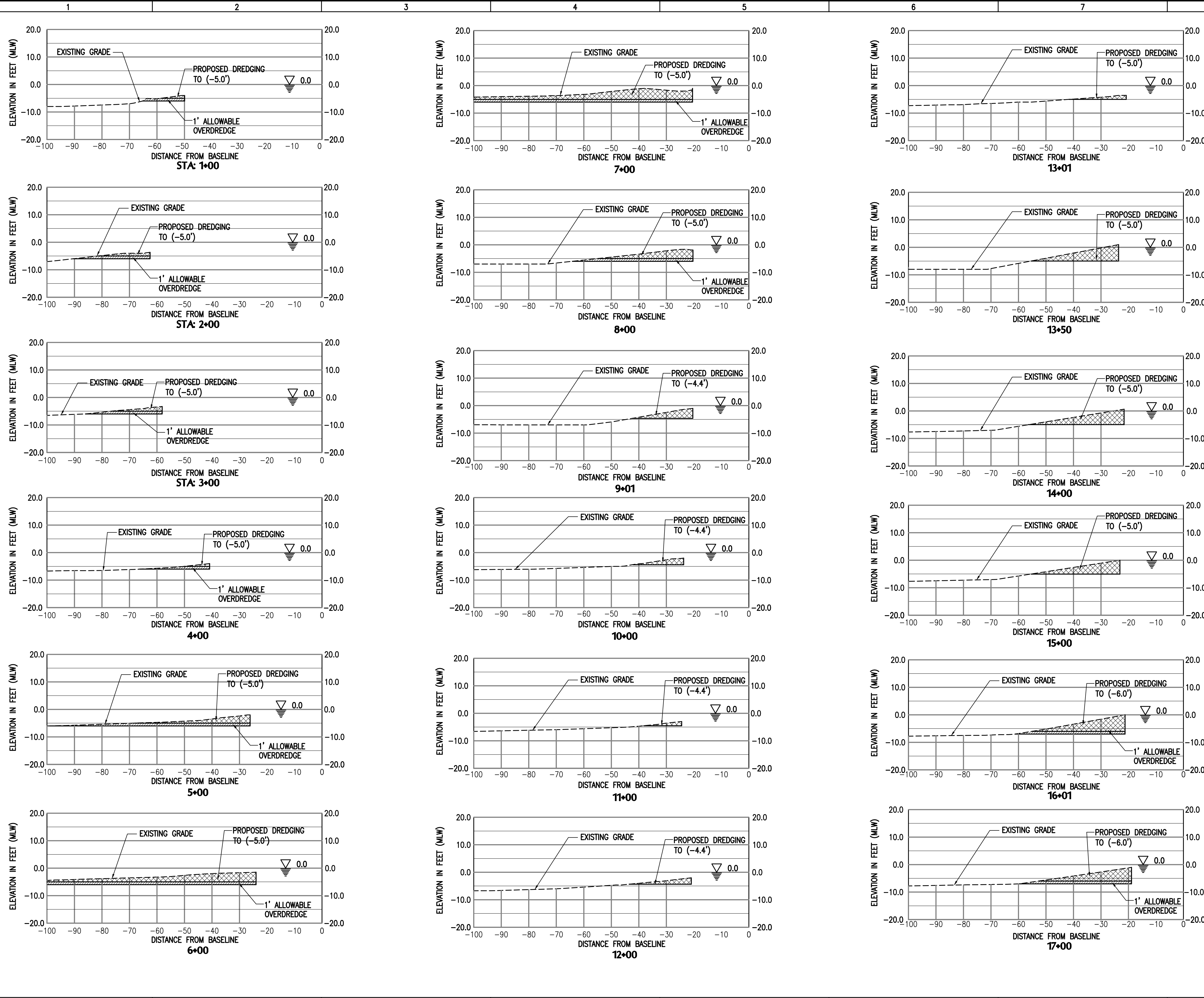
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**DREDGING
SECTIONS - 1**

CM-2

6 OF 10 SHEETS

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NOTE:
ALL SCALES INDICATED PERTAIN TO
FULL SIZE DRAWINGS (24"x36")

