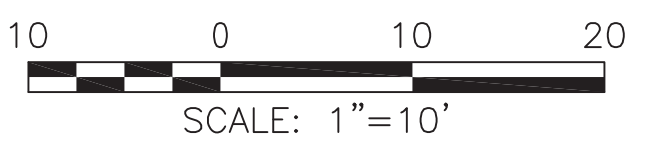
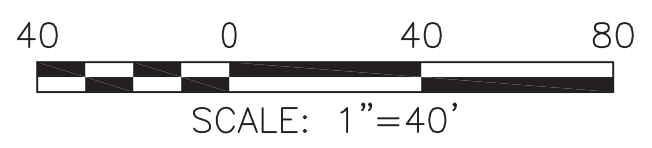


**NOTE:**  
 1. CONSTRUCT TEMPORARY CHAIN LINK FENCE TO IDENTIFY CONSTRUCTION AREA TO DEMOLISH THE (E) PUMP STATION AND CONSTRUCT (N) PUMP STATION.

**PLAN**  
 SCALE: 1"=10'



**PLAN**  
 SCALE: 1"=40'





PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,472

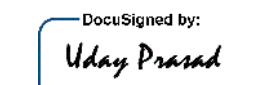
NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
 DEPARTMENT OF ENGINEERING

DESIGNED: DATE:	J.FLORES 12/2023	PUBLIC WORKS APPROVALS	L.WONG 02/01/2024
DRAWN: DATE:	A.K./A.H. 12/2023	SECTION MANAGER	I.DHAPA 02/14/2024
CHECKED: DATE:	C.LINH 12/2023	DEPUTY BUREAU MANAGER	P.RIVERA 03/18/2024
		BUREAU MANAGER	

APPROVED BY  
 SAN FRANCISCO PORT COMMISSION  
 DATE: 5/16/2024  
  
 CHIEF HARBOR ENGINEER

SCALE:  
 AS NOTED  
 REV. NO.  
 0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**AMADOR STREET PUMP STATION**  
**AVAILABLE CONSTRUCTION AREA INSIDE CEMEX AND**  
**TEMP CONSTRUCTION STAGING & SOIL STORAGE PLAN**

CONTRACT NO.  
 2852  
 PORT DRAWING NO.  
 19183.1-4043-G  
 SHEET NO.  
 G-4  
 SHEET OF SHEETS  
 4 OF 72

### LEGEND

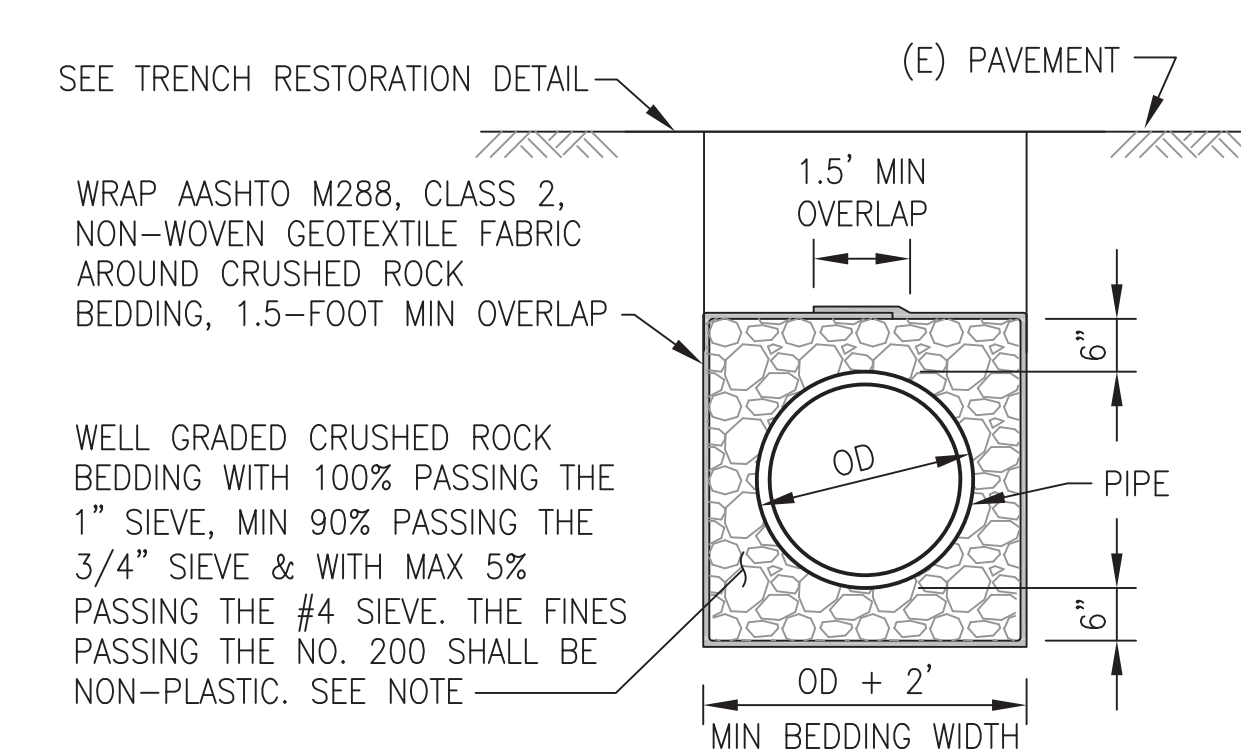
	EXISTING MH TO REMAIN
	EXISTING CB, SWI, CO TO REMAIN
	EXISTING SIDE SEWER AND AIR VENT TO REMAIN
<u>SIZE &amp; TYPE</u>	EXISTING SEWER OR CULVERT
<u>SIZE &amp; TYPE</u>	NEW FORCE MAIN
<u>SIZE &amp; TYPE</u>	NEW SEWER OR CULVERT
	NEW GRAVITY SEWER MH PER SFDPW STD PLAN 87,181
	NEW FORCE MAIN MH PER SFDPW STD PLAN 87,181 AND DETAILS <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> H-9 H-9
	(N) INSERTION PIT
	EXISTING FENCE
	DIRECTION OF FLOW
	EXISTING TRACKS
	NEW STEEL CASING
	MORTAR EXISTING MH
	ABANDON EXISTING MH
	ABANDON EXISTING CB, SWI
	EXISTING MH
	NEW MH
	MORTAR (E) MH
	REPLACE EXISTING MH
	NEW SS PER SFDPW STD PLAN 87,196
	6"Ø OR 8"Ø SS CONNECTION
	CONNECT PER SFDPW STD PLAN 87,197
	PLUG EXISTING FACILITIES
	PLUG AND FILL EXISTING FACILITIES W/ SLURRY GROUT
	APPROXIMATE PAVEMENT SURFACE
	(E) ELECTRIC POLE
	(E) GATE POST

### ABBREVIATIONS

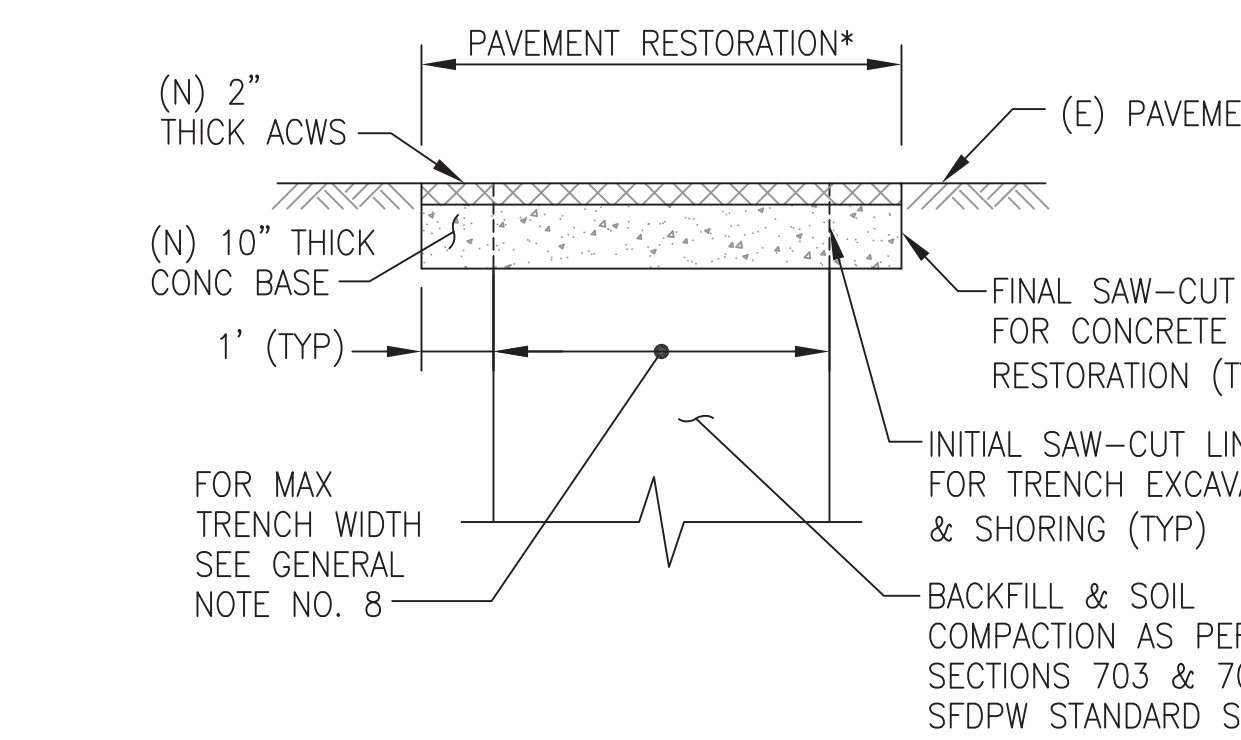
±	PLUS OR MINUS
ACWS	ASPHALT CONCRETE WEARING SURFACE
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
AWSS	AUXILIARY WATER SUPPLY SYSTEM
CB	CATCHBASIN
CDF	CONTROLLED DENSITY FILL
CI	CAST IRON
CIP	CAST IRON PIPE
CIPL	CURED IN-PLACE LINER
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUATION
DET	DETAIL
DI	DUCTILE IRON
DIA OR Ø	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
(E)	EXISTING
E	EASTING
EL	ELEVATION
F&C	FRAME AND COVER
FL	FLOW LINE
FM	FORCE MAIN
FRP	FIBERGLASS REINFORCED PIPE
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
INV	INVERT
ISP	IRON STONE PIPE
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
(N)	NEW
N	NORTHING
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFSET
PL	PROPERTY LINE
PEP	POLYETHYLENE PIPE
PI	POINT OF INTERSECTION
PS	PUMP STATION
PSI	POUNDS PER SQUARE INCH
RCP	REINFORCED CONCRETE PIPE
SDR	STANDARD DIMENSION RATIO
SF	SQUARE FEET
S.F.	SAN FRANCISCO
SFDPW	SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS
SL	SLOPE
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SWI	STORM WATER INLET
TEMP	TEMPORARY
(TYP)	TYPICAL
VERT	VERTICAL
VCP	VITRIFIED CLAY PIPE
W/	WITH
W/O	WITHOUT

### GENERAL NOTES

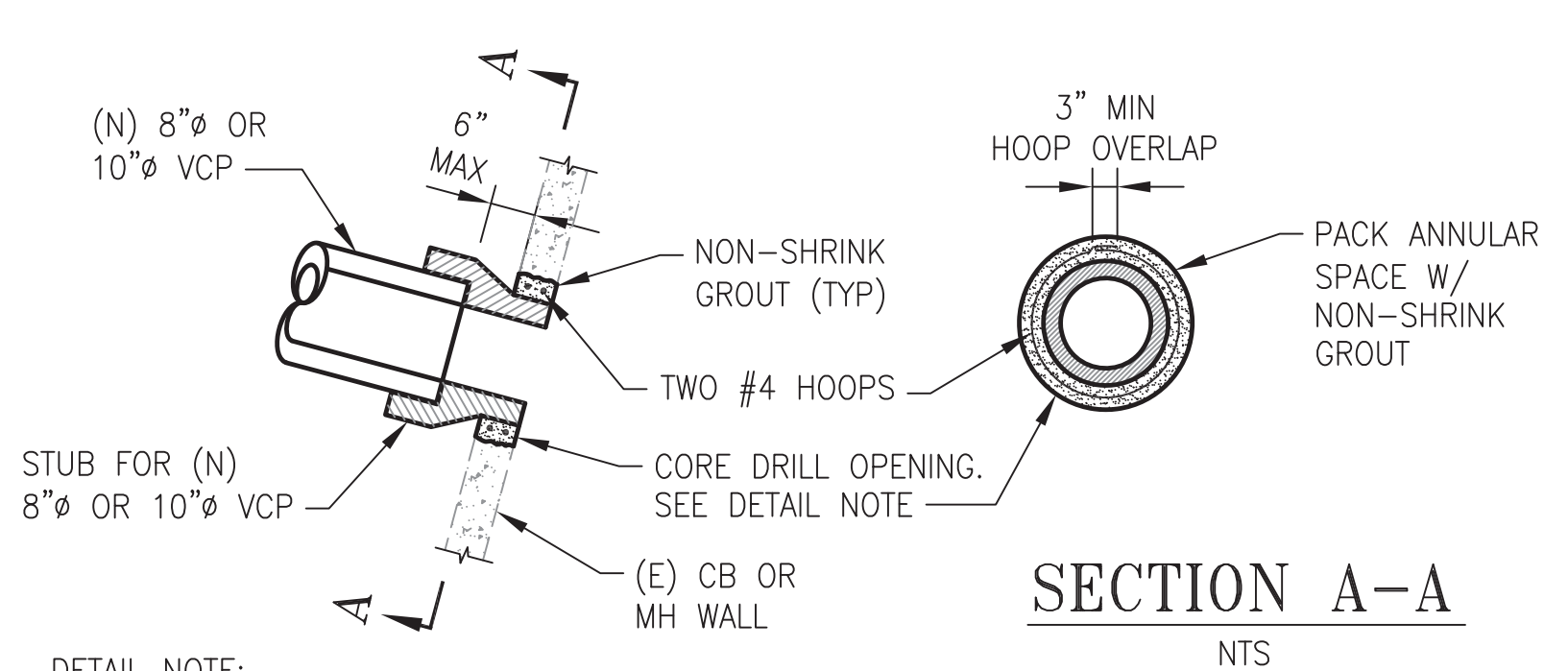
- ALL GROUND SURFACE ELEVATIONS AND INVERT ELEVATIONS TO BE CONFORMED ARE APPROXIMATE.
- ELEVATIONS ARE IN REFERENCE TO S.F. CITY DATUM. S.F. CITY DATUM IS APPROXIMATELY 11.35 FEET HIGHER THAN NAVD88 DATUM.
- STATION AND OFFSET MEASUREMENTS ARE BASED ON ALIGNMENT SHOWN ON G-3 DWG.
- IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS AND PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.
- AT THE TIME THIS CONTRACT IS BID, THE CONTRACTOR SHALL POSSESS A STATE OF CALIFORNIA CLASS "A" GENERAL ENGINEERING CONTRACTOR'S LICENSE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE SAN FRANCISCO PORT'S PIER 1 OFFICE.
- THE CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND BENCHMARKS LOCATED WITHIN THE CONTRACT LIMIT. CITY MONUMENTS LOCATED WITHIN 20 FEET OF TRENCH MUST BE REFERENCED PRIOR TO ANY DEMOLITION, AND A CORNER RECORD MUST BE FILED WITH THE COUNTY SURVEYOR'S OFFICE BY CONTACTING BUREAU OF STREET-USE AND MAPPING AT (628) 271-2000. THE MONUMENTS MUST BE REVISITED AFTER CONSTRUCTION HAS BEEN COMPLETED TO VERIFY THAT NO MOVEMENT HAS OCCURRED. IF MONUMENTS ARE NOT REFERENCED PRIOR TO CONSTRUCTION, THE CITY WILL CHARGE \$10,000 A PIECE TO THE CONTRACTOR FOR REESTABLISHING THE MONUMENT.
- MAXIMUM TRENCH WIDTH SHALL BE THE LARGER OUTSIDE DIMENSION OF THE NEW OR EXISTING SEWER/STRUCTURE PLUS 1.5 FEET ON EACH SIDE.
- RIM ELEVATIONS OF PROPOSED SEWER MANHOLES SHALL CONFORM TO EXISTING ROADWAY ELEVATIONS.
- DUCTILE IRON PIPE (DIP) SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C153/A21.53, ANSI/AWWA C110/A21.10, AND ANSI/AWWA C115/A21.15.
- CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF (E) FORCE MAIN IN THE FIELD.
- FOR MANHOLE DETAILS NOT SHOWN, SEE SFDPW STD PLAN 87,181.
- FLANGED PIPES, FITTINGS, GASKETS, AND ALL COMPONENTS OF JOINT RESTRAINT HARNESS AND WALL SLEEVES SHALL BE RATED FOR 100 PSI MINIMUM OPERATING PRESSURE.
- ALL STORM DRAIN AND SEWER MAINS ON H-DRAWINGS ARE GRAVITY UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL SEAL WITH GROUT THE SECTION JOINTS OF EXISTING CATCH BASINS, STORM WATER INLETS AND MANHOLES AND JOINTS OF EXISTING MANHOLE COVER FRAMES TO GRADE RINGS WITHIN THE SEWER AND DRAINAGE WORK LIMITS, AS INCIDENTAL WORK, AND AS DIRECTED BY THE CITY REPRESENTATIVE.
- CONTRACTOR SHALL INSTALL CLEANOUTS ALONG THE NEW FORCE MAIN ALIGNMENT SPACED NO FURTHER THAN 100' APART, AND AT ALL BENDS, PER DETAIL 7 ON SHEET H-9, AND AS DIRECTED BY THE CITY REPRESENTATIVE.



**BEDDING DETAIL FOR HDPE PIPE** 2  
FOR OPEN-CUT HDPE INSTALLATION

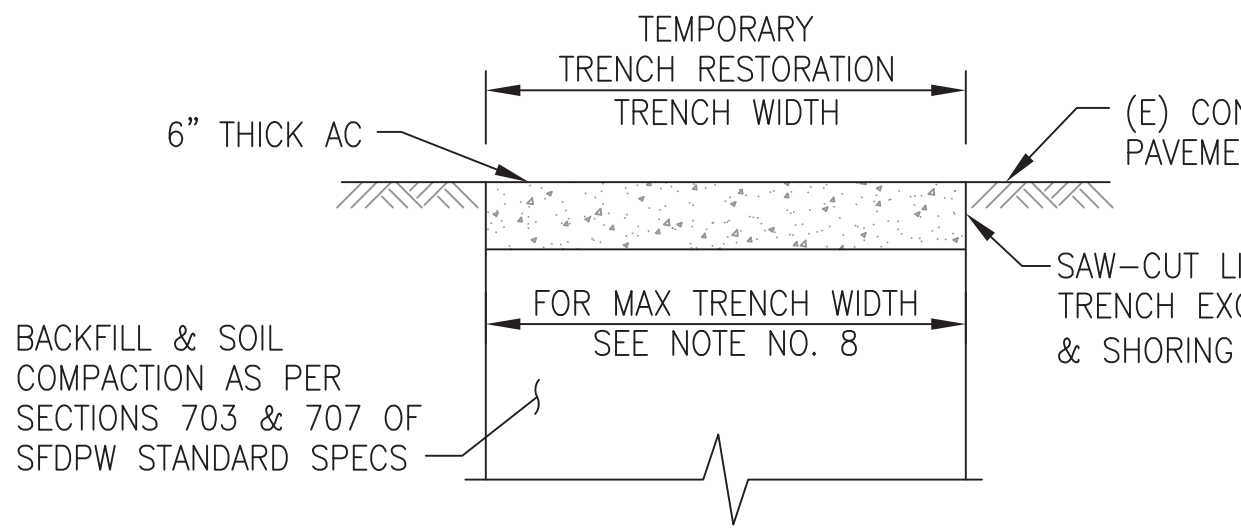


**TRENCH RESTORATION DETAIL** 3  
FOR ASPHALT STREET OUTSIDE OF PAVING PLANS LIMITS



**CB AND MH CONNECTION DETAIL** 1

DETAIL NOTE:  
CORE DRILL (E) CB OR MH WALL TO PROVIDE OPENING 4" LARGER THAN OD OF (N) 8"Ø OR 10"Ø VCP AND PACK ANNULAR SPACE W/ NON-SHRINK GROUT. VCP STUB SHALL BE FLUSH W/ THE INSIDE FACE OF THE MH OR CB WALL.



**TEMPORARY TRENCH RESTORATION DETAIL** 4  
FOR LOCATIONS WHERE PAVEMENT RECONSTRUCTION WITH 2" THICK ACWS ON 10" THICK CONC BASE IS REQUIRED PER PAVING PLANS

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,473

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS
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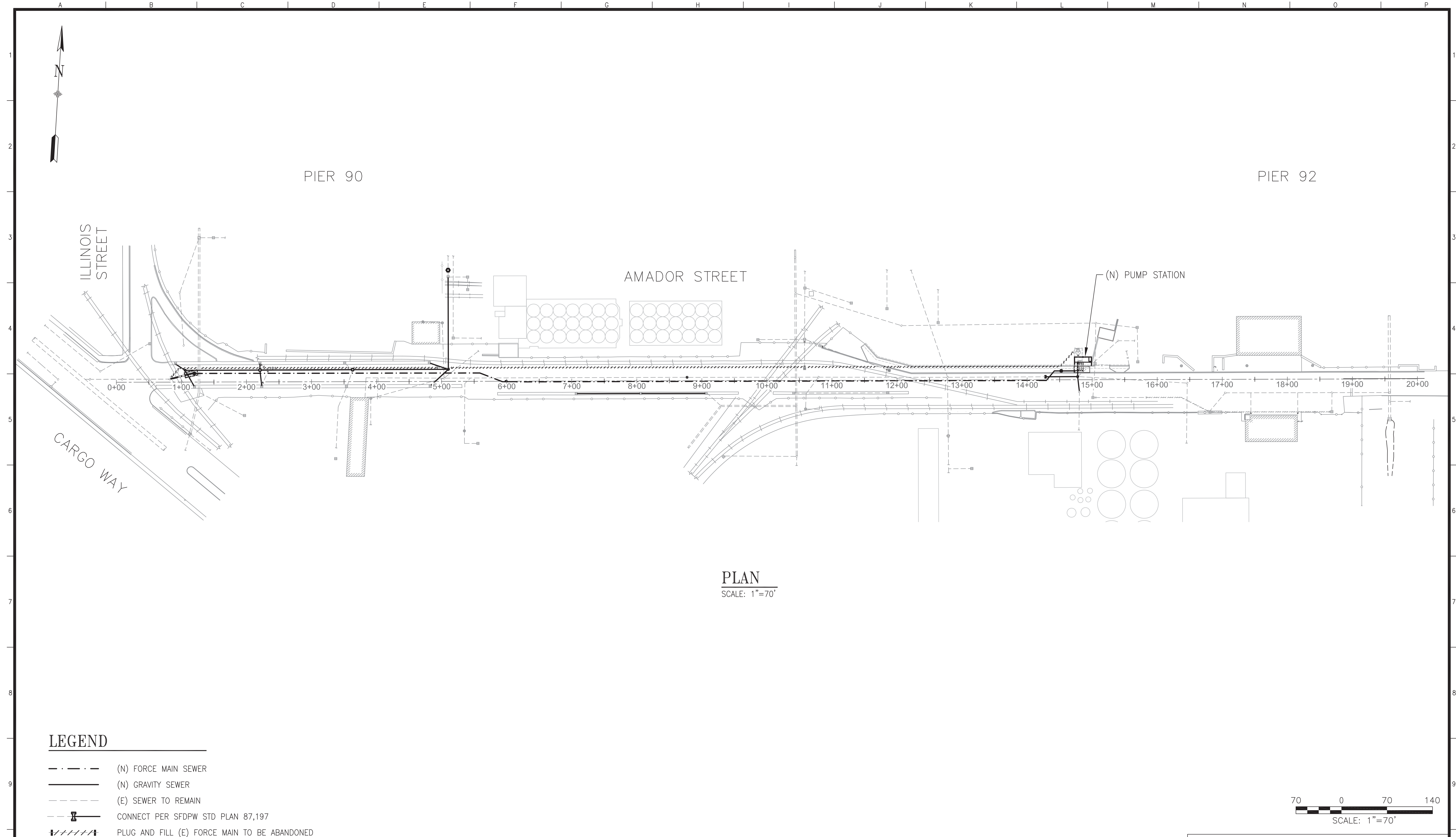
**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

DESIGNED: DATE:	J.FLORES 12/2023
DRAWN: DATE:	A.K./A.H. 12/2023
CHECKED: DATE:	C.LINH 12/2023

PUBLIC WORKS APPROVALS	
L.WONG 02/01/2024	SECTION MANAGER DATE:
I.DHAPA 02/14/2024	DEPUTY BUREAU MANAGER DATE:
P.RIVERA 03/18/2024	BUREAU MANAGER DATE:

APPROVED BY	SAN FRANCISCO PORT COMMISSION
DATE:	5/16/2024
DocuSigned by:	Uday Prasad
CHIEF HARBOR ENGINEER	

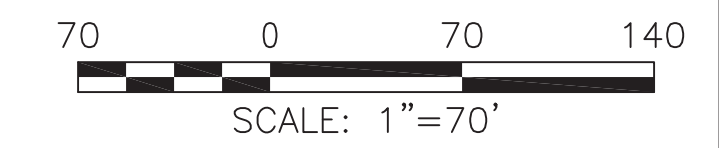
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REV. NO.	0
<b>AMADOR STREET INFRASTRUCTURE IMPROVEMENTS</b>	
<b>LEGEND, ABBREVIATIONS, GENERAL NOTES AND DETAILS FOR SEWER WORK</b>	
CONTRACT NO.	2852
PORT DRAWING NO.	19184-4043-H
SHEET NO.	H-G
SHEET OF SHEETS	5 OF 72



**PLAN**  
SCALE: 1"=70'

**LEGEND**

- (N) FORCE MAIN SEWER
- (N) GRAVITY SEWER
- - - (E) SEWER TO REMAIN
- - [T] - - CONNECT PER SFDPW STD PLAN 87,197
- ||||| PLUG AND FILL (E) FORCE MAIN TO BE ABANDONED



PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,474

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION  
& FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**

**PORT OF SAN FRANCISCO**

**DEPARTMENT OF ENGINEERING**

DESIGNED: J.FLORES	DATE: 12/2023	PUBLIC WORKS APPROVALS	SECTION MANAGER: L.WONG	DATE: 02/01/2024
DRAWN: A.K./A.H.	DATE: 12/2023	DEPUTY BUREAU MANAGER: I.DHAPA	DATE: 02/14/2024	
CHECKED: C.LINH	DATE: 12/2023	BUREAU MANAGER: P.RIVERA	DATE: 03/18/2024	

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 5/16/2024

DocuSigned by:  
*Uday Prasad*  
19185-4043-H  
CHIEF HARBOR ENGINEER

SCALE: AS NOTED

REV. NO. 0

**AMADOR STREET  
INFRASTRUCTURE IMPROVEMENTS**

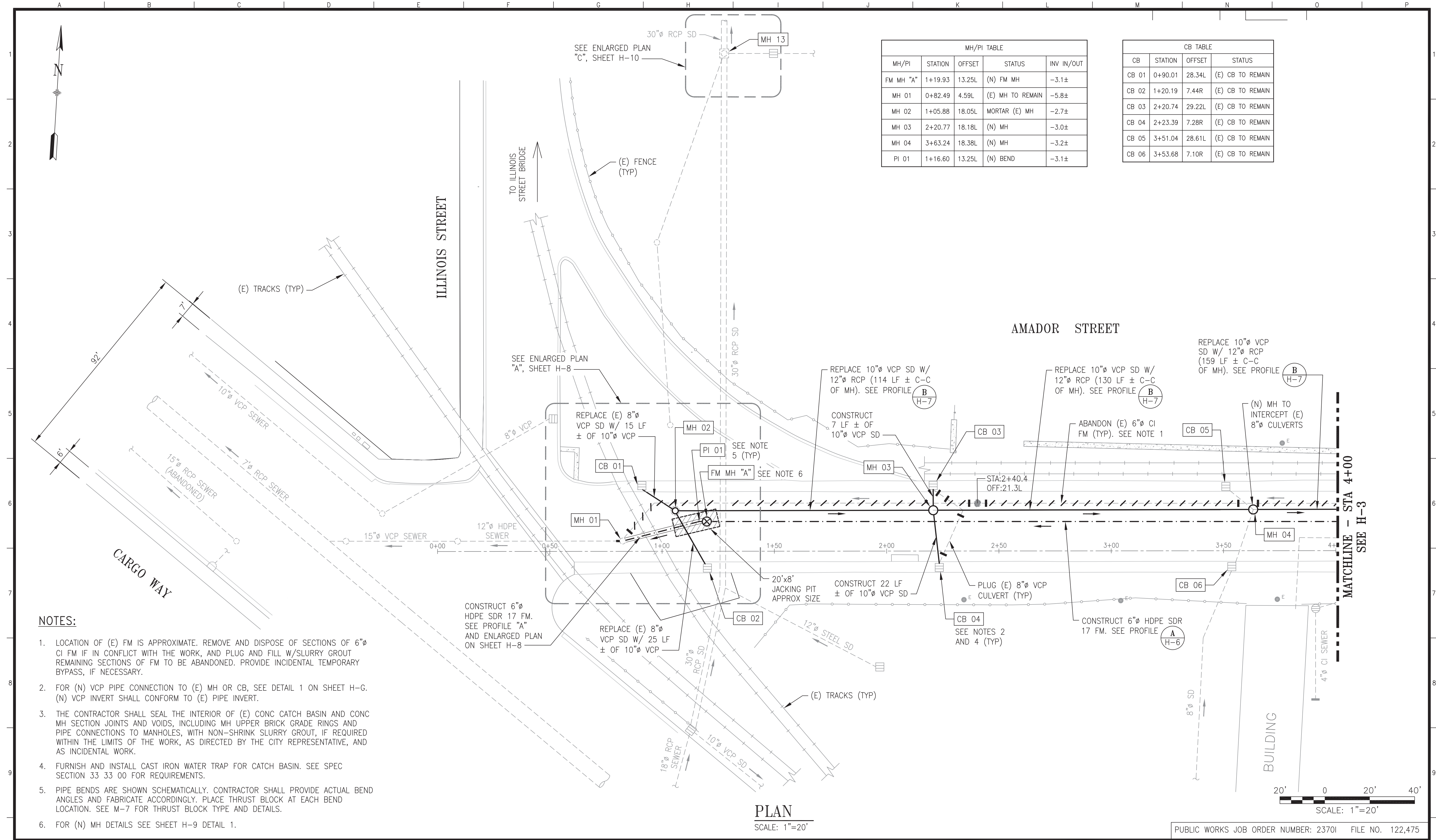
**AMADOR STREET SEWER REPLACEMENT  
STA 0+00 TO STA 20+00  
SITE PLAN**

CONTRACT NO. 2852

PORT DRAWING NO. 19185-4043-H

SHEET NO. H-1

SHEET OF SHEETS 6 OF 72



MH/PI TABLE				
MH/PI	STATION	OFFSET	STATUS	INV IN/OUT
FM MH "A"	1+19.93	13.25L	(N) FM MH	-3.1±
MH 01	0+82.49	4.59L	(E) MH TO REMAIN	-5.8±
MH 02	1+05.88	18.05L	MORTAR (E) MH	-2.7±
MH 03	2+20.77	18.18L	(N) MH	-3.0±
MH 04	3+63.24	18.38L	(N) MH	-3.2±
PI 01	1+16.60	13.25L	(N) BEND	-3.1±

CB TABLE			
CB	STATION	OFFSET	STATUS
CB 01	0+90.01	28.34L	(E) CB TO REMAIN
CB 02	1+20.19	7.44R	(E) CB TO REMAIN
CB 03	2+20.74	29.22L	(E) CB TO REMAIN
CB 04	2+23.39	7.28R	(E) CB TO REMAIN
CB 05	3+51.04	28.61L	(E) CB TO REMAIN
CB 06	3+53.68	7.10R	(E) CB TO REMAIN

- NOTES:**
1. LOCATION OF (E) FM IS APPROXIMATE. REMOVE AND DISPOSE OF SECTIONS OF 6" CI FM IF IN CONFLICT WITH THE WORK, AND PLUG AND FILL W/SLURRY GROUT REMAINING SECTIONS OF FM TO BE ABANDONED. PROVIDE INCIDENTAL TEMPORARY BYPASS, IF NECESSARY.
  2. FOR (N) VCP PIPE CONNECTION TO (E) MH OR CB, SEE DETAIL 1 ON SHEET H-G. (N) VCP INVERT SHALL CONFORM TO (E) PIPE INVERT.
  3. THE CONTRACTOR SHALL SEAL THE INTERIOR OF (E) CONC CATCH BASIN AND CONC MH SECTION JOINTS AND VOIDS, INCLUDING MH UPPER BRICK GRADE RINGS AND PIPE CONNECTIONS TO MANHOLES, WITH NON-SHRINK SLURRY GROUT, IF REQUIRED WITHIN THE LIMITS OF THE WORK, AS DIRECTED BY THE CITY REPRESENTATIVE, AND AS INCIDENTAL WORK.
  4. FURNISH AND INSTALL CAST IRON WATER TRAP FOR CATCH BASIN. SEE SPEC SECTION 33 33 00 FOR REQUIREMENTS.
  5. PIPE BENDS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL PROVIDE ACTUAL BEND ANGLES AND FABRICATE ACCORDINGLY. PLACE THRUST BLOCK AT EACH BEND LOCATION. SEE M-7 FOR THRUST BLOCK TYPE AND DETAILS.
  6. FOR (N) MH DETAILS SEE SHEET H-9 DETAIL 1.

**PLAN**  
SCALE: 1"=20'

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,475

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS	
8216-344-1	
7040-344-4	
8108-96-1	
8109-96-1	
5578-344-1	
5579-344-1	
7669-344-1	

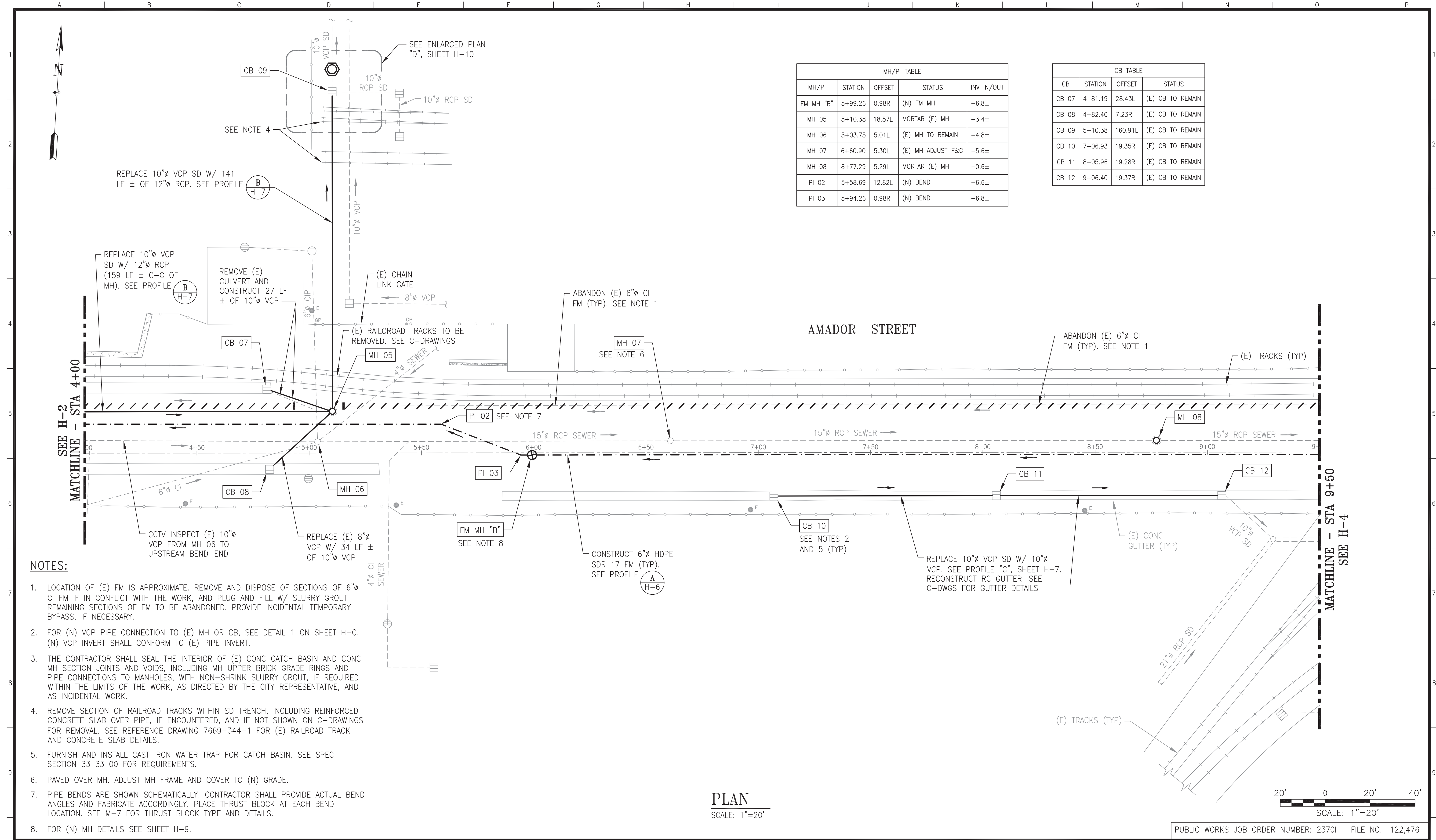
**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

DESIGNED: DATE:	J.FLORES 12/2023
DRAWN: DATE:	
A.K./A.H. DATE:	12/2023
CHECKED: DATE:	12/2023

PUBLIC WORKS APPROVALS	
L.WONG 02/01/2024	SECTION MANAGER DATE:
I.DHAPA 02/14/2024	DEPUTY BUREAU MANAGER DATE:
P.RIVERA 03/18/2024	BUREAU MANAGER DATE:

APPROVED BY	SAN FRANCISCO PORT COMMISSION
DATE:	5/16/2024
Uday Prasad	CHIEF HARBOR ENGINEER

SCALE:	AS NOTED	<b>AMADOR STREET</b> <b>INFRASTRUCTURE IMPROVEMENTS</b> <b>AMADOR STREET SEWER REPLACEMENT</b> <b>STA 0+00 TO STA 4+00</b> <b>PLAN</b>	CONTRACT NO.	2852
REV. NO.	0		PORT DRAWING NO.	19186-4043-H
			SHEET NO.	H-2
			SHEET OF SHEETS	7 OF 72

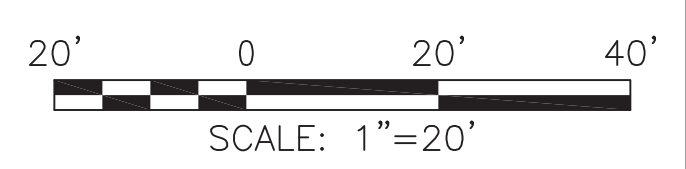


MH/PI TABLE				
MH/PI	STATION	OFFSET	STATUS	INV IN/OUT
FM MH "B"	5+99.26	0.98R	(N) FM MH	-6.8±
MH 05	5+10.38	18.57L	MORTAR (E) MH	-3.4±
MH 06	5+03.75	5.01L	(E) MH TO REMAIN	-4.8±
MH 07	6+60.90	5.30L	(E) MH ADJUST F&C	-5.6±
MH 08	8+77.29	5.29L	MORTAR (E) MH	-0.6±
PI 02	5+58.69	12.82L	(N) BEND	-6.6±
PI 03	5+94.26	0.98R	(N) BEND	-6.8±

CB TABLE			
CB	STATION	OFFSET	STATUS
CB 07	4+81.19	28.43L	(E) CB TO REMAIN
CB 08	4+82.40	7.23R	(E) CB TO REMAIN
CB 09	5+10.38	160.91L	(E) CB TO REMAIN
CB 10	7+06.93	19.35R	(E) CB TO REMAIN
CB 11	8+05.96	19.28R	(E) CB TO REMAIN
CB 12	9+06.40	19.37R	(E) CB TO REMAIN

- NOTES:**
- LOCATION OF (E) FM IS APPROXIMATE. REMOVE AND DISPOSE OF SECTIONS OF 6" CI FM IF IN CONFLICT WITH THE WORK, AND PLUG AND FILL W/ SLURRY GROUT REMAINING SECTIONS OF FM TO BE ABANDONED. PROVIDE INCIDENTAL TEMPORARY BYPASS, IF NECESSARY.
  - FOR (N) VCP PIPE CONNECTION TO (E) MH OR CB, SEE DETAIL 1 ON SHEET H-G. (N) VCP INVERT SHALL CONFORM TO (E) PIPE INVERT.
  - THE CONTRACTOR SHALL SEAL THE INTERIOR OF (E) CONC CATCH BASIN AND CONC MH SECTION JOINTS AND VOIDS, INCLUDING MH UPPER BRICK GRADE RINGS AND PIPE CONNECTIONS TO MANHOLES, WITH NON-SHRINK SLURRY GROUT, IF REQUIRED WITHIN THE LIMITS OF THE WORK, AS DIRECTED BY THE CITY REPRESENTATIVE, AND AS INCIDENTAL WORK.
  - REMOVE SECTION OF RAILROAD TRACKS WITHIN SD TRENCH, INCLUDING REINFORCED CONCRETE SLAB OVER PIPE, IF ENCOUNTERED, AND IF NOT SHOWN ON C-DRAWINGS FOR REMOVAL. SEE REFERENCE DRAWING 7669-344-1 FOR (E) RAILROAD TRACK AND CONCRETE SLAB DETAILS.
  - FURNISH AND INSTALL CAST IRON WATER TRAP FOR CATCH BASIN. SEE SPEC SECTION 33 33 00 FOR REQUIREMENTS.
  - PAVED OVER MH. ADJUST MH FRAME AND COVER TO (N) GRADE.
  - PIPE BENDS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL PROVIDE ACTUAL BEND ANGLES AND FABRICATE ACCORDINGLY. PLACE THRUST BLOCK AT EACH BEND LOCATION. SEE M-7 FOR THRUST BLOCK TYPE AND DETAILS.
  - FOR (N) MH DETAILS SEE SHEET H-9.

**PLAN**  
SCALE: 1"=20'



PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,476

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS  
8216-344-1  
7040-344-4  
8108-96-1  
8109-96-1  
5578-344-1  
5579-344-1  
7669-344-1

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

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J.FLORES 12/2023	L.WONG 02/01/2024
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CHECKED: DATE:	DEPUTY BUREAU MANAGER DATE:
C.LINH 12/2023	P.RIVERA 03/18/2024
	BUREAU MANAGER DATE:

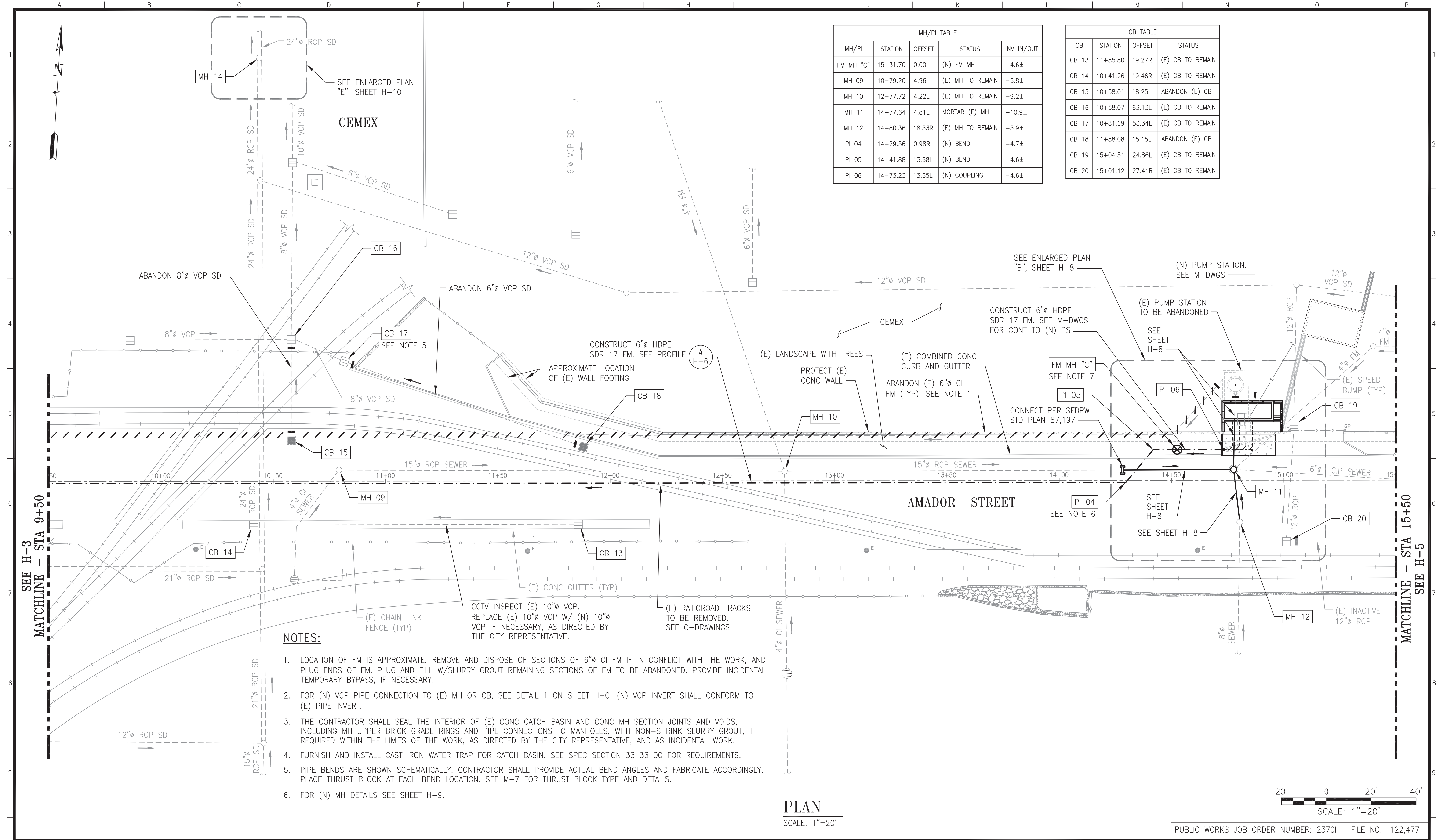
APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 5/16/2024

DocuSigned by:  
**Uday Prasad**  
CHIEF HARBOR ENGINEER

SCALE:	AS NOTED
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**  
**AMADOR STREET SEWER REPLACEMENT**  
**STA 4+00 TO STA 9+50**  
**PLAN**

CONTRACT NO.	2852
PORT DRAWING NO.	19187-4043-H
SHEET NO.	H-3
SHEET OF SHEETS	8 OF 72

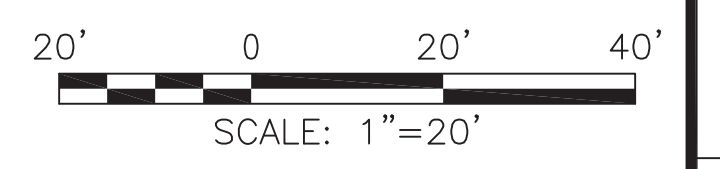


MH/PI TABLE				
MH/PI	STATION	OFFSET	STATUS	INV IN/OUT
FM MH "C"	15+31.70	0.00L	(N) FM MH	-4.6±
MH 09	10+79.20	4.96L	(E) MH TO REMAIN	-6.8±
MH 10	12+77.72	4.22L	(E) MH TO REMAIN	-9.2±
MH 11	14+77.64	4.81L	MORTAR (E) MH	-10.9±
MH 12	14+80.36	18.53R	(E) MH TO REMAIN	-5.9±
PI 04	14+29.56	0.98R	(N) BEND	-4.7±
PI 05	14+41.88	13.68L	(N) BEND	-4.6±
PI 06	14+73.23	13.65L	(N) COUPLING	-4.6±

CB TABLE			
CB	STATION	OFFSET	STATUS
CB 13	11+85.80	19.27R	(E) CB TO REMAIN
CB 14	10+41.26	19.46R	(E) CB TO REMAIN
CB 15	10+58.01	18.25L	ABANDON (E) CB
CB 16	10+58.07	63.13L	(E) CB TO REMAIN
CB 17	10+81.69	53.34L	(E) CB TO REMAIN
CB 18	11+88.08	15.15L	ABANDON (E) CB
CB 19	15+04.51	24.86L	(E) CB TO REMAIN
CB 20	15+01.12	27.41R	(E) CB TO REMAIN

- NOTES:**
- LOCATION OF FM IS APPROXIMATE. REMOVE AND DISPOSE OF SECTIONS OF 6" CI FM IF IN CONFLICT WITH THE WORK, AND PLUG ENDS OF FM. PLUG AND FILL W/SLURRY GROUT REMAINING SECTIONS OF FM TO BE ABANDONED. PROVIDE INCIDENTAL TEMPORARY BYPASS, IF NECESSARY.
  - FOR (N) VCP PIPE CONNECTION TO (E) MH OR CB, SEE DETAIL 1 ON SHEET H-G. (N) VCP INVERT SHALL CONFORM TO (E) PIPE INVERT.
  - THE CONTRACTOR SHALL SEAL THE INTERIOR OF (E) CONC CATCH BASIN AND CONC MH SECTION JOINTS AND VOIDS, INCLUDING MH UPPER BRICK GRADE RINGS AND PIPE CONNECTIONS TO MANHOLES, WITH NON-SHRINK SLURRY GROUT, IF REQUIRED WITHIN THE LIMITS OF THE WORK, AS DIRECTED BY THE CITY REPRESENTATIVE, AND AS INCIDENTAL WORK.
  - FURNISH AND INSTALL CAST IRON WATER TRAP FOR CATCH BASIN. SEE SPEC SECTION 33 33 00 FOR REQUIREMENTS.
  - PIPE BENDS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL PROVIDE ACTUAL BEND ANGLES AND FABRICATE ACCORDINGLY. PLACE THRUST BLOCK AT EACH BEND LOCATION. SEE M-7 FOR THRUST BLOCK TYPE AND DETAILS.
  - FOR (N) MH DETAILS SEE SHEET H-9.

**PLAN**  
SCALE: 1"=20'



PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,477

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS  
 8216-344-1  
 7040-344-4  
 8108-96-1  
 8109-96-1  
 5578-344-1  
 5579-344-1  
 7669-344-1

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

DESIGNED: DATE: J.FLORES 12/2023  
 DRAWN: DATE: A.K./A.H. 12/2023  
 CHECKED: DATE: C.LINH 12/2023

PUBLIC WORKS APPROVALS  
 L.WONG 02/01/2024  
 SECTION MANAGER DATE:  
 I.DHAPA 02/14/2024  
 DEPUTY BUREAU MANAGER DATE:  
 P.RIVERA 03/18/2024  
 BUREAU MANAGER DATE:

APPROVED BY  
 SAN FRANCISCO PORT COMMISSION  
 DATE: 5/16/2024  
 Uday Prasad  
 CHIEF HARBOR ENGINEER

SCALE: AS NOTED  
 REV. NO. 0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**  
**AMADOR STREET SEWER REPLACEMENT**  
**STA 9+50 TO STA 15+50**  
**PLAN**

CONTRACT NO. 2852  
 PORT DRAWING NO. 19188-4043-H  
 SHEET NO. H-4  
 SHEET OF SHEETS 9 OF 72

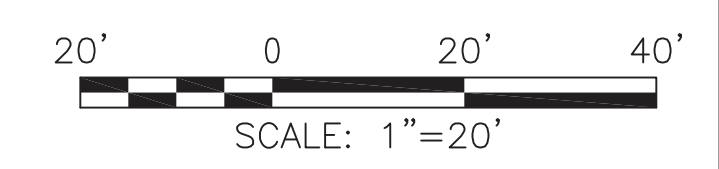
PIER 92

BUILDING

AMADOR STREET

BUILDING

PLAN  
SCALE: 1"=20'





PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,478

REFERENCE INFORMATION & FILE NO. OF SURVEYS


8216-344-1
7040-344-4
8108-96-1
8109-96-1
5578-344-1
5579-344-1
7669-344-1

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
 DEPARTMENT OF ENGINEERING

DESIGNED: J.FLORES	DATE: 12/2023	PUBLIC WORKS APPROVALS	L.WONG	DATE: 02/01/2024
DRAWN:	DATE:	SECTION MANAGER	I.DHAPA	DATE: 02/14/2024
A.K./A.H.	DATE: 12/2023	DEPUTY BUREAU MANAGER	P.RIVERA	DATE: 03/18/2024
CHECKED: C.LINH	DATE: 12/2023	BUREAU MANAGER		DATE:

APPROVED BY  
 SAN FRANCISCO PORT COMMISSION  
 DATE: 5/16/2024

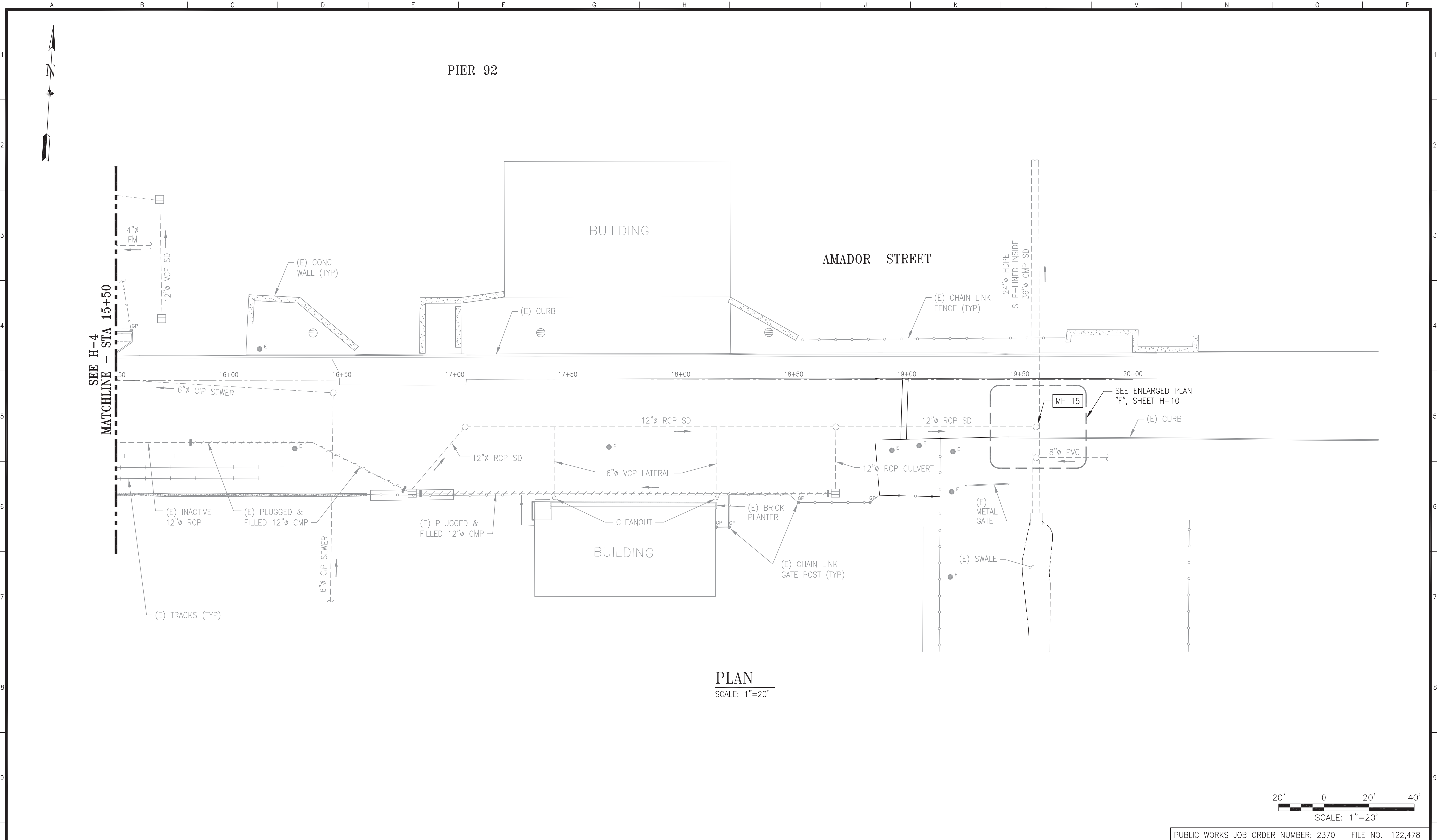
DocuSigned by:  
  
 Uday Prasad  
 CHIEF HARBOR ENGINEER

SCALE:	AS NOTED
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**AMADOR STREET SEWER REPLACEMENT**  
 STA 15+50 TO STA 20+00  
**PLAN**

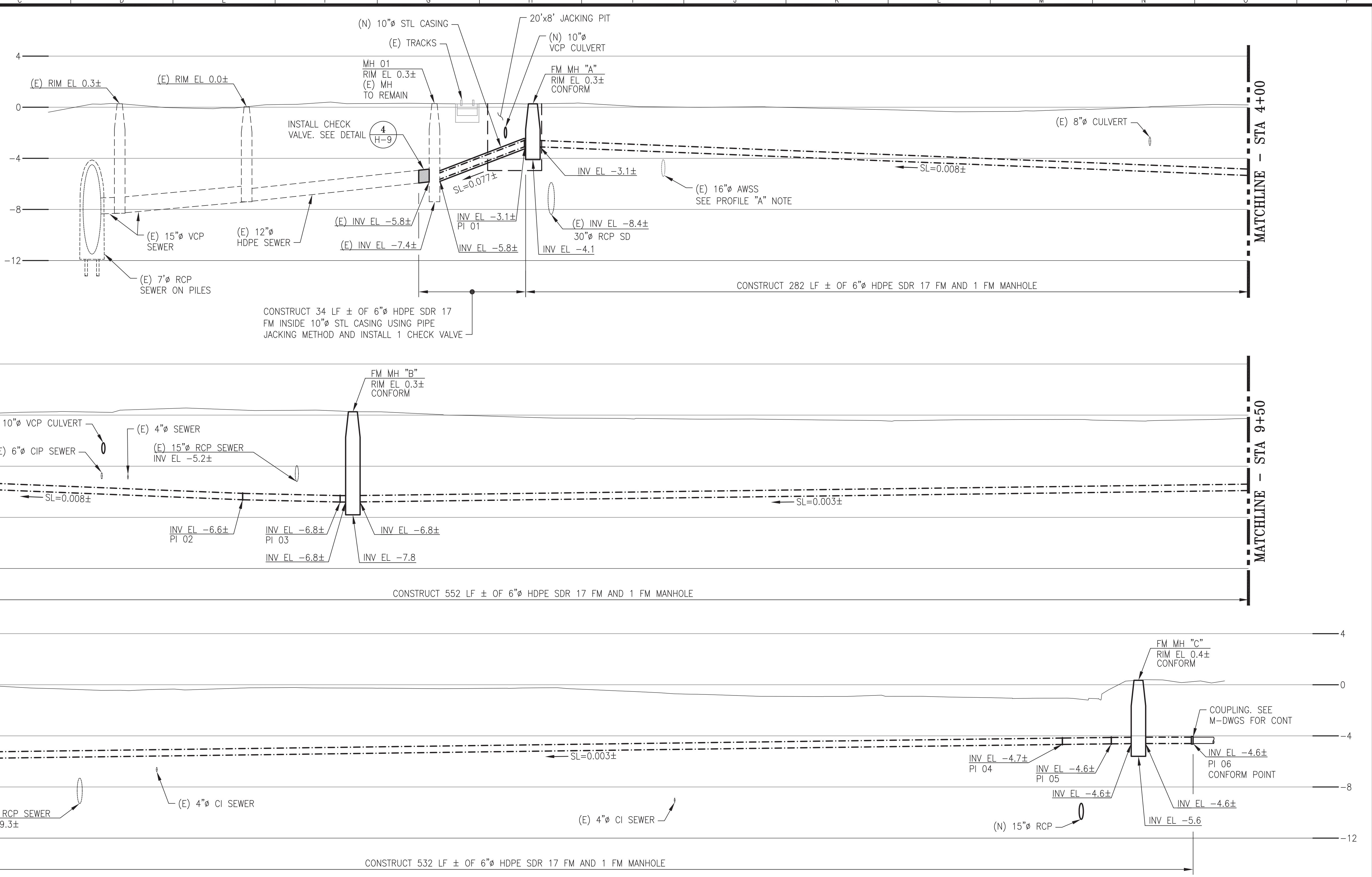
CONTRACT NO.	2852
PORT DRAWING NO.	19189-4043-H
SHEET NO.	H-5
SHEET OF SHEETS	10 OF 72



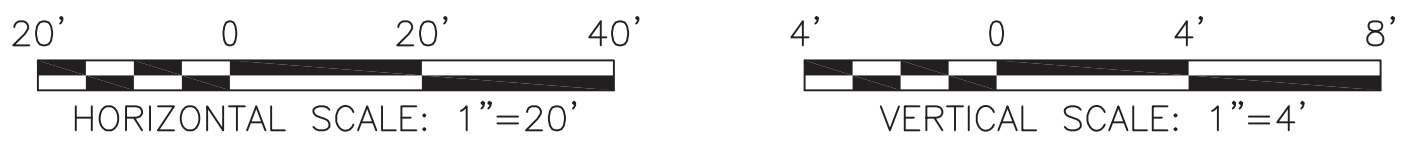
NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

**NOTE (PROFILE "A"):**

LOCATION AND DEPTH OF (E) 16-INCH AWSS IS APPROXIMATE. CONTRACTOR SHALL USE CAUTION WHILE EXCAVATING IN THE VICINITY OF THE AWSS FACILITIES. HAND DIGGING AT THIS LOCATION MAYBE APPROPRIATE UNTIL THE ACTUAL DEPTH OF THE AWSS LINE IS CONFIRMED.



**PROFILE A**  
SCALE: HORIZ 1"=20'  
VERT 1"=4'



PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,479

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
DEPARTMENT OF ENGINEERING

DESIGNED: J.FLORES	DATE: 12/2023	PUBLIC WORKS APPROVALS: L.WONG	DATE: 02/01/2024
DRAWN: A.K./A.H.	DATE: 12/2023	SECTION MANAGER: I.DHAPA	DATE: 02/14/2024
CHECKED: C.LINH	DATE: 12/2023	DEPUTY BUREAU MANAGER: P.RIVERA	DATE: 03/18/2024
		BUREAU MANAGER:	DATE:

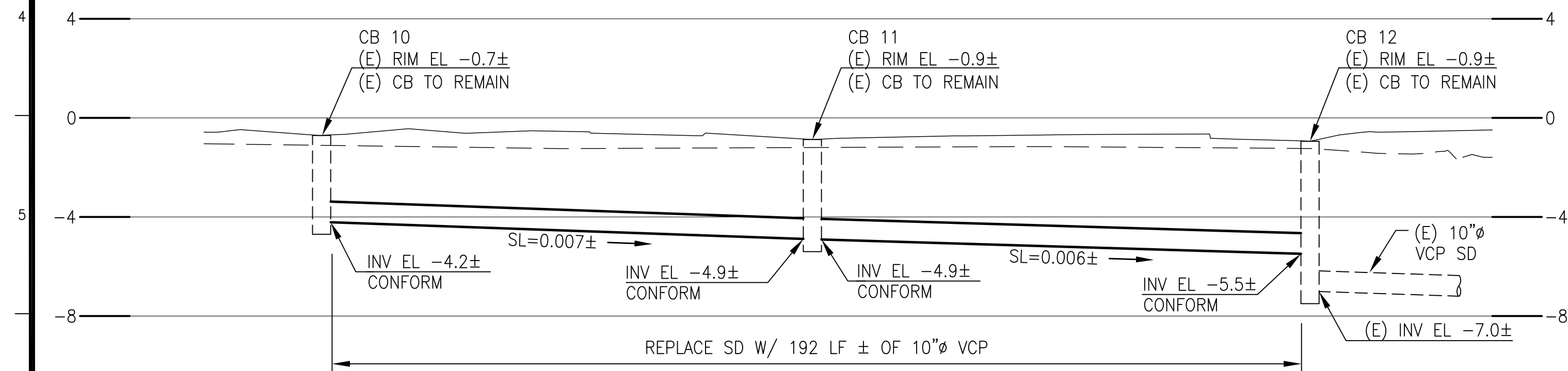
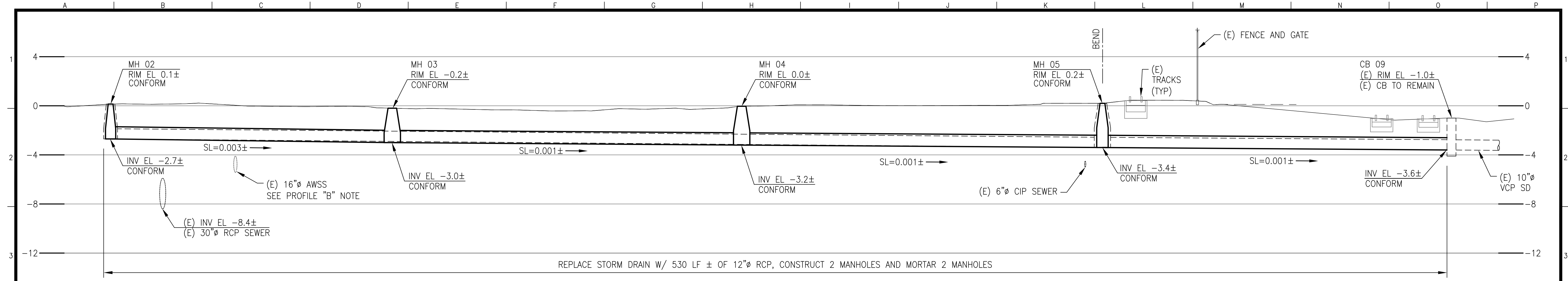
APPROVED BY SAN FRANCISCO PORT COMMISSION  
DATE: 5/16/2024  
Uday Prasad  
CHIEF HARBOR ENGINEER

SCALE: AS NOTED
REV. NO. 0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**  
**AMADOR STREET SEWER REPLACEMENT**  
**PROFILE A**

CONTRACT NO. 2852
PORT DRAWING NO. 19190-4043-H
SHEET NO. H-6
SHEET OF SHEETS 11 OF 72



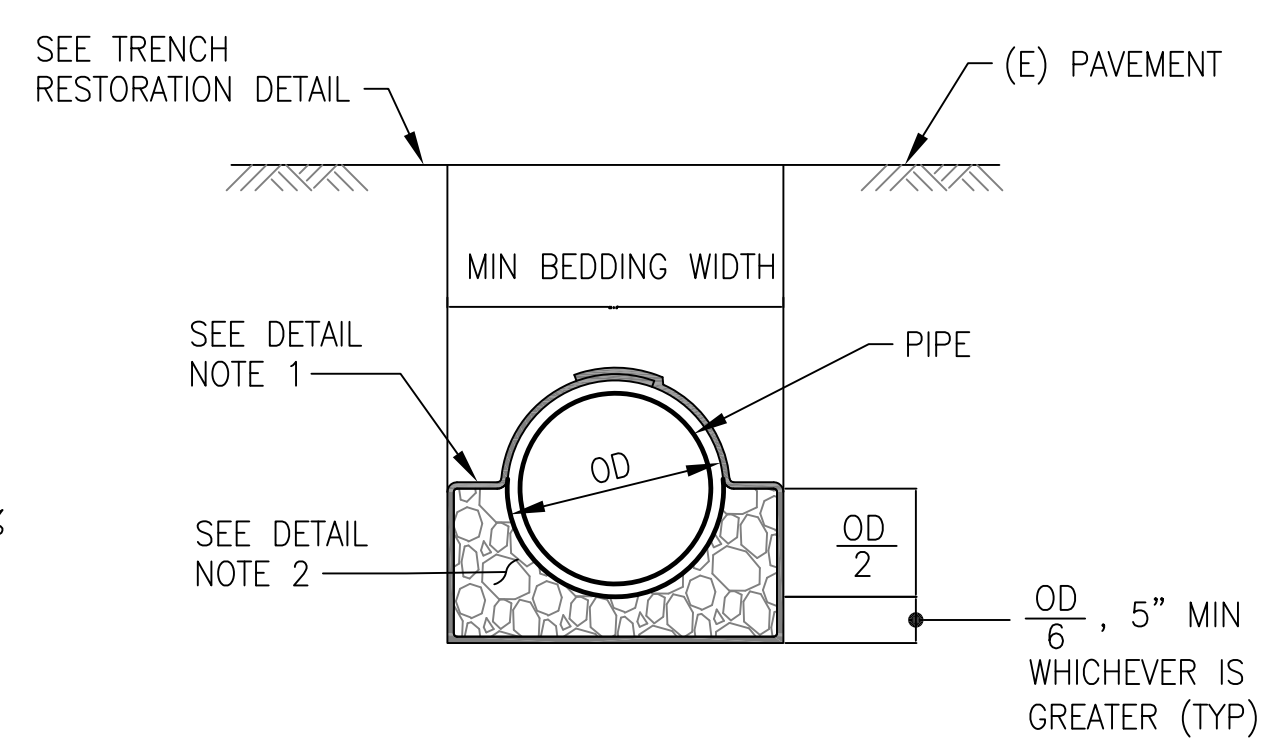


**NOTE (PROFILE "B"):**

LOCATION AND DEPTH OF (E) 16-INCH AWSS IS APPROXIMATE. CONTRACTOR SHALL USE CAUTION WHILE EXCAVATING IN THE VICINITY OF THE AWSS FACILITIES. HAND DIGGING AT THIS LOCATION MAYBE APPROPRIATE UNTIL THE ACTUAL DEPTH OF THE AWSS LINE IS CONFIRMED.

**DETAIL NOTES:**

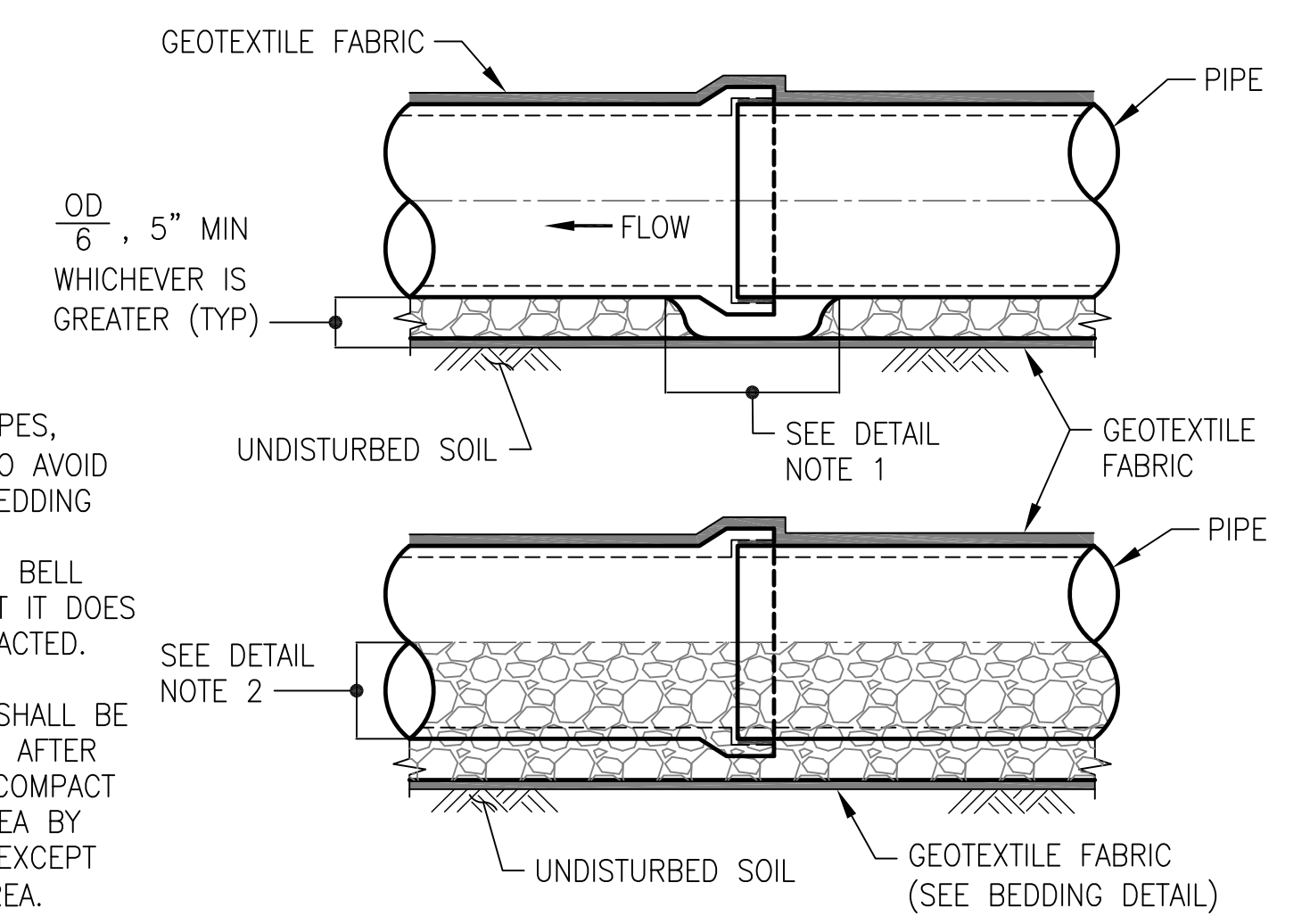
- WRAP AASHTO M288, CLASS 2, NON-WOVEN GEOTEXTILE FABRIC AROUND CRUSHED ROCK BEDDING, 1-FOOT MIN OVERLAP.
- WELL GRADED CRUSHED ROCK BEDDING WITH 100% PASSING THE 1" SIEVE, MIN 90% PASSING THE 3/4" SIEVE & WITH MAX 5% PASSING THE #4 SIEVE. THE FINES PASSING THE NO. 200 SHALL BE NON-PLASTIC.



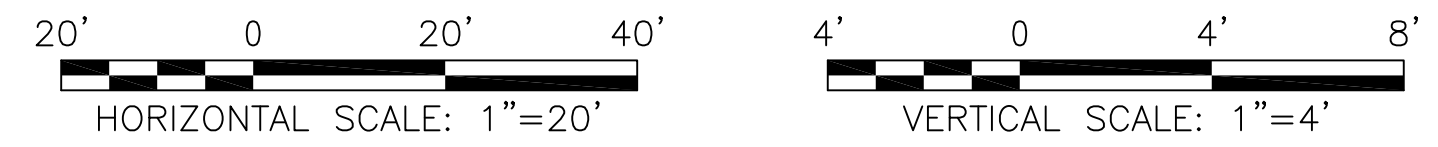
**BEDDING DETAIL FOR RIGID PIPE**

**DETAIL NOTES:**

- PRIOR TO INSTALLING PIPES, PROVIDE "BELL HOLE" TO AVOID RESTING OF BELL ON BEDDING OR FOUNDATION. AFTER CONNECTING PIPES, FILL BELL HOLE WITH BEDDING BUT IT DOES NOT NEED TO BE COMPACTED.
- BEDDING IN THIS AREA SHALL BE PLACED IN TWO LAYERS. AFTER 1ST LAYER IS PLACED, COMPACT BEDDING IN HAUNCH AREA BY SHOVEL SLICE METHOD EXCEPT AT THE "BELL HOLE" AREA.



**PIPE INSTALLATION**



PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,480

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
DEPARTMENT OF ENGINEERING

DESIGNED: DATE:	J.FLORES 06/2024
DRAWN: DATE:	A.K./A.H. 06/2024
CHECKED: DATE:	C.LINH 06/2024

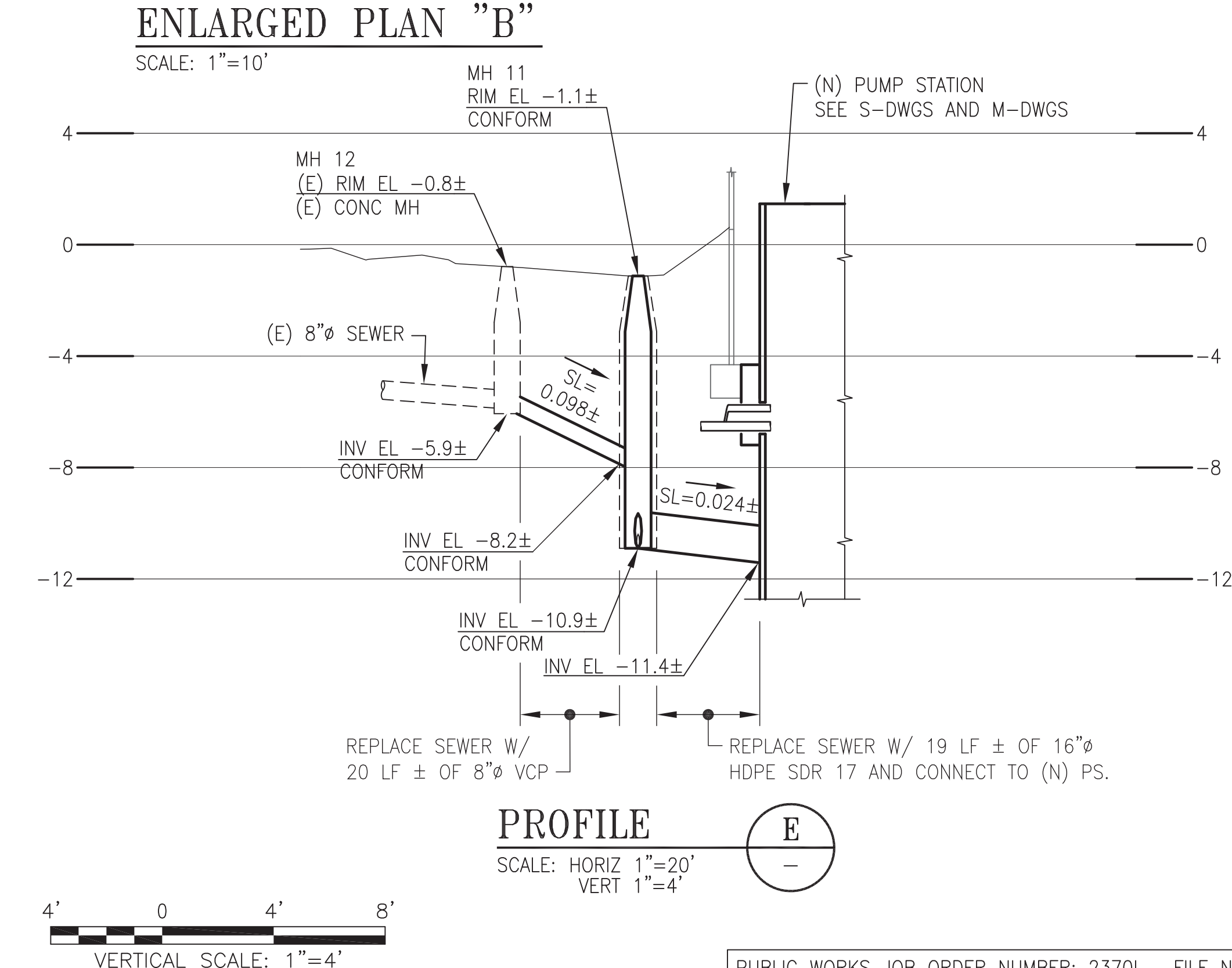
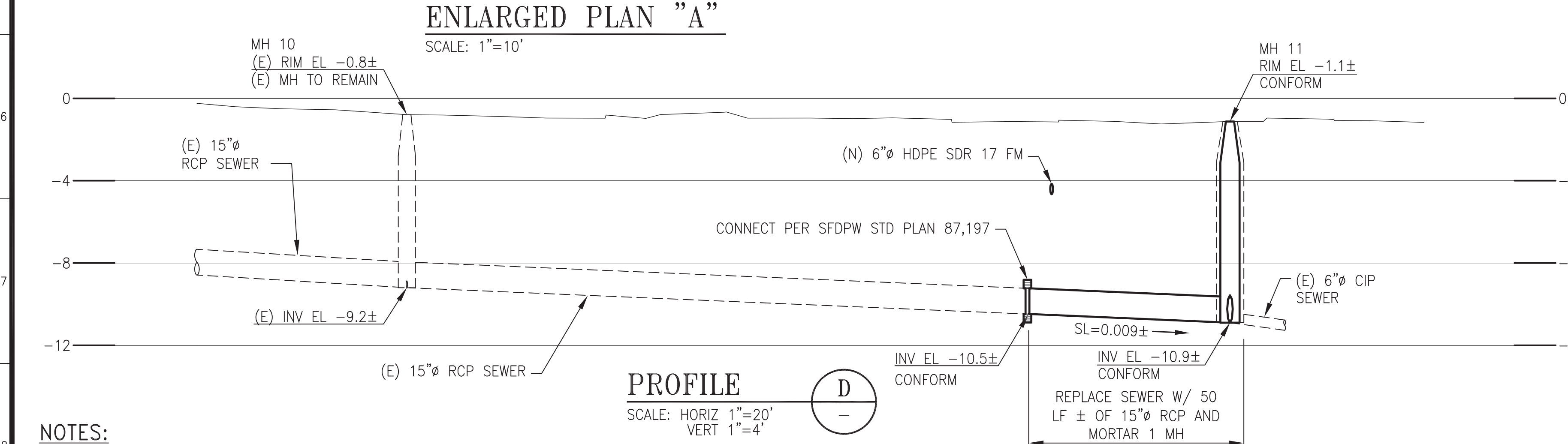
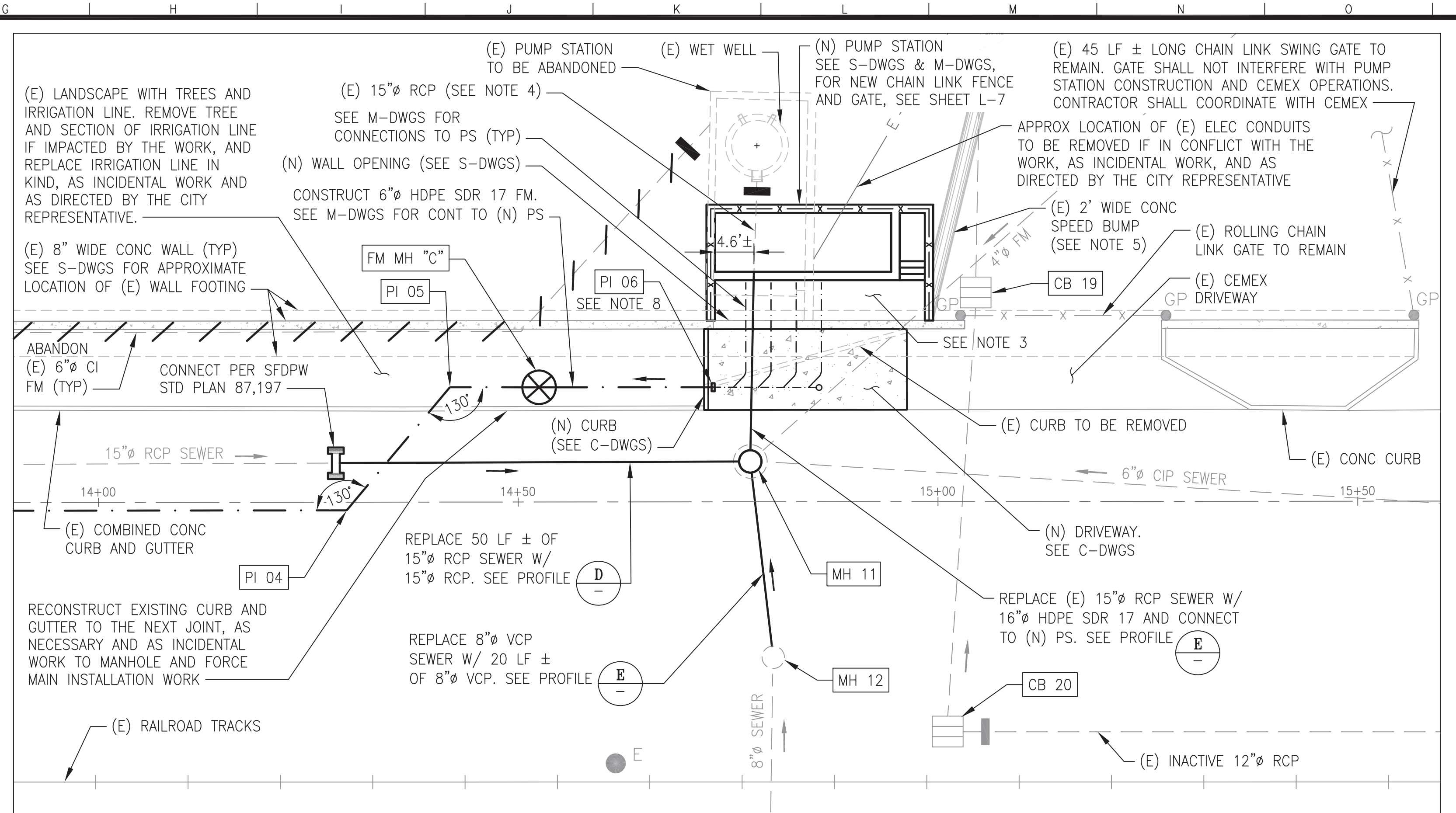
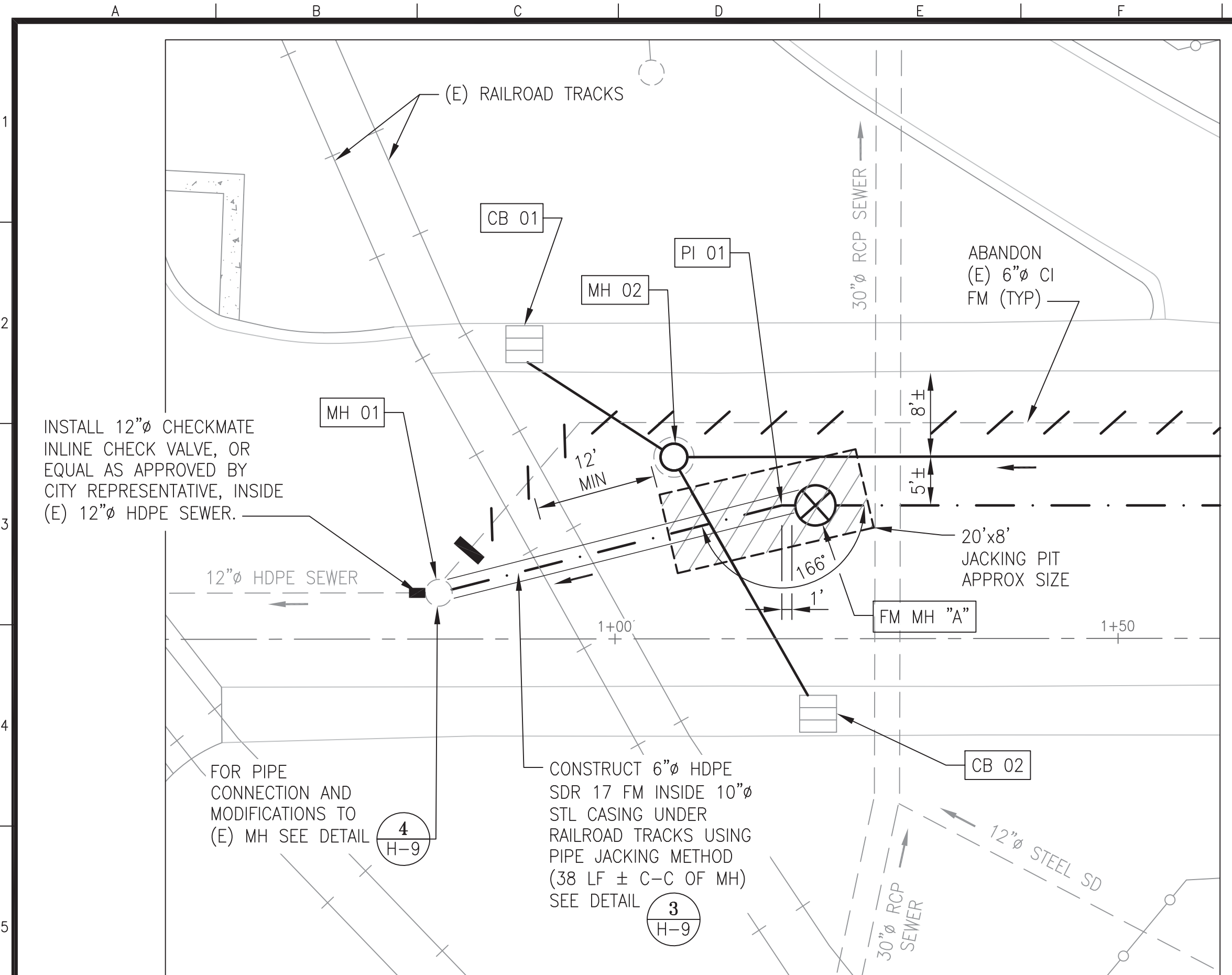
PUBLIC WORKS APPROVALS	
L.WONG 05/30/2024	SECTION MANAGER
I.DHAPA 06/04/2024	DEPUTY BUREAU MANAGER
P.RIVERA 06/06/2024	BUREAU MANAGER

APPROVED BY	SAN FRANCISCO PORT COMMISSION
DATE:	7/3/2024
DocuSigned by:	Uday Prasad
CHIEF HARBOR ENGINEER	

SCALE:	AS NOTED
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**  
**AMADOR STREET SEWER REPLACEMENT**  
**PROFILES B - C**

CONTRACT NO.	2852
PORT DRAWING NO.	19190.1-4043-H
SHEET NO.	H-7
SHEET OF SHEETS	12 OF 72



- NOTES:**
- BEND ANGLES ARE BASED ON PLAN VIEW. CONTRACTOR SHALL PROVIDE ACTUAL ANGLES AND FABRICATE ACCORDINGLY FOR REVIEW AND APPROVAL.
  - PLACE THRUST BLOCK AT EACH BEND LOCATION. SEE SHEET M-7 FOR THRUST BLOCK TYPE AND DETAILS.
  - CONTRACTOR SHALL FURNISH AND INSTALL A LISTED PORTABLE FIRE EXTINGUISHER COMPLYING WITH SECTION 906 PORTABLE FIRE EXTINGUISHERS OF THE SAN FRANCISCO FIRE CODE WITH A MINIMUM RATING OF 2-A:20-B:C, AT THE EXACT LOCATION AS DIRECTED BY THE CITY REPRESENTATIVE.
  - PLUG (E) 15" RCP CONNECTION TO (E) WET WELL AFTER INSTALLATION OF TEMPORARY BYPASS IS IN PLACE. SEE M-DWGS FOR TEMPORARY BYPASS.
  - REMOVE SECTION OF (E) 2'-WIDE CONC SPEED BUMP TO AVOID INTERFERENCE WITH THE WORK, AND AS DIRECTED BY THE CITY REPRESENTATIVE. RECONSTRUCT SPEED BUMP IN KIND TO CONFORM TO (N) PUMP STATION PERIMETER.
  - CONTRACTOR SHALL MAINTAIN CLEARANCE AROUND CONSTRUCTION AREA FOR VEHICULAR ACCESS INSIDE PIER 92 LEASEHOLD. SEE DRAWING G-4 FOR AVAILABLE CONSTRUCTION AREA LIMITS.
  - FURNISH AND INSTALL HDPE-DIP CONNECTION FITTING. SEE SPECIFICATION SECTION 33 33 00 FOR REQUIREMENTS.



PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,481

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
DEPARTMENT OF ENGINEERING

01/16/2024

DESIGNED: DATE: J.FLORES 12/2023  
DRAWN: DATE: A.K./A.H. 12/2023  
CHECKED: DATE: C.LINH 12/2023

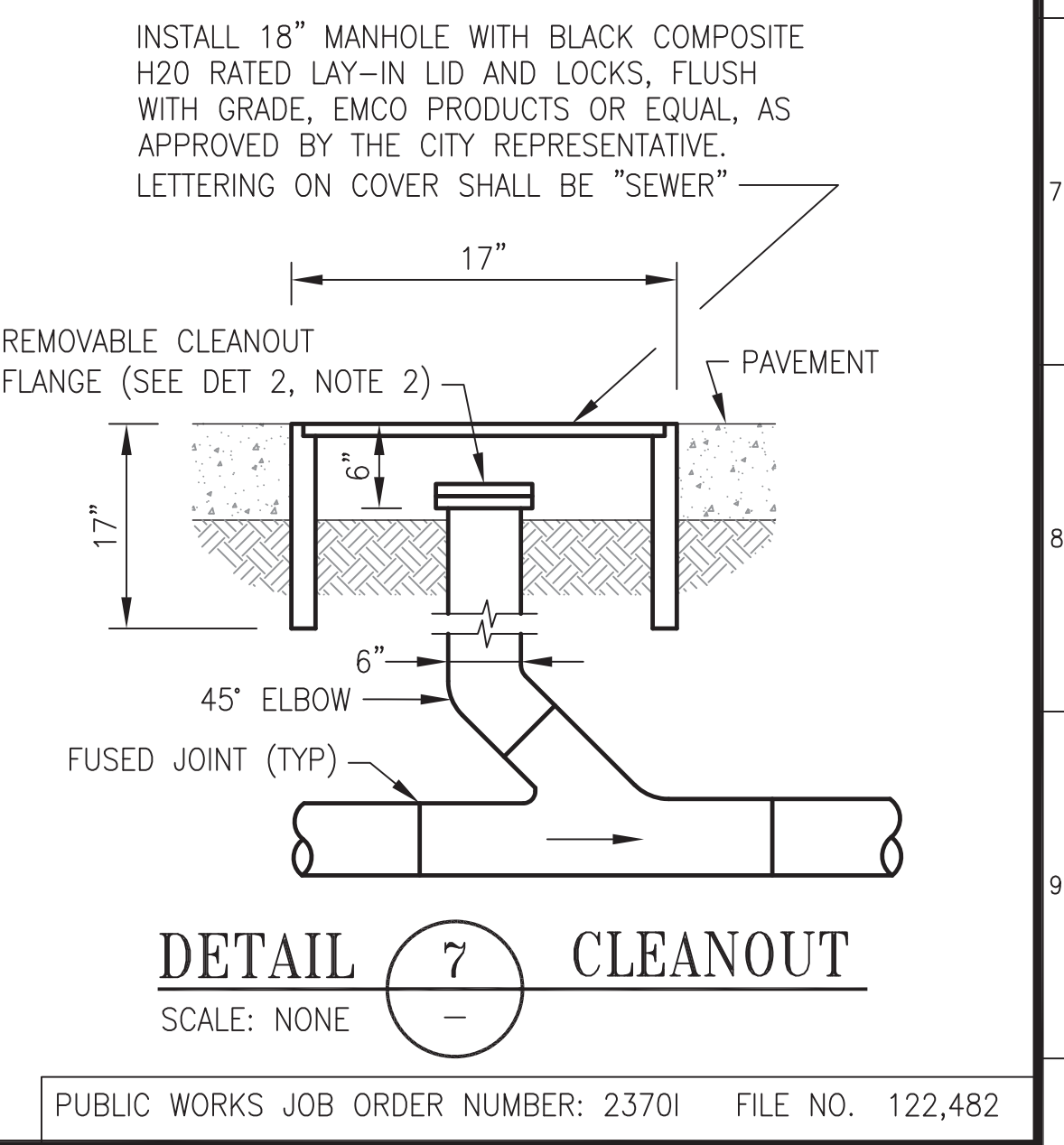
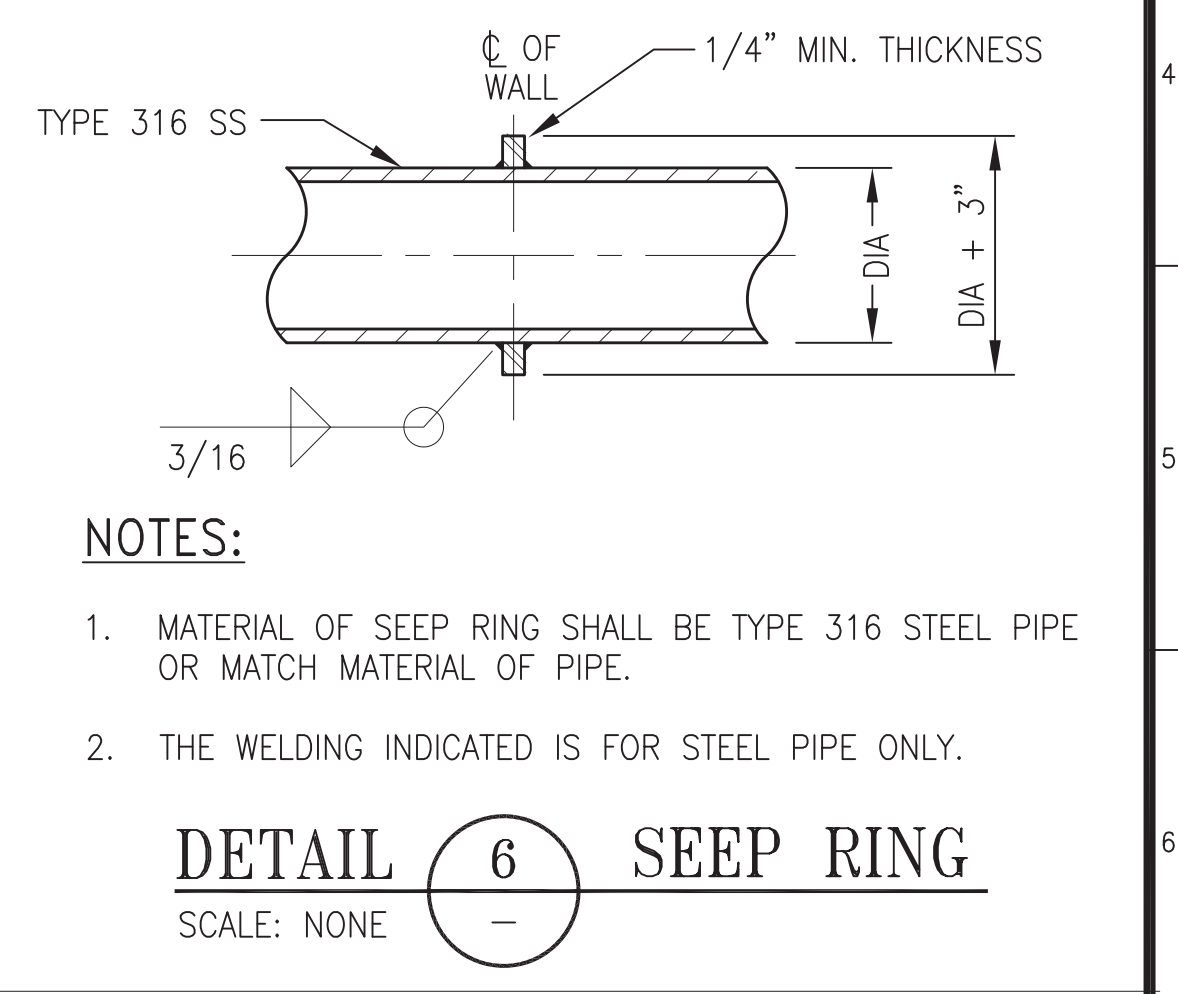
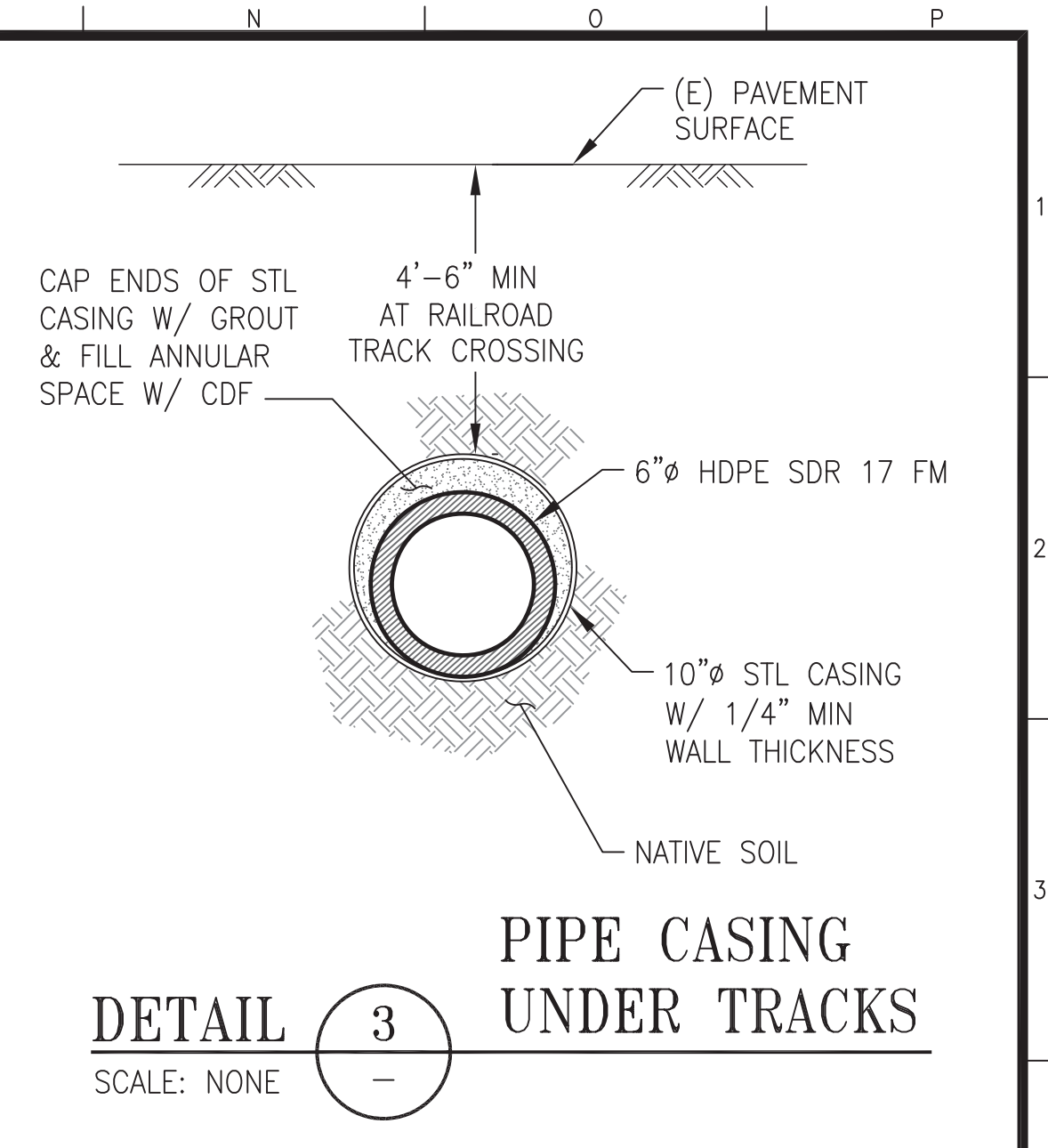
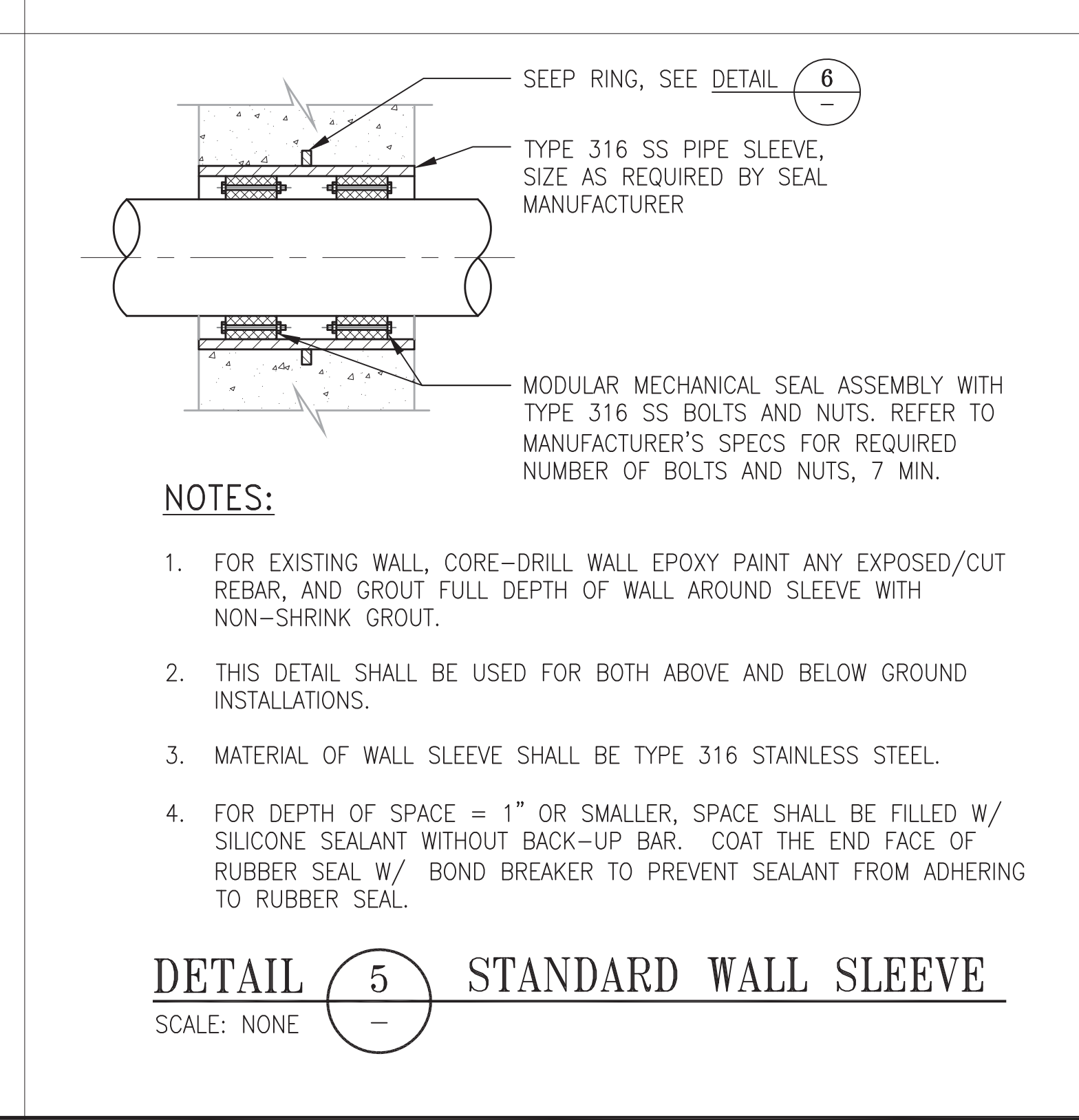
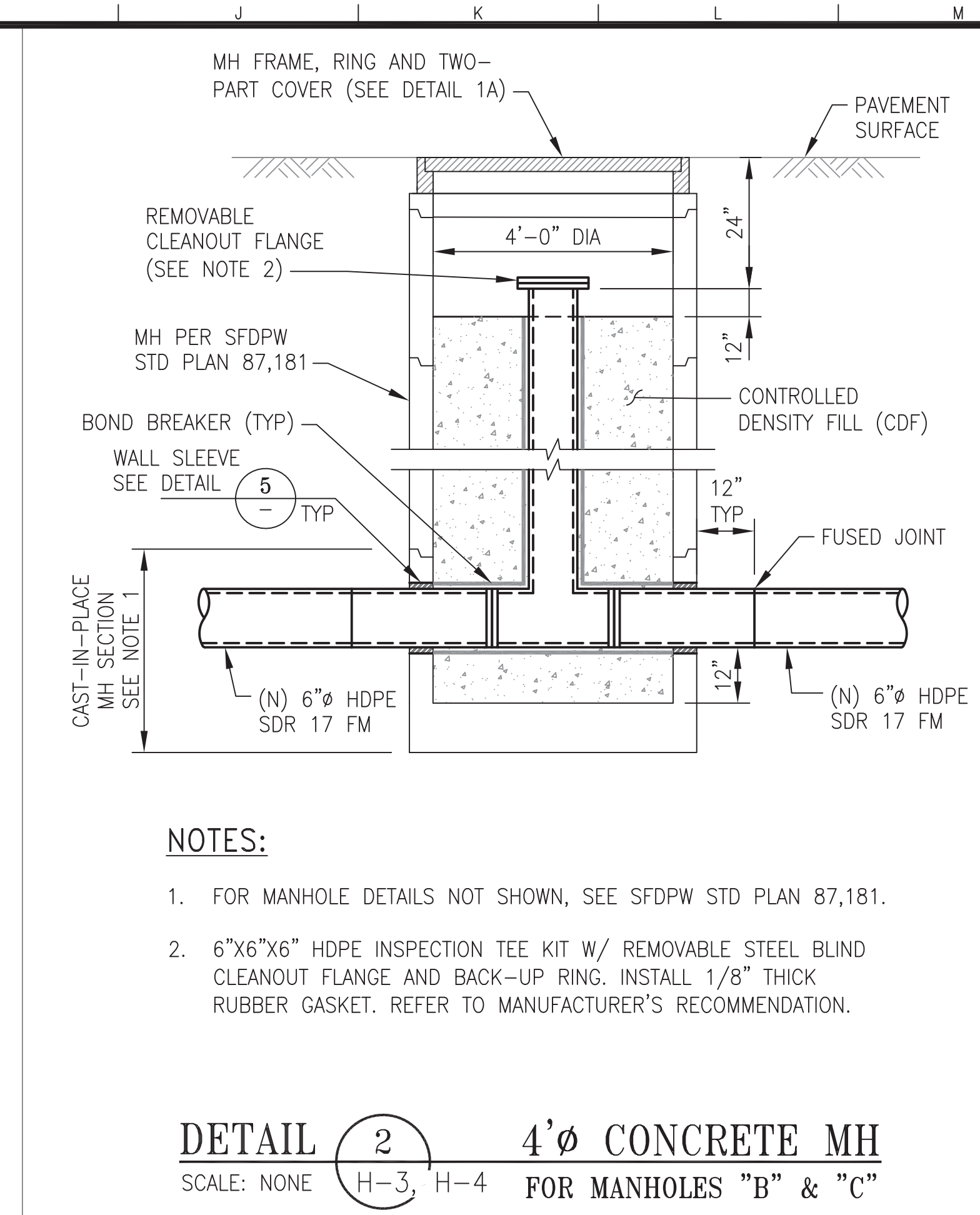
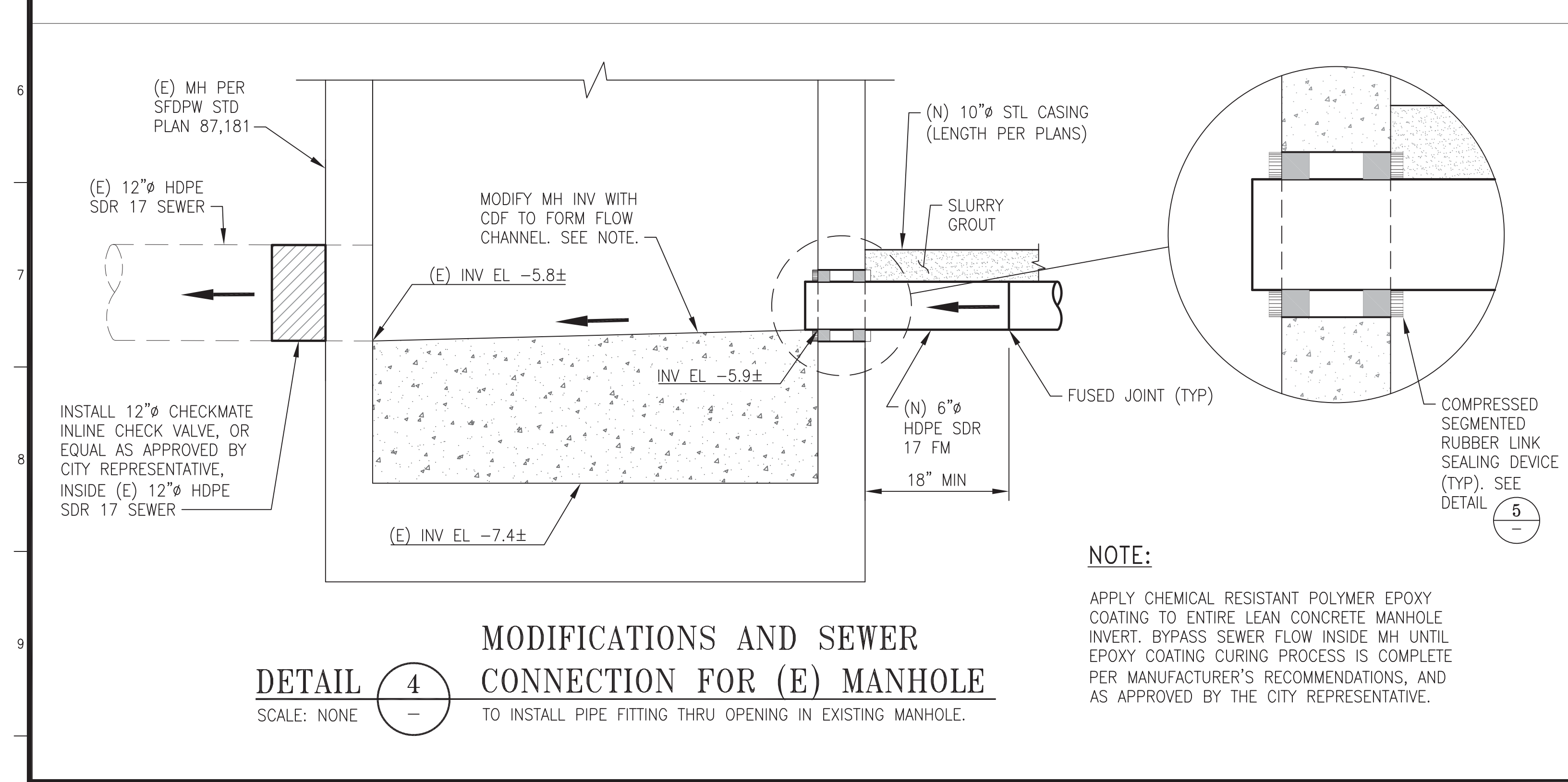
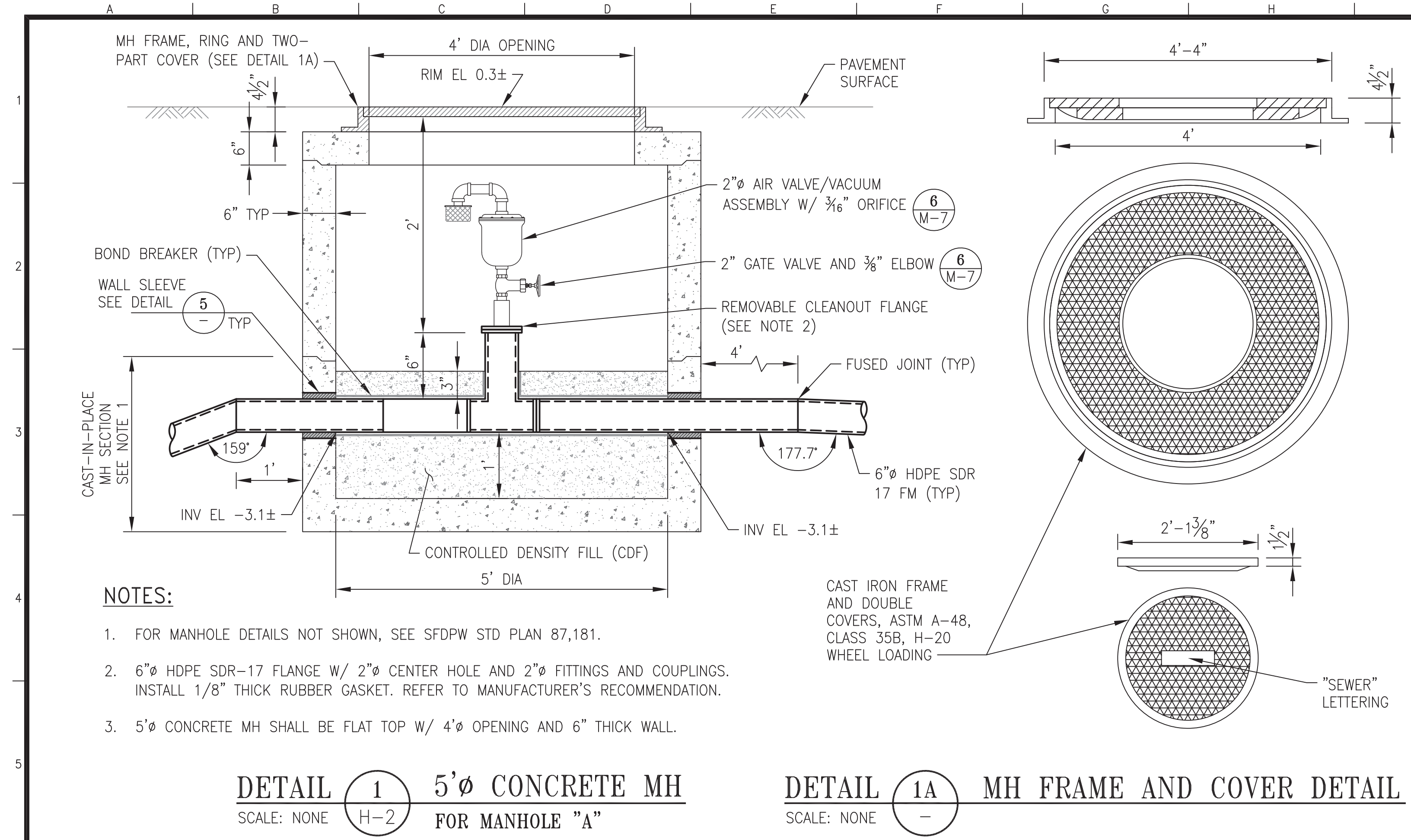
PUBLIC WORKS APPROVALS  
L.WONG 02/01/2024  
SECTION MANAGER DATE:  
I.DHAPA 02/14/2024  
DEPUTY BUREAU MANAGER DATE:  
P.RIVERA 03/18/2024  
BUREAU MANAGER DATE:

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 5/16/2024  
Uday Prasad  
CHIEF HARBOR ENGINEER

SCALE: AS NOTED  
REV. NO. 0

**AMADOR STREET**  
INFRASTRUCTURE IMPROVEMENTS  
**AMADOR STREET SEWER REPLACEMENT**  
ENLARGED PLANS A - B  
AND PROFILES D - E

CONTRACT NO. 2852  
PORT DRAWING NO. 19190.2-4043-H  
SHEET NO. H-8  
SHEET OF SHEETS 13 OF 72



NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

DESIGNED: DATE:	J.FLORES 12/2023
DRAWN: DATE:	A.K./A.H. 12/2023
CHECKED: DATE:	C.LINH 12/2023

PUBLIC WORKS APPROVALS	L.WONG 02/01/2024
SECTION MANAGER DATE:	I.DHAPA 02/14/2024
DEPUTY BUREAU MANAGER DATE:	P.RIVERA 03/18/2024
BUREAU MANAGER DATE:	

APPROVED BY	Uday Prasad
SAN FRANCISCO PORT COMMISSION	CHIEF HARBOR ENGINEER
DATE:	5/16/2024

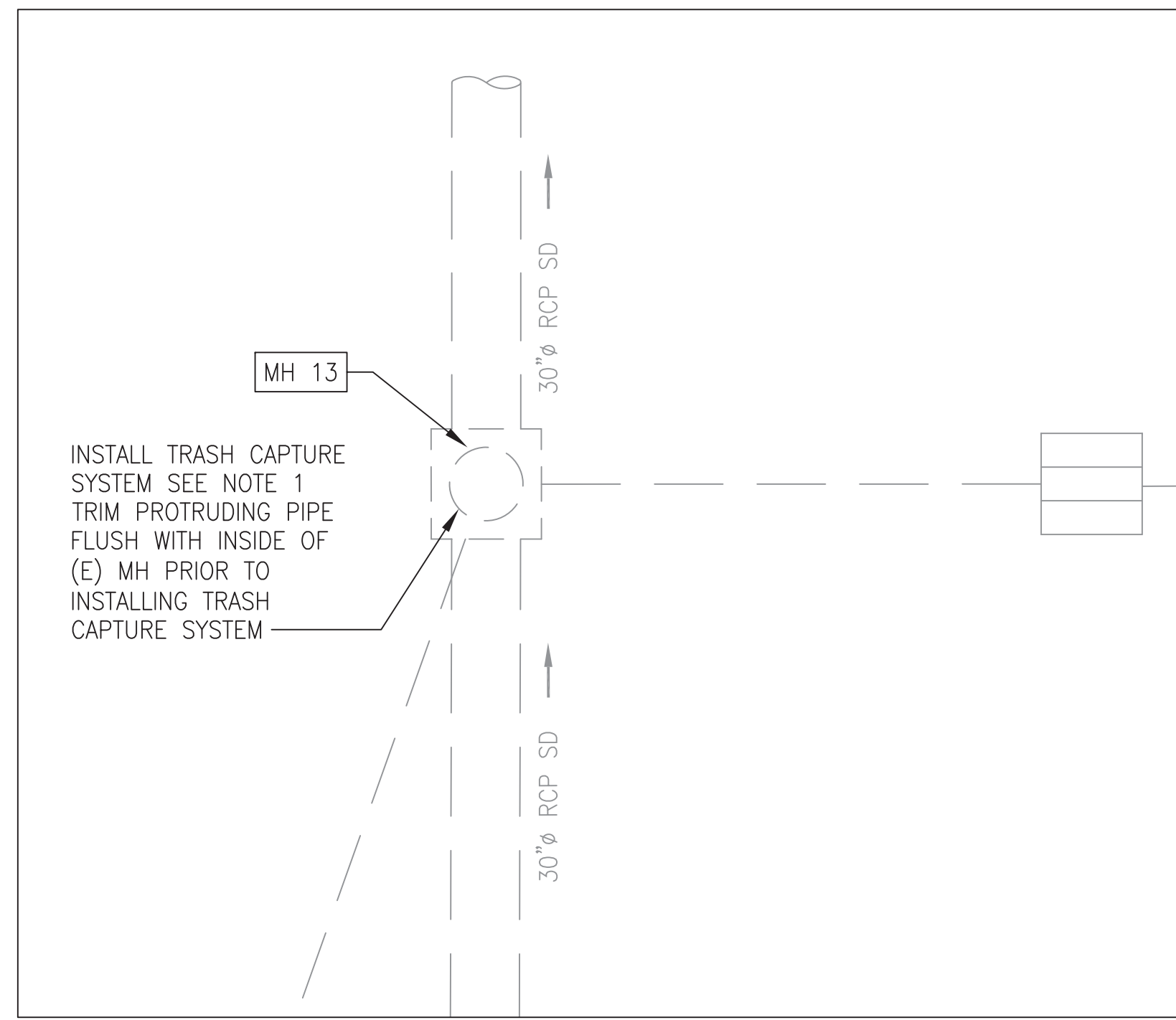
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REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

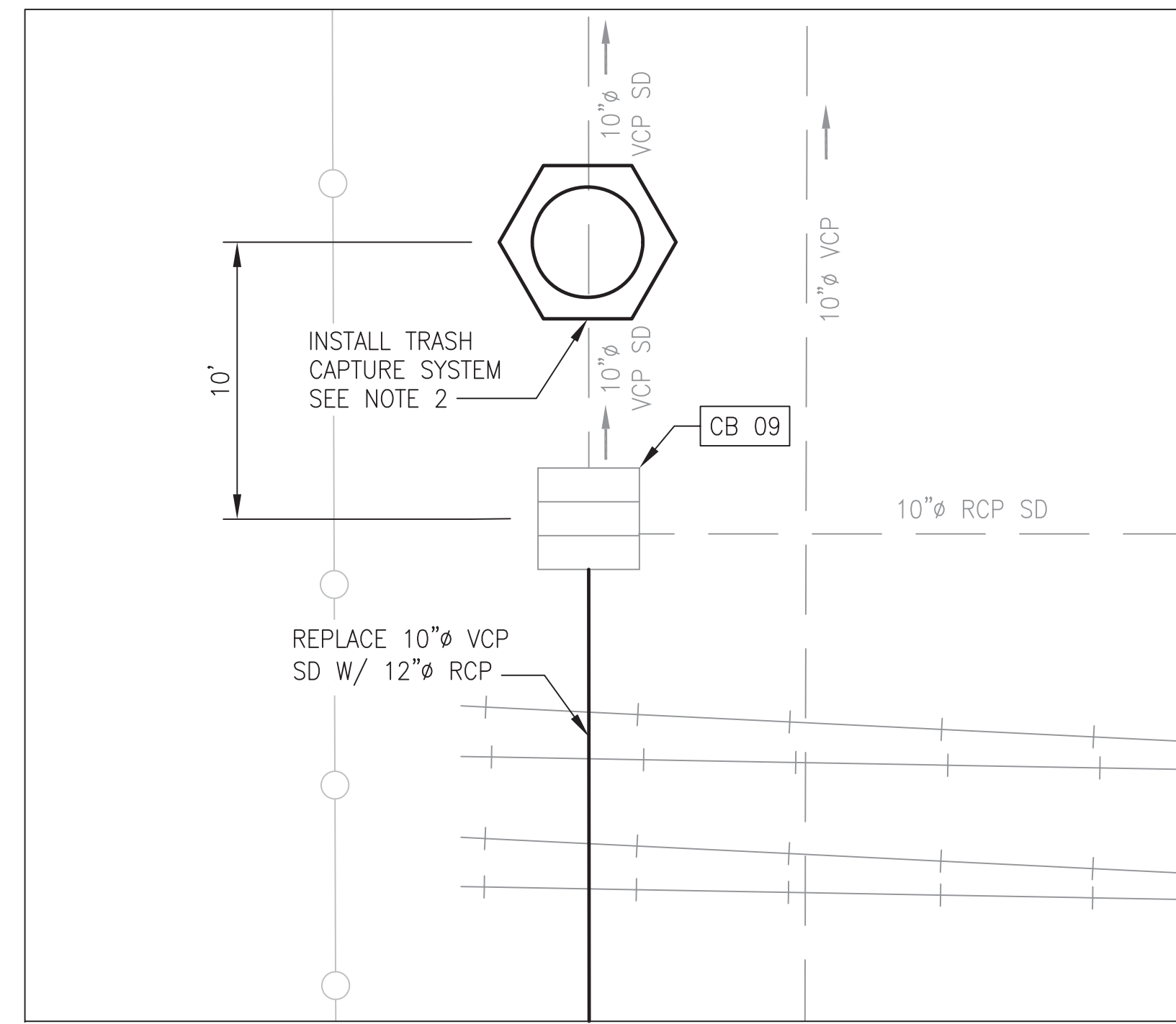
**DETAILS**

CONTRACT NO.	2852
PORT DRAWING NO.	19191-4043-H
SHEET NO.	H-9
SHEET OF SHEETS	14 OF 72

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,482



**ENLARGED PLAN "C"**  
SCALE: 1"=5'

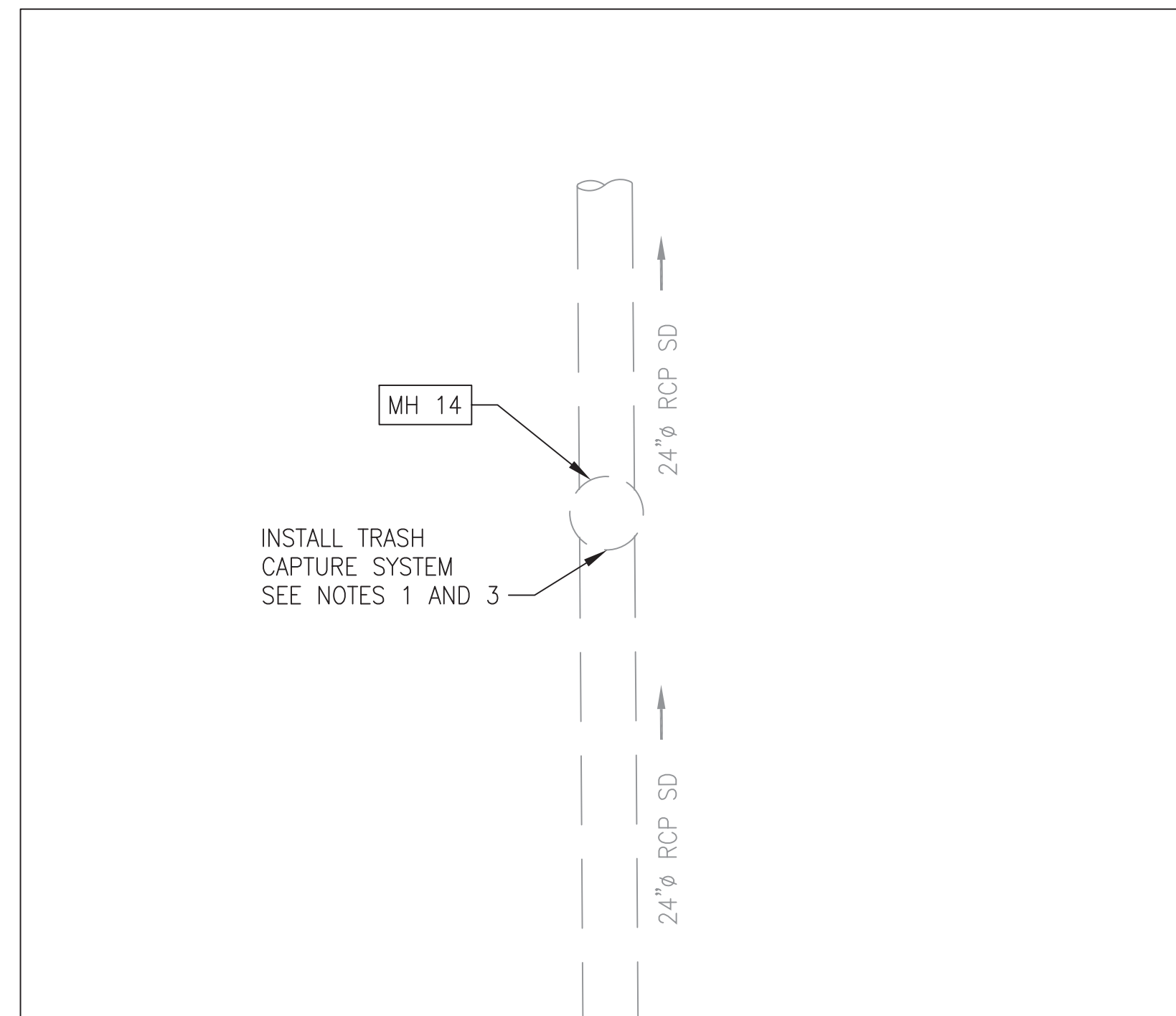


**ENLARGED PLAN "D"**  
SCALE: 1"=5'

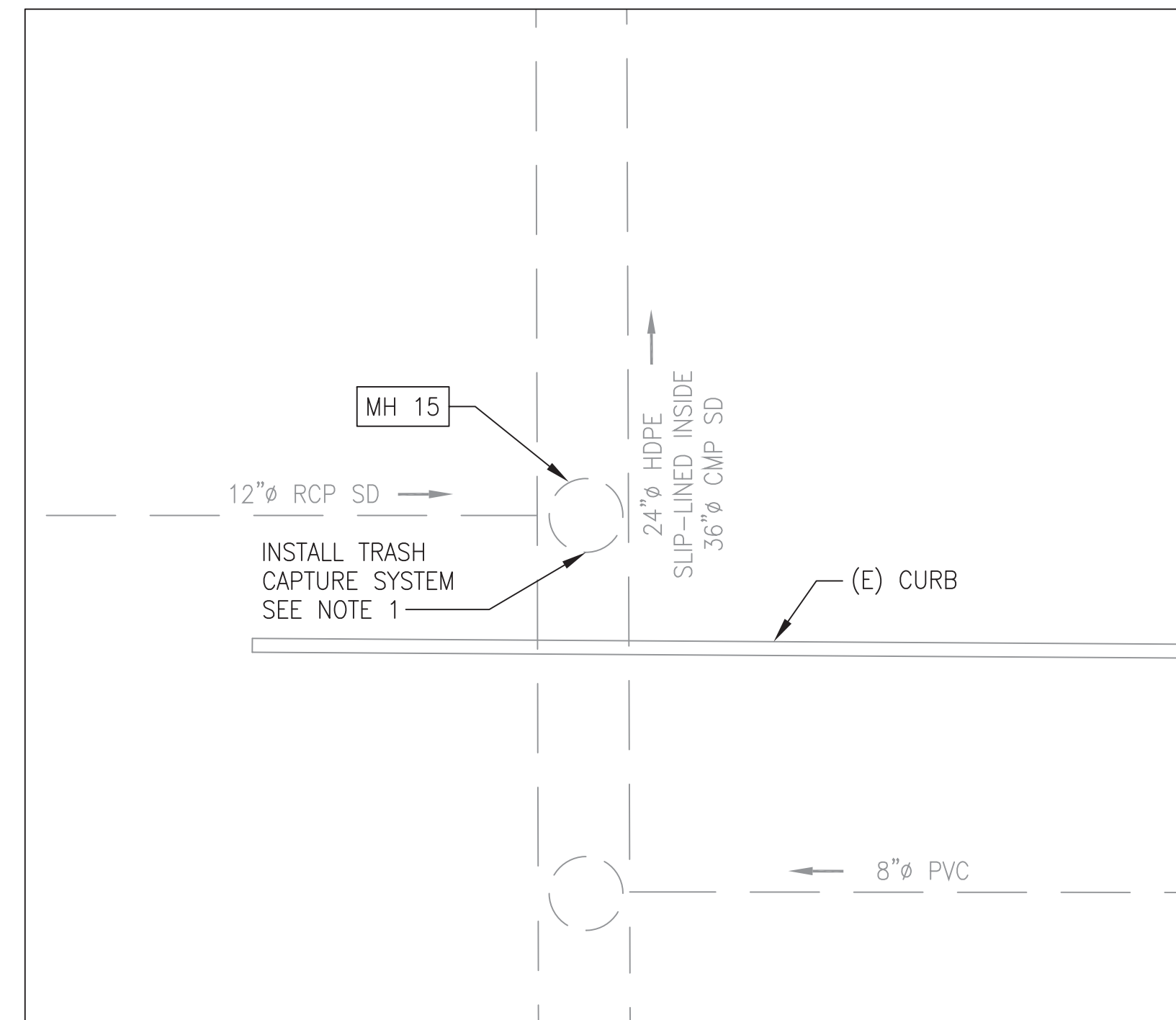
CB/MH COORDINATES, RIM EL AND INV EL				
CB/MH	NORTHING:	EASTING:	RIM EL:	INV EL:
CB 09	2099683.11	6016841.42	-1.0±	-3.6±
MH 13	2099722.64	6016456.12	-2.2±	-8.7±
MH 14	2099740.29	6017372.63	-2.0±	-9.0±
MH 15	2099581.71	6018296.04	0.6±	-8.5±

**NOTES:**

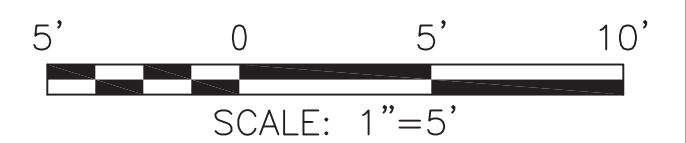
- FURNISH AND INSTALL HIGH FLOW DEVICE, CROSSLINKED HIGH DENSITY POLYETHYLENE "DOWNSTREAM DEFENDER" BY HYDRO INTERNATIONAL INSIDE (E) MH. SEE SPEC SECTION 33 33 00 FOR ADDITIONAL REQUIREMENTS.
- FURNISH AND INSTALL HIGH FLOW DEVICE "JDS72-3636 JENSEN DEFLECTIVE SEPARATOR" OR APPROVED EQUAL BY THE CITY REPRESENTATIVE. SEE SPEC SECTION 33 33 00 FOR ADDITIONAL REQUIREMENTS.
- EXISTING MH IS INSIDE CEMEX LEASEHOLD. CONTRACTOR SHALL COORDINATE WITH THE CITY REPRESENTATIVE FOR ACCESS TO PERFORM THE WORK. EXISTING MANHOLE HAS EXISTING GRATE COVER OVER SOLID MANHOLE COVER.
- TRASH CAPTURE DEVICES SHALL BE RATED FOR THE FOLLOWING FLOW RATES (MIN):  
 A) PLAN "C": 5.2 (CFS)  
 B) PLAN "D": 1.4 (CFS)  
 C) PLAN "E": 12.1 (CSF)  
 D) PLAN "F": 3.3 (CFS)



**ENLARGED PLAN "E"**  
SCALE: 1"=5'



**ENLARGED PLAN "F"**  
SCALE: 1"=5'



PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,483

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION  
& FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
DEPARTMENT OF ENGINEERING

01/16/2024

DESIGNED: DATE:	J.FLORES 12/2023	PUBLIC WORKS APPROVALS	L.WONG 02/01/2024
DRAWN: DATE:	A.K./A.H. 12/2023	SECTION MANAGER	I.DHAPA 02/14/2024
CHECKED: DATE:	C.LINH 12/2023	DEPUTY BUREAU MANAGER	P.RIVERA 03/18/2024
		BUREAU MANAGER	

APPROVED BY	SAN FRANCISCO PORT COMMISSION
DATE:	5/16/2024
APPROVED BY	Uday Prasad
DATE:	03/18/2024
	CHIEF HARBOR ENGINEER

SCALE:	AS NOTED
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**AMADOR STREET SEWER REPLACEMENT**  
**TRASH CAPTURE WORK**  
**ENLARGED PLANS C - F**

CONTRACT NO.	2852
PORT DRAWING NO.	19191.1-4043-H
SHEET NO.	H-10
SHEET OF SHEETS	15 OF 72

ABBREVIATIONS				SYMBOLS AND LEGEND				GENERAL NOTES	
ABBREV	DESCRIPTION	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
1	@ CENTERLINE DIAMETER, ROUND or PHASE	HD HDPE HP HZ	HEAD or HUB DRAIN HIGH-DENSITY POLYETHYLENE HORSEPOWER HERTZ	V VIF VR		SANITARY VENT or VOLTS VERIFY IN FIELD VENT RISE			
	ABV AD AFF AG AUTO AVG	ID IE IFC IFS IFW IN	INSIDE DIAMETER or INSIDE DIMENSION INVERT ELEVATION IN FURRED CEILING IN FURRED SPACE IN FURRED WALL INCH	W WC WCO WH WM		WASTE or WATTS WATER CLOSET WALL CLEANOUT WATER HEATER or WALL HYDRANT WATER METER			
2	BEL BF BFF BG BOF BHP BLDG BS BSMT BTU BTUH	INV KW LAV LBS LF LG LVL MAX MBH MECH	BELOW BELOW FLOOR BELOW FINISHED FLOOR BELOW GRADE BOTTOM OF FOOTING BRAKE HORSEPOWER BUILDING BELOW SLAB BASEMENT BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR						
	CAP CAT CB CFE CFH CI CLG CO CONC CONN CONT COTG CTE CW	MFR MH MIN MISC (N) NA NIC NO NTS O OC OPER OPP ORD	CAPACITY CATEGORY CATCH BASIN CAPPED FOR FUTURE CUBIC FEET PER HOUR CAST IRON CEILING CLEAN OUT CONCRETE CONNECT or CONNECTION CONTINUATION CLEAN OUT TO GRADE CONNECT TO EXISTING CITY WATER or COLD WATER						
3	DCW DD DHW DHWL	P PD PDI PH PLBG PRV PSI PSIG QTY	DOMESTIC COLD WATER DECK DRAIN DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN DUCTILE IRON DIAMETER DIMENSION DOWN DOWNSPOUT DETAIL DRAWING DRAINAGE WASTE AND VENT						
	DI DIA DIM DN DS DTL DWG DWV	RCP RD RE REF REQD RM RPM RS RW RWP	DUCTILE IRON DIAMETER DIMENSION DOWN DOWNSPOUT DETAIL DRAWING DRAINAGE WASTE AND VENT						
4	(E) EA EEW EFF% ELEC EL ELL ENGR EQ EQPT ET EWH EWT	S SCHED SD SED SF SFD SHT SJ SK SL SLAD SOG SP SPECS SQ SS SSD SSK SST STRUCT SYST	EXISTING EACH EMERGENCY EYE WASH EFFICIENCY (PERCENTAGE) ELECTRIC or ELECTRICAL ELEVATION ELBOW ENGINEER EQUAL EQUIPMENT EXPANSION TANK ELECTRIC WATER HEATER ENTERING WATER TEMPERATURE						
5	(F) *F FAVT FC FCO FD FF FLA FIN FNS FPS FRE FT FU	T TRENCH DRAIN TDH TEMP TP TYP UG UON	FUTURE DEGREE FAHRENHEIT FRESH AIR VENT TRAP FLEXIBLE CONNECTION FLOOR CLEANOUT FLOOR DRAIN FINISHED FLOOR FULL LOAD AMPS FINISHED FEET PER SECOND FIRE RATED ENCLOSURE FEET FIXTURE UNIT						
6	GAL GALV GC GEN GND GPF GPH GPM GRD GSM		GALLONS GALVANIZED GENERAL CONTRACTOR GENERAL GROUND GALLONS PER FLUSH GALLONS PER HOUR GALLONS PER MINUTE GRADE GALVANIZED SHEET METAL						

- LEGENDS ARE GENERIC STANDARDS, AND MAY DEPICT ITEMS NOT APPLICABLE TO THIS JOB.
- BACKGROUNDS ARE FOR CONCEPTUAL REFERENCE AND MAY NOT BE CURRENT. SEE APPROPRIATE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS. DUCT AND PIPING ROUTING IS SHOWN AS A GUIDE AND SHOULD BE FOLLOWED AS CLOSELY AS POSSIBLE BUT MAY BE MODIFIED AS NECESSARY TO MEET ACTUAL FIELD CONDITIONS AND INTERFERENCES. VERIFY WITH THE PROJECT ARCHITECT/ENGINEER.
- VERIFY ALL DIMENSIONS AND ELEVATIONS AT PROJECT SITE. VERIFY AT PROJECT SITE EXACT SIZE, LOCATION, AND CLEARANCE OF EXISTING SERVICES. VERIFY EXACT INVERT ELEVATION OF POINTS OF CONNECTION TO EXISTING SERVICES PRIOR TO INSTALLATION OF NEW BRANCH, MAINS, OR SERVICE RELOCATION.
- CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- EXISTING EQUIPMENT PIPING ARE SHOWN ONLY WHERE NECESSARY TO ESTABLISH RELATIONSHIP OR CONNECTION POINTS WITH NEW WORK. NOT ALL EXISTING PIPING AND EQUIPMENT ARE SHOWN.
- INSTALL PIPING TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE WORK OF OTHER TRADES. THE DRAWING(S) ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR EXACT LOCATIONS.
- ALL REFERENCES TO BRAND NAMES OR TRADE NAMES ON THIS SHEET INCLUDES THE PHRASE "OR EQUAL." SEE SECTIONS 106.12 AND 106.13 OF THE STANDARD SPECIFICATIONS.
- ALL ITEMS NOT LABELED AS EXISTING SHALL BE BID AND INSTALLED AS NEW.
- ALL DEMOLISHED ITEMS SHALL BE REMOVED AND DISPOSED OF AS THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL COORDINATE ALL WORK TO PREVENT CONFLICTS BETWEEN TRADES AND SHALL REPORT CONFLICTS OF INCONGRUITIES BETWEEN NEW WORKS AND/OR EXISTING FACILITIES TO THE CITY REPRESENTATIVE IMMEDIATELY.
- ALL BOLTS, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE TYPE 316 SS UNLESS OTHERWISE NOTED.

**ANCHORAGE AND SEISMIC BRACING NOTES**

- CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA TO PROVIDE DESIGN AND ENGINEERING FOR MECHANICAL SYSTEMS AND EQUIPMENT SUPPORTS, ANCHORAGE AND SEISMIC BRACING REQUIRED BY THE PROJECT. CONTRACTOR SHALL REFER TO STRUCTURAL DRAWINGS FOR SEISMIC CRITERIA. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR GENERIC MECHANICAL SYSTEM DETAILS FOR REFERENCE THAT DEPICTS THE DESIGN INTENT REQUIRED BY THE PROJECT. ADEQUACY TO BE VERIFIED AND FINAL DESIGN AND ENGINEERING TO BE PROVIDED BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO DISTRIBUTE THE LOADS TO THE STRUCTURE.
- CONTRACTOR SHALL SUBMIT, PRIOR TO INSTALLATION, SEISMIC BRACING, PIPE SUPPORTS, AND ANCHORAGE LOAD CALCULATIONS AND SHOP DRAWINGS WITH INSTALLATION DETAILS FOR EQUIPMENT, CONDUITS, PIPING AND EQUIPMENT AND MECHANICAL SYSTEM ANCHORAGES, SEISMIC BRACING, SEISMIC BRACING CONNECTION DETAIL(S) AND SEISMIC BRACING LAYOUT DRAWINGS FOR REVIEW AND APPROVAL BY THE CITY REPRESENTATIVE. ALL SUBMITTALS INCLUDING DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY THE STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,485

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

DESIGNED: DATE:	KL/JC 12/2023	PUBLIC WORKS APPROVALS	APPROVED BY: DATE:	James M. 02/12/2024
DRAWN: DATE:	CE 12/2023	SECTION MANAGER	DATE:	5/16/2024
CHECKED: DATE:	JN 12/2023	DEPUTY BUREAU MANAGER	DATE:	03/18/2024
		BUREAU MANAGER	DATE:	

APPROVED BY: DATE: 5/16/2024

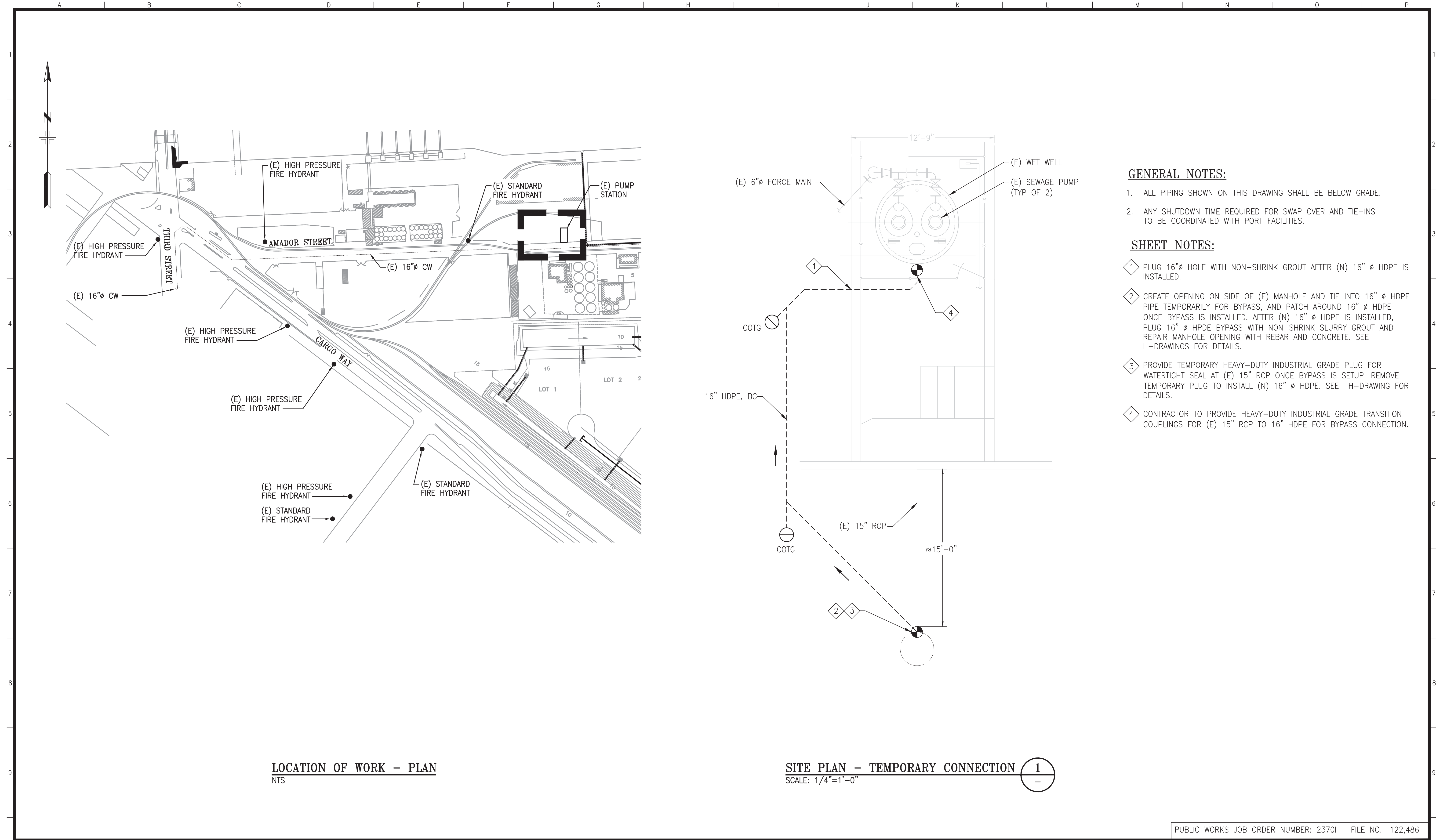
DocuSigned by: *Uday Prasad*  
CHIEF HARBOR ENGINEER

SCALE:	NONE
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**ABBREVIATIONS, SYMBOLS, LEGEND, AND**  
**GENERAL NOTES**

CONTRACT NO.	2852
PORT DRAWING NO.	19192-4043-M
SHEET NO.	M-1
SHEET OF SHEETS	16 OF 72



**GENERAL NOTES:**

1. ALL PIPING SHOWN ON THIS DRAWING SHALL BE BELOW GRADE.
2. ANY SHUTDOWN TIME REQUIRED FOR SWAP OVER AND TIE-INS TO BE COORDINATED WITH PORT FACILITIES.

**SHEET NOTES:**

- 1 PLUG 16"Ø HOLE WITH NON-SHRINK GROUT AFTER (N) 16" Ø HDPE IS INSTALLED.
- 2 CREATE OPENING ON SIDE OF (E) MANHOLE AND TIE INTO 16" Ø HDPE PIPE TEMPORARILY FOR BYPASS, AND PATCH AROUND 16" Ø HDPE ONCE BYPASS IS INSTALLED. AFTER (N) 16" Ø HDPE IS INSTALLED, PLUG 16" Ø HDPE BYPASS WITH NON-SHRINK SLURRY GROUT AND REPAIR MANHOLE OPENING WITH REBAR AND CONCRETE. SEE H-DRAWINGS FOR DETAILS.
- 3 PROVIDE TEMPORARY HEAVY-DUTY INDUSTRIAL GRADE PLUG FOR WATERTIGHT SEAL AT (E) 15" RCP ONCE BYPASS IS SETUP. REMOVE TEMPORARY PLUG TO INSTALL (N) 16" Ø HDPE. SEE H-DRAWING FOR DETAILS.
- 4 CONTRACTOR TO PROVIDE HEAVY-DUTY INDUSTRIAL GRADE TRANSITION COUPLINGS FOR (E) 15" RCP TO 16" HDPE FOR BYPASS CONNECTION.

**LOCATION OF WORK - PLAN**  
NTS

**SITE PLAN - TEMPORARY CONNECTION** 1  
SCALE: 1/4"=1'-0"

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,486

NO.	DATE	DESCRIPTION	BY	APP.
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**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
 DEPARTMENT OF ENGINEERING



DESIGNED:	DATE:	PUBLIC WORKS APPROVALS	
KL/JC	12/2023	SECTION MANAGER	DATE: 02/12/2024
DRAWN:	DATE:	DEPUTY BUREAU MANAGER	DATE: 02/14/2024
CE	12/2023	BUREAU MANAGER	DATE: 03/18/2024
CHECKED:	DATE:		
JN	12/2023		

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 5/16/2024

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 02/14/2024

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 03/18/2024

SCALE:  
AS NOTED

REV. NO.  
0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**SITE PLAN - TEMPORARY CONNECTION**

CONTRACT NO.	2852
PORT DRAWING NO.	19193-4043-M
SHEET NO.	M-2
SHEET OF SHEETS	17 OF 72

SEWAGE PUMP SCHEDULE										
PUMP TAG	LOCATION	SERVICE	CAPACITY		MOTOR				MANUFACTURER/MODEL	REMARKS
			FLOW GPM	HEAD FT. WATER	HP	VOLT	PHASE	RPM		
SP-1	WET WELL	SEWAGE	210	55	10	230	3	1750	GORMAN-RUPP SFS4C-X, OR APPROVED EQUAL	① ② ③ ④
SP-2	WET WELL	SEWAGE	210	55	10	230	3	1750	GORMAN-RUPP SFS4C-X, OR APPROVED EQUAL	① ② ③ ④
SP-3	WET WELL	SEWAGE	210	55	10	230	3	1750	GORMAN-RUPP SFS4C-X, OR APPROVED EQUAL	① ② ③ ④
SP-4	WET WELL	SEWAGE	210	55	10	230	3	1750	GORMAN-RUPP SFS4C-X, OR APPROVED EQUAL	① ② ③ ④

EQUIPMENT SHALL BE FURNISHED WITH THE FOLLOWING MINIMUM FEATURES:

① SUBMERSIBLE, RAIL TYPE      ② EXPLOSION PROOF MOTOR      ③ PROVIDE DIRECT-ON-LINE STARTER      ④ BUILD AMERICA BUY AMERICA COMPLIANT

DEWATERING PUMP SCHEDULE										
SYMBOL	LOCATION	TYPE	PUMP HEAD (FEET)	FLOW RATE (GPM)	POWER (HP)	ELECTRICAL			MANUFACTURER/MODEL	REMARKS
						VOLT	PHASE	HZ		
DW-1	SUMP PIT	SOLID HANDLE SUBMERSIBLE	50	90	5	230	3	60	WEIL 2546, OR APPROVED EQUAL	① ③ ④
DW-2	SUMP PIT	SOLID HANDLE SUBMERSIBLE	50	90	5	230	3	60	WEIL 2546, OR APPROVED EQUAL	① ② ③ ④

EQUIPMENT SHALL BE FURNISHED WITH THE FOLLOWING MINIMUM FEATURES:

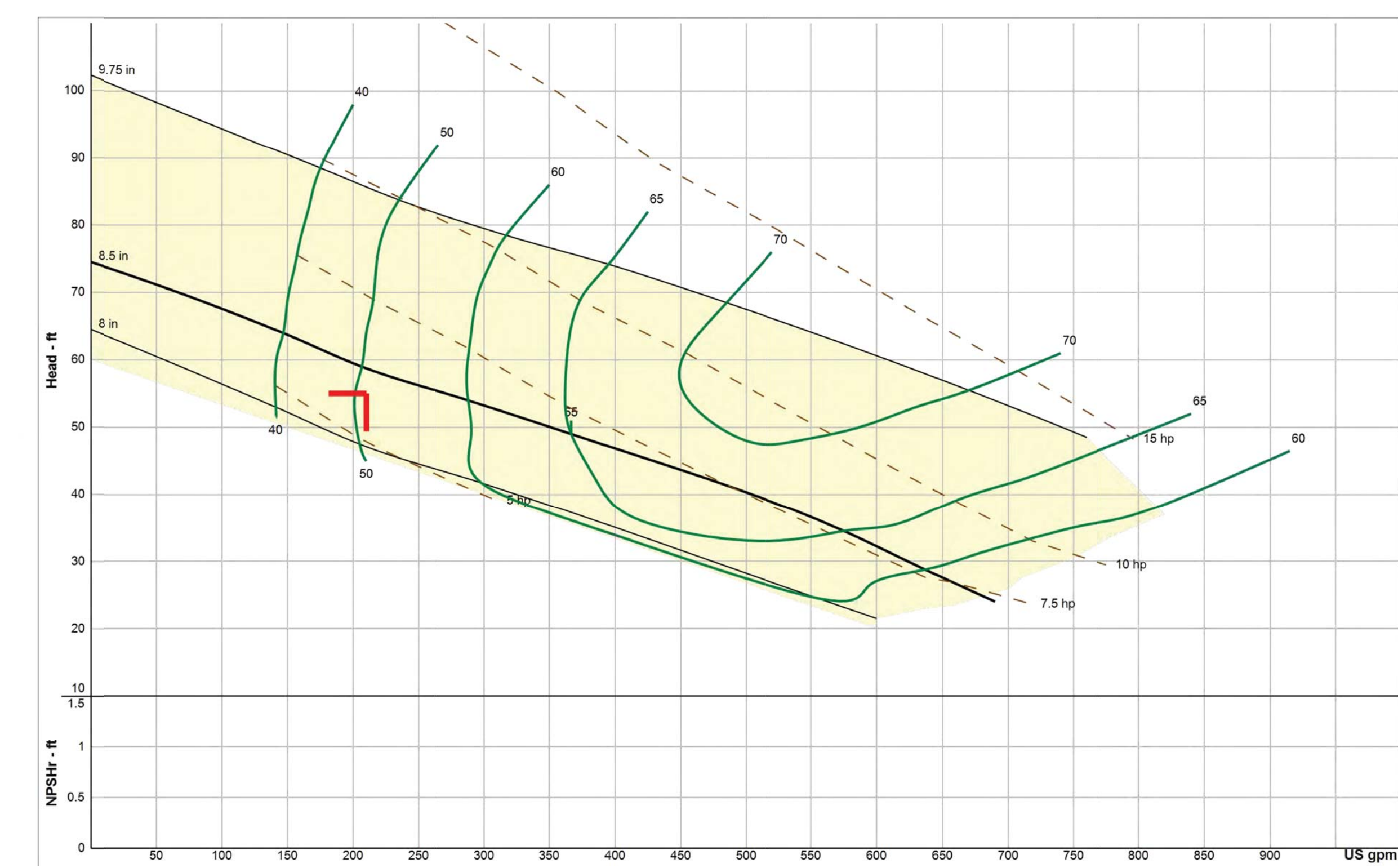
① EXPLOSION PROOF MOTOR      ② PROVIDE AS SPARE PUMP      ③ NEMA 4X DISCONNECT SWITCH      ④ BUILD AMERICA BUY AMERICA COMPLIANT

PLUMBING FIXTURE COUNT									
	BUILDING RESOURCE	AMERICAN STORAGE	696 AMADOR ST.	DARLING	BODE CONCRETE	CEMEX	SUB-TOTAL	FIXTURE UNIT	TOTAL FU
WATER CLOSET	1	0	3	5	8	3	16	10	160
URINAL (FLUSH VALVE)	0	0	0	0	2	0	2	8	16
LAVATORY	1	2	3	5	8	3	16	1	16
KITCHEN SINK	1	0	1	0	2	0	2	2	4
SHOWER	0	0	0	4	0	0	4	4	16
								TOTAL FIXTURE UNIT	212
								EQUIVALENT GPM	94

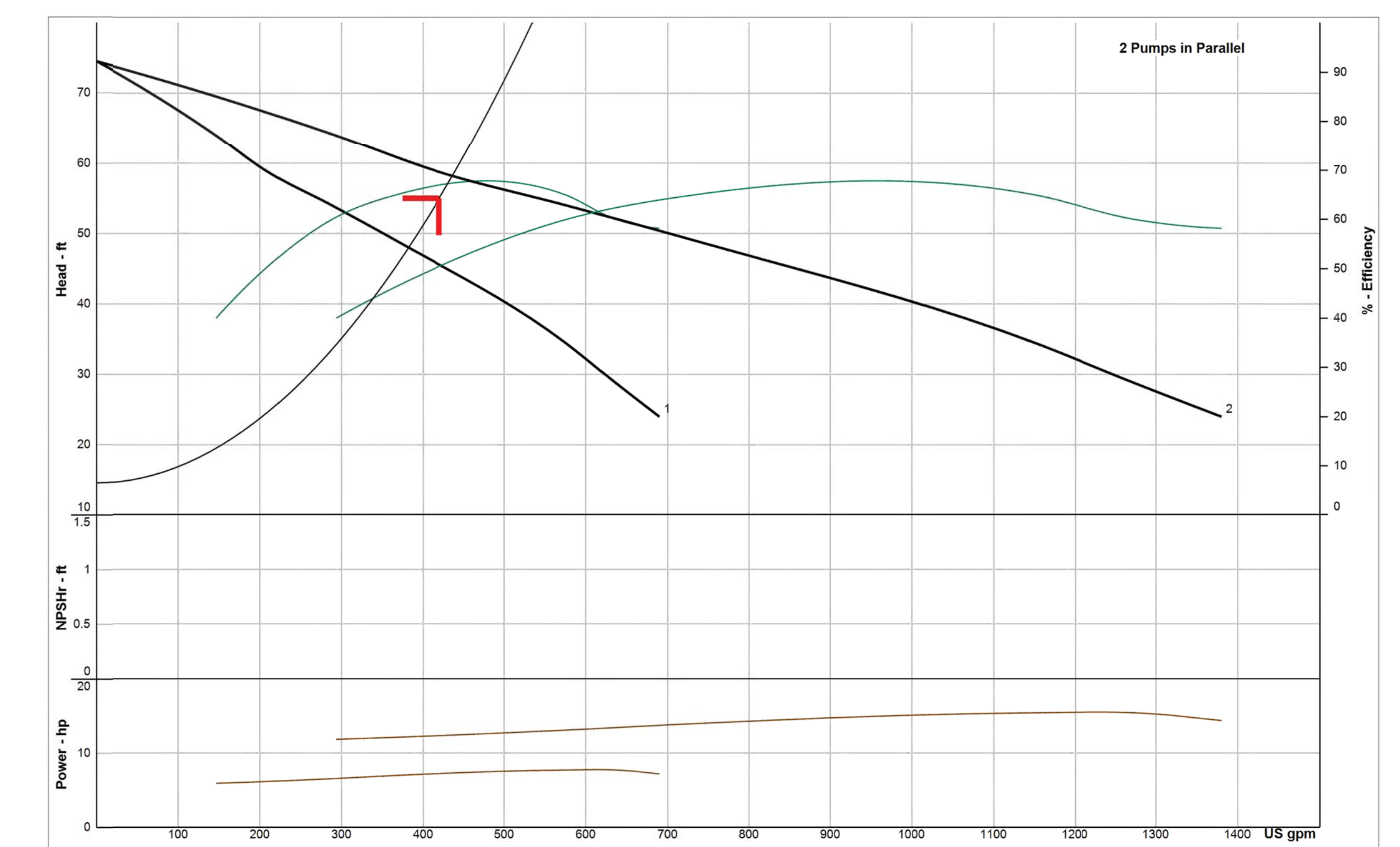
NOTE:

1. INITIAL PROCESS FLOW FROM DARLING      150 GPM + 94 GPM = 244 GPM

2. FINAL PROCESS FLOW FROM DARLING      300 GPM + 94 GPM = 394 GPM



SEWAGE PUMP CURVE - STAGE I, SINGLE PUMP OPERATION



SEWAGE PUMP CURVE - STAGE II, TWO PUMP OPERATION

PUBLIC WORKS JOB ORDER NUMBER: 23701      FILE NO. 122,487

NO.	DATE	DESCRIPTION	BY	APP.
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REFERENCE INFORMATION & FILE NO. OF SURVEYS


**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
 DEPARTMENT OF ENGINEERING



DESIGNED: DATE:	PUBLIC WORKS APPROVALS	APPROVED BY:
KL/JC 12/2023	<i>James M. [Signature]</i> 02/12/2024	SAN FRANCISCO PORT COMMISSION
DRAWN: DATE:	SECTION MANAGER DATE:	DATE: 5/16/2024
CE 12/2023	<i>[Signature]</i> 02/14/2024	
CHECKED: DATE:	DEPUTY BUREAU MANAGER DATE:	
JN 12/2023	<i>Paul A. [Signature]</i> 03/18/2024	
	BUREAU MANAGER DATE:	

APPROVED BY: *Uday Prasad*  
CHIEF HARBOR ENGINEER

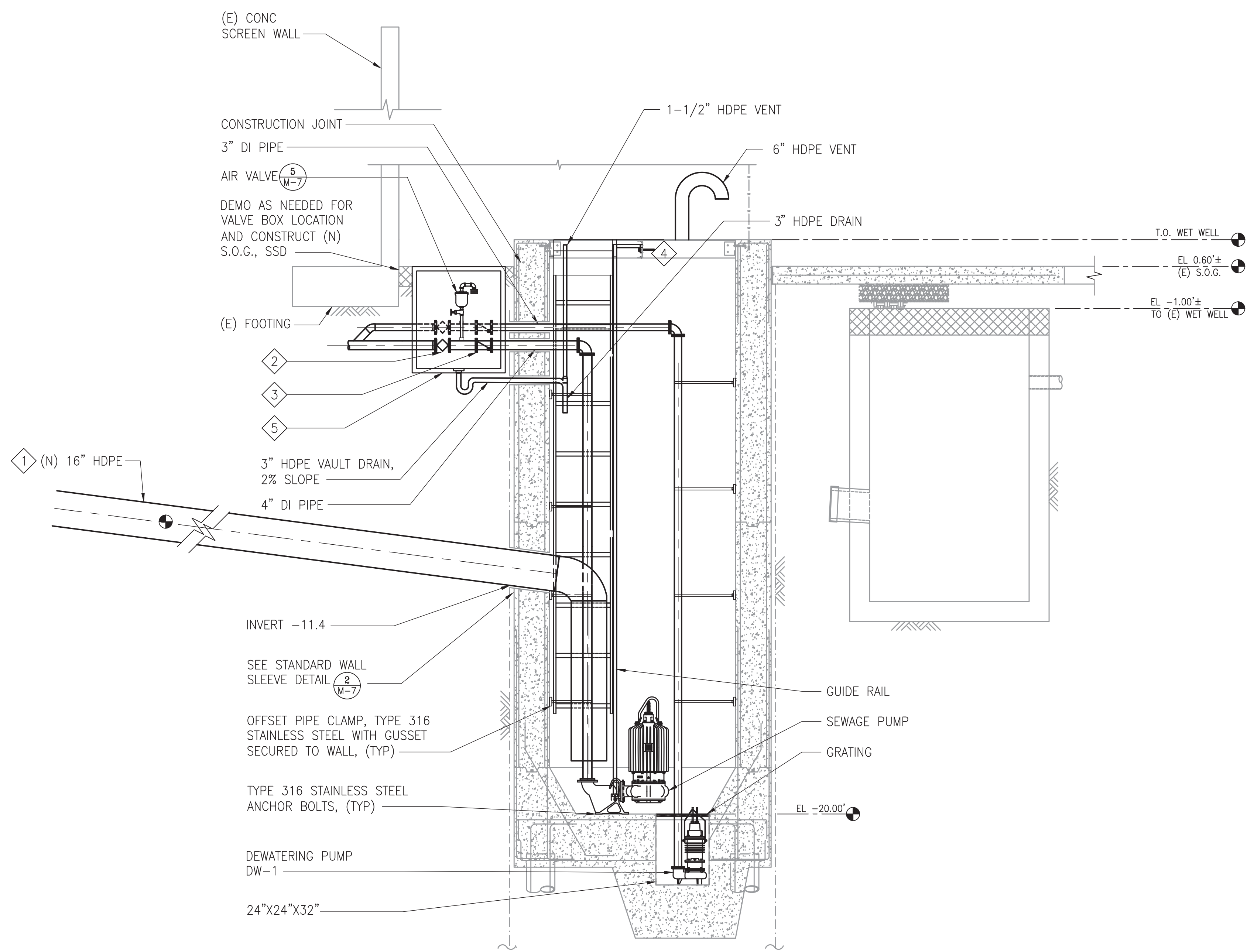
SCALE: NONE  
REV. NO. 0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**  
  
**MECHANICAL SCHEDULE**

CONTRACT NO. 2852  
 PORT DRAWING NO. 19194-4043-M  
 SHEET NO. M-3  
 SHEET OF SHEETS 18 OF 72







**GENERAL NOTES:**

1. INSTALL THE SEWAGE PUMP PER MANUFACTURER'S INSTRUCTIONS.
2. ALL ELECTRICAL AND ELECTRICAL CONTROL WORKS SHALL MEET HAZARD CLASS 1 DIVISION 1 REQUIREMENTS.
3. PIPE SUPPORTS, ANCHORAGE, AND SEISMIC BRACING FOR MECHANICAL SYSTEMS SHALL BE DESIGN-BUILD BY STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR. SEE NOTES ON M-1.
4. PROVIDE WALL SLEEVE FOR ALL WALL PENETRATIONS THROUGH WET WELL. FOR DETAIL, SEE 2/M-7.

**SHEET NOTES:**

- 1 (E)15"  $\phi$  RCP TO BE REPLACED WITH 16"  $\phi$  HDPE, SEE H-1 DRAWINGS FOR DETAIL.
- 2 ECCENTRIC PLUG VALVE, VAL-MATIC 5604F OR APPROVED EQUAL.
- 3 SWING FLEX CHECK VALVE, VAL-MATIC 504A OR APPROVED EQUAL.
- 4 CONTRACTOR SHALL PROVIDE SHOP DRAWING SHOWING HOW TO CONNECT THE GUIDE RAIL TO CHECKERED PLATE SPANNING FRAMING.
- 5 CUSTOM-MADE VALVE BOX WITH 38"Lx22"Wx44"H INTERIOR DIMENSIONS AND CUSTOM REMOVABLE H-20 RATED STEEL COVER FOR ACCESS (TYP OF 5). CONTRACTOR SHALL VERIFY FINAL VALVE BOX DIMENSIONS PRIOR TO SETTING OR INSTALLING EQUIPMENT.

**SECTION A**  
SCALE: 3/8" = 1'-0"  
M-4

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,489

NO.	DATE	DESCRIPTION	BY	APP.
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**SAN FRANCISCO PORT COMMISSION**  
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DEPARTMENT OF ENGINEERING

DESIGNED: DATE:	KL/JC 12/2023	PUBLIC WORKS APPROVALS	SECTION MANAGER DATE:	02/12/2024
DRAWN: DATE:	CE 12/2023	DEPUTY BUREAU MANAGER DATE:	03/18/2024	
CHECKED: DATE:	JN 12/2023	BUREAU MANAGER DATE:		

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 5/16/2024

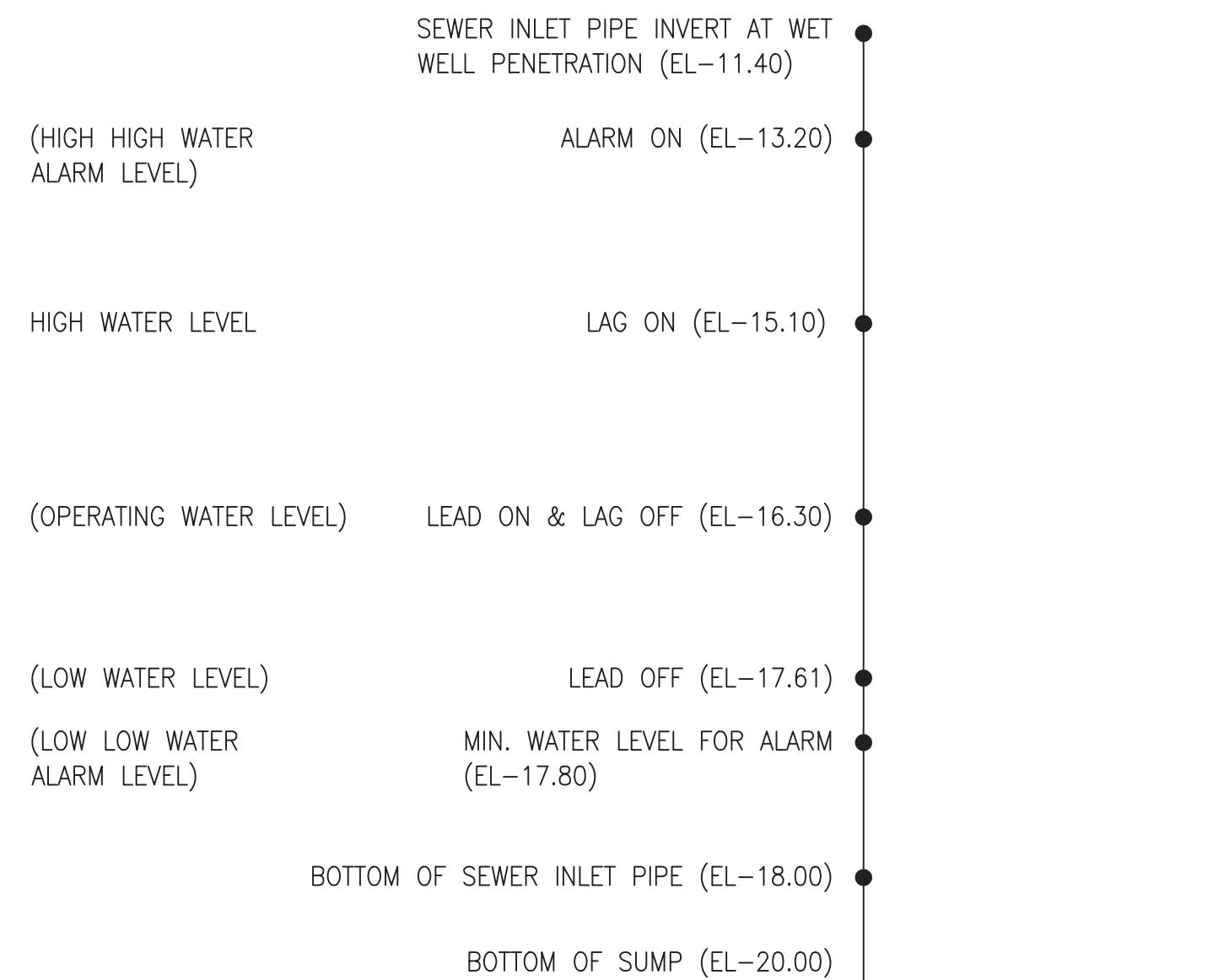
DocuSigned by:  
**Uday Prasad**  
CHIEF HARBOR ENGINEER

SCALE:	AS NOTED
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**PUMP STATION SECTION VIEW**

CONTRACT NO.	2852
PORT DRAWING NO.	19196-4043-M
SHEET NO.	M-5
SHEET OF SHEETS	20 OF 72



PUMP LEVEL CONTROL DIAGRAM

SEQUENCE OF OPERATION:

STAGE I – OPERATION (ESTIMATED INFLUENT 244 GPM), SINGLE PUMP OPERATION

WHEN THE LIQUID LEVEL REACHES THE OPERATING WATER LEVEL (AT EL -16.30), THE LEAD PUMP SHALL BE TURNED ON UNTIL THE WATER LEVEL DROPS TO LOW WATER LEVEL (EL -17.61).

STAGE II – OPERATION (ESTIMATED INFLUENT 394 GPM), TWO PUMPS OPERATION

WHEN THE LIQUID LEVEL REACHES THE HIGH WATER LEVEL (AT EL -15.10), LAG PUMP SHALL BE TURNED ON UNTIL THE LIQUID LEVEL DROPS TO OPERATING WATER LEVEL (AT EL -16.30). AFTER LIQUID LEVEL DROPS TO OPERATING WATER LEVEL (AT EL -16.30), LAG PUMP SHALL TURN OFF AND SEQUENCE SHALL RETURN TO STAGE I PUMP OPERATION.

PUMP ALTERNATE CYCLE:

THE LEAD AND LAG PUMP SHALL ALTERNATE ON A WEEKLY BASIS (OR USER DEFINED TIME PERIOD) AS FOLLOWS:

LEAD & LAG: SP-1 & SP-3      STANDBY/ALTERNATING: SP-2 & SP-4  
 LEAD & LAG: SP-2 & SP-4      STANDBY/ALTERNATING: SP-3 & SP-1  
 LEAD & LAG: SP-3 & SP-1      STANDBY/ALTERNATING: SP-4 & SP-2  
 LEAD & LAG: SP-4 & SP-2      STANDBY/ALTERNATING: SP-1 & SP-3

HIGH WATER ALARM

WHEN LIQUID LEVEL REACHES HIGH HIGH WATER LEVEL (AT EL -13.20), VISUAL ALARM SHALL BE ACTIVATED AND ALARM SIGNAL SHALL BE SENT TO PORT FACILITY.


LOW WATER ALARM

WHEN LIQUID LEVEL DROPS TO LOW LOW WATER LEVEL (AT EL -17.80), ALARM SHALL BE ACTIVATED AND ALARM SIGNAL SHALL BE SENT TO PORT FACILITY. ALL FOUR PUMPS SHALL BE HARDWIRED TO SHUT OFF.

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,490

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS


**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
 DEPARTMENT OF ENGINEERING



DESIGNED: DATE:	PUBLIC WORKS APPROVALS
KL/JC 12/2023	SECTION MANAGER DATE: 02/12/2024
DRAWN: DATE:	DATE: 02/14/2024
CE 12/2023	DEPUTY BUREAU MANAGER DATE: 03/18/2024
CHECKED: DATE:	BUREAU MANAGER DATE:
JN 12/2023	

APPROVED BY  
 SAN FRANCISCO PORT COMMISSION  
 DATE: 5/16/2024  
 Uday Prasad  
 CHIEF HARBOR ENGINEER

SCALE:	NONE
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**  
  
**PUMP CONTROL AND LADDER DIAGRAM**

CONTRACT NO.	2852
PORT DRAWING NO.	19197-4043-M
SHEET NO.	M-6
SHEET OF SHEETS	21 OF 72

**MINIMUM REQUIRED BEARING AREA OF HORIZONTAL THRUST BLOCKS AGAINST UNDISTURBED EARTH**

PIPE DIAMETER	AREA IN SQUARE FEET AT FITTINGS				
	TEE & END CAP	90° ELL	45° ELL	22 1/2° ELL	11 1/4° ELL
DOMESTIC WATER AND WASTEWATER PIPING: DESIGN PRESSURE = 150 PSI					
4"	1	2	1	1	1
6"	2	3	2	1	1
FIRE PROTECTION AND IRRIGATION WATER PIPELINES: DESIGN PRESSURE = 250 PSI					
4"	2	3	2	1	1
6"	4	5	3	2	1
8"	6	9	5	2	1
12"	13	18	10	5	3
14"	20	24	15	8	6

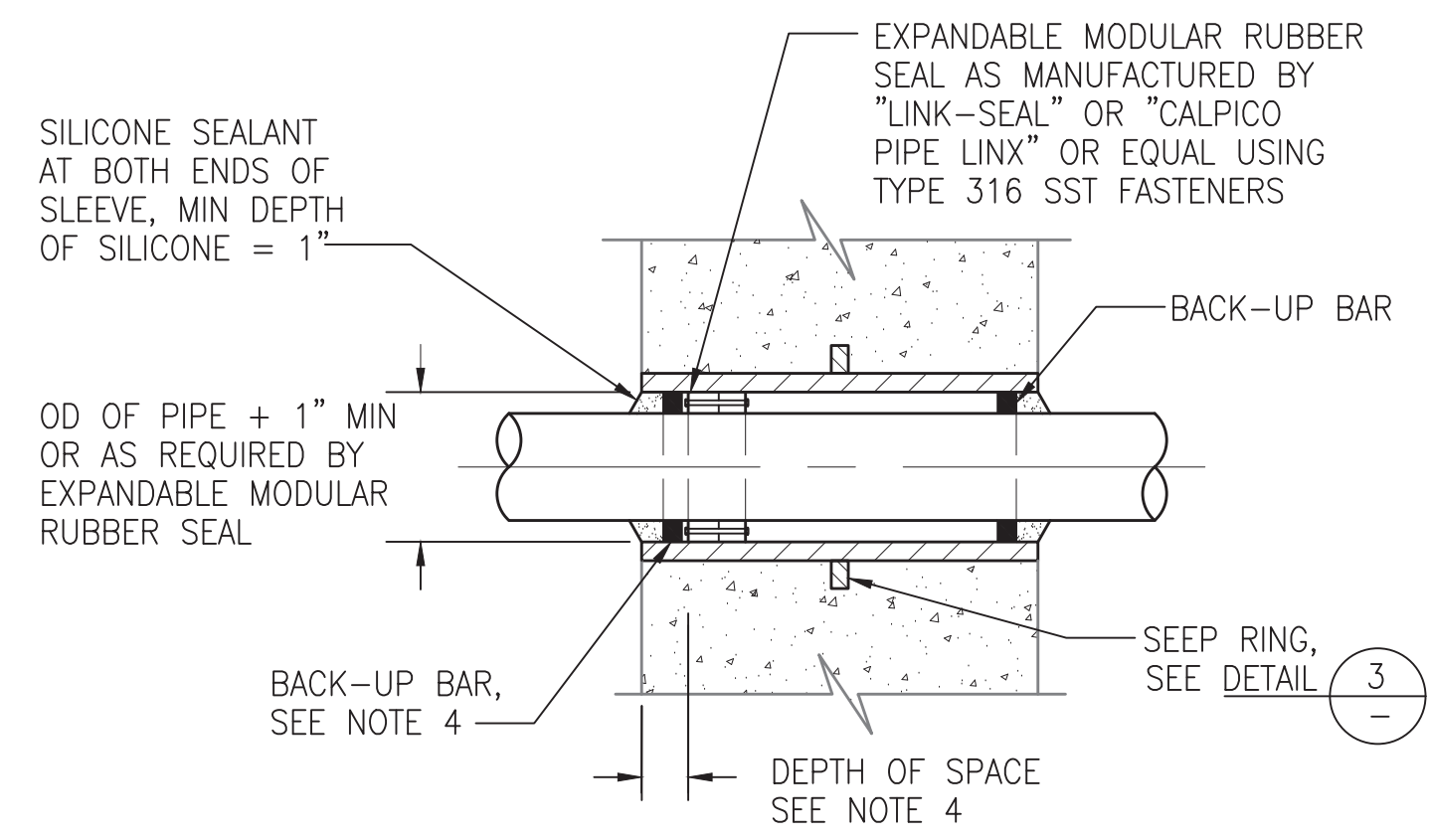
**NOTES:**

- DETAIL IS SHOWN FOR REFERENCE ONLY. THRUST BLOCKS SHALL BE DESIGN-BUILT BY A STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR.
- THRUST BLOCKS SHALL BE PLAIN CONCRETE POURED AGAINST UNDISTURBED EARTH.
- CAPS AND PLUGS SHALL HAVE THRUST BLOCKS WITH AREAS AS SPECIFIED FOR TEES. POLYETHYLENE WRAP SHALL BE IN PLACE BEFORE THRUST BLOCKS ARE POURED.
- AREA GIVEN IS IN A PLANE AT RIGHT ANGLES TO THE LINE OF RESULTANT THRUST.
- THRUST BLOCKS ARE DESIGNED FOR SANDY SOIL WITH AN ALLOWABLE SOIL BEARING VALUE OF 4000 LB/SF AND A SAFETY FACTOR OF 1.5. AREAS SHALL BE INCREASED FOR SOILS WITH LOWER BEARING VALUES.
- PIPE JOINTS OF FITTINGS SHALL NOT BE COVERED WITH CONCRETE.
- LARGE THRUST BLOCKS WILL REQUIRE EXCAVATION BEYOND THE TRENCH WALL TO OBTAIN THE REQUIRED BEARING AREA.
- INSTALL A THRUST BLOCK ON EACH BURIED, HORIZONTAL DUCTILE IRON PIPE FITTING INCLUDING FLANGED FITTINGS AND RESTRAINED PUSH-ON FITTINGS.
- THRUST BLOCKS SHALL BE INSTALLED FOR BOTH PUSH-ON AND RESTRAINED JOINT DI PIPING.

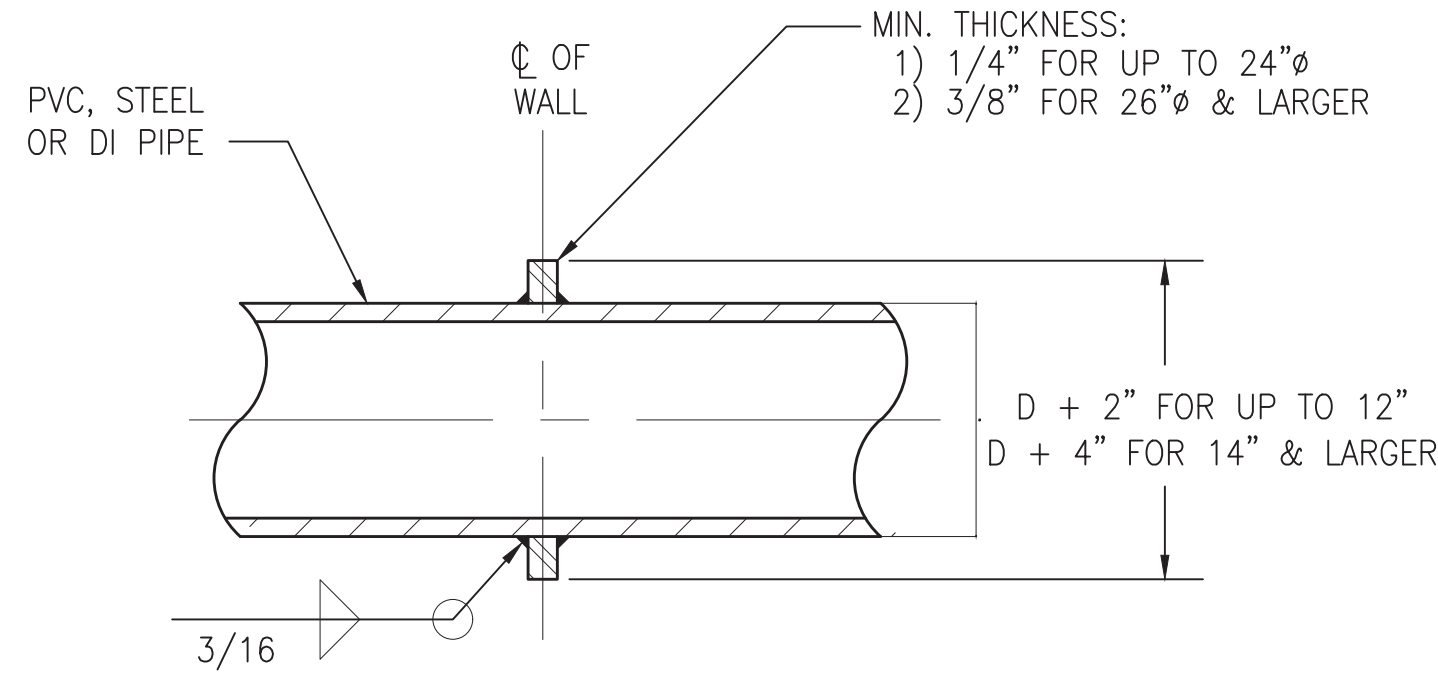
**STANDARD THRUST BLOCK DETAIL 1**  
SCALE: NONE

**NOTES:**

- FOR EXISTING WALL, CORE-DRILL WALL AND GROUT, FULL DEPTH OF WALL, AROUND SLEEVE WITH NON-SHRINK GROUT.
- THIS DETAIL SHALL BE USED FOR BOTH ABOVE AND BELOW GROUND INSTALLATIONS.
- MATERIAL OF WALL SLEEVE SHALL BE TYPE 316 STAINLESS STEEL IN CORROSIVE ENVIRONMENT. GALVANIZED STEEL SHALL BE USED ON NON-CORROSIVE ENVIRONMENT.
- FOR DEPTH OF SPACE = 1" OR SMALLER, SPACE SHALL BE FILLED W/ SILICONE SEALANT WITHOUT BACK-UP BAR. COAT THE END FACE OF RUBBER SEAL W/ BOND BREAKER TO PREVENT SEALANT FROM ADHERING TO RUBBER SEAL.

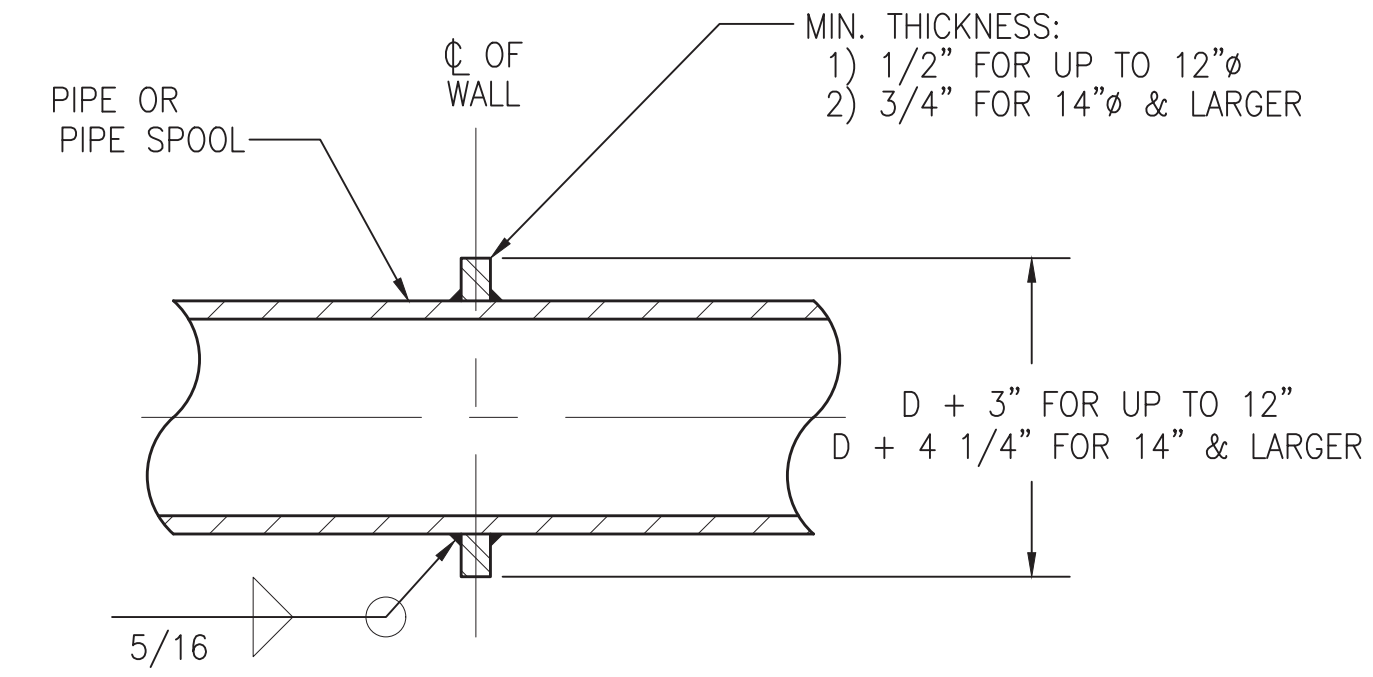


**STANDARD WALL SLEEVE DETAIL 2**  
SCALE: NONE

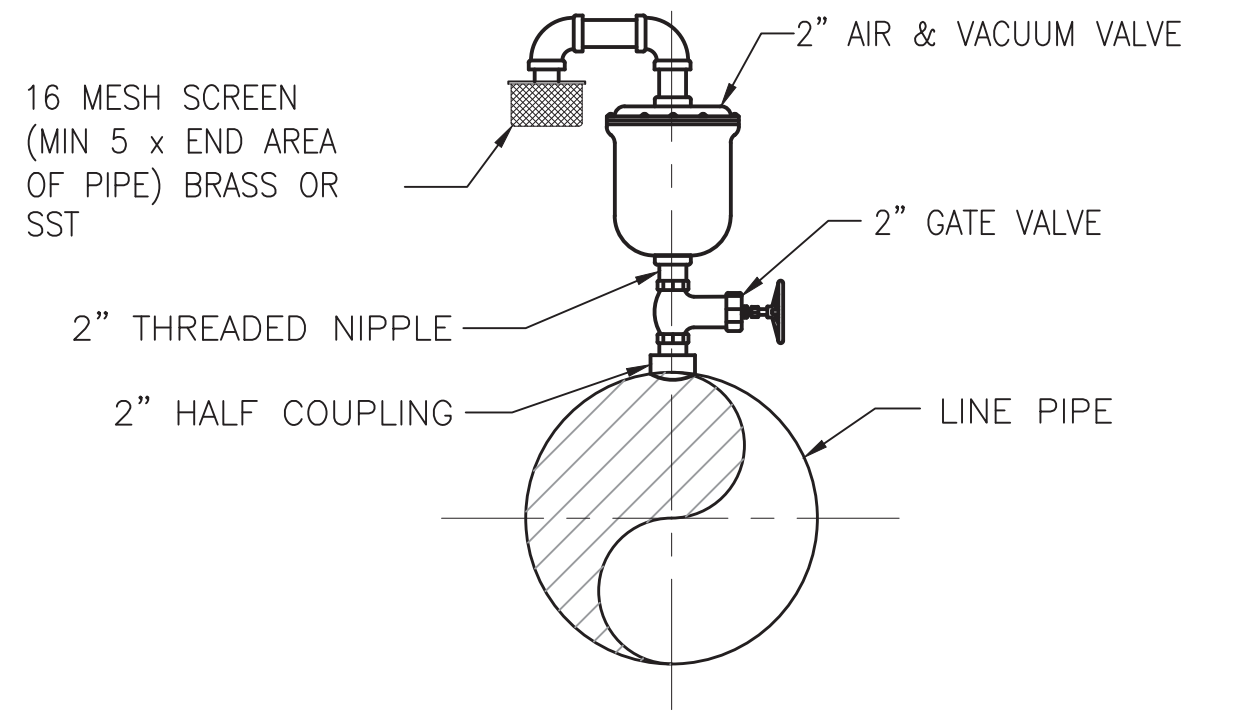


**SEEP RING DETAIL 3**  
SCALE: NONE

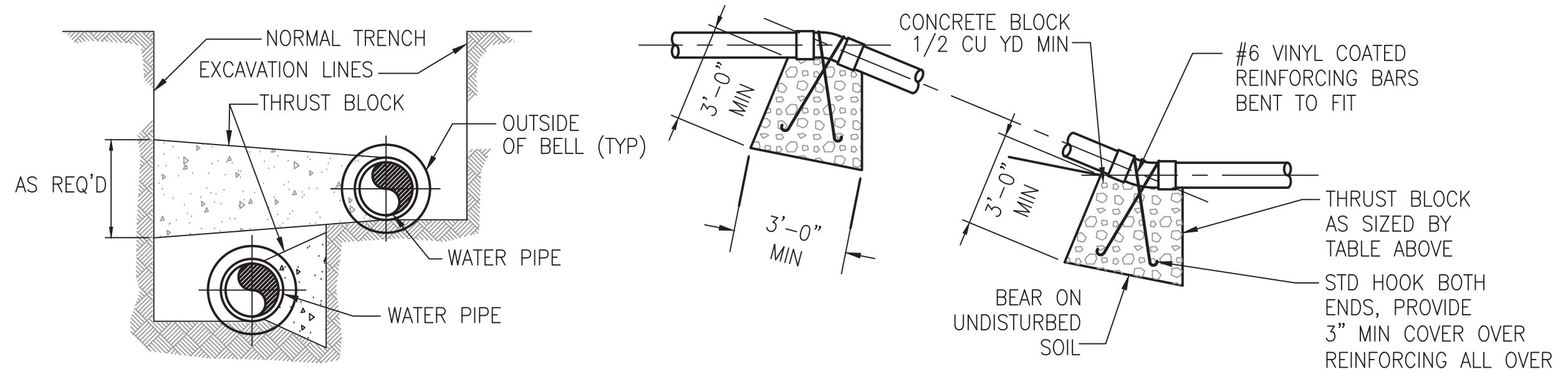
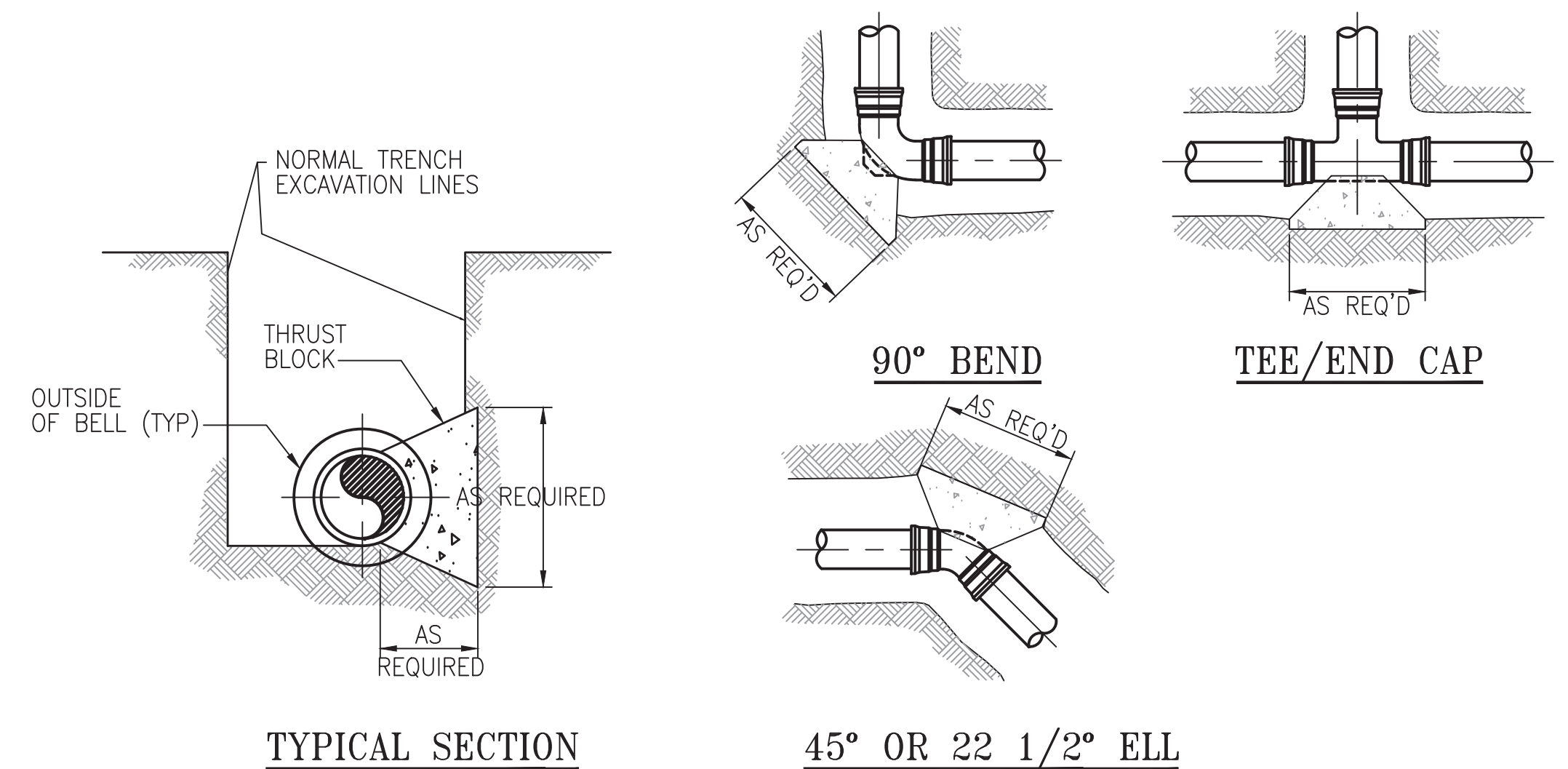
NOTE: THE WELDING INDICATED IS FOR STEEL PIPE ONLY



**ANCHOR RING DETAIL 4**  
SCALE: NONE



**AIR VALVE/AIR VACUUM VALVE DETAIL 5**  
SCALE: NONE



PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,491

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TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

REGISTERED PROFESSIONAL ENGINEER  
MATTHEW E. CHANG  
No. M40988  
MECHANICAL  
STATE OF CALIFORNIA  
02/12/2024

DESIGNED: DATE: 12/2023  
DRAWN: DATE: 12/2023  
CE: DATE: 12/2023  
CHECKED: DATE: 12/2023  
JN

PUBLIC WORKS APPROVALS  
SECTION MANAGER: James M. [Signature] 02/12/2024  
DEPUTY BUREAU MANAGER: [Signature] 02/14/2024  
BUREAU MANAGER: Paul A. [Signature] 03/18/2024

APPROVED BY: Uday Prasad [Signature] 5/16/2024  
CHIEF HARBOR ENGINEER

SCALE: NONE  
REV. NO. 0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**  
**MECHANICAL DETAILS**

CONTRACT NO. 2852  
PORT DRAWING NO. 19198-4043-M  
SHEET NO. M-7  
SHEET OF SHEETS 22 OF 72

A B C D E F G H I J K L M N O P

**PROJECT DESCRIPTION**

- 1. THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS COMPRISES THE DEMOLITION OF AN EXISTING SPILL CONTAINMENT STRUCTURE AND THE CONSTRUCTION OF A NEW UNDERGROUND SEWAGE SUMP TANK AND SPILL CONTAINMENT STRUCTURE.
- 2. PROJECTS WITHIN PORT JURISDICTION REQUIRES AN ENCROACHMENT PERMIT FROM THE PORT.
- 3. THE EXISTING SUMP PUMP AND WET WELL SHALL NOT BE DAMAGED AND MUST REMAIN OPERATIONAL DURING SHORING INSTALLATION AND CONSTRUCTION OF NEW SUMP PIT. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.

**GENERAL**

- 1. THESE GENERAL NOTES APPLY THROUGHOUT ALL STRUCTURAL DRAWINGS EXCEPT WHERE SPECIFICALLY SHOWN BY NOTES ON DRAWINGS AND/OR DETAILS.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE START OF CONSTRUCTION OR FABRICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION OR FABRICATION. ANY DISCREPANCIES, INCONSISTENCIES, OR UNSOUND CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION PRIOR TO THE START OF ANY CONSTRUCTION OR FABRICATION SO THAT A CLARIFICATION CAN BE ISSUED.
- 3. DIMENSIONS ARE TO CENTERLINE OF STEEL FRAMING, FACE OF CONCRETE SURFACES, TOP OF STEEL, OR TOP OF STRUCTURAL SLAB, UNLESS OTHERWISE NOTED.
- 4. DIMENSIONS IN THE STRUCTURAL DRAWINGS ARE AS NOTED. DO NOT USE DIMENSIONS SCALED FROM THE STRUCTURAL DRAWINGS.
- 5. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE CITY AND COUNTY OF SAN FRANCISCO.
- 6. ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS, BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO DETAILS ARE NOTED, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 7. REFER TO OTHER DISCIPLINES' DRAWINGS AND COORDINATE INFORMATION RELATED TO THOSE OTHER DISCIPLINES' SYSTEMS FOR ITEMS SUCH AS:
  - a. FINISH SLAB ELEVATIONS, SLAB DEPRESSIONS, CHANGES IN ELEVATION, SLOPES, DRAINS, CURBS, PADS, INSERTS, ETC.
  - b. PIPE RUNS, SLEEVES, ETC., EXCEPT AS SHOWN OR NOTED.
  - c. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS, ETC., IN WALLS AND SLABS.
  - d. SIZE, LOCATION, ANCHORAGE AND BRACING FOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT.
- 8. FOR OPENINGS LARGER THAN 6" THAT ARE REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT DRAWINGS INDICATING OPENING LOCATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND/OR METHODS OF CONSTRUCTION. ALTHOUGH THE NEED FOR SHORING MAY SOMETIMES BE INDICATED IN THE STRUCTURAL DRAWINGS, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN, PROVIDE, AND MAINTAIN TEMPORARY BRACING, SHORING, CLYING, OR OTHER TEMPORARY SUPPORT AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.
- 10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION OF ADJACENT STRUCTURES DURING CONSTRUCTION. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.
- 11. WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION UNTIL WALL DESIGN STRENGTH HAS BEEN ATTAINED AND ALL PERMANENT SUPPORTS ARE IN PLACE.
- 12. THE USE OF NEW CONSTRUCTION FOR TEMPORARY SUPPORT OR STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS IS RESTRICTED TO THE DESIGN CAPACITY OF THE NEW CONSTRUCTION AT THE TIME IT IS TO BE USED. EQUIPMENT OR MATERIALS SHALL BE PLACED SO AS NOT TO EXCEED THE CAPACITY OF INDIVIDUAL ELEMENTS. PROVIDE ADEQUATE, ENGINEERED SHORING AND/OR BRACING WHERE DESIGN CAPACITY IS NOT SUFFICIENT.
- 13. CONSTRUCTION LOADS SHALL NOT BE PLACED ON NEW CONCRETE CONSTRUCTION FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT.

**FOUNDATIONS**

- 14. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH SOMETIMES INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE SOLELY THE DESIGN RESPONSIBILITY OF OTHERS.
- 15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PIPES, DUCTS, AND UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.
- 16. ALL STRUCTURAL MEMBERS AND ELEMENTS SHOWN ON THE STRUCTURAL DRAWINGS ARE NEW UNLESS NOTED (E) FOR EXISTING CONDITIONS.

**BASIS OF DESIGN**

- 1. ALL NEW CONSTRUCTION SHALL CONFORM TO THE 2022 PORT OF SAN FRANCISCO BUILDING CODE WHICH IS BASED ON THE 2022 CALIFORNIA BUILDING CODE AND 2022 PORT OF SAN FRANCISCO AMENDMENTS.
- 2. THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS REFERENCE BY THE CALIFORNIA BUILDING CODE AND ARE REFERENCED HEREIN BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE PORT OF SAN FRANCISCO BUILDING CODE SHALL GOVERN.
  - ACI 301-20 AMERICAN CONCRETE INSTITUTE, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", 2020 EDITION
  - ACI 318-19 AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
  - AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS", AUGUST 1, 2014
  - AISC 303-10 AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
  - AISC 360-16 AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
  - ASCE 7-16 AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
  - ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS, LATEST EDITION
  - AWS D1.1 AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - STEEL", 2015 EDITION
  - AWS D1.3 AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - SHEET STEEL", 2008 EDITION
  - AWS D1.4 AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - REINFORCING STEEL", 2018 EDITION
  - AWS D1.8 AMERICAN WELDING SOCIETY, "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT", 2016 EDITION

**STRUCTURAL DESIGN CRITERIA**

- 1. DESIGN LIVE LOADS:
  - PUBLIC AREAS: 100 PSF
  - BUOYANCY (ACTING UP ON BOTTOM SLAB) 62.4 PCF \* 17.0 FT = 1061 PSF
- 2. SEISMIC DESIGN CRITERIA:
  - SEISMIC INCREMENT ACTING ON WALLS: 16HT

**FOUNDATIONS**

- 1. THE SEWAGE SUMP TANK AND SPILL CONTAINMENT STRUCTURE DESIGN IS BASED ON THE "GEOTECHNICAL INVESTIGATION, AMADOR STREET SANITARY PUMP STATION IMPROVEMENTS, PREPARED BY T&R/ RYCG, DATED SEPTEMBER 19, 2011" ; "GEOTECHNICAL INVESTIGATION, PIER 94 BACKLAND IMPROVEMENTS", PREPARED BY T&R/RYCG, DATED JULY 5, 2012 ; GEOTECHNICAL MEMORANDUM BY SAN FRANCISCO PUBLIC WORKS "AMADOR STREET SEWER AND PAVEMENT IMPROVEMENT PROJECT-TORQUE DOWN PILE FOR NEW SUMP PIT", DATED JUNE 2, 2020 .
- 2. DESIGN SOIL PARAMETERS:
  - ALLOWABLE BEARING PRESSURE: 200 PSF
  - FRICTION COEFFICIENT : 0.30
  - AT REST EARTH PRESSURE PLUS HYDROSTATIC PRESSURE: 95 PCF
- 3. REFER TO THE GEOTECHNICAL REPORTS FOR ADDITIONAL INFORMATION AND RECOMMENDATIONS NOT NOTED HERE.
- 4. THE CITY'S GEOTECHNICAL ENGINEER SHALL VERIFY THE CONDITIONS AND/OR ADEQUACY OF ALL SUBGRADES, ENGINEERED FILLS, AND BACKFILLS BEFORE PLACEMENT OF FILLS, FOOTINGS, SLABS, OR OTHER CONSTRUCTION DEPENDENT UPON THEM.
- 5. EXCAVATIONS FOR FOOTINGS SHALL BE OBSERVED BY THE CITY'S GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCING AND CONCRETE. THE CONTRACTOR SHALL NOTIFY THE CITY'S GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR OBSERVATION BY THE CITY'S GEOTECHNICAL ENGINEER.
- 6. FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED NATIVE SOIL OR ENGINEERED FILL. ALL FOOTINGS SHALL BE FOUNDED AT A DEPTH AT LEAST 30" BELOW THE LOWEST ADJACENT GRADE. FOOTING DEPTHS SHOWN ON THE STRUCTURAL DRAWINGS ARE MINIMUM DEPTHS AND SHALL BE VERIFIED IN THE FIELD BY THE CITY'S GEOTECHNICAL ENGINEER.
- 7. SIDES OF FOUNDATIONS SHOWN STRAIGHT ARE FORMED. IF SITE CONDITIONS ALLOW AND CITY'S GEOTECHNICAL ENGINEER CONCURS, SIDES OF FOUNDATION MAY BE FORMED OR NOT FORMED AT CONTRACTOR'S OPTION.
- 8. WHERE FOUNDATIONS ARE CAST AGAINST EARTH, SLOPE SIDES OF EXCAVATIONS AS APPROVED BY CITY'S GEOTECHNICAL ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF SLOUGHED MATERIALS BEFORE AND DURING CONCRETE PLACEMENT. CONCRETE COVER FOR REINFORCEMENT MAY BE AFFECTED.
- 9. ENGINEERED FILL BELOW FOOTINGS SHALL BE COMPACTED TO 95% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D1557 COMPACTION TEST METHOD AND UNDER THE OBSERVATION OF THE CITY'S GEOTECHNICAL ENGINEER.
- 10. CONTRACTOR SHALL PROVIDE FOR DE-WATERING. DE-WATERING PLANS SHALL BE SUBMITTED FOR REVIEW. DE-WATERING PLANS SHALL INCLUDE A MONITORING PROGRAM TO EVALUATE SETTLEMENT IN THE ADJACENT STRUCTURES. SEE GEOTECHNICAL REPORT.
- 11. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE THE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH UNLESS SPECIFICALLY APPROVED BY THE CITY'S REPRESENTATIVE IN WRITING. THE CONTRACTOR SHALL BRACE OR PROTECT ALL PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL CONCRETE HAS ATTAINED FULL STRENGTH. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, PERMITS, AND INSTALLATION OF SUCH BRACING.
- 12. OVER-EXCAVATED FOOTINGS SHALL BE BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) (fc'min = 100 PSI, fc'max = 1,200 PSI).
- 13. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF APPROPRIATE, ADEQUATE SHORING AND BRACING OF FOUNDATION EXCAVATION, AND UNDERPINNING OF EXISTING STRUCTURES TO ENSURE PROTECTION OF LIFE AND ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES. UNDERPINNING, SHORING, LAGGING, ETC., SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE OF CALIFORNIA AND SHALL BE CONSTRUCTED UNDER SEPARATE PERMIT. SHORING PLAN SHALL BE SUBMITTED TO THE CITY'S GEOTECHNICAL CITY REPRESENTATIVE ENGINEER FOR REVIEW TO ENSURE CONFORMANCE WITH DESIGN DOCUMENTS.
- 14. THE CONTRACTOR SHALL NOT UNDERMINE EXISTING FOUNDATIONS AND STRUCTURES DURING EXCAVATION. IF UNDERMINING OCCURS, THE CONTRACTOR SHALL PROVIDE CORRECTIVE MEASURES FOR ENGINEER TO REVIEW AND APPROVE AT CONTRACTOR'S EXPENSE.

SHEET INDEX			
SHEET NO.	TITLE	BID SET	REVISION
S-1	GENERAL NOTES	X	
S-2	GENERAL NOTES	X	
S-3	GENERAL NOTES	X	
S-3A	GENERAL NOTES	X	
S-4	TYPICAL CONCRETE DETAILS	X	
S-5	DEMOLITION PLAN AND SECTION	X	
S-6	PLANS	X	
S-7	SECTIONS	X	
S-8	SECTIONS	X	
S-9	DETAILS	X	
S-10	TORQUE DOWN PILES ELEVATION AND DETAILS	X	
		DEC. 2023	

- 15. INSTALLATION OF TORQUE DOWN PILES SHALL BE PERFORMED WHILE UNDER THE OBSERVATION OF THE CITY'S GEOTECHNICAL ENGINEER OF RECORD.
- 16. THE CITY'S GEOTECHNICAL ENGINEER SHALL PREPARE A LETTER FOR THE DEPARTMENT OF BUILDING INSPECTION GIVING AN OPINION REGARDING CONFORMANCE OF THE FOOTING EXCAVATIONS, ENGINEERED FILL COMPACTION, SUBGRADE PREPARATION, AND BACKFILL WITH THE REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT.

**TORQUE DOWN PILES**

- 1. PILE DESIGN CRITERIA:
  - A. PILES TO BE 12 3/4" OUTSIDE DIAMETER STEEL PIPE, FILLED WITH CONCRETE (MINIMUM f'c = 4,000 PSI) THE PILE SHALL BE WITH A CLOSED END CONICAL TIP WELDED TO THE BOTTOM OF THE PIPE, AND THE STEEL PIPE THICKNESS SHALL BE 3/8" MINIMUM.
  - B. ALL PILES SHALL BE DESIGNED IN ACCORDANCE WITH 2022 CALIFORNIA BUILDING CODE (CBC) AND 2022 PORT OF SAN FRANCISCO BUILDING CODE AMENDMENTS.
  - C. THE CONTRACTOR SHALL FOLLOW THE CITY'S GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR TORQUE DOWN PILES TEST PROGRAM AND PRE-DRILLING REQUIREMENTS.
  - D. STEEL PIPE: ASTM A252 GRADE 3, Fy = 45 KSI.
  - E. MILD REINFORCING STEEL: ASTM A706 GRADE 60 DEFORMED BARS.
- 2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE CITY'S REPRESENTATIVE FOR REVIEW AND APPROVAL; INCLUDE STRUCTURAL DESIGN CALCULATIONS, THE PILE TEST PROGRAM, AND PILE INSTALLATION PROCEDURE. ALL DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN CALIFORNIA.
- 3. THE CITY'S GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT ALL PILE INSTALLATION OPERATIONS, REVIEW THE CONTRACTOR'S EQUIPMENTS AND PILE LOGS FOR EACH PILE.
- 4. SEE SPECIFICATION SECTION 31 62 23.13 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- 5. ALL TORQUE DOWN PILES SHALL BE GALVANIZED FOR FULL LENGTH OR PROVIDE CORROSION CONTROL ALTERNATES FOR REVIEW OF CITY REPRESENTATIVE.

**SHORING**



- 1. CONTRACTOR SHALL PROVIDE PERMANENT SHORING AS REQUIRED TO SUPPORT (E) SOILS AND (E) STRUCTURES.
- 2. SHORING SHALL BE DESIGN BUILD. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY LICENSED STRUCTURAL OR CIVIL ENGINEER REGISTERED IN CALIFORNIA FOR REVIEW BY THE CITY REPRESENTATIVE PRIOR TO PROCUREMENT OF SHORING.

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,494

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

2/2024

DESIGNED: DATE: PUBLIC WORKS APPROVALS FOR RAYMOND LUI 3/11/2024  
 SECTION MANAGER DATE: 03/11/2024  
 FERNANDO CISNEROS for DEPUTY BUREAU MANAGER DATE: 03/11/2024  
 CHECKED: DATE: PATRICK RIVERA 01/2024 BUREAU MANAGER  
 RL

APPROVED BY SAN FRANCISCO PORT COMMISSION DATE: 7/3/2024  
 DocuSigned by: Uday Prasad  
 CHIEF HARBOR ENGINEER

SCALE: AS SHOWN

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**GENERAL NOTES**

CONTRACT NO. 2852  
 PORT DRAWING NO. 19199-4043-S  
 SHEET NO. S-1  
 SHEET OF SHEETS 23 OF 72



**SPECIAL INSPECTION, TESTING, STRUCTURAL OBSERVATION, AND SUBMITTALS**

1. WHERE INDICATED WITH AN "X", THE FOLLOWING ITEMS SHALL BE INSPECTED IN ACCORDANCE WITH SFBC 1704 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED SPECIAL INSPECTION AGENCY. "C" INDICATES CONTINUOUS SPECIAL INSPECTION AND "P" INDICATES PERIODIC SPECIAL INSPECTION. THE SPECIAL INSPECTION AGENCY SHALL SEND COPIES OF ALL SPECIAL INSPECTION REPORTS DIRECTLY TO THE RESIDENT ENGINEER, ARCHITECT, ENGINEER, AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

VERIFICATION AND INSPECTION	C	P	NOTES
STEEL CONSTRUCTION			
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X	
2. INSPECTION OF HIGH-STRENGTH BOLTING: 2.1. BEARING-TYPE CONNECTIONS 2.2. SLIP-CRITICAL CONNECTIONS		X	
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL		X	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS		X	
5. INSPECTION OF STRUCTURAL STEEL WELDING: 5.1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS 5.2. MULTI-PASS FILLET WELDS 5.3. SINGLE-PASS FILLET WELDS > 3/16" 5.4. SINGLE-PASS FILLET WELDS ≤ 3/16" 5.5. FLOOR AND ROOF DECK WELDS 5.6. WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGMS 5.7. WELDED SHEET STEEL FOR COLD-FORMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS 5.8. WELDING OF STAIRS AND RAILING SYSTEMS 5.9. INSPECTION OF STEEL FRAME JOINT DETAILS FOR AND COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		X	
			INCLUDES MEMBER LOCATIONS, DETAILS SUCH AS JOINTS, BRACING & STIFFENING

VERIFICATION AND INSPECTION	C	P	NOTES
CONCRETE CONSTRUCTION			
1. INSPECTION OF REINFORCING STEEL PLACEMENT		X	
2. INSPECTION OF REINFORCING STEEL WELDING 2.1. VERIFICATION OF WELDABILITY 2.2. REINFORCING STEEL RESISTING FLEXURAL & AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS 2.3. SHEAR REINFORCEMENT 2.4. OTHER REINFORCING STEEL		X	
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE			
4. VERIFY USE OF REQUIRED DESIGN MIX		X	
5. FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF CONCRETE		X	
6. INSPECTION OF CONCRETE & SHOTCRETE PLACEMENT	X		
7. INSPECTION OF CONCRETE CURING		X	
8. INSPECTION OF PRESTRESSED CONCRETE 8.1. APPLICATION OF PRESTRESSING FORCES 8.2. GROUTING OF BONDED PRESTRESSING TENDONS			
9. ERECTION OF PRECAST CONCRETE MEMBERS			
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH			
11. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	

VERIFICATION AND INSPECTION	C	P	NOTES
SOILS			
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIRED BEARING CAPACITY		X	BY GEOTECHNICAL ENGINEER
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND REACHED PROPER MATERIAL		X	BY GEOTECHNICAL ENGINEER
3. PERFORM CLASSIFICATION AND TESTING OF ENGINEERED FILL MATERIAL		X	BY GEOTECHNICAL ENGINEER
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF ENGINEERED FILL		X	BY GEOTECHNICAL ENGINEER
5. PRIOR TO PLACEMENT OF ENGINEERED FILL, OBSERVE SUBGRADE & VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	BY GEOTECHNICAL ENGINEER

VERIFICATION AND INSPECTION	C	P	NOTES
PILE FOUNDATIONS			
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN RECORDS FOR EACH PILE		X	BY GEOTECHNICAL ENGINEER
2. VERIFY LOCATIONS OF PILES AND PLUMBNESS 2.1. CONFIRM PIER DIAMETERS 2.2. BELL DIAMETERS (IF APPLICABLE) 2.3. LENGTHS, EMBEDMENT INTO DENSE SAND LAYER 2.4. ADEQUATE END STRATA BEARING CAPACITY		X	BY GEOTECHNICAL ENGINEER

2. WHERE INDICATED WITH AN "X", THE FOLLOWING ITEMS SHALL BE SAMPLED AND/OR TESTED BY A CERTIFIED TECHNICIAN FROM AN ESTABLISHED MATERIALS TESTING LABORATORY IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, GENERAL NOTES, OR PREVAILING BUILDING, WHICHEVER IS MORE STRINGENT. ALL MATERIAL SAMPLING AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM REQUIREMENTS. THE MATERIALS TESTING LABORATORY SHALL SEND COPIES OF ALL STRUCTURAL TESTING REPORTS DIRECTLY TO THE RESIDENT ENGINEER, ARCHITECT, ENGINEER, AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

STRUCTURAL TESTING FOR SEISMIC RESISTANCE	REQ'D	NOTES
ITEMS		
MASONRY		
1. COMPRESSIVE STRENGTH TESTS FOR MINIMUM COMPRESSIVE STRENGTH, f <sub>m</sub> ' AND f <sub>aa</sub> '		
CONCRETE		
1. COMPRESSIVE STRENGTH TESTS FOR CONCRETE WITH SPECIFIED MINIMUM COMPRESSIVE STRENGTH, f <sub>c</sub> ' OF 3,000 PSI OR GREATER AT 28 DAYS	X	
2. SHOTCRETE TEST PANELS AND CORE SAMPLES		
REINFORCING AND PRESTRESSING STEEL		
1. WELDABILITY OF REINFORCEMENT, EXCEPT THAT WHICH CONFORMS WITH ASTM A706		
STRUCTURAL STEEL		
1. TESTING CONTAINED IN THE QUALITY ASSURANCE PLAN		
2. BASE METAL THICKER THAN 1/2"		ULTRASONIC TESTING FOR DISCONTINUITIES BEHIND & ADJACENT TO WELDS SUBJECT TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS
POST-INSTALLED ANCHOR BOLTS IN CONCRETE AND MASONRY		
1. TENSILE TEST	X	MINIMUM OF 5% OF ALL POST INSTALLED ANCHORS

3. THE ENGINEER OF RECORD SHALL PROVIDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, BELOW, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND INDICATED WITH AN "X" SPECIFICATIONS AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS AND SPECIAL INSPECTIONS REQUIRED BY THE SFBC.

STRUCTURAL OBSERVATION REQUIREMENTS	REQ'D	NOTES
FOUNDATIONS		
1. ISOLATED & CONTINUOUS FOOTINGS, STEM WALLS		
2. MAT FOUNDATIONS	X	
3. PIERS, CAISSONS, PILES, PILE CAPS		
4. RETAINING WALLS, HILLSIDE CONSTRUCTION		
WALLS, SLABS		
1. LIGHT-FRAMED SHEAR WALLS, INCLUDING HOLDOWN INSTALLATION AND SHEATHING NAILING		
2. CONCRETE WALLS, SLABS, INCLUDING REINFORCING STEEL PLACEMENT AND CONCRETE PLACEMENT	X	
3. MASONRY SHEAR WALLS, INCLUDING REINFORCING STEEL PLACEMENT AND GROUT PLACEMENT		
4. STEEL SHEAR WALLS		
MOMENT-RESISTING FRAMES		
1. CONCRETE MOMENT-RESISTING FRAMES, INCLUDING REINFORCING STEEL PLACEMENT & CONCRETE PLACEMENT		
2. STEEL MOMENT-RESISTING FRAMES		
BRACED FRAMES		
1. STEEL BRACED FRAMES		
HORIZONTAL ROOF AND FLOOR DIAPHRAGMS		
1. CONCRETE		
2. STEEL DECK, CONCRETE ON STEEL DECK		
3. WOOD		
4. CHORDS AND/OR COLLECTORS		
OTHER		


4. WHERE INDICATED WITH AN "X" BELOW, THE CONTRACTOR SHALL SUBMIT CERTIFICATES OF CONFORMANCE, SHOP DRAWINGS, CALCULATIONS, AND DETAILS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. WHERE CALCULATIONS AND DETAILS ARE REQUIRED, THE SUBMITTAL SHALL BE SEALED AND SIGNED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE OF CALIFORNIA. FOR ADDITIONAL INFORMATION REGARDING SUBMITTALS, SEE SPECIFICATIONS.

ITEM	CERTIFICATES	SHOP DRAWINGS	CALCULATIONS & DETAILS	REMARKS
CONCRETE, REINFORCING	X	X		
CONCRETE, MIX DESIGN		X		
CONCRETE, CEMENT	X			
CONCRETE, FINE AGGREGATES	X			
CONCRETE, COARSE AGGREGATES	X			
CONCRETE, ADMIXTURES	X			
SHOTCRETE, MIX DESIGN				
PRECAST CONCRETE MEMBERS				
STRUCTURAL STEEL	X	X		
OPEN WEB JOISTS				
METAL DECKING WITH STUD LAYOUT				
SHORING SYSTEM		X	X	

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,496

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**



REGISTERED PROFESSIONAL ENGINEER  
FRANKY PIRUZANO  
No. S6277  
STRUCTURAL  
STATE OF CALIFORNIA  
2/2024

DESIGNED: DATE: PUBLIC WORKS APPROVALS  
FOR RAYMOND LUI 3/11/2024  
SECTION MANAGER DATE:  
DRAWN: DATE: Fernando Cisneros 03/11/2024  
JE/JG DATE: 02/2020  
DEPUTY BUREAU MANAGER DATE:  
CHECKED: DATE: Fernando Cisneros 03/11/2024  
PATRICK RIVERA  
BUREAU MANAGER DATE:  
RL 01/2024

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 7/3/2024  
DocuSigned by:  
Uday Prasad  
98F5480759E04DD  
CHIEF HARBOR ENGINEER

SCALE:  
AS SHOWN  
REV. NO.  
0

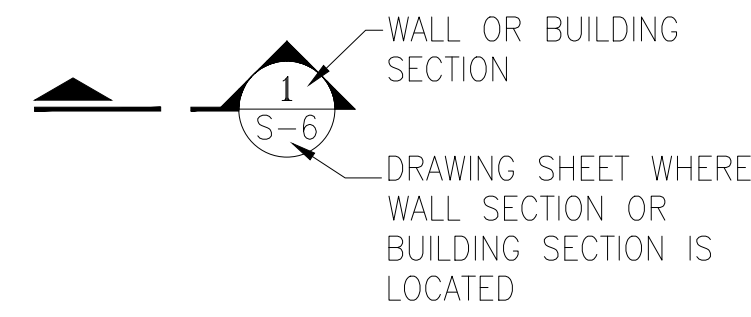
**AMADOR STREET  
INFRASTRUCTURE IMPROVEMENTS**

**GENERAL NOTES**

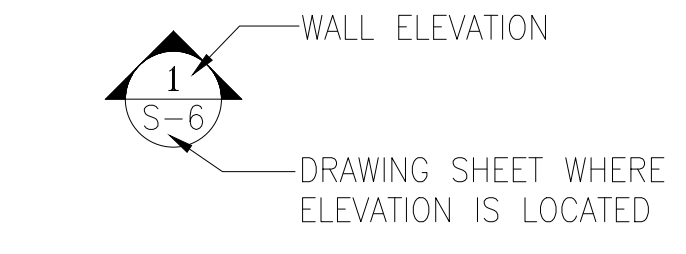
CONTRACT NO.  
2852  
PORT DRAWING NO.  
19201-4043-S  
SHEET NO.  
S-3  
SHEET OF SHEETS  
25 OF 72

LEGEND

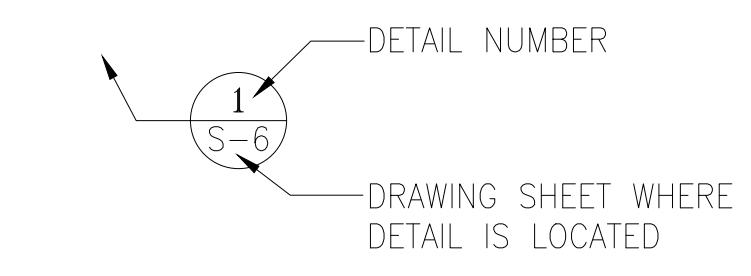
WALL SECTION AND BUILDING SECTION:



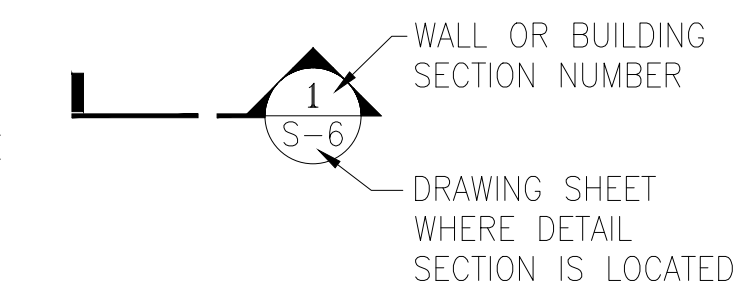
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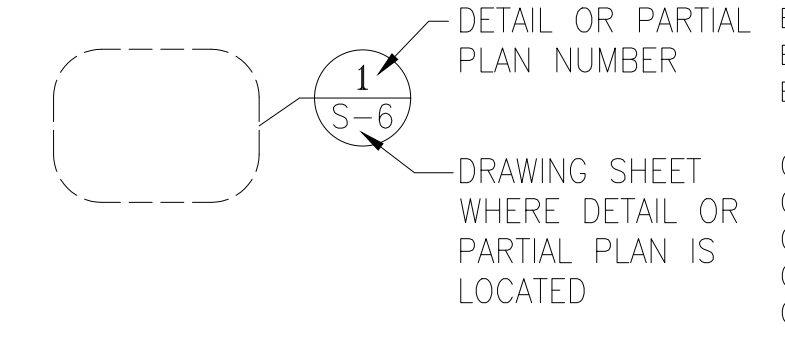
DETAIL REFERENCE:



DETAIL SECTION REFERENCE:



DETAIL OR PARTIAL PLAN REFERENCE:



ABBREVIATIONS

A.B.	ANCHOR BOLT	MAT'L	MATERIAL
ACI	AMERICAN CONCRETE INSTITUTE	MAX	MAXIMUM
ADDT'L	ADDITIONAL	MECH	MECHANICAL
ADJ	ADJACENT	MET	METAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MIN	MINIMUM
ASTM	AMERICAN STANDARDS TESTING AND MATERIALS	MISC	MISCELLANEOUS
AWS & @	AMERICAN WELDING SOCIETY AND AT	(N)	NEW
B, BOT	BOTTOM	NDT	NON-DESTRUCTIVE TESTING
B.O.	BOTTOM OF	N.I.C.	NOT IN CONTRACT
B.O.E.	BOTTOM OF EXCAVATION	N.T.S.	NOT TO SCALE
B.O.F.	BOTTOM OF FOOTING	NO.	NUMBER
B.O.S.	BOTTOM OF STEEL	NOM	NOMINAL
B.O.W.	BOTTOM OF WALL	N.W.C.	NORMAL WEIGHT CONCRETE
B.S.	BOTH SIDE	O.C.	CENTER
BET, BTWN	BETWEEN	O.D.	OUTSIDE DIAMETER
CBC	CALIFORNIA BUILDING CODE AND COUNTY OF SAN FRANCISCO	O.F.	OUTER FACE
CCSF	CHECKERED PLATE	OPP HD	OPPOSITE HAND
CHK PL	CHECKERED PLATE	OPNG	OPENING
C.J.	CONTROL JOINT	OPP	OPPOSITE
C.J.P.	COMPLETE JOINT PENETRATION	P.J.P.	PARTIAL JOINT PENETRATION
CL	CENTER LINE	PL	PLATE
CLR	CLEAR	P.L.	PROPERTY LINE
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUOUS	R	RADIUS
CTR	CENTER	R.C.	COMPACTION REINFORCING, REINFORCEMENT, REINFORCED
DBL	DOUBLE	REINF	REINFORCING, REINFORCEMENT, REINFORCED
DET	DETAIL	REQ'D	REQUIRED
DIA, Ø	DIAMETER	RET	RETAIN, RETAINING
DIA	DIAGONAL	R.O.	ROUGH OPENING
DIM	DIMENSION	S.E.D	SEE ELECTRICAL DRAWING
DIR	DIRECTION	S.H.D.	SEE HYDRAULIC DRAWING
DN	DOWN	S.M.D.	SEE MECHANICAL DRAWING
DWG	DRAWING	S.P.D.	SEE PLUMBING DRAWING
(E)	EXISTING	SCHED	SCHEDULE
EA	EACH	SEC	SECTION
E.F.	EACH FACE	SFBC	SAN FRANCISCO BUILDING CODE SHEET
EL, ELEV	ELEVATION	SHT	SHEET
ELEC	ELECTRICAL	SIM	SIMILAR
EMBED	EMBEDMENT	S.O.G.	SLAB-ON-GRADE
EQ	EQUAL	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	S.S.	STAINLESS STEEL
E.S.	EACH SIDE	SQ	SQUARE
E.W.	EACH WAY	STD	STANDARD
E.J.	EXPANSION JOINT	STIFF	STIFFENER
EXT	EXTERIOR	STIR	STIRRUP
F.F.	FINISH FLOOR	STL	STEEL
F.G.	FINISH GRADE	STRUCT	STRUCTURAL
FIN	FINISH	SYM	SYMMETRICAL
FL	FLOOR	T	TOP
FNDN	FOUNDATION	T & B	TOP AND BOTTOM
F.O.C.	FACE OF CONCRETE	THK	THICK
F.O.F.	FACE OF FINISH	THRU	THROUGH
FRP	FIBER REINFORCED PLASTIC	T.O.	TOP OF
FT	FOOT, FEET	T.O.C.	TOP OF CONCRETE
FTC	FOOTING	T.O.S.	TOP OF STEEL
GA	GAGE	T.O.W.	TOP OF WALL
GALV	GALVANIZED	TYP	TYPICAL
H, HORIZ	HORIZONTAL	U.O.N.	UNLESS OTHERWISE NOTED
H.S.B.	HIGH STRENGTH BOLT	V, VERT	VERTICAL
HSS	HOLLOW STRUCTURAL SECTION	V.I.F.	VERIFY IN FIELD
HT	HEIGHT	W/	WITH
ICC	INTERNATIONAL CODE COUNCIL	WD	WOOD
I.D.	INSIDE DIAMETER	WF	WIDE FLANGE
I.F.	INNER FACE	W.R.T.	WITH RESPECT TO
IN	INCHES	WT	WEIGHT
INFO	INFORMATION	W.W.F.	WELDED WIRE FABRIC
INT	INTERIOR		
JT	JOINT		
L	ANGLE		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,496.1

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**




DESIGNED: DATE:	02/2020	PUBLIC WORKS APPROVALS
FOR	RAYMOND LUI	3/11/2024
SECTION MANAGER		
DATE:	03/11/2024	
DESIGNED: DATE:	02/2020	FERNANDO CISNEROS for
FOR	PATRICK RIVERA	03/11/2024
DEPUTY BUREAU MANAGER		
DATE:	01/2024	
CHECKED: DATE:	01/2024	
FOR		

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 7/3/2024

DocuSigned by:  
**Uday Prasad**  
99548817560440  
CHIEF HARBOR ENGINEER

SCALE:  
AS SHOWN

REV. NO.  
0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

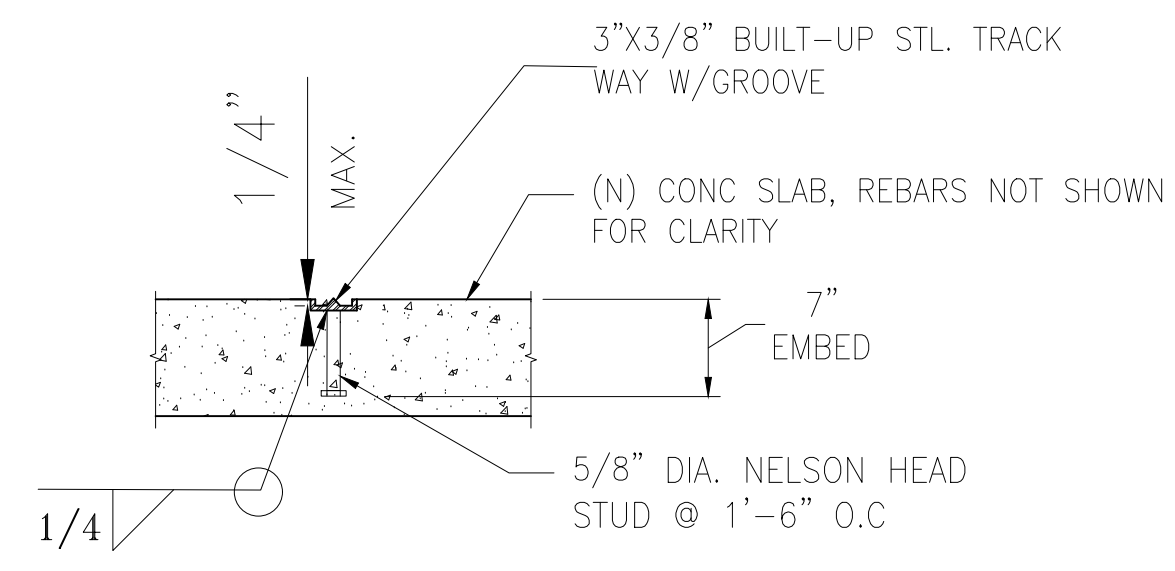
**GENERAL NOTES**

CONTRACT NO.  
2852

PORT DRAWING NO.  
19201.1-4043-S

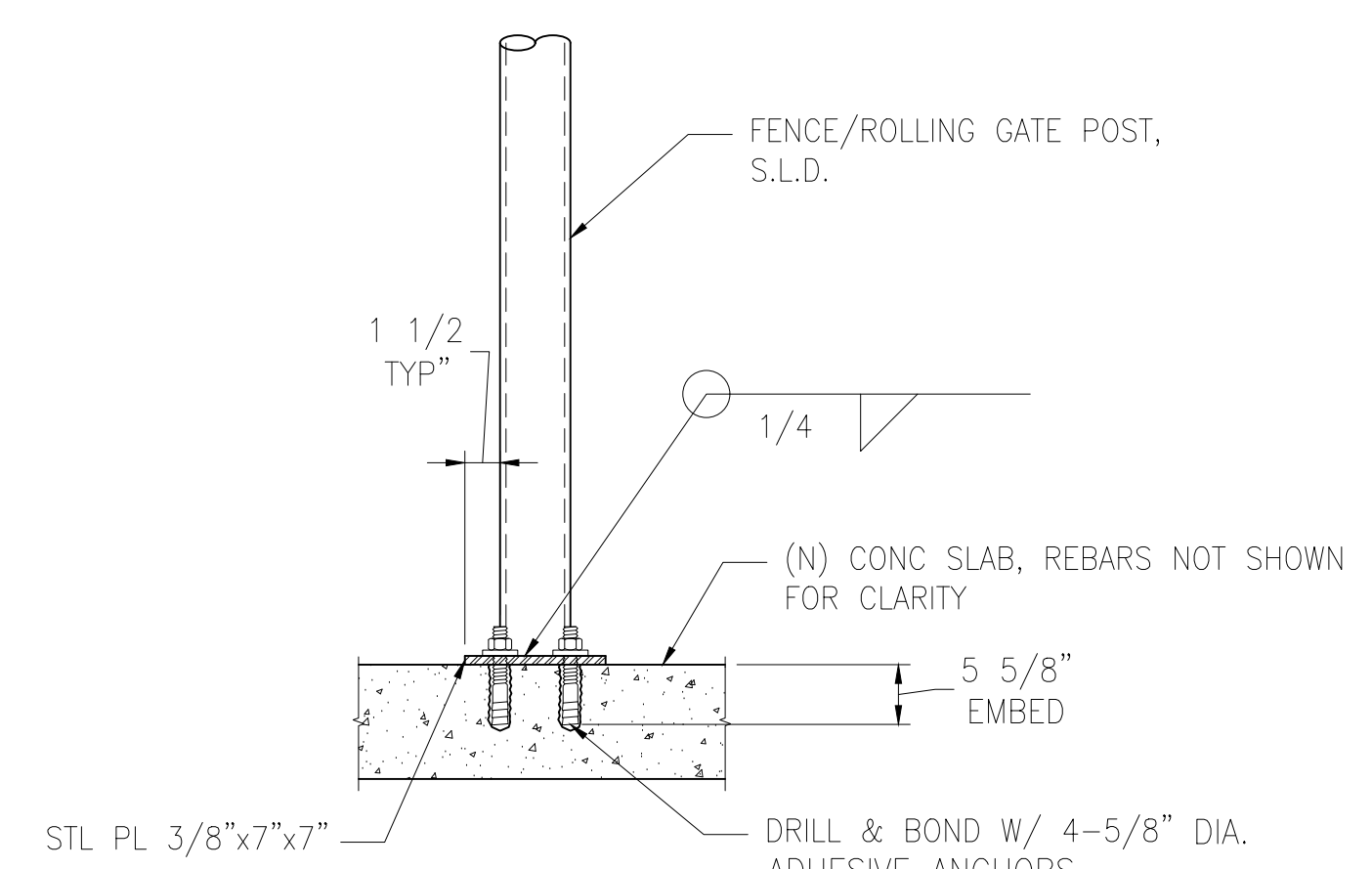
SHEET NO.  
S-3A

SHEET OF SHEETS  
26 OF 72



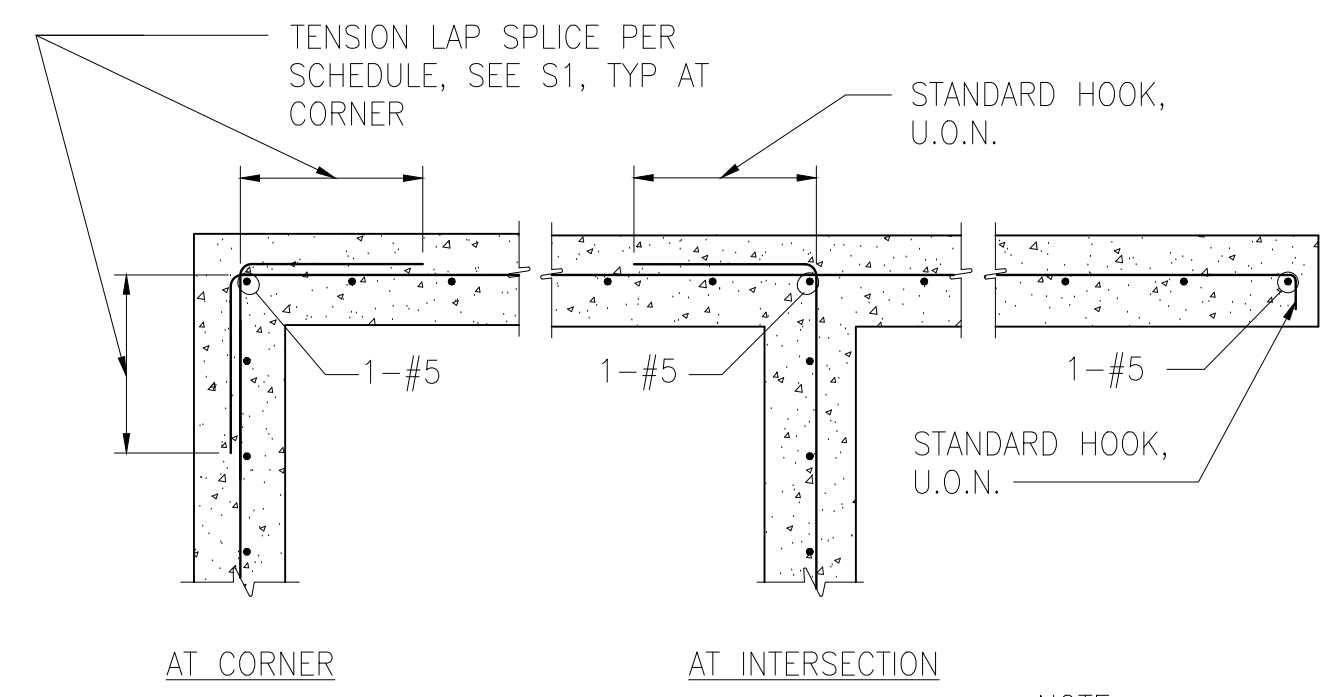
NOTE  
ALL STEEL SHALL BE HOT-DIPPED GALVANIZED

**TYPICAL DETAIL ROLLING GATE WHEEL TRACK**  
SCALE: N.T.S.

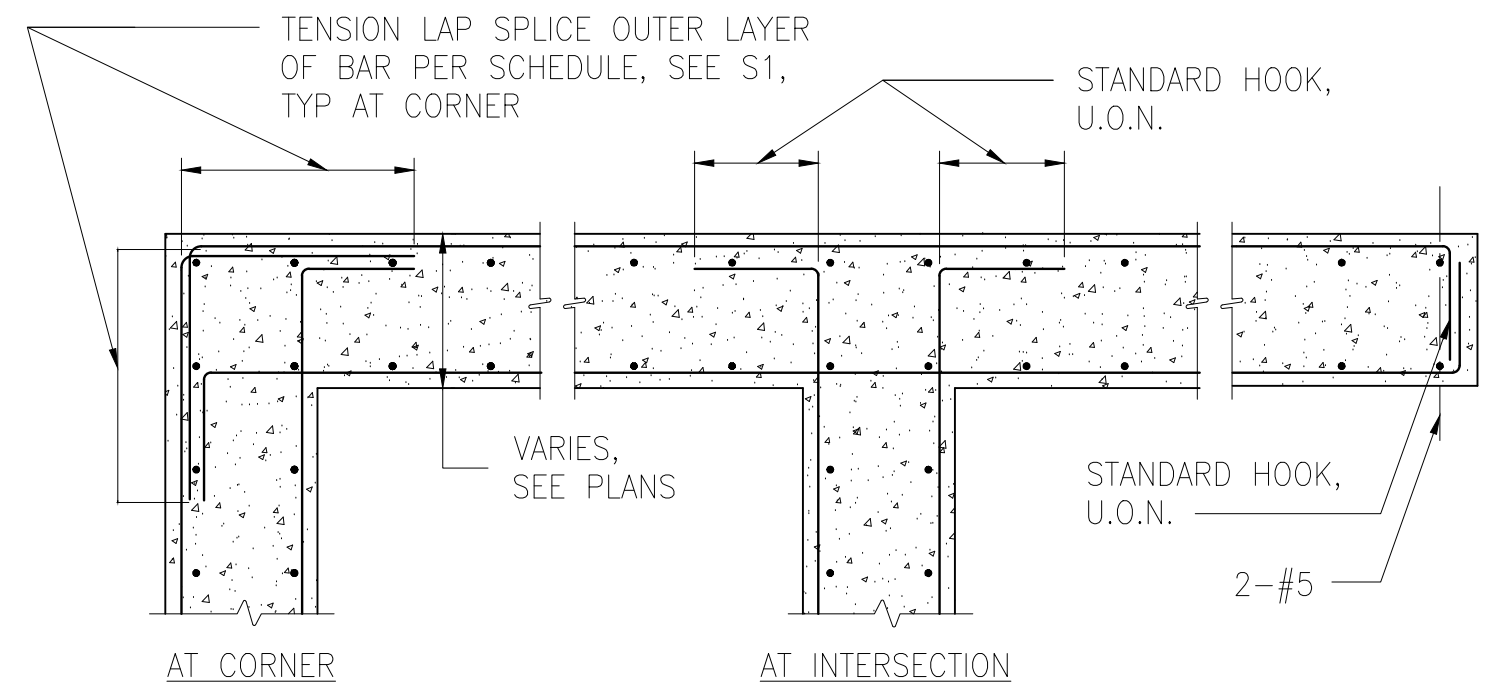


NOTE  
ALL STEEL SHALL BE HOT-DIPPED GALVANIZED

**TYPICAL ANCHORAGE DETAIL FOR FENCE AND ROLLING GATE POST OVER THE SLAB**  
SCALE: N.T.S.

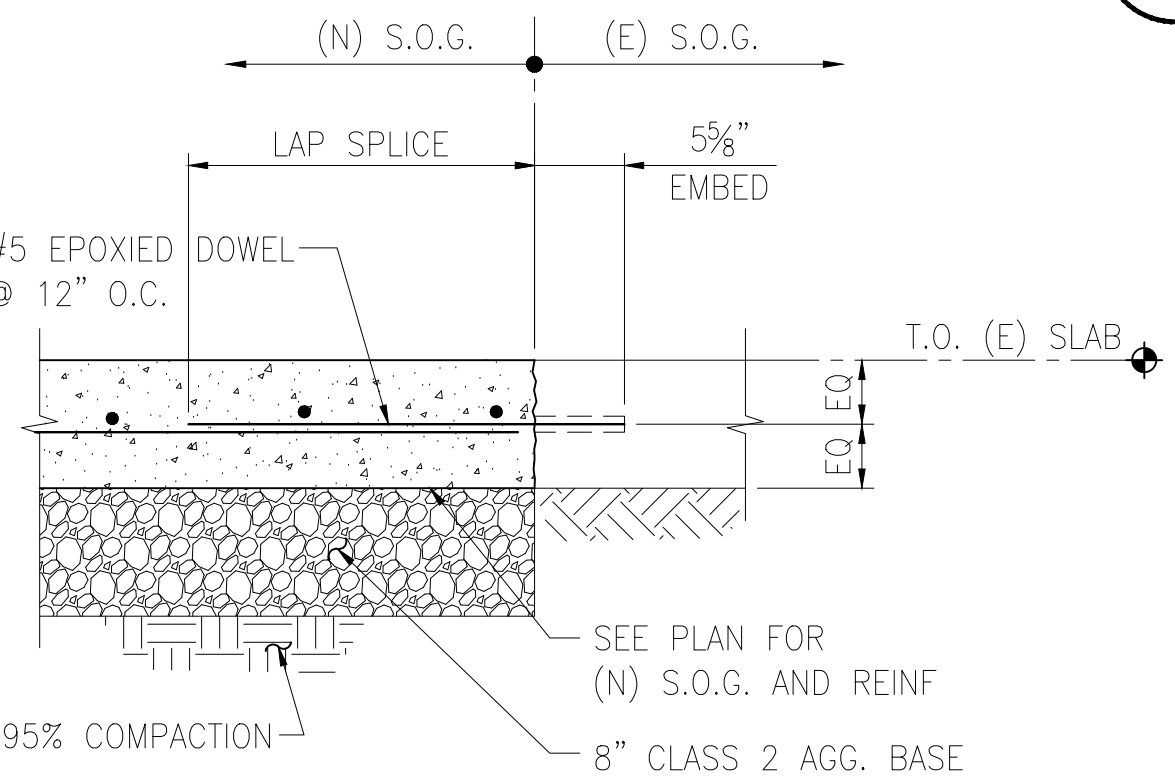


**SINGLE CURTAIN REINF. DETAILS**  
SCALE: N.T.S.

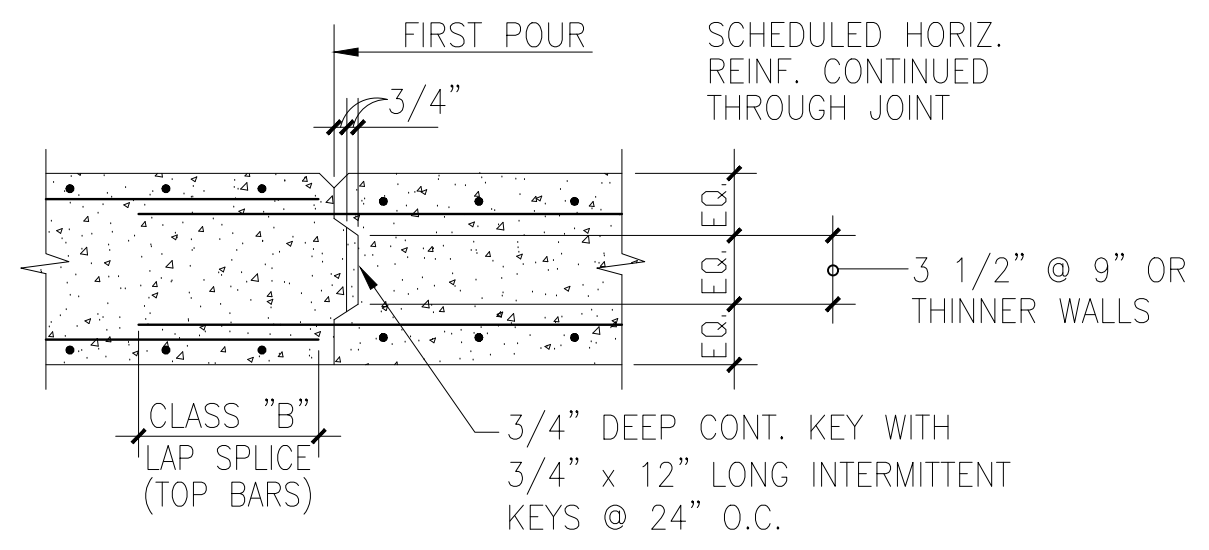


**DOUBLE CURTAIN REINF. DETAILS**  
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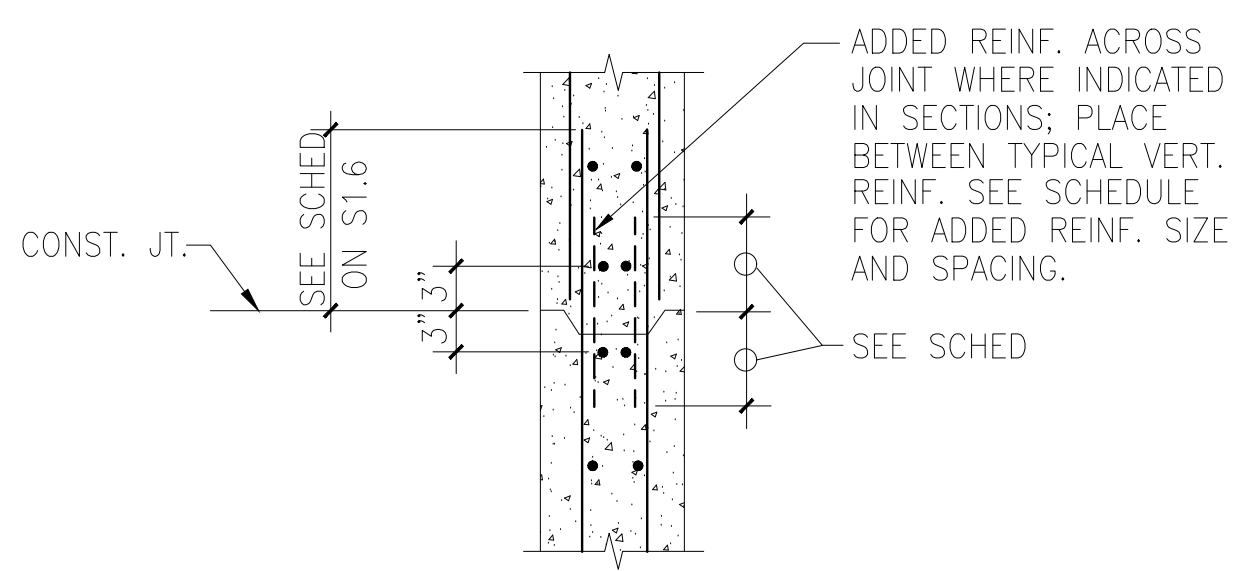
**TYPICAL CONCRETE REINFORCEMENT AT CORNERS AND INTERSECTIONS**  
SCALE: N.T.S.



**SECTION**  
SCALE: N.T.S.



**PLAN VIEW**



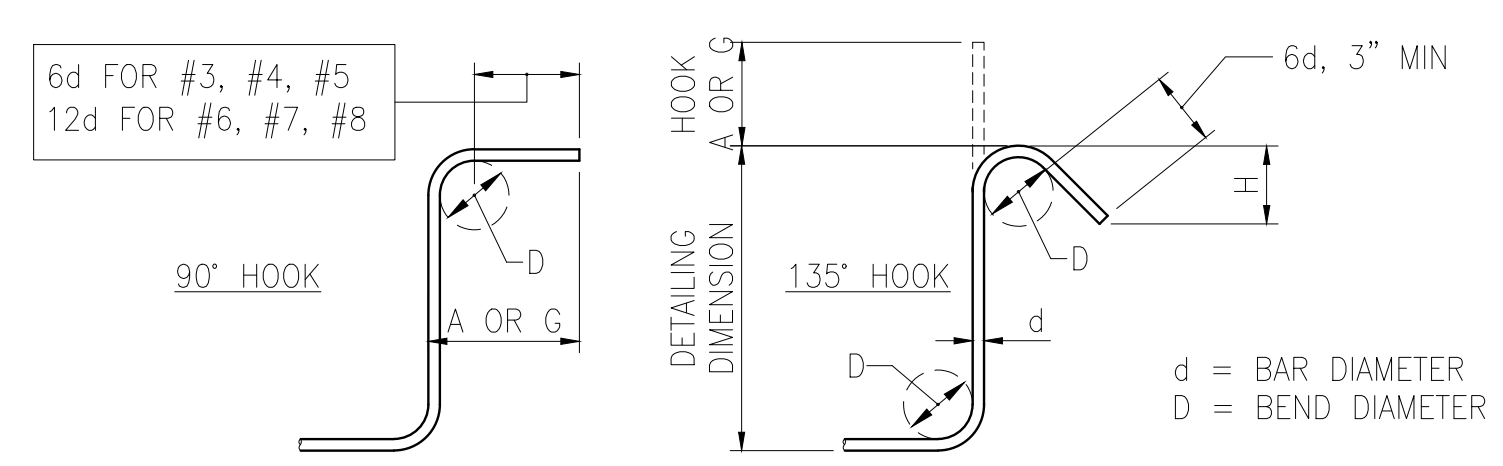
NOTE:  
LOCATE WALL CONSTRUCTION JOINTS AT 60'-0" MAX. SPACING. LOCATION OF JOINTS SHALL BE APPROVED BY THE ENGINEER.

**ISOMETRIC VIEW**

SCHEDULE OF ADDED JOINT REINFORCING		
WALL THICKNESS	12" OR LESS	18" OR LESS
ADDED REINFORCING	#4 @ 12" O.C. EACH FACE	#5 @ 12" O.C. EACH FACE

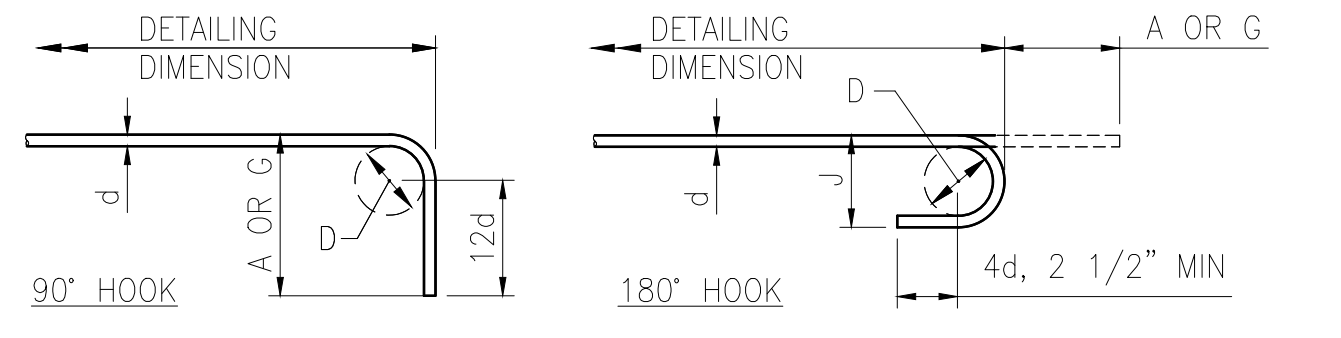
**TYPICAL HORIZONTAL CONSTRUCTION JOINT IN CONCRETE WALL**  
SCALE: N.T.S.

**TYPICAL VERTICAL CONSTRUCTION JOINT IN CONCRETE WALL**  
SCALE: N.T.S.



BAR SIZE	D	STIRRUP / TIE HOOK		APPROX H
		90° HOOKS	135° HOOKS	
		A OR G	A OR G	
#3	1 1/2"	4"	4 1/4"	3"
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 1/4"
#6	4 1/2"	1'-0"	8"	4 1/2"
#7	5 1/4"	1'-2"	9"	5 1/2"
#8	6"	1'-4"	10 1/2"	6"

**TYPICAL REINFORCEMENT BAR HOOKS AND BENDS**  
SCALE: N.T.S.



BAR SIZE	D	MAIN REBAR HOOK	
		90° HOOKS	180° HOOKS
		A OR G	A OR G
#3	2 1/4"	6"	3"
#4	3"	8"	4"
#5	3 3/4"	10"	5"
#6	4 1/2"	1'-0"	6"
#7	5 1/4"	1'-2"	7"
#8	6"	1'-4"	8"

BAR SIZE	f'c = 5,000 PSI				
	MIN DEVELOPMENT LENGTH			MIN LAP SPlice LENGTH	
	STRAIGHT	HOOKED		TOP	OTHER
#3	1'-5"	1'-1"	0'-7"	2'-2"	1'-5"
#4	1'-11"	1'-5"	0'-9"	2'-5"	1'-11"
#5	2'-4"	1'-10"	0'-11"	3'-0"	2'-4"
#6	2'-10"	2'-2"	1'-1"	3'-8"	2'-10"
#7	4'-1"	3'-2"	1'-3"	5'-3"	4'-1"
#8	4'-8"	3'-7"	1'-5"	6'-0"	4'-8"

- ALL REINFORCING BARS SHALL BE DEVELOPED OR LAP SPICED AS SHOWN, U.O.N.
- LAP SPlice LOCATIONS SHALL BE STAGGERED WHENEVER POSSIBLE.
- TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE LAP SPlice.

**DEVELOPMENT LENGTH & LAP SPlice SCHEDULE**  
SCALE: N.T.S.

BAR SIZE	f'c = 4,000 PSI				
	MIN DEVELOPMENT LENGTH			MIN LAP SPlice LENGTH	
	STRAIGHT	HOOKED		TOP	OTHER
#3	1'-7"	1'-3"	0'-8"	2'-0"	1'-7"
#4	2'-1"	1'-7"	0'-10"	2'-8"	2'-1"
#5	2'-7"	2'-0"	1'-0"	3'-5"	2'-7"
#6	3'-1"	2'-5"	1'-3"	4'-1"	3'-1"
#7	4'-6"	3'-6"	1'-5"	5'-11"	4'-8"
#8	5'-2"	4'-0"	1'-7"	6'-9"	5'-2"

- ALL REINFORCING BARS SHALL BE DEVELOPED OR LAP SPICED AS SHOWN, U.O.N.
- LAP SPlice LOCATIONS SHALL BE STAGGERED WHENEVER POSSIBLE.
- TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE LAP SPlice.

**DEVELOPMENT LENGTH & LAP SPlice SCHEDULE**  
SCALE: N.T.S.

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,497

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

REGISTERED PROFESSIONAL ENGINEER  
FRANCISCO PIRAZUANO  
No. 56277  
STATE OF CALIFORNIA  
2/2024

DESIGNED: DATE: 02/2020  
JE/JG

DRAWN: DATE: 03/11/2024  
JE/JG

CHECKED: DATE: 01/2024  
RL

PUBLIC WORKS APPROVALS  
FOR RAYMOND LUI 3/11/2024  
SECTION MANAGER  
FERNANDO CISNEROS 03/11/2024  
DEPUTY BUREAU MANAGER  
PATRICK RIVERA 03/11/2024  
BUREAU MANAGER

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 7/3/2024

DocuSigned by:  
Uday Prasad  
CHIEF HARBOR ENGINEER

SCALE: AS SHOWN

REV. NO. 0

**AMADOR STREET INFRASTRUCTURE IMPROVEMENTS**

**TYPICAL CONCRETE DETAILS**

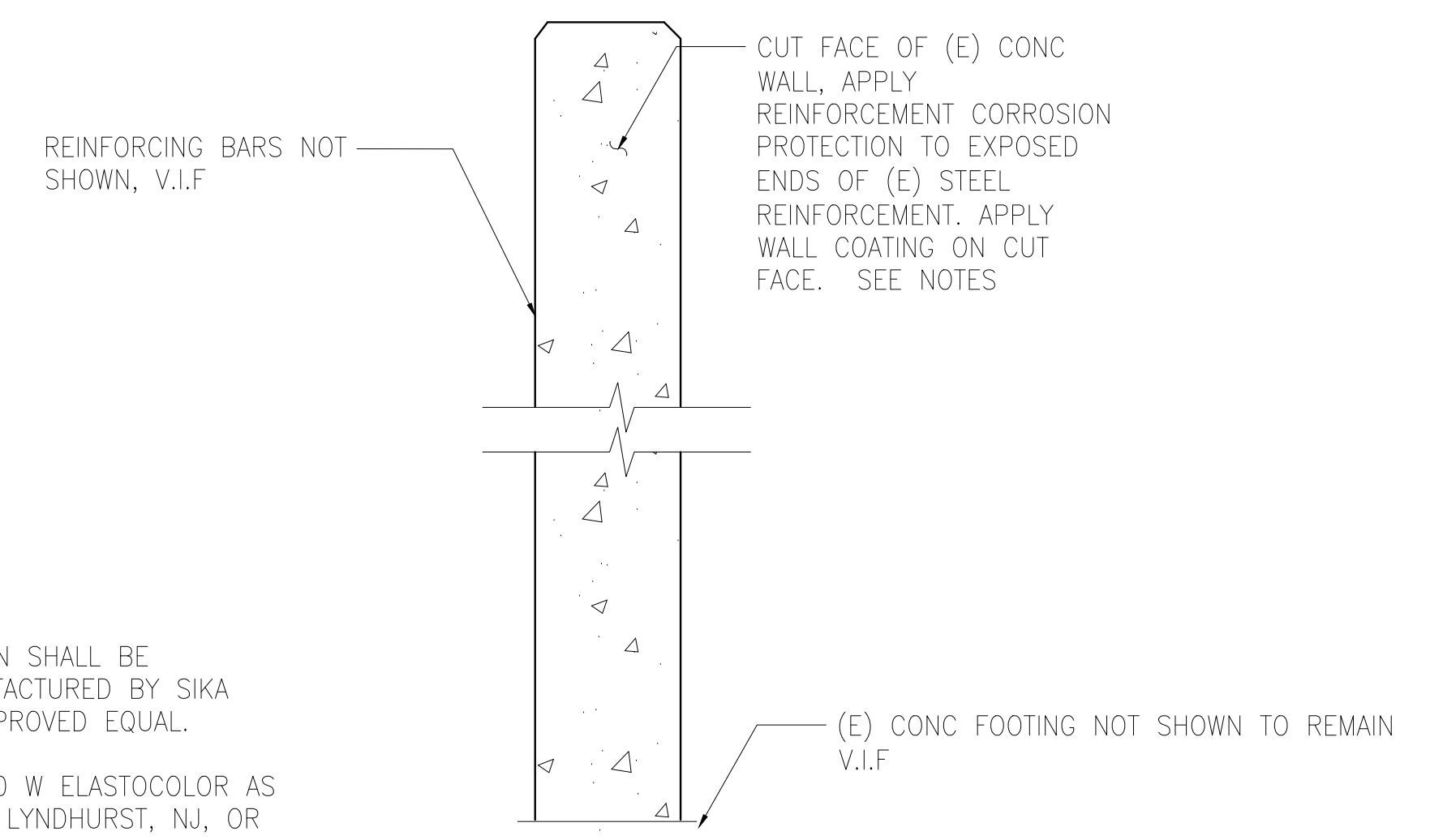
CONTRACT NO. 2852

PORT DRAWING NO. 19202-4043-S

SHEET NO. S-4

SHEET OF SHEETS 27 OF 72

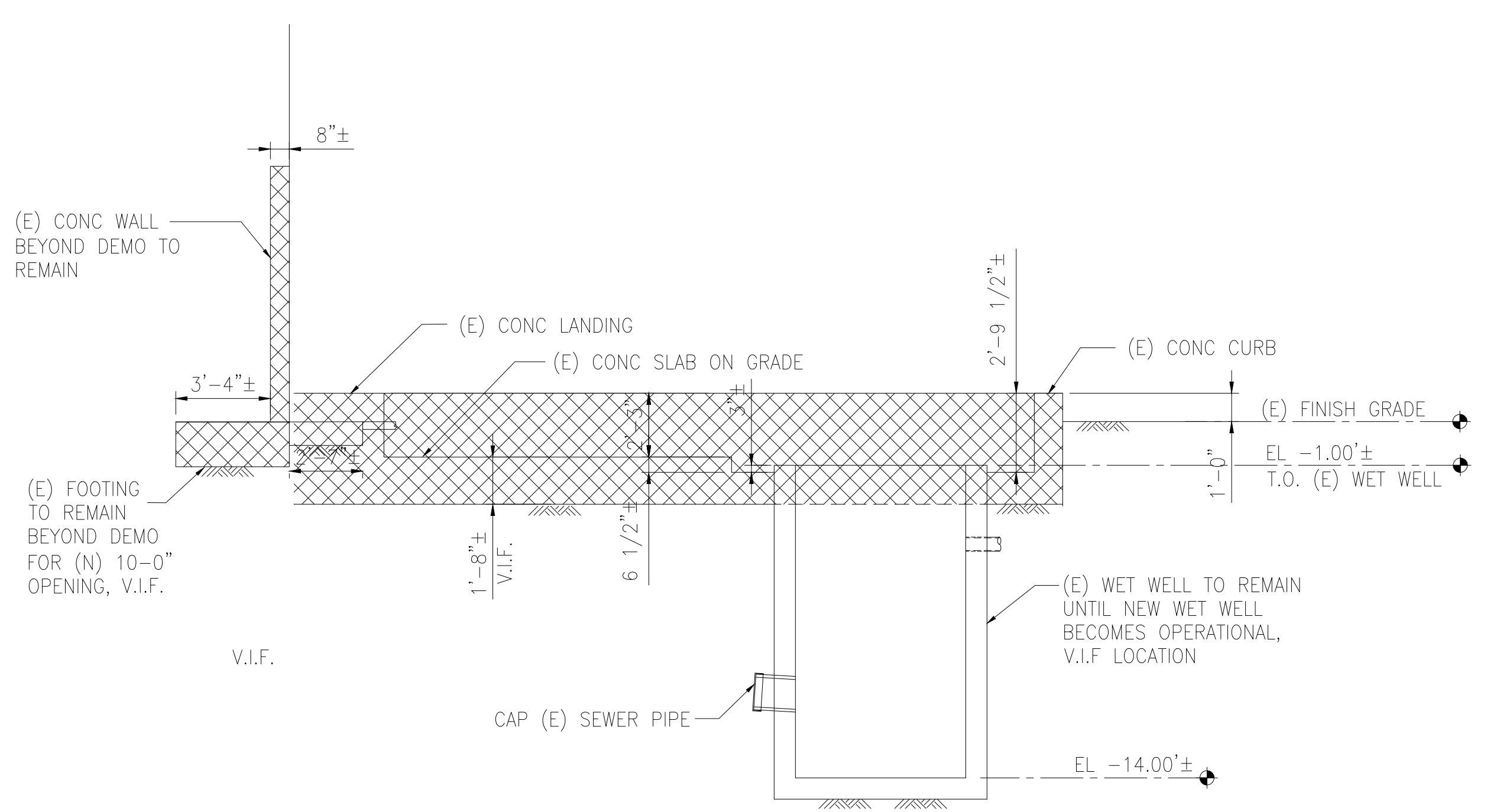




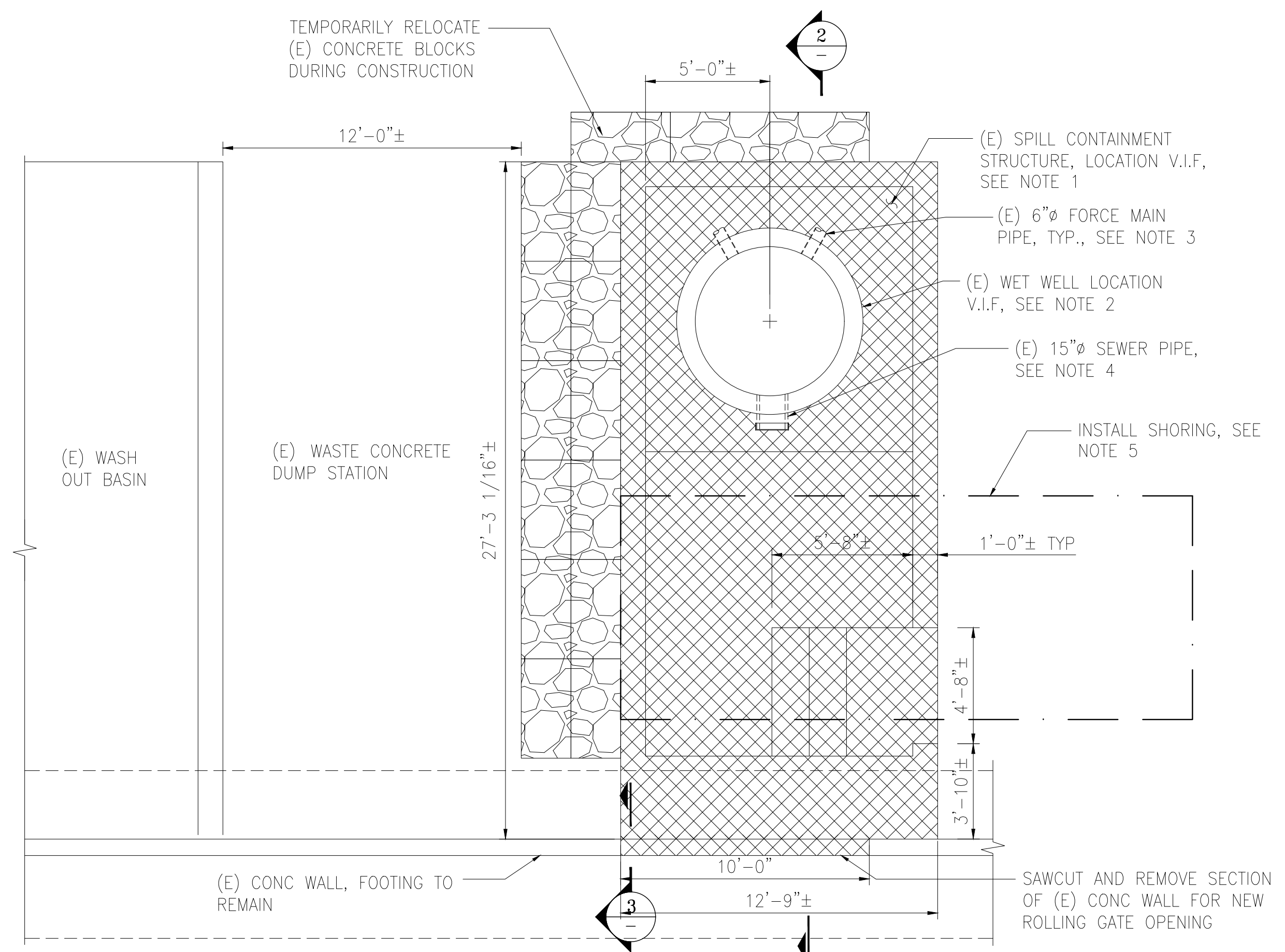
- NOTES:**
- REINFORCEMENT CORROSION PROTECTION SHALL BE SIKA ARMATEC-110 EPOCEM AS MANUFACTURED BY SIKA CORPORATION, LYNDHURST, NJ, OR APPROVED EQUAL.
  - WALL COATING SHALL BE SIKAGARD-550 W ELASTOCOLOR AS MANUFACTURED BY SIKA CORPORATION, LYNDHURST, NJ, OR APPROVED EQUAL.

- SHEET NOTES**
- FOR SITE PLAN AND HYDRAULIC RELATED WORK S.H.D.
  - FOR MECHANICAL RELATED WORK SCOPE S.M.D.

**SECTION 3**  
SCALE: NONE



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



- NOTES:**
- DEMO (E) SPILL CONTAINMENT STRUCTURE (HATCHED).
  - SAVE & KEEP OPERATIONAL (E) WET WELL UNTIL NEW WET WELL BECOMES OPERATIONAL.
  - SAVE (E) 6" FORCE MAIN PIPES.
  - CUT & CAP (E) 15" SEWER PIPE AFTER TEMPORARY SEWER PIPE IS INSTALLED PER MECH. DWG. DEMO PIPE TO THE SOUTH OF CAP.
  - INSTALL SHORING AS REQUIRED FOR NEW SUMP PIT AND EXCAVATION. (E) SUMP PUMP AND WET WELL SHALL NOT BE DAMAGED AND SHALL REMAIN OPERATIONAL DURING SHORING INSTALLATION.

**DEMOLITION PLAN - SPILL CONTAINMENT STRUCTURE**  
SCALE: 1/4" = 1'-0"

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,498

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**



DESIGNED: DATE:	FOR PUBLIC WORKS APPROVALS
JE/JG 02/2020	FOR RAYMOND LUI 3/11/2024
DRAWN: DATE:	SECTION MANAGER
JE/JG 02/2020	FERNANDO CISNEROS 03/11/2024
CHECKED: DATE:	DEPUTY BUREAU MANAGER
RL 01/2024	PATRICK RIVERA 03/11/2024
	BUREAU MANAGER

APPROVED BY	DATE:
SAN FRANCISCO PORT COMMISSION	7/3/2024
DocuSigned by:	
Uday Prasad	
CHIEF HARBOR ENGINEER	

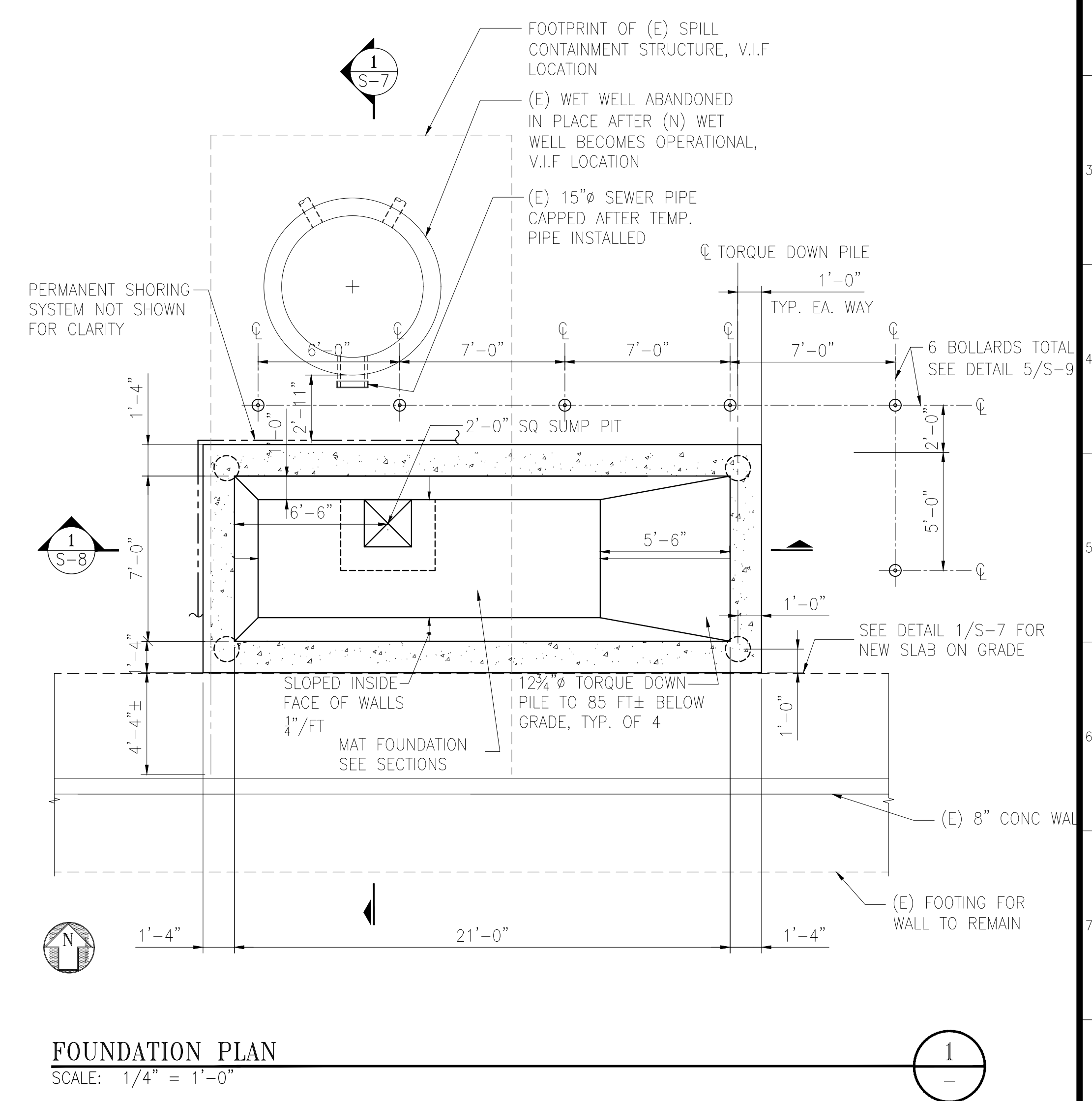
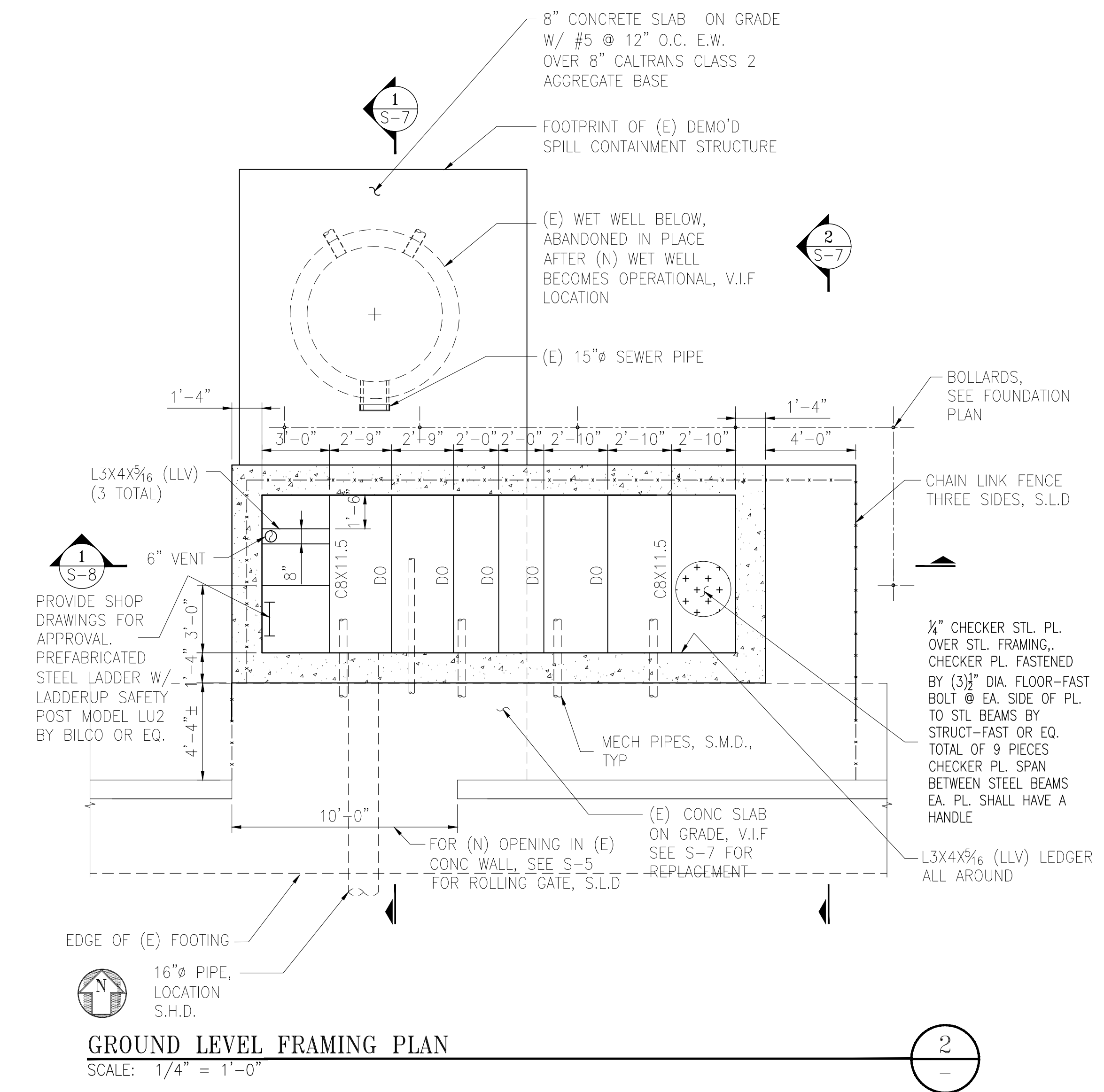
SCALE:	AS SHOWN
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**DEMOLITION PLAN AND SECTION**

CONTRACT NO.	2852
PORT DRAWING NO.	19203-4043-S
SHEET NO.	S-5
SHEET OF SHEETS	28 OF 72

- SHEET NOTES**
- FOR SITE PLAN AND HYDRAULIC RELATED SCOPE S.H.D.
  - FOR MECHANICAL RELATED WORK SCOPE



NO.	DATE	DESCRIPTION	BY	APP.
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REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

DESIGNED: DATE: 02/2020  
JE/JG  
DRAWN: DATE: 02/2020  
JE/JG  
CHECKED: DATE: 01/2024  
RL

PUBLIC WORKS APPROVALS  
FOR RAYMOND LUI 3/11/2024  
SECTION MANAGER  
FERNANDO CISNEROS 03/11/2024  
DEPUTY BUREAU MANAGER  
PATRICK RIVERA 03/11/2024  
BUREAU MANAGER

APPROVED BY  
SAN FRANCISCO PORT COMMISSION  
DATE: 7/3/2024  
Uday Prasad  
CHIEF HARBOR ENGINEER

SCALE: AS SHOWN  
REV. NO. 0

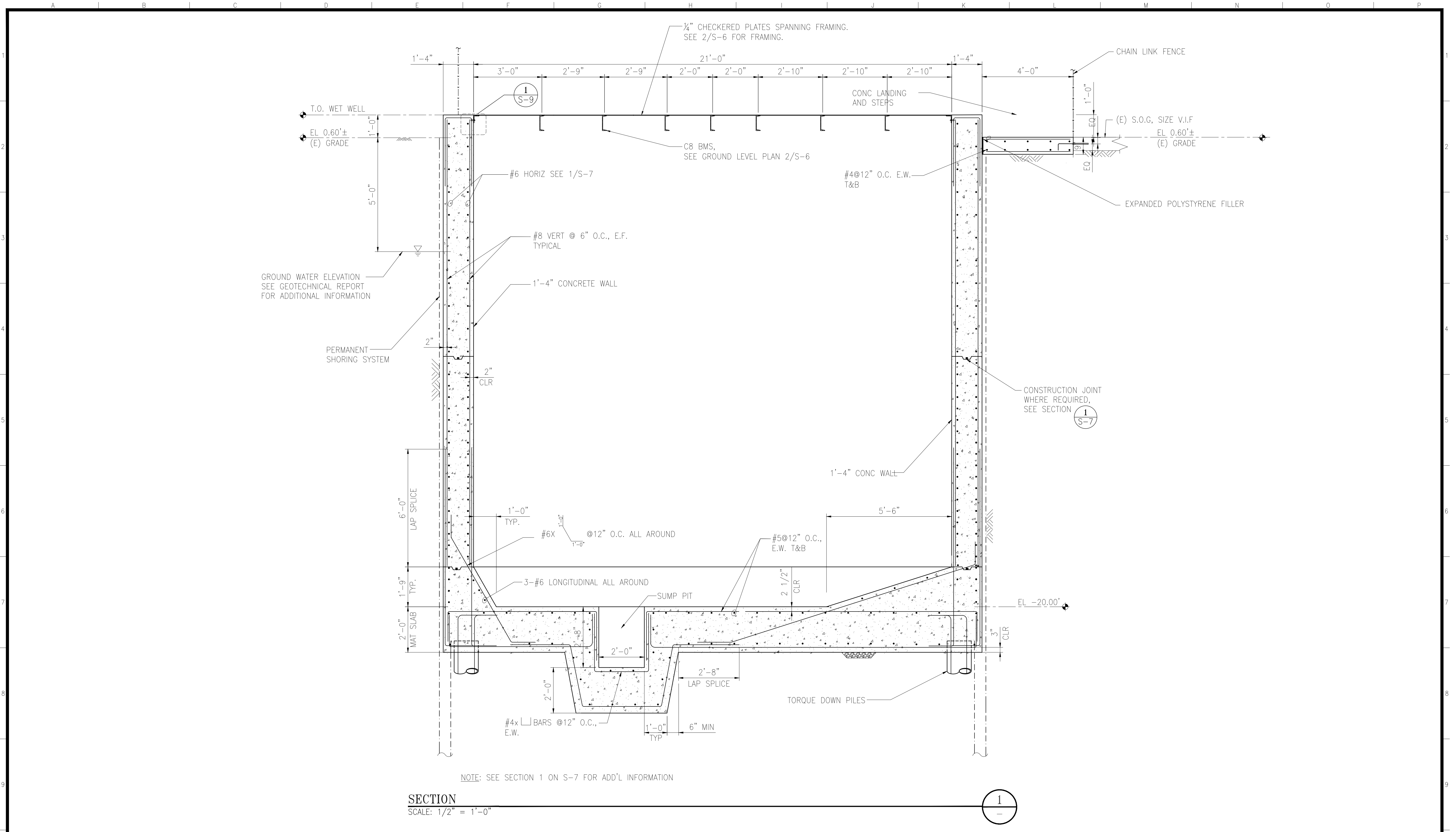
**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**PLANS**

CONTRACT NO. 2852  
PORT DRAWING NO. 19204-4043-S  
SHEET NO. S-6  
SHEET OF SHEETS 29 OF 72

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,499





NOTE: SEE SECTION 1 ON S-7 FOR ADD'L INFORMATION

**SECTION**

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

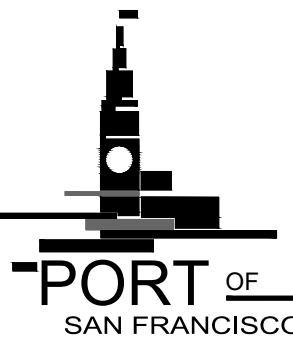

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PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,501

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				

REFERENCE INFORMATION & FILE NO. OF SURVEYS

**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
 DEPARTMENT OF ENGINEERING

DESIGNED: DATE: 02/2020  
 JE/JG  
 DRAWN: DATE: 02/2020  
 JE/JG  
 CHECKED: DATE: 01/2024  
 RL

PUBLIC WORKS APPROVALS  
 FOR RAYMOND LUI DATE: 3/11/2024  
 SECTION MANAGER  
 FERNANDO CISNEROS DATE: 03/11/2024  
 DEPUTY BUREAU MANAGER  
 PATRICK RIVERA DATE: 03/11/2024  
 BUREAU MANAGER

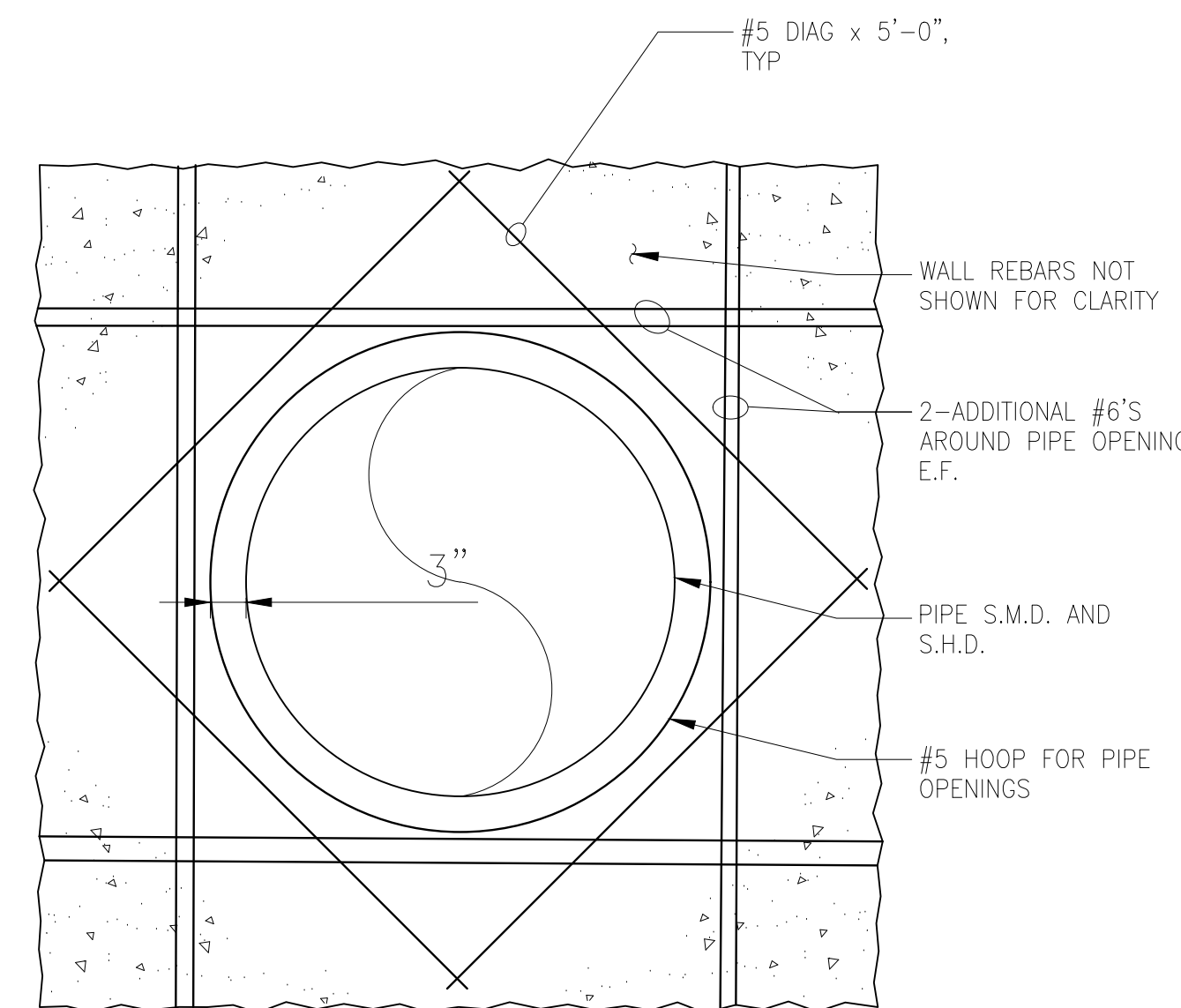
APPROVED BY  
 SAN FRANCISCO PORT COMMISSION  
 DATE: 7/3/2024  
 DocuSigned by:  
 Uday Prasad  
 CHIEF HARBOR ENGINEER

SCALE:  
 AS SHOWN  
 REV. NO.  
 0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

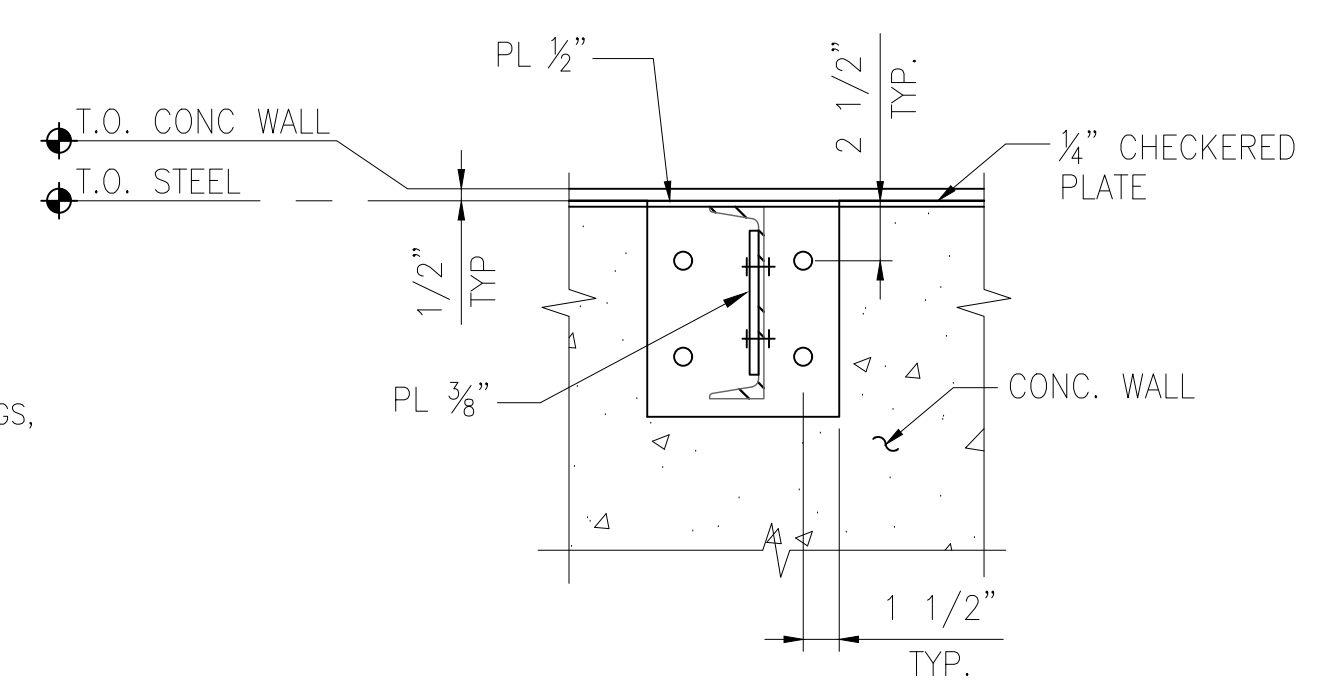
SECTIONS

CONTRACT NO.  
 2852  
 PORT DRAWING NO.  
 19206-4043-S  
 SHEET NO.  
 S-8  
 SHEET OF SHEETS  
 31 OF 72

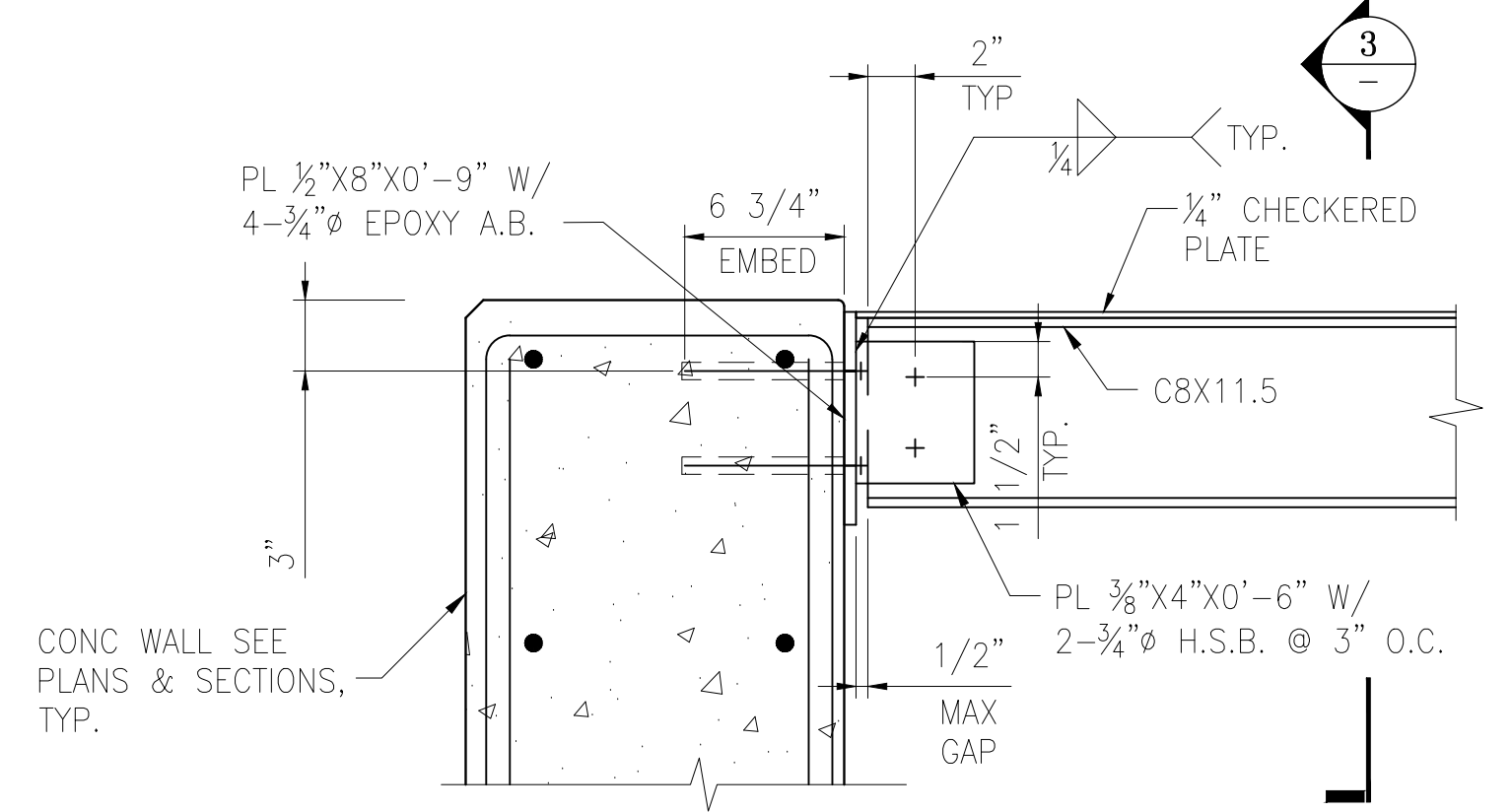


NOTE  
THE ABOVE DETAIL IS FOR 1'-4" DIAMETER PIPE.  
LOCATE 3"-4" DIAMETER PIPES BETWEEN  
REINFORCING BARS.

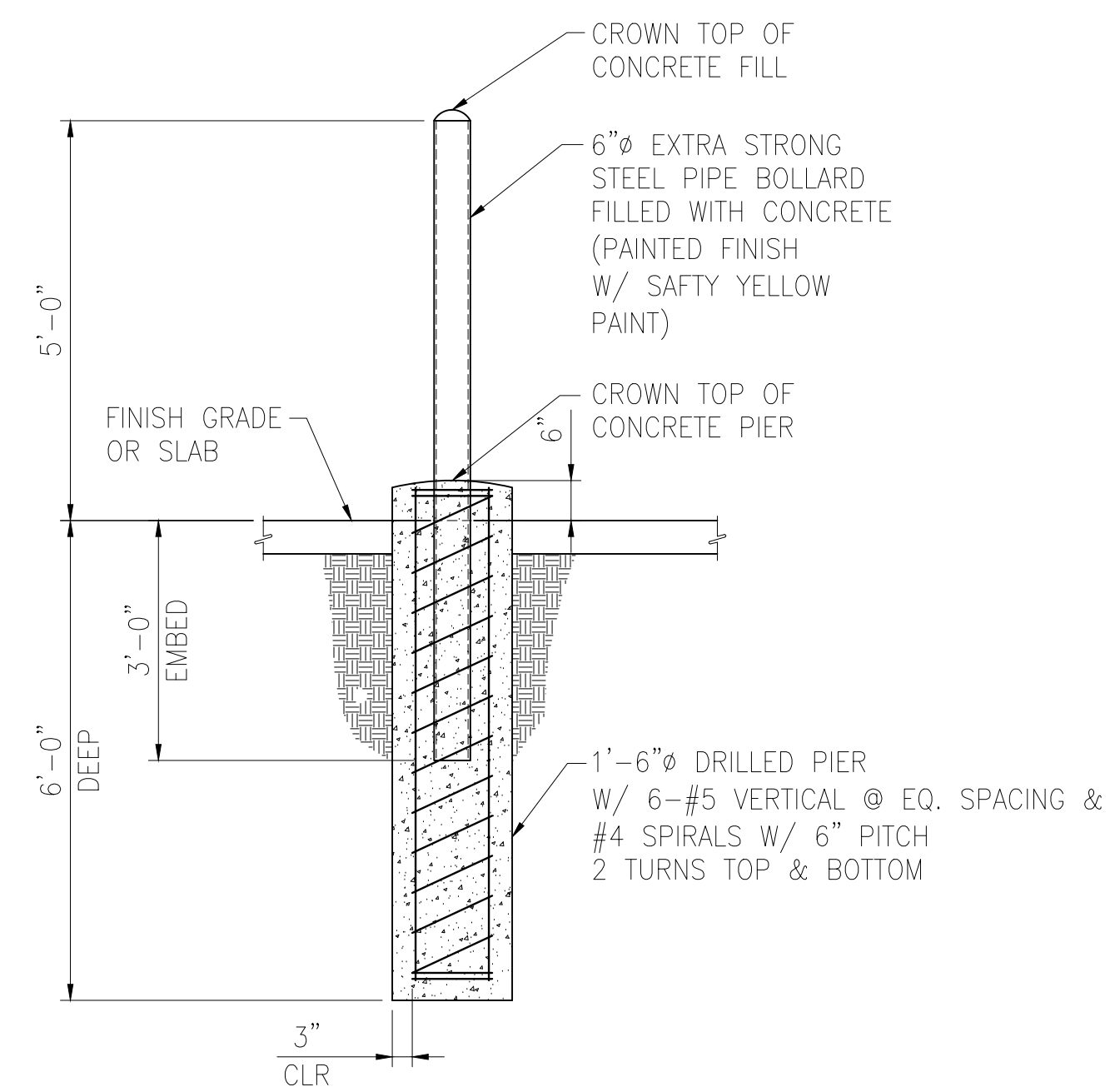
**TYPICAL PIPE PENETRATION INTO WALL**  
SCALE: N.T.S.



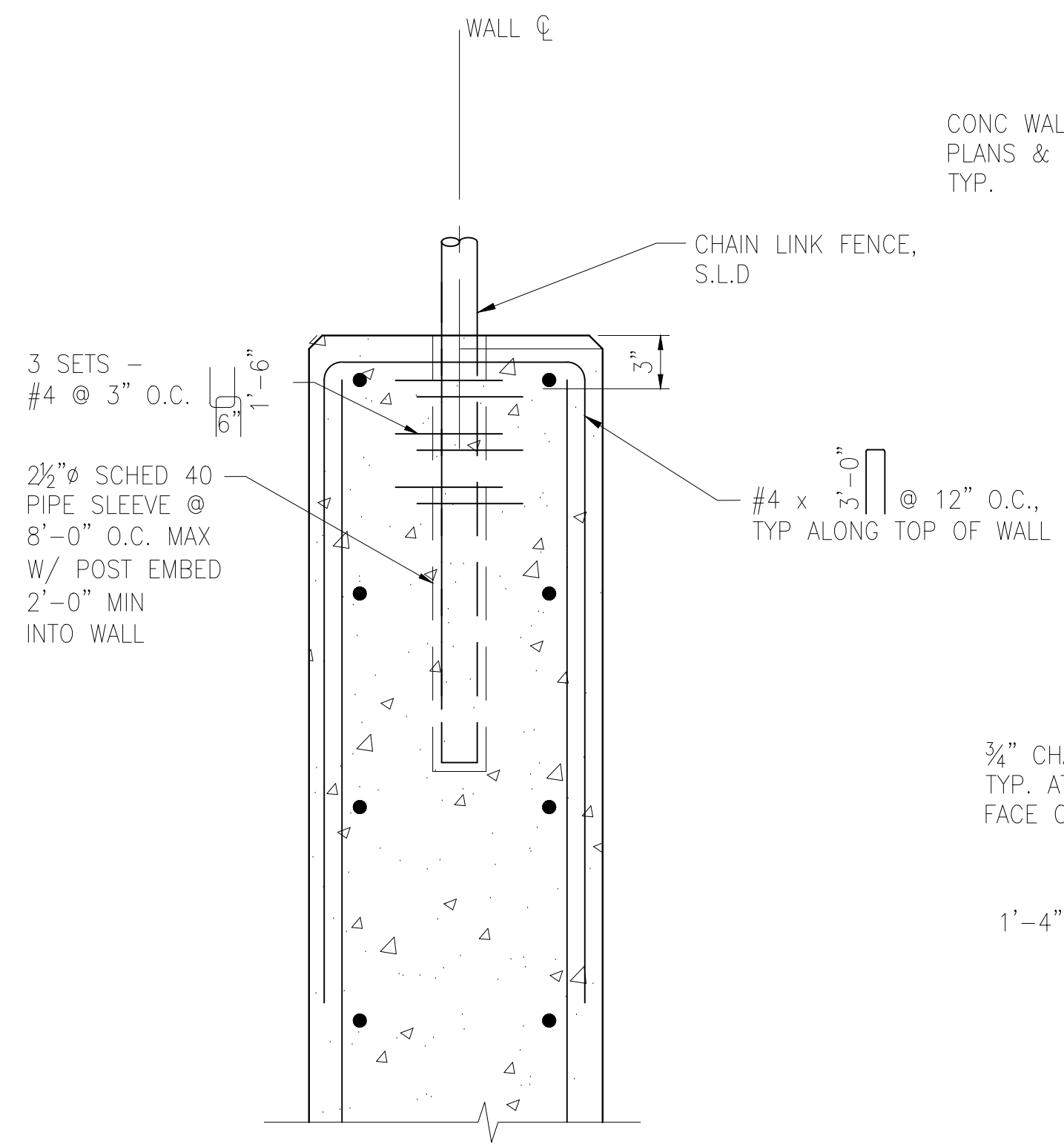
**DETAIL 3**  
SCALE: 1 1/2"=1'-0"



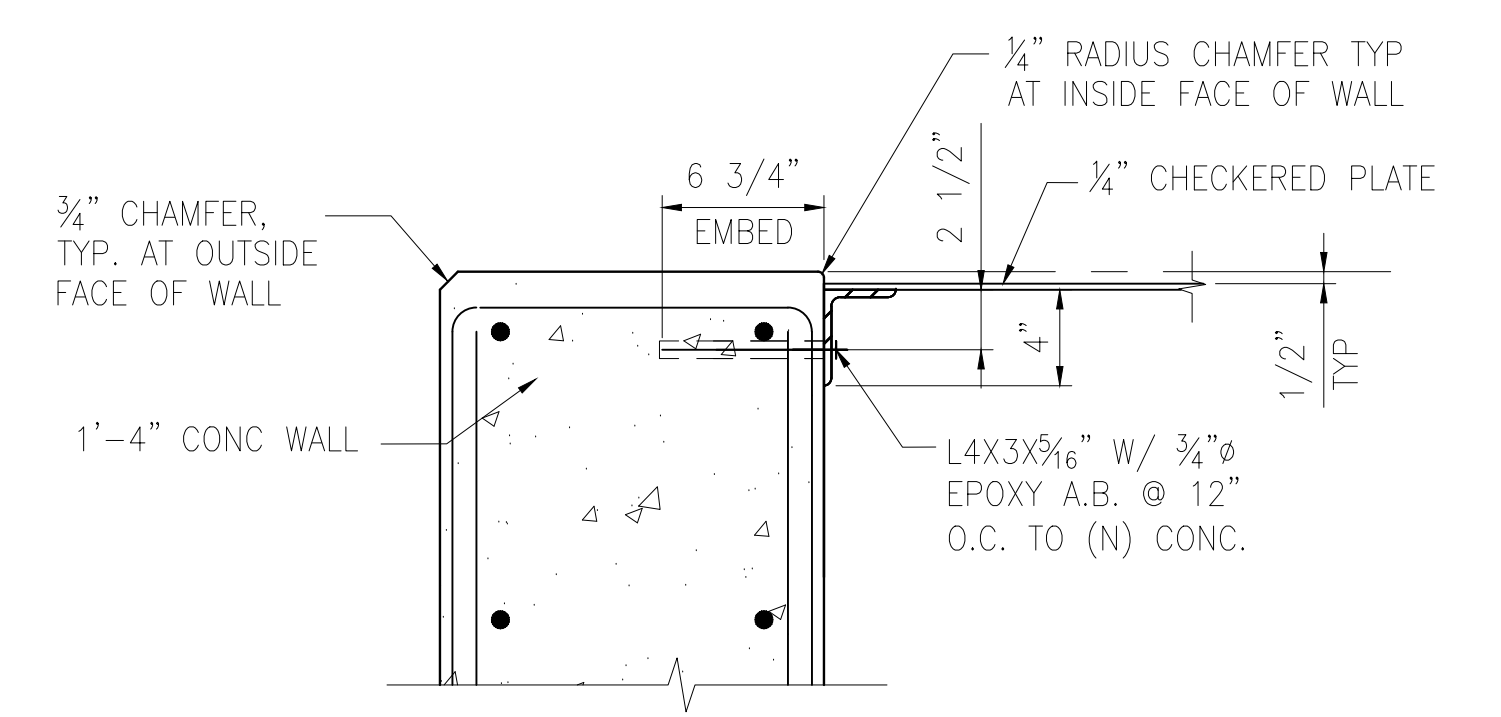
**DETAIL 2**  
SCALE: 1 1/2"=1'-0"



**BOLLARD DETAIL**  
SCALE: 1/2"=1'-0"



**DETAIL 4**  
SCALE: 1 1/2"=1'-0"



**DETAIL 1**  
SCALE: 1 1/2"=1'-0"

PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,502

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**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

2/2024

DESIGNED: DATE:	02/2020	PUBLIC WORKS APPROVALS FOR RAYMOND LUI	DATE: 3/11/2024
DRAWN: DATE:	02/2020	SECTION MANAGER	DATE: 03/11/2024
CHECKED: DATE:	01/2024	DEPUTY BUREAU MANAGER	DATE: 03/11/2024
RL		BUREAU MANAGER	DATE:

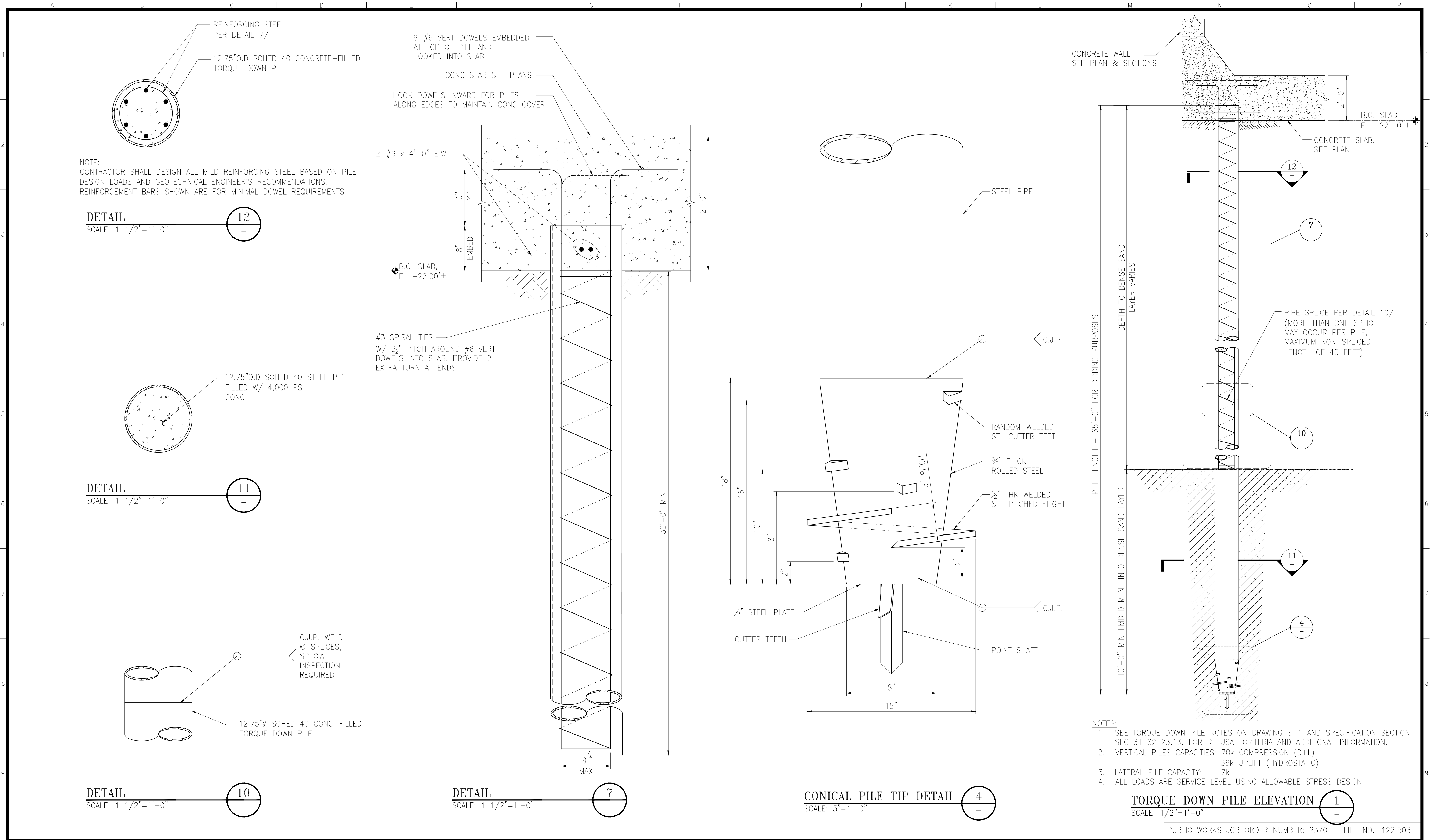
APPROVED BY	DATE:
SAN FRANCISCO PORT COMMISSION	7/3/2024
DocuSigned by: <i>Uday Prasad</i>	
CHIEF HARBOR ENGINEER	

SCALE:	AS SHOWN
REV. NO.	0

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**DETAILS**

CONTRACT NO.	2852
PORT DRAWING NO.	19207-4043-S
SHEET NO.	S-9
SHEET OF SHEETS	32 OF 72



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**SAN FRANCISCO PORT COMMISSION**  
**PORT OF SAN FRANCISCO**  
**DEPARTMENT OF ENGINEERING**

DESIGNED: DATE: PUBLIC WORKS APPROVALS FOR RAYMOND LUI 3/11/2024  
SECTION MANAGER DATE: 7/3/2024  
APPROVED BY SAN FRANCISCO PORT COMMISSION DATE: 7/3/2024  
DEPUTY BUREAU MANAGER DATE: 03/11/2024  
PATRICK RIVERA 03/11/2024  
BUREAU MANAGER DATE:

SCALE: AS SHOWN  
REV. NO. 0  
PUBLIC WORKS JOB ORDER NUMBER: 23701 FILE NO. 122,503

**AMADOR STREET**  
**INFRASTRUCTURE IMPROVEMENTS**

**TORQUE DOWN PILE ELEVATION AND DETAILS**

CONTRACT NO. 2852  
PORT DRAWING NO. 19208-4043-S  
SHEET NO. S-10  
SHEET OF SHEETS 33 OF 72