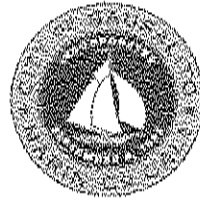


CITY OF SAUSALITO

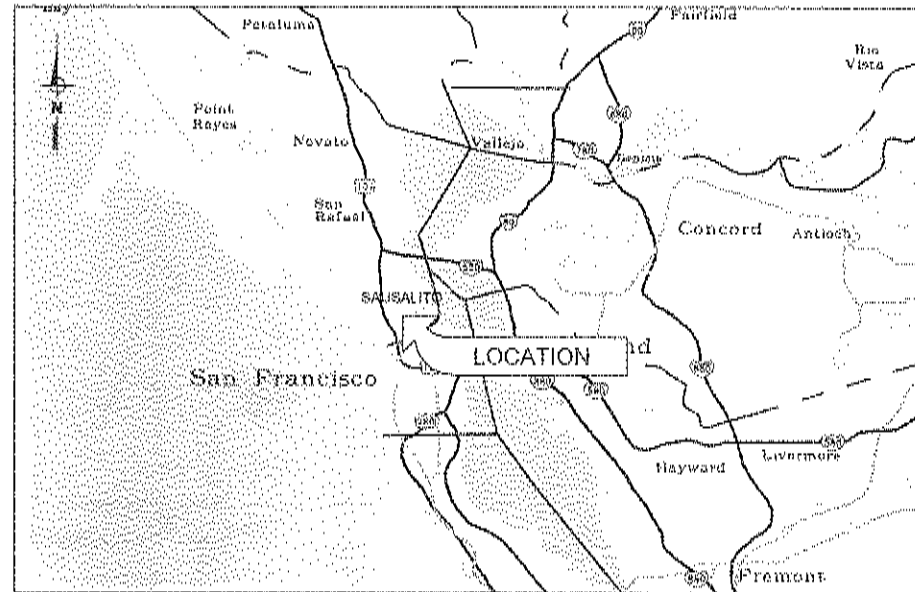


PRIORITY 1 SEWER REPLACEMENT PROJECT 1B SPINNAKER/HUMBOLDT STREET SEWER AND ANCHOR PUMP STATION REHABILITATION

MARIN COUNTY, CALIFORNIA

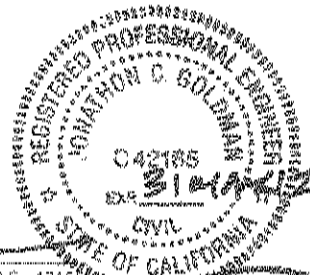
APRIL 2010

SHEET NO.	DWG NO.	DESCRIPTION
1	C01	TITLE SHEET & LOCATION MAP
2	C02	GENERAL NOTES AND LEGEND
3	C03	HUMBOLDT AVENUE STA 10+00 TO STA 15+00 PLAN & PROFILE
4	C04	SPINNAKER AVENUE STA 15+00 TO STA 19+80 PLAN & PROFILE
5	C05	SPINNAKER RESTAURANT STA 19+80 TO STA 20+86± PLAN & PROFILE
6	C06	DETAILS 1
7	C07	DETAILS 2
8	C08	ANCHOR PUMP STATION DEMOLITION PLAN
9	C09	ANCHOR PUMP STATION WET WELL/VALVE VAULT PLANS
10	C10	ANCHOR PUMP STATION WET WELL/VALVE VAULT SECTIONS AND DETAILS
11	C11	ANCHOR PUMP STATION WET WELL/VALVE VAULT SECTIONS AND DETAILS
12	C12	MANHOLE 190006 PACKAGE LIFT STATION STA 19+89
13	C13	MANHOLE DETAILS
14	E1	ELECTRICAL SYMBOLS & ABBREVIATIONS
15	E2	ANCHOR PUMP STATION ONE LINE DIAGRAM
16	E3	ANCHOR PUMP STATION PEDESTAL ELEVATION
17	E4	DISTRICT RTU LAYOUT & DISTRIBUTION DIAGRAM
18	E5	ANCHOR PUMP STATION ELEMENTARY DIAGRAM
19	E6	ANCHOR PUMP STATION ELECTRICAL SITE PLAN
20	E7	EXAMPLE INTERCONNECT DIAGRAM
21	E8	TYPICAL ELECTRICAL DETAILS NO. 1
22	E9	TYPICAL ELECTRICAL DETAILS NO. 2
23	I1	INSTRUMENTATION SYMBOLS & ABBREVIATIONS
24	I2	ANCHOR PUMP STATION P & ID

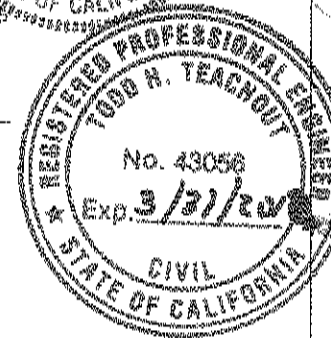


LOCATION MAP
NTS

APPROVED: *Jonathon Goldman*
 JONATHON GOLDMAN, DIRECTOR OF PUBLIC WORKS R.C.E. 42165



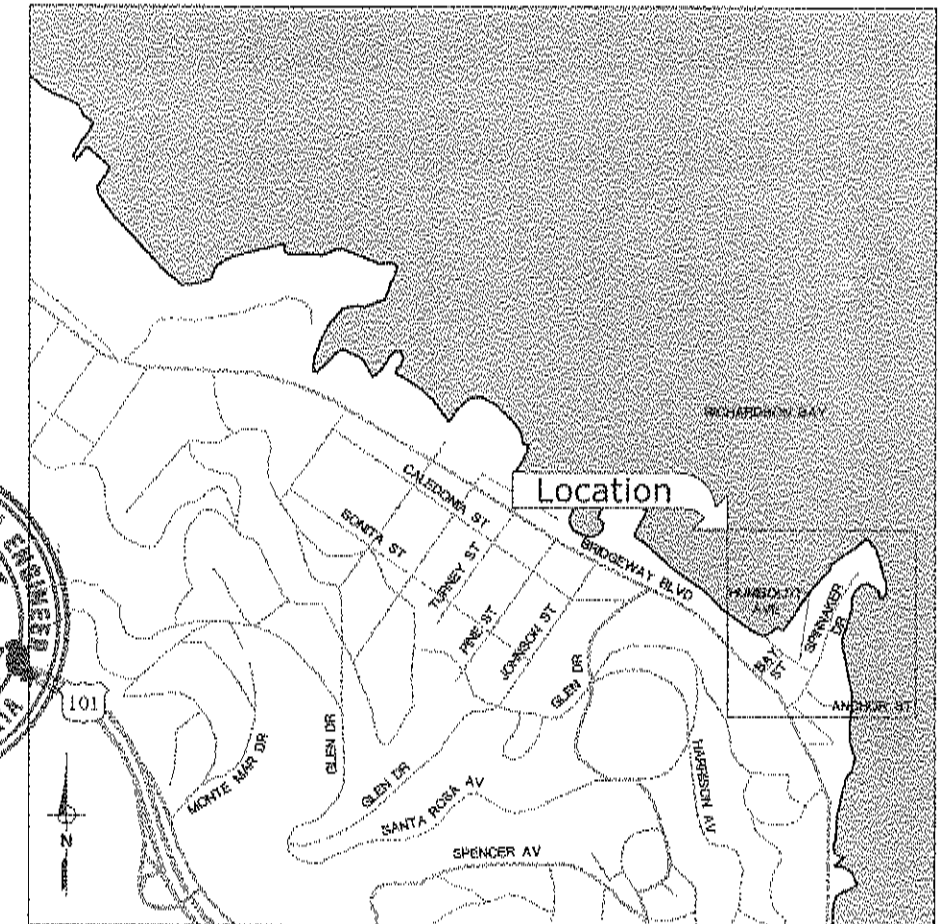
APPROVED: *Todd Teachout*
 TODD TEACHOUT, CITY ENGINEER, R.C.E. 43056



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 Consulting Engineers
 2020 Research Park Drive
 Suite 100
 Davis, California 95618
 (530) 756-5905
 FAX (530) 756-5991



13 April 2010



VICINITY MAP
NTS

N:\0116-16-454-City of Sausalito\02-09-02 Priority 1 Sewer Rehabilitation Design\0401 Design Project 1B_43452-0010-C01.dwg 04-13-10 01:57:43 PM an2bno

ABBREVIATIONS

AB	AGGREGATE BASE	(N)	NEW
AC	ASPHALT CONCRETE	NIC	NOT IN CONTRACT
ACP	ASBESTOS CEMENT PIPE	NO.	NUMBER
AVE.	AVENUE	NTS	NOT TO SCALE
BIC	BREAK IN CONNECTION	O.C	ON CENTER
BM	BENCHMARK	PG&E	PACIFIC GAS & ELECTRIC
CDF	CONTROLLED DENSITY FILL	PL	PROPERTY LINE
CIP	CAST IRON PIPE	PVC	POLY VINYL CHLORIDE PIPE
CLSM	CONTROLLED LOW STRENGTH MATERIAL	RC	RELATIVE COMPACTION
CO	CLEAN OUT, COMPANY	RCB	REINFORCED CONCRETE BOX
COMM	COMMUNICATIONS	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	ROW	RIGHT-OF-WAY
D	DRAIN	S	SLOPE, SEWER, SOUTH
DIA	DIAMETER	SD	STORM DRAIN
DIP	DUCTILE IRON PIPE	SHY	SHEET
DR	DRIVE, DIMENSION RATIO	SPEC	SPECIFICATION
DS	DOWNSTREAM	SS	SANITARY SEWER
DWG	DRAWINGS	SSMH	SANITARY SEWER MANHOLE
E, EX, EXIST	EXISTING	ST STL	STAINLESS STEEL
EL, ELEV	ELEVATION	ST	STREET
EP	EDGE OF PAVEMENT	STA	STATION
EW	FACHWAY	STD	STANDARD
FO	FIBER OPTIC	STL	STEEL
FH	FIRE HYDRANT	T	TANGENT, TELEPHONE
FL	FLOW LINE	TEL	TELEPHONE
FT	FOOT, FEET	TS	TRAFFIC SIGNAL
G	GAS	TSB	TRAFFIC SIGNAL BOX
GRND	GROUND	TYP	TYPICAL
HORZ	HORIZONTAL	UGE	UNDERGROUND ELECTRIC
INV	INVERT	UNO	UNLESS NOTED OTHERWISE
L	LENGTH	US	UPSTREAM
LF	LINEAR FOOT, LOAD FACTOR	V	VERTICAL
MAX	MAXIMUM	VCP	VITRIFIED CLAY PIPE
MIN	MINIMUM	VERT	VERTICAL
MH	MANHOLE	W	WEST, WATER, WIRE
MGN	MONUMENT	WM	WATER METER
		WV	WATER VALVE

LEGEND

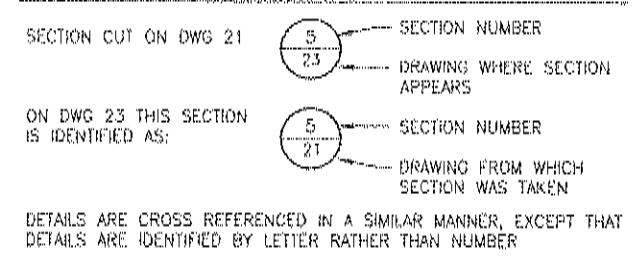
	EXISTING COMMUNICATION
	EXISTING PROPERTY LINE
	EXISTING STORM DRAIN
	EXISTING DRAIN TO BE ABANDONED
	EXISTING DRIVEWAY
	EXISTING OVERHEAD ELEC/CABLE
	EXISTING UNDERGROUND ELEC
	EXISTING GAS
	EXISTING FIRE HYDRANT
	EXISTING LIGHT POLE
	EXISTING PG&E BOX
	EXISTING SEWER WITH MANHOLE
	EXISTING SEWER TO BE ABANDONED
	EXISTING SIGN
	EXISTING TRAFFIC LIGHTS
	EXISTING TELEPHONE WITH BOX
	EXISTING WATER WITH VALVE, METER
	HORIZONTAL OR VERTICAL CONTROL
	PROPOSED LIMITS OF WORK
	PROPERTY LINE
	PROPOSED LIFT STATION
	PROPOSED SEWER WITH MANHOLE

GENERAL NOTES

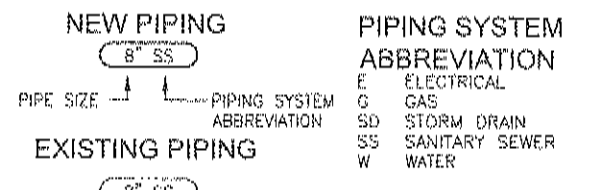
- THE LOCATIONS OF THE BUILDING SEWERS (LATERALS) ARE APPROXIMATE AND ARE BASED ON TV LOGS PROVIDED BY THE CITY. EXACT LOCATION OF LATERALS MAY VARY. ANY LATERALS ENCOUNTERED AND DAMAGED DURING CONSTRUCTION MUST BE REPAIRED AS PER DETAILS.
- CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT 800-227-2600 AT LEAST 48 HOURS BEFORE DIGGING.
- THE FOLLOWING UTILITIES MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK:

MUNICIPALITY/COMPANY	CONTACT	PHONE
SAUSALITO MARIN CITY SANITARY DISTRICT	KEVIN RAHMAN	(415) 332-0244
PG&E (SAN RAFAEL) GAS	MINDEE RAYBURN	(415) 257-3203
PG&E (SAN RAFAEL) ELECTRIC	MINDEE RAYBURN	(415) 257-3203
COMCAST CABLE	PAUL ALABONA	(707) 792-5168
SAUSALITO CITY FIRE DEPARTMENT	DEAN RAFFAINI	(415) 388-8182
MARIN MUNICIPAL WATER DISTRICT	CHI CHEUNG	(415) 945-1438
AT&T	ANITA GABRIELSON	(707) 575-2077
- CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND SUBMIT IT TO THE CITY FOR APPROVAL.
- ALL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE REPLACED BY PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA AT CONTRACTORS EXPENSE.
- CONTRACTOR SHALL OBTAIN ENCROACHMENT PERMIT FROM CITY OF SAUSALITO. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ENCROACHMENT PERMIT REQUIREMENTS. AWARD OF CONTRACT IS GRANT OF PERMIT. CITY WILL NOT CHARGE A FEE.
- ALL UTILITIES SHOWN ON THESE PLANS WERE SCALED FROM THE UTILITY MAPS RECEIVED FROM THE UTILITY COMPANIES. THEY ARE BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THESE PLANS WERE PRODUCED. THE ACTUAL LOCATIONS OF THE UTILITIES SHOWN ON THESE PLANS SHALL BE VERIFIED IN THE FIELD. SUCH VERIFICATION IS PART OF THE WORK.
- LOCATIONS OF EXISTING UTILITIES SHALL BE MARKED IN THE FIELD BY USA PRIOR TO CONSTRUCTION. POTHOLING OR OTHER EXCAVATIONS MAY BE NECESSARY TO ESTABLISH THE EXISTING ELEVATIONS OF THE VARIOUS UTILITIES. THESE EXCAVATIONS ARE PART OF THE WORK AND SHALL BE AT NO ADDITIONAL COST TO THE CITY.
- CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO RESIDENTS AT LEAST 48 HOURS BEFORE SEWER LATERALS ARE DISCONNECTED.
- PAVED AREA TO MATCH EXISTING. SEE SPECIFICATION 02500.
- CONTRACTOR MAY CONTACT TODD TEACHOUT AT THE CITY OF SAUSALITO AT (415) 289-4100 OR PATRICK FUSS WITH WEST YOST ASSOCIATES CONSULTING ENGINEERS AT (530) 756-5905 WITH QUESTIONS.
- EX SEWER FLOWS TO BE MAINTAINED DURING CONSTRUCTION, REFERENCE SPECIFICATIONS 02145.
- CONTRACTOR SHALL REMAIN WITHIN THE LIMITS OF WORK WHILE INGRESS/ EGRESS FROM THE SITE. ENTER AND EXIT WORK AREA ON HUMBOLDT AVG. ALL STAGING AND STORAGE SHALL BE CONTAINED WITHIN THE ESTABLISHED WORK AREA. NO EQUIPMENT OR MATERIALS SHALL BE STORED ON PUBLIC STREETS OR UNAPPROVED STORAGE AREAS.
- ALL WORK FROM STATION 18+90 TO SPINNAKER RESTAURANT, INCLUDING THE WORK TO BE DONE IN AND AROUND SPINNAKER RESTAURANT WILL BE PERFORMED DURING WORK HOURS INDICATED IN THE SPECIFICATIONS. ALL SEWAGE OUTAGES SHALL BE COORDINATED WITH THE RESTAURANT. AT NO TIME SHALL THE SEWER BE OUT DURING BUSINESS HOURS 11AM TO 11 PM. ALL WORK WITHIN SPINNAKER RESTAURANT MUST BE COORDINATED WITH THE RESTAURANT MANAGER, JEFF SCHAROSCH (415) 332-1572.

SECTION & DETAIL DESIGNATIONS



PIPING DESIGNATIONS



BENCHMARKS

HORIZONTAL DATUM:
CALIFORNIA COORDINATE SYSTEM 83 (CCS83) ZONE 3 EPOCH DATE-2007 BASED UPON NATIONAL GEODETIC SURVEY 941 4819 TIDAL 32.

VERTICAL DATUM:

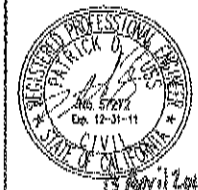
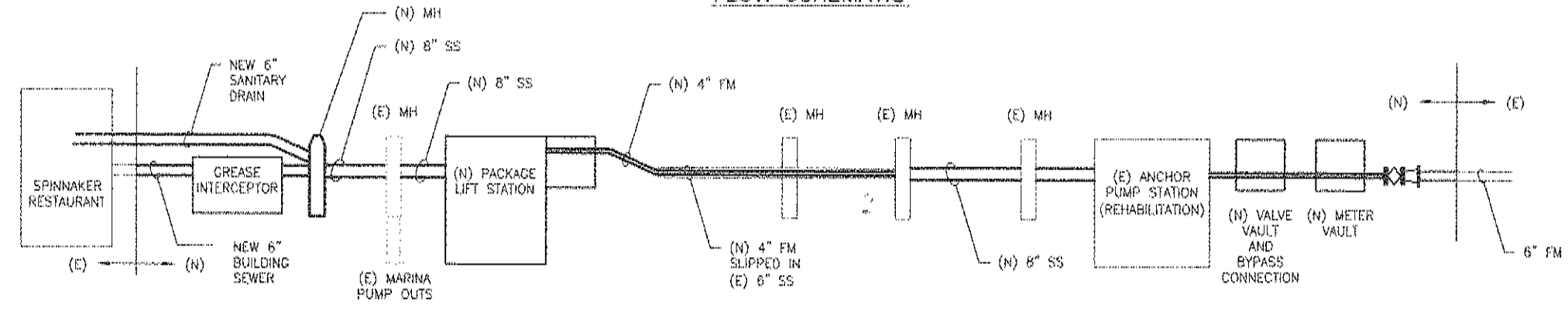
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

TIDAL BENCHMARK

DESIGNATION: 941 4819 TIDAL 32
PID HT1067
ELEVATION = 11.71' GEOID03 (CONUS)
37 51 47.84052(N) 122 29 35.97900(W)

SURVEY FOR DESIGN PERFORMED BY
MERIDIAN SURVEYING ENGINEERING, INC
(415) 456-5450

FLOW SCHEMATIC



SUBMITTED: _____ DATE: _____

APPROVED: _____ DATE: _____

THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE: AS SHOWN

DRAWN BY: ALN

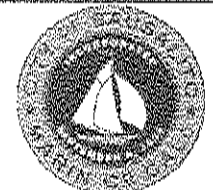
DESIGNED BY: HLP

PROJ. MGR.: PDF

No.	ZONE	REVISIONS	BY	DATE

WEST YOST ASSOCIATES
Consulting Engineers

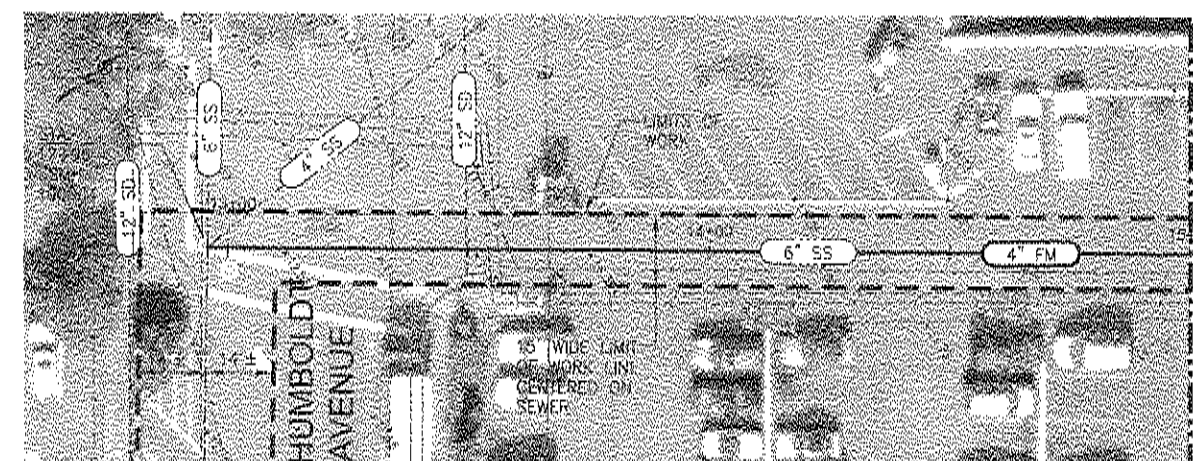
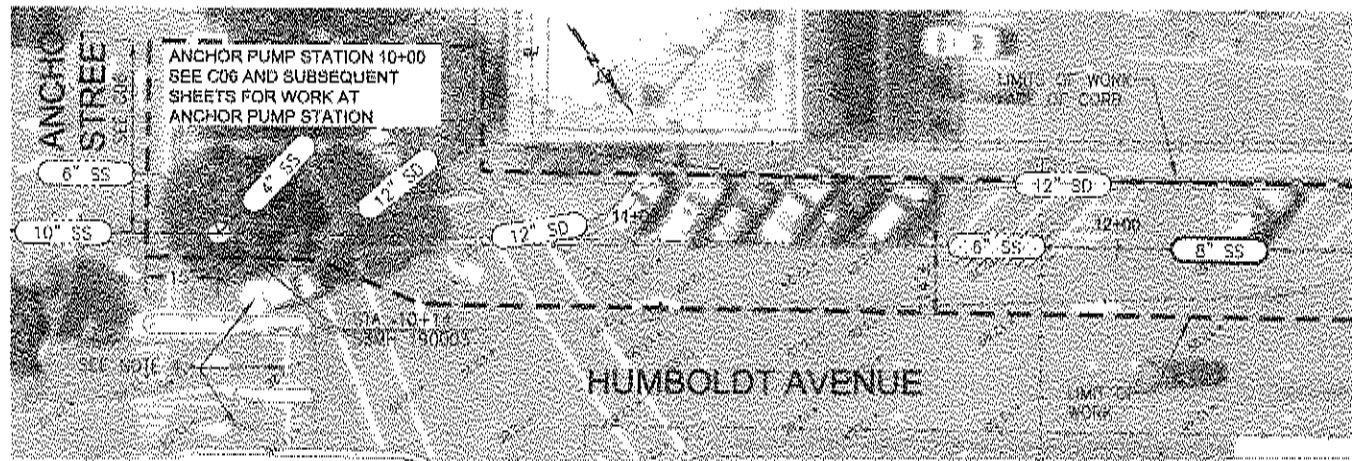
2020 Research Park Drive
Suite 100
Davis, California 95618
(530) 756-5905
FAX (530) 756-5901



CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B

GENERAL NOTES AND LEGEND

JOB NUMBER	454-02-09-02
DRAWING NUMBER	G02
SHEET NUMBER	2 OF 24
REVISION	



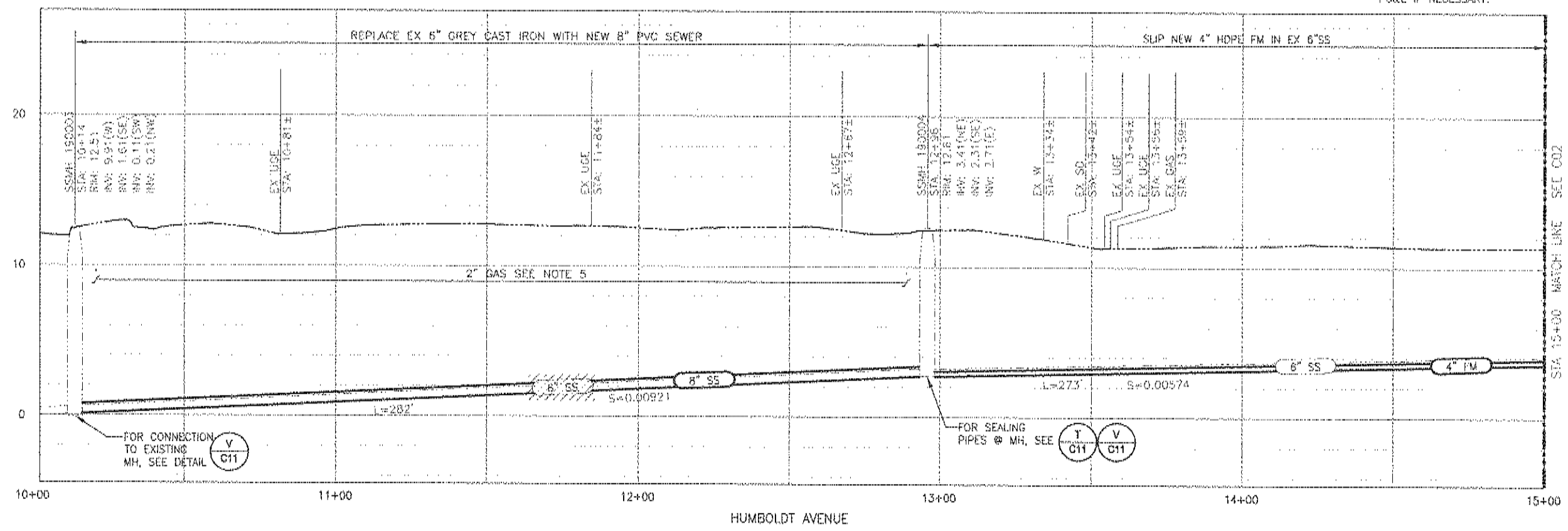
TRAFFIC CONTROL NOTES:

1. MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON HUMBOLDT AVENUE AT ALL TIMES.
2. MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON ANCHOR STREET BETWEEN 11AM AND 11PM.
3. PROVIDE "NO PARKING" SIGNS FOR HUMBOLDT AVENUE LISTING DATES AND TIMES THAT HUMBOLDT WILL BE AFFECTED 48 HOURS IN ADVANCE OF CONSTRUCTION.
4. MAINTAIN INGRESS AND EGRESS LANES TO PARKING LOT OPEN AT ALL TIMES.

HUMBOLDT AVENUE
PLAN
 SCALE: 1"=20'

HUMBOLDT AVENUE
PLAN
 SCALE: 1"=20'

- NOTES:**
1. LATERALS ARE SHOWN AS PER CCTV INSPECTION BY ROTO ROOTER. LOCATION IS APPROXIMATE. FIELD VERIFY ALL LATERALS
 2. AERIAL PHOTO COURTESY OF THE COUNTY OF MARIN, 2006.
 3. SEWER SHALL REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL CONTROL FLOW AND/OR BYPASS AS NECESSARY. SEE NOTE 12 ON 002.
 4. PROTECT EXISTING UTILITIES IN PLACE UNLESS NOTED OTHERWISE. EXISTING UTILITIES NOT SHOWN IN PROFILE SEE NOTE 7 ON 002.
 5. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF 2" GAS LINE. SUPPORT GAS IN PLACE DURING CONSTRUCTION. COORDINATED WITH PG&E IF NECESSARY.



HUMBOLDT AVENUE
PROFILE
 SCALE: V: 1"=4'
 H: 1"=20'

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 DATE: _____
 APPROVED: _____
 DATE: _____

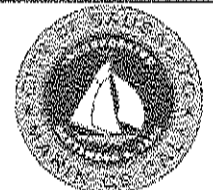
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 AT FULL SCALE
 IF NOT SCALE ACCORDINGLY

SCALE: AS SHOWN
 DRAWN BY: ALN
 DESIGNED BY: TLL
 PROJ. MGR.: PDF

No.	ZONE	REVISIONS	BY	DATE

WEST YOST ASSOCIATES
 Consulting Engineers

2020 Research Park Drive
 Suite 100
 Davis, California 95618
 (530) 756-5905
 FAX (530) 756-5901

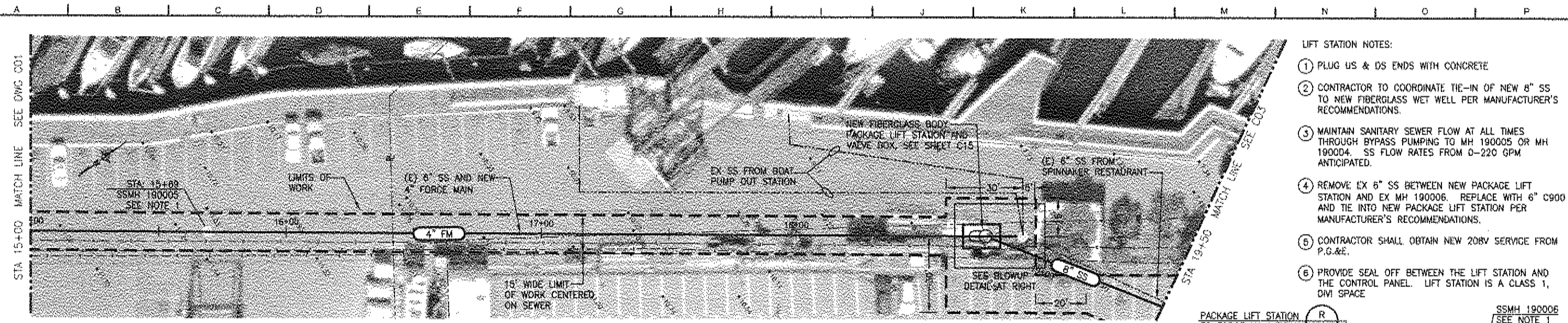


CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B

HUMBOLDT AVENUE
 STA 10+00 TO 15+00
 PLAN & PROFILE

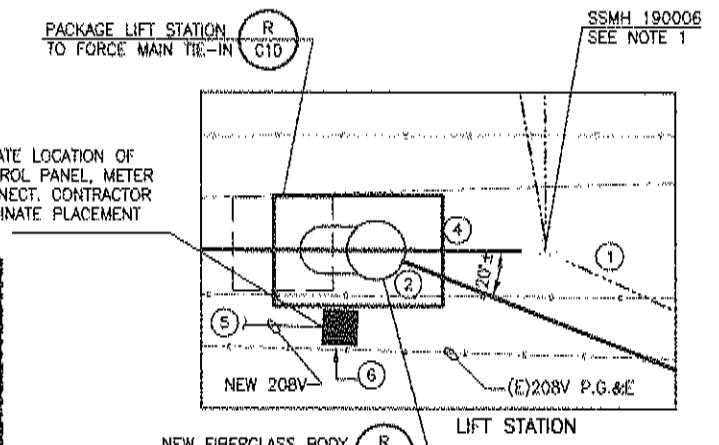
JOB NUMBER 454-02-09-02
DRAWING NUMBER C01
SHEET NUMBER 3 OF 24
REVISION

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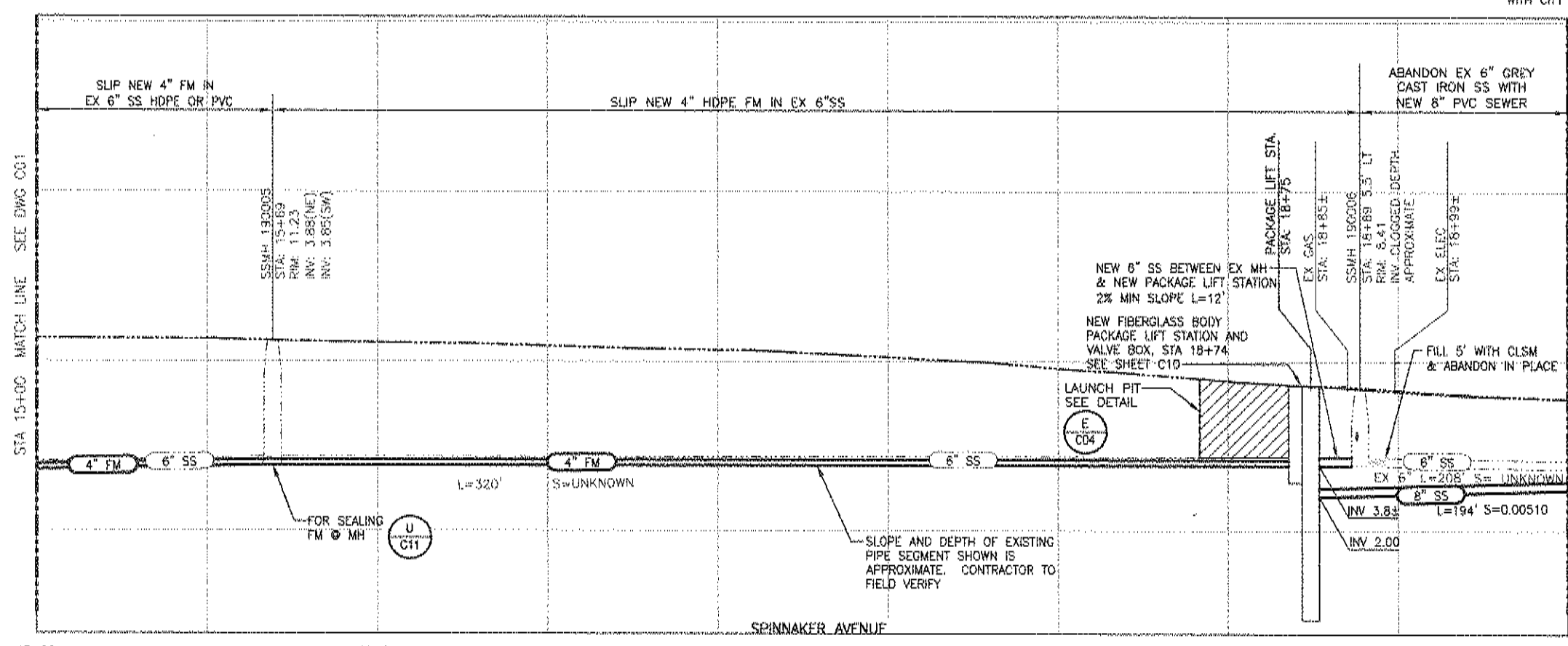
SPINNAKER AVENUE
PLAN
 SCALE: 1"=20'

- LIFT STATION NOTES:
- 1 PLUG US & DS ENDS WITH CONCRETE
 - 2 CONTRACTOR TO COORDINATE TIE-IN OF NEW 8" SS TO NEW FIBERGLASS WET WELL PER MANUFACTURER'S RECOMMENDATIONS.
 - 3 MAINTAIN SANITARY SEWER FLOW AT ALL TIMES THROUGH BYPASS PUMPING TO MH 190005 OR MH 190004. SS FLOW RATES FROM 0-220 GPM ANTICIPATED.
 - 4 REMOVE EX 6" SS BETWEEN NEW PACKAGE LIFT STATION AND EX MH 190006. REPLACE WITH 6" C900 AND TIE INTO NEW PACKAGE LIFT STATION PER MANUFACTURER'S RECOMMENDATIONS.
 - 5 CONTRACTOR SHALL OBTAIN NEW 208V SERVICE FROM P.G.&E.
 - 6 PROVIDE SEAL OFF BETWEEN THE LIFT STATION AND THE CONTROL PANEL. LIFT STATION IS A CLASS 1, DMV SPACE



NEW FIBERGLASS BODY PACKAGE LIFT STATION & VALVE BOX SEE
PLAN
 SCALE: 1/8"=1'

- NOTES:
1. PRESSURE WASH SSMH 190006 PRIOR TO STARTING CONSTRUCTION.
 2. LOCATION OF SS SHOWN FROM BOAT PUMP OUT IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY. VERTICAL DEPTH APPROX. 22" FROM RIM.
 3. AERIAL PHOTO COURTESY OF THE COUNTY OF MARIN, 2006.
 4. SEWER SHALL REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL CONTROL FLOW AND/OR BYPASS AS NECESSARY.
 5. PROTECT EXISTING UTILITIES IN PLACE UNLESS NOTED OTHERWISE.
 6. VIBRATION AT LIMITS OF WORK SHALL NOT EXCEED 1 INCH PER SEC. WORK PLAN AND MONITORING SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.

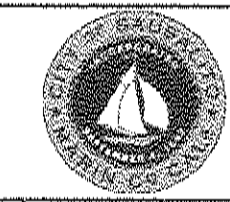


SPINNAKER AVENUE
PROFILE
 SCALE: V: 1"=4'
 H: 1"=20'



SUBMITTED: _____	DATE: _____	THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY SCALE: AS SHOWN DRAWN BY: ALN DESIGNED BY: KSB/HLP PROJ. MGR: PDE	No.	ZONE	REVISIONS	BY	DATE
APPROVED: _____	DATE: _____						

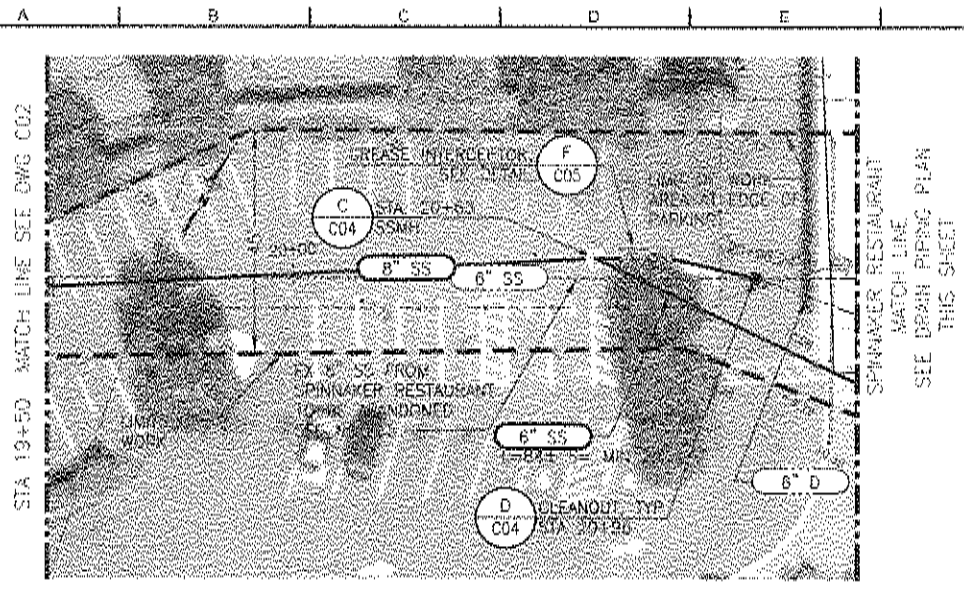
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 Consulting Engineers
 2020 Resopch Park Drive
 Suite 100
 Davis, California 95618
 (530) 756-5905
 FAX (530) 756-5961



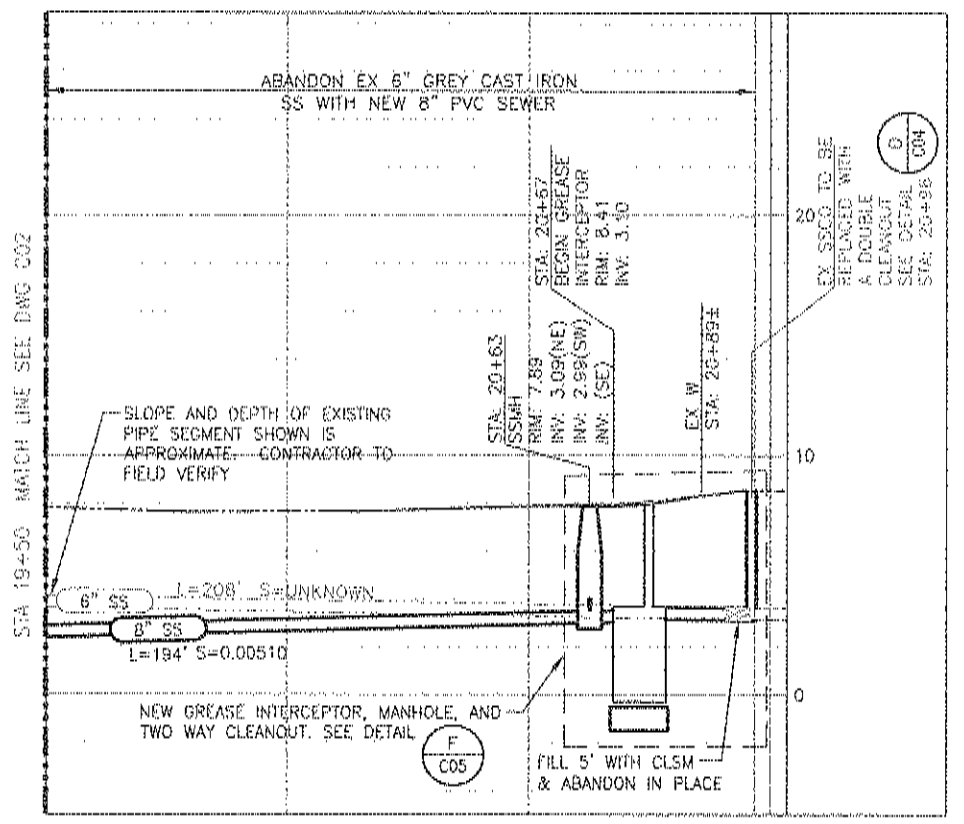
CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
 SPINNAKER AVENUE
 STA 15+00 TO 19+50
 PLAN & PROFILE

JOB NUMBER 454-02-09-02
DRAWING NUMBER C02
SHEET NUMBER 4 OF 24
REVISION

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SPINNAKER RESTAURANT
PLAN
 SCALE: 1"=20'



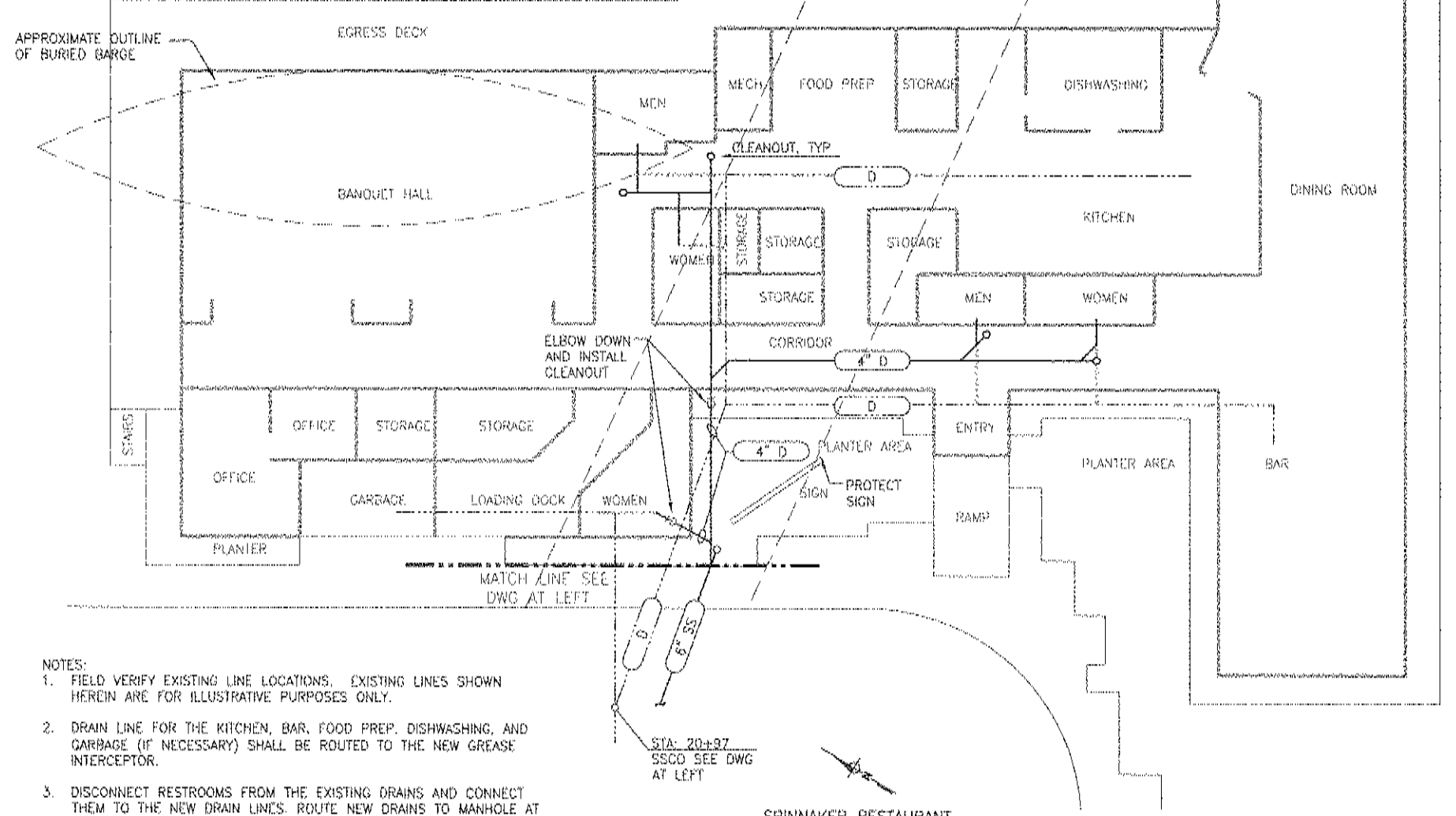
SPINNAKER RESTAURANT
PROFILE

SCALE: V: 1"=4'
 H: 1"=20'

NOTES:
 1. STATION 20+67 =
 N 2141262
 E 5990536

NOTES:

1. LATERALS LOCATIONS ARE APPROXIMATE. FIELD VERIFY ALL LATERALS.
2. AERIAL PHOTO COURTESY OF THE COUNTY OF MARIN, 2006.
3. SEWER SHALL REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL CONTROL FLOW AND/OR BYPASS AS NECESSARY.
4. PROTECT EXISTING UTILITIES IN PLACE UNLESS NOTED OTHERWISE.
5. PLUG US & DS END OF EXISTING 6" SANITARY SEWER WITH CONCRETE.
6. VIBRATION AT LIMITS OF WORK SHALL NOT EXCEED 1 INCH PER SEC. WORK PLAN AND MONITORING SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.



SPINNAKER RESTAURANT
DRAIN PIPING PLAN SCHEMATIC
 SCALE: NOT TO SCALE

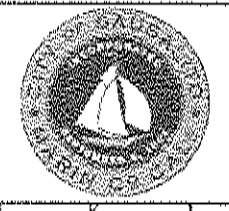
NOTES:

1. FIELD VERIFY EXISTING LINE LOCATIONS. EXISTING LINES SHOWN HEREIN ARE FOR ILLUSTRATIVE PURPOSES ONLY.
2. DRAIN LINE FOR THE KITCHEN, BAR, FOOD PREP, DISHWASHING, AND GARRAGE (IF NECESSARY) SHALL BE ROUTED TO THE NEW GREASE INTERCEPTOR.
3. DISCONNECT RESTROOMS FROM THE EXISTING DRAINS AND CONNECT THEM TO THE NEW DRAIN LINES. ROUTE NEW DRAINS TO MANHOLE AT STATION 20+63 AROUND NEW GREASE INTERCEPTOR.
4. NEW PIPING SHALL BE PVC PIPE. MINIMUM SLOPE FOR NEW DRAINS SHALL BE 2%.
5. NEW PIPING SHALL BE ROUTED BELOW ANY EXISTING PIPING WHERE THERE ARE CONFLICTS.
6. ONLY DRAIN PIPING SHOWN ON THIS PLAN.
7. NEW DRAIN LINES ARE SHOWN SCHEMATICALLY. SUBMIT A PLAN SHOWING PROPOSED LOCATIONS OF NEW DRAINS PRIOR TO WORK ON THE RESTAURANT.



SUBMITTED: _____	THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY	NO. _____	ZONE _____	REVISIONS _____	BY _____	DATE _____
DATE: _____	SCALE: AS SHOWN					
APPROVED: _____	DRAWN BY: ALN					
DATE: _____	DESIGNED BY: HLP					
	PROJ. MGR.: RDE					

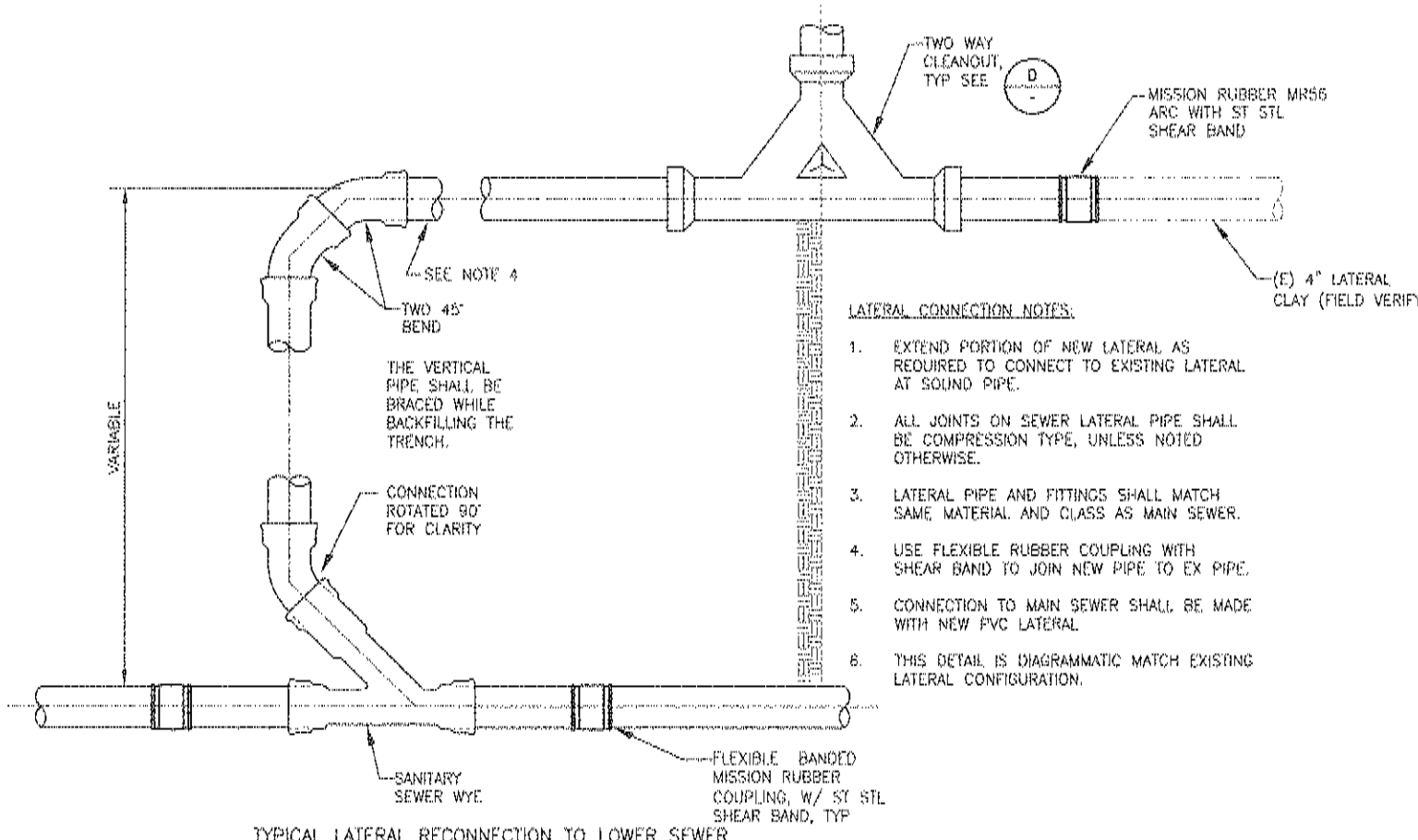
WEST YOST ASSOCIATES
 Consulting Engineers
 2020 Research Park Drive Suite 100
 Davis, California 95618
 (530) 756-6005
 FAX (530) 756-5891



CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
 SPINNAKER RESTAURANT
 STA 19+50 TO 20+96±
 PLAN & PROFILE

JOB NUMBER 454-02-09-02
DRAWING NUMBER C03
SHEET NUMBER 5 of 24
REVISION

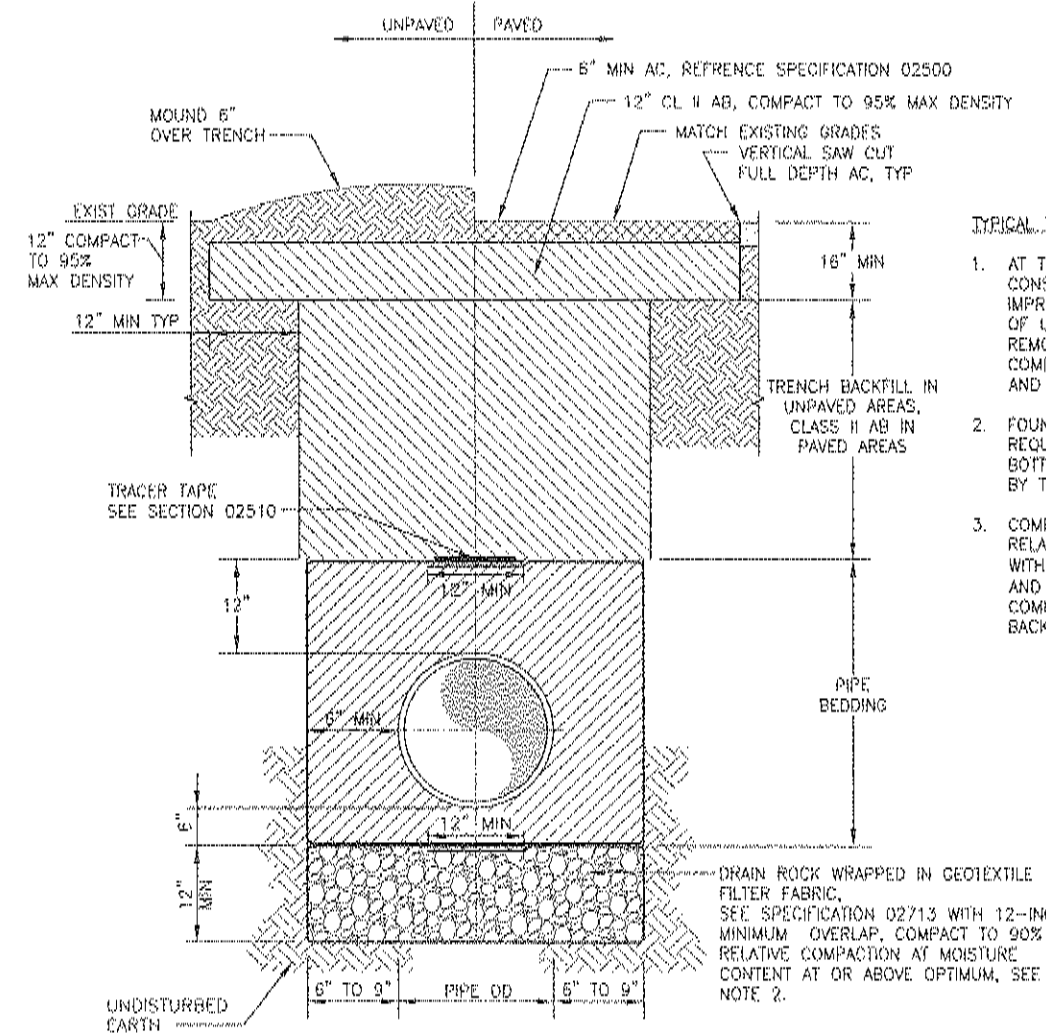
Project: 1 Sewer Replacement Design: C:\Users\alr\Desktop\18\45462-0902-C04-C05.dwg 4-12-10 11:51:11 AM snichols



TYPICAL LATERAL RECONNECTION TO LOWER SEWER

DETAIL A VAR NOT TO SCALE

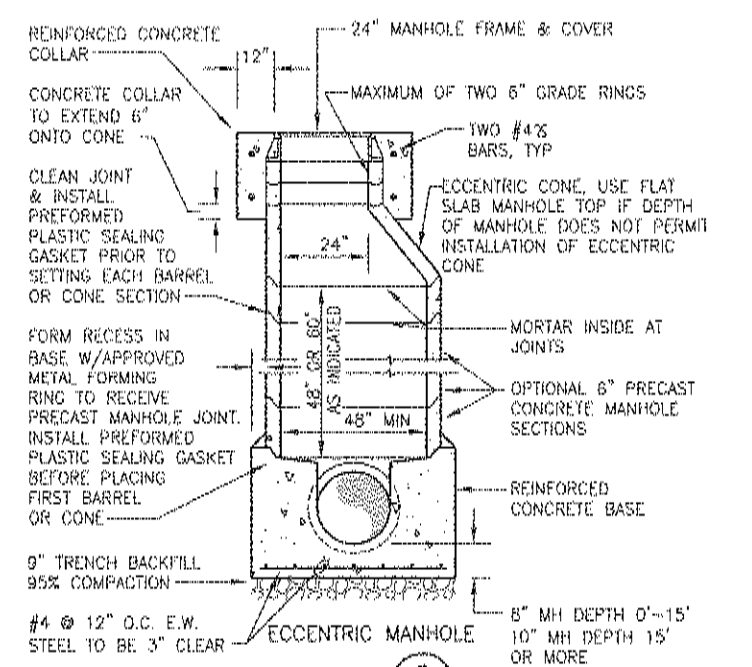
- LATERAL CONNECTION NOTES:**
1. EXTEND PORTION OF NEW LATERAL AS REQUIRED TO CONNECT TO EXISTING LATERAL AT SOUND PIPE.
 2. ALL JOINTS ON SEWER LATERAL PIPE SHALL BE COMPRESSION TYPE, UNLESS NOTED OTHERWISE.
 3. LATERAL PIPE AND FITTINGS SHALL MATCH SAME MATERIAL AND CLASS AS MAIN SEWER.
 4. USE FLEXIBLE RUBBER COUPLING WITH SHEAR BAND TO JOIN NEW PIPE TO EX PIPE.
 5. CONNECTION TO MAIN SEWER SHALL BE MADE WITH NEW PVC LATERAL.
 6. THIS DETAIL IS DIAGRAMMATIC MATCH EXISTING LATERAL CONFIGURATION.



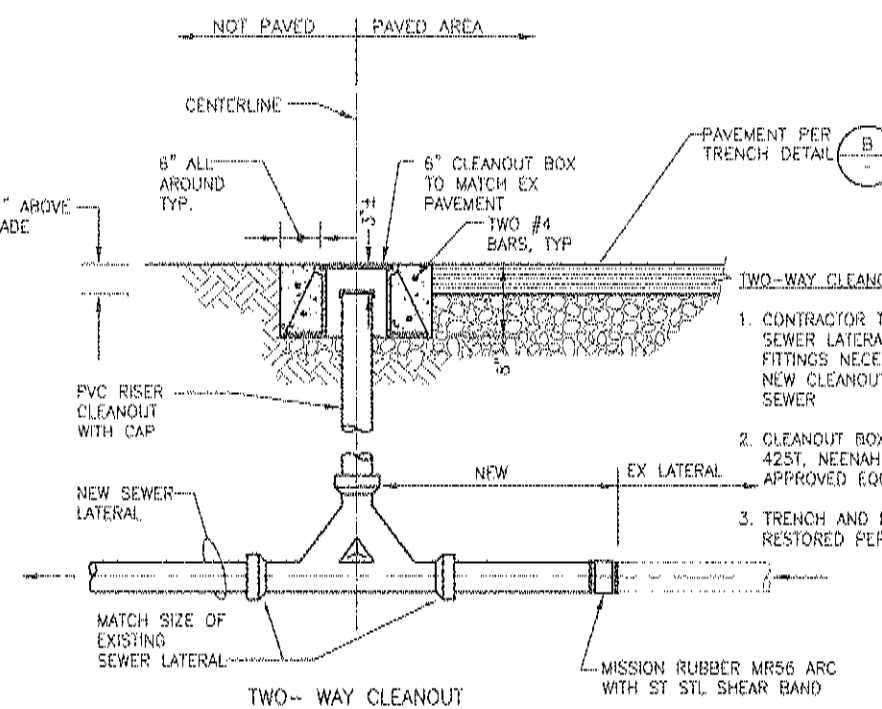
TRENCH SECTION

DETAIL B VAR NOT TO SCALE

- TYPICAL TRENCH NOTES:**
1. AT THE DIRECTION OF THE CONSTRUCTION MANAGER, SURFACE IMPROVEMENTS UNDERMINED BY LOSS OF UNDERLYING MATERIAL SHALL BE REMOVED, THE VOID FILLED AND COMPACTED WITH APPROVED MATERIAL, AND THE SURFACE RESTORED.
 2. FOUNDATION MATERIAL SHALL BE REQUIRED WHERE TRENCH OR PIT BOTTOMS ARE UNSTABLE, AS DIRECTED BY THE CONSTRUCTION MANAGER.
 3. COMPACT BACKFILL MATERIAL TO 90% RELATIVE COMPACTION. COMPACT WITHIN 3' OF PAVEMENT SUBGRADE AND A MINIMUM OF 95% RELATIVE COMPACTION WITH UPPER 3 FEET OF BACKFILL.

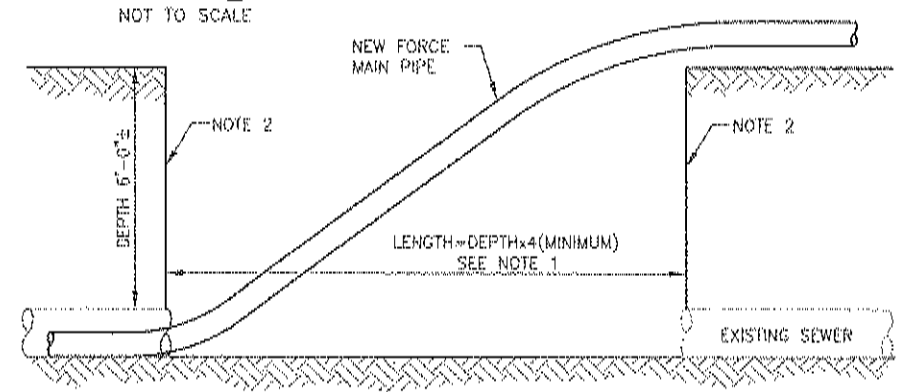


DETAIL C VAR NOT TO SCALE



DETAIL D VAR NOT TO SCALE

- TWO-WAY CLEANOUT NOTES:**
1. CONTRACTOR TO VERIFY SIZE OF EX SEWER LATERAL AND PROVIDE ALL FITTINGS NECESSARY TO INSTALL NEW CLEANOUT AND CONNECT NEW SEWER.
 2. CLEANOUT BOX SHALL BE JR SMITH 425T, NEENAH FOUNDRY R1792, OR APPROVED EQUAL.
 3. TRENCH AND EXCAVATION TO BE RESTORED PER DETAIL B.



FORCE MAIN LAUNCH PIT
DETAIL E C02 NOT TO SCALE

- NOTES:**
1. CONSTRUCT LAUNCH PIT SUCH THAT PIPE MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM PIPE DEFLECTIONS ARE NOT EXCEEDED.
 2. PROVIDE SHORING AS NECESSARY

LAUNCH PIT DIMENSIONS	
DEPTH	LENGTH
6'	24'



SUBMITTED: _____
DATE: _____
APPROVED: _____
DATE: _____

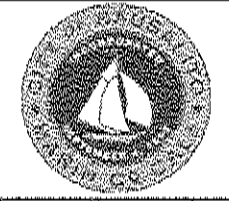
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SCALE: AS SHOWN
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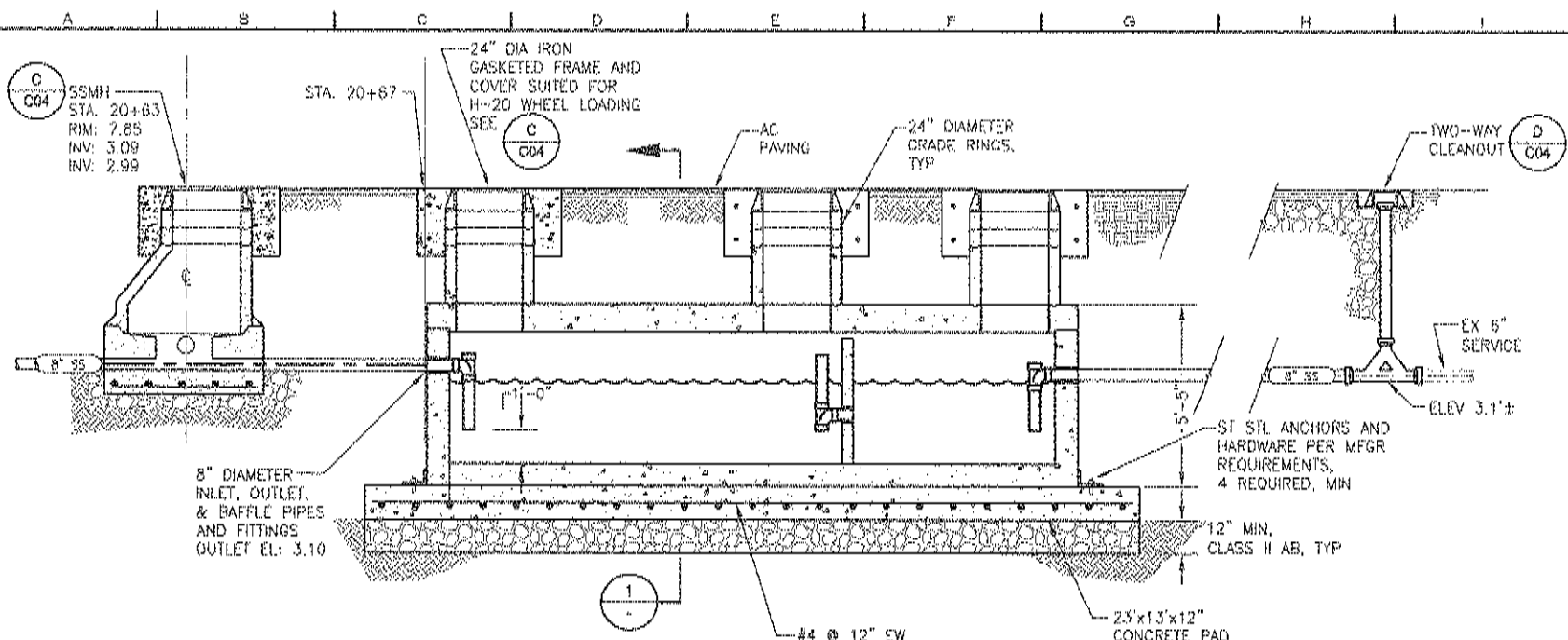


CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B

DETAILS 1

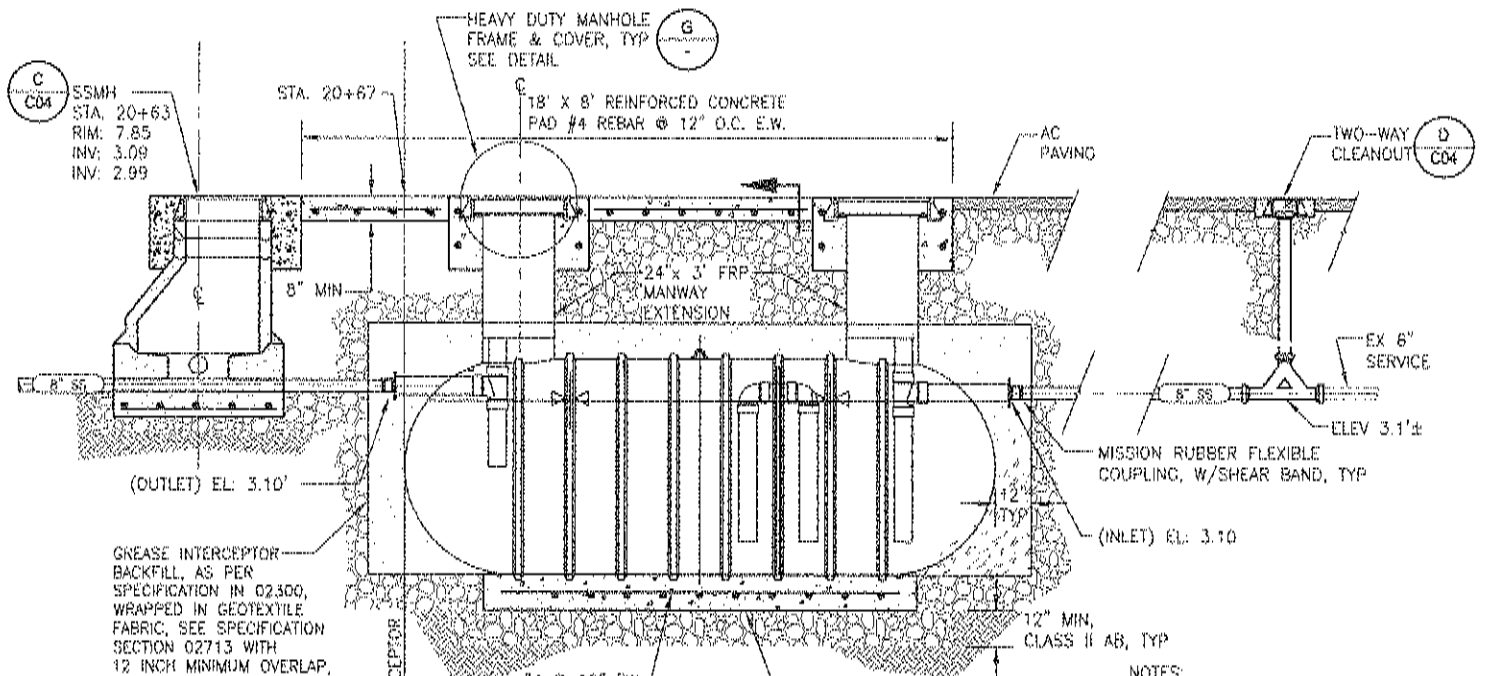
JOB NUMBER 454-02-09-02
DRAWING NUMBER C04
SHEET NUMBER 6 OF 24
REVISION

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ALTERNATIVE A GREASE INTERCEPTOR PRECAST (02605)

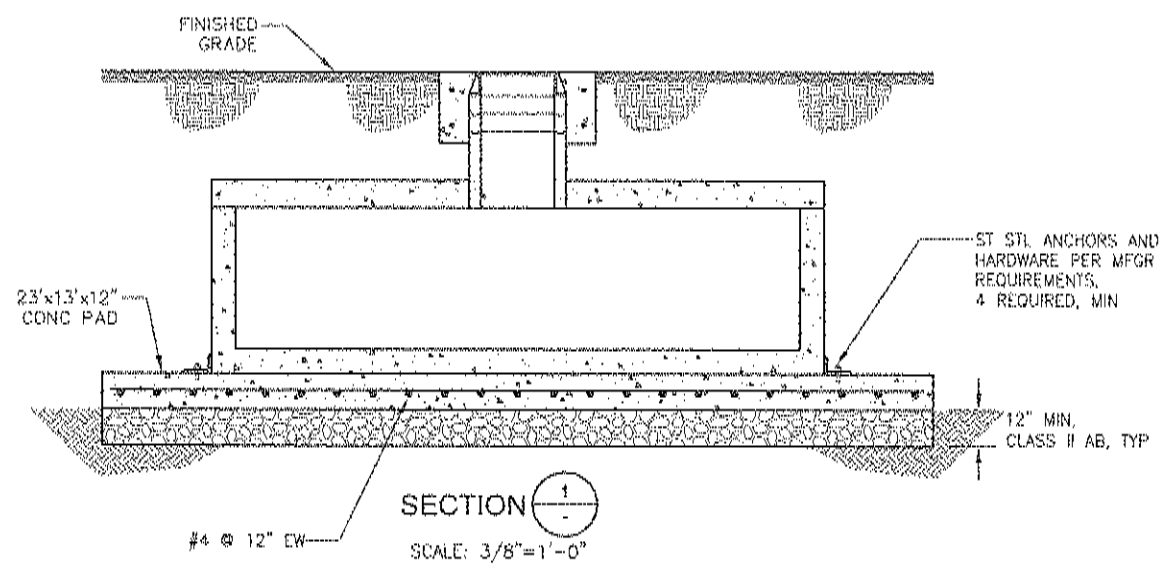
DETAIL F C03
NOT TO SCALE



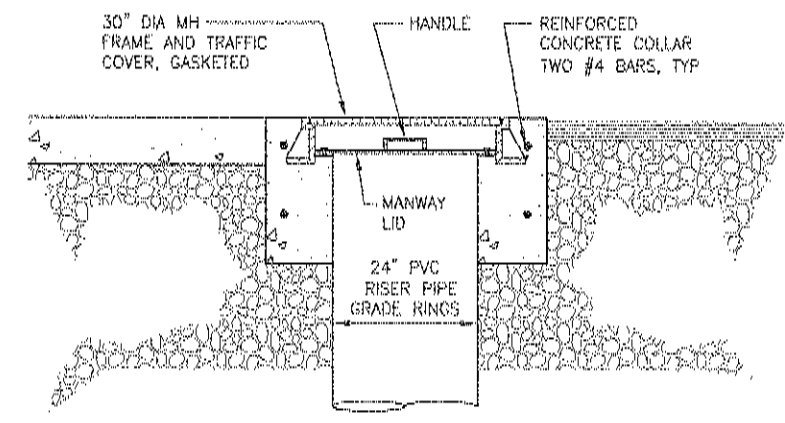
ALTERNATIVE B GREASE INTERCEPTOR FRP (13200)

DETAIL H C03
NOT TO SCALE

- NOTES:
1. MAINTAIN AT LEAST TWO (2) FEET CLEARANCE FROM THE EDGE OF THE TANK TO THE EDGE OF EXCAVATION.
 2. BACKFILL AROUND THE TANK SHALL BE AS PER SPECIFICATION 02300 EARTHWORK.
 3. ANCHOR TANK TO ANTI-FLOATATION BASE SLAB WITH STAINLESS FASTENERS AND ANCHORS.

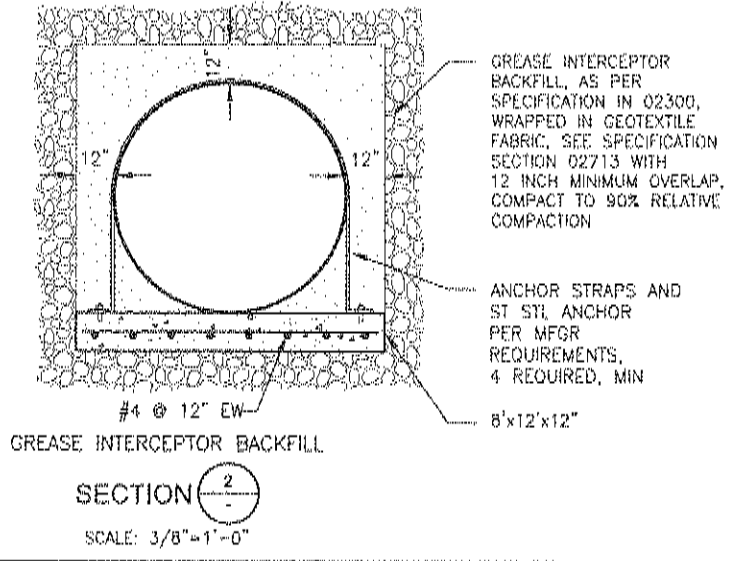


SECTION 1
SCALE: 3/8" = 1'-0"



HEAVY DUTY MANHOLE FRAME AND COVER

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



GREASE INTERCEPTOR BACKFILL

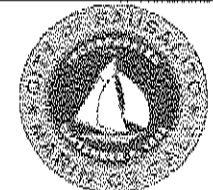
SECTION 2
SCALE: 3/8" = 1'-0"



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APPROVED: _____
DATE: _____

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CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B

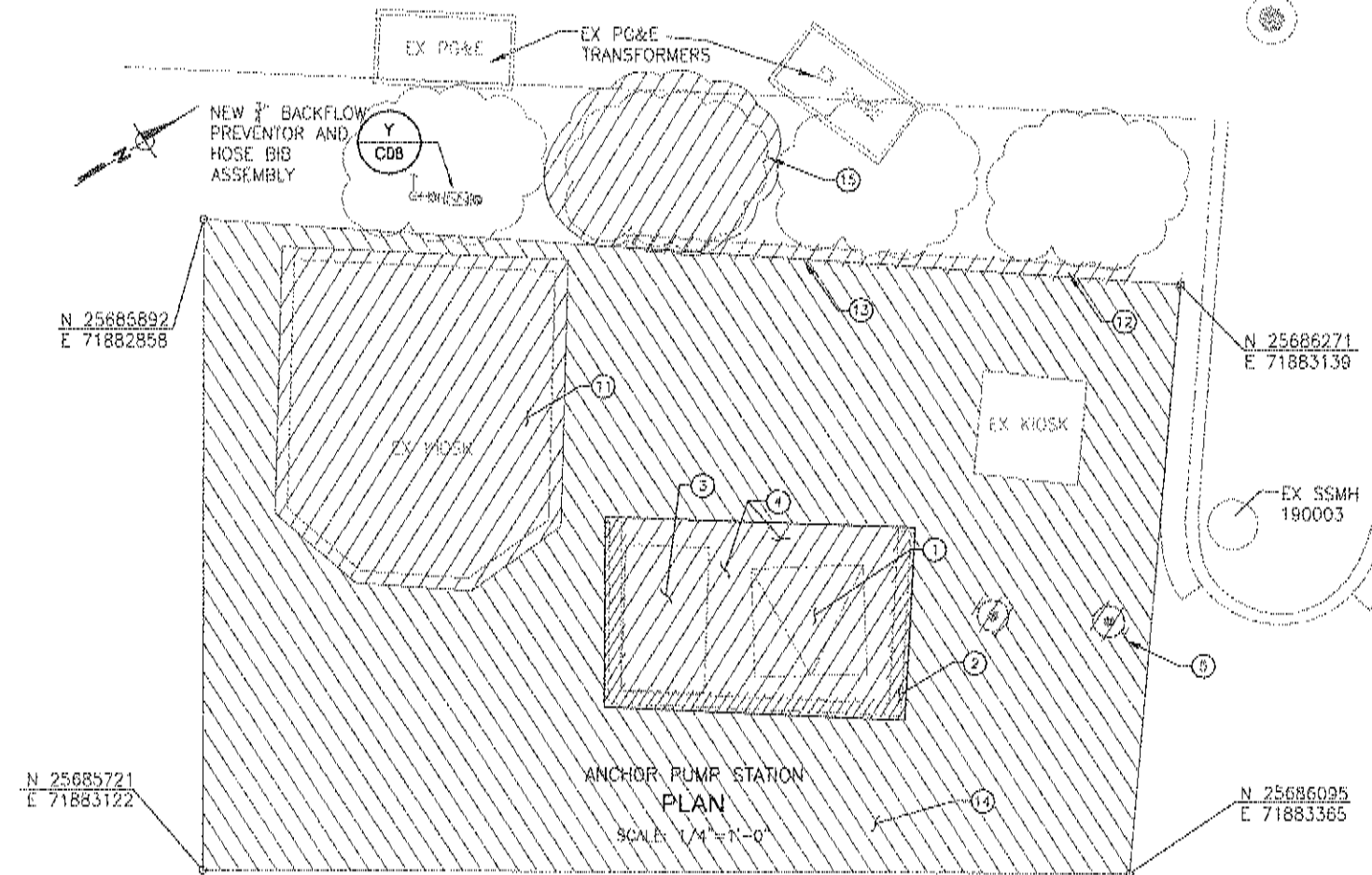
DETAILS 2

JOB NUMBER 454-02-09-02
DRAWING NUMBER C05
SHEET NUMBER 7 OF 24
REVISION

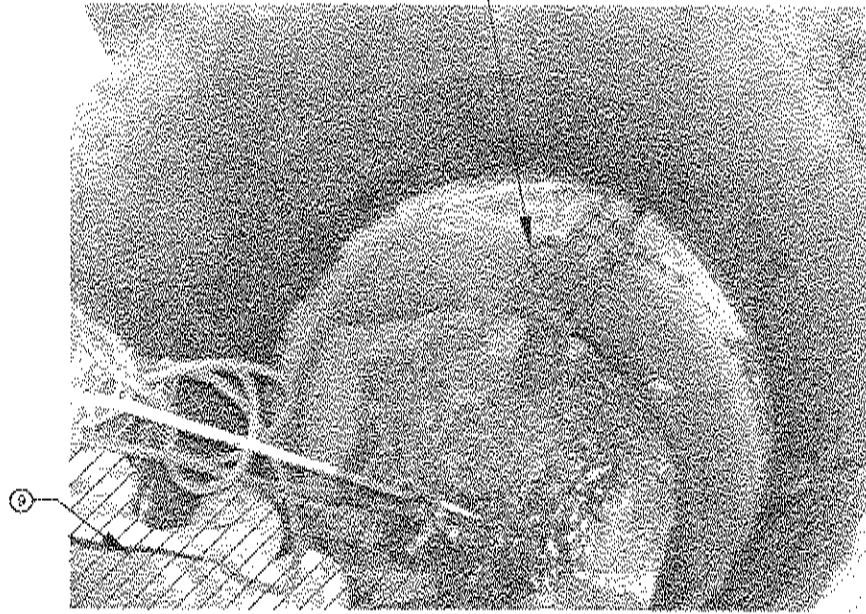
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- NOTES:
- ① REMOVE & DISPOSE OF STEEL WET WELL HATCH.
 - ② REMOVE & DISPOSE OF ±12" HIGH CONC CURB.
 - ③ REMOVE & DISPOSE OF ELECTRICAL AND CONTROLS PEDESTAL. SALVAGE ULTRA SONIC LEVEL SENSOR AND ELECTRONICS UNIT.
 - ④ REMOVE AND DISPOSE OF 10" THICK CONCRETE SLAB.
 - ⑤ REMOVE AND DISPOSE OF TRAFFIC BOLLARDS, TYP OF 2.
 - ⑥ REMOVE AND DISPOSE OF ALL EX DISCHARGE PIPING. EX SUBMERSIBLE PUMPS TO BE SALVAGED AND INCORPORATED INTO THE NEW WORK.
 - ⑦ REMOVE EX PIPE SUPPORT BRACKET.
 - ⑧ REMOVE AND SALVAGE EX ULTRA SONIC LEVEL SENSOR.
 - ⑨ REMOVE AND DISPOSE OF EX GATE VALVE AND COUPLING ON INLET PIPING.
 - ⑩ REMOVE AND SALVAGE EX SUBMERSIBLE PUMPS AND POWER CABLES. DISPOSE OF DISCHARGE ELBOW AND EX GUIDE RAILS.
 - ⑪ DEMOLISH EXISTING KIOSK AND KIOSK FOUNDATION. PROVIDE CLASS 2 AB FILL FOR VOID AS NEEDED.
 - ⑫ REMOVE AND DISPOSE OF EXISTING AC CURB.
 - ⑬ REMOVE AND DISPOSE OF WOODEN CURB.
 - ⑭ SAW CUT EXISTING PAVEMENT. TACK COAT EXISTING PAVEMENT CUT SURFACE PRIOR TO PLACING NEW AC.
 - ⑮ REMOVE EXIST BUSHES FOR NEW PEDESTAL.

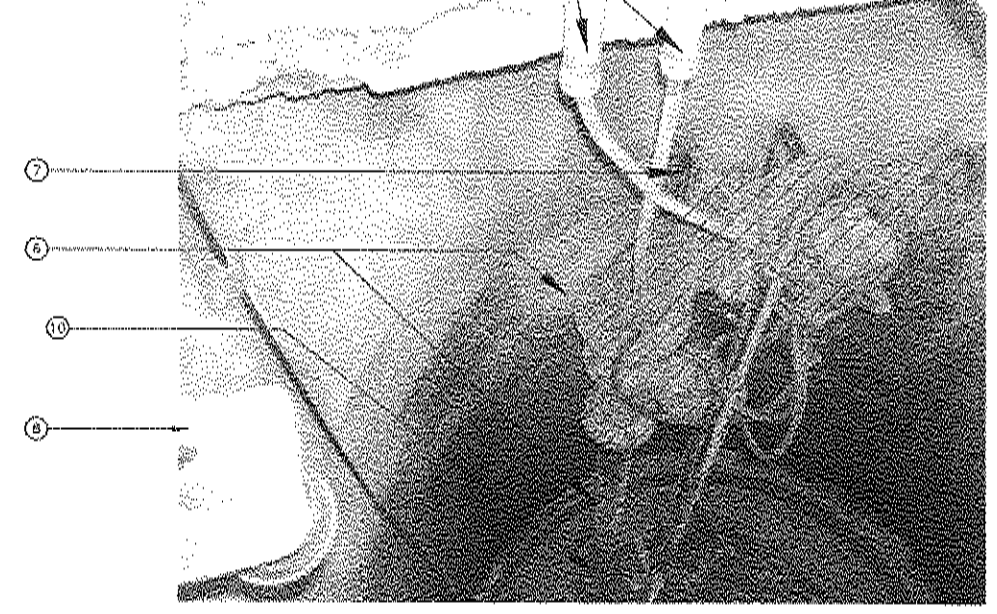
- ITEMS TO SALVAGE AND REUSE
- PUMPS AND CABLES
 - ULTRA SONIC LEVEL SENSOR AND ELECTRONICS UNIT



ANCHOR PUMP STATION
LOOKING WEST



ANCHOR PUMP STATION
WETWELL INLET PIPING



ANCHOR PUMP STATION
WETWELL INTERNAL PIPING



SUBMITTED: _____
DATE: _____
APPROVED: _____
DATE: _____

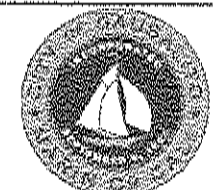
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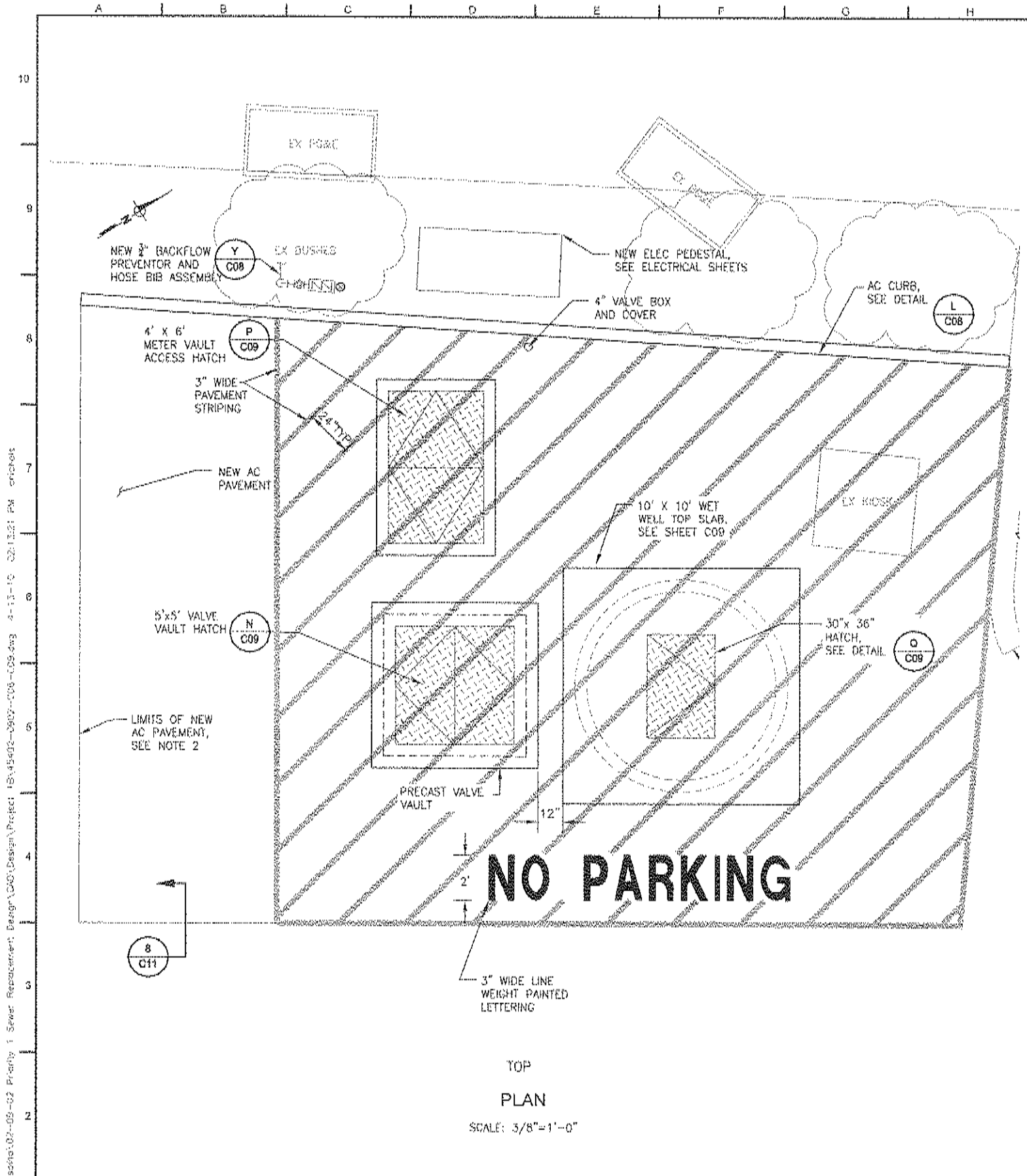
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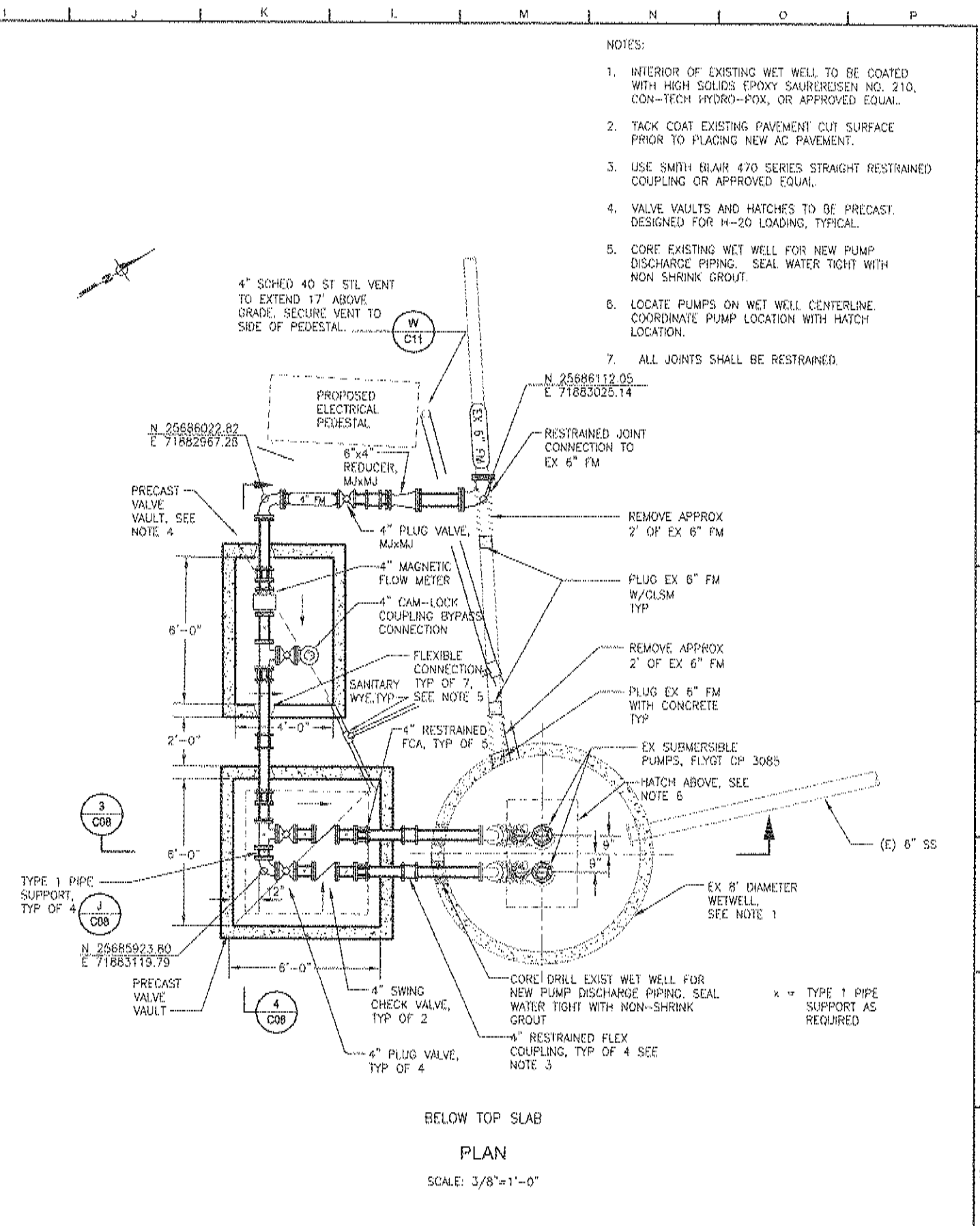
**CITY OF SAUSALITO PRIORITY 1 SEWER
REPLACEMENT PROJECT 1B
ANCHOR PUMP STATION
DEMOLITION PLAN**

JOB NUMBER	454-02-09-02
DRAWING NUMBER	C06
SHEET NUMBER	8 of 24
REVISION	



NO PARKING

TOP
PLAN
SCALE: 3/8"=1'-0"



BELOW TOP SLAB
PLAN
SCALE: 3/8"=1'-0"

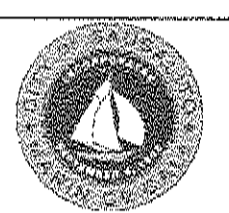
- NOTES:
1. INTERIOR OF EXISTING WET WELL TO BE COATED WITH HIGH SOLIDS EPOXY SAUREISEN NO. 210, CON-TECH HYDRO-POX, OR APPROVED EQUAL.
 2. TACK COAT EXISTING PAVEMENT CUT SURFACE PRIOR TO PLACING NEW AC PAVEMENT.
 3. USE SMITH BLAIR 470 SERIES STRAIGHT RESTRAINED COUPLING OR APPROVED EQUAL.
 4. VALVE VAULTS AND HATCHES TO BE PRECAST, DESIGNED FOR H-20 LOADING, TYPICAL.
 5. CORE EXISTING WET WELL FOR NEW PUMP DISCHARGE PIPING. SEAL WATER TIGHT WITH NON SHRINK GROUT.
 6. LOCATE PUMPS ON WET WELL CENTERLINE. COORDINATE PUMP LOCATION WITH HATCH LOCATION.
 7. ALL JOINTS SHALL BE RESTRAINED.

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DATE: _____	DRAWN BY: ALN								
	DESIGNED BY: DL								
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		No.	ZONE	REVISIONS	BY	DATE			

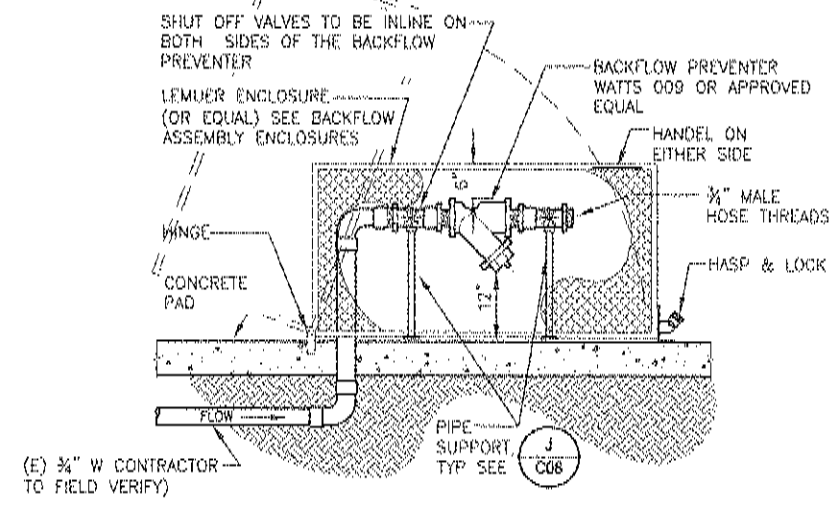
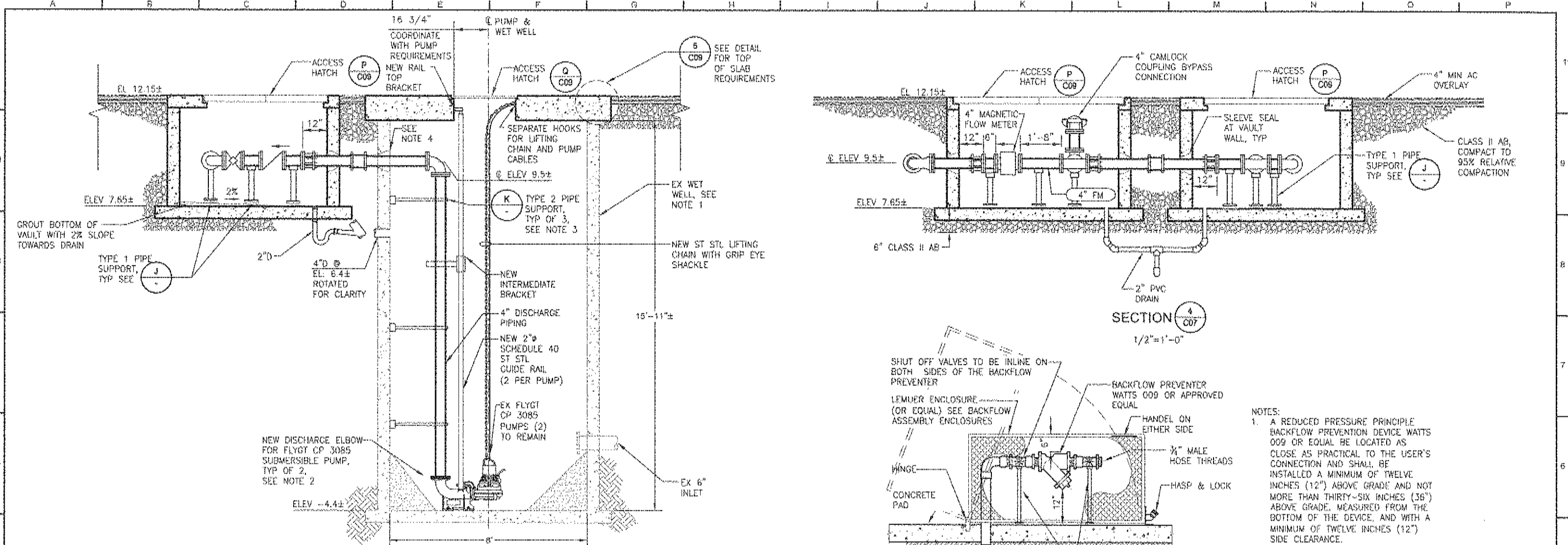
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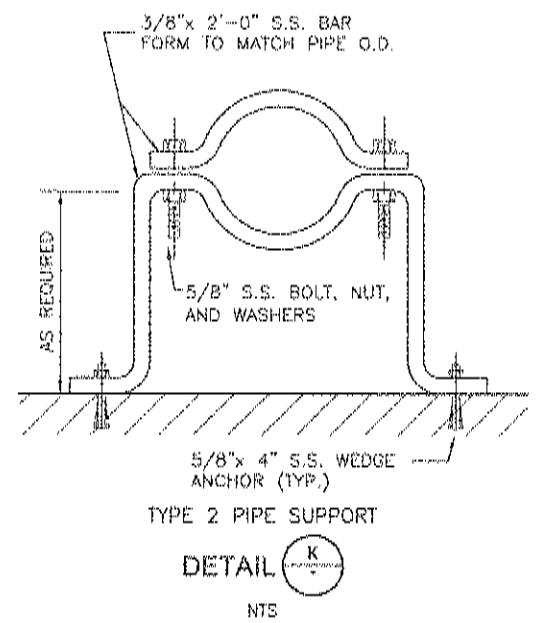
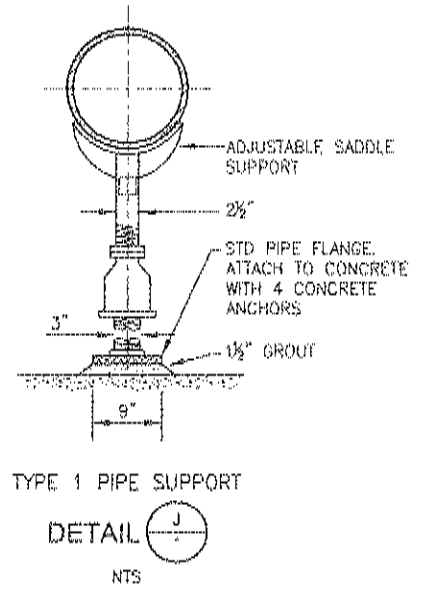
CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
ANCHOR PUMP STATION
WET WELL/ VALVE VAULT
PLANS

JOB NUMBER 154-02-09-02
DRAWING NUMBER C07
SHEET NUMBER 9 OF 24
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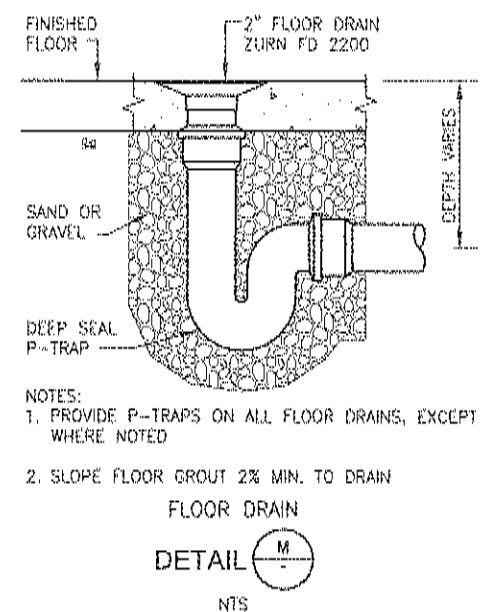
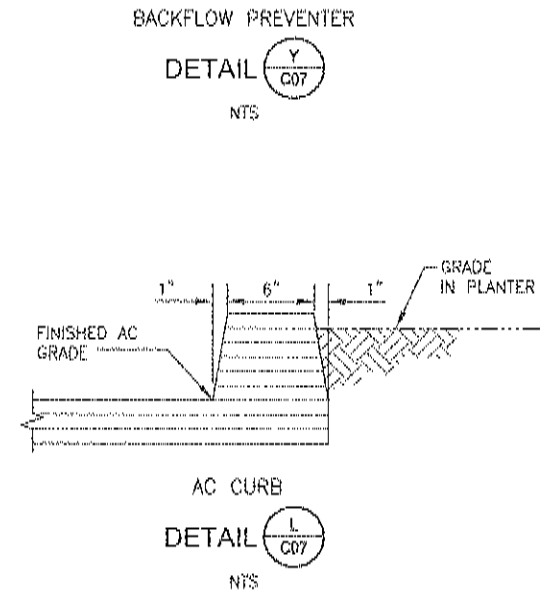
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- NOTES:
1. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE WATTS 009 OR EQUAL BE LOCATED AS CLOSE AS PRACTICAL TO THE USER'S CONNECTION AND SHALL BE INSTALLED A MINIMUM OF TWELVE INCHES (12") ABOVE GRADE AND NOT MORE THAN THIRTY-SIX INCHES (36") ABOVE GRADE, MEASURED FROM THE BOTTOM OF THE DEVICE, AND WITH A MINIMUM OF TWELVE INCHES (12") SIDE CLEARANCE.
 2. INSTALLATIONS SHALL MEET ALL REQUIREMENTS OF THE STATE CODE TITLE 17.



- NOTES:
1. ENTIRE INTERIOR SURFACE OF EXISTING WETWELL AND UNDERSIDE OF NEW SLAB TO BE COATED WITH HIGH SOLIDS EPOXY SAUREREISEN NO. 210, CON-TECH HYDRO-POX, OR APPROVED EQUAL.
 2. EXISTING DISCHARGE ELBOW FOR FLYGT CP 3085 PUMPS TO BE REMOVED AND REPLACED. EXISTING ANCHOR BOLTS TO BE REMOVED AND NEW 3/4"x4 1/2" EMBED DIAMETER ANCHOR BOLTS TO BE INSTALLED WITH EPOXY, SIMPSON SET OR EQUAL.
 3. EXISTING WET WELL INTERIOR TO BE COATED PRIOR TO INSTALLATION OF TYPE 2 PIPE SUPPORTS.
 4. INSTALL TELLEBORG KOR-N-SEAL SERIES 104/108 FLEXIBLE CONNECTION OR APPROVED EQUAL. AT WALL PENETRATIONS OF VAULTS.

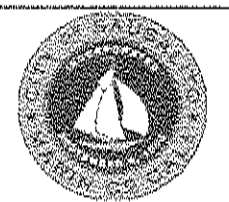


- NOTES:
1. PROVIDE P-TRAPS ON ALL FLOOR DRAINS, EXCEPT WHERE NOTED
 2. SLOPE FLOOR GROUT 2% MIN. TO DRAIN



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APPROVED: _____	DRAWN BY: ALB				
DATE: _____	DESIGNED BY: KSB				
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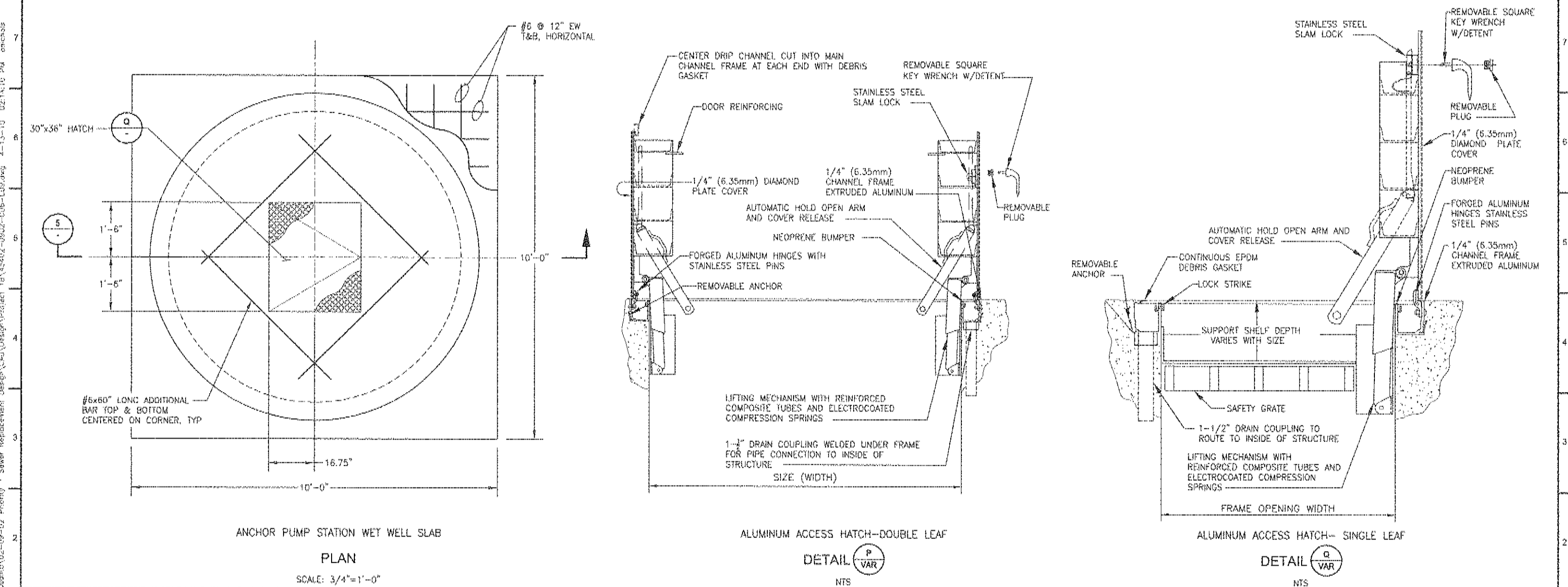
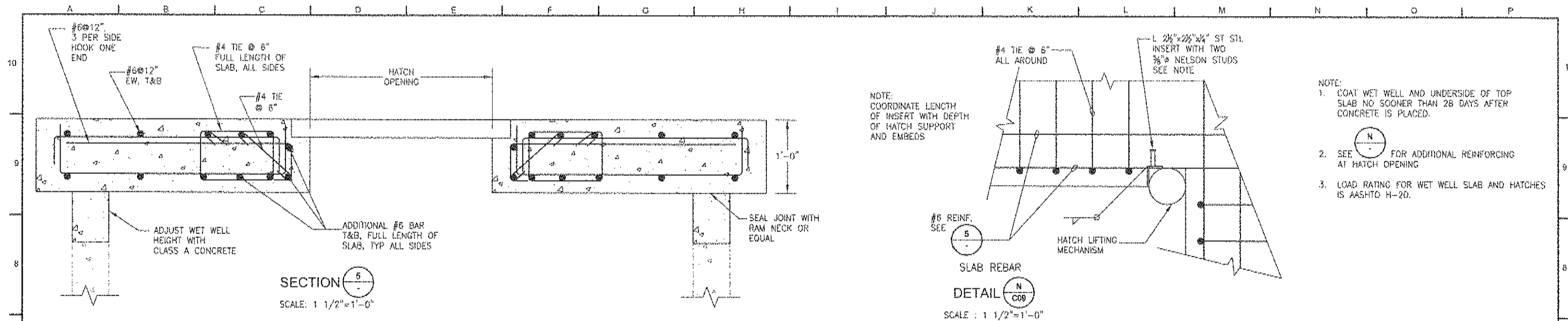
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CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
 ANCHOR PUMP STATION WET WELL/ VALVE VAULT SECTIONS AND DETAILS

JOB NUMBER 454-02-09-02
DRAWING NUMBER C08
SHEET NUMBER 10 OF 24
REVISION

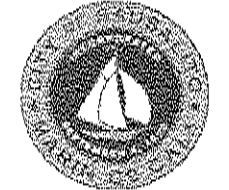
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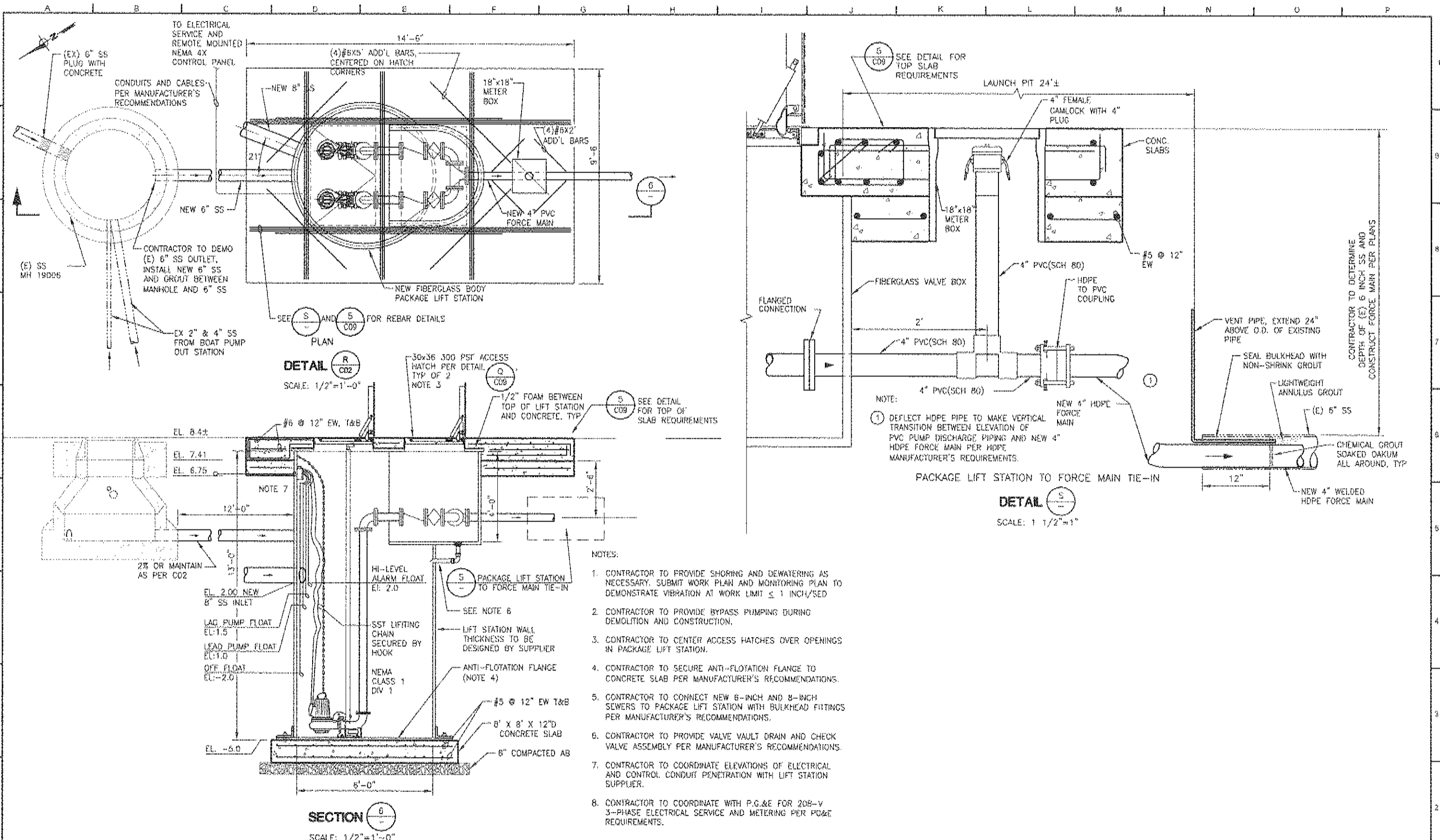
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CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
 ANCHOR PUMP STATION WET WELL/ VALVE VAULT SECTIONS AND DETAILS

JOB NUMBER 454-02-09-02
DRAWING NUMBER C09
SHEET NUMBER 11 OF 24
REVISION

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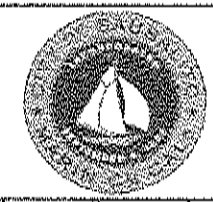
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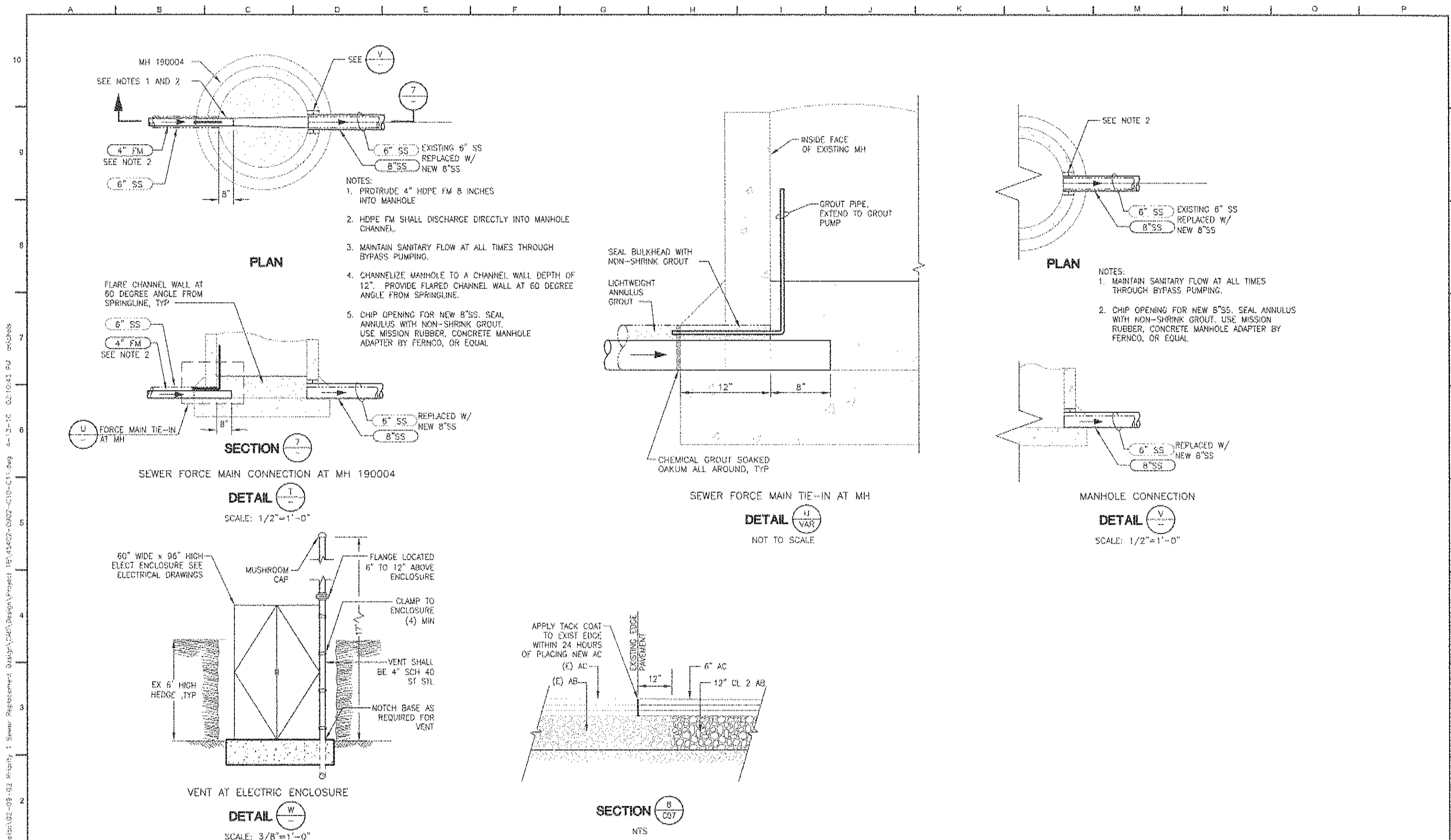
CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B

MANHOLE 190006

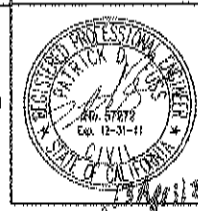
PACKAGE LIFT STATION

STA 18+89

JOB NUMBER 454-02-09-02
DRAWING NUMBER C10
SHEET NUMBER 12 OF 24
REVISION

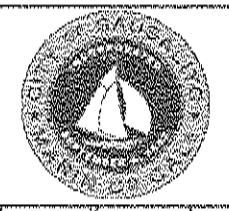


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CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
MANHOLE DETAILS

JOB NUMBER 454-02-09-02
DRAWING NUMBER C11
SHEET NUMBER 13 of 24
REVISION

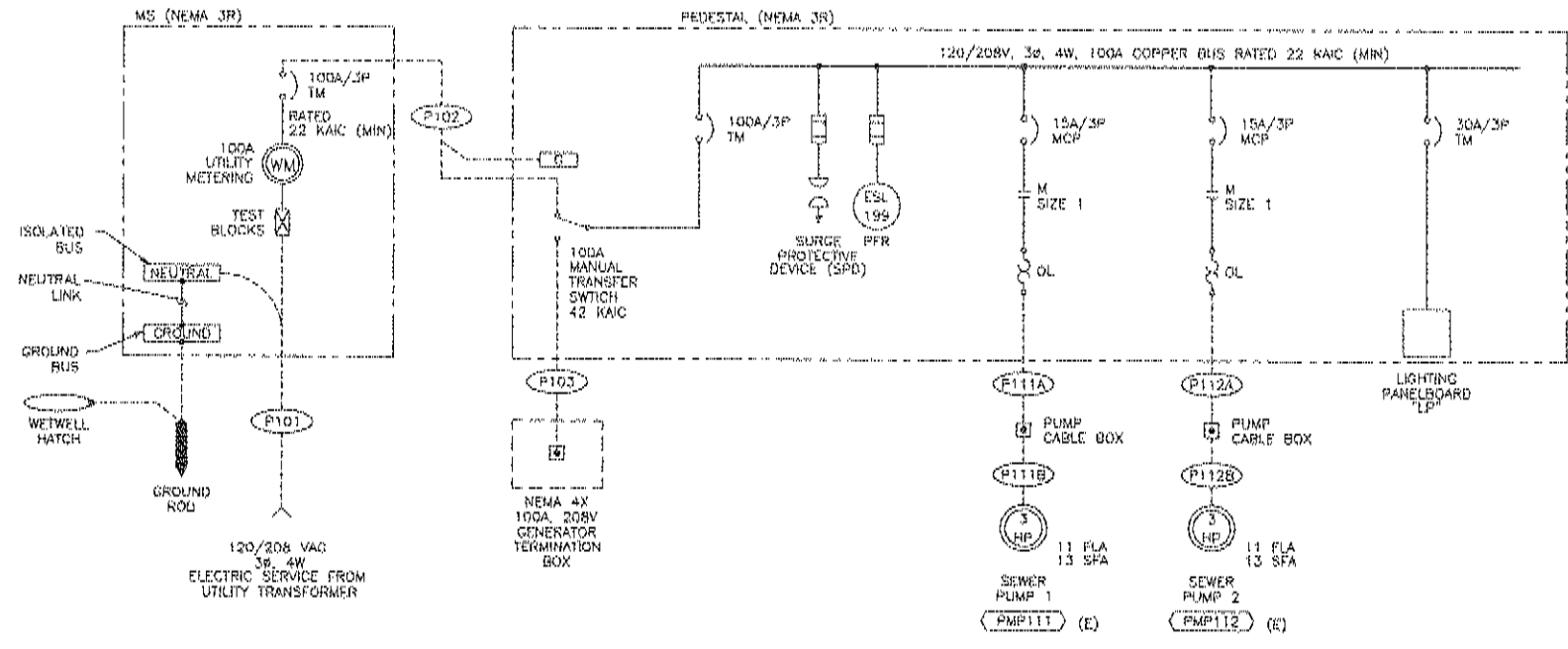
DWG REF: 602		MOUNTING: FLUSH		VOLTS: 120 / 208		BUS AMPS: 100		ENTRY: NCMA	
NAMEPLATE: LP		PHASE: 3		PHASE: 3		MAIN BKR: 30		SPD:	
LOCATION:		WIRE: 4		WIRE: 4		KAIC RATING: 10		SPD:	

BKR NO.	LOAD DESCRIPTION	LOAD VA	LINE AMPS	BKR AMP/POLE	BKR NO.	PHASE	BKR AMP/POLE	LINE AMPS	LOAD VA	LOAD DESCRIPTION	BKR NO.
1	RTU CONTROLS	500		20/1	1	A	2	20/1	200	FED LIGHTS & HEATERS	2
3	MOTOR CONTROLS	500		20/1	3	B	4	20/1	180	RECPY	4
5	GEN BLOCK HTR/BATT CHRG RECPY	750		20/1	5	C	6	20/1	180	TELCO RECPY	6
7	SPARE	0		20/1	7	A	8	20/1	0	SPARE	8

PHASE	A	B	C	PHASE	A	B	C
LEFT SIDE AMPS	4	4	6	RIGHT SIDE AMPS	2	2	2
LEFT SIDE KVA	0.50	0.50	0.75	RIGHT SIDE KVA	0.20	0.18	0.18
TOTAL KVA	2.51			LEFT SIDE KVA	0.50	0.50	0.75
TOTAL AMPS @ 240V, 3P	11.1			TOTAL PHASE KVA	0.70	0.68	0.93
DIVERSITY FACTOR	0.80			TOTAL PHASE AMPS	6	6	8
LOAD KVA	2.00			% OF AVERAGE	91	88	124

NOTES: 1. MEANS OF WIRE COLOR CODING SHALL BE POSTED ON PANELBOARD PER NEC 210 (5).

LOAD CALCULATIONS	UTILITY SERVICE					
	LOAD AMPS	QTY	LOAD VA	RUN AMPS	QTY	RUN VA
3 PUMP	11	2	7,638		2	7,638
LIGHTING PANEL LP	5.8	1	2,079		1	2,079
SUBTOTAL	27		9,717	27		9,717
DIVERSITY FACTOR	100 %					
Largest motor @ 25% additional				3,819	0.25	955
TOTAL				10,671		
/ 208 V, 3 Phase 4 Wire Service Amps =				30 Amps		
Service Size =				1.25 Multiplier		
Feeder Breaker Size =				37 Amps		
% Feeder Breaker Load =				100 Amps		
				37.0%		



ONE LINE DIAGRAM

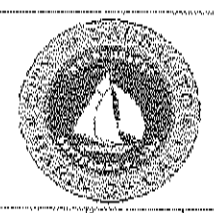
NOTES: 1. ALL LUGS SHALL BE COPPER, SIZE FOR WIRES LISTED IN CONDUIT & WIRE ROUTING SCHEDULE.

POWER UTILITY SERVICE	Electrical Contractor	Utility Company
DIVISION OF WORK		
Primary Conduits	N/A	
Primary Conductors	N/A	
Transformer Pad	N/A	
Transformer		N/A
Transformer Connections		N/A
Transformer Ground Rod	N/A	
Secondary Conduits	X	X
Secondary Conductors		
Power Pull Box	N/A	
Bulkheads	N/A	
Meter Enclosure/Base	X	
Utility Meter		X
C/T Enclosure	N/A	
Current Transformers C/T		N/A
Meter Room Lock Box	N/A	
Power Company Information:		
Contact Name:	Pacific Gas & Electric	
Power Utility:		
Address:		
City/State/Zip:		
Phone:		
Fax:		
Pager:		
E-mail:		
Notes:		
1.	All Utility Service Installation work shall be done by Contractor per Power Utility Engineered drawings (which supersedes what is shown on Contract Drawings).	
2.	Contractor shall coordinate and schedule all Power Utility inspections and tests in strict compliance with Power Utility requirements.	

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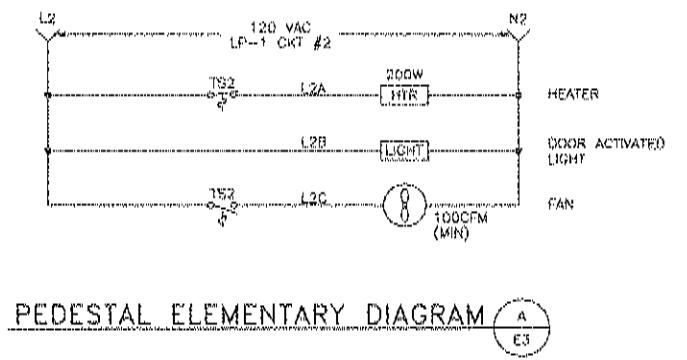
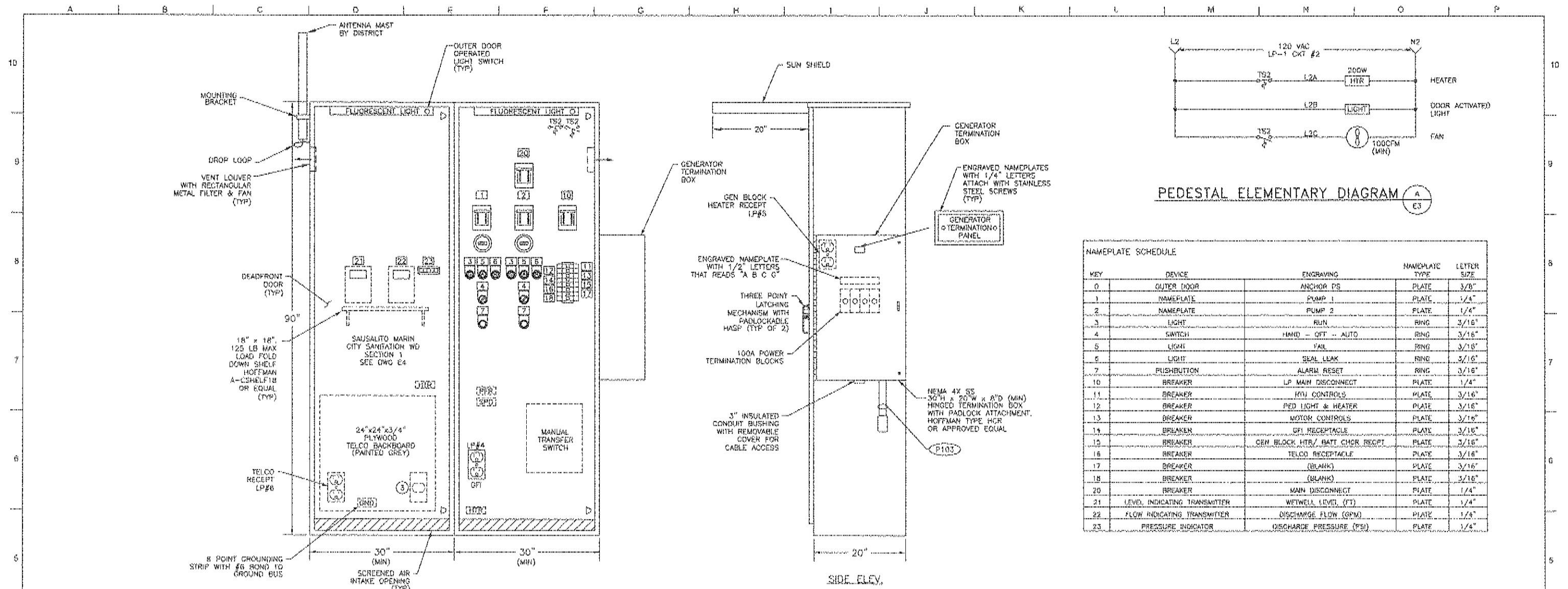
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DRAWN BY:	KADS		
DESIGNED BY:	XLL		
PRD./MGR.:	PDP		
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CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
 ANCHOR PUMP STATION
 ONE LINE DIAGRAM

JOB NUMBER	454-02-09-02
DRAWING NUMBER	E2
SHEET NUMBER	15 of 24
REVISION	

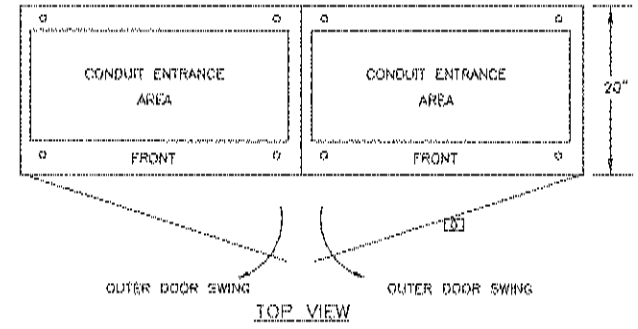


NAMEPLATE SCHEDULE

KEY	DEVICE	ENGRAVING	NAMEPLATE TYPE	LETTER SIZE
0	OUTER DOOR	ANCHOR DS	PLATE	3/8"
1	NAMEPLATE	PUMP 1	PLATE	1/4"
2	NAMEPLATE	PUMP 2	PLATE	1/4"
3	LIGHT	RUN	RING	3/16"
4	SWITCH	HAND - OFF - AUTO	RING	3/16"
5	LIGHT	FAIL	RING	3/16"
6	LIGHT	SEAL LEAK	RING	3/16"
7	PUSHBUTTON	ALARM RESET	RING	3/16"
10	BREAKER	LP MAIN DISCONNECT	PLATE	1/4"
11	BREAKER	RTU CONTROLS	PLATE	3/16"
12	BREAKER	PED LIGHT & HEATER	PLATE	3/16"
13	BREAKER	MOTOR CONTROLS	PLATE	3/16"
14	BREAKER	GFI RECEPTACLE	PLATE	3/16"
15	BREAKER	CEN BLOCK HTR/ BATT CHGR RECPT	PLATE	3/16"
16	BREAKER	TELCO RECEPTACLE	PLATE	3/16"
17	BREAKER	(BLANK)	PLATE	3/16"
18	BREAKER	(BLANK)	PLATE	3/16"
20	BREAKER	MAIN DISCONNECT	PLATE	1/4"
21	LEVEL INDICATING TRANSMITTER	WETWELL LEVEL (FT)	PLATE	1/4"
22	FLOW INDICATING TRANSMITTER	DISCHARGE FLOW (GPM)	PLATE	1/8"
23	PRESSURE INDICATOR	DISCHARGE PRESSURE (PSI)	PLATE	1/4"

FRONT COMPARTMENT ELEV.
PEDESTAL ELEVATION ① ②

NOTES: ① ITEMS DRAWN IN DASHED LINES ARE TO BE LOCATED BEHIND DEADFRONT DOORS
 OUTER DOORS ARE NOT SHOWN ON FRONT VIEWS FOR ELEVATION CLARITY
 ② EACH BREAKER SHALL HAVE PADLOCKABLE PROVISION TO LOCK BREAKER IN THE OFF POSITION.
 ③ FOR CAT 5 CONNECTORS; 2 FOR TELEPHONE AND 2 FOR T1 LINE.



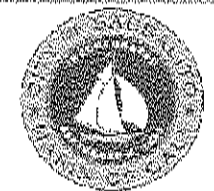
ELECTRICAL PEDESTAL BASE PLAN

FABRICATION METHODS

- NEMA 3R WEATHER-PROOFED FOR OUTSIDE INSTALLATION.
- ALL OUTER DOORS SEALED WITH PERMANENT TYPE GASKETING.
- EXTERIOR FABRICATED FROM HOT DIPPED GALVANIZED SHEET STEEL.
- 12 GAUGE EXTERIOR AND 14 GAUGE INTERIOR.
- ALL SEAMS CONTINUOUS WELDED.
- OUTER DOORS TO BE PADLOCKABLE WITH HEAVY DUTY 3 POINT LATCHES.
- DOOR HINGES AND PINS SHALL BE 316 STAINLESS STEEL.
- NO SCREWS, RIVETS, OR BOLTS SHALL PROTRUDE EXTERNALLY.
- INTERNAL SCREWS, RIVETS, BOLTS, AND NUTS SHALL BE STAINLESS STEEL.
- AS - BUILT WIRING DIAGRAMS SHALL BE SHIPPED WITH EQUIPMENT.
- EXTERIOR PANEL COLOR: TBD, SUBMIT PAINT CHIP DURING SUBMITTAL PROCESS.
- INTERIOR DEADFRONT DOOR COLOR: WHITE.
- PHENOLIC SCREW MOUNTED NAMEPLATES SHALL BE PROVIDED FOR ALL DEVICES ON DEADFRONT.
- FABRICATION AND WIRING SHALL CONFORM TO U.L. AND NEMA STANDARDS.
- ALL WIRING SHALL BE PERMANENTLY LABELED WITH WIRE MARKERS ON BOTH ENDS.
- WIRING DIAGRAMS SHALL BE PLACED IN A PLASTIC DRAWING HOLDER PERMANENTLY ATTACHED TO THE INSIDE OF THE FRONT DOOR.

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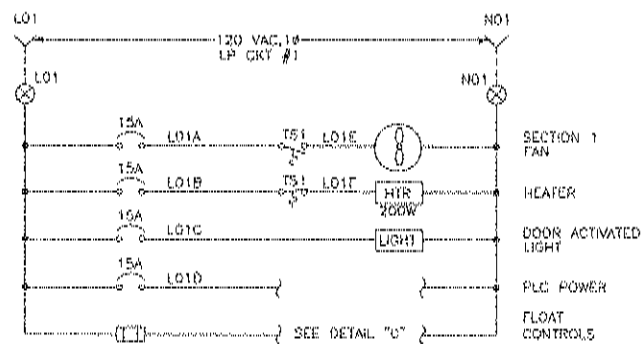
CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B

ANCHOR PUMP STATION PEDESTAL ELEVATION

JOB NUMBER	454-02-09-02
DRAWING NUMBER	E3
SHEET NUMBER	16 OF 24
REVISION	

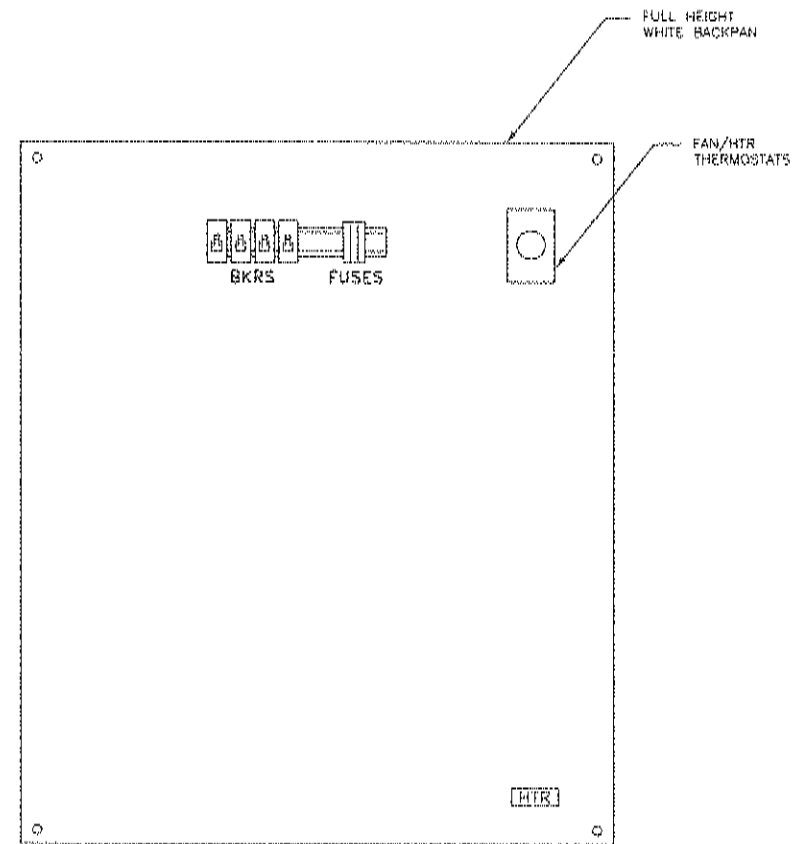


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	DESIGNED BY: X.L.J.								
	PROJ. MGR: EDE								
		No.	ZONE	REVISIONS	BY	DATE			



DISTRICT 120 VAC POWER DISTRIBUTION DIAGRAM (A) ①
E4

NOTES: ① DISTRIBUTION DIAGRAM REPRESENTATIVE OF MAJOR COMPONENTS ONLY. ADDITIONAL FUSES, CIRCUITS, AND COMPONENT CONNECTIONS MAY BE REQUIRED FOR A FUNCTIONAL SYSTEM.



DISTRICT RTU BACKPAN LAYOUT (B) NOT TO SCALE
E4

- NOTES:
- ① WIRE ALL DEVICES TO TERMINAL BLOCKS FOR FUTURE MODIFICATIONS.
 - ② PROVIDE 2/3 HEIGHT BACKPAN. LOWER SPACE TO BE USED FOR TELCO BACKBOARD.
 - ③ PROVIDE FULL HEIGHT REMOVABLE DEADFRONT DOOR.
 - ④ PROVIDE BACKPAN & DEADFRONT DOOR TO DISTRICT FOR DISTRICT'S USE. INSTALL RETURNED PANEL & DOOR PRIOR TO INSTALLATION IN FIELD.



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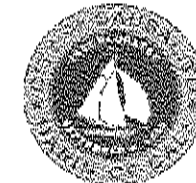
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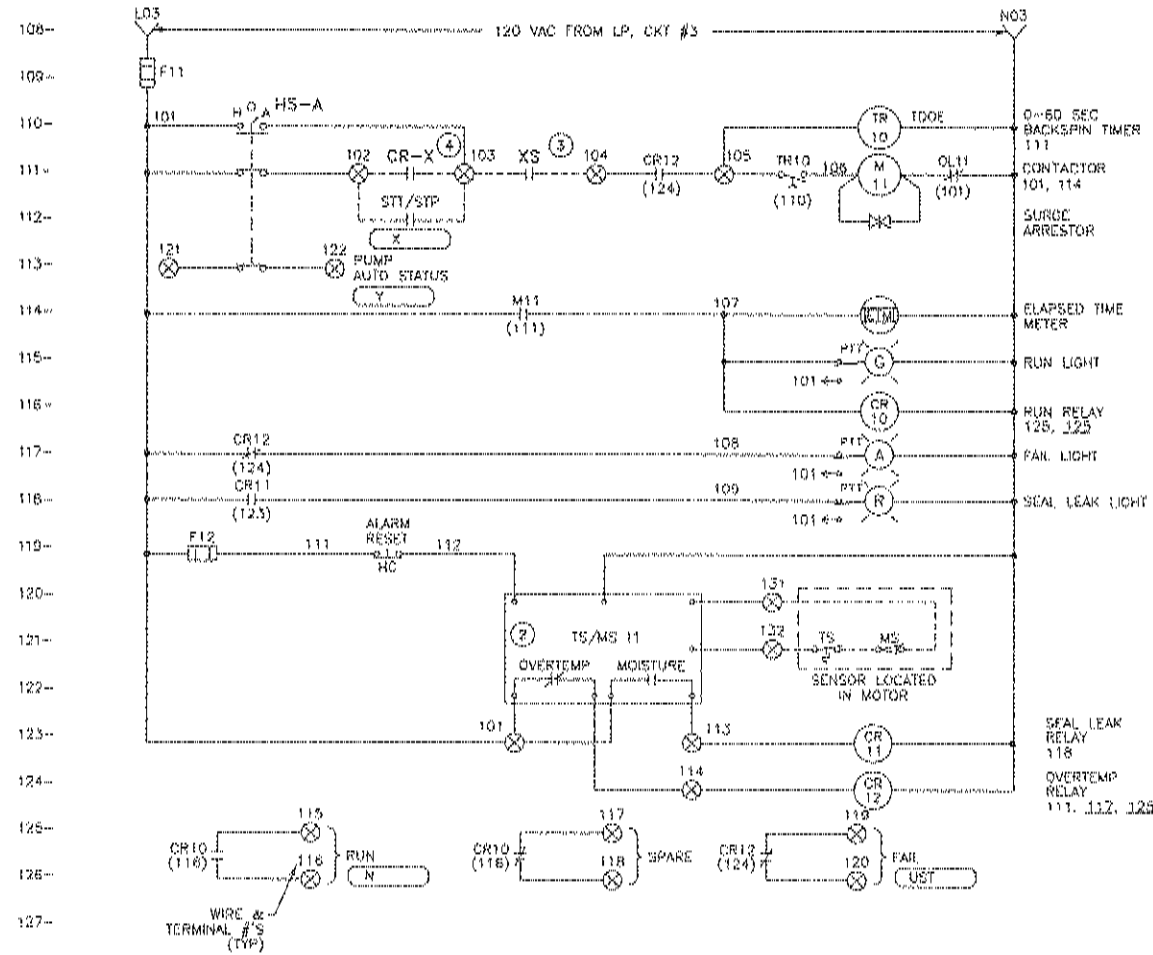
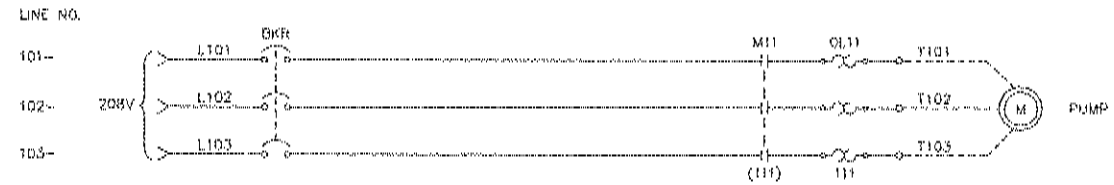
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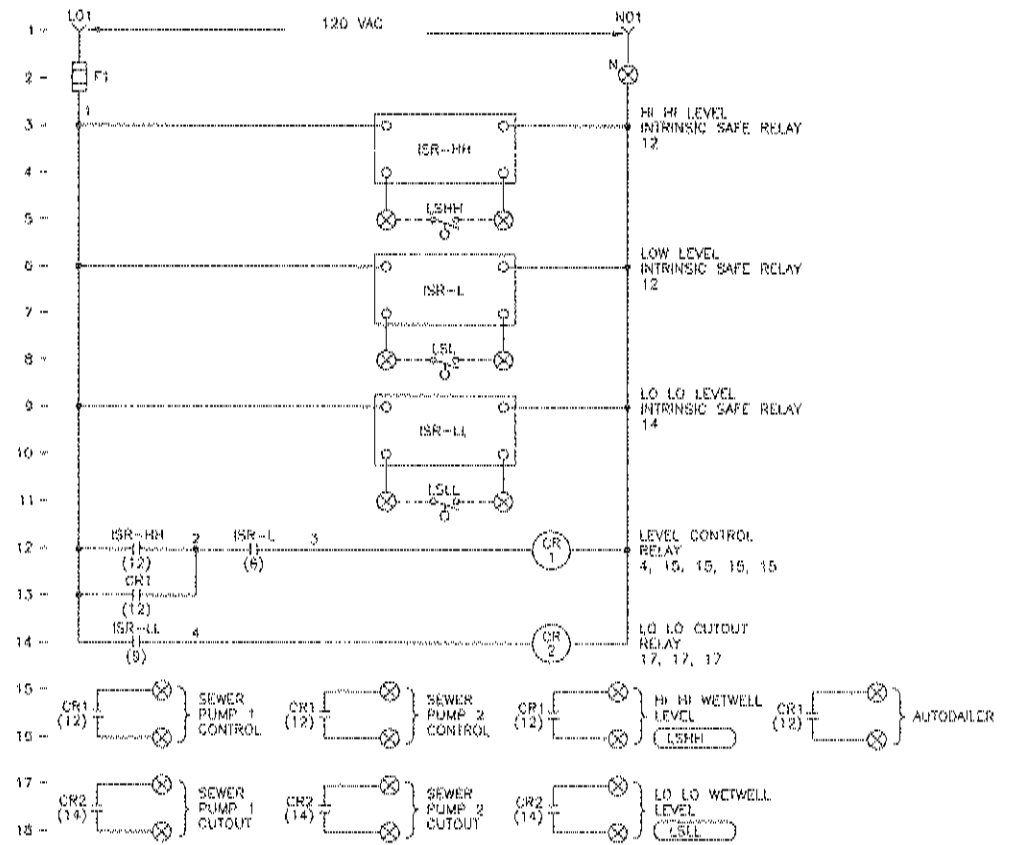
CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B

DISTRICT RTU LAYOUT & DISTRIBUTION DIAGRAM

JOB NUMBER 454-02-09-02
DRAWING NUMBER E4
SHEET NUMBER 17 OF 24
REVISION



PUMP ELEMENTARY DIAGRAM (A) (E5) (1)



FLOAT BACKUP CONTROL ELEMENTARY (B) (E5)

- NOTES:
- ① USE 100 SERIES & TERMINAL #S FOR PUMP 1, 200 #S FOR PUMP 2 SERIES, ETC
 - ② EXISTING SUBMERSIBLE MOTOR MOISTURE & OVERTEMPERATURE MODULE TO BE INSTALLED & WIRED BY PEDestal MANUFACTURER PER DWGS SUPPLIED WITH MODULE IF AVAILABLE.
 - ③ REMOTE SHUTDOWN XS => LSL, ZSHH, PSHH, ECT., PER P&ID. JUMPER IF NOT USED. THESE ARE TO BE CONTACTS OFF AUXILIARY RELAY CONTACTS LOCATED IN MCC CONTROL PANEL DRIVEN FROM FIELD DEVICE.
 - ④ SEE DWG E4, DETAIL "C" FOR FLOAT BACKUP CONTROL.

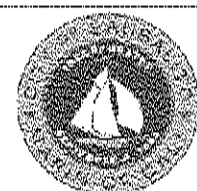


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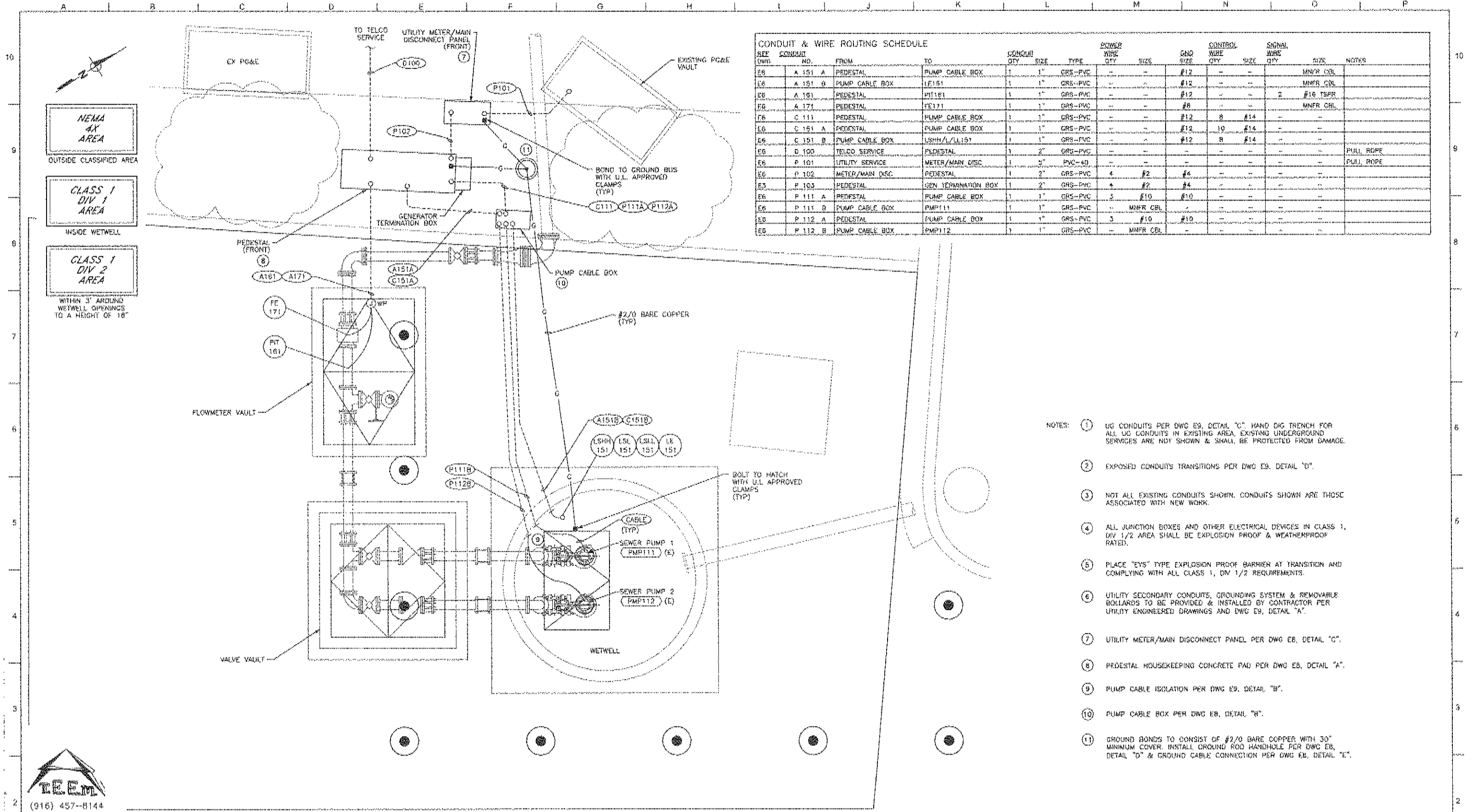
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CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
 ANCHOR PUMP STATION
 PUMP ELEMENTARY DIAGRAM

JOB NUMBER	454-02-09-02
DRAWING NUMBER	E5
SHEET NUMBER	18 OF 24
REVISION	



REF DWG	CONDUIT NO.	FROM	TO	CONDUIT QTY	SIZE	TYPE	POWER WIRE QTY	SIZE	GND SIZE	CONTROL WIRE QTY	SIZE	SIGNAL WIRE QTY	SIZE	NOTES
E6	A 151 A	PEDESTAL	PUMP CABLE BOX	1	1"	GRS-PVC	-	-	#12	-	-	-	-	MNFR CBL
E6	A 151 B	PUMP CABLE BOX	PEDESTAL	1	1"	GRS-PVC	-	-	#12	-	-	-	-	MNFR CBL
E6	A 101	PEDESTAL	METER/MAN DISC	1	1"	GRS-PVC	-	-	#12	-	-	2	#16 TSPR	
E6	A 171	PEDESTAL	PEDESTAL	1	1"	GRS-PVC	-	-	#8	-	-	-	-	MNFR CBL
E6	C 111	PEDESTAL	PUMP CABLE BOX	1	1"	GRS-PVC	-	-	#12	8	#14	-	-	
E6	C 151 A	PEDESTAL	PUMP CABLE BOX	1	1"	GRS-PVC	-	-	#12	10	#14	-	-	
E6	C 151 B	PUMP CABLE BOX	LSHH/L/LL151	1	1"	GRS-PVC	-	-	#12	8	#14	-	-	
E6	D 100	TELCO SERVICE	PEDESTAL	1	2"	GRS-PVC	-	-	-	-	-	-	-	PULL ROPE
E6	P 101	UTILITY SERVICE	METER/MAN DISC	1	3"	PVC-40	-	-	-	-	-	-	-	PULL ROPE
E6	P 102	METER/MAN DISC	PEDESTAL	1	2"	GRS-PVC	4	#2	#6	-	-	-	-	
E6	P 103	PEDESTAL	GEN TERMINATION BOX	1	2"	GRS-PVC	4	#2	#4	-	-	-	-	
E6	P 111 A	PEDESTAL	PUMP CABLE BOX	1	1"	GRS-PVC	3	#10	#10	-	-	-	-	
E6	P 111 B	PUMP CABLE BOX	PMP111	1	1"	GRS-PVC	-	-	-	-	-	-	-	MNFR CBL
E6	P 112 A	PEDESTAL	PUMP CABLE BOX	1	1"	GRS-PVC	3	#10	#10	-	-	-	-	
E6	P 112 B	PUMP CABLE BOX	PMP112	1	1"	GRS-PVC	-	-	-	-	-	-	-	MNFR CBL

- NOTES:
- UG CONDUITS PER DWG E9, DETAIL "C". HAND DIG TRENCH FOR ALL UG CONDUITS IN EXISTING AREA. EXISTING UNDERGROUND SERVICES ARE NOT SHOWN & SHALL BE PROTECTED FROM DAMAGE.
 - EXPOSED CONDUITS TRANSITIONS PER DWG E9, DETAIL "D".
 - NOT ALL EXISTING CONDUITS SHOWN. CONDUITS SHOWN ARE THOSE ASSOCIATED WITH NEW WORK.
 - ALL JUNCTION BOXES AND OTHER ELECTRICAL DEVICES IN CLASS 1, DIV 1/2 AREA SHALL BE EXPLOSION PROOF & WEATHERPROOF RATED.
 - PLACE "EYS" TYPE EXPLOSION PROOF BARRIER AT TRANSITION AND COMPLYING WITH ALL CLASS 1, DIV 1/2 REQUIREMENTS.
 - UTILITY SECONDARY CONDUITS, GROUNDING SYSTEM & REMOVABLE BOLLARDS TO BE PROVIDED & INSTALLED BY CONTRACTOR PER UTILITY ENGINEERED DRAWINGS AND DWG E9, DETAIL "A".
 - UTILITY METER/MAIN DISCONNECT PANEL PER DWG E6, DETAIL "C".
 - PEDESTAL HOUSEKEEPING CONCRETE PAD PER DWG E6, DETAIL "A".
 - PUMP CABLE ISOLATION PER DWG E9, DETAIL "B".
 - PUMP CABLE BOX PER DWG E6, DETAIL "H".
 - GROUND BONDS TO CONSIST OF #2/0 BARE COPPER WITH 30" MINIMUM COVER. INSTALL GROUND ROD HANDHOLE PER DWG E6, DETAIL "D" & GROUND CABLE CONNECTION PER DWG E6, DETAIL "E".

ANCHOR PUMP STATION ELECTRICAL SITE PLAN ①②③④⑤⑥

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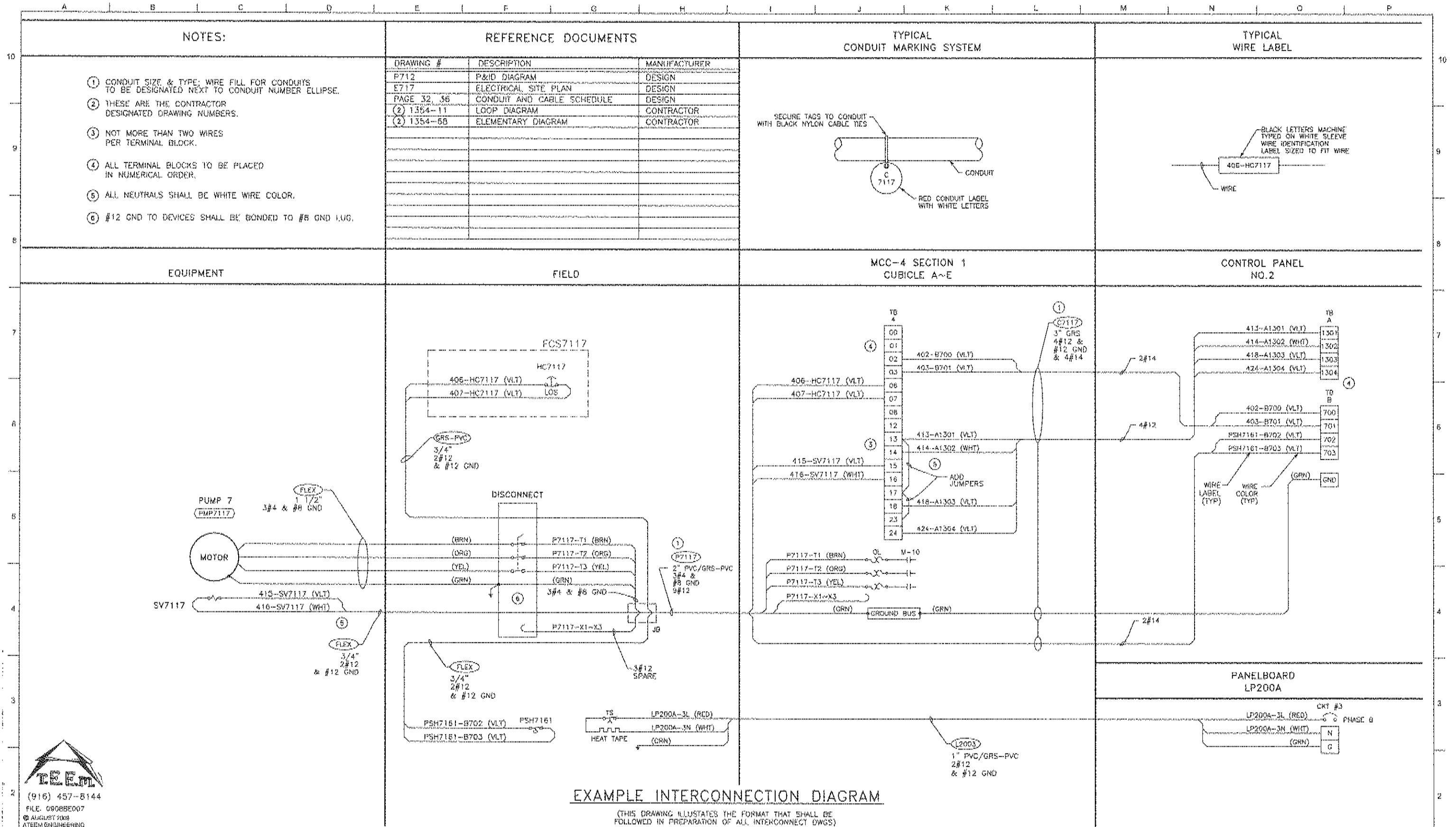
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CITY OF SAUSALITO PRIORITY 1 SEWER
 REPLACEMENT PROJECT 1B
 ANCHOR PUMP STATION
 ELECTRICAL SITE PLAN

JOB NUMBER 454-02-09-02
DRAWING NUMBER E6
SHEET NUMBER 19 OF 24
REVISION

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No.	ZONE	REVISIONS	BY DATE

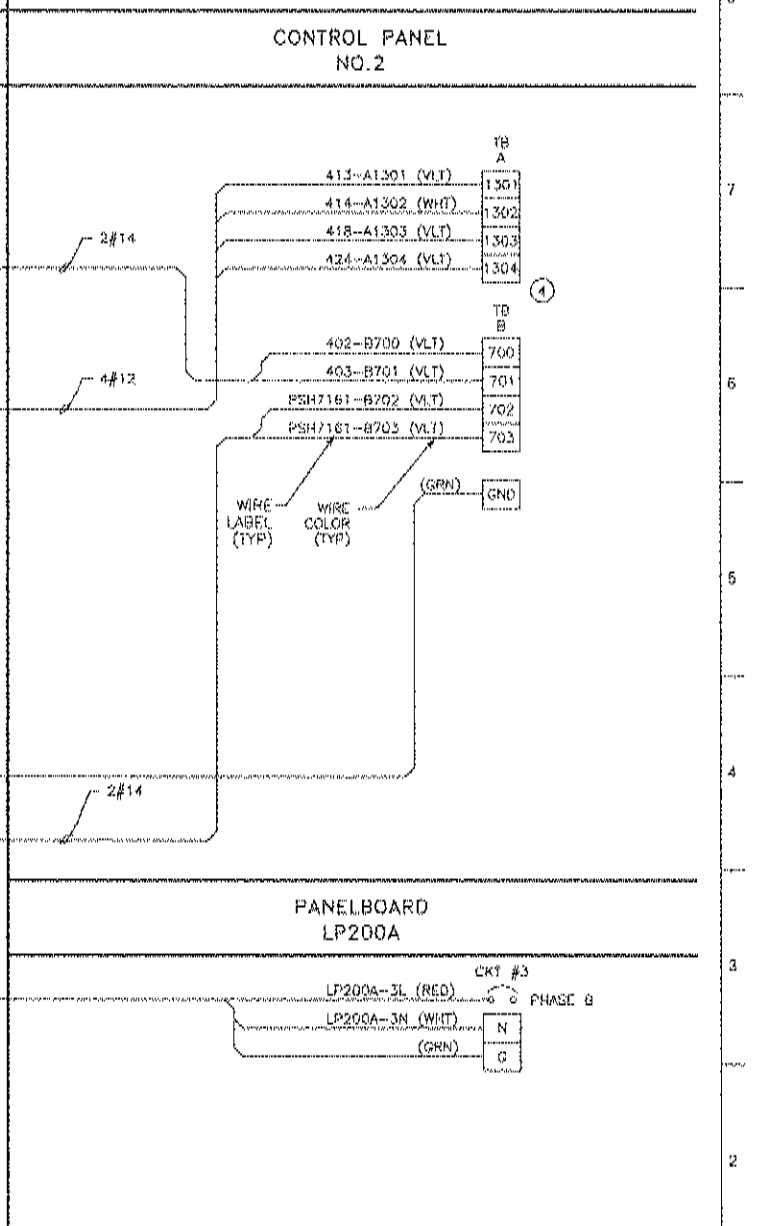
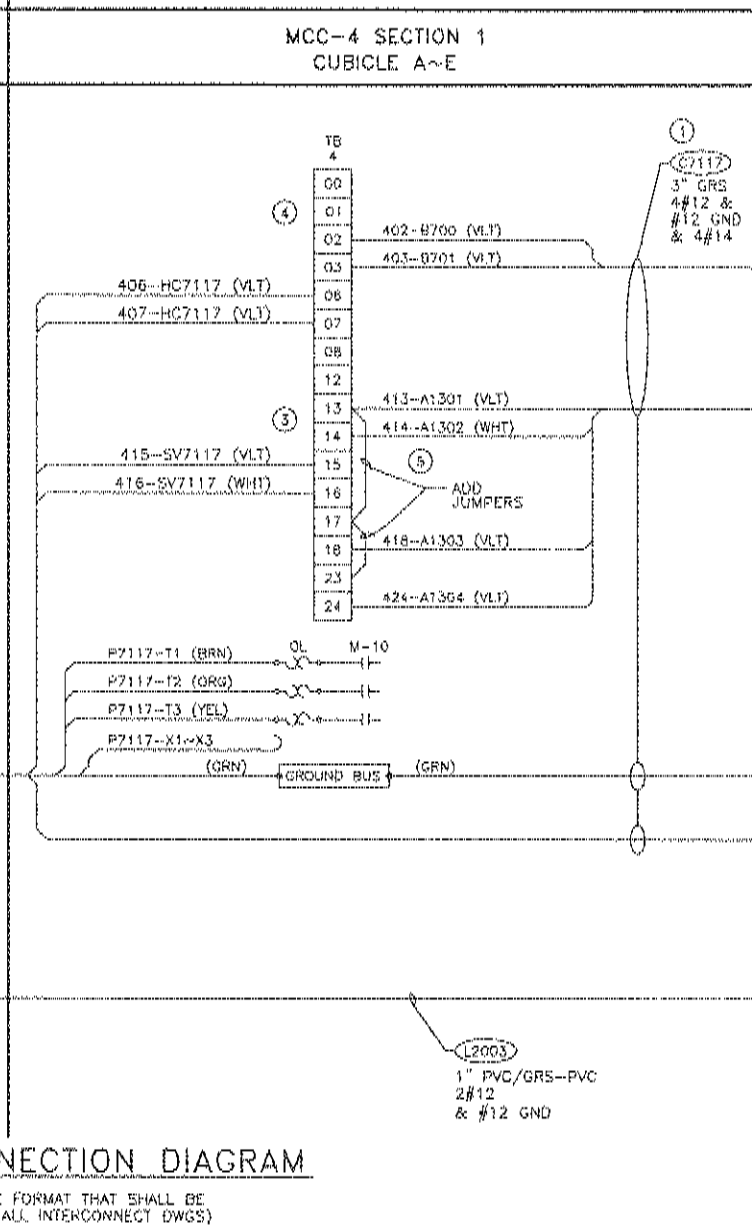
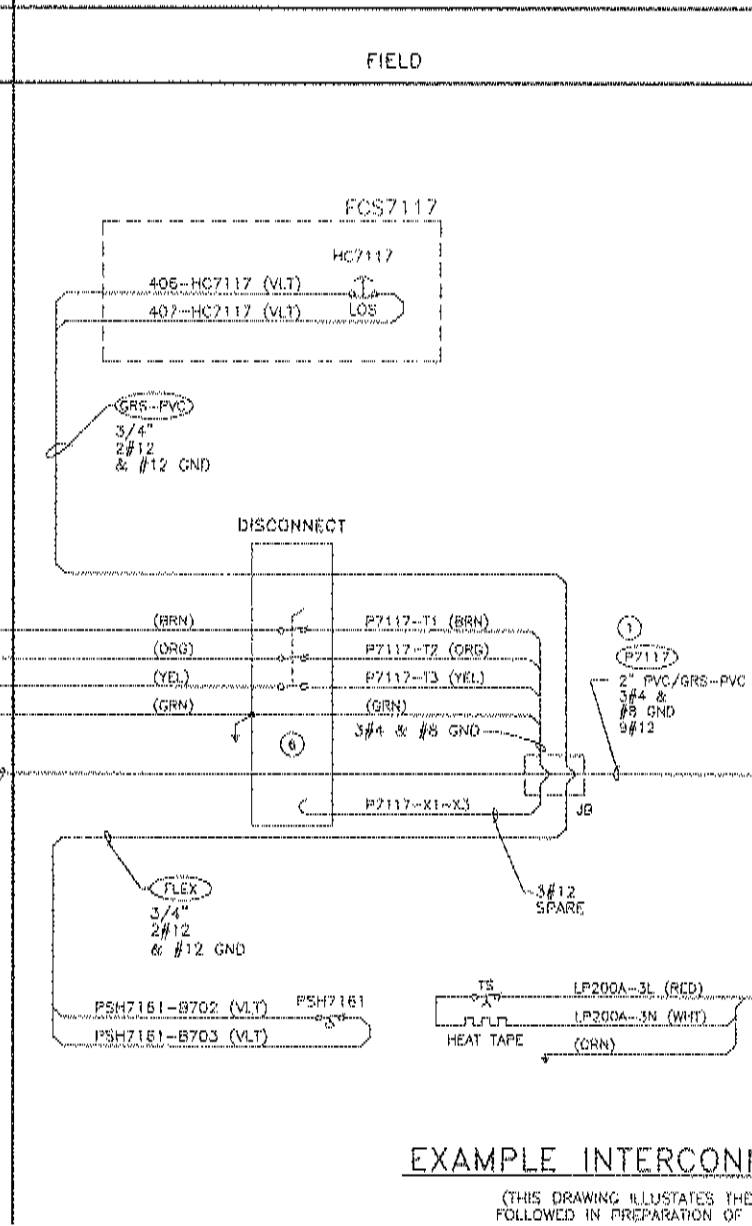
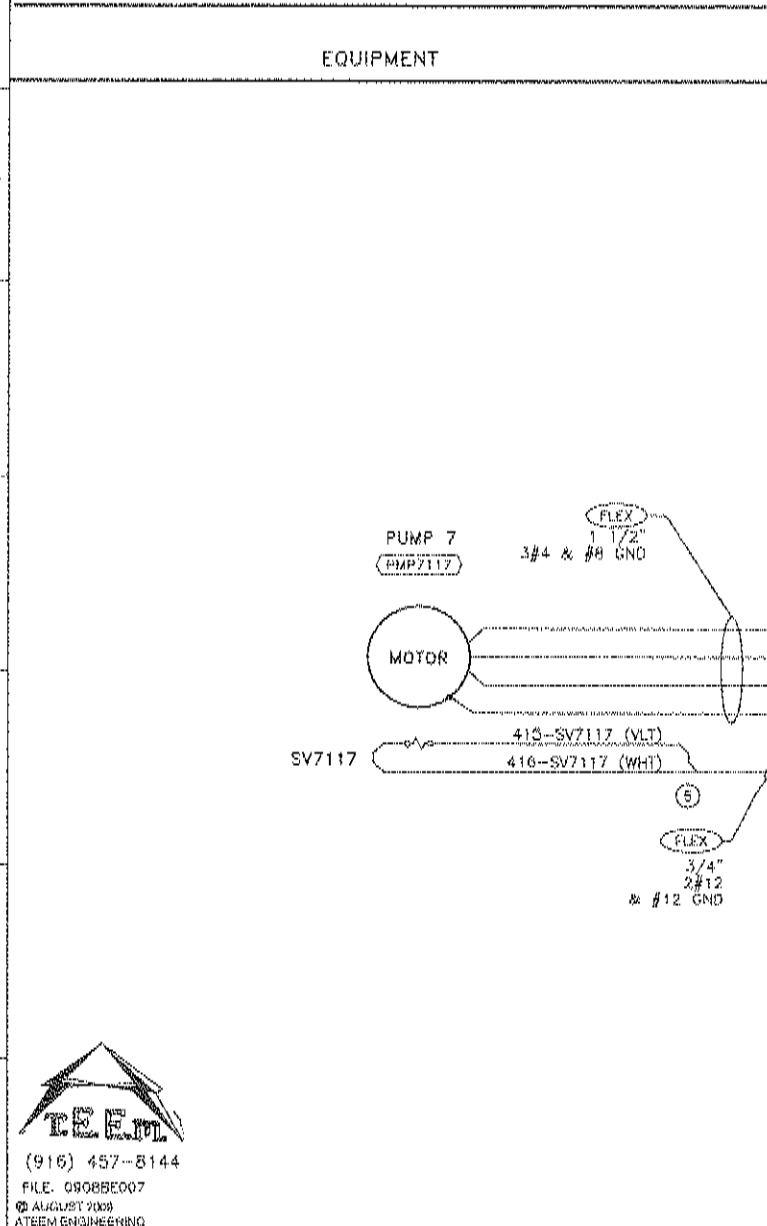
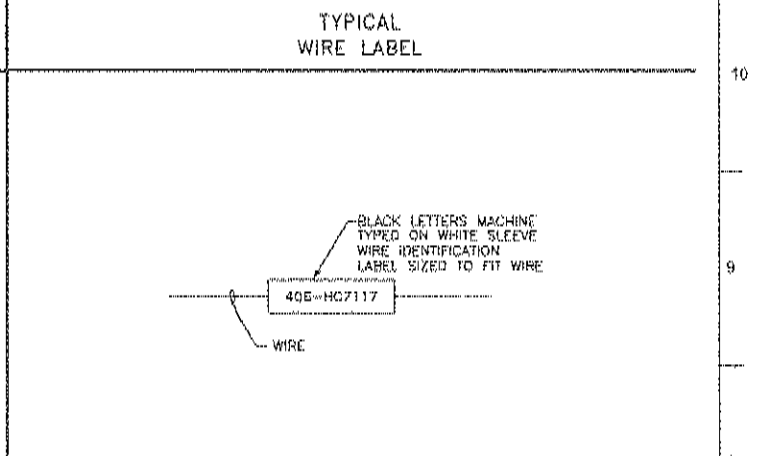
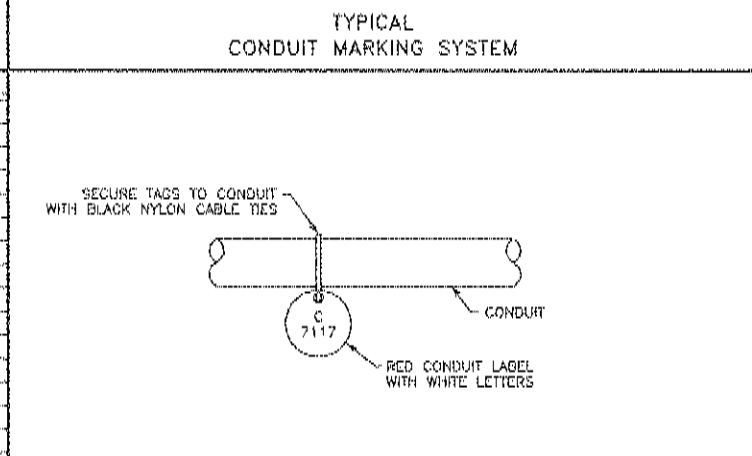


EXAMPLE INTERCONNECTION DIAGRAM

(THIS DRAWING ILLUSTRATES THE FORMAT THAT SHALL BE FOLLOWED IN PREPARATION OF ALL INTERCONNECT DWGS)

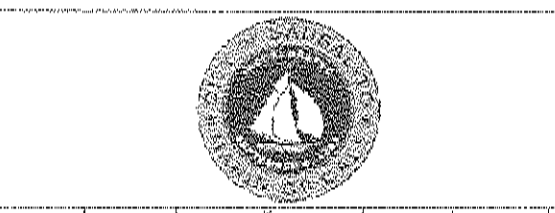
- NOTES:**
- CONDUIT SIZE & TYPE; WIRE FILL FOR CONDUITS TO BE DESIGNATED NEXT TO CONDUIT NUMBER ELLIPSE.
 - THESE ARE THE CONTRACTOR DESIGNATED DRAWING NUMBERS.
 - NOT MORE THAN TWO WIRES PER TERMINAL BLOCK.
 - ALL TERMINAL BLOCKS TO BE PLACED IN NUMERICAL ORDER.
 - ALL NEUTRALS SHALL BE WHITE WIRE COLOR.
 - #12 GND TO DEVICES SHALL BE BONDED TO #8 GND I.U.G.

DRAWING #	DESCRIPTION	MANUFACTURER
P712	P&ID DIAGRAM	DESIGN
E717	ELECTRICAL SITE PLAN	DESIGN
PAGE 32, 36	CONDUIT AND CABLE SCHEDULE	DESIGN
(2) 1354-11	LOOP DIAGRAM	CONTRACTOR
(2) 1354-68	ELEMENTARY DIAGRAM	CONTRACTOR



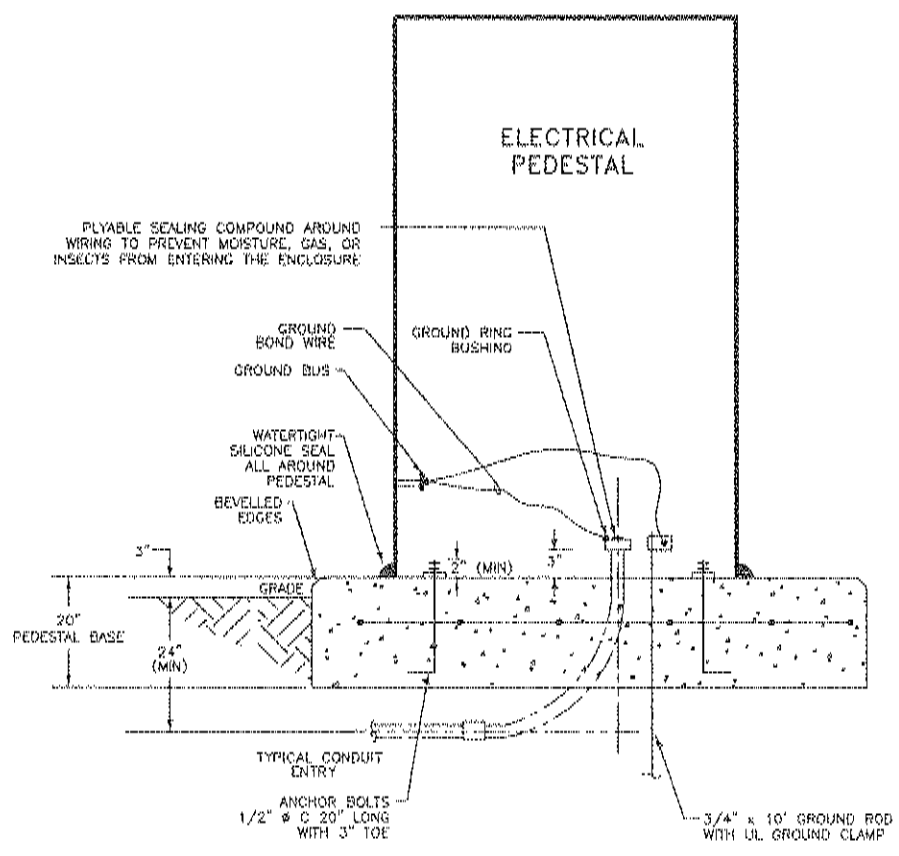
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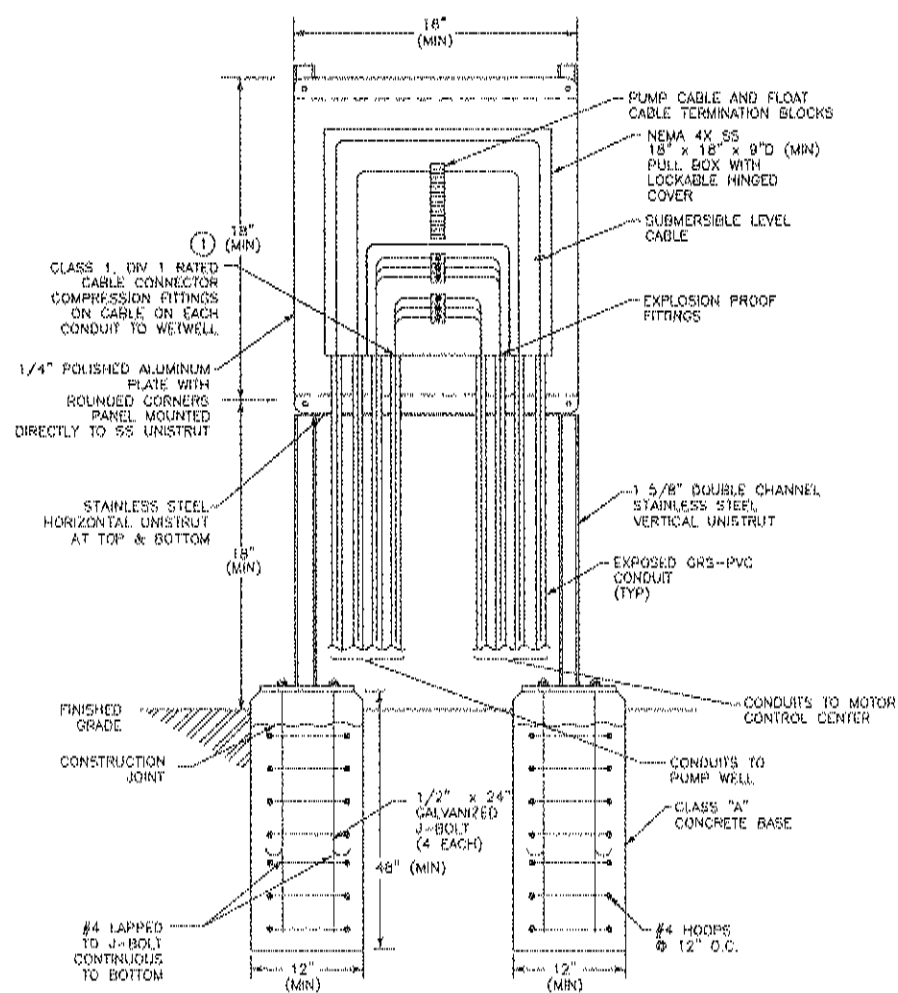
CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
EXAMPLE INTERCONNECT DIAGRAM

JOB NUMBER 454-02-09-02
DRAWING NUMBER E7
SHEET NUMBER 20 OF 24
REVISION



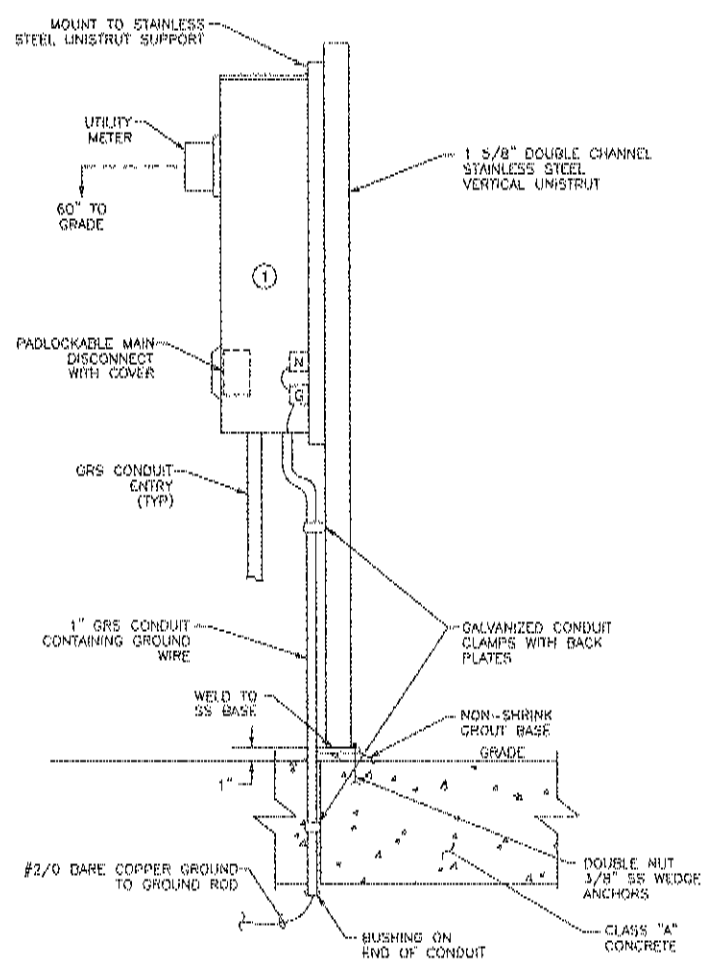
PEDESTAL INSTALLATION
NOT TO SCALE
DETAIL

NOTE: ① INSTALL SS ANCHORS SIZED FOR SEISMIC ZONE 4.



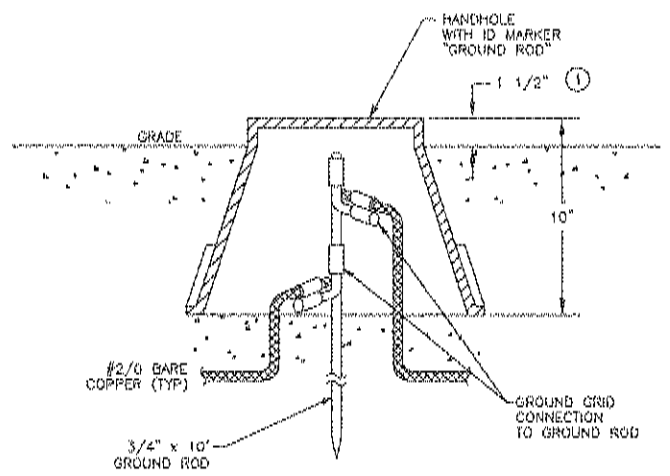
PUMP CABLE BOX
NOT TO SCALE
DETAIL

NOTES: ① HUBBELL CORROSION-RESISTANT STRAIGHT NYLON CONNECTORS, MODEL SHC SERIES.



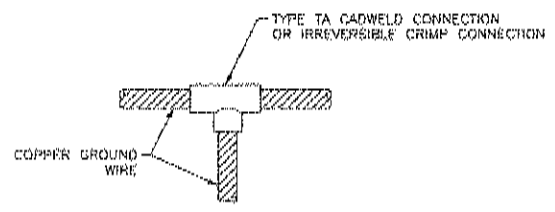
METER/MAIN DISCONNECT
NOT TO SCALE
DETAIL

NOTES: ① PAINT ENCLOSURE, SUPPORT & ALL CONDUITS TO MATCH COLOR OF PANEL.



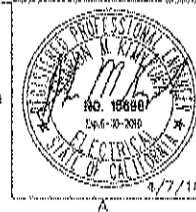
HANDHOLE GROUNDING
NOT TO SCALE
DETAIL

NOTES: ① FLUSH IN PAVED AREAS.



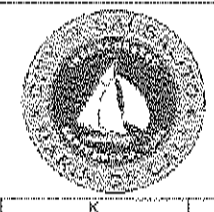
GROUND CABLE CONNECTION
NOT TO SCALE
DETAIL

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	DESIGNED BY: X.L.I.						
	PRD. MGR.: P.D.F.						

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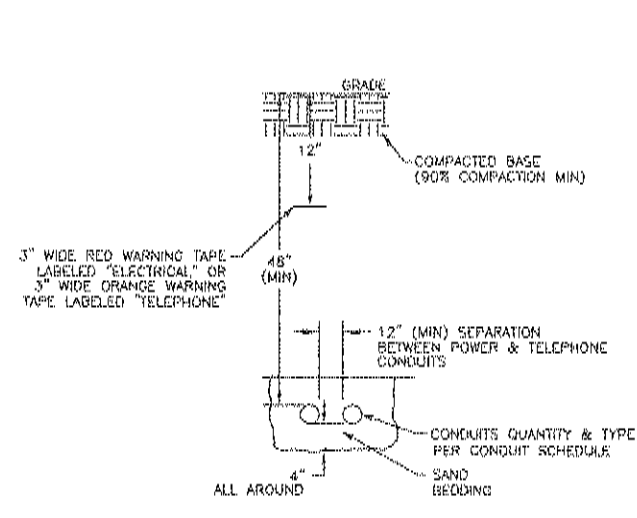
CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
TYPICAL ELECTRICAL DETAILS NO.1

JOB NUMBER 454-02-09-02
DRAWING NUMBER E8
SHEET NUMBER 21 OF 24
REVISION

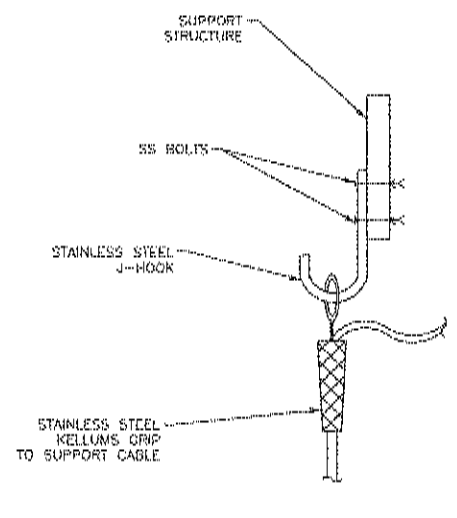
A B C D E F G H I J K L M N O P

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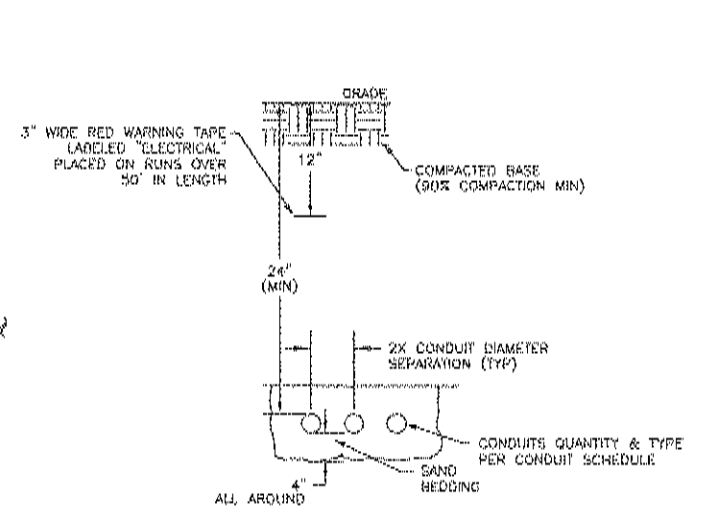
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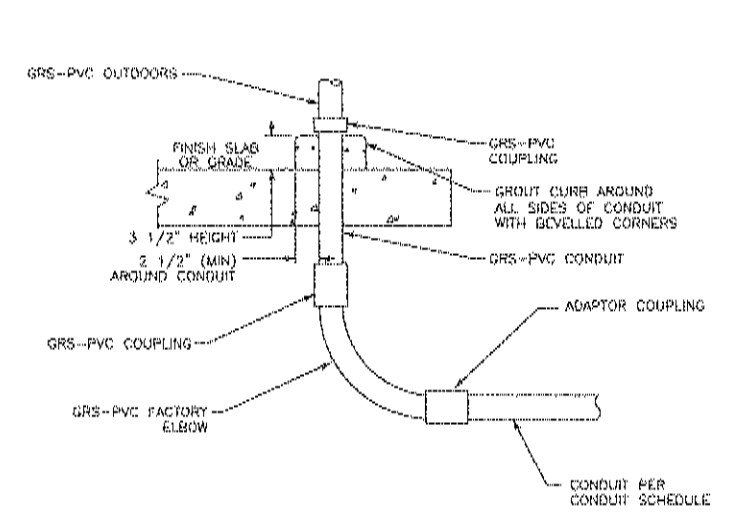
UTILITY CONDUITS
NOT TO SCALE
DETAIL (A) E9



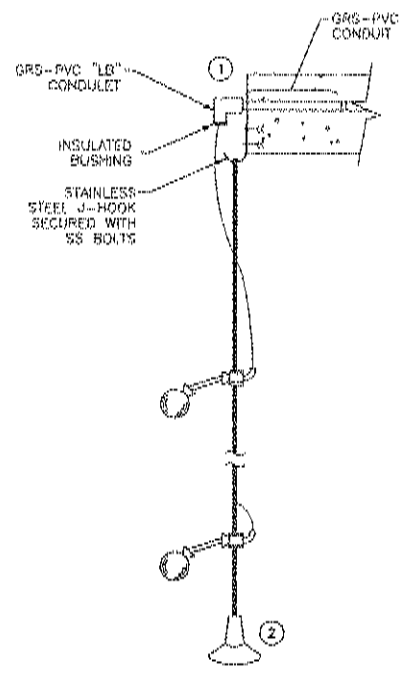
CABLE SUPPORT
NOT TO SCALE
DETAIL (B) E9



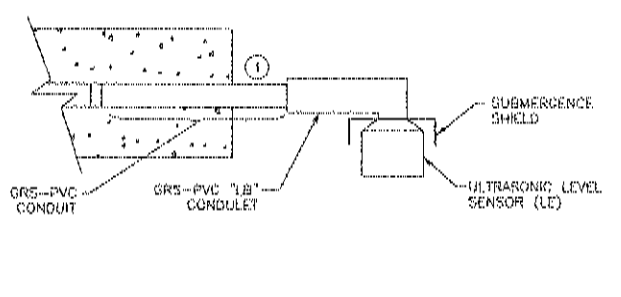
CONDUITS INSTALLATION
NOT TO SCALE
DETAIL (C) E9



EXPOSED CONDUIT TRANSITION
NOT TO SCALE
DETAIL (D) E9

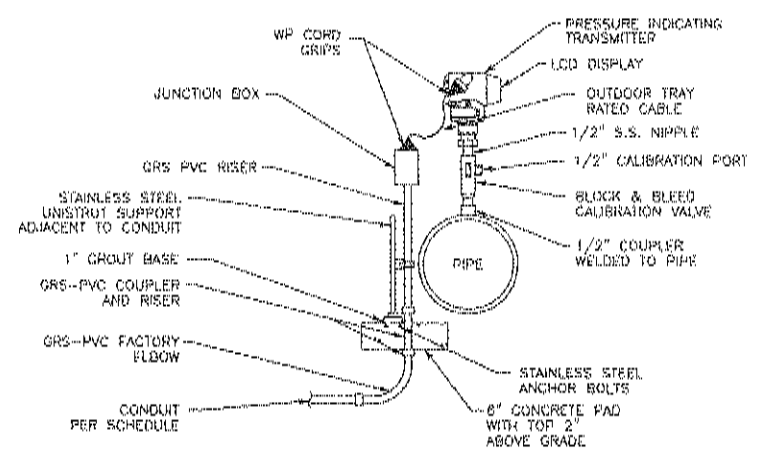


FLOAT SWITCH CABLE
NOT TO SCALE
DETAIL (E) E9

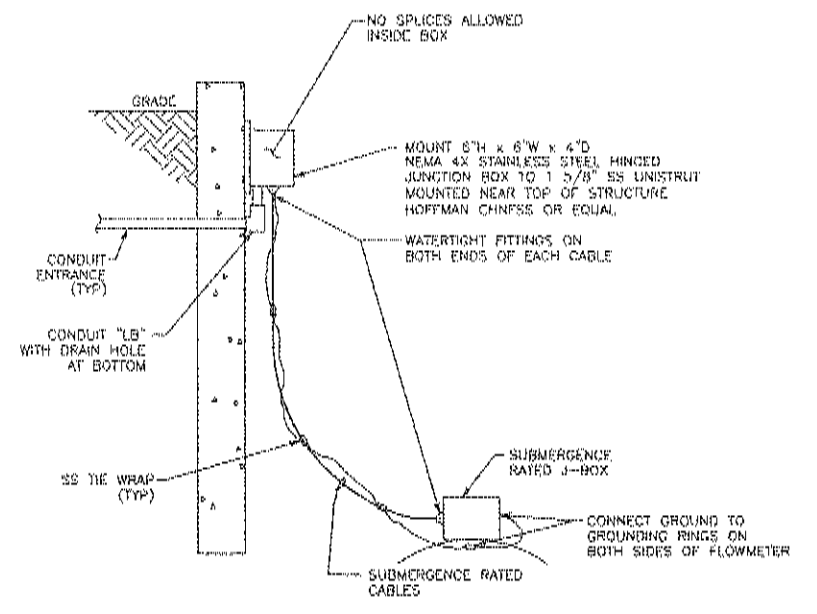


ULTRASONIC SENSOR
NOT TO SCALE
DETAIL (F) E9

NOTES: (1) CONDUIT TO ENTER THROUGH SIDE OF WETWELL, ACCESS OPENNING.



PRESSURE TRANSMITTER
NOT TO SCALE
DETAIL (G) E9



BELOW GRADE FLOWMETER INSTALLATION
NOT TO SCALE
DETAIL (H) E9

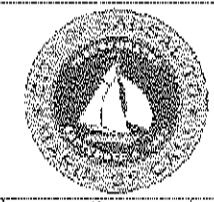
NOTE: (1) CONDUIT TO ENTER THROUGH SIDE OF WETWELL ACCESS OPENNING.

(2) LEVEL SWITCHES TO BE SUSPENDED WITH STAINLESS STEEL CABLE/WEIGHT MOUNTING KIT, CONSOLIDATED ELECTRIC OR APPROVED EQUAL.



SUBMITTED: _____ DATE: _____ APPROVED: _____ DATE: _____	THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY	SCALE: NONE DRAWN BY: KADS DESIGNED BY: X.LI PROJ. MGR.: P.D.F.	<table border="1"> <tr> <th>No.</th> <th>ZONE</th> <th>REVISIONS</th> <th>BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	ZONE	REVISIONS	BY	DATE					
No.	ZONE	REVISIONS	BY	DATE									

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Davis, California 95618
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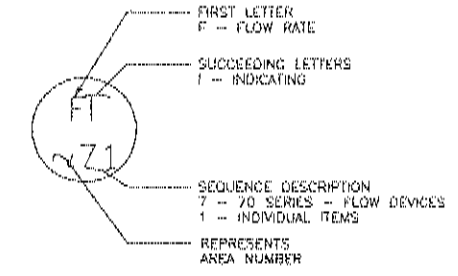
CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
TYPICAL ELECTRICAL DETAILS NO.2

JOB NUMBER 454-02-09-02
DRAWING NUMBER E9
SHEET NUMBER 22 of 24
REVISION

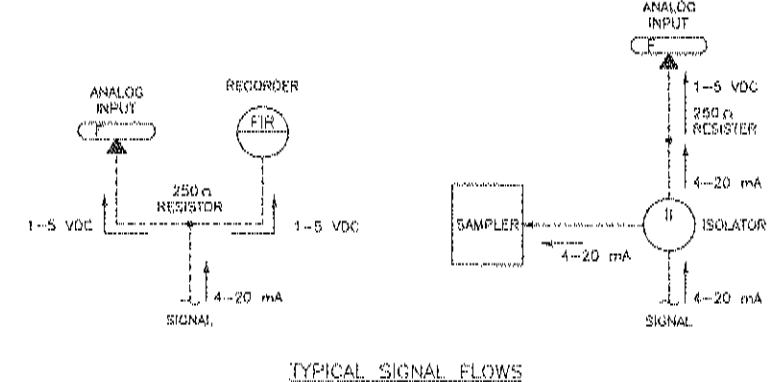
A B C D E F G H I J K L M N O P

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
P & I DIAGRAM SYMBOLS			
	FIELD MOUNTED INSTRUMENT		VALVE (GENERAL)
	FACE MOUNTED INSTRUMENT ON LOCAL PANEL, OPERATOR ACCESSIBLE		GATE (GENERAL)
	FACE MOUNTED INSTRUMENT ON FIELD PANEL, OPERATOR ACCESSIBLE		CHECK VALVE (GENERAL)
	INSTRUMENT MOUNTED IN LOCAL PANEL, OPERATOR INACCESSIBLE		PUMP (GENERAL)
	INSTRUMENT MOUNTED IN FIELD PANEL, OPERATOR INACCESSIBLE		BLOWER (GENERAL)
	OPERATION PERFORMED WITH LOGIC OR HARDWIRED DEVICES		VALVE/DATE NUMBER
	DWG # - REFERENCE ELEMENTARY DWG. #		EQUIPMENT NUMBER
	PLC OR COMPUTER FUNCTION PERFORMING OPERATION WITH VISUAL INDICATION		ELECTRIC SIGNAL
	PLC OR COMPUTER FUNCTION PERFORMING OPERATION WITH VISUAL ALARM INDICATION		LOGIC OR DATA SIGNAL
	PLC OR COMPUTER PERFORMING INTERNAL OPERATION		PNEUMATIC SIGNAL
	PLC OR COMPUTER PERFORMING INTERNAL ALARM OPERATION		CAPILLARY TUBING (FILLED SYSTEM)
	PROPORTIONAL, INTEGRAL, AND DIFFERENTIAL PARAMETERS		HYDRAULIC SIGNAL
	RATIO AND BIAS PARAMETERS		SONIC OR ELECTROMAGNETIC SIGNAL
	AUDIBLE ALARM (BUZZER OR HORN)		ELECTRIC SUPPLY FROM PANELBOARD CKT
	ANNUNCIATOR WINDOW R - ROW # C - COLUMN #		SERVICE AIR
	LAMP INDICATION (STATUS OR ALARM)		INSTRUMENT AIR
	DISCRETE INPUT		
	DISCRETE OUTPUT		
	ANALOG INPUT		
	ANALOG OUTPUT		
	JUMP TAG FROM ONE AREA TO ANOTHER AREA OF DRAWING		
	"a" TAG CONNECT POINT ON EACH DRAWING		
	CONTINUED ON DWG P-X		
	AUTODIALER PRIORITY # PC BASED SOFTWARE		

INSTRUMENT IDENTIFICATION LETTERS				
FIRST - LETTER MEASURED OF INITIATING VARIABLE	MODIFIER	SUCCEEDING - LETTER READOUT PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A ANALYSIS		ALARM		
B BURNER		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C COMBUSTION		CHOICE	CHOICE	CHOICE
D CONDUCTIVITY		CONTROLLER	CONTROLLER	
E DENSITY	DIFFERENTIAL			
F VOLTAGE		SENSOR, PRIMARY ELEMENT		
G FLOW RATE	RATIO (FRACTION)			
H GENERAL		GLASS VIEWING DEVICE		
I HAND				HIGH, OPENED
J CURRENT (ELEC.)		INDICATING, INDICATOR		
K POWER	SCAN			
L TIME	TIME RATE OF CHANGE		CONTROL STATION	
M TIME SCHEDULE				
N LEVEL		LIGHT		LOW, CLOSED
O MOISTURE	MOMENTARY			MIDDLE
P STATUS		STATUS	USER'S CHOICE	USER'S CHOICE
Q OPERATOR		DRIFTER		
R PRESSURE, VACUUM		RESTRICTION POINT (TEST) CONNECTION		
S QUANTITY	INTERGRATE, TOTALIZE			
T RESET		RECORD		
U SPEED, FREQUENCY	SAFETY		SWITCH	
V TEMPERATURE				TEST
W MULTIVARIABLE		MULTIFUNCTION	TRANSMITTER	MULTIFUNCTION
X VIBRATION, MECH. ANALYSIS			MULTIFUNCTION	MULTIFUNCTION
Y WEIGHT, FORCE		WELL	VALVE, DAMPER	
Z SWITCH	X AXIS	UNCLASSIFIED	LOUVER	
	Y AXIS			
			UNCLASSIFIED RELAY, COMPUTER, CONVERTOR	UNCLASSIFIED
			DRIVER, ACTUATOR	
			UNCLASSIFIED FINAL CONTROL ELEMENT	

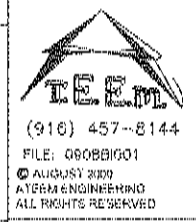


P&ID INSTRUMENT IDENTIFICATION EXAMPLE



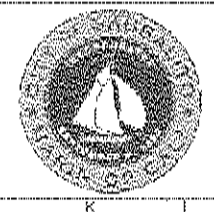
TYPICAL SIGNAL FLOWS

NUMBERING SEQUENCE	
SEQUENCE NUMBER	DESCRIPTION
00	COMMON ALARM
01-09	INDIVIDUAL ITEMS
10	MECHANICAL
20	MECHANICAL
30	MECHANICAL
40	MECHANICAL
50	LEVEL DEVICES
60	PRESSURE DEVICES
70	FLOW DEVICES
80	ANALYTICAL DEVICES
90	SAFETY & SECURITY DEVICES



SUBMITTED: _____	THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY
DATE: _____	
APPROVED: _____	SCALE: NONE
DATE: _____	DRAWN BY: K.A.D.S.
	DESIGNED BY: X.L.J.
	PROJ. MGR: P.D.F.
	No. 20NF
	REVISIONS
	BY DATE

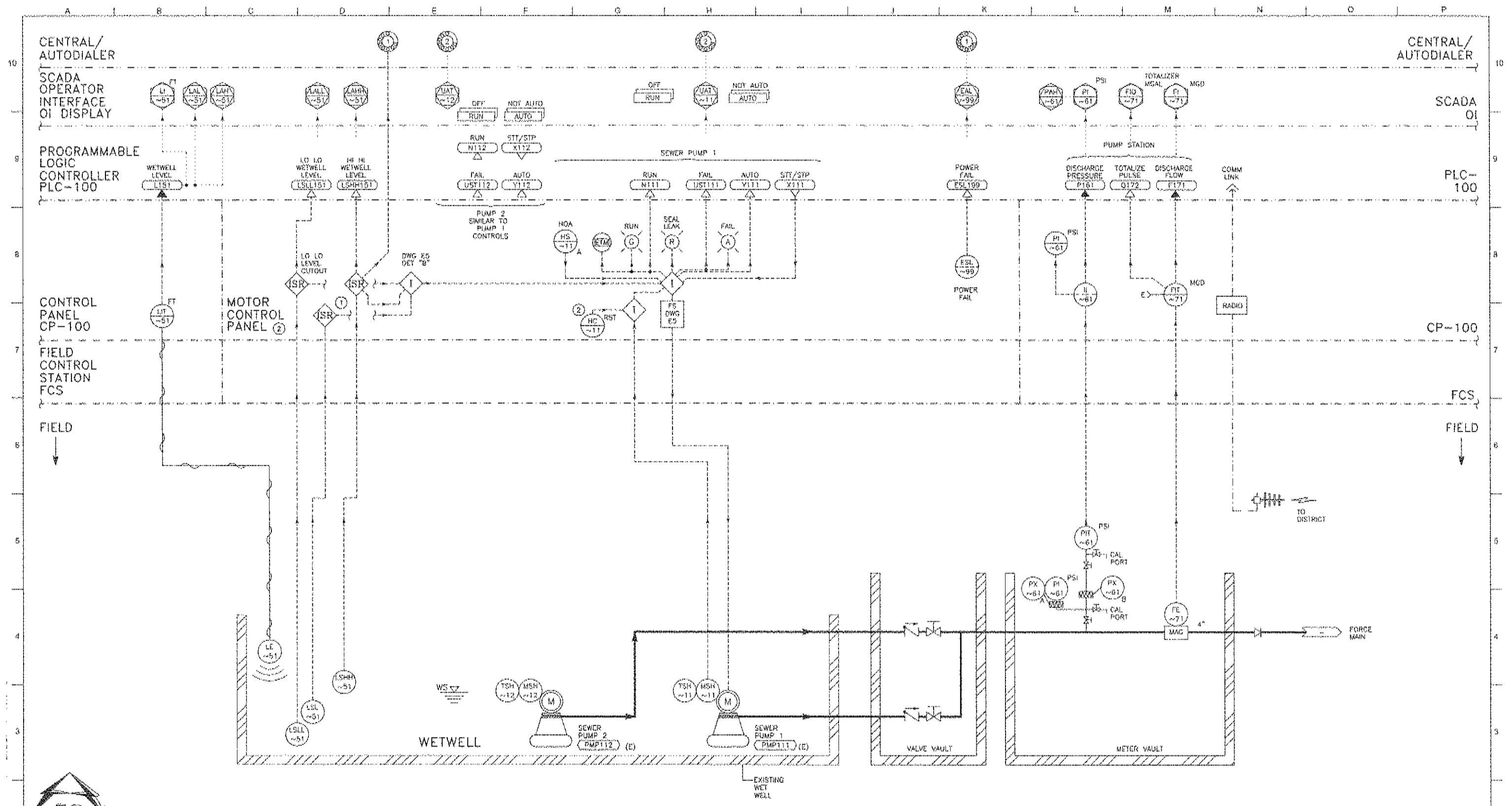
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CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B

INSTRUMENTATION SYMBOLS & ABBREVIATIONS

JOB NUMBER 454-02-09-02
DRAWING NUMBER 11
SHEET NUMBER 23 of 24
REVISION



ANCHOR PUMP STATION

NOTES: ① ISB=> INTRINSIC SAFE BARRIER. ISR=> INTRINSIC SAFE RELAY. ② EXISTING MOISTURE/OVERTEMP RELAYS TO BE INSTALLED IN MCP IF AVAILABLE.

AREA PREFIX 1~

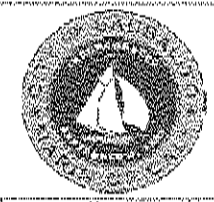


(916) 457-8144
 FILE: 0908B1002
 AUGUST 2009
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SUBMITTED:	DATE:	THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY	SCALE: NONE	DRAWN BY: KARS	DESIGNED BY: X.L.J.	PROJ. MGR:	No.	ZONE	REVISIONS	BY	DATE
APPROVED:	DATE:										

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CITY OF SAUSALITO PRIORITY 1 SEWER REPLACEMENT PROJECT 1B
 ANCHOR PUMP STATION P&ID

JOB NUMBER	454-02-09-02
DRAWING NUMBER	12
SHEET NUMBER	24 of 24
REVISION	