

PLOT TIME: 10-APR-1995 11:02 H:\2121\DWG\PLMB\21WNP512.dwg

GENERAL NOTES

1. VERIFY DEPTHS, SIZES, LOCATIONS, ETC., OF EXISTING UTILITIES IN THE FIELD BEFORE STARTING WORK.
2. ALL WORK AND MATERIALS SHALL CONFORM TO THE 1991 EDITION OF THE UNIFORM PLUMBING AND UNIFORM BUILDING CODES, ORDINANCES, AND REGULATIONS: STATE HEALTH AND SAFETY ORDERS, STATE FIRE MARSHAL, LOCAL FIRE DEPARTMENT AND HEALTH DEPARTMENT AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
3. COORDINATE INSTALLATION OF PLUMBING WORK SO AS TO AVOID UNNECESSARY JOB DELAYS OR INTERFERENCES WITH OTHER TRADES.
4. OBTAIN ALL FIELD APPROVALS ON PLUMBING WORK FROM REGULATING AGENCIES WHERE REQUIRED.
5. ALL VALVES CONCEALED IN CEILING OR WALLS SHALL BE PROVIDED WITH ACCESS PANELS.
6. ALL VENTS THROUGH ROOF SHALL BE 2'-0" MINIMUM FROM EDGE OF ROOF AND 10'-0" FROM SUPPLY AIR INTAKE.
7. ALL OPENINGS FOR PIPING THROUGH FIRE-RATED ENCLOSURES SHALL BE CAULKED AS REQUIRED BY CODE TO MAINTAIN FIRE RATING.
8. WATER HEATERS SHALL BE STATE CERTIFIED, STAMPED AND COMPLY WITH ASHRAE STANDARD 90-75.
9. HOT WATER PIPE INSULATION SHALL COMPLY WITH SECTION T20-1521 (C-2) OF THE STATE OF CALIFORNIA ENERGY STANDARDS OF THE SPECIFICATIONS.
10. FAUCETS AND PLUMBING FIXTURES SHALL BE OF THE WATER CONSERVATION TYPE AND COMPLY WITH SECTION 160 OF THE STATE APPLIANCE ENERGY STANDARDS.
11. PROVIDE HOT WATER SYSTEM PIPE INSULATION FOR SERVICE HOT WATER SUPPLY IN ACCORDANCE WITH TABLE 1-G OF THE ENERGY CONSERVATION REGULATION.
12. PROVIDE CERTIFIED PLUMBING FIXTURES. LAVATORY AND SINK FAUCETS SHALL BE CERTIFIED BY MANUFACTURER TO THE CALIFORNIA ENERGY COMMISSION AS COMPLYING WITH APPLIANCE EFFICIENCY REGULATIONS. (FITTINGS USED FOR SAFETY PURPOSES ARE EXEMPT).
13. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT ARE TO BE RUN AT HIGHEST POSSIBLE ELEVATION AND NOT LESS THAN 6" ABOVE FINISHED FLOOR TO ALLOW CLEARANCE FOR CLEANING. PIPING IS TO BE CONCEALED WHEREVER POSSIBLE.
14. CONTRACTOR SHALL PROVIDE ALL PIPING AND MATERIAL INCLUDING VALVES, PRESSURE REGULATORS, TRAPS, STRAINERS, ETC. FROM ROUGH-IN LOCATION TO EQUIPMENT AND MAKE FINAL CONNECTION. SUPPLY LINES TO EACH INDIVIDUAL PIECE OF EQUIPMENT SHALL BE PROVIDED WITH PERMANENT NAME TAGS IDENTIFYING SAME.
15. ALL WASTE PIPING ARE RUN AT 1/4 " (2%) MINIMUM SLOPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
16. ALL PLUMBING FIXTURES SERVED BY BOTH HOT AND COLD WATER ARE SIZED AT 75% ONLY OF THEIR FIXTURE UNIT LOAD DEMAND, UNLESS OTHERWISE INDICATED ON DRAWINGS.
17. ALL PLUMBING FIXTURES SERVED BY EITHER HOT OR COLD WATER ONLY ARE SIZED AT 100% OF THEIR FIXTURE UNIT LOAD DEMAND, UNLESS OTHERWISE INDICATED ON DRAWINGS.
18. ALL COLD WATER PIPING SYSTEM SIZED BY THE FLUSH VALVE CURVE CHART UNLESS OTHERWISE INDICATED ON DRAWINGS. BRANCHES WITHOUT FLUSH VALVES FIXTURES ARE SIZED PER FLUSH TANK CURVE CHART.
19. ALL HOT WATER PIPING SYSTEM SIZED BY THE FLUSH TANK CURVE CHART.
20. CONTRACTOR TO CHECK DRAWINGS FOR FLOOR SINKS GRATE REQUIREMENTS.
21. ALL AIR OUTLET CONNECTIONS AND HOSE BIBBS LOCATED INSIDE SERVICE PITS SHALL BE MOUNTED SIDEWAYS ALONG PIT WALLS.

ABBREVIATIONS

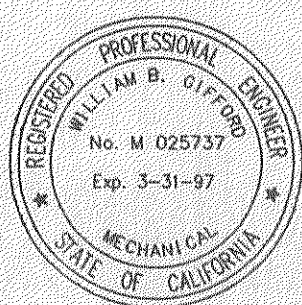
ABV	ABOVE	ELECT	ELECTRIC	LAB	LABORATORY	R.O.	REVERSE OSMOSIS
AD	AREA DRAIN	EQ	EQUAL	LAV	LAVATORY	RP B.F.P.	REDUCED PRESSURE BACKFLOW PREVENTER
AFG	ABOVE FINISHED GRADE	EQUIP	EQUIPMENT	LB(S)	POUND(S)	RPM	REVOLUTION PER MINUTE
AFF	ABOVE FINISHED FLOOR	EXIST	EXISTING	LOC	LOCATION	S	SOUTH
AO	AIR OUTLET	(E)	EXISTING	LOS	LUBE OIL SUPPLY	SCHED	SCHEDULE
AP	ACCESS PANEL	EXP	EXPANSION, EXPOSED	LP	LOW PRESSURE	SD	STORM DRAIN
ARCH	ARCHITECTURAL	EXT	EXTENSION, EXTERIOR, EXTERNAL	MAINT	MAINTENANCE	SE	SEWAGE EJECTOR
ASSY	ASSEMBLY	EWC	ELECTRIC WATER COOLER	MAN	MANUAL	SED	SEWAGE EJECTOR DISCHARGE
AUTO	AUTOMATIC	EWB	ELECTRIC WATER HEATER	MAX	MAXIMUM	SECT	SECTION
&	AND	FA	FIRE ALARM	MC	MECHANICAL COUPLING	SHT	SHEET
ABV	ABOVE	FC	FLEXIBLE CONNECTION	M	METER	SIM	SIMILAR
@	AT	FCO	FLOOR CLEANOUT	MEZZ	MEZZANINE	SM	SHEET METAL
ABV. GRD.	ABOVE GRADE	FD	FLOOR DRAIN	MECH	MECHANICAL	SMACNA	SHEET METAL AND AIR CONDITIONING
AW	ACID WASTE	F.D.C.	FIRE DEPARTMENT CONNECTION	MED	MEDIUM		NATIONAL ASSOCIATION INC.
B.F.G.	BELOW FINISHED GRADE	F.F.E.	FINISHED FLOOR ELEVATION	MET	METAL	S.O.C.	SHUT OFF COCK
BEL	BELOW	F.G.E.	FINISHED GRADE ELEVATION	MFR(S)	MANUFACTURER(S)	SOV	SHUT-OFF VALVE
B.F.P.	BACKFLOW PREVENTER	F.H.C.	FIRE HOSE CABINET	MH	MANHOLE	SPEC	SPECIFICATION
BOP	BOTTOM OF PIPE	FIN	FINISH	MIN	MINIMUM	SPKR	SPRINKLER
BK	BACK	FLR	FLOOR	MISC	MISCELLANEOUS	SQ	SQUARE
BLDG	BUILDING	FLEX	FLEXIBLE	MCC	MOTOR CONTROL CENTER	SQM	SQUARE METER
C	CENTERLINE	FLG	FLANGE, FLASHING	MTD	MOUNTED	SS	SANITARY SEWER
CI	CAST IRON	FOS	FUEL OIL SUPPLY	MTL	MATERIAL	STA	STATION
C.F.H.	CUBIC FEET PER HOUR	FOR	FUEL OIL RETURN	N	NORTH	STD	STANDARD
CLG	CEILING	FS	FLOOR SINK	NA	NOT APPLICABLE	STL	STEEL
C.O.	CLEANOUT	FT	FOOT	NC	NORMALLY CLOSED	STOR	STORAGE
COMB	COMBINATION	FTG	FOOTING	N.I.C.	NOT IN CONTRACT	STRUCT	STRUCTURAL
CONN	CONNECTION	F.U.	FIXTURE UNITS	N.O.	NORMALLY OPEN	SUSP	SUSPENDED
COMP	COMPARTMENT	FUT	FUTURE	NO.(S), #	NUMBER(S)	SW	SWITCH, SOUTHWEST
CONC	CONCRETE	FW	FIRE WATER	NOM	NOMINAL	SYM	SYMMETRICAL
CONN	CONNECTION	GA	GAUGE	NPT	NATIONAL PIPE THREAD	SP	SUMP PUMP
CONST	CONSTRUCTION	GAL	GALLON	NTS	NOT TO SCALE	TC	TOP OF CURVE
COTG	CLEANOUT TO GRADE	GALV	GALVANIZED	NW	NORTHWEST	TEL	TELEPHONE
COYB	CLEANOUT IN YARD BOX	GEN	GENERAL	OC	ON CENTER	TEMP	TEMPERATURE, TEMPORARY
CONT	CONTINUED, CONTINUATION	GPM	GALLONS PER MINUTE	OD	OVERFLOW DRAIN	THK	THICK
CONTR	CONTRACTOR	GR	GRADE	OPNG	OPENING	T.D.L.	TOTAL DEVELOPED LENGTH
CPLG	COUPLING	GV	GATE VALVE	OPP	OPPOSITE	T.O.G.	TOP OF GRATE
CP	CIRCULATING PUMP	GW	GREASE WASTE	O.S.E.Y.	OUTSIDE SCREW AND YOKE VALVE	T.O.S.	TOP OF STRUCTURE
CTR(S)	CENTER(S)	GWH	GAS WATER HEATER	PD	PLANTERS DRAIN	TYP	TYPICAL
CV	CHECK VALVE	HB	HOSE BIBB	PG	PRESSURE GAUGE	T	TANK (WATER/OIL)
CW	COLD WATER	HD	HEAD	PNL	PANEL	UG	UNDERGROUND
D	DRAIN	HDR	HEADER	P.O.C.	POINT OF CONNECTION	UON	UNLESS OTHERWISE NOTED
DBL	DOUBLE	HORIZ	HORIZONTAL	PRESS	PRESSURE	UR	URINAL
DEPT	DEPARTMENT	HP	HORSEPOWER	PRV	PRESSURE REGULATING VALVE	V	VENT, VOLTS
DET	DETAIL	HR	HOUR	PS	PRESSURE SWITCH	VAC	VACUUM
DEVEL	DEVELOPED	HV	HOSE VALVE	PSI	POUND PER SQUARE INCH	YBF	VENT BELOW FLOOR
DF	DRINKING FOUNTAIN	HW	HOT WATER	%	PER CENT	VCP	VITRIFIED CLAY PIPE
DIA	DIAMETER	HWR	HOT WATER RETURN	RCP	REINFORCED CONCRETE PIPE	VERT	VERTICAL
DIP	DUCTILE IRON PIPE	HVAC	HEATING, VENTILATION & AIR CONDITIONING	RD	ROOF DRAIN	VLV	VALVE
DISCH	DISCHARGE	ICW	INDUSTRIAL COLD WATER	RED	REDUCER, REDUCING	VTR	VENT THRU ROOF
DIST	DISTRIBUTION	ID	INSIDE DIAMETER	REG	REGULATOR, REGULATING	W	WASTE
DN	DOWN	IN	INCHES	REF	REFERENCE	W/	WITH
DS	DOWN SPOUT	INTEG	INTEGRAL	REFRIG	REFRIGERATION, REFRIGERATOR	WARR	WARRANTY
DSP	DIESEL SUPPLY PIPE	INCL	INCLUDING	REINF	REINFORCING	WCO	WALL CLEANOUT
DWG(S)	DRAWING(S)	INT	INTERIOR, INTERNAL	REQ'D	REQUIRED	WH	WATER HEATER
EA	EACH	INV. EL.	INVERT ELEVATION	REV	REVISION, REVISED	WHA	WATER HAMMER ARRESTER
ECC RED	ECCENTRIC REDUCER	IPS	IRON PIPE SIZE	RM	ROOM	W/O	WITHOUT
EJ	EXPANSION JOINT	IW	IRRIGATION WATER			WS	WATER SOFTENER ASSEMBLY
EL	ELEVATION						

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES 0 1 2 3

REV	DATE	DESCRIPTION	BY	APP.

Information confidential:
all plans, drawings, specifications, and/or information furnished hereunder shall remain the property of the North San Diego County Transit Development Board, shall be held confidential, and shall not be used for any purpose not provided for in agreements with the North San Diego County Transit Development Board.

DESIGNED BY
B. FOSTER
DRAWN BY
B. FOSTER
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95



NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT

Caltrans
This project is funded in part by a grant provided by the State of California Department of Transportation.

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7/10/95
WILLIAM B. GIFFORD M 025737
EXPIRES 3-31-97

STUART MESA MAINTENANCE FACILITY
MAINTENANCE BUILDING
1FB 6-94-14B

PLUMBING GENERAL NOTES
AND ABBREVIATIONS

SCALE
NONE

DRAWING NO.
P0.01

PLOT TIME 10-APR-1995 09:55 H:\2121\DWG\PLMB\21WNP12.dwg

—————	SANITARY SOIL OR WASTE ABOVE GRADE
—————	SANITARY SOIL OR WASTE BELOW GRADE
—— A ———	COMPRESSED AIR
—— AS ———	AUTOMATIC FIRE SPRINKLER
—— AW ———	ACID WASTE
—— D ———	DRAIN
—————	COLD WATER
—————	HOT WATER
—— F ———	FIRE WATER
—— OD ———	OVERFLOW DRAIN
—— OD ———	OVERFLOW DRAIN BELOW GRADE
—— SD ———	STORM DRAIN
—— SD ———	STORM DRAIN BELOW GRADE
—— SED ———	SEWAGE EJECTOR DISCHARGE
—— SS ———	SANITARY SEWER
—— GW ———	WASTE TO GREASE INTERCEPTOR
—— TP ———	TRAP PRIMER LINE
—— ———	SANITARY VENT (ABOVE GRADE)
—— AV ———	ACID VENT
—— VBF ———	SANITARY VENT (BELOW GRADE)
—— DSP ———	DIESEL SUPPLY PIPE
—— LOS ———	LUBE OIL SUPPLY
—— CWV ———	COMBINATION WASTE AND VENT
—————	EXISTING PIPING (TO REMAIN)

SYMBOLS

	GATE VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	BACKWATER VALVE (EXTENDED RISE TO GRADE)
	PRESSURE REGULATING VALVE ASSEMBLY
	SOLENOID OPERATED VALVE
	PRESSURE-TEMPERATURE RELIEF VALVE
	FLOOR DRAIN
	AREA DRAIN
	TRENCH DRAIN
	SHOWER HEAD
	VALVE ON RISER
	HOSE BIBB (BOX)
	HOSE BIBB
	BALL VALVE
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF TOP
	RISER DROP
	RISER UP
	WALL CLEANOUT
	CLEANOUT PLUG
	FLOOR CLEANOUT
	CLEANOUT TO GRADE
	ELBOW
	BACKFLOW PREVENTER
	AIR OUTLET

	UNION
	CAP OR PLUG
	GLOBE VALVE
	TEE
	"Y" STRAINER
	"Y" STRAINER WITH BLOW-OFF VALVE
	WYE
	CONCENTRIC REDUCER
	EXCENTRIC REDUCER
	AUTOMATIC SPRINKLER RISER
	VENT THRU ROOF
	FLOW-IN DIRECTION OF ARROW
	SQUARE FEET
	POINT OF CONNECTION
	BELL-UP
	FIRE HOSE VALVE
	SLEEVE
	PRESSURE GAUGE (WITH COCK)
	SHUT OFF VALVE
	OUTSIDE SCREW AND YOE VALVE
	WATER HAMMER ARRESTER
	TEMPERATURE MIXING VALVE
	FLOW REGULATING SWITCH
	THERMOMETER
	DIAGRAM NUMBER
	DRAWING NUMBER
	EQUIPMENT NAME
	EQUIPMENT NUMBER

FOR REDUCED PLANS
ORIGINAL SCALE 1/8" = 1'-0"

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY
B. FOSTER
DRAWN BY
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IN CHARGE
R. OWEN
DATE
04/10/95



NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT



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4/10/95

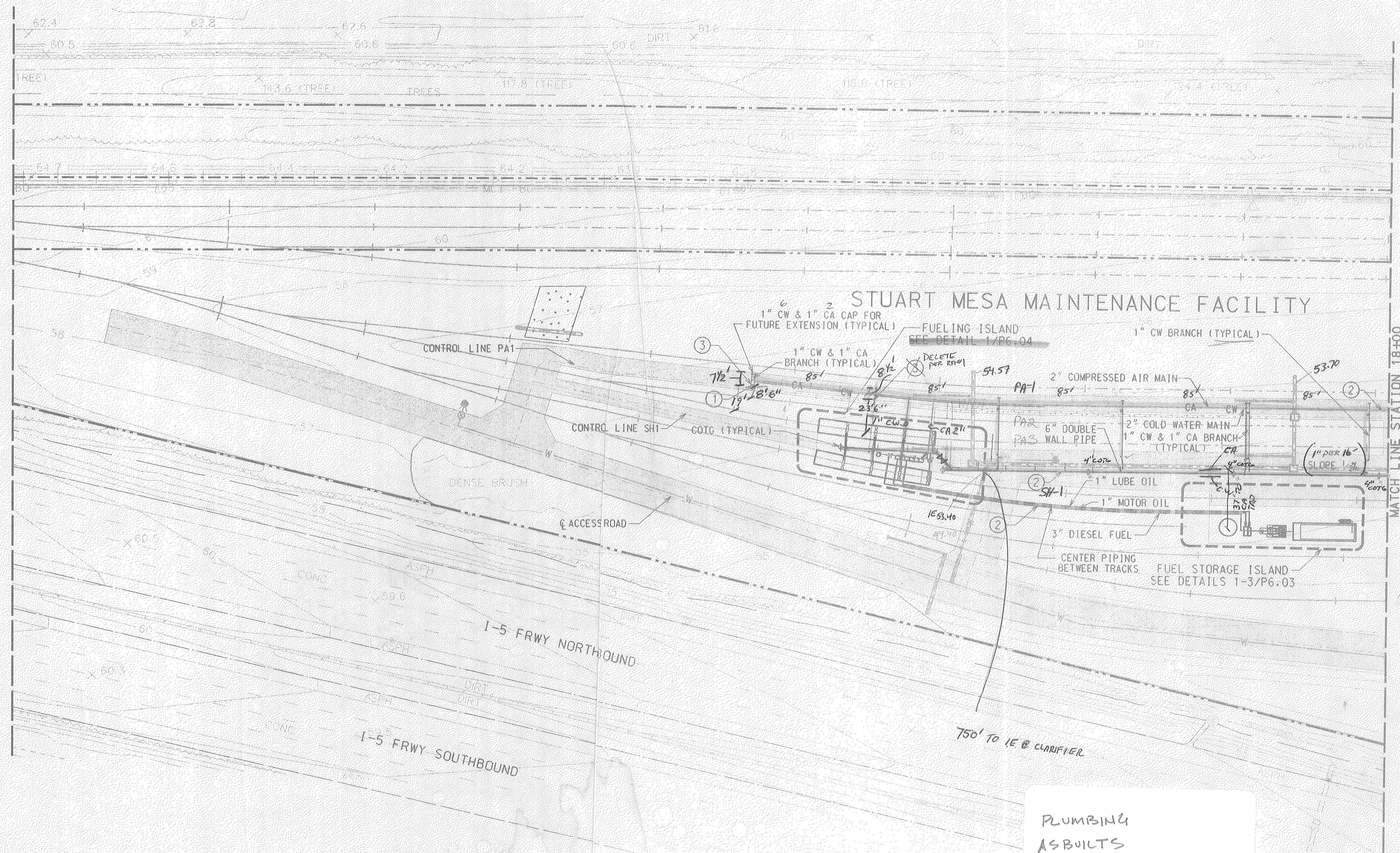
STUART MESA MAINTENANCE FACILITY
MAINTENANCE BUILDING
IFB 6-94-14B
PLUMBING SYMBOLS

SCALE	NONE
DRAWING NO.	P0.02

MCB CAMP JOSEPH H. PENDLETON

CONSTRUCTION NOTES

- RAILROAD SANITARY HYDRANT, COMPRESSED AIR STATIONS AND ALL ABOVE GROUND ELEMENTS IN PAVED AREAS TO BE ALIGNED WITH LIGHT POLES AND ELEMENTS OF OTHER TRADES. LOCATE FOR MINIMUM CLEARANCE FROM TRAIN ON ONE SIDE (8.5' FROM TRACK CENTERLINE) AND MAXIMUM CLEARANCE FOR VEHICULAR TRAFFIC ON THE OTHER.
- BURY LUBE OIL, MOTOR OIL, DIESEL FUEL, WATER AND COMPRESSED AIR LINES A MINIMUM OF 4'-0". SEWER AND VENT LINES SHALL BE BURIED AS INDICATED ON PLANS. ANY SEWER OR VENT LINE LESS THAN 4" IN SIZE AND BURIED LESS THAN 4'-0" SHALL BE CAST IRON.
- COLD WATER (CW) AND COMPRESSED AIR (CA): VALVE AND CAP 8" ABOVE GRADE FOR FUTURE CONNECTION BY OWNER. PROVIDE 48" x 24" CONCRETE PAD WITH (2) BOLLARDS ON TRAFFIC SIDE (TYPICAL). SEE DETAIL 3/P6.02.



PLUMBING
AS BUILTS

RECORD
DOCUMENTS

CONFORMED 06/05/95

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

SCALE
1" = 40'

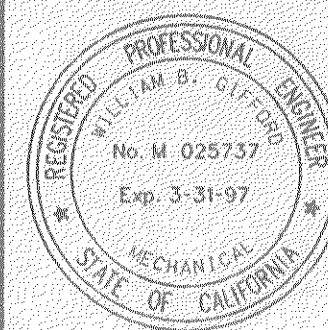
DRAWING NO.
P2.01

NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT

STUART MESA MAINTENANCE FACILITY
SITE WORK
IFB 6-94-14B

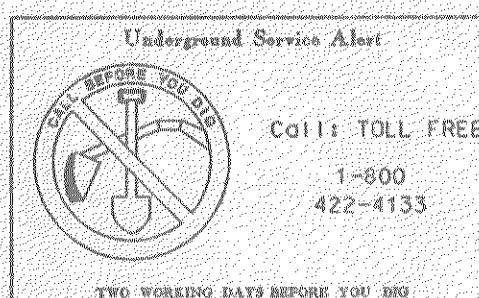
PLUMBING SITE PLAN
STA 8+50 TO 18+00

DESIGNED BY
T. PUCKETT
DRAWN BY
M. BRADVICA
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95



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WILLIAM B. GIFFORD W. 025737
EXPIRES 3-31-97



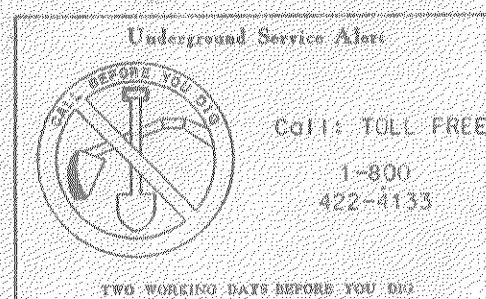
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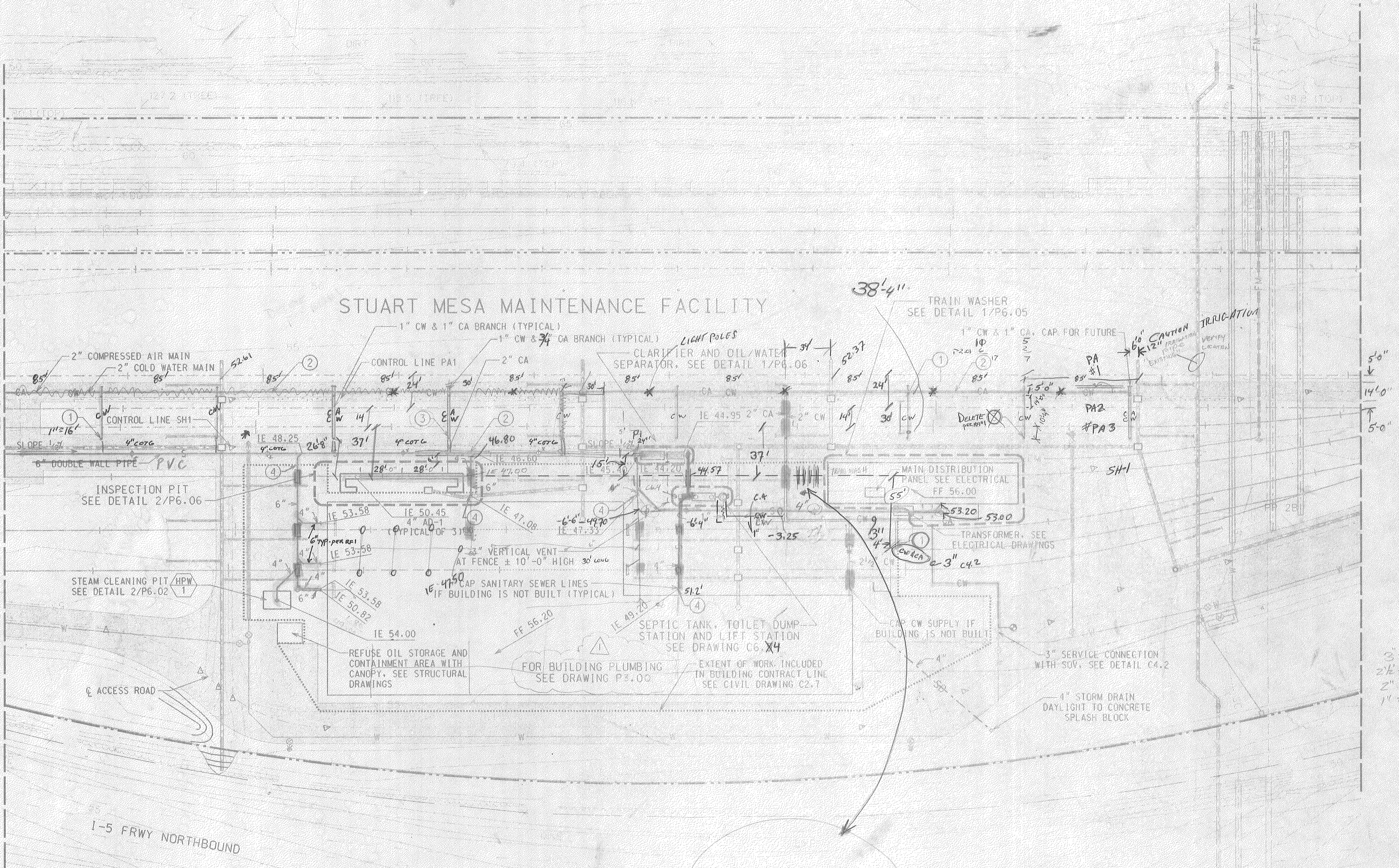
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- COLD WATER (CW) AND COMPRESSED AIR (CA): VALVE AND CAP 8" ABOVE GRADE FOR FUTURE CONNECTION BY OWNER. PROVIDE 48" x 24" CONCRETE PAD WITH (2) BOLLARDS ON TRAFFIC SIDE (TYPICAL). SEE DETAIL 3/P6.02.
- CAP SANITARY SEWER AT POINTS INDICATED IF BUILDING IS NOT BUILT IN THIS PHASE. SEE CIVIL DRAWING C2.7 FOR EXTENT OF WORK INCLUDED IN BUILDING CONTRACT.



MATCH LINE STATION 18+00
SEE DRAWING NO. P2.01



3' = 7.62
2 1/2' = 4.94
2\"/>

RECORD DOCUMENTS

CONFORMED 06/05/95

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

SCALE
1" = 40'

REV.	DATE	DESCRIPTION	BY	APP.
1	5/24/95	ADDENDUM #2		

DESIGNED BY
T. PUCKETT
DRAWN BY
M. BRADVICA
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95

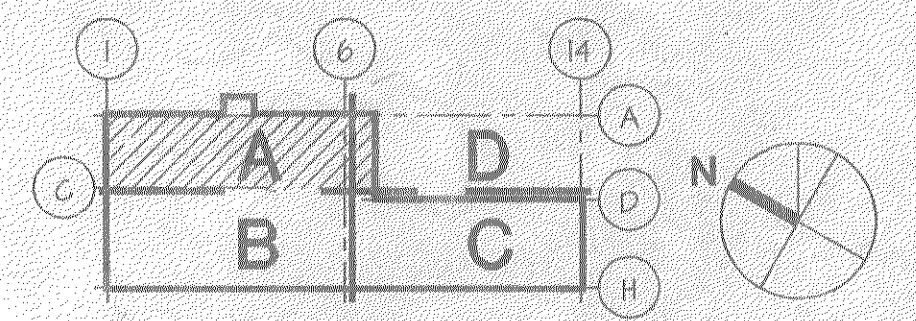
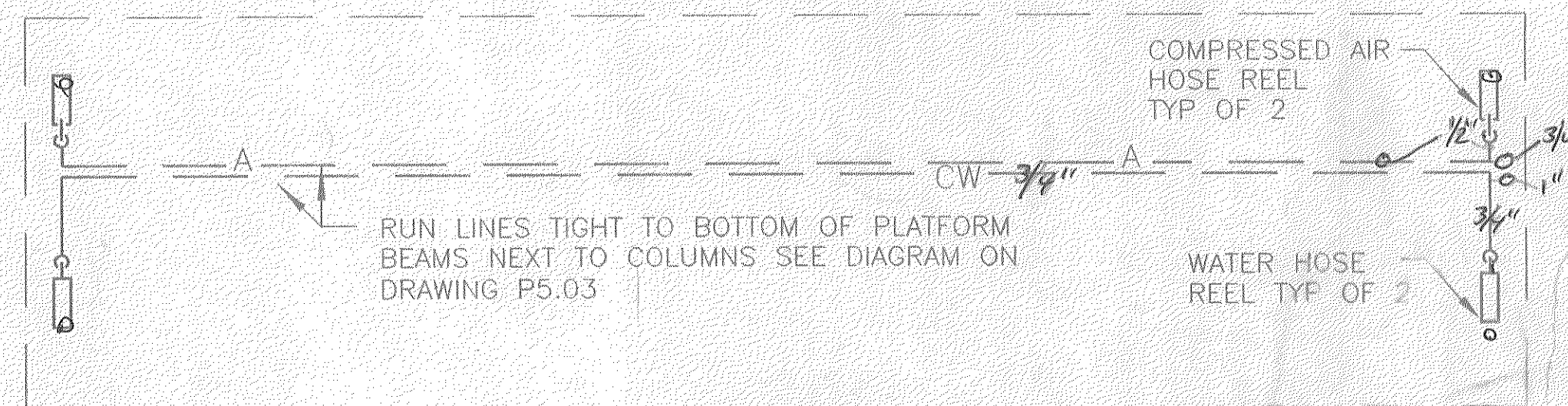
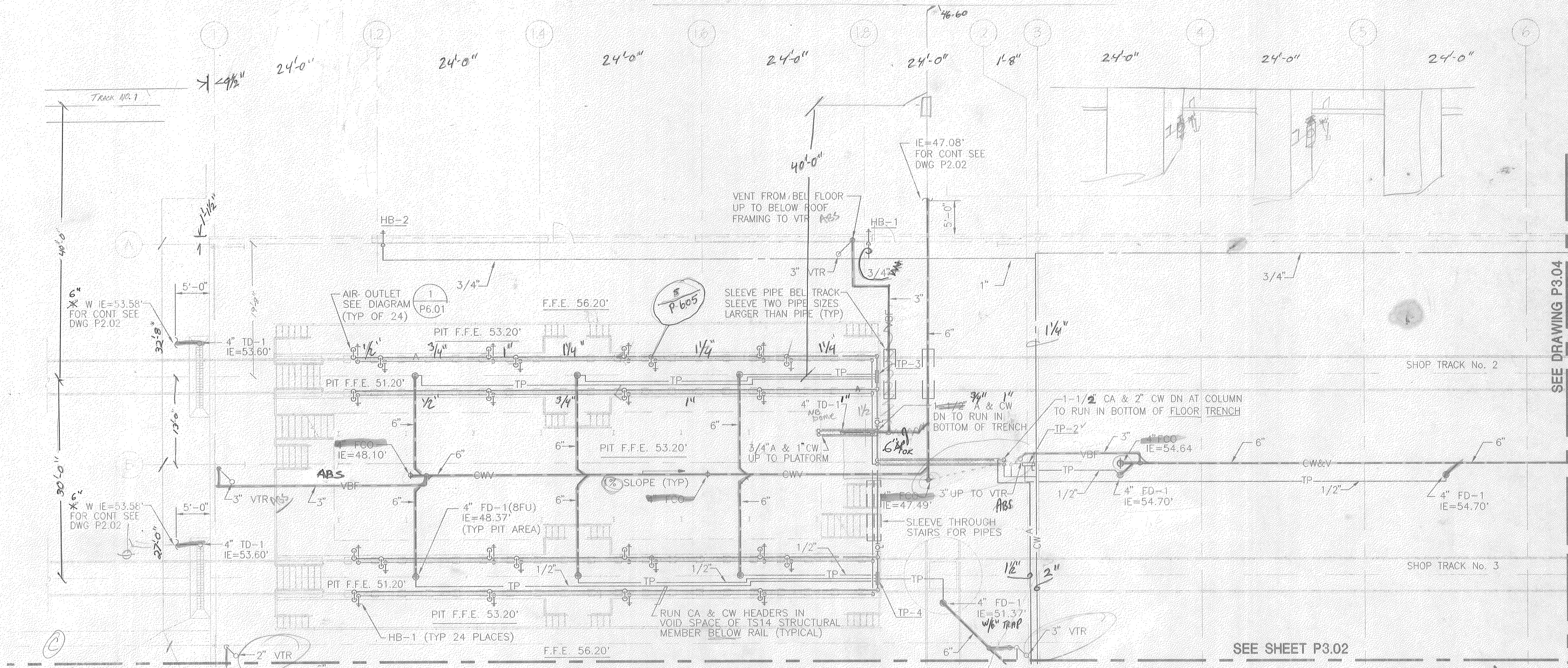
NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT

STUART MESA MAINTENANCE FACILITY
SITE WORK
IFB 8-94-14B
PLUMBING SITE PLAN
STA 18+00 TO 28+00

DRAWING NO.
P2.02

PLOT TIME: 10-APR-1995 09:42 P: *2121*21WNP402.dgn

7-APR-1995 11:47 H:\2121\DWG\PLMB\21WPA02.dwg



KEY PLAN

RECORD DOCUMENTS

CONFORMED 06/05/95

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

DATE	DESCRIPTION	BY	APP.

DESIGNED BY
B. FOSTER
DRAWN BY
B. FOSTER
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95



NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT



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4/10/95

STUART MESA MAINTENANCE FACILITY
MAINTENANCE BUILDING
1FB 6-94-14B

PLUMBING FLOOR PLAN
AREA 'A'

SCALE
1/8" = 1'-0"
DRAWING NO.
P3.01

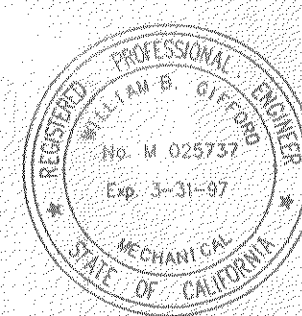
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ROOM SCHEDULE

A101	SHOP
A102	MOE OFFICE
A103	FOREMAN'S OFFICE
A104	M/K OFFICE
A105	BOMB'D OFFICE
A106	REF
A107	HOUSEKEEPING
A108	FIRST AID
A109	OFFICE
A110	TRAINING / LUNCH

A111	CORRIDOR
A112	TRANS. SUPPLIES
A113	SNDR. MANAGER
A114	MANAGER'S OFFICE
A115	GENERAL MANAGER
A116	CLERK RECEPTION

DESIGNED BY
B. FOSTER
DRAWN BY
B. FOSTER
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95



NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
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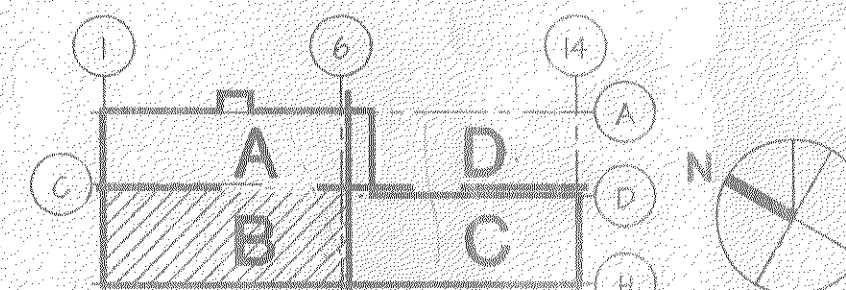
CONFORMED 06/05/95

FOR REDUCED PLANS
ORIGINAL SCALE IS

0 1 2 3
INCHES

STUART MESA MAINTENANCE FACILITY
MAINTENANCE BUILDING
IFB 6-94-14B

PLUMBING FLOOR PLAN
AREA 'B'



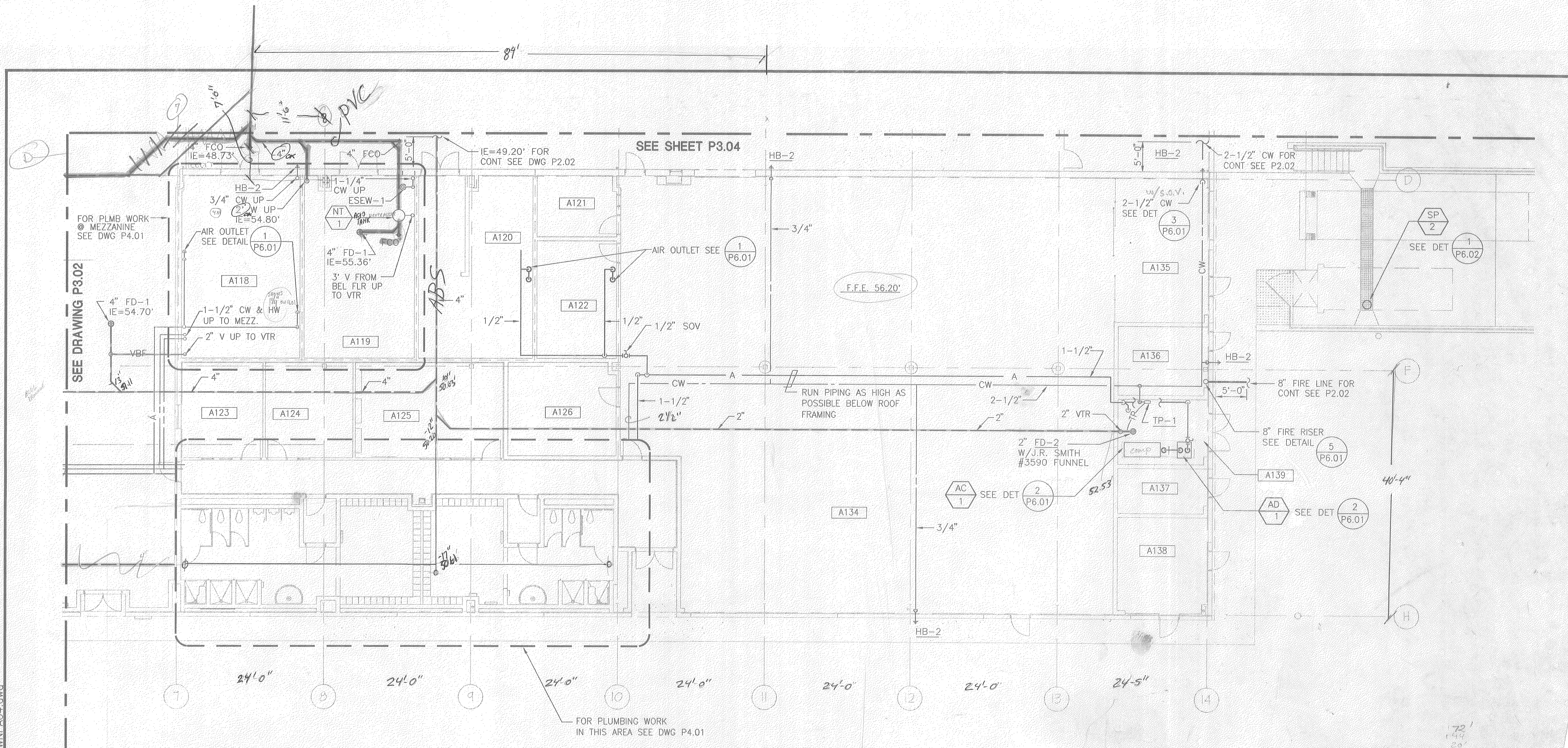
KEY PLAN

RECORD
DOCUMENTS

SCALE
1/8"=1'-0"

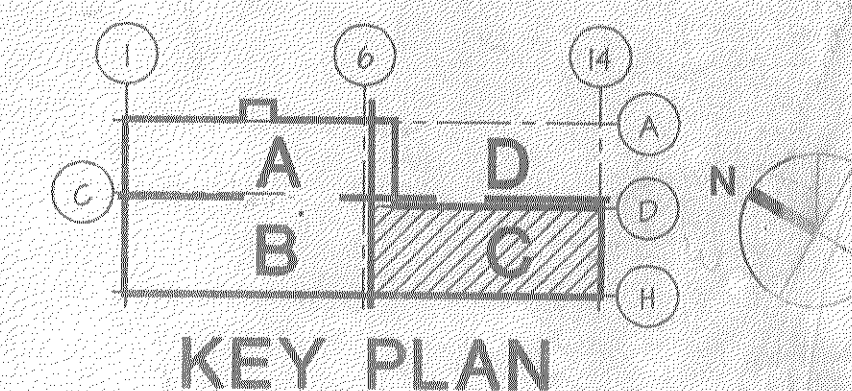
DRAWING NO.
P3.02

PLOT TIME: 10-APR-1995 11:16 H:\212\DWG\PLMB\21WPA04.dwg



ROOM SCHEDULE

A117	ENTRY FOYER	A127	CORRIDOR	A137	TELEPHONE
A118	WELD	A128	MEN SHOWERS / TOILETS	A138	ELECTRICAL
A119	BATTERY SHOP	A129	MEN LOCKERS	A139	AIR COMPRESSOR
A120	SMALL PARTS / PAINT	A130	VESTIBULE	A140	FILES
A121	OFFICE	A131	WOMEN LOCKERS	A141	SAMPLE TOILET
A122	TOOL CRIB	A132	WOMEN SHOWERS /TOILETS		
A123	TRAIN OPER. SUPERVISOR	A133	VESTIBULE		
A124	SCRRA	A134	GENERAL STORE		
A125	CREW	A135	RECEIVING		
A126	V & A STORE	A136	FIRE SPRINKLER		



KEY PLAN

RECORD DOCUMENTS

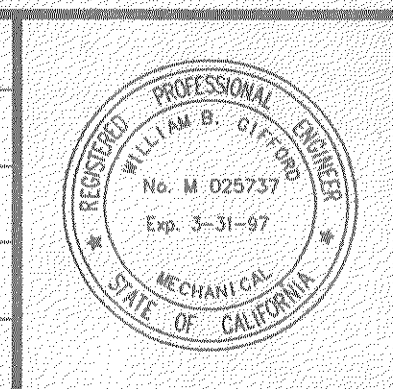
CONFORMED 06/05/95

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2

REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED BY
B. FOSTER
DRAWN BY
B. FOSTER
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95



NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT

Caltrans
this project is funded in part by a grant
provided by the State of California
Department of Transportation

DMJM
DANIEL, HARRIS, JOHNSON, & MENDENHALL
270 WEST HOSPITALITY LANE, SUITE 314
SAN BERNARDINO CA 92408
(909) 888-3466
7/1/95
WILLIAM B. GIFFORD M 025737
EXPIRES 3-31-97

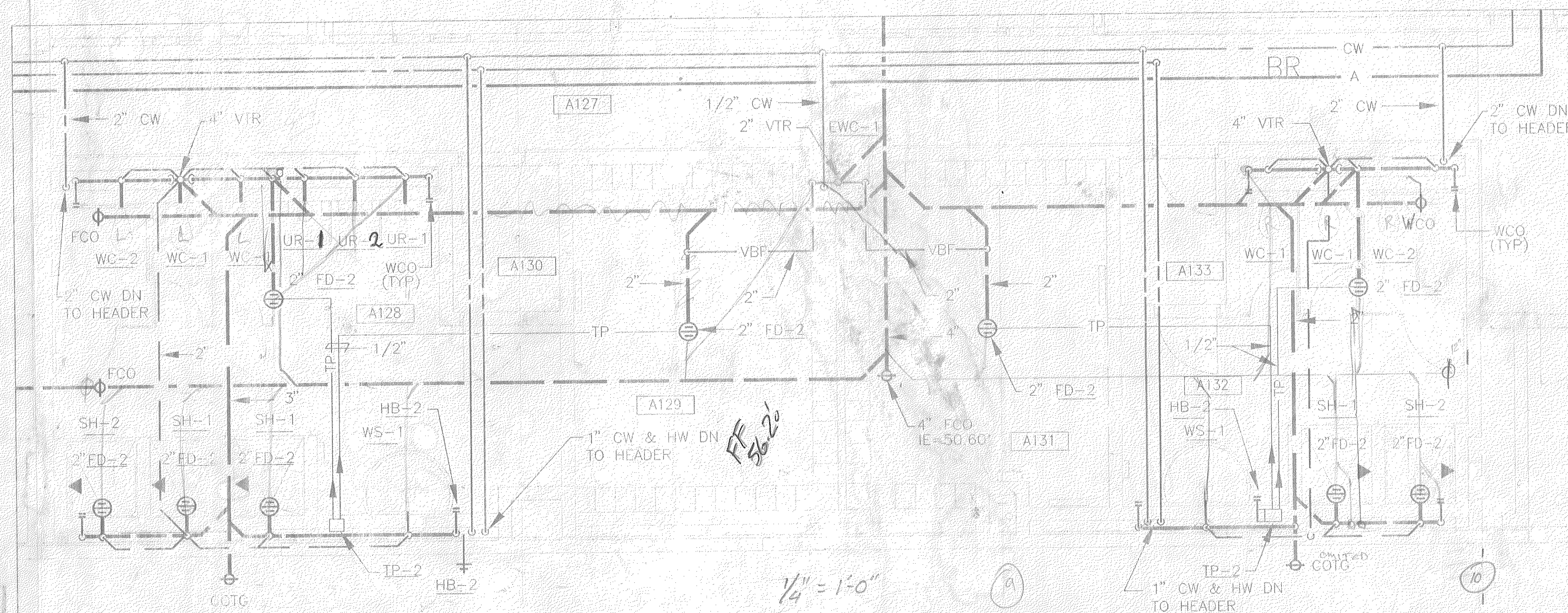
STUART MESA MAINTENANCE FACILITY
MAINTENANCE BUILDING
IFB 6-94-14B

PLUMBING FLOOR PLAN
AREA 'C'

SCALE 1/8" = 1'-0"

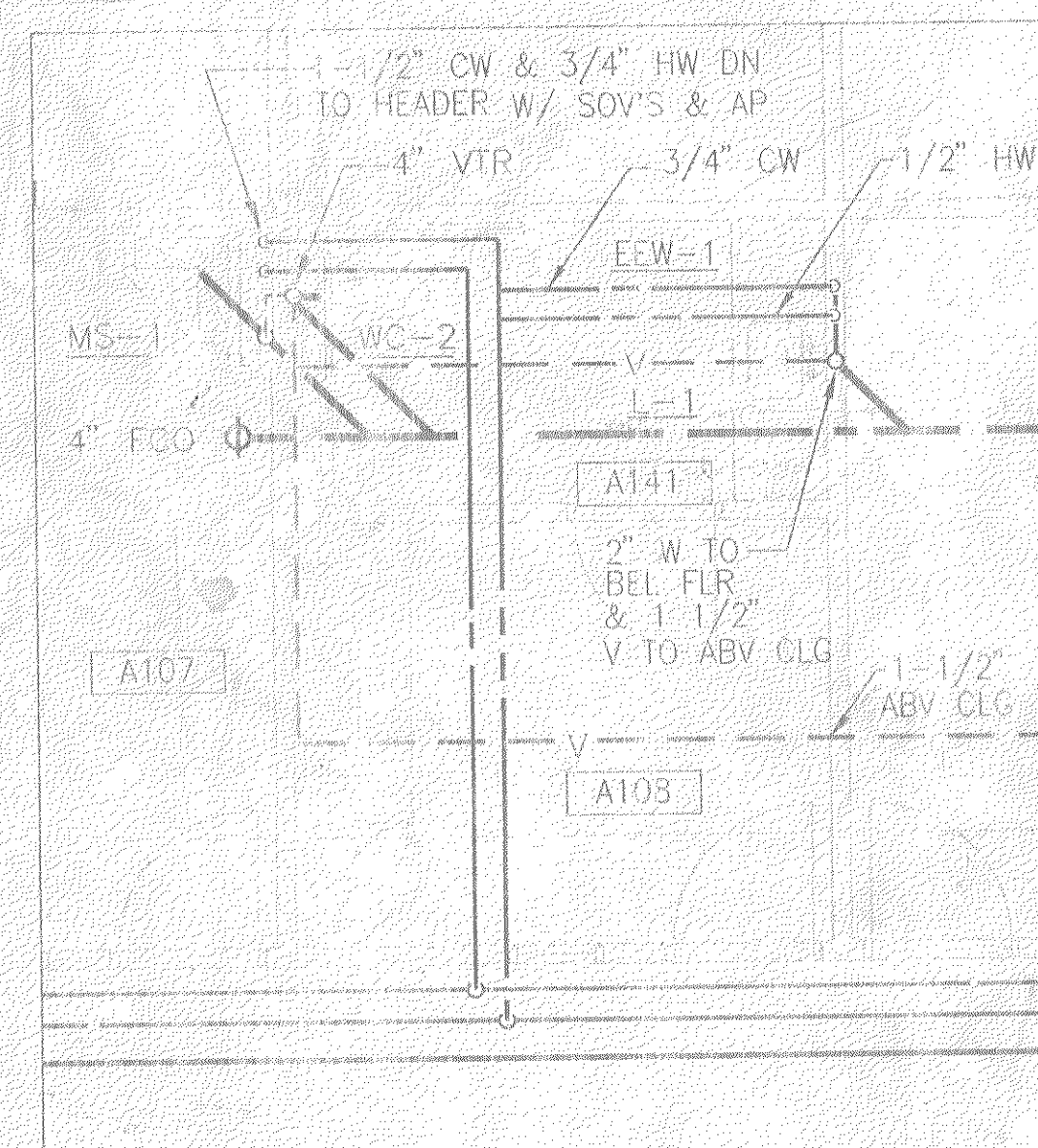
DRAWING NO
P3.03

189 of

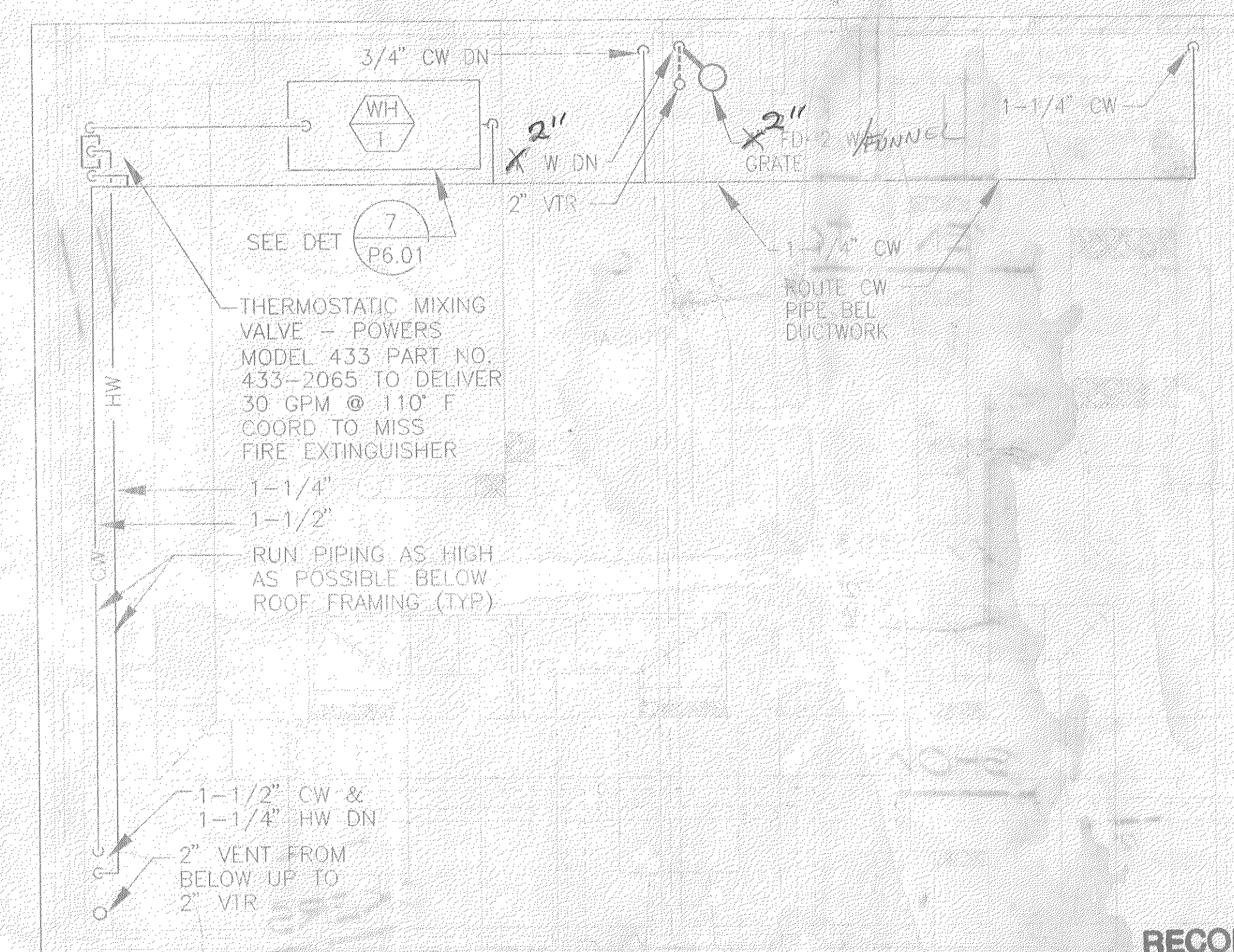


MEN'S / WOMEN'S TOILETS, SHOWERS AND LOCKER AREAS

FOR SHOWER CONTROL VALVE ON BACK WALL
SHOWER HEAD ON SIDE WALL



HOUSE-KEEPING FIRST AID, AND STAFF TOILET



MEZZANINE FLOOR PLAN

RECORD DOCUMENTS

PARTITION SCHEDULE

--

Information confidential: all plans, drawings, specifications, and/or information furnished hereafter shall remain the property of the North San Diego County Transit Development Board and shall not be used for any purpose not provided for in agreement with the North San Diego County Transit Development Board.

DESIGNED BY: R. HALLIDAY
 DRAWN BY: R. HALLIDAY
 CHECKED BY: D. HIMMELBERGER
 IN CHARGE: R. OWEN
 DATE: 4/10/95

NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
 OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT

California

DANIEL MANN JOHNSON & MENDENHALL
 275 WEST HOSPITALITY LANE, SUITE 314
 SAN BERNARDINO CA 92408
 (909) 889-3466

4/10/95

STUART MESA MAINTENANCE FACILITY
 MAINTENANCE BUILDING
 IFB 6-94-14B
 WALL PARTITION
 SCHEDULE

REV. DATE DESCRIPTION BY APP.

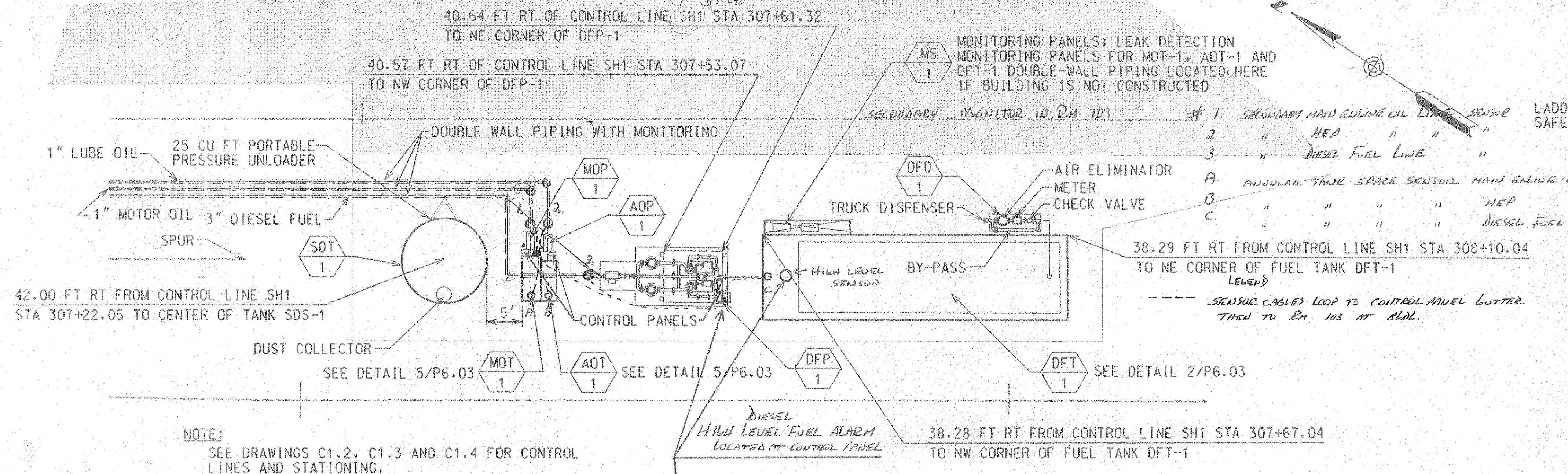
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

0 1 2 3

SCALE NONE

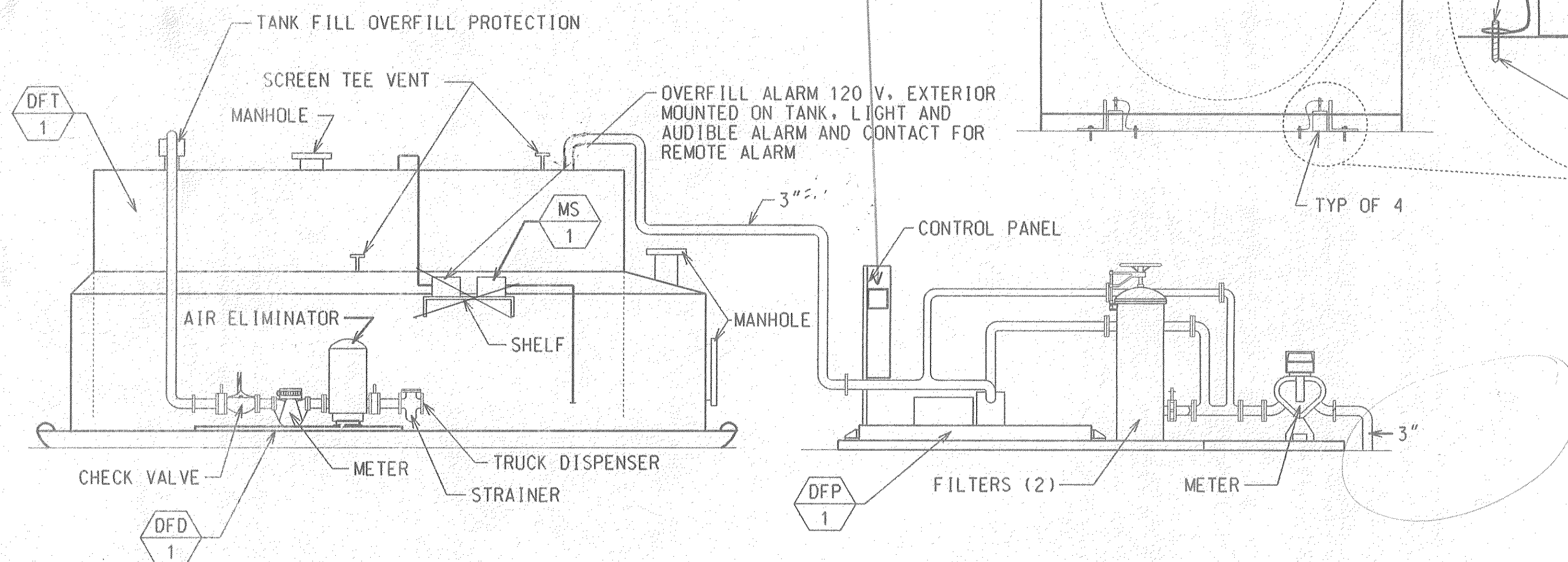
DRAWING NO. A3.06

AS BUILT
UNIVERSAL SERVICE
DAN SCHRECK
12-5-96

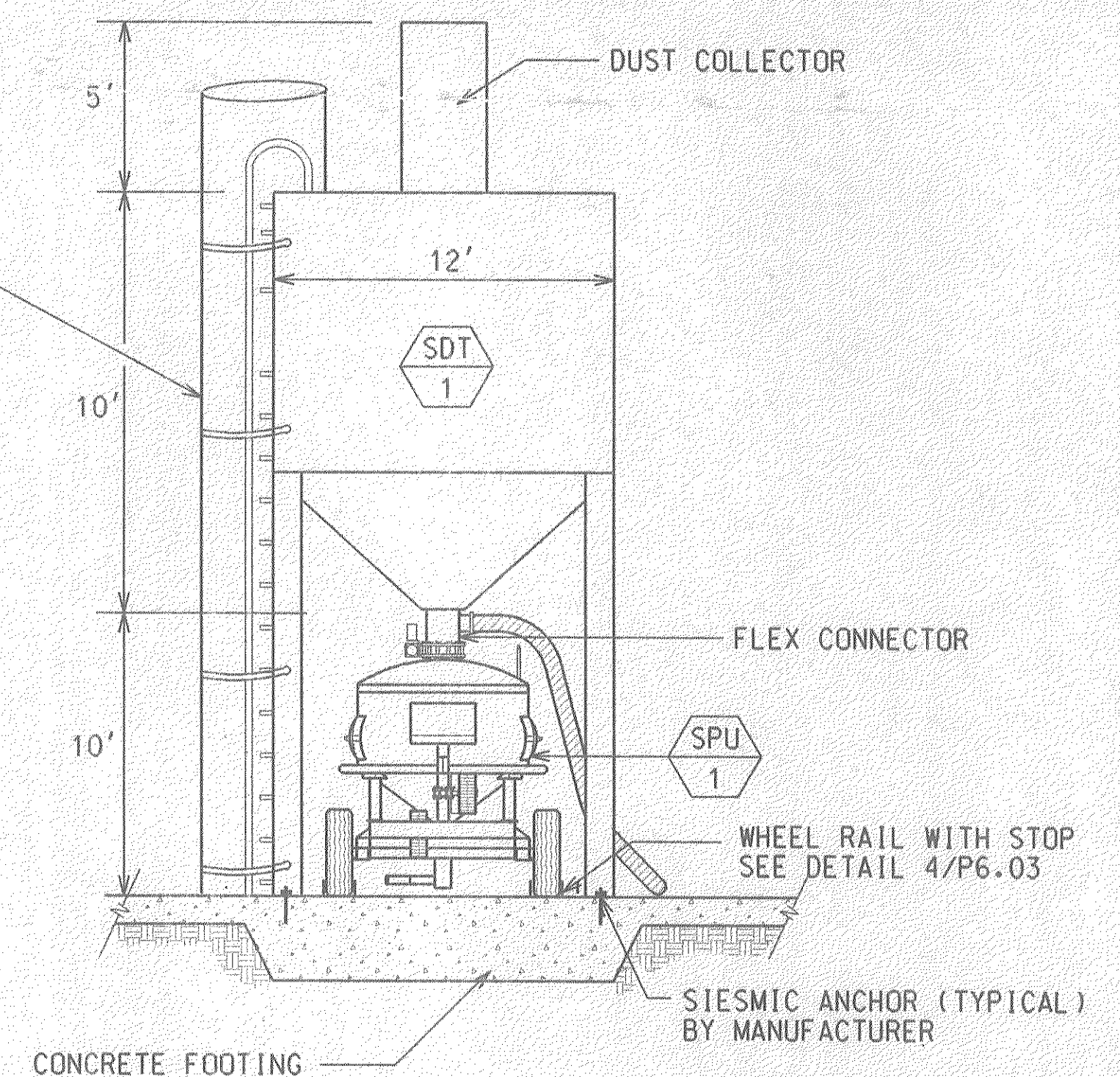


1 FUEL STORAGE ISLAND - PLAN VIEW
SCALE 1" = 10'

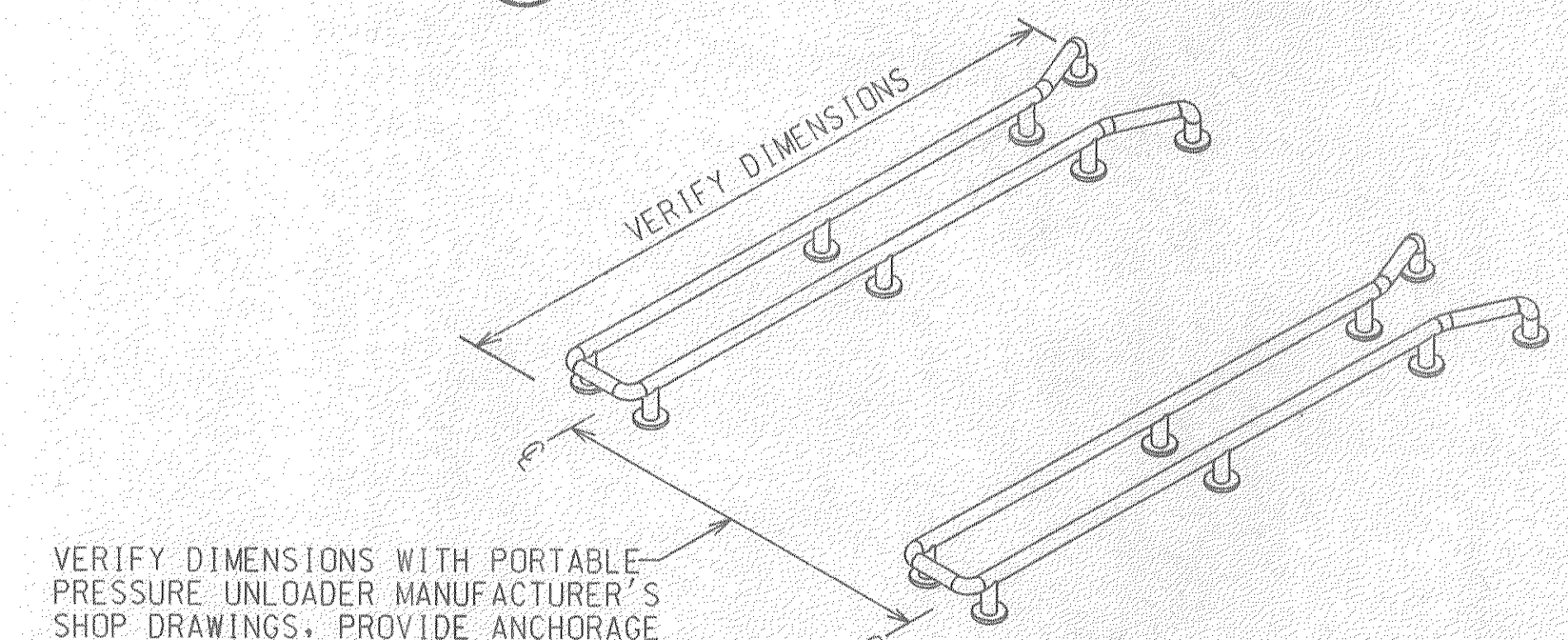
* SEE TANK SUBMITTALS FOR DIFFERENT TANKS AND RELATED EQUIPMENT CHANGES



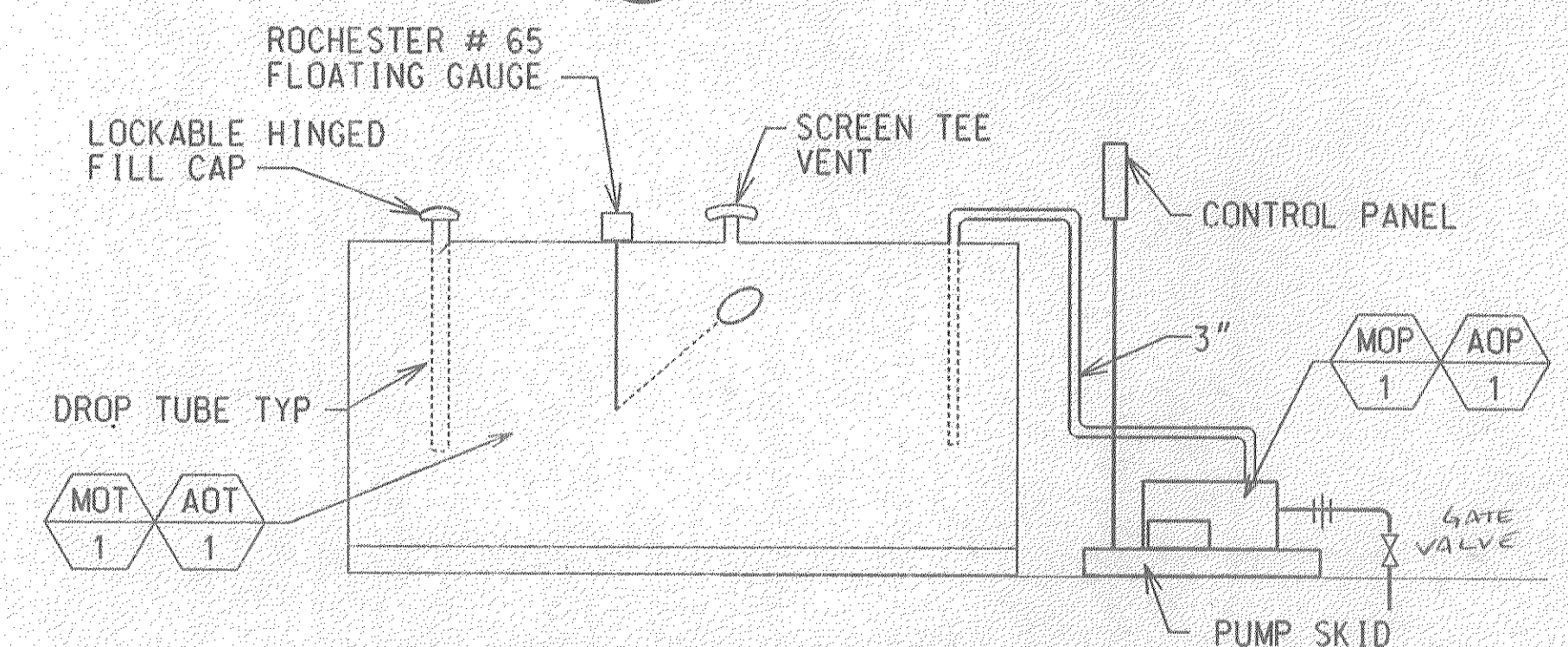
2 DIESEL FUEL STORAGE TANK - ELEVATIONS
NOT TO SCALE



3 SAND TOWER - ELEVATION
NOT TO SCALE



4 WHEEL STOP - ISOMETRIC
NOT TO SCALE



5 MOTOR OIL & LUBE OIL
NOT TO SCALE

RECORD DOCUMENTS

CONFORMED 06/05/95

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

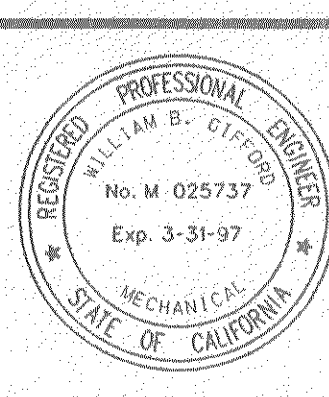
0 1 2 3

PLOT TIME: 08-APR-1995 15:35 h: #2121*21WNP006.dgn

REV.	DATE	DESCRIPTION	BY	APP.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the North San Diego County Transit Development Board; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the North San Diego County Transit Development Board.

DESIGNED BY
T. PUCKETT
DRAWN BY
M. BRADVICA
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95



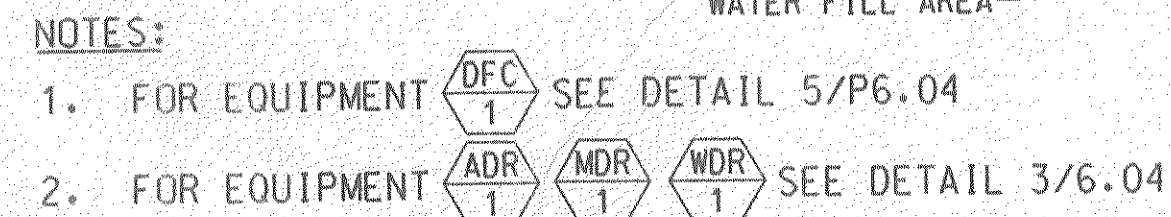
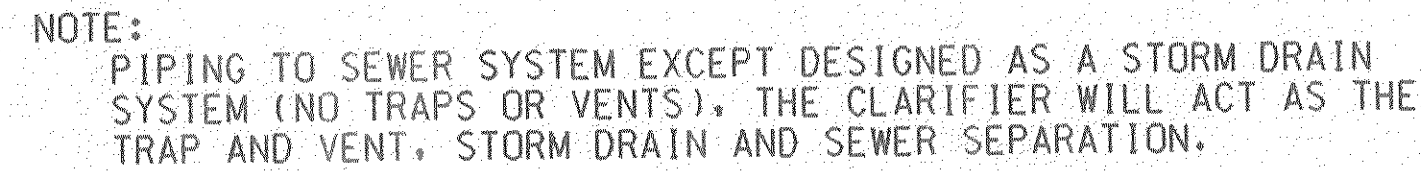
NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT

DMJM
DANIEL, MANN, JOHNSON, & MENDENHALL
275 WEST HOSPITALITY LANE, SUITE 314
SAN BERNARDINO CA 92408
(909) 389-3466
4/13/95
WILLIAM B. GIFFORD W 025737
EXPIRES 3-31-97

STUART MESA MAINTENANCE FACILITY
SITE WORK
IFB 6-94-14B
PLUMBING DETAILS
FUEL STORAGE ISLAND

SCALE
AS SHOWN
DRAWING NO.
P6.03

Dan Senneker
12-5-96



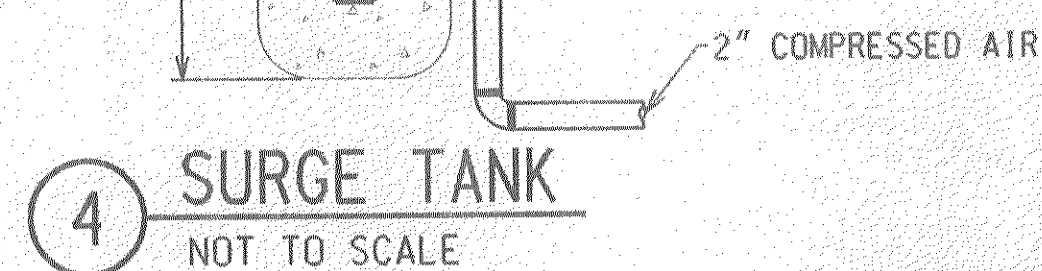
DESIGNED BY
T. PUCKETT
DRAWN BY
M. BRADVICA
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95

A circular professional engineer seal for the State of California. The outer ring contains the text "REGISTERED" on the left and "ENGINEER" on the right, separated by two stars. The inner circle contains the name "WILLIAM B. GIFFORD", the license number "No. M 025737", the expiration date "Exp. 3-31-97", and the words "MECHANICAL" and "STATE OF CALIFORNIA" at the bottom.



This project is funded in part by a grant provided by the State of California Department of Transportation.

4 SURGE TANK
NOT TO SCALE



DRAWING NO. **P6.04**

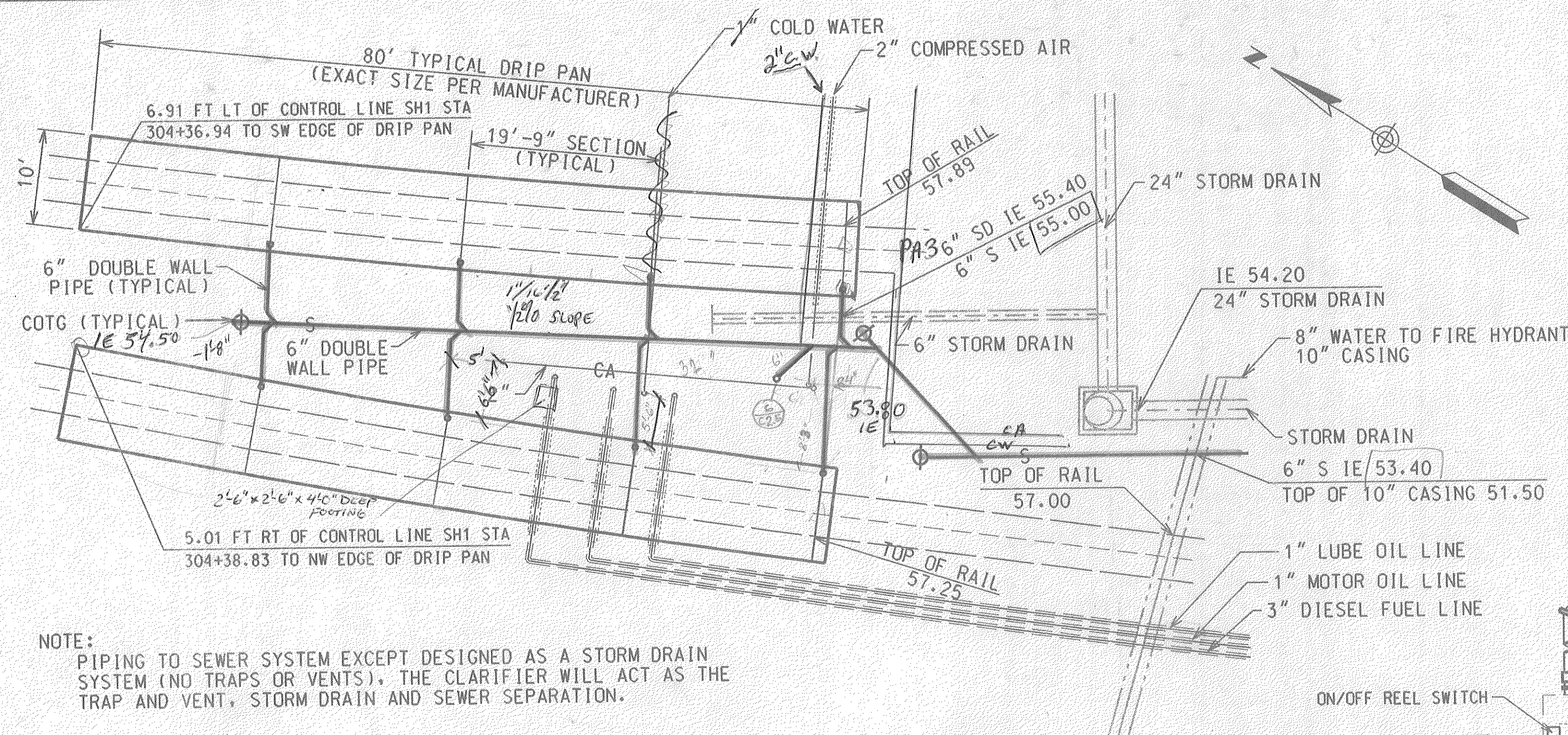
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

PLUMBING DETAILS
FUELING ISLAND

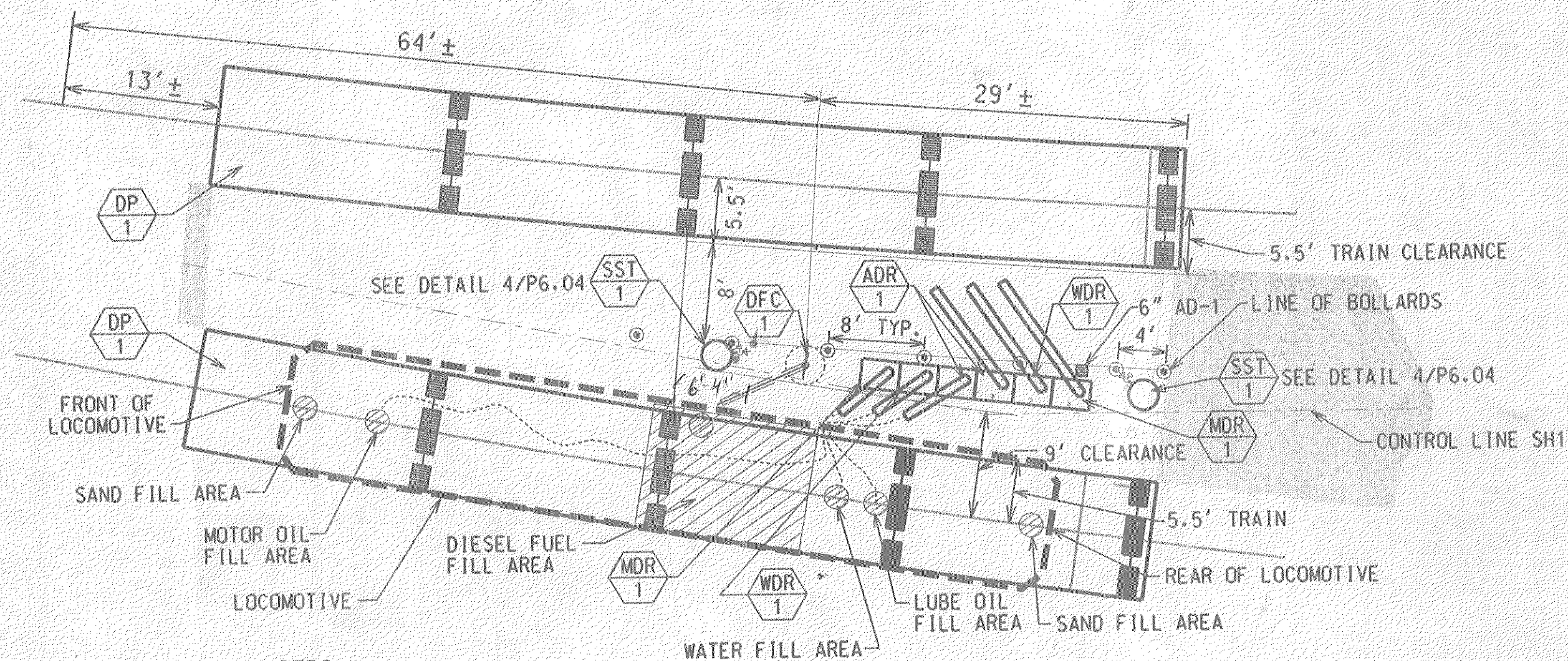
REV.	DATE	DESCRIPTION	BY	APP.
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7 OF 211

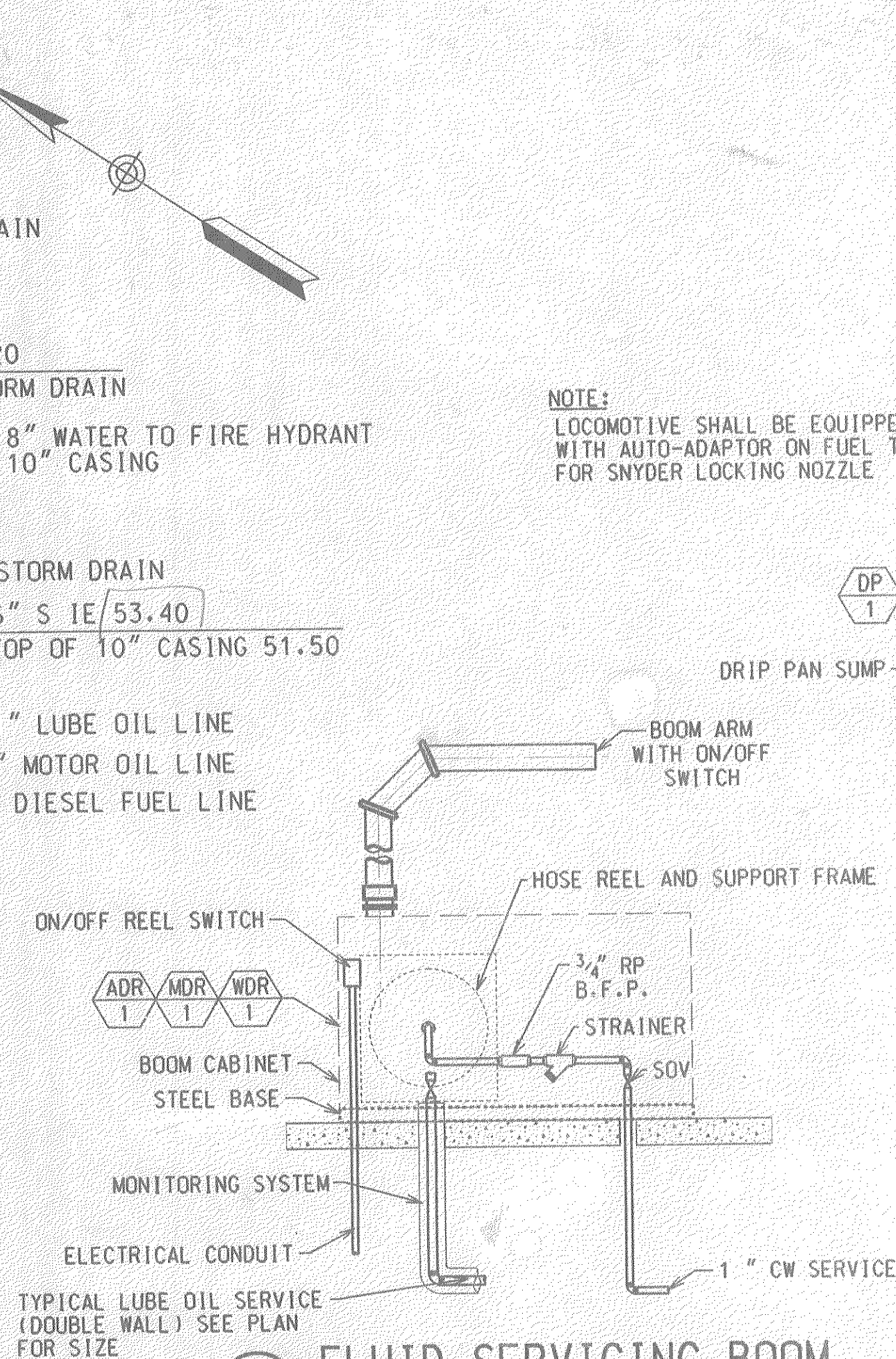
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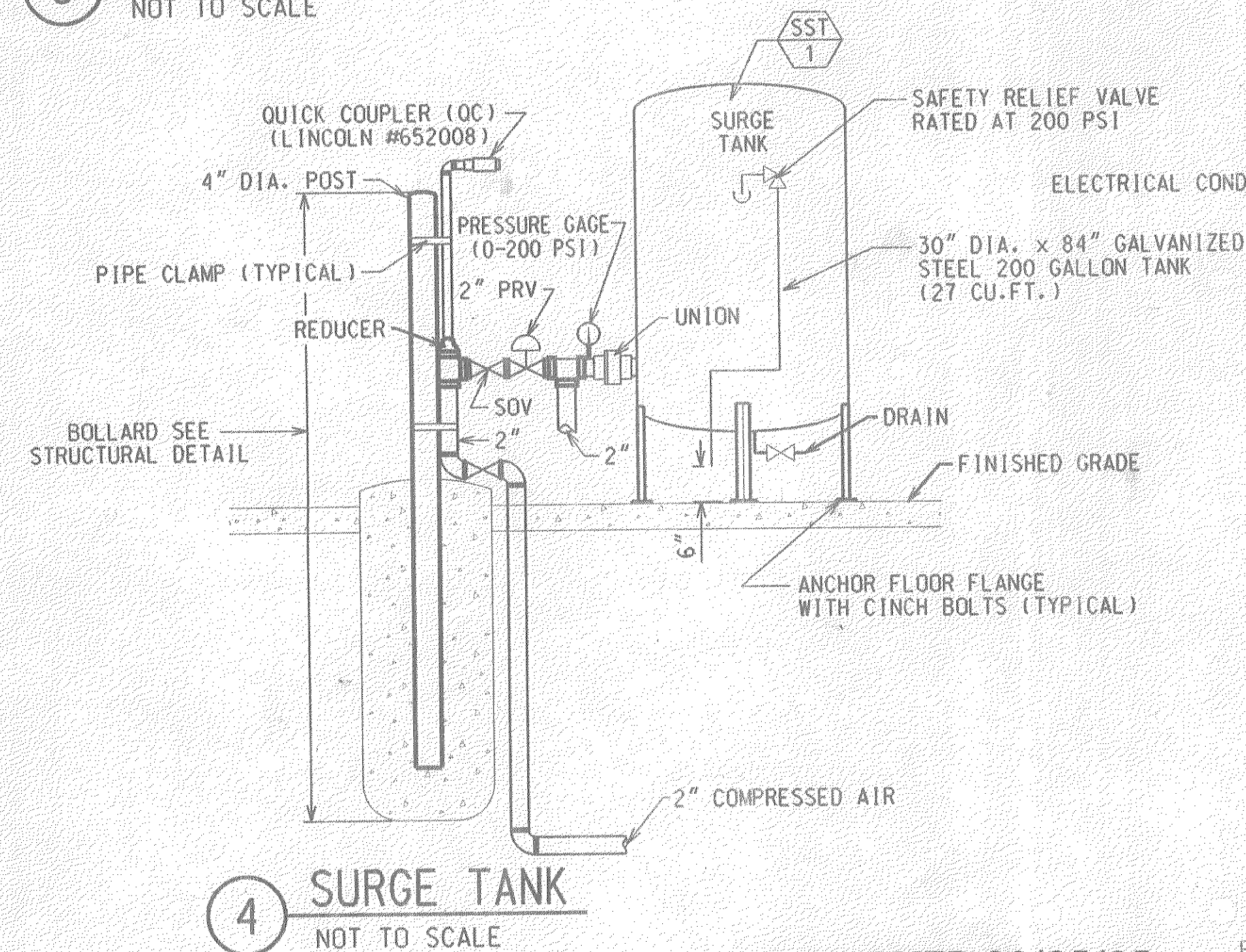
1 BELOW GRADE PIPING PLAN-DRIP PAN AREA
SCALE 1" = 10'-0"



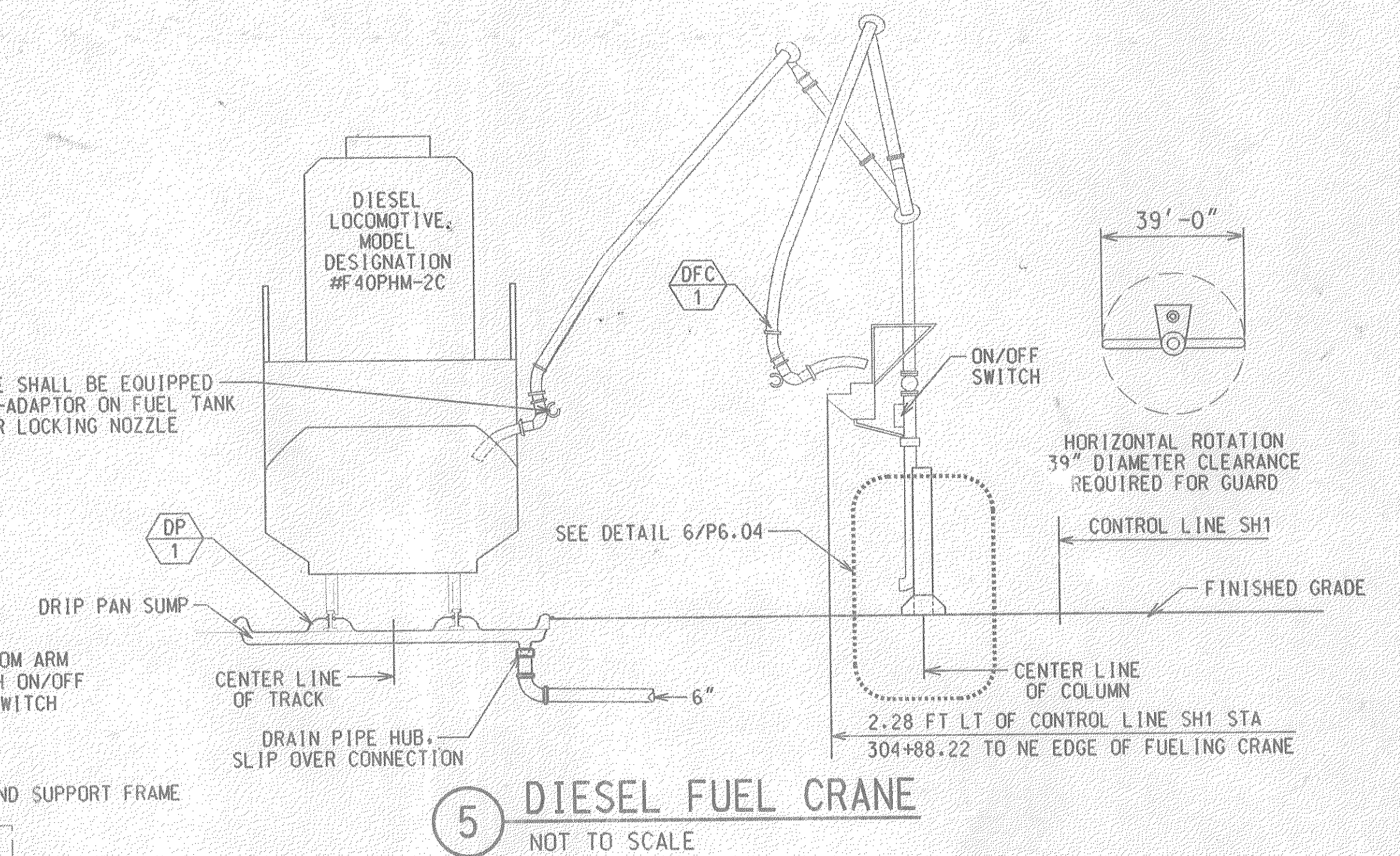
2 ABOVE GRADE EQUIPMENT PLAN - DRIP PAN AREA
SCALE 1" = 10'-0"



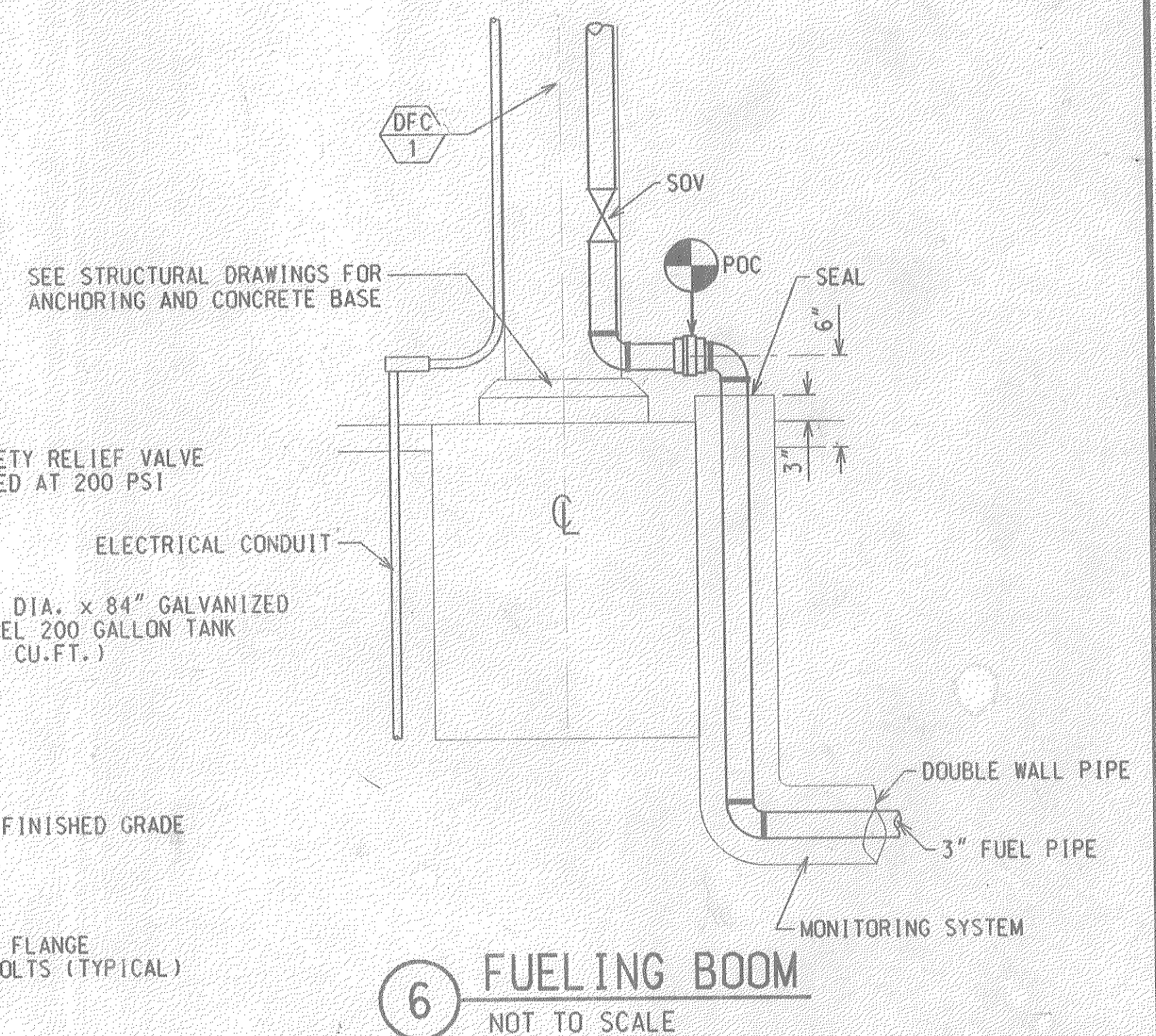
3 FLUID SERVICING BOOM
NOT TO SCALE



4 SURGE TANK
NOT TO SCALE



5 DIESEL FUEL CRANE
NOT TO SCALE



6 FUELING BOOM
NOT TO SCALE

RECORD DOCUMENTS

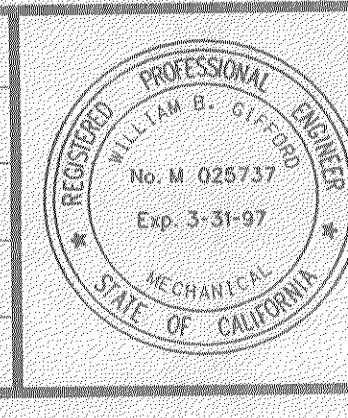
CONFORMED 06/05/95

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3

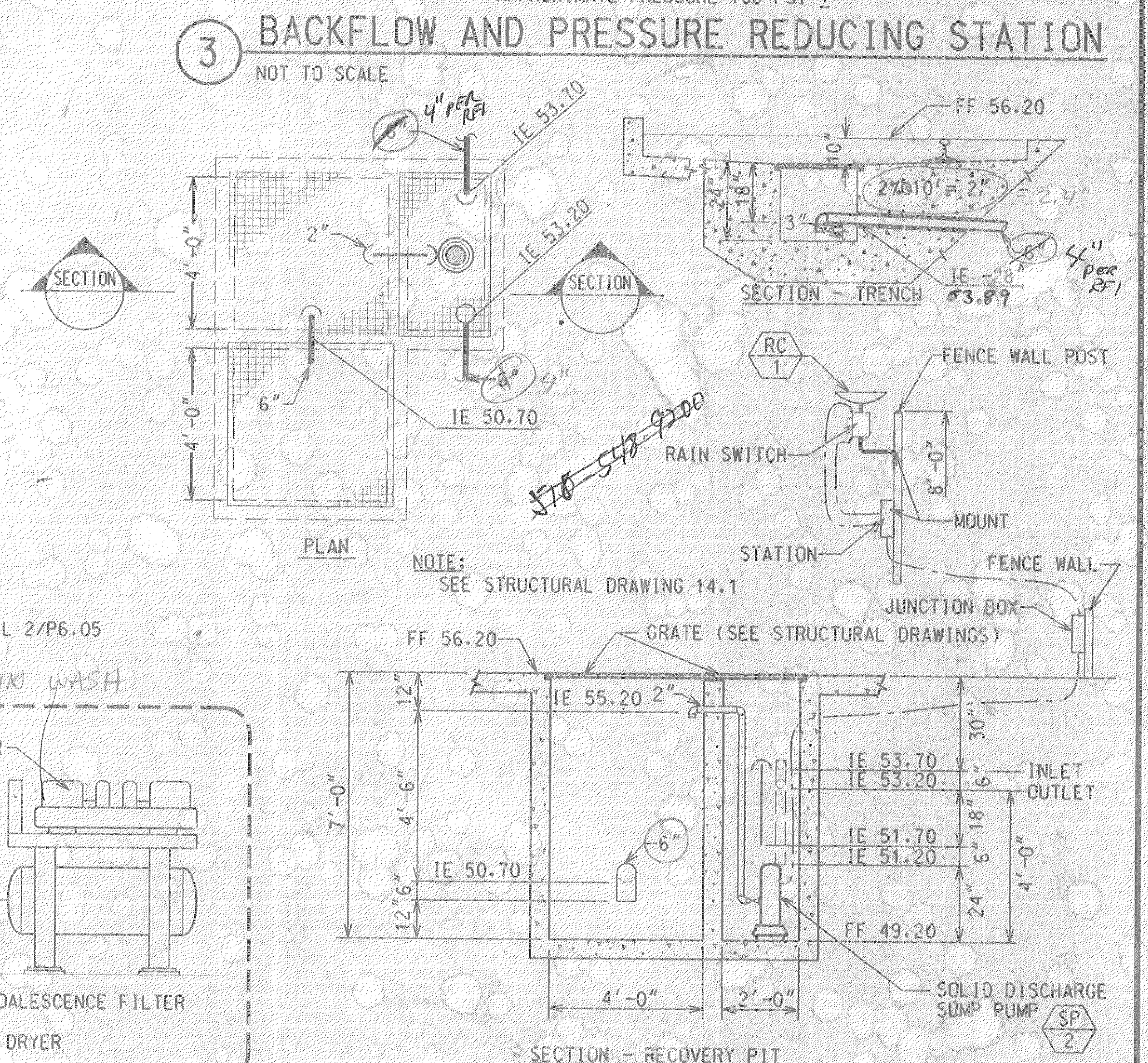
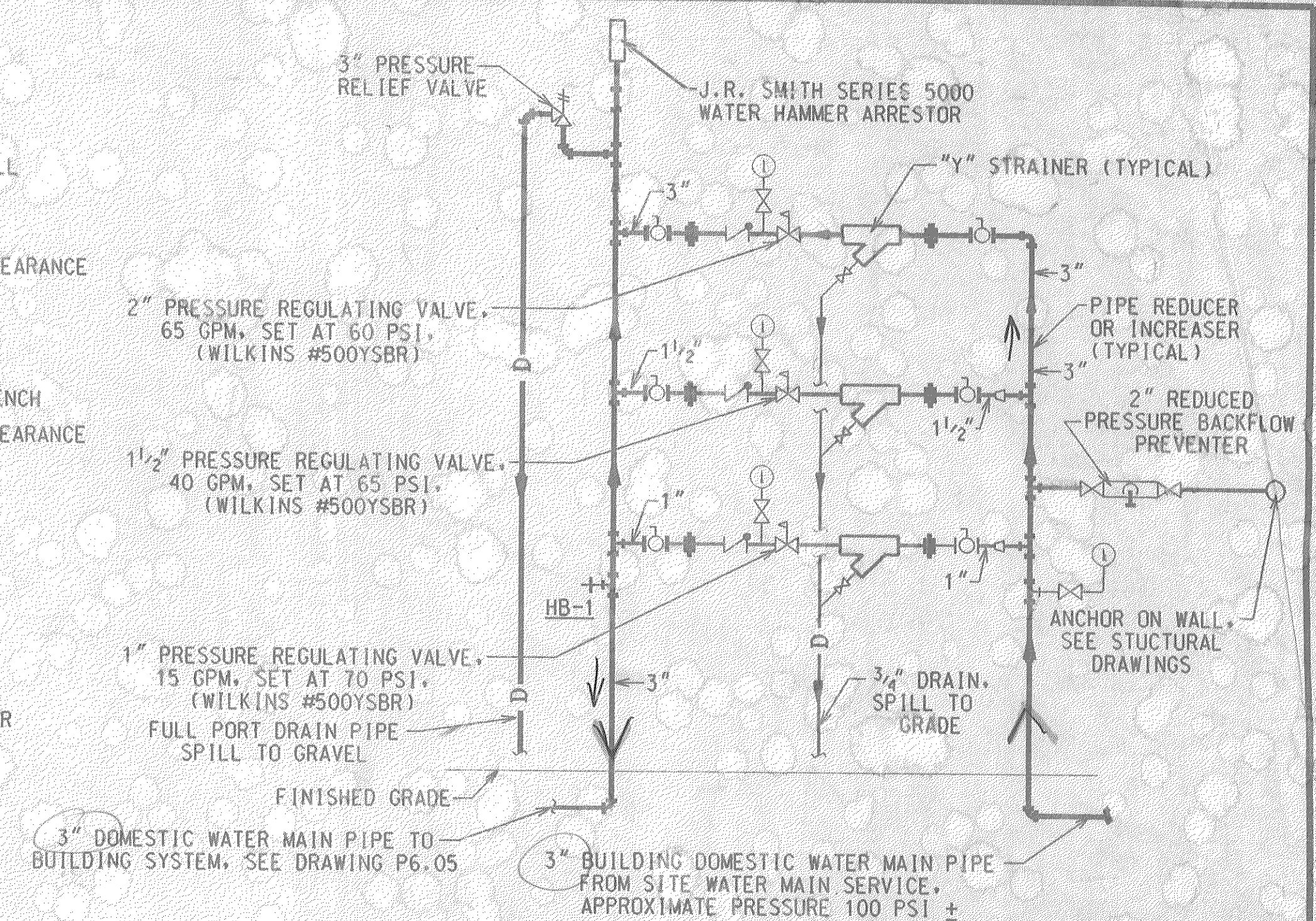
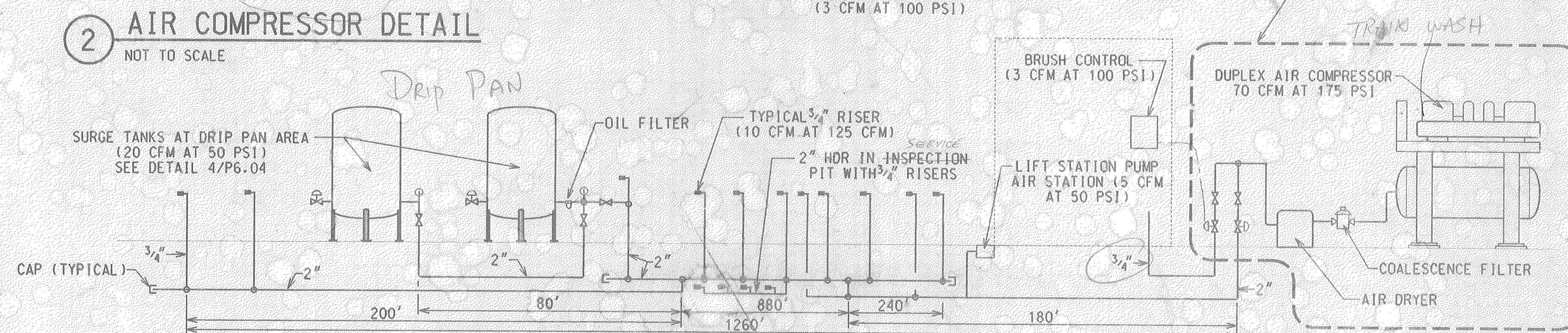
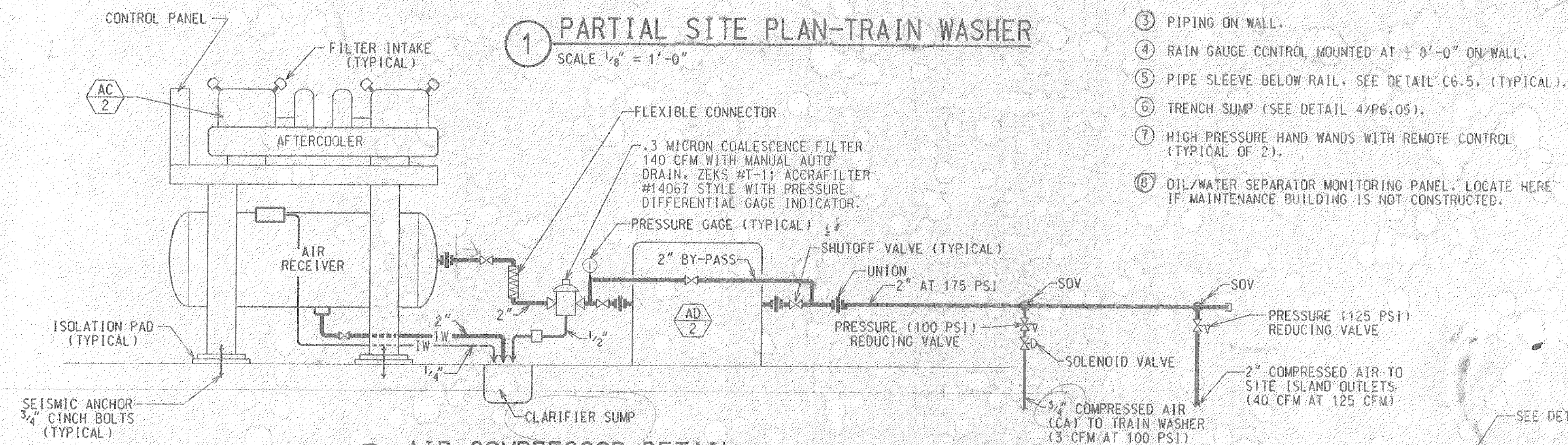
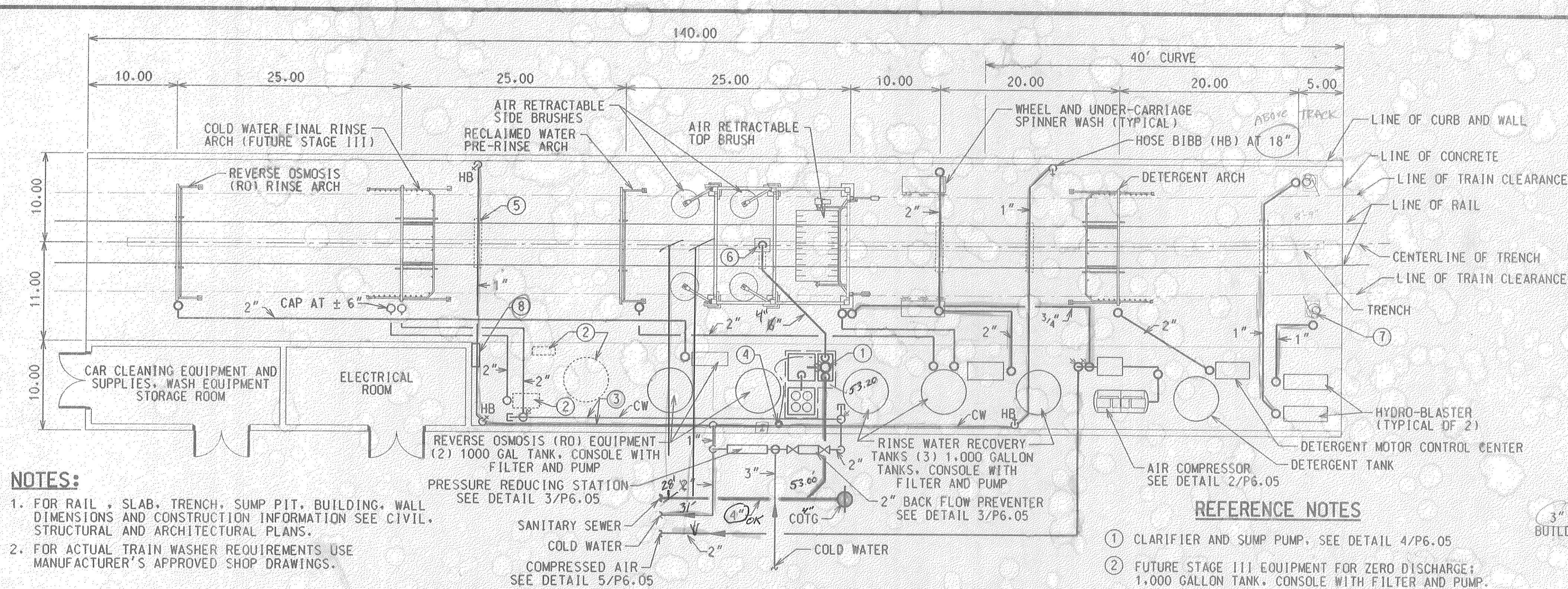
REV.	DATE	DESCRIPTION	BY	APP.
1	04/10/95	DESIGNED BY T. PUCKETT DRAWN BY M. BRADVICA CHECKED BY W. GIFFORD IN CHARGE R. OWEN DATE 04/10/95		

DESIGNED BY
T. PUCKETT
DRAWN BY
M. BRADVICA
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95



NORTH SAN DIEGO COUNTY TRANSIT DEVELOPMENT BOARD
OCEANSIDE - SAN DIEGO COMMUTER RAIL PROJECT
DMJM
DANIEL L. MANN, JOHN S. JOHNSON, & J. ROSENTHAL
275 WEST HOSPITALITY LANE, SUITE 314
SAN BERNARDINO CA 92408
(909) 805-3466
WILLIAM B. GIFFORD M. 025737
EXP. 03-31-97

STUART MESA MAINTENANCE FACILITY
SITE WORK
IFB 6-94-14B
PLUMBING DETAILS
FUELING ISLAND
SCALE AS SHOWN
DRAWING NO. P6.04



RECORD DOCUMENTS

4 SUMP PIT
NOT TO SCALE

PRELIMINARY
NOT FOR CONSTRUCTION

CONFORMED 06/05/95

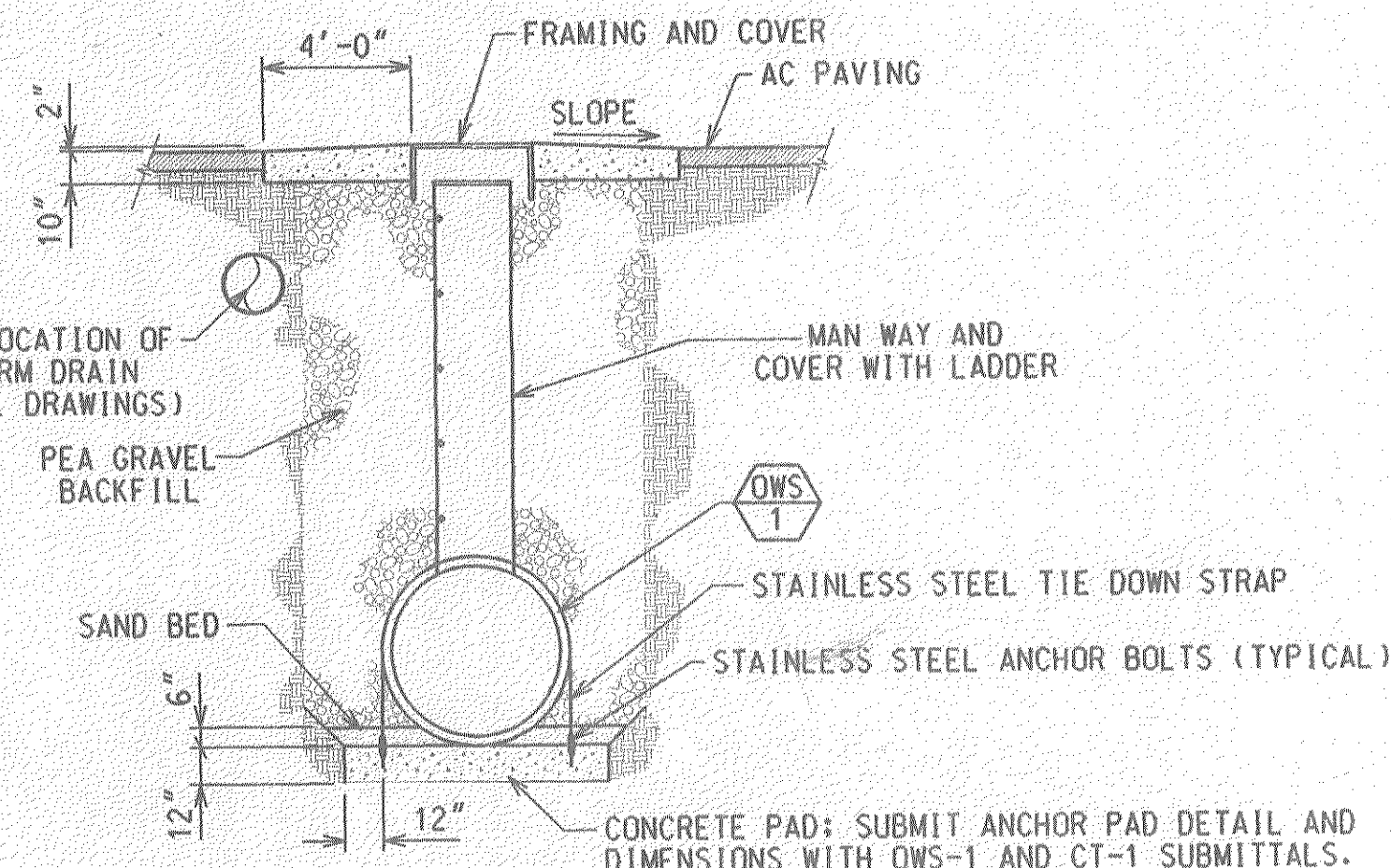
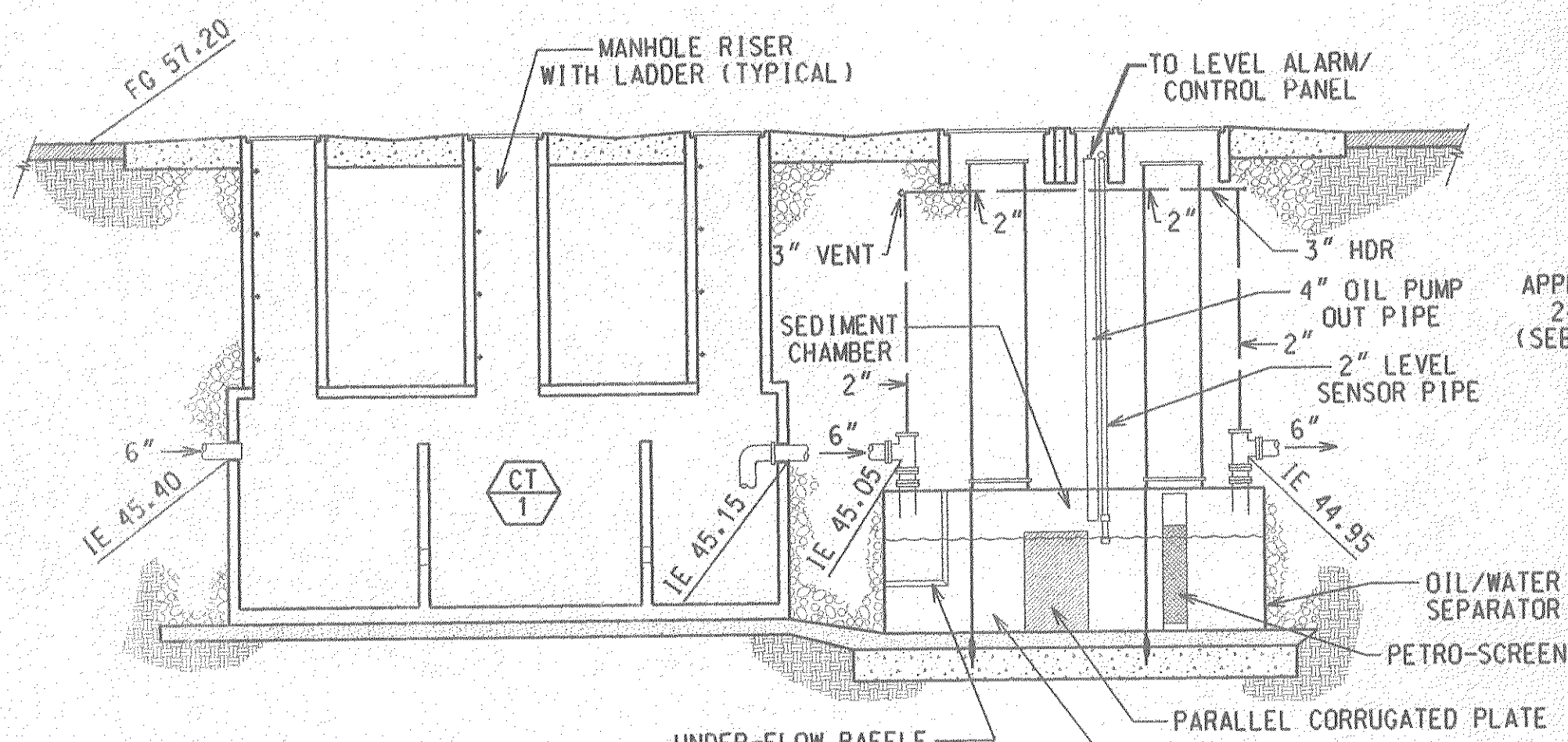
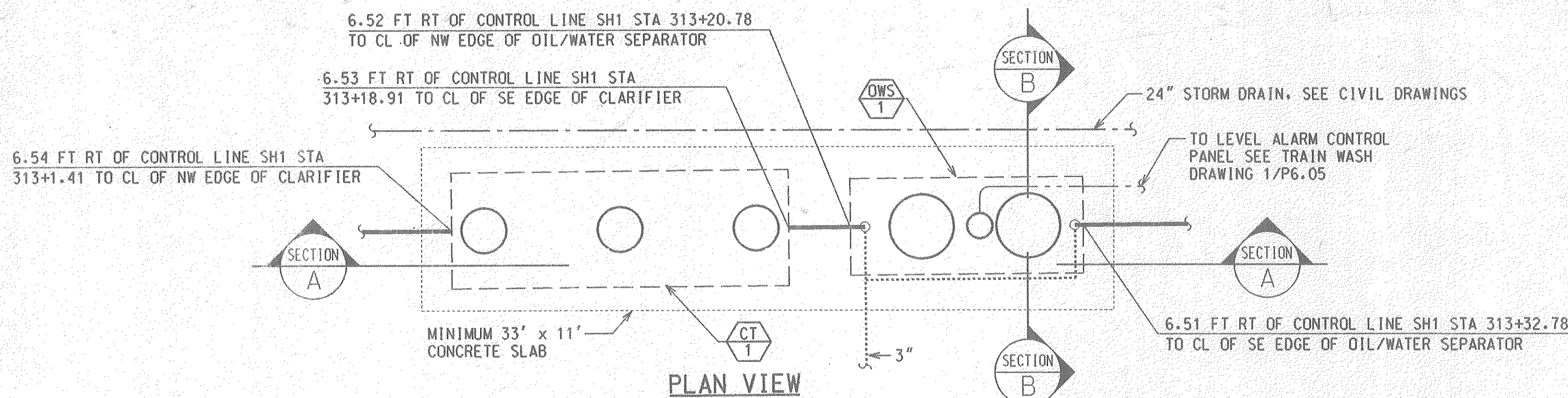
STUART MESA MAINTENANCE FACILITY
SITE WORK
IFB 6-94-14B

PLUMBING DETAILS TRAIN WASHER

SCALE AS SHOWN

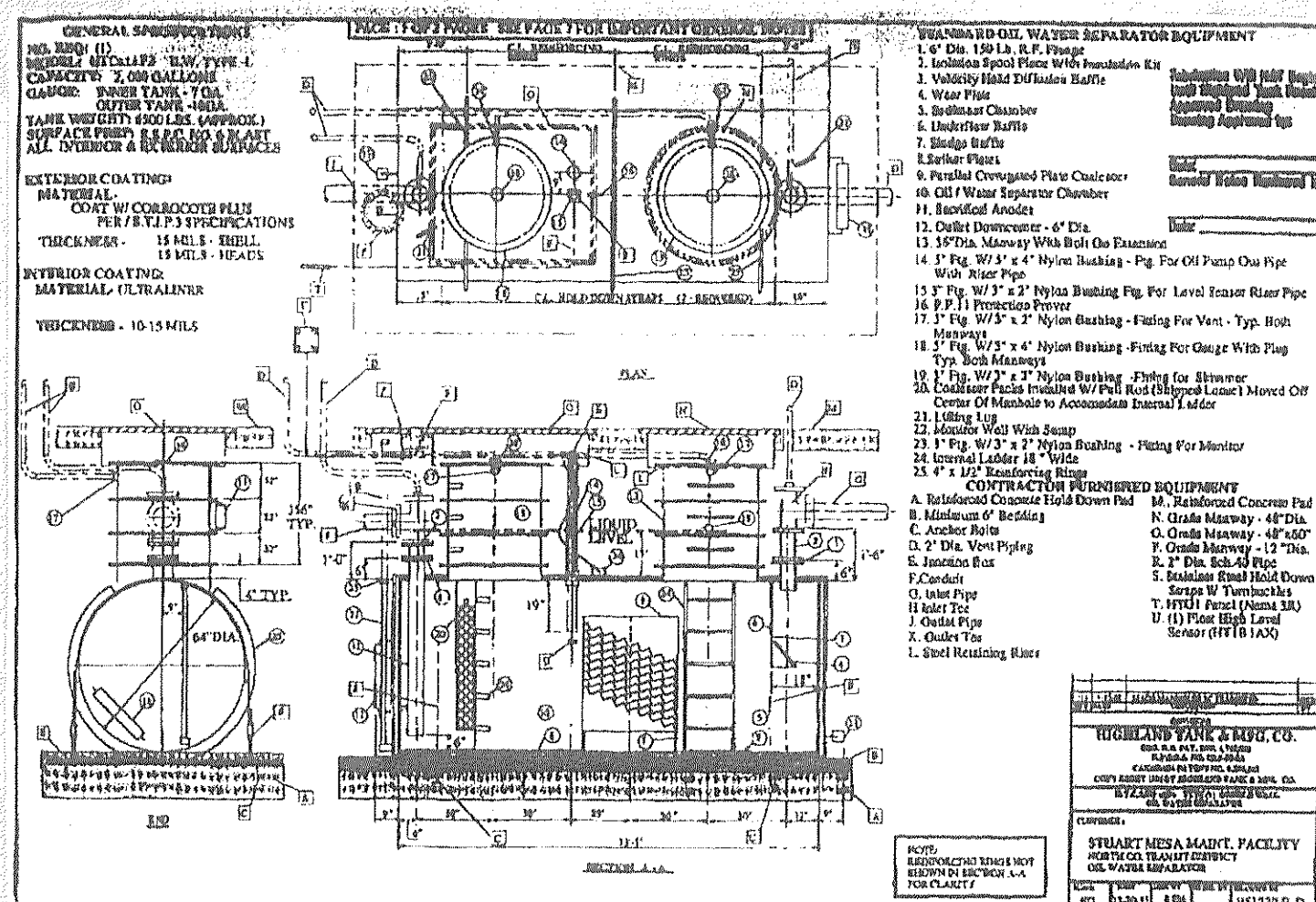
DRAWING NO. **P6.05**

3 OF 211



NOTE:
FIELD VERIFY CONSTRUCTION. CT-1 AND OWS-1
MAY MOVE WITH ENGINEERING REVIEW.
ALL MANWAYS SHALL BE TRAFFIC WEIGHT CONSTRUCTION.

SECTION A-A
MANWAYS CHANGED TO 36"
1 CLARIFIER AND OIL/WATER SEPARATOR
SCALE: 1/4" = 1'-0"



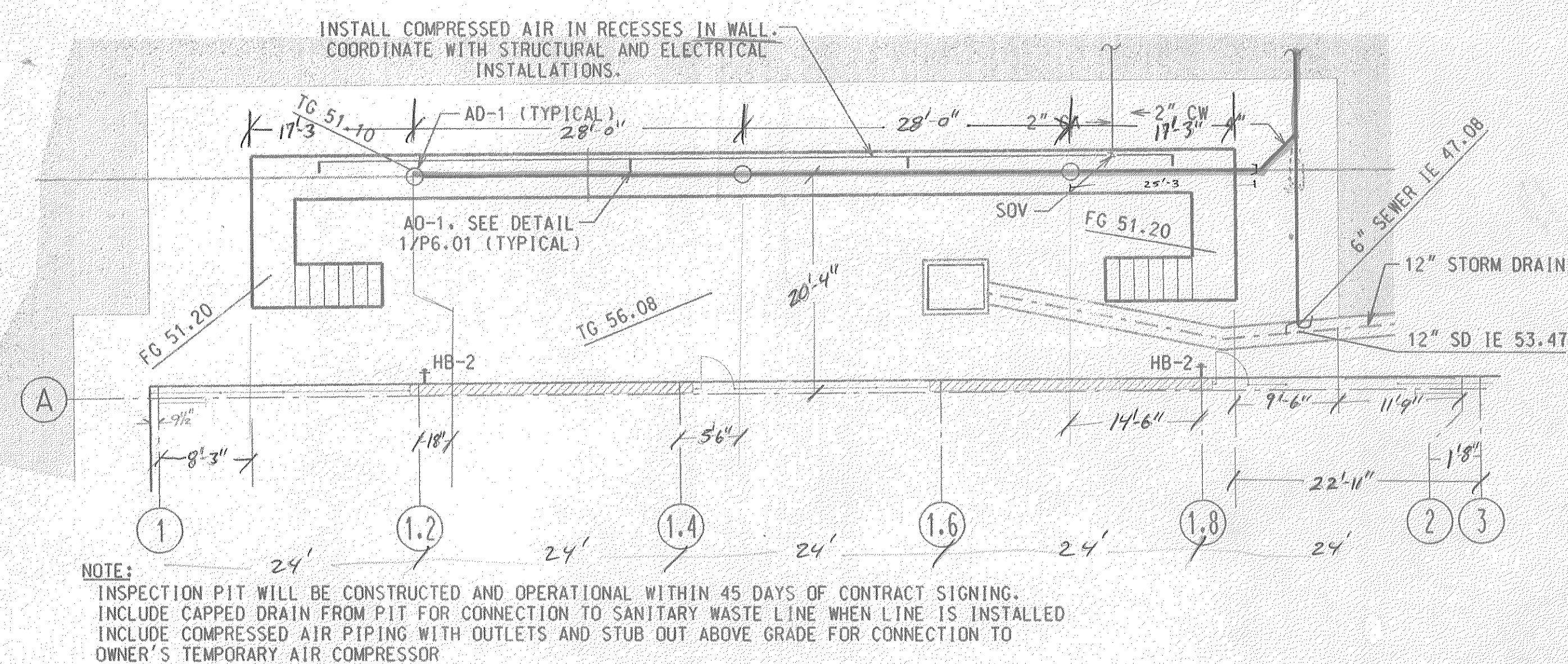
CHANGE ORDER EVALUATION	
DATE:	Thursday, February 08, 1996
AUTHOR:	Lawrence Kollath, Jr.
PROJECT:	Stuart Mesa Maintenance Facility, IFB 6-94-14B
CONTRACTOR:	M. A. Mortenson Company
CO REQUEST #:	6
TITLE:	Enlarge Separator Manways
REQUESTED AMOUNT: \$	6,285
APPROVED AMOUNT: \$	6,285
REQUESTED TIME EXT:	0 days
APPROVED TIME EXT:	0 days

DISCUSSION
Contract documents specified an oil/water separator with 24 inch manways for access to the water separator for maintenance. The top of the oil/water separator is located approximately 14 feet below grade. It is extremely difficult for a person to fit and descend 13 feet through a 24 inch wide manway.

Various alternatives were discussed with DMJM and the oil/water separator manufacturer such as using two separators closer to the source of waste which would result in a location closer to the top of grade (less deep) and/or installing a lift station pump in front of the separator to allow raising the separator closer to the surface. These options were rejected for technical/construction reasons.

I discussed the situation with Tom Gallagher. He said that he would be very reluctant to ask a worker to descend that depth with a 24 inch manway for safety reasons. If something happened, how could the person be removed. I discussed the situation with Robert Duran, he agreed that NCTD should issue a change directive to purchase a separator with 36 inch manways. The separator with the 36 inch manway is also larger providing increased capacity and consequently some savings in maintenance.

Based on the above, Field Work Directive #028 was issued to purchase a separator with 36 inch manways.



NOTE:
INSPECTION PIT WILL BE CONSTRUCTED AND OPERATIONAL WITHIN 45 DAYS OF CONTRACT SIGNING. INCLUDE CAPPED DRAIN FROM PIT FOR CONNECTION TO SANITARY WASTE LINE WHEN LINE IS INSTALLED. INCLUDE COMPRESSED AIR PIPING WITH OUTLETS AND STUB OUT ABOVE GRADE FOR CONNECTION TO OWNER'S TEMPORARY AIR COMPRESSOR.

2 INSPECTION PIT
SCALE: 1" = 10'

RECORD DOCUMENTS

CONFORMED 06/05/95

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3

REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED BY
T. PUCKE
DRAWN BY
M. BRADY
CHECKED BY
W. GIFFORD
IN CHARGE
R. OWEN
DATE
04/10/95

COUNTY TRANSIT DEVELOPMENT BOARD
SAN DIEGO COMMUTER RAIL PROJECT
DMJM
DANIEL, MANN, JOHNSON, & MENDENHALL
275 WEST HOSPITALITY LANE, SUITE 314
SAN BERNARDINO CA 92408
(909) 889-3400
4/10/95
WILLIAM B. GIFFORD M. 025737
EXPIRES 3-31-97

STUART MESA MAINTENANCE FACILITY
SITE WORK
IFB 6-94-14B
PLUMBING DETAILS
INSPECTION PIT, CLARIFIER AND
OIL/WATER SEPARATOR

SCALE
AS SHOWN
DRAWING NO.
P6.06