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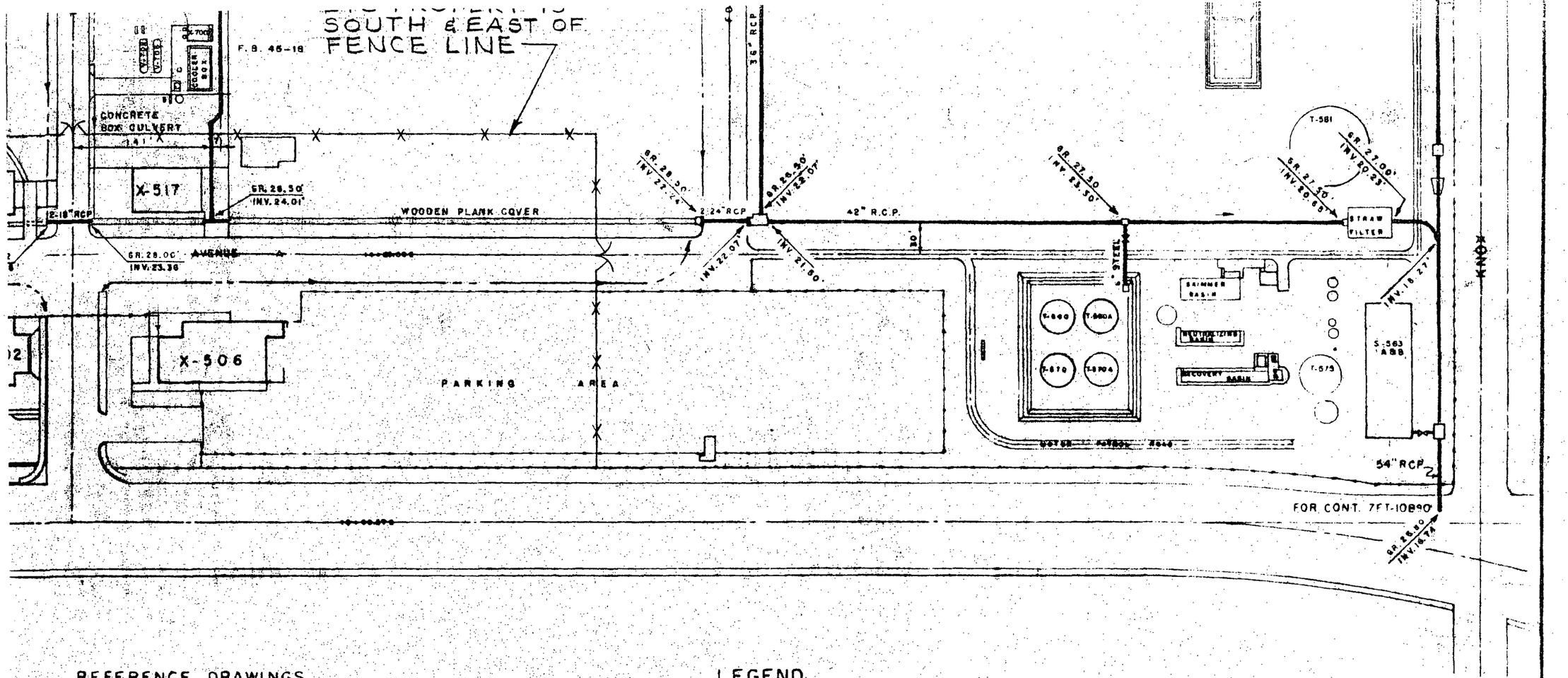


REFERENCE DRAWINGS

60 TRACK DRAINS AT R.R. PLANT GATE.
59 TRACK DRAINS AT 2nd ST.
58 " " " 3rd "
57 " " " 4th ".
52 EFFLUENT FLUME
55 TANK FARM DIKE DRAIN
54 AVE. B & 2nd ST. CULVERT.
53 400-475 AREAS STORM DRAINS.
52 600 AREA SPHERES DRAINAGE
25 620 AREA SPHERES - DRAINAGE.
51 EAST TANK FARM DRAIN.
49 100-150 AREA STORM DRAINS.
88 RESEARCH PILOT PLANT DRAINS
48 200-300 AREAS STORM DRAINS
47 WATER TREATING AREA DRAINAGE.
85 STORM DRAINAGE EFFLUENT BASIN.
69 100 SECT. CHANGES
481 S-563 SETTLING BASIN

LEGEND

OPEN DITCH FLOW LINE
UNDERGROUND LINES
CONCRETE TRENCH
GR. = APPROX. GROUND GRADE
INV. = INVERT ELEV. OF PIPE
FLOOR DRAIN
CATCH BASIN
(A) RAIN WATER DIVERSION VALVE

TORRANCE
SS-0004913

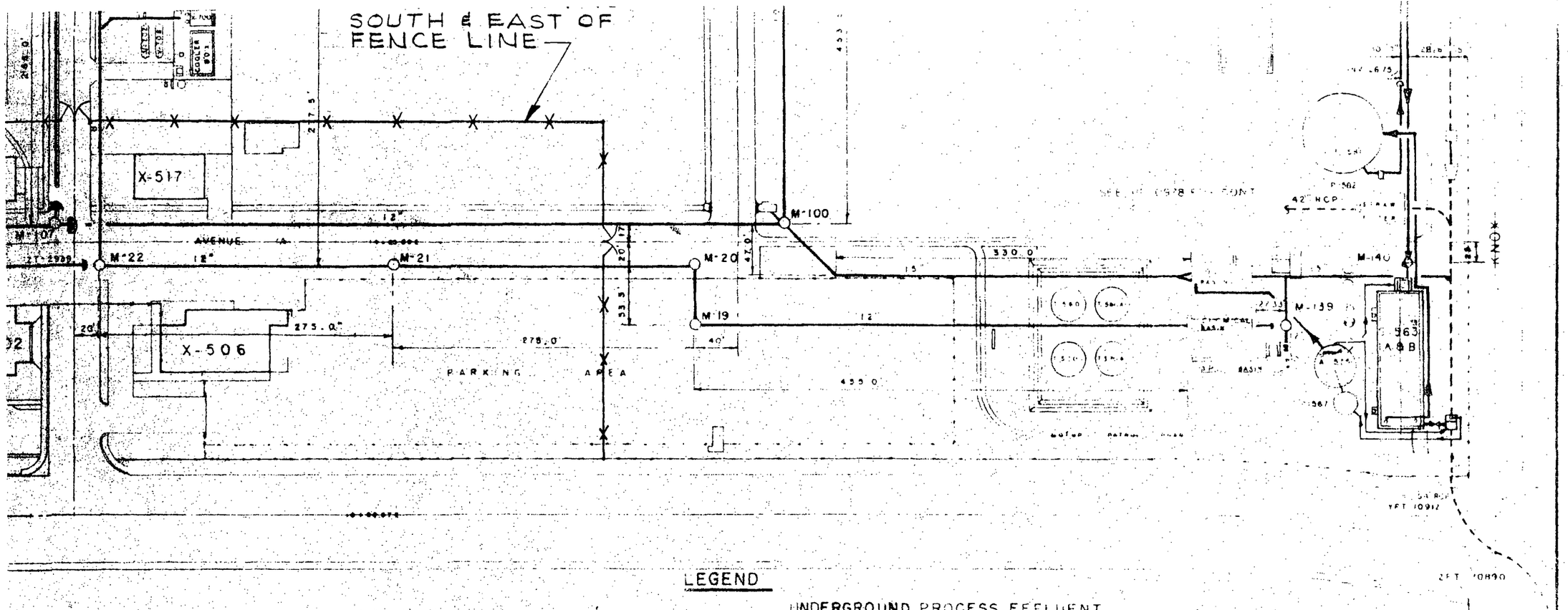
MARK	DATE	DESCRIPTION	APPROVED
LIST OF CHANGES			

SHELL DEVELOPMENT COMPANY
19821 S. HAMILTON ST. LOS ANGELES

ELASTOMER TECHNICAL CENTER
STORM DRAINS
SYSTEM MAP

DRAWN BY: R. M. OCHOA	CHIEF TECH.:
CHIEF DRAFT	DEPT. MGR.:
JOB ENGR.	ASST. SUPT.:
CHIEF ENGR.:	MANAGEMENT:
DATE: 11-13-72	YT-15952
SCALE:	

SFUND RECORDS CTR
2141266 1 OF 7



LEGEND

- UNDERGROUND PROCESS EFFLUENT
- UNDERGROUND STORM DRAINS
- OIL & CHEM. MANHOLE (M-10)
- GR. = APPROX. GROUND ELEV.
- INV. = INVERT ELEV. OF PIPE
- LINE PLUGGED
- CATCH BASIN
- PUMPED PROCESS EFFLUENT TO DOMINGUEZ REFINERY

1. SYNTHETIC RUBBER COAGULATION AREA 10.M GALLONS PER DAY
2. SYNTHETIC RUBBER COAGULATION AREA 47M GALLONS PER DAY
3. COOLING TOWER BLOWDOWN 13M GALLONS PER DAY
4. BOILER PLANT BLOWDOWN 8.5M GALLONS PER DAY
5. ANALYTICAL & TESTING LABORATORY 15.5M GALLONS PER DAY

REFERENCE DRAWINGS

ZT-2939	SEWER SYSTEM
YT-7272	100 AREA SEWER DETAILS
YT-7271	100 AREA
YT-7295	180 AREA
YT-5294	RESEARCH X-505
WT-10428	RESEARCH PILOT PLANT
YT-792	400 AREA SEWER
FIELD BOOK 66	SEWER SURVEY
SS-62-5488	500 AREA OIL SEWER
FB 51-10	RECOVERY BASIN OUTLET
YT-2685	STORM DRAINAGE EFFLUENT BASIN
ZFT-10890	OFFSITE STORM DRAIN SEWERS
ZT-4[illegible]	6" VCP PLUGGED WEST OF X-504
YT-[illegible]	X-503 OIL SEWER CONNECTIONS
YT-[illegible]73	[illegible] AREA SEWER DETAILS
WT-4312	M-139
YT-6185	STYRENE, PROCESS & STORM
YT-[illegible]93	POLYMER [illegible] EFFLUENT
[illegible]	[illegible] EFFLUENT [illegible]
YT-4[illegible]	[illegible] 24" LINE
YT-1348	X-563 SETTLING BASIN
YT-[illegible]360	EFFLUENT FLOWSHEET

CAST CONCRETE MANHOLE SHAFT
REF. AMER. PIPE & CONSTR. CO.

BRICK LINED SHAFT & 5' [illegible] 0"
X 6" THICK CONCRETE BASE

4 - 5/8" REINF. ROD
12" O.C. BOTHWAYS

TORRANCE
SS-0004914

MARK	DATE	DESCRIPTION	APPROVED

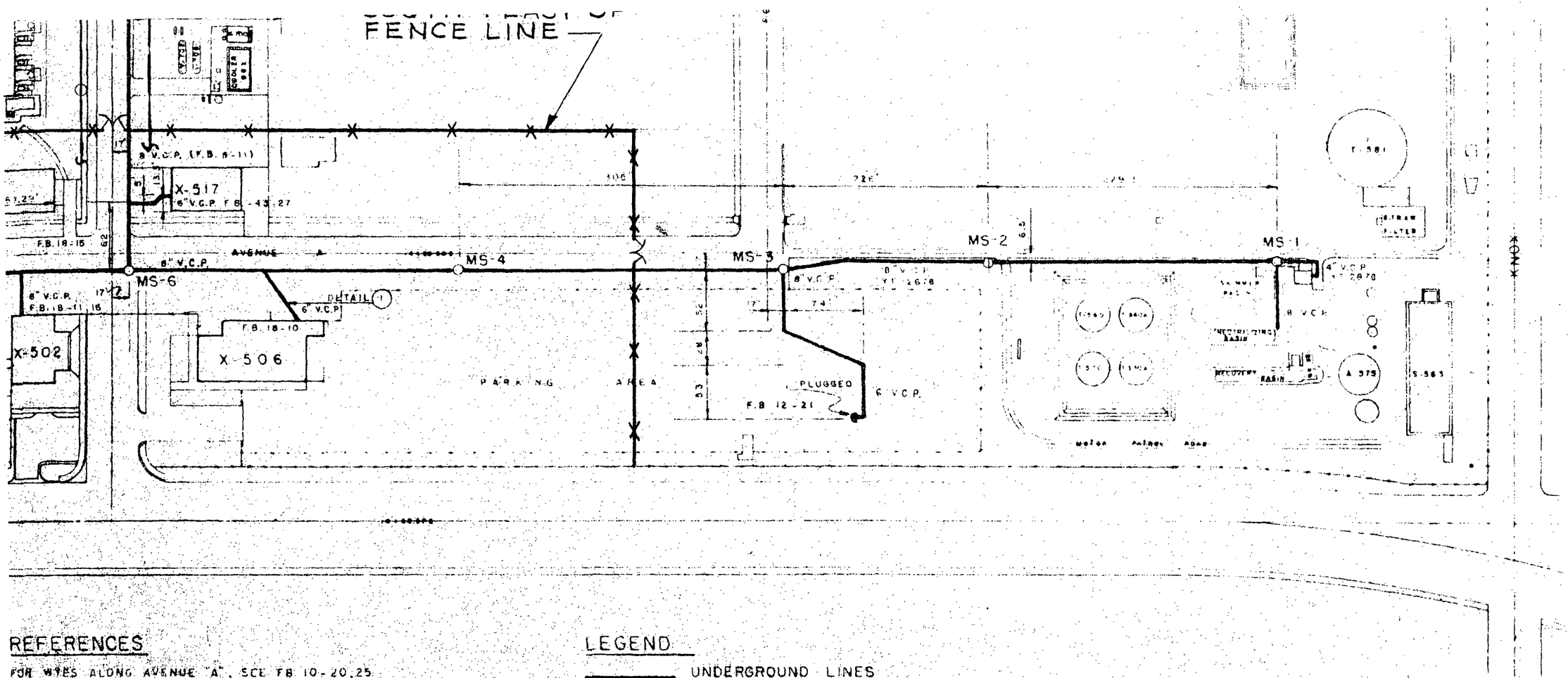
LIST OF CHANGES

SHELL DEVELOPMENT COMPANY
19821 S. HAMILTON ST. LOS ANGELES

ELASTOMER TECHNICAL CENTER
PROCESS SEWERS
SYSTEM MAP

DRAWN BY R.M. OCHOA	CHIEF ENGR.
CHIEF DRAFT	DEPT. MGR.
JOB ENGR.	ASST. SUPT.
CHIEF ENGR.	MANAGEMENT
DATE 11-13-72	YT-15953

SDHS # 2141266
2 OF 7



REFERENCES

FOR WYES ALONG AVENUE "A", SEE FB 10-20,25
FOR " " "B", SEE FB 8-26
FOR " " FIRST ST., SEE FB 6-11
FOR " " SECOND ST., SEE FB 10-15,16
FOR " " THIRD ST., SEE FB 8-11,13

COUNTY MAINS

IN CLEMENT AVE. ZF 10-46
IN DEL AMO BLVD. ZFT-11-65

LEGEND

UNDERGROUND LINES

MS- SANITARY MANHOLE

GR. - APPROX. GROUND ELEV.
INV - INVERT ELEV. OF PIPE

LINE PLUGGED

NOTE: SANITARY SEWER LINES WITHIN BUILDINGS AND EXTENDING 5'-0" OUTSIDE BUILDINGS ARE CAST IRON. SIZE AND MATERIAL SHOWN ON LINE

POTABLE WATER SUPPLY

INDUSTRIAL WATER SUPPLY

FIRE WATER SUPPLY

TORRANCE
SS-0004915

MARK	DATE	DESCRIPTION	APPROVED

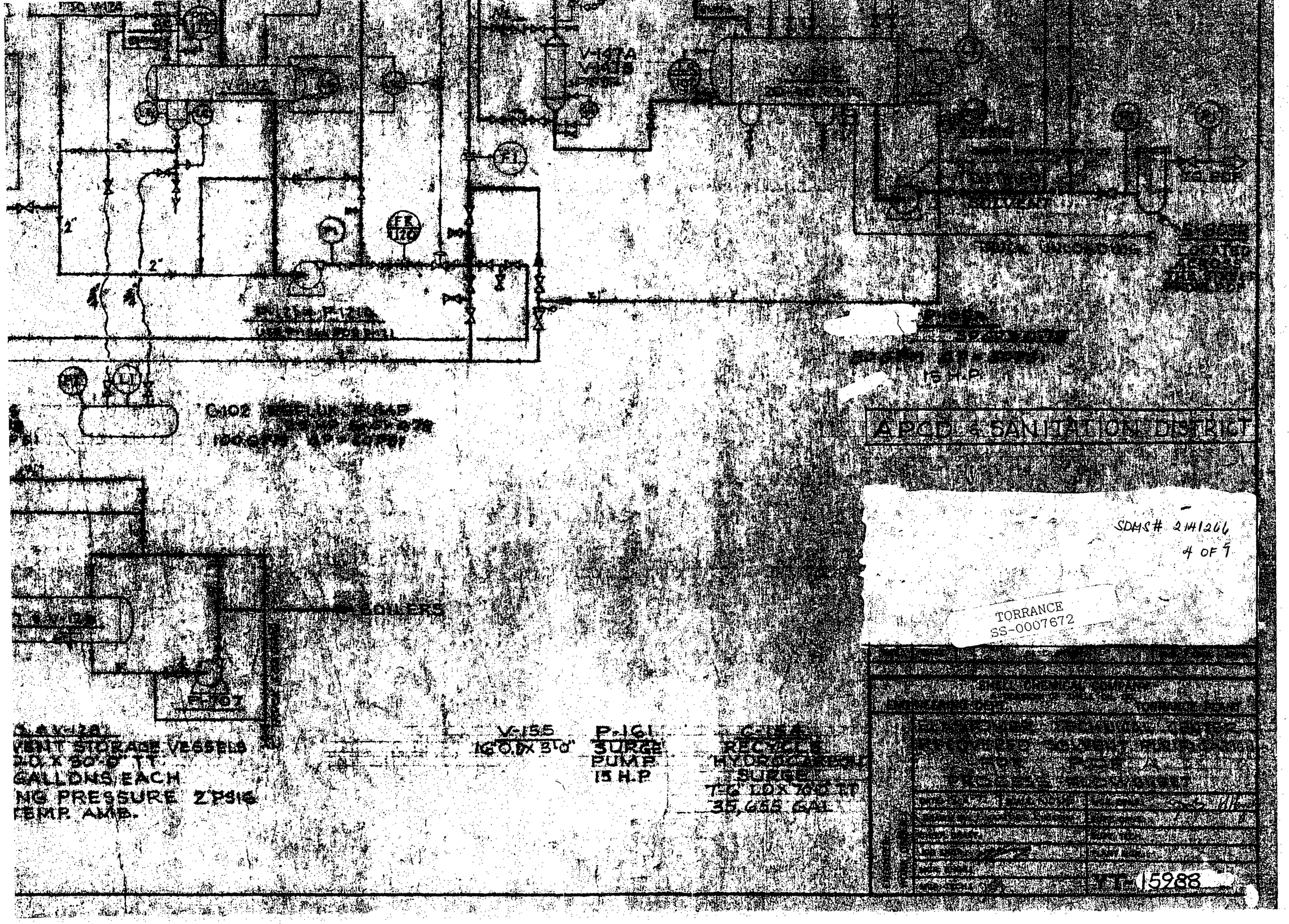
LIST OF CHANGES

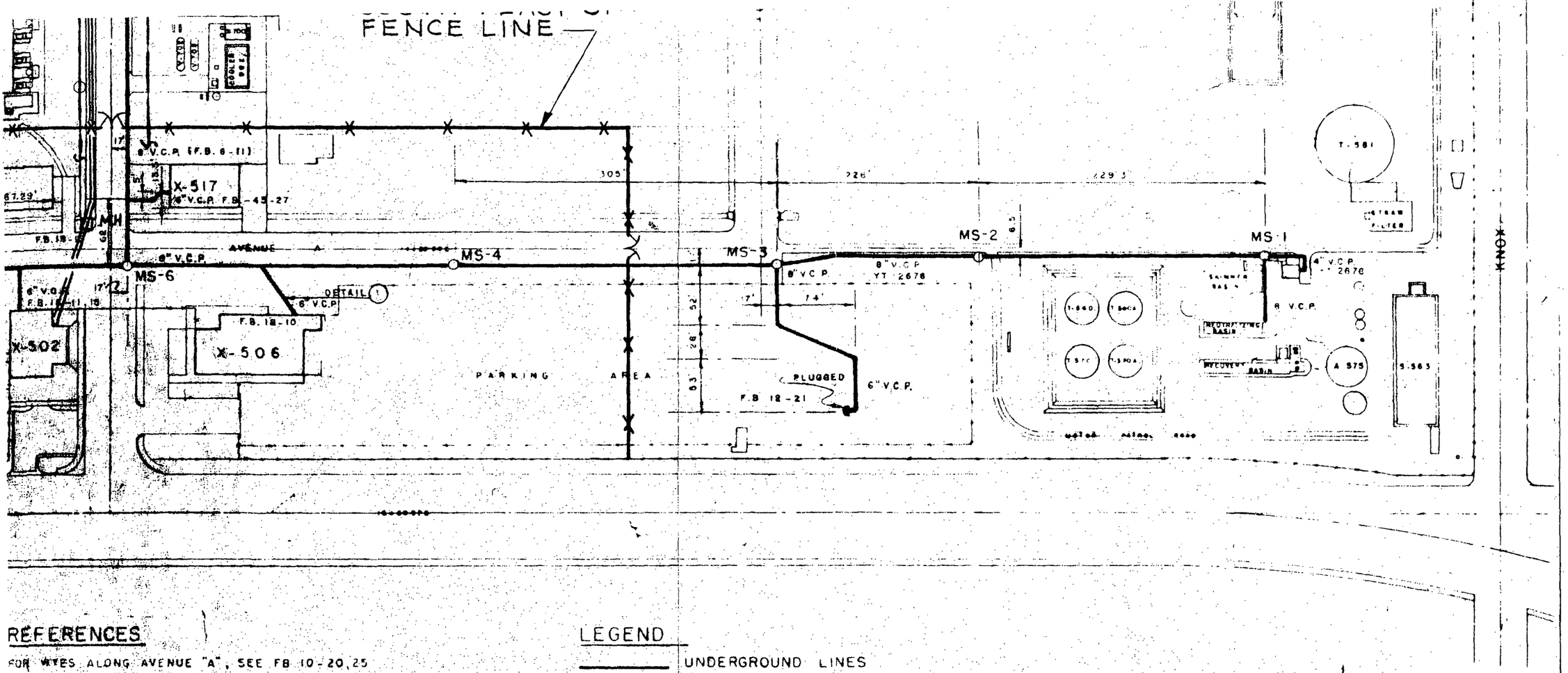
SHELL DEVELOPMENT COMPANY
19821 S. HAMILTON ST. LOS ANGELES

ELASTOMERS TECHNICAL CENTER SANITARY SEWERS SYSTEM MAP

DRAWN BY: R.M. OCHOA	CHIEF TECH.:
CHIEF DRAFT.:	DEPT. MGR.:
JOB ENGR.: Wm McC	ASST. SUPT.:
CHIEF ENGR.:	MANAGEMENT:
DATE: 11-13-72	

YT-15954
SDHQ # 2141266
3 OF 7


V-147A
V-147B
2"
2"
F-121A
C-102
BOILERS
P-107
V-128
VENT STORAGE VESSELS
GALLONS EACH
NG PRESSURE 2 PSIG
TEMP. AMB.
V-155
16'O.D. X 31'0"
P-161
SURGE
PUMP
15 H.P.
C-154
RECYCLE
HYDROCARBON
SURGE
35,655 GAL
15 H.P.
APCD & SANITATION DISTRICT
SDMS# 2141266
4 OF 9
TORRANCE
SS-0007672
TTT-15988



REFERENCES

FOR WYES ALONG AVENUE "A", SEE FB 10-20,25
FOR " " "B", SEE FB 8-26
FOR " FIRST ST., SEE FB 6-11
FOR " SECOND ST., SEE FB [illegible]
FOR " THIRD ST., SEE FB [illegible]

COUNTY MAINS

[illegible] IN VERMONT AVE. ZFT-10BP6
[illegible] DEL AMO BLVD. ZFT-10BP6

LEGEND

UNDERGROUND LINES

SANITARY MANHOLE
MS-

GR. = APPROX GROUND ELEV
INV = INVERT ELEV. OF PIPE

LINE PLUGGED

NOTE: SANITARY SEWER LINES WITHIN BUILDINGS AND EXTENDING 5'-0" OUTSIDE BUILDINGS ARE CAST IRON. SIZE AND MATERIAL SHOWN ON LINE.

POTABLE WATER SUPPLY

INDUSTRIAL WATER SUPPLY

FIRE WATER SUPPLY

NATURAL GAS

SHADED ITEMS IN ETC AREA ARE NOT IN SERVICE

SDMS# 2141266
5 OF 7

TORRANCE
SS-0007660

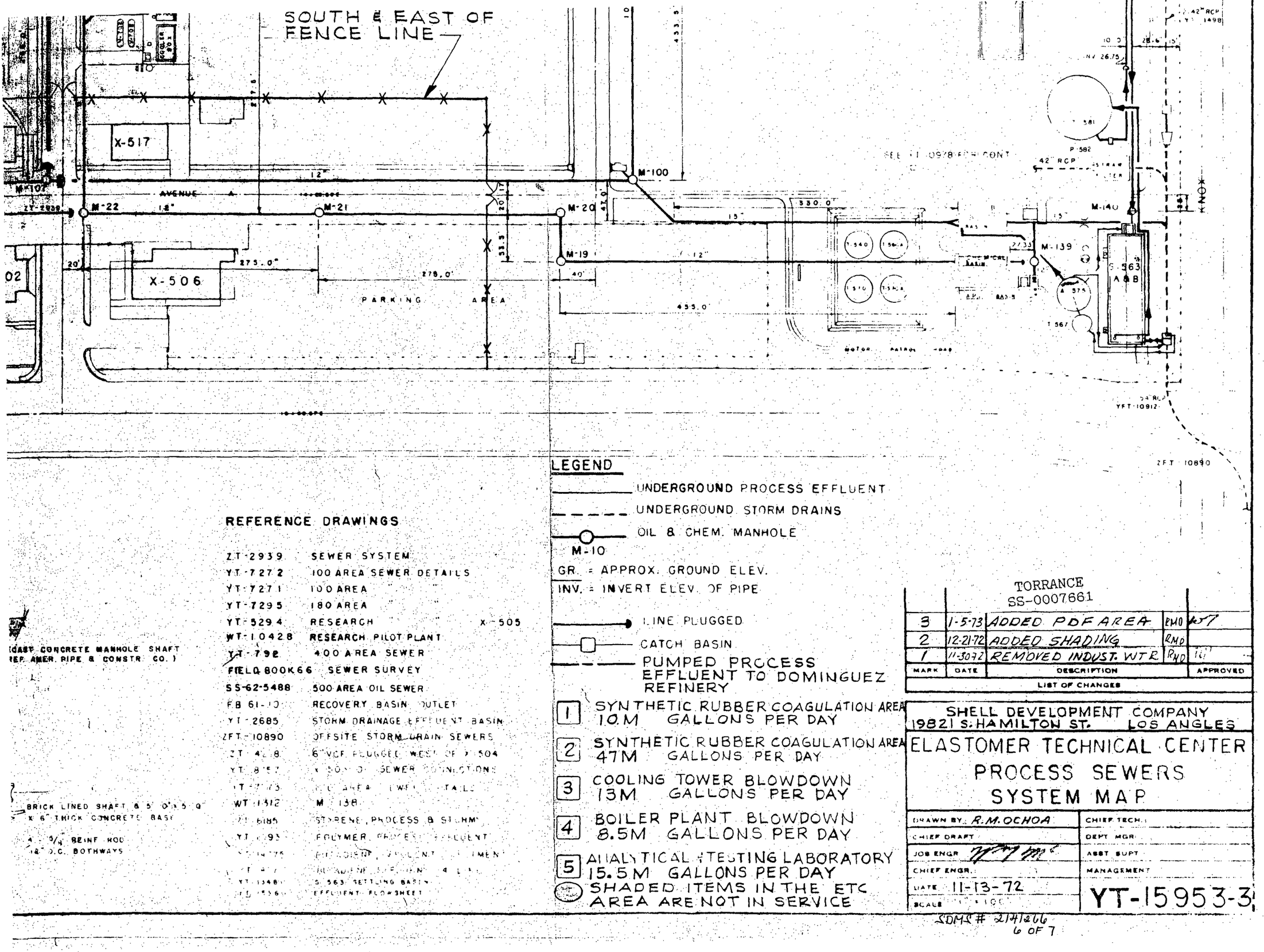
MARK	DATE	DESCRIPTION		APPROVED
3	1-8-73	ADDED PDF AREA	RHO	LOT
2	12-21-72	ADDED SHADING	RHO	
1	11-30-72	REVISED AS NOTED	RHO	

LIST OF CHANGES

SHELL DEVELOPMENT COMPANY
19821 S. HAMILTON ST. LOS ANGELES

ELASTOMERS TECHNICAL CENTER
SANITARY SEWERS
SYSTEM MAP

DRAWN BY R. M. OCHOA	CHIEF TECH.
CHIEF DRAFT	DEPT. MGR.
JOB ENGR. W. T. McC	ASST. SUPT.
CHIEF ENGR.	MANAGEMENT:
DATE 11-13-72	YT-15954-3
SCALE	



LEGEND

- UNDERGROUND PROCESS EFFLUENT
- UNDERGROUND STORM DRAINS
- OIL & CHEM. MANHOLE (M-10)
- GR. = APPROX. GROUND ELEV.
- INV. = INVERT ELEV. OF PIPE
- LINE PLUGGED
- CATCH BASIN
- PUMPED PROCESS EFFLUENT TO DOMINGUEZ REFINERY

1. SYNTHETIC RUBBER COAGULATION AREA 10.M GALLONS PER DAY
2. SYNTHETIC RUBBER COAGULATION AREA 47M GALLONS PER DAY
3. COOLING TOWER BLOWDOWN 13M GALLONS PER DAY
4. BOILER PLANT BLOWDOWN 8.5M GALLONS PER DAY
5. ANALYTICAL & TESTING LABORATORY 15.5M GALLONS PER DAY

SHADED ITEMS IN THE ETC AREA ARE NOT IN SERVICE

REFERENCE DRAWINGS

ZT-2939	SEWER SYSTEM
YT-7272	100 AREA SEWER DETAILS
YT-7271	100 AREA " "
YT-7295	180 AREA " "
YT-5294	RESEARCH " " X-505
WT-10428	RESEARCH PILOT PLANT
YT-792	400 AREA SEWER
FIELD BOOK 66	SEWER SURVEY
SS-62-5488	500 AREA OIL SEWER
FB 61-10	RECOVERY BASIN OUTLET
YT-2685	STORM DRAINAGE EFFLUENT BASIN
ZFT-10890	OFFSITE STORM DRAIN SEWERS
ZT-4[illegible]8	6" VCP PLUGGED WEST OF X-504
YT-8[illegible]57	X-504 & SEWER CONNECTIONS
YT-7[illegible]73	[illegible] AREA [illegible] DETAILS
WT-1312	M-138
ZT-6185	STYRENE, PROCESS & STORM
YT-[illegible]93	POLYMER PROCESS EFFLUENT
[illegible]-14775	[illegible] EFFLUENT [illegible]
[illegible]-47	[illegible] EFFLUENT [illegible]
YT-1348	S-563 SETTLING BASIN
YT-[illegible]56	EFFLUENT FLOWSHEET

CAST CONCRETE MANHOLE SHAFT (REF. AMER. PIPE & CONSTR. CO.)

BRICK LINED SHAFT & 5'-0" x 5'-0" x 6" THICK CONCRETE BASE

4 - 5/8" REINF. ROD @ 12" O.C. BOTHWAYS

TORRANCE
SS-0007661

MARK	DATE	DESCRIPTION		APPROVED
3	1-5-73	ADDED PDF AREA	RMO	
2	12-21-72	ADDED SHADING	RMO	
1	11-30-72	REMOVED INDUST. WTR.	RMO	

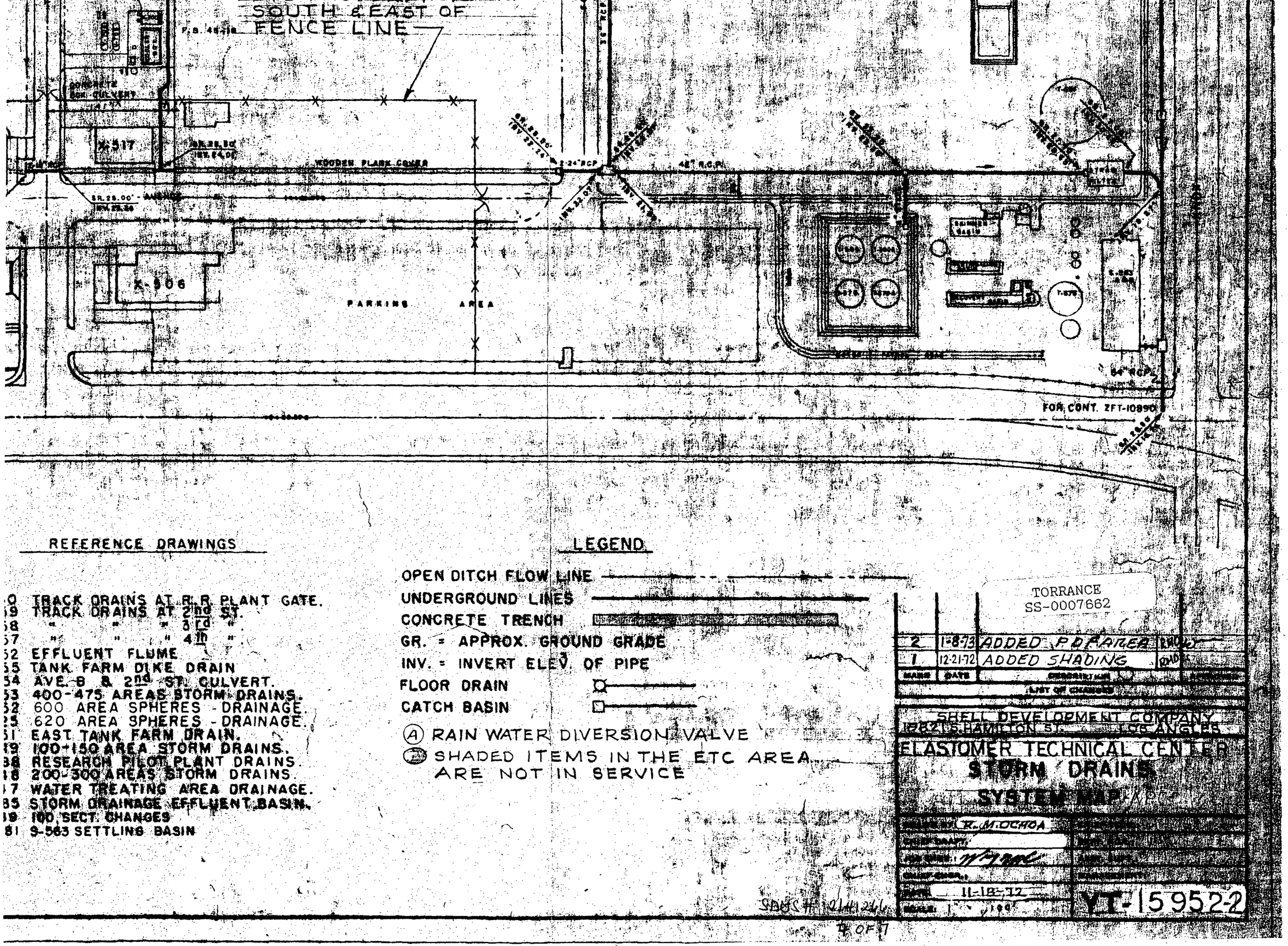
LIST OF CHANGES

SHELL DEVELOPMENT COMPANY
19821 S. HAMILTON ST. LOS ANGELES

ELASTOMER TECHNICAL CENTER PROCESS SEWERS SYSTEM MAP

DRAWN BY: R.M. OCHOA	CHIEF TECH.
CHIEF DRAFT	DEPT. MGR.
JOB ENGR.	ASST. SUPT.
CHIEF ENGR.	MANAGEMENT
DATE 11-13-72	YT-15953-3
SCALE	

SDMS # 2141266
6 OF 7



REFERENCE DRAWINGS

0	TRACK DRAINS AT R.R. PLANT GATE.
9	TRACK DRAINS AT 2nd ST.
8	" " " 3rd "
7	" " " 4th "
2	EFFLUENT FLUME
5	TANK FARM DIKE DRAIN
4	AVE. B & 2nd ST. CULVERT.
3	400-475 AREAS STORM DRAINS.
2	600 AREA SPHERES - DRAINAGE.
5	620 AREA SPHERES - DRAINAGE.
1	EAST TANK FARM DRAIN.
9	100-150 AREA STORM DRAINS.
8	RESEARCH PILOT PLANT DRAINS.
8	200-300 AREAS STORM DRAINS.
7	WATER TREATING AREA DRAINAGE.
5	STORM DRAINAGE EFFLUENT BASIN.
9	100 SECT. CHANGES
1	S-563 SETTLING BASIN

LEGEND

OPEN DITCH FLOW LINE
UNDERGROUND LINES
CONCRETE TRENCH
GR. = APPROX. GROUND GRADE
INV. = INVERT ELEV. OF PIPE
FLOOR DRAIN
CATCH BASIN
(A) RAIN WATER DIVERSION VALVE
(B) SHADED ITEMS IN THE ETC AREA ARE NOT IN SERVICE

TORRANCE
SS-0007662

MARK	DATE	DESCRIPTION	BY
2	1-8-73	ADDED P.D. PLANTER	R.M.O.
1	12-21-72	ADDED SHADING	R.M.O.

LIST OF CHANGES

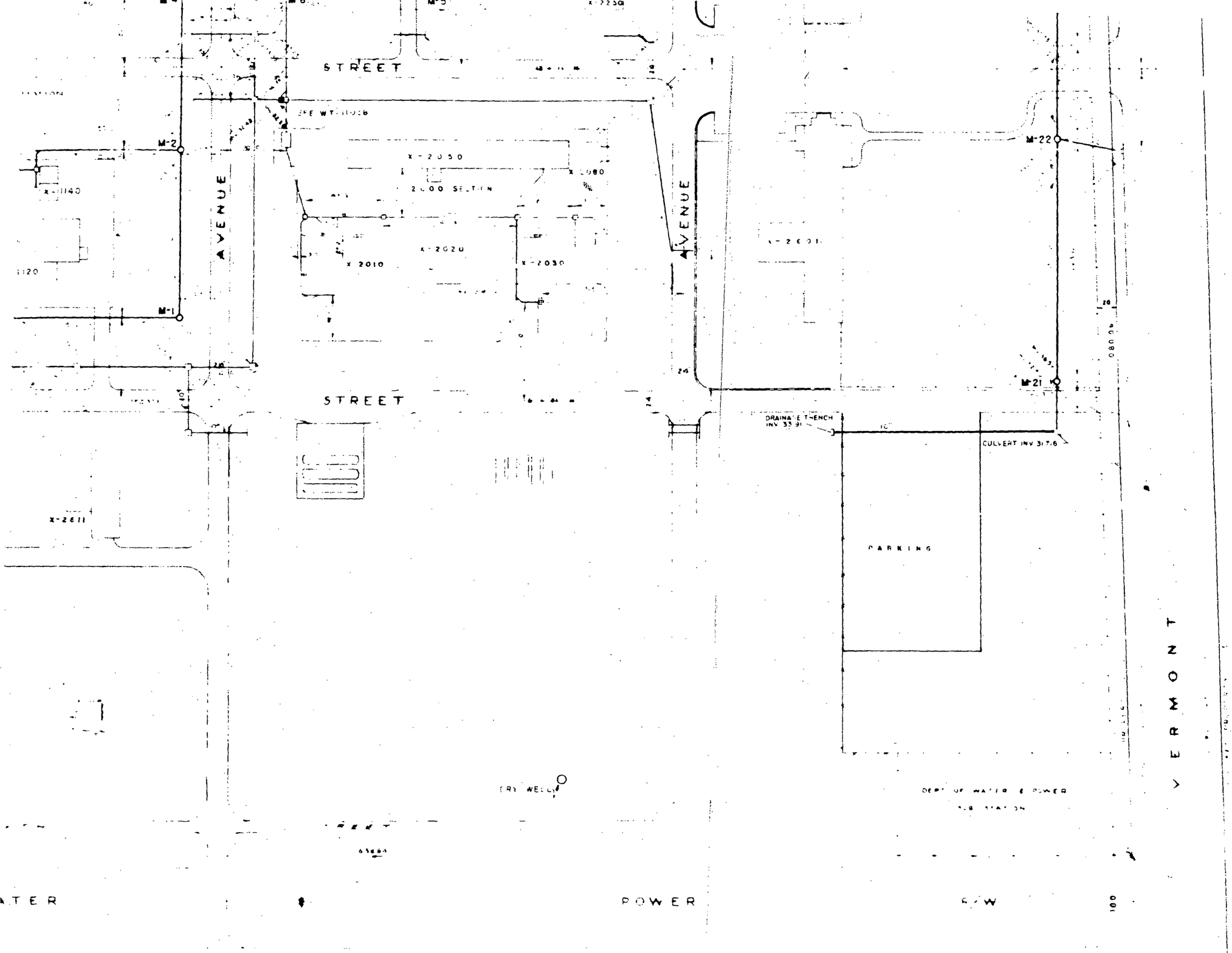
SHELL DEVELOPMENT COMPANY
12821 S. HAMILTON ST. LOS ANGELES
ELASTOMER TECHNICAL CENTER
STORM DRAINS
SYSTEM MAP

DRAWN: R.M. OCHOA
CHECKED:
DATE: 11-18-72
SCALE: 1" = 100'

YT-15952-2

SDMS # 2141266

7 OF 7



SCHEDULE OF MANHOLES

M.H. NO	ELEV COVER	INV. NORTH	INV. SOUTH	INV. EAST	INV. WE
1	37.50	8"-32.12			8"-32.0
2	37.50	8"-31.76	8"-31.76		8"-31.7
3	37.80			10"-31.75	10"-31.7
4	37.50		10"-31.35	10"-31.35	10"-31.3
5	36.70			10"-31.52	10"-31.5
6	37.40	12"-31.10	12"-31.10	10"-31.10	10"-31.1
7	37.80	12"-31.02	12"-31.02	8"-31.02	8"-31.0
8	39.90	10"-36.54	10"-35.38	10"-35.38	
9	38.00	6"-3[illegible].56		10"-31.56	10"-3[illegible]
10	37.50	6"-32.50			10"-32.
11	37.50	15"-30.78	12"-30.78	10"-30.78	10"-30
12	41.30		40.50	12"-40.50	8"-40
13	40.00	8"-31.17	6"-32.90	8"-31.17	
14	37.20	8"		8"-30.67	8"-30
15	37.70	18"-30.45	15"-30.45	8"-30.45	8"-30
16	41.80		6"-40.20	6"-38.30	
17	38.70	6"-33.00	18"-30.09	18"-30.09	
18	39.20			24"-29.92	18"-29
19	3[illegible].70			10"-30.24	10"-35
20	36.90		48"-28.04	48"-28.03	24"-2[illegible]
21	33.80	15"-31.50			12"-31
22	34.20	15"-31.08	15"-31.07	12"-31.18	
23	33.30	8"-30.30	18"-30.31	12"-30.58	12"-3[illegible]
24	34.60	21"-29.51	18"-29.70		12"-31
25	35.5	21"-28.76	21"-28.77		12"-21
26	35.40		21"-28.16	48"-27.22	48"-2

GR. = APPROX GROUND ELEV
INV. = INVERT ELEV. OF PIPE
■ = CATCH BASIN w/ SHEAR GATE

TORRANCE
SJ-0009911

MARK	DATE	DESCRIPTI[illegible]
1	10-70	ADDED 12" PROCESS C[illegible]

SDMS # 2141266 LIST OF CHANG[illegible]
1 OF 1