

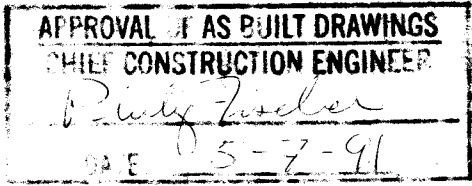
CONSTRUCTION PLANS
FOR
HILTON PLACE STORM DRAIN

HYDROLOGY DIVISION
PUBLIC WORKS DEPARTMENT
CITY OF ALBUQUERQUE



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- 5. SIERRA VISTA CHANNEL IMPROVEMENT AND STORM DRAIN INLET
- 6. DETAILS



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26	39	55	19	00	19	1								

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE								

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NOTE: RECORD DATA IS NOTED WITH FREE HAND LETTERING.

9-5-90
Thomas O. Isaacson

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

APPROVED FOR CONSTRUCTION

Russell B. Linder
9-17-90

PROJECT NO. 3955.90

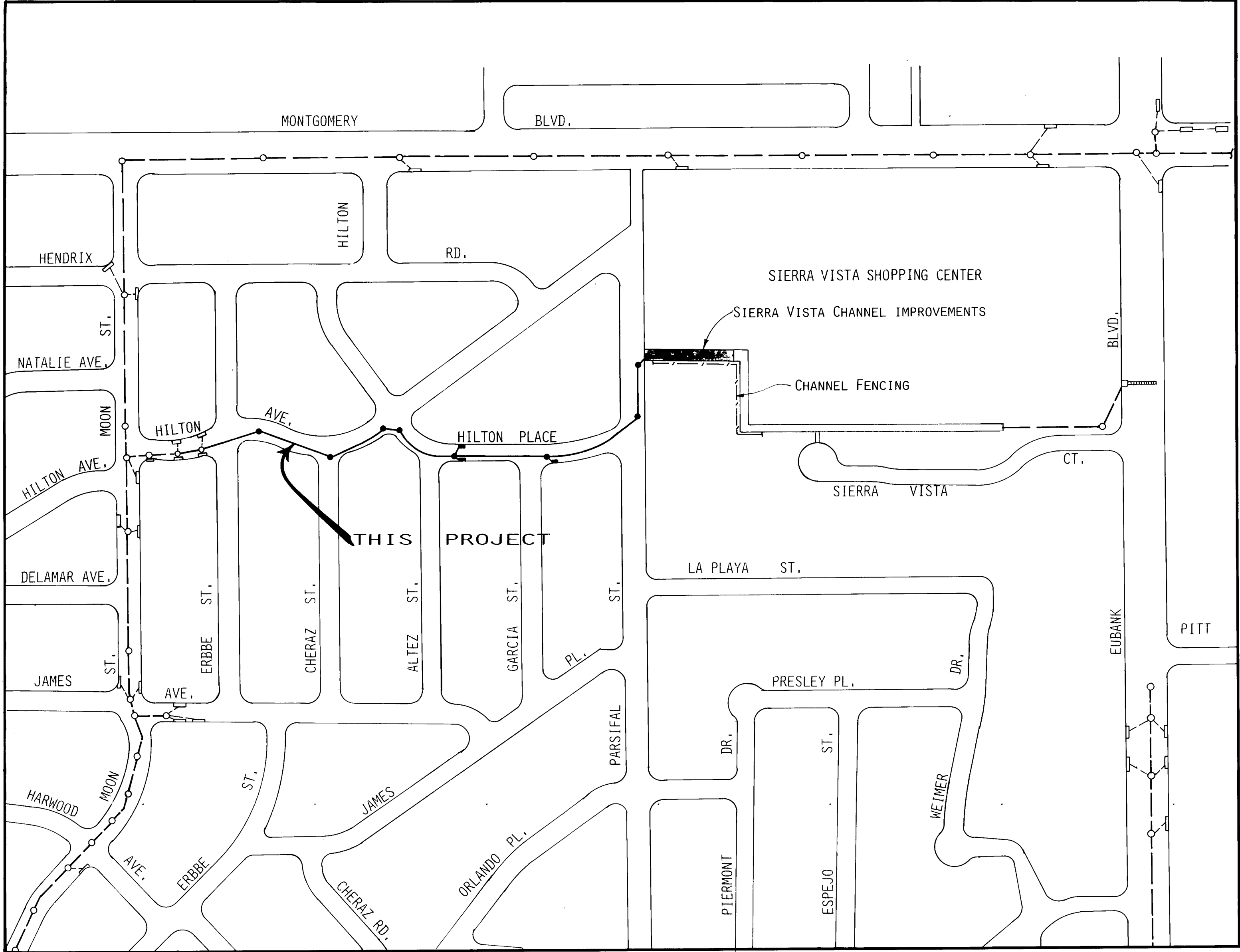
SHEET 1 OF 6

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
3. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
4. WATER SYSTEMS SHALL BE CONTACTED @ 857-8200, 2 WEEKS PRIOR TO ANY SHUT-OFFS. ALL SHUT-OFFS SHALL BE AS PER SECTION 18.3 OF THE GENERAL CONDITIONS.
5. CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES AND SERVICES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK OR REPLACING AT THE CONTRACTOR'S OPTION SHALL BE INCIDENTAL TO CONSTRUCTION.
6. TRENCH WIDTHS FROM THE BOTTOM OF THE PIPE TO A POINT 12" ABOVE THE PIPE SHALL BE A MINIMUM OF THE PIPE OUTSIDE DIAMETER PLUS 16 INCHES AND A MAXIMUM OF THE PIPE OUTSIDE DIAMETER PLUS 24 INCHES. ALL TRENCHES TO CONFORM TO O.S.H.A. REQUIREMENTS FOR CLASS "C" SOIL.
7. THE BEDDING CLASS FOR STORM DRAIN LINES SHALL BE CLASS C.
8. GRADED ACCESS TO RESIDENTS ACROSS CONSTRUCTION ZONE SHALL BE MAINTAINED DURING CONSTRUCTION. THE MAXIMUM DURATION OF IMPASSE TO ANY RESIDENCE SHALL BE THREE DAYS.
9. REPAVING SHALL BE ACCOMPLISHED IN STAGES TO ELIMINATE UNPAVED STREETS FOR EXCESSIVE PERIODS AND SHALL CONFORM TO THE FOLLOWING PHASES: 1) HILTON AVENUE, 2) HILTON PLACE, AND 3) PARSIFAL STREET.
10. ALL CONCRETE USED FOR EXPOSED SURFACE (CURB & GUTTER, SIDEWALKS, DRIVEPADS, ETC.) SHALL MEET THE REQUIREMENTS OF SECTION 602 OF THE SPECIFICATIONS.
11. TRENCHING, PIPE LAYING, AND BACKFILLING ARE LIMITED TO A TOTAL, COMBINED LENGTH OF 150 FEET DURING CONSTRUCTION.
12. CONTRACTOR TO PROVIDE A DETAILED CONSTRUCTION SEQUENCING PLAN TO THE CITY BARRICADE OFFICE PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. CALL 768-2551 (CONSTRUCTION COORDINATOR) FOR DETAILS CONCERNING MATERIALS TO BE SUBMITTED.
13. DEPTHS SHOWN ON PROFILE FOR EXISTING UTILITIES ARE ASSUMED AND ACTUAL DEPTHS MAY VARY SUBSTANTIALLY.

WARNING - EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.



LOCATION MAP
SCALE: 1"=200'

14. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS FOR RELOCATION AND REGRADING OF EXISTING UNDERGROUND UTILITIES AND SUPPORT OF ALL OVERHEAD POWER AND LIGHT POLES NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. ALL REQUIRED COORDINATION AND UTILITY RELOCATION, REGRADING AND POLE SUPPORTING SHALL BE INCIDENTAL COSTS ACCOMPLISHED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND SUBMIT TO THE PROJECT ENGINEER FOR APPROVAL.
16. PAVING REPLACEMENT FOR PAVEMENT CUTS FOR UTILITIES AND STORM DRAINS SHALL CONFORM TO STANDARD DRAWING NO. 2465 FOR RESIDENTIAL STREETS WITH THE PAVING SECTION CONSISTING OF A 4½" THICKNESS OF 1500 LB. STABILITY ASPHALTIC CONCRETE BASE COURSE AND A 1½" THICKNESS OF 1800 LB. ASPHALTIC CONCRETE SURFACE COURSE.
17. CONSTRUCTION ACCESS TO ALL WORK ON THE SIERRA VISTA CHANNEL IS LIMITED TO THE AREAS INSIDE THE EXISTING CHANNEL SIDEWALLS.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 39 55 90 02 91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: HILTON PLACE STORM DRAIN LOCATION MAP & GENERAL INFORMATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water	R.W. Kane	9-10-90
Trans. Dev.	R. Kane	9-11-90	Waste Water	R.W. Kane	9-10-90
Hydrology	Steve Bobay	9/13/90			
PROJECT NO.	3955.90	MAP NO.	G-20	SHEET	2 OF 6

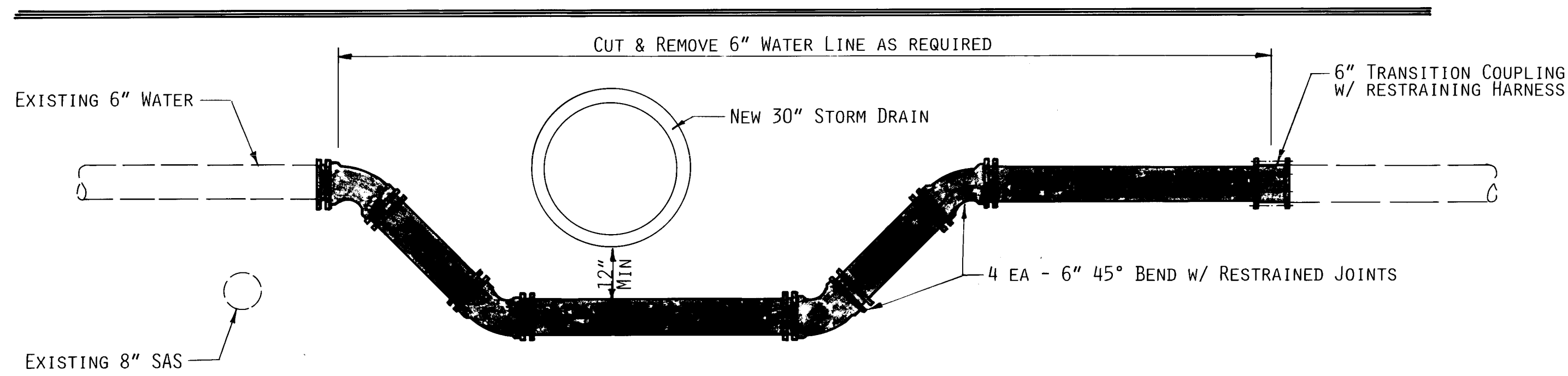
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGNED BY TOI		CHECKED BY TOI	
CONTRACTOR	SUNDANCE	MECHANICAL		NO.	DATE			NO.	DATE	DESIGNED BY	TOI	DATE	9/90
STAKED BY	CITY SURVEILLANCE	DATE	1/91							DRAWN BY	NV	DATE	9/90
FIELD ACCEPTANCE BY	D. J. HILL	DATE	4/91							CHECKED BY	TOI	DATE	9/90
DRAWINGS	CONNECTION BY	T. HANCOCK	DATE	4/91									
MICRO-FILM INFORMATION													
RECORDED BY													
DATE													
NO.													



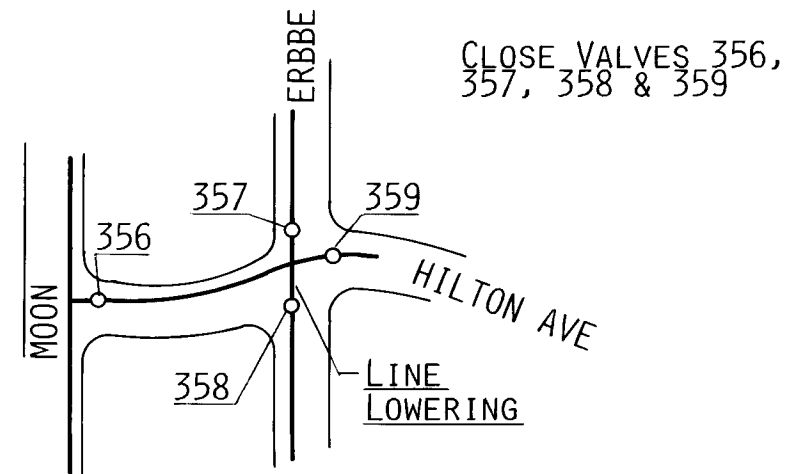
Robert W. Kane
9-5-90

WARNING

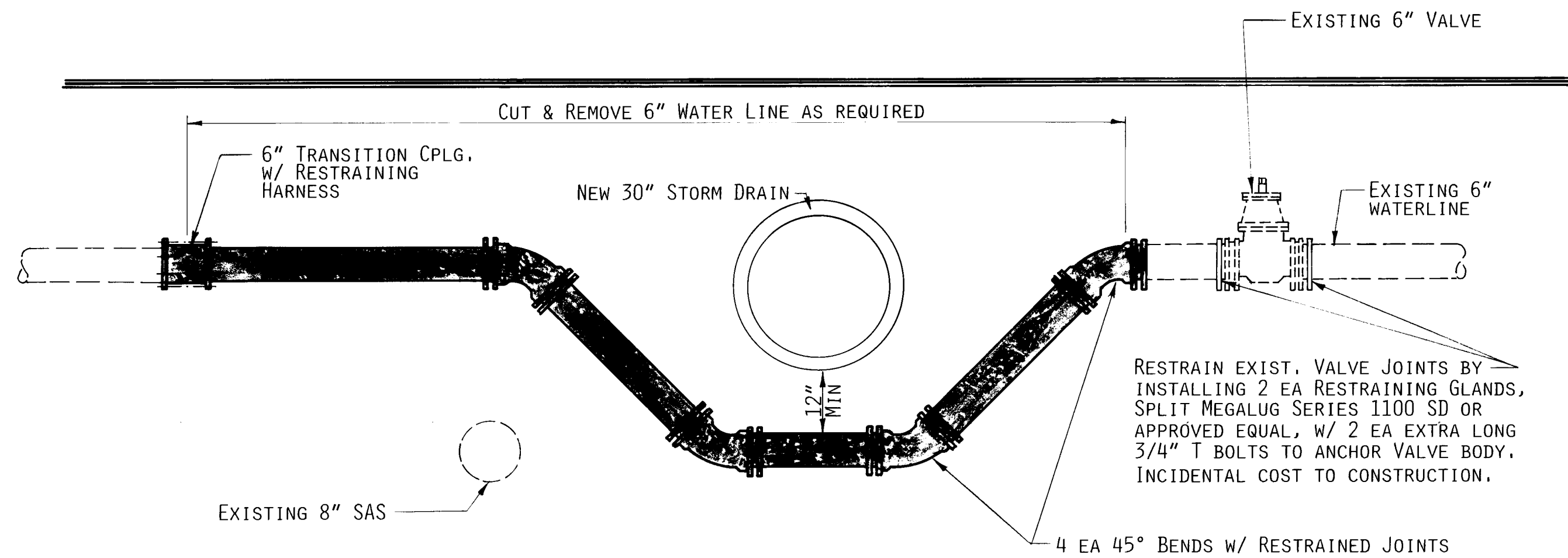
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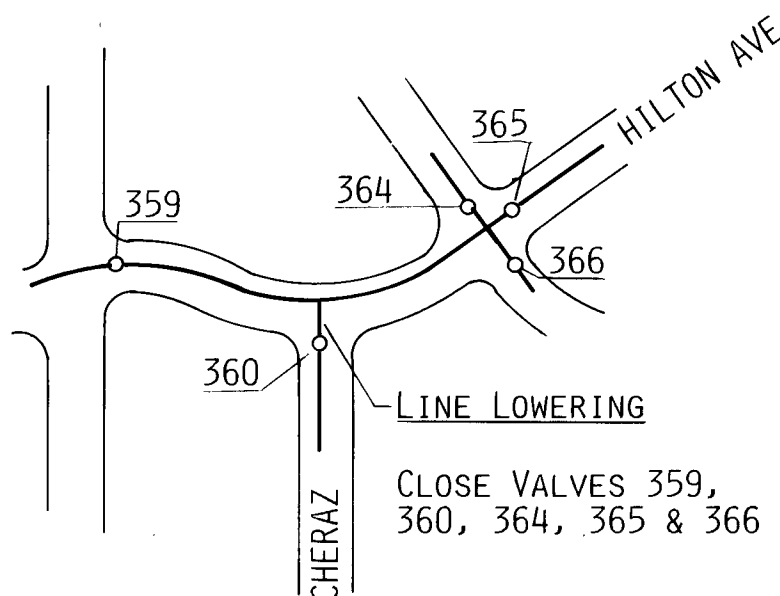
WATERLINE LOWERING - STA 2+55±
SCALE: 1/2"=1'-0"



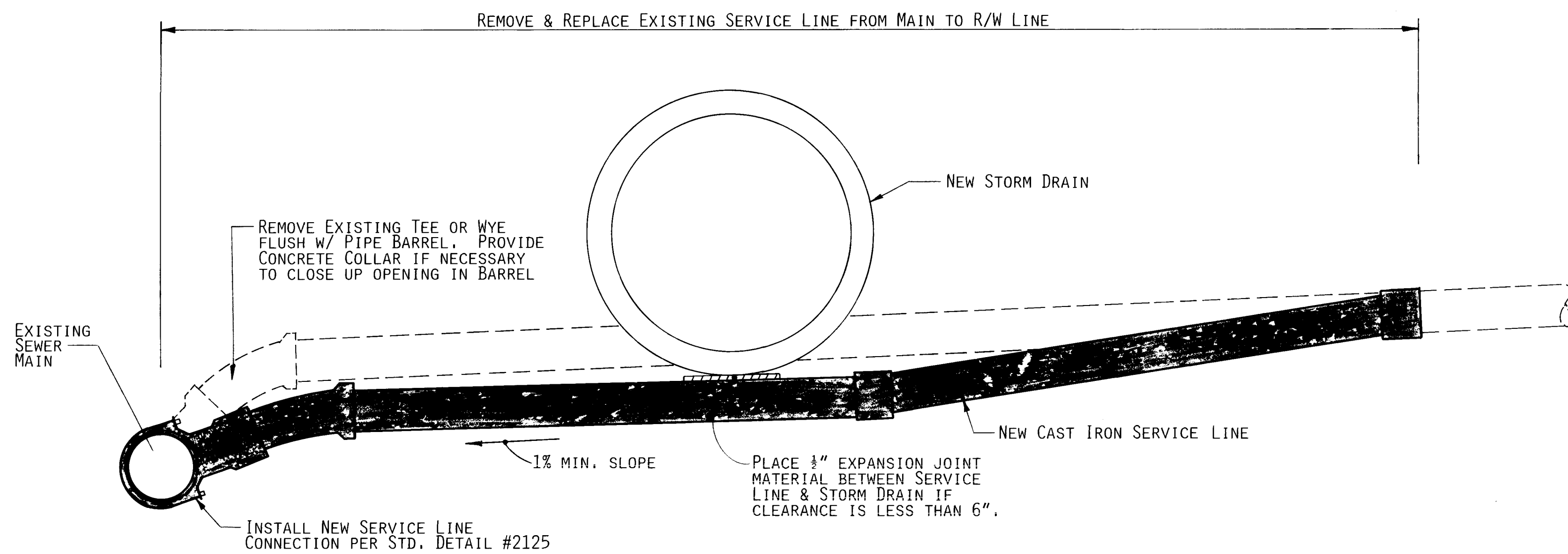
WATER SHUTOFF PLAN
SCALE: 1"=200'±



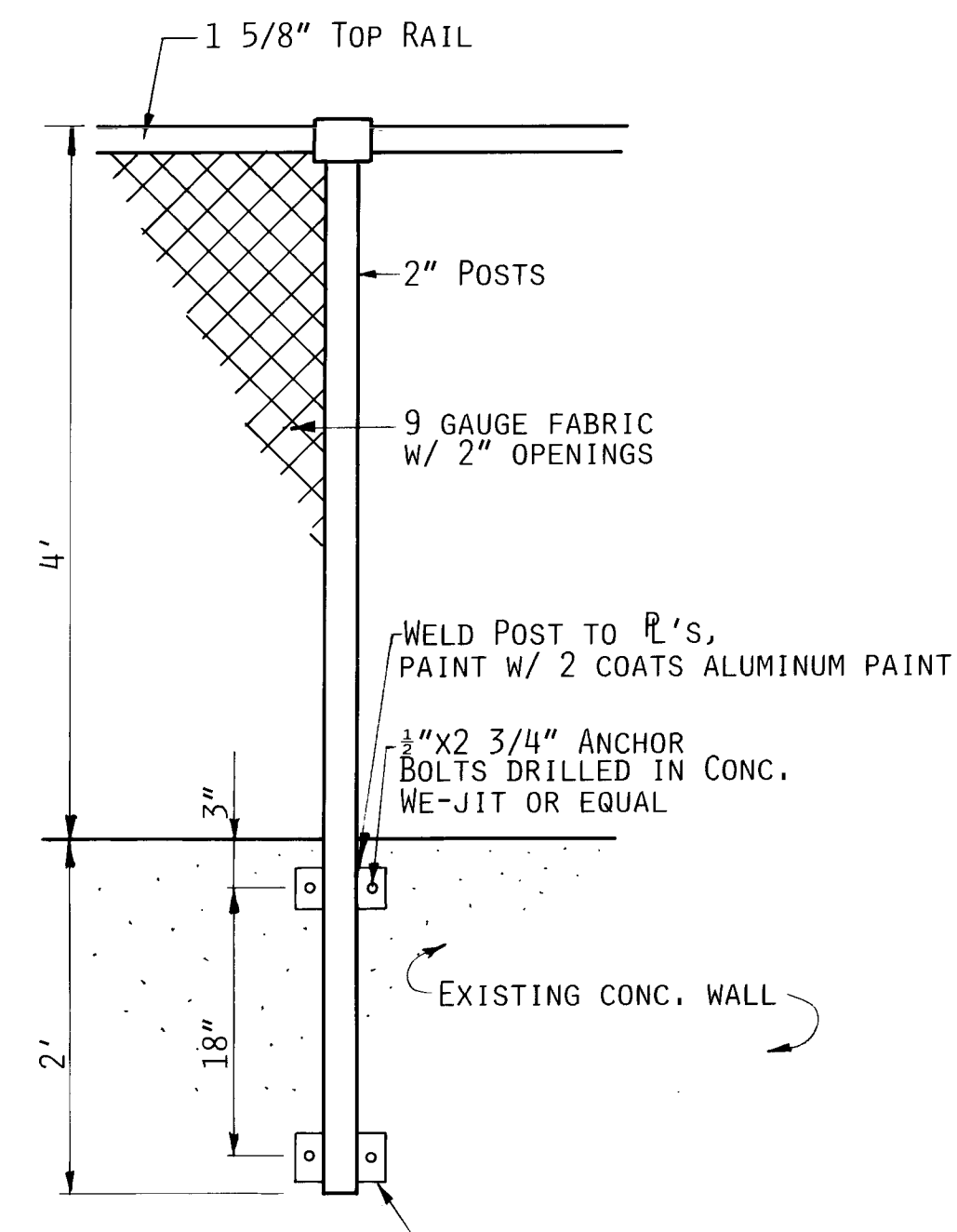
WATERLINE LOWERING - STA 5+35±
SCALE: 1/2"=1'-0"



WATER SHUTOFF PLAN
SCALE: 1"=200'±



SEWER SERVICE RE-GRADING
NO SCALE



NOTE USE 3 ANCHOR PLATES SPACED 9" O.C. FOR GATE HINGE POSTS AND FOR CORNER POSTS.

CHAIN LINK FENCE
SCALE: 1"=1'-0"

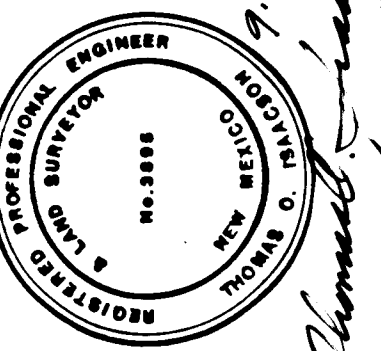
RECORD DRAWING

WARNING
This is part of a record set. All design requirements are based on reports submitted by others. Engineers assume no liability for any responsibility for the design, construction, or use of the record set. Users of record sets are cautioned and advised to obtain independent verification of actual conditions.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: HILTON PLACE STORM DRAIN DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water	R.W. Kane	9-10-90
Trans. Dev.	R. Davis	9-11-90	Waste Water	R.W. Kane	9-10-90
Hydrology	Steve Bobay	9-13-90			
PROJECT NO. 3955.90		MAP NO. G-20	SHEET 6 OF 6		

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	SURVANCE	MECHANICAL	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
MARK	STANDARD CITY SURVEYING	DATE 1/91									
ACCEPTANCE BY	D. JARAMILLO	DATE 4/91									
DRAWING	D. JARAMILLO	DATE 4/91									
RECORD BY	D. JARAMILLO	DATE 4/91									
MICRO-FILM INFORMATION			DATE			DATE			DATE		



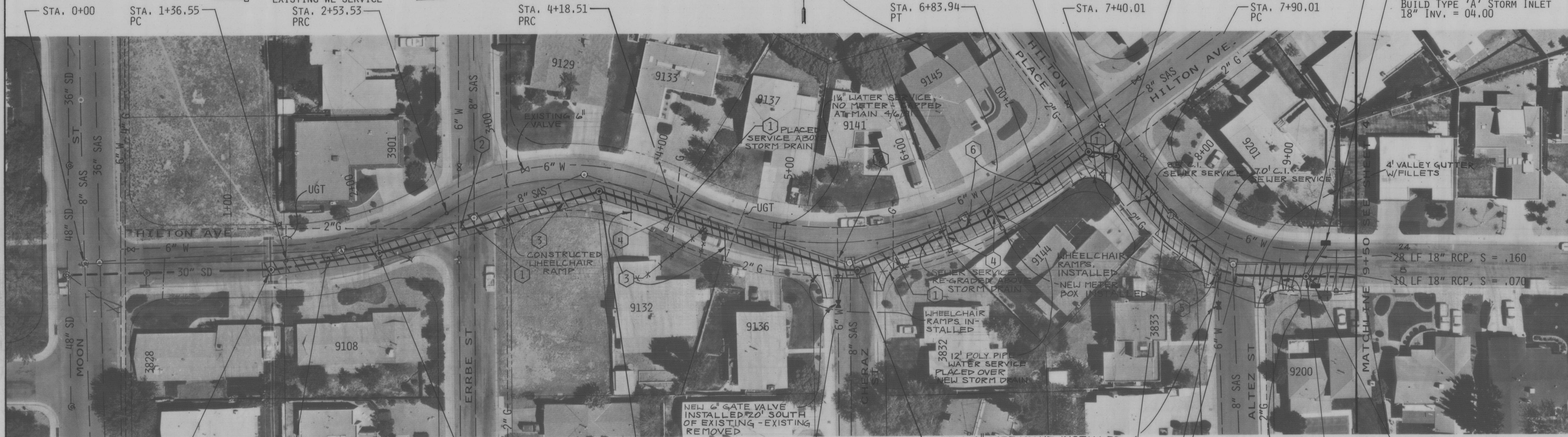
STA. 0+00 STA. 1+3

--- UGT --- UNDERGROUND TELE.
 —◇— EXISTING WL VALVE
 — .. — EXISTING SAS SERVICE
 —□— EXISTING WL SERVICE

 POWER POLE
 LIGHT POLE
 APPROXIMATE LIMITS
 OF REMOVAL*

* REMOVALS OF PAVEMENT, CURB & GUTTER, VALLEY GUTTER, SIDEWALK, ETC. ARE INCLUDED WITHIN THESE LIMITS AND NOT SPECIFICALLY CALLED OUT BY INDIVIDUAL REMOVAL NOTES.

UNDERGROUND CABLE
ENCOUNTERED 5' WEST
OF WATER SERVICE, 1 1/2'-
2' DEEP - POSSIBLE
TELEPHONE



MH No. 1
EXISTING MH
REMOVE EXISTING 24" LINE
@ MH, ENLARGE OPENING,
AND INSTALL NEW 30" LINE.
~~GROUT ANNULAR SPACE CLOSED.~~
REMOVED EXISTING 4' DIA. MH
& REPLACED W/6" DIA. TYPE 'C' MH

REMOVE & DISPOSE
OF EXISTING 24"
LINE. REPLACE W/
NEW 30" LINE.

-MH NO. 2
EXISTING MH
SAME NOTE FOR MH NO. 1
APPLIES, ALSO BREAK OUT
EAST SIDE AND INSTALL
NEW 30" LINE EAST. GROUT
ANNULAR SPACES CLOSED,
REMOVED. EXISTING 4" DIA. MH
& REPLACED W/6" DIA. TYPE 'C' MH

-MH No. 3
OPP. STA. 3+63.82, 5.77' RT.
 $\Delta = 34^{\circ}54'00''$ RT.

ELBOW NO. 1
OPP. STA. 5+40.71, 20.18' RT.
1-30° ELBOW

NEW 6" GATE VALVE INSTALLED
22' SOUTH OF EXISTING -
- MH NO. 4 EXISTING REMOVED
OPP. STA. 5+49.26, 18.83' RT.
 $\Delta = 9^{\circ}57'49''$ LT.

ELBOW NO. 2
OPP. STA. 8+18.52, 9.02' RT.
1-14°05.2' ELBOW
(52' BETWEEN #2 & #3)

ELBOW NO. 4
OPP. STA. 8+73.73
14.86' RT.
1-17°38.6' ELBOW

* TOPGRATE = 09.96
INVERT = 05.52

STA. 9+25
BUILD TYPE 'A'*
STORM INLET
18" INV. = 05.00

SCALE:
1" = 40' HOR
1" = 5' VERT

STORM DRAIN TABLE			
FROM	TO	LENGTH	TOTAL
MH-3	ELL-1	180.69	190.05
ELL-1	MH-4	<u>9.36</u>	
MH-4	PC	80.78	
PC	PT	60.39	178.24
PT	MH-5	<u>37.07</u>	
MH-6	ELL-2	59.55	
ELL-2	ELL-3	49.91	166.58
ELL-3	ELL-4	10.54	
ELL-4	MH-7	<u>46.58</u>	

KEYED NOTES

- 1 REGRADE/RE-ALIGN EXISTING GAS LINE, IF REQ'D, TO ACCOMMODATE NEW STORM DRAIN LINE.
- 2 LOWER EXISTING WATER LINE TO ACCOMMODATE NEW STORM DRAIN LINE. SEE DETAILS SH. 6
- 3 LOCATE EXIST. SAS SERVICE IN ADVANCE & REGRADE IF REQ'D, TO ACCOMMODATE NEW STORM DRAIN. REGRADED SERVICES W/10' C.I., 3"± BELOW NEW STORM DRAIN
- 4 REGRADE EXISTING WATER SERVICE LINE, IF REQ'D, TO ACCOMMODATE NEW STORM DRAIN LINE. INCIDENTAL COST TO CONSTRUCTION.
- 5 REMOVE & RESET VALVE BOX. SUPPORT WATERLINE IF REQUIRED. (INCIDENTAL)
- 6 ~~OPP. STA. 6+25.38 TO OPP. STA. 6+83.94 (7.40' RT) INSTALL STORM DRAIN LINE ON CURVE, Δ = 14°09'34", LENGTH = 60.39', SUPPLY AND INSTALL 8 BEVELED RCP JOINTS WITH 1"46' BEVELS.~~
~~BEVELED JOINTS DELETED, RCP LAID ON CURVE.~~

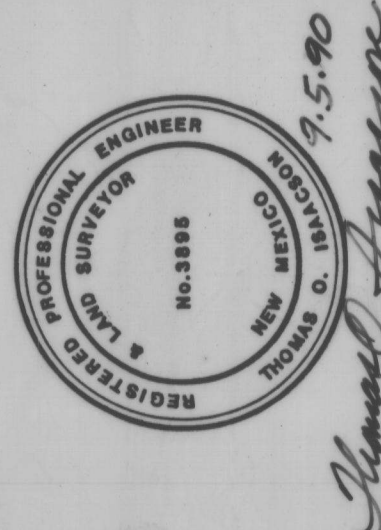
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2	6		3	9	5	5	.	9	0	0	3	9	1	

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE:	HILTON PLACE STORM DRAIN PLAN & PROFILE-WEST HALF

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>R. W. Kane</i>	9-10-90	Water	<i>R.W. Kane</i>	9-10-90
Trans. Dev.	<i>R. W. Kane</i>	9-11-90	Waste Water	<i>R.W. Kane</i>	9-10-90
Hydrology.	<i>Steve Bobbey</i>	9/13/90			

DRAWING NO.	3955.90	MAP NO.	G-20	SHEET	3	OF	6
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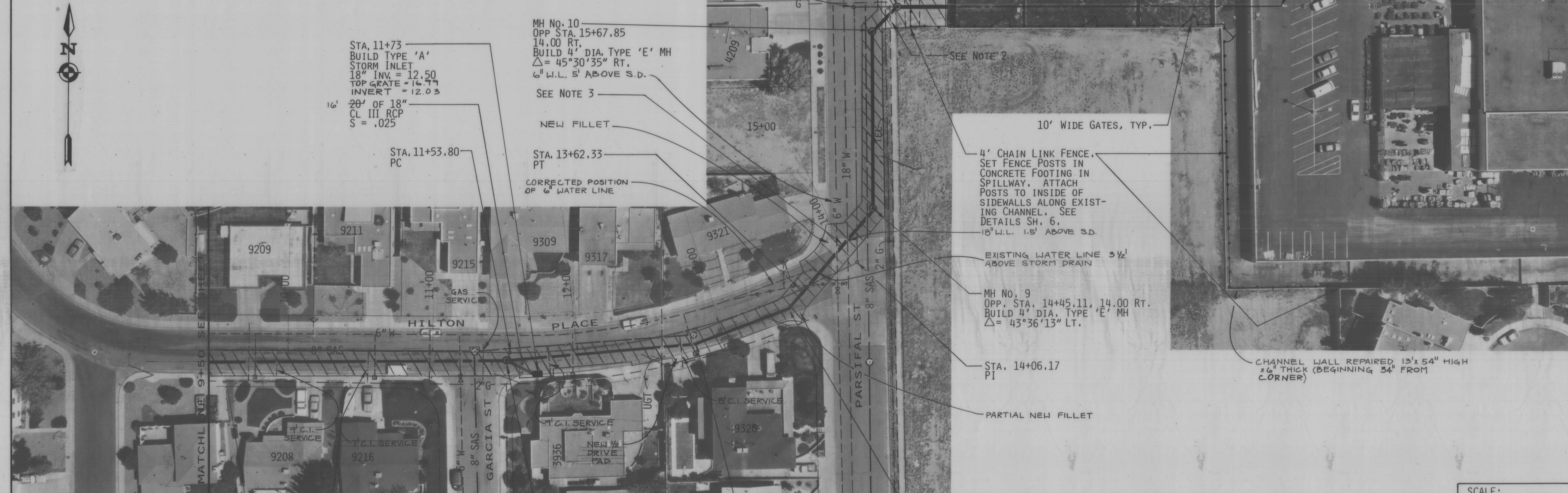
ENGINEER'S SEAL



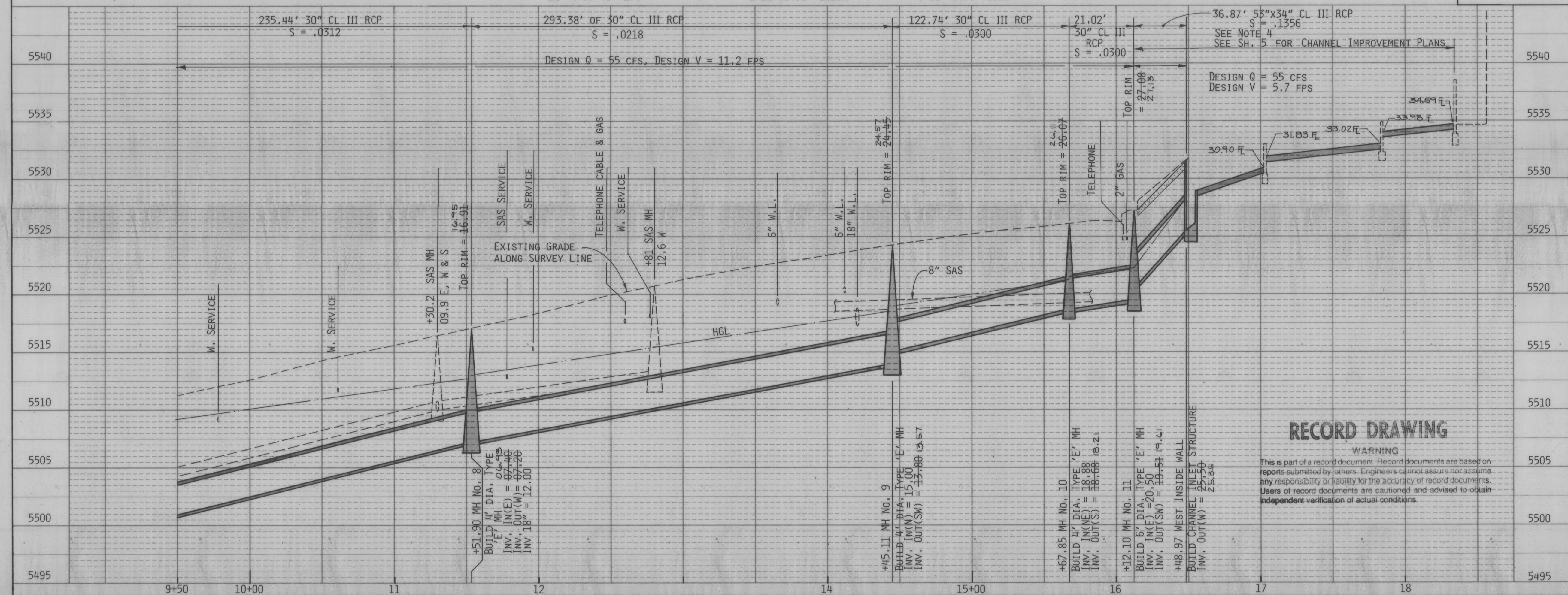
9.5.90
H. J. O. ISACSON
H. J. O. ISACSON

102110

DATE OF PHOTOGRAPHY: 5/7/90



SCALE:
1" = 40' HOR.
1" = 5' VERT.



RECORD DRAWING

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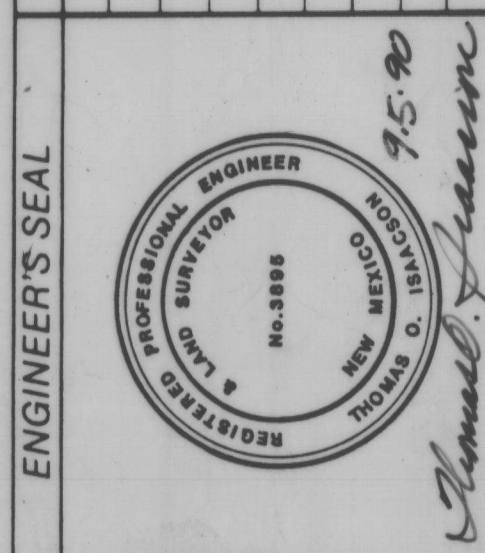
STORM DRAIN TABLE			
FROM	TO	LENGTH	TOTAL
MH-8	ELL-5	131.30	
ELL-5	ELL-6	71.14	
ELL-6	MH-9	90.94	
			293.38

NOTES

- SUPPORT EXISTING SANITARY SEWER LINE, STA. 14+00 TO 15+80, IF REQUIRED, INCIDENTAL COSTS, NO SEPARATE PAYMENT.
- REMOVE EXISTING 9'X29' WIDENED SIDEWALK/SPILLWAY (FROM BACK OF CURB TO R.O.W.) AND REPLACE WITH NEW 4" THICK WIDENED SIDEWALK.
- REPLACE CONCRETE PAVEMENT WITH 6" THICK CONCRETE AND 6" C.T.B. PER CITY STD. DWG. 2405.
- JOINTS FOR 53"X34" OVAL PIPE SHALL INCLUDE BOTH RUBBER GASKET JOINTS AND PORTLAND CEMENT MORTAR POURED IN "DIAPER" TYPE FORMS PLACED ON THE OUTSIDE CIRCUMFERENCE OF THE PIPE. DIAPER FORMS SHALL BE STANDARD MANUFACTURED ITEMS. PAYMENT FOR DIAPER JOINTS SHALL BE INCIDENTAL TO PIPE COSTS.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	3	9	5	5	9	0	0	4	9	1			

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: HILTON PLACE STORM DRAIN PLAN & PROFILE-EAST HALF			
APPROVALS	ENGINEER	DATE	APPROVALS
D.R.C. Chair	<i>[Signature]</i>	9/10/90	Water
Trans. Dev.	<i>[Signature]</i>	9/10/90	Waste Water
Hydrology	<i>[Signature]</i>	9/10/90	
DRAWING NO.	3955.90	MAP NO.	G-20
SHEET	4	OF	6



REVISIONS		BY	
NO.	DATE	REMARKS	DATE
		DESIGNED BY	TOI
		DRAWN BY	NV
		CHECKED BY	TOI
		DATE	9/10/90
		DATE	9/10/90

AS BUILT INFORMATION		BENCH MARKS	
CONTRACTOR	SUNDANCE MECHANICAL	STAKED BY	CITY SURVEYING, DATE 1/7/91
INSPECTORS	BY J. JARAPILLO	DATE	4/9/91
FIELD VERIFICATION	BY J. JARAPILLO	DATE	4/9/91
CORRECTED BY	T. ISAACSON	DATE	4/9/91
MICRO-FILM INFORMATION		RECORDED BY	
		NO.	