

COMMUNITY SCIENCES CORPORATION - CORRALES, NEW MEXICO - (505) 897-0000

PARADISE MEADOWS SUBDIVISION - UNIT 2

CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

IMPROVEMENTS FOR GRADING, PAVING AND UTILITIES

INDEX TO DRAWINGS

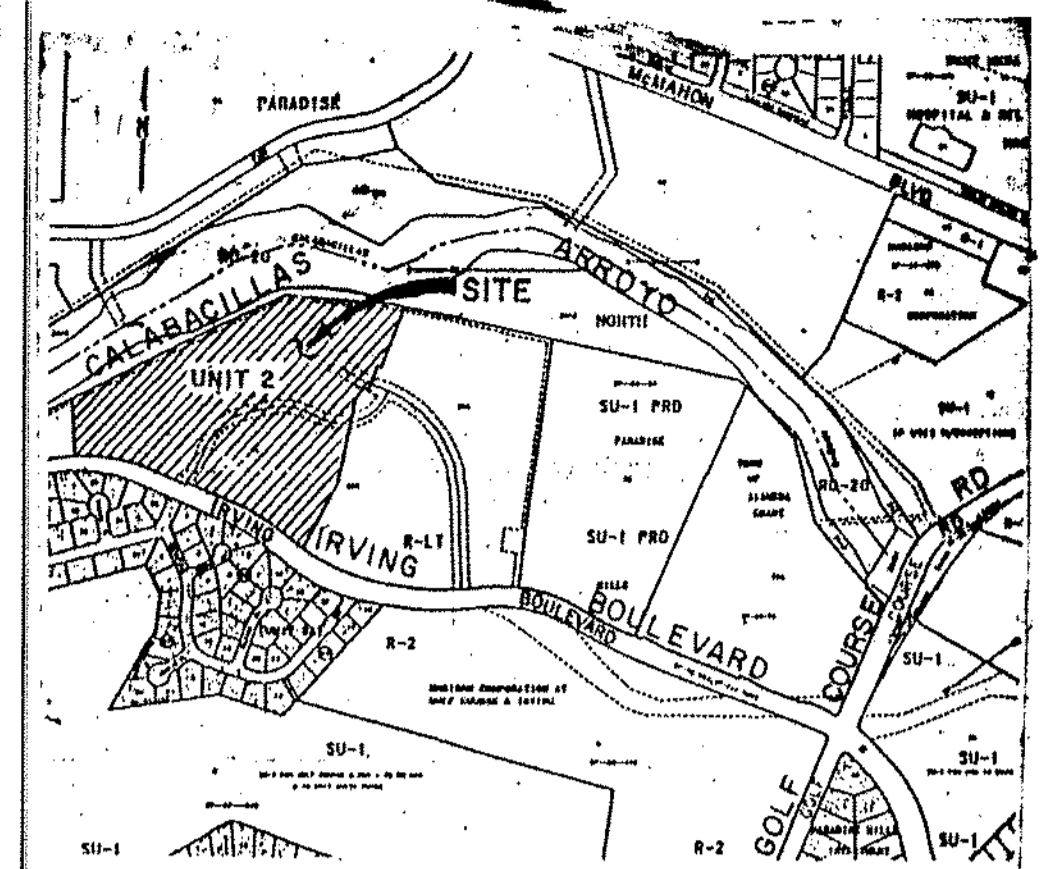
SHEET NO.	DESCRIPTION
1	COVER SHEET AND INDEX TO DRAWINGS
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18-19	REFERENCE - AMAFCA AS BUILT PLANS FOR GRADE CONTROL STRUCTURE NO. 2

N.M.U. INC. GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTACT NMUI AT 898-2661 AT LEAST THREE DAYS PRIOR TO ANY UTILITY CONSTRUCTION (INCLUDING CONNECTIONS TO THE EXISTING SYSTEM) TO COORDINATE THE VARIOUS ITEMS OF WORK WITH NMUI OPERATIONS STAFF.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FROM HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE STATE OF NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1987.
3. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FROM HEREON, BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. (NMUI) STANDARD SPECIFICATIONS. IF NMUI SPECIFICATIONS ARE IN CONFLICT WITH THE NEW MEXICO SPECIFICATIONS, NMUI SPECIFICATIONS SHALL TAKE PRIORITY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
6. THE CONTRACTOR SHALL FURNISH EMD'S ON ALL WATER AND SEWER SERVICE STUBS, CAPS AND PLUGS.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS, CITY OF ALBUQUERQUE SPECIFICATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A BARRICADING PERMIT PRIOR TO COMMENCEMENT OF WATER OR SEWER CONSTRUCTION. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.

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 LIMITED 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 THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF ANY 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.



SCALE: 1" = 750 ± VICINITY MAP A-12-Z

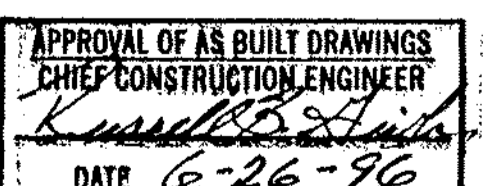
GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FROM HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED WITH UPDATE NO. 4.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
4. THE CONTRACTOR SHALL FURNISH EMD'S ON ALL WATER AND SEWER SERVICE STUBS, CAPS AND PLUGS.
5. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
6. THE PUBLIC WATER LINE MUST BE A MINIMUM OF 18" ABOVE THE SEWER LINE AT ALL CROSSINGS.
7. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (788-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
8. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET. ALL NEW STRIPING SHALL BE PLASTIC AS PER CITY STANDARDS.

SURVEYOR'S CERTIFICATION

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the Laws of the State of New Mexico, do hereby certify that the "as-built" information shown on these drawings was obtained from field construction and "as-built" surveys performed by me, or under my supervision, that the "as-built" information shown on these drawings was added by me, or under my supervision and that this "as-built" information is true and correct to the best of my knowledge and belief." Aldrich Land Surveying, Inc., is not responsible for any of the design concepts, calculations, engineering or any part of the record drawings.

Timothy Aldrich 01-26-96
 Timothy Aldrich Date



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 20-149947-191 01196

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

	DATE: AUG. 1994	APPROVED FOR CONSTRUCTION <i>[Signature]</i> CITY ENGINEER DATE: 7/27/95
	SCALE: AS SHOWN DESIGNED: T.J.B. DRAWN: A.M. JOB NO.: 25211-HRE LAND PLANNING P.O. Box 1328 ENGINEERING Corrales, N.M. 87048 SURVEYING	
PROJEC NO. 4941.91	SHEET 1 OF 19	

STORM INLETS (IRVING BLVD. STATIONING AND OFFSETS)

INLET J-1	STA. 12+11.59	40.53' RT.
INLET J	STA. 11+73.64	40.96' RT.
INLET I	STA. 11+92.62	40.74' RT.
INLET H	STA. 11+29.34	41.09' RT.
INLET G	STA. 11+01.92	41.06' RT.
INLET A	STA. 11+36.28	40.50' LT.
INLET B	STA. 11+48.68	40.50' LT.
INLET C	STA. 11+72.51	40.50' LT.
INLET D	STA. 11+87.78	40.50' LT.
INLET E	STA. 12+08.76	40.50' LT.
INLET F	STA. 12+24.02	40.50' LT.

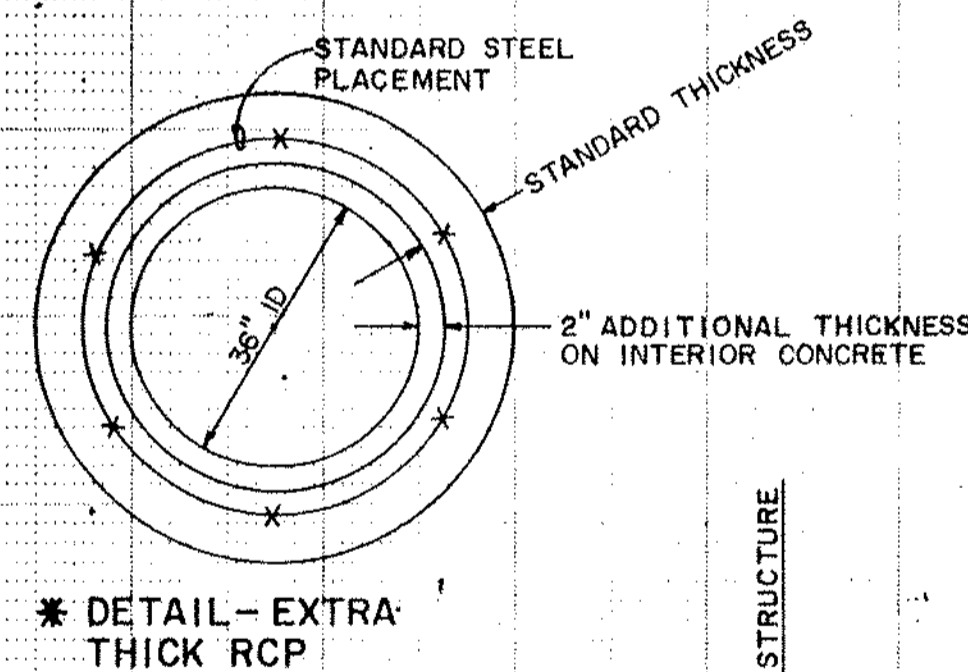
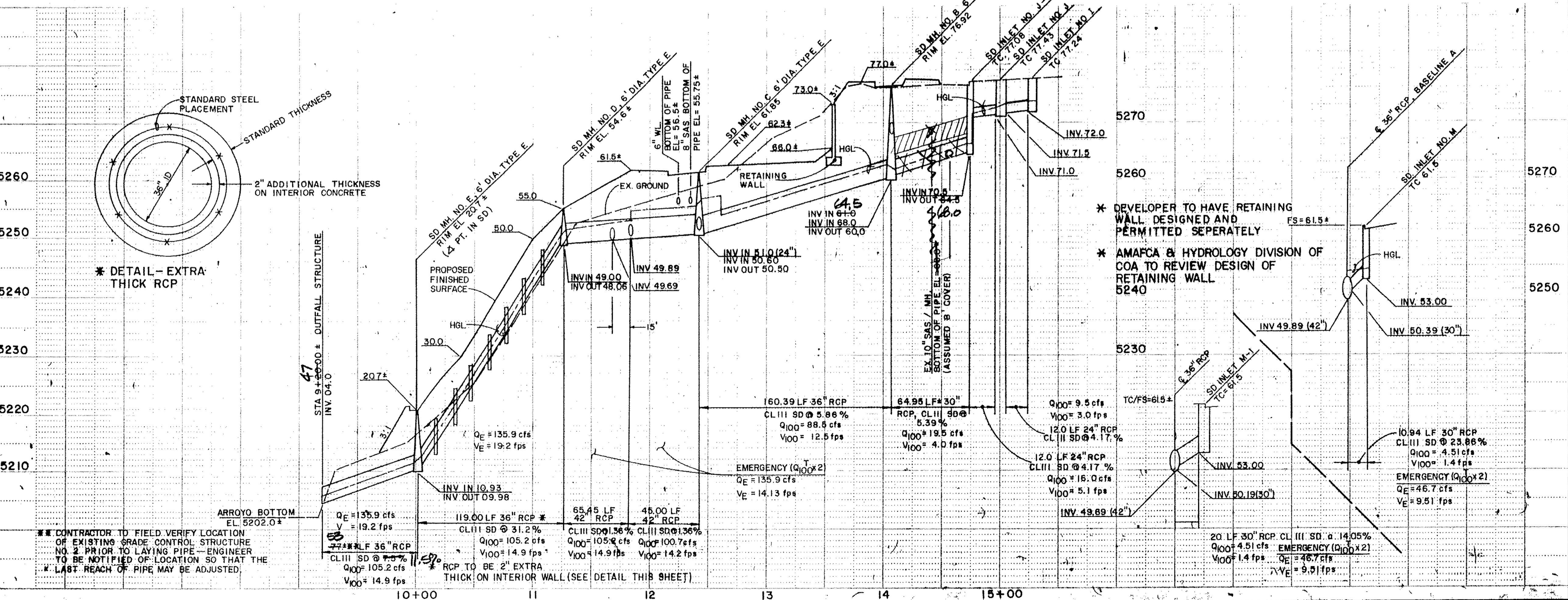
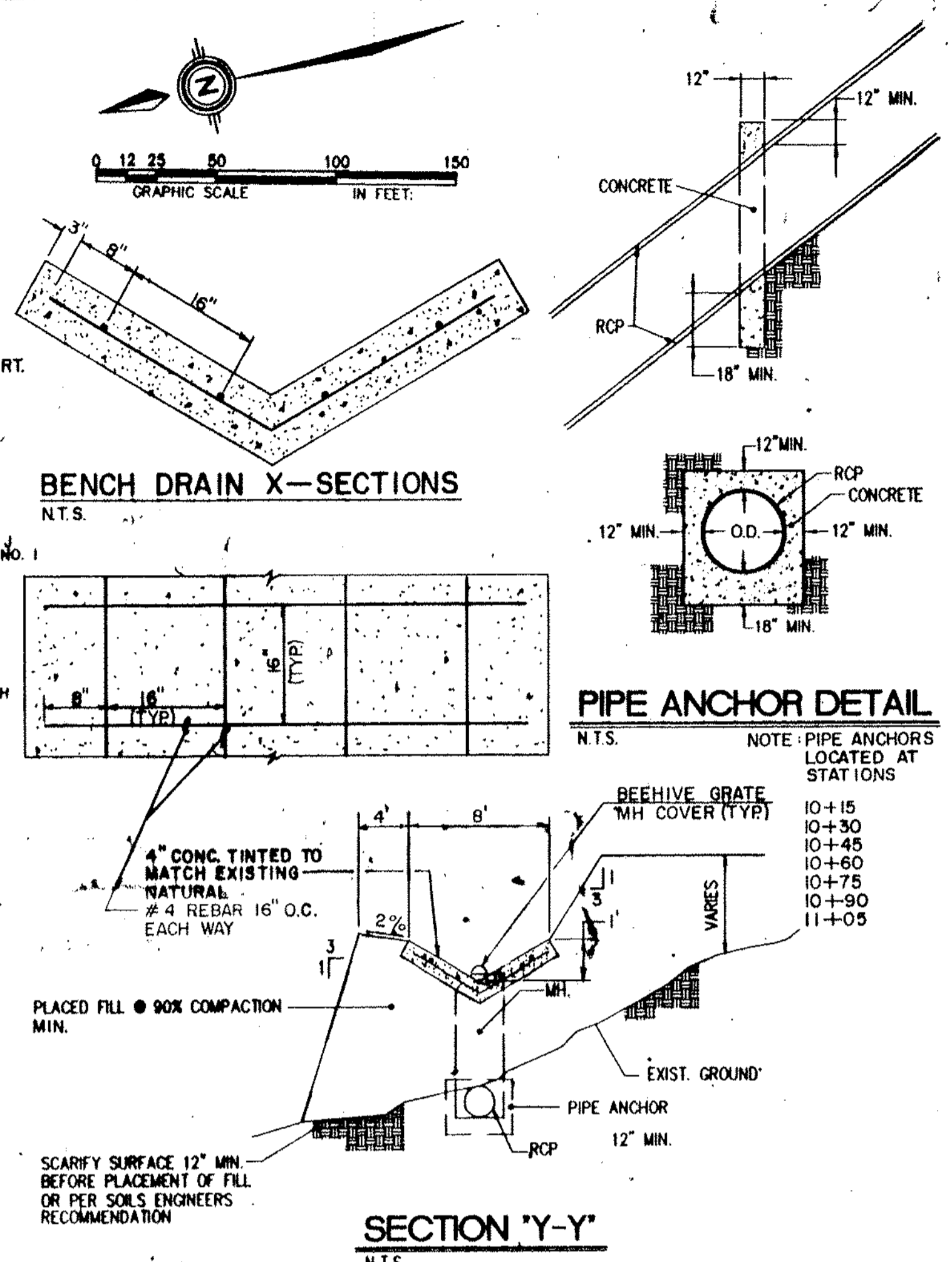
NOTE: SEE SHEET 17 FOR OUTFALL STRUCTURES

NOTE: REVEGETATION TO BE PLANTED OVER ALL TRENCHES & DISTURBED AREAS IN OPEN SPACE

CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO DIGGING

UTILITY LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE	—	—
ENCASEMENT	—	—
SANITARY SEWER MANHOLE	—	—
SAS SERVICE CONNECTION	—	—
STORM DRAIN LINE	—	—
STORM DRAIN MANHOLE	—	—
STORM DRAIN INLETS	—	—
WATER LINE	—	—
GATE VALVE	—	—
BUTTERFLY VALVE	—	—
FIRE HYDRANTS	—	—
REDUCERS	—	—
WATER SERVICE / METER	—	—
TEES	—	—
CROSSES	—	—
BENDS	—	—
CAPS & PLODS	—	—
ARTERIAL PAVING REMOVAL AND REPLACEMENT	—	—



* DEVELOPER TO HAVE RETAINING WALL DESIGNED AND PERMITTED SEPERATELY

* AMAFCA & HYDROLOGY DIVISION OF COA TO REVIEW DESIGN OF RETAINING WALL 5240

NOTE: ALL INLETS ARE TYPE "A" DOUBLE GRATE, SINGLE THROAT TYPE CATCH BASINS PER C.O.A. STD. DWG. 2201

15 ARTERIAL PAVING TO BE REMOVED AND REPLACED (C.O.A. DWG. 2465)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	19	9	7	1	9	1	1	1	1	1	1	1	1	1

SCALE
HORIZ: 1" = 50'
VERT: 1" = 10'

community sciences corporation

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: PARADISE MEADOWS-UNIT 3
UTILITY PLAN & PROFILE
BASELINE "A" (STORM DRAIN)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. J. ...</i>	12-26-95	WATER	<i>NIA RIDE</i>	11-10-94
TRANSPORTATION	<i>M. ...</i>	12-21-94	WASTE WATER	<i>NIA RIDE</i>	11-10-94
HYDROLOGY	<i>A. ...</i>	12-21-94	AMAFCA	<i>J. ...</i>	11-22-94

PROJECT NO. 494191
MAP NO. A-12
SHEET 16 OF 19

AS BUILT INFORMATION

CONTRACTOR: *CSM, INC.*

DATE: *1/96*

INSPECTOR'S DATE: *1/96*

FIELD DATE: *1/96*

APPROVED BY: *ALS, INC.*

DATE: *1/96*

RECORDED BY: *ALS, INC.*

DATE: *1/96*

BENCH MARKS

STATION IS A 3 1/4" ALUMINUM TABLET SET IN CONCRETE.

STAMPED "ACS 2-B12, 1985" LOCATED AT THE INTERSECTION OF IRVING BLVD. AND TIMAN AVE. TO REACH THE BENCHMARK FROM THE INTERSECTION OF COORS BLVD. AND IRVING BLVD. GO WEST 2.2 MILES ON IRVING TO TIMAN AVE. ELEVATION = 5273.83 FEET (MSL)

SURVEY INFORMATION

FIELD NOTES

NO.	DATE	BY
1	1/84	COMMUNITY SCIENCES

REVISIONS

NO.	DATE	REVISIONS
DESIGN		

DESIGNED BY: T.J.B. DATE: SEPT. 1994

DRAWN BY: A.L. DATE: SEPT. 1994

CHECKED BY: DATE: AUGUST 1994

ENGINEER'S SEAL: *James P. ...*

COMMUNITY SCIENCES CORPORATION

PARADISE GREENS - UNIT 1

CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

IMPROVEMENTS FOR GRADING, PAVING AND UTILITIES

INDEX TO DRAWINGS

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1	COVER SHEET AND INDEX TO DRAWINGS
2-3	PLAT OF GEOMETRY
4	GRADING AND EROSION CONTROL PLANS <u>PAVING PLAN AND PROFILES</u>
5	COMPOSITE PAVING PLAN
6	ALTA MESA COURT & WOODBURNE ROAD N.W.
7	ALTA MESA DR. N.W.
8	SANDHURST DRIVE & GREEN MEADOW DRIVE N.W. <u>UTILITY PLAN AND PROFILES</u>
9	COMPOSITE UTILITY PLAN
10	ALTA MESA COURT & WOODBURNE ROAD N.W.
11	ALTA MESA DR. N.W.
12	SANDHURST DRIVE & GREEN MEADOW DRIVE N.W.
13-15	OFFSITE STORM DRAIN & SANITARY SEWER OUTFALL
16	OFFSITE STORM DRAIN DETAILS
17-18	EXISTING GRADE CONTROL STRUCTURES

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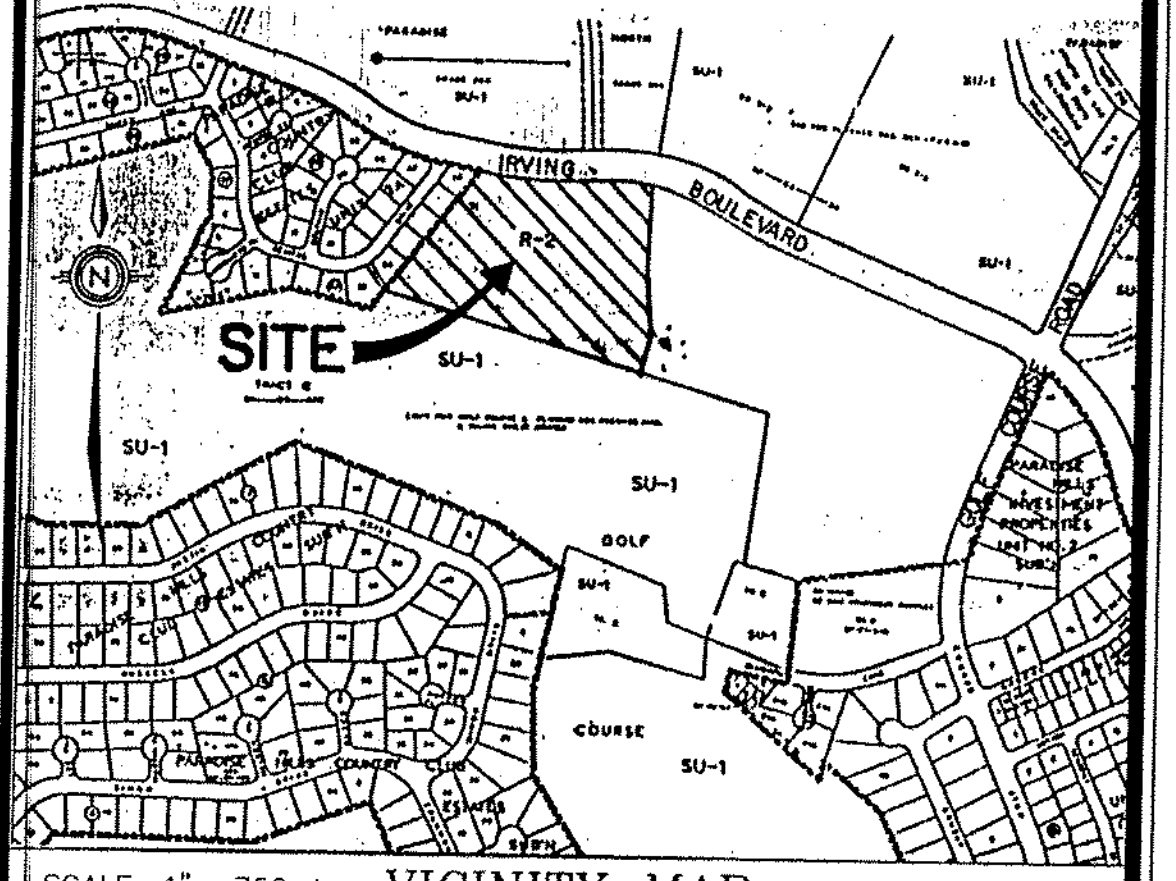
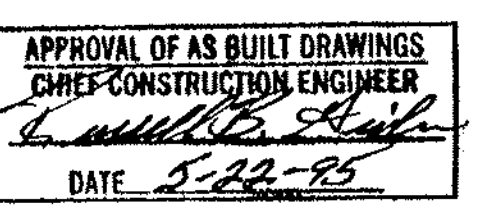
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Timothy Aldrich, P.S. No. 7119 Date **2-15-95**



SCALE: 1" = 750 ± VICINITY MAP B-12-Z

GENERAL NOTES:

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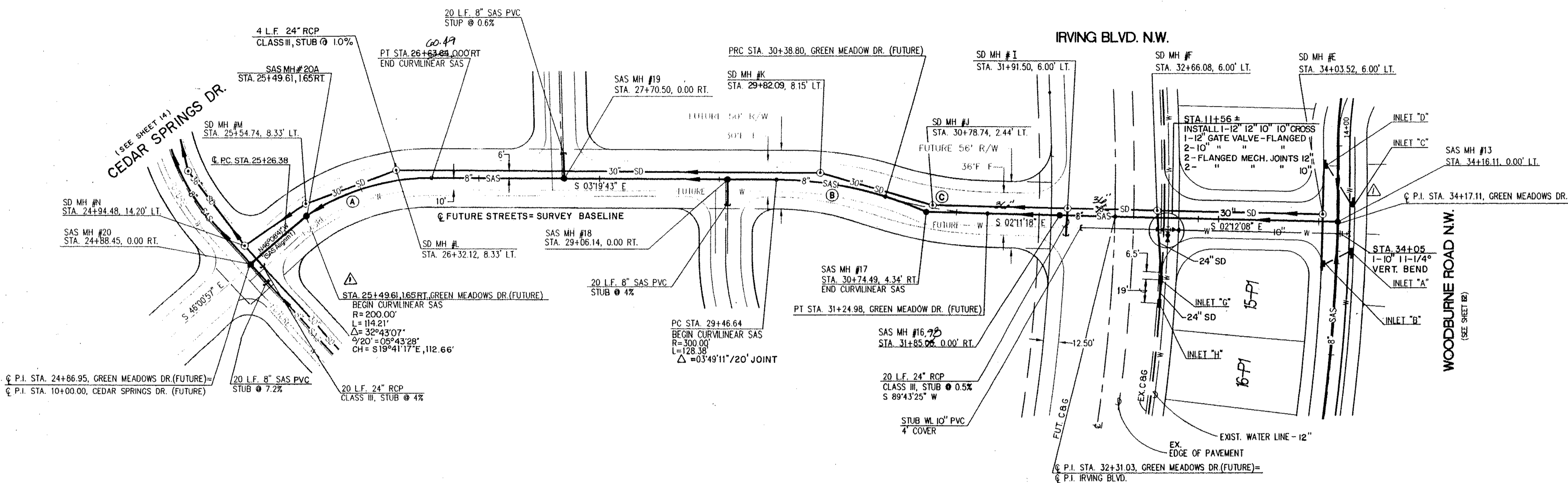
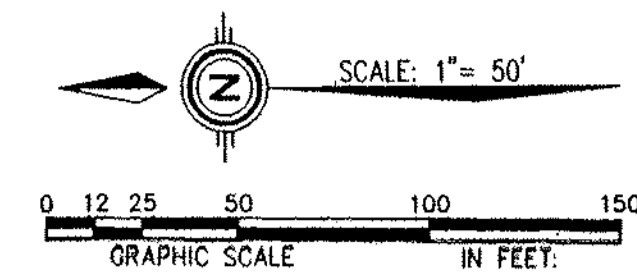
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ENGINEER'S SEAL		DATE	MARCH 1994	community sciences corporation		APPROVED FOR CONSTRUCTION		DATE	
		SCALE	AS SHOWN			LAND PLANNING P.O. Box 1328 CORRALES, N.M. 87048		DATE	
PROJECT NO.	4905.90	SHEET		1		OF		18	

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26 4905.90 01 95

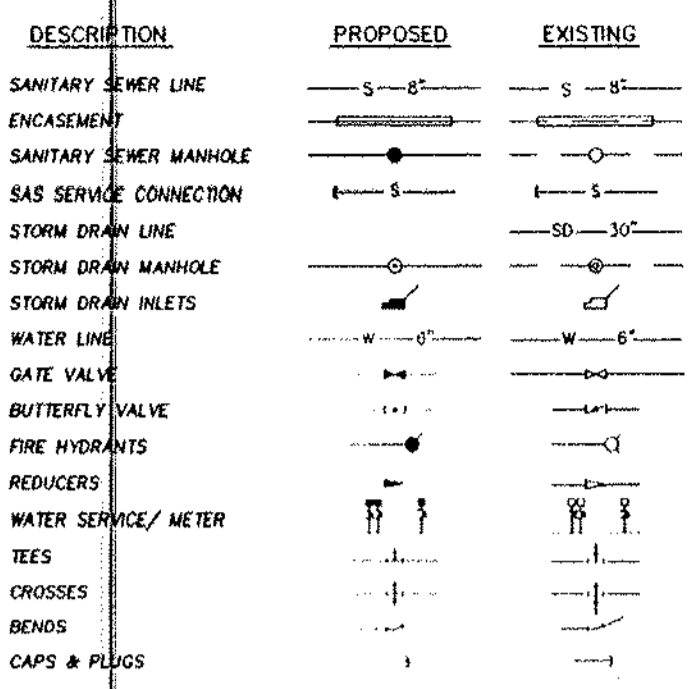
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B CURVE DATA
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 Δ=017°36'02"

C CURVE DATA
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 L=86.18'
 Δ=016°27'36"

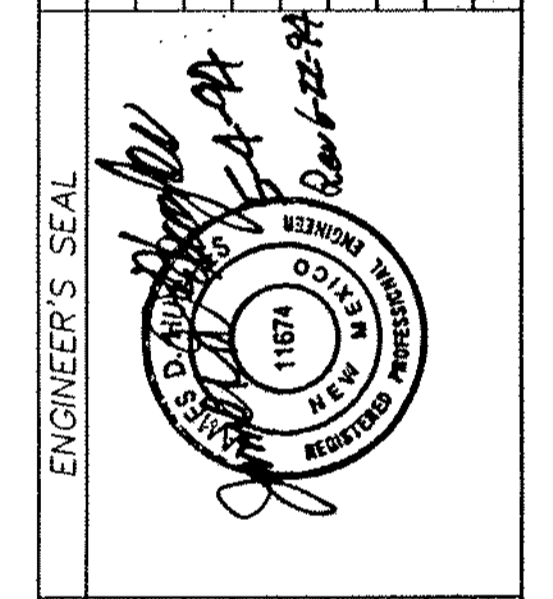


UTILITY LEGEND



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
NO.	DATE	NO.	DATE	NO.	DATE
1	1/93				

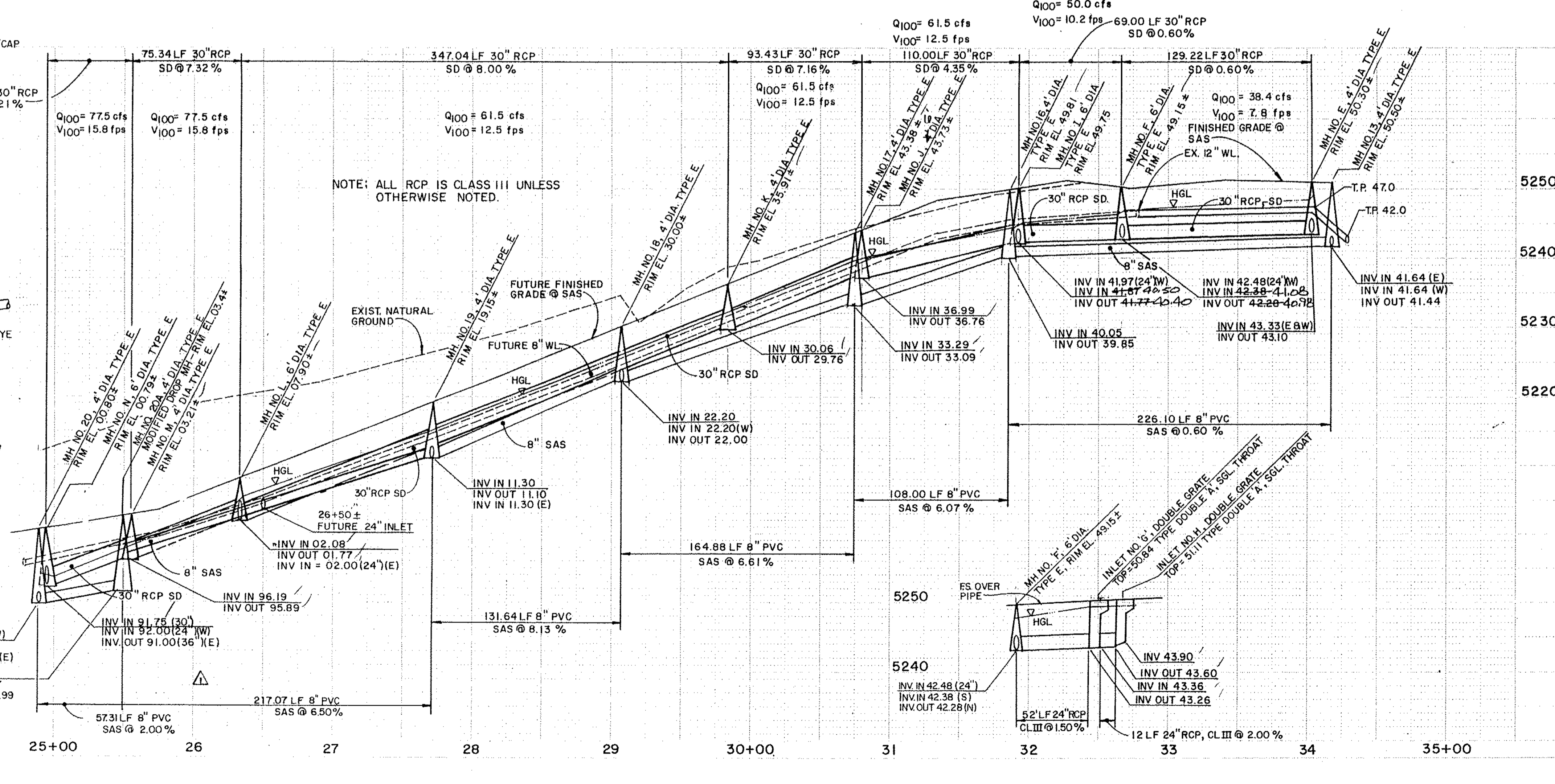
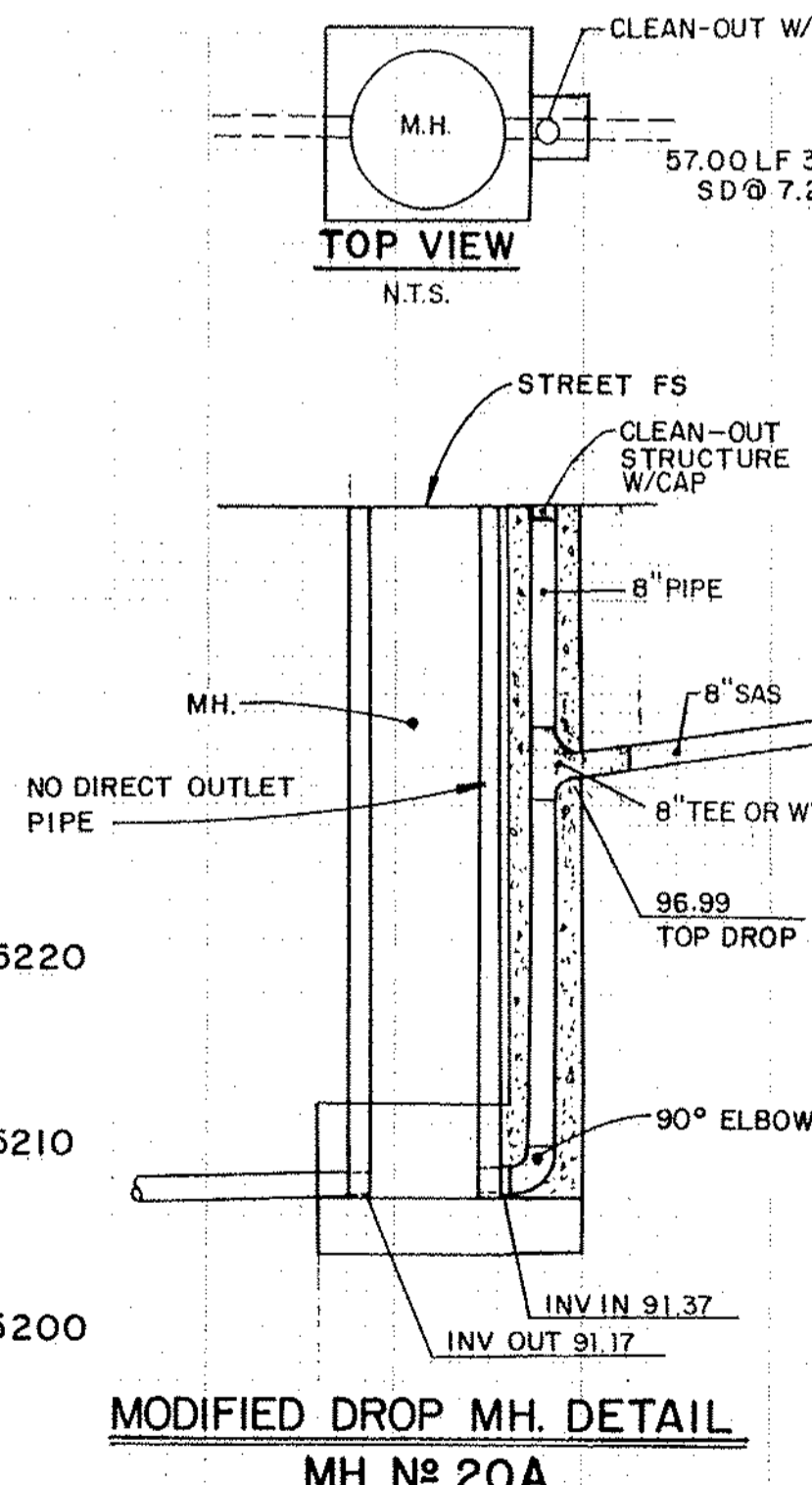
CONTRACTOR: CCM
 STAMPED: ACS 2-912-1985
 BENCHMARK: THE STATION IS A 3/4" ALUMINUM TARGET SET IN CONCRETE
 STAMPED: ACS 2-912-1985 LOCATED ON THE SOUTHWEST CORNER OF IRVING BLVD. N.W. AND TIMAN AVE. N.W. S.D. 1929 ELEVATION = 5273.83



NO.	DATE	REMARKS
		DESIGN

DESIGNED BY: TJB/TLM DATE: MAY 1993
 DRAWN BY: AM/DR DATE: MAY 1993
 CHECKED BY: DATE:

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: PARADISE GREENS - UNIT1 OFFSITE STORM DRAIN & SANITARY SEWER OUTFALL					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	7-18-94	WATER	<i>[Signature]</i>	5/14/94
TRANSPORTATION	<i>[Signature]</i>	5-18-94	WASTE WATER		
HYDROLOGY	<i>[Signature]</i>	5-18-94	A.M.A.F.C.A.		
			N. M. U. I.		5-11-94



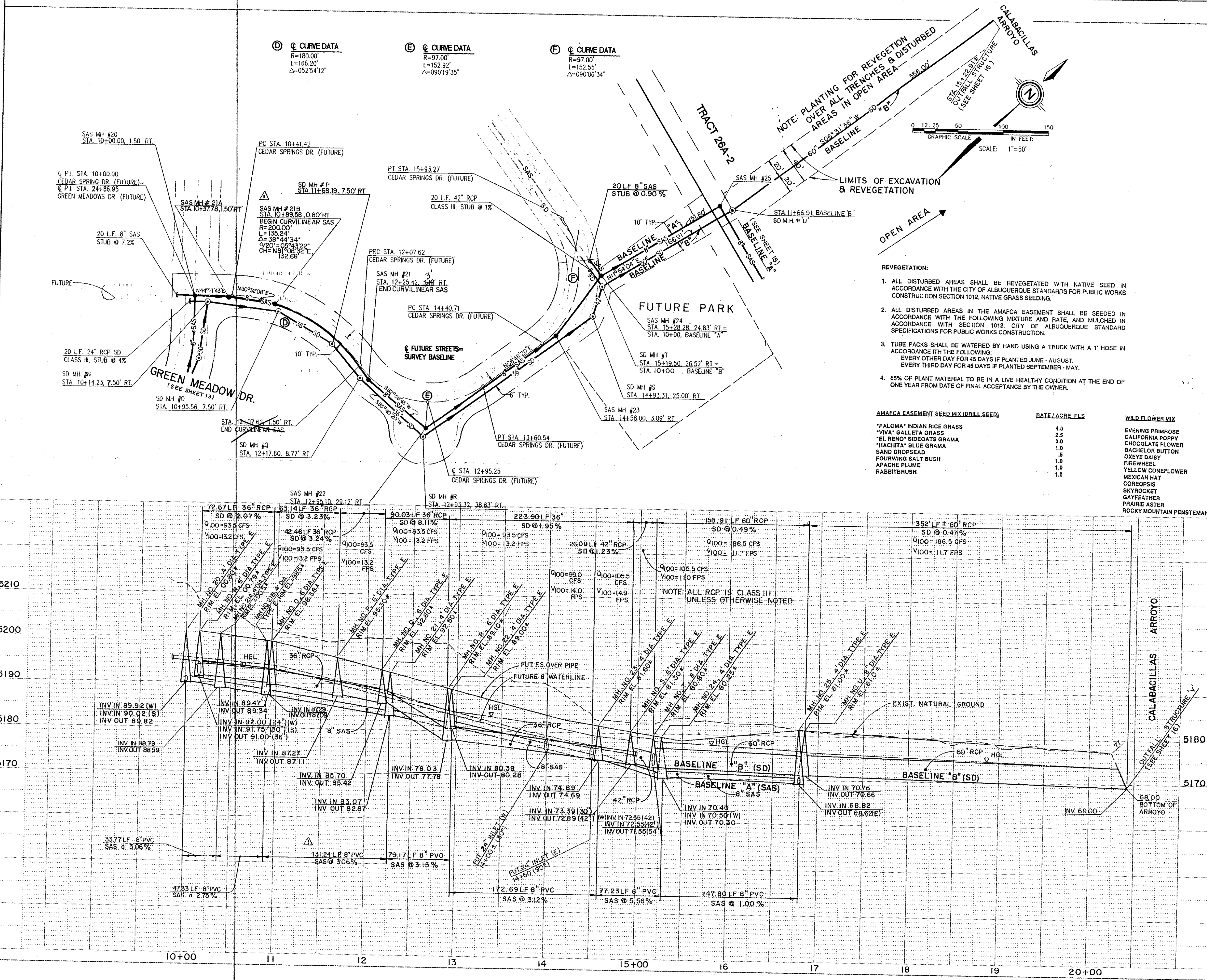
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: PARADISE GREENS - UNIT1 OFFSITE STORM DRAIN & SANITARY SEWER OUTFALL					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	7-18-94	WATER	<i>[Signature]</i>	5/14/94
TRANSPORTATION	<i>[Signature]</i>	5-18-94	WASTE WATER		
HYDROLOGY	<i>[Signature]</i>	5-18-94	A.M.A.F.C.A.		
			N. M. U. I.		5-11-94

PROJECT NO. 4905.90 MAP NO. B-12 SHEET 13 OF 18

CORRALES, NEW MEXICO - (505) 897-0000

COMMUNITY SCIENCES CORPORATION



UTILITY LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE	—S—S—	—S—S—
SANITARY WATER MAIN	—S—S—	—S—S—
SAS SERVICE CONNECTION	—S—S—	—S—S—
STORM DRAIN LINE	—S—S—	—S—S—
STORM DRAIN MANHOLE	—S—S—	—S—S—
WATER LINE	—S—S—	—S—S—
GATE VALVE	—S—S—	—S—S—
AUTOMATIC VALVE	—S—S—	—S—S—
FIRE HYDRANTS	—S—S—	—S—S—
REDUCERS	—S—S—	—S—S—
WATER SERVICE/ METER	—S—S—	—S—S—
TEES	—S—S—	—S—S—
CROSSES	—S—S—	—S—S—
BENDS	—S—S—	—S—S—
CAPS & PLUGS	—S—S—	—S—S—

- REVEGETATION:**
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITH NATIVE SEED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARDS FOR PUBLIC WORKS CONSTRUCTION SECTION 1012, NATIVE GRASS SEEDING.
 - ALL DISTURBED AREAS IN THE AMAFCA EASEMENT SHALL BE SEEDED IN ACCORDANCE WITH THE FOLLOWING MIXTURE AND RATE, AND MULCHED IN ACCORDANCE WITH SECTION 1012, CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - TUBE PACKS SHALL BE WATERED BY HAND USING A TRUCK WITH A 1" HOSE IN ACCORDANCE WITH THE FOLLOWING:
EVERY OTHER DAY FOR 45 DAYS IF PLANTED JUNE - AUGUST.
EVERY THIRD DAY FOR 45 DAYS IF PLANTED SEPTEMBER - MAY.
 - 85% OF PLANT MATERIAL TO BE IN A LIVE HEALTHY CONDITION AT THE END OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.

AMAFCA EASEMENT SEED MIX (DRILL SEED)

SEED MIX	RATE / ACRE PLS
*PALOMA INDIAN RICE GRASS	4.0
*VIVA GALLETIA GRASS	2.5
*EL RENO SIDEGRASS GRAMA	3.0
*HACHITA BLUE GRAMA	1.0
SAND DROPSAID	.5
FOURWING SALT BUSH	1.0
APACHE PLUME	1.0
RABBITBRUSH	1.0

WILD FLOWER MIX

EVENING PRIMROSE	1.0
CALIFORNIA POPPY	1.0
CHOCOLATE FLOWER	1.0
BACHELOR BUTTON	1.0
OXEYE DAISY	1.0
FIREWHEEL	1.0
YELLOW CLOVERFLOWER	1.0
MEXICAN HAT	1.0
COREOPSIS	1.0
SKYROCKET	1.0
GAYFEATHER	1.0
PRAIRIE ASTER	1.0
ROCKY MOUNTAIN PENSTEMAN	1.0

REVISIONS

NO.	DATE	REMARKS
1	7/13/94	DESIGN

AS BUILT INFORMATION

CONTRACTOR	DATE
CCM	7/13/94

FIELD NOTES

NO.	DATE	BY
1	7/93	COMMUNITY SCIENCES

ENGINEER'S SEAL

Professional Engineer Seal for the State of New Mexico, No. 11674, signed by [Name], dated 6-22-94.

26 4925 901495

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: PARADISE GREENS - UNIT I
OFFSITE STORM DRAIN & SANITARY SEWER OUTFALL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	[Signature]	7-13-94	WATER	[Signature]	
TRANSPORTATION	[Signature]	5-15-99	WASTE WATER	[Signature]	
HYDROLOGY	[Signature]	5-26-94	A.M.A.F.C.A.	[Signature]	
			N.M.U.I.	[Signature]	

PROJECT NO. 4905.90 MAP NO. B-12 SHEET 14 OF 18