

PUBLIC IMPROVEMENT PLANS
FOR THE
SUMMER RAY SUBDIVISION--UNIT 1
ALBUQUERQUE, NEW MEXICO

MAY 1995

PREPARED FOR:
ARGUS DEVELOPMENT COMPANY
6400 UPTOWN BLVD. NE, STE. 200W
ALBUQUERQUE, NM 87110

PREPARED BY:
ISAACSON & ARFMAN, P.A.
128 MONROE ST. NE
ALBUQUERQUE, NM 87108

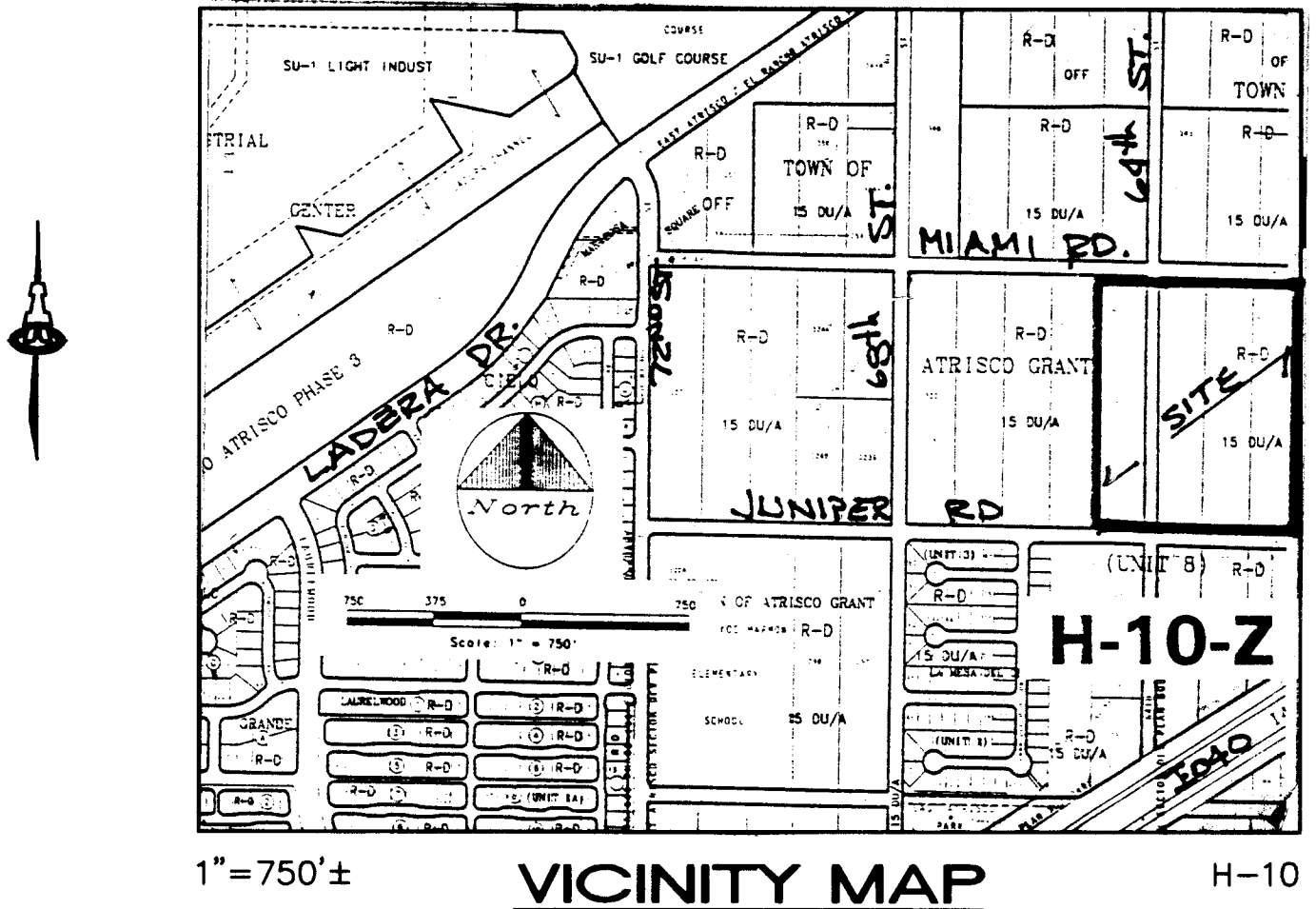
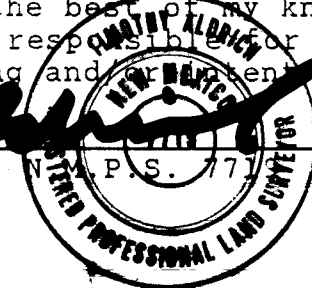
INDEX TO DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET
2	SUBDIVISION PLAT
3	GRADING/DRAINAGE PLAN
4	MASTER PAVING PLAN
5	MASTER UTILITY PLAN
	<u>PAVING PLAN & PROFILE SHEETS</u>
6	SUMMER RAY CT. & SUMMER RAY RD.
7	SUMMERWOOD CT. & SUMMERWOOD RD.
8	64TH ST., SUMMER RAY DR. & SUMMERWOOD DR.
9	JUNIPER RD
	<u>UTILITY PLAN & PROFILE SHEETS</u>
10	SUMMER RAY CT. & SUMMER RAY RD.
11	SUMMERWOOD CT. & SUMMERWOOD RD.
12	64TH ST. & SUMMERWOOD DR.
13	SUMMER RAY DR.
14	MIAMI RD. & JUNIPER RD.
15	GRADING NOTES & DETAILS

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 and other work shown on the record drawings.

Timothy Aldrich
Date 11-21-95

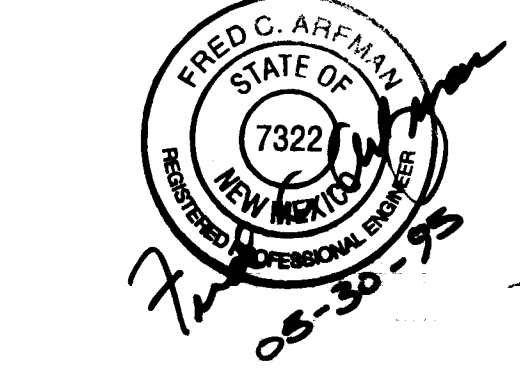
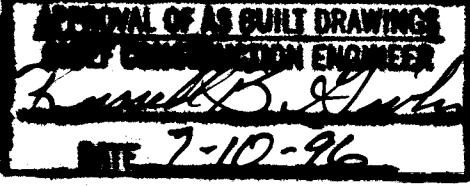


GENERAL NOTES

- 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 Edition as amended with Update No. 5.
- All work on this project shall be performed in accordance with applicable federal, state, and local laws, rules, and regulations concerning construction safety and health. All water and sanitary sewer shall be in accordance with New Mexico Utilities, Inc. Specifications and Details.
- 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.
- Two (2) working days prior to any excavation, Contractor must contact Line Locating Service @ 260-1990 for location of existing utilities.
- Contractor shall conduct his operations in a manner which will minimize interference with local traffic. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property, and to protect them from damage, injury, or loss. Contractor shall erect and maintain as required by the conditions and progress of the work, all necessary safeguards for safety continuously and not limited to normal working hours, throughout the duration of the project. Contractor shall adhere to Section 19 of the General Conditions of the City of Albuquerque Standard Specifications for Public Works Construction, 1986, as amended with Update No. 5.
- The Contractor agrees that he shall assume the sole and complete responsibility for the job site conditions during the course of construction of this project, including safety of all persons and property, that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify, and hold harmless the Owner & Engineer from any and all liability real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of the Owner or Engineer.
- TRAFFIC CONTROL: 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 (768-2551) prior to occupying an intersection. See section 19 of the specifications. All street striping altered or destroyed shall be replaced by Contractor to location and in kind as existing at no additional cost to the Owner.
- When abutting existing pavement to new, sawcut existing pavement to a straight edge and at a right angle, or as approved by the field Engineer. Removal of broken or cracked pavement will also be required.
- Existing curb and gutter not to be removed under the contract which is damaged or displaced by the Contractor shall be removed and replaced by the Contractor at his expense.
- All final backfill for trenches shall be compacted to a minimum 90% maximum density per ASTM D-1557 and as directed by section 701.14.2 and standard drawing number 2315.
- The Contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street or into any public drainage facility.
- Proposed waterline materials shall be either PVC pipe meeting AWWA C900 requirements (6"-12") or ductile iron pipe, thickness class 50 (6"-16").
- All sanitary sewer line stationing refers to sanitary sewer centerline stationing.
- All fittings on waterlines shall have restrained joints as noted on the plans.
- Contractor shall support all existing, underground utility lines which become exposed during construction. Payment for supporting work shall be incidental to water-line and/or sewerline costs.
- Contractor shall assist the Engineer/Inspector in the recording of data on all utility lines and accessories as required by the City of Albuquerque for the preparation of record drawings. Contractor shall not cover utility lines and accessories until all data has been recorded.
- The Contractor is responsible for protecting and maintaining all existing monumentation controls. In the event of inadvertent destruction or alteration, the Contractor must immediately notify the City Chief Surveyor.
- PNM will provide at no cost to the City or the Contractor the required personnel for inspection or observation deemed necessary by PNM while the Contractor is exposing PNM's cables. However, the Contractor shall be charged the total cost associated with repairs to any damaged cables or for any cost associated with supporting or relocating the poles and cables during construction.
- 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.

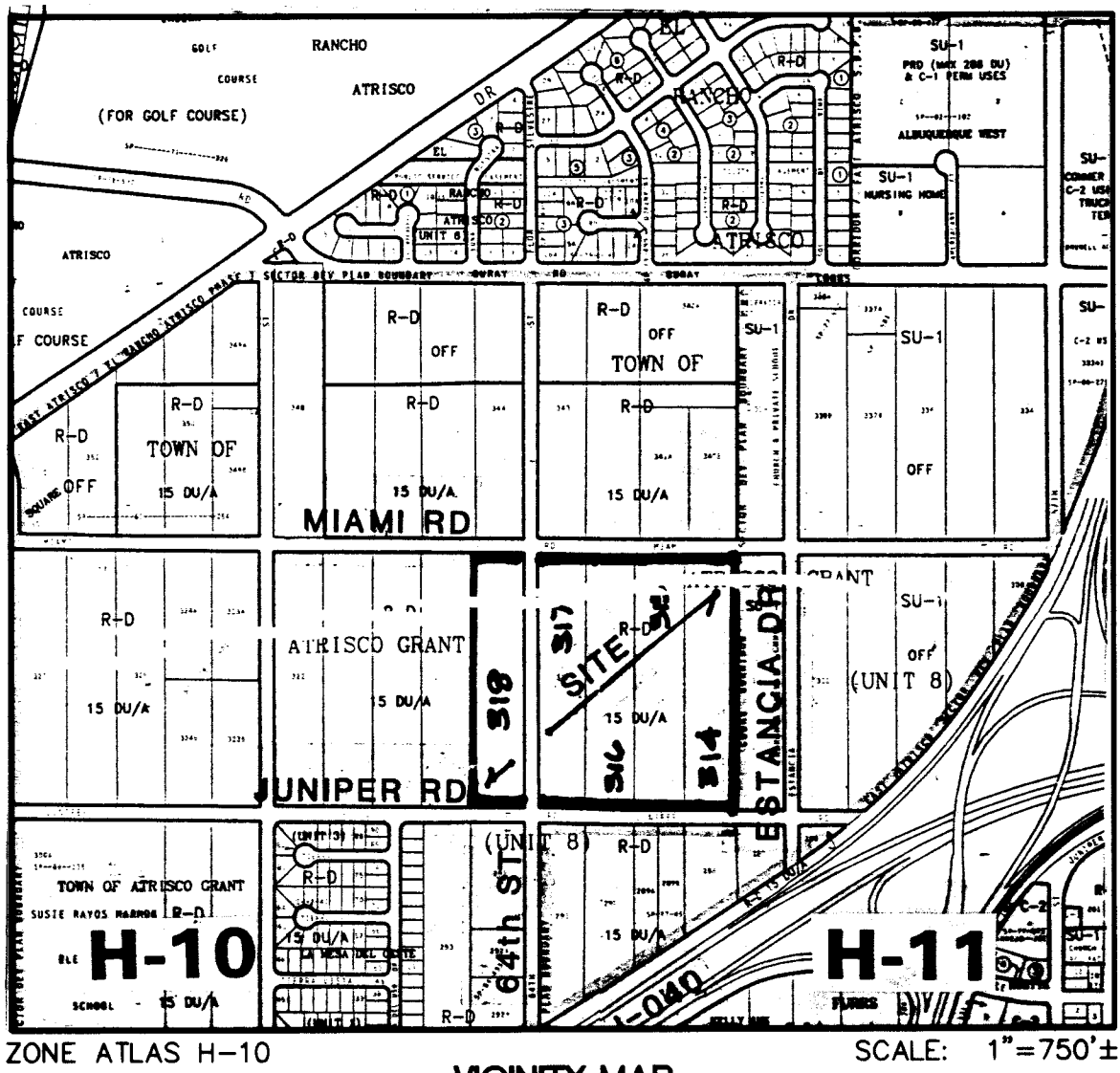
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	52	10	10	10	10	10	10	10	10	10	10	10	10	10

SCANNED BY
BY LASON



ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
8421CVR.DWGnew 5/25/95
PROJECT NO. 5218.90

APPROVED FOR
CONSTRUCTION
R. B. Ruff
8/4/95
SHEET 1 OF 15

**SUBDIVISION DATA / NOTES**

- BEARINGS ARE GRID BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE).
- DISTANCES ARE GROUND DISTANCES.
- BEARINGS AND DISTANCES IN PARENTHESIS ARE RECORD.
- BASIS OF BOUNDARY ARE THE FOLLOWING PLATS OF RECORD ENTITLED:

"PLAT SHOWING A PORTION OF TRACTS ALLOTTED FROM TOWN OF ATRISCO GRANT" FILED DECEMBER 5, 1944 IN VOLUME D, FOLIO 117,
 "REPLAT OF TRACTS 323 AND 324, UNIT NO. 8, TOWN OF ATRISCO GRANT" FILED SEPTEMBER 7, 1978 IN VOLUME C13, FOLIO 192,
 "DIVISION OF TRACT 349 IN UNIT NO. 8, TOWN OF ATRISCO GRANT" FILED AUGUST 11, 1976 IN VOLUME B11, FOLIO 168,
 "SUMMARY PLAT FOR ANNEXATION PURPOSES, LOTS 349, 350, 351, 352, 353 OF UNIT 8, TOWN OF ATRISCO GRANT" FILED OCTOBER 6, 1982 IN VOLUME C20, FOLIO 61,
 "PLAT OF LA MESA DEL OESTE SUBDIVISION, UNIT THREE" FILED MAY 17, 1993 IN VOLUME 93C, FOLIO 135.

RECORDS OF BERNALILLO COUNTY, NEW MEXICO AND THE FOLLOWING UNFILED MAP ENTITLED "TOWN OF ATRISCO GRANT, A CORPORATION" DATED JULY 1961.
- FIELD SURVEY PERFORMED DECEMBER 15, 1994.
- THESE TRACTS ARE AFFECTED BY A RIGHT-OF-WAY EASEMENT TO AMERICAN TELEPHONE AND TELEGRAPH COMPANY, DATED DECEMBER 13, 1929, RECORDED IN BOOK 112, PAGE 290, SAID EASEMENT AMENDED BY A MODIFICATION EASEMENT, DATED JANUARY 31, 1973, RECORDED IN BOOK MISC. 298, PAGE 635, SAID EASEMENT ASSIGNED TO THE MOUNTAIN STATES TELEPHONE AND TELEGRAPH COMPANY BY ASSIGNMENT DATED DECEMBER 26, 1974, RECORDED IN BOOK MISC. 575, PAGE 928, ALL BEING RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
- GROSS ACREAGE: 26.4302 ACRES.
- NUMBER OF EXISTING TRACTS: 5 AND EXISTING 64th STREET RIGHT OF WAY
- NUMBER OF TRACTS/LOTS CREATED: 3 TRACT/76 LOTS.
- MILEAGE OF STREETS CREATED: 0.390 MILES.
- CITY STANDARD UTILITY NOTE II:
 "CITY OF ALBUQUERQUE WATER AND SANITARY SEWER SERVICE TO SUMMER RAY UNIT ONE MUST BE VERIFIED AND COORDINATED WITH THE PUBLIC WORKS DEPARTMENT, CITY OF ALBUQUERQUE."
- Δ = SET FOUR INCH (4") ALUMINUM ALLOY CAP, STAMPED "CITY OF ALBUQUERQUE", "CENTERLINE MONUMENTATION", "SURVEY MARKER", "DO NOT DISTURB", PLS #7719.

LEGAL DESCRIPTION

A tract of land situate within the Town of Atrisco Grant, projected Section 10 and 11, Township 10 North, Range 2 East, New Mexico Principal Meridian within the City of Albuquerque, Bernalillo County, New Mexico being all of TRACT 314, 315, 316, 317 and 318 UNIT NO. 8, TOWN OF ATRISCO GRANT as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico on December 5, 1944 in Volume D, Folio 117 together with a portion of 64th Street N.W. and being more particularly described as follows:

BEGINNING at the northwest corner of the herein described tract, said point being common with the northeast corner of TRACT 319, UNIT NO. 8, TOWN OF ATRISCO GRANT, and further being on the south right-of-way line of Miami Road N.W. from whence the Albuquerque Central Survey Monument "2-H10" bears N 72° 16'58" E, 215.24 feet;

THENCE along said right-of-way line S 89° 22'35" E, 1110.19 feet to the northeast corner, said point being common with the northwest corner of TRACT 313, UNIT NO. 8, TOWN OF ATRISCO GRANT;

THENCE leaving said right-of-way line S 00° 37'42" W, 1037.12 feet to the southeast corner, said point being common with the southwest corner of said TRACT 313 and further being on the north right-of-way line of Juniper Road N.W.;

THENCE along said right-of-way line N 89° 21'59" W, 1110.20 feet to the southwest corner, said point being common with the southeast corner of said TRACT 319;

THENCE leaving said right-of-way line N 00° 37'44" E, 1036.92 feet to the point of beginning and containing 26.4302 acres more or less.

DISCLOSURE STATEMENT

THE PURPOSE OF THIS PLAT IS TO SUBDIVIDE FIVE (5) EXISTING TRACTS AND A VACATED PORTION OF 64th ST. N.W. INTO 76 RESIDENTIAL LOTS (UNIT ONE), AND TWO TRACTS--A & B (UNIT TWO), AND TO GRANT TEMPORARY DRAINAGE EASEMENTS AND DEDICATE PUBLIC ROADWAYS TO THE CITY OF ALBUQUERQUE, TO GRANT THOSE EASEMENTS NECESSARY TO PROVIDE SERVICE TO THE RESIDENTIAL DEVELOPMENT, AND TO SATISFY THE CONDITIONS OF VACATING 64th ST. AND THOSE IDENTIFIED EASEMENTS.

FREE CONSENT AND DEDICATION

THE SUBDIVISION SHOWN HEREON IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNER(S) AND/OR PROPRIETOR(S) THEREOF AND SAID OWNER(S) AND/OR PROPRIETOR(S) DO HEREBY DEDICATE ALL STREETS AND PUBLIC RIGHTS-OF-WAY SHOWN HEREON TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE WITH WARRANTY COVENANTS AND DO HEREBY GRANT: ALL ACCESS, UTILITY AND DRAINAGE EASEMENTS SHOWN HEREON INCLUDING THE RIGHT TO CONSTRUCT, OPERATE, INSPECT, AND MAINTAIN FACILITIES THEREIN; AND ALL PUBLIC UTILITY EASEMENTS SHOWN HEREON FOR THE COMMON AND JOINT USE OF GAS, ELECTRICAL POWER AND COMMUNICATION SERVICES FOR BURIED DISTRIBUTION LINES, CONDUITS, AND PIPES FOR UNDERGROUND UTILITIES WHERE SHOWN OR INDICATED, AND INCLUDING THE RIGHT OF INGRESS AND EGRESS FOR CONSTRUCTION AND MAINTENANCE, AND THE RIGHT TO TRIM INTERFERING TREES AND SHRUBS. SAID OWNER(S) AND/OR PROPRIETORS(S) DO HEREBY CONSENT TO ALL OF THE FOREGOING AND DO HEREBY CERTIFY THAT THIS SUBDIVISION IS THEIR FREE ACT AND DEED.

OWNERS

ARGUS DEVELOPMENT CO.

BEN F. SPENCER, PRESIDENT OF
 ARGUS DEVELOPMENT CO., GENERAL PARTNER
 OF SUMMER RAY LIMITED PARTNERSHIP

ACKNOWLEDGEMENT

STATE OF NEW MEXICO } SS
 COUNTY OF BERNALILLO }

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON _____
 1995, BY BEN F. SPENCER, AS PRESIDENT OF ARGUS DEVELOPMENT CO., GENERAL PARTNER OF SUMMER RAY LIMITED PARTNERSHIP, A NEW MEXICO LIMITED PARTNERSHIP, ON BEHALF OF SAID PARTNERSHIP.

MY COMMISSION EXPIRES: _____

NOTARY PUBLIC

PLAT OF SUMMER RAY UNIT ONE

TOWN OF ATRISCO GRANT
 PROJECTED SECTION 10, T.10 N., R.2 E.
 ALBUQUERQUE NEW MEXICO
 JULY 1995

APPROVALS S-95-2 DRB NO. 94-614

PUBLIC SERVICE COMPANY OF NEW MEXICO	DATE
GAS COMPANY OF NEW MEXICO	DATE
U.S. WEST COMMUNICATIONS	DATE
JONES INTERCABLE	DATE
CITY SURVEYOR, ENGR. DIV., P.W.D.	DATE
TRAFFIC ENGINEERING, TRANS. DEV. DIV., P.W.D.	DATE
PARKS & GENERAL SERVICES DEPARTMENT	DATE
UTILITY DEVELOPMENT DIV., P.W.D.	DATE
REAL PROPERTY DIVISION, D.F.M.	DATE
A.M.A.F.C.A.	DATE
CITY ENGINEER, PUBLIC WORKS DEPT.	DATE

APPROVAL AND CONDITIONAL ACCEPTANCE AS SPECIFIED BY THE ALBUQUERQUE SUBDIVISION ORDINANCE, ARTICLE XI OF THE REVISED ORDINANCES OF ALBUQUERQUE, N.M.

CITY PLANNER, ALBUQUERQUE PLANNING DIVISION DATE

SURVEYOR'S CERTIFICATION

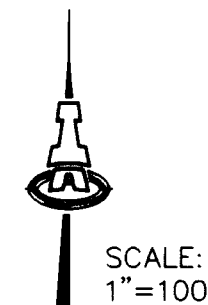
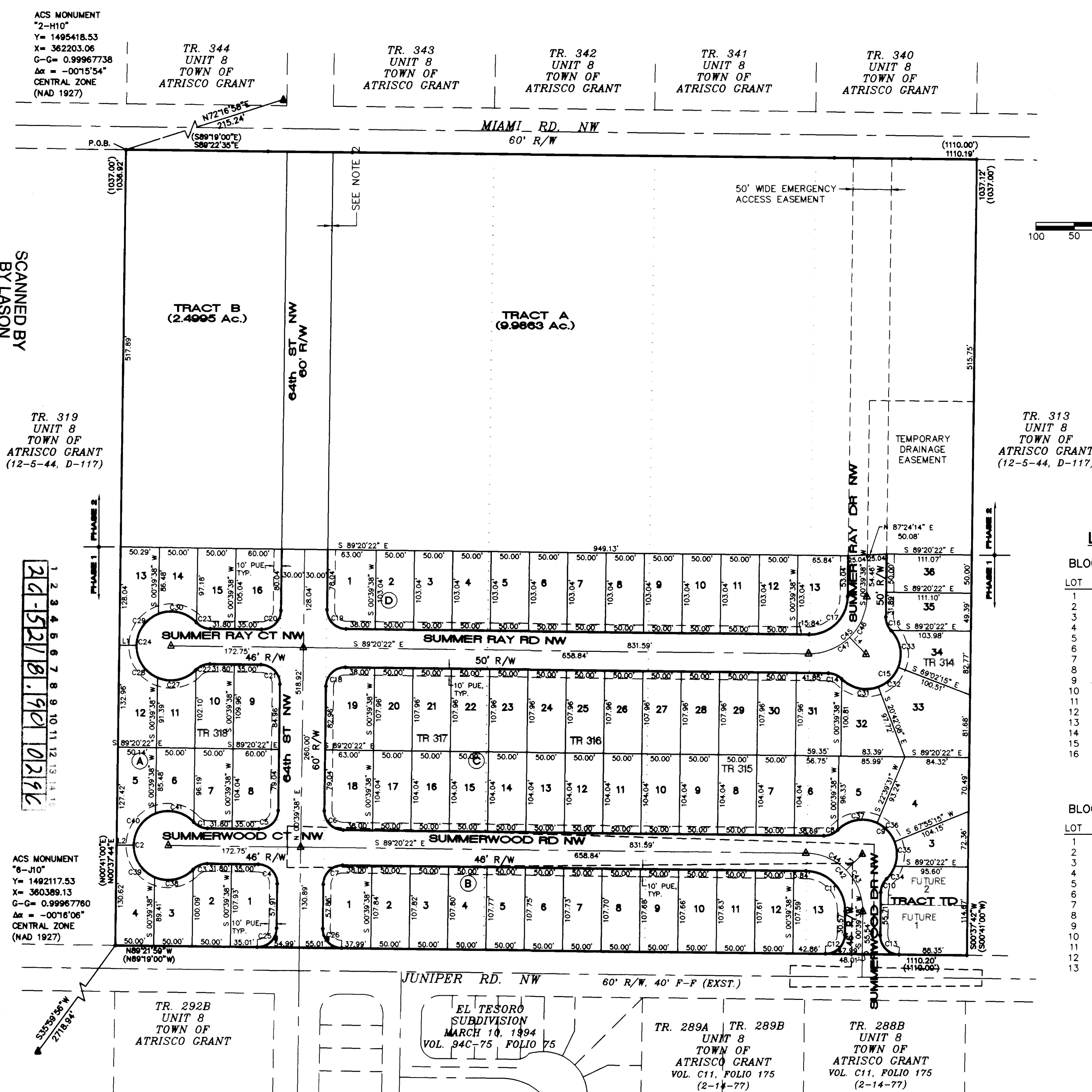
"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that this plat and description were prepared by me or under my supervision, shows all easements as shown on the plat of record or made known to me by the owners and/or proprietors of the subdivision shown hereon, utility companies and other parties expressing an interest and meets the minimum requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and further meets the Minimum Standards for Land Surveying in the State of New Mexico (Effective November 1, 1989 and revisions effective December 25, 1991 and February 2, 1994), and is true and correct to the best of my knowledge and belief."

Timothy Aldrich, P.S. No. 7719 Date

SHEET 1 OF 2

PLAT OF SUMMER RAY UNIT ONE

TOWN OF ATRISCO GRANT
 PROJECTED SECTION 10, T.10 N., R.2 E.
 ALBUQUERQUE NEW MEXICO
 JULY 1995

**LOT AREA TABLE**

BLOCK	LOT	AREA
BLOCK A	1	6207
	2	5353
	3	4461
	4	5712
	5	5540
	6	4265
	7	5158
	8	6108
	9	6463
	10	5453
	11	4560
	12	5838
	13	5600
	14	4315
	15	5208
	16	6168
BLOCK B	1	6527
	2	5392
	3	5390
	4	5389
	5	5388
	6	5387
	7	5386
	8	5385
	9	5383
	10	5382
	11	5381
	12	5380
	13	6584
BLOCK C	1	6207
	2	5353
	3	4947
	4	5883
	5	5861
	6	5202
	7	5202
	8	5202
	9	5202
	10	5202
	11	5202
	12	5202
	13	5202
	14	5202
	15	5202
	16	5202
BLOCK D	1	6357
	2	5152
	3	5152
	4	5152
	5	5152
	6	5152
	7	5152
	8	5152
	9	5152
	10	5152
	11	5152
	12	5152
	13	6248

LINE TABLE

LINE	DIRECTION	DISTANCE
L1	N 89°20'22" W	22.48
L2	N 89°20'22" W	22.32
L3	S 45°12'00" W	28.66
L4	N 44°20'22" W	31.07

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	25.00	20.38	10.79	19.85	S 89°20'22" E	46°42'29"
C2	45.00	214.74	42.30	61.71	S 00°39'38" E	27°52'49"
C3	25.00	20.38	10.79	19.85	S 89°20'22" W	46°42'29"
C4	25.00	39.27	25.00	35.36	N 44°20'22" E	90°00'00"
C5	25.00	39.27	25.00	35.36	N 45°39'38" E	90°00'00"
C6	25.00	39.27	25.00	35.36	N 44°20'22" E	90°00'00"
C7	25.00	39.27	25.00	35.36	N 45°39'38" E	90°00'00"
C8	25.00	20.18	10.68	19.84	N 87°32'02" E	46°15'12"
C9	45.00	142.28	447.57	90.00	N 45°00'00" E	181°09'11"
C10	25.00	19.59	10.33	19.09	S 23°08'37" W	44°54'00"
C11	25.00	61.68	52.00	71.54	N 44°20'22" W	181°09'11"
C12	25.00	39.28	24.99	35.35	N 45°39'38" E	89°58'24"
C13	25.00	39.28	25.01	35.36	S 44°21'11" E	90°01'36"
C14	25.00	19.38	10.21	18.90	N 27°07'52" W	44°24'55"
C15	45.00	140.45	4408.77	90.00	N 45°39'38" E	178°49'48"
C16	25.00	19.38	10.21	18.90	S 21°07'00" E	44°24'55"
C17	25.00	78.54	50.00	70.71	N 45°39'38" E	90°00'00"
C18	25.00	39.27	25.00	35.36	S 45°39'38" E	90°00'00"
C19	25.00	39.27	25.00	35.36	S 44°20'22" E	90°00'00"
C20	25.00	39.27	25.00	35.36	N 45°39'38" E	90°00'00"
C21	25.00	39.27	25.00	35.36	N 44°20'22" E	90°00'00"
C22	25.00	20.38	10.79	19.85	S 87°18'13" W	46°42'29"
C23	25.00	20.38	10.79	19.85	S 85°59'08" E	46°42'29"
C24	45.00	214.74	42.30	61.71	S 00°39'38" W	27°52'49"
C25	25.00	39.28	24.99	35.35	N 45°39'38" E	89°58'24"
C26	25.00	39.28	25.01	35.36	S 44°21'11" E	90°01'36"
C27	45.00	44.38	31.07	51.13	N 78°34'42" E	59°14'34"
C28	45.00	52.99	50.05	49.98	S 33°04'20" E	67°27'58"
C29	45.00	52.99	50.05	49.98	S 33°18'51" E	67°27'58"
C30	45.00	54.38	31.07	51.13	N 77°15'10" W	69°14'34"
C31	45.00	51.58	29.03	48.78	S 77°44'01" E	69°38'48"
C32	45.00	37.23	19.75	38.17	N 45°43'53" E	47°23'49"
C33	45.00	51.67	29.11	48.88	N 10°51'38" W	69°47'17"
C34	45.00	19.24	9.93	18.39	N 33°18'51" E	24°52'30"
C35	45.00	32.83	17.19	32.11	N 00°13'11" W	41°48'17"
C36	45.00	44.45	18.12	33.02	N 43°03'03" E	47°23'49"
C37	45.00	52.45	31.86	52.01	S 79°32'29" W	70°36'09"
C38	45.00	54.38	31.07	51.13	N 78°34'42" E	69°14'34"
C39	45.00	52.61	29.77	48.68	S 33°18'51" E	67°27'58"
C40	45.00	53.37	30.39	50.29	S 34°09'04" W	67°58'57"
C41	45.00	54.38	31.07	51.13	N 77°15'10" W	69°14'34"
C42	75.00	117.81	75.00	108.07	N 44°20'22" E	90°00'00"
C43	75.00	99.50	31.42	37.84	N 22°04'05" W	45°27'28"
C44	75.00	58.31	30.72	36.80	N 67°12'00" E	44°32'30"
C45	75.00	117.81	75.00	108.07	N 45°39'38" E	90°00'00"
C46	75.00	168.90	17.07	37.40	N 68°09'38" E	45°00'00"
C47	75.00	58.90	31.07	51.40	N 68°09'38" E	45°00'00"

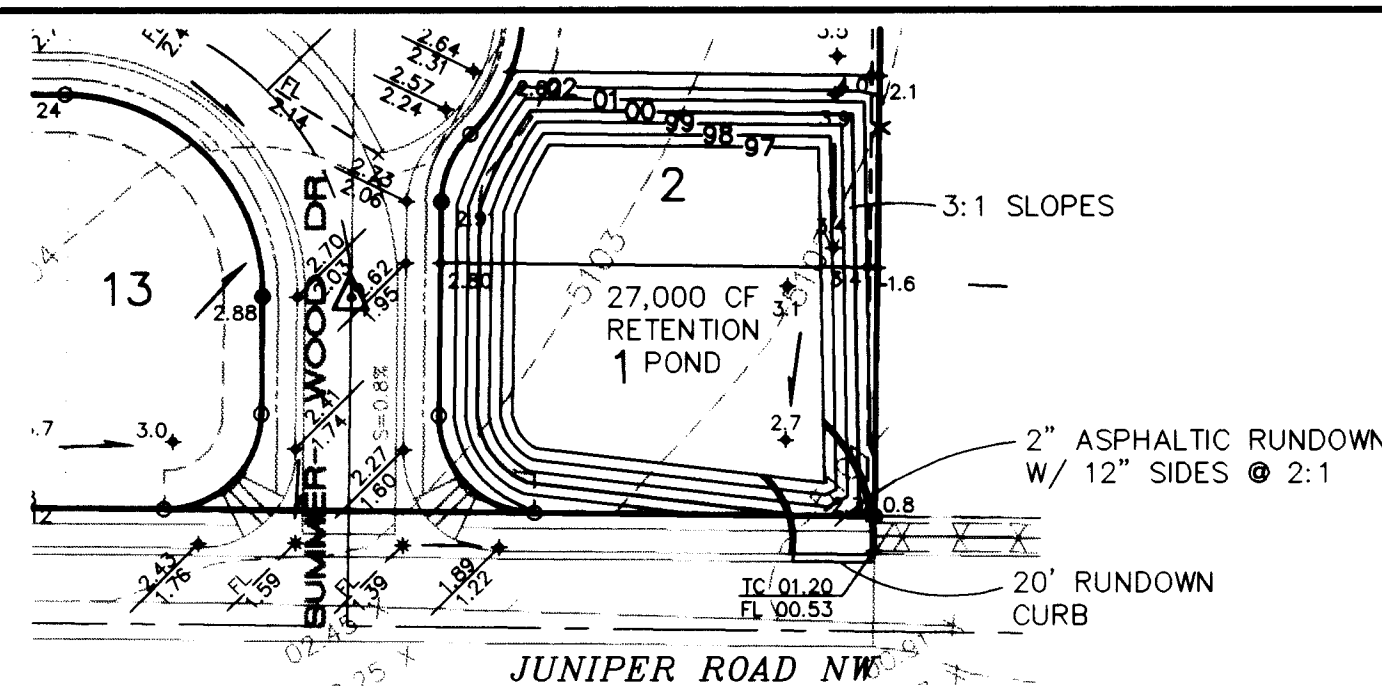
NOTES

- TRACT TD IS GRANTED TO THE CITY OF ALBUQUERQUE AS A TEMPORARY DRAINAGE EASEMENT.
- VACATION ACTION NO. 94-614 CAUSED FOR AN ALIGNMENT SHIFT OF 64th ST. FROM 0 TO 1.5 FEET.

BLOCK	LOT	AREA
BLOCK D	1	6357
	2	5152
	3	5152
	4	5152
	5	5152
	6	5152
	7	5152
	8	5152
	9	5152
	10	5152
	11	5152
	12	5152
	13	6248

SHEET 2 OF 2

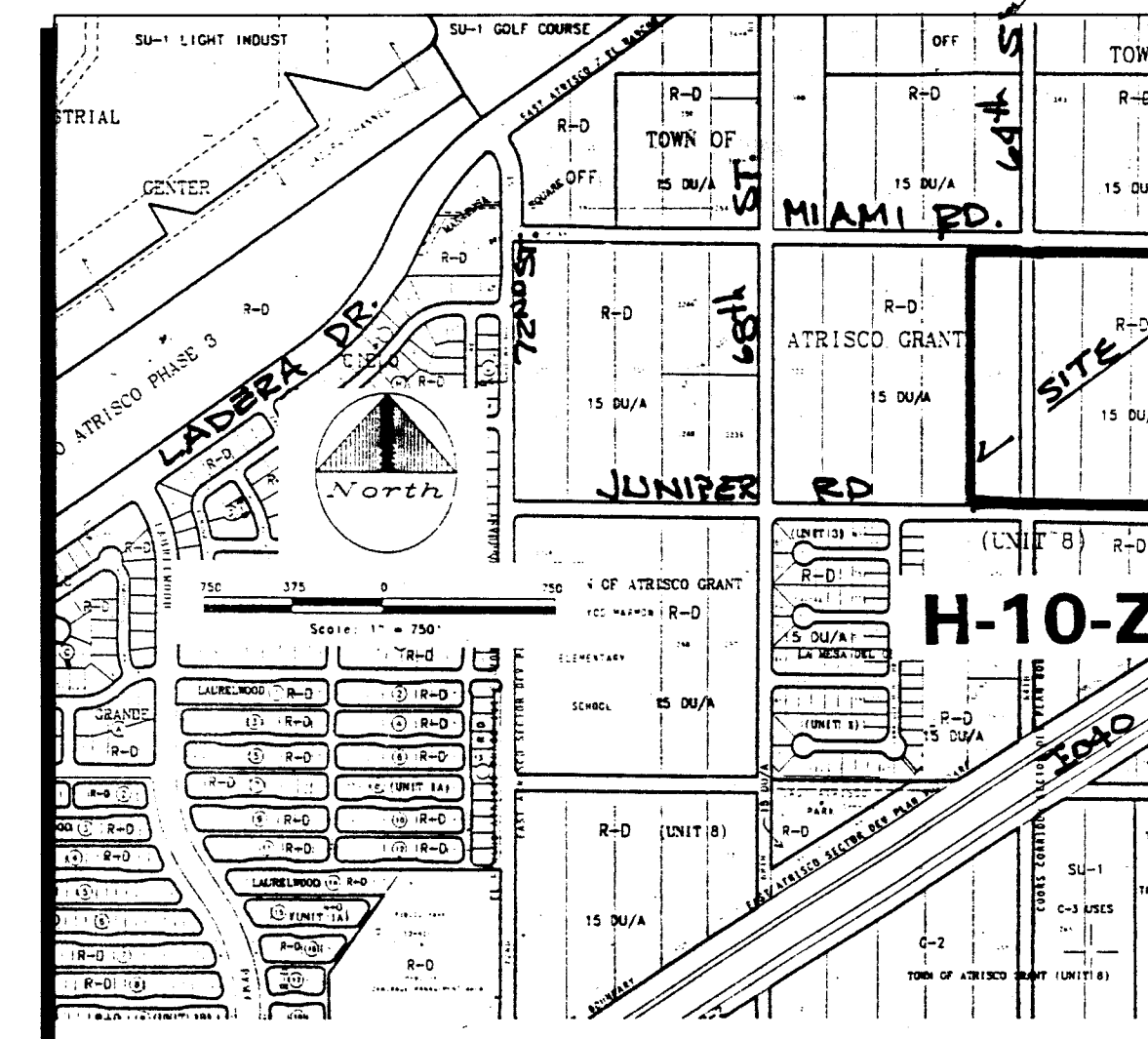
NOT APPLICABLE



POND - ALTERNATE NO. 1
DRAINAGE BASINS FOR
SUMMERWOOD ROAD & JUNIPER ROAD
1"=50'

FUTURE UNIT TWO
DEVELOPMENT

SCALE: 1"=50'



POND VOLUME
VICINITY MAP

AREA	EL	VOLUME
14,875	0	0
16,740	1	15,808 FT ³
19,176	2	33,766 FT ³
21,340	3	54,024 FT ³

LEGEND

- SET 5/8" RBR.W/CAP ALS "LS 7719"
- FND.RBR.W/CAP
- EXISTING CURB & GUTTER
- x 10.44 EXISTING SPOT ELEV.
- EXISTING CONTOUR
- RIGHT-OF-WAY
- CURB & GUTTER
- STREET CENTERLINE
- TO EL. OVER FLOWLINE EL.
- DRAINAGE BASIN BOUNDARY
- FUTURE PCC SDWK.
- 16.2 PROPOSED CONTOUR
- FL PROPOSED SPOT ELEV.
- PG: PAD GRADE
- FLOW DIRECTIONAL ARROW
- OFFSITE EARTHEN DRAINAGE SWALE

ENGINEER'S CERTIFICATION

APPROVAL FOR ROUGH GRADING (+0.1')
CONDITION: TOP SOIL DISTURBANCE PERMIT
REQUIRED PRIOR TO COMMENCING
EARTHWORK OPERATIONS

John P. Curtin 7-24-95
HYDROLOGY DIVISION
PUBLIC WORKS DEPARTMENT
CITY OF ALBUQUERQUE

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

842GRD.DWGname VIEW 1 6/29/95

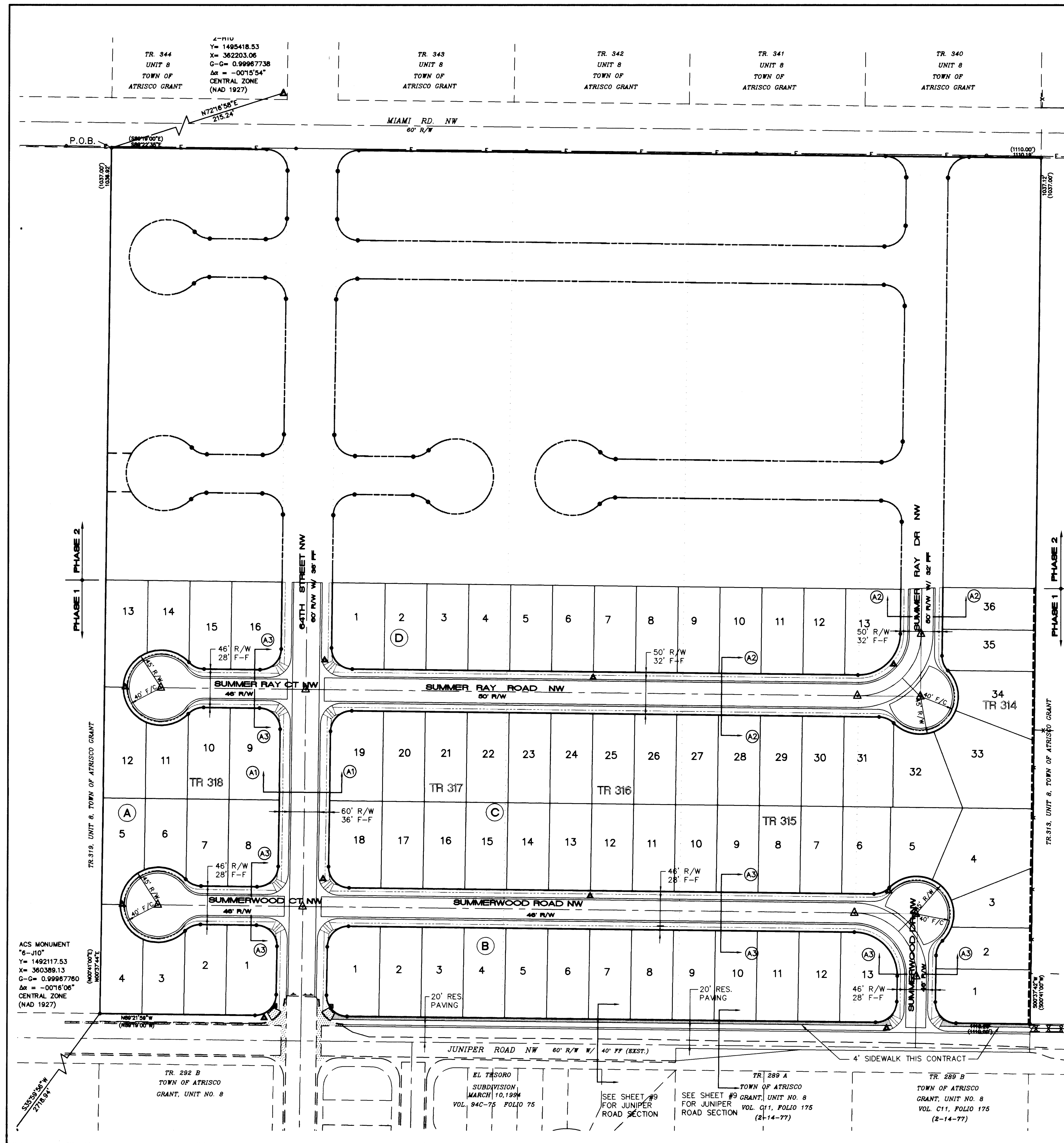
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>[Signature]</i>	8-1-95	WATER	N/A RWK	6-29-95
TRANSPORTATION	N/A		WASTE WATER	N/A RWK	6-29-95
HYDROLOGY	<i>[Signature]</i>	7-24-95			
PROJECT NO.	5218.90		MAP NO.	H-10	
			SHEET	3	OF 15

SCANNED BY
RY LASON

20-5218.90-0396



LEGEND

- EXISTING STREET IMPROVEMENTS
- PROPOSED STREET IMPROVEMENTS
- WHEEL CHAIR RAMP
- VALLEY GUTTER
- BLOCK NO.
- LOT NO.
- PROPOSED STREET LIGHT
- STORM DRAIN CATCH BASIN
- STORM DRAIN MANHOLE
- EXISTING STREET LIGHT
- SIDEWALK BY OTHERS
- SIDEWALK, THIS CONTRACT

SCALE: 1"=60'

SECTION A1
TYPICAL 60' R.O.W. RESIDENTIAL STREET SECTION
1"=10'

SECTION A2
TYPICAL 50' R.O.W. RESIDENTIAL STREET SECTION
1"=10'

SECTION A3
TYPICAL 46' R.O.W. RESIDENTIAL STREET SECTION
1"=10'

RESIDENTIAL PAVING SECTION
NTS

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
120 Monroe Street N.E.
Albuquerque, New Mexico
8421PMST.DWG 5/25/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION - UNIT 1 MASTER PAVING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	8-1-95	WATER	N/A	RWK	6-5-95
TRANSPORTATION	6-07-95	WASTE WATER	N/A	RWK	6-5-95
HYDROLOGY	7-24-95				

PROJECT NO. 5218.00 MAP NO. H-10 SHEET 4 OF 15

AS-BUILT INFORMATION

CONTRACTOR	DATE	BY	DATE	BY	DATE
SWANDE MECH. INC.	1/95	ALS	1/95	ALS	1/95
SWANDE MECH. INC.	1/95	ALS	1/95	ALS	1/95
SWANDE MECH. INC.	1/95	ALS	1/95	ALS	1/95
SWANDE MECH. INC.	1/95	ALS	1/95	ALS	1/95

BENCH MARKS

NO.	DATE	BY	DATE	BY	DATE
1	1/95	ALS	1/95	ALS	1/95

SURVEY INFORMATION

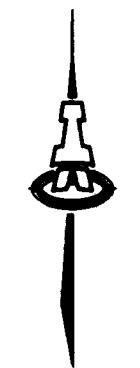
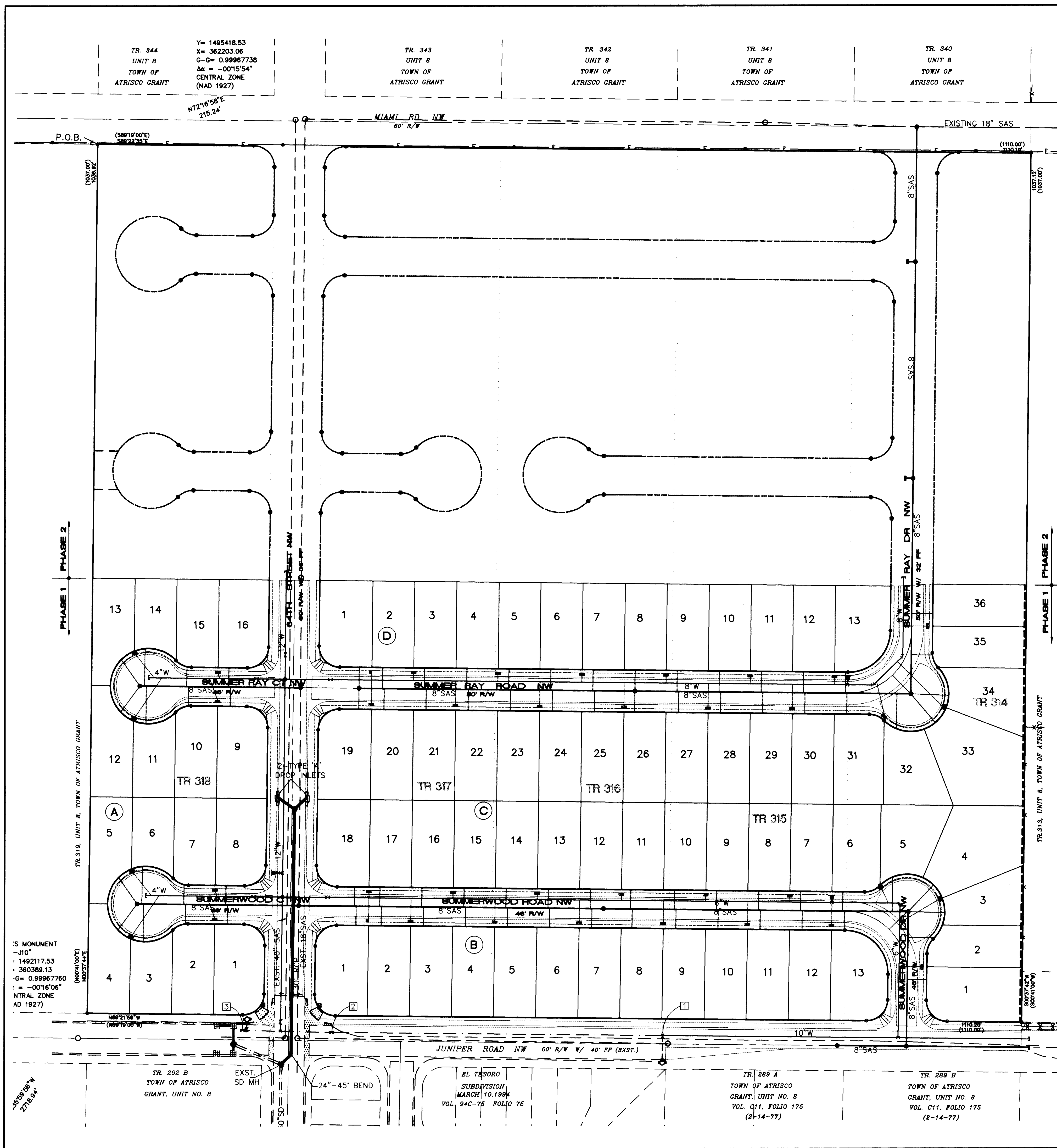
NO.	DATE	BY	DATE	BY	DATE
1	1/95	ALS	1/95	ALS	1/95

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS
1	4/95	DESIGN
2	4/95	DESIGN

DESIGNED BY JRL
DRAWN BY ANW
CHECKED BY FCA



SCALE:
1"=60'

LEGEND

- SINGLE WATER METER & BOX
- DOUBLE WATER METER & BOX
- GATE VALVE W/ TYPE 'A' VALVE BOX
- FIRE HYDRANT
- SAS MANHOLE
- WATER LINE W/ FITTING

WATER SHUT-OFF

SHUT OFF VALVES 1, 2 & 3 TO PROVIDE NON-PRESSURE CONNECTIONS.

THE CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (857-8200) 3 WORKING DAYS PRIOR TO NEEDING SHUT-OFF OR TURN-ON OF VALVES. ONLY CITY WATER SYSTEMS PERSONNEL ARE ALLOWED TO OPERATE VALVES.

Restrained Joint Lengths, L _r , for Trenches, (ft.)					
All Joints at the Tee must be restrained.					
Size	MINIMUM RUN LENGTH		MINIMUM BRANCH LENGTH		
	Run	Branch	Run	Branch	Branch
12x12x12	18	17	18	3	
12x12x10	10	18	18	1	
12x12x8	6	19	8	1	
12x12x6	3	19	6	1	
12x12x4	1	19	2	6	
10x10x10	12	18	18	8	
10x10x8	8	18	10	4	
10x10x6	4	18	6	1	
10x10x4	2	4	3	1	
8x8x8	9	20	15	3	
8x8x6	6	17	7	6	
8x8x4	2	18	3	7	
6x6x6	6	20	10	3	
6x6x4	2	20	4	7	

1. - This table is based upon the following criteria:

- Depth of bury: 2.0 ft. minimum
- Part of bedding: 1.25
- Material: PVC Pipe
- Soil Type: CHS - Silty gravel and silty sand, gravel-sand-silt mixtures.
- Test Pressure: 180 psi
- Trench Type: 4

Notes: Pipes bedded in sand, gravel, or washed stone to depth of 18 pipe diameter, 4 inch minimum height measured to top of pipe.

Notes: For all other cases, e.g., depths from pipe, greater depth of bury, etc., will require different restrained lengths. These must be calculated by a qualified Professional Engineer and approved by the Public Works Department.

Restrained Joint Lengths, L _r , for Horizontal Bends, Valves, and Dead Ends, (ft.)					
Size	Bend, Valve				Valves & Dead Ends
	90°	45°	22 1/2°	11 1/4°	
12	30	15	6	3	36
10	24	11	6	3	28
8	20	9	4	2	20
6	17	7	3	2	16
4	13	6	3	1	12

Restrained Joint Lengths, L _r , for Reducers, (ft.)					
Minimum, unrestrained, straight-run length: Restrained either large pipe, or small pipe.					
Size	Large Size	Small Size	Size	Large Size	Small Size
12 x 10	36	30	10 x 8	44	28
12 x 8	48	30	10 x 6	50	141
12 x 6	62	121	8 x 6	36	25
12 x 4	74	212	8 x 4	48	25
10 x 8	34	30	6 x 4	24	36

RESTRAINED JOINT LENGTHS FOR WATERLINE FITTINGS

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico
8421UMST.DWG 5/25/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
MASTER UTILITY PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kane	8-1-95	WATER	R.W. Kane	6-5-95
TRANSPORTATION	JAC	6-27-95	WASTE WATER	R.W. Kane	6-5-95
HYDROLOGY	JAC	7-24-95			

PROJECT NO. 5218.90

MAP NO. H-10

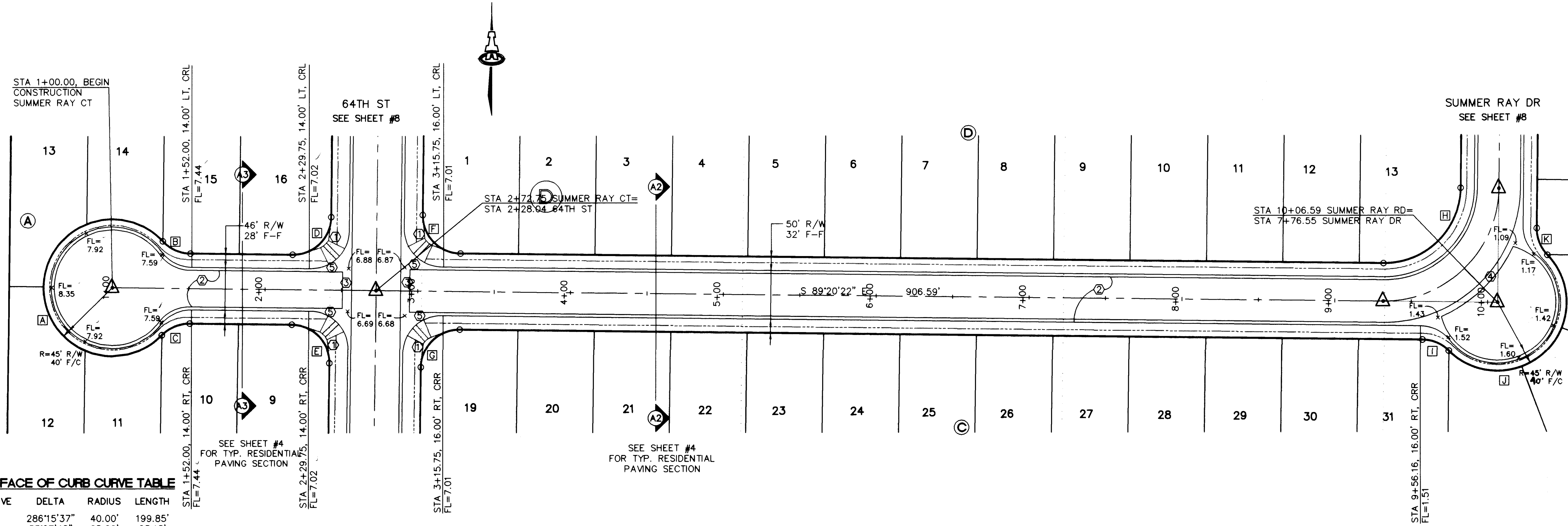
SHEET 5 OF 15

AS-BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	BY	CONTRACTOR	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
ISAACSON & ARFMAN, P.A.	5/25/95	ALS	ACS CONTROL STATION "2-H10" LOCATED AT THE NORTHWEST QUADRANT OF 64TH ST. & MIAMI RD. NW	5/25/95	ALS	1					
FIELD ENGINEER	DATE	BY									
ISAACSON & ARFMAN, P.A.	5/25/95	ALS									
MICRO-FILM INFORMATION											
RECORDED BY	DATE										

REVISIONS

NO.	DATE	REMARKS
1	4/95	DESIGN
2	4/95	
3	4/95	

CHECKED BY FCA

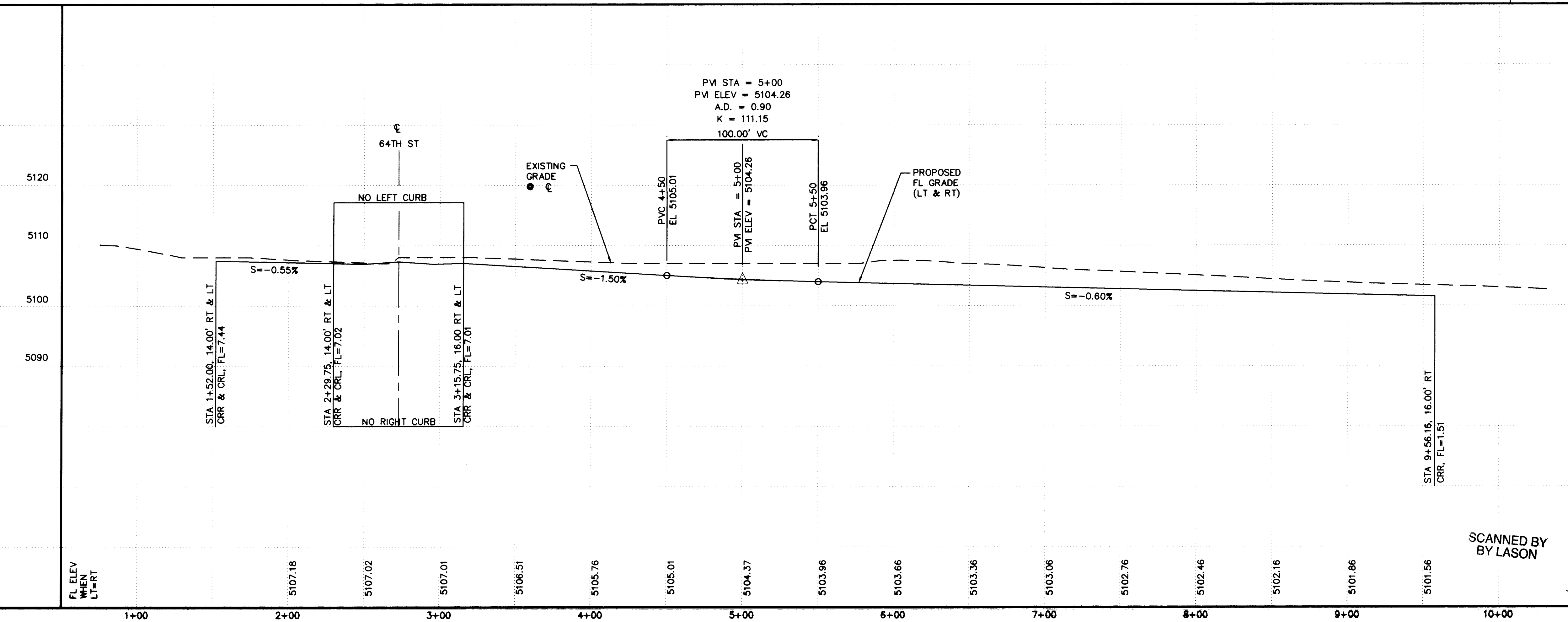


FACE OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
A	286°15'37"	40.00'	199.85'
B	53°07'48"	25.00'	23.18'
C	90°00'00"	25.00'	39.27'
D	"	"	"
E	"	"	"
F	"	"	"
G	"	"	"
H	90°00'00"	59.00'	92.68'
I	50°53'35"	25.00'	22.21'
J	191°47'10"	40.00'	133.89'
K	50°53'35"	25.00'	22.21'

SUMMER RAY COURT & SUMMER RAY ROAD

SCALES:
1"=40' HOR.
1"=10' VERT.



SCANNED BY
BY LASON

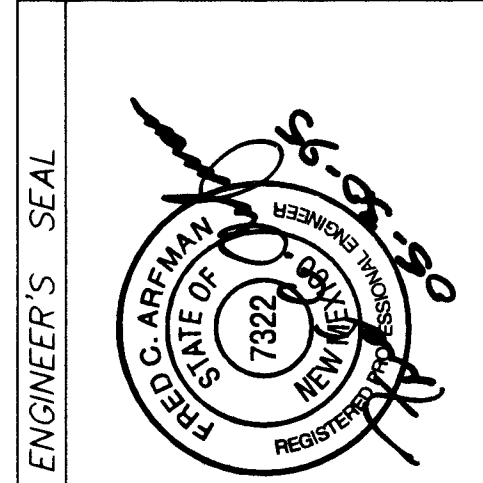
KEYED CONSTRUCTION NOTES

1. CONSTRUCT HANDICAP RAMPS PER COA STD DWG #2441, TYPE II.
2. MOUNTABLE CURB & GUTTER PER COA STD DWG #2415.
3. CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 3/4" INVERT PER COA STD DWG #2420.
4. CONSTRUCT PCC VALLEY GUTTER THRU KNUCKLE 4' WIDE, 3/4" INVERT PER COA STD DWG #2421.
5. TRANSITION FROM STD TO MOUNTABLE CURB PER COA STD DWG #2418.
6. CROWN TO NO CROWN TRANSITION 50' MIN. LENGTH.

AS-BUILT INFORMATION	
CONTRACTOR	ISAACSON & ARFMAN, P.A.
DATE	5/26/95
NO.	1

BENCH MARKS	
ACS CONTROL STATION "2-H10" LOCATED AT THE NORTHWEST QUADRANT OF 64TH ST. & MIAMI RD. NW	ELEVATION: 5108.81

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	1



ENGINEER'S SEAL	
NO.	DATE
REMARKS	BY
DESIGN	DATE 4/95
CHECKED BY	DATE 4/95

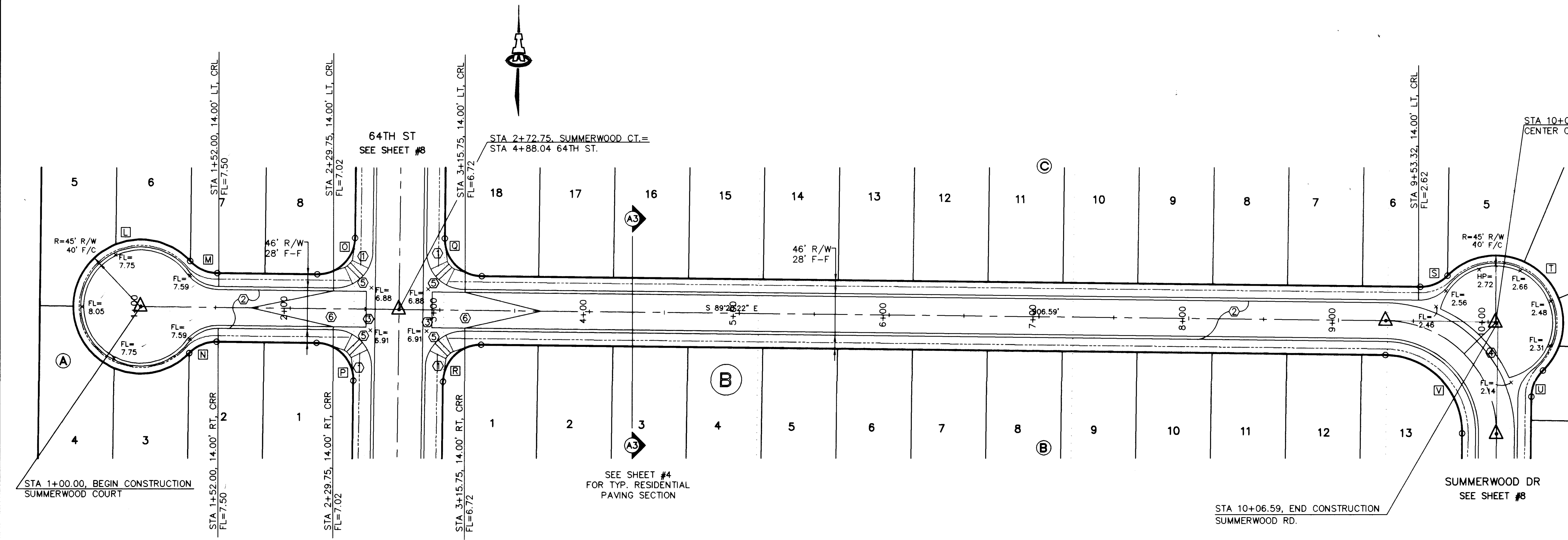
ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
8421PV1.DWG 5/26/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
SUMMER RAY CT & SUMMER RAY RD - PAVING

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	MA RDK	8-1-95	WATER	MA RDK	6-5-95
TRANSPORTATION	MA RDK	6-5-95	WASTE WATER	MA RDK	6-5-95
HYDROLOGY	JPC	7-24-95			

PROJECT NO.	5218.90	MAP NO.	H-10	SHEET	6	OF	15
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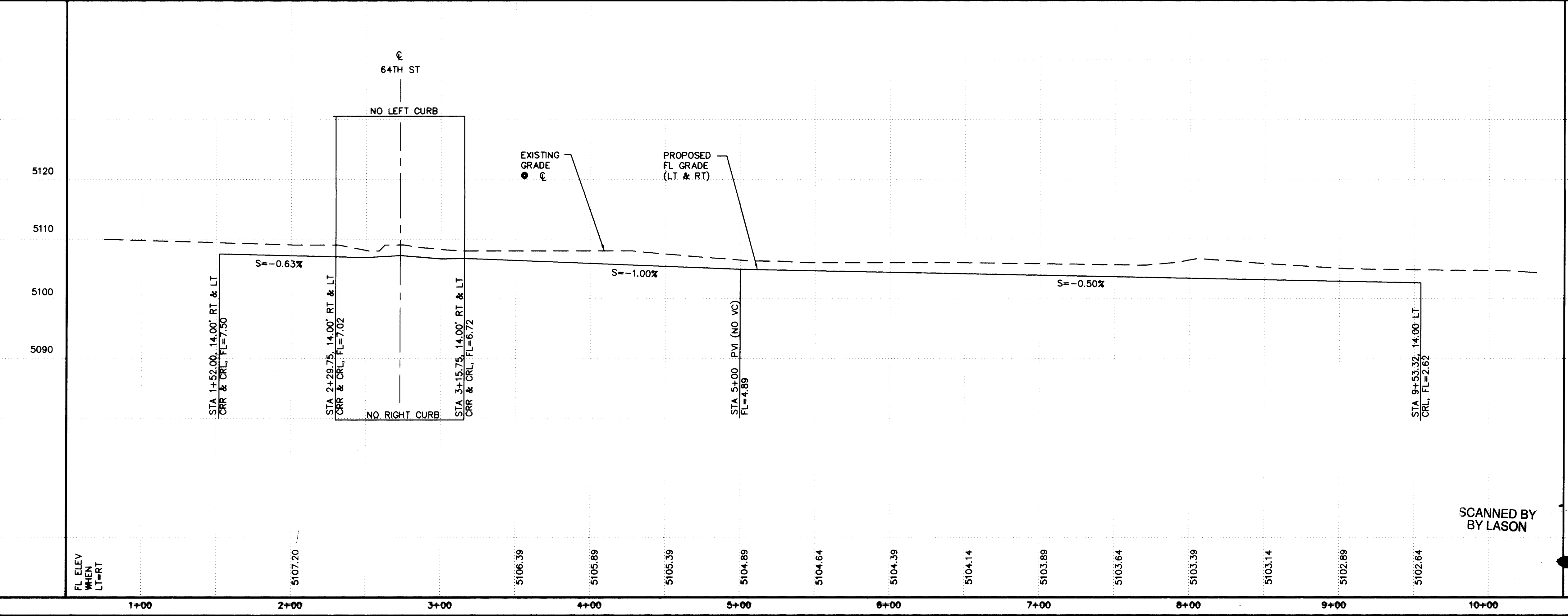


□ FACE OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
L	286°15'37"	40.00'	199.85'
M	53°07'48"	25.00'	23.18'
N	"	"	"
O	90°00'00"	25.00'	39.27'
P	"	"	"
Q	"	"	"
R	"	"	"
S	52°41'05"	25.00'	22.99'
T	194°02'56"	40.00'	135.47'
U	51°21'51"	25.00'	22.41'
V	90°00'00"	61.00'	95.82'

SUMMERWOOD COURT & SUMMERWOOD ROAD

SCALES:
1"=40' HOR.
1"=10' VERT.



- KEYED CONSTRUCTION NOTES
1. CONSTRUCT HANDICAP RAMPS PER COA STD DWG #2441, TYPE II.
 2. MOUNTABLE CURB & GUTTER PER COA STD DWG #2415.
 3. CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 3/4" INVERT PER COA STD DWG #2420.
 4. CONSTRUCT PCC VALLEY GUTTER THRU KNUCKLE 4' WIDE, 3/4" INVERT PER COA STD DWG #2421.
 5. TRANSITION FROM STD TO MOUNTABLE CURB PER COA STD DWG #2418.
 6. CROWN-NO CROWN TRANSITION, 50' MIN. LENGTH.

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STATION	DATE	NO.	BY	DATE	REMARKS
ISAACSON & ARFMAN, P.A.	5/28/95	ACS CONTROL STATION "2-H10" LOCATED AT THE NORTHWEST QUADRANT OF 64TH ST. & MIAMI RD. NW.		1	ALS		
VERIFIED BY	DATE	VERIFIED BY	DATE	NO.	DATE	REVISIONS	
VERIFIED BY	DATE	VERIFIED BY	DATE	NO.	DATE	DESIGN	
VERIFIED BY	DATE	VERIFIED BY	DATE	NO.	DATE	DESIGNED BY	JRL
VERIFIED BY	DATE	VERIFIED BY	DATE	NO.	DATE	DRAWN BY	ANW
VERIFIED BY	DATE	VERIFIED BY	DATE	NO.	DATE	CHECKED BY	FCA

26-5210-190 0796

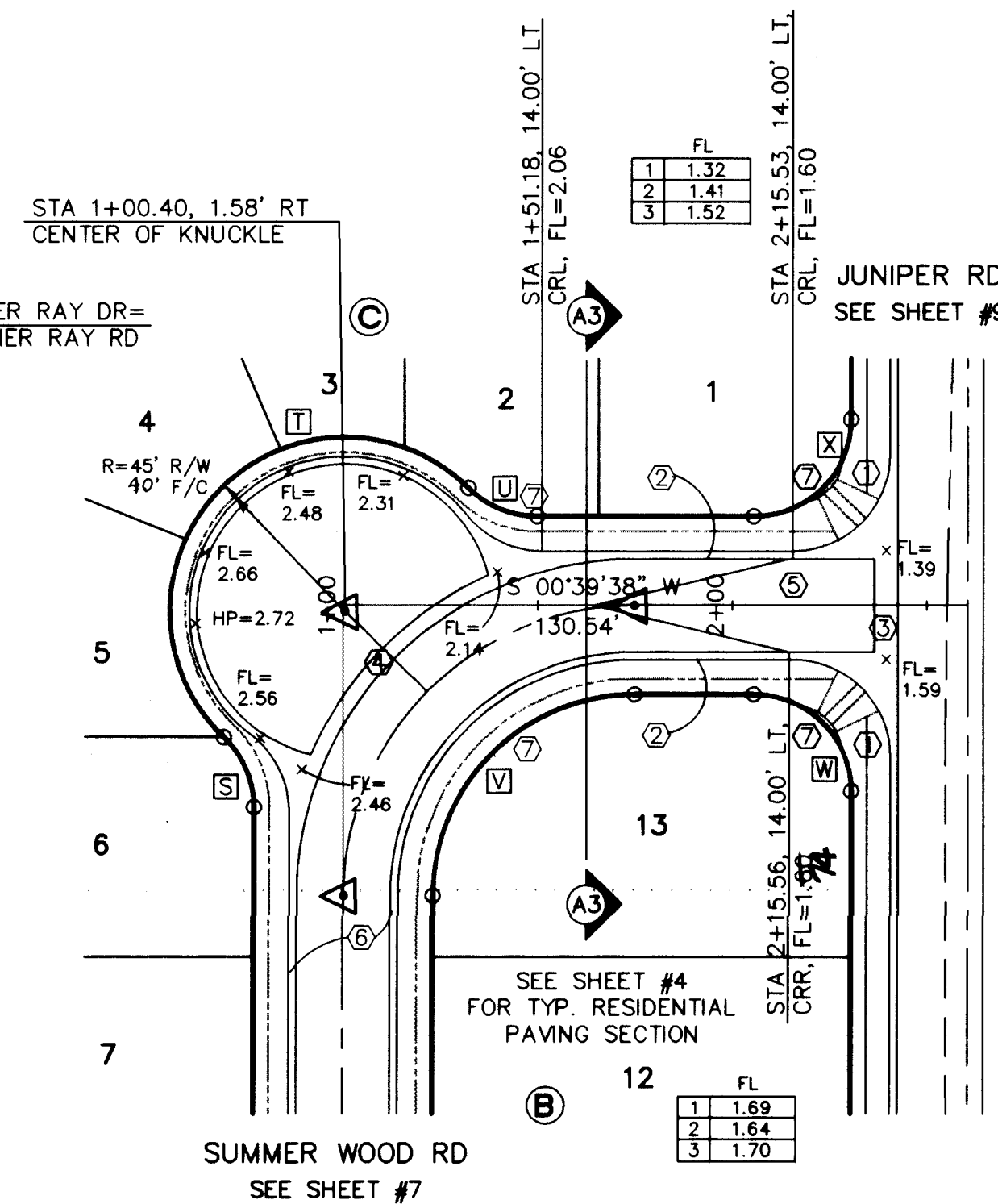
ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
123 Monroe Street N.E.
Albuquerque, New Mexico
8421PV2.DWG 5/28/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
SUMMERWOOD CT & SUMMERWOOD RD - PAVING

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	8-1-95	WATER	N/A	RUE	6-5-95
TRANSPORTATION	6-27-95	WASTE WATER	N/A	RUE	6-5-95
HYDROLOGY	7-24-95				

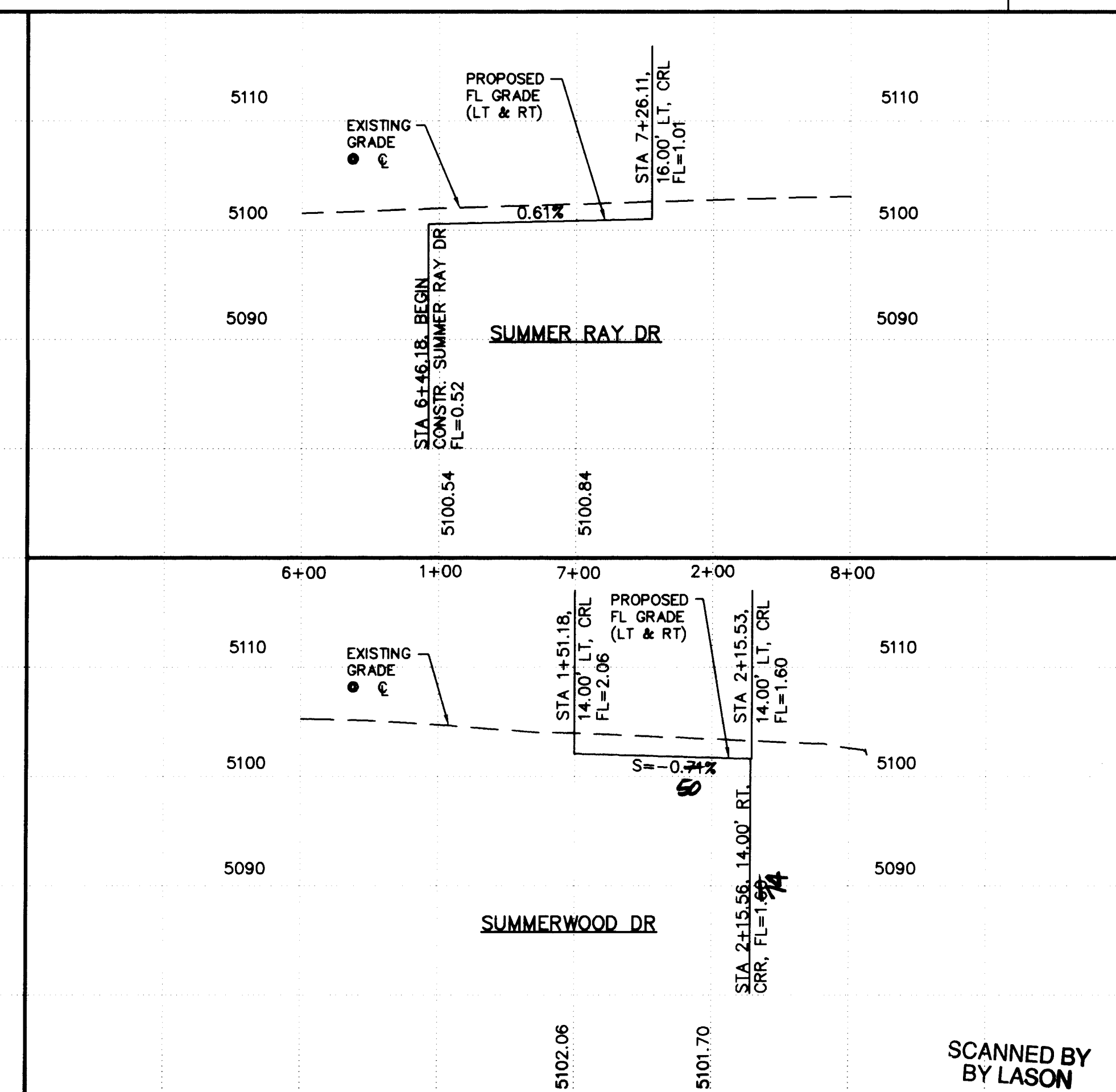
PROJECT NO. 5218.90 MAP NO. H-10 SHEET 7 OF 15



64TH ST. PCC CUTOFF WALL
2-TYPE III BARRICADES SUMMER RAY DR

64TH STREET, SUMMER RAY DRIVE & SUMMERWOOD DRIVE

SCALES:
1"=40' HOR.
1"=10' VERT.



1. CONSTRUCT HANDICAP RAMPS PER COA STD DWG #2441, TYPE II.
2. STD CURB & GUTTER PER COA STD DWG #2415.
3. CONSTRUCT PCC VALLEY GUTTER 6" WIDE, 3/4" INVERT PER COA STD DWG #2420.
4. CONSTRUCT PCC VALLEY GUTTER THRU KNUCKLE, 4" WIDE 3/4" INVERT, PER COA STD DWG #2421.
5. CROWN-NO CROWN TRANSITION, 50' MIN. LENGTH.
6. MOUNTABLE CURB & GUTTER PER COA STD DWG #2415.
7. TRANSITION FROM MOUNTABLE TO STD CURB & GUTTER PER COA STD DWG #2418.

[illegible]

 **ISAACSON & ARFMAN, P.A.**
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

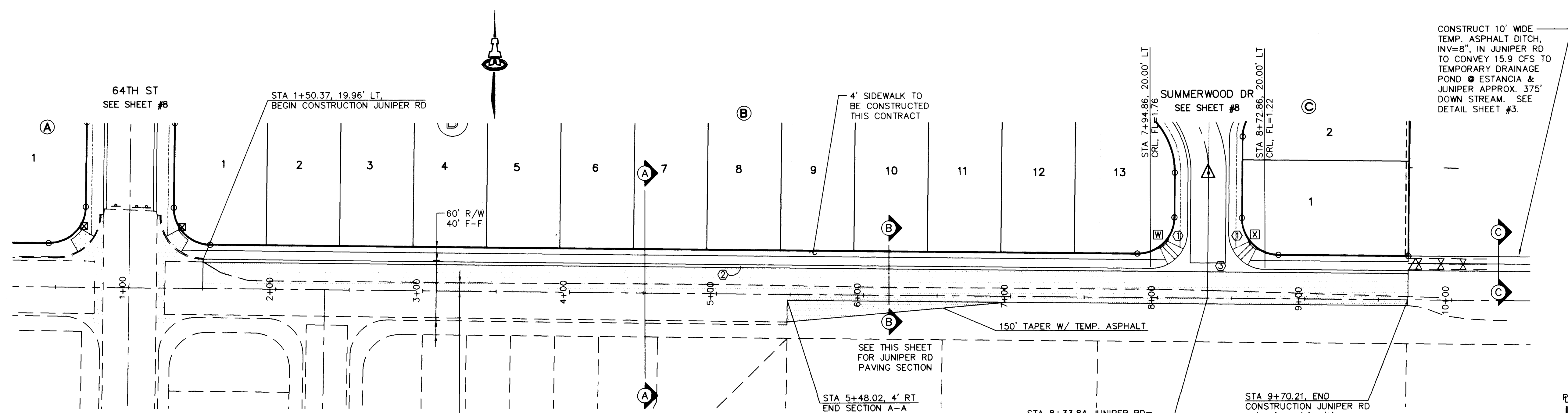
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
64TH ST, SUMMER RAY DR & SUMMERWOOD DR - P

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. G. Kelly	8-1-95	WATER	N/A RWK	6-5-95
TRANSPORTATION	R. D. Smith	6-07-95	WASTE WATER	N/A RWK	6-5-95
HYDROLOGY	JPC	7-24-95			

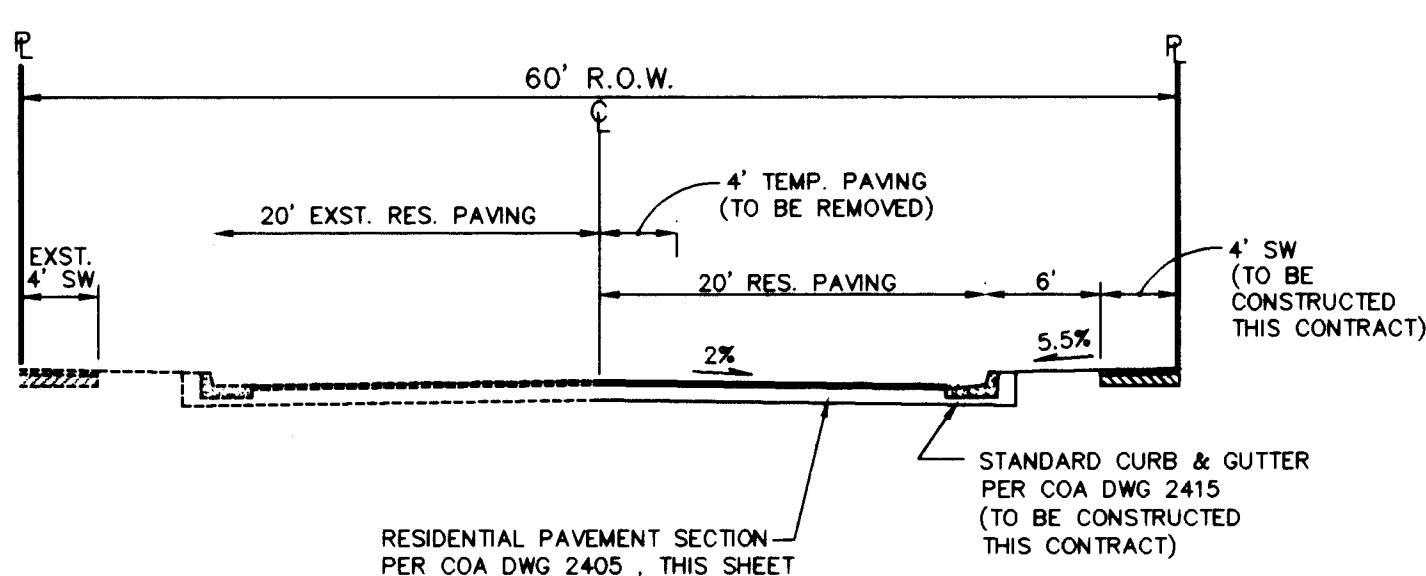
PROJECT NO.	5218.90	MAP NO.	H-10	SHEET	8	OF	15
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SCANNED BY
BY LASON

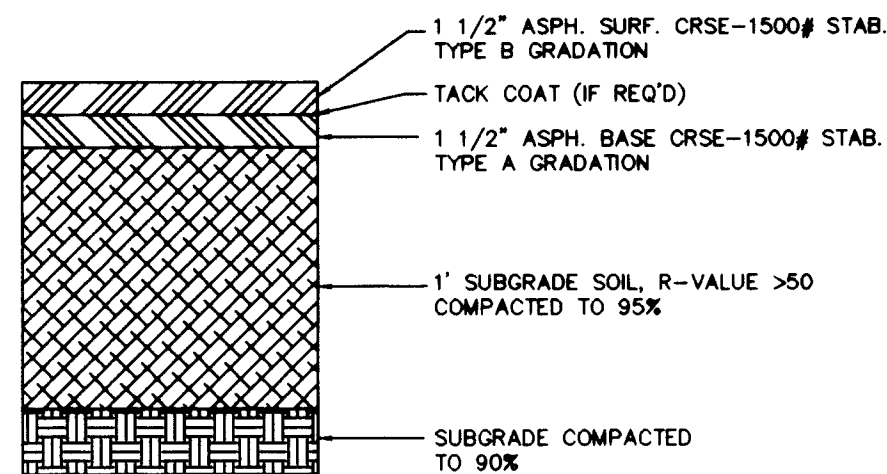


FACE OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
W	89°58'24"	25.00'	39.26'
X	90°01'36"	25.00'	39.28'

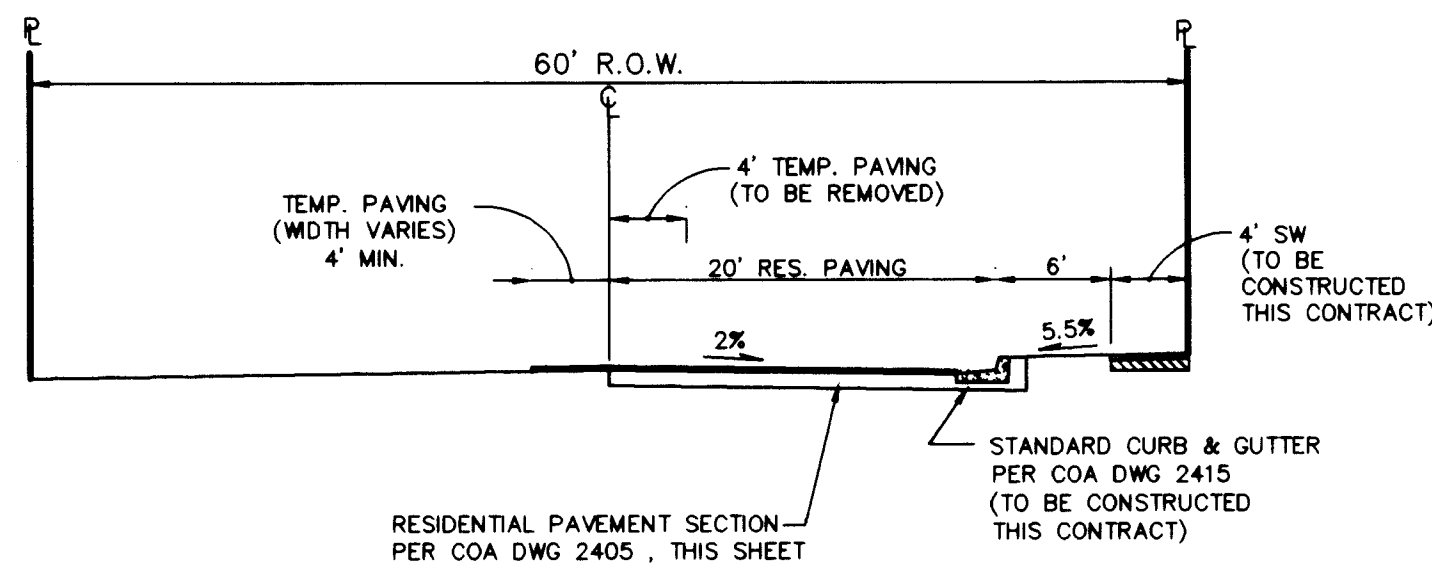


SECTION A-A
JUNIPER RD
1"=10'

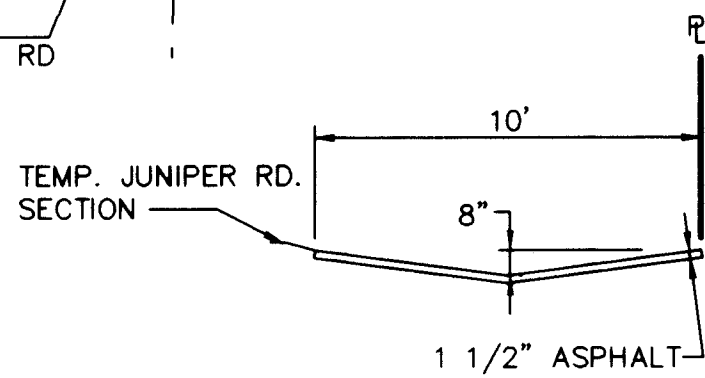


RESIDENTIAL PAVING SECTION
NTS

JUNIPER ROAD



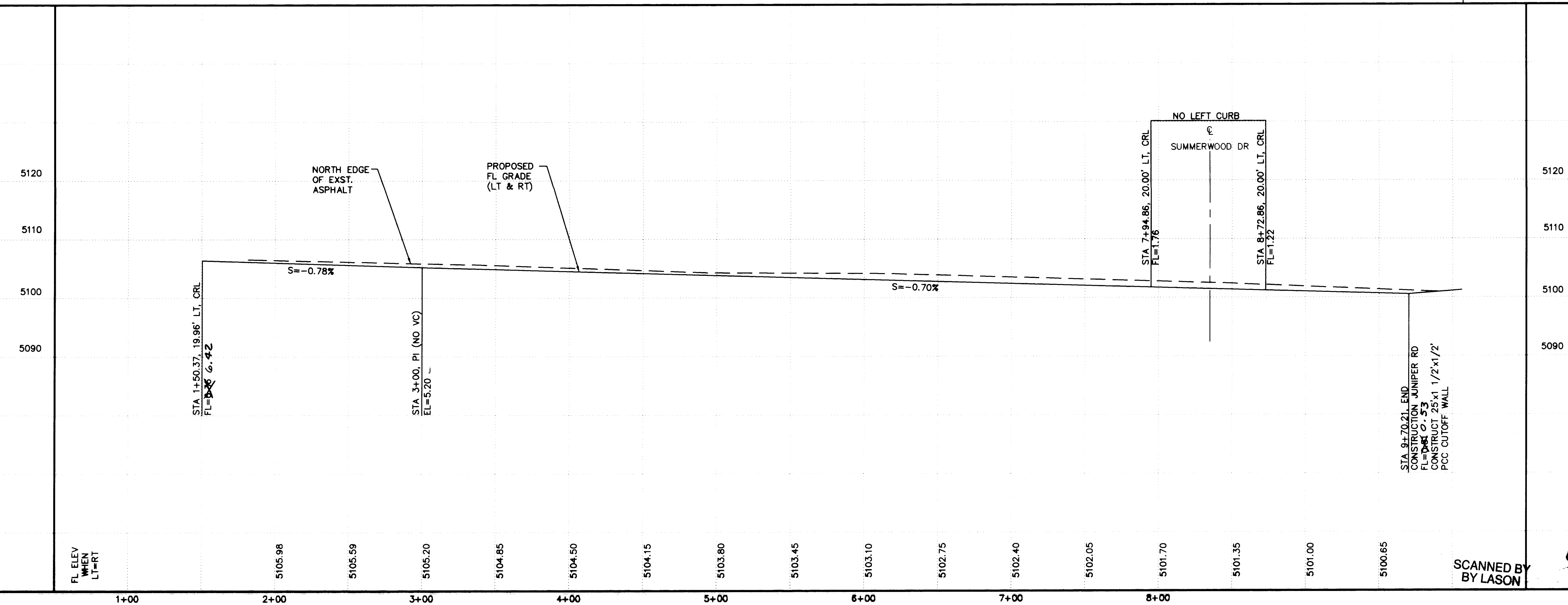
SECTION B-B
JUNIPER RD
1"=10'



SECTION C-C
TEMP. V-DITCH
NTS

$Q_{CAP} = \frac{1.49}{0.017} (3.33)(0.333)^{2/3} (0.013)^{1/2}$
= 16 CFS, OK

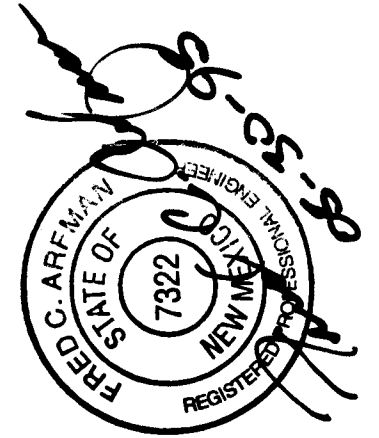
SCALES:
1"=40' HOR.
1"=10' VERT.



KEYED CONSTRUCTION NOTES

1. CONSTRUCT HANDICAP RAMPS PER COA STD DWG #2441, TYPE II.
2. STD CURB & GUTTER PER COA STD DWG #2415. (NORTH SIDE ONLY.)
3. CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 3/4" INVERT PER COA STD DWG #2420.

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
SAVAGE MECH, INC.	11/95	1	11/95	1	11/95	1	11/95
STATIONED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
SAVAGE MECH, INC.	11/95	1	11/95	1	11/95	1	11/95
REVISIONS	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DESIGNED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DRAWN BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CHECKED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE



26-52181.90 0996

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
8421PV4.DWG 5/28/95

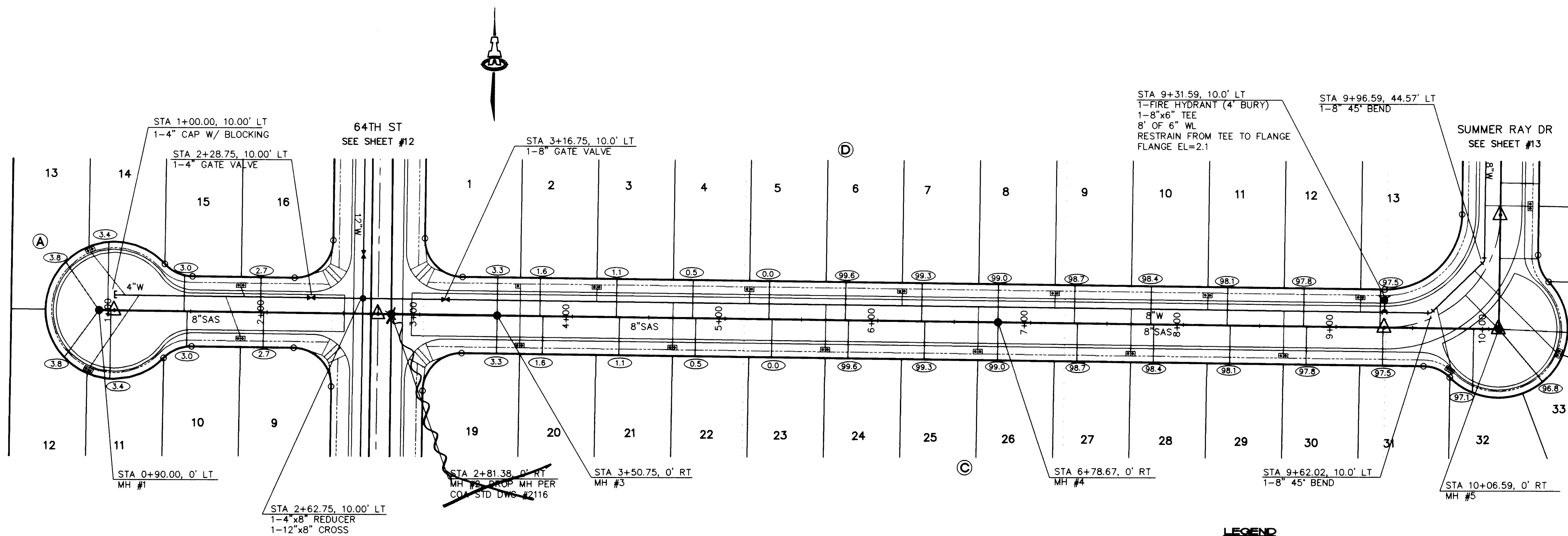
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
JUNIPER RD - PAVING

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	8-1-95	WATER	N/A	RWC	6-5-95
TRANSPORTATION	6-27-95	WASTE WATER	N/A	RWC	6-5-95
HYDROLOGY	7-24-95				

PROJECT NO. 5218.90 MAP NO. H-10 SHEET 9 OF 15

SCANNED BY
BY LASON



SUMMER RAY COURT & SUMMER RAY ROAD

LEGEND

- ⑤1.3 SAS SERVICE LINE INVERT @ R
- SINGLE WATER METER & BOX
- DOUBLE WATER METER & BOX
- +— GATE VALVE W/ TYPE 'A' VALVE BOX
- ⦿ FIRE HYDRANT
- SAS MANHOLE
- +— WATER LINE W/ FITTING

SCALES:
1"=40' HOR.
1"=10' VERT.

GENERAL NOTES

- CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
- CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
- CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG'S #2361, #2362, & #2363.
- SEE SHEET #5 FOR WATER SHUT-OFF PLAN.
- SEE SHEET #5 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.

24-5218-190 11096

SAS SERVICE TABLE

LOT NO. STA. INV. @ R/W

BLOCK A

9	1+97.75	2.7
10	1+47.75	3.0
11	0+97.75	3.4
12	15' FROM PL	3.8
13	15' FROM PL	3.8
14	0+95.75	3.4
15	1+45.75	3.0
16	1+95.75	2.7

BLOCK C

19	3+50.75	3.3
20	3+80.75	1.6
21	4+30.75	1.1
22	4+80.75	0.5
23	5+30.75	0.0
24	5+80.75	99.6
25	6+30.75	99.3
26	6+78.67	99.0
27	7+30.75	98.7
28	7+80.75	98.4
29	8+30.75	98.1
30	8+80.75	97.8
31	9+30.75	97.5
32	9+90.10	97.1
33	15' FROM PL	96.8

BLOCK D

1	3+50.75	3.3
2	3+78.75	1.6
3	4+28.75	1.1
4	4+78.75	0.5
5	5+28.75	0.0
6	5+78.75	99.6
7	6+28.75	99.3
8	6+78.67	99.0
9	7+28.75	98.7
10	7+78.75	98.4
11	8+28.75	98.1
12	8+78.75	97.8
13	9+28.75	97.5

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
84210/UTL.DWG/Jan 5/28/95

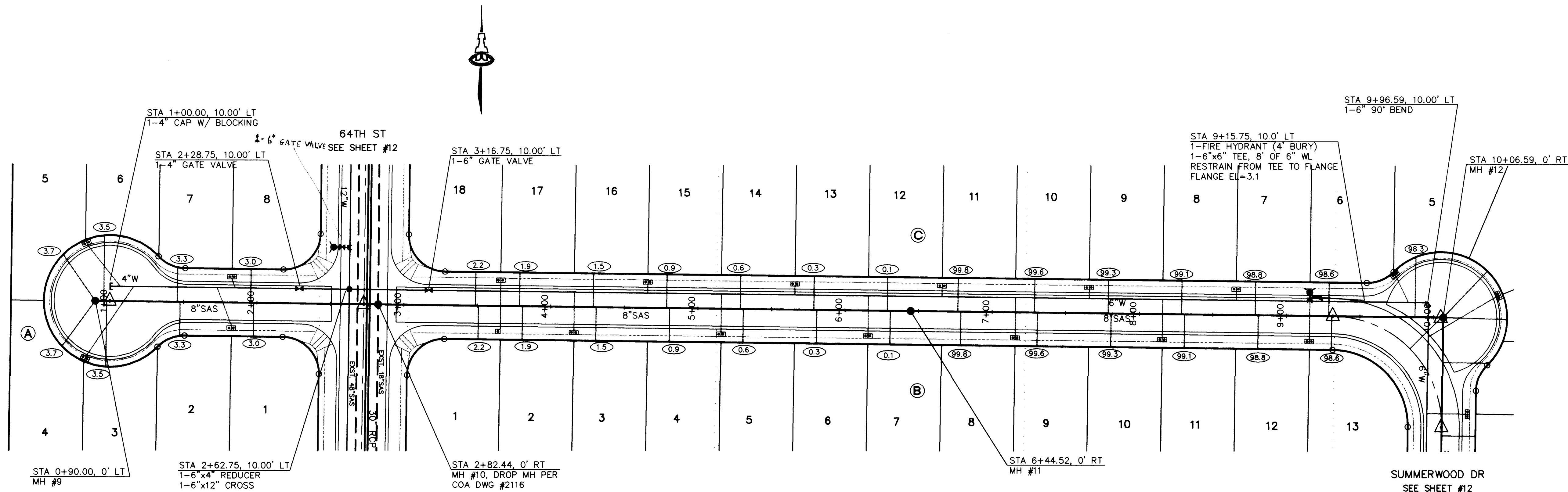
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
SUMMER RAY CT & SUMMER RAY RD - UTILITIES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kane	6-5-95	WATER	R.W. Kane	6-5-95
TRANSPORTATION	R.W. Kane	6-5-95	WASTE WATER	R.W. Kane	6-5-95
HYDROLOGY	JAC	7-27-95			

PROJECT NO. 5218.90 MAP NO. H-10 SHEET 10 OF 15

SCANNED BY
BY LASON

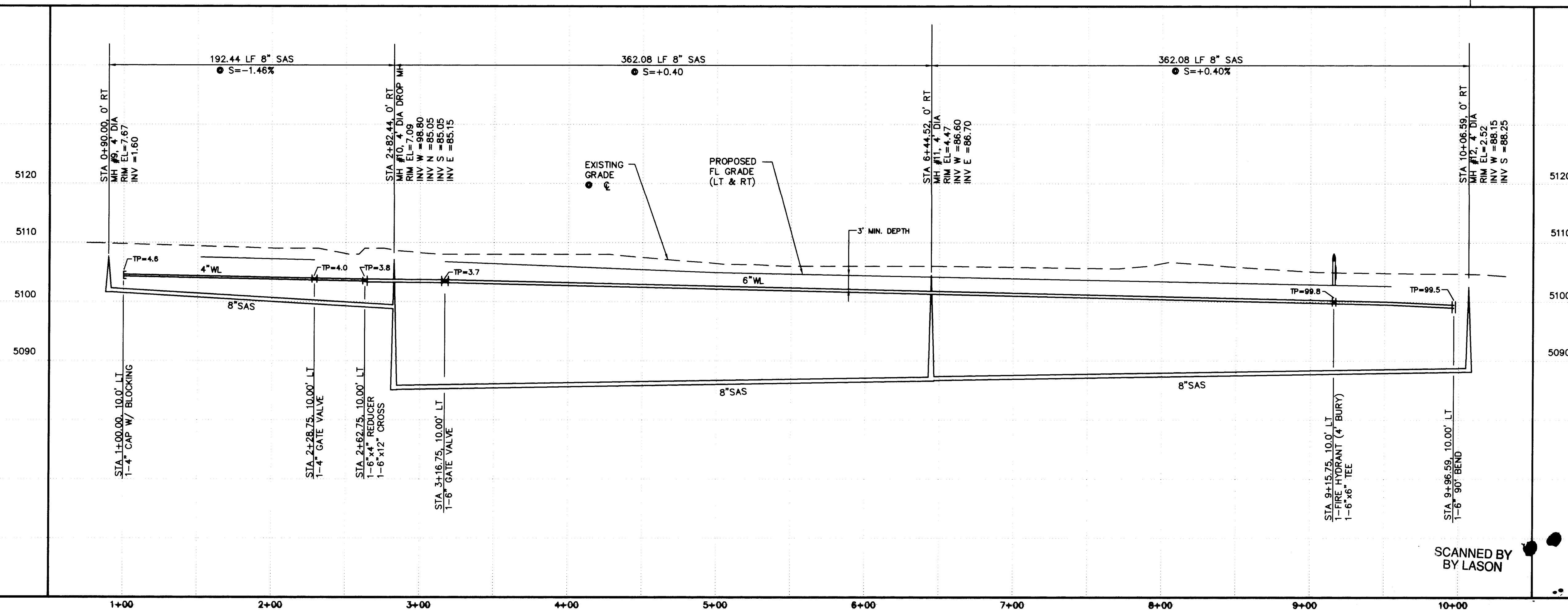


LEGEND

- 51.3 SAS SERVICE LINE INVERT @ R
- SINGLE WATER METER & BOX
- DOUBLE WATER METER & BOX
- GATE VALVE W/ TYPE 'A' VALVE BOX
- FIRE HYDRANT
- SAS MANHOLE
- WATER LINE W/ FITTING

SCALES:
1"=40' HOR.
1"=10' VERT.

SUMMERWOOD COURT & SUMMERWOOD ROAD



SCANNED BY
BY LASON

GENERAL NOTES

- CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
- CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
- CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG'S #2361, #2362, & #2363.
- SEE SHEET #5 FOR WATER SHUT-OFF PLAN.
- SEE SHEET #5 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
24	52	18	90	11	19	2								

SAS SERVICE TABLE

LOT NO.	STA.	INV. @ R/W
BLOCK (A)		
1	1+97.75	3.0
2	1+47.75	3.3
3	0+97.75	3.5
4	15' FROM PL	3.7
5	15' FROM PL	3.7
6	0+95.75	3.5
7	1+45.75	3.3
8	1+95.75	3.0
BLOCK (B)		
1	3+50.75	2.2
2	3+80.75	1.9
3	4+30.75	1.5
4	4+80.75	0.9
5	5+30.75	0.6
6	5+80.75	0.3
7	6+30.75	0.1
8	6+78.67	99.8
9	7+30.75	99.6
10	7+80.75	99.3
11	8+30.75	99.1
12	8+80.75	98.8
13	9+30.75	98.6
BLOCK (C)		
5	9+87.49	98.3
6	9+28.75	98.6
7	8+78.75	98.8
8	8+28.75	99.1
9	7+78.75	99.3
10	7+28.75	99.6
11	6+78.67	99.8
12	6+28.75	0.1
13	5+78.75	0.3
14	5+28.75	0.6
15	4+78.75	0.9
16	4+28.75	1.5
17	3+78.75	1.9
18	3+48.75	2.2

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
Albuquerque New Mexico
8421012.DWG 5/28/95

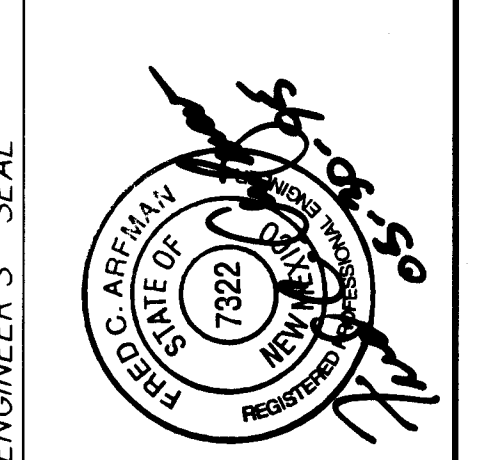
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

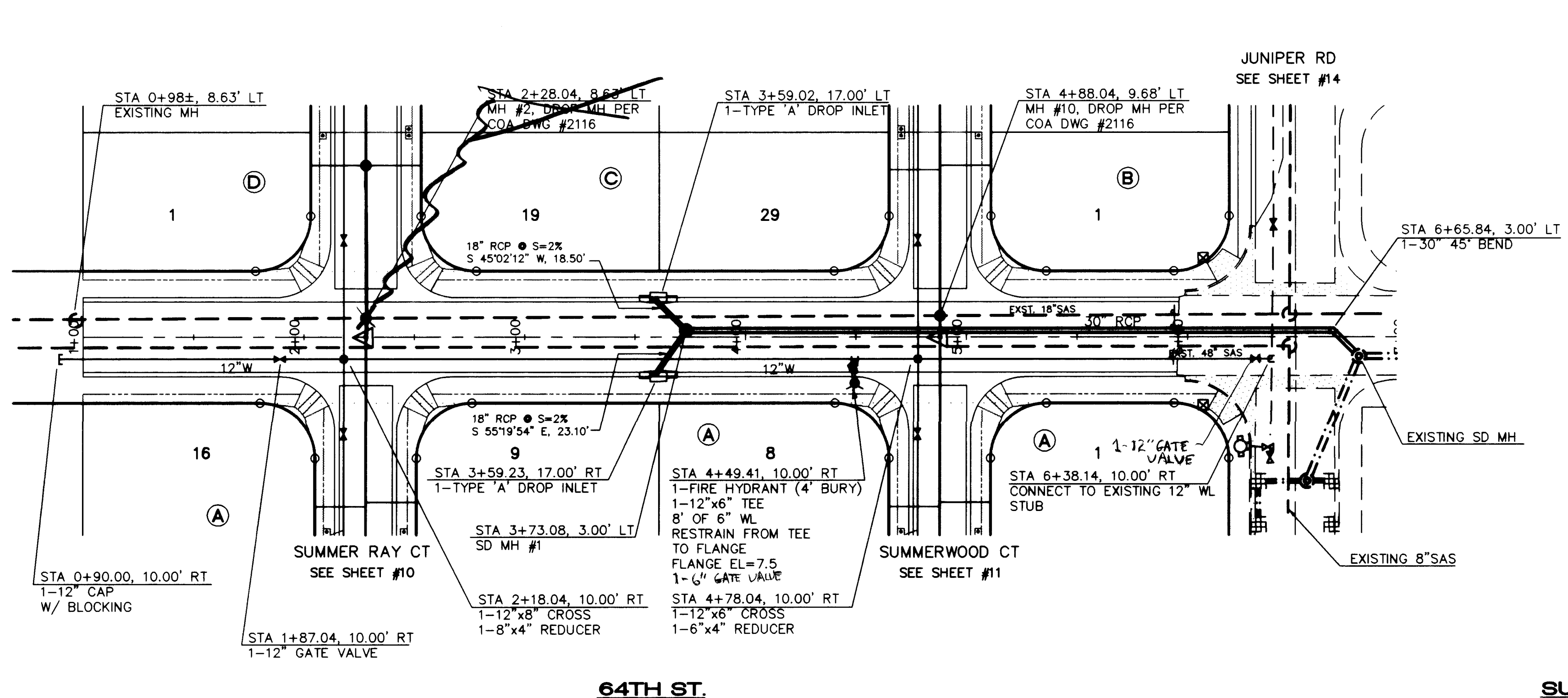
TITLE: SUMMER RAY SUBDIVISION--UNIT 1
SUMMERWOOD CT & SUMMERWOOD RD - UTILITIES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kane	6-1-95	WATER	R.W. Kane	6-5-95
TRANSPORTATION	R.W. Kane	6-27-95	WASTE WATER	R.W. Kane	6-5-95
HYDROLOGY	JPC	7-24-95			

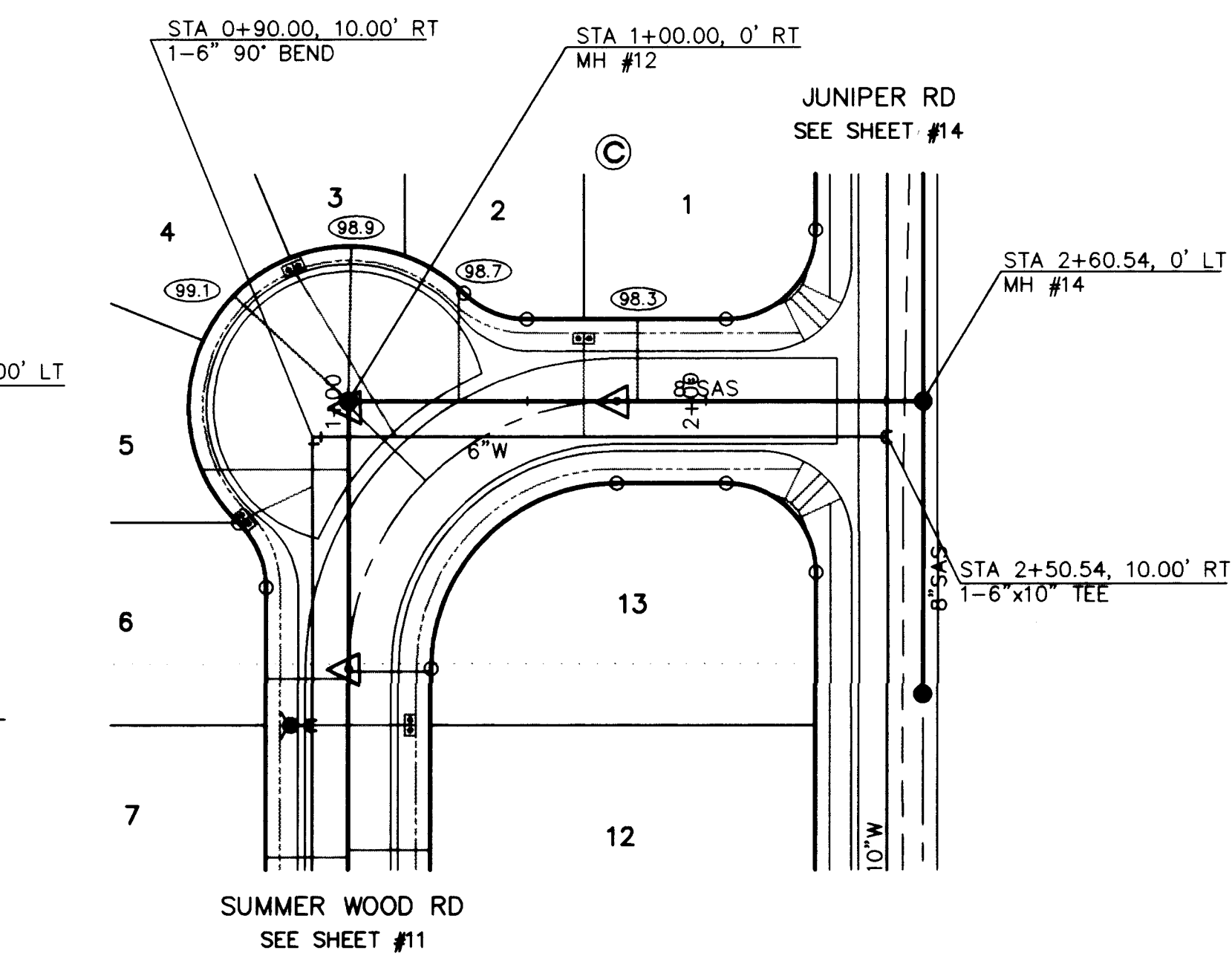
PROJECT NO. 5218.90 MAP NO. H-10 SHEET 11 OF 15

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	STATION	MARK	DATE	BY
ISAACSON & ARFMAN, P.A.	5/28/95	ACS CONTROL STATION "2-H10" LOCATED AT THE NORTHWEST QUADRANT OF 64TH ST. & MIAMI RD. NW.			ALS
DESIGNED BY	DATE	REVISIONS	DESIGN	DATE	BY
ISAACSON & ARFMAN, P.A.	5/28/95			4/95	JRL
CHECKED BY	DATE	DESIGNED BY	ANW	DATE	4/95
ISAACSON & ARFMAN, P.A.	5/28/95	DRAWN BY	FCA	DATE	4/95
RECORDED BY	DATE	CHECKED BY		DATE	
ISAACSON & ARFMAN, P.A.	5/28/95				





64TH STREET & SUMMERWOOD DRIVE

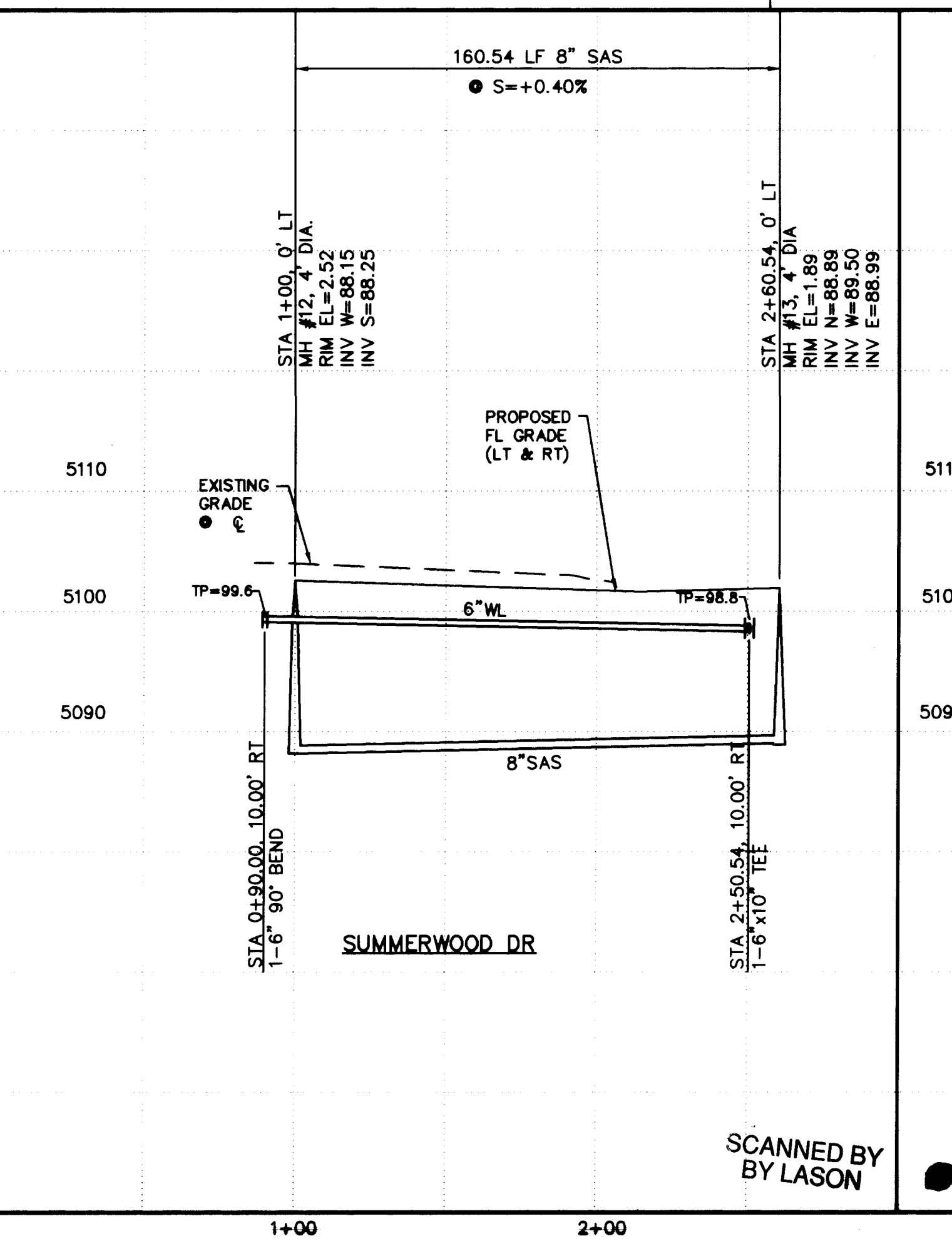
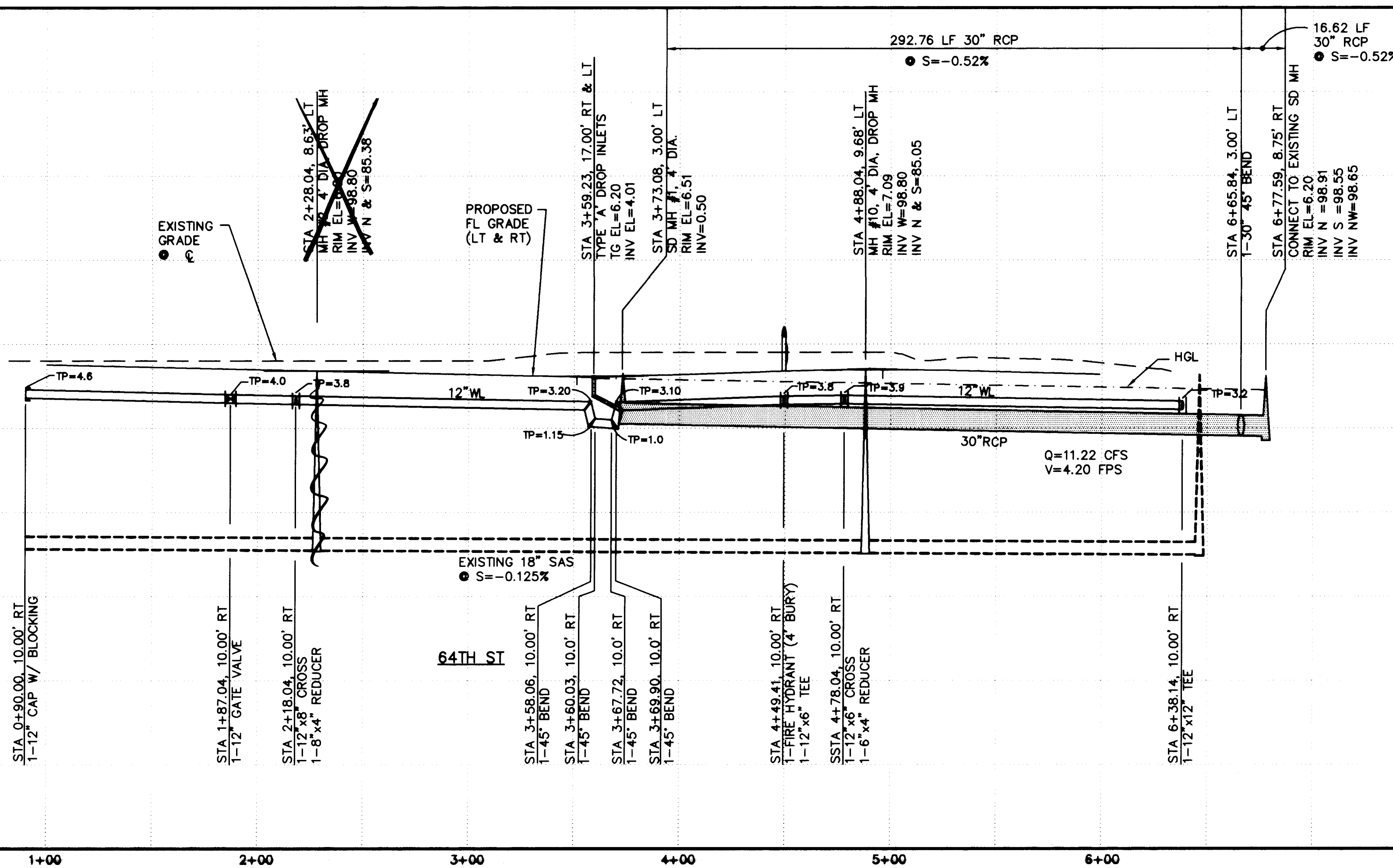


- LEGEND**
- (51.3) SAS SERVICE LINE INVERT @ R
 - SINGLE WATER METER & BOX
 - ▣ DOUBLE WATER METER & BOX
 - GATE VALVE W/ TYPE 'A' VALVE BOX
 - FIRE HYDRANT
 - SAS MANHOLE
 - WATER LINE W/ FITTING
- SCALES:**
1"=40' HOR.
1"=10' VERT.

- GENERAL NOTES**
- CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
 - CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
 - CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG'S #2361, #2362, & #2363.
 - SEE SHEET #5 FOR WATER SHUT-OFF PLAN.
 - SEE SHEET #5 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.

SAS SERVICE TABLE

LOT NO.	STA.	INV. @ R/W
BLOCK ①		
1	1+80.81	98.3
2	1+30.81	98.7
3	15' FROM PL	98.9
4	15' FROM PL	99.1



ENGINEER'S SEAL

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
20-52118.190 11/29/6

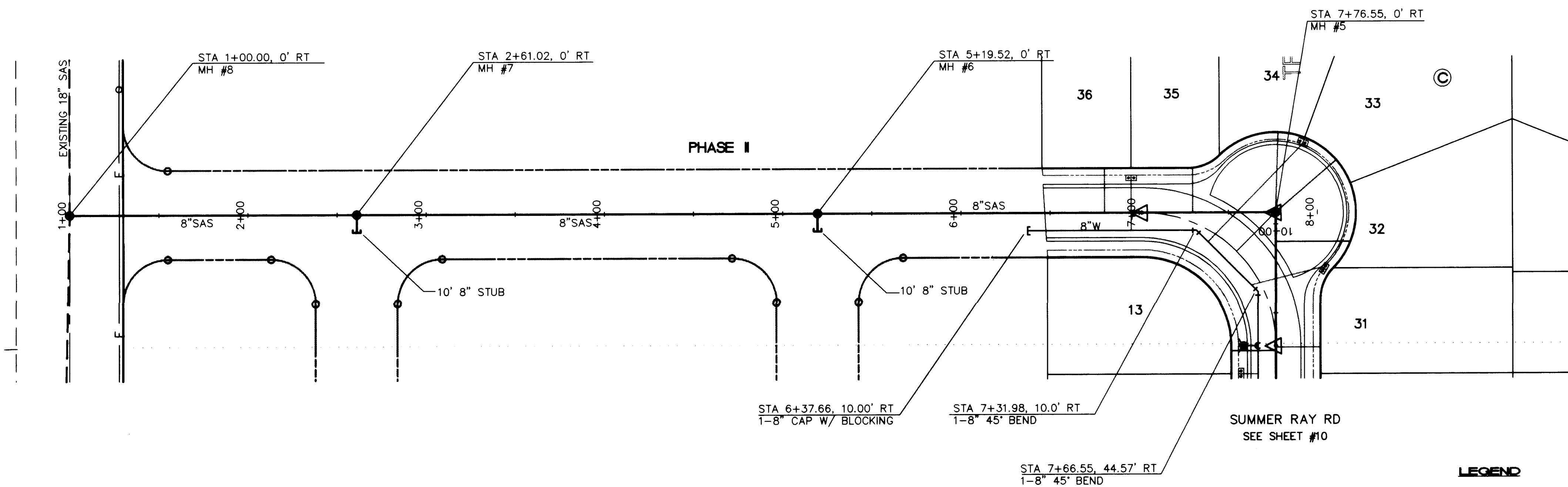
ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
8421UTL3.DWG 5/28/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **SUMMER RAY SUBDIVISION--UNIT 1**
64TH ST & SUMMERWOOD DR - UTILITIES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	8-1-95	WATER	<i>R.W. Kane</i>	6-5-95
TRANSPORTATION	<i>[Signature]</i>	6-07-95	WASTE WATER	<i>R.W. Kane</i>	6-5-95
HYDROLOGY	<i>[Signature]</i>	7-24-95			

PROJECT NO. **5218.90** MAP NO. **H-10** SHEET **12** OF **15**

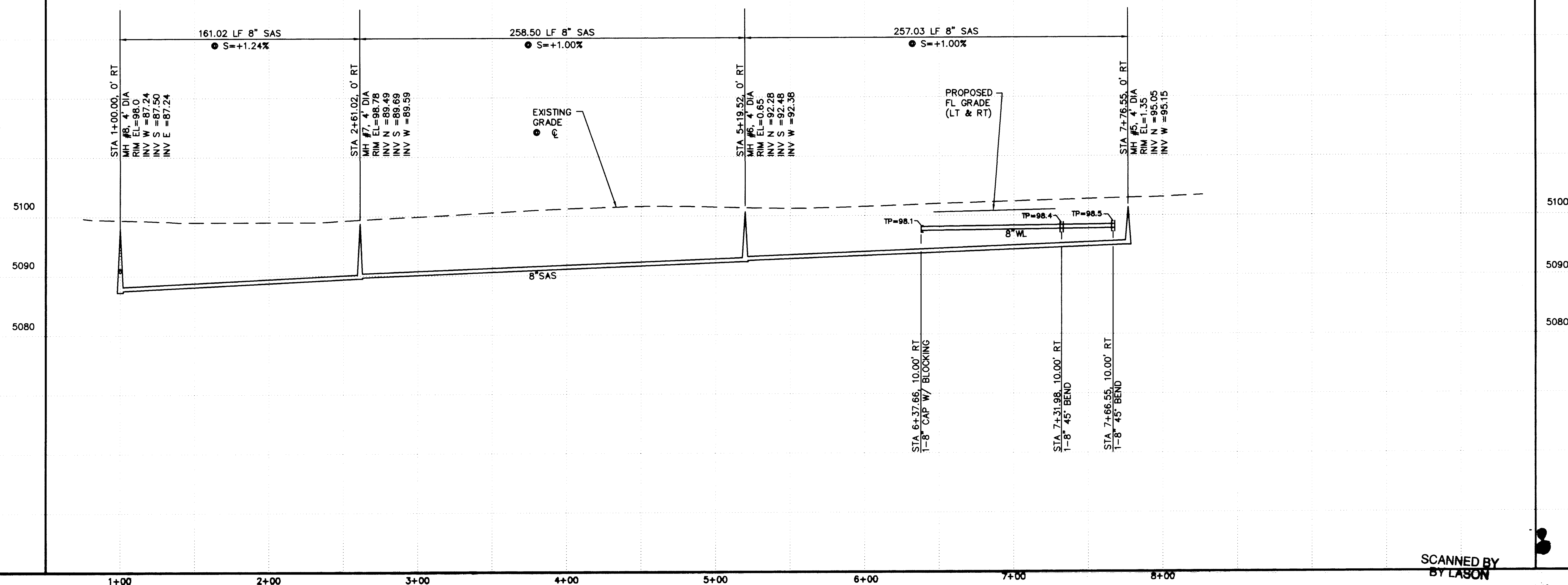


LEGEND

- (S1.3) SAS SERVICE LINE INVERT @ P
- SINGLE WATER METER & BOX
- DOUBLE WATER METER & BOX
- GATE VALVE W/ TYPE 'A' VALVE BOX
- FIRE HYDRANT
- SAS MANHOLE
- WATER LINE W/ FITTING

SCALES:
1"=40' HOR.
1"=10' VERT.

SUMMER RAY DRIVE



GENERAL NOTES

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- CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
- CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG'S #2361, #2362, & #2363.
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- SEE SHEET #5 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.

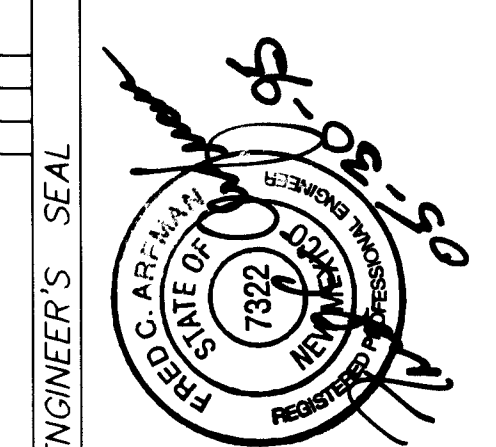
SAS SERVICE TABLE

LOT NO.	STA.	INV.	R/W
BLOCK C			
34	15' FROM PL	97.1	
35	7+30.06	96.7	
36	6+80.67	96.3	

AS-BUILT INFORMATION	
CONTRACTOR	ISAACSON & ARFMAN, P.A.
DATE	5/26/95
BY	W. K. Kame
CHECKED BY	W. K. Kame
RECORDED BY	W. K. Kame

SURVEY INFORMATION	
DATE	5/26/95
BY	W. K. Kame
CHECKED BY	W. K. Kame
RECORDED BY	W. K. Kame

BENCH MARKS	
DATE	5/26/95
BY	W. K. Kame
CHECKED BY	W. K. Kame
RECORDED BY	W. K. Kame



ENGINEER'S SEAL	
DATE	5/26/95
BY	W. K. Kame
CHECKED BY	W. K. Kame
RECORDED BY	W. K. Kame

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
20	5	2	10	19	10	1	1	1	1	1	1	1	1	1

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
84210-1400 5/26/95

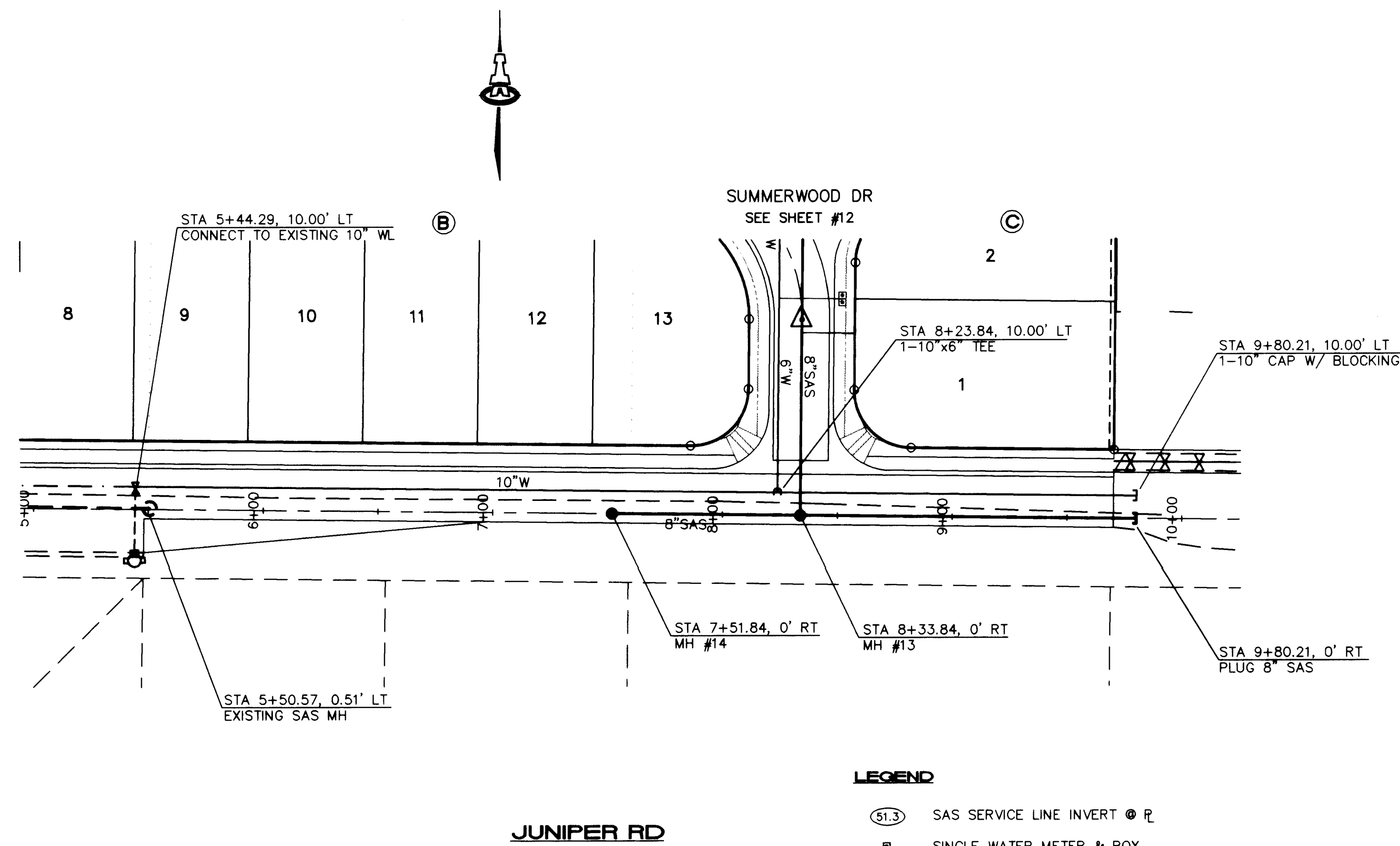
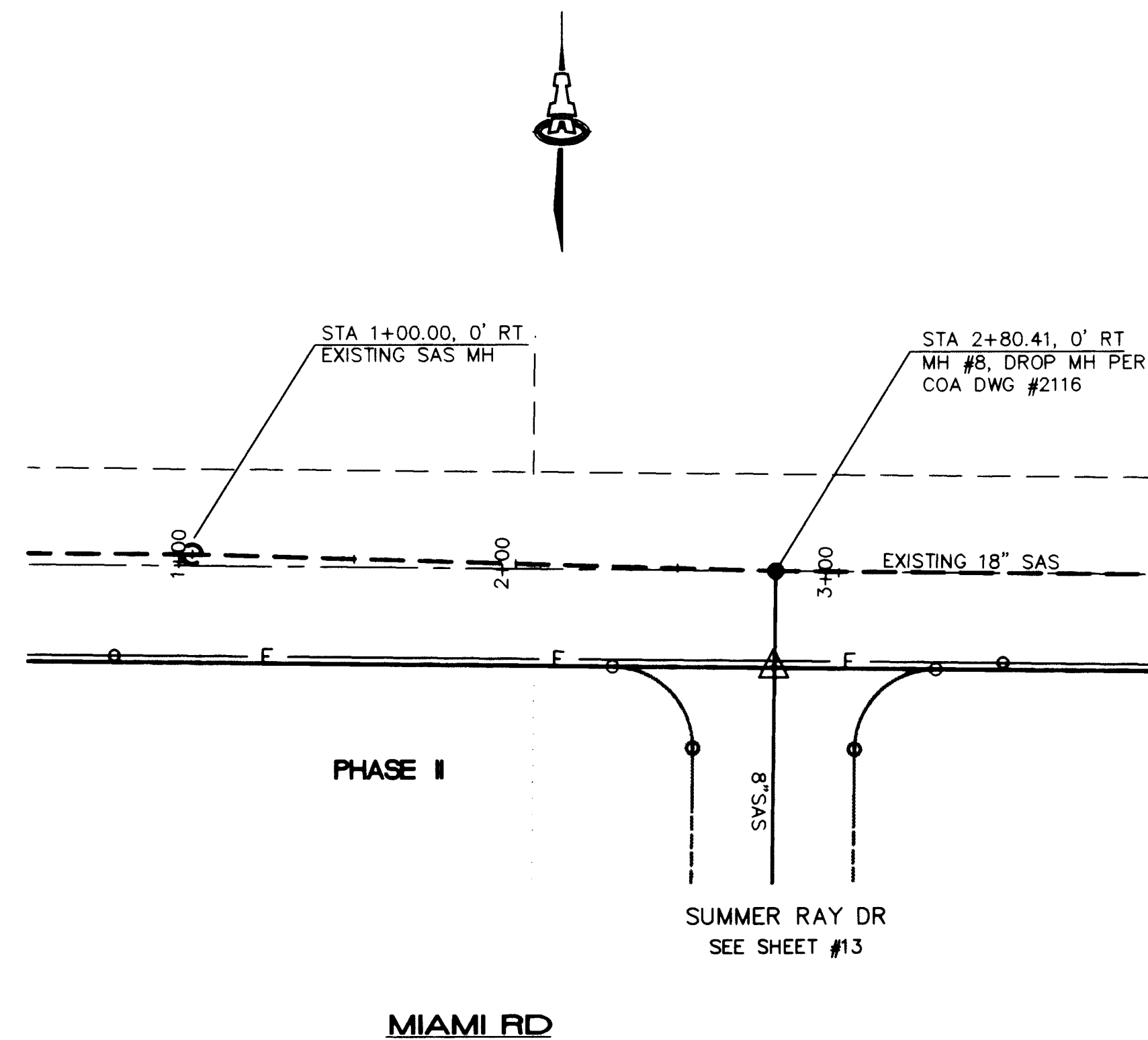
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DR CHAIRMAN	W. K. Kame	6-1-95	WATER	W. K. Kame	6-5-95
TRANSPORTATION	W. K. Kame	6-1-95	WASTE WATER	W. K. Kame	6-5-95
HYDROLOGY	W. K. Kame	7-24-95			

PROJECT NO.	MAP NO.	SHEET	OF
5216.90	H-10	13	15

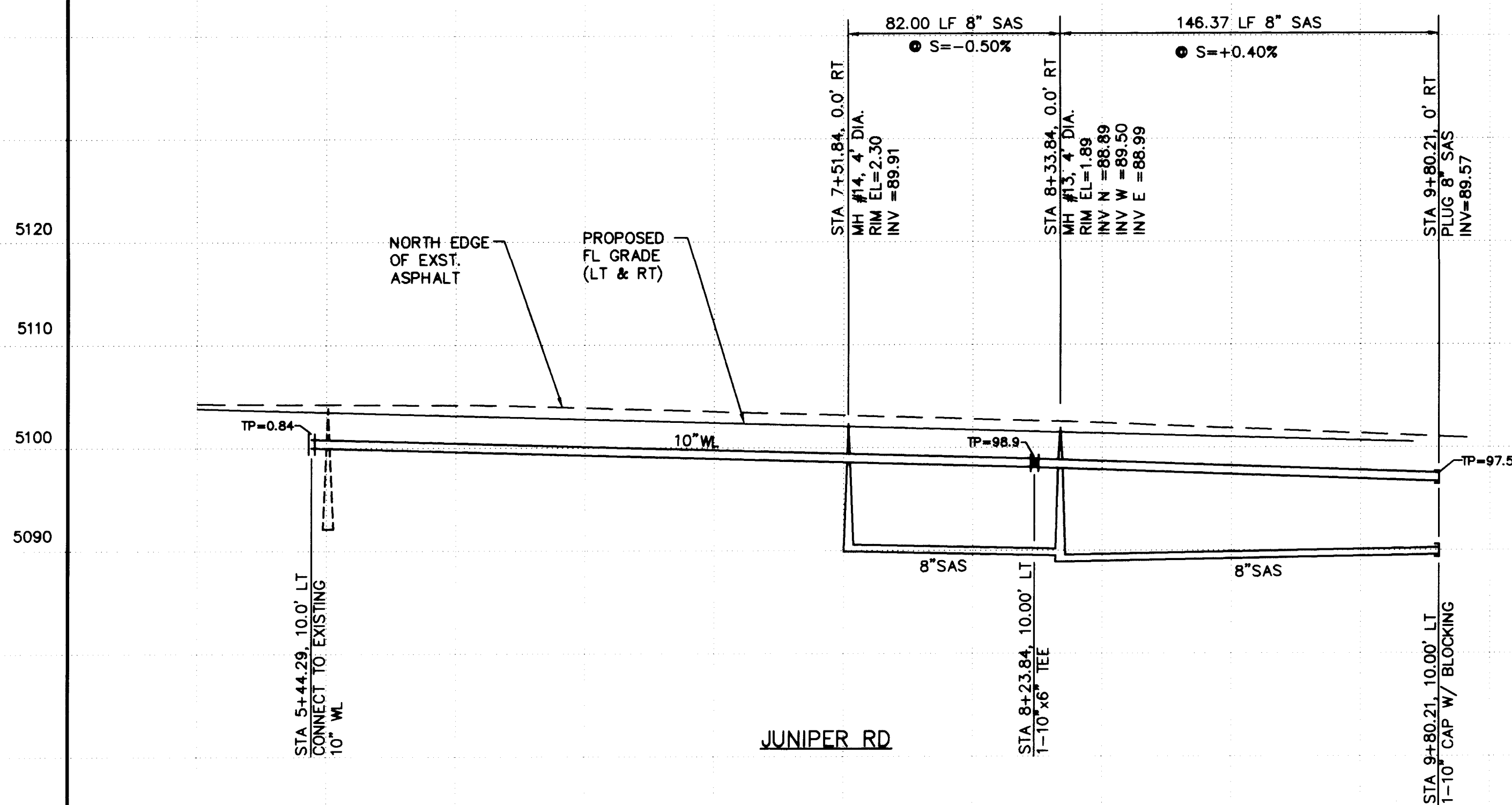
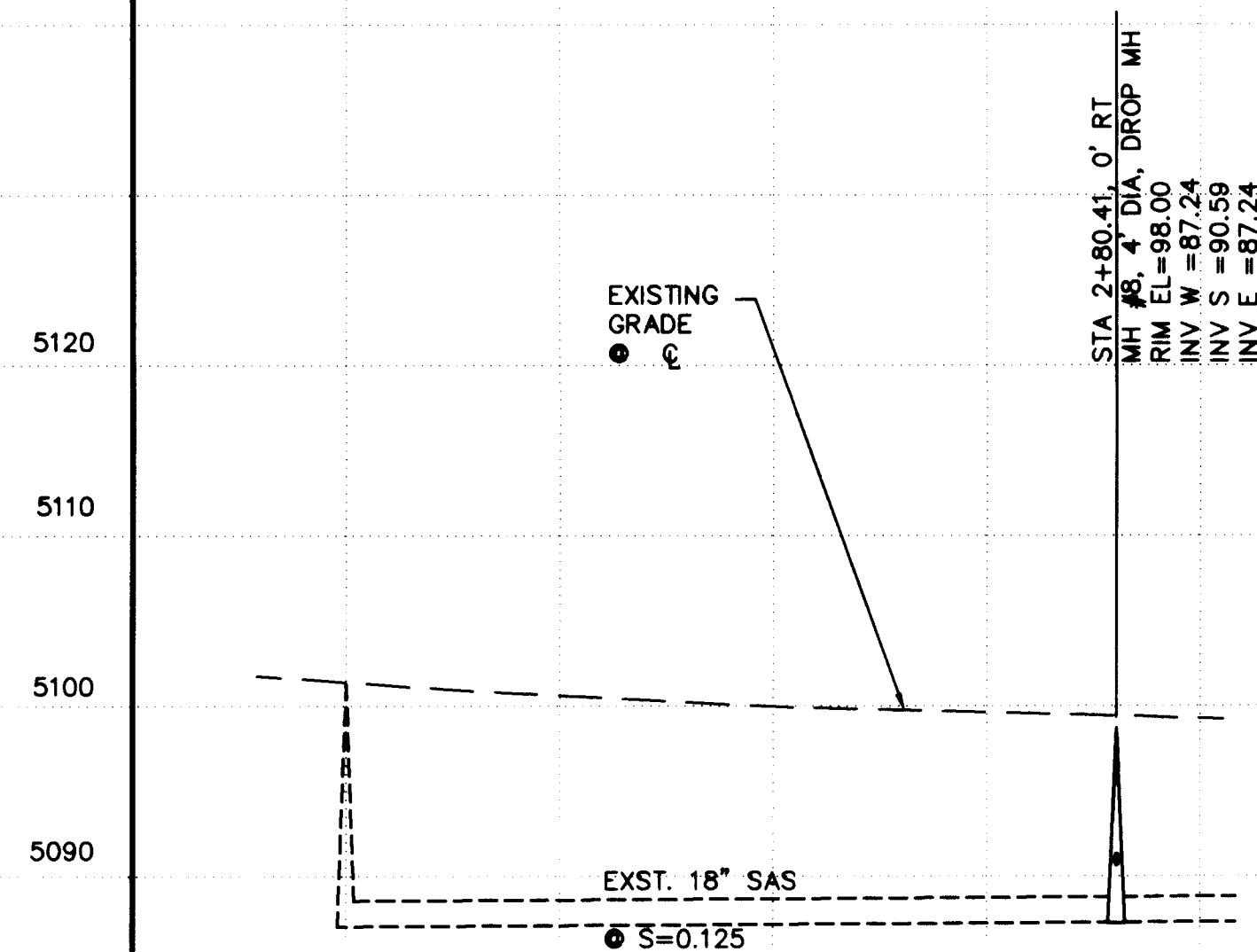
SCANNED BY
BY LASON



MIAMI ROAD & JUNIPER ROAD

- LEGEND**
- (S1.3) SAS SERVICE LINE INVERT @ R
 - SINGLE WATER METER & BOX
 - ▣ DOUBLE WATER METER & BOX
 - GATE VALVE W/ TYPE 'A' VALVE BOX
 - FIRE HYDRANT
 - SAS MANHOLE
 - WATER LINE W/ FITTING

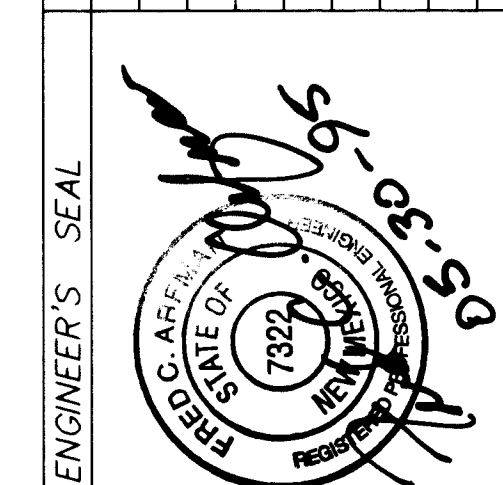
SCALES:
1"=40' HOR.
1"=10' VERT.



- GENERAL NOTES**
- CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
 - CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
 - CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG'S #2361, #2362, & #2363.
 - SEE SHEET #5 FOR WATER SHUT-OFF PLAN.
 - SEE SHEET #5 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.

AS-BUILT INFORMATION			
CONTRACTOR	ISAACSON & ARFMAN, P.A.	DATE	5/26/95
STATIONED BY	ALS, INC.	DATE	5/26/95
INSPECTED BY	ALS, INC.	DATE	5/26/95
FIELD VERIFICATION BY	ALS, INC.	DATE	5/26/95
CORRECTED BY	ALS, INC.	DATE	5/26/95
MICRO-FILM INFORMATION		RECORDED BY	
		NO.	

SURVEY INFORMATION			
NO.	1	DATE	
BY	ALS	DATE	
FIELD NOTES		DATE	
BENCH MARKS		DATE	
ACS CONTROL STATION "2-H10" LOCATED AT THE NORTHWEST QUADRANT OF 64TH ST. & MIAMI RD. NW.		DATE	
ELEVATION: 5108.81		DATE	



REVISIONS			
NO.	DATE	REMARKS	BY
1	5/26/95	DESIGN	
2	5/26/95	DESIGN	
3	5/26/95	DESIGN	
4	5/26/95	DESIGN	
5	5/26/95	DESIGN	
6	5/26/95	DESIGN	
7	5/26/95	DESIGN	
8	5/26/95	DESIGN	
9	5/26/95	DESIGN	
10	5/26/95	DESIGN	
11	5/26/95	DESIGN	
12	5/26/95	DESIGN	
13	5/26/95	DESIGN	
14	5/26/95	DESIGN	
15	5/26/95	DESIGN	

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
123 Monroe Street N.E.
Albuquerque, New Mexico
84210
5/26/95

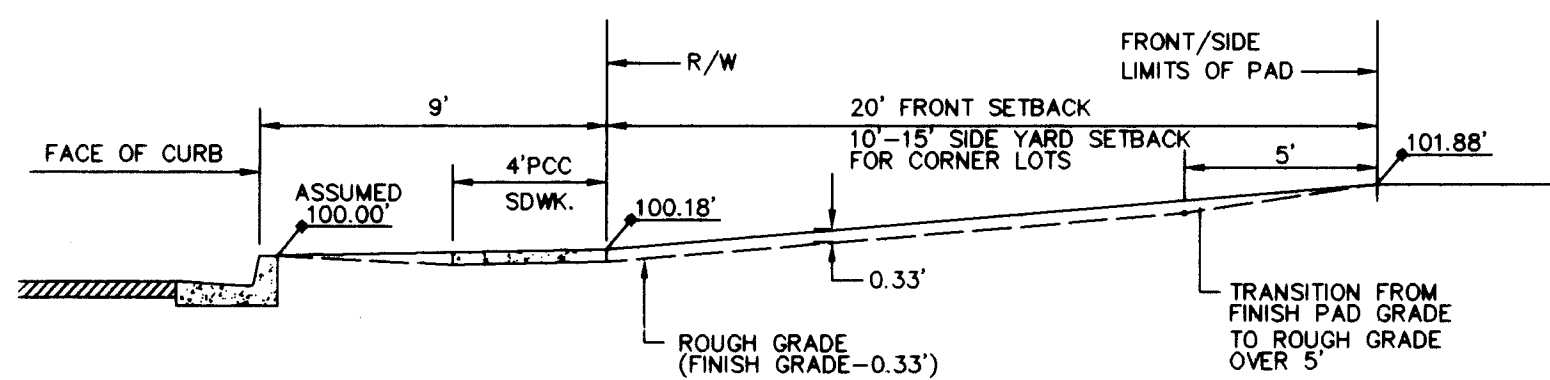
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
MIAMI RD & JUNIPER RD - UTILITIES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R.W. Kane	6-5-95	WATER	R.W. Kane	6-5-95
TRANSPORTATION	R.W. Kane	6-5-95	WASTE WATER	R.W. Kane	6-5-95
HYDROLOGY	JPC	7-24-95			

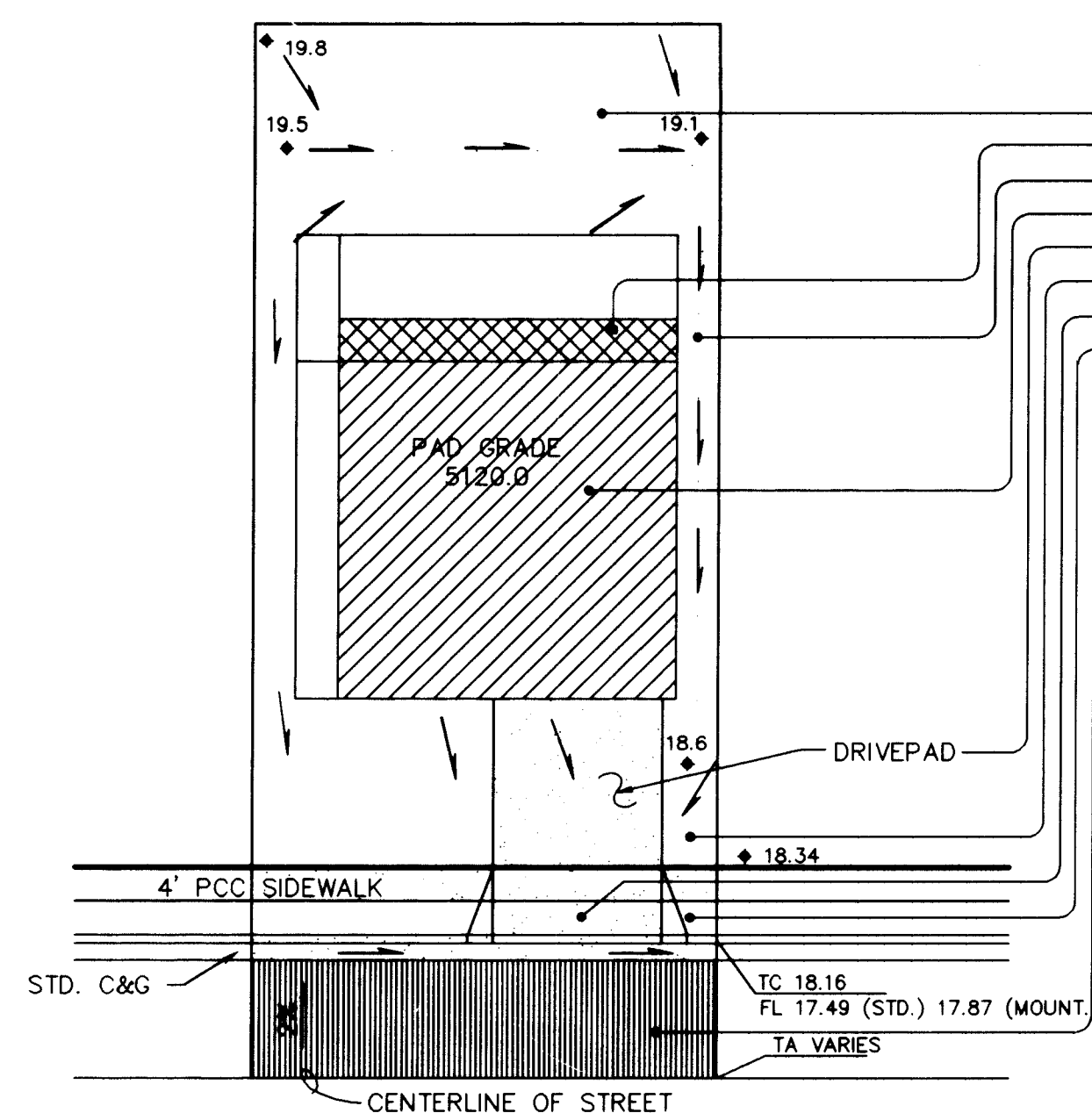
PROJECT NO. 5218.00 MAP NO. H-10 SHEET 14 OF 15

SCANNED BY
BY LASON



FRONT/SIDE YARD GRADING
1"=5'-0"

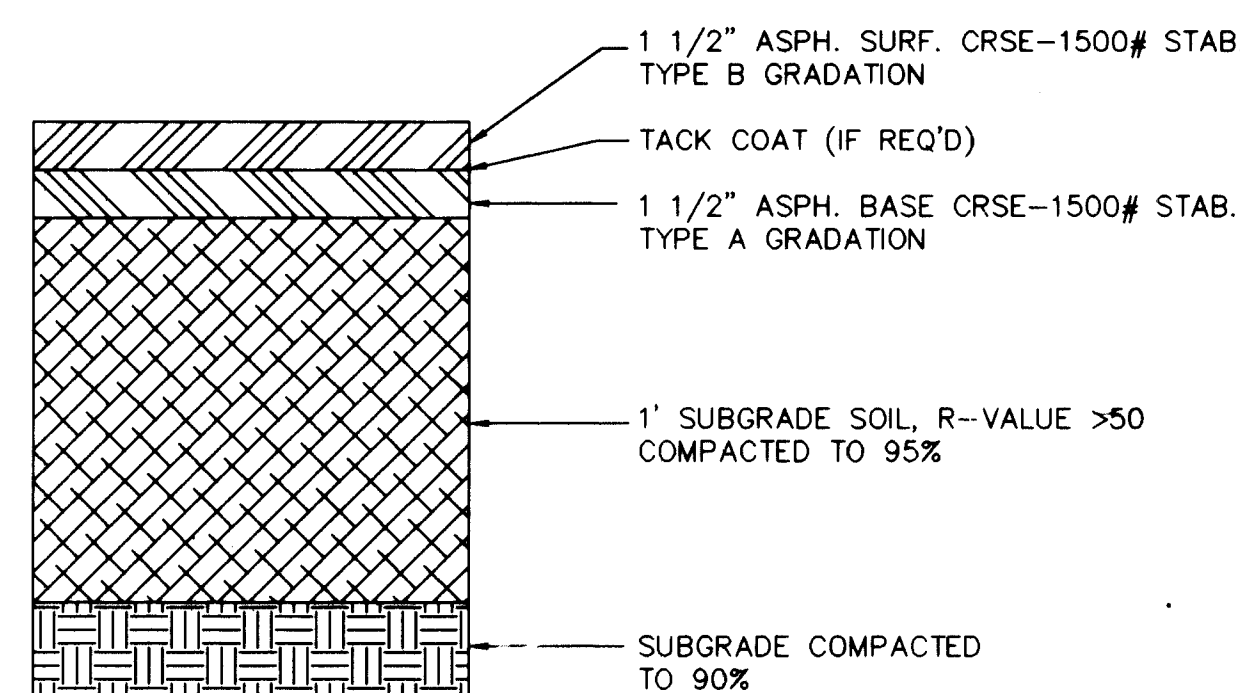
NOTE: FINAL GRADES SHALL BE ACHIEVED FROM THE EXCAVATED MATERIAL OF THE SIDEWALKS, DRIVEPAD, WALL FOOTING AND IMPORTED LANDSCAPED MATERIALS.



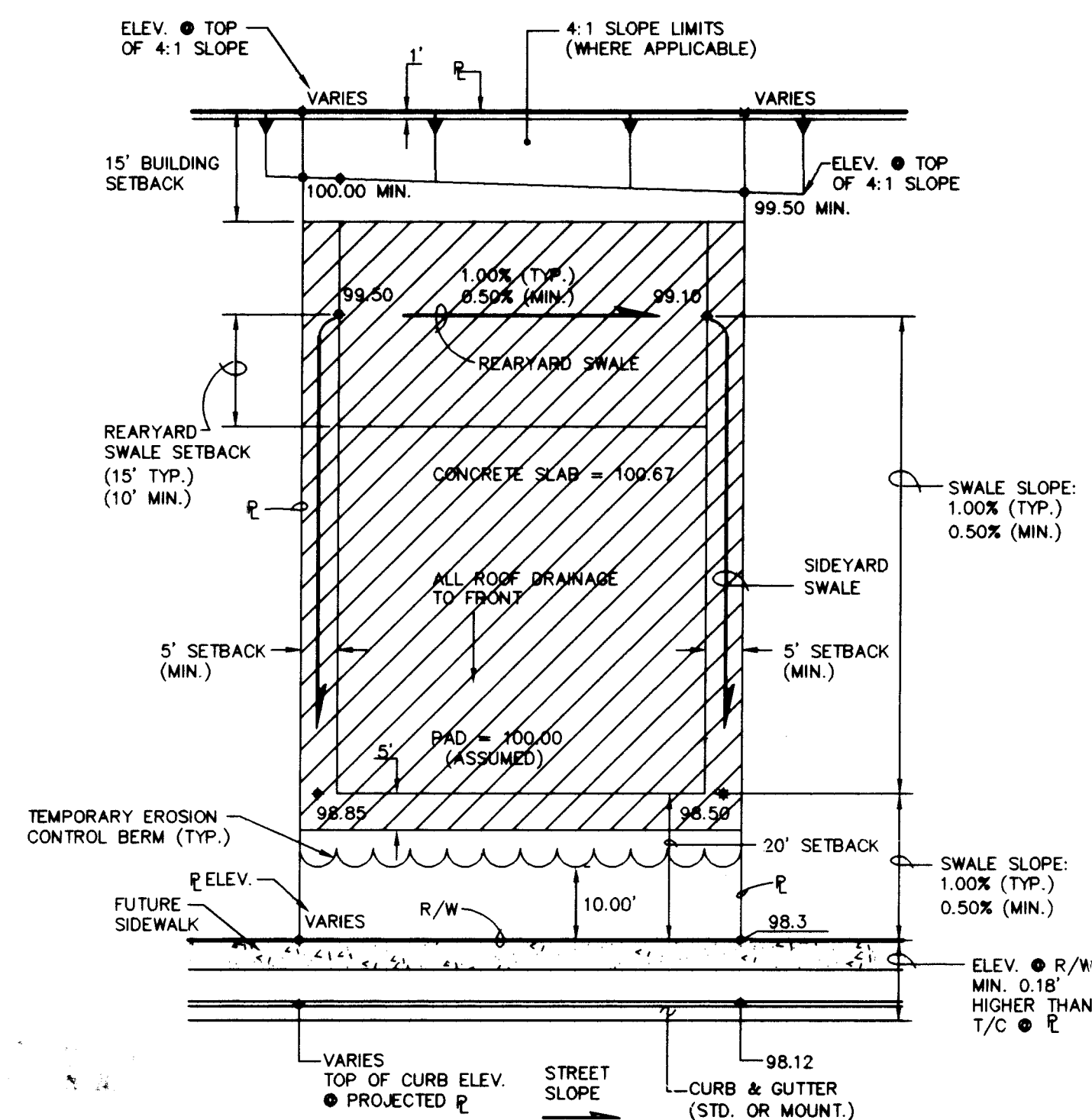
**LAND TREATMENTS
AND TYPICAL LOT
GRADING PLAN**
1"=20'

LAND TREATMENT (AREA S.F.)			
B	C	D	COMMENT
1,870			REAR YARD
		200	WALKS/PATIO
338	337		SIDE YARDS
		1,600	HOUSE/GARAGE
		400	DRVPD & WALK
350	350		FRONT YARD
		358	SDWK & DRPD.
	152		COMP. R/W
		920	PAVING/C&G
2,558	839	3,478	TOTALS (S.F.)
37.2%	12.2%	50.6%	% OF TOTAL AREA

TEST HOLE NO.	CLAY ● SURFACE	DEEP CLAY OR LENSE	NO CLAY FOUND
1			
2	0-5'		X
3		10'-12'	
4	0-4'		
5		4'-8'	
6		11'-13'	
7		4'-10'	
8		5'-8'	
9		2.5'-6'	
10		7'-8'	
11			X
12			X
13		5'-8'	
14		3'-12'	
15			X
16		6'	
17		8'	
18		6'	
19			X
20		6'-11.5'	
21		5'-9'	
22		5'-11.5'	
23		6'-11.5'	



RESIDENTIAL PAVING SECTION
NTS

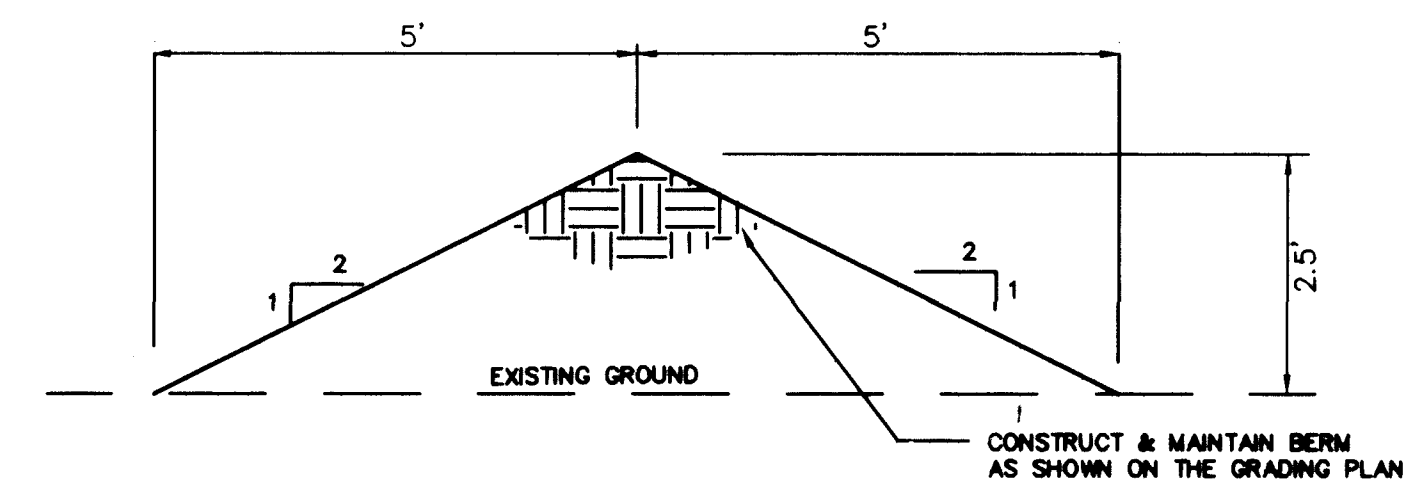


**TYPICAL LOT GRADING SHOWING
COMPACTION ZONE**

$$1'' = 20''$$

GRADING/DRAINAGE NOTES:

1. ISAACSON & ARFMAN, P.A. (THE ENGINEER) HAS PREPARED THIS GRADING PLAN TO ESTABLISH FINAL SURFACE GRADES FOR BOTH THE PROPOSED INDIVIDUAL RESIDENTIAL LOTS AND THE PUBLIC RIGHTS-OF-WAY.
2. THE EARTHWORK CONTRACTOR (CONTRACTOR) IS REQUIRED TO REVIEW THE FOLLOWING: GEOTECHNICAL ENGINEERING EVALUATION FOR THE SUMMER RAY SUBDIVISION, PREPARED BY VINYARD & ASSOCIATES, DATED JANUARY 27, 1995, FOR ARGUS DEVELOPMENT INC. COPIES OF THIS DOCUMENT MAY BE REVIEWED AT THE OFFICE OF ISAACSON & ARFMAN, P.A., 128 MONROE STREET NE, ALBUQUERQUE, NEW MEXICO, (505) 268-8828. THE EARTHWORK CONTRACTOR'S BID SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE IMPLEMENTATION OF ALL RECOMMENDATIONS CONTAINED IN THESE STUDIES.
3. CONTRACTOR SHALL ADDRESS THE RECOMMENDATIONS OF THE ABOVE MENTIONED EVALUATION AND PREPARE IMPLEMENTATION PLAN TO BE PRESENTED TO BOTH ARGUS DEVELOPMENT INC. AND THE DESIGNATED GEOTECHNICAL ENGINEERING FIRM PRIOR TO COMMENCEMENT OF THE EARTHWORK OPERATION. THIS PLAN MUST SPECIFICALLY IDENTIFY THE METHOD OF DISPOSING OF THE CLAY LAYERS WHERE THEY EXIST.

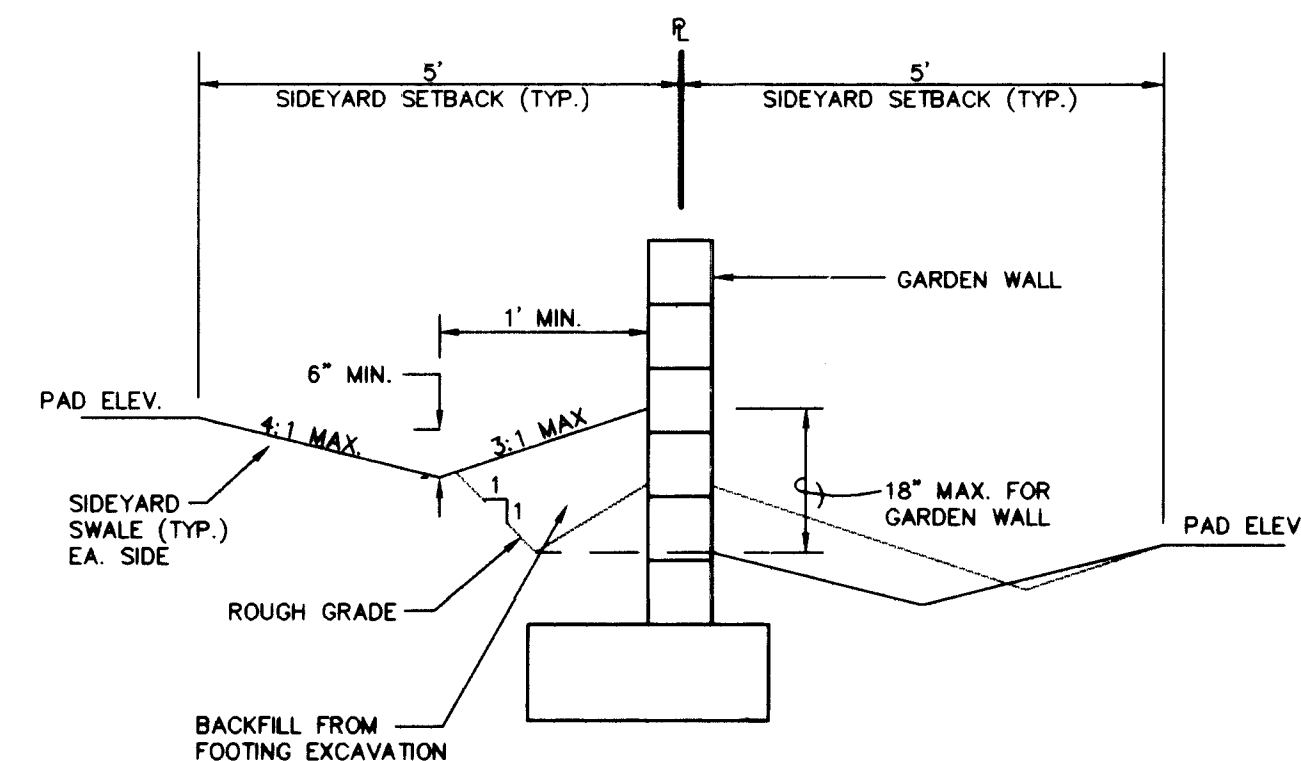


EROSION CONTROL BERM

SCALE: 1"=2'

EROSION CONTROL

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO THE PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING EROSION CONTROL BERMS (AS DETAILED ABOVE) AS SHOWN ON THE PLAN AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
2. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION. AN EXCAVATION PERMIT IS REQUIRED FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
3. SEE GRADING NOTES.



C.M.U. GARDEN/RETAINING WALL • BOUNDARY

$$1'' = 2'$$

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

SCANNED BY
BY LASON

 **ISAACSON & ARFMAN, P.A.**
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
8421DTL.DWGanw 5/29/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUMMER RAY SUBDIVISION--UNIT 1
GRADING NOTES & DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>AP RWE</i>	8-1-95	WATER	<i>NIA RWE</i>	6-5-95
TRANSPORTATION	<i>MP RWE</i>	6-07-95	WASTE WATER	<i>NIA RWE</i>	6-5-95
HYDROLOGY	<i>BMC</i>	7-24-95			

PROJECT NO. 5218.90	MAP NO. H-10	SHEET 15 OF 15
----------------------------	---------------------	------------------------------

AS-BUILT INFORMATION	
CONTRACTOR	SUNDADE MECH., INC.
WORK	11/95
STAYED BY	ALS, INC.
DATE	11/95
ACCEPTANCE BY	
FIELD	
INFORMATION BY	ALS, INC.
DATE	11/95
RECORDED BY	ALS, INC.
DATE	11/95
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	

BENCH MARKS	CONTROL STATION "2-H10" LOCATED AT THE WEST QUADRANT OF 64TH ST. & MIAMI RD. NW.
	ELEVATION: 5108.81

[illegible]

NO.		DATE	REMARKS	BY
REVISIONS				
DESIGN				
DESIGNED BY	JRL	DATE	4/95	
DRAWN BY	ANW	DATE	4/95	
CHECKED BY	FCA	DATE	4/95	