HYDROLOGY

1 OF

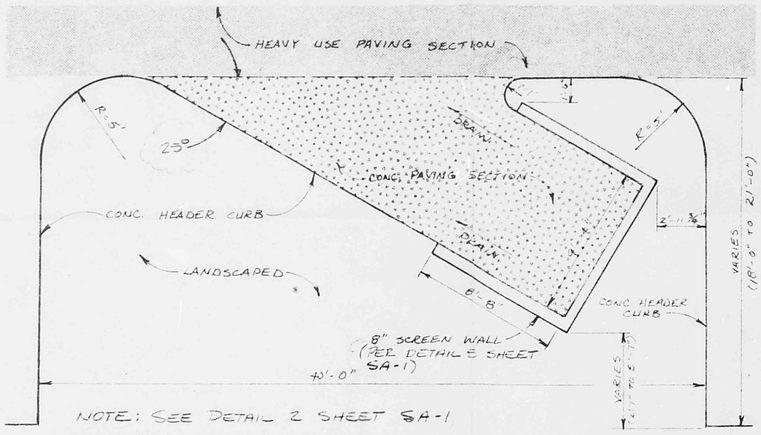
F17/D15

FIVE PLANS

5 PLANS FOR

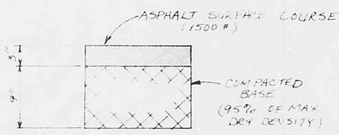
SUNCHASE APTS.

FM-D15



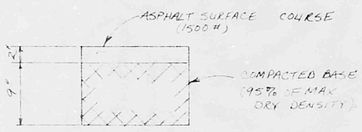
TYPICAL TRASH RACK ISLAND GEOMETRY

SCALE 1" = 5'



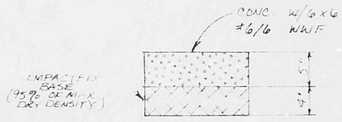
HEAVY USE PAVING SECTION

SCALE 1" = 1'-0"



LIGHT USE PAVING SECTION

SCALE 1" = 1'-0"



CONCRETE PAVING SECTION

(FOR USE IN COVERED PARKING AREAS)

SCALE 1" = 1'-0"

GENEREL NOTES:

1. SEE SHEET SG-2 FOR
2. TOP OF CURB ELEVATIONS PROJECTED THE ACTUAL THE RAMP SHALL EQUAL
3. SEE SHTS. S-1, S-2 FOR S
4. SEE SPECIFICATIONS FOR COMPACTION REQUIREMEN
5. ALL CONCRETE SIDEWALK SLOPE OF 2% AWAY FR MAXIMUM SLOPE OF 8% EXCEED 2%. SEE ARCH CONCRETE SURFACES
6. SEE SHEET S-2 FOR S
7. WHERE LANDSCAPE ARE TO PASS UNDER SIDEWA AT LOW POINT OF SWAL DETAIL
8. ALL LANDSCAPED AREAS OF TWO INCHES BELOW SU IN ORDER TO CONTAIN

KEYED NOTES:

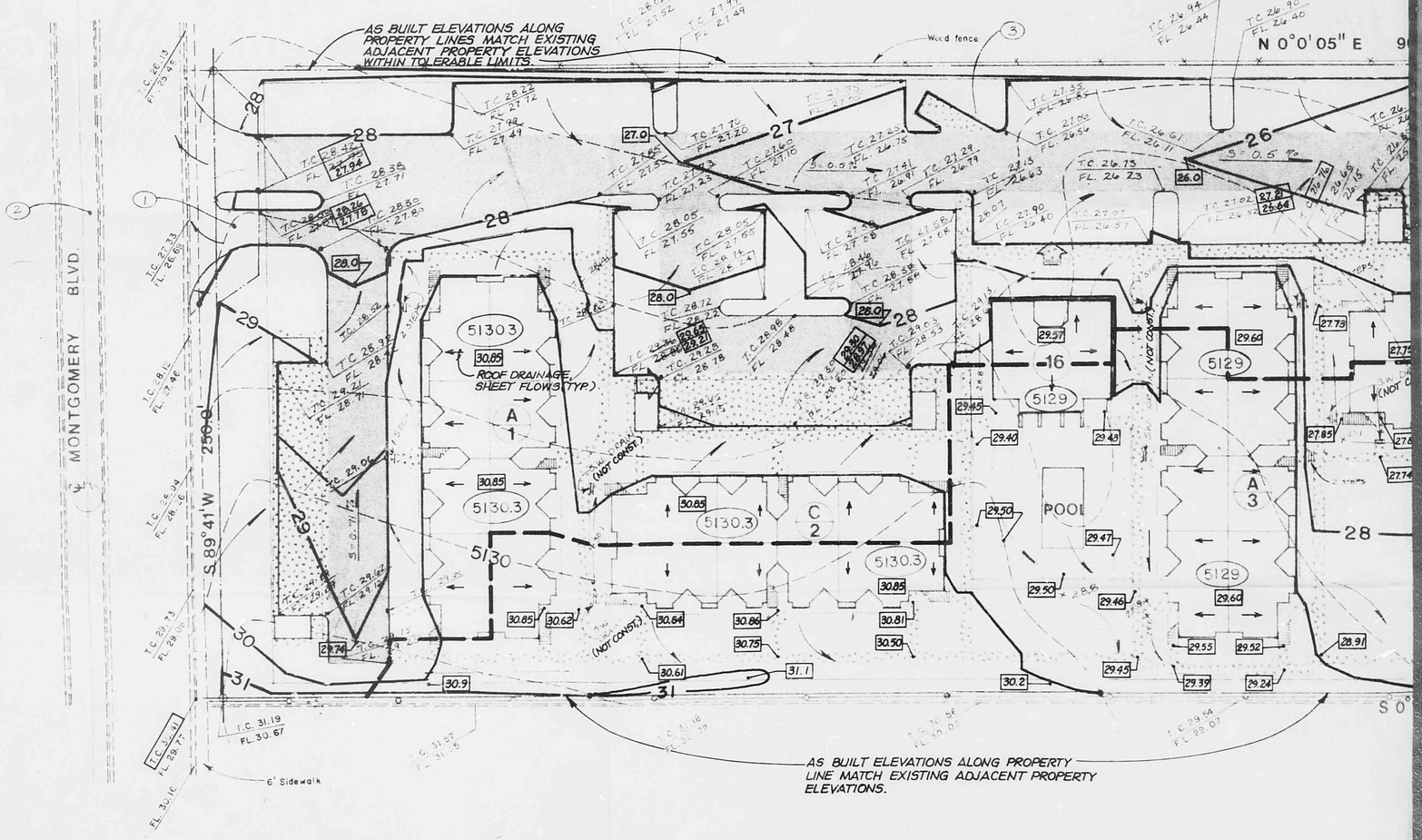
1. ENTRANCE DRIVE (PUBL PART OF THIS CONTRAC
2. MEDIAN CUT AND LEF PUBLIC IMPROVEMENTS CONTRACT.
3. TRASH RACK ISLAND,

BENCH MARK: ACS BRAS THE S.E. BLVD. AND ELEV. = S

TEMPORARY BENCHMARK: TOP OF S SE. CORNER TOP OF S OF THE SIT

LEGEND

5129	BUILDING ELEVATION
	WHEELCH
23	EXISTING
23	PROPOSED
	3" ASPHAL
	2" ASPHA
	CONCRETE
x 28.5	FINISH SP
	FLOW DIR
T.C. 22.36 FL. 21.86	FINISH TO SPOT ELE



ENGINEER's DRAINAGE CERTIFICATION
Phase One

I the undersign being a professional engineer registered in the State of New Mexico do hereby certify that this as-built drawing for Sunchase Apartments, Phase One was prepared by me or under my supervision and that the as-built elevations shown are based on actual field surveys performed by Espey, Huston and Associates, Inc (EH&A). I further certify that Phase One is within substantial compliance witht the approved drainage report and plan and that the temporary drainage and erosion control facilities as described in the EH&A letter dated June 1, 1984 located within Phase I (A) of this project are in place.

Jim Leyman
Espey, Huston and Associates, Inc.

8/14/84
Date

JAMES L. LEYMON, JR. NEW MEXICO 8185 REGISTERED PROFESSIONAL ENGINEER

OTES:

-2 FOR SIDEWALK DRAIN DETAIL.

EVATIONS AT WHEELCHAIR RAMPS ARE ACTUAL ELEVATION AT THE END OF EQUAL THE FLOW LINE ELEVATION.

-2 FOR SITE LAYOUT DIMENSIONS.

IONS FOR PAVING, EARTHWORK AND QUIREMENTS.

SIDEWALKS SHALL HAVE A MINIMUM AWAY FROM FINISH FLOOR AND A OF 8%. CROSS SLOPES SHALL NOT EE ARCHITECTURAL DRAWING FOR FACES WITHIN 5 FEET OF BUILDING.

2 FOR SIDEWALK STEP DETAIL.

APE AREA DRAINAGE IS REQUIRED SIDEWALK PROVIDE A 4" PVC PIPE OF SWALE, SEE SHEET SG-2 FOR

AREAS SHALL BE DEPRESSED A MINIMUM ELOW SURROUNDING CURBS AND SIDEWALKS ONTAIN LANDSCAPE WATER.

ES:

E (PUBLIC IMPROVEMENTS) NOT A CONTRACT.

AND LEFT TURN LANE (NOT SHOWN) EMENTS. NOT A PART OF THIS

LAND, SEE DETAIL THIS SHEET.

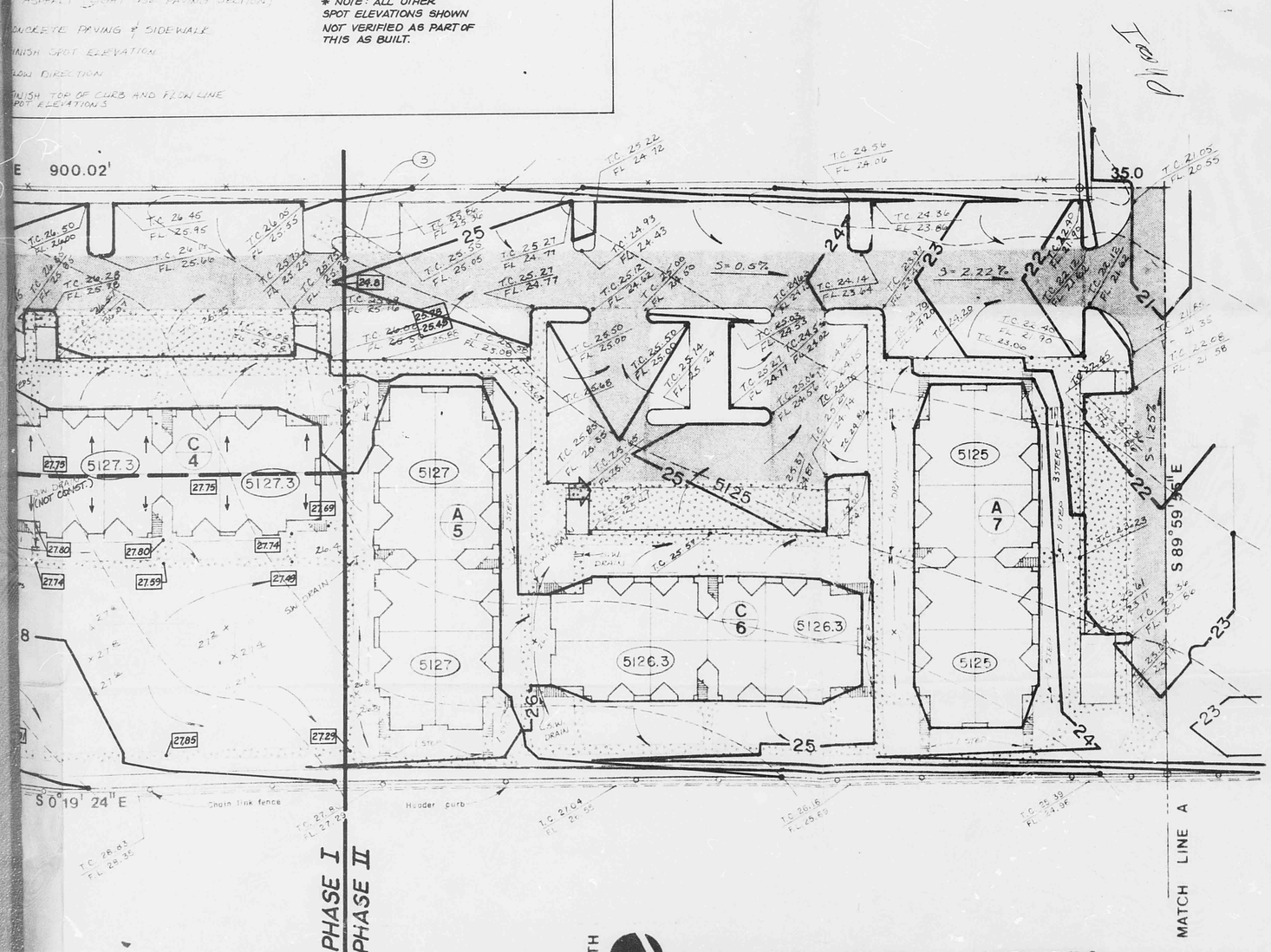
S BRASS CAP 5-617 A, LOCATED ON E S.E. CURB RETURN OF MONTGOMERY VD. AND MORNINGSIDE AVE. N.E. EV. = 5134.527

P OF SLASH AT BACK OF CURB AT THE CORNER OF THE SITE; ELEV = 5130.41. P OF 5/8" REBAR AT THE N.W. CORNER THE SITE, ELEV = 5112.14

GEND

UILDING PAD ELEVATION. FINISH FLOOR LEVATION TO BE 0.5 FEET HIGHER	27.21 / 26.64	AS BUILT ELEVATION *
HEELCHAIR RAMP (MAX. SLOPE = 12:1)	27.85	AS BUILT ELEVATION OF FINISHED FLOOR
XISTING CONTOURS		
ROPOSED CONTOURS/AS BUILT CONTOURS	— —	DRAINAGE AREA BOUNDARY
" ASPHALT (HEAVY USE PAVING SECTION)		
" ASPHALT (LIGHT USE PAVING SECTION)		
ONCRETE PAVING & SIDEWALK		
INISH SPOT ELEVATION		
LOW DIRECTION		
INISH TOP OF CURB AND FLOW LINE POT ELEVATIONS		

* NOTE: ALL OTHER SPOT ELEVATIONS SHOWN NOT VERIFIED AS PART OF THIS AS BUILT.



NORTH

SITE GRADING SOUTH 1"=30'

prints issued
FOR CITY REVISH 7-5-83

revisions
1. TRASH BACK GEO. TO 25°

date drawn
JULY 1983

JEFF KREHBIEL ASSOCIATES, aia
architecture · planning

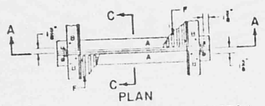
1300 east lewis wichita, kansas 67211
(316) 267-5239

JAMES L. LEYMON, JR. NEW MEXICO 8185 REGISTERED PROFESSIONAL ENGINEER
7/13/83
MSM/SP Group

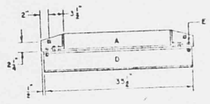
SUNCHASE APARTMENTS
Carlisle & Montgomery Blvd.
Albuquerque, New Mexico

sheet title
SITE GRADING SOUTH

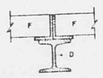
sheet
SG-1
of sheets



ASSEMBLY FOR DOUBLE GRATE CATCH BASIN



SECTION A A



SECTION C-C

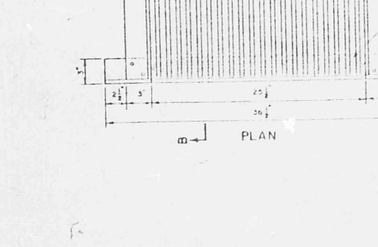
GENERAL NOTES:

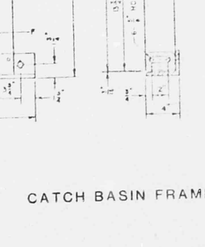
1. ALL BOLTS USED IN CENTER SUPPORT ASSEMBLY SHALL BE $\frac{3}{4}$".
2. FRAME MAY BE RIVETED OR WELDED.
3. BOLTS (NOT RIVETS OR WELDS) SHALL BE USED TO JOIN TWO OR MORE FRAMES TOGETHER AND TO THE W BEAM.
4. AFTER CLEANING SURFACE OF SCALE, RUST, ETC., GRATING FRAME AND CENTER SUPPORT SHALL BE PAINTED WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHO M69).
5. FOR SINGLE TYPE CATCH BASIN, MOVE ONE END WALL TO FORM NEW SINGLE GRATE CATCH BASIN.

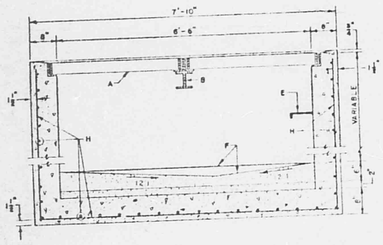
CONSTRUCTION NOTES:

A. 4" X 3" X $\frac{1}{4}$" X 36 $\frac{1}{2}$" ∠
B. 3 $\frac{1}{2}$" X 1" - $\frac{1}{4}$" X 40 $\frac{1}{2}$" ∠
C. 5 X 5 WF 18.5 FLANGE BEAM, FOR CATCH BASIN TYPE DOUBLE "C"
D. 5 X 5 WF 18.5 FLANGE BEAM, FOR CATCH BASIN TYPE DOUBLE "D"
E. $\frac{3}{4}$" BOLTS, WITH NUTS TO SECURE ANGLE TO BEAM.
F. GRATING MEMBER.

CENTER SUPPORT ASSEMBLY







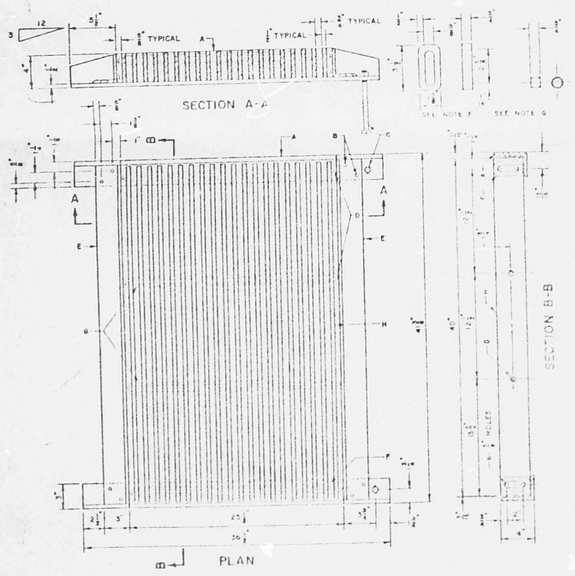
GENERAL NOTES:

1. FOR SINGLE GRATE TYPE CATCH BASIN, MOVE ONE END WALL TO FORM NEW SINGLE GRATE CATCH BASIN.
2. FRAME OF GRATING SHALL BE WELDED AND/OR RIVETED.
3. AFTER CLEANING SURFACE OF SCALE, RUST ETC., GRATING FRAME AND CENTER SUPPORT TO BE PAINTED WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHO M69).

CONSTRUCTION NOTES:

A. FRAME AND GRATING.
B. CENTER SUPPORT ASSEMBLY.
C. CUT ONE HORIZONTAL AND ONE VERTICAL BAR MAX. AT PIPE OPENING.
D. SPACERS.
E. USE STD. CHANNEL STEPS; FIRST STEP TO BE 18" FROM TOP OF GRATE AND SHALL PROTRUDE 3". SPACING BETWEEN STEPS TO BE AT 12" O.C., LAST STEP 18" MAX. FROM BOTTOM.
F. CONC. FILL.
G. INVERT PER DESIGN.
H. NO. 4 BARS AT 6" O.C. EACH WAY.

CATCH BASIN



GENERAL NOTES:

1. ALL EXPOSED METAL PARTS SHALL BE PAINTED PRIOR TO ASSEMBLY. WELDING, MACHINING AND DRILLING SHALL BE DONE BEFORE PAINTING. ALL DIMENSIONS ARE FINISH DIMENSIONS.
2. NUTS USED TO SECURE GRATING BARS MAY BE HELD TIGHT BY PEENING THREADS OR OTHER SUITABLE MEANS INSTEAD OF TACK WELDS.
3. ALL PARTS SHALL BE OF STRUCTURAL GRADE STEEL EXCEPT GRATING BARS, WHICH MAY BE OF EITHER U.S. OR STD.
4. ANY DAMAGE TO PAINTING SHALL BE REPAIRED IN AN APPROVED MANNER.
5. FRAME MAY BE WELDED OR RIVETED.

CONSTRUCTION NOTES:

A. 4"x3"x $\frac{1}{4}$" X 38 $\frac{1}{2}$" ∠
B. 2 - $\frac{3}{4}$" COUNTERSUNK RIVETS AT EACH CORNER, SEE NOTE 5
C. $\frac{3}{4}$" X 8" BOLTS WITH SQ. HEADS AND NUTS AT QUARTER POINTS OF BASIN
D. 5 - $\frac{1}{2}$" X 25 $\frac{1}{2}$" STEEL RODS, 1 NUT AT EACH END, TACK WELD NUTS TO ADJACENT BARS AFTER ASSEMBLY, SEE NOTE 2
E. $\frac{3}{8}$" X 3" X 4" ∠
F. END SPACERS
G. STANDARD $\frac{1}{2}$" PIPE INTERIOR SPACERS
H. 20 - $\frac{1}{2}$" X 3" X 40" BARS

CATCH BASIN FRAME & GRATING

GENERAL NOTES:

1. THE TOP OF CURB ELEVATIONS AT WHEELCHAIR RAMPS ARE TO BE THE ACTUAL ELEVATION AT THE END OF THE RAMP SHALL EQUAL THE FLOW LINE ELEVATION.

ENGINEER's DRAINAGE CERTIFICATION
Phase Three

I the undersign being a professional engineer registered in the State of New Mexico do hereby certify that this as-built drawing for Sunchase Apartments, Phase Threewas prepared by me or under my supervision and that the as-built elevations shown are based on actual field surveys performed by Espey, Huston and Associates, Inc (EH&A). I further certify that Phase Three is within substantial compliance with the approved drainage report and plan and that the temporary drainage and erosion control facilities as described in the EH&A letter dated June 1, 1984 located within Phase Four (4) of this project are in place.

12/2/84
Jim Leyman Date
Espey, Huston and Associates, Inc.

ENGINEER's DRAINAGE CERTIFICATION
Phase Four

I the undersign being a professional engineer registered in the State of New Mexico do hereby certify that this as-built drawing for Sunchase Apartments, Phase Four was prepared by me or under my supervision and that the as-built elevations shown are based on actual field surveys performed by Espey, Huston and Associates, Inc (EH&A). I further certify that Phase Four is within substantial compliance witht the approved drainage report and plan.

2-28-85
Jim Leyman Date
Espey, Huston and Associates, Inc.

GENERAL NOTES:

1. ALUMINUM STEP, ALCOA NO. 12653A OR APPROVED EQUAL. STEPS TO BE PLACED AS NOTED ON DETAILS.

CHANNEL STEP DETAIL

SIDEWALK DRAIN DE

LEGEND

22 EXISTING CONTOUR
22 PROPOSED CONTOUR / AS BUILT CONTOUR
3" ASPHALT
2" ASPHALT
CONCRETE PAVING OR SIDEWALK
WHEEL CHAIR RAMP (MAX SLOPE 1:12)
BUILDING PAD ELEVATION
FINISH FLOOR ELEVATION TO BE 0.5' HIGHER.
X 25.5 SPOT ELEVATION
FLOW DIRECTION
23.09 / 22.63 AS BUILT ELEVATION *
24.67 AS BUILT ELEVATION OF FINISHED FLOOR

* NOTE: ALL OTHER SHOWN NO PART OF TH

AS BUILT ELEVATIONS ALONG PROPERTY LINE MATCH EXISTING ADJACENT PROPERTY ELEVATIONS.

N 0° 01' 10" E 300.73'

AS BUILT ELEVATIONS ALONG PROPERTY LINE MATCH EXISTING ADJACENT PROPERTY ELEVATIONS

S 89° 40' 24" W 499.96

PHASE IV
PHASE III

AS BUILT ELEVATIONS ALONG PROPERTY LINE MATCH EXISTING ADJACENT PROPERTY ELEVATIONS.

PHASE IV
PHASE III

AS BUILT ELEVATIONS ALONG PROPERTY LINE MATCH EXISTING ADJACENT PROPERTY ELEVATIONS.

* NOTE
ALL OTHER ELEVATIONS SHOWN NOT VERIFIED AS PART OF THIS AS BUILT.

NORTH
SITE GRADING NORTH 1" = 30'

RECEIVED
FEB 28 1985
HYDROLOGY SECTION

prints issued

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

revisions

date drawn
JULY 1982

JEFF KREHBIEL ASSOCIATES, aia
architecture · planning

1300 east lewis wichita, kansas 67211
(316) 267-8233

MSM/SP Group

SUNCHASE APARTMENTS
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Albuquerque, New Mexico

sheet title
SITE GRADING NORTH

sheet
SG-2
of sheets

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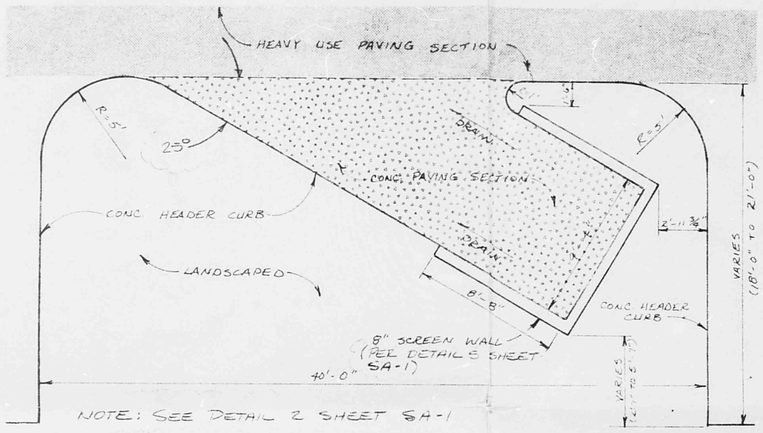
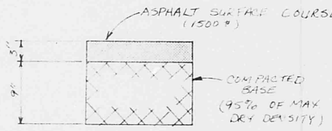


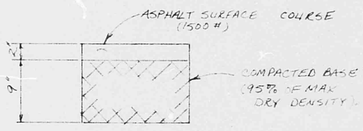
TYPICAL TRASH RACK ISLAND GEOMETRY

SCALE: 1" = 5'



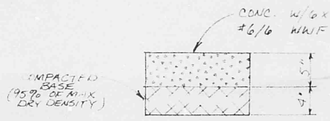
HEAVY USE PAVING SECTION

SCALE: 1" = 1'-0"



LIGHT USE PAVING SECTION

SCALE: 1" = 1'-0"



CONCRETE PAVING SECTION
(FOR USE IN COVERED PARKING AREAS)

GENEREL NOTES:

1. SEE SHEET SG-2 FOR SI
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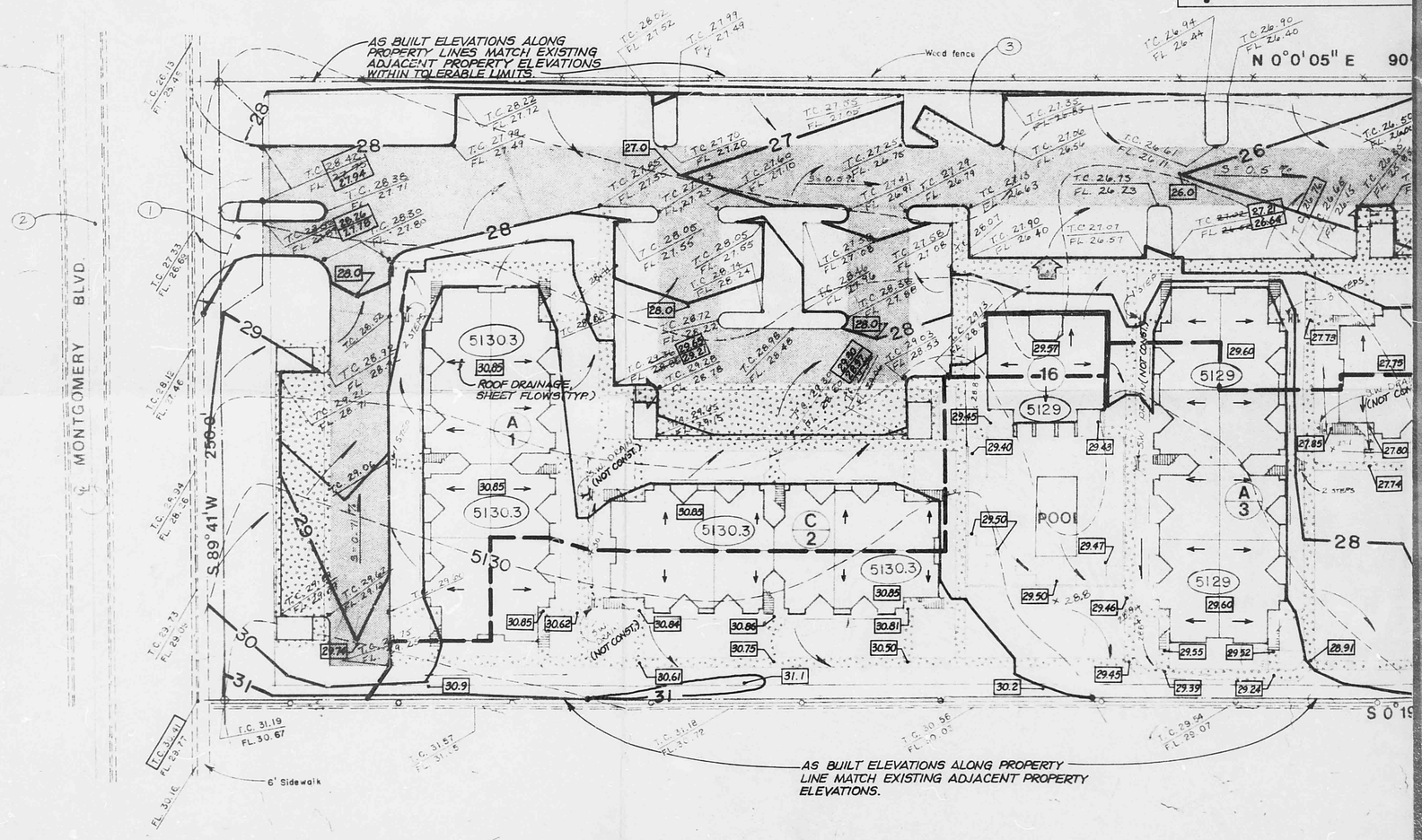
2. MEDIAN CUT AND LEFT PUBLIC IMPROVEMENTS. CONTRACT.
3. TRASH RACK ISLAND, SE

BENCH MARK: ACS BRASS THE S.E. CU BLVD. AND ELEV. = 513

TEMPORARY BENCHMARK: TOP OF SLA SE CORNER TOP OF 5/8" OF THE SITE

LEGEND

5129	BUILDING PAD ELEVATION
	WHEELCHAI
23	EXISTING
23	PROPOSED
	3" ASPHALT
	2" ASPHALT
	CONCRETE
x 28.6	FINISH SPO
	FLOW DIREC
T.C. 22.36 / FL. 21.86	FINISH TOP SPOT ELEVA



HYDROLOGY

F17/D15

FIVE PLANS

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ASPHALT (HEAVY USE PAVING SECTION)		
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NISH SPOT ELEVATION		
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Jim Leymon — Date
Espey, Huston and Associates, Inc.

ENGINEER's DRAINAGE CERTIFICATION
Phase Two

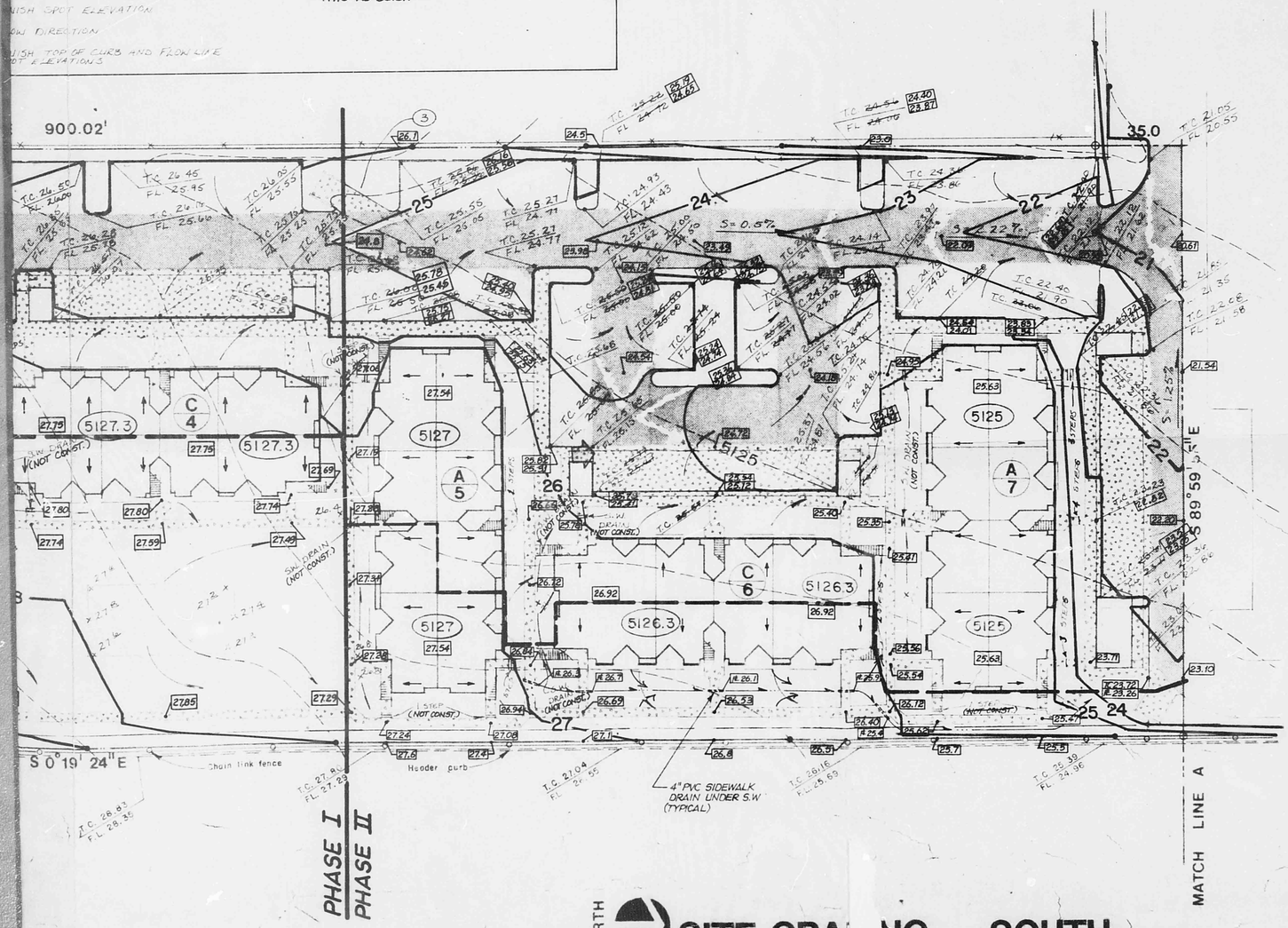
I the undersign being a professional engineer registered in the State of New Mexico do hereby certify that this as-built drawing for Sunchase Apartments, Phase Two was prepared by me or under my supervision and that the as-built elevations shown are based on actual field surveys performed by Espey, Huston and Associates, Inc (EH&A). I further certify that Phase Two is within substantial compliance witht the approved drainage report and plan and that the temporary drainage and erosion control facilities as described in the EH&A letter dated June 1, 1984 located within Phase Four (4) of this project are in place.

Jim Leymon — 10/05/84 — Date
Espey, Huston and Associates, Inc.

JAMES L. LEYMON, JR. NEW MEXICO 8105 REGISTERED PROFESSIONAL ENGINEER

RECEIVED OCT 05 1984 HYDROLOGY SECTION

Phase II



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TRASH BACK GEO TO 25°

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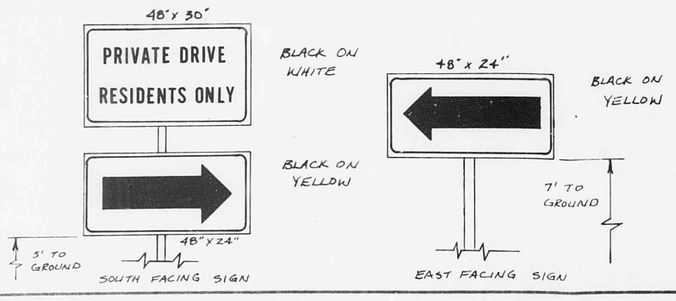
JAMES L. LEYMON, JR. NEW MEXICO 8105 REGISTERED PROFESSIONAL ENGINEER
7/13/83
MSM/SP Group
Albuquerque NM 87112 292-1936

SUNCHASE APARTMENTS
Carlisle & Montgomery Blvd.
Albuquerque, New Mexico

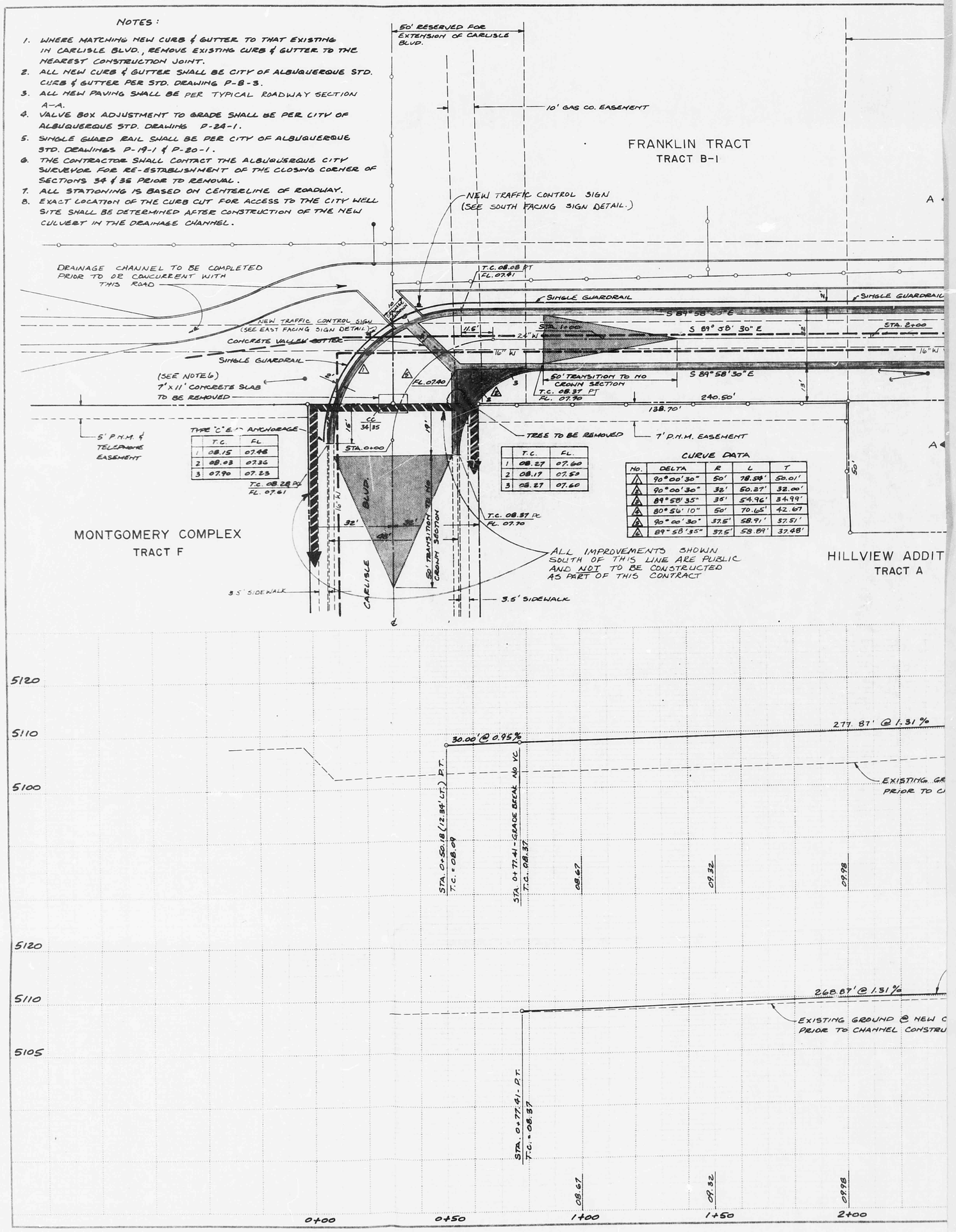
sheet title
SITE GRADING SOUTH

sheet
SG-1
of sheets



NOTES:

1. WHERE MATCHING NEW CURB & GUTTER TO THAT EXISTING IN CARLISLE BLVD., REMOVE EXISTING CURB & GUTTER TO THE NEAREST CONSTRUCTION JOINT.
2. ALL NEW CURB & GUTTER SHALL BE CITY OF ALBUQUERQUE STD. CURB & GUTTER PER STD. DRAWING P-8-3.
3. ALL NEW PAVING SHALL BE PER TYPICAL ROADWAY SECTION A-A.
4. VALVE BOX ADJUSTMENT TO GRADE SHALL BE PER CITY OF ALBUQUERQUE STD. DRAWING P-24-1.
5. SINGLE GUARD RAIL SHALL BE PER CITY OF ALBUQUERQUE STD. DRAWINGS P-19-1 & P-20-1.
6. THE CONTRACTOR SHALL CONTACT THE ALBUQUERQUE CITY SURVEYOR FOR RE-ESTABLISHMENT OF THE CLOSING CORNER OF SECTIONS 34 & 35 PRIOR TO REMOVAL.
7. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAY.
8. EXACT LOCATION OF THE CURB CUT FOR ACCESS TO THE CITY WELL SITE SHALL BE DETERMINED AFTER CONSTRUCTION OF THE NEW CULVERT IN THE DRAINAGE CHANNEL.

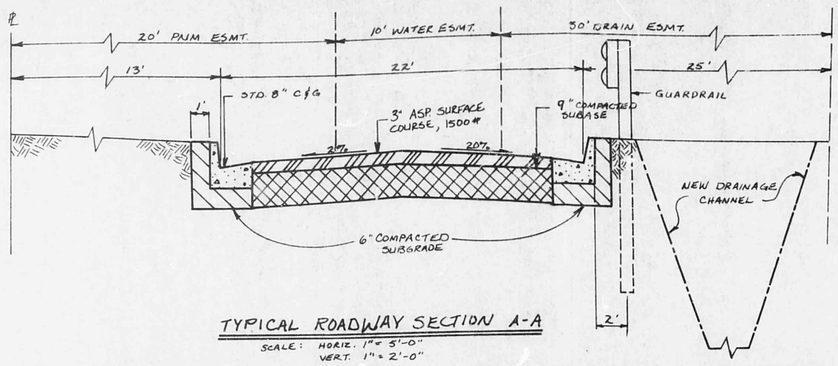


	T.C.	FL.
1	08.15	07.48
2	08.03	07.36
3	07.90	07.23

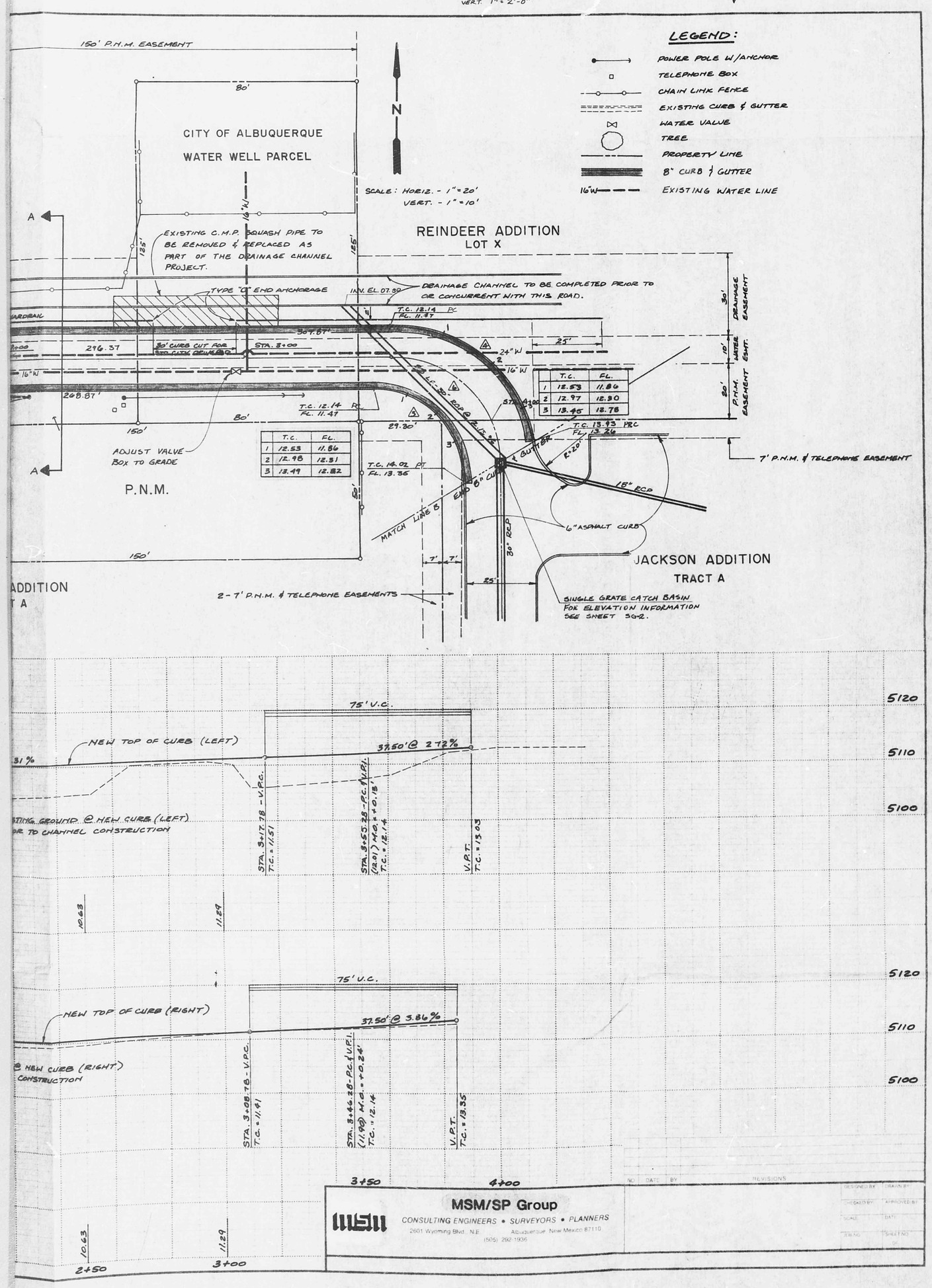
	T.C.	FL.
1	08.27	07.60
2	08.17	07.50
3	08.27	07.60

No.	DELTA	R	L	T
1	90°00'30"	50'	78.54'	50.01'
2	90°00'30"	32'	50.27'	32.00'
3	89°58'35"	35'	54.96'	34.99'
4	80°56'10"	50'	70.65'	42.67
5	90°00'30"	37.5'	58.91'	37.51'
6	89°58'35"	37.5'	58.89'	37.48'

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT



TYPICAL ROADWAY SECTION A-A
SCALE: HORIZ. 1" = 5'-0"
VERT. 1" = 2'-0"



	T.C.	FL.
1	12.53	11.86
2	12.97	12.30
3	13.45	12.78

	T.C.	FL.
1	12.53	11.86
2	12.98	12.31
3	13.49	12.82

MSM/SP Group
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prints issued
FOR CITY REVIEW 7-5-83

revisions

date drawn
JULY 1983

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7/13/83
MSM/SP Group

SUNCHASE APARTMENTS
Carlisle & Montgomery Blvd.
Albuquerque, New Mexico

sheet title
ACCESS ROAD

sheet
SG-3
of sheets

CONCEPTUAL GRADING AND DRAINAGE PLAN

The site is presently in an undeveloped state. It is sparsely covered with natural vegetation. Much of the site has been hard-packed by vehicles crossing it in various locations. Except for a small portion of the south end of the tract, which drains to Montgomery, the site drains to an earth channel along its north boundary. Offsite runoff which would naturally enter the site from the east has been diverted by an 8 inch curb along the entire eastern boundary. Runoff along the southwestern boundary is diverted to the west to a drainage swale in which it by-passes the project site as it flows to the earth channel.

Proposed development of the site will direct all onsite flows to several catch basins in the northwest section of the project site. The runoff will be diverted through underground conduit to the earth channel. A new access to the site from Carlisle Blvd. is required by the City Traffic Engineer. This access will be in the utility and drainage easement where the earth channel is located. In order to carry the 100 year flows in the channel in its new limited section width, caused by the required access, we propose to line the channel with rip-rap. The rip-rap will extend from approximately 130 feet east of the west property line, west to the concrete lined channel. The underground conduit outlet will be within the rip-rap lined section of the channel. The access road will carry the entire 100 year flow from the site to the channel in the event of a failure by the underground system.

LEGAL DESCRIPTION: Tracts A&B, Jackson Addition

Benchmark: ACS brass cap 5-617A, located on the S.E. curb return of Montgomery Blvd. and Morningside Ave. N.E. Elev. = 5134.527

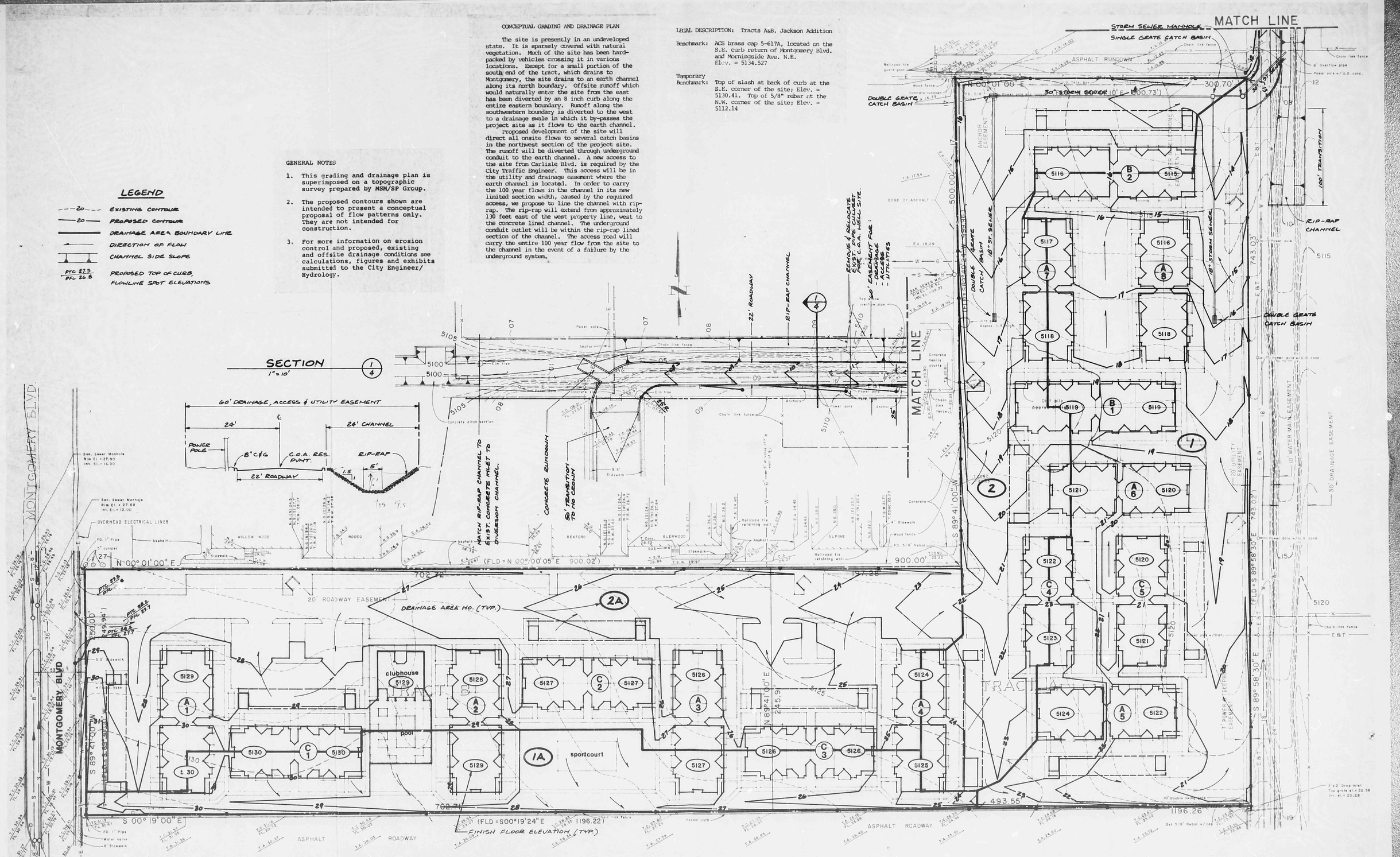
Temporary Benchmark: Top of slash at back of curb at the S.E. corner of the site; Elev. = 5130.41. Top of 5/8" rebar at the N.W. corner of the site; Elev. = 5112.14

GENERAL NOTES

1. This grading and drainage plan is superimposed on a topographic survey prepared by MSM/SP Group.
2. The proposed contours shown are intended to present a conceptual proposal of flow patterns only. They are not intended for construction.
3. For more information on erosion control and proposed, existing and offsite drainage conditions see calculations, figures and exhibits submitted to the City Engineer/ Hydrology.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY LINE
- DIRECTION OF FLOW
- CHANNEL SIDE SLOPE
- PTC 27.3 / PFL 26.8 — PROPOSED TOP OF CURB, FLOWLINE SPOT ELEVATIONS



CONCEPTUAL GRADING & DRAINAGE PLAN

0 20 40 80 160

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SHEET 4 OF 8