

QUINTESSENCE SUBDIVISION - UNIT 3

CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

IMPROVEMENTS FOR GRADING, PAVING AND UTILITIES

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER SHEET, VICINITY MAP AND INDEX TO DRAWINGS
2	PLATS OF GEOMETRY
3	GRADING AND EROSION CONTROL PLANS
4	TYPICAL GRADING DETAILS AND SECTIONS <u>PAVING PLAN & PROFILES</u>
5	COMPOSITE PAVING PLAN
6	KARAK ROAD NE
7	AJLUN DRIVE NE

SHEET NO.	DESCRIPTION
<u>UTILITY PLAN & PROFILES</u>	
8	COMPOSITE UTILITY PLAN
9	KARAK ROAD NE
10	AJLUN DRIVE NE

ENGINEER'S RECORD DRAWING CERTIFICATE

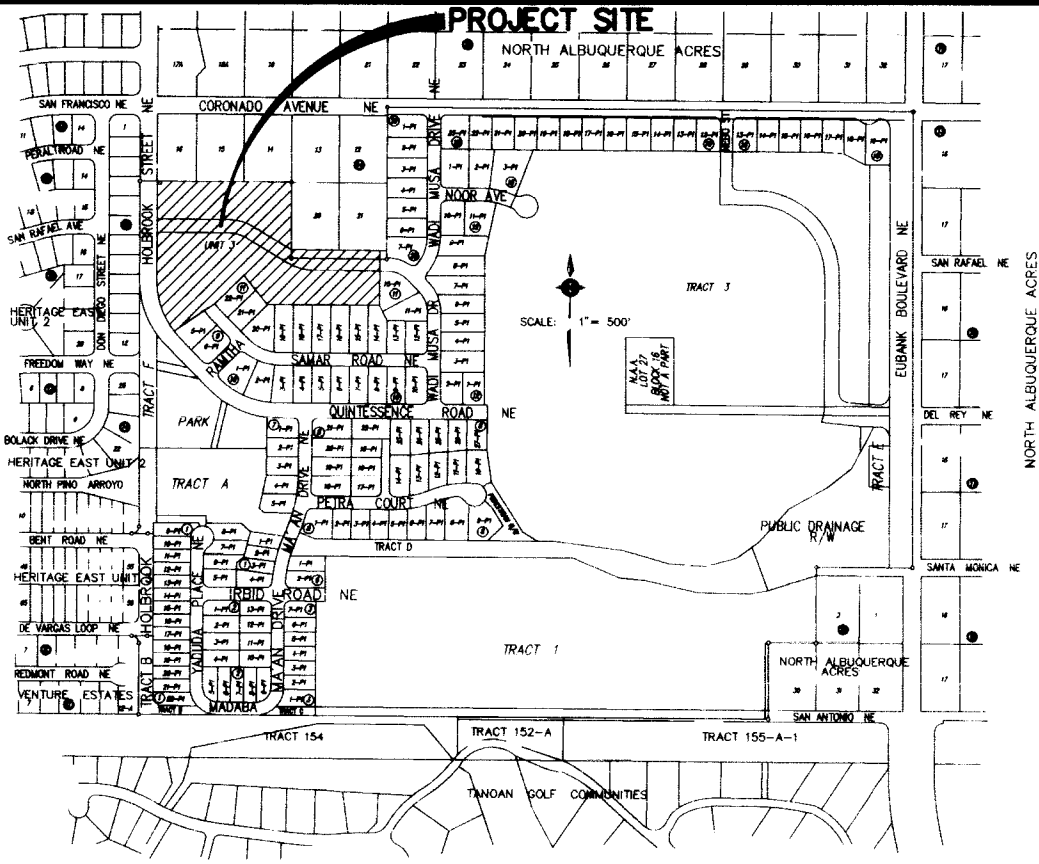
I, the undersigned engineer, a duly qualified Registered Professional Engineer under the laws of the State of New Mexico, do hereby certify that the Record Drawing information shown on these drawings was obtained from field construction and post-construction information obtained by me or under my direct supervision, that the Record Drawing information shown on these drawings was submitted by me or under my direct supervision, and that this Record Drawing information is true and correct to the best of my knowledge and belief. Responsibility for the design concepts, design engineering and calculations, or intent of the Record Drawings resides with others.

Elery A. Biathrow, Jr. 01-10-97
Elery A. Biathrow, Jr., P.E. New Mexico Civil Registration No. 12070

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 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.

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
James P. Hough
DATE 2-24-97



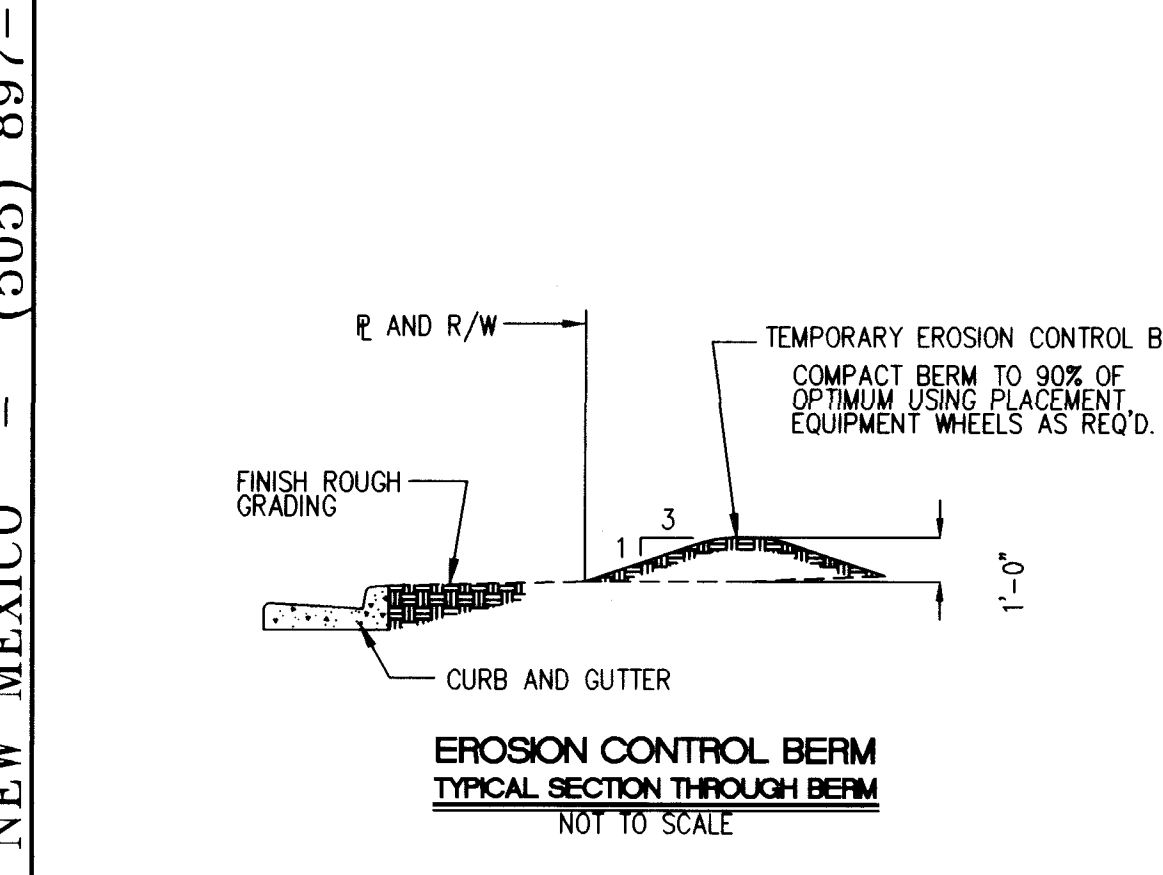
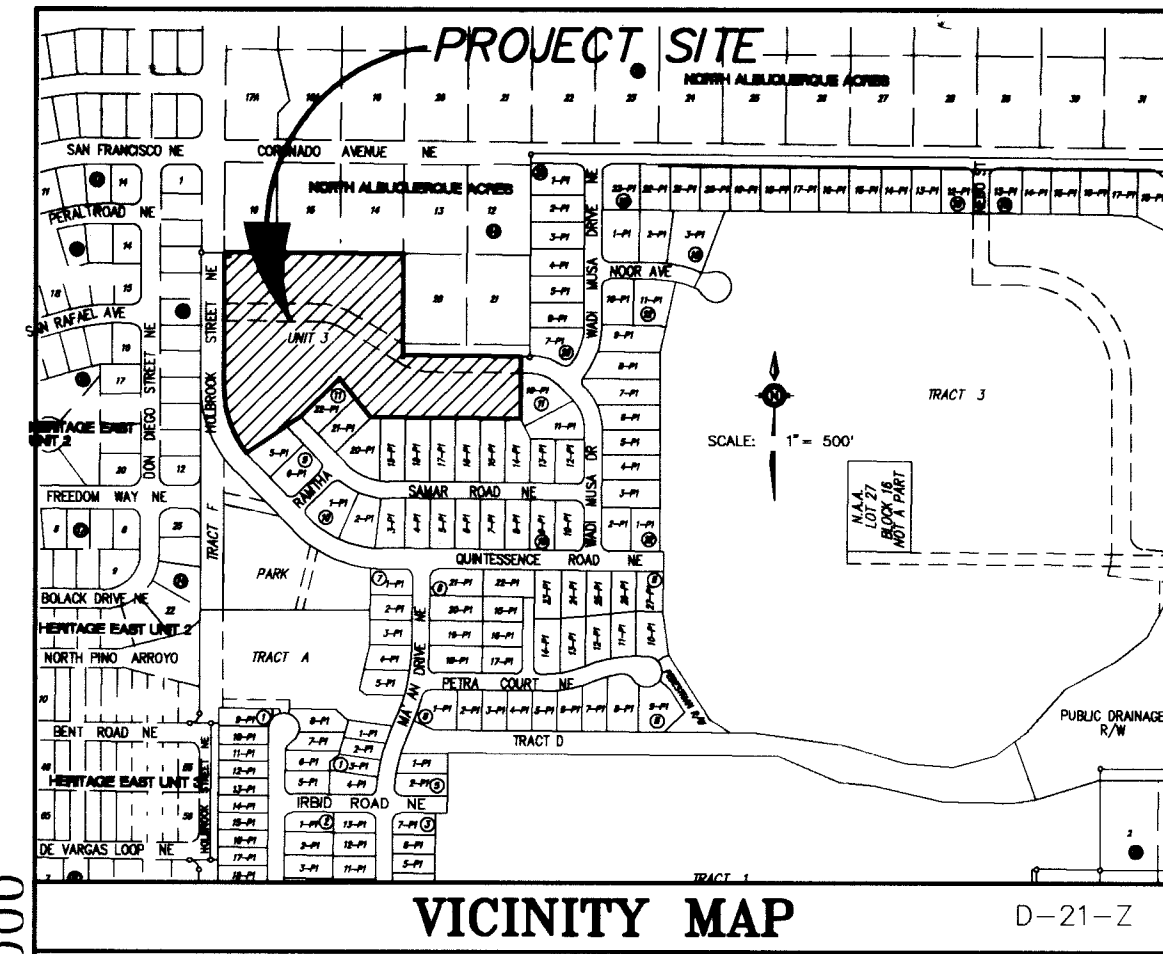
SCALE: 1" = 500' ± VICINITY MAP D-21-Z

- GENERAL NOTES:
- 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. 6.
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
 - 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.
 - THE CONTRACTOR SHALL FURNISH EMD'S ON ALL WATER AND SEWER SERVICE STUBS, CAPS AND PLUGS.
 - 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 ENSURE 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.
 - RESTRAINED JOINTS ARE REQUIRED AT ALL WATER LINE BENDS, TEES, CAPS AND GATE VALVES.
 - THE PUBLIC WATER LINE MUST BE A MINIMUM OF 18" ABOVE THE SEWER LINE AT ALL CROSSINGS.
 - THE CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (857-8200) FIVE (5) WORKING DAYS PRIOR TO NEEDING SHUT-OFF OR TURN-ON OF VALVES. ONLY CITY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVE.
 - 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 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.
 - ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.

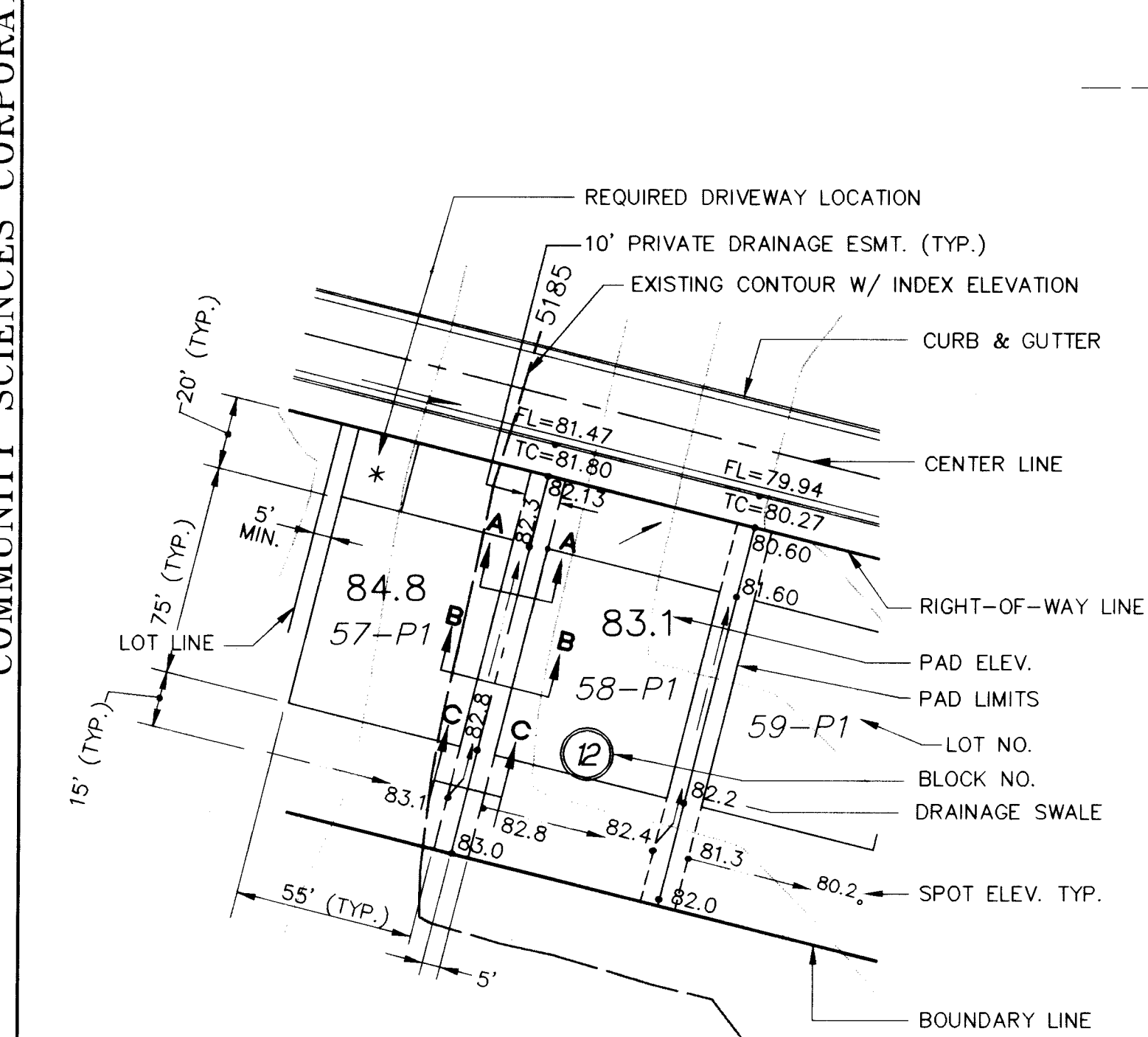
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-5206.92-0197

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1							

ENGINEER'S SEAL 	DATE: OCT, 1995	community sciences corporation	APPROVED FOR CONSTRUCTION CITY ENGINEER 3/28/96 DATE		
	SCALE: AS SHOWN				
	DESIGNED: JMN				
	DRAWN: WLV				
JOB NO.: 2003-PRE		LAND PLANNING P.O. Box 1328	ENGINEERING Corrales, N.M. 87045	PROJECT NO. 5206.92	SHEET 1 OF 10

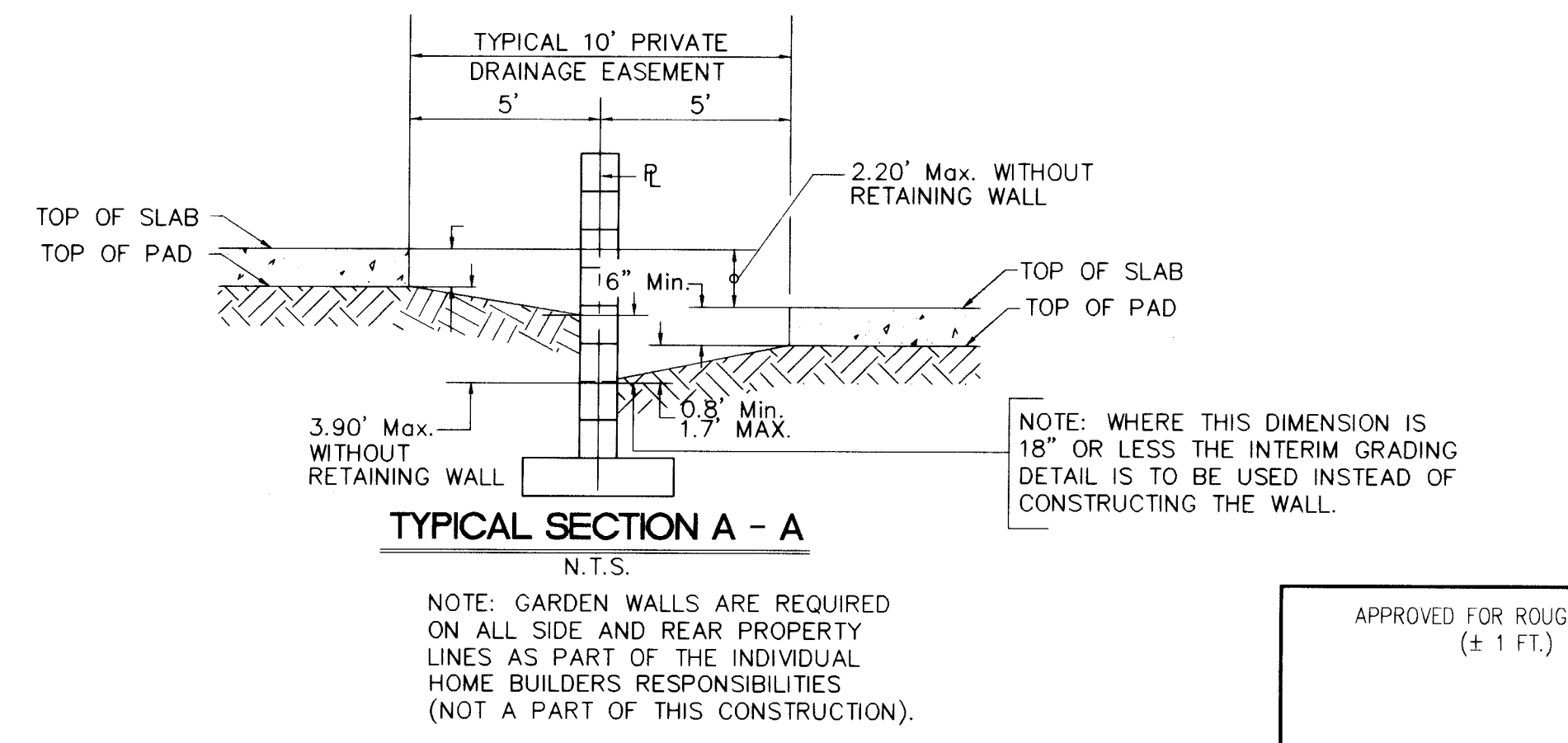
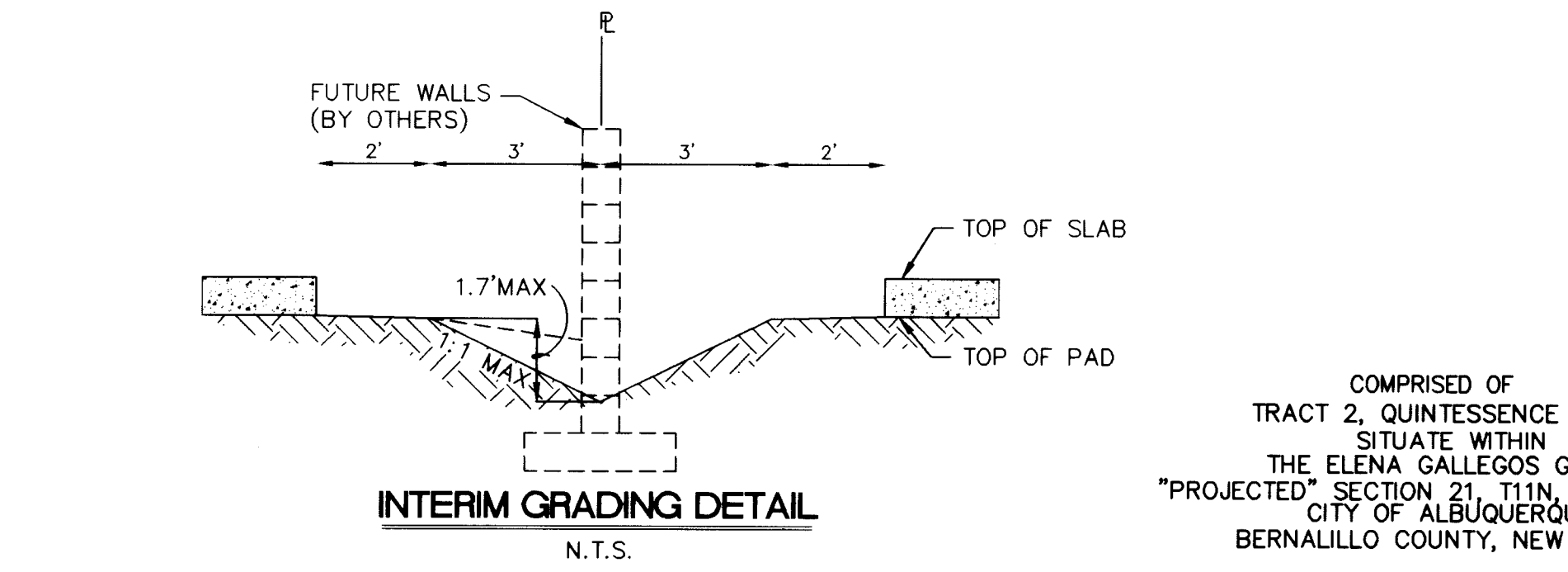
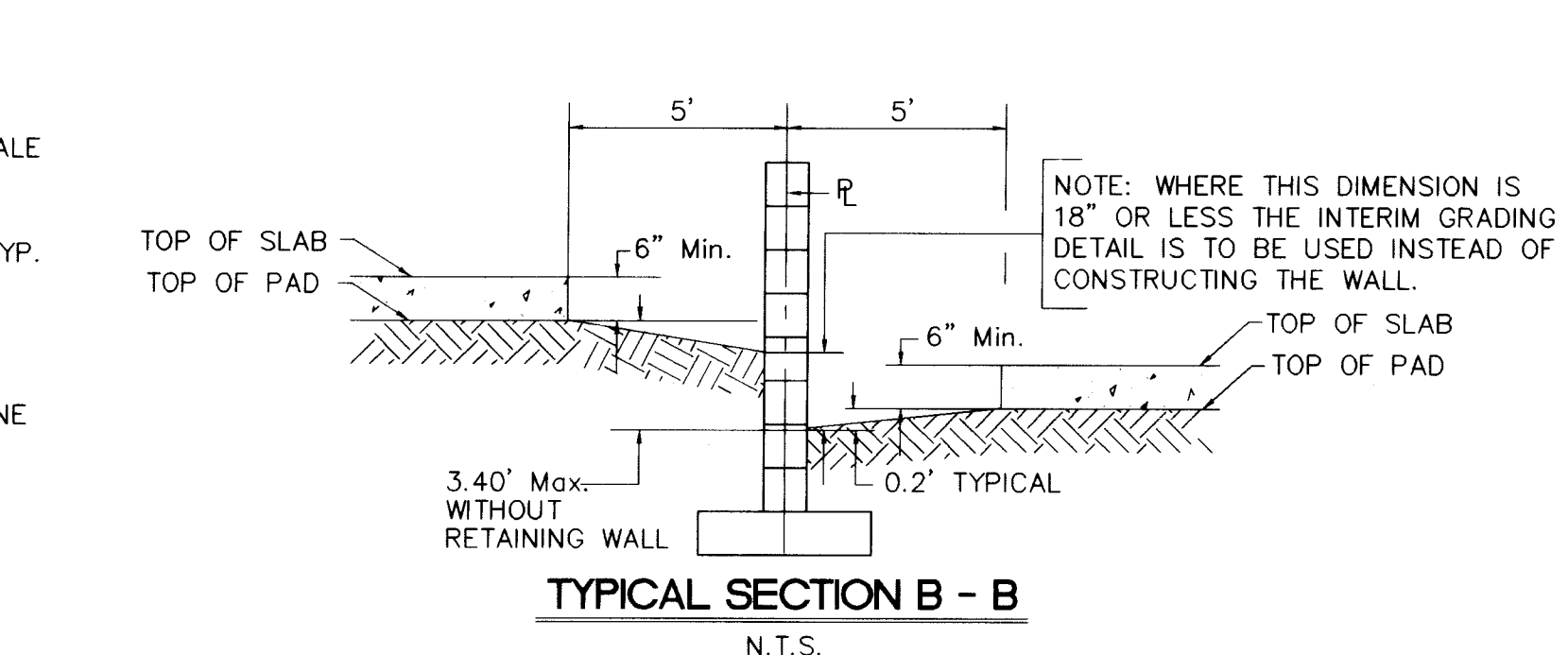
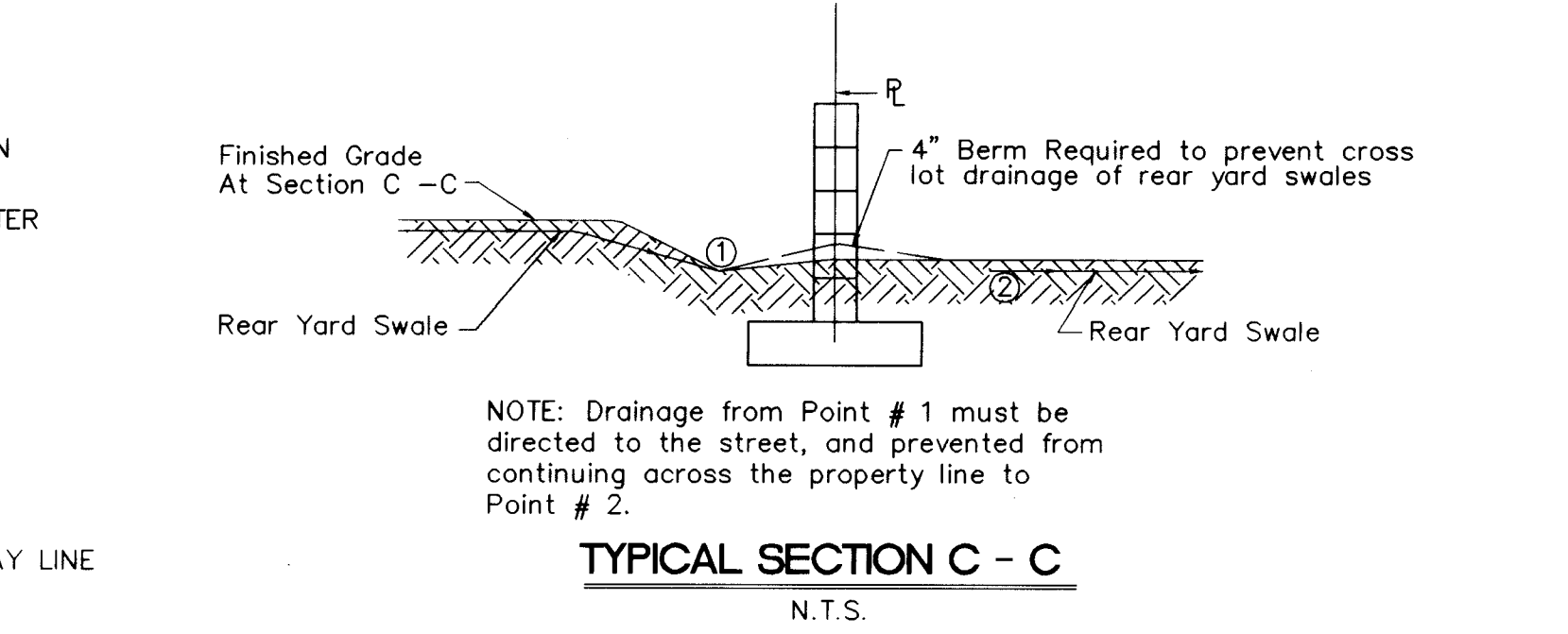
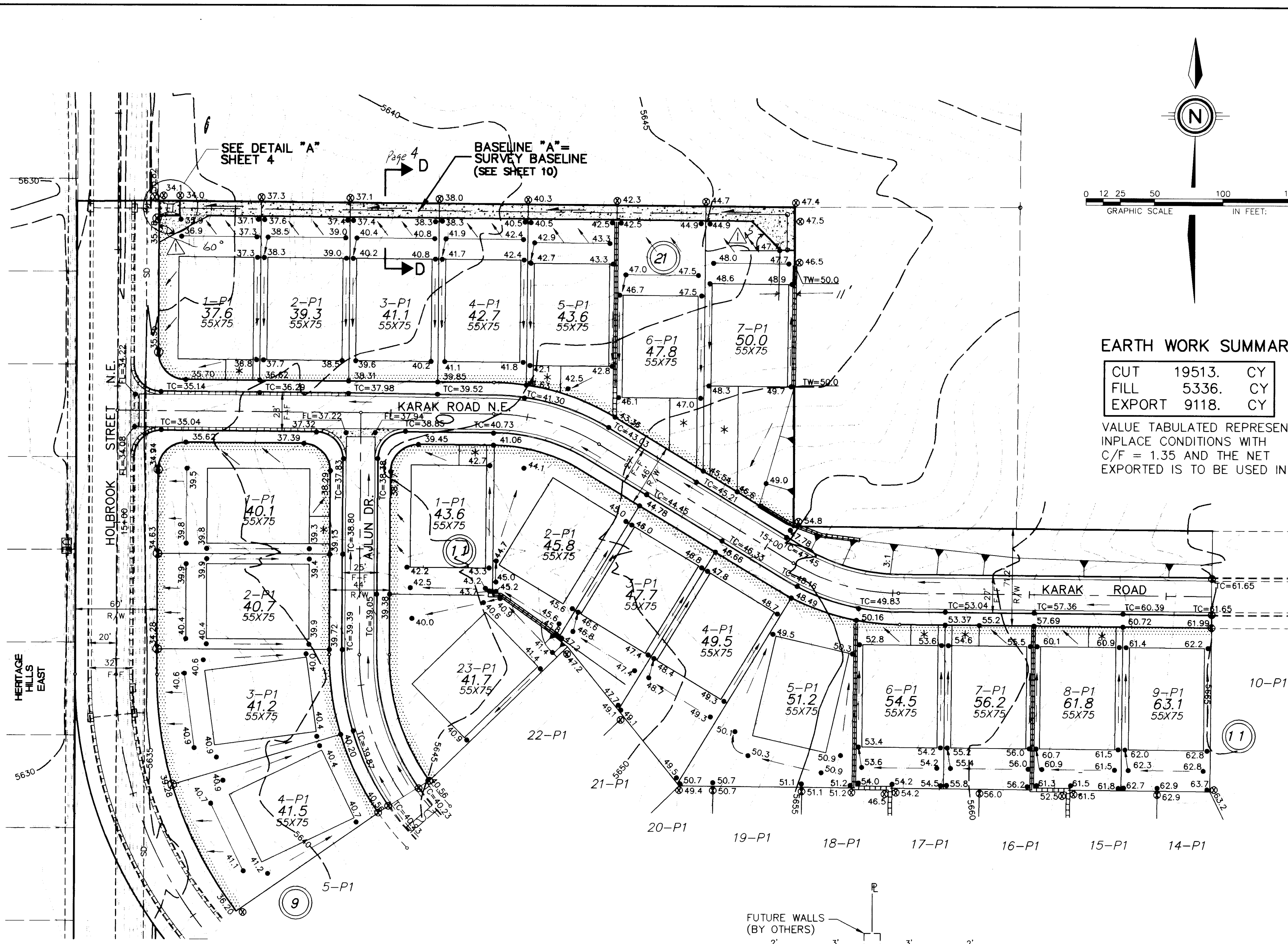


- EROSION CONTROL NOTES:**
- CONTRACTOR SHALL OBTAIN A TOP SOIL DISTURBANCE PERMIT PRIOR TO GRADING.
 - DISTURBED AREAS WILL BE RESEED PER C.O.A. DPM SECTION 1012, WHERE INDICATED BY SHADING, THIS PLAN.
 - PROTECTION OF ADJACENT RIGHT-OF-WAY AND PRIVATE PROPERTY FROM SEDIMENT, WILL BE ACCOMPLISHED BY THE EROSION CONTROL BERM SHOWN HERE ON.



TYPICAL LOT DETAIL A
N.T.S.

* FINISHED GRADE AROUND PERIMETER OF HOUSE SHALL BE A MINIMUM OF 6" BELOW TOP OF CONCRETE SLAB. (SEE SECTIONS THIS SHEET)



EARTH WORK SUMMARY

CUT	19513.	CY
FILL	5336.	CY
EXPORT	9118.	CY

VALUE TABULATED REPRESENT INPLACE CONDITIONS WITH C/F = 1.35 AND THE NET EXPORTED IS TO BE USED IN UNIT 1

LEGEND

- TC=98.43 PROPOSED TOP OF CURB ELEVATION
- 99.0 PROPOSED SPOT ELEVATION
- ⊗ 09.0 EXISTING SPOT ELEVATION (GRND & TC)
- EROSION CONTROL BERM
- PROPOSED CONCRETE VALLEY GUTTER
- ===== EXISTING CURB & GUTTER
- ===== PROPOSED MOUNTABLE CURB & GUTTER
- ===== PROPOSED STANDARD CURB & GUTTER
- 4973 EXISTING CONTOUR W/ INDEX ELEVATION
- SWALE
- FLOW ARROW
- 30" SD EXISTING STORM DRAIN
- 30" SD PROPOSED STORM DRAIN
- WATER BLOCK
- PROPOSED RETAINING WALL
- PROPOSED GARDEN WALL
- PROPOSED 6" CHANNEL WALL TO BE CONSTRUCTED AS PART OF PAVING CONTRACT NOT PART OF GRADING CONTRACT
- PROPOSED SLOPE

LOT GRADING SPECIFICATIONS:

- CROSS LOT DRAINAGE WILL NOT BE PERMITTED. IF LOCAL CONDITIONS SHOULD DICTATE A RELAXATION OF THIS RULE, THEN THE APPROPRIATE PUBLIC OR PRIVATE DRAINAGE EASEMENTS WILL BE DEDICATED ON THE PLAT.
- CRITERIA FOR SETTING LOT ELEVATION CONTROL GRADES SHALL INCLUDE THE FOLLOWING:
 - ALL DRAINAGE SWALES AND YARD AREAS SHALL HAVE MINIMUM SLOPES OF 1% AND MAXIMUM SLOPES OF 3 HORIZONTAL TO 1 VERTICAL.
 - BUILDING PADS SHALL BE SET AT LEAST 0.3' ABOVE THE HIGHEST ELEVATION OF ADJACENT SWALES.
 - PAD ELEVATIONS WILL BE ASSUMED TO BE EQUAL TO FINISHED FLOOR OF GARAGE. LONGITUDINAL GRADIENT OF DRIVEWAY SHALL NOT BE LESS THAN ONE PERCENT (1%) NOT STEEPER THAN TEN PERCENT (10%), IF DRIVEWAY ALSO IS USED AS A REQUIRED WALK. IF USED ONLY AS A DRIVEWAY, THE LONGITUDINAL GRADIENT SHALL NOT EXCEED 14% (1 IN 7).
 - USABLE YARD AREAS SHALL HAVE MINIMUM DIMENSIONS OF 30' X 15'.
- WHERE YARD GRADES OF ADJACENT LOTS AT PROPERTY LINES CANNOT BE MATCHED USING THE ABOVE CRITERIA, RETAINING WALL SHALL BE PROVIDED TO ACCOMMODATE GRADE DIFFERENTIALS.

NOTE: CONTRACTOR SHALL OBTAIN A TOP SOIL DISTURBANCE PERMIT PRIOR TO GRADING

AS BUILT INFORMATION

CONTRACTOR SHALL MAINTAIN A STANDARD ACS ALUMINUM CAP STAMPED "5-D2T 1985" AND IS REVISED TO AN ALUMINUM PIPE PROJECTING 0.1 FOOT ABOVE GROUND. IT IS LOCATED 783 FEET NORTH OF THE CENTERLINE INTERSECTION OF CORONADO AVENUE AND HOLBROOK STREET, AND 85 FEET EAST OF THE CENTERLINE OF HOLBROOK STREET. ELEV = 5650.56

ENGINEER'S SEAL

DESIGNED BY: JMN DATE: 10/95
DRAWN BY: LJD DATE: 10/95
CHECKED BY: JSH DATE: 12/95

REVISIONS

NO.	DATE	REMARKS
1	12-21-95	DESIGN

APPROVALS

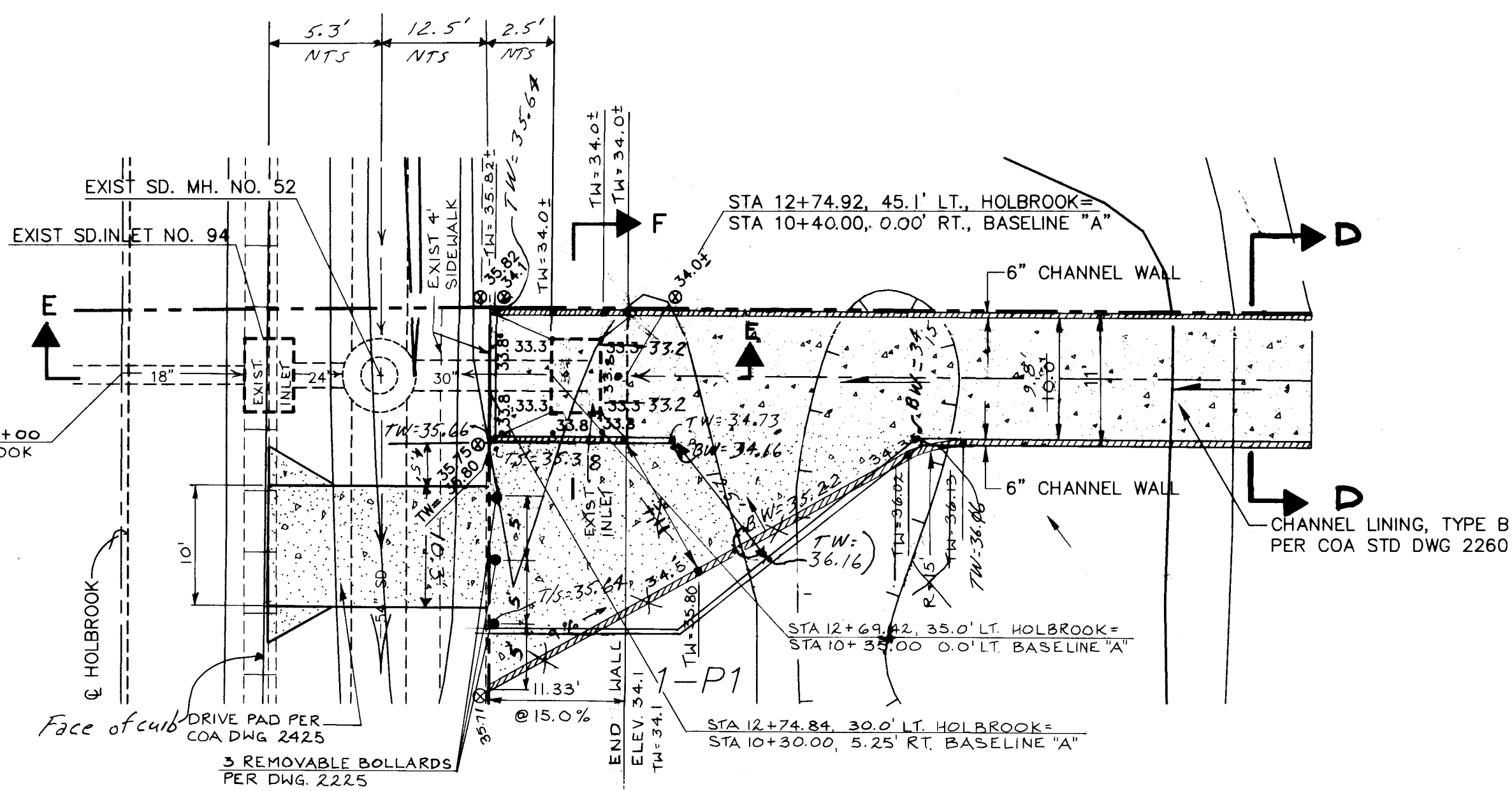
ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	2-6-96	WATER	WATER	1-3-96
TRANSPORTATION	1-3-96	WASTE WATER	WASTE WATER	
HYDROLOGY	1-8-96			

PROJECT NO. 5206.92 **MAP NO. D-21** **SHEET 3 OF 10**

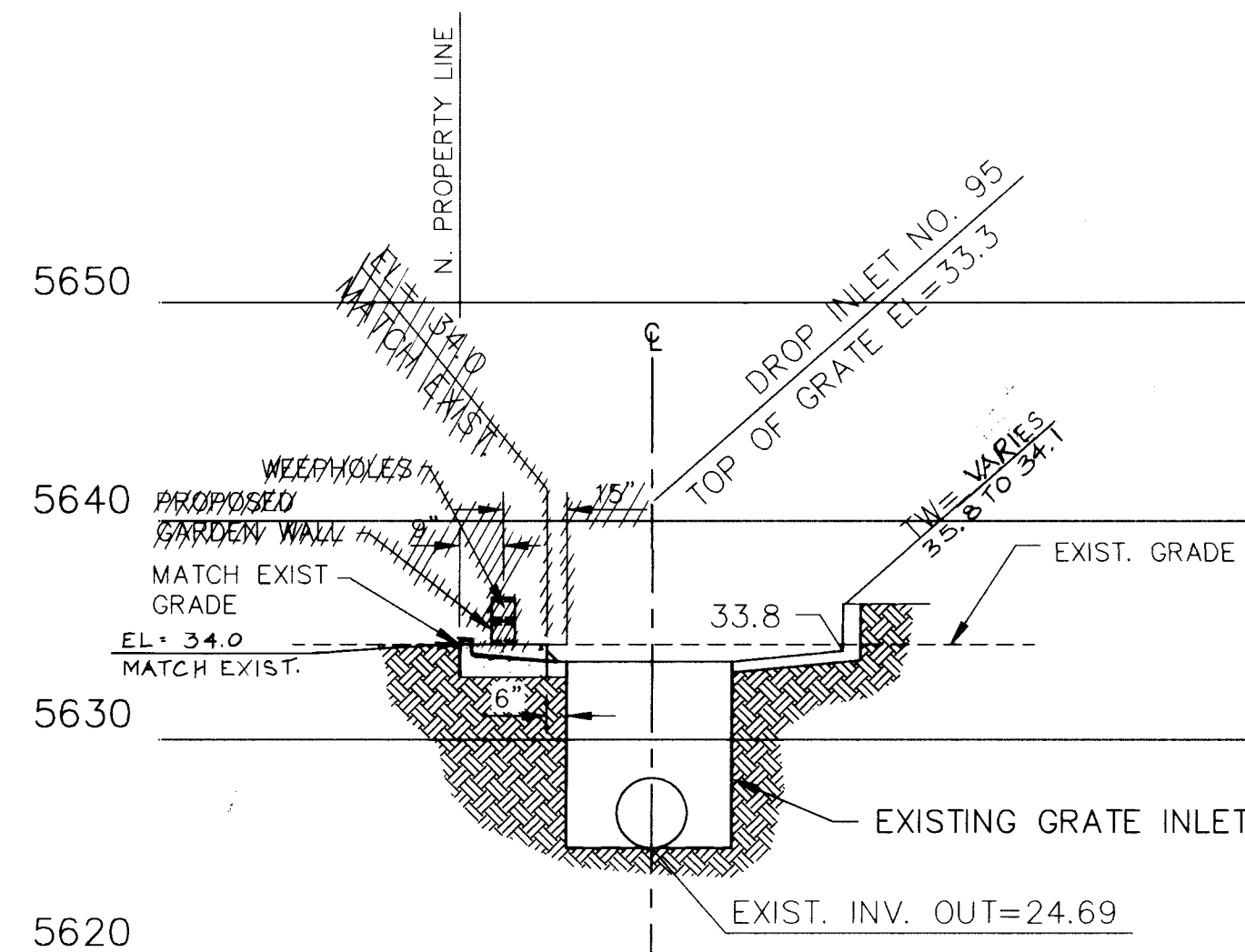
I, the undersigned engineer, a duly qualified Registered Professional Engineer under the laws of the State of New Mexico, do hereby certify that the Record Drawing information shown on these drawings was obtained from field construction and post-construction information and that I am not exercising my professional supervision, that I am not providing information shown on these drawings was directly or indirectly under my direct supervision, and that this Record Drawing information is true and correct to the best of my knowledge and belief. Responsibility for the design, concepts, design, engineering and calculations, or intent of the Record Drawings resides with others.

Elmer A. Blathorn, Jr. 01-10-97

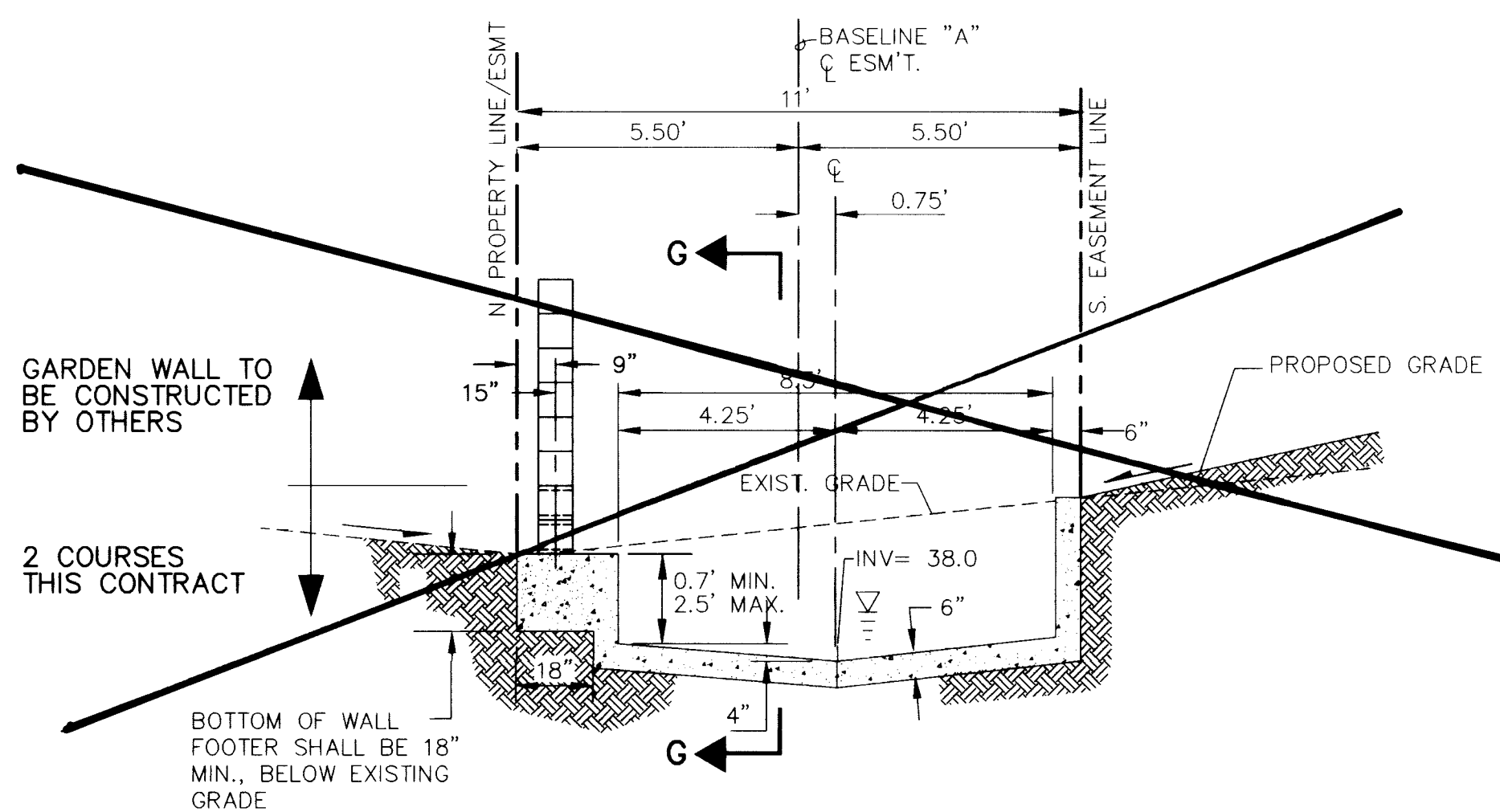
Elmer A. Blathorn, Jr., P.E. New Mexico Civil Registration No. 12070



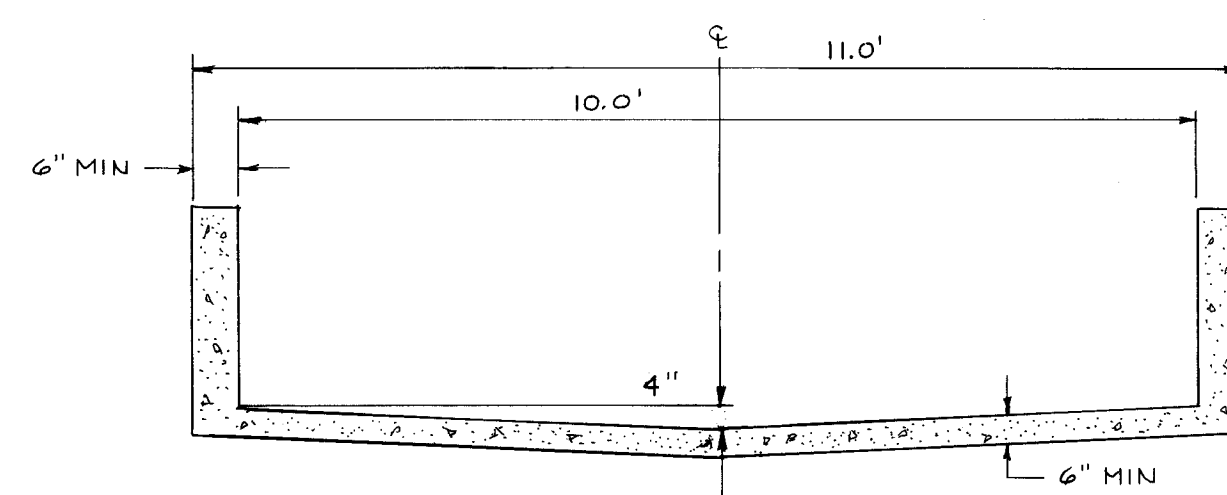
DETAIL "A" 
SCALE: 1" = 10'



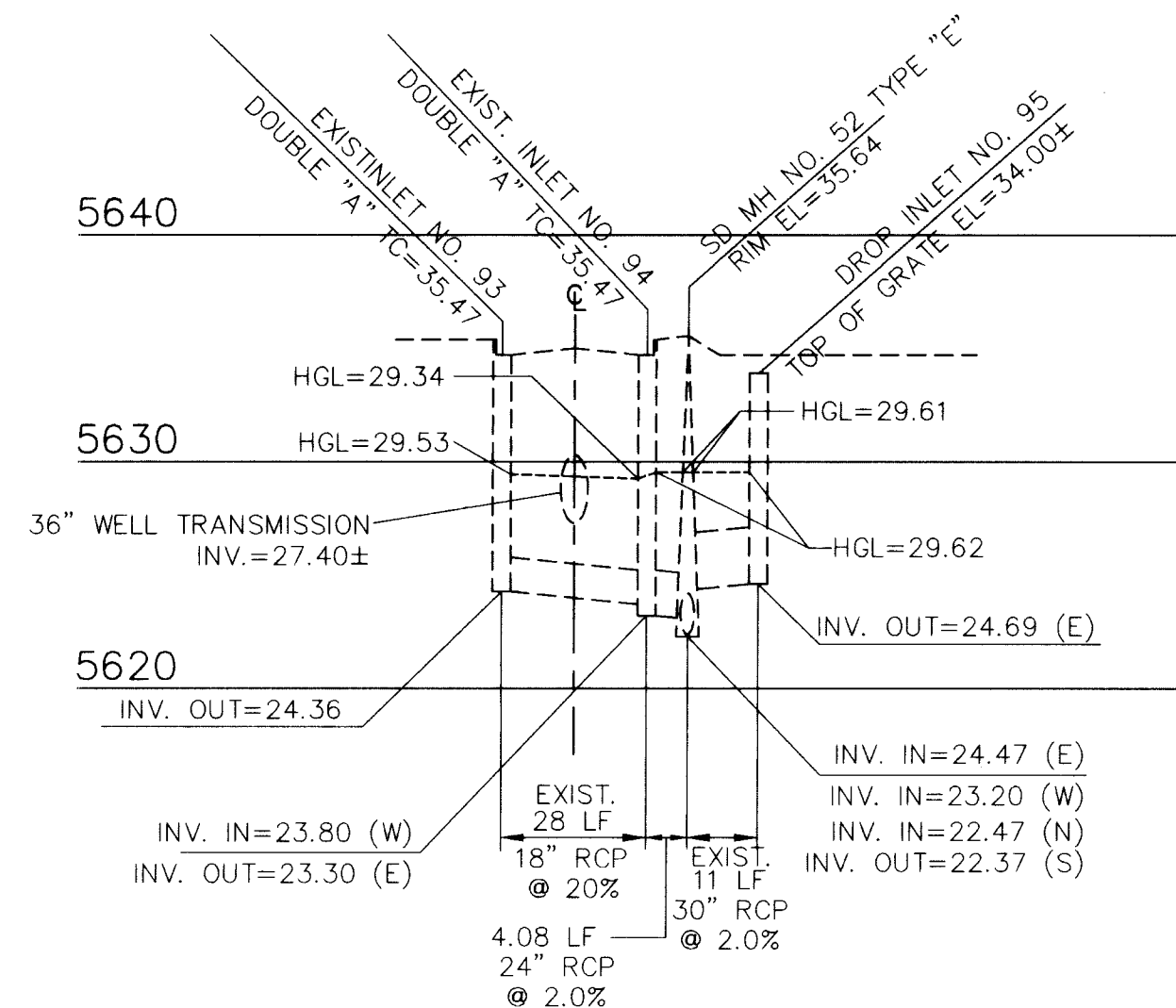
SECTION "F-F" 
N.T.S.



SECTION "D-D" 
TYPICAL CHANNEL CROSS SECTION
TYPE B, AS PER C.O.A. STD. DETAIL 2260
SCALE: NTS



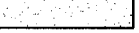
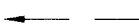
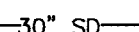
SECTION D-D 
10' CHANNEL CENTERED IN 11' R/W
TYPE 'B' PER COA 2260
NTS.



HOLBROOK INLET 93, 94, 95 DETAIL

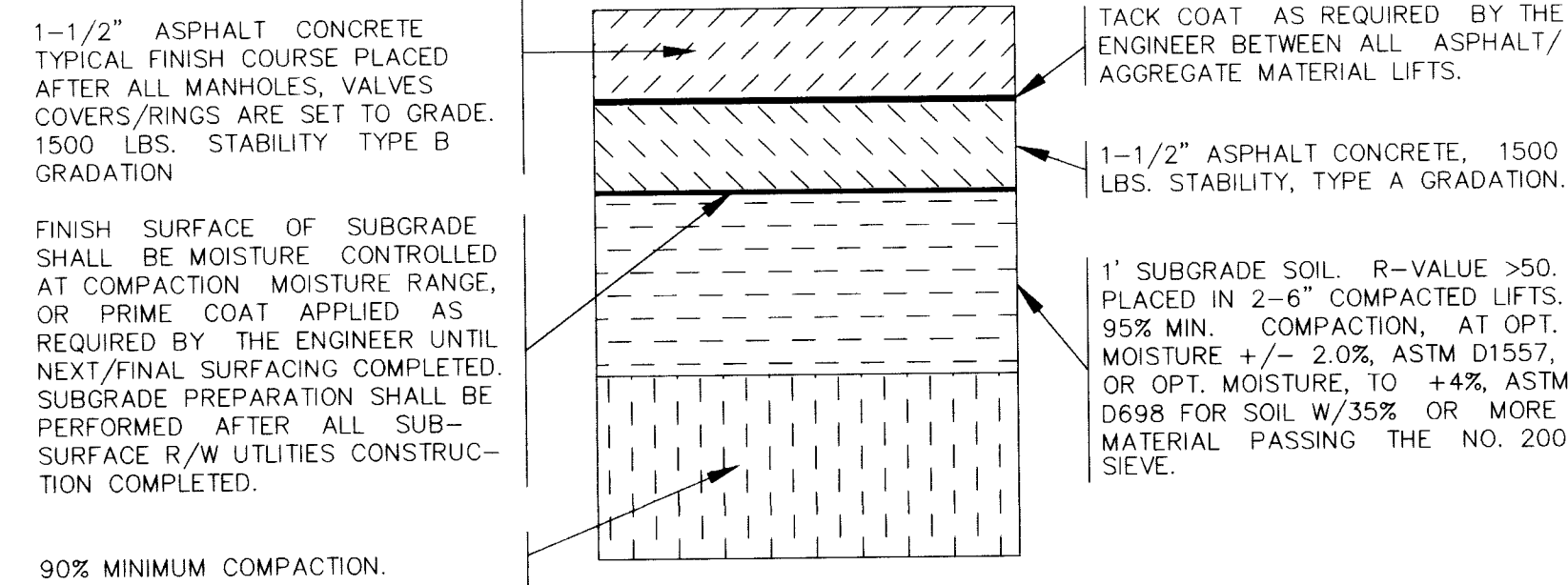
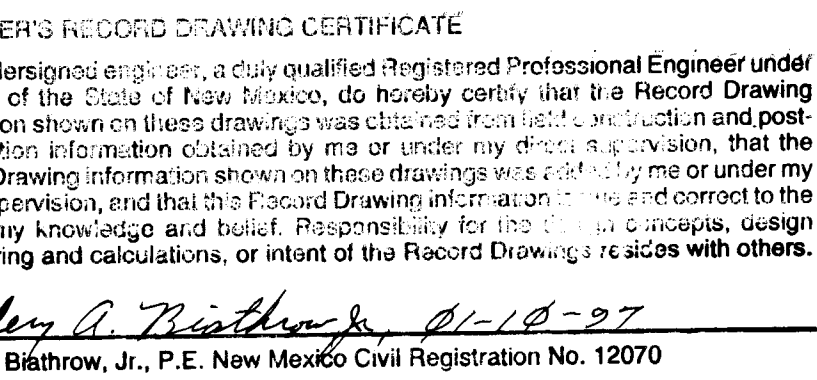
SECTION "E-E"
N.T.S.

LEGEND

• TC=98.43	PROPOSED TOP OF CURB ELEVATION
• 99.0	EXISTING SPOT ELEVATION
⊗ 09.0	EXISTING SPOT ELEVATION (GRND & TC)
	EROSION CONTROL BERM
	PROPOSED CONCRETE VALLEY GUTTER
== == == ==	EXISTING CURB & GUTTER
	PROPOSED MOUNTABLE CURB & GUTTER
	PROPOSED STANDARD CURB & GUTTER
—4973—	EXISTING CONTOUR W/ INDEX ELEVATION
	SWALE
	FLOW ARROW
—30" SD—	EXISTING STORM DRAIN
—30" SD—	PROPOSED STORM DRAIN
	WATER BLOCK
	PROPOSED GRASS WALL
	PROPOSED RETAINING WALL
	PROPOSED 6" CHANNEL WALL TO BE CONSTRUCTED AS PART OF PAVING CONTRACT NOT PART OF GRADING CONTRACT
	PROPOSED SLOPE

[illegible]

SCANNED BY
BY LASON



46' R/W (27' F-F MIN. W/ MOUNTABLE C & G)
(28' F-F MIN. W/ STANDARD C & G)

4' 2% 2.63' 2.00' 2% 2% 4' 2% SLOPE

FINISHED GRADE AT PROPERTY LINE TO BE AT 0.33' ABOVE TOP OF CURB.

ROLL TYPE MOUNTABLE CURB & GUTTER

STANDARD CURB & GUTTER

PAVING PER RESIDENTIAL STREET SECTION STD. DWG. NO. 2405

SCANNED BY
BY LASON

[illegible]

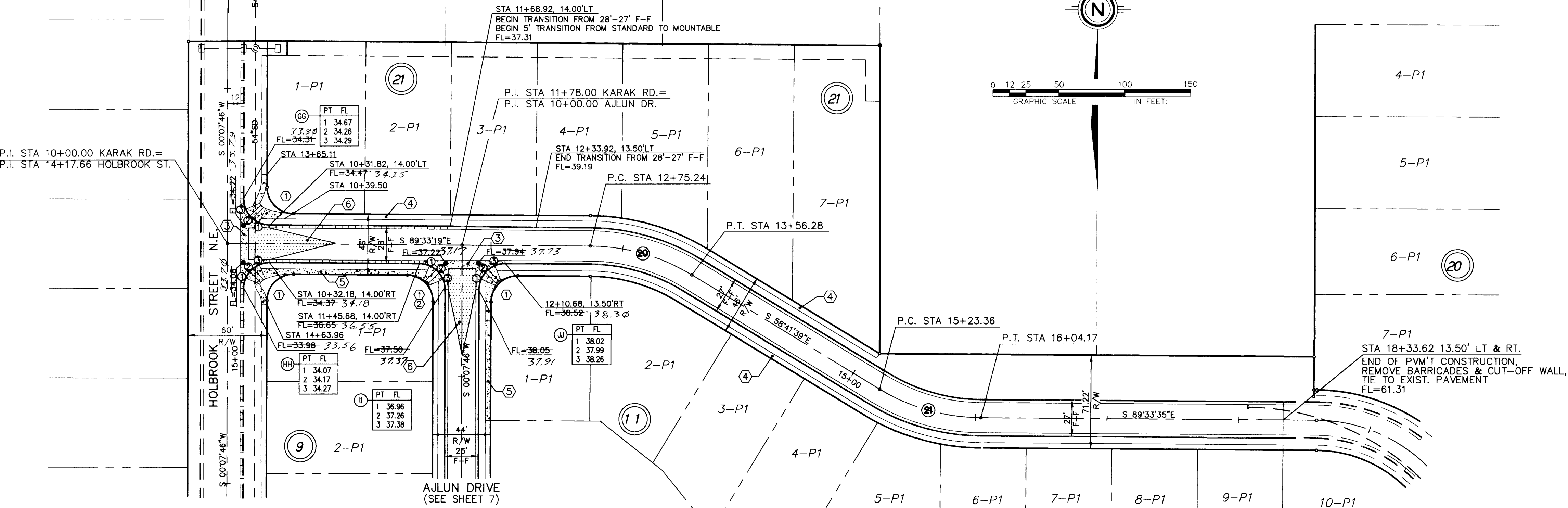
ENGINEER'S RECORD DRAWING CERTIFICATE

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Ellery A. Blathrow, Jr. 01-18-97
Ellery A. Blathrow, Jr., P.E. New Mexico Civil Registration No. 12070.

② CURVE DATA
R = 150.00'
L = 81.04'
Δ = 30°57'23"
CH = 80.06
CB = S74°05'02"E

② CURVE DATA
R = 150.00'
L = 80.81'
Δ = 30°51'56"
CH = 79.83'
CB = S74°07'37"E



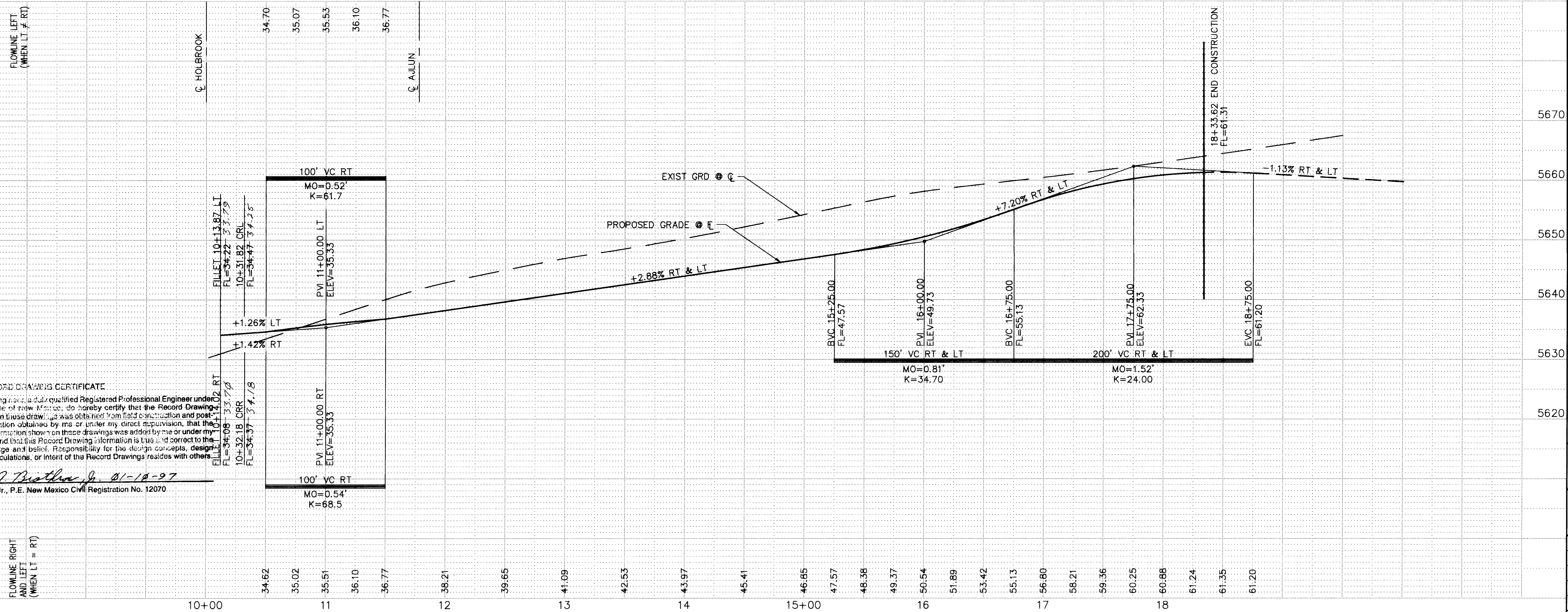
CURVE DATA (FACE OF CURB)						
CURVE ID	RADIUS	ARC	DELTA	TAN	CHORD	CHORD BEG
GG	20.00	31.31	089-41-30	19.89	28.21	N44-42-59W
HH	20.00	31.52	090-18-30	20.11	28.36	N45-17-01E
II	20.00	31.31	089-41-30	19.89	28.21	N44-42-59W
JJ	20.00	31.52	090-18-30	20.11	28.36	N45-17-01E

LEGEND	
● FL=74.11	PROPOSED CURB FLOWLINE ELEVATION
○ 73.6	EXISTING SPOT ELEVATION (GRND & TO)
---	PROPOSED VALLEY GUTTER/ SIDEWALK
---	EXISTING CURB & GUTTER
---	PROPOSED MOUNTABLE CURB & GUTTER
---	PROPOSED STANDARD CURB & GUTTER
→	FLOW ARROW
--->---	CROWN TRANSITION

- KEY NOTES
- WHEELCHAIR RAMP PER COA STD. DWG. 2441 CASE 1
F DIMENSION = 9.6' &
H DIMENSION = 12'
 - MOUNTABLE TO STANDARD CURB TRANSITION PER COA STD. DWG. 2418
 - CONC. VALLEY GUTTER PER COA STD. DWG. 2420
 - FUTURE 4' SIDEWALK, BY OTHERS
 - PROPOSED 4' SIDEWALK, THIS CONTRACT
 - 50' CROWN TRANSITION PER C.O.A. STD. DWG. 2401

KARAK ROAD NE

MOUNTABLE AND STANDARD CURB & GUTTER W/ RESIDENTIAL PAVING
(SEE SHEET 5 FOR STREET SECTION)

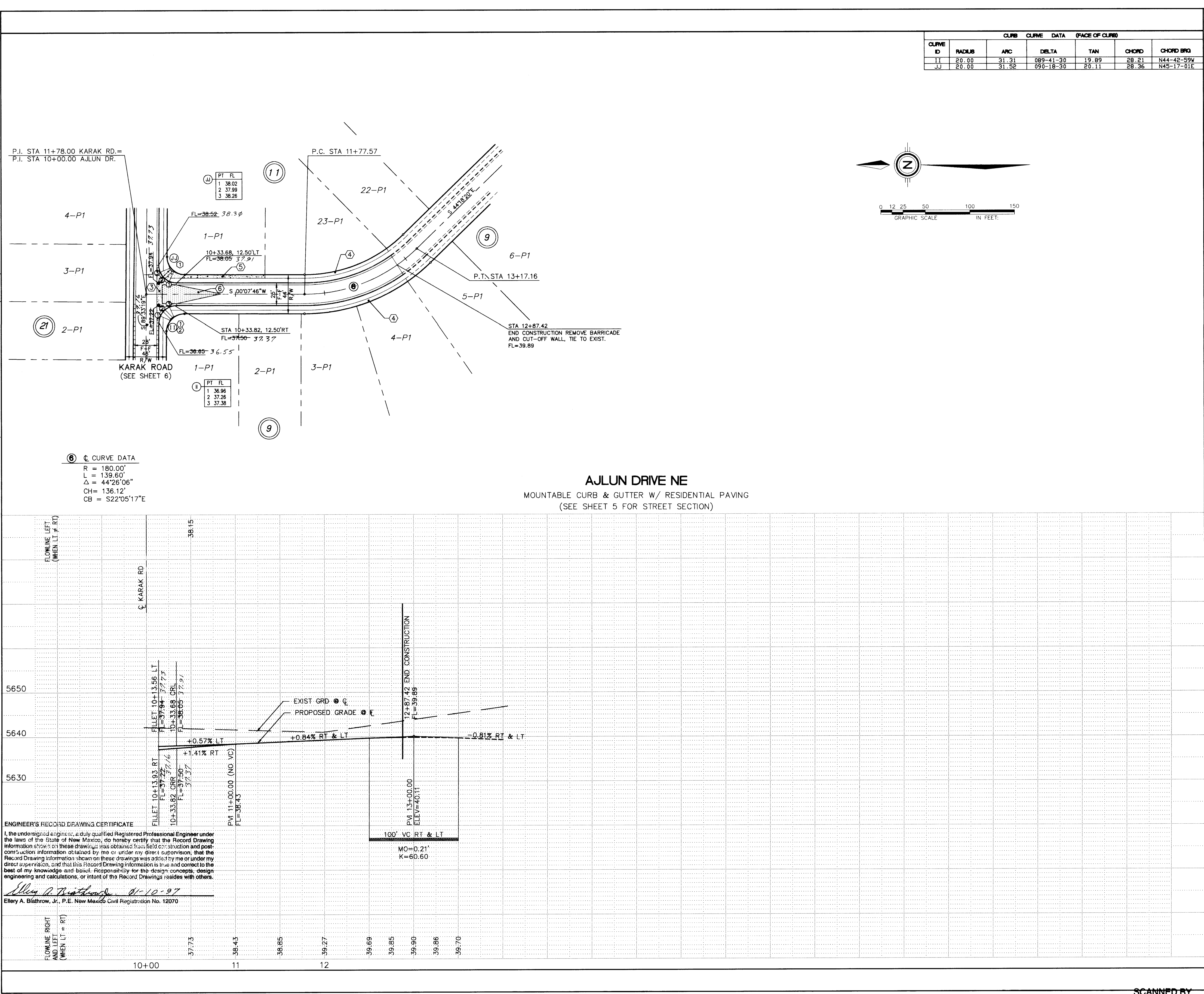


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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SCALE:
HORIZ: 1" = 50'
VERT: 1" = 10'

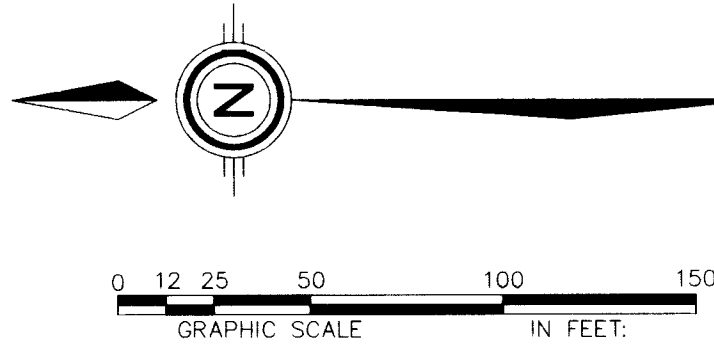
community sciences corporation
LAND PLANNING P.O. Box 1328
ENGINEERING Corrales, N.M. 87048
SURVEYING

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: QUINTESSENCE - UNIT 3 PAVING PLAN & PROFILE KARAK ROAD N.E.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>B. J. Smith</i>	2-6-96	WATER	N/A RUK	1-3-96
TRANSPORTATION	<i>Bob Smith</i>	1-3-96	WASTE WATER		
HYDROLOGY	N/A Sme	1-8-96			
PROJECT NO.	5206.92	MAP NO.	D-21	SHEET	6 OF 10



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Elery A. Blathrow, Jr. 11-10-97
Elery A. Blathrow, Jr., P.E. New Mexico Civil Registration No. 12070

CURB CURVE DATA (FACE OF CURB)						
CURVE ID	RADIUS	APC	DELTA	TAN	CHORD	CHORD BEQ
II	20.00	31.31	089-41-30	19.89	28.21	N44-42-59W
JJ	20.00	31.52	090-18-30	20.11	28.36	N45-17-01E



- LEGEND
- FL=74.11 PROPOSED CURB FLOWLINE ELEVATION
 - 73.6 EXISTING SPOT ELEVATION (GRND & TC)
 - PROPOSED VALLEY GUTTER/ SIDEWALK
 - EXISTING CURB & GUTTER
 - PROPOSED MOUNTABLE CURB & GUTTER
 - PROPOSED STANDARD CURB & GUTTER
 - FLOW ARROW
 - CROWN TRANSITION

- KEY NOTES:
- WHEELCHAIR RAMP PER COA STD. DWG. 2441 CASE 1
F DIMENSION = 9.6' &
H DIMENSION = 12'
 - MOUNTABLE TO STANDARD CURB TRANSITION PER COA STD. DWG. 2418
 - CONC. VALLEY GUTTER PER COA STD. DWG. 2420
 - FUTURE 4' SIDEWALK, BY OTHERS
 - PROPOSED 4' SIDEWALK, THIS CONTRACT
 - 50' CROWN TRANSITION PER C.O.A. STD. DWG. 2401

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

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

community sciences corporation
LAND PLANNING P.O. Box 1328
ENGINEERING Corrales, N.M. 87048
SURVEYING

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: QUINTESSENCE - UNIT 3 PAVING PLAN & PROFILE AJLUN DRIVE N.E.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>A.G. Goodley</i>	2-6-96	WATER		
TRANSPORTATION	<i>Ray Smith</i>	1-3-96	WASTE WATER	<i>N/A RWK</i>	1-3-06
HYDROLOGY	<i>N/A SMC</i>	1-8-96			
PROJECT NO.	5206.92	MAP NO.	D-21	SHEET	7 OF 10

SCANNED BY
BY LASON



NOTES:

1. VALVES "A", "B" & "C" SHALL BE SHUT-OFF SO NON-PRESSURE CONNECTIONS CAN BE MADE
2. CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (857-8200) FIVE(5) WORKING DAYS PRIOR TO VALVE SHUT-OFF
ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES

RESTRAINING LENGTHS	
FITTING	LR (FT)
6" x6" TEE	RUN 10', BRANCH 2'
6" 11 1/4" BEND	2'
6" 22 1/2" BEND	3'
6" GATE VALVE	46'

LR = LENGTH TO BE RESTRAINED
EACH SIDE OF THE FITTING. FOR
TEES, ALL THREE LEGS SHALL BE
RESTRAINED FOR A DISTANCE OF
"LR". FOR REDUCERS, "LR" IS
GIVEN FOR THE LONGER END. AFTER
50% OF THE FITTING AND NO
RESTRAINING IS REQUIRED ON THE
SMALL SIDE OF THE FITTING. GATE
VALVES SHALL BE MECHANICALLY
RESTRAINED AND INSTALLED WITH
CONCRETE BLOCKING PER AIA STD
DQ 2333 IN ADDITION TO THE
MECHANICALLY RESTRAINED
LENGTHS. ALL CAPS SHALL BE
INSTALLED WITH CONCRETE
BLOCKING PER AIA STD DQ 2320.
RESTRAIN ALL JOINTS ON FIRE
HYDRANTS.

- NOTES:
1. RESTRAINED JOINTS, SUCH AS MEGA-LUG EQUIVALENT BRANDS ACCEPTABLE TO THE ENGINEER, SHALL BE USED ON ALL TEES, BENDS, CROSSES & CAPS IN LIEU OF CONCRETE THRUST BLOCKING. RESTRAINED JOINTS SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND NO ADDITIONAL COMPENSATION, MEASUREMENT, OR PAYMENT WILL BE MADE THEREFORE.
 2. LR SHALL BE THE LENGTH OF WATER MAIN THAT REQUIRED JOINTS ON EACH SIDE OF THE FITTINGS.
 3. ALL FIRE HYDRANTS & FITTINGS ETC. SHALL BE BUILT IN ACCORDANCE WITH/ COA STD DWG'S 2301 THRU 2380 INCLUSIVE.

DATE: 11/95	<i>community sciences corporation</i>
SCALE: 1"=50'	
JOB NO.: 33300	

TITLE: QUINTESSENCE - UNIT 3
UTILITY COMPOSITE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. Lindley</i>	2-6-96	WATER	<i>R.W. Kane</i>	1-3-96
TRANSPORTATION	<i>N/A KRC</i>	1-3-96	WASTE WATER	<i>R.W. Kane</i>	1-3-96
HYDROLOGY	<i>N/A SMC</i>	1-8-96			
PROJECT NO. 5206.91		MAP NO. D-21	SHEET 8 OF 10		

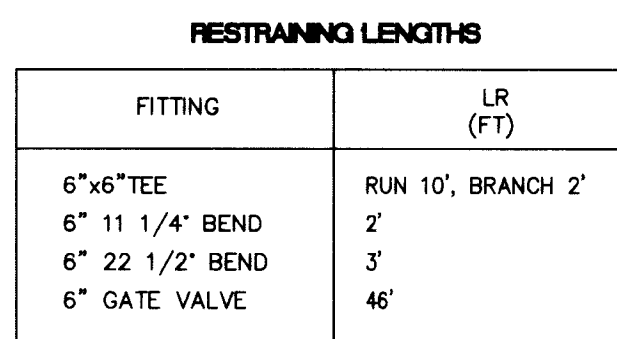
I, the undersigned engineer, a duly qualified Registered Professional Engineer under the laws of the State of New Mexico, do hereby certify that the Record Drawing information shown on these drawings was obtained from the design, construction and post-construction information obtained by me or under my direct supervision, that the Record Drawing information shown on these drawings was added by me or under my direct supervision, and that this Record Drawing information is true and correct to the best of my knowledge and belief. Responsibility for the design concepts, design engineering and calculations, or intent of the Record Drawings resides with others.

Elery A. Biathrow, Jr. 01-10-97
Elery A. Biathrow, Jr., P.E. New Mexico Civil Registration No. 12070

[illegible][illegible]

ENGINEER'S SEAL

[illegible]



LR = LENGTH TO BE RESTRAINED
EACH SIDE OF THE FITTING. FOR
TEES, ALL THREE LEGS SHALL BE
RESTRAINED FOR A DISTANCE OF
"LR". FOR REDUCERS, "LR" IS
THE GROW FOR THE SMALLER DIAMETER
SIZE OF THE FITTING AND NO
RESTRAINING IS REQUIRED ON THE
SMALL SIDE OF THE FITTING. GATE
VALVES SHALL BE MECHANICALLY
RESTRAINED AND INSTALLED WITH
CONCRETE BLOCK PER COA STD
DWG 2333 IN ADDITION TO THE
MECHANICALLY RESTRAINED
LENGTHS. ALL CAPS SHALL BE
INSTALLED WITH CONCRETE
BLOCKING PER COA STD DWG 2320.
RESTRAIN ALL JOINTS ON FIRE
HYDRANTS.

- NOTES:
1. RESTRAINED JOINTS, SUCH AS MEGA-LUG EQUIVALENT BRANDS ACCEPTABLE TO THE ENGINEER, SHALL BE USED ON ALL TEES, BENDS, CROSSES & CAPS IN LIEU OF CONCRETE THRUSET BLOCKING. RESTRAINED JOINTS SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND NO ADDITIONAL COMPENSATION, MEASUREMENT, OR PAYMENT WILL BE MADE THEREFORE.
 2. LR SHALL BE THE LENGTH OF WATER MAIN THAT REQUIRED JOINTS ON EACH SIDE OF THE FITTINGS.
 3. ALL FIRE HYDRANTS & FITTINGS ETC. SHALL BE BUILT IN ACCORDANCE WITH/ COA STD DWC'S 2301 THRU 2380 INCLUSIVE.

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

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

community
sciences
corporation

LAND PLANNING ENGINEERING SURVEYING
P.O. Box 1328 Corrales, N.M. 87048

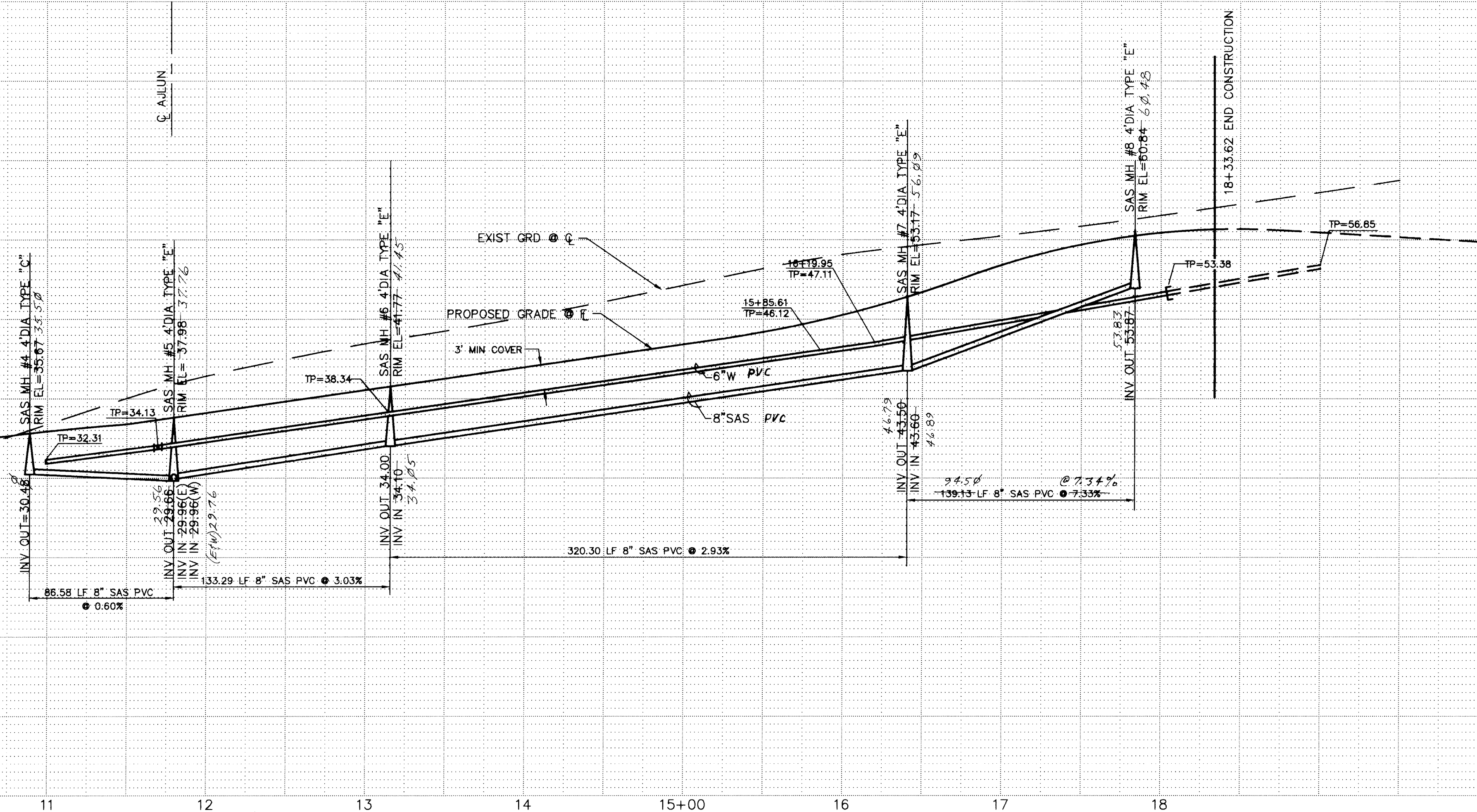
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: QUINTESSENCE - UNIT 3
UTILITY PLAN & PROFILE
KARAK ROAD N.E.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER	R.W. Kame	1-3-96
TRANSPORTATION	N/A KB	1-3-96	WASTE WATER	R.W. Kame	1-3-96
HYDROLOGY	N/A Sam	1-8-96			

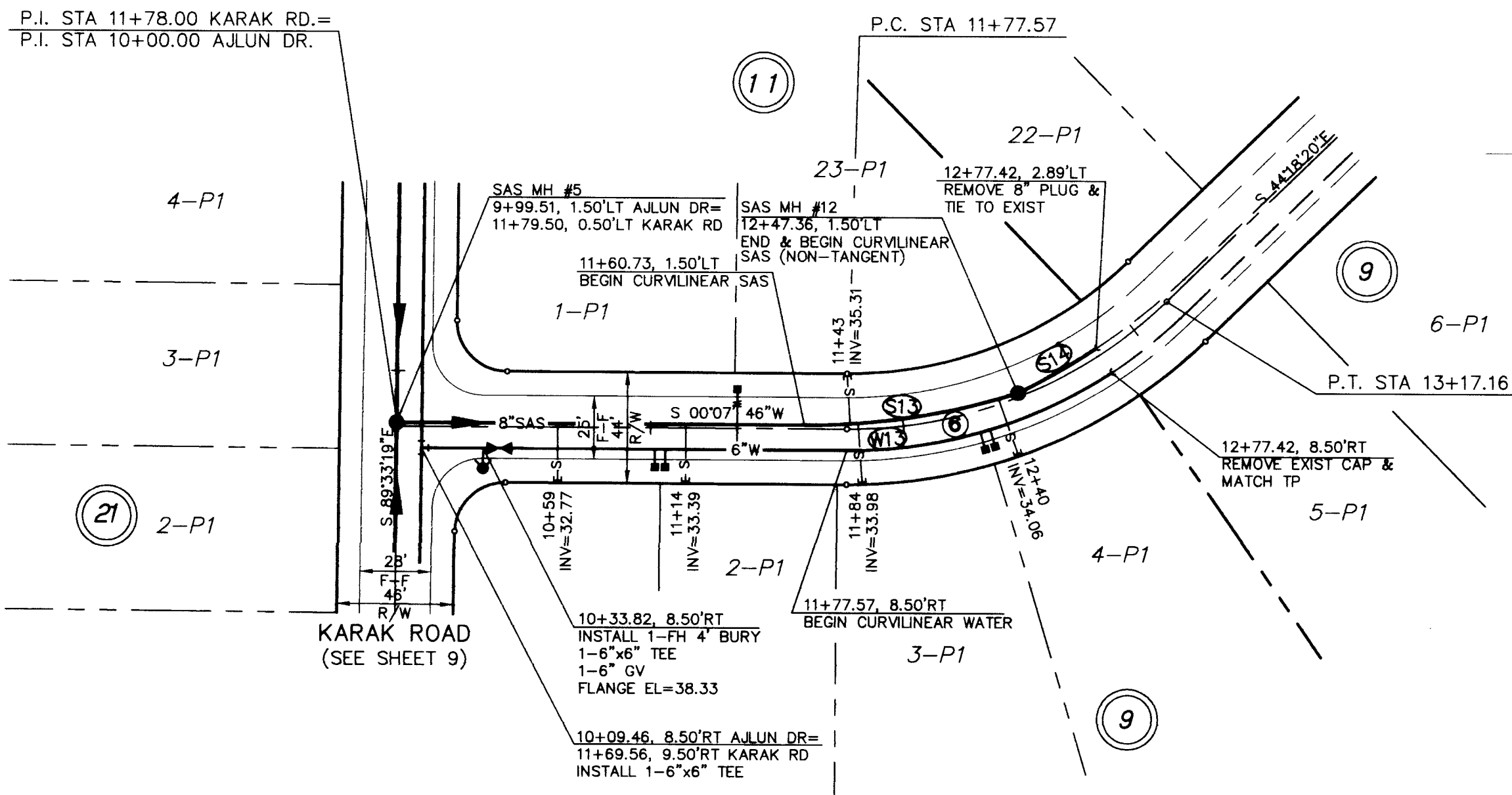
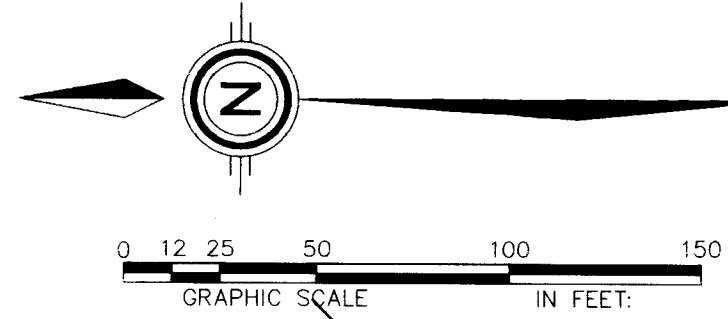
PROJECT NO.	5206.92	MAP NO.	D-21	SHEET	9	OF	10
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SCANNED BY
BY LASON



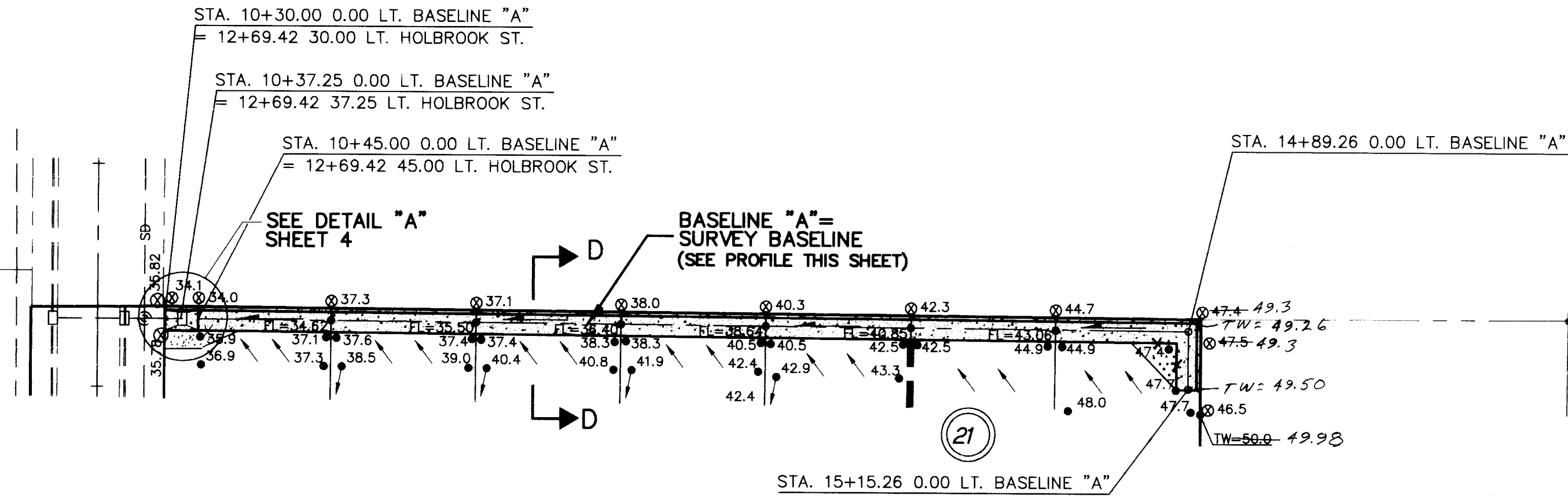
13) S&S CURVE DATA	14) WATER CURVE DATA
R = 275.00'	R = 188.50'
L = 85.71'	L = 105.03'
Δ = 17°51'29"	Δ = 31°55'25"
CH = 85.37'	CH = 103.67'
CB = N08°47'58"W	CB = N15°49'57"W
Δ = 4' 10"/JOINT	Δ = 6' 05"/JOINT

15) S&S CURVE DATA
R = 275.00'
L = 28.53'
Δ = 06°05'07"
CH = 29.51'
CB = N29°31'17"W
Δ = 4' 10"/JOINT

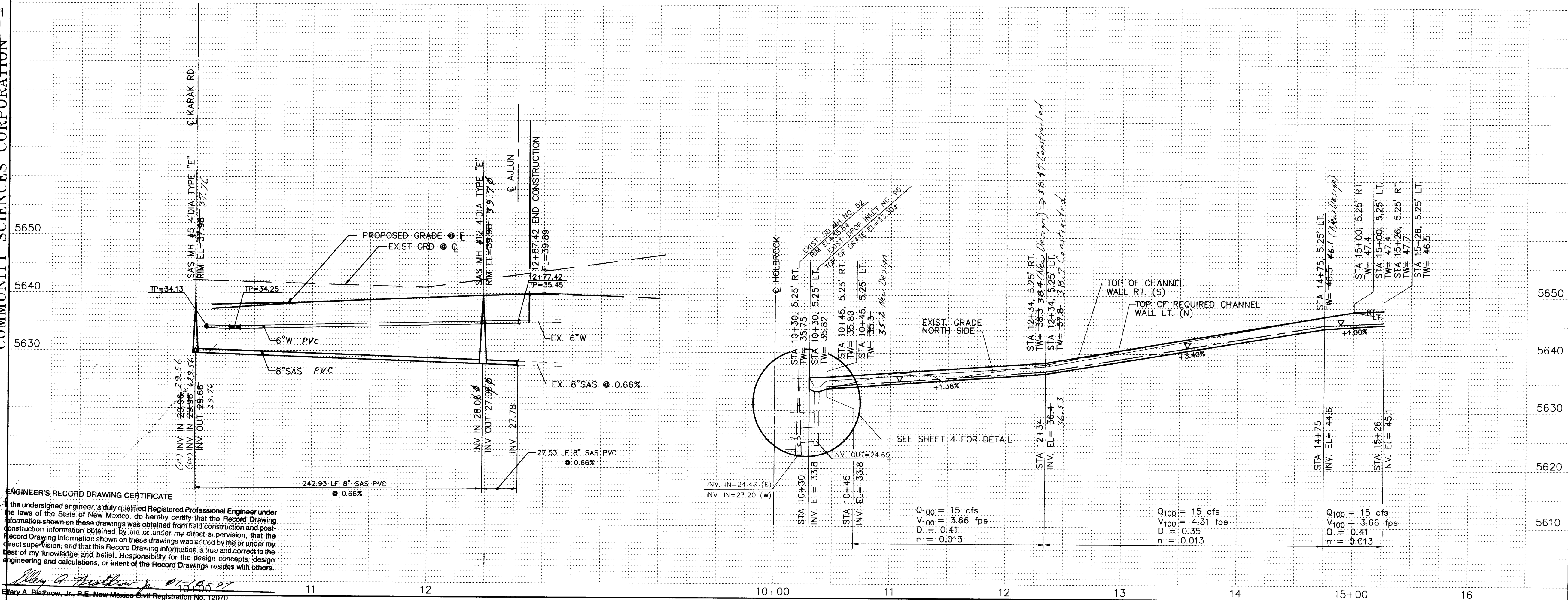


6) C CURVE DATA
R = 180.00'
L = 139.60'
Δ = 44°26'06"
CH = 136.12'
CB = S22°05'17"E

AJLUN DRIVE NE



BASELINE "A" (CHANNEL PROFILE)



ENGINEER'S RECORD DRAWING CERTIFICATE
I, the undersigned engineer, a duly qualified Registered Professional Engineer under the laws of the State of New Mexico, do hereby certify that the Record Drawing information shown on these drawings was obtained from field construction and post-construction information obtained by me or under my direct supervision, that the Record Drawing information shown on these drawings was verified by me or under my direct supervision, and that this Record Drawing information is true and correct to the best of my knowledge and belief. Responsibility for the design concepts, design engineering and calculations, or intent of the Record Drawings resides with others.

Blair A. Blathrow, Jr., P.E.
Blair A. Blathrow, Jr., P.E. - New Mexico Civil Registration No. 12070

UTILITY LEGEND		
DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE	8" SAS	8" SAS
ENCASEMENT		
SANITARY SEWER MANHOLE		
SAS SERVICE CONNECTION	S	S
STORM DRAIN LINE	SD-30"	SD-30"
STORM DRAIN MANHOLE		
STORM DRAIN INLETS		
WATER LINE	W-6"	W-6"
GATE VALVE		
BUTTERFLY VALVE		
FIRE HYDRANTS		
REDUCERS		
WATER SERVICE/ METER		
CROSSES		
BENDS		
CAPS & PLUGS		
GAS LINES	N/A	N/A
OVERHEAD ELECTRICAL LINE	N/A	N/A
UNDERGROUND ELECTRICAL	N/A	N/A
OVERHEAD TELEPHONE	N/A	N/A
UNDERGROUND TELEPHONE	N/A	N/A
CABLE TELEVISION	N/A	N/A
POWER OR TELEPHONE POLE	N/A	N/A

RESTRAINING LENGTHS

FITTING	LR (FT)
6"x6" TEE	RUN 10', BRANCH 2'
6" 11 1/4" BEND	2'
6" 22 1/2" BEND	3'
6" GATE VALVE	46'

LR = LENGTH TO BE RESTRAINED EACH SIDE OF THE FITTING. FOR TEES, ALL THREE LEGS SHALL BE RESTRAINED FOR A DISTANCE OF "LR". FOR REDUCERS, "LR" IS GIVEN FOR THE LARGER DIAMETER SIZE OF THE FITTING AND NO RESTRAINING IS REQUIRED ON THE SMALL SIDE OF THE FITTING. GATE VALVES SHALL BE MECHANICALLY RESTRAINED AND INSTALLED WITH CONCRETE BLOCKING PER COA STD DWG 2333 IN ADDITION TO THE MECHANICALLY RESTRAINED LENGTHS. ALL CAPS SHALL BE INSTALLED WITH CONCRETE BLOCKING PER COA STD DWG 2320. RESTRAIN ALL JOINTS ON FIRE HYDRANTS.

- NOTES:
1. RESTRAINED JOINTS, SUCH AS MEGA-LUG EQUIVALENT BRANDS ACCEPTABLE TO THE ENGINEER, SHALL BE USED ON ALL TEES, BENDS, CROSSES & CAPS IN LIEU OF CONCRETE THRUST BLOCKING. RESTRAINED JOINTS SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND NO ADDITIONAL COMPENSATION, MEASUREMENT, OR PAYMENT WILL BE MADE THEREFOR.
 2. LR SHALL BE THE LENGTH OF WATER MAIN THAT REQUIRED JOINTS ON EACH SIDE OF THE FITTINGS.
 3. ALL FIRE HYDRANTS & FITTINGS ETC. SHALL BE BUILT IN ACCORDANCE WITH COA STD DWG'S 2301 THRU 2380 INCLUSIVE.

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

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

community sciences corporation
LAND PLANNING P.O. Box 1328
ENGINEERING CORRALES, N.M. 87046
SURVEYING

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: QUINTESSENCE - UNIT 3 UTILITY PLAN & PROFILE AJLUN DRIVE N.E.			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	<i>R.W. Kane</i>	2-6-96	WATER
TRANSPORTATION	<i>R.W. Kane</i>	1-3-96	WASTE WATER
HYDROLOGY	<i>McLagane</i>	1-8-96	
PROJECT NO.	5206.92	MAP NO.	D-21
		SHEET	10 OF 10