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P r e s e n t	retrieval system. In some instances, items are found on the list but are not present in the scanned electronic development file because they are already scanned elsewhere on the system. These scanned documents are denoted with (**) and will be found on the ISYS query system in their designated categories. Documents specific to certain files, not found in the standard checklist materials, are listed at the bottom of the page.						
X	X	Table of Contents					
X	X	Review Sheet Summary					
X		Application form					
		Review Sheets					
		Receipts for fees paid for anything					
		*Submittal checklist					
X	X						
		Reduced copy of final plans or drawings					
X		Reduction of assessor's map.					
		Evidence of title, deeds, easements					
X	X	Arthring and to deflace to property of their					
X		Public notice cards					
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X		Legal description					
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		Reduction of any maps – final copy					
		*Final reports for drainage and soils (geotechnical reports)					
		Other bound or non-bound reports					
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X	X	*Petitioner's response to comments					
		*Staff Reports					
		*Planning Commission staff report and exhibits			4144		
		*City Council staff report and exhibits					
		*Summary sheet of final conditions	DI	DT	YON.		
		DOCUMENT DESC	KI	PI	ION:		
X		Declaration of Covenants, Conditions and Restrictions	X	X	Action Sheet		
X			- 1	- 1	Development Improvement Agreement		
		-					
	X				Planting Plan		
X		Subdivision Summary Form	X				
X	X	Drainage Report - 5/3/91	X				
X	X				Utility Composite		
X			\rightarrow		Cider Mill Road Plan and Profile		
X					Standard Sanitary Sewer Details		
X		1	X	X	Waterline Standard Details		
X	}	Development Project Meeting - 6/4/91	Y	x	Roadway Standard Details		
X	X	Public Notice Posting Neighborhood Meeting for Colony Park	Λ	^	Roadway Standard Details		
X	-12	Legal	\dashv	-			
X	X	Planning Commission Meeting Agenda - 7/9/91 - **		\dashv			
		1 mining Commission recently Agenda - 117171 -	+	\dashv			
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Receipt	#	
Date Rec	P CONTRACTOR STATE OF	
Received	By	(

DEVELOPMENT APPLICATION

We, the undersigned, Being the owners of property situated in Mesa County, State of Colorado, as described on the attached legal description form do hereby petition this:

do h	eroby petition	this:		
Type of Petition	Acres Phase	Common Location	Zone	Type of Usage
Subdivision Plat/Plan	Sq:F1	5 & of Patinso	J 12-10	
Rezone			Frm[> To	
Planned Development	ODP Prelim Final			
Conditional Use				
Hwy-Oriented Development			Н.О.	
Text Amendment				
Special Use				
Vacation				◯ Right-of-way ◯ Easement
PROPERTY OWNER	DEVE	LOPER		REPRESENTATIVE O
Mr. George D. Young		ilding Company		ruce Milyard
601 Horizon Place #141	Name 599-25 1	Road	57	Name 76 Rio Linda
Address	Addr	ess		Address
Grand Junction, CO 81506	Grand J	unction, CO 81502	G	cand Junction, CO 81503
City/State	City	/State		City/State
Business Phone #	(303) 2 Busi	42-1423 ness Phone #	(303) 242-1423 Business Phone #
Note: Legal property owne	r is owner of r	ecord on date of sub	omittal.	
WITH RESPECT COMPLETE TO THE STATUS SELVES, OR PETITIONER	T TO THE PREPARATION OF THE BEST OF OUR KNOWLE OF THE APPLICATION AND OUR REPRESENTATIVE(6) N 15 NOT REPRESENTED, THE TO COVER RESCRIEDULING	FAMILIARIZED OURSELVES WITH T THIS SUPMITTAL, THAT THE FORE DGE, AND THAT WE ASSUME THE RE THE REVIEW SHEET COMMENTS. WE USI BE PRESENT AT ALL HEARINGS ITEM WILL BE PROPFED FROM THE EXPENSES BEFORE IT CAN AGAIN	GOING INFORMATION SPONSIBILITY TO MO RECOGNIZE THAT WI . IN THE EVENT TO AGENDA, AND AN AN ARE PLACED ON THE A	IS TRUE 6 MITOR E OUR- MAT THE POLITIONAL RICHOA
Signature of person comple	eving application	on		Date
M Morge D. We	my /	TATION AS IT RELATES TO TH		

"OPITON TO PURCHASE REAL PROPERTY" BETWEEN GEORGE D. YOUNG AND ALCO BUILDING COMPANY
Signature of property owner(s) attach additional sheets if necessary

School District 51 Pomona Elementary School 2115 Grand Ave. Grand Junction, CO 81501 Joe Frank & Kathleen Tomkins 605 Meander Drive Grand Junction, CO 81505

Robert I Baughman D N Barbour & P K Baughman 639 1/2 Main Street Grand Junction, CO 81501 Location: 2581 F Road

Clifford & Elizabeth Harwin 2582 F Road Grand Junction, CO 81505

Eugene M Sanders 2580 F Road Grand Junction, CO 81505

William F. Novinger 2479 G Road Grand Junction, CO 81505

James A & Debra A Sanders c/o Daphne Branson 2580 1/2 F Road Grand Junction, CO 81505 Wilma Alyne & Clifford LeRoy Miller 2552 F Road Grand Junction, CO 81505

Jerry C & Kathryn D Morgan, Jr. 615 Lodgepole Grand Junction, CO 81504

Seventh Day Adventist Assoc. 2520 So Downing St. Denver, CO 80210 (Location: 2554 F Road)

Daphne N Branson 2580 1/2 F Road Grand Junction, CO 81505 Glenn McClelland 838 26 1/2 Road Grand Junction, CO 81506

Joe G Redding Tony M Redding 2566 F Road Grand Junction, CO 81505 Kenneth C & Melanie K Haining 2554 1/2 F Road Grand Junction, CO 81505

Wesley H Dixon 2562 F Road Grand Junction, CO 81505 Richard F & Jacquelyn G Dewey 2236 Tiffany Ct. Grand Junction, CO 81503

Robert L Keech Hazen & Norma B Hazen 5672 S. Willowbrook Dr. Morrison, CO 80465

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U S Postal Service 602 E. Forsight Circle Grand Junction, CO 81505

COLONY PARK

PROJECT NARRATIVE

WHAT IS THE PROPOSAL

This proposal for Colony Park is a replat of Colony Park, Filing 1. A final plat and plan for Colony Park, Filing 1 was approved by the City of Grand Junction in 1981. Since the approval, there have not been any site improvements made to the property by the original developer or subsequent owners. This proposal is in a Planned Residential 10 zone and is a 3.43 acre development. Once fully developed, 22 living units will be constructed for an overall density of 6.4 units per acre. This results in a 36% reduction between zoned density and developed density. Phase 1 is for the development of 1.76 acres with 8 living units, or a density of 4.5 units per acre. Even though Phase I is the platting of 8 living units, the infrastructure will be constructed for the entire development, or 22 living units.

The proposed Colony Park subdivision is a planned residential development offering single level style attached homes. The homes are arranged in clusters with each unit ranging in size from 1225 to 1575 sq. ft. of living space with an attached two car garage. Many of the garages are designed as side entry in an attempt to eliminate the garage door from the streetscape. The exterior asthetics of the units will be enhanced by relatively spacious open areas to be maintained and preserved by a Home Owner's Association with strong Covenants.

The target markets for this development are the retired person, the empty nester, or the small family desiring a quality home with landscaping and exteriors being maintained by a homeowner's association.

LOCATION

Colony Park subdivision is located on the south side of F Road east of 25-1/2 adjacent to Pomona School.

AREA IMPACTED BY THE PROPOSAL

West of the proposed development lies the Pomona School property which carries a PZ zoning. The area south and east of the development is presently being utilized as agricultural ground, however it is zoned PR-10. North of the proposed development lies "F" Road with the strip along the north side being primarily residential with SF-4 and SF-8 zoning. Development does conform with existing F. Road Corridor guidelines.

The most direct effect of the proposed development will be the additional traffic generated and its impact on "F" Road. In accordance with the

Do NOT Remove From Office Institute of Transportation Engineers Trip Generation Manual, Residential Condominums Classifications, 5.2 average daily trips per unit will generate approximately 229 movements per day from Colony Park subdivision.

The schools that could potentially be impacted from the development would be Pomona Elementary, West Middle School, and Grand Junction High School.

The development will be serviced by Ute Water, City sewer and Grand Valley Irrigation for landscape watering needs.

EXTERNAL RELATIONSHIPS

Visual Screening

The visual relationship of Colony Park to the external properties consist of the view from "F" Road, the view from Pomona School on the west, and the view from the agricultural ground on the south and east. A combination of fencing and landscaping will mitigate these impacts.

The view of Colony Park from F Road is to be minimized by the use of screen fencing and landscaping. Approximately 25 feet of right of way exists between the rear edge of the sidewalk and the property line paralleling F Road. The developer, in conjunction with this application, will be applying for a revokable fence permit to allow a screen fence in the right of way along F Road. The fence will be placed approximately 10' behind the rear edge of the sidewalk in the right of way. All of the right of way area will be landscaped by the developer and maintained by the Home Owner's Association. The proposed fence along F Road will be a combination of cedar and masonry. (see detail) The fence along the east and south property line will be a rail fence designed adeqately to barricade livestock from entering the development from the adjacent agricultural property. An existing fence and proposed trees on the west property line will separate the development from Pomona School.

Vehicular Circulation and Parking

The proposed Cider Mill Road will provide internal vehicular circulation to the development. The proposed street section is the city local roadway section. This provides width for on-street parking, however, resident parking is provided for each unit in two-car garages and driveways which allow 2 additional spaces. Recreational vehicle parking is restricted by the covenants.

Pedestrian Circulation

Pedestrian circulation within the proposed development is accomodated by the 4' attached walk on both sides of Cider Mill Road and culdesac. The proposed walk connects directly into the existing walk on the south side of F Road. A required U.S. Postal Service Centralized Mail Delivery Box will be installed as depicted on site plan to encourage pedestrian use.

LANDSCAPING

The proposed landscaping consists of screening and lawn areas along "F" Road, internal tree plantings, between Unit buffer plantings, lawn areas, and entry courtyard plantings. All landscape will be irrigated with a pumped automatic sprinkler system. The system is to be owned, operated and maintained by the Homeowner's Association. The irrigation source will be from the wastewater system paralleling the west property line augmented with irrigation water from Independent Ranchman's ditch on the north if needed.

GRADING AND DRAINAGE (drainage report)

The grading and drainage proposed for this site is described in detail in the attached appendix titled "Drainage Report for Colony Park" prepared by Banner and Associates.

UTILITIES

The sewer service is to connect to the existing 18" horizon intercept line on the west property line. The projected flows are based on 150 gallons/day for each bedroom. In determining the flow, the bedroom count assumes half the units are 2 bedroom and half would be 3 bedroom. This count produces a flow of 8250 gallons/day once the project is fully developed.

Proposed water service will tie into the existing 8" Ute water line located in the northeast corner of subject property.

Public Service Company will supply the project with electric and gas service while U.S. West will supply telephone service. The above mentioned services will be placed in the utility easement provided on the street side of the respective lots.

The Home Owner's Association will provide the services needed to maintain the open space and the exterior maintenance of all the living units. The Home Owner's Association is founded on a solid set of covenants designed to maintain aesthetic harmony and consistency throughout the development. A draft of the covenants is attached as Appendix D.

SPECIAL CONSIDERATIONS

Vacation Request

As noted on the application, the developer is requesting a vacation of all rights of way and easements of record associated with Colony Park, Filing 1. The vacation request is the result of this property no longer being developed in conjunction with property to the south and east. Colony Park, Filing 1, as

presently recorded, has road alignments and easements that are no longer functional now that property ownership has been bifercated. Therefore, the request before you is to vacate the existing right of way and easements which will be replaced by right of way and easements as depicted on this submittal. Recording the vacation of the present right of way and easements would occur simultaneously with recording of the final replatt. Even though future expansion of this development is not anticipated at this time, accommodations to continue the roadway to the south have been made by sizing the Cider Mill Road to a "local roadway section" and granting a right of way from the end of the culdesac to the south property line.

Revocable Fence Permit

As was mentioned earlier in the narrative, the developer in conjunction with this application, is requesting a revocable fence permit allowing the developer to construct screen fencing in the right of way along the south side of F Road. Approximately 25 feet of right of way exists between property line and the back edge of the sidewalk along F Road. The developer proposes to construct a screen fence on the right of way leaving approximately 10 feet between the fence and sidewalk to be landscaped by the developer and maintained by the Home Owner's Association. The right of way south of the fence would be landscaped to be harmonious with the other open spaces and would also be maintained by the Home Owner's Association.

Drainage Easement

The developer and property owner have been approached by the Grand Junction Drainage District and the City of Grand Junction to assist in resolving a problem that exists relative to a tile drain line that exists on the west property line. The problem is a surcharge that occurs during certain periods when the Pomona School irrigation system is discharging its waste water. Even though the final solution to the problem has not been decided, the developer has agreed to accommodate the resolution by granting an easement along the west property line providing a satisfactory and mutually beneficial resolution is adopted. The exact location and width of the easement has yet to be discussed.

Property Line Adjustments

The property owner to the South and East of subject property is Mr. Robert Baughman and family. In discussing the replat with Mr. Baughman, all parties concerned recognized the benefit in eliminating the irregular nature of the property boundary lines contained in Colony Park, Filing 1. Therefore, it has been agreed that property transfers will occur between the Mr. Baughman, et. al., and the Young/Alco group to square the property boundaries as depicted on the proposed Replat. The recording of these transfers will be concurrent with the recording of the final platt.

DEVELOPMENT SCHEDULE

Construction of the project will commence upon approval by the City of Grand Junction. The infrastructure improvements will be constructed first, and followed by construction of four (4) units upon issuance of a building permit. Once the first four living units are completed and sold, commencement of additional living units will be dictated by market demand.

COLONY PARK SUBDIVISION

Prepared for:

Bruce Milyard ALCO BUILDING COMPANY 599 25 Road Grand Junction, CO 81505 Ph. (303)242-1423

BANNER

BANNER ASSOCIATES, INC. — CONSULTING ENGINEERS 2777 CROSSROADS BOULEVARD — GRAND JUNCTION, COLORADO 81506 (303) 243-2242

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ENGINEER'S CERTIFICATION

I, JAMES E. LANGFORD, P.E. & L.S., certify that this Plan and Report was prepared by me or under my direct supervision for the Owner's hereof.

Reg. No. 1484

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INTRODUCTION

SITE CONDITIONS

DESIGN CRITERIA AND METHODOLOGY

DRAINAGE ANALYSIS

PROPOSED DETENTION FACILITY

REFERENCES

TABLES

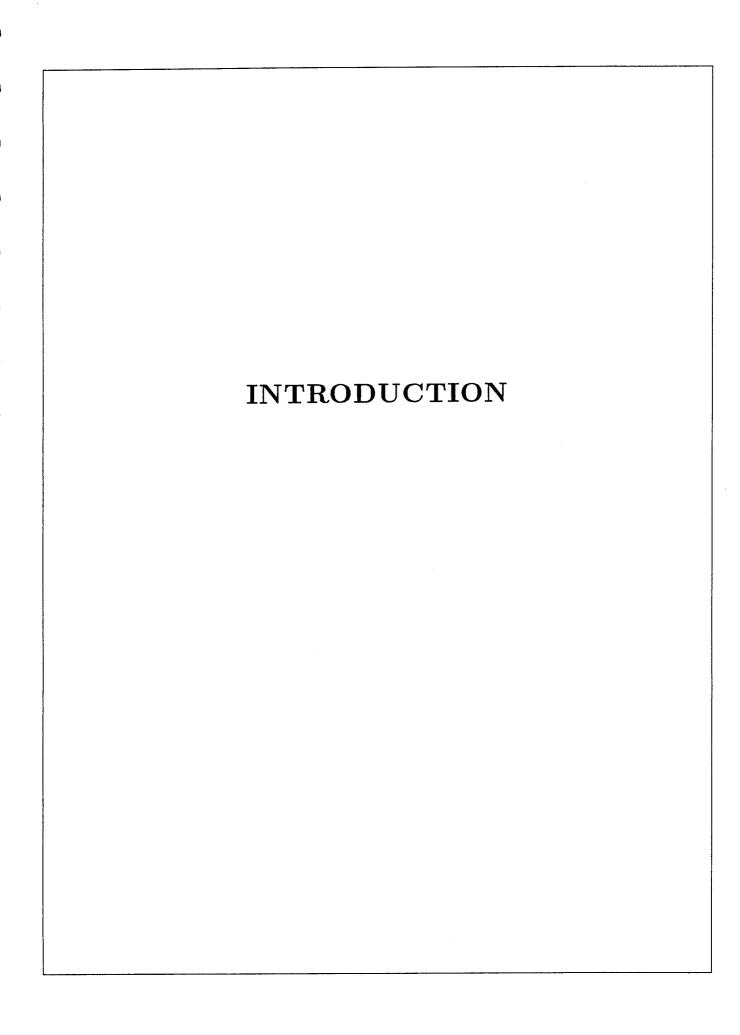
Table 1 - Time of Concentration

Table 2 - Composite Runoff Coefficients

Table 3 - Runoff Volume

Table 4 - Volumes for MRM Storage Hydrographs

CALCULATIONS



INTRODUCTION

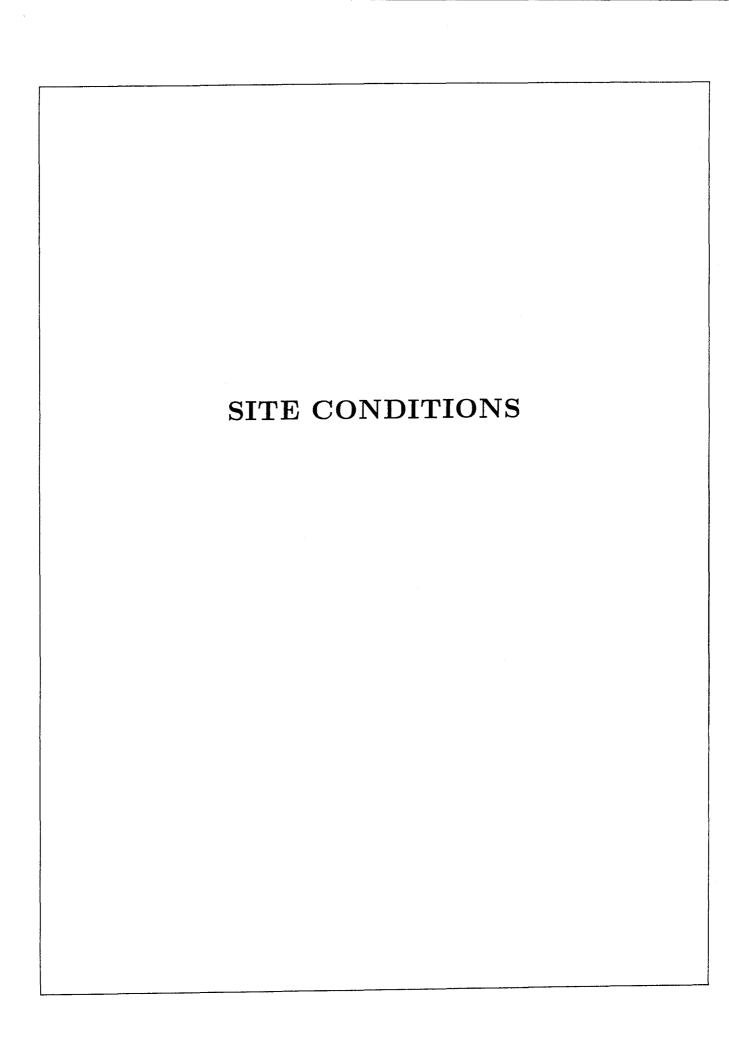
COLONY PARK SUBDIVISION is located approximately 1000 feet east of the intersection of Patterson/"F" and 25 Roads, south of Patterson Road and immediately adjacent to the Pamona Elementary School. The property is bounded on the north by Patterson Road, on the west by Pamona Elementary School and on the south and east by vacant land. Runoff from farm land located easterly of the proposed development is conveyed north to the Ranchman's Ditch (subsurface), located in the Patterson/"F" Road right-of-way or southerly to an existing drainage ditch location approximately 435 feet south of the south right-of-way line of Patterson/"F" road. Storm water originating from properties located to the north and west will have no impact on this project, as the runoff will be intercepted by Patterson/"F" Road and 25 Road, respectively.

This project has been removed from the 100 Year Floodplain by placing a portion of the Ranchman's Ditch underground. This information was received through conversations with the Grand Junction City Engineer, and Flood Plain Administrator.

Since the City of Grand Junction does not have specific report preparation criteria, this Report has been prepared using Mesa County's "Design Guidelines for Storm Water Management", and Mesa County Land Development Code, Section 4.1.7, which states that drainage facilities shall be designed to "adequately carry and discharge accumulated run-off into drainage channels, storm sewers, or natural watercourses so that storm water does not cause increased damage or increased flooding downstream...". An analysis of the runoff characteristics of the site and estimates of the impact of surface flows generated, has been carried out to determine the size and location of facilities required to handle this runoff.

Presented herein are the results of our analysis, and a description of the improvements we propose for mitigation of the drainage impacts presented by this development.

DRAINAGE REPORT

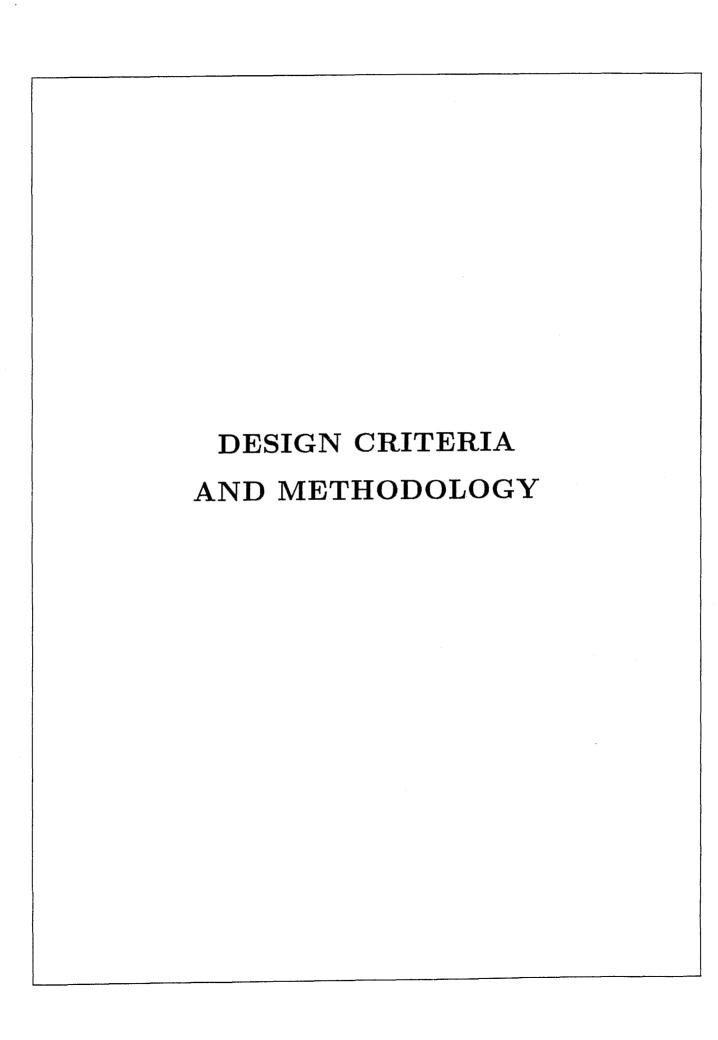


SITE CONDITIONS

The present site conditions consist of relatively flat topography. The land has been used as pasture in past years but has been removed from a formal irrigation system due a change in ownership. Therefore, historic conditions will assume the land to be irrigated.

The site presently drains in a southwesterly direction at an average slope of 0.5%. The present ground cover consists of sparse grass cover and numerous Cottonwood and Russian Olive trees. Soil conditions, as outlined by a 1981 Soils Report be Lincoln-DeVore Engineering, Geologists, indicate clays and silts dominate the immediate surface strata. The major runoff vehicle is, at present, typically sheet flow to the west, but tends to accumulate south of the property and discharge into the drainage ditch facility.

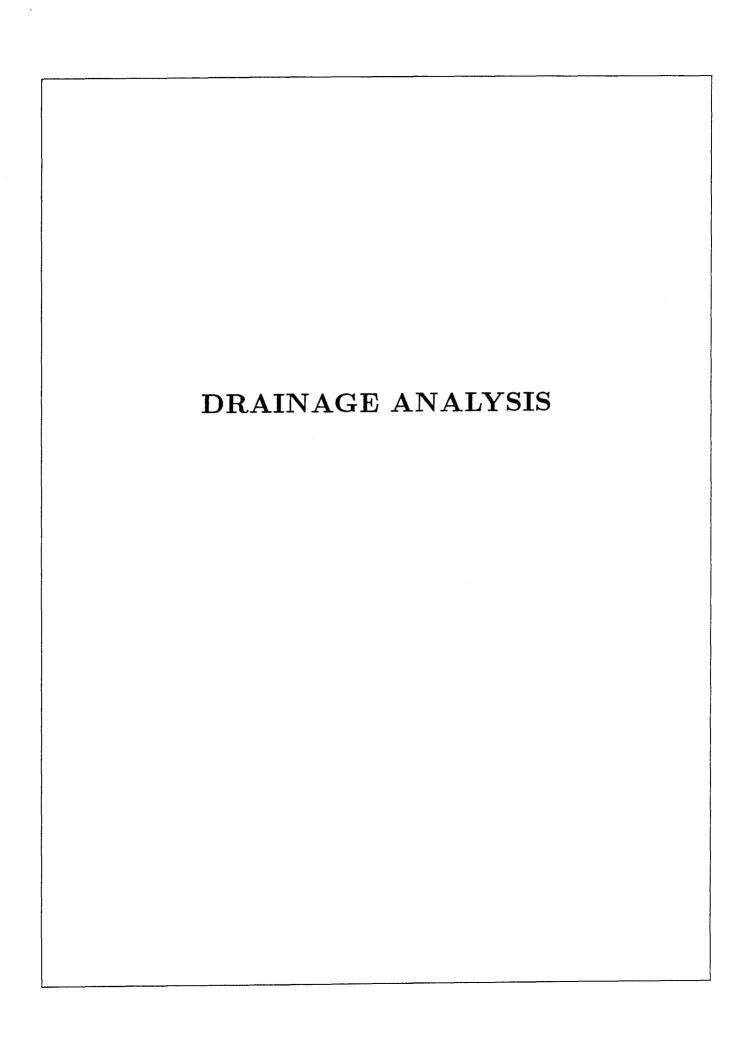
Site development will cover approximately 70% of the property with either concrete, asphalt, or buildings. This will leave 30% for open space covered with grass allocated to utility easements and drainage ways. The open space is located primarily on the perimeter with additional areas located between building pads.



DESIGN CRITERIA AND METHODOLOGY

Since the site is much less than 100 acres, the Rational Method, as outlined in Chapter 2 of the "Design Guidelines for Storm Water Management in Mesa County, Colorado", was employed to determine the magnitude of "pre" and "post" development runoff discharges. Rainfall intensities were derived from the "Intensity Duration Curves", furnished by the Grand Junction Engineering Department, developed specifically for the Grand Junction Area. The Soils Report from Lincoln-DeVore dated March, 1981, was consulted to identify surface soil attributes, ground water conditions and to aid in the initial selection of runoff coefficients to best represent the existing site conditions. Flows were thus calculated and tabulated in Table 3, Runoff Volume.

The detention pond volume requirement was calculated using the Modified Rational Method as described in the publication entitled "Urban Stormwater Management, Special Report No. 49", published by the American Public Works Association. The release rate from this structure was established by subtracting the site historic discharge rate, from the developed condition flows.



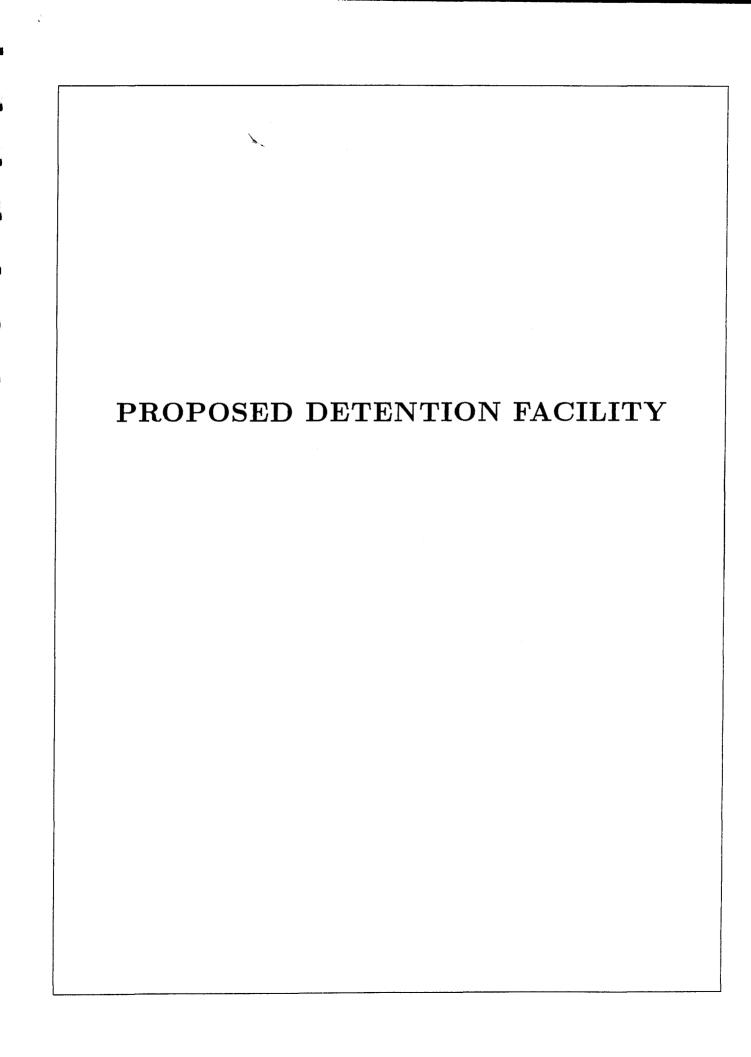
DRAINAGE ANALYSIS

The time of concentration (Tc) would normally be set equal to the summation of the overland flow time, flow time in curbs and gutters, and the flow time through underground conduits. case, the curb and gutter and pipe flow times were arrived at by dividing the length of the flow path by the velocity as calculated by the "Mannings Equation". Overland flow velocities were determined by use of the graph "Average Velocities for Estimating Travel Time for Overland Flow", USDA, Soil Conservation Service, 1980. This summation of travel times, when greater than 5 minutes, would then be set equal to the time of concentration and used in the "Intensity Duration Curves" graph for the Grand Junction area to arrive at the intensity (I) for use in the Rational Formula. In our case, since all the travel times were less than 5 minutes, none were used, and all times of concentration for developed flow were set to the minimum 5 minutes as required.

All drainage basins were digitized to determine the area of each (in acres) which contributes runoff to various design points as depicted on "Grading and Drainage Plan".

The runoff volumes have been tabulated for ease of review on Table 1, Time of Concentration, Table 2, Composite Runoff Coefficients, and Tables 3A & 3B.

The flows generated from the parcel immediately adjacent on the east will be diverted by means of an earthen ditch built during construction of the subdivision. The flows will outlet through an 18" cmp into the drain ditch located approximately 400 feet south of the COLONY PARK SUBDIVISION.

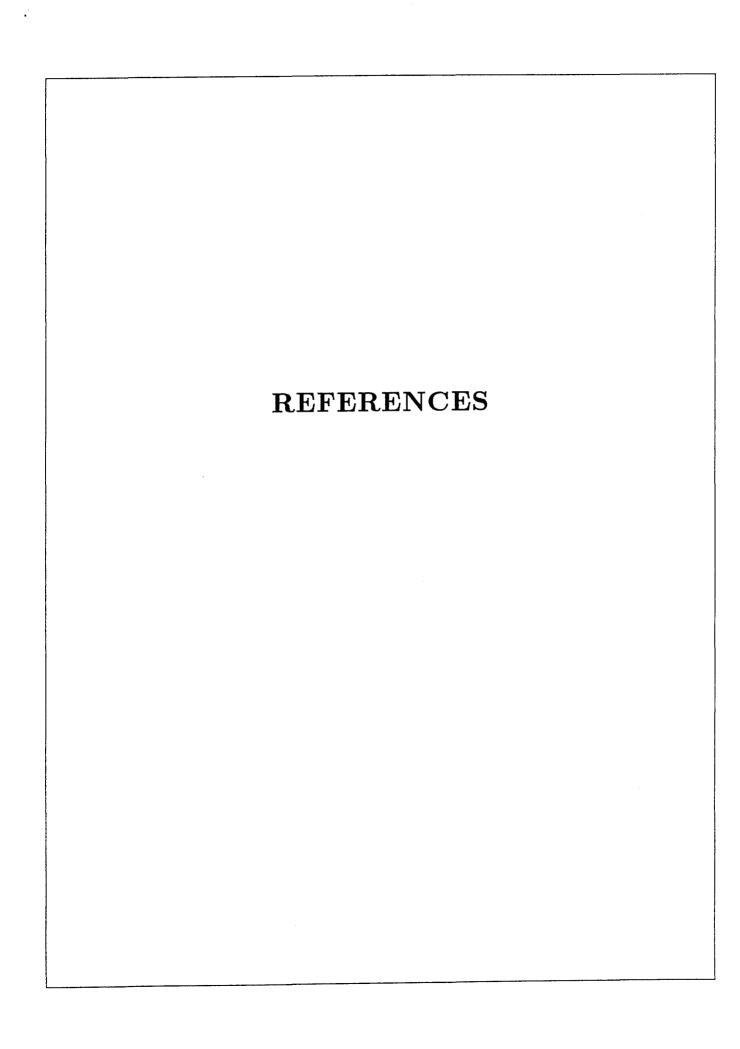


PROPOSED DETENTION FACILITY

The Modified Rational Method was used to determine the volume of the detention facility requirements. Using the curve for the 10-year recurrence interval, rainfall intensities for 5, 10, 20, 30, 40, 50 and 60 min. rainfall averaging times were selected. Discharge rates were calculated for each using the Rational Method. These values were plotted on the graph found attached and the areas between the Max. Allowable Discharge Rate and the individual hydrographs were calculated. According to the instructions for use of this method, the largest such volume calculated or the 10 year event was then used as the minimum storage volume for the detention structure. The contours within each area being proposed for the detention facility were digitized and found to roughly total 8800 cubic feet in volume where only 660 cubic feet are required. The detention volumes are given on the Grading and Drainage Plan.

A detention outlet structure was designed using the orifice equation for high head release flow (see Calculation Sheet attached), by sizing a concrete box inlet at the end of the 18 inch RCP with a slide-in baffle to allow an historic flow of 2.32 cfs. The baffle has a 5.83" diameter hole that will reduce flows to historic runoff values.

The 100 year event has been evaluated using the same criteria as the 10 year event. While the flows are significantly larger, the detention facilities at the lower end of the storm drain network have sufficient capacity.



REFERENCES

"Intensity Duration Curves", City of Grand Junction.

"Design Guidelines for Storm Water Management", Mesa County, Colorado, undated.

"Urban Stormwater Management, Special Report No. 49", American Public Works Association, 1313 East Sixteenth Street, Chicago, IL.

"Handbook of Steel Drainage and Highway Construction Products", American Iron and Steel Institute, Second Edition, 1971.

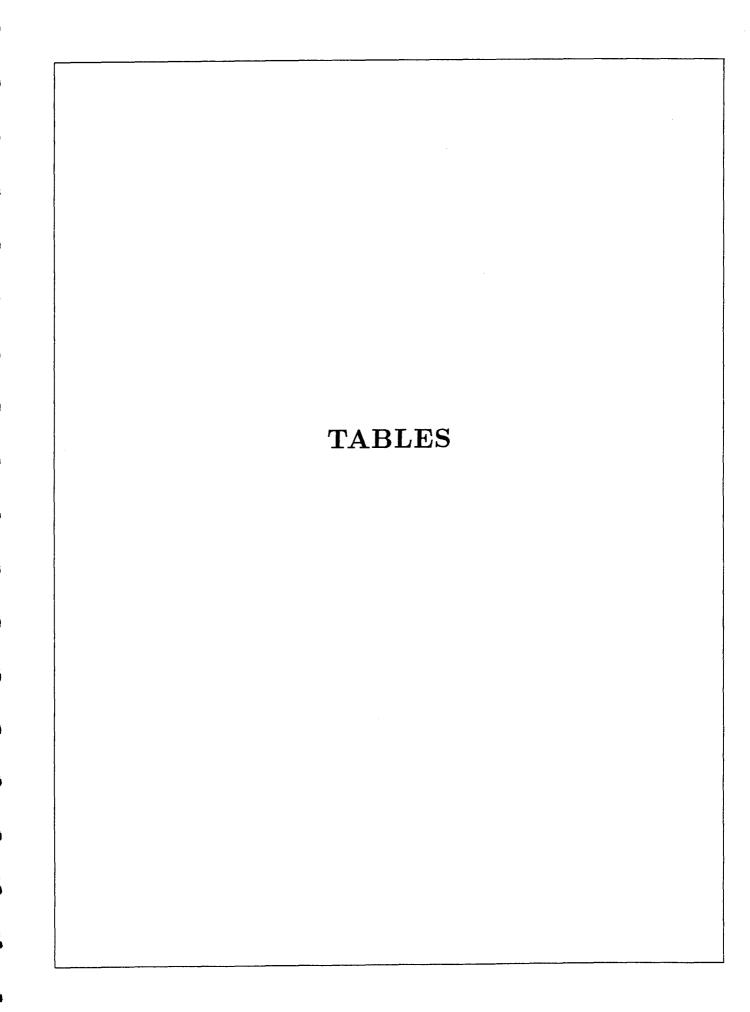


TABLE 1 COLONY PARK SUBDIVISION DRAINAGE STUDY - Q10 AND Q100

TIME OF CONCENTRATION

	Tc		Eď	L	S	٧	Tt
	TIME OF	DESCRIPT.	DIFF. IN	LENGTH	SLOPE	VELOCITY	TRAVEL
BASIN	CONCEN.	OF FLOW	ELEVATION	FT.	%	FT/SEC	TIME
	MIN.					FIG 2-2	SEC.
=========	=======================================	=======================================		========		=======	=======
HISTORIC	21.90	OVERLAND	2.5	460	0.54	0.35	1314.29
	3.98	OVED! AND	1.0/	33	3.15	1.75	18.86
A	3.90	OVERLAND	1.04				
		PAVE/CONCR	1.54	330	0.47	1.5	220.00
В	4.82	OVERLAND	4.92	252	1.95	0.95	265.26
_		PAVE/CONCR	0.08	36	0.22	1.5	24.00
		/ AVE / CONCR	0.00	30	V.LL		24.00
С	2.64	PAVE/CONCR	3.25	317	1.03	2	158.50
_	2 /5		, 45	~~~	4 00		444.00
D	2.45	PAVE/CONCR	4.15	323	1.28	2.2	146.82
E	2,59	OVERLAND	2.2	119	1.85	0.9	132.22
-		PAVE/CONCR	0.5	49	1.02	2.1	23.33
		PAVE/ CONCR	0.5	77	1.02	2.1	23.33
F	1.63	OVERLAND	2.4	90	2.67	1.2	75.00
		PAVE/CONCR	0.5	45	1.11	2	22.50
G	1.23	OVERLAND	1	46	2.17	1.1	41.82
		PAVE/CONCR	0.5	59	0.85	1.85	31.89

TABLE 2
AREA BREAKDOWN, ACRES

0.10 TO 0.30 VALUE USED

UNIMPROVED =

BASIN										COMPOSITE
NO.	TOTAL AREA	ROOF	WT'D AREA	ASPHALT	WT'D AREA	CONCRETE	WT'D AREA	GRASS	WT'D AREA	"C" VALUE
=========	.==========		=========	:=== = ===		=======	========	======	=========	=======
Α	0.761	0.082	0.0779	0.26	0.182	0.165	0.1155	0.254	0.0381	0.54
В	0.82	0.248	0.2356	0	0	0	0	0.572	0.0858	0.39
С	0.778	0.185	0.17575	0.156	0.1092	0.353	0.2471	0.084	0.0126	0.70
D	0.863	0.242	0.2299	0.156	0.1092	0.201	0.1407	0.264	0.0396	0.60
Ε	0.329	0.113	0.10735	0	0	0	0	0.216	0.0324	0.42
F	0.257	0.083	0.07885	0	0	0	0	0.174	0.0261	0.41
G	0.142	0.057	0.05415	0	0	0	0	0.085	0.01275	0.47
PRE-DEVEL.	3.69									
RUNOFF COE	FICIENTS RECO	OMMENDED BY ME	SA COUNTY							
ROOF =		0.75 TO 0.95	VALUE USED	0.95						
ASPHALT =		0.70 TO 0.95	VALUE USED	0.7						
CONCRETE =		0.70 TO 0.95	VALUE USED	0.7						
GRASS =	FLAT TO 2% 2% TO 7% > 7%	0.13 TO 0.17 0.18 TO 0.22 0.25 TO 0.35	?	0.15						

0.3

TABLE 3A RUNOFF VOLUME Q10

BASIN	C COMPOSITE VALUES	Cf	I* RAINFALL INTENSITY IN/HR	A BASIN AREA, ACRES	•

HISTORIC					
1	0.3	1	2.1	3.69	2.32
2	0.3	1	2.06	4.29	2.65
DEVELOPED					
Α	0.54	1	3.25	0.76	1.34
В	0.39	1	3.25	0.82	1.04
С	0.70	1	3.25	0.78	1.77
D	0.60	1	3.25	0.86	1.69
E	0.42	1	3.25	0.33	0.45
F	0.41	1	3.25	0.26	0.34
G	0.47	1	3.25	0.14	0.22
			TOTAL DEVEL	OPED	6.86

NOTE: HISTORIC FLOWS FROM AREA 2 WILL BE DIVERTED PRIOR TO ENTRANCE TO AREA 1.

THEREFORE, NO ACCOUNTING FOR THE FLOW WILL BE MADE.

TABLE 3B RUNOFF VOLUME Q100

BASIN	C COMPOSITE VALUES	Cf	I* RAINFALL INTENSITY IN/HR		Q VOL., CFS Q= C Cf I A
HISTORIC					
1	0.3	1.25	3.25	3.69	4.50
2	0.3	1.25	3.21	4.29	5.16
DEVELOPED					
Α	0.54	1.25	4.91	0.76	2.54
В	0.39	1.25	4.91	0.82	1.97
С	0.70	1.25	4.91	0.78	3.34
D	0.60	1.25	4.91	0.86	3.19
E	0.42	1.25	4.91	0.33	0.86
F	0.41	1.25	4.91	0.26	0.64
G	0.47	1.25	4.91	0.14	0.41
			TOTAL DEVEL	OPED	12.95

NOTE: HISTORIC FLOWS FROM AREA 2 WILL BE DIVERTED PRIOR TO ENTRANCE TO AREA 1.

THEREFORE, NO ACCOUNTING FOR THE FLOW WILL BE MADE.

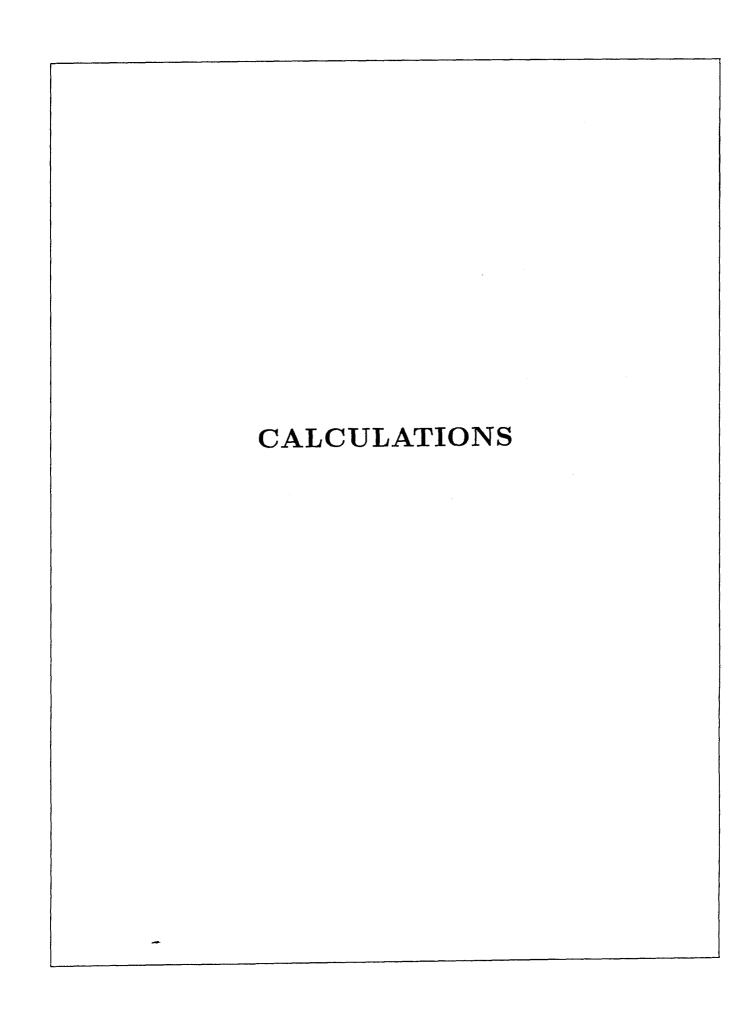
TABLE 4
VOLUMES FOR STORAGE HYDROGRAPHS
MODIFIED RATIONAL METHOD

Q10

Tc	С	I	Α	Q=CIA
TIME OF	COMPOSITE	RAINFALL	BASIN	VOLUMES
CONCENTRAION	RUNOFF	INTENSITY	AREA	CFS
	COEFICIENT	IN/HR	ACRES	
5	0.5	3.25	3.19	5.18
10	0.5	2.47	3.19	3.94
20	0.5	1.81	3.19	2.89
30	0.5	1.46	3.19	2.33
40	0.5	1.24	3.19	1.98
50	0.5	1.06	3.19	1.69
60	0.5	0.92	3.19	1.47

VOLUMES FOR STORAGE HYDROGRAPHS MODIFIED RATIONAL METHOD Q100

Tc	С	I	Α	Q=CIA
TIME OF	COMPOSITE	RAINFALL	BASIN	VOLUMES
CONCENTRAION	RUNOFF	INTENSITY	AREA	CFS
	COEFICIENT	IN/HR	ACRES	
5	0.5	4.95	3.19	7.90
10	0.5	3.85	3.19	6.14
20	0.5	2.85	3.19	4.55
30	0.5	2.26	3.19	3.60
40	0.5	1.84	3.19	2.93
50	0.5	1.7	3.19	2.71
60	0.5	1.44	3.19	2.30



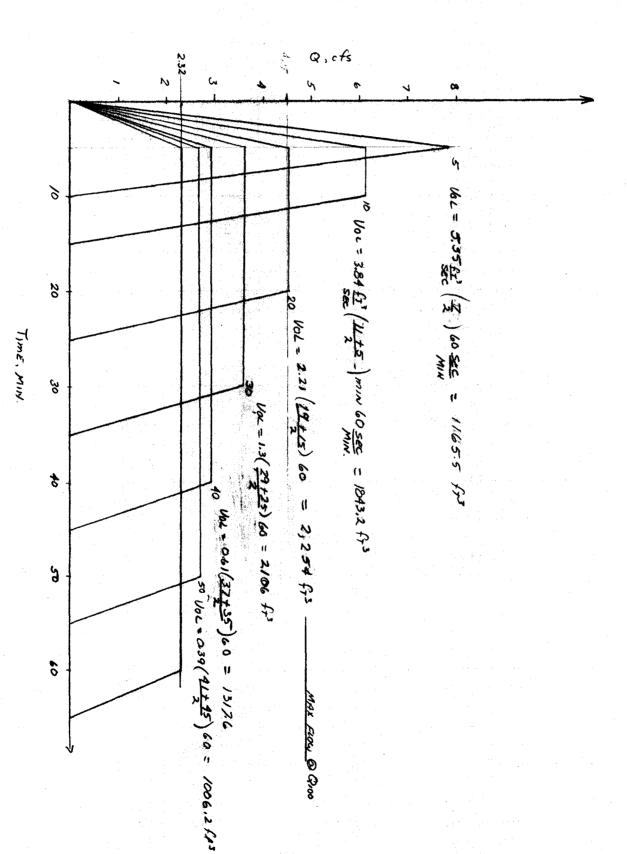
BANNER ASSOCIATES. INC.
CONSULTING ENGINEERS & ARCHITECTS
2777 CROSSROADS BOULEVARD
GRAND JUNCTION. CO 81506 • (303) 243-2242 8239.01 COLONY PARK CALCULATED BY __/1/AJ CHECKED BY SHEET NO. 2,32 Q,cfs ð VOL = Vac = 2.8 cfs (5.4) 60 sec 8 101-0:53 (14.8 + 15) 60 = Time, min. MODIFIED STORAGE LOLLIMES CALCULATION OF STORMWATER 30 16L = 0.01 (24.9+26) 60 = N RATIONAL 4536 ft3 4 505.6 fg3 USE a 14.97 43 Du DETENTION 6 2.32 cfs.

JOB NO. <u>8239-0/</u> JOB <u>COLONY PARK</u> CALCULATED BY <u>MOG</u> CHECKED BY DATE DATE

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CONSULTING ENGINEERS & ARCHITECTS
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GRAND JUNCTION. CO 81506 • (303) 243-2242

SHEET NO. ______ OF _____



101 = 0 8 (min) 60 Sec = 43

MODIFIED RATIONAL METHOD CALCULATION OF STORMWATER STORAGE VOLUMES

OUTLET STRUCTURE

DESIGN CALCULATIONS

High Head as compared with office diameter.

$$Q = CA\sqrt{2gH}$$

Q = 2.32 cfsH = 82.0-75.24 = 6.76

A = Area

G = 32.2

 $C = 0.60^1$

2.32 = 0.60
$$\frac{\pi d^2}{4} \sqrt{2(32.2)} = 6.76$$

2.32 = 0.4712 d^2 20.8649
 $d = 0.486! = 5.83!!$

Page 2 - 27 "Handbook of Applied Hydraulics".

DETENTION FACILITY VOLUMETRICS

Based on FAA Drainage Facilities Design

V = 1/3 b $(A + B + \sqrt{AB})$ A & B = Contour Areas, sf.

b = Depth Between Contours
V = Volume ft³

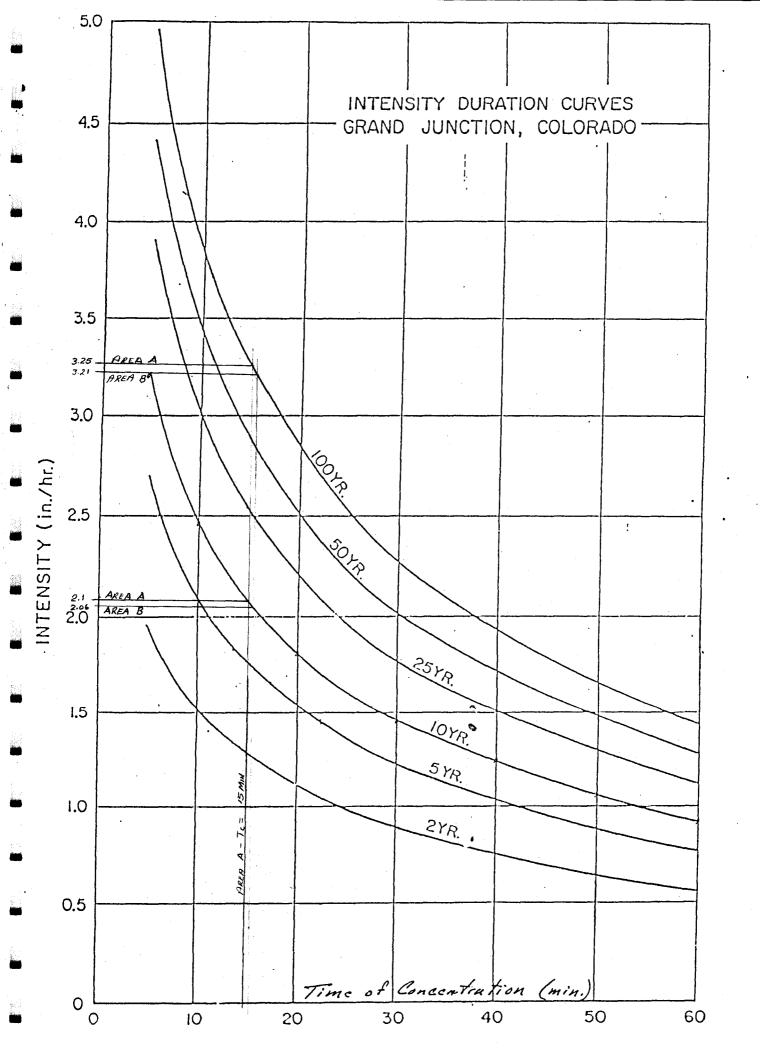
Basin Storage

Basin	A	В	d	√AB	V
E	1204.0	138	1.00	407.6	583.2
F	2776.0	55	1.40	390.7	1503.0
В	8030.0	777	1.00	2497.9	3768.3
C & D	7562.5	0	0.65	0.0	1638.5
G	1116.0	10	1.00	105.6	410.5
			To	tal Basin	7901 ft ³

Pipe Storage

<u>Pipe</u>	Area/L.F.	Length	Volume
18" RCP	$\frac{\pi (1.5)^2}{4} = 1.7671$	176'	311 ft ³
8" PVC	$\frac{\pi (.67)^2}{4} =$	407'	<u>143</u> ft ³
		Total Pipe Volume	454 ft ³

Grand Total of Storage Facilities = 8355 ft³



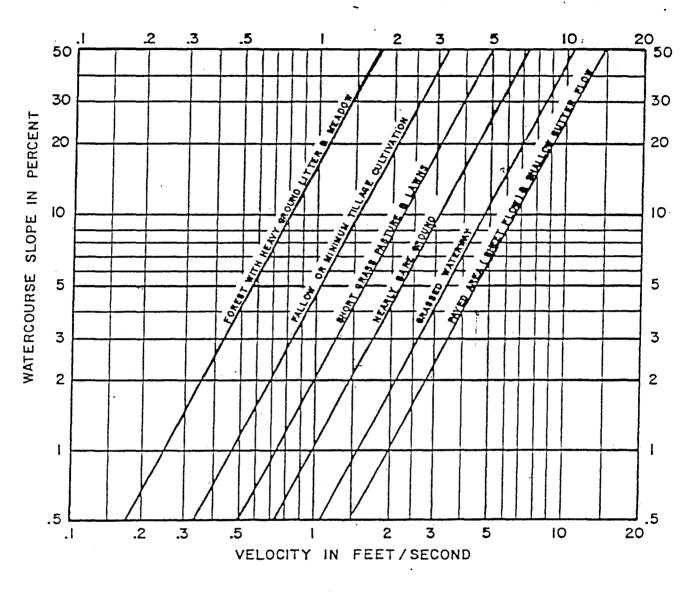
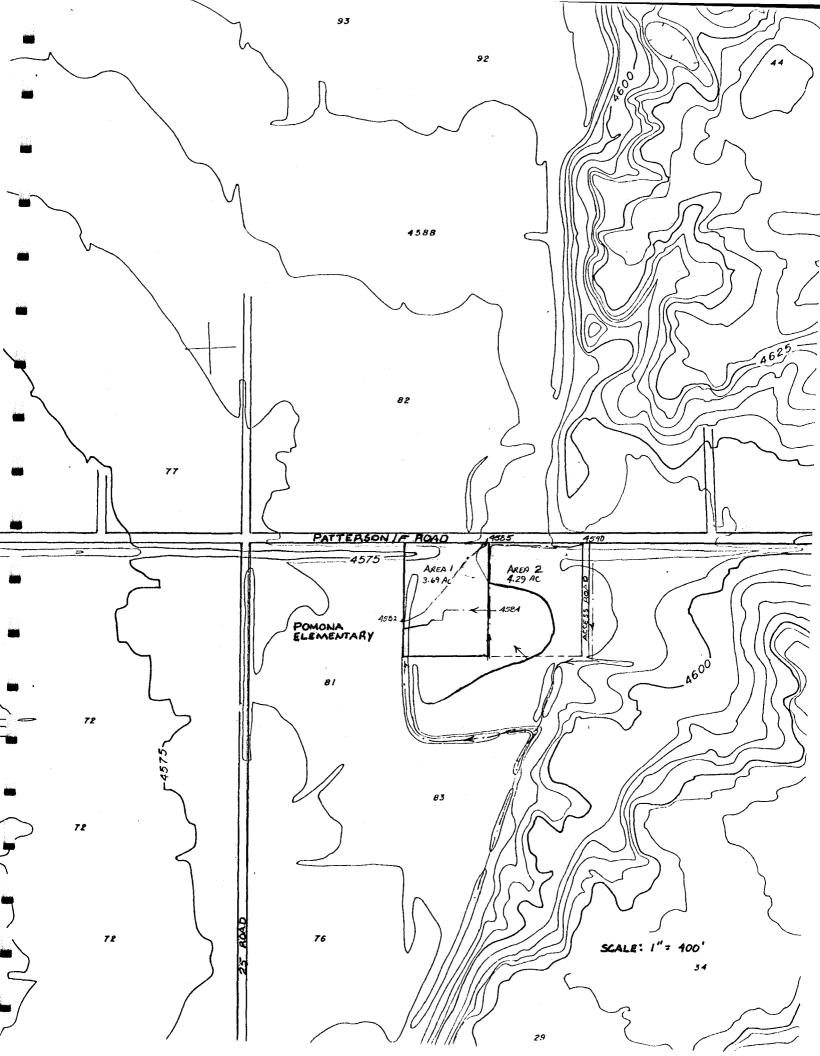


Figure 2-2 AVERAGE VELOCITIES FOR ESTIMATING TRAVEL TIME FOR OVERLAND FLOW..

(From: USDA, Soil Conservation Service, 1980)

Time of concentration is obtained by determining the average velocity for overland flow then dividing the length of the overland flow by the average velocity.



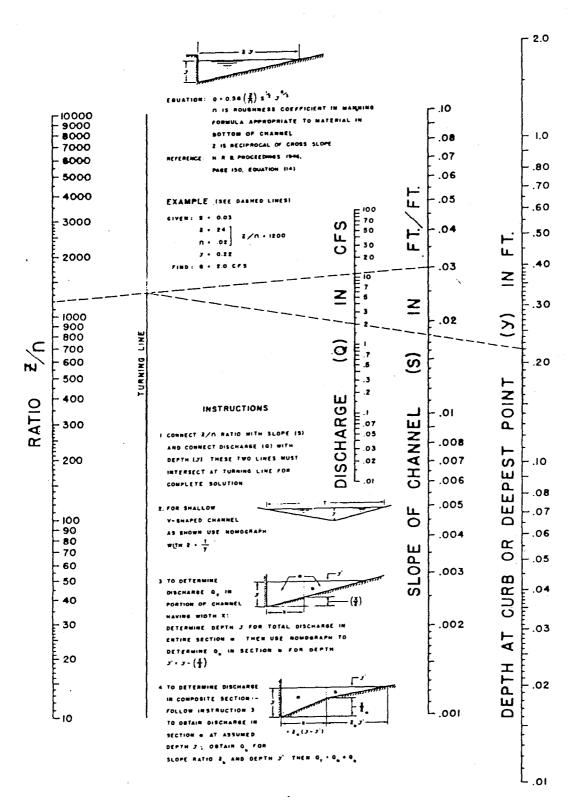


FIGURE 6-1. NOMOGRAPH FOR FLOW IN TRIANGULAR GUTTERS.

GEOLOGIC INVESTIGATION COLONY PARK MINOR SUBDIVISION

Mesa County, Colorado May 22, 1991

John H. Wright, C.P.G. & Associates

#41 01 Original Do NOT Remove From Office

GEOLOGIC INVESTIGATION COLONY PARK MINOR SUBDIVISION

Mesa County, Colorado May 22, 1991

CONTENTS

Introduction

Conclusions and Recommendations

Scope

Geology

Geologic Hazards

Mineral Resources

Site Conditions

Surface Features

Drainage

Construction Factors

Water

Soils

References

Radiation Examination

Map

GEOLOGIC INVESTIGATION COLONY PARK MINOR SUBDIVISION

Mesa County, Colorado May 22, 1991

INTRODUCTION

The proposed Colony Park Minor Subdivision is being developed by ALCO Building Co., 599 29 Rd., Grand Junction, CO 81505. The property consists of approximately 3.4 acres to be subdivided into 22 lots for town homes with common grounds. It is located in a portion of Section 10, T 1 S, R 1 W, Ute P.M. in Mesa County, Colorado west of the intersection of F Road and 26 Road. (See location map).

CONCLUSIONS AND RECOMMENDATIONS

- 1. The site was formerly shown by the Department of the Army (1976) to lie within a 100 year sheet flow floodplain. Subsequent improvements in the channel upstream and that adjacent to the north line of the property have contained the floodway in the channel (HUD, National Flood Insurance Program, 1978). Thus, the former hazard has been mitigated.
- 2. Evidence shows that a shallow water table may be expected to underlie the entire property. Below grade structures should be avoided.

SCOPE

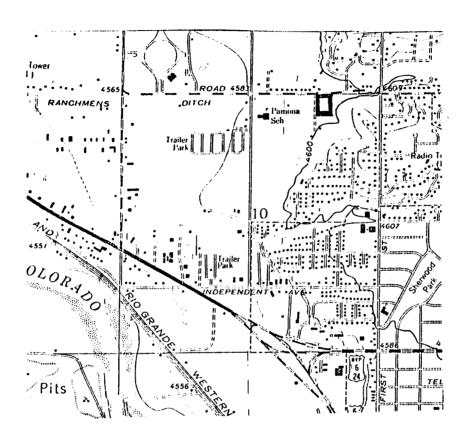
This report represents the results of a geologic investigation of the proposed Colony Park Minor Subdivision as required by Colorado S.B. 35 and local regulations. The investigation included a field examination as well as a review of available geologic literature.

A property map (1"=100') with 1' topographic contours was provided by the developers. Monumentation from the base survey was adequately located in the field.

The conclusions of this investigation are based solely on the site conditions at the time of investigation. They do not reflect hazards which might develop from improper design or construction methods.

GEOLOGY

The property lies entirely upon an alluvial floodplain deposit of sandy clay and sparse gravel which overlies the Cretaceous Mancos shale (Km). No outcrops of formational material exist on the property. Subsurface bedding is assumed to be nearly flat.



Colony Park Minor Subdivision

PROPERTY LOCATION MAP From USGS 7.5 Minute Quadrangle: Grand Junction Scale: 1" = 2,000'

Geologic Hazards

A 100 year sheet flow floodplain hazard was formerly shown by the Army Corps of Engineers (1976) to cover the entire site. This hazard referred to potential flooding of the open Horizon Drive Channel and the open Independent Ranchman's Ditch when both were already seasonally charged with irrigation waters. Subsequent to the Army Corps' investigations remedial work was done on both channels — to wit, containing portions of both channels in culverts — such that the Department of Housing and Urban Development (July 3, 1978) has indicated the floodway sufficiently contained and no 100 year flood hazard to presently exist. Thus, the former hazard has been mitigated.

A shallow water table is suspected to underlie the entire property. The source of this water is principally from two nearby irrigation ditches -- the Independent Ranchman's Ditch and the Horizon Drive Channel. While these two ditches have been contained in culverts in the immediate vicinity of the property, leakage from the open portions close to the property apparently continues to infiltrate the subsurface. Evidence of a shallow water table at 15' to 20' depth below surface was found in soils test holes drilled by Lincoln Devore in 1981. Furthermore, phreatophyte vegetation such as cottonwoods and russian olives flourished on the property at the time of this investigation. The hazard to property due to shallow water table can be easily mitigated by proper foundation design and avoidance of below grade structures such as basements. The subsurface soils report by Lincoln Devore (1981, cited below) adequately addresses this question, and makes appropriate design recommendations.

Mineral Resources

No developable valuable mineral resources are known to occur on the property.

SITE CONDITIONS

Surface Features

Natural topography is nearly flat, grading 0.5% - 1.0% to the southwest.

The surface consists mainly of an open field sparsely covered with poor grasses and cottonwood and russian olive trees. No buildings are located on the site.

Two shallow irrigation ditches cross the property, apparently once intended for local use but both presently dry.

Drainage

No stream channels exist on the property. Poor to moderate surface runoff drains southwesterly where it is captured by a branch of the

Independent Ranchman's ditch and eventually empties into the Colorado River.

Construction Factors

No hard or resistant outcrops of rock occur on the property, and surficial materials are easily rippable with conventional means.

WATER

Domestic water will be obtained from Ute Water.

Irrigation water will be derived from Grand Valley Irrigation.

Sewage will be conveyed off site by the City of Grand Junction systems.

SOILS

Surface soils are comprised of two soil types: "Ravola loam" and "Fruita and Ravola loam". Both are pale to light brown loam which may be slightly calcareous. They are alluvial soils with occasional gravels which overlie the Cretaceous Mancos Shale. In general, they display medium runoff, medium internal drainage, moderate erosion hazard, and sparsely saline soils characteristics. Occasionally these soils and the shale substratum contain lenses of bentonitic or swelling clays. Field observations do not indicate a significant hazard associated with these characteristics on site.

Subsurface soils tests are not required for minor subdivisions by Mesa County. However, a subsurface soils test has been conducted in the past (March 24, 1981) by Lincoln Devore, professional soils engineers, over a larger tract which included the site of this investigation. At least two of the test borings were collared on the site. The Lincoln Devore investigation made findings of a shallow water table, somewhat saline soils, and certain runoff characteristics. That investigation resulted in appropriate recommendations for construction. No significant change has been wrought on the property since that investigation. The findings and recommendations of that investigation should be followed.

John H. Wright Certified Profess ABPS ABPS STANDED LOS IST

REFERENCES

- 1. Soil Conservation Service; Soil Survey of the Grand Junction Area, CO; Series 1940, No. 19; 1955.
- 2. Army Corps of Engineers; Flood Hazard Information, Colorado River and Tributaries, Grand Junction, Colorado; 1976.
- 3. HUD National Flood Insurance Program Map; Flood Hazards of Grand Junction; July 3, 1978.
- 4. Lincoln Devore; Soil Test, Colony Park Subdivision; March 24, 1981.

RADIATION EXAMINATION

COLONY PARK MINOR SUBDIVISION

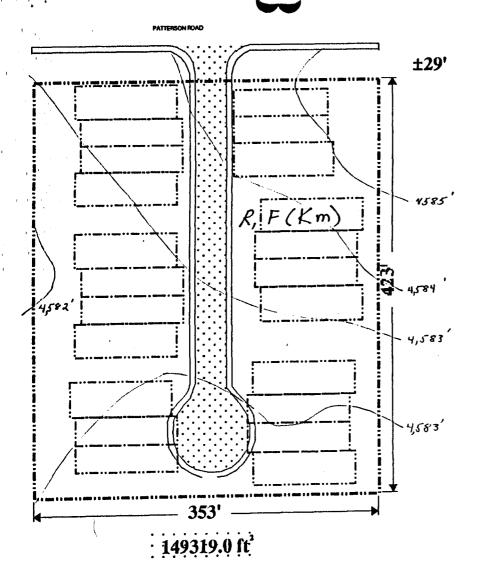
Mesa County, Colorado May 22, 1991

The proposed Colony Park Minor Subdivision, being developed by ALCO Building Co., 599 29 Rd., Grand Junction, CO 81505, was examined for potential radiation hazard. The property is located in a portion of Section 10, T 1 S, R 1 W, Ute P.M. in Mesa County, Colorado. Conditions at the site at the time of this investigation indicate the site is free of radiation hazard.

The examination of the site was carried out according to the requirements of Colorado SB 35, and of local regulations which require radiation examinations for proposed subdivisions. The field examination was furthermore carried out in conjunction with the foregoing geologic field investigation, using a Urinco Scintillation Counter Model #720N. The surface was thoroughly traversed on foot. Background radiation was 50 counts per second, +/- 10cps. No where on the property was found a reading higher than background.

As all readings were well below Colorado Health Department standards of 250 counts per second, there is no apparent reason for more detailed radiation survey work.

John H. Wright Certified Profession ist



COLONY PARK MINOR SUBDIVISION

Scale: 1"= 100' Contour Interval: 1'

Explanation:

R, F(Km) Ravola and Fruita loam (overlying Cretaceous Mancos Shale)

No other geologic features are shown since no outcrops or structure can be observed on the surface.

North

REVIEW SHEET SUMMARY

(Page 1 of %)

TITLE HEADING: COLONY PARK FILING NO. 2 FILE NO. #41-91

Request for a Preliminary Plan and Plat for 22 residential lots on 3.43 acres in an existing ACTIVITY:

Planned Residential ten units per acre (PR-10) Zone.

PETITIONER: Alco Building Company

LOCATION: Southeast of Patterson and 25 1/2 Roads

PHASE: Preliminary **ACRES:** 3.43

PETITIONER'S ADDRESS: 599 25 Road

Grand Jct, CO 81505

Banner & Assoc. Jim Langford, 243-2242 ENGINEER:

STAFF REPRESENTATIVE: David Thornton (303) 244-1447

NOTE: WRITTEN RESPONSE BY THE PETITIONER TO THE REVIEW COMMENTS IS REOUIRED A MINIMUM OF 48 HOURS PRIOR TO THE FIRST SCHEDULED PUBLIC HEARING.

City Police Department 06/05/91 Captain Gorby 244-3562

Police Department is concerned with noise complaints from residents due to activities at Pamona Softball fields. Recommended acceleration, and deceleration lanes be provided for entrance and exit to subdivision.

City Fire Department 06/06/91 George Bennett 244-1400

- 1. Access appears to be adequate at this time.
- 2. In meeting City Ordinance #2513 Para. 31-94(2)b. fire hydrants are to be placed at each intersection and not more than 300 feet apart. Please move the south hydrant north to meet this requirement. An (8) eight inch supply line is to be provided. A minimum fire flow of 1,000 gpm must be provided.

Ute Water 06/05/91
Gary R. Matthews 242-7491

Individual meters would connect to the 8" main on Cider Mill Road. Illustration of the water service connection on sheet 9 of 10 is incorrect. Curb stop valves need removed and a corp stop valve added at the end of the service line.

Policies and fees in effect at the time application will apply.

Public Service 06/06/91 Carl Barnkow 244-2658

<u>Gas</u>: No objection to replat, however, Lots 16 though 19 appear to be platted over existing easement. Buildings may not be constructed over easement. This includes sheds, patios, etc.

<u>Electric</u>: No objections. Facilities will be front lot line construction. Meters are not to be located inside fence areas.

Post Office 06/07/91 Synthia L. Polzine 244-3400

This subdivision is on city route 22 for mail delivery. Mail delivery will be centralized unless development is 50% complete. Please notify Postal Service when addressing has been established.

 City Engineer
 06/12/91

 J. Don Newton
 244-1559

<u>Drainage</u>: In drainage calculation, why is historic discharge from basin 2 not included in allowed maximum release rate? If included, the allowed release rate would increase from 2.32 to 4.97 cfs. I have no objections to the proposed drainage plan and report, however, the storm sewer pipe should be connected to the proposed new drainage pipe to be constructed along the west side of the development. Please call the Grand Junction Drainage District for details.

<u>Street</u>: What is the "EGTC" line shown along outside of the right-of-way line on sheet 7?

Please complete the left and right side profile lines and label the existing ground line, flow line, or top of curb, etc. on the profiles.

A right turn deceleration lane at the entrance to this development is not warranted at this time but will be required upon any future extension of Cider Mill Road. No future street access on F Road will be allowed within 300' of Cider Mill Road. The petitioner should meet with the owners of the other undeveloped land in the area and develop a traffic circulation plan and street network for future development of their properties. This should be done prior to final approval of Colony Park Filing #2. Standard City details shown on streets 8, 9, and 10 need to be updated to agree with current standards.

City Parks & Recreation 06/12/91 Don Hobbs 244-1545

Open space fee due - 22 units x \$225 = \$4,950

City Property Agent 06/18/91 Tim Woodmansee 244-1565

- 1. Lot corners need to be tied to the subdivision boundaries.
- 2. The sum of the distances along the northern boundary is .08 greater than the measured overall dimension.
- 3. Lot os-2 encroaches upon Lot 11 and renders it undevelopable. Should Lot 11 be removed or this particular block of lots moved to the north?
- 4. There are errors or discrepancies in the following courses:

```
#4 should have a southwest bearing;
#5 this bearing should be labeled on plat;
#7 this bearing should be labeled on plat;
#12 bearing does not match plat;
#13 distance not shown on plat;
```

Please re-check all bearings and distances.

4. The revocable permit will be scheduled to go before Council at the final hearing.



Alco Building Company, Inc.

June 28, 1991

Grand Junction Planning Dept. 250 North 5th Grand Junction, CO 81501

Dear Sirs:

PROBLEM GRAND JUNCTION PLANNING DEPARTMENT

JUN 28 1991

These comments are in response to the review comments recieved from the various agencies relative to the preliminary submittal for Replat of Colony Park, Filing #1 as follows:

GRAND JUNCTION DRAINAGE DISTRICT:

I have contacted Mr. John Ballagh and discussed the following:

- 1.) The easement on the west property boundary has been changed to read drainage easement removing the word proposed.
- 2.) The wording in the plat narrative has been referred to legal council and the engineer for their interpretation as to whether a change in lanuage is needed.
- 3.) Due diligence will be taken in landscape planting to anticipate the need for equipment access and repair.
- 4.) The developer has agreed to pay the cost of material for one manhole for the proposed storm sewer to be installed on the west boundary of the development. The developer has agreed to dedicate the easement needed for said line.

CITY POLICE DEPARTMENT:

1.) Per City Engineer, acceleration and deacceleration lanes are not warranted for this subdivision.

CITY FIRE DEPARTMENT:

1.) Spacing of fire hydrant has been moved to meet requirements.

UTE WATER:

1.) Concerns we relayed to engineer, Banner & Associates, for changes if needed.

CITY PARKS/RECREATION:

1.) We were told the previous developer paid open space fees, if so, additional fees would not be due. If the developer did pay it would have been in 1981, however, if fee was not paid it will be by this developer.

Page 2

PUBLIC SERVICE:

1.) An error existed showing a gas easement and has been changed.

POST OFFICE:

1.) Comments were informative in nature, no response needed.

UTILITY ENGINEER:

Plat Plat

- 1.) The drainage easement is all part of the open space which is clearly marked "access, drainage, & utility".
- 2.) Plat narrative has been referred to legal council for interpretation as to whether a change is needed.

Utility composite

- 1.) Sewer Line will be installed with material acceptable to the City of Grand Junction.
- 2.) Has been changed.
- 3.) Changed
- 4.) Storm sewer ties into proposed line to be installed by the City of Grand Junction & Grand Junction Drainage District.

Specifications

1-4 Outdated sheets have been replaced with sheets reflecting new city standards.

Drainage

1.) A full drainage report was submitted with preliminary package.

CITY PROPERTY AGENT:

1-5 all items of concern were referred to the surveyor and engineer at Banner & Associates for verification and change if needed.

CITY ENGINEER:

- 1.) Drainage concern was referred to Banner & Associates and was verified calculations are correct.
- 2.) "EGTC" is clearly marked on legend.
- 3.) A meeting with adjacent property owners was called to discuss traffic circulation of future development on their properties. The concensus was this development would not be the major access to future development of the adjacent property.

COMMUNITY DEVELOPMENT DEPARTMENT:

- 1.) Submitted to Dave Thorton.
- 2.) Individual unit trash pick-up is the developers intent.
- 3.) Labeling of the replat has been referred to legal council for interpretation.
- 4.) Development Schedule Phase 1 August 1991, Phase II within one year.
- 5.) Landscaping bids are being solicited at this time to determine dollar amounts.
- 6.) Submitted with final
- 7.) Will be corrected
- 8.) Referred to legal and engineering

COMMUNITY DEVELOPMENT DEPARTMENT: Continued

- The gas easement was an error and has been corrected.
- 10.) Refer to Plat as old boundary is shown.
- 11.) Informative no response
 12.) Informative no response
- 13.) Refer to #8 A & B will be completed prior to requesting Plat sign-off, however, legal council and engineering feel plat title should remain as is.

Respectfully Submitted,

Bruce Milyard

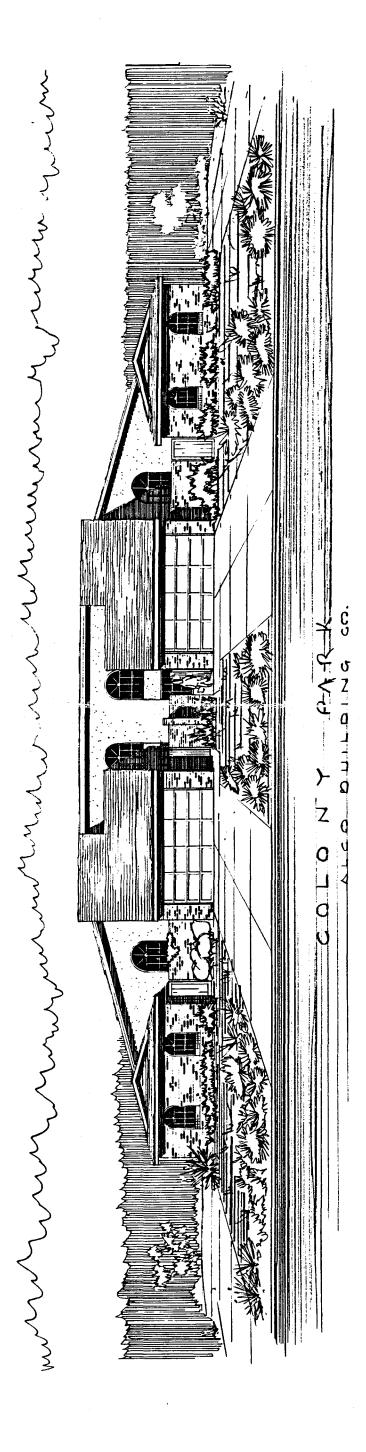
Alco Building Company

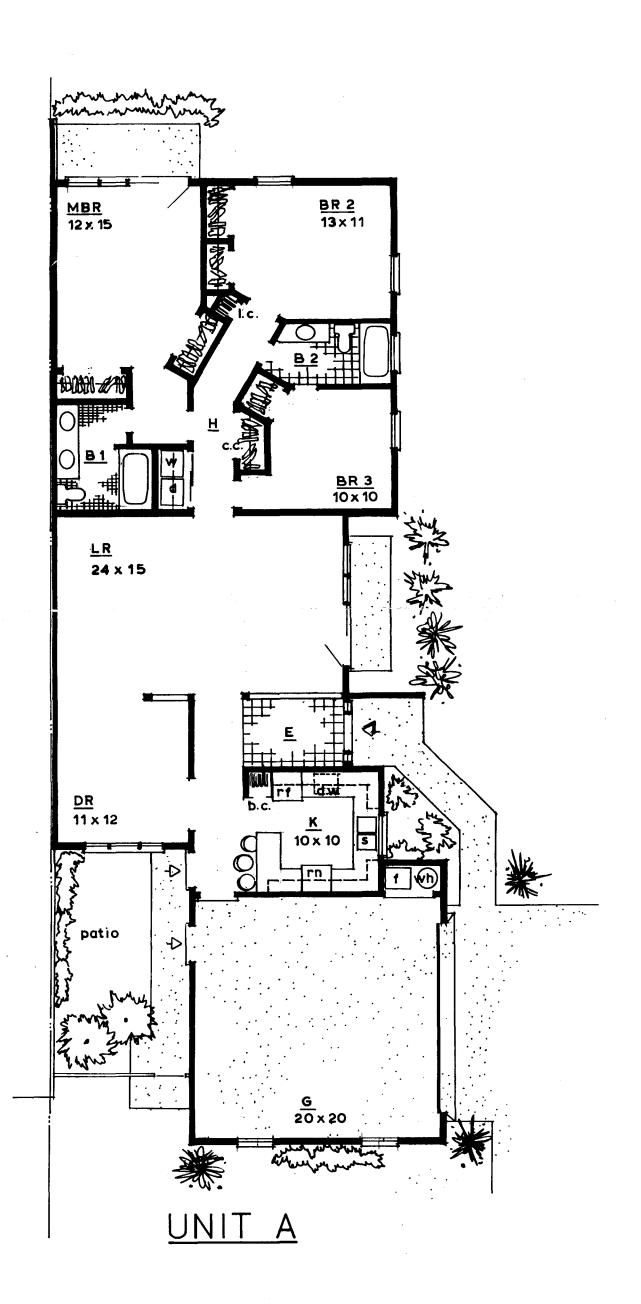
-ACTION SHEET. FILE NUMBER **PRELIMINARY** ZONE PR-10 UNITS DENSITY

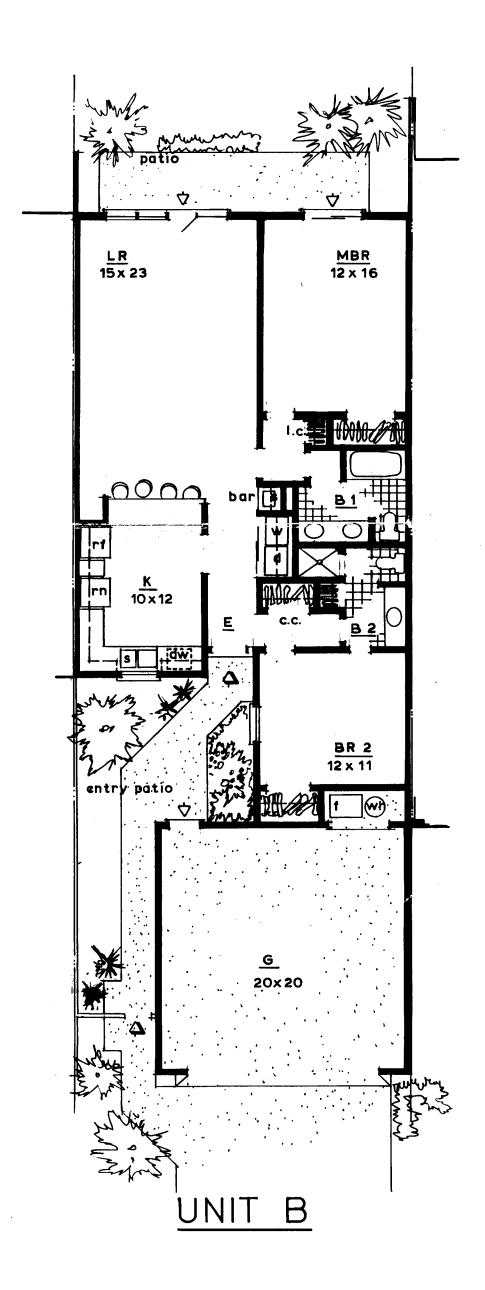
ACTIVITY Phuling plan plat Replat

COMMON LOCATION 5. of Pakuson Rd. - 1,000 ft. East of 25/3 Rd

DATE SUBMITTED 01-9 DATE MAILED OUT DATE POSTED TAX SCHEDULE # 2945-101-29-00 __ DAY REVIEW PERIOD RETURN BY ___ OPEN SPACE DEDICATION (acreage) _____ OPEN SPACE FEE REQUIRED \$_____ PAID RECEIPT #_ RECORDING FEE REQUIRED \$______ PAID (Date) _____ DATE RECORDED ____ -REVIEW AGENCIES - A B C P E F G H I J K M N O P Q R S T U V W X Y Z AA BB CC DD EE FF G F Planning Department City Engineer Transportation Engineer City Parks/Recreation 0000 City Fire Department City Police Department 🗸 County Planning O County Engineer County Health Floodplain Administration G.J. Dept. of Energy Walker Field School District Irrigation G.V. Drainage GJ. Water (Ute, Clifton) Sewer Dist. (FV, CGV, OM) U.S. West Public Service (2 sets) State Highway Department State Geological State Health Department City Property Agent 🗸 City Utilities Engineer 🗸 000 City Attorney O Building Department **DDA** GJPC (7 packets) Ocic (11 packets)
Other Post Office **TOTALS** BOARDS Approve 5-0 Subject to Review Agency Comments of recommend design the Revokable Permit for fence 6.0 Do NOT Remove STAFF From Office 4315 payable to City of N.J. at low of submitted





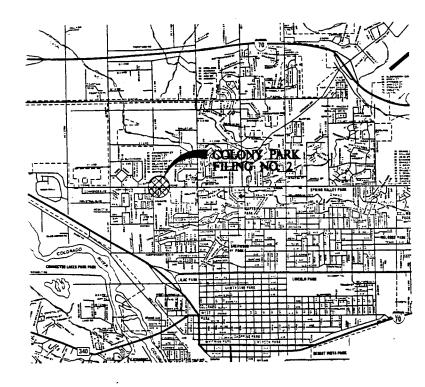


Section 1

ALCO BUILDING COMPANY

PLANS FOR CONSTRUCTION OF

COLONY PARK FILING NO. 2



VICINITY MAP

MAY 1991

NO.	TITLE
1.	TITLE SHEET
2. & 3.	PLAT
4.	LEGEND AND CONSTRUCTION NOTES
5.	GRADING AND DRAINAGE PLAN
6.	UTILITY COMPOSITE
7.	ROADWAY AND SEWER PLAN AND PROFILE
8.	SEWERLINE STANDARD DETAILS
9.	WATERLINE STANDARD DETAILS
10.	ROADWAY STANDARD DETAILS

BANNER

BANNER ASSOCIATES, INC. • CONSULTING ENGINEERS & ARCHITECTS

2777 CROSSROADS BOULEVARD • GRAND JUNCTION, CO 81506 • (303) 243-2242

JOB NO. 8239-OI

COLONY PART FILING NO. 2: A REPLAT OF A PORTION OF COLONY PARK, FILING NOT, AND A PORTION OF THAT THE RECEL DESCRIBED IN DOCUMENT RECORDED IN BOOK 1814, PAGE 405, COLONY PARK, PHASE I, FILING 2, SECTION 10, T.I S., R.I W., UTE MERIDIAN

CTY APPROVAL	CRIPICATE OF DWNERSHE AND OCCICATION	
Colony Park, Phose I, Filling No. 5: A Replat of a Parties of Colony Park, Filling No. 1: No. II No.	KNOW ALL MEN BY THESE PRESENTS theil George O, Young boing the owner in fee simple of Colony Park, Filong No. 2, A Roylor of a Perline of Colony Park, Filong No. 1, and a Perline of theil Parcel described in Securement reserved in Book 1844, Page 400, Section No. Teamstep 1 Seauth, Renge 1 West, Uls Meridian, City of Grand Junction, County of Messe, Sitte of Colorede dees hardly Replai, said real property in accordance with the Regist shown hereon.	
City Menager	LEGAL RECOMMEND OF AN ANY DAMP CHARGO A A BEN AT OF A RECOMMEND	
	LEGAL DESCRIPTION OF COLONY PARK, FILINGHO, 2: A REPLAT OF A PORTION OF COLONY, PARK, FILING NO. 1	
Problems of the Grand Junction City Council	Colony Park Filter, No. 2 is located in the E 1/2 of the NW 1/4 of the NE 1/4 of Section 10. Taminship I South, Renge I west of the Utle Meridian, City of Grand America, County of Mess, State of Colorado more taily described as Indoors.	
Chairman of the Orand Junction City Planning Commission	Beginning of the northosology conner of Colony Park, Filing Mo. 2 whence the U-A corner, a Mass County Survey Marker, common to Specifica 3 and (0, 11.5, R.H. w., M. Nears N. 85" 44" 22" W, 1015 & feet with the Section line between Sections 3 and 10 between the U-A corner and Section corner of 2-3-10-11 considered to bear N. 69" 56" 23" W, and with all bearings lated herein rejective theories.	
City Planning Director	L. Theince S 00" 0" 34" E, 423.08 teefs 2. Thence N 69" 55" 3" W. 354.08 teefs 3. Thence N 00" 0" 1" E, 423.07 feeb; 4. Thence S 69" 50" 25" E 353.06 feeb to the Point of Sephining.	
City Engineer	Colony Park, Filing He. 2 on described above contains 3.436 acros more or loss.	
MESA COUNTY SURVEYOR	LEGAL DESCRIPTION OF PHASE 1 OF COLONY PARK-FILING NO. 2 A REPLAT OF A PORTION OF COLONY PARK, FILING NO. 1 PLAT BOOK 13, PAGE 581, AND A PORTION OF THAT PARCEL DESCRIPED IN DOCUMENT RECORDED IN BOOK 186, PAGE 403.	
Received		
Recog Note	Phose I is located in Colony Part, Filter No. 2 in the E $I/2$ of the NW $I/4$ of the SE $I/4$ of Section 10, Township I South, Renge I West of the Ule Meridian City of Grend Junction, County of Mose, State of Colorado more halfy described as indicate.	
	Beginning at the northeasterly caraor of Phase I of Colony Park, Filing No. 2 whence the I/4 cortex, a blase County Survey Marker, common to Sections 3 and I/0, T.J. S., R.J. W., U.M. bears N 80° 02 °C W. B.T.J. I feel with the Section Res between Sections 2 of 00 between the I/4 corner and Section corner at 2-3-10-8 considered to bear N 80° 05° 20° W. and with oil bearings State Anexis never thereto.	
	L. Thance S 00° 07 35° W. 296.40 teets. 2. Thence southeasterly 29.37 teet along the arc of a circular curve concave to the northeast	
	with a redux at 38.00 feet, a delte of 44° 16° 56° and a chord bearing 5 22° 06° 53° E, 28.64 feet;	
COUNTY CLERK AND RECORDER'S CERTFICATE	 Thence southerly 77.29 test dong the erc of a circular curve concave to the west with a radius of 50.00 test; a dolta of 88° 33° 52° and a chord bearing \$ 00° 0° 35° w, 59.62 feet. 	
State of Colorado	 Thence southwesterly 29.37 feet along the arc of a circular curve conceve to the southeast with a radius of 38.00 feet, a dalta of 44° 18° 58° and a chord bearing \$ 22° 08° 53° E. 	
County of Mose	28.84 feet; 5. Thence S 00° O' 35° W. 3.78 feet;	
I heraby certify that Colony Park, Filing No. 2, Phase & A Replat of a Portion of Colony Park, Filing No. 1, Section 10, T.J. S., R.J. W., Ulo Meridian was titled for record	5. Thence N og' SE 3' W 3.76 year) 7. Thence N og' SE 3' W 3.76 year) 8. Thence N og' SE 3.76 leaf) 8. Thence N og' SE 3.76 leaf)	
in the affice of the County Cloth and Resorder of More County ofM, an thedey ofRecoption NoRecoption No	with a radius of 38.00 feet, a dolta of 44° 16' 56° and a chord bearing N 22° 06' 53° W, 26.64 feet:	
	 Thence northerly 77.28 feet along the arc of a circular curve conceve to the east with a realise of 50.00 feet, a dalta of 88° 33° 52" and a cherá boaring N 00° 07° 35° E, 89.62 	
	lest; 10. Thence northeasterly 18.90 feet along the arc of a circular curve conceve is the northwest with a radius of 38.00 feet, a date of 28° 29° 28° and a chard bearing it 30° 03' 48° 5	
Mode County Clork and Recorder	16.70 feeth. 8. Thence N 09° 50° 20° W. 157:6 feeth. 12. Thence N 00° 07' 17' E. 306.74 feeth. 13. Thence S 00° 07' 17' E. 306.74 feeth. 13. Thence S 00° 07' 10' E. 300.82 feet is the Point of Seginning.	
Deputy	 Thence S 69" OF 20" E, 208.62 (seel to the Point of Beginning. Phase 1 of Colony Park, Filing No. 2 or described above contains LBT7 acres more or less. 	
	That self ewner does hereby dedicate the streets shown in the pict shown hereon to the City of Great Junction on behelf of the public foreign and does hereby dedicate those persons of Phase I of Clorey Perk, Film, Ne. 2 which are the elebed as Access, Drohage additing the self-shown in the Pict shown hereon are dedicated to the City of Great Junction in behelf of the Public Unity Componises and the Public as separated assessments for the installation and emissiones of willing, access and designed scalings, including by not limited to framewasten lines, startly limit to the public of	
COUNTY PLANNING COMMISSION CERTIFICATE	by said owners. Said outsements and rights shall be sifficed in a reasonable precent manner.	
Approved this dey of Commission of the County of Mose, Coloredo.		
	DE WITHESS WHEREOF. I herounts set my head this day of	
Chairmen BOARD OF COUNTY COMMESSIONER'S CERTIFICATE		
Approved this der of A.D., 1991, Board of	George D. Young	
County Commissioners of the County of Moss, Colorado.	ACKNOWLEDGEMENT OF OWNERSHIP	
	State of Colorade	
Chairman	County of Mase	
UTBITIES COORDINATING CERTEICATE Approved this 407 of A.D., 1991.	On this day of A.D., 1991, before me the undersigned citicar, personally appeared George D. Young and acknowledged that he executed the foregoing Certificate of Ownerships, for this purposes therein continued.	
Approved this dep of A.D., 1956.	IN INTINESS WHEREOF, I hereunte effix my hand and official seal. My commission express	
	Notory Public	
	Aitress	

SURVEYOR'S CERTIFICATE

I, Wollace E, Beede, a Professional Land Surveyor, Scensed under the laws of the State of Calorada, de hardly certify that Colony Park, Filing No. 2; A Replat of a Portina of Lobory Park, Filing No. 1, and a Portina of the Procesi described in decument recorded in Book 1884, Page 405, and Colony Park, Phase I, Filing No. 2, Section 10, T.I.S., R.I.W., Use Marifolds, shown hereon here seem progress under my direct toppervision and accurately represents a survey conducted under my direct supervision. This survey complies with respictable Mass County and State of Colorada regulations to the best of my

M WITNESS WHEREOF, I hereunto officer and efficien seel this 30

Wollae Wollsee E. Beedle P.L.S. No. 20832

NY PARK, FILING NO. 2: A R

COLONY PARK, FILING NO. 2: A REPLAT OF A PORTION OF COLONY PARK, FILING NO. I, AND A PORTION OF THAT PARCEL DESCRIBED IN DOCUMENT RECORDED IN BOOK 1814, PAGE 405, COLONY PARK, PHASE I, FILING 2, LOCATED IN E 1/2, NW 1/4, NE 1/4 OF SECTION 10, T.I S., R.I W., UTE MERIDIAN, MESA COUNTY, COLORADO

BANNER ASSOCIATES, INC. Grand Junction, Colorado

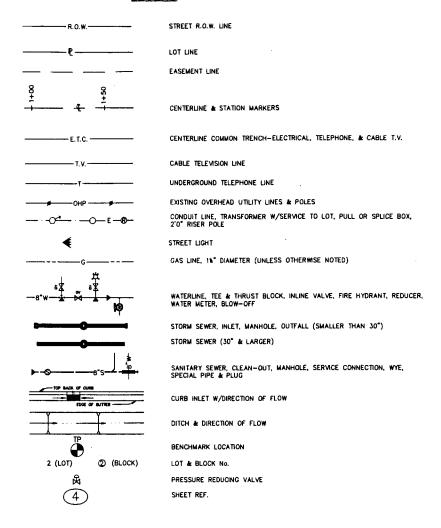
SCALE: JOB NO: DATE: SHEET NO:
N.T.S. 8239-01 5-29-91

DISCOVER SUCH DEPET: IN NO EYERT MAY ARY ACTION SASES OF ON A DEPET.

IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF

CERTIFICATION SHOWN HEREON.

LEGEND



GENERAL CONSTRUCTION NOTES

- Alignment, centerline curve data, and stationing to be verified from approved subdivision plat before construction.
- Locations of utilities shown on these plans are approximate only. Contractor is to contact affected utility for specific locations before digging.
- These plans and the surveys upon which they are based are tied into the system of Monument Linc: provided by the City of Grand Junction. The stationing shown on 'f' Road is relative to the brass cap at 25 1/2 Road being Station 100+00.
- Contractor to provide plugs and morker posts at all pipe stubouts noted on Plans, include cost in unit price bid per linear foot of pipe.
- On existing pipe and on proposed pipe—by-others, Contractor to remove existing plug and make connection. No separate pay
- 6. All satisfactory excess excavation from utility construction shall be stockpiled as directed by Engineer. All unsatisfactory and waste material including vegetation, roots, concrete, rocks, and other debris, shall be hauled from the project by the Contractor. No sevarate pay.
- Contractor to verify location and esvation of existing utilities prior to the construction of proposed utilities.
- 8. Contractor shall give 48 hour notice to all authorized inspectors, superintendents, or person in charge of public and private utilities affected by his operations prior to commencement of work. Contractor shall assure himself that all construction permits have been obtained prior to "commencement of work. All permits obtainable by the Contractor shall be obtained at the Contractor's expense.
- Contractor shall confine his construction operations to the rights—of—way, sasements, and lots, as shown on Plans and Plat. Any domage to private facilities outside these limits shall be repaired by the Contractor at no expense to the
- Contractor shall be responsible for the field location and protection of all existing utilities and structures not scheduled for disturbance under this Contract.
- 2" x 4" marker posts, extending a minimum of 2'-0" above grade, are to be placed at the ends of all service line terminations.
- The Contractor will coordinate his construction with the relocations or extensions of gas, telephone or policy as needed for service to this site.
- 13. When these plans or technical specifications are found to be in conflict with City of Grand Junction details or specifications, or those of the Utle Water Conservancy District, the more restrictive will apply.

SANITARY SEWER CONSTRUCTION NOTES

- Service connections to manholes will not be permitted. Services shall be located as shown on the Utility Composite.
- Manholes are to be constructed in accordance with current City of Grand Junction typical details. Care shall be taken in forming the inverts, cones or slabs are to be rotated such that openings are aligned as nearly over the inlets as possible and there are
- The Contractor shall set rim elevations outside paved surfaces to 4" above natural ground or finish grade.
- Water stop gaskets and clamp assemblies are to be furnished and installed at all connections to manholes. No separate
- Where sanitary sewers cross under waterline with less than 2-feet of vertical separation, and in all cases where the sanitary sewer crosses over the waterline at any depth, provide an 18-foot joint of Special Pipe. SEE DETAIL. Include cost of waterline crossing (Special Pipe with concrete collars, adapters, and approved backfill), in unit price bid per lineal foot of sanitary sewer in appropriate
- Sanitary sewer lines are to be tested in accordance with current City of Grand Junction technical specifications. Contractor to furnish all materials and equipment. Include cost in unit price bid for sanitary sewer lines.

STORM SEWER CONSTRUCTION NOTES

- All storm sewers and leads to be ASTM, C-76, Class III, All storm sewers and leads to be ASIM, C-70, Ulas III, reinforced concrete pipe unless otherwise indicated. Joints of pipe to be tongue and groove. Bell and spigot pipe will be acceptable if Contractor bears cost of any additional expense for materials or the relocation of other utilities resulting form such substitutions.
- All storm sewers and leads to be Class 100, DR 25, PVC pipe unless otherwise specified.
- All storm sewer manholes shall be precast concrete as shown in DETAILS.

PAVING CONSTRUCTION NOTES

- All road widths, and radii are to face of curb or flowline unless noted otherwise. Any "spot" design elevations are to flowline of curb and gutter unless otherwise noted.
 - T.C. = top of curb elevation
 T.P. = top of pavement elevation
 T.R. = top of manhole rim
- Contractor to protect existing utilities and appurtenances.
 Manholes, drainage inlets, utility lines, etc., damaged, covered or filled with dirt or debris by the Contractor shall
 be cleaned and repaired at no expense to the Owner.
- Hot-mix asphaltic concrete to be Grading E. A mix design for the proposed pit must be approved by Engineer prior to placement of pavement.
- Where proposed pavement is to match existing pavement, existing pavement is to be square cut, full base thickness is to be brought to match line and existing surface is to be tack—coated before proposed surface is
- Handicap ramps are to be constructed where indicated on the plans and in accordance with current City of Grand Junction Standard Details.
- Curb, gutter and drainage pans to have expansion joints at each change in horizontal alignment of curb and gutter, but in na case at a greater distance apart than 100 feet. Locate dummy grooved joints between expansion joints at
- 8. 4° mat is to be obtained by 2 applications, a tack coat will be applied between the bottom and finish mat. Tack coat to be amulaified asphalt (CSSIh) applied at a rate of 0.10 gallons per square yard. Include cost of tack coat in unit price for Hot Bituminous Pavement.

WATERLINE CONSTRUCTION

LEGEND AND CONSTRUCTION NOTES

- Waterline materials to be as follows:

 (a) less than 2-inch service lines to be copper (Type K).

 (b) 2-inch service lines to be Class 200 (DR-21) PVC.

 (c) 4-inch and larger to be AWWA Class 150 (DR-18) PVC.
- Waterline fittings for 4-inch and larger waterlines to be Cast Iron (C-150). Thickness Class 22, with polyethylene wrap.
- All 2-inch and smaller valves to be rated for 200 psi static pressure.
- All waterlines to have normal cover of 5-fee', except at drainage swales where a minimum of 4-feet will be allowed.
- All materials, labor and equipment required for testing and disinfection of waterlines shall be furnished by Contractor.
- All pipe bends/angle points, both horizontal and vertical, as called for on the plans are to be thrust blocked per City of Grand Junction Technical Specifications.
- Waterline lowerings, if needed, will be constructed with 45' bends, joint restraints, tie rods and anchors in accordance with City of Grand Junction Standards.



BANNER ASSOCIATES, INC. • CONSULTING ENGINEERS & ARCHITECTS 2777 CROSSROADS BOULEVARD @ GRAND JUNCTION, CD 8606 @ [303] 243-2242
605 E, MAIN @ SUITE 6 @ ASPEN, CO 868 @ [303] 925-5857

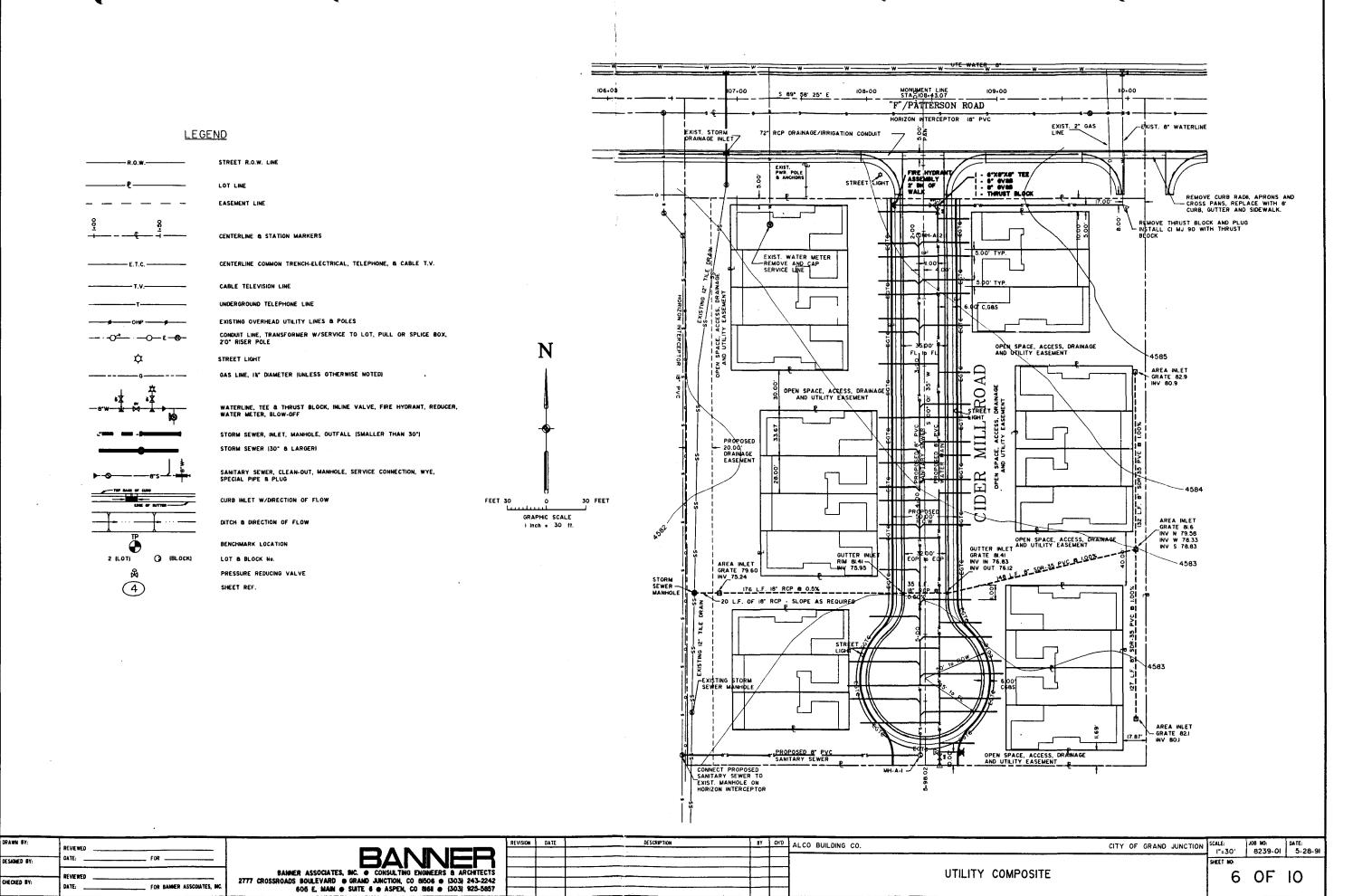
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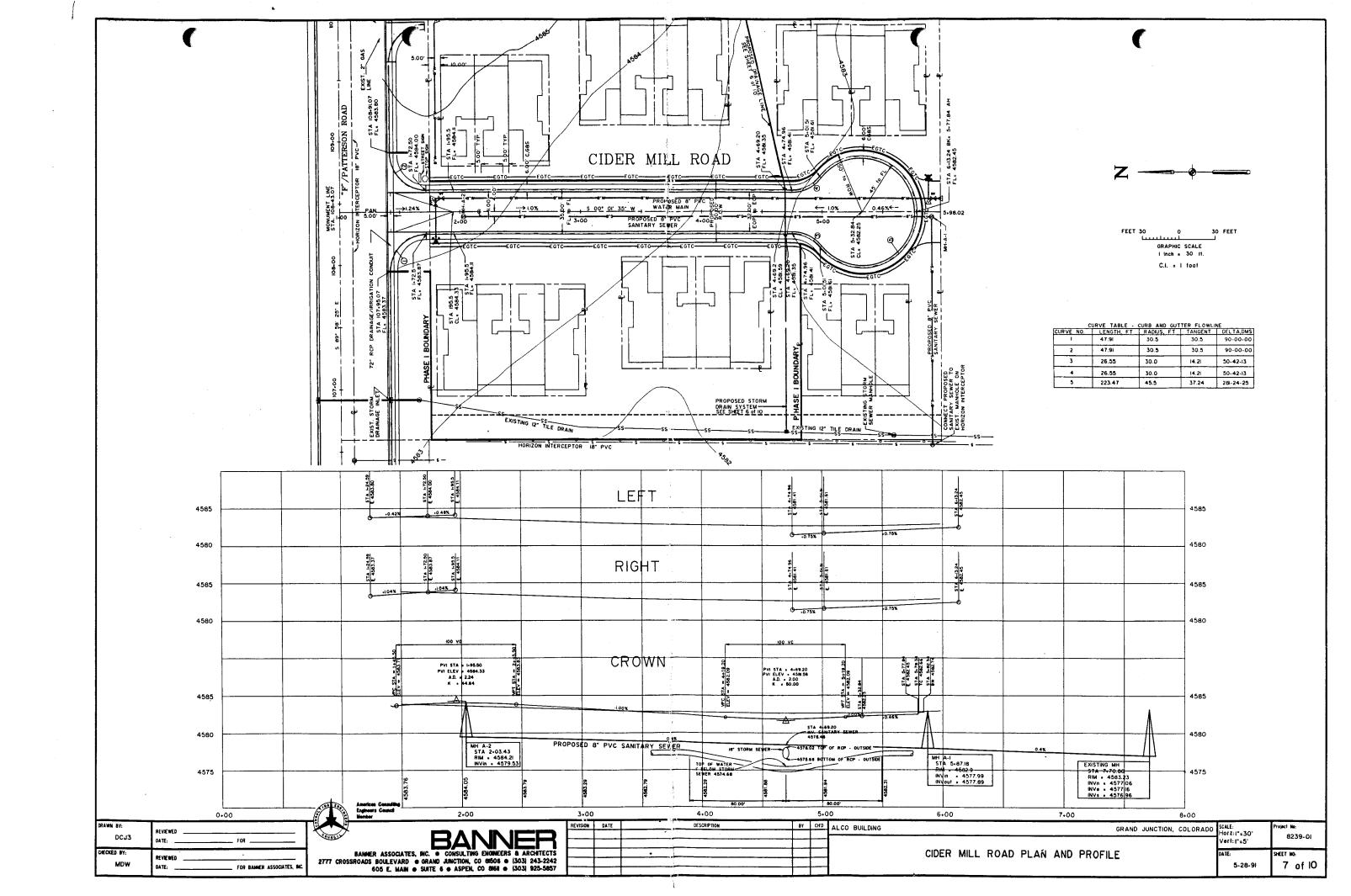
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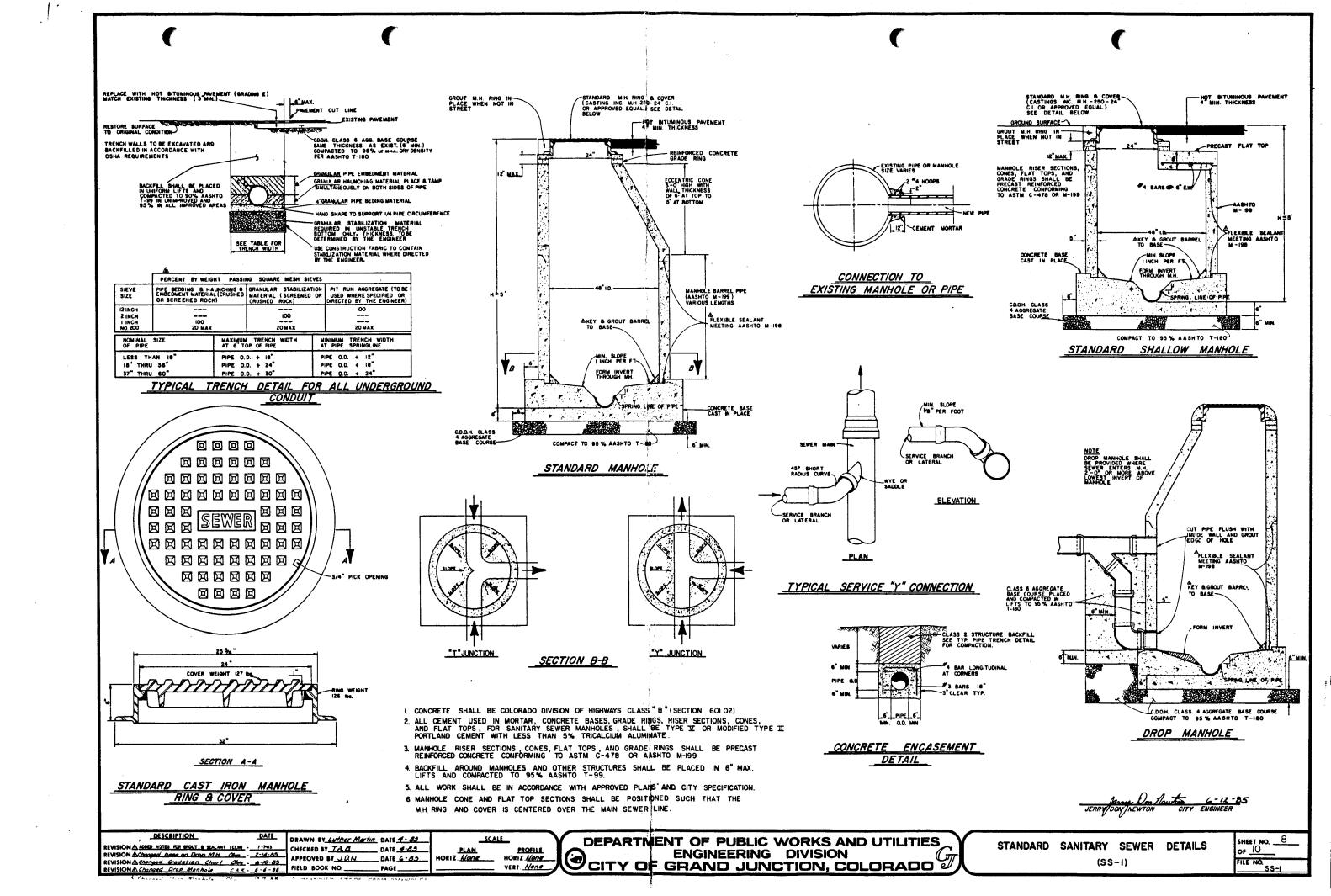
GRAND JUNCTION, COLORADO

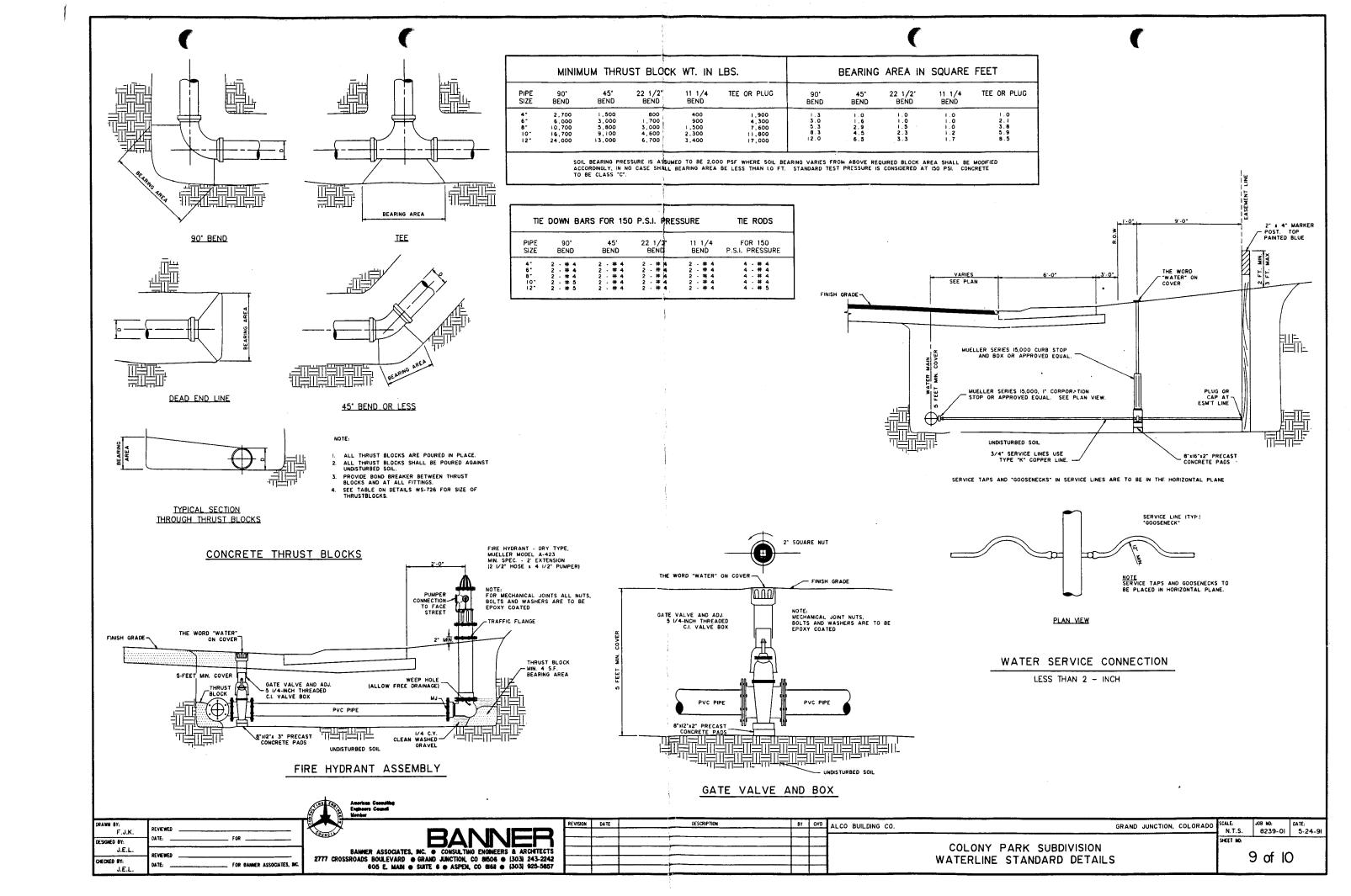
SCALE: JOB NO: DATE: N.T.S. 8239-01 5-23-91

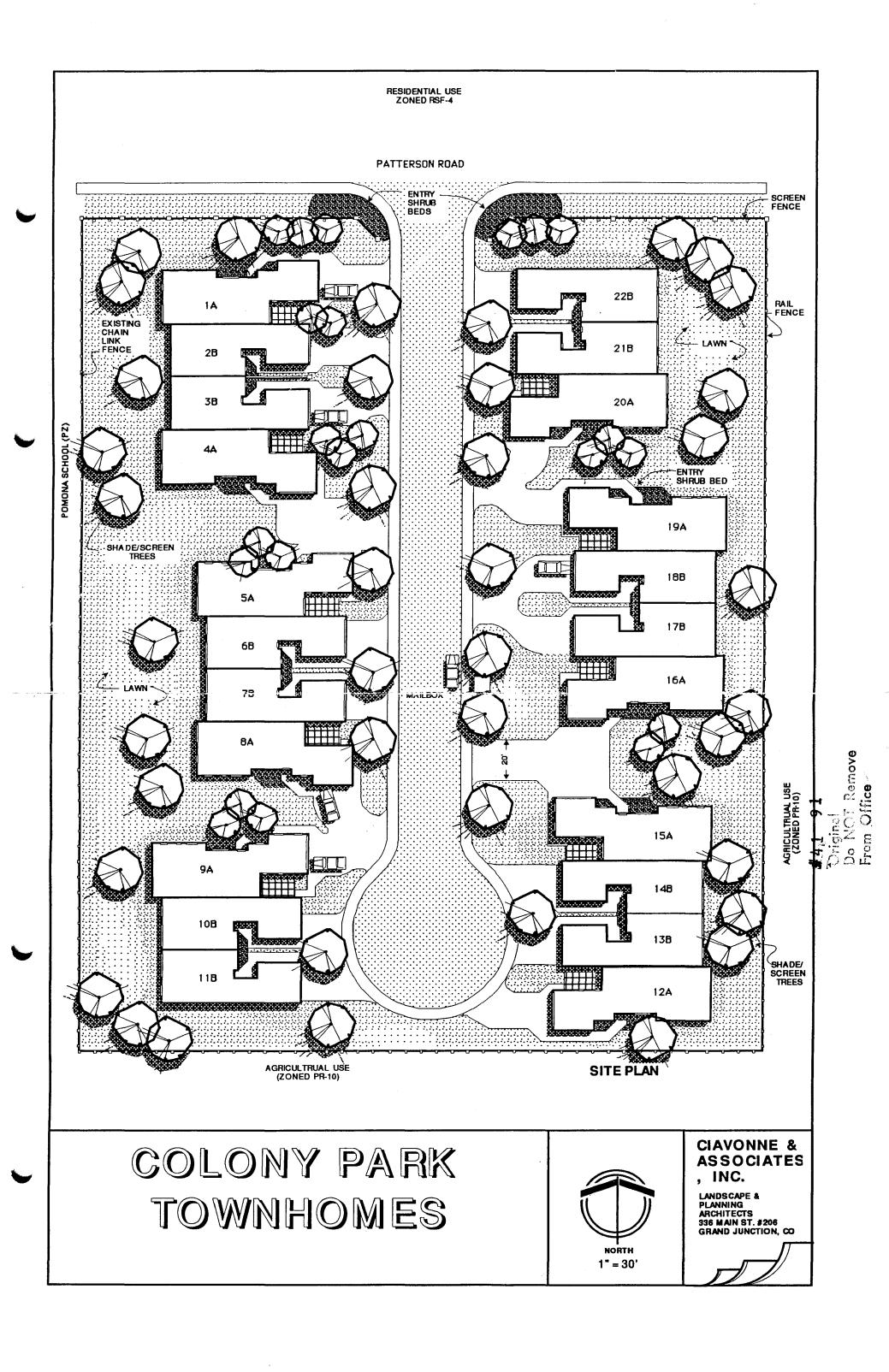
4 of 10











BOOK 1898 PAGE 275

AVIGATION EASEMENT

1601505 10:56 AM 05/06/92 MESA CO.CLK & REC Mesa County Co DOC EXEMPT

WHEREAS, Grantee is the owner and operator of Walker Field Airport situated in the County of Mesa, State of Colorado, and in close proximity to the land of Grantor, and Grantee desires to obtain and preserve for the use and benefit of the public a right of free and unobstructed flight for aircraft landing upon, taking off from, or maneuvering about said airport; and

WHEREAS, Grantor is the owner in fee simple of that certain parcel of land situated in the County of Mesa, State of Colorado, to wit:

SEE ATTACHED DESCRIPTION: Exhibit A

hereinafter, GRANTOR;

1

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the Grantor, for himself, his heirs, administrators, executors, successors and assigns, does hereby grant, bargain, sell and convey unto the Grantee, its successors and assigns, for the use and benefit of the public, an easement and right of way appurtenant to Walker Field Airport, for the passage of all aircraft ("aircraft" being defined for the purposes of this instrument as any device known or hereafter invented, used or designed for navigation or flight in the air) by whomsoever owned and operated, in the navigable airspace above the surface of Grantor's Property to an infinite height above said Grantor's property, together with the right to cause in said airspace such noise and vibrations, smoke, fumes, glare, dust, fuel particles and all other effects that may be caused by the normal operation of aircraft landing at or taking off from or operating at or on said Walker Field Airport, and Grantor hereby waives, remises and releases any right or cause of action which Grantor now has or which Grantor may have in the future against Grantee, its successors and assigns, due to such noise, vibrations, smoke, fumes, glare, dust, fuel particles and all other effects caused by the normal operation of such aircraft.

FURTHER, Grantor hereby covenants, for and during the life of this easement, that Grantor:

(a) shall not hereafter construct, permit or suffer to maintain upon said land any obstruction that extends into navigable airspace required for use of said airport runway surfaces; (Navigable airspace is defined for the purpose of this instrument

as airspace at and above the minimum flight altitudes, including take off and landing, as prescribed in Federal Aviation Administration Federal Air Regulations Part 91, and as such regulations are amended.)

(b) shall not hereafter use or permit or suffer use of said land in such a manner as to create electrical or electronic interference with radio communication or radar operation between the installation upon Walker Field Airport and aircraft, or to make it difficult for flyers to distinguish between airport lights and others or to result in glare in the eyes of flyers using the said airport, or to impair visibility in the vicinity of the airport, or otherwise to endanger the landing, taking off or maneuvering of aircraft.

Grantor agrees the aforesaid covenants and agreements shall run with the land for the benefit of Grantee, its successors and assigns, until said airport shall be abandoned and shall cease to be used for public airport purposes.

IN WITNESS WHEREOF, the Grantor has/hereunto set his hand and seal on this 1 day of (Title)

STATE OF COLORADO) ss.

COUNTY OF MESA)

The foregoing instrument was acknowledged before me this 17TH day of A.D. 1991, by

My Commission expires: Nov 1, 1991, by

Notary Public 1980

EXHIBIT A Avigation Easement for Ptarmigan Ridge Filing 2

A parcel of land situated in the NWI/4 Section 1, Township 1 South, Range 1 West of the Ute Meridian, Grand Junction, Colorado

A parcel of land situated in the NW1/4 Section 1, Township 1 South, Range 1 West of the Ute Meridian, Grand Junction, Colorado being described as follows:

Considering the East line of the NW1/4 Section 1, T1S, R1W, U.M. to bear S00°02'05"W and all bearings contained herein to be relative thereto: Beginning at the SW corner of the SE1/4 NW1/4 Section 1, Township 1 South, Range 1 West, Ute Meridian; thence N89°49'54"W 213.00 feet; thence N00°02'34"E 596.01 feet; thence N90°00'00"E 146.01 feet; thence 19.17 feet along the arc of a curve to the right with a radius of 1001.78 feet and whose chord bears \$12'46'48"E 19.17 feet; thence 51.51' feet along the arc of a curve to the right with a radius of 532.30 feet and whose chord bears \$10'33'22"E 51.49 feet; thence N8272'58"E 44.00 feet; thence 55.77 feet along the arc of a curve the left with a radius of 576.30 feet and whose chord bears N10'33'22"W 55.75 feet; thence \$55.77 feet along the arc of a curve to the right with a radius of 957.78 feet and whose chord bears N10'33'22"W 55.75 feet; thence \$89'57'26"E 116.82 feet; thence \$83'47'22"E 139.61 feet; thence \$6872'49"E 68.57 feet; thence \$11'27'18"W 44.13 feet; thence \$500'02'34"W 54.13 feet; thence \$59'44'13"W 47.42 feet; thence \$45'46'57"W 103.41 feet to the NW corner of Lot 2 Spomer Subdivision; thence \$00'02'34"W 394.82 feet; thence N89'49'58"W 167.00 feet to the point of beginning, containing 5.701 Acres as described.