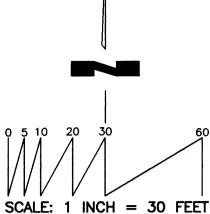


INSPECTOR

A.C.E./FIELD



### **LEGEND**

-5565 - EXISTING INDEX CONTOURS ● 5' INTERVALS

EXISTING INTERMEDIATE CONTOURS • 1' INTERVALS

-65 PROPOSED CONTOURS • 1.0' INTERVALS

**EXISTING SPOT ELEVATION** PROPOSED SPOT ELEVATION

PROPOSED CONCRETE SURFACING

PROPOSED BUILDINGS

PROPOSED RETAINING WALL

PROPOSED CMU WALL

PERIMETER CANALE LOCATIONS PLACE CONCRETE SPLASH BLOCK FLUSH TO GRADE AT LIP BENEATH ALL CANALES DRAINING TO NON-PAVED SURFACES

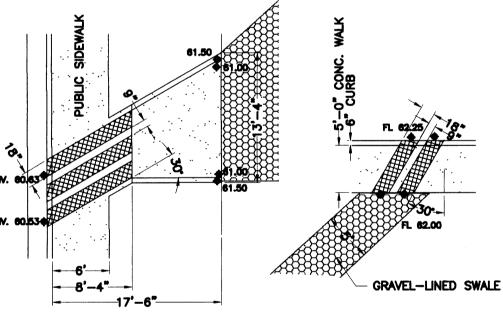
GRAVEL LINING HOLD 5' WIDTH. SWALES MAY BE MEANDERED FOR SOFTER LANDSCAPING EFFECT.

#### BENCH MARK

ACS STA 14-H21 SET ON SSW CURB RETURN, INTERSECTION OF CANDELARIA RD. AND MORRIS STREET, NE ELEV. 5568.41

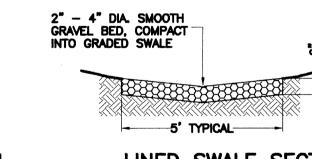
### T.B.M.

MARK PAINTED ON TOP OF CURB, ADJ. TO NW PROPERTY CORNER, MORRIS ST.



SIDEWALK CULVERT LAYOUTS

6X6/10-10 WWM 7 6"-- VARIES -- 6"



SPILLWAY SECTION

LINED SWALE SECTION

### EXISTING ON-SITE CONDITIONS

SURFACE TREATMENT BREAKDOWN IS 7% B, 79% C AND 14% D.

SITE IS A PARTIALLY DEVELOPED TRACT, THE NORTHEASTERLY PORTION OF WHICH IS OCCUPIED BY AN EXISTING RETAIL STORE AND PARKING LOT. REMAINDER IS VACANT BUT HAS BEEN IN USE FOR A FAST—FOOD RESTAURANT (SINCE DEMOLISHED). CHARACTER OF SITE MAY BE BEST DESCRIBED AS WELL—COMPACTED BY VEHICULAR AND PAST CONSTRUCTION ACTIVITY. EXCEPTING THE EXTREME SOUTHEASTERLY CORRESPONDED FOR THIS SITE, VEGETATION IS NEGLIGIBLE. THERE IS NO FORMAL LANDSCAPING ON THIS SITE. EXISTING SLOPE IS 2% FROM NORTHEAST TO SOUTHWEST CORNER.

TOTAL AREA OF SITE: 2.54 ACRES.

#### PROPOSED DEVELOPMENT

SINGLE STORY PRIVATE SCHOOL BUILDING, ADJOINING PLAYGROUND, ASPHALT—SURFACED DRIVE AND PARKING AREAS WITH CONCRETE HEADER CURBING AS SHOWN, SIDEWALKS AND LANDSCAPE AREAS. EXISTING RETAIL BUILDING AND PARKING LOT TO NORTH OF IT IS TO REMAIN IN PLACE, UNALTERED.

#### OFFSITE FLOWS

RUNOFF FROM AJOINING AREAS ENTERS SITE AS SHEET FLOWS. THERE ARE NO DISCERNIBLE ERODED FLOWLINES ONTO OR CROSSING THIS SITE.
THE ONLY CONTRIBUTORY AREA CONSISTS OF A PORTION OF ADJOINING NORTHWEST PARCEL OCCUPIED BY AN AUTOMOTIVE REPAIR SHOP AND SURROUNDING PAVED AND COMPACTED AREA. THERE IS NO LANDSCAPING ON THIS SITE.
SURFACE TREATMENT BREAKDOWN IS 46% C AND 54% D.

#### STORMWATER ROUTING

CONTRIBUTORY AREA: 0.33 ACRE.

SITE IS TO BE GRADED TO DIRECT SURFACE WATERS TO THE SOUTHEASTERLY CORNER WITH FREE DISCHARGE INTO MORRIS STREET RIGHT-OF-WAY. FLOWS FOLLOW MORRIS SOUTH 1/4 MILE TO DRAIN INTO THE A.M.A.F.C.A. PIEDRA LISA ARROYO, A CONCRETE-LINED DRAINAGE

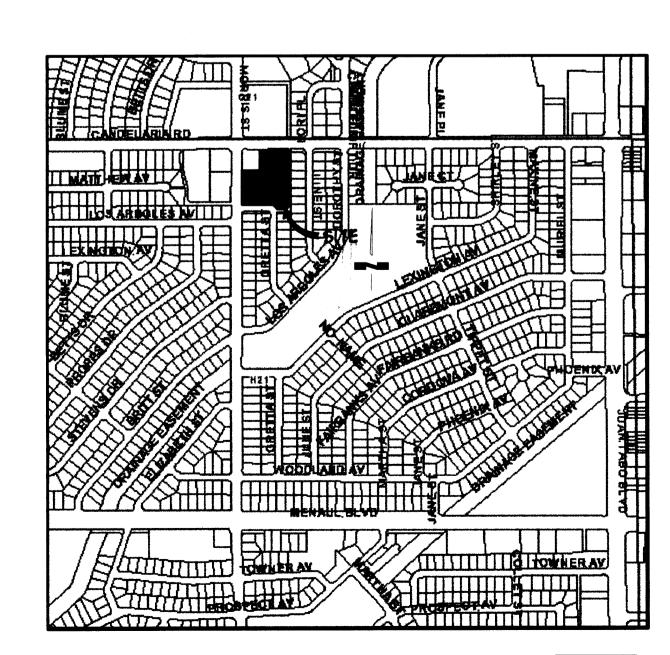
#### DRAINAGE DATA

PRECIPITAT	ION ZONE 4 CONDITIONS	•					
CONDITION	STORM TE RETURN PERIOD	REATMENT TYPE	TREATMENT AREA(AC.)	EXCESS PRECIP	PEAK RUNOFF	RUNOFF VOLUME	RUNO RATE
	TABLE 4 YEAR			TAB.8 IN.	TAB.9 CFS/AC	CU.FT.	CFS
EXISTING	100	В	0.18	1.08	2.92	706	0.53
	100	C	2.01	1.46	3.73	10652	7.50
	100	D	0.35	2.64	5.25	3354	1.84
EXISTING	10	В	0.18	0.46	1.45	300	0.26
	10	C	2.01	0.73	2.26	5326	4.54
	10	D	0.35	1.69	3.57	2147	1.25
TOTAL	100		2.54			14712	9.87
	10		2.54			7773	6.0
, DEVELOPED	100	B	0.59	1.08	2.92	2313	1.73
DEVELOPED	100	Č	0.54	1.46	3.73	2862	2.01
	100	Ď	1.41	2.64	5.25	13512	7.40
DEVELOPED	10	В	0.59	0.46	1.45	985	0.86
	10	Č	0.54	0.73	2.26	1431	1.22
	10	D	1.41	1.69	3.57	8650	5.03
TOTAL	100		2.54			18687	11.14
	10		2.54			11066	7.11

1. A flow rate increase of 1.27 CFS and 1.06 CFS for the 100—year and 10—year storms, respectively, may be expected. The 6—hour runoff volumes will increase by 3975 cubic feet for the 100—year storm and 3293 cubic feet for the 10—year

2. Runoff from this site discharges into Morris Street, NE. Street lies within Zone A-0, listed depth of 1 foot. Elevation of building pad required to be two feet (2') higher than highest adjacent flowline elevation on Morris St.

3. This site accepts all offsite flows contributory to it.



VICINITY MAP

NO SCALE

H-21

**ARCHITECTS - PLANNERS - AIA** 

525 SAN PEDRO NE - SUITE 110

505-255-6400 505-268-6954 FAX

ALBUQUERQUE, NM 87108

ARCHITECT

THE

Telck-Hensley Engineering Group



PROJECT TITLE

REVISIONS

MK DATE DESCRIPTION

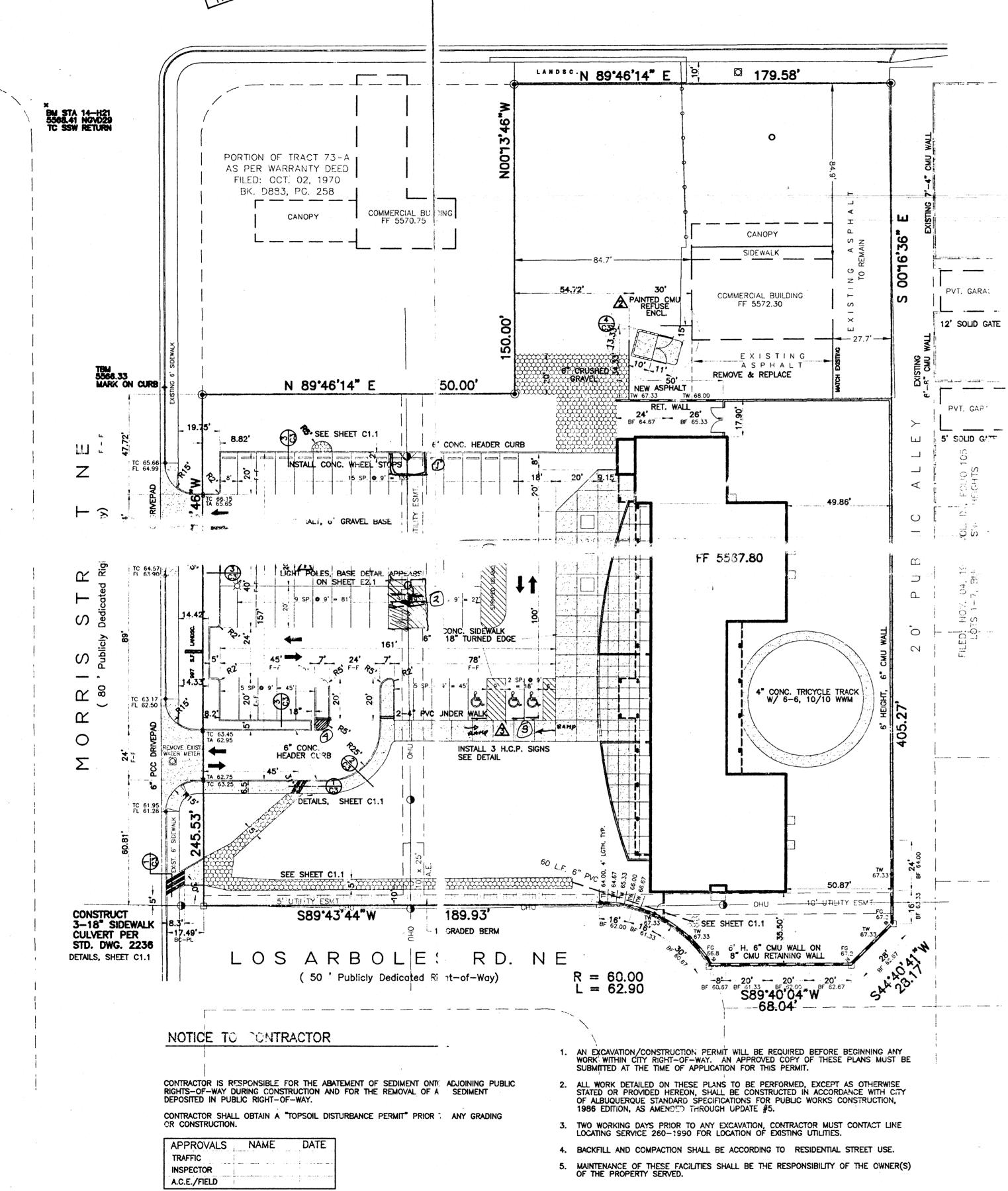
DRAWN BY: CHECKED BY EWK RH

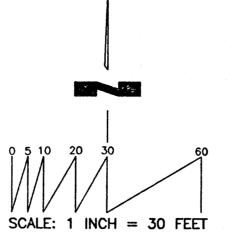
JOB NUMBER: XX.XX DATE:

JANUARY 25, 2003 SHEET NO

C-1,1

### CANDELARIA ROAD NE ( 93 ' Publicly Dedicated Right-of-Way)





LEGEND

-5565- EXISTING INDEX CONTOURS • 5' INTERVALS --- EXISTING INTERMEDIATE CONTOURS • 1' INTERVALS PROPOSED CONTOURS • 1.0' INTERVALS

EXISTING SPOT ELEVATION

PROPOSED CONCRETE SURFACING

\_EXISTING CHAIN LINK FENCE

PROPOSED BUILDINGS

GRAVEL LINING HOLD 5' WIDTH. SWALES MAY BE MEANDERED FOR SOFTER LANDSCAPING EFFECT.

- HANDICAP PARKING SIGN

SIGN DETAIL, NO SCALE

FIN. GRADE 8" CMU RETAINING WALL FILL ALL CELLS W/CONCRETE VERT. REINF. 'V' 9 GA. DUR-O-WAL EA. 3 RD CS. 1 CU.FT.GRAVEL, WRAP W/FILTER FABRIC 4"D. WEEPS @10'O.C.

6X8X16 CMU

12X8X16 PILASTERS @12'O.C. 2-#4 REBAR VERT., FILL ALL CELLS W/CONCRETE

CAP BLOCK

'FT' REINF.

SET ON SSW CURB RETURN, INTERSECTION OF CANDELARIA RD. AND MORRIS STREET, NE ELEV. 5568.41

BENCH MARK

MARK PAINTED ON TOP OF CURB, ADJ. TO NW PROPERTY CORNER, MORRIS ST. ELEV. 5566.33

SUPPLEMENTAL NOTES

VARIATIONS!

di backfill material shall be clean fill w/o organic material of any kind. Clods or hard tumps of earth greater than 6" shall be broken up prior to compaction. Rocks, broken concrete or other solid materials which are larger than 4 inches shall not

The upper 6" of the original ground area upon which fills are to be constructed shall be impacted to a density of not less than 90 percent of maximum desith as determined by IN D 1557.

sterial cut out shall be recompacted along with the new embankment material. Fill shall a compacted in 8" lifts, using water to obtain optimum moisture content. If exterior concrete or asphalt demolition shall extend one foot beyond the excavation to spose an embankment.

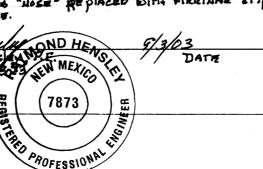
new exterior concrete shall be broom finished, 3/4" aggragate, 3000 psi concrete ith air—entrainment (4—8%). Chemical add mixtures shall not contain more than 0.035% shortde by weight.

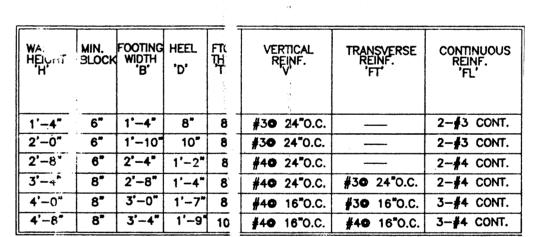
concrete slabs shall contain 6x6 10-10 welded wire fabric.

Il concrete demolition shall be edged with a concrete saw. Edges shall be bonded and raled. Provide construction joints every six feet and match existing expansion joints. covide expansion joints every twenty-four feet (24') in new concrete walk and curb

ENGINEER'S CERTIFICATION INSPECTMENT SITE DURING THE WEEK OF AUGUST 11, 2003 THE INSTALLATION OF SITE IMPROVEMENTS ARE IN SUBSTANTIAL COMPLIANCE WITH THE TRAFFIC PLAN, DIRMINAGE PLAN & DRAINAGE REPORT

(1) REMOVED PARKING SPACES & ADDIED CHER AROUND POLE (2) ADDED BUMPERS AROUND POLE
(3) RANDED SIDEMANN DOWN TO ASPHAIT & ADDED BUMPERS AT HANDICAPPED SPACES
(4) REMOVED CHIEB "HOSE" REPLACED BUTH FIRELANE STIPE & PAINTED CHIES



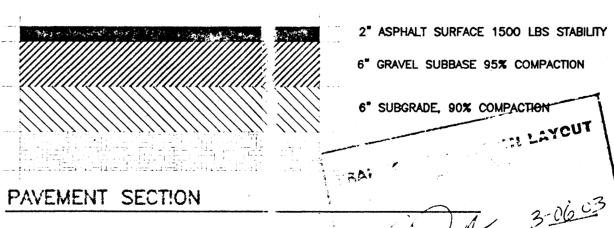




CONTRACTOR SHALL BE RESPONS BLE FOR SITE PREPARATION INCLUDING EXCAVATION COMPACTION AND BACKFILL
 REINFORCING BARS SHALL HAVE TANDARD DEFORMATIONS AND A YIELD STRENGTH OF 40,000 PSI

3. CONCRETE STRENGTH (f'c) 2500 'SI 9 30 DAYS

4. ALTERNATE VERTICAL REINFORCING BARS MAY BE TERMINATED AT MID-HEIGHT OF RETAINER AS MEASURED FROM LC ER FINISH GRADE.

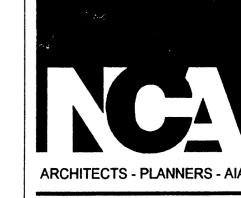


MAR 0 4 2003

HYDROLOGY SECTION

HYDROLOGY SECTION

SEP 0 5 2003



525 SAN PEDRO NE - SUITE 110 ALBUQUERQUE, NM 87108 505-255-6400 505-268-6954 FAX

ARCHITECT

THE group

Telck-Hensley Engineering Group

CONSULTANT



SE 73

SUNS

REVISIONS 1 2/19/03 ADDED LIGHT POLES 2 2/19/03 CMU TRASH ENCL. 3/1/03 DIMENSION, SIGNAGE

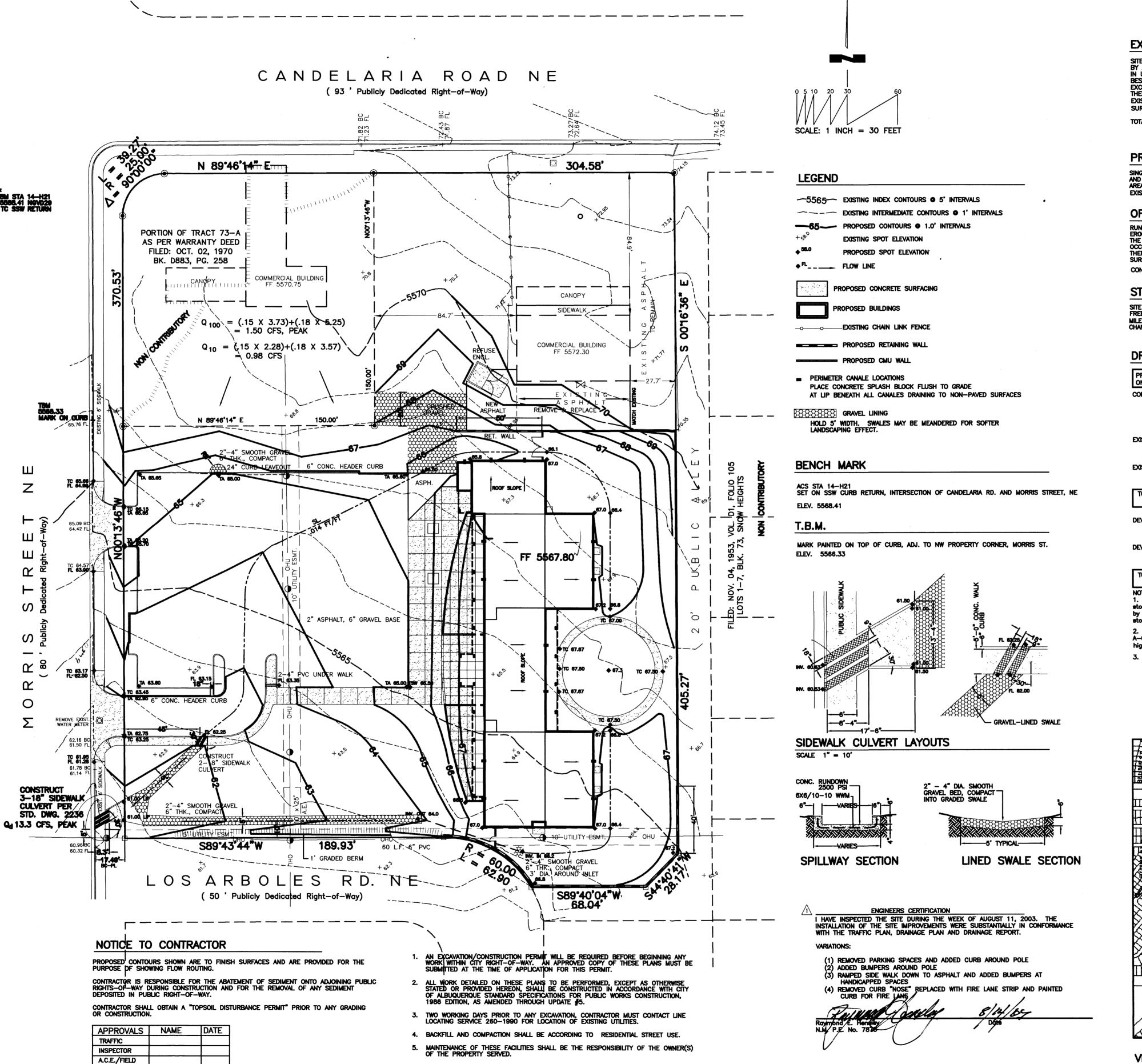
MK DATE DESCRIPTION DRAWN BY: CHECKED BY:

EWK RH JOB NUMBER:

02-209 DATE: JANUARY 30, 2003

SHEET NO

**C2.1** 



#### EXISTING ON-SITE CONDITIONS

SITE IS A PARTIALLY DEVELOPED TRACT, THE NORTHEASTERLY PORTION OF WHICH IS OCCUPIED BY AN EXISTING RETAIL STORE AND PARKING LOT. REMAINDER IS VACANT BUT HAS BEEN IN USE FOR A FAST—FOOD RESTAURANT (SINCE DEMOLISHED). CHARACTER OF SITE MAY BE BEST DESCRIBED AS WELL—COMPACTED BY VEHICULAR AND PAST CONSTRUCTION ACTIVITY. EXCEPTING THE EXTREME SOUTHEASTERLY CORNER OF THIS SITE, VEGETATION IS NEGLIGIBLE. THERE IS NO FORMAL LANDSCAPING ON THIS SITE. EXISTING SLOPE IS 2% FROM NORTHEAST TO SOUTHWEST CORNER. SURFACE TREATMENT BREAKDOWN IS 7% B, 79% C AND 14% D.

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TOTAL AREA OF SITE: 2.54 ACRES.

#### PROPOSED DEVELOPMENT

SINGLE STORY PRIVATE SCHOOL BUILDING, ADJOINING PLAYGROUND, ASPHALT—SURFACED DRIVE AND PARKING AREAS WITH CONCRETE HEADER CURBING AS SHOWN, SIDEWALKS AND LANDSCAPE AREAS. EXISTING RETAIL BUILDING AND PARKING LOT TO NORTH OF IT IS TO REMAIN IN PLACE, UNALTERED.

#### OFFSITE FLOWS

RUNOFF FROM AJOINING AREAS ENTERS SITE AS SHEET FLOWS. THERE ARE NO DISCERNIBLE ERODED FLOWLINES ONTO OR CROSSING THIS SITE.
THE ONLY CONTRIBUTORY AREA CONSISTS OF A PORTION OF ADJOINING NORTHWEST PARCEL OCCUPIED BY AN AUTOMOTIVE REPAIR SHOP AND SURROUNDING PAVED AND COMPACTED AREA. THERE IS NO LANDSCAPING ON THIS SITE.
SURFACE TREATMENT BREAKDOWN IS 46% C AND 54% D. CONTRIBUTORY AREA: 0.33 ACRE.

#### STORMWATER ROUTING

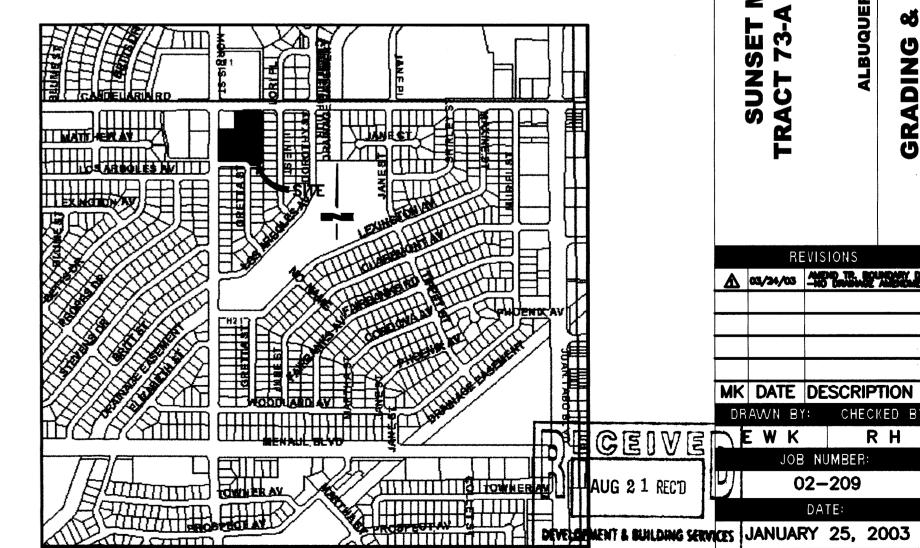
SITE IS TO BE GRADED TO DIRECT SURFACE WATERS TO THE SOUTHEASTERLY CORNER WITH FREE DISCHARGE INTO MORRIS STREET RIGHT-OF-WAY. FLOWS FOLLOW MORRIS SOUTH 1/4 MILE TO DRAIN INTO THE A.M.A.F.C.A. PIEDRA LISA ARROYO, A CONCRETE—LINED DRAINAGE

#### DRAINAGE DATA

CONDITION		TREATMENT	TREATMENT	EXCESS	PEAK	RUNOFF	RUNOF
	RETURN PERIOD	TYPE	AREA(AC.)	PRECIP	RUNOFF	VOLUME	RATE
	TABLE 4			TAB.8	TAB.9		
	YEAR			IN.	CFS/AC	CU.FT.	CFS
EXISTING	100	В	0.18	1.08	2.92	706	0.53
	100	C	2.01	1. <del>4</del> 6	3.73	10652	7.50
	100	D	0.35	2.64	5.25	3354	1.84
EXISTING	10	B	0.18	0.46	1.45	300	0.26
	10		2.01	0.73	2.26	5326	4.54
	10	D	0.35	1.69	3.57	21 <del>4</del> 7	1.25
TOTAL	100		2.54			14712	9.87
	10		2.54			7773	6.05
DEVELOPED	100	В	0.59	1.08	2.92	2313	1.73
	100	B	0.54	1.46	3.73	2862	2.01
	100	D	1.41	2.64	5.25	13512	7.40
DEVELOPED	10	В	0.59	0.46	1.45	985	0.86
	10	С	0.54	0.73	2.26	1431	1.22
	10	D	1.41	1.69	3.57	8650	5.03
TOTAL	100		2.54			18687	11.14
l	10		2.54			11066	7.11

1. A flow rate increase of 1.27 CFS and 1.06 CFS for the 100—year and 10—year storms, respectively, may be expected. The 6—hour runoff volumes will increase by 3975 cubic feet for the 100—year storm and 3293 cubic feet for the 10—year

3. This site accepts all offsite flows contributory to it.



VICINITY MAP

NO SCALE

H-21

525 SAN PEDRO NE - SUITE 110 ALBUQUERQUE, NM 87108 505-255-6400 505-268-6954 FAX

ARCHITECT

THE group

Telck-Hensley Engineering Group 4001 JUAN TABO NE, SUITE A ALBUQUERQUE, NEW MEXICO 87111 Phone:(505)292-3202 FAX:(505)292-3904

CONSULTANT

REVISIONS A 03/24/03 AMEND TR BOUNDARY DATA

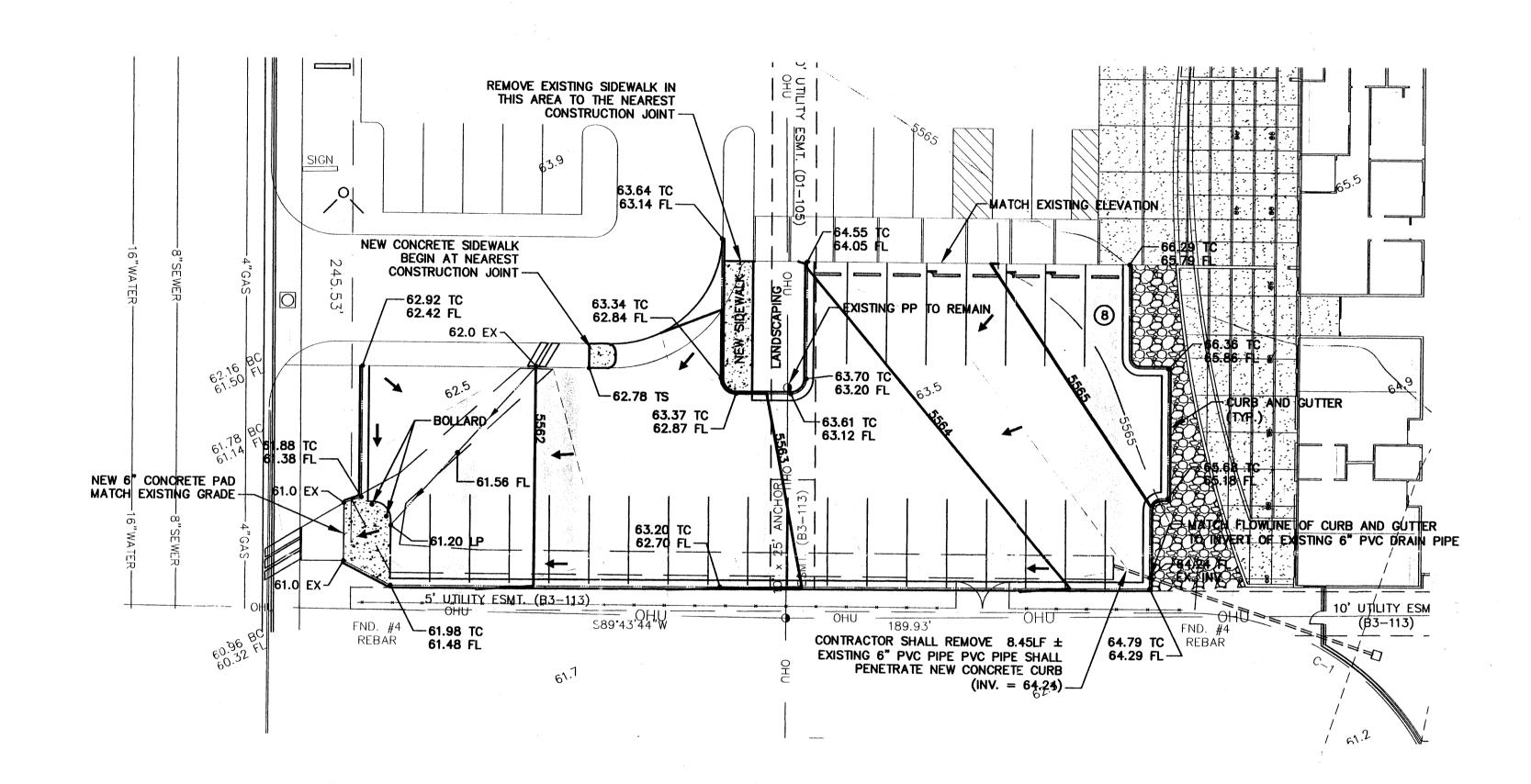
SUNS

DRAWN BY: CHECKED BY: CEIVE DEWK RHJOB NUMBER: 02-209

MK DATE DESCRIPTION

SHEET NO

**C1.1** 



## DRAINAGE DATA

### HYDROLOGY

	Basin	L	and Treatm	nent Facto	rs		P(360) =	
Basin	Area	Α	В	С	D	Ew	V(100)	Q(100)
	(Ac)		(Acres)	)		(in)	(af)	(cfs)
Existing (	Conditions							
Site	2.54	0.00	0.59	0.54	1.41	2.03	0.429	11.14
Proposed	d Conditions				<u> </u>			
Site	2.54	0.00	0.52	0.34	1.68	2.16	0.458	1161

### HYDROLOGY

	Basin		.and Treatr	nent Facto	rs	1	P(360) =	
Basin	Area	Α	В	С	D	Ew	V(100)	Q(100)
	(Ac)		(Acres	3)		(in)	(af)	(cfs)
Existing (	Conditions							<u> </u>
Site	2.54	0.00	0.59	0.54	1.41	1.20	0.254	7.11
Proposed	d Conditions	3				1	<u> </u>	
Site	2.54	0.00	0.52	0.34	1.68	1.31	0.277	7.52

NOTES:
A FLOW RATE INCREASE OF 0.47 CFS AND 0.41 CFS FOR THE 100-YEAR AND 10-YEAR RESPECTIVELY, MAY BE EXPECTED.

RUNOFF FROM THIS SITE DISCHARGES INTO MORRIS STREET, NE, WHICH LIES WITHIN ZONE A-O, LISTED DEPTH OF 1 FOOT.

## OFFSITE FLOWS

THIS PROJECT SITE RECEIVES OFFSITE FLOWS FROM THE PHASE I PORTION OF THE PROJECT COMPLETED IN 2002. TO BE CONSISTENT WITH PREVIOUS HYDROLOGY STUDIES FOR THIS SITE, THE HYDROLOGY FROM THE PREVIOUSLY APPROVED GRADING AND DRAINAGE PLAN WILL BE CONSIDERED (SEE ATTACHED SUPPLEMENT INFORMATION).

# EXISTING ON—SITE CONDITIONS

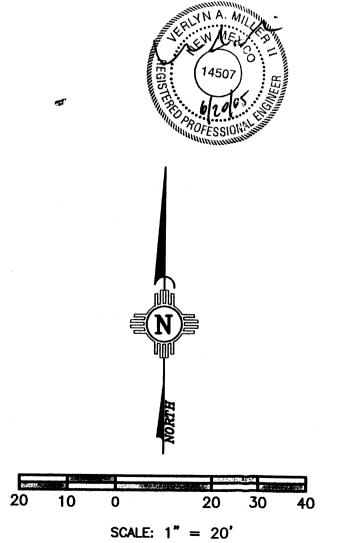
THE PROJECT SITE IS CURRENTLY UNDEVELOPED AND CONSISTS OF NATIVE GRASSES WITH SOME LANDSCAPING. THE EXISTING BUILDING AND PARKING LOT LOCATED IMMEDEATE NORTH OF THE PROJECT SITE WAS CONSTRUCTED IN 2002. THE PROJECT SITE SLOPES FROM EAST TO WEST AT APPROXIMATELY 2%. THE TOTAL AREA OF THE SITE IS 2.54 ACRES, WHICH INCLUDES THE PARKING LOT ADDITION OF 0.315 ACRES. THE LAND TREATMENTS ARE CATEGORIZED AS 0.59 B, 0.54 C, AND 1.41 D.

## PROPOSED DEVELOPMENT

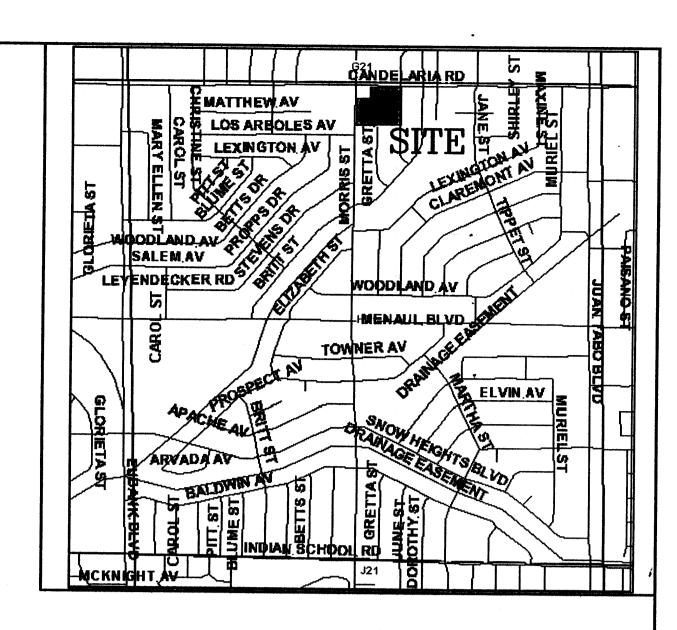
THE PROPOSED PROJECT WILL BE AN EXPANSION OF THE EXISTING PARKING LOT TO PROVIDE OVERFLOW PARKING FOR THE EXISTING DEVELOPMENT. THE TOTAL AREA OF THE PROPOSED IMPROVMENTS ARE ESTIMATED AT 0.315 ACRES. THE PROPOSED PARKING LOT ADDITION WILL CONSISTS OF A CONCRETE CURB AND GUTTER PERIMETER AND A NEW ASPHALT PAVED SURFACE. THE PARKING LOT AREA AS WELL AS RUNOFF DISCHARGING THROUGH THE EXISTING RIP RAP SWALES WILL DRAIN WEST TO THE EXISTING SIDEWALK CULVERT LOCATED AT MORRIS STREET NE. NEW SIDEWALK WILL BE ADDED AS REQUIRED. THE LAND TREATMENTS ARE CATEGORIZED AS 0.52 B, 0.34 C AND 1.68 D.

## STORMWATER ROUTING

AS PREVIOUSLY MENTIONED, ALL SITE RUNOFF AS WELL AS CONTRIBUTING OFFSITE AREAS FROM PHASE I DISCHARGE THROUGH THE EXISTING SIDEWALK CULVERT AT MORRIS STREET. FROM THERE, THE STORMWATER FLOWS ARE ROUTED THROUGH THE MORRIS STREET RIGHT-OF-WAY SOUTH FROM 1/4 MILE TO THE PIEDRA LISA ARROYO, A CONCRETE LINED DRAINAGE CHANNEL.



ONE (1') FOOT CONTROUR INTERVAL

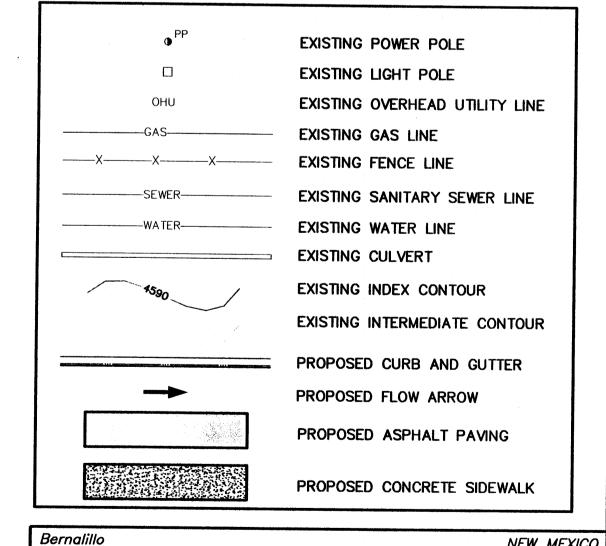


## ZONE ATLAS H-21 NOT TO SCALE

### **GENERAL NOTES:**

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- 2. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 3. CONTRACTOR SHALL OBTAIN A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO ANY GRADING OR CONSTRUCTION.
- 4. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OR EXISTING UTILITIES.
- 5. BACKFILL AND COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
- 7. ALL CONCRETE SHALL BE A MINIMUM OF 3000 P.S.I.
- 8. PROJECT BENCHMARK IS A STANDARD ACS 31/4" ALUMINUM CAP SET ON SOUTH SOUTHWEST CURB RETURN, INTERSECTION OF CANDELARIA RD. AND MORRIS STREET NE, ELEV = 5568.41 FEET
- 9. ALL EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM ASBUILT DRAWINGS PROVIDED BY OTHERS. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.

## LEGEND



GRADING and DRAINAGE PLAN

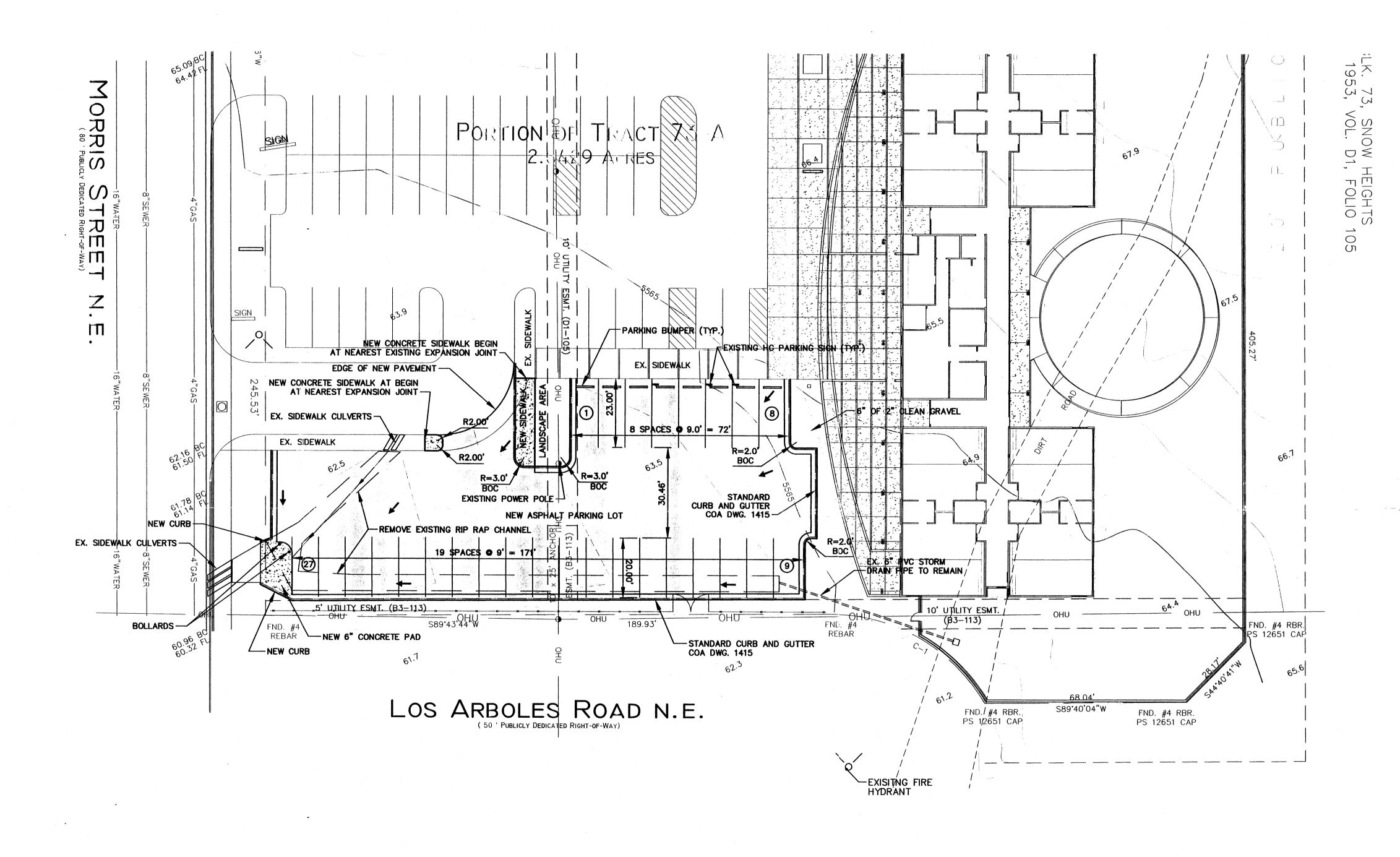
SUNSET MESA SCHOOL

MILLER ENGINEERING CONSULTANTS

P.O. BOX 520 95 HIGHWAY 344 NORTH EDGEWOOD, NM 87015 (505)286-7771 (505)286-9026 (FAX)

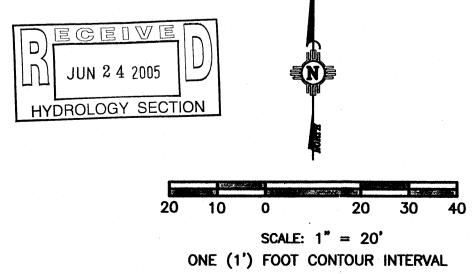
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Engineers • Planners





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Ē	EXISTING ELECTRIC BOX
W	EXISTING WATER METER
Q	EXISTING GAS VALVE
H	EXISTING WATER VALVE
oPP	EXISTING POWER POLE
o <sup>LP</sup>	EXISTING LIGHT POLE
Ū	EXISTING TELEPHONE PEDESTAL
OCLEAN	EXISTING SANITARY SEWER CLEAN OUT
	SANITARY SEWER MANHOLE
GAS	EXISTING GAS LINE
	EXISTING FENCE LINE
SE.WER	EXISTING SANITARY SEWER LINE
WA TER	EXISTING WATER LINE
	EXISTING CULVERT
1590	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED CURB AND GUTTER
-	PROPOSED FLOW ARROW
	PROPOSED ASPHALT PAVING
	PROPOSED ASPHALT PAVING



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			SUNSE	T MESA SCH	100L	· · · · · · · · · · · · · · · · · · ·	
	MILLE	R ENG	INEER	ING CONSUL	TANT	<u>s</u>	P.O. BOX 520 95 HIGHWAY 344 NORTH
	MILLE	R ENG		ING CONSUL Engineers • F			P.O. BOX 520 95 HIGHWAY 344 NORTH EDGEWOOD, NM 87015 (505)286-7771 (505)286-9026 (FAX)
Designed	MILLE:						95 HIGHWAY 344 NORTH EDGEWOOD, NM 87015 (505)286-7771