

CITY OF ALBUQUERQUE



May 20, 2015

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

**RE: Noah's Event Center
Vista Fuentes Rd NW
Grading and Drainage Plan
Engineers Stamp Date 4/14/15 (C12D003B4)**

Dear Mr. Soule,

Based upon the information provided in your submittal received 4/15/15, this plan is approved for Grading Permit and Building Permit.

Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

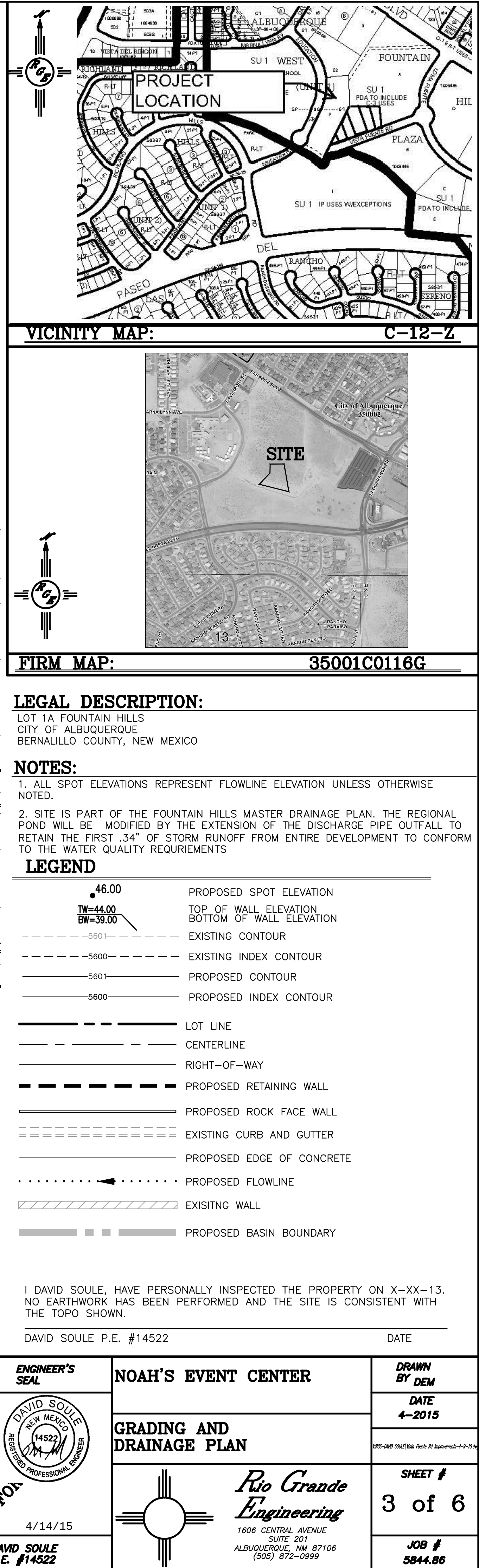
Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: File





ABCWUA / CITY OF ALBUQUERQUE
NEW MEXICO
FEBRUARY 2015

RGE

1. TITLE SHEET
2. PLAT
3. GRADING AND DRAINAGE PLAN (FOR REFERENCE ONLY)
4. VISTA FUENTE ROAD PAVING IMPROVEMENTS
5. VISTA FUENTE ROAD UTILITY IMPROVEMENTS
6. DETAILS

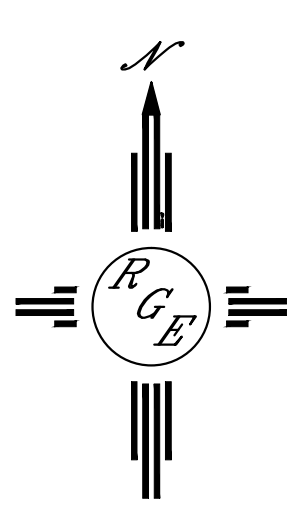
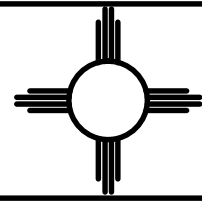


- 
- Rio Grande
Engineering*
1606 CENTRAL AVE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

[illegible]

DRB#1003445

YOU ARE PROVIDING A COPY TO PUT IN PLANSET

 SCALE: HORIZ. 1"=50' VERT. 1"= 5'		 Rio Grande Engineering 1808 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 273-0288		BERNALILLO COUNTY PUBLIC WORKS DIVISION ENGINEERING GROUP		TITLE: VISTA FUENTE ROAD IMPROVEMENTS PAVING IMPROVEMENTS PLAT		CITY PROJECT NO. 5844.86		ZONE MAP NO. C-12-Z		SHEET 2 OF 6	
FOR INFORMATION ONLY		DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE		MO./DAY/YR.		MO./DAY/YR.			
DESIGNED BY: DEM		DRAWN BY: DEM		DRAWN NAME: VISTA FUENTE RD IMPROVEMENTS.dwg		JOB NO.: -----		CHECKED BY: DS		DATE: 9-14			
REMARKS REVISIONS		BY		ENGINEER'S SEAL		FIELD NOTES		ACCS		BENCH MARKS			
NO.		DATE		NO.		BY		NO.		DATE			
DESIGNED BY: DEM		DRAWN BY: DEM		DRAWN NAME: VISTA FUENTE RD IMPROVEMENTS.dwg		JOB NO.: -----		CHECKED BY: DS		DATE: 9-14			
REMARKS REVISIONS		BY		ENGINEER'S SEAL		FIELD NOTES		ACCS		BENCH MARKS			
NO.		DATE		NO.		BY		NO.		DATE			
DESIGNED BY: DEM		DRAWN BY: DEM		DRAWN NAME: VISTA FUENTE RD IMPROVEMENTS.dwg		JOB NO.: -----		CHECKED BY: DS		DATE: 9-14			
REMARKS REVISIONS		BY		ENGINEER'S SEAL		FIELD NOTES		ACCS		BENCH MARKS			
NO.		DATE		NO.		BY		NO.		DATE			
DESIGNED BY: DEM		DRAWN BY: DEM		DRAWN NAME: VISTA FUENTE RD IMPROVEMENTS.dwg		JOB NO.: -----		CHECKED BY: DS		DATE: 9-14			
REMARKS REVISIONS		BY		ENGINEER'S SEAL		FIELD NOTES		ACCS		BENCH MARKS			
NO.		DATE		NO.		BY		NO.		DATE			
DESIGNED BY: DEM		DRAWN BY: DEM		DRAWN NAME: VISTA FUENTE RD IMPROVEMENTS.dwg		JOB NO.: -----		CHECKED BY: DS		DATE: 9-14			
REMARKS REVISIONS		BY		ENGINEER'S SEAL		FIELD NOTES		ACCS		BENCH MARKS			

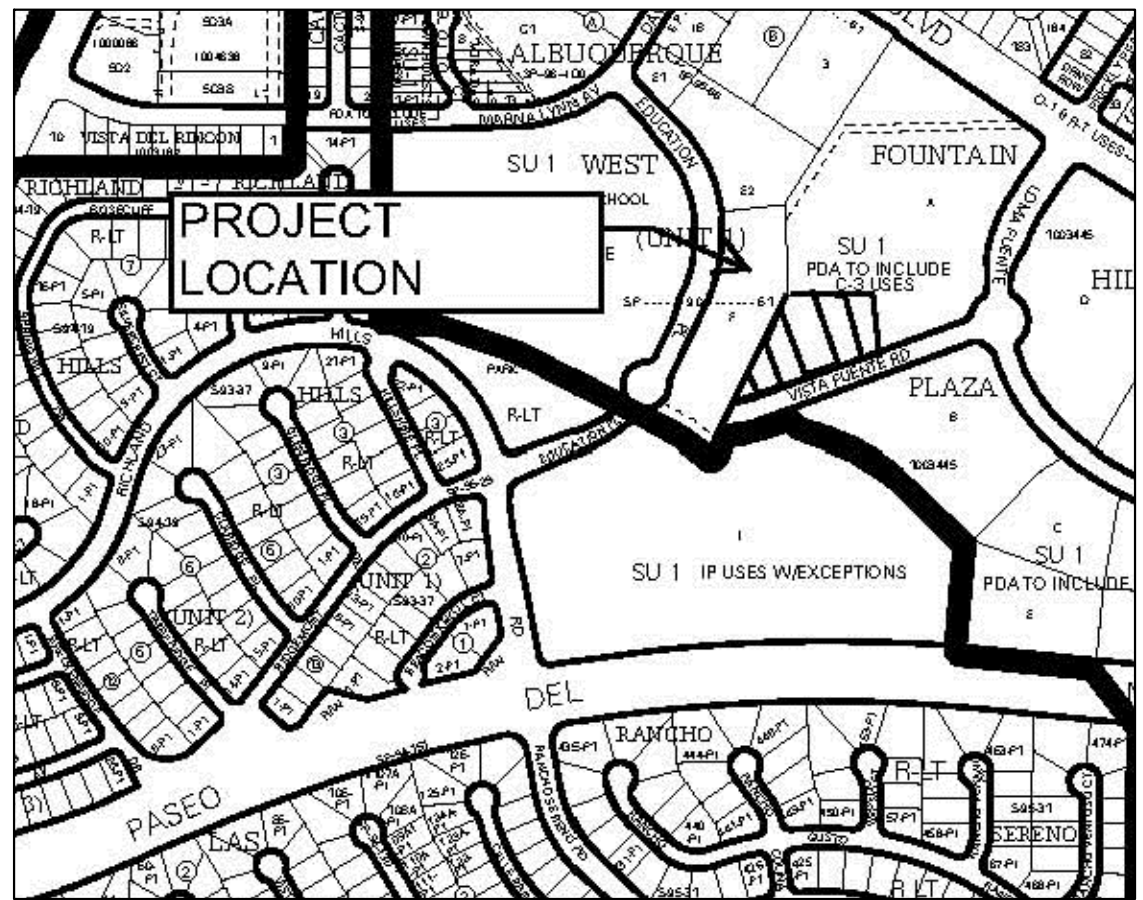
CAUTION:
EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.

DRAINAGE NARRATIVE:

THIS SITE IS PART OF THE FOUNTAIN HILLS DRAINAGE
MASTER PLAN. THIS SITE IS ALLOWED FREE DISCHARGE TO THE
ADJACENT ROADWAY. THE DESIGN OF THIS SITE WILL ACCOUNT FOR
WATER QUALITY AS REQUIRED BY CITY ORDINANCE

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP: C-12-Z



FIRM MAP: 35001C0116G

LEGAL DESCRIPTION:

LOT 1A FOUNTAIN HILLS
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. SITE IS PART OF THE FOUNTAIN HILLS MASTER DRAINAGE PLAN. THE REGIONAL POND WILL BE MODIFIED BY THE EXTENSION OF THE DISCHARGE PIPE OUTFALL TO RETAIN THE FIRST .34" OF STORM RUNOFF FROM ENTIRE DEVELOPMENT TO CONFORM TO THE WATER QUALITY REQUIREMENTS

LEGEND

- 46.00 PROPOSED SPOT ELEVATION
- TW=44.00 TOP OF WALL ELEVATION
- BW=39.00 BOTTOM OF WALL ELEVATION
- 5601- EXISTING CONTOUR
- 5600- EXISTING INDEX CONTOUR
- 5601- PROPOSED CONTOUR
- 5600- PROPOSED INDEX CONTOUR
- LOT LINE
- CENTERLINE
- RIGHT-OF-WAY
- PROPOSED RETAINING WALL
- PROPOSED ROCK FACE WALL
- EXISTING CURB AND GUTTER
- PROPOSED EDGE OF CONCRETE
- PROPOSED FLOWLINE
- EXISTING WALL
- PROPOSED BASIN BOUNDARY

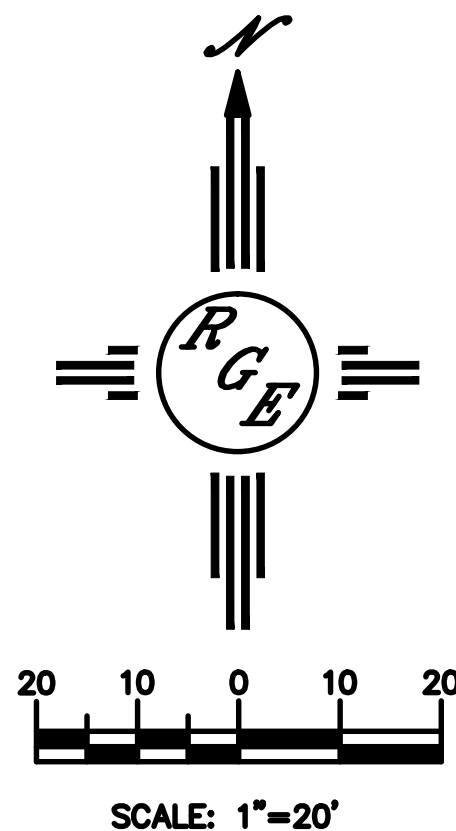
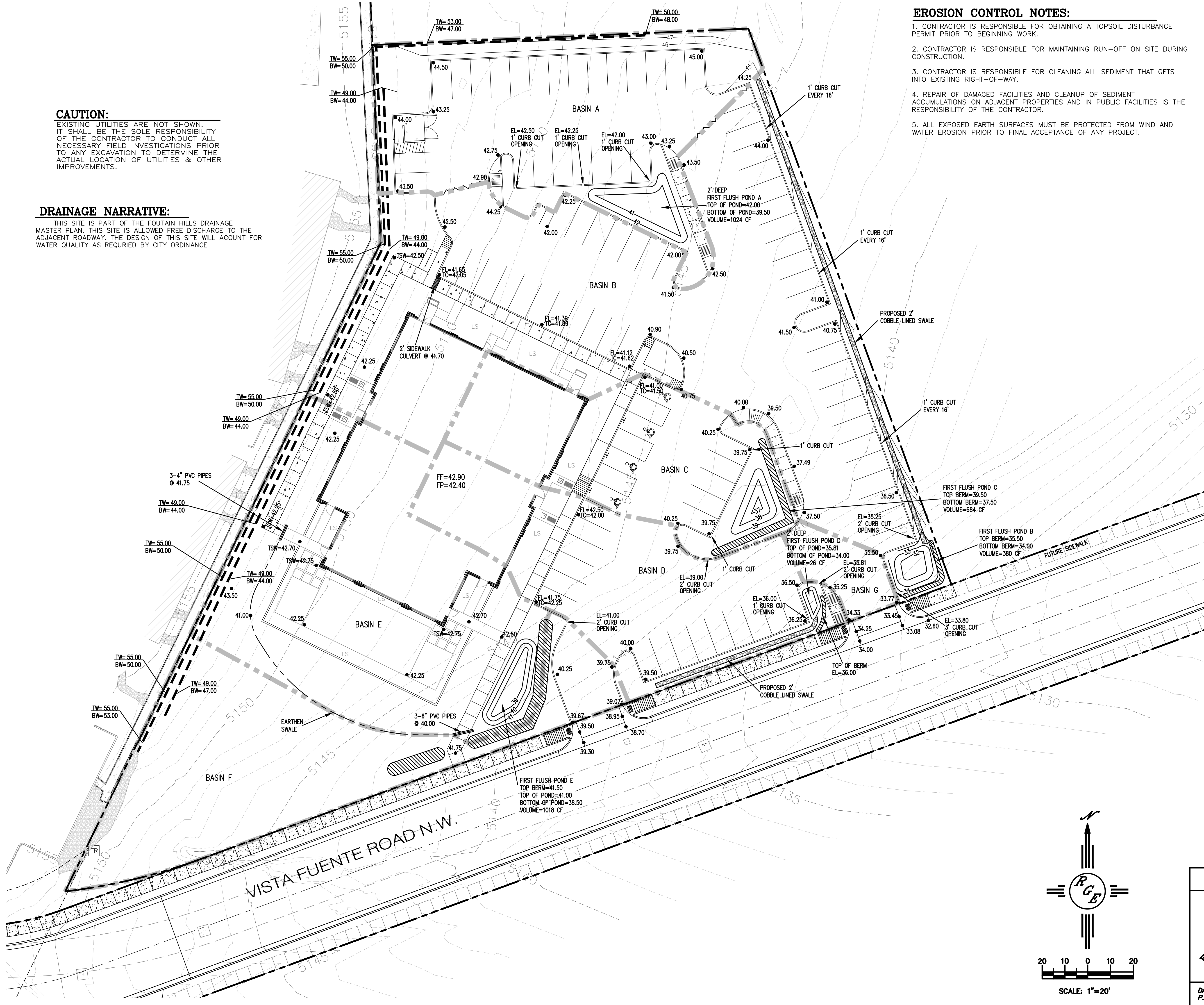
I DAVID SOULE, HAVE PERSONALLY INSPECTED THE PROPERTY ON X-XX-13.
NO EARTHWORK HAS BEEN PERFORMED AND THE SITE IS CONSISTENT WITH
THE TOPO SHOWN.

DAVID SOULE P.E. #14522

DATE

FOR INFO ONLY	ENGINEER'S SEAL	NOAH'S EVENT CENTER	DRAWN BY DEM
			DATE
		CONCEPTUAL GRADING AND DRAINAGE PLAN	5-2014
			visitors must comply with all rules
			SHEET #
			3 of 6
			JOB #
			5844.86

Rio Grande Engineering
1008 CENTRAL AVENUE
SUITE 201
ALBUQUERQUE, NM 87108
(505) 872-0000



Future top of curb vs. approximate
grade at right-of-way

Station	Top of curb r/w (right)	Existing grade r/w (right)	Existing grade r/w (left)
2+00	55.6	54.0	56.0
2+50	55.9	52.0	55.0
3+00	55.2	52.0	55.5
3+50	50.3	50.5	sfe
4+00	47.0	47.5	sfe
4+50	44.3	46.0	sfe
5+00	42.6	44.0	sfe
5+50	41.4	41.0	sfe
6+00	40.1	39.2	sfe
6+50	38.5	37.0	sfe
7+00	36.4	35.0	sfe
7+50	34.4	33.2	sfe
8+00	32.3	31.0	sfe
8+50	30.2	29.2	sfe
9+00	28.2	27.5	sfe
9+50	26.1	25.8	sfe
10+00	24.0	24.5	sfe

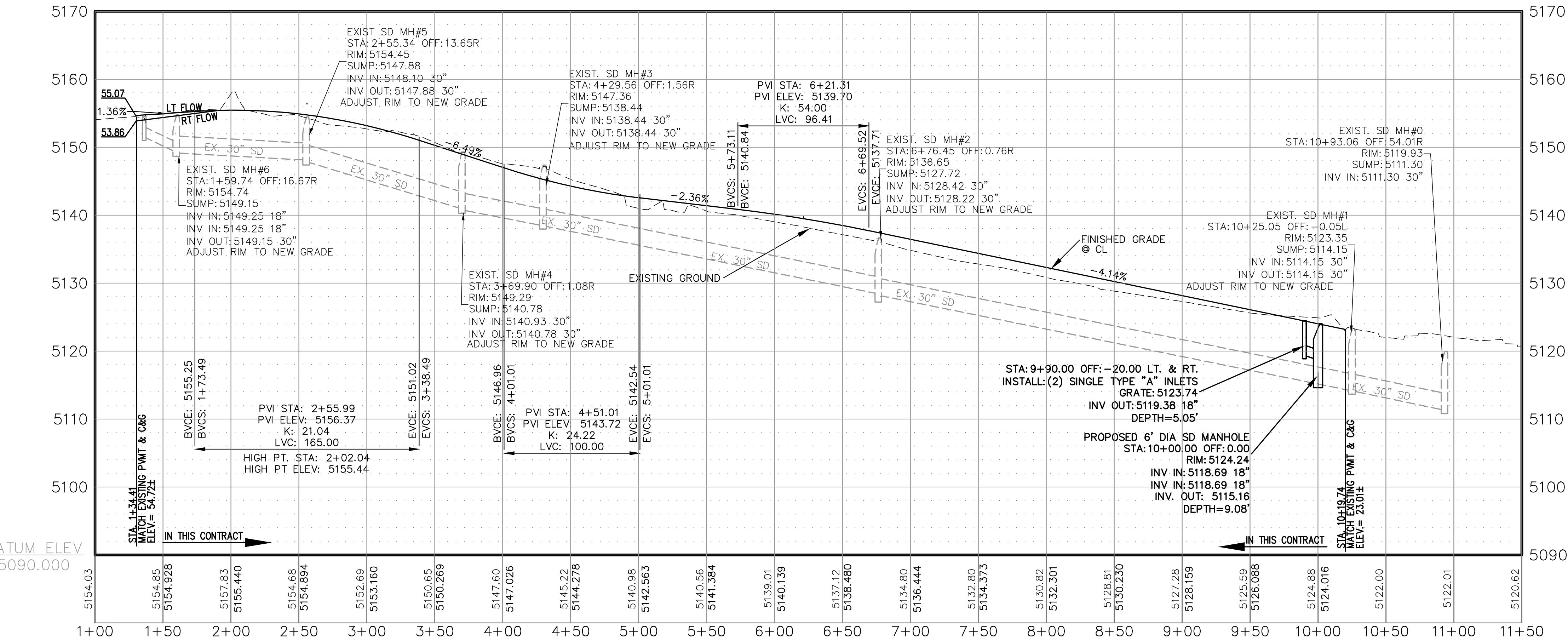
CR1	TC	FL	STATION @ FL
PC	55.96	55.29	1+67.68, 20.00' LT.
1	55.48	55.18	1/4 ARC
2	55.08	55.08	1/2 ARC
3	56.08	55.68	3/4 ARC
PT	56.95	56.28	1+42.77, 47.05' LT.

CR2	TC	FL	STATION @ FL
PC	53.30	52.63	1+28.67, 38.96' RT.
1	53.53	53.13	1/4 ARC
2	53.88	53.88	1/2 ARC
3	54.52	54.12	3/4 ARC
PT	55.02	54.35	1+52.30, 20.00' RT.

GENERAL NOTE:

ALL VALVES, FIRE HYDRANTS AND MANHOLE RIMS TO BE
ADJUSTED TO NEW GRADE.

VISTA FUENTE ROAD
STA: 1+00.00 TO 11+50.00
***-ALL STATIONING BASED UPON PROPOSED CENTERLINE**



CURVE DATA TABLE

CURVE #	DELTA	RADIUS	TAN	LENGTH
CR1	94°41'52"	25.00	36.77	41.32
CR2	75°39'38"	25.00	30.67	33.01

CENTERLINE CURVE DATA

CURVE #	DELTA	RADIUS	TAN	LENGTH
CL2	58° 41' 28"	150'	123.98'	127.81'

CENTERLINE TANGENT DATA

CURVE #	DELTA	LENGTH
CL1	S 61° 16' 49" E	143.04'
CL3	N 69° 53' 54" E	791.90'

KEYED NOTES

- PROPOSED CENTER LINE
- EXISTING CURB AND GUTTER, MATCH EXISTING C&G
- EXISTING STORM DRAIN
- EXISTING STORM DRAIN MANHOLE TO REMAIN
- EXISTING STORM DRAIN INLETS AND EXISTING SD TO BE REMOVED AND DISPOSED
- PROPOSED STANDARD C&G PER COA STD DWG 2415
- PROPOSED 6" SIDEWALK PER COA STD DWG 2430
- PROPOSED 6" VALLEY GUTTER PER COA STD DWG 2420
- PROPOSED WHEEL CHAIR RAMP PER COA STD DWG 2441
- STA. 10+12.54' 0.00 MATCH TO EXISTING PAVEMENT REMOVE CUT OFF WALL - SAWCUT & PROVIDE SMOOTH TIE IN
- FUTURE 6" SIDEWALK TO BE CONSTRUCTED WITH DEVELOPMENT OF ADJOINING PARCEL
- STA. 8+00.93', 24.00' LT. END OF PROPOSED 6" SIDEWALK
- STA. 1+39.52' TO STA. 1+89.52 CROWN TRANSITION
- DIRECTIONAL HANDICAP RAMP W/TURNACATED DOMES PER COA STD DWG 2426 SEE DETAIL SHEET 6
- INSTALL WHITE CROSS WALK MARKINGS SEE DETAIL SHEET 6
- STA. 9+91.36 TO STA. 10+10.88 BUILD 56 LF OF MEDIAN CURB AND GUTTER SEE DETAIL SHEET 6
- STA. 3+72.04', 24.00' LT. BEGIN OF PROPOSED 6" SIDEWALK
- FILLET VALLEY GUTTER AND HANDICAP RAMP PER COA STD DWG 2426
- REMOVE AND DISPOSE 97 LF OF EXISTING CURB AND GUTTER CUT NICE NEAT LINE ALONG LIP OF CURB FOR VALLEY GUTTER
- MATCH TO EXISTING GRADE NORTH
- EXISTING SPEED HUMP TO REMAIN
- PROPOSED 22 LF OF 18" SD S=3.09%
- PROPOSED 22 LF OF 18" SD S=3.09%
- STA. 9+90.00, 20.00' RT. INSTALL TYPE "A" INLET - PER STD DWG 2201 & 2202 GRADE= 5123.74 18" INV. (OUT)=5119.38
- STA. 9+90.00, 20.00' LT. INSTALL TYPE "A" INLET - PER STD DWG 2201 & 2202 GRADE= 5123.74 18" INV. (OUT)=5119.38
- STA. 10+00.00, 0.00 INSTALL (1)-6" DIA STORM DRAIN MANHOLE RIM= 5124.24 INV. 30" (IN)=5115.20 INV. 30" (OUT)=5115.16 INV. 18" LT & RT=5118.69 DEPTH= 9.08
- EXISTING ACCESS EASEMENT PER PLAT PER PLAT
- STA. 1+42.77, 47.05' LT. INSTALL TYPE "A" INLET - PER STD DWG 2201 & 2202 GRADE= 5156.28 INV. 30" (IN)=5651.50
- PROPOSED 73 LF OF 18" SD S=3.09%

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

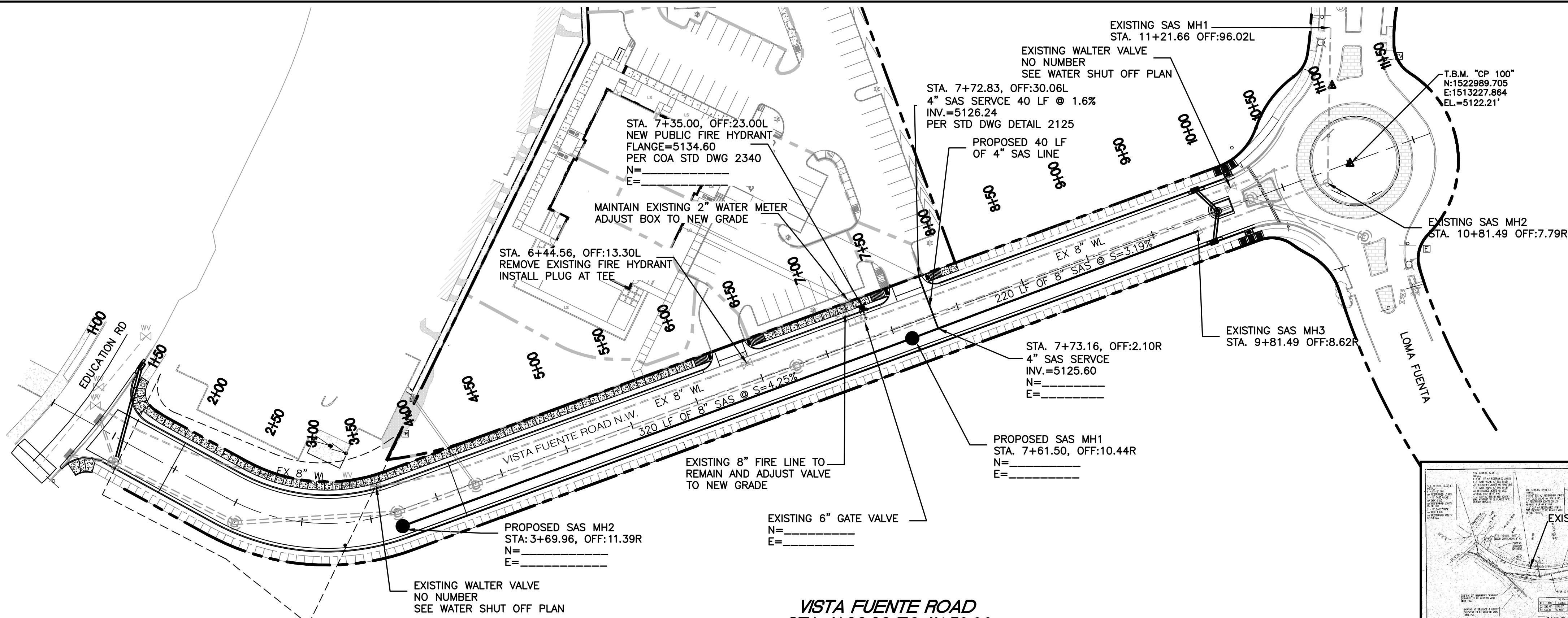


**BERNALILLO COUNTY
PUBLIC WORKS DIVISION
ENGINEERING GROUP**

TITLE: **VISTA FUENTE ROAD IMPROVEMENTS**

PAVING IMPROVEMENTS
VISTA FUENTE RD

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF	
5844.86	C-12-Z	4		6



VISTA FUENTE ROAD
STA: 1+00.00 TO 11+50.00
*-ALL STATIONING BASED UPON PROPOSED CENTERLINE

GENERAL NOTE:

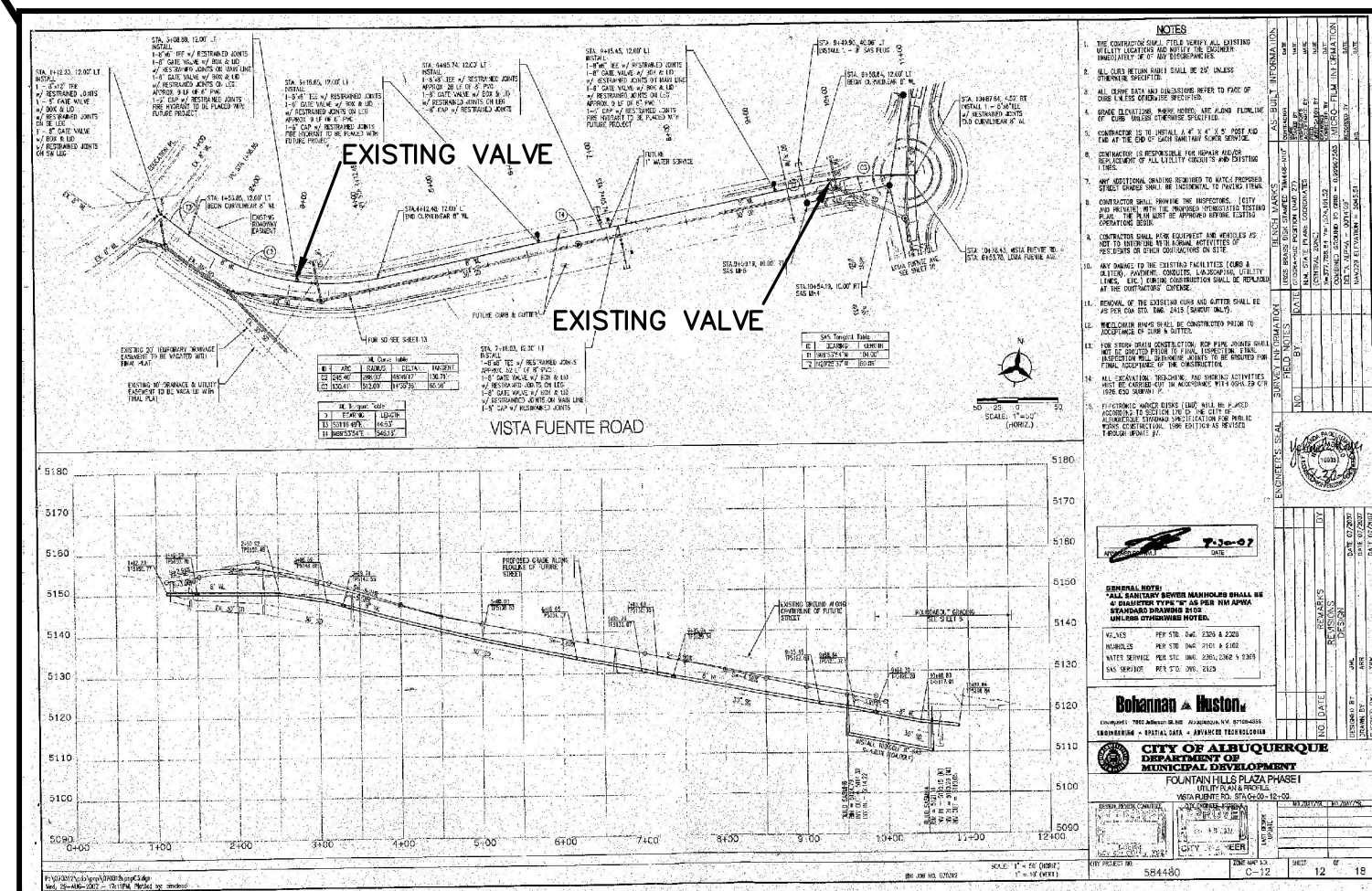
- ALL MANHOLE RIMS, VALVE CANS, FIRE HYDRANTS ECT. AS APPLICABLE BE ADJUSTED TO NEW GRADE. PER STANDARD DRAWINGS 2101, 2326, 2340
- ALL EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ANY DAMAGE AND REPAIRS SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- TIE MANHOLES AND TEE'S TO BENCHMARK - MONUMENT 9-C12

UTILITY NOTES:

- CONTRACTOR RESPONSIBLE FOR LOCATION OF ALL EXISTING UTILITIES PRIOR TO WORK.
- EXISTING 8" WL HAS 3' MIN. COVER
- ALL PROPOSED MANHOLE LIDS TO MATCH WITH PROPOSED PAVEMENT
- CITY STANDARDS TO BE USED ON ALL UTILITIES, UPDATE 8, AMMEDEMENT 1
- DO NOT INSTALL STEPS IN SAS MANHOLES.

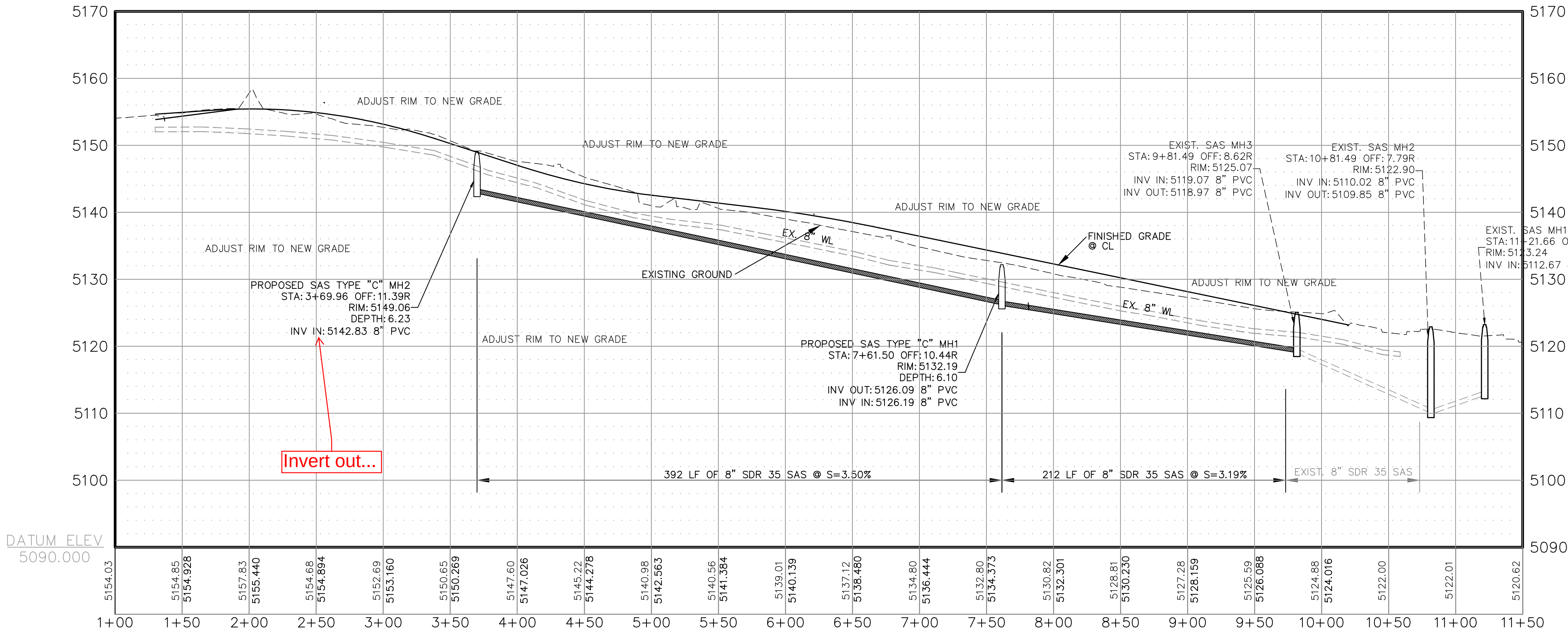
LEGEND

- EXISTING SAS MANHOLE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING STORM DRAIN MANHOLE
- EXISTING WATER LINE
- EXISTING SAS LINE
- PROPOSED SANITARY SEWER
- PROPOSED SAS MANHOLE PER COA STD DWG 2102
- PROPOSED SANITARY SEWER SERVICE LINE PER COA STD DWGS
- PROPOSED FIRE HYDRANT PER COA STD DWG 2340
- PROPOSED GATE VALVE PER COA STD DWGS

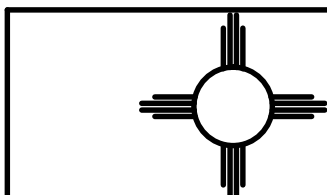
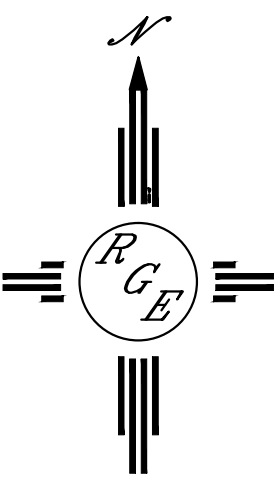


WATER SHUTOFF NOTES:

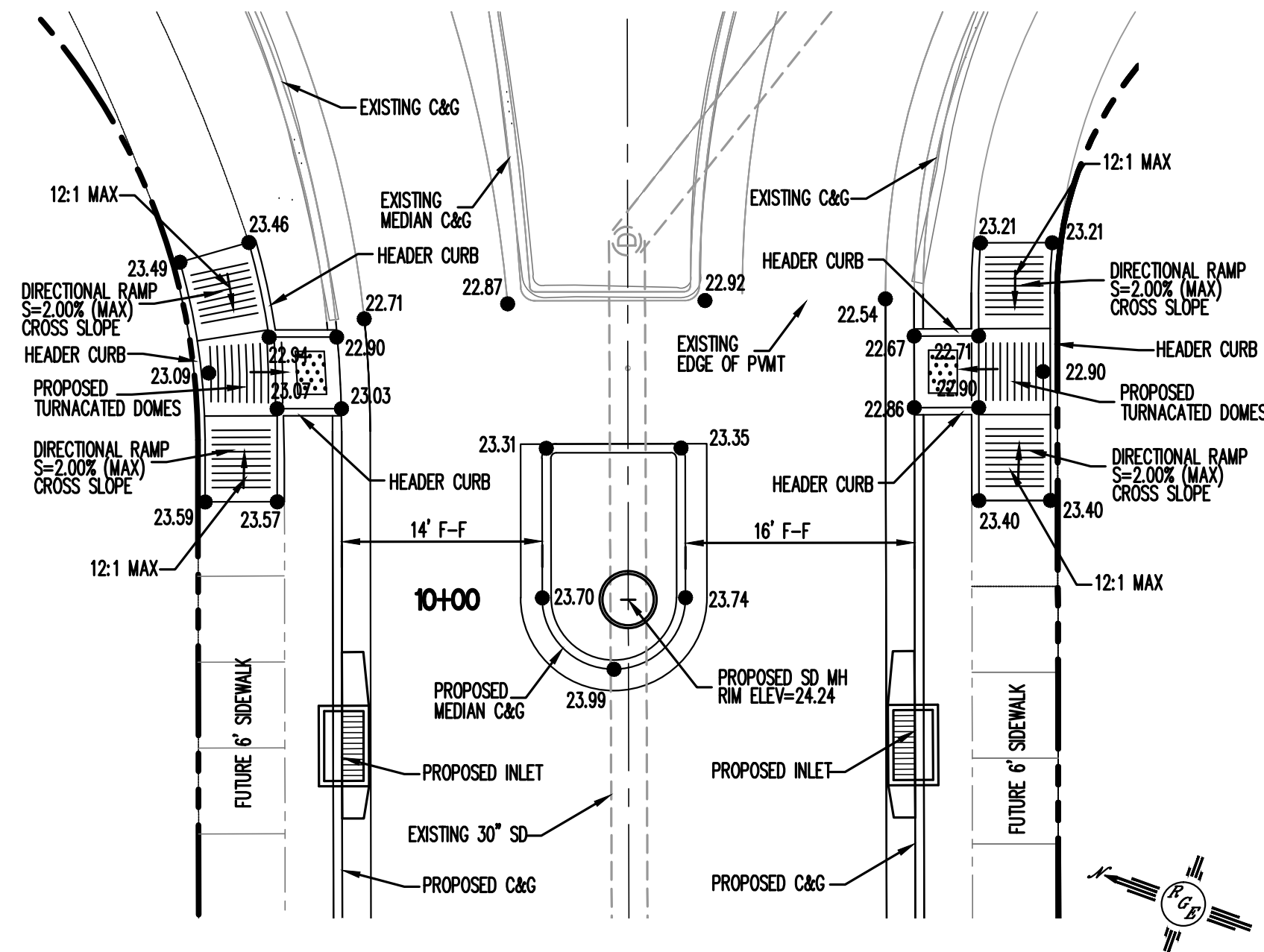
- THE CONTRACTOR SHALL COORDINATE WITH THE WATER UTILITY AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUT OFF REQUEST MUST BE MADE ONLINE AT [HTTP://ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES](http://abcwua.org/water_shut_off_and_turn_on_procedures).
- VALVES SHALL BE OPERATED BY ABCWUA EMPLOYEES ONLY.
- EMERGENCY SHUT-OFF PLAN INVOLVES SHUTTING OFF EXISTING GATE VALVES ON 8" WATER LINE ON VISTA FUENTE ROAD.



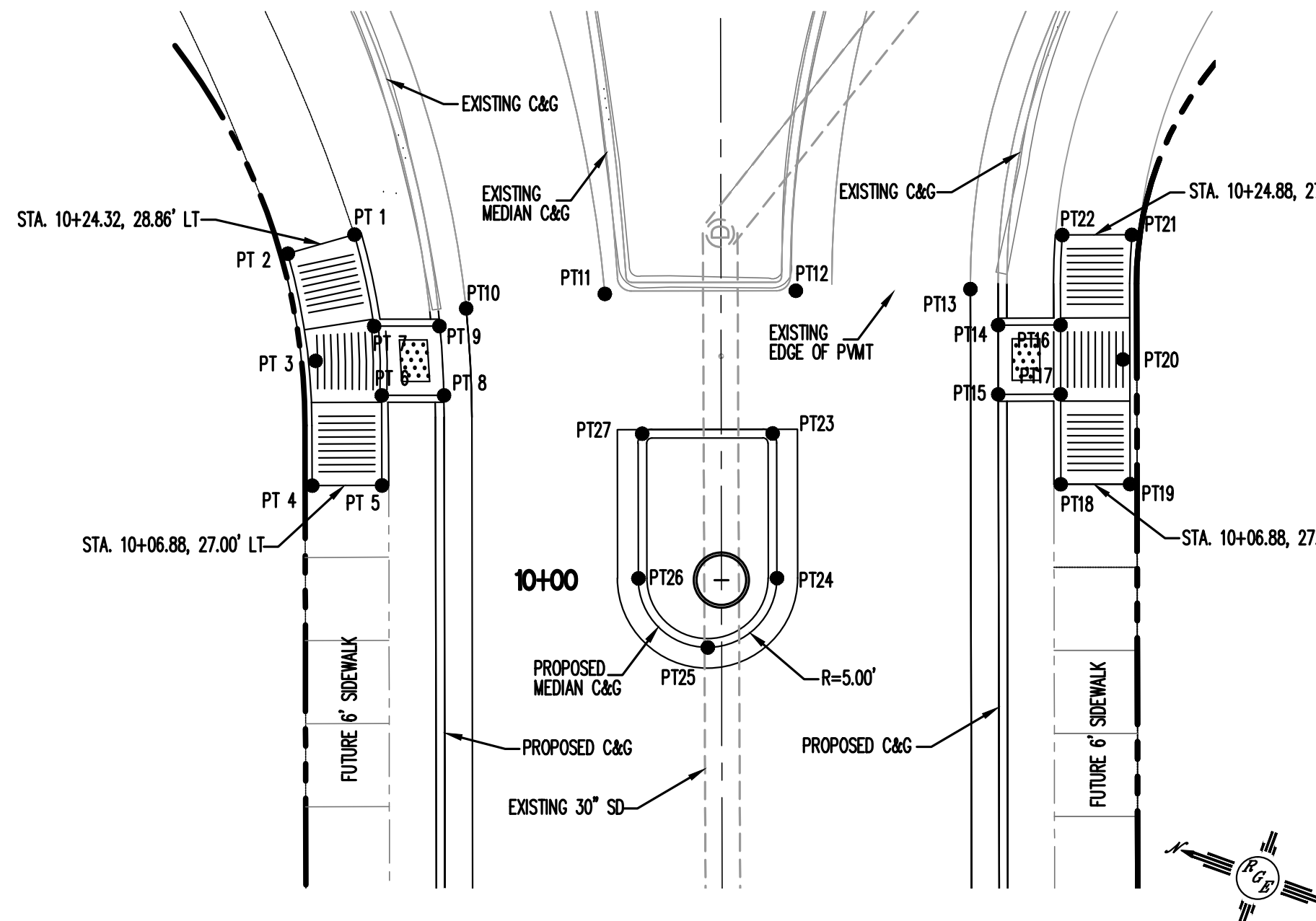
Invert out...



BERNALILLO COUNTY PUBLIC WORKS DIVISION ENGINEERING GROUP			
TITLE: VISTA FUENTE ROAD IMPROVEMENTS UTILITY IMPROVEMENTS VISTA FUENTE RD			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 5844.86		ZONE MAP NO. C-12-Z	SHEET 5 OF 6



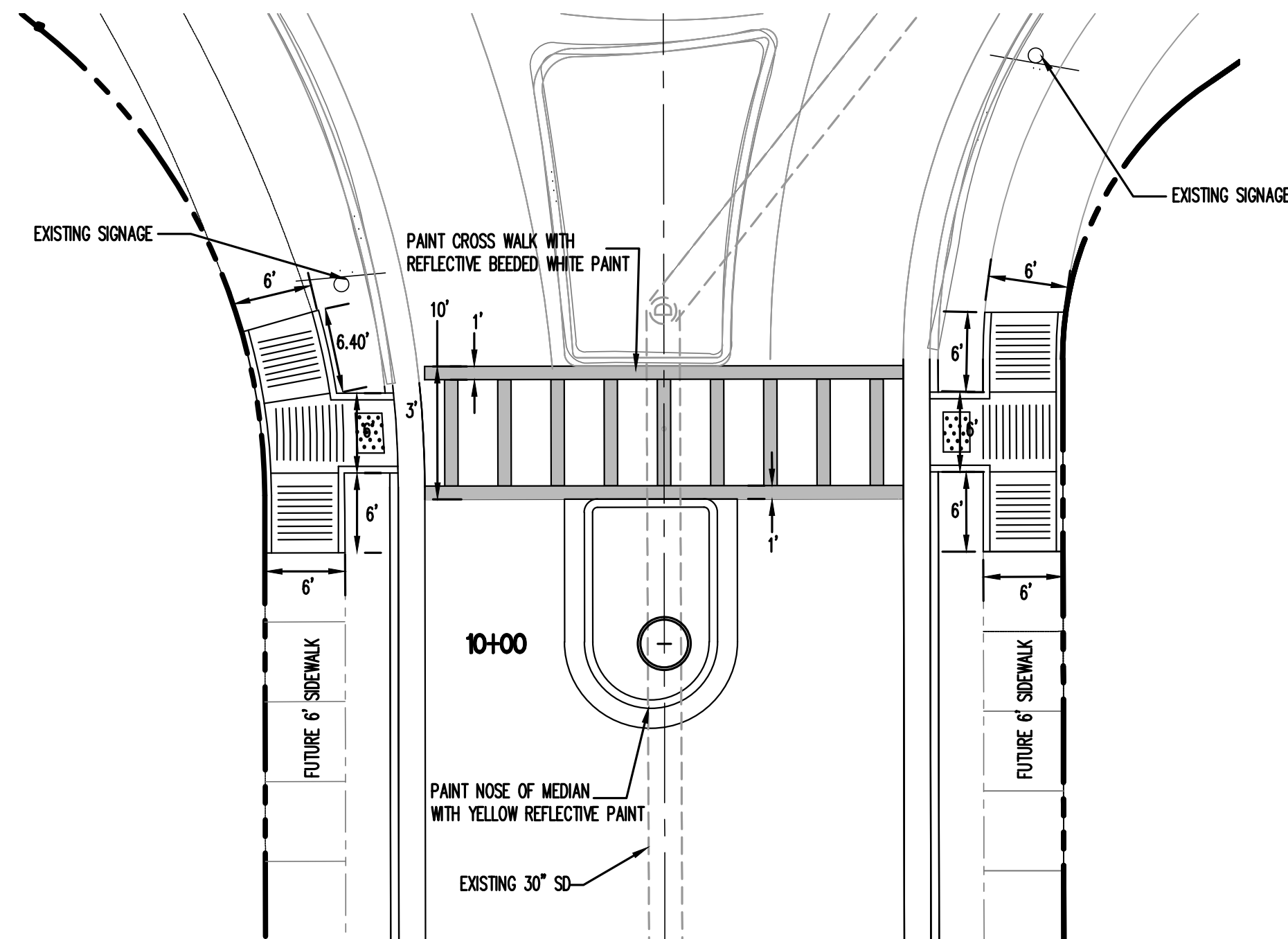
HANDICAP RAMPS AND MEDIAN CURB GRADING POINTS
STA: 9+95.14, 1.00' LT. TO 10+10.88, 1.00' LT NTS



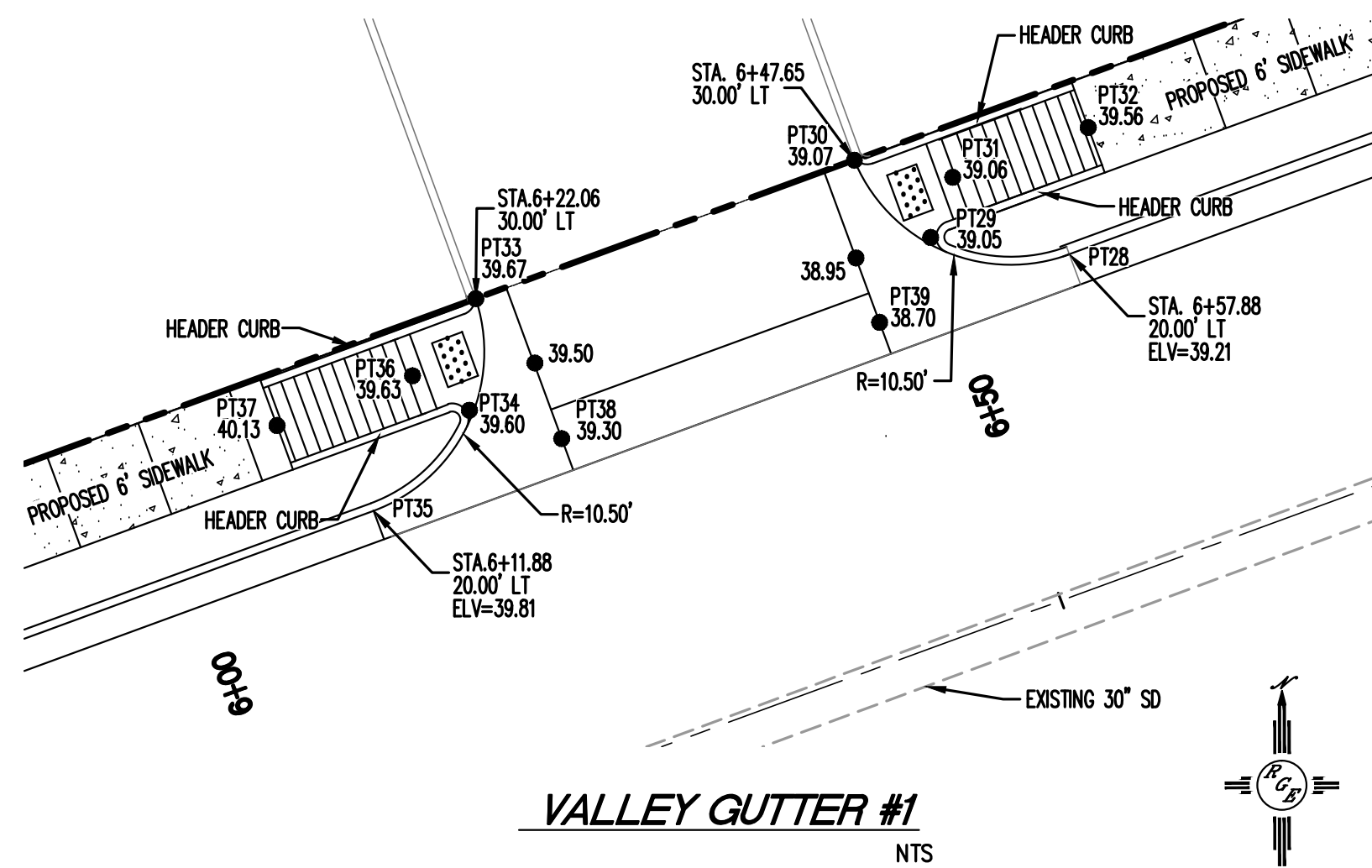
HANDICAP RAMPS AND MEDIAN CURB POINT DATA
STA: 9+95.14, 1.00' LT. TO 10+10.88, 1.00' LT NTS

POINT TABLE

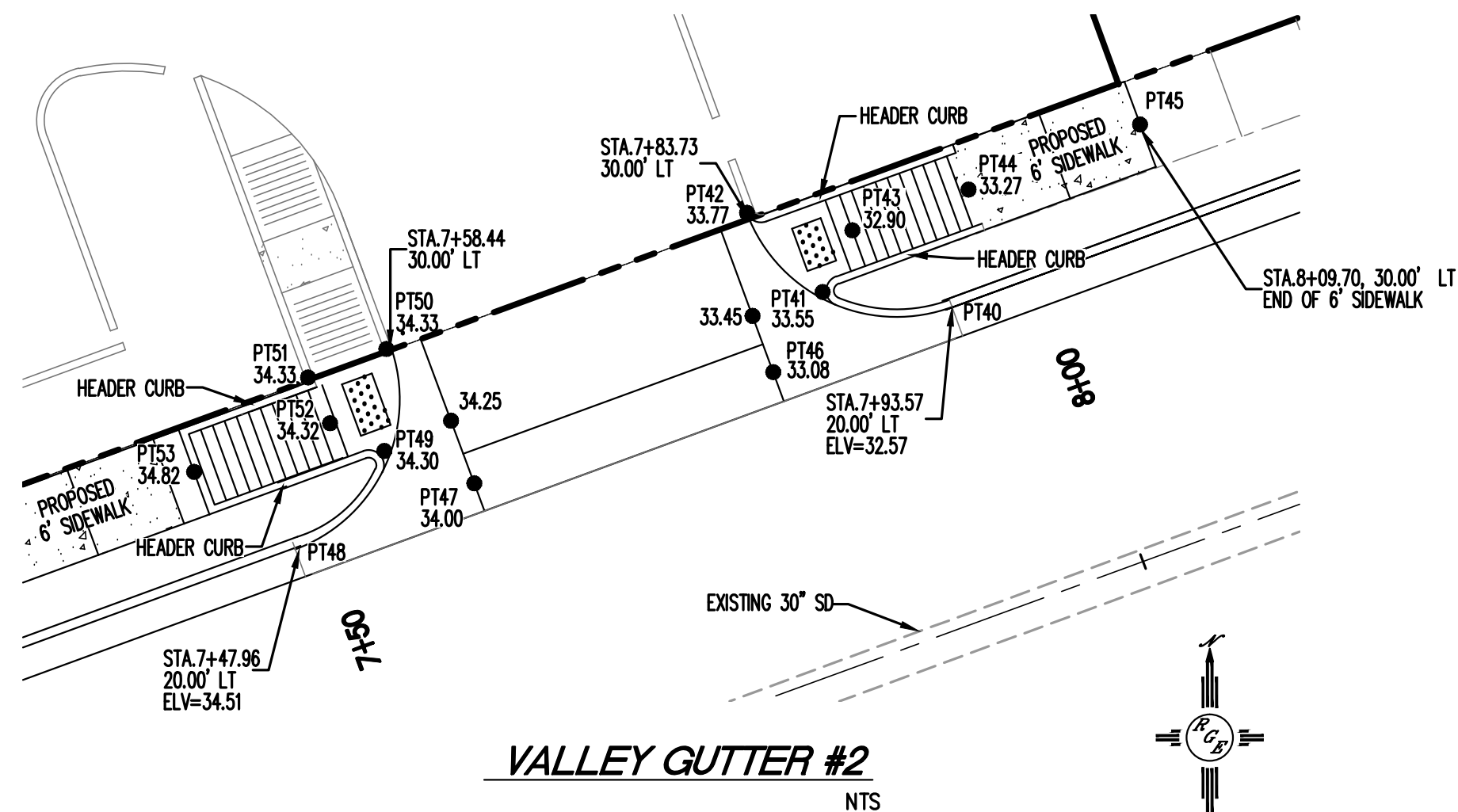
PT #	NORTHING	EASTING
PT 1	1522988.7870913'	1513146.9157814'
PT 2	1522992.8375776'	1513143.9787984'
PT 3	1522988.269498'	1513137.3054469'
PT 4	1522985.4545030'	1513128.841026'
PT 5	1522980.7272205'	1513130.5712014'
PT 6	1522982.961696'	1513136.6752478'
PT 7	1522985.1937868'	1513141.1624951'
PT 8	1522978.7426223'	1513138.2191661'
PT 9	1522980.7883251'	1513142.8021330'
PT 10	1522979.3912879'	1513144.6643243'
PT 11	1522970.3386503'	1513149.0713045'
PT 12	1522957.4397867'	1513154.0135759'
PT 13	1522945.6627872'	1513158.4249210'
PT 14	1522942.8903670'	1513156.6647644'
PT 15	1522941.1719492'	1513151.9693444'
PT 16	1522938.6945087'	1513158.2115584'
PT 17	1522936.9460709'	1513153.5158362'
PT 18	1522934.7121018'	1513147.4118916'
PT 19	1522930.0166815'	1513140.1303296'
PT 20	1522933.5794116'	1513157.4102423'
PT 21	1522936.0518330'	1513166.0891514'
PT 22	1522940.7647847'	1513164.3643340'
PT 23	1522955.5124627'	1513143.7489180'
PT 24	1522951.6461488'	1513134.0348076'
PT 25	1522954.6231313'	1513127.6210396'
PT 26	1522961.0369894'	1513130.5980221'
PT 27	1522964.3532006'	1513140.5113699'



STREET STRIPING CROSSING DETAIL
NTS



VALLEY GUTTER #1
NTS



VALLEY GUTTER #2
NTS

POINT TABLE

PT #	NORTHING	EASTING
PT 28	1522856.5435722'	1512804.3745520'
PT 29	1522857.6298880'	1512796.1219550'
PT 30	1522862.2096262'	1512791.4057092'
PT 31	1522861.3259460'	1512797.1304400'
PT 32	1522864.4137207'	1512805.5360491'
PT 33	1522853.3569531'	1512767.4002846'
PT 34	1522846.9079700'	1512766.8739921'
PT 35	1522840.6254531'	1512761.2165776'
PT 36	1522849.0140264'	1512763.6212674'
PT 37	1522845.9262517'	1512755.2156584'
PT 38	1522845.1047805'	1512772.8780096'
PT 39	1522852.2847462'	1512792.6125909'

POINT TABLE

PT #	NORTHING	EASTING
PT 40	1522903.1871149'	1512831.7956710'
PT 41	1522904.4248687'	1512823.9063600'
PT 42	1522909.0046068'	1512819.1901141'
PT 43	1522908.3680302'	1512825.6102881'
PT 44	1522911.0494861'	1512833.2893985'
PT 45	1522915.3503875'	1512844.5126306'
PT 46	1522899.0150688'	1512820.4203996'
PT 47	1522891.7471891'	1512800.7566869'
PT 48	1522887.4192983'	1512809.0024328'
PT 49	1522893.6043421'	1512895.5729508'
PT 50	1522900.5556872'	1512895.3495514'
PT 51	1522898.5431429'	1512890.2304348'
PT 52	1522895.7600887'	1512891.2547963'
PT 53	1522892.5092423'	1512882.3345055'

NOTE:
COORDINATE WITH ENGINEER IF FIELD CONDITIONS
REQUIRE MODIFICATION TO THESE DETAILS...

my misspelling....
should be "details".

Dan, we will need to make room for the catch basin
details... the type "A" with two grates.

*-ALL STATIONING BASED UPON PROPOSED CENTERLINE

BERNALILLO COUNTY PUBLIC WORKS DIVISION ENGINEERING GROUP	
TITLE: VISTA FUENTE ROAD IMPROVEMENTS DETAILS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
LAST DESIGN UPDATE	
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CITY PROJECT NO. 5844.86	
ZONE MAP NO. C-12-Z	
SHEET 6 OF 6	