

CENTEX AMERICAN GYPSUM

4600 PASEO DEL NORTE N.E. ALBUQUERQUE, NM

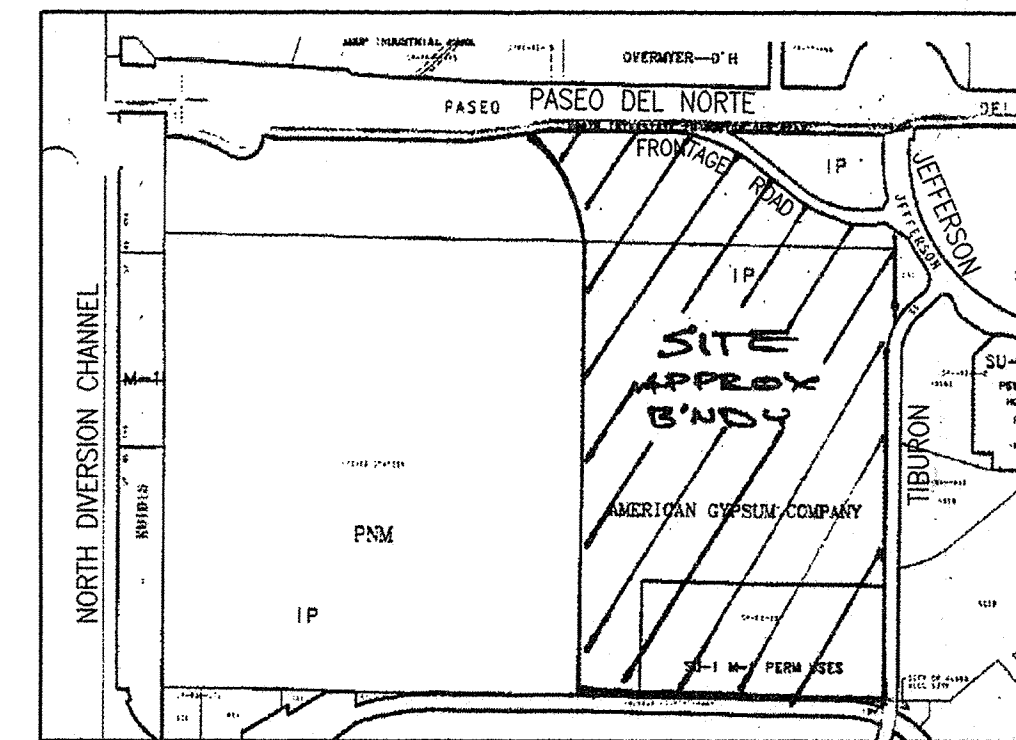
GRADING & DRAINAGE FOR ADDITIONS & MODIFICATIONS

INDEX OF DRAWINGS

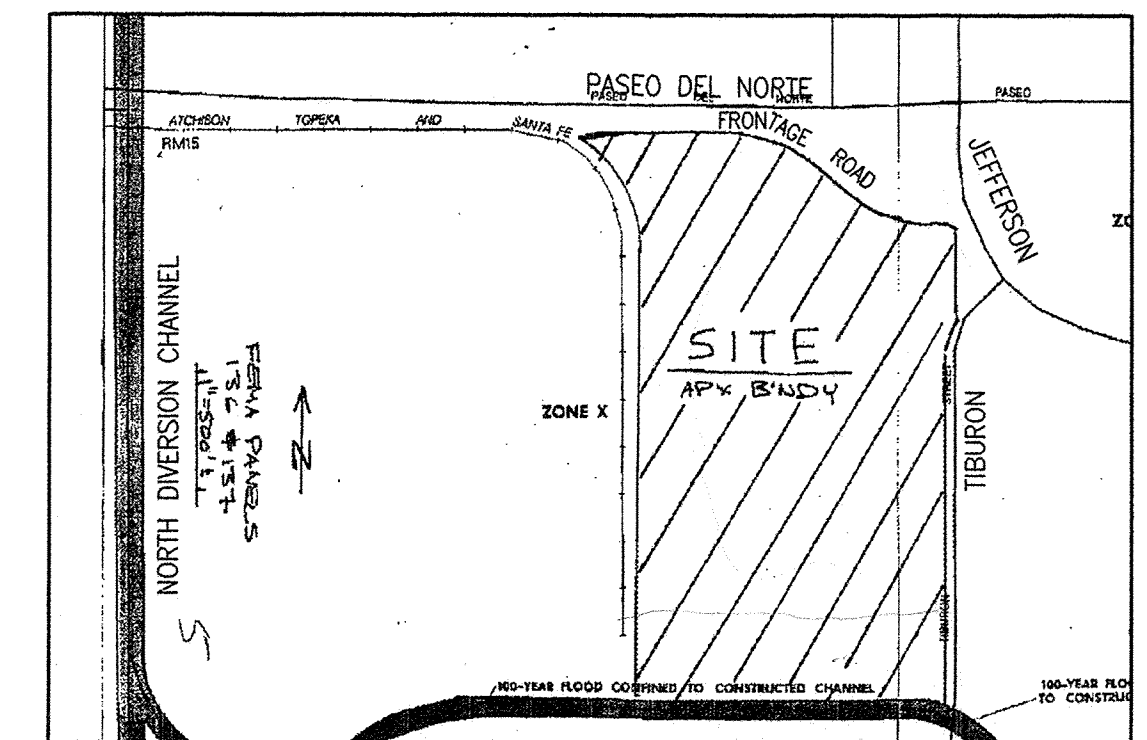
SHEET

DESCRIPTION

1	TITLE SHEET
2	PLAN, OVERVIEW
3	EXISTING CONDITIONS
4	LAYOUT SCHEMATIC
5	PLAN, SOUTH PART OF SITE
6	PLAN, NORTH PART OF SITE
7	PROFILE FOR ONSITE TRUCK ROAD
8	OFFICE ADDITION - TIBURON ST
9	DETAILS
10	PLAN, REVISED FRONTAGE ROAD ENTRANCE & NEW PARKING



VICINITY MAP (D17) - NO SCALE



FLOOD ZONE MAP - NO SCALE

LEGEND

TW	TOP OF WALL
INV	INVERT
LP	LIGHT POLE
PP	POWER POLE
T	TELEPHONE
E, EX	EXISTING
TA	TOP OF ASPHALT
TP	TOP OF PAVEMENT
FL	FLOW LINE
TC	TOP OF CURB / CONCRETE
SW	SIDEWALK
FF	FINISHED FLOOR
FG	FINISHED GRADE
EG	EXISTING GRADE
X	WATER VALVE
W	WATER METER
OR	FIRE HYDRANT
27	NEW CONTOURS
5129	EXISTING CONTOURS
529	
→	FLOW DIRECTION
=====	NEW CURB AND GUTTER
=====	EXISTING CURB AND GUTTER
TC35.36	NEW SPOT ELEVATION
x 34.60	EXISTING SPOT ELEVATION

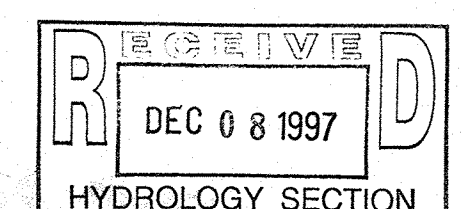
S.O. 19 APPROVALS FOR WORK IN CITY R.O.W.

APPROVALS	NAME	DATE
A.C.E./HYDROLOGY		
INSPECTOR		
A.C.E./FIELD		

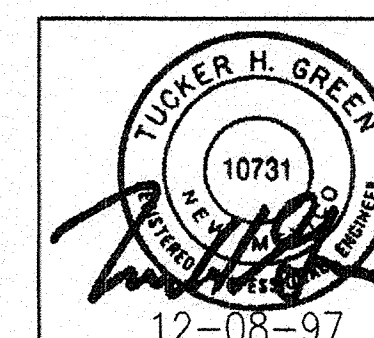
(AT OFFICE ADDITION, 7717 TIBURON N.E.)

GENERAL NOTES

- An excavation/construction permit will be required before beginning any work within City of Albuquerque right-of-way. An approved copy of these plans must be submitted at the time of application for this permit. See Note 14 for work the the State right-of-way.
- The Contractor shall obtain a Topsoil Disturbance Permit prior to beginning construction.
- All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction, 1986 edition, through Update 6.
- All construction within City Right-of-Way or Easements must be done from approved Work Order documents from the City.
- Two working days prior to any excavation, Contractor must contact Line Locating Service (260-1990) for location of existing utilities.
- All utilities and utility service lines shall be installed prior to paving.
- All storm drainage facilities shall be installed prior to final acceptance.
- Prior to construction, the Contractor shall become familiar with the plans, shall excavate and verify the horizontal and vertical locations of all obstructions, and shall verify all slopes and flowline elevations. In the case of a conflict or apparent omission or addity the Contractor shall consult with the Engineer immediately, before final layout or construction.
- Backfill compaction in the City right of way shall be according to the appropriate class of street or road. Backfill in parking lots and driveways shall be as for residential streets unless noted otherwise.
- Backfill and compaction for the onsite truck road and other areas subject to traffic from heavy trucks, shall be as per arterial streets unless otherwise noted.
- WARNING! The Contractor shall be responsible for determining, prior to construction, whether overhead or underground utilities (and/or their support and ancillary structures) are obstructions to construction activities or would be harmed by such activities. If any problem is evident, the Contractor shall be responsible for coordinating with the utilities to have the utility supported, protected, or removed. The Contractor shall be responsible for any cost involved. Underground utility cables (such as for telephone, television, or power) shall be supported at intervals not to exceed 15'.
- For work involving City Right-of-Way or Easements, the Contractor shall submit a detailed schedule to the City Coordination Division three (3) working days prior to beginning construction, and shall obtain a Barricading Permit two (2) working days prior to construction. The Contractor shall notify the Barricade Engineer (768-2551) prior to occupying an intersection. See City Specifications, Section 19.
- WARNING! If any utility lines, pipelines, or underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist even if they are not shown. The Engineer has undertaken no field verification of such utility lines etc. and the information on which the locations shown are based may be inaccurate, incomplete, or obsolete by the time construction occurs. The Contractor shall inform himself of the locations of such utilities etc. in or near the work before and during excavation and construction. The Contractor shall be fully responsible for any and all damage caused by his failure to locate, identify, and preserve such utilities.
- In planning and conducting excavation and all other construction, the Contractor shall comply with all appropriate laws, rules, and regulations relating to these activities, particularly as regards to all utilities and to safety.
- Work in the State right-of-way (at entrance from Paseo del Norte South Frontage Road) requires a permit from the New Mexico State Highway & Transportation Dept.



DWG: CXTSHT.dwg DATE: 12/08/97 TIME: 13:10 T. GREEN

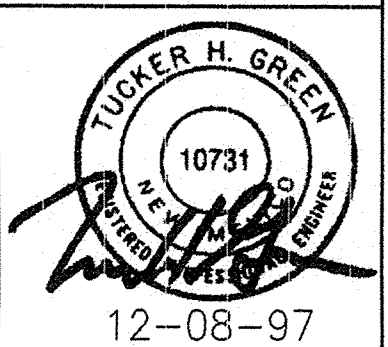
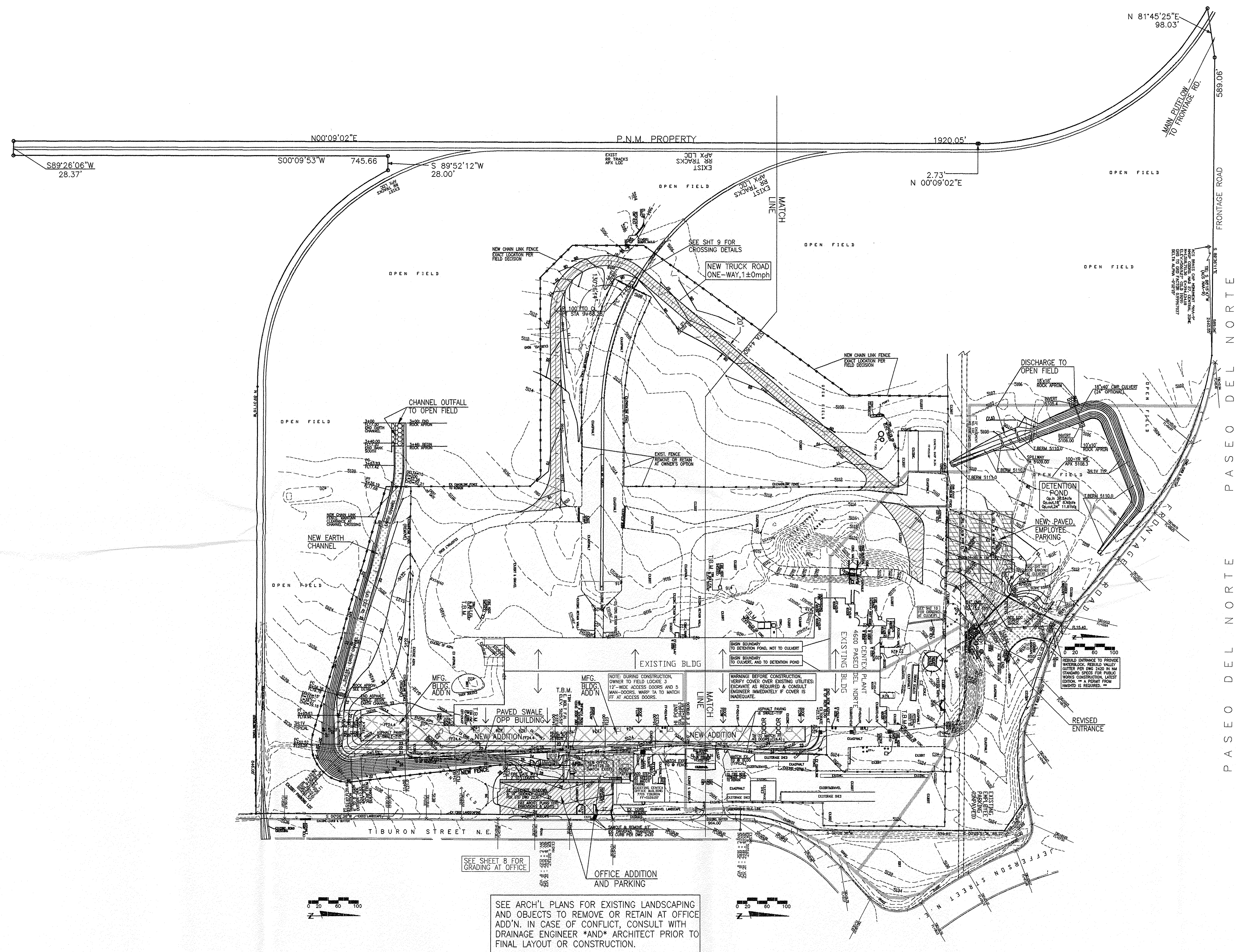


CENTEX AMERICAN GYPSUM: ADDITIONS & MODIFICATIONS
4600 PASEO DEL NORTE NE ALBUQUERQUE NM

TITLE SHEET

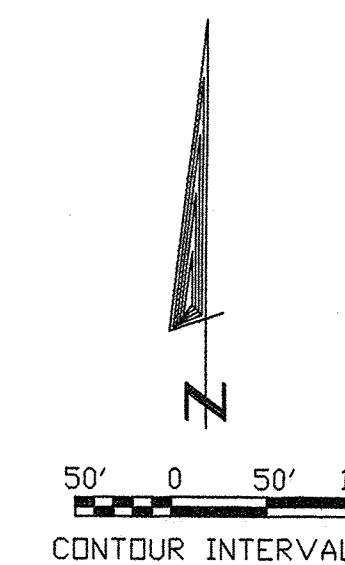
PER SE ENGINEERING
Drainage, Utilities, and Site Design
9109 La Barranta NE Albuquerque NM 87111
(505) 275-0451 239-7855 mobile

SHEET
1 of 10



CENTEX AMERICAN GYPSUM: ADDITIONS & MODIFICATIONS 4600 PASEO DEL NORTE NE ALBUQUERQUE NM	
GRADING, DRAINAGE, ONSITE TRUCK ROAD PLAN OVERVIEW	
PER SE ENGINEERING Drainage, Utilities, and Site Design 9109 La Barranta NE Albuquerque NM 87111 (505) 275-0451 239-7855 mobile	SHEET 2 of 10

P.N.M.
PROPERTY



TOPOGRAPHIC SURVEY
FOR
CENTEX
AMERICAN GYPSUM COMPANY
ALBUQUERQUE PLANT
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JULY, 1997

THIS PER SE ENGINEERING DRAWING BASED ON & MODIFIED FROM
CLINT SHERRILL & ASSOC. DRAWING. SOME NOTATIONAL ELEMENTS
REARRANGED & RESIZED FOR DISPLAY AT 1"=100'. FOR INFO ONLY.

UTILITY NOTES:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM
FIELD SURVEY INFORMATION, ATLAS MAPS AS MAY BE AVAILABLE
FROM MUNICIPALITIES OR UTILITY COMPANIES, AND EXISTING DRAWINGS.
THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES
COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR
ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE
UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED
ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS
POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT
PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CONTACT NEW MEXICO ONE CALL SYSTEM INC. (505) 260-1990 IN
ALBUQUERQUE BEFORE EXCAVATING TO HAVE UNDERGROUND
UTILITY LINES MARKED.

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	DELTA	BEARING	CHORD DISTANCE
A	328.48'	703.20'	26°45'52"	S 68°08'41"E	325.51'
B	45.67'	703.20'	3°43'15"	S 53°15'36"E	45.66'
C	210.59'	490.46'	24°36'06"	S 63°41'48"E	208.98'
D	168.19'	502.46'	19°10'45"	N 88°24'47"E	167.41'
E	134.06'	295.01'	26°02'13"	S 13°08'15"W	132.91'
F	198.35'	875.00'	12°59'16"	S 06°22'34"E	197.92'
G	382.68'	440.46'	49°46'49"	N 76°17'11"W	370.76'
H	98.18'	523.22'	10°45'06"	N 58°56'27"W	98.04'
I	13.19'	523.22'	1°26'40"	N 64°57'14"W	13.19'
J	528.78'	473.28'	64°00'53"	N 58°31'06"W	501.70'

(FROM SURVEYOR)

- THIS IS NOT A BOUNDARY SURVEY.
- INFORMATION FOR BOUNDARY TAKEN FROM LEGAL DESCRIPTION
PROVIDED TO CENTEX, FROM "DMJM", IN 1988
DANIEL, MANN, JOHNSON, & MENDENHALL
6501 AMERICA'S PARKWAY NE, SUITE 690
ALBQ., NM 87110, PH. (505) 884-4031
- A PORTION OF SECTION 23, T.11 N., R.3 E., N.M.P.M.
- ZONE MAP D-17-Z.
- BASIS OF BEARING = ACS CONTROL, NEW MEXICO STATE PLANE,
(CENTRAL ZONE), NAD 1927, DETERMINED BY G.P.S. OBSERVATION.
BEARING BETWEEN ACS MON. "NAA-9" AND "11-D18" = N 89°37'31"E
- BASIS OF ELEVATION = ACS CONTROL MONUMENT "NAA-9",
NAVD 1929, ELEV. = 5069.27'
- NO SEARCH FOR EASEMENTS WAS MADE FOR THIS SURVEY.

DWG: CXSV2 DATE: 12/08/97 TIME: 14:35 T. GREEN

CLINT SHERRILL & ASSOC.
730 SAN MATEO S. E.
ALBUQUERQUE, NEW MEXICO 87108
(505) 256-7364 (505) 256-7800 FAX

ALBUQUERQUE, PLANT

CENTEX
AMERICAN GYPSUM COMPANY

BERNALILLO COUNTY, N.M.		PROJECT NO.	97059
DATE:	7-8-97	DRAWN BY	M.S.
REVISION		CHECKED BY	B.V.
DATES:		SHEET 2	OF 2

EXISTING CONDITIONS
FOR INFORMATION ONLY
NO STAMP THIS SHEET

SHT 3 OF 10

ID	X	Y
DRAINAGE - NORTH		
1	7,123.68	18,322.82
2	7,137.30	18,309.59
3	7,148.70	18,304.54
4	7,164.95	18,303.51
5	7,163.99	18,293.12
6	7,125.41	18,293.26
7	7,109.75	18,308.47
8	7,046.34	18,384.02
9	6,964.67	18,557.10
10	6,876.75	18,627.58
11	6,847.10	18,632.12
12	6,704.83	18,576.70
13	6,687.77	18,537.86
14	6,695.03	18,519.22
15	6,742.21	18,398.09
16	6,753.10	18,370.14
17	6,767.62	18,332.86
18	6,793.03	18,267.64
19	6,983.26	18,580.39
20	6,857.99	18,604.17
21	6,715.72	18,548.75

NEW TRUCK ROAD
ONE-WAY, 10mph

ID	X	Y
TRUCK ROAD		
1	6,892.25	18,203.89
2	6,762.53	18,051.67
3	6,411.87	17,640.18
4	6,487.98	17,575.38
5	6,487.98	17,475.38
6	6,854.88	17,485.38

ID	X	Y
SW: SWALE		
1	6,709.28	17,162.56
2	6,793.11	17,162.38
3	6,844.86	17,155.45
4	7,250.47	17,045.82
5	7,289.29	17,040.62
6	7,346.17	17,040.50
7	7,371.21	17,036.53
8	7,370.03	17,036.53
9	7,343.80	17,733.59
10	7,356.10	17,874.18
11	7,356.32	17,974.61

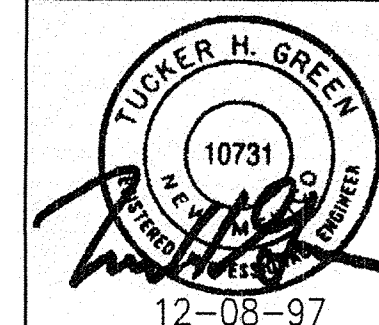
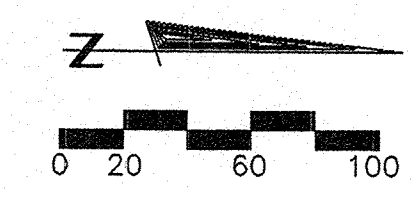
SOURCE: D:\PROJ\CLAYOUT.WG1		
ID	X	Y
EP: ENTRANCE & PARKING		
1	7,089.18	18,452.37
2	7,083.39	18,439.59
3	7,074.54	18,418.74
4	7,053.66	18,376.94
5	7,035.65	18,365.89
6	7,003.72	18,366.07
7	7,003.84	18,386.07
8	6,883.84	18,386.77
9	6,883.10	18,258.77
10	7,010.18	18,290.03
11	7,005.91	18,281.12
12	7,003.15	18,266.75
13	7,003.09	18,258.07
14	7,003.07	18,253.34
15	7,027.06	18,252.57
16	7,033.80	18,274.25
17	7,048.01	18,287.21
18	7,110.92	18,321.28
19	7,135.99	18,334.86
20	7,161.49	18,381.30
21	7,185.56	18,425.13

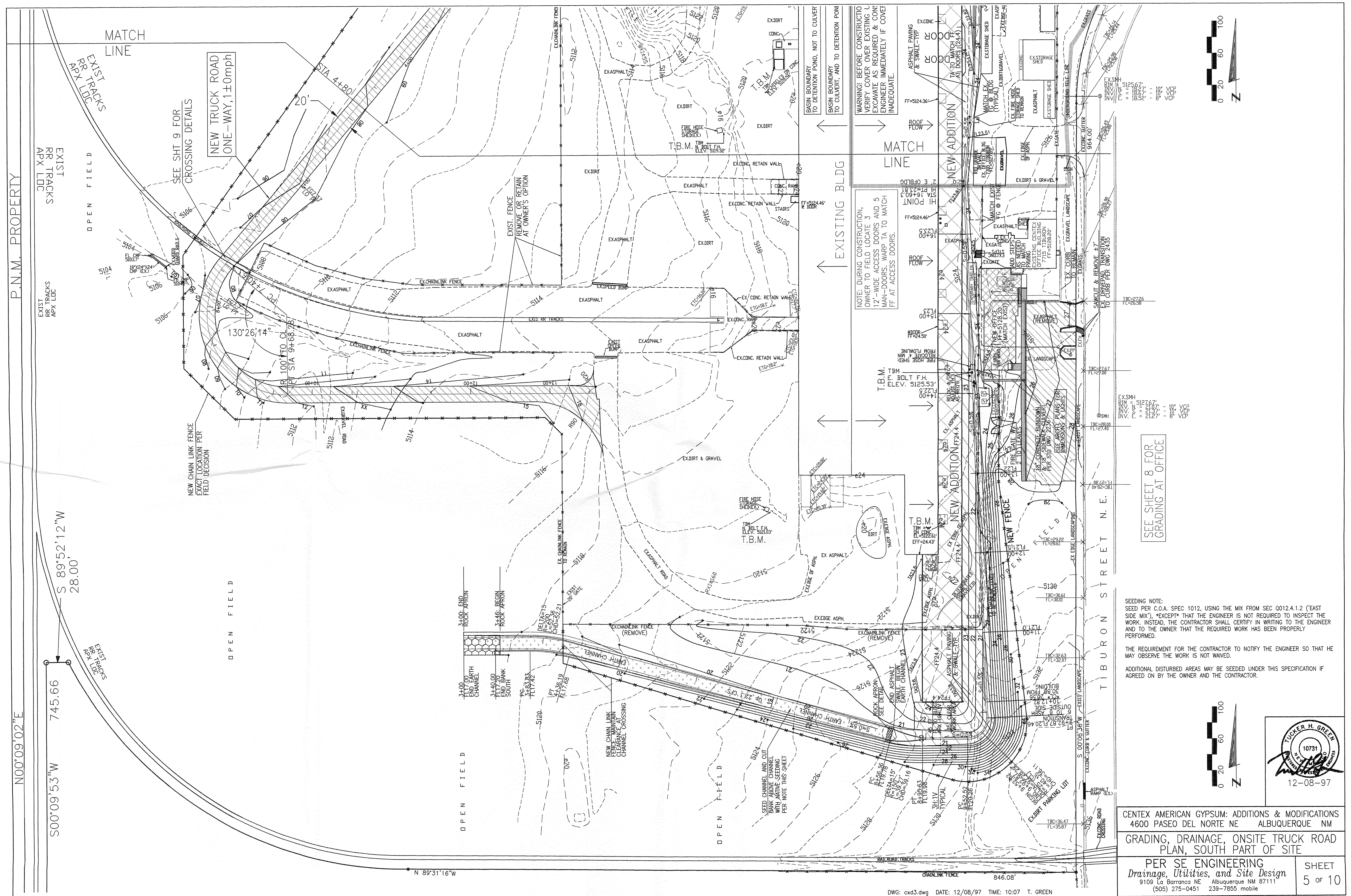
ID	X	Y
EB: EXISTING BUILDING-APX		
1	7,096.33	18,151.66
2	7,055.18	17,993.09
3	7,134.15	17,371.75
4	7,267.36	17,271.62
5	7,309.79	17,271.58
6	7,365.13	17,630.27
7	7,459.85	17,630.22
8	7,460.17	17,691.67
9	7,366.55	17,677.86
10	7,364.73	17,874.05
11	7,365.95	17,980.44
12	7,311.67	18,137.48

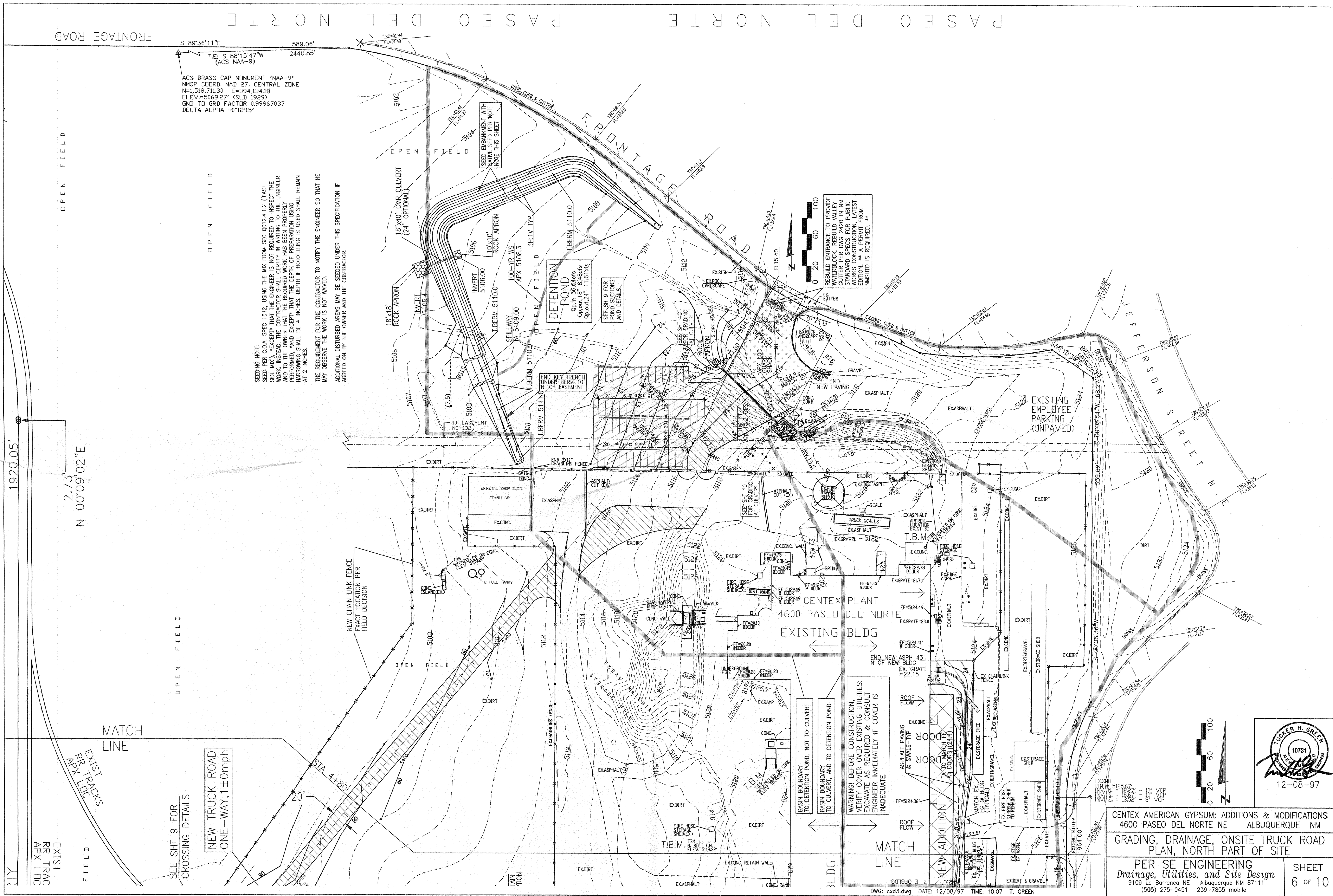
ID	X	Y
PL: PROPERTY LINE		
1	6,912.61	18,636.80
2	7,060.82	18,518.47
3	7,464.23	18,408.82
4	7,515.55	17,966.03
5	7,485.34	17,836.60
6	7,483.49	16,872.60
7	6,637.44	16,879.67

TO CONVERT CO-ORDINATES OF
LAYOUT POINTS TO STATE PLANE
COORDINATES (AS PER SURVEYOR'S
DISK), ADD 390,000 TO X-VALUES,
AND 1,500,000 TO Y-VALUES.

BENCH MARK: ACS BRASS CAP NAA-9 AS
NOTED ON SHEET 3, ELEV 5089.27
TBM: E BOLT FH NEAR SW CORNER OF NEW
OFFICE BUILDING, ELEV 5125.53, AND OTHERS
AS NOTED ON SHEETS 3, 5, & 6.







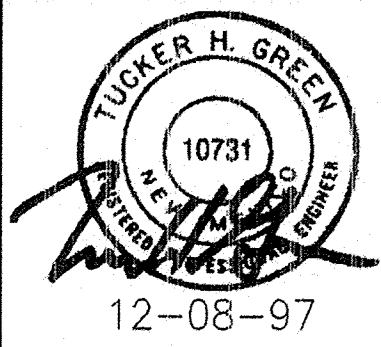
ACS BRASS CAP MONUMENT "NAA-9"
NMSD COORD. NAD 27, CENTRAL ZONE
N=1518.711.30 E=394134.18
ELEV.=5069.27' (SLD 1929)
GND TO GRD FACTOR 0.99967037
DELTA ALPHA -0'12'15"

SEEDING NOTE:
SEED PER C.O.A. SPEC 1012, USING THE MIX FROM SEC 0012.4.1.2 (EAST SIDE MIX). *EXCEPT* THAT THE ENGINEER IS NOT REQUIRED TO INSPECT THE WORK. INSTEAD, THE CONTRACTOR SHALL CERTIFY IN WRITING TO THE ENGINEER AND TO THE OWNER THAT THE REQUIRED WORK HAS BEEN PROPERLY PERFORMED. *AND EXCEPT* THAT THE DEPTH OF PREPARATION USING HARROWING SHALL BE 4 INCHES. DEPTH IF ROTOTILLING IS USED SHALL REMAIN AT 2 INCHES.
THE REQUIREMENT FOR THE CONTRACTOR TO NOTIFY THE ENGINEER SO THAT HE MAY OBSERVE THE WORK IS NOT WAIVED.
ADDITIONAL DISTURBED AREAS MAY BE SEEDING UNDER THIS SPECIFICATION IF AGREED ON BY THE OWNER AND THE CONTRACTOR.

REBUILD ENTRANCE TO PROVIDE WATERBLOCK, REBUILD VALLEY GUTTER PER DWG 2420 IN NM STANDARD SPECS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION. ** A PERMIT FROM NMHSID IS REQUIRED. **

WARNING! BEFORE CONSTRUCTION, VERIFY COVER OVER EXISTING UTILITIES. EXCAVATE AS REQUIRED & CONSULT ENGINEER IMMEDIATELY IF COVER IS INADEQUATE.

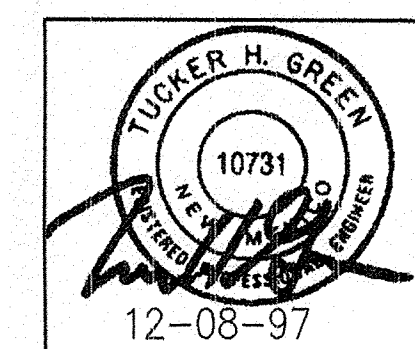
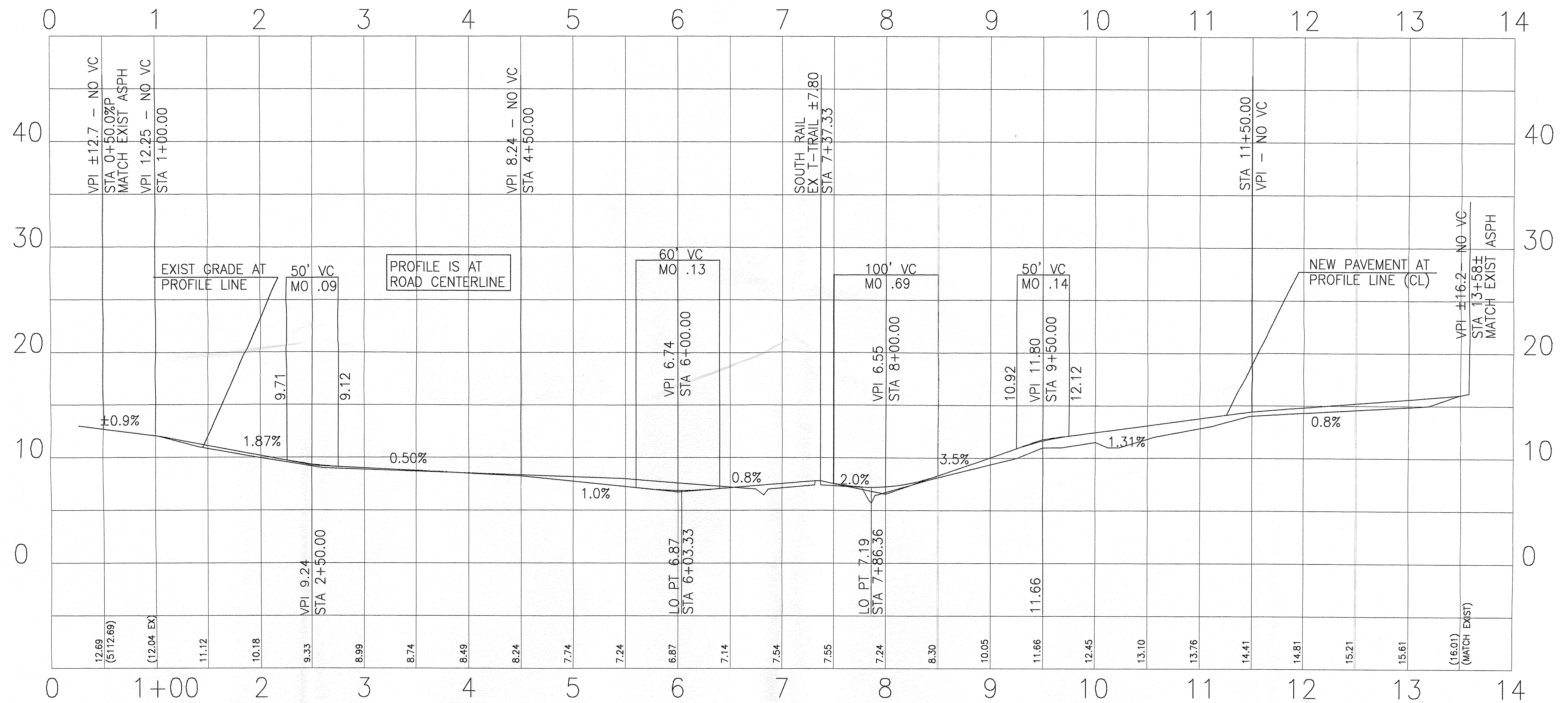
CENTEX AMERICAN GYPSUM: ADDITIONS & MODIFICATIONS 4600 PASEO DEL NORTE NE ALBUQUERQUE NM	
GRADING, DRAINAGE, ONSITE TRUCK ROAD PLAN, NORTH PART OF SITE	
PER SE ENGINEERING <i>Drainage, Utilities, and Site Design</i> 9109 La Barranca NE Albuquerque NM 87111 (505) 275-0451 239-7855 mobile	
SHEET 6 OF 10	



CENTEX - ALBUQUERQUE PLANT

ON-SITE TRUCK ROAD : 10 MPH & 1-WAY TRAFFIC

SEE SHEETS 2, 4, & 5 FOR PLAN VIEWS. SEE SHEET 3 FOR PLAN GEOMETRY DETAILS.



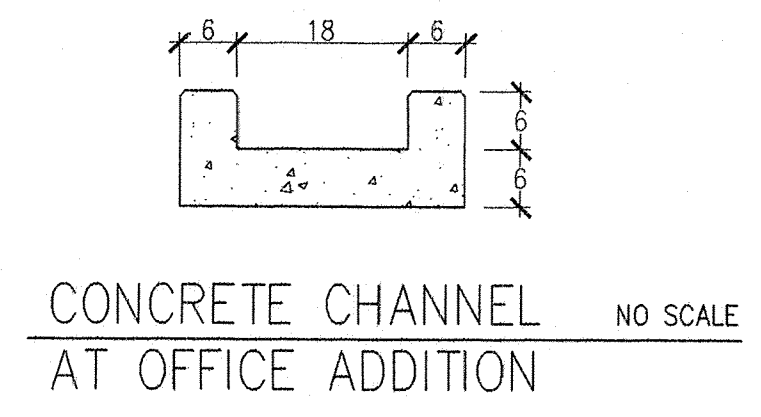
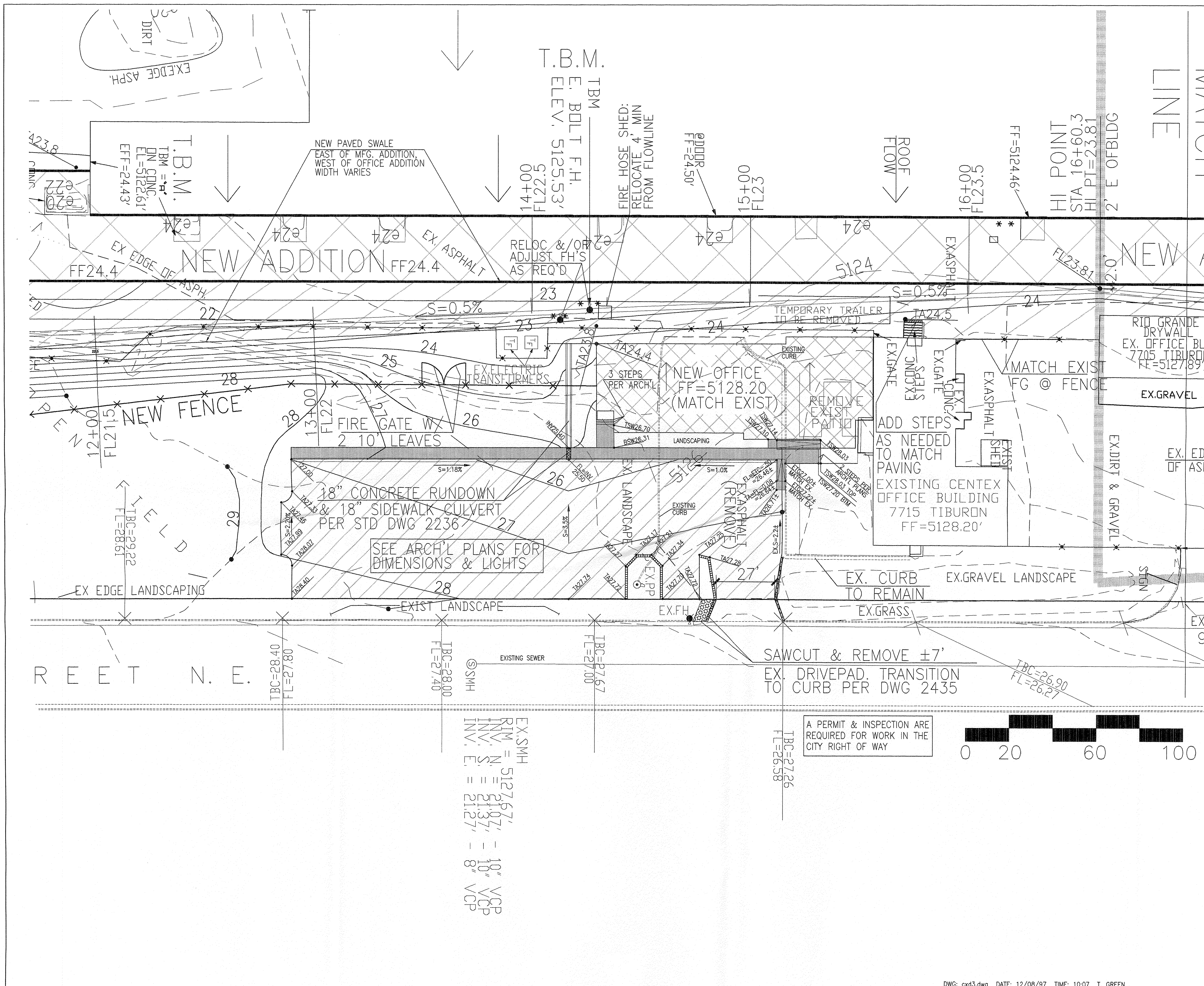
DWG: CXD2PNP.dwg DATE: 12/08/97 TIME: 13:44 T. GREEN

CENTEX AMERICAN GYPSUM: ADDITIONS & MODIFICATIONS
4600 PASEO DEL NORTE NE ALBUQUERQUE NM

GRADING, DRAINAGE, ONSITE TRUCK ROAD
TRUCK ROAD PROFILE

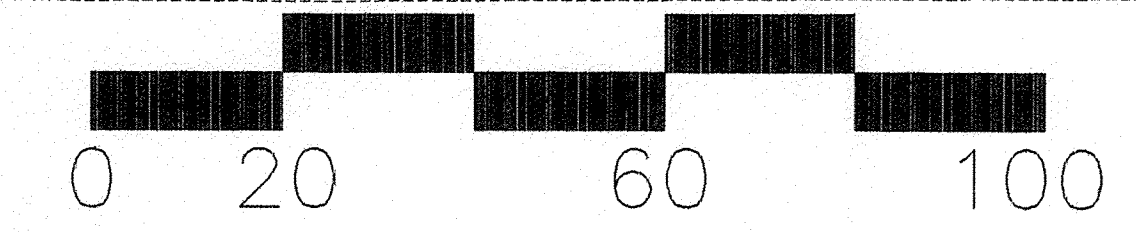
PER SE ENGINEERING
Drainage, Utilities, and Site Design
9109 La Barranta NE Albuquerque NM 87111
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SHEET
7 OF 10

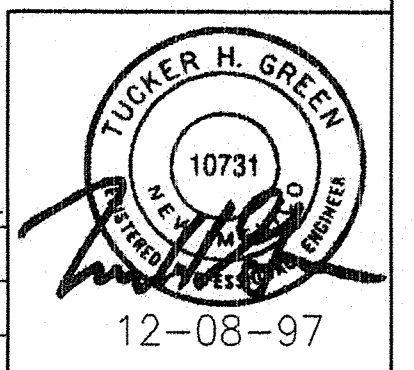


ALL NEW CURB & GUTTER TO BE 6" MEDIAN TYPE PER COA DWG 2415

SEE ARCH'L PLANS FOR EXISTING ITEMS TO BE REMOVED OR RELOCATED AS TO OFFICE ADDITION CONSTRUCTION

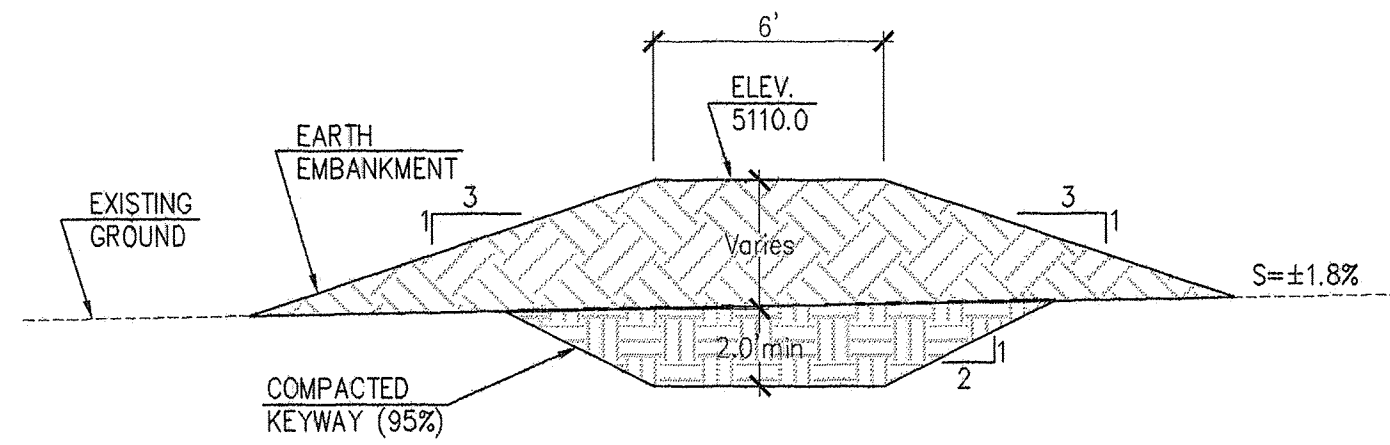


S.O. 19 APPROVALS FOR WORK IN CITY R.O.W.		
APPROVALS	NAME	DATE
A.C.E./HYDROLOGY		
INSPECTOR		
A.C.E./FIELD		
CENTEX AMERICAN GYPSUM: ADDITIONS & MODIFICATIONS 4600 PASEO DEL NORTE NE ALBUQUERQUE NM		
OFFICE ADDITION GRADING 7715 TIBURON STREET N.E.		
PER SE ENGINEERING Drainage, Utilities, and Site Design 9109 La Barranca NE Albuquerque NM 87111 (505) 275-0451 239-7855 mobile		SHEET 8 OF 10

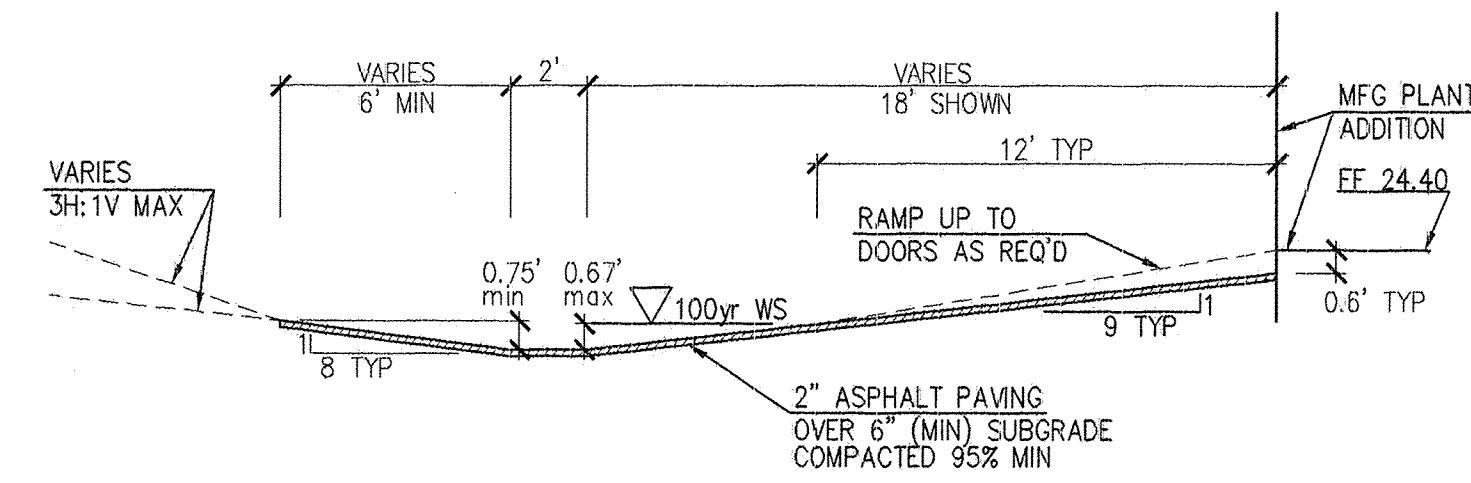


COMPACT EMBANKMENT & KEYWAY TO 95% MIN PER ASTM D-1557. AFTER CONSTRUCTION, PREPARE SURFACE OF EMBANKMENT FOR SEEDING AS SPECIFIED.

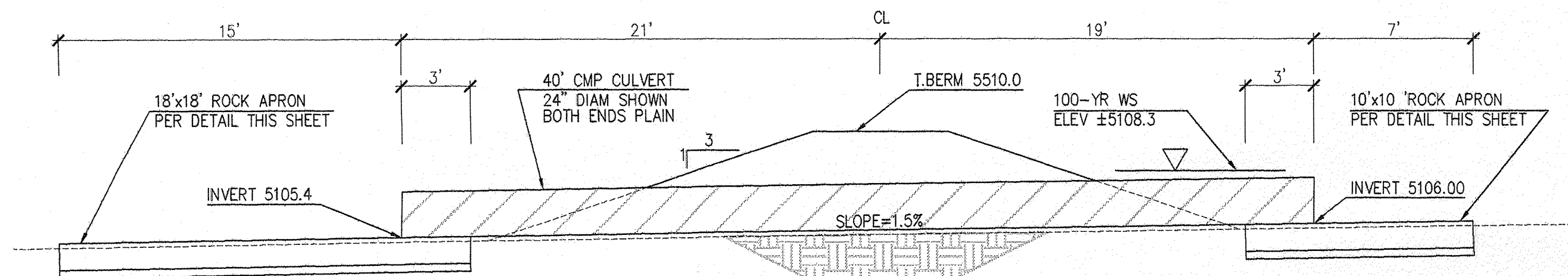
CLEAR & GRUB ENTIRE AREA UNDER EMBANKMENT, THEN SCARIFY 6 INCHES AND COMPACT TO 90% MIN PER ASTM D-1557.



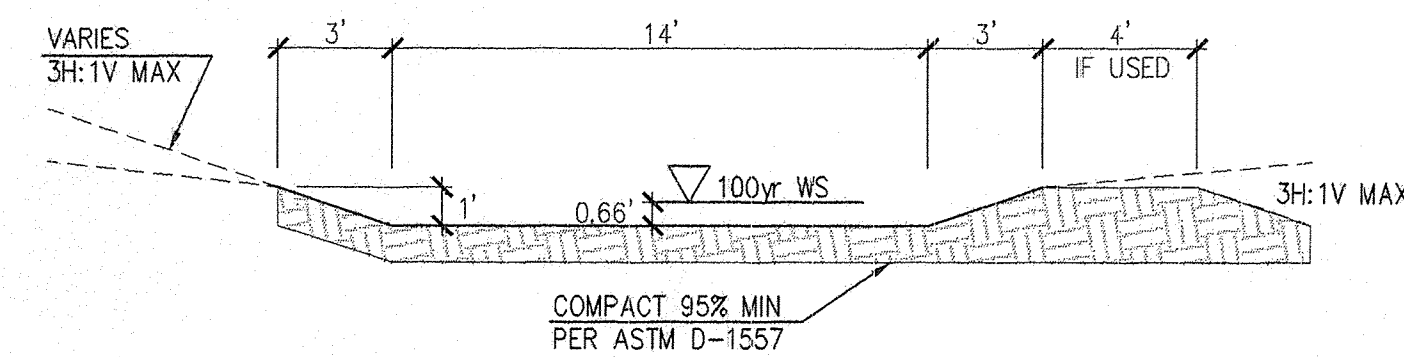
TYPICAL EMBANKMENT SECTION NO SCALE
AT DETENTION POND



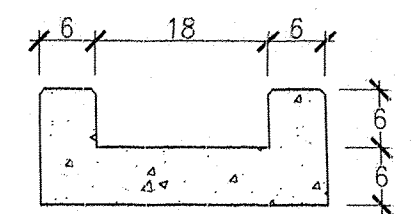
ASPHALT SWALE EAST OF MFG PLANT ADDITION NO SCALE
Qp=16.8cfs S=0.5% n=0.017 Y=0.67' V=3.26fps



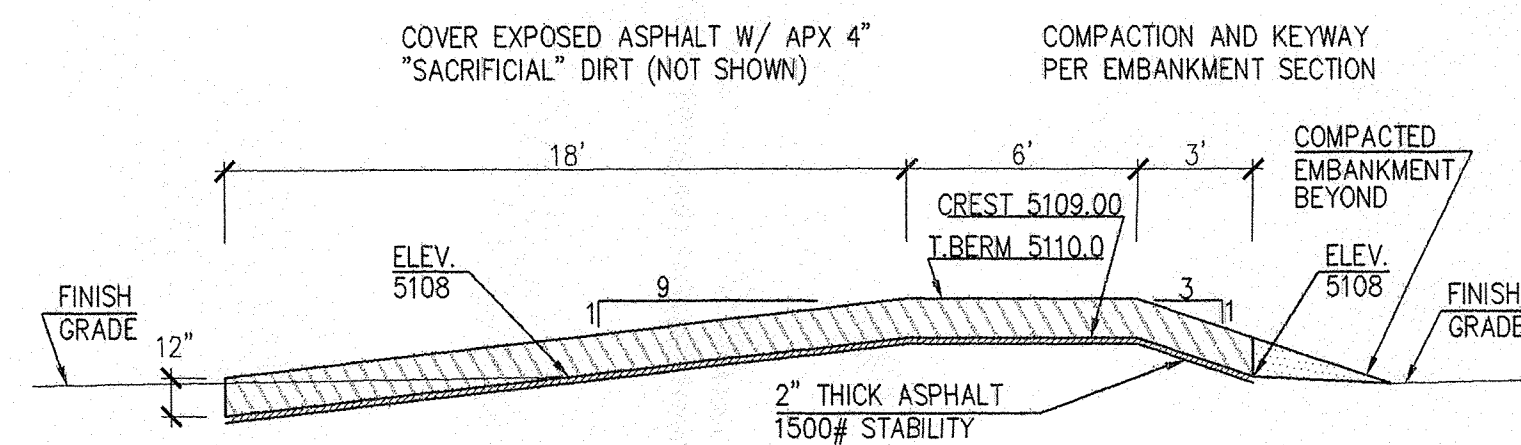
EMBANKMENT SECTION NO SCALE
AT CMP CULVERT OUTLET



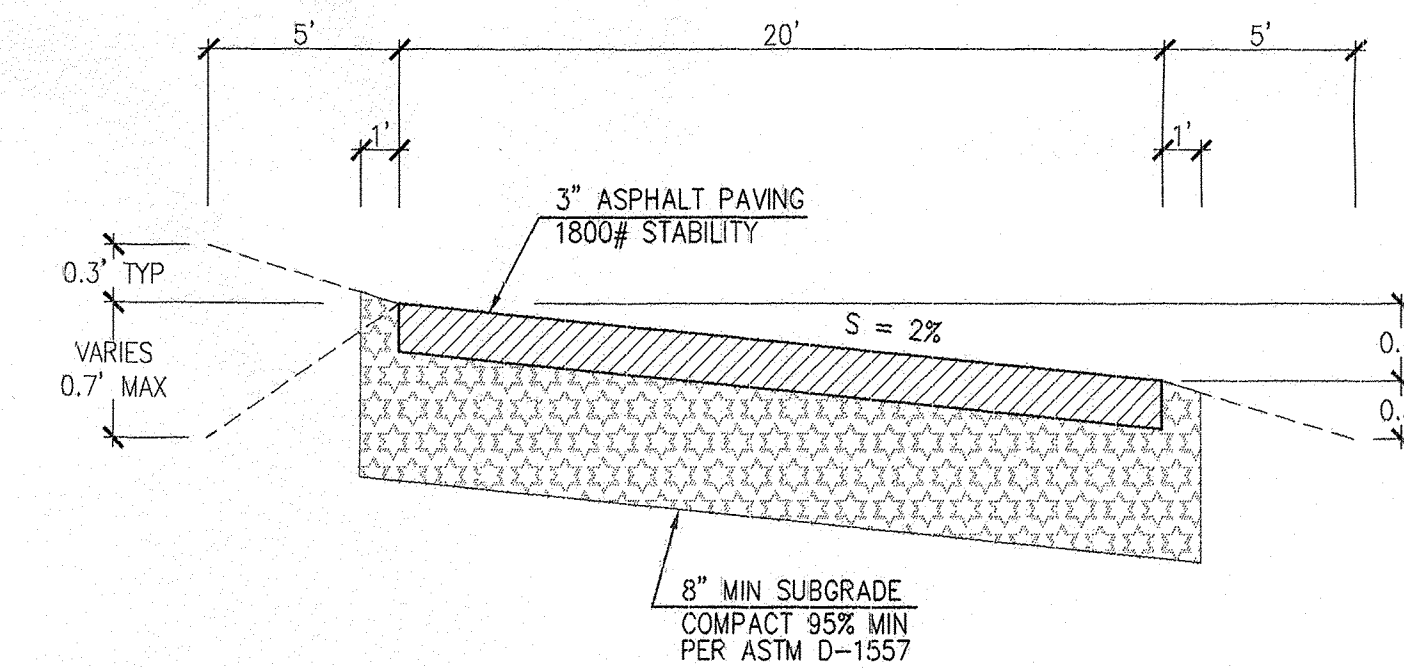
EARTH CHANNEL SOUTH OF MFG PLANT NO SCALE
Qp=22.25 cfs S=0.5% n=0.035 Y=0.66' V=2.10fps



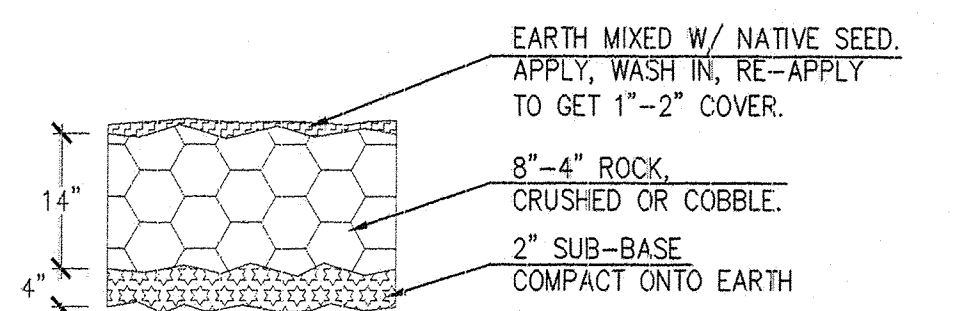
CONCRETE CHANNEL NO SCALE
AT OFFICE ADDITION



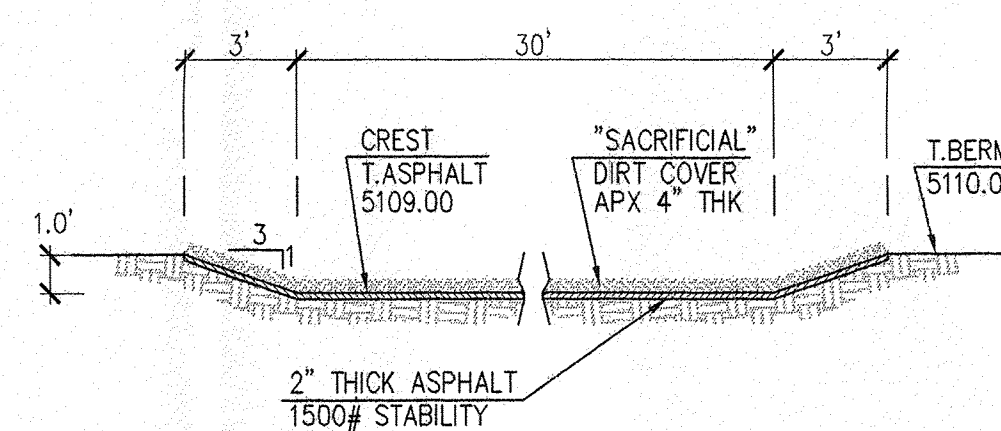
EMERGENCY SPILLWAY TRANSVERSE SECTION NO SCALE
AT Q = Qpeak100yr into pond = 37.05cfs, & C=3, DEPTH REQUIRED = 0.55'



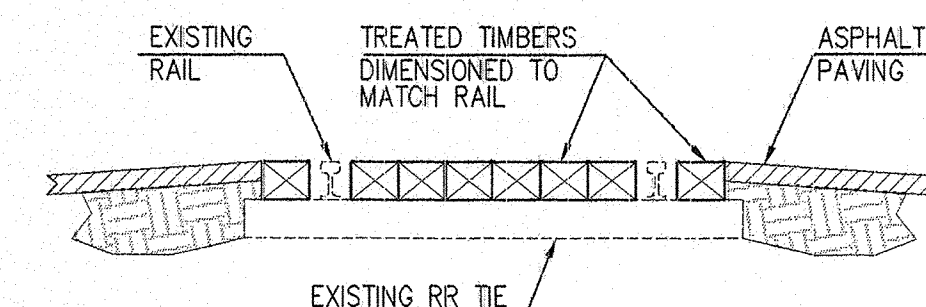
PAVEMENT SECTION NO SCALE
SLOW SPEED PRIVATE ON-SITE TRUCK ROAD



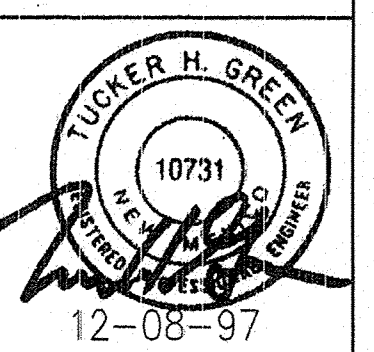
ROCK APRON AND SLOPE PAVING NO SCALE



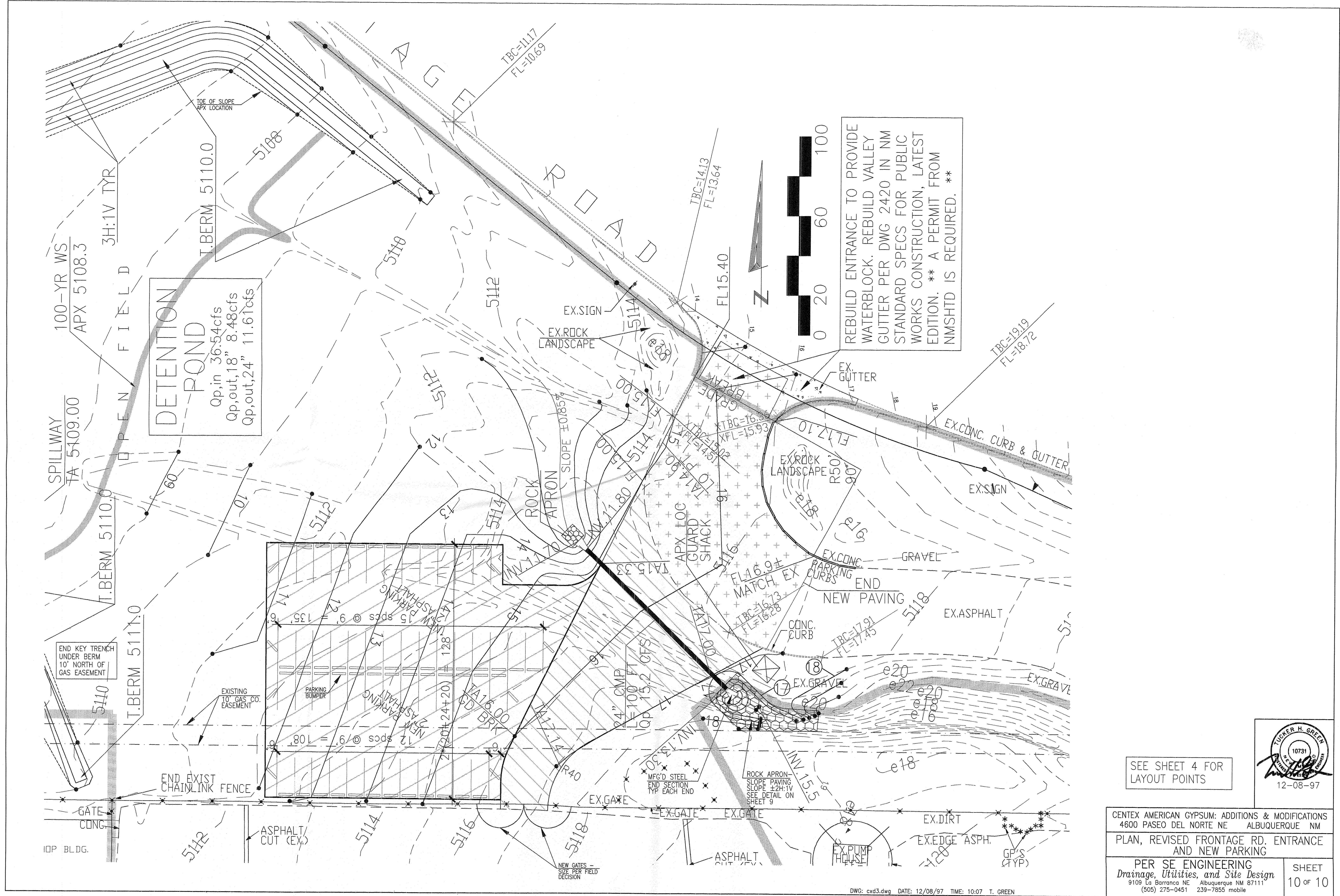
EMERGENCY SPILLWAY LONGITUDINAL SECTION NO SCALE



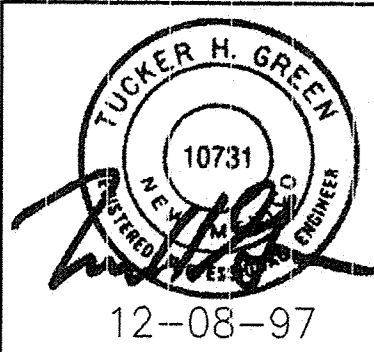
SCHEMATIC RR TRACK CROSSING NO SCALE
FOR SLOW SPEED PRIVATE ON-SITE TRUCK ROAD
FINAL FIELD DETAILS PER CONTRACTOR EXPERIENCED IN THIS KIND OF WORK



CENTEX AMERICAN GYPSUM: ADDITIONS & MODIFICATIONS 4600 PASEO DEL NORTE NE ALBUQUERQUE NM	
GRADING, DRAINAGE, ONSITE TRUCK ROAD DETAILS	
PER SE ENGINEERING Drainage, Utilities, and Site Design 9109 La Barranca NE Albuquerque NM 87111 (505) 275-0451 239-7855 mobile	SHEET 9 OF 10



SEE SHEET 4 FOR
LAYOUT POINTS



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4600 PASEO DEL NORTE NE ALBUQUERQUE NM

PLAN, REVISED FRONTAGE RD. ENTRANCE
AND NEW PARKING

PER SE ENGINEERING
Drainage, Utilities, and Site Design
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