RECORD DRAWINGS

SCANNED BY PLANNING

2 3 4 5 6 7 8 9 10 11 12 13 14 15
2I0-554H.I83-20I0

CONSTRUCTION PLANS FOR

CARPENTERS CENTER

ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
AUGUST 2008

INDEX TO DRAWINGS

01. TITLE SHEET
02A. PLAT
02B. PLAT
03. SITE PLAN
04. GRADING PLAN SHT–1
05. GRADING PLAN SHT–2
06. PAVING IMPROVEMENTS:
VASSAR DRIVE NE. STA: 10+00 TO STA: 16+90.47
07. PAVING IMPROVEMENTS:
FRONTAGE ROAD AND COMANCHE
08. SIGNING & STRIPING IMPROVEMENTS:
FRONTAGE ROAD AND COMANCHE
09. MASTER UTILITY PLAN
10. UTILITY IMPROVEMENTS:
SITE, 10" WATERLINE STA: 9+50 TO STA: 15+00
11. UTILITY IMPROVEMENTS:
SITE, 10" WATERLINE STA: 15+00 TO STA: 23+00
12. UTILITY IMPROVEMENTS:
SITE, 8" WATERLINE, 8" SANITARY SEWER STA: 9+50 TO STA: 18+50
13. UTILITY IMPROVEMENTS:
SITE, 8" SANITARY SEWER, STA: 10+00 to 15+00
14. UTILITY IMPROVEMENTS:
SAS SECTION DETAIL
15. STORM DRAIN IMPROVEMENTS
SITE, 48" RCP STA: 10+00 TO 17+11.00
16. STORM DRAIN IMPROVEMENTS
COMANCHE AND FRONTAGE ROAD
17. DETAILS
17A. DETAILS
17B. PAVING IMPROVEMENTS VASSAR DRIVE NE STA: 16+50 to 21+00
17C. POND GRADING IMPROVEMENTS VASSAR DRIVE NE STA 16+50 to 21+00
18 TRAFFIC SIGNAL IMPROVEMENTS
NOTES AND LEGEND
19. TRAFFIC SIGNAL IMPROVEMENTS
COMANCHE AND PAN AMERICAN FRONTAGE ROAD (NORTH BOUND)
20. CABLES AND CONDUITS
21. CONTROLLER CABINET AND PEDESTAL FOUNDATION DETAILS
22. MASTARM DETAILS – TYPE III STANDARD – A
23. MASTARM DETAILS – TYPE III STANDARD – B
24. MISCELLANEOUS DETAILS A – TYPE III STANDARD
25. MISCELLANEOUS DETAILS B – TYPE III STANDARD
26. OPTICAL DETECTOR INSTALLATION DETAILS
27. PULL BOX DETAILS
28. FOUNDATION DETAILS – TYPE II AND TYPE III STANDARD

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 12/28/10

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys, , NMPS number 18374 .

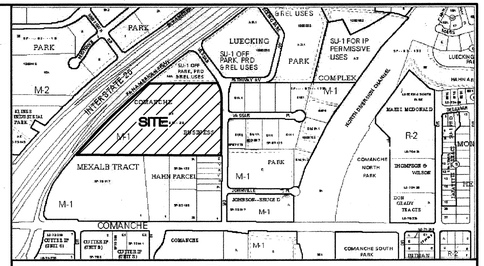
RONALD R. BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER

SURVEYOR'S CERTIFICATION

I, BRIAN J. MARTINEZ, A DULY QUALIFIED, REGISTERED, PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND "AS-BUILT" SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS ADDED BY ME OR UNDER MY SUPERVISION, AND THAT THIS "AS-BUILT" INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. CARTESIAN SURVEYS IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORDED DRAWINGS.

5/25/10
BRIAN J. MARTINEZ, NMPS 18374

BRIAN J. MARTINEZ NEW MEXICO 18374 PROFESSIONAL SURVEYOR



VICINITY MAP G–16–Z

SCALE NONE

NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HERE ON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7 INCLUDING AMENDMENT 1.

2. TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260–1990) FOR LOCATION OF EXISTING UTILITIES.

3. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION; CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924–3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

4. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACE ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS UPDATE NO. 7.

5. ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS). THE CONTRACTOR SHALL NOTIFY THE ABCWUA (857–8200) THREE (3) WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES.

6. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

7. THE CONTRACTOR SHALL COORDINATE WITH ABCWUA (857–8200) SEVEN (7) WORKING DAYS PRIOR TO ANY WORK IN WHICH MAY AFFECT THE EXISTING ABCWUA PUBLIC WATER OR SEWER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. EXISTING PUBLIC VALVES TO BE OPERATED BY ABCWUA PERSONNEL ONLY. REFER TO SECTION 18 OF THE STANDARD SPECIFICATIONS.

8. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED–OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P AND COA STD DWG 2465.

9. ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.

10. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

11. TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.

12. PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

13. CONTRACTOR SHALL MAINTAIN A GRAFFITI–FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

14. ALL WATER VALVE BOXES MANHOLES IN THE STREET CONSTRUCTION TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH

15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE PAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

DRB # 1006865

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
505–858–3100

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE
RONALD R. BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER 11/10/08	DRC Chairman	JWoodall 11/18/08	10/31/08
	Transportation	(11/18/08)	9/17/08
	Water/Wastewater	Jarrell	9-11-08
	Hydrology	Bradley L. Bingham	9/11/08
	AMAFCA		
	Constr. Mgmt.		
	Constr. Coord.		

RONALD R. BOHANNAN
P.E. #7868

CITY PROJECT NO. 554483

APPROVED FOR CONSTRUCTION

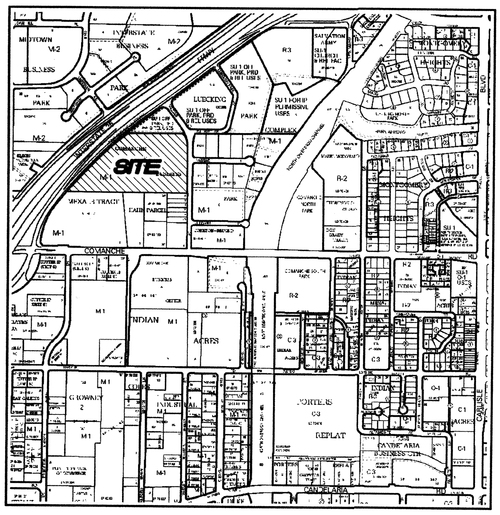
TITLE SHEET

Richard Dourte 5-06-09
City Engineer Date

01 OF 28

SCANNED BY PLANNING

PLAT OF
TRACT A-1-A
COMANCHE BUSINESS PARK
(BEING A REPLAT OF TRACT A-1, COMANCHE BUSINESS PARK)
SITUATE WITHIN
SECTION 3, TOWNSHIP 10 NORTH, RANGE 3 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE, 2008



VICINITY MAP
NOT TO SCALE

PROJECT NUMBER: 1006865
Application Number: 08 DRB- 70285

TREASURERS CERTIFICATION

This is to certify that taxes are current and paid on the following:
Listed Parcels
Mex Alb Corp A New Mexico
8/5/08 Date
Bernalillo County Treasurer

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:

A. PNM Electric Services for installation, maintenance, and service of underground electrical lines, transformers, and other equipment and related facilities reasonably necessary to provide electrical service.

B. PNM Gas Services for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.

C. QWest Corporation for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to ground pedestals and closures.

D. Comcast Cable for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV service.

Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (aboveground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electrical Safety Code by construction of pools, decking, or any structures adjacent to or near easements shown on this plat.

Easements for electric transformers/switchgears, as installed, shall extend ten feet (10') in front of transformer/switchgear doors and five feet (5') on each side.

DISCLAIMER
In approving this plat, PNM Electric Services and Gas Services (PNM) did not conduct a Title Search of the properties shown hereon. Consequently, PNM does not waive nor release any easement or easement rights to which it may be entitled.

PLAT APPROVAL

Utility Approvals:

PNM Electric Services	July 21, 2008 Date
PNM Gas Services	July 21, 2008 Date
QWest Corporation	7/17/08 Date
Comcast	6.19.08 Date

City Approvals:

City Surveyor, Department of Municipal Development	6-19-08 Date
Real Property Division	N/A Date
Environmental Health Department	N/A Date
Traffic Engineering, Transportation Division	7-9-08 Date
ABCWUA	7-9-08 Date
Parks and Recreation Department	7/9/08 Date
AMAFCA	7/9/08 Date
City Engineer	7/9/08 Date
DRB Chairperson, Planning Department	7-21-08 Date

GENERAL NOTES

1. Bearings are New Mexico State Plane Grid Bearings (Central Zone – NAD 83) originated at the New Mexico State Highway Commission Monument "1–25–20".
2. Distances are ground.
3. Distances along curved lines are arc lengths.
4. Record Plat or Deed bearings and distances, where they differ from those established by this field survey, are shown in parentheses ( ).
5. All corners found in place and held were tagged with a brass disk stamped "HUGG L.S. 9750" or "HUGG L.S. 11808" unless otherwise indicated hereon.
6. All corners that were set are either a 5/8" rebar with cap stamped "HUGG L.S. 9750" or "HUGG L.S. 11808" or a concrete nail with brass disk stamped "HUGG L.S. 9750" or "HUGG L.S. 11808" unless otherwise indicated hereon.
7. U.C.L.S. Log Number: 2008223268
8. City of Albuquerque Zone Atlas: Page G–16–Z

SUBDIVISION DATA

Total number of existing Tracts: 1
Total number of new Tracts created: 1
Gross Subdivision acreage: 15.7083 acres

No property within the area of this plat shall at any time be subject to a deed restriction, covenant, or binding agreement prohibiting solar collectors from being installed on buildings or erected on lots or parcels within the area of proposed plat. The foregoing requirement shall be a condition to approval of this plat.

PURPOSE OF PLAT:

The Purpose of this plat is to:

a. Create 1 New Tract from existing Tract "A–1", Comanche Business Park
b. Grant the Public and Private Easements as shown hereon.
c. Dedicate the additional street right of way, as shown hereon, to the City of Albuquerque in fee simple with warranty covenants.

SURVEYOR'S CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that this plat of survey was prepared from field notes of an actual ground survey performed by me or under my direct supervision; that it meets the Standards for Land Surveys in the State of New Mexico as adopted by the New Mexico State Board of Registration for Professional Engineers and Professional Surveyor's; that it meets the minimum requirements for surveys and monumentation of the Albuquerque Subdivision Ordinance; that it shows all easements of record; and that it is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
June 4, 2008

DOC# 2008088162
06/05/2008 04:16 PM Page: 1 of 4
tyPLAT R $22.00 B: 2008C P: 0172 M. Toulous Olivere, Bernalillo Cour

080285.dwg

SURVTEK, INC.
Consulting Surveyors
9384 Valley View Drive, N.W. Albuquerque, New Mexico 87114
Phone: 505-897-3366 Fax: 505-897-3377

SHEET 1 OF 4

P:\Rusty\080285\dwg\080285.dwg, 6/18/2008 7:04:13 AM, HP1050C_2.pc3

PLAT OF
TRACT A-1-A
COMANCHE BUSINESS PARK
(BEING A REPLAT OF TRACT A–1, COMANCHE BUSINESS PARK)
SITUATE WITHIN
SECTION 3, TOWNSHIP 10 NORTH, RANGE 3 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE, 2008

LEGAL DESCRIPTION

Tract A–1, Comanche Business Park, within Section 3, Township 10 North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, as the same is shown and designated on plat entitled "PLAT OF TRACT A–1, COMANCHE BUSINESS PARK, ALBUQUERQUE, NEW MEXICO, SEPTEMBER, 1998" filed in the office of the County Clerk of Bernalillo County, New Mexico, on December 14, 1998 in Plat Book 98C, Page 349.

Said parcel contains 15.7083 acres, more or less.

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD BEARING	DELTA
C1	940.44' (940.37')	5607.00'	471.33'	939.34' (939.27')	N45°10'29"E (N45°10'51"E)	9°36'36" (9°36'33")
C2	184.08' (184.07')	417.00'	93.57'	182.59' (182.58')	S12°11'14"E (S12°11'12"E)	25°17'35" (25°17'29")
C3	92.17'	432.00'	46.26'	91.99'	N21°44'29"W	12°13'26"
C4	94.07'	335.00'	47.35'	93.76'	N07°35'07"W	16°05'19"
C5	26.83'	17.33'	16.94'	24.23'	N44°48'14"E	88°41'23"
C6	27.57'	17.24'	17.74'	24.73'	N45°21'36"W	91°38'18"
C7	214.58'	5607.00'	107.30'	214.57'	S48°53'00"W	2°11'34"
C8	22.55'	5607.00'	11.27'	22.55'	S47°40'19"W	0°13'49"
C11	20.62'	30.00'	10.74'	20.22'	S26°24'26"E	39°23'05"

LINE TABLE

LINE	LENGTH	BEARING
L1	75.05	S00°27'33"W
L2	61.45	S01°12'16"W
L3	2.68	S89°38'15"E
L4	28.59	S01°12'16"W
L5	32.85	S01°12'16"W
L6	27.92	N89°59'20"E
L7	33.41	N89°59'20"E
L8	42.39	S00°00'00"W
L9	42.75	S00°00'40"E
L10	29.72	S06°46'53"E
L11	29.50	N00°00'00"E
L12	34.00	S00°00'00"E

FREE CONSENT AND DEDICATION

SURVEYED AND REPLATTED and now comprising "PLAT OF PLAT OF TRACT A–1–A, COMANCHE BUSINESS PARK (BEING A REPLAT OF TRACT A–1, COMANCHE BUSINESS PARK) SITUATE WITHIN SECTION 3, TOWNSHIP 10 NORTH, RANGE 3 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO", is with the free consent of and in accordance with the wishes and desires of the undersigned owner(s) and proprietors(s). Said owner(s) and proprietor(s) do hereby warrant that they hold among them complete and indefeasible title in fee simple to the land subdivided. Said owner(s) and proprietor(s) do hereby grant the public and private easements as shown hereon. Said owner(s) and proprietor(s) do hereby dedicate the additional street right of way, as shown hereon, to the City Albuquerque in fee simple with warranty covenants. Said owner(s) and proprietor(s) do hereby consent to all of the foregoing and do heraby certify that they are so authorized to act.

OWNER

Southwest Regional Council of Carpenters

By: Randy J. Sowell
Randy J. Sowell, Director of Real Estate

ACKNOWLEDGMENT

STATE OF California
COUNTY OF Los Angeles SS

The foregoing instrument was acknowledged before me this 13th day of June, 2008, by Randy J. Sowell, Director of Real Estate, United Brotherhood of Carpenters & Joiners of America on behalf of the Southwest Regional Council of Carpenters

Notary Public My commission expires December 15, 2009

California Notary Public Commission # 1691171 Notary Public - California Los Angeles County My Comm. Expires Dec 15, 2009

DOC# 2008088162
06/05/2008 04:16 PM Page: 2 of 4
tyPLAT R $22.00 B: 2008C P: 0172 M. Toulous Olivere, Bernalillo Cour

080285.dwg

SURVTEK, INC.
Consulting Surveyors
9384 Valley View Drive, N.W. Albuquerque, New Mexico 87114
Phone: 505-897-3366 Fax: 505-897-3377

SHEET 2 OF 4

2A

X:\Rusty\080285\dwg\080285.dwg, 6/11/2008 1:52:27 PM, HP1050C_2.pc3

SCANNED BY PLANNING

NEW EASEMENTS

(A) Public Water Line and Sanitary Sewer Easement granted to the Albuquerque Bernalillo County Water Utility Authority by this plat.

(B) 20' Public Water Line Easement granted to the Albuquerque Bernalillo County Water Utility Authority by this plat.

(C) 20' Public Sanitary Sewer Easement granted to the Albuquerque Bernalillo County Water Utility Authority by this plat.

(D) Public Storm Drain Easement granted to the City of Albuquerque by this plat.

(E) 7' Public Utility Easement granted by this plat.

(F) Private Access Easement granted for the benefit of Tract A-4A, Luecking Park Complex No. 2 and No. 3, by this plat. Maintenance of said easement to be the responsibility of the owners of said Tract A-4A and Tract A-1-A, Comanche Business Park. 0.4194 Ac.

(G) Sidewalk Easement granted to the City of Albuquerque by this plat.

(H) 5' Public Utility Easement granted by this plat.

No property within the area of this plat shall at any time be subject to a deed restriction, covenant, of binding agreement prohibiting solar collectors from being installed on buildings or erected on lots or parcels within the area of proposed plat. The foregoing requirement shall be a condition to approval of this plat.

PLAT OF
TRACT A-1-A
COMANCHE BUSINESS PARK
(BEING A REPLAT OF TRACT A-1, COMANCHE BUSINESS PARK)
SITUATE WITHIN
SECTION 3, TOWNSHIP 10 NORTH, RANGE 3 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE, 2008

NEW MEXICO STATE HIGHWAY COMMISSION MONUMENT "1-25-20"
N.M. State Plane Coordinates (Central Zone - NAD83)
North = 1,502,367.513
East = 1,530,649.760
Delta Alpha = -0°12'40.48"
Ground to Grid Factor = 0.999674593

Found 3/4" rebar w/alum. disk stamped "LS 11184"

INTERSTATE HIGHWAY 25
PAN AMERICAN FREEWAY
(Right of Way Width Varies)

Existing 10' Public Utility Easement granted by plat filed December 14, 1998 in Plat Book 98C, Page 349.

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD BEARING	DELTA
C13	49.05'	159.37'	24.72'	48.86'	N51°38'42"E	17°38'08"
C14	372.02'	5436.21'	186.08'	371.95'	S44°48'34"W	3°55'16"
C15	210.74'	5607.00'	105.38'	210.73'	S41°26'47"W	2°09'12"
C16	24.79'	23.33'	13.71'	23.64'	S83°44'32"W	60°53'02"
C17	9.73'	30.00'	4.91'	9.69'	N75°12'22"W	18°34'59"
C18	11.82'	23.33'	6.04'	11.70'	S13°10'55"E	29°01'58"
C19	15.03'	5607.00'	7.51'	15.03'	S47°42'37"W	0°09'13"
C20	45.61'	30.00'	28.52'	41.34'	N89°39'06"W	87°06'16"
C21	74.42'	5607.00'	37.21'	74.42'	S47°10'35"W	0°45'38"
C22	418.16'	5607.00'	209.18'	418.06'	S44°39'35"W	4°16'23"

GRAPHIC SCALE
60 0 30 60 120
(IN FEET)
1 inch = 60 ft.

Existing 10' Public Utility Easement granted by plat filed December 14, 1998 in Plat Book 98C, Page 349.

TRACT A-1-A
15.6299 Ac.

TRACT A-1
COMANCHE BUSINESS PARK
Filed December 14, 1998 in Plat Book 98C, Page 349

NOTE
This property is subject to a Blanket Public Drainage Easement as noted on the plat filed May 4, 1989 in Volume C39, Folio 34, granted by said plat with the understanding that the specific alignment and location will be determined upon the development of any of the lots subdivided on said plat, or the construction of Vassar Drive N.E. as dedicated on said plat, whichever comes first.

SEE SHEET 4

Found 5/8" rebar w/alum. disk stamped "LS 11184"

Variable width Drainage Easement as shown on plat filed April 26, 1976 in Volume D7, Folio 22.

Variable width Drainage Easement as shown on plat filed February 8, 1974 in Volume D6, Folio 22.

TRACT 1
MEXALB TRACT
Filed April 26, 1976 in Volume D7, Folio 22

PARCEL 1
HAHN PARCEL
Filed June 16, 1982 in Volume C19, Folio 171

DOC# 2008088162
09/05/2008 04:16 PM Page 3 of 4
typ:PLAT R:$25.00 B: 2008C P: 0172 M. Toulous Olivere, Bernalillo Cour

080285.dwg

SURVTEK, INC.
Consulting Surveyors
9384 Valley View Drive, N.W. Albuquerque, New Mexico 87114
Phone: 505-897-3366
Fax: 505-897-3377

PLAT OF
TRACT A-1-A
COMANCHE BUSINESS PARK
(BEING A REPLAT OF TRACT A-1, COMANCHE BUSINESS PARK)
SITUATE WITHIN
SECTION 3, TOWNSHIP 10 NORTH, RANGE 3 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE, 2008

NEW MEXICO STATE HIGHWAY COMMISSION MONUMENT "1-25-20"
N.M. State Plane Coordinates (Central Zone - NAD83)
North = 1,502,367.513
East = 1,530,649.760
Delta Alpha = -0°12'40.48"
Ground to Grid Factor = 0.999674593

TRACT A-4A
LUECKING PARK COMPLEX
NO. 2 AND NO. 3
Filed September 14, 2000 in Plat Book 2000C, Page 41

7' Utility Easement as shown on plat filed July 3, 1980 in Volume C17, Folio 9

Existing 20' Public Storm Drain Easement granted by plat filed September 14, 2000 in Plat Book 2000C, Page 241

PATHWAY AVENUE N.E.

Set 5/8" rebar w/cap stamped "LS 9750" (typ.)

Additional street right of way dedicated to the City of Albuquerque in fee simple with warranty covenants by this plat. 0.0783 Ac. (cross hatched area)

Existing 10' Public Utility Easement granted by plat filed December 14, 1998 in Plat Book 98C, Page 349.

VASSAR PLACE N.E.

Found centerline Monument stamped "LS 11184"

Additional street right of way dedicated to the City of Albuquerque in fee simple with warranty covenants by this plat. 0.0783 Ac. (cross hatched area)

VASSAR DRIVE N.E.
(60' Right of Way)

NEW MEXICO STATE HIGHWAY COMMISSION MONUMENT "M-6"
N.M. State Plane Coordinates (Central Zone - NAD83)
North = 1,503,215.185
East = 1,533,745.194
Delta Alpha = -0°12'19.10"
Ground to Grid Factor = 0.999672339
Elevation = 5113.206 (NAVD 1988)

LINE TABLE		
LINE	LENGTH	BEARING
L13	6.67'	N23°44'15"E
L14	47.36'	N44°26'12"E
L15	6.70'	N68°27'11"E
L16	27.78'	S00°00'40"E
L17	40.79'	S00°00'04"W

NEW EASEMENTS

(A) Public Water Line and Sanitary Sewer Easement granted to the Albuquerque Bernalillo County Water Utility Authority by this plat.

(B) 20' Public Water Line Easement granted to the Albuquerque Bernalillo County Water Utility Authority by this plat.

(C) 20' Public Sanitary Sewer Easement granted to the Albuquerque Bernalillo County Water Utility Authority by this plat.

(D) Public Storm Drain Easement granted to the City of Albuquerque by this plat.

(E) 7' Public Utility Easement granted by this plat.

(F) Private Access Easement granted for the benefit of Tract A-4A, Luecking Park Complex No. 2 and No. 3, by this plat. Maintenance of said easement to be the responsibility of the owners of said Tract A-4A and Tract A-1-A, Comanche Business Park. 0.4194 Ac.

(G) Sidewalk Easement granted to the City of Albuquerque by this plat.

(H) 5' Public Utility Easement granted by this plat.

SEE SHEET 3

TRACT A-1-A
15.6299 Ac.

TRACT A-1
COMANCHE BUSINESS PARK
Filed December 14, 1998 in Plat Book 98C, Page 349

NOTE
This property is subject to a Blanket Public Drainage Easement as noted on the plat filed May 4, 1989 in Volume C39, Folio 34, granted by said plat with the understanding that the specific alignment and location will be determined upon the development of any of the lots subdivided on said plat, or the construction of Vassar Drive N.E. as dedicated on said plat, whichever comes first.

Existing 5' PNM & MST&T Easement granted by document filed July 31, 1984 in Book Misc 139A, Page 760

Existing Storm Drain Easement granted by document filed February 14, 1995 in Book 95-4, Page 4184

Existing 7' PNM & MST&T Easement granted by document filed July 31, 1984 in Book Misc 139A, Page 760

Found 1/2" rebar w/cap stamped "LS 4078"

Set 5/8" rebar w/cap stamped "LS 9750" (typ.)

Variable width Drainage Easement as shown on plat filed February 8, 1974 in Volume D6, Folio 22.

40' Private Access, Drainage, Water & Sewer Easement as shown on plat filed June 16, 1982 in Volume C19, Folio 171

10' Private Sanitary Sewer Easement granted by plat filed October 19, 1984 in Volume C25, Folio 79

PARCEL 1
HAHN PARCEL
Filed June 16, 1982 in Volume C19, Folio 171

PARCEL 2
HAHN PARCEL
Filed May 23, 1985 in Volume C37, Folio 62

PARCEL 2-A
HAHN PARCEL
Filed April 13, 1984 in Volume C23, Folio 156

GRAPHIC SCALE
60 0 30 60 120
(IN FEET)
1 inch = 60 ft.

No property within the area of this plat shall at any time be subject to a deed restriction, covenant, of binding agreement prohibiting solar collectors from being installed on buildings or erected on lots or parcels within the area of proposed plat. The foregoing requirement shall be a condition to approval of this plat.

DOC# 2008088162
09/05/2008 04:16 PM Page 4 of 4
typ:PLAT R:$25.00 B: 2008C P: 0172 M. Toulous Olivere, Bernalillo Cour

080285.dwg

SURVTEK, INC.
Consulting Surveyors
9384 Valley View Drive, N.W. Albuquerque, New Mexico 87114
Phone: 505-897-3366
Fax: 505-897-3377

I:\Rusty\080285\dwg\080285.dwg 7/17/2008 10:34:44 AM HP1050C 2.w3

SCANNED BY PLANNING

④ ①③④⑤ ② SITE DATA TABLE

BUILDING	BUILDING AREA	PROPOSED USE	ZONING	PRKG. REQ.	PRKG. PROV.	SHARED PARKING PROV 7AM–6PM	SHARED PARKING PROV 6PM–12AM	HC PRKG. REQ.	HC PRKG. PROV.	HC VAN REQ.	HC VAN PROV.	BIKE SPACES REQ.	BIKE SPACES PROV.	MOTORCYCLE SPACES REQ.	MOTORCYCLE SPACES PROV.	MAX. BLDG. HEIGHT	STORY	PATIO AREA
A	93,686	OFFICE & TRAINING	M-1 (SC)	180	113	90% 162	5% 9	8	8	2	2	9	10	5	6	50'	2	1,200 SF
		ASSEMBLY	M-1 (SC)	138	87	0% 0	100% 138											
B	76,000	OFFICE (FUTURE)	M-1 (SC)	317	277	100% 317	50% 159	8	8	2	2	15	10	6	6	50'	2	800 SF
C	57,072	OFFICE (FUTURE)	M-1 (SC)	221	180	100% 221	50% 111	8	8	2	2	11	10	5	6	65'	3	400 SF
D	19,435	RESTAURANT(S) (FUTURE)	M-1 (SC)	235	224	70% 165	100% 235	8	8	2	2	8	10	5	5	36'	1	400 SF
TOTAL	245,193			1091	881	865	651	32	32	8	8	43	45	21	23			2,800 SF

① RESTAURANT PARKING REQUIREMENT IS CALCULATED BY SEATING CAPACITY AT 1 PARKING SPACE PER 3 SEATS (705 SEATS)

② INCLUDES VAN DISABLED PARKING

③ TOTAL PARKING IN PHASE I – 282 PLUS 36 SPACES IN GATED AREA

④ INCLUDES DISABLED PARKING

⑤ A SHARED PARKING AGREEMENT SHALL BE APPROVED BY CODE ENFORCEMENT PRIOR TO DRB APPROVAL OF ANY FUTURE PHASES OF DEVELOPMENT

NOTE: OVERALL PARKING CALCS INCLUDE SPACES IN GATED AREA WHICH IS TO BE OPEN IN MORNING AND CLOSED AT NIGHT.

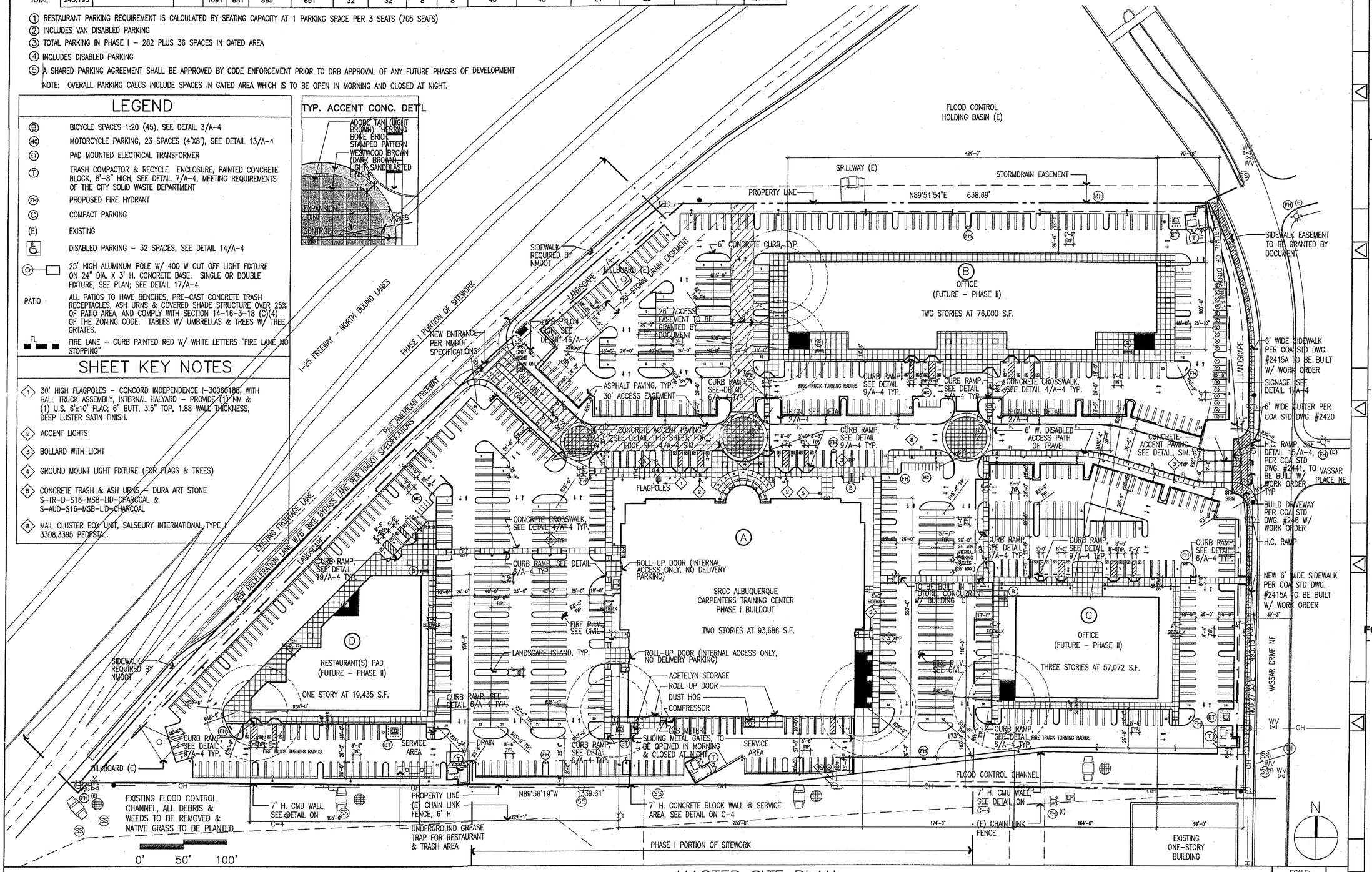
LEGEND

- Ⓑ BICYCLE SPACES 1:20 (45), SEE DETAIL 3/A-4
- Ⓜ MOTORCYCLE PARKING, 23 SPACES (4'X8'), SEE DETAIL 13/A-4
- ET PAD MOUNTED ELECTRICAL TRANSFORMER
- Ⓣ TRASH COMPACTOR & RECYCLE ENCLOSURE, PAINTED CONCRETE BLOCK, 8'–8" HIGH, SEE DETAIL 7/A-4, MEETING REQUIREMENTS OF THE CITY SOLID WASTE DEPARTMENT
- FH PROPOSED FIRE HYDRANT
- Ⓒ COMPACT PARKING
- (E) EXISTING
- DISABLED PARKING – 32 SPACES, SEE DETAIL 14/A-4
- 25' HIGH ALUMINUM POLE W/ 400 W CUT OFF LIGHT FIXTURE ON 24" DIA. X 3' H. CONCRETE BASE. SINGLE OR DOUBLE FIXTURE, SEE PLAN; SEE DETAIL 17/A-4
- PATIO ALL PATIOS TO HAVE BENCHES, PRE-CAST CONCRETE TRASH RECEPTACLES, ASH URNS & COVERED SHADE STRUCTURE OVER 25% OF PATIO AREA, AND COMPLY WITH SECTION 14-16-3-18 (C)(4) OF THE ZONING CODE. TABLES W/ UMBRELLAS & TREES W/ TREE GRITATES.
- FIRE LANE – CURB PAINTED RED W/ WHITE LETTERS "FIRE LANE NO STOPPING"

SHEET KEY NOTES

1. 30' HIGH FLAGPOLES – CONCORD INDEPENDENCE I–30060188, WITH BALL TRUCK ASSEMBLY, INTERNAL HALYARD – PROVIDE (1) NM & (1) U.S. 6'x10' FLAG; 6" BUTT, 3.5" TOP, 1.88 WALL THICKNESS, DEEP LUSTER SATIN FINISH.
2. ACCENT LIGHTS
3. BOLLARD WITH LIGHT
4. GROUND MOUNT LIGHT FIXTURE (FOR FLAGS & TREES)
5. CONCRETE TRASH & ASH URNS – DURA ART STONE S–TR–D–S16–MSB–LID–CHARCOAL & S–AUD–S16–MSB–LID–CHARCOAL
8. MAIL CLUSTER BOX UNIT, SALSBURY INTERNATIONAL TYPE 3308,3395 PEDESTAL.

TYP. ACCENT CONC. DET'L



MASTER SITE PLAN

SCALE: 1" = 50'–0" | 1

GIN WONG ASSOCIATES
PLANNING AND ARCHITECTURE
4465 WILSHIRE BOULEVARD, SUITE 100 LOS ANGELES, CA 90010 (323) 938-4422

SITE PLAN FOR BUILDING PERMIT

SRCC CARPENTERS TRAINING CENTER
3900 PAN AMERICAN FREEWAY NE
ALBUQUERQUE, NEW MEXICO 87107

FOR REFERENCE ONLY

ARCHITECT'S NEW MEXICO LICENSE # 4424

DRAWN BY

PHASE
EPC APPROVAL

SCALE

DATE
MARCH 24, 2008

JOB NUMBER
20705.00

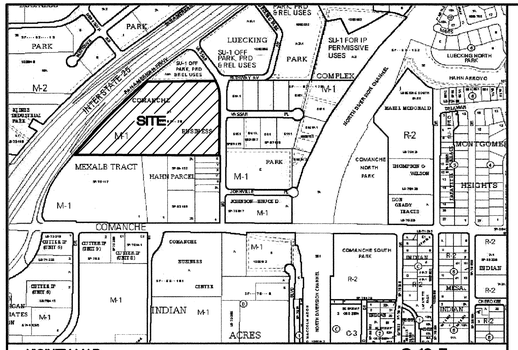
03

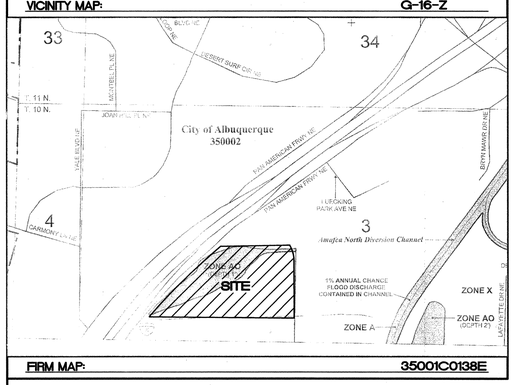
PLOT DATE – 7/25/2008 9:44 AM

Z:\2006\26026\Consultants\GWA-Architects\7-25-08\080724_Site-Plan - Albuquerque\Copy of Site-Plan.dwg
Z:\2006\26026\Consultants\GWA-Architects\7-25-08\080724_Site-Plan - Albuquerque\Copy of Site-Plan.dwg, 24X36, 7/25/2008 9:43:52 AM

SCANNED BY
PLANNING

RECORD DRAWINGS

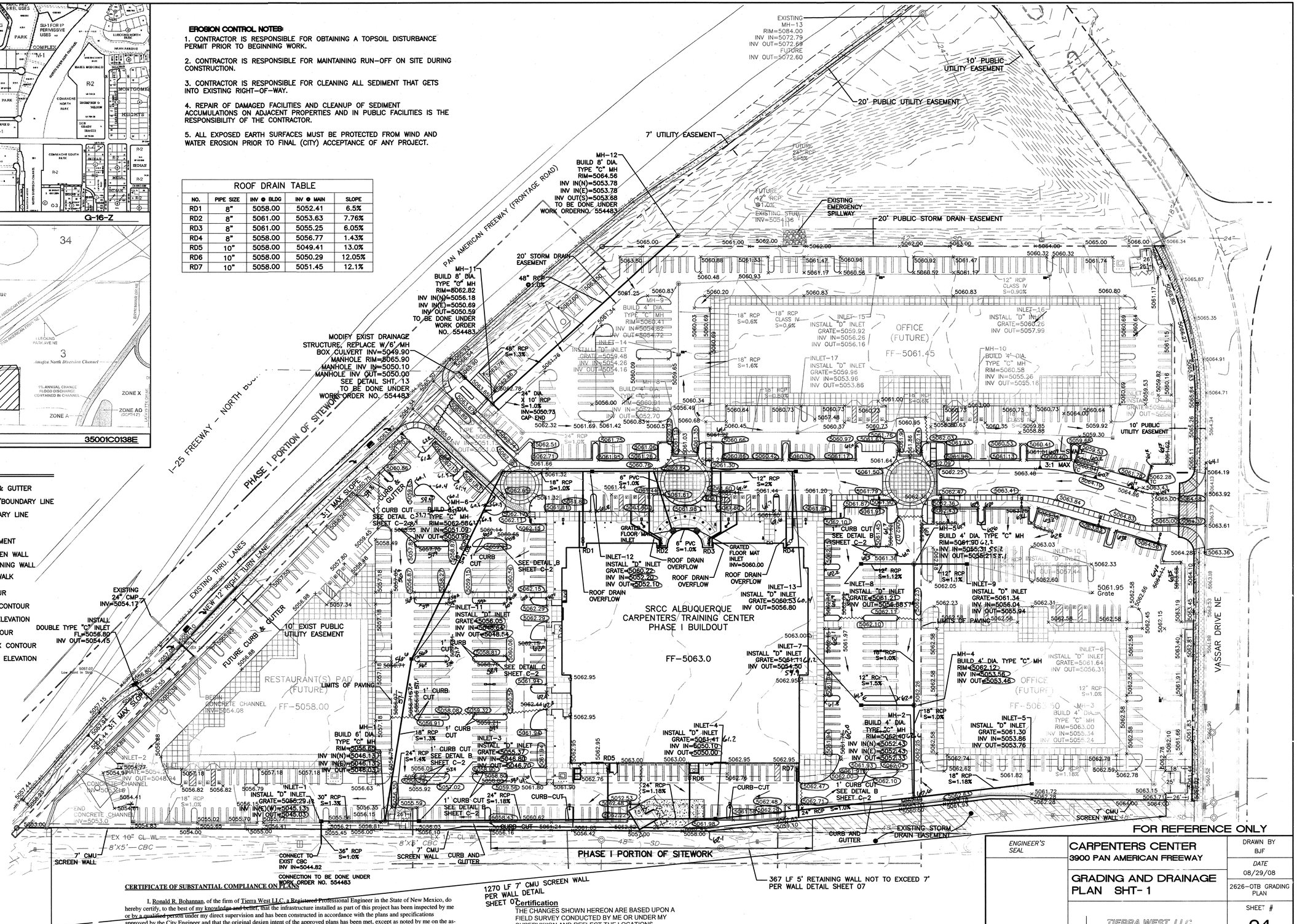




EROSION CONTROL NOTES:

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 (CITY) ACCEPTANCE OF ANY PROJECT.

ROOF DRAIN TABLE				
NO.	PIPE SIZE	INV @ BLDG	INV @ MAIN	SLOPE
RD1	8"	5058.00	5052.41	6.5%
RD2	8"	5061.00	5053.63	7.76%
RD3	8"	5061.00	5055.25	6.05%
RD4	8"	5058.00	5056.77	1.43%
RD5	10"	5058.00	5049.41	13.0%
RD6	10"	5058.00	5050.29	12.05%
RD7	10"	5058.00	5051.45	12.1%



LEGEND

- EXISTING CURB & GUTTER
- PROPOSED ROW/BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT
- PROPOSED EASEMENT
- PROPOSED SCREEN WALL
- PROPOSED RETAINING WALL
- PROPOSED SIDEWALK
- 5011 EXISTING CONTOUR
- 5010 EXISTING INDEX CONTOUR
- × 5048.25 EXISTING SPOT ELEVATION
- 5011 PROPOSED CONTOUR
- **5010** PROPOSED INDEX CONTOUR
- × 5048.25 PROPOSED SPOT ELEVATION
- FLOW ARROW
- PHASE LINE

GRAPHIC SCALE

50 25 0 25 50

SCALE: 1"=50'

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a ~~Registered~~ Professional Engineer in the State of New Mexico, do hereby certify, to the best of my ~~knowledge and belief~~, that the infrastructure installed as part of this project has been inspected by me or by a ~~qualified~~ person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys, NMPS number 18374.

Engineer's Seal & Signature

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROUGH GRADING APPROVAL DATE

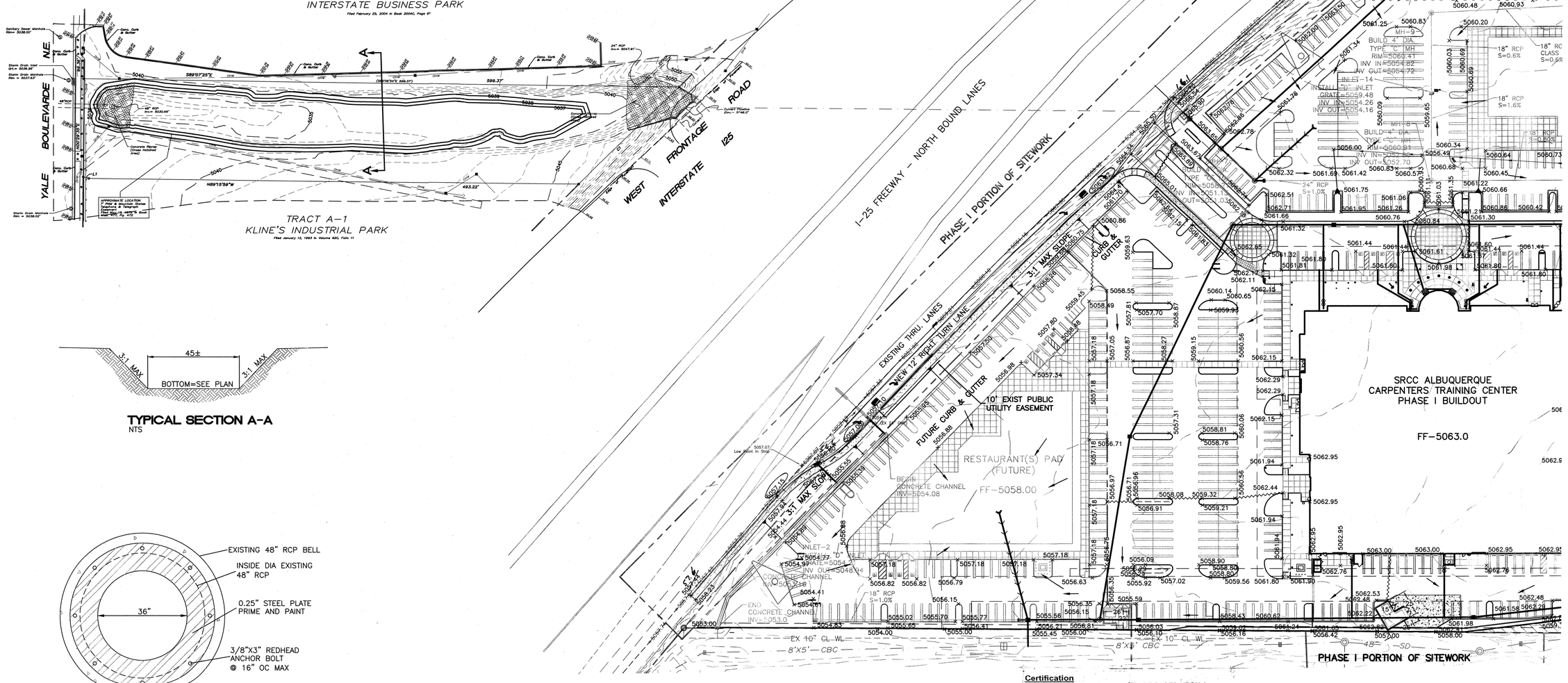
FOR REFERENCE ONLY

ENGINEER'S SEAL	CARPENTERS CENTER 3900 PAN AMERICAN FREEWAY	DRAWN BY BJF
		DATE 08/29/08
	GRADING AND DRAINAGE PLAN SHT-1	2626-OTB GRADING PLAN
		SHEET # 04
RONALD R. BOHANNAN P.E. #7868	TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505)858-3100	JOB # 26026

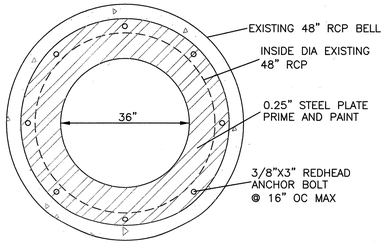
I:\2026\2626-Proj\...\OTB\2626-OTB Grading Plan.dwg, 9/4/08 7:42:42 PM

RECORD DRAWINGS

SCANNED BY PLANNING



TYPICAL SECTION A-A
NTS



ORIFICE DETAIL
NTS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys,. NMPS number 18374 .

Engineer's Seal & Signature

RONALD RAY BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER

GRAPHIC SCALE
50 25 0 25 50
SCALE: 1"=50'

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

FOR REFERENCE ONLY

ENGINEER'S SEAL	CARPENTERS CENTER 3900 PAN AMERICAN FREEWAY	DRAWN BY BJF
	GRADING AND DRAINAGE PLAN SHT-2	DATE 08/29/08
		2626-OTB GRADING PLAN
	TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505)858-3100	SHEET # 05
RONALD R. BOHANNAN P.E. #7868		JOB # 26026

I:\2626\2626-Project a g\OTB\26... Grading Plan a... 11:... PM

SCANNED BY PLANNING

LINE-CURVE TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
* L1	493.143	N0° 27' 33.00"E	
* C3	197.327	25.2930	447.000
C1	47.355	90.4416	30.000
C2	46.882	89.5376	30.000

* VASSAR DRIVE NE. STATIONING ALIGNMENT – LINE & CURVE DATA

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Engineer's Seal & Signature

RONALD R. BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER August, 2001

QUARTER POINTS

C1	FL	ELEV.
	1	5064.12
	2	5063.83
	3	5063.51

QUARTER POINTS

C2	FL	ELEV.
	4	5064.31
	5	5064.43
	6	5064.55

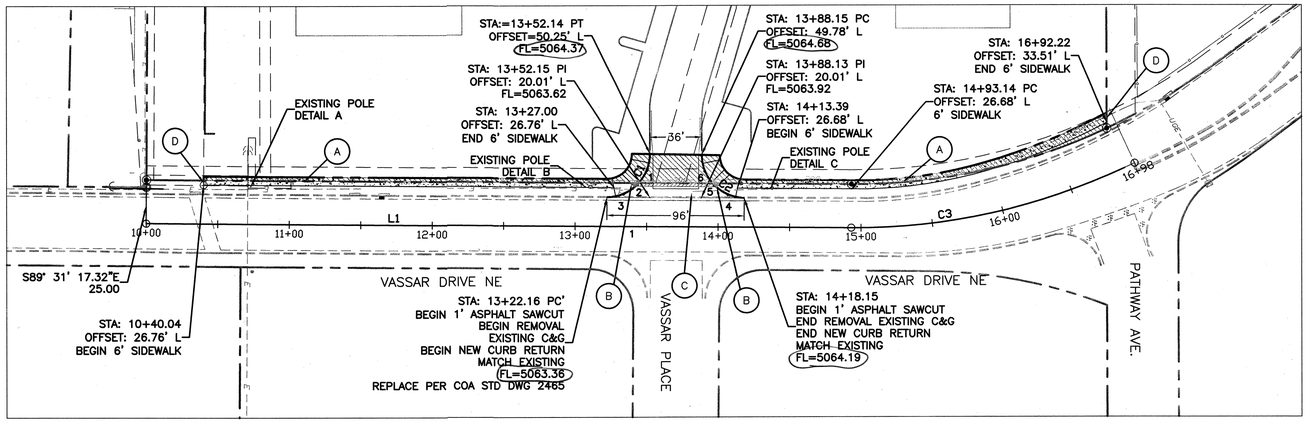
KEYED NOTE:

(A) 6' CONC. SIDEWALK PER COA. DWG # 2430

(B) NEW HC RAMP PER COA STD DWG# 2441. SEE DETAIL SHEET 17

(C) 6' VALLEY GUTTER PER COA STD DWG 2420

(D) CONTRACTOR TO PROVIDE 6:1 SLOPE BACK TO EXISTING GRADE.

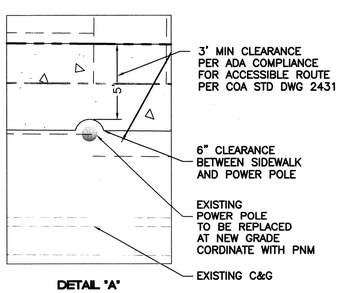


LEGEND

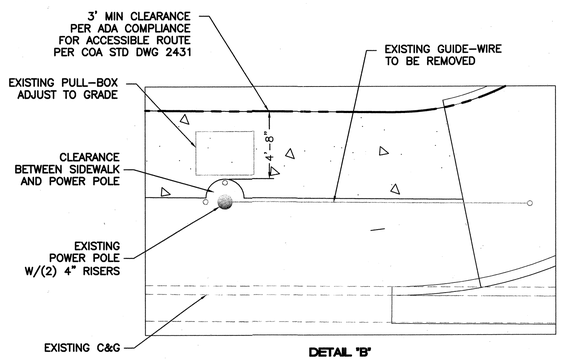
- NEW BOUNDARY LINE
- EASEMENT
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE
- 3' MIN @ 2% MAX CROSS SLOPE
- ROW DEDICATION

Certification

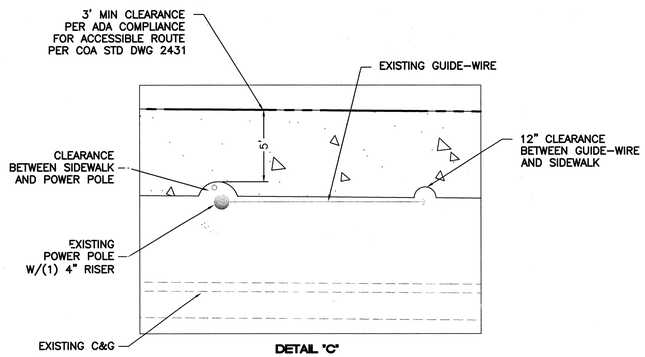
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.



DETAIL "A"



DETAIL "B"



DETAIL "C"

SIDEWALK AND POWER POLE DETAIL

50 25 0 25 50

SCALE: HORIZ. 1"=50'

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 6-3-10
STAKED BY Cartesian Surveys Inc. DATE 5/4
INSPECTOR'S ACCEPTANCE By TWLLC / COA DATE 5/10
FIELD VERIFICATION By Cartesian Surveys Inc. DATE 5/12
DRAWINGS CORRECTED By TWLLC DATE 6/16
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.999967080
Do=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
RAY BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER
6/16/10

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: SA	DATE: 05/06/08
		DRAWN BY: BJF	DATE: MM/DD/YYY
		DRAWING NAME: 2626-SH07-PV-VASSAR AVE	JOB NO.: 27101
		CHECKED BY: SA	DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

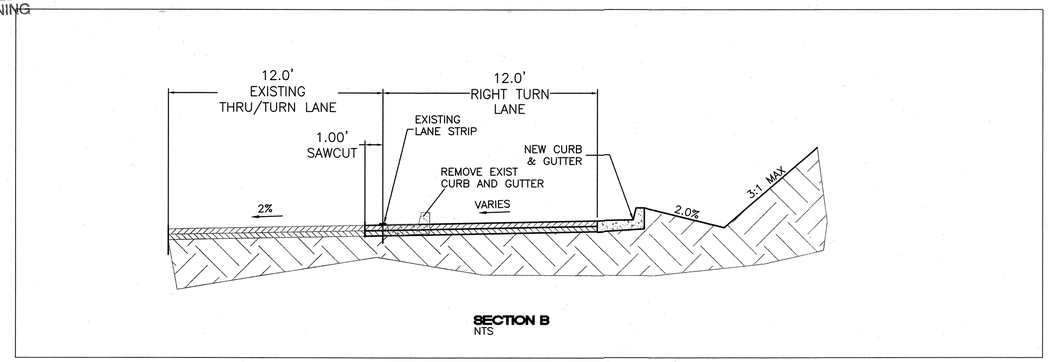
TITLE: **CARPENTERS CENTER**
PAVING IMPROVEMENTS
VASSAR AVE.: STA: 10+00 TO 16+90.47

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 06 OF 28

Z:\2026\2626\2626-Project Mgt\Construction - 2nd Albuq 2626-SHT-Plan - 55th - Ellison - Vassar - 16 Acre - 11 Pm

SCANNED BY PLANNING



SECTION B
NTS

QUARTER POINTS

C9

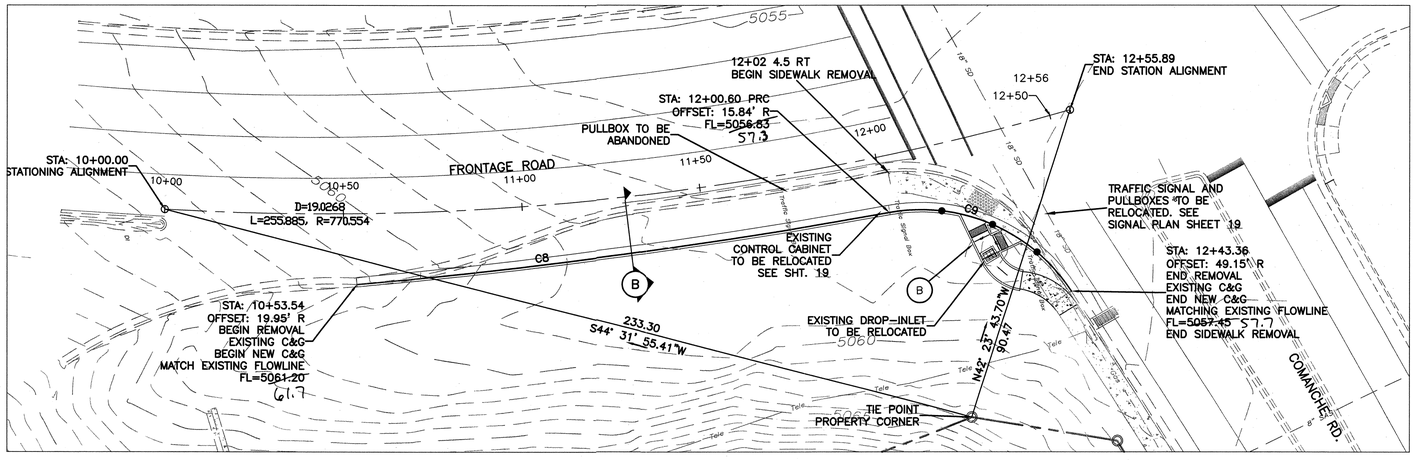
FL	ELEV.
1	5056.99
2	~~5057.14~~ S7.4
3	~~5057.30~~

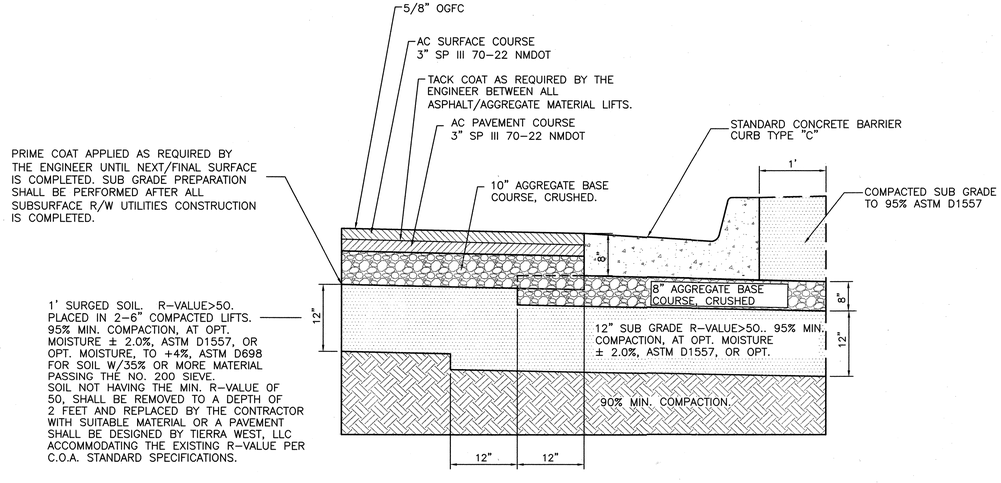
Curve Table			
Curve #	Length	Radius	Delta
C8	150.4	1708.8	5°02'29"
C9	59.0	50.0	67°35'17"

KEYED NOTE:

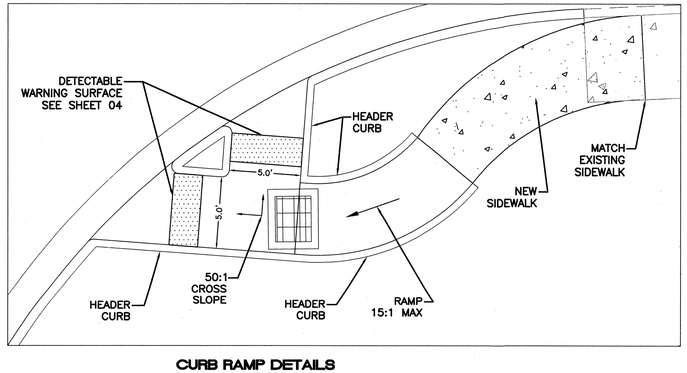
(A) 8" STANDARD CURB & GUTTER PER C.O.A. STD. DWG. NO. 2415A

(B) HC RAMP (SEE DETAIL THIS SHEET)





PAVING SECTION (FRONTAGE ROAD)
NTS



CURB RAMP DETAILS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys. , NMPS number 18374.

Engineer's Seal & Signature
RONALD R. BOHANNAN
NEW MEXICO
7868
REGISTERED PROFESSIONAL ENGINEER

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LEGEND

- BOUNDARY LINE
- EASEMENT
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE

20 10 0 10 20
SCALE: HORIZ. 1"=20'

NOTE:

PLAN FOR REFERENCE ONLY

FRONTAGE ROAD PLANS TO BE REVIEWED AND APPROVED THRU NMDOT DRIVEWAY PERMIT PROCESS

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 1/2/09
WORK STAKED BY Cartesian Surveys Inc. DATE 05/06/08
INSPECTOR'S ACCEPTANCE BY TWLLC / COA DATE 05/10
AS-BUILT VERIFICATION BY Cartesian Surveys Inc. DATE 1/2
DRAWINGS COMPILED BY TWLLC DATE 05/12
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. Da=00°12'39" Elev=5079.46 (NGVD29)

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
RONALD R. BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER
1/2/09

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN		

DESIGNED BY: SA DATE: 05/06/08
DRAWN BY: BJF DATE: MM/DD/YYY
DRAWING NAME: 2626-SHT2-PV-PAVING IMPROVEMENT_PAN AM FRONTAGE RD
JOB NO.: 27101
CHECKED BY: SA DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

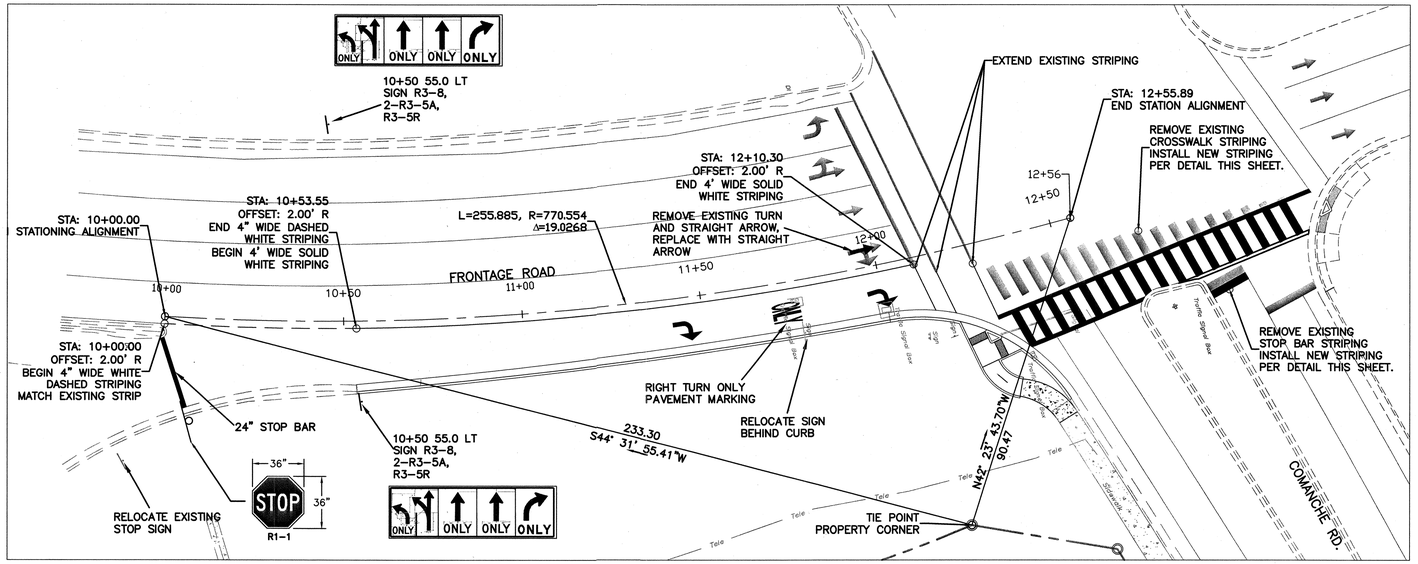
TITLE: **CARPENTERS CENTER**
PAVING IMPROVEMENTS
PAN AMERICAN FRONTAGE RD. AT COMANCHE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE			

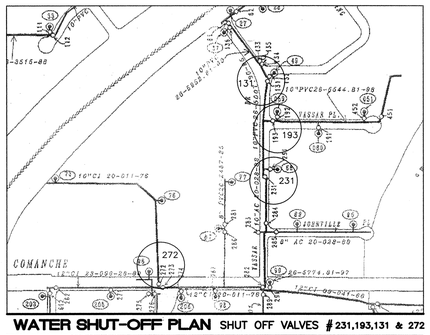
CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 07 OF 28

Z:\2626\2626\Project\dwg\Construction\NMDOT\2626-SHT2-PV-Paving improvement_Pan Am Frontage Rd.dwg, City-7T, 10/22/2008 1:46:46 PM

SCANNED BY
PLANNING


ONLY ONLY ONLY ONLY
10+50 55.0 LT
SIGN R3-8,
2-R3-5A,
R3-5R
EXTEND EXISTING STRIPING
STA: 12+55.89
END STATION ALIGNMENT
REMOVE EXISTING
CROSSWALK STRIPING
INSTALL NEW STRIPING
PER DETAIL THIS SHEET.
STA: 12+10.30
OFFSET: 2.00' R
END 4' WIDE SOLID
WHITE STRIPING
STA: 10+53.55
OFFSET: 2.00' R
END 4" WIDE DASHED
WHITE STRIPING
BEGIN 4' WIDE SOLID
WHITE STRIPING
L=255.885, R=770.554
Δ=19.0268
REMOVE EXISTING TURN
AND STRAIGHT ARROW,
REPLACE WITH STRAIGHT
ARROW
STA: 10+00.00
STATIONING ALIGNMENT
FRONTAGE ROAD
12+56
12+50
12+00
11+50
11+00
10+50
10+00
REMOVE EXISTING
STOP BAR STRIPING
INSTALL NEW STRIPING
PER DETAIL THIS SHEET.
STA: 10+00.00
OFFSET: 2.00' R
BEGIN 4" WIDE WHITE
DASHED STRIPING
MATCH EXISTING STRIP
RIGHT TURN ONLY
PAVEMENT MARKING
RELOCATE SIGN
BEHIND CURB
24" STOP BAR
10+50 55.0 LT
SIGN R3-8,
2-R3-5A,
R3-5R
233.30
S44° 31' 55.41"W
N42° 23' 43.70"W
90.47
36"
STOP
36"
R1-1
RELOCATE EXISTING
STOP SIGN
TIE POINT
PROPERTY CORNER
COMANCHE RD.
Telephone Pedestal
Telephone Signal Box
Telephone Manhole
Telephone Signal Box
Tele
Telephone Pedestal
Telephone Manhole
Telephone Pedestal
Telephone Manhole
Telephone Pedestal
Telephone Manhole

SCANNED BY
PLANNING



WATER SHUT-OFF PLAN SHUT OFF VALVES #231,193,131 & 272

GENERAL UTILITY NOTES:

1. ALL WATER AND SEWER UTILITY WORK TO BE DONE IN ACCORDANCE WITH COA STANDARDS AND SPECIFICATIONS LATEST EDITION.
2. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
3. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATIONS.
4. CLEAN OUTS ARE TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
5. ALL PLUMBING PIPE MATERIAL TO BE USED PER UPC.
6. FIRE LINE AND DOMESTIC WATERLINE MUST HAVE BACKFLOW PREVENTORS PER UPC. IF BACKFLOW PREVENTOR IS INSTALLED EXTERIOR OF BUILDING A HOT BOX SHALL BE INSTALLED AND USED.
7. ALL EX. SD INLETS AND MH SHALL HAVE CONCRETE COLLARS POURED AND BE ADJUSTED TO FINISHED GRADE.
8. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
9. ALL UTILITY DISTANCES SHOWN ARE FOR REFERENCE ONLY.
10. SITE LIGHTING LOCATIONS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL PLAN FOR EXACT LOCATIONS
11. REFER TO ARCHITECTURAL PLAN FOR LIGHTING POWER ROUTING AND CONDUIT SIZES
12. CONTRACTOR TO INSTALL CONDUIT FOR DRY UTILITIES ON SITE AS REQUIRED

NOTICE TO CONTRACTORS:

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERE ON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

WATER SHUTOFF NOTES:

1. ONLY ABCWUA WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES
2. NOTIFY ABCWUA, WATER SYSTEMS DIVISION (PHONE 857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF EXECUTION OF THE WATER SHUT-OFF PLAN.
3. APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
4. ALL WATERLINES TO BE PVC, UNLESS OTHERWISE NOTED.
5. SHUT-OFF VALVES INDICATED IN THE ABOVE PLAN, TO BE DONE ONLY IN THE EVENT OF EMERGENCY. CONNECTION TO EXISTING WATER LINE TO BE PRESSURIZED.

CAUTION:

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West, LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys., NMPS number 18374 .

Engineer's Seal & Signature

7868

PHASE I PORTION OF SITEWORK

EXISTING THRU. LANES

NEW 12' RIGHT TURN LANE

PATHWAY AVE.

VASSAR PLACE

VASSAR DRIVE NE

SANITARY SEWER SERVICE
6" DIA. X 15' STUB
6" SAS CAP
INV=5052.23
4' DIA. MH
RIM=5061.83
INV IN=5051.93
INV OUT=5051.83

PRIVATE FIRE LINE
8" STUB & CAP

INSTALL
8" VALVE W/BOX
(PRIVATE)
PER COA STD DWG
2326

INSTALL
45° BEND (2 EA.)
PER COA STD. DWG
2301

INSTALL
10"X10"X8" TEE
8" VALVE W/BOX
(PUBLIC)
PER COA STD. DWG
2301, 2326

INSTALL
10" VALVE W/BOX
PER COA STD. DWG 2326

PHASE 1 LINE

INSTALL
1" IRRIGATION SERVICE
1" METER W/BOX
PER COA STD DWG 2363

INSTALL
2" SERVICE
2" METER W/BOX
PER COA STD DWG 2363

20' WATERLINE EASEMENT TO BE GRANTED TO ABCWUA

INSTALL
11° BEND
PER COA STD. DWG
2301

EXISTING POWER POLE TO REMAIN

INSTALL
10"X10"X8" TEE
8" VALVE W/BOX (PUBLIC)
50 FT. 8" WL
8" WL CAP
PER COA STD. DWG
2301, 2326

CONTRACTOR TO PROVIDE
2 EA. 4" CONDUITS (CAP END)
FOR FUTURE USE

INSTALL
10"X10"X10" TEE
(2)10" VALVES W/BOX
10° 11' BEND
PER COA STD. DWG
2301, 2326, 2333

EXISTING POWER POLE TO REMAIN

CONTRACTOR TO PROVIDE 2 EA. 4" CONDUITS FOR FUTURE USE

EXISTING POWER POLE TO REMAIN

20' WATERLINE EASEMENT TO BE GRANTED TO ABCWUA

INSTALL
10"X10"X6" TEE
6" VALVE
FIRE HYDRANT
FLANGE EL=5062.99
PER COA STD. DWG
2301, 2326 & 2340

INSTALL
BACKFLOW PREVENTER
W/HOTBOX
(CONDUIT FOR POWER
TO BE INSTALLED
TO HOTBOX)

INSTALL
3" SERVICE
2" METER W/BOX
PER COA STD DWG 2363

INSTALL
10"X10"X6" TEE
6" PUBLIC VALVE
6" PRIVATE PIV VALVE
W/SENSOR

INSTALL
10"X10"X8" TEE
PER COA STD.
DWG 2301,

INSTALL
10"X10"X6" TEE
6" VALVE (PUBLIC)
FIRE HYDRANT (PUBLIC)
PER COA STD. DWG
2301, 2326 & 2340

SRCC ALBUQUERQUE
CARPENTERS TRAINING CENTER
PHASE I BUILDOUT

FF=5063.0

INSTALL
6" PIV VALVE
W/ SENSOR

3" WATER SERVICE ENTRY

6" FIRELINE

INSTALL
BACKFLOW PREVENTER
W/HOTBOX
(CONDUIT FOR POWER
TO BE INSTALLED
TO HOTBOX)

INSTALL
BACKFLOW PREVENTER
W/HOTBOX
(CONDUIT FOR POWER
TO BE INSTALLED
TO HOTBOX)

INSTALL
10"X10"X6" TEE
6" VALVE
FIRE HYDRANT
FLANGE EL=5062.91
PER COA STD. DWG
2301, 2326 & 2340

INSTALL
1" IRRIGATION
SERVICE
1" METER W/BOX
PER COA STD
DWG 2363
PROVIDE BACKFLOW
PREVENTOR AND HOTBOX
(CONDUIT FOR POWER TO BE
PROVIDED TO BACKFLOW PREVENTOR)

INSTALL
2" SERVICE
2" METER W/BOX
PER COA STD DWG 2363

INSTALL
1" IRRIGATION SERVICE
1" METER W/BOX
PER COA STD DWG 2363

8" VALVE
W/BOX (PRIVATE)
PER COA
STD DWG. 2326

PHASE 1 LINE

20' SAS EASEMENT TO BE GRANTED TO ABCWUA

INSTALL
8"X8"X6" CROSS
6" PUBLIC VALVE
PER COA STD. DWG
2301, 2326

INSTALL
11° BEND

INSTALL
DOUBLE
CLEANOUT
INV=5045.65

6" SAS SERVICE

GAS METER

QWEST PEDESTAL

QWEST PULLBOX

INSTALL
8" VALVE W/BOX (PUBLIC)
PER COA STD DWG. 2326

4' DIA. MH
RIM=5062.36
INV IN(N)=5049.11
INV IN(E)=5049.11
INV OUT=5049.01

INSTALL
8" VALVE W/BOX (PRIVATE)
PER COA STD. DWG. 2326

PRIVATE FIRE LINE
8" STUB & CAP

SANITARY SEWER SERVICE
6" DIA. X 40' STUB (TEE/WYE CONNECTION)
6" SAS CAP
INV=5049.93

INSTALL
6" VALVE W/BOX (PUBLIC)
FIRE HYDRANT (PUBLIC)
PER COA. STD. DWG.
2326, 2340

4' DIA. MH
RIM=5062.58
INV IN=5048.27
INV OUT=5048.17

4' DIA. MH
RIM=5061.61
INV IN=5045.70
INV OUT=5045.60

4' DIA. MH
RIM=5055.58
INV IN=5042.92
INV OUT=5042.82

INSTALL
45° BEND (2 EA.)
PER COA STD. DWG
2301

INSTALL
10"X10"X10" TEE
(2)10" VALVE (PUBLIC)
PER COA STD. DWG
2301, 2326

QWEST PEDESTAL

7' PUBLIC UTILITY EASEMENT

7' PUBLIC UTILITY EASEMENT

8" SAS @ 0.76%
JACK-AND-BORE
UNDER 8X5 CBC
SEE SHEET 14
FOR DETAIL

4' DIA. MH
RIM=5055.00
INV IN(N)=5039.83
INV IN(E)=5039.83
INV OUT=5039.73

5' PNM UTILITY EASEMENT

5' PNM UTILITY EASEMENT

EXIST SDMH
GRATE=5057.57
INV (E-W-S)=5044.67

EXIST SAS MH
RIM=5055.48
INV=5040.02

EXIST SAS MH
RIM=5054.82
INV (W)=5036.
INV (E)=5037.

25' WATER AND SAS EASEMENT TO BE GRANTED TO ABCWUA

EXISTING OVERHEAD POWER LINE

8" SAS @ 0.8%

8" WL

10" WL

EX 10" CL WL

8'X5' CBC

12" VCP SAS

10" PVC WL

8" PVC SAS

LEGEND

EXISTING CURB & GUTTER	PROPOSED SIDEWALK	PROPOSED PARKING LOT LIGHT	EX. 18" RCP	EXISTING STORM SEWER LINE	
BOUNDARY LINE	EXISTING SD MANHOLE	PROPOSED CLEAN OUT	8" SAS	PROPOSED SANITARY SEWER LINE	
EXISTING BOUNDARY LINE	EXISTING INLET	PROPOSED DOUBLE CLEAN OUT		PROPOSED FIRE HYDRANT	
EASEMENT	EXISTING SAS MANHOLE	EXISTING OVERHEAD UTILITIES	8" WL	PROPOSED WATERLINE	
PROPOSED EASEMENT	EXISTING FIRE HYDRANT	EXISTING UNDERGROUND UTILITIES	JUT	PROPOSED JOINT UTILITY TRENCH	
PROPOSED SCREEN WALL	EXISTING WATER METER	EXISTING GAS		TRANSFORMER	
PROPOSED RETAINING WALL	EXISTING POWER POLE	EXISTING SANITARY SEWER LINE			
	EXISTING GAS VALVE	EXISTING WATER LINE			

GRAPHIC SCALE
50 25 0 25 50
SCALE: 1"=50'

N

AS BUILT INFORMATION
CONTRACTOR: Franklin's Earthmoving DATE: 09-2008
STAKED BY: Cartesian Surveys Inc. DATE: 9/10
INSPECTION'S & STAKING BY: TWLLC COA DATE: 5/10
FIELD VERIFICATION BY: Cartesian Surveys Inc. DATE: 5/10
AS-BUILTS CORRECTED BY: TWLLC DATE: 6/10
MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO.: Da=00°12'59" Elev=5079.46 (NGVD29)

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: SA DATE: 05/06/08
DRAWN BY: BJF DATE: 06/06/08
DRAWING NAME: 2626-MUB JOB NO.: 27101
CHECKED BY: SA DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
MASTER UTILITY PLAN

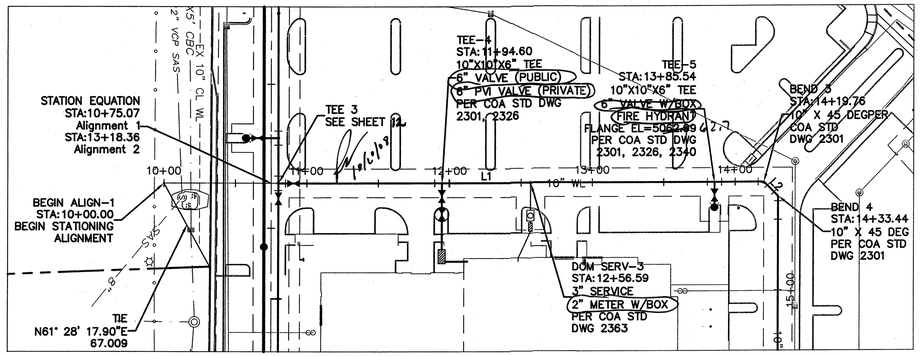
DESIGN REVIEW COMMITTEE: APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 09 OF 28

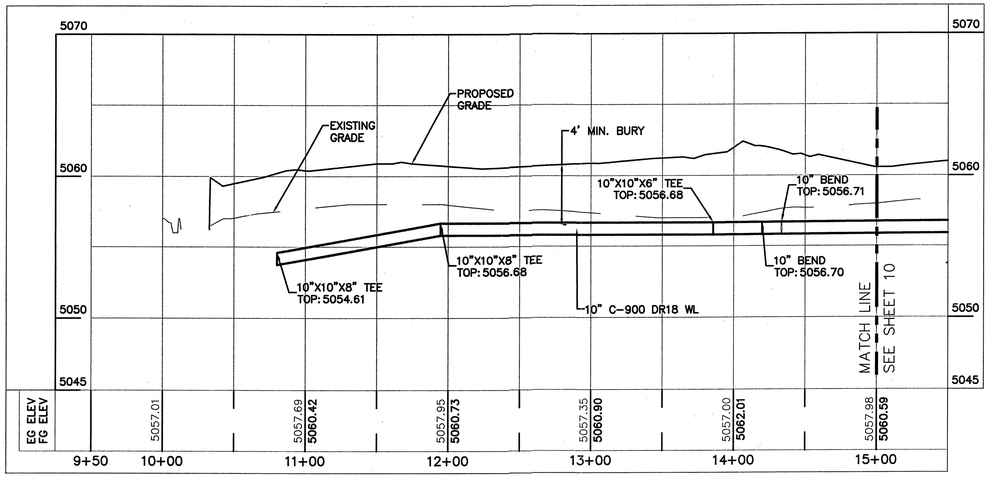
I:\2026\26\26A\2626-Project\dwg\DRB 2626-MUB.dwg, DRC, 9/5/2008 7:27:1

SCANNED BY PLANNING



STATIONING TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
L1	344.985	N0° 00' 23.69"W	
L2	14.142	N44° 59' 19.91"E	
L3	433.644	N89° 59' 19.91"E	
L4	138.015	S73° 47' 10.35"E	
L5	48.336	S89° 25' 29.59"E	

WL PIPE TABLE			
Pipe Name	Size	Length	Station
WL 6	10	113	10+80.07
WL 7	10	191	13+85.54
WL 8	10	35	14+19.76
WL 9	10	14	14+33.44



GENERAL NOTES:

1. BASIS OF STATIONING IS CENTERLINE OF WATERLINE.

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990 (OR DIAL 811 LOCALLY), FOR LOCATION OF EXISTING UTILITIES.

4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

5. BACK FILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.

6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

GENERAL NOTES:

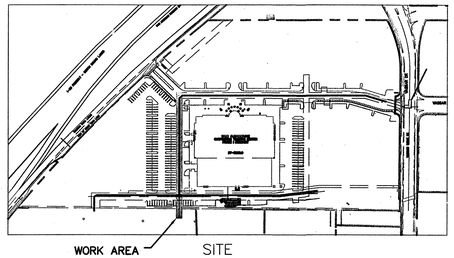
1. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATION.
3. ALL STUBS AND UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
4. CLEAN OUTS TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
5. SEE ARCHITECTURAL PLANS FOR LIGHTING CONDUITS AND TELEPHONE LINES.
6. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Engineer's Seal & Signature

August, 2008



50 25 0 25 50

SCALE: HORIZ. 1"=50'
VERT. 1"=5'

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CAUTION:
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving
WORK COMPLETED By Cartesian Surveys Inc. DATE 5/9/08
INSPECTOR'S ACCEPTANCE By TWLLC/COA DATE 05/10/08
FIELD VERIFICATION By Cartesian Surveys Inc. DATE 5/8/08
DRAWINGS COMPLETED By TWLLC DATE 05/10/08
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NW STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Dg=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
RONALD RAY BOHANNAN NEW MEXICO 7868 PROFESSIONAL ENGINEER

NO.	BY	REMARKS / REVISIONS	DATE
		DESIGN	
		DESIGNED BY: SA	DATE: 05/06/08
		DRAWN BY: BJF	DATE: MM/DD/YYY
		DRAWING NAME: 2626-SH08-UT-SITE WATER & SEWER	JOB NO.: 27101
		CHECKED BY: SA	DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
UTILITY IMPROVEMENTS
10" WATERLINE: STA: 9+50 TO 15+00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED DESIGN REVIEW COMMITTEE	APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE			

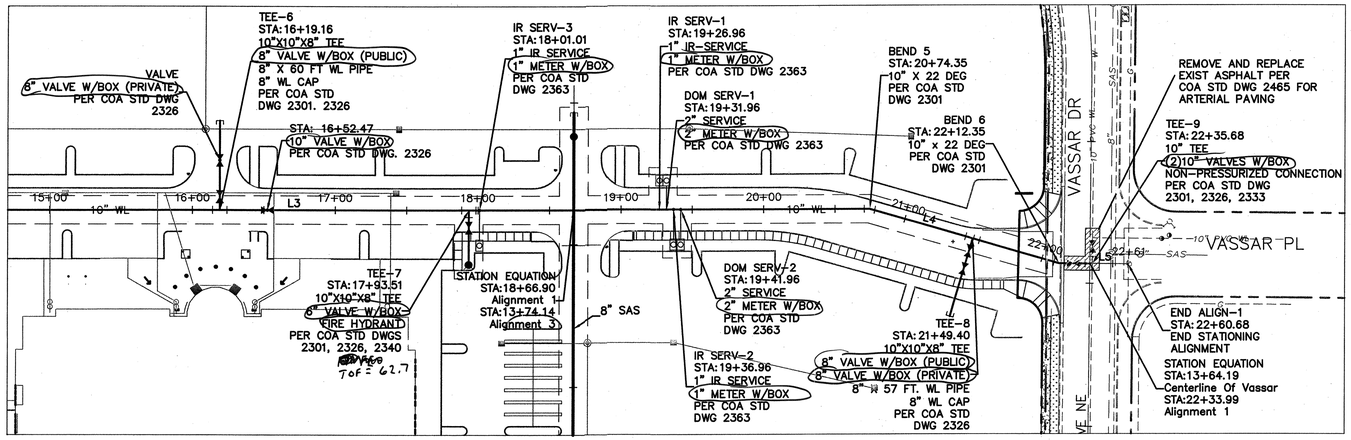
CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 10 OF 28

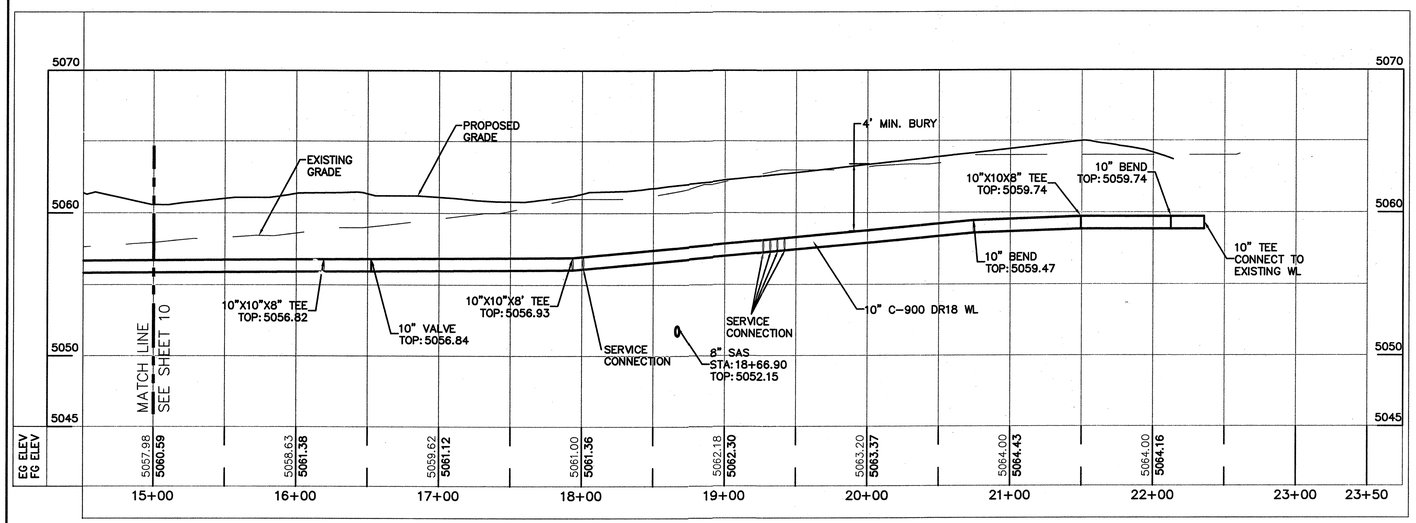
Z:\2006\26\26\2626-Project\Dwg\Construction\City Of Albuq\2626-SH08-UT-Site Water & Sewer.dwg, 10, 9/11/2008 12:38:00 PM

SCANNED BY
PLANNING

WL PIPE TABLE			
Pipe Name	Size	Length	Station
WL 10	10	186	16+19.16
WL 11	10	31	16+52.47
WL 12	10	139	17+93.51
WL 13	10	279	20+74.35
WL 14	10	73	21+49.40
WL 15	10	63	22+12.35
WL 16	10	23	22+12.35

STATIONING TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
L1	344.985	N0° 00' 23.69"W	
L2	14.142	N44° 59' 19.91"E	
L3	433.644	N89° 59' 19.91"E	
L4	138.015	S73° 47' 10.35"E	
L5	48.336	S89° 25' 29.59"E	





GENERAL NOTES:

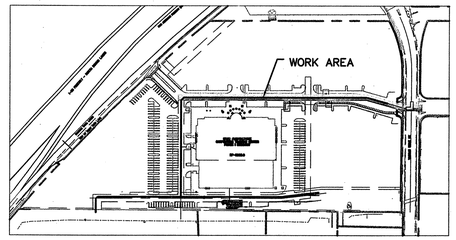
1. BASIS OF STATIONING IS CENTERLINE OF WATERLINE.
2. SEE DETAIL SHEET 17 FOR RESTRAINING TABLE

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990 (OR DIAL 811 LOCALLY), FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACK FILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

GENERAL NOTES:

1. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATION.
3. ALL STUBS AND UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
4. CLEAN OUTS TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
5. SEE ARCHITECTURAL PLANS FOR LIGHTING CONDUITS AND TELEPHONE LINES.
6. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.



SITE

50 25 0 25 50

SCALE: HORIZ. 1"=50'
VERT. 1"=5'

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys, , NMPS number 18374 .

Engineer's Seal & Signature

CAUTION:
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving
WORK INSPECTED BY: Cartesian Surveys Inc. DATE 9-8-08
INSPECTORS ACCEPTANCE BY: TWLLC / COA DATE 05/10
VERIFICATION BY: Cartesian Surveys Inc. DATE 5/9
DRAWINGS CORRECTED BY: TWLLC DATE 05/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
RONALD RAY BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
		DESIGNED BY: SA DATE: 05/06/08
		DRAWN BY: BJF DATE: MM/DD/YYY
		DRAWING NAME: 2626-SH08-UT-SITE WATER & SEWER JOB NO.: 27101
		CHECKED BY: SA DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

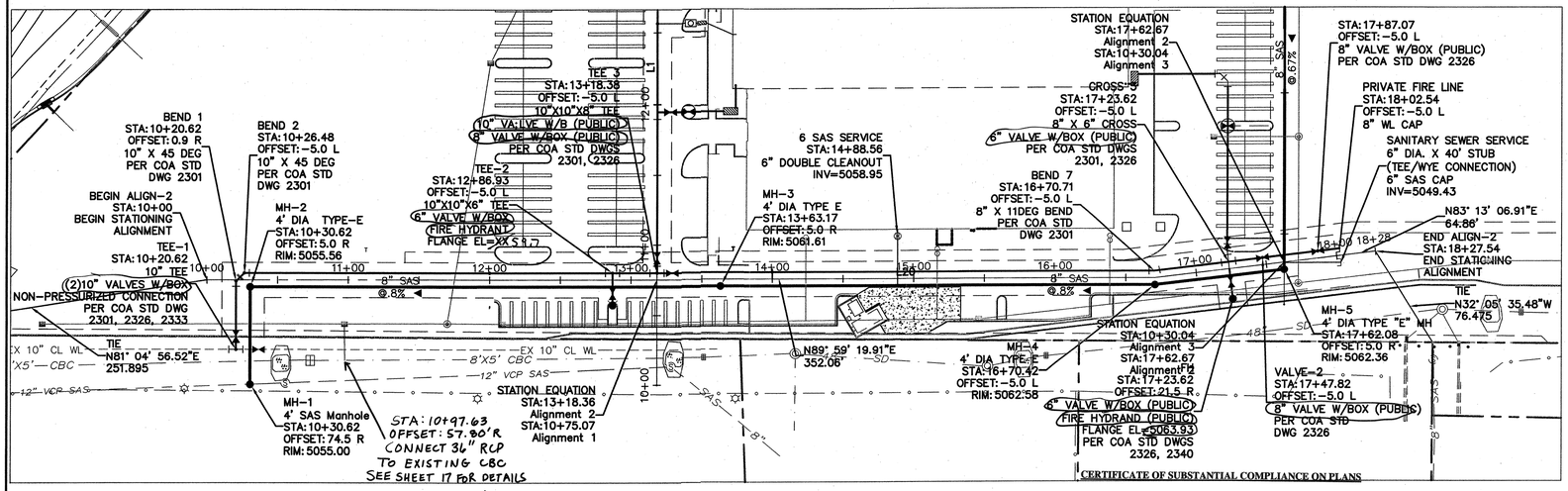
TITLE: **CARPENTERS CENTER**
UTILITY IMPROVEMENTS
10" WATERLINE: STA: 15+00 TO 23+00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 08 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
554483	G-16-Z	11	28

Z:\2006\2626\2626-Project\dwg\Construction\City Of Albuq\2626-SH08-UT-Site Water & Sewer.dwg, 11, 9/11/2008 12:38:05 PM

SCANNED BY PLANNING



WL PIPE TABLE			
Pipe Name	Size	Length	Station
WL 1	10	47	10+20.62
WL 2	10	4	10+26.48
WL 3	10	170	12+00.00
WL 4	10	83	12+86.93
WL 5	10	27	13+18.38
WL 6	10	113	10+80.07
WL 17	8	78	13+18.38
WL 18	8	268	14+00.00
WL 19	8	53	16+70.71
WL 20	8	22	17+23.62
WL 21	8	35	17+47.82
WL 22	8	13	17+87.07

SAS PIPE TABLE			
Pipe Name	Size	Length	Station
SAS 1	8	70	10+30.62
SAS 2	8	333	13+63.17
SAS 3	8	308	16+70.42
SAS 4	8	92	16+70.42

GENERAL NOTES:

1. BASIS OF STATIONING IS CENTERED BETWEEN WATER LINE AND SEWER LINE
2. SEE DETAIL SHEET 14 FOR RESTRAINING TABLE

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

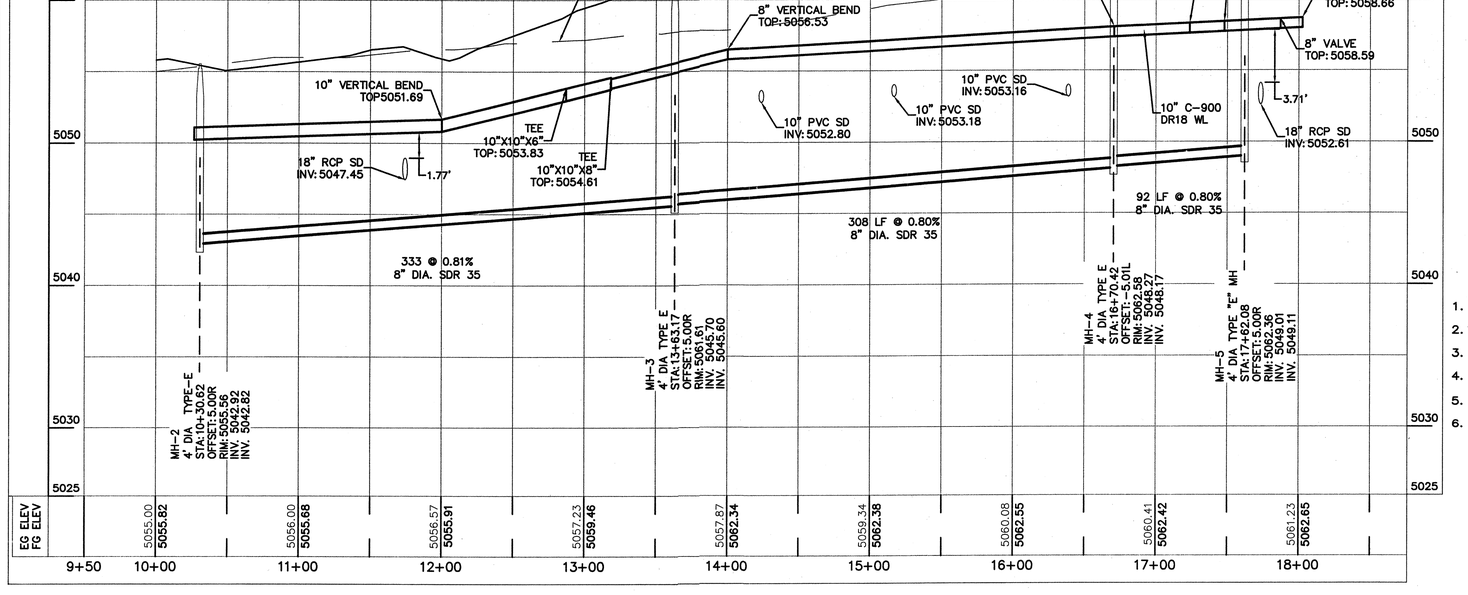
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

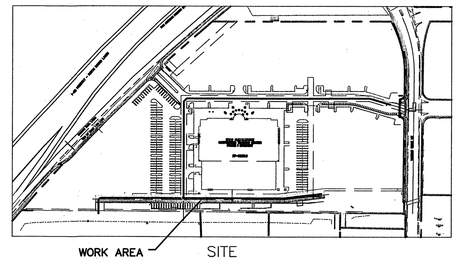
I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Engineer's Seal & Signature
RONALD R. BOHANNAN
NEW MEXICO
7868
REGISTERED PROFESSIONAL ENGINEER

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990 (OR DIAL 811 LOCALLY), FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACK FILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.





SCALE: HORIZ. 1"=50'
VERT. 1"=5'

GENERAL NOTES:

1. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATION.
3. ALL STUBS AND UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
4. CLEAN OUTS TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
5. SEE ARCHITECTURAL PLANS FOR LIGHTING CONDUITS AND TELEPHONE LINES.
6. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

CAUTION:

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving
WORK STAKED BY Cartesian Surveys Inc. DATE 1-25-20
ACCEPTANCE BY TWLLC/COA DATE 09/10
VERIFICATION BY Cartesian Surveys Inc. DATE 5/10
DRAWINGS CORRECTED BY TWLLC DATE 05/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
RONALD R. BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER

NO.	BY	DATE	REMARKS
			REVISIONS
			DESIGN
			DESIGNED BY: SA DATE: 05/06/08
			DRAWN BY: BJF DATE: MM/DD/YYY
			DRAWING NAME: 2626-SH08-UT-SITE WATER & SEWER JOB NO.: 27101
			CHECKED BY: SA DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

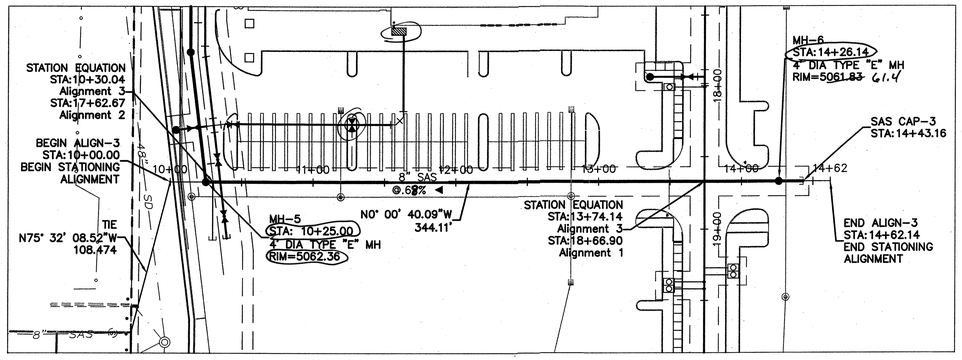
TITLE:
CARPENTERS CENTER
UTILITY IMPROVEMENTS
8" WATER AND SAS LINE STA: 9+50 TO 18+50

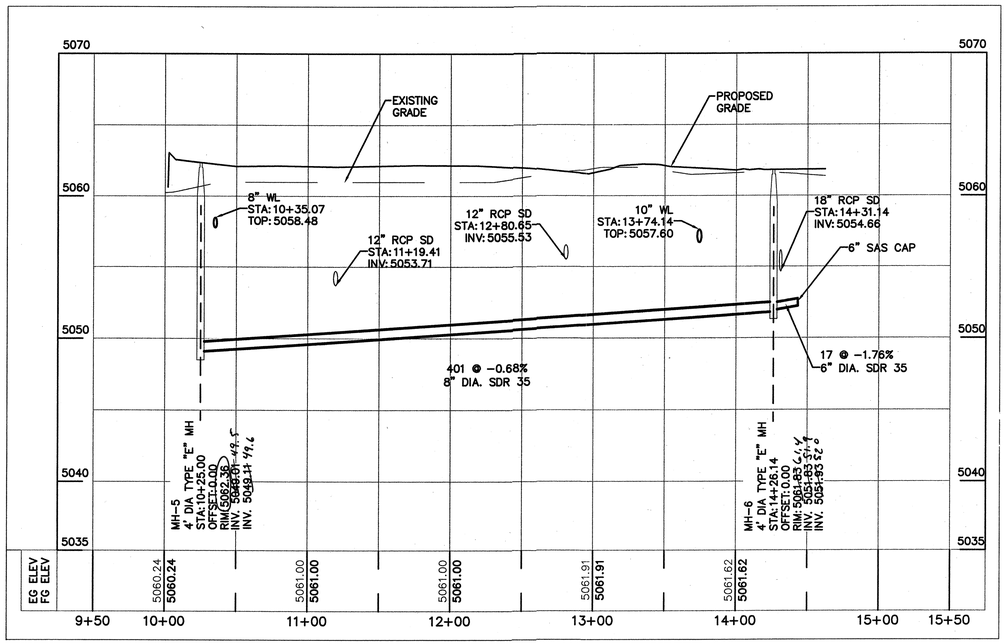
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 1 DESIGN REVIEW COMMITTEE	APPROVED MAY 05 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 12 OF 28

Z:\2006\26026\2626-Project\dwg\Construction\City 01 Albuq\2626-SH08-UT-Site Water & Sewer.dwg, 12, 6/11/2008 12:40:19 PM

SCANNED BY
PLANNING





GENERAL NOTES:

1. BASIS OF STATIONING IS CENTERLINE OF SAS LINE.

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990 (OR DIAL 811 LOCALLY), FOR LOCATION OF EXISTING UTILITIES.

4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

5. BACK FILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.

6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

GENERAL NOTES:

1. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATION.
3. ALL STUBS AND UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
4. CLEAN OUTS TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
5. SEE ARCHITECTURAL PLANS FOR LIGHTING CONDUITS AND TELEPHONE LINES.
6. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

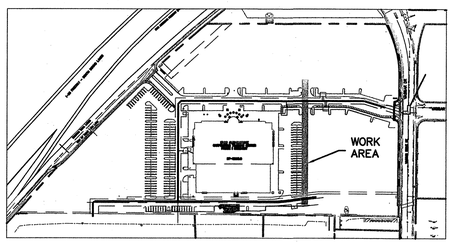
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys., NMPS number 18374 .

Engineer's Seal & Signature

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.



SITE

CAUTION:

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

N

50 25 0 25 50

SCALE: HORIZ. 1"=50'
VERT. 1"=5'

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving
WORK STAKED BY Cartesian Surveyors Inc. DATE 6-17
INSPECTOR'S ACCEPTANCE BY TWLLC/CSA DATE 05/10
VERIFICATION BY Cartesian Surveys Inc. DATE 5/..
DRAWINGS CORRECTED BY TWLLC DATE 05/0
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
C-G=0.99967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
RONALD R. BOHANNAN NEW MEXICO 9868 PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: SA DATE: 05/06/08
DRAWN BY: BJF DATE: MM/DD/YYY
DRAWING NAME: 2626-SH08-UT-SITE WATER & SEWER JOB NO.: 27101
CHECKED BY: SA DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
UTILITY IMPROVEMENTS
8" SAS LINE: STA: 10+25 TO 14+43.16

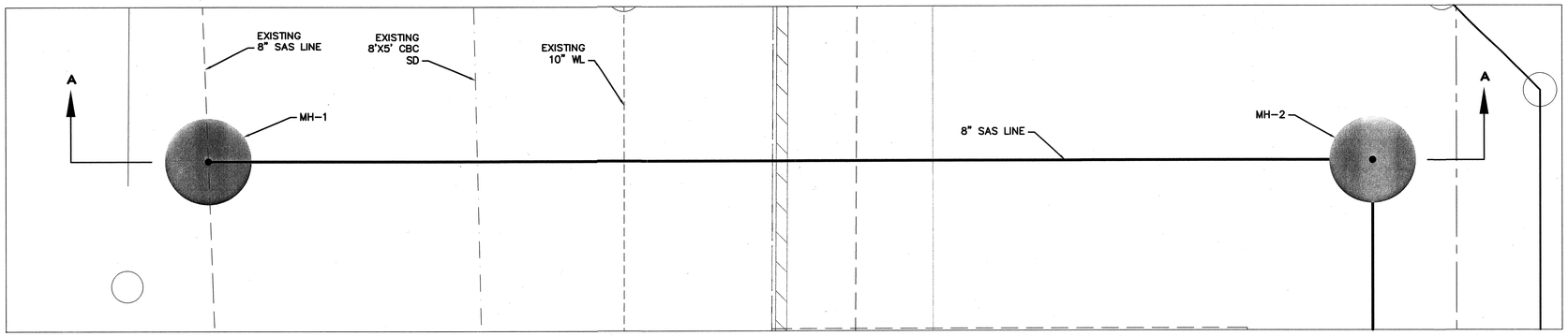
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 2 1 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 0 6 2009 DESIGN REVIEW COMMITTEE			

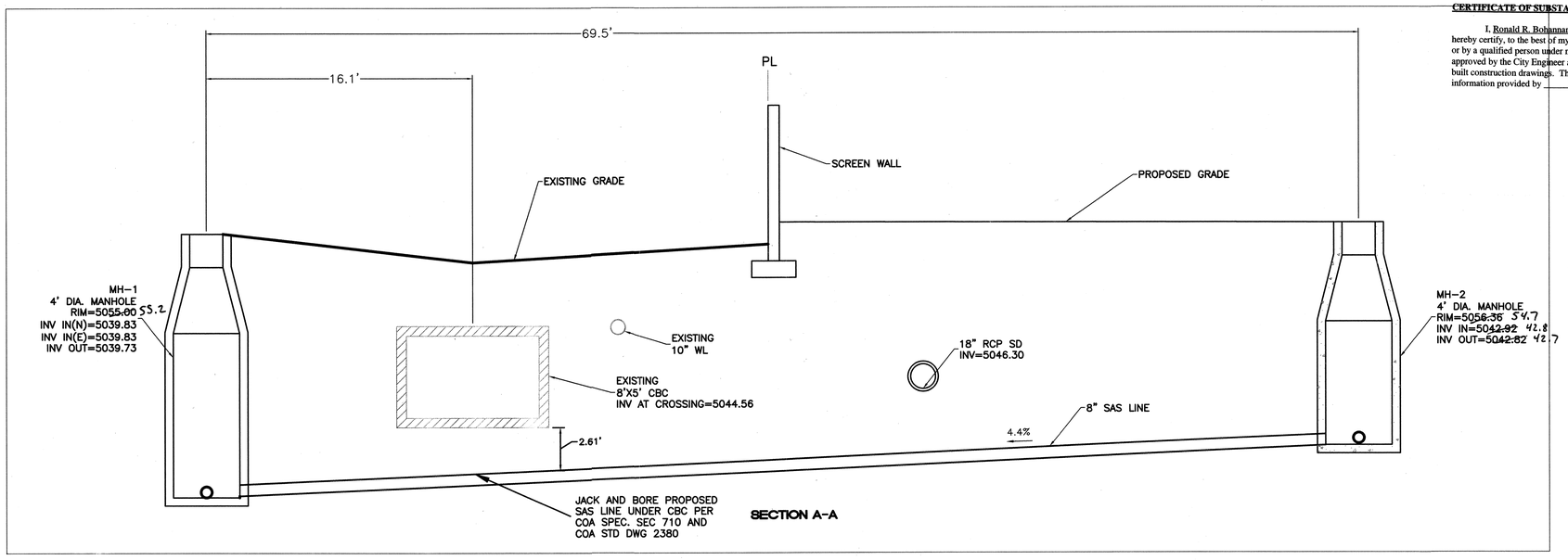
CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 13 OF 28

Z:\2006\2626\2626-Project\dwg\Construction\City Of Albuq\2626-SH08-UT-Site Water & Sewer.dwg, 13, 9/11/2008 12:41:56 PM

RECORD DRAWINGS

SCANNED BY
PLANNING



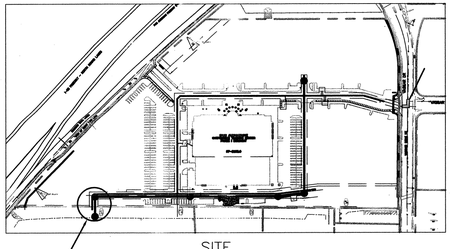


SECTION A-A

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Engineer's Seal & Signature
RONALD R. BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER
August 2007



SITE

SECTION DETAIL AREA

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CAUTION:
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

SCALE: 1"=4'

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 10-7-10
WORK STAKED BY Cartesian Surveys Inc. DATE 10-7-10
INSPECTOR'S CERTIFICATE BY TWLLC/COA DATE 05/10
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 5/10
DRAWINGS CORRECTED BY TWLLC DATE 05/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. Da=00°12'39" Elev=5079.46 (NGVD29)

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
RAY BOHANNAN 7868 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
10/31/08

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: SA DATE: 05/06/08
DRAWN BY: BJF DATE: MM/DD/YYY
DRAWING NAME: 2626-SH08-UT-SITE WATER & SEWER JOB NO.: 27101
CHECKED BY: SA DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

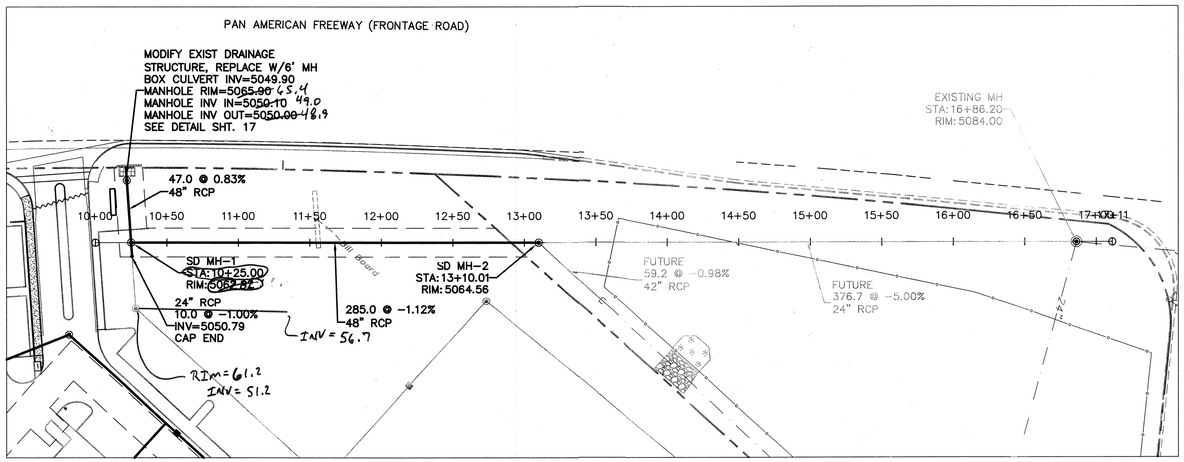
TITLE: **CARPENTERS CENTER**
UTILITY IMPROVEMENTS
SAS SECTION DETAIL

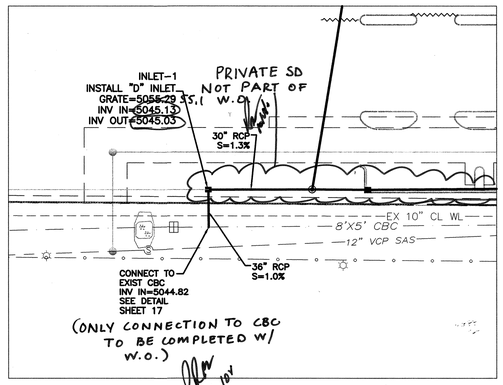
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE			

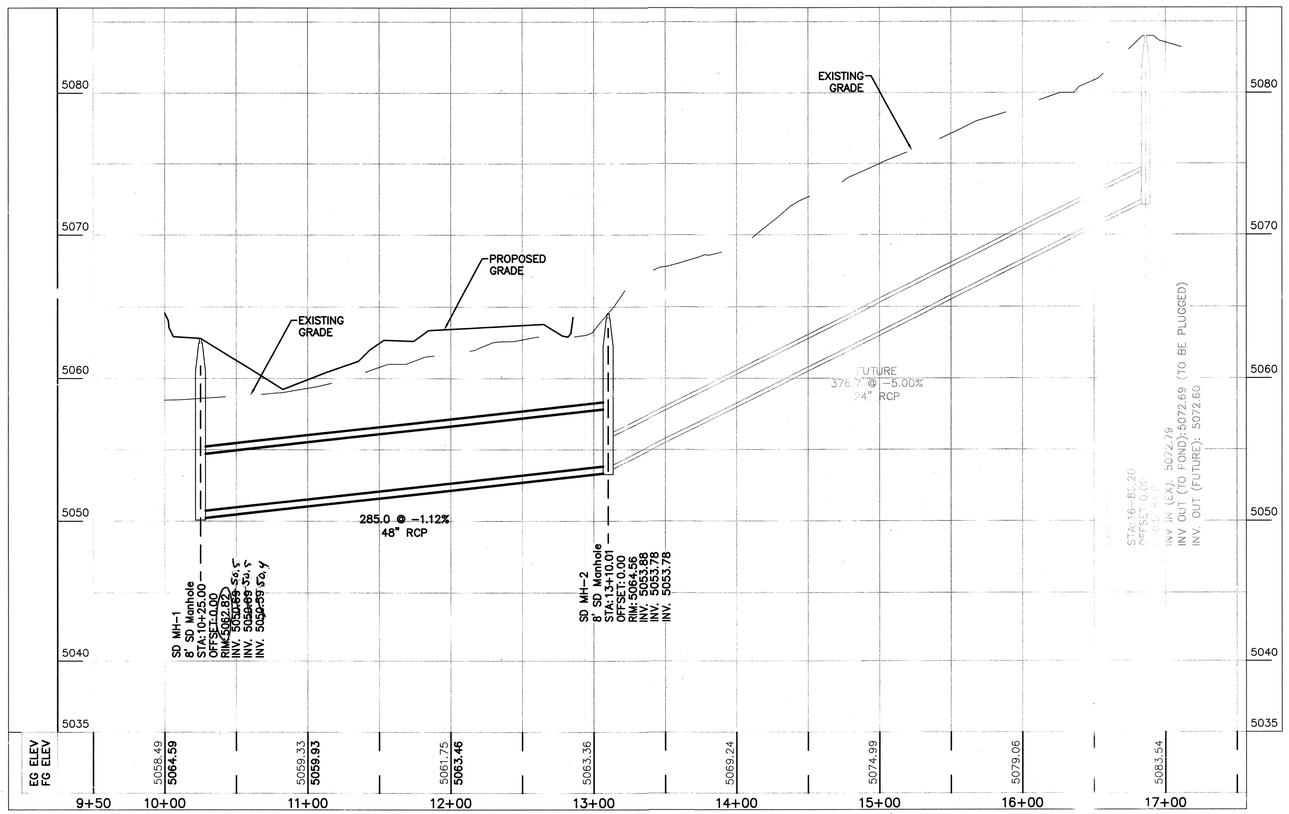
CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 14 OF 28

Z:\2626-Project\dgn\Construction\City Of Albuq\2626-SH08-PT-Site Water & Sewer.dgn 7/8/2008 1:42:22 PM

SCANNED BY
PLANNING







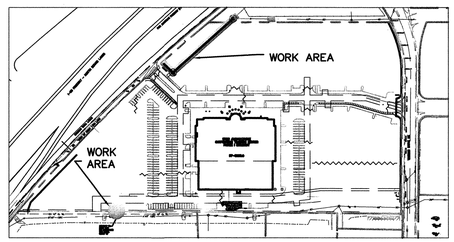
GENERAL NOTES:

1. BASIS OF STATIONING IS CENTERLINE OF STORM DRAIN LINE.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys. , NMPS number 18374 .

Engineer's Seal & Signature



SITE

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CAUTION:

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

50 25 0 25 50

SCALE: HORIZ. 1"=50'
VERT. 1"=5'

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 10/30/10
WORK STAKED BY Cartesian Surveys Inc. DATE 05/10
INSPECTOR'S FIELD CHANGES BY TWLLC/CDA DATE 5/10
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 5/10
DRAWINGS CORRECTED BY TWLLC DATE 06/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Do=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: SA	DATE: 05/06/08
		DRAWN BY: BJF	DATE: MM/DD/YYY
		DRAWING NAME: 2626-SH12-SD-STORM DRAIN IMPROVEMENTS	JOB NO.: 27101
		CHECKED BY: SA	DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

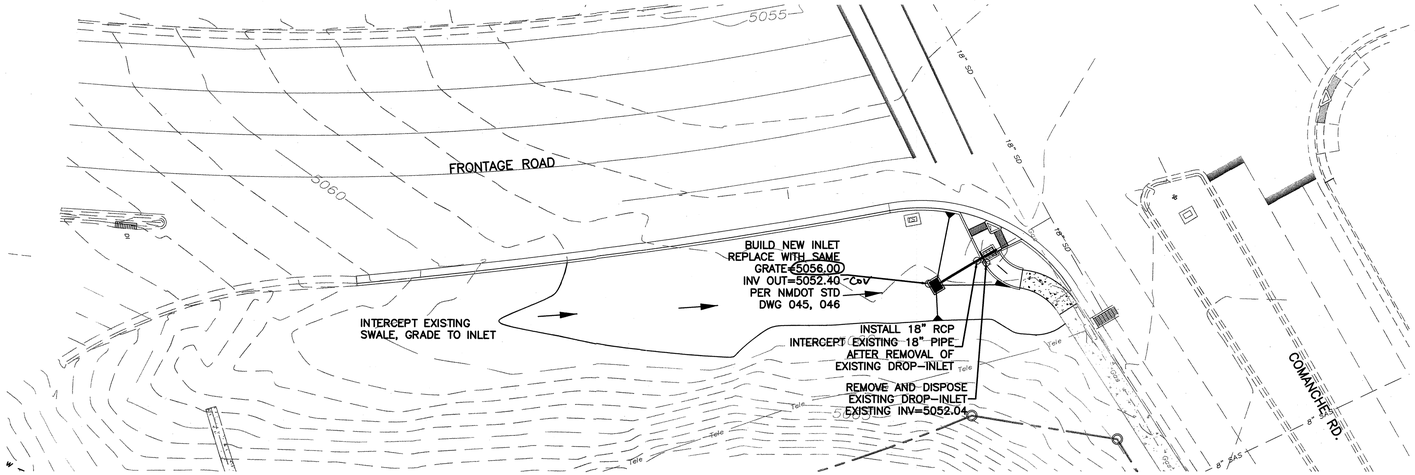
TITLE: **CARPENTERS CENTER**
STORM DRAIN IMPROVEMENTS
48" RCP STORM DRAIN: STA: 0+00.00 TO 17+11.00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 15 OF 28

Z:\2626\2626\2626-Project d g\Construction\City Of Albuq\2626-SH12-SD-Storm Drain improvements.d g, 5/8/2008 7:22:47 PM

SCANNED BY PLANNING



LEGEND

- CURB & GUTTER
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE
- 5010 EXISTING CONTOUR MAJOR
- 5011 EXISTING CONTOUR MINOR
- x 5048.25 EXISTING SPOT ELEVATION

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez., of Cartesian Surveys., NMPS number 18374.

Engineer's Seal & Signature
RONALD R. BOHANNAN NEW MEXICO 10866 REGISTERED PROFESSIONAL ENGINEER

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

N

20 10 0 10 20

SCALE: HORIZ. 1"=20'

NOTE:

PLAN FOR REFERENCE ONLY

FRONTAGE ROAD PLANS TO BE REVIEWED AND APPROVED THRU NMDOT DRIVEWAY PERMIT PROCESS

ENGINEER'S SEAL

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-O=0.99967080
Dg=00°12'39"
Elev=5079.46 (NGVD29)

AS BUILT INFORMATION
CONTRACTOR franklin's Earthmoving DATE 8-7-10
WORK STAKED BY Cartesian Surveys Inc. DATE 05/10
INSPECTOR'S ACCEPTANCE BY TWLLC/COA DATE 05/10
AS-BUILT VERIFICATION BY Cartesian Surveys Inc. DATE 5/10
DRAWINGS CORRECTED BY TWLLC DATE 05/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

NO.	REMARKS	BY	DATE
	DESIGN		

DESIGNED BY: SA DATE: 05/06/08
DRAWN BY: BJF DATE: MM/DD/YYY
DRAWING NAME: 2626-SHO5-SD-STORM DRAIN_COMANCHE & FRONTAGE RD JOB NO.: 27101
CHECKED BY: SA DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
STORM DRAIN IMPROVEMENTS
PAN AMERICAN FRONTAGE RD. AT COMANCHE

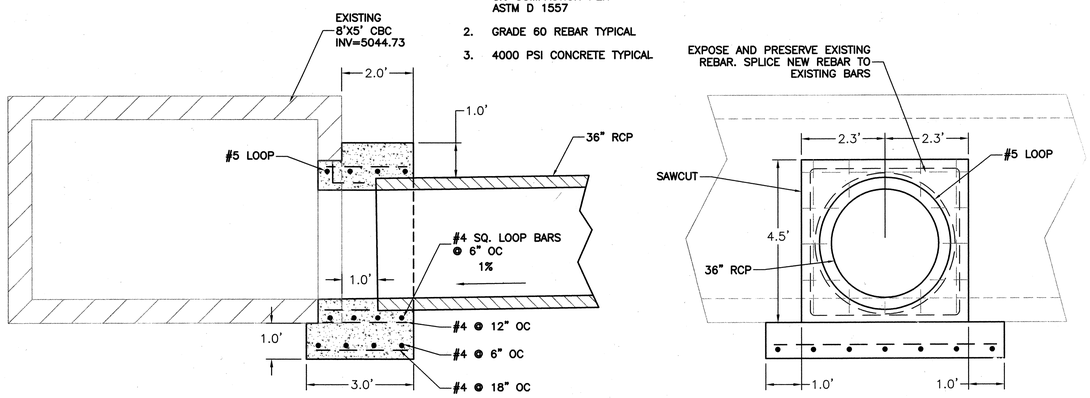
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 16 OF 28

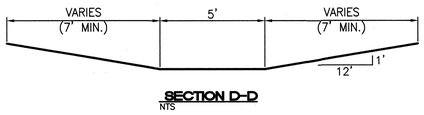
Z:\2006\26026\2626-Project\dwg\Construction\NMDOT\2626-SH05-SD-Storm Drain_Comanche & Frontage Rd.dwg, City DRC, 10/21/2008 1:48:32 PM

SCANNED BY
PLANNING

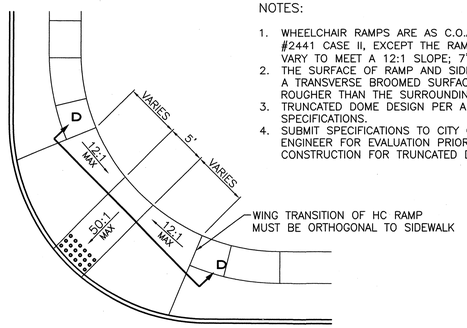
NOTES:
1. COMPACTED SUBGRADE 5% COMPACTION PER ASTM D 1557
2. GRADE 60 REBAR TYPICAL
3. 4000 PSI CONCRETE TYPICAL



CBC CONNECTION DETAIL

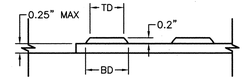


SECTION D-D
NTS

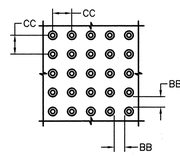


NOTES:
1. WHEELCHAIR RAMPS ARE AS C.O.A. STD DWG #2441 CASE II, EXCEPT THE RAMP WIDTH WILL VARY TO MEET A 12:1 SLOPE; 7' MIN REQ.
2. THE SURFACE OF RAMP AND SIDES SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
3. TRUNCATED DOME DESIGN PER A.D.A. SPECIFICATIONS.
4. SUBMIT SPECIFICATIONS TO CITY CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION FOR TRUNCATED DOME.

COA WHEELCHAIR RAMP DETAIL (TYP.)
NTS



DOME SECTION
BD – BASE DIAMETER 0.9" MIN
TD – TOP DIAMETER 50% OF BD MIN TO 65% OF BD MAX



DOME SPACING
CC – CENTER TO CENTER SPACING
2.35"
BB – BASE TO BASE SPACING
1.48" MIN

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM–SILTY GRAVEL/SILTY SAND, GRAVEL–SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL
BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR TEES*						
SIZE	LENGTH ALONG RUN**					
	10'	8'	6'	4'	2'	0'
12x12x12	61	68	76	83	90	98
12x12x10	39	48	56	65	74	83
12x12x8	15	26	37	48	59	70
12x12x6	1	1	9	24	38	53
12x12x4	1	1	1	1	16	37
10x10x10	46	54	61	68	76	83
10x10x8	25	34	43	52	61	70
10x10x6	1	5	17	29	41	53
10x10x4	1	1	1	2	20	37
8x8x8	34	42	49	56	63	70
8x8x6	6	15	25	34	43	53
8x8x4	1	1	1	10	24	37
6x6x6	7	24	31	39	46	53
6x6x4	1	1	6	17	27	37

*RESTRAINTS ONLY PLACED ON THE BRANCH
**LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)					
SIZE	HORIZONTAL BENDS				VALVES
	90°	45°	22–1/2°	11–1/4°	DEAD END
12	45	19	9	4	102
10	38	16	8	4	86
8	32	13	6	3	72
6	25	10	5	2	55
4	18	7	4	1	39

RESTRAINED JOINT LENGTHS FOR REDUCERS***			
SIZE	L. SIDE	SIZE	L. SIDE
12x10	50	10x6	53
12x8	54	10x4	70
12x6	74	8x6	30
12x4	88	8x4	52
10x8	29	6x4	28

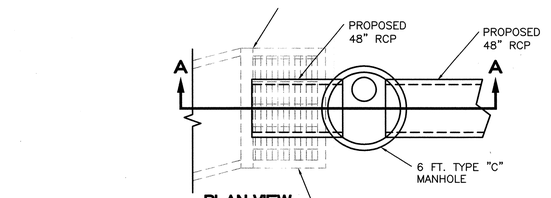
***RESTRAINTS ONLY PLACED ON LARGE LARGE SIDE

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

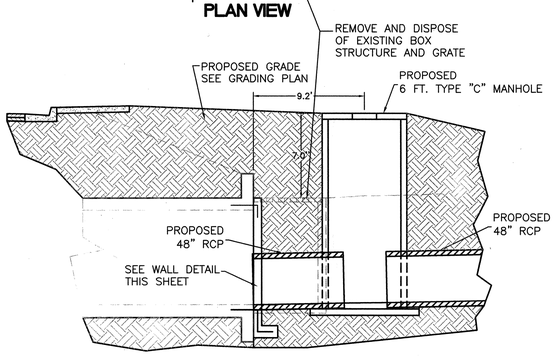
DEPTH OF BURY: 3.0' MINIMUM TO 6.0'
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM–SILTY GRAVEL/SILTY SAND, GRAVEL–SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL
BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR VERTICAL OFFSETS/BENDS (EACH SIDE)				
SIZE	HORIZONTAL BENDS			
	90°	45°	22–1/2°	11–1/4°
12 UPPER	DON'T USE	42	20	10
LOWER		10	5	2
10 UPPER	DON'T USE	36	17	8
LOWER		8	4	2
8 UPPER	DON'T USE	30	14	7
LOWER		7	3	2
6 UPPER	DON'T USE	23	11	5
LOWER		5	3	1
4 UPPER	DON'T USE	16	8	4
LOWER		4	2	1

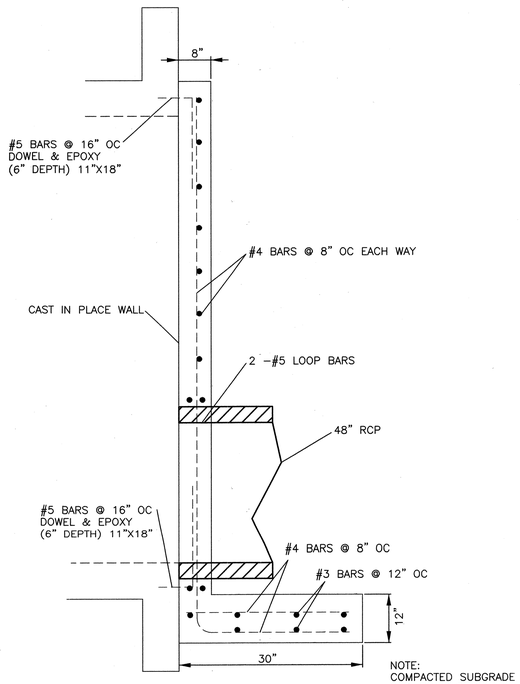


PLAN VIEW



SECTION A-A

MANHOLE STRUCTURE MODIFICATION DETAIL
SCALE: 1"=5'



NOTE:
COMPACTED SUBGRADE
95% COMPACTION
PER ASTM D 1557

SECTION A-A WALL DETAIL
NTS

FOR REFERENCE ONLY

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858–3100

AS BUILT INFORMATION
CONTRACTOR: Franklin's Earthmoving
WORK STAKED BY: Cartesian Surveys Inc. DATE: 04/2/08
INSPECTOR'S ACCEPTANCE: TWILL / COA DATE: 05/16
FIELD VERIFICATION BY: Cartesian Surveys Inc. DATE: 5/7
DRAWING CORRECTED BY: TWILL DATE: 05/16
MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO.:

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Do=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
JEFFREY BOHANNAN REVILLA 7868 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY: SA — DATE: 05/06/08
DRAWN BY: BJF — DATE: MM/DD/YYY
DRAWING NAME: 2626-SH11-DETAIL SHEETS — JOB NO.: 27101
CHECKED BY: SA — DATE: 07/22/08

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

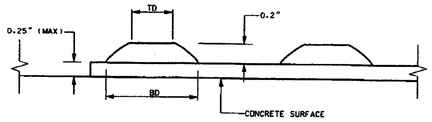
TITLE: **CARPENTERS CENTER**
DETAIL SHEET

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 21 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 17 OF 28

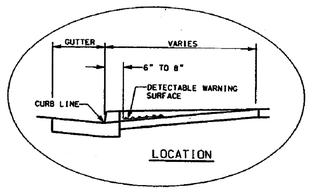
G:\2626\2626-Project\dgn\Carpenters Ctr Of Albq\2626-Sh11-Details a, T, 9/8/2008 8:27:17 PM

SCANNED BY PLANNING

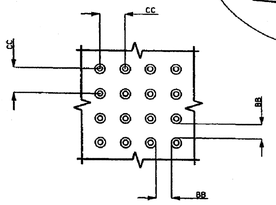


DOME SECTION

BD - BASE DIAMETER
0.9" MIN TO 1.4" MAX
TD - TOP DIAMETER
50% OF BD MIN TO 65% OF BD MAX



LOCATION



DOME SPACING

CC - CENTER TO CENTER SPACING
1.6" MIN TO 2.4" MAX
BB - BASE TO BASE SPACING
0.65" MIN

DEFINITIONS:

DETECTABLE WARNINGS. A SURFACE FEATURE BUILT IN OR APPLIED TO WALKING SURFACES OR OTHER ELEMENTS TO WARN OF HAZARDS ON A CIRCULATION PATH TO AID PERSONS WITH VISUAL IMPAIRMENTS.

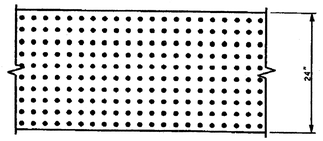
CURB LINE. A LINE AT THE FACE OF THE CURB THAT MARKS THE TRANSITION BETWEEN THE SIDEWALK AND THE GUTTER OR ROADWAY.

LOCATION:

1. DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE A CURB RAMP OR LANDING CONNECTS TO A CROSSWALK AND OR PEDESTRIAN ROUTE CROSSING A ROADWAY.
2. DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 INCHES (150 MM) MINIMUM AND 8 INCHES (205 MM) MAXIMUM FROM THE CURB LINE.
3. MEDIAN AND REFUGE ISLANDS SHALL HAVE DETECTABLE WARNINGS. DETECTABLE WARNINGS AT CUT THROUGH ISLANDS SHALL BE SEPARATED BY A 24 INCH (610 MM) MINIMUM LENGTH OF WALKWAY WITHOUT WARNINGS.
   EXCEPTION: DETECTABLE WARNINGS SHALL NOT BE REQUIRED ON CUT THROUGH ISLANDS WHERE THE CROSSINGS ARE CONTROLLED BY SIGNALS AND ARE TIMED FOR FULL CROSSING ON MEDIANS LESS THAN 7' WIDE.

NOTES:

1. DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION OR RECONSTRUCTION OF STREETS, CURBS, OR SIDEWALKS BY ALL PUBLIC AGENCIES AND BY ALL PRIVATE ORGANIZATIONS CONSTRUCTING FACILITIES FOR PUBLIC USE.
2. SIDEWALKS RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.
4. ALL PRODUCTS USED FOR DETECTABLE WARNING SURFACES SHALL BE ON THE DEPARTMENT'S APPROVED PRODUCT LIST.



DOME ALIGNMENT

DETECTABLE WARNING SURFACES SHALL EXTEND 24" MIN. IN THE DIRECTION OF TRAVEL AND FULL WIDTH OF THE CURB RAMP, LANDING, OR TRANSITION. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE CROSSWALK TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

METRIC CONVERSIONS

0.2"	5.1 MM
0.25"	6.4 MM
0.65"	16.5 MM
0.9"	22.9 MM
1.4"	35.6 MM
1.6"	40.6 MM
2.4"	61 MM
24"	610 MM

N.T.S.

NO.	DATE	REV. BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE

APPROVAL RECOMMENDED ENGINEER 12/16/03 DATE

PAD-001 01/01/04 Sheet 10 of 10

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 10-2-08
WORK DONE BY Cartesian Surveys Inc. DATE 10-2-08
INSPECTOR'S ACCEPTANCE BY TWLLC/CoA DATE 05/10
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 5/9
DRAWINGS CORRECTED BY TWLLC DATE 05/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
NEW MEXICO STATE HIGHWAY COMMISSION
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Dd=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
MOHAMMAD SEYEDI NEW MEXICO 17868 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY: SA DATE: 8-1-08
DRAWN BY: BJF DATE: 8-1-08
DRAWING NAME: 2626-SH11-DETAIL SHEETS JOB NO.: 26026
CHECKED BY: SA DATE: 8-1-08

FOR REFERENCE ONLY

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

NEW MEXICO DEPARTMENT OF TRANSPORTATION PUBLIC WORKS ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
PAVING IMPROVEMENTS
DETAIL SHEET

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 17A OF 28

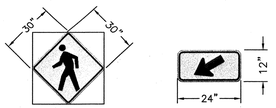
Z:\2006\26026\2626-Project\dwg\Construction\City Of Albuq\2626-SH11-Detail Sheets.dwg, 17A, 10/20/2008 2:10:23 PM

SCANNED BY
PLANNING

RECORD DRAWINGS

LINE–CURVE TABLE			
Line #/Curve #	Length	Direction/Delta	Radius
L1	332.720	S36° 24' 06.00"E	
C3	124.422	15.9482	447.000

VASSAR DRIVE NE. STATIONING ALIGNMENT – LINE & CURVE DATA



W11–2

W16–7P

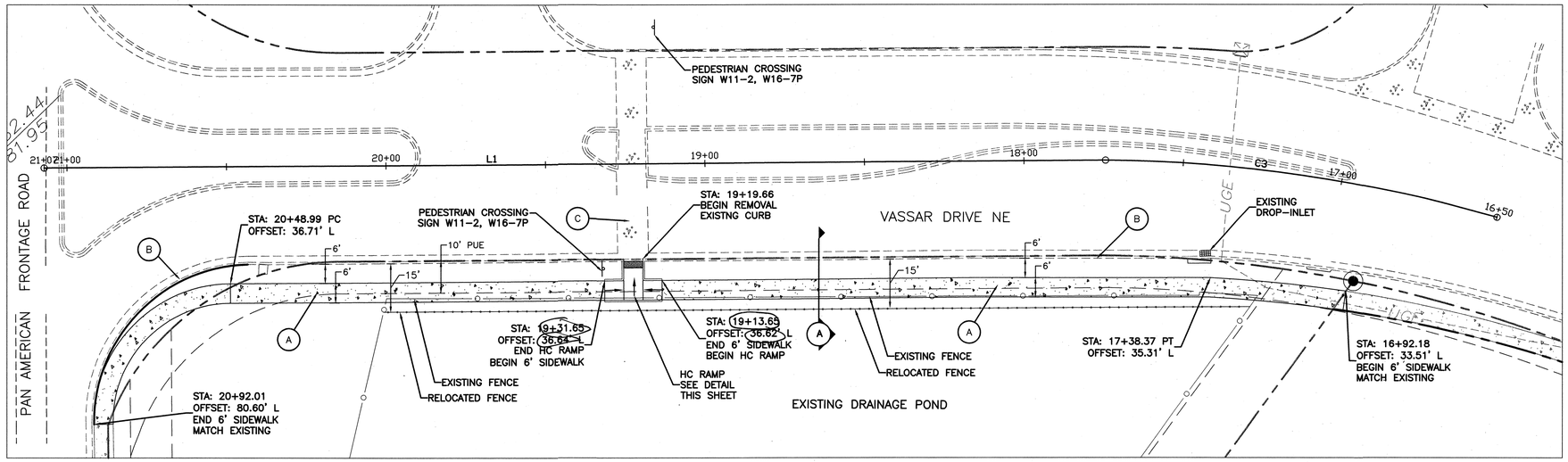
NOTE:
ALL SIGNS SHALL BE MADE IN ACCORDANCE WITH THE M.U.T.C.D. (CURRENT EDITION)

LEGEND

- EXISTING BOUNDARY LINE
- EXISTING EASEMENT
- NEW SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING FENCE

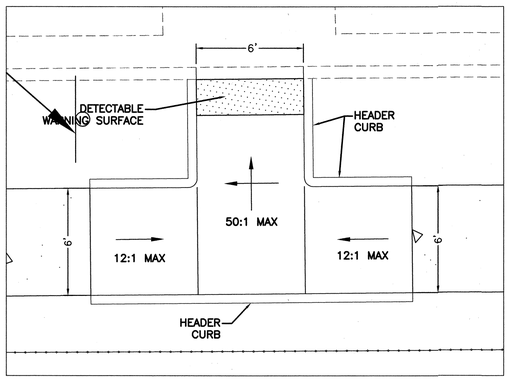
KEYED NOTE:

(A) 6' CONC. SIDEWALK PER COA. DWG # 2430
(B) EXISTING STD CURB & GUTTER
(C) EXISTING CONCRETE CROSS WALK

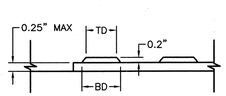


NOTE:

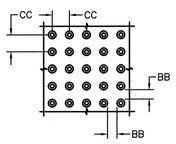
SIDEWALK EASEMENT TO BE GRANTED BY DOCUMENT FOR SIDEWALK



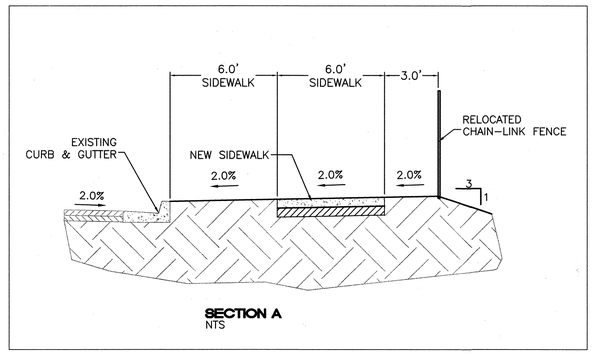
CURB RAMP DETAILS



DOME SECTION
BD – BASE DIAMETER 0.9" MIN
TD – TOP DIAMETER 50% OF BD MIN TO 65% OF BD MAX



DOME SPACING
CC – CENTER TO CENTER SPACING
2.35"
BB – BASE TO BASE SPACING
1.48" MIN



SECTION A
NTS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys,. NMPS number 18374 .

Engineer's Seal & Signature

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

20 10 0 10 20

SCALE: HORIZ. 1"=20'

AS BUILT INFORMATION
CONTRACTOR: Franklin's Earthmoving
WORK STAKED BY: Cartesian Surveys Inc. DATE: 6-27-08
INSPECTOR'S ACCEPTANCE BY: TWLLC / COA DATE: 6/19
FIELD VERIFICATION BY: Cartesian Surveys Inc. DATE: 5/0
DRAWINGS CORRECTED BY: TWLLC DATE: 05/0
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.
G–G=0.99967080
Dg=00°12'39"
Elev=5079.46 (NGVD29)

BENCH MARKS
1–25–20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
RONALD RAY BOHANNAN NEW MEXICO 18374 PROFESSIONAL ENGINEER 11/19/08

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: SA	DATE: 05/06/08
		DRAWN BY: BJF	DATE: MM/DD/YYY
		DRAWING NAME: 2626–SH02–PV–VASSAR AVE	JOB NO.: 27101
		CHECKED BY: SA	DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858–3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
CARPENTERS CENTER
PAVING IMPROVEMENTS
VASSAR AVE.: STA: 16+50 TO 21+00

DESIGN REVIEW COMMITTEE: APPROVED NOV 18 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE

MO./DAY/YR.	MO./DAY/YR.

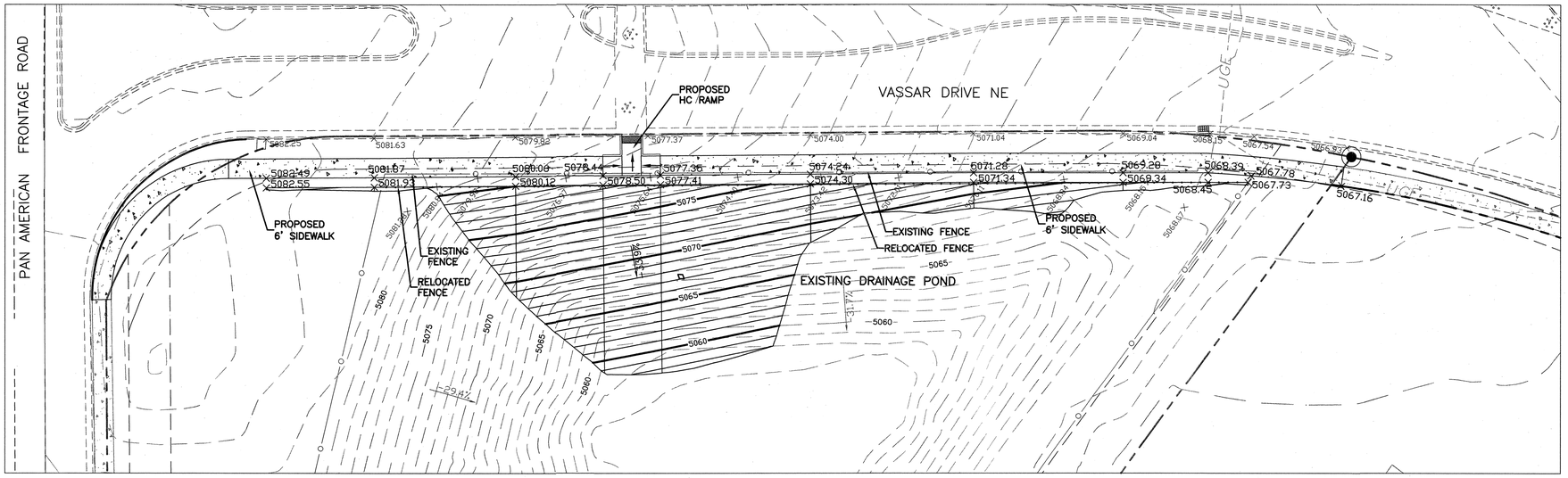
CITY PROJECT NO. 554483 | ZONE MAP NO. G–16–Z | SHEET 17B OF 28

Z:\2626\2626\Project\dgn\Construction\City Of Albuq\Change Order\2625–SH02–Pv–ASSAP 4\Edwg, Jasser & Frontage Road, 11/17/2008 2:40:55 PM

SCANNED BY
PLANNING

LEGEND

- EXISTING BOUNDARY LINE
- EASEMENT
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING FENCE
- 5011 EXISTING CONTOUR
- 5010 EXISTING INDEX CONTOUR
- x 5048.25 EXISTING SPOT ELEVATION
- 5011 PROPOSED CONTOUR
- 5010 PROPOSED INDEX CONTOUR
- x 5048.25 PROPOSED SPOT ELEVATION



SCALE: HORIZ. 1"=20'

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Ronald R. Bohannan, Registered Professional Engineer, State of New Mexico, 7868

Date: August, 2001

AS BUILT INFORMATION

CONTRACTOR: Franklin's Earthmoving

WORK STAKED BY: Cartesian Surveys Inc. DATE: 6-7-08

INSPECTOR'S ACCEPTANCE BY: TWLLC/COA DATE: 05/06/08

FIELD VERIFICATION BY: Cartesian Surveys Inc. DATE: 7-2-08

DRAWINGS CORRECTED BY: TWLLC DATE: 05/06/08

MICRO-FILM INFORMATION

RECORDED BY: DATE:

NO.:

BENCH MARKS

1-25-20

CENTRAL STATION DATA

NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95

G-G=0.99967080

Do=00°12'39"

Elev=5079.46 (NGVD29)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

Ronald R. Bohannan, New Mexico, 7868, Professional Engineer

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY: SA — DATE: 05/06/08
DRAWN BY: BJF — DATE: MM/DD/YYY
DRAWING NAME: 2626-SH03-GR-POND GRADING — JOB NO.: 27101
CHECKED BY: SA — DATE: 07/22/08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
POND GRADING IMPROVEMENTS
VASSAR AVE.: STA: 16+50 TO 21+00

DESIGN REVIEW COMMITTEE: APPROVED NOV 18 2008 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED MAY 18 2009 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE — MO./DAY/YR. — MO./DAY/YR.

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 17C OF 28

Z:\2606\26026\2726-Projects\Construction\Ch. Of Alb\Change Order\2626-Sht3-GR-POND GRADING.dwg, Grading Plan, 11/17/2008 2:39:12 PM

SCANNED BY PLANNING

SIGNAL NOTES

1. ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994).
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
4. THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
5. SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE BARS. SPLICING OF TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES. SPLICING OF VIDEO DETECTION COAXIAL CABLE WILL NOT BE PERMITTED FROM THE MASTARM BASE TO THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE DETECTOR TO THE CONTROLLER CABINET.
6. ALL LOOP LEAD-IN CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY PHASE AND LOOP NUMBER. ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLE SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
7. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, STEEL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
8. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS(857-8000) THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
9. THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE COMPANY TO ESTABLISH ELECTRICAL SERVICE IN THE CITY'S NAME. THE CONTRACTOR SHALL PAY THE LOCAL POWER COMPANY ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
10. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY TRAFFIC ENGINEERING YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
11. LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.
12. IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
13. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES, THE REQUIREMENTS FOR A SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.
14. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
15. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
16. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PILLBOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
17. CONTRACTOR SHALL COIL EXCESS INTERCONNECT CABLE AT ALL NEW OR EXISTING TRAFFIC MANHOLES BETWEEN SPLICE CABINET OR CONTROL CABINETS WITH SPLICE BARS. IF MORE THAN ONE MANHOLE EXISTS BETWEEN SPLICE CABINETS OR CONTROL CABINETS WITH SPLICE BARS, THEN COILING IS ONLY REQUIRED AT ONE OF THE MANHOLES. THE FOLLOWING QUANTITIES OF COMMUNICATION CABLE SHALL BE COILED:
    12 PAIR – 50 FT.
    25 PAIR – 50 FT.
    50 PAIR – 25 FT.
    75 PAIR – 25 FT.
18. THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
19. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING. IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
20. THE CONTRACTOR SHALL VIDEO TAPE THE EXISTING TRAFFIC SIGNAL EQUIPMENT IN VHS FORMAT AND REVIEW THE TAPE WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL PRIOR TO BEGINNING ANY REMOVALS OF SIGNAL EQUIPMENT. THE TAPE SHALL BECOME THE PROPERTY OF THE CITY AND MAY BE USED TO RESOLVE ANY QUESTIONS RELATED TO THE ORIGINAL CONDITION AND QUALITY OF EXISTING EQUIPMENT. THE EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER CABINETS, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE.
21. CABINET AND CONTROLLER NEED TO BE I.D.C. 820A.

INCIDENTAL ITEMS *

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAMS.
3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHEILDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. HAULING OF MATERIAL TO BE DISPOSED TO CITY LANDFILL.
8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY TRAFFIC ENGINEERING OPERATIONS YARD.
9. LEAN FILL FOR CONDUIT TRENCNES.
10. PULL BOX ADJUSTMENT TO GRADE.
11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL
12. REMOVAL AND REPLACEMENT IN KIND OF BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
13. COST FOR PUBLIC SERVICE COMPANY TO PROVIDE ELECTRICAL SERVICE.

* ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
■	▩	PULL BOX
●	○	SERVICE POLE
M	M	METER PEDESTAL
C	C	CONTROLLER CABINET
———	———	CONDUIT RUN (SIGNALS)
———	———	CONDUIT RUN (INTERCONNECT)
▭	▭	LOOP DETECTOR
←●	←○	TRAFFIC SIGNAL PEDESTAL POLE
1	1E	CONDUIT RUN NUMBER (SIGNAL)
S1	S1	CONDUIT RUN NUMBER (POWER SERVICE)
C1	C1	CONDUIT RUN NUMBER (INTERCONNECT)
F1	F1	CONDUIT RUN NUMBER (WARNING BEACON)
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACK PLATE, AND OPTICAL DETECTOR
		TRAFFIC SIGNAL, BACK PLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		TRAFFIC SIGNAL, BACK PLATE, OPTICAL DETECTOR, LUMINAIRE,
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
SC	SC	SPLICE CABINET
●	⊘	TRAFFIC MANHOLE
		VIDEO CAMERA

DEFINITIONS

1. "ENGINEER" – FOR THE PURPOSES OF THIS PROJECT, THE TERM "ENGINEER" IS SYNONYMOUS WITH THE TERM "PROJECT MANAGER".

FOR REFERENCE ONLY

AS BUILT INFORMATION
CONTRACTOR: Franklin's Earthmoving DATE: 8-1-08
STAKED BY: Cartesian Surveys Inc. DATE: 8-1-08
INSPECTION BY: TWLLC/CDA DATE: 8-1-08
FIELD CHANGES BY: Cartesian Surveys Inc. DATE: 8-1-08
VERIFICATION BY: TWLLC DATE: 8-1-08
CORRECTED BY: TWLLC DATE: 8-1-08
MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO.:

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
RAY BENAVIDEZ
NEW MEXICO 7869
10-31-08

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY: SA DATE: 8-1-08
DRAWN BY: BJF DATE: 8-1-08
DRAWING NAME: SIGNAL IMPROVEMENTS – NOTES AND DETAILS JOB NO.: 26026
CHECKED BY: SA DATE: 8-1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
NOTES AND LEGEND

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 18 OF 28

Z:\2026\26026\2026-Project\dwg\Construction Signal Improvements\Signal Improvements - Notes and Details.dwg, 10/6/2008 5:38:05 PM

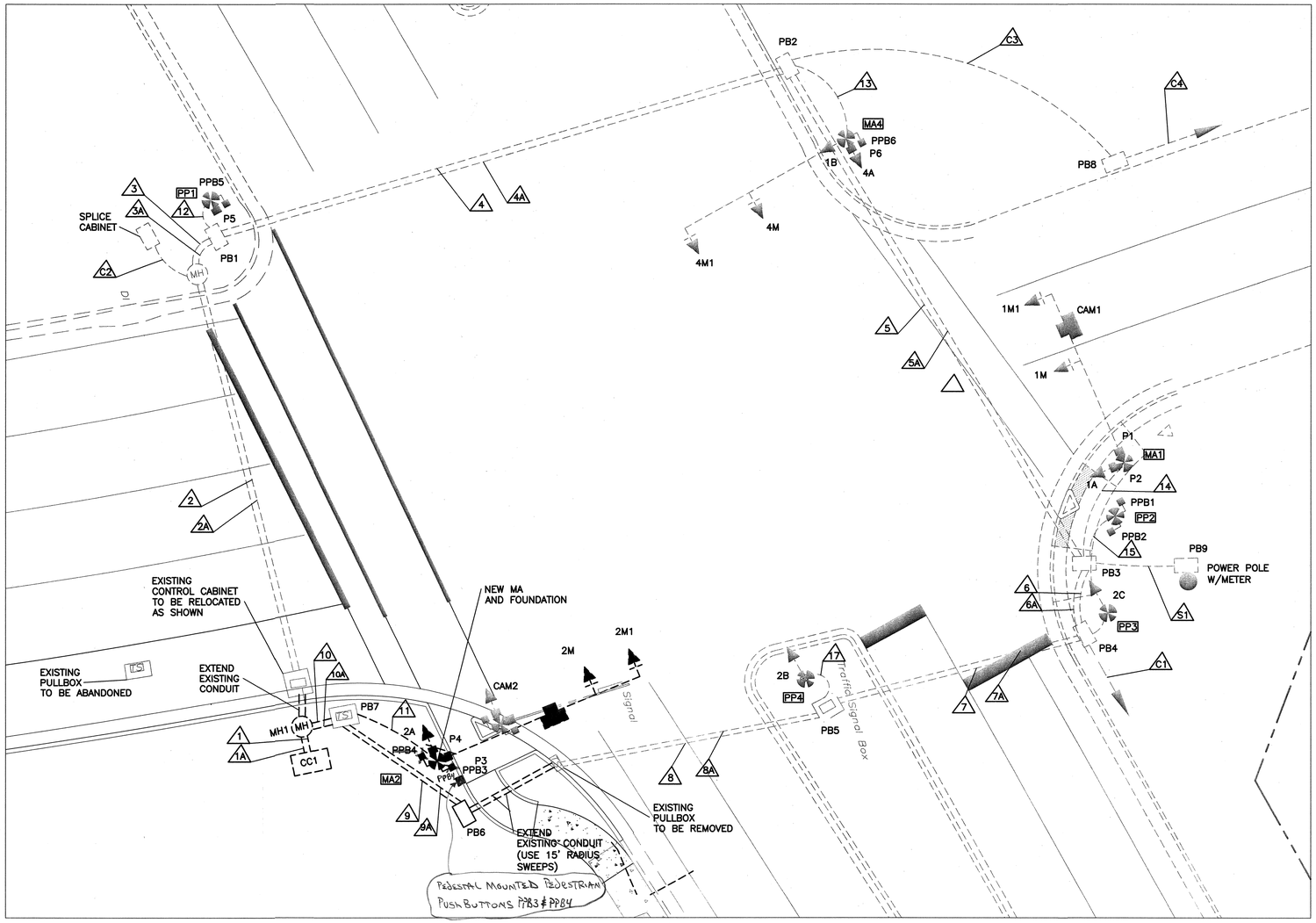
SCANNED BY PLANNING

VIDEO COAXIL CABLE

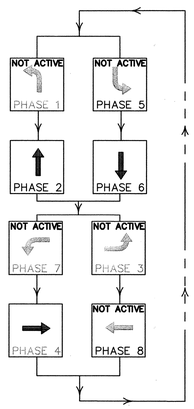
FROM	TO	CONDUIT TRACE	# PAIR x LENGTH	TOTAL LENGTH
CAM1	CONTROLLER	MA1–11–1A	1 @ 192'	192'
CAM2	CONTROLLER	MA3–13–4A–5A–1A	1 @ 91'	91'
	CONTROLLER			
				TOTAL= 283'

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
PPB1	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
SC1	SPLICE CABINET NUMBER
PB1	PULL BOX NUMBER (SIGNALS)
PBS1	PULL BOX NUMBER (POWER)
PBC1	PULL BOX NUMBER (INTERCONNECT)
DL1(1)	DETECTOR LOOP PHASE # (LOOP #)
3A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
BP	BACK PLATE
EC	EXTENDED CALL LOOP DETECTOR
SD	SYSTEM LOOP DETECTOR
MH1	TRAFFIC MANHOLE NUMBER
M	METER



SIGNAL PHASING



SIGNAL POLES AND MASTARMS

ID#	TYPE	STATION	OFFSET	LUMINARE MOUNTING HEIGHT	LUMINARE ARM
MA2	MASTARM 35' TYPE III	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–

SYMBOL KEY

- MA1 — SIGNAL & CABINET ID
- 99 — NEW CONDUIT RUN ID
- S1 — CONDUIT RUN ID (POWER SERVICE)
- C1 — CONDUIT RUN ID (INTERCONNECT)

TYPICAL SIGNAL FACE LENS ARRANGEMENTS

NOTES

1. PULLBOXES ARE TO BE LARGE PULL BOXES.
2. SEE SHEET 08 – FOR STRIPING PLAN.
3. PROVIDE EXTENSION @ PPB4 AND PPB3 PER ADA GUIDELINES.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West, LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or persons under my direction with survey information provided by Daniel J. Martinez, of Cartesian Surveys, in NAD's number 18824.

10 5 0 5 10

SCALE: HORIZ. 1"=10'

AS BUILT INFORMATION
CONTRACTOR: Franklin's Earthmoving
WORK STAKED BY: Cartesian Surveys Inc. DATE: 6/16
INSPECTIONS BY: TWLLC / COA DATE: 05/10
AS-BUILTS BY: Cartesian Surveys Inc. DATE: 5/11
FIELD VERIFICATION BY: TWLLC DATE: 05/10
CORRECTED BY: MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
1-25-20
NEW MEXICO STATE PLANE COORDINATES
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Dc=00°12'39"
Elev=5079.46 (NGVD29)

ENGINEER'S SEAL

NO.	DATE	REMARKS	DESIGNED BY	DRAWN BY	DRAWING NAME	CHECKED BY
		REVISIONS	SA	BJF	2626-TRAFFIC SIGNAL_PAN AMERICAN & COMANCHE	SA
		DESIGN	DATE: 8-1-08	DATE: 8-1-08	JOB NO.: 26026	DATE: 8-1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

NEW MEXICO DEPARTMENT OF TRANSPORTATION PUBLIC WORKS ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
PAN AMERICAN FRONTAGE RD. AT COMANCHE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 04 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 19 OF 28

Z:\26026\26026\2626-Project\dwg\Construction\Signal Improvements\2626-Traffic Signal_Pan American & Comanche.dwg, 19-City, 10/20/2008 1:48:55 PM

SCANNED BY
PLANNING

CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE

CONDUIT FILL BY CONTRACTOR LENGTH AND TYPE

RUN ID ##	SIZE/LENGTH 1"	2"	3"	TYPE	REMARKS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #4 (# @ FT)	SCC #6 (# @ FT)	SCC #8 (# @ FT)	DLLIC (# @ FT)	CC #6 (# @ FT)	CC #12 (# @ FT)	VIDEO (# @ FT)
S1		15'		REC	PB9(METER) TO PB3				2 @ 20'						
C1		–		REC	PB4 TO NEXT INTER.										
C2		8'			MH2 TO SPLICE CAB.									2 @ 13'	
C3		53'			PB2 TO PB8									1 @ 58'	
C4		–			PB8 TO NEXT INTER.										
1			5'	REC	MH1 TO CC	2 @ 10'		2 @ 10'		1 @ 10'					
1A			5'		MH1 TO CC				2 @ 10'						2 @ 10'
2		65'+8'NEW			MH1 TO MH2	2 @ 78'		2 @ 78'		1 @ 78'					
2A		65'+8'NEW			MH1 TO MH2									1 @ 78'	
3			5'		MH2 TO PB1	2 @ 10'		2 @ 10'		1 @ 10'					
3A			5'		MH2 TO PB1									1 @ 10'	
4			95'		PB1 TO PB2	2 @ 100'		2 @ 100'		1 @ 100'					
4A			95'		PB1 TO PB2									1 @ 100'	
5			93'		PB2 TO PB3	2 @ 98'		2 @ 98'		1 @ 98'					
5A			93'		PB2 TO PB3										
6			10'		PB3 TO PB4	2 @ 15'		2 @ 15'		1 @ 15'					
6A			10'		PB3 TO PB4				2 @ 15'						1 @ 15'
7			42'		PB4 TO PB5	2 @ 47'		2 @ 47'		1 @ 47'					
7A			42'		PB4 TO PB5				2 @ 47'					1 @ 47'	1 @ 47'
8		43'+13'NEW			PB5 TO PB6	2 @ 61'		2 @ 61'		1 @ 61'					
8A		43'+13'NEW			PB5 TO PB6				2 @ 61'					1 @ 61'	1 @ 61'
9			26'		PB6 TO PB7	2 @ 31'		2 @ 31'		1 @ 31'					
9A			26'		PB6 TO PB7				2 @ 31'					1 @ 31'	1 @ 31'
10			7'		PB7 TO PB8	2 @ 12'		2 @ 12'		1 @ 12'					
10A			7'		PB7 TO PB8				2 @ 12'					1 @ 10'	1 @ 10'
11			16'		PB7 TO MA2	2 @ 21'		2 @ 21'		1 @ 21'					1 @ 21'
12			5'		PB1 TO PP1	2 @ 10'				1 @ 10'					
13			15'		PB2 TO MA4	2 @ 20'		2 @ 20'		1 @ 20'					
14			18'		PB3 TO MA1	2 @ 23'		2 @ 23'		1 @ 23'					1 @ 23'
15			7'		PB3 TO PP2	2 @ 12'				1 @ 12'					
16			5'		PB4 TO PP3	1 @ 10'				1 @ 10'					
17			6'		PB5 TO PP4	1 @ 10'				1 @ 10'					
MA1					BASE TO 1A	1 @ 15'									
MA1					BASE TO 1M	1 @ 35'									
MA1					BASE TO 1M1	1 @ 45'									
MA1					BASE TO CAM1										1 @ 40'
MA1					BASE TO P1 & P2	2 @ 15'									
PP1					BASE TO P5	1 @ 15'									
PP1					BASE TO PPB5	1 @ 9'									
PP2					BASE TO PPB1 & PPB2	2 @ 9'									
PP3					BASE TO 2C	1 @ 15'									
PP4					BASE TO 2B	1 @ 15'									
MA2					BASE TO 2A	1 @ 15'									
MA2					BASE TO 2M	1 @ 45'									
MA2					BASE TO 2M1	1 @ 50'									
MA2					BASE TO CAM2										1 @ 58'
MA2					BASE TO P3 & P4	2 @ 15'									
MA2					BASE TO PPB3 & PPB4	2 @ 9'									
MA4					BASE TO 4A	1 @ 15'									
MA4					BASE TO 4M	1 @ 35'									
MA4					BASE TO 4M1	1 @ 45'									
MA4					BASE TO 1B	1 @ 15'									
MA4					BASE TO P6	1 @ 15'									
MA4					BASE TO PPB3 & PPB4	1 @ 9'									
TOTAL NEW MATERIAL			134'			426'		426'	228'	213'					

ABBREVIATIONS

CC 6	COMMUNICATION CABLE–6 PAIR
CC 12	COMMUNICATION CABLE–12 PAIR
DLLIC	DETECTOR LOOP LEAD IN CABLE
MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CAM	VIDEO CAMERA

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Engineer's Seal & Signature

AS BUILT INFORMATION
CONTRACTOR franklin's Earthmoving DATE 11-12
WORKING DAYS STAKED BY Cartesian Surveys Inc. DATE 11-12
INSPECTOR'S ACCEPTANCE BY TWLLC/CAM DATE 05/10
FIELD DIMENSIONS VERIFICATION BY Cartesian Surveys Inc. DATE 5/10
CORRECTED BY TWLLC DATE 05/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-C=0.99967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS
NO. DATE BY REMARKS
DESIGN
DESIGNED BY: SA DATE: 8-1-08
DRAWN BY: BJF DATE: 8-1-08
DRAWING NAME: SIGNAL IMPROVEMENTS – NOTES AND DETAILS JOB NO.: 26026
CHECKED BY: SA DATE: 8-1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
CABLES AND CONDUITS

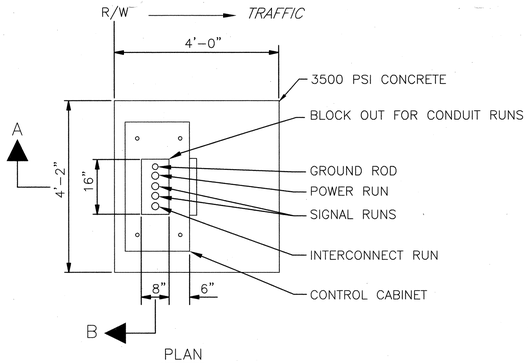
DESIGN REVIEW COMMITTEE: APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED MAY 19 2009 DESIGN REVIEW COMMITTEE
LAST DESIGN UPDATE: MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 20 OF 28

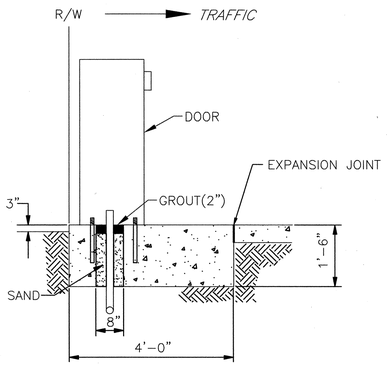
Z:\TWG_DATA\2626-Project\dgn\Construction\Signal Improvements\Sig - Improvements - Notes and Details.dgn 20. 9/8 2008 5:33:13 PM

SCANNED BY PLANNING

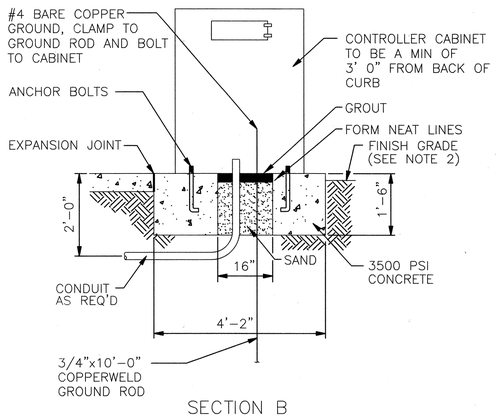
RECORD DRAWINGS



PLAN



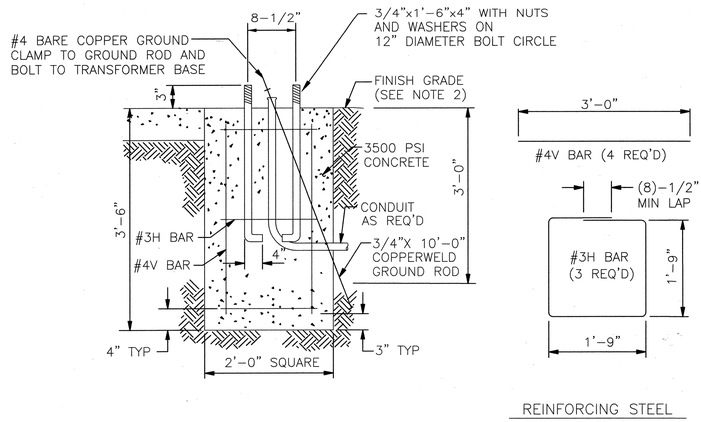
SECTION A



SECTION B

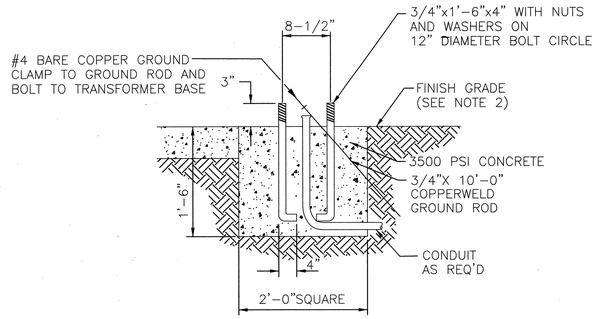
CONTROLLER FOUNDATION DETAIL

IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION, THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER.



REINFORCING STEEL

PEDESTAL FOUNDATION DETAIL



SPLICE CABINET FOUNDATION DETAIL

TRAFFIC SIGNAL FOUNDATION NOTES

1. ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4"Ox10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATION BID ITEMS.
2. FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. FOUNDATIONS MAY BE SLOPED TO MATCH SIDEWALKS. SLOPES SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS.

ESTIMATED QUANTITIES

FOUNDATION TYPE	3500 PSI CONCRETE CU YD	REINFORCING BARS POUNDS
PEDESTAL FOUNDATION	0.52	17
CONTROLLER FOUNDATION (TYPE M & P)	0.88	--
SPLICE CABINET FOUNDATION	0.13	--

(FOR CONTRACTORS INFORMATION ONLY)

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys., NMPS number 18374

Engineer's Seal & Signature

RONALD R. BOHANNAN — NEW MEXICO — 1868 — REGISTERED PROFESSIONAL ENGINEER

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 03-24
STAKED BY Cartesian Surveys Inc. DATE 05/16
INSPECTOR'S ACCEPTANCE BY TWLLC/COA DATE 05/16
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 5/24
DRAWINGS CORRECTED BY TWLLC DATE 05/16
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Dα=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: SA	DATE: 8-1-08
		DRAWN BY: BJF	DATE: 8-1-08
		DRAWING NAME: SIGNAL IMPROVEMENTS - NOTES AND DETAILS	JOB NO.: 26026
		CHECKED BY: SA	DATE: 8-1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
CONTROLLER CABINET AND PEDESTAL FOUNDATION DETAILS

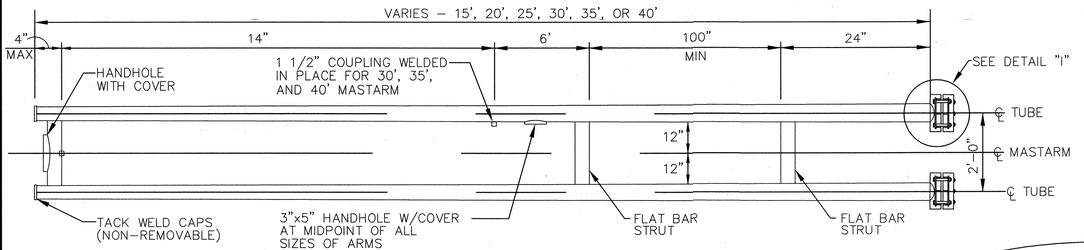
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 21 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 19 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 21 OF 28

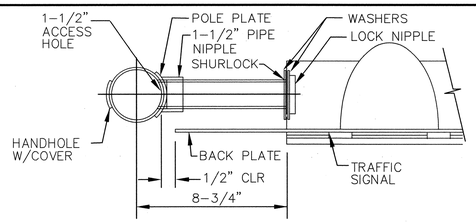
Z:\2006 Jobs\26026-Project's\Construction\Signal Improvements\Signal Improvements - Notes And Details.dwg, 9/8/2008 5:35:08 PM

SCANNED BY PLANNING

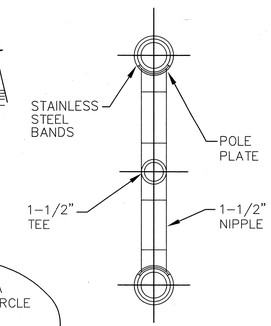
RECORD DRAWINGS



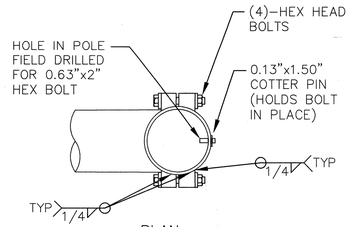
TYPICAL MASTARM DETAIL



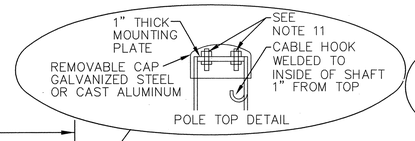
SECTION C–C



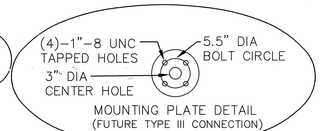
SECTION D–D



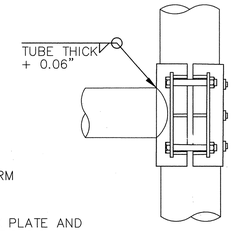
PLAN



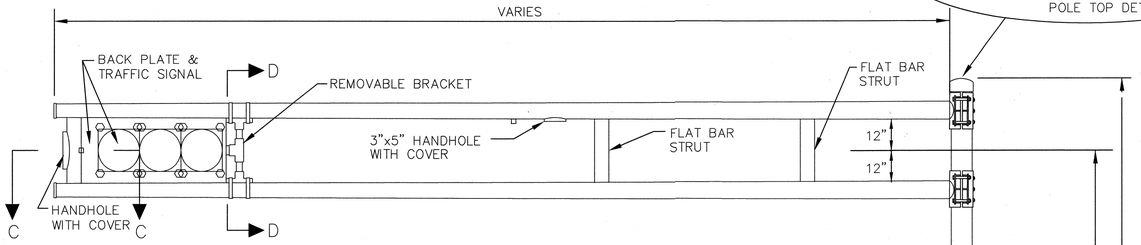
POLE TOP DETAIL



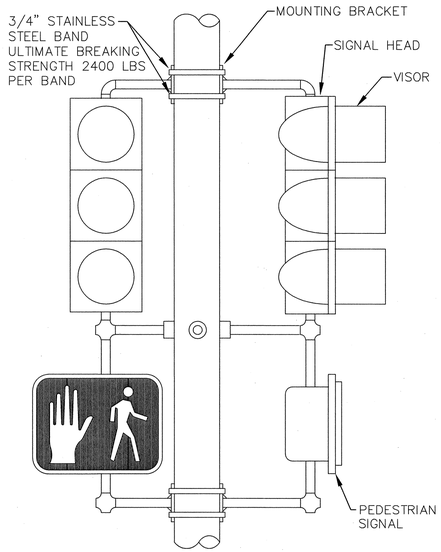
MOUNTING PLATE DETAIL (FUTURE TYPE III CONNECTION)



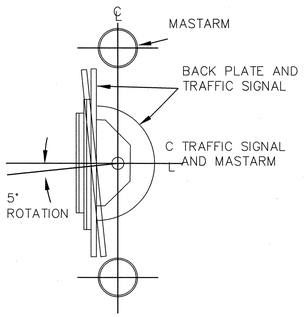
ELEVATION



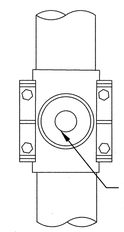
3–SECTION TRAFFIC SIGNAL



SECTION F–F



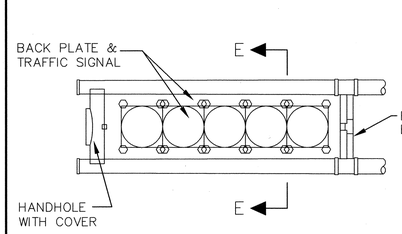
SECTION E–E



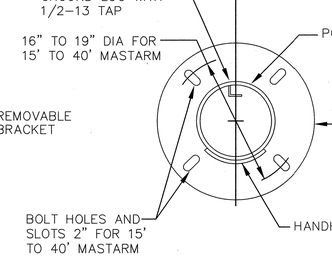
SECTION

DETAIL I

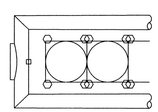
NOTE:
ONE SIZE ARM CLAMP FOR 15' TO 25' MASTARMS AND ONE SIZE FOR 30' TO 40' MASTARMS WILL BE ALLOWED



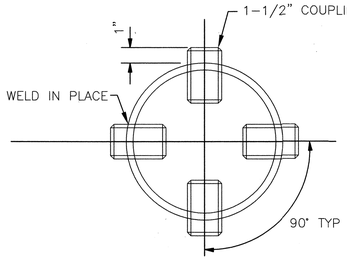
5–SECTION TRAFFIC SIGNAL



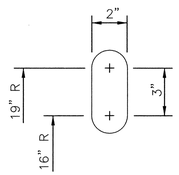
SECTION A–A



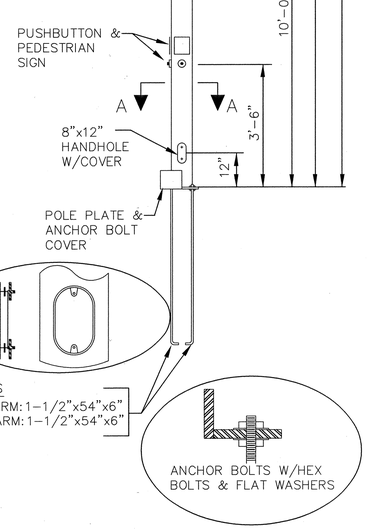
MITERED ARM END (OPTIONAL)



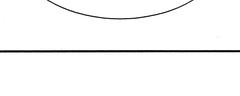
SECTION B–B



POLE PLATE SLOT DETAIL



ANCHOR BOLTS
15', 20', 25' ARM: 1-1/2"x54"x6"
30', 35', 40' ARM: 1-1/2"x54"x6"



TRAFFIC SIGNAL MASTARM NOTES:

1. DESIGN IN ACCORDANCE WITH 1985 AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS FOR AN 80 MPH WIND ZONE.
2. POLES AND MASTARMS SHAFTS SHALL CONFORM TO ASTM A–595 GRADE A (MIN YIELD 55 KSI)
3. BASE PLATE AND SIGNAL ARM CLAMP SHALL BE ASTM A–36 (MIN YIELD 36 KSI).
4. ANCHOR BOLTS SAHLL BE ASTM A–36 MOD 55 (MIN YIELD 55 KSI)
5. SIGNAL ARM CONNECTING BOLTS SHALL BE ASTM A–325.
6. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS AWS D1.1. LATEST EDITION. ALL WELDS SHALL BE FREE FROM CRACKS, EXCESSIVE UNDERCUT, AND POROSITY. ANY WELD DEFECTS SHALL BE REPAIRED BY REMOVING THE DEFECTIVE MATERIAL AND REPLACING IT WITH SOUND WELD MATERIAL.
7. ALL HOLES SHALL BE DRILLED AND DEBURRED.
8. ALL POLES, MASTARMS, AND BOLTS SHALL BE GALVANIZED TO ASTM A–123 & A–153.
9. MASTARM SHALL BE MARKED TO DESCRIBE WHICH IS TOP AND WHICH IS BOTTOM. POLE PLATE COVER SHALL BE MARKED IN MATED PAIRS. POLE SHAFTS SHALL BE MARKED "ALB" "15–25" OR "30–40", AND DATE OF FABRICATION (MOUNTH/YEAR).
10. DETAILS SHOWN ARE FOR STEEL POLES. ALUMINUM POLES MAY BE USED ONLY WHEN PRE–APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS DIVISION.
11. BOLTS FOR TYPE III EXTENSIONS SHALL BE FURNISHED BY THE MANUFACTURER FOR ALL POLES INCLUDING TYPE II STANDARDS WITH NO EXTENSIONS.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Expiration Date 12/31/2008

RONALD R. BOHANNAN 9227 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 6-4-10
SURVEYED BY Cartesian Surveys Inc. DATE
STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY TWLLC/LDA DATE 6/8/10
FIELD CHANGES By Cartesian Surveys Inc. DATE 5/10
VERIFICATION By TWLLC DATE 6/8/10
COMMENTS
CORRECTED BY TWLLC DATE 6/8/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
RONALD R. BOHANNAN 9227 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY: SA	DATE: 8-1-08
		DRAWN BY: BJF	DATE: 8-1-08
		DRAWING NAME: SIGNAL IMPROVEMENTS – NOTES AND DETAILS	JOB NO.: 26026
		CHECKED BY: SA	DATE: 8-1-08

FINISH:
☐ GALVANIZED
☐ POWDER COATED
COLOR _____

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

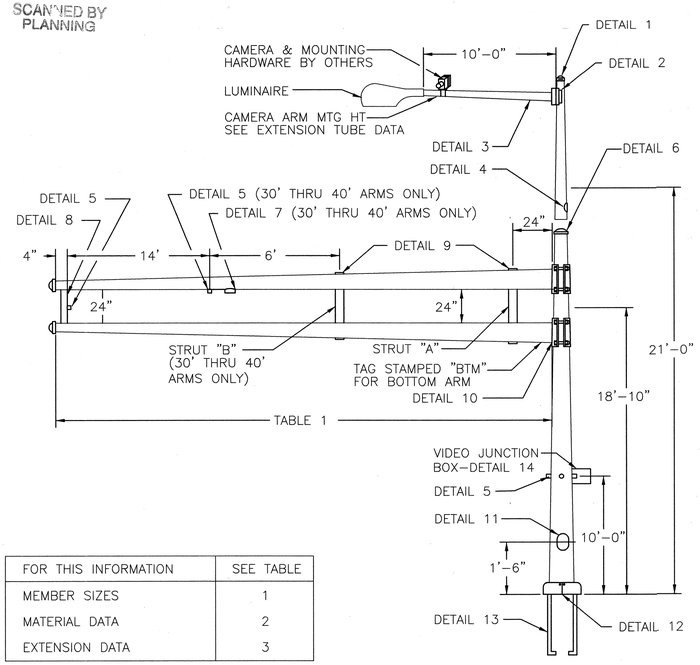
TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
MASTARM DETAILS, TYPE III STANDARD – A

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY [illegible] 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 22 OF 28

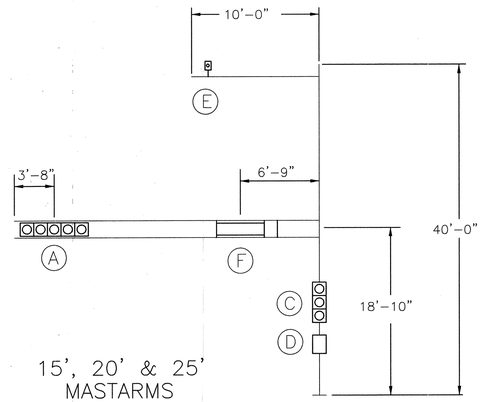
T:\2007\26026\Construction\Signal Improvements\Signal Improvements Plans And Details s...22 2/8/2008 12:13:3 PM

SCANNED BY PLANNING

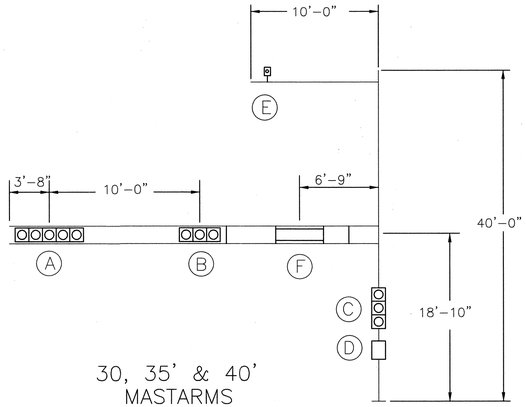


FOR THIS INFORMATION	SEE TABLE
MEMBER SIZES	1
MATERIAL DATA	2
EXTENSION DATA	3

ALBUQUERQUE, NM POLE SERIES



15', 20' & 25' MASTARMS



30, 35' & 40' MASTARMS

DEVICE	DESCRIPTION	PROJ AREA (FT^2)	WEIGHT (LBS)
(A)	12"-5 SEC. SIGNAL WITH BACK PLATE	13.33	75
(B)	12"-3 SEC. SIGNAL WITH BACK PLATE	8.67	50
(C)	DUAL 12"-3 SEC. SIGNAL WITHOUT BACK PLATES	8.20	100
(D)	DUAL PEDESTRIAN SIGNAL & VIDEO JUNCTION BOX	3.00	60
(E)	VIDEO CAMERA	1.00 EPA	35
(F)	FREE SWINGING STREET NAME -96" X 16"	3.00 EPA	35

DESIGN CRITERIA:

1985 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

WIND VELOCITY:

80 MPH ISOTACH

LOADING INFORMATION

TABLE 1: POLE AND MASTARM SCHEDULE

DESIGNATION (SEE EXAMPLE ABOVE)				POLE DATA				BASE PLATE DATA				ANCHOR BOLT DATA				MASTARM DATA				ARM ATTACHMENT DATA				
POLE SERIES	POLE TYPE	SIGNAL ARM SPAN (FT)	CAMERA MOUNTING HEIGHT 0=NO CAMERA	BASE DIA	TOP DIA	LENGTH	GA	CIRCLE "C"	THK "G"	BC RANGE BC1	BC RANGE BC2	BOLT CIRCLE	DIAMETER "K"	LENGTH "J"	HOOK "H"	FIXED END DIA	FREE END DIA	GA	LENGTH (FT)	"A"	"B"	"C"	"D"	"E"
ALB	2	15	0, 30, 35, 40	10.00"	7.06"	21'-0"	7	23.00"	1.50"	16.00"	19.00"	16.00"	1.50"	54"	6"	5.80"	3.70"	11	15	7.25"	9.44"	10.81"	10.38"	1.00"-8UNC X 8.00"
ALB	2	20	0, 30, 35, 40	10.00"	7.06"	21'-0"	7	23.00"	1.50"	16.00"	19.00"	16.00"	1.50"	54"	6"	6.50"	3.70"	11	20	7.25"	9.44"	10.81"	10.38"	1.00"-8UNC X 8.00"
ALB	2	25	0, 30, 35, 40	10.00"	7.06"	21'-0"	7	23.00"	1.50"	16.00"	19.00"	16.00"	1.50"	54"	6"	7.00"	3.50"	11	25	7.25"	9.44"	10.81"	10.38"	1.00"-8UNC X 8.00"
ALB	2	30	0, 30, 35, 40	12.00"	9.06"	21'-0"	5	23.00"	1.50"	16.00"	19.00"	16.00"	1.50"	54"	6"	7.72"	3.52"	7	30	9.25"	11.44"	13.81"	12.38"	1.00"-8UNC X 9.00"
ALB	2	35	0, 30, 35, 40	12.00"	9.06"	21'-0"	5	23.00"	1.50"	16.00"	19.00"	16.00"	1.50"	54"	6"	8.30"	3.40"	7	35	9.25"	11.44"	13.81"	12.38"	1.00"-8UNC X 9.00"
ALB	2	40	0, 30, 35, 40	12.00"	9.06"	21'-0"	5	23.00"	1.50"	16.00"	19.00"	16.00"	1.50"	54"	6"	9.00"	3.40"	7	40	9.25"	11.44"	13.81"	12.38"	1.00"-8UNC X 9.00"

TABLE 2: MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN YIELD (KSI)
POLE TUBE	A595 GR A	55	SIGNAL ARM CLAMP	A36	36
BASE PLATE	A36	36	SIGNAL ARM CONN BOLTS	A325 *	
MAST ARM TUBE	A595 GR A	55	CAMERA ARM PLATES	A36	36
CAMERA ARM TUBE	A595 GR A	55	GALVANIZING	A123 & A153	
POLE EXTENSION	A595 GR A	55			
ANCHOR BOLTS AASHTO M314 GR. 55					

* LUBRICATE IN FIELD IF NECESSARY IN LIEU OF THE REQUIREMENT IN A325

TABLE 3: EXTENSION TUBE DATA

MASTARM LENGTH (FT)	CAMERA MTG HT (FT)	EXTENSION TUBE BASE DIA	EXTENSION TUBE TOP DIA	EXTENSION TUBE LENGTH (FT)	EXTENSION TUBE GAUGE
15-20	30	7.00	5.74	9.0	11
	35	7.00	5.04	14.0	11
	40	7.00	4.34	19.0	11
30-40	30	9.00	7.74	9.0	11
	35	9.00	7.04	14.0	11
	40	9.00	6.34	19.0	11

FINISH:

☐ GALVANIZED

☐ POWDER COATED

COLOR _____

ALB - 3 - 25 - 40

- ALBUQUERQUE POLE SERIES (ALB)
- POLE TYPE
- SIGNAL ARM SPAN (15',20',25',30',35',40')
- CAMERA MOUNTING HEIGHT (0,30',35',OR 40')

DESIGNATION EXAMPLE * *

** POLE SHAFTS SHALL BE MARKED "ALB" "15-25" OR "30-40", AND DATE OF FABRICATION (MONTH/YEAR).

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys. , NMPS number 18374 .

Engineer's Seal, Signature & Date — RONALD R. BOHANNAN, NEW MEXICO, 10786, REGISTERED PROFESSIONAL ENGINEER

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 01-10
WORK STAKED BY Cartesian Surveys Inc. DATE 01-10
INSPECTOR'S NOTATIONS BY TWLLC/COA DATE 05/10
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 5/10
DRAWINGS CORRECTED BY TWLLC DATE 06/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Do=00°12'59"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL — RONALD R. BOHANNAN, NEW MEXICO, 10786, REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: SA	DATE: 8-1-08
		DRAWN BY: BJF	DATE: 8-1-08
		DRAWING NAME: SIGNAL IMPROVEMENTS - NOTES AND DETAILS	JOB NO.: 26026
		CHECKED BY: SA	DATE: 8 1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
MASTARM DETAILS - TYPE III STANDARD - B

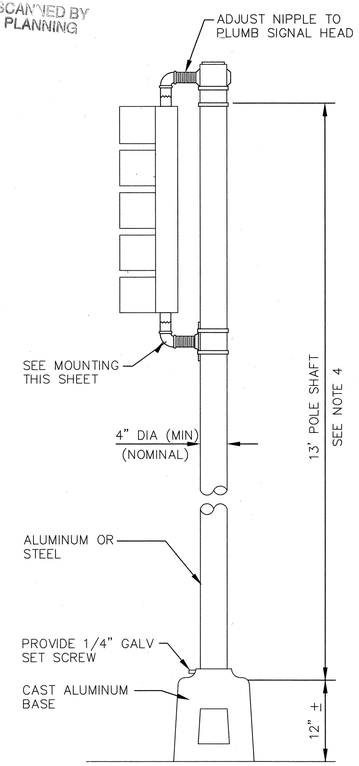
DESIGN REVIEW COMMITTEE: APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED MAY 05 2009 DESIGN REVIEW COMMITTEE
LAST DESIGN UPDATE

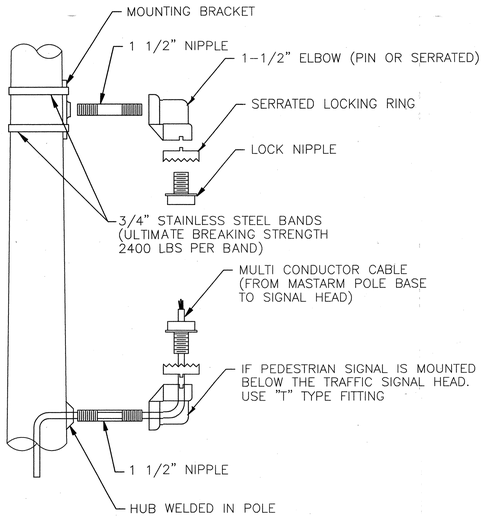
MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 23 OF 28

Z:\26026\26026\26026-Project\dgn\Construction\Signal Improvements\Signal improvements - Notes And Details.dgn, 9/8/2008 3:36:18 PM

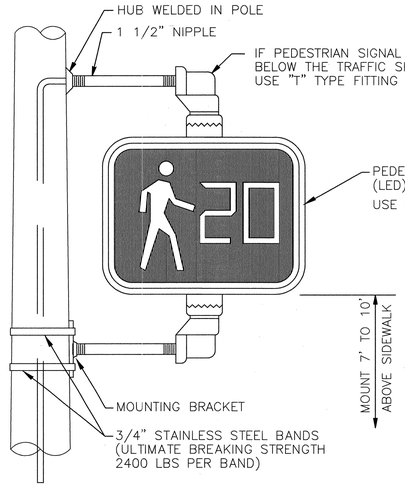
SCANNED BY PLANNING



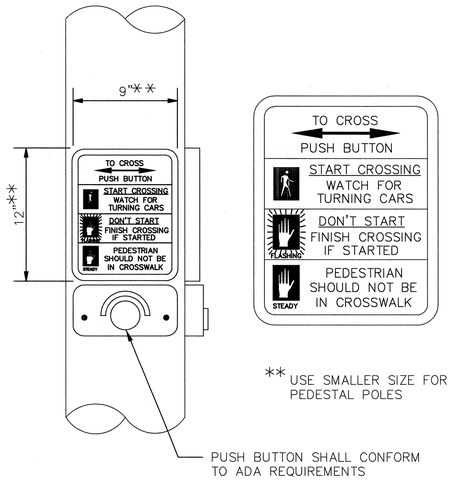


SIDE VIEW

MOUNTING DETAIL



PEDESTRIAN SIGNAL DETAILS



** USE SMALLER SIZE FOR PEDESTAL POLES

PUSH BUTTON DETAIL

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

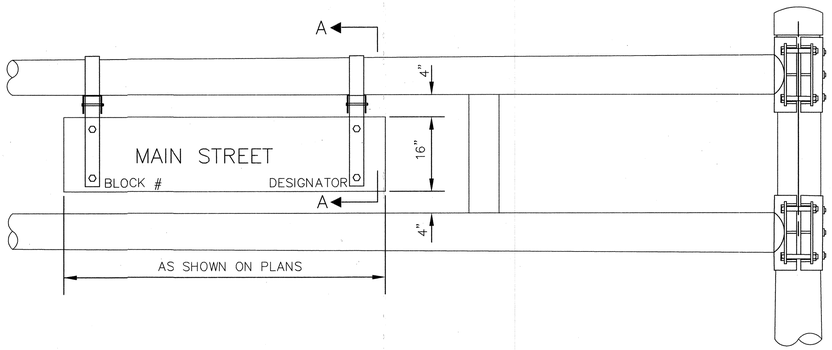
I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Professional Seal & Signature

PEDESTAL POLE DETAILS

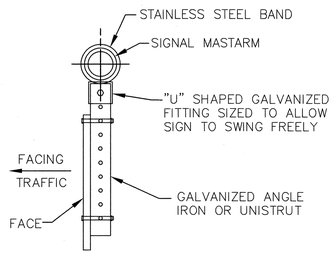
NOTES:

1. STREET NAME SIGNS REQUIRED AS SHOWN ON PLANS.
2. STREET NAME SIGN SHALL BE 16" WIDE WITH 8" SERIES "C" LETTERS. SIGN SHALL BE NO MORE THAN TO 12 SQUARE FEET TOTAL AREA AND SHALL HAVE HIGH INTENSITY REFLECTIVE LEGEND, 1" BORDER AND BACKGROUND COLORS: WHITE ON GREEN, SIGN PANELS SHALL BE SINGLE SHEET 6061-T6 ALUMINUM .120 MINIMUM THICKNESS.
3. PEDESTRIAN ACTUATED CROSSING SHALL BE A MAXIMUM OF 42" (1065 mm) ABOVE THE FINISHED PUBLIC SIDEWALK. A STABLE, FIRM, AND SLIP-RESISTANT AREA - 30"x48" (915 mm x 1220 mm) - SHALL BE PROVIDED TO ALLOW FOR A FORWARD OR A PARALLEL APPROACH TO THE CONTROLS. WHERE A PARALLEL IS PROVIDED, CONTROLS SHALL BE WITHIN 10" (255 mm) HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.
4. FOR INSTALLATIONS WITH ONLY PEDESTRIAN SIGNALS, CUT SHAFT TO 9'. USE 15' SHAFT FOR PEDESTAL POLES REQUIRING BOTH 5-SECTION SIGNAL ASSEMBLIES AND PEDESTRIAN SIGNALS.



STREET NAME SIGN DETAILS

SUBJECT TO COA TRAFFIC ENGINEER APPROVAL PRIOR TO FABRICATION.



SECTION "A-A"

FINISH:

- ☐ GALVANIZED
- ☐ POWDER COATED

COLOR _____

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 03-10
SURVEYED BY Cartesian Surveys Inc. DATE 03-10
STAKED BY TWLLC/COA DATE 05/10
INSPECTOR'S ACCEPTANCE BY TWLLC/COA DATE 05/10
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 5/10
DRAWING CORRECTED BY TWLLC DATE 05/10

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN		
	DESIGNED BY: SA	DATE: 8-1-08	
	DRAWN BY: BJF	DATE: 8-1-08	
	DRAWING NAME: SIGNAL IMPROVEMENTS - NOTES AND DETAILS	JOB NO.: 26026	
	CHECKED BY: SA	DATE: 8-1-08	

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

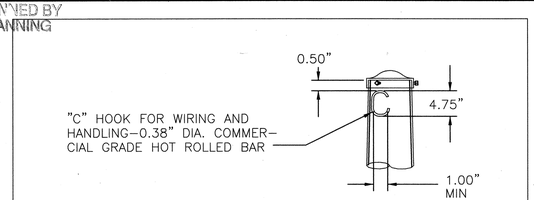
TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
MISCELLANEOUS DETAILS A - TYPE III STANDARD

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED DESIGN REVIEW COMMITTEE			

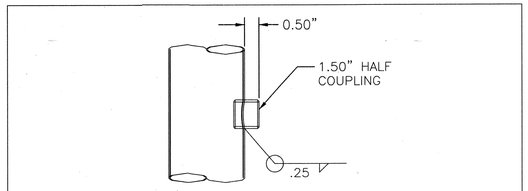
CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 24 OF 27

Z:\2026\2626-Project\Dwg\Construction\Signal Improvements\Signal Improvements - Notes And Details.dwg, 24, 8/8/2008 5:39:23 PM

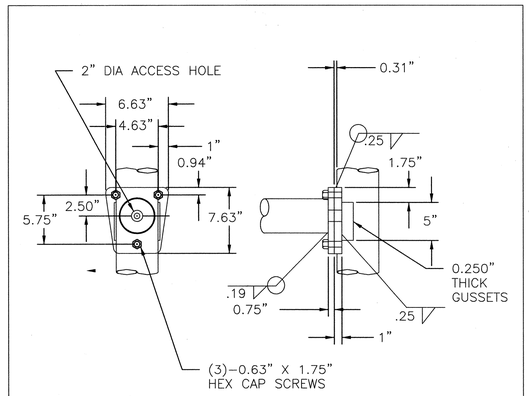
SCANNED BY PLANNING



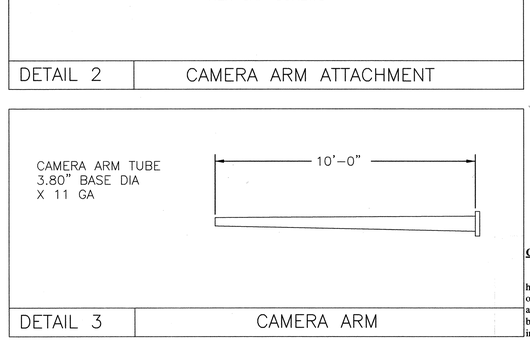
DETAIL 1 | POLE TOP



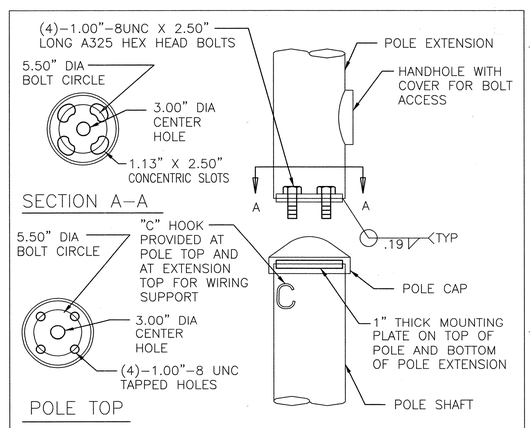
DETAIL 5 | POLE COUPLING



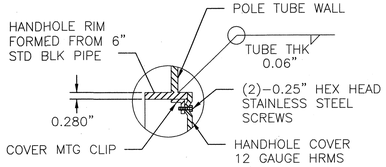
DETAIL 2 | CAMERA ARM ATTACHMENT



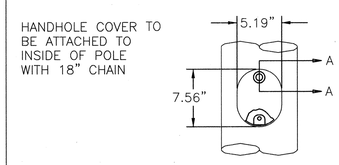
DETAIL 3 | CAMERA ARM



DETAIL 4 | POLE EXTENSION CONNECTION



SECTION A–A



DETAIL 6 | EXTENSION HANDHOLE

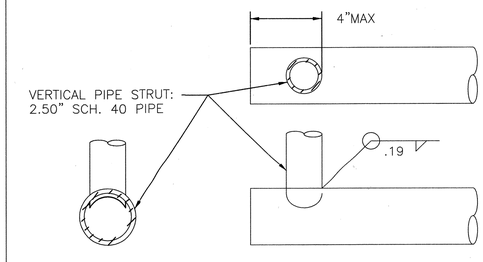
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys, NMPS number 18374 .

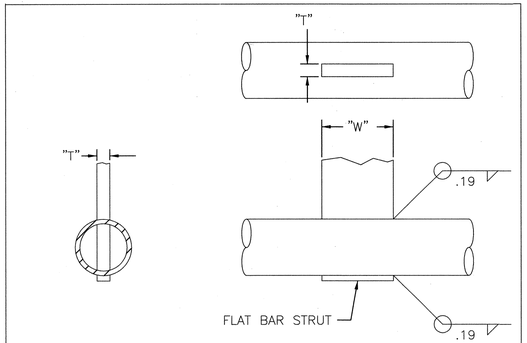
SEE DETAIL 6

Engineer's Seal & Signature

DETAIL 7 | HANDHOLE

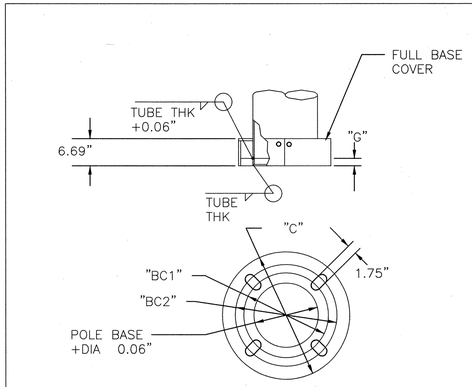


DETAIL 8 | END PIPE STRUT

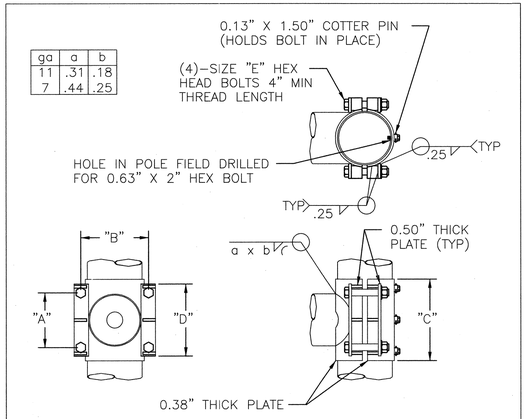


STRUT	ARM SPAN 15' THRU 25' "W" X "T"	ARM SPAN 30' THRU 40' "W" X "T"
A	5" X 0.50"	7" X 0.50"
B	———	5" X 0.50"

DETAIL 9 | MID BAR STRUT

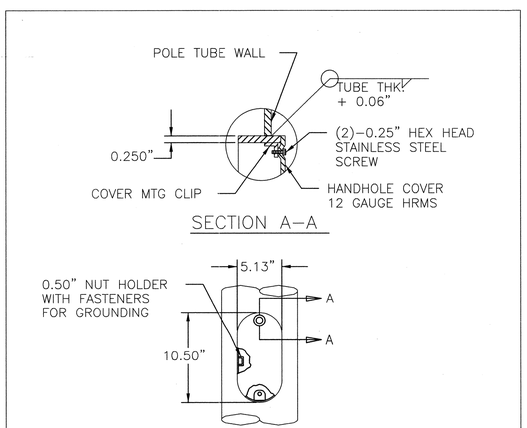


DETAIL 12 | POLE BASE



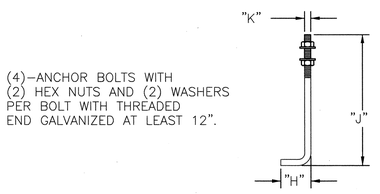
qa	a	b
11	.31	.18
7	.44	.25

DETAIL 10 | SIGNAL ARM ATTACHMENT

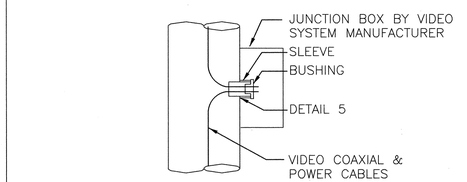


SECTION A–A

DETAIL 11 | HANDHOLE



DETAIL 13 | ANCHOR BOLT



DETAIL 14 | VIDEO JUNCTION BOX

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving
WORK STAKED BY Cartesian Surveys Inc. DATE 03-20
INSPECTOR'S ACCEPTANCE BY TWLLC / COA DATE 05/10
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 7/10
DRAWINGS CORRECTED BY TWLLC DATE 05/10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
RONALD R. BOHANNAN NEW MEXICO 9868 REGISTERED PROFESSIONAL ENGINEER
10-10-19

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
		DESIGNED BY: SA — DATE: 8-1-08
		DRAWN BY: BJF — DATE: 8-1-08
		DRAWING NAME: SIGNAL IMPROVEMENTS – NOTES AND DETAILS — JOB NO.: 26026
		CHECKED BY: SA — DATE: 8-1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
MISCELLANEOUS DETAILS B – TYPE III STANDARD

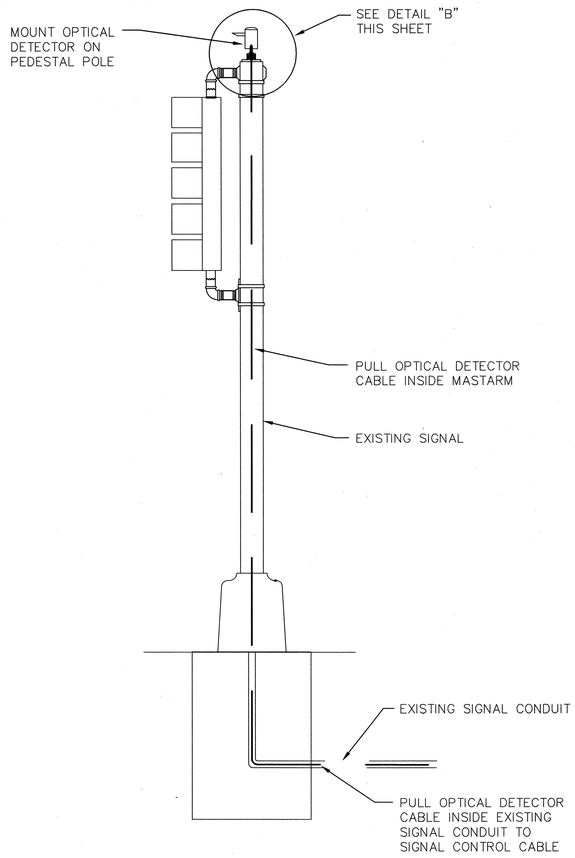
DESIGN REVIEW COMMITTEE: APPROVED OCT 3 1 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED MAY 06 2019 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 25 OF 28

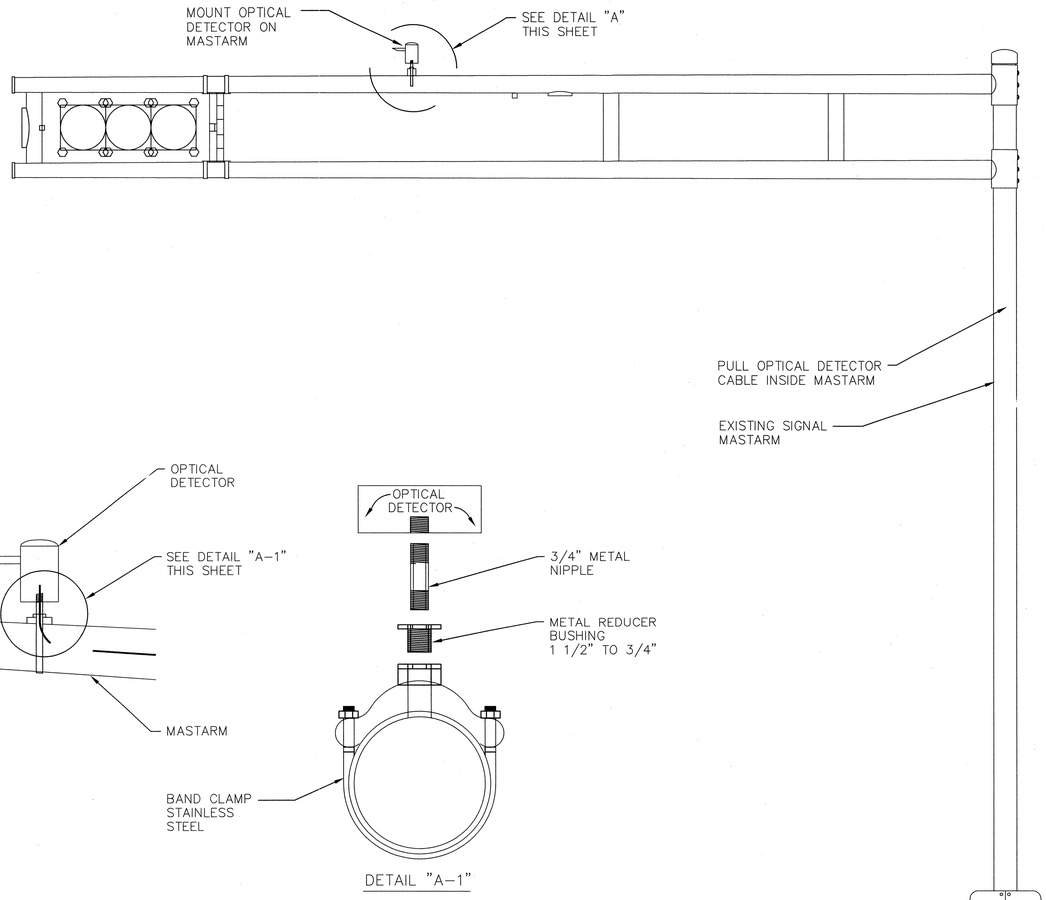
Z:\2026\26026\2626-Project\dgn\Construction\Signal Improvements\Signal Improvements - Notes And Details.dgn, 9/8/2008 5:39:08 PM

SCANNED BY PLANNING



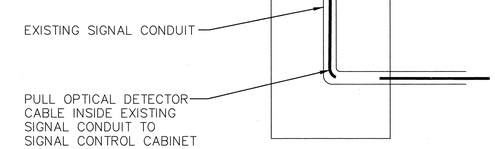
TYPICAL OPTICAL DETECTOR INSTALLATION – PEDESTAL POLE

NOTE: OPTICAL DETECTOR SHALL ONLY BE MOUNTED ON PEDESTAL POLES WHEN THERE IS NO MASTARM.

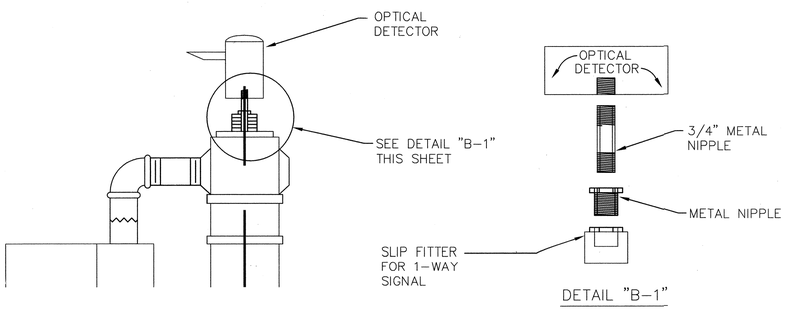


DETAIL "A–1"

OPTICAL DETECTOR MOUNTING – DETAIL "A"



TYPICAL OPTICAL DETECTOR INSTALLATION – MASTARM



DETAIL "B–1"

OPTICAL DETECTOR MOUNTING – DETAIL "B"

NOTES:

1. ALL OPTICAL DETECTOR MOUNTING HARDWARE SHALL CONFORM TO OPTICAL DETECTOR MANUFACTURER'S REQUIREMENTS.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Engineer's Seal & Signature — RONALD R. BOHANNAN — NEW MEXICO — 7868 — REGISTERED PROFESSIONAL ENGINEER — AUGUST 2001

AS BUILT INFORMATION

CONTRACTOR: Franklin Earthmoving — DATE: 12-1-20
WORK STAKED BY: Cartesian Surveys Inc. — DATE: 12-1-20
INSPECTOR'S ACCEPTANCE: BY: TWLLC/COA — DATE: 05/10
FIELD VERIFICATION: BY: Cartesian Surveys Inc. — DATE: 5/20
DRAWINGS CORRECTED: BY: TWLLC — DATE: 05/10

MICRO-FILM INFORMATION

RECORDED BY: — DATE:
NO.:

BENCH MARKS

1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Dα=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL — RONALD R. BOHANNAN — NEW MEXICO — 7868 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: SA	DATE: 8-1-08
		DRAWN BY: BJF	DATE: 8-1-08
		DRAWING NAME: SIGNAL IMPROVEMENTS – NOTES AND DETAILS	JOB NO.: 26026
		CHECKED BY: SA	DATE: 8-1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

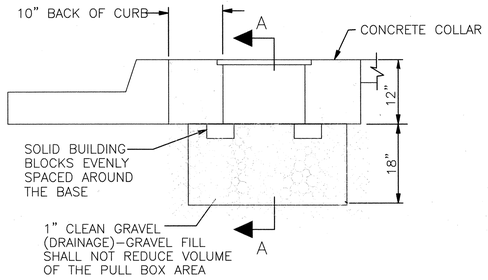
TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
OPTICAL DETECTOR INSTALLATION DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 18 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 26 OF 28

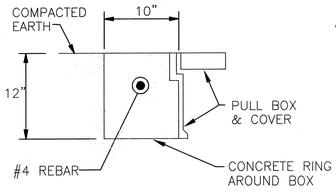
Z:\2006\26126\2626-Project\dwg\Construction\Signal improvements\Signal improvements - Notes and Details.dgn 12/8/2008 3:39:17 PM

SCANNED BY PLANNING

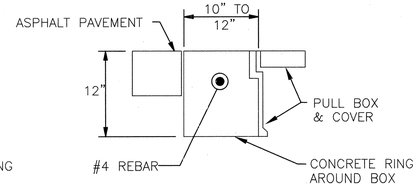


TYPICAL PULL BOX INSTALLATION

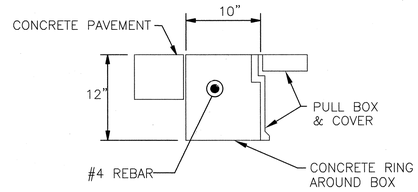
NOTE: SEE "CONCRETE COLLAR DETAIL"



IN COMPACTED EARTH



IN ASPHALT PAVEMENTS



IN CONCRETE PAVEMENTS

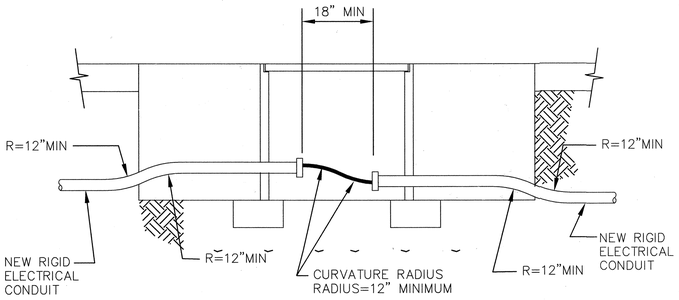
CONCRETE COLLAR DETAILS

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEMS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

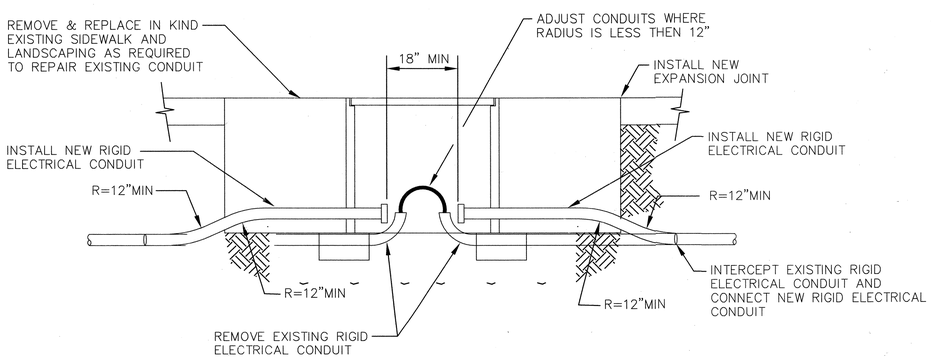
I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez , of Cartesian Surveys, NMPS number 18374 .

Engineer's Seal & Signature



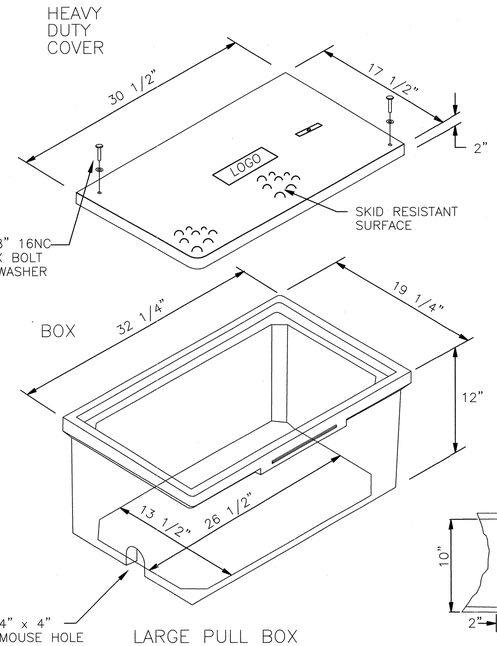
TRAFFIC SIGNAL PULL BOX (TYPICAL)

NEW CONDUIT INSTALLATION



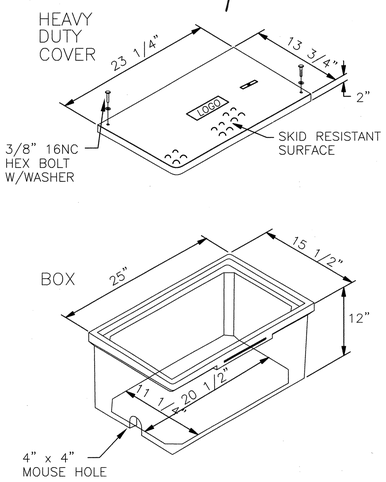
TRAFFIC SIGNAL PULL BOX (TYPICAL)

RETROFIT INSTALLATION



LARGE PULL BOX

PULL BOX DETAILS



STANDARD PULL BOX

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH – 11,000 PSI, TENSILE STRENGTH – 1,700 PSI, FLEXURAL STRENGTH – 7,500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS OVER 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
5. ELECTRICAL PULL BOX (STANDARD) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13 3/4" x 23 1/4" x 2".

ENGINEER'S SEAL

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.999967080
Da=00°12'39"
Elev=5079.46 (NGVD29)

AS BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 10-3-08
WORK STAKED BY Cartesian Surveys Inc. DATE 05-10
INSPECTOR'S ACCEPTANCE BY TWLLC/CDA DATE 05-10
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 5-6
DRAWING CORRECTED BY TWLLC DATE 05-10
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

NO.	DATE	REMARKS	DESIGNED BY: SA	DATE: 8-1-08
		REVISIONS	DRAWN BY: BJF	DATE: 8-1-08
			DRAWING NAME: SIGNAL IMPROVEMENTS – NOTES AND DETAILS	JOB NO.: 26026
			CHECKED BY: SA	DATE: 8-1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
PULL BOX DETAILS

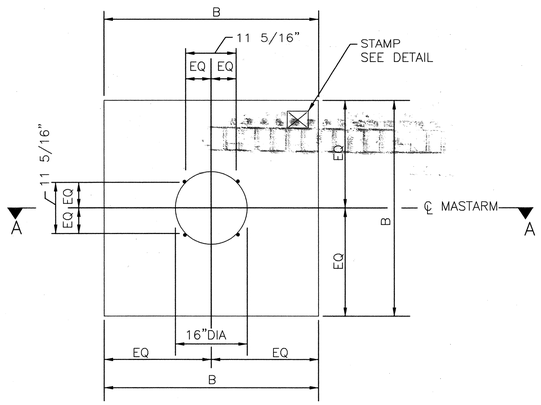
DESIGN REVIEW COMMITTEE: APPROVED 3 3 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED MAY 06 2009 DESIGN REVIEW COMMITTEE

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. 551483
ZONE MAP NO. G-16-Z
SHEET 27 OF 28

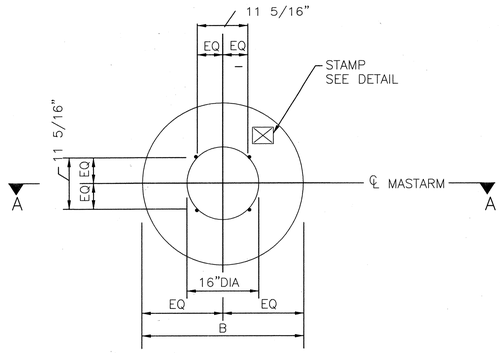
Z:\2026\26.2626-Project\dgn\Construction\Signal improvements\Sheets and Details.dgn, 17 - 9/8/2008 3:36:58 PM

SCANNED BY PLANNING



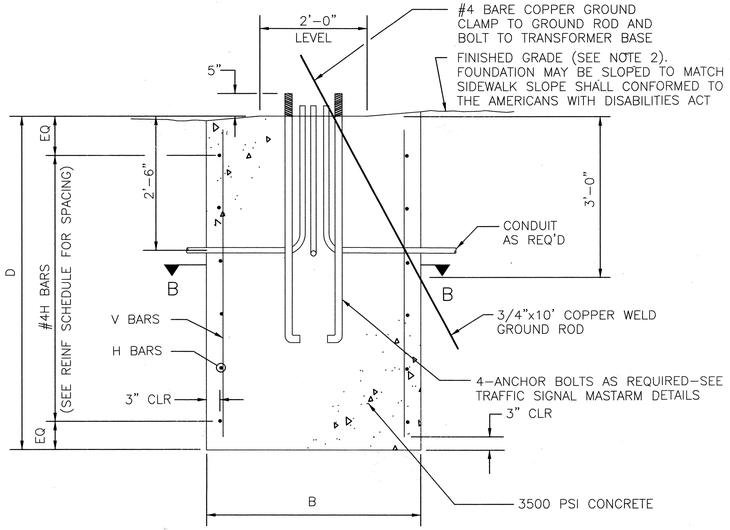
PLAN VIEW (SQUARE)

NO SCALE



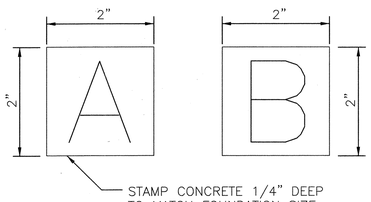
PLAN VIEW (ROUND)

NO SCALE



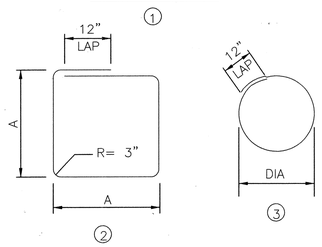
SECTION A-A (ROUND OR SQUARE)

NO SCALE

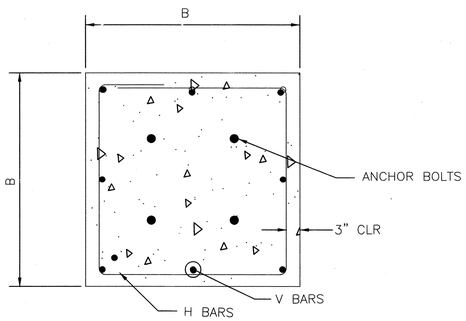


STAMP DETAIL

NO SCALE

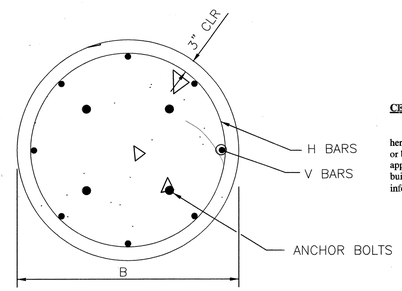


BAR BENDING DIAGRAM



SECTION B-B (SQUARE)

NO SCALE



SECTION B-B (ROUND)

NO SCALE

FOUNDATION DIMENSIONS AND QUANTITIES

FOUNDATION TYPE	SIGNAL ARM SPAN(FT)	DIMENSION B (WIDTH)	DIMENSION D (DEPTH)	REINFORCING V BARS MARK	REINFORCING H BARS MARK	REBAR POUNDS	3500 PSI CONCRETE CUBIC YARDS	NOTES
TYPE A (SQUARE)	15 20 25	3'-6" " "	5'-0" " "	#4V2 " "	#3H2 " "	49.1 •	2.27 " "	
TYPE B (SQUARE)	30 35 40	4'-0" " "	6'-3" " "	#5V1 " "	#3H1 " "	82.6	3.70 " "	
TYPE A (ROUND)	15 20 25	2'-6" " "	8'-6" " "	#6V4 " "	#3H4 " "	98.1	1.55 " "	ROUND SHAPE TO BE USED ONLY WHERE SPECIFICALLY NOTED ON PLANS OR WHEN APPROVED BY THE PROJECT MANAGER.
TYPE B (ROUND)	30 35 40	3'-0" " "	11'-9" " "	#7V3 " "	#3H3 " "	179.7	3.08 " "	

REINFORCING SCHEDULE (GRADE 60 BARS)

MARK	QUANT	TYPE	SIZE	LENGTH	COMMENTS
#5V1	8	1	5	5'-9"	
#4V2	8	1	4	4'-6"	
#7V3	6	1	7	11'-3"	
#6V4	6	1	6	8'-0"	
#3H1	6	2	3	15'-4"	A = 42",TIES AT 14" OC
#3H2	5	2	3	13'-4"	A = 36",TIES AT 12" OC
#3H3	12	3	3	9'-3"	DIA = 30",TIES AT 12" OC
#3H4	9	3	3	7'-8"	DIA = 24",TIES AT 12" OC

TRAFFIC SIGNAL MASTARM FOUNDATION NOTES

1. REFER TO THE PLANS FOR LOCATIONS OF TRAFFIC SIGNAL MASTARM FOUNDATIONS.
2. FINISHED GRADE FOR THE FOUNDATIONS SHALL BE ESTABLISHED IN THE FIELD BY THE PROJECT MANAGER.
3. THE FOUNDATIONS SHOWN HERE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT REVISION.
4. CONCRETE SHALL BE 3500 PSI FOR EXTERIOR STRUCTURES. REFER TO TABLE 101.C OF THE SPECIFICATIONS.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60.
6. THE TOP 6 INCHES OF THE FOUNDATION PEDESTAL SHALL BE FORMED TO THE DIMENSIONS SHOWN ON THIS SHEET TO FORM NEAT LINES. CONCRETE BELOW 6 LINES MAY BE CAST AGAINST THE EARTH.
7. THE CONCRETE SHALL GAIN 80% OF THE DESIGN STRENGTH PRIOR TO INSTALLING THE TRAFFIC SIGNAL MASTARM.
8. ALL FOUNDATIONS SHALL INCLUDE COPPER WELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4" DIA X 10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATIONS BID ITEMS.
9. ALL FOUNDATIONS SHALL BE STAMPED EITHER "A" OR "B" TO SHOW TYPE CONSTRUCTED (SEE STAMP DETAIL).

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannan, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Brian J. Martinez, of Cartesian Surveys., NMPS number 18374.

Engineer's Seal & Signature

RONALD R. BOHANNAN NEW MEXICO 10868 REGISTERED PROFESSIONAL ENGINEER

AS BUILT INFORMATION
CONTRACTOR: Franklin's Earthmoving DATE: 5-7-10
SURVEYED BY: Cartesian Surveys Inc.
STAKED BY: Cartesian Surveys Inc. DATE 05/10
INSPECTION'S ACCEPTANCE BY: TWLLC/COA DATE 05/10
FIELD VERIFICATION BY: Cartesian Surveys Inc. DATE 5/6
LINE/GRADE CORRECTED BY: TWLLC DATE 05/10
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
1-25-20
CENTRAL STATION DATA
NM STATE PLANE COORDINATES
CENTRAL ZONE (NAD 27)
X=390,403.88
Y=1,502,304.95
G-G=0.99967080
Do=00°12'39"
Elev=5079.46 (NGVD29)

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
CERTIFICATE NUMBER 10868 REGISTERED PROFESSIONAL ENGINEER RONALD R. BOHANNAN NEW MEXICO

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: SA	DATE: 8-1-08
		DRAWN BY: BJF	DATE: 8-1-08
		DRAWING NAME: SIGNAL IMPROVEMENTS - NOTES AND DETAILS	JOB NO.: 26026
		CHECKED BY: SA	DATE: 8-1-08

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **CARPENTERS CENTER**
TRAFFIC SIGNAL IMPROVEMENTS
FOUNDATION DETAILS, TYPE II AND TYPE III STANDARD

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 31 2008 DESIGN REVIEW COMMITTEE	APPROVED MAY 08 2009 DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 554483 | ZONE MAP NO. G-16-Z | SHEET 28 OF 28

C:\Documents and Settings\rbohannan\Desktop\26026 Project\8 Construction Signal Improvements\Signal Improvements - Notes + Details.dwg, 8/1/2008 1:39:47 PM, rbohannan