RECORD DRAWINGS

CONSTRUCTION PLANS FOR

OFFSITE PUBLIC INFRASTRUCTURE UNSER CROSSING

ALBUQUERQUE, NEW MEXICO

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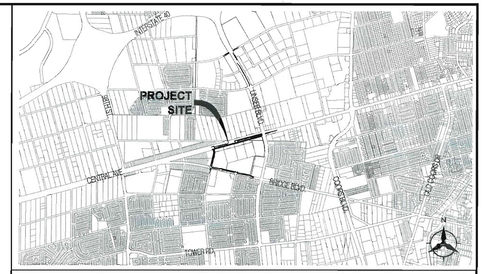
(Sheet 14-29 Base Bid)



VICINITY MAP: NOT TO SCALE ZONE MAP NO. K-9 K-10

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE No. 7, INCLUDING AMENDMENT NO. 1.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT, TO THE CONSTRUCTION COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. ALL WORK EFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET.
8. 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 REPLACING 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.
9. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. CONTRACTOR SHALL COORDINATE WITH THE ABCWUA WATER SYSTEMS DIVISION (857-8200) SEVEN WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY WATER PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN(7) DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [X] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [X] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [X] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- [X] SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- [X] IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- [X] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- [X] THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

NOTICE TO CONTRACTORS CONTINUED

12. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNAGE UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.
13. DEVELOPER SHALL PROVIDE AND MAINTAIN ALL SIGNING AND STRIPING WITHIN PRIVATE STREETS / DEVELOPMENT.
14. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P
15. ALL UTILITIES THAT ARE LOCATED UNDER ANY ROADWAY OR FUTURE ROADWAY SHALL BE BACKFILLED TO 95% COMPACTION FOR THE ENTIRE DEPTH OF THE TRENCH. THIS INCLUDES ALL SANITARY SEWER LINES, WATER LINES, STORM DRAIN LINES, DRY UTILITY SLEEVES AND TRAFFIC SIGNAL / STREET LIGHT CONDUITS.

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.

BRIAN J. MARTINEZ, NMPS 18374 8/13/09

BRIAN J. MARTINEZ NEW MEXICO 18374 PROFESSIONAL SURVEYOR

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE
YOLANDA PADILLA MORA NEW MEXICO 16035 REGISTERED PROFESSIONAL ENGINEER 10-28-08	DRC Chairman	D Woodall	10/30/08
	Transportation		10-28-08
	Water/Wastewater		10-30-08
	Hydrology		10-28-08
	CIP		
	Const. Mngmt.		
	Const. Coord.		
	AMAFCA		

APPROVED FOR CONSTRUCTION

City Engineer 10-31-08 Date

Bohannan Huston

courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING SPATIAL DATA ADVANCED TECHNOLOGIES

DRB CASE NUMBER	CITY PROJECT NO.	SHEET	OF
1007204	735684	1	29

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RECORD DRAWINGS

Introduction:

The purpose of the control listed below is to serve as a spatial reference for the project located at the southwest corner of Central Av and Unser Blvd. The intended accuracy is 0.10' horizontal and 0.10' vertical. Geographic coordinates and ellipsoid height were obtained from a primary point BH 08-289-01 using an autonomous GPS position which is accurate within 30 meters. All other points are relative to this position.

Project Control Statistics:

Units:	US Survey Foot
Horizontal Datum:	NAD83
Vertical Datum:	NAVD88
Projection:	Transverse Mercator
State Plane and/or UTM Zone:	New Mexico Central Zone (3002)
Basis of Bearing:	Grid Bearings
Project Combined Factor:	0.999682780 from 14_K9
Modification Method Used:	Scaled State Plane coordinates about origin (0,0) no truncation
Field Methodology:	RTK observations, Trimble site calibration to Primary control
Equipment Used:	Trimble GPS Equipment (4700, 5700, 5800 Dual Frequency Receivers)
Control Set Date:	February 28, 2008
Observation Date:	November 21, 2007 and February 28, 2008
Adjustment/Publication Date:	November 29, 2007

Primary Control Used:

Point	Latitude	Longitude	Ellipsoid	Elevation	Northing	Easting	Description
7_K9	35°04'29.85"N	106°43'56.94"W	5068.99	5140.08	1483375.28	1496536.47	AGRS
10_L9	35°04'22.21"N	106°44'33.24"W	5136.03	5207.17	1482617.47	1493514.59	AGRS
REWARD	35°05'13.72"N	106°44'55.82"W	5248.71	5319.69	1487836.03	1491664.01	AGRS
3_K10	35°04'59.14"N	106°42'38.11"W	5023.51	5094.52	1486305.81	1503103.98	AGRS
7_K10	35°04'38.24"N	106°43'22.09"W	5026.78	5097.85	1484209.99	1499438.30	AGRS
7_L10	35°04'18.50"N	106°43'22.92"W	5016.94	5088.07	1482213.55	1499359.43	AGRS
14_K9	35°04'24.42"N	106°43'49.20"W	5046.93	5118.02	1482823.11	1497177.83	AGRS

Adjusted Coordinate Listing:

Point	Latitude	Longitude	Ellipsoid	Elevation	Northing	Easting	Description
BH 08-289-01	35°04'30.32"N	106°43'32.15"W	5030.39	5101.48	1483412.20	1498598.66	Aluminum Cap
BH 08-289-02	35°04'32.00"N	106°43'47.03"W	5054.10	5125.19	1483588.63	1497362.02	Aluminum Cap
BH-08289-03	35°04'35.04"N	106°43'33.63"W	5034.73	5105.78	1483891.06	1498477.20	Aluminum Cap
BH 08289-04	35°04'39.74"N	106°43'17.94"W	5024.07	5095.13	1484360.11	1499783.84	Aluminum Cap
BH 08289-05	35°04'18.32"N	106°43'17.08"W	5012.45	5083.56	1482192.90	1499845.23	PK Nail
BH 08289-06	35°04'21.59"N	106°43'51.87"W	5051.06	5122.17	1482537.46	1496953.95	PK Nail
BH 08289-07	35°04'34.80"N	106°43'54.22"W	5062.71	5133.79	1483874.61	1496765.46	PK Nail

Geospatial Positional Accuracy Report:

Point	Horizontal Positional Accuracy	Vertical Positional Accuracy
BH 08-289-01	0.066'	0.023'
BH 08-289-02	0.068'	0.037'
BH-08289-03	0.069'	0.038'
BH 08289-04	0.068'	0.039'
BH 08289-05	0.069'	0.038'
BH 08289-06	0.069'	0.043'
BH 08289-07	0.068'	0.040'

Note: The method for establishing horizontal positions for established control points does not meet the criteria for horizontal positional accuracy classification according to the Geometric Geodetic Accuracy Standards and Specifications for Using GPS Relative Positioning Techniques, August 1, 1989. The estimated Network Horizontal RMS is 0.10' survey feet.

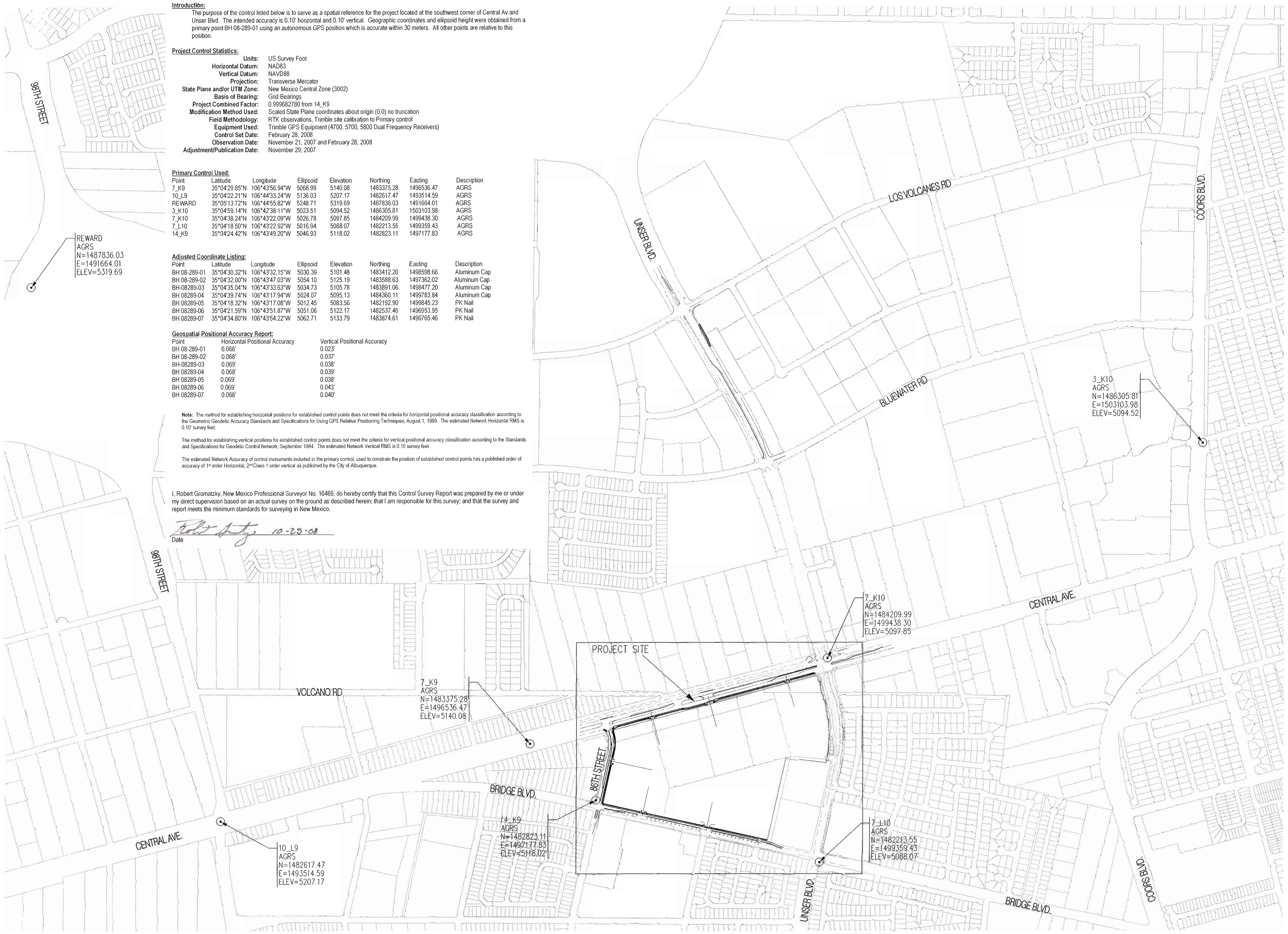
The method for establishing vertical positions for established control points does not meet the criteria for vertical positional accuracy classification according to the Standards and Specifications for Geodetic Control Network, September 1984. The estimated Network Vertical RMS is 0.10 survey feet.

The estimated Network Accuracy of control monuments included in the primary control, used to constrain the position of established control points has a published order of accuracy of 1st order Horizontal, 2nd Class 1 order vertical as published by the City of Albuquerque.

I, Robert Gromatzky, New Mexico Professional Surveyor No. 16469, do hereby certify that this Control Survey Report was prepared by me or under my direct supervision based on an actual survey on the ground as described herein; that I am responsible for this survey; and that the survey and report meets the minimum standards for surveying in New Mexico.

10-29-08

Date



AS-BUILT INFORMATION	
CONTRACTOR Franklin's Earthmoving	DATE 9/09
WORK STAKED BY Cartesian Surveys Inc.	DATE 01-09
INSPECTOR'S ACCEPTANCE BY COA	DATE 08/09
FIELD VERIFICATION BY Cartesian Surveys	DATE 8/09
DRAWINGS CORRECTED BY Franklin's / Cartesian	DATE 09/09

MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	DATE

BENCH MARKS

ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

ROBERT GROMATZKY NEW MEXICO 16469 LICENSED PROFESSIONAL SURVEYOR

REVISIONS			
NO.	DATE	REMARKS	BY

DESIGN		
DESIGNED BY	YPM / BCP	DATE 08/2008
DRAWN BY	ARR / SAR	DATE 08/2008
CHECKED BY	YPM	DATE 08/2008

Bohannan Huston INC.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING SPATIAL DATA ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING

SURVEY CONTROL SHEET / OVERALL SITE PLAN

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	2	29

BHI JOB NO. 090147

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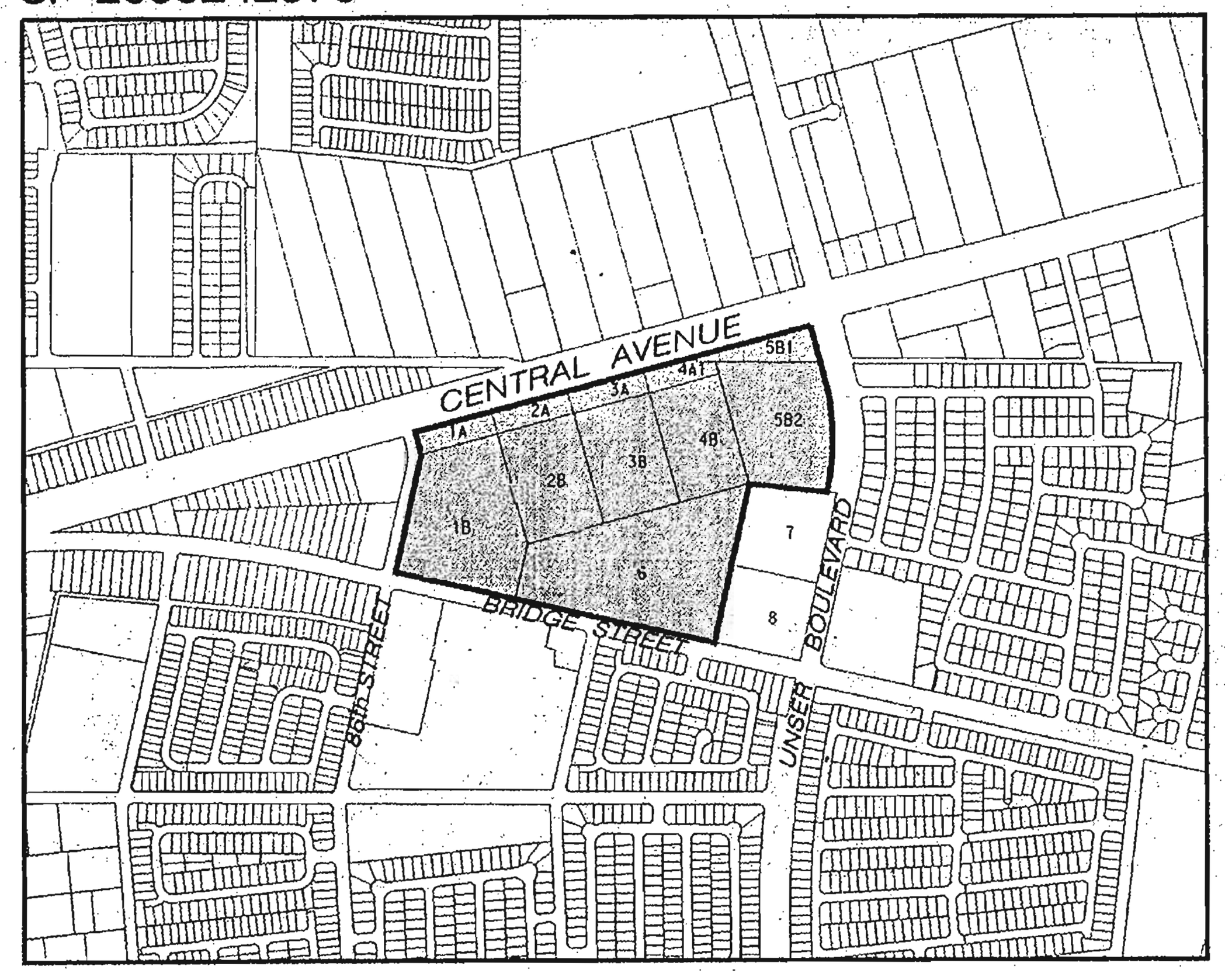

LOCATION MAP

ZONE ATLAS INDEX MAP Nos. K9 & K10

NOT TO SCALE

SUBDIVISION DATA

1. DRB No.
2. Zone Atlas Index Nos. K-9 and K-10
3. Zoning: C-2 & SU-1.
3. Gross Subdivision Acreage: 50.6833 Acres.
4. Total number of tracts Created: Fourteen (14) Tracts.
5. Total Area of dedicated public street right-of-way: 0.3042 acre.
6. Date of Survey: June, 2008.
7. Plat is located within the Town of Atrisco Grant in projected Sections 21 & 22, Township 10 North, Range 2 East, NMPM, City of Albuquerque, Bernalillo County, New Mexico.

DISCLOSURE STATEMENT

The purpose of this Plat is to subdivide Tracts One-A (1-A), One-B (1-B), Two-A (2-A), Two-B (2-B), Three-A (3-A), Three-B (3-B), Four-B (4-B) and Six (6) of V.E. Barrett Subdivision, as the same is shown and designated on the plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico, on February 13, 1967, in Book C6, Page 161 together with all of Tracts Four-A-1 (4-A-1), Five-B-1 (5-B-1), and Five-B-2 (5-B-2), Lands of Wefco, Partners, as the same are shown and designated on the plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico on April 6, 1987, in Book C-33 into fourteen (14) new tracts, to vacate easements, to dedicate public street right-of-way to the City of Albuquerque, and to grant easements.

PUBLIC UTILITY EASEMENTS

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

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

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

C. QWEST for the installation, maintenance, and service of all buried communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.

D. Comcast Cable for the installation, maintenance, and service of such underground 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, (above ground 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 Electric Safety Code caused 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.

DESCRIPTION

A certain tract of land situate within the Town of Atrisco Grant in projected Sections 21 and 22, Township 10 North, Range 2 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico being and comprising all of Tracts One-A (1-A), One-B (1-B), Two-A (2-A), Two-B (2-B), Three-A (3-A), Three-B (3-B), Four-B (4-B) and Six (6) of V.E. Barrett Subdivision, as the same is shown and designated on the plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico, on February 13, 1967, in Book C6, Page 161 together with all of Tracts Four-A-1 (4-A-1), Five-B-1 (5-B-1), and Five-B-2 (5-B-2), Lands of Wefco, Partners, as the same are shown and designated on the plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico on April 6, 1987, in Book C-33, Page 81.

Tract contains 50.6833 acres of land, more or less.

NOTES

1. Bearings are New Mexico State Plane Grid Bearings (Central Zone) NAD 1983 and the Basis of Bearings is the inverse between Albuquerque Control Monuments "7-K10" and "14-K9" Bearing = S58°28'10"W.
2. Record Bearings and distances are shown in parenthesis.
3. Distances are ground distances.
4. All easements of record are as shown on the Plat of record or made known to me by the owner, utility companies, or other interested parties.
5. All interior tract corners to be monumented by a #5 rebar and yellow plastic survey cap stamped "GROMATZKY PS 16469".
6. All streets are public, to be dedicated to the City of Albuquerque with the filing of this plat.
7. Pursuant to section 14-14-4-7 of the City of Albuquerque Code of Ordinances, "No property within the area of this Plat shall at anytime be subject to a deed restriction, covenant, or binding agreement prohibiting solar collectors from being installed on buildings or erected on the lots or parcels within the area of the proposed plat. The foregoing requirements shall be a condition to approval of this plat."
8. Reciprocal cross access easements for the benefit of Tracts 1 through 14, are granted by separate Easements, Convents, Conditions and Restrictions ("ECC&Rs") recorded concurrently herewith to be maintained by the owners of those Tracts as provided in the ECC&Rs.
9. Reciprocal storm water drainage easements for the benefit of Tracts 1 through 14 are granted by the ECC&Rs to be maintained by the owners of those Tracts as provided in the ECC&Rs.
10. Tracts 1 thru 14 are subject to covenants and restrictions in the ECC&Rs.
11. This grant of easement is for the benefit of the owners, tenants, employees and invitees of Tract 7 and 8, V.E. Barrett Subdivision for the sole purpose of vehicular access. Grantees' exercise of this easement shall not unreasonably interfere with business operations on the grantor's property. Grantees shall indemnify the grantor against claims arising from use of this easement. Grantees shall reimburse an equitable share of the reasonable costs of maintaining such vehicular access upon invoice from the party performing such maintenance and insuring such vehicular access. Grantees shall obtain general commercial liability insurance covering use of this easement with limits reasonably acceptable to grantors naming grantors as additional insureds.

SUBORDINATION CLAUSE:

The Undersigned Subordinates it's interest in the herein - described Real Property to the Right and Interests of The City of Albuquerque in The Real Property and all interest herein dedicated to The City of Albuquerque.

LIENHOLDER

In witness thereof, The Huntington National Bank, [redacted] has caused these presents to be

Executed this 25th day July AD 2008

BY: [signature] JOHN CLINGAN

AS: VICE PRESIDENT - COMMERCIAL LENDING

Commonwealth ~~STATE~~ of: Pennsylvania, COUNTY OF Allegheny

The foregoing instrument was acknowledged before me this 25th day of July 2008,

THE HUNTINGTON NATIONAL BANK, [redacted]

BY: [signature]

BY: JOHN CLINGAN

AS: VICE PRESIDENT - COMMERCIAL LENDING

Witness My Hand and Official Seal

Judith L. White
Notary Public

Notary Address City of Pittsburgh Allegheny County My Commission Expires: 4-15-2010

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Judith L. White, Notary Public
City Of Pittsburgh, Allegheny County
My Commission Expires Apr. 15, 2010
Member, Pennsylvania Association of Notaries

SURVEYOR'S CERTIFICATION

I, Robert Gromatzky, a registered Professional New Mexico Surveyor, certify that I am responsible for this survey and that this plat was prepared by me or under my supervision, shows all easements as shown on the plat of record, or made known to me by the owner, utility companies, or other interested parties and conforms to the Minimum Requirements of the Board of Registration for Professional Engineers and Professional Surveyors and meets the minimum requirements for monumentation and surveys contained in the City of Albuquerque Subdivision Ordinance, and is true and accurate to the best of my knowledge and belief.

[signature]
Robert Gromatzky
New Mexico Professional Surveyor 16469

Date: 7-24-08

ROBERT GROMATZKY NEW MEXICO 16469 LICENSED PROFESSIONAL SURVEYOR

FREE CONSENT AND DEDICATION

This plat of that certain tract of land situate within the Town of Atrisco Grant in projected Sections 21 & 22, Township 10 North, Range 2 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico being and comprising all of Tracts One-A (1-A), One-B (1-B), Two-A (2-A), Two-B (2-B), Three-A (3-A), Three-B (3-B), Four-B (4-B) and Six (6) of V.E. Barrett Subdivision, as the same is shown and designated on the plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico, on February 13, 1967, in Book C6, Page 161 together with all of Tracts Four-A-1 (4-A-1), Five-B-1 (5-B-1), and Five-B-2 (5-B-2), Lands of Wefco, Partners, as the same are shown and designated on the plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico on April 6, 1987, in Book C-33, Page 81, records of Bernalillo County, New Mexico, now comprising Tracts 1 thru 14, Unser Crossings is with the free consent and in accordance with the desires of the undersigned owner(s) and/or proprietor(s) thereof. Said owner(s) and/or proprietor(s) do hereby dedicate additional public right-of-way for 86th Street SW as shown hereon to the City of Albuquerque in fee simple with warranty covenants and do hereby grant to the City All Access, Utility and Drainage Easements shown hereon as granted to the City including the right to construct, operate, inspect, and maintain facilities therein; and to the providers of public utilities all Public Utility Easements shown hereon for the common and joint use of Gas, Electrical Power, and Communication Services for buried distribution lines, conduits, and pipes for underground utilities where shown or indicated, including the right of ingress and egress for construction and maintenance, and the right to trim interfering trees and shrubs. The City has the right to enter upon the easement property at any time and perform whatever inspection, installation, maintenance, repair, modification or removal ("Work") it deems appropriate without liability to the City. If the Work effects any improvements or encroachments by the grantor, their assigns or heirs, the City will not be financially or otherwise responsible for rebuilding or repairing of improvements or encroachments. If in the opinion of the City, the Work to be performed by the City could endanger the structural integrity or otherwise damage the improvements or encroachments, the grantor, their assigns or heirs, shall, at its own expense, take whatever protective measures are required to safeguard the improvements or encroachments. This plat shows all easements, lots, and tracts, as shown on the plat of record, or made known to me by either the owner, utility companies, commitment for title insurance, or other interested parties. All lots, tracts, and easements comprising the platted real property shall be known by the names and identifications made on this plat. All public utility easements, drainage easements, pedestrian access easements, vehicular non-access easements, and water and sewer line easements depicted on this plat are non-exclusive and are granted to the providing utility company or the City of Albuquerque, as applicable, for the specific purpose described on this plat. By recordation of this plat, all easements, restrictions, lots, and tracts which were created by any previously recorded plat or subdivision map which comprised or affected the real property subdivided by this plat shall be deemed vacated and abandoned unless otherwise noted on tis plat. Said owner warrants that he holds complete and indefeasible title in fee simple to the land subdivided. Said owner(s) and/orproprietor(s) do hereby consent to all of the foregoing and do hereby certify that this subdivision is their free act and deed.

ARMSTRONG CENTRAL UNSER BLVD, LLC, a New Mexico Limited Liability Company

By: Armstrong Development Investments, LLC, a Delaware Limited Liability Company

By: Armstrong Development Holdings, Inc., a Delaware corporation, its sole member

BY: [signature]
Robert W. FRISCH
Title VICE PRESIDENT

~~State of New Mexico~~) Commonwealth of Pennsylvania
SS
~~County of Bernalillo~~) COUNTY of Allegheny

This instrument was acknowledged before me on 25th day of July 2008, by ROBERT W. FRISCH, VICE PRESIDENT managing member of Armstrong Central Unser, LLC, a New Mexico limited liability company.

My Commission Expires: 4-15-2010 Judith L. White
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Judith L. White, Notary Public
City Of Pittsburgh, Allegheny County
My Commission Expires Apr. 15, 2010
Member, Pennsylvania Association of Notaries

SANDIA PLAZA PARTNERS, LLC, a New mexico Limited Liability Company

By: TRACI J. WOLF

~~BY:~~ [signature]
Title MANAGING MEMBER

State of New Mexico)
SS
County of Bernalillo)

This instrument was acknowledged before me on 20th day of JULY 2008, by Traci J. Wolf of Sandia Plaza Partners, LLC a New Mexico limited liability company.

My Commission Expires: 11-8-2010 [signature]
Notary Public

NOTARY PUBLIC STATE OF NEW MEXICO

JURISDICTIONAL AFFIDAVIT

I, Robert Gromatzky, a registered Professional New Mexico Surveyor, hereby affirm that the property described does lie within the platting and subdivision jurisdiction of the City of Albuquerque.

[signature]
Robert Gromatzky
New Mexico Professional Surveyor 16469

Date: 7-24-08

PLAT OF
UNSER CROSSINGS

(A REPLAT OF TRACTS 1A, 1B, 2A, 2B, 3A, 3B, 4B & TRACT 6 V.E. BARRETT SUBDIVISION AND TRACTS 4-A-1, 5-B-1 & 5-B-2 LANDS OF WEFCO, PARTNERS)

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JULY, 2008

PROJECT NUMBER ______

APPLICATION NUMBER ______

PLAT APPROVAL

UTILITY APPROVALS:

[signature] QWEST TELECOMMUNICATIONS	8/1/08 DATE
COMCAST CABLE	DATE
PNM ELECTRIC SERVICES	DATE
PNM GAS SERVICES	DATE

CITY APPROVALS:

[signature] CITY SURVEYOR	7-29-08 DATE
TRAFFIC ENGINEERING, TRANSPORTATION DIVISION	DATE
ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY	DATE
PARKS & RECREATION DEPARTMENT	DATE
A.M.A.F.C.A.	DATE
CITY ENGINEER	DATE
DRB CHAIRPERSON, PLANNING DEPARTMENT	DATE
REAL PROPERTY DIVISION	DATE

TAX CERTIFICATION

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON UPC #

______

PROPERTY OWNER OF RECORD ______

...LLO COUNTY TREASURER'S OFFICE DATE

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.

SHEET 1 OF 7

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

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PLAT OF
UNSER CROSSINGS

(A REPLAT OF TRACTS 1A, 1B, 2A, 2B, 3A, 3B, 4B & TRACT 6 V.E. BARRETT SUBDIVISION AND TRACTS 4-A-1, 5-B-1 & 5-B-2 LANDS OF WEFCO, PARTNERS)

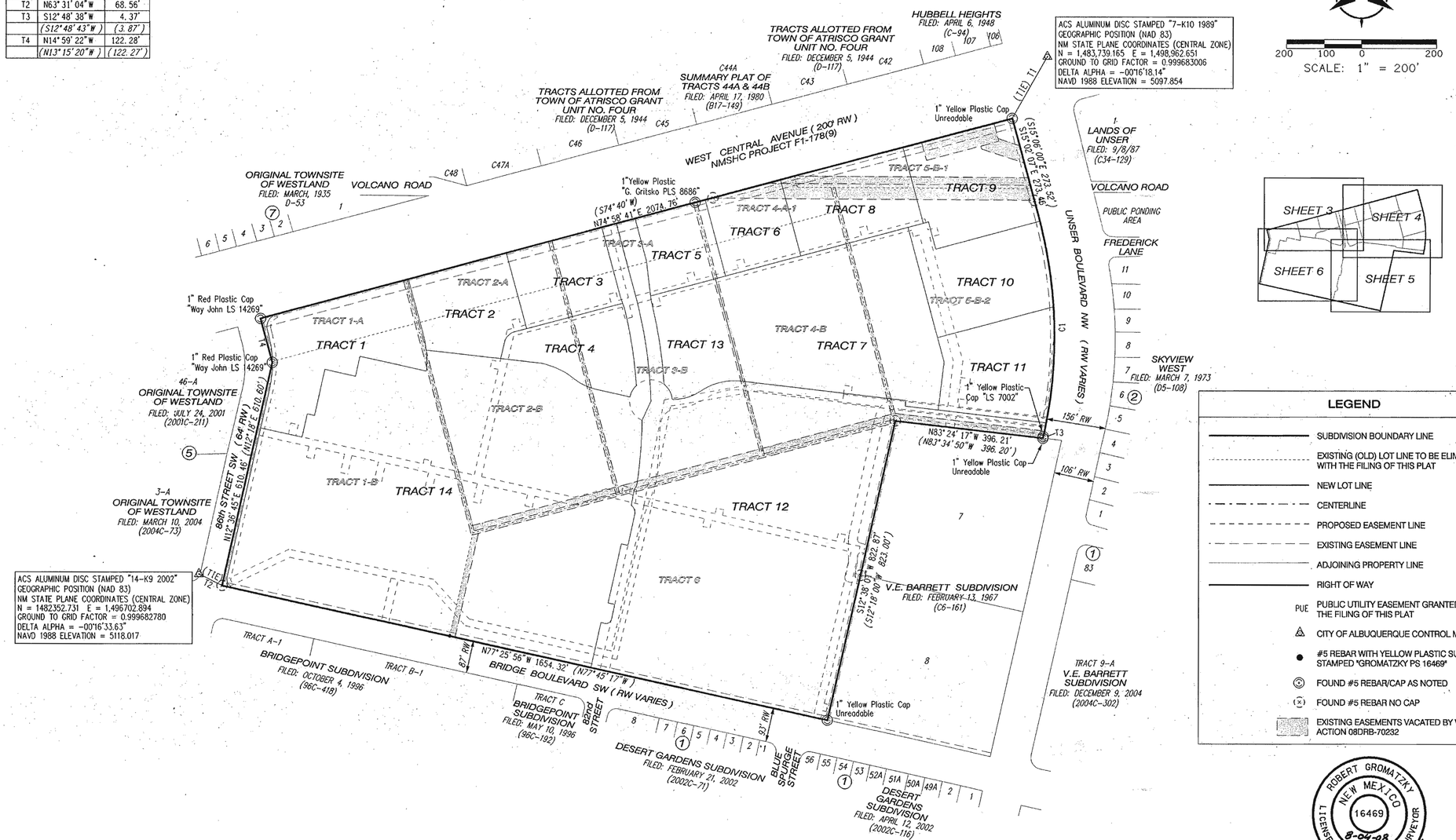
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JULY, 2008

NOTE: SEE SHEETS 3 THRU 7 FOR SUBDIVISION DETAILS

Curve Data						
ID	DELTA	TANGENT	ARC	RADIUS	CHORD	CHORD BRG
C1	27°34'44"	301.66'	591.62'	1229.11'	585.92'	S01°14'45"E
	(27°34'45")	*(301.72')*	*(591.75')*	*(1229.36')*	*(586.05')*	

TABLES ARE FOR THIS SHEET ONLY

Tangent Data		
ID	BEARING	DISTANCE
T1	N29°25'55"E	190.37'
T2	N63°31'04"W	68.56'
T3	S12°48'38"W	4.37'
	(S12°48'43"W)	*(3.87')*
T4	N14°59'22"W	122.28'
	(N13°15'20"W)	*(122.27')*



LEGEND

- SUBDIVISION BOUNDARY LINE
- EXISTING (OLD) LOT LINE TO BE ELIMINATED WITH THE FILING OF THIS PLAT
- NEW LOT LINE
- CENTERLINE
- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- ADJOINING PROPERTY LINE
- RIGHT OF WAY
- PUE — PUBLIC UTILITY EASEMENT GRANTED WITH THE FILING OF THIS PLAT
- CITY OF ALBUQUERQUE CONTROL MONUMENT
- #5 REBAR WITH YELLOW PLASTIC SURVEY CAP STAMPED "GROMATZKY PS 16469"
- FOUND #5 REBAR/CAP AS NOTED
- FOUND #5 REBAR NO CAP
- EXISTING EASEMENTS VACATED BY VACATION ACTION 08DRB-70232

ROBERT GROMATZKY NEW MEXICO 16469 8-04-08 LICENSED PROFESSIONAL SURVEYOR

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

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PLAT OF
UNSER CROSSINGS

(A REPLAT OF TRACTS 1A, 1B, 2A, 2B, 3A, 3B, 4B & TRACT 6 V.E. BARRETT SUBDIVISION AND TRACTS 4-A-1, 5-B-1 & 5-B-2 LANDS OF WEFCO, PARTNERS)

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JULY, 2008

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NOTE: SEE SHEET 7 FOR CURVE & TANGENT DATA

SHEET 3 | SHEET 4 | SHEET 6 | SHEET 5

N

60 30 0 60
SCALE: 1" = 60'

ROBERT GROMATZKY — NEW MEXICO — 16469 — 8-4-08 — LICENSED PROFESSIONAL SURVEYOR

VOLCANO ROAD

ORIGINAL TOWNSITE OF WESTLAND
FILED: MARCH, 1935
D-53

WEST CENTRAL AVENUE (200' RW)
NMSHC PROJECT F1-178(9)

1"Yellow Plastic "G. Gritsko PLS 8686"

TRACT 1
2.2617 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 2
1.4272 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 3
1.2688 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 4
1.2185 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 5
0.9458 Acre
(SEE NOTE 8 & 9, SHEET 1)

TRACT 6
1.0007 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 13
1.2220 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 14
16.2112 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 1A | TRACT 2A | TRACT 2B | TRACT 3A | TRACT 3B

TRACT 12 — 13.1000 Acres (SEE NOTE 8 & 9, SHEET 1)

0.1432 Ac Additional Public Street Right-of-way for 86th Street SW Dedicated to City of Albuquerque With The Filing of This Plat

EXISTING 25' PNM EASEMENT FILED: SEPTEMBER 5, 2002 (BK A41, PG 1629)

EXISTING EASEMENT FOR ELECTRIC POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161)

EXISTING EASEMENT FOR ELECTRIC POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161). EASEMENT TO REMAIN

EXISTING EASEMENT FOR ELECTRIC, POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161) VACATED BY VACATION ACTION 08DRB-70232

CENTERLINE 20' PUBLIC WATERLINE EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

CENTERLINE 20' PUBLIC SANITARY SEWER EASEMENT GRANTED TO THE CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

PRIVATE ACCESS EASEMENT GRANTED WITH THE FILING OF THIS PLAT (SEE NOTE 11, SHEET 1)

SHEET 3 OF 7

Bohannan Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING △ SPATIAL DATA △ ADVANCED TECHNOLOGIES

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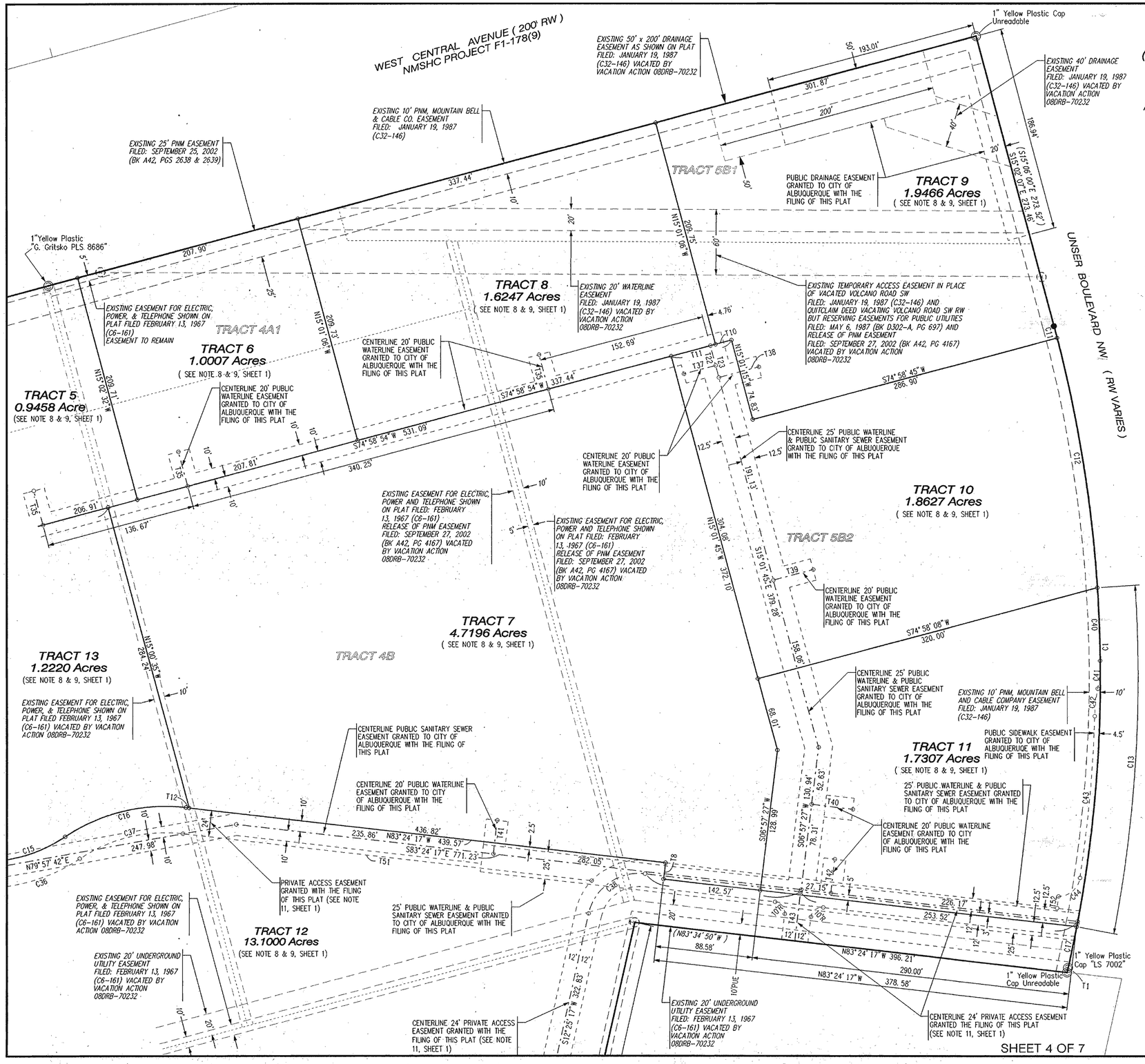
RECORD DRAWINGS

PLAT OF
UNSER CROSSINGS

(A REPLAT OF TRACTS 1A, 1B, 2A, 2B, 3A, 3B, 4B & TRACT 6 V.E. BARRETT SUBDIVISION AND TRACTS 4-A-1, 5-B-1 & 5-B-2 LANDS OF WEFCO, PARTNERS)

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JULY, 2008



LEGEND

- SUBDIVISION BOUNDARY LINE
- EXISTING (OLD) LOT LINE TO BE ELIMINATED WITH THE FILING OF THIS PLAT
- NEW LOT LINE
- CENTERLINE
- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- ADJOINING PROPERTY LINE
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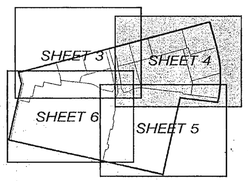
- FOUND #5 REBAR NO CAP

NOTE: SEE SHEET 7 FOR CURVE & TANGENT DATA



ROBERT GROMATZKY
NEW MEXICO
16469
8-04-08
LICENSED PROFESSIONAL LAND SURVEYOR

Bohannan ▲ Huston

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

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RECORD DRAWINGS

PLAT OF
UNSER CROSSINGS

(A REPLAT OF TRACTS 1A, 1B, 2A, 2B, 3A, 3B, 4B & TRACT 6 V.E. BARRETT SUBDIVISION AND TRACTS 4-A-1, 5-B-1 & 5-B-2 LANDS OF WEFCO, PARTNERS)

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JULY, 2008

TRACT 13
1.2220 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 7
4.7196 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 14
16.2112 Acres

TRACT 12
13.1000 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 6

V.E. BARRETT SUBDIVISION
FILED: FEBRUARY 13, 1967
(C6-161)

BRIDGE BOULEVARD SW (RW VARIES)

82nd STREET

CENTERLINE 20' PUBLIC WATERLINE EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

PRIVATE ACCESS EASEMENT GRANTED WITH THE FILING OF THIS PLAT (SEE NOTE 11, SHEET 1)

EXISTING EASEMENT FOR ELECTRIC POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161) VACATED BY VACATION ACTION 08DRB-70232

CENTERLINE 20' PUBLIC SANITARY SEWER EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

25' PUBLIC WATERLINE & PUBLIC SANITARY SEWER EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

EXISTING 20' UNDERGROUND UTILITY EASEMENT FILED: FEBRUARY 13, 1967 (C6-161) VACATED BY VACATION ACTION 08DRB-70232

EXISTING EASEMENT FOR ELECTRIC, POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161) VACATED BY VACATION ACTION 08DRB-70232

CENTERLINE 24' PRIVATE ACCESS EASEMENT GRANTED WITH THE FILING OF THIS PLAT (SEE NOTE 11, SHEET 1)

CENTERLINE 20' PUBLIC SANITARY SEWER EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

EXISTING EASEMENT FOR ELECTRIC POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161) EASEMENT TO REMAIN

EXISTING EASEMENT (TYPICAL) FOR ELECTRIC, POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161)

1" Yellow Plastic Cap "LS 7002"

1" Yellow Plastic Cap Unreadable

CENTERLINE 24' PRIVATE ACCESS EASEMENT GRANTED THE FILING OF THIS PLAT (SEE NOTE 11, SHEET 1)

CENTERLINE 20' PUBLIC WATERLINF EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

LEGEND

- SUBDIVISION BOUNDARY LINE
- EXISTING (OLD) LOT LINE TO BE ELIMINATED WITH THE FILING OF THIS PLAT
- NEW LOT LINE
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- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- ADJOINING PROPERTY LINE
- RIGHT OF WAY
- PUE — PUBLIC UTILITY EASEMENT GRANTED WITH THE FILING OF THIS PLAT
- CITY OF ALBUQUERQUE CONTROL MONUMENT
- #5 REBAR WITH YELLOW PLASTIC SURVEY CAP STAMPED "GROMATZKY PS 16469"
- FOUND #5 REBAR/CAP AS NOTED
- FOUND #5 REBAR NO CAP

NOTE: SEE SHEET 7 FOR CURVE & TANGENT DATA

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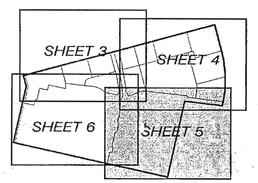
SCALE: 1" = 60'



ROBERT GROMATZKY
NEW MEXICO
16469
8-04-08
LICENSED PROFESSIONAL SURVEYOR

Bohannan Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING SPATIAL DATA ADVANCED TECHNOLOGIES

SHEET 5 OF 7

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RECORD DRAWINGS

PLAT OF
UNSER CROSSINGS

(A REPLAT OF TRACTS 1A, 1B, 2A, 2B, 3A, 3B, 4B & TRACT 6 V.E. BARRETT SUBDIVISION AND TRACTS 4-A-1, 5-B-1 & 5-B-2 LANDS OF WEFCO, PARTNERS)

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JULY, 2008

NOTE: SEE SHEET 7 FOR CURVE & TANGENT DATA

TRACT 1A

TRACT 1
2.2617 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 2
1.4272 Acres
(SEE NOTE 8, SHEET 1)

TRACT 4
1.2185 Acres
(SEE NOTE 8, SHEET 1)

TRACT 13
1.2220 Acres
(SEE NOTE 8, SHEET 1)

TRACT 2B

TRACT 1B

TRACT 14
16.2112 Acres
(SEE NOTE 8 & 9, SHEET 1)

TRACT 12
13.1000 Acres
(SEE NOTE 8, SHEET 1)

1" Red Plastic Cap "Way John LS 14269"

1" Red Plastic Cap "Way John LS 14269"

86th STREET SW (64' RW)

BRIDGE BOULEVARD SW (RW VARIES)

BRIDGEPOINT SUBDIVISION
FILED: OCTOBER 4, 1996
(96C-418)

TRACT A-1

TRACT B-1

EXISTING EASEMENT FOR ELECTRIC POWER & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161)

EXISTING EASEMENT FOR ELECTRIC, POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161) VACATED BY VACATION ACTION 08DRB-70232

CENTERLINE 20' PUBLIC WATERLINE EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

CENTERLINE 20' PUBLIC SANITARY SEWER EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

PRIVATE ACCESS EASEMENT GRANTED WITH THE FILING OF THIS PLAT (SEE NOTE 11, SHEET 1)

EXISTING 20' UNDERGROUND UTILITY EASEMENT FILED: FEBRUARY 13, 1967 (C6-161) VACATED BY VACATION ACTION 08DRB-70232

EXISTING EASEMENT FOR ELECTRIC POWER, & TELEPHONE SHOWN ON PLAT FILED FEBRUARY 13, 1967 (C6-161) EASEMENT TO REMAIN

0.1432 Ac Additional Public Street Right-of-way for 86th Street SW Dedicated to City of Albuquerque With The Filing of This Plat

SCALE: 1" = 60'

SHEET 3 | SHEET 4 | SHEET 6 | SHEET 5

ROBERT GROMATZKY NEW MEXICO 16469 LICENSED PROFESSIONAL SURVEYOR 8-04-08

Bohannan ▲ Huston Inc.

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

SHEET 6 OF 7

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JOB NO. 080289 004

2F of 2F

PLAT OF
UNSER CROSSINGS

(A REPLAT OF TRACTS 1A, 1B, 2A, 2B, 3A, 3B, 4B & TRACT 6 V.E. BARRETT SUBDIVISION AND TRACTS 4-A-1, 5-B-1 & 5-B-2 LANDS OF WEFCO, PARTNERS)

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JULY, 2008

Curve Data						
ID	DELTA	TANGENT	ARC	RADIUS	CHORD	CHORD BRG
C1	27°34'44"	301.66'	591.62'	1229.11'	585.92'	S01°14'45"E
	(27°34'45")	*(301.72')*	*(591.75')*	*(1229.36')*	*(586.05')*	
C2	89°58'03"	34.98'	54.96'	35.00'	49.48'	S29°59'40"W
C3	27°36'07"	73.69'	144.52'	300.00'	143.13'	S01°11'19"E
C4	90°02'41"	25.02'	39.29'	25.00'	35.37'	S32°24'36"E
C5	62°33'54"	22.48'	40.40'	37.00'	38.43'	S43°41'57"W
C6	08°34'35"	22.49'	44.91'	300.00'	44.86'	N10°43'48"W
C7	09°56'21"	105.47'	210.42'	1213.00'	210.16'	S08°48'37"E
C8	35°08'42"	18.05'	34.96'	57.00'	34.42'	S29°07'40"W
C9	28°29'54"	38.09'	74.61'	150.00'	73.84'	N63°19'46"W
C10	25°49'36"	45.47'	89.40'	198.33'	88.65'	N66°16'01"W
C11	00°31'07"	5.56'	11.12'	1229.11'	11.12'	S14°46'33"E
C12	10°45'24"	115.71'	230.75'	1229.11'	230.41'	S09°08'18"E
C13	14°31'04"	156.56'	311.44'	1229.11'	310.60'	S03°29'56"W
C14	17°10'55"	2.27'	4.50'	15.00'	4.48'	S82°55'32"E
C15	32°05'30"	38.83'	75.61'	135.00'	74.63'	N72°26'16"E
C16	40°12'12"	60.39'	115.78'	165.00'	113.42'	N76°29'37"E
C17	01°47'09"	19.16'	38.31'	1229.11'	38.31'	S11°39'02"W
C18	90°00'00"	15.00'	23.56'	15.00'	21.21'	N57°25'11"E
C19	90°00'11"	4.00'	6.28'	4.00'	5.66'	N32°34'54"W
C20	89°59'49"	4.00'	6.28'	4.00'	5.66'	N57°25'06"E
C21	64°30'23"	15.78'	28.15'	25.00'	26.68'	N19°50'00"W
C22	02°03'08"	21.87'	43.73'	1221.00'	43.73'	N10°15'24"E
C23	37°13'34"	8.42'	16.24'	25.00'	15.96'	N27°08'02"E
C24	07°58'50"	85.52'	170.77'	1226.00'	170.63'	N04°31'50"E
C25	13°11'43"	144.58'	287.88'	1250.00'	287.24'	N08°25'14"W
C26	10°05'13"	113.58'	226.58'	1287.00'	226.28'	S08°49'31"E
C27	46°40'10"	24.59'	46.43'	57.00'	45.16'	S28°59'58"E
C28	10°45'54"	28.27'	56.37'	300.00'	56.28'	N01°03'34"W
C29	19°20'29"	51.12'	101.27'	300.00'	100.79'	S05°20'51"E
C30	12°11'31"	5.34'	10.64'	50.00'	10.62'	S06°19'32"W
C31	12°24'15"	5.43'	10.82'	50.00'	10.80'	S06°25'54"W
C32	240°04'00"	------	238.83'	57.00'	98.69'	S54°18'07"W
C33	07°57'03"	85.20'	170.13'	1226.00'	169.99'	S04°32'43"W
C34	07°17'09"	81.11'	162.00'	1274.00'	161.89'	N04°52'40"E
C35	84°10'26"	45.16'	73.46'	50.00'	67.03'	N43°19'19"E
C36	29°01'01"	41.15'	80.52'	159.00'	79.67'	N70°54'02"E
C37	40°12'12"	51.60'	98.94'	141.00'	96.92'	N76°29'37"E
C38	84°10'26"	42.45'	69.05'	47.00'	63.00'	S54°30'30"W
C39	36°54'18"	8.34'	16.10'	25.00'	15.83'	N05°50'24"W
C40	03°05'50"	33.23'	66.44'	1229.11'	66.43'	N02°12'42"W
C41	11°19'05"	12.88'	25.68'	130.00'	25.64'	S04°59'46"W
C42	08°56'47"	12.71'	25.37'	162.50'	25.35'	S06°10'55"W
C43	06°57'21"	74.43'	148.67'	1224.61'	148.58'	S05°11'12"W
C44	80°41'45"	16.99'	28.17'	20.00'	25.90'	S49°00'45"W

Tangent Data		
ID	BEARING	DISTANCE
T1	S12°48'38"W	4.37'
	(S12°48'43"W)	*(3.87')*
T2	N74°58'41"E	44.41'
T3	S14°59'22"E	13.60'
T4	N19°33'49"W	30.14'
T5	N77°35'00"W	20.00'
T6	N19°33'49"W	16.62'
T7	N19°33'49"W	13.52'
T8	S06°35'43"W	15.00'
T9	S74°58'54"W	41.76'
T10	S74°58'54"W	15.00'
T11	S74°58'54"W	56.76'
T12	N83°24'17"W	2.76'
T13	N77°34'49"W	10.28'
T14	S12°25'11"W	37.09'
T15	N77°35'00"W	14.00'
T16	N77°35'00"W	14.01'
T17	N06°50'20"W	13.22'
T18	S00°13'46"W	37.25'
T19	S00°13'46"W	17.00'
T20	S00°13'46"W	54.25'
T21	S12°38'01"W	36.53'
T22	S15°01'45"E	18.65'
T23	S15°01'45"E	11.44'
T24	N12°25'00"E	40.43'
T25	S12°25'00"W	40.49'
T26	S12°25'00"W	60.50'
T27	S12°25'00"W	60.51'
T28	N12°25'00"E	23.00'
T29	N12°38'01"E	27.37'
T30	S12°38'01"W	30.67'
T31	N12°38'01"E	25.29'
T32	N12°38'01"E	31.32'
T33	S77°21'59"E	19.59'
T34	N77°22'51"W	31.85'
T35	N15°01'06"W	32.50'
T36	S15°01'06"E	42.63'
T37	S74°58'15"W	29.92'
T38	N74°58'15"E	37.51'
T39	N74°58'15"E	37.50'
T40	S83°02'33"E	37.77'
T41	N06°35'43"E	30.83'
T42	N06°35'43"E	31.10'
T43	N06°35'43"E	45.58'
T44	S77°11'06"E	36.67'
T45	S77°25'56"E	27.50'
T46	S04°10'34"W	82.55'
T47	S12°25'11"W	425.17'
T48	S77°25'56"E	24.00'
T49	N12°25'11"E	425.23'
T50	N20°29'35"E	85.82'
T51	S83°24'17"E	374.78'
T52	S06°35'43"W	10.88'

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

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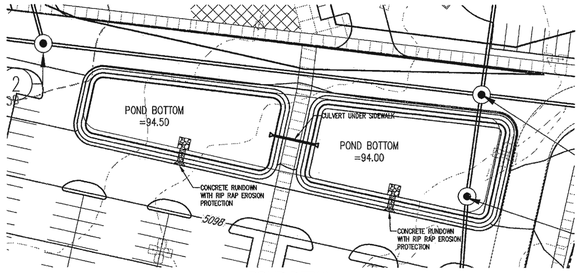
nicole
JOB NO. 080289 004

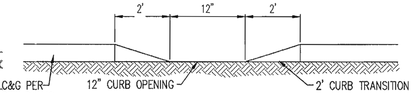
RECORD DRAWINGS



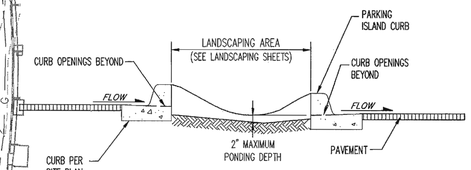
POND DETAIL
1"=50'

KEYED NOTES

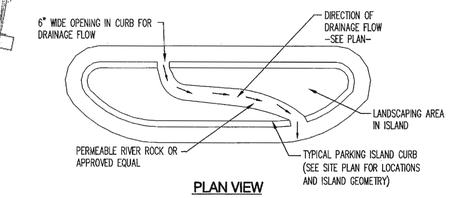
1. STORM DRAIN INLET.
2. STORM DRAIN MANHOLE.
3. STORM DRAIN MANHOLE WITH SLOTTED COVER.
4. STUB ROOF DRAIN TO WITHIN 5' OF BUILDING.
5. STUB STORM DRAIN TO 10' BEYOND PROPERTY LINE.
6. CONNECT EXISTING STORM DRAIN CULVERTS TO NEW JUNCTION BOX. CONNECT JUNCTION BOX TO EXISTING STORM DRAIN IN UNSER BLVD. THIS WORK SHALL BE COMPLETED WITH PUBLIC INFRASTRUCTURE PLANS.
7. RETAINING WALL
8. TYPE DOUBLE A INLET
9. TYPE C INLET
10. EXISTING DROP INLET TO REMAIN



1 TYPICAL CURB CUT DETAIL
N.T.S.

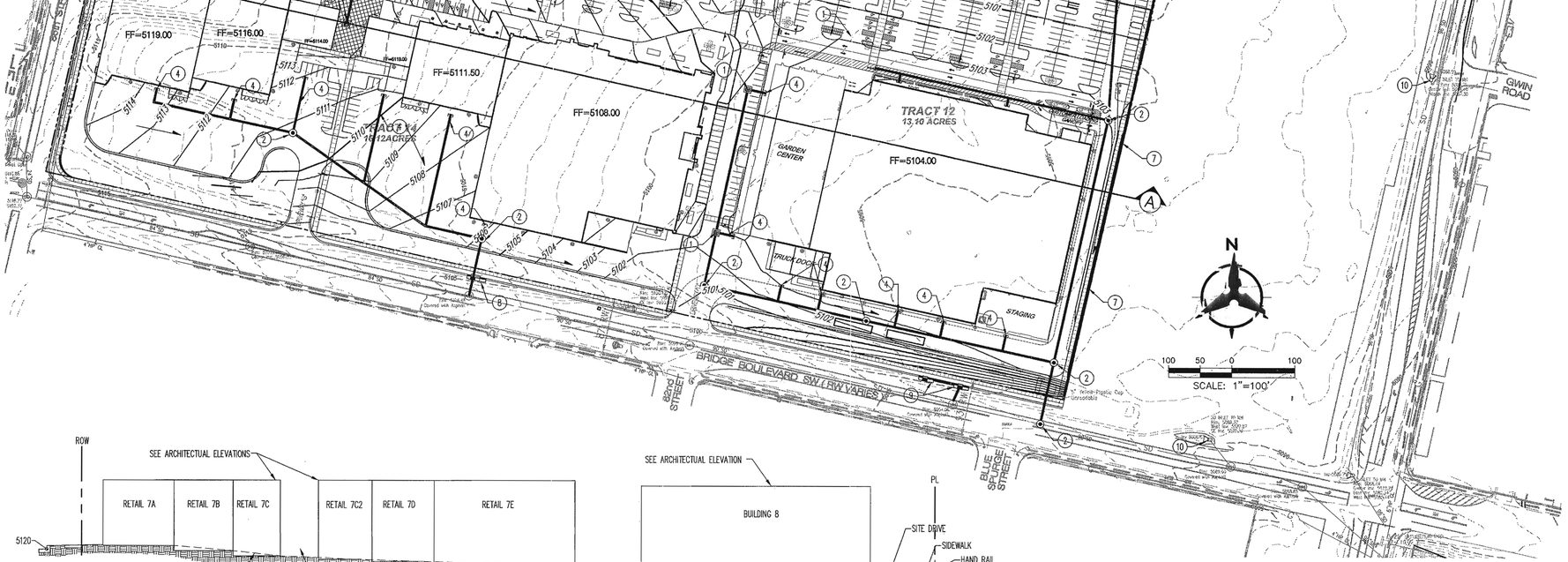


CROSS SECTION
N.T.S.



PLAN VIEW
N.T.S.

2 TYPICAL WATER HARVESTING DETAIL
N.T.S.



SECTION A-A
NTS

LEGEND

- PROPERTY LINE
- 5301 EXISTING CONTOURS
- 5301.15 EXISTING GROUND SPOT ELEVATION
- EXISTING ELECTRICAL POLE
- 65.23 PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE TW=TOP OF WALL, BW=BOTTOM OF WALL EX=EXISTING, TG=TOP OF GRADE
- S=2.0% PROPOSED DIRECTION OF FLOW
- WATER BLOCK
- PROPOSED RETAINING WALL
- 5305 PROPOSED INDEX CONTOURS
- PROPOSED INTER CONTOURS
- PROPOSED CURB & GUTTER
- EASEMENT
- EXISTING TREE
- SD PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- EXISTING STORM DRAIN MANHOLE

DSA
Darren Sowell
ARCHITECTS
4700 Lincoln N.E., Suite 111
Albuquerque, N.M. 87109
Phone: (505) 342-6200
Fax: (505) 342-6201

Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

Mitchell Associates, LLC
Landscape Architects
Carlisle Blvd, NE, Suite 112
Albuquerque, NM 87110
Phone: (505) 830-6096
darin@mitchellassociatesllc.com

ARMSTRONG DEVELOPMENT PROPERTIES, INC.

BRUCE J. STIDWORTHY
NEW MEXICO
14523
REGISTERED PROFESSIONAL ENGINEER
6/17/08

Unser Crossing
DRB Submittal
Site Plan for Building Permit
Central Avenue and Unser Boulevard
Albuquerque, New Mexico 87121

Job Number	
Drawn By	BO
Checked	RM/BJS
Issue Date	June 17, 2008

CONCEPTUAL GRADING PLAN

Scale

C-101

00 OF 00

2H of 29
For Information Only

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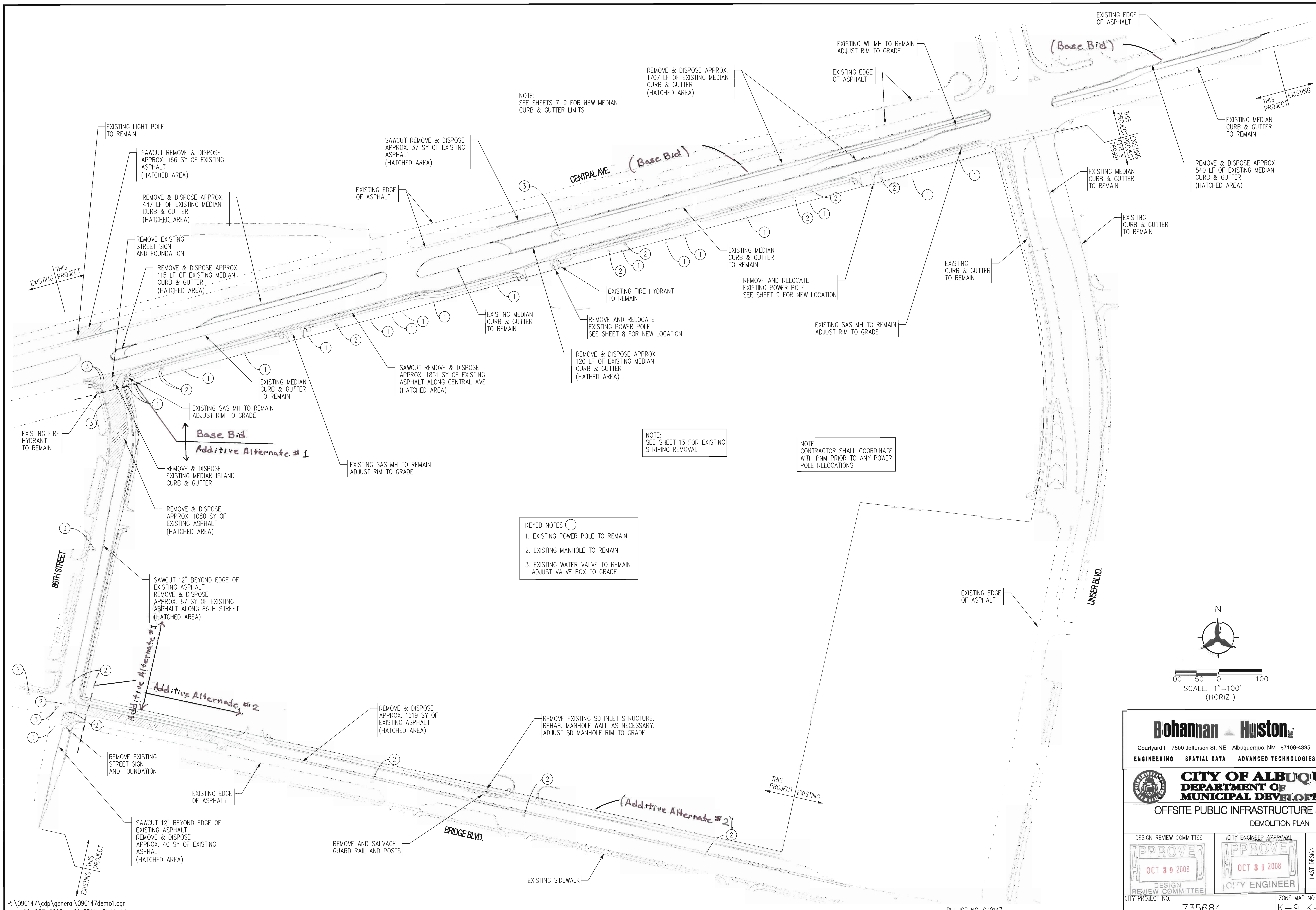
RECORD DRAWINGS



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BHI JOB NO. 090147

AS-BUILT INFORMATION
CONTRACTOR / WORK STAKED BY Cartesian Surveys Inc. / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION Cartesian Surveys Inc. / DRAWINGS CORRECTED BY

MICRO-FILM INFORMATION
RECORDED BY / NO. / DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
16035 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS / REMARKS	BY
		DESIGN	

DESIGNED BY YPM / BCP — DATE 08/2008
DRAWN BY ARR / SAR — DATE 08/2008
CHECKED BY YPM — DATE 08/2008

Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING SPATIAL DATA ADVANCED TECHNOLOGIES

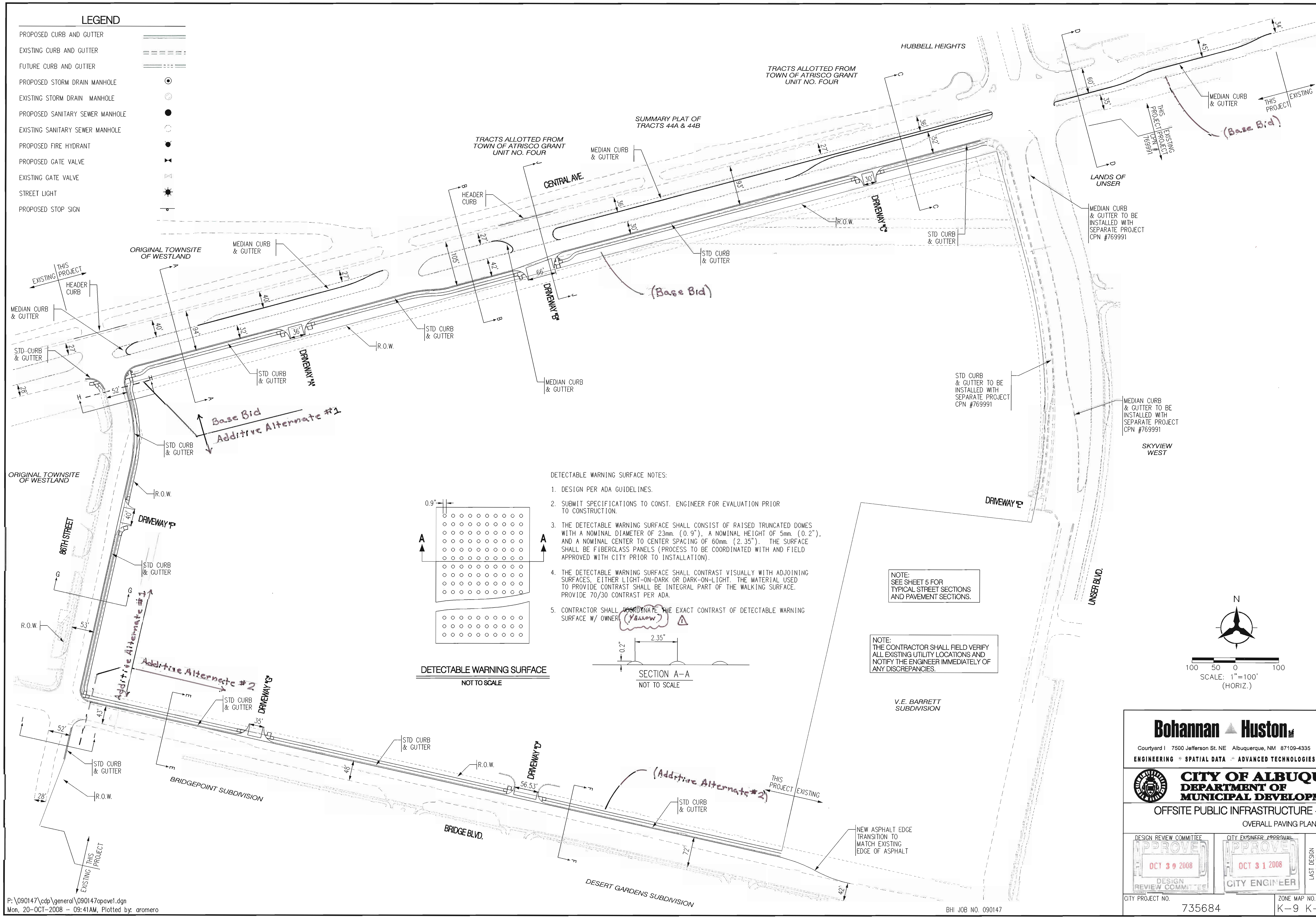
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
DEMOLITION PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	3	29

RECORD DRAWINGS



LEGEND
PROPOSED CURB AND GUTTER
EXISTING CURB AND GUTTER
FUTURE CURB AND GUTTER
PROPOSED STORM DRAIN MANHOLE
EXISTING STORM DRAIN MANHOLE
PROPOSED SANITARY SEWER MANHOLE
EXISTING SANITARY SEWER MANHOLE
PROPOSED FIRE HYDRANT
PROPOSED GATE VALVE
EXISTING GATE VALVE
STREET LIGHT
PROPOSED STOP SIGN
HUBBELL HEIGHTS
TRACTS ALLOTTED FROM TOWN OF ATRISCO GRANT UNIT NO. FOUR
SUMMARY PLAT OF TRACTS 44A & 44B
CENTRAL AVE.
ORIGINAL TOWNSITE OF WESTLAND
LANDS OF UNSER
SKYVIEW WEST
UNSER BLVD.
86TH STREET
BRIDGEPOINT SUBDIVISION
BRIDGE BLVD.
DESERT GARDENS SUBDIVISION
V.E. BARRETT SUBDIVISION
MEDIAN CURB & GUTTER
STD CURB & GUTTER
HEADER CURB
R.O.W.
THIS PROJECT
EXISTING
DRIVEWAY "A"
DRIVEWAY "B"
DRIVEWAY "C"
DRIVEWAY "D"
DRIVEWAY "E"
DRIVEWAY "F"
DRIVEWAY "G"
MEDIAN CURB & GUTTER TO BE INSTALLED WITH SEPARATE PROJECT CPN #769991
STD CURB & GUTTER TO BE INSTALLED WITH SEPARATE PROJECT CPN #769991
NEW ASPHALT EDGE TRANSITION TO MATCH EXISTING EDGE OF ASPHALT
(Base Bid)
Base Bid
Additive Alternate #1
Additive Alternate #2
(Additive Alternate #2)
NOTE: SEE SHEET 5 FOR TYPICAL STREET SECTIONS AND PAVEMENT SECTIONS.
NOTE: THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
N
100 50 0 100
SCALE: 1"=100' (HORIZ.)
0.9"
A
A
2.35"
0.2"

DETECTABLE WARNING SURFACE

NOT TO SCALE

SECTION A–A

NOT TO SCALE

DETECTABLE WARNING SURFACE NOTES:

1. DESIGN PER ADA GUIDELINES.
2. SUBMIT SPECIFICATIONS TO CONST. ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.
3. THE DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 23mm. (0.9"), A NOMINAL HEIGHT OF 5mm. (0.2"), AND A NOMINAL CENTER TO CENTER SPACING OF 60mm. (2.35"). THE SURFACE SHALL BE FIBERGLASS PANELS (PROCESS TO BE COORDINATED WITH AND FIELD APPROVED WITH CITY PRIOR TO INSTALLATION).
4. THE DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE INTEGRAL PART OF THE WALKING SURFACE. PROVIDE 70/30 CONTRAST PER ADA.
5. CONTRACTOR SHALL ~~COORDINATE THE~~ EXACT CONTRAST OF DETECTABLE WARNING SURFACE W/ OWNER. (YELLOW) △1

AS-BUILT INFORMATION	
CONTRACTOR Franklin's Earthmoving	DATE 09/09
WORK STAKED BY Cartesian Surveys Inc.	DATE
INSPECTOR'S ACCEPTANCE BY COA	DATE 09/09
FIELD VERIFICATION BY Cartesian Surveys Inc.	DATE 8/09
DRAWINGS CORRECTED BY Franklin's Earthmoving	DATE 09/09

MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	DATE

BENCH MARKS

ACS ALUMINUM DISC STAMPED "14–K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = –00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
△1	11-09	AS-BUILT INFORMATION	YM

DESIGN

DESIGNED BY	YPM / BCP	DATE 08/2008
DRAWN BY	ARR / SAR	DATE 08/2008
CHECKED BY	YPM	DATE 08/2008

Bohannan ▲ Huston Inc.

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING

OVERALL PAVING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K–9 K–10	4	29

BHI JOB NO. 090147

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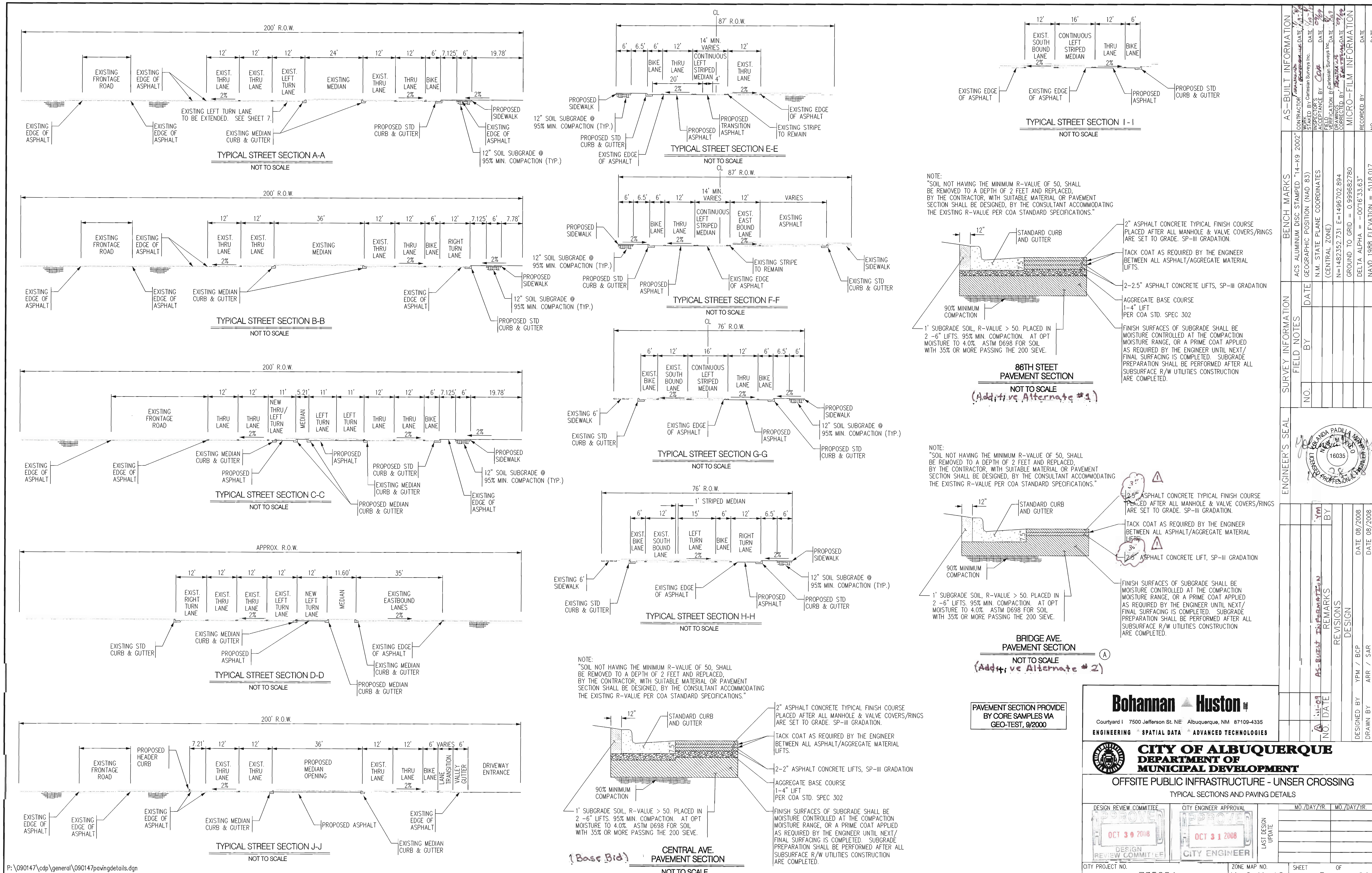
RECORD DRAWINGS



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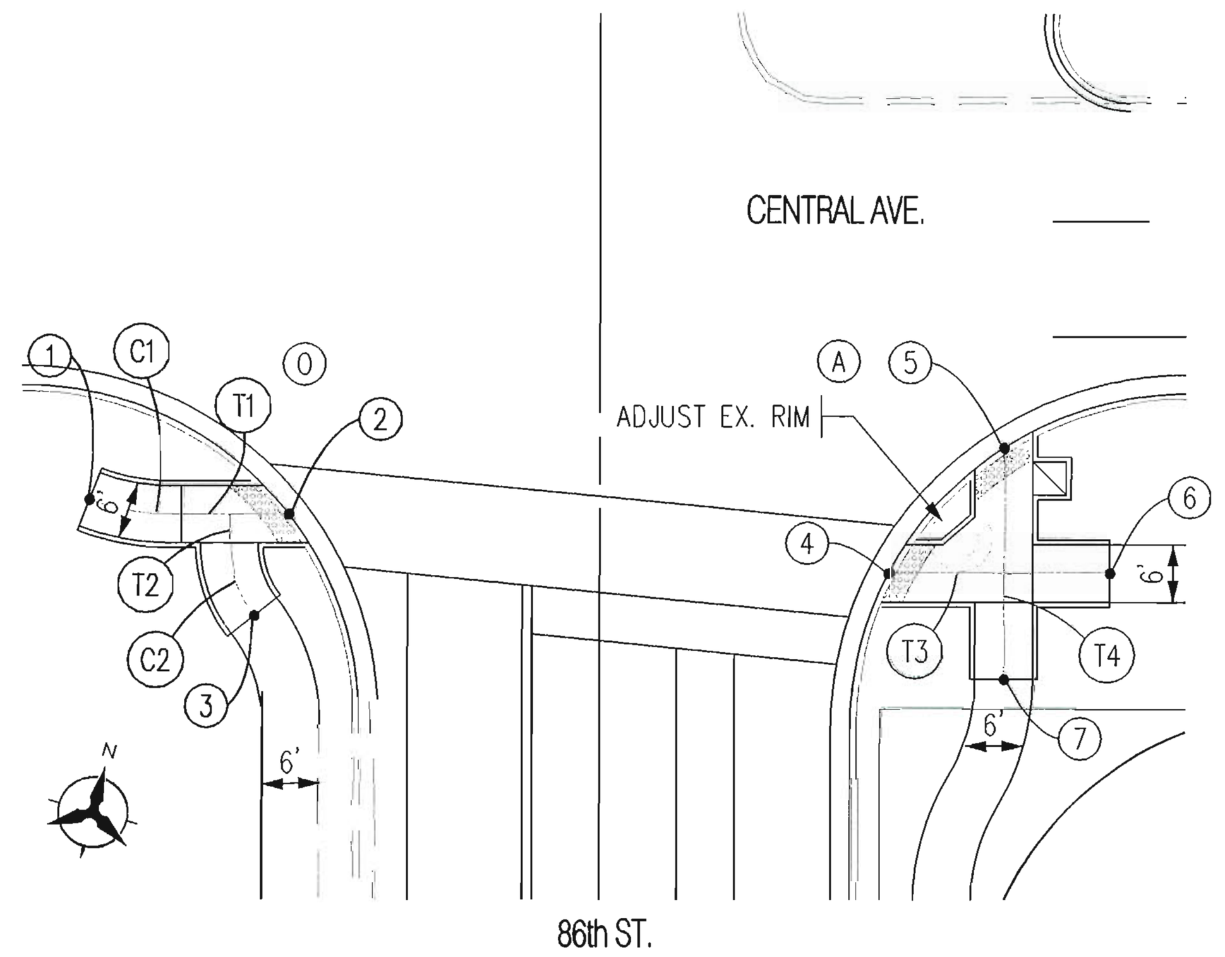


WHEEL CHAIR RAMP DETAIL
DETAIL "A"
SCALE: 1"=20'

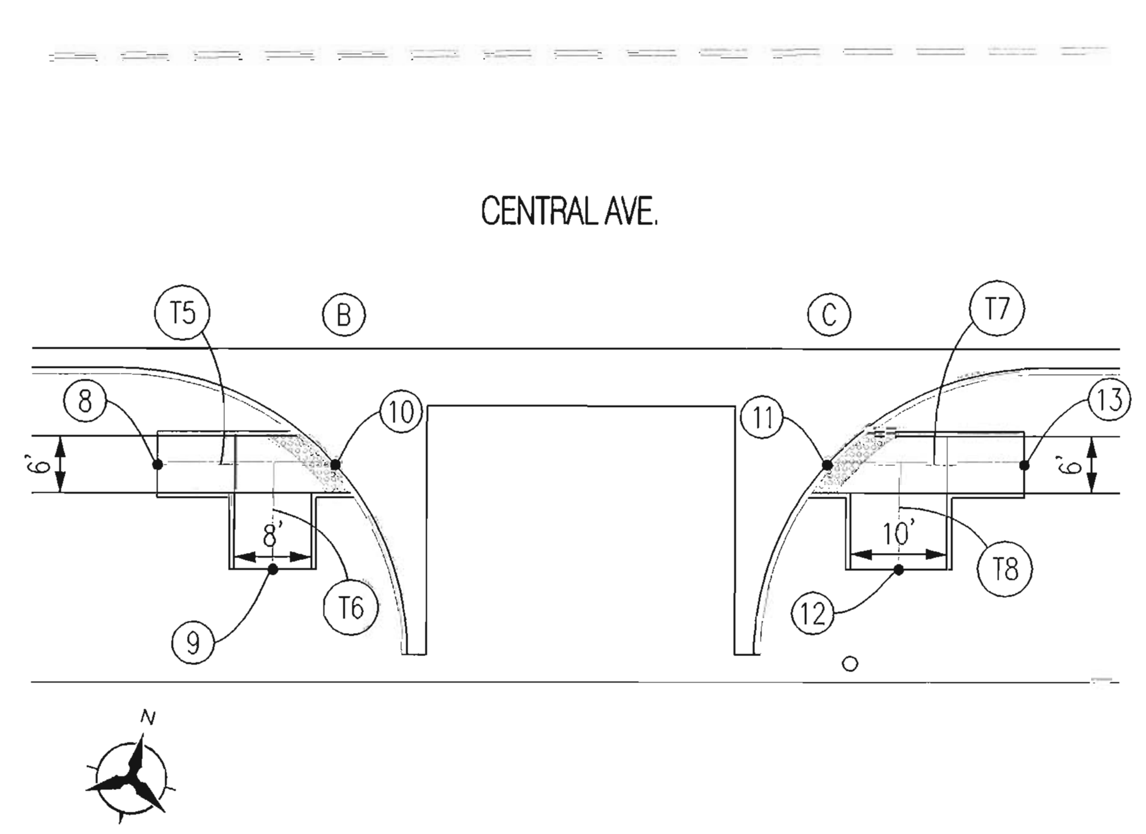
Ramp "0" Point Table		
◯	STATION	OFFSET
1	9+47.92	59.05' RT
2	9+68.65	60.60' RT
3	9+64.38	70.28' RT

Ramp "0" Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C1	8.50'	23.00'	21°10'27"	4.30'
C2	7.99'	12.00'	38°09'53"	4.15'

Ramp "0" Tangent Table		
ID	BEARING	LENGTH
T1	N74°58'41"E	12.42'
T2	N15°01'19"W	3.17'

Ramp "A" Point Table		
◯	STATION	OFFSET
4	10+30.92	66.81' RT
5	10+42.91	53.63' RT
6	10+53.91	66.81' RT
7	10+42.91	77.75' RT

Ramp "A" Tangent Table		
ID	BEARING	LENGTH
T3	N74°58'41"W	22.99'
T4	S15°01'19"E	24.12'



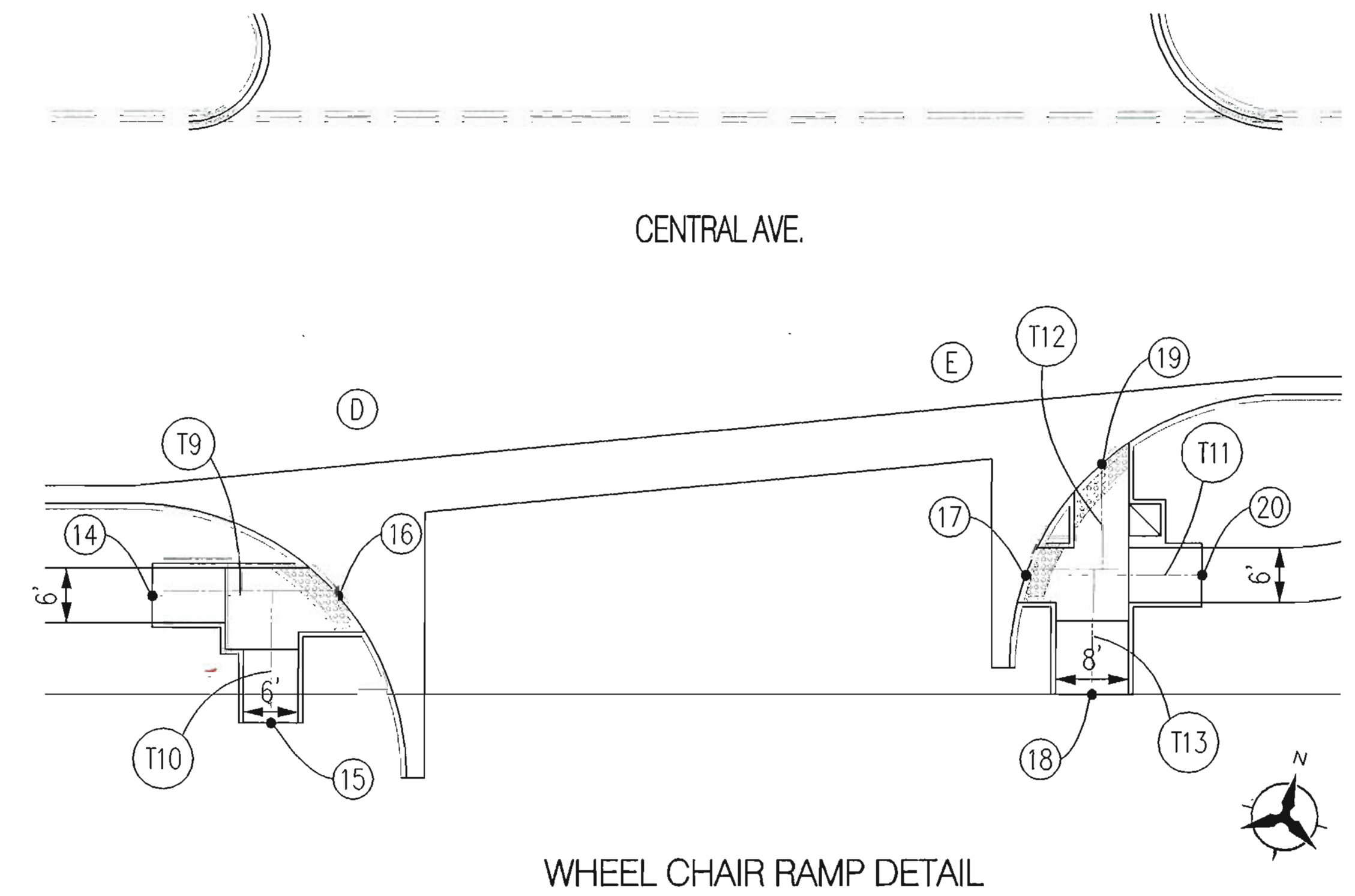
WHEEL CHAIR RAMP DETAIL
DETAIL "B"
SCALE: 1"=20'

Ramp "B" Point Table		
◯	STATION	OFFSET
8	13+94.50	58.12' RT
9	14+06.50	69.12' RT
10	14+12.97	58.12' RT

Ramp "B" Tangent Table		
ID	BEARING	LENGTH
T5	N74°58'41"E	18.47'
T6	S15°01'10"E	11.00'

Ramp "C" Point Table		
◯	STATION	OFFSET
11	14+64.03	58.13' RT
12	14+71.50	69.13' RT
13	14+84.50	58.13' RT

Ramp "C" Tangent Table		
ID	BEARING	LENGTH
T7	N74°58'41"E	20.47'
T8	S15°01'06"E	11.00'



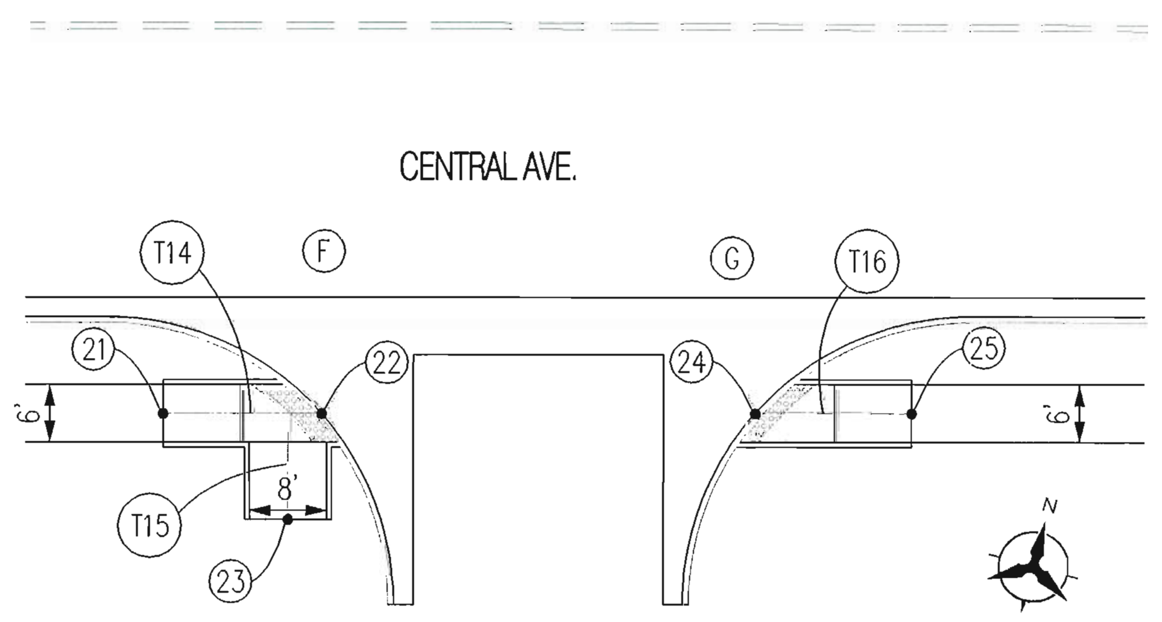
WHEEL CHAIR RAMP DETAIL
DETAIL "C"
SCALE: 1"=20'

Ramp "D" Point Table		
◯	STATION	OFFSET
14	19+57.29	70.12' RT
15	19+70.29	84.00' RT
16	19+77.61	70.13' RT

Ramp "D" Tangent Table		
ID	BEARING	LENGTH
T9	N74°58'41"E	20.32'
T10	N15°01'19"W	13.87'

Ramp "E" Point Table		
◯	STATION	OFFSET
17	20+52.89	67.90' RT
18	20+61.15	80.91' RT
19	20+61.17	55.61' RT
20	20+72.17	67.90' RT

Ramp "E" Tangent Table		
ID	BEARING	LENGTH
T11	N74°58'41"E	19.28'
T12	S15°01'06"E	12.29'
T13	S14°52'13"E	13.01'



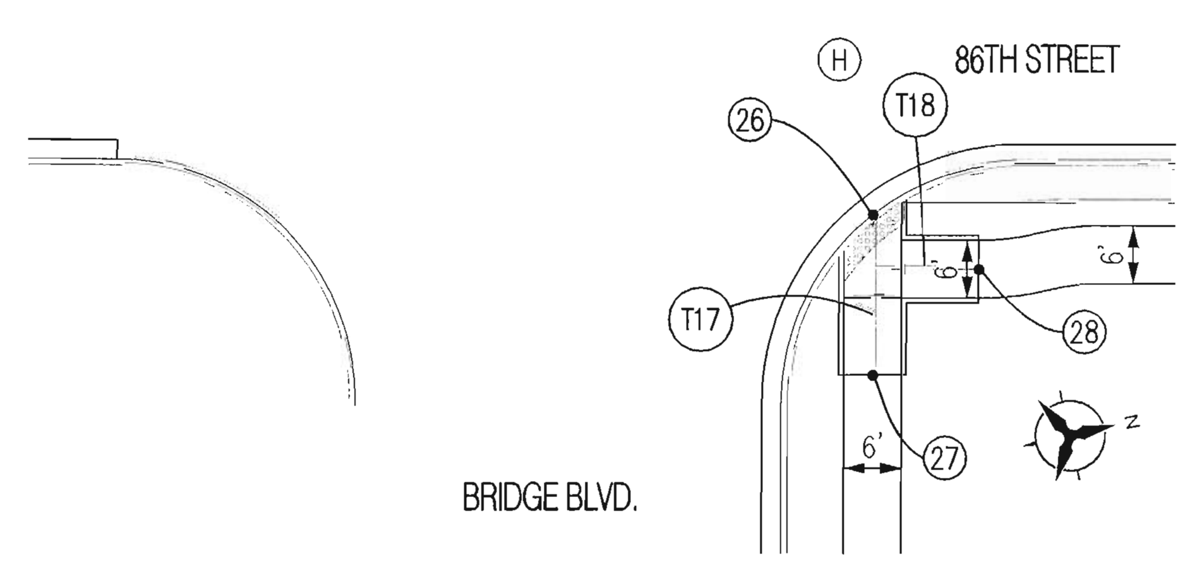
WHEEL CHAIR RAMP DETAIL
DETAIL "D"
SCALE: 1"=20'

Ramp "F" Point Table		
◯	STATION	OFFSET
21	27+63.91	58.12' RT
22	27+80.39	58.13' RT
23	27+76.90	69.13' RT

Ramp "F" Tangent Table		
ID	BEARING	LENGTH
T14	N74°58'41"E	16.48'
T15	S15°05'34"E	11.00'

Ramp "G" Point Table		
◯	STATION	OFFSET
24	28+25.44	58.13' RT
25	28+41.69	58.13' RT

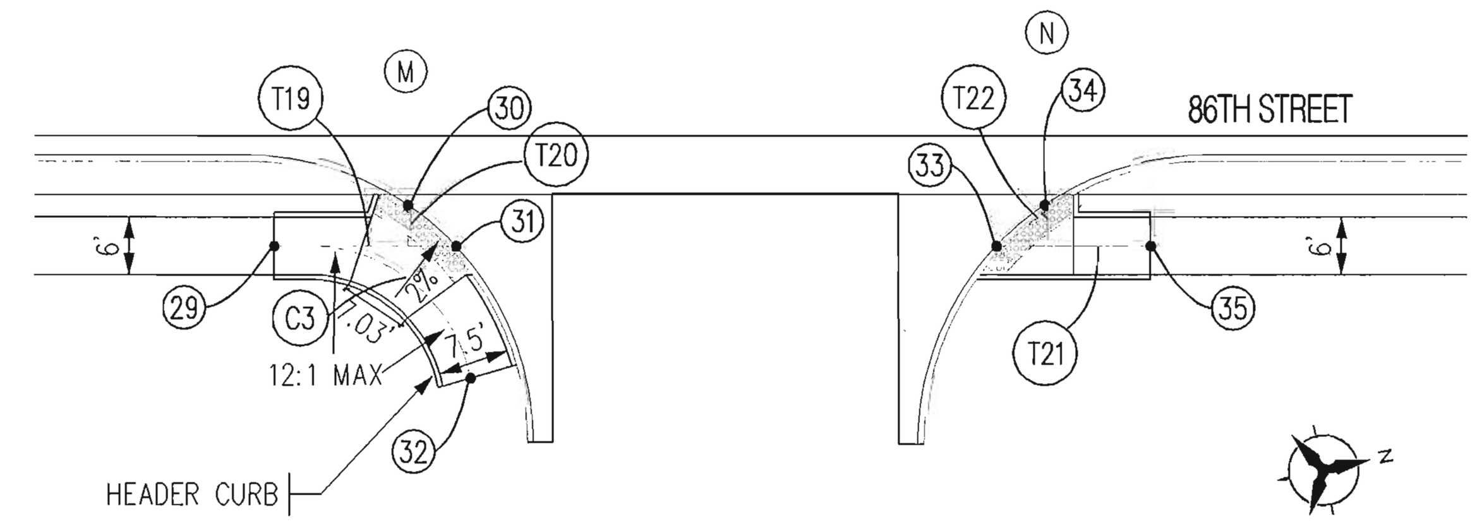
Ramp "G" Tangent Table		
ID	BEARING	LENGTH
T16	N74°58'41"E	16.24'



WHEEL CHAIR RAMP DETAIL
DETAIL "E"
SCALE: 1"=20'

Ramp "H" Point Table		
◯	STATION	OFFSET
26	2+50.85	31.40' RT
27	2+50.87	48.05' RT
28	2+61.86	37.05' RT

Ramp "H" Tangent Table		
ID	BEARING	LENGTH
T17	S77°25'56"E	16.65'
T18	N12°36'45"E	11.00'



WHEEL CHAIR RAMP DETAIL
DETAIL "F"
SCALE: 1"=20'

Ramp "M" Point Table		
◯	STATION	OFFSET
29	6+29.66	35.50' RT
30	6+43.55	31.20' RT
31	6+48.57	35.50' RT
32	6+50.09	49.21' RT

Ramp "M" Tangent Table		
ID	BEARING	LENGTH
T19	S12°36'45"W	16.02'
T20	N77°23'15"W	4.30'

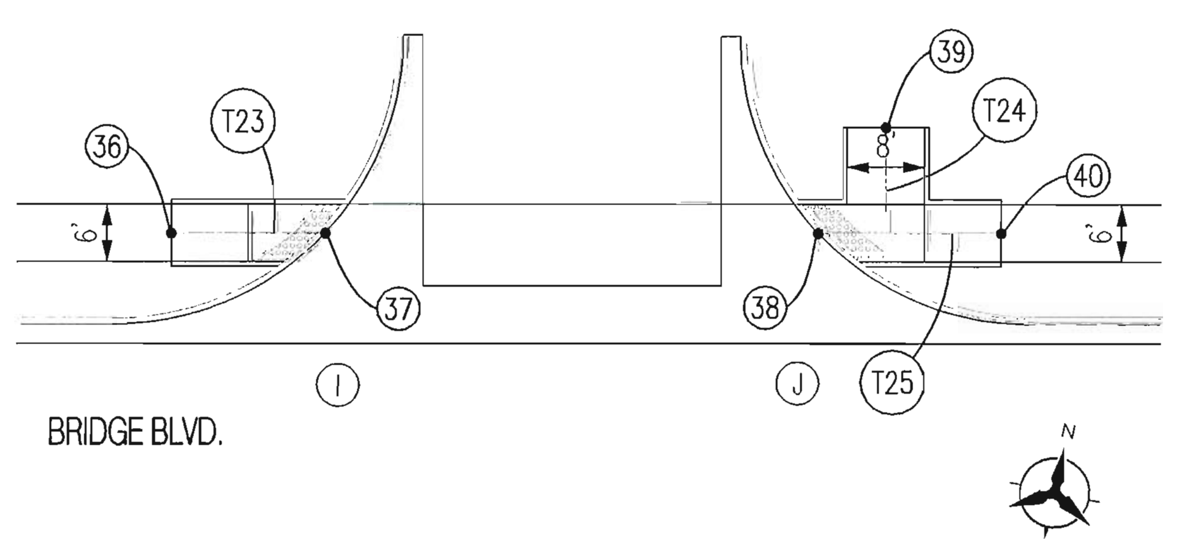
Ramp "M" Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C3	24.38'	17.15'	81°27'47"	14.77'

Ramp "N" Point Table		
◯	STATION	OFFSET
33	7+04.76	35.50' RT
34	7+09.78	31.20' RT
35	7+20.78	35.50' RT

Ramp "N" Tangent Table		
ID	BEARING	LENGTH
T21	N12°36'45"E	16.02'
T22	N77°23'15"W	4.30'

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.

[signature]



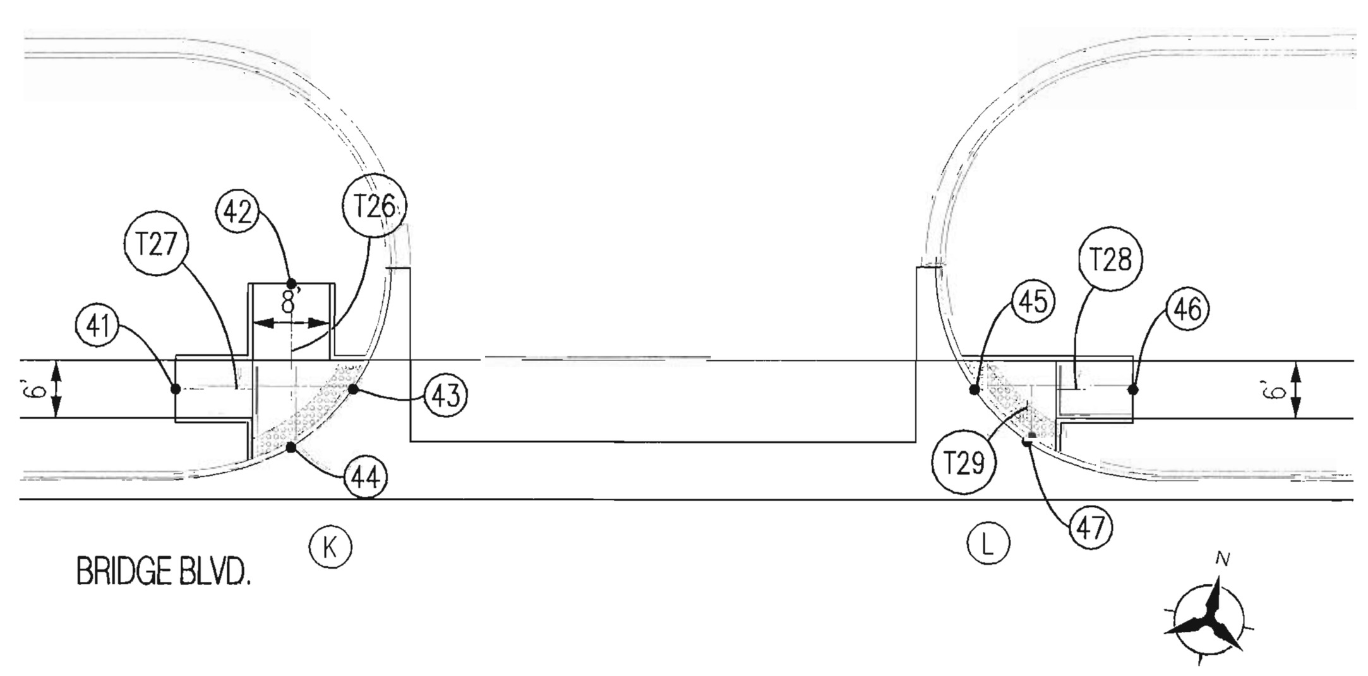
WHEEL CHAIR RAMP DETAIL
DETAIL "G"
SCALE: 1"=20'

Ramp "I" Point Table		
◯	STATION	OFFSET
36	13+98.92	35.50' LT
37	14+14.94	35.50' LT

Ramp "I" Tangent Table		
ID	BEARING	LENGTH
T23	N77°25'56"W	16.02'

Ramp "J" Point Table		
◯	STATION	OFFSET
38	14+66.14	35.50' LT
39	14+73.15	46.50' LT
40	14+85.15	35.50' LT

Ramp "J" Tangent Table		
ID	BEARING	LENGTH
T24	S12°34'04"W	11.00'
T25	S77°25'56"E	19.02'



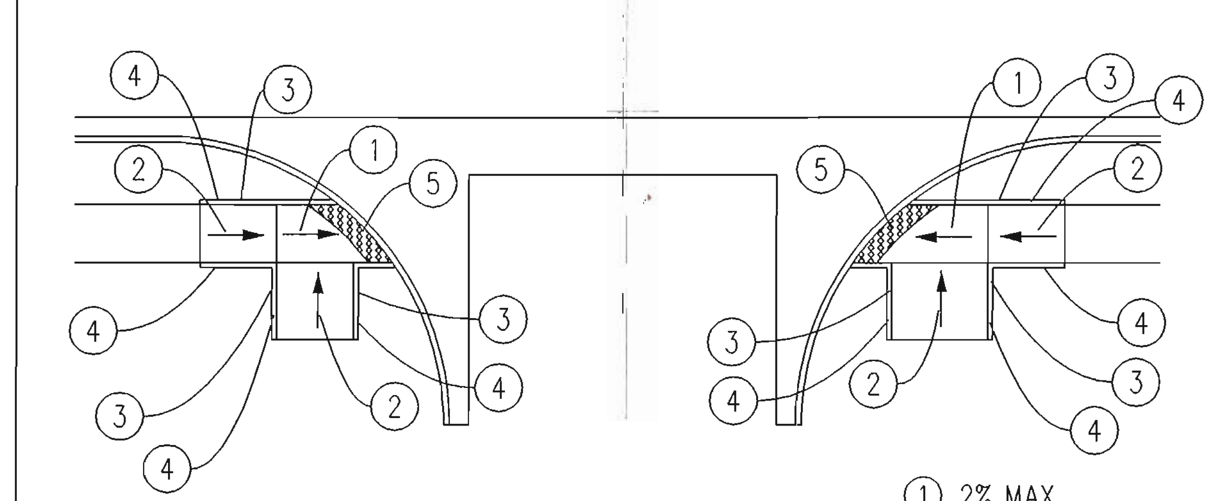
WHEEL CHAIR RAMP DETAIL
DETAIL "H"
SCALE: 1"=20'

Ramp "K" Point Table		
◯	STATION	OFFSET
41	20+29.06	35.50' LT
42	20+41.06	46.50' LT
43	20+47.50	35.50' LT
44	20+41.06	29.44' LT

Ramp "K" Tangent Table		
ID	BEARING	LENGTH
T26	S12°34'04"W	17.06'
T27	N77°25'56"W	18.43'

Ramp "L" Point Table		
◯	STATION	OFFSET
45	21+12.07	35.50' LT
46	21+28.54	35.50' LT
47	21+17.54	30.10' LT

Ramp "L" Tangent Table		
ID	BEARING	LENGTH
T28	S77°25'56"E	16.46'
T29	S12°34'04"W	5.40'



NOTE:
ALL CURBS ON WHEELCHAIR RAMPS ARE HEADER CURB

1. 2% MAX.
2. 12:1 MAX.
3. HEADER CURB
4. TRANSITION FROM CURB TO NO CURB
5. 2' WIDE DETECTABLE WARNING SURFACE PER DETAIL SHEET 4

TYPICAL
WHEEL CHAIR RAMP DETAIL
NOT TO SCALE

AS-BUILT INFORMATION
CONTRACTOR / STAKED BY Cartesian Surveys Inc. / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY Cartesian Surveys Inc. / DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE / NO. — DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
[Seal: YOLANDA PADILLA MOYER, NEW MEXICO, 16035, LICENSED PROFESSIONAL ENGINEER]

NO.	DATE	BY	REMARKS

REVISIONS

DESIGN
DESIGNED BY YPM / BCP — DATE 08/2008
DRAWN BY AHR / SAR — DATE 08/2008
CHECKED BY YPM — DATE 08/2008

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
WHEEL CHAIR RAMP DETAILS

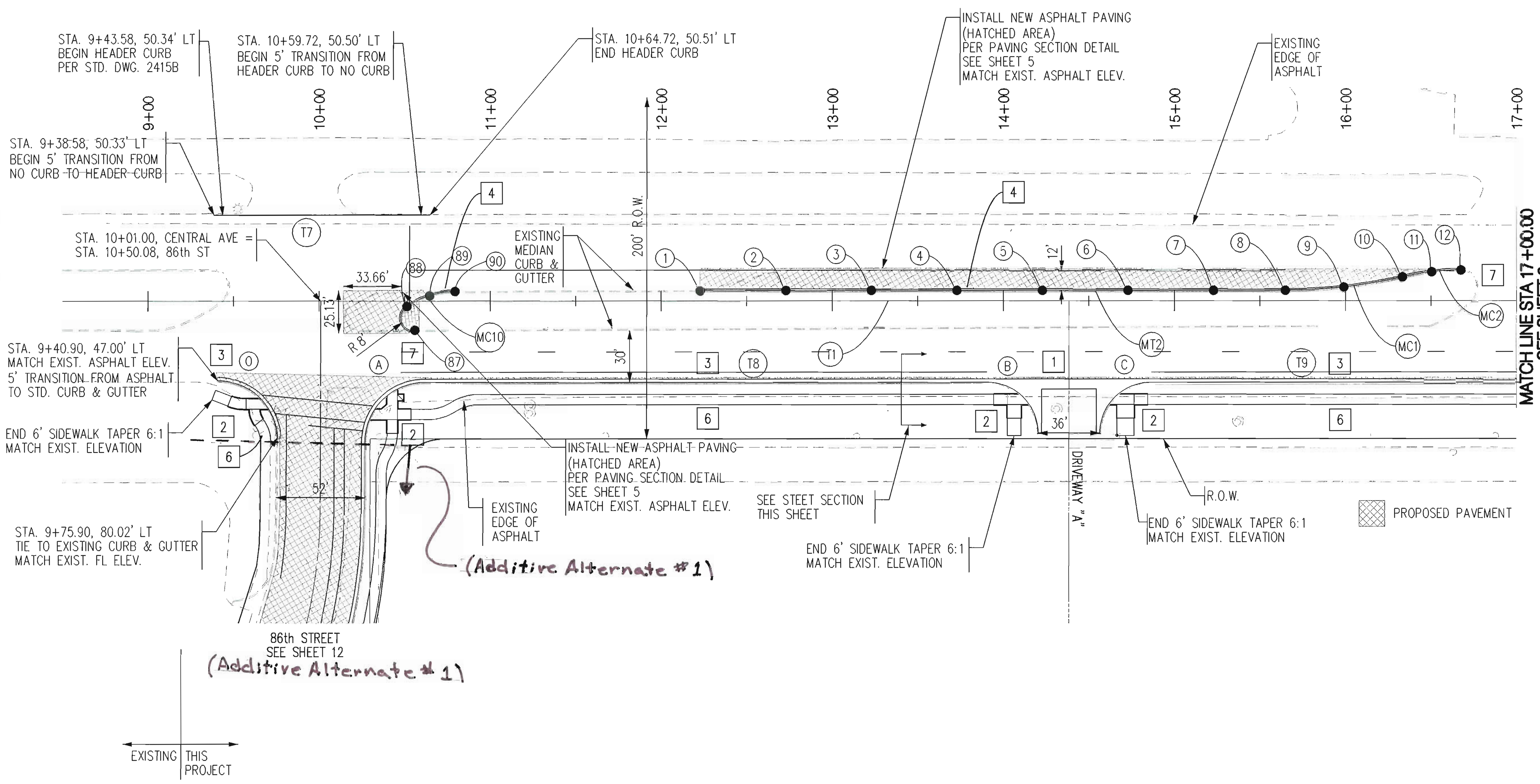
DESIGN REVIEW COMMITTEE — APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL — APPROVED OCT 31 2008 CITY ENGINEER
MO./DAY/YR. | MO./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	6	29

BHI JOB NO. 090147

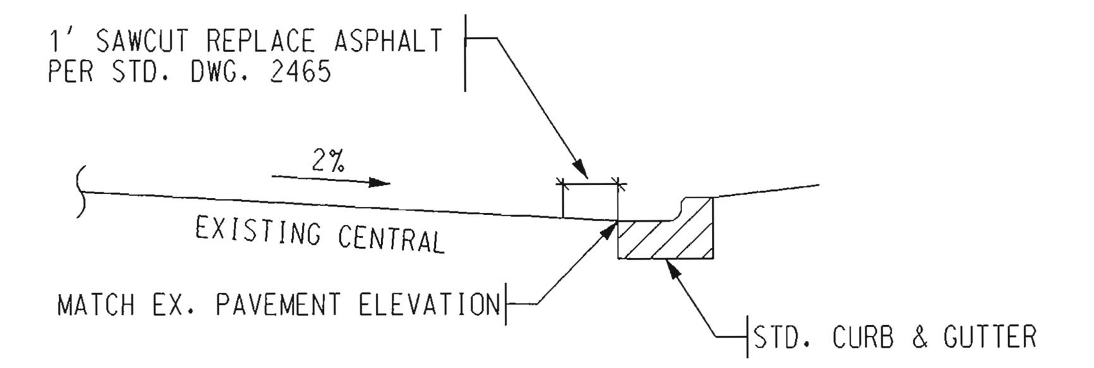
P:\090147\cdp\general\090147rampdetails.dgn
Mon, 20-OCT-2008 - 09:43AM, Plotted by: aromero

RECORD DRAWINGS



NOTE:
ADJUST ALL STORM DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND WATER VALVES TO FINISHED GRADE.

CONTRACTOR SHALL COORDINATE WITH DRY UTILITY OWNER AND ADJUST ALL DRY UTILITIES MANHOLES TO FINISHED GRADE.



CENTRAL AVE. STREET SECTION
NOT TO SCALE

Certification
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N

50 25 0 50
SCALE: 1"=50' (HORIZ.)

CENTRAL AVENUE (Base Bid)

MEDIAN Point Table			
◯	STATION	OFFSET	ELEVATION
* 1	12+22.79	6.30' LT	MATCH EX. 5122.0 ⚠1
2	12+72.79	6.30' LT	~~5121.29~~ 21.4
3	13+22.79	6.30' LT	5120.38
4	13+72.79	6.30' LT	5119.34
5	14+22.79	6.30' LT	5118.38
6	14+72.79	6.30' LT	5117.47
7	15+22.79	6.30' LT	5116.55
8	15+64.75	6.30' LT	5115.83
9	15+98.99	8.26' LT	5115.25
10	16+33.24	14.22' LT	5114.60
11	16+50.34	17.23' LT	5114.29
* 12	16+67.45	18.25' LT	MATCH EX. 14.0 ⚠1
* 87	10+56.78	18.20' RT	MATCH EX. 24.6
88	10+51.36	3.16' RT	5125.22
89	10+64.72	3.40' LT	5124.91
* 90	10+79.42	5.74' LT	MATCH EX. 24.6 ⚠1

* TIE TO EXISTING MEDIAN CURB & GUTTER MATCH EXISTING ELEVATIONS

(XXXX.XX) = VERIFIED ELEVATION

CL Tangent Table		
ID	BEARING	LENGTH
T1	N74°58'41"E	3070.38'

Median Tangent Table		
ID	BEARING	LENGTH
MT2	N74°58'41"E	341.97'

Median Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
MC1	69.29'	300.00'	13°14'00"	34.80'
MC2	34.33'	150.00'	13°06'51"	17.24'
MC10	29.88'	50.00'	34°14'14"	15.40'

Curb Tangent Table		
ID	BEARING	LENGTH
T7	N74°53'58"E	126.13'
T8	N74°58'41"E	328.55'
T9	N74°58'41"E	215.41'

(A) CURB RETURN FLOWLINE DATA

PC	24.02
1	24.30
2	24.58
3	24.21
PT	~~23.84~~
PI	24.48

D = 89°58'03"
R = 35.00'
T = 34.98'
L = 54.96'
C = 49.48'

PC STA. 10+26.95, 82.98' RT.
PT STA. 10+61.95, 48.00' RT.
PI STA. 10+26.97, 48.00' RT.
RAD STA. 10+61.95, 83.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

(B) CURB RETURN FLOWLINE DATA

PC	17.25
1	17.03
2	16.80
3	16.95
PT	17.10
PI	16.70

D = 90°00'13"
R = 30.00'
T = 30.00'
L = 47.13'
C = 42.43'

PC STA. 13+90.50, 48.00' RT.
PT STA. 14+20.50, 78.00' RT.
PI STA. 14+20.50, 48.00' RT.
RAD STA. 13+90.50, 78.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

(C) CURB RETURN FLOWLINE DATA

PC	16.39
1	16.25
2	16.10
3	15.81
PT	15.52
PI	16.00

D = 89°59'47"
R = 30.00'
T = 30.00'
L = 47.12'
C = 42.43'

PC STA. 14+56.50, 78.00' RT.
PT STA. 14+86.50, 48.00' RT.
PI STA. 14+56.50, 48.00' RT.
RAD STA. 14+86+50, 78.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

(O) CURB RETURN FLOWLINE DATA

PC	~~26.08~~ 26.2 ⚠
1	25.87
2	25.65
3	24.49
PT	23.32
PI	25.60

D = 86°50'55"
R = 35.00'
T = 33.13'
L = 53.05'
C = 48.12'

PC STA. 9+40.90, 47.00' RT.
PT STA. 9+75.90, 80.02' RT.
PI STA. 9+74.03, 47.00' RT.
RAD STA. 9+40.95, 82.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415A (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED GENERAL NOTES

1. INSTALL 6' CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2. INSTALL WHEELCHAIR RAMP AS PER DETAIL SHEET 6
3. STD. CURB & GUTTER PER STD. DWG. 2415A
4. MEDIAN CURB & GUTTER PER STD. DWG. 2415B
5. EXTRUDED ASPHALT CURB PER STD. DWG. 2415B
6. BUILD 6' SIDEWALK PER STD. DWG. 2430
7. BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 5' MIN. WIDTH F-F AS SHOWN ON PLANS. COLOR TO BE DETERMINED BY CITY PROJECT MANAGER. MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT PER COA STD DWG 2408 & 2502
8. FOR STRIPING PLAN SEE SHEET 13

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

AS-BUILT INFORMATION
CONTRACTOR: FRANCHINI'S EARTHMOVING — DATE 09/09
WORK STAKED BY: Cartesian Surveys Inc. — DATE
INSPECTOR'S ACCEPTANCE BY: COA — DATE 09/09
FIELD VERIFICATION BY: Cartesian Surveys Inc. — DATE 9/09
DRAWINGS CORRECTED BY: FRANCHINI'S / CARTESIAN — DATE 09/09

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO. — DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES — NO. — BY — DATE

ENGINEER'S SEAL
YOLANDA PADILLA MOYER — NEW MEXICO — 16035 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS
⚠1	11-09	AS-BUILT INFORMATION

REVISIONS

	DESIGN	
DESIGNED BY	YPM / BCP	DATE 08/2008
DRAWN BY	ARR / SAR	DATE 08/2008
CHECKED BY	YPM	DATE 08/2008

Bohannan ▲ Huston INC.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
PAVING PLAN
CENTRAL AVENUE STA 9+00 - STA 17+00

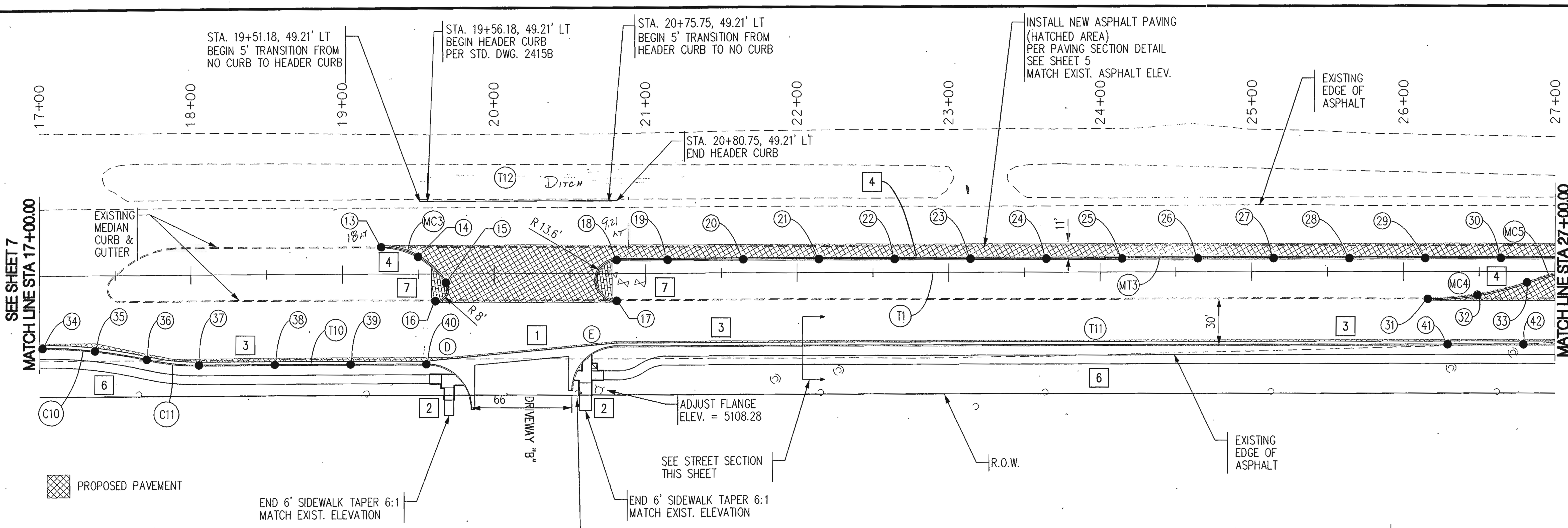
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	7	29

P:\090147\cdp\pnp\090147ppnp1.dgn
Mon, 20-OCT-2008 - 09:45AM, Plotted by: aromero

BHI JOB NO. 090147

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



NOTE:
ADJUST ALL STORM DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND WATER VALVES TO FINISHED GRADE.

CONTRACTOR SHALL COORDINATE WITH DRY UTILITY OWNER AND ADJUST ALL DRY UTILITIES MANHOLES TO FINISHED GRADE.

Ⓓ CURB RETURN FLOWLINE DATA

PC	07.96
1	07.81
2	07.66
3	07.85
PT	08.03
PI	07.56

D = 90°00'13"
R = 30.00'
T = 30.00'
L = 47.13'
C = 42.43'

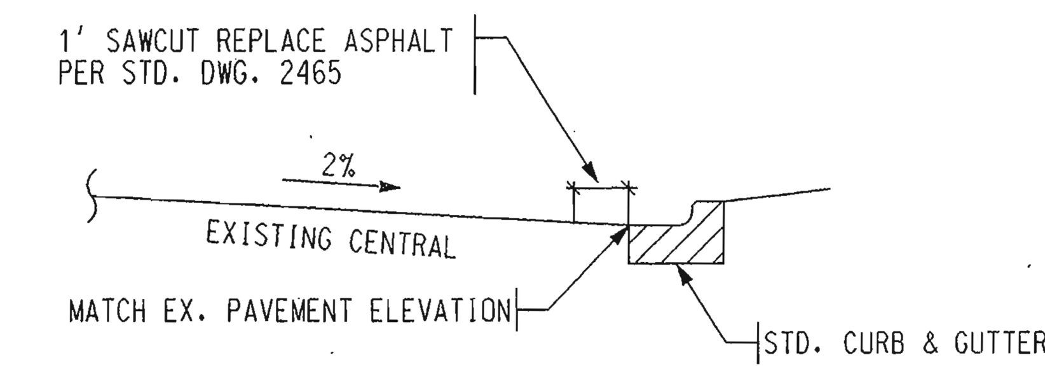
PC STA. 19+55.14, 60.00' RT.
PT STA. 19+85.14, 90.00' RT.
PI STA. 19+79.56, 58.16'RT.
RAD STA. 19+55.14, 90.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

Ⓔ CURB RETURN FLOWLINE DATA

PC	07.25
1	07.07
2	06.88
3	06.49
PT	06.10
PI	06.78

D = 89°59'47"
R = 30.00'
T = 30.00'
L = 47.12'
C = 42.43'

PC STA. 20+51.14, 78.00' RT.
PT STA. 20+81.14, 48.00' RT.
PI STA. 20+51.14, 48.00' RT.
RAD STA. 20+81.14, 78.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS



CENTRAL AVE. STREET SECTION
NOT TO SCALE

N

50 25 0 50
SCALE: 1"=50'
(HORIZ.)

CENTRAL AVENUE (Base Bid)

	Point Table				Point Table				Point Table		
◯	STATION	OFFSET	ELEVATION	◯	STATION	OFFSET	ELEVATION	◯	STATION	OFFSET	ELEVATION
* 13	19+25.46	~~18.01' LT~~ 18.00'	~~MATCH EX.~~ 09.7	24	23+64.35	9.21' LT	5103.68	35	17+36.55	50.01' RT	5111.37
14	19+49.81	11.62' LT	5109.32	25	24+14.35	9.21' LT	3.3 ~~5103.21~~	36	17+70.73	56.00' RT	5110.81
15	19+67.96	5.81' RT	5108.96	26	24+64.35	9.21' LT	5102.84	37	18+05.14	60.00' RT	5110.14
* 16	19+61.14	18.00' RT	~~MATCH EX.~~ 08.8	27	25+14.35	9.21' LT	5102.43	38	18+55.14	60.00' RT	5109.39
* 17	20+80.75	18.00' RT	~~MATCH EX.~~ 08.2	28	25+64.35	9.21' LT	2.0 ~~5102.25~~	39	19+05.14	60.00' RT	5108.64
18	20+80.75	9.21' LT	5107.12	29	26+14.35	9.21' LT	5101.52	40	19+55.14	60.00' RT	5107.89
19	21+14.35	9.21' LT	5106.68	30	26+64.35	9.21' LT	5101.08	41	26+29.23	48.00' RT	5099.60
20	21+64.35	9.21' LT	5105.99	* 31	26+16.13	18.00' RT	MATCH EX.	42	26+79.23	48.00' RT	5099.18
21	22+14.35	9.21' LT	5105.36	32	26+48.84	15.31' RT	~~5100.00~~ 00.3				
22	22+64.35	9.21' LT	5104.76	33	26+81.67	7.18' RT	~~5099.94~~ 00.3				
23	23+14.35	9.21' LT	5104.19	34	17+01.91	48.00' RT	5111.85				

* TIE TO EXISTING MEDIAN CURB & GUTTER MATCH EXISTING ELEVATIONS

(XXXX.XX) = VERIFIED ELEVATION

CL Tangent Table		
ID	BEARING	LENGTH
T1	N74°58'41"E	3070.38'

MEDIAN Tangent Table		
ID	BEARING	LENGTH
MT3	N74°58'41"E	1033.60'

MEDIAN Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
MC3	50.88'	50.00'	58°18'31"	27.89'
MC4	66.64'	200.00'	19°05'28"	33.63'
MC5	66.64'	200.00'	19°05'28"	33.63'

CURB Tangent Table		
ID	BEARING	LENGTH
T10	N74°58'41"E	150.00'
T11	N74°58'41"E	676.78'
T12	N74°58'41"E	129.57'

CURB Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C10	69.44'	300.00'	13°15'41"	34.87'
C11	34.72'	150.00'	13°15'41"	17.44'

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.

NOTES

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KEYED GENERAL NOTES

[1] INSTALL 6' CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
[2] INSTALL WHEELCHAIR RAMP AS PER DETAIL SHEET 6
[3] STD. CURB & GUTTER PER STD. DWG. 2415A
[4] MEDIAN CURB & GUTTER PER STD. DWG. 2415B
[5] EXTRUDED ASPHALT CURB PER STD. DWG. 2415B
[6] BUILD 6' SIDEWALK PER STD. DWG. 2430
[7] BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 5' MIN. WIDTH F-F AS SHOWN ON PLANS. COLOR TO BE DETERMINED BY CITY PROJECT MANAGER. MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT PER COA STD DWG 2408 & 2502
[8] FOR STRIPING PLAN SEE SHEET 13

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

AS-BUILT INFORMATION
CONTRACTOR FRANCHINI'S EARTHMOVING DATE 09/09
WORK STAKED BY Cartesian Surveys DATE 1/09-9/09
INSPECTOR'S ACCEPTANCE BY COA DATE 09/09
FIELD VERIFICATION BY Cartesian Surveys DATE 8/09
DRAWINGS CORRECTED BY FRANCHINI'S CARTESIAN DATE 09/09
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
YOLANDA PADILLA MOYA, NEW MEXICO, 16035, LICENSED PROFESSIONAL ENGINEER
10-28-08

NO.	DATE	REMARKS	BY
1	11-09	AS-BUILT INFORMATION	YM

REVISIONS

DESIGN
DESIGNED BY YPM / BCP DATE 08/2008
DRAWN BY ARR / SAR DATE 08/2008
CHECKED BY YPM DATE 08/2008

Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
PAVING PLAN
CENTRAL AVENUE STA 17+00 - STA 27+00

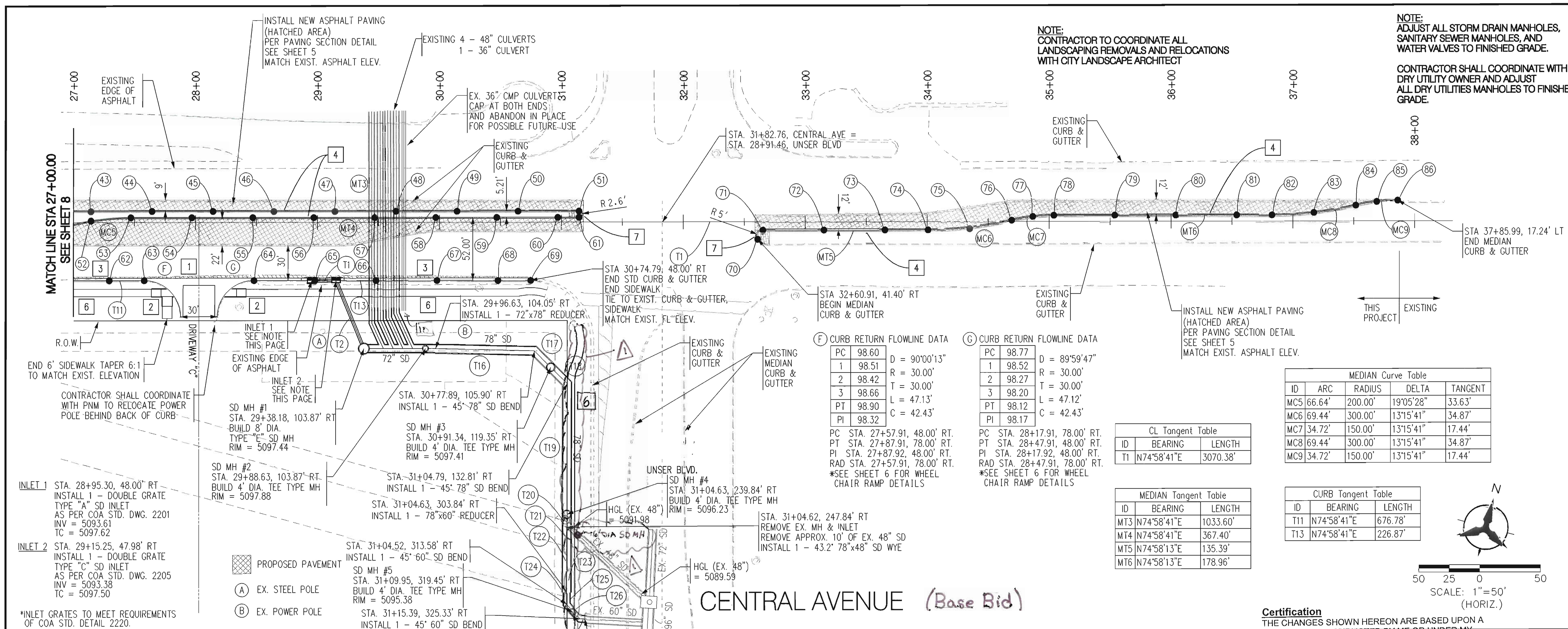
DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 735684
ZONE MAP NO. K-9 K-10
SHEET 8 OF 29

P:\090147\cdp\pnp\090147pnpp2.dgn
Mon, 20-OCT-2008 - 09:46AM, Plotted by: aromero

BHI JOB NO. 090147

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



Ⓕ CURB RETURN FLOWLINE DATA

PC	98.60
1	98.51
2	98.42
3	98.66
PT	98.90
PI	98.32

D = 90°00'13"
R = 30.00'
T = 30.00'
L = 47.13'
C = 42.43'

PC STA. 27+57.91, 48.00' RT.
PT STA. 27+87.91, 78.00' RT.
PI STA. 27+87.92, 48.00' RT.
RAD STA. 27+57.91, 78.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

Ⓖ CURB RETURN FLOWLINE DATA

PC	98.77
1	98.52
2	98.27
3	98.20
PT	98.12
PI	98.17

D = 89°59'47"
R = 30.00'
T = 30.00'
L = 47.12'
C = 42.43'

PC STA. 28+17.91, 78.00' RT.
PT STA. 28+47.91, 48.00' RT.
PI STA. 28+17.92, 48.00' RT.
RAD STA. 28+47.91, 78.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

CL Tangent Table

ID	BEARING	LENGTH
T1	N74°58'41"E	3070.38'

MEDIAN Tangent Table

ID	BEARING	LENGTH
MT3	N74°58'41"E	1033.60'
MT4	N74°58'41"E	367.40'
MT5	N74°58'13"E	135.39'
MT6	N74°58'13"E	178.96'

MEDIAN Curve Table

ID	ARC	RADIUS	DELTA	TANGENT
MC5	66.64'	200.00'	19°05'28"	33.63'
MC6	69.44'	300.00'	13°15'41"	34.87'
MC7	34.72'	150.00'	13°15'41"	17.44'
MC8	69.44'	300.00'	13°15'41"	34.87'
MC9	34.72'	150.00'	13°15'41"	17.44'

CURB Tangent Table

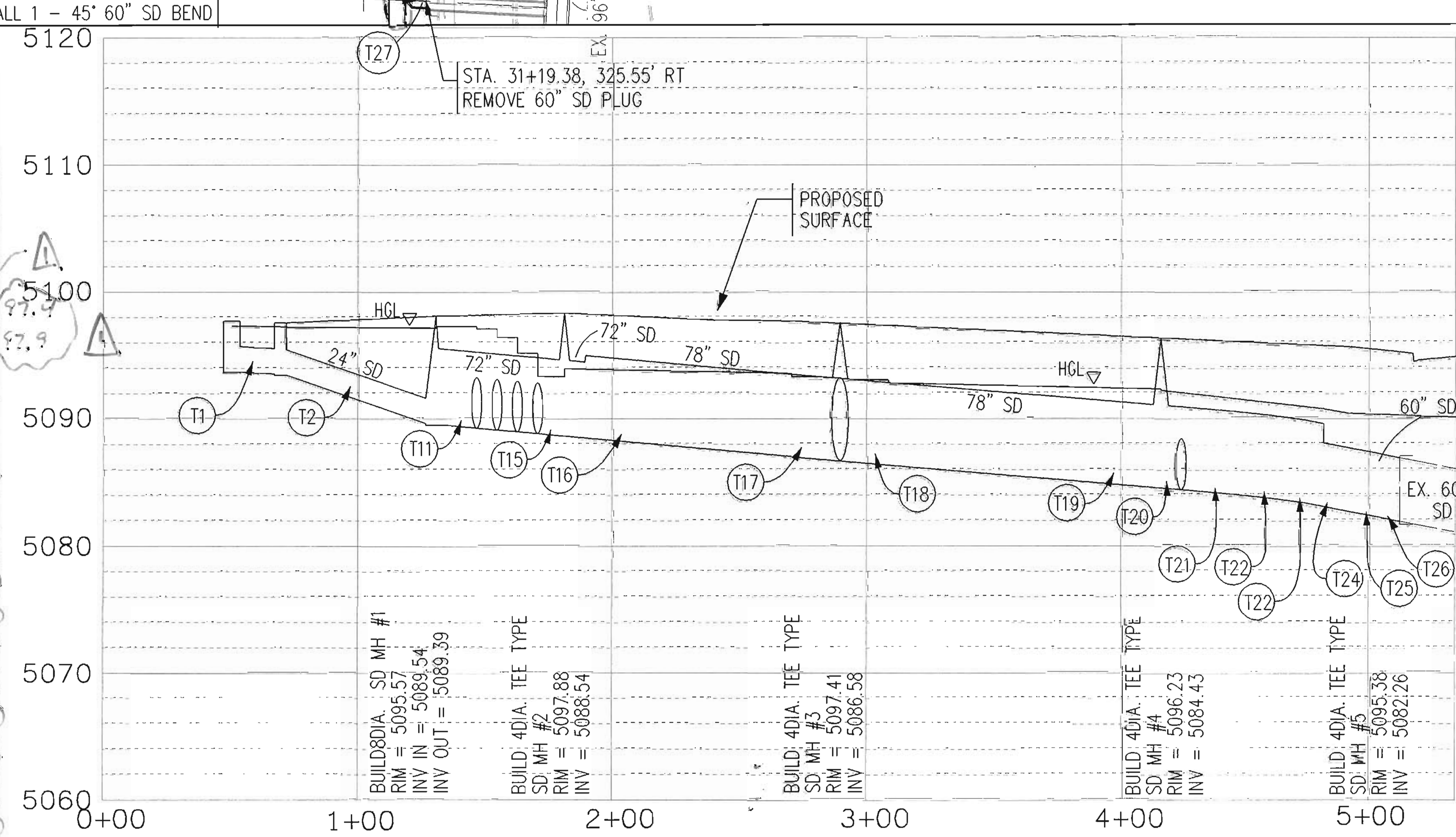
ID	BEARING	LENGTH
T11	N74°58'41"E	676.78'
T13	N74°58'41"E	226.87'

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.

Point Table

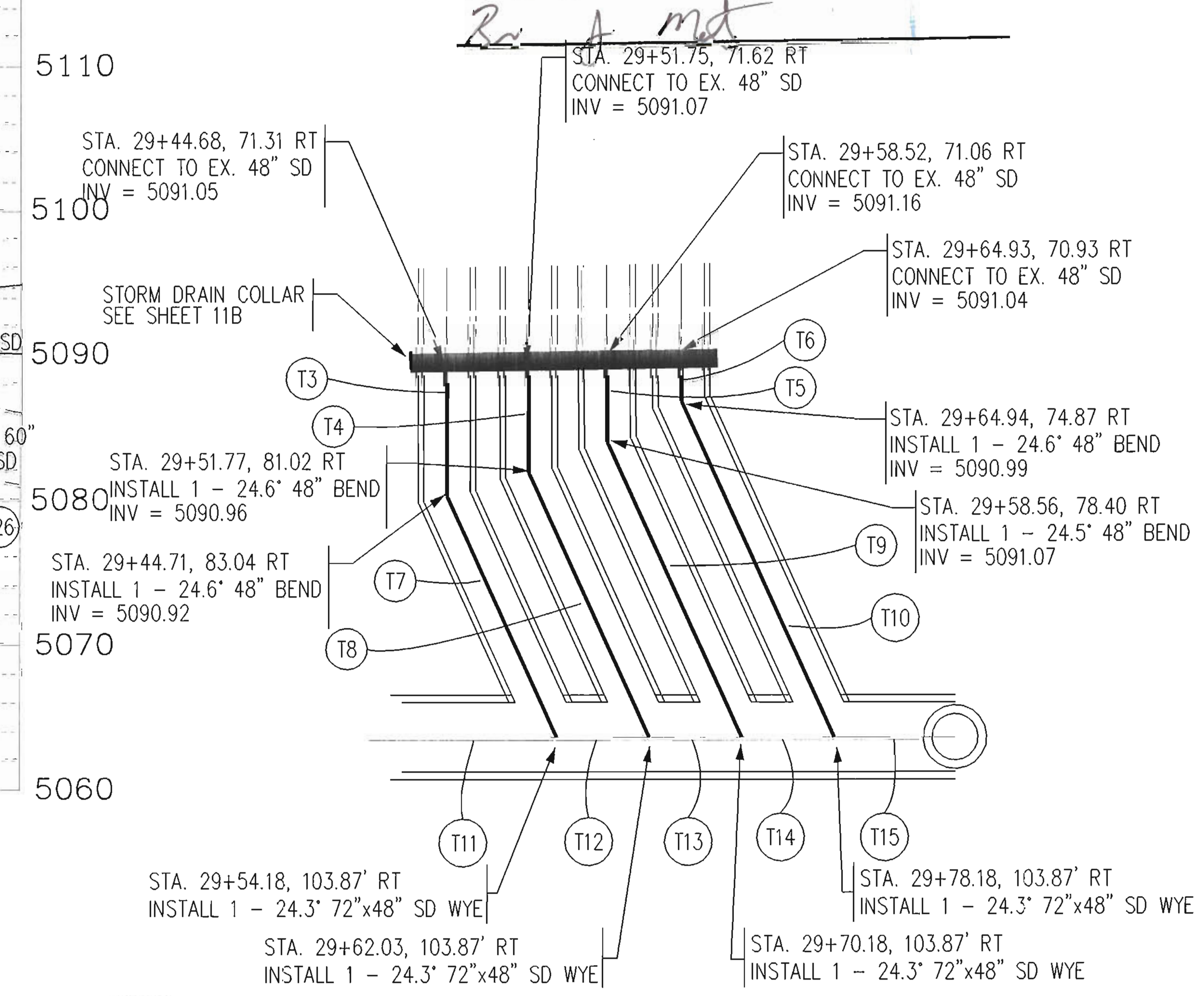
○	STATION	OFFSET	ELEVATION	○	STATION	OFFSET	ELEVATION
43	27+14.35	9.21' LT	5100.73	65	28+97.91	48.00' RT	5097.57
44	27+64.35	9.21' LT	5100.23	66	29+47.91	48.00' RT	5097.28
45	28+14.35	9.21' LT	5099.85	67	29+97.91	48.00' RT	97.4 5097.18
46	28+64.35	9.21' LT	5099.51	68	30+47.91	48.00' RT	97.5 5097.09
47	29+14.35	9.21' LT	5099.32	69	30+74.79	48.00' RT	MATCH EX. 97.4
48	29+64.35	9.21' LT	5099.09	* 70	32+60.91	14.40' RT	MATCH EX. 97.9
49	30+14.35	9.21' LT	5098.69	71	32+65.19	6.83' RT	5097.67
50	30+64.35	9.21' LT	5098.47	72	33+15.19	6.82' RT	97.8 5097.67
51	31+14.35	9.21' LT	5098.23	73	33+65.19	6.82' RT	5097.67
52	27+14.24	1.31' LT	5099.78	74	34+00.58	6.81' RT	5097.68
53	27+46.95	4.00' LT	00.0 5099.71	75	34+34.89	4.84' RT	5097.68
54	27+96.95	4.00' LT	99.6 5099.43	76	34+69.21	1.15' LT	5097.60
55	28+46.95	4.00' LT	99.4 5099.14	77	34+86.51	4.20' LT	5097.44
56	28+96.95	4.00' LT	5099.13	78	35+03.81	5.20' LT	5097.36
57	29+46.95	4.00' LT	5098.96	79	35+53.81	5.21' LT	5097.24
58	29+96.95	4.00' LT	98.7 5098.55	80	36+03.81	5.21' LT	5097.14
59	30+46.95	4.00' LT	5098.60	81	36+53.81	5.22' LT	5097.05
60	30+96.95	4.00' LT	5098.41	82	36+82.76	5.23' LT	5097.01
61	31+14.35	4.00' LT	5098.38	83	37+17.16	7.21' LT	5096.93
62	27+29.23	48.00' RT	5098.69	84	37+51.58	13.23' LT	5096.66
63	27+57.91	48.00' RT	5098.54	85	37+68.79	16.25' LT	5096.52
64	28+47.91	48.00' RT	98.3 5098.12	* 86	37+85.99	17.24' LT	MATCH EX. 96.4

* TIE TO EXISTING MEDIAN CURB & GUTTER MATCH EXISTING ELEVATIONS



SD Tangent Table

ID	BEARING	LENGTH	SIZE	SLOPE	Vel.	HGL(in)
T1	N73°55'06"E	20.00'	24"	1.00%	2.12	5097.45
T2	S37°19'32"E	60.30'	24"	7.01%	3.21	5097.34
T3	S15°07'42"E	11.73'	48"	1.09%	4.97	5097.43
T4	S15°09'36"E	9.40'	48"	1.18%	5.41	5097.34
T5	S15°22'27"E	7.34'	48"	1.21%	7.00	5097.02
T6	S15°10'40"E	3.93'	48"	1.26%	9.83	5096.23
T7	S39°28'19"E	22.88'	48"	7.64%	4.97	5097.39
T8	S39°29'49"E	25.11	48"	7.69%	5.41	5097.30
T9	S39°32'04"E	28.00'	48"	7.82%	7.00	5096.94
T10	S39°32'48"E	31.88'	48"	7.08%	9.83	5096.07
T11	N74°58'16"E	16.00'	72"	1.83%	0.36	5097.34
T12	N74°58'16"E	8.00'	72"	1.83%	2.57	5097.24
T13	N74°58'16"E	8.00'	72"	1.83%	4.97	5096.84
T14	N74°58'16"E	8.00'	72"	1.83%	8.09	5095.84
T15	N74°58'16"E	10.46'	72"	1.83%	12.45	5093.53
T16	N76°16'55"E	81.28'	78"	1.83%	10.61	5093.39
T17	S60°01'19"E	19.02'	78"	1.73%	10.61	5093.65
T18	S60°01'19"E	19.02'	78"	1.73%	10.61	5093.23
T19	S14°56'05"E	104.05'	78"	1.70%	10.61	5093.06
T20	S14°56'05"E	8.00'	78"	1.71%	10.61	5092.26
T21	S14°56'05"E	28.00'	78"	1.71%	6.74	5092.13
T22	S14°56'05"E	16.00'	78"	2.16%	6.74	5092.06
T23	S14°56'05"E	12.00'	78"	2.83%	6.74	5092.01
T24	S14°56'05"E	8.00'	78"	3.89%	6.74	5091.97
T25	S14°56'05"E	9.74'	60"	3.89%	11.39	5090.61
T26	S57°48'00"E	16.00'	60"	3.89%	11.39	5090.28
T27	N78°14'22"E	4.00'	60"	3.89%	11.39	5090.12



STORM DRAIN MANIFOLD
NOT TO SCALE

**ALL SD OFFSETS BASED OFF CENTRAL AVE. ALIGNMENT

STORM DRAIN ONLY

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415A (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED GENERAL NOTES

[1] INSTALL 6' CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
[2] INSTALL WHEELCHAIR RAMP AS PER DETAIL SHEET 6
[3] STD. CURB & GUTTER PER STD. DWG. 2415A
[4] MEDIAN CURB & GUTTER PER STD. DWG. 2415B
[5] EXTRUDED ASPHALT CURB PER STD. DWG. 2415B
[6] BUILD 6' SIDEWALK PER STD. DWG. 2430
[7] BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 5' MIN. WIDTH F-F AS SHOWN ON PLANS. COLOR TO BE DETERMINED BY CITY PROJECT MANAGER. MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT PER COA STD DWG 2408 & 2502
[8] FOR STRIPING PLAN SEE SHEET 13
[16] CONTRACTOR SHALL POTHOLE GASLINE AND PROVIDE TOP OF PIPE ELEVATIONS AND PROVIDE TO ENGINEER PRIOR TO STORM DRAIN INSTALLATION TO INSURE NO CONFLICTS OCCUR

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

AS-BUILT INFORMATION — CONTRACTOR, STAKED BY Cartesian Surveys Inc., INSPECTOR'S ACCEPTANCE BY, FIELD VERIFICATION BY Cartesian Surveys Inc., DRAWINGS CORRECTED BY

MICRO-FILM INFORMATION — RECORDED BY, NO., DATE

BENCH MARKS — ACS ALUMINUM DISC STAMPED "14-K9 2002" GEOGRAPHIC POSITION (NAD 83) N.M. STATE PLANE COORDINATES (CENTRAL ZONE) N=1482352.731 E=1496702.894 GROUND TO GRID = 0.999682780 DELTA ALPHA = -00°16'33.63" NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION — FIELD NOTES, NO., BY, DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	11-09	AS-BUILT INFORMATION	
		REVISIONS	
		DESIGN	YPM	DATE 08/2008

DESIGNED BY YPM / BCP — DATE 08/2008
DRAWN BY ARR / SAR — DATE 08/2008
CHECKED BY YPM — DATE 08/2008

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
PAVING PLAN
CENTRAL AVENUE STA 27+00 - STA 38+00

DESIGN REVIEW COMMITTEE — APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL — APPROVED OCT 31 2008 CITY ENGINEER
LAST DESIGN UPDATE — MO./DAY/YR. — MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	9	29

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

BHI JOB NO. 090147

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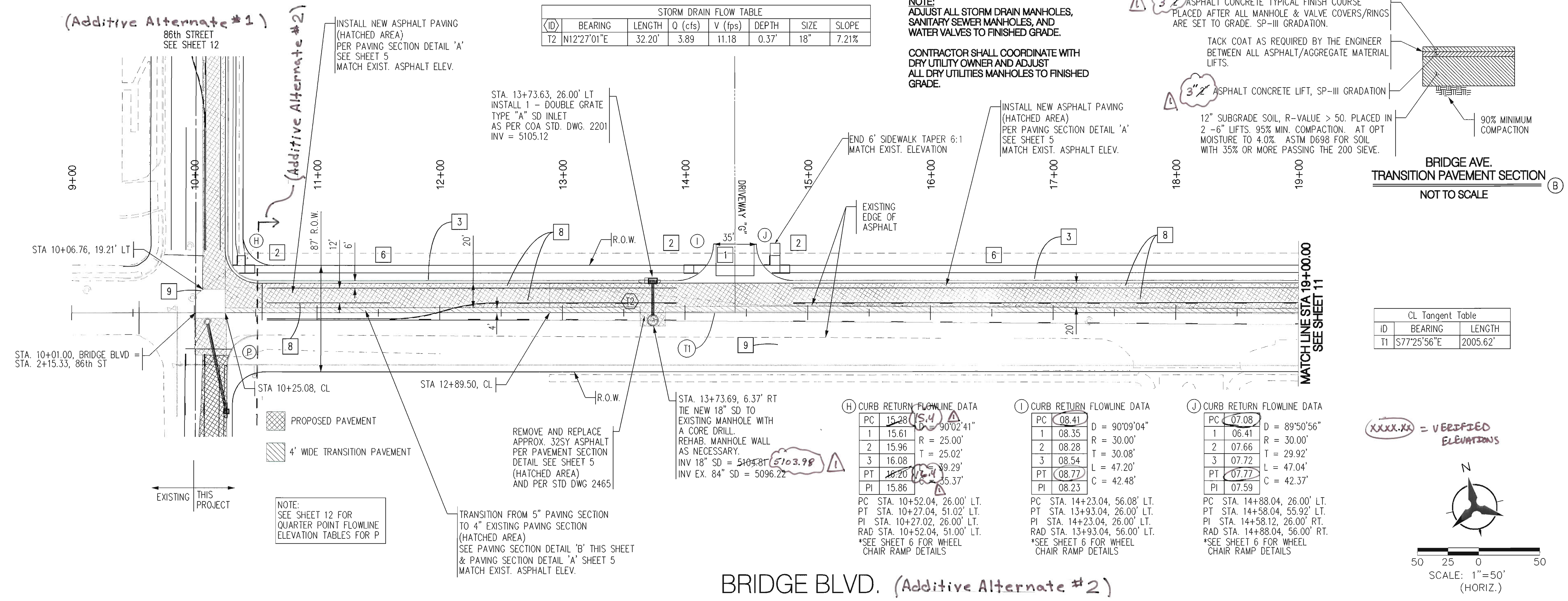


STORM DRAIN FLOW TABLE

ID	BEARING	LENGTH	Q (cfs)	V (fps)	DEPTH	SIZE	SLOPE
T2	N12°27'01"E	32.20'	3.89	11.18	0.37'	18"	7.21%

NOTE:
ADJUST ALL STORM DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND WATER VALVES TO FINISHED GRADE.

CONTRACTOR SHALL COORDINATE WITH DRY UTILITY OWNER AND ADJUST ALL DRY UTILITIES MANHOLES TO FINISHED GRADE.

3" 2" ASPHALT CONCRETE TYPICAL FINISH COURSE PLACED AFTER ALL MANHOLE & VALVE COVERS/RINGS ARE SET TO GRADE. SP-III GRADATION.

TACK COAT AS REQUIRED BY THE ENGINEER BETWEEN ALL ASPHALT/AGGREGATE MATERIAL LIFTS.

3" 2" ASPHALT CONCRETE LIFT, SP-III GRADATION

12" SUBGRADE SOIL, R-VALUE > 50. PLACED IN 2 -6" LIFTS. 95% MIN. COMPACTION. AT OPT MOISTURE TO 4.0% ASTM D698 FOR SOIL WITH 35% OR MORE PASSING THE 200 SIEVE.

90% MINIMUM COMPACTION

BRIDGE AVE. TRANSITION PAVEMENT SECTION (B)

NOT TO SCALE

CL Tangent Table

ID	BEARING	LENGTH
T1	S77°25'56"E	2005.62'

(H) CURB RETURN FLOWLINE DATA

PC	15.28 (15.4)
1	15.61
2	15.96
3	16.08
PT	16.20 (16.4)
PI	15.86

D = 90°02'41"
R = 25.00'
T = 25.02'
L = 39.29'
C = 35.37'

PC STA. 10+52.04, 26.00' LT.
PT STA. 10+27.04, 51.02' LT.
PI STA. 10+27.02, 26.00' LT.
RAD STA. 10+52.04, 51.00' LT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

(I) CURB RETURN FLOWLINE DATA

PC	08.41
1	08.35
2	08.28
3	08.54
PT	08.77
PI	08.23

D = 90°09'04"
R = 30.00'
T = 30.08'
L = 47.20'
C = 42.48'

PC STA. 14+23.04, 56.08' LT.
PT STA. 13+93.04, 26.00' LT.
PI STA. 14+23.04, 26.00' LT.
RAD STA. 13+93.04, 56.00' LT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

(J) CURB RETURN FLOWLINE DATA

PC	07.08
1	06.41
2	07.66
3	07.72
PT	07.77
PI	07.59

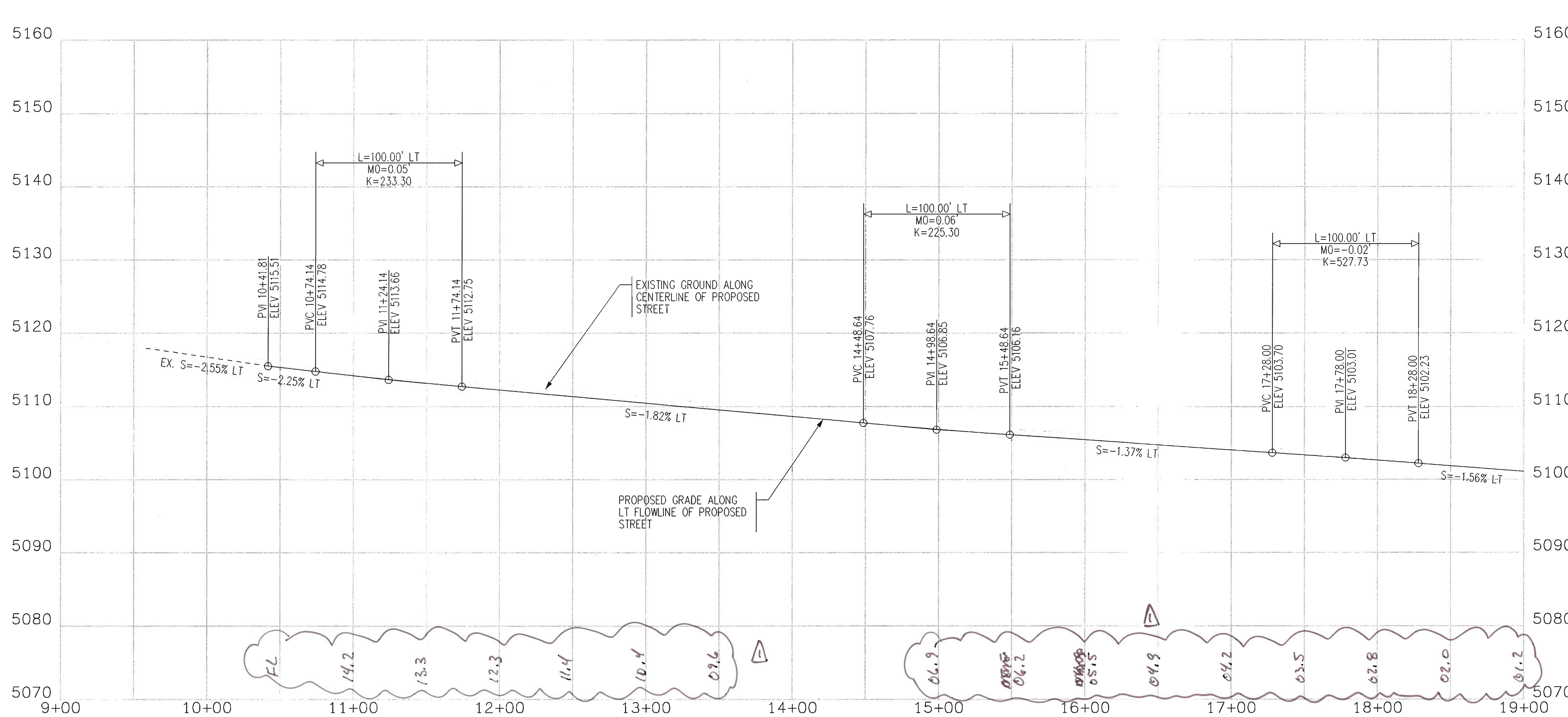
D = 89°50'56"
R = 30.00'
T = 29.92'
L = 47.04'
C = 42.37'

PC STA. 14+88.04, 26.00' LT.
PT STA. 14+58.04, 55.92' LT.
PI STA. 14+58.12, 26.00' RT.
RAD STA. 14+88.04, 56.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

(XXXX.XX) = VERIFIED ELEVATIONS

N

50 25 0 50
SCALE: 1"=50' (HORIZ.)



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.

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
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9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415A (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926. 650 SUBPART P.

KEYED GENERAL NOTES

1. INSTALL 6' CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2. INSTALL WHEELCHAIR RAMP AS PER DETAIL SHEET 6
3. STD. CURB & GUTTER PER STD. DWG. 2415A
4. MEDIAN CURB & GUTTER PER STD. DWG. 2415B
5. EXTRUDED ASPHALT CURB PER STD. DWG. 2415B
6. BUILD 6' SIDEWALK PER STD. DWG. 2430
7. BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 5' MIN. WIDTH F-F AS SHOWN ON PLANS. COLOR TO BE DETERMINED BY CITY PROJECT MANAGER. MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT PER COA STD DWG 2408 & 2502
8. FOR STRIPING PLAN SEE SHEET 13
9. UTILITY CONNECTIONS DETAILED UNDER COA WO #735661. ALL UTILITY CONNECTIONS SHALL BE INSTALLED PRIOR TO COMPLETION OF PAVING. CONTRACTOR SHALL COORDINATE WITH ONSITE UTILITY CONTRACTOR PRIOR TO PAVING IN BRIDGE BLVD.

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

AS-BUILT INFORMATION: CONTRACTOR; WORK STAKED BY Cartesian Surveys Inc.; INSPECTOR'S ACCEPTANCE BY; FIELD VERIFICATION BY Cartesian Surveys Inc.; DRAWINGS CORRECTED BY; DATE 09/09

MICRO-FILM INFORMATION: RECORDED BY; NO.; DATE

BENCH MARKS: ACS ALUMINUM DISC STAMPED "14-K9 2002"; GEOGRAPHIC POSITION (NAD 83); N.M. STATE PLANE COORDINATES (CENTRAL ZONE); N=1482352.731 E=1496702.894; GROUND TO GRID = 0.999682780; DELTA ALPHA = -00°16'33.63"; NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION: FIELD NOTES; NO.; BY; DATE

ENGINEER'S SEAL: NEW MEXICO 16035 PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	11-09	AS-BUILT INFORMATION	YM

REVISIONS

DESIGN		
DESIGNED BY	YPM / BCP	DATE 08/2008
DRAWN BY	ARR / SAR	DATE 08/2008
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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
PAVING PLAN & PROFILE
BRIDGE BLVD. STA 9+00 - STA 19+00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	10	29

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

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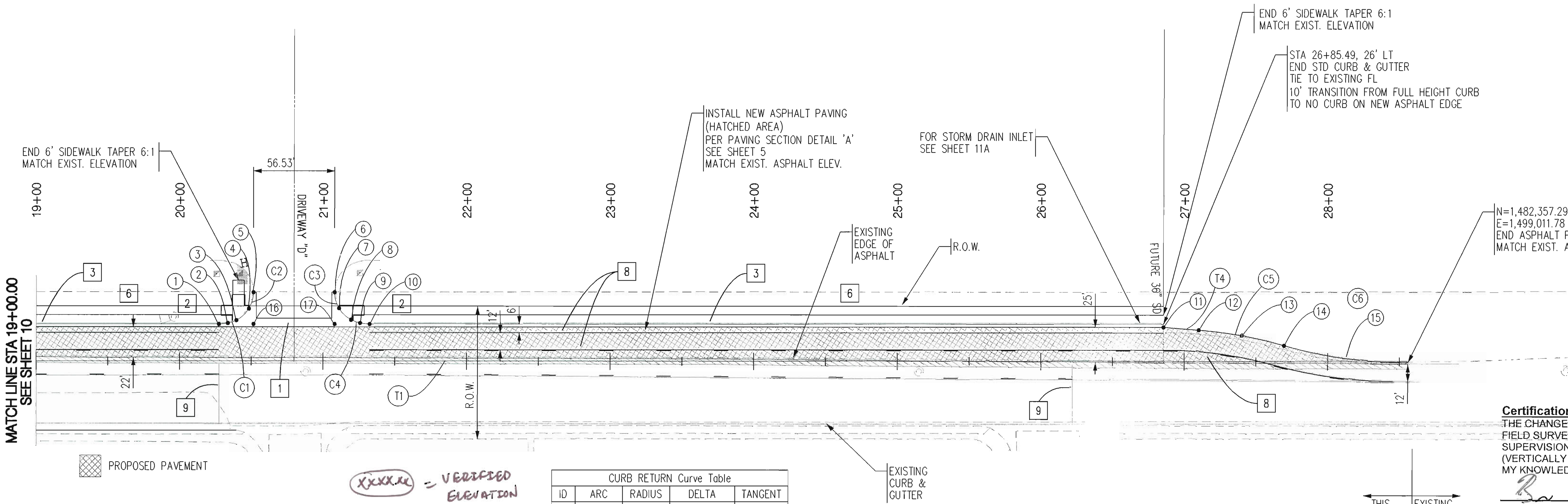
Mon, 20-OCT-2008 - 09:47AM, Plotted by: aromero



NOTE:
ADJUST ALL STORM DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND WATER VALVES TO FINISHED GRADE.

CONTRACTOR SHALL COORDINATE WITH DRY UTILITY OWNER AND ADJUST ALL DRY UTILITIES MANHOLES TO FINISHED GRADE.

PROPOSED PAVEMENT

(XXXX.XX) = VERIFIED ELEVATION

CURB RETURN Point Table			
○	STATION	OFFSET	ELEVATION
1	20+27.37	26.00' LT	5099.12
2	20+33.62	26.66' LT	5099.03
3	20+39.60	28.61' LT	5098.94
4	20+48.28	36.69' LT	5098.98
5	20+51.48	48.12' LT	5099.31
6	21+08.02	48.23' LT	5098.45

CURB RETURN Point Table			
○	STATION	OFFSET	ELEVATION
7	21+11.08	37.03' LT	5098.12
8	21+19.41	28.94' LT	5097.82
9	21+25.72	26.75' LT	5097.66
10	21+32.37	26.00' LT	5097.50
16	20+51.48	26.00' LT	5098.74
17	21+08.02	26.00' LT	5097.87

CURB RETURN Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C1	12.60'	30.00'	24°03'31"	6.39'
C2	24.03'	21.95'	62°42'03"	13.38'
C3	23.20'	22.03'	61°07'50"	13.01'
C4	13.40'	30.00'	25°35'34"	6.81'

CL Tangent Table		
ID	BEARING	LENGTH
T1	S77°25'56"E	2005.62'

PAVEMENT Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C5	60.53'	303.00'	11°26'46"	30.37'
C6	87.60'	300.00'	16°43'53"	44.12'

PAVEMENT Tangent Table		
ID	BEARING	LENGTH
T3	S72°47'02"E	24.64'

PAVEMENT Point Table			
○	STATION	OFFSET	ELEVATION
11	26+85.49	24.00' LT	5091.44 (91.6)
12	27+10.04	22.00' LT	5091.43
13	27+40.04	18.05' LT	5091.26
14	27+69.49	11.12' LT	5091.15
15	28+12.31	2.09' LT	5090.89

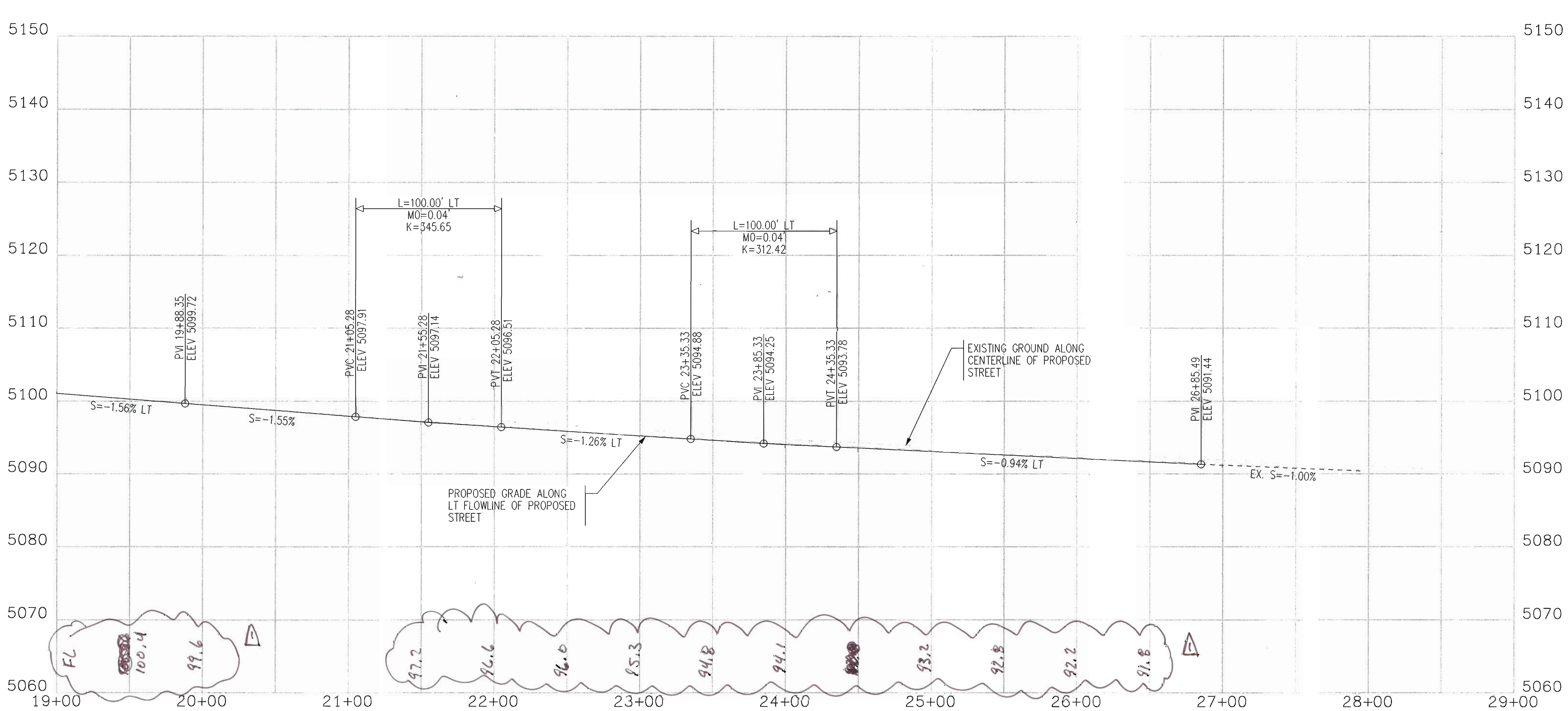
THIS PROJECT | EXISTING

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

SCALE: 1"=50' (HORIZ.)

BRIDGE BLVD.
(Additive Alternate #2)



NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
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9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415A (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED GENERAL NOTES

[1] INSTALL 6' CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
[2] INSTALL WHEELCHAIR RAMP AS PER DETAIL SHEET 6
[3] STD. CURB & GUTTER PER STD. DWG. 2415A
[4] MEDIAN CURB & GUTTER PER STD. DWG. 2415B
[5] EXTRUDED ASPHALT CURB PER STD. DWG. 2415B
[6] BUILD 6' SIDEWALK PER STD. DWG. 2430
[7] BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 5' MIN. WIDTH F-F AS SHOWN ON PLANS. COLOR TO BE DETERMINED BY CITY PROJECT MANAGER. MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT PER COA STD DWG 2408 & 2502
[8] FOR STRIPING PLAN SEE SHEET 13
[9] UTILITY CONNECTIONS DETAILED UNDER COA WO #735661. ALL UTILITY CONNECTIONS SHALL BE INSTALLED PRIOR TO COMPLETION OF PAVING. CONTRACTOR SHALL COORDINATE WITH ONSITE UTILITY CONTRACTOR PRIOR TO PAVING IN BRIDGE BLVD.

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

AS-BUILT INFORMATION
CONTRACTOR / WORK STAKED BY Cartesian Surveys Inc. / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY Cartesian Surveys Inc. / DRAWINGS CORRECTED BY

MICRO-FILM INFORMATION
RECORDED BY / NO. / DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES / NO. / BY / DATE

ENGINEER'S SEAL

REVISIONS
NO.	DATE	REMARKS	BY
1	11-09	AS-BUILT INFORMATION	YM

DESIGN
DESIGNED BY YPM / BCP DATE 08/2008
DRAWN BY ARR / SAR DATE 08/2008
CHECKED BY YPM DATE 08/2008

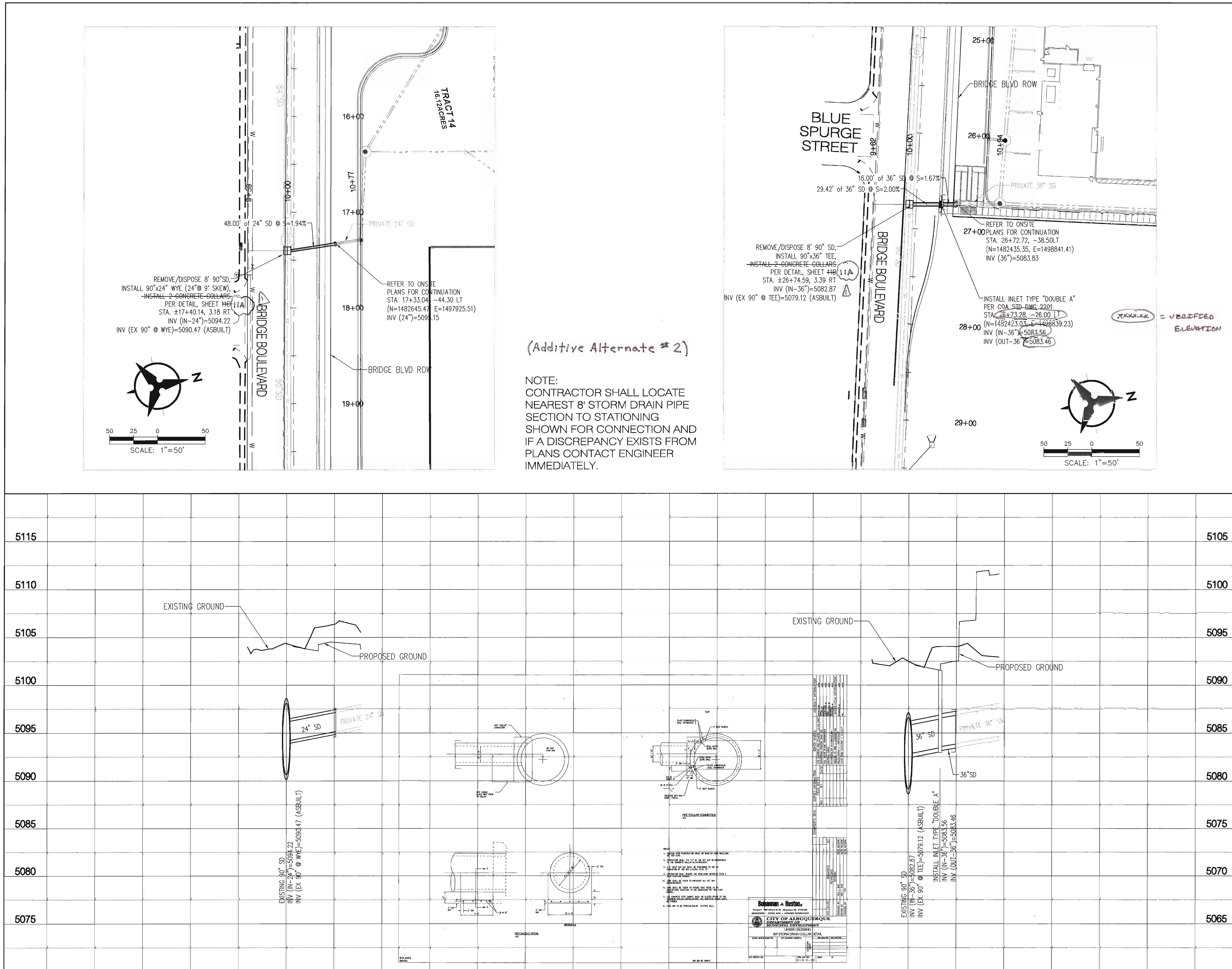
Bohannan Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING · SPATIAL DATA · ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
PAVING PLAN & PROFILE
BRIDGE BLVD. STA 19+00 - STA 28+50

DESIGN REVIEW COMMITTEE — APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL — APPROVED OCT 31 2008 CITY ENGINEER
LAST DESIGN UPDATE

CITY PROJECT NO. 735684 | ZONE MAP NO. K-9 K-10 | SHEET 11 OF 29



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Tue, 21-Oct-2008 – 8:33:am, Plotted by: BWARREN

BHI JOB NO. 090147

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

AS-BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY Cartesian Surveys Inc. — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO. — DATE

BENCH MARKS

ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

BRUCE J. STIDWORTHY, NEW MEXICO, 14522, REGISTERED PROFESSIONAL ENGINEER — 10/21/08

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.

NO.	DATE	REMARKS	BY
A	11-09	AS-BUILT INFORMATION	SM

REVISIONS

DESIGN	
DESIGNED BY: BW/MB	DATE 07/2008
DRAWN BY: BW	DATE 07/2008
CHECKED BY: BJS	DATE 08/2008

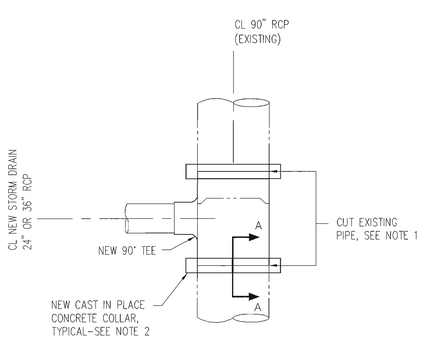
Bohannan ▲ Huston INC.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
BRIDGE BOULEVARD STORM DRAIN
PLAN AND PROFILE

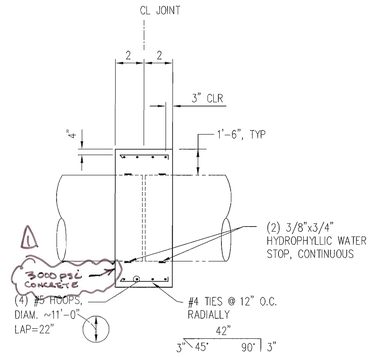
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER			

City Project No.	Zone Map No.	Sheet	Of
735684	K-9 K-10	11A	29



PLAN

NOT USED
SEE DETAIL
SHEET 11A



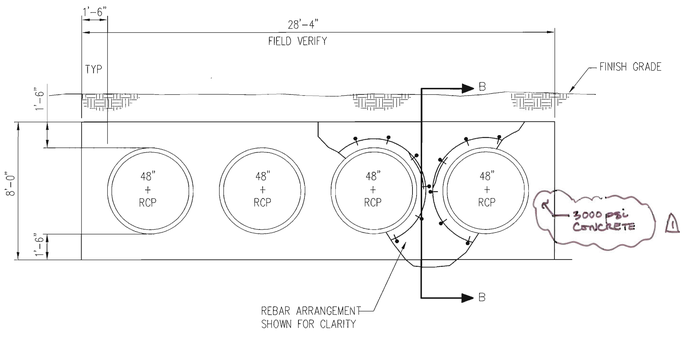
SECTION A-A

NOTE:

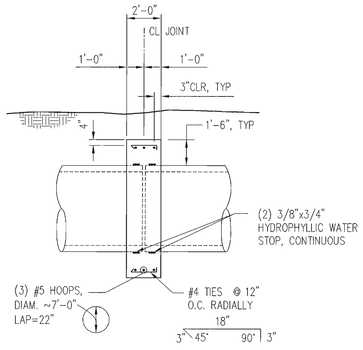
1. CONTRACTOR SHALL PROVIDE ASSURANCES THAT THE REMAINING RCP IS SUPPORTED TO PREVENT JOINT DEFLECTIONS.

2. INSPECTION IS REQUIRED PRIOR TO CONCRETE PLACEMENT.

PIPE "COLLAR" CONNECTION (BRIDGE)
NTS
(Additive Alternate # 2)



ELEVATION



SECTION B-B

PIPE CONNECTION ENCASEMENT (CENTRAL)
NTS
(Base Bid)

AS-BUILT INFORMATION
CONTRACTOR Bohannan Huston DATE 07/08
MARKED BY Cartesian Surveys Inc. DATE 10-31-08
INSPECTOR'S ACCEPTANCE BY Cartesian Surveys Inc. DATE 10/31/08
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 10/31/08
DRAWINGS CORRECTED BY Cartesian Surveys Inc. DATE 07/08

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
NM STATE PLANE COORDINATES (CENTRAL ZONE)
X=1482352.731 Y=1496702.894
GROUND TO GRID FACTOR = 0.999682780
DELAT ALPHA = -00° 16' 33.63"
NAVD 1988 ELEVATION = 5118.017

MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
NEW MEXICO 17400 REGISTERED PROFESSIONAL ENGINEER
SEAN M. MELVILLE
10-20-08

NO.	DATE	BY	REMARKS
1	11-09	YM	AS-BUILT INFORMATION

REVISIONS
DESIGN
DESIGNED BY BW/MB DATE 07/2008
DRAWN BY BW DATE 07/2008
CHECKED BY BJS DATE 08/2008

Bohannan Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF
MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE – UNSER CROSSING
STORM DRAIN COLLAR DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	DRAWING NO.	SHEET	OF
735684	K-9 K-10		11B	29

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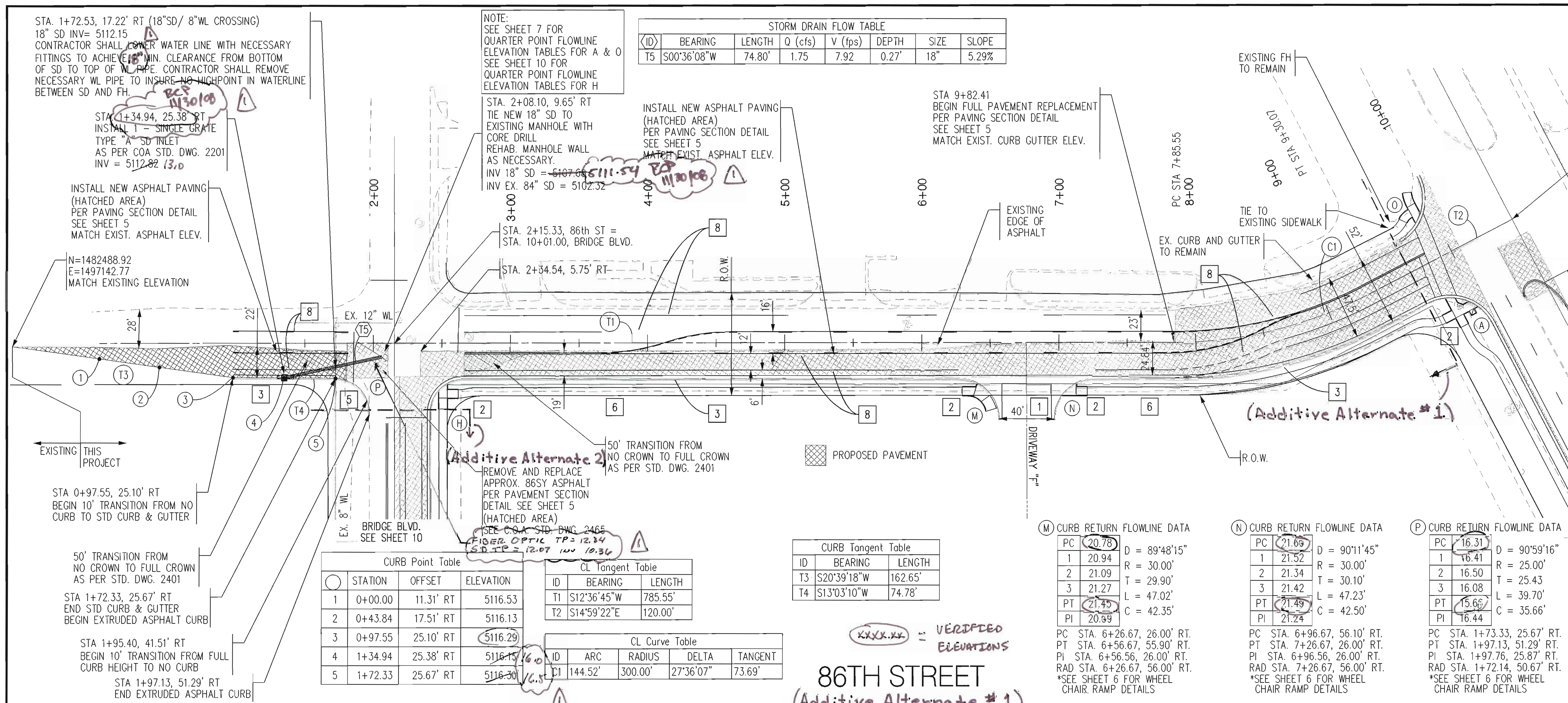
Mon, 20-Oct-2008 - 9:43:am, Plotted by: DMEDINA

RECORD DRAWINGS



STA. 1+72.53, 17.22' RT (18"SD/ 8"WL CROSSING) 18" SD INV= 5112.15
CONTRACTOR SHALL LOWER WATER LINE WITH NECESSARY FITTINGS TO ACHIEVE 18" MIN. CLEARANCE FROM BOTTOM OF SD TO TOP OF WL PIPE. CONTRACTOR SHALL REMOVE NECESSARY WL PIPE TO INSURE NO HIGHPOINT IN WATERLINE BETWEEN SD AND FH.
STA 1+34.94, 25.38' RT INSTALL 1 - SINGLE GRATE TYPE "A" SD INLET AS PER COA STD. DWG. 2201 INV = 5112.82
INSTALL NEW ASPHALT PAVING (HATCHED AREA) PER PAVING SECTION DETAIL SEE SHEET 5 MATCH EXIST. ASPHALT ELEV.
N=1482488.92 E=1497142.77 MATCH EXISTING ELEVATION
NOTE: SEE SHEET 7 FOR QUARTER POINT FLOWLINE ELEVATION TABLES FOR A & O SEE SHEET 10 FOR QUARTER POINT FLOWLINE ELEVATION TABLES FOR H
STA. 2+08.10, 9.65' RT TIE NEW 18" SD TO EXISTING MANHOLE WITH CORE DRILL REHAB. MANHOLE WALL AS NECESSARY. INV 18" SD = 5107.68 INV EX. 84" SD = 5102.32
STA. 2+15.33, 86th ST = STA. 10+01.00, BRIDGE BLVD.
STA. 2+34.54, 5.75' RT
INSTALL NEW ASPHALT PAVING (HATCHED AREA) PER PAVING SECTION DETAIL SEE SHEET 5 MATCH EXIST. ASPHALT ELEV.
STA 9+82.41 BEGIN FULL PAVEMENT REPLACEMENT PER PAVING SECTION DETAIL SEE SHEET 5 MATCH EXIST. CURB GUTTER ELEV.
EXISTING EDGE OF ASPHALT
EXISTING FH TO REMAIN
TIE TO EXISTING SIDEWALK
EX. CURB AND GUTTER TO REMAIN
STA. 10+50.08, 86th ST = STA. 10+01.00, CENTRAL AVE.
NOTE: ADJUST ALL STORM DRAIN MANHOLES, SANITARY SEWER MANHOLES, AND WATER VALVES TO FINISHED GRADE.
CONTRACTOR SHALL COORDINATE WITH DRY UTILITY OWNER AND ADJUST ALL DRY UTILITIES MANHOLES TO FINISHED GRADE.
EX. 12" WL
EXISTING | THIS PROJECT
STA 0+97.55, 25.10' RT BEGIN 10' TRANSITION FROM NO CURB TO STD CURB & GUTTER
50' TRANSITION FROM NO CROWN TO FULL CROWN AS PER STD. DWG. 2401
STA 1+72.33, 25.67' RT END STD CURB & GUTTER BEGIN EXTRUDED ASPHALT CURB
STA 1+95.40, 41.51' RT BEGIN 10' TRANSITION FROM FULL CURB HEIGHT TO NO CURB
STA 1+97.13, 51.29' RT END EXTRUDED ASPHALT CURB
BRIDGE BLVD. SEE SHEET 10
EX. 8" WL
(Additive Alternate 2) REMOVE AND REPLACE APPROX. 86SY ASPHALT PER PAVEMENT SECTION DETAIL SEE SHEET 5 (HATCHED AREA) SEE C.O.A. STD. DWG. 2465
FIBER OPTIC TP = 12.34 SD TP = 12.07 INV 10.36
50' TRANSITION FROM NO CROWN TO FULL CROWN AS PER STD. DWG. 2401
PROPOSED PAVEMENT
DRIVEWAY "F"
R.O.W.
(Additive Alternate #1)
CENTRAL AVE. SEE SHEET 7
(Base Bid)
XXXX.XX = VERIFIED ELEVATIONS
50 25 0 50
SCALE: 1"=50' (HORIZ.)

STORM DRAIN FLOW TABLE							
ID	BEARING	LENGTH	Q (cfs)	V (fps)	DEPTH	SIZE	SLOPE
T5	S00°36'08"W	74.80'	1.75	7.92	0.27'	18"	5.29%

CURB Point Table			
○	STATION	OFFSET	ELEVATION
1	0+00.00	11.31' RT	5116.53
2	0+43.84	17.51' RT	5116.13
3	0+97.55	25.10' RT	5116.29
4	1+34.94	25.38' RT	~~5116.15~~ 16.10
5	1+72.33	25.67' RT	~~5116.30~~ 16.5

CL Tangent Table		
ID	BEARING	LENGTH
T1	S12°36'45"W	785.55'
T2	S14°59'22"E	120.00'

CL Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C1	144.52'	300.00'	27°36'07"	73.69'

CURB Tangent Table		
ID	BEARING	LENGTH
T3	S20°39'18"W	162.65'
T4	S13°03'10"W	74.78'

86TH STREET
(Additive Alternate #1)

(M) CURB RETURN FLOWLINE DATA

PC	20.78
1	20.94
2	21.09
3	21.27
PT	21.45
PI	20.99

D = 89°48'15"
R = 30.00'
T = 29.90'
L = 47.02'
C = 42.35'

PC STA. 6+26.67, 26.00' RT.
PT STA. 6+56.67, 55.90' RT.
PI STA. 6+56.56, 26.00' RT.
RAD STA. 6+26.67, 56.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

(N) CURB RETURN FLOWLINE DATA

PC	21.69
1	21.52
2	21.34
3	21.42
PT	21.49
PI	21.24

D = 90°11'45"
R = 30.00'
T = 30.10'
L = 47.23'
C = 42.50'

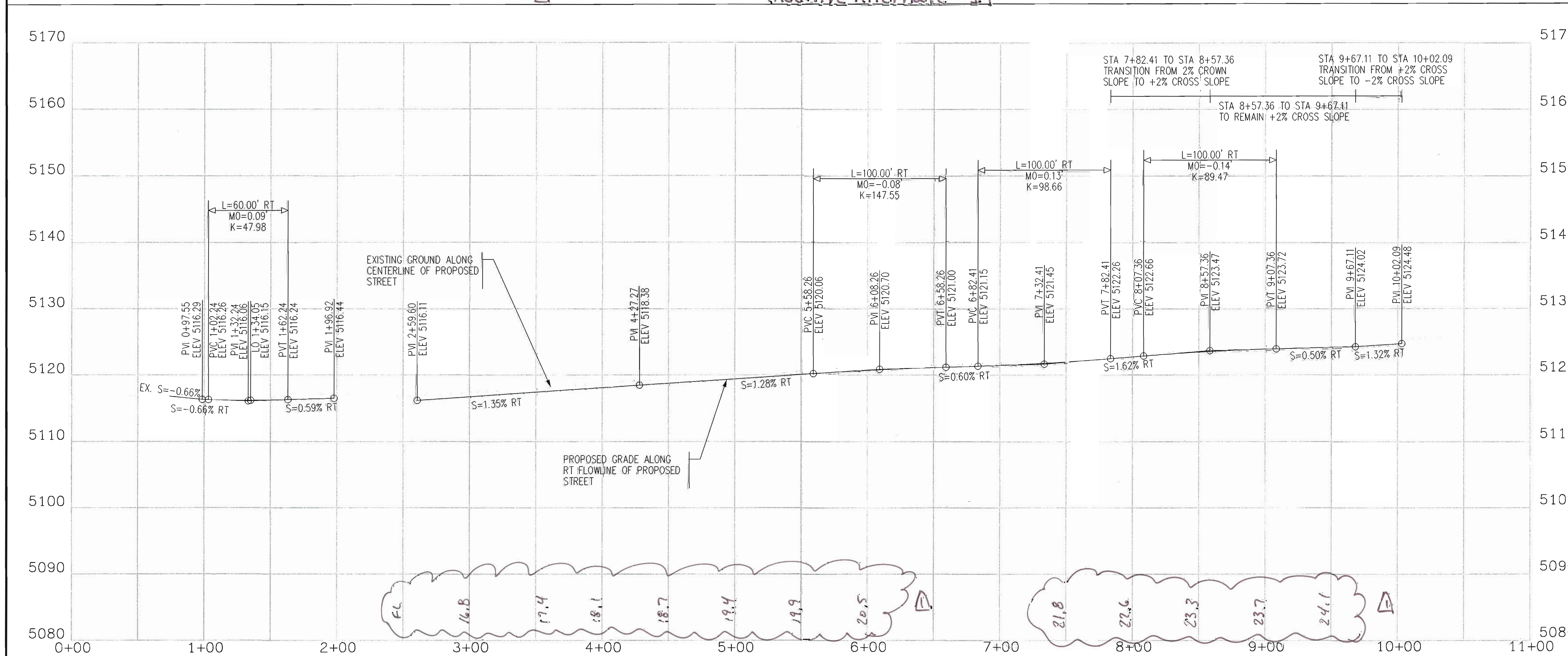
PC STA. 6+96.67, 56.10' RT.
PT STA. 7+26.67, 26.00' RT.
PI STA. 6+96.56, 26.00' RT.
RAD STA. 7+26.67, 56.00' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS

(P) CURB RETURN FLOWLINE DATA

PC	16.31
1	16.41
2	16.50
3	16.08
PT	15.66
PI	16.44

D = 90°59'16"
R = 25.00'
T = 25.43
L = 39.70'
C = 35.66'

PC STA. 1+73.33, 25.67' RT.
PT STA. 1+97.13, 51.29' RT.
PI STA. 1+97.76, 25.87' RT.
RAD STA. 1+72.14, 50.67' RT.
*SEE SHEET 6 FOR WHEEL CHAIR RAMP DETAILS



5170
5160
5150
5140
5130
5120
5110
5100
5090
5080
0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
STA 7+82.41 TO STA 8+57.36 TRANSITION FROM 2% CROWN SLOPE TO +2% CROSS SLOPE
STA 9+67.11 TO STA 10+02.09 TRANSITION FROM +2% CROSS SLOPE TO -2% CROSS SLOPE
STA 8+57.36 TO STA 9+67.11 TO REMAIN +2% CROSS SLOPE
L=60.00' RT MO=0.09 K=47.98
L=100.00' RT MO=-0.08 K=147.55
L=100.00' RT MO=0.13 K=98.66
L=100.00' RT MO=-0.14 K=89.47
EXISTING GROUND ALONG CENTERLINE OF PROPOSED STREET
PROPOSED GRADE ALONG RT FLOWLINE OF PROPOSED STREET
EX. S=-0.66%
S=-0.66% RT
S=0.59% RT
S=1.35% RT
S=1.28% RT
S=0.60% RT
S=1.62% RT
S=0.50% RT
S=1.32% RT

Certification
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GENERAL NOTE:
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NOTES

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3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
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11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415A (SAWCUT ONLY).
12. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APROVAL.
14. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED GENERAL NOTES

1. INSTALL 6' CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2. INSTALL WHEELCHAIR RAMP AS PER DETAIL SHEET 6
3. STD. CURB & GUTTER PER STD. DWG. 2415A
4. MEDIAN CURB & GUTTER PER STD. DWG. 2415B
5. EXTRUDED ASPHALT CURB PER STD. DWG. 2415B
6. BUILD 6' SIDEWALK PER STD. DWG. 2430
7. BUILD 4" TEXTURED MEDIAN PAVEMENT FROM MEDIAN NOSE TO 10' FROM NOSE OR TO 5' MIN. WDTH F-F AS SHOWN ON PLANS. COLOR TO BE DETERMINED BY CITY PROJECT MANAGER. MEDIAN NOSES SHALL BE PAINTED YELLOW TO APPROX. 6' BEHIND PC/PT PER COA STD DWG 2408 & 2502
8. FOR STRIPING PLAN SEE SHEET 13

AS-BUILT INFORMATION
CONTRACTOR / WORK STAKED BY Cartesian Surveys Inc. / INSPECTOR'S ACCEPTANCE BY COA / FIELD VERIFICATION BY Cartesian Surveys Inc. / DRAWINGS CORRECTED BY

MICRO-FILM INFORMATION
RECORDED BY / DATE / NO.

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -0°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION — FIELD NOTES — NO. — BY — DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	4-09	AS-BUILT INFORMATION	YPM

REVISIONS

DESIGN
DESIGNED BY YPM / BCP — DATE 08/2008
DRAWN BY ARR / SAR — DATE 08/2008
CHECKED BY YPM — DATE 08/2008

Bohannan Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
PAVING PLAN & PROFILE
86TH STREET

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 3 1 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 3 1 2008 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	12	29

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

BHI JOB NO. 090147

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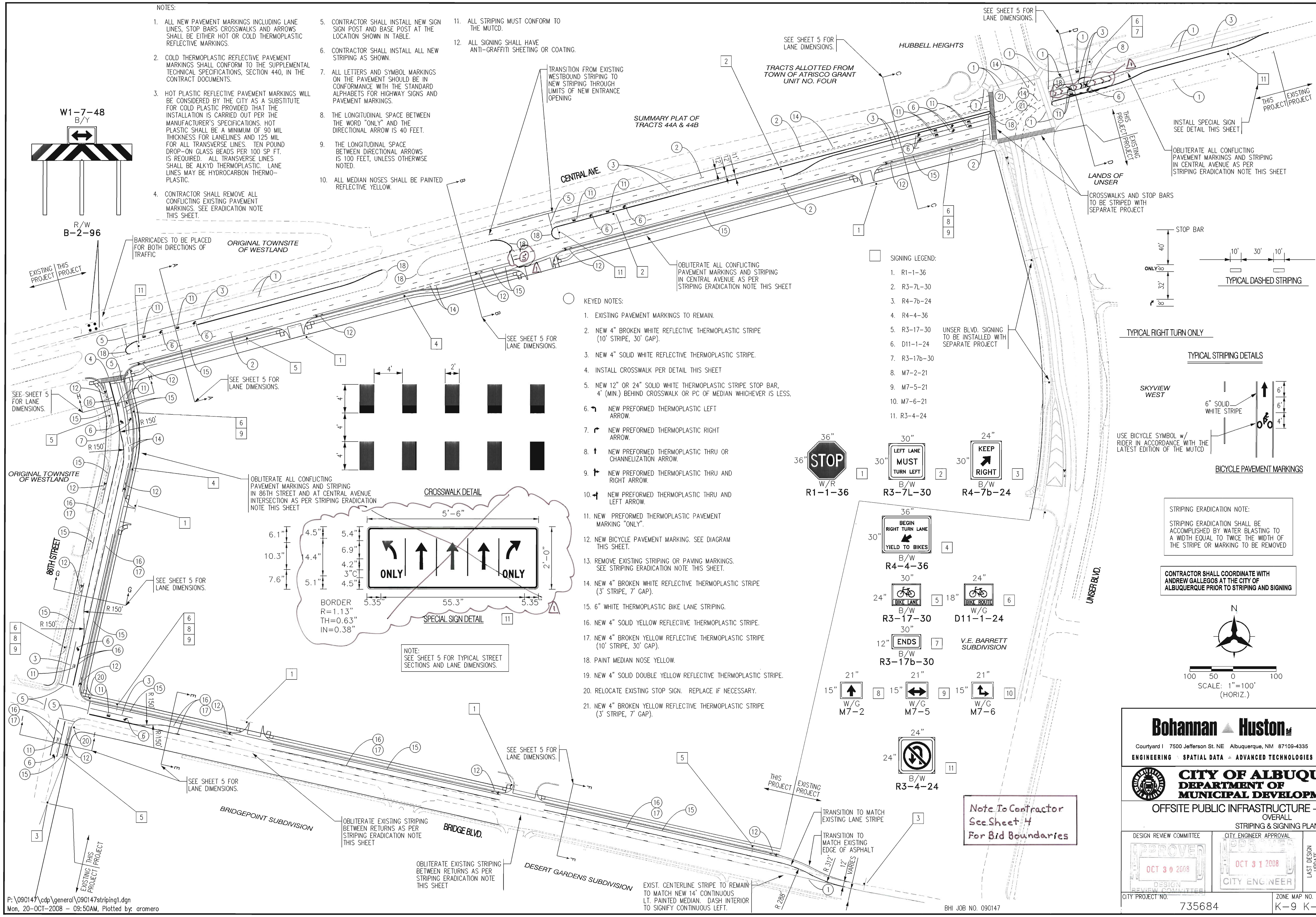
RECORD DRAWINGS

NOTES:

1. ALL NEW PAVEMENT MARKINGS INCLUDING LANE LINES, STOP BARS CROSSWALKS AND ARROWS SHALL BE EITHER HOT OR COLD THERMOPLASTIC REFLECTIVE MARKINGS.
2. COLD THERMOPLASTIC REFLECTIVE PAVEMENT MARKINGS SHALL CONFORM TO THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS, SECTION 440, IN THE CONTRACT DOCUMENTS.
3. HOT PLASTIC REFLECTIVE PAVEMENT MARKINGS WILL BE CONSIDERED BY THE CITY AS A SUBSTITUTE FOR COLD PLASTIC PROVIDED THAT THE INSTALLATION IS CARRIED OUT PER THE MANUFACTURER'S SPECIFICATIONS. HOT PLASTIC SHALL BE A MINIMUM OF 90 MIL THICKNESS FOR LANELINES AND 125 MIL FOR ALL TRANSVERSE LINES. TEN POUND DROP-ON GLASS BEADS PER 100 SP FT. IS REQUIRED. ALL TRANSVERSE LINES SHALL BE ALKYD THERMOPLASTIC. LANE LINES MAY BE HYDROCARBON THERMO-PLASTIC.
4. CONTRACTOR SHALL REMOVE ALL CONFLICTING EXISTING PAVEMENT MARKINGS. SEE ERADICATION NOTE THIS SHEET.
5. CONTRACTOR SHALL INSTALL NEW SIGN SIGN POST AND BASE POST AT THE LOCATION SHOWN IN TABLE.
6. CONTRACTOR SHALL INSTALL ALL NEW STRIPING AS SHOWN.
7. ALL LETTERS AND SYMBOL MARKINGS ON THE PAVEMENT SHOULD BE IN CONFORMANCE WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS.
8. THE LONGITUDINAL SPACE BETWEEN THE WORD "ONLY" AND THE DIRECTIONAL ARROW IS 40 FEET.
9. THE LONGITUDINAL SPACE BETWEEN DIRECTIONAL ARROWS IS 100 FEET, UNLESS OTHERWISE NOTED.
10. ALL MEDIAN NOSES SHALL BE PAINTED REFLECTIVE YELLOW.
11. ALL STRIPING MUST CONFORM TO THE MUTCD.
12. ALL SIGNING SHALL HAVE ANTI-GRAFFITI SHEETING OR COATING.



W1-7-48
B/Y
R/W
B-2-96
BARRICADES TO BE PLACED FOR BOTH DIRECTIONS OF TRAFFIC
ORIGINAL TOWNSITE OF WESTLAND
EXISTING PROJECT | THIS PROJECT
TRANSITION FROM EXISTING WESTBOUND STRIPING TO NEW STRIPING THROUGH LIMITS OF NEW ENTRANCE OPENING
SUMMARY PLAT OF TRACTS 44A & 44B
CENTRAL AVE.
TRACTS ALLOTTED FROM TOWN OF ATRISCO GRANT UNIT NO. FOUR
HUBBELL HEIGHTS
SEE SHEET 5 FOR LANE DIMENSIONS.
OBLITERATE ALL CONFLICTING PAVEMENT MARKINGS AND STRIPING IN CENTRAL AVENUE AS PER STRIPING ERADICATION NOTE THIS SHEET
LANDS OF UNSER
CROSSWALKS AND STOP BARS TO BE STRIPED WITH SEPARATE PROJECT
INSTALL SPECIAL SIGN SEE DETAIL THIS SHEET
UNSER BLVD. SIGNING TO BE INSTALLED WITH SEPARATE PROJECT
UNSER BLVD.
SKYVIEW WEST
V.E. BARRETT SUBDIVISION
OBLITERATE ALL CONFLICTING PAVEMENT MARKINGS AND STRIPING IN 86TH STREET AND AT CENTRAL AVENUE INTERSECTION AS PER STRIPING ERADICATION NOTE THIS SHEET
86TH STREET
CROSSWALK DETAIL
SPECIAL SIGN DETAIL
5'-6"
ONLY
ONLY
BORDER R=1.13" TH=0.63" IN=0.38"
NOTE: SEE SHEET 5 FOR TYPICAL STREET SECTIONS AND LANE DIMENSIONS.
BRIDGEPOINT SUBDIVISION
BRIDGE BLVD.
DESERT GARDENS SUBDIVISION
OBLITERATE EXISTING STRIPING BETWEEN RETURNS AS PER STRIPING ERADICATION NOTE THIS SHEET
TRANSITION TO MATCH EXISTING LANE STRIPE
TRANSITION TO MATCH EXISTING EDGE OF ASPHALT
EXIST. CENTERLINE STRIPE TO REMAIN TO MATCH NEW 14' CONTINUOUS LT. PAINTED MEDIAN. DASH INTERIOR TO SIGNIFY CONTINUOUS LEFT.
STOP BAR
TYPICAL DASHED STRIPING
TYPICAL RIGHT TURN ONLY
TYPICAL STRIPING DETAILS
6" SOLID WHITE STRIPE
USE BICYCLE SYMBOL w/ RIDER IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD
BICYCLE PAVEMENT MARKINGS
STOP R1-1-36
LEFT LANE MUST TURN LEFT R3-7L-30
KEEP RIGHT R4-7b-24
BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4-36
BIKE LANE R3-17-30
BIKE ROUTE D11-1-24
ENDS R3-17b-30
M7-2
M7-5
M7-6
R3-4-24

KEYED NOTES:

1. EXISTING PAVEMENT MARKINGS TO REMAIN.
2. NEW 4" BROKEN WHITE REFLECTIVE THERMOPLASTIC STRIPE (10' STRIPE, 30' GAP).
3. NEW 4" SOLID WHITE REFLECTIVE THERMOPLASTIC STRIPE.
4. INSTALL CROSSWALK PER DETAIL THIS SHEET.
5. NEW 12" OR 24" SOLID WHITE THERMOPLASTIC STRIPE STOP BAR, 4' (MIN.) BEHIND CROSSWALK OR PC OF MEDIAN WHICHEVER IS LESS.
6. NEW PREFORMED THERMOPLASTIC LEFT ARROW.
7. NEW PREFORMED THERMOPLASTIC RIGHT ARROW.
8. NEW PREFORMED THERMOPLASTIC THRU OR CHANNELIZATION ARROW.
9. NEW PREFORMED THERMOPLASTIC THRU AND RIGHT ARROW.
10. NEW PREFORMED THERMOPLASTIC THRU AND LEFT ARROW.
11. NEW PREFORMED THERMOPLASTIC PAVEMENT MARKING "ONLY".
12. NEW BICYCLE PAVEMENT MARKING. SEE DIAGRAM THIS SHEET.
13. REMOVE EXISTING STRIPING OR PAVING MARKINGS. SEE STRIPING ERADICATION NOTE THIS SHEET.
14. NEW 4" BROKEN WHITE REFLECTIVE THERMOPLASTIC STRIPE (3' STRIPE, 7' GAP).
15. 6" WHITE THERMOPLASTIC BIKE LANE STRIPING.
16. NEW 4" SOLID YELLOW REFLECTIVE THERMOPLASTIC STRIPE.
17. NEW 4" BROKEN YELLOW REFLECTIVE THERMOPLASTIC STRIPE (10' STRIPE, 30' GAP).
18. PAINT MEDIAN NOSE YELLOW.
19. NEW 4" SOLID DOUBLE YELLOW REFLECTIVE THERMOPLASTIC STRIPE.
20. RELOCATE EXISTING STOP SIGN. REPLACE IF NECESSARY.
21. NEW 4" BROKEN YELLOW REFLECTIVE THERMOPLASTIC STRIPE (3' STRIPE, 7' GAP).

SIGNING LEGEND:

1. R1-1-36
2. R3-7L-30
3. R4-7b-24
4. R4-4-36
5. R3-17-30
6. D11-1-24
7. R3-17b-30
8. M7-2-21
9. M7-5-21
10. M7-6-21
11. R3-4-24

STRIPING ERADICATION NOTE:

STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING TO A WIDTH EQUAL TO TWICE THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED

CONTRACTOR SHALL COORDINATE WITH ANDREW GALLEGOS AT THE CITY OF ALBUQUERQUE PRIOR TO STRIPING AND SIGNING

SCALE: 1"=100' (HORIZ.)

Note To Contractor See Sheet 4 For Bid Boundaries

AS-BUILT INFORMATION

CONTRACTOR	DATE
WORK STAKED BY Cartesian Surveys Inc.	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY Cartesian Surveys Inc.	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

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BENCH MARKS

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SURVEY INFORMATION — FIELD NOTES — NO. BY DATE

ENGINEER'S SEAL — YOLANDA PADILLA MOYER 16035 PROFESSIONAL ENGINEER

NO.	DATE	BY	REVISIONS / REMARKS
1	11-09	YM	AS-BUILT INFORMATION

DESIGN

DESIGNED BY YPM / BCP DATE 08/2008
DRAWN BY ARR / SAR DATE 08/2008
CHECKED BY YPM DATE 08/2008

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
OVERALL
STRIPING & SIGNING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	13	29

BHI JOB NO. 090147

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TRAFFIC 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 LATEST SPECIFICATIONS.

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 AMERICAN 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. THE LOCATION OF MASTARMS AND PEDESTAL POLES ARE SHOWN ON THE PLANS. THESE STATIONS AND OFFSETS SHALL BE VERIFIED IN THE FIELD AND ADJUSTED AS CONDITIONS CHANGE.

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.

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 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) FIVE 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 OPEN

9. THE CONTRACTOR SHALL NOTIFY PNM 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM 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 IS CONSIDERED INCIDENTAL TO CONSTRUCTION. PNM CONTACT FOR TRAFFIC SIGNAL POWER SERVICE IS ANDREA CONTRERAS – 241-3666.

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 PULL BOXES 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.

18. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVAITONS 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.

19. THE CONTRACTOR SHALL ENSURE ALL PEDESTRIAN PUSHBUTTONS AND PEDESTRIAN SIGNAL INDICATION LOCATIONS ADHERE TO THE MOST CURRENT AMERICANS WITH DISABILITIES ACT (ADA) AND CITY OF ALBUQUERQUE REGULATIONS. THE CONTRACTOR SHALL CONTACT THE PROJECT MANAGER AND/OR THE LOCAL AGENCY ADA REPRESENTATIVE TO INSPECT AND APPROVE RAMP CONFIGURATIONS AS STAKED BEFORE FINAL PLACEMENT OF CONCRETE. PUSHBUTTONS FOR PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

    + LATERALLY WITHIN 5' OF THE STRIPED CROSSWALK.

    + LONGITUDINALLY WITHIN 10' OF THE EDGE OF CURB, SHOULDER OR PAVEMENT.

    + PARALLEL TO THE CROSSWALK TO BE USED.

    + WITHIN 10" REACH OF A FLAT (50:1 MAX SLOPE) ALL-WEATHER SURFACE FOR WHEELCHAIR ACCESS.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:

    A. THE TRAFFIC SIGNAL CONTROLLERS SUPPLIED FOR THIS PROJECT SHALL BE AS DIRECTED BY COA TRAFFIC ENGINEERING DEPARTMENT (ANDREW GALLEGOS, 857-8004).

    B. THE TRAFFIC SIGNAL CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE AS DIRECTED BY COA.

2. SPLICE CABINETS SHALL BE AS DETAILED ON THE PLANS. LOW VOLTAGE SPLICE BLOCKS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BLOCK CAPABLE OF HANDLING 25 PAIR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET CAPABLE OF HANDLING NUMBER OF CONDUCTORS SHOWN ON PLANS). SPLICE BLOCKS SHALL BE BELL SYSTEMS PART #66B3-50 OR APPROVED EQUAL. ALL COMMUNICATION CABLE PAIRS SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.

3. GDI 4195A TWISTED PAIR MODEM WITH 4-WIRE SURGE PROTECTOR TO INTEGRATE WITH I2 (SIEMENS SYSTEM).

4. INTERCONNECT CABLES SHALL COMPLY WITH REA SPECIFICATION PE-22. INTERCONNECT CABLE SHALL CONTAIN THE NUMBER OF WIRE PAIRS SHOWN ON THE PLANS AND THE INDIVIDUAL CONDUCTORS SHALL BE 19 AWG SOLID.

5. EMERGENCY VEHICLE PRE-EMPT EQUIPMENT SHALL BE 3M "OPTICOM" MODEL 562 OR LATEST MODEL PHASE SELECTORS MOUNTED ON 3M "OPTICOM" MODEL 560 RACKS, OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS OF DETECTION EACH. OPTICAL DETECTORS SHALL BE 3M "OPTICOM" MODEL 711, ONE (1) CHANNEL, ONE (1) DIRECTION OR APPROVED EQUAL. OPTICAL DETECTOR CABLE SHALL BE 3M "OPTICOM" MODEL 138 OR EQUAL. A MANUFACTURERS REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL PRE-EMPTION EQUIPMENT AND ASSIST IN SETTING UP, TURNING ON, PROGRAMMING AND FIELD TESTING PRE-EMPTION EQUIPMENT TO INSURE THAT THE EQUIPMENT IS OPERATIONAL.

6. THIS PROJECT INVOLVES THE INSTALLATION OF A VEHICLE DETECTION SYSTEM. THEREFORE, THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:

    A. THE VIDEO DETECTION SYSTEM SHALL BE AUTOSCOPE SOLO PRO II, ITERIS VANTAGE II, TRAFICON OR APPROVED EQUAL. THE VIDEO DETECTION SYSTEM SHALL INCLUDE ALL NECESSARY HARNESSES, VIDEO PROCESSOR UNIT, MATERIAL AND MISCELLANEOUS COMPONENTS NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM.

    B. VIDEO CAMERAS SHALL BE EQUIPPED WITH ZOOM LENSES.

    C. COMPUTER SOFTWARE AND HARNESSES TO CONNECT AND OPERATE THE NEW SYSTEM.

    D. VIDEO CABLE AS RECOMMENDED BY THE MANUFACTURER.

    E. TRAINING BY MANUFACTURER, ON-SITE FOR CITY OF ALBUQUERQUE TRAFFIC ENGINEERING PERSONNEL. THIS TRAINING SHALL REVIEW THE OPERATION COMPONENTS OF THE VIDEO DETECTION SYSTEM AS WELL AS DISCUSSION OF ALL REQUIRED MAINTENANCE.

7. ALL SIGNAL INDICATORS AND PEDESTRIAN SIGNAL HEADS SHALL BE LED, AS APPROVED BY THE CITY. PEDESTRIAN SIGNALS SHALL BE COUNTDOWN AS APPROVED BY THE CITY.

8. ILLUMINATED STREET NAME SIGNS SHALL BE CARMANAH OR APPROVED EQUAL.

9. THE FOLLOWING CITY OF ALBUQUERQUE STANDARD DRAWINGS SHALL BE USED FOR THIS PROJECT:

    2550 TRAFFIC SIGNAL PULL BOX DETAIL
    2551 TRAFFIC SIGNAL MANHOLE DETAIL
    2555 TRAFFIC SIGNAL CONTROLLER CABINET & PEDESTAL FOUNDATION DETAIL
    2557 TRAFFIC SIGNAL SPLICE CABINET GROUND MOUNT (LARGE)
    2558 TRAFFIC SIGNAL FOUNDATION DETAIL TYPE II & TYPE III STANDARDS
    2562c TRAFFIC SIGNAL MASTARM DETAIL TYPE III STANDARD
    2562d TRAFFIC SIGNAL TYPE III STANDARD – MISCELLANEOUS DETAILS
    2568 TRAFFIC SIGNAL MACHINE VISION VEHICLE DETECTOR SYSTEM
    2569 TRAFFIC SIGNAL OPTICAL DETECTOR INSTALLATION DETAILS
    2570 TRAFFIC ELECTRICAL SERVICE DETAIL
    2572 TRAFFIC SIGNAL METER PEDESTAL DETAIL COMBINATION SIGNAL & LIGHTING

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
		PULL BOX
		SERVICE POLE
M		METER PEDESTAL
C		CONTROLLER CABINET
		CONDUIT RUN (SIGNALS)
		CONDUIT RUN (LIGHTING)
		CONDUIT RUN (INTERCONNECT)
		TRAFFIC SIGNAL PEDESTAL POLE
X		CONDUIT RUN NUMBER (SIGNAL)
SX		CONDUIT RUN NUMBER (POWER SERVICE)
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		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

AS-BUILT INFORMATION
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SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
KURT D. THORSON, NEW MEXICO, 13310, REGISTERED PROFESSIONAL ENGINEER

REMARKS / REVISIONS / DESIGN
NO. | DATE | BY
DESIGNED BY LAH / KDT — DATE 08/2008
DRAWN BY LAH — DATE 08/2008
CHECKED BY KDT — DATE 08/2008

(Base Bid)

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
TRAFFIC SIGNAL NOTES, EQUIPMENT REQUIREMENTS AND LEGEND

DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 735684 | ZONE MAP NO. K-9 K-10 | SHEET 14 OF 29

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Mon, 13-OCT-2008 – 13:46PM, Plotted by: lahinde

BHI JOB NO. 090147

RECORD DRAWINGS

ESTIMATED QUANTITIES

		UNIT	CENTRAL/86th SIGNAL	CENTRAL/DRIVEWAY "B" SIGNAL	CENTRAL/86th LIGHTING	CENTRAL/DRIVEWAY "B" LIGHTING	CENTRAL/UNSER SIGNAL	INTERCONNECT	TOTAL
0421.005	SERVICE RISER (SIGNAL)	EACH	1	1					2
0421.011	METER PEDESTAL (SIGNAL & LIGHTING)	EACH	1	1					2
0422.004	TRAFFIC SIGNAL PEDESTAL POLE, 15 FOOT	EACH	6	6			1		13
0422.017	TRAFFIC SIGNAL MASTARM, 30 FOOT ARM, TYPE III, TROMBONE	EACH	1	1					2
0422.018	TRAFFIC SIGNAL MASTARM, 35 FOOT ARM, TYPE III, TROMBONE	EACH	1						1
0422.021	TRAFFIC SIGNAL MASTARM, 40 FOOT ARM, TYPE III, TROMBONE	EACH		1					1
0423.001	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE	EACH	6	6			1		13
0423.002	TRAFFIC SIGNAL MASTARM FOUNDATION	EACH	2	2					4
0423.003	TRAFFIC CONTROLLER FOUNDATION (TYPE M & P CABINETS)	EACH	1	1					2
0424.006	RIGID ELECTRICAL CONDUIT, 2" INCLUDING PUSHING, BORING & JACKING	LIN FT	795	810	330	345	180	75	2535
0424.011	RIGID ELECTRICAL CONDUIT, 3" INCLUDING PUSHING, BORING & JACKING	LIN FT	605	625			165	4880	6275
0425.002	ELECTRICAL PULL BOX, (STANDARD)	EACH			5	5			10
0425.003	ELECTRICAL PULL BOX, (LARGE)	EACH	7	7			1	16	31
0425.012	SPLICE CABINET GROUND MOUNT (LARGE)	EACH						3	3
0425.020	TRAFFIC SIGNAL MANHOLE	EACH	1	1				2	4
0426.001	SINGLE CONDUCTOR, 2	LIN FT			730	760			1490
0426.004	SINGLE CONDUCTOR, 8	LIN FT	605	630			180		1415
0426.010	MULTI-CONDUCTOR CABLE 5	LIN FT	2050	2070			360		4480
0426.011	MULTI-CONDUCTOR CABLE 7	LIN FT	125	115			20		260
0426.014	MULTI-CONDUCTOR CABLE 20	LIN FT	1210	1260			360		2830
0426.020	COMMUNICATION CABLE 6 PAIR	LIN FT						75	75
0426.021	COMMUNICATION CABLE 12 PAIR	LIN FT						6430	6430
0427.002	3 SECTION TRAFFIC SIGNAL ASSEMBLY (LED)	EACH	9	9					18
0427.004	5 SECTION TRAFFIC SIGNAL ASSEMBLY (LED)	EACH	3	3			1		7
0427.031	3 SECTION BACKPLATE	EACH	4	4					8
0427.XXX	PEDESTRIAN SIGNAL, COUNTDOWN, LED	EACH	4	4					8
0428.010	PEDESTRIAN PUSH BUTTON STATION	EACH	4	4					8
0428.071	PHASE SELECTOR MODULE, 2 CHANNEL	EACH	2	2					4
0428.075	OPTICAL DETECTOR, 1D/1C	EACH	2	2					4
0428.078	OPTICAL DETECTOR CABLE	EACH	500	515					1015
0428.092	VIDEO COAXIAL CABLE	LIN FT	840	860					1700
0428.093	VIDEO POWER CABLE	LIN FT	840	860					1700
0428.094	VIDEO CAMERA	EACH	2	2					4
0429.001	TRAFFIC ACTUATED CONTROLLER	EACH	1	1					2
0429.021	EIGHT PHASE DUAL RING CONTROLLER CABINET	EACH	1	1					2
0432.002	ROADWAY LUMINAIRE, TYPE 400S	EACH			2	2			4
0450.XXX	SPECIAL ALBUQUERQUE ILLUMINATED STREET NAME SIGN	EACH	2	2					4

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, DRIVE PADS, 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 SHIELDING 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 TRAFFIC ENGINEERING OPERATIONS YARD.
9. LEAN FILL FOR CONDUIT TRENCHES.
10. PULL BOX ADJUSTMENT TO GRADE.
11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
12. REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
13. COST FOR PUBLIC SERVICE COMPANY TO PROVIDE ELECTRICAL SERVICE.
14. PROCESSOR FOR VEHICLE DETECTION SYSTEM.

* 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.

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc.
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY Cartesian Surveys Inc.
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
NO.

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
KURT D. THORSON
NEW MEXICO
13310
REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY
REVISIONS
DESIGN
DESIGNED BY LRM / BDP DATE 08/2008
DRAWN BY ARRL/AHSAR DATE 08/2008
CHECKED BY KDM DATE 08/2008

(Base Bid)

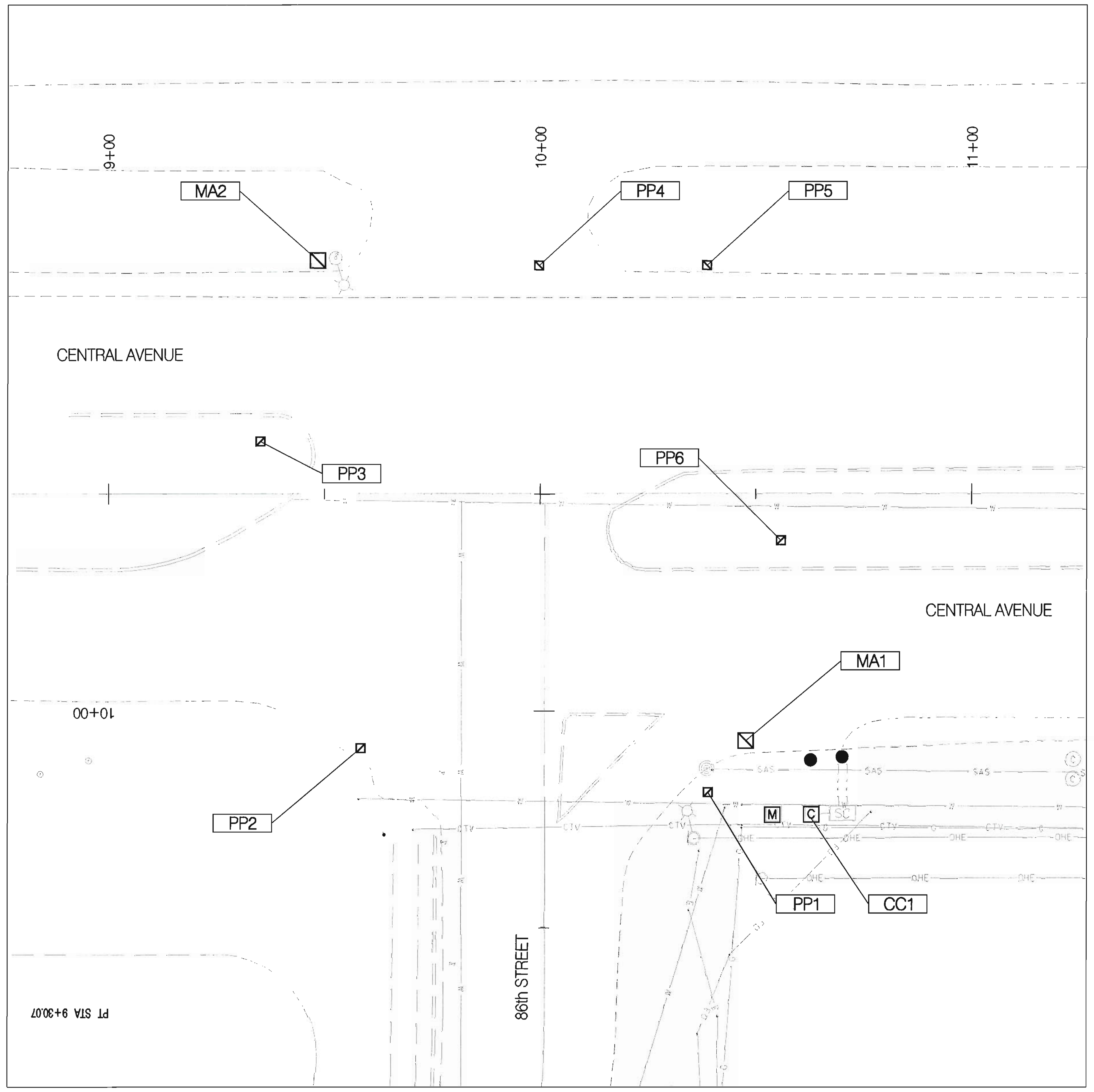
Bohannan ▲ Huston INC.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

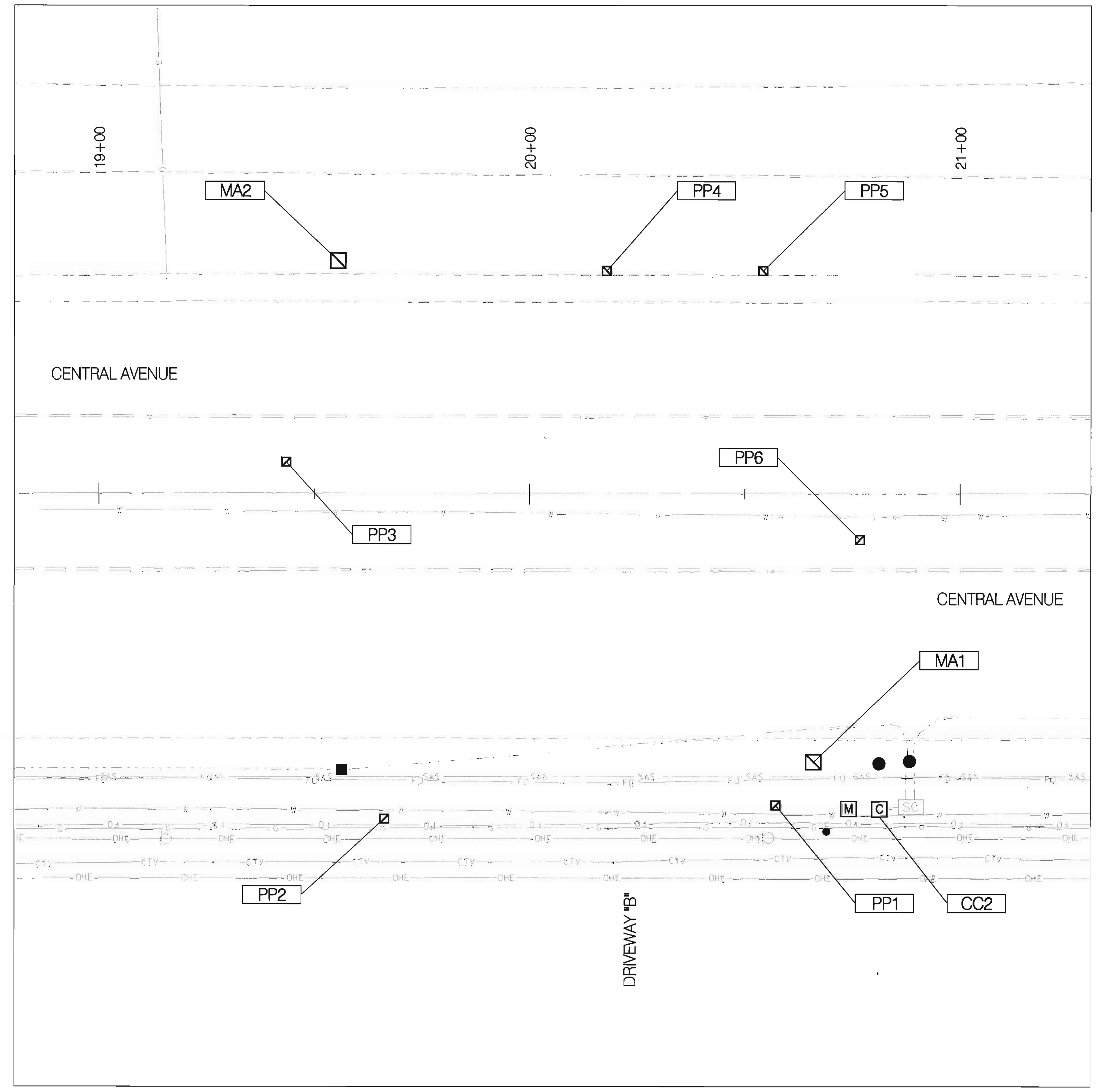
OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
TRAFFIC SIGNAL ESTIMATED QUANTITIES AND INCIDENTAL ITEMS

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | MO./DAY/YR. | MO./DAY/YR.
For Information Only
LAST DESIGN UPDATE

CITY PROJECT NO. 735684 | ZONE MAP NO. K-9 K-10 | SHEET 15 OF 29



CENTRAL AVENUE / 86th STREET



CENTRAL AVENUE / DRIVEWAY "B"

FOUNDATION LOCATIONS - CENTRAL AVE / 86th STREET					
	TYPE	STATION	OFFSET	LUMINAIRE MOUNT. HT.	LUMINAIRE ARM
MA1	MASTARM - 35' TYPE III	10+47.66	56.85' RT	40'	10'
MA2	MASTARM - 30' TYPE III	9+48.48	54.06' LT	40'	10'
PP1	PEDESTAL - 15' TYPE I	10+38.92	68.80' RT	-	-
PP2	PEDESTAL - 15' TYPE I	9+58.47	58.60' RT	-	-
PP3	PEDESTAL - 15' TYPE I	9+35.20	12.17' LT	-	-
PP4	PEDESTAL - 15' TYPE I	9+99.71	52.91' LT	-	-
PP5	PEDESTAL - 15' TYPE I	10+38.61	52.95' LT	-	-
PP6	PEDESTAL - 15' TYPE I	10+55.83	10.64' RT	-	-
CC1	CONTROLLER	10+62.88	73.90' RT	-	-

NOTES

1. FOUNDATION LOCATIONS ARE SHOWN FOR THE PROPOSED SIGNAL EQUIPMENT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF FOUNDATIONS SO THAT THE TOP OF THE FOUNDATIONS ARE FLUSH WITH THE NEW ADJACENT ACCESS RAMPS AS SHOWN ON THE PLANS.
2. UTILITIES SHOWN WERE OBTAINED FROM FIELD OBSERVATIONS AND SURVEYS, AND ARE FOR THE CONTRACTOR'S INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR EXPOSING UTILITIES TO IDENTIFY THE EXACT LOCATION PRIOR TO INSTALLATION OF THE NEW FOUNDATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR WORK NEEDED TO IDENTIFY UTILITY LOCATIONS.

FOUNDATION LOCATIONS - CENTRAL AVE / DRIVEWAY "B"					
	TYPE	STATION	OFFSET	LUMINAIRE MOUNT. HT.	LUMINAIRE ARM
MA1	MASTARM - 40' TYPE III	20+65.92	61.85' RT	40'	10'
MA2	MASTARM - 30' TYPE III	19+55.51	54.06' LT	40'	10'
PP1	PEDESTAL - 15' TYPE I	20+57.17	71.90' RT	-	-
PP2	PEDESTAL - 15' TYPE I	19+66.29	75.00' RT	-	-
PP3	PEDESTAL - 15' TYPE I	19+43.52	7.47' LT	-	-
PP4	PEDESTAL - 15' TYPE I	20+17.86	51.71' LT	-	-
PP5	PEDESTAL - 15' TYPE I	20+54.20	51.71' LT	-	-
PP6	PEDESTAL - 15' TYPE I	20+76.71	10.50' RT	-	-
CC1	CONTROLLER	20+81.34	72.76' RT	-	-

N

0 10 20 40

SCALE: 1"=20'

(Base Bid)

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc.
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY Cartesian Surveys Inc.
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
NO.

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
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DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
KURT D. THORSON
NEW MEXICO
13918
REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY
REVISIONS

DESIGN
DESIGNED BY LAH / KDT DATE 08/2008
DRAWN BY LAH DATE 08/2008
CHECKED BY KDT DATE 08/2008

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
EXISTING UTILITY INFORMATION - FOUNDATION LOCATIONS

DESIGN REVIEW COMMITTEE — APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL — APPROVED OCT 31 2008 CITY ENGINEER
MO./DAY/YR. | MO./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT NO. 735684 | ZONE MAP NO. K-9 K-10 | SHEET 16 OF 29

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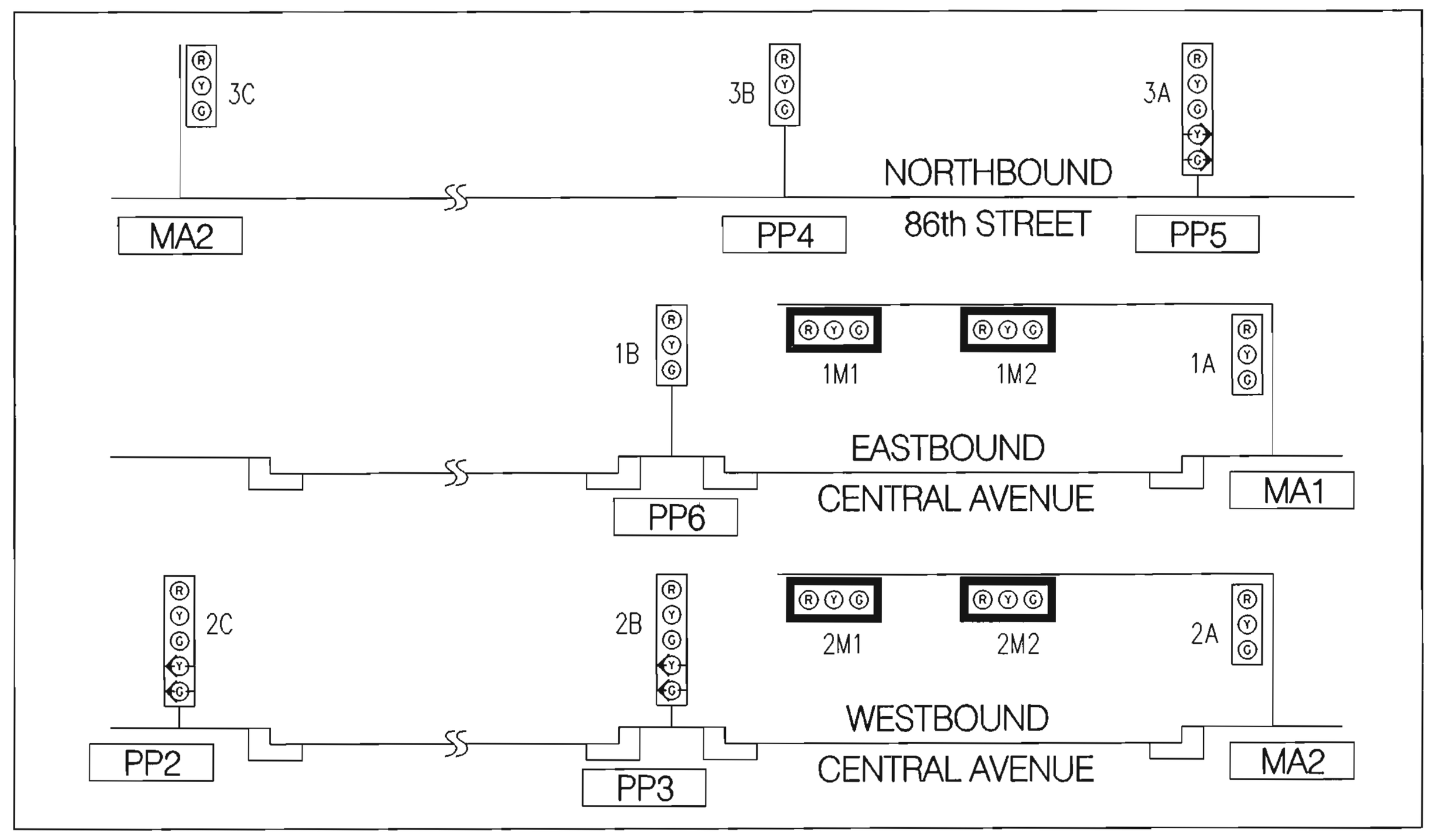
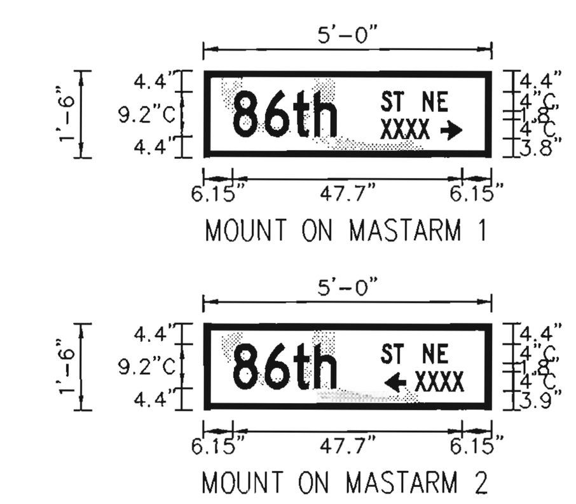
BHI JOB NO. 090147

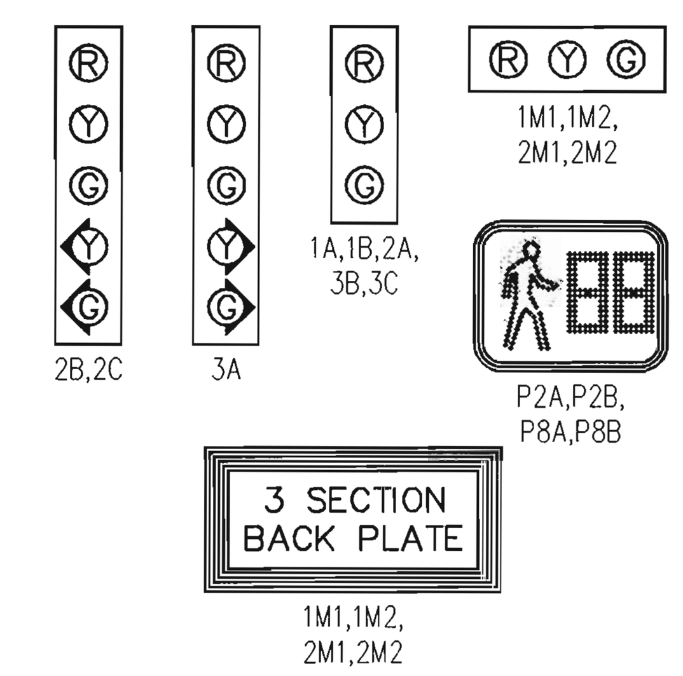
TRAFFIC SIGNAL CONFIGURATION BY APPROACH



SPECIAL ALBUQUERQUE ILLUMINATED STREET NAME SIGNS



TYPICAL SIGNAL FACE LENS ARRANGEMENTS



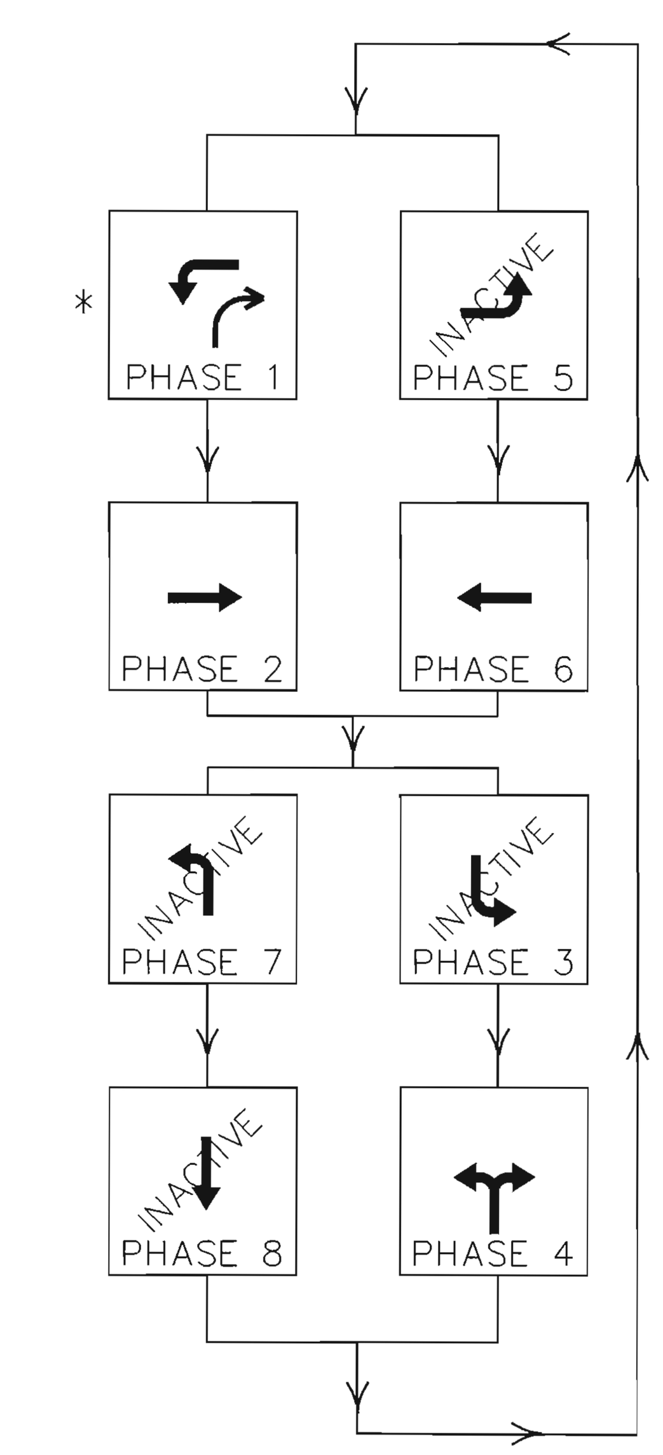
OPTICAL DETECTOR CABLE

FROM	TO	CONDUIT TRACE	TOTAL LENGTH
MA1	CC1	MA1-20-2	95'
MA2	CC1	MA2-22-12-10-8-6-4-2	405'
		TOTAL	500'

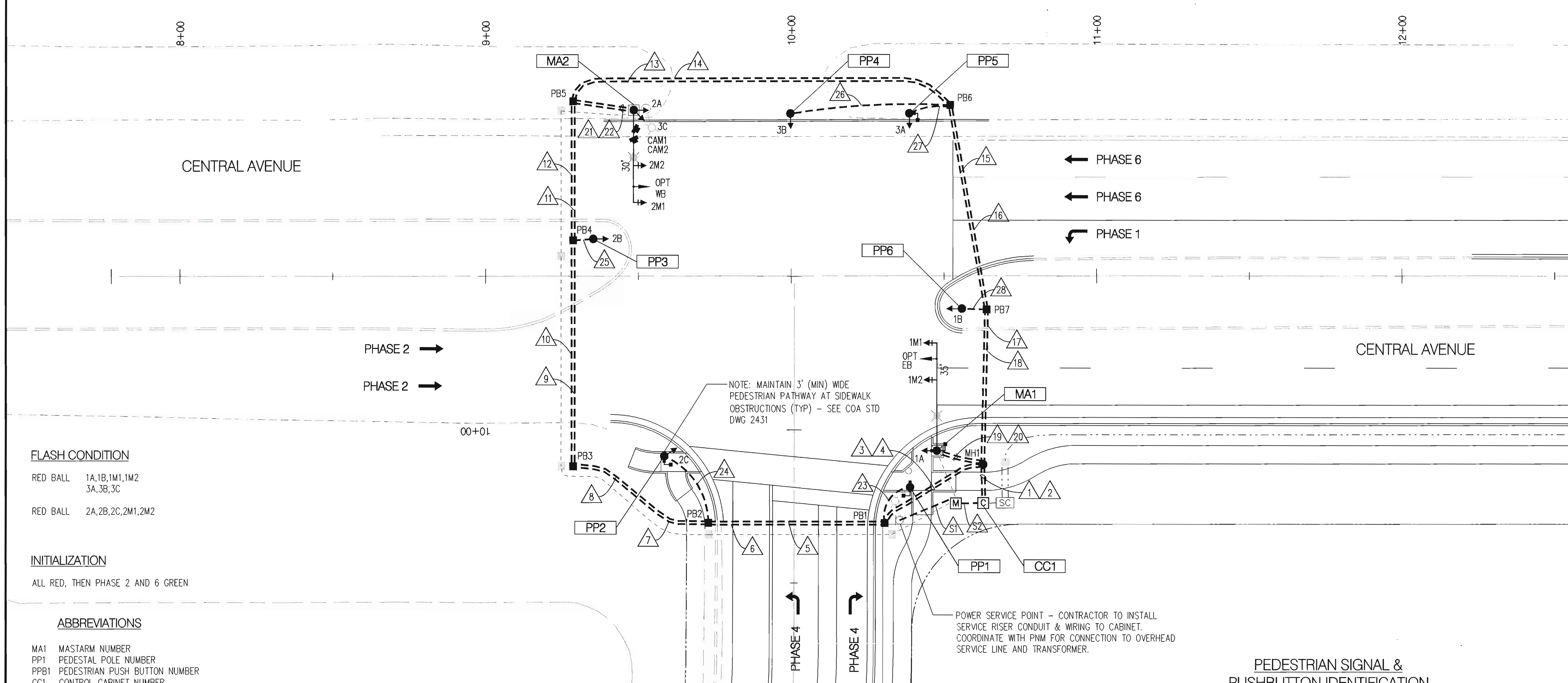
VIDEO DETECTOR CABLE

FROM	TO	CONDUIT TRACE	TOTAL LENGTH
MA2	CC1	MA2-22-12-10-8-6-4-2	420'x2=840'
		TOTAL	840'

SIGNAL PHASING



*Ø1 – Ø8 OVERLAP



FLASH CONDITION

RED BALL 1A,1B,1M1,1M2
3A,3B,3C

RED BALL 2A,2B,2C,2M1,2M2

INITIALIZATION

ALL RED, THEN PHASE 2 AND 6 GREEN

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)
3A SIGNAL HEAD NUMBER
P1 PEDESTRIAN SIGNAL NUMBER
MH1 TRAFFIC MANHOLE NUMBER

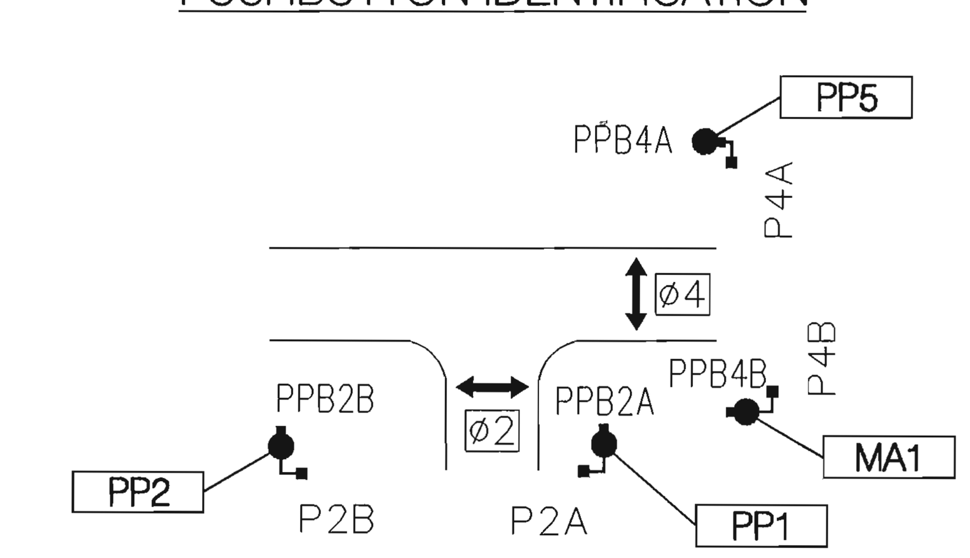
NOTES

1. PULL BOXES PB1 THRU PB7 ARE LARGE SIZE.
2. SEE SHEET 16 FOR UTILITY INFORMATION.
2. SEE SHEET 23 FOR INTERSECTION LIGHTING PLAN.
3. SEE SHEET 25 FOR INTERCONNECT PLAN.

SYMBOL KEY

MAX SIGNAL & CABINET ID
X CONDUIT RUN ID (SIGNALS)
SX CONDUIT RUN ID (POWER SERVICE)

PEDESTRIAN SIGNAL & PUSHBUTTON IDENTIFICATION



N
0 10 20 40
SCALE: 1"=20'

(Base Bid)

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Mon, 13-OCT-2008 – 13:49PM, Plotted by: lahinde

BHI JOB NO. 090147

AS-BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 09/09
WORK STAKED BY Cartesian Surveys Inc. DATE 1/08 - 9/09
INSPECTOR'S ACCEPTANCE BY COA DATE 09/09
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 8/09
DRAWINGS CORRECTED BY Franklin's Earthmoving DATE 09/09
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
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NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
KURT D. THORSON NEW MEXICO 13310 REGISTERED PROFESSIONAL ENGINEER
Kurt D. Thorson 10/16/08

NO.	DATE	REMARKS	BY

REVISIONS
DESIGN

DESIGNED BY LAH / KDT DATE 08/2008
DRAWN BY LAH DATE 08/2008
CHECKED BY KDT DATE 08/2008

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
TRAFFIC SIGNAL PLAN - CENTRAL AVE / 86th STREET

DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
MO./DAY/YR. MO./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT NO. 735684
ZONE MAP NO. K-9 K-10
SHEET 17 OF 29

RECORD DRAWINGS

CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE						CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE								
RUN ID	SIZE/LENGTH 1"	2"	3"	TYPE	REMARKS	MCC 5 (#@FT)	MCC 7 (#@FT)	MCC 20 (#@FT)	SCC #2 (#@FT)	SCC #8 (#@FT)	PS (#@FT)	OPTICOM (#@FT)	VIDEO CABLE (#@FT)	OTHER (#@FT)
S1		25		REC	POWER TO METER				3 @ 30					
S2		10		REC	METER TO CC1				3 @ 15					
1			15	REC	CC1 TO MH1	2 @ 20		2 @ 20		1 @ 20				
2		15		REC	CC1 TO MH1							2 @ 20	2 @ 20	
3			40	REC	MH1 TO PB1	2 @ 45		2 @ 45		1 @ 45				
4		40		REC	MH1 TO PB1							1 @ 45	2 @ 45	
5			65	REC	PB1 TO PB2	2 @ 70		2 @ 70		1 @ 70				
6		65		REC	PB1 TO PB2							1 @ 70	2 @ 70	
7			55	REC	PB2 TO PB3	2 @ 60		2 @ 60		1 @ 60				
8		55		REC	PB2 TO PB3							1 @ 60	2 @ 60	
9			75	REC	PB3 TO PB4	2 @ 80		2 @ 80		1 @ 80				
10		75		REC	PB3 TO PB4							1 @ 80	2 @ 80	
11			50	REC	PB4 TO PB5	2 @ 55		2 @ 55		1 @ 55				
12		50		REC	PB4 TO PB5							1 @ 55	2 @ 55	
13			130	REC	PB5 TO PB6	2 @ 135		2 @ 135		1 @ 135				
14		130		REC	PB5 TO PB6						1 @ 135			
15			75	REC	PB6 TO PB7	2 @ 80		2 @ 80		1 @ 80				
16		75		REC	PB6 TO PB7						1 @ 80			
17			55	REC	PB7 TO MH1	2 @ 60		2 @ 60		1 @ 60				
18		55		REC	PB7 TO MH1						1 @ 60			
19			20	REC	MA1 TO MH1	5 @ 25								
20		20		REC	MA1 TO MH1						1 @ 25	1 @ 25		
21			25	REC	MA2 TO PB5	4 @ 30								
22		25		REC	MA2 TO PB5							1 @ 30	2 @ 30	
23		20		REC	PP1 TO PB1	2 @ 25								
24		30		REC	PP2 TO PB2	2 @ 35	1 @ 35							
25		15		REC	PP3 TO PB4		1 @ 20							
26		55		REC	PP4 TO PB6	1 @ 60								
27		20		REC	PP5 TO PB6	2 @ 25	1 @ 25							
28		15		REC	PP6 TO PB7	1 @ 20								
MA1					BASE TO 1A	1 @ 15								
MA1					BASE TO 1M1	1 @ 55								
MA1					BASE TO 1M1	1 @ 45								
MA1					BASE TO P2A	1 @ 15								
MA1					BASE TO P8B	1 @ 15								
MA1					BASE TO PPB8B	1 @ 5								
MA1					BASE TO OPTICOM EB							1 @ 50		
MA2					BASE TO 2A	1 @ 15								
MA2					BASE TO 2M1	1 @ 45								
MA2					BASE TO 2M2	1 @ 45								
MA2					BASE TO 2C	1 @ 15								
MA2					BASE TO OPTICOM WB							1 @ 45		
MA2					BASE TO CAM1								1 @ 60	
MA2					BASE TO CAM2								1 @ 60	
PP1					BASE TO P2A	1 @ 15								
PP1					BASE TO PPB2A	1 @ 5								
PP2					BASE TO 2C		1 @ 15							
PP2					BASE TO P2B	1 @ 15								
PP2					BASE TO PPB2B	1 @ 5								
PP3					BASE TO 2B		1 @ 15							
PP4					BASE TO 3B	1 @ 15								
PP5					BASE TO 3A		1 @ 15							
PP5					BASE TO P8A	1 @ 15								
PP5					BASE TO PPB8A	1 @ 5								
PP6					BASE TO 1B	1 @ 15								
TOTALS	0	795	605			2065	125	1210	135	605	300	500	840	0

P:\090147\Trans\Design\Signal\090147-CC-86th.sht
Mon, 13-OCT-2008 - 13:49PM, Plotted by: lahinde

BHI JOB NO. 090147

AS-BUILT INFORMATION
CONTRACTOR / WORK STAKED BY Cartesian Surveys Inc. / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY Cartesian Surveys Inc. / DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY / NO. / DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
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NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
KURT D. THORSON NEW MEXICO 13340 REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY LAH / KDT DATE 08/2008
DRAWN BY LAH DATE 08/2008
CHECKED BY KDT DATE 08/2008

(Base Bid)

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
CONDUITS & CABLES - CENTRAL AVE / 86th STREET

DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
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LAST DESIGN UPDATE

CITY PROJECT NO. 735684
ZONE MAP NO. K-9 K-10
SHEET 18 OF 29

DETECTOR LOOPS

LOOP ID	VEHICLE DETECTOR MODE	CALL	UNIT NO	CHANNEL	LOOP TYPE	LOOP DIMENSIONS L	W	S	T	LOOP WIRE	PAVEMENT SAWCUT

THIS INTERSECTION
REQUIRES
VIDEO DETECTION

DETECTOR RACK ASSIGNMENTS

UNIT NUMBER →	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1 →		Ø1	Ø2	Ø6	Ø2 EC	Ø3	Ø4	Ø8	Ø4 EC	DUAL LEFT Ø1	DUAL LEFT Ø3	SD 1	SD 3	SD 5	SD 7	SD 9	PED ISOLATION	OPTICOM 1	OPTICOM 3
CHANNEL 2 →		Ø5	Ø2	Ø6	Ø6 EC	Ø7	Ø4	Ø8	Ø8 EC	DUAL LEFT Ø5	DUAL LEFT Ø7	SD 2	SD 4	SD 6	SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED →	✳																✓	✓	✓

✳ INCIDENTAL TO CONSTRUCTION

FUNCTION CHART – 115 VOLT CIRCUIT 1/

CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	–	SPARE	SPARE	SPARE	SPARE
2	WHITE	–	SPARE	SPARE	SPARE	SPARE
3	RED	–	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	–	PHASE 1 GREEN	GREEN LEFT TURN ARROW 2B, 2C	PHASE 5 GREEN	SPARE
5	ORANGE	–	PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 2B, 2C	PHASE 5 YELLOW	SPARE
6	BLUE	–	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 1A, 1B, 1M1, 1M2	PHASE 6 RED	RED BALL 2A, 2B, 2C, 2M1, 2M2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 1A, 1B, 1M1, 1M2	PHASE 6 GREEN	GREEN BALL 2A, 2B, 2C, 2M1, 2M2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 1A, 1B, 1M1, 1M2	PHASE 6 YELLOW	YELLOW BALL 2A, 2B, 2C, 2M1, 2M2
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P2A, P2B	PHASE 6 WALK	SPARE
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P2A, P2B	PHASE 6 DON'T WALK	SPARE
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	SPARE	PHASE 7 GREEN	SPARE
15	BLUE	WHITE	PHASE 3 YELLOW	SPARE	PHASE 7 YELLOW	SPARE
16	BLACK	RED	PHASE 4 RED	RED BALL 3A, 3B, 3C	PHASE 8 RED	SPARE
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 3A, 3B, 3C	PHASE 8 GREEN	SPARE
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 3A, 3B, 3C	PHASE 8 YELLOW	SPARE
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P4A, P4B	PHASE 8 WALK	SPARE
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P4A, P4B	PHASE 8 DON'T WALK	SPARE

FUNCTION CHART – 24 VOLT CIRCUIT 3/

CONDUCTOR		RING 1–MULTI CONDUCTOR CABLE 5		RING 2–MULTI CONDUCTOR CABLE 5	
NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2	PPB2A, PPB2B	SPARE	
2	WHITE	COMMON	PPB2A, 2B, 4A, 4B	COMMON	
3	RED	PHASE 4	PPB4A, PPB4B	SPARE	
4	GREEN	SPARE		SPARE	
5	ORANGE	SPARE		SPARE	

NOTES:

1/ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS".

2/ WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE AND LOCATED 6" BACK FROM THE END.

3/ IDENTIFY CONDUCTORS LISTED AS "PPB – LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.

AS-BUILT INFORMATION
CONTRACTOR Francisco Engineering DATE 09/08
WORK STAKED BY Cartesian Surveys Inc. DATE 10/08
ACCEPTANCE BY City DATE 10/08
FIELD VERIFICATION BY Cartesian Surveys Inc DATE 09/08
DRAWINGS CORRECTED BY Francisco Engineering DATE 09/08
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
KURT D. THORSON NEW MEXICO 13810 REGISTERED PROFESSIONAL ENGINEER
Kurt D. Thorson 10/08

NO.	DATE	REMARKS	DESIGNED BY	DRAWN BY	CHECKED BY
		DESIGN	LAH / KDT	LAH	KDT
		REVISIONS	DATE 08/2008	DATE 08/2008	DATE 08/2008

(Base Bid)

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
FUNCTIONS & DETECTORS - CENTRAL AVE / 86th STREET

DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
LAST DESIGN UPDATE: MO./DAY/YR.

CITY PROJECT NO. 735684 | ZONE MAP NO. K-9 K-10 | SHEET 19 OF 29

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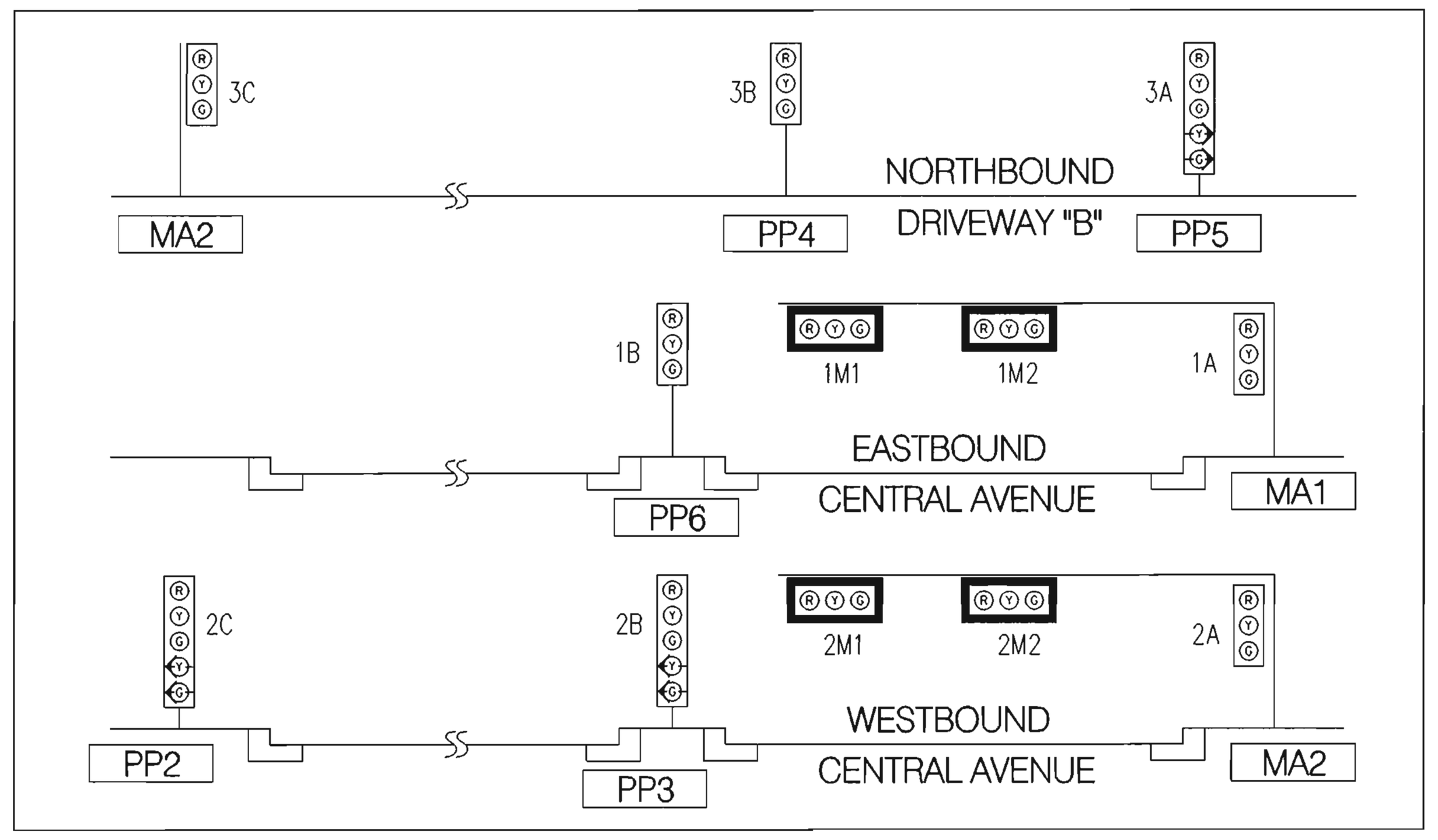
Mon, 13-OCT-2008 – 13:49PM, Plotted by: lahinde

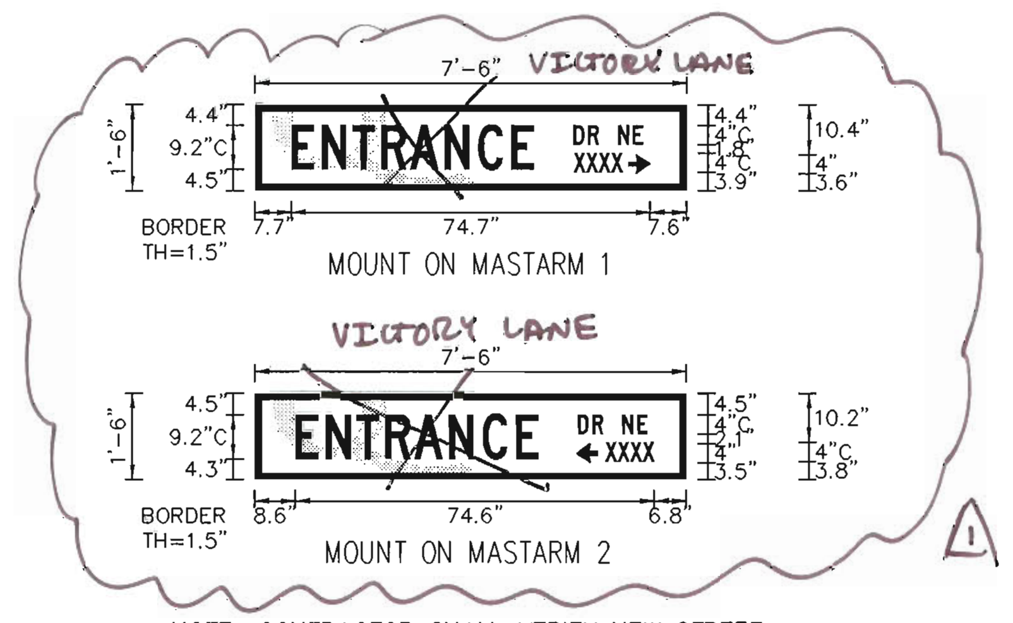
BHI JOB NO. 090147

RECORD DRAWINGS

TRAFFIC SIGNAL CONFIGURATION BY APPROACH

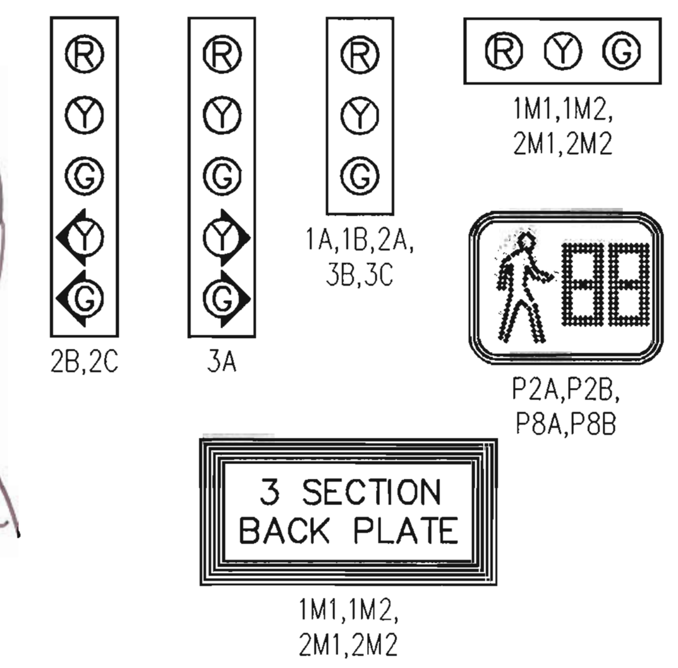


SPECIAL ALBUQUERQUE ILLUMINATED STREET NAME SIGNS



NOTE: CONTRACTOR SHALL VERIFY NEW STREET NAME AND BLOCK NUMBERS PRIOR TO ORDERING INTERNALLY ILLUMINATED SIGNS

TYPICAL SIGNAL FACE LENS ARRANGEMENTS



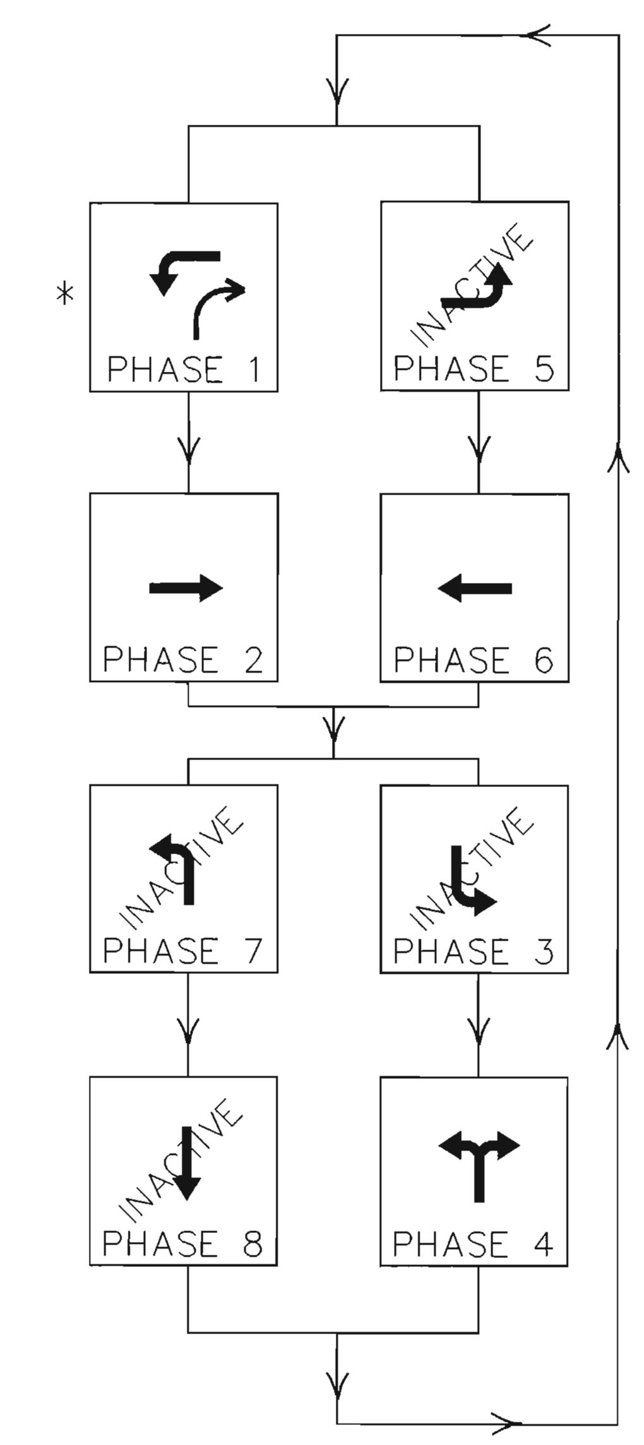
OPTICAL DETECTOR CABLE

FROM	TO	CONDUIT TRACE	TOTAL LENGTH
MA1	CC1	MA1-20-2	100'
MA2	CC1	MA2-22-12-10-8-6-4-2	415'
		TOTAL	515'

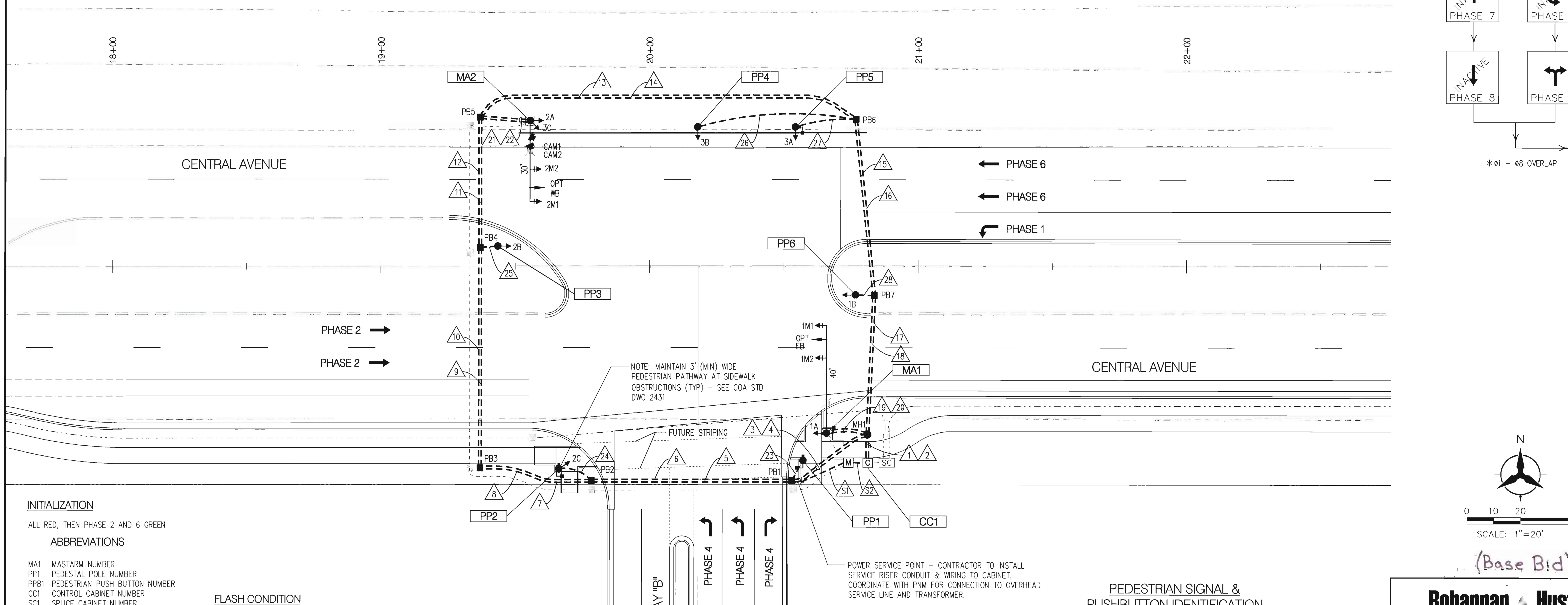
VIDEO DETECTOR CABLE

FROM	TO	CONDUIT TRACE	TOTAL LENGTH
MA2	CC1	MA2-22-12-10-8-6-4-2	430'x2=860'
		TOTAL	860'

SIGNAL PHASING



*Ø1 - Ø8 OVERLAP



(Base Bid)

INITIALIZATION

ALL RED, THEN PHASE 2 AND 6 GREEN

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)
3A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
MH1	TRAFFIC MANHOLE NUMBER

FLASH CONDITION

RED BALL	1A,1B,1M1,1M2 3A,3B,3C
RED BALL	2A,2B,2C,2M1,2M2

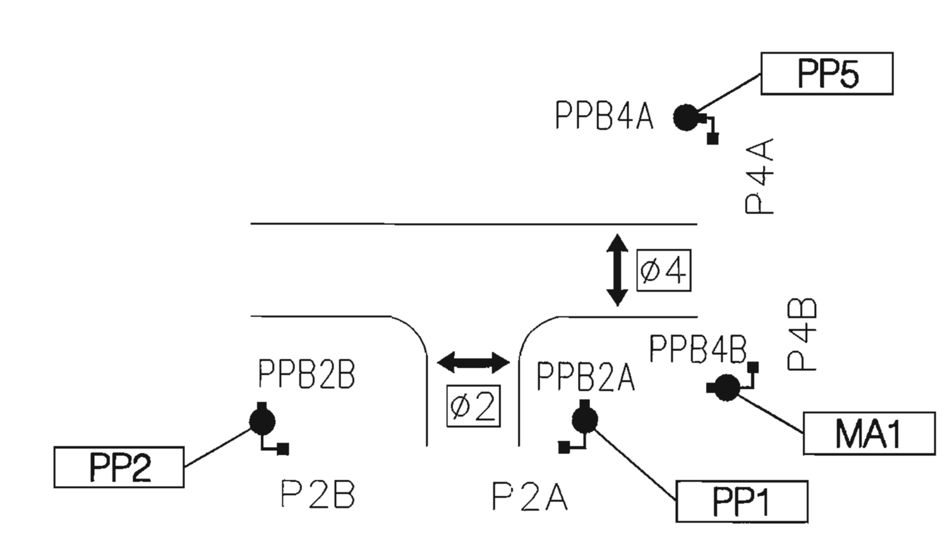
SYMBOL KEY

MAX	SIGNAL & CABINET ID
X (triangle)	CONDUIT RUN ID (SIGNALS)
SX (triangle)	CONDUIT RUN ID (POWER SERVICE)

NOTES

1. PULL BOXES PB1 THRU PB7 ARE LARGE SIZE.
2. SEE SHEET 16 FOR UTILITY INFORMATION.
2. SEE SHEET 23 FOR INTERSECTION LIGHTING PLAN.
3. SEE SHEET 25 FOR INTERCONNECT PLAN.

PEDESTRIAN SIGNAL & PUSHBUTTON IDENTIFICATION



AS-BUILT INFORMATION
CONTRACTOR / WORK STAKED BY Cartesian Surveys Inc. / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY Cartesian Surveys Inc. / DRAWINGS CORRECTED BY / DATE
MICRO-FILM INFORMATION
RECORDED BY / DATE / NO.

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
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GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. / BY / DATE

ENGINEER'S SEAL
KURT D. THORSON, NEW MEXICO, REGISTERED PROFESSIONAL ENGINEER
10/16/08

NO.	DATE	REMARKS	BY
1	11-08	AS-BUILT INFORMATION	YM

REVISIONS

DESIGN		
DESIGNED BY	LAH / KDT	DATE 08/2008
DRAWN BY	LAH	DATE 08/2008
CHECKED BY	KDT	DATE 08/2008

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
TRAFFIC SIGNAL PLAN - CENTRAL AVE / DRIVEWAY "B"

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER		

LAST DESIGN UPDATE

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	20	29

BHI JOB NO. 090147

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Mon, 13-OCT-2008 - 13:50PM, Plotted by: lahinde

RECORD DRAWINGS

CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE						CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE								
RUN ID	SIZE/LENGTH 1"	2"	3"	TYPE	REMARKS	MCC 5 (#@FT)	MCC 7 (#@FT)	MCC 20 (#@FT)	SCC #2 (#@FT)	SCC #8 (#@FT)	PS (#@FT)	OPTICOM (#@FT)	VIDEO CABLE (#@FT)	OTHER (#@FT)
S1		25		REC	POWER TO METER				3 @ 30					
S2		10		REC	METER TO CC1				3 @ 15					
1			15	REC	CC1 TO MH1	2 @ 20		2 @ 20		1 @ 20				
2		15		REC	CC1 TO MH1							2 @ 20	2 @ 20	
3			40	REC	MH1 TO PB1	2 @ 45		2 @ 45		1 @ 45				
4		40		REC	MH1 TO PB1							1 @ 45	2 @ 45	
5			80	REC	PB1 TO PB2	2 @ 85		2 @ 85		1 @ 85				
6		80		REC	PB1 TO PB2							1 @ 85	2 @ 85	
7			45	REC	PB2 TO PB3	2 @ 50		2 @ 50		1 @ 50				
8		45		REC	PB2 TO PB3							1 @ 50	2 @ 50	
9			85	REC	PB3 TO PB4	2 @ 90		2 @ 90		1 @ 90				
10		85		REC	PB3 TO PB4							1 @ 90	2 @ 90	
11			50	REC	PB4 TO PB5	2 @ 55		2 @ 55		1 @ 55				
12		50		REC	PB4 TO PB5							1 @ 55	2 @ 55	
13			145	REC	PB5 TO PB6	2 @ 150		2 @ 150		1 @ 150				
14		145		REC	PB5 TO PB6						1 @ 150			
15			70	REC	PB6 TO PB7	2 @ 75		2 @ 75		1 @ 75				
16		70		REC	PB6 TO PB7						1 @ 75			
17			55	REC	PB7 TO MH1	2 @ 60		2 @ 60		1 @ 60				
18		55		REC	PB7 TO MH1						1 @ 60			
19			20	REC	MA1 TO MH1	5 @ 25								
20		20		REC	MA1 TO MH1						1 @ 25	1 @ 25		
21			20	REC	MA2 TO PB5	4 @ 25								
22		20		REC	MA2 TO PB5							1 @ 25	2 @ 25	
23		15		REC	PP1 TO PB1	2 @ 20								
24		15		REC	PP2 TO PB2	2 @ 20	1 @ 20							
25		15		REC	PP3 TO PB4		1 @ 20							
26		65		REC	PP4 TO PB6	1 @ 70								
27		25		REC	PP5 TO PB6	2 @ 30	1 @ 30							
28		15		REC	PP6 TO PB7	1 @ 20								
MA1					BASE TO 1A	1 @ 15								
MA1					BASE TO 1M1	1 @ 60								
MA1					BASE TO 1M1	1 @ 50								
MA1					BASE TO P2A	1 @ 15								
MA1					BASE TO P8B	1 @ 15								
MA1					BASE TO PPB8B	1 @ 5								
MA1					BASE TO OPTICOM EB							1 @ 55		
MA2					BASE TO 2A	1 @ 15								
MA2					BASE TO 2M1	1 @ 45								
MA2					BASE TO 2M2	1 @ 45								
MA2					BASE TO 2C	1 @ 15								
MA2					BASE TO OPTICOM WB							1 @ 45		
MA2					BASE TO CAM1								1 @ 60	
MA2					BASE TO CAM2								1 @ 60	
PP1					BASE TO P2A	1 @ 15								
PP1					BASE TO PPB2A	1 @ 5								
PP2					BASE TO 2C		1 @ 15							
PP2					BASE TO P2B	1 @ 15								
PP2					BASE TO PPB2B	1 @ 5								
PP3					BASE TO 2B		1 @ 15							
PP4					BASE TO 3B	1 @ 15								
PP5					BASE TO 3A		1 @ 15							
PP5					BASE TO P8A	1 @ 15								
PP5					BASE TO PPB8A	1 @ 5								
PP6					BASE TO 1B	1 @ 15								
TOTALS	0	810	625			2085	115	1260	135	630	310	515	860	0

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BHI JOB NO. 090147

(Base Bid)

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
KURT D. THORSON
NEW MEXICO
13318
REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. DATE REMARKS BY

DESIGN
DESIGNED BY LAH / KDT DATE 08/2008
DRAWN BY LAH DATE 08/2008
CHECKED BY KDT DATE 08/2008

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
CONDUITS & CABLES - CENTRAL AVE / DRIVEWAY "B"

DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
MO./DAY/YR. MO./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT NO. 735684
ZONE MAP NO. K-9 K-10
SHEET 21 OF 29

RECORD DRAWINGS

DETECTOR LOOPS

LOOP ID	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
	MODE	CALL	UNIT NO	CHANNEL		L	W	S	T		

THIS INTERSECTION REQUIRES VIDEO DETECTION

DETECTOR RACK ASSIGNMENTS

UNIT NUMBER →	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1 →		Ø1	Ø2	Ø6	Ø2 EC	Ø3	Ø4	Ø8	Ø4 EC	DUAL LEFT Ø1	DUAL LEFT Ø3	SD 1	SD 3	SD 5	SD 7	SD 9	PED ISOLATION	OPTICOM 1	OPTICOM 3
CHANNEL 2 →		Ø5	Ø2	Ø6	Ø6 EC	Ø7	Ø4	Ø8	Ø8 EC	DUAL LEFT Ø5	DUAL LEFT Ø7	SD 2	SD 4	SD 6	SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED →	*																✓	✓	✓

* INCIDENTAL TO CONSTRUCTION

FUNCTION CHART – 115 VOLT CIRCUIT 1⁄

CONDUCTOR NUMBER	BASE COLOR	TRACER	RING 1 – MULTI CONDUCTOR CABLE 20: FUNCTION	RING 1: FIELD CONNECTION	RING 2 – MULTI CONDUCTOR CABLE 20 2⁄: FUNCTION	RING 2: FIELD CONNECTION
1	BLACK	–	SPARE	SPARE	SPARE	SPARE
2	WHITE	–	SPARE	SPARE	SPARE	SPARE
3	RED	–	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	–	PHASE 1 GREEN	GREEN LEFT TURN ARROW 2B, 2C	PHASE 5 GREEN	SPARE
5	ORANGE	–	PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 2B, 2C	PHASE 5 YELLOW	SPARE
6	BLUE	–	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 1A, 1B, 1M1, 1M2	PHASE 6 RED	RED BALL 2A, 2B, 2C, 2M1, 2M2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 1A, 1B, 1M1, 1M2	PHASE 6 GREEN	GREEN BALL 2A, 2B, 2C, 2M1, 2M2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 1A, 1B, 1M1, 1M2	PHASE 6 YELLOW	YELLOW BALL 2A, 2B, 2C, 2M1, 2M2
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P2A, P2B	PHASE 6 WALK	SPARE
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P2A, P2B	PHASE 6 DON'T WALK	SPARE
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	SPARE	PHASE 7 GREEN	SPARE
15	BLUE	WHITE	PHASE 3 YELLOW	SPARE	PHASE 7 YELLOW	SPARE
16	BLACK	RED	PHASE 4 RED	RED BALL 3A, 3B, 3C	PHASE 8 RED	SPARE
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 3A, 3B, 3C	PHASE 8 GREEN	SPARE
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 3A, 3B, 3C	PHASE 8 YELLOW	SPARE
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P4A, P4B	PHASE 8 WALK	SPARE
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P4A, P4B	PHASE 8 DON'T WALK	SPARE

FUNCTION CHART – 24 VOLT CIRCUIT 3⁄

CONDUCTOR NUMBER	BASE COLOR	RING 1-MULTI CONDUCTOR CABLE 5: FUNCTION	RING 1: FIELD CONNECTION	RING 2-MULTI CONDUCTOR CABLE 5: FUNCTION	RING 2: FIELD CONNECTION
1	BLACK	PHASE 2	PPB2A, PPB2B	SPARE	
2	WHITE	COMMON	PPB2A, 2B, 4A, 4B	COMMON	
3	RED	PHASE 4	PPB4A, PPB4B	SPARE	
4	GREEN	SPARE		SPARE	
5	ORANGE	SPARE		SPARE	

NOTES:

1⁄ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS".

2⁄ WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE AND LOCATED 6" BACK FROM THE END.

3⁄ IDENTIFY CONDUCTORS LISTED AS "PPB – LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.

(Base Bid)

AS-BUILT INFORMATION
CONTRACTOR Franklin's Earthmoving DATE 09/09
WORK STAKED BY Cartesian Surveys Inc. DATE 1/09–8/09
INSPECTOR'S ACCEPTANCE BY COA DATE 09/09
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 8/09
DRAWINGS CORRECTED BY Franklin's Earthmoving DATE 09/09
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
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DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
KURT D. THORSON, NEW MEXICO, 13310, REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY LAH / KDT DATE 08/2008
DRAWN BY LAH DATE 08/2008
CHECKED BY KDT DATE 08/2008

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
FUNCTIONS & DETECTORS - CENTRAL AVE / DRIVEWAY "B"

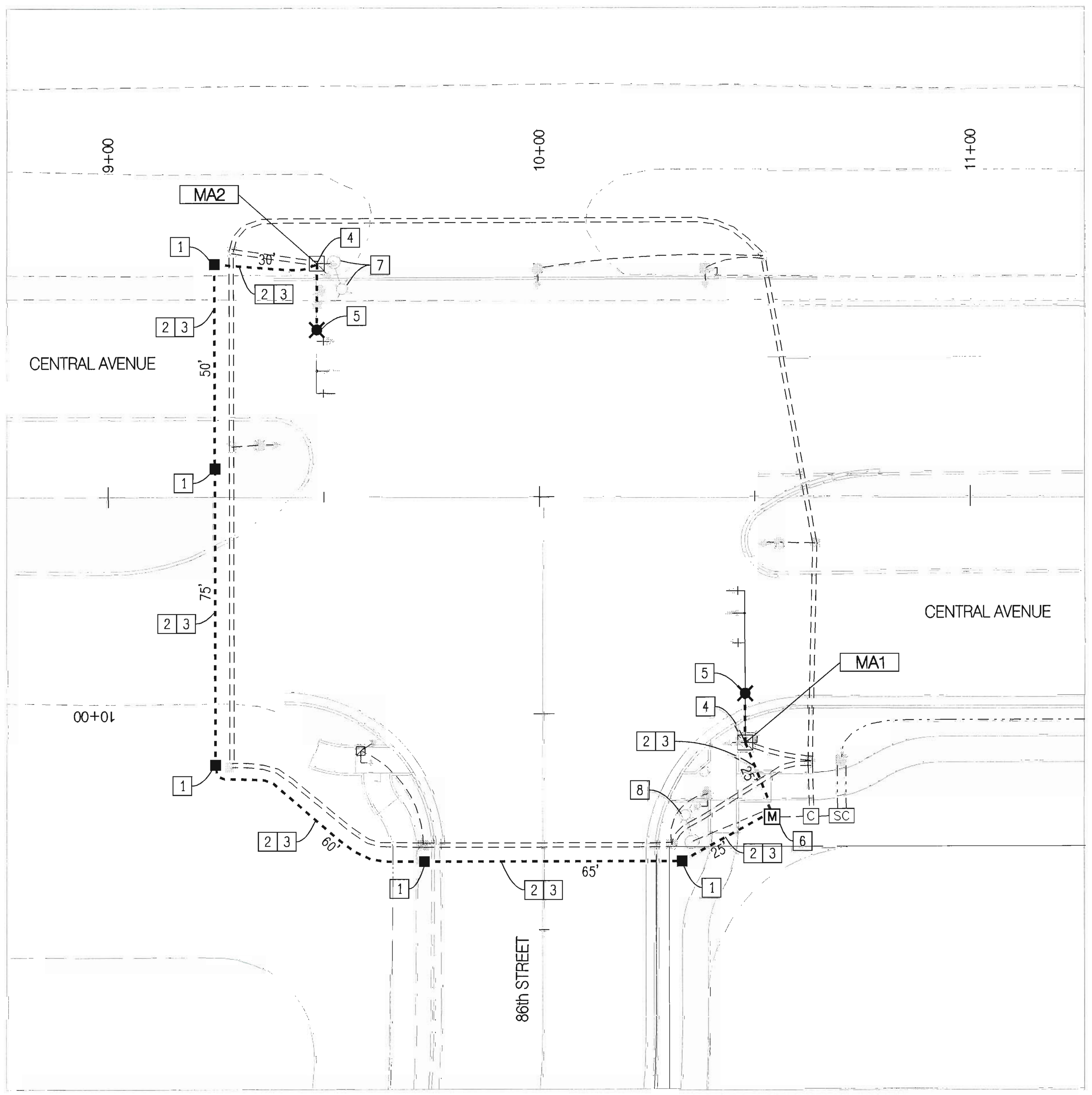
DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
MO./DAY/YR. | MO./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT NO. 735684 | ZONE MAP NO. K-9 K-10 | SHEET 22 OF 29

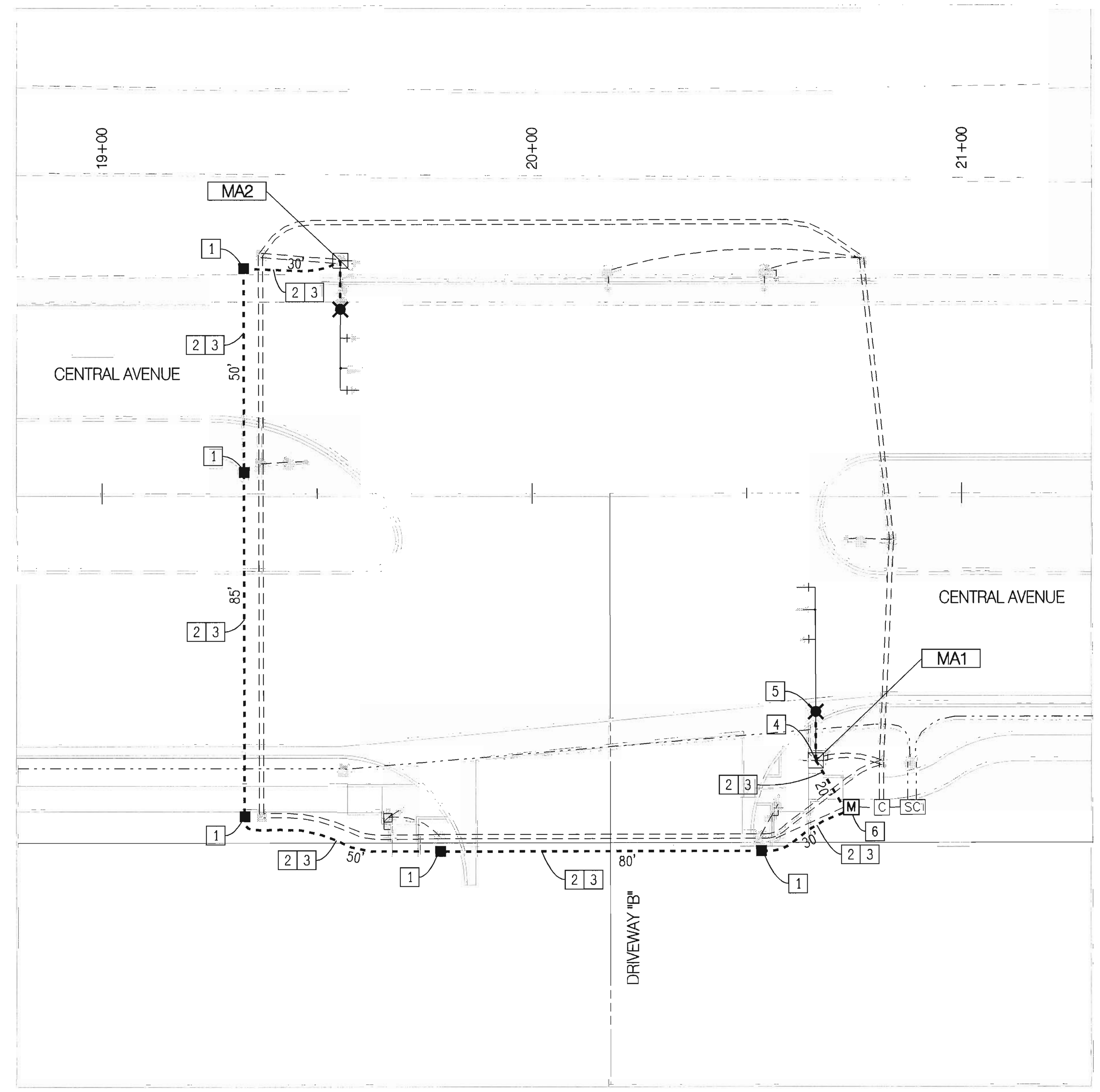
BHI JOB NO. 090147

P:\090147\Trans\Design\Signal\090147-FD-Entrance.sht
Mon, 13-OCT-2008 – 13:50PM, Plotted by: lahinde

RECORD DRAWINGS



CENTRAL AVENUE / 86th STREET



CENTRAL AVENUE / DRIVEWAY "B"

N

0 10 20 40

SCALE: 1"=20'

(Base Bid)

KEYED NOTES

1 INSTALL NEW ELECTRICAL PULL BOX (STANDARD)

2 INSTALL NEW RIGID ELECTRICAL CONDUIT - 2"

3 INSTALL TWO SINGLE CONDUCTOR WIRES #2 AWG COPPER IN CONDUIT

4 INSTALL TWO SINGLE CONDUCTOR WIRES #10 AWG COPPER FROM MASTARM BASE TO LUMINAIRE

5 INSTALL ROADWAY LIGHTING LUMINAIRE, HIGH PRESSURE SODIUM, 400 WATT, 240 VOLT, FLAT GLASS, CUT-OFF ON TYPE III STANDARD

6 CONNECT TO LIGHTING CIRCUIT AT METER PEDESTAL

7 REMOVE AND SALVAGE EXISTING POLE AND LUMINAIRE. COORDINATE THIS WORK WITH PNM

8 REMOVE AND SALVAGE EXISTING LUMINAIRE. COORDINATE THIS WORK WITH PNM

NOTES

1. ALL NEW EQUIPMENT INCLUDING PULL BOXES AND CONDUIT SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY.

AS-BUILT INFORMATION

CONTRACTOR / WORK STAKED BY Cartesian Surveys Inc. DATE

INSPECTOR'S ACCEPTANCE BY DATE

FIELD VERIFICATION BY Cartesian Surveys Inc. DATE

DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS ALUMINUM DISC STAMPED "14-K9 2002"

GEOGRAPHIC POSITION (NAD 83)

N.M. STATE PLANE COORDINATES (CENTRAL ZONE)

N=1482352.731 E=1496702.894

GROUND TO GRID = 0.999682780

DELTA ALPHA = -00°16'33.63"

NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

KURT D. THORSON · NEW MEXICO · PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		
DESIGNED BY	LAH / KDT	DATE 08/2008
DRAWN BY	LAH	DATE 08/2008
CHECKED BY	KDT	DATE 08/2008

Bohannan ▲ Huston inc

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
INTERSECTION LIGHTING PLANS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL		MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER	LAST DESIGN UPDATE		

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	23	29

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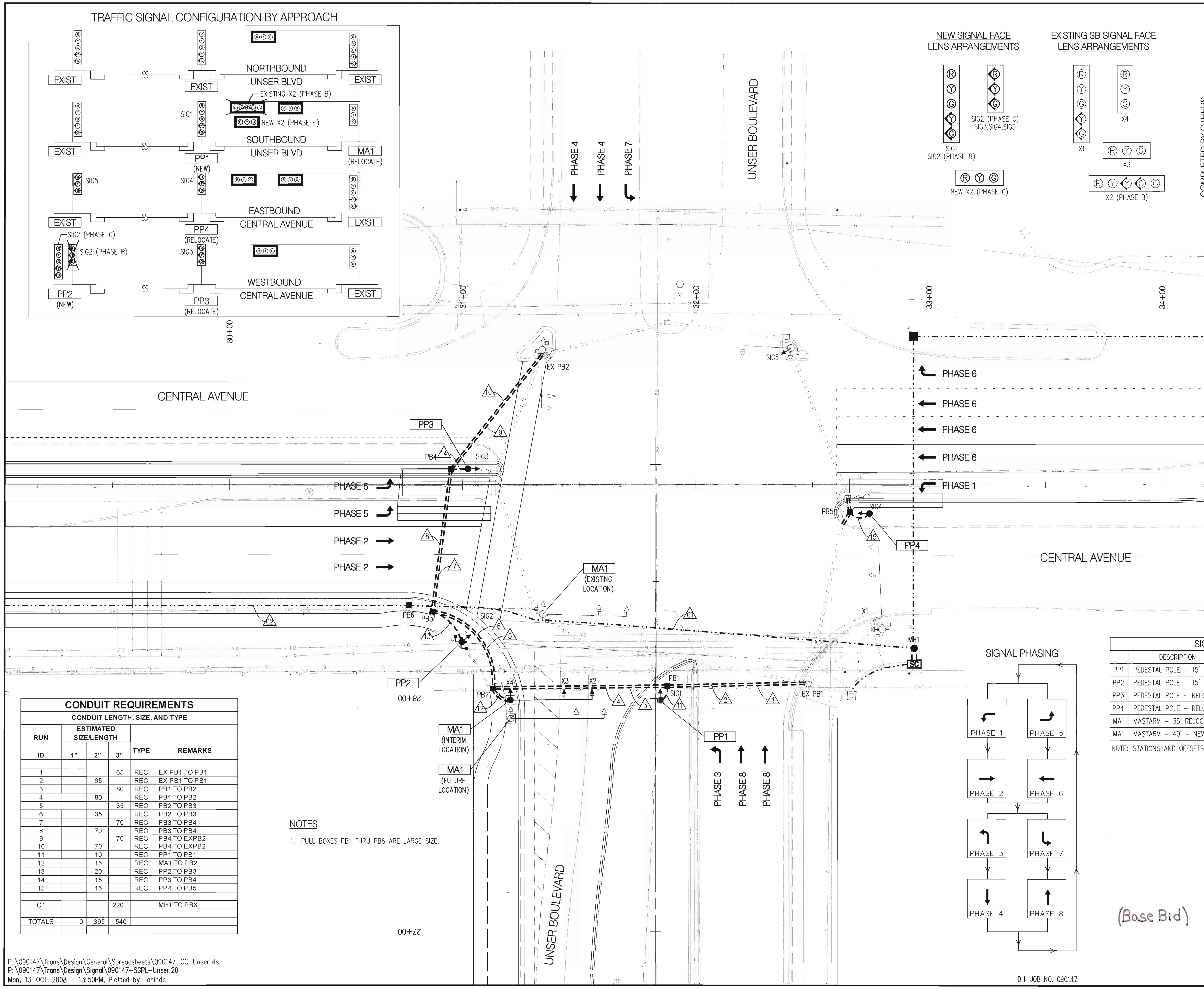
BHI JOB NO. 090147



CONDUIT REQUIREMENTS					
CONDUIT LENGTH, SIZE, AND TYPE					
RUN ID	ESTIMATED SIZE/LENGTH 1"	2"	3"	TYPE	REMARKS
1			65	REC	EX PB1 TO PB1
2		65		REC	EX PB1 TO PB1
3			80	REC	PB1 TO PB2
4		80		REC	PB1 TO PB2
5			35	REC	PB2 TO PB3
6		35		REC	PB2 TO PB3
7			70	REC	PB3 TO PB4
8		70		REC	PB3 TO PB4
9			70	REC	PB4 TO EXPB2
10		70		REC	PB4 TO EXPB2
11		10		REC	PP1 TO PB1
12		15		REC	MA1 TO PB2
13		20		REC	PP2 TO PB3
14		15		REC	PP3 TO PB4
15		15		REC	PP4 TO PB5
C1			220		MH1 TO PB6
TOTALS	0	395	540		

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SEQUENCE OF CONSTRUCTION

COMPLETED BY OTHERS

PHASE A

1. CONTRACTOR TO INSTALL PB1, AND PB2. INTERCEPT EX PB1 AND INSTALL CONDUITS 1, 2, 3, AND 4. WIRING TO BE INSTALLED IN PHASE 3 BY COA.
2. CONTRACTOR TO INSTALL MH1, PB6 AND CONDUIT C1 FOR INTERCONNECT. COMMUNICATION CABLE TO BE INSTALLED IN PHASE 3.

PHASE B

1. COA TO REMOVE AND RESET EXISTING MASTARM 1 TO INTERIM LOCATION SHOWN. TEMPORARY WIRING TO BE INSTALLED IN CONDUITS AND CONNECTED TO RELOCATED MASTARM BY COA.
2. CONTRACTOR TO COMPLETE CURB RETURN AND SIDEWALK AT SW CORNER. COORDINATE INSTALLATION OF PP2 WITH COA TO ENSURE FLUSH INSTALLATION OF FOUNDATION WITH SIDEWALK.
3. COA TO INSTALL PP2 WITH PEDESTRIAN PUSH BUTTON STATIONS AND COUTDOWN HEADS. INSTALL TEMPORARY CONDUITS AND WIRING AS NEEDED.

PHASE C

1. CONTRACTOR TO BORE AND JACK NEW CONDUITS 7, 8, 9 AND 10 (INTERCEPT EX PB2). INSTALL PB3 AND PB4. INTERCEPT EXISTING CONDUITS NEAR PP4 AND INSTALL PB5. EXTEND CONDUITS IN KIND FROM NEW PB5 TO INTERCEPTION POINTS.
2. CONTRACTOR SHALL COORDINATE MEDIAN NOSE CONSTRUCTION, MEDIAN POLE RELOCATIONS AND REPLACEMENT OF SIGNAL HEADS WITH THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DIVISION AND PROVIDE SCHEDULE OF WORK AND NOTIFICATION OF NEEDED RELOCATIONS AT LEAST 2 WEEKS IN ADVANCE.
3. COA TO REMOVE AND RESET PP3 AND PP4 TO NEW LOCATIONS AND CONNECT WITH CONDUITS AND WIRING AS NEEDED. CONNECT TO NEW PB4 AND PB5. REMOVE AND SALVAGE EXISTING 5-SECTION SIGNAL HEADS. INSTALL NEW 3-SECTION PROTECTED SIGNAL HEADS (SIG2, SIG3, SIG4 AND SIG5). COA TO INSTALL NEW PERMANENT WIRING THROUGHOUT INTERSECTION AS NEEDED.
4. COA TO REMOVE AND SALVAGE EXISTING 5-SECTION HEAD X2 AND REPLACE WITH NEW 3-SECTION HEAD.
5. CONTRACTOR TO INSTALL NEW PP1 WITH 5-SECTION SIGNAL HEAD (SIG1).
6. COA TO INSTALL NEW DETECTOR LOOPS AS NEEDED AND CONNNECT TO SIGNAL SYSTEM FOR PHASE 1 AND PHASE 5 LEFT TURNS.

PHASE D

1. COA TO INSTALL NEW 40' MASTARM AND CONNECT TO EXISTING SIGNAL SYSTEM WITH CONDUIT AND WIRING AS NEEDED. REMOVE AND SALVAGE INTERIM MA1 (35').

SIGNAL POLES AND MASTARMS					
	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING
PP1	PEDESTAL POLE - 15' - NEW	31+84.73	92.35' RT	1484053.81	1499424.91
PP2	PEDESTAL POLE - 15' - NEW	30+99.70	67.23' RT	1484056.03	1499336.27
PP3	PEDESTAL POLE - RELOCATED	31+02.28	6.71' LT	1484128.12	1499319.60
PP4	PEDESTAL POLE - RELOCATED	32+74.45	12.39' RT	1484154.29	1499490.85
MA1	MASTARM - 35' RELOCATED	31+20.58	92.14' RT	1484037.39	1499362.90
MA1	MASTARM - 40' - NEW	31+20.79	100.00' RT	1484029.85	1499365.14

NOTE: STATIONS AND OFFSETS SHOWN ARE FROM THE CENTRAL AVENUE ALIGNMENT

(Base Bid)

BHI JOB NO. 090147

AS-BUILT INFORMATION
CONTRACTOR / WORK STAKED BY Cartesian Surveys Inc. / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY Cartesian Surveys Inc. / DRAWINGS CORRECTED BY

MICRO-FILM INFORMATION
RECORDED BY / NO. / DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
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GROUND TO GRID = 0.999682780
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SURVEY INFORMATION
FIELD NOTES — NO. / BY / DATE

ENGINEER'S SEAL
KURT D. THORSON — NEW MEXICO — 13310 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS — NO. / DATE / REMARKS / BY

DESIGN
DESIGNED BY LAH / KDT — DATE 08/2008
DRAWN BY LAH — DATE 08/2008
CHECKED BY KDT — DATE 08/2008

Bohannan ▲ Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

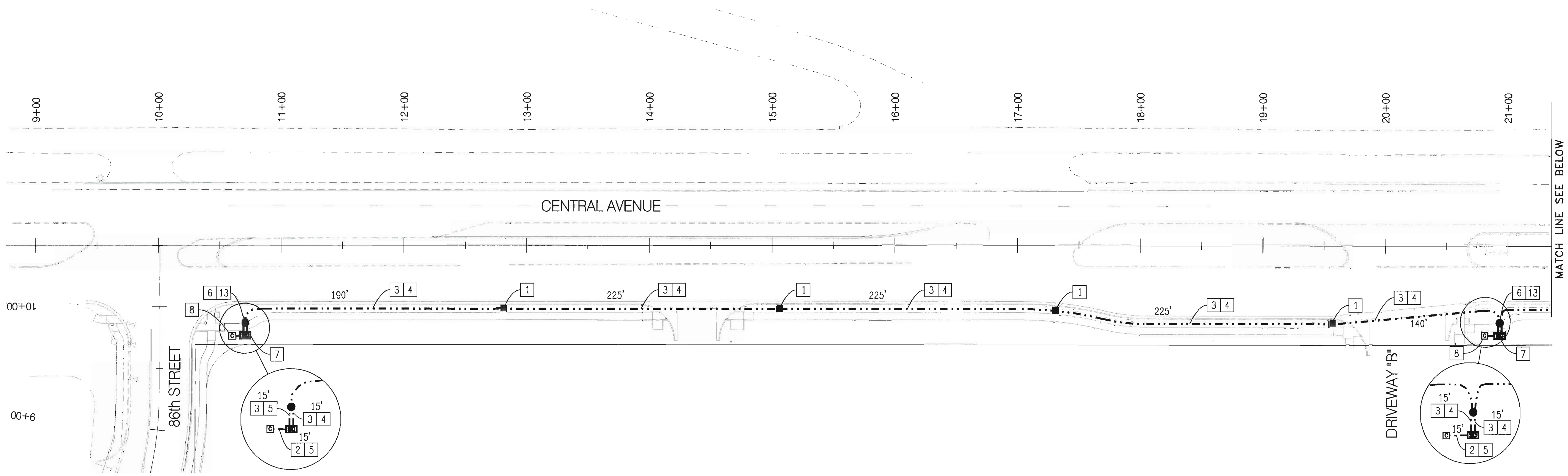
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

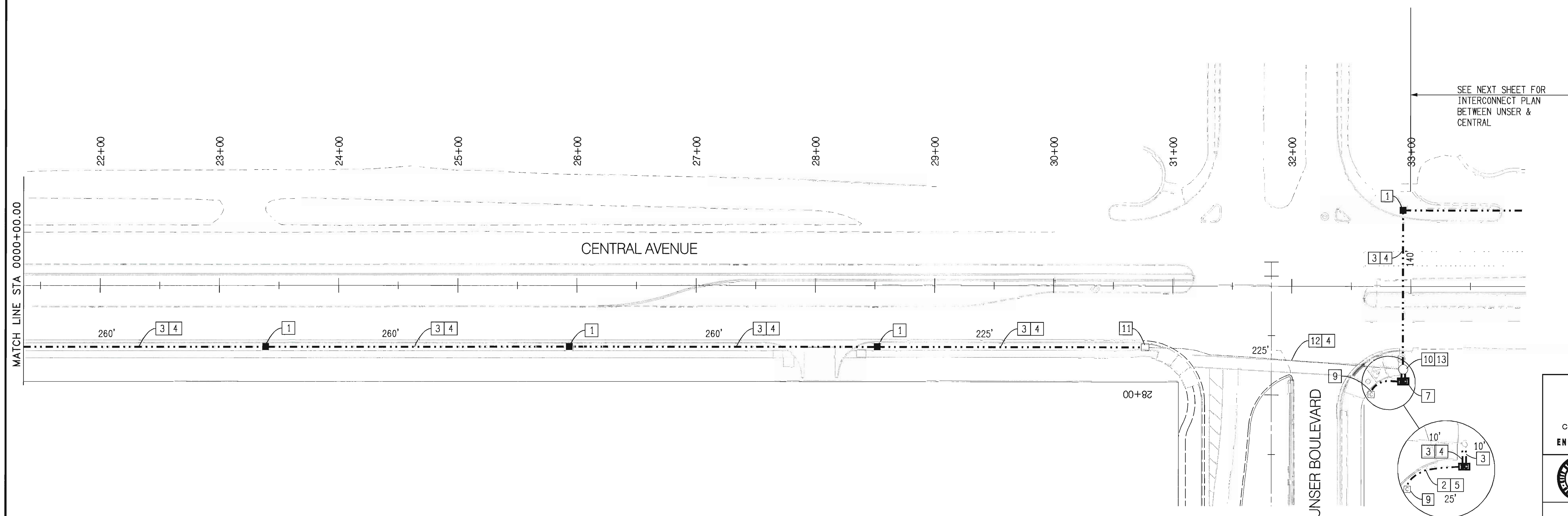
OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
SIGNAL MODIFICATION PLAN - CENTRAL AVE / UNSER BOULEVARD

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
OCT 30 2008 DESIGN REVIEW COMMITTEE	OCT 31 2008 CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	24	29

RECORD DRAWINGS





KEYED NOTES

1. INSTALL NEW ELECTRICAL PULL BOX (LARGE)
2. INSTALL NEW RIGID ELECTRICAL CONDUIT – 2"
3. INSTALL NEW RIGID ELECTRICAL CONDUIT – 3"
4. INSTALL COMMUNICATION CABLE 12 PAIR
5. INSTALL NEW COMMUNICATION CABLE 6 PAIR
6. INSTALL NEW TRAFFIC MANHOLE
7. INSTALL NEW SPLICE CABINET
8. CONNECT TO NEW CONTROLLER
9. CONNECT TO EXISTING CONTROLLER
10. EXISTING MANHOLE TO REMAIN
11. EXISTING PULL BOX TO REMAIN
12. EXISTING CONDUIT TO REMAIN
13. COIL 50' OF 12 PAIR COMMUNICATION CABLE IN MANHOLE

NOTES

1. ALL NEW EQUIPMENT INCLUDING PULL BOXES, CONDUIT, SPLICE CABINETS AND MANHOLES SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY, BETWEEN THE SIDEWALK AND CURB WHEREVER POSSIBLE.
2. CONDUITS INSTALLED THAT ARE CROSSING PAVED ROADS SHALL BE BORED.

N

SCALE: 1"=50' (0 25 50 100)

(Base Bid)

AS-BUILT INFORMATION
CONTRACTOR / WORK STAKED BY Cartesian Surveys Inc. / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY Cartesian Surveys Inc. / DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO. — DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
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SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
KURT D. THORSON, NEW MEXICO, REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		
DESIGNED BY	LAH / KDT	DATE 08/2008
DRAWN BY	LAH	DATE 08/2008
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Bohannan Huston Inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
INTERCONNECT PLAN - CENTRAL AVE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL		MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER	LAST DESIGN UPDATE		

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	25	29

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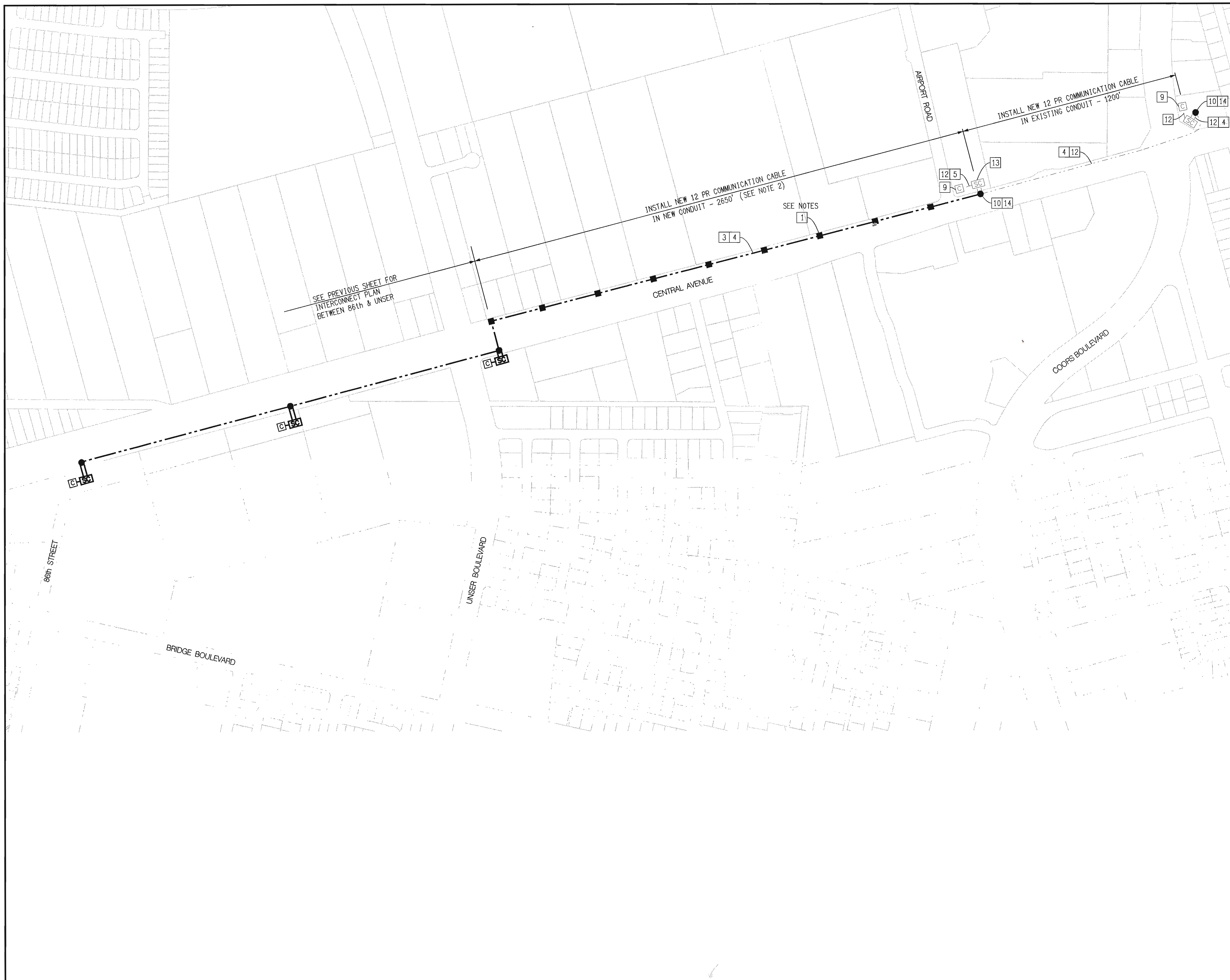
BHI JOB NO. 090147

RECORD DRAWINGS



KEYED NOTES

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8. CONNECT TO NEW CONTROLLER
9. CONNECT TO EXISTING CONTROLLER
10. EXISTING MANHOLE TO REMAIN
11. EXISTING PULL BOX TO REMAIN
12. EXISTING CONDUIT TO REMAIN
13. EXISTING SPLICE CABINET TO REMAIN
14. COIL 50' OF 12 PAIR COMMUNICATION CABLE IN MANHOLE

NOTES

1. ALL NEW EQUIPMENT INCLUDING PULL BOXES, CONDUIT, SPLICE CABINETS AND MANHOLES SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY.
2. PULL BOXES BETWEEN UNSER BOULEVARD AND AIRPORT ROAD SHALL BE INSTALLED AT 300' MAX. APART. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS IN THE FIELD WITH THE CITY OF ALBUQUERQUE TO AVOID DRIVEWAYS, ACCESS RAMPS AND OTHER FEATURES. WHERE POSSIBLE, CONDUIT SHALL BE PLACED BETWEEN THE EXISTING SIDEWALK AND CURB.

(Base Bid)

Bohannan ▲ Huston Inc.

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
INTERCONNECT PLAN - CENTRAL AVE

AS-BUILT INFORMATION: CONTRACTOR; WORK STAKED BY Cartesian Surveys Inc.; INSPECTOR'S ACCEPTANCE BY; FIELD VERIFICATION BY Cartesian Surveys Inc.; DRAWINGS CORRECTED BY; DATE

MICRO-FILM INFORMATION: RECORDED BY; DATE; NO.

BENCH MARKS: ACS ALUMINUM DISC STAMPED "14-K9 2002" GEOGRAPHIC POSITION (NAD 83) N.M. STATE PLANE COORDINATES (CENTRAL ZONE) N=1482352.731 E=1496702.894 GROUND TO GRID = 0.999682780 DELTA ALPHA = -0016'33.63" NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION — FIELD NOTES: NO. | BY | DATE

ENGINEER'S SEAL: KURT D. THORSON, NEW MEXICO, 13310, REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN		
DESIGNED BY	LAH / KDT	DATE 08/2008
DRAWN BY	LAH	DATE 08/2008
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DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE	APPROVED OCT 31 2008 CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	26	29

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BHI JOB NO. 090147

LOCATION OF SPLICE CABINET CENTRAL AVENUE AND 86th STREET

TERMINAL BLOCK (A)

	CIRCUIT NUMBER	WIRE COLOR	CROSS CONNECTIONS				
			UPSTREAM CABLE *	CONT. CABLE **	DOWNSTREAM CABLES ***	****	*****
TWISTED PAIR 1<		W	1	1			
		BE	2	2			
TWISTED PAIR 2<		W	3	3			
		O	4	4			
TWISTED PAIR 3<		W	5				
		G	6				
TWISTED PAIR 4<		W	7				
		BN	8				
TWISTED PAIR 5<		W	9				
		GY	10				
TWISTED PAIR 6<		R	11				
		BE	12				
TWISTED PAIR 7<		R	13				
		O	14				
TWISTED PAIR 8<		R	15				
		G	16				
TWISTED PAIR 9<		R	17				
		BN	18				
TWISTED PAIR 10<		R	19				
		GY	20				
TWISTED PAIR 11<		BK	21				
		BE	22				
TWISTED PAIR 12<		BK	23				
		O	24				
TWISTED PAIR 13<		BK	25				
		G	26				
TWISTED PAIR 14<		BK	27				
		BN	28				
TWISTED PAIR 15<		BK	29				
		GY	30				
TWISTED PAIR 16<		Y	31				
		BE	32				
TWISTED PAIR 17<		Y	33				
		O	34				
TWISTED PAIR 18<		Y	35				
		G	36				
TWISTED PAIR 19<		Y	37				
		BN	38				
TWISTED PAIR 20<		Y	39				
		GY	40				
TWISTED PAIR 21<		P	41				
		BE	42				
TWISTED PAIR 22<		P	43				
		O	44				
TWISTED PAIR 23<		P	45				
		G	46				
TWISTED PAIR 24<		P	47				
		BN	48				
TWISTED PAIR 25<		P	49				
		GY	50				

CABLE IDENTIFICATION
* UPSTREAM CABLE FROM CENTRAL AND UNSER CROSSING DRIVEWAY XX PR
** CONTROLLER CABLE PROVIDES THE CIRCUIT TO MODEM IN THE SIGNAL CABINET
*** DOWNSTREAM CABLE PROVIDES CIRCUITS TO N/A AND N/A XX PR
**** DOWNSTREAM CABLE PROVIDES CIRCUITS TO N/A AND N/A XX PR
***** N/A

NOTE: TERMINAL BLOCK (B) NOT USED OR SHOWN

SPLICE DETAILS SHOWN WERE PROVIDED BY COA TRAFFIC OPERATIONS.
CONTRACTOR SHALL COMPLETE INTERCONNECT SPLICES AS SHOWN
AND CONSULT WITH COA TRAFFIC OPERATIONS STAFF PRIOR TO COMPLETION.

LOCATION OF SPLICE CABINET CENTRAL AVENUE AND UNSER CROSSING DRIVEWAY

TERMINAL BLOCK (A)

	CIRCUIT NUMBER	WIRE COLOR	CROSS CONNECTIONS				
			UPSTREAM CABLE *	CONT. CABLE **	DOWNSTREAM CABLES ***	****	*****
TWISTED PAIR 1<		W	1	1	1		
		BE	2	2	2		
TWISTED PAIR 2<		W	3	3	3		
		O	4	4	4		
TWISTED PAIR 3<		W	5				
		G	6				
TWISTED PAIR 4<		W	7				
		BN	8				
TWISTED PAIR 5<		W	9				
		GY	10				
TWISTED PAIR 6<		R	11				
		BE	12				
TWISTED PAIR 7<		R	13				
		O	14				
TWISTED PAIR 8<		R	15				
		G	16				
TWISTED PAIR 9<		R	17				
		BN	18				
TWISTED PAIR 10<		R	19				
		GY	20				
TWISTED PAIR 11<		BK	21				
		BE	22				
TWISTED PAIR 12<		BK	23				
		O	24				
TWISTED PAIR 13<		BK	25				
		G	26				
TWISTED PAIR 14<		BK	27				
		BN	28				
TWISTED PAIR 15<		BK	29				
		GY	30				
TWISTED PAIR 16<		Y	31				
		BE	32				
TWISTED PAIR 17<		Y	33				
		O	34				
TWISTED PAIR 18<		Y	35				
		G	36				
TWISTED PAIR 19<		Y	37				
		BN	38				
TWISTED PAIR 20<		Y	39				
		GY	40				
TWISTED PAIR 21<		P	41				
		BE	42				
TWISTED PAIR 22<		P	43				
		O	44				
TWISTED PAIR 23<		P	45				
		G	46				
TWISTED PAIR 24<		P	47				
		BN	48				
TWISTED PAIR 25<		P	49				
		GY	50				

CABLE IDENTIFICATION
* UPSTREAM CABLE FROM CENTRAL AND UNSER XX PR
** CONTROLLER CABLE PROVIDES THE CIRCUIT TO MODEM IN THE SIGNAL CABINET
*** DOWNSTREAM CABLE PROVIDES CIRCUITS TO CENTRAL AND 86th 12 PR
**** DOWNSTREAM CABLE PROVIDES CIRCUITS TO N/A AND N/A XX PR
***** N/A

NOTE: TERMINAL BLOCK (B) NOT USED OR SHOWN

LOCATION OF SPLICE CABINET CENTRAL AVENUE AND UNSER BOULEVARD

TERMINAL BLOCK (A)

	CIRCUIT NUMBER	WIRE COLOR	CROSS CONNECTIONS				
			UPSTREAM CABLE *	CONT. CABLE **	DOWNSTREAM CABLES ***	****	*****
TWISTED PAIR 1<		W	1	1	1		
		BE	2	2	2		
TWISTED PAIR 2<		W	3	3	3		
		O	4	4	4		
TWISTED PAIR 3<		W	5				
		G	6				
TWISTED PAIR 4<		W	7				
		BN	8				
TWISTED PAIR 5<		W	9				
		GY	10				
TWISTED PAIR 6<		R	11				
		BE	12				
TWISTED PAIR 7<		R	13				
		O	14				
TWISTED PAIR 8<		R	15				
		G	16				
TWISTED PAIR 9<		R	17				
		BN	18				
TWISTED PAIR 10<		R	19				
		GY	20				
TWISTED PAIR 11<		BK	21				
		BE	22				
TWISTED PAIR 12<		BK	23				
		O	24				
TWISTED PAIR 13<		BK	25				
		G	26				
TWISTED PAIR 14<		BK	27				
		BN	28				
TWISTED PAIR 15<		BK	29				
		GY	30				
TWISTED PAIR 16<		Y	31				
		BE	32				
TWISTED PAIR 17<		Y	33				
		O	34				
TWISTED PAIR 18<		Y	35				
		G	36				
TWISTED PAIR 19<		Y	37				
		BN	38				
TWISTED PAIR 20<		Y	39				
		GY	40				
TWISTED PAIR 21<		P	41				
		BE	42				
TWISTED PAIR 22<		P	43				
		O	44				
TWISTED PAIR 23<		P	45				
		G	46				
TWISTED PAIR 24<		P	47				
		BN	48				
TWISTED PAIR 25<		P	49				
		GY	50				

CABLE IDENTIFICATION
* UPSTREAM CABLE FROM CENTRAL AND AIRPORT XX PR
** CONTROLLER CABLE PROVIDES THE CIRCUIT TO MODEM IN THE SIGNAL CABINET
*** DOWNSTREAM CABLE PROVIDES CIRCUITS TO CENTRAL AND UNSER CROSSING DRIVEWAY 12 PR
**** DOWNSTREAM CABLE PROVIDES CIRCUITS TO N/A AND N/A XX PR
***** N/A

NOTE: TERMINAL BLOCK (B) NOT USED OR SHOWN

LOCATION OF SPLICE CABINET CENTRAL AVENUE AND AIRPORT DRIVE

TERMINAL BLOCK (A)

	CIRCUIT NUMBER	WIRE COLOR	CROSS CONNECTIONS				
			UPSTREAM CABLE *	CONT. CABLE **	DOWNSTREAM CABLES ***	****	*****
TWISTED PAIR 1<		W	1	1	1		
		BE	2	2	2		
TWISTED PAIR 2<		W	3	3	3		
		O	4	4	4		
TWISTED PAIR 3<		W	5				
		G	6				
TWISTED PAIR 4<		W	7				
		BN	8				
TWISTED PAIR 5<		W	9				
		GY	10				
TWISTED PAIR 6<		R	11				
		BE	12				
TWISTED PAIR 7<		R	13				
		O	14				
TWISTED PAIR 8<		R	15				
		G	16				
TWISTED PAIR 9<		R	17				
		BN	18				
TWISTED PAIR 10<		R	19				
		GY	20				
TWISTED PAIR 11<		BK	21				
		BE	22				
TWISTED PAIR 12<		BK	23				
		O	24				
TWISTED PAIR 13<		BK	25				
		G	26				
TWISTED PAIR 14<		BK	27				
		BN	28				
TWISTED PAIR 15<		BK	29				
		GY	30				
TWISTED PAIR 16<		Y	31				
		BE	32				
TWISTED PAIR 17<		Y	33				
		O	34				
TWISTED PAIR 18<		Y	35				
		G	36				
TWISTED PAIR 19<		Y	37				
		BN	38				
TWISTED PAIR 20<		Y	39				
		GY	40				
TWISTED PAIR 21<		P	41				
		BE	42				
TWISTED PAIR 22<		P	43				
		O	44				
TWISTED PAIR 23<		P	45				
		G	46				
TWISTED PAIR 24<		P	47				
		BN	48				
TWISTED PAIR 25<		P	49				
		GY	50				

CABLE IDENTIFICATION
* UPSTREAM CABLE FROM CENTRAL AND COORS XX PR
** CONTROLLER CABLE PROVIDES THE CIRCUIT TO MODEM IN THE SIGNAL CABINET
*** DOWNSTREAM CABLE PROVIDES CIRCUITS TO CENTRAL AND UNSER XX PR
**** DOWNSTREAM CABLE PROVIDES CIRCUITS TO N/A AND N/A XX PR
***** N/A

NOTE: TERMINAL BLOCK (B) NOT USED OR SHOWN

LOCATION OF SPLICE CABINET CENTRAL AVENUE AND COORS BOULEVARD

TERMINAL BLOCK (A)

	CIRCUIT NUMBER	WIRE COLOR	CROSS CONNECTIONS				
			UPSTREAM CABLE *	CONT. CABLE **	DOWNSTREAM CABLES ***	****	*****
TWISTED PAIR 1<		W	1	1	1	1	
		BE	2	2	2	2	
TWISTED PAIR 2<		W	3	3	3	4	
		O	4	4	4	3	
TWISTED PAIR 3<		W	5		(-->NB)	(-->SB)	
		G	6		(Exist. Cond. to remain)		
TWISTED PAIR 4<		W	7				
		BN	8				
TWISTED PAIR 5<		W	9				
		GY	10				
TWISTED PAIR 6<		R	11				
		BE	12				
TWISTED PAIR 7<		R	13				
		O	14				
TWISTED PAIR 8<		R	15				
		G	16				
TWISTED PAIR 9<		R	17				
		BN	18				
TWISTED PAIR 10<		R	19				
		GY	20				
TWISTED PAIR 11<		BK	21				
		BE	22				
TWISTED PAIR 12<		BK	23				
		O	24				
TWISTED PAIR 13<		BK	25				
		G	26				
TWISTED PAIR 14<		BK	27				
		BN	28				
TWISTED PAIR 15<		BK	29				
		GY	30				
TWISTED PAIR 16<		Y	31				
		BE	32				
TWISTED PAIR 17<		Y	33				
		O	34				
TWISTED PAIR 18<		Y	35				
		G	36				
TWISTED PAIR 19<		Y	37				
		BN	38				
TWISTED PAIR 20<		Y	39				
		GY	40				
TWISTED PAIR 21<		P	41				
		BE	42				
TWISTED PAIR 22<		P	43				
		O	44				
TWISTED PAIR 23<		P	45				
		G	46				
TWISTED PAIR 24<		P	47				
		BN	48				
TWISTED PAIR 25<		P	49				
		GY	50				

CABLE IDENTIFICATION
* UPSTREAM CABLE FROM __________ AND __________ XX PR
** CONTROLLER CABLE PROVIDES THE CIRCUIT TO MODEM IN THE SIGNAL CABINET
*** DOWNSTREAM CABLE PROVIDES CIRCUITS TO CENTRAL AND AIRPORT XX PR
**** DOWNSTREAM CABLE PROVIDES CIRCUITS TO N/A AND N/A XX PR
***** N/A

NOTE: TERMINAL BLOCK (B) NOT USED OR SHOWN

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Mon, 13-OCT-2008 - 13:51PM, Plotted by: lahinde

BHI JOB NO. 090147

AS-BUILT INFORMATION
CONTRACTOR FRANKLIN'S EARTHMOVING DATE 09/09
WORK STAKED BY Cartesian Surveys Inc. DATE 1/09-9/09
INSPECTOR'S ACCEPTANCE BY COA DATE 09/09
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 8/09
DRAWINGS CORRECTED BY FRANKLIN'S CARTESIAN DATE 09/09

MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE)
N=1482352.731 E=1496702.894
GROUND TO GRID = 0.999682780
DELTA ALPHA = -00°16'33.63"
NAVD 1988 ELEVATION = 5118.017

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
KURT D. THORSON, NEW MEXICO, 13310, REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY
REVISIONS
DESIGN
DESIGNED BY LAH/KDT DATE 08/2008
DRAWN BY LAH DATE 08/2008
CHECKED BY KDT DATE 08/2008

(Base Bid)

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
SPLICE CABINET DETAILS

DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
LAST DESIGN UPDATE
MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 735684
ZONE MAP NO. K-9 K-10
SHEET 27 OF 29

LIGHTING NOTES

1. LOCATIONS OF CONDUITS, FOUNDATIONS, PULL BOXES, AND CONTROL 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 PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
2. ALL WIRE ON THIS PROJECT TO BE COPPER ONLY.
3. LIGHT STANDARDS SHALL HAVE BREAKAWAY COUPLINGS.
4. ALL ROADWAY LIGHTING CIRCUITS ON THIS PROJECT SHALL BE 240 VOLTS.
5. ALL PULL BOXES INSTALLED FOR ROADWAY LIGHTING SHALL BE STANDARD.
6. CONTRACTOR SHALL REMOVE EXISTING CONDUITS AND PULL BOXES THROUGHOUT THE PROJECT AS DIRECTED BY PROJECT MANAGER.
7. REWIRING OF EXISTING LUMINAIRES TO REMAIN, TO BE REMOVED AND RESET, AND CONNECTIONS TO NEW CIRCUITS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
8. EACH CIRCUIT FOR ROADWAY LIGHTING SHALL BE INSTALLED IN SEPARATE CONDUITS UNLESS APPROVED OTHERWISE.
9. ALL ROADWAY LUMINAIRES AND TYPE V STANDARDS WHICH ARE REMOVED SHALL BE SALVAGED AND DELIVERED TO THE CITY OF ALBUQUERQUE . PINO YARD BY THE CONTRACTOR.
10. EACH TIME A ROADWAY LUMINAIRE IS TURNED ON OR OFF THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING REPRESENTATIVES:

    PNM
    CITY OF ALBUQUERQUE TRAFFIC OPERATIONS

    POWER SHALL NEITHER BE TURNED ON OR OFF UNTIL RESPONSIBLE PARTIES FOR EACH LIGHTING SYSTEM HAVE BEEN NOTIFIED.
11. ALL SINGLE CONDUCTOR #10 COPPER WIRES CONNECTING THE MAIN CIRCUIT WIRING TO CORRESPONDING LUMINAIRES SHALL BE CONSIDERED INCIDENTAL TO COST OF POLES.
12. RESPONSIBILITY AND MAINTENANCE OF LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT SHALL BE AS FOLLOWS:

    A. ROADWAY LIGHTING SYSTEM SHALL BE ACCEPTED AND MAINTAINED BY CITY OF ALBUQUERQUE AND PNM, THE CONTRACTOR SHALL PROVIDE THE CITY OF ALBUQUERQUE AND PNM FIVE (5) WORKING DAYS NOTICE IN ADVANCE OF TURNING ON THE SYSTEM SO AS TO ALLOW THE CITY OF ALBUQUERQUE AND PNM TO INSPECT AND APPROVE THE SYSTEM BEFORE IT IS TURNED ON.

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND COST OF ENERGIZING ALL LIGHTING SYSTEM UNTIL SUCH TIME THAT THE APPROPRIATE OWNER AND MAINTAINING AGENCY ACCEPT THE RESPONSIBILITY FOR THEIR RESPECTIVE SYSTEMS.
13. THE CONTRACTOR SHALL PAY FOR COSTS FOR PNM TO PROVIDE POWER SERVICE. THESE COSTS WILL BE MEASURED AND PAID UNDER CONTRACT ITEM 0421.018 – SERVICE CONNECTION.
14. ALL LIGHTING CONTROL CABINETS SHALL INCLUDE PHOTO ELECTRIC CELLS.
15. THE DESIGN IS BASED UPON TYPE III, 400 WATT, HIGH PRESSURE SODIUM, CUT-OFF, FLAT GLASS WITHOUT INDIVIDUAL PHOTO CELLS. THE CONTRACTOR SHALL FURNISH AND INSTALL THIS TYPE OF FIXTURE.
16. LIGHTING CONTROL CABINET SHALL BE OF THE FOLLOWING TYPE(S):

    6 CIRCUIT, UNMETERED – (LOCATED AT THE SW CORNER OF CENTRAL & DRIVEWAY "B"))
17. THE INTERSECTION LIGHTING IS TO BE SERVED BY METER PEDESTAL IN COMBINATION WITH TRAFFIC SIGNALS (SEE SIGNAL PLANS).
18. THE CONTRACTOR SHALL REMOVE EXISTING SERVICE RISERS, SERVICE POLES, CONTROL CABINETS, AND EXISTING WIRING AS REQUIRED BY PNM AND AS DIRECTED BY THE PROJECT MANAGER.
19. ANY LUMINAIRES DAMAGED DURING THE INSTALLATION OF LIGHTING STANDARDS SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
20. ALL LIGHTING CONTROL CABINETS SHALL BE TESCO (OR APPROVED EQUAL). THE CONTRACTOR SHALL SUBMIT A COPY OF THE LIGHTING PLANS TO THE MANUFACTURER. THE MANUFACTURER SHALL REVIEW PLANS AND MODIFY THE EQUIPMENT IN EACH CABINET AS NECESSARY TO ACCOMMODATE LIGHTING REQUIREMENTS AS SHOWN ON PLANS. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS OF EACH CABINET TO THE PROJECT MANAGER AND PNM FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURING OF CABINETS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CABINET AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
21. LIGHTS NEAR EXISTING OVERHEAD TRANSMISSION LINES MUST BE MAINTAIN A REQUIRED VERTICAL AND HORIZONTAL CLEARANCE FROM THE PHASE CONDUCTOR. PNM WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
22. THE FOLLOWING CITY OF ALBUQUERQUE STANDARD DRAWINGS SHALL BE USED FOR THE LIGHTING INSTALLATION:

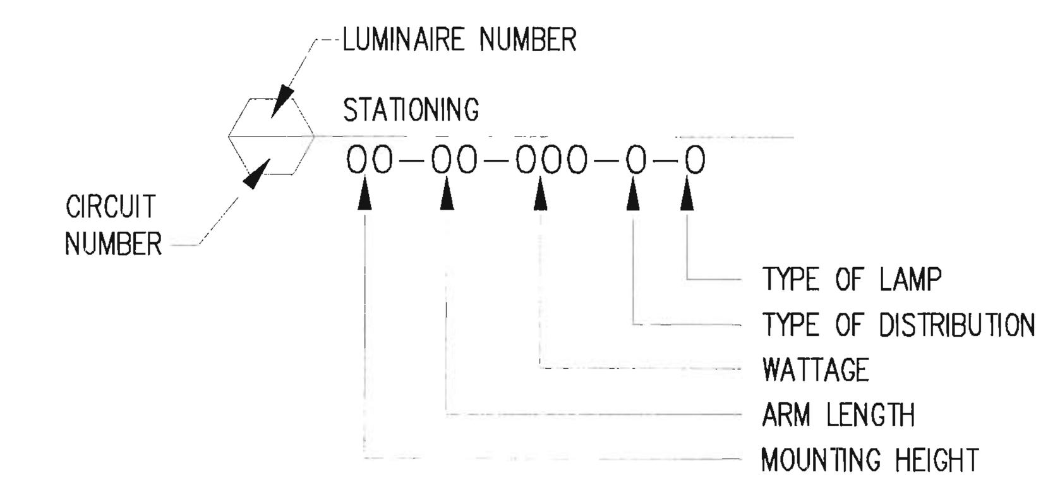
    2550 TRAFFIC SIGNAL PULL BOX DETAILS
    2574 STREET LIGHTING CONTROL CABINET, SIX CIRCUIT UNMETERED
    2580 STREET LIGHTING FOUNDATION & MISCELLANEOUS DETAILS
    2581 STREET LIGHTING INSTALLATION & POLE DETAILS

LIGHTING INCIDENTAL ITEMS

1. ANCHOR BOLTS FOR FOUNDATIONS.
2. GROUND RODS FOR FOUNDATIONS.
3. UNIVERSAL SUPPORT BRACKETS FOR SERVICE RISERS.
4. CONCRETE FOUNDATION FOR LIGHTING CONTROL CABINETS INCLUDING EXCAVATION, BACKFILL, CONCRETE, GROUND RODS, AND ANCHOR BOLTS.
5. REWIRING OF ANY EXISTING LUMINAIRES TO REMAIN OR BE RESET.
6. SINGLE CONDUCTOR #10 AWG COPPER WIRE CONNECTIONS FROM MAIN CIRCUIT TO LUMINAIRES.
7. REMOVAL OF EXISTING STANDARDS AND LUMINAIRES AND DELIVERY TO THE CITY OF ALBUQUERQUE.
8. SHOP DRAWING PREPARATION AND COORDINATION FOR LIGHTING CONTROL CABINETS.
9. ENERGY COST OF THE LIGHTING SYSTEM UNTIL ACCEPTANCE BY THE MAINTAINING AGENCY.

LIGHTING LEGEND

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		CONDUIT RUN
		PULL BOX
J		JUNCTION BOX
		SERVICE POLE WITH SERVICE RISER
LC		LIGHTING CONTROL CABINET
		TRAFFIC MANHOLE



LIGHTING QUANTITIES (Estimated)

ITEM NO.	DESCRIPTION	UNIT	ROADWAY LIGHTING	TOTAL (USE)
0421.006	SERVICE RISER (LIGHTING), CIP	EA	1	1
0421.018	SERVICE CONNECTION (LIGHTING), CIP	EA	1	1
0421.024	LIGHTING CONTROL CABINET, SIX CIRCUIT, UNMETERED, CIP	EA	1	1
0422.032	STREET LIGHT STANDARD, SINGLE ARM, 40' (TYPE V DAVIT), CIP	EA	8	8
0423.020	LUMINAIRE FOUNDATION FOR LUMINARIE HEIGHT OF 40' OR LESS, CIP.	EA	8	8
0424.006	ELECTRICAL CONDUIT, 2", INCLUDING TRENCHING, BACKFILL, PATCHING, PUSHING, BORING, JACKING, CIP.	EA	1770	1770
0425.002	PULL BOX, (STANDARD), CIP	EA	3	3
0426.001	SINGLE CONDUCTOR, #2, CIP	LIN FT	3600	3600
0432.002	ROADWAY LUMINAIRE, TYPE 400S, CIP	EA	8	8

(Base Bid)

AS-BUILT INFORMATION
CONTRACTOR FRANKLINS EARTHMOVING DATE 09/09
WORK STAKED BY Cartesian Surveys Inc. DATE 1/09-9/09
INSPECTOR'S ACCEPTANCE BY CDA DATE 09/09
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE 8/09
DRAWINGS CORRECTED BY FRANKLIN'S CARTESIAN DATE 09/09

MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
ACS ALUMINUM DISC STAMPED "14-K9 2002"
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SURVEY INFORMATION
FIELD NOTES
NO.	BY	DATE

ENGINEER'S SEAL
KURT D. THORSON
NEW MEXICO
13310
REGISTERED PROFESSIONAL ENGINEER
10/16/08

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY LAH / KDT DATE 08/2008
DRAWN BY LAH DATE 08/2008
CHECKED BY KDT DATE 08/2008

Bohannan ▲ Huston inc.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
LIGHTING NOTES, QUANTITIES AND LEGEND

DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
MO./DAY/YR. MO./DAY/YR.
LAST DESIGN UPDATE

CITY PROJECT NO. 735684
ZONE MAP NO. K-9 K-10
SHEET 28 OF 29

BHI JOB NO. 090147

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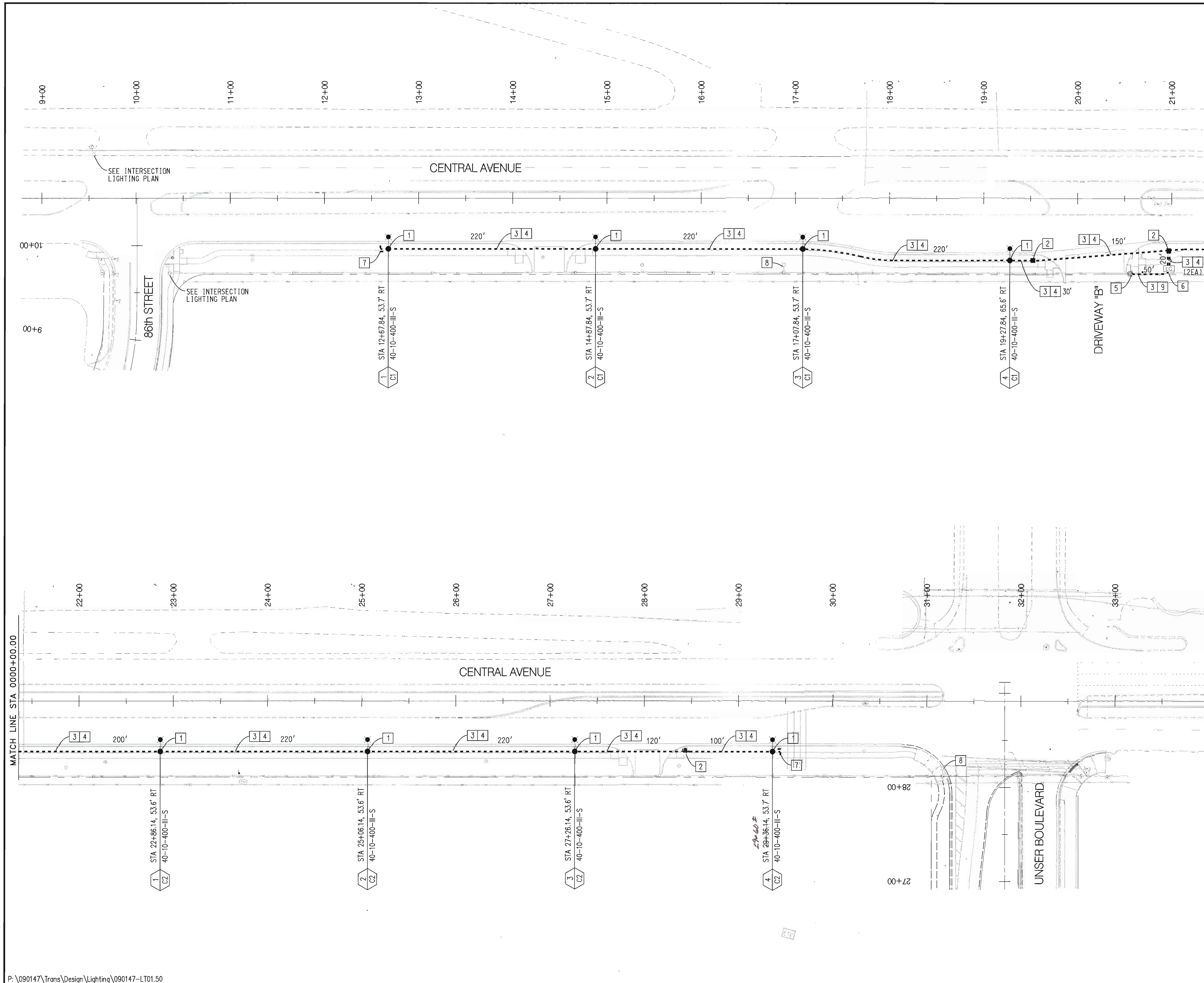
RECORD DRAWINGS



KEYED NOTES

1. INSTALL NEW ROADWAY LIGHTING FOUNDATION, 40' LIGHTING TYPE V STANDARD AND TYPE III DISTRIBUTION 400 WATT HPS WITH CUTOFF FIXTURE AND FLAT GLASS PER COA STD DWGS 2580 & 2581
2. INSTALL NEW ELECTRICAL PULL BOX (STANDARD)
3. INSTALL NEW RIGID ELECTRICAL CONDUIT, 2"
4. INSTALL NEW SINGLE CONDUCTOR #2 AWG (2 EACH) AND #6 GROUND
5. INSTALL LIGHTING SERVICE RISER ON EXISTING POLE
6. INSTALL NEW LIGHTING CONTROL CABINET, SIX CIRCUIT (UNMETERED)
7. INSTALL 2" STUBOUT WITH CAP (5')
8. REMOVE AND SALVAGE EXISTING LUMINAIRE ON EXISTING POWER POLE. COORDINATE THIS WORK WITH PNM
9. INSTALL NEW SINGLE CONDUCTOR 2/0 (3 EACH, INCIDENTAL TO SERVICE CONNECTION)

NOTES

1. ALL NEW EQUIPMENT INCLUDING PULL BOXES, CONDUIT, SPLICE CABINETS AND MANHOLES SHALL BE LOCATED WITHIN THE RIGHT-OF-WAY, BETWEEN THE SIDEWALK AND CURB WHEREVER POSSIBLE.

N

0 25 50 100

SCALE: 1"=50'

(Base Bid)

AS-BUILT INFORMATION
CONTRACTOR DATE
WORK STAKED BY Cartesian Surveys Inc. DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY Cartesian Surveys Inc. DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
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FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
KURT D. THORSON
NEW MEXICO
13919
REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. DATE REMARKS BY

DESIGN
DESIGNED BY LAH / KDT DATE 08/2008
DRAWN BY LAH DATE 08/2008
CHECKED BY KDT DATE 08/2008

Bohannan Huston INC.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING · SPATIAL DATA · ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

OFFSITE PUBLIC INFRASTRUCTURE - UNSER CROSSING
ROADWAY LIGHTING PLAN - CENTRAL AVE

DESIGN REVIEW COMMITTEE: APPROVED OCT 30 2008
CITY ENGINEER APPROVAL: APPROVED OCT 31 2008 CITY ENGINEER
LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
735684	K-9 K-10	29	29

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BHI JOB NO. 090147

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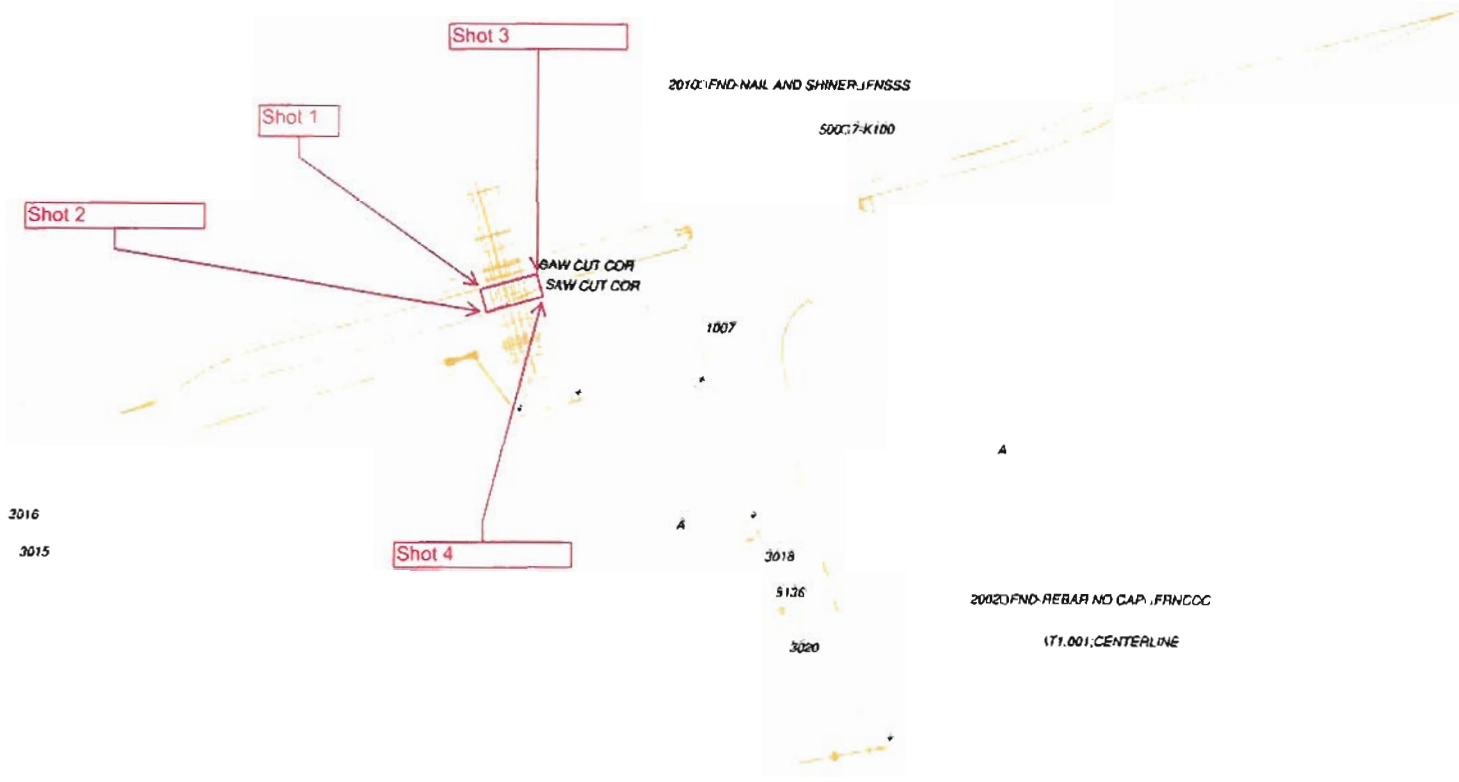

Unser Crossing Spot Shots 11/17/09