

CONSTRUCTION PLANS FOR
HERITAGE MARKET PLACE
LADERA DRIVE AND MARKET STREET
PAVING IMPROVEMENTS

CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
MARCH, 2015

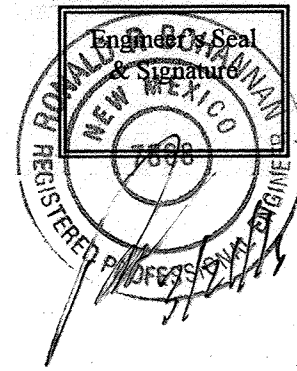
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CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPIS number 15702



RECORD
DRAWING

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrowestllc.com

UTILITY CONTACT INFORMATION

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ROBERT_MARTINEZ@CABLE.COMCAST.COM

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241-3404
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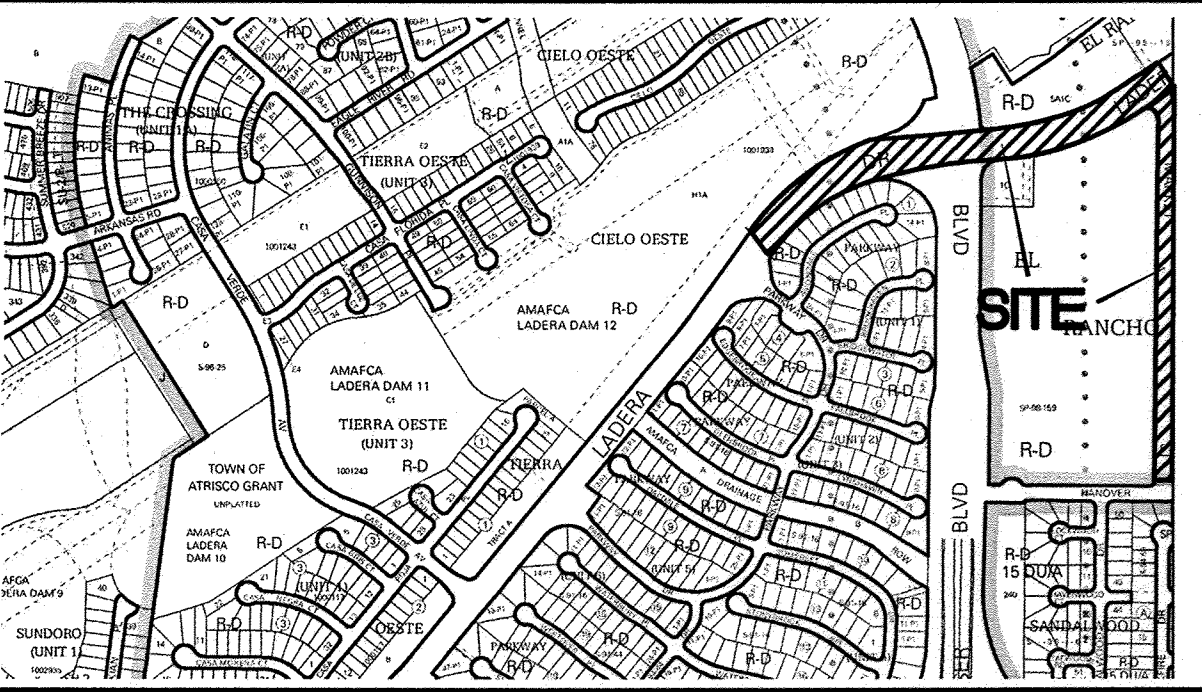
JOE HERRERA-NEW MEXICO GAS COMPANY
891-6995
JOE.HERRERA@NMGC.COM

ROSA KNIFFIN-QWEST
245-6374
ROSARITO.KNIFFIN@QWEST.COM

KRISTOPHER CADENA-ALBUQUERQUE BERNALILLO COUNTY
WATER UTILITY AUTHORITY
289-3301
KCADENA@ABCWUA.ORG

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: _____

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 4/20/2015

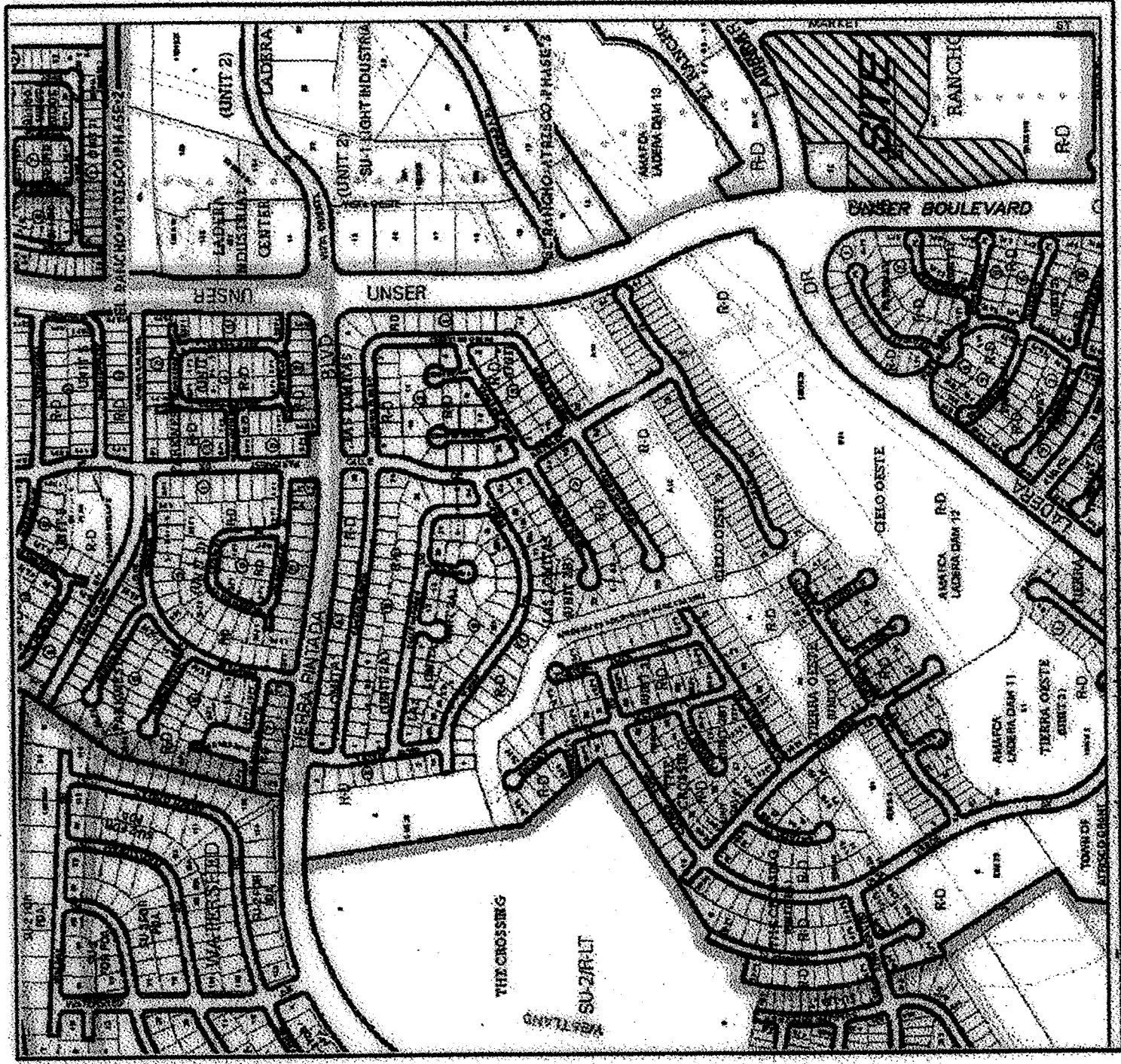


VICINITY MAP H-9Z
NTS

NOTICE TO CONTRACTORS

1. 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 (UPDATE #8), INCLUDING AMENDMENT #1.
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. ANY WORK AFFECTING RIO BRAVO BLVD SHALL TAKE PLACE BETWEEN 9 PM AND 4:30 AM ONLY.
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 OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CC&D CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO(2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH 90 MIL THERMOPLASTIC ONLY REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER 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. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE CONTRACTORS EXPENSE.
8. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
9. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
10. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUT-OFF OF WELLS, COLLECTORS, TRANSMISSION LINES OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://WWW.ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCESURES.ASPX](http://www.abcwua.org/water_shut_off_and_turn_on_procedures.aspx).
11. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P AND COA STD DWG 2465.
12. ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #8, AMENDMENT #1.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE APPROPRIATE JURISDICTION.
THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
14. PEDESTRIAN PATHWAYS NEED TO BE MAINTAINED DURING CONSTRUCTION INCLUDING ACCESSIBLE ROUTES OR PROVIDE ALTERNATE ACCESSIBLE PATHWAY.

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRC Chairman	<i>Woodell</i>	4-27-15			
		Transportation	<i>James Miller</i>	4-16-15			
		ABCWUA	<i>Chris Medina</i>	4-8-15			
		Hydrology	<i>John Gappa</i>	4-8-15			
		AMAFCA					
		Constr. Mngmt.			City Engineer		
		Constr. Coord.			Date		
		CITY PROJECT NO.		SHEET			
		RONALD R. BOHANNAN P.E. #7868		529882		1 of 22	



VICINITY MAP
Not to Scale

GENERAL NOTES

1. Bearings are grid based on the New Mexico State Plane Coordinate System, Central Zone (NAD 83).
2. Distances are ground.
3. Distances shown along curved lines are arc lengths.
4. Record Plat or Deed bearings and distances, where they differ from those established by this field survey, are in parentheses ().
5. All corners that were set are either a 5/8" rebar with cap stamped "HUG L.S. 9750" or a concrete nail with brass disk stamped "HUG L.S. 9750" unless otherwise indicated herein.
6. All corners found in place and held were tagged with a brass disk stamped "HUG L.S. 9750" unless otherwise indicated herein.
7. City of Albuquerque Zone Atlas Page: H-9-Z

SUBDIVISION DATA

Total number of existing Tracts: 2
Total number of new Tracts created: 6
Gross Subdivision acreage: 10.9281 acres

DOCH 2015029498
PLAT 1 OF 3
FOR REFERENCE ONLY
SHEET 1 OF 3

PURPOSE OF PLAT:

- The Purpose of this Plat is to:
- a. Divide 2 existing Tracts into 6 new Tracts as shown herein.
 - b. Grant the Private and Public easements as shown herein.

DISCLAIMER

In approving this plat, Public Service Company of New Mexico (PSCN) and New Mexico Gas Company (NMGC) did not conduct a title search of the properties shown herein. Consequently, the rights which may have been granted by prior plat, replat or other document and which are not shown on this plat.

PUBLIC UTILITY EASEMENTS

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

A. Public Service Company of New Mexico ("PSCN"), a New Mexico corporation, (PSCN Electric) for installation, maintenance, and service of overhead and underground electrical transmission and distribution lines, poles, towers, and related facilities reasonably necessary to provide electrical services.

B. New Mexico Gas Company for installation, maintenance, and service of such facilities reasonably necessary to provide natural gas services.

C. Over for the installation, maintenance, and service of such facilities reasonably necessary to provide communication services.

D. Cable TV for the installation, maintenance, and service of such facilities reasonably necessary to provide cable services.

Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, replace, modify, renew, operate and maintain facilities for purposes of the easements, with the right and privilege of going upon, over and across adjoining lands of Grantor for the purposes set forth herein and with the right to utilize the easement for the purposes of the easements. The easement shall include sufficient working area space for electric transformers, with busbars, switches, and other electrical equipment, and the right and privilege to trim and remove trees, shrubs or bushes which interfere with the easement or its use. No concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or constructed on said easements. The Grantor shall be responsible for correcting any violations of National Electrical Safety Code by construction of poles, decking, or any structures adjacent to or near easements shown on this plat.

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

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that this plat was prepared by me or under my direct supervision; that it meets the Standards for Land Surveys in the State of New Mexico as adopted by the New Mexico State Board of Survey; that it meets the minimum requirements for surveys and monuments of the Albuquerque Subdivision Ordinance; that it shows all easements of record; and that it is true and correct to the best of my knowledge and belief.

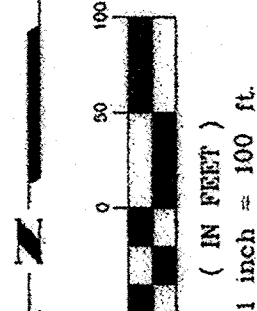
Russ P. Hugg
New Mexico Professional Surveyor
February 17, 2015

FOR REFERENCE ONLY
SHEET 1 OF 3

DOCH 2015029498
PLAT 1 OF 3
FOR REFERENCE ONLY
SHEET 1 OF 3

130412_PLAT2.DWG

TRACT 1-B-1
EL RANCHO ATRISCO
PHASE III
Filed 08/11/98 in Volume 95C, Page 238

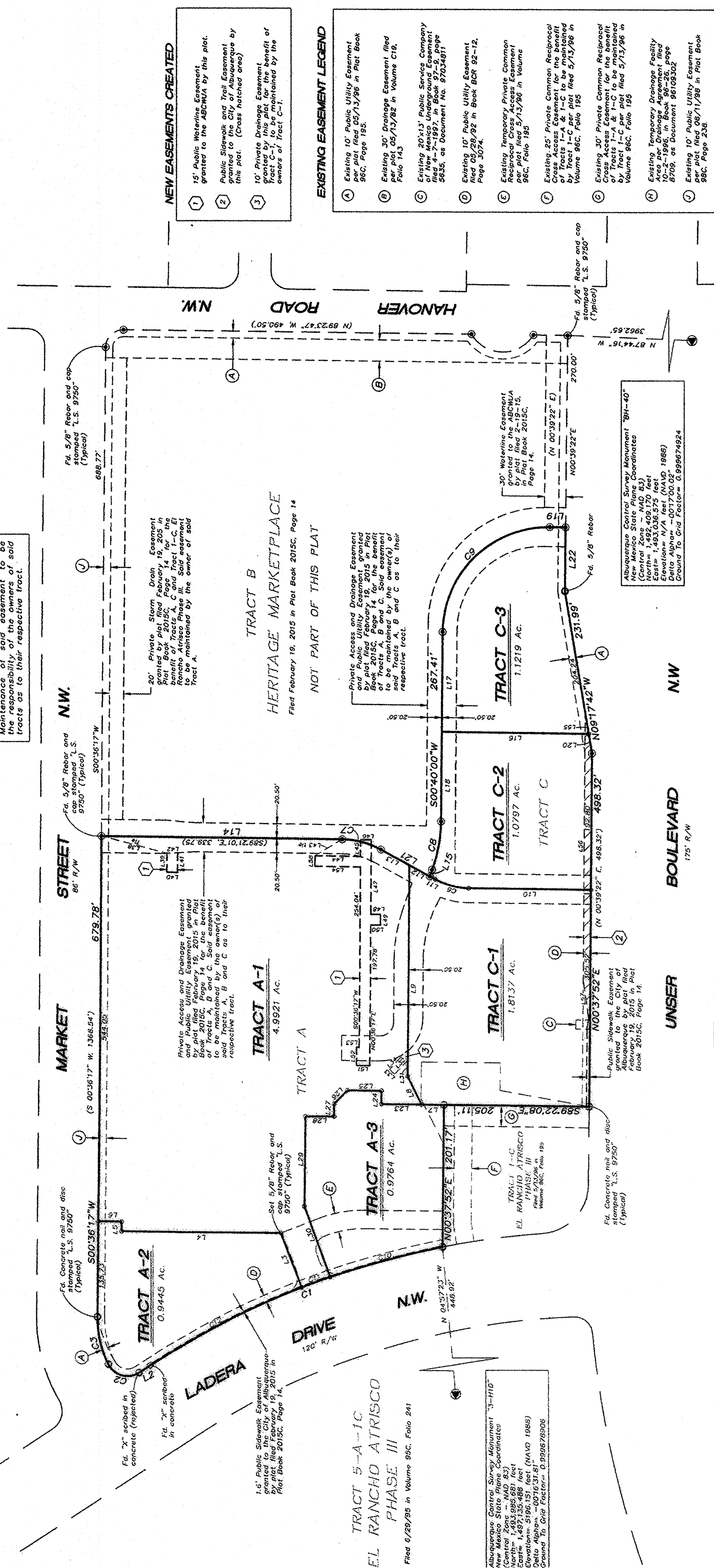


TRACTS A-1 THRU A-3 AND C-1 THRU C-3
HERITAGE MARKETPLACE
(BEING A REPLAT OF TRACTS A AND C, HERITAGE MARKETPLACE)
WITHIN
THE TOWN OF ATRISCO GRANT
PROJECTED SECTIONS 9, 10, 15 AND 16, TOWNSHIP 10 NORTH, RANGE 2 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
FEBRUARY, 2015

DRAINAGE NOTE

There is an existing Private Blanket Drainage Easement over Tracts A and C, Heritage Marketplace, as shown on the Plat Book 2015C, Page 14, for the benefit of Tracts A, B and C. Said easement is to be the responsibility of the owners of said respective tract.

A Private Blanket Drainage Easement over Tracts A-1, A-2 and A-3, granted by this plat for the benefit of Tracts A-1, A-2 and A-3, shall be the responsibility of the owners of said respective tract.



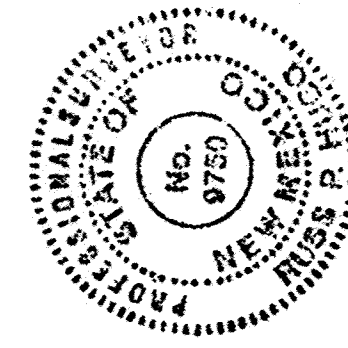
TRACT 1-A-1
CIELO OESTE
UNIT 3
Filed 12/10/2002 in Plat Book 2002C, Page 303

PARKWAY UNIT 1
Filed 08/11/92 in Volume 95C, Page 171

PARKWAY UNIT 2
Filed 12/10/92 in Volume 95C, Page 266

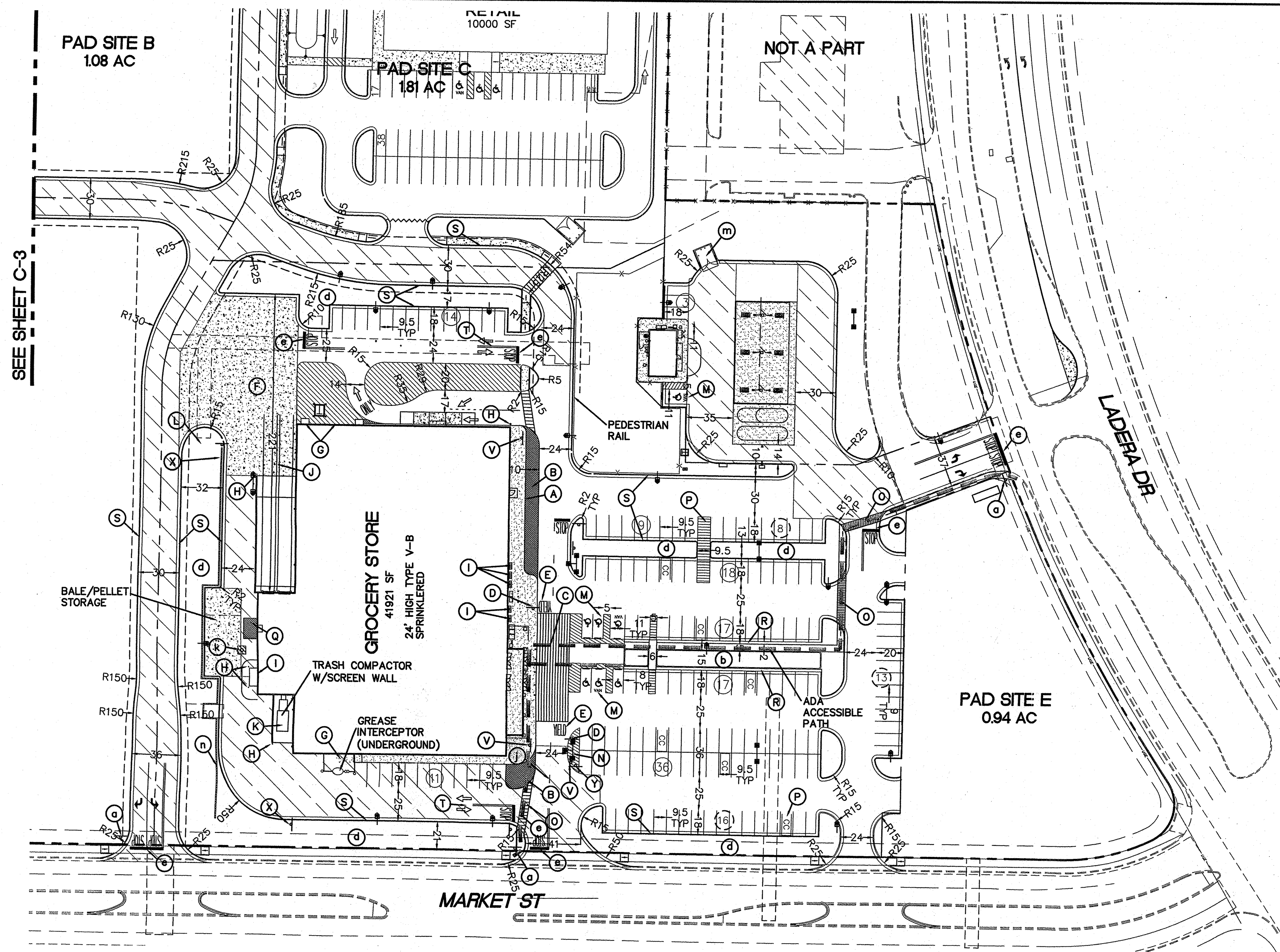
PARKWAY UNIT 3
Filed 08-15/93 in Volume 95C, Page 105

DOCH 2015029498
PLAT 2 OF 3
FOR REFERENCE ONLY
SHEET 2 OF 3



FOR REFERENCE ONLY
SHEET 3 OF 3

DOCH 2015029498
PLAT 3 OF 3
FOR REFERENCE ONLY
SHEET 3 OF 3



SEE SHEET SP-2 FOR KEYED NOTES

- SITE NOTES**
1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
 2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
 3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
 4. ALL CURBED RADII ARE TO BE 10' UNLESS OTHERWISE NOTED. STRIPED RADII ARE TO BE 5'.
 5. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 6. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
 8. SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY A LAND SURVEYOR.
 9. TOTAL LAND AREA IS XX.XX± ACRES.
 10. NO WETLANDS WERE PRESENT ON THIS SITE AS INDICATED BY THE LETTER FROM THE U.S. ARMY CORP OF ENGINEERS LETTER DATE XX-XX-XX. (REFERENCE)
 11. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED "THE SITE SPECIFIC SPECIFICATIONS".
 12. PYLON SIGNS SHALL BE CONSTRUCTED BY OTHERS.
 13. REFER TO ARCH. PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
 14. ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

PROJECT NUMBER: 1003275
APPLICATION NUMBER: 14EPC-40079, 15DRB-70051

This plan is consistent with the specific Site Development Plan approved by the Environmental Planning Commission (EPC), dated _____, and the Findings and Conditions in the Official Notification of Decision are satisfied.

Is an Infrastructure List required? () Yes () No If Yes, then a set of approved DRB plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements.

DRB SITE DEVELOPMENT PLAN SIGNOFF APPROVAL:

<i>[Signature]</i> Traffic Engineer, Transportation Division	02-25-15 Date
<i>[Signature]</i> Water Utility Development	02/25/15 Date
<i>[Signature]</i> Parks & Recreation Department	02-25-15 Date
City Engineer	Date
* Environmental Health Department (conditional)	Date
Solid Waste Management	Date
DRB Chairperson, Planning Department	Date

* Environmental Health, if necessary

SITE DATA

LEGAL DESCRIPTION: PORTION OF TRACT 1-A-1, PLAT OF TRACTS 1-A-1, & 1-B-1 EL RANCHO ATRISCO PHASE 3

ZONING:

PAD SITES A, B, C, E
 SU-1/SU-2 PLANNED OFFICE PARK & COMMERCIAL DEVELOPMENT WITH SALES FOR FULL SERVICE ALCOHOL SALES FOR SIT DOWN RESTAURANT.

PAD SITE D
 SU1-SU2 FOR PLANNED OFFICE PARK AND COMMERCIAL DEVELOPMENT TO INCLUDE SALES OF PACKAGE LIQUOR IN ASSOCIATION WITH A GROCERY STORE. PERMITTEE SHALL NOT SELL DISTILLED SPIRITS IN ANY PACKAGE THAT CONTAINS LESS THAN 750 MILLILITERS (MINIBOTTLES) AND BEER IN ANY SINGLE CONTAINER CONTAINING 16 OR FEWER OUNCES (SINGLES)

SITE AREA: PAD D (GROCERY STORE): 4.99 ACRES
 PAD F (GAS PAD): 0.9751 ACRES

SITE DATA (CONTINUED)

INTERNAL CIRCULATION REQUIREMENTS:
 INTERNAL ROADWAY AND SIDEWALK NETWORK TO INTERCONNECT USES WITHIN CENTER WITH PUBLIC RIGHT OF WAY.

MAXIMUM BUILDING HEIGHT ALLOWED (ALL LOTS):
 MAXIMUM BUILDING HEIGHTS FOR ALL BUILDING SHALL BE PER THE SU-1 ZONE.

MINIMUM BUILDING SETBACK:
 N/A

MAXIMUM TOTAL DWELLING UNITS (ALL LOTS):
 NO RESIDENTIAL PROPOSED

NON RESIDENTIAL USES' MAXIMUM FLOOR AREA RATIO (ALL LOTS):
 MAXIMUM F.A.R IS 0.30

PHASING:
 ACCESS ON PUBLIC RIGHT OF WAY AND INTERNAL ROADWAY NETWORK WITH PUBLIC UTILITIES TO BE CONSTRUCTED WITH FIRST DEVELOPMENT.

PARKING DATA (GROCERY STORE AND GAS LOT)

PARKING REQUIRED	210 SPACES (1 SPACE PER 200 SF) GROCERY
PARKING REQUIRED	4 SPACES (1 SPACE PER 200 SF) GAS LOT
TOTAL PARKING REQUIRED	214 SPACES
PARKING PROVIDED	160 SPACES (GROCERY) + 4 (GAS LOT)
HC PARKING REQUIRED	8 SPACES
HC PARKING PROVIDED	8 SPACES (GROCERY) + 1 (GAS LOT)
TOTAL PARKING PROVIDED	164 SPACES
MC PARKING REQUIRED	5 SPACES
MC PARKING PROVIDED	5 SPACES
BICYCLE PARKING PROVIDED	25 SPACES (5 RACKS)

**SEE SHEET SP-2 FOR PAD C PARKING DATA

PROPOSED USE:
 GROCERY STORE (41,921 SF) WITH A PHARMACY DRIVE-UP SERVICE WINDOW, RETAIL SALES OF GASOLINE WITH 6-TWO SIDED FUELING DISPENSER UNITS, AND CONVENIENCE STORE (740 SF); RETAIL BUILDING (10,000 SF) WITH DRIVE-UP WINDOW.

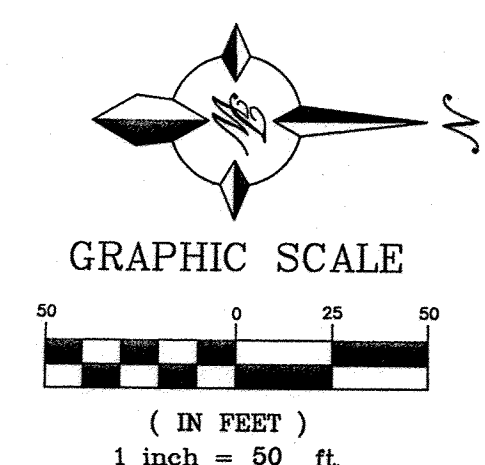
PEDESTRIAN AND VEHICULAR INGRESS AND EGRESS:
 VEHICULAR ACCESS AND CIRCULATION- THE PROPOSED DEVELOPMENT HAS ACCESS TO ADJACENT STREETS ON ALL FOUR SIDES OF THE PROPERTY. LIMITED ACCESS TO UNSER BOULEVARD (A LIMITED ACCESS PRINCIPAL ARTERIAL) HAS BEEN APPROVED BY THE TRANSPORTATION COORDINATING COMMITTEE OF THE METROPOLITAN TRANSPORTATION BOARD OF THE MID-REGION COUNCIL OF GOVERNMENTS (R-14-01 TCC). ACCESS INCLUDES A RIGHT-IN, RIGHT OUT, AND LEFT-IN ACCESS (APPROXIMATELY 1,040 FEET SOUTH OF LADERA) AND AN ADDITIONAL RIGHT-IN ACCESS (APPROXIMATELY 529 FEET SOUTH OF LADERA) TO SERVE THE PROPOSED DEVELOPMENT. THERE ARE EXISTING ACCESS POINTS ON THE NORTH SIDE OF THE PROPERTY TO LADERA DRIVE THAT REMAIN. ADDITIONAL ACCESS IS SHOWN ON LADERA DRIVE, MARKET STREET, AND HANOVER ROAD.

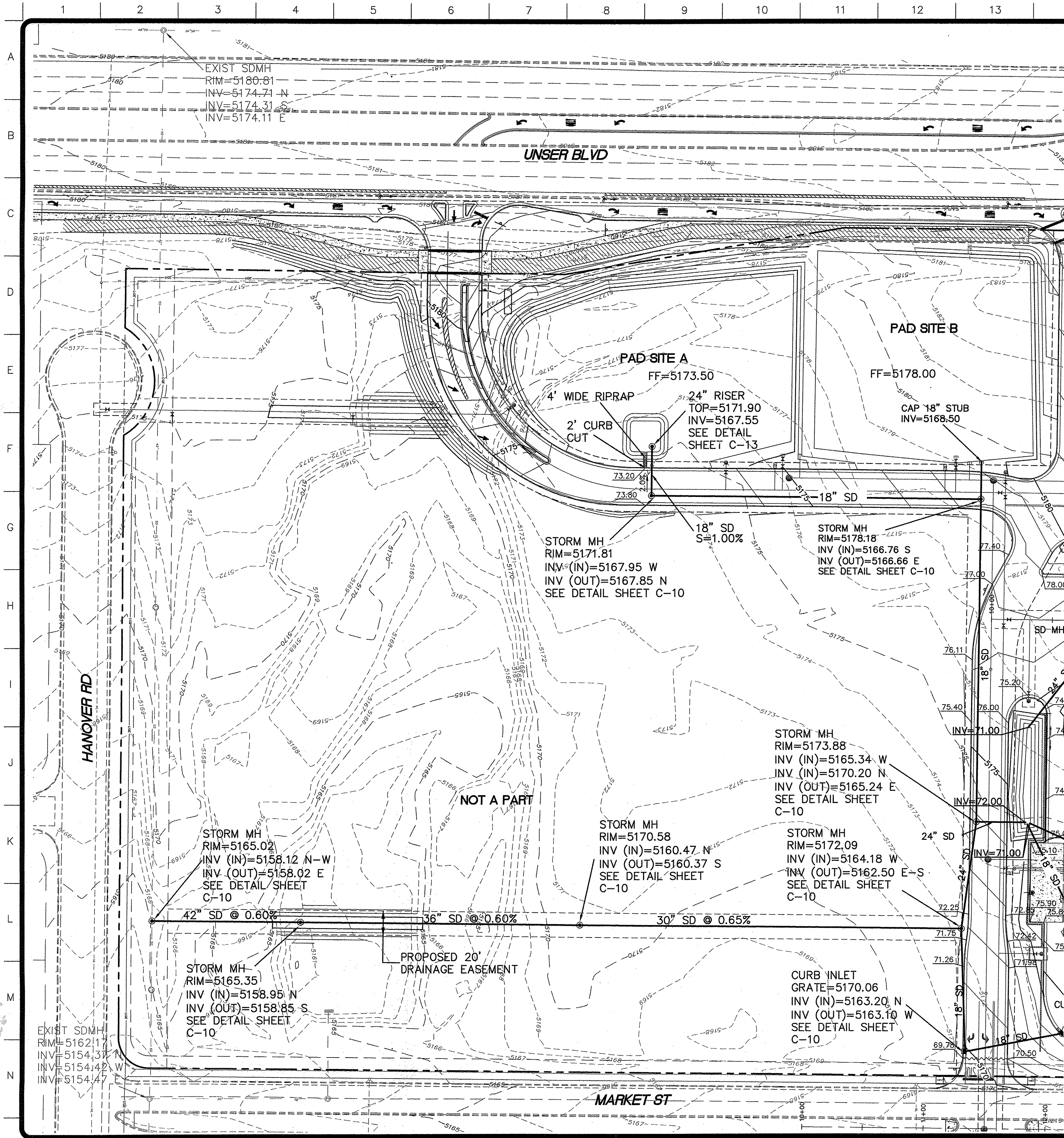
NOTE:
 SITE LIGHTING SHALL COMPLY WITH THE LIGHTING REGULATIONS OF THE ZONING CODE, 14-16-3-9, AREA LIGHTING REGULATIONS. LIGHT FIXTURES WITHIN 100 FEET OF A RESIDENTIAL AREA SHALL NOT EXCEED 16 FEET. THE MAXIMUM HEIGHT FOR PARKING LOT LIGHTS SHALL BE A MAXIMUM OF 28 FEET.

- INDEX TO DRAWINGS**
- SP-1 SITE PLAN FOR BUILDING PERMIT
 - SP-2 SITE PLAN FOR BUILDING PERMIT
 - R-1 OVERALL SITE PLAN (FOR REFERENCE)
 - L-1 LANDSCAPING PLAN
 - GR-1 GRADING PLAN
 - GR-2 GRADING PLAN
 - GR-3 GRADING PLAN-FUEL AREA
 - MU-1 MASTER UTILITY PLAN
 - MU-2 MASTER UTILITY PLAN
 - A2 ARCHITECTURAL ELEVATIONS
 - DET 1-2 DETAILS

FOR REFERENCE ONLY

ENGINEER'S SEAL RONALD R. BOHANNAN P.E. #7868	HERITAGE MARKET PLACE ALBUQUERQUE, NM	DRAWN BY pm
	PAD D SITE PLAN FOR BUILDING PERMIT	DATE 2-17-15
	 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com	DRAWING 2014038-SPC
		SHEET NO SP-1
		JOB # 2014038



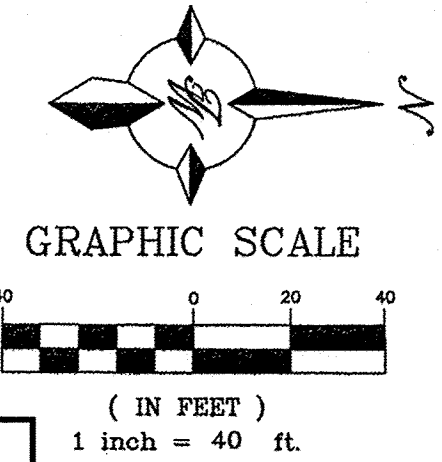


LEGEND	
	CURB & GUTTER
	BOUNDARY LINE
	EASEMENT
	SIDEWALK
	EXISTING CURB & GUTTER
	SINGLE CLEAN OUT
	DOUBLE CLEAN OUT
	EXISTING SD MANHOLE
	EXISTING SAS MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING POWER POLE
	EXISTING GAS VALVE
	EXISTING OVERHEAD UTILITIES
	EXISTING GAS
	EXISTING SANITARY SEWER LINE
	EXISTING WATER LINE
	EXISTING STORM SEWER LINE
	EXISTING INDEX CONTOUR
	EXISTING CONTOUR
	WATER BLOCK

- EROSION CONTROL NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
 - REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

- NOTICE TO CONTRACTORS**
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
 - MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

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



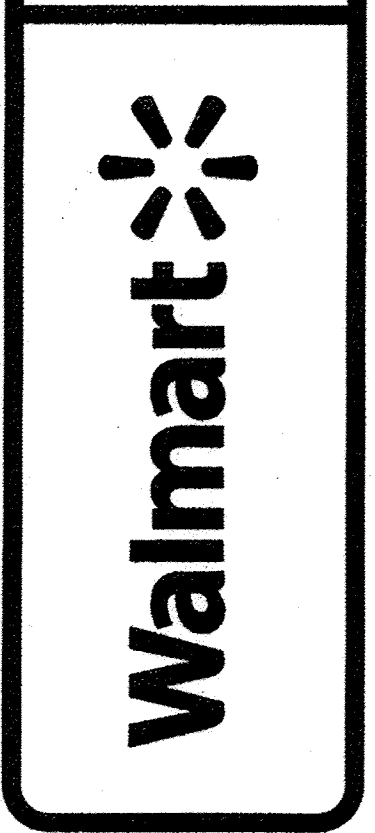
GRADING AND DRAINAGE PLAN

REVISIONS	BY

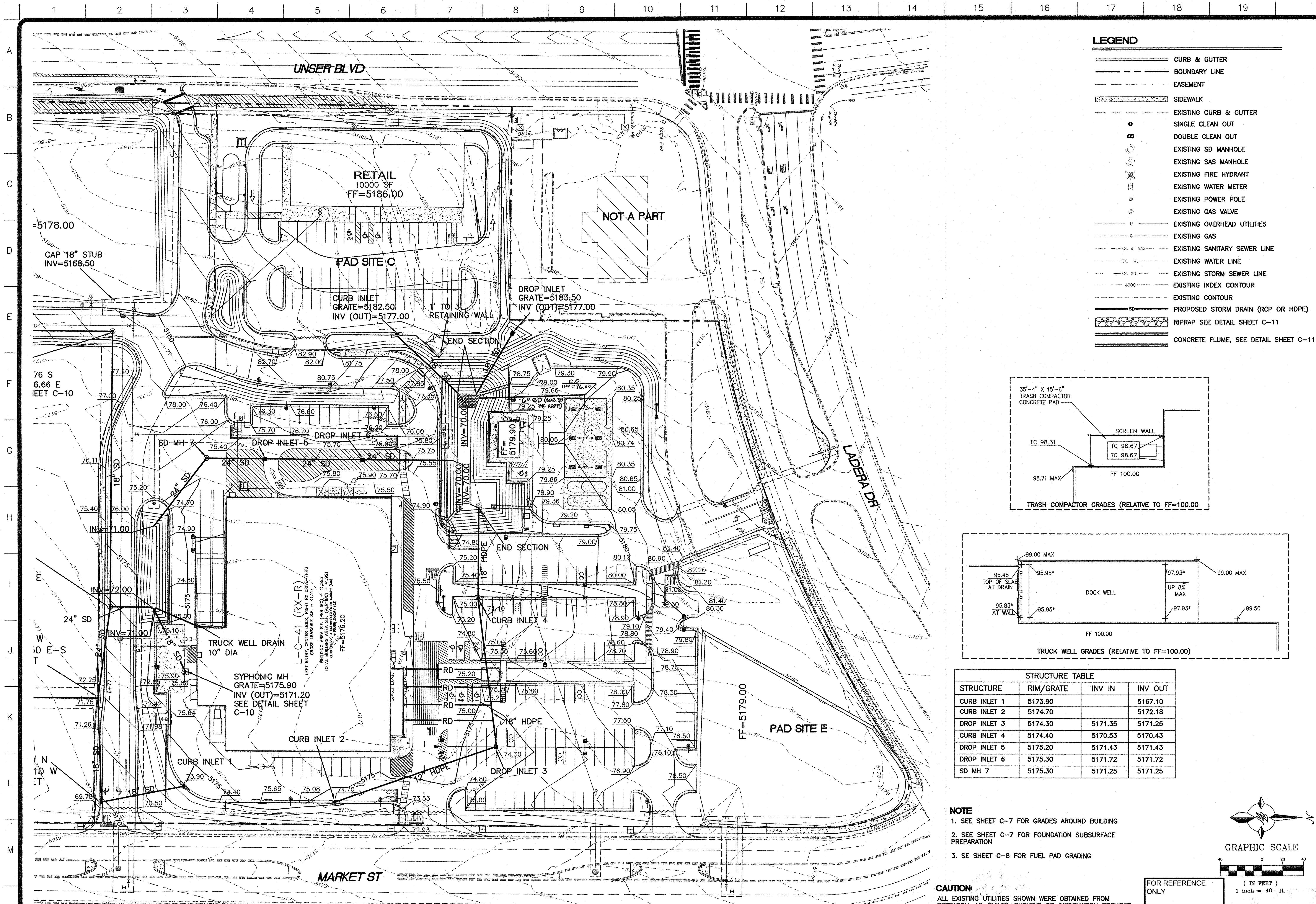
TERRA WEST, LLC
5571 MIDWAY PARK PL. NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.terrawestllc.com

ROMAN K. BOHANNAN
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
No. 17889

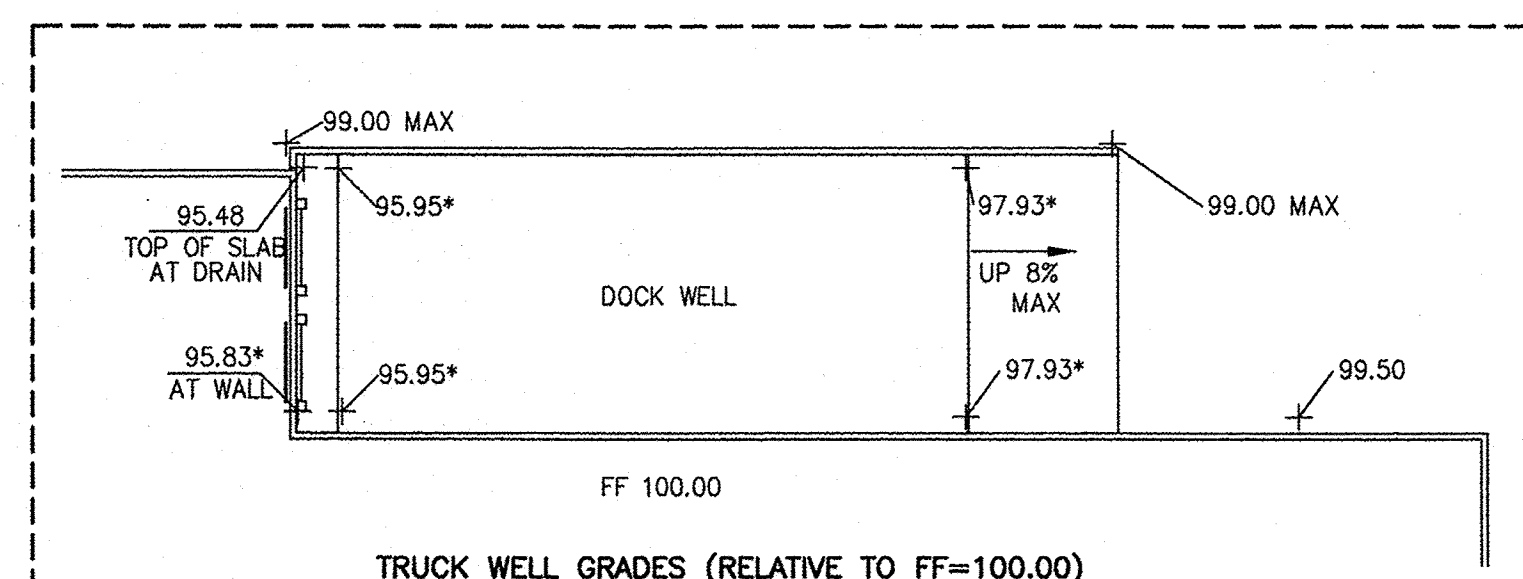
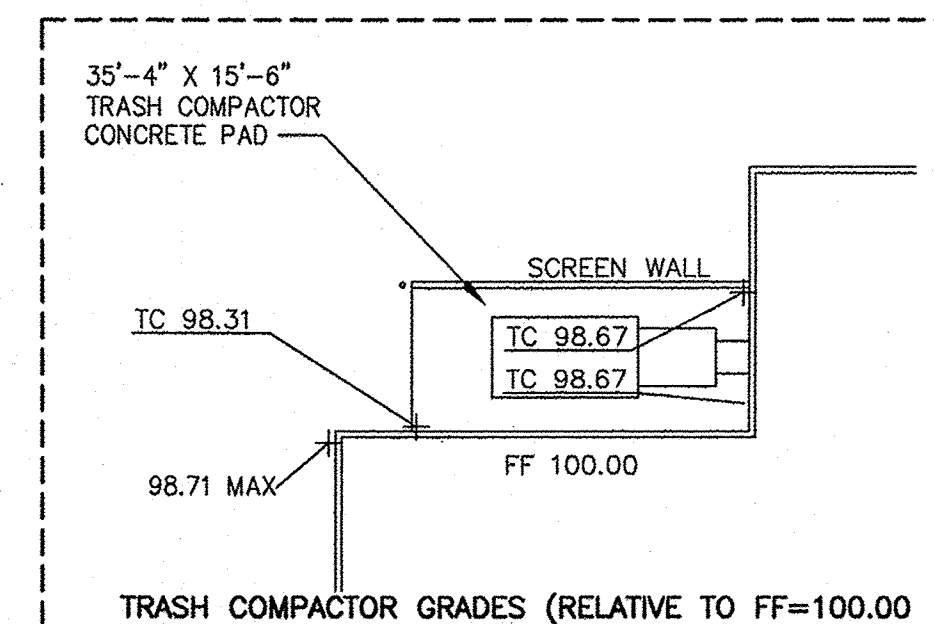
NEIGHBORHOOD MARKET #4676
ALBUQUERQUE (LADERA), BERNCO, NM
WAL-MART STORES, INC.
2001 SE 10TH STREET
BENTONVILLE, AR 72716



DRAWN	RM
CHECKED	JDH
DATE	2-5-15
SCALE	1"=40'
JOB NO.	2014038
SHEET	C-5
OF	SHEETS



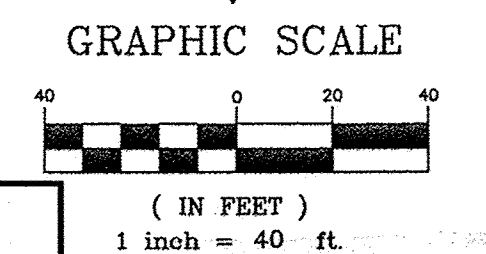
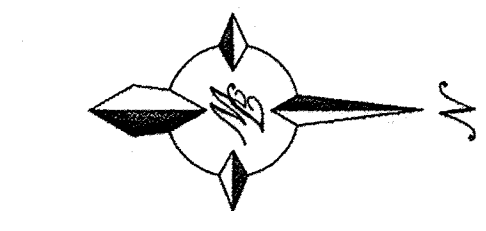
- LEGEND**
- Curb & Gutter
 - Boundary Line
 - - - Easement
 - Sidewalk
 - o Existing Curb & Gutter
 - o Single Clean Out
 - o Double Clean Out
 - o Existing SD Manhole
 - o Existing SAS Manhole
 - o Existing Fire Hydrant
 - o Existing Water Meter
 - o Existing Power Pole
 - o Existing Gas Valve
 - o Existing Overhead Utilities
 - o Existing Gas
 - o Existing Sanitary Sewer Line
 - o Existing Water Line
 - o Existing Storm Sewer Line
 - o Existing Index Contour
 - o Existing Contour
 - o Proposed Storm Drain (RCP or HDPE)
 - o Riprap See Detail Sheet C-11
 - o Concrete Flume, See Detail Sheet C-11



STRUCTURE TABLE			
STRUCTURE	RIM/GRATE	INV IN	INV OUT
CURB INLET 1	5173.90		5167.10
CURB INLET 2	5174.70		5172.18
DROP INLET 3	5174.30	5171.35	5171.25
CURB INLET 4	5174.40	5170.53	5170.43
DROP INLET 5	5175.20	5171.43	5171.43
DROP INLET 6	5175.30	5171.72	5171.72
SD MH 7	5175.30	5171.25	5171.25

- NOTE**
- SEE SHEET C-7 FOR GRADES AROUND BUILDING
 - SEE SHEET C-7 FOR FOUNDATION SUBSURFACE PREPARATION
 - SEE SHEET C-8 FOR FUEL PAD GRADING

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



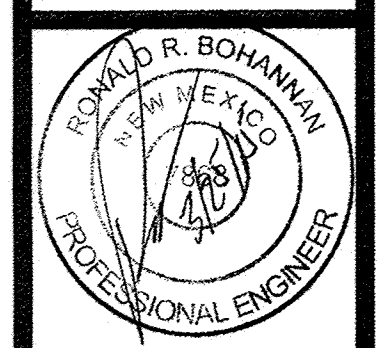
FOR REFERENCE ONLY

GRADING AND DRAINAGE PLAN

BEFORE YOU DIG
NM ONE CALL 260-1990

REVISIONS	BY

TERRA WEST, LLC
5571 MIDWAY PARK PL NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierwestllc.com



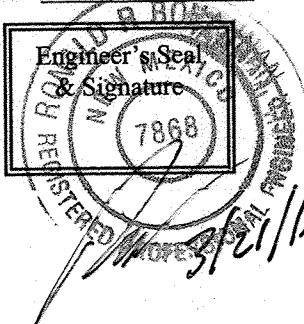
NEIGHBORHOOD MARKET #4676
ALBUQUERQUE (LADERA), BERNCO, NM
WAL-MART STORES, INC.
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BENTONVILLE, AR 72716



DRAWN	
CHECKED	
DATE	
2-5-15	
SCALE	
1"=40'	
JOB No.	
2014038	
SHEET	
C-6	
OF	
SHEETS	

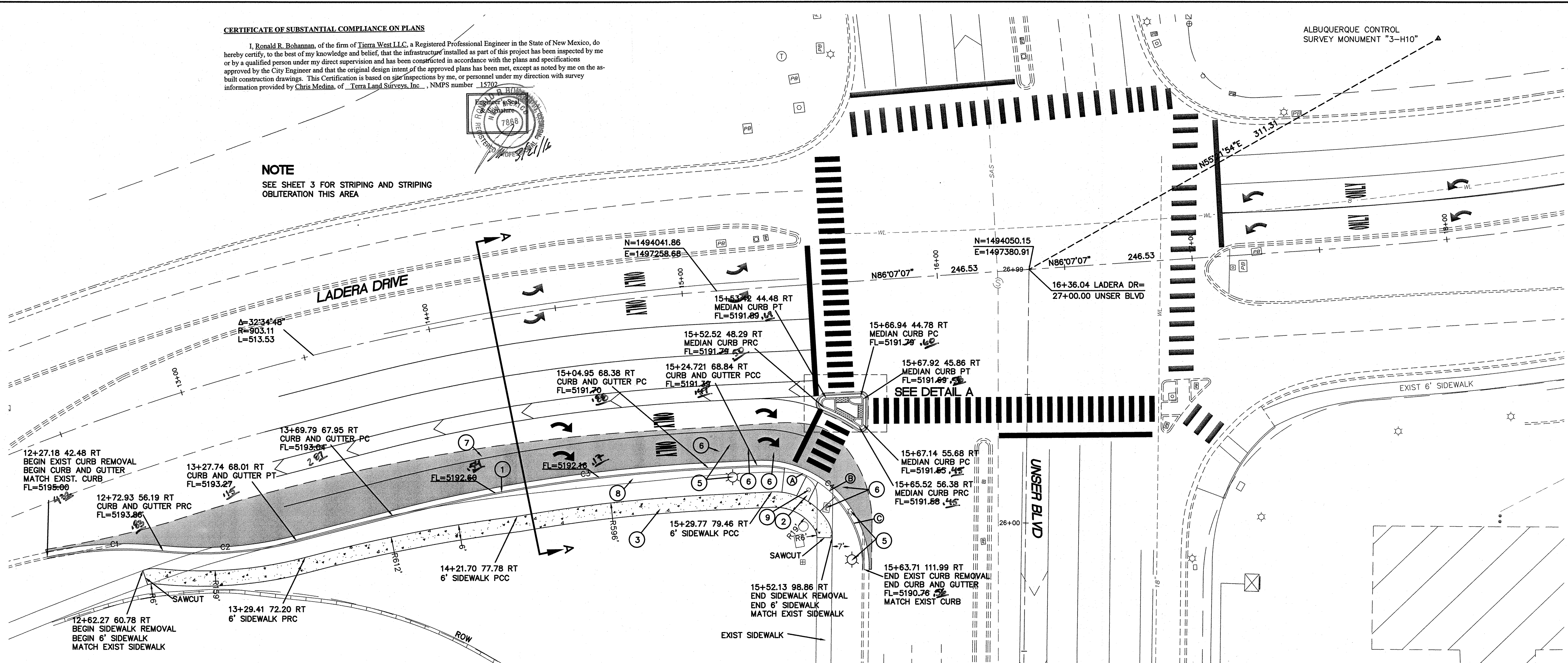
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Tierra Land Surveys, Inc., NMPS number 15702.



NOTE

SEE SHEET 3 FOR STRIPING AND STRIPING OBLITERATION THIS AREA



LEGEND

- ===== EXISTING CURB & GUTTER
- ===== PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- CENTERLINE
- RIGHT-OF-WAY
- 4" DASHED WHITE LINE
- 4" SOLID WHITE STRIPE
- SAWCUT LINE
- W ----- EXISTING WL
- SD ----- EXISTING SD
- SAS ----- EXISTING SAS

NEW ASPHALT PAVING SEE DETAIL THIS SHEET

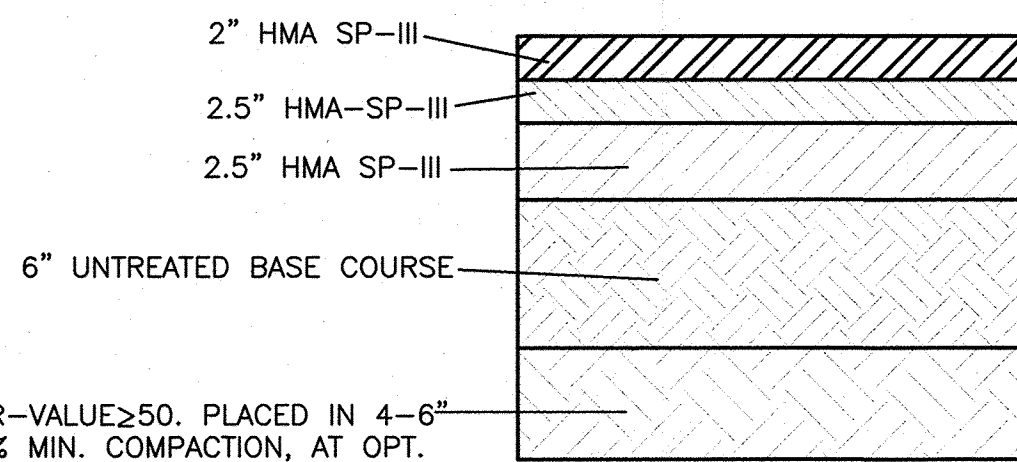
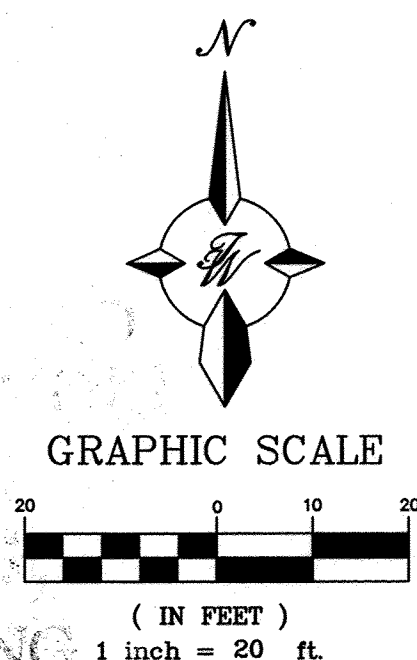
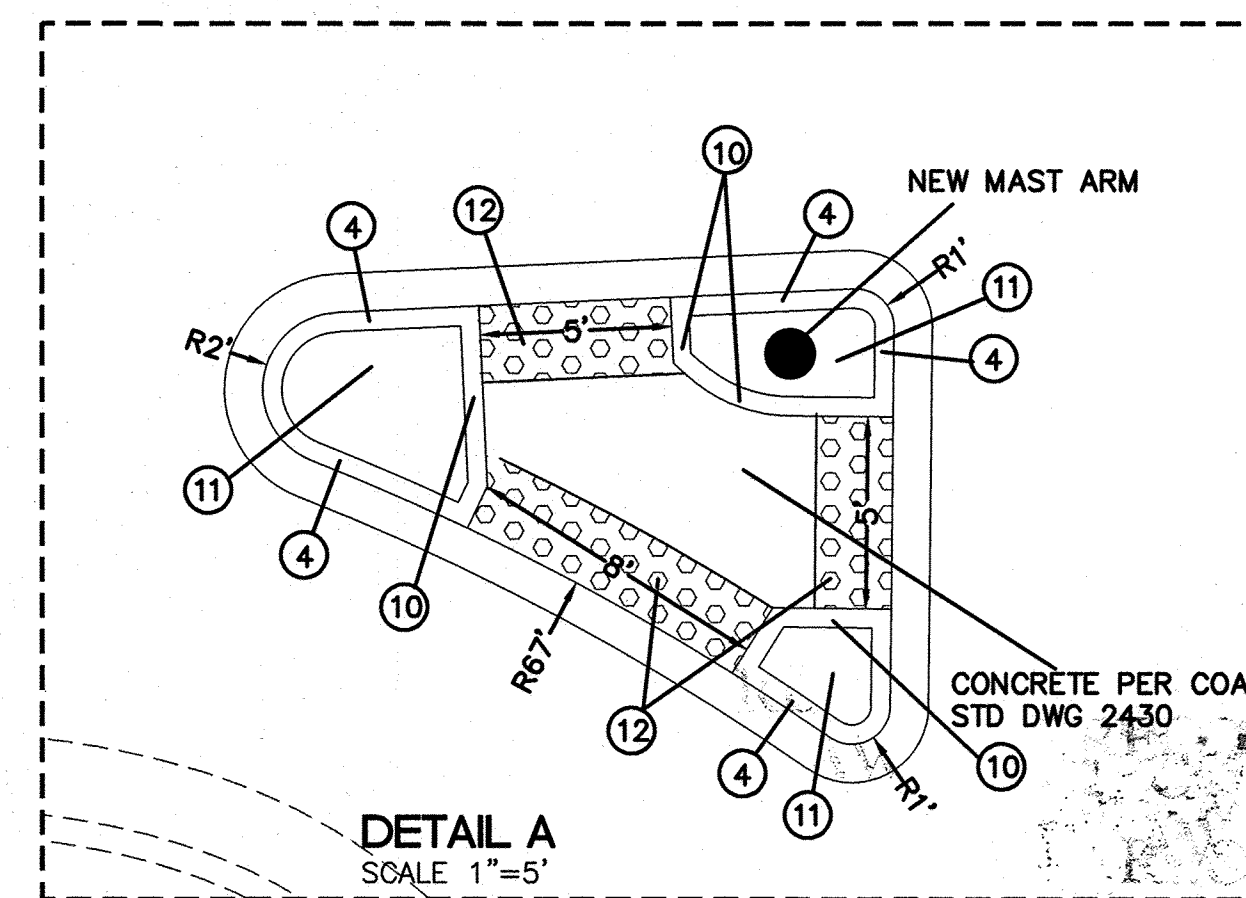
KEYED NOTES

- ① STANDARD 8" CURB AND GUTTER PER COA STD DWG 2415A
- ② ACCESSIBLE RAMP PER COA STD DWG 2441
- ③ 6" CONCRETE SIDEWALK PER COA STD DWG 2430
- ④ MEDIAN CURB PER COA STD DWG 2415B
- ⑤ RELOCATE EXISTING LIGHT POLE
- ⑥ RELOCATE EXISTING PULL BOXES PER SIGNAL PLAN
- ⑦ REMOVE AND DISPOSE 365 LF EXIST CURB, REMOVE TO NEAREST JOINT
- ⑧ REMOVE AND DISPOSE 290 LF EXIST SIDEWALK, REMOVE TO NEAREST JOINT
- ⑨ EXISTING CAMERA TO BE RELOCATED, SEE SIGNAL PLAN
- ⑩ 6" HEADER CURB PER COA STD DWG 2415B
- ⑪ MEDIAN CONCRETE PAVING PER COA STD DWG 2408 & 2502
- ⑫ 24" DETECTABLE WARNING SURFACE SEE DETAIL SHEET 22

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	17°23'53"	149.97	45.54
C2	20°06'58"	149.99	52.66
C3	11°49'28"	606.00	125.07
C4	93°14'23"	40.00	65.09
C5	34°26'04"	35.00	21.03
C6	111°13'42"	25.00	48.53

QUARTER POINTS

C4	FL	ELEV.
	A	5191.24
	B	5191.08
	C	5190.92



12" SUBGRADE SOIL, R-VALUE ≥ 50, PLACED IN 4-6" COMPACTED LIFTS, 95% MIN. COMPACTION, AT OPT. MOISTURE ± 2.0%, ASTM D1557, OR OPT. MOISTURE, TO +4%, ASTM D698 FOR SOIL W/35% OR MORE MATERIAL PASSING THE NO. 200 SIEVE. SOIL NOT HAVING THE MIN. R-VALUE OF 50, SHALL BE REMOVED TO A DEPTH OF 2' BELOW FINISH SUBGRADE AND REPLACED BY THE CONTRACTOR WITH SUITABLE MATERIAL OR A PAVEMENT SHALL BE DESIGNED BY TIERRA WEST, LLC ACCOMMODATING THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.

TYP PAVEMENT SECTION FROM CITY PROJECT NO 691591

NICORD
DRAWING

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK	ALBUQUERQUE CONTROL SURVEY MONUMENT "3-H10"	DATE	NO.	BY	REMARKS	NO.
TIERRA WEST LLC	PAVING IMPROVEMENTS	NEW MEXICO STATE PLANE COORDINATES				DESIGN	
INSPECTOR	DATE	CENTRAL ZONE - NAD 83				REVISIONS	
VERIFICATION BY		NORTH=1,493,985.681				DATE	
DRAWINGS		EAST=1,497,135.488				DATE	
COORDINATED BY		ELEVATION=5186.151 FEET (NAD 1983)				DATE	
MICRO-FILM INFORMATION		DELTA ALPHA=-00°16'31.6"				DATE	
RECORDED BY		GROUND TO GRID FACTOR=0.999678906				DATE	
NO.						DATE	

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrawestllc.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DIVISION
ENGINEERING GROUP

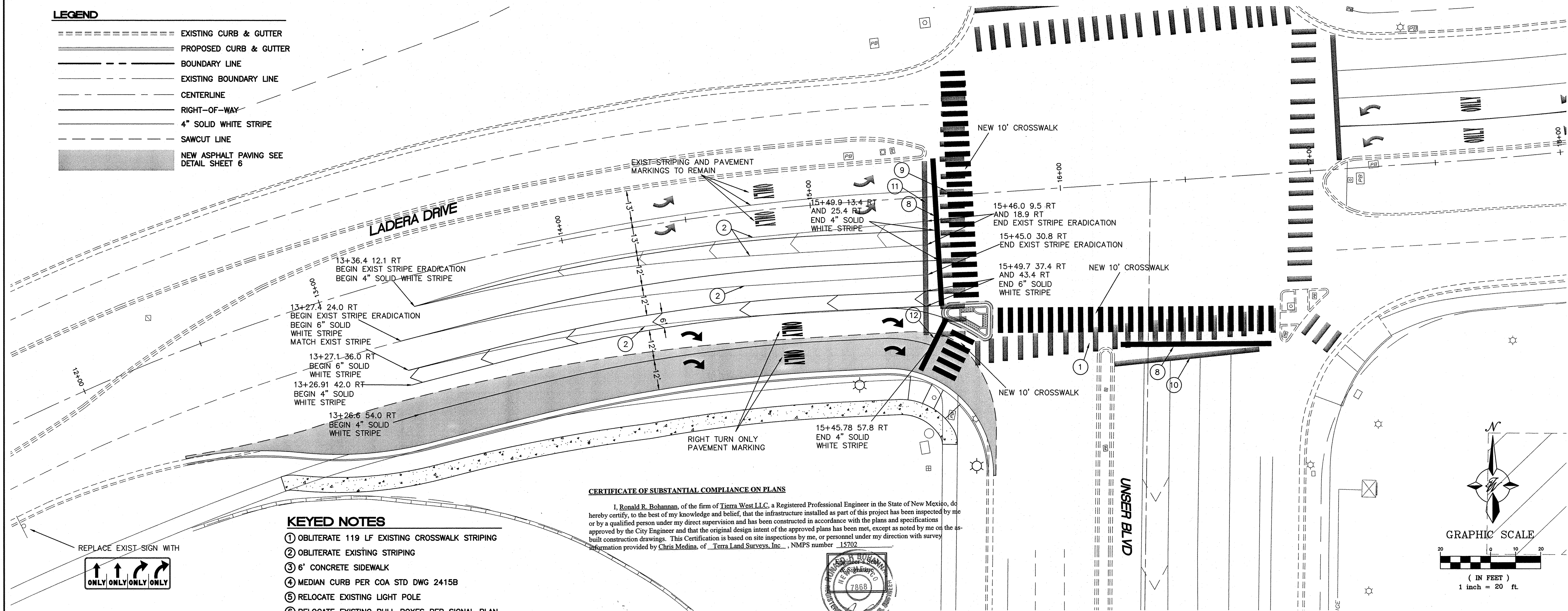
LADERA DRIVE PAVING IMPROVEMENTS PLAN 12+25 TO 16+00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED	APPROVED		
APR 27 2015	JUL 30 2015		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

CITY PROJECT NO. 529882 ZONE MAP NO. H-9-Z SHEET # 2 of 22

LEGEND

- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- CENTERLINE
- RIGHT-OF-WAY
- 4" SOLID WHITE STRIPE
- SAWCUT LINE
- NEW ASPHALT PAVING SEE DETAIL SHEET 6

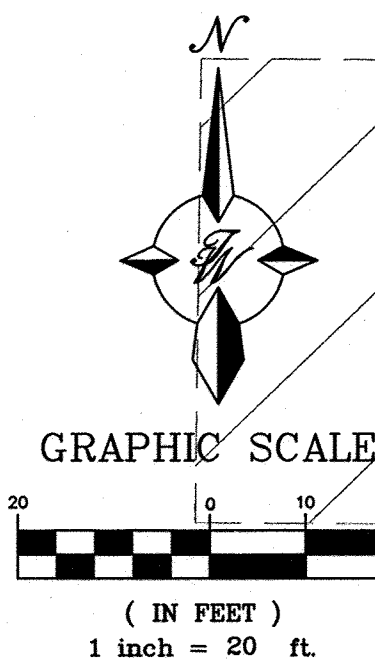
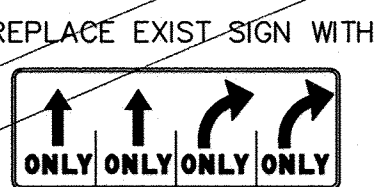
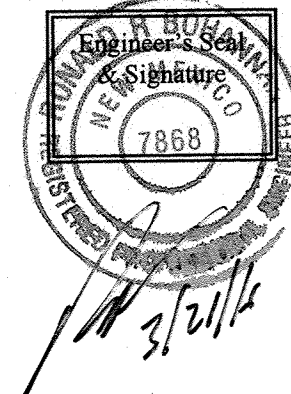


KEYED NOTES

- OBLITERATE 119 LF EXISTING CROSSWALK STRIPING
- OBLITERATE EXISTING STRIPING
- 6" CONCRETE SIDEWALK
- MEDIAN CURB PER COA STD DWG 2415B
- RELOCATE EXISTING LIGHT POLE
- RELOCATE EXISTING PULL BOXES PER SIGNAL PLAN
- REMOVE AND DISPOSE 365 LF EXIST CURB
- 2' STOP BAR
- OBLITERATE 103 LF EXISTING CROSSWALK STRIPING
- OBLITERATE 58 LF STOP BAR
- OBLITERATE 69 LF STOP BAR
- 2' STOP BAR

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Terra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPS number 15702.



GENERAL NOTES:

- OBLITERATE EXISTING CROSSWALK STRIPING
- EXISTING MARKINGS IDENTIFIED TO BE REMOVED SHALL BE COMPLETELY OBLITERATED TO A MAXIMUM DEPTH OF 0.25" AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED, PER COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 443.3.2
- ALL SIGNS SHALL BE MADE IN ACCORDANCE WITH THE M.U.T.C.D. (CURRENT EDITION) SPECIFICATIONS.
- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. (CURRENT EDITION) SPECIFICATIONS.
- OBLITERATE EXISTING STOP BAR

PERMANENT SIGNING AND STRIPING NOTES:

1. ALL REGULATORY, WARNING, SPECIAL, AND GUIDE SIGNS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

SIGN	SIGN CODE	COLOR	LETTER SHEETING	BACKGROUND SHEETING
STOP	R1-1	(W/RED)	TYPE VII OR IX	TYPE XI
YIELD	R1-2	(W/RED)	TYPE VII OR IX	TYPE XI
DO NOT ENTER	R5-1	(W/RED)	TYPE VII OR IX	TYPE XI
WRONG WAY STOP	R5-1A	(W/RED)	TYPE VII OR IX	TYPE XI
SCHOOL BUS STOP	S3-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI
SCHOOL BUS X-ING	S1-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI
PEDESTRIAN X-ING	W11-2	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI
BIKE X-ING	W11-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI
ALL SCHOOL/PED/BIKE SUPPLEMENTAL PLAQUES		(BLK/FLOURESCENT YELLOW GREEN) WHEREVER BLK/YELLOW IS SPECIFIED COLOR IN MUTCD	TYPE VII OR IX	TYPE XI
ALL OTHER WARNING SIGNS AND SUPPLEMENTAL PLAQUES		(BLK/FLOURESCENT YELLOW GREEN) WHEREVER BLK/YELLOW IS SPECIFIED COLOR IN MUTCD	TYPE VII OR IX	TYPE XI
GUIDE & DESTINATION SIGNS INCLUDES EXTRUDED & NON-EXTRUDED (OVERHEAD & GROUND MOUNTED)	ALL	(W/GREEN) EXCEPT WHERE SPECIFIED OTHERWISE IN THE MUTCD	TYPE VII OR IX	TYPE XI
E-CODE SIGNS	E11-1, 1A 1B, 1C	(BLK/YELLOW)	TYPE VII OR IX	TYPE XI
RECREATIONAL & CULTURAL INTEREST	ALL	(W/BROWN)	TYPE VII OR IX	TYPE XI
GENERAL SERVICES	ALL	(W/BLUE)	TYPE VII OR IX	TYPE XI
SPECIFIC SERVICES	ALL	(W/BLUE)	TYPE VII OR IX	TYPE XI
ALL OTHER PERMANENT SIGNS		(BLK/WHITE) EXCEPT WHERE SPECIFIED OTHERWISE IN THE MUTCD	TYPE IV	TYPE XI

2. ONLY 0.125 INCHES THICK ALUMINUM PANEL SIGNS ARE PERMITTED FOR WARNING AND REGULATORY SIGNS.

3. ANTI-GRAFFITI COATING SHALL BE APPLIED ON ALL REGULATORY, WARNING, GUIDE, AND OTHER SPECIAL SIGNS.

4. QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.

5. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH NM STANDARDS SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) AND ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATION. ALSO THE DEVICES SHALL COMPLY WITH THE CURRENT EDITION, WITH REVISION, OF THE MUTCD.

6. EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (CURRENT EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, SYMBOLS AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.

7. POST LENGTHS ARE BASED ON A MINIMUM OF 5 FT FOR RURAL ROADWAY SECTIONS TO A MINIMUM OF 7 FT FOR URBAN AND INTERSTATE ROADWAY SECTIONS. THE LENGTHS ARE MEASURED FROM THE BOTTOM OF THE SIGN TO NEAR EDGE OF THE DRIVING LANE.

8. THE LATERAL CLEARANCE OF SIGNS SHALL BE NO CLOSER THAN THE 6 FT FROM THE EDGE OF SHOULDER OR 12 FT FROM THE EDGE OF TRAVELED WAY FOR RURAL AREAS AND NO CLOSER THAN 2 FT FROM FACE OF CURB FOR URBAN AREAS.

9. ALL SIGNING HARDWARE, INCLUDING BRACKETS, (FOR MOUNTING ALL STREET NAME SIGNS, W1-8-18 BACK TO BACK MOUNTING, ETC.) ARE CONSIDERED INCIDENTAL TO SIGN INSTALLATION. THEREFORE, NO PAYMENT WILL BE MADE.

10. THREE 4 LB/FT SIGN POST INSTALLATION APPROVED ONLY IF THE SPAN BETWEEN THE OUTER POSTS EXCEEDS 84" (SIGN WIDTH OF 96" OR GREATER).

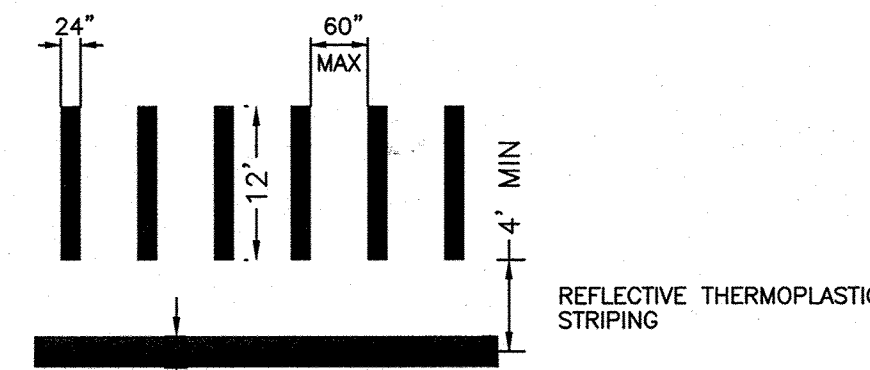
11. 3"-6" BASE POST ARE REQUIRED FOR ALL SMALL SIGN POST. SEE STANDARD SERIAL DRAWING 701-02-1/3 FOR DETAILS.

12. SIGN POST SHALL BE SQUARE TUBING AS APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.

13. CONTRACTOR SHALL FIELD VERIFY ALL SIGNING INFORMATION, TEXT, AND LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. NEW SIGN LOCATIONS SHALL BE APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.

14. HOT THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON ALL STRIPING (LONG LINES, CROSSWALKS, LEGENDS, SYMBOLS, ETC.) THE THERMOPLASTIC PAINT SHALL BE APPLIED AT A THICKNESS OF 120 MIL.

15. WATER BLASTING IS THE ONLY APPROVED METHOD OF EXISTING STRIPE REMOVAL WITHIN DISTRICT THREE. THE USE OF BLACK PAINT AS A METHOD OF REMOVING OR COVERING EXISTING STRIPING IS STRICTLY PROHIBITED.

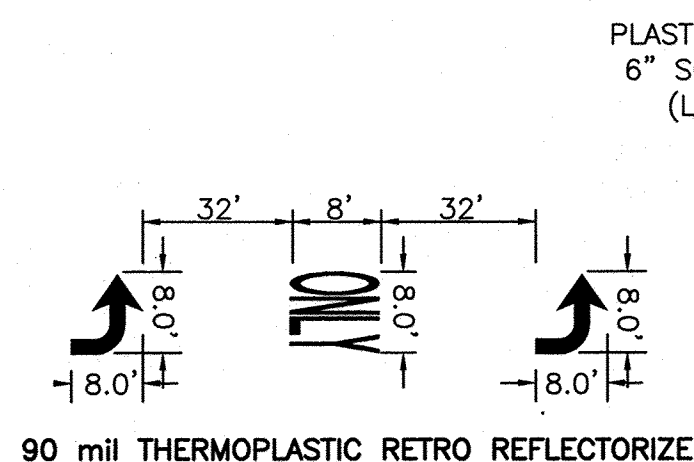


ALL PAVEMENT MARKINGS SHALL CONFORM TO M.U.T.C.D. SPECS (LATEST EDITION)

MAKE SURE VEHICLE WHEEL PATH IS BETWEEN MARKINGS

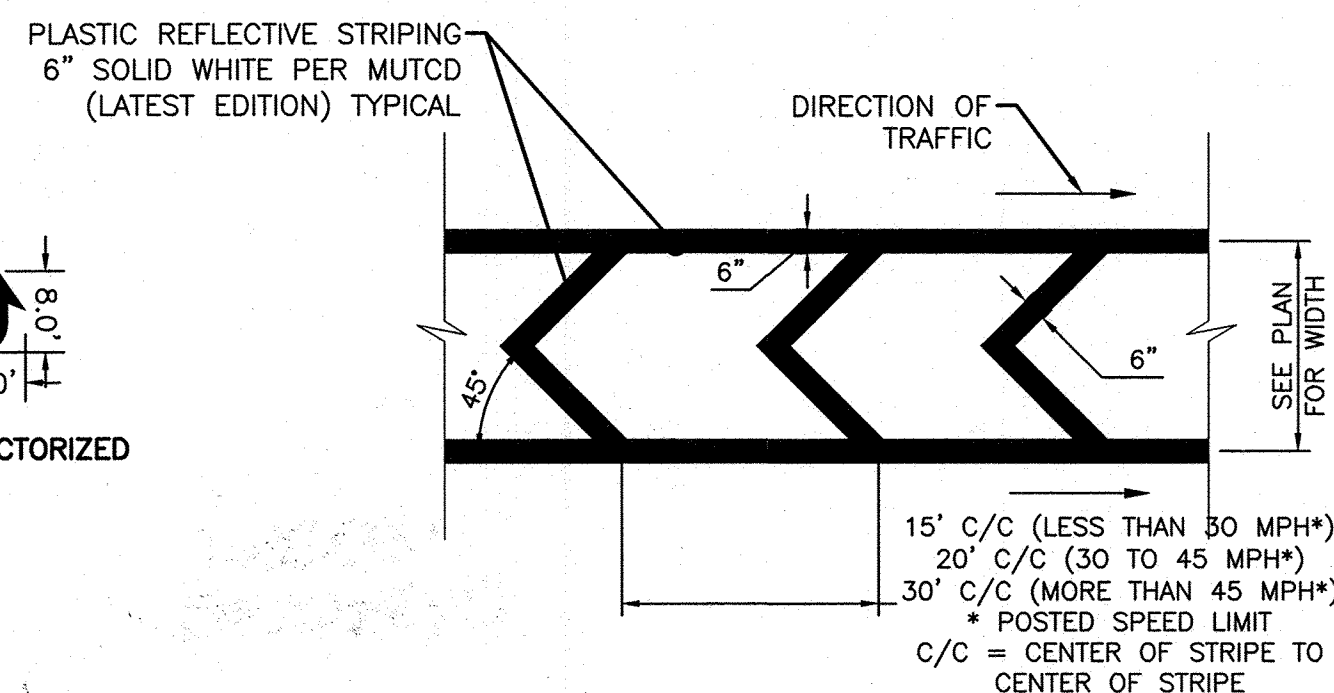
CROSSWALK DETAIL

NTS



ARROW DETAILS

NTS

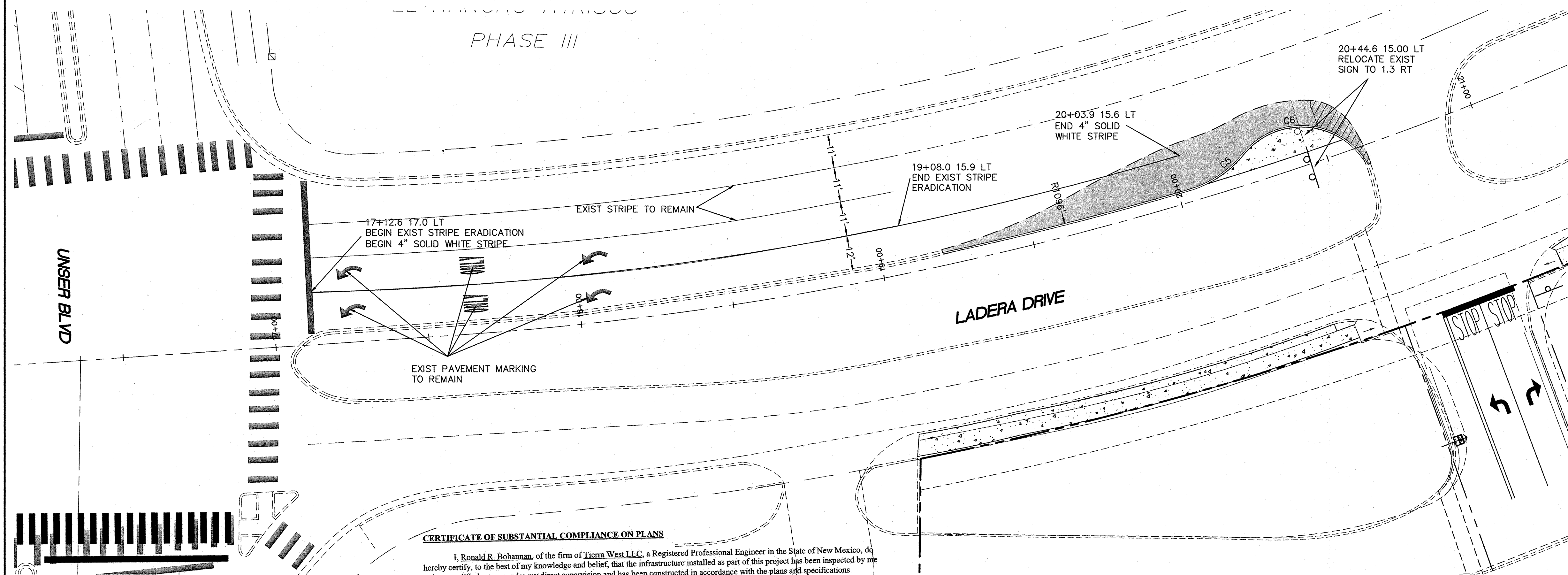


CHEVRON STRIPES DETAIL

NTS

RECORD DRAWING

TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com		CITY OF ALBUQUERQUE PUBLIC WORKS DIVISION ENGINEERING GROUP	
UNSER BOULEVARD STRIPING AND SIGNAGE PLAN 12+25 TO 16+00			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.
APPROVED APR 27 2015	APPROVED JUL 30 2015		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
CITY PROJECT NO.	ZONE MAP NO.	SHEET #	
529882	H-9-Z	3 of 22	



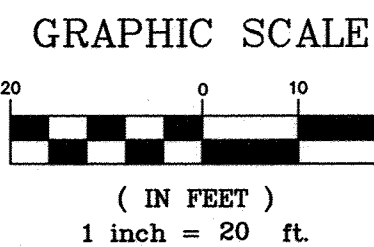
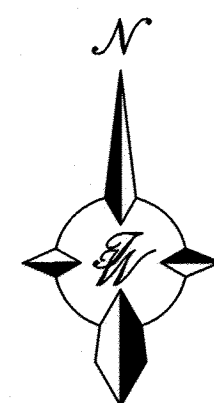
LEGEND

=====	EXISTING CURB & GUTTER
=====	PROPOSED CURB & GUTTER
-----	BOUNDARY LINE
-----	EXISTING BOUNDARY LINE
-----	CENTERLINE
-----	RIGHT-OF-WAY
-----	4" DASHED WHITE LINE
-----	4" SOLID WHITE STRIPE
-----	SAWCUT LINE
-----	EXISTING WL
-----	EXISTING SD
-----	EXISTING SAS
=====	NEW ASPHALT PAVING SEE DETAIL SHEET 6

GENERAL NOTES:

1. OBLITERATE ALL CONFLICTING STRIPING AND PAVEMENT MARKING UNLESS OTHERWISE SPECIFIED
2. EXISTING MARKINGS IDENTIFIED TO BE REMOVED SHALL BE COMPLETELY OBLITERATED TO A MAXIMUM DEPTH OF 0.25" AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED, PER COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 443.3.2
3. ALL SIGNS SHALL BE MADE IN ACCORDANCE WITH THE M.U.T.C.D. (CURRENT EDITION) SPECIFICATIONS.
4. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. (CURRENT EDITION) SPECIFICATIONS.

RECORD
DRAWING



PERMANENT SIGNING AND STRIPING NOTES:

1. ALL REGULATORY, WARNING, SPECIAL, AND GUIDE SIGNS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:					2. ONLY 0.125 INCHES THICK ALUMINUM PANEL SIGNS ARE PERMITTED FOR WARNING AND REGULATORY SIGNS.				
SIGN	SIGN CODE	COLOR	LETTER SHEETING	BACKGROUND SHEETING	3. ANTI-GRAFFITI COATING SHALL BE APPLIED ON ALL REGULATORY, WARNING, GUIDE, AND OTHER SPECIAL SIGNS.				
STOP	R1-1	(W/RED)	TYPE VII OR IX	TYPE XI	4. QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.				
YIELD	R1-2	(W/RED)	TYPE VII OR IX	TYPE XI	5. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH NM STANDARDS SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (LATEST EDITION) AND ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATION. ALSO THE DEVICES SHALL COMPLY WITH THE CURRENT EDITION, WITH REVISION, OF THE MUTCD.				
DO NOT ENTER	RS-1	(W/RED)	TYPE VII OR IX	TYPE XI	6. EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (CURRENT EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, SYMBOLS AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.				
WRONG WAY	RS-1A	(W/RED)	TYPE VII OR IX	TYPE XI	7. POST LENGTHS ARE BASED ON A MINIMUM OF 8 FT FOR RURAL ROADWAY SECTIONS TO A MINIMUM OF 7 FT FOR URBAN AND INTERSTATE ROADWAY SECTIONS. THE LENGTHS ARE MEASURED FROM THE BOTTOM OF THE SIGN TO NEAR EDGE OF THE DRIVING LANE.				
SCHOOL BUS STOP	S3-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI	8. THE LATERAL CLEARANCE OF SIGNS SHALL BE NO CLOSER THAN THE 6 FT FROM THE EDGE OF SHOULDER OR 12 FT FROM THE EDGE OF TRAVELED WAY FOR RURAL AREAS AND NO CLOSER THAN 2 FT FROM FACE OF CURB FOR URBAN AREAS.				
SCHOOL BUS X-ING	S1-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI	9. ALL SIGNING HARDWARE, INCLUDING BRACKETS, (FOR MOUNTING ALL STREET NAME SIGNS, W1-18 BACK TO BACK MOUNTING, ETC.) ARE CONSIDERED INCIDENTAL TO SIGN INSTALLATION. THEREFORE, NO PAYMENT WILL BE MADE.				
PEDESTRIAN X-ING	W11-2	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI	10. THREE 4 LB/FT SIGN POST INSTALLATION APPROVED ONLY IF THE SPAN BETWEEN THE OUTER POSTS EXCEEDS 84" (SIGN WIDTH OF 96" OR GREATER).				
BIKE X-ING	W11-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VII OR IX	TYPE XI	11. 3"-6" BASE POST ARE REQUIRED FOR ALL SMALL SIGN POST. SEE STANDARD SERIAL DRAWING 701-02-1/3 FOR DETAILS.				
ALL SCHOOL/PED/BIKE SUPPLEMENTAL PLAQUES		(BLK/FLOURESCENT YELLOW GREEN)WHEREVER BLK/YELLOW IS SPECIFIED COLOR IN MUTCD	TYPE VII OR IX	TYPE XI	12. SIGN POST SHALL BE SQUARE TUBING AS APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.				
ALL OTHER WARNING SIGNS AND SUPPLEMENTAL PLAQUES		(BLK/FLOURESCENT YELLOW GREEN)WHEREVER BLK/YELLOW IS SPECIFIED COLOR IN MUTCD	TYPE VII OR IX	TYPE XI	13. CONTRACTOR SHALL FIELD VERIFY ALL SIGNING INFORMATION, TEXT, AND LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. NEW SIGN LOCATIONS SHALL BE APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.				
GUIDE & DESTINATION SIGNS INCLUDES EXTRUDED & NON-EXTRUDED (OVERHEAD & GROUND MOUNTED)	ALL	(W/GREEN) EXCEPT WHERE SPECIFIED OTHERWISE IN THE MUTCD	TYPE VII OR IX	TYPE XI	14. HOT THERMOPLASTIC PAVEMENT MARKINGS SHALL TO BE USED ON ALL STRIPING (LONG LINES, CROSSWALKS, LEGENDS, SYMBOLS, ETC.) THE THERMOPLASTIC PAINT SHALL BE APPLIED AT A THICKNESS OF 120 MIL.				
E-CODE SIGNS	E11-1, 1A 1B, 1C	(BLK/YELLOW)	TYPE VII OR IX	TYPE XI	15. WATER BLASTING IS THE ONLY APPROVED METHOD OF EXISTING STRIPE REMOVAL WITHIN DISTRICT THREE. THE USE OF BLACK PAINT AS A METHOD OR REMOVING OR COVERING EXISTING STRIPING IS STRICTLY PROHIBITED.				
RECREATIONAL & CULTURAL INTEREST	ALL	(W/BROWN)	TYPE VII OR IX	TYPE XI					
GENERAL SERVICES	ALL	(W/BLUE)	TYPE VII OR IX	TYPE XI					
SPECIFIC SERVICES	ALL	(W/BLUE)	TYPE VII OR IX	TYPE XI					
ALL OTHER PERMANENT SIGNS		(BLK/WHITE) EXCEPT WHERE SPECIFIED OTHERWISE IN THE MUTCD	TYPE IV	TYPE XI					

AS BUILT INFORMATION

CONTRACTOR	WORK
STAKED BY	ACCEPTANCE BY
FIELD	DRAWINGS
CORRECTED BY	NO.

BENCH MARKS

ALBUQUERQUE CONTROL SURVEY MONUMENT "3-H10"	DATE
NEW MEXICO STATE PLANE COORDINATES	BY
(CENTRAL ZONE - NAD 83)	NO.
NORTH=1,493,985.681	
EAST=1,497,135.488	
ELEVATION=5196.151 FEET (NAVD 1989)	
DELTA ALPHA=-00°16'31.81"	
GROUND TO GRID FACTOR=0.99978906	

SURVEY INFORMATION

FIELD NOTES	DATE
BY	BY
NO.	NO.

ENGINEER'S SEAL

DATE	BY
NO.	NO.

REVISIONS

DATE	BY
NO.	NO.

DESIGN

DATE	BY
NO.	NO.

REVISIONS

DATE	BY
NO.	NO.

DESIGN

DATE	BY
NO.	NO.

REVISIONS

DATE	BY
NO.	NO.

DESIGN

DATE	BY
NO.	NO.

TIERRA WEST, LLC

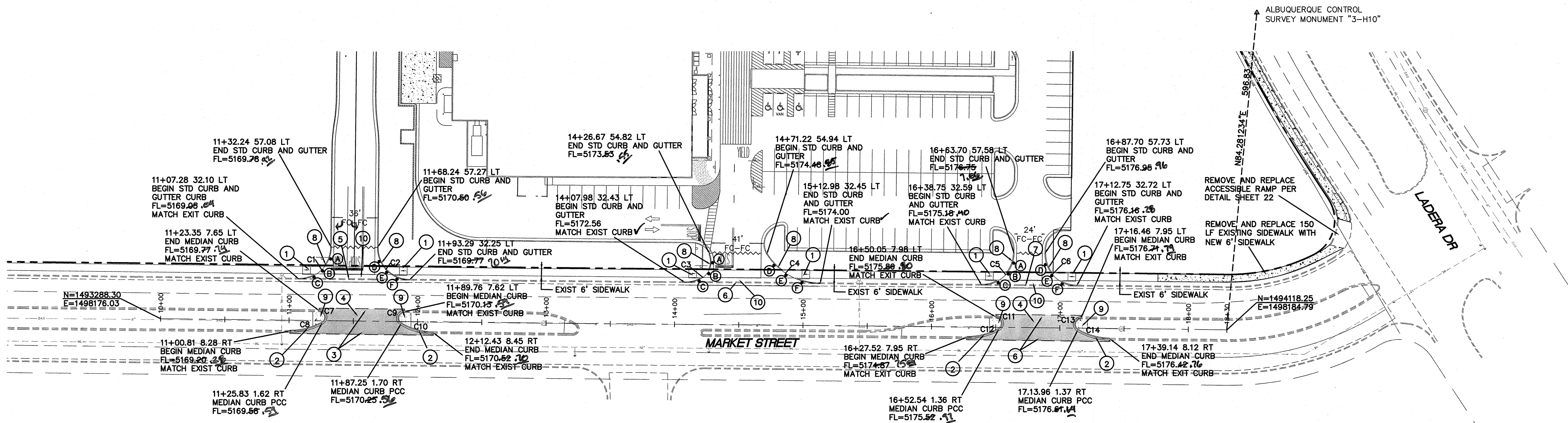
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrawestllc.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DIVISION
ENGINEERING GROUP

LADERA DRIVE

STRIPING AND SIGNAGE PLAN 19+00 TO 21+00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE	APPROVED CITY ENGINEER		
CITY PROJECT NO. 529882	ZONE MAP NO. H-9-Z	SHEET # 5 of 22	



KEYED NOTES

- 1 UNIDIRECTIONAL ACCESSIBLE RAMP PER DETAIL SHEET 22
- 2 MEDIAN CURB PER COA STD DWG 2415B
- 3 REMOVE AND DISPOSE 180 LF EXISTING CURB, REMOVE TO NEAREST JOINT
- 4 REMOVE AND DISPOSE EXISTING LANDSCAPING NEW PAVING PER ASPHALT SECTION COA STD DWG 2465
- 5 REMOVE AND DISPOSE 85 LF EXISTING CURB AND SIDEWALK, REMOVE TO NEAREST JOINT
- 6 REMOVE AND DISPOSE 105 LF EXISTING CURB, REMOVE TO NEAREST JOINT
- 7 REMOVE AND DISPOSE 75 LF EXISTING CURB AND SIDEWALK, REMOVE TO NEAREST JOINT
- 8 8" STD CURB AND GUTTER PER COA STD DWG 2415A
- 9 MEDIAN CONCRETE PAVING PER COA STD DWG 2408 & 2502
- 10 6" VALLEY GUTTER PER COA STD DWG 2420

LEGEND

- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- CENTERLINE
- RIGHT-OF-WAY
- SAWCUT LINE
- EXISTING WL
- EXISTING SD
- EXISTING SAS
- WATER BLOCK
- NEW ASPHALT PAVING

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	89°50'39"	25.00'	39.20
C2	90°10'31"	25.00'	39.35
C3	84°00'36"	15.00'	21.99
C4	56°37'37"	50.00'	49.42
C5	89°52'27"	25.00'	39.21
C6	90°08'06"	25.00'	39.33
C7	150°17'51"	5.00'	13.12
C8	29°59'25"	50.00'	26.17
C9	149°48'33"	5.00'	13.07
C10	30°13'19"	50.00'	26.37
C11	150°17'51"	5.00'	13.12
C12	29°59'25"	50.00'	26.17
C13	149°48'33"	5.00'	13.07
C14	30°13'19"	50.00'	26.37

QUARTER POINTS

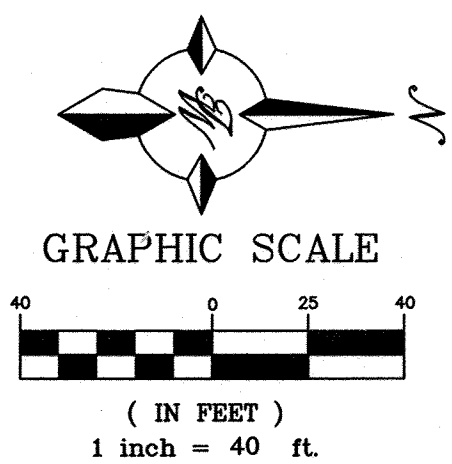
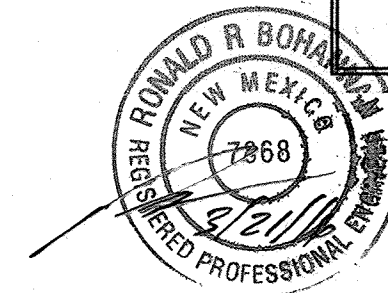
FL	ELEV.	FL	ELEV.	FL	ELEV.
A	5169.60	D	5170.32	A	5173.28
B	5169.42	E	5170.14	B	5173.04
C	5169.24	F	5169.96	C	5172.80

FL	ELEV.	FL	ELEV.	FL	ELEV.
D	5174.36	A	5176.36	D	5176.75
E	5174.24	B	5175.96	E	5176.56
F	5174.12	C	5175.57	F	5176.36

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

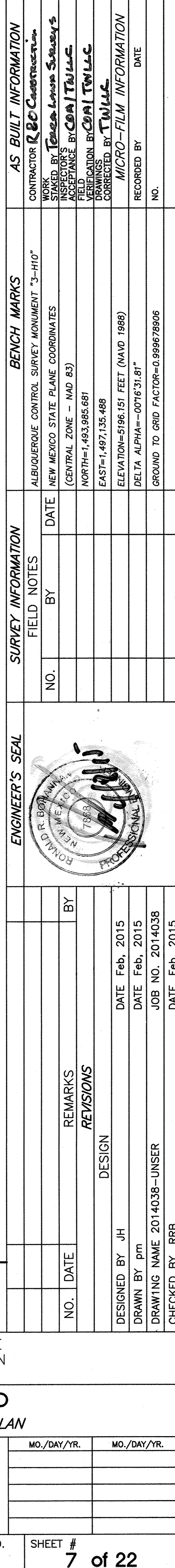
I, Ronald R. Bohannon, of the firm of Terra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPS number 13702

Engineer's Seal
& Signature



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK ORDER	ALBUQUERQUE CONTROL SURVEY MONUMENT "3-H10"	DATE	NO.	BY	REMARKS	DESIGN
INSPECTOR'S ACCEPTANCE BY	INSPECTOR'S ACCEPTANCE BY	NEW MEXICO STATE PLANE COORDINATES					
VERIFICATION BY	VERIFICATION BY	CENTRAL ZONE - NAD 83					
DRAWINGS	DRAWINGS	NORTH=1,493,985.681					
RECORDED BY	RECORDED BY	EAST=1,497,135.688					
MICRO-FILM INFORMATION	MICRO-FILM INFORMATION	ELEVATION=5166.151 FEET (NAID 1988)					
		DELTA ALPHA=-0.0763181"					
		GROUND TO GRID FACTOR=0.999678906					

TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrowestllc.com		CITY OF ALBUQUERQUE PUBLIC WORKS DIVISION ENGINEERING GROUP	
MARKET STREET PAVING IMPROVEMENTS PLAN		DESIGNED BY JH DRAWN BY pm DRAWING NAME 2014038-MARKET CHECKED BY RRB	
DESIGN REVIEW COMMITTEE APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED JUL 30 2015 CITY ENGINEER	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 529882	ZONE MAP NO. H-9-Z	SHEET #	6 of 22



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

SIGNAL NOTES

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

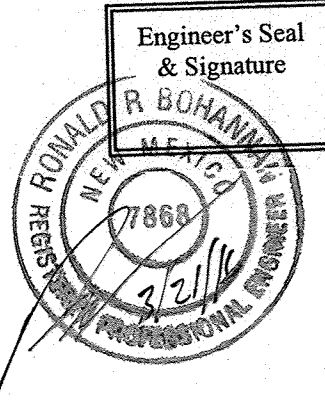
INCIDENTAL ITEMS *

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAMS.
3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. HAULING OF NON SALVAGEBLE MATERIAL TO BE DISPOSED TO CITY LANDFILL.
8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY TRAFFIC ENGINEERING OPERATIONS YARD.
9. LEAN FILL FOR CONDUIT 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.

* 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.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Terra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPS number 15702



DEFINITIONS

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

TRAFFIC SIGNAL LEGEND

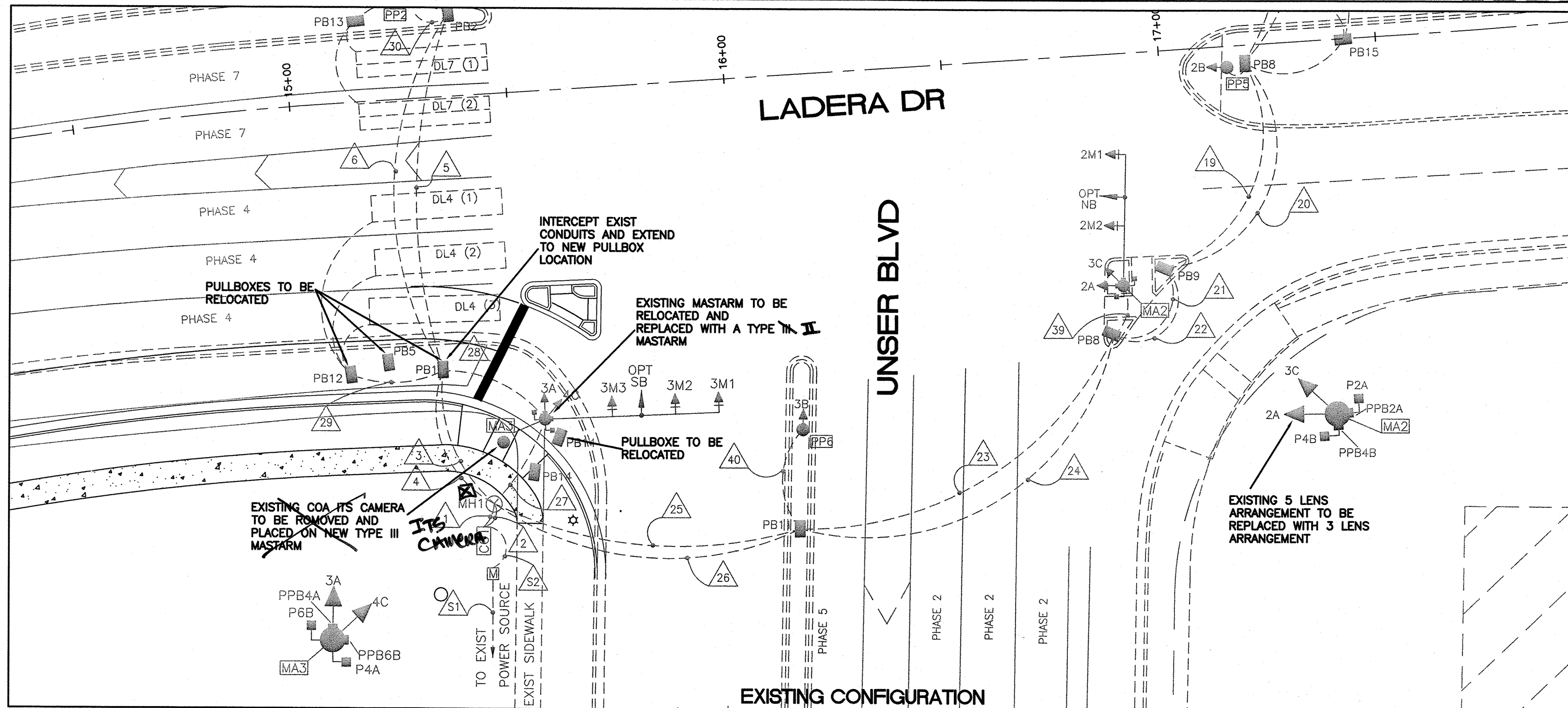
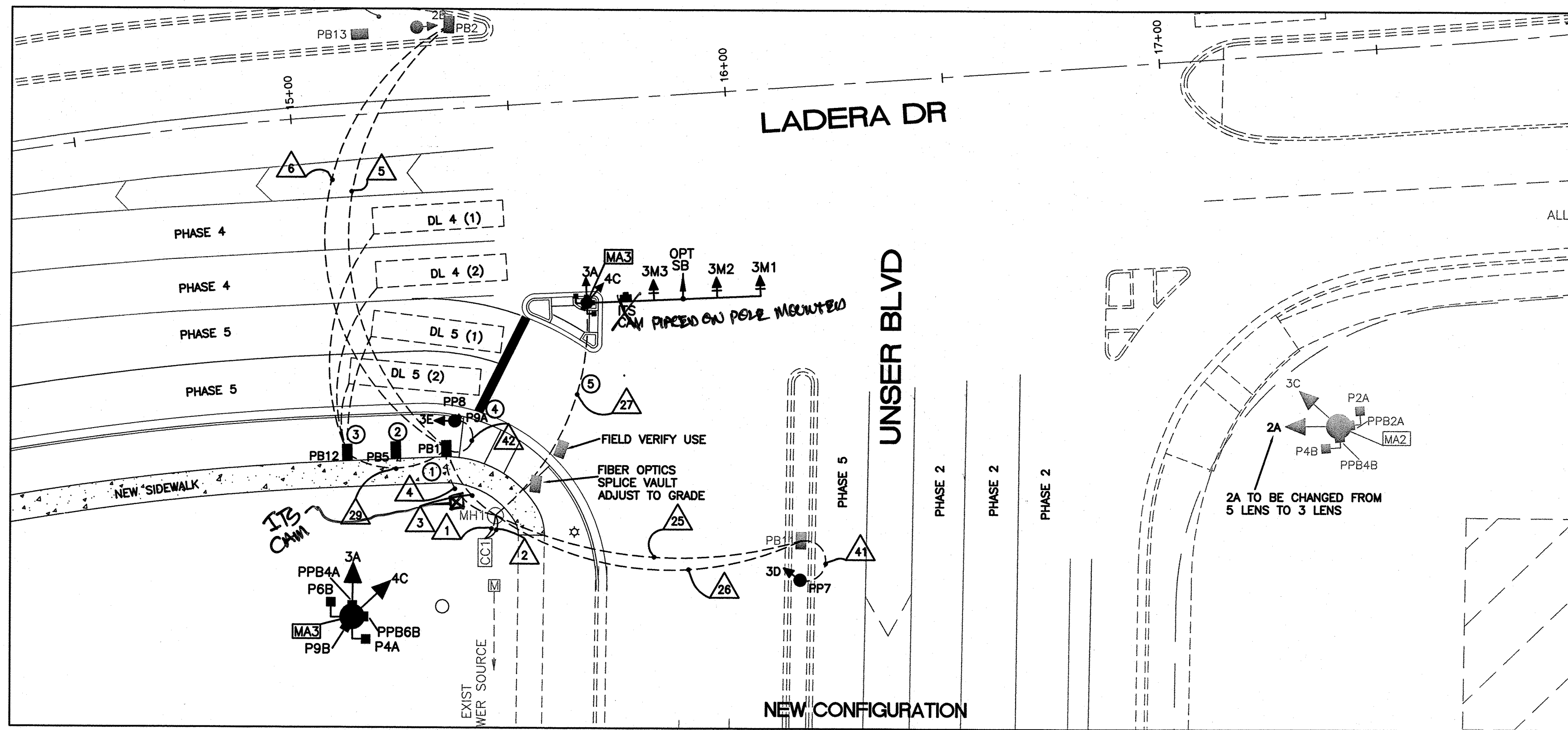
NEW	EXISTING	ITEM
		PULL BOX
		SERVICE POLE
		METER PEDESTAL
		CONTROLLER CABINET
		CONDUIT RUN (SIGNALS)
		CONDUIT RUN (INTERCONNECT)
		LOOP DETECTOR
		TRAFFIC SIGNAL PEDESTAL POLE
		CONDUIT RUN NUMBER (SIGNAL)
		CONDUIT RUN NUMBER (POWER SERVICE)
		CONDUIT RUN NUMBER (INTERCONNECT)
		CONDUIT RUN NUMBER (WARNING BEACON)
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACK PLATE, AND OPTICAL DETECTOR
		TRAFFIC SIGNAL, BACK PLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		TRAFFIC SIGNAL, BACK PLATE, OPTICAL DETECTOR, LUMINAIRE,
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		SPLICE CABINET
		TRAFFIC MANHOLE
		VIDEO CAMERA

TIERRA WEST, LLC
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www.tierrowestllc.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

UNSER BLVD AND LADERA DR
SIGNAL NOTES

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE	APPROVED JUL 30 2015 CITY ENGINEER		
CITY PROJECT NO. 529882	ZONE MAP NO. H-9-Z	SHEET # 8	of 22



KEYED NOTES

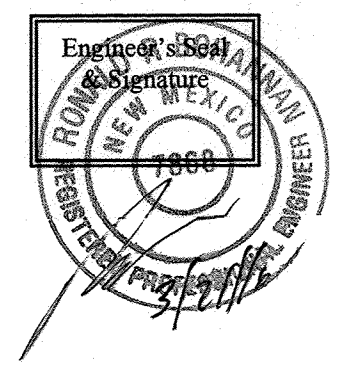
- 1 REMOVE PB1 INSTALL NEW PB3 BEHIND NEW CURB AND INTERCEPT CONDUITS 5 AND 6
- 2 REMOVE TRAFFIC LIGHT PULLBOX PB5 AND EXISTING TRAFFIC LIGHT PULLBOX PB5 AND NEW TRAFFIC LIGHT BEHIND NEW CURB AND RECONNECT TO POWER
- 3 REMOVE PB12 INSTALL NEW PULLBOX PB12 BEHIND NEW CURB REMOVE DL4 (1) AND DL4 (2) INSTALL NEW DL4 (1) AND DL4 (2)
- 4 INTERCEPT AND EXTEND CONDUITS 5 AND 6 TO NEW PULLBOX LOCATION
- 5 INTERCEPT AND EXTEND CONDUIT 27 TO NEW MASTARM

NOTES

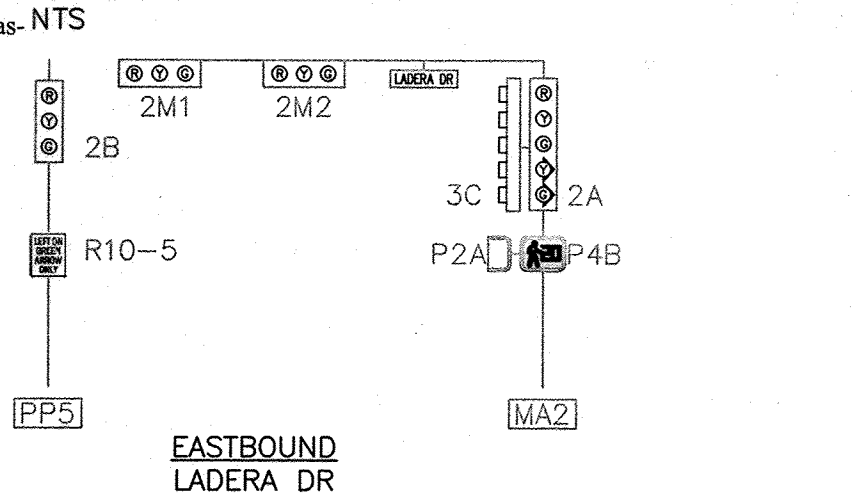
- 1 IMPROVEMENTS SHOWN ON PLAN TO BE COORDINATED AND COMPLETED AT THE TIME CITY IMPROVEMENTS ARE CONSTRUCTED
- 2 IF FIBER IS DAMAGED AS A PART OF THIS PROJECT, THE PROJECT WILL NEED TO REPLACE THE FIBER FROM EXISTING FULL SPLICE TO EXISTING FULL SPLICE. THE PROJECT OR CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF THE WORK

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPIS number 15702.



NEW TRAFFIC SIGNAL CONFIGURATION



TRAFFIC SIGNAL CONFIGURATION (EXISTING)

NTS

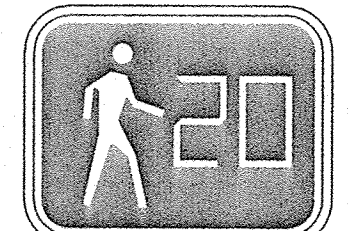
MASTARM SIGNING

MASTARM 1	UNSER BLVD
MASTARM 2	LADERA DR
MASTARM 3	UNSER BLVD
MASTARM 4	LADERA DR

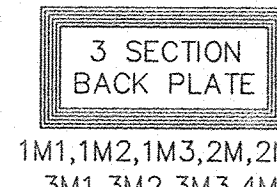
ALL SIGNS TO BE BUILT PER MUTCD STANDARDS

SYMBOL KEY

- MA1 SIGNAL & CABINET ID
- 9A NEW CONDUIT RUN ID
- S1 CONDUIT RUN ID (POWER SERVICE)
- C1 CONDUIT RUN ID (INTERCONNECT)



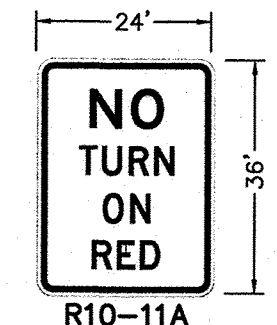
P2A, P2B, P4A, P4B
P6A, P6B, P8A, P8B
P9A, P9B



1M1, 1M2, 1M3, 2M, 2M2
3M1, 3M2, 3M3, 4M1



R10-5



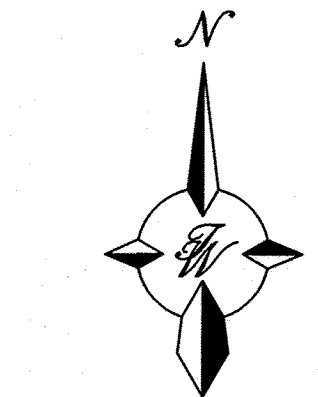
R10-11A

NOTES

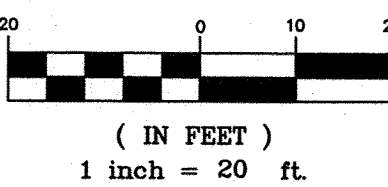
1. PULLBOXES 1-11 ARE TO BE LARGE PULL BOXES.
2. PULLBOXES 12-15 ARE TO BE SMALL PULL BOXES.
3. ALL INDICATORS ARE TO BE LED
4. OPTICOMS TO BE 3M 700 SERIES, 4 CHANNEL DISCRIMINATOR CARD.
5. ALL PEDESTRIAN SIGNALS TO BE COUNTDOWN
6. MASTARM FOUNDATION CONCRETE SHALL BE TESTED FOR SLUMP AND COMPRESSIVE STRENGTH
7. DISRUPTION OF POWER MUST BE COORDINATED WITH TRAFFIC OPERATIONS AND PNM. DOWNTIME SHALL BE MINIMIZED
8. NEW MA3 TO BE INSTALLED AND OPERATIONAL PRIOR TO OLD MA3 DISCONNECT
9. EXISTING TRAFFIC SIGNAL INFORMATION OBTAINED FROM RECORD DRAWINGS FOR COA PROJECT NO 6945.91
10. OLD MASTARM TO BE RETURNED TO PINO YARD

ABBREVIATIONS

- MA1 MASTARM NUMBER
- PP1 PEDESTAL POLE NUMBER
- PPB1 PEDESTRIAN PUSH BUTTON NUMBER
- CC1 CONTROL CABINET NUMBER
- PB1 PULL BOX NUMBER (SIGNALS)
- PBS1 PULL BOX NUMBER (POWER)
- PBC1 PULL BOX NUMBER (INTERCONNECT)
- DL1(1) DETECTOR LOOP PHASE # (LOOP #)
- SA1 SIGNAL HEAD NUMBER
- P1 PEDESTRIAN SIGNAL NUMBER
- BP BACK PLATE
- EC EXTENDED CALL LOOP DETECTOR
- SD SYSTEM LOOP DETECTOR
- MH1 TRAFFIC MANHOLE NUMBER
- M METER
- OPT OPTICOM
- ITS CAM COA ITS CAMERA



GRAPHIC SCALE



VIDEO CABLE

FROM	TO	CONDUIT TRACE	TOTAL LENGTH
MA3	CONTROLLER	27, 2	59'
			TOTAL 59'

OPTICOM SYSTEM CABLE

FROM	TO	CONDUIT TRACE	# PAIR x LENGTH	TOTAL LENGTH
MA1	CC1	MA1-34-16-18-20-22-24-26-2	1 @ 421'	421'
MA2	CC1	MA2-39-24-26-2	1 @ 220'	220'
MA3	CC1	MA3-27-2	1 @ 75'	75'
MA4	CC1	MA4-32-8-6-4-2	1 @ 242'	242'
			TOTAL	958'

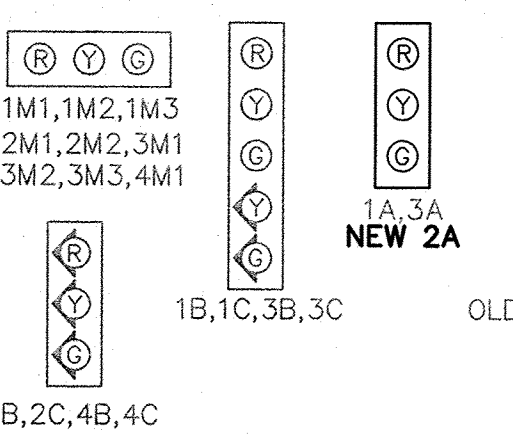
LOOP DETECTOR CABLE

FROM	TO	CONDUIT TRACE	NO. PAIR x LENGTH	TOTAL LENGTH
PB12	CC1	29-4-2	3 @ 94'	282'
PB13	CC1	31-6-4-2	2 @ 184'	368'
PB14	CC1	36-18-20-22-24-26-2	2 @ 355'	710'
PB15	CC1	38-20-22-24-26-2	2 @ 297'	594'
			TOTAL	1954'

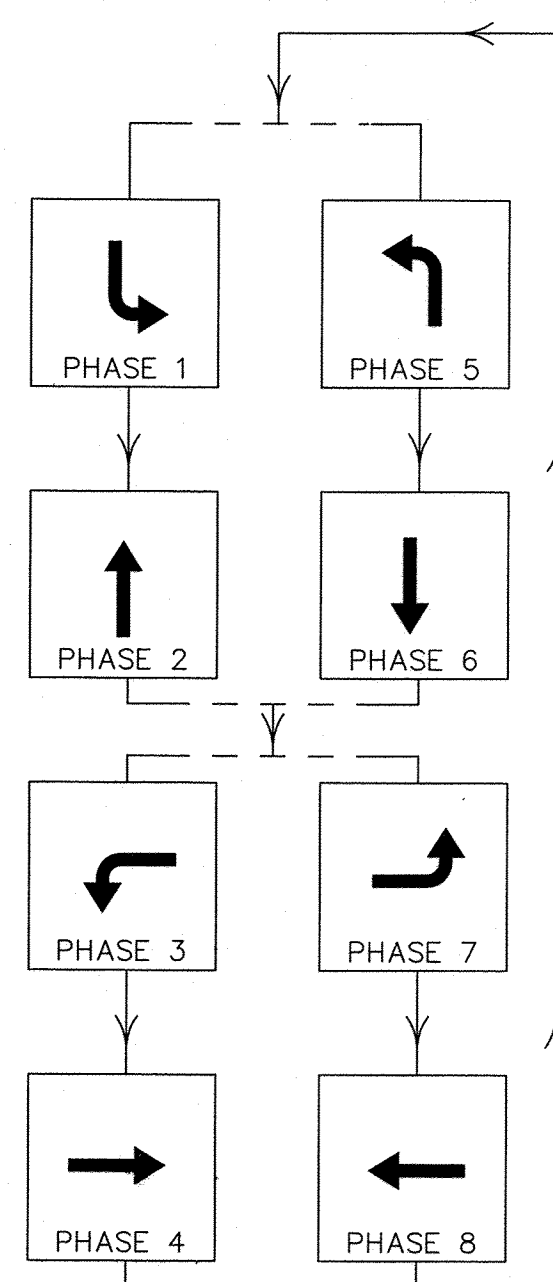
SIGNAL POLES AND MASTARMS

ID#	TYPE	STATION	OFFSET
MA1	MASTARM 40' TROMBONE	16+92	85' LT
MA2	MASTARM 30' TROMBONE	16+89	53' RT
MA3	MASTARM 40' TROMBONE	15+54	75' RT
MA4	MASTARM 40' TYPE III	15+65	46' RT
MA5	MASTARM 35' TROMBONE	15+51	69' LT
CC1	CONTROLLER	15+39	99' RT
PP1	NOT INSTALLED		
PP2	PED POLE	15+30	19' LT
PP3	PED POLE	16+39	83' LT
PP4	PED POLE	17+09	70' LT
PP5	PED POLE	17+16	5' RT
PP6	PED POLE	16+13	81' RT
PP7	PED POLE	16+10	113' RT
PP8	PED POLE	15+33	71' RT
M	METER PEDESTAL	25+77	79' RT

TYPICAL SIGNAL FACE LENS ARRANGEMENTS



SIGNAL PHASING

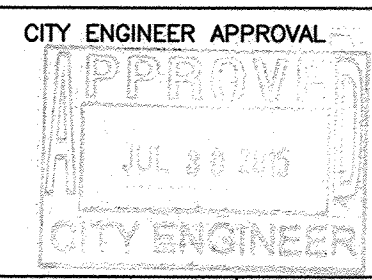


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PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

UNSER BLVD AND LADERA DR

SIGNALIZATION PLAN



CITY PROJECT NO. 529882

ZONE MAP NO. H-9-Z

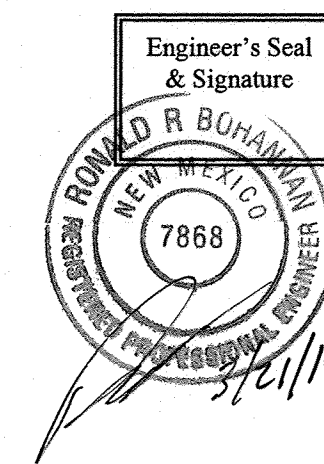
SHEET # 9 of 22

CONDUIT AND CONDUCTOR REQUIREMENTS														
CONDUIT LENGTH, SIZE, AND TYPE					CONDUIT FILL BY CONTRACTOR LENGTH AND TYPE									
RUN ID 	SIZE/LENGTH			TYPE	REMARKS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SHIELDED TWISTED PAIR	SCC #4 (# @ FT)	SCC #6 (# @ FT)	VIDEO (# @ FT)	OPTICOM (# @ FT)	DLLI CABLE (# @ FT)
	2"	3"	4"											
MA3					BASE TO 3M1	1 @ 60'								
MA3					BASE TO 3M2	1 @ 46'								
MA3					BASE TO 3M3	1 @ 27'								
MA3					BASE TO 3A	1 @ 13'								
MA3					BASE TO OPT SB								1 @ 40'	
MA3					BASE TO ITS CAM							1 @ 60'		
MA3					BASE TO 4C	1 @ 13'								
MA3					BASE TO P4A	1 @ 10'								
MA3					BASE TO PPB4B				1 @ 4'					
MA3					BASE TO P6B	1 @ 10'								
MA3					BASE TO PPB6B				1 @ 4'					
MA3					BASE TO P9A	1 @ 10'								
1		5		REC	CC1 TO MH1	1 @ 11'		2 @ 11'			2 @ 11'			
2		5		REC	CC1 TO MH1								4 @ 11'	11 @ 11'
3	18	33		REC	MH1 TO PB1	1 @ 23'		2 @ 23'			2 @ 23'		1 @ 23'	7 @ 23'
4	18	33		REC	MH1 TO PB1									
5	95	77		REC	PB1 TO PB2	1 @ 100'		2 @ 100'			2 @ 100'			
6	95	77		REC	PB1 TO PB2								1 @ 100'	2 @ 100'
27		53		REC	MH1 TO MA3	1 @ 58'		1 @ 58'			2 @ 58'	1 @ 58'	1 @ 58'	
29	22	38		REC	PB1 TO PB12									4 @ 27'
31		45		REC	PB2 TO PB13									2 @ 51'
41		9		REC	PB11 TO PP7	1 @ 14'								
42		6		REC	PB1 TO PP8			1 @ 11'						
PP7					BASE TO 3D	1 @ 13'								
PP8					BASE TO 3E	1 @ 13'								
PP8					BASE TO P9B	1 @ 10'								
TOTALS						431'		337'	8'		384'	118'	225'	692'

1. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE 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. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
3. THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND DRIVEWAYS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
4. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
5. NOT USED
6. SHOWN DISTANCES TO TRAFFIC SIGNAL POLES TO BE MEASURED FROM FACE OF CURB, UNLESS OTHERWISE NOTED.
7. ALL WIRE ON THIS PROJECT SHALL BE COPPER
8. ALL SPLICES FOR TRAFFIC SIGNAL MULTI-CONDUCTOR CABLE SHALL BE MADE ABOVE GROUND (IN CABINET OR STANDARD BASE). NO SPLICING OF MCC WILL BE PERMITTED IN PULL BOXES.
9. SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINET OR CONTROL CABINETS WITH SPLICE BLOCKS. SPLICING OF VIDEO DETECTION COAXIAL CABLE WILL NOT BE PERMITTED BETWEEN THE MASTARM BASE AND THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE OPTICAL DETECTOR TO THE CONTROLLER CABINET.
10. SIGNAL HEADS SHALL BE COVERED WHEN NECESSARY WITH PACIFIC ENTERPRISES SIGNAL COVERS OR APPROVED EQUAL.
11. NOT USED
12. THE CONTRACTOR IS HEREBY ADVISED THAT THE INTERSECTION SIGNALS SHALL NOT BE TURNED ON UNTIL THE SIGNAL IS COMPLETELY INSTALLED. INCLUDING FULLY ACTUATED OPERATION (ALL LOOPS AND PUSHBUTTON WIRING SHALL BE OPERATIONAL).
13. FLASHING OPERATION IS NOT CONSIDERED THE BEGINNING OF THE FIELD TESTING PERIOD.
14. ACCEPTABLE TYPE II AND TYPE III STANDARDS ARE VALMONT, UNION METAL, JEM, OR APPROVED EQUAL.

- ### CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPS number 15702.



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



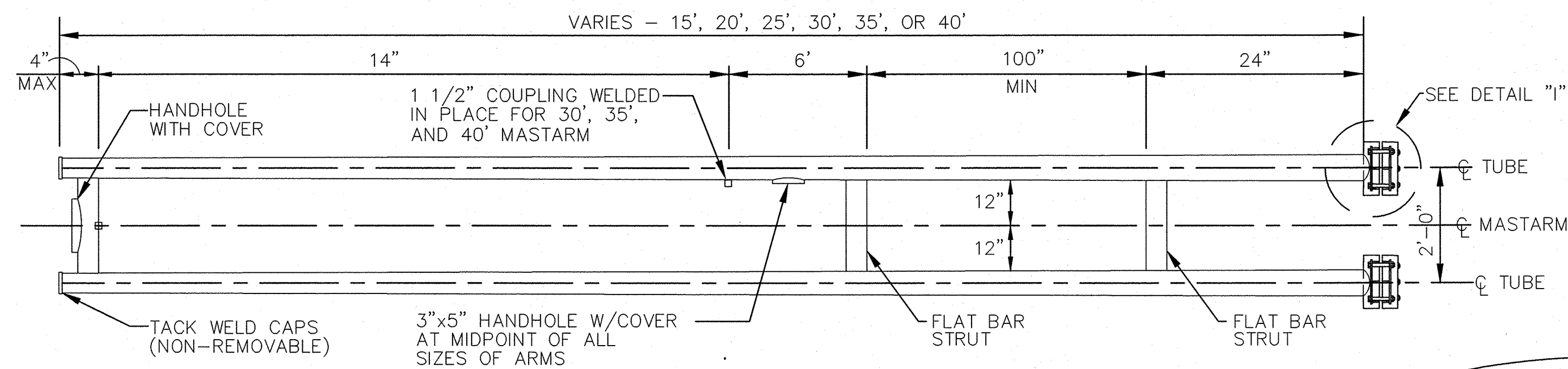
RECORD DRAWING

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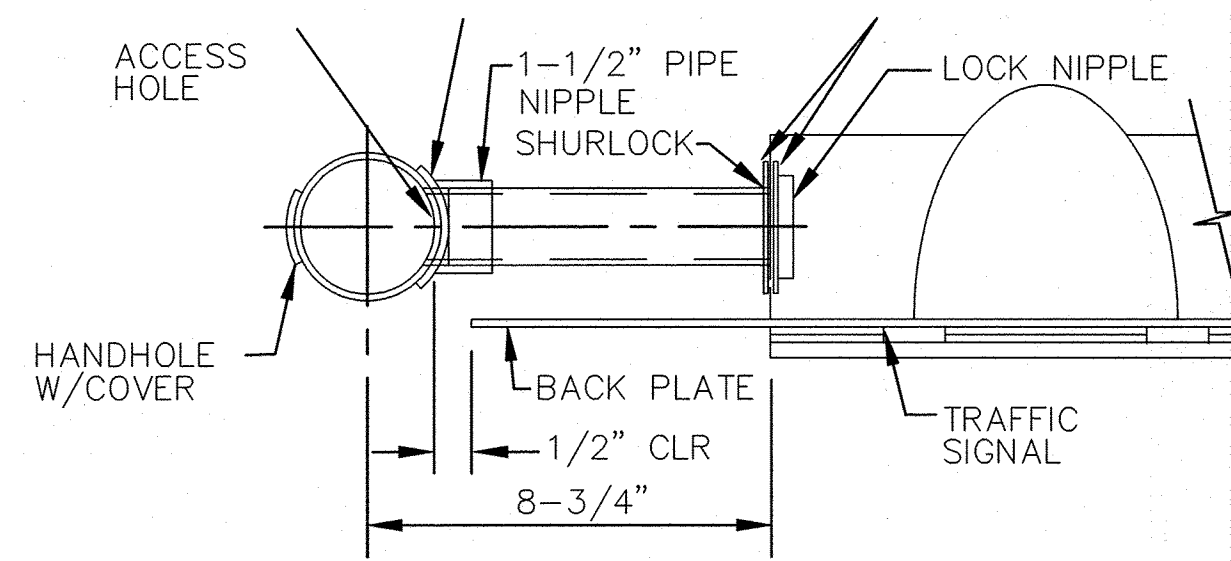
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

UNSER BLVD AND LADERA DR
CABLES AND CONDUITS, SIGNAL NOTES

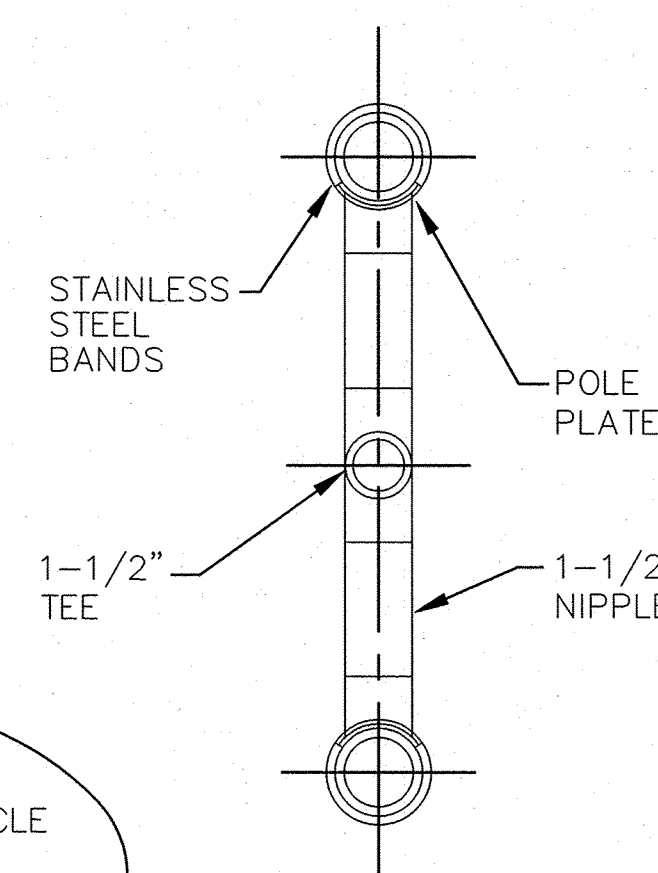
DESIGN REVIEW COMMITTEE 		CITY ENGINEER APPROVAL 		DESIGN UPDATE LAST	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 529882		ZONE MAP NO. H-9-Z		SHEET # 10 of 22		



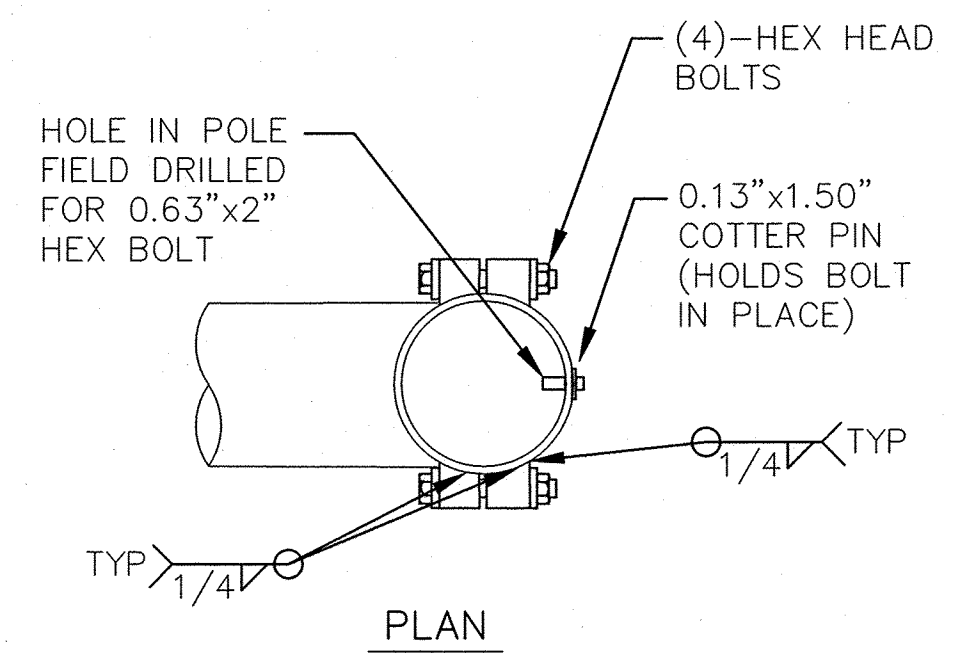
TYPICAL MASTARM DETAIL



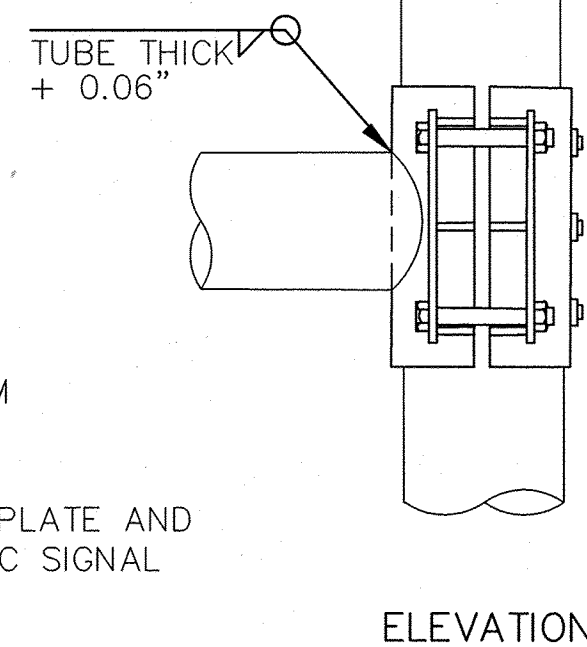
SECTION C-C



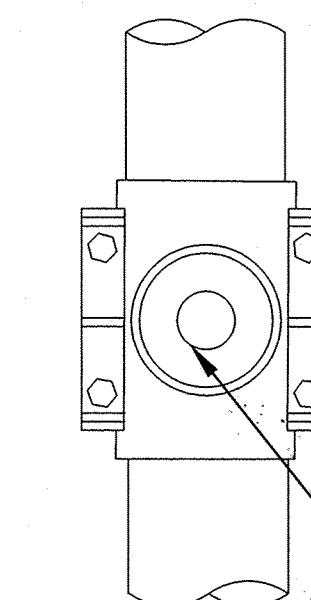
SECTION D-D



PLAN



ELEVATION



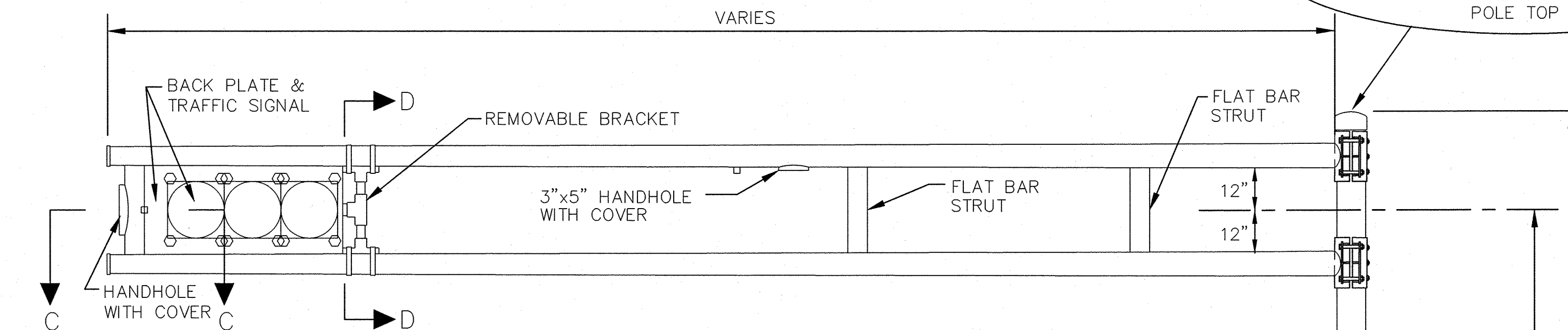
SECTION

DETAIL I

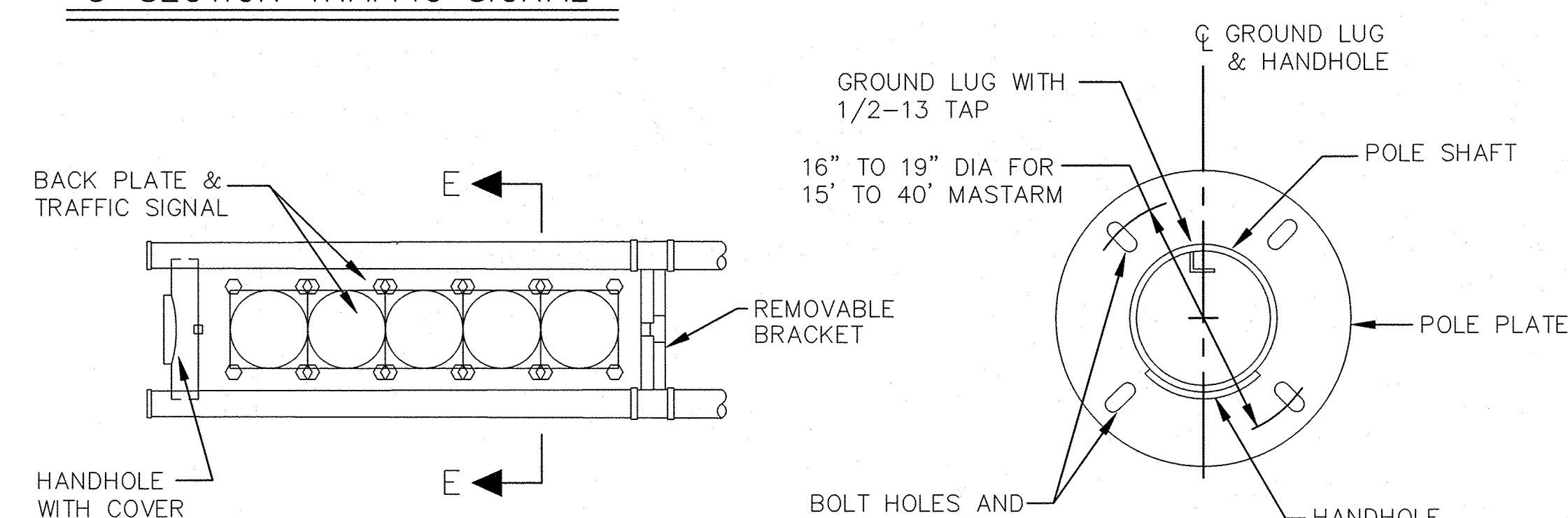
NOTE:
ONE SIZE ARM CLAMP FOR
15' TO 25' MASTARMS AND
ONE SIZE FOR 30' TO 40'
MASTARMS WILL BE ALLOWED

FINISH:

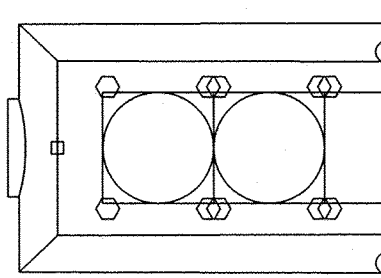
☒ GALVANIZED
☐ POWDER COATED
COLOR RECORD



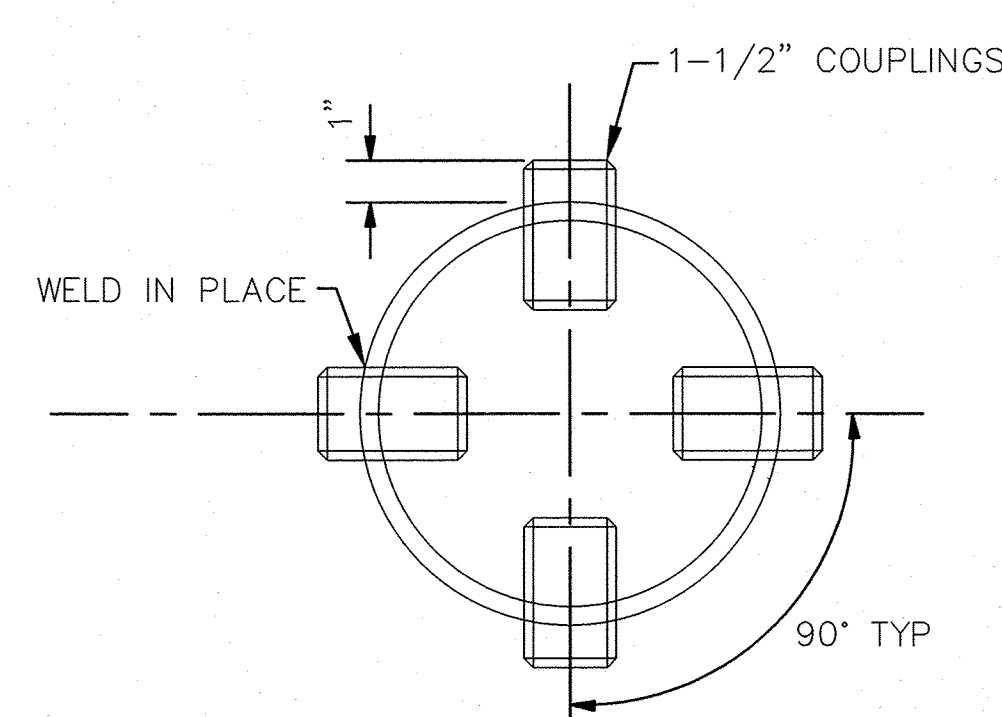
3-SECTION TRAFFIC SIGNAL



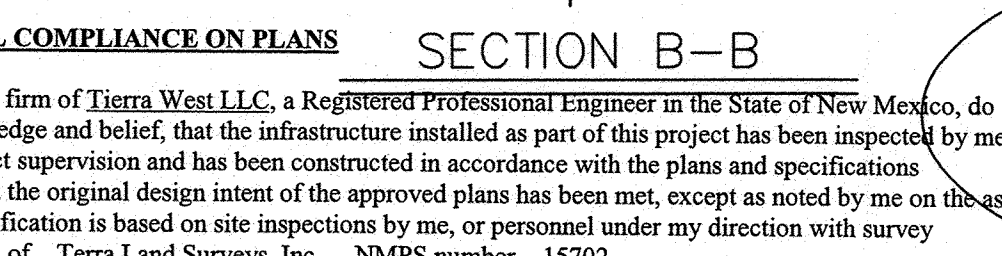
5-SECTION TRAFFIC SIGNAL



MITERED ARM END (OPTIONAL)

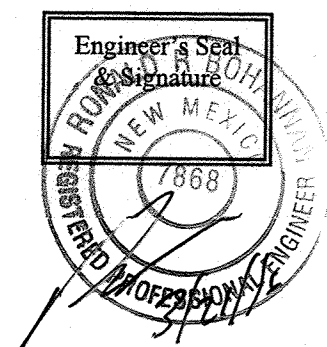


SECTION A-A

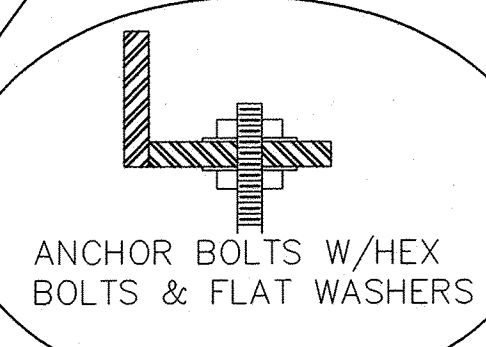


SECTION B-B

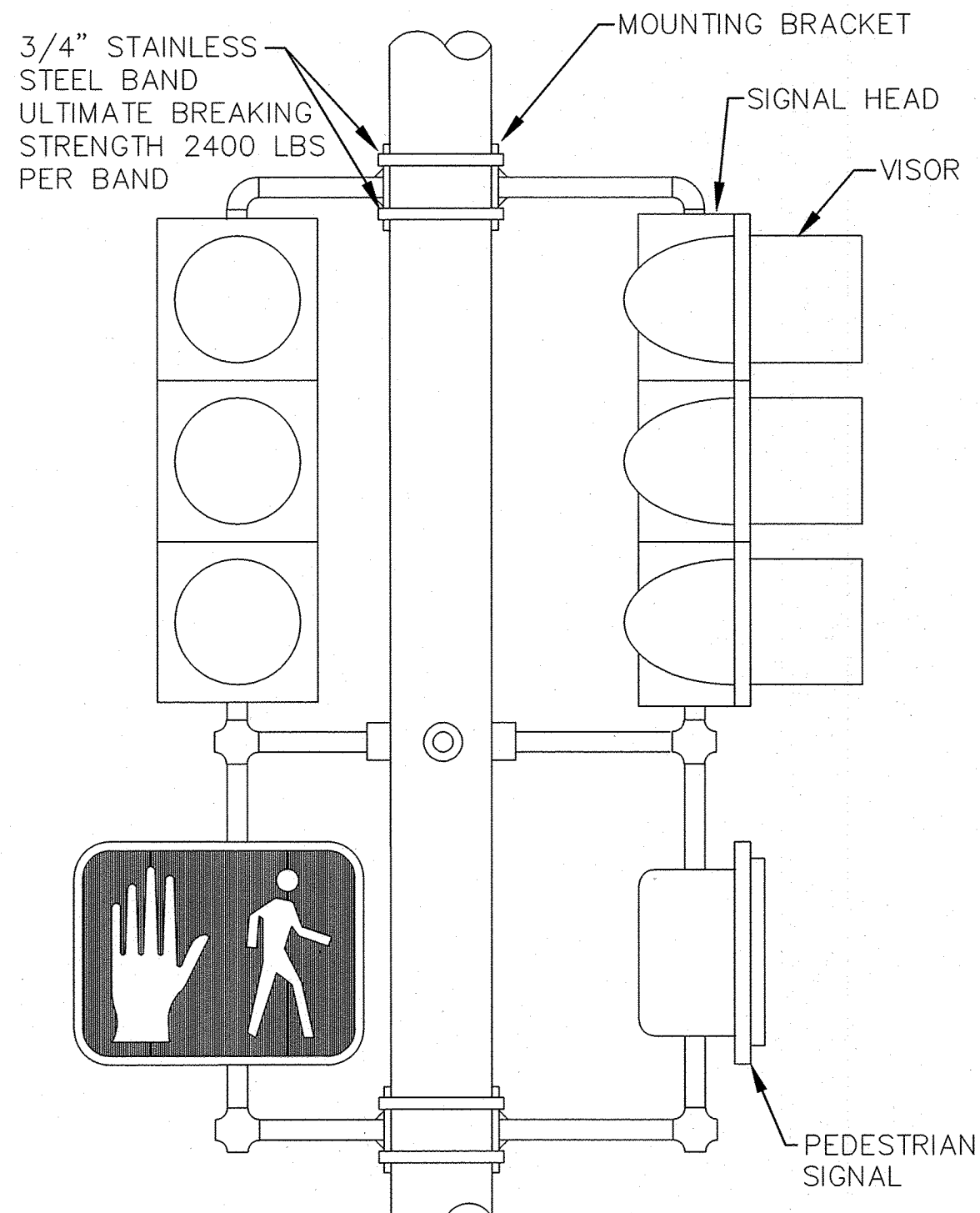
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPS number 15702.



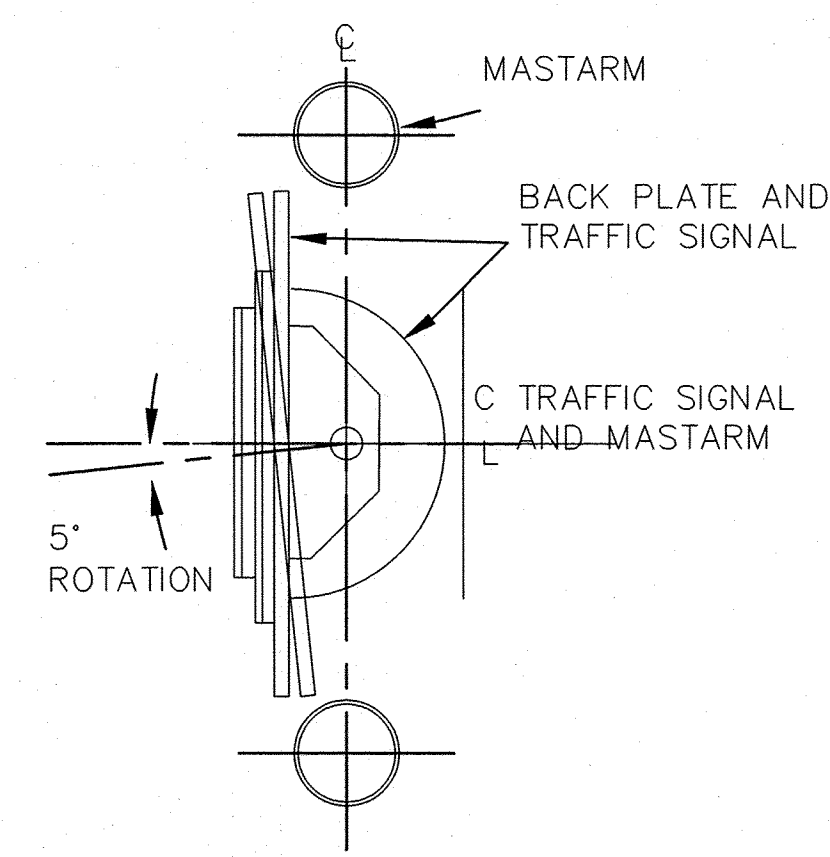
ANCHOR BOLTS
15', 20', 25' ARM: 1-1/2"x54"x6"
30', 35', 40' ARM: 1-1/2"x54"x6"



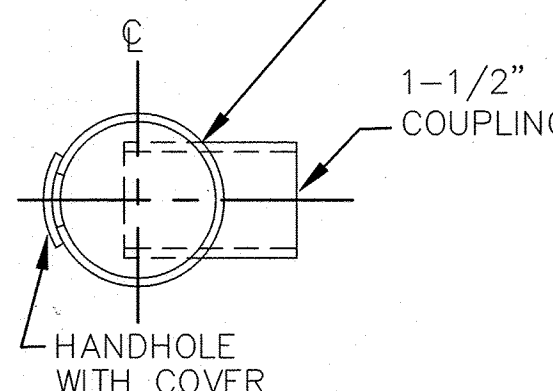
**RECORD
DRAWING**



SECTION F-F



SECTION E-E



SECTION G-G

TRAFFIC SIGNAL MASTARM NOTES:

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

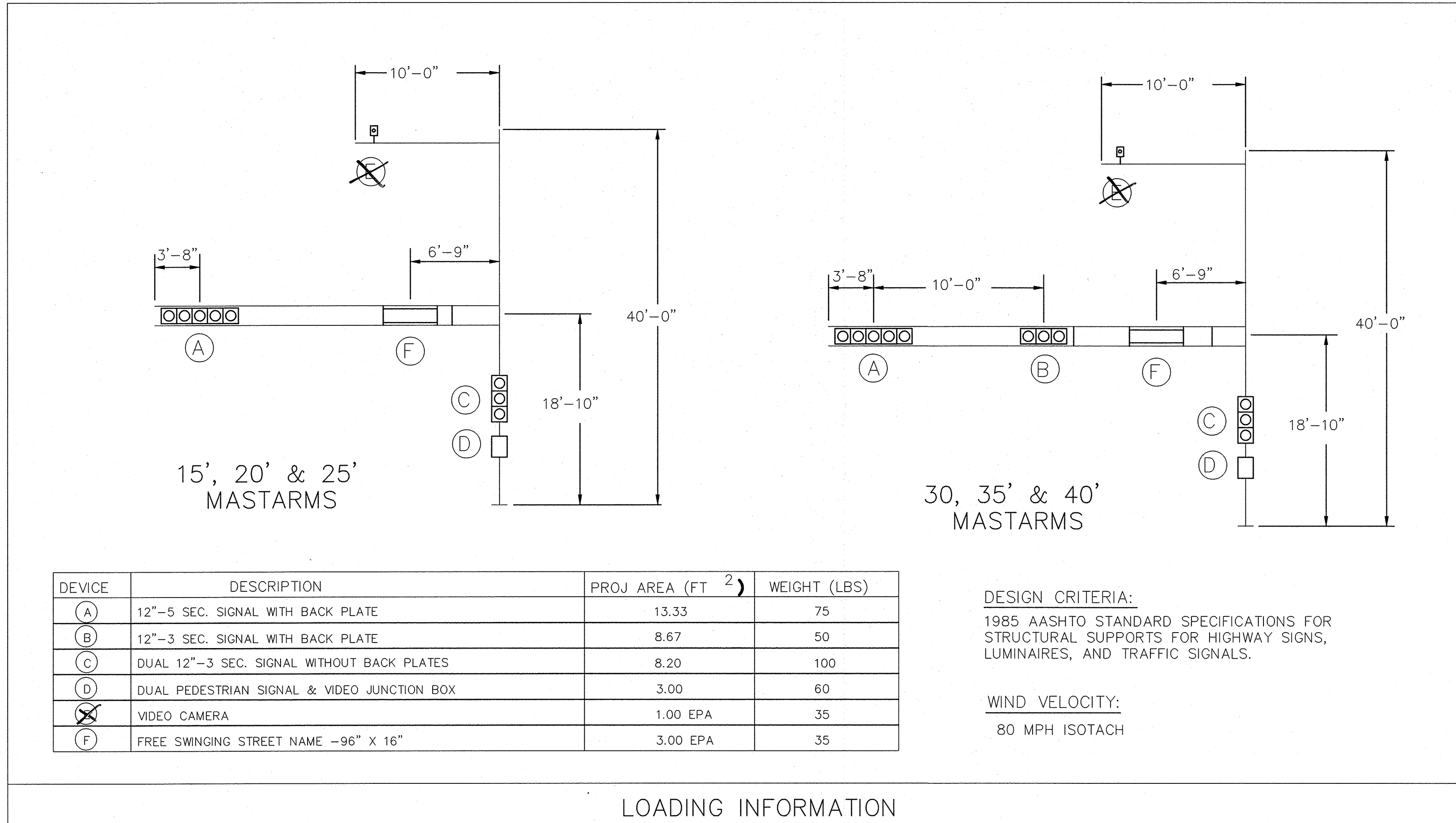
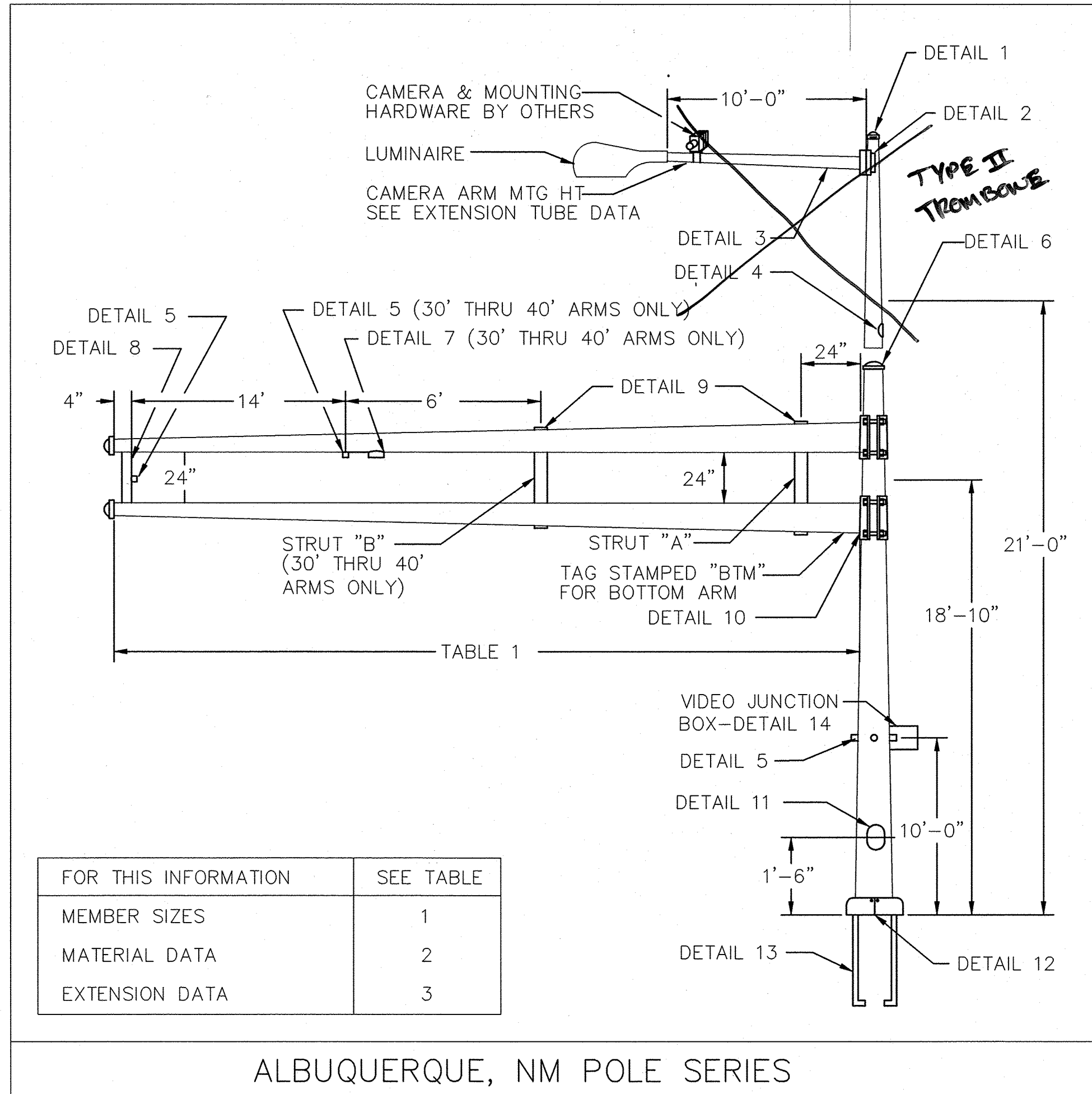
**RECORD
DRAWING**

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ALBUQUERQUE, NEW MEXICO 87109
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www.tierrawestllc.com

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**UNSER BLVD AND LADERA DR
MASTARM DETAILS, TYPE III STANDARD - A**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE	APPROVED JUL 30 2015 CITY ENGINEER		
CITY PROJECT NO. 529882	ZONE MAP NO. H-9-Z	SHEET # 11 of 22	



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

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

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

FINISH:

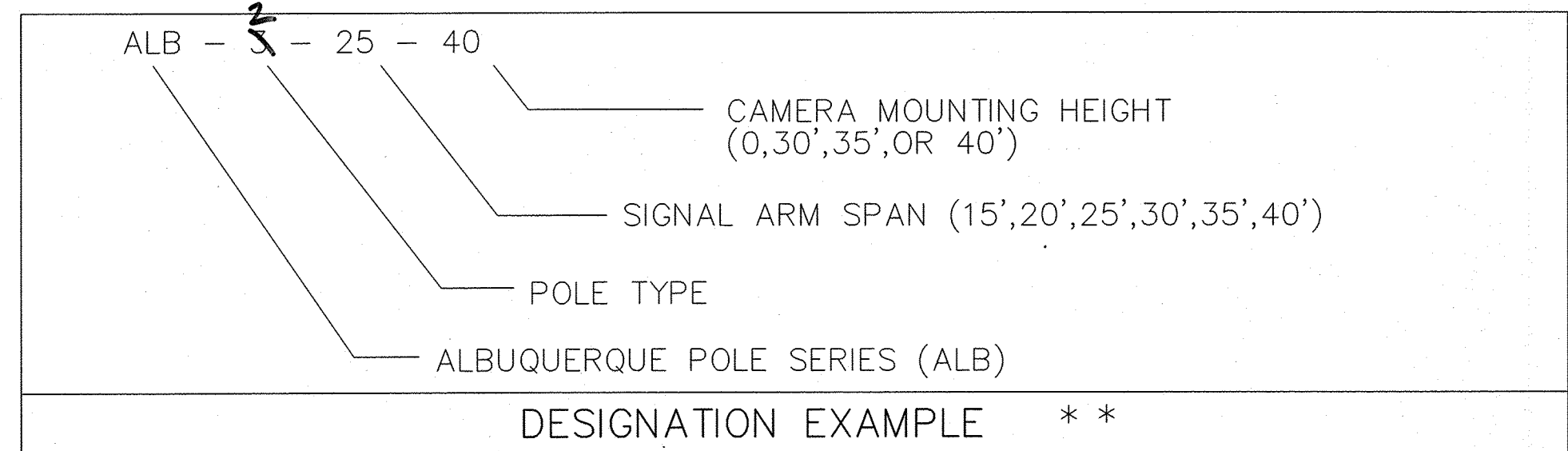
☒ GALVANIZED

☐ POWDER COATED
COLOR _____

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPS number 15702.

Engineer's Seal & Signature
RONALD R. BOHANNON
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
7869
3/21/16



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

RECORD DRAWING

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrowestllc.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

UNSER BLVD AND LADERA DR
MASTARM DETAILS - TYPE # STANDARD - B

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE	APPROVED APR 30 2015 CITY ENGINEER		
CITY PROJECT NO. 529882	ZONE MAP NO. H-9-Z	SHEET # 12 of 22	

DESIGNED BY JN
DRAWN BY pm
DRAWING NAME 2014038-Signal.dwg
CHECKED BY RRB

DATE Feb, 2015
DATE Feb, 2015
JOB NO 2014038
DATE Feb, 2015



I, Ronald R. Bohannon, of the firm of Terra Land Surveys, LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPS number 15702.



STREET NAME SIGN DETAILS

SECTION "A-A"

RECORD
DRAWING

FINISH:

☒ GAI VANIZED☐ POWDER COATED

COLOR _____

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

UNSER BLVD AND LADERA DR
MISCELLANEOUS DETAILS A - TYPE III STANDARD

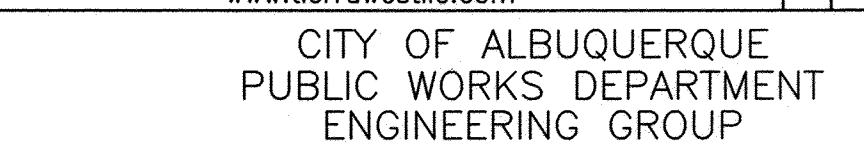
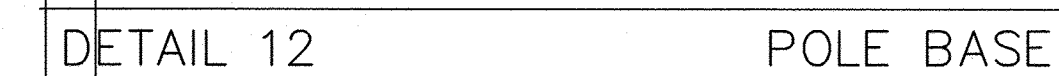
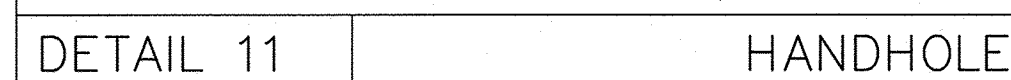
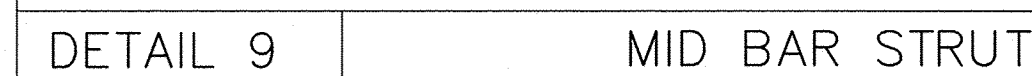
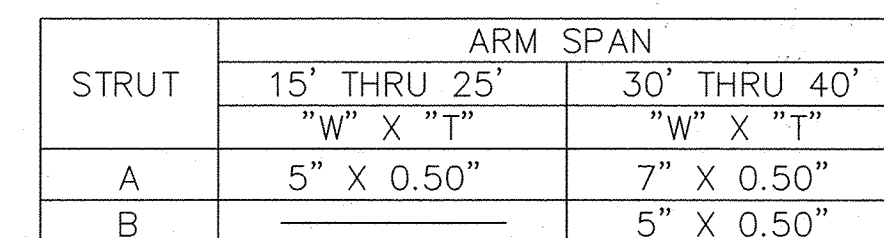
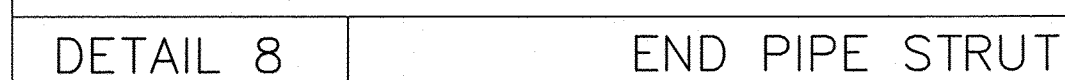
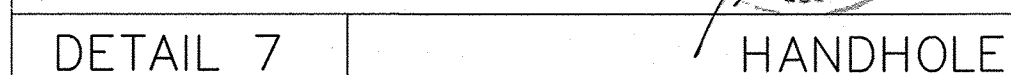
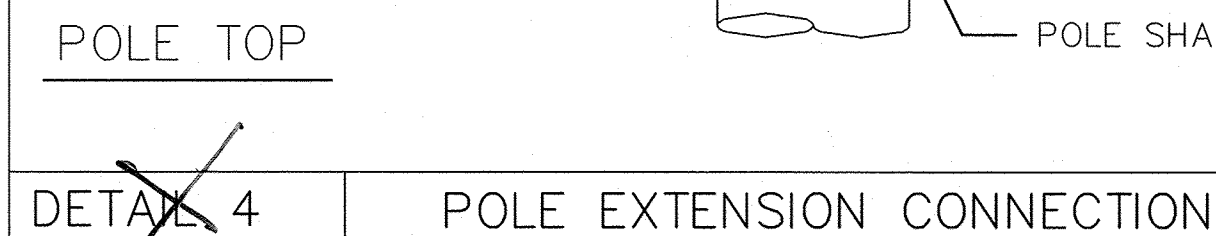
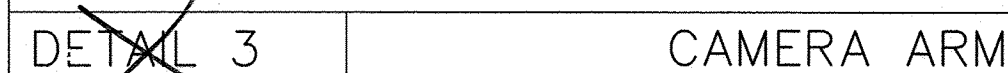
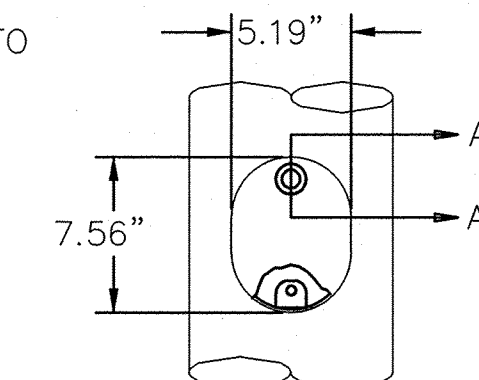
DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE		APPROVED JUL 30 2015 CITY ENGINEER				
CITY PROJECT NO. 5296882		ZONE MAP NO. H-9-Z		SHEET # 13 of 22		

SURVEY INFORMATION		BENCH MARKS	AS BUILT INFORMATION	
NO.	FIELD NOTES		CONTRACTOR	DATE
	BY		WORK STAKED BY <u>R. S. C. CONSTRUCTION</u>	
			DATE <u>2015</u>	
			ACCEPTANCE BY <u>CONFIRMA</u>	
			DATE <u>2015</u>	
			FIELD CATION BY <u>CONFIRMA</u>	
			DATE <u>2015</u>	
			DRAWINGS CORRECTED BY <u>THILL</u>	
			DATE <u>2016</u>	
			<u>MICRO-FILM INFORMATION</u>	
			RECORDED BY	DATE
			NO.	

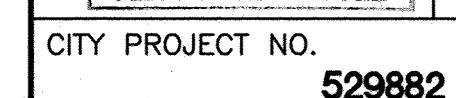
ENGINEER'S SEAL



DESIGN				REVISIONS	
NO.	DATE	REMARKS	BY		
DESIGNED BY	JN		DATE	Feb, 2015	
DRAWN BY	pm		DATE	Feb, 2015	
DRAWING NAME	2014036-Signal.dwg				JOB NO. 2014038
CHECKED BY	RRB		DATE	Feb, 2015	

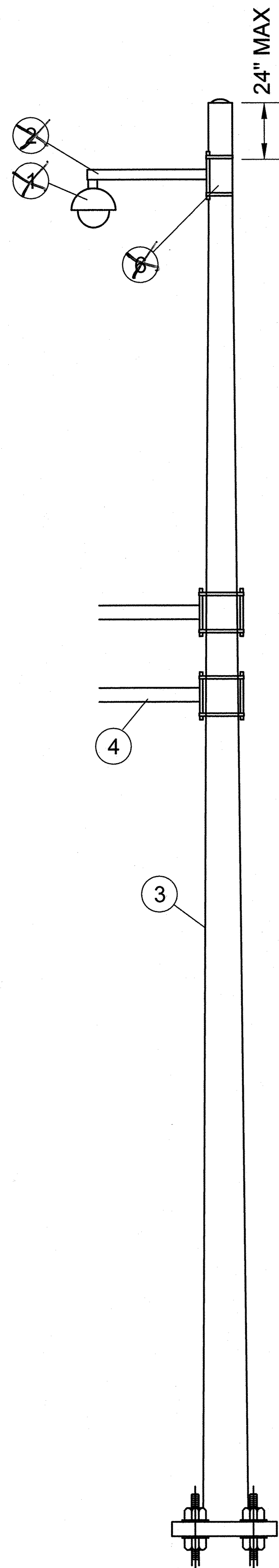


UNSER BLVD AND LADERA DR
MISCELLANEOUS DETAILS B - TYPE III STANDARD



LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
P NO. -7	SHEET # 14 of 22	

RECORD DRAWING



CAMERA POLE DETAIL

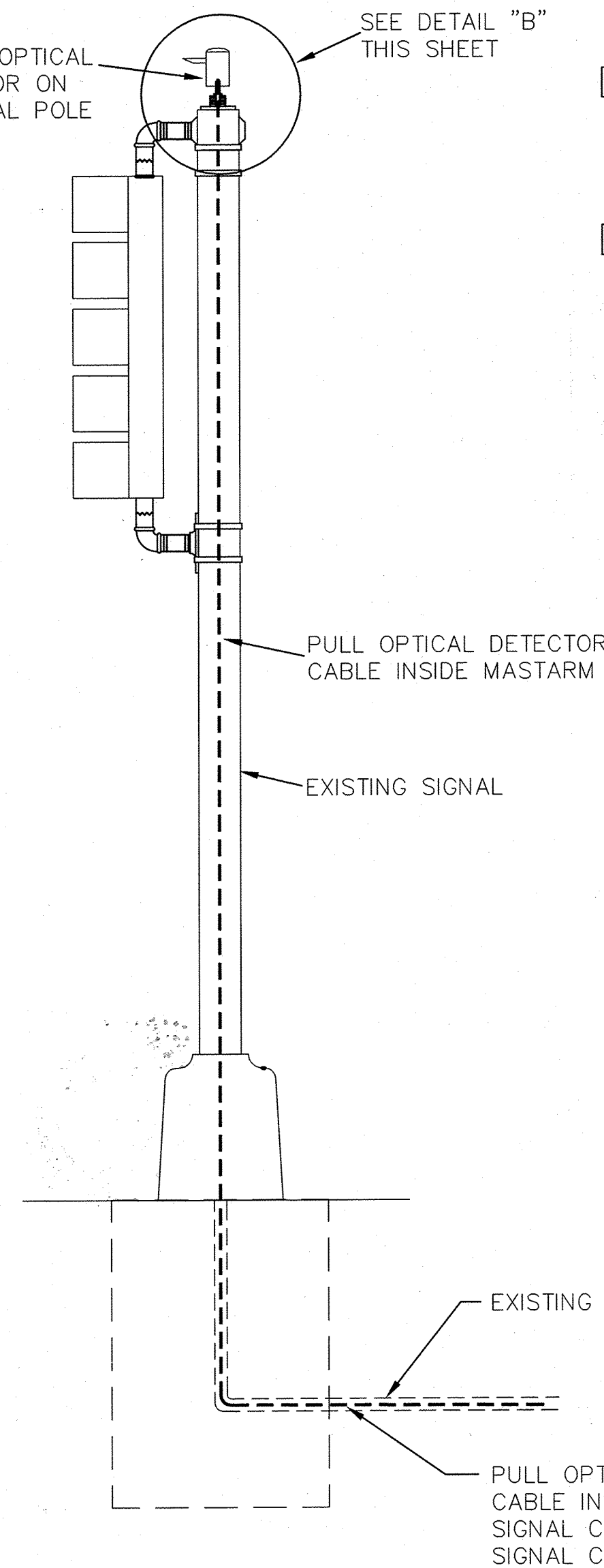
CCTV INSTALLATION NOTES:

1. CCTV MOUNTING ASSEMBLY SHALL BE SECURED WITH A MINIMUM OF 2 STAINLESS STEEL BANDING STRAPS. THE MOUNTING ASSEMBLY OR ARM SHALL BE POINTED TOWARD CENTER OF INTERSECTION.
2. CCTV MOUNTING ON MAST ARM SHALL INCLUDE A 1 1/2" NPT FITTING Banded TO THE END OF THE MAST ARM.
3. THE CABLING SHALL BE CONTAINED INSIDE OF THE POLE. A HOLE SHALL BE DRILLED IN THE POLE FOR CABLING TO EXIT THE POLE AND FEED THROUGH THE MOUNTING ASSEMBLY. THE HOLE SHALL BE SEALED TO PREVENT ANY WATER FROM ENTERING THE POLE. CABLING WITHIN THE POLE SHALL HAVE A MEANS OF CABLE SUPPORT AT THE TOP TO PREVENT THE CABLE TENSION FROM PULLING ON THE EQUIPMENT.
4. ALL WORK TO BE PERFORMED IN THE CABINET SHALL BE COORDINATED AND SUPERVISED BY THE CITY.
5. CCTV CAMERA SHALL BE MOUNTED WITHIN ONE DEGREE OF LEVEL ON BOTH HORIZONTAL AXIS.
6. ALL CABLING SHALL RUN UNSPLICED FROM THE CCTV CAMERA TO THE CONTROL CABINET.

- DOME CCTV UNIT
- MOUNTING ASSEMBLY
- EX. TRAFFIC SIGNAL POLE
- EX. TRAFFIC SIGNAL MAST ARM
- DELETED
- CABLE STRAIN RELIEF (NOT SHOWN)
- ITS POLE (SEE DETAIL SHEET D-5 ITS-40)
- BREAK AWAY COUPLING

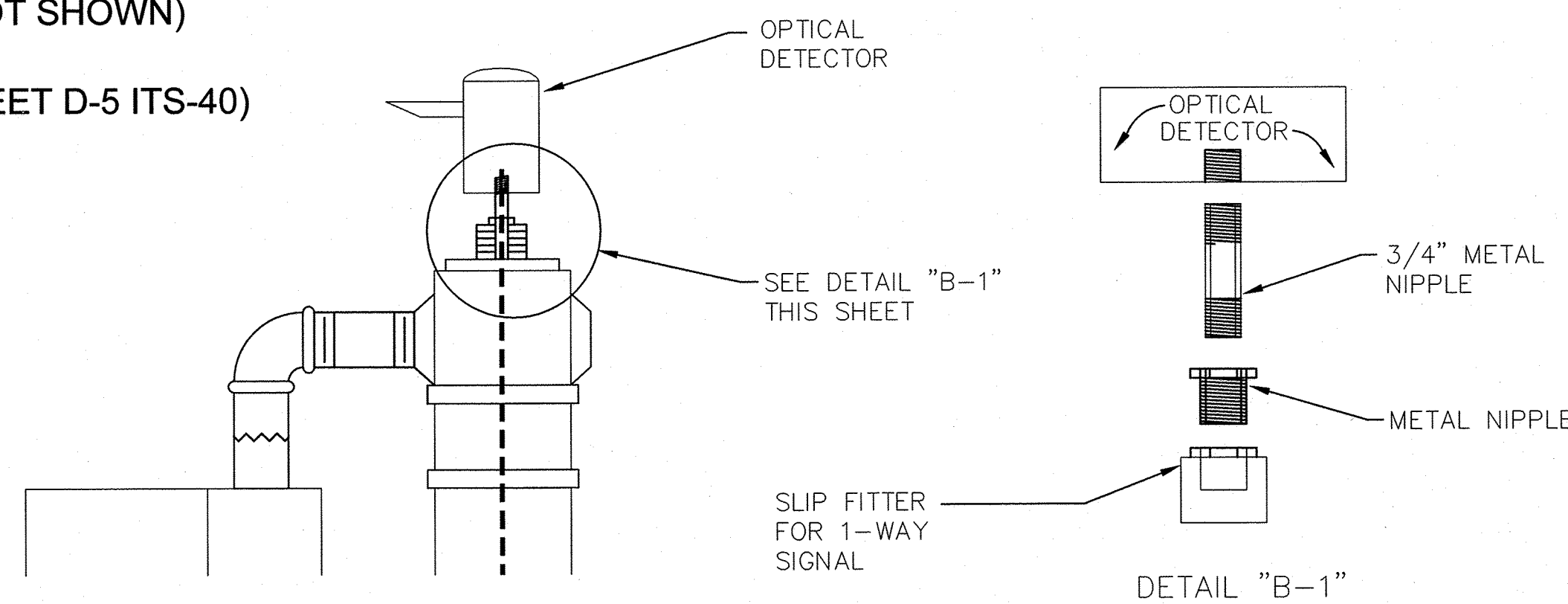
MOUNT OPTICAL DETECTOR ON PEDESTAL POLE

SEE DETAIL "B" THIS SHEET

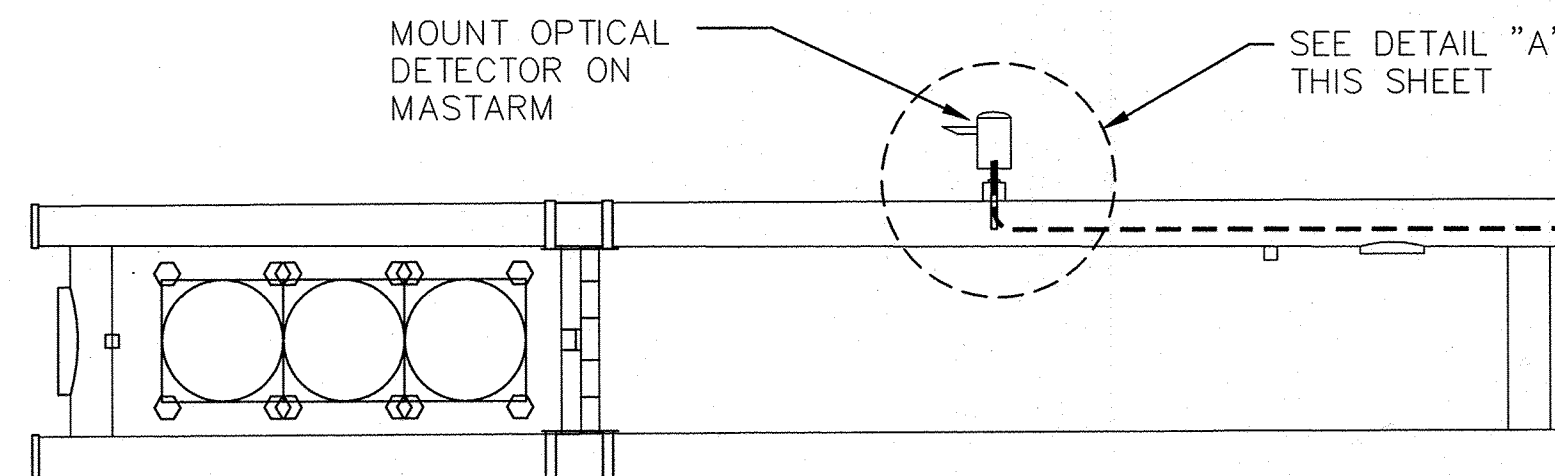


TYPICAL OPTICAL DETECTOR INSTALLATION
PEDESTAL POLE

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

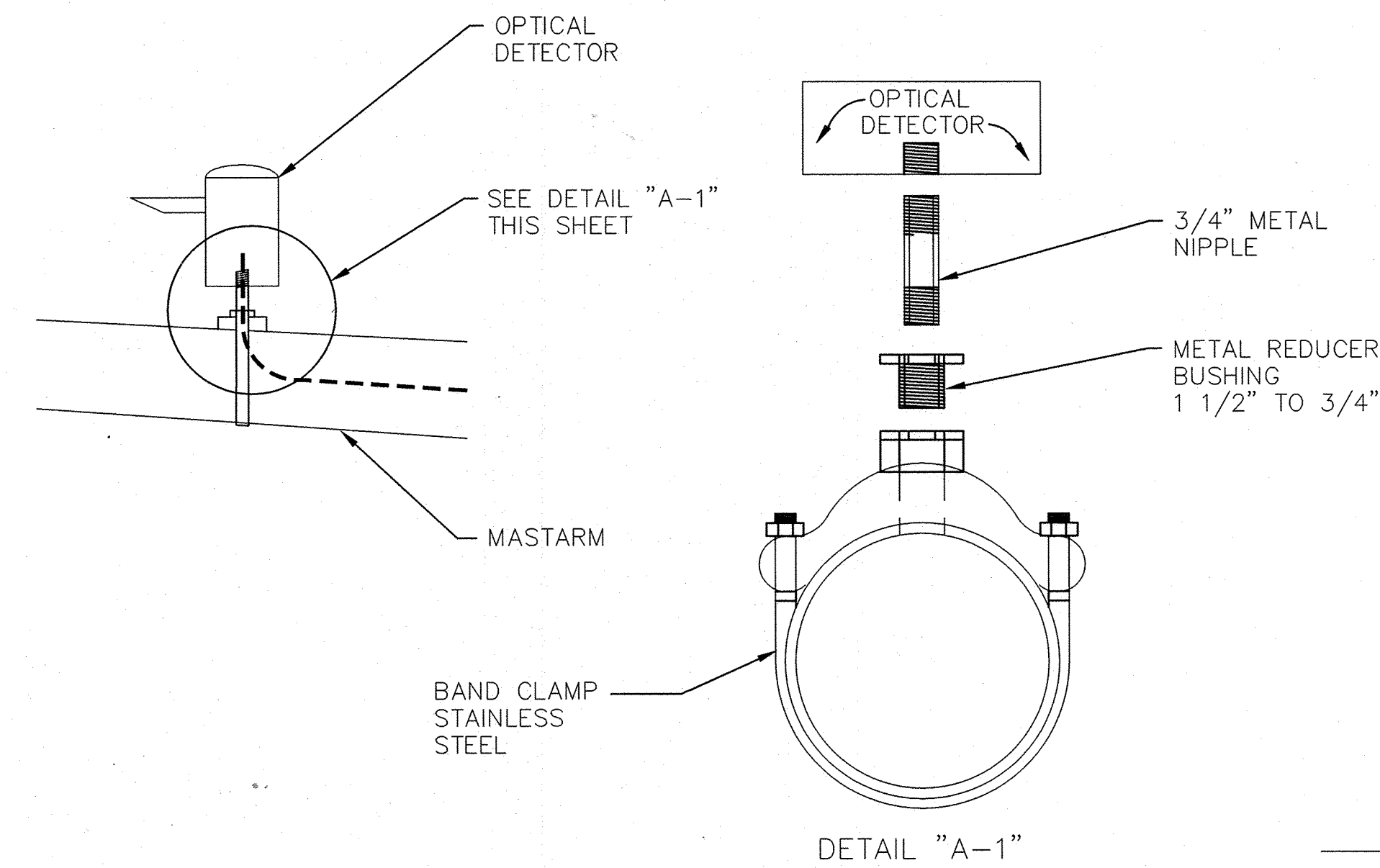
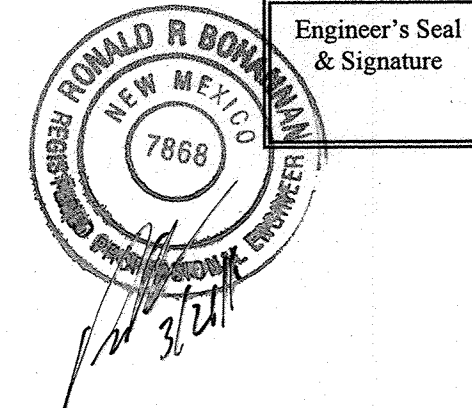


OPTICAL DETECTOR
MOUNTING - DETAIL "B"



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

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OPTICAL DETECTOR
MOUNTING - DETAIL "A"

TYPICAL OPTICAL DETECTOR INSTALLATION - MASTARM

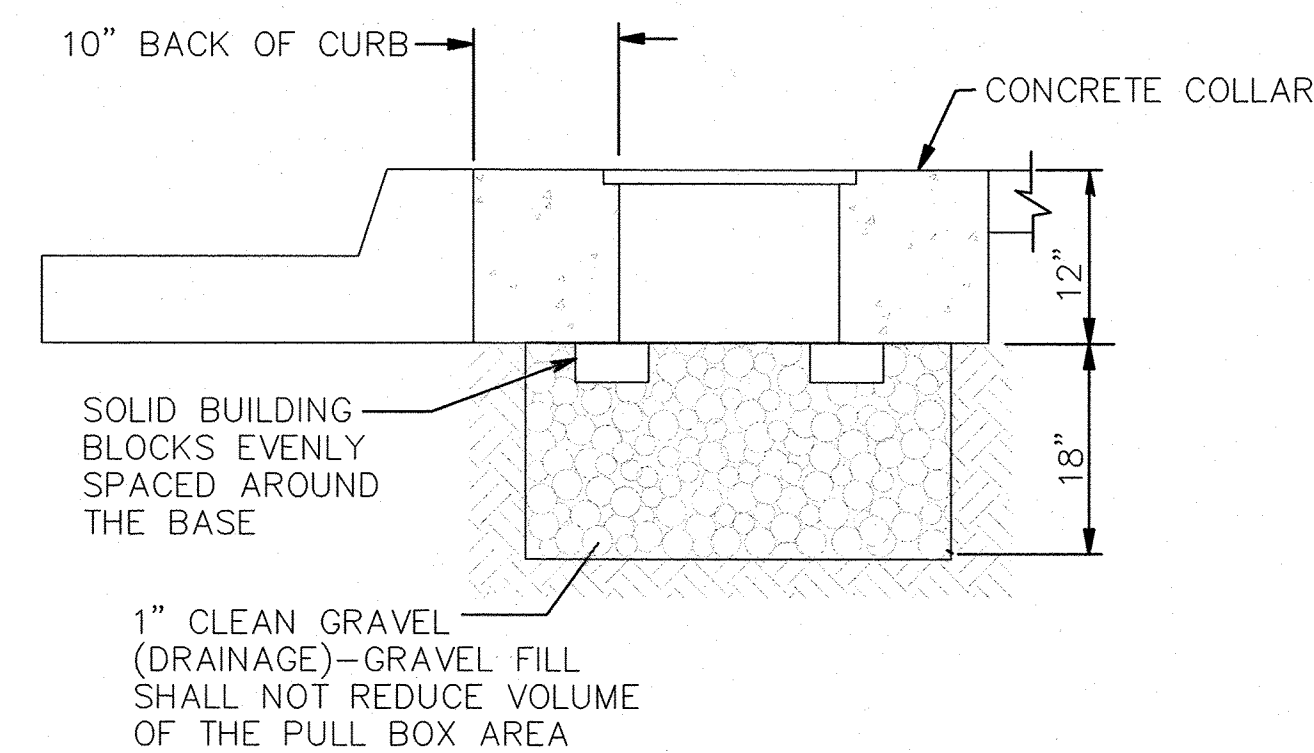
NOTES:

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

**RECORD
DRAWING**

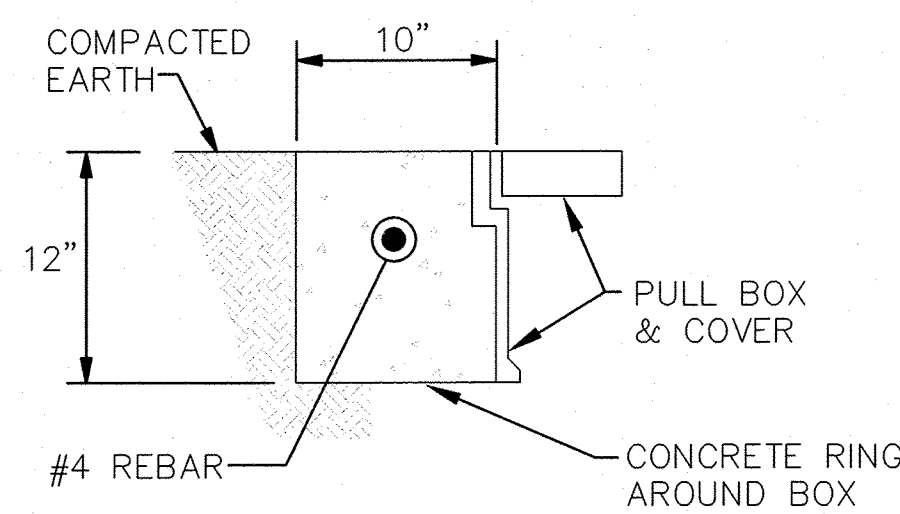
TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
UNSER BLVD AND LADERA DR OPTICAL DETECTOR INSTALLATION DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	MO./DAY/YR.
APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE	APPROVED APR 27 2015 CITY ENGINEER		
CITY PROJECT NO.	ZONE MAP NO.	SHEET #	
529882	H-9-Z	15 of 22	

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
WORK	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
AS BUILT	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
FIELD	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
DRAWINGS	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
CORRECTED BY	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
MICRO-FILM	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.
RECORDED BY	DATE	BY	NO.	CONTRACTOR	DATE	BY	NO.	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.

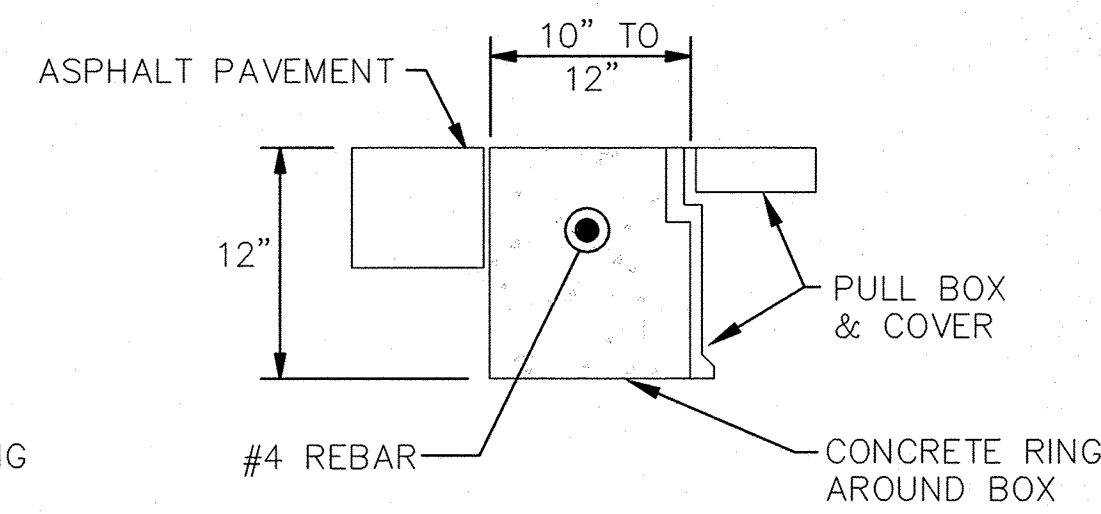


TYPICAL PULL BOX INSTALLATION

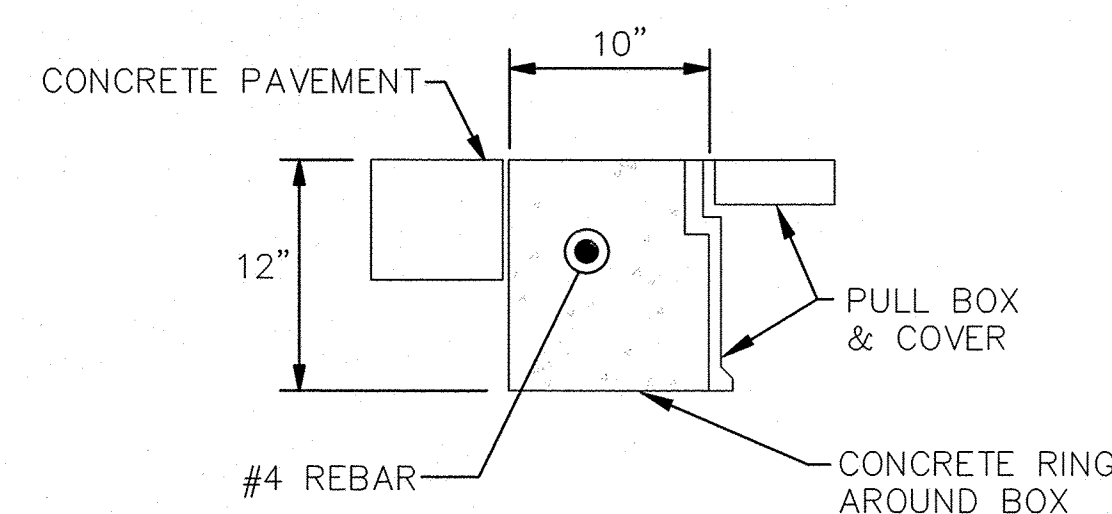
NOTE: SEE "CONCRETE COLLAR DETAIL"



IN COMPACTED EARTH



IN ASPHALT PAVEMENTS



IN CONCRETE PAVEMENTS

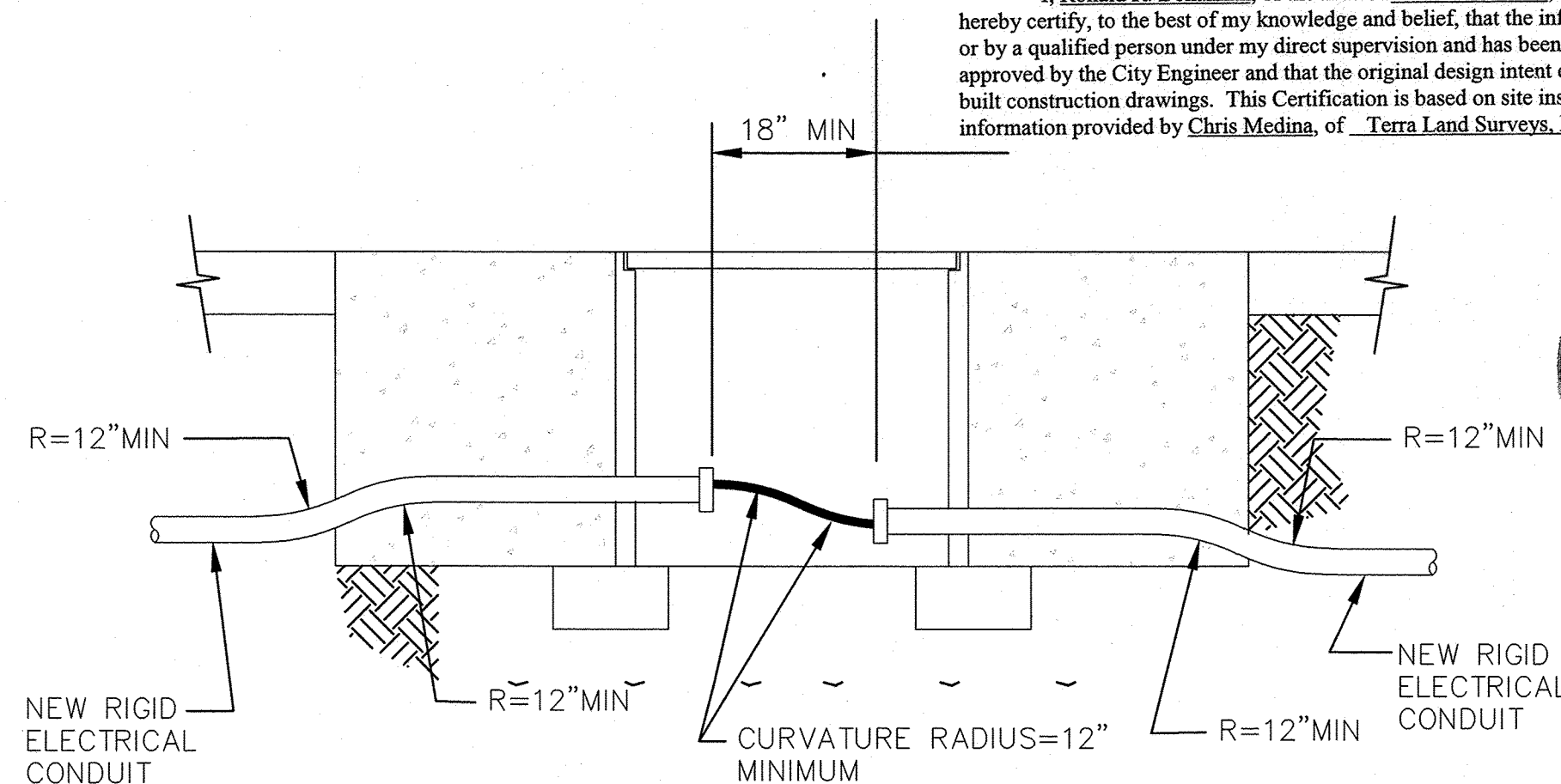
CONCRETE COLLAR DETAILS

NOTE: THE CONCRETE COLLAR SHALL BE PER SEC 101, EXTERIOR CONCRETE $f'_c=3500$ PSI AT 28 DAYS
THE CONCRETE COLLAR SHALL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEMS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

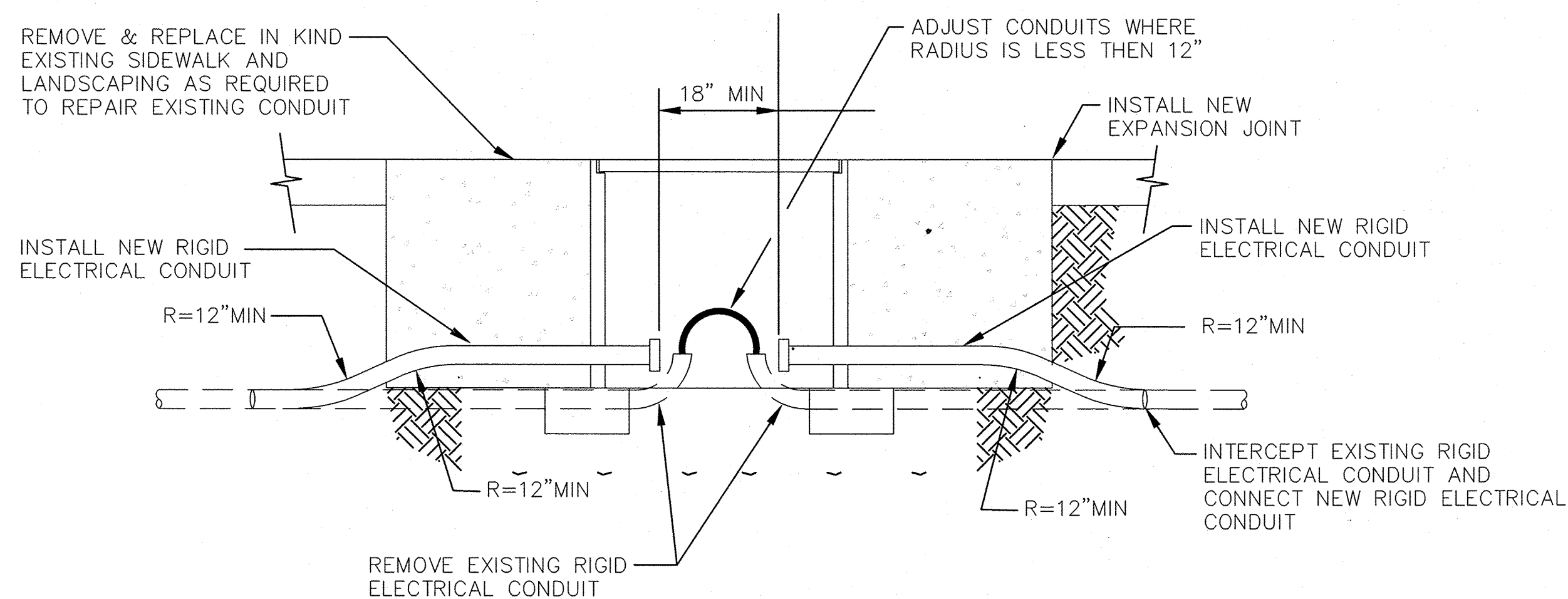
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Engineer's Seal & Signature



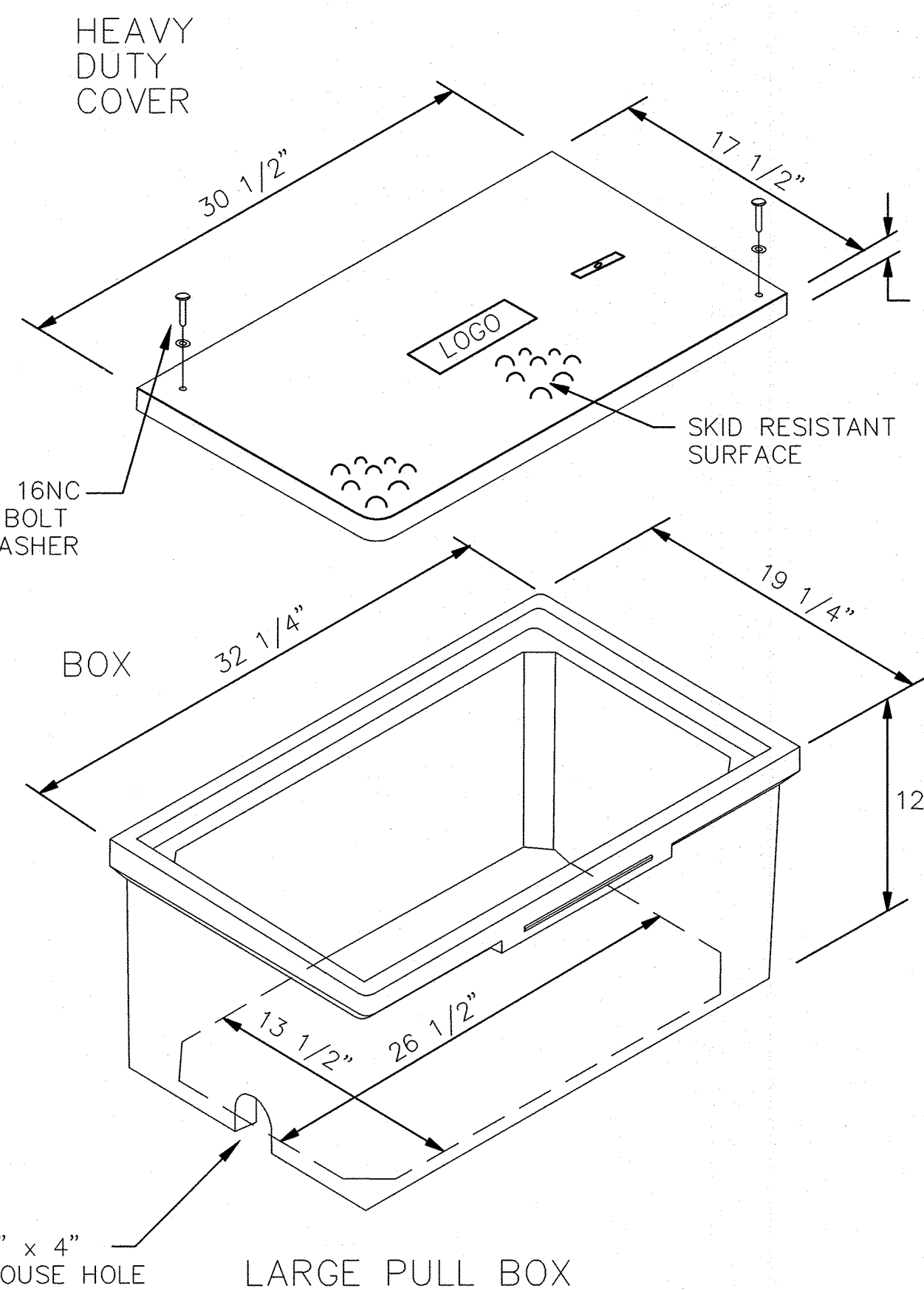
TRAFFIC SIGNAL PULL BOX (TYPICAL)

NEW CONDUIT INSTALLATION

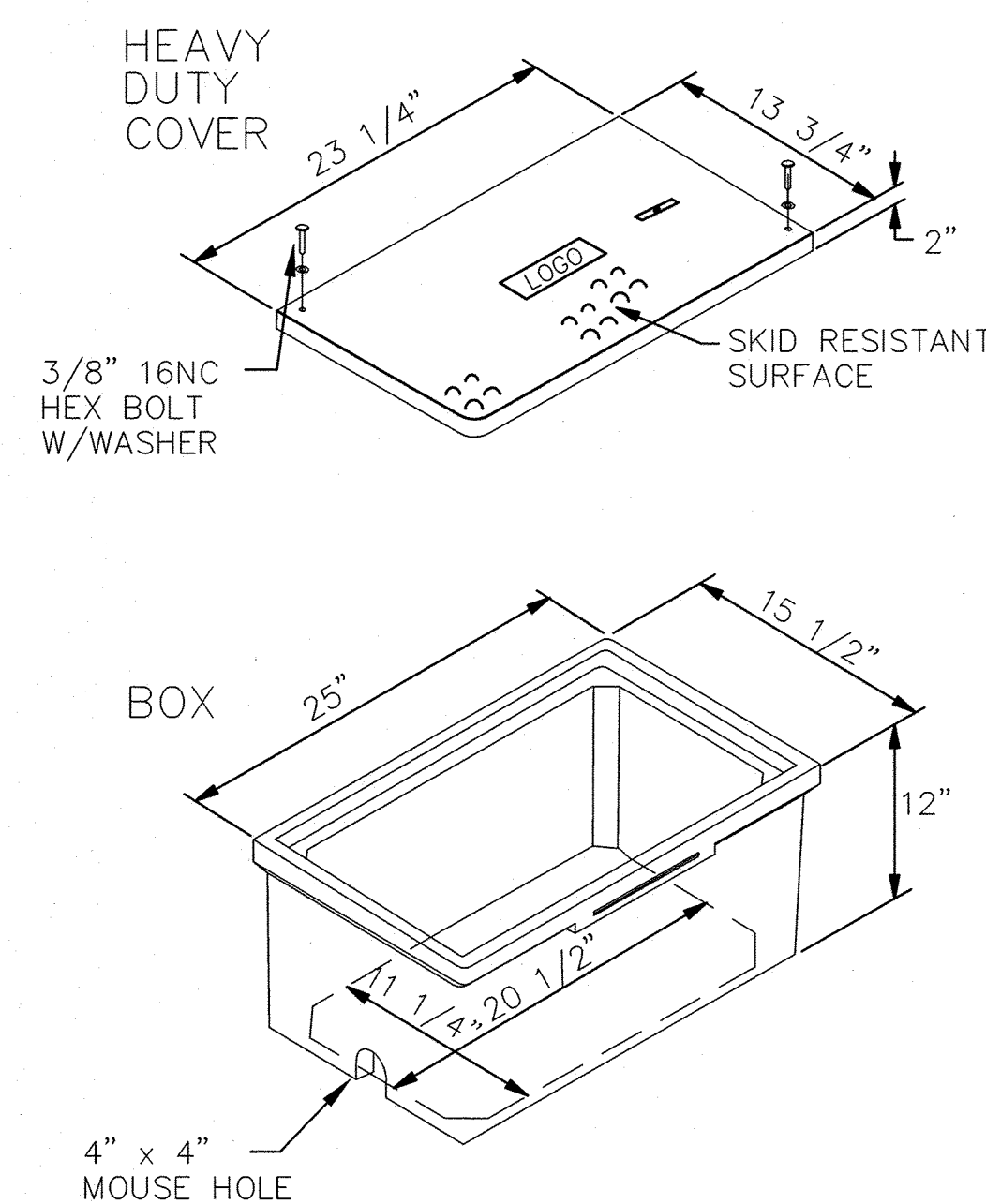


TRAFFIC SIGNAL PULL BOX (TYPICAL)

RETROFIT INSTALLATION



LARGE PULL BOX



STANDARD PULL BOX

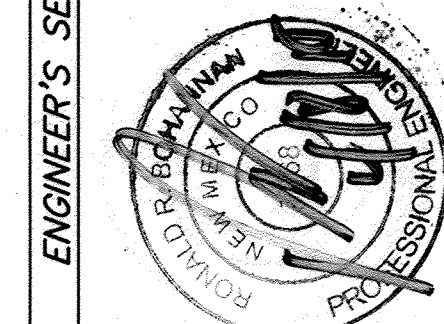
RECORD
DRAWING

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

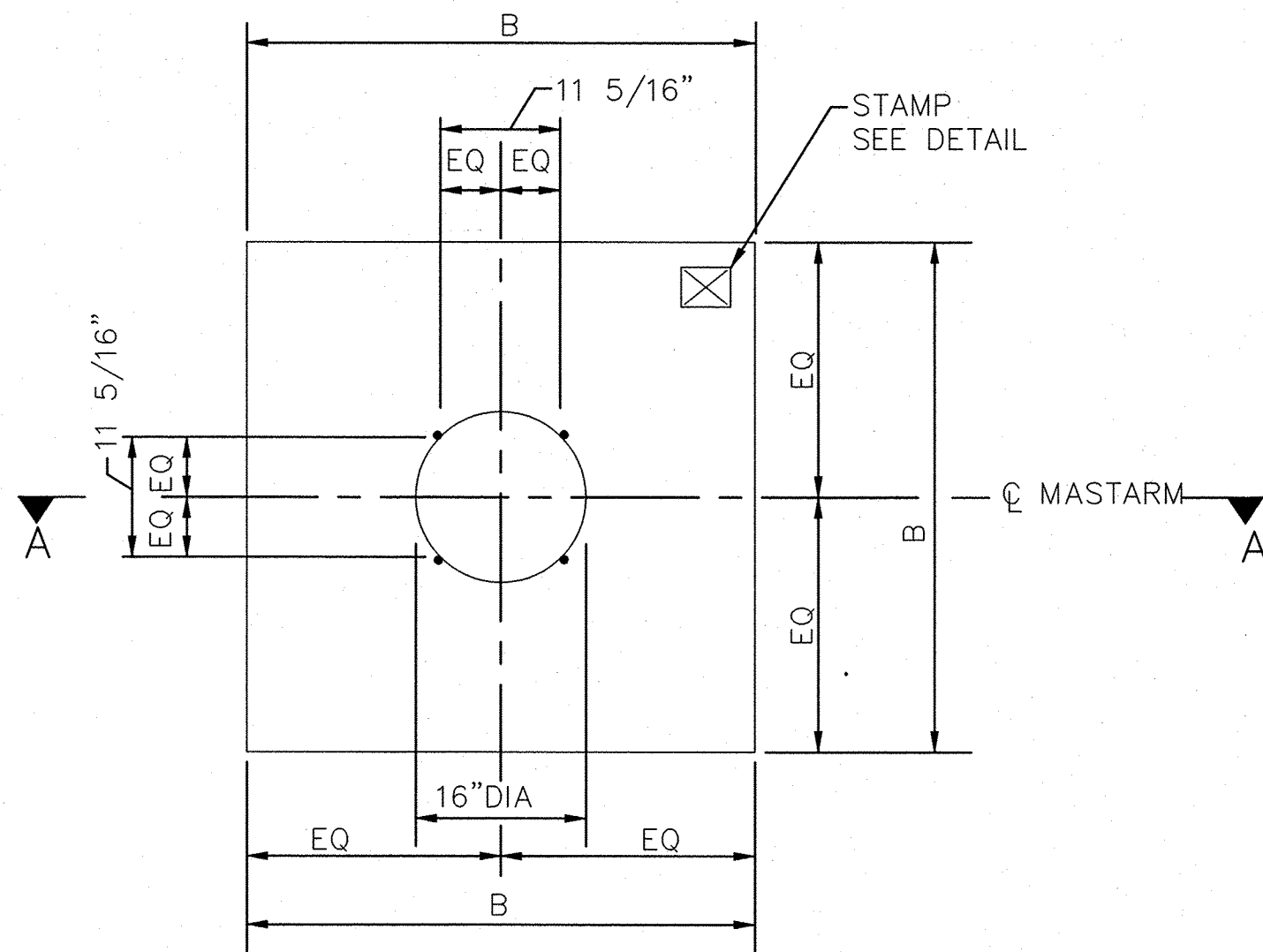
1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1,700 PSI, FLEXURAL STRENGTH - 7,500 PSI.
2.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

RECORD
DRAWING

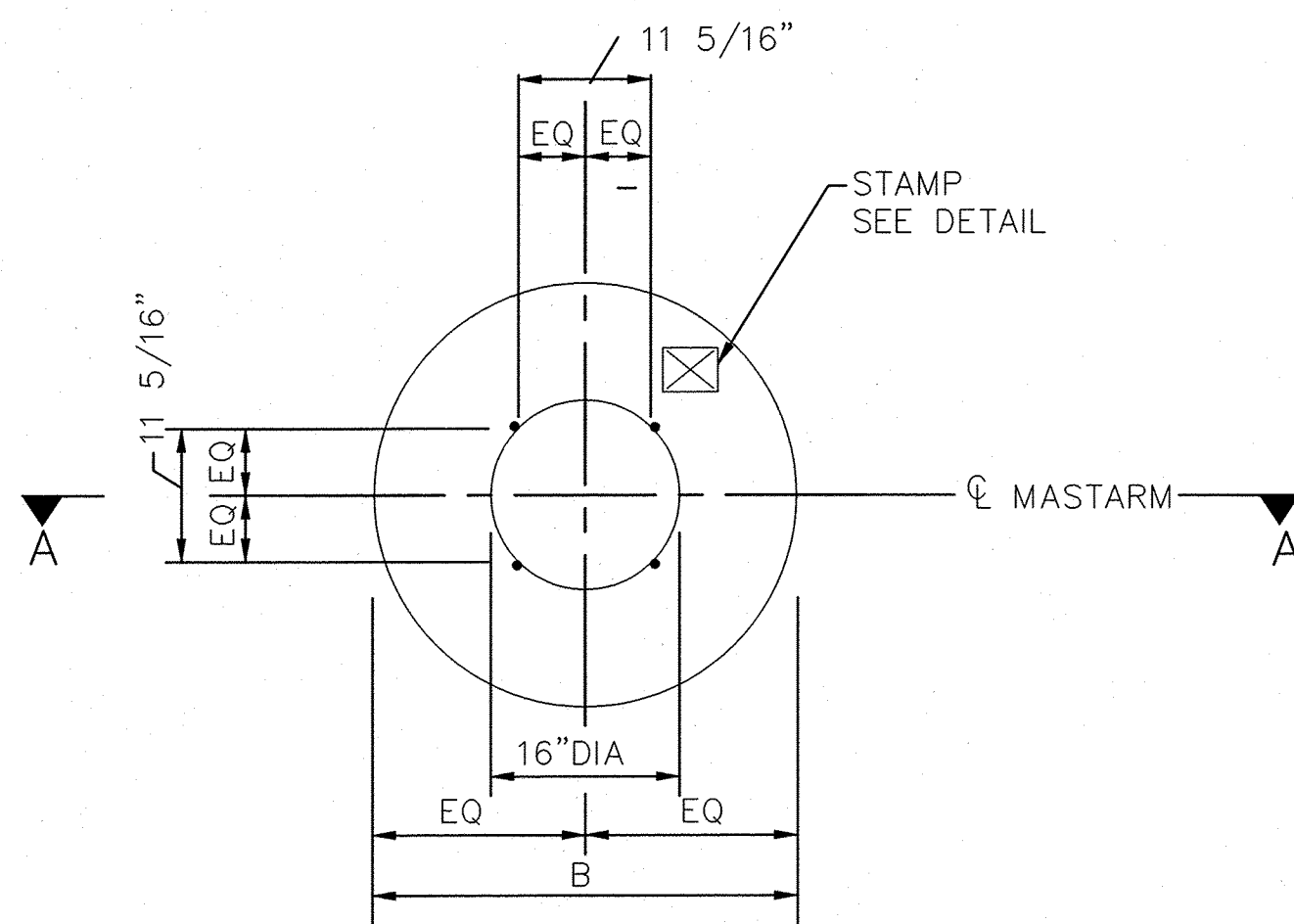
TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrowestllc.com		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
UNSER BLVD AND LADERA DR PULL BOX DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE APR 27 2015 DESIGN REVIEW COMMITTEE	APPROVE JUL 3 2015 CITY ENGINEER		
CITY PROJECT NO.	ZONE MAP NO.	SHEET #	
529882	H-9-Z	16 of 22	



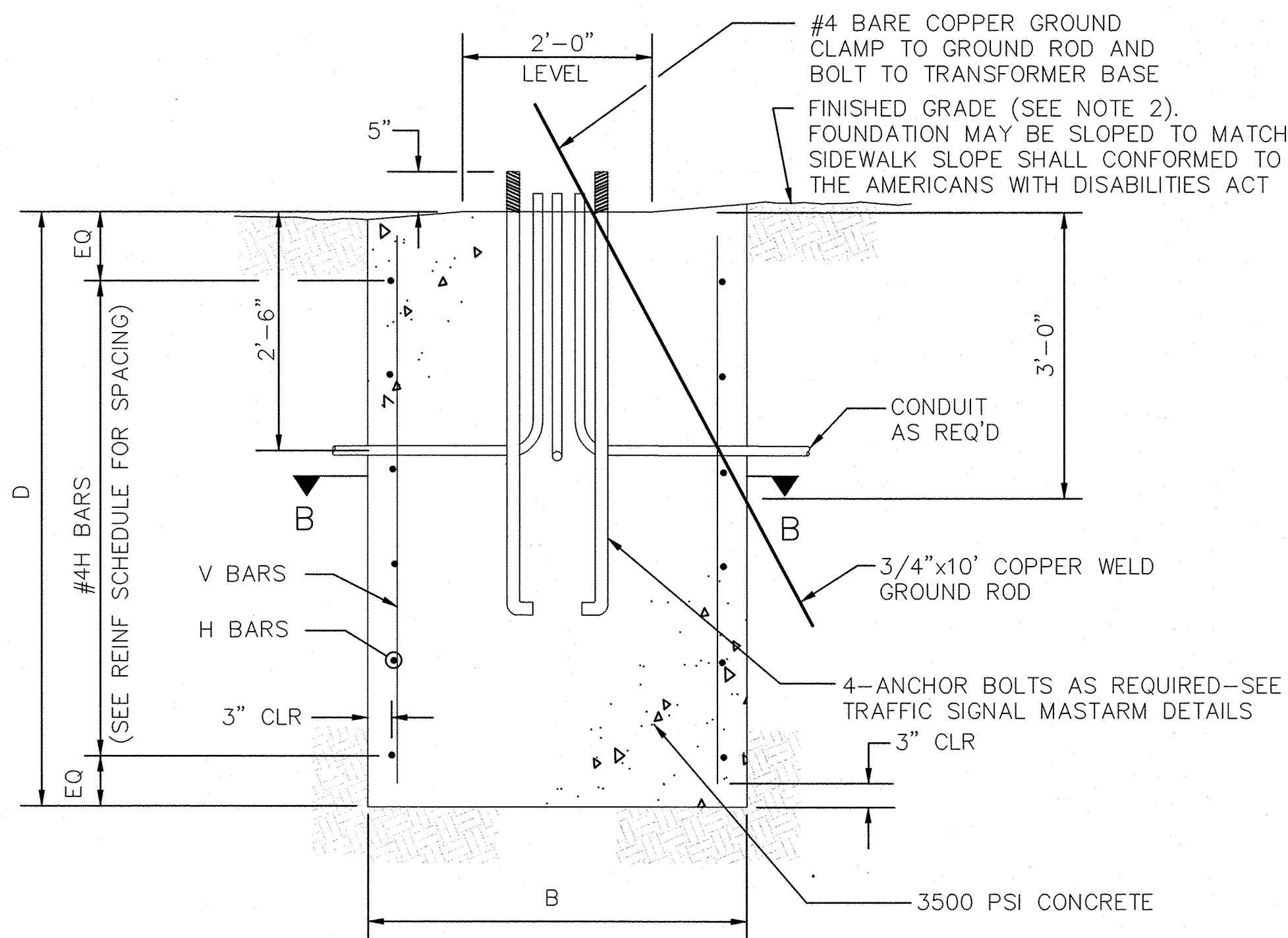
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NO.	DATE	NO.	DATE	CONTRACTOR	DATE
				WORK	DATE
				STAKED BY	DATE
				FIELD	DATE
				ACCEPTANCE BY	DATE
				DRAWINGS	DATE
				CORRECTED BY	DATE
				MICRO-FILM INFORMATION	DATE
				RECORDED BY	DATE
				NO.	DATE



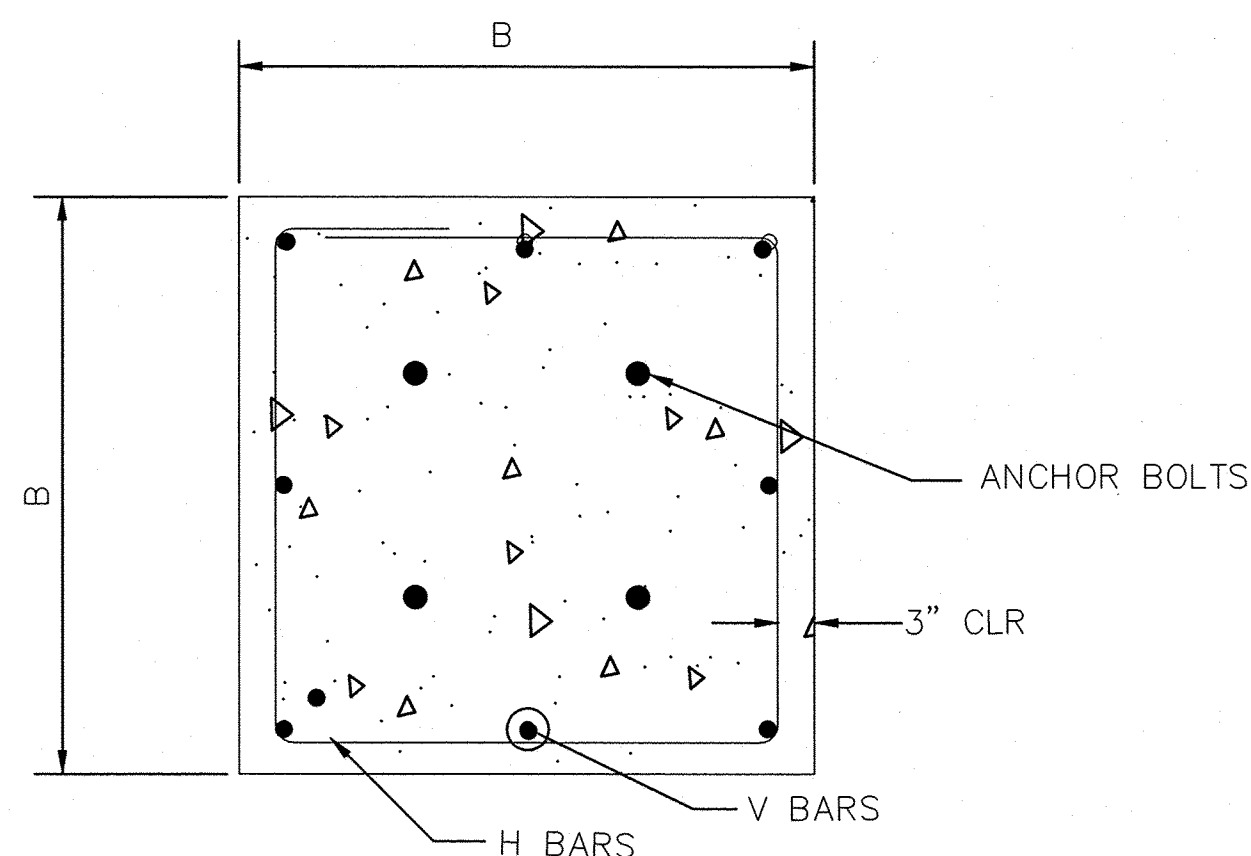
PLAN VIEW (SQUARE)
NO SCALE



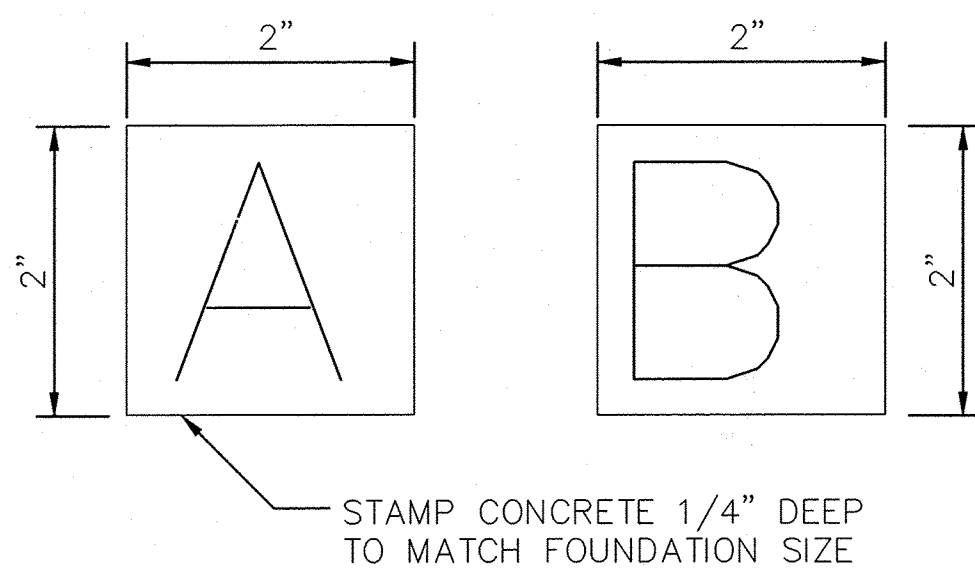
PLAN VIEW (ROUND)
NO SCALE



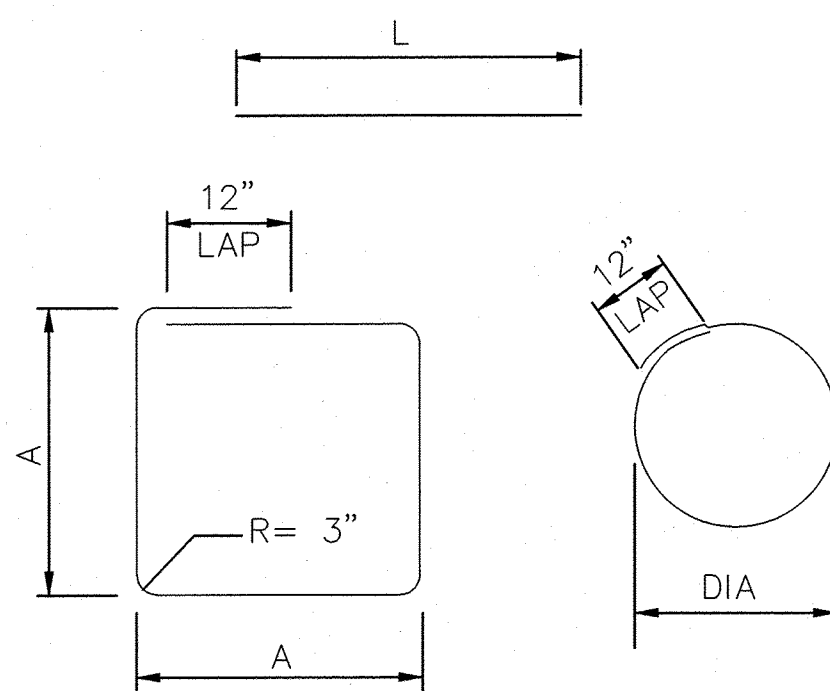
SECTION A-A (ROUND OR SQUARE)
NO SCALE



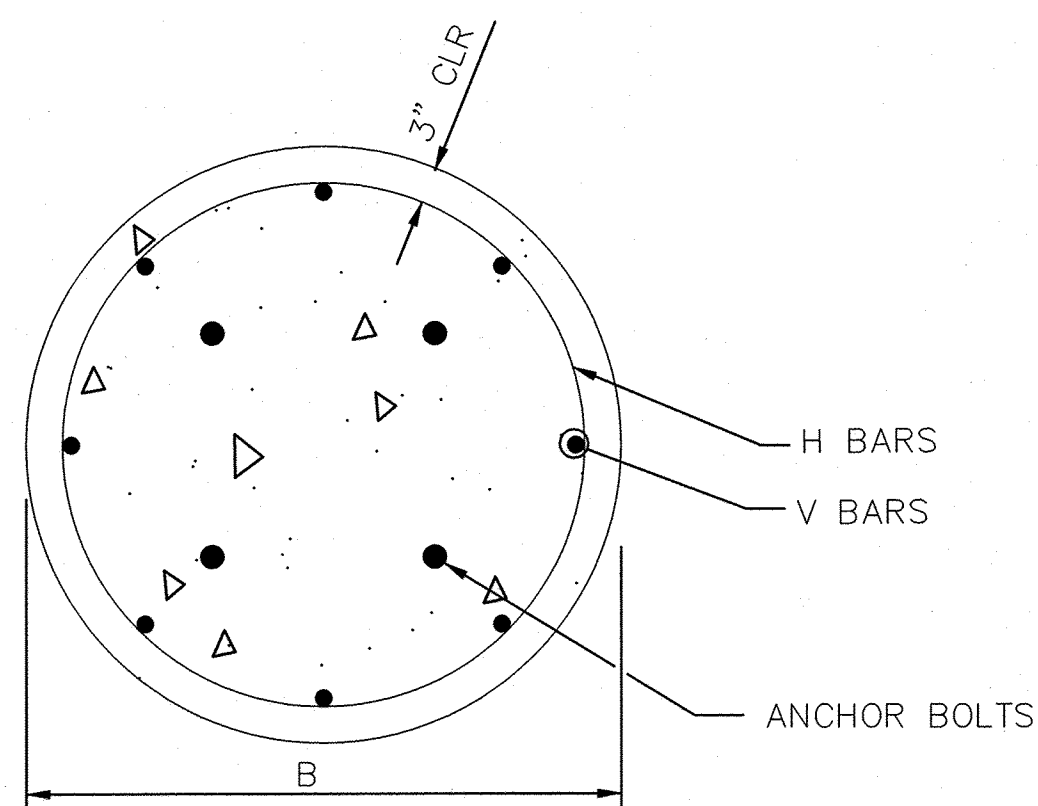
SECTION B-B (SQUARE)
NO SCALE



STAMP DETAIL
NO SCALE



BAR BENDING DIAGRAM
NO SCALE



SECTION B-B (ROUND)
NO SCALE

FOUNDATION DIMENSIONS AND QUANTITIES							
FOUNDATION TYPE	SIGNAL ARM SPAN(FT)	DIMENSION		REINFORCING		REBAR POUNDS	3500 PSI CONCRETE CUBIC YARDS
		B (WIDTH)	D (DEPTH)	V BARS MARK	H BARS MARK		
TYPE A (SQUARE)	15	3'-6"	5'-0"	#4V2	#3H2	49.1	2.27
	20	"	"	"	"	"	"
	25	"	"	"	"	"	"
TYPE B (SQUARE)	30	4'-0"	6'-3"	#5V1	#3H1	82.6	3.70
	35	"	"	"	"	"	"
	40	"	"	"	"	"	"
TYPE A (ROUND)	15	2'-6"	8'-6"	#6V4	#3H4	98.1	1.55
	20	"	"	"	"	"	"
	25	"	"	"	"	"	"
TYPE B (ROUND)	30	3'-0"	11'-9"	#7V3	#3H3	179.7	3.08
	35	"	"	"	"	"	"
	40	"	"	"	"	"	"

ROUND SHAPE TO BE USED ONLY WHERE SPECIFICALLY NOTED ON PLANS OR WHEN APPROVED BY THE PROJECT MANAGER.

REINFORCING SCHEDULE (GRADE 60 BARS)

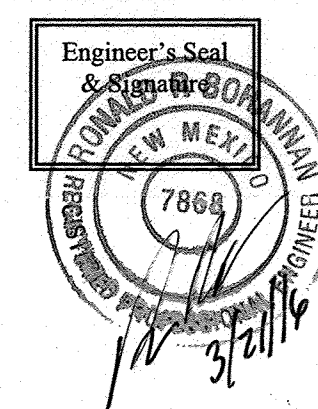
MARK	QUANT	TYPE	SIZE	LENGTH	COMMENTS
#5V1	8	1	5	5'-9"	
#4V2	8	1	4	4'-6"	
#7V3	6	1	7	11'-3"	
#6V4	6	1	6	8'-0"	
#3H1	6	2	3	15'-4"	A = 42", TIES AT 14" OC
#3H2	5	2	3	13'-4"	A = 36", TIES AT 12" OC
#3H3	12	3	3	9'-3"	DIA = 30", TIES AT 12" OC
#3H4	9	3	3	7'-8"	DIA = 24", TIES AT 12" OC

TRAFFIC SIGNAL MASTARM FOUNDATION NOTES

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

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RECORD
DRAWING

RECORD
DRAWING

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

UNSER BLVD AND LADERA DR
FOUNDATION DETAILS, TYPE II AND TYPE III STANDARD

DESIGN REVIEW COMMITTEE
APPROVE
APR 27 2015
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVE
JUL 30 2015
CITY ENGINEER

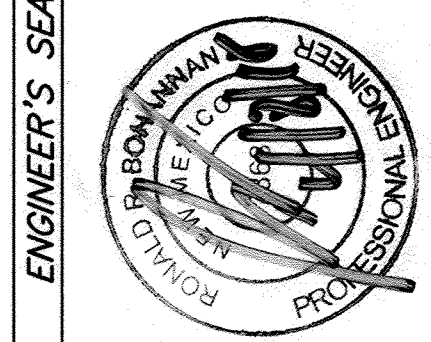
LAST DESIGN UPDATE

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

CITY PROJECT NO. 529882

ZONE MAP NO. H-9-Z

SHEET # 17 of 22



REVISIONS		BY	DATE
NO.	DATE		
1	DATE Feb, 2015	JN	DESIGNED BY
2	DATE Feb, 2015	PT	DRAWN BY
3	JOB NO 2014038		DRAWING NAME
4	DATE Feb, 2015	RRB	CHECKED BY

AS BUILT INFORMATION		CONTRACTOR	DATE
WORK	DATE		
STAKED BY	DATE		
FIELD ACCEPTANCE	DATE		
FIELD CORRECTIONS	DATE		
REVISIONS	DATE		
CORRECTED BY	DATE		
MICRO-FILM INFORMATION	DATE		
RECORDED BY	DATE		
NO.			

BENCH MARKS		CONTRACTOR	DATE
WORK	DATE		
STAKED BY	DATE		
FIELD ACCEPTANCE	DATE		
FIELD CORRECTIONS	DATE		
REVISIONS	DATE		
CORRECTED BY	DATE		
MICRO-FILM INFORMATION	DATE		
RECORDED BY	DATE		
NO.			

SURVEY INFORMATION		CONTRACTOR	DATE
WORK	DATE		
STAKED BY	DATE		
FIELD ACCEPTANCE	DATE		
FIELD CORRECTIONS	DATE		
REVISIONS	DATE		
CORRECTED BY	DATE		
MICRO-FILM INFORMATION	DATE		
RECORDED BY	DATE		
NO.			

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	RED LEFT TURN ARROW	PHASE 5 RED	RED LT & RT TURN ARROW 3D,3E
4	GREEN	—	PHASE 1 GREEN	GREEN LEFT TURN ARROW 3B,3C	PHASE 5 GREEN	GREEN LT & RT TURN ARROW 1B,1C,3D,3E
5	ORANGE	—	PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 3B,3C	PHASE 5 YELLOW	YELLOW LT & RT TURN ARROW 1B,1C,3D,3E
6	BLUE	—	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 1M1,1M2,1M3,1A,1B,1C	PHASE 6 RED	RED BALL 3M1,3M2,3M3,3A,3B,3C
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 1M1,1M2,1M3,1A,1B,1C	PHASE 6 GREEN	GREEN BALL 3M1,3M2,3M3,3A,3B,3C
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 1M1,1M2,1M3,1A,1B,1C	PHASE 6 YELLOW	YELLOW BALL 3M1,3M2,3M3,3A,3B,3C
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P2A,P2B, P9B	PHASE 6 WALK	PEDESTRIAN WALK P6A,P6B, P9A
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P2A,P2B, P9B	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P6A,P6B, P9A
13	RED	WHITE	PHASE 3 RED	RED LEFT TURN ARROW 4B,4C	PHASE 7 RED	RED LEFT TURN ARROW 2B,2C
14	GREEN	WHITE	PHASE 3 GREEN	GREEN LEFT TURN ARROW 4B,4C	PHASE 7 GREEN	GREEN LEFT TURN ARROW 2B,2C
15	BLUE	WHITE	PHASE 3 YELLOW	YELLOW LEFT TURN ARROW 4B,4C	PHASE 7 YELLOW	YELLOW LEFT TURN ARROW 2B,2C
16	BLACK	RED	PHASE 4 RED	RED BALL 2M1,2M2,2A, 3D,3E	PHASE 8 RED	RED BALL 4M1,4A, 3D,3E
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 2M1,2M2,2A, 3D,3E	PHASE 8 GREEN	GREEN BALL 4M1,4A, 3D,3E
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 2M1,2M2,2A, 3D,3E	PHASE 8 YELLOW	YELLOW BALL 4M1,4A, 3D,3E
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P4A,P4B	PHASE 8 WALK	PEDESTRIAN WALK P8A,P8B
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P4A,P4B	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P8A,P8B

DETECTOR LOOPS											
LOOP ID	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAWCUT
	MODE	CALL	UNIT NO	CHANNEL		L	W	S	T		
DL3 (1)	PRESENCE		FIVE	CH 1	QP	50'	6'	13'	5'	465	125
DL3 (2)	PRESENCE		TEN	CH 1	QP	50'	6'	20'	5'	479	132
DL4 (1)	PRESENCE		SIX	CH 1	QP	50'	6'	27'	5'	493	139
DL4 (2)	PRESENCE		SIX	CH 2	QP	50'	6'	16'	5'	471	128
DL4 (3)	PRESENCE		SIX	CH 2	QP	50'	6'	5'	5'	449	117
DL7 (1)	PRESENCE		FIVE	CH 2	QP	50'	6'	15'	5'	469	127
DL7 (2)	PRESENCE		TEN	CH 2	QP	50'	6'	21'	5'	481	133
DL8 (1)	PRESENCE		SEVEN	CH 1	QP	50'	6'	15'	5'	469	127
DL8 (2)	PRESENCE		SEVEN	CH 2	QP	50'	6'	5'	5'	449	117
DL5 (1)	PRESENCE		FIVE	CH 2	QP	50'	6'	15'	5'	469	127
DL5 (2)	PRESENCE		FIVE	CH 2	QP	50'	6'	5'	5'	449	117
TOTAL									55	5143	1389

FUNCTION CHART – 24 VOLT CIRCUIT 3/			
MULTI CONDUCTOR CABLE 5			
CONDUCTOR NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	PPB2A,PPB2B
2	WHITE	COMMON	PP2A,2B,4A,4B,6A,6B,8A,8B
3	RED	PHASE 4 PPB	PPB4A,PPB4B
4	GREEN	PHASE 6 PPB	PPB6A,PPB6B
5	ORANGE	PHASE 8 PPB	PPB8A,PPB8B

DETECTOR RACK ASSIGNMENTS

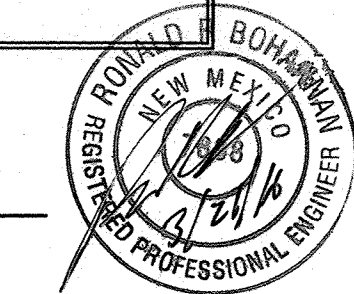
UNIT NUMBER →	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1 →		Ø1	Ø2	Ø6	Ø2 EC	Ø3	Ø4	Ø8	Ø4 EC	DUAL LEFT Ø1	DUAL LEFT Ø3	SD 1	SD 3	SD 5	SD 7	SD 9	P E D I S O L A T I O N	OPTICOM 1	OPTICOM 3
CHANNEL 2 →		Ø5	Ø2	Ø6	Ø6 EC	Ø7	Ø4	Ø8	Ø8 EC	DUAL LEFT Ø5	DUAL LEFT Ø7	SD 2	SD 4	SD 6	SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED →	*					✓	✓	✓										✓	✓

* INCIDENTAL TO CONSTRUCTION

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Terra Land Surveys, Inc., NMPS number 15702.

Engineer's Seal & Signature



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 BOX 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.

ABBREVIATIONS

DL – DETECTOR LOOP
EC – EXTENDED CALL LOOP
L – DETECTOR LOOP LENGTH
W – DETECTOR LOOP WIDTH
S – SAW CUT LOOP TO CURB
T – TERMINAL LENGTH
QP – QUADRAPOLE LOOP
SDWBA – SYSTEM DETECTOR WEST BOUND APPROACH
SDWBD – SYSTEM DETECTOR WEST BOUND DEPARTURE
SDEBA – SYSTEM DETECTOR EAST BOUND APPROACH
SDEBD – SYSTEM DETECTOR EAST BOUND DEPARTURE
SDNBA – SYSTEM DETECTOR NORTH BOUND APPROACH
SDNBD – SYSTEM DETECTOR NORTH BOUND DEPARTURE
SDSBA – SYSTEM DETECTOR SOUTH BOUND APPROACH
SDSBD – SYSTEM DETECTOR SOUTH BOUND DEPARTURE

QUANTITY ESTIMATING ASSUMPTIONS:

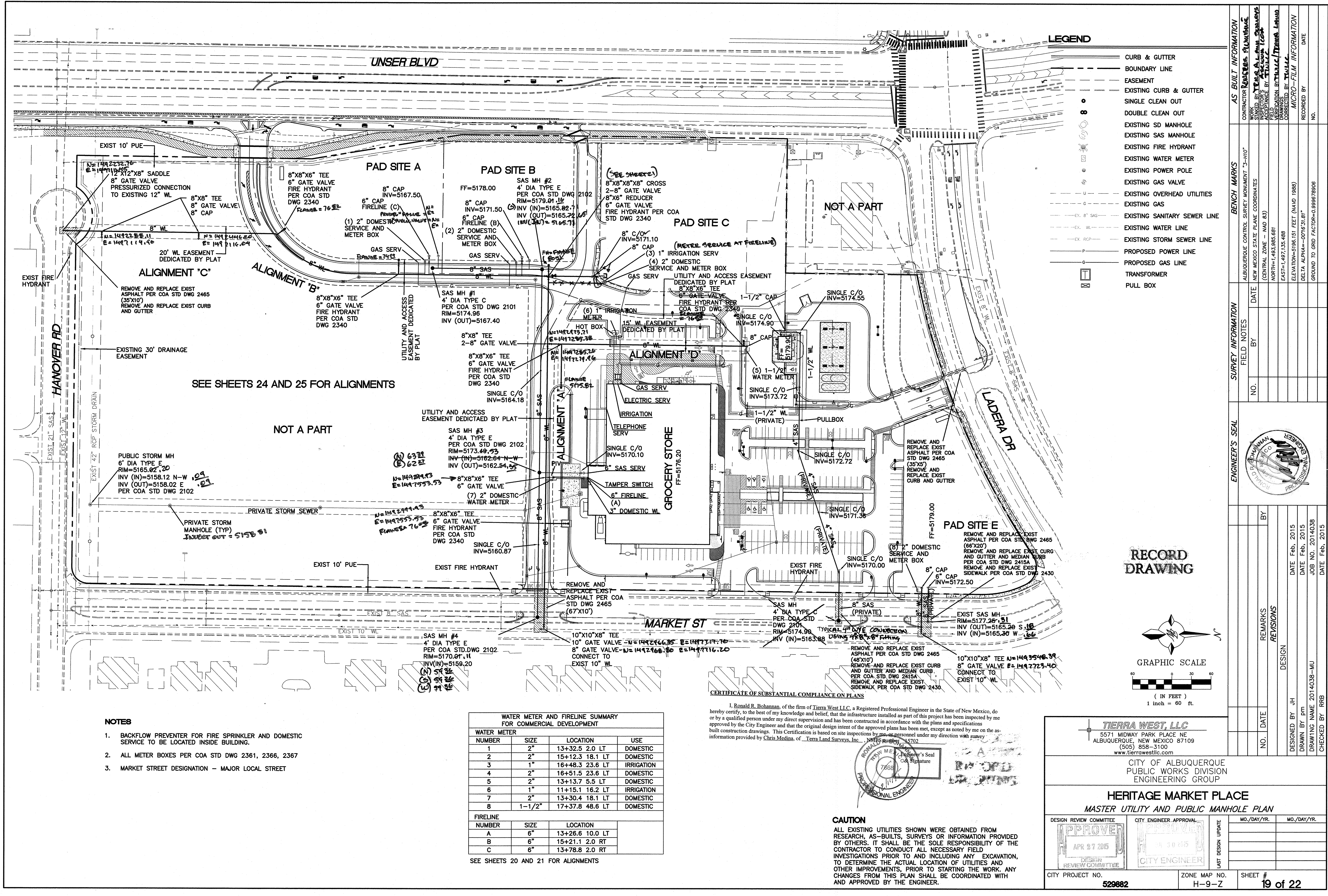
LOOP WIRE	
6' X 30' QP LOOP	= (8*L) + (4*W) + (2*S) + (2*T) + 5 = 269 + 2(S+T)
6' X 40' QP LOOP	= (8*L) + (4*W) + (2*S) + (2*T) + 5 = 349 + 2(S+T)
6' X 50' QP LOOP	= (8*L) + (4*W) + (2*S) + (2*T) + 5 = 429 + 2(S+T)
6' X 6' EC LOOP	= (6*L) + (6*W) + (2*S) + (2*T) + 5 = 77 + 2(S+T)
6' X 6' SYS LOOP	= (8*L) + (8*W) + (2*S) + (2*T) + 5 = 96 + 2(S+T)

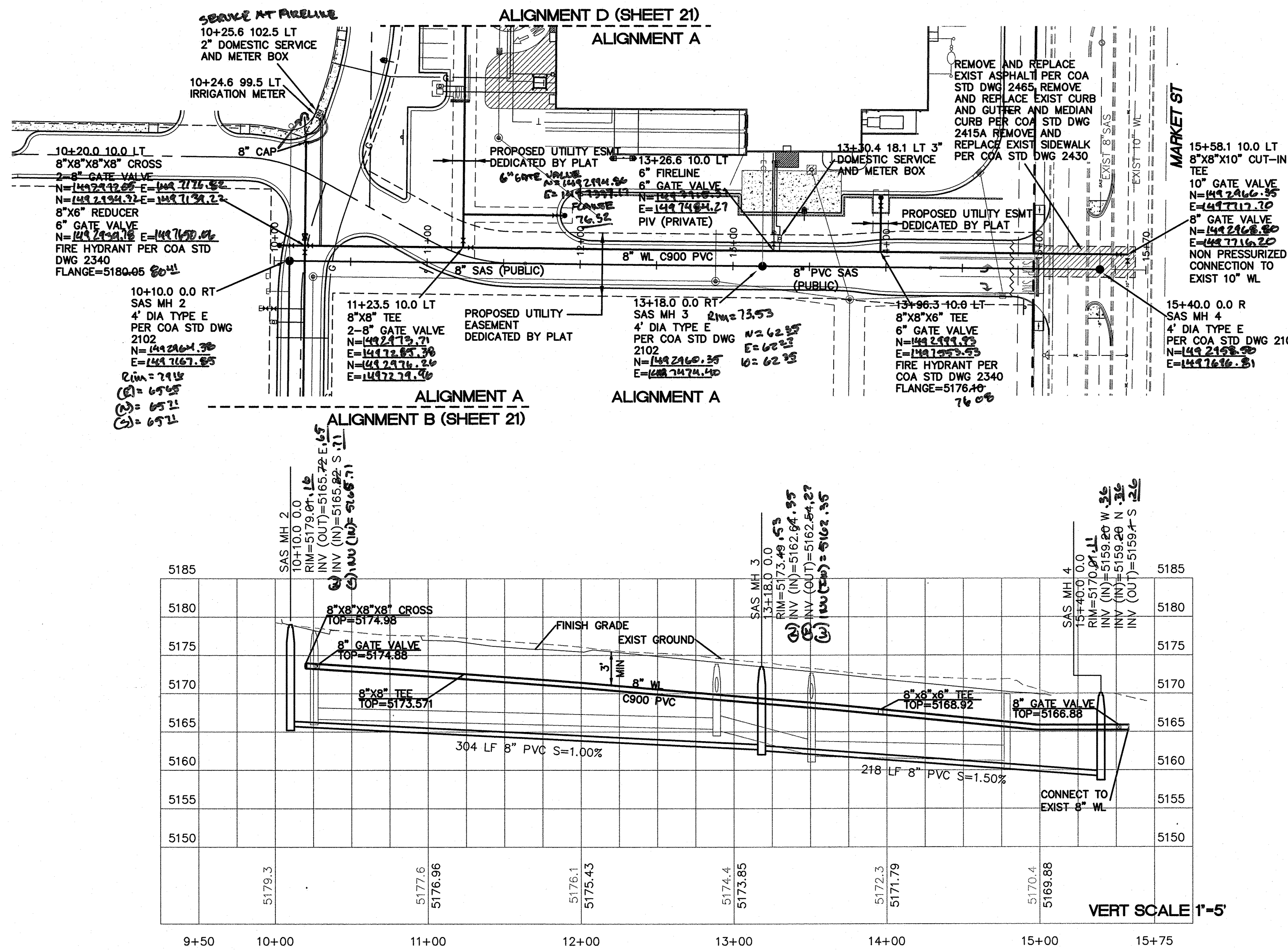
PAVEMENT SAW CUT	
6' X 30' QP LOOP	= (3*L) + (2*W) + S = 102 + S
6' X 40' QP LOOP	= (3*L) + (2*W) + S = 132 + S
6' X 50' QP LOOP	= (3*L) + (2*W) + S = 162 + S
6' X 6' EC LOOP	= (2*L) + (2*W) + S = 24 + S
6' X 6' SYS LOOP	= (2*L) + (2*W) + S = 24 + S

WHERE:

L = DETECTOR LOOP LENGTH (FROM PLAN)
W = DETECTOR LOOP WIDTH (FROM PLAN)
S = SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLAN)
T = LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLAN)

TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
UNSER BLVD AND LADERA DR FUNCTION AND DETECTORS AND DETECTOR TABLES			
DESIGN REVIEW COMMITTEE APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED APR 28 2015 CITY ENGINEER	LAST DESIGN UPDATE	MO./DAY/YR. MO./DAY/YR.
CITY PROJECT NO. 529882		ZONE MAP NO. H-9-Z	SHEET # 18 of 22





LEGEND

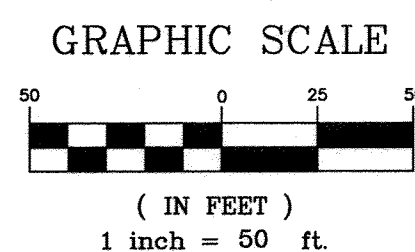
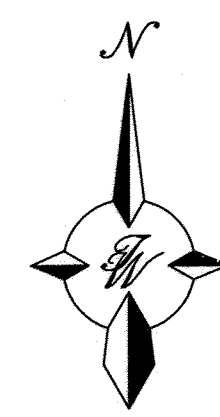
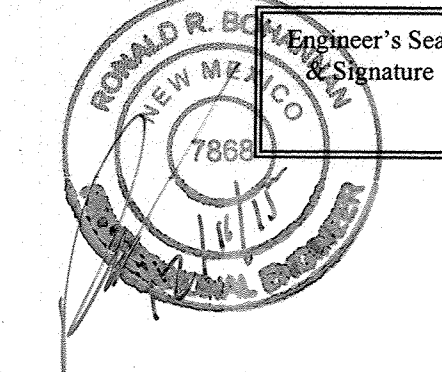
---	CURB & GUTTER
---	BOUNDARY LINE
---	EASEMENT
---	EXISTING CURB & GUTTER
o	SINGLE CLEAN OUT
o	DOUBLE CLEAN OUT
o	EXISTING SD MANHOLE
o	EXISTING SAS MANHOLE
o	EXISTING FIRE HYDRANT
o	EXISTING WATER METER
o	EXISTING POWER POLE
o	EXISTING GAS VALVE
---	EXISTING OVERHEAD UTILITIES
---	EXISTING GAS
---	EXISTING SANITARY SEWER LINE
---	EXISTING WATER LINE
---	EXISTING STORM SEWER LINE

NOTES

- SANITARY SEWER SERVICE CONNECTION PER COA STD DWG 2125.
- ALL FIRE HYDRANTS ARE TO BE BUILT WITH MECH RESTRAINTS PER COA STANDARDS.
- ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED PRIOR TO AND CONSTRUCTION OF UTILITIES.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- ALL WATERLINES ARE C900 PVC (DR18) UNLESS OTHERWISE NOTED ON PLAN ELEVATION.
- ALL SANITARY SEWER LINES ARE TO BE SDR35 UNLESS OTHERWISE NOTED ON PLAN ELEVATION.
- BASIS OF ALIGNMENT: CL SAS LINE
- ALL METER BOXES PER COA STD DWG 2361, 2366 AND 2367

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Tierra Land Surveys, Inc., NMPS number 15702.



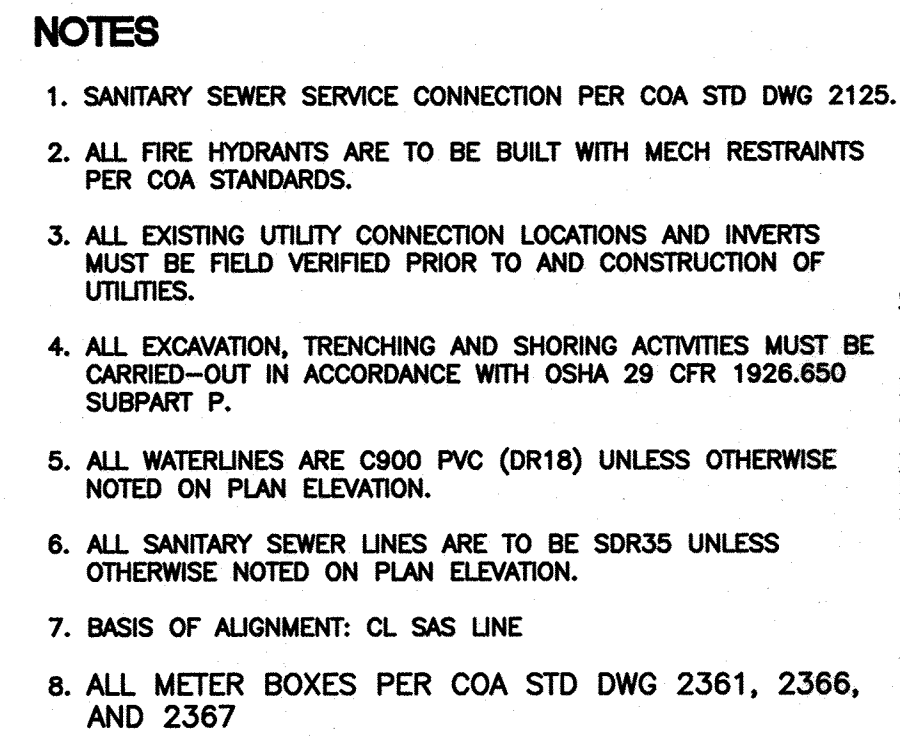
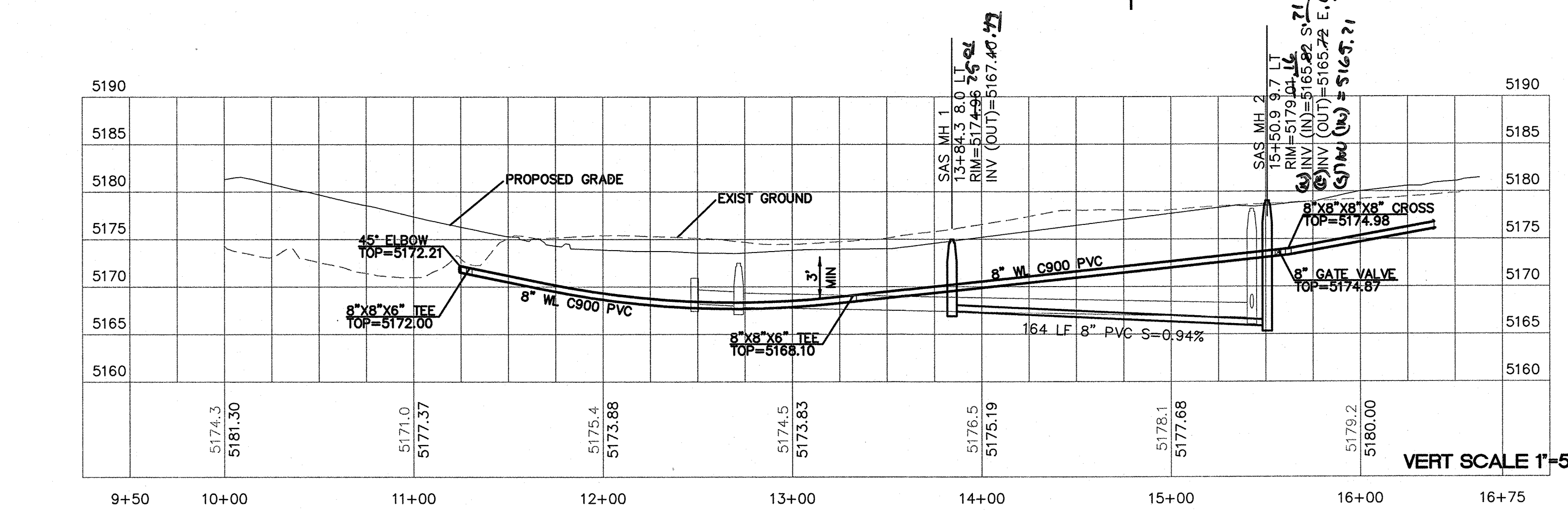
RECORD
DRAWING

CAUTION

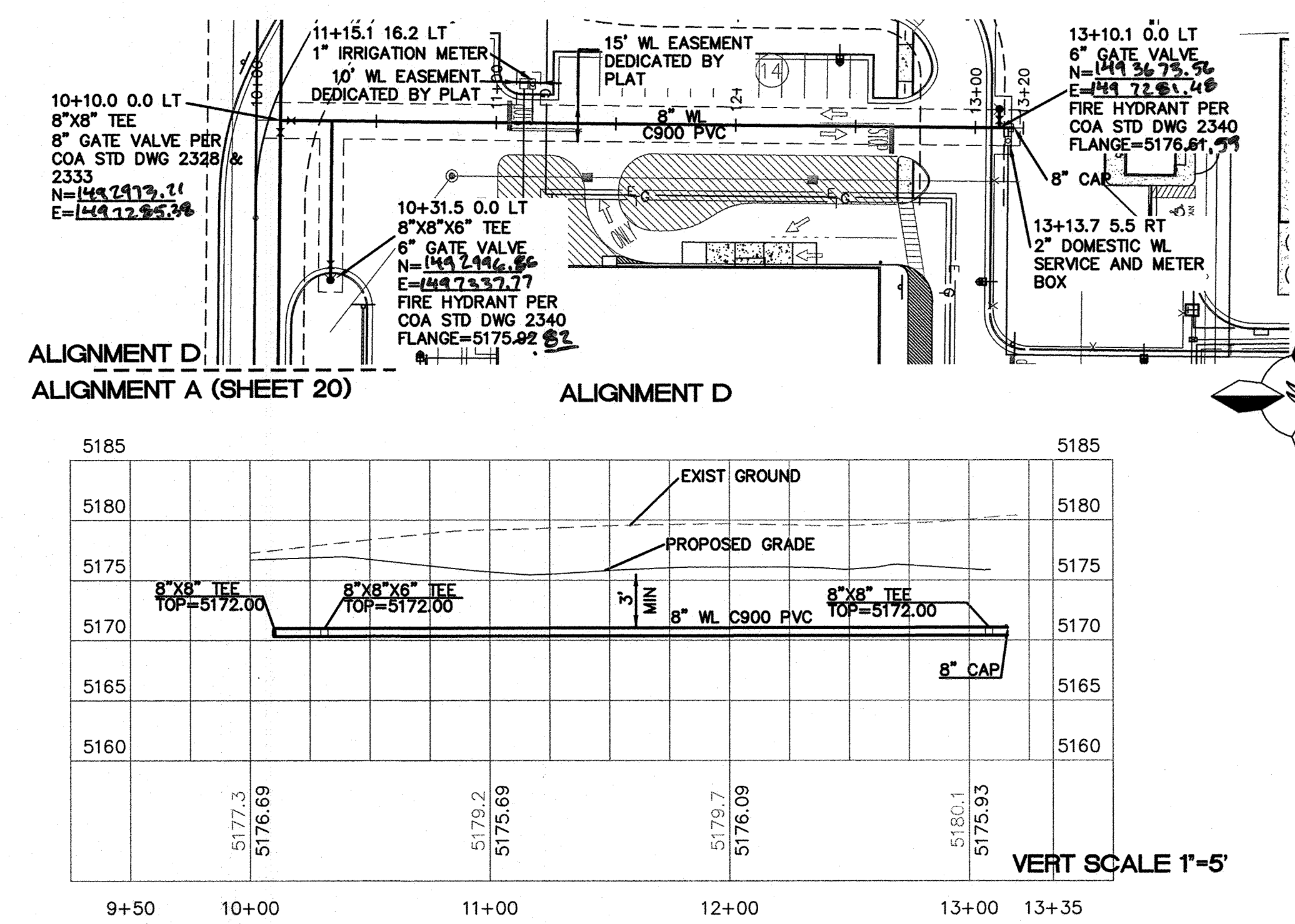
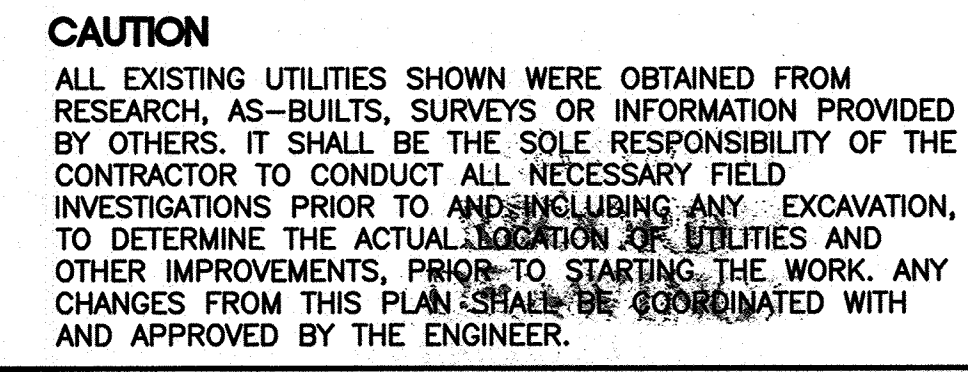
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND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

TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrowestllc.com	
CITY OF ALBUQUERQUE PUBLIC WORKS DIVISION ENGINEERING GROUP	
HERITAGE MARKET PLACE SANITARY SEWER AND WATER LINE PLAN AND PROFILE	
DESIGN REVIEW COMMITTEE APPROVED APR 27 2015 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED APR 30 2015 CITY ENGINEER
CITY PROJECT NO. 529882	ZONE MAP NO. H-9-Z
SHEET # 20 of 22	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR: TIERRA LAND SURVEYS, LLC STAKED BY: TIERRA LAND SURVEYS, LLC INSPECTOR'S FIELD VERIFICATION BY: TULLIE CORRECTED BY: TULLIE MICRO-FILM INFORMATION RECORDED BY: DATE: NO.		ALBUQUERQUE CONTROL SURVEY MONUMENT "3-H10" NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE - NAD 83) NORTH=1,493,985.681 EAST=1,497,135.688 ELEVATION=5196.151 FEET (NAVD 1988) DELTA ALPHA=-0076.51.81" GROUND TO GRID FACTOR=0.999678906		FIELD NOTES NO. BY DATE		REMARKS REVISIONS DESIGN DATE: Feb. 2015 DRAWN BY: pm DRAWING NAME: 2014038-MU CHECKED BY: RRB DATE: Feb. 2015	

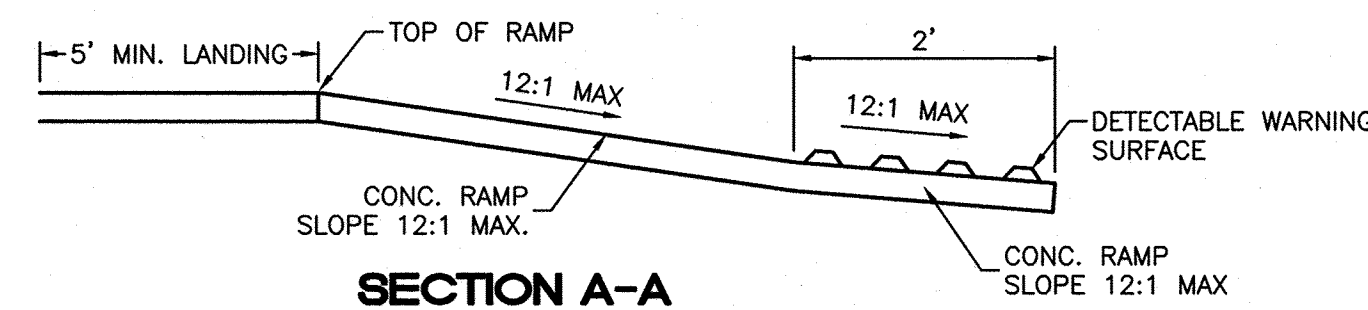
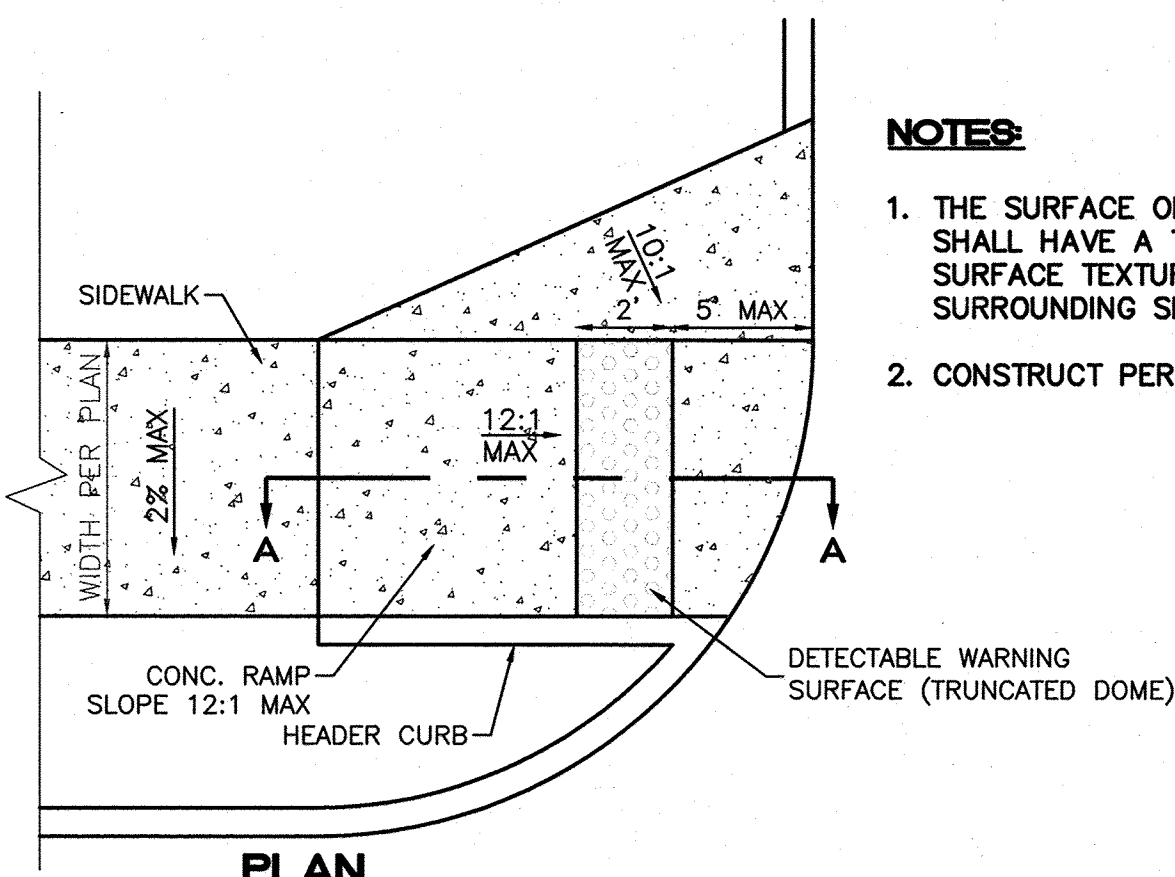


Professional Engineer Seal
New Mexico
7868
12/11/97
RONALD J. SANN
PROFESSIONAL ENGINEER

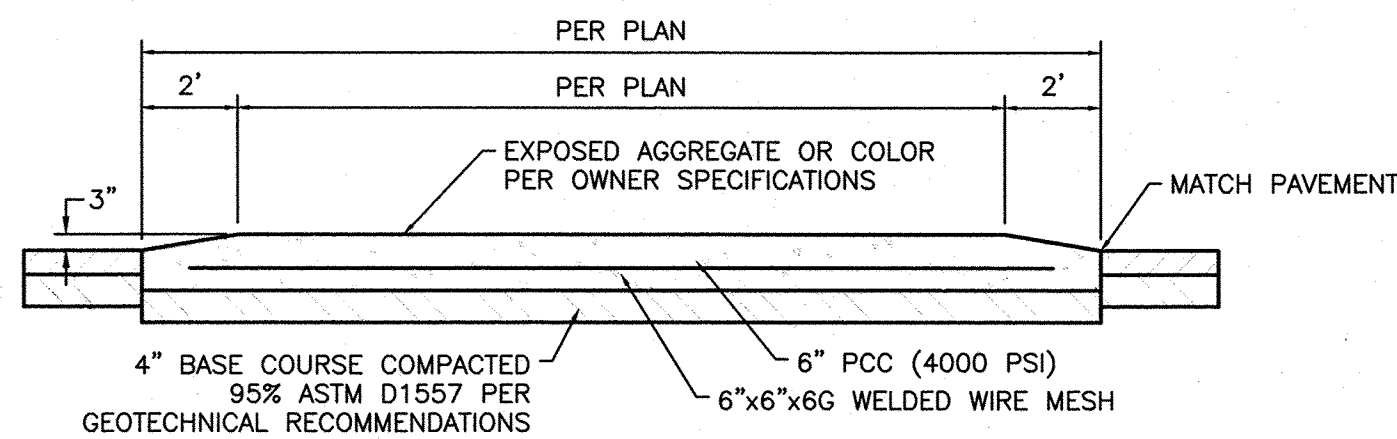
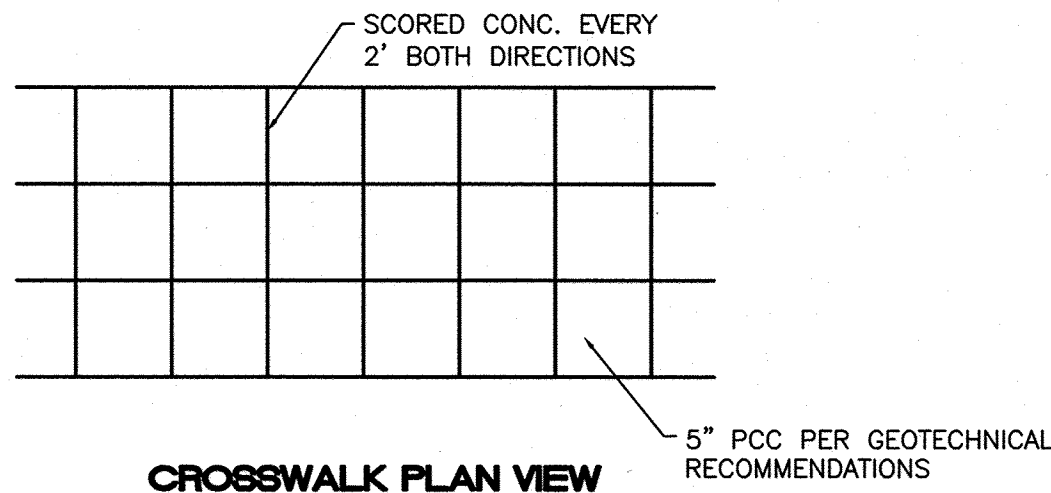


DESIGN REVIEW COMMITTEE 		CITY ENGINEER APPROVAL 		JUST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 529882			ZONE MAP NO. H-9-Z	SHEET # 21 of 22		

[illegible]



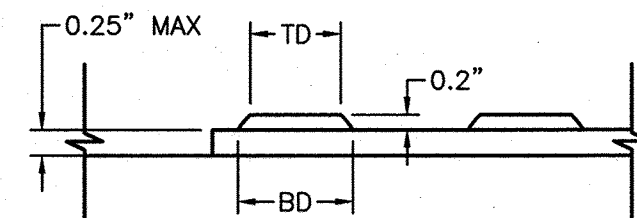
5 UNIDIRECTIONAL HC RAMP
NOT TO SCALE



NTS

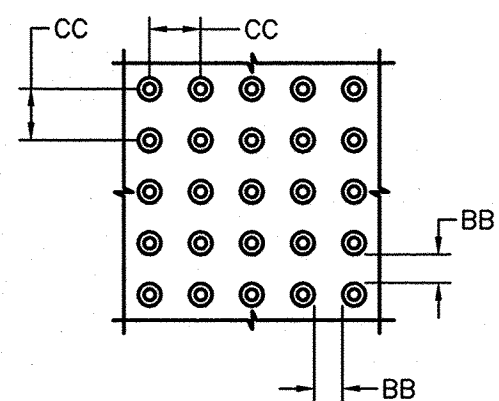
NOTES:

1. THE SURFACE OF RAMP AND SIDES SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.
2. CONSTRUCT PER A.D.A. STANDARDS.



DOME SECTION

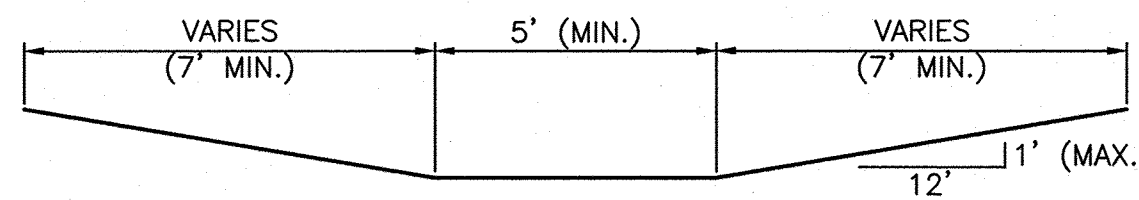
BD - BASE DIAMETER 0.9" MIN
TD - TOP DIAMETER 50% OF BD MIN TO 65% OF BD MAX



6

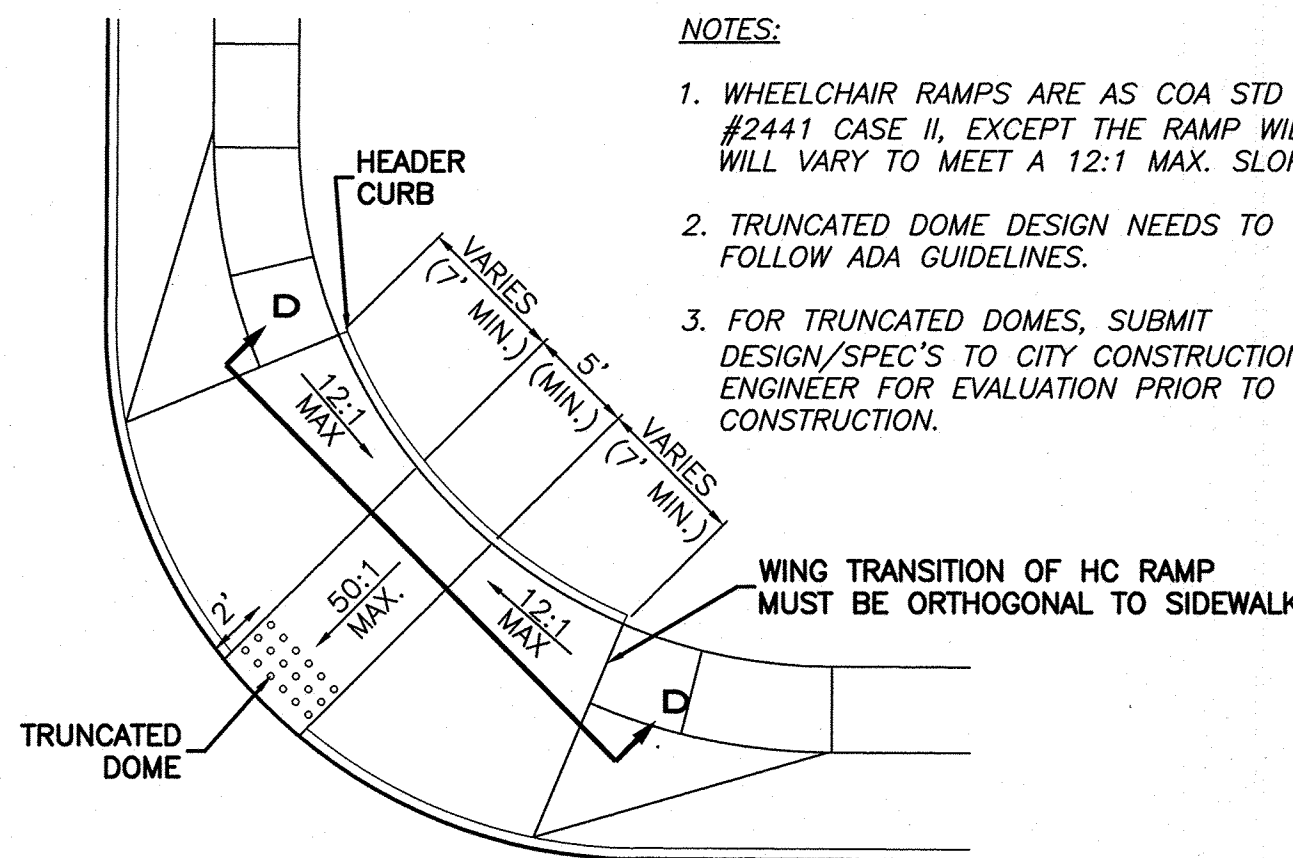
DOME SPACING

CC - CENTER TO CENTER SPACING 2.35"
BB - BASE TO BASE SPACING 1.48" MIN



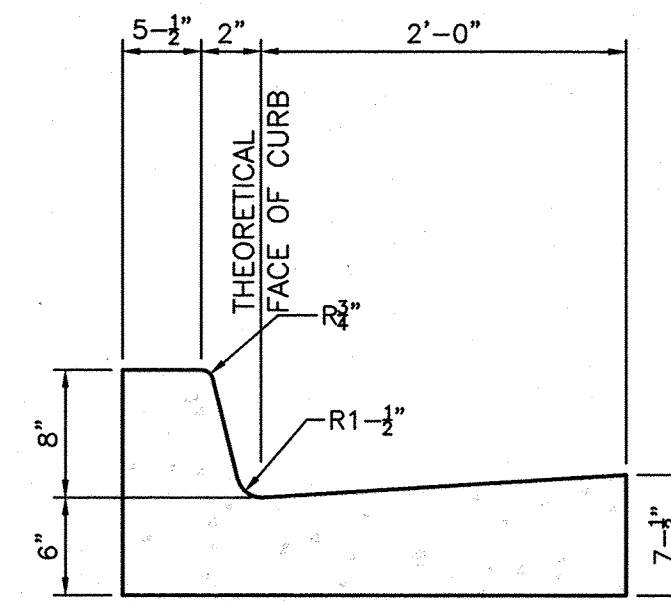
NOTES:

1. WHEELCHAIR RAMPS ARE AS COA STD DWG #2441 CASE II, EXCEPT THE RAMP WIDTH WILL VARY TO MEET A 12:1 MAX. SLOPE.
2. TRUNCATED DOME DESIGN NEEDS TO FOLLOW ADA GUIDELINES.
3. FOR TRUNCATED DOMES, SUBMIT DESIGN/SPEC'S TO CITY CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.



WHEELCHAIR RAMP DETAIL (TYP.)

NTS

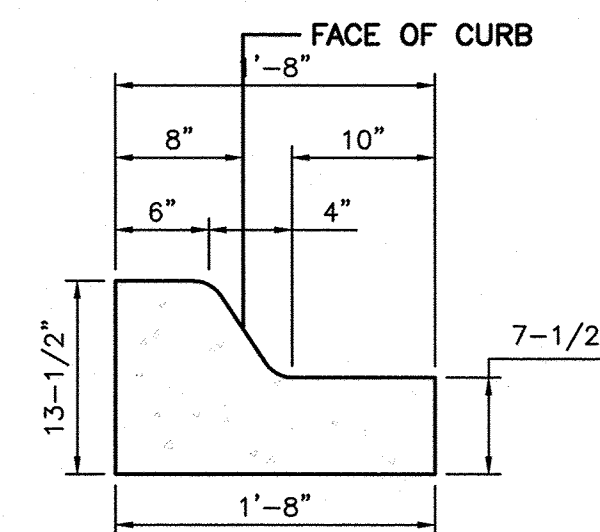


CURB GENERAL NOTES:

1. ALL CURBS TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PER COA SPECIFICATIONS.
2. PROVIDE CONTRACTION JTS. 12' MAX., SPACING, 1/2" EXP. JTS. AT CURB RETURNS AND AT A MAX. SPACING OF 120' BETWEEN CURB RETURNS AND EACH SIDE OF SEPARATELY CONSTRUCTED DRIVEWAYS. CONTRACTION JTS. SHALL BE EITHER SAWED OR TOOLED A MINIMUM OF 1" DEEP AT FINISHED FACES.
3. ALL EDGES SHALL BE EDGED WITH A 3/8" RADUIS EDGING TOOL.
4. 1/4" ISOLATION JOINT SHALL BE PLACED BETWEEN SIDEWALK AND CURB WHEN CAST ADJACENT TO EACH OTHER.

8' STANDARD CURB / GUTTER

NTS



CURB GENERAL NOTES:

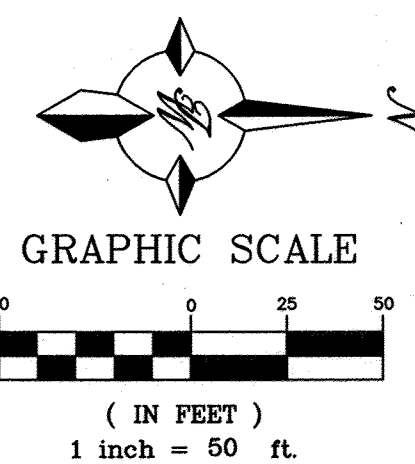
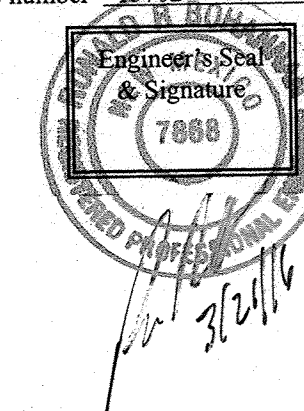
1. ALL CURBS TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PER COA SPECIFICATIONS.
2. PROVIDE CONTRACTION JTS. 12' MAX., SPACING, 1/2" EXP. JTS. AT CURB RETURNS AND AT A MAX. SPACING OF 120' BETWEEN CURB RETURNS AND EACH SIDE OF SEPARATELY CONSTRUCTED DRIVEWAYS. CONTRACTION JTS. SHALL BE EITHER SAWED OR TOOLED A MINIMUM OF 1" DEEP AT FINISHED FACES.
3. ALL EDGES SHALL BE EDGED WITH A 3/8" RADUIS EDGING TOOL.
4. 1/4" ISOLATION JOINT SHALL BE PLACED BETWEEN SIDEWALK AND CURB WHEN CAST ADJACENT TO EACH OTHER.

MOUNTABLE MEDIAN CURB / GUTTER

NTS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with survey information provided by Chris Medina, of Tierra Land Surveys, Inc., NMPS number 15702.

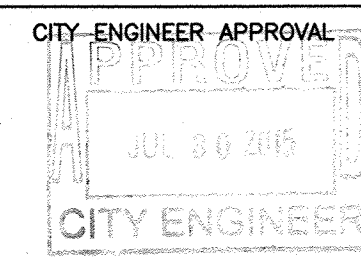


AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		REVISIONS		DESIGN	
CONTRACTOR	R & B Construction	ALBUQUERQUE CONTROL SURVEY MONUMENT "3-110"		FIELD NOTES		ENGINEER'S SEAL		NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
WORK	By: Terra Land Surveys	NEW MEXICO STATE PLANE COORDINATES													
INSPECTOR'S	ACCEPTANCE BY: Chris Medina	(CENTRAL ZONE - NAD 83)													
VERIFICATION	BY: Chris Medina	NORTH=1,497,135.488													
DRAWINGS	CONSTRUCTED BY: Tierra West LLC	EAST=1,497,135.488													
MICRO-FILM INFORMATION		ELEVATION=5186.151 FEET (NAD 1983)													
RECORDED BY		DELTA ALPHA=0076.916"													
DATE		GROUND TO GRID FACTOR=0.999678906													
NO.															

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 858-3100
www.tierrawestllc.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DIVISION
ENGINEERING GROUP

LADERA DRIVE AND MARKET STREET
CONSTRUCTION DETAILS



LAST DESIGN UPDATE

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

CITY PROJECT NO.

529882

ZONE MAP NO.

H-9-Z

SHEET #

22 of 22

RECORD
DRAWING