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14-7772184-2014

PUBLIC IMPROVEMENT PLANS
FOR

MCMAHON MARKETPLACE, PHASE 2
ALBUQUERQUE, NEW MEXICO

MAY 2012

PREPARED FOR:
Peterson INV-McMahon, LLC
2325 SAN PEDRO NE, STE. 2A
ALBUQUERQUE, NM 87110

PREPARED BY:
ISAACSON & ARFMAN, P.A.
128 MONROE ST. NE
ALBUQUERQUE, NM 87108

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: Feb 19, 2014

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CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

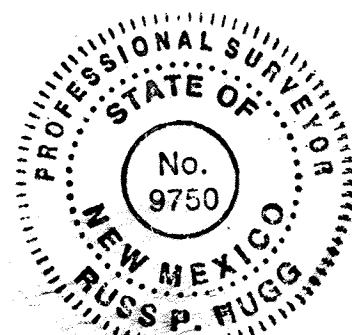
I, Genevieve L. Donart of the firm of Isaacson & Arfman, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my 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 and survey information provided by Russ Hugg of the firm Surv-Tek, Inc., NMPS #9750.

Genevieve L. Donart
NEW MEXICO
15088
Professional Engineer
09/20/13
NMPE # 15088

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
2013



GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED, FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION AS AMENDED WITH UPDATE NO. 8.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, NM ONE CALL SYSTEMS, INC. @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED WITH UPDATE NO. 8.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- TRAFFIC CONTROL: SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PRE-FORMED THERMO REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS SHOWN IN THIS PLAN SET.
- WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
- EXISTING CURB AND GUTTER NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE PER COA STD DWG #2415A.
- SUPPLEMENTAL SPECIFICATION: ALL BACKFILL FOR WATER LINE AND SANITARY SEWER LINE TRENCHES SHALL BE COMPACTED TO A MINIMUM 95% MAXIMUM DENSITY PER ASTM D-1557.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 DR-18 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
- ALL SANITARY SEWER LINE MATERIALS SHALL BE PVC SDR-35 PIPE.
- ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS UPDATE #8.
- PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- WARNING--EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- ANY WORK OCCURRING WITHIN A FULLY DEVELOPED ARTERIAL ROADWAY REQUIRES 24 HR. CONSTRUCTION.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO
- HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.
- PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF PREFORMED THERMO-PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #8.
- ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- 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 SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://ABCWUA.ORG/CONTENT/VIEW/463/729/](http://abcwua.org/content/view/full/463/729/).
- CONTRACTOR SHALL SUPPORT ALL EXISTING UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF RECORD DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.
- THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT REMOVES, RELOCATES, OR REINSTALLS ANY EXISTING REGULATORY SIGNS.
- IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE MEASURES TO PREVENT ABRUPT PAVEMENT CHANGES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- CONTRACTOR SHALL REPLACE IN KIND ANY EXISTING STRIPING OR ANY OTHER PAVEMENT MARKINGS IMPACTED BY THE WORK. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

Record Drawing

DRB NO. 1005280		ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com 1967 CC-001.dwg May 14, 2012			
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****
		DRC Chairman	AWoodall	9/27/12	APPROVED FOR CONSTRUCTION
		Transportation		25/12/12	
		Water/Wastewater		5-14-13	
		Hydrology		5/15/13	
		Constr. Mngmt.			
		Constr. Coord.			
City Project No.		777284		Sheet 1 of 17	3-26-13 City Engineer Date

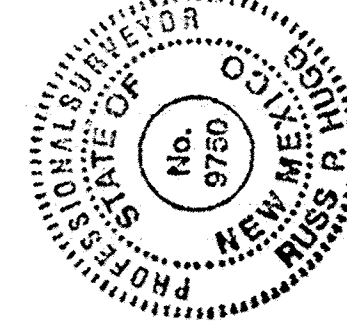
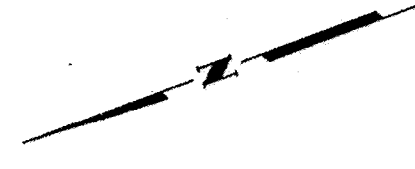
PLAT OF
McMAHON MARKETPLACE
(BEING A REPLAT OF TRACT 16A-1, PARADISE NORTH
AND TRACT E-1-A-1, CRESTVIEW SUBDIVISION)
WITHIN
THE TOWN OF ALAMEDA GRANT
IN
PROJECTED SECTION 2, TOWNSHIP 11 NORTH, RANGE 2 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
FEBRUARY, 2009

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Tolous Oliver, Bernalillo Co

EXISTING BOUNDARIES AND EASEMENTS

PROPERTY CORNER LEGEND

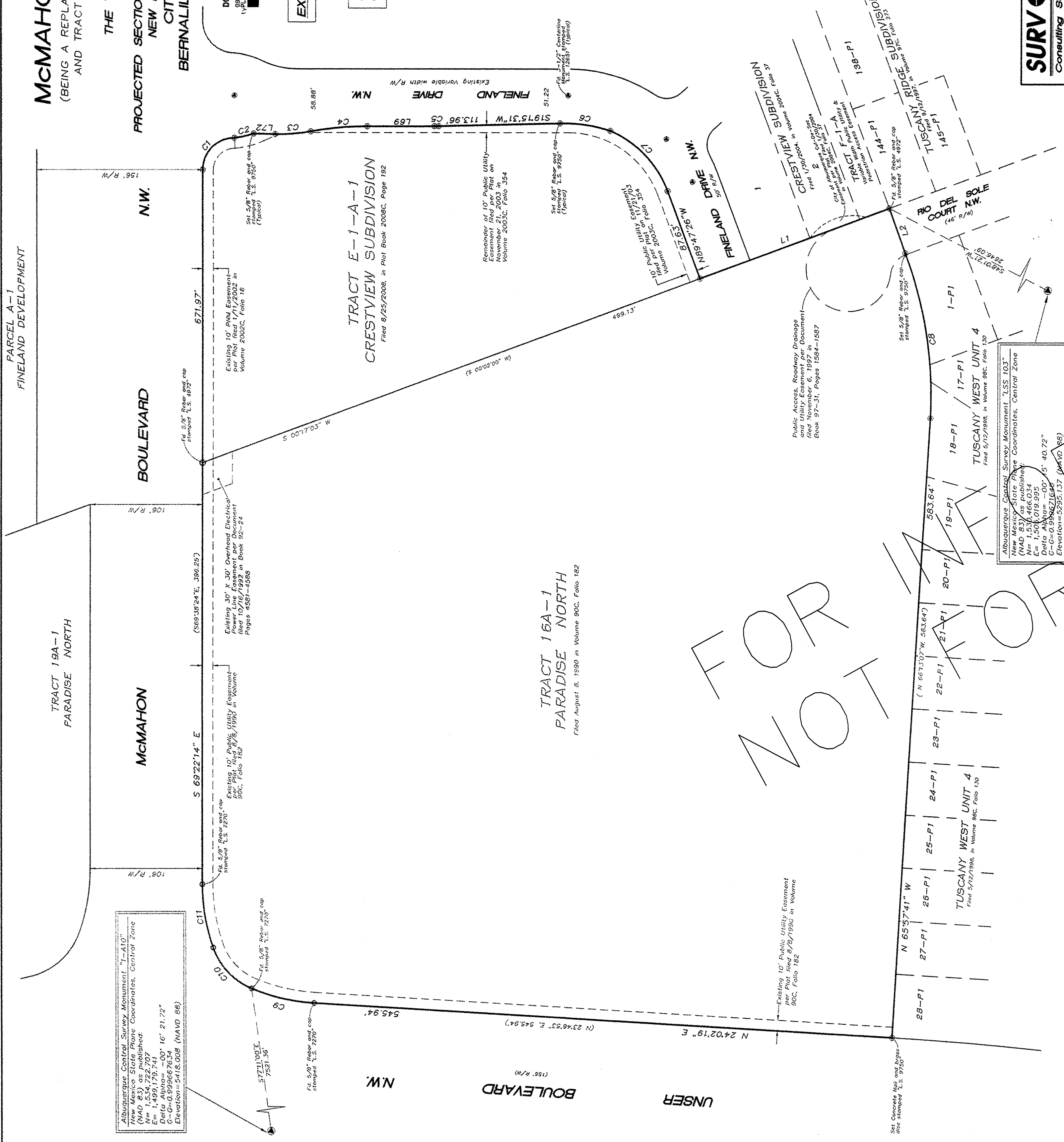
- = Fd. 5/8" Rebar and cap stamped "L.S. 7270"
- ⊙ = Set 5/8" Rebar and cap stamped "L.S. 9750"



SHEET 3 OF 6

SURV-TEK, INC.

Consulting Surveyors
8904 Valley View Drive, N.W. Albuquerque, New Mexico 87114 Phone: 505-897-3366
Fax: 505-897-3377



NOTE

L.S. 1 thru 9 McMahon Marketplace are subject to that certain "COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS AGREEMENT", filed in the office of the County Clerk of Bernalillo County, New Mexico on January 14, 2010 as Document # 2010043656

PLAT OF
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FEBRUARY, 2009

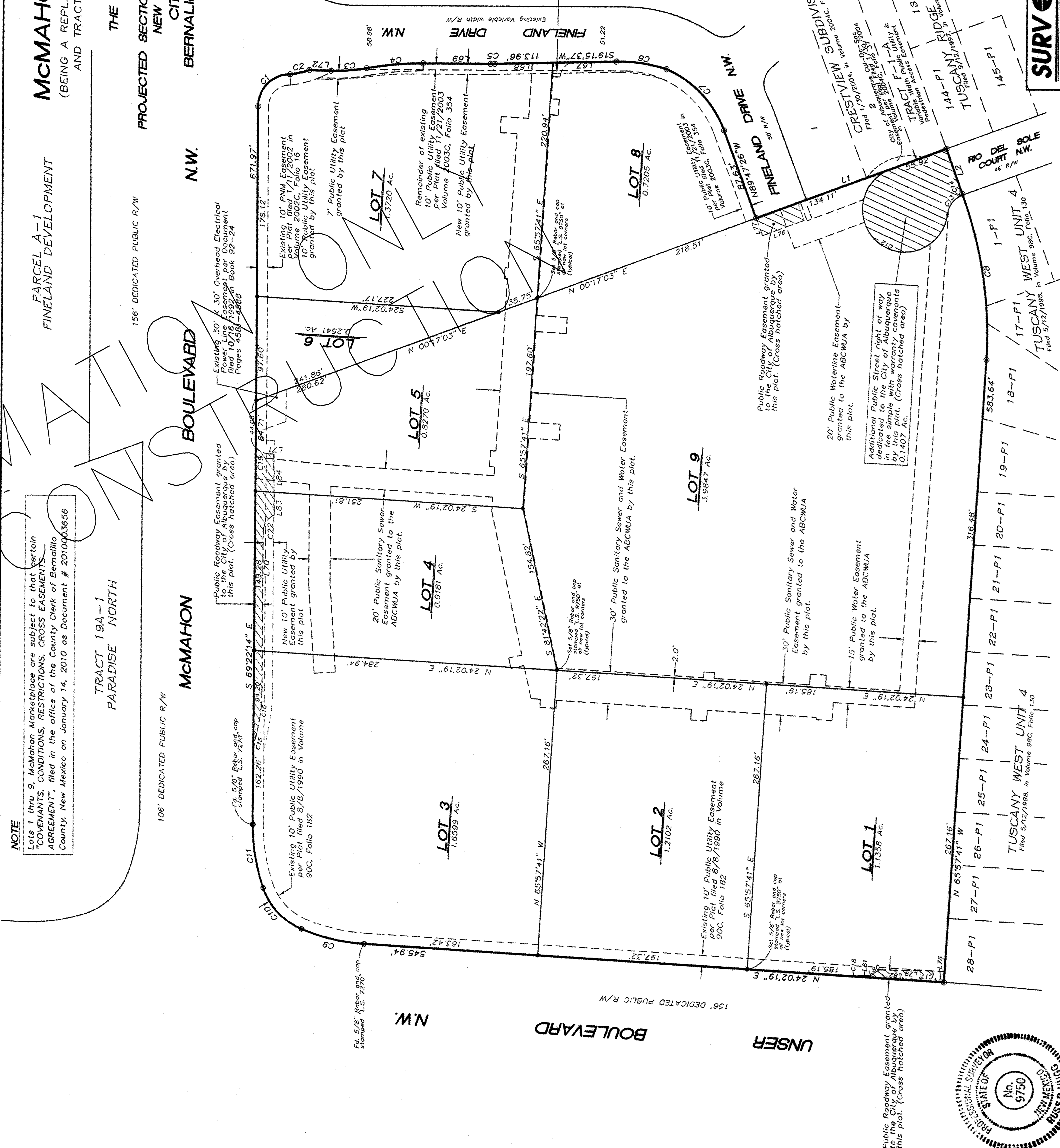
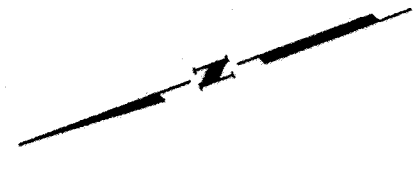
- NOTES:**
- See Sheet 5 for Easement Details
 - See sheet 6 for Line and Curve Tables

PROPERTY CORNER LEGEND

- = Fd. 5/8" Rebar and cap stamped "L.S. 7270"
- ⊙ = Set 5/8" Rebar and cap stamped "L.S. 9750"

Existing Public Roadway Easement granted to the City of Albuquerque in Plat Book 2008C, Page 192

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Tolous Oliver, Bernalillo Co



SHEET 4 OF 6

SURV-TEK, INC.

Consulting Surveyors
8904 Valley View Drive, N.W. Albuquerque, New Mexico 87114 Phone: 505-897-3366
Fax: 505-897-3377

PARADISE NORTH

McMAHON MARKETPLACE
(BEING A REPLAT OF TRACT 16A-1, PARADISE NORTH
AND TRACT E-1-A-1, CRESTVIEW SUBDIVISION)

N.W.

BOULEVARD

McMAHON

THE TOWN OF ALAMEDA GRANT
IN

PROJECTED SECTION 2, TOWNSHIP 11 NORTH, RANGE 2 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
FEBRUARY, 2009

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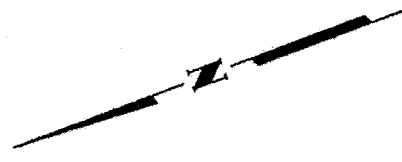
20' Public Utility Easement
granted by this plat.

PUBLIC SANITARY SEWER AND
WATERLINE EASEMENT DETAILS

PROPERTY CORNER LEGEND

○ = 5/8" Rebar and cap stamped "L.S. 7270"

● = 5/8" Rebar and cap stamped "L.S. 9750"



SHEET 5 OF 6

SURV+TEK, INC.
Consulting Surveyors

5984 Valley View Drive, N.W., Albuquerque, New Mexico 87114
Phone: 505-897-3966
Fax: 505-897-3977

CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING
C1	47.18'	30.00'	30.05'	52°24'44"E
C2	18.46'	77.37'	9.27'	507°53'41"W
C3	33.47'	159.00'	16.80'	516°08'49"W
C4	53.42'	291.00'	26.78'	515°22'31"W
C5	4.10'	171.50'	2.05'	519°56'38"W
C6	47.87'	141.04'	24.17'	528°58'54"W
C7	80.79'	100.00'	42.75'	567°03'48"W
C8	158.22'	380.00'	80.27'	578°08'44"W
C9	60.81'	180.00'	30.70'	583°34'00"E
C10	54.32'	160.00'	28.86'	579°02'55"E
C11	60.81'	180.00'	30.70'	583°34'00"E
C12	169.75'	40.00'	65.08'	587°02'51"W
C13	24.25'	22.00'	13.52'	581°18'07"W
C14	1.30'	31.301.99'	0.65'	589°58'35"E
C15	19.38'	150.47'	9.71'	595°18'25"W
C16	36.50'	152.62'	18.33'	562°45'42"E
C17	11.34'	24.00'	5.78'	587°02'51"W
C18	12.93'	55.50'	6.50'	581°18'07"E
C19	13.50'	17.38'	7.11'	546°17'40"W

LINE TABLE		
LINE	LENGTH	BEARING
L1	90.03'	S00°07'13"W
L2	44.70'	N88°54'57"W
L3	16.56'	N24°02'13"E
L4	17.80'	N65°57'41"W
L5	15.00'	N42°02'19"E
L6	20.00'	S65°57'41"E
L7	102.27'	N24°02'13"E
L8	9.99'	N65°57'41"W
L9	15.00'	N24°02'13"E
L10	9.99'	S65°57'41"E
L11	127.16'	N24°02'13"E
L12	14.49'	N65°57'41"W
L13	15.00'	N24°02'13"E
L14	2.57'	S65°57'41"E
L15	8.89'	N42°02'19"E
L16	31.60'	N81°14'46"E
L17	12.61'	N65°57'41"E
L18	10.00'	S81°14'46"E
L19	12.61'	S08°14'46"E
L20	137.26'	S81°14'46"E
L21	13.29'	S65°57'41"E
L22	152.30'	N24°02'13"E
L23	89.63'	N65°57'41"W
L24	84.28'	N73°12'28"W
L25	20.08'	N16°47'03"E
L26	83.48'	S73°16'29"E
L27	93.68'	S69°21'48"E
L28	91.13'	N26°13'17"E
L29	51.23'	S26°13'17"W
L30	153.50'	S24°03'13"W
L31	8.16'	S65°49'57"E
L32	5.00'	N24°02'19"E
L33	15.00'	S24°02'19"W
L34	5.00'	S24°02'19"W
L35	161.88'	S65°57'41"E
L36	3.00'	N24°03'13"E
L37	10.00'	S65°57'41"E
L38	3.00'	S24°03'13"W
L39	126.00'	S65°57'41"E
L40	15.72'	N24°02'19"E
L41	15.00'	S65°57'41"E
L42	25.72'	S24°02'19"W
L43	51.96'	S65°57'41"E
L44	20.06'	S19°15'31"W

LINE TABLE		
LINE	LENGTH	BEARING
L45	33.94'	N67°46'41"W
L46	7.41'	S24°02'19"W
L47	15.00'	N65°57'41"W
L48	7.41'	N24°02'19"E
L49	188.42'	N65°57'41"W
L50	28.42'	S24°02'19"W
L51	15.00'	N65°57'41"W
L52	28.42'	N24°02'19"E
L53	85.23'	N65°57'41"W
L54	28.42'	S24°02'19"W
L55	15.00'	N65°57'41"W
L56	28.42'	N24°02'19"E
L57	66.22'	N65°57'41"W
L58	137.64'	N81°14'46"W
L59	137.64'	S24°02'13"W
L60	5.49'	S65°53'36"E
L61	10.00'	S24°02'19"W
L62	5.49'	N65°53'36"W
L63	89.66'	S24°02'13"W
L64	10.01'	S65°57'41"E
L65	15.00'	S24°02'13"W
L66	109.85'	S24°02'13"W
L67	15.00'	S00°17'03"W
L68	21.10'	N89°45'54"W
L69	63.28'	S20°38'02"W
L70	23.44'	N26°13'17"E
L71	50.24'	N26°13'17"E
L72	50.24'	S22°10'38"W
L73	70.20'	S00°02'17"E
L74	38.70'	S80°05'54"E
L75	23.91'	S00°17'03"W
L76	4.41'	S00°17'03"W
L77	17.44'	S89°47'28"W
L78	6.39'	N24°02'19"E
L79	50.16'	N21°19'49"E
L80	9.83'	N14°37'16"W
L81	7.47'	N24°02'19"E
L82	83.17'	N24°02'19"E
L83	21.28'	S70°27'45"E
L84	35.72'	S70°27'45"E
L85	10.01'	N65°57'41"W
L86	69.87'	S24°02'13"W
L87	419.33'	S65°57'41"E
L88	467.39'	N65°57'41"W

DOCH 2010095126

20' Public Utility Easement
granted by this plat.

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granted by this plat.

FOR INFORMATION
CONSTRUCTION

McMAHON MARKETPLACE
(BEING A REPLAT OF TRACT 16A-1, PARADISE NORTH
AND TRACT E-1-A-1, CRESTVIEW SUBDIVISION)

WITHIN

THE TOWN OF ALAMEDA GRANT
IN

PROJECTED SECTION 2, TOWNSHIP 11 NORTH, RANGE 2 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
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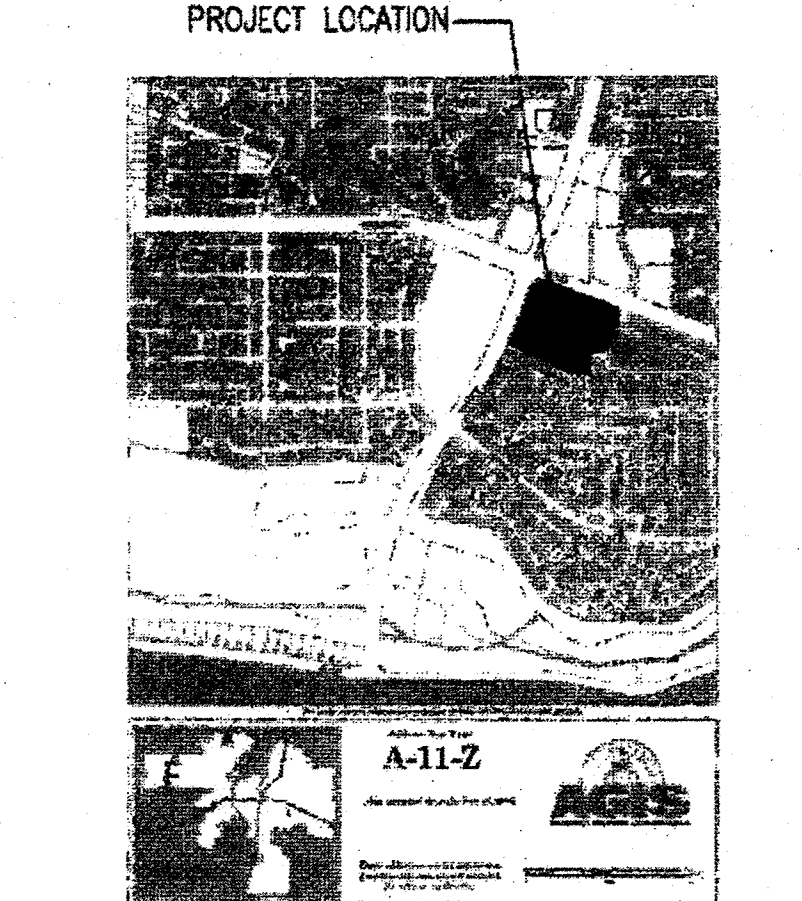
SURV+TEK, INC.
Consulting Surveyors

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Phone: 505-897-3966
Fax: 505-897-3977

LEGAL DESCRIPTION	VARIES: REFER TO DESCRIPTION BELOW								
PROPOSED TRACT NUMBER:	LOT-1	LOT-2	LOT-3	LOT-4	LOT-5	LOT-6A	LOT-7	LOT-8	LOT-9
TOTAL ACRES:	AREA= 1.14 AC	AREA= 1.2093 AC	AREA= 1.5598 AC	AREA= .9179 AC	AREA= .82 AC	AREA= .15 AC	AREA= 1.3989 AC	AREA= .72 AC	AREA= 4.12 AC
EXISTING ZONING:	VARIES: REFER TO APPLICATION PAGE								
PROPOSED ZONING:	VARIES: REFER TO APPLICATION PAGE								
BUILDING SIZE/ REQ DINING SEATS:	3,000SF/100 SEATS	5,000SF/NA	16,031SF/NA	4,000SF/90 SEATS	7,500SF/120 SEATS	7,500SF/120 SEATS	7,200SF/220 SEATS	6,300 SF/40 SEATS	30,000SF/100 SEATS
FAR:	.06	.0929	.222	.1075	.1775	INCLUDED W/ LOT-5	.1181	.20	.17
PROPOSED NUMBER OF STRUCTURES:	1	1	1	1	1	0	1	1	3
PROPOSED USE:	RESTAURANT W/ DRIVE THRU	BANK W/ DRIVE THRU	DRUG STORE	SHOPS/RETAIL-FOOD-OFFICE	SHOPS/RETAIL-FOOD-OFFICE	SHOPS/RETAIL-FOOD-OFFICE	SHOPS/RETAIL-FOOD-OFFICE	SHOPS/RETAIL-FOOD-OFFICE	SHOPS/RETAIL-FOOD-OFFICE
TOTAL PARKING PROVIDED:	24 SPACES	38 SPACES	79 SPACES	32 SPACES	33 SPACES	RELOT-5	80 SPACES	21 SPACES	178 SPACES
TOTAL PARKING REQ (INC. EMPLOYEE):	25 SPACES	25 CARS	80 SPACES	23 SPACES	58 CARS	RELOT-5	55 SPACES	37 SPACES	162 SPACES
HC PROVIDED:	2 H.C. (INC. 2 VAN ACCESSIBLE)	4 H.C. (INC. 4 VAN ACCESSIBLE)	4 H.C. (INC. 2 VAN ACCESS.)	3 H.C. (INC. 3 VAN ACCESSIBLE)	4 H.C. (INC. 4 VAN ACCESSIBLE)	RELOT-5	4 H.C. (INC. 4 VAN ACCESSIBLE)	2 H.C. (INC. 2 VAN ACCESSIBLE)	10 H.C. (INC. 10 VAN ACCESSIBLE)
HC REQUIRED:	1 H.C. SPACES	1 H.C. SPACES	4 H.C. SPACES	1 H.C. SPACES	2 H.C. SPACES	RELOT-5	4 H.C. SPACES	1 H.C. SPACES	8 H.C. SPACES
BIKE SPACES PROVIDED:	5 BIKE SPACES	5 BIKE SPACES	5 BIKE SPACES	5 BIKE SPACES	5 BIKE SPACES	RELOT-5	5 BIKE SPACES	5 BIKE SPACES	10 BIKE SPACES
BIKE SPACES REQUIRED:	2 BIKE SPACES	3 BIKE SPACES	4 BIKE SPACES	3 BIKE SPACES	3 BIKE SPACES	RELOT-5	4 BIKE SPACES	3 BIKE SPACES	9 BIKE SPACES
MOTORCYCLE SPACES PROVIDED:	2 MOTORCYCLE SPACE	2 MOTORCYCLE SPACE	3 MOTORCYCLE SPACES	2 MOTORCYCLE SPACE	3 MOTORCYCLE SPACE	RELOT-5	3 MOTORCYCLE SPACES	3 MOTORCYCLE SPACES	6 MOTORCYCLE SPACES
MOTORCYCLE SPACES REQUIRED:	1 MOTORCYCLE SPACE	1 MOTORCYCLE SPACE	3 MOTORCYCLE SPACES	2 MOTORCYCLE SPACE	3 MOTORCYCLE SPACE	RELOT-5	3 MOTORCYCLE SPACES	2 MOTORCYCLE SPACES	5 MOTORCYCLE SPACES
MAX BUILDING HT:	26' TO TOP OF PARAPET	26' TO TOP OF PARAPET	26' TO TOP OF PARAPET	26' TO TOP OF PARAPET	26' TO TOP OF PARAPET	RELOT-5	26' TO TOP OF PARAPET	26' TO TOP OF PARAPET	26' TO TOP OF PARAPET

1 SITE DATA TABLE

Scale: N.T.S.



2 VICINITY MAP

Scale: N.T.S.

PROJECT NUMBER: 1005280

APPLICATION NUMBER:

This plan is in compliance with the specific site development plan approved by the Environmental Planning Commission (EPC) on 12/13/07, and the findings and conditions in the Official Map of the City of Albuquerque are satisfied.

Is an Infrastructure Use required? () YES () NO If yes, then a set of approved DMS plans with a work order is required for any construction within Public Right-of-Way or for construction of public improvements.

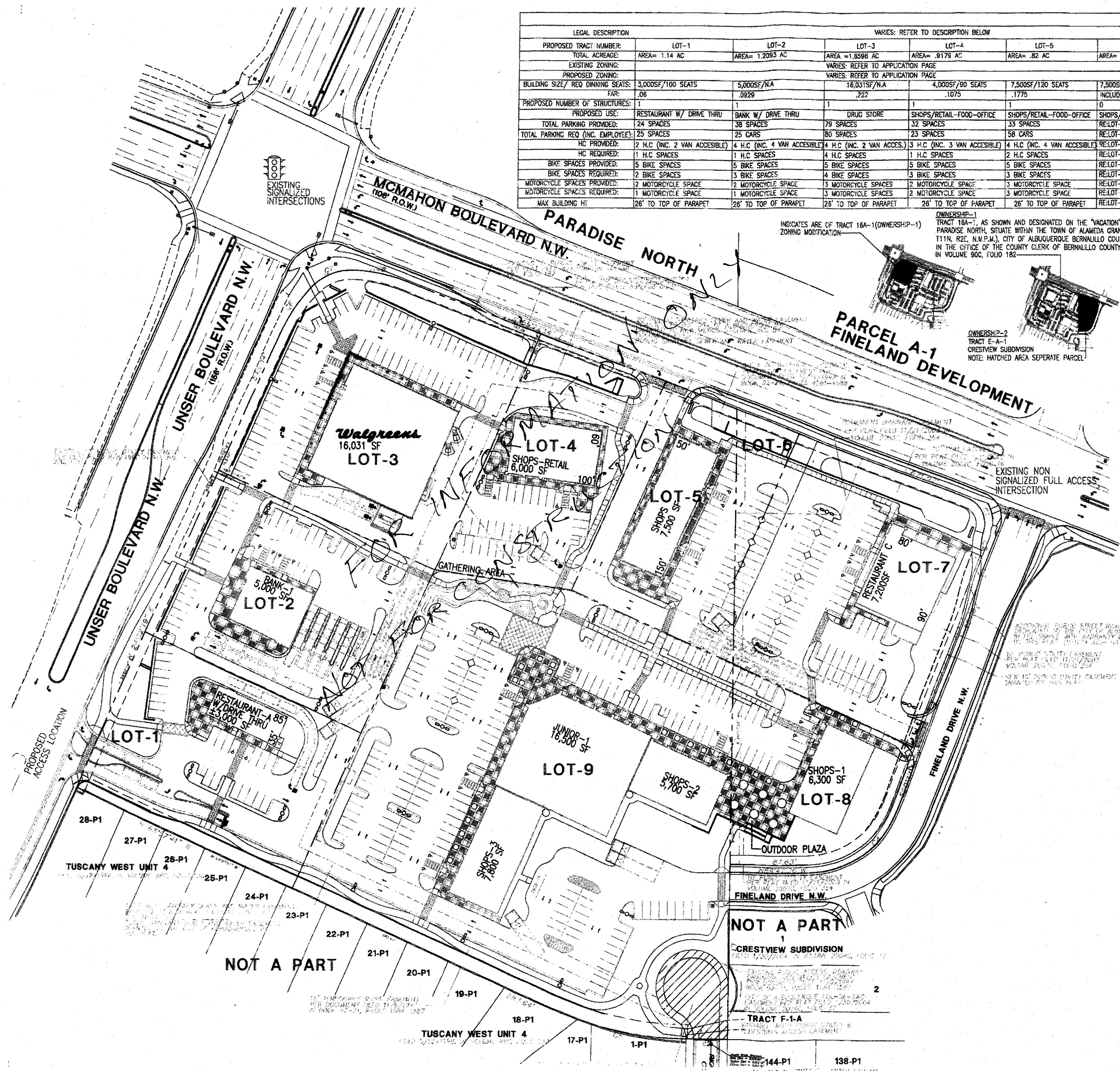
DRG SITE DEVELOPMENT PLAN SIGNOFF APPROVAL

Traffic Engineering	08-08-07
Transportation Division	08-08-07
Water Utility Department	08-08-07
Christina Sandoval	08-08-07
Parks and Recreation Department	08-08-07
Betty L. Bish	08-08-07
City Engineer	08-08-07
Environmental Health Department	08-08-07
John W. Winters	08-08-07
Public Works Department	08-08-07
DRG Chairperson, Planning Department	08-08-07
Catalina Schreiner	08-08-07

* Environmental Health, if necessary

SITE PLAN FOR SUBDIVISION

Scale: 1"=50'-0"



REV	DATE	BY	REVISION
1	7/9/07	3	ONE COMMENTS
2	7/28/07	5	CITY COMMENTS
3	7/25/07	5	CHANGING SPACE ADDITION
4	7/25/07	5	REV SUBMITAL

GEORGE RANHART ARCHITECT AND ASSOCIATES PC
2325 SAN PEDRO N.E. SUITE 2-B
ALBUQUERQUE, NEW MEXICO 87110
PHONE (505) 884-9110 FAX (505) 837-9877

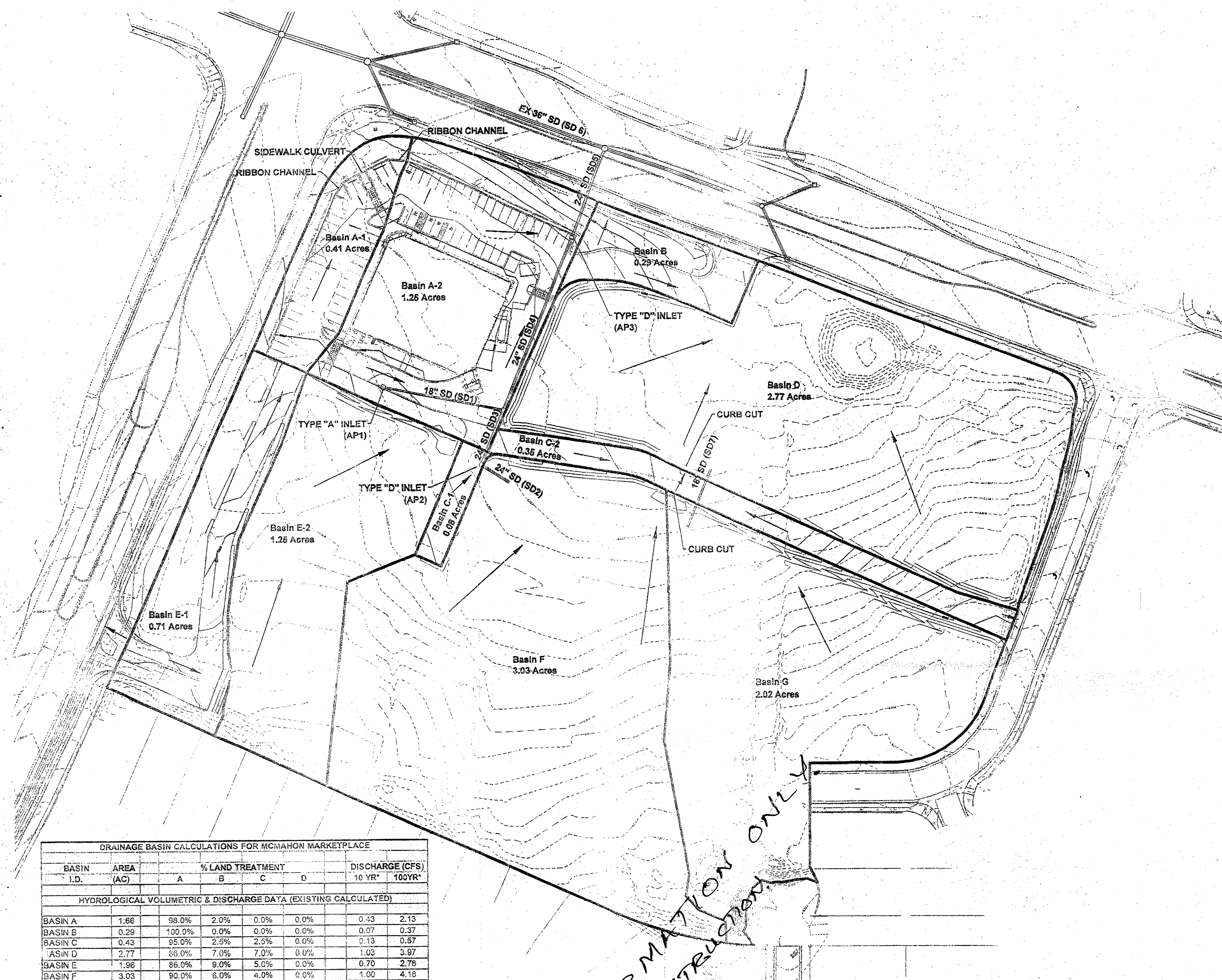
PROJECT TITLE: MCMAHON MARKET PLACE
S.E.C. OF UNSER AND MCMAHON
ALBUQUERQUE NEW MEXICO

PROJECT MANAGER: STEPHEN DUNBAR AV. JOB NO. 0670 DRAWN BY: S

SHEET TITLE: SITE PLAN FOR SUBDIVISION

DATE: 12/6/06 sheet: A1.1

SCALE: 1"=50' 0"



DRAINAGE BASIN CALCULATIONS FOR MCMAHON MARKETPLACE									
BASIN I.D.	AREA (AC)	% LAND TREATMENT				DISCHARGE (CFS)			
		A	B	C	D	10 YR*	100YR*		
HYDROLOGICAL VOLUMETRIC & DISCHARGE DATA (EXISTING CALCULATED)									
BASIN A	1.66	98.0%	2.0%	0.0%	0.0%	0.43	2.13		
BASIN B	0.29	100.0%	0.0%	0.0%	0.0%	0.07	0.37		
BASIN C	0.43	95.0%	2.5%	2.5%	0.0%	0.13	0.57		
BASIN D	2.77	66.0%	7.0%	7.0%	0.0%	1.03	3.97		
BASIN E	1.96	86.0%	9.0%	5.0%	0.0%	0.70	2.78		
BASIN F	3.03	90.0%	6.0%	4.0%	0.0%	1.00	4.18		
BASIN G	2.02	90.0%	3.0%	7.0%	0.0%	0.71	2.83		
TOTAL	12.16					4.08	16.83		
HYDROLOGICAL VOLUMETRIC & DISCHARGE DATA (DEVELOPED) INTERIM									
BASIN A-1	0.41	0.0%	5.0%	10.0%	85.0%	1.08	1.68		
BASIN A-2	1.25	0.0%	5.0%	10.0%	85.0%	3.30	5.13		
BASIN B	0.29	0.0%	0.0%	33.0%	67.0%	0.70	1.12		
BASIN C-1	0.08	0.0%	0.0%	0.0%	100.0%	0.23	0.35		
BASIN C-2	0.35	0.0%	0.0%	0.0%	100.0%	1.01	1.53		
SUBTOTAL DEVELOPED ON SITE							9.81		
BASIN D	2.77	86.0%	7.0%	7.0%	0.0%	1.03	3.97		
BASIN E-1	0.71	56.0%	9.0%	5.0%	30.0%	0.62	1.67		
BASIN E-2	1.25	90.0%	6.0%	4.0%	0.0%	0.41	1.72		
BASIN F	3.03	90.0%	6.0%	4.0%	0.0%	1.00	4.18		
BASIN G	2.02	90.0%	3.0%	7.0%	0.0%	0.71	2.83		
SUBTOTAL	12.16					10.30	24.2		
FULLY DEVELOPED									
BASIN A-1	0.41	0.0%	5.0%	10.0%	85.0%	1.08	1.68		
BASIN A-2	1.25	0.0%	5.0%	10.0%	85.0%	3.30	5.13		
BASIN B	0.29	0.0%	0.0%	33.0%	67.0%	0.70	1.12		
BASIN C	0.43	0.0%	0.0%	0.0%	100.0%	1.24	1.88		
BASIN D	2.77	0.0%	5.0%	10.0%	85.0%	7.31	11.37		
BASIN E-1	0.71	0.0%	5.0%	10.0%	85.0%	1.87	2.91		
BASIN E-2	1.25	0.0%	5.0%	10.0%	85.0%	3.30	5.13		
BASIN F	3.03	0.0%	5.0%	10.0%	85.0%	8.00	12.43		
BASIN G	2.02	0.0%	5.0%	10.0%	85.0%	5.33	8.29		
SUBTOTAL	12.16					32.15	49.9		

*NOTE: Peak Discharge calculated from Chapter 22 Section 2 of the COA DPM.

McMAHON MARKETPLACE
DRAINAGE MANAGEMENT PLAN
ALBUQUERQUE, NEW MEXICO
MARCH, 2010

DRAINAGE MANAGEMENT PLAN

- I. PURPOSE
The purpose of this submittal is to present the grading and drainage management plan for McMahon Marketplace. The project consists of approximately 12.16 acres of land to be developed for commercial use.
- II. SITE LOCATION AND CHARACTERISTICS
The project is south of McMahon Blvd and north of Tuscany West Unit 4 and bordered to the west by Unser Blvd and to the east by Fineland Drive. The site is currently undeveloped tracts, with native shrubs and grasses.
- III. EXISTING HYDRAULIC AND HYDROLOGIC CONDITIONS
In the existing conditions, the site drains across moderately sloped terrain towards the north. Currently the westerly portion of the site discharges directly to McMahon and Unser, while the easterly portion discharges to an existing pond located on the east half of the site. The runoff then flows north on Unser and west on McMahon which ultimately is captured by inlet upstream of the intersection. The flow is then carried north within the Unser storm drain to the Black Arroyo Blvd storm drain system and ultimately to the Black Arroyo.

A Master Drainage Study for the Unser/ McMahon Area was prepared by Bohannon Huston, dated July 17, 2001 and revised November 13, 2001, analyzes the entire basin area discharging to the Black Arroyo Blvd storm drain system. That report also addresses this site specifically. The proposed McMahon Marketplace is described in the report as Basin DC2 and allows full discharge (Q₁₀₀= 41.55cfs) into McMahon.

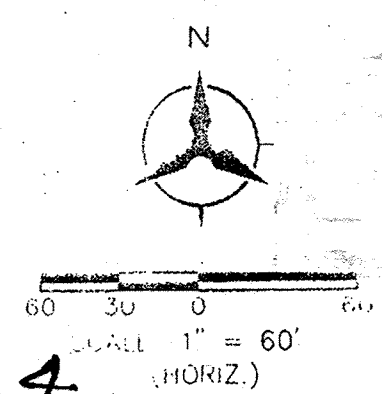
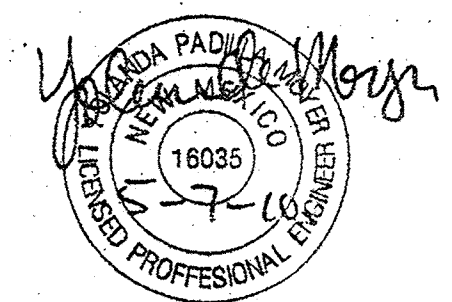
IV. INTERIM HYDRAULIC AND HYDROLOGIC CONDITIONS
In the interim conditions, the only portion of the site which will be developed is the northwest corner. A CVS Drugstore in proposed at this location. Basin A, B, C1, C2 and E-1 are the only part of the site which will be developed at this time. Basin A is the CVS site, Basin B is the entrance off of McMahon and Basins C and Basin E are the access roads off of Fineland and Unser. Basin A (Q₁₀₀=6.81cfs) drains toward and is collected at the northeast corner of the basin by a Type "D" inlet which is connect to the main storm drain line in McMahon Blvd. Basin B (Q₁₀₀=1.12cfs) discharges directly in McMahon Blvd where is collected by existing inlets downstream. Basin C-1 (Q₁₀₀=0.35cfs) discharges north to the lowpoint located at the southeast corner of the CVS site where it is collect by a Type "A" inlet and conveyed north via at 24" storm drain which connects to the same above mentioned storm drain in McMahon. Basin C-2 (Q₁₀₀=1.53cfs) is conveyed to a lowpoint with curb cuts and discharges in Basin D and follows existing drainage patterns into McMahon Blvd where it will be collect by existing inlets downstream. Basin E-1 (Q₁₀₀=1.67cfs) will discharge north and combine with Basin A-1 (Q₁₀₀=1.68cfs) where the combined flow will be carried downstream to the Type "D" inlet on the northeast corner of the site via a 2" ribbon channel a sidewalk culvert. Basin E-2 (Q₁₀₀=1.72cfs) discharges to a desiltation pond located at the northeast corner of the site where it will discharge via curb cut to same lowpoint, inlet and manner as Basin C-2. Basin D (Q₁₀₀=3.97cfs) is undeveloped therefore the existing drainage patterns will not be changed. The westerly portion discharges directly into McMahon and the easterly portion discharges into an existing retention pond. Basin F (Q₁₀₀=4.18cfs) discharges to a desiltation pond located south of lowpoint within Basin C-2. Basin G (Q₁₀₀=2.83cfs) flows to a swale where it is diverted west to the same desiltation pond from Basin F. Both Basin F and combine with Basin C and a portion of Basin D where they follow existing drainage patterns and discharge in McMahon Blvd. The total discharge from the interim site is Q₁₀₀=24.5cfs which is well below the allowable discharge of 41.55cfs.

V. FULLY DEVELOPED HYDRAULIC AND HYDROLOGIC CONDITIONS
In the ultimate conditions, the total McMahon Market place discharges a 100-yr. 6-hour flow of 49.9cfs. The total discharge allowed from the Master Drainage Study for the Unser/McMahon Area is 41.55cfs. The total flow was based a land treatment type of 0% A, 5% B, 10% C and 85% D. The future development can either create a pond to restrict the flow to the 41.55cfs or modify the amount of landscaping to reduce the amount of Land Treatment Type "D" to reduce the runoff from 49.9cfs to 41.55cfs. The storm drain pipe being constructed with the interim plan have been sized to accommodate future flow, however a second storm drain connection to the McMahon storm drain maybe necessary to discharge a future runoff.

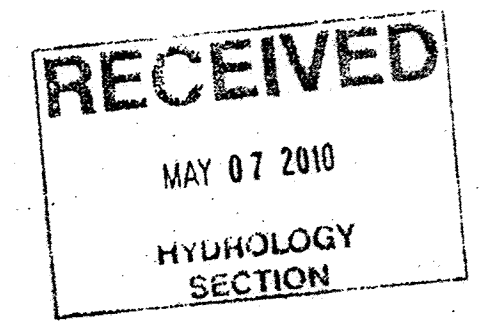
VI. CONCLUSION
This plan provides hydrologic and hydraulic considerations for McMahon Marketplace. These flows can be safely conveyed by the improvements proposed in this plan to the existing storm systems, which have adequate capacity to accept such runoff. With the exception of the approximate 8cfs difference in the total developed flow and the allowable discharge in McMahon as stated above. This information provides adequate supporting documentation and guidance for approval of this plan.

FULLY DEVELOPED CONDITIONS FOR INLETS IN MCMAHON MARKETPLACE						
	INLET	CONDITION	TYPE	FLOW TO INLET (100-YR)	STREET DEPTH (FT.)	GRATE CAP. (cfs)
AP1	1	ON 0.60% GRADE	"A" Double Grate	2.00	0.20	7.90
AP2	2	SUMP	"A" Single Grate	5.38	0.25	6.65
AP3	3	ON 5.35% GRADL	"D" Single Grate	7.82	0.33	9.48

STORM DRAIN ANALYSIS						
PIPE NO.	SIZE/TYPE	LENGTH (ft.)	SLOPE (%)	INTERIM Q (100-YR, cfs)	ULTIMATE Q (100-YR, cfs)	PIPE CAPACITY (100-YR, CFS)
SD1	18" SD	124.00	2.51	2.00	2.00	16.64
SD2	24" SD	32.00	0.60	0.00	13.28	17.52
SD3	24" SD	50.89	1.00	5.38	18.66	22.64
SD4	24" SD	189.15	0.80	7.38	20.66	20.98
SD5	24" SD	94.25	6.18	15.20	28.48	56.24
*EXSD6	36" SD	N/A	0.92	26.20	52.55	63.97
SD7	18" SD	6.00	2.00	0.00	7.77	14.87
* EX STORM DRAIN INFO TAKEN FROM CPN 618591 SHEET 51						
Q100 FROM INLET IN MCMAHON = 11cfs						
ALLOW DISCHARGE FROM SITE = 41.55cfs						
ULTIMATE Q100 = 52.55cfs						
INTERIM = 15.20cfs + 11cfs = 26.20 cfs						

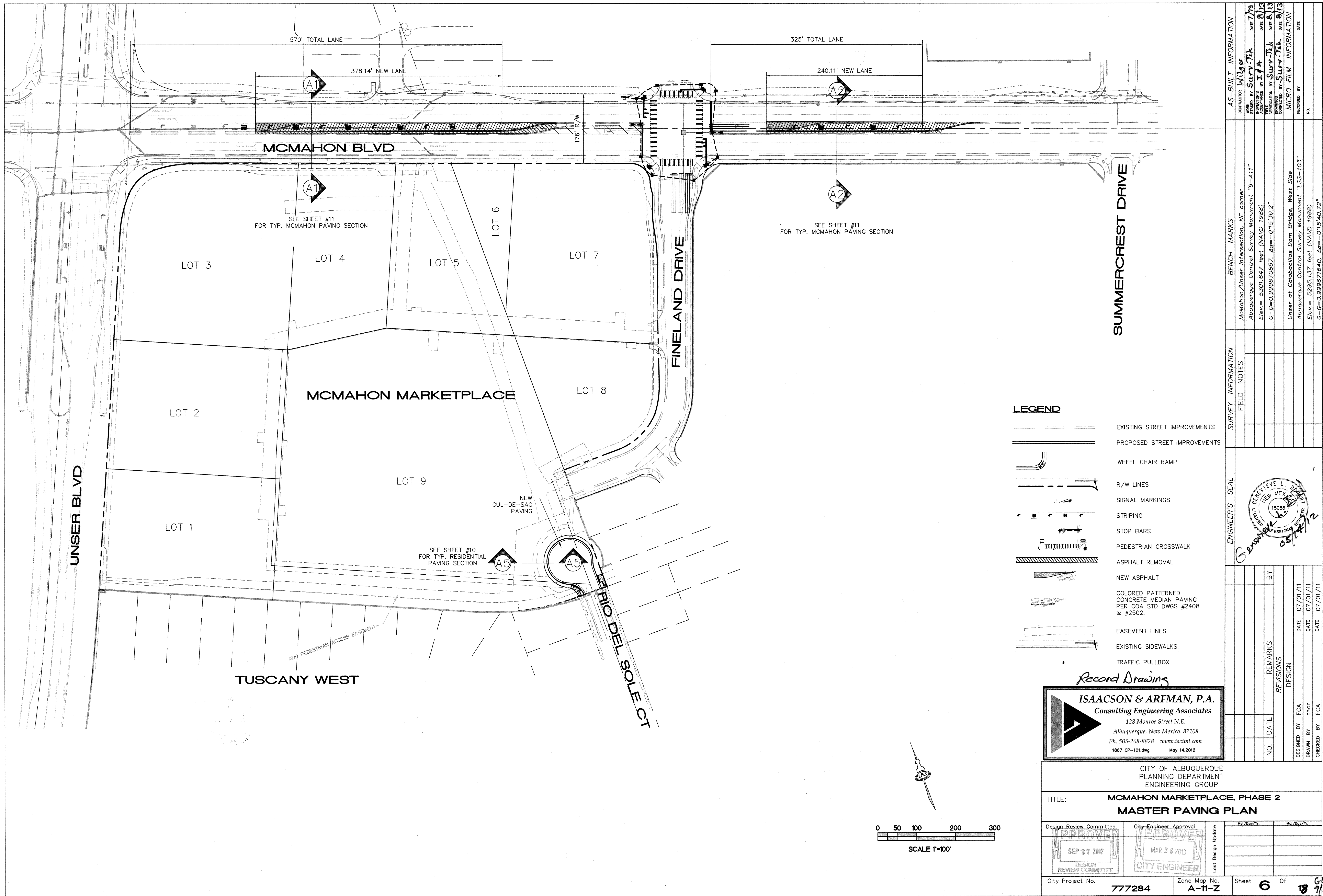


Bohannon Huston
Court yard 1 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING - SPATIAL DATA - ADVANCED TECHNOLOGIES
SHEET 5 OF 18
SHEET 1 OF 1



FOR INFO ONLY. NOT FOR CONSTRUCTION.

CPN 777284



- LEGEND**
- EXISTING STREET IMPROVEMENTS
 - PROPOSED STREET IMPROVEMENTS
 - WHEEL CHAIR RAMP
 - R/W LINES
 - SIGNAL MARKINGS
 - STRIPING
 - STOP BARS
 - PEDESTRIAN CROSSWALK
 - ASPHALT REMOVAL
 - NEW ASPHALT
 - COLOR PATTERNED CONCRETE MEDIAN PAVING PER COA STD DWGS #2408 & #2502.
 - EASEMENT LINES
 - EXISTING SIDEWALKS
 - TRAFFIC PULLBOX

Record Drawing

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 www.iaacivil.com
1867 CP-101.dwg May 14, 2012

CITY OF ALBUQUERQUE PLANNING DEPARTMENT ENGINEERING GROUP	
TITLE: McMAHON MARKETPLACE, PHASE 2 MASTER PAVING PLAN	
Design Review Committee APPROVED SEP 27 2012 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED MAR 26 2013 CITY ENGINEER
City Project No. 777284	Zone Map No. A-11-Z
Sheet 6 Of 18	GP 7/15/12

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	McMahon/Unser Intersection, NE corner	FIELD NOTES	FIELD NOTES	FIELD NOTES	ENGINEER'S SEAL	ENGINEER'S SEAL
Wigwag	7/13	Abuquerque Control Survey Monument "g-A11"					
STANDARD BY	DATE	Elev = 5301.647 feet (NAVD 1988)					
INSPECTOR'S	DATE	G-G = 0.999670957, Ag = -015'30.2"					
FIELD	DATE	Unser at Calabacillos Dam Bridge, West Side					
VERIFICATION BY	DATE	Abuquerque Control Survey Monument "LS-103"					
DATE	DATE	Elev = 5295.137 feet (NAVD 1988)					
DATE	DATE	G-G = 0.999671640, Ag = -015'40.72"					
DATE	DATE						



Elevation Datum: NAVD 88

Record Drawings

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates

128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 www.iaacivl.com
1867 CP-301.dwg May 14, 2012

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
ENGINEERING GROUP

TITLE: **MCMAHON MARKETPLACE, PHASE 2**
MCMAHON BLVD STA 10+00 TO 18+00
PAVING PLAN & PROFILE

Design Review Committee	City Engineer Approval		Mo./Day/Yr.	Mo./Day/Yr.
APPROVED SEP 27 2012 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 2013 CITY ENGINEER	Last Design Update		

City Project No.	777284	Zone Map No.	A-11-Z	Sheet	7	Of	1718
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AS-BUILT INFORMATION	
CONTRACTOR	Wilger
WORK	STAGED BY <u>Surv-Tek</u>
DATE	7/13
ACCEPTANCE BY	<u>TA A</u>
DATE	8/13
FIELD	VERIFICATION BY <u>Surv-Tek</u>
DATE	8/13
CORRECTED BY	<u>Surv-Tek</u>
DATE	8/13
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH	MARKS
	Makohon/User Intersection, NE corner
	Abuqueque Control Survey Monument "g-A11"
	Elev.= 5301.647 feet (NAVD 1988)
	G-G=0.999670857, Az=+015°30.2"
	User at Colabacillas Dam Bridge, West Side
	Abuqueque Control Survey Monument "S5-103"
	Elev.= 5295.137 feet (NAVD 1988)
	G-G=0.999671640, Az=+015°10.72"

[illegible]

ENGINEER'S SEAL



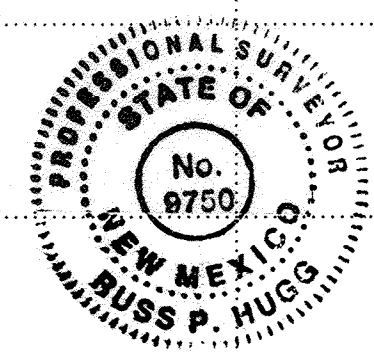
Genevieve L. Domari
05/17/12

[illegible]

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
8.20 2013



LP STA: 14+60.00
LP ELEV: 5297.60
PVI STA: 14+00.00
PVI ELEV: 5297.90
K: 115.44
120.00' LT

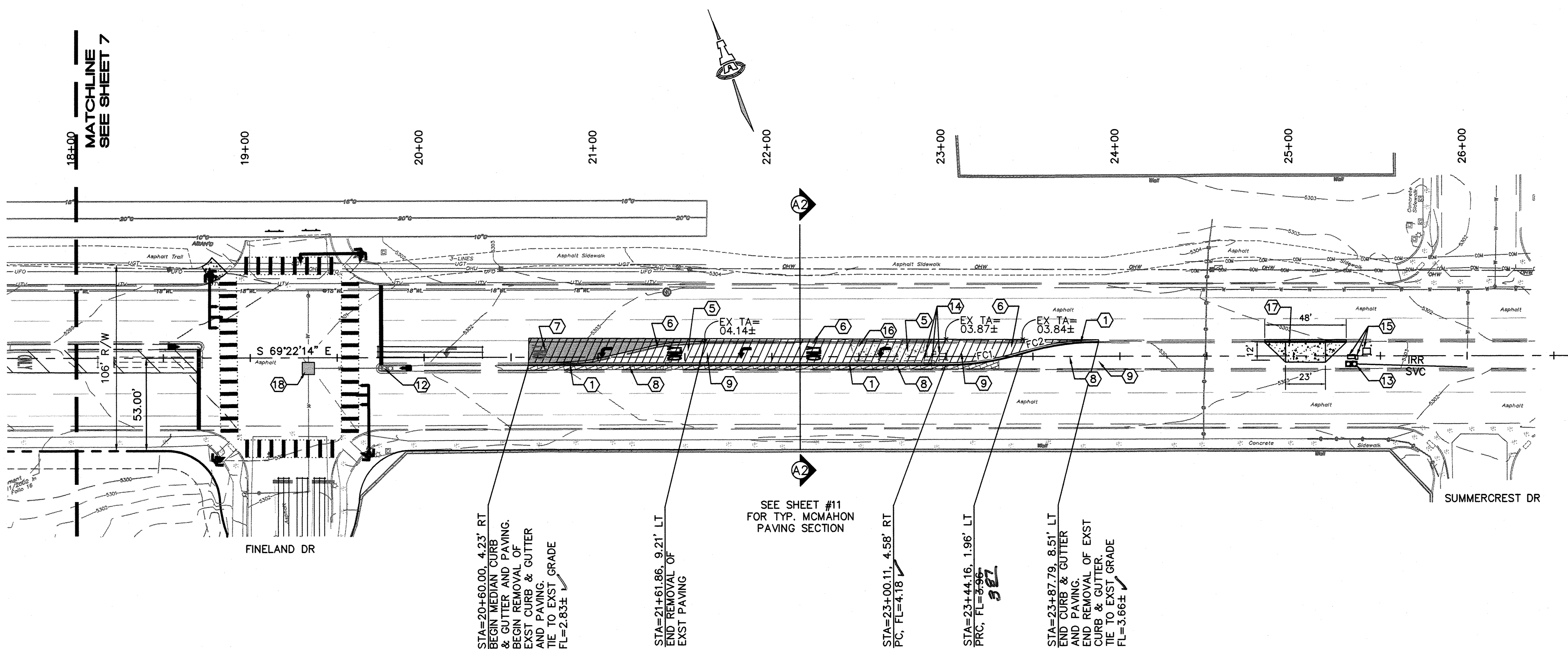
LP STA: 15+48.82
LP ELEV: 5297.30
PVI STA: 15+50.00
PVI ELEV: 5297.15
K: 117.65
120.00' LT

LP STA: 16+66.27
LP ELEV: 5297.75
PVI STA: 16+96.27
PVI ELEV: 5297.90
K: 86.88
60.00' LT

$$\frac{17+38.07}{FL}=5298.40 \pm$$

T: 17+26.27
 EV: 5298.26

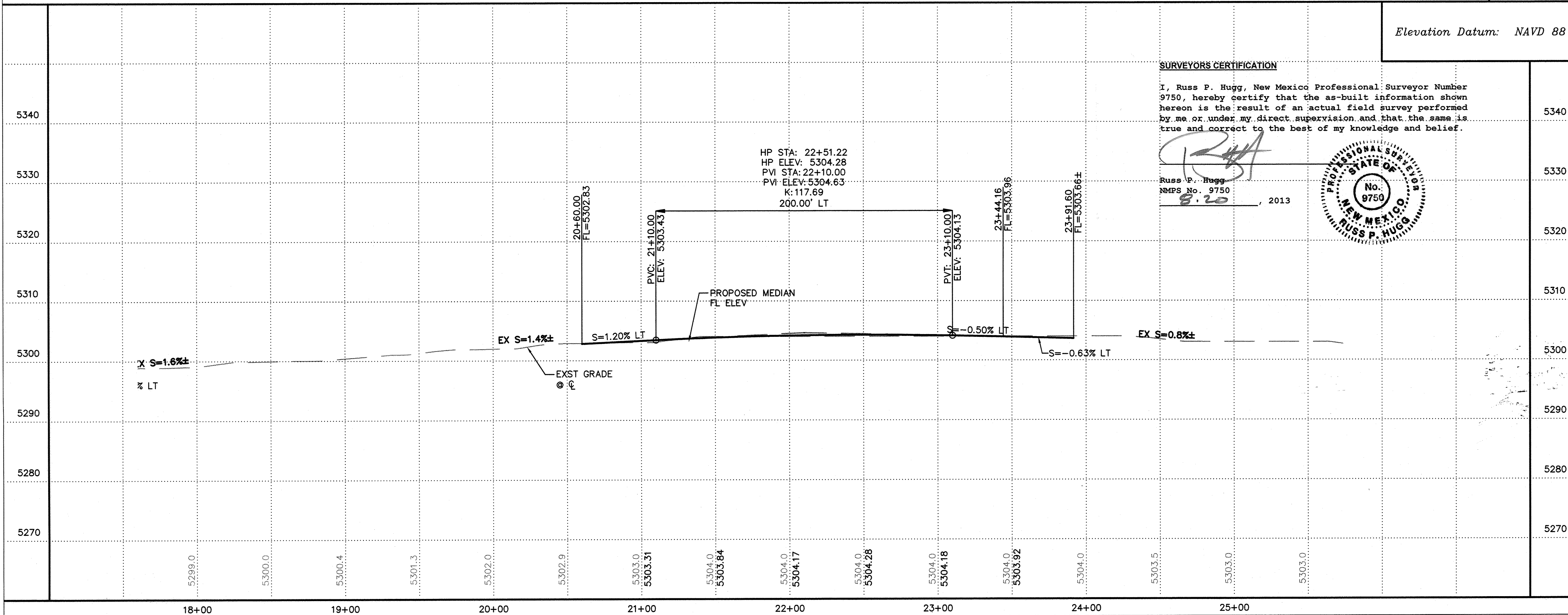
.....



MCMAHON BLVD

SCALES:
1"=40' HOR.
1"=10' VERT.

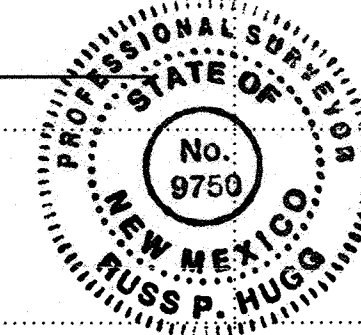
Elevation Datum: NAVD 88



SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPs No. 9750
8.20, 2013



FACE OF CURB CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
FC1	44.69'	150.00'	17°04'18"
FC2	44.29'	150.00'	16°55'00"

Record Drawing
ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 www.iacivil.com
1887 CP-302.dwg Sep 04, 2012

KEYED CONSTRUCTION NOTES

- MEDIAN CURB & GUTTER PER COA STD DWG #2415B.
- NOT USED.
- NOT USED.
- NOT USED.
- ARTERIAL PAVING PER SECTION ON SHEET 10.
- REMOVE & DISPOSE OF EXISTING CURB & GUTTER. NEATLY SAWCUT 1" ASPHALT PAVING ADJACENT TO GUTTER.
- SAWCUT, REMOVE & DISPOSE OF EXISTING ASPHALT PAVING.
- 4" THICK RED CONCRETE MEDIAN PAVING PER COA STD DWG #2408.
- REMOVE & DISPOSE OF EXISTING LANDSCAPING. CUT AND CAP EXISTING IRRIGATION PIPING. REMOVE ABANDONED LINES.
- REMOVE & DISPOSE OF EXISTING ASPHALT TRAIL.
- REMOVE & DISPOSE OF EXISTING WHEELCHAIR RAMP.
- EXISTING METER BOX AND METER TO BE RELOCATED. SEE NOTE 13. SHUT OFF CORP STOP AT WATER MAIN AND PULL THE SERVICE LINE.
- PROPOSED METER LOCATION. TIE TO 8" WL IN SUMMERCREST DRIVE. MATCH EXISTING METER SIZE. INSTALL METER PER COA STD DWG #2367.
- EXISTING BOOSTER PUMP, BACK FLOW PREVENTER, AND MASTER VALVE ASSEMBLY FOR IRRIGATION TO BE RELOCATED PER IRRIGATION PLANS ON SHEET 18.
- NEW BOOSTER PUMP, BACK FLOW PREVENTER, AND MASTER VALVE ASSEMBLY LOCATION. SEE IRRIGATION PLANS ON SHEET 18.
- EXISTING LANDSCAPING PULL OUT TO BE REMOVED.
- INSTALL NEW LANDSCAPING PULL OUT. 23'X12'X6" THICK PCC PARKING PAD AREA WITH 12" FLARES EACH SIDE. SLOPE AT 2% TO DRAIN. REPLACE EXST MEDIAN CURB WITH MOUNTABLE CURB PER COA STD DWG #2415A.
- REMOVE & REPLACE EXISTING PAVING PER COA STD DWG #2465 (ARTERIAL).

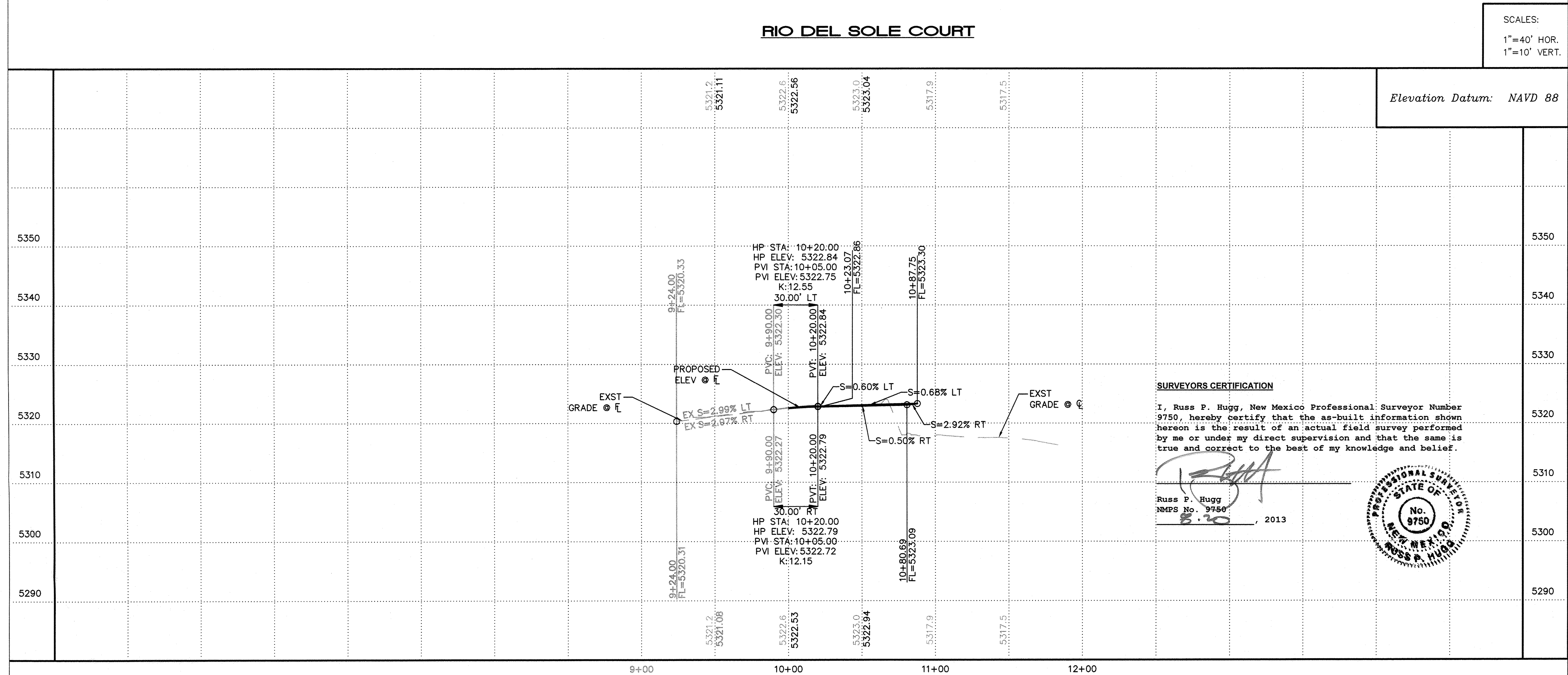
AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	Wrigley	McMahon/Under Intersection, NE corner		FIELD NOTES			
DATE	7/13	Abuquerque Control Survey Monument "9-A11"					
INSPECTOR	Surf-Tek	Elev= 5301.647 feet (NAVD 1988)				REMARKS	BY
DATE	7/13	G-G=0.999670857, Δg=-0°15'30.2"				NO.	DATE
FIELD	Surf-Tek					DESIGN	DATE
VERIFICATION	Surf-Tek					DESIGNED BY	DATE
CORRECTED	Surf-Tek					DRAWN BY	DATE
DATE	8/13	Under at Calabacillos Dam Bridge, West Side				CHECKED BY	DATE
DATE	8/13	Abuquerque Control Survey Monument "LSS-103"					
DATE	8/13	Elev= 5295.137 feet (NAVD 1988)					
DATE	8/13	G-G=0.999671640, Δg=-0°15'40.72"					

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
ENGINEERING GROUP

**TITLE: MCMAHON MARKETPLACE, PHASE 2
MCMAHON BLVD STA 18+00 TO END
PAVING PLAN & PROFILE**

Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
SEP 27 2012	OCT 26 2012		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

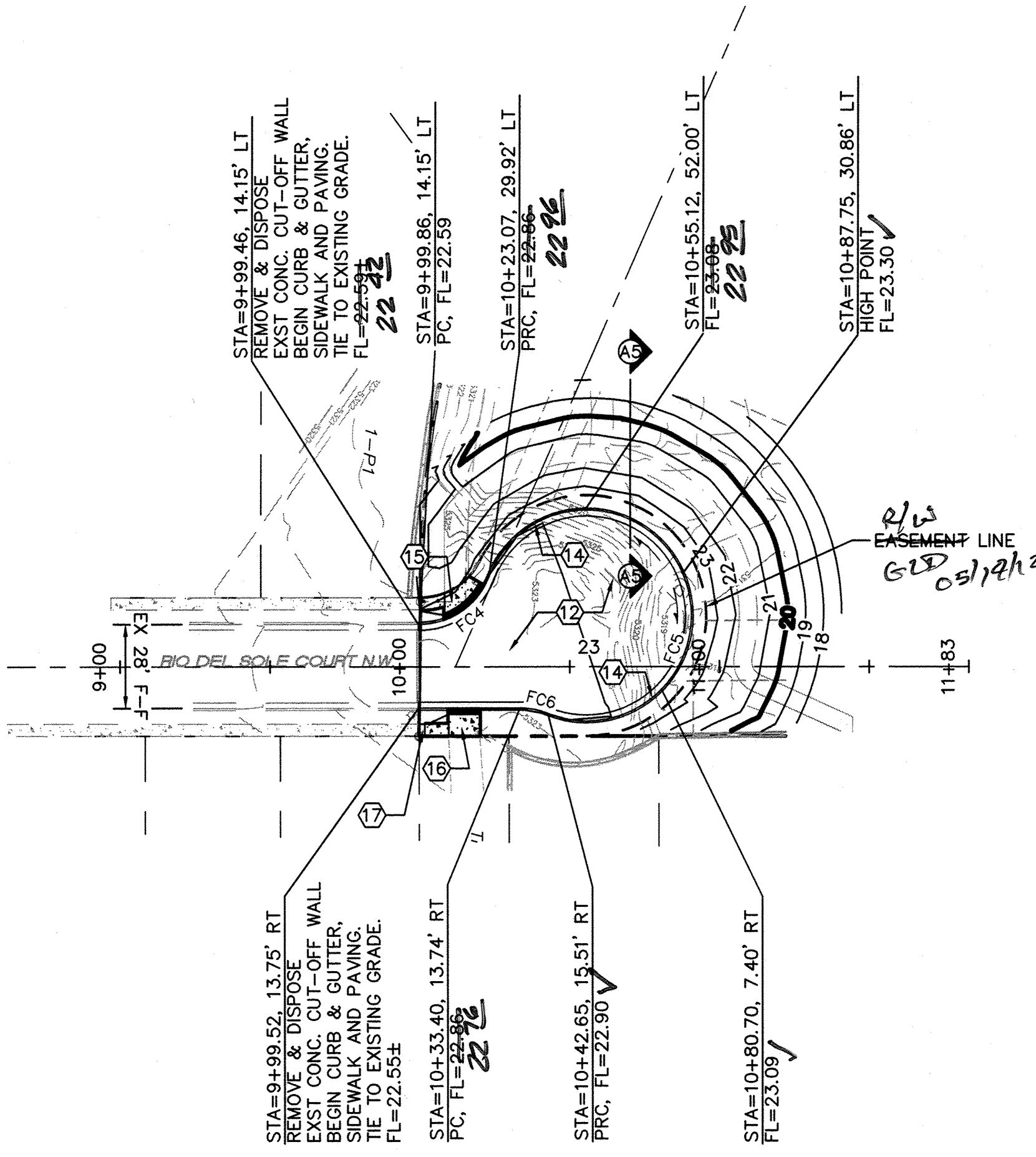
City Project No. **777284** Zone Map No. **A-11-Z** Sheet **8** Of **18**



RIO DEL SOLE COURT

SCALES:
1"=40' HOR.
1"=10' VERT.

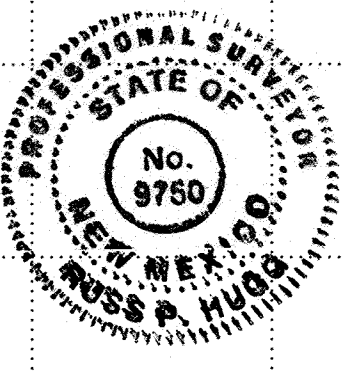
Elevation Datum: NAVD 88



SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPs No. 9750
8.20, 2013



- KEYED CONSTRUCTION NOTES**
- MEDIAN CURB & GUTTER PER COA STD DWG #2415B.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - ARTERIAL PAVING PER SECTION ON SHEET 10.
 - REMOVE & DISPOSE OF EXISTING CURB & GUTTER. NEATLY SAWCUT 1" ASPHALT PAVING ADJACENT TO GUTTER.
 - SAWCUT, REMOVE & DISPOSE OF EXISTING ASPHALT PAVING.
 - 4" THICK RED CONCRETE MEDIAN PAVING PER COA STD DWG #2408 & 2502.
 - REMOVE & DISPOSE OF EXISTING LANDSCAPING. CUT AND CAP EXISTING IRRIGATION PIPING.
 - REMOVE & DISPOSE OF EXISTING ASPHALT TRAIL.
 - REMOVE & DISPOSE OF EXISTING WHEELCHAIR RAMP.
 - RESIDENTIAL PAVING PER SECTION ON SHEET 10.
 - NOT USED.
 - STANDARD CURB & GUTTER PER COA STD DWG #2415A.
 - CONSTRUCT HANDICAP RAMP PER DETAIL C ON SHEET 11. INSTALL TRUNCATED DOMES PER ADA GUIDELINES. SUBMIT SPECS TO CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.
 - CONSTRUCT HANDICAP RAMP PER DETAIL D ON SHEET 11. INSTALL TRUNCATED DOMES PER ADA GUIDELINES. SUBMIT SPECS TO CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.
 - 4' WIDE SIDEWALK PER COA STD DWG #2430.

FACE OF CURB CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
FC4	29.80'	25.00'	68°17'43"
FC5	164.97'	35.00'	270°03'42"
FC6	9.48'	25.00'	21°43'55"

Record Drawing

ISAACSON & AREMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 www.iaacivil.com
1867 CP-303.dwg May 14, 2012

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
ENGINEERING GROUP

**TITLE: MCMAHON MARKETPLACE, PHASE 2
RIO DEL SOLE COURT
PAVING PLAN & PROFILE**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED SEP 27 2012 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 2013 CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
777284	A-11-Z	9	18

AS-BUILT INFORMATION

CONTRACTOR: N11667

DATE: 8/13

INSPECTOR: JDA

DATE: 8/13

FIELD: JDA

DATE: 8/13

VERIFICATION: JDA

DATE: 8/13

CORRECTED: JDA

DATE: 8/13

BENCH MARKS

McMahon/Unser Intersection, NE corner

Abuquerque Control Survey Monument "g-A11"

Elev= 5301.647 feet (NAVD 1988)

G-G= 0.999670657, Δg= -0°15'30.2"

Unser at Colabacillos Dam Bridge, West Side

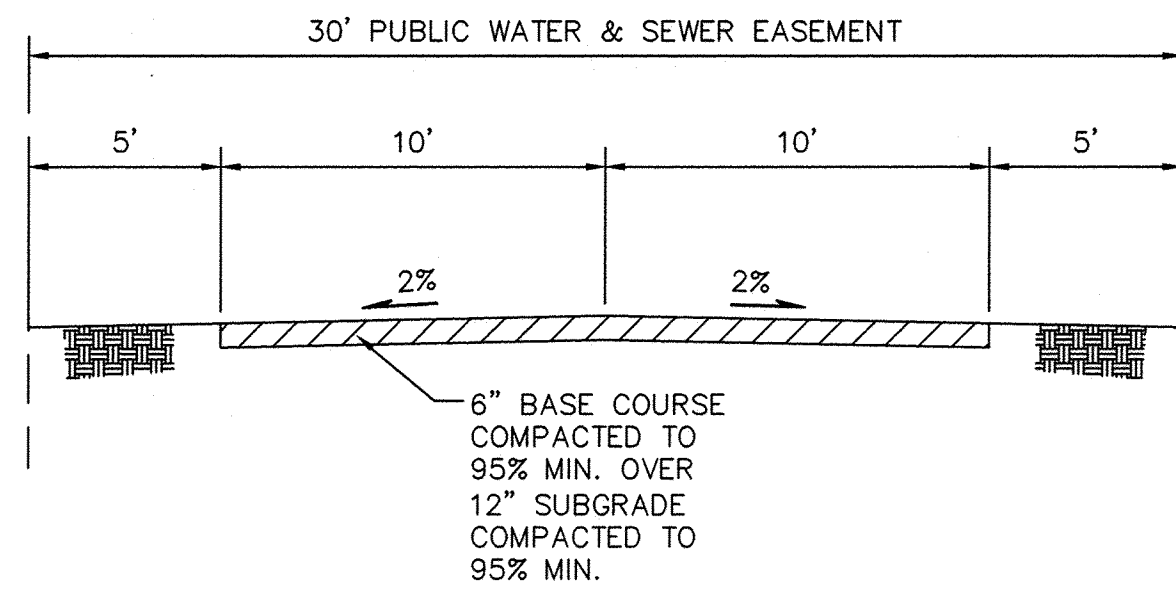
Abuquerque Control Survey Monument "LSS-103"

Elev= 5295.137 feet (NAVD 1988)

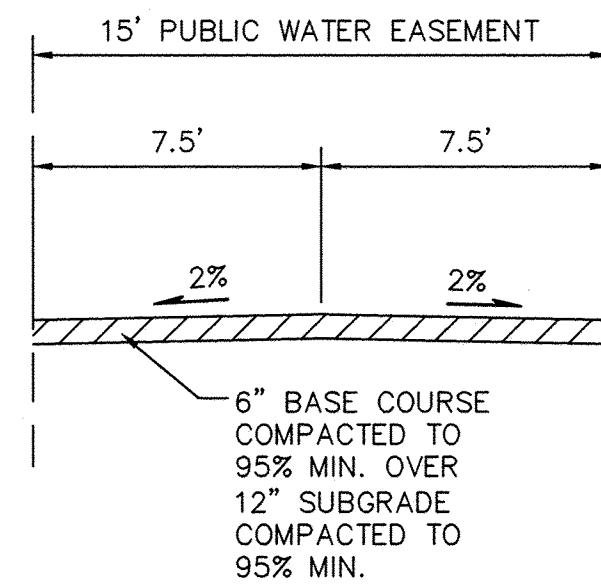
G-G= 0.999671640, Δg= -0°15'40.72"

ENGINEER'S SEAL

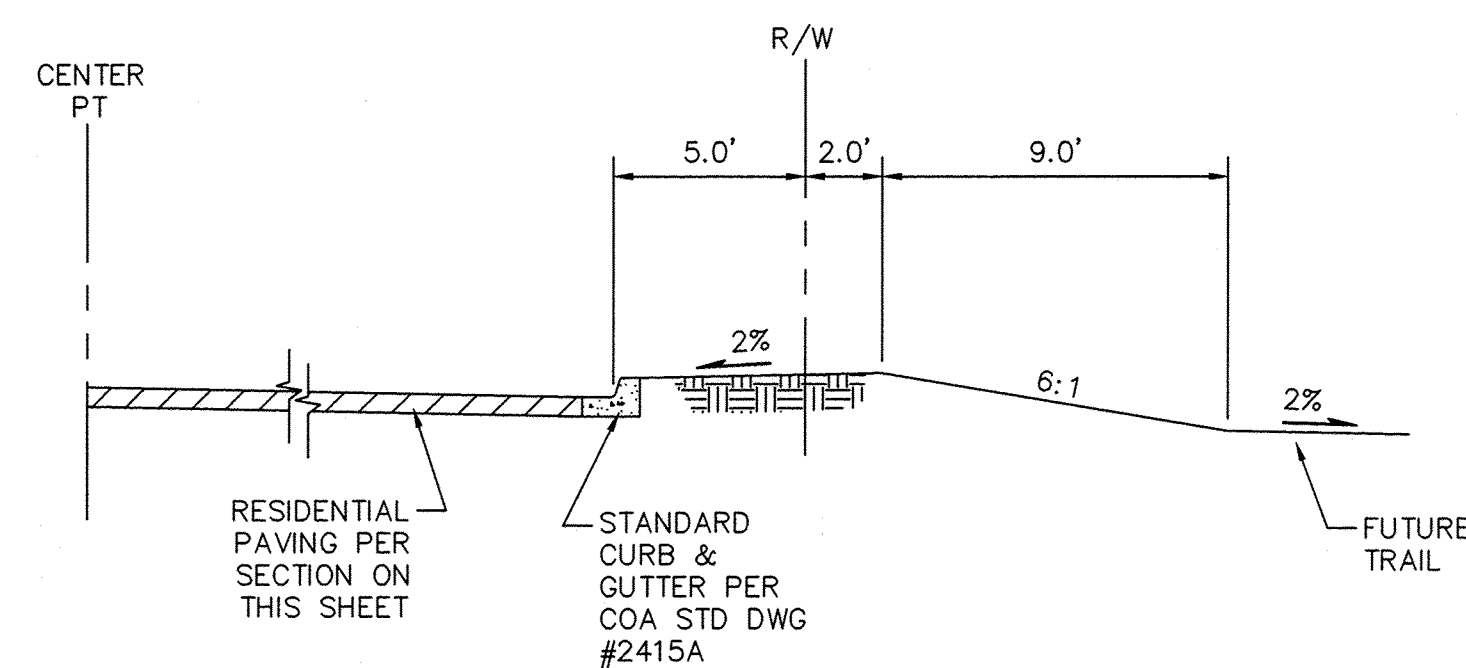
GENE L. O'NEILL
NEW MEXICO
15088
PROFESSIONAL ENGINEER



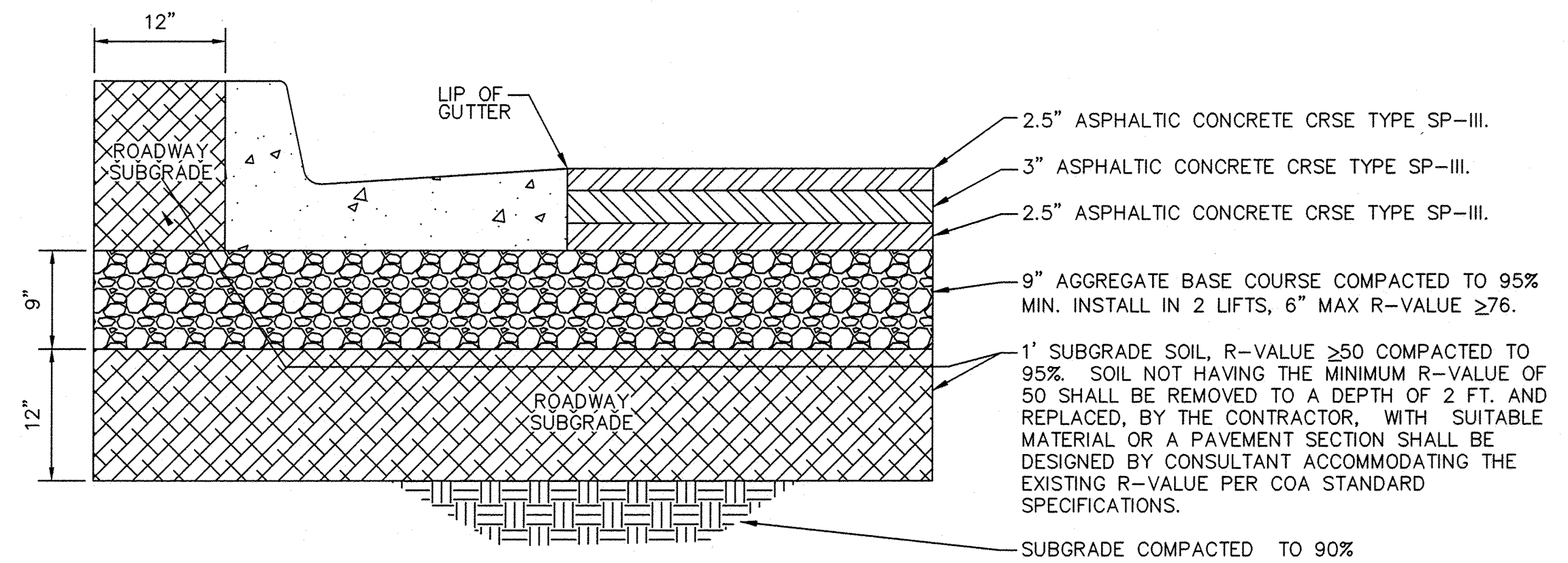
**SECTION A3
GRAVEL UTILITY ACCESS**
SCALE: 1"= 5'



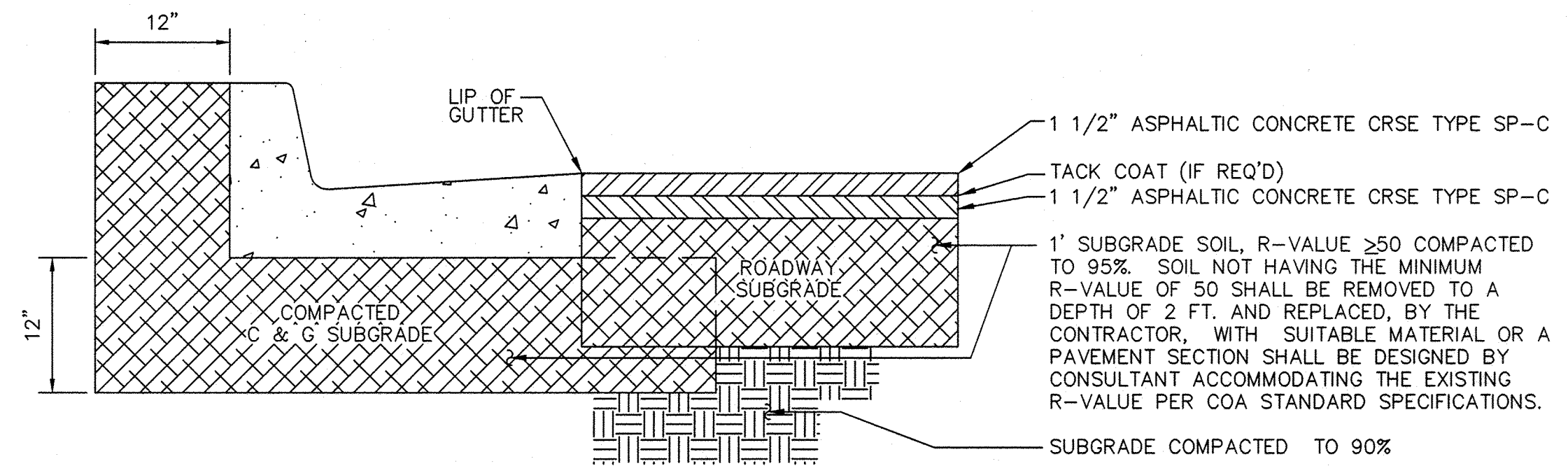
**SECTION A4
GRAVEL UTILITY ACCESS**
SCALE: 1"= 5'



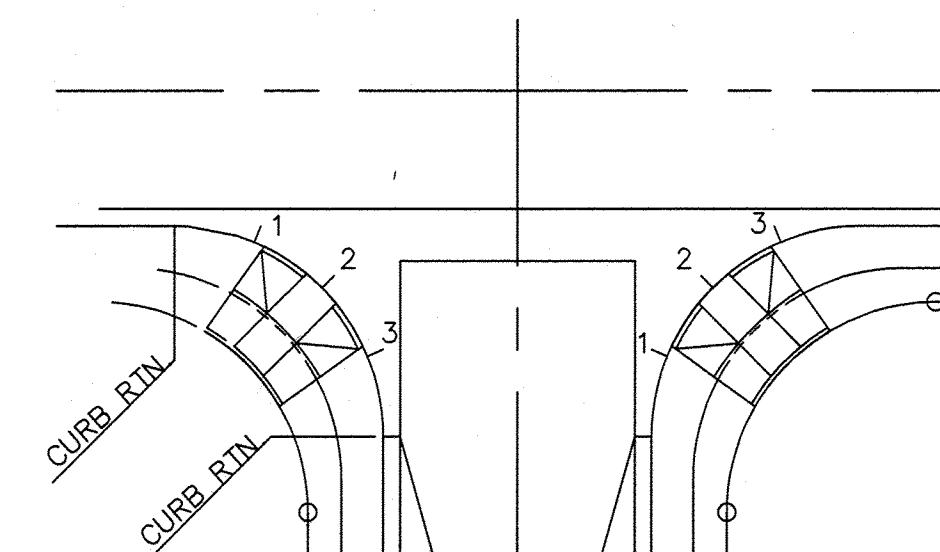
**SECTION A5
RIO DEL SOLE CT CUL-DE-SAC**
SCALE: 1"= 5'



ARTERIAL PAVING SECTION
SCALE: 1"= 1'-0"
(PER CPN # 618591)



RESIDENTIAL PAVING SECTION
SCALE: 1"= 1'-0"
(PER COA STD DWG # 2405A)



NOTE:
QUARTER POINT GRADES ARE REFERENCED AS 1, 2 & 3
ALONG THE FACE OF CURB IN A CLOCKWISE DIRECTION.

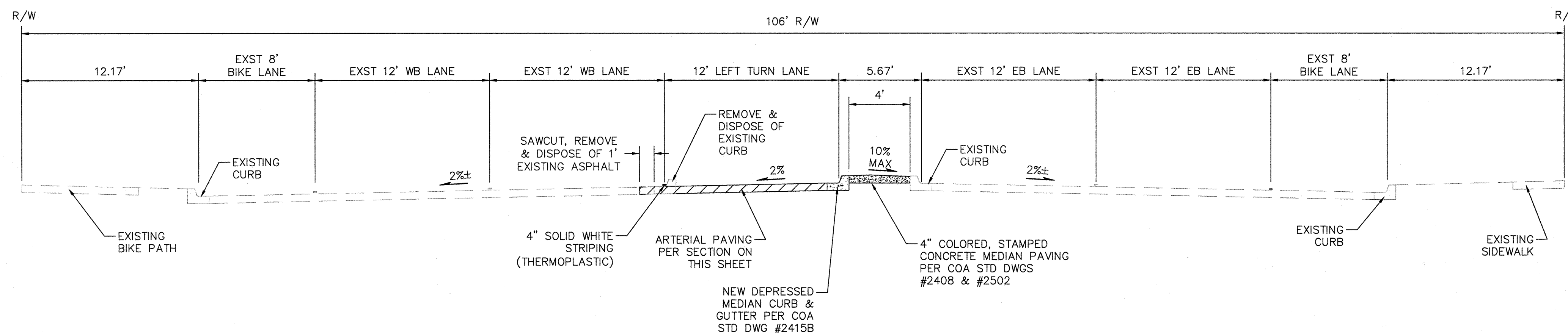
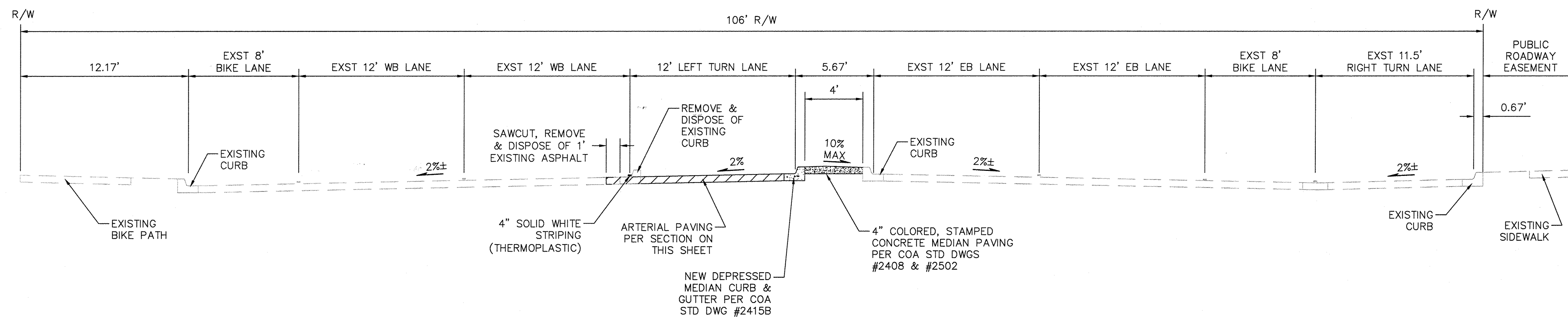
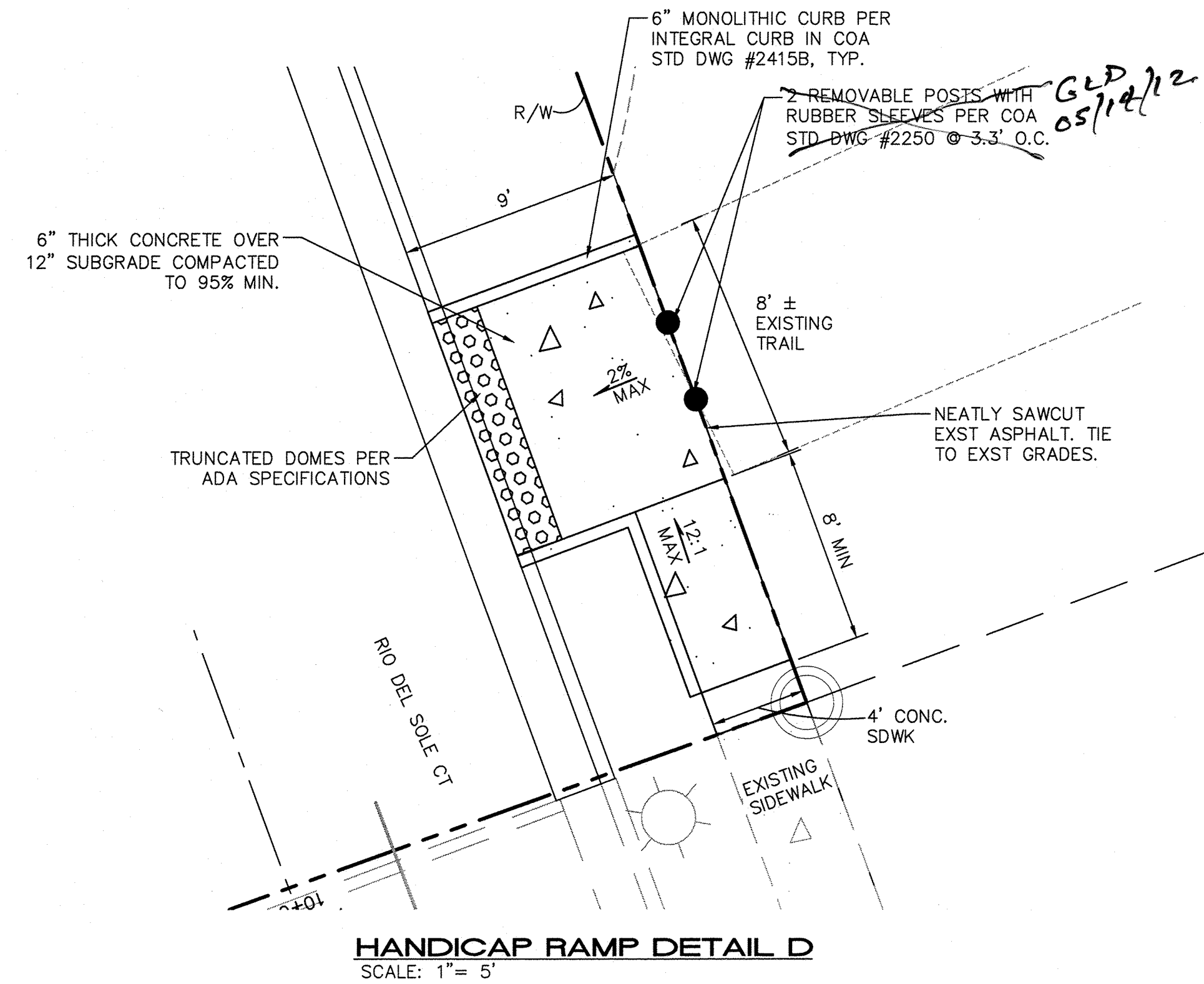
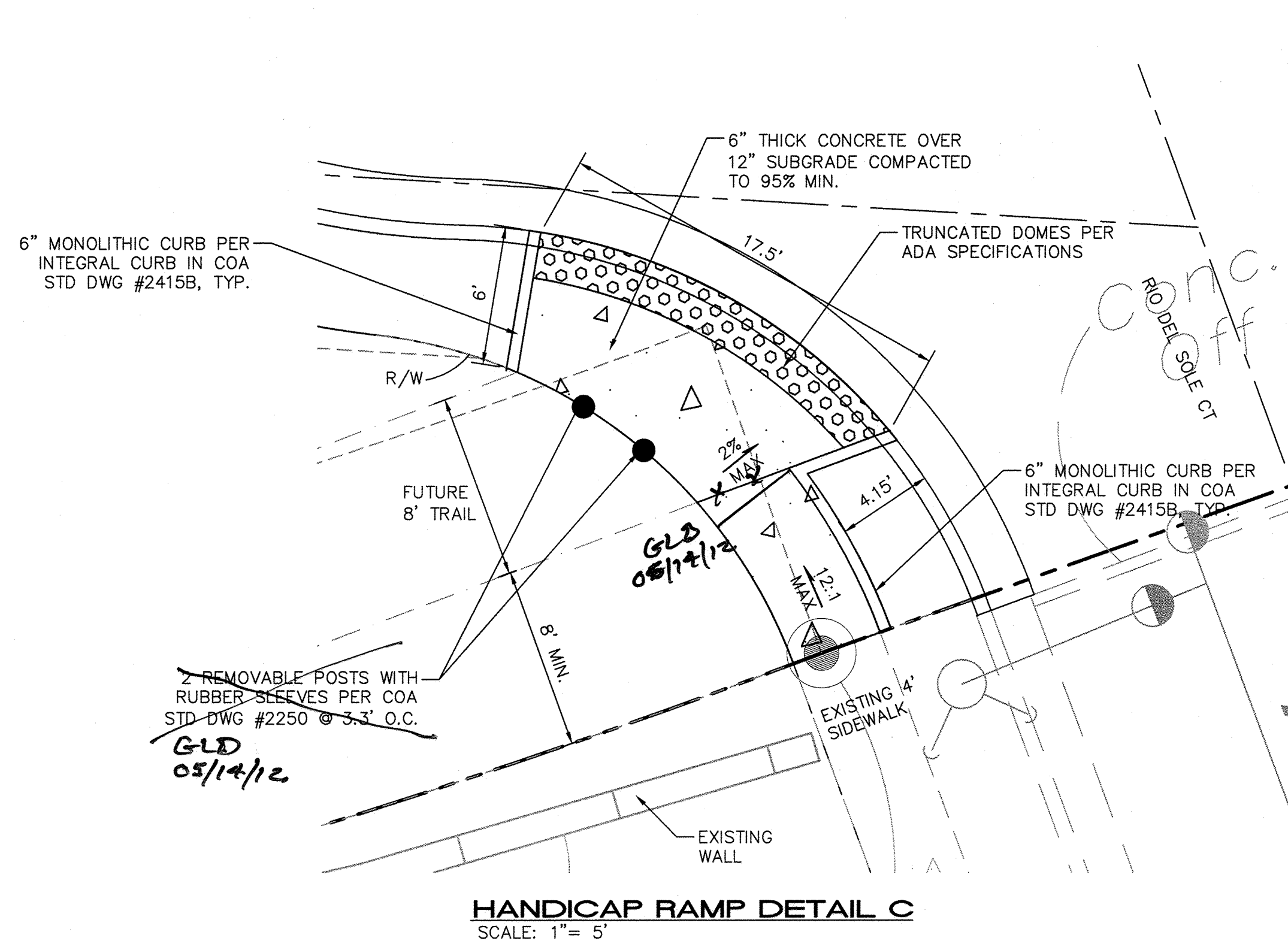
QUARTER POINT DETAIL
NTS

Record Drawing

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 www.iacivil.com
1867 CP-501.dwg May 14, 2012

CITY OF ALBUQUERQUE PLANNING DEPARTMENT ENGINEERING GROUP	
TITLE: MCMAHON MARKETPLACE, PHASE 2 PAVING DETAILS	
Design Review Committee	City Engineer Approval
APPROVED SEP 27 2012 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 2013 CITY ENGINEER
City Project No. 777284	Zone Map No. A-11-Z
Sheet 10 Of 18	Mo./Day/Yr. 07/01/11

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	McMahon/Unser Intersection, NE corner		FIELD NOTES			
WROG BY	DATE	Abuquerque Control Survey Monument "9-A11"					
INSPECTOR	DATE	Elev = 5301.647 feet (NAVD 1988)					
ACCEPTANCE BY	DATE	G-G = 0.999670857, Ag = -015.30.2"					
VERIFICATION BY	DATE	Unser at Calabacillas Dam Bridge, West Side					
CONDUCTED BY	DATE	Abuquerque Control Survey Monument "LSS-103"					
CORRECTED BY	DATE	Elev = 5295.137 feet (NAVD 1988)					
MICRO-FILM INFORMATION		G-G = 0.999671640, Ag = -015.40.72"					
RECORDED BY	DATE						
NO.							



Record Drawing

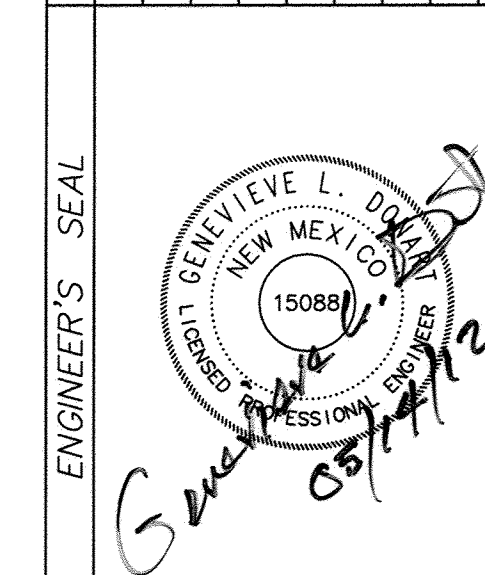
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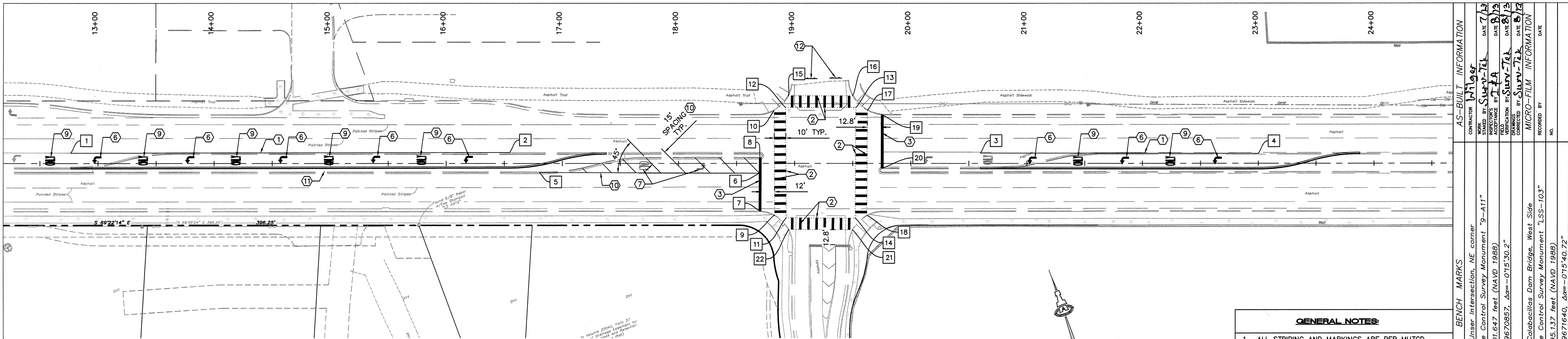
CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
ENGINEERING GROUP

TITLE: **MCMAHON MARKETPLACE, PHASE 2
PAVING DETAILS CONT.**

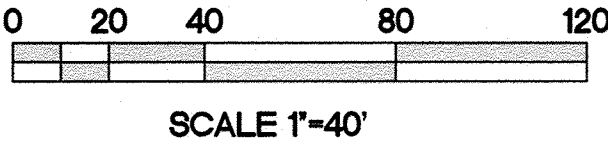
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
SEP 27 2012	MAR 26 2013		
City Project No. 777284	Zone Map No. A-11-Z	Sheet 11 Of 1718	

AS-BUILT INFORMATION			
CONTRACTOR	McMahon/Unser Intersection, NE corner	DATE	7/13
INSPECTOR	Abuquerque Control Survey Monument "9-A11"	DATE	8/13
FIELD	Elev = 5301.647 feet (NAVD 1988)	DATE	8/13
REVISION	G-G = 0.999670657, Ab = -0.1530.2"	DATE	8/13
MICRO-FILM INFORMATION			
RECORDED BY	Unser at Calabacillas Dam Bridge, West Side	DATE	
NO.	Abuquerque Control Survey Monument "LSS-103"	DATE	
	Elev = 5295.137 feet (NAVD 1988)	DATE	
	G-G = 0.999671640, Ab = -0.1540.72"	DATE	

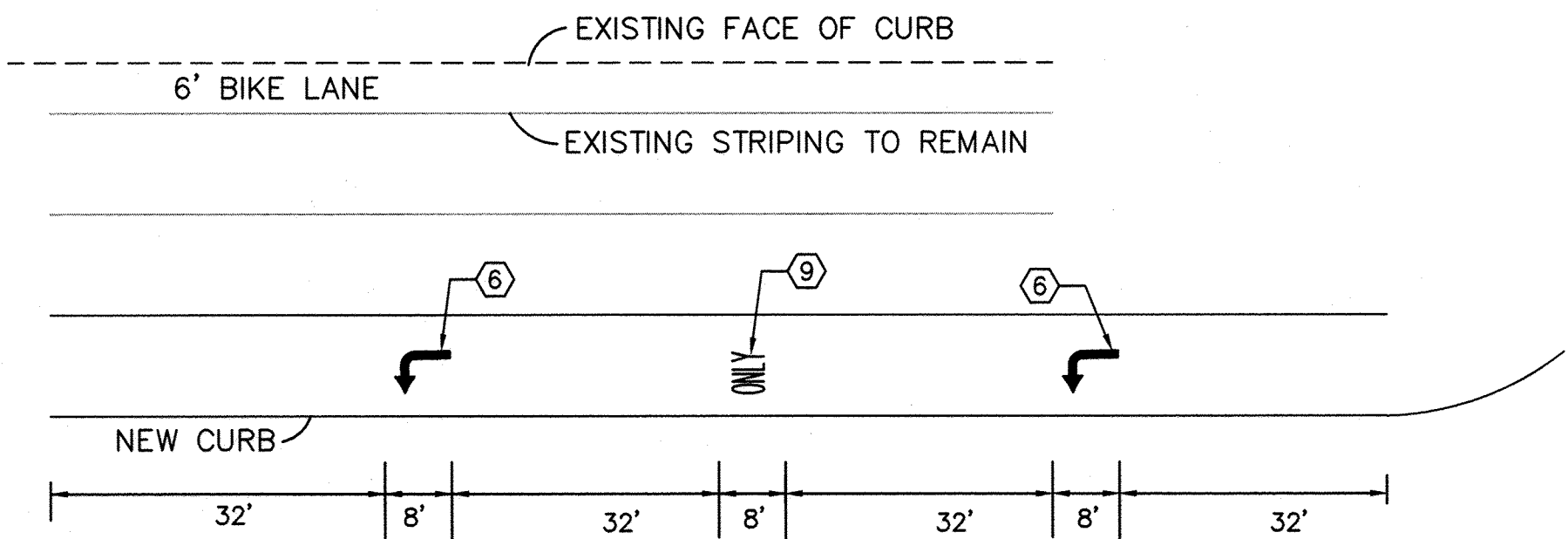
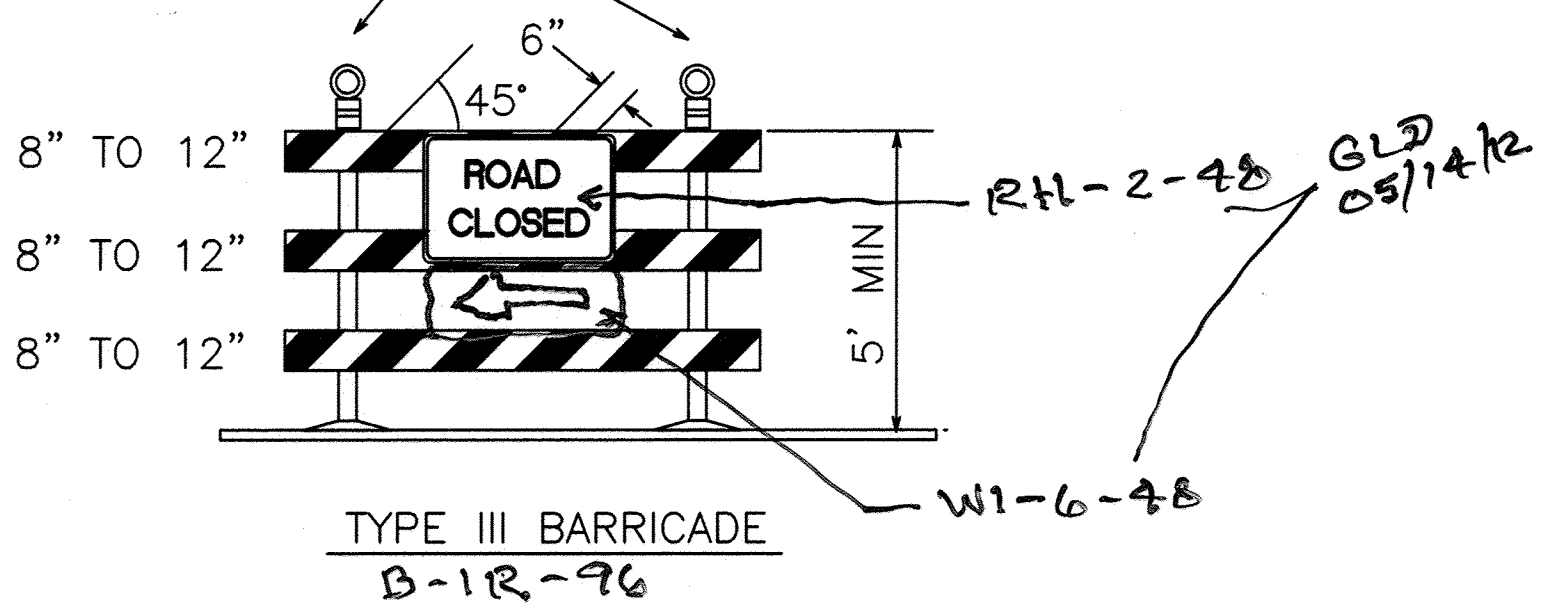




MCMAHON BLVD



WARNING LIGHT



MCMAHON LEFT TURN STRIPING DETAIL
SCALE: 1"=20'

- GENERAL NOTES:**
- ALL STRIPING AND MARKINGS ARE PER MUTCD.
 - ALL MARKINGS SHALL BE PREFORMED PLASTIC.
 - ALL STREET STRIPING TO REMAIN THAT IS ALTERED OR DESTROYED SHALL BE REPLACED W/ REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATIONS AS WAS EXISTING OR AS OTHERWISE INDICATED BY CITY APPROVED PLAN SET.
 - ALL 4" & 6" STRIPING SHALL BE HOT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS, 120 ml.
 - ARROW MARKINGS AND 12"-24" STRIPING SHALL BE COLD THERMOPLASTIC PAVEMENT MARKINGS, 120 ml.

ERADICATION NOTE

STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25" AND TWICE THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.

- KEYED CONSTRUCTION NOTES**
- 4" SOLID WHITE STRIPE.
 - 10' LONG, 2' WIDE WHITE STRIPE @ 7' O.C.
 - 24" WHITE STOP BAR.
 - NOT USED.
 - 8' RIGHT TURN ARROW.
 - 8' LEFT TURN ARROW.
 - REMOVE EXISTING STRIPING. SEE ERADICATION NOTES.
 - 8' THROUGH ARROW.
 - 8' "ONLY" MARKING.
 - 4" SOLID YELLOW STRIPE.
 - RELOCATE EXST SIGN, AS NEEDED.
 - 2 - TYPE III BARRICADES PER COA STD DWG #2803, SEE DETAIL THIS SHEET.

ISAACSON & AREFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 www.iaacivil.com
1867 CP-304.dwg May 14, 2012

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
ENGINEERING GROUP

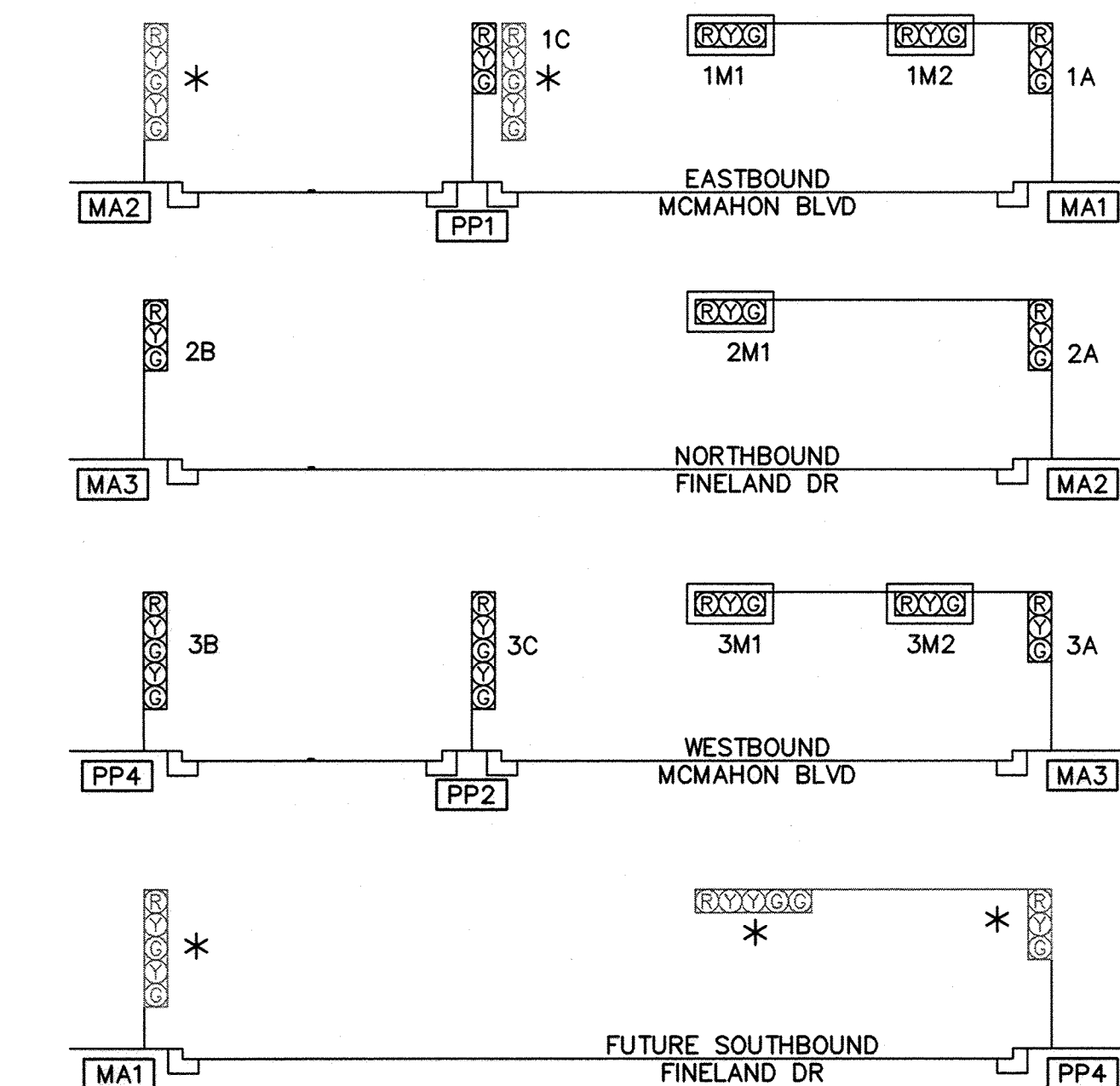
TITLE: MCMAHON MARKETPLACE, PHASE 2 STRIPING PLAN

Design Review Committee	City Engineer Approval	Ms./day/yr.	Ms./day/yr.
APPROVED SEP 27 2012 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 2013 CITY ENGINEER		

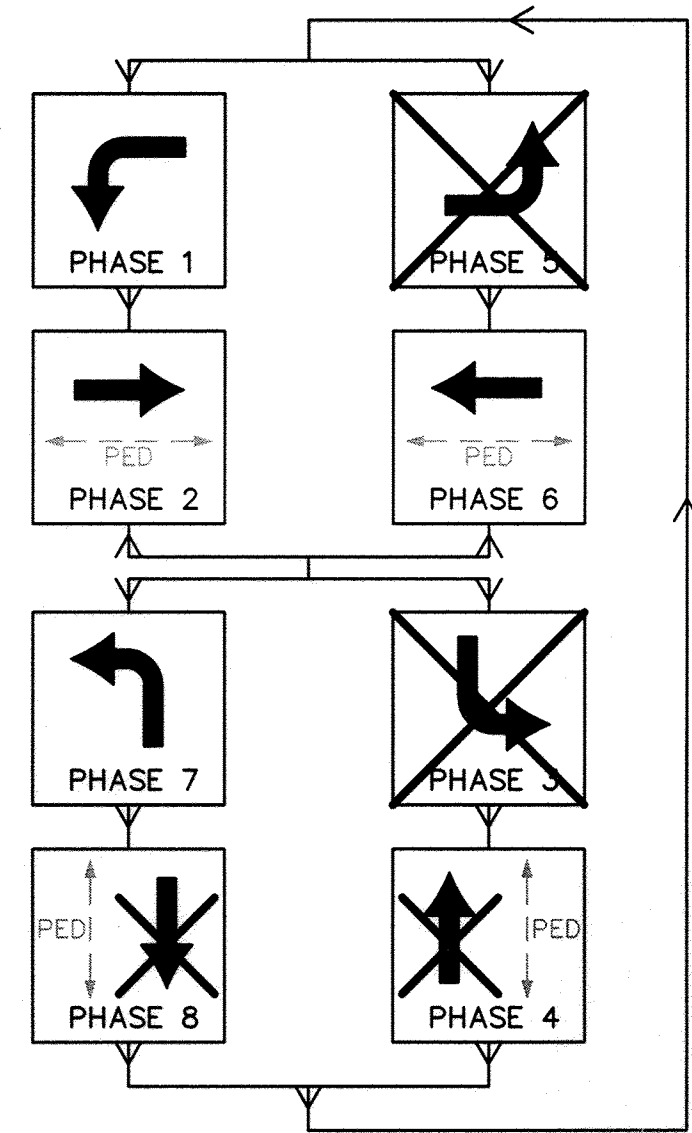
City Project No. **777284** Zone Map No. **A-11-Z** Sheet **12** Of **1718**

STRIPING STATION TABLE		
STATION	STATION AND OFFSET	STATION TYPE
1	12+76.56, 8.73' LT	BEGIN
2	16+54.70, 9.33' LT	END
3	20+60.02, 8.77' LT	BEGIN
4	23+00.13, 8.42' LT	END
5	16+80.35, 7.81' RT	BEGIN
6	18+70.23, 8.45' RT	END
7	18+70.12, 40.85' RT	BEGIN
8	18+70.27, 4.67' LT	END
9	18+82.85, 44.19' RT	BEGIN
10	18+82.22, 45.04' LT	END
11	18+92.87, 46.64' RT	ANGLE
12	18+92.20, 47.74' LT	ANGLE
13	19+52.58, 47.75' LT	ANGLE
14	19+52.25, 46.90' RT	ANGLE
15	18+94.66, 57.74' LT	BEGIN
16	19+49.85, 57.75' LT	END

STRIPING STATION TABLE		
STATION	STATION AND OFFSET	STATION TYPE
17	19+62.57, 45.31' LT	BEGIN
18	19+62.26, 44.38' RT	END
19	19+75.38, 41.49' LT	BEGIN
20	19+75.45, 4.10' RT	END
21	19+49.73, 56.89' RT	BEGIN
22	18+95.31, 56.65' RT	END



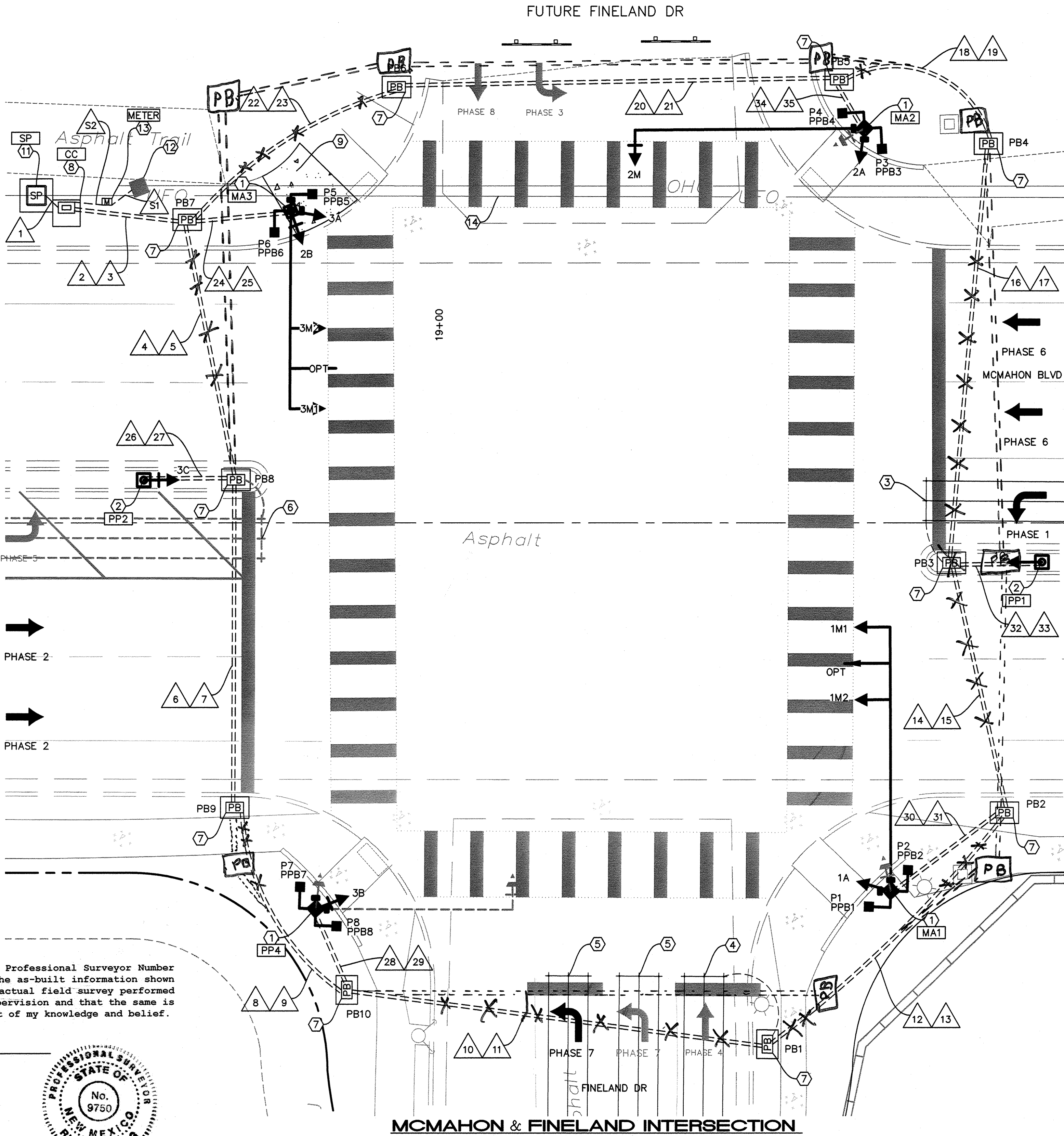
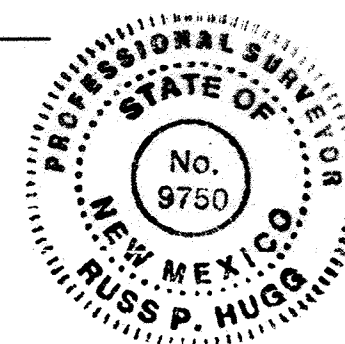
TRAFFIC SIGNAL CONFIGURATION BY APPROACH



INTERIM SIGNAL PHASING

SURVEYORS CERTIFICATION
 I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
 NMPS No. 9750
 8.20, 2013



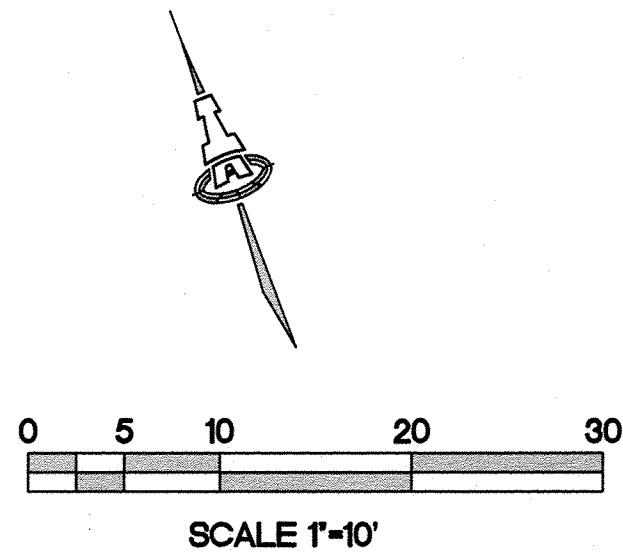
MCMAHON & FINELAND INTERSECTION

MASTARMS AND PEDESTAL POLES TABLE			
ID	TYPE	STREET NAME FOR SIGN	STATION & OFFSET
MA1	TYPE II - 40'	FINELAND DR	STA 19+68.17, 55.79' RT
MA2	TYPE II - 35'	MCMAHON BLVD	STA 19+63.97, 59.69' LT
MA3	TYPE II - 30'	FINELAND DR	STA 18+76.70, 47.24' LT
PP4	TYPE I - 15'	MCMAHON BLVD	STA 18+80.55, 58.49' RT
PP1	TYPE I - 13'		STA 19+91.14, 5.93' RT
PP2	TYPE I - 13'		STA 18+54.29, 6.47' RT
CC	CONTROLLER CABINET		STA 18+42.51, 47.70' LT
METER	SERVICE METER		STA 18+48.68, 48.62' LT
SP	FIBER OPTIC SPLICE VAULT		STA 18+37.93, 49.57' LT

LEGEND	
	5-SECTION SIGNAL HEAD
	3-SECTION SIGNAL HEAD
	OPTICON DETECTOR
	MASTARM BASE/PEDESTAL POLE (MA#)
	PEDESTRIAN SIGNAL (P#) & PEDESTRIAN PUSH BUTTON (PPB#)
	PULL BOX
	FIBER OPTIC SPLICE VAULT
	CONTROLLER CABINET
	MA1 MASTARM/PEDESTAL ID
	CONDUIT ID
	EXISTING STREET LIGHT
	EXISTING PULL BOX
	FUTURE 5-SECTION SIGNAL HEAD
	FUTURE 3-SECTION SIGNAL HEAD

KEYED TRAFFIC NOTES

- TYPE II MASTARM, STEEL, PER COA STD DWGS #2562a-d.
 - INSTALL WITH SQUARE MASTARM FOUNDATION PER COA STD DWG #2558.
 - MASTARM LENGTH AND STREET NAME SIGNS PER MASTARM AND PEDESTAL POLE TABLE ON THIS SHEET.
 - INSTALL 5-SECTION AND/OR 3-SECTION SIGNAL HEADS WITH BACKPLATES WHEN INDICATED PER THE TRAFFIC SIGNAL CONFIGURATION BY APPROACH DETAIL ON THIS SHEET.
 - INSTALL PEDESTRIAN SIGNALS AND PUSH BUTTONS PER COA STD DWG #2560 IN BOTH DIRECTIONS.
 - INSTALL OPTICON DETECTOR WHEN INDICATED PER THE PLAN VIEW ON THIS SHEET.
- TYPE I MASTARM, STEEL, (PEDESTAL POLE) PER COA STD DWGS #2560, #2562a-d.
 - INSTALL WITH PEDESTAL FOUNDATION PER COA STD DWG #2555.
 - POLE HEIGHT PER MASTARM AND PEDESTAL POLE TABLE ON THIS SHEET.
 - INSTALL 5-SECTION AND/OR 3-SECTION SIGNAL HEADS PER THE TRAFFIC SIGNAL CONFIGURATION BY APPROACH DETAIL ON THIS SHEET.
- 6'X60' QUADRAPOLE LOOP DETECTOR PER COA STD DWG #2552
- 6'X40' BIPOLE LOOP DETECTOR PER COA STD DWG #2552
- 6'X40' QUADRAPOLE LOOP DETECTOR. PER COA STD DWG #2552.
- STUB OUT CONDUIT FOR FUTURE 6'X60' QUADRAPOLE LOOP DETECTOR. INSTALL PULL STRING/TRACER WIRE IN UNUSED CONDUIT. DETECTOR TO BE INSTALLED BY OTHERS WITH BUILD OUT OF FINELAND DR NORTH OF MCMAHON BLVD
- LARGE PULL BOX PER COA STD DWG #2550.
- TYPE "P" CONTROLLER CABINET WITH TS-1 ECONOLITE ASC/3 CONTROLLER, INTERCONNECT CAPABLE. INCLUDE 1 OPTION PHASE SELECTOR MODULE. INSTALL FOUNDATION PER COA STD DWG #2555.
- CAREFULLY REMOVE AND REPLACE WHEELCHAIR RAMP STONE TO MATCH COA STD DWG #2441.
- NOT USED.
- FIBER OPTIC SPLICE VAULT & ENCLOSURE. SEE VAULT DETAIL ON SHEET 15 AND SPLICE ENCLOSURE DETAIL ON SHEET 14. IF EXISTING SLACK IS INSUFFICIENT, PULL NEW FIBER OPTIC LINE FROM THE UNISER/MCMAHON INTERSECTION. NEW FIBER OPTIC LINE IS INCIDENTAL TO THE CONTRACT.
- EXISTING POWER POLE TO REMAIN. CONTRACTOR SHALL PROTECT DURING CONSTRUCTION.
- METER PEDESTAL PER COA STD DWG #2572. COORDINATE WITH PNM FOR SERVICE RISER.
- EXISTING INTERCONNECT LINES. CONTRACTOR SHALL PROTECT INTERCONNECT LINES DURING CONSTRUCTION.



Record Drawing

ISAACSON & ARFMAN, P.A.
 Consulting Engineering Associates
 128 Monroe Street N.E.
 Albuquerque, New Mexico 87108
 Ph. 505-268-8828 www.iacivil.com
 1867 CP-305.dwg Jul 26, 2012

CITY OF ALBUQUERQUE
 PLANNING DEPARTMENT
 ENGINEERING GROUP

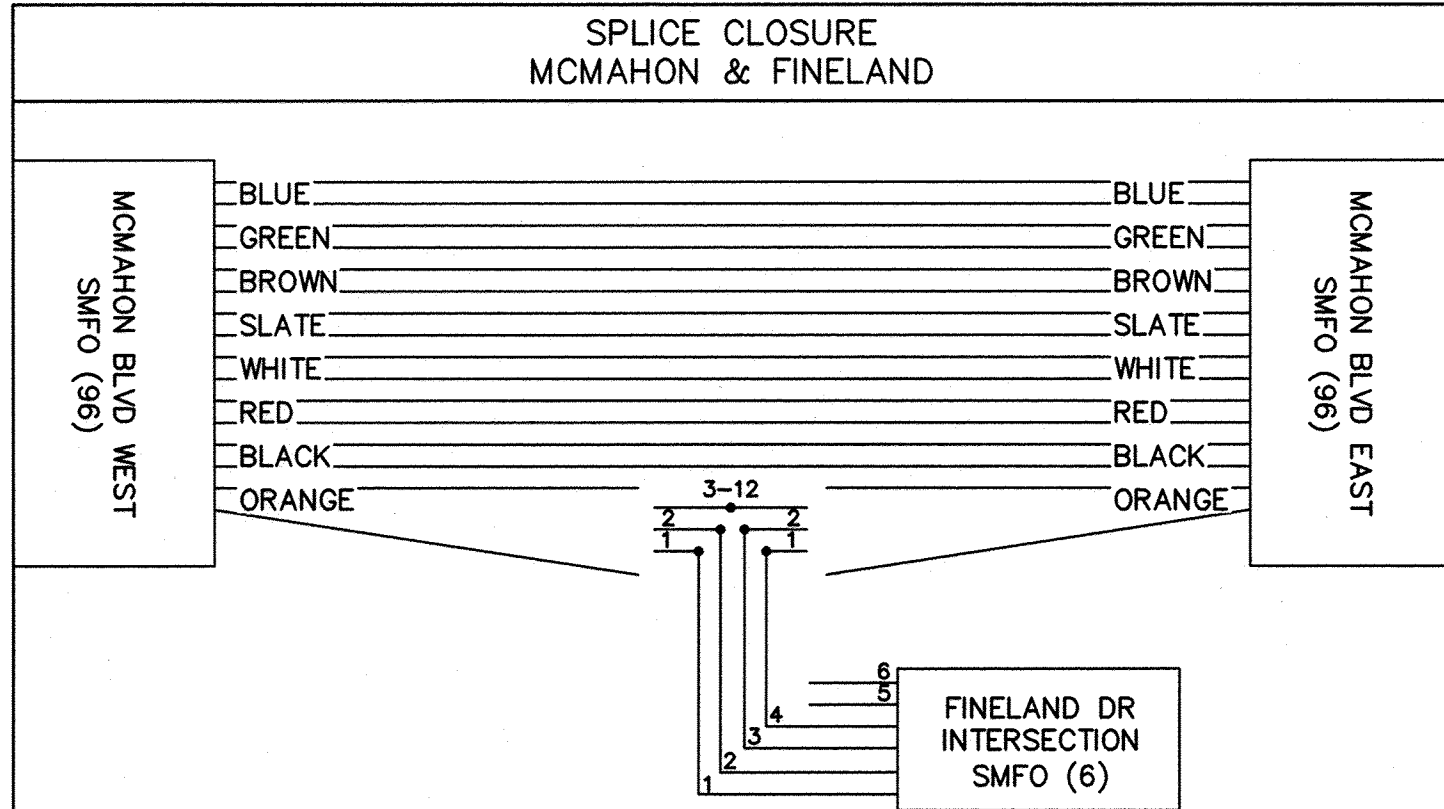
TITLE: MCMAHON MARKETPLACE, PHASE 2 SIGNALIZATION PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
SEP 27 2012	SEP 26 2012		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No. 777284	Zone Map No. A-11-Z	Sheet 13	Of 18

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	McMahon/Unser Intersection, NE corner		FIELD NOTES			
INSPECTOR	DATE	Abuquerque Control Survey Monument "9-A11"					
ACCEPTANCE BY	DATE	Elev= 5301.647 feet (NAVD 1988)					
VERIFICATION BY	DATE	G-G=0.999670857, Δσ= -0'15"30.2"					
DRAWING	DATE	Unser at Calabacillas Dam Bridge, West Side					
RECORDED BY	DATE	Abuquerque Control Survey Monument "LSS-103"					
		Elev= 5295.137 feet (NAVD 1988)					
		G-G=0.999671640, Δσ= -0'15"40.72"					

CONDUIT & CONDUCTOR REQUIREMENTS

CONDUIT SIZE, LENTH & TYPE				CONDUCTOR SIZE, LENTH & TYPE							
RUN	LOCATION	3" LF ¹	3" LF ¹	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 ² (# @ FT)	SCC 2 (# @ FT)	#6 AWG (1 Green & 1 White) (# @ FT)	OPT DET (# @ FT)	LOOP LEAD IN (# @ FT)	PULL STRING ¹ (# @ FT)
S1	POLE TO METER	6					3 @ 12				
S2	METER TO CONTROLLER	6					3 @ 12				
1	SPUCE VAULT TO CONTROLLER	4									
2	CONTROLLER TO PB7	17		1 @ 23		2 @ 23		2 @ 23			
3	"		17						2 @ 23	4 @ 23	
4	PB7 TO PB8	39		1 @ 45		2 @ 45		2 @ 45			
5	"		39							3 @ 45	
6	PB8 TO PB9	48		1 @ 54		2 @ 54		2 @ 54			
7	"		48							3 @ 54	
8	PB9 TO PB10	32		1 @ 38		2 @ 38		2 @ 38			
9	"		32							3 @ 38	
10	PB10 TO PB1	63		1 @ 69		2 @ 69		2 @ 69			
11	"		63							3 @ 69	
12	PB1 TO PB2	50		1 @ 56		2 @ 56		2 @ 56			
13	"		50								1 @ 56
14	PB2 TO PB3	38		1 @ 44		2 @ 44		2 @ 44			
15	"		38						1 @ 44		
16	PB3 TO PB4	62		1 @ 68		2 @ 68		2 @ 68			
17	"		62						1 @ 68	1 @ 68	
18	PB4 TO PB5	26		1 @ 32		2 @ 32		2 @ 32			
19	"		26						1 @ 32	1 @ 32	
20	PB5 TO PB6	65		1 @ 71		2 @ 71		2 @ 71			
21	"		65						1 @ 71	1 @ 71	
22	PB6 TO PB7	37		1 @ 43		2 @ 43		2 @ 43			
23	"		37						1 @ 43	1 @ 43	
24	PB7 TO MA3	15		1 @ 21		1 @ 21		2 @ 21			
25	"		15						1 @ 21		
26	PB8 TO PP2	13			1 @ 19			2 @ 19			
27	"		13								
28	PB10 TO PP4	12		4 @ 18	1 @ 18			2 @ 18			
29	"		12								
30	PB2 TO MA1	20		1 @ 26		1 @ 26		2 @ 26			
31	"		20						1 @ 26		
32	PB3 TO PP1	13			1 @ 19			2 @ 19			
33	"		13								
34	PB5 TO MA2	8		1 @ 14		1 @ 14		2 @ 14			
35	"		8								1 @ 14
MA1	BASE TO 1M1			1 @ 66							
	BASE TO 1M2			1 @ 56							
	BASE TO OPT								1 @ 61		
	BASE TO 1A			1 @ 19							
	BASE TO P1			1 @ 19							
	BASE TO PPB1			1 @ 10							
	BASE TO P2			1 @ 19							
	BASE TO PPB2			1 @ 10							
MA2	BASE TO 2M				1 @ 61						
	BASE TO 2A			1 @ 19							
	BASE TO P3			1 @ 19							
	BASE TO PPB3			1 @ 10							
	BASE TO P4			1 @ 19							
	BASE TO PPB4			1 @ 10							
MA3	BASE TO 3M1			1 @ 56							
	BASE TO 3M2			1 @ 44							
	BASE TO OPT								1 @ 50		
	BASE TO 3A			1 @ 19							
	BASE TO 2B				1 @ 19						
	BASE TO P5			1 @ 19							
	BASE TO PPB5			1 @ 10							
	BASE TO P6			1 @ 19							
	BASE TO PPB6			1 @ 10							
PP4	BASE TO 3B				1 @ 19						
	BASE TO P7			1 @ 19							
	BASE TO PPB7			1 @ 10							
	BASE TO P8			1 @ 19							
	BASE TO PPB8			1 @ 10							
PP1	BASE TO 1C				1 @ 21						
PP2	BASE TO 3C				1 @ 21						
TOTALS		574	558	1187	197	1147	72	1362	462	2	70
¹ INSTALL PULL STRING / TRACER WIRE IN ANY UNUSED CONDUIT.											
² LABEL RING 1 MCC-20 WITH 1 PIECE OF WHITE ELECTRICAL TAPE. LABEL RING 2 MCC-20 WITH 2 PIECES OF WHITE ELECTRICAL TAPE.											



TRAFFIC SIGNAL NOTES

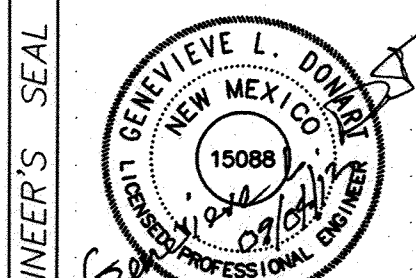
- ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS. THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994), AND THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (STANDARD SPECIFICATIONS).
- LOCATIONS OF CONDUITS, FOUNDATIONS, POLES, AND PULL BOXES SHOW 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 EXISTING RIGHT-OF-WAY.
- THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS OR 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 CITY.
- SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES.
- SPLICING OF TRAFFIC SIGNALS MCC WILL ONLY BE PERMITTED IN LARGE PULL BOXES, INCLUDING LARGE MEDIAN PULL BOXES.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS (857-8092) 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, 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.
- LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARMS POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE. PROVIDE GEL FILLED WIRE NUTS FOR ALL SPLICES & DEAD END CONNECTORS FOR ALL UNUSED CONDUCTORS.
- 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.
- 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.
- THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND ANY EXPLORATORY POTHOLING OR TRENCHING REQUIRED TO MORE SPECIFICALLY LOCATE UTILITY LINES PRIOR TO INSTALLATION OF FOUNDATIONS OR CONDUITS TO ENSURE NO CONFLICTS EXIST. COST FOR LOCATING UTILITY LINES, INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- MASTARMS SHALL BE PLACED 90' TO THE CENTERLINE UNLESS OTHERWISE NOTED.
- SPLICING DETECTION LOOP CABLE WILL NOT BE PERMITTED BETWEEN THE MASTARM BASE AND THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL NOTIFY PNM ELECTRIC THIRTY (30) DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM ELECTRIC TO ESTABLISH ELECTRICAL SERVICE IN CITY OF ALBUQUERQUE'S NAME. THE CONTRACTOR SHALL PAY PNM ELECTRIC ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER THE SIGNING TO THE CITY OF ALBUQUERQUE PINO YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
- THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS DIRECT TRAFFIC WHEN NEW SIGNALS ARE PLACED INTO OPERATION OR WHEN EXISTING SIGNALS ARE TEMPORARILY SHUT OFF.
- SIGNALS NEAR EXISTING OVERHEAD POWER LINES MUST MAINTAIN A VERTICAL CLEARANCE AND/OR A HORIZONTAL CLEARANCE FROM THE CLOSEST PHASE CONDUCTOR. PNM

- ELECTRIC WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
- ALL CONDUIT INSTALLED IN A TRENCH SHALL BE FLAGGED WITH CAUTION TAPE ONE FOOT ABOVE THE CONDUIT.
 - THE FOLLOWING CITY OF ALBUQUERQUE STANDARD DRAWINGS SHALL BE USED FOR THIS PROJECT:
 - 2550 TRAFFIC SIGNAL PULL BOX DETAILS
 - 2558 TRAFFIC SIGNAL FOUNDATION DETAILS TYPE II AND TYPE III STANDARDS.
 - 2560 TRAFFIC SIGNAL MISCELLANEOUS DETAILS
 - THIS PROJECT IS A NEW SIGNAL SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
 - ALL NEW TRAFFIC SIGNAL CONTROLLERS ON THIS PROJECT SHALL BE AS DIRECTED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DEPARTMENT (505) 857-8700.
 - ALL EIGHT PHASE DUAL RING CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE "P" SIZE CABINETS WIRED FOR FULL EIGHT PHASE SYSTEM OPERATION, TELEMETRY BOARDS, "IT" TRANSIENT VOLTAGE SURGE SUPPRESSOR AND ALL CONNECTING HARNESSSES.
 - ALL NEW FIBER SWITCHES FOR COMMUNICATION AT INTERSECTION.
 - SPLICE CABINETS SHALL BE AS DETAILED ON THE PLANS. LOW VOLTAGE SPLICE BLOCKS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BLOCK CAPABLE OF HANDLING 25 PAIR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET CAPABLE OF HANDLING NUMBER OF CONDUCTORS SHOWN ON PLANS). SPLICE BLOCKS SHALL BE BELL SYSTEMS PART #66B3-5G OR APPROVED EQUAL. ALL COMMUNICATION CABLE PAIRS SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.
 - INCIDENTAL ITEMS*
 - REMOVAL OF EXISTING PULL BOXES, CONDUITS, POLES AND OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
 - CABLE TESTING AND DIAGRAMS.
 - BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB AND GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
 - LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
 - DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
 - APPRISSING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
 - HAULING OF MATERIAL TO BE DISPOSED.
 - REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY OF ALBUQUERQUE PINO YARDS.
 - LEAN FILL FOR CONDUIT TRENCHES.
 - PULL BOX ADJUSTMENT TO GRADE.
 - OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL
 - REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
 - REMOVAL AND REINSTALLATION OF EXISTING INTERCONNECT COMMUNICATION CABLE IN NEW RELOCATED CONDUIT RUNS.
 - COST FOR ELECTRICAL POWER.
 - EMBANKMENT MATERIAL. 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.

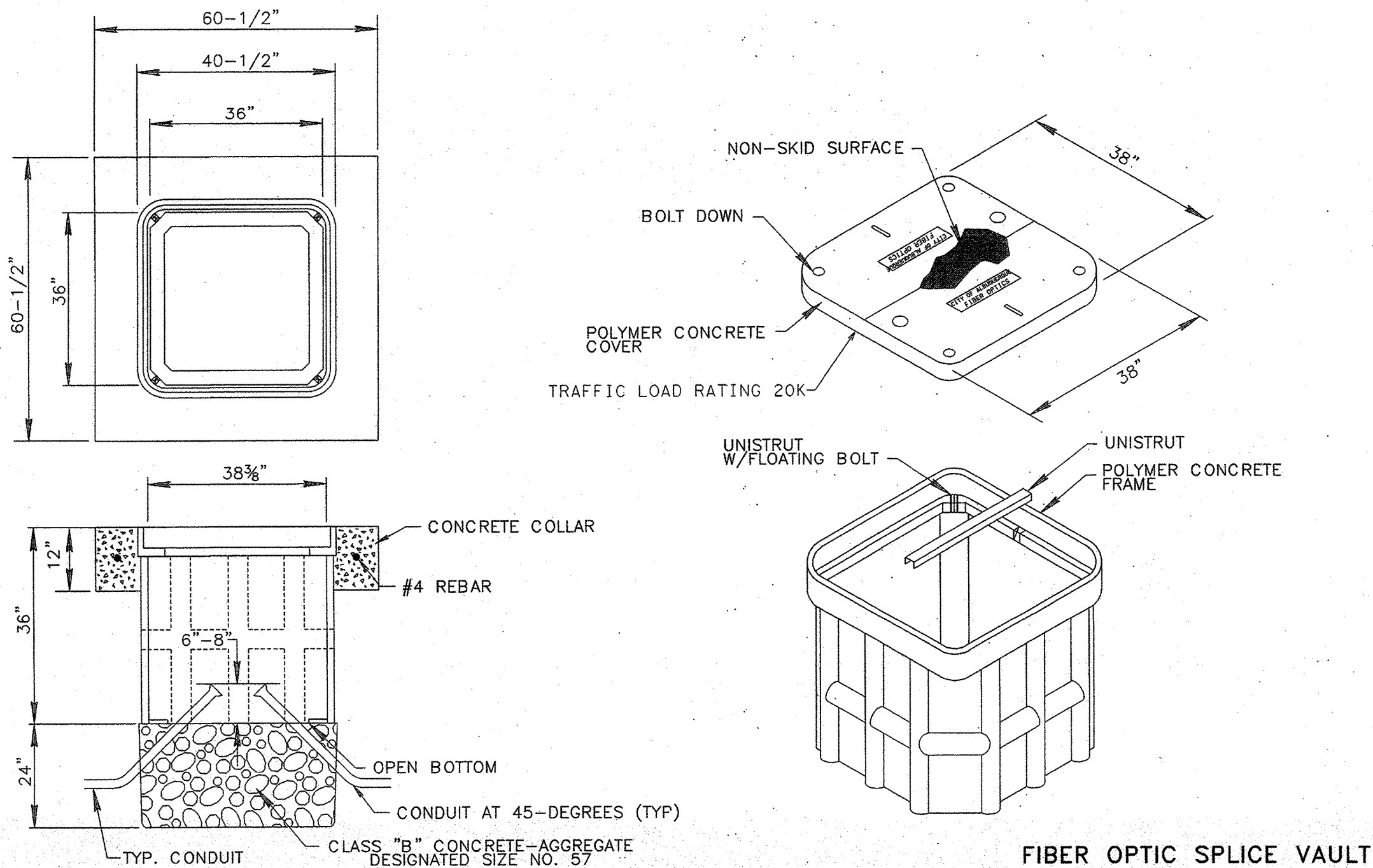
Record Drawing



CITY OF ALBUQUERQUE PLANNING DEPARTMENT ENGINEERING GROUP			
TITLE: MCMAHON MARKETPLACE, PHASE 2 SIGNALIZATION NOTES AND CONDUCTOR SCHEDULE			
Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
APPROVED SEP 27 2012 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 2013 CITY ENGINEER		
City Project No. 777284	Zone Map No. A-11-Z	Sheet 14 Of 18	



REMARKS	BY
DESIGN	
REVISIONS	
NO.	DATE
DESIGNED BY: FCA	DATE: 07/01/11
DRAWN BY: thor	DATE: 07/01/11
CHECKED BY: FCA	DATE: 07/01/11



- NOTE:
- ELEVATION OF TOP OF VAULT SHALL BE EQUAL WITH TOP OF CURB, OR PAVEMENT EDGE IN LOCATIONS WITHOUT CURB.
 - THE CONCRETE IN THE COLLAR SHALL BE PER SEC 101, EXTERIOR CONCRETE, f_c=3000 PSI AT 28 DAYS
 - THE CONCRETE COLLAR SHALL BE CONSIDER INCIDENTAL TO THE FIBER VAULT BID ITEM.
 - SOLID BUILDING BLOCKS SHALL BE SPACED EVENLY AROUND BASE OF PULL BOX. PULL BOX TO BE INSTALLED IN 1" OF CLEAN NO. 57 GRAVEL.

- NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS
- 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.
 - ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS OVER 10" SQUARE (225 PSI)
 - PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
 - THE DIMENSIONS OF THE PULL BOXES ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
 - 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".

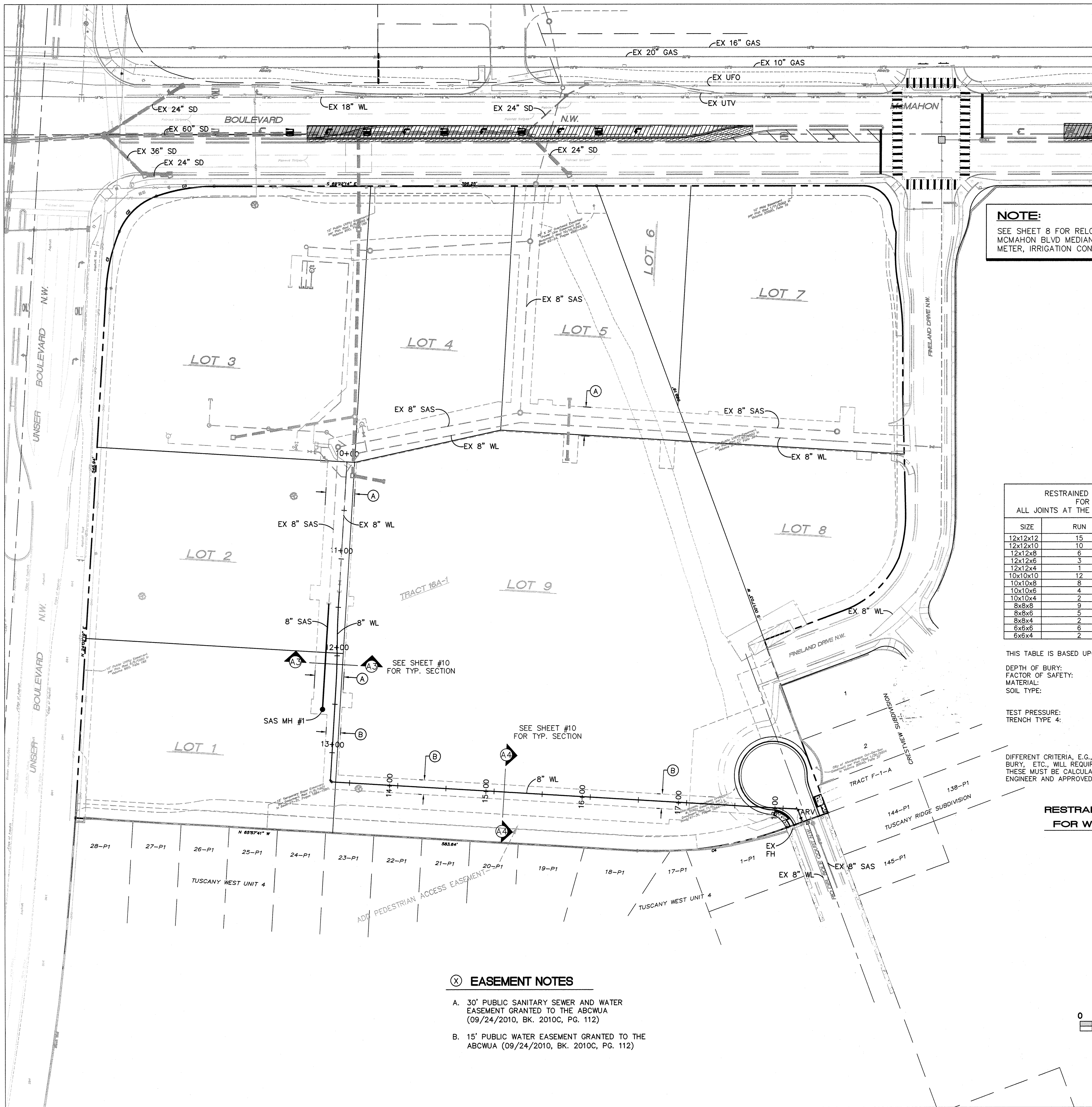
FUNCTION CHART - 24 VOLT CIRCUIT					
CONDUCTOR		RING 1 - MULTI CONDUCTOR CABLE 20		RING 2 - MULTI CONDUCTOR CABLE 20	
CONDUCTOR NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2	PPB 7 & PPB 17	SPARE	SPARE
2	WHITE	COMMON	COMMON	COMMON	COMMON
3	RED	PHASE 4	PPB 11 & PPB 24	SPARE	SPARE
4	GREEN	SPARE	SPARE	PHASE 6	PPB 13 & PPB 26
5	ORANGE	SPARE	SPARE	PHASE 8	PPB 15 & PPB 28

FUNCTION CHART - 115 VOLT CIRCUIT						
CONDUCTOR			RING 1 - MULTI CONDUCTOR CABLE 20		RING 2 - MULTI CONDUCTOR CABLE 20	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	-	SPARE	SPARE	SPARE	SPARE
2	WHITE	-	SPARE	SPARE	SPARE	SPARE
3	RED	-	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	-	PHASE 1 GREEN	GREEN LEFT TURN ARROW 4B, 4C	PHASE 5 GREEN	GREEN LEFT TURN ARROW 2B, 2C
5	ORANGE	-	PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 4B, 4C	PHASE 5 YELLOW	YELLOW LEFT TURN ARROW 2B, 2C
6	BLUE	-	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 RED	RED BALL 4M1, 4M2, 4A, 4B, 4C
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 GREEN	GREEN BALL 4M1, 4M2, 4A, 4B, 4C
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 YELLOW	YELLOW BALL 4M1, 4M2, 4A, 4B, 4C
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P20 & P21	PHASE 6 WALK	PEDESTRIAN WALK P74 & P75
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P20 & P21	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P74 & P75
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	GREEN LEFT TURN ARROW 1M1, 1B	PHASE 7 GREEN	GREEN LEFT TURN ARROW 3M1, 3B
15	BLUE	WHITE	PHASE 3 YELLOW	YELLOW LEFT TURN ARROW 1M1, 1B	PHASE 7 YELLOW	YELLOW LEFT TURN ARROW 3M1, 3B
16	BLACK	RED	PHASE 4 RED	RED BALL 3M1, 3M2, 3A, 3B	PHASE 8 RED	RED BALL 1M1, 1M2, 1A, 1B
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 3M1, 3M2, 3A, 3B	PHASE 8 GREEN	GREEN BALL 1M1, 1M2, 1A, 1B
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 3M1, 3M2, 3A, 3B	PHASE 8 YELLOW	YELLOW BALL 1M1, 1M2, 1A, 1B
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P22 & P23	PHASE 8 WALK	PEDESTRIAN WALK P1 & P2
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P22 & P23	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P1 & P2

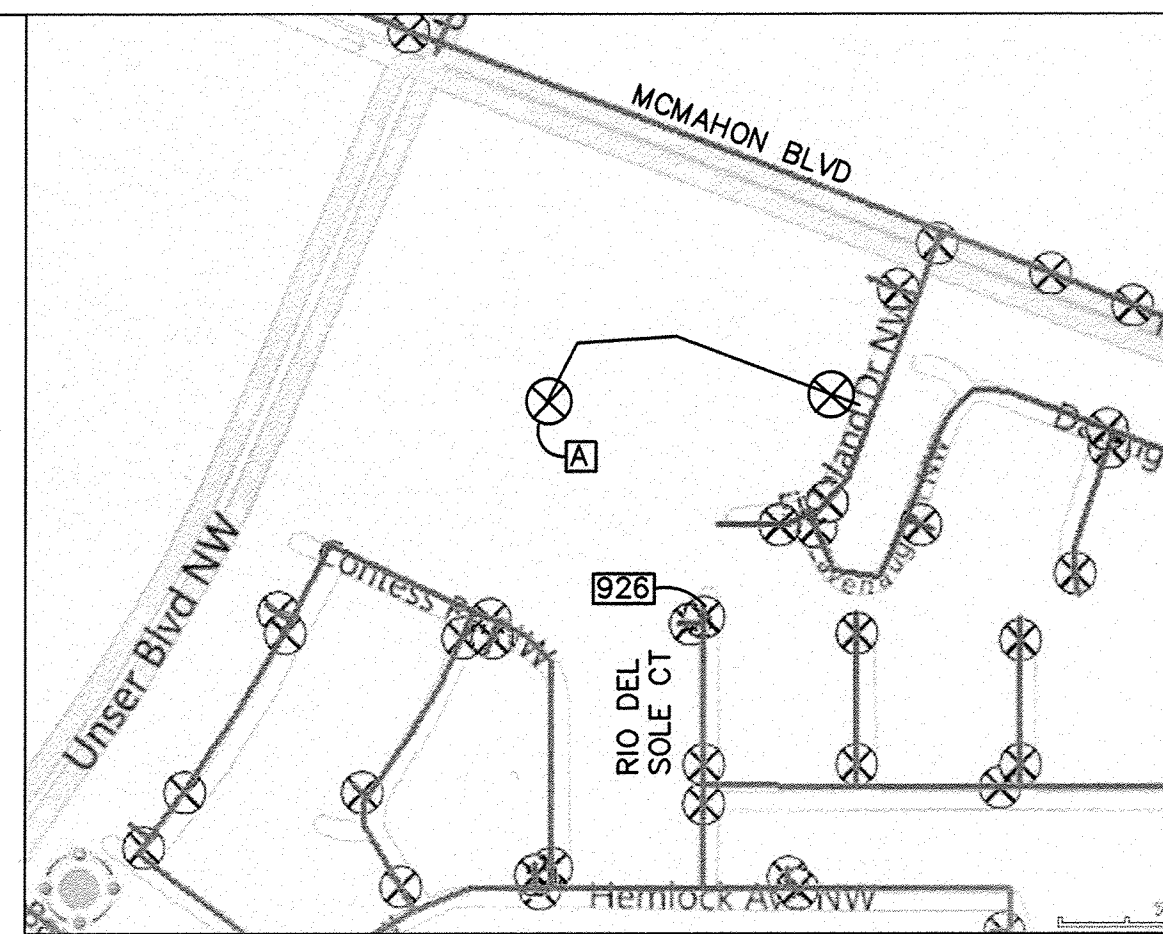


CITY OF ALBUQUERQUE PLANNING DEPARTMENT ENGINEERING GROUP			
TITLE: MCMAHON MARKETPLACE, PHASE 2 SIGNALIZATION FUNCTION CHARTS			
Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
APPROVED SEP 27 2012 DESIGN REVIEW COMMITTEE	APPROVED MAR 26 2013 CITY ENGINEER		
City Project No. 777284	Zone Map No. A-11-Z	Sheet 15 Of 18	

AS-BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	ENGINEER'S SEAL
CONTRACTOR: W. J. J. & S. J. J. STARTED BY: W. J. J. INSPECTOR'S: W. J. J. DATE: 7/13 FIELD VERIFICATION BY: W. J. J. DATE: 8/13 FIELD CORRECTED BY: W. J. J. DATE: 8/13 MICRO-FILM INFORMATION RECORDED BY: W. J. J. DATE: 8/13	McMahon/Usner Intersection, NE corner Abuquerque Control Survey Monument "9-A11" Elev.= 5301.647 feet (NAVD 1988) G-G=0.999670857, Δa=-0°15'30.2"	FIELD NOTES	
	Usner at Colabacillas Dam Bridge, West Side Abuquerque Control Survey Monument "LSS-103" Elev.= 5295.137 feet (NAVD 1988) G-G=0.999671640, Δa=-0°15'40.72"		



NOTE:
SEE SHEET 8 FOR RELOCATION OF
MCMAHON BLVD MEDIAN LANDSCAPE
METER, IRRIGATION CONTROLLERS, ETC.



WATER SHUT-OFF PLAN
SHUT-OFF VALVE 926 TO PROVIDE NON-PRESSURE CONNECTION IN RIO DEL SOLE CT & VALVE (A) TO PROVIDE NON-PRESSURE CONNECTION ON LOT 2. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT [HTTP://ABCWUA.ORG/CONTENT/VIEW/463/729/](http://ABCWUA.ORG/CONTENT/VIEW/463/729/).

Record Drawing

RESTRAINED JOINT LENGTHS, L _r , FOR TEES, (FT.) ALL JOINTS AT THE TEE MUST BE RESTRAINED.		
SIZE	RUN	BRANCH
12x12x12	15	17
12x12x10	10	18
12x12x8	6	19
12x12x6	3	19
12x12x4	1	19
10x10x10	12	18
10x10x8	8	15
10x10x6	4	16
10x10x4	2	4
8x8x8	9	20
8x8x6	5	17
8x8x4	2	15
6x6x6	6	20
6x6x4	2	20

THIS TABLE IS BASED UPON THE FOLLOWING CRITERIA:
DEPTH OF BURY: 3.0 FT. MINIMUM
FACTOR OF SAFETY: 1.25
MATERIAL: PVC PIPE
SOIL TYPE: GM/SM - SILTY GRAVELS AND SILTY SANDS, GRAVEL-SAND-SILT MIXTURES.
TEST PRESSURE: 150 PSI
TRENCH TYPE 4: PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4 INCH MINIMUM; BACKFILL COMPACTED TO TOP OF PIPE.

DIFFERENT CRITERIA, E.G., DUCTILE IRON PIPE, GREATER DEPTH OF BURY, ETC., WILL REQUIRE DIFFERENT RESTRAINED LENGTHS. THESE MUST BE CALCULATED BY A QUALIFIED PROFESSIONAL ENGINEER AND APPROVED BY ABCWUA.

**RESTRAINED JOINT LENGTHS
FOR WATERLINE FITTINGS**

RESTRAINED JOINT LENGTHS, L _r , FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS, (FT.)				
SIZE	HORZ. BENDS			
	90°	45°	22 1/2°	11 1/4°
12	30	12	6	3
10	26	11	5	3
8	22	9	4	2
6	17	7	3	2
4	12	5	2	1

RESTRAINED JOINT LENGTHS, L _r , FOR REDUCERS, (FT.) MINIMUM UNOBSTRUCTED, STRAIGHT-RUN LENGTH: RESTRAIN EITHER LARGE PIPE, OR SMALL PIPE.				
SIZE	LARGE SIDE	SMALL SIDE	SIZE	SMALL SIDE
12x10	25	30	10x6	44
12x8	45	68	10x4	58
12x6	62	121	8x6	25
12x4	74	213	8x4	43
10x8	24	30	6x4	24

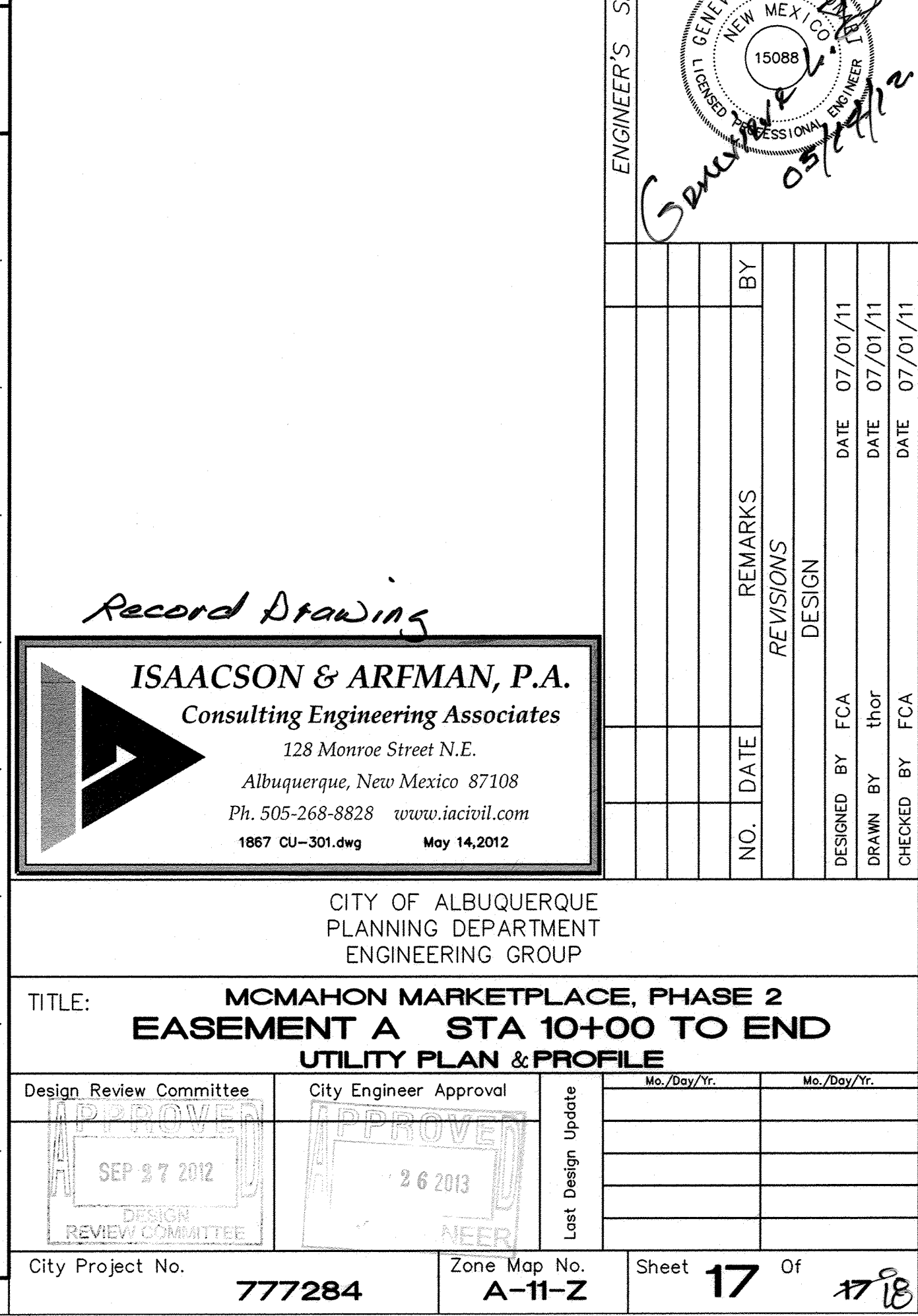
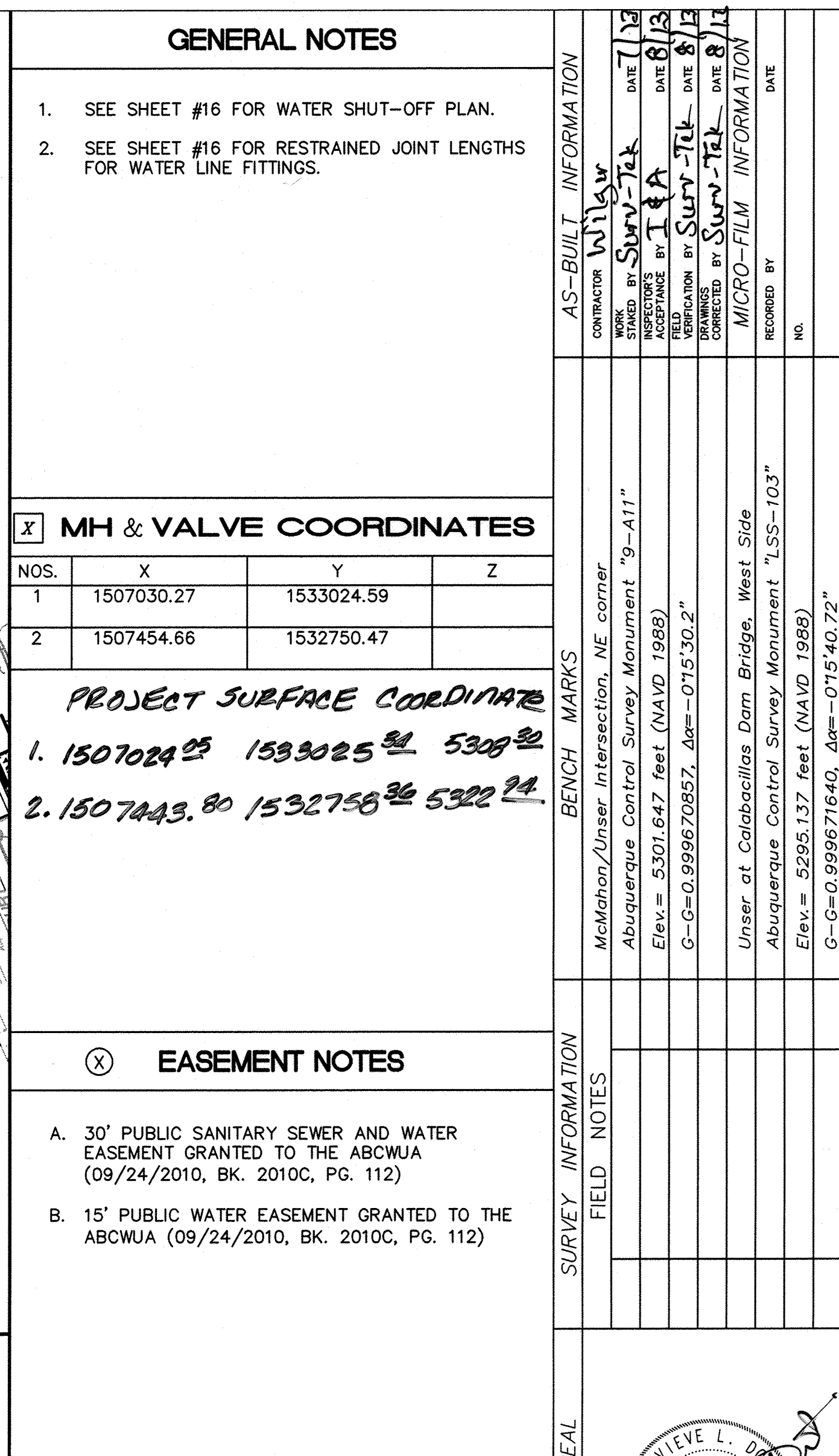
- NOTES:**
- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
 - THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
 - THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

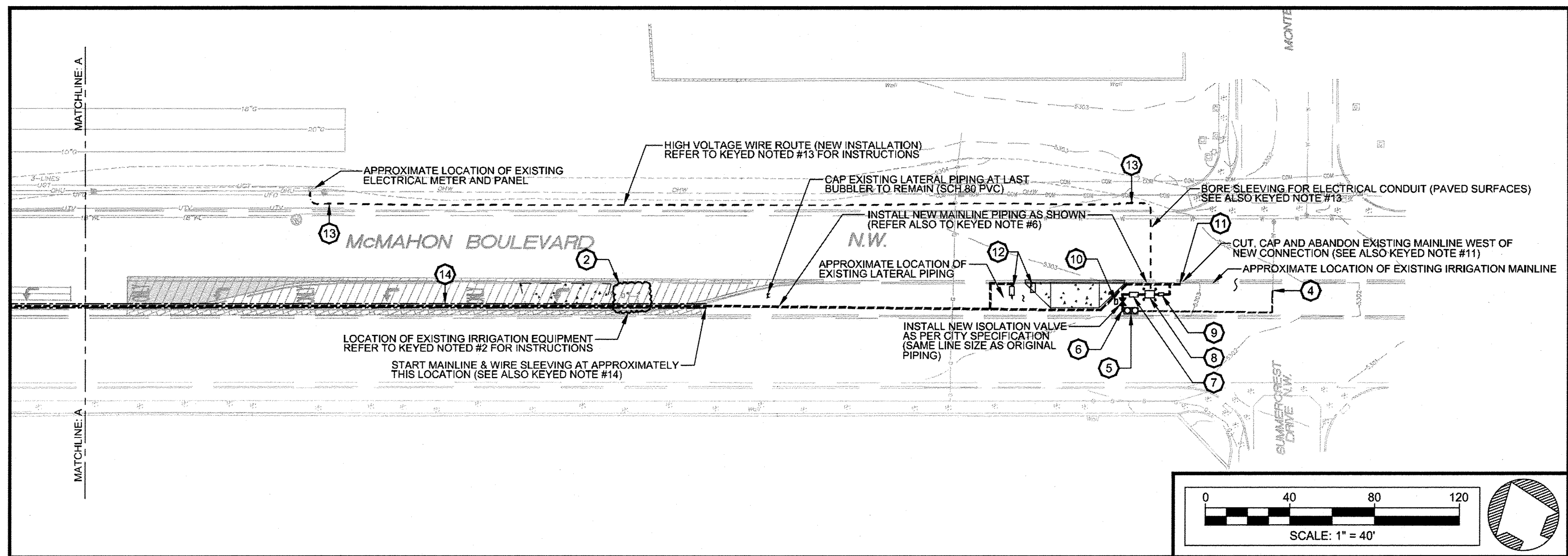
EASEMENT NOTES

- 30' PUBLIC SANITARY SEWER AND WATER EASEMENT GRANTED TO THE ABCWUA (09/24/2010, BK. 2010C, PG. 112)
- 15' PUBLIC WATER EASEMENT GRANTED TO THE ABCWUA (09/24/2010, BK. 2010C, PG. 112)

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1867 CU-101.dwg May 14, 2012

CITY OF ALBUQUERQUE PLANNING DEPARTMENT ENGINEERING GROUP	
TITLE: MCMAHON MARKETPLACE, PHASE 2 MASTER UTILITY PLAN	
Design Review Committee APPROVED SEP 27 2012 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED MAR 26 2013 CITY ENGINEER
City Project No. 777284	Zone Map No. A-11-Z
Sheet 16 Of 1716	DATE 07/01/11 DESIGNED BY FCA DATE 07/01/11 DRAWN BY thor DATE 07/01/11 CHECKED BY FCA





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