

CITY OF ALBUQUERQUE
NEW MEXICO



COA PROJECT
NO. 792291
SOLANO LOCATION

COA PROJECT
NO. 792291
JEFFERSON LOCATION



NTS

DEPARTMENT OF MUNICIPAL DEVELOPMENT
CONSTRUCTION PLANS FOR
CENTRAL AVE. AND SOLANO DR.
CENTRAL AVE. AND JEFFERSON ST.
INTERSECTION BULB OUT PROJECT
COA PROJECT NO. 792291

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ONE COMPANY
Many Solutions

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	*****	
		DRC Chairman		Roland Benitez 3/23/07		APPROVED FOR CONSTRUCTION	
		Transportation		William A. Paez 3/26/07			
		Water/Wastewater		Bradley Z. Bihn 3/29/07			
		Hydrology					
		Parks					
		Constr. Mngmt.				City Engineer Date	
		Constr. Coord.					
		City Project No.		792291		Sheet 1 Of 22	

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Info: Layout: COMPANION
User: Jeffery

PROPOSED	EXISTING	DESCRIPTION
		SANITARY SEWER MANHOLE
		STORM DRAIN MANHOLE
		TELEPHONE MANHOLE
		SANITARY SEWER LINE w/SIZE & TYPE
		STORM DRAIN LINE w/SIZE & TYPE
		WATER LINE w/SIZE & TYPE
		OVERHEAD ELECTRICAL LINE
		ELECTRICAL RISER
		UNDERGROUND ELECTRICAL/TRAFFIC CONTROL
		UNDERGROUND TELEPHONE
		OVERHEAD TELEPHONE
		GAS LINE w/SIZE & TYPE
		CABLE TELEVISION LINE
		ENCASEMENT
		STORM INLET (GRADE ELEVATION GIVEN IN PLANS IS EXTENDED FLOW LINE)
		WATER RISER
		WATER VALVE
		BUTTERFLY VALVE
		FIRE HYDRANT
		REDUCER
		SAS SERVICE CONNECTION
		WATER SERVICE CONNECTION
		TEES
		CROSSES
		BENDS
		CAPS & PLUGS
		WATER METER
		GAS METER
		GAS RISER
		VALVE BOX
		POWER POLE
		TRAFFIC SIGNAL
		TRAFFIC CONTROL BOX
		PULL BOX
		TELEPHONE RISER
		TELEPHONE BOOTH
		FIRE ALARM BOX
		CURB & GUTTER
		SIDEWALK
		BLOCK WALL
		CHAIN LINK FENCE
		FIELD FENCE
		RIGHT OF WAY LINES
		PROPERTY LINES(SIDE)
		PUBLIC EASEMENT
		POWER POLE W/LIGHT
		DRIVEPAD
		MOBILITY IMPAIRED ACCESS RAMP
		C.O.A. PROJECT CONTROL POINT OR A.C.S. MONUMENT DO NOT DISTURB
		TEST BORING
		HORIZ. & VERT. CONTROL
		CENTERLINE
		FLOW LINE ELEVATION
		TOP OF CURB ELEVATION
		TOP OF CONCRETE ELEVATION

GENERAL NOTES:

- THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES, AT LEAST 24 HOURS IN ADVANCE, WITH PROPERTY OWNERS AND THE CONSTRUCTION PROJECT MANAGER.
- IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE ACTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE.
- THE CONTRACTOR SHALL CLEAN ALL EXISTING STRUCTURES THAT ARE TO REMAIN OPERATIONAL. STRUCTURES SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO CONSTRUCTION. NO SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE FOR CLEANING OF STRUCTURES.
- SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATOR, DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION.
- THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF 35 TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION IN PAVEMENT STRUCTURE, ROADWAY BACKFILL, EMBANKMENT, AND SUBGRADES IN URBAN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1988 EDITION THROUGH UPDATE NO.7 AND THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2000 EDITION, OR AS MODIFIED BY THE PROJECT SPECIFICATIONS TITLED "PROJECT NAME", AS STATED IN THE SPECIAL PROVISIONS.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- ALL NEW STREET PAVING, CURB AND GUTTER, SIDEWALKS OR DRIVEPADS SHALL MATCH THE ELEVATIONS OF ADJUTING EXISTING AREAS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE PROJECT MANAGER.
- THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW ADDITIONAL CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.
- WHEN ADJUTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT, TO FULL PAVEMENT DEPTH, THE EXISTING PAVEMENT TO A NEAT VERTICAL STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, OR SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE PER CITY OF ALBUQUERQUE STANDARDS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING, AT HIS OWN EXPENSE, ALL PERMITS NECESSARY FOR CONSTRUCTION.
- ALL WORK IMPACTING AN ARTERIAL ROADWAY WILL REQUIRE 24-HOUR CONSTRUCTION IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE'S ORANGE BARREL POLICY.
- CRITICAL INTERSECTION WORK SHALL NOT START UNTIL THE CONTRACTOR HAS ALL MATERIAL, EQUIPMENT, AND NECESSARY PERSONNEL ON-SITE. TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED PREMATURELY.
- OVERNIGHT PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS, AS SHOWN ON SHEETS 6 AND 7, PRIOR TO INITIATING CONSTRUCTION. IF DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MONUMENT, THE CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR. THE MONUMENT SHALL ONLY BE REPLACED BY THE CITY SURVEY SECTION AT THE CONTRACTOR'S EXPENSE.
- ALL TRENCH EXCAVATION BACKFILL WITHIN THE ROADWAY PRISM SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR PER ASTM D-698 OR D-1557 AS APPLICABLE.
- ANY EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM 0202.01 - EXCAVATE AND DISPOSE OF UNCLASSIFIED MATERIAL AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR 0202.01 - REMOVE AND SALVAGE OR DISPOSE STRUCTURES AND OBSTRUCTIONS.
- BID ITEMS 0343.030 - SAWCUT, REMOVE AND DISPOSE ASPHALT CONCRETE PAVEMENT, ANY DEPTH ARE INCLUDED FOR PAVEMENT REMOVALS IN AREAS WHERE THE ROADWAY WILL NOT BE IMMEDIATELY ADJUSTED TO NEW GRADES AS SHOWN IN THE PLANS.
- THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE CENTRAL AVENUE RIGHT OF WAY UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, INSTALLATION, AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- WHEN EXISTING TRAFFIC SIGNALS ARE TURNED OFF, THE CONTRACTOR SHALL HAVE AN OFF-DUTY POLICE OFFICER DIRECT TRAFFIC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE MADE.
- THROUGHOUT THE LIFE OF THIS PROJECT, THE CONTRACTOR SHALL KEEP THE LOCAL NEWS MEDIA INFORMED OF CONSTRUCTION ACTIVITIES WHICH WILL IMPEDE OR DISRUPT THE NORMAL FLOW OF TRAFFIC.
- THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVISED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT.

INCIDENTAL ITEMS:

- CORRECTION OF PAVEMENT DROP OFF. SEE GENERAL NOTE 2, THIS SHEET
- TRUNCATED DOME MATERIAL FOR ADA RAMPS

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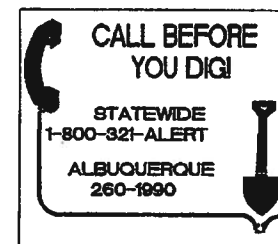
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WHEN APPEARING IN ANY PORTION OF THIS CONTRACT, THE WORDS "PLANT MIX BITUMINOUS PAVEMENT" (PMBP) WILL HAVE THE SAME MEANING AS AND MAY BE USED INTERCHANGEABLY WITH THE WORDS "ASPHALT CONCRETE"

2100 L. CLAYMAN BLVD. NE SUITE 500 ALBUQUERQUE, NM 87110 PHONE: (505) 243-6400 FAX: (505) 243-6401		HDR ONE COMPANY Many Solutions ENGINEERING INC.	
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION			
TITLE: CENTRAL AVE BULB OUT PROJECT			
LEGEND, GENERAL NOTES & UTILITY CONTACTS			
Design/Review Committee	City Engineer Approval	Ms./By/Tr.	Ms./By/Tr.
City Project No.	Zone Map No.	Sheet	Of
792291	K-17	2	22

SUMMARY OF QUANTITIES											
COA ITEM NO.	ITEM DESCRIPTION	UNIT	ROADWAY		CONSTRUCTION SIGNING		PERMANENT SIGNING		LANDSCAPE		PROJECT TOTAL
			ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	
4.010	Construction Staking, compl.	L.S.	1								1
4.020	Construction Surveying, compl.	L.S.	1								1
5.010	Construction Project Sign, per Contract Special Provisions, c/p.	EACH	2								2
6.050	Construction Mobilization, compl.	L.S.	1								1
6.060	Construction Demobilization, compl.	L.S.	1								1
18.010	Construction Traffic Control & Barricading, compl.	L.S.			1						1
30.020	NPDES Permitting, compl.	L.S.	1								1
201.010	Site Clearing and Grubbing, compl.	AC	0.5								0.5
201.060	Erosion Control, incl. all plant, labor, equip., & materials, excl. silt fence, c/p.	L.S.	1								1
202.011	Excavate & Dispose of unsuitable material, compl.	CU.YD.	180								180
205.010	Borrow, Hauling & Compaction of suitable fill material when not obtained from within limits of construction, compl.	CU.YD.	100								100
301.020	Subgrade Prep. 12" at 95% compaction, c/p.	SQ.YD.	940								940
302.010	Aggregate Base Course, crushed, 6" at 95% compaction, c/p. SD 2408	SQ.YD.	940								940
336.010	Prime Coat, emulsified asphalt, c/p.	SQ.YD.	940								940
336.034	Arterial Asphalt Concrete, Type A, 2 inch thick, machine laydown, c/p.	SQ.YD.	1870								1870
336.120	Tack Coat, cationic emulsified asphalt, c/p. (1 Application)	SQ.YD.	940								940
340.010	Sidewalk, 4" thick, Portland Cement Concrete, incl. subgrade compaction, c/p. SD 2430	SQ.YD.	350								350
340.025	Wheelchair Access Ramp, 4" PCC, Std. Curb, c/p. SD 2418	EACH	16								16
340.030	Valley Gutter & Curb, Portland Cement Concrete, incl. reinforcement and subgrade compaction, c/p. SD 2420	SQ.YD.	100								100
340.050	Curb And Gutter, Standard, Portland Cement Concrete, incl. subgrade preparation, c/p. SD 2415	LN. FT.	540								540
340.060	Curb And Gutter, Median, Portland Cement Concrete, c/p. SD 2408	LN. FT.	230								230
340.110	Header Curb, Portland Cement Concrete, incl. subgrade, c/p., SD 2415	LN. FT.	570								570
343.030	Existing Pavement, Asphalt Concrete, more than 4" thick, sawcut, remove & dispose, compl.	SQ. YD.	1460								1460
343.080	Existing Curb & Gutter or Valley Gutter, PC Concrete, remove & dispose, compl.	LN. FT.	610								610
343.085	Existing Sidewalk, 4" PC Concrete, remove & dispose	SQ.YD.	430								430
346.100	Textured Median Pavement, 4" thick, Colored PC Concrete, incl. subgrade compaction, c/p. SD 2408	SQ.FT.	480								480
346.110	Median Pavement, 4" thick, Colored PC Concrete, incl. subgrade compaction, c/p.	SQ. FT.	690								690
440.010	Reflectorized Painted Arrow, Right, c/p.	EACH			3						3
440.020	Reflectorized Painted Word, Only, c/p.	EACH			3						3
441.002	Reflectorized Plastic Pavement Markings, 6" width, c/p.	LN. FT.			60						60
441.00X	DecoMark Herringbone Pattern Crosswalk, Red with White	SQ. FT.			1000						1000
443.101	Removal of Pavement Strips, any width, painted or plastic, compl.	LN. FT.			620						620
460.001	Aluminum Panel Sign, c/p.	SQ.FT.			16						16
460.010	Square Tube Steel Posts & Base Posts for Aluminum Panel Sign, c/p.	LN. FT.			30						30
460.101	Sign, Post, & Base Post, Remove & Salvage, compl.	EACH			4						4
501.020	Existing Drainage Structure or Channel Lining, Reinforced Concrete, Remove & Dispose, compl.	CU. YD.	20								20
601.111	Valve Box, Adjust to Grade, c/p. SD 2332	EACH	4								4
802.010	Tap, 3/4" to 2", on Cast Iron 6" - 10" Waterline Including Jointing Material, and Excluding Pavement Removal and Disposal and Pavement Replacement, compl.	EACH						2			2
802.110	1-1/2" New Water Service Line Including Trenching, Backfill and Compaction, compl.	LN.FT.						20			20
802.110	1-1/2" Meter, Single Service Connection to Existing Watermain Including UEG, Excluding Tap, compl. SD 2363	EACH						2			2
802.510	Water Meter Box, 1-1/2" to 2", incl. concrete pad, cover & pad, c/p. SD 2357	EACH						2			2
910.009	24" Reinforced Concrete Pipe, Class III, furnish & place in open trench, c/p.	LN. FT.	5								5
915.030	Catch Basin, Type "C", Single Grate, c/p. SD 2205	EACH	2								2
915.070	Catch Basin, Existing, Remove & Dispose, any type, incl. cleanup, compl., SD 2200	EACH	2								2
920.010	Manhole, 4' dia., Type "C", less than 6' deep, c/p. SD 2101	EACH	1								1
920.400	Existing Manhole Frame & Cover, adjust to grade with metal rings, 2" or less, c/p. SD 2111	EACH	8								8
1001.00X	Inlet AC Controller w/ Keyboard, IS-11A-U4W-RW- SS-15-KT, 16 Station, Installed in Interspec Enclosure, compl. (Electrical service not included)	EACH			1						1
1001.00X	Solar Assembly for Scorpio AC Controller, IS-S2A-RW-SS, 16 Station, Installed in Interspec Enclosure, compl.	EACH			1						1
1001.00X	Feboe 625YA-1-1/2" Reduced Pressure Backflow Preventer, 1-1/2" Master Valve, and 1-1/2" Master Meter per Dtl. C/4, compl. (Electrical service not included)	EACH			2						2
1001.00X	Hot Rod Enclosure #1 w/ Heater, compl.	EACH			2						2
1001.00X	Plastic Electric Remote Control Valve, 1-1/2", Installed, compl. SD 2703	EACH			4						4
1001.00X	Mainline Gate Valve, 1-1/2", Installed, compl. SD 2708	EACH			2						2
1001.00X	1-1/2" Schedule 40 PVC Mainline Piping with Fittings, including Trenching, Backfill, and Compaction, compl.	LN.FT.			80						80
1001.00X	Electrical Power Drop, compl.	EACH			1						1
1001.00X	Electric Meter, Meter Pedestal, and Associated Permit Fees	EACH			1						1
1001.00X	Electrical Service Wiring, including Trenching, Backfill, and Compaction, compl.	LN.FT.			70						70
1001.00X	Electrical Wire Sizing, from Solar Mounting Pole to Controller, compl.	LN.FT.			10						10
1001.00X	#10 Direct Burial, Valve Wiring, Installed in Trench with Piping, compl.	LN.FT.			120						120
1001.00X	#12 Direct Burial, Valve Wiring, Installed in Trench with Piping, compl.	LN.FT.									0
1001.00X	1-1/2" Schedule 40 PVC Lateral Piping with Fittings, including Trenching, Backfill, and Compaction, compl.	LN.FT.			10						10
1001.00X	1-1/4" Schedule 40 PVC Lateral Piping with Fittings, including Trenching, Backfill, and Compaction, compl.	LN.FT.			230						230
1001.00X	1" Schedule 40 PVC Lateral Piping with Fittings, including Trenching, Backfill, and Compaction, compl.	LN.FT.			320						320
1001.00X	3/4" Schedule 40 PVC Lateral Piping with Fittings, including Trenching, Backfill, and Compaction, compl.	LN.FT.			720						720
1001.00X	2-1/2" Class 200 PVC Sleeve Piping with Fittings, including Trenching, Backfill, and Compaction, compl.	LN.FT.			30						30
1001.00X	2" Class 200 PVC Sleeve Piping for Laterals with Fittings, including Trenching, Backfill, and Compaction, compl.	LN.FT.			520						520
1001.00X	2" Class 200 PVC Sleeve Piping for Electric Service with Fittings, including Trenching, Backfill, and Compaction, compl.	LN.FT.			250						250
1001.00X	Rainbird 1402 Series Bubbler Head, 0.25 gallon per minute, compl., SD 2710 or 2711	EACH			205						205
1001.00X	Rainbird 1404 Series Bubbler Head, 1.0 gallon per minute, compl., SD 2710 or 2711	EACH			15						15
1005.00X	Deciduous Shade Tree, 2" Cal., compl.	EACH			4						4
1005.00X	Shrub, Ornamental Grass, or Groundcover, 5 Gal., compl.	EACH			18						18
1005.00X	Perennial, 1 Gal., compl.	EACH			287						287
XXXX.00X	Santa Fe Brown Crusher Fines Mulch	CU. YD.			25						25
XXXX.00X	Root Barrier	LN. FT.			70						70
XXXX.00X	Planting Medium as per COA Standard Planting Mix	CU.YD.			180						180
XXXX.00X	Clean-up of Debris as a Best Management Practice (BMP) in Accordance with the Storm Water Pollution Prevention Plan.	SQ.FT.			2300						2300
XXXX.00X	Extended Warranty for \$2,500,000 Value of Landscape, compl.	YEAR			2						2

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO
MAKE PAYMENT WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED REQUEST
FOR PAYMENT.

2188 LOUISIANA BLVD., NE
SUITE 900
ALBUQUERQUE, NM 87110
SALES (505) 263-6400
FAX (505) 263-6404

HDR ONE COMPANY
Many Solutions
ENGINEERING INC.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: **CENTRAL AVE BULB OUT PROJECT**
SUMMARY OF QUANTITIES

Design Review Committee	City Engineer Approval	Mr. [Signature]	Mr. [Signature]
City Project No.	792291	Zone Map No.	K-17
Sheet	3	Of	22

WHEELCHAIR ACCESS RAMP, 4" OCC, STD. CURB., CP SD 2418			
ITEM NO. 340.025			
STATION	LOCATION	EACH	REMARKS
INTERSECTION OF CENTRAL AND SOLANO			
13+37.13	34.18' LT.	1	
13+46.40	34.21' RT.	1	
13+56.69	46.32' RT.	1	
13+85.18	46.32' RT.	1	
13+89.61	44.92' LT.	1	
14+18.09	44.37' LT.	1	
14+26.53	34.16' LT.	1	
14+35.92	34.08' RT.	1	
INTERSECTION OF CENTRAL AND JEFFERSON			
13+80.93	31.78' LT.	1	
13+69.61	45.95' LT.	1	
13+69.59	32.78' RT.	1	
13+80.78	45.20' RT.	1	
13+97.84	45.82' LT.	1	
14+06.78	31.89' LT.	1	
14+09.55	45.42' RT.	1	
14+17.44	32.16' RT.	1	
TOTAL		16	
USE		16	

VALVE BOX, ADJUST TO GRADE, CIP. SD 2332			
ITEM NO. 801.111			
STATION	LOCATION	EACH	REMARKS
INTERSECTION OF CENTRAL AND SOLANO			
13+91.26	58.85' L.T.	1	
INTERSECTION OF CENTRAL AND JEFFERSON			
13+74.11	43.73' L.T.	1	
13+86.08	48.96' RT.	1	
13+93.93	34.19' RT.	1	
	TOTAL	4	
	USE	4	

CATCH BASIN, EXISTING, REMOVE & DISPOSE, ANY TYPE, INCL. CLEANUP, COMPL., SD 2200 ITEM NO. 915.070			
STATION	LOCATION	EACH	REMARKS
INTERSECTION OF CENTRAL AND SOLANO			
13+66.00	60' RT.	1	SOUTHWEST QUADRANT
14+35.00	40' LT.	1	NORTHEAST QUADRANT
	TOTAL	2	
	USE	2	

CATCH BASIN TYPE "C", SINGLE GRATE, CIP, SD 2205					
ITEM NO. 915.030					
STATION	LOCATION	TO	STATION	LOCATION	REMARKS
INTERSECTION OF CENTRAL AND SOLANO					
13+67.71	54.14' RT.		13+58.62	61.08' LT.	SOUTHWEST QUADRANT
14+32.24	34.01' LT.		14+39.24	34.00' LT.	NORTHEAST QUADRANT
TOTAL				2	
USE				2	

NOTE: STATIONS AND OFFSETS SHOWN AT FLOW LINE

EXISTING MANHOLE FRAME & COVER, ADJUST TO GRADE WITH METAL RINGS, 2" OR LESS, C/P. SD 2111 ITEM NO. 920.400			
STATION	LOCATION	EACH	REMARKS
INTERSECTION OF CENTRAL AND SOLANO			
13+40.23	42.97' RT.	1	COMMUNICATIONS
13+70.44	38.84' RT.	1	SAS
13+79.60	36.55' RT.	1	SAS
13+87.17	43.08' RT.	1	COMMUNICATIONS
14+02.41	41.94' LT.	1	SAS
14+11.70	57.02' LT.	1	SAS
INTERSECTION OF CENTRAL AND JEFFERSON			
13+68.28	43.00' RT.	1	COMMUNICATIONS
13+83.92	43.25' LT.	1	SAS
13+95.31	46.72' RT.	1	SAS
TOTAL		9	
USE		9	

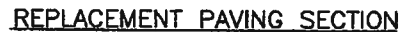
MANHOLE, 4' DIA., TYPE "C", LESS THAN 6' DEEP, CP: SD 2101			
ITEM NO. 820.010			
STATION	LOCATION	EACH	REMARKS
INTERSECTION OF CENTRAL AND SOLANO			
14+38.62	39.96' LT.	1	NORTHEAST QUADRANT
	TOTAL	1	
	USE	1	
NOTE: STATION AND OFFSET SHOWN AT CENTER OF MANHOLE			

24" REINFORCED CONCRETE PIPE, CLASS III, FURNISH & PLACE IN OPEN TRENCH, CP.					
ITEM NO. 910.009					
STATION	LOCATION	STATION	LOCATION	LN. FT.	REMARKS
INTERSECTION OF CENTRAL AND SOLANO					
14+35.71	33.68° LT.	14+36.44	37.97° LT.	4.17	NORTHEAST QUADRANT
			TOTAL	4.17	
			USE	6	
NOTE: STATIONS AND OFFSETS SHOWN AT CENTER OF PIPE					

EXISTING DRAINAGE STRUCTURE OR CHANNEL LINING, REINFORCED CONCRETE, REMOVE & DISPOSE, COMPL.					
ITEM NO. 501.020					
STATION	LOCATION	STATION	LOCATION	CU YD.	REMARKS
INTERSECTION OF CENTRAL AND SOLANO					
13+56.58	60.45' RT.	13+60.08	56.88' RT.	15.71	SOUTHWEST QUADRANT
			TOTAL	15.71	
			USE	20	

PERMANENT SIGNING - SUMMARY OF QUANTITIES																					
		450.001 ALUMINUM PANEL SIGN, CIP.	450.010 SQUARE TUBE STEEL POSTS & BASE POSTS FOR ALUMINUM PANEL SIGN, CIP.										450.010 POSTS & BASE POSTS FOR ALUMINUM PANEL SIGN, CIP.								
SIGN CODE	NO. OF SIGNS	TOTAL SIGN AREA SQ FT	POST LENGTHS				TOP POST MOUNTING REQUIREMENTS						BASE POSTS		BASE POST MOUNTING REQUIREMENTS						
			LEFT	CENTER	RIGHT	TOTAL	U-CHANNEL			SQUARE TUBE POST					U-CHANNEL			SQUARE TUBE POST			
							2.60 LB/FT	3.00 LB/FT	4.00 LB/FT	1.75"X 1.75" 12 ga.	2.0"X 2.0" 12 ga.	2.25"X 2.25" 12 ga.	NO.	TOTAL LENGTH	2.50 LB/FT	3.00 LB/FT	4.00 LB/FT	1.75"X 1.75" 12 ga.	2.0"X 2.0" 12 ga.	2.25"X 2.25" 12 ga.	
R3-5R-30	1	7.50		9.83		9.83								1	3						
R3-7R-30	1	6.26		9.33		9.33							X		1	3					X
TOTAL		13.75				19.17										6					
USE		15				20									10						
* SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN																					

2155 LOURNAWA BLVD., NE SUITE 600 ALBUQUERQUE, NM 87110 NAME: JOHN ECKHARD FAX: (505) 555-0441		 ONE COMPANY <i>Many Solutions</i>				NO. DATE		DESIGNED BY		DRAWN BY		CHECKED BY	
		CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION											
TITLE: CENTRAL AVE BULB OUT PROJECT													
MISCELLANEOUS QUANTITIES CONTINUED													
Design Review Committee				City Engineer Approval				Last Design Update		Mo./Day/Yr.		Mo./Day/Yr.	
City Project No. 792291				Zone Map No. K-17				Sheet 5		Of 22			



- ## WATER VALVE ADJUSTMENT

STA	LOCATION
13+91.26	58.85' LT

UTILITY MANHOLE ADJUSTMENT

<u>STA</u>	<u>LOCATION</u>	<u>UTILITY</u>
13+40.23	42.97' RT.	COMMUNICATIONS
13+70.44	38.84' RT.	SAS
13+79.60	36.55' RT.	SAS
13+97.17	43.09' RT.	COMMUNICATIONS
14+02.41	41.94' LT.	SAS
14+11.70	57.02' LT.	SAS

SCALE 1"=20'

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	48°44'48"	10.00	8.51	4.53
C2	48°36'49"	10.00	8.48	4.52
C3	71°31'33"	10.00	12.48	7.20
C4	24°13'03"	10.00	4.23	2.15
C5	24°03'44"	10.00	4.20	2.13
C6	25°42'16"	10.00	4.49	2.28
C7	25°30'49"	10.00	4.45	2.26
C8	39°55'19"	10.00	6.97	3.63
C9	71°45'28"	5.00	6.26	3.62
C10	72°33'50"	5.00	6.33	3.67
C11	47°37'25"	10.00	8.31	4.41
C12	47°29'01"	10.00	8.29	4.40
C13	56°38'01"	10.00	9.88	5.39
C14	36°23'05"	10.00	6.35	3.29
C15	36°38'31"	10.00	6.40	3.31
C16	40°49'15"	10.00	7.12	3.72
C17	36°29'01"	10.00	6.37	3.30
C18	82°16'50"	10.00	14.36	8.74
C19	48°56'25"	10.00	8.54	4.55
C20	49°08'36"	10.00	8.58	4.57

CURVE DATA SHOWN AT FLOWLINE OF
CURB & GUTTER

2155 LOUISIANA BLVD., N.
SUITE 8900
ALBUQUERQUE, NM 87111
MAIL: (505) 830-5400
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HDR
FLUORESCENCE INC.

ONE COMPANY
Many Solutions.

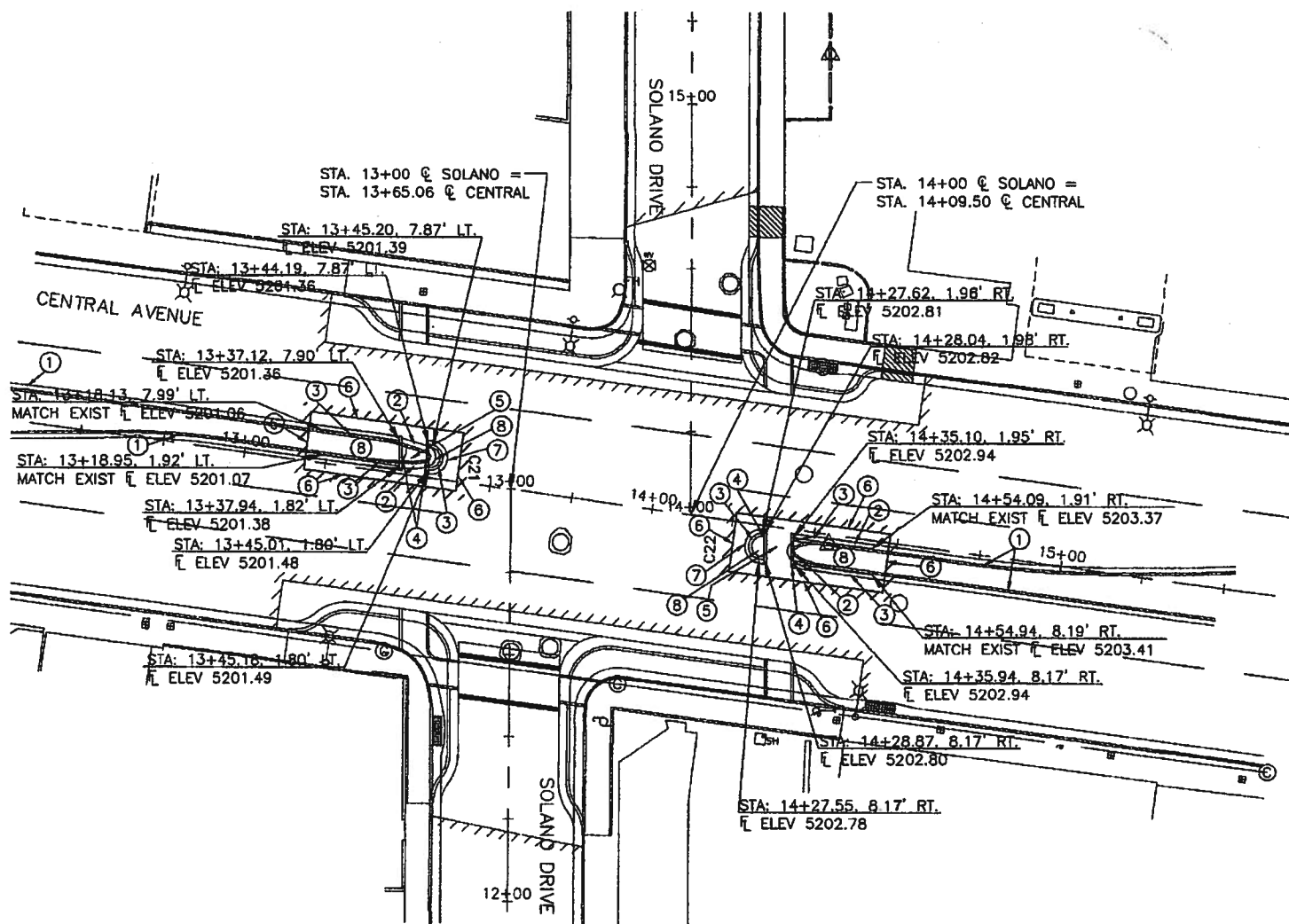


CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: **CENTRAL AVE BULB OUT PROJECT**
CENTRAL/SOLANO INTERSECTION PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	792291	Zone Map No.	K-17	Sheet	6	Of	2
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4" ARTERIAL ASPHALT CONCRETE SP III

4" TACK COAT ARTERIAL ASPHALT CONCRETE SP III PRIME COAT

6" AGGREGATE BASE COURSE

12" SUBGRADE PREPARATION

○ KEYED NOTES:

- ① EXISTING CURB AND GUTTER TO REMAIN
- ② REMOVE EXISTING CURB AND GUTTER
- ③ CITY OF ALBUQUERQUE STANDARD MOUNTABLE MEDIAN CURB, SEE STD. DWG 2415B
- ④ CITY OF ALBUQUERQUE STANDARD HEADER CURB, SEE STD. DWG 2415B
- ⑤ PORTLAND CEMENT CONCRETE, 4" THICK: TEXTURED COLORED CONCRETE. COLOR TO BE DETERMINED BY THE CITY OF ALBUQUERQUE PROJECT MANAGER.
- ⑥ LIMITS OF REMOVAL. SAWCUT EXISTING SURFACING TO A NEAT STRAIGHT LINE
- ⑦ PAINT MEDIAN NOSES YELLOW
- ⑧ LANDSCAPE AREA: INCLUDES PLANTINGS, COLORED CONCRETE, IRRIGATION AND OTHER COMPONENTS, SEE LANDSCAPE PLANS FOR DETAILS

MEDIAN NOSES SHALL BE PAINTED WITH REFLECTIVE YELLOW PAINT FROM NOSE BACK 5' OR TO THE P.C., WHICH EVER IS GREATER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO SIGNING AND STRIPING AND NO ADDITIONAL PAYMENT SHALL BE MADE THEREFOR.



SCALE 1"=20'

CURVE TABLE				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C21	172°10'10"	3.04	9.13	44.42
C22	176°13'32"	3.10	9.53	94.08

CURVE DATA SHOWN AT FLOWLINE OF CURB & GUTTER

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FAX: (505) 830-6424



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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE:

CENTRAL/SOLANO MEDIAN PLAN

Design Review Committee

City Engineer Approval

Cost Design Update

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Day/yr.

No. / Date _____

7/11

City Project No.

792291

Zone Map No.
K-17

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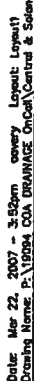
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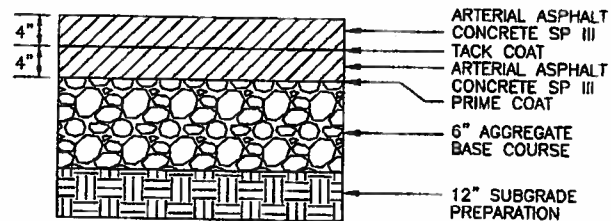
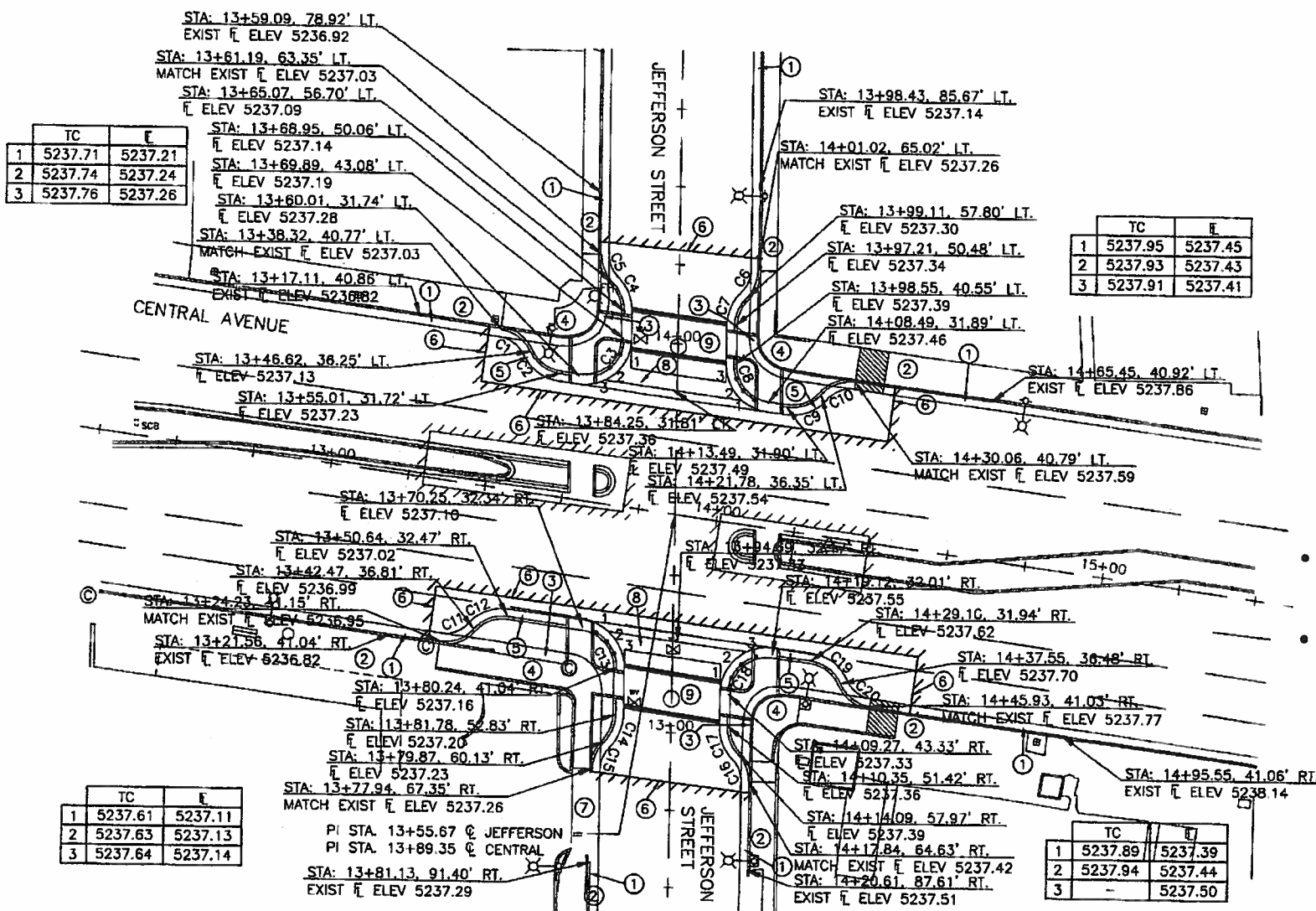
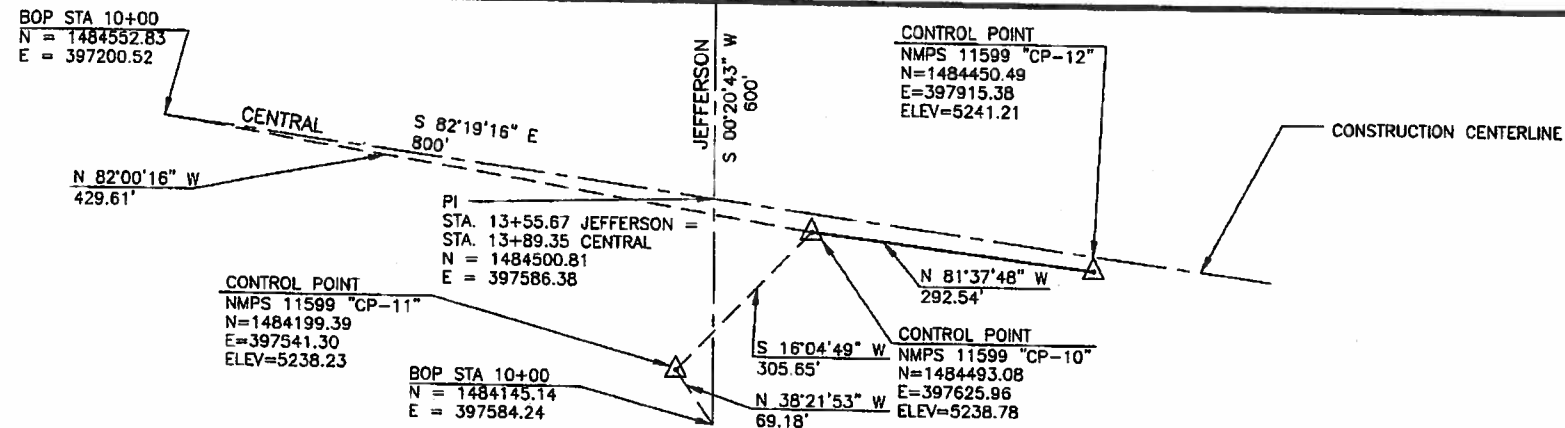
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Design Review Committee	City Engineer Approval	Last Design Update	Mr./Ms./Dr.	Mr./Ms./Dr.			
City Project No.	792291	Zone Map No	K-17	Sheet	8	Of	22



- FOR MEDIAN DESIGN INFORMATION, SEE "CENTRAL/JEFFERSON MEDIAN PLAN" SHEET
- FOR SIDEWALK AND RAMP INFORMATION SEE "CENTRAL/SOLANO SIDEWALK AND RAMP DETAILS" SHEET

WATER VALVE ADJUSTMENT

STA	LOCATION
13+74.11	43.73' LT.
13+86.08	48.96' RT.
13+93.93	34.19' RT.

UTILITY MANHOLE ADJUSTMENT

STA	LOCATION	UTILITY
13+68.26	43.00' RT.	COMMUNICATIONS
13+83.92	43.25' LT.	SAS
13+95.31	46.72' RT.	SAS

KEYED NOTES:

- EXISTING CURB AND GUTTER TO REMAIN
- EXISTING SIDEWALK TO REMAIN
- REMOVE EXISTING CURB AND GUTTER
- REMOVE EXISTING SIDEWALK
- CITY OF ALBUQUERQUE STANDARD CURB AND GUTTER, SEE STD. DWG 2415A
- LIMITS OF REMOVAL. SAWCUT EXISTING SURFACING TO A NEAT STRAIGHT LINE
- EXISTING DRIVEWAY TO REMAIN
- CITY OF ALBUQUERQUE SPECIAL VALLEY GUTTER, SEE STD. DWG 2422
- DECOMARK HERRINGBONE PATTERN CROSSWALK, RED WITH WHITE

SCALE 1"=20'

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	56°23'07"	10.00	9.84	5.36
C2	56°58'28"	10.00	9.94	5.43
C3	67°36'33"	10.00	11.80	6.70
C4	45°14'53"	10.00	7.90	4.17
C5	45°16'01"	10.00	7.90	4.17
C6	43°52'35"	10.00	7.66	4.03
C7	44°24'25"	10.00	7.75	4.08
C8	63°25'12"	10.00	11.07	6.18
C9	56°04'23"	10.00	9.79	5.33
C10	56°02'48"	10.00	9.78	5.32
C11	55°30'48"	10.00	9.69	5.26
C12	55°09'30"	10.00	9.63	5.22
C13	66°06'58"	10.00	11.54	6.51
C14	44°17'29"	10.00	7.73	4.07
C15	43°55'32"	10.00	7.67	4.03
C16	44°59'27"	10.00	7.85	4.14
C17	44°17'04"	10.00	7.73	4.07
C18	58°53'44"	10.00	10.28	5.65
C19	57°19'00"	10.00	10.00	5.47
C20	56°54'01"	10.00	9.93	5.42

CURVE DATA SHOWN AT FLOWLINE OF CURB & GUTTER



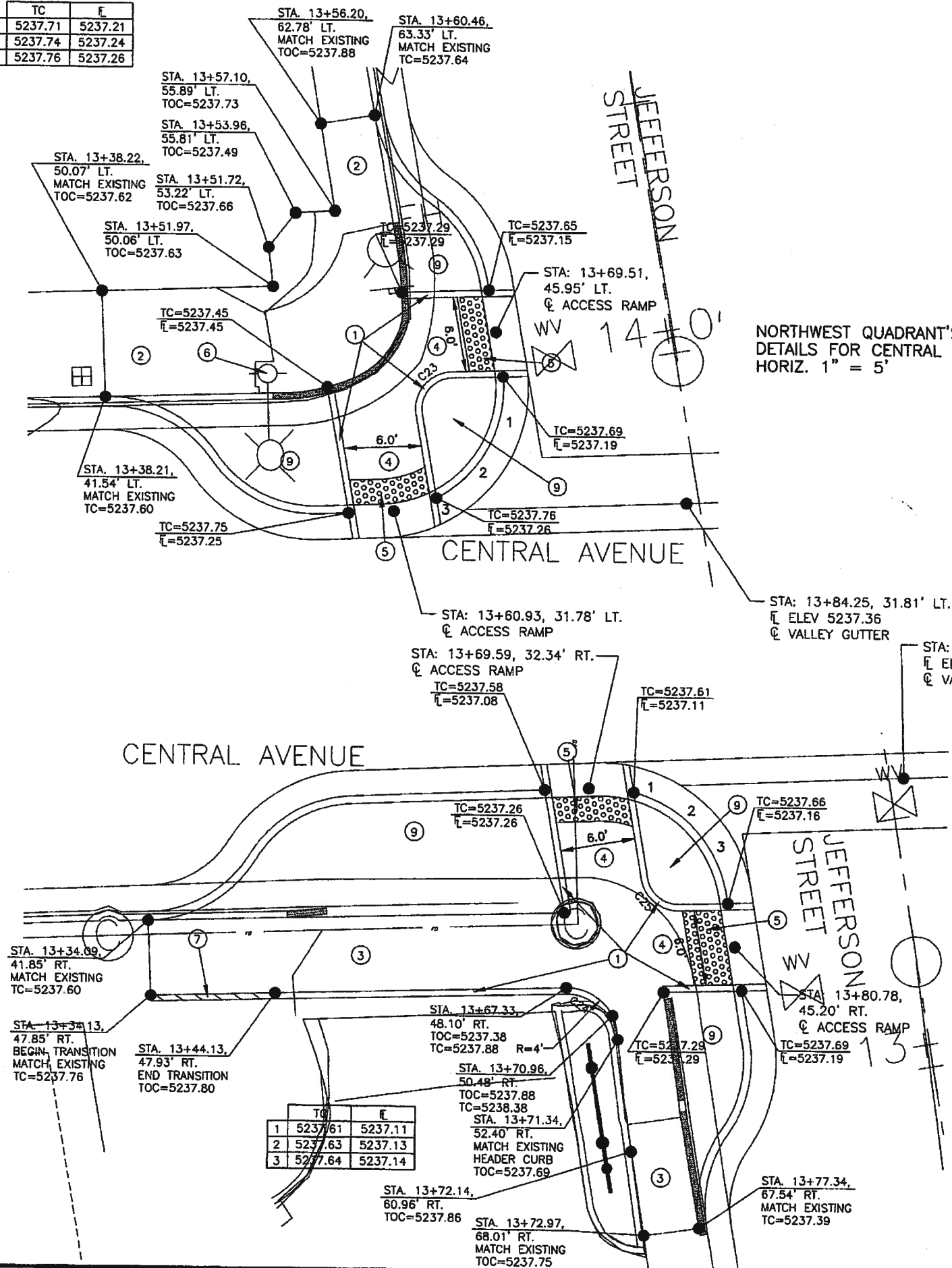
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: **CENTRAL/JEFFERSON INTERSECTION PLAN**

Design Review Committee	City Engineer Approval	NO. DATE	REVISIONS
City Project No. 792291	Zone Map No. K-17	Sheet 10	Of 22



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| Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr. | | | |
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| City Project No. | 792291 | Zone Map No | K-17 | Sheet | 11 | Of | 22 |

TC	E
1 5237.71	5237.21
2 5237.74	5237.24
3 5237.76	5237.26



NORTHWEST QUADRANT'S SIDEWALK AND CURB RAMP
DETAILS FOR CENTRAL AVENUE AND JEFFERSON STREET
HORIZ. 1" = 5'

SOUTHWEST QUADRANT'S SIDEWALK AND CURB RAMP
DETAILS FOR CENTRAL AVENUE AND JEFFERSON STREET
HORIZ. 1" = 5'

KEYED NOTES:

- CITY OF ALBUQUERQUE STANDARD HEADER CURB, SEE STD DWG 2415B
- CONCRETE SIDEWALK, 4" THICK: TEXTURED COLORED CONCRETE. COLOR AND PATTERN TO BE DETERMINED BY THE CITY OF ALBUQUERQUE PROJECT MANAGER
- CONCRETE SIDEWALK, 4" THICK
- CONSTRUCT ADA RAMP
- UNLESS OTHERWISE NOTED TRUNCATED DOME STRIP SHALL BE 2' WIDE x LENGTH OF RAMP, 6' MIN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- EXISTING PNM STREET LIGHT TO REMAIN
- TRANSITION FROM FLUSH WITH TOP OF CONCRETE OR ASPHALT TO FULL HEADER CURB HEIGHT
- TRANSITION FROM FULL HEIGHT OF CURB AND GUTTER, SIDEWALK, AND HEADER CURB TO FLUSH WITH EXISTING CONCRETE OR ASPHALT
- LANDSCAPE AREA: INCLUDES PLANTINGS, COLORED CONCRETE, IRRIGATION AND OTHER COMPONENTS, SEE LANDSCAPE PLANS FOR DETAILS

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C23	97°41'16"	3.00	5.11	3.43
C24	43°48'55"	3.50	2.88	1.41
C25	81°53'35"	3.00	4.29	2.60

CURVE DATA SHOWN AT BACK OF HEADER CURB

AS BUILT INFORMATION	
CONTRACTOR	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
RECORDED BY	DATE

BENCH MARKS	
NO.	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE

ENGINEER'S SEAL	

REVISIONS	
NO.	DATE

CITY OF ALBUQUERQUE	

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MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

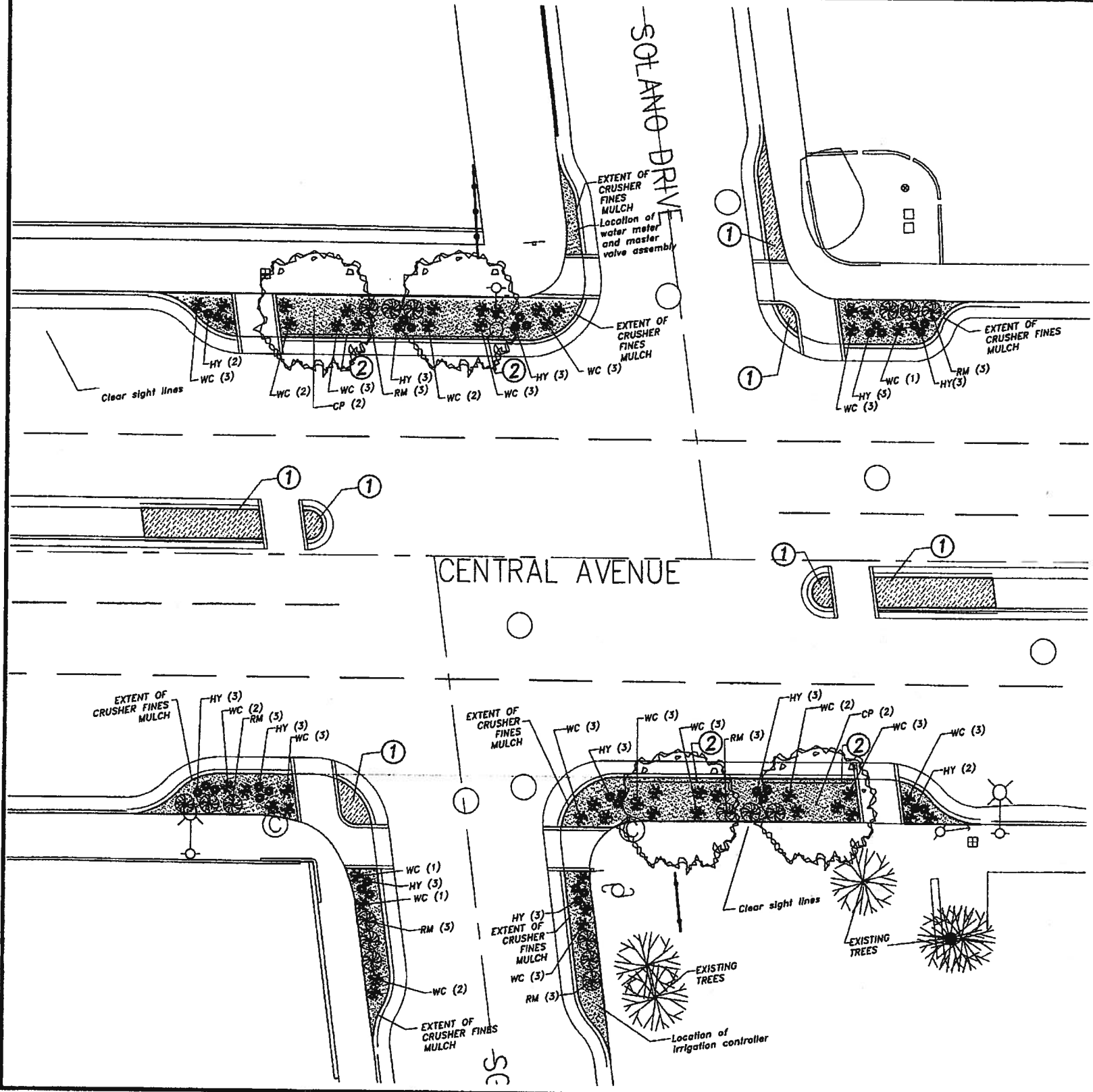
TITLE: CENTRAL AVE BULB OUT PROJECT

CENTRAL/JEFFERSON SIDEWALK & RAMP DETAILS

Design Review Committee: _____ City Engineer Approval: _____

City Project No. 792291 Zone Map No. K-17 Sheet 12 Of 22

PLANT LIST						
Trees						
Symbol	Common Name	Scientific Name	Quantity	Installed	Size	Remarks
CP	CHINESE PISTACHE	PISTACHIA CHINENSIS	4	2" cal. 7'-14' hgt.	40' hgt x 25' spd	B+B
Shrubs, Perennials and Grasses						
Symbol	Common Name	Scientific Name	Quantity	Installed	Size	Remarks
RM	'REGAL MIST' MUHLY GRASS	MUHLENBERGIA CAPILLARIS 'REGAL MIST'	18	1' min hgt.	3' hgt x 3' spd	5-Gal
WC	WINE CUPS (POPPY MALLOW)	CALLIRHOE INYOLCRATA	49	3" min hgt.	8" hgt x 24-30" spd	1-Gal
HY	HARRIMAN'S YUCCA	YUCCA HARRIMANIAE	34	6" min hgt.	6"-2' ht. x 1' spd.	1-Gal
	SANTA FE BROWN CRUSHER FINES MULCH					



- ### PLANTING NOTES
- IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LIST AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY DISCREPANCIES IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT LIST.
 - ALL PLANTING BEDS SHALL BE COVERED WITH 4" DEPTH SANTA FE BROWN CRUSHER FINES MULCH OVER DEWITT 5 OZ. WEED BARRIER FABRIC, OR APPROVED EQUAL, TO EXTENTS SHOWN ON PLAN. OVERLAP ENDS OF FABRIC 3". TURN DOWN EDGES 6". TOP OF MULCH SHALL BE 2" BELOW TOP OF CURB.
 - ALL TREES, GRASSES AND PERENNIALS SHALL BE PLANTED PER DETAILS D21 AND E21. TREES SHALL BE A MINIMUM OF 12 FEET IN HEIGHT AND SHALL HAVE NO BRANCHES WITHIN 7 FEET OF THE TOP OF THE ROOT BALL. THERE SHALL BE NO SIGNS OF RECENT PRUNING, INCLUDING NICKS. CONTRACTOR SHALL OBTAIN APPROVAL ON TREE SELECTIONS FROM ALBUQUERQUE CITY FORESTER, NICHOLAS KUHN, 505-788-2708 PRIOR TO INSTALLATION.
 - IF THERE IS A DISCREPANCY IN THE FIELD OR NURSERY PLANTS BETWEEN THE CONTAINER SIZE CALLED OUT UNDER "REMARKS" AND HEIGHT CALLED OUT UNDER "INSTALLED SIZE", THE SPECIFIED PLANT MUST MEET HEIGHT REQUIREMENTS SPECIFIED UNDER "SIZE", EVEN IF THE LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
 - PLANTING BEDS SHALL BE EXCAVATED TO A DEPTH OF 3 FT. IN BEDS THAT CONTAIN TREES, FILLED WITH PLANTING MEDIUM AND GENTLY COMPACTED.
 - ALL PLANTING BEDS SHALL HAVE A 1 FOOT BUFFER BETWEEN MATURE PLANTS AND BACK OF CURB, AS SHOWN ON PLAN.
 - SOIL AND DEBRIS REMOVED FROM PROJECT SITE SHALL BE DISPOSED OF IN AN APPROVED WASTE MANAGEMENT SITE.
 - CONTRACTOR SHALL VERIFY PAVING TYPE AND COLOR WITH CITY PROJECT MANAGER FOR BIDDING PURPOSES. SEE KEYED NOTE #1 BELOW.
 - CONTRACTOR SHALL PROTECT EXISTING UTILITIES INCLUDING LOOP DETECTORS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. CONTRACTOR SHALL REPAIR OR REPLACE UTILITIES DAMAGED BY CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.

- ### KEYED NOTES
- 4" THICK 3000 PSI CONCRETE, WITH INTEGRAL COLOR, DAVIS COLOR # 5084 'HARVEST GOLD', WITH MEDIUM BROOM FINISH. PIGMENTS SHALL BE MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AT A RATE OF 2 LBS. OF PIGMENT TO EACH BAG (94 LBS.) OF CEMENT. MIX UNTIL PIGMENTS ARE UNIFORMLY DISPERSED THROUGHOUT MIXTURE AND DISINTEGRATING BAGS, IF USED, HAVE DISINTEGRATED. CONCRETE MIX SHALL BE IN ACCORDANCE WITH C.O.A. STANDARD MIX DESIGN AND SHALL BE CERTIFIED BY THE CITY OF ALBUQUERQUE PRIOR TO USE.
 - 24" DEEPROOT LINEAR TREE ROOT BARRIER, AVAILABLE FROM DEEPROOT PARTNERS LP, (800) 458-7668, OR APPROVED EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2100 LUISIANA BLVD., NE
ALBUQUERQUE, NM 87110
(505) 263-0000
FAX (505) 263-0001

HDR
ENGINEERING INC.

ONE COMPANY
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: CENTRAL AVE BULB OUT PROJECT
CENTRAL AND SOLANO INTERSECTION
PLANTING PLAN

Design Review Committee: City Engineer Approval

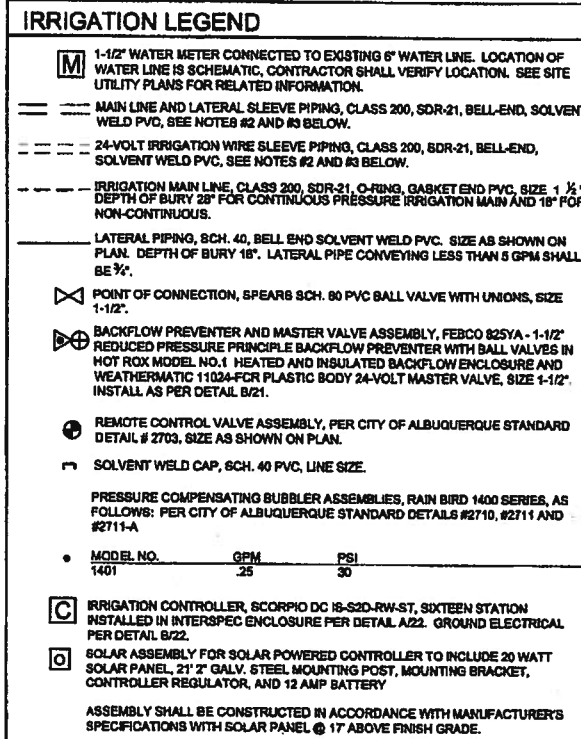
City Project No. 792291

Zone Map No. K-17

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AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
STANDARD BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
APPROVED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
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REVISIONS
NO. DATE BY
1 3-16-07 HDR ENGINEERING INC.
2 3-16-07 HDR ENGINEERING INC.
3 3-16-07 HDR ENGINEERING INC.



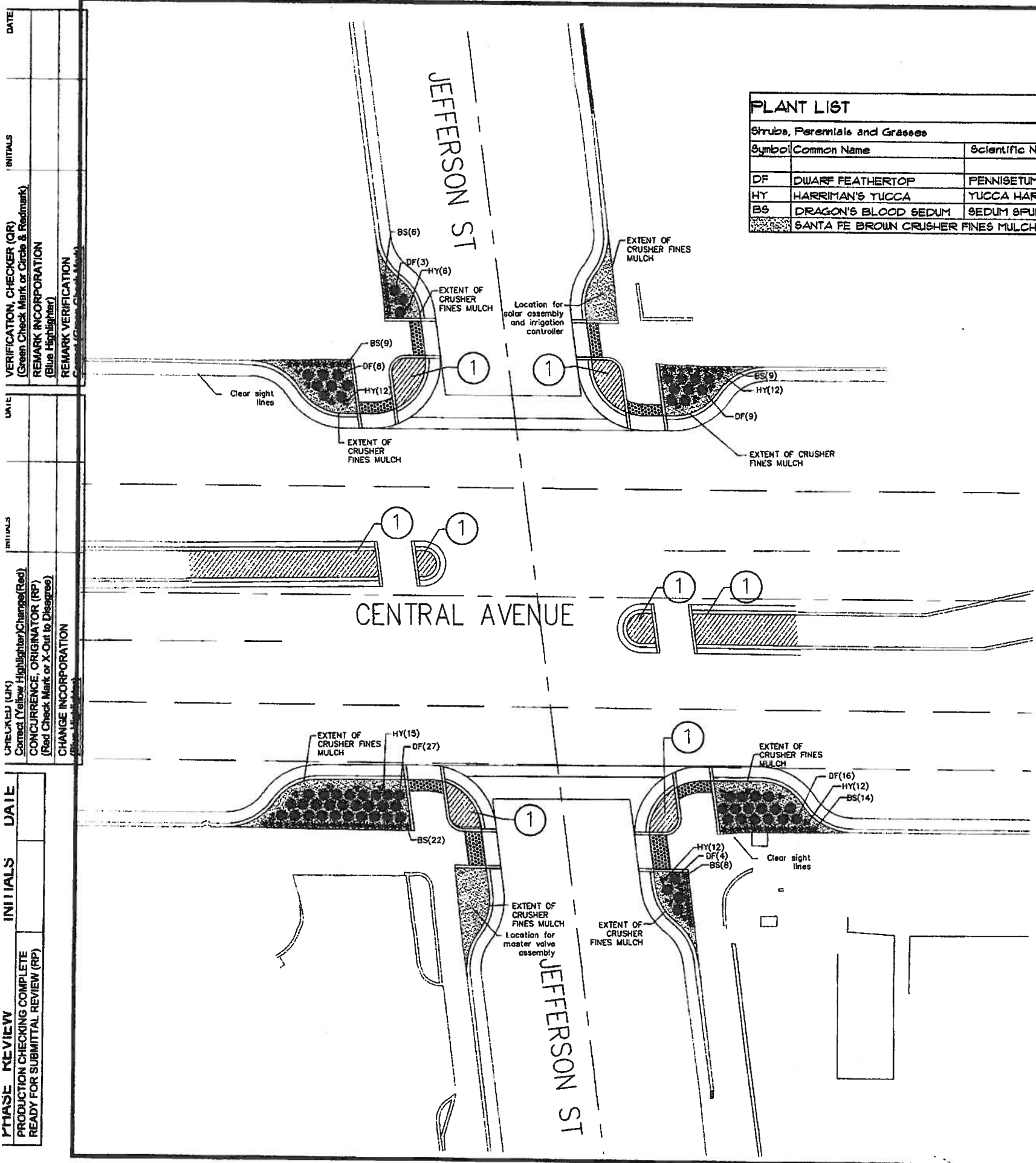
1. THIS SYSTEM WAS DESIGNED AT A MINIMUM STATIC PRESSURE OF 50 PSI AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY ACTUAL PSI AND DELIVER RESULTS TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. IN THE EVENT THE ACTUAL PSI IS LESS THAN 50 PSI, THE CONTRACTOR SHALL RECEIVE DIRECTION FROM LANDSCAPE ARCHITECT REGARDING NECESSARY DESIGN MODIFICATIONS, IF APPLICABLE. THE PRESSURE READING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S AUTHORIZED REPRESENTATIVE. RESULTS SHALL BE INCLUDED IN THE CONTRACTOR'S IRRIGATION EQUIPMENT SUBMITTAL INDICATING DATE AND TIME OF PRESSURE READING AND THE NAME OF ATTENDING OWNER'S REPRESENTATIVE.
2. ALL PIPING, MAINLINE AND LATERAL, AND WIRING UNDER PAVED SURFACES SHALL BE SLEEVED. SLEEVES FOR IRRIGATION LINES SHALL BE CLASS 200, SDR-21, BELI-END, SOLVENT WELD PVC 2 SIZES LARGER THAN PIPE OR SIZE AS REQUIRED TO ACCOMMODATE LENGTH OF RUN. SLEEVES FOR WIRE SHALL BE MIN. 2", OR SIZE AS REQUIRED TO ACCOMMODATE QUANTITY OF WIRE. SLEEVING SHALL EXTEND INTO PLANTING BED A MIN. OF 6" BEYOND BACK OF CURB OR EDGE OF PAVING.
3. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SLEEVE PIPING WITH ALL TRADES TO INSURE THAT SLEEVES ARE INSTALLED PROPERLY PRIOR TO INSTALLATION OF CURB AND GUTTER, ASPHALT PAVING, SIDEWALKS, CONCRETE PADS, ETC.
4. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT PROPOSED IRRIGATION SYSTEM IN ACCORDANCE WITH PLANS, WRITTEN SPECIFICATIONS AND DETAILS.
5. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CIRCUITS FROM SOLAR PANEL TO IRRIGATION CONTROLLER AND BACKFLOW PREVENTER ENCLOSURE (ONE TO EACH). ALL WORK AND MATERIALS SHALL MEET LOCAL CODES AND THE NATIONAL ELECTRIC CODE (N.E.C.). CONTRACTOR SHALL ENSURE THAT SCOPIC CONTROLLER COMMUNICATES WITH IRINET CONTROLLER AT CENTRAL AND SOLANO.
6. PRIOR TO FINAL PROJECT ACCEPTANCE THE CONTRACTOR SHALL COMPLETE THE FOLLOWING:
 - A. INSTALL ONE CONTROLLER CHART IN CONTROLLER ENCLOSURE. SUBMIT TWO CONTROLLER CHARTS TO PARK MANAGEMENT.
 - B. HAVE BACKFLOW PREVENTOR TESTED, INSPECTED AND TAGGED WITH APPROVAL.
 - C. SUBMIT RECORD (AS-BUILT) DRAWINGS ON AUTOCAD (TWO ELECTRONIC COPIES ON CD AND ONE PAPER COPY) IN ADDORDANCE WITH THE C.O.A. D.P.A. CHAPTER 67.
 1. INCLUDE SQUARE FOOTAGE OF PROJECT
 2. INCLUDE LIST OF PLANTS INSTALLED AND QUANTITY OF EACH.
 3. INCLUDE WATER METER ADDRESS.
 4. INCLUDE ANY EASEMENTS THAT MAY HAVE BEEN CREATED FOR THE PROJECT (FOR IRRIGATION COMPONENTS OUTSIDE THE RIGHT-OF-WAY).
 - D. PROVIDE KEYS FOR IRRIGATION COMPONENTS TO OWNER.
7. A RAINBIRD 'AR' OR EQUAL AIR RELIEF VALVE SHALL BE INSTALLED AT HIGH POINT OF MAIN LINE PER C.O.A. STANDARD DWG. 2705
8. BUBBLERS SHALL BE 1" ABOVE TOP OF MULCH.
9. BACKFLOW PREVENTER ENCLOSURE SHALL HAVE HINGED LID AND CLASP FOR LOCK (LOCK BY OWNER). CONTRACTOR SHALL ENSURE THAT CLASP IS ADEQUATE LENGTH TO ACCOMMODATE LOCK.
10. BACKFLOW PREVENTER SHALL BE TESTED BY A CERTIFIED REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTION DEVICE TESTER.
11. A 2" CLEARANCE SHALL BE PROVIDED BETWEEN TOP OF GRAVEL IN VALVE BOX AND BOTTOM OF VALVE AND PIPE. DEPTH OF GRAVEL IN VALVE BOX SHALL BE 6".
12. BLOCKS AT BASE OF VALVE BOXES SHALL BE SOLID CMU 8" X 8" X 16".
13. CONTRACTOR SHALL PROTECT EXISTING UTILITIES, INCLUDING LOOP DETECTORS, FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. CONTRACTOR SHALL REPAIR OR REPLACE UTILITIES DAMAGED BY CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

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HDR
ENGINEERING INC.

ONE COMPANY
Many Solutions.

Design Review Committee	City Engineer Approval	Last Design Update	Iss./Rev./Fr.	Iss./Rev./Fr.
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PLANT LIST

Shrubs, Perennials and Grasses						
Symbol	Common Name	Scientific Name	Quantity	Size		Remarks
				Installed	Mature	
DF	DWARF FEATHERTOP	PENNISETUM VILLOSUM	67	6" min hgt	2' hgt x 2' spd	1-Gal
HY	HARRIMAN'S YUCCA	YUCCA HARRIMANIAE	69	6" min hgt	6-24" hgt x 12" spd	1-Gal
BS	DRAGON'S BLOOD SEDUM	SEDUM SPURIUM	68	6" min width	6" hgt x 15" spd	1-Gal
	SANTA FE BROWN CRUSHER FINES MULCH		32 cu yd			

PLANTING NOTES

- IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LIST AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY DISCREPANCIES IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT LIST.
- ALL PLANTING BEDS SHALL BE COVERED WITH 4" DEPTH SANTA FE BROWN CRUSHER FINES MULCH OVER DEWITT 5 OZ. WEED BARRIER FABRIC, OR APPROVED EQUAL, TO EXTENTS SHOWN ON PLAN. OVERLAP ENDS OF FABRIC 6". TURN DOWN EDGES 6". TOP OF MULCH SHALL BE 2" BELOW TOP OF CURB.
- ALL GRASSES AND PERENNIALS SHALL BE PLANTED PER DETAIL E/21.
- IF THERE IS A DISCREPANCY IN THE FIELD OR NURSERY PLANTS BETWEEN THE CONTAINER SIZE CALLED OUT UNDER "REMARKS" AND HEIGHT CALLED OUT UNDER "INSTALLED SIZE", THE SPECIFIED PLANT MUST MEET HEIGHT REQUIREMENTS SPECIFIED UNDER "SIZE", EVEN IF THE LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
- PLANTING BEDS SHALL BE EXCAVATED TO A DEPTH OF 2 FT. IN PLANTING BEDS UNLESS OTHERWISE SPECIFIED.
- ALL PLANTING BEDS SHALL HAVE A 1 FOOT BUFFER BETWEEN MATURE PLANTS AND BACK OF CURB, AS SHOWN ON PLAN.
- SOIL AND DEBRIS REMOVED FROM PROJECT SITE SHALL BE DISPOSED OF IN AN APPROVED WASTE MANAGEMENT SITE.
- CONTRACTOR SHALL VERIFY PAVING TYPE AND COLOR WITH CITY PROJECT MANAGER FOR BIDDING PURPOSES. SEE KEYED NOTE #1 BELOW.
- CONTRACTOR SHALL PROTECT EXISTING UTILITIES INCLUDING LOOP DETECTORS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. CONTRACTOR SHALL REPAIR OR REPLACE UTILITIES DAMAGED BY CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.

KEYED NOTES

- ① 4" THICK 3000 PSI CONCRETE, WITH INTEGRAL COLOR, DAVIS COLOR # 5084 HARVEST GOLD, WITH MEDIUM BROOM FINISH. PIGMENTS SHALL BE MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. AT A RATE OF 2 LBS. OF PIGMENT TO EACH BAG (94 LBS.) OF CEMENT. MIX UNTIL PIGMENTS ARE UNIFORMLY DISPERSED THROUGHOUT MIXTURE AND DISINTEGRATING BAGS, IF USED, HAVE DISINTEGRATED.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
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STATE OF NEW MEXICO
JULIA KOWALSKI
387
REGISTERED LANDSCAPE ARCHITECT

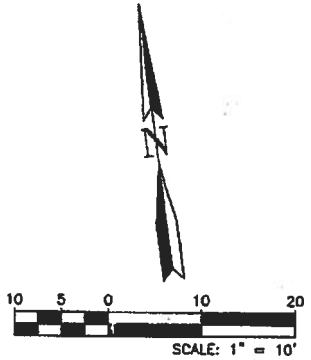
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CHECKED BY: JK

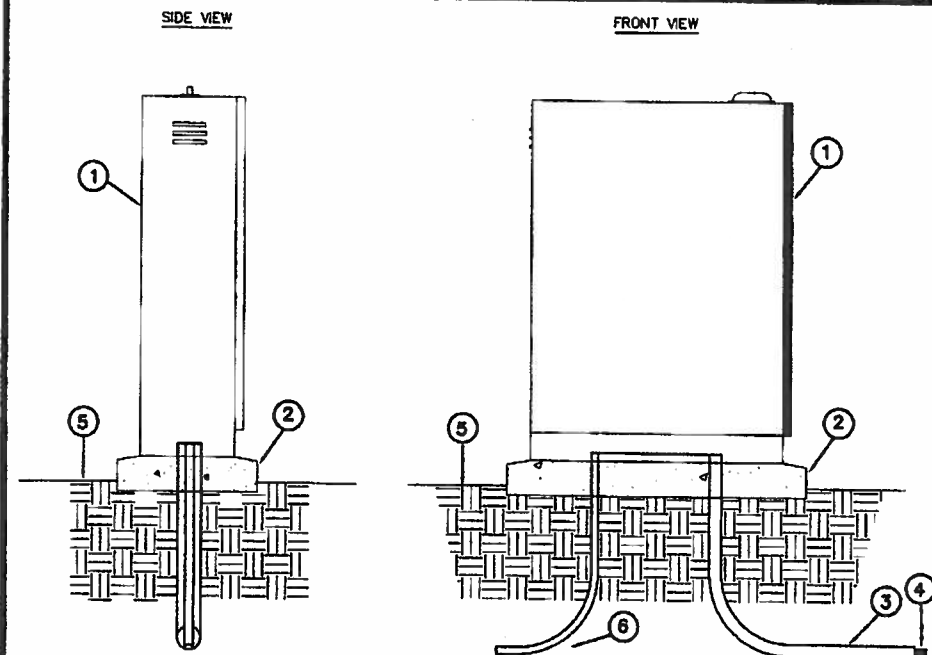
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: CENTRAL AVE BULB OUT PROJECT
CENTRAL AND JEFFERSON INTERSECTION
PLANTING PLAN

Design Review Committee	City Engineer Approval	Map Date/Rev	Map Date/Rev
City Project No.	Zone Map No.	Sheet	Of
792291		20	22

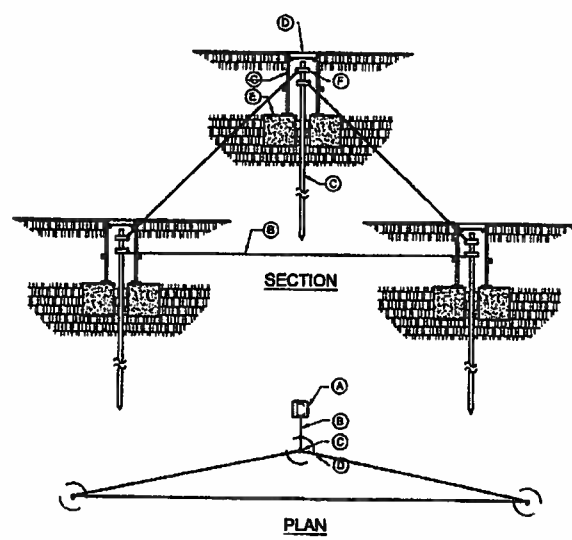




- ① IRRIGATION CONTROLLER WITH PEDESTAL. SEE IRRIGATION LEGEND. INSTALL TO MANUFACTURER'S SPECIFICATIONS.
- ② 4000 PSI CONCRETE BASE. 8" MINIMUM THICKNESS. ALL EDGES SHALL BE TOOLED WITH 1/2" RADIUS.
- ③ 4" RIGID PVC LONG SWEEP ELL. EXTEND 12" BEYOND ADJACENT WALKS.
- ④ 24-VOLT WIRES FROM CONTROLLER TO AUTOMATIC VALVES. SEE SPECIFICATIONS.
- ⑤ FINISH GRADE.
- ⑥ 120-VOLT SERVICE IN CONDUIT, PER N.E.C.

A 21 AC IRRIGATION CONTROLLER AND PEDESTAL

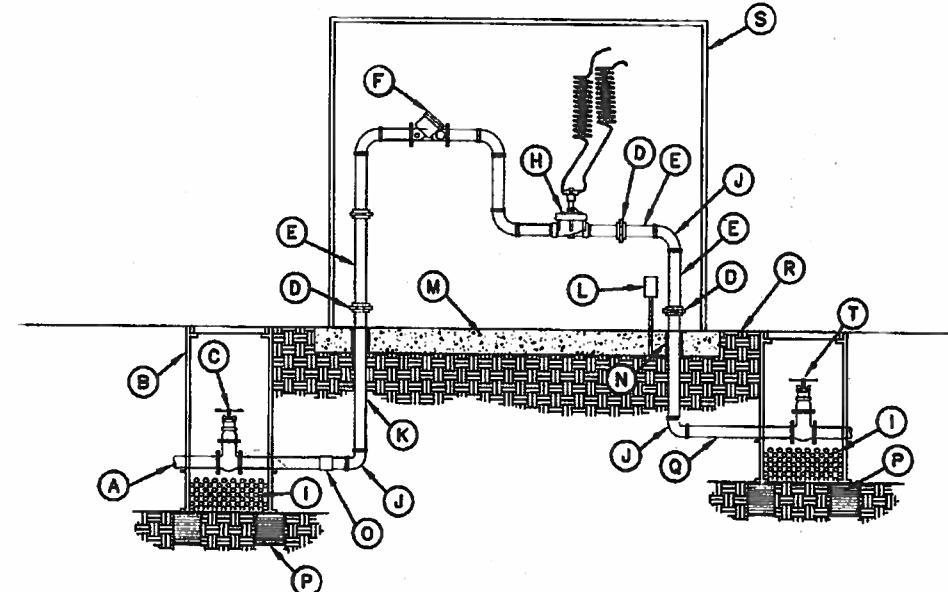
NTS



- KEY (TYPICAL)**
- ① IRRIGATION CONTROLLER, SEE IRRIGATION LEGEND.
 - ② #10 AWG WIRE FROM IRRIGATION CONTROLLER TO GROUND ROD CLAMP. WIRE SHALL BE INSTALLED STRAIGHT AND TAUT.
 - ③ 6' LENGTH GROUND ROD, PLACE IN IRRIGATED AREA A MINIMUM OF 16' FROM ONE ANOTHER W/ ONE ROD A MIN. 12' FROM CONTROLLER. (OPTION: REPLACE GROUNDING RODS W/ 1 EA. 1/2" X 12' X 16" COPPER, BURIED @ 12" DEPTH. SOLDER #8 BARE COPPER WIRE TO PLATE).
 - ④ 7" DIAMETER X 6" DEEP BROOKS 700 SERIES VALVE BOX WITH COVER.
 - ⑤ 8" X 6" X 16" SOLID CMU BLOCK.
 - ⑥ GROUND ROD CLAMP.
 - ⑦ DRILL A SMALL OPENING IN VALVE BOX TO MAINTAIN WIRE TIGHTNESS.

C 21 IRRIGATION CONTROLLER GROUNDING DETAIL

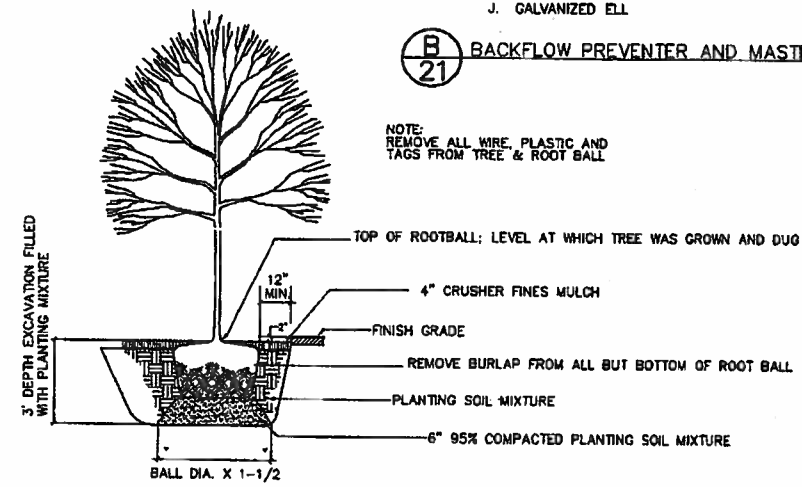
NTS



- KEYED NOTES**
- A. SERVICE LINE TO WATER METER
 - B. BROOKS PRODUCTS INC. 1730 PB-18 BODY (ABS) VALVE BOX W/ BOLT DOWN COVER (ABS) AND ONE 8" EXTENSION
 - C. TRUE UNION SCHEDULE 8" PVC BALL VALVE
 - D. GALVANIZED UNION (MIN 4" ABOVE GRADE)
 - E. GALVANIZED NIPPLE
 - F. FIBCO MODEL 825YA RPBP BACKFLOW PREVENTER
 - G. (NOT USED)
 - H. RAINBIRD PEB PLASTIC BODY 24 VOLT AUTOMATIC MASTER VALVE
 - I. 1" WASHED ROCK
 - J. GALVANIZED ELL
 - K. GALVANIZED RISER
 - L. 110V ELECTRICAL OUTLET FOR HEATED PROTECTIVE ENCLOSURE. PLACE AWAY FROM RELIEF VALVE
 - M. MIN 4" 4000 PSI CONCRETE SLAB
 - N. PVC SLEEVING & INSULATION (MIN 1" THICK)
 - O. PVC MIP ADAPTER
 - P. 8"x8"x16" SOLID CMU BLOCK
 - Q. NON-CONSTANT PRESSURE IRRIGATION MAINLINE.
 - R. FINISH GRADE
 - S. PROTECTIVE ENCLOSURE
 - T. MASTER METER

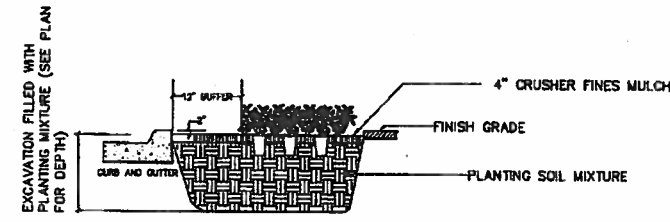
B 21 BACKFLOW PREVENTER AND MASTER VALVE

NTS



D 21 TREE PLANTING DETAIL

NTS



E 21 PERENNIAL AND GRASS PLANTING DETAIL

NTS

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		NO. DATE		BY		REMARKS		NO. DATE		BY		REMARKS		NO. DATE		BY		REMARKS	
CONTRACTOR				FIELD NOTES				HDR ENGINEERING INC.																			
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CORRECTED BY		DATE		BY				DATE																			
MICRO-FILM INFORMATION																											
REPRODUCED BY		DATE																									
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: CENTRAL AVE BULB OUT PROJECT
CENTRAL AND JEFFERSON INTERSECTION
IRRIGATION AND PLANTING DETAILS

Design Review Committee City Engineer Approval

City Project No. 792291 Zone Map No. K-17 Sheet 21 of 22



ONE COMPANY <i>Many Solutions</i>		ENGINEER'S SEAL 		SURVEY INFORMATION FIELD NOTES		BENCH MARKS		AS BUILT INFORMATION	
		NO. DATE REMARKS REVISIONS HDR ENGINEERING INC. DESIGNED BY: DATE: 03-26-07 DRAWN BY: DATE: 03-26-07 CHECKED BY: DATE:		N.C. BY DATE 		CONTRACTOR DATE DRAWN BY DATE CHECKED BY DATE MICRO-FILM INFORMATION RECORDED BY NO.		CONTRACTOR DATE DRAWN BY DATE CHECKED BY DATE MICRO-FILM INFORMATION RECORDED BY NO.	
2180 LOUISIANA BLVD. #P SUITE 200 ALBUQUERQUE, NM 87110 PHONE (505) 833-0400 FAX (505) 833-0404 HDR ENGINEERING INC. ONE COMPANY <i>Many Solutions</i>									
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION									
TITLE: CENTRAL AVE BULB OUT PROJECT CENTRAL AND JEFFERSON INTERSECTION LANDSCAPE DETAIL									
Design Review Committee			City Engineer Approval			Last Design Update		No. (Rev./Yr)	
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