

# TREE PLANTING DETAIL

### GENERAL NOTES:

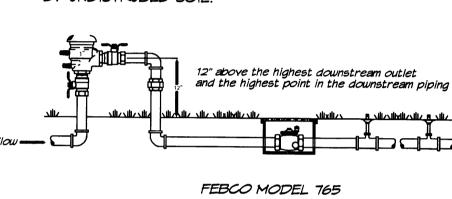
1. ROOTBALL SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT TREE FROM SETTLING.

2. TOP OF ROOTCOLLAR INDICATED LEVEL AT WHICH TREE WAS GROWN AND DUG; THIS REPRESENTS THE LEVEL AT WHICH THE TREE SHOULD BE INSTALLED; THAT LEVEL CONSTRUCTION NOTES: MAY BE EXCEEDED BY ONLY A ONE INCH LAYER OF SOIL. 3. PRIOR TO BACKFILLLING TREE, ALL WIRE, ROPE AND SYNTHETIC MATERIALS SHALL BE REMOVED FROM THE TREE AND THE PLANTING PIT.

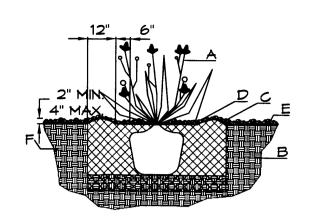
4. PRIOR TO BACKFILLING ALL BURLAP SHALL BE CUT AWAY EXCEPT FROM BOTTOM OF THE ROOTBALL.

## CONSTRUCTION NOTES:

- A. TREE
- B. BACKFILL WITH EXISTING SOIL.
- C. 3" DEPTH OF GRAVEL MULCH. D. UNDISTRUBED SOIL.



Pressure Vacuum Breaker Outside Installation



SHRUB PLANTING DETAIL

## GENERAL NOTES:

1. THE OUTSIDE DIAMETER OF THE WATER RETENTION BASIN SHALL BE TWICE THE DIAMETER OF THE SHRUB PLANTING PIT.

It cannot be remove

resistant reducing damage caused by normal tampering experienced in the

DOUBLE GUIDED CHECK ASSEMBLY reduces checked foulling and chattering

reby providing long life and reliable

FULL PORT SHUTOFF

ALL BRONZE BODY

provides durability and long life.

B. BACKFILL WITH EXISTING SOIL. C. EARTH BERM AROUND WATER RETENTION BASIN. D. 3" DEPTH OF GRAVEL MULCH.

> FEBCO MODEL 765 Pressure Vacuum Breaker Features

to damagecaused during normal installation or when vandalism

E. FINISH GRADE. F. UNDISTURBED SOIL. HEAVY DUTY
POLYSULFONE
POPETS are designed to
provide reliable
amd long life\_ BONNET is vandal resistant

LANDSCAPE NOTES:

Landscape maintenance shall be the responsibility of the Property Owner. The Property Owner shall maintain street trees in a living, healthy, and attractive condition.

It is the intent of this plan to comply with the City Of Albuquerque Mater Conservation Landscaping and Water Waste Ordinance planting restriction approach. Approval of this plan does not constitute or imply exemption from water waste provisions of the Mater Conservation Landscaping and Mater Maste Ordinance.

Mater management is the sole responsibility of the Property Owner. All landscaping will be in conformance with the City of Albuquerque Zoning Code, Street Tree Ordinance, Pollen Ordinance, and Water Conservation Landscaping and Mater Maste Ordinance. In general, water conservative, environmentally sound landscape principles will be followed in design and installation.

Plant beds shall achieve 75% live ground cover at maturity.

Grey Gravel over Filter Fabric to a minimum depth of 3" shall be placed in all landscape areas which are not designated to receive Crusherfines or Turf.

IRRIGATION NOTES:

Irrigation shall be a complete underground system with Trees to receive 1 Netafim spiral (50' length) with 3 loops at a final radius of 4.5' from tree trunk, pinned in place. Netafim shall have emitters 12" o.c. with a flow of .6 gph. Shrubs to receive (2) 1.0 GPH Drip Emitters. Drip and Bubbler systems to be tied to 1/2" polypipe with flush caps at each end. Trees and shrubs shall be on separate valves.

Run time per each shrub drip valve will be approximately 15 minutes per day. Tree drip valve shall run 1.5 hours, 3 times per week. Run time will be adjusted according to the season.

Point of connection for irrigation system is existing. Irrigation will be operated by automatic controller.

Location of controller to be field determined and power source for controller to be provided by others.

Irrigation maintenance shall be the responsibility of the Property Owner. Mater and Power source shall be the responsibility of the Developer/Builder.

STREET TREE REQUIREMENTS - Minimum 2" Caliper

Street trees required under the City Of Albuquerque Street Tree Ordinance are as follows: Los Volcanes Rd. NW

Required # 4 Provided # 5

Required # 3 Provided # 4

PARKING LOT TREE REQUIREMENTS - Minimum 2" Caliper Shade trees required under the City Of Albuquerque Parking Lot Tree Ordinance are as follows: 1 Shade tree per 10 spaces

## LANDSCAPE CALCULATIONS

TOTAL LOT AREA	30965
TOTAL BUILDING AREA	4381
NET LOT AREA	26584
LANDSCAPE REQUIREMENT	<u>× 20</u>
TOTAL LANDSCAPE REQUIRED (20%)	5317
TOTAL LANDSCAPE PROVIDED ( 22 % )	6435
TOTAL LIVE GROUNDCOVER REQUIRED ( 15% )	4826
TOTAL LIVE GROUNDCOVER PROVIDED ( 97%)	6244

Landscape Architect



Sept. 10, 2014

Volcanes Volcanes 0°0° 1 0°0°

The Hiller

SHEET \*

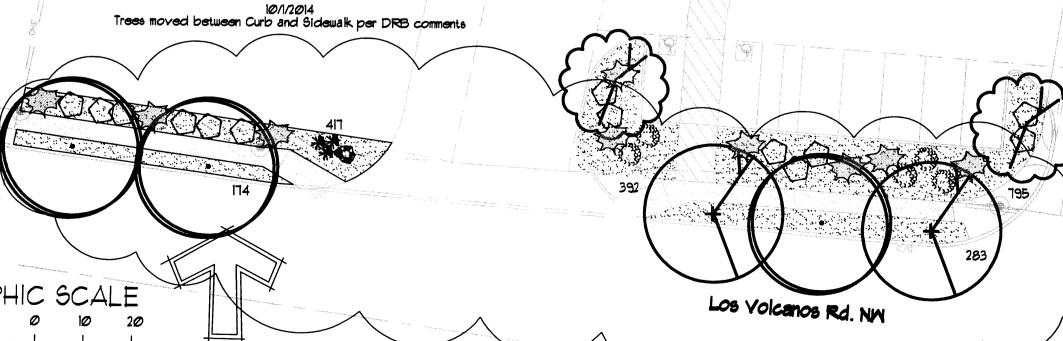
LS-101

2 3" cal Ash Fraxinus sp.  3 3" cal Honey Locust Gleditsia triacanthos  1 4 - 6' Pinon Pinus edulis  8 15 Gal. Bradford Pear Malus sp.  4 15 Gal. Desert Willow 20x25 625 2500 Chilopsis linearis  2 4-6' Palm Yucca, Boulders, Oversize Gravel Yucca faxonia  22 5 Gal Wintergreen Barberry 5x5 25 550 Berberis julianae India Hawthorne 3x5 25 300 Raphiolepis indica Winter Jasmine 4x12 144 2304 Jasminum nudiflorum Dwarf Butterfly Bush 5x5 25 50	M M M
Gleditsia triacanthos  1 4-6' Pinon Pinus edulis  8 I5 Gal. Bradford Pear Malus sp.  4 I5 Gal. Desert Willow 20x25 625 25000 Chilopsis linearis  2 4-6' Palm Yucca, Boulders, Oversize Gravel Yucca faxonia  22 5 Gal Wintergreen Barberry 5x5 25 550 Berberis julianae I2 5 Gal India Hawthorne 3x5 25 3000 Raphiolepis indica Winter Jaemine 4x/2 144 2304 Jasminum nudiflorum	М
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Jasminum nudiflorum	М
	M
Puddloia davidii nambai-	М
Buddleia davidii nanhoensis  36 5 Gal Dwarf Feathertop 25x2 4 144  Banniastum villa suus	М
Pennisetum villosum  5 5 Gal Cherry Sage 2x3 9 45	М
Salvia greggii  3 5 Gal Blue Mist 3x3 9 27	M
Caryopteris x clandonensis  9 5 Gal Fern Bush 5x6 36 324	M
Chamaebatiaria millefolium  4 5 Gal Apache Plume 6x1 49 196	L
Fallugia paradoxa  5 5 Gal Chamisa 5x5 25 125  Chrhysothamnus nauseosus	L
Boston Ivy 1x4 16 48 Parthenocissus tricuspidata	L
Moss Rock Boulders  To be placed at contractor disc	L
9346 Landecape Gravel Color and Size to be determine	

Oversize Cobble

Total Live Groundcover 6244





SCALE: 1"=20"

- PASS THROUGH THE PARKING LOT.
- 2. REMOVE & DISPOSE OF EXISTING ASPHALT RUNDOWN.
- 3. CUT EXISTING ASPHALT AT PROPERTY LINE. REMOVE EXISTING RUNDOWN. CONCRETE FILL & WATER PROOF BOTTOM FOOT OF PERIMETER WALL. SEAL JOINT BETWEEN ASPHALT AND WALL WITH A SILICONE SEALANT. FLOWS TO STAY ON ADJACENT PROPERTY UNTIL THEY DISCHARGE TO EXISTING DRAINAGE EASEMENT ON NORTH PROPERTY LINE. (PER ORIGINAL DESIGN OF CHECKER AUTO-COORS BLVD GRADING AND DRAINAGE PLAN BY GOODWN & ASSOCIATES DATED 11/03/98.)
- 4. MATCH EXISTING ASPHALT PAVING FOR A SMOOTH DRIVING TRANSITION.
- 5. PROPOSED RETAINING WALL WITH OPENINGS IN VERTICAL GAPS ALONG THE ROW OF BLOCKS AT THE TOP EARTH
- 6. TURN BLOCKS IN THE COURTYARD WALL TO ALLOW STORM WATER FROM THE LANDSCAPED AREA TO ESCAPE.
- 7. INSTALL 4" TRENCH DRAIN WITH SOLID GRATE AT 2% SLOPE.
- 8. HANDICAP RAMP PER ARCHITECTURAL DETAILS.
- 9. TURN-DOWN EDGE OF SIDEWALK PER ARCHITECTURAL DETAILS.
- 10. CURB & GUTTER PER ARCHITECTURAL DETAILS.
- 11. CONSTRUCT TEMPORARY ASPHALT CURB TO DIRECT FLOWS TO DETENTION POND.
- 12. PROPOSED 4,540 CF DETENTION POND.
- 13. DEPRESSED WATER HARVESTING AREAS WITHIN LANDSCAPING.

# **GENERAL NOTES**

- COORDINATE WORK WITH SITE PLAN, UTILITY PLAN, DEMOLITION PLAN, AND LANDSCAPE PLAN.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, REPORT ALL DISCREPANCIES TO THE ARCHITECT / ENGINEER AND VERIFY THE ARCHITECT / ENGINEER'S INTENT BEFORE PROCEEDING.
- PAVEMENT GRADES IN MARKED HANDICAPPED PARKING AREAS SHALL NOT EXCEED 2.0% IN ANY DIRECTION. DESIGN GRADES ARE APPROX. 1.8% TO ALLOW FOR CONSTRUCTION TOLERANCES.
- FOR ALL ACCESSIBLE ROUTES, MAXIMUM ALLOWABLE CROSS SLOPE IS 2.0% AND MAXIMUM LONGITUDINAL SLOPE WITHOUT RAMP IS 5.0% FOLLOW ALL ADA ACCESSIBILITY GUIDELINES OR CITY CODES, WHICHEVER IS MORE STRINGENT.
- ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OF OFFSITE.
- ALL SUBGRADE, OVEREXCAVATION, AND FILL SHALL BE PLACED AND / OR COMPACTED PER THE GEOTECHNICAL REPORT AND CITY OF ALBUQUERQUE SPECIFICATIONS.
- PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- IF FIELD GRADE ADJUSTMENTS ARE REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER.
- UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS SHOWN ON PLAN. COMPACT WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE INDICATED.
- EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. CONTRACTOR SHALL CONTACT NM-811 FOR UTILITY LINE SPOTS TWO WORKING DAYS PRIOR TO CONDUCTING SITE FIELD WORK. CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
- OWNER WILL PROVIDE SOIL TESTING AND INSPECTION SERVICES DURING EARTHWORK OPERATIONS. CONTRACTOR SHALL ALLOW TESTING LABS TO INSPECT AND APPROVE COMPACTED SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS DONE. SHOULD COMPACTION TESTS INDICATE INADEQUATE DENSITY, CONTRACTOR SHALL PROVIDE ADDITIONAL COMPACTION AND TESTING AT THE CONTRACTOR'S SOLE EXPENSE.
- OWNER HAS ESTABLISHED PROPERTY BOUNDARY CORNERS. CONTRACTOR SHALL PROVIDE ALL OTHER CONSTRUCTION STAKING. CONTRACTOR SHALL LOCATE AND PRESERVE ALL BOUNDARY CORNERS AND REPLACE ANY LOST OR DISTURBED CORNERS AT CONTRACTOR'S SOLE EXPENSE.
- M. THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE CITY OF ALBUQUERQUE REQUIRE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AN NDPES PERMIT, AND AN EROSION AND SEDIMENT CONTROL (ESC) PERMIT FOR PROJECTS WHERE CONSTRUCTION ACTIVITIES MEET THE EPA THRESHOLD. (SWPPP, NPDES PERMIT, AND ESC PLAN BY OTHERS.) A CITY-APPROVED ESC PERMIT MUST BE INCLUDED WITH THE CONTRACTOR'S SUBMITTAL FOR A ROUGH GRADING, GRADING. PAVING, BUILDING, OR WORK ORDER PERMIT.
- ADJUST RIMS OF EXISTING UTILITY FEATURES AS NECESSARY TO MATCH NEW GRADES.
- O. UTILITIES IN PAVED AREAS SHALL BE HS-25 TRAFFIC RATED.. ALL NEW PAVEMENT SURFACES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE AWAY FROM BUILDINGS AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS.
- WHERE GRADES BETWEEN NEW AND EXISTING ARE SHOWN AS 'MATCH' OR '±'. TRANSITIONS SHALL BE SMOOTH.
- NEW PAVEMENT SLOPE SHALL BE A MINIMUM OF 1.0% FOR CONCRETE AND 1.5% FOR ASPHALT UNLESS NOTED OTHERWISE.
- ALL FRACTURED FACE ROCK (F.F. ROCK) TO BE 6" AVG. DIA. ANGULAR FACED ROCK PLACED OVER GEOTEX 501 NON-WOVEN GEOTEXTILE (O.E.). NOTE: PERMANENT TURF REINFORCEMENT MATERIAL (LANDLOK TRM 450 O.E.) MAY BE SUBSTITUTED AT ALL AREAS REFERENCING F.F. ROCK EROSION PROTECTION.
- POND DESIGN PARAMETERS (TOP OF POND, BOTTOM OF POND, SIZE OF ORIFICE, AREA OF POND, ETC.) TO BE STRICTLY ADHERED TO FOR CERTIFICATION PURPOSES. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- ENGINEER RECOMMENDS THAT OWNER MAINTAIN EROSION PROTECTION ELEMENTS. ENGINEER RECOMMENDS THAT OWNER INSPECT SITE YEARLY AND AFTER EACH RAINFALL TO IDENTIFY NEW AREAS OF EROSION AND INSTALL ADDITIONAL EROSION PROTECTION AS NEEDED BASED ON ACTUAL OCCURRENCES.

# **VICINITY MAP** ATRISCO SITE MERIDIAN PLANNED INDUST PARK (UNIT 1) 1"=750'± PLANNED INDUST PARK J-10-Z PARK

# **PROJECT DATA**

LEGAL DESCRIPTION: TRACT Q-7-A-1-A, ATRISCO BUSINESS PARK

SITE AREA: 1.1 AC.

FLOOD ZONE: THIS SITE FALL ENTIRELY WITHIN ZONE 'X' PER FEMA FIRM MAP 35001C0329H DATED AUGUST 16, 2012.

ENGINEER: GENEVIEVE DONART

ISAACSON & ARFMAN, P.A. 128 MONROE ST NE, ABQ. NM 87108 PHONE: (505) 268-8828

PHONE: (505) 889-8056

ELEV=5146.61 (NAVD 1988)

HARRIS SURVEYING, INC. 2412-D MONROE ST NE ALBUQUERQUE, NM 87110

BENCHMARK: ACS "13-K10"

PROJECT CONDTIONS: THE PROPOSED PROJECT IS AN XXXX SF MEDICAL OFFICE BUILDING ON THE EASTERN PORTION OF THE EXISTING UNDEVELOPED TRACT. TO THE EAST IS AN EXISTING AUTO PARTS STORE. OFFSITE FLOWS OF 3.2 CFS ENTER THE SITE ON THE NE CORNER, AND TRAVEL WEST IN AN ASPHALT RUNDOWN TO A DETENTION POND WITH A PUBLIC INLET AT THE воттом.

THE NEW CONSTRUCTION WILL REMOVE THE EXISTING ASPHALT RUNDOWN, AND DIRECT OFFSITE FLOWS THROUGH THE PARKING LOT, THEN BACK OUT THE THE DETENTION POND. DEVELOPED FLOWS OF 3.6 CFS FROM THE NEW CONSTRUCTION WILL ALSO BE DIRECTED WEST TO THE EXISTING DETENTION POND. THE POND WILL BE AT LEAST 4,540 CU. FT. IN SIZE TO ACCOUNT FOR THE INCREASED DEVELOPED DISCHARGE.

THE FIRST FLUSH WILL BE ADDRESSED WITH WATER HARVESTING AREAS BY DIRECTING FLOWS TO THIS SAME POND.  $(0.34"/12in/ft \times 24,228 SF \%D = 686 CF)$ 

## **LEGEND**

HOD SAPNELL ORTH

REVISION DATE

ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com

2053 CG-101.dwg Sep 24,2014

09-24-2013

SHEET NUMBER

**CG-101** 



SCALE 1"=20'

