

2012 P024



ADDENDUM #2 TO THE REQUEST FOR LETTER OF NO OBJECTION  
FOR  
**THE BRIDGES EAST**  
**SONOQUI CHANNEL MODIFICATIONS**

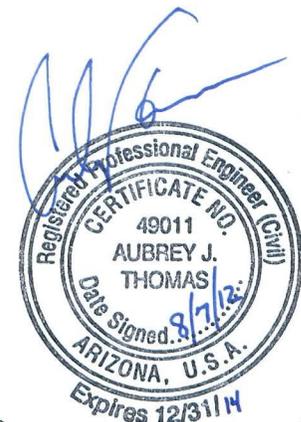
GILBERT, ARIZONA

Prepared for:

BRIDGES NORTH LP  
BRIDGES SOUTH LP  
BRIDGES MULTIFAMILY LP  
3820 W. Happy Valley Road, Suite 141-246  
Glendale, AZ 85310

Prepared by:

hilgartwilson  
1661 East Camelback Road, Suite 275  
Phoenix, AZ 85016  
Phone: (602) 490-0535  
Fax: (602) 325-0161



August 2012  
Project No. 1127

August 7, 2012

Ms. Shelby Brown  
Right-of-Way Permits Specialist  
Flood Control District of Maricopa County  
2801 West Durango Street  
Phoenix, AZ 85009

RE: Addendum #2 to the Request for Letter of No Objection for  
The Bridges East Sonoqui Channel Modifications  
HilgartWilson Project No: 1127.00

Dear Ms. Brown:

This letter and attachments shall serve as Addendum #2 to the Bridges East Sonoqui Channel Modifications Request for Letter of no Objection submitted to the District in April 5, 2012 and Addendum #1 dated July 17, 2012. This addendum is in response to feedback received from the Town of Gilbert based on their review of the improvement plans for the Bridges East project and review comments received from the District on July 31, 2012. The District's review comments and HilgartWilson's responses are as follows:

1. *District's Hydrology/Hydraulics Branch has no objection to the project as proposed. However, they have requested that if there are proposed changes to the site's retention volumes or discharges to Sonoqui Wash, that the changes be submitted to the District so that the District may have an opportunity to re-evaluate impacts to the East Maricopa Floodway (EMF).*

**Response:** Noted. The improvement plans provided to the District with Addendum #1 are currently undergoing what is expected to be the final review and approval from the Town of Gilbert. Accordingly, no additional changes that would impart an effect on the Project's retention volumes or discharges to Sonoqui Wash are expected at this time. However, if such changes do become necessary the District will be notified.

2. *Regarding the bollards, the District recognizes that this is the Town of Gilbert's jurisdiction. However, the District made the recommendation based on experience with increased maintenance costs and potential liability for injury. Therefore, the District still recommends placement of gates or bollards to points of access to Sonoqui Wash (whether one currently exists or not).*

**Response:** In accordance with the District's recommendation, bollards have been added to the design at the two new proposed points of access (ramps) located on the east and west sides of Soboba Street.

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3. *Drawing CD05:*

- a. *Show maintenance access/multi-use path termination to either Ocotillo Rd or Soboba Street*

**Response:** The proposed east and west maintenance/multi-use ramps will both terminate to Soboba Street.

- b. *Provide appropriate curb treatment for vehicular access to maintenance path*

**Response:** Segments of 6-inch mountable curb will be placed at the Soboba Street frontage to the proposed east and west ramps.

4. *Sheets LA3.3 & 3.4:*

- a. *Landscape plan is not coordinated with civil plans*

**Response:** The Landscape Plans have been updated to match the Civil Improvement Plans.

- b. *Show new ramps and treatment of disturbed channel surfaces shown on the grading plan, suggest hydroseeding the reconstructed slopes*

**Response:** The Landscape Plans have been updated to reflect the proposed ramps and hydroseeding of the reconstructed slopes.

- c. *Where maintenance path connects to Ocotillo or Soboba, revise planting plan for appropriate treatment of path for maintenance vehicles to cross.*

**Response:** The Planting Plan has been amended to provide an appropriate surface treatment for vehicular access to the ramps from Soboba.

The changes made to the improvement plans and design reports in response to these comments and other necessary design modifications are summarized as follows:

**1. Improvement Plans-** In response to District comments #2 and #3, the Improvement Plans were updated to include the bollards and mountable curb segments along the Soboba Street frontage of the two proposed access ramps. Relevant excerpts from the updated Bridges East Improvement Plans are included at Attachment 1.

**2. Landscape Plans-** In response to District comment #4, the Landscape Plans were updated to reflect the proposed access ramps (including the appropriate surface treatments) and hydroseeding of the disturbed channel surfaces. The revised plans are included as Attachment 2.

Except for the items listed above, no other changes relative to the proposed Sonoqui Channel modifications have been made since the original submittal was made in April.

As stated in the original request, no adverse impacts to the Sonoqui Channel or other downstream properties are expected to result from these proposed improvements. The analyses that were completed verified the following for the Sonoqui Channel:

- There will be no increases in the peak design flow rates
- There will be no significant increases in flow depth that would jeopardize the requisite freeboard
- No erosive conditions will be created that may lead a loss in the Channel cross-section's integrity.

We hereby request that after a satisfactory review of this addendum letter and attachments, your office provide a Letter of No Objection for these Improvements. Should you need additional information or clarification, please feel free to contact me at 602-490-0535 X 308 or by e-mail at [athomas@hilgartwilson.com](mailto:athomas@hilgartwilson.com).

Respectfully submitted,



Aubrey Thomas, P.E.  
Manager Stormwater Resources

**hilgartwilson**



EXCERPTS FROM IMPROVEMENT PLANS  
THAT INCLUDE OUTLETS TO SONOQUI WASH

EXCERPTS OF  
EAST BRIDGES BOULEVARD - SOUTH SOBOBA STREET  
IMPROVEMENT PLANS

**HILGARTWILSON STANDARD ENGINEERING NOTES**

1. THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELVES THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
2. THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
3. ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATION OF THE SOIL INVESTIGATION REPORT AND LETTER, AS PREPARED BY RICKER ATKINSON MCBEE MORMAN & ASSOCIATES, INC. PHONE NO. (480) 921-8100, PROJECT NO. G19365, DATED MARCH 7, 2012.
4. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
5. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, ETC.
7. THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR, THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
8. THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK, THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. (IF THE TRENCHES ARE BACKFILLED AND OBTURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.)
9. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITIONS, OR PAVEMENT CROSS-SLOPES DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT BEING ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
10. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
11. PRIOR TO CONSTRUCTION, THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION, OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
12. ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
13. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES, STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
14. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
15. IF PAD CERTIFICATIONS ARE PERFORMED, IT IS UNDERSTOOD THAT THE CERTIFICATION PROVIDES ONLY A REPRESENTATIVE ELEVATION OF THE AVERAGE GRADE OF EACH LOT, BUILDINGS OR UNIT PAD, AND SHALL NOT BE CONSTRUED TO INCLUDE YARD AND STREET SUB-GRADE CERTIFICATION OR CERTIFICATION THAT THE ENTIRE PAD IS LEVEL, THAT IT WAS CONSTRUCTED IN THE DESIGNED LOCATION OR WAS GRADED TO THE CROSS-SECTION SET FORTH ON THE PLANS OR AS DESIGNATED IN THE SOILS REPORT.
16. FINISH GRADES SHOWN ON THESE PLANS ARE THE FINAL FINISH GRADES. CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT (DECOMPOSED GRANITE, LAWN, ETC.).
17. UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.

# THE BRIDGES EAST EAST BRIDGES BOULEVARD- SOUTH SOBOBA STREET IMPROVEMENT PLANS

GILBERT, ARIZONA

A PORTION OF SECTION 11 AND SECTION 14, TOWNSHIP 2  
SOUTH RANGE 6 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN  
MARICOPA COUNTY, ARIZONA



VICINITY MAP  
N.T.S.



LOCATION MAP  
N.T.S.

**LEGEND**

- PROJECT BOUNDARY & T.O.G. PROPERTY LINE
- RIGHT OF WAY
- CENTERLINE
- FIRE HYDRANT & MARKER
- EX. 8" S
- EX. 8" W
- EX. 8" A
- NEW A.C. PAVEMENT
- (1500) --- EXIST. CONTOURS
- (1600) --- PROPOSED CONTOURS
- ① CONSTRUCTION NOTES
- GRADE BREAK
- BRASS CAP TYPE "B"
- === 6" VERTICAL CURB
- STREET LIGHT
- STREET SIGN

**SHEET INDEX**

CD01	COVER SHEET
CD02-04	NOTES AND DETAILS
CD05-17	PAVING, UTILITY PLAN AND PROFILE
CD18-20	MEDIAN CONTROL PLAN
CD21-22	SEWER PROFILES
SD01-SD02	STORM DRAIN DETAILS AND PROFILES
CD25	HEADWALL AND RETAINING WALL
CD26	ACCESS RAMP GRADING AND DETAILS
SS01-04	SIGNING AND STRIPING PLANS
SP01	STORM WATER MANAGEMENT POLLUTION PREVENTION COVER
SP02	STORM WATER MANAGEMENT POLLUTION PREVENTION PLAN
ST01-04	STRUCTURAL DETAILS
SL-7.1-7.5	STREET LIGHT DESIGN
LA0.1-LAB.2	LANDSCAPE PLANS

**BUILDING DEPARTMENT NOTICE**

ALTHOUGH SOME PLANS AND DETAILING FOR SCHEMATIC PURPOSES WERE PROVIDED, THE SUBDIVISION SUBMITTAL PACKAGE REVIEWED DID NOT INCLUDE ALL SITE AMENITY/IMPROVEMENT PLANS AND DETAILS NECESSARY FOR FULL BUILDING DEPARTMENT APPROVAL. COMPLETE PLANS AND DETAILING INCLUDING STRUCTURAL AND ELECTRICAL PLANS AND DETAILS ARE BEING DEFERRED UNTIL THE FIRST BUILDING PERMIT FOR AN AMENITY IS REQUESTED FROM DEVELOPMENT SERVICES. ALL COMPLETE PLANS AND DETAILS MUST BE SUBMITTED FOR ALL SITE AMENITIES REQUIRING A BUILDING DEPARTMENT PERMIT WHEN THE FIRST BUILDING PERMIT IS REQUESTED. PERMITS WILL NOT BE ISSUED FOR ANY SINGLE AMENITY WITHOUT APPROVAL OF THE OVERALL SITE PLAN AND ALL RELATED AND NECESSARY DETAILS.

PARTIAL PLANS SUBMITTED FOR REVIEW THROUGHOUT THE SUBDIVISION REVIEW PROCESS WILL NEED TO BE RESUBMITTED AS PART OF THE BUILDING PERMIT REQUESTED PROCESS.

AMENITIES OR IMPROVEMENTS THAT REQUIRE BUILDING PERMITS INCLUDE, HOWEVER ARE NOT LIMITED TO: FENCES, RETAINING WALLS, MONUMENT WALLS, RAMADAS, ELECTRICAL PEDESTALS, SITE LIGHTING ADA ACCESS ( WHERE NOT SHOWN ON PRIOR DRAWINGS), WATER METERS (BOTH IRRIGATION AND DOMESTIC), DRINKING FOUNTAINS, WATER PUMPING STATIONS, SWIMMING POOLS, BATH HOUSES, AND BACKFLOW ASSEMBLIES.

**ENGINEER**

HILGARTWILSON  
1661 E. CAMELBACK RD., STE. 275  
PHOENIX, ARIZONA 85016  
CONTACT: NGUYEN LAM  
PHONE: (602) 490-0535  
FAX: (602) 325-0161

**LANDSCAPE ARCHITECT**

ANDERSON BARON  
88 SOUTH SAN MARCOS PLACE  
SUITE 101  
PHOENIX, AZ 85028  
(480) 699-7956  
FAX: (480) 699-7986  
CONTACT: THOMAS DURANT

**OWNER/DEVELOPER**

BRIDGES NORTH LP  
3820 W. HAPPY VALLEY RD  
#141-246  
GLENDALE, AZ 85310

BRIDGES SOUTH LP  
3820 W. HAPPY VALLEY RD  
#141-246  
GLENDALE, AZ 85310

**LIGHTING**

WRIGHT ENGINEERING CORPORATION  
165 E. CHILTON DRIVE  
CHANDLER, ARIZONA 85225  
PHONE: (480) 497-5829  
FAX: (480) 497-5807  
CONTACT: AARON KUTCHINSKY

**AS-BUILT CERTIFICATION**

I HEREBY CERTIFY THAT THE "AS-BUILT" MEASUREMENTS AS SHOWN OR NOTED HEREON WERE MADE BY MYSELF OR UNDER MY SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**APPROVALS**

THE AUTHORIZED REPRESENTATIVES OF THE FOLLOWING AGENCIES HEREBY ACKNOWLEDGE OR HAVE ACKNOWLEDGED THEY HAVE REVIEWED AND APPROVED THEN DESIGN SHOWN BY THESE DRAWINGS. CONSTRUCTION MAY BEGIN AFTER ALL APPROPRIATE PERMITS HAVE BEEN OBTAINED.

MARICOPA COUNTY \_\_\_\_\_ DATE \_\_\_\_\_  
ENVIRONMENTAL SERVICES DEPARTMENT

TOWN OF GILBERT \_\_\_\_\_ DATE \_\_\_\_\_  
TOWN ENGINEER

TOWN OF GILBERT \_\_\_\_\_ DATE \_\_\_\_\_  
FIRE DEPT.

**BASIS OF BEARING**

BASIS OF BEARING IS S00°16'16"W ALONG THE EAST LINE OF SECTION 14, TOWNSHIP 2 SOUTH, RANGE 6 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

**BENCHMARK NOTE: 1320.20' (NAVD88)**

DESCRIBED AS THE NW CORNER OF SECTION 14 T2S, R6E, BEING A TOWN OF GILBERT BRASS CAP HANDHOLE, 0.55 DOWN AT THE INTERSECTION OF QUEEN CREEK ROAD AND HIGLEY ROAD.

THE PROMPT PAY LAW WILL BE ALTERED FOR THIS CONTRACT  
NOTICE OF EXTENDED PAYMENT PROVISION  
THE CONSTRUCTION CONTRACT WILL ALLOW THE OWNER TO MAKE PAYMENT WITHIN THIRTY (30) DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS.



**MARICOPA COUNTY ENVIRONMENTAL SERVICES NOTE**

ALL MATERIAL THAT COMES INTO CONTACT WITH POTABLE WATER SHALL CONFORM TO ANSI/NSF STANDARD 61 PER AAC R18-4-213.

THIS SET OF CONSTRUCTION PLANS HAS BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES FOR REVIEW AND TO DETERMINE ANY POTENTIAL CONFLICTS.

UTILITY COMPANY	COMPANY CONTACT	DATE SUBMITTED
CENTURYLINK	DANNY YOUNG	04/03/2012
SALT RIVER PROJECT	BRETT GRUENDLER	04/03/2012
COX COMMUNICATIONS	KEN DEGRAFFENREID	04/03/2012
SOUTHWEST GAS COMPANY	ZACH STEVENSON	04/03/2012

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**EAST BRIDGES BOULEVARD-SOUTH SOBOBA STREET**  
OCOTILLO ROAD & RECKER ROAD  
GILBERT, ARIZONA

COVER SHEET



PROJ.#:	1127	REV.:	
DATE:	JULY 2012	DWG. NO.:	CD01
SCALE:	N.T.S.	SHT. 1	OF 62
DRAWN:	MR. JR. OR. JF	DESIGNED:	CB
APPROVED:	NL		

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CURVE #	RADIUS	DELTA	LENGTH
C1	1474.58'	21°27'41"	552.34'
C2	1435.58'	14°41'50"	368.25'
C3	1513.58'	14°57'01"	394.94'

FOR HORIZONTAL AND VERTICAL MEDIAN CONTROL SEE SHEET CD18-CD20

NOTE: ALL CURVES ARE MEASURED FROM BACK OF CURB OR CENTER LINE.

**SEWER CONSTRUCTION NOTES**

- ② 10" SDR-35 PVC SEWER PIPE; TOG DTL 86 42 LF
- ④ SEWER MANHOLE: 5' DIA.; MAG DTL 420-1, W/ 30" FRAME & COVER; MAG STD DTL 422 & 424 2 EA
- ⑦ REMOVE PLUG & TIE INTO EX. SEWER. CONTRACTOR TO VERIFY EXACT LOCATION & DEPTH PRIOR TO TRENCHING 1 EA
- ⑩ 10" DIP SEWER PIPE WITH PROTECTO 401 EPOXY LINER. 300 LF

**WATER CONSTRUCTION NOTES**

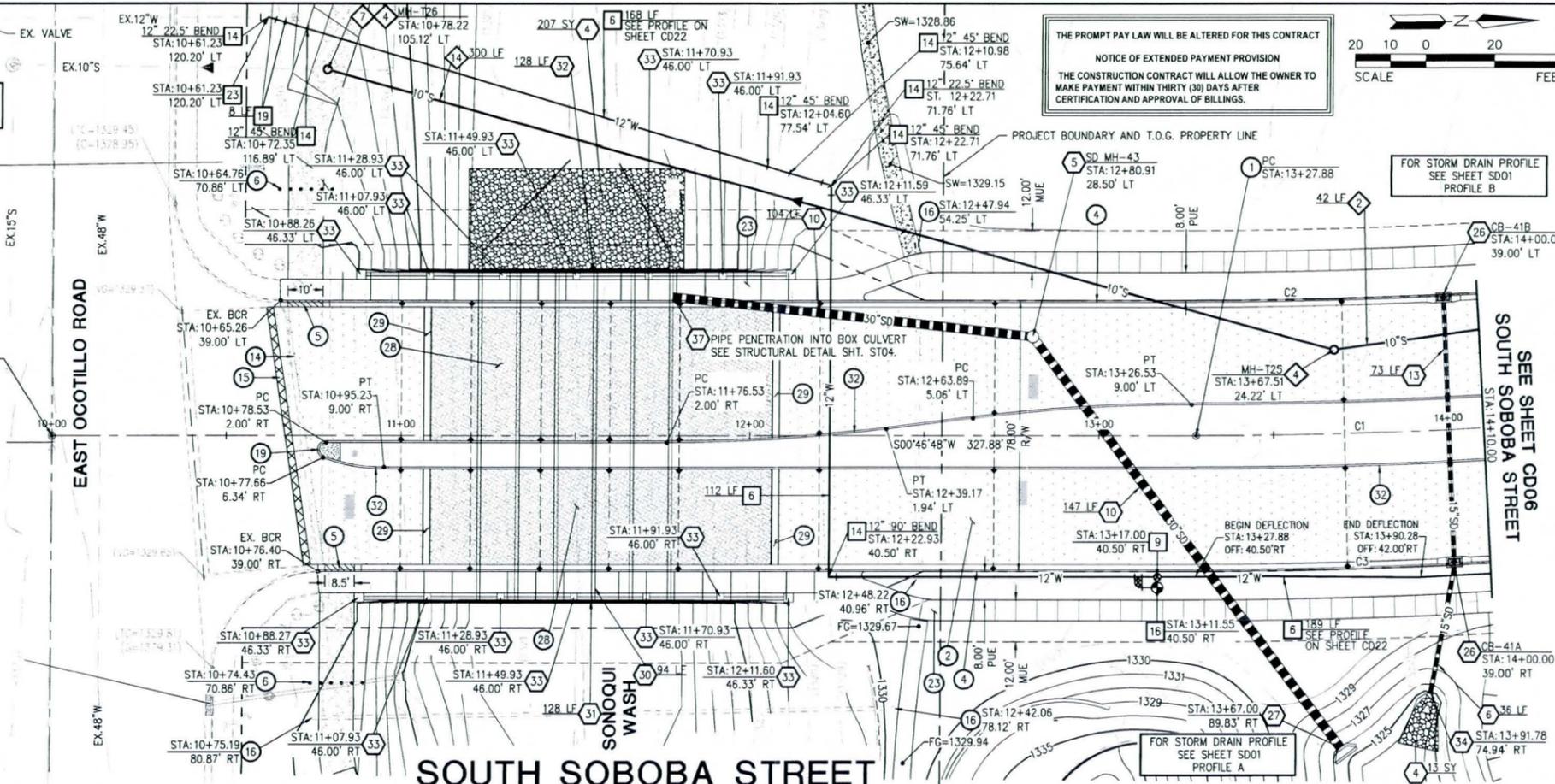
- ⑥ 12" D.I.P. AWWA CL-350 WATERLINE; MAG 370 & 381 469 LF
- ⑨ 12" WATER VALVE, BOX, COVER; MAG 391-1-C 1 EA
- ⑭ WATERLINE FITTING; MAG DTL 380 & 381 7 EA
- ⑮ FIRE HYDRANT & PAVEMENT MARKER; TOG DTL 60,60A & 61 TYPE B 1 EA
- ⑲ REMOVE EX. WATERLINE 8 LF
- ⑳ CUT EX. WATER MAIN AND CONNECT TO EX. WATER MAIN 1 EA

NOTE: ACCESS TO EXISTING SANITARY SEWER MAINS WILL NOT BE PERMITTED UNTIL ALL NEW SEWER CONSTRUCTION HAS BEEN APPROVED AND ACCEPTED. NEW SEWER CONSTRUCTION SHALL BE ISOLATED FROM THE EXISTING SYSTEM AS FOLLOWS:

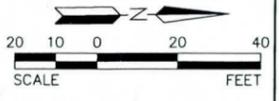
- 1. ALL PAVING COMPLETED AND MANHOLE RINGS AND COVERS AT CORRECT GRADE.
- 2. INSPECTOR'S PERMISSION.

A REINFORCED PLUG WILL BE PLACED IN THE OUTLET OF THE LAST MANHOLE (MOST DOWNSTREAM) IN THE SYSTEM UNDER CONSTRUCTION. THIS PLUG WILL NOT BE REMOVED WITHOUT:

- 1. ALL PAVING COMPLETED AND MANHOLE RINGS AND COVERS AT CORRECT GRADE.
- 2. INSPECTOR'S PERMISSION.

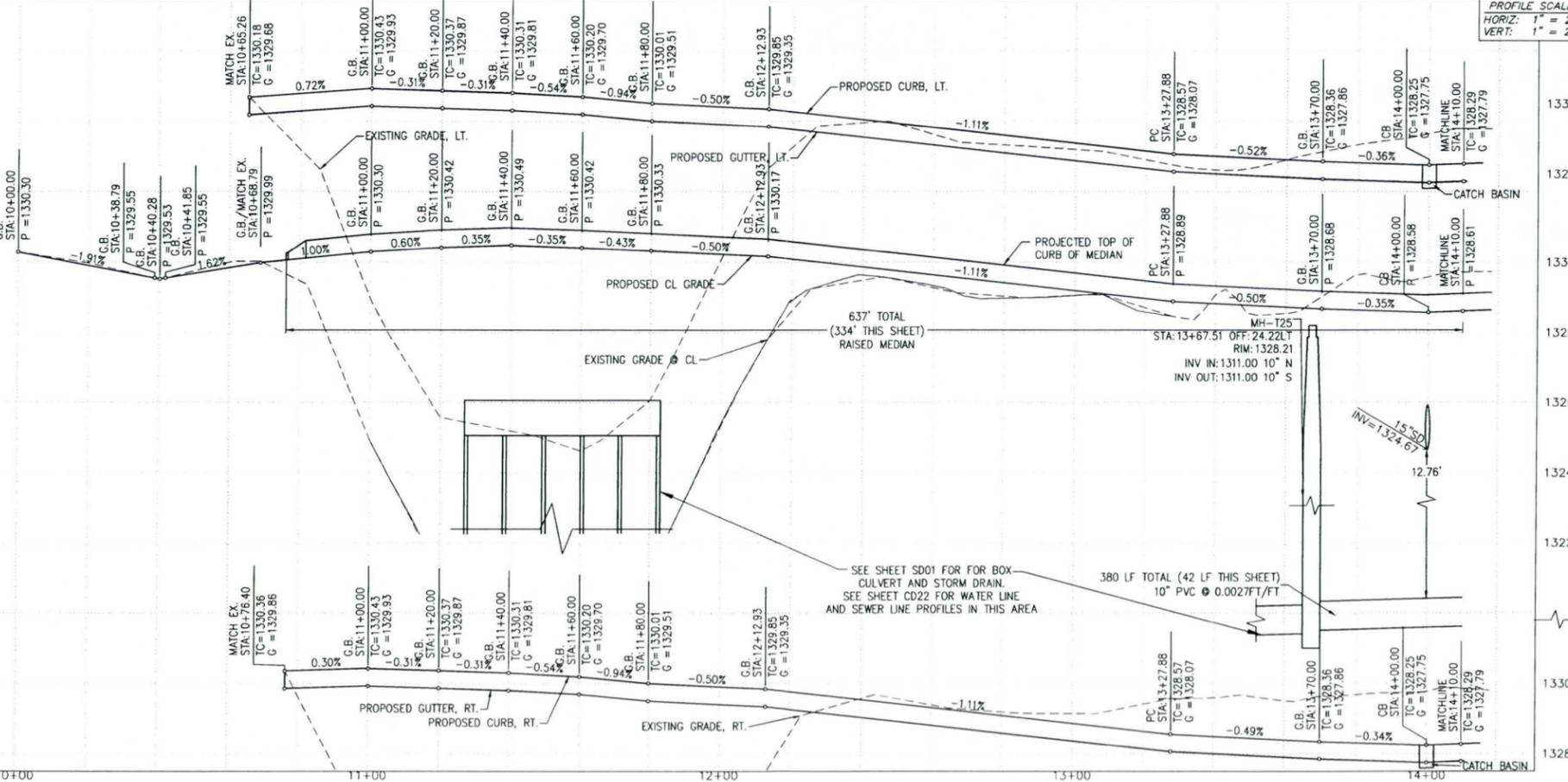


THE PROMPT PAY LAW WILL BE ALTERED FOR THIS CONTRACT  
NOTICE OF EXTENDED PAYMENT PROVISION  
THE CONSTRUCTION CONTRACT WILL ALLOW THE OWNER TO MAKE PAYMENT WITHIN THIRTY (30) DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS.



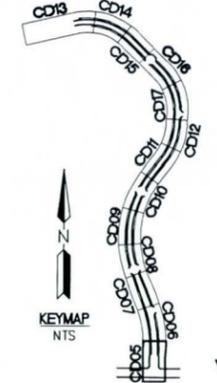
FOR STORM DRAIN PROFILE SEE SHEET SD01 PROFILE B

FOR STORM DRAIN PROFILE SEE SHEET SD01 PROFILE A



PROFILE SCALE:  
HORIZ: 1" = 20'  
VERT: 1" = 2'

- PAVING CONSTRUCTION NOTES**
- ① SURVEY MONUMENT; MAG DTL 120-1-B 1 EA
  - ② PAVEMENT: 2.5" AC OVER 9" ABC; SEE TYP. SECTION ON SHEET CD03 2330 SY
  - ④ 6" VERTICAL CURB & GUTTER; MAG DTL 220-A 669 LF
  - ⑤ 6" MOUNTABLE CURB & GUTTER W/ 2' TRANSITIONS ON EACH SIDE; MAG DTL 220-2 TYPE E 26.5 LF
  - ⑥ INSTALL 6 BOLLARDS AT 3' ON CENTER; MAG 140; OUTSIDE 2 BOLLARDS ARE TYPE 1 PERMANENT; INSIDE 4 BOLLARDS ARE TYPE 2 REMOVABLE. 12 EA
  - ⑭ REMOVE EXISTING BARRICADE NP
  - ⑮ SAWCUT & REMOVE EXISTING PAVEMENT TO A NEAT, CLEAN EDGE; MATCH WITH NEW PAVEMENT 2' MINIMUM 16 SY
  - ⑯ IRRIGATION SLEEVE; SEE LANDSCAPE PLANS FOR DTLs NP
  - ⑰ MEDIAN NOSE MODIFIED NO GUTTER; MAG DTL 223 AND TOG DTL 304. 1 EA
  - ⑳ 6" SIDEWALK; MAG DTL 230 3969 SF
  - ㉔ DECORATIVE STAMPED PAVEMENT; 2.5" AC/9" ABC PER TOG DTL 402 & MAG SPEC 702.2 & 710. 717 SY
  - ㉕ DECORATIVE PAVEMENT; 2.5" AC/9" ABC; COLOR ADDED TO AC TO SIMULATE CONCRETE GRAY PER TOG DTL 401A,B,C 29 SY
  - ㉖ 6" VERTICAL SINGLE CURB; MAG DTL 222 TYPE "A". 680 LF
- STORM DRAIN CONSTRUCTION NOTES**
- ④ LOOSE RIP-RAP D50=9"-18" THICK ON MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUAL; GRANITE TO MATCH THE DECOMPOSED GRANITE ON SITE 220 SY
  - ⑤ STORM DRAIN MANHOLE; MAG DTLs 424, 520, 522. ADJUST RIM TO GRADE PER MAG DTL 422 1 EA
  - ⑥ 15" RGRCP, CLASS IV; TOG DTL 84 36 LF
  - ⑩ 30" RGRCP, CLASS III; TOG DTL 84 251 LF
  - ⑬ 15" RGRCP, CLASS V; TOG DTL 84 73 LF
  - ⑰ CATCH BASIN; MAG DTL 534-1; TYPE E 2 EA
  - ⑲ DROP INLET HEADWALL; MAG DTL 501-5, WITH TRASH RACK; MAG DTL 502-2, WITH HANDRAIL PAINTED A BEIGE/TAN COLOR; MAG DTL 145 1 EA
  - ⑳ CONSTRUCT 10'x5' FIVE BARREL BOX CULVERT PER ADOT STD DTL ON SHEET SD03. 94 LF
  - ㉑ CONSTRUCT INLET HEADWALL/RETAINING WALL SEE LANDSCAPE ARCH. PLANS FOR AESTHETIC TREATMENT. STRUCTURAL DESIGN BY OTHERS. 128 LF
  - ㉒ CONSTRUCT OUTLET HEADWALL/RETAINING WALL SEE LANDSCAPE ARCH. PLANS FOR AESTHETIC TREATMENT. STRUCTURAL DESIGN BY OTHERS. 128 LF
  - ㉓ CONSTRUCT GUARD RAIL PER STRUCTURAL AND LANDSCAPE ARCH. DETAILS AND DESIGN. 14 EA
  - ㉔ FLARED END SECTION WITH ACCESS BARRIER ATTACHED; SEE DETAILS ON SHEET CD03 1 EA
  - ㉕ ACCESS BARRIER; COC DTL C-503. SEE SHEET CD03. 1 EA



**EAST BRIDGES BOULEVARD-SOUTH SOBOBA STREET**  
OCOTILLO ROAD & RECKER ROAD  
GILBERT, ARIZONA

**PAVING & UTILITY PLAN AND PROFILE**

PROJ.# 1127  
DATE: JULY 2012  
SCALE: 1" = 20'

**hilgartwilson**  
ENGINEERS-PLANNERS-SURVEYORS

DESIGNED: CB DRAWN: JF, JR, MR, CR APPROVED: NL  
REV. \_\_\_\_\_

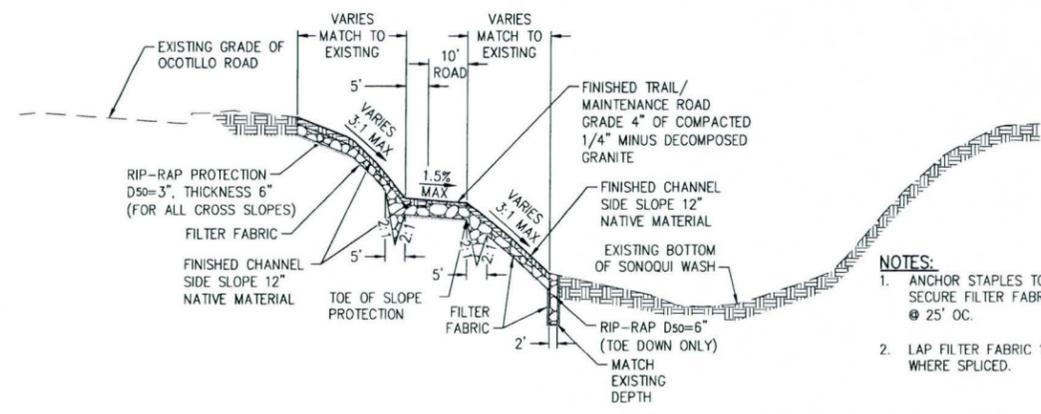
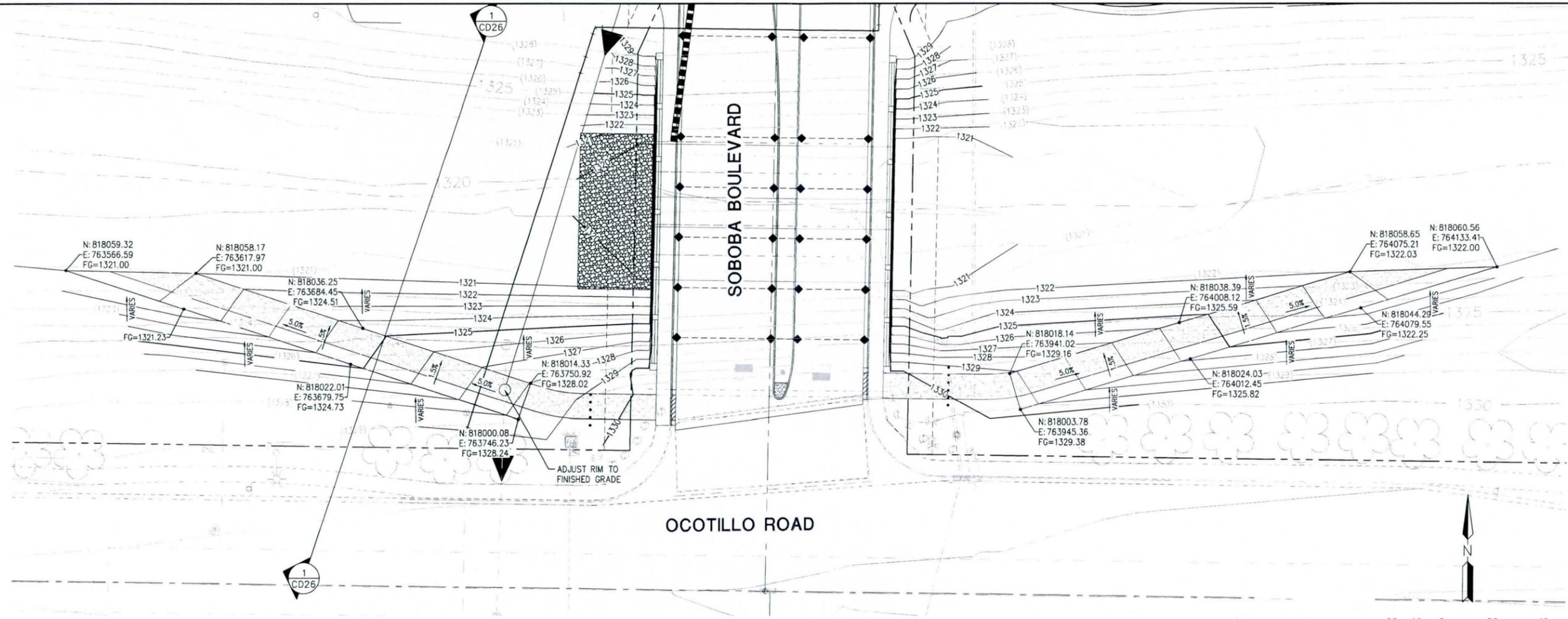
DWG. NO. **CD05**  
SHT. 5 OF 62

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- NOTES:**
1. ANCHOR STAPLES TO SECURE FILTER FABRIC @ 25' OC.
  2. LAP FILTER FABRIC 10' WHERE SPLICED.

**SECTION 1 - DETAIL OF TRAIL/MAINTENANCE ACCESS RAMP INTO SONOQUI WASH**  
N.T.S.



**EAST BRIDGES BOULEVARD-SOUTH SOBOBA STREET**  
OCOTILLO ROAD & RECKER ROAD  
GILBERT, ARIZONA

**ACCESS RAMP GRADING AND DETAILS**

PROJ. #	1127	<b>hilgartwilson</b> ENGINEERS-PLANNERS-SURVEYORS
DATE:	JULY 2012	
SCALE:	1"=40'	
DESIGNED:	CB	DRAWN: JF, JR, MR, CR
REV.		APPROVED: NL
		DWG. NO.
		<b>CD26</b>
		SHT. 26 OF 62

THE PROMPT PAY LAW WILL BE ALTERED FOR THIS CONTRACT  
NOTICE OF EXTENDED PAYMENT PROVISION  
THE CONSTRUCTION CONTRACT WILL ALLOW THE OWNER TO MAKE PAYMENT WITHIN THIRTY (30) DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS.

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MATCHLINE SEE SHEET MG21

**LEGEND**

- EXIST. CONTOURS
- PROPOSED CONTOURS
- DRYWELL
- TOP OF CURB
- FF FINISH FLOOR
- FP FINISH PAD
- FG FINISH GRADE
- SLOPE
- MASS GRADING RETAINING WALLS
- PARCEL RETAINING WALLS (SHOWN FOR REFERENCE ONLY. SEE PARCEL PLANS FOR DETAILS)
- HIGH POINT
- LOW POINT

**GRADING CONSTRUCTION NOTES**

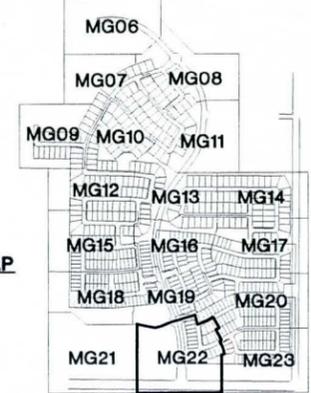
- 1 MAXWELL IV DRYWELL OR APPROVED EQUAL DETAIL ON SHEET MG03 RIM ELEVATION 0.2FT ABOVE BASIN BOTTOM 2 EA
- 2 RETAINING WALL, HEIGHT SHOWN ON PLANS. RETAINING WALL DESIGN MUST BE SUBMITTED INDEPENDENTLY BY CONTRACTOR TO BUILDING DEPARTMENT FOR REVIEW AND PERMIT. 325 LF

MATCHLINE SEE SHEET MG19

MATCHLINE SEE SHEET MG20

KEY MAP  
NTS

THE PROMPT PAY LAW WILL BE ALTERED FOR THIS CONTRACT  
NOTICE OF EXTENDED PAYMENT PROVISION  
THE CONSTRUCTION CONTRACT WILL ALLOW THE OWNER TO MAKE PAYMENT WITHIN THIRTY (30) DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS.



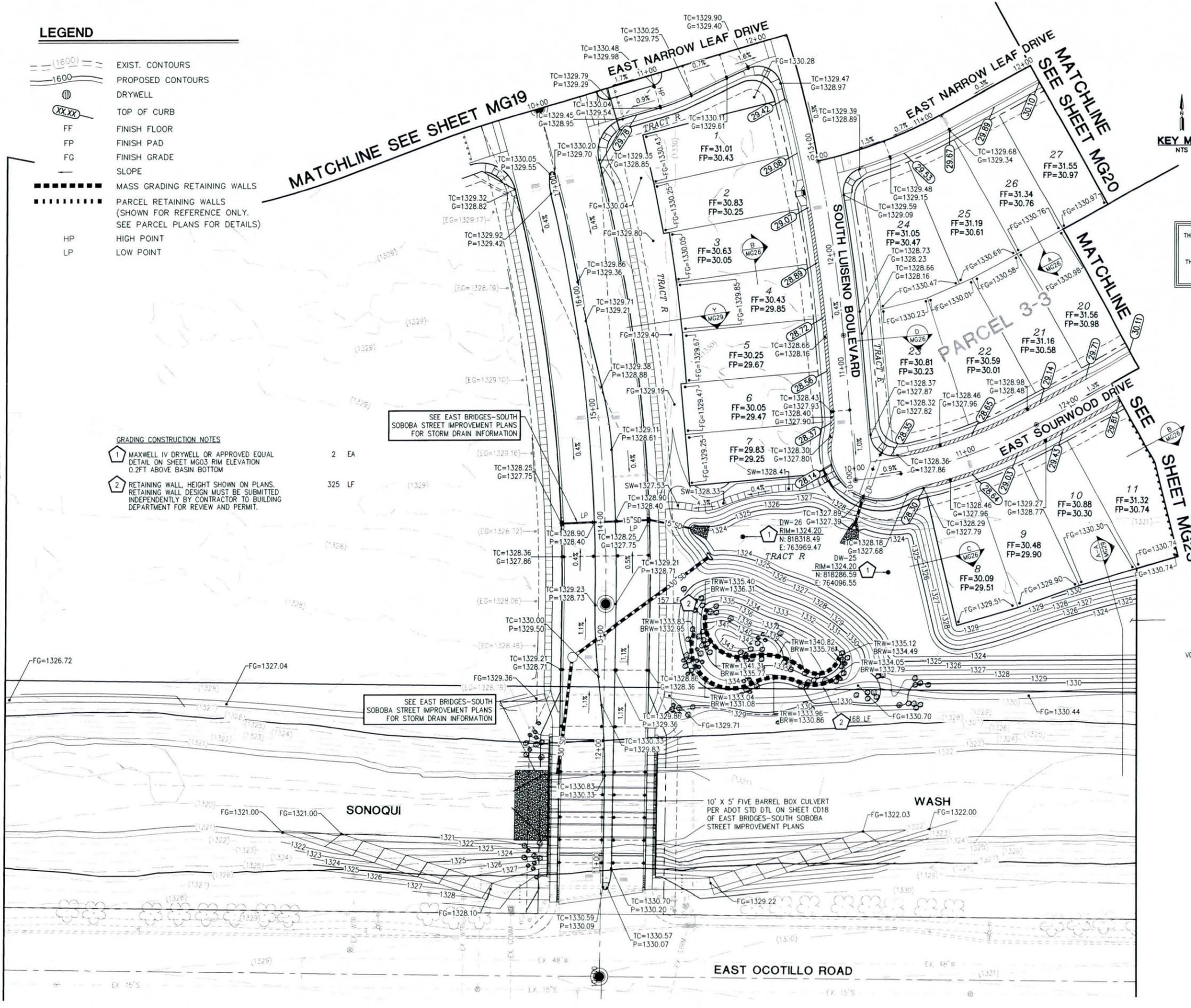
**THE BRIDGES EAST**  
MASS GRADING  
GILBERT, ARIZONA

**hilgartwilson**  
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1661 E. CAMELBACK RD., STE. 275 / PHOENIX, AZ 85016  
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www.hilgartwilson.com

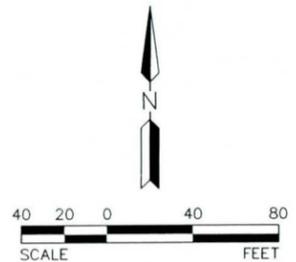


PROJ.#:	1127
DATE:	JULY 2012
SCALE:	1"=40'
DRAWN:	JF
DESIGNED:	CB
APPROVED:	NL
DWG. NO.	<b>MG22</b>
SHT.	22 OF 33

ENG 2012-00116



BASIN 3-3-4  
HW=1327  
BOT=1324  
VOL REQ(50 YR)=131,164  
VOL REQ(FIRST FLUSH)=31,916  
VOL PVD=83,063



CALL THE WORKING DAYS BEFORE YOU DIG  
602-263-1100  
1-800-STAKE-IT  
(OUTSIDE MARICOPA COUNTY)



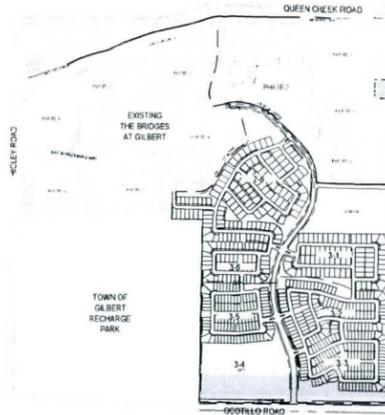
EXCERPTS OF LANDSCAPE PLANS  
- SONOQUI WASH LANDSCAPE PLANS

# The Bridges East

Sonoqui Wash  
gilbert, arizona

07.20.12

key map



#### site data:

shown for submittal purposes only

All quantities shown are for the landscape architect's estimating purposes only and therefore are not guaranteed. The contractor shall calculate quantities based on his drawing set.

onsite landscape area	157,752 s.f.
off-site landscape area	- s.f.
total turf area	- s.f.
total landscape	157,752 s.f.

#### client

Terra West Management Company  
3820 W. Happy Valley Road  
Suite 141-246  
Glendale, Arizona 85310  
p. 602.374.2777  
contact: Tom Cheney

#### consultant team

landscape architect:  
andersonbaron landscape architecture, llc  
88 s. san marcos place, suite 101  
chandler, arizona 85225  
p. 480.699.7956  
f. 480.699.7986  
contact: Andy Baron

#### civil engineer:

Hilgartwilson  
1661 East Camelback Road, Suite 275  
Phoenix, AZ 85016  
p. 602.490.0535  
f. 602.325.0161  
contact: Nguyen Lam

The Bridges East  
Sonoqui Wash  
Final Town Submittal 07.20.12



#### sheet index

cover sheet	LA0.1
general notes	LA3.1 - LA3.6
planting plans	LA4.0
irrigation master plan	LA4.1 - LA4.6
irrigation plans	LA7.1
planting details	LA7.2 - LA7.4
irrigation details	LA8.1
planting specifications	LA8.2
irrigation specifications	

#### revisions

△	_____
△	_____
△	_____
△	_____

**TOWN OF GILBERT NOTES**

1. A Town of Gilbert permit is required for the installation of any landscape or irrigation system. A CD with pdf format "AS-BUILT'S" of the landscape and irrigation plans is also required.
2. Before the Town of Gilbert will accept an installed backflow device for approval, the following must be accomplished. The device must be tested by a State Certified Backflow Tester and the test results forwarded to the Town of Gilbert Backflow Specialist. The Town will provide a current list of Certified Testers from which to select. Tester fees will be at the expense of the installer.
3. Design of any walls, entry monument signage or ramadas that may be presented herein have been reviewed as conceptual only and will require a separate review and permit from the Building Department. In no case shall the depicted walls, entry monument signage or ramadas be considered final. Approval by the Planning Department is required prior to the issuance of a Building Permit for said walls, entry monuments and ramadas.
4. No plant material shall come within 3 feet of fire hydrants or any Fire Department equipment.
5. No planting or objects within the Town of Gilbert sight visibility triangles shall exceed 2 feet. Trees shall have a 7 feet minimum clear canopy.
6. All trees, shrubs and groundcover shall meet or exceed Arizona Nursery Association (ANA) specifications.
7. Construction may begin after all permits have been obtained.

**MAINTENANCE NOTE:**  
All landscape areas and materials shall be maintained in a healthy, neat, clean and weed-free condition. This shall be the responsibility of the HOMEOWNER'S ASSOCIATION.

**CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THESE PLANS AND ANY DEVIATIONS WILL REQUIRE REAPPROVAL. LANDSCAPE INSTALLATIONS SHALL BE APPROVED BY TOWN OF GILBERT INSPECTION SERVICES BEFORE A CERTIFICATE OF OCCUPANCY CAN BE ISSUED.**

**GENERAL PROJECT NOTES:**

1. THESE NOTES ARE TO BE USED AS A GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE SPECIFICATIONS, APPROVED ADDENDUM, AND CHANGE ORDERS ASSOCIATED WITH THIS DOCUMENT SET.
2. ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS (THIS DOCUMENT SET) AND PER LOCAL OR STATE GOVERNING CODES AND/OR ORDINANCES, WHICHEVER IS APPLICABLE.
3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL REVIEW THE PROJECT WITH THE LANDSCAPE ARCHITECT AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE.
4. THE CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE PROJECT SITE AND LOCATIONS OF EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH THE WORK TO BE DONE. THE CONTRACTOR SHALL UTILIZE AN UNDERGROUND UTILITY COORDINATION SERVICE TO MARK EXISTING UTILITIES 48 HOURS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IMMEDIATELY SHOULD ANY CONFLICT ARISE.
5. THE CONTRACTOR SHALL PROVIDE MATERIALS OR EQUIPMENT AND PERFORM REQUIRED INCIDENTAL PROCEDURES THAT MAY BE NECESSARY TO COMPLETE THE PROJECT TO SATISFACTORY CONDITION AS DIRECTED BY THE DESIGN/INVENT OF THIS DOCUMENT SET AND THEREFORE SHALL MEET MINIMUM CONSTRUCTION REQUIREMENTS AND INDUSTRY STANDARDS NOT WITHSTANDING ANY OTHER REFERENCE IN THIS DOCUMENT SET.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND SHALL NOTIFY ALL UTILITY COMPANIES WITH UTILITIES ON SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT.
7. INTERPRETATION OF THIS DOCUMENT SET IN ITS ENTIRETY SHALL BE MADE BY THE LANDSCAPE ARCHITECT OF RECORD AND SHALL BE CONSIDERED FINAL. DISCREPANCIES SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR PRIOR TO SUBMITTING FORMAL BIDS. ALL CLARIFICATIONS SHALL BE PREPARED IN WRITING BY THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO BIDDING. THE CONTRACTOR SHALL ACCEPT THE INTERPRETATION OF THE LANDSCAPE ARCHITECT OF RECORD AS THE CORRECT AND FINAL INTERPRETATION.
8. THIS DOCUMENT SET, INCLUDING ALL PLAN SHEETS, NOTES, DETAILS AND SPECIFICATIONS SHALL BE UTILIZED BY THE CONTRACTOR PERFORMING INSTALLATION AS GENERAL GUIDELINES FOR THE PROJECT DESIGN/INVENT. QUANTITIES SHOWN IN THIS DOCUMENT SET ARE ESTIMATES ONLY AND ARE NOT THEREFORE GUARANTEED. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, LABOR AND EQUIPMENT IN ORDER COMPLETE PROJECT AS SPECIFIED IN THESE DOCUMENTS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO THE START OF WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING EXISTING SITE CONDITIONS.
11. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONARY MEASURES TO PROTECT EXISTING IMPROVEMENTS AND THE PUBLIC FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
12. SHOULD THE CONTRACTOR HAVE ANY QUESTIONS REGARDING THIS DOCUMENT SET OR SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING.
13. CONTRACTOR SHALL PROPERLY COORDINATE WORK TO BE PERFORMED WITH OTHER CONTRACTORS WORK PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES IMPOSED, UNINTENTIONALLY OR ACCIDENTALLY TO EXISTING UTILITIES, STRUCTURES, WALLS, OR OTHER AMENITIES, DUE TO THE ACTION OF THE CONTRACTOR, CONTRACTOR'S EMPLOYEES AND/OR THE CONTRACTOR'S SUBCONTRACTORS DAMAGE INCURRED DURING THE CONTRACTOR'S OPERATION SHALL BE REPAIRED. AT THE EXPENSE OF THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
15. EXISTING SITE CONDITIONS AND THE DOCUMENT SET BASE INFORMATION HAVE BEEN PROVIDED BY THE PROJECT CIVIL ENGINEER.
16. CONTRACTOR SHALL MATCH GRADES, LAYOUT AND ELEVATIONS OF ADJOINING LANDSCAPE WORK BY OTHERS. NOTIFY THE LANDSCAPE ARCHITECT OF CONFLICTS BEFORE PROCEEDING WITH CONSTRUCTION.
17. THE CONTRACTOR SHALL PROVIDE BARRICADES AND TRAFFIC CONTROL ALONG PUBLIC STREETS, IF REQUIRED, DURING INSTALLATION AND SHALL BE RESPONSIBLE FOR SECURING APPROVAL AND PERMIT FOR THE PROCESS.
18. DETAILS SHOWN ON SHEETS E 1 AND E 2 ARE FOR THE ENTIRE EAST MARK SOUTH AND MAY NOT BE APPLICABLE FOR EVERY PARCEL.

**PLANTING GENERAL NOTES:**

1. IN DISTURBED AREAS INDICATED TO RECEIVE REVEGETATION HYDROSEED AND/OR PLANTING, THE CONTRACTOR SHALL MATCH EXISTING NATURAL DESERT FLOOR GROUND COVER CONDITIONS ADJACENT TO THE PROJECT.
2. NATIVE REVEGETATION AREAS AND PLANTER BEDS NOTED IN THIS DOCUMENT SET SHALL BE TREATED WITH PRE-EMERGENT AS PER MANUFACTURER'S INSTRUCTIONS. RE-APPLY AS NECESSARY TO ELIMINATE INVASIVE WEEDS REMOVE ALL DEAD DEBRIS.
3. THE CONTRACTOR SHALL PROVIDE A 3" BY 8" BY 8" TYPICAL MOLDUP OF NATIVE REVEGETATION AREAS NOTED IN THIS DOCUMENT SET FOR REVIEW BY THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE.
4. CONTRACTOR SHALL REVIEW PLANTING PLAN WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL REVIEW SITE SOILS REPORT PRIOR TO PLANTING. WATER TEST ALL TREE PLANTING HOLES PRIOR TO PLANTING. IF TREE HOLE DOES NOT DRAIN, DO NOT PLANT. SEE HARDPAN DETAIL.
6. PLANTING AND IRRIGATION DESIGN MAY BE MODIFIED TO ADAPT TO HARDSCAPE CONFIGURATIONS THAT DIFFER FROM THESE PLANS, OR BECAUSE OF GRADE VARIATIONS ON SITE. SUBSTANTIAL DEVIATION FROM THIS DOCUMENT SET WILL REQUIRE REVIEW AND APPROVAL FROM OWNER'S AUTHORIZED REPRESENTATIVE.
7. LANDSCAPE ARCHITECT AND/OR OWNER'S AUTHORIZED REPRESENTATIVE RESERVE THE RIGHT TO REFUSE ANY PLANT MATERIALS DEEMED UNACCEPTABLE. SEE SPECIFICATIONS AND THIS DOCUMENT SET FOR MINIMUM REQUIREMENTS.
8. THE CONTRACTOR SHALL SUBMIT WRITING REQUESTS FOR ANY AND ALL SUBSTITUTIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
9. CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
10. ALL PLANT MATERIAL SHALL BE IN COMPLIANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION.
11. PLANT MATERIAL, MARKED "SAVINGS" SHALL BE SELECTED FROM ON-SITE SAVINGS INVENTORY OR LOCATED BY THE LANDSCAPE ARCHITECT FROM ANOTHER SOURCE. ALL MATERIAL SELECTIONS SHALL BE APPROVED BY LANDSCAPE ARCHITECT AND/OR OWNER'S AUTHORIZED REPRESENTATIVE.
12. FINAL LOCATION OF PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
13. ALL SPECIMEN TREES, SHRUBS AND CACTI SHALL BE FIELD LOCATED BY LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE.
14. LOCATE PLANTS AWAY FROM SPRINKLER HEADS, LIGHT FIXTURES AND OTHER OBSTRUCTIONS. CONTRACTOR SHALL OBSERVE MINIMUM OFFSETS FROM THE FOLLOWING STRUCTURES: TREES SHALL BE PLANTED A MINIMUM OF 10'-0" FROM STREET LIGHTS (MEASURED FROM MATERIAL MATURITY), 8'-0" FROM EDGE OF UNDERGROUND PIPELINES AND A MINIMUM OF 4'-0" FROM HARDSCAPE, CURBS AND WALLS (MEASURED FROM CENTER OF PLANT MATERIAL). SHRUBS SHALL BE PLANTED A MINIMUM OF 2'-0" FROM CURB AND WALKS AND 3'-0" FROM FIRE SUPPRESSION DEVICES (MEASURED FROM MATERIAL MATURITY). LOCAL OR STATE GOVERNING CODES AND/OR ORDINANCES SHALL SUPERSEDE SPECIFIED DISTANCES SO LONG AS THEY SUPERSEDE STATE REQUIREMENTS.
15. CONTRACTOR SHALL INSTALL "SHAWTOWN ROOT BARRIER PANELS" (OR APPROVED EQUAL) AT ALL TREES WITH 8'-0" FEET OF HARDSCAPE ELEMENTS INCLUDING (BUT NOT LIMITED TO) SIDEWALKS, ASPHALT, CONCRETE & ADS FOOTINGS AND STRUCTURES. CONTRACTOR SHALL SUBMIT SPECIFICATION SHEETS OF PROPOSED ROOT BARRIER PANELS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
16. THE CONTRACTOR SHALL INSTALL ARBOR GUARDS AT ALL TREES LOCATED IN TURF AREAS.
17. ON-SITE AND OFF-SITE TOPSOIL SHALL CONFORM TO CONTENT REQUIREMENTS AS SPECIFIED IN PART 2 OF THE PLANTING SPECIFICATIONS. AGRONOMY TEST SUBMITTALS ARE REQUIRED FOR ALL MATERIAL USED FOR TOPSOIL AND BACKFILL. SUBMIT REPORT TO LANDSCAPE ARCHITECT FOR REVIEW.
18. CACTI SHALL BE PLANTED A MINIMUM OF 3'-0" AWAY FROM ALL PEDESTRIAN ROUTES.
19. CACTI SHALL BE WELL ROOTED AND NON-SCARRED.
20. ALL TREE STAKING SHALL CONFORM TO THE PLANTING DETAILS OR AS NOTED IN THE SPECIFICATIONS. THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE SHALL REVIEW TYPICAL TREE STAKING PRIOR TO FINAL ACCEPTANCE.
21. CONTRACTOR SHALL INSTALL ANGULAR GRANITE RIP-RAP IN ALL DRAINAGE SWALES, AND WHERE INDICATED ON PLANS. REFER TO MATERIALS SCHEDULE FOR PLANTING LEGEND FOR COLOR AND SIZE OF ANGULAR GRANITE RIP-RAP. CONTRACTOR SHALL SUBMIT SAMPLES TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. CONTRACTOR SHALL REFER TO CIVIL PLANS FOR ADDITIONAL INFORMATION.
22. DECOMPOSED GRANITE IS REQUIRED IN ALL PLANTING AREAS EXCEPT AREAS OF TURF AND ANGULAR GRANITE RIP-RAP AND SHALL EXTEND UNDER PLANT MATERIAL UNLESS NOTED OTHERWISE ON PLANS. ALL PLANTING AREAS SHALL RECEIVE A 2" MINIMUM LAYER OF DECOMPOSED GRANITE THROUGHOUT. REFER TO MATERIALS SCHEDULE FOR PLANTING LEGEND FOR SIZE AND COLOR OF DECOMPOSED GRANITE. CONTRACTOR SHALL SUBMIT SAMPLES TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
23. THE CONTRACTOR SHALL PROVIDE MAINTENANCE FOR ALL PLANT MATERIAL FROM THE TIME OF INSTALLATION THROUGH SUBSTANTIAL COMPLETION.

**IRRIGATION GENERAL NOTES:**

1. THE CONTRACTOR SHALL INSTALL THE SPECIFIED SYSTEM IN ACCORDANCE WITH THE ATTACHED SCHEDULES, NOTES, DETAILS AND SPECIFICATIONS.
2. CONTRACTOR TO VERIFY PRESSURE ON-SITE AND NOTIFY LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO INSTALLATION OR ORDERING OF MATERIALS. IF CONTRACTOR FAILS TO NOTIFY THE PROPER PARTY, THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR ALL NECESSARY SYSTEM ADJUSTMENTS REQUIRED TO FACILITATE AN EFFICIENT AND OPERATIONAL SYSTEM. THIS IRRIGATION SYSTEM REQUIRES A MINIMUM OF 85 TO 75 PSI WATER PRESSURE AT WATER METER.
3. THE CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING ON PROJECT TO VERIFY INSTALLATION CONDITIONS.
4. THE CONTRACTOR SHALL FIELD VERIFY EXISTING TAP LOCATIONS. ALL NEW METERS SHALL BE INSTALLED PER THE IRRIGATION SCHEDULE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL IRRIGATION COVERAGE OF ALL PLANT MATERIAL INCLUDING TURF.
6. WORK SHALL CONFORM TO ALL CONSTRUCTION CODES AND REGULATIONS.
7. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT AN UNDERGROUND UTILITY COORDINATION SERVICE TO VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES THAT MAY BE AFFECTED BY DESCRIBED WORK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THE IRRIGATION INSTALLATION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER AND/OR THE OWNER'S REPRESENTATIVE FOR ANY DESIGN CHANGES MADE AS A RESULT OF DETECTION BY THE CONTRACTOR FROM THE PLANS AND SPECIFICATIONS OR DUE TO ERRORS, FAULTY MATERIAL, OR FAULTY WORKMANSHIP.
9. ALL VALVES SHALL NOT EXCEED MANUFACTURER'S SPECIFICATIONS.
10. SUPPLY THE FOLLOWING MATERIAL TO THE OWNER:
  - 10.1. TWO WRENCHES FOR DISASSEMBLY AND ADJUSTING OF EACH TYPE OF SPRINKLER HEAD AND VALVE SUPPLIED.
  - 10.2. TWO KEYS FOR EACH OF THE CONTROLLERS.
  - 10.3. TWO COUPLERS WITH MATING HOSE, BBSB AND SHUT-OFF VALVE.
  - 10.4. TWO VALVE BOX KEYS.
11. INSTALL PVC MAINLINE AND LATERALS ACCORDING TO THE IRRIGATION AND PIPING SCHEDULES.
12. ALL VALVES SHALL NOT EXCEED MANUFACTURER'S DESIGN SPECIFICATIONS.
13. VALVE BOXES SHALL BE SQUARE TO ADJACENT WALKS OR CURBS AND FLUSH WITH THE FINAL GRADE.
14. CONTRACTOR SHALL INSTALL GREEN VALVE BOXES IN TURF AREAS AND TAN VALVE BOXES IN DECOMPOSED GRANITE AREAS.
15. INSTALL ALL MAINLINES WITH A MINIMUM OF 20" OF COVER.
16. INSTALL ALL LATERALS WITH A MINIMUM OF 12" OF COVER.
17. ALL PIPE TO BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND ASTM STANDARD D 2774.
18. FLUSHINGS OF ALL LINES PRIOR TO INSTALLATION OF SPRINKLERS AND EMMITS IS REQUIRED.
19. INSTALL ALL SPRINKLER EMMITS, AND RELATED MATERIAL PER IRRIGATION SYSTEM SPECIFICATIONS AND DETAILS.
20. CONTROLLER TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. CONTROLLER SIZE AND QUANTITIES TO BE DETERMINED BY THE VALVE REQUIREMENTS AND POINT OF CONNECTIONS. INSTALL ONE (1) CONTROLLER AT EACH POINT OF CONNECTION.
21. ALL ELECTRICAL CONNECTIONS SHALL BE MADE AT THE REMOTE CONTROL VALVE, BOX, CONTROLLER ENCLOSURES AND VALVE BOXES SPECIFICALLY FOR ELECTRICAL CONNECTIONS.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL WIRING FROM THE CIRCUIT BREAKER AT THE 120 VOLT SOURCE LOCATION TO AUTOMATIC CONTROLLER.
23. CONTROLLER WIRES THAT ARE DIRECT BURIED SHALL BE #14 OR BETTER, BUNDLED OR WRAPPED A MINIMUM OF EVERY TWELVE (12) FEET DURING INSTALLATION WIRES SHALL BE 1/4" LOOP TIED IN ALL DIRECTION CHANGES GREATER THAN 30 DEGREES AND BE LIMITED PRIOR TO TRENCH FILL IN INSTALL. ALL VALVE WORKING IN MAINLINE TRENCHES AS DETAILED.
24. INSTALL ALL MAINLINE GATE VALVES IN A ROUND PLASTIC VALVE BOX PER DETAILS.
25. THE MAINLINE, LATERAL, PIPE, AND VALVES ARE SHOWN SCHEMATICALLY AND SHALL BE INSTALLED WITHIN THE LANDSCAPE AREA ADJACENT TO HARDSCAPE WITHIN DESCRIBED LIMIT OF WORK.
26. ALL MAINLINE PIPE SHALL BE A MINIMUM OF SCHEDULE 40.
27. ALL MAINLINE AND IRRIGATION EQUIPMENT SHALL BE PLACED IN THE LANDSCAPED AREAS.
28. SLEEVES SHALL BE A MINIMUM OF TWO TIMES THE DIAMETER OF THE LINE SIZE AND INSTALLED AS SCHEDULE 40 PVC MINIMUM.
29. ALL PVC SOLVENT WELD FITTINGS SHALL BE LASCO OR APPROVED EQUAL.
30. FLUSHCAPS SHALL BE PLACED IN A VALVE BOX AT THE END OF ALL LATERALS.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND FINISHING OF ASPHALT AND CONCRETE AS REQUIRED FOR SLEEVE INSTALLATION ACCORDING TO THE IRRIGATION SCHEDULE.
32. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. USE LIQUID TEFLON ON METAL PIPE THREADED JOINTS ONLY.
33. INSTALL ALL ELECTRICAL JOINTS WITH 3M WATERPROOF CONNECTORS.
34. ALL 120 VOLT POWER WIRE TO BE INSTALLED PER LOCAL CODE.
35. INSTALL ALL REMOTE CONTROL VALVES AT HEIGHT INDICATED ON DETAILS AS HIGH AS POSSIBLE BUT ALLOWING CLEARANCE BETWEEN VALVE BOX LID AND FLOW CONTROL HANDLE ON REMOTE CONTROL VALVE.
36. ALL VALVES, PRESSURE REGULATORS AND OTHER DEVICES SHALL BE PLACED IN AN APPROPRIATELY SIZED VALVE BOX WITH A MINIMUM OF TWO (2) INCHES OF GRAVEL.
37. ALL PIPE CROSSINGS IN THE RIGHT-OF-WAY SHALL BE MARKED ON EACH SIDE OF THE CURB WITH A NON-DESTRUCTIBLE MARKING.
38. ALL BACKFLOW PREVENTION DEVICES SHALL HAVE A MINIMUM 2" (1/4") CLASS CONCRETE SLAB WITH PIPE SLEEVES. IF A SECURITY CAGE IS INSTALLED, CONCRETE SHALL BE SIX (6) INCHES LARGER ON ALL SIDES THAN THE SECURITY CAGE.
39. BACKFLOW DEVICES SHALL BE A MINIMUM OF TWO (2) FEET FROM THE WATER METER AND BE THE SAME SIZE AS THE TEE SERVICE LINE.
40. AFTER INITIAL TESTING, ALL BACKFLOW DEVICES SHALL BE TESTED ANNUALLY PRIOR TO PLACING ANY IRRIGATION SYSTEM IN SERVICE. AN ARIZONA CERTIFIED BACKFLOW DEVICE TESTER SHALL TEST THE BACKFLOW PREVENTION DEVICE AND GIVE A COPY OF THE PASSED TEST RESULTS TO THE PROPER GOVERNING AGENCIES.

**GRADING GENERAL NOTES:**

1. CONTRACTOR SHALL GRADE TO MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND MAINTAIN AND/OR CREATE DRAINAGE SPECIFIED ON THE PROJECT CIVIL ENGINEERS CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL KEEP DRAINAGEWAYS AND NATURAL FLOW CHANNELS SPECIFIED FREE FROM OBSTRUCTIONS THAT MAY IMPAIR FLOW.
2. FINISH GRADING SHALL BE BY THE DIRECTION OF THE LANDSCAPE ARCHITECT. ALL GRADING SHALL BE APPROVED BY OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO PLANTING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY CAULKE ENCOUNTERED ON SITE AT NO ADDITIONAL COST TO THE OWNER.
4. FINISH GRADE OF ALL PLANTING AREAS IS TO BE 1" BELOW ADJACENT HARDSCAPE UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A NATURAL UNDULATING GROUNDPLANE IN ALL PLANTING AREAS THE DIRECTION OF THE LANDSCAPE ARCHITECT.

**TOWN OF GILBERT GENERAL NOTES**

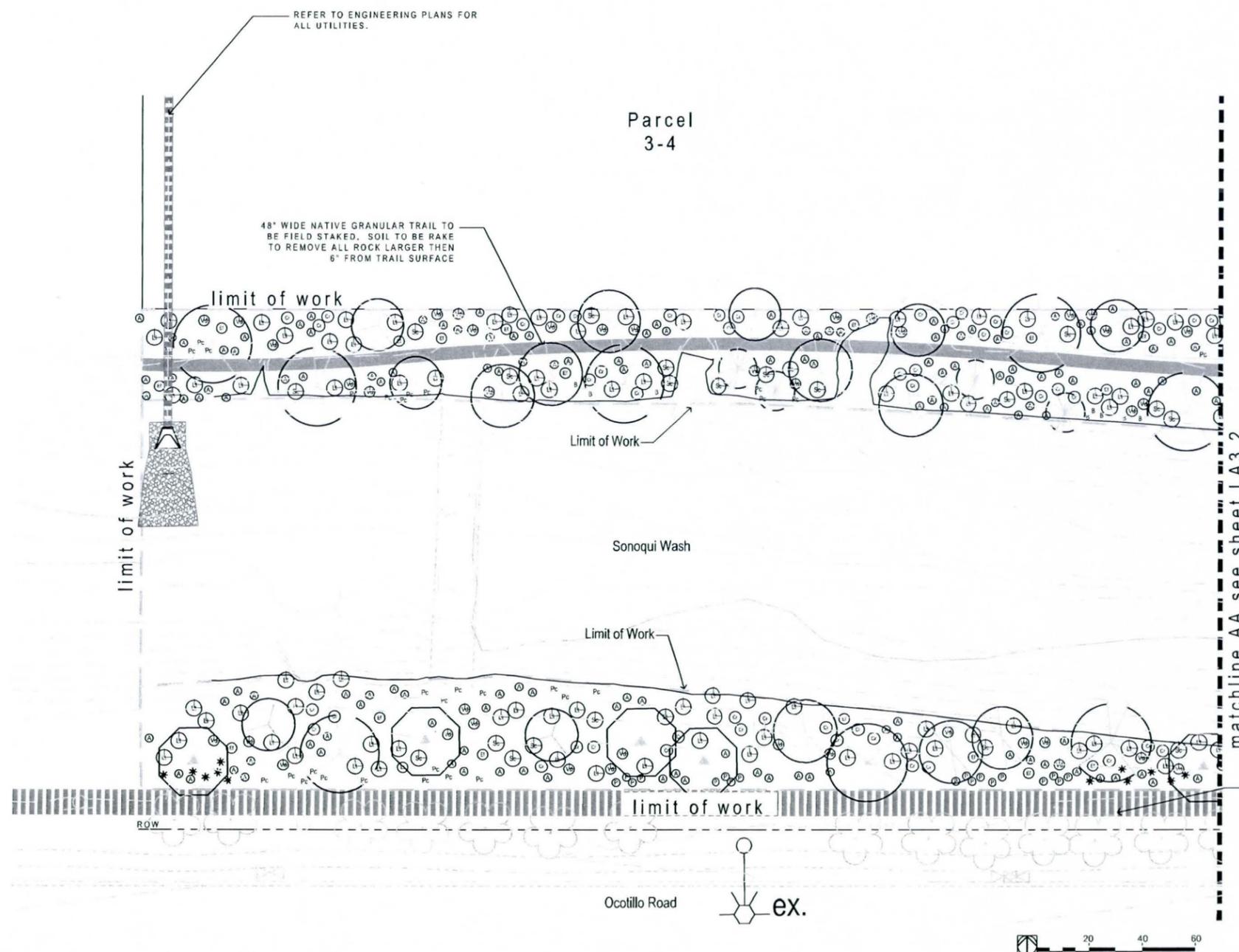
- PAVING NOTES**  
SUBGRADE MUST MEET ALL TOWN OF GILBERT TESTING REQUIREMENTS AND HAVE APPROVAL OF THE ENGINEERING DEPARTMENT 24 HOURS PRIOR TO PLACING BASE COURSE MATERIAL. STOOPIPING OF BASE MATERIAL ON THE SUBGRADE WILL NOT BE PERMITTED. THE FINISHED BASE COURSE MUST MEET ALL TOWN OF GILBERT TESTING REQUIREMENTS AND HAVE APPROVAL OF THE ENGINEERING DEPARTMENT 24 HOURS PRIOR TO THE PLACEMENT OF ASPHALT.
- CONCRETE NOTES**  
ALL SUBGRADE MUST MEET ALL TOWN OF GILBERT TESTING REQUIREMENTS AND HAVE APPROVAL OF THE ENGINEERING DEPARTMENT 24 HOURS PRIOR TO ANY CONCRETE PLACEMENT FOR SIDEWALK, CURBS AND/OR GUTTER, VALLEY GUTTER, APPROX. SCURPERS, THRUST BLOCKS, MANHOLE BASES, DRIVEWAY, DRIVEWAY ENTRANCES, REBSON CURBS AND INLETS.
- WATER AND SEWER MAIN CONSTRUCTION NOTE**  
BEDDING MATERIAL AND THE PLACEMENT OF THE BEDDING MATERIAL MUST MEET ALL TOWN OF GILBERT TESTING REQUIREMENTS AND HAVE APPROVAL OF THE ENGINEERING DEPARTMENT 24 HOURS PRIOR TO ANY PIPE INSTALLATION. HAUNDRING AND INITIAL BACKFILL MUST BE APPROVED BY THE ENGINEERING DEPARTMENT PRIOR TO FINAL BACKFILL.
- LANDSCAPE IRRIGATION NOTE**  
ALL LANDSCAPE AND IRRIGATION INSTALLATIONS ARE TO BE IN ACCORDANCE WITH ALL TOWN OF GILBERT STANDARDS, STREETScape GUIDELINES, AND APPROVED PLANS. THE ENTIRE SYSTEM INCLUDING ALL FITTINGS AND CONNECTIONS MUST BE INSPECTED AND TESTED BEFORE BACKFILLING BY THE TOWN OF GILBERT OFF-SITE INSPECTOR. THE TOWN OF GILBERT WATER DEPARTMENT REQUIRES AN INSPECTION OF ALL BACKFLOW PREVENTION DEVICES. PLANTING MATERIALS ARE TO BE INSPECTED BY THE PLANNING DEPARTMENT. THE OFF-SITE INSPECTOR WILL COORDINATE AND/OR SCHEDULE ALL INSPECTIONS. ALL WORKMANSHIP AND MATERIALS MUST BE UNDER WARRANTY FOR A PERIOD OF ONE YEAR. BY THE CONTRACTOR AND/OR DEVELOPER. ALL PLANT MATERIAL MUST BE WARRANTED AS SPECIFIED ON THE APPROVED PLANS.
- MAINTENANCE NOTE**  
ALL LANDSCAPE AREAS AND MATERIALS SHALL BE MAINTAINED IN A HEALTHY, NEAT, CLEAN, AND WEED-FREE CONDITION. THIS SHALL BE THE RESPONSIBILITY OF THE HOMEOWNERS ASSOCIATION.
- EFFLUENT NOTE**  
ALL IRRIGATION MUST COMPLY WITH TOWN OF GILBERT RECLAIMED WATER MANUAL, MAG SECTION 618.
- GENERAL NOTES**  
EXCAVATION AND CONSTRUCTION WORK WILL NOT BE PERMITTED IN PUBLIC RIGHT-OF-WAY OR PUBLIC UTILITY EASEMENTS ON SATURDAY, SUNDAY OR LEGAL HOLIDAYS.
- ALL IMPROVEMENTS WITHIN THE RETENTION BASIN AND/OR ROADWAY PARALLELS SHALL BE IN ACCORDANCE WITH THE LATEST TOWN OF GILBERT PROCEDURES FOR DEVELOPERS AND ENGINEERS.
- CONTRACTOR IS ADVISED THAT AN EXCAVATION AND DIRT MOVING PERMIT IS REQUIRED BY THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND THE TOWN OF GILBERT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THIS PERMIT AND COMPLY WITH ITS REQUIREMENTS DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR WILL BE REQUIRED TO PERFORM DAILY CLEANUP AND MAINTENANCE OF ALL ADJACENT (OFF-SITE) ROADWAYS USED DURING THE COURSE OF THIS CONSTRUCTION.
- ALL SPRINKLER AND LANDSCAPE WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE TOWN OF GILBERT PROCEDURE MANUAL. SEPARATE PERMIT REQUIRED FOR LANDSCAPE IRRIGATION INSTALLATIONS.
- NO WALLS, BUILDINGS, OR OTHER VIEW OBSTRUCTIONS IN EXCESS OF TWO (2) FEET IN HEIGHT SHALL BE PLACED ON ANY CORNER LOT WITHIN A TRIANGULAR AREA FORMED BY THE CURBLINES AND A LINE CONNECTING THEM AT POINTS 30 FEET FROM THE INTERSECTION OF THE CURBLINES. TREES MAY BE LOCATED WITHIN THE TRIANGLE PROVIDED THEY ARE PLANTED HIGH ENOUGH TO PERMIT UNOBSTRUCTED VISION (7'-0" CLEAR MINIMUM).
- CALL THE BLUE STAKE CENTER (263-1198) 48 HOURS BEFORE DIGGING FOR LOCATION OF UNDERGROUND UTILITIES.
- TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH MAG SPECIFICATION 401. THE MANUAL ON UNIFORM TRAFFIC CONTROL, DEVICES AND THE CURRENT CITY OF PHOENIX TRAFFIC CONTROL MANUAL.
- ALL TRAFFIC CONTROL, INCLUDING STOPPING AND REGULATED SIGNAGE, SHALL BE INSTALLED WITHIN ONE (1) WEEK OF THE INSTALLATION OF THE FIRST LIFT OF PAVING.
- ALL SIGHT LINES SHALL BE DESIGNED AND BE MAINTAINABLE PER TOWN OF GILBERT STANDARD DETAILS 92 AND 93.
- A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE TOWN TRAFFIC ENGINEER 48 HOURS PRIOR TO PERFORMING ANY WORK IN THE TRAVELED RIGHT-OF-WAY.
- THE CONTRACTOR SHALL ADHERE TO ALL THE TOWN OF GILBERT ORDINANCES FOR TRAFFIC CONTROL.

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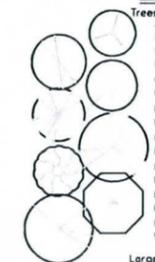
**TerraWest COMMUNITIES**  
Bridges East  
Sonoqui Wash  
gilbert, arizona  
general notes

revisions	
issued for	
design dev.	
progress set	
city submitted	07/20/12
bid package	
construction	
title	general notes
date issued	07/20/12
scale	na
drawn by	staff
checked by	AB
printed number	64-001-11
revision number	
sheet number	



**PLANT MATERIALS LEGEND**

Plant Name	Size	Qty
<b>Trees</b>		
Acacia umellii	24" Box	27
Sweet Acacia	Mult	
Chikapa Bransford	24" Box	35
Desert Willow	Mult	
Chilopsis laschikensis	24" Box	5
Chilapa	-	
Lycium microphyllum	15 Gal	11
Desert Fan	-	
Panicum floridum	24" Box	28
Blue Palo Verde	Mult	
Panicum microphyllum	24" Box	7
Fruited Palo Verde	Mult	
Prosopis chilensis	15 Gal	23
Chikan Mesquite	Mult	
Prosopis velutina	24" Box	14
Velvet Mesquite	Mult	
<b>Large Shrubs</b>		
Callitriche californica	5 gal.	291
Red Fairy Duster	-	
Larrea tridentata	5 gal.	415
Crocosia	-	
Sesuvium chinensis (from MSN)	5 gal.	136
Jopba	-	
Viguiera deltoidea	5 gal.	238
Calliopsis	-	
<b>Medium Shrubs</b>		
Eriola serotina	5 gal.	79
Bittesuh	-	
Leucophyllum pendulum Thunder Cloud	5 gal.	14
Thunder Cloud Sage	-	
<b>Ground Covers</b>		
Artemisia deltoidea	1 gal.	829
Triangle Leaf Bursage	-	
Phacelias confertiflora	1 gal.	195
Paper Flower	-	
Acacia rostrata	1 gal.	9
Prostrate Acacia	-	
Lantana montevidensis	1 gal.	192
Purple Trailing Lantana	-	
Hemizonia stricta Prostrate	1 gal.	29
Trailing Rosemary	-	
Underground Leucanthemum	1 gal.	30
Blackfoot Daisy	-	
<b>Accents</b>		
Daylily wheelert	5 gal.	135
Desert Spoon	-	
<b>Inerts</b>		
Decomposed Granite	-	
2" deep, 1/2" Minus Gels Brown-dust 13, sheet LA7.1	157,752 SF.	
48" Native Granular Trail	10,144 SF.	
Raked native granular soil	-	
Stabilized Granular Pad	278 SF.	
3" deep 1/4" Minus, see detail sheet LA3.4	-	



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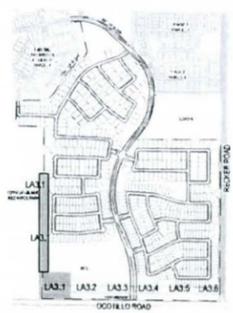


**TerraWest COMMUNITIES**  
 Bridges East  
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 Gilbert, Arizona  
 planting plans

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issued for	
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<input type="checkbox"/> progress set	
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title	planting plans
date issued	07.20.12
scale	1" = 20'-0"
drawn by	staff
checked by	AB
project number	64-001-11
review number	
sheet number	

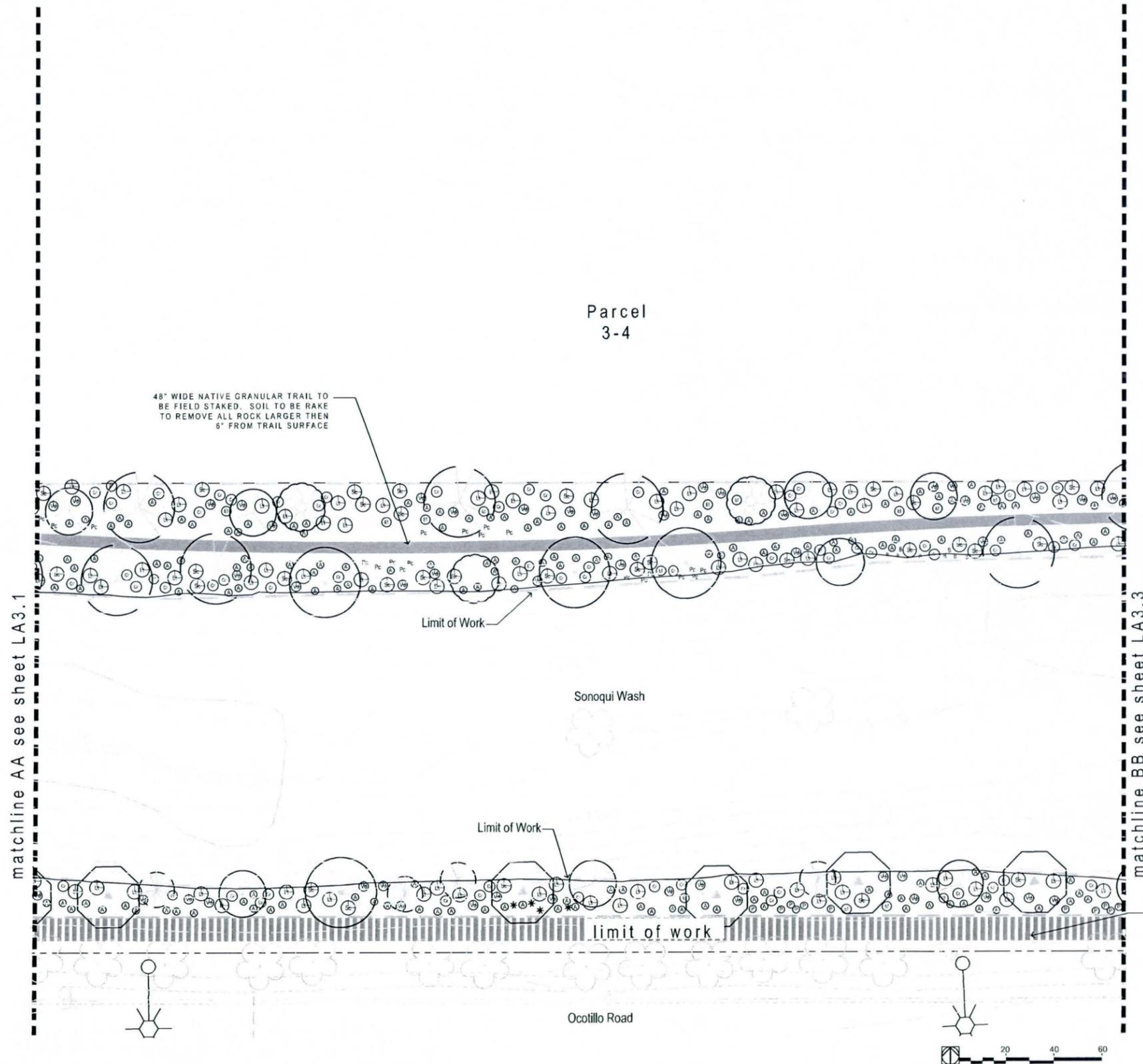
**LA3.1**  
 3 of 21

EXISTING GRANULAR TRAIL, SIDEWALK AND PLANT MATERIAL TO REMAIN UNDISTURBED ALONG THE OCOTILLO ROAD FRONTAGE.



CALL THE WORKING DAYS BEFORE VOICING.  
 1-800-STAKE-IT  
 (822) 263-1100





matchline AA see sheet LA3.1

matchline BB see sheet LA3.3

Parcel  
3-4

48' WIDE NATIVE GRANULAR TRAIL TO  
BE FIELD STAKED. SOIL TO BE RAKE  
TO REMOVE ALL ROCK LARGER THEN  
6" FROM TRAIL SURFACE

Limit of Work

Limit of Work

Ocotillo Road

limit of work

EXISTING GRANULAR TRAIL, SIDEWALK  
AND PLANT MATERIAL TO REMAIN  
UNDISTURBED ALONG THE OCOTILLO  
ROAD FRONTAGE.



PLANT MATERIALS LEGEND

Plant Name	Size	Qty.
<b>Trees</b>		
Acacia small	24" Box	27
Sweet Acacia	Mult	
Chikapa Ironwort	24" Box	35
Desert Willow	Mult	
Chikapa Yucca	24" Box	5
Chikapa	-	
Lyallia microphylla	15 Gal	11
Desert Fern	-	
Panicum floridum	24" Box	26
Blue Palo Verde	Mult	
Panicum microphyllum	24" Box	7
First Palo Verde	Mult	
Prosopis juliflora	15 Gal	23
Chikapa Ironwort	Mult	
Prosopis juliflora	24" Box	14
Velvet Mesquite	Mult	
<b>Large Shrubs</b>		
Callitriche californica	5 gal.	291
Hot Fishy Duster	-	
Larrea tridentata	5 gal.	415
Crocodile	-	
Sarcobatus chrysophyllus (from MSN)	5 gal.	138
Agave	-	
Viguiera filifolia	5 gal.	238
Goldeneye	-	
<b>Medium Shrubs</b>		
Encelia serotina	5 gal.	79
Bottlebrush	-	
Leucophyllum candidulum Thunder Cloud	5 gal.	14
Thunder Cloud Sage	-	
<b>Ground Covers</b>		
Ambrosia deltoidea	1 gal.	829
Triangle Leaf Bursage	-	
Palafoxia scopulorum	1 gal.	105
Paper Flower	-	
Acacia rubra	1 gal.	9
Prosopis juliflora	-	
Larrea monobloccata	1 gal.	192
Purple Trailing Larrea	-	
Hesperaloe parviflora Prostrate	1 gal.	29
Trailing Rosemary	-	
Melanthera leucanthemum	1 gal.	30
Blackfoot Daisy	-	
<b>Accents</b>		
Daylily wheel	5 gal.	135
Desert Spoon	-	
<b>Inerts</b>		
Decomposed Granite	-	157,752 SF
2" deep, 1/2" Minus, Gils Brown-dot #3, sheet LA7.1	-	
48" Native Granular Trail	-	10,144 SF
Raked native granular soil	-	
Stablest Granular Pad	-	278 SF
3" deep 1/4" Minus, see detail sheet LA3.4	-	



key map

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Bridges East  
Sonoqui Wash  
Gilbert, Arizona  
planting plans

TerraWest  
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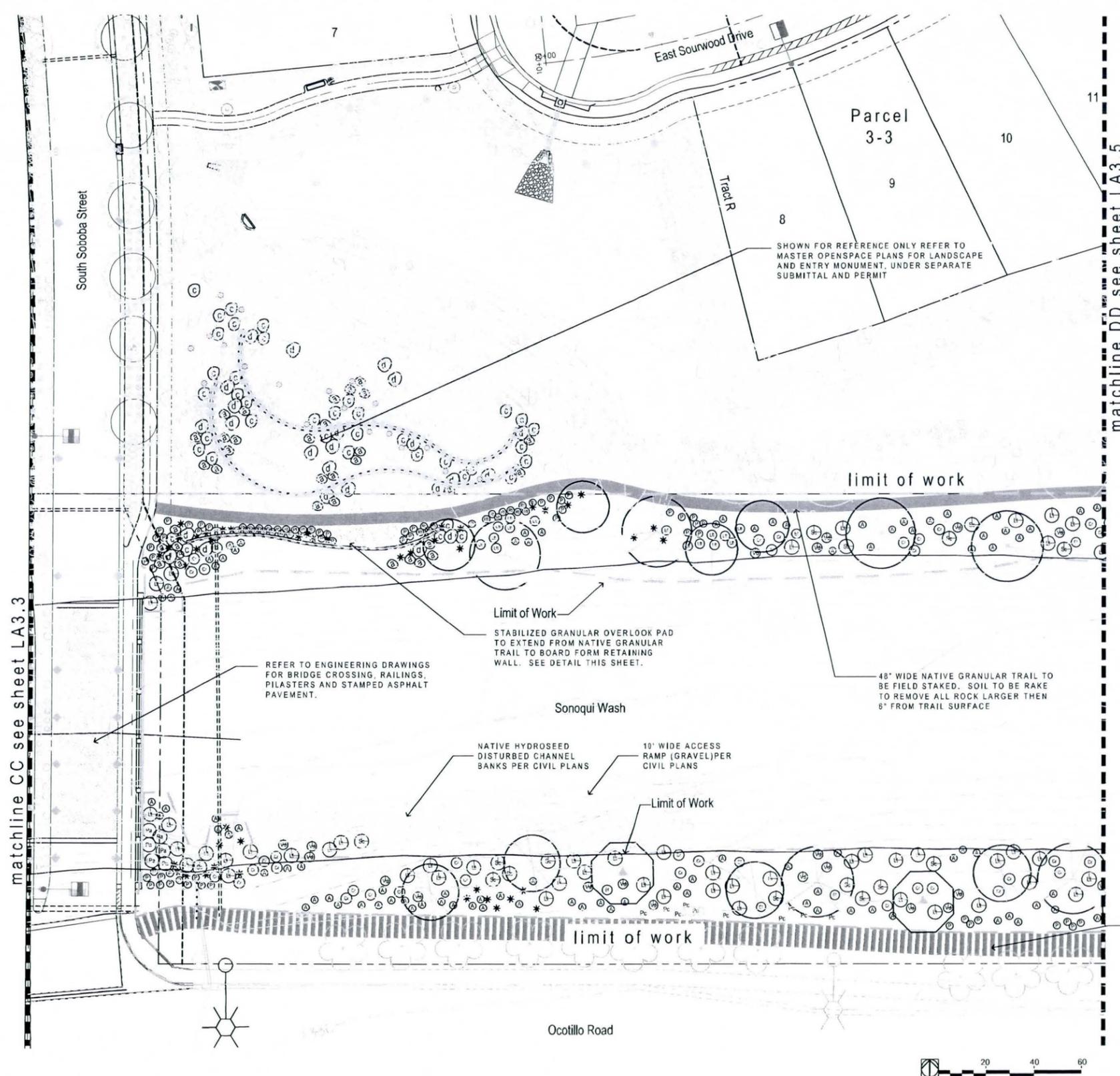
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project number 64-001-11

review number

sheet number

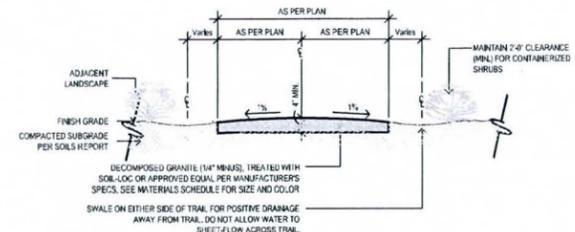
LA3.2





**PLANT MATERIALS LEGEND**

Plant Name	Size	Qty
<b>Trees</b>		
Acacia small	24" Box	27
Sweet Acacia	Mult	
Chilopsis linearis	24" Box	35
Desert Willow	Mult	
Chilopsis linearis	24" Box	5
Chilopsis		
Lycium microphyllum	15 Gal	11
Desert Fern		
Parthenocissus	24" Box	26
Blue Palo Verde	Mult	
Parthenocissus microphylla	24" Box	7
Footballs Palo Verde	Mult	
Prosopis juliflora	15 Gal	23
Chilopsis linearis	Mult	
Prosopis juliflora	24" Box	14
Velvet Mesquite	Mult	
<b>Large Shrubs</b>		
Callitriche californica	5 gal.	291
Red Fairy Duster		
Larrea tridentata	5 gal.	415
Croton		
Silene acaulis (from MSN)	5 gal.	136
Yucca		
Viguiera californica	5 gal.	236
Gutierrezia		
<b>Medium Shrubs</b>		
Eriogonum fasciculatum	5 gal.	79
Leucophyllum candidum Thunder Cloud	5 gal.	14
Thunder Cloud Sage		
<b>Ground Covers</b>		
Amorpha deltoidea	1 gal.	829
Yucca Leaf Burrage		
Palafoxia cooperi	1 gal.	105
Paper Flower		
Acacia redolens	1 gal.	9
Prostrate Acacia		
Lantana montevidensis	1 gal.	182
Purple Trailing Lantana		
Rosmarinus officinalis Prostratus	1 gal.	29
Trailing Rosemary		
Mulimaculatum fasciculatum	1 gal.	30
Blackfoot Daisy		
<b>Accents</b>		
Dawsonia wislizeni	5 gal.	136
Desert Spoon		
<b>Inerts</b>		
Decomposed Granite		
2" deep, 1/2" Minus Gls Brown-detailed 13 sheet LA7.1	157,752 SF	
48" Native Granular Trail	10,144 SF	
Raked native granular soil		
Stabilized Granular Pad	278 SF	
3" deep 1/4" Minus, see detail sheet LA3.4		



- Stabilized Granular Pad**
1. PREPARE SUB-GRADE TO LINE AND GRADE ALLOWING FOR POSITIVE DRAINAGE.
  2. SUB-GRADE SHALL BE COMPACTED AS SPECIFIED PRIOR TO PLACEMENT OF PRE-STABILIZED GRANITE COMPACT BASE MATERIAL (AS SPECIFIED PRIOR TO PLACEMENT OF PRE-STABILIZED GRANITE).
  3. SPREAD PRE-STABILIZED GRANITE OVER PREPARED SUB-BASE/BASE MATERIAL TO SPECIFIED DEPTH.
  4. AFTER SPREADING AND LEVELING PRE-STABILIZED GRANITE, THOROUGHLY SATURATE THE ENTIRE DEPTH OF PRE-STABILIZED GRANITE WITH WATER TO ACTIVATE STABILIZING COMPOUND. (RANDOM CORE SAMPLING SHOULD BE DONE TO ENSURE FULL DEPTH PENETRATION.)
  5. AFTER THE PRE-STABILIZED GRANITE HAS BEEN SATURATED ALLOW TO DRY TO A COMPACTABLE CONSISTENCY (OPTIMUM MOISTURE AND COMPACT WITH A VIBRATORY COMPACTOR OR 3/4 TON STEEL DRUM ROLLER. (DRY TIME CAN RANGE FROM 2 TO 24 HOURS DEPENDING ON WEATHER CONDITIONS.)
  6. PROTECT FROM TRAFFIC UNTIL ENTIRE DEPTH OF PRE-STABILIZED GRANITE HAS COMPLETELY DRIED. (THIS COULD BE 48 TO 72 HOURS DEPENDING ON WEATHER.)



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AB

project number

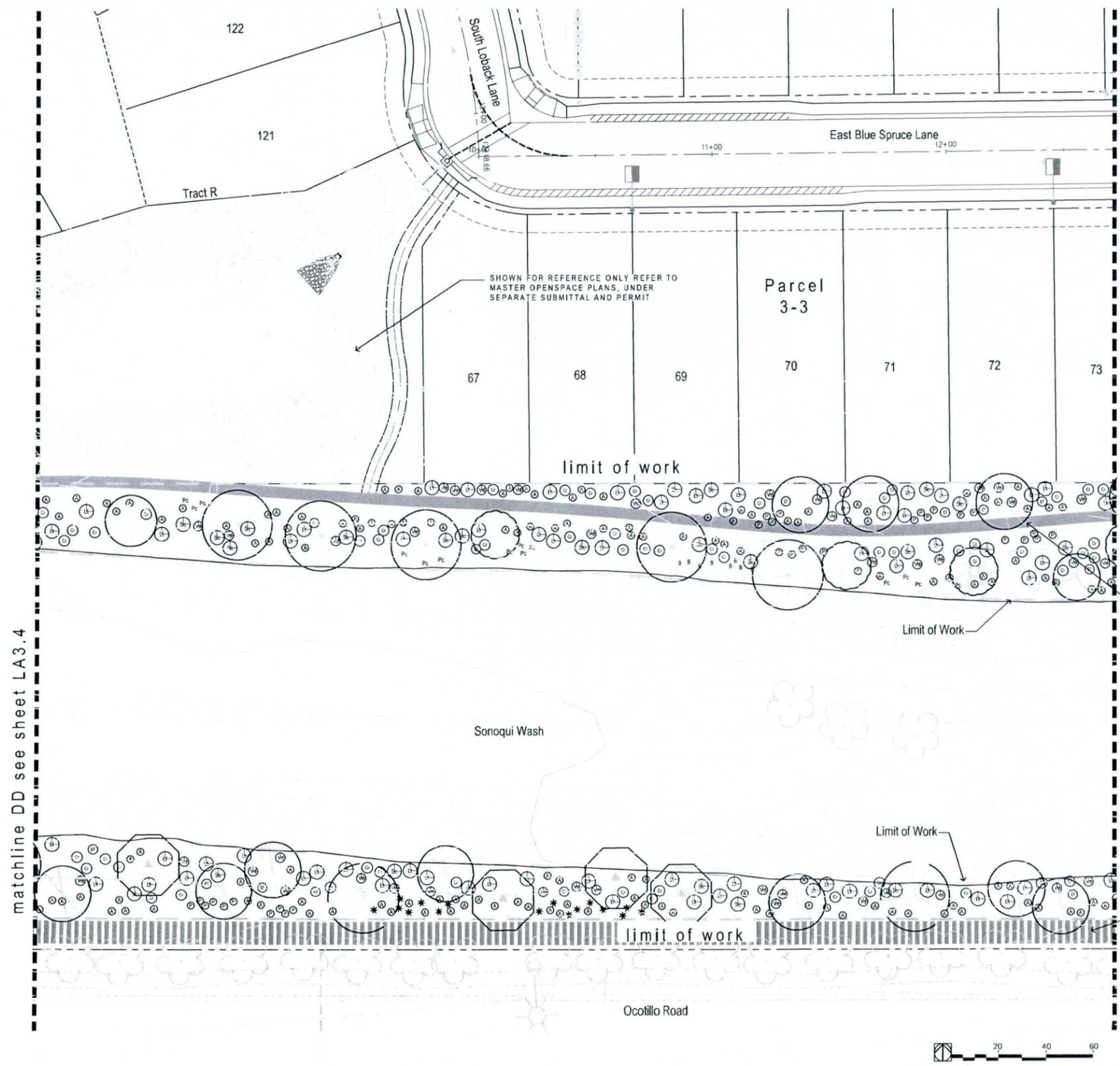
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sheet number

**LA3.4**

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**PLANT MATERIALS LEGEND**

Plant Name	Size	Qty.
<b>Trees</b>		
Acacia small	24" Box	27
Sweet Acacia	Multi	
Chihuahuan Ironwoods	24" Box	35
Desert Willow	Multi	
Cholla bebbianensis	24" Box	5
Cholla	-	
Lyallia microphylla	15 Gal	11
Desert Fern	-	
Parkinsonia florida	24" Box	26
Blue Palo Verde	Multi	
Parkinsonia microphylla	24" Box	7
Foothill Palo Verde	Multi	
Prosopis juliflora	15 Gal	23
Cholla mesquite	Multi	
Prosopis juliflora	24" Box	14
Vetiver Mesquite	Multi	
<b>Large Shrubs</b>		
Calliandra californica	5 gal.	291
Red Fairy Duster	5 gal.	415
Larrea tridentata	5 gal.	136
Oreocole	5 gal.	236
Silpholobus chihuensis (from MSN)	5 gal.	
Yucca	5 gal.	
Viguiera deltoidea	5 gal.	
Goldeneye	5 gal.	
<b>Medium Shrubs</b>		
Eriogonum fasciculatum	5 gal.	79
Elizabethtown	5 gal.	
Leucophyllum candidum 'Thunder Cloud'	5 gal.	14
Thunder Cloud Sage	5 gal.	
<b>Ground Covers</b>		
Artemisia tridentata	1 gal.	829
Tangle Leaf Bursage	1 gal.	185
Palafoxia cooperi	1 gal.	9
Paper Flower	1 gal.	192
Acacia robusta	1 gal.	29
Prosopis juliflora	1 gal.	30
Larrea monvillosa	1 gal.	
Purple Trailing Larrea	1 gal.	
Rosmarinus officinalis 'Prostratus'	1 gal.	
Trailing Rosemary	1 gal.	
Melampodium leucanthum	1 gal.	
Blackfoot Daisy	1 gal.	
<b>Accents</b>		
Daylily wheelset	5 gal.	136
Desert Spoon	5 gal.	
<b>Inerts</b>		
Decomposed Granite	2" deep, 1/2" Minus, 60% Brown/Reddish 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	157,752 SF
40" Native Granular Trail	40" Native Granular Trail	10,144 SF
Blackfoot Daisy	2" deep, 1/4" Minus, 40% detail sheet LA3.4	278 SF

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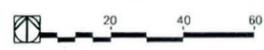
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48" WIDE NATIVE GRANULAR TRAIL TO BE FIELD STAKED. SOIL TO BE RAKE TO REMOVE ALL ROCK LARGER THEN 6" FROM TRAIL SURFACE

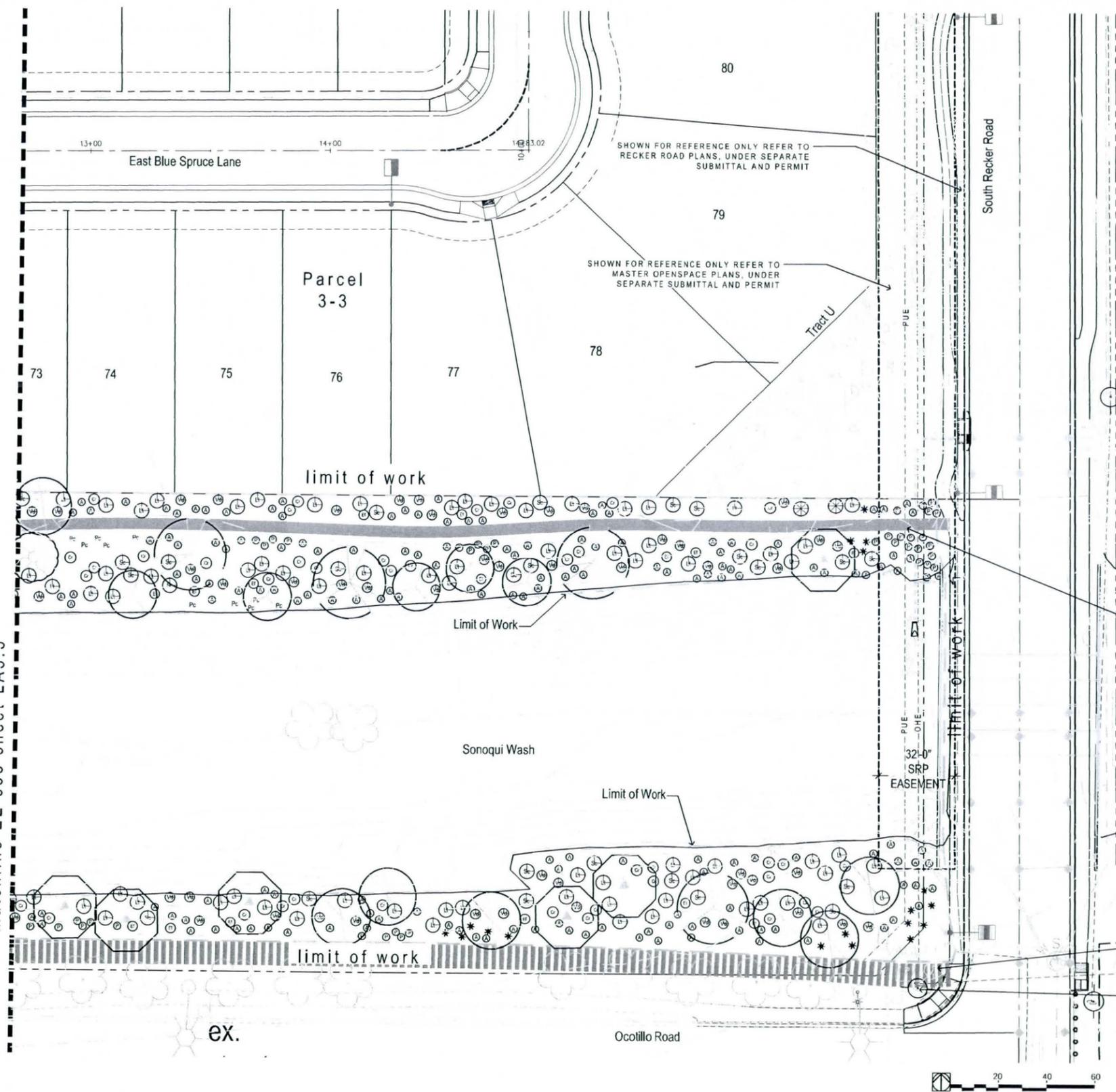
EXISTING GRANULAR TRAIL, SIDEWALK AND PLANT MATERIAL TO REMAIN UNDISTURBED ALONG THE OCOTILLO ROAD FRONTAGE.



CALL FOR MARKING DAYS BEFORE YOU DIG  
 (802) 263-1100  
 1-800-STAKE-IT  
 (COURTESY: MICHIGAN COUNTY)



matchline EE see sheet LA3.5



**PLANT MATERIALS LEGEND**

Plant Name	Size	Qty.
<b>Trees</b>		
Acacia small	24" Box	27
Sweet Acacia	Mult	
Cholla-Brownie	24" Box	35
Desert Willow	Mult	
Cholla bushier	24" Box	5
Cholla	-	
Lycium microphylla	15 Gal	11
Desert Fan	-	
Parsonsia florida	24" Box	26
Blue Palo Verde	Mult	
Parkinsonia microphylla	24" Box	7
Foothills Palo Verde	Mult	
Prosopis juliflora	15 Gal	23
Cholla Mesquite	Mult	
Prosopis velutina	24" Box	14
Vicki Mesquite	Mult	
<b>Large Shrubs</b>		
Calliandra californica	5 gal.	291
Red Fairy Duster	5 gal.	415
Larrea tridentata	5 gal.	
Croscote	5 gal.	136
Symphoricarpos chrysantha (from MSN)	5 gal.	
Juglans	5 gal.	236
Vigiera deltoidea	5 gal.	
Goldeneye	5 gal.	
<b>Medium Shrubs</b>		
Encelia farinosa	5 gal.	79
Bottlebrush	5 gal.	
Leucophyllum candidum 'Thunder Cloud'	5 gal.	14
Thunder Cloud Sage	5 gal.	
<b>Ground Covers</b>		
Ambrosia deltoidea	1 gal.	829
Tidingleaf Bursage	1 gal.	106
Palafoxia cooperi	1 gal.	9
Paper Flower	1 gal.	9
Acacia rotundifolia	1 gal.	192
Prosopis juliflora	1 gal.	29
Larrea monticola	1 gal.	30
Purple Trailing Lantana	1 gal.	
Rosemary officinalis 'Prostratus'	1 gal.	
Trailing Rosemary	1 gal.	
Melampodium leucanthum	1 gal.	
Blackfoot Daisy	1 gal.	
<b>Accents</b>		
Desert Spoon	5 gal.	136
<b>Inerts</b>		
Decomposed Granite	157 752 SF	
2" deep, 1/2" minus GLE Brown-dual 13, shw/ LA 3.1		
48" Native Granular Trail	10 144 SF	
Raked native granular soil		
Stabilized Granular Pad	278 SF	
2" deep, 1/4" minus, see detail sheet LA3.4		

48" WIDE NATIVE GRANULAR TRAIL TO BE FIELD STAKED. SOIL TO BE RAKE TO REMOVE ALL ROCK LARGER THEN 6" FROM TRAIL SURFACE

EXISTING GRANULAR TRAIL, SIDEWALK AND PLANT MATERIAL TO REMAIN UNDISTURBED ALONG THE OCOTILLO ROAD FRONTAGE.

EXISTING POWER POLE



CALL FOR PUBLISHING DATES BEFORE YOU GO  
1-800-STAKE-IT  
NATIVE PLANTING COMPANY

key map

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