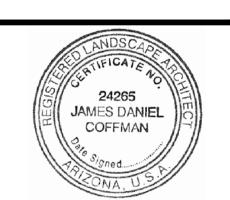
Enhancem

SC 3-22-2017 Drawn by



Cover Sheet

2233 E. Highland Ave. Phoenix, Arizona 85016

GENERAL NOTES

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF STANDARDS, SPECIFICATIONS, AND SEALED DRAWINGS, AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
- 2. INSPECT SUBGRADES PRIOR TO COMMENCING WORK TO CONFIRM SUBGRADE DEPTH AND GRADES.
- 3. ALL EQUIPMENT AND MATERIALS NOT SHOWN OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS BUT WHICH ARE REQUIRED TO
- COMPLETE THIS INSTALLATION, SHALL BE SUPPLIED BY THE CONTRACTOR AS PART OFT HIS CONTRACT WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY DEBRIS RESULTING FROM THE DEMOLITION AND

CONSTRUCTION. AT NO TIME SHALL ANY OF THIS MATERIAL OBSTRUCT THE NORMAL OPERATION OF ANY ADJOINING STREET.

- 5. CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL EXISTING AND PROPOSED UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO STARTING ANY WORK. REPORT IMMEDIATELY TO THE LANDSCAPE ARCHITECT WHERE PLANT MATERIAL SHALL BE RELOCATED TO AVOID THE UTILITIES. DAMAGE BY THE CONTRACTOR TO ANY WORK SHALL BE REPLACED AND/OR REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL THE WORK INDICATED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAREFUL SITE INSPECTION, DETAILED REVIEW OF THE PLANS, AND COORDINATION WITH OTHER CONTRACTORS ON-SITE PRIOR TO ANY INSTALLATION. ANY DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- 7. ALL AREAS DISTURBED DURING CONSTRUCTION TO BE FINE GRADED. ADJACENT UNDISTURBED AREAS DAMAGED OR DISTURBED TO BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 8. FENCES AND WALLS TO BE PROTECTED IN PLACE, EXCEPT WHERE THE PLANS CALL FOR MODIFYING OR REMOVING SECTIONS OF FENCE
- 9. REMOVE AND DISCARD ALL PLANTS AS NOTED ON DRAWINGS.
- 10. THE JOB SITE, AT THE COMPLETION, SHALL BE CLEANED OF ANY DEBRIS OR SPOIL RESULTING FROM THE CONSTRUCTION. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENTS, AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT, DEBRIS AND MARKINGS.
- 11. ACCESS SHALL BE MAINTAINED TO A MINIMUM OF ONE ENTRANCE PER EACH UNIT THROUGHOUT THE CONSTRUCTION PERIOD.
- 12. TRENCHES OR OTHER FILLED EXCAVATIONS SHALL BE COMPACTED PRIOR TO HARDSCAPE AND LANDSCAPE INSTALLATION.
- 13. THE CONTRACTOR WILL HAVE ACCESS TO THE SITE PRIOR TO THE PLACEMENT OF AGGREGATE BASE, CURING, OR PAVING TO PERMIT THE INSTALLATION OF IRRIGATION SLEEVES AND PIPES.
- 14. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-273-1100) 48 HOURS PRIOR TO ANY SUBSURFACE EXCAVATION.
- 15. THERE SHALL BE A 3'-0" PLANTING CLEARANCE AROUND ALL FIRE HYDRANTS.
- 16. CONTRACTOR SHALL ENSURE SCREENING OF BACKFLOW WITH PLANT MATERIAL. COORDINATE WITH OWNER'S REP. ON PLANT PLACEMENT PRIOR TO INSTALLATION.
- 17. NEW GATES AND FENCES TO BE INSTALLED BY OTHERS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GATE AND FENCE

MAINTENANCE AND GUARANTEE PERIOD

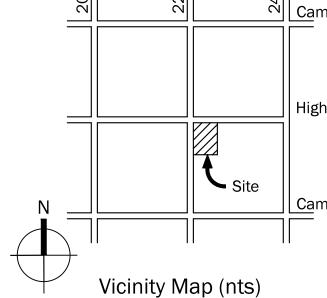
- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR A SIX MONTHS MAINTENANCE PERIOD. MAINTENANCE TIME PERIOD TO OCCUR CONCURRENT
- 2. CONTRACTOR SHALL GUARANTEE ALL NEW PLANTS, EXCEPT CACTI, FOR A PERIOD OF SIX MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, AGAINST DEFECTS INCLUDING UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS OR UNUSUAL PHENOMENA OR INCIDENTS BEYOND THE CONTRACTOR'S CONTROL ONE REPLACEMENT WILL BE REQUIRED DURING THE GROWTH SEASON FOLLOWING THE END OF THE GUARANTEE PERIOD EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO CONTRACTOR'S FAILURE TO COMPLY
- 3. SIZE OF REPLACEMENTS FOR NEW PLANTS SHALL BE SAME SIZE AS ORIGINAL.
- REPLACEMENT PLANTS SHALL BE A ONE-TIME REPLACEMENT AND HAVE NO GUARANTEE.
- 5. ALL SALVAGED AND RELOCATED CACTI SHALL HAVE NO GUARANTEE.
- 6. THE CONTRACTOR SHALL WATER AND MAINTAIN ALL SALVAGE AND NEW PLANTS DURING THE GUARANTEE PERIOD AT INTERVALS NECESSARY

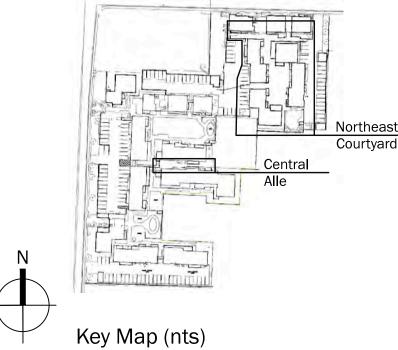
SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE

- THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 48 HOURS IN ADVANCE WHEN THE CONTRACTOR DETERMINES THE SITE IS SUBSTANTIALLY COMPLETE AND READY FOR A PUNCH LIST WALK-THROUGH BY THE LANDSCAPE ARCHITECT.
- 2. THE LANDSCAPE ARCHITECT SHALL PREPARE A DETAILED PUNCH LIST BASED UPON ITEMS IDENTIFIED IN THE WALK-THROUGH AND PRESENT
- 3. UPON COMPLETION OF THE PUNCH LIST, THE CONTRACTOR SHALL PROVIDE AT LEAST 24 HOURS NOTICE FOR THE LANDSCAPE ARCHITECT TO CONDUCT A 'FINAL WALK-THROUGH' TO VERIFY COMPLETION OF THE PUNCH LIST ITEMS.
- 4. UPON COMPLETION OF THE PUNCH LIST, THE LANDSCAPE ARCHITECT SHALL PROVIDE FINAL ACCEPTANCE.
- 5. WARRANTY AND MAINTENANCE PERIOD BEGINS UPON FINAL ACCEPTANCE.

NOTES TO BIDDERS REGARDING ADD ALTERNATES

- 1. THERE ARE TWO ADD ALTERNATES SHOWN AND DESCRIBED BELOW.
- 2. ADD ALTERNATE #1: THE POOL AREA IN THE SOUTHEAST CORNER OF THE NORTHEAST COURTYARD. THE LIMITS OF CONSTRUCTION (L O C) IS LABELED.
- a. BASE BID IS NOT TO INCLUDE ANY WORK IN THIS AREA.
- ADDITIVE ALTERNATE BID TO INCLUDE ALL WORK IN THIS AREA.
- IT IS ANTICIPATED THAT IF THIS ALTERNATE IS CHOSEN, SOIL REMOVED FROM THE CENTRAL COURTYARD AREA CAN BE USED TO FILL IN THE POOL, THEREBY LESSENING HAUL AWAY COSTS.
- IF THIS ALTERNATE IS NOT CHOSEN, THE EXISTING IRRIGATION SYSTEM TO THIS AREA SHOULD BE RECONNECTED TO THE NEW IRRIGATION SYSTEM AS NEEDED.
- IF THIS ALTERNATE IS NOT CHOSEN, THE EXISTING IRRIGATION SYSTEM TO THIS AREA SHOULD BE RECONNECTED TO THE NEW
- 3. ADD ALTERNATE #2: STEP OR GATE CONSTRUCTION TO PRIVATE COURTYARD IN SOUTHEAST CORNER OF THE NORTHEAST COURTYARD.
- a. BASE BID TO INCLUDE GATE RELOCATION.
- GATE RELOCATION WILL ONLY OCCUR WITH CONCURRENCE BY THE OWNER.
- IF OWNER DOES NOT AGREE TO GATE RELOCATION, STAIRS FROM THE EXISTING GATE TO THE BOTTOM OF THE RAMP LANDING ARE REQUIRED TO MAINTAIN ACCESS TO THE EXISTING GATE. THIS WORK IS THE ADD ALTERNATE.
- d. HOA REPRESENTATIVE AND LANDSCAPE ARCHITECT TO CONFIRM DESIRE OF THE OWNER.
- IF THIS ALTERNATE IS NOT CHOSEN, THE EXISTING IRRIGATION SYSTEM TO THIS AREA SHOULD BE RECONNECTED TO THE NEW





Sheet Index

- 1 D1 Demolition Plan
- 2 CO1 Cogo Plan
- 3 CO2 Cogo Plan
- 4 CO3 Cogo Plan
- 5 DO1 Hardscape Details
- 6 DO2 Hardscape Details
- Landscape Plan
- Landscape Details & Notes
- Low Voltage Lighting Plan
- Irrigation Plan
- Irrigation Details
- Irrigation Details

Owner/ Developers

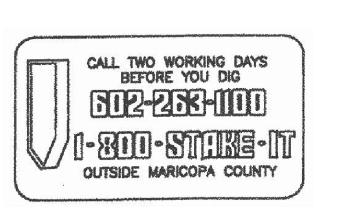
Helena Whitney, Biltmore Gardens HOA Representative 2233 E. Highland Ave, Phoenix, Az 85016 (602) 284-0185

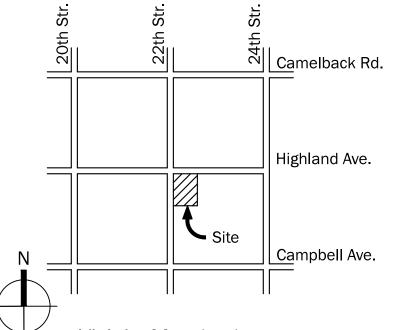
helenawhitney@gmail.com

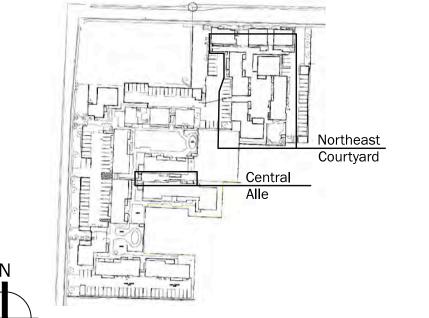
Landscape Architect

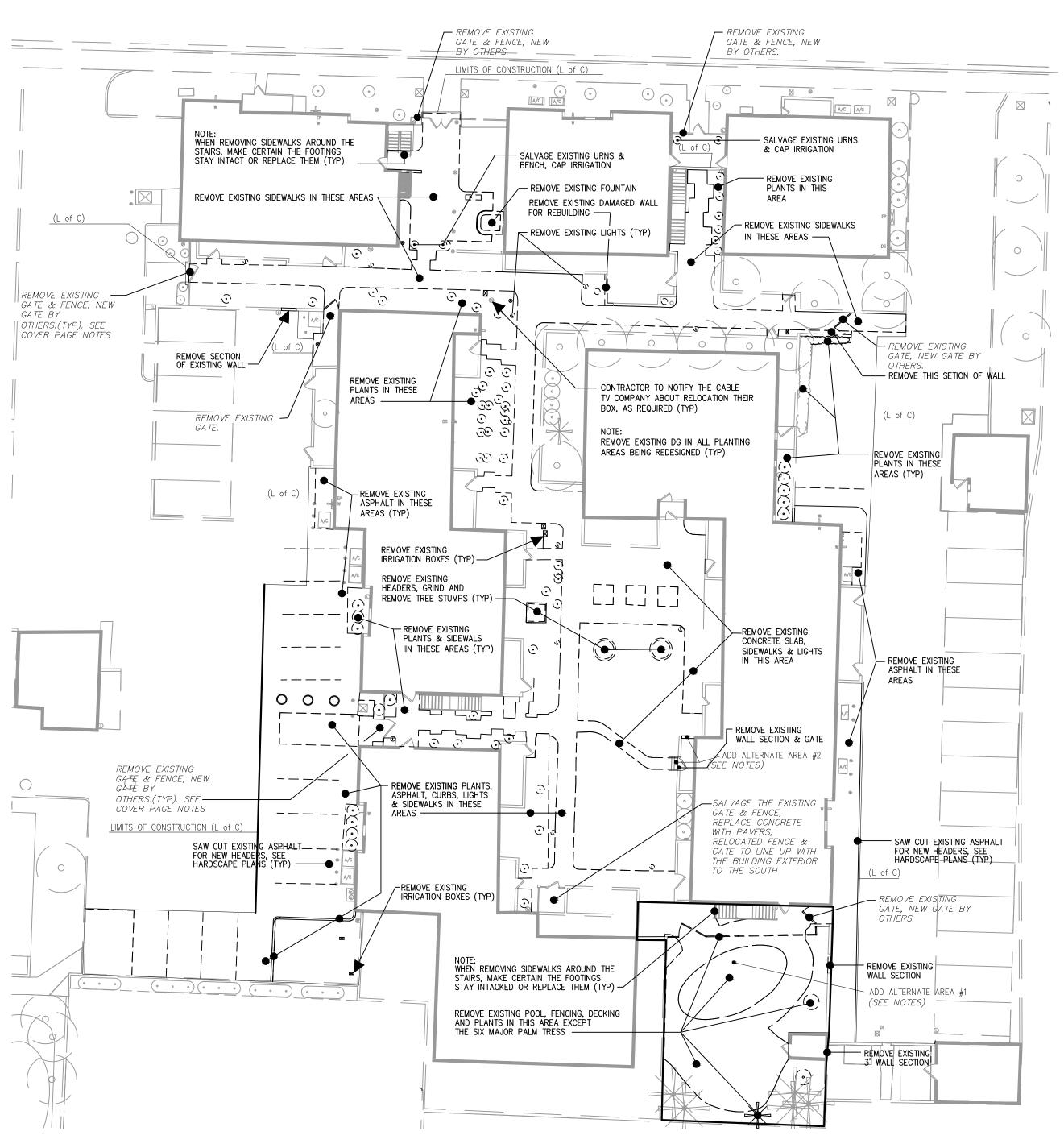
James D. Coffman, Coffman Studio PLLC 2126 S. La Rosa, Tempe, Az 85282 (480) 478-9585

100% Plans shall be kept on the job site at all times during the course of construction.

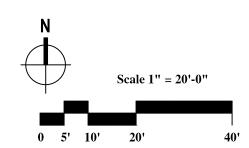


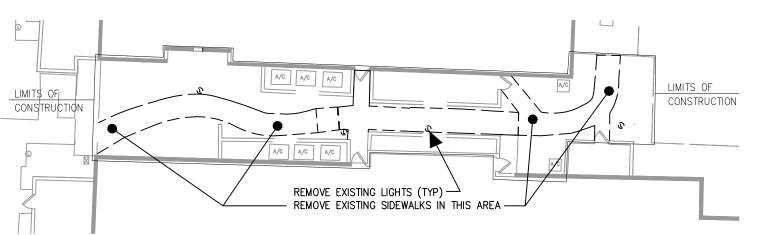






Northeast Courtyard





Central Alle

NOTE

- 1. ADD ALTERNATE #1: THE POOL AREA IN THE SOUTHEAST CORNER OF THE NORTHEAST COURTYARD. THE LIMITS OF CONSTRUCTION (L O C) IS
- a. BASE BID IS NOT TO INCLUDE ANY WORK IN THIS AREA.
- b. ADDITIVE ALTERNATE BID TO INCLUDE ALL WORK IN THIS AREA.
- c. IT IS ANTICIPATED THAT IF THIS ALTERNATE IS CHOSEN, SOIL REMOVED FROM THE CENTRAL COURTYARD AREA CAN BE USED TO FILL IN THE POOL, THEREBY LESSENING HAUL AWAY COSTS.
- d. IF THIS ALTERNATE IS NOT CHOSEN, THE EXISTING IRRIGATION SYSTEM TO THIS AREA SHOULD BE RECONNECTED TO THE NEW IRRIGATION SYSTEM AS NEEDED.
- 2. ADD ALTERNATE #2: STEP OR GATE CONSTRUCTION TO PRIVATE COURTYARD IN SOUTHEAST CORNER OF THE NORTHEAST COURTYARD.
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- 3. NEW GATES AND FENCES TO BE INSTALLED BY OTHERS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GATE AND FENCE CONTRACTOR TO ALIGN THEIR DEMO AND CONSTRUCTION SCHEDULES SO THAT WORK IS COMPLETED IN THE APPROPRIATE ORDER AND IN AN EXPEDIENT TIME FRAME.



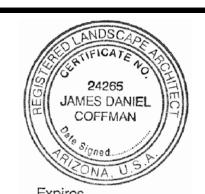
2126 South La Rosa Drive Tempe, Arizona 85282 c 602.790.8311 www.coffmanstudio.com

100% DESIGN

 JC
 SC

 Design
 3-22-2017

 Project No.
 Drawn by

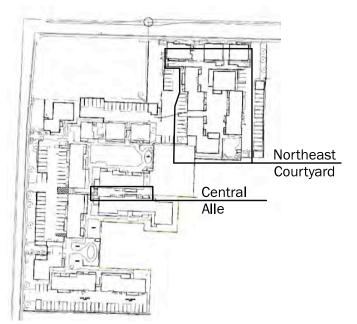


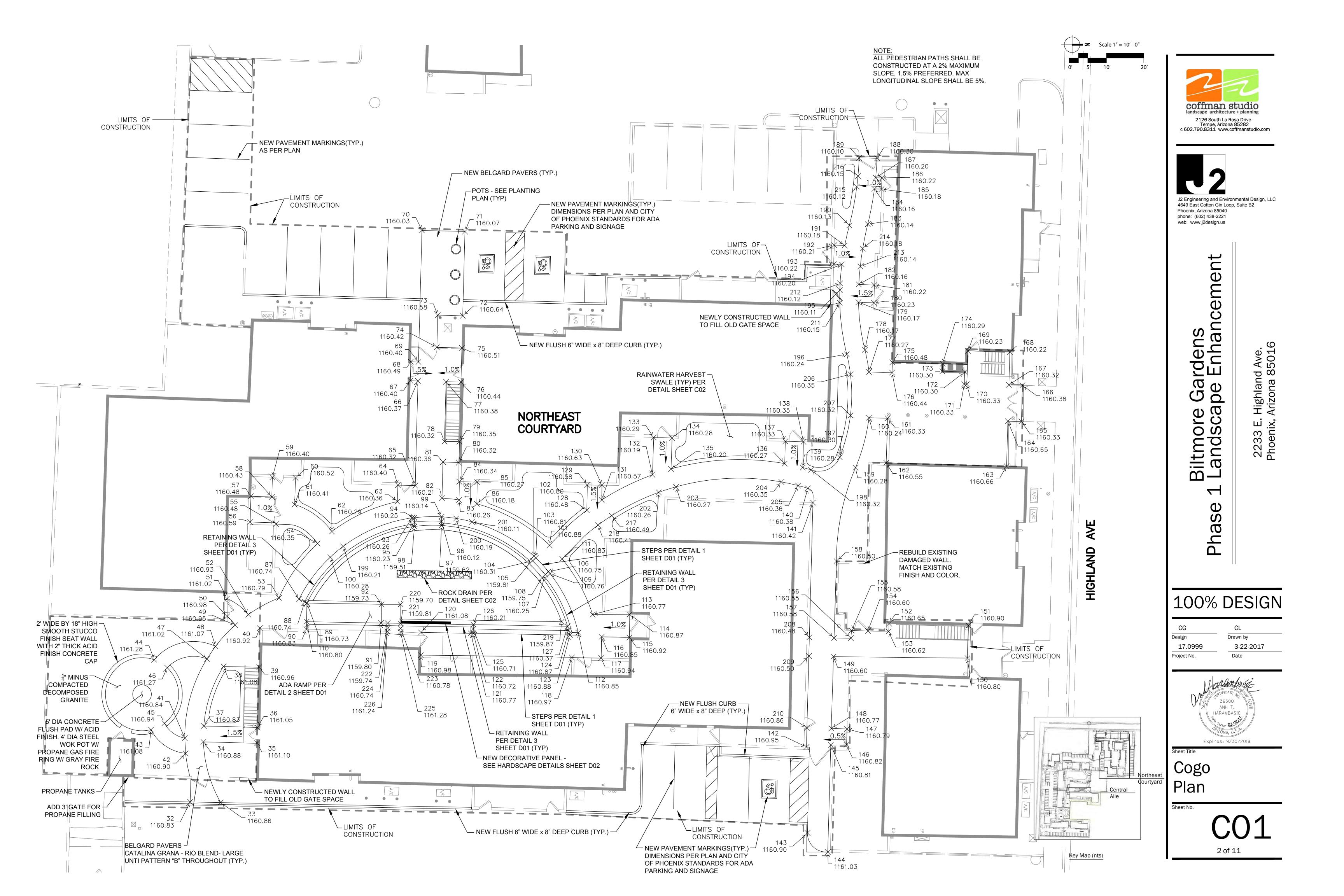
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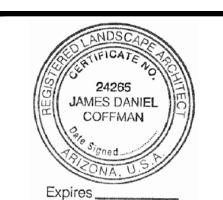
Demolition Plan

Sheet N

D11 of 12

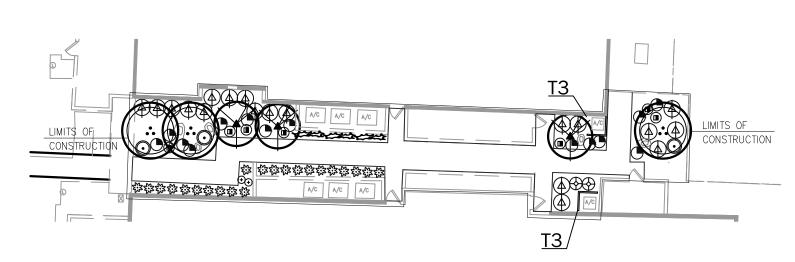






Landscape Plan

7 of 12



Central Alle

PLANT LEGEND

TREES		SIZE	QTY
— ACACIA ANEURA	MULGA TREE	24" Box	8
ACACIA WILLARDIANA	PALO BLANCO	24" Box	29
— CERCIDIUM X 'DESERT MUSEUM'	'DESERT MUSEUM' PALO VERDE	24" Box	4
EUCALYPTUS PAPUANA	GHOST GUM TREE	24" Box	3
PISTACIA CHINENSIS 'SARAH'S RADIAN	CE' CHINESE PISTACHE	36" Box	4
PROSOPIS 'SEEDLESS HYBRID AZT'	THORNLESS MESQUITE	24" Box	1
CLIDLIDG / ACCENTS / A	INIEC		

		0		
	AGAVE PARRYI	PARRY'S AGAVE	3 Gal.	1
₩ —	– ALOE × 'BLUE ELF'	BLUE ELF ALOE	1 Gal.	2
•	ALOE VERA	MEDICINAL ALOE	1 Gal.	7
24/2	BOUGAINVILLEA 'SP'	BARBARA KARST	5 Gal.	1
\oplus	BUDDLEIA MARRUBIFOLIA	WOOLLY BUTTERFLY BUS	H5 Gal.	1
	DODONAEA VISCOSA	HOP BUSH	5 Gal.	9
\otimes	EUPHORBIA ANTISYPHILITICA	CANDELILLA	1 Gal.	2
A	EUPHORBIA RESINIFERA	MOROCCAN MOUNDS	3 Gal.	4
\oplus	HESPERALOE FUNIFERA	GIANT HESPERALOE	5 Gal.	2
****	HARDENBERGIA VIOLACEA	LILAC VINE	5 Gal.	7
\odot	HYMENOXYS ACAULIS	ANGELITA DAISY	1 Gal.	1
(4)	JUSTICIA SPICIGERA	MEXICAN HONEYSUCKLE	5 Gal.	1
\Diamond	LANTANA CAMARA 'GOLD MOUND'	'GOLD MOUND' LANTANA	1 Gal.	5
\oplus	PACHYCEREUS MARGINATUS	FENCE POST CACTUS	5 Gal.	6
0	PEDILANTHUS MACROCARPUS	LADY SLIPPER	5 Gal.	3
B	PHOENIX ROEBELENII	PYGMY DATE PALM	5 Gal.	1
*	RUELLIA BRITTONIANA 'KATIE' (PURPLE)	KATIE RUELLIA	1 Gal.	5
ℿ	YUCCA RIGIDA	BLUE YUCCA	15 Gal.	3

- ST SYNTHETIC TURF TBD DECOMPOSED GRANITE TO BE: 1" SCREENED, TABLE MESA BROWN, TYP. IN ALL PLANTING BEDS EXCEPT AS NOTED
- RR RIP RAP: 3" TO 6", TABLE MESA BROWN, WITH 1/8" THICK x 4" HT. RUSTICATED STEEL EDGING

	SITE ELEMENTS	
A	28" H. X 28" W. CERAMIC POTS (WITH MOROCCAN MOUNDS, SEE ABOVE)	4
B	28" H. X 28" W. CERAMIC POTS (WITH PIGMY DATE PALM, SEE ABOVE)	1
$\overline{\bigcirc}$	48" H. X 36" W. CERAMIC POTS (WITH DECORATIVE METAL ELEMENT)	5
	28" H. X 28" W. CERAMIC POTS (WITH GIANT HESPERALOE, SEE ABOVE)	1
	SURFACE SELECT BOUDERS, EQ. MIX 2'X2'X3' & 1.5'X2'X2'	29
T1	10'W. X 4H. DECORATIVE METAL PANELS (BY SUB-CONTRACTOR)	6
T2	16'W. X 16'H. DECORATIVE METAL PANELS (BY SUB-CONTRACTOR)	1
Т3	"L" SHAPED 5'W. 5'L. X 4'H. DECORATIVE METAL PANELS (BY SUB-CONTR.)	2
	LandaganaForma, Tayyaa Sayara Banah 27" y 70" y 70" PENCH	1

		PLANT LEGEND			
		TREES		SIZE	QTY
\nearrow		— ACACIA ANEURA	MULGA TREE	24" Box	8
(— ACACIA WILLARDIANA	PALO BLANCO	24" Box	29
		— CERCIDIUM X 'DESERT MUSEUM'	'DESERT MUSEUM' PALO VERDE	24" Box	4
	<u>(.)</u> —	— EUCALYPTUS PAPUANA	GHOST GUM TREE	24" Box	3
)		— PISTACIA CHINENSIS 'SARAH'S RADIANCE'	CHINESE PISTACHE	36" Box	4
	(·) -	— PROSOPIS 'SEEDLESS HYBRID AZT'	THORNLESS MESQUITE	24" Box	1
	Was -				

SHRUBS / ACCENTS / VINES

	SHRUBS/ ACCENTS/	VIIVES			
	AGAVE PARRYI	PARRY'S AGAVE	3	Gal.	18
₩ —	- ALOE × 'BLUE ELF'	BLUE ELF ALOE	1	Gal.	29
•	ALOE VERA	MEDICINAL ALOE	1	Gal.	73
	BOUGAINVILLEA 'SP'	BARBARA KARST	5	Gal.	1
\oplus	BUDDLEIA MARRUBIFOLIA	WOOLLY BUTTERFLY BUSH	15	Gal.	1
	DODONAEA VISCOSA	HOP BUSH	5	Gal.	9
↔	EUPHORBIA ANTISYPHILITICA	CANDELILLA	1	Gal.	29
A	EUPHORBIA RESINIFERA	MOROCCAN MOUNDS	3	Gal.	4
\oplus	HESPERALOE FUNIFERA	GIANT HESPERALOE	5	Gal.	2
*****	HARDENBERGIA VIOLACEA	LILAC VINE	5	Gal.	7
•	HYMENOXYS ACAULIS	ANGELITA DAISY	1	Gal.	10
(4)	JUSTICIA SPICIGERA	MEXICAN HONEYSUCKLE	5	Gal.	12
\Diamond	LANTANA CAMARA 'GOLD MOUND'	'GOLD MOUND' LANTANA	1	Gal.	57
	PACHYCEREUS MARGINATUS	FENCE POST CACTUS	5	Gal.	6
0	PEDILANTHUS MACROCARPUS	LADY SLIPPER	5	Gal.	30
B	PHOENIX ROEBELENII	PYGMY DATE PALM	5	Gal.	1
*	RUELLIA BRITTONIANA 'KATIE' (PURPL	LE) KATIE RUELLIA	1	Gal.	56
✿	YUCCA RIGIDA	BLUE YUCCA	15	Gal.	3

GROUND COVER

SITE ELEMENTS	
A 28" H. X 28" W. CERAMIC POTS (WITH MOROCCAN MOUNDS, SEE ABOVE)	4
B 28" H. X 28" W. CERAMIC POTS (WITH PIGMY DATE PALM, SEE ABOVE)	1
6 48" H. X 36" W. CERAMIC POTS (WITH DECORATIVE METAL ELEMENT)	5
D 28" H. X 28" W. CERAMIC POTS (WITH GIANT HESPERALOE, SEE ABOVE)	1
SURFACE SELECT BOUDERS, EQ. MIX 2'X2'X3' & 1.5'X2'X2'	29
T1 10'W. X 4H. DECORATIVE METAL PANELS (BY SUB-CONTRACTOR)	6
T2 16'W. X 16'H. DECORATIVE METAL PANELS (BY SUB-CONTRACTOR)	1
"L" SHAPED 5'W. 5'L. X 4'H. DECORATIVE METAL PANELS (BY SUB-CONTR	.) 2

LandscapeForms, Towne Square Bench 27" x 70" x 32" BENCH

 $-\frac{1}{4}$ " COMPACTED, DECOMPOSED GRANITE

TABLE MESA BROWN

HIGHLAND AVE.

LIMITS OF CONSTRUCTION (L of C)

Northeast Courtyard

LIMITS OF CONSTRUCTION (L of C)

Key Map (nts)

PLANT LEGEND - ADD ALTERNATE #1

PALO BLANCO

'DESERT MUSEUM' PALO VERDE MED. FAN PALM

MEDICINAL ALOE

ANGELITA DAISY

LADY SLIPPER

BLUE YUCCA

DECOMPOSED GRANITE TO BE: 1" SCREENED, TABLE MESA BROWN, TYP. IN ALL

CANDELILLA

WOOLLY BUTERFLY BUSH 5 Gal.

MEXICAN HONEYSUCKLE 5 Gal. 12

FENCE POST CACTUS 5 Gal. 1

TREES

— ACACIA WILLARDIANA

- CHAMAREROPS HUMILIS

BUDDLEIA MARRUBIFOLIA

♦ EUPHORBIA ANTISYPHILITICA

• PEDILANTHUS MACROCARPUS

GROUND COVER

SITE ELEMENTS

PLANTING BEDS EXCEPT AS NOTED

SURFACE SELECT BOUDERS, EQ. MIX 2'X2'X3' & 1.5'X2'X2'

→ HYMENOXYS ACAULIS

JUSTICIA SPICIGERA

♦ YUCCA RIGIDA

— CERCIDIUM X 'DESERT MUSEUM'

SHRUBS/ ACCENTS/ VINES

SIZE QTY

24" Box 2

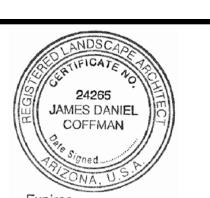
24" Box 4 24" Box 2

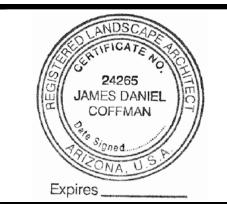
1 Gal. 17

15 Gal. 1

100% DESIGN

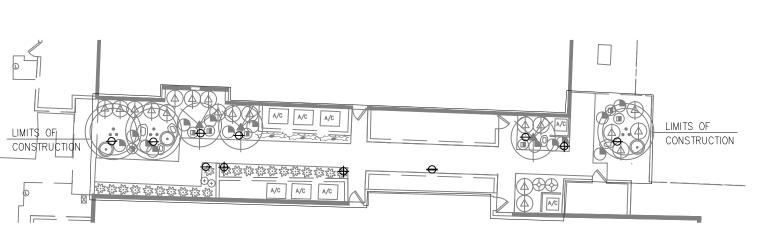
JC	SC
Design	Drawn by
.00716	3-22-2017
Project No.	Date





Low Voltange Lighting Plan

9 of 12



Central Alle

40 — Tree uplight, FX RS—4WLED—Bronze Metallic

2 - In-step lights, Focus SL-43LG-LEDS

LIGHTING NOTES

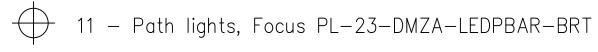
ADD ALTERNATE AREA #2
(SEE NOTES)

- SIZE TRANSFORMERS FOR 30 WATTS PER FIXTURE IN ORDER TO PROVIDE FUTURE FLEXIBILITY TO EITHER ADD WATTAGE TO FIXTURES OR TO ADD ADDITIONAL FIXTURES USING THE SAME TRANSFORMER.
- TRANSFORMER LOCATIONS TO BE DETERMINED BY CONTRACTOR BASED UPON AVAILABLE ELECTRICITY, POTENTIAL FOR SECURITY AND OUT OF DIRECT SUN. SITE(S) TO BE APPROVED
- CONTRACTOR TO PROVIDE CUT SHEETS FOR PREFERRED TRANSFORMER FOR APPROVAL
- BY THE LANDSCAPE ARCHITECT.
- 4. CONCEAL ALL LOW VOLTAGE WIRING.
- CONCEAL ENTIRE SPIKE BASE OF LIGHTS.
- LANDSCAPE ARCHITECT TO APPROVE LOCATION OF ALL LIGHTS PRIOR TO FINAL
- INSTALLATION.

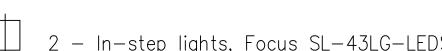
LIGHTING SCHEDULE:

8 - Wall wash uplights, Focus DL-40-LEDP812V-BET







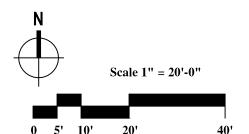


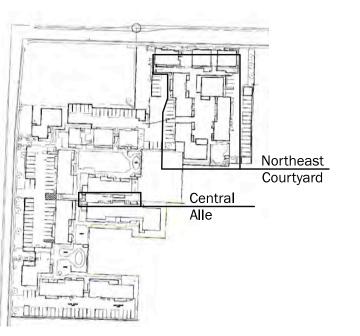


Northeast Courtyard

LIMITS OF CONSTRUCTION (L of C)

(L of C)



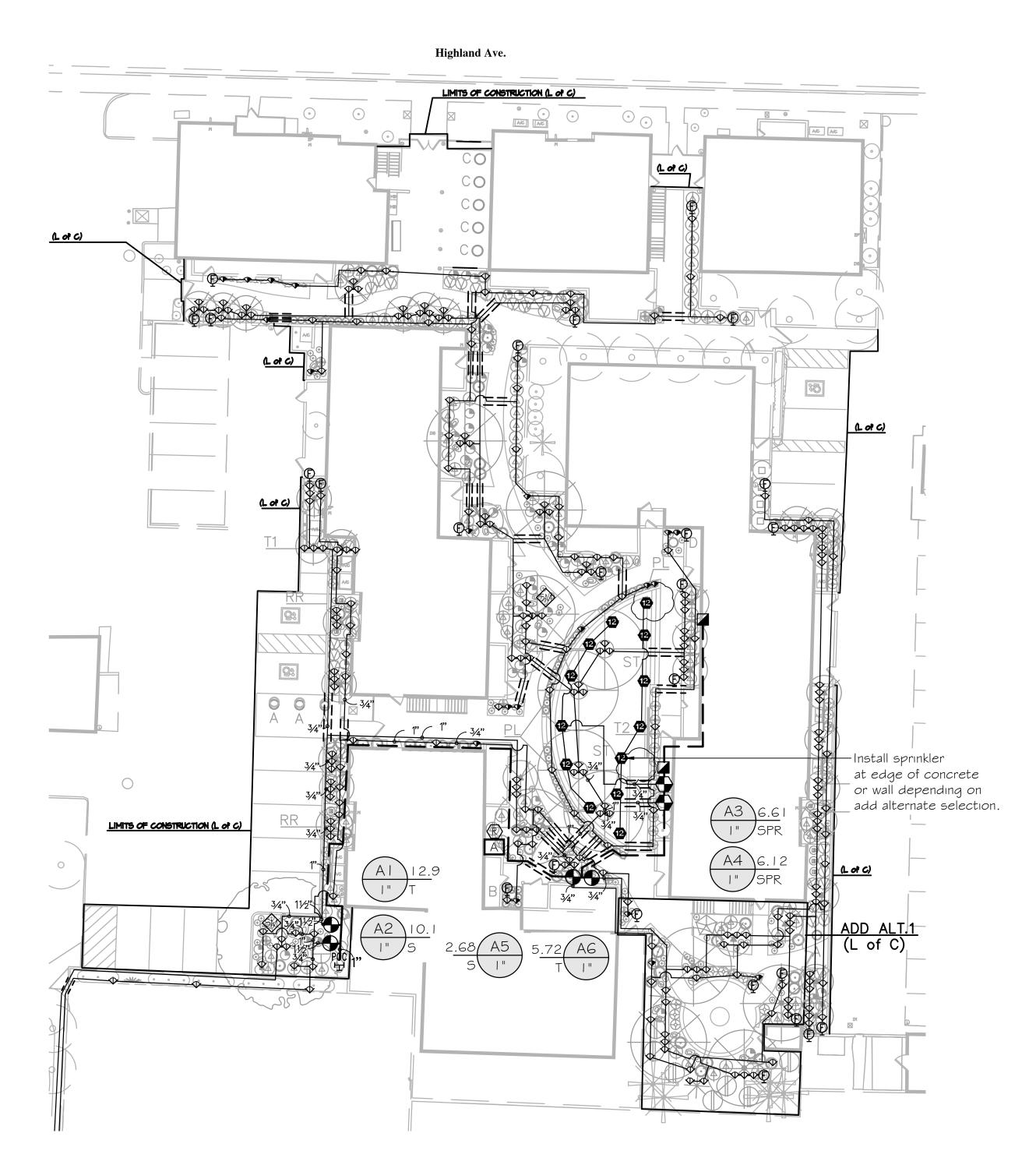


Key Map (nts)

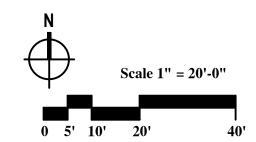
LIGHTING SCHEDULE: ADD ALTERNATE

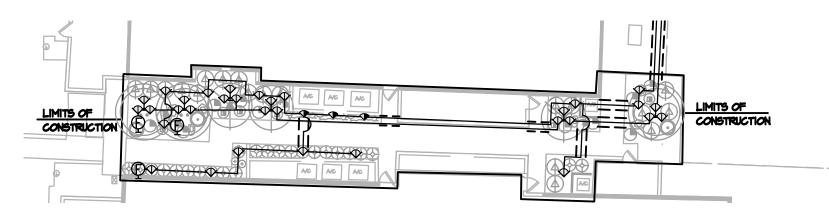
7 - Tree uplight, FX RS-4WLED-Bronze Metallic

○ 3 - In-wall light (Seat/retaining wall), Focus SL-30-LED-WBR



Northeast Courtyard





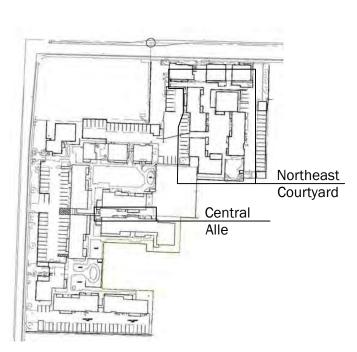
Central Alle

IRRIGATION SCHEDULE
HAACH CONEDUCE

SYMBOL	MANUFACTURER/MODEL/DESCRIP	TION	<u>QTY</u>	<u>PSI</u>
3 O8HE-VAN 12 12HE-VAN 0 10HE-VAN 15 15HE-VAN	Rain Bird 1804 ADJ Turf Spray 4.0" Pop-Up Sprinkler with Wiper Seal. 1/2" NPT Female Threa		13	30
SYMBOL	MANUFACTURER/MODEL/DESCRIP	TION	QTY	
©	Rain Bird MDCFCAP Dripline Flush Valve cap in MDCF7 adapter.	5FPT 3/4" FPT	28	
◇ ◆ ◆ 0.5 1.0 2.0	Rain Bird XBT-6 Six multi-outlet dr Six-Outlet, Pressure Compensation Flow rates of 0.5gph=blue, 1.0gp 2.0gph=red, at each emitter outle 1/2" FPT Inlet x Barb Outlet.	g, Drip Emitter. oh=black, and	281	
♦ ♦ 1.0 2.0	Rain Bird XBT-PC Single Outlet Em Single Outlet, Pressure Compensa Emitters. Flow rates of 1.0gph=12.0gph=red. Comes with a 1/2" outlet.	iting Drip olack, and	23	
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIP	TION	QTY	
•	Rain Bird PEB - Drip Valve Assembl", I-1/2", 2" Plastic Industrial Valve Operating Capability, Globe Config. * I"x I" Wye Filter \$ 40 psi regulate. *Sch 80 PVC Ball Valve - Same siz. *Rain Bird Large Rectangular Valve No valves installed in turf.	ves. Low Flow guration. or ze as Drip Valve	4	
•	Rain Bird PEB Valve I", I-1/2", 2" Plastic Industrial Valve Operating Capability, Globe Confid *Rain Bird Large Rectangular Valve No valves installed in turf.	juration.	2	
	Rain Bird 44-LRC I" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Ste Locking Thermoplastic Rubber Cov Body.	el Spring,	2	
A	Rain Bird ESP8LXMEF-LXMM with (20 Station Capable Commercial Community on a Powder-Coated Me Sensing and Water Management C	ontroller. tal Cabinet. Flow	I	
R	Rain Bird RSD-CEx Rain Sensing Device, conduit mour threaded adapter, extension wire.		1	
€ M>	Rain Bird SMRT-Y Soil Moisture Sensor Kit. 24VAC Operating temperature: -4 degree degrees F. Survival temperature: -185 degrees F. UL, CUL, C-TICK	es F to 158 40 degrees F to	2	
POC 남	Point of Connection 2" Tie into existing 2" PVC Mainline		1	
	Irrigation Lateral Line: PVC Class 2 PVC Class 200 irrigation pipe	200 SDR 21	3,335 l.f.	
	Irrigation Mainline: PVC Schedule 4 PVC Schedule 40 irrigation pipe.	40	269.3 l.f.	
======	Pipe Sleeve: PVC Schedule 40 Size twice the diameter of pipe to	be sleeved.	269.9 l.f.	
	Valve Number		YPE: S=SHRUB,	
# • # •	Valve Flow	SP=SPR	INKLER,	
#"• # -	Valve Type	P=PALM	•	
<u> </u>	————Valve Sıze	ABD=AE	SANDON	

CRITICAL ANALYSIS

Generated:	2017-03-15 02:14
P.O.C. NUMBER: 01 Water Source Information:	Tie into existing 2" PVC Mainlir
FLOW AVAILABLE Point of Connection Size: Flow Available:	2" 78.62 gpm
PRESSURE AVAILABLE Static Pressure at POC: Pressure Available:	55.00 psi 55.00 psi
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	12.87 gpm 78.62 gpm 65.75 gpm
Critical Station: Design Pressure: Friction Loss: Fittings Loss: Elevation Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings: Loss for Main Line: Loss for POC to Valve Elevation: Loss for Backflow: Critical Station Pressure at POC: Pressure Available: Residual Pressure Available:	AI 30.00 psi 5.41 psi 0.54 psi 0.00 psi 2.12 psi 38.06 psi 0.06 psi 0.55 psi 0.00 psi 0.00 psi 38.67 psi 55.00 psi 16.33 psi

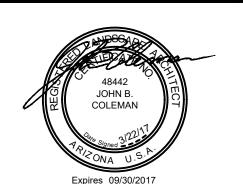


Key Map (nts)



Gardens pe Enhancement Biltmore Landscal \vdash

.00716 3-22-2017 Project No. 100% Design



Irrigation Plan

Sheet No.

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