

PANELBOARD SCHEDULE												P4			
VOLTAGE:		120/208		POLES:		42		MOUNTING:		SURFACE		ENCLOSURE:		NEMA 1	
PHASE / WIRE:		3 / 4		KAIC AMPS (RMS):		22		LOCATION:		MECH G100		MANUFACTURER:		SQUARE D	
AMPS:		225		MAIN BREAKER / MLO:		MLO		FED FROM:		MDP		MODEL:		NQ	
CIRC. NO.	EQUIPMENT SERVED	C/B AMPS	C/B POLES	C/B ACC.	LOAD (VA)	PHASE LOADS (VA)			LOAD (VA)	C/B ACC.	C/B POLES	C/B AMPS	EQUIPMENT SERVED	CIRC. NO.	
						A	B	C							
1	MECHANICAL G100/ OUTSIDE RECEPTACLES	20	1	-	540	1716			1176	HACR	1	20	SUMP PUMP SP1	2	
3	HEAT PUMP HP1	50	3	HACR	4500		5300		800	-	1	20	MECH LIGHTS	4	
5	"				4500		5900		1400	HACR	1	20	ENERGY RECOVERY UNIT ERU1	6	
7	"				4500				1400	HACR	1	20	ENERGY RECOVERY UNIT ERU2	8	
9	HEAT PUMP HP2A	30	2	HACR	1770		2270		500	-	1	20	TELECOMM EQUIPMENT RECEPTACLE	10	
11	"				1770				3865	HACR	3	60	CONDENSER WATER PUMP CP1	12	
13	HEAT PUMP HP2B	20	2	HACR	1300	5165			3865	-	1	20	"	14	
15	"				1300		5165		3865	-	1	20	"	16	
17	HEAT PUMP HP3	20	2	HACR	1300				3865	HACR	3	60	CONDENSER WATER PUMP CP2	18	
19	"				1300	5165			3865	-	1	20	"	20	
21	SPARE	20	1	-			3865		3865	-	1	20	"	22	
23	SPARE	20	1	-						-	1	20	SPARE	24	
25	SPARE	20	1	-						-	1	20	SPARE	26	
27	SPARE	20	1	-						-	1	20	SPARE	28	
29	SPARE	20	1	-						-	1	20	SPARE	30	
31	SPARE	20	1	-						-	1	20	SPARE	32	
33	SPARE	20	1	-						-	1	20	SPARE	34	
35	SPARE	20	1	-						-	1	20	SPARE	36	
37	SPARE	20	1	-						-	1	20	SPARE	38	
39	SPARE	20	1	-						-	1	20	SPARE	40	
41	SPARE	20	1	-						-	1	20	SPARE	42	

ENCLOSURE ACCESSORIES: CH,FL      PANELBOARD ACCESSORIES: GB,CBB

CIRCUIT BREAKER ACCESSORIES: AC - AUXILIARY CONTACTS, EO - ELECTRICAL OPERATOR, GFCI - GROUND-FAULT INTERRUPTING, HACR - HACR RATING, HLF - HANDLE LOCK-OFF, HLN - HANDLE LOCK-ON, SR - SWITCH RATING, ST - SHUNT TRIP

ENCLOSURE ACCESSORIES: CH - CONCEALED HINGE, CW - COLUMN WIDTH PANEL, DWD - HINGED DOOR WITH HINGED DOOR, EG - EXTENDED GUTTER TOP, EGB - EXTENDED GUTTER BOTTOM, EGS - EXTENDED GUTTER LEFT HAND SIDE, EGSR - EXTENDED GUTTER RIGHT HAND SIDE, FL - FLUSH LOCK(S)

PANELBOARD ACCESSORIES: CL - COMPRESSION LUGS, FTL - FEED-THRU LUGS, GB - EQUIPMENT GROUND BAR KIT, GBI - GROUND BAR INSULATOR KIT, NBK - NEUTRAL BONDING KIT, PS - PREPARED CIRCUIT BREAKER SPACE, SB - SPLIT BUS, SER - SERVICE ENTRANCE RATING, SFB - SUB-FEED CIRCUIT BREAKER, SFL - SUB-FEED LUGS, CBB - SILVER PLATED COPPER BUS BARS, ABB - TIN PLATED ALUMINUM BUS BARS, TRN - 200% RATED NEUTRAL BUS BAR, TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSION, SBR - SPLIT BUS, SER - SERVICE ENTRANCE RATING

NOTES: CR - CONFIRM REQUIREMENTS FOR EQUIPMENT FURNISHED BY OTHERS

PANELBOARD SCHEDULE												P5			
VOLTAGE:		120/208		POLES:		42		MOUNTING:		SURFACE		ENCLOSURE:		NEMA 1	
PHASE / WIRE:		3 / 4		KAIC AMPS (RMS):		22		LOCATION:		LIFE SUPPRT 110		MANUFACTURER:		SQUARE D	
AMPS:		225		MAIN BREAKER / MLO:		MLO		FED FROM:		MDP		MODEL:		NQ	
CIRC. NO.	EQUIPMENT SERVED	C/B AMPS	C/B POLES	C/B ACC.	LOAD (VA)	PHASE LOADS (VA)			LOAD (VA)	C/B ACC.	C/B POLES	C/B AMPS	EQUIPMENT SERVED	CIRC. NO.	
						A	B	C							
1	SPARE	20	1	-		1725			1725	HACR	2	30	HP7	2	
3	SPARE	20	1	-			1725		1725	-	1	20	SPARE	4	
5	SPARE	20	1	-						-	1	20	SPARE	6	
7	SPARE	20	1	-						-	1	20	SPARE	8	
9	SPARE	20	1	-						-	1	20	SPARE	10	
11	SPARE	20	1	-						-	1	20	SPARE	12	
13	SPARE	20	1	-						-	1	20	SPARE	14	
15	SPARE	20	1	-						-	1	20	SPARE	16	
17	SPARE	20	1	-						-	1	20	SPARE	18	
19	SPARE	-	1	-						-	1	-	SPARE	20	
21	SPARE	-	1	-						-	1	-	SPARE	22	
23	SPARE	-	1	-						-	1	-	SPARE	24	
25	SPARE	-	1	-						-	1	-	SPARE	26	
27	SPARE	-	1	-						-	1	-	SPARE	28	
29	SPARE	-	1	-						-	1	-	SPARE	30	
31	SPARE	-	1	-						-	1	-	SPARE	32	
33	SPARE	-	1	-						-	1	-	SPARE	34	
35	SPARE	-	1	-						-	1	-	SPARE	36	
37	SPARE	-	1	-						-	1	-	SPARE	38	
39	SPARE	-	1	-						-	1	-	SPARE	40	
41	SPARE	-	1	-						-	1	-	SPARE	42	

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SURGE PROTECTION DEVICE SCHEDULE							
MARK	MANUFACTURER	MODEL	SURGE RATING	VOLTAGE	MODES OF PROTECTION	MCOV	NOTES AND OPTIONS
SPD1	CURRENT TECHNOLOGY	#CGP150	150KA PER MODE	120/208V 3PH, 4W	L-N,L-G,N-G,L-L	300V	NEMA 4, 2,5

ACCESSORIES/NOTES:  
1. INTEGRAL DISCONNECT  
2. STATUS L.E.D.s  
3. STANDARD MONITORING  
4. ADVANCED MONITORING - PRIMARY MONITORING PLUS EVENT COUNTER DISPLAY, AUDIBLE ALARM WIRED  
5. STANDALONE ENCLOSURE - TVSS SHALL NOT BE INTEGRAL TO SWITCHGEAR

ABBREVIATIONS:  
L-N - LINE TO NEUTRAL  
L-G - LINE TO GROUND  
N-G - NEUTRAL TO GROUND  
L-L - LINE TO LINE

LIGHTING CONTACTOR SCHEDULE										
MARK	LOAD		CONTACTOR				INTERLOCK			
	EQUIPMENT SERVED	WATTS	VOLTAGE	TYPE	AMP	POLE	ENCLOSURE	ACCESSORIES	CONTROLLED BY	CONTROLS
LC1	EXTERIOR LIGHTING	-	120	NOEH	30	8	NEMA 1	1,2,3,4	BUILDING MANAGEMENT SYSTEM	-
LC2	SITE LIGHTING	-	208	NOEH	30	8	NEMA 1	1,2,3,4	BUILDING MANAGEMENT SYSTEM	-

ACCESSORIES:  
1. COORDINATE COIL VOLTAGE WITH ENERGY MANAGEMENT SYSTEM CONTRACTOR  
2. H-O-A SELECTOR SWITCH WITH PILOT LIGHT  
3. GREEN PILOT LIGHT, ON WHEN LOAD IS ON  
4. PROVIDE CONTROL COIL POWERED BY ASSOCIATED LIGHTING CIRCUIT.

PANELBOARD SCHEDULE												P1			
VOLTAGE:		120/208		POLES:		30		MOUNTING:		SURFACE		ENCLOSURE:		NEMA 1	
PHASE / WIRE:		3 / 4		KAIC AMPS (RMS):		22		LOCATION:		DOCK/STOR 109		MANUFACTURER:		SQUARE D	
AMPS:		100		MAIN BREAKER / MLO:		MLO		FED FROM:		MDP		MODEL:		NQ	
CIRC. NO.	EQUIPMENT SERVED	C/B AMPS	C/B POLES	C/B ACC.	LOAD (VA)	PHASE LOADS (VA)			LOAD (VA)	C/B ACC.	C/B POLES	C/B AMPS	EQUIPMENT SERVED	CIRC. NO.	
						A	B	C							
1	DOCK/STORAGE 109	20	1	-	360	900			540	-	1	20	DOCK/STORAGE 109	2	
3	DOCK/STORAGE 109	20	1	-	180		360		180	-	1	20	DOCK/STORAGE 109	4	
5	GIFT 103	20	1	-	180				180	-	1	20	VESTIBULE 100	6	
7	PAVILLION	20	1	-	540	1080			360	-	1	20	RECEPTION 102	8	
9	JANITOR 108/HP1	20	1	-	220				920	-	1	20	DRINKING FOUNTAIN	10	
11	BATHROOM 107/108	20	1	-	1080				1780	-	1	20	DRINKING FOUNTAIN	12	
13	DOCK/STORAGE 109 LIGHTING	20	1	-						-	1	20	SPARE	14	
15	EXHIBIT SCREENS	20	1	-	540				540	-	1	20	SPARE	16	
17	SPARE	20	1	-						-	1	-	SPARE	18	
19	SPARE	20	1	-						-	1	-	SPARE	20	
21	SPARE	20	1	-						-	1	-	SPARE	22	
23	SPARE	20	1	-						-	1	-	SPARE	24	
25	SPARE	-	1	-						-	1	-	SPARE	26	
27	SPARE	-	1	-						-	1	-	SPARE	28	
29	SPARE	-	1	-						-	1	-	SPARE	30	

ENCLOSURE ACCESSORIES: CH,FL      PANELBOARD ACCESSORIES: GB,CBB

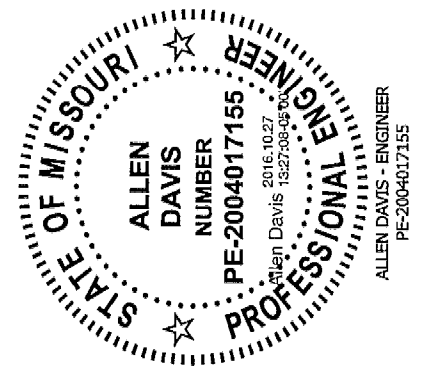
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PANELBOARD SCHEDULE												P2			
VOLTAGE:		120/208		POLES:		84		MOUNTING:		SURFACE		ENCLOSURE:		NEMA 1	
PHASE / WIRE:		3 / 4		KAIC AMPS (RMS):		22		LOCATION:		MECH 113		MANUFACTURER:		SQUARE D	
AMPS:		400		MAIN BREAKER / MLO:		MLO		FED FROM:		MDP		MODEL:		NQ	
CIRC. NO.	EQUIPMENT SERVED	C/B AMPS	C/B POLES	C/B ACC.	LOAD (VA)	PHASE LOADS (VA)			LOAD (VA)	C/B ACC.	C/B POLES	C/B AMPS	EQUIPMENT SERVED	CIRC. NO.	
						A	B	C							
1	CONFERENCE 120	20	1	-	1620				180	-	1	20	PORCH	2	
3	STORAGE RECEPTACLES	20	1	-	540			1080	540	-	1	20	BREAK 130	4	
5	REFRIGERATOR	20	1	-	1000				500	-	1	20	GARBAGE DISPOSAL	6	
7	SPARE	20	1	-				1080	1080	-	1	20	OFFICE 127/128	8	
9	OFFICE 126	20	1	-	540				1800	-	1	20	OPEN OFFICE 121	10	
11	OPEN OFFICE 121	20	1	-	540				720	-	1	20	STORAGE 125	12	
13	COPY 124	20	1	-	540			540		-	1	20	SPARE	14	
15	DOCK/STORAGE 109 LIGHTING	20	1	-	480				480	-	1	20	SPARE	16	
17	PAVILION LIGHTING	20	1	-	198				598	-	1	20	PAVILION LIGHTING	18	
19	PAVILION/PORCH LIGHTING	20	1	-	120			390	270	-	1	20	RECEPTION LIGHTING	20	
21	LOBBY TRACK LIGHTING	20	1	-	1200				800	-	1	20	LOBBY TRACK LIGHTING	22	
23	EXHIBIT TRACK LIGHTING	20	1	-	800				1280	-	1	20	LIFE SUPPORT LIGHTING	24	
25	EXHIBIT 104 LIGHTING	20	1	-	550			1350	800	-	1	20	EXHIBIT TRACK LIGHTING	26	
27	EXHIBIT OUTDOOR LIGHTING	20	1	-	50				1212	-	1	20	EXHIBIT CLASS/LIVE ANIMAL LIGHTING	28	
29	LIVE ANIMAL 115 LIGHTING	20	1	-	480				1680	-	1	20	GATHERING TRACK LIGHTING	30	
31	GATHERING 112 LIGHTING	20	1	-	1200				720	-	1	20	GATHERING 112 LIGHTING	32	
33	BATHROOM 107/108 LIGHTING	20	1	-	640				1440	-	1	20	MECHANICAL/LIFE/RESTROOM LIGHTING	34	
35	CONFERENCE/STORAGE/OFFICE LIGHTING	20	1	-	1500				1770	-	1	20	GATHERING 112 LIGHTING	36	
37	OPEN OFFICE LIGHTING	20	1	-	1403			2503	1100	-	1	20	PORCH LIGHTING	38	
39	SPARE	20	1	-					3460	-	1	20	HEAT PUMP HP5	40	
41	WATER HEATER WH1	30	2	HLF	2250				5710	-	3	45	"	42	
43	"				2250				5710	-	3	45	"	44	
45	FACP	20	1	HLN	200				3660	-	3	45	HEAT PUMP HP6	46	
47	HEAT PUMP HP8	45	2	HACR	2750				6210	-	3	45	"	48	
49	"		</												



Date:	10-27-16
Revised:	-
Scale:	AS NOTED
Drawn:	AKD
Checked:	---
Job:	14023

PANELBOARD SCHEDULE														MDP	
VOLTAGE:		120/208		MOUNTING SPACE:		AS REQ'D		MOUNTING:		EXTERIOR/SURFACE		ENCLOSURE:		NEMA 3R	
PHASE / WIRE:		3 / 4		KAIC AMPS (RMS):		42		LOCATION:		EXTERIOR		MANUFACTURER:		SQUARE D	
AMPS:		600		MAIN BREAKER / MLO:		600A MCB		FED FROM:		SERVICE XFMR		MODEL:		I-LINE	
CIRC. NO.	LOAD	CB TYPE	CB AMPS	CB POLES	CB ACC.	PHASE LOADS (VA)			LOAD (VA)	CB ACC.	CB POLES	CB AMPS	CB TYPE	LOAD	CIRC. NO.
						A	B	C							
1	PANEL P1	-	100	3		1980	26483		24503		3	300	-	PANEL P2	2
						1820		25967							
						2140			24147						
						5145	23091		26373						
3	PANEL P3	-	100	3		3980		20580			3	225	-	PANEL P4	4
						3945			17946						
						1725	1730		16600						
						0			20645						
5	PANEL P5	-	225	3		0			16700		3	100	-	SURGE PROTECTION DEVICE SPD1	6
						0			5						
						0			5						
7	SPARE	-	200	3		0			5		3	-	-	SPACE ONLY	8
						0			5						
						0			5						

LIGHTING FIXTURE SCHEDULE													
MARK	MANUFACTURER	MODEL #	FINISH	MOUNTING	LAMPS			FIXTURE	VOLTAGE	APPROVED	NOTES		
					TYPE	CODE	QTY.						
B1	HESS	LN950-HP/LED-NW-UNV-D-035RA-SG-N	DARK GREY	BOLLARD	LED	WITH FIXTURE	-	33	208	SUBMIT	3,11		
DP1	DELRAY	6725-S-W30-8DIM-W2-C-XP	SILVER/WHITE	PENDANT	LED	WITH FIXTURE	-	87	120	SUBMIT	2,4		
EW1	TERON	TRITON-LED-L32.0-120-CGL-BZ-PCL120-EBW	BRONZE	SURF/WALL	LED	WITH FIXTURE	-	35	120	SUBMIT	3,9,14		
EW2	TERON	TRITON-LED-L32.0-120-CGL-BZ-PCL120-EBW	BRONZE	SURF/WALL	LED	WITH FIXTURE	-	35	120	SUBMIT	3,9		
FL1	REMCRAFT	2074 DOUBLE BULLET	SILVER	SURFACE	LED	LED REPLACEMENT	-	35	120	SUBMIT	3		
FL2	ACCLAIM	ALB 231.BPHU-ALQ81000LV	SILVER	GRADE	LED	WITH FIXTURE	-	75	120	SUBMIT	3		
IG1	LUMIERE	3002A-RD-18LED3000-MFL-CLR-UNV-CS	SILVER	IN-GRADE	LED	WITH FIXTURE	-	18	120	SUBMIT	3		
LC1	ACCLAIM	FLEXI35/FLX444/DPW-311-JBAT	STD	RECESSED	LED	WITH FIXTURE	-	5.5/FT	120	SUBMIT	2		
LC2	ACCLAIM	(1) DCA-142-D-A-D-U	STD	COVE	LED	WITH FIXTURE	-	80	120	SUBMIT	2		
LC3	ACCLAIM	(2) DCA-142-D-A-D-U	STD	COVE	LED	WITH FIXTURE	-	160	120	SUBMIT	2		
LP1	FOCAL POINT	FSM485-875LF-35K-1C-120-LD1-C96*-TS-40'	SILVER	SUSPENDED	LED	WITH FIXTURE	-	480	120	SUBMIT	2,4		
LP2	FOCAL POINT	FSM485-875LF-35K-1C-120-LD1-C96*-TS-32'	SILVER	SUSPENDED	LED	WITH FIXTURE	-	384	120	SUBMIT	2,4		
LP3	FOCAL POINT	FSM485-875LF-35K-1C-120-LD1-C96*-TS-76'	WHITE	SUSPENDED	LED	WITH FIXTURE	-	912	120	SUBMIT	2,4,12		
LR1	ACCLAIM	FLEXPE35/FLX444/APS-240-24	STD	RECESSED	LED	WITH FIXTURE	-	5.5/FT	120	SUBMIT	7		
LS1	HE WILLIAMS	75-4-LED*PH65-A12125-120	WHITE	SURF/CLG	LED	WITH FIXTURE	-	49	120	METALUX	-		
LS2	HE WILLIAMS	75-8-LED*PH130-A12125-120	WHITE	SURF/CLG	LED	WITH FIXTURE	-	97	120	METALUX	-		
LW1	FOCAL POINT	FSM485-875LF-35K-1C-120-LD1-C96*-TS-22'	SILVER	SURF/WALL	LED	WITH FIXTURE	-	264	120	SUBMIT	2		
PL1	MCGRAW EDISON	VTS-E06-LED-E1-T3-7030	GRAY	POLE	LED	WITH FIXTURE	-	150	208	SUBMIT	3,10		
PL2	MCGRAW EDISON	VTS-E06-LED-E1-T4-7030	GRAY	POLE	LED	WITH FIXTURE	-	150	208	SUBMIT	3,10		
PL3	MCGRAW EDISON	VTS-E06-LED-E1-T4-7030-VA1034-XX	GRAY	POLE	LED	WITH FIXTURE	-	300	208	SUBMIT	3,10		
SL1	INVUE	SQS-C-18-LEDWH-120-FR-BZ	SILVER	RECESSED	LED	WITH FIXTURE	-	18	120	SUBMIT	3,13		
SL2	LUMIERE	1211-OA-CF9-120-CS	SILVER	RECESSED	LED	WITH FIXTURE	-	18	120	SUBMIT	3,13		
TK1	LSI	LP2-20-30K HEADS WITH GEM TRACK (LENGTH AND HEADS PER PLANS)	SILVER	SUSPENDED	LED	WITH FIXTURE	-	27	120	SUBMIT	2,8		
TK2	LSI	LP2-20-30K HEADS WITH GEM TRACK (LENGTH AND HEADS PER PLANS)	SILVER	SUSPENDED	LED	WITH FIXTURE	-	27	120	SUBMIT	2,8		
TR1	HE WILLIAMS	50G-S24-LED*PH90/835-SA12125-120	WHITE	RECESSED	LED	WITH FIXTURE	-	94	120	METALUX	-		
TR2	HE WILLIAMS	HETL-G-14-L52/835-F-CHA118-S-DIM-120	WHITE	RECESSED	LED	WITH FIXTURE	-	94	120	METALUX	-		
TR3	FOCAL POINT	FSM4L-FL-875LF-35K-1C-120-LD1-C96*-TS-12'	SILVER	RECESSED	LED	WITH FIXTURE	-	129	120	SUBMIT	-		
TR4	FOCAL POINT	FSM4L-FL-875LF-35K-1C-120-LD1-C96*-TS-8'	SILVER	RECESSED	LED	WITH FIXTURE	-	86	120	SUBMIT	-		
TR5	ELP	AK-SP-3-TLD-120	SILVER	RECESSED	LED	WITH FIXTURE	-	24	120	SUBMIT	2		
TR6	ELP	AK-SP-6-TLD-120	SILVER	RECESSED	LED	WITH FIXTURE	-	65	120	SUBMIT	2		
UC1	HE WILLIAMS	15F-4-L24/835-AF12125-DRV-UNV	WHITE	SURFACE	LED	WITH FIXTURE	-	29	120	METALUX	-		
WS1	FOCAL POINT	FTRL-AC-LL1-35K-1C-120-LD1-G-WH-XX'	WHITE	RECESSED	LED	WITH FIXTURE	-	6/FT	120	SUBMIT	-		
WS2	FOCAL POINT	FTRL-AC-LL1-35K-1C-120-LD1-G-WH-XX'	WHITE	RECESSED	LED	WITH FIXTURE	-	6/FT	120	SUBMIT	2,15		
EMX1	HE WILLIAMS	EXIT/EM/LED-SF-G-WHT	WHITE/GRN	SURFACE	LED	WITH FIXTURE	-	5	120	SURELITES	9		
X1	HE WILLIAMS	EXIT/EL-XF-R-AN-EM-SDT	ANOD ALUM/GRN	SURFACE	LED	WITH FIXTURE	-	5	120	SURELITES	9		

NOTES:  
1. FIELD VERIFY EXACT LOCATION AND INSTALLATION HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.  
2. PROVIDE WITH 0-10-VOLT DC DIMMING DRIVER.  
3. PROVIDE WITH LOW-AMBIENT/COLD WEATHER DRIVER.  
4. PROVIDE WITH CUSTOM SUSPENSION ACCESSORIES AS REQUIRED FOR INSTALLATION AT ELEVATION AS DIRECTION BY ARCHITECT. COORDINATE REQUIREMENTS FOR SUPPORT AND POWER THROUGH ROOFING PANELS.  
5. INSTALL IN-GRADE FIXTURE PER MANUFACTURER'S RECOMMENDATIONS.  
6. PROVIDE WITH 0-10-VOLT DC DIMMING DRIVER. FIELD COORDINATE FOR INSTALLATION AT ACCESSIBLE, BUT VISUALLY CONCEALED LOCATION.  
7. PROVIDE WITH LOW-AMBIENT/COLD WEATHER DRIVER. FIELD COORDINATE FOR INSTALLATION AT ACCESSIBLE, BUT VISUALLY CONCEALED LOCATION.  
8. PROVIDE 8" TRACK SECTIONS IN TOTAL LENGTH PER PLANS. PROVIDE WITH ALL ACCESSORIES REQUIRED FOR COMPLETE PENDANT INSTALLATION.  
9. PROVIDE WITH INTEGRAL BATTERY FOR MINIMUM 90-MINUTES OF EMERGENCY OPERATION.  
10. PROVIDE WITH 4" SQUARE, 25' POLE, ANHOR BOLT COVER, AND ADDITIONAL ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.  
11. INSTALL BOLLARD PER MANUFACTURER'S RECOMMENDATIONS.  
12. PROVIDE WITH INSIDE HORIZONTAL CORNERS PER PLAN.  
13. INSTALL CONTINUOUS CONCRETE PAD WITH SEPARATE CONDUIT FEED FOR EACH FIXTURE SECTION TO AVOID USE OF INTERCONNECTION CABLES.  
14. PROVIDE WITH BODINE MODEL GTD GENERATOR TRANSFER DEVICE FOR NORMALLY OFF, EMERGENCY ONLY OPERATION.  
15. PROVIDE WITH INSIDE CORNER ACCESSORY PER PLAN.

PANELBOARD SCHEDULE														P3	
VOLTAGE:		120/208		POLES:		30		MOUNTING:		SURFACE		ENCLOSURE:		NEMA 1	
PHASE / WIRE:		3 / 4		KAIC AMPS (RMS):		22		LOCATION:		STORAGE 116		MANUFACTURER:		SQUARE D	
AMPS:		100		MAIN BREAKER / MLO:		MLO		FED FROM:		MDP		MODEL:		NQ	
CIRC. NO.	EQUIPMENT SERVED	CB TYPE	CB AMPS	CB POLES	CB ACC.	PHASE LOADS (VA)			LOAD (VA)	CB ACC.	CB POLES	CB AMPS	EQUIPMENT SERVED	CIRC. NO.	
						A	B	C							
1	CLASS 114	20	1	-		1080	1580		500	-	1	20	LIVE ANIMAL 115 (EQUIPMENT)	2	
3	CLASS 114	20	1	-		1080	1580		500	-	1	20	LIVE ANIMAL 115 (EQUIPMENT)	4	
5	LIVE ANIMAL 115	20	1	-		180		680	500	-	1	20	LIVE ANIMAL 115 (EQUIPMENT)	6	
7	STORAGE 119	20	1	-		180	540		360	-	1	20	RECEPTACLES - AUDITORIUM 118	8	
9	RECEPTACLE - PROJECTOR, AUDITORIUM 118	20	1	-		180		900	720	-	1	20	RECEPTACLES - AUDITORIUM 118	10	
11	LIGHTING - CLASS/LIVE ANIMAL/ STORAGE	20	1	-		1565		2765	1200	-	1	20	LIGHTING - AUDITORIUM 118	12	
13	LIGHTING - AUDITORIUM 118	20	1	-		1825	3025		1200	-	1	20	MOTORIZED BLACKOUT SHADES	14	
15	HEAT PUMP HP4	15	2	-		500		1500	1000	-	1	30	ROOF DRAINAGE SYSTEM	16	
17	"					500		500		-	1	20	SPACE	18	
19	SPARE	20	1	-						-	1	-	SPACE	20	
21	SPARE	20	1	-						-	1	-	SPACE	22	
23	SPARE	20	1	-						-	1	-	SPACE	24	
25	SPACE	-	1	-						-	1	-	SPACE	26	
27	SPACE	-	1	-						-	1	-	SPACE	28	
29	SPACE	-	1	-						-	1	-	SPACE	30	

ENCLOSURE ACCESSORIES: CH,FL  
PANELBOARD ACCESSORIES: GB,CBB

CIRCUIT BREAKER ACCESSORIES:  
AC - AUXILIARY CONTACTS  
EO - ELECTRICAL OPERATOR  
GFCI - GROUND-FAULT INTERRUPTING  
HACR - HACR RATING  
HLF - HANDLE LOCK-OFF  
HLN - HANDLE LOCK-ON  
SH - SWITCH RATING  
ST - SHUNT TRIP

ENCLOSURE ACCESSORIES:  
CH - CONCEALED HINGE  
CW - COLUMN WIDTH PANEL  
DWD - HINGED DOOR WITH HINGED DOOR  
EGT - EXTENDED GUTTER TOP  
EGB - EXTENDED GUTTER BOTTOM  
EGLS - EXTENDED GUTTER LEFT HAND SIDE  
EGSR - EXTENDED GUTTER RIGHT HAND SIDE  
FL - FLUSH LOCK(S)

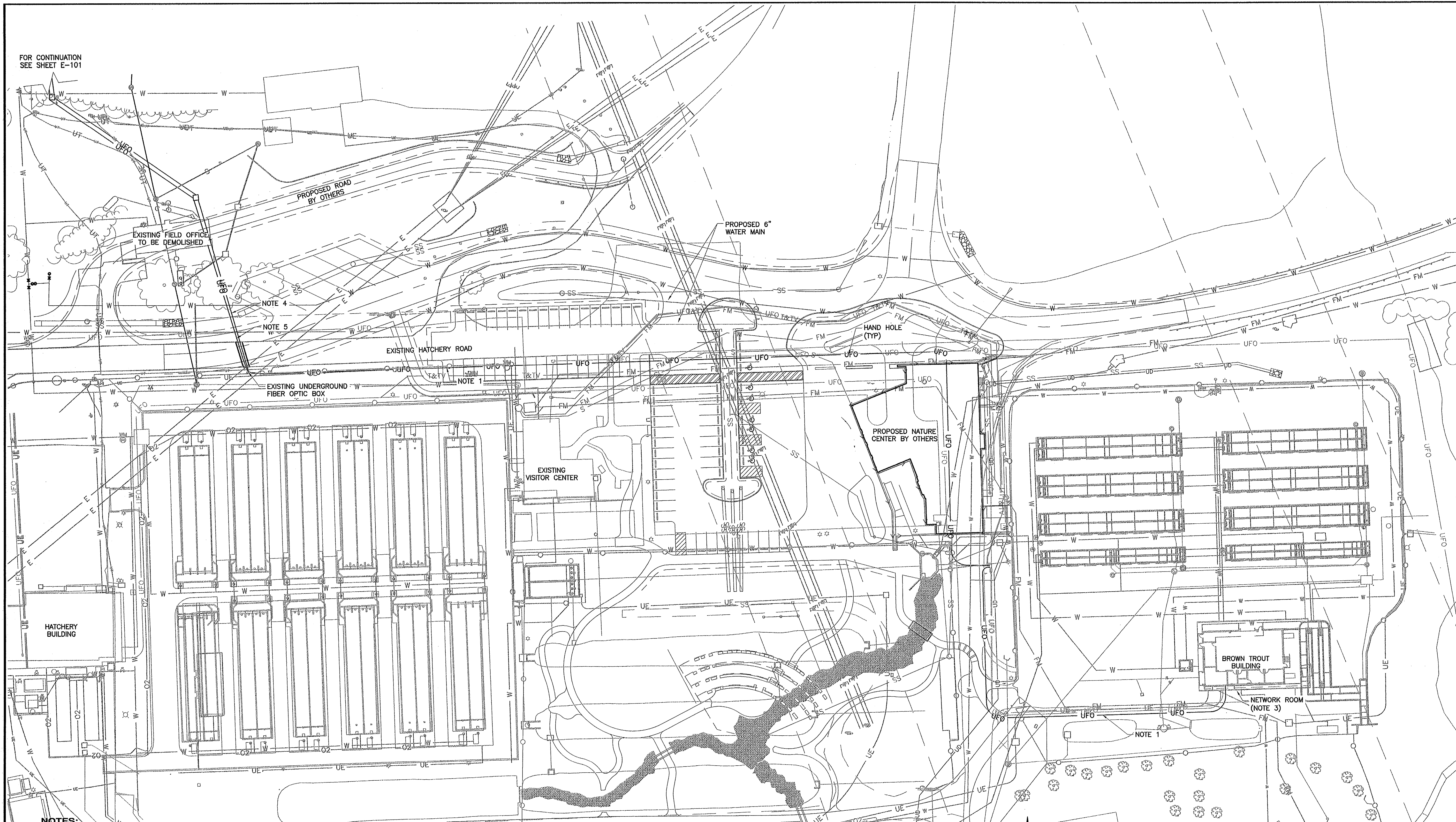
PANELBOARD ACCESSORIES:  
CL - COMPRESSION LUGS  
FTL - FEED-THRU LUGS  
GB - EQUIPMENT GROUND BAR KIT  
GBI - GROUND BAR INSULATOR KIT  
NBK - NEUTRAL BONDING KIT  
PS - PREPARED CIRCUIT BREAKER SPACE  
SB - SPLIT BUS  
SER - SERVICE ENTRANCE RATING

SFB - SUB-FEED CIRCUIT BREAKER  
SFL - SUB-FEED LUGS  
CBB - SILVER PLATED COPPER BUS BARS  
ABB - TIN PLATED ALUMINUM BUS BARS  
TRN - 200% RATED NEUTRAL BUS BAR  
TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSION

NOTES:  
CR - CONFIRM REQUIREMENTS FOR EQUIPMENT FURNISHED BY OTHERS



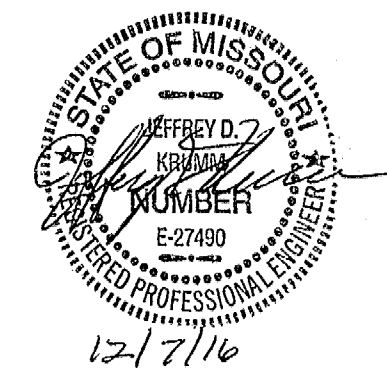
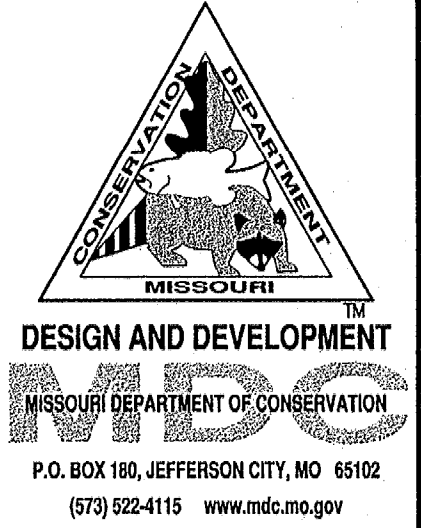
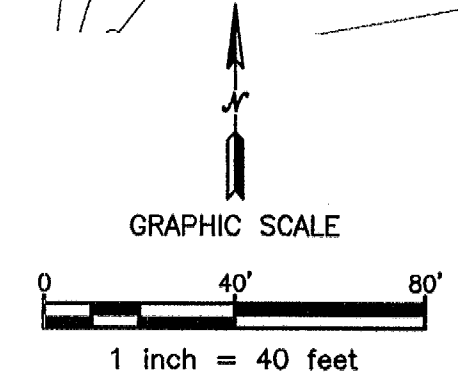
FOR CONTINUATION  
SEE SHEET E-101



**NOTES:**

1. CONTRACTOR SHALL FURNISH AND INSTALL PHONE AND FIBER-OPTIC CABLE IN EXISTING CONDUIT FROM THE NETWORK ROOM OF THE BROWN TROUT BUILDING TO THE NEW WORKSHOP. THE FIBER-OPTIC CABLE SHALL BE SUPERIOR ESSEX, OUTDOOR RATED CAT.#W4012X1YY IN EXISTING CONDUIT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LENGTH OF CABLING REQUIRED TO INTER-CONNECT THE TWO BUILDINGS. IF THE LENGTH OF CABLE WILL EXCEED 2000 FEET THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY. CONTRACTOR SHALL LEAVE 10' OF CABLE AT BOTH ENDS OF CABLE FOR SERVICE LOOP.
2. NOT USED.
3. CONTRACTOR SHALL FURNISH AND INSTALL LEVITON RACK MOUNTED FIBER OPTIC PATCH PANEL CAT.#5R1UM-F03 WITH LEVITON FIBER OPTIC LC CONNECTORS AND CONNECTOR PLATE CAT.#5F100-2LL. FIBER-OPTIC PATCH PANEL SHALL BE MOUNTED IN THE TOP OF EXISTING RACK IN NETWORK ROOM OF BROWN TROUT BUILDING. CONTRACTOR SHALL COORDINATE WITH OWNER FOR APPROVAL OF LOCATIONS.
4. CONTRACTOR SHALL FURNISH AND INSTALL FIBER-OPTIC CABLE SUPERIOR ESSEX, OUTDOOR RATED CAT.#W4012X1YY IN 2" CONDUIT. CONDUIT SHALL RISE ON OUTSIDE OF BUILDING TO PULL BOX. CONTRACTOR SHALL ROUTE CABLE INTO BUILDING AND TERMINATE. CONTRACTOR SHALL LEAVE 10' OF CABLE AT BOTH ENDS OF CABLE FOR SERVICE LOOP.
5. SPARE 2" CONDUIT WITH PULL ROPE. CONTRACTOR SHALL FURNISH AND INSTALL A 2" CONDUIT FROM EXISTING FIBER OPTIC HAND HOLE TO THE NEW WORKSHOP. CONDUIT SHALL RISE ON OUTSIDE OF BUILDING TO PULL BOX.

**1 COMMUNICATIONS SITE PLAN**  
SCALE: 1" = 40'



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**SHEPHERD OF THE HILLS FISH HATCHERY**

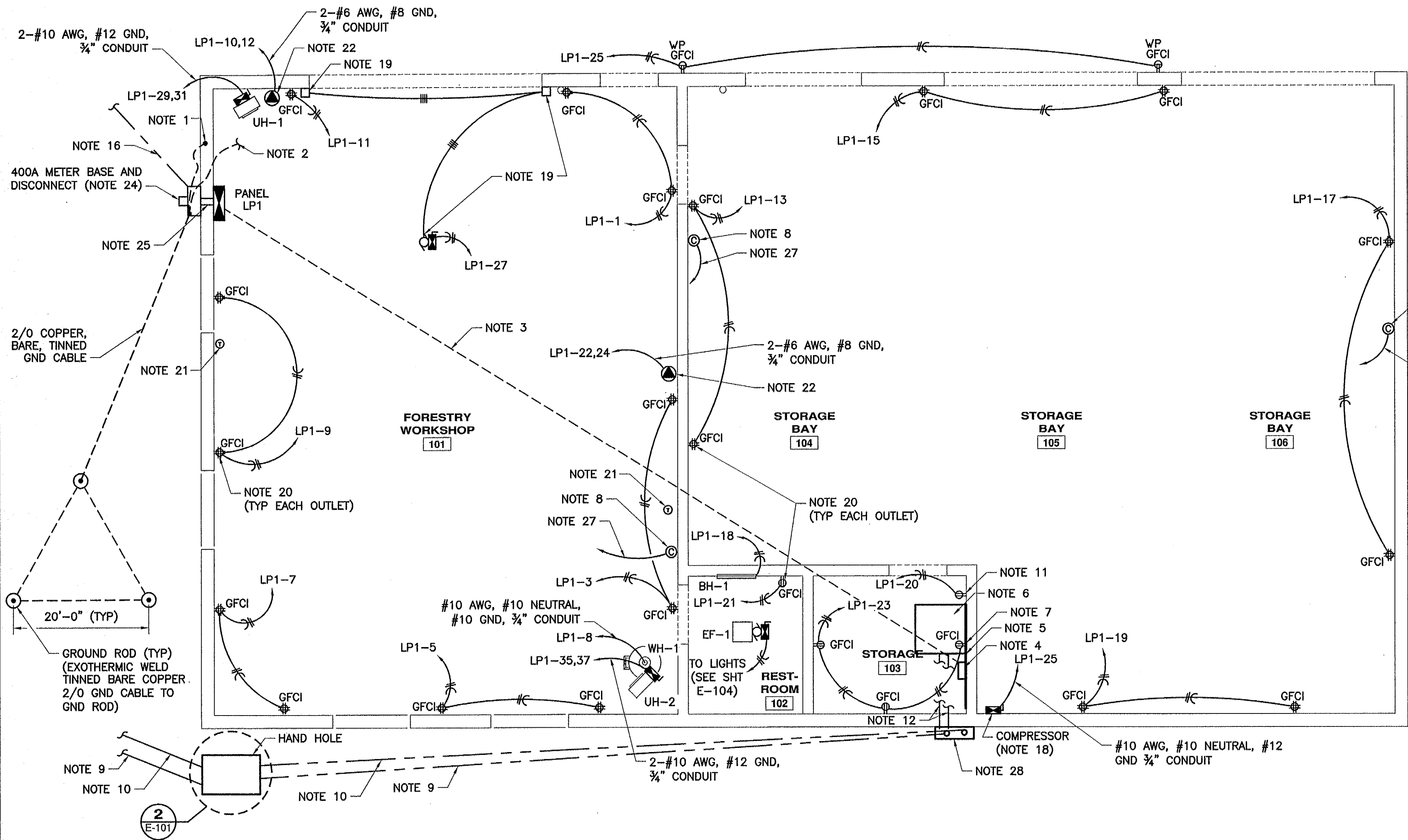
STORAGE BUILDING IMPROVEMENTS

TANEY COUNTY

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		ISSUE
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CAD DWG FILE: 56-01-64_E-102.dwg		
DRAWN BY: JMT		
DESIGNED BY: JDK		
CHECKED BY:		
SHEET TITLE		

**COMMUNICATIONS SITE PLAN**

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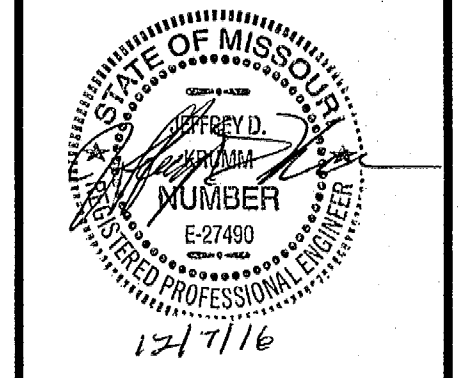
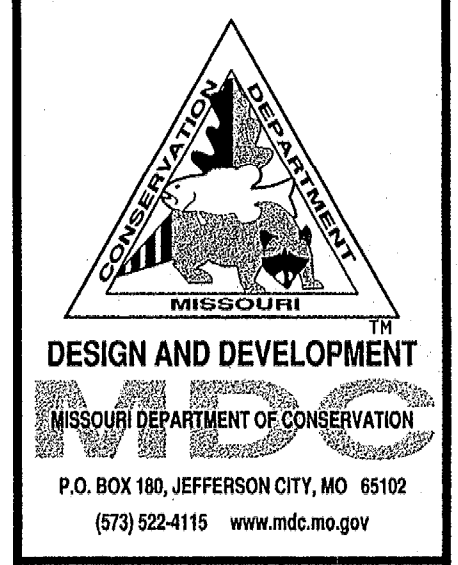
**1 WORKSHOP POWERWIRING PLAN**  
SCALE: 1/4" = 1'-0"

**NOTES:**

- EXOTHERMIC WELD #2/0 TINNED BARE COPPER GROUND CABLE TO REBAR IN FOOTING, FOUR PLACES.
- BOND #2/0 GND CABLE TO WATER PIPE.
- CONTRACTOR SHALL FURNISH AND INSTALL #6 GND CABLE IN 3/4" PVC CONDUIT, ALL CONDUIT STRAPS SHALL BE NON-METALLIC. CONTRACTOR SHALL NOT INSTALL CONDUIT UNDER CONCRETE SLAB. CONTRACTOR SHALL BOND GND CABLE TO GND BUS IN PANEL AND TO TELECOM GND BUS.
- CONTRACTOR SHALL FURNISH AND INSTALL A TELECOMMUNICATIONS GROUNDING BUS BAR COMPLYING WITH ANSI/TIA/EIA-607. CONNECT #6 AWG GROUNDING CONDUCTOR TO BOX USING 2-HOLE COMPRESSION LUG FURNISHED AND INSTALL ON END OF CABLE.
- CONTRACTOR SHALL FURNISH AND INSTALL A SHEET OF 3/4" FIRE RATED PLYWOOD 4'x4' ANCHORED TO THE WALL WITH SCREWS. THE BOTTOM EDGE OF THE PLYWOOD SHALL BE 30" ABOVE FINISHED FLOOR, PAINT PLYWOOD TO MATCH COLOR OF WALLS.
- CONTRACTOR SHALL FURNISH AND INSTALL A 24"x24"x36" WALL MOUNTED SWING CABINET CHATSWORTH CAT #11900-236 WITH PLEXIGLASS DOOR. MOUNT PATCH PANELS IN UPPER 1/3 OF RACK. CONTRACTOR SHALL FURNISH AND INSTALL LEVITON FIBER PATCH PANEL CAT.#SR1UM-F03 WITH LEVITON FIBER OPTIC LC CONNECTORS AND LC ADAPTOR PLATE LEVITON CAT.#SF100-2LL.
- LOCATE RECEPTACLE BELOW RACK COORDINATE WITH OWNER FOR LOCATION.
- CONTRACTOR SHALL FURNISH AND INSTALL TWO RJ-45 JACKS WITH 2-CAT6e CABLES. CONTRACTOR SHALL TERMINATE CABLES TO JACKS.
- CONTRACTOR SHALL FURNISH AND INSTALL FIBER-OPTIC CABLE SUPERIOR ESSEX CAT. #W4012X1Y, OUTDOOR RATED IN 2" CONDUIT. CONDUIT SHALL RISE ON OUTSIDE OF BUILDING INTO PULL BOX. CONTRACTOR SHALL ROUTE CABLE INTO BUILDING AND TERMINATE. DO NOT INSTALL THROUGH FLOOR SLAB. CONTRACTOR SHALL LEAVE 10' OF CABLE AT BOTH ENDS OF CABLE FOR SERVICE LOOP.
- SPARE 2" CONDUIT WITH PULL ROPE. CONDUIT SHALL RISE ON OUTSIDE OF BUILDING INTO JUNCTION BOX. CONTRACTOR SHALL FURNISH AND INSTALL TWO 2" CONDUITS FROM PULL BOX TO BUILDING ENTRANCE TERMINAL. DO NOT INSTALL THROUGH FLOOR SLAB.
- MOUNT RECEPTACLE NEXT TO CABINET TO ALLOW EQUIPMENT IN CABINET EASY ACCESS TO POWER. COORDINATE WITH OWNER FOR EXACT LOCATION.
- CONTRACTOR SHALL EXTEND 2-2" CONDUIT TO WALL MOUNTED CABINET AND TERMINATE. CONTRACTOR SHALL EXTEND FIBER THROUGH CONDUIT TO PATCH PANEL AND TERMINATE. INSTALLATION OF CONDUITS TO RACK SHALL BE COORDINATED WITH OWNER SO NOT TO BLOCK INSTALLATION OF EQUIPMENT BY OWNER.
- NOT USED.
- NOT USED.
- ALL EXTERIOR CONDUITS SHALL RISE ON THE OUTSIDE OF THE BUILDING AND LB THROUGH WALL, 24" MINIMUM ABOVE FINISHED FLOOR.
- CONTRACTOR SHALL TRENCH AND BACKFILL FOR SERVICE TO BUILDING. CONTRACTOR SHALL MEET WHITE RIVER VALLEY ELECTRIC COOPERATIVE TRENCHING & BACKFILL REQUIREMENTS FOR ELECTRICAL SERVICE. WHITE RIVER VALLEY ELECTRIC COOPERATIVE SHALL FURNISH & INSTALL CABLE FROM TRANSFORMER TO DISCONNECT. CONTRACTOR SHALL PROVIDE TRENCHING & BACKFILL. CONTRACTOR SHALL FURNISH AND INSTALL A 3" RIGID GALVANIZED STEEL SWEEPS AND RISERS AND CONNECT TO DISCONNECT WITH MEYER TYPE GROUNDING HUBS. HUBS SHALL INCLUDE GROUNDING LUG SIZED TO ACCEPT 2/0 AWG COPPER CABLE OR LARGER. CONTRACTOR SHALL COORDINATE W/WHITE RIVER VALLEY ELECTRIC COOPERATIVE FOR INSTALLATION OF SERVICE. CONTACT AT WHITE RIVER VALLEY ELECTRIC COOPERATIVE IS HARRY VANDERPLOEG PHONE #(417) 335-9335.
- TRANSFORMER FURNISHED AND INSTALLED BY WHITE RIVER VALLEY ELECTRIC COOPERATIVE.
- CONTRACTOR SHALL FURNISH AND INSTALL A 30A DISCONNECT FOR OWNER FURNISHED AIR COMPRESSOR. CONTRACTOR SHALL INSTALL AND WIRE OWNER FURNISHED COMPRESSOR.
- GARAGE DOOR CONTROLLER - USE DOOR MANUFACTURERS RECOMMENDED CONTROLLERS PROTECTION EQUIPMENT. PUSHBUTTON CONTROLS SHALL BE MOUNTED 4' AFF TO TOP OF CONTROLS. ALL ELECTRICAL AND ELECTRONIC EQUIPMENT SHALL NOT BE WITHIN 18" OF THE FLOOR. CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING NECESSARY FOR CONTROLLER.
- SURFACE MOUNT RECEPTACLES 48" ABOVE FINISHED FLOOR. EACH QUADRAPLEX RECEPTACLE SHALL HAVE AN INDIVIDUAL GFCI RECEPTACLE.
- CONTRACTOR SHALL FURNISH AND INSTALL THERMOSTATS AND WIRING IN CONDUIT, SEE MECHANICAL DRAWINGS AND SPECIFICATIONS.
- FURNISH AND INSTALL A HUBBEL PIN AND SLEEVE MECHANICAL INTERLOCK DISCONNECT SWITCH WITH ATTACHED 2 POLE, 3 WIRE RECEPTACLE, HUBBELL CAT. #HBL360MIGW & A HUBBEL PLUG CAT. #HBL360P6W. CONTRACTOR SHALL MOUNT PLUG ON WELDER FURNISHED BY OWNER. MOUNT UNIT 48" ABOVE FINISHED FLOOR TO TOP.
- NOT USED.
- CONTRACTOR SHALL FURNISH AND INSTALL A 400A METER BASE AND DISCONNECT, NEMA 3R, W/GROUND BUS AND NEUTRAL BUS AS REQUIRED TO ACCOMMODATE ALL CABLES. CONTRACTOR SHALL FURNISH AND INSTALL A SQUARE D CAT. #JQIM400CL RINGLESS METER BASE COMPLYING WITH WHITE RIVER VALLEY ELECTRIC COOPERATIVE REQUIREMENTS. LUGS SHALL BE FURNISHED AND INSTALLED TO ACCOMMODATE CABLE. TAMPER EVIDENT SEALING KIT CAT.#29375 SHALL BE FURNISHED AND INSTALLED. CONTACT AT WHITE RIVER VALLEY ELECTRIC COOPERATIVE IS HARRY VANDERPLOEG (417) 335-9335. CONTRACTOR SHALL BOND THE NEUTRAL AND GROUND, ALL CONDUIT CONNECTIONS SHALL BE MADE WITH MEYER TYPE GROUNDING HUBS. HUBS SHALL INCLUDE GROUNDING LUGS SIZED TO ACCEPT 2/0 AWG COPPER CABLE. CONTRACTOR SHALL LABEL DISCONNECT AS SERVICE DISCONNECT.
- CONTRACTOR SHALL FURNISH AND INSTALL 2-#600 KCMIL, #600 KCMIL NEUTRAL, 2/0 GND, 4" CONDUIT. ALL CONDUIT CONNECTIONS SHALL BE MADE WITH MEYER TYPE HUBS. DO NOT INSTALL THROUGH FLOOR.
- NOT USED.
- CONTRACTOR SHALL FURNISH AND INSTALL 2-CAT. 6e CABLES FROM EACH PHONE OUTLET TO THE PATCH PANEL. LOCATED IN RACK AND TERMINATE AT THE OUTLET AND AT THE PATCH PANEL. CONTRACTOR SHALL INSTALL THE CABLE IN 3/4" CONDUIT. EACH PHONE OUTLET SHALL HAVE 2-CAT6e RATED RJ-45 JACKS AND SHALL BE MOUNTED 48" ABOVE THE FINISHED FLOOR TO TOP OF OUTLET.

**GENERAL NOTES:**

- ALL CONDUIT IS 3/4" OR LARGER, UNLESS OTHERWISE NOTED.
- ALL OUTLETS SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR TO TOP OF RECEPTACLE UNLESS OTHERWISE NOTED.
- ALL SWITCHES SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR TO TOP OF SWITCH UNLESS OTHERWISE NOTED.
- EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL LABEL ALL CIRCUITS AT TERMINATION POINTS AND IN ALL JUNCTION BOXES AND LABEL ALL RECEPTACLE AND SWITCH COVERS WITH CIRCUIT DESIGNATION. CONTRACTOR SHALL ALSO LABEL ALL DISCONNECTS AS TO WHAT IT OPERATES. LABELS SHALL BE METAL OR PLASTIC ATTACHED BY STAINLESS STEEL SCREWS.
- CONTRACTOR SHALL NOT INSTALL MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS IN A RACEWAY. NEUTRALS SHALL BE COUNTED AS A CURRENT CARRYING CONDUCTOR.
- THE AREA FROM THE FLOOR UP TO 18" AFF IS A CLASS I DIV II HAZARDOUS LOCATION, DO NOT INSTALL EQUIPMENT OR CONDUIT IN THIS AREA. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE FOR ALL CABLE CONDUIT AND ELECTRICAL EQUIPMENT INSTALLED IN WORKSHOP.
- ALL PANELBOARDS, SWITCHBOARDS, LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT. MARKING SHALL BE SELF ADHESIVE COMMERCIAL LABEL CONFORMING TO N.E.C. 110.16.
- ALL RECEPTACLES IN WORK BAYS SHALL BE SURFACE MOUNTED. ALL CONDUITS SHALL BE RUN HORIZONTALLY ABOVE IN ATTIC. ALL CONDUIT RUNS IN WORK AREAS AND STORAGE AREAS SHALL BE VERTICAL.
- CONTRACTOR SHALL USE UNISTRUT P1000 SERIES OR EQUAL TO MOUNT ENCLOSURES AND PANELBOARDS TO WALLS.
- CONTRACTOR SHALL LABEL DISCONNECT ON OUTSIDE OF BUILDING AS SERVICE DISCONNECT. LABEL SHALL BE UV RESISTANT AND SHALL BE PLACED ON THE INSIDE AND OUTSIDE OF DISCONNECT.



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**SHEPHERD OF THE HILLS FISH HATCHERY**

STORAGE BUILDING IMPROVEMENTS

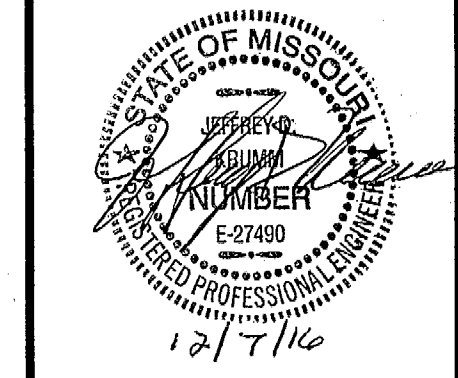
TANEY COUNTY

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CAD DWG FILE: 56-01-64-E-104.dwg		
DRAWN BY: JMT		
DESIGNED BY: JDK		
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SHEET TITLE		

**WORKSHOP POWER WIRING PLAN**

**E-103**  
SHEET 28 OF 30

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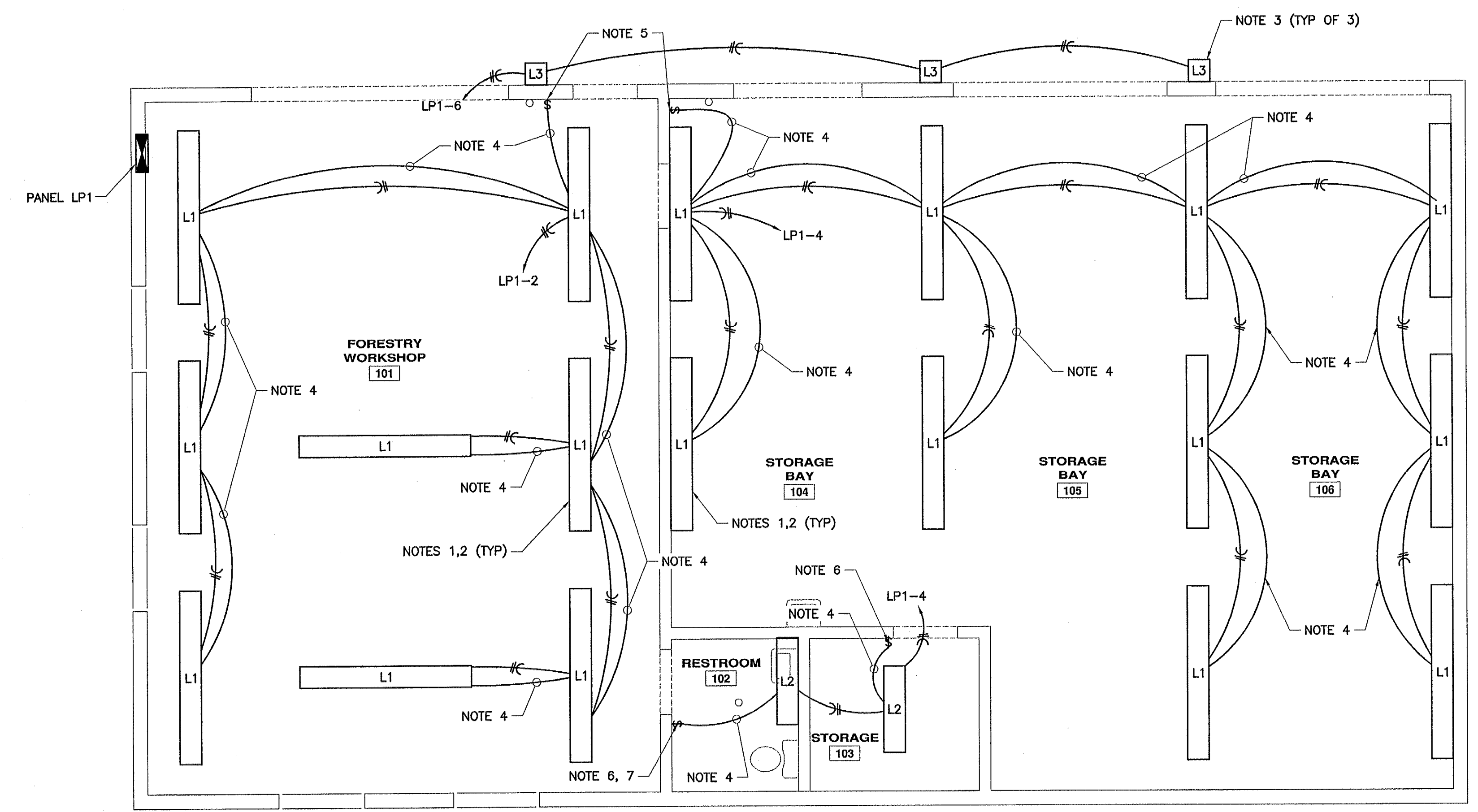
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TANEY COUNTY

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CAD DWG FILE: 56-01-64\_E-105.dwg  
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DESIGNED BY: JDK  
CHECKED BY:  
SHEET TITLE

**WORKSHOP LIGHTING PLAN**



**2 WORKSHOP LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

**NOTES:**

- CONTRACTOR SHALL MOUNT LIGHT FIXTURE TO UNISTRUT P1000 SERIES AND MOUNT UNISTRUT TO CEILING.
- CONTRACTOR SHALL MOUNT LIGHT FIXTURES 12'-6" MINIMUM ABOVE THE FINISHED FLOOR TO BOTTOM OF FIXTURE.
- MOUNT LIGHT FIXTURE 10'-0" ABOVE GRADE.
- CONTRACTOR SHALL FURNISH AND INSTALL CAT 5e CABLE, WHITE IN COLOR. CONTRACTOR SHALL FURNISH AND INSTALL UNBOOTED RJ-45 MALE ENDS ON CABLE AND TEST CABLE, CABLE SHALL BE INSTALLED IN CONDUIT.
- CONTRACTOR SHALL FURNISH AND INSTALL A WALL MOUNTED SWITCH, SENSORSWITCH CAT.#PODMX. MOUNT 48" ABOVE FINISHED FLOOR TO TOP OF SWITCH.
- CONTRACTOR SHALL FURNISH AND INSTALL A WALL MOUNTED OCCUPANCY SENSOR, SENSORSWITCH CAT.#NWSXLV. MOUNT 48" ABOVE FINISHED FLOOR TO TOP OF SWITCH.
- CONTRACTOR SHALL FURNISH AND INSTALL A SENSOR SWITCH POWER SUPPLY CAT. #NPP16 TO PROVIDE POWER TO EXHAUST FAN, CONTRACTOR SHALL FURNISH AND INSTALL A CAT 5e CABLE FROM OCCUPANCY SENSOR TO POWER PACK.

**GENERAL NOTES:**

- EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL SHARED NEUTRALS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL NOT INSTALL MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS IN A RACEWAY. NEUTRALS SHALL BE COUNTED AS A CURRENT CARRYING CONDUCTOR.
- ALL CONDUIT IS 3/4" OR LARGER, UNLESS OTHERWISE NOTED.
- ALL OUTLETS SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR TO TOP OF RECEPTACLE UNLESS OTHERWISE NOTED.
- ALL SWITCHES SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR TO TOP OF SWITCH UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL LABEL ALL CIRCUITS AT TERMINATION POINTS AND IN ALL JUNCTION BOXES.
- CONTRACTOR SHALL LABEL ALL CIRCUITS AT TERMINATION POINTS AND IN ALL JUNCTION BOXES AND LABEL ALL RECEPTACLES AND SWITCHES WITH CIRCUIT DESIGNATION.
- THE AREA FROM THE FLOOR UP TO 18" AFF IS A CLASS I DIV II HAZARDOUS LOCATION, DO NOT INSTALL EQUIPMENT OR CONDUIT IN THIS AREA. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE FOR ALL CABLE CONDUIT AND ELECTRICAL EQUIPMENT INSTALLED IN MAINTENANCE BUILDING.



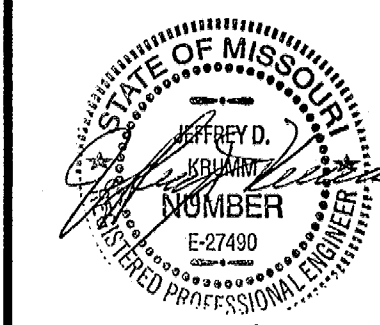
DESIGN AND DEVELOPMENT

MISSOURI DEPARTMENT OF CONSERVATION

P.O. BOX 180, JEFFERSON CITY, MO 65102

(573) 522-4115 www.mdc.mo.gov

ELECTRICAL PANEL LP1 SCHEDULE												
VOLTS/PHASE/WIRE: 120/240V 1 PHASE 3 WIRE			FULLY RATED 22,000 AIC			MAIN: 400A MLO W/400A FEED THROUGH LUGS			ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: FORESTRY WORKSHOP 101		NOTES: SHALL INCLUDE TVSS	
CKT	POLE	BKR	LOAD DESCRIPTION	KVA	POLE	KVA	LOAD DESCRIPTION	BKR	POLE	CKT		
1	1	20A	RECEPTACLE: FORESTRY WORKSHOP 101	0.72	A	0.80	LIGHTS: FORESTRY WORKSHOP 101	20A	1	2		
3	1	20A	RECEPTACLE: FORESTRY WORKSHOP 101	0.72	B	1.00	LIGHTS: STORAGE BAYS 104, 105, 106	20A	1	4		
5	1	20A	RECEPTACLE: FORESTRY WORKSHOP 101	0.72	A	0.13	LIGHTS: EXTERIOR	20A	1	6		
7	1	20A	RECEPTACLE: FORESTRY WORKSHOP 101	0.72	B	2.00	WATER HEATER	25A	1	8		
9	1	20A	RECEPTACLE: FORESTRY WORKSHOP 101	0.72	A	11.40	WELDER	60A	2	10		
11	1	20A	RECEPTACLE: FORESTRY WORKSHOP 101	0.36	B					12		
13	1	20A	RECEPTACLE: STORAGE BAY 104	0.72	A					14		
15	1	20A	RECEPTACLE: STORAGE BAY 105	0.72	B		TVSS	60A	2	16		
17	1	20A	RECEPTACLE: STORAGE BAY 106	0.72	A	1.00	BASEBOARD HEATER - RESTROOM 102	15A GFCI	1	18		
19	1	20A	RECEPTACLE: STORAGE BAYS 105 & 106	0.72	B	0.18	RECEPTACLE RACK	20A	1	20		
21	1	20A	RECEPTACLE: RESTROOM	0.18	A		SPARE	20A	1	22		
23	1	20A	RECEPTACLE: STORAGE ROOM	0.54	B					24		
25	1	30A	COMPRESSOR	1.63	A	11.4	WELDER	60A	2	26		
27	1	15A GFCI	OVERHEAD DOOR	0.86	B		SPARE	20A	1	28		
29	2	30A	UNIT HEATER UH-1	5.04	A		SPARE	20A	1	30		
31	2	30A	UNIT HEATER UH-1	5.04	B		SPARE	20A	1	32		
33	1	20A	BASEBOARD HEATER	1.00	A		SPARE	20A	1	34		
35	2	30A	UNIT HEATER UH-2	5.04	B		SPARE	20A	1	36		
37	1	15A	SPARE		A		SPARE	15A	1	38		
39	1	15A	SPARE		B		SPARE	15A	1	40		
41	1	20A	SPARE		A		SPARE	15A	1	42		
TOTAL CONNECTED LOAD 49.04												



12/11/16

JEFFREY D. KRUMM  
ELECTRICAL ENGINEER  
E-27490

SHEPHERD OF  
THE HILLS FISH  
HATCHERY

STORAGE BUILDING  
IMPROVEMENTS

TANEY COUNTY

LIGHT FIXTURE SCHEDULE						
MARK	DESCRIPTION	LAMPS			MFG. AND CATALOG NO.	REMARKS
		TYPE	NO	VOLTS		
L1	LED STRIPLIGHT	LED	-	120V	LITHONIA ZL1NLEDL96FSTMVOLT35K80CRIWHNPP16D	
L2	LED SURFACE	LED	-	120V	LITHONIA WL420LEZ1LP835N100	
L3	WALL PACK	LED	2	120V	LITHONIA OFLR6LC120MOBZ	W/PHOTOCELL

MARK	DATE	ISSUED	DESCRIPTION
0	12/6/16	ISSUED	

PROJECT NO: 56-01-64

CAD DWG FILE:  
56-01-64\_E-601.dwg

DRAWN BY: JMT

DESIGNED BY: JDK

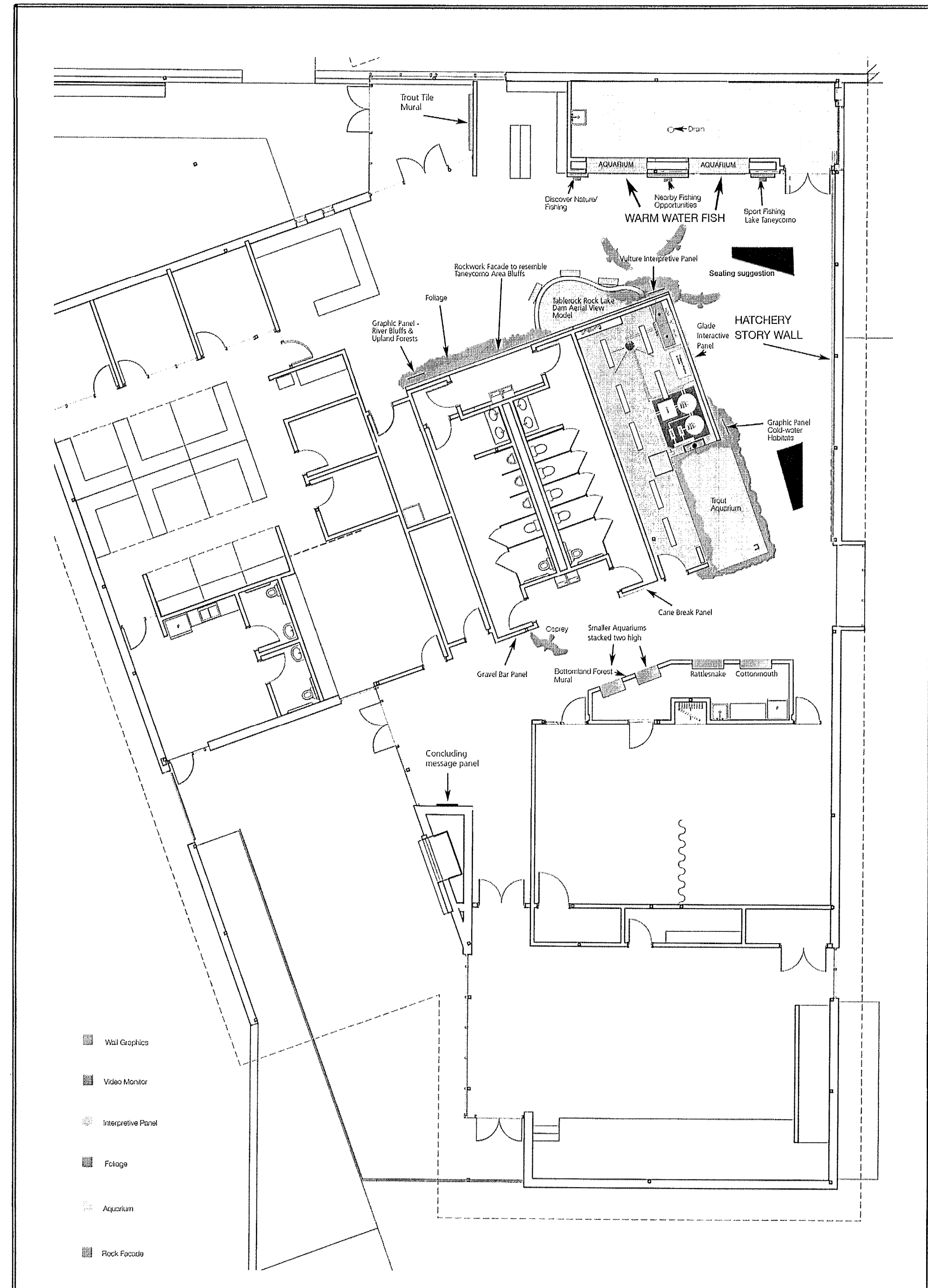
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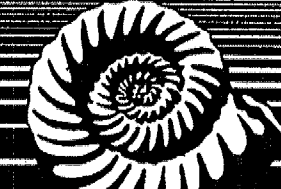
SHEET TITLE

**WORKSHOP  
ELECTRICAL  
SCHEDULES**

**E-601**

SHEET 30 OF 30



 <p>DESIGNERS AND BUILDERS OF NATURAL HISTORY AND ENVIRONMENTAL SCIENCE EXHIBITS</p>	<p>client MISSOURI DEPARTMENT OF CONSERVATION</p>
	<p>project SHEPHERD OF THE HILLS HATCHERY VISITOR CENTER</p>
<p>drawn by BW</p>	<p>date 6/8/2015</p>
<p>scale</p>	<p>job #</p>
<p>file #</p>	<p>version</p>
<p>extension</p>	<p>shop approval</p>
<p>page 1</p>	

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DAKE | WELLS  
architecture

134 Parkersburg, Missouri 65608  
P. 417.851.8804  
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**SHEPHERD OF THE HILLS CONSERVATION  
NATURE CENTER AND FISH HATCHERY**

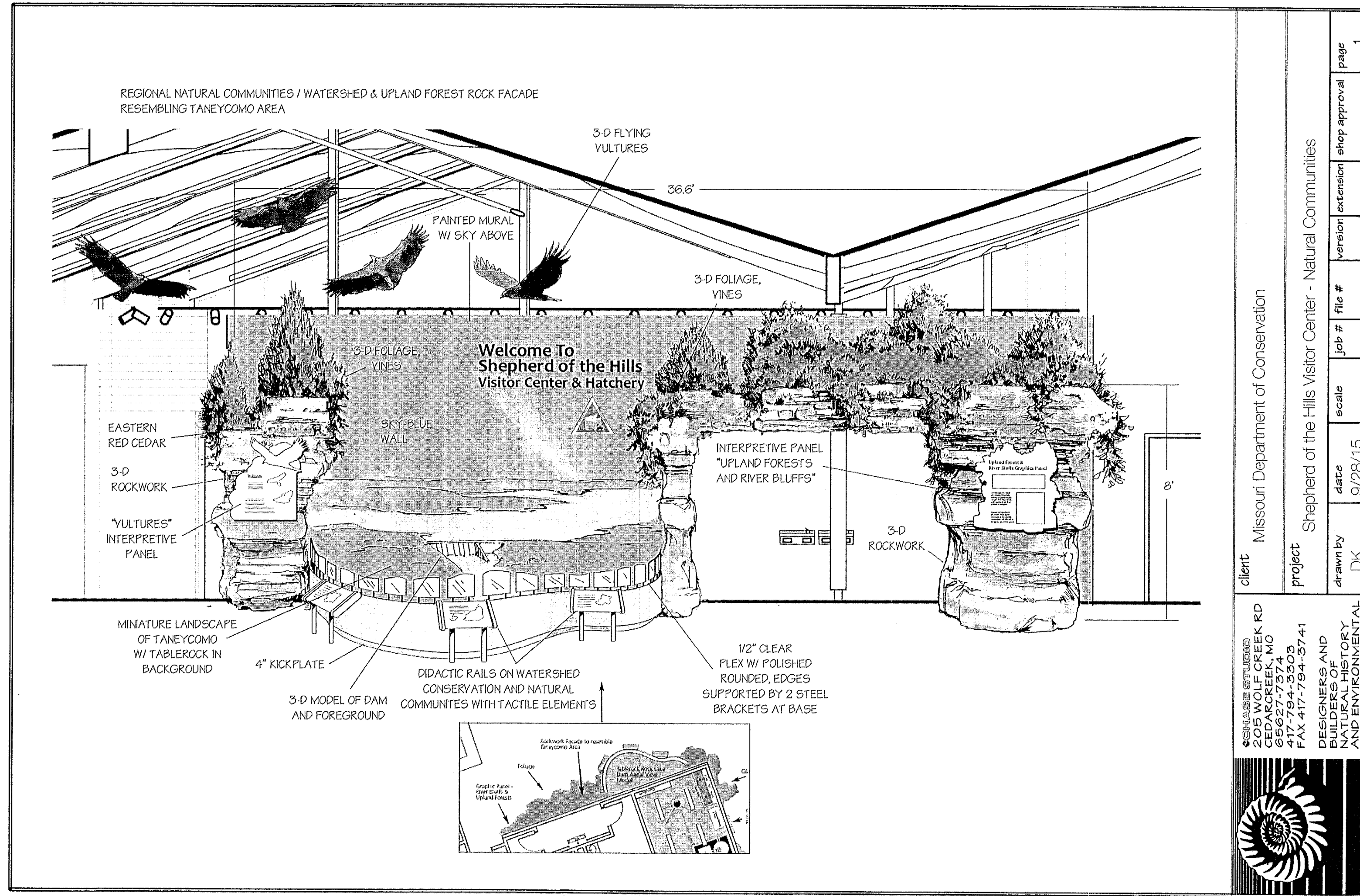
MISSOURI DEPARTMENT OF CONSERVATION  
Hatchery Road  
Branson, MO 65616

Issued:	10.27.16
Revised:	
Scale:	AS NOTED
Drawn:	
Checked:	
Job:	14023

**EX1.1**  
Plotted On: 10/26/16

EXHIBIT PLAN



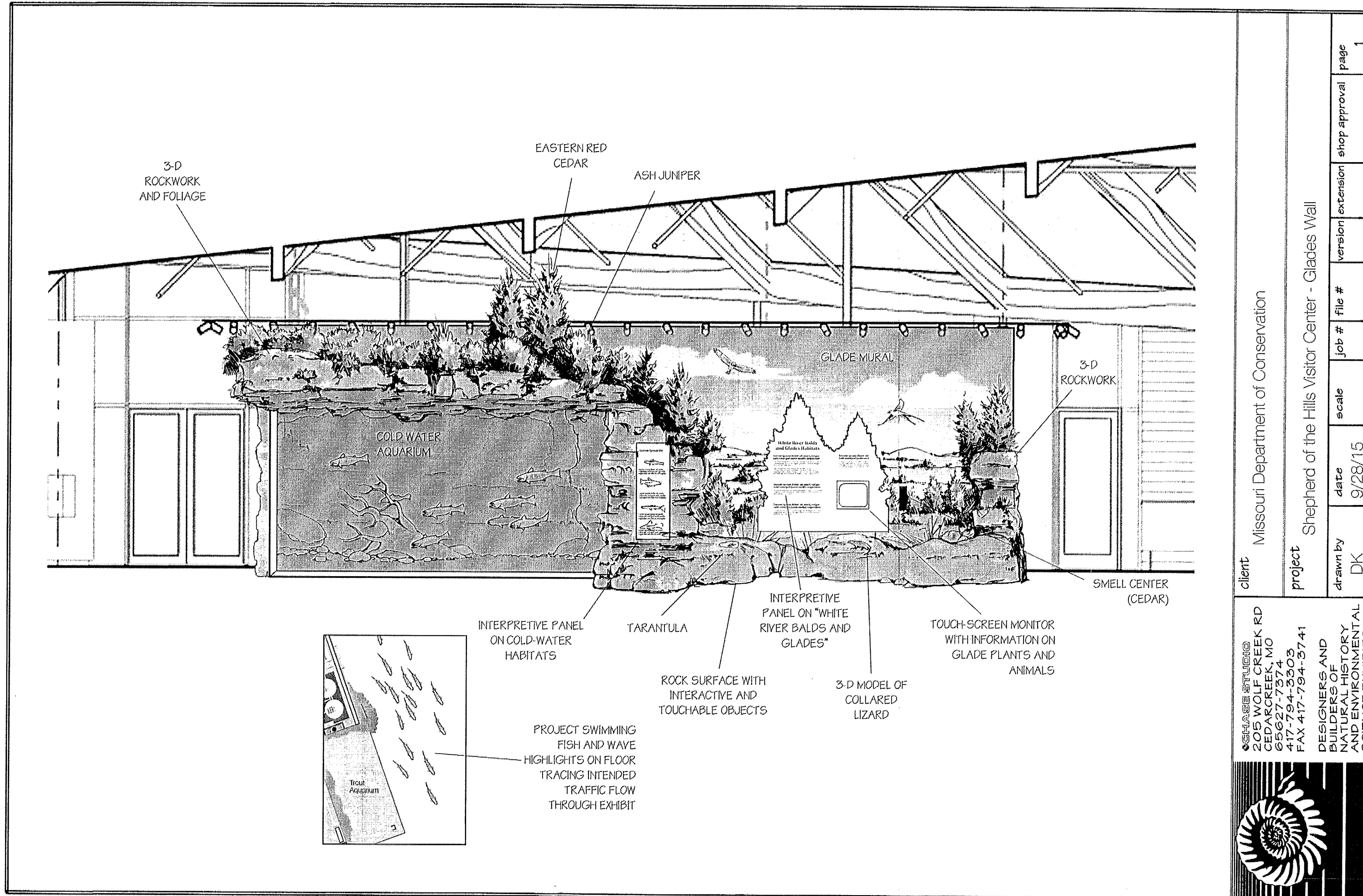


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client Missouri Department of Conservation  
 project Shepherd of the Hills Visitor Center - Natural Communities  
 drawn by DK  
 date 9/28/15  
 scale  
 version extension ehop approval  
 job # file #  
 page 1

DESIGNERS AND BUILDERS OF NATURAL HISTORY AND ENVIRONMENTAL SCIENCE EXHIBITS

205 WOLF CREEK RD  
 CEDARS SPRING, MO  
 65627-7574  
 417-794-3509  
 417-794-3503  
 FAX 417-794-3741



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client Missouri Department of Conservation  
 project Shepherd of the Hills Visitor Center - Glades Wall  
 drawn by DK  
 date 9/28/15  
 scale  
 version extension ehop approval  
 job # file #  
 page 1

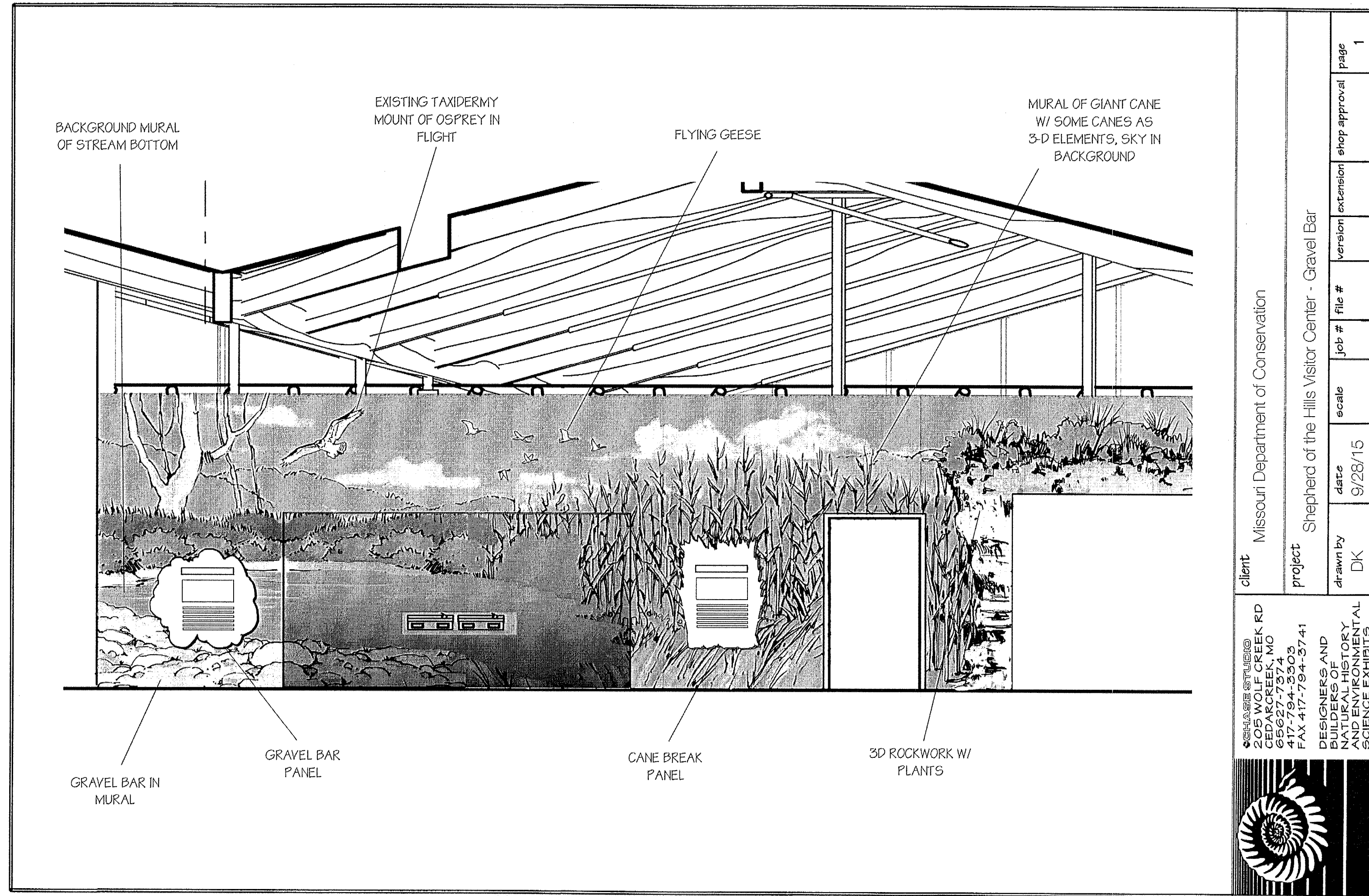
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 CEDARS SPRING, MO  
 65627-7574  
 417-794-3509  
 417-794-3503  
 FAX 417-794-3741

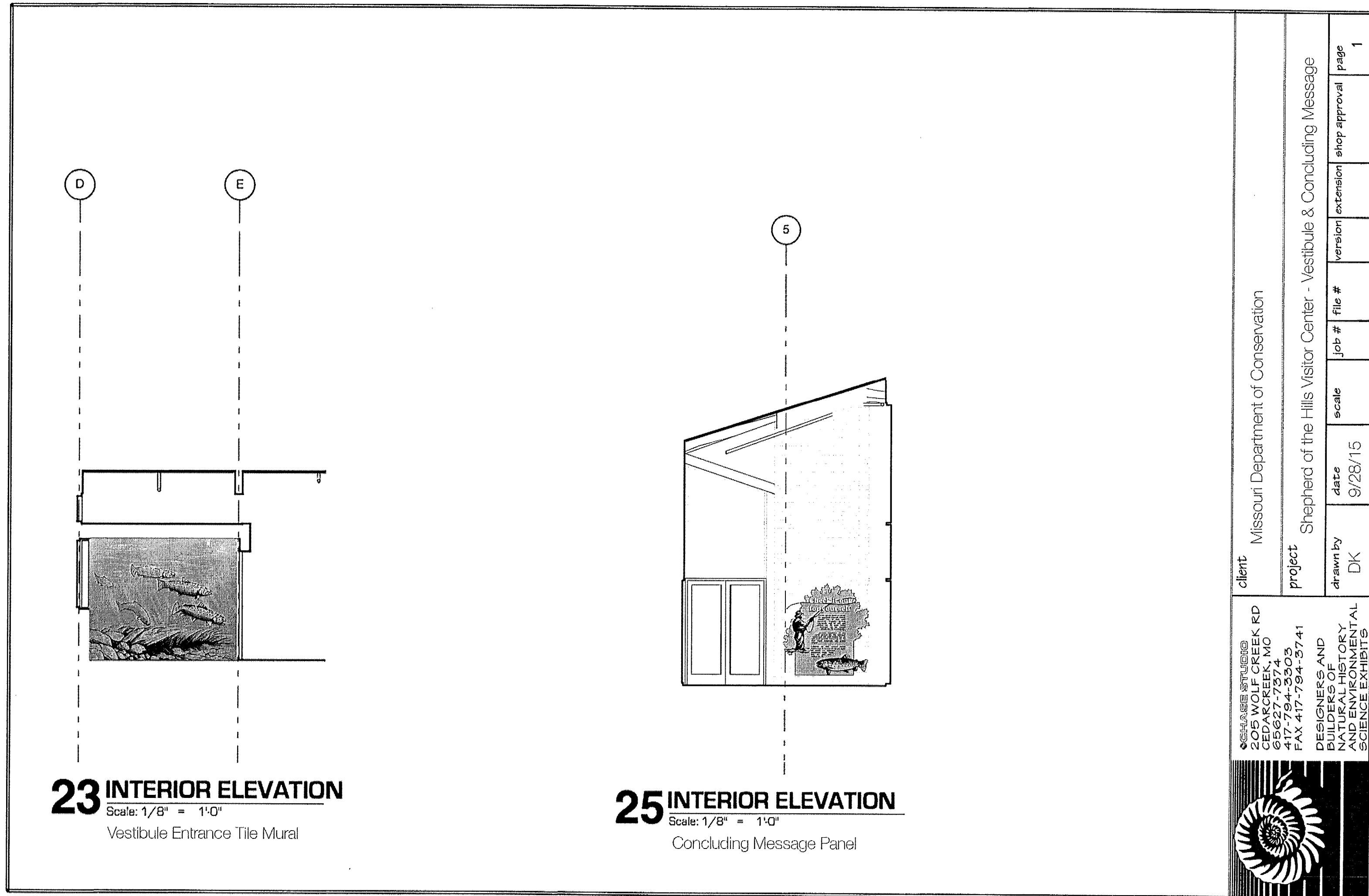
**SHEPHERD OF THE HILLS CONSERVATION  
 NATURE CENTER AND FISH HATCHERY**

MISSOURI DEPARTMENT OF CONSERVATION  
 Hatchery Road  
 Branson, MO 65616

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MISSOURI DEPARTMENT OF CONSERVATION  
 205 WOLF CREEK RD  
 CEDAR CREEK, MO  
 65627-7374  
 FAX 417-794-3741

DESIGNERS AND BUILDERS OF NATURAL HISTORY SCIENCE EXHIBITS

client Missouri Department of Conservation  
 project Shepherd of the Hills Visitor Center - Gravel Bar  
 drawn by DK  
 date 9/28/15  
 scale  
 job #  
 file #  
 version extension  
 shop approval  
 page 1

MISSOURI DEPARTMENT OF CONSERVATION  
 205 WOLF CREEK RD  
 CEDAR CREEK, MO  
 65627-7374  
 FAX 417-794-3741

DESIGNERS AND BUILDERS OF NATURAL HISTORY SCIENCE EXHIBITS

client Missouri Department of Conservation  
 project Shepherd of the Hills Visitor Center - Vestibule & Concluding Message  
 drawn by DK  
 date 9/28/15  
 scale  
 job #  
 file #  
 version extension  
 shop approval  
 page 1

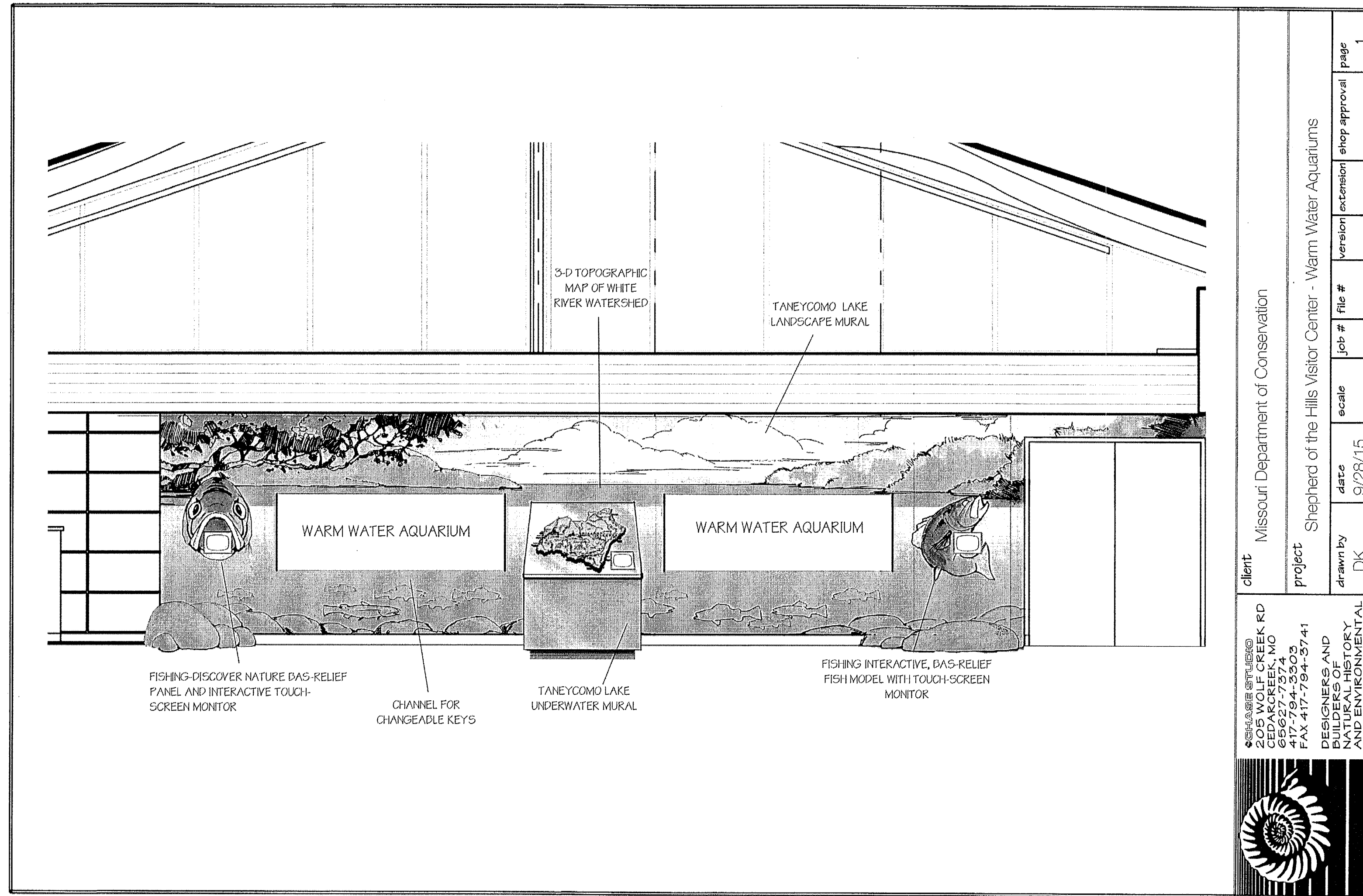
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 NATURE CENTER AND FISH HATCHERY**  
 MISSOURI DEPARTMENT OF CONSERVATION  
 Hatchery Road  
 Branson, MO 65616

Issued:	10.27.16
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Scale:	AS NOTED
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Checked:	
Job:	14023

**EX2.2**

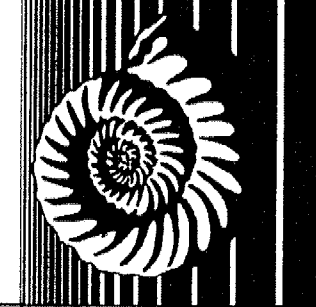
EXHIBIT ELEVATIONS

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 architecture  
 104 Park Central Square, Suite 300  
 Springfield, MO 65806  
 P. 417.851.8504  
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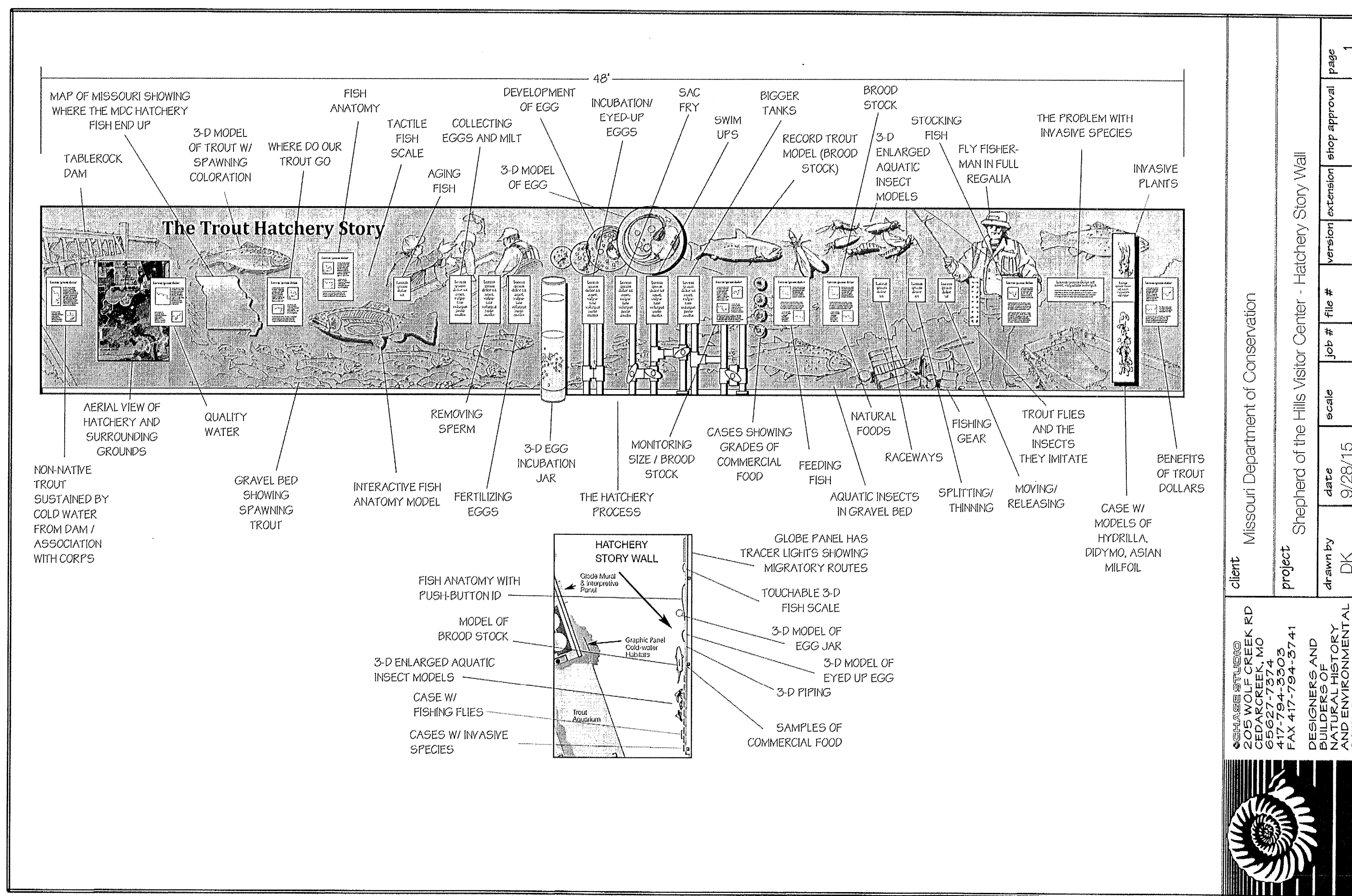


client	Missouri Department of Conservation
project	Shepherd of the Hills Visitor Center - Warm Water Aquariums
drawn by	DK
date	9/28/15
scale	
job #	File #
version	extension
shop approval	page
	1

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 CEDAR CREEK, MO  
 65616  
 417-794-3303  
 417-794-3741  
 FAX 417-794-3741

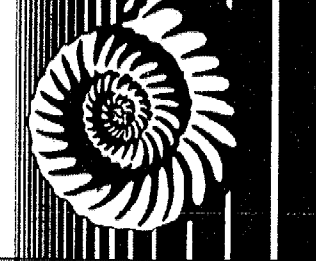


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client	Missouri Department of Conservation
project	Shepherd of the Hills Visitor Center - Hatchery Story Wall
drawn by	DK
date	9/28/15
scale	
job #	File #
version	extension
shop approval	page
	1

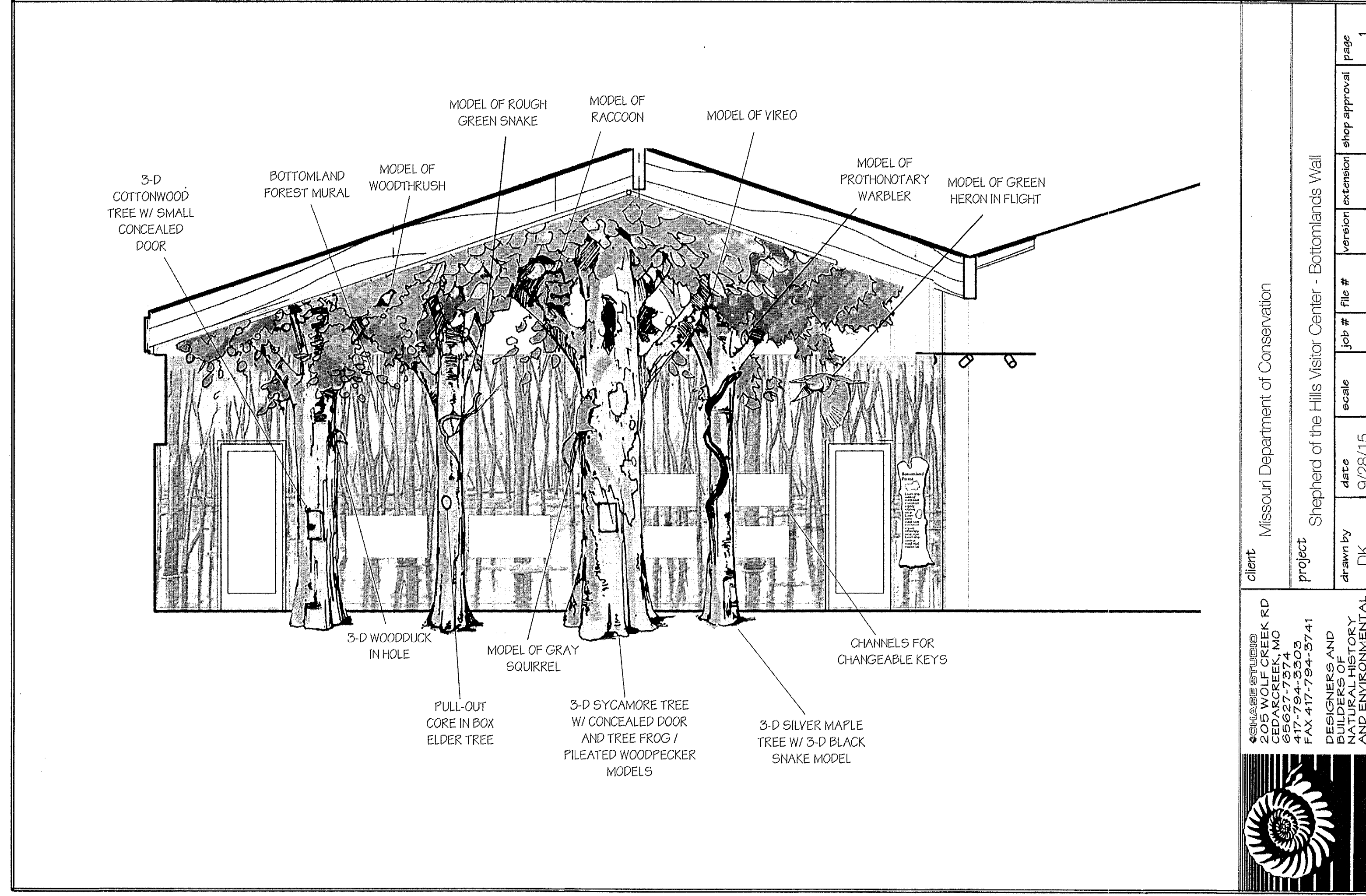
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 417-794-3741  
 FAX 417-794-3741



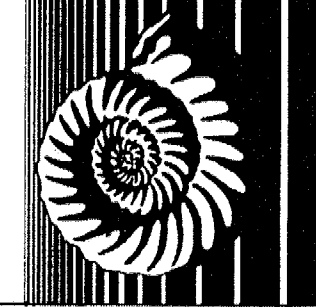
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**SHEPHERD OF THE HILLS CONSERVATION NATURE CENTER AND FISH HATCHERY**  
 MISSOURI DEPARTMENT OF CONSERVATION  
 Hatchery Road  
 Branson, MO 65616

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 CEDAR CREEK, MO  
 64601-3203  
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 FAX 417-794-3741  
 DESIGNERS AND  
 BUILDERS OF  
 INTERPRETIVE  
 AND ENVIRONMENTAL  
 SCIENCE EXHIBITS

**SHEPHERD OF THE HILLS CONSERVATION  
 NATURE CENTER AND FISH HATCHERY**

MISSOURI DEPARTMENT OF CONSERVATION  
 Hatchery Road  
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EXHIBIT ELEVATIONS

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Checked:	
Job:	14023

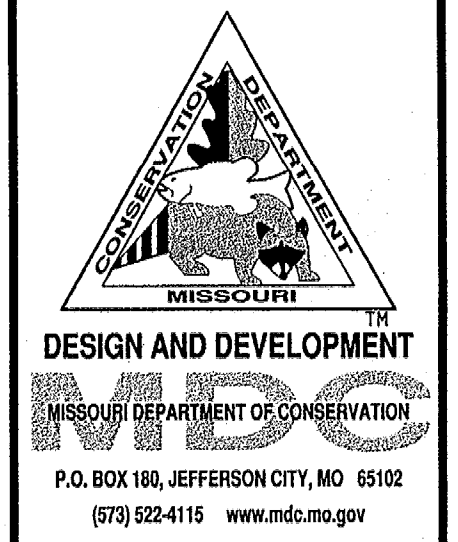
**EX2.4**

Plotted On: 10/28/16

**DAKE | WELLS**  
 architecture

184 PARK CENTRAL SQUARE, SUITE 300  
 BRANSON, MO 65616  
 P. 417.794.8804  
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# SHEPHERD OF THE HILLS FISH HATCHERY STORAGE BUILDING IMPROVEMENTS



### CIVIL LEGEND:

	EXISTING 5' MAJOR CONTOUR		SURVEY BENCHMARK
	EXISTING 1' MINOR CONTOUR		SURVEY MONUMENT
	PROPOSED 5' MAJOR CONTOUR		CONTROL POINT
	PROPOSED 1' MINOR CONTOUR		IRON PIN
	EXISTING CENTERLINE		DRILL HOLE
	PROPOSED CENTERLINE		SOIL BORING
	EDGE OF ROAD - ASPHALT		TEST PIT
	EDGE OF ROAD - CONCRETE		UTILITY BOX
	EDGE OF ROAD - GRAVEL		ELECTRIC BOX
	EDGE OF SHOULDER		UTILITY/POWER POLE
	PROPOSED NEW PROFILE		GUY WIRE POLE
	EXISTING GROUND PROFILE		LIGHT POLE
	EXISTING PROPERTY LINE		GAS VALVE
	EDGE OF WATER LINE		CATCH BASIN
	EXISTING TREE LINE		SINGLE POLE SIGN
	SLOPE DIRECTION		MANHOLE
	SLOPE LINE		SANITARY SEWER MANHOLE
	SILT FENCE		STORM SEWER/DRAIN MANHOLE
	BARB-WIRE FENCE LINE		SHRUB/VEGETATION
	CHAIN-LINK FENCE LINE		TREE STUMP
	WOOD POST FENCE LINE		TREE
	ELECTRIC LINE		EXISTING WATER HYDRANT
	OVERHEAD PRIMARY ELECTRIC LINE		PROPOSED WATER HYDRANT
	UNDERGROUND ELECTRIC LINE		WATER SHUT-OFF VALVE
	ELECTRIC & TELEPHONE LINE		WATER VALVE
	ELECTRIC & TV LINE		WELL
	UNDERGROUND FIBER OPTIC LINE		
	TELEPHONE & TV LINE		
	OVERHEAD TELEPHONE LINE		
	UNDERGROUND TELEPHONE LINE		
	TV LINE		
	GAS LINE		
	FORCE MAIN LINE		
	SANITARY SEWER LINE		
	STORM SEWER LINE		
	FLOW ARROWS		
	WATER LINE		
	TO BE REMOVED		
	CONCRETE SURFACING		
	AGGREGATE SURFACING		
	EARTH FILL		
	RIP-RAP		

### ABBREVIATIONS LEGEND:

AFF	ABOVE FINISHED FLOOR	MFG	MANUFACTURING/MANUFACTURER
ADA	AMERICANS WITH DISABILITY ACT	MAX	MAXIMUM
ALUM	ALUMINUM	MH	MAN HOLE
∠	ANGLE	MO	MASONRY OPENING
APPROX	APPROXIMATE	MR	MOISTURE RESISTANT
⊙	AT	MTL	METAL
BM	BEAM	MIN	MINIMUM
BRG HT	BEARING HEIGHT	MON	MONUMENT
BOT	BOTTOM	N	NORTHING
BLDG	BUILDING	NIC	NOT IN CONTRACT
BLK	BLOCK	NTS	NOT TO SCALE
BP	BEGINNING POINT	NO.	NUMBER
BVCE	BEGIN VERTICAL CURVE ELEVATION	OC	ON CENTER
BVCS	BEGIN VERTICAL CURVE STATION	OPNG	OPENING
CI	CAST IRON	OD	OUTSIDE DIAMETER
CLG	CEILING	⊕	PLATE STEEL
⊕	CENTERLINE	PC	POINT OF CURVATURE
C/C	CENTERLINE TO CENTERLINE	PE	POLYETHYLENE
CLR	CLEAR	PERF	PERFORATED
CO	CLEAN OUT	PI	POINT OF INTERSECTION
CONC	CONCRETE	PLWD	PLYWOOD
CFM	CUBIC FEET PER MINUTE	PNT	POINT
'CMP	CORRUGATED METAL PIPE	PP	POWER POLE
CNTRS	CENTERS	PT	POINT OF TANGENCY
CONST	CONSTRUCTION	PREF	PREFINISH
CONT	CONTINUOUS	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON	PVI	POINT VERTICAL INTERSECTION
DIA OR ∅	DIAMETER	R	RADIUS
DND	DO NOT DISTURB	RT	RIGHT
DS	DOWNSPOUT	ROWY OR WY	RACEWAY
DTL	DETAIL	REINF	REINFORCEMENT
E	EASTING	RCP	REINFORCED CONCRETE PIPE
EF	EACH FACE	RM	ROOM
EF	EXHAUST FAN	RO	ROUGH OPENING
EG	EXISTING GROUND	ROW	RIGHT OF WAY
EL OR ELEV	ELEVATION	SAN	SANITARY (SEWER)
EP	END POINT	SCH	SCHEDULE
EW	EACH WAY	SCHED	SCHEDULED
EQ	EQUAL	SECT	SECTION
EQ SP	EQUALLY SPACED	SHT	SHEET
EQUIP	EQUIPMENT	SS	STORM SEWER
EVCE	END VERTICAL CURVE ELEVATION	SS	SERVICE SINK
EVCS	END VERTICAL CURVE STATION	SS OR SST	STAINLESS STEEL
EXIST.	EXISTING	STA	STATION
EXP	EXPANSION	STL	STEEL
FFE	FINISH FLOOR ELEVATION	SQ	SQUARE
FIN	FINISH	SW	SIDE WALK
FCO	FLOOR CLEAN OUT	THK	THICK
FD	FLOOR DRAIN	TOC	TOP OF CONCRETE
FG	FINISH GRADE	TOC	TOP OF CURB
FL	FLOOR LINE	TOW	TOP OF WALL
FLR	FLOOR	TOF	TOP OF FOOTING
FT	FEET	TOFND	TOP OF FOUNDATION
GALV	GALVANIZED	TOS	TOP OF STEEL
GND	GROUND	TYP	TYPICAL
GYP BRD	GYP SUM BOARD	UNDR	UNDER
HM	HOLLOW METAL	UNO	UNLESS NOTED OTHERWISE
HB	HOSE BIB OR WALL HYDRANT	VC	VERTICAL CURVE
HOR	HORIZONTAL	VERT	VERTICAL
ID	INSIDE DIAMETER	VOL	VOLUME
IE	INVERT ELEVATION	WCO	WATER CLEAN OUT
INV	INVERT	WWF	WELDED WIRE FABRIC
INSUL	INSULATION	W/	WITH
IP	IRON PIN		
JST	JOIST		
L	LOUVER		
LT	LEFT		
LVC	LENGTH OF VERTICAL CURVE		

### APPLICABLE BUILDING CODES:

CODES AND ORDINANCES ADOPTED BY THE CITY OF BRANSON INCLUDING BUT NOT LIMITED TO:

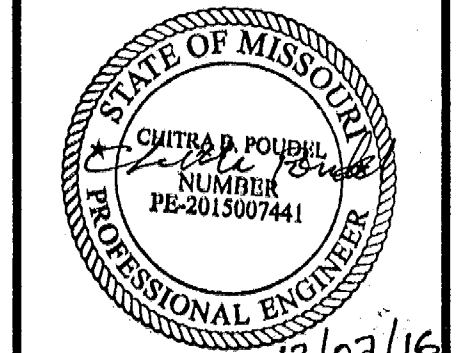
- INTERNATIONAL BUILDING CODE 2015
- INTERNATIONAL MECHANICAL CODE 2015
- INTERNATIONAL PLUMBING CODE 2015
- INTERNATIONAL FIRE CODE 2015
- NATIONAL ELECTRIC CODE 2014
- ICC/ANSI A117.1-2009
- NFPA 13

### CODE STUDY:

GROSS AREA: 2046 SQ FT  
 CONSTRUCTION TYPE: VB  
 SPRINKLED: NO  
 OCCUPANCY GROUP: U-FORESTRY WORKSHOP - 768 SQ FT  
 OCCUPANCY GROUP: S-1 - STORAGE - 1076 SQ FT  
 REQUIRED 2 HR SEPARATION BETWEEN U AND S-1 OCC.  
 ALLOWABLE AREA:  
 1 STORY (UNSPRINKLED) OCC GROUP U: 5,500 SQ FT  
 1 STORY (UNSPRINKLED) OCC GROUP S01: 9,000 SQ FT  
 ALLOWABLE AREA: 5,500 SQ FT  
 ALLOWABLE HEIGHT: 40'  
 OCCUPANCY LOAD: 15 OCCUPANTS (SEE PLAN)  
 WORKSHOP: 50 NET 768 SQ FT = 15 STORAGE: N/A  
 EGRESS  
 NUMBER OF EXITS REQUIRED: 1  
 NUMBER OF EXITS PROVIDED: 2  
 EXIT PATH < 100 FT MAX  
 MIN DOOR WIDTH: 32"  
 PLUMBING COUNTS:  
 WC 1 PER 100 REQUIRED: 1 PROVIDED (SEP FACILITIES NOT REQ'D FOR OCC OF 15 OR LESS)  
 LAV1 PER 100 REQUIRED: 1 PROVIDED (SEP FACILITIES NOT REQ'D FOR OCC OF 15 OR LESS)  
 SERVICE SINK: REQUIRED AND PROVIDED  
 DRINKING FOUNTAIN: NOT REQUIRED FOR OCCUPANCIES 15 OR FEWER  
 2902.1, F.  
 SERVICE SINK: REQUIRED AND PROVIDED

### SHEET INDEX

SHEET	SHEET ID	SHEET TITLE
0	---	COVER SHEET
1	G-001	VICINITY MAP DRAWING INDEX & LEGEND
2	G-101	GENERAL DEMOLITION & SITE PLAN
3	C-101	FIELD OFFICE DEMOLITION SITE PLAN
4	C-102	WORKSHOP SITE PLAN
5	C-103	SANITARY SEWER PLAN & PROFILE
6	C-104	WATERLINE PLAN & PROFILE
7	C-105	WATERLINE PLAN & PROFILE
8	C-106	WATERLINE PLAN & PROFILE
9	C-107	WATERLINE PLAN & PROFILE
10	C-108	WATERLINE PLAN & PROFILE
11	C-109	WATERLINE (FIRE) PLAN & PROFILE
12	C-110	WATERLINE (FIRE) PLAN & PROFILE
13	C-111	TRAFFIC CONTROL PLAN
14	C-112	EROSION CONTROL PLAN
15	C-501	SITE DETAILS
16	C-502	SITE DETAILS
17	Z-517	EROSION CONTROL DETAILS
18	A-101	WORKSHOP PLANS
19	A-201	WORKSHOP ELEVATIONS
20	A-301	WORKSHOP SECTION & DETAILS
21	A-501	DETAILS
22	A-601	SCHEDULES
23	P-101	WORKSHOP PLUMBING PLAN
24	M-101	WORKSHOP HVAC PLAN
25	E-001	ELECTRICAL LEGEND
26	E-101	ELECTRICAL SITE PLAN
27	E-102	COMMUNI-CATIONS SITE PLAN
28	E-103	WORKSHOP POWER WIRING PLAN
29	E-104	WORKSHOP LIGHTING PLAN
30	E-601	WORKSHOP ELECTRICAL SCHEDULES

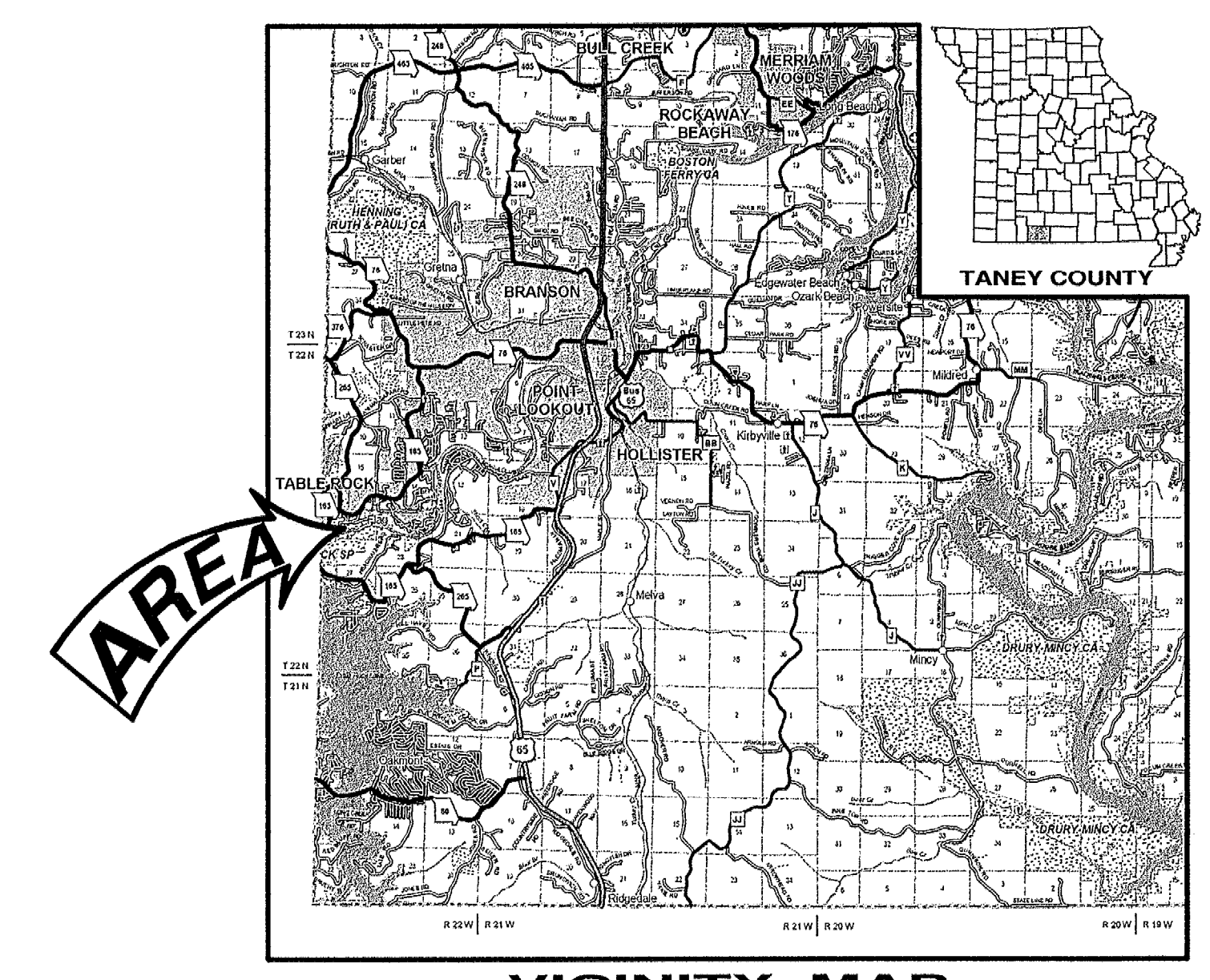
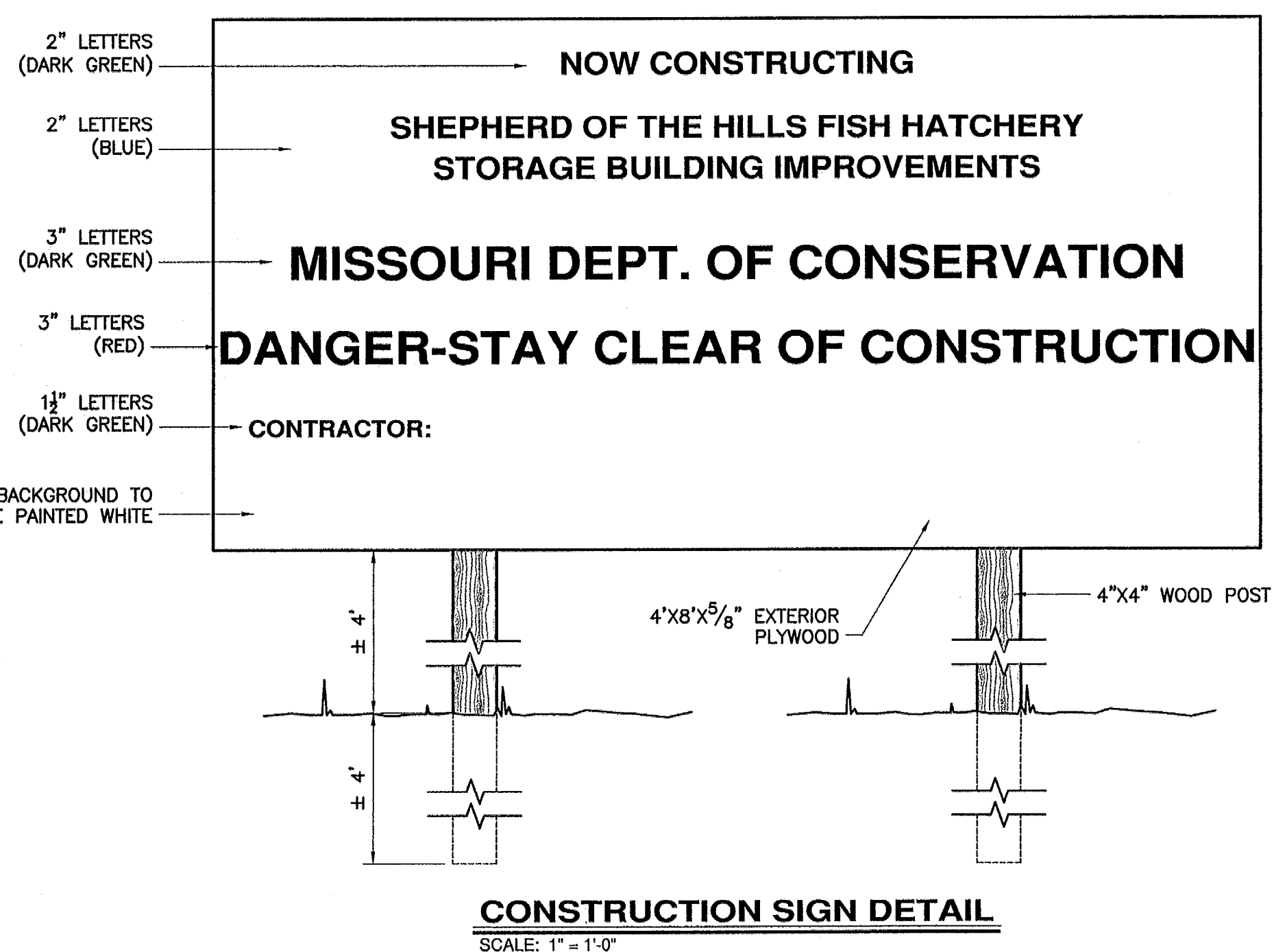


CHITRA B. POUDEH  
 CIVIL ENGINEER  
 PE-2015007441

### SHEPHERD OF THE HILLS FISH HATCHERY

STORAGE BUILDING IMPROVEMENTS

TANEY COUNTY



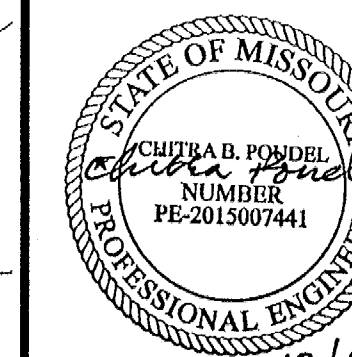
VICINITY MAP

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PROJECT NO: 56-01-64		
CAD DWG FILE: 56-01-64_G-001.dwg		
DRAWN BY: JMT		
DESIGNED BY: CBP		
CHECKED BY:		
SHEET TITLE		
VICINITY MAP DRAWING INDEX & LEGEND		
G-001		
SHEET 1 OF 30		

Path and filename: N:\Projects\56-01-64\Drawings\1\_Cover\56-01-64\_G-001.dwg Printed on 12/06/16 9:56 AM by Mike Tuler



DESIGN AND DEVELOPMENT  
MISSOURI DEPARTMENT OF CONSERVATION  
P.O. BOX 180, JEFFERSON CITY, MO 65102  
(573) 592-4115 www.mdc.mo.gov



12/07/16

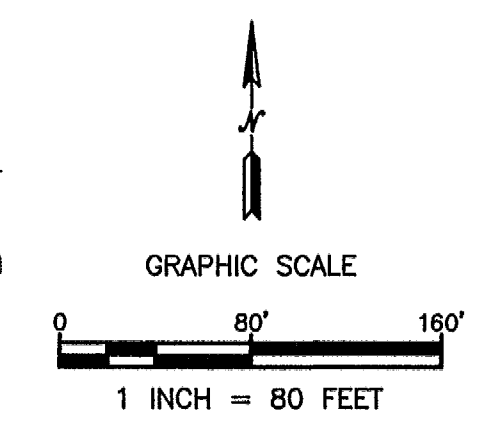
CHITRA B. POUDEL  
CIVIL ENGINEER  
PE-2015007441

JEFFREY D. KRUMM  
ELECTRICAL ENGINEER  
E-27490

**SHEPHERD OF THE HILLS FISH HATCHERY**

STORAGE BUILDING IMPROVEMENTS

TANEY COUNTY



**1 GENERAL SITE PLAN**  
SCALE: 1" = 80'

MARK	DATE	DESCRIPTION
0	12/6/16	ISSUED
		ISSUE

PROJECT NO: **56-01-64**

CAD DWG FILE: 56-01-64\_G-101.dwg

DRAWN BY: JMT

DESIGNED BY: JJK/CBP

CHECKED BY:

SHEET TITLE

**GENERAL DEMOLITION & SITE PLAN**

**G-101**

SHEET **2** OF **30**

Path and filename: N:\Projects\56-0156-01-64\Drawings\Common Files\56-01-64\_G-101.dwg Printed on: 12/06/16 9:57 AM by Mike Tuter

**PLANTING NOTES:**

- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS PERTAINING TO THE INSPECTION FOR PLANT DISEASE AND INSECT INFESTATION.
- OWNER'S REPRESENTATIVE SHALL APPROVE ALL PLANT MATERIAL AND PLACEMENT PRIOR TO INSTALLATION. CONTACT OWNER'S REPRESENTATIVE AT LEAST TWO (2) WEEKS PRIOR TO REVIEW.
- ALL TREES AND SHRUBS SHALL EQUAL OR SURPASS AMERICAN STANDARDS FOR NURSERY STOCK ANSI Z60.1, 2004 FOR SIZE AND QUALITY.
- CONTRACTOR SHALL VERIFY THE PLANT MATERIAL IS PROPERLY LABELED, IS OF PROPER SIZE, HAS A WELL DEVELOPED BRANCH AND ROOT STRUCTURE, AND IS IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN. COMPLY WITH THE FOLLOWING:
  - DO NOT PRUNE PLANT MATERIAL PRIOR TO DELIVERY WITHOUT SPECIFIC APPROVAL BY OWNER'S REPRESENTATIVE.
  - PLANTS ARE SUBJECT TO OWNER'S REPRESENTATIVE INSPECTION FOR SIZE, VARIETY, CONDITION, LATENT DEFECTS, AND INJURY AT THE PLACE OF GROWTH AND AT THE PROJECT SITE AT ANY TIME BEFORE AND DURING PROGRESS OF WORK.
  - WHEN REQUESTED BY OWNER'S REPRESENTATIVE, SHOW SAMPLES TO PROVE THAT NO ROOT BOUND CONDITIONS EXIST.
  - REMOVE REJECTED PLANTS FROM THE SITE IMMEDIATELY AND REPLACE WITH APPROVED MATERIALS.
  - REPLACEMENT PLANTS SHALL BE THE SAME TYPE AND SIZE AS ORIGINALLY PLANTED.
- SUBSTITUTIONS WILL NOT BE PERMITTED WITHOUT THE OWNER'S REPRESENTATIVE'S WRITTEN APPROVAL.
- CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE TO THE OWNER THAT ALL TREES, SHRUBS, AND PLANT MATERIALS WILL MAINTAIN VIGOROUS AND HEALTHY GROWTH FOR THE SPECIFIED GUARANTEE PERIOD, UNLESS OTHERWISE STATED.
- GUARANTEE PERIOD SHALL BEGIN UPON SUBSTANTIAL COMPLETION OF WORK AFTER SUCCESSFUL COMPLETION OF THE SPECIFIED MAINTENANCE PERIOD.
- CONTRACTOR SHALL REMOVE TAGS, LABELS, NURSERY STAKES, WIRE BASKETS OR CAGES, AND TIES FROM ALL PLANTS.
- SOIL PREPARATION, FERTILIZATION, PLANTING, AND STAKING AND GUYING SHALL CONFORM TO DETAILS AND SPECIFICATIONS.
- PLANT MATERIAL QUANTITIES ARE PROVIDED FOR PRELIMINARY COST ESTIMATE PURPOSES ONLY. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AS SHOWN ON PLANS.
- CONTRACTOR SHALL COORDINATE LOCATION OF PLANT MATERIAL WITH ALL OTHER CONTRACTORS.
- ALL PLANT PIT EXCAVATION SHALL BE PER DETAILS AND SPECIFICATIONS.
- IF PLANTING PITS ARE EXCAVATED USING A POWER AUGER, BREAK VERTICAL SIDES WITH A BALLING BAR OR SPADE TO INTERRUPT CONTINUOUS CURVE INFLUENCE ON ROOT DEVELOPMENT.
- CONTRACTOR SHALL KILL AND REMOVE ALL EXISTING WEEDS FROM SITE.
- BERMS AND SLOPES ADJACENT TO PAVEMENT TO BE GRADED PER DETAILS.
- CONTRACTOR SHALL REMOVE ALL EXCESS SOIL, CONTAMINATED SOILS, ROCKS, CLODS, AND DEBRIS AS IT ACCUMULATES ON A DAILY BASIS.
- CONTRACTOR SHALL GRADE AROUND ALL PLANTS TO FINISH GRADE UNLESS OTHERWISE NOTED.
- ALL PLANTINGS, EXCLUDING SEED AND SOD, SHALL BE HELD 3' CLEAR OF FIRE HYDRANTS.
- ALL PLANTING AREAS TO BE LAID OUT IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION.

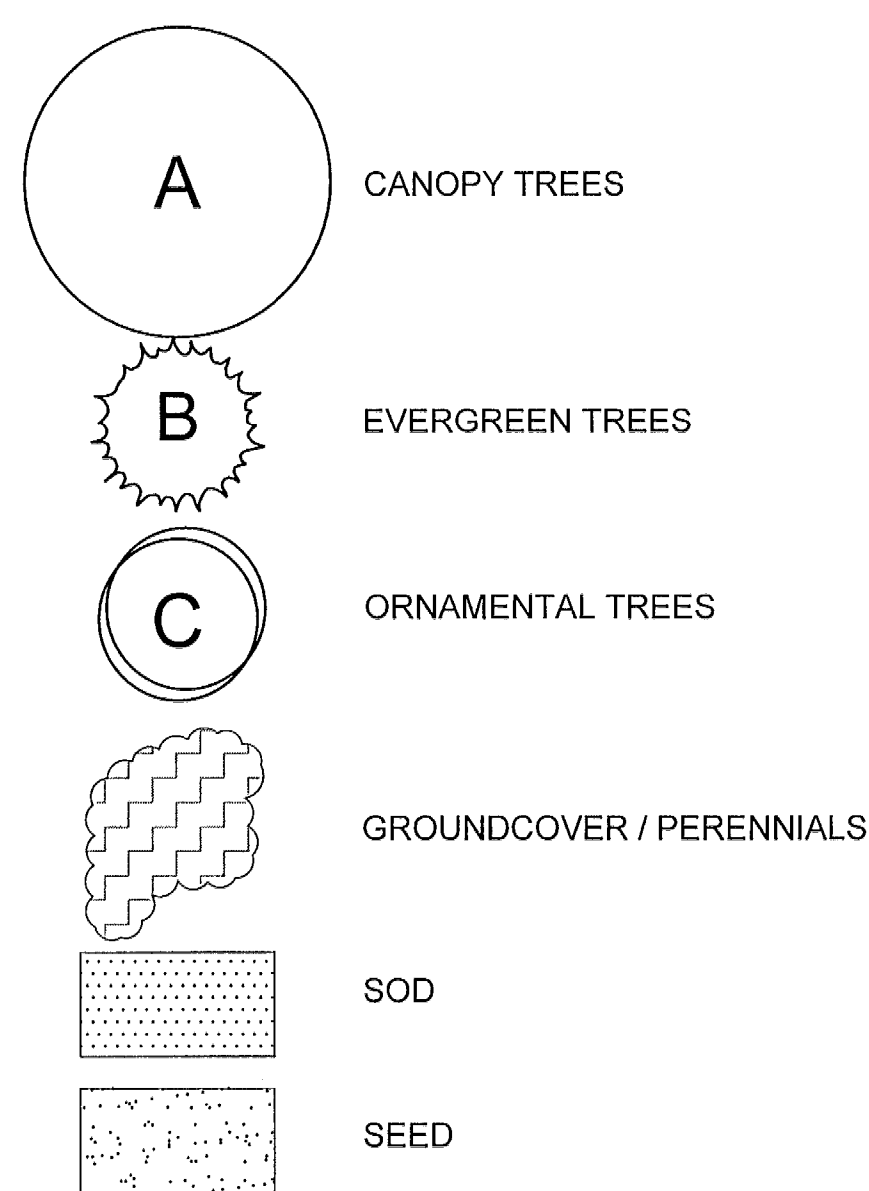
**LAYOUT NOTES:**

- DO NOT SCALE DRAWINGS. USE DIMENSIONS SHOWN.
- SITE DIMENSIONS ARE TO FACE OF CURB, PROPERTY LINE OR FACE OF BUILDING UNLESS OTHERWISE NOTED. ALL DIMENSIONS AND RADII TO OR FROM CURB LINES ARE TO FACE OF CURB.
- ALL WALKWAY SURFACES SHALL BE BELOW 5% SLOPE, 2% CROSS SLOPE AND SHALL MEET ALL ADA REQUIREMENTS, OR AS INDICATED.
- ALL EXTERIOR PAVING FINISH FLOOR ELEVATION AT BUILDING FACADE SHALL BE 1/8" MIN., 1/4" MAX. BELOW BUILDING FINISH FLOOR ELEVATION, TYP.

**GENERAL NOTES:**

- THESE NOTES PERTAIN TO ALL CONSTRUCTION AND THE FOLLOWING DOCUMENTS
- ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM THE SURVEY PROVIDED BY THE OWNER. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES, AND UTILITIES MUST BE CONSIDERED APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION AND EXISTENCE OF ANY UTILITIES NOT SHOWN. ALL UTILITIES SHALL BE LOCATED AND MARKED BOTH HORIZONTALLY AND VERTICALLY TO ENSURE CLEARANCE OF ANY PROPOSED SITE WORK. UTILITY COMPANY REPRESENTATIVES SHALL BE ON SITE DURING TIMES OF EXCAVATION IN THE VICINITY OF THEIR FACILITIES. ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS TO BE ADDRESSED TO OWNER'S REPRESENTATIVE PRIOR TO CONTINUATION OF WORK.
- ALL ELEVATIONS ARE BASED ON INFORMATION PROVIDED BY THE OWNER.
- ALL EXCAVATION, WHETHER THEY ARE UTILITY TRENCHES OR FOOTING EXCAVATIONS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "CONSTRUCTION STANDARDS FOR EXCAVATION."
- PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OWNER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
- THE CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ALL "OFF SITE" AREAS/PROPERTY AND EASEMENTS DISTURBED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL KEEP EXISTING ROADWAYS AND SIDEWALKS CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING UTILITIES PRIOR TO ANY GRADING OPERATIONS AND PROTECT THE UTILITIES DURING THIS WORK.
- CONTRACTOR TO PROVIDE SAMPLES AND MOCK-UPS OF ALL MATERIALS FOR OWNER'S REPRESENTATIVES APPROVAL. COLORS TO BE REVIEWED AND APPROVED BY OWNER. THIS SHOULD INCLUDE SAMPLES OF:
  - ALL JOINTS, SEALANTS, AND COLORS
  - STAMPED, COLORED CONCRETE PAVING
  - PLANT MATERIAL
  - BOULDERS.
- CONTRACTOR TO PROVIDE MOCK UP PER SPECIFICATIONS.
- GENERAL CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN ELECTRICAL, PLUMBING, LANDSCAPE, IRRIGATION CONTRACTORS, AND OTHER TRADES AND APPROVED BY OWNER'S REPRESENTATIVE.
- ALL BOULDERS AND PAVING TO BE LAID OUT IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION.
- DO NOT DISTURB ANY UTILITIES UNLESS NOTED OTHERWISE.
- USE OF EXPLOSIVES AND BURNING ON-SITE WILL NOT BE PERMITTED.
- SIGNS, LIGHTS, AND BARRICADES SHALL BE INSTALLED AT LOCATIONS NECESSARY TO MAINTAIN A SAFE WORK SITE CONDITION AS DIRECTED/APPROVED BY THE OWNER AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO ACCOMPLISH THIS WORK.
- ALL QUESTIONS REGARDING THESE CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE OWNER'S REPRESENTATIVE.

**LEGEND**



1

**CONCRETE WALK**  
 6" THICK CONCRETE PAVING, LIGHT BROOM FINISH. EDGES TO BE 1/2" TOOLED RADIUS. SAW CUT JOINTS. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH OWNER'S REPRESENTATIVE. PER SPECIFICATIONS. SEE DETAILS A, B, C/L-510.

2

**SPECIALTY PAVING**  
 PER ARCHITECTURAL. SEE SHEET A0.2.

3

**NATURAL STONE STEPS**  
 REGIONAL LIMESTONE LEDGEROCK STEPS. SEE DETAIL C/L-512

4

**PEDESTRIAN BRIDGE**  
 20' STEEL BRIDGE STRUCTURE WITH ADA COMPLIANT STEEL GRATE DECKING AND STEEL GUARDRAIL. GUARDRAIL FEATURES WIRE PANEL INSERTS EQUAL TO OMEGA FENCING. FINISHES: STEEL: GALVANIZED AND SEALED. SEE DETAIL G/L-510.

5

**AMPHITHEATER LANDING**  
 5" COLOR CONDITIONED STAMPED CONCRETE PAVING (SCOFIELD CHROMIX ADMIXTURE C21 - ADOBE TAN AND ANTIQUING RELEASE AGENT WITH LITHOTEX STAMP FRACTURED EARTH/EMBOSSING SKIN OR EQUAL). ANTIQUING RELEASE AGENT TO BE DETERMINED. COLOR TO COMPLEMENT NATIVE SOIL. INCORPORATE LEAF IMPRINTS/TWIGS WITH REGIONAL PLANT MATERIAL AND GRAVEL. COORDINATE WITH OWNER REPRESENTATIVE. SEE DETAIL G/L-510.

6

**AMPHITHEATER SEAT WALL**  
 SOLID LIMESTONE BLOCK SEAT WALL. DIMENSIONALLY CUT TOP, BOTTOM AND SIDES. EXPOSED FACE, SPLIT. TOP/MEDIUM SANDBLAST. 1/4" BEVEL ON ALL CUT EDGES. SIZE: 18"H x 24"D x 36"L. SEE DETAIL C&D/L-400. SEE SHEET L-400.

7

**AMPHITHEATER STAIRS**  
 PRECAST CONCRETE STEPS. SPLIT FACE APPEARANCE. INTEGRALLY COLORED TO MATCH LIMESTONE WALLS. COLOR: OZARK BLEND. SEE DETAIL E/L-400.

8

**SMALL CULVERT**  
 SEE CIVIL DRAWINGS FOR CULVERT DETAILS. PIPE TO BE DISGUISED WITH WEATHERED REGIONAL LIMESTONE LEDGE ROCK. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL B/L-512.

9

**LANDSCAPE BOULDERS**  
 WEATHERED REGIONAL LIMESTONE BOULDERS AND LEDGE ROCKS WITH MOSS AND LICHEN. SIZE VARIES: 12"-36"H x 30"-36"D x 24"-60"L. SEE DETAIL D/L-510.

10

**STACKED LIMESTONE BOULDERS**  
 WEATHERED REGIONAL LIMESTONE LEDGE ROCKS. STACKED TO HEIGHT AS INDICATED ON PLANS & DETAILS. LAYOUT PER PLANS. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL D/L-511.

11

**LIMESTONE WEIR**  
 WEATHERED REGIONAL LIMESTONE BOULDERS. LAYOUT PER PLANS. SIZE VARIES: 12"-24"H x 12"-24"D x 24"-36"L. SEE DETAILS B, C/L-511.

12

**BRIDGE ABUTMENTS VENEER**  
 WEATHERED REGIONAL LIMESTONE LEDGE ROCKS. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL G/L-510.

13

**CIRCULAR PLANTER**  
 7' DIAMETER PLANTER. SEE DETAIL F/L-510

14

**RIVER COBBLE STREAM BED**  
 REGIONAL OZARK STREAM COBBLES WITH RANDOMLY PLACED LIMESTONE BOULDERS. COBBLE SIZE VARIES, MIXTURE TO BE BLENDED THOROUGHLY. SEE DETAIL E/L-510.

15

**ROAD CULVERT**  
 SEE CIVIL DRAWINGS FOR CULVERT DETAILS. PIPE TO BE DISGUISED WITH WEATHERED REGIONAL LIMESTONE LEDGE ROCK. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL E/L-300 & D/L-511 & B/L-512.

16

**NATURAL PATH**  
 DECOMPOSED LIMESTONE PATH. 5' WIDE. SEE DETAIL H/L-510.

17

**NOT USED**

18

**FISHING ROCK**  
 LARGE LIMESTONE FLAT ROCK. TO BE FIELD SELECTED BY OWNER'S REPRESENTATIVE. SIZE: 18"-36"H x 6'-8"W x 6'-8"L.

19

**NOT USED**

20

**BLUE STAR MEMORIAL**  
 POLE MOUNTED BRONZE MEMORIAL PLAQUE. OWNER FURNISHED CONTRACTOR INSTALLED. LAYOUT PER PLANS.

21

**FLAG POLE**  
 3 ALUMINUM FLAG POLES WITH UPLIGHTS. SEE SITE PLAN FOR HEIGHTS. FOOTINGS PER MANUFACTURER SPECIFICATIONS

22

**NOT USED**

23

**NOT USED**

24

**BENCH**  
 EQUAL TO 6' ANOVA NEWCASTLE BACKLESS BENCH. BLACK FINISH, SEAT AND ARMS. ANCHORED IN PLACE. INSTALL PER MANUFACTURER SPECIFICATIONS.

25

**TRASH RECEPTACLE**  
 EQUAL TO ANOVA EXPOSITION 45 GAL TRASH RECEPTACLE. BLACK FINISH. ANCHORED IN PLACE. INCLUDE 30"X36" CONCRETE PAD. INSTALL PER MANUFACTURER SPECIFICATIONS.

26

**BIRDHOUSE**  
 PURPLE MARTIN HOUSE. ALUMINUM CONSTRUCTION WITH AT LEAST 6 COMPARTMENTS. POLE HEIGHT 18' FOOTINGS PER MANUFACTURER SPECIFICATION. COLOR WHITE. LOCATIONS TO BE FIELD VERIFIED BY OWNER REPRESENTATIVE AND LANDSCAPE ARCHITECT. EQUAL TO TRENDSETTER 12.

27

**BMP BRIDGE CROSSING**  
 15' STEEL BRIDGE STRUCTURE WITH ADA COMPLIANT STEEL GRATE DECKING AND EDGE PROTECTION. FINISHES: STEEL: SEALED GALVANIZED. SEE DETAIL A/L-512.

28

**6' FENCE**  
 TO BE EQUAL TO 6' OMEGA "SECUR" DOUBLE WIRE FENCE OR APPROVED EQUAL. 3"X3" POST WITH SQUARE CAPS. COLOR: BLACK. PEDESTRIAN CROSSINGS TO BE GATED WITH EQUAL TO 6' OPENING OMEGA SECUR DOUBLE WIRE DOUBLE SWING GATE. LAYOUT PER PLANS PROVIDE SHOP DRAWINGS FOR APPROVAL. INSTALL PER MANUFACTURER SPECIFICATIONS.

29

**DECORATIVE GRAVEL BAND**  
 BAND OF 1-2" DIAMETER DECORATIVE GRAVEL OF VARIOUS WIDTH AT BASE OF BUILDING RESTRAINED WITH ALUMINUM EDGE CONSTRAINT. GRAVEL TO BE REGIONAL RIVER GRAVEL. THICKNESS: 3" WITH FILTER FABRIC ON SUBGRADE.

30

**DECORATIVE CONCRETE NODES**  
 6" COLORED CONDITIONED STAMPED CONCRETE PAVING (SCOFIELD CHROMIX ADMIXTURE C21 - ADOBE TAN AND ANTIQUING RELEASE AGENT WITH LITHOTEX STAMP FRACTURED EARTH/EMBOSSING SKIN OR EQUAL). ANTIQUING RELEASE AGENT TO BE DETERMINED. COLOR TO COMPLEMENT NATIVE SOIL. INSTALL LIMESTONE BOULDERS AS SHOWN ON PLAN AND PER DETAIL D/L-510

31

**PEDESTRIAN GATE**  
 6" WIDE OMEGA "DOUBLE WIRE DOUBLE SWING GATE" FENCE OR APPROVED EQUAL. 3"X3" POST WITH SQUARE CAPS. COLOR: BLACK. PROVIDE SHOP DRAWINGS FOR APPROVAL. INSTALL PER MANUFACTURERS REQUIREMENTS.

32

**INTERPRETIVE SIGNAGE**  
 TO BE DETERMINED

33

**VEHICULAR SWING GATE**  
 MANUAL SWING GATE WITH LOCKABLE CONNECTION AND TIE BACK POSTS. COLOR: BLACK POWDER COAT FINISH. INSTALL PER MANUFACTURER SPECIFICATIONS. SUBMIT SHOP DRAWINGS FOR OWNER REPRESENTATIVE APPROVAL. SEE DETAILS F/L-401 & D, E/L-512. TO BE EQUAL TO BARRIER GATE ARM OPERATORS SWING GATE.

34

**VEHICULAR GATE**  
 16" WIDE 6' TALL TO BE EQUAL TO OMEGA "SECUR DOUBLE WIRE" FENCE. 4"X4" POST WITH SQUARE CAPS. COLOR: BLACK. PROVIDE SHOP DRAWINGS FOR APPROVAL. INSTALL PER MANUFACTURERS REQUIREMENTS.

35

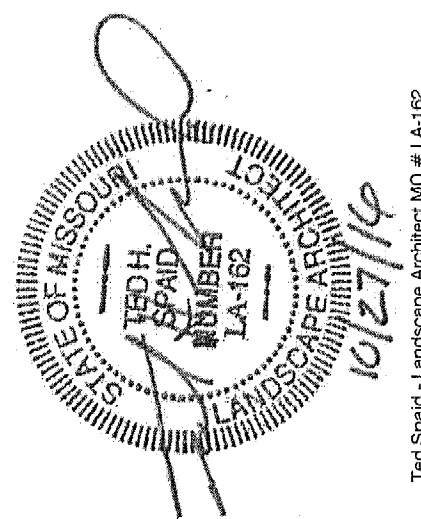
**FISH SCULPTURE**  
 WEATHERED STEEL FISH SCULPTURE. LAYOUT PER OWNER REPRESENTATIVE IN FIELD. SEE SHEETS L-401 & L-513.

35

**BIRDHOUSE**  
 POLY LUMBER BLUEBIRD HOUSE. TO BE POLE MOUNTED AT A HEIGHT OF 6'. POLE TO BE ALUMINUM WITH FOOTINGS PER MANUFACTURER SPECIFICATIONS. FINAL LOCATIONS TO BE FIELD VERIFIED BY OWNER REPRESENTATIVE AND LANDSCAPE ARCHITECT. TO BE EQUAL TO DUNCRAFT BIRD-SAFE BLUEBIRD HOUSE.

SWT DESIGN DAKE | WELLS architecture

7722 Big Bend Blvd.  
 St. Louis, MO 63119  
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 F: 314.644.5756



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NOTES AND LEGENDS

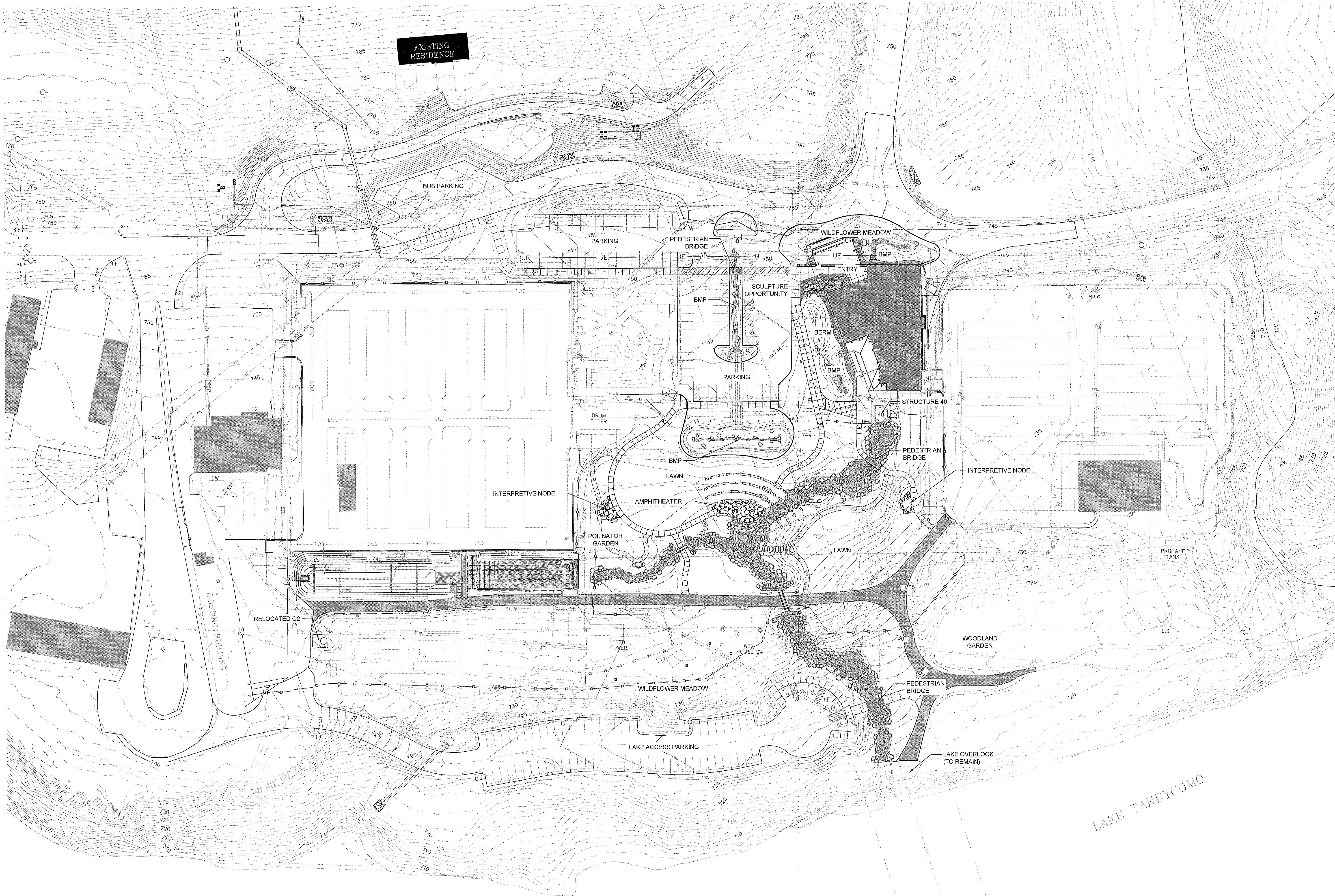
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**L-001**

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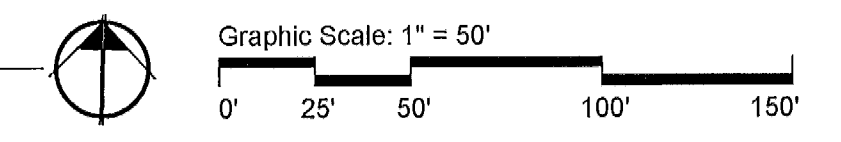
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**A** OVERALL SITE PLAN  
1" = 50'

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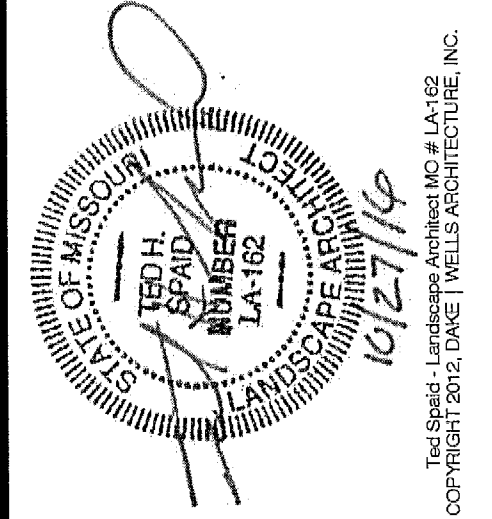
NOTIFY OWNER IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE OWNER.

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**L-100**  
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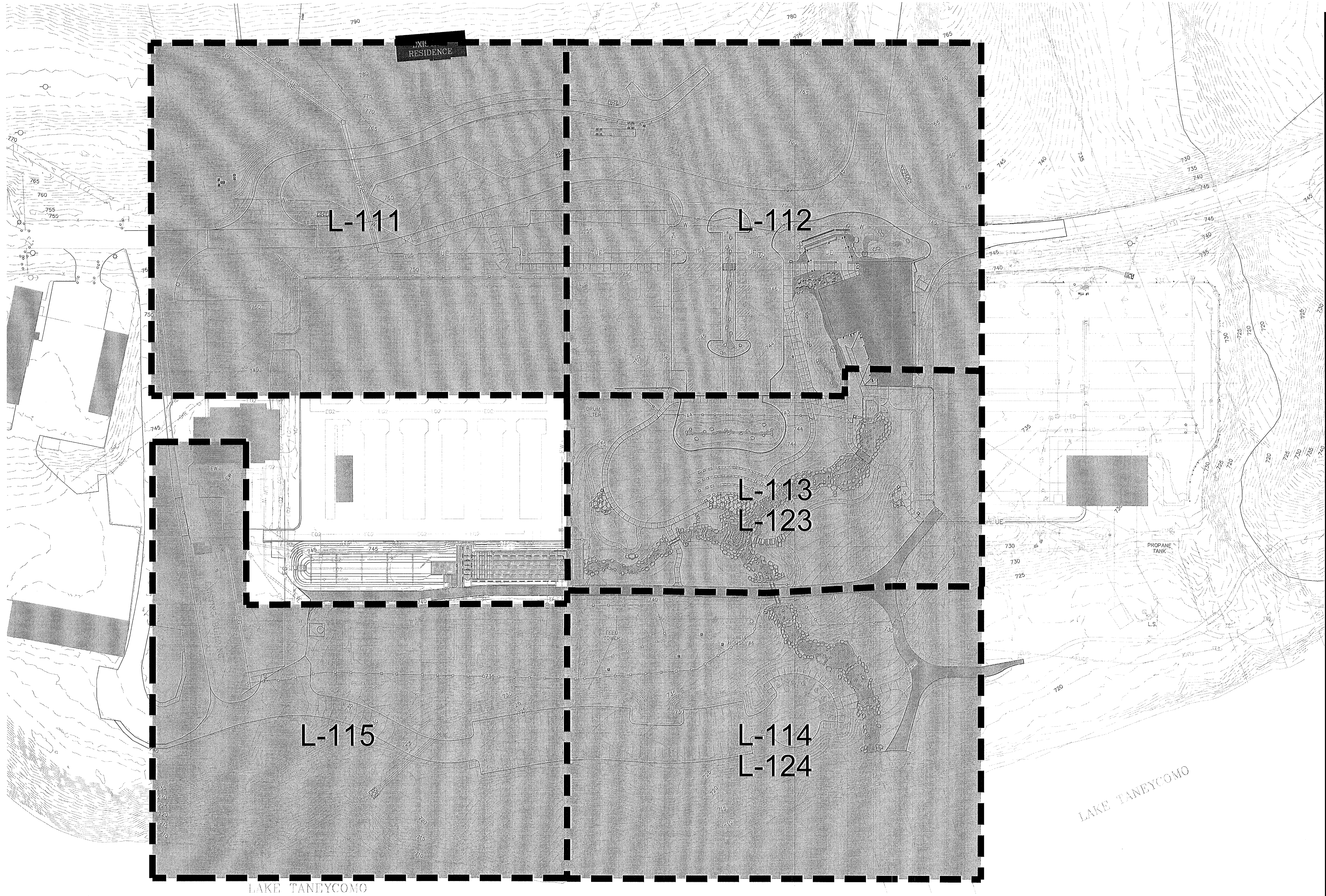
OVERALL SITE PLAN

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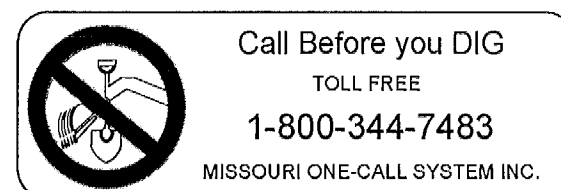


**SWT DESIGN** DAKELWELLS  
architecture  
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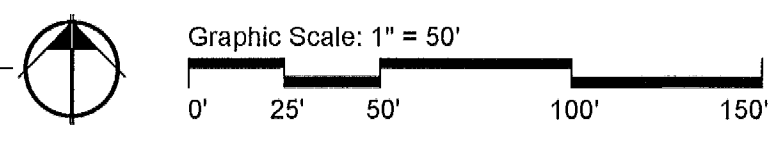




**A** LAYOUT KEY PLAN  
1" = 50'



LAKE TANEYCOMO



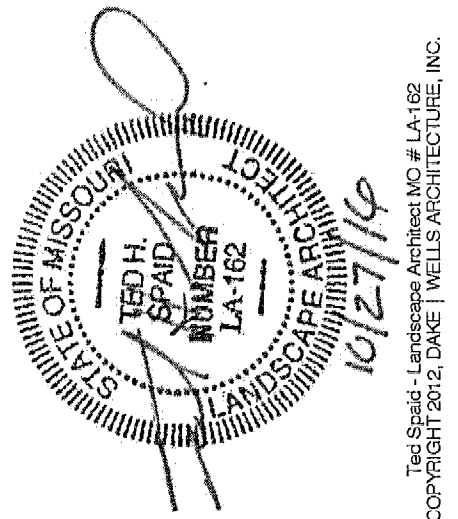
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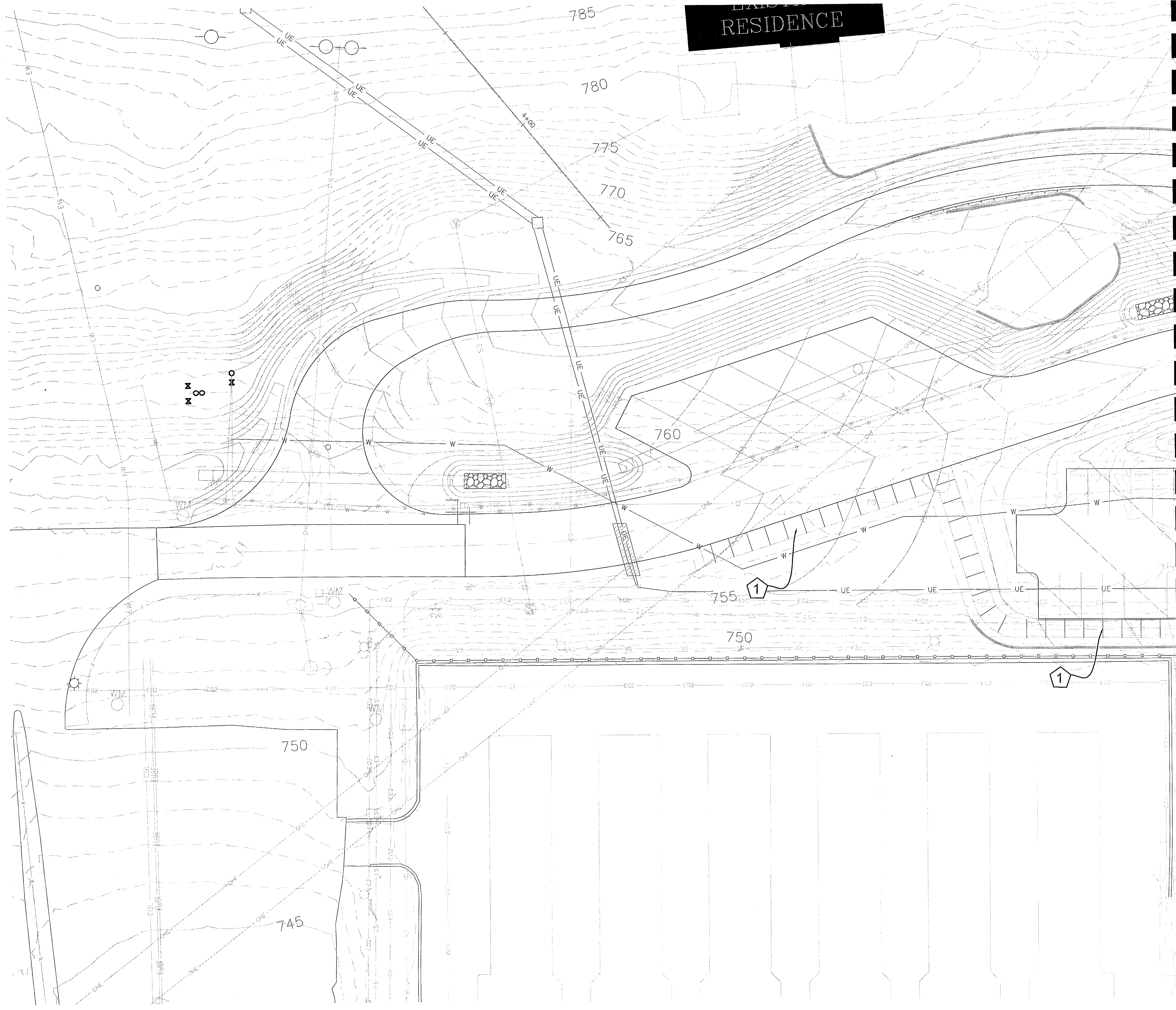
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**L-110**  
Plotted On: 10/27/2016

LAYOUT KEY PLAN



**SWI DESIGN** DAKE | WELLS  
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**LEGEND**



**CONCRETE WALK**  
 6" THICK CONCRETE PAVING, LIGHT BROOM FINISH.  
 EDGES TO BE 1/4" TOOLED RADIUS. SAW CUT JOINTS. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH OWNER'S REPRESENTATIVE. PER SPECIFICATIONS. SEE DETAILS A, B,C/L-510.

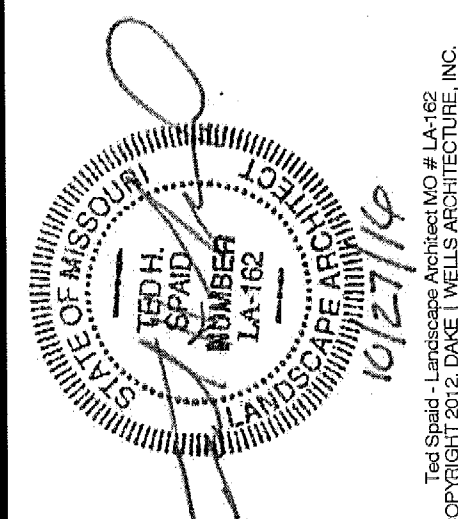
MATCHLINE SEE SHEET L-112

**(A) LAYOUT PLAN**  
1" = 20'



**SWT DESIGN** DAKE | WELLS  
 architects

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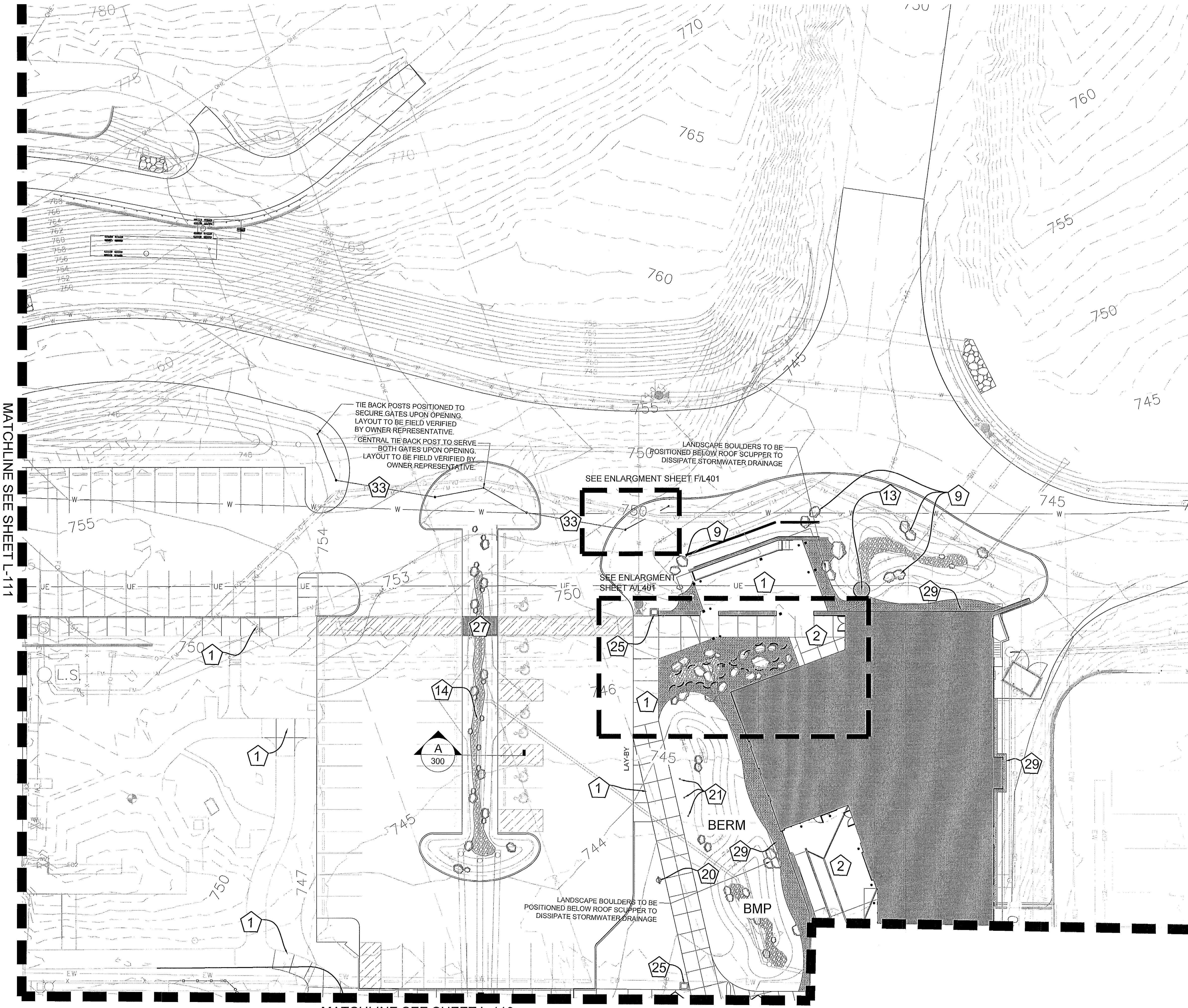
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 Branson, MO 65616

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**L-111**  
 LAYOUT PLAN  
 Plotted On: 10/27/2016

NOTIFY OWNER IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE OWNER.



LEGEND

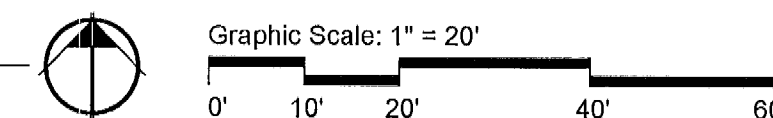
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6" THICK CONCRETE PAVING, LIGHT BROOM FINISH. EDGES TO BE 1/4" TOOLED RADIUS. SAW CUT JOINTS. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH OWNER'S REPRESENTATIVE. PER SPECIFICATIONS. SEE DETAILS A, B, C/L-510. REFERENCE ARCHITECTURAL. SEE SHEET A0.2.
- 2 SPECIALTY PAVING  
PER ARCHITECTURAL. SEE SHEET A0.2.
- 9 LANDSCAPE BOULDERS  
WEATHERED REGIONAL LIMESTONE BOULDERS AND LEDGE ROCKS WITH MOSS AND LICHEN. SIZE VARIES: 12"-36"H x 30"-36"D x 24"-60"L. SEE DETAIL D/L-510.
- 13 CIRCULAR PLANTER  
7" DIAMETER PLANTER. SEE DETAIL F/L-510
- 14 RIVER COBBLE STREAM BED  
REGIONAL OZARK STREAM COBBLES WITH RANDOMLY PLACED LIMESTONE BOULDERS. COBBLE SIZE VARIES. MIXTURE TO BE BLENDED THOROUGHLY. SEE DETAIL E/L-510.
- 20 BLUE STAR MEMORIAL  
POLE MOUNTED BRONZE MEMORIAL PLAQUE. OWNER FURNISHED CONTRACTOR INSTALLED. LAYOUT PER PLANS.
- 21 FLAG POLE  
3 ALUMINUM FLAG POLES WITH UPLIGHTS. SEE SITE PLAN FOR HEIGHTS. FOOTINGS PER MANUFACTURER SPECIFICATIONS
- 25 TRASH RECEPTACLE  
EQUAL TO ANOVA EXPOSITION 45 GAL TRASH RECEPTACLE. BLACK FINISH. ANCHORED IN PLACE. INCLUDE 30"x36" CONCRETE PAD. INSTALL PER MANUFACTURER SPECIFICATIONS.
- 27 BMP BRIDGE CROSSING  
15' STEEL BRIDGE STRUCTURE WITH ADA COMPLIANT STEEL GRATE DECKING AND EDGE PROTECTION. FINISHES: STEEL: SEALED GALVANIZED. SEE DETAIL A/L-512.
- 29 DECORATIVE GRAVEL BAND  
BAND OF 1-2" DIAMETER DECORATIVE GRAVEL OF VARIOUS WIDTH AT BASE OF BUILDING RESTRAINED WITH ALUMINUM EDGE CONSTRAINT. GRAVEL TO BE REGIONAL RIVER GRAVEL. THICKNESS: 3" WITH FILTER FABRIC ON SUBGRADE.
- 33 VEHICULAR SWING GATE  
MANUAL SWING GATE WITH LOCKABLE CONNECTION AND TIE BACK POSTS. COLOR: BLACK POWDER COAT FINISH. INSTALL PER MANUFACTURER SPECIFICATIONS. SUBMIT SHOP DRAWINGS FOR OWNER REPRESENTATIVE APPROVAL. SEE DETAILS F/L-401 & D/E/L-512. TO BE EQUAL TO BARRIER GATE ARM OPERATORS SWING GATE.

MATCHLINE SEE SHEET L-111

MATCHLINE SEE SHEET L-113

A LAYOUT PLAN  
1" = 20'

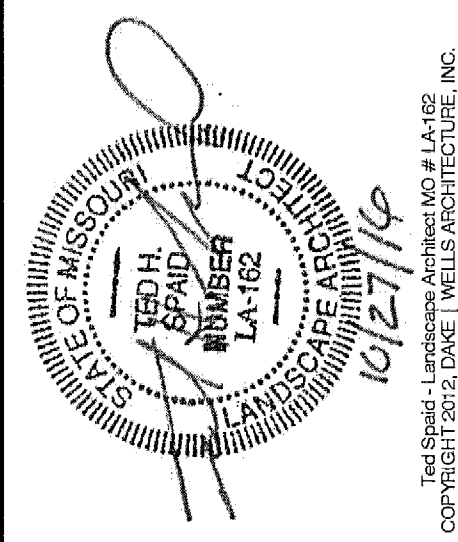
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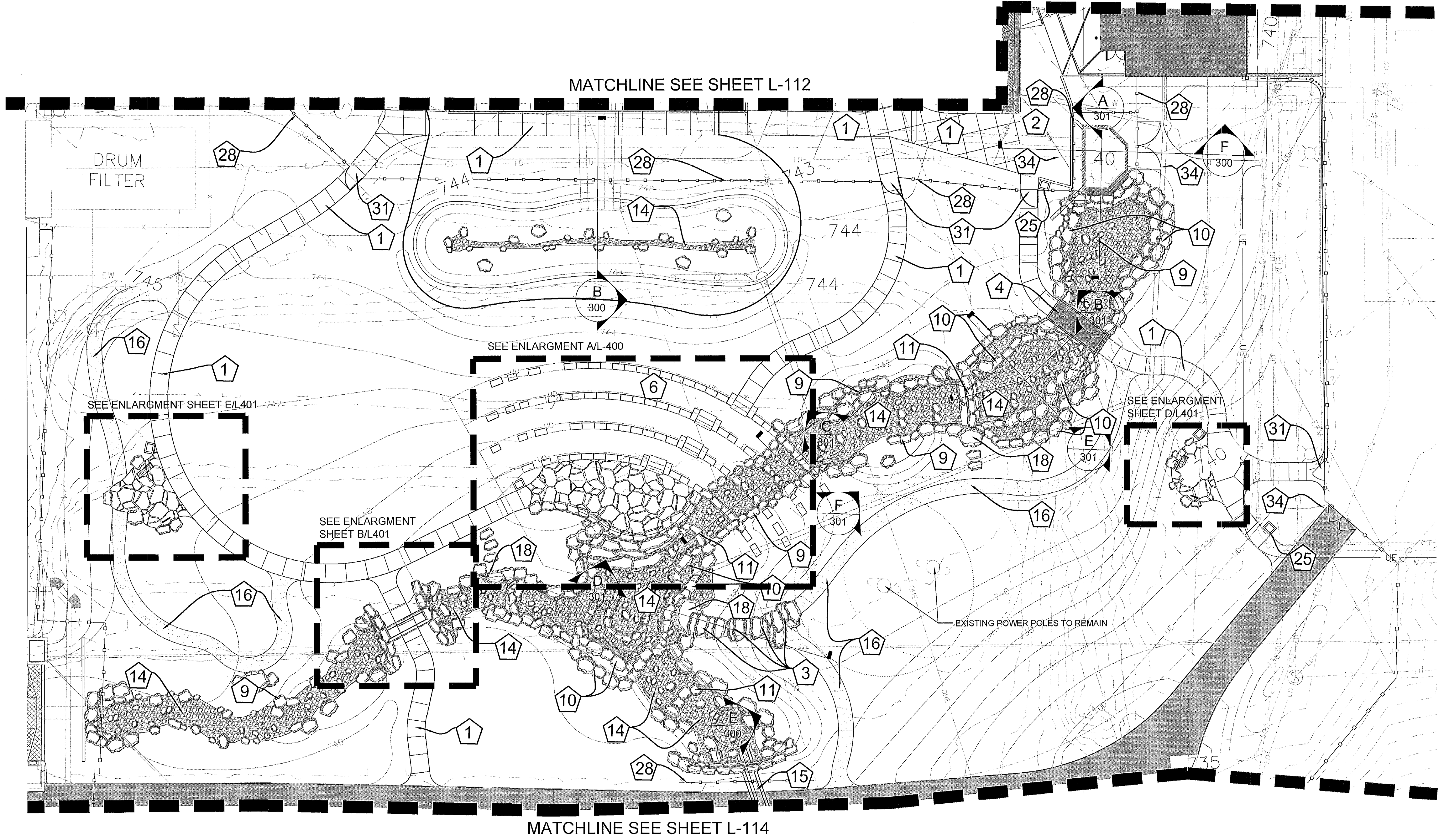
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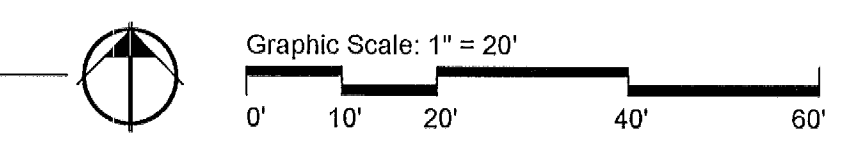
**L-112**  
LAYOUT PLAN  
Plotted On: 10/27/2016

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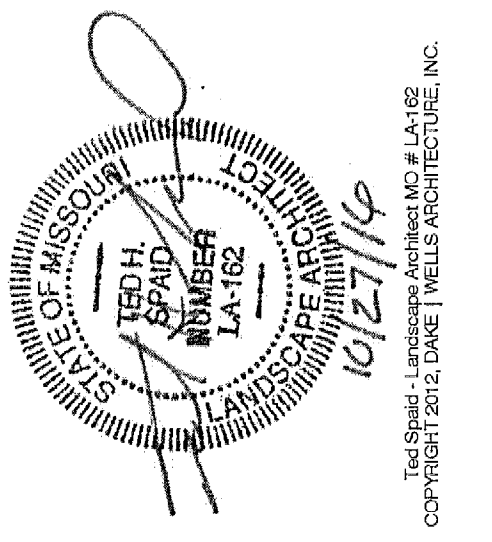


- LEGEND**
- 1 **CONCRETE WALK**  
6" THICK CONCRETE PAVING, LIGHT BROOM FINISH. EDGES TO BE 1/2" TOOLED RADIUS. SAW CUT JOINTS. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH OWNER'S REPRESENTATIVE. PER SPECIFICATIONS. SEE DETAILS A, B,C/L-510.
  - 2 **SPECIALTY PAVING**  
PER ARCHITECTURAL. SEE SHEET A0.2.
  - 3 **NATURAL STONE STEPS**  
REGIONAL LIMESTONE LEDGEROCK STEPS. SEE DETAIL C/L-512
  - 4 **PEDESTRIAN BRIDGE**  
20' STEEL BRIDGE STRUCTURE WITH ADA COMPLIANT STEEL GRATE DECKING AND STEEL GUARDRAIL. GUARDRAIL FEATURES WIRE PANEL INSERTS EQUAL TO OMEGA FENCING. FINISHES: STEEL: GALVANIZED AND SEALED. SEE DETAIL G/L-510.
  - 6 **AMPHITHEATER SEAT WALL**  
SOLID LIMESTONE BLOCK SEAT WALL. DIMENSIONALLY CUT TOP, BOTTOM AND SIDES. EXPOSED FACE, SPLIT. TOP, MEDIUM SANDBLAST. 1/4" BEVEL ON ALL CUT EDGES. SIZE: 18"H x 24"D x 36"L. SEE DETAIL C&D/L-400.
  - 8 **SMALL CULVERT**  
SEE CIVIL DRAWINGS FOR CULVERT DETAILS. PIPE TO BE DISGUISED WITH WEATHERED REGIONAL LIMESTONE LEDGE ROCK. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL B/L-512.
  - 9 **LANDSCAPE BOULDERS**  
WEATHERED REGIONAL LIMESTONE BOULDERS AND LEDGE ROCKS WITH MOSS AND LICHEN. SIZE VARIES: 12"-36"H x 30"-36"D x 24"-60"L. SEE DETAIL D/L-510.
  - 10 **STACKED LIMESTONE BOULDERS**  
WEATHERED REGIONAL LIMESTONE LEDGE ROCKS. STACKED TO HEIGHT AS INDICATED ON PLANS & DETAILS. LAYOUT PER PLANS. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL D/L-511.
  - 11 **LIMESTONE WEIR**  
WEATHERED REGIONAL LIMESTONE BOULDERS. LAYOUT PER PLANS. SIZE VARIES: 12"-24"H x 12"-24"D x 24"-36"L. SEE DETAILS B,C/L-511.
  - 14 **RIVER COBBLE STREAM BED**  
REGIONAL OZARK STREAM COBBLES WITH RANDOMLY PLACED LIMESTONE BOULDERS. COBBLE SIZE VARIES. MIXTURE TO BE BLENDED THOROUGHLY. SEE DETAIL E/L-510.
  - 15 **ROAD CULVERT**  
SEE CIVIL DRAWINGS FOR CULVERT DETAILS. PIPE TO BE DISGUISED WITH WEATHERED REGIONAL LIMESTONE LEDGE ROCK. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL E/L-300 & D/L-511 & B/L-512.
  - 16 **NATURAL PATH**  
DECOMPOSED LIMESTONE PATH. 5' WIDE. SEE DETAIL H/L-510.
  - 18 **FISHING ROCK**  
LARGE LIMESTONE FLAT ROCK. TO BE FIELD SELECTED BY OWNER'S REPRESENTATIVE. SIZE: 18"-36"H x 6'-8"W x 6'-8"L.
  - 25 **TRASH RECEPTACLE**  
EQUAL TO ANOVA EXPOSITION 45 GAL TRASH RECEPTACLE. BLACK FINISH. ANCHORED IN PLACE. INCLUDE 30"X36" CONCRETE PAD. INSTALL PER MANUFACTURER SPECIFICATIONS.
  - 28 **6" FENCE**  
TO BE EQUAL TO 6" OMEGA "SECUR" DOUBLE WIRE FENC OR APPROVED EQUAL. 3"X3" POST WITH SQUARE CAPS. COLOR: BLACK. PEDESTRIAN CROSSINGS TO BE GATED WITH EQUAL TO 6" OPENING OMEGA SECUR DOUBLE WIF DOUBLE SWING GATE. LAYOUT PER PLANS PROVIDE SHOP DRAWINGS FOR APPROVAL. INSTALL PER MANUFACTURER SPECIFICATIONS.
  - 31 **PEDESTRIAN GATE**  
6" WIDE OMEGA "DOUBLE WIRE DOUBLE SWING GATE" FENCE OR APPROVED EQUAL. 3"X3" POST WITH SQUARE CAPS. COLOR: BLACK. PROVIDE SHOP DRAWINGS FOR APPROVAL. INSTALL PER MANUFACTURERS REQUIREMENTS.
  - 34 **VEHICULAR GATE**  
16" WIDE 6' TALL TO BE EQUAL TO OMEGA "SECUR DOUBLE WIRE" FENCE. 4"X4" POST WITH SQUARE CAPS. COLOR: BLACK. PROVIDE SHOP DRAWINGS FOR APPROVAL. INSTALL PER MANUFACTURERS REQUIREMENTS.

**A LAYOUT PLAN**  
1" = 20'



**SWT DESIGN**  
 DAKE I WELLS  
 architecture  
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**L-113**  
LAYOUT PLAN  
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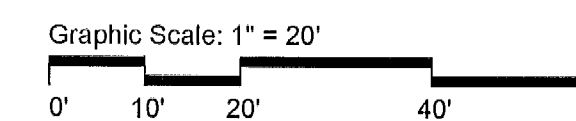
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MATCHLINE SEE SHEET L-115



MATCHLINE SEE SHEET L-113

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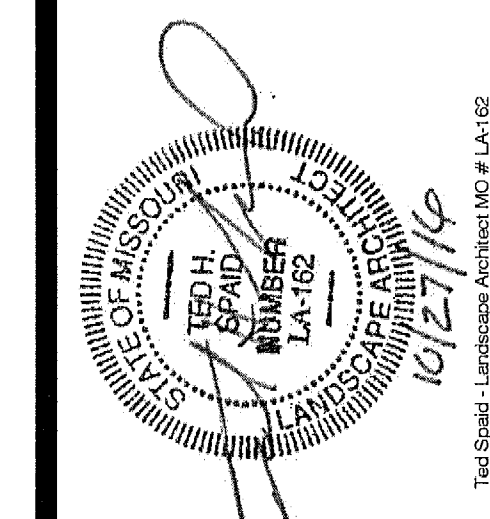


**LEGEND**

- 1** CONCRETE WALK  
6" THICK CONCRETE PAVING, LIGHT BROOM FINISH. EDGES TO BE 1/4" TOOLED RADIUS. SAW CUT JOINTS. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH OWNER'S REPRESENTATIVE. PER SPECIFICATIONS. SEE DETAILS A, B,C/L-510.
- 4** PEDESTRIAN BRIDGE  
20' STEEL BRIDGE STRUCTURE WITH ADA COMPLIANT STEEL GRATE DECKING AND STEEL GUARDRAIL. GUARDRAIL FEATURES WIRE PANEL INSERTS EQUAL TO OMEGA FENCING. FINISHES: STEEL: GALVANIZED AND SEALED. SEE DETAIL G/L-510.
- 9** LANDSCAPE BOULDERS  
WEATHERED REGIONAL LIMESTONE BOULDERS AND LEDGE ROCKS WITH MOSS AND LICHEN. SIZE VARIES: 12"-36"H x 30"-36"D x 24"-60"L. SEE DETAIL D/L-510.
- 10** STACKED LIMESTONE BOULDERS  
WEATHERED REGIONAL LIMESTONE LEDGE ROCKS. STACKED TO HEIGHT AS INDICATED ON PLANS & DETAILS. LAYOUT PER PLANS. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL D/L-511.
- 11** LIMESTONE WEIR  
WEATHERED REGIONAL LIMESTONE BOULDERS. LAYOUT PER PLANS. SIZE VARIES: 12"-24"H x 12"-24"D x 24"-36"L. SEE DETAILS B,C/L-511.
- 14** RIVER COBBLE STREAM BED  
REGIONAL OZARK STREAM COBBLES WITH RANDOMLY PLACED LIMESTONE BOULDERS. COBBLE SIZE VARIES, MIXTURE TO BE BLENDED THOROUGHLY. SEE DETAIL E/L-510.
- 15** ROAD CULVERT  
SEE CIVIL DRAWINGS FOR CULVERT DETAILS. PIPE TO BE DISGUISED WITH WEATHERED REGIONAL LIMESTONE LEDGE ROCK. SIZE VARIES: +/-18"H x 30"-36"D x 24"-60"L. SEE DETAIL E/L-300 & D/L-511 & B/L-512.
- 26** BIRDHOUSE  
PURPLE MARTIN HOUSE. ALUMINUM CONSTRUCTION WITH AT LEAST 6 COMPARTMENTS. POLE HEIGHT 18' FOOTINGS PER MANUFACTURER SPECIFICATION. COLOR WHITE. LOCATIONS TO BE FIELD VERIFIED BY OWNER REPRESENTATIVE AND LANDSCAPE ARCHITECT. EQUAL TO TRENDSETTER 12.
- 28** 6' FENCE  
TO BE EQUAL TO 6' OMEGA "SECUR" DOUBLE WIRE FENCE OR APPROVED EQUAL. 3"X3" POST WITH SQUARE CAPS. COLOR: BLACK. PEDESTRIAN CROSSINGS TO BE GATED WITH EQUAL TO 6' OPENING OMEGA SECUR DOUBLE WIRE DOUBLE SWING GATE. LAYOUT PER PLANS PROVIDE SHOP DRAWINGS FOR APPROVAL. INSTALL PER MANUFACTURER SPECIFICATIONS.
- 34** VEHICULAR GATE  
18' WIDE 6' TALL TO BE EQUAL TO OMEGA "SECUR DOUBLE WIRE" FENCE. 4"X4" POST WITH SQUARE CAPS. COLOR: BLACK. PROVIDE SHOP DRAWINGS FOR APPROVAL. INSTALL PER MANUFACTURERS REQUIREMENTS.
- 35** BIRDHOUSE  
POLY LUMBER BLUEBIRD HOUSE. TO BE POLE MOUNTED AT A HEIGHT OF 6'. POLE TO BE ALUMINUM WITH FOOTINGS PER MANUFACTURER SPECIFICATIONS. FINAL LOCATIONS TO BE FIELD VERIFIED BY OWNER REPRESENTATIVE AND LANDSCAPE ARCHITECT. TO BE EQUAL TO DUNCRAFT BIRD-SAFE BLUEBIRD HOUSE.



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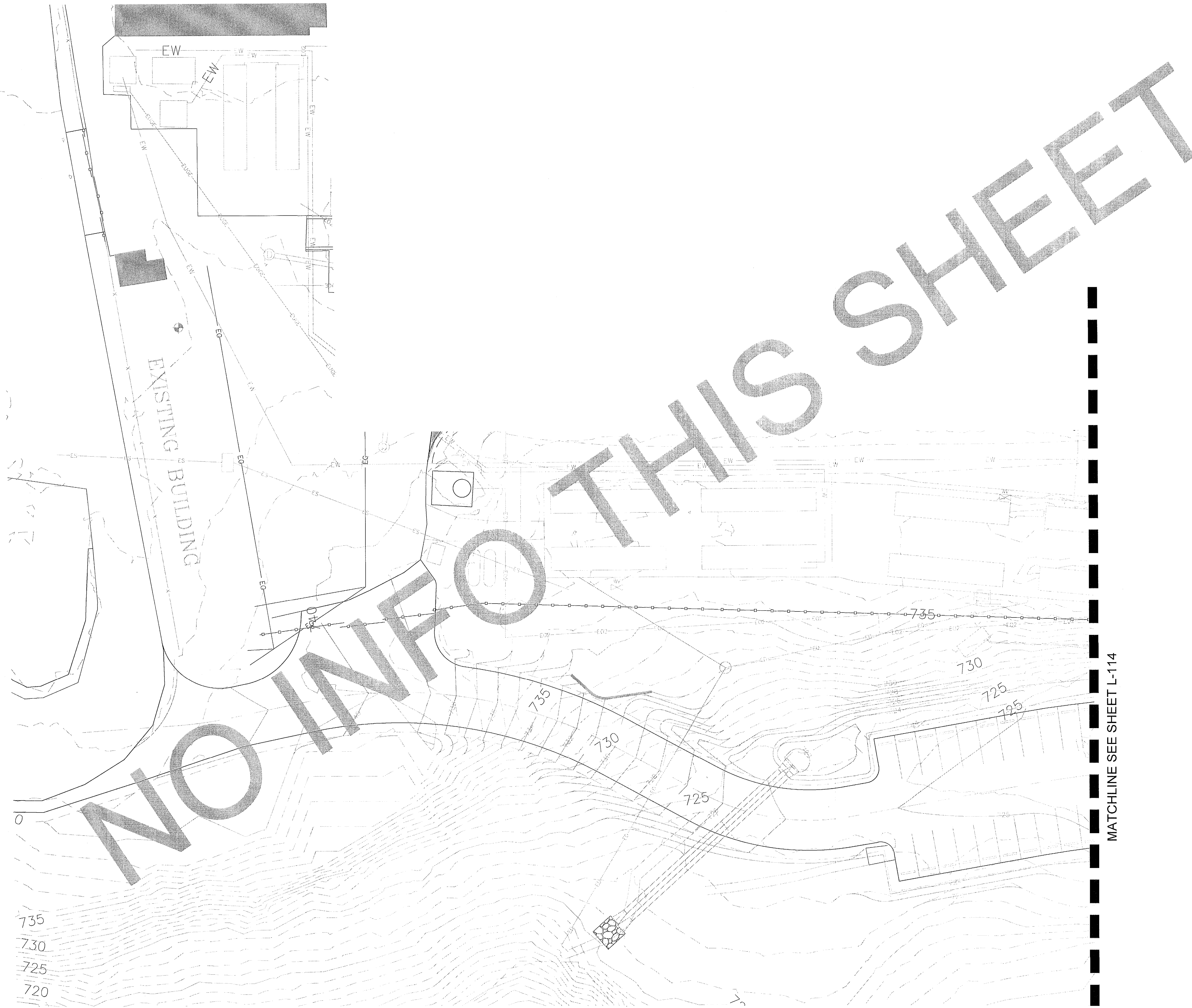


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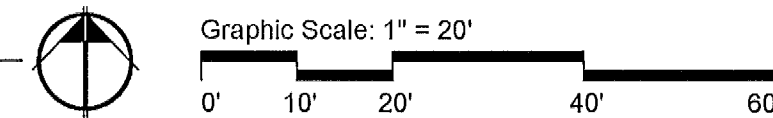
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**L-114**  
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(A) LAYOUT PLAN  
1" = 20'



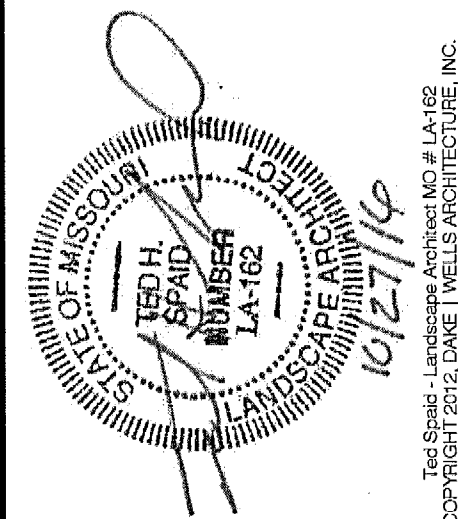
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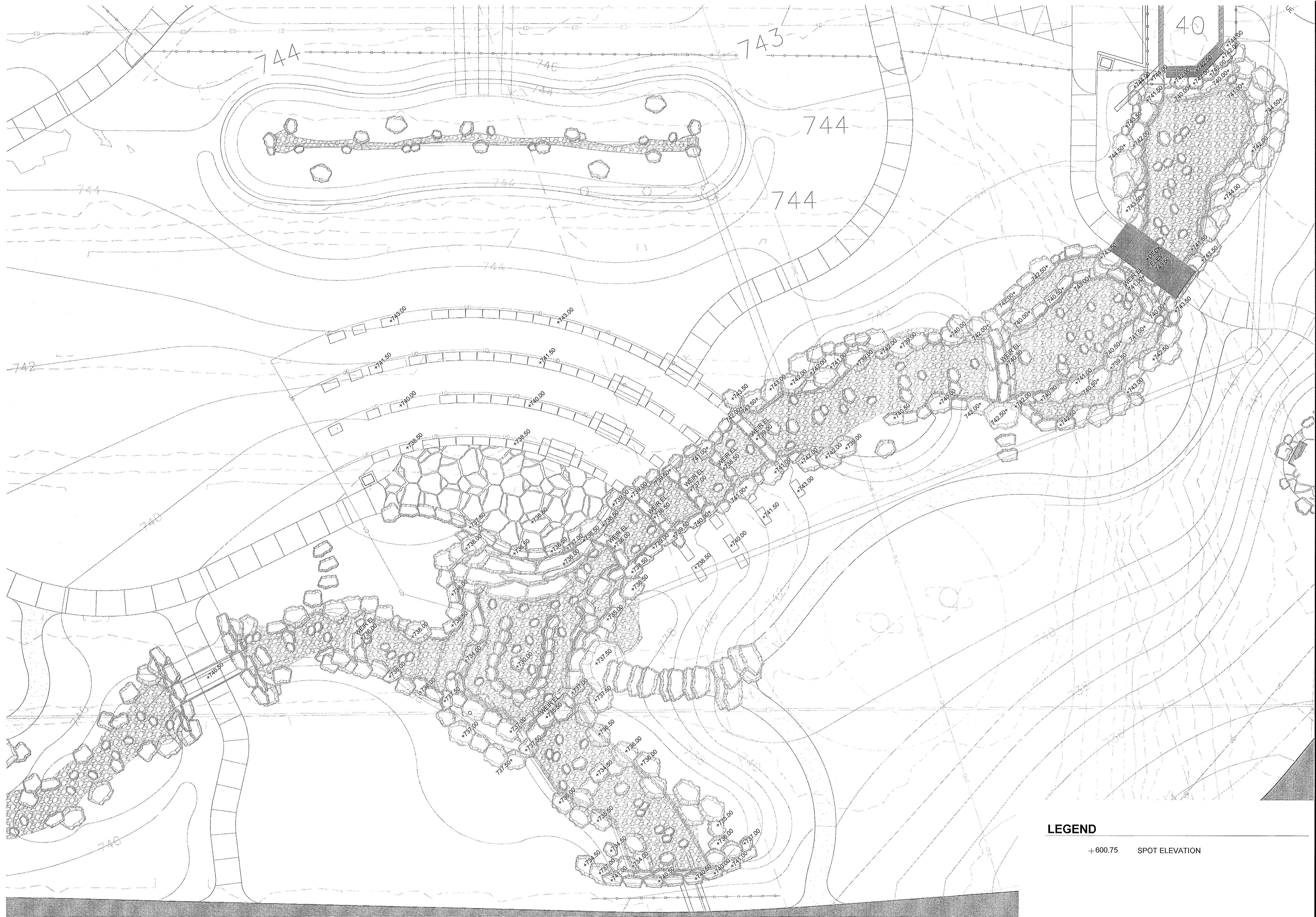
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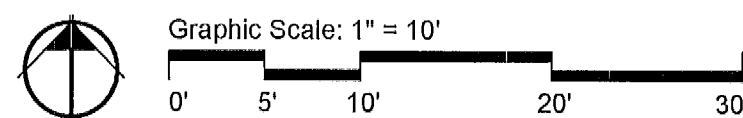
**L-115**  
LAYOUT PLAN  
Plotted On: 10/27/2016



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**A LAYOUT PLAN**  
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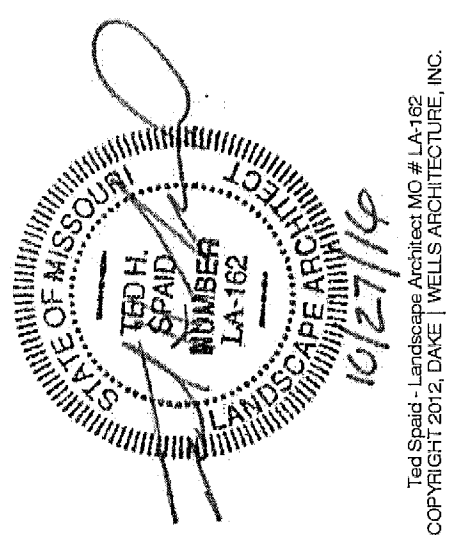
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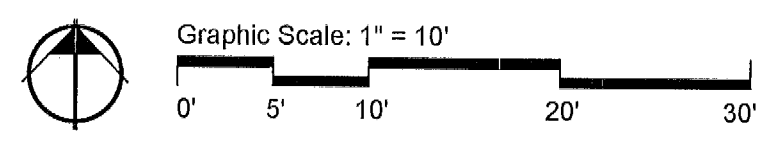
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**LEGEND**

+ 600.75 SPOT ELEVATION

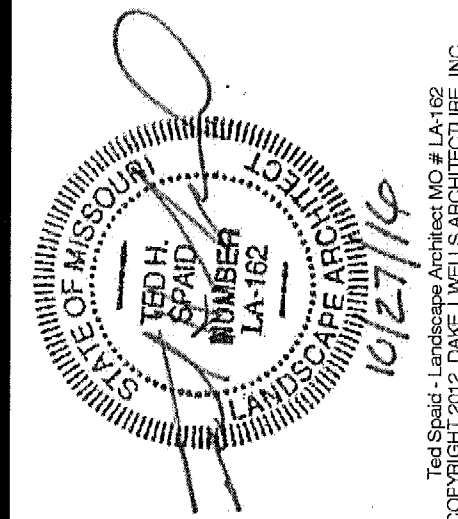
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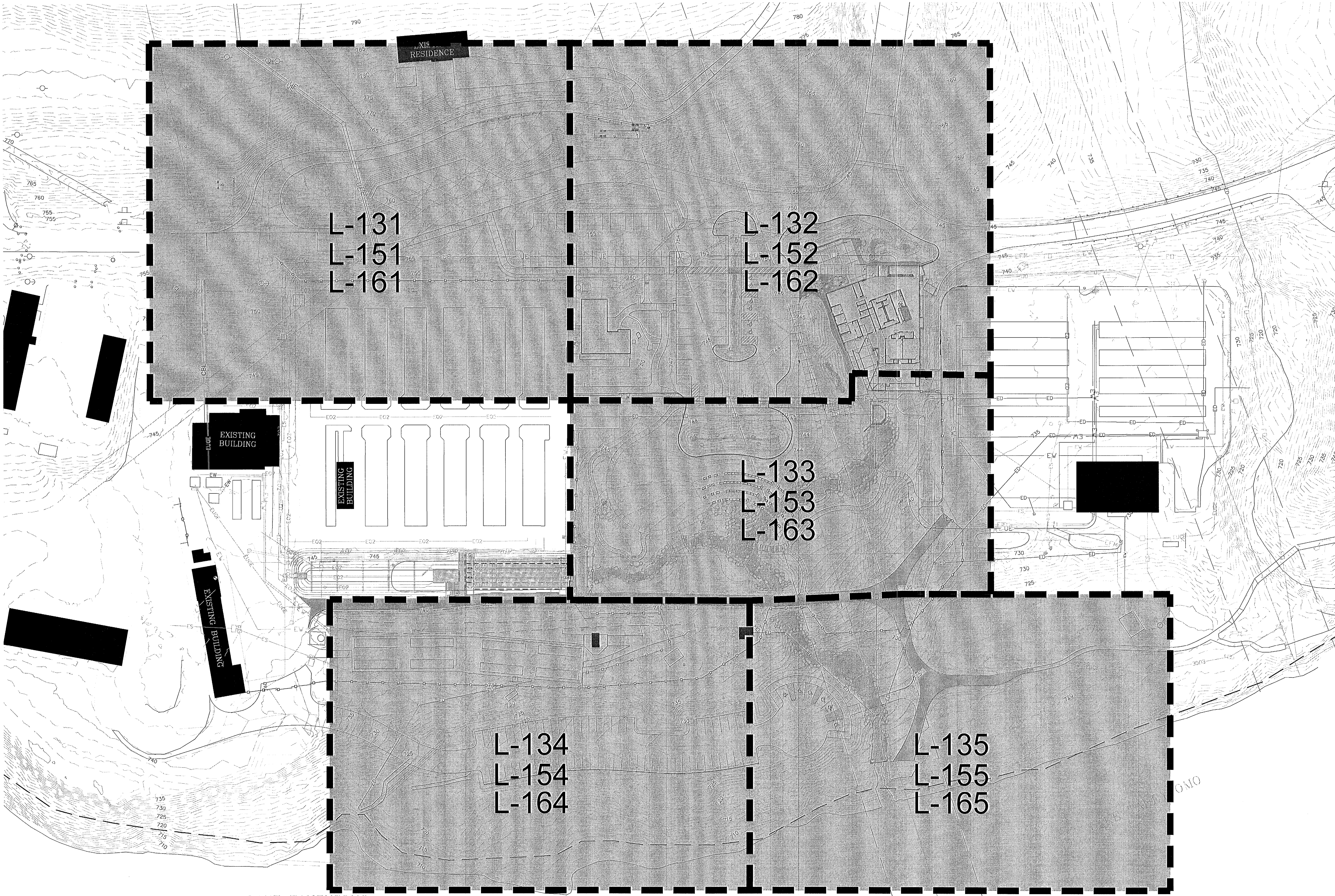


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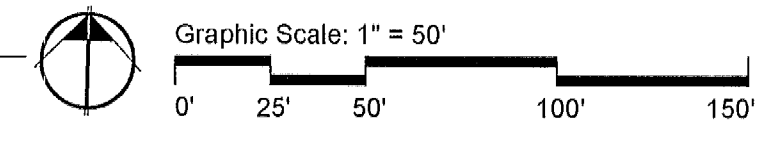
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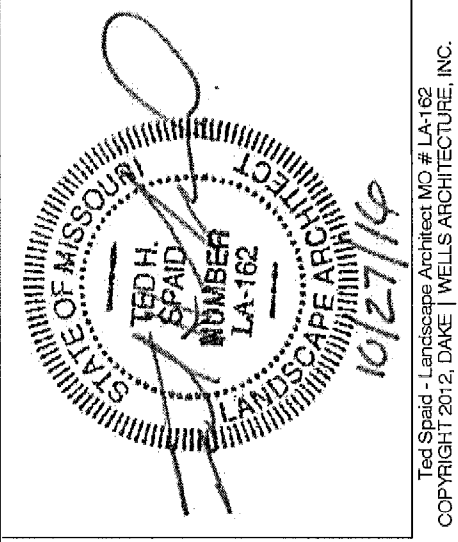


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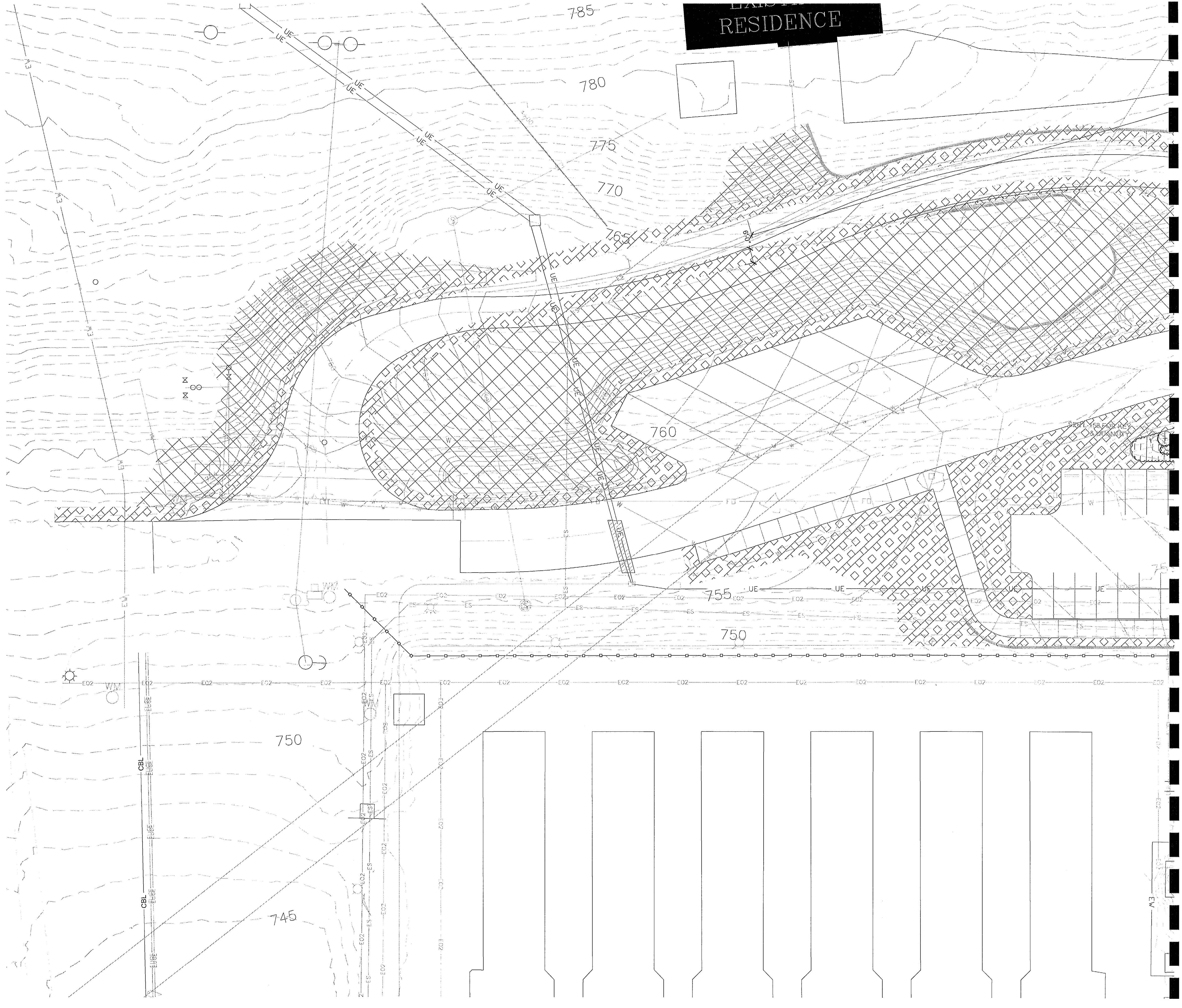
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**L-130**  
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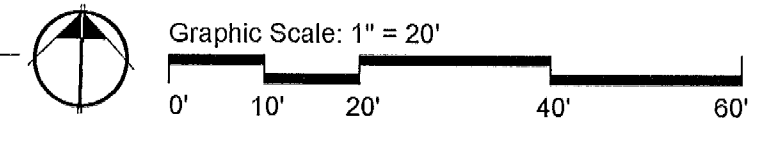
**PLANTING & SOIL KEY PLAN**

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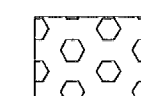
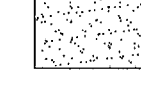

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**A** SOILS PLAN  
1" = 20'



**SOILS LEGEND**

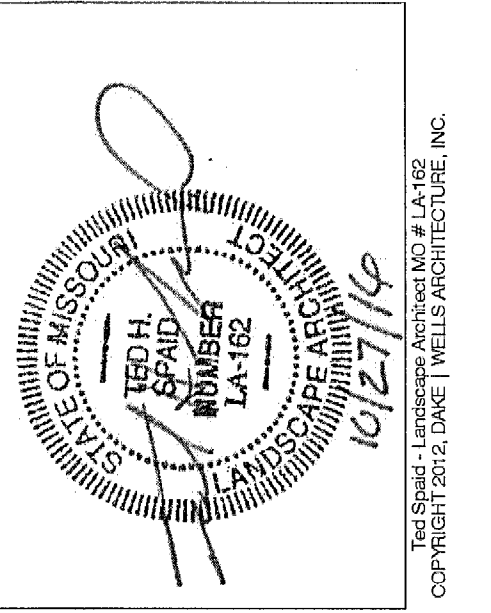
-  **TURF SOIL**  
6" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS AND AMENDED OR IMPORTED TOP SOIL AMENDED PER SPECIFICATIONS.
-  **NATIVE SEED & MEADOW SOIL**  
6" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS AND AMENDED PER SPECIFICATIONS.
-  **PERENNIAL SOIL**  
12" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS OR IMPORTED SOILS AND AMENDED PER SPECIFICATIONS.
-  **BMP SOIL**  
IMPORTED BMP SOIL MIX PER DETAILS AND SPECIFICATIONS DEPTH VARIES SEE PLAN AND DETAILS.
-  **RAIN GARDEN MINERAL MULCH**  
2" DEPTH, 3/8" CLEAN, MISSOURI CRUSHED GRANITE (BLACK). PROVIDE SAMPLE FOR LANDSCAPE ARCHITECT'S APPROVAL.
-  **SOIL SAMPLE LOCATION**

MATCHLINE SEE SHEET L-132



**SWT DESIGN** DAIKE I WELLS  
architecte

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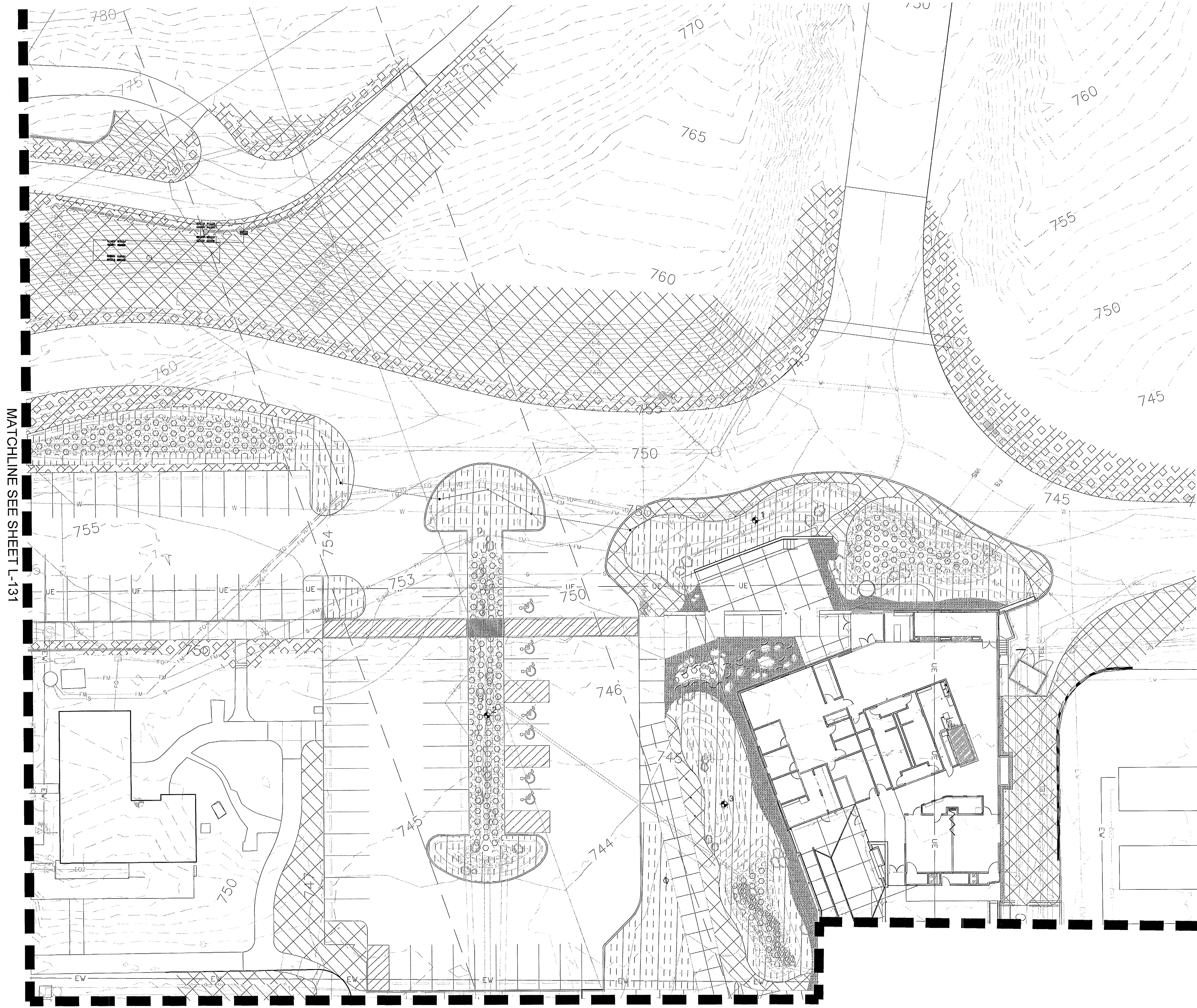


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**L-131** SOILS PLAN  
Plotted On: 10/27/2016

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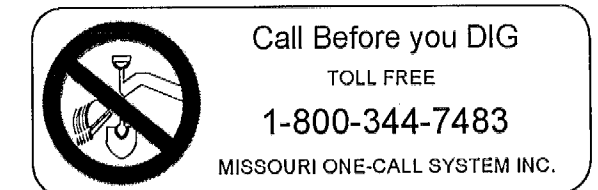
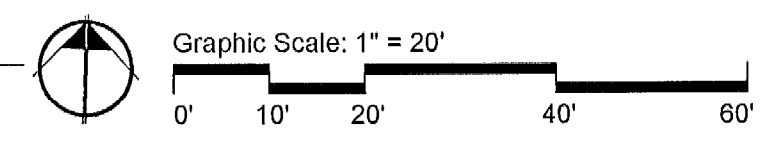
MATCHLINE SEE SHEET L-133

IMPROVE SOILS ALONG SERVICE ROAD TO LIMITS OF DISTURBANCE.

**SOILS LEGEND**

- TURF SOIL  
6" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS AND AMENDED OR IMPORTED TOP SOIL AMENDED PER SPECIFICATIONS.
- NATIVE SEED & MEADOW SOIL  
8" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS AND AMENDED PER SPECIFICATIONS.
- PERENNIAL SOIL  
12" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS OR IMPORTED SOILS AND AMENDED PER SPECIFICATIONS.
- BMP SOIL  
IMPORTED BMP SOIL MIX PER DETAILS AND SPECIFICATIONS DEPTH VARIES SEE PLAN AND DETAILS.
- RAIN GARDEN MINERAL MULCH  
2" DEPTH, 3/4" CLEAN, MISSOURI CRUSHED GRANITE (BLACK). PROVIDE SAMPLE FOR LANDSCAPE ARCHITECT'S APPROVAL.
- SOIL SAMPLE LOCATION

**A** SOILS PLAN  
1" = 20'

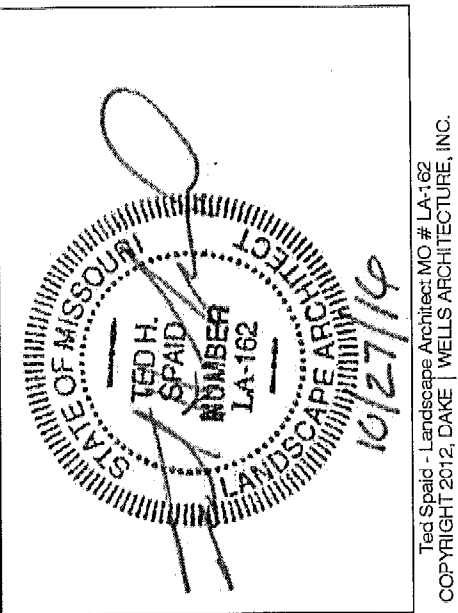


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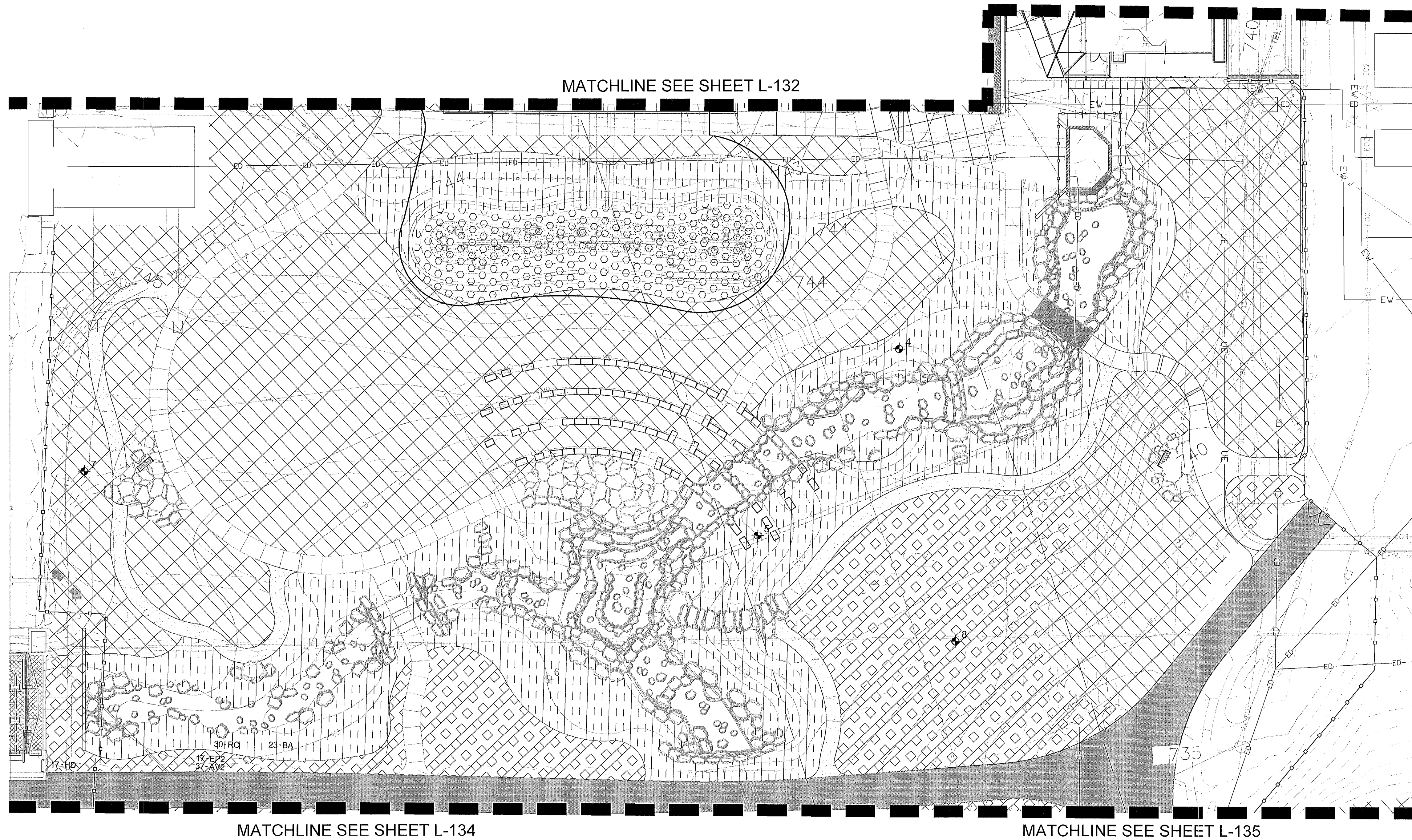
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Branson, MO 65616

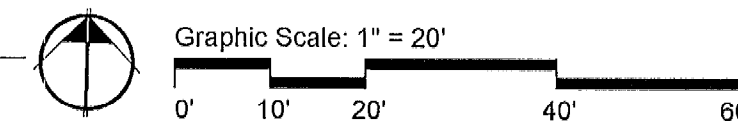
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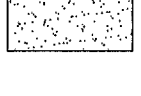

SOILS PLAN



**A** SOILS PLAN  
1" = 20'



**SOILS LEGEND**

-  **TURF SOIL**  
6" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS AND AMENDED OR IMPORTED TOP SOIL AMENDED PER SPECIFICATIONS.
-  **NATIVE SEED & MEADOW SOIL**  
6" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS AND AMENDED PER SPECIFICATIONS.
-  **PERENNIAL SOIL**  
12" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS OR IMPORTED SOILS AND AMENDED PER SPECIFICATIONS.
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IMPORTED BMP SOIL MIX PER DETAILS AND SPECIFICATIONS DEPTH VARIES SEE PLAN AND DETAILS.
-  **RAIN GARDEN MINERAL MULCH**  
2" DEPTH, 3/4" CLEAN, MISSOURI CRUSHED GRANITE (BLACK). PROVIDE SAMPLE FOR LANDSCAPE ARCHITECT'S APPROVAL.
-  **SOIL SAMPLE LOCATION**

NOTE: OVER EXCAVATE STREAM IMPROVEMENT AREAS 12" BELOW FINISHED GRADE. REPLACE OVER-DIG WITH TWO 6" LIFTS OF COMPACTED CLAY. COMPACT CLAY TO 95% PROCTOR

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**L-133**  
Soils Plan  
Plotted On: 10/27/2016

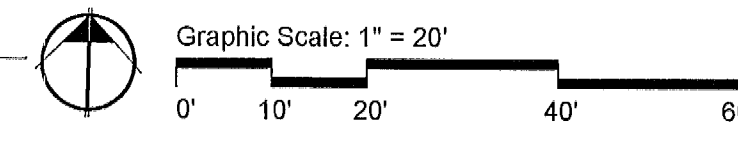
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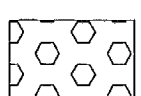
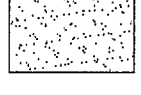
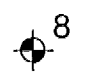
MATCHLINE SEE SHEET L-133

MATCHLINE SEE SHEET L-135

**A** SOILS PLAN  
1" = 20'



**SOILS LEGEND**

-  **TURF SOIL**  
6" DEPTH TOP SOIL PRODUCED FROM ON SITE SOILS AND AMENDED OR IMPORTED TOP SOIL AMENDED PER SPECIFICATIONS.
-  **NATIVE SEED & MEADOW SOIL**  
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-  **SOIL SAMPLE LOCATION**

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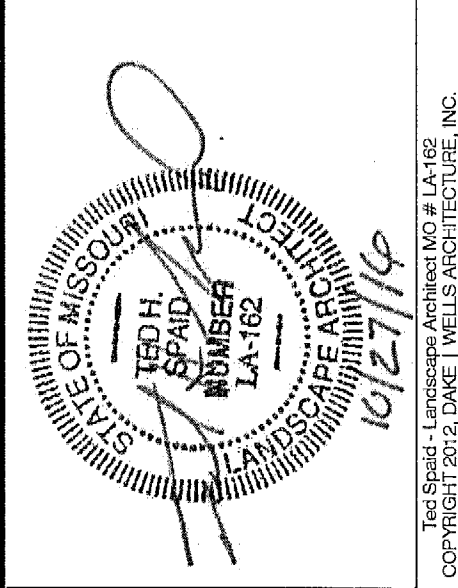
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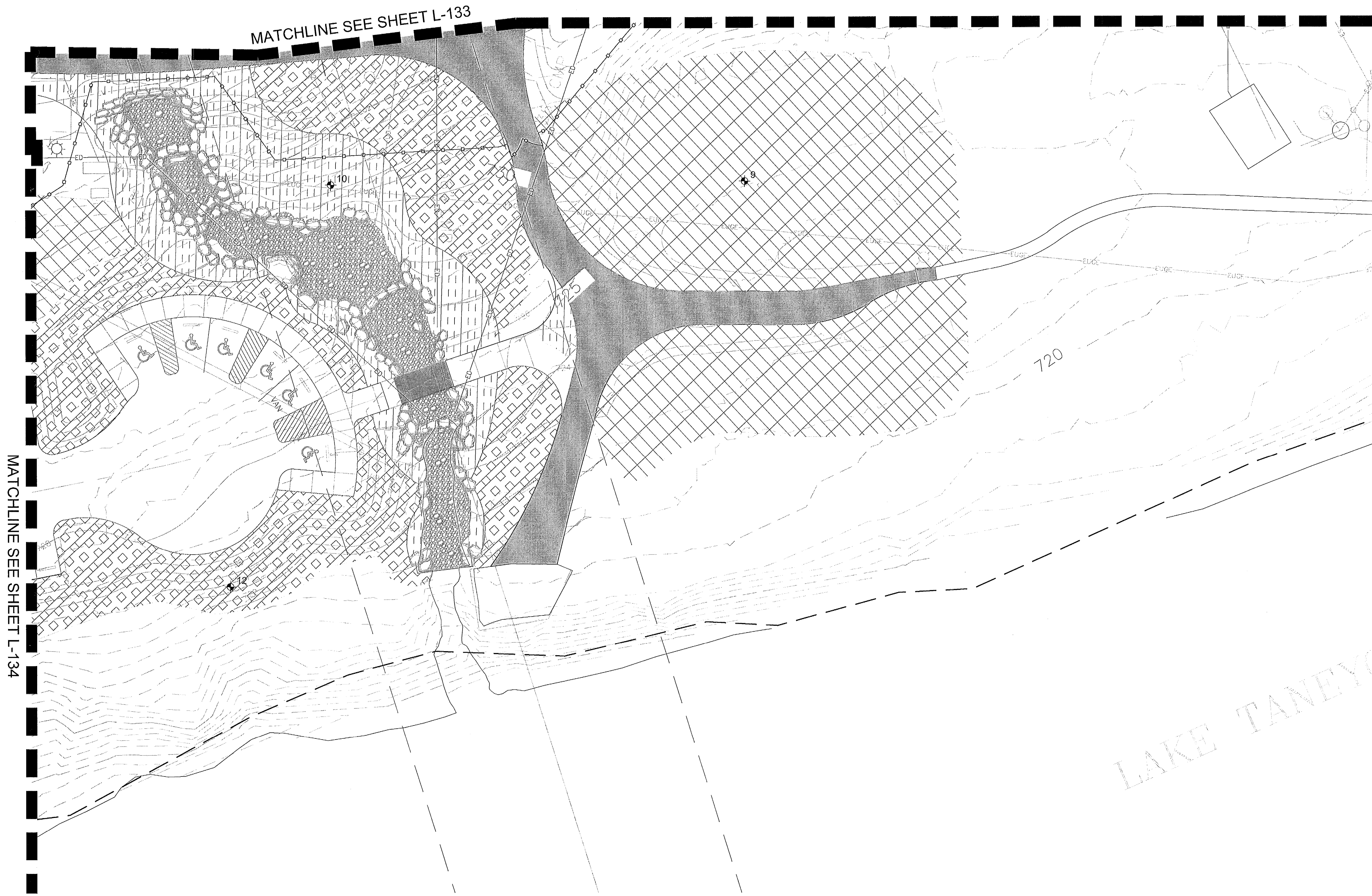
SOILS PLAN



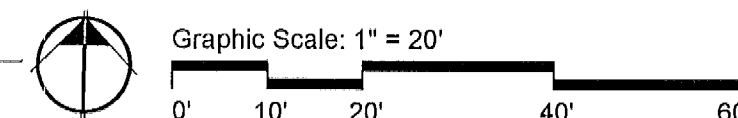
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architects

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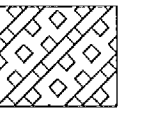
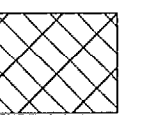
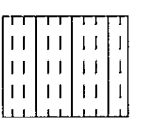
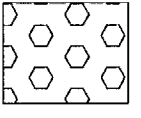
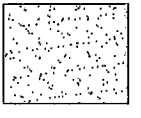
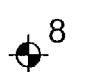
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**A** SOILS PLAN  
1" = 20'



**SOILS LEGEND**

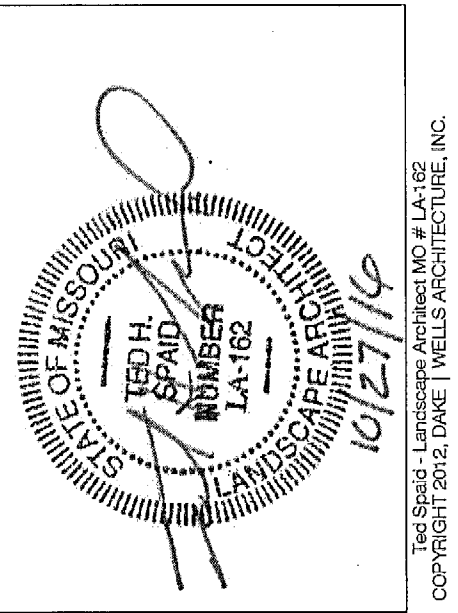
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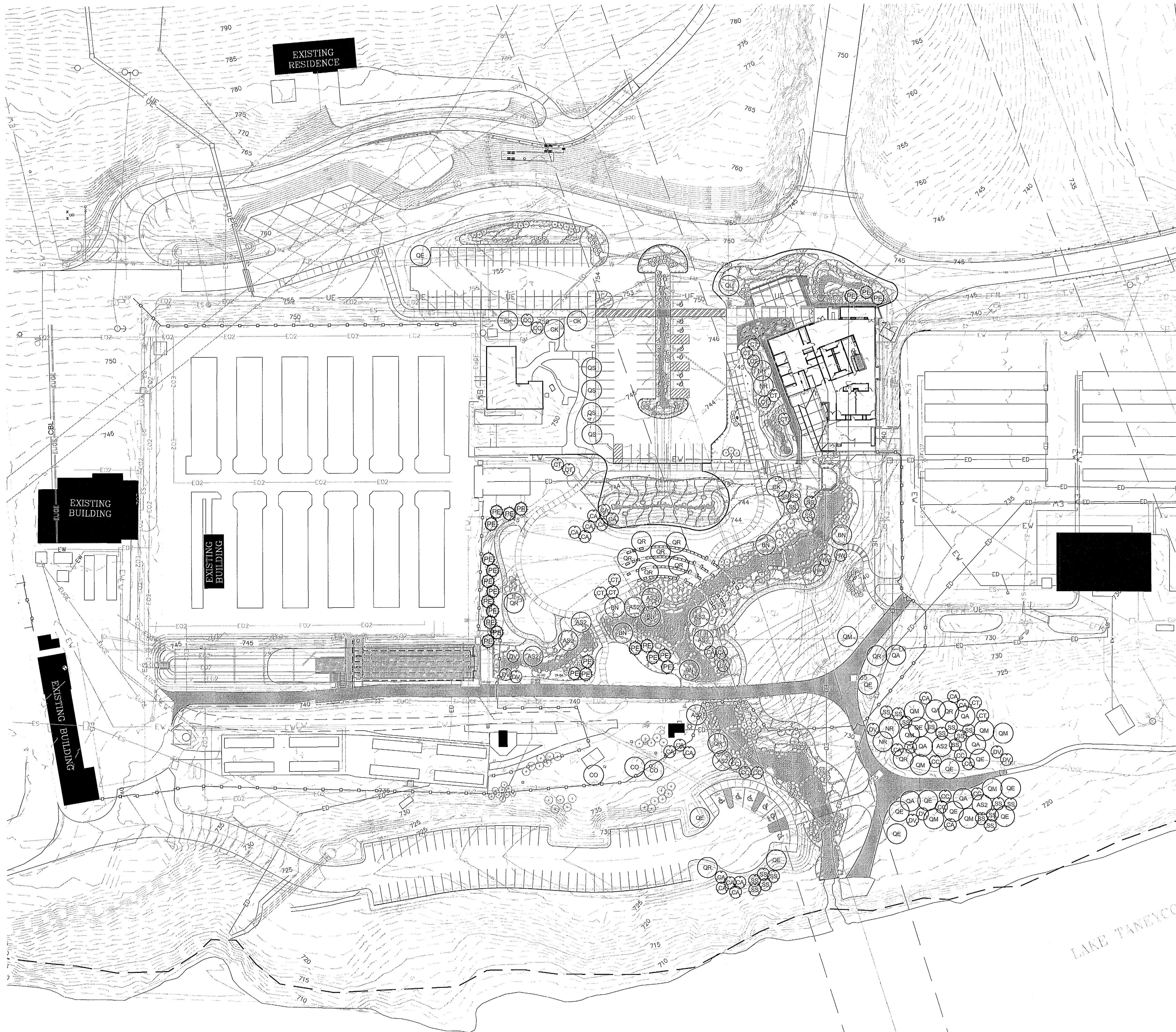
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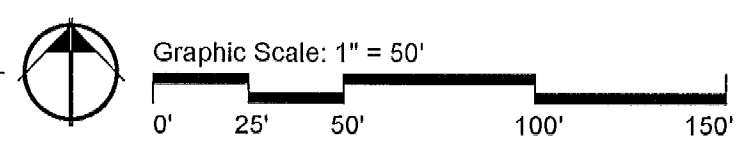
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**L-135**  
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**SOILS PLAN**



**A TREE PLANTING PLAN**  
1" = 50'



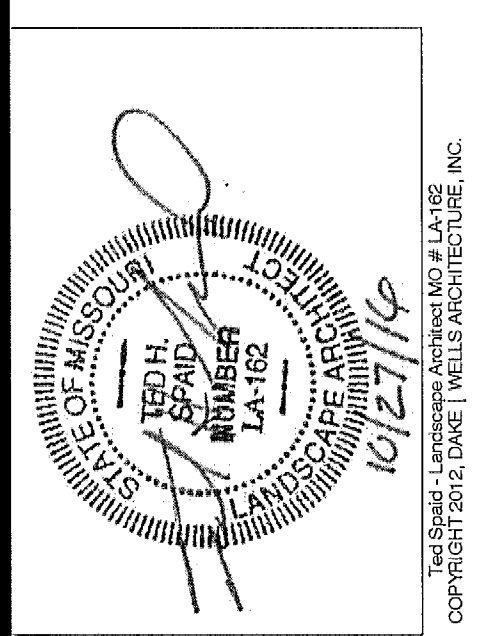
MDC - SHEPHERD OF THE HILLS PLANT LEGEND		
DECIDUOUS TREES	BOTANICAL NAME	COMMON NAME
AS2	Acer saccharum	Sugar Maple
BN	Betula nigra	River Birch
CK	Cladrastis kentukea	American Yellowwood
CO	Carya ovata	Shagbark Hickory
NR	Nyssa sylvatica	Black Gum
QA	Quercus alba	White Oak
QE	Quercus muehlenbergii	Chinkapin Oak
QL	Quercus lyrata	Overcup Oak
QM	Quercus macrocarpa	Burr Oak
QR	Quercus rubra	Red Oak
QS	Quercus shumardii	Shumard Red Oak
EVERGREEN TREES	BOTANICAL NAME	COMMON NAME
PE	Pinus echinata	Short Leaf Pine
FLOWERING TREES	BOTANICAL NAME	COMMON NAME
CA	Carpinus caroliniana	American Hornbeam
CC	Cercis canadensis	Eastern Redbud
CT	Cotinus obovatus	American Smoke Tree
DV	Diospyros virginiana	Common Persimmon
HW	Hamamelis vernalis	Spring Blooming Witchhazel
SS	Sassafras albidum	Sassafras

**SWT DESIGN** DAKE | WELLS  
architecture

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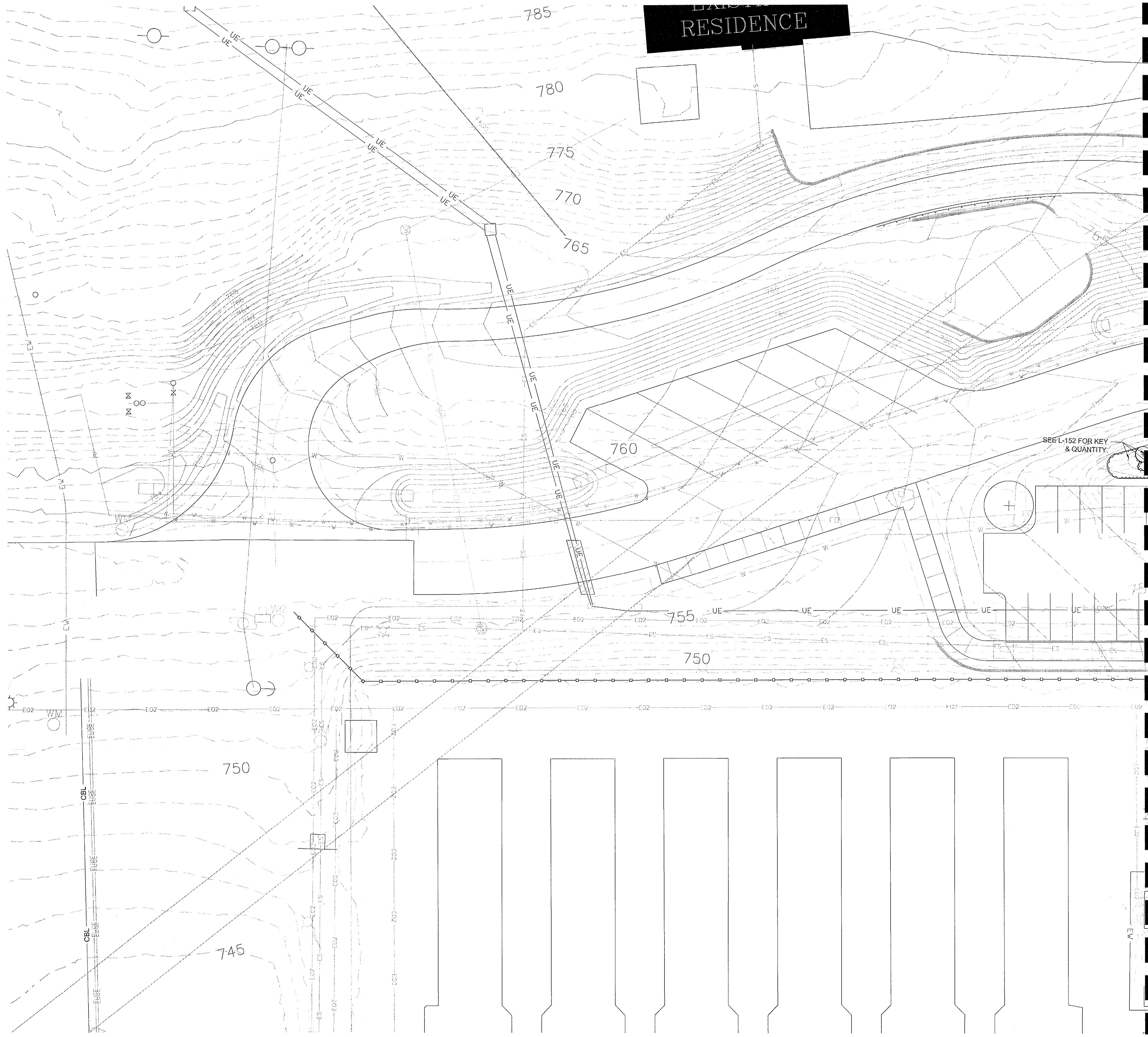
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TREE PLAN

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**A UNDERSTORY PLANTING PLAN**  
1" = 20'



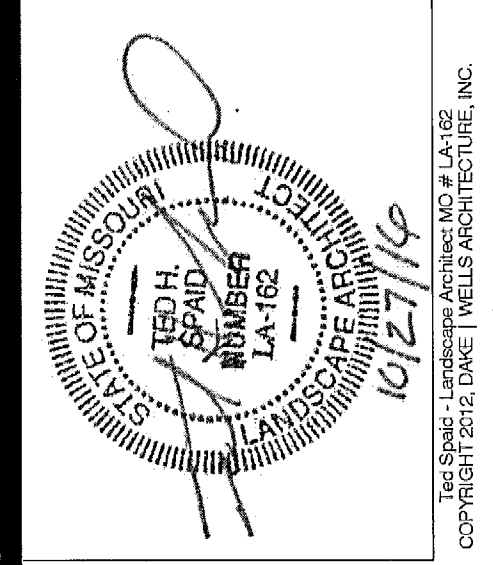
MATCHLINE SEE SHEET L-152

MDC - SHEPHERD OF THE HILLS PLANT LEGEND		
SHRUBS	BOTANICAL NAME	COMMON NAME
CB	<i>Callicarpa americana</i>	American Beautyberry
LB	<i>Lindera benzoin</i>	Spicebush
RA	<i>Rhus aromatica</i>	Fragrant Sumac
RB	<i>Rhamnus caroliniana</i>	Carolina Buckthorn
RG	<i>Rhus glabra</i>	Smooth Sumac
RM2	<i>Ribes missouriense</i>	Missouri Gooseberry
SE	<i>Sambucus canadensis</i>	Elderberry

ORNAMENTAL GRASSES		
	BOTANICAL NAME	COMMON NAME
AV2	<i>Andropogon virginicus</i>	Broomsedge Bluestem
BC	<i>Bouteloua curtipendula</i>	Side Oats Grama
BG	<i>Bouteloua gracilis</i>	Blue Grama
CE	<i>Carex emoryi</i>	Emory Sedge
CS	<i>Chasmanthium latifolium</i>	Wood Oats
CW	<i>Carex albicans</i>	Whiteninge Sedge
EH	<i>Equisetum hyemale</i>	Horsetail Reed Grass
JD	<i>Juncus dudleyi</i>	Dudley's Rush
MC	<i>Muhlenbergia capillaris</i>	Pink Muhly
PV	<i>Panicum virgatum</i>	Switch Grass
SH	<i>Sporobolus heterolepis</i>	Prairie Dropseed

PERENNIALS		
	BOTANICAL NAME	COMMON NAME
AC	<i>Asclepias tuberosa</i>	Butterfly Milkweed
AC2	<i>Asclepias tuberosa</i>	Butterfly Milkweed
AT2	<i>Amsonia tabernaemontana</i>	Eastern Bluestar
AV	<i>Asclepias verticillata</i>	Whorled Milkweed
BA	<i>Baptisia australis</i>	Blue Wild Indigo
CL	<i>Coreopsis lanceolata</i>	Lanceleaf Tickseed
EP2	<i>Eupatorium purpureum</i>	Savannah Joe-Pye Weed
GM	<i>Geranium maculatum</i>	Spotted Geranium
HA	<i>Helenium autumnale</i>	Sneezeweed
HD	<i>Helianthus divaricatus</i>	Woodland Sunflower
HH	<i>Hypericum hypericoides hypericoides</i>	St. Andrew's Cross
HP	<i>Hypericum punctatum</i>	Spotted St. Johnswort
LA	<i>Liatis aspera</i>	Rough Blazing Star
LS	<i>Lobelia siphilitica</i>	Great Lobelia
ME	<i>Monarda bradburiana</i>	Eastern Bee Balm
RC	<i>Ratibida columnifera</i>	Yellow Prairie Coneflower
RM	<i>Rudbeckia missouriensis</i>	Black Eyed Susan
YG	<i>Yucca glauca</i>	Soapweed

NOTIFY OWNER IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE OWNER.



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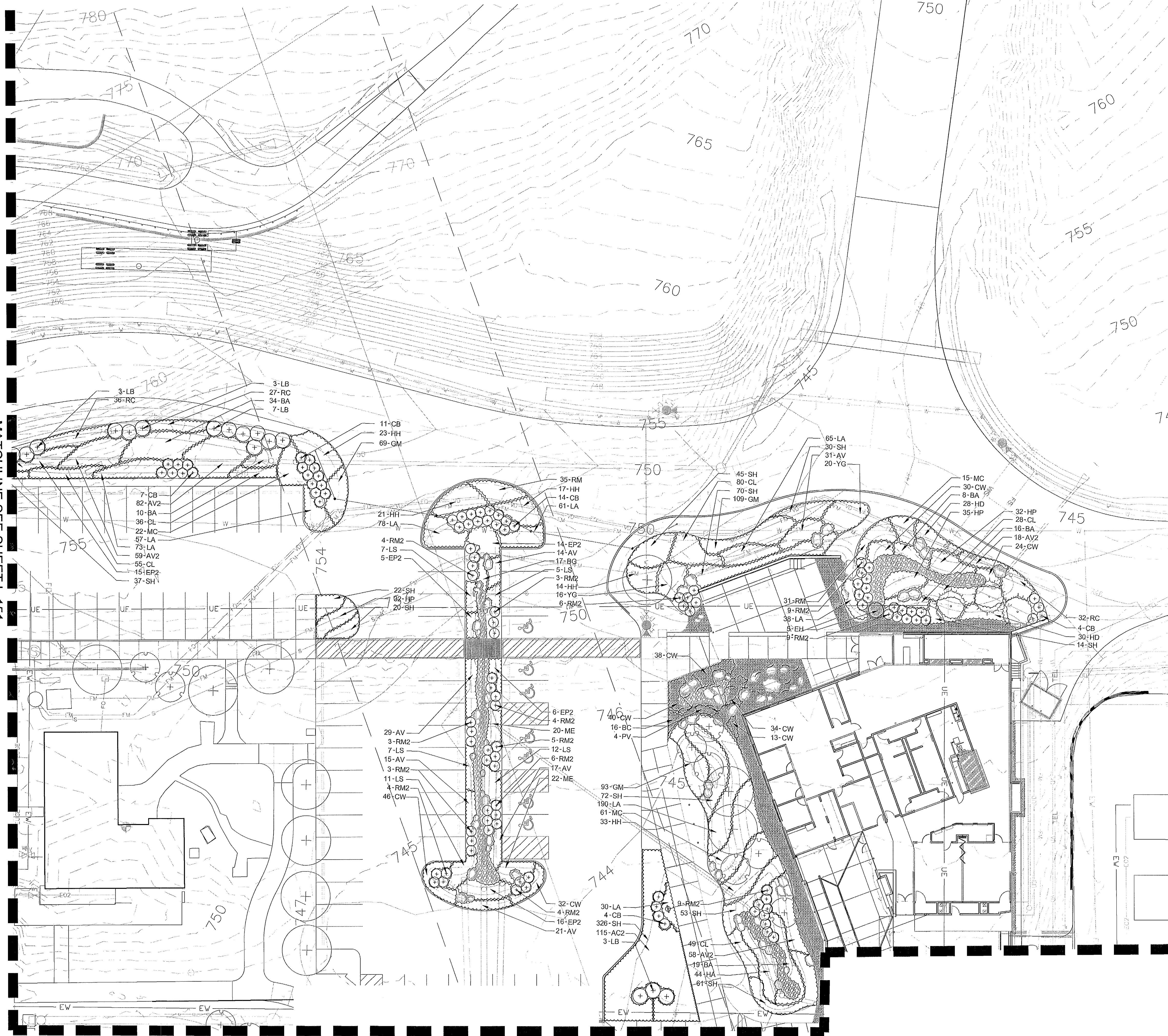
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UNDERSTORY PLAN

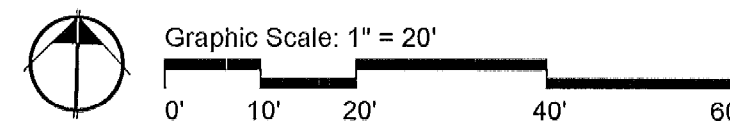
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 architecture  
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 St. Louis, MO 63104  
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**A UNDERSTORY PLANTING PLAN**  
1" = 20'

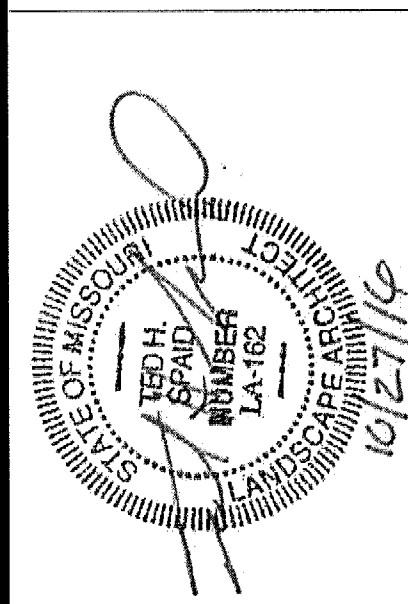
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MDC - SHEPHERD OF THE HILLS PLANT LEGEND		
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RM2	Ribes missouriense	Missouri Gooseberry
SE	Sambucus canadensis	Elderberry
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HD	Helianthus divaricatus	Woodland Sunflower
HH	Hypericum hypericoides hypericoides	St. Andrew's Cross
HP	Hypericum punctatum	Spotted St. Johnswort
LA	Liatris aspera	Rough Blazing Star
LS	Lobelia siphilitica	Great Lobelia
ME	Monarda bradburiana	Eastern Bee Balm
RC	Ratibida columnifera	Yellow Prairie Coneflower
RM	Rudbeckia missouriensis	Black Eyed Susan
YG	Yucca glauca	Soapweed



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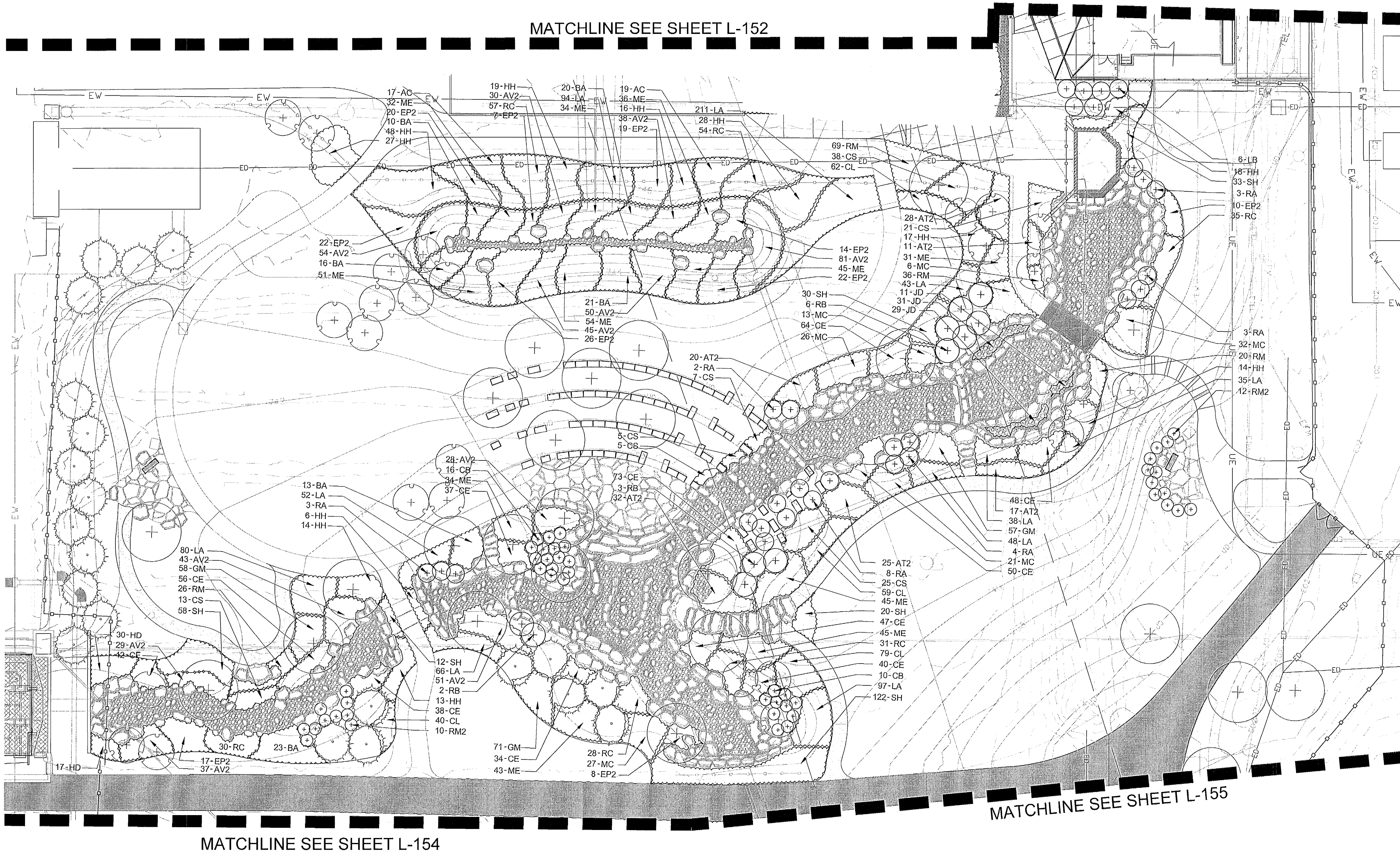
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UNDERSTORY PLAN

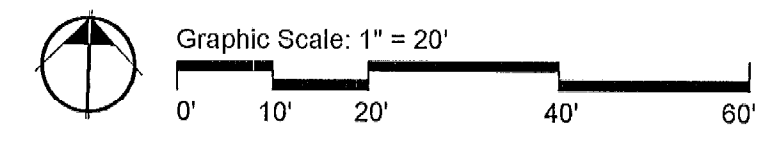
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**MDC - SHEPHERD OF THE HILLS PLANT LEGEND**

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BC	Bouteloua curtipendula	Side Oats Grama
BG	Bouteloua gracilis	Blue Grama
CE	Carex emoryi	Emory Sedge
CS	Chasmanthium latifolium	Wood Oats
CW	Carex albicans	Whiteninge Sedge
EH	Equisetum hyemale	Horsetail Reed Grass
JD	Juncus dudleyi	Dudley's Rush
MC	Muhlenbergia capillaris	Pink Muhly
PV	Panicum virgatum	Switch Grass
SH	Sporobolus heterolepis	Prairie Dropseed
PERENNIALS	BOTANICAL NAME	COMMON NAME
AC	Asclepias tuberosa	Butterfly Milkweed
AC2	Asclepias tuberosa	Butterfly Milkweed
AT2	Amsonia tabernaemontana	Eastern Bluestar
AV	Asclepias verticillata	Whorled Milkweed
BA	Baptisia australis	Blue Wild Indigo
CL	Coreopsis lanceolata	Lanceleaf Tickseed
EP2	Eupatorium purpureum	Savannah Joe-Pye Weed
GM	Geranium maculatum	Spotted Geranium
HA	Helenium autumnale	Sneezeweed
HD	Helianthus divaricatus	Woodland Sunflower
HH	Hypericum hypericoides hypericoides	St. Andrew's Cross
HP	Hypericum punctatum	Spotted St. Johnswort
LA	Liatris aspera	Rough Blazing Star
LS	Lobelia siphilitica	Great Lobelia
ME	Monarda bradburiana	Eastern Bee Balm
RC	Ratibida columnifera	Yellow Prairie Coneflower
RM	Rudbeckia missouriensis	Black Eyed Susan
YG	Yucca glauca	Soapweed

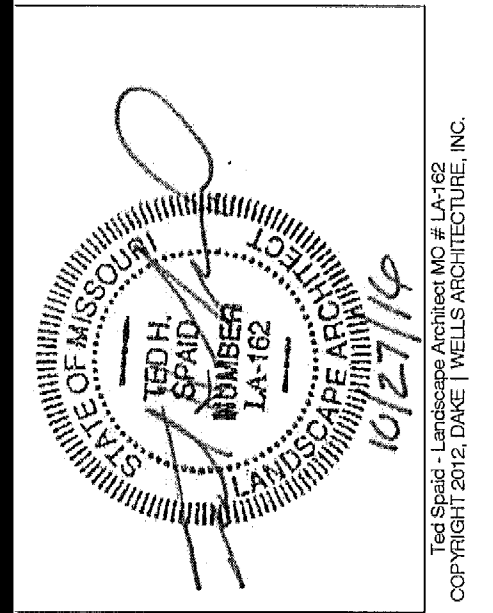
**A UNDERSTORY PLANTING PLAN**  
1" = 20'



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**SWT DESIGN** DAKE I WELLS  
architecte

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St. Louis, MO 63119  
t. 314.644.5700 f. 314.644.6378



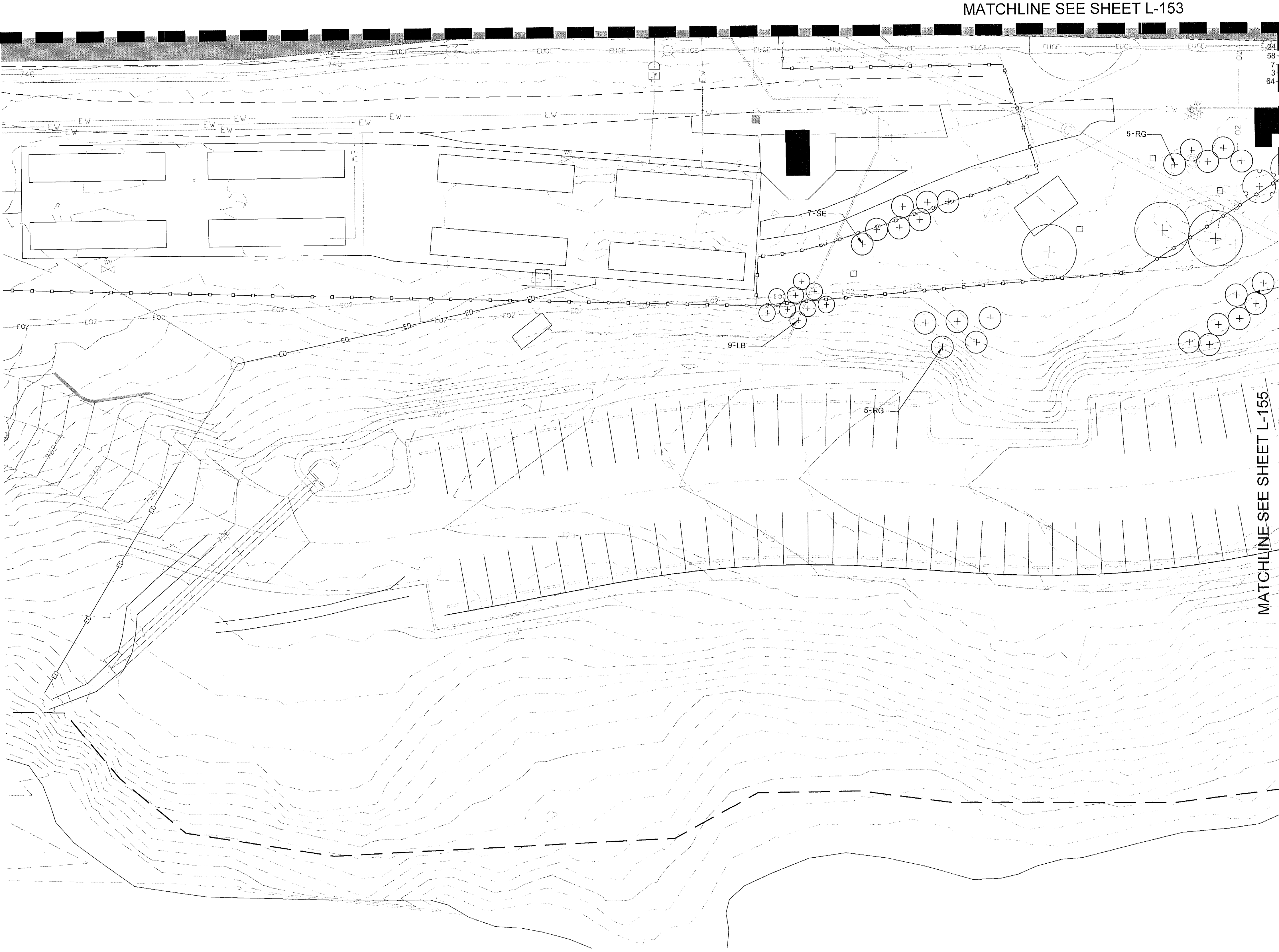
**SHEPHERD OF THE HILLS  
CONSERVATION NATURE CENTER**

MISSOURI DEPARTMENT OF CONSERVATION  
Hatchery Road  
Branson, MO 65616

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**L-153**  
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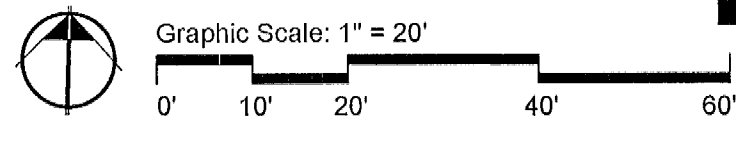
**UNDERSTORY PLAN**



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MATCHLINE SEE SHEET L-155

**A UNDERSTORY PLANTING PLAN**  
1" = 20'



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MISSOURI ONE-CALL SYSTEM INC.

**MDC - SHEPHERD OF THE HILLS PLANT LEGEND**

SHRUBS	BOTANICAL NAME	COMMON NAME
CB	<i>Callicarpa americana</i>	American Beautyberry
LB	<i>Lindera benzoin</i>	Spicebush
RA	<i>Rhus aromatica</i>	Fragrant Sumac
RB	<i>Rhamnus caroliniana</i>	Carolina Buckthorn
RG	<i>Rhus glabra</i>	Smooth Sumac
RM2	<i>Ribes missouriense</i>	Missouri Gooseberry
SE	<i>Sambucus canadensis</i>	Elderberry

ORNAMENTAL GRASSES	BOTANICAL NAME	COMMON NAME
AV2	<i>Andropogon virginicus</i>	Broomsedge Bluestem
BC	<i>Bouteloua curtipendula</i>	Side Oats Grama
BG	<i>Bouteloua gracilis</i>	Blue Grama
CE	<i>Carex emoryi</i>	Emory Sedge
CS	<i>Chasmanthium latifolium</i>	Wood Oats
CW	<i>Carex albicans</i>	Whitetinge Sedge
EH	<i>Equisetum hyemale</i>	Horsetail Reed Grass
JD	<i>Juncus dudleyi</i>	Dudley's Rush
MC	<i>Muhlenbergia capillaris</i>	Pink Muhly
PV	<i>Panicum virgatum</i>	Switch Grass
SH	<i>Sporobolus heterolepis</i>	Prairie Dropseed

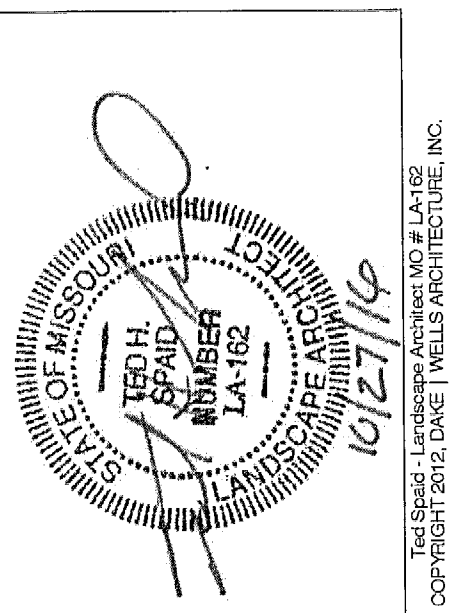
PERENNIALS	BOTANICAL NAME	COMMON NAME
AC	<i>Asclepias tuberosa</i>	Butterfly Milkweed
AC2	<i>Asclepias tuberosa</i>	Butterfly Milkweed
AT2	<i>Amsonia tabernaemontana</i>	Eastern Bluestar
AV	<i>Asclepias verticillata</i>	Whorled Milkweed
BA	<i>Baptisia australis</i>	Blue Wild Indigo
CL	<i>Coreopsis lanceolata</i>	Lanceleaf Tickseed
EP2	<i>Eupatorium purpureum</i>	Savannah Joe-Pye Weed
GM	<i>Geranium maculatum</i>	Spotted Geranium
HA	<i>Helenium autumnale</i>	Sneezeweed
HD	<i>Helianthus divaricatus</i>	Woodland Sunflower
HH	<i>Hypericum hypericoides hypericoides</i>	St. Andrew's Cross
HP	<i>Hypericum punctatum</i>	Spotted St. Johnswort
LA	<i>Liatris aspera</i>	Rough Blazing Star
LS	<i>Lobelia siphilitica</i>	Great Lobelia
ME	<i>Monarda bradburiana</i>	Eastern Bee Balm
RC	<i>Ratibida columnifera</i>	Yellow Prairie Coneflower
RM	<i>Rudbeckia missouriensis</i>	Black Eyed Susan
YG	<i>Yucca glauca</i>	Soapweed

NOTIFY OWNER IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE OWNER.

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DAKE | WELLS  
architecture

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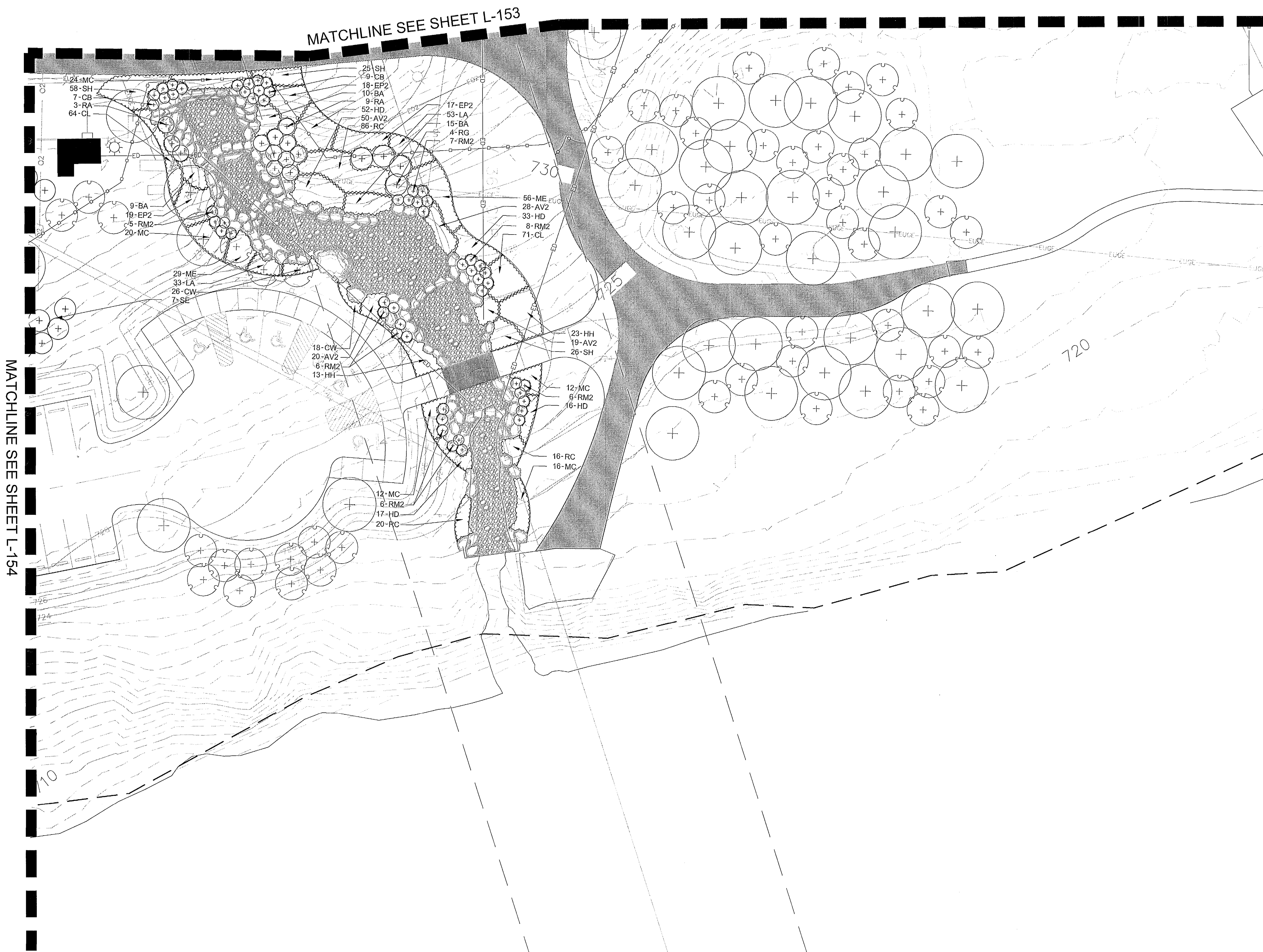
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CONSERVATION NATURE CENTER**

MISSOURI DEPARTMENT OF CONSERVATION  
Hatchery Road  
Branson, MO 65616

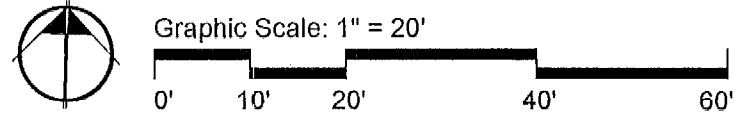
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Checked:	KDR
Job:	14023

**L-154**  
Plotted On: 10/27/2016

UNDERSTORY PLAN



**A UNDERSTORY PLANTING PLAN**  
1" = 20'



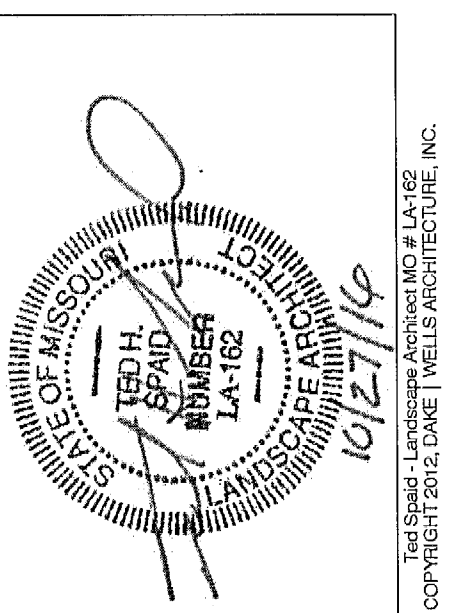
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MISSOURI ONE-CALL SYSTEM INC.

MDC - SHEPHERD OF THE HILLS PLANT LEGEND		
SHRUBS	BOTANICAL NAME	COMMON NAME
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LB	<i>Lindera benzoin</i>	Spicebush
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RB	<i>Rhamnus caroliniana</i>	Carolina Buckthorn
RG	<i>Rhus glabra</i>	Smooth Sumac
RM2	<i>Ribes missouriense</i>	Missouri Gooseberry
SE	<i>Sambucus canadensis</i>	Elderberry
ORNAMENTAL GRASSES		
	BOTANICAL NAME	COMMON NAME
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BC	<i>Bouteloua curtipendula</i>	Side Oats Grama
BG	<i>Bouteloua gracilis</i>	Blue Grama
CE	<i>Carex emoryi</i>	Emory Sedge
CS	<i>Chasmanthium latifolium</i>	Wood Oats
CW	<i>Carex albicans</i>	Whitetinge Sedge
EH	<i>Equisetum hyemale</i>	Horsetail Reed Grass
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MC	<i>Muhlenbergia capillaris</i>	Pink Muhly
PV	<i>Panicum virgatum</i>	Switch Grass
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	BOTANICAL NAME	COMMON NAME
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AC2	<i>Asclepias tuberosa</i>	Butterfly Milkweed
AT2	<i>Amsonia tabernaemontana</i>	Eastern Bluestar
AV	<i>Asclepias verticillata</i>	Whorled Milkweed
BA	<i>Baptisia australis</i>	Blue Wild Indigo
CL	<i>Coreopsis lanceolata</i>	Lanceleaf Tickseed
EP2	<i>Eupatorium purpureum</i>	Savannah Joe-Pye Weed
GM	<i>Geranium maculatum</i>	Spotted Geranium
HA	<i>Helenium autumnale</i>	Sneezeweed
HD	<i>Helianthus divaricatus</i>	Woodland Sunflower
HH	<i>Hypericum hypericoides hypericoides</i>	St. Andrew's Cross
HP	<i>Hypericum punctatum</i>	Spotted St. Johnswort
LA	<i>Liatris aspera</i>	Rough Blazing Star
LS	<i>Lobelia siphilitica</i>	Great Lobelia
ME	<i>Monarda bradburiana</i>	Eastern Bee Balm
RC	<i>Ratibida columnifera</i>	Yellow Prairie Coneflower
RM	<i>Rudbeckia missouriensis</i>	Black Eyed Susan
YG	<i>Yucca glauca</i>	Soapweed

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**SWI DESIGN** DAKE | WELLS  
architectur e

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St. Louis, mo 63119  
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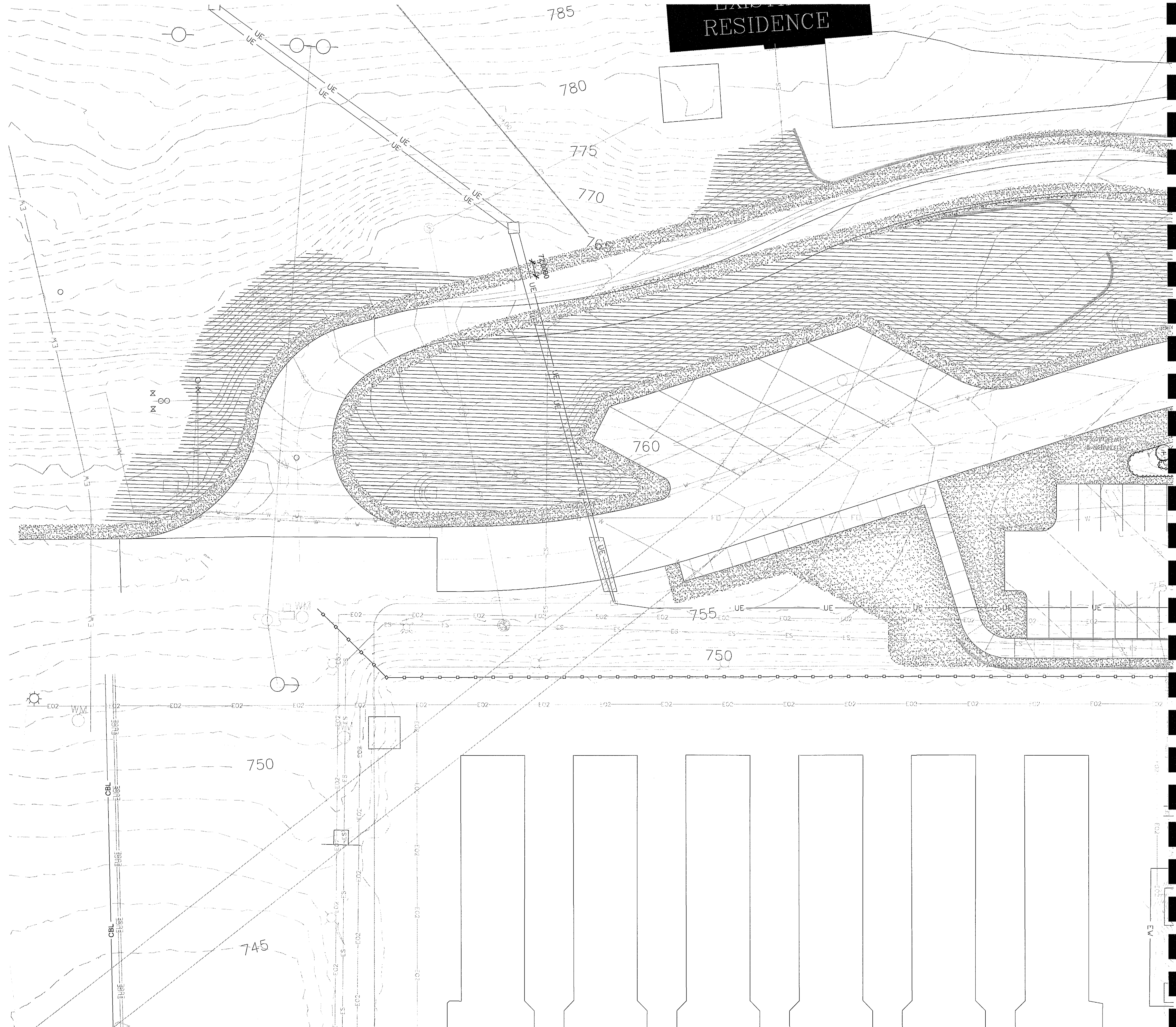
**SHEPHERD OF THE HILLS  
CONSERVATION NATURE CENTER**

MISSOURI DEPARTMENT OF CONSERVATION  
Hatchery Road  
Branson, MO 65616

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Job:	14023

**L-155**  
Plotted On: 10/27/2016

UNDERSTORY PLAN



**A SEED PLAN**  
1" = 20'

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MISSOURI ONE-CALL SYSTEM INC.

MDC - SHEPHERD OF THE HILLS PLANT LEGEND		
GROUND COVERS	BOTANICAL NAME	COMMON NAME
	Buchloe dactyloides 'Prestige'	Buffalo Grass
	Bird Meadow Native Seed Mix	Bird Meadow Seed Mix
	Pollinator Native Seed Mix	Pollinator Seed Mix
	Sedge Meadow Native Seed Mix	Sedge Meadow Mix
	Slope Stabilization Native Seed Mix	Slope Stabilization Seed Mix
	Sod	Drought Tolerant Fescue Blend

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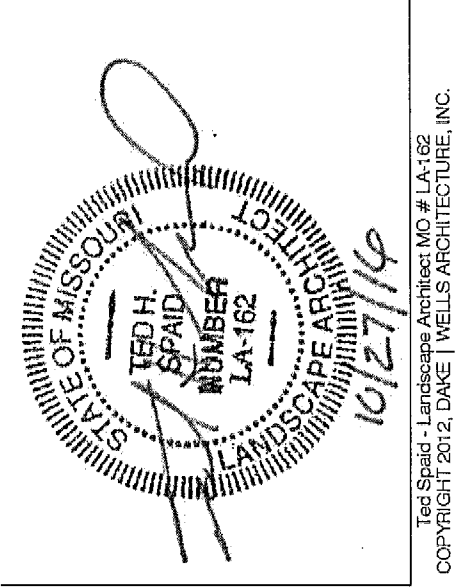
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MISSOURI DEPARTMENT OF CONSERVATION  
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**L-161**  
Plotted On: 10/27/2016

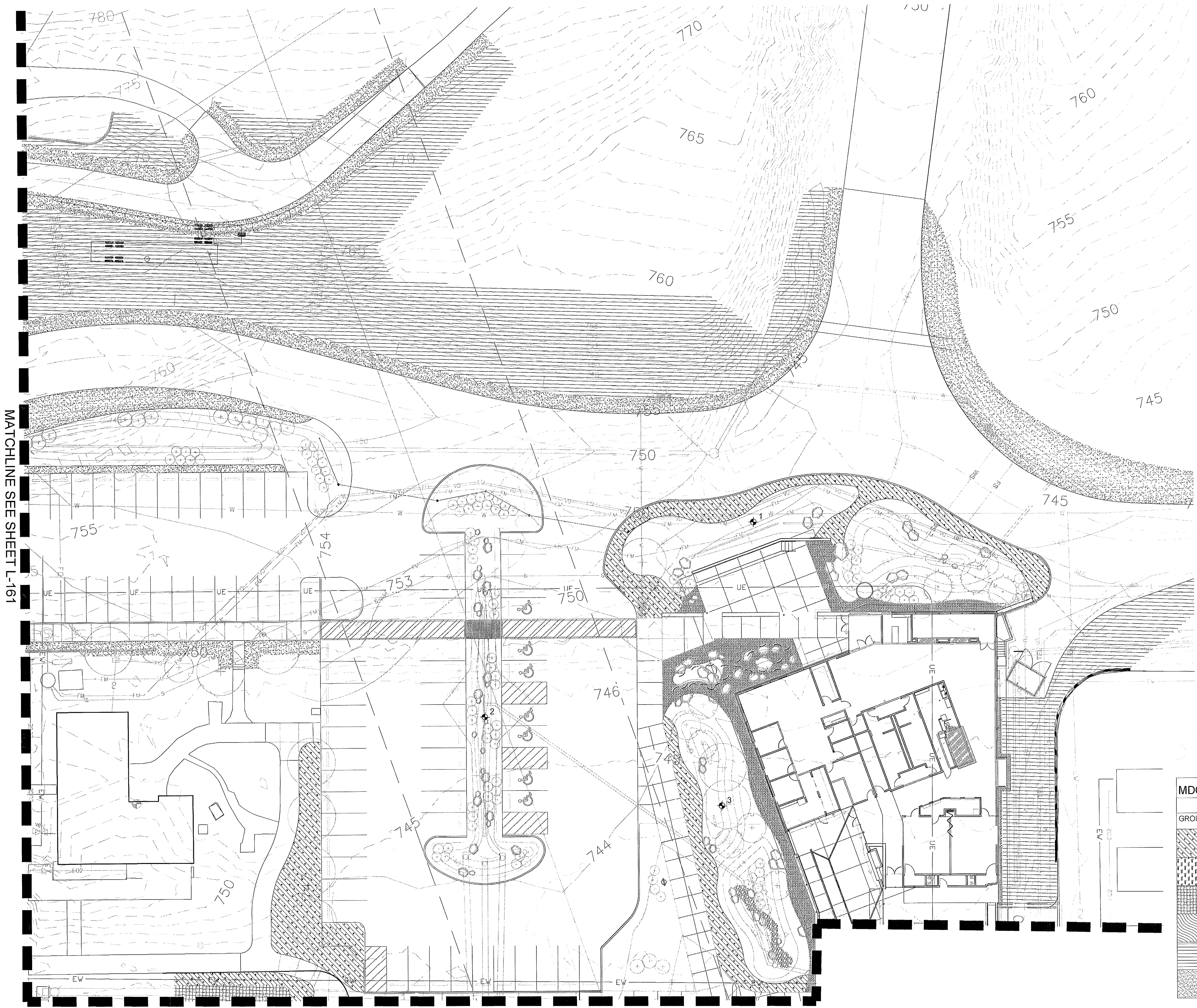
**SEED PLAN**



**SWT DESIGN** DAKE | WELLS  
architecte

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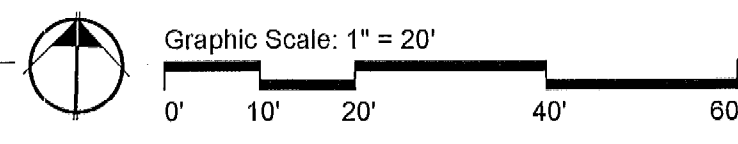


**MDC - SHEPHERD OF THE HILLS PLANT LEGEND**

GROUND COVERS	BOTANICAL NAME	COMMON NAME
	Buchloe dactyloides 'Prestige'	Buffalo Grass
	Bird Meadow Native Seed Mix	Bird Meadow Seed Mix
	Pollinator Native Seed Mix	Pollinator Seed Mix
	Sedge Meadow Native Seed Mix	Sedge Meadow Mix
	Slope Stabilization Native Seed Mix	Slope Stabilization Seed Mix
	Sod	Drought Tolerant Fescue Blend

**A SEED PLAN**  
1" = 20'

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**SWT DESIGN** DAKE WELLS  
architecture

154 Parkside Square, Suite 300  
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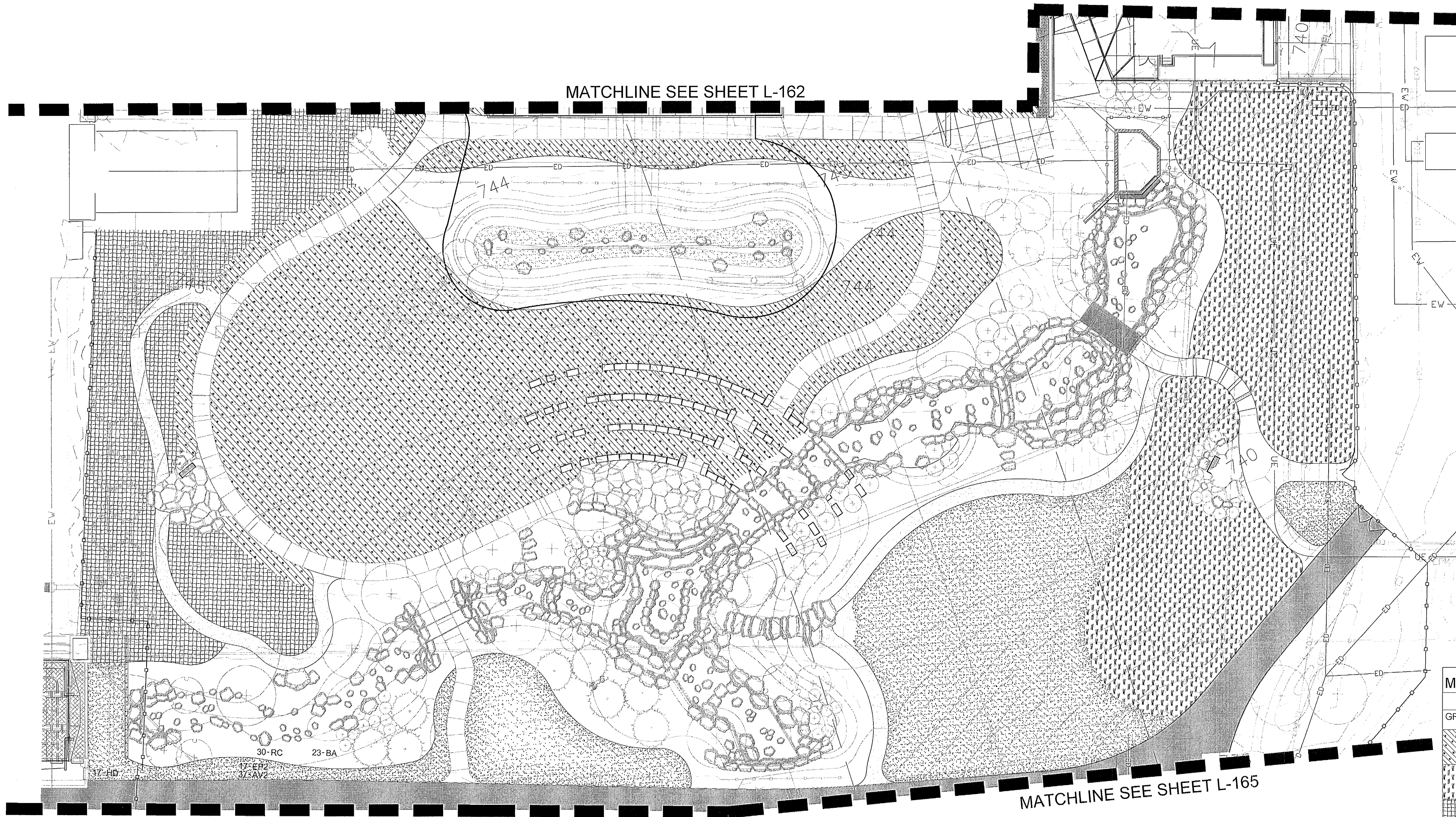
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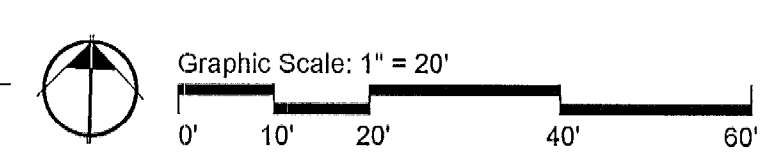
**L-162**  
Plotted On: 10/27/2016

SEED PLAN



**A SEED PLAN**  
1" = 20'

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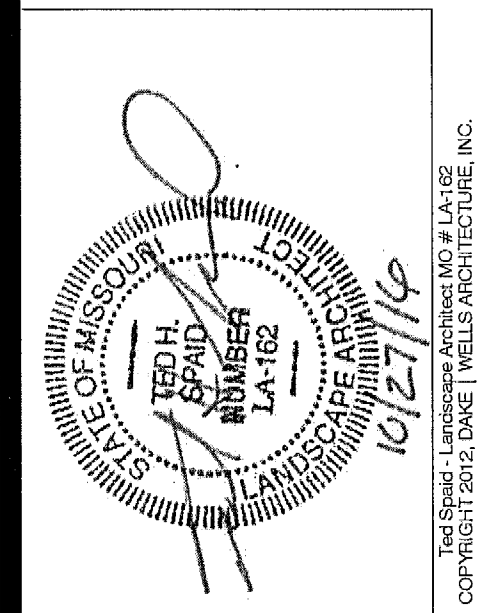


MDC - SHEPHERD OF THE HILLS PLANT LEGEND		
GROUND COVERS	BOTANICAL NAME	COMMON NAME
	Buchloe dactyloides 'Prestige'	Buffalo Grass
	Bird Meadow Native Seed Mix	Bird Meadow Seed Mix
	Pollinator Native Seed Mix	Pollinator Seed Mix
	Sedge Meadow Native Seed Mix	Sedge Meadow Mix
	Slope Stabilization Native Seed Mix	Slope Stabilization Seed Mix
	Sod	Drought Tolerant Fescue Blend

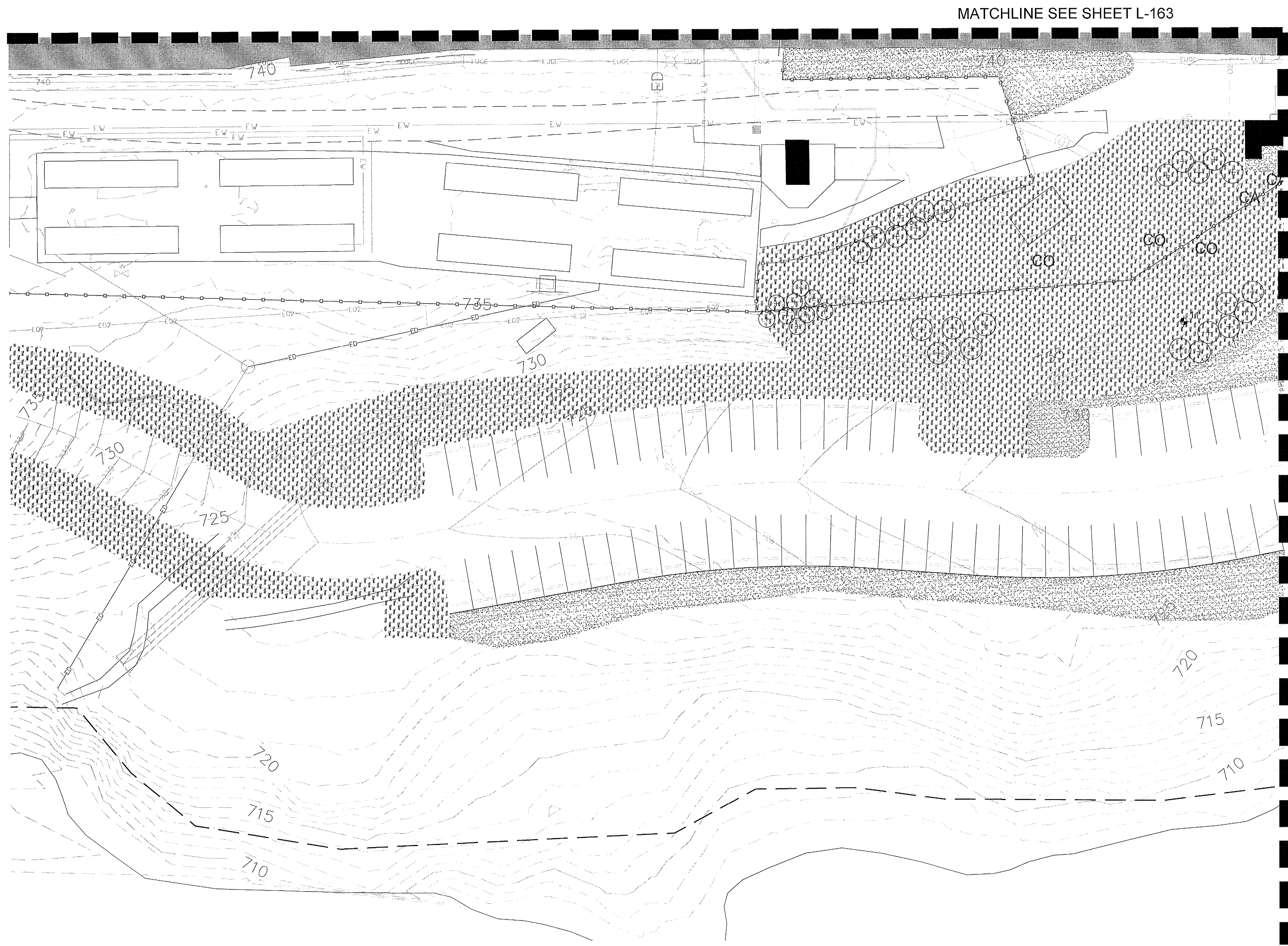
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**SHEPHERD OF THE HILLS  
CONSERVATION NATURE CENTER**  
MISSOURI DEPARTMENT OF CONSERVATION  
Hatchery Road  
Branson, MO 65616



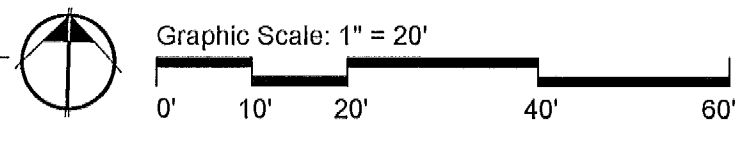
**SWT DESIGN** DAKE IWELLS  
architecture  
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MATCHLINE SEE SHEET L-165

**A SEED PLAN**  
1" = 20'



**MDC - SHEPHERD OF THE HILLS PLANT LEGEND**

GROUND COVERS	BOTANICAL NAME	COMMON NAME
	Buchloe dactyloides 'Prestige'	Buffalo Grass
	Bird Meadow Native Seed Mix	Bird Meadow Seed Mix
	Pollinator Native Seed Mix	Pollinator Seed Mix
	Sedge Meadow Native Seed Mix	Sedge Meadow Mix
	Slope Stabilization Native Seed Mix	Slope Stabilization Seed Mix
	Sod	Drought Tolerant Fescue Blend

Issued:	TBD
Revised:	
Scale:	AS NOTED
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Checked:	KDR
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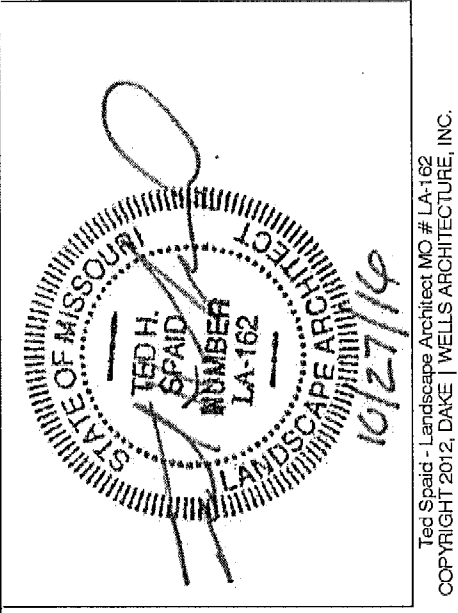
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Branson, MO 65616

**L-164**  
Plotted On: 10/27/2016  
**SEED PLAN**

**SWT DESIGN** DAIKE | WELLS  
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