

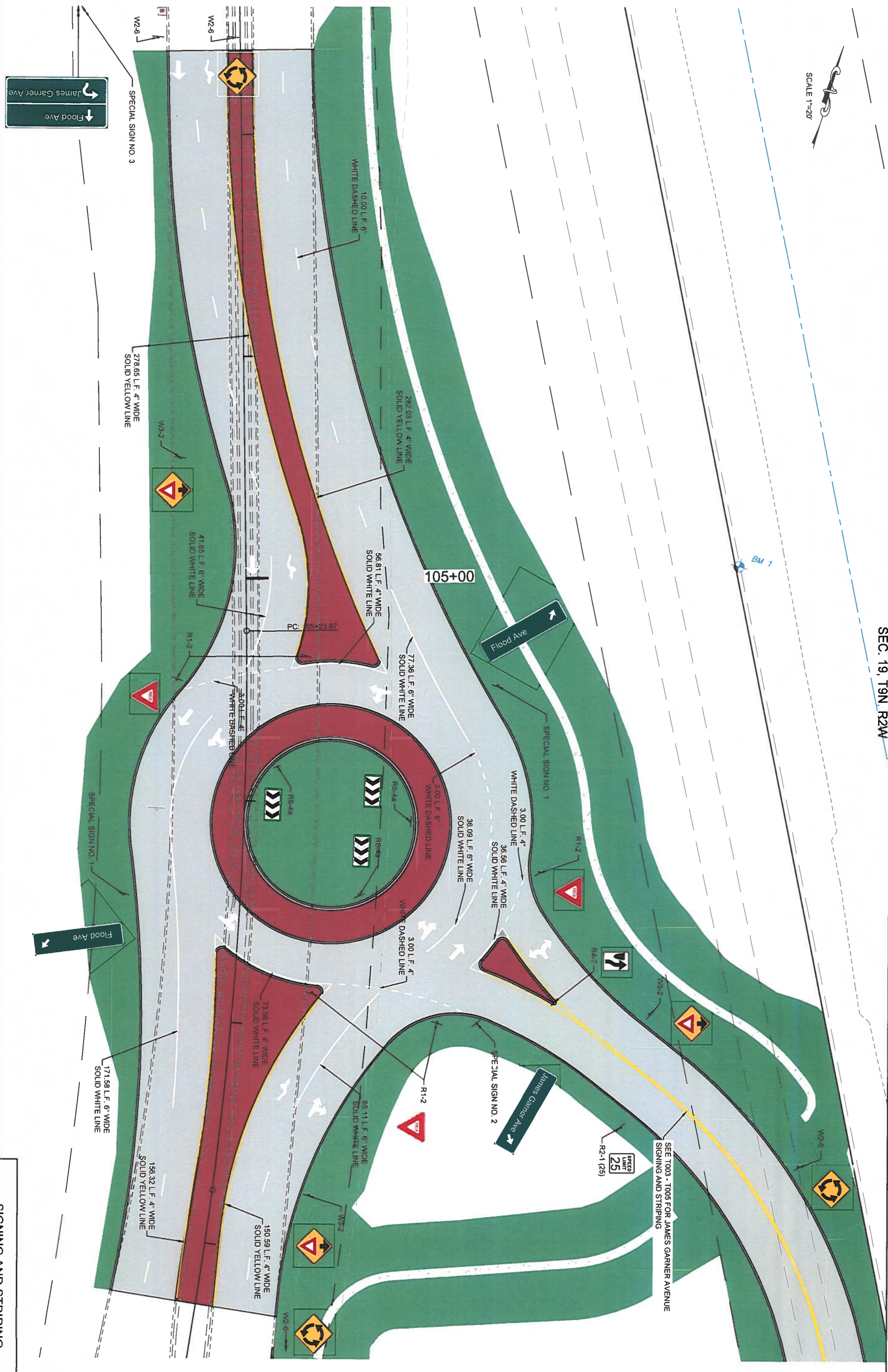
Point #	Description	Elevation	X	Y
2	FL Gutter	1190.93	2131681.2179	692254.3952
3	FL Gutter	1191.32	2131708.5861	692259.3541
6	FL Gutter	1191.22	2131707.5004	692272.3288
7	FL Gutter	1190.85	2131700.7297	692323.8784
10	FL Gutter	1190.53	2131693.0787	692368.9210
11	FL Gutter	1190.46	2131682.0331	692413.0547
15	FL Gutter	1190.61	2131686.1021	692416.4662
16	FL Gutter	1190.60	2131707.6289	692411.10523
18	FL Gutter	1190.60	2131728.8411	692412.2003
19	FL Gutter	1190.46	2131733.2141	692408.0954
22	FL Gutter	1190.66	2131718.5174	692350.8998
23	FL Gutter	1191.13	2131721.1644	692281.9055
27	FL Gutter	1190.87	2131752.8316	692271.7650
30	FL Gutter	1190.43	2131750.4872	692338.3781
31	FL Gutter	1189.99	2131767.6392	692368.6254
34	FL Gutter	1189.81	2131784.4132	692414.7083
35	FL Gutter	1189.83	2131808.6053	692419.5141
38	FL Gutter	1189.26	2131860.5270	692406.1594
39	FL Gutter	1189.17	2131881.8235	692397.5001
42	FL Gutter	1189.10	2131940.2439	692360.7636
43	FL Gutter	1189.10	2131963.0820	692385.9513
46	FL Gutter	1189.17	2131884.6289	692428.8961
47	FL Gutter	1189.26	2131873.3334	692437.6553
50	FL Gutter	1189.41	2131843.9713	692452.5168
51	FL Gutter	1189.56	2131817.4438	692471.9820
54	FL Gutter	1189.62	2131808.5650	692483.0376
55	FL Gutter	1189.69	2131804.0951	692496.4862
59	FL Gutter	1189.45	2131775.8802	692525.7899
62	FL Gutter	1188.81	2131673.8719	692671.6413
63	FL Gutter	1188.16	2131607.0664	692815.6140
66	FL Gutter	1188.97	2131582.1409	692807.8623
67	FL Gutter	1189.07	2131580.2471	692781.7970
70	FL Gutter	1189.53	2131640.6462	692865.0896
71	FL Gutter	1190.09	2131714.5023	692861.6200
74	FL Gutter	1190.25	2131712.2675	692556.6302
75	FL Gutter	1190.26	2131697.1126	692554.4498
78	FL Gutter	1190.28	2131682.6552	692549.1157
79	FL Gutter	1190.15	2131678.3267	692551.8893
82	FL Gutter	1189.89	2131674.1452	692583.4471
83	FL Gutter	1189.79	2131680.2577	692612.0918
86	FL Gutter	1189.22	2131578.6738	692778.2807
87	FL Gutter	1189.51	2131613.0187	692892.0110
90	FL Gutter	1188.43	2131553.9149	692770.5356
91	FL Gutter	1188.81	2131584.5755	692891.9422
94	FL Gutter	1189.19	2131625.9838	692818.3843
95	FL Gutter	1189.43	2131642.2257	692870.8432
98	FL Gutter	1189.68	2131633.2986	692521.4037
99	FL Gutter	1189.81	2131625.0153	692484.5397
102	FL Gutter	1189.86	2131632.5923	692447.5239
103	FL Gutter	1190.42	2131684.9741	692352.9911
105	FL Gutter	1190.97	2131709.5503	692428.9549
108	FL Gutter	1190.60	2131765.0342	692463.3395
109	FL Gutter	1190.64	2131701.7711	692358.0297
112	FL Gutter	1190.53	2131681.0112	692483.6780
113	Apron	1191.59	2131711.0872	692444.8780
116	Apron	1191.22	2131751.1389	692468.9884
118	Apron	1191.26	2131705.4489	692521.4876
119	Apron	1191.15	2131676.0112	692483.6780

Point #	Description	Elevation	X	Y
121	Roundabout Center	1191.84	2131715.0112	692483.6780
122	FL Gutter	1189.87	2131799.4767	692439.8699
125	FL Gutter	1189.76	2131834.7154	692435.0060
126	FL Gutter	1189.87	2131806.0672	692456.0988
129	FL Gutter	1189.89	2131801.2926	692454.7555
130	FL Gutter	1189.92	2131799.3093	692448.4022
133	FL Gutter	1189.90	2131796.9942	692444.1838
134	FL Gutter	1189.29	2131548.8454	692786.5745
137	FL Gutter	1189.11	2131570.7147	692804.3088
138	FL Gutter	1191.38	2131727.3116	692280.4534
141	FL Gutter	1190.92	2131754.7476	692284.0593

STATE JOB NO. 35323(04)
ROUNDABOUT GRADING POINTS
 SHEET NO. R023



SEC. 19, T9N, R2W



SIGNING AND STRIPING
ROUNDABOUT

STATE JOB NO. 3523(04) SHEET NO. T007

LANDSCAPE AND IRRIGATION PAY QUANTITIES SHEET BA07

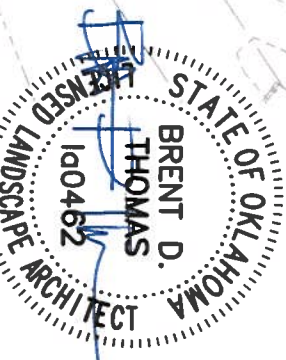
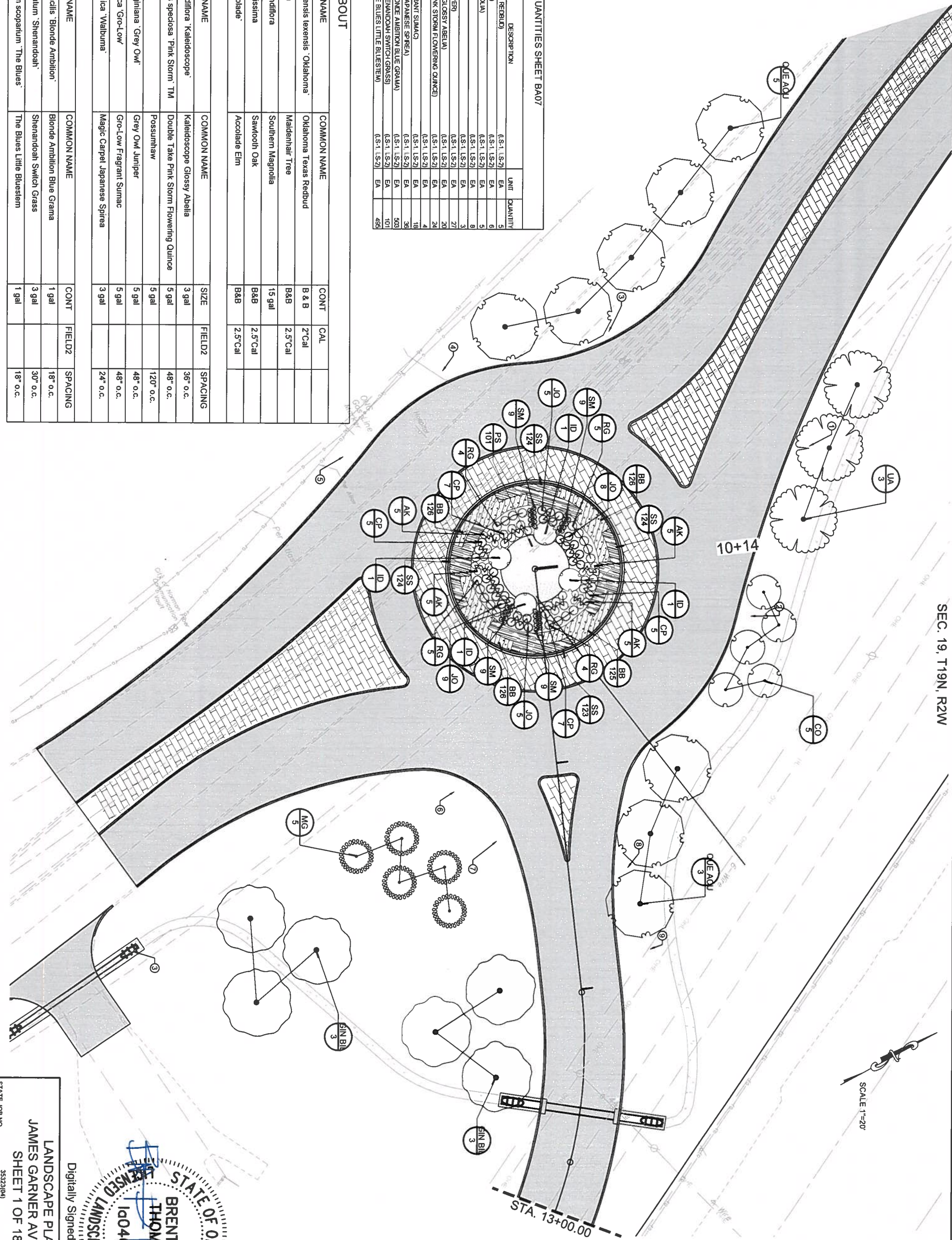
ITEM NO	CODE	DESCRIPTION	UNIT	QUANTITY
231(A)	4567	TREES (OKLAHOMA TEXAS REDBUD)	(1.5'-1.5'-2)	EA 5
231(A)	4567	TREES (MAIDENHAIR TREE)	(1.5'-1.5'-2)	EA 6
231(A)	4567	TREES (SOUTHERN MAGNOLIA)	(1.5'-1.5'-2)	EA 5
231(A)	4567	TREES (SAWTOOTH OAK)	(1.5'-1.5'-2)	EA 8
231(A)	4567	TREES (ACCOLADE ELM)	(1.5'-1.5'-2)	EA 2
231(B)	4568	SHRUBS (GREY OWL JUNIPER)	(1.5'-1.5'-2)	EA 27
231(B)	4568	SHRUBS (KALEIDOSCOPE GLOSSY ABELIA)	(1.5'-1.5'-2)	EA 20
231(B)	4568	SHRUBS (DOUBLE TAKE PINK STORM FLOWERING QUINCE)	(1.5'-1.5'-2)	EA 24
231(B)	4568	SHRUBS (POSSUMHAW)	(1.5'-1.5'-2)	EA 4
231(B)	4568	SHRUBS (GREY OWL JUNIPER)	(1.5'-1.5'-2)	EA 18
231(B)	4568	SHRUBS (MAGIC CARPET JAPANESE SPREAR)	(1.5'-1.5'-2)	EA 36
231(C)	4569	WESIGRAND COVERS (BLONDE AMBITION BLUE GRAMA)	(1.5'-1.5'-2)	EA 503
231(C)	4569	WESIGRAND COVERS (SHERWOOD SWITCH GRASS)	(1.5'-1.5'-2)	EA 101
231(C)	4569	WESIGRAND COVERS (THE BLUES LITTLE BLUESTEM)	(1.5'-1.5'-2)	EA 101
231(C)	4569	WESIGRAND COVERS (THE BLUES LITTLE BLUESTEM)	(1.5'-1.5'-2)	EA 495

PLANT SCHEDULE ROUNDABOUT

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
CO	5	Cercis canadensis texensis 'Oklahoma'	Oklahoma Texas Redbud	B & B	2"Cal
GIN BIL	6	Ginkgo biloba	Maidenhair Tree	B&B	2.5"Cal
MGG	5	Magnolia grandiflora	Southern Magnolia	15 gal	
QUE ACU	8	Quercus acutissima	Sawtooth Oak	B&B	2.5"Cal
UA	3	Ulmus x 'Accolade'	Accolade Elm	B&B	2.5"Cal

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	FIELD2	SPACING
AK	20	Abelia x grandiflora 'Kaleidoscope'	Kaleidoscope Glossy Abelia	3 gal		36" o.c.
CP	24	Chaenomeles speciosa 'Pink Storm TM'	Double Take Pink Storm Flowering Quince	5 gal		48" o.c.
ID	4	Ilex decidua	Possunhaw	5 gal		120" o.c.
JO	27	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	5 gal		48" o.c.
RG	18	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal		48" o.c.
SM	36	Spiraea japonica 'Walburna'	Magic Carpet Japanese Spiraea	3 gal		24" o.c.

SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	CONT	FIELD2	SPACING
BB	503	Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Blue Grama	1 gal		18" o.c.
PS	101	Panicum virgatum 'Sherandoah'	Sherandoah Switch Grass	3 gal		30" o.c.
SS	495	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	1 gal		18" o.c.

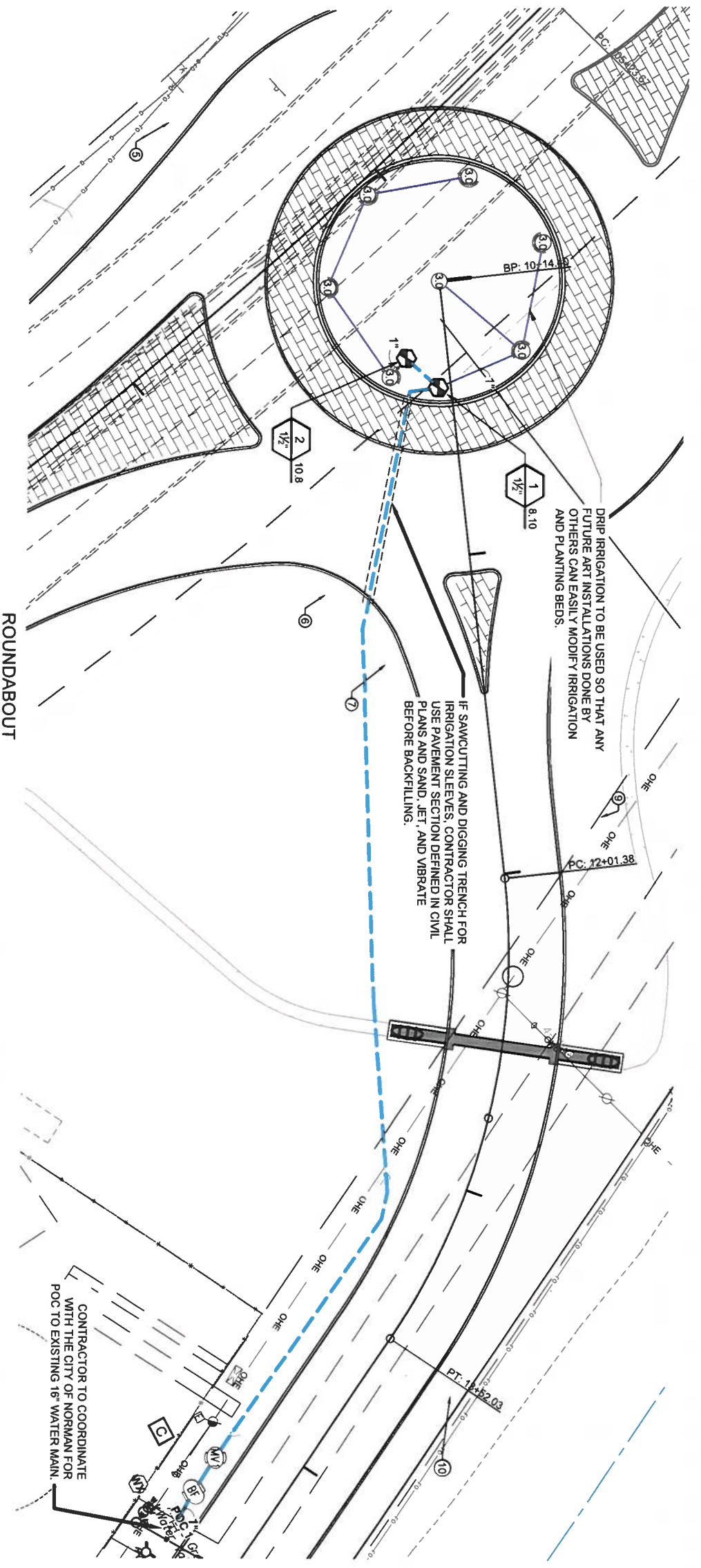


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LANDSCAPE PLAN
 JAMES GARNER AVENUE
 SHEET 1 OF 18

STATE JOB NO. 35323(04)
 SHEET NO. BA07

SEC. 19, T19N, R2W



SCALE 1"=20'

CRITICAL ANALYSIS

Generated: 2022-07-11 17:39

P.O.C. NUMBER: 01

Water Source Information: POC

FLOW AVAILABLE

Point of Connection Size: 12"

Flow Available: 2,937 GPM

PRESSURE AVAILABLE

Static Pressure at POC: 60.00 PSI

Pressure Available: 60.00 psi

DESIGN ANALYSIS

Maximum Station Flow: 10.8 GPM

Flow Available at POC: 2,937 GPM

Residual Flow Available: 2,926 GPM

Critical Station: 2

Design Pressure: 35 PSI

Friction Loss: 1.3 PSI

Fittings Loss: 0.13 PSI

Elevation Loss: 0 PSI

Loss through Valve: 1.5 PSI

Pressure Req. at Critical Station: 37.93 PSI

Loss for Fittings: 1.18 PSI

Loss for Main Line: 11.83 PSI

Loss for POC to Valve Elevation: 0 PSI

Loss for Backflow: 2.5 PSI

Loss for Master Valve: 1.5 PSI

Critical Station Pressure at POC: 54.94 PSI

Pressure Available: 60 PSI

Residual Pressure Available: 5.06 PSI

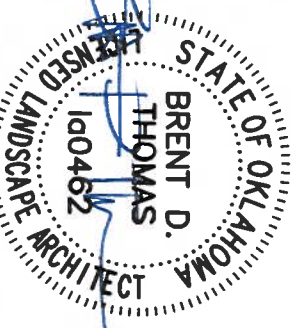
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS	DETAIL
⊙	Hunter PGP-12 Shrub Rotor, 12" Pop-Up, Adjustable to Full Circle.	7	35	2.70	36"	
⊕	Hunter ICV-G 1" 1-1/2", 2" and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	2				
⊕	Hunter IBV 1-1/2" 1" 1-1/2", 2" and 3" Brass Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1				
⊕	Fabco 765 1-1/2" Pressure Vacuum Breaker, brass with ball valve SOV. Install 12" above highest downstream outlet and the highest point in the downstream piping.	1				
POC 1	Point of Connection 12"	1				
---	Irrigation Lateral Line, PVC Schedule 40	217.21L				
---	Irrigation Mainline, PVC Schedule 40	396.81L				

LANDSCAPE AND IRRIGATION

PAY QUANTITIES SHEET BA20

ITEM NO	CODE	DESCRIPTION	UNIT	QUANTITY
SPEC		IRRIGATION SYSTEM	(U.S.) LS-41	LSUM
				1

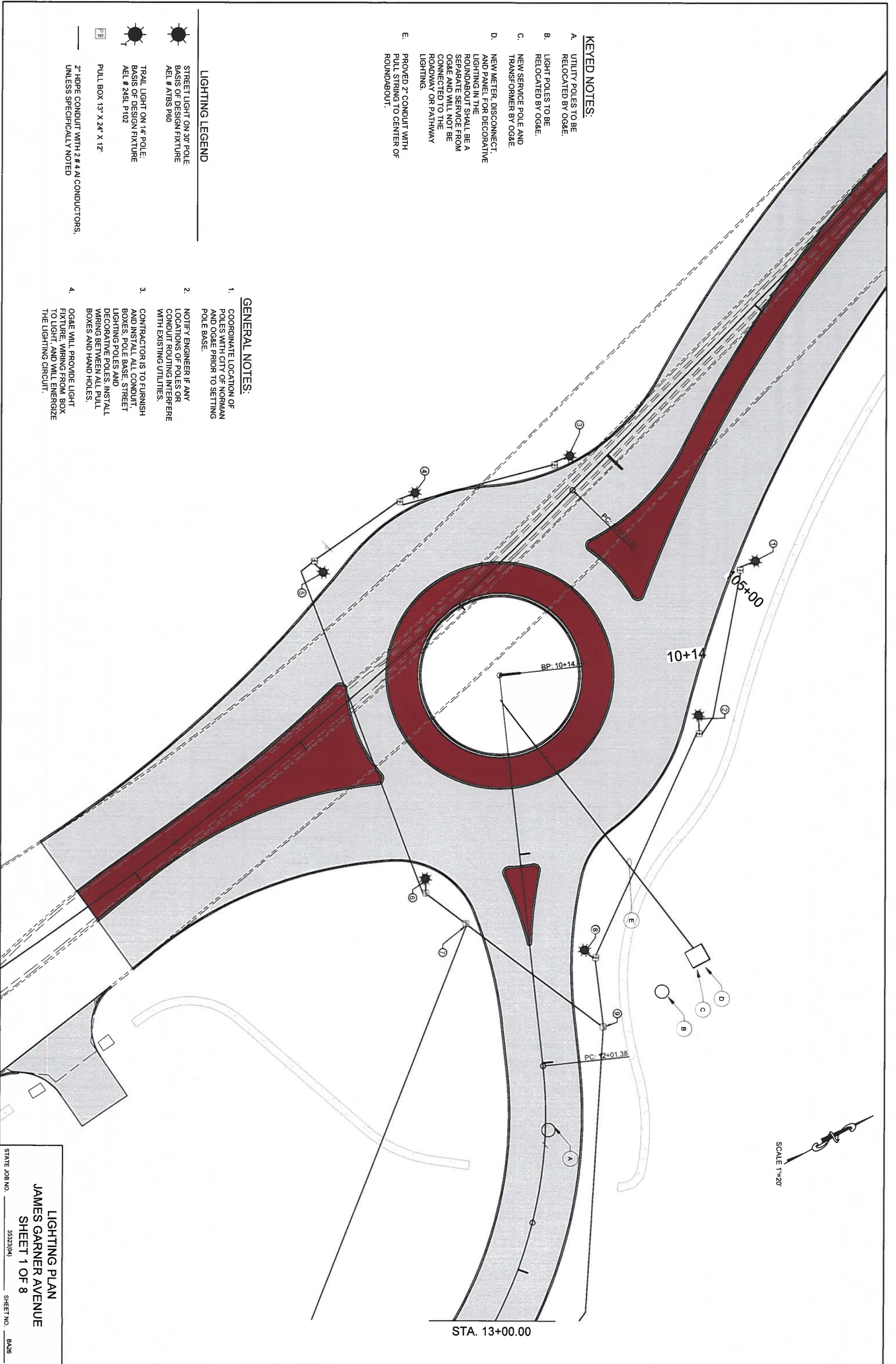


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IRRIGATION PLAN
JAMES GARNER AVENUE
SHEET 14 OF 18

STATE JOB NO. 35323(04) SHEET NO. BA20

SCALE 1"=20'







KEYED NOTES:

- A. UTILITY POLES TO BE RELOCATED BY OG&E.
- B. LIGHT POLES TO BE RELOCATED BY OG&E.
- C. NEW SERVICE POLE AND TRANSFORMER BY OG&E.
- D. NEW METER, DISCONNECT, AND PANEL FOR DECORATIVE LIGHTING IN THE ROUNDABOUT SHALL BE A SEPARATE SERVICE FROM OG&E AND WILL NOT BE CONNECTED TO THE ROADWAY OR PATHWAY LIGHTING.
- E. PROVIDED 2" CONDUIT WITH PULL STRING TO CENTER OF ROUNDABOUT.

GENERAL NOTES:

- 1. COORDINATE LOCATION OF POLES WITH CITY OF NORMAN AND OG&E PRIOR TO SETTING POLE BASE.
- 2. NOTIFY ENGINEER IF ANY LOCATIONS OF POLES OR CONDUIT ROUTING INTERFERE WITH EXISTING UTILITIES.
- 3. CONTRACTOR IS TO FURNISH AND INSTALL ALL CONDUIT, BOXES, POLE BASE, STREET LIGHTING POLES AND DECORATIVE POLES. INSTALL WIRING BETWEEN ALL PULL BOXES AND HAND HOLES.
- 4. OG&E WILL PROVIDE LIGHT FIXTURE, WIRING FROM BOX TO LIGHT, AND WILL ENERGIZE THE LIGHTING CIRCUIT.

LIGHTING LEGEND

-  STREET LIGHT ON 30' POLE. BASIS OF DESIGN FIXTURE AEL # ATBS P60
-  TRAIL LIGHT ON 14' POLE. BASIS OF DESIGN FIXTURE AEL # 245L P102
-  PULL BOX 13" X 24" X 12"
-  2" HDPE CONDUIT WITH 2 # 4 AW CONDUCTORS, UNLESS SPECIFICALLY NOTED

LIGHTING PLAN
 JAMES GARNER AVENUE
 SHEET 1 OF 8

STATE JOB NO. 35323(04) SHEET NO. BA26