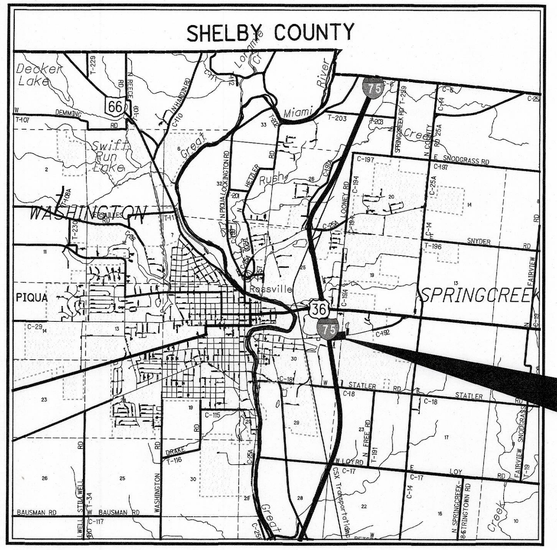

LOCATION MAP

LATITUDE: 40°8'46" LONGITUDE: 84°13'2"

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

	LOONEY ROAD	GARBRY ROAD
CURRENT ADT (2017)	3,170	1,410
DESIGN YEAR ADT (2037)	7,660	5,840
DESIGN HOURLY VOLUME (2037)	766	584
DIRECTIONAL DISTRIBUTION	70%	63%
TRUCKS (24 HOUR B&C)	7%	5%
DESIGN SPEED	35	35
LEGAL SPEED	35	35
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN MAJOR COLLECTOR	URBAN MAJOR COLLECTOR

NHS PROJECT NO

DESIGN EXCEPTIONS

NONE

CITY OF PIQUA

MIA-LOONEY RD & GARBRY RD ROUNDABOUT

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2 - 4
TYPICAL SECTIONS	5 - 8
GENERAL NOTES	9 - 10
MAINTENANCE OF TRAFFIC	11 - 17
GENERAL SUMMARY	18 - 20
ROADWAY SUBSUMMARIES	21 - 24
CALCULATIONS	25
PROJECT SITE PLAN	26
PLAN AND PROFILES	27 - 30
CROSS SECTIONS	31 - 40
PAVEMENT DETAILS	41 - 42
GRADING PLAN	43
DRIVE DETAILS	44
STORM SEWER PROFILES	45 - 46
SEEDING AND MULCHING PLAN	47
TRAFFIC CONTROL	48 - 56
LIGHTING PLANS	57 - 59
LANDSCAPING PLANS	60 - 61
RIGHT-OF-WAY	62 - 70

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A ROUNDABOUT AT THE INTERSECTION OF LOONEY ROAD AND GARBRY ROAD IN THE CITY OF PIQUA. THIS PROJECT INCLUDES THE CONSTRUCTION OF ASPHALT PAVEMENT, CURB, SIDEWALK, STORM WATER DRAINAGE, STREET LIGHTING AND TRAFFIC CONTROL.

PROJECT EARTH DISTURBED AREA:	2.40 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	4.90 ACRES

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES TWO WORKING DAYS **BEFORE YOU DIG.**

OHIO Utilities Protection SERVICE

Call Before You Dig **1-800-362-2764**

(Non-members must be called directly)

OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE **1-800-925-0988**

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 14 AND 16 .

APPROVED Amy L. Havenar
DATE 1/9/18 PIQUA CITY ENGINEER

APPROVED Randy Chevalley, P.E. P.S. / RPH
DATE 1-31-18 DISTRICT DEPUTY DIRECTOR

APPROVED
DATE DIRECTOR, DEPARTMENT OF TRANSPORTATION

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	7/18/14	RM-1.1	7/18/14	MT-97.12	1/20/17			800-2016	**1/19/18**	
BP-4.1	7/19/13			MT-99.20	7/21/17			821	4/20/12	
BP-5.1	7/19/13	LA-1.1	10/15/10	MT-101.60	1/20/17			832	1/17/14	
BP-7.1	7/18/14	LA-1.2	1/16/09	MT-101.90	7/21/17			861	1/16/15	
				MT-102.20	7/18/14			895	4/18/14	
CB-1.1	1/15/16	HL-20.11	4/21/17	MT-105.10	7/19/13			902	12/31/12	
CB-2.2	1/15/16	HL-30.11	**1/19/18**	MT-110.10	7/19/13			921	4/20/12	
		HL-30.21	1/17/14					995	7/17/15	
MH-1.2	1/15/16	HL-30.22	1/17/14	TC-41.20	10/18/13					
		HL-40.20	1/20/17	TC-41.40	10/18/13					
DM-1.1	7/21/17	HL-60.11	7/21/17	TC-42.20	10/18/13					
DM-1.2	1/18/13	HL-60.31	**1/19/18**	TC-52.10	10/18/13					
DM-4.1	1/15/16			TC-52.20	**1/19/18**					
DM-4.3	1/15/16	MT-95.31	7/21/17	TC-71.10	**1/19/18**					
DM-4.4	1/15/16	MT-95.32	7/21/17							
		MT-97.10	7/18/14							

ENGINEERS SEAL:

STATE OF OHIO ABIGAIL M. CUEVA E-68396 REGISTERED PROFESSIONAL ENGINEER

SIGNED: Abigail M Cueva
DATE: 10/31/17

PLAN PREPARED BY:

EMH&T
Evans, Mechwart, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Fax: 614.775.4800
M C M X X V I

FEDERAL PROJECT NO. E140 (974)

PID NO. 97898

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

MIA-LOONEY/ GARBRY RNDBT

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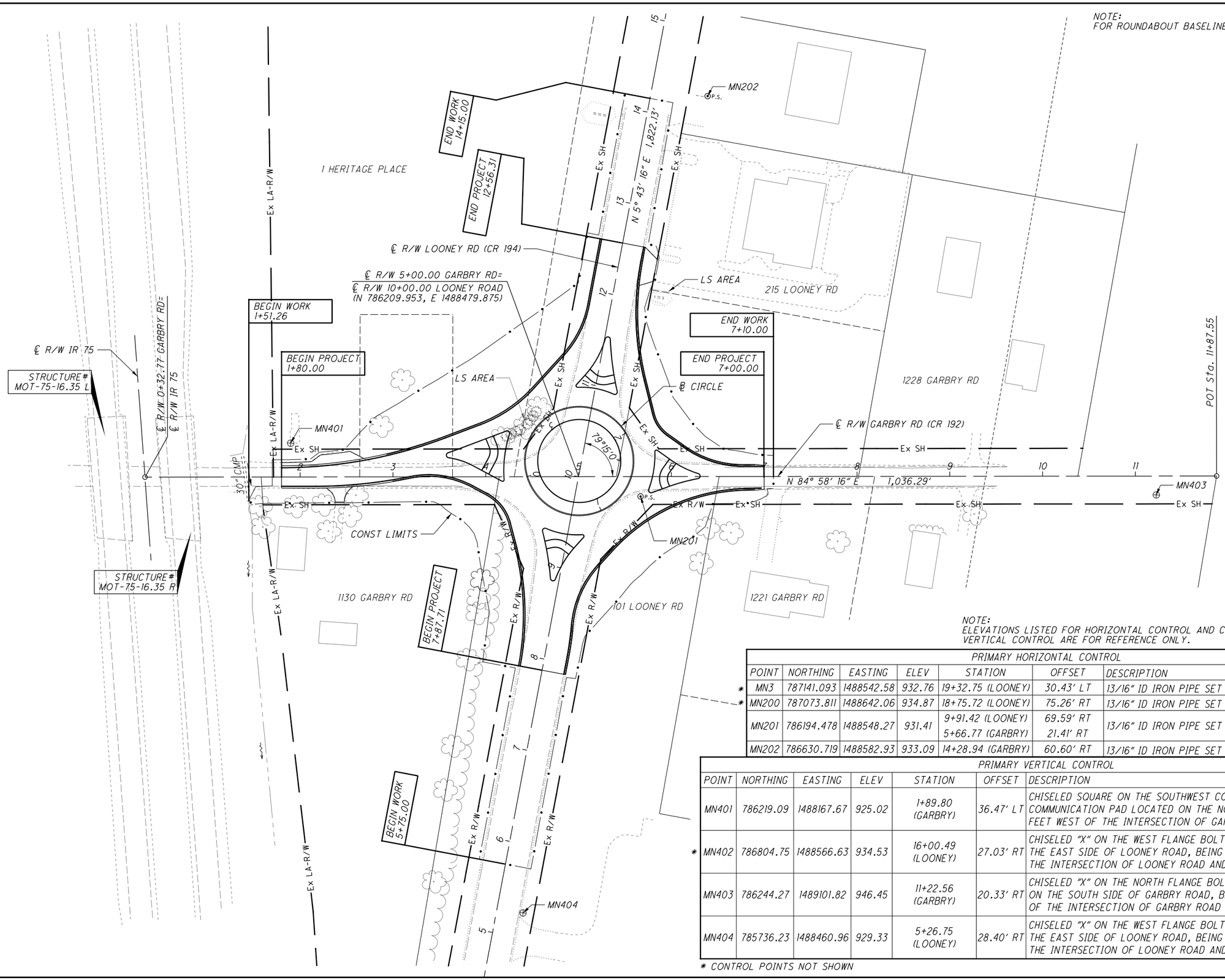
NOTE:
FOR ROUNDABOUT BASELINE GEOMETRY SEE SHEETS 3 - 4



NOTE:
ELEVATIONS LISTED FOR HORIZONTAL CONTROL AND COORDINATES LISTED FOR VERTICAL CONTROL ARE FOR REFERENCE ONLY.

PRIMARY HORIZONTAL CONTROL

	POINT	NORTHING	EASTING	ELEV	STATION	OFFSET	DESCRIPTION
*	MN3	787141.093	1488542.58	932.76	19+32.75 (LOONEY)	30.43' LT	13/16" ID IRON PIPE SET W/"EMHT TRAV" CAP SET
*	MN200	787073.811	1488642.06	934.87	18+75.72 (LOONEY)	75.26' RT	13/16" ID IRON PIPE SET W/"EMHT TRAV" CAP SET
	MN201	786194.478	1488548.27	931.41	9+91.42 (LOONEY) 5+66.77 (GARBRY)	69.59' RT 21.41' RT	13/16" ID IRON PIPE SET W/"EMHT TRAV" CAP SET
	MN202	786630.719	1488582.93	933.09	14+28.94 (GARBRY)	60.60' RT	13/16" ID IRON PIPE SET W/"EMHT TRAV" CAP SET

PRIMARY VERTICAL CONTROL

	POINT	NORTHING	EASTING	ELEV	STATION	OFFSET	DESCRIPTION
	MN401	786219.09	1488167.67	925.02	1+89.80 (GARBRY)	36.47' LT	CHISELED SQUARE ON THE SOUTHWEST CORNER OF A CONCRETE COMMUNICATION PAD LOCATED ON THE NORTH SIDE OF GARBRY ROAD, 250 FEET WEST OF THE INTERSECTION OF GARBRY ROAD AND LOONEY ROAD.
*	MN402	786804.75	1488566.63	934.53	16+00.49 (LOONEY)	27.03' RT	CHISELED "X" ON THE WEST FLANGE BOLT OF A FIRE HYDRANT LOCATED ON THE EAST SIDE OF LOONEY ROAD, BEING THE SECOND HYDRANT NORTH OF THE INTERSECTION OF LOONEY ROAD AND GARBRY ROAD.
	MN403	786244.27	1489101.82	946.45	11+22.56 (GARBRY)	20.33' RT	CHISELED "X" ON THE NORTH FLANGE BOLT OF A FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF GARBRY ROAD, BEING THE SECOND HYDRANT EAST OF THE INTERSECTION OF GARBRY ROAD AND LOONEY ROAD.
	MN404	785736.23	1488460.96	929.33	5+26.75 (LOONEY)	28.40' RT	CHISELED "X" ON THE WEST FLANGE BOLT OF A FIRE HYDRANT LOCATED ON THE EAST SIDE OF LOONEY ROAD, BEING THE SECOND HYDRANT SOUTH OF THE INTERSECTION OF LOONEY ROAD AND GARBRY ROAD.

* CONTROL POINTS NOT SHOWN

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SEA
CHECKED AKB

SCHEMATIC PLAN

MIA-LOONEY/ GARBRY RNDBT

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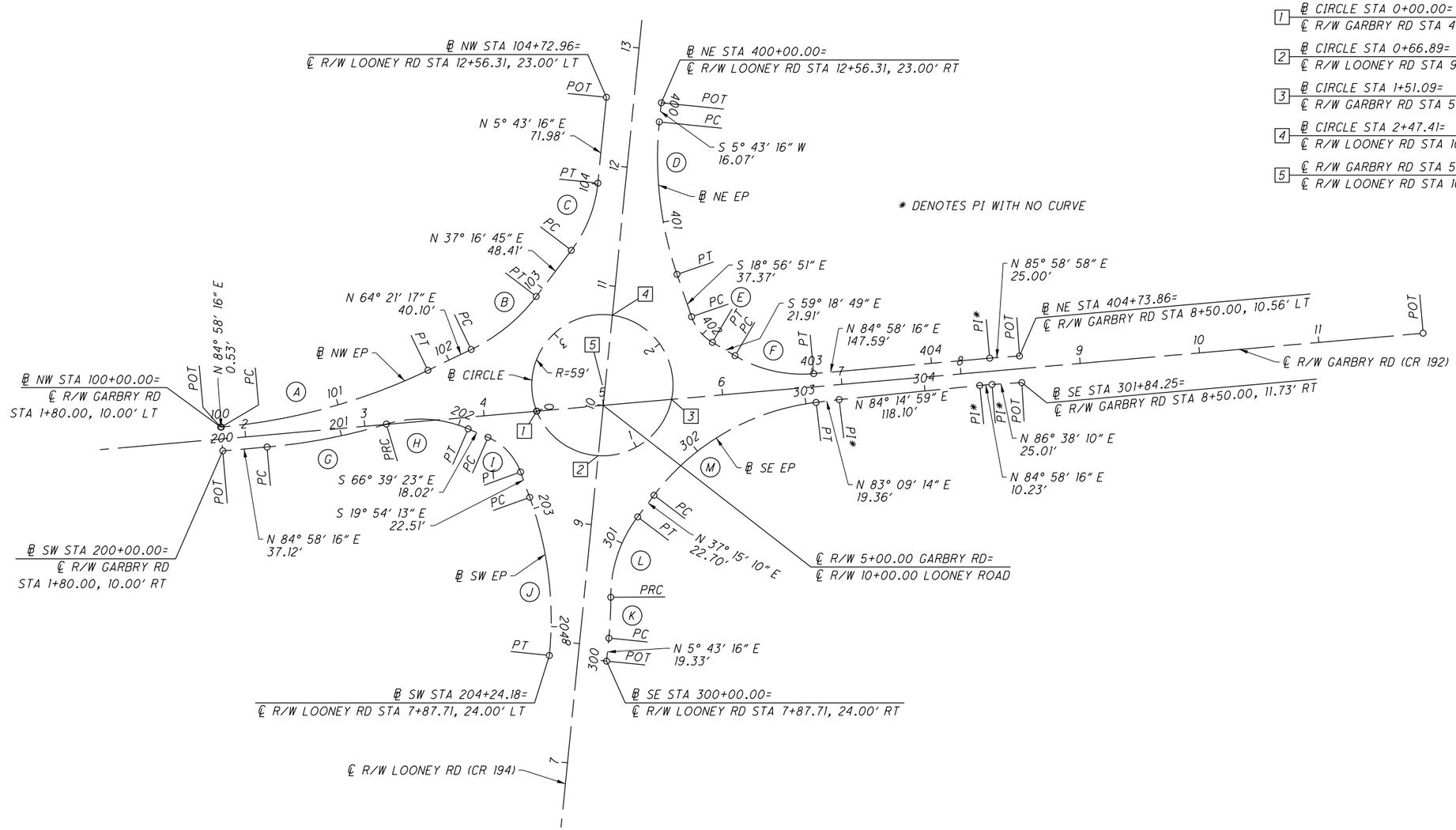

BASELINE CURVE DATA (EDGE OF PAVEMENT)

℄	CURVE	DELTA	R	T	L	BEGIN CURVE					PI STATION	END CURVE				
						℄ STATION	REF ℄	STA	OFFSET	SIDE		℄ STATION	REF ℄	STA	OFFSET	SIDE
NW	A	20°36′59″	500.00′	90.94′	179.91′	100+00.53	GARBRY	1+80.53	10.00′	LT	100+91.47	101+80.45	GARBRY	3+56.59	42.02′	LT
	B	27°04′32″	150.00′	36.12′	70.88′	102+20.55	GARBRY	3+94.12	56.14′	LT	102+56.66	102+91.43	LOONEY	10+84.98	64.75′	LT
	C	31°33′29″	111.00′	31.37′	61.14′	103+39.84	LOONEY	11+26.23	39.42′	LT	103+71.21	104+00.98	LOONEY	11+94.32	23.00′	LT
NE	D	24°40′06″	300.00′	65.60′	129.16′	400+16.07	LOONEY	12+40.23	23.00′	RT	400+81.67	401+45.24	LOONEY	11+15.02	50.28′	RT
	E	40°21′58″	40.00′	14.70′	28.18′	401+82.61	LOONEY	10+81.06	65.98′	RT	401+97.31	402+10.79	LOONEY	10+61.49	85.44′	RT
	F	35°42′55″	110.00′	35.44′	65.57′	402+32.70	GARBRY	6+13.20	31.69′	LT	402+68.14	403+01.27	GARBRY	6+77.41	11.00′	LT
SW	G	11°39′17″	500.00′	51.03′	101.71′	200+37.12	GARBRY	2+17.12	10.00′	RT	200+88.14	201+38.82	GARBRY	3+18.12	0.31′	LT
	H	40°01′38″	100.00′	36.42′	69.86′	201+38.82	GARBRY	3+18.12	0.31′	LT	201+75.25	202+08.68	GARBRY	3+85.84	9.64′	RT
	I	46°45′10″	50.00′	21.61′	40.80′	202+26.70	GARBRY	4+01.69	18.20′	RT	202+48.31	202+67.50	GARBRY	4+26.26	49.36′	RT
	J	25°37′29″	300.00′	68.23′	134.17′	202+90.01	LOONEY	9+17.45	53.51′	LT	203+58.23	204+24.18	LOONEY	7+87.71	24.00′	LT
SE	K	6°02′25″	324.00′	17.09′	34.16′	300+19.33	LOONEY	8+07.04	24.00′	RT	300+36.43	300+53.49	LOONEY	8+41.14	22.20′	RT
	L	37°34′20″	110.00′	37.42′	72.13′	300+53.49	LOONEY	8+41.14	22.20′	RT	300+90.91	301+25.62	LOONEY	9+10.24	37.83′	RT
	M	45°54′03″	200.00′	84.69′	160.22′	301+48.33	LOONEY	9+29.59	49.71′	RT	302+33.02	303+08.55	GARBRY	6+77.33	13.10′	RT

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SEA
CHECKED AKB

ROUNDABOUT BASELINE SCHEMATIC PLAN

MIA-LOONEY/ GARBRY RNDBT

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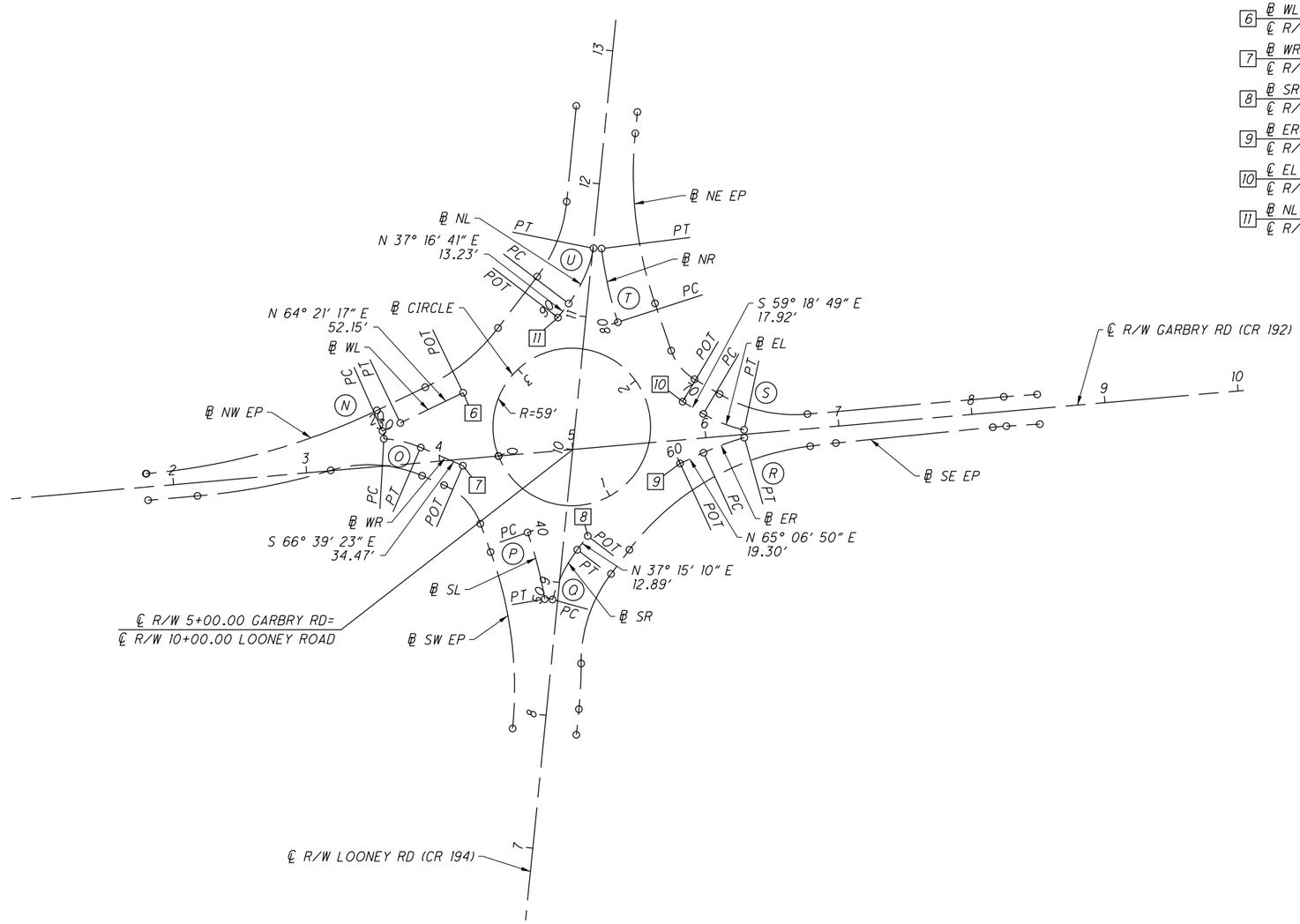

6 ℄ WL STA 20+66.84=
℄ R/W GARBRY RD 4+21.93, 49.51′ LT

7 ℄ WR STA 30+62.94=
℄ R/W GARBRY RD 4+17.06, 4.91′ RT

8 ℄ SR STA 50+54.70=
℄ R/W LOONEY RD 9+36.61, 17.64′ RT

9 ℄ ER STA 60+00.00=
℄ R/W GARBRY RD 5+79.20, 17.51′ RT

10 ℄ EL STA 70+00.00=
℄ R/W GARBRY RD 5+85.15, 28.46′ LT

11 ℄ NL STA 90+00.00=
℄ R/W LOONEY RD 10+97.22, 20.86′ LT

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SEA
CHECKED AKB

MEDIAN CURVE DATA (EDGE OF PAVEMENT)

LEG	CURVE	DELTA	R	T	L	BEGIN CURVE					PI STATION	END CURVE				
						℄ STATION	REF ℄	STA	OFFSET	SIDE		℄ STATION	REF ℄	STA	OFFSET	SIDE
W	N	1°40′45″	501.00′	7.34′	14.68	20+00.00	GARBRY	3+59.30	26.17′	LT	20+07.34	20+14.68	GARBRY	3+73.11	31.14′	LT
	O	20°08′19″	81.00′	14.338′	28.47′	30+00.00	GARBRY	3+59.84	20.37′	LT	30+14.38	30+28.47	GARBRY	3+86.73	11.47′	LT
S	P	09°48′13″	301.00′	25.81′	51.50′	40+00.00	LOONEY	9+34.75	27.43′	LT	40+25.81	40+51.50	LOONEY	8+86.48	9.67′	LT
	Q	21°34′49″	111.00′	21.15′	41.81′	50+00.00	LOONEY	8+86.75	3.82′	LT	50+21.15	50+41.81	LOONEY	9+25.62	10.90′	RT
E	R	09°17′57″	201.00′	16.35′	32.62	60+19.30	GARBRY	5+97.35	10.95′	RT	60+35.65	60+51.92	GARBRY	6+28.79	2.40′	RT
	S	18°42′41″	101.00′	16.64′	32.98′	70+17.92	GARBRY	5+99.70	18.00′	LT	70+34.56	70+50.90	GARBRY	6+29.12	3.42′	LT
N	T	10°46′08″	301.00′	56.57′	56.57′	80+00.00	LOONEY	10+98.23	24.09′	RT	80+28.37	80+56.57	LOONEY	11+51.89	6.43′	RT
	U	25°58′29″	101.00′	23.29′	8.00	90+00.00	LOONEY	11+08.48	13.94	LT	90+36.52	90+59.01	LOONEY	11+51.52	0.52′	RT

ROUNDABOUT BASELINE SCHEMATIC PLAN

MIA-LOONEY/ GARBRY RNDBT

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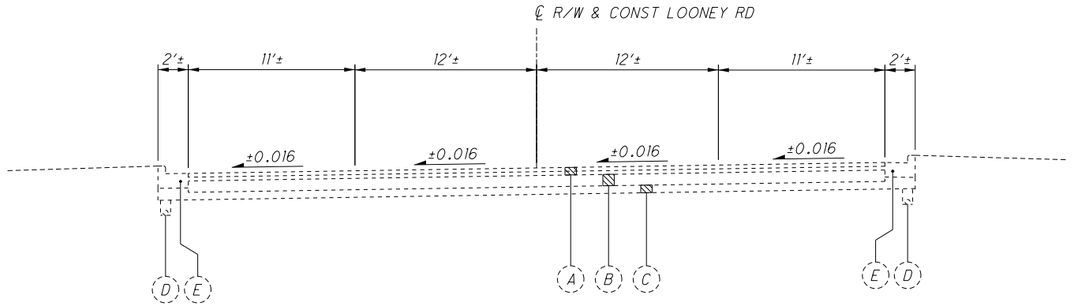
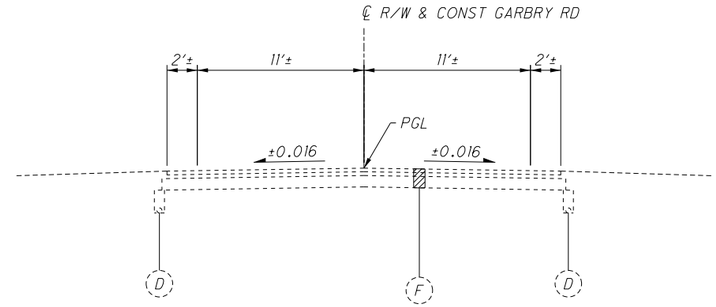
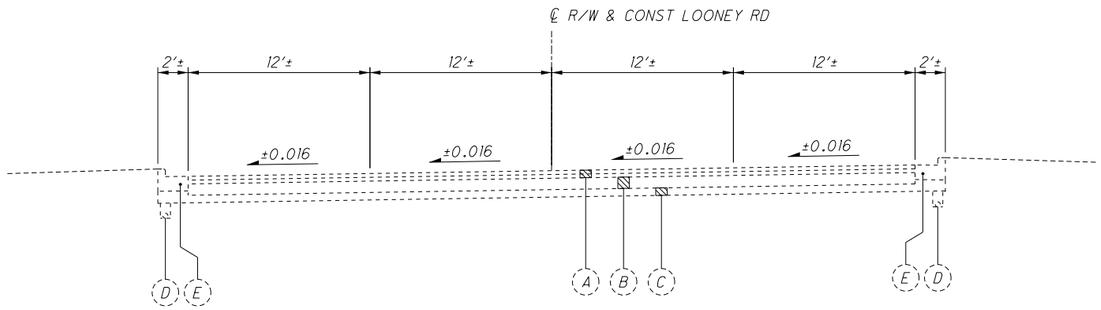


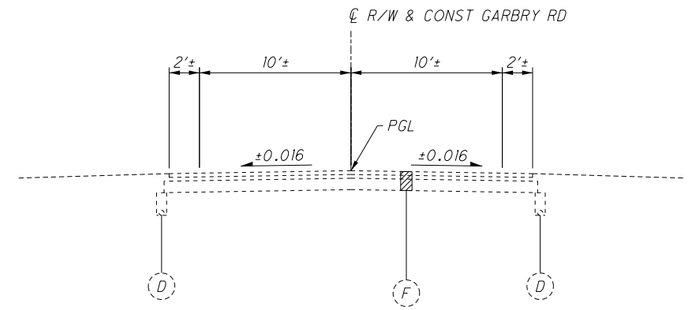
EXISTING LOONEY RD NORMAL SECTION
STA 10+00.00 TO STA 12+56.31



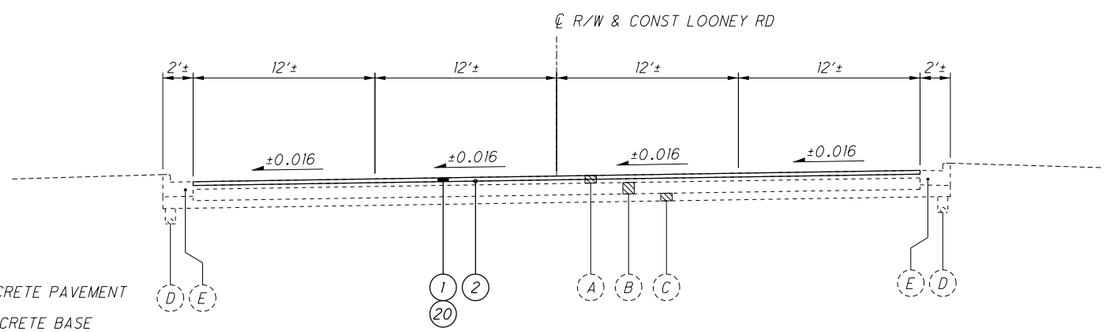
EXISTING GARBRY RD NORMAL SECTION
STA 5+00.00 TO STA 7+00.00



EXISTING LOONEY RD NORMAL SECTION
STA 7+87.71 TO STA 10+00.00



EXISTING GARBRY RD NORMAL SECTION
STA 1+51.26 TO STA 5+00.00



EXISTING LOONEY RD RESURFACE SECTION
STA 5+83.00 TO STA 7+87.71
STA 12+56.31 TO STA 14+06.27
FOR ADDITIONAL INFORMATION, SEE SHEET 2

EXISTING LEGEND

- (A) ±3" ASPHALT CONCRETE PAVEMENT
- (B) ±16" ASPHALT CONCRETE BASE
- (C) ±5" AGGREGATE BASE
- (D) EXISTING UNDERDRAIN
- (E) EXISTING CURB AND GUTTER
- (F) ASPHALT (USE 12" FOR ESTIMATING PURPOSES)

PROPOSED LEGEND

- (1) ITEM 441 - 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- (2) ITEM 407 - TACK COAT (@ 0.085 GAL/SY)
- (20) ITEM 254 - 1 ½" PAVEMENT PLANING, ASPHALT CONCRETE

TYPICAL SECTIONS

MIA-LOONEY/
GARBRY RNDBT

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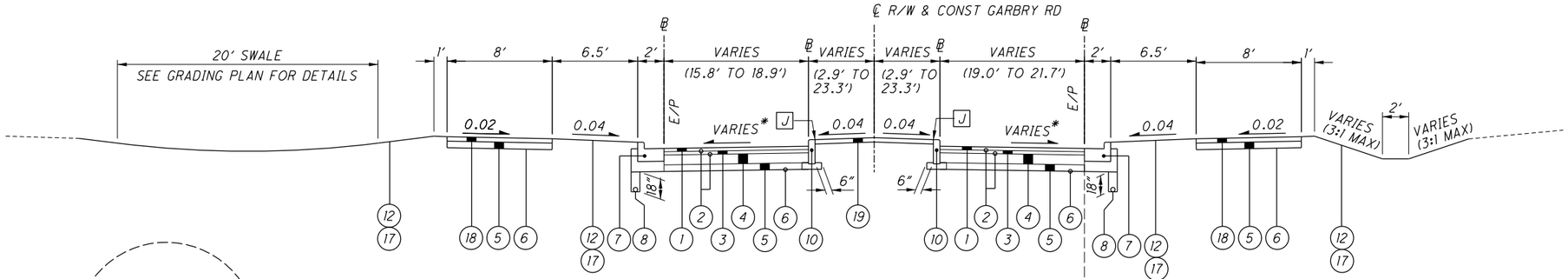
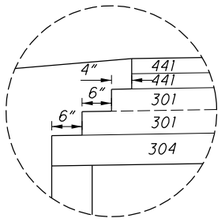
NOTE:
2' ROUNDING APPLIES AT ALL BREAKS IN GRADE UNLESS OTHERWISE NOTED.



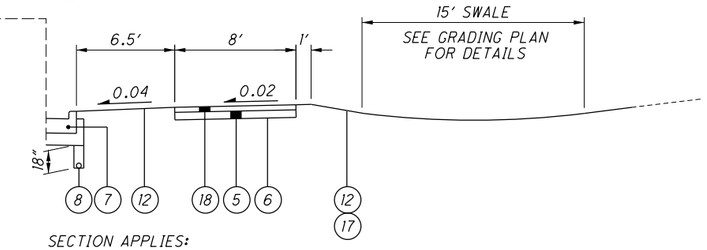
GARBRY RD NORMAL SECTION

STA 3+57.27 TO STA 4+25.92
STA 5+75.18 TO STA 6+31.24

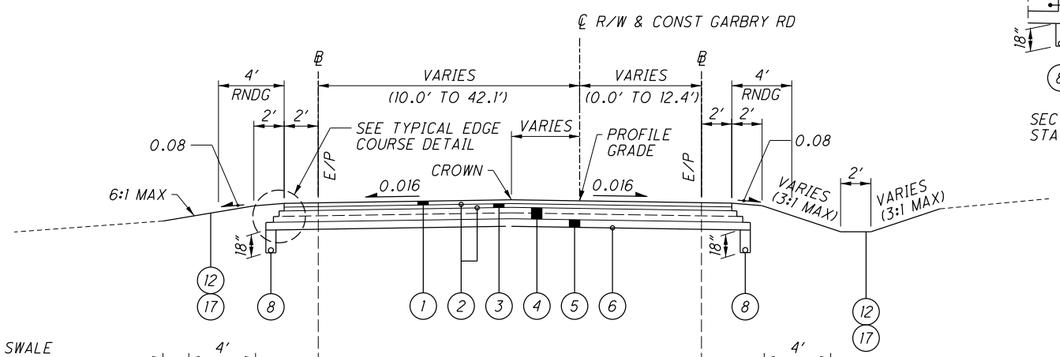
(FOR STA 4+25.92 TO 5+75.18 SEE SHEET 8)



TYPICAL EDGE COURSE DETAIL (NO CURB)

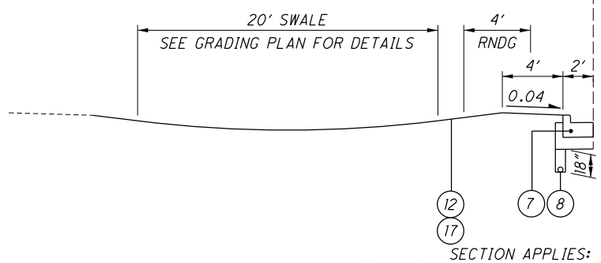


SECTION APPLIES:
STA 5+75.18 TO STA 6+31.24

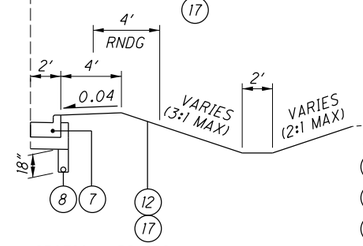


GARBRY RD NORMAL SECTION

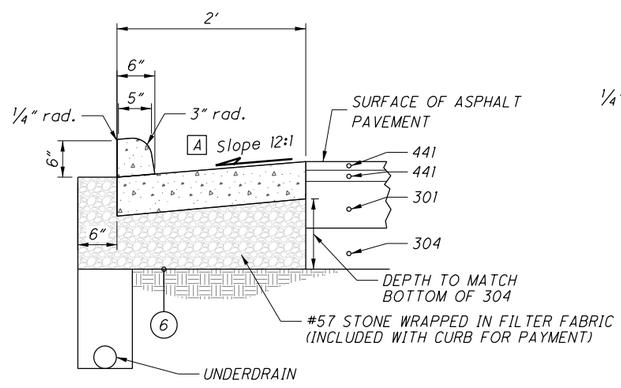
STA 1+80.00 TO STA 3+57.27
STA 6+31.24 TO STA 7+00.00



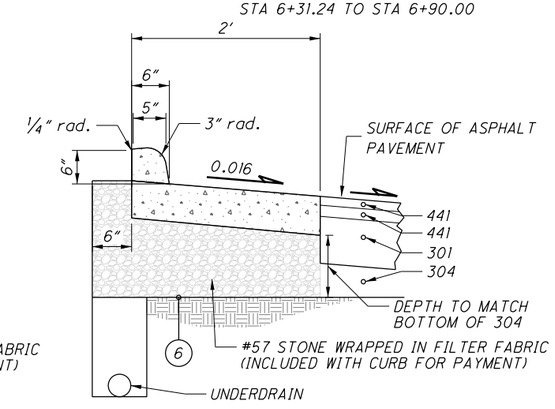
SECTION APPLIES:
STA 2+93.06 TO STA 3+57.27
STA 6+31.24 TO STA 6+90.00



SECTION APPLIES:
STA 3+00.00 TO STA 3+57.27
STA 6+31.24 TO STA 6+90.00



COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN (NORMAL)



COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN (INVERTED)

(APPLIES EAST SIDE OF LOONEY RD WHERE INDICATED IN PLAN)

A 5% MAXIMUM AT CURB RAMPS. TRANSISTION OVER 10' OR LENGTH NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

J 1" EXPANSION JOINT MATERIAL 705.03 (INCLUDE WITH CONCRETE ISLAND PAYMENT)

PROPOSED LEGEND

1. ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
2. ITEM 407 - TACK COAT (@ 0.055 GAL/SY)
3. ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22
4. ITEM 301 - 7" ASPHALT CONCRETE BASE, PG64-22 (MAX 4" LIFTS)
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 204 - SUBGRADE COMPACTION
7. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN (NORMAL)
8. ITEM 605 - 4" BASE PIPE UNDERDRAIN
9. ITEM 608 - CURB RAMP
10. ITEM 609 - CURB, TYPE 6
11. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN (INVERTED)
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: TRUCK APRON PAVEMENT (T=8")
14. ITEM 609 - MOUNTABLE CURB, AS PER PLAN
15. ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT
16. ITEM 304 - 8" AGGREGATE BASE
17. ITEM 659 - TOPSOIL (T=4")
18. ITEM 441 - 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
19. ITEM 609 - 4" CONCRETE TRAFFIC ISLAND

* SEE INTERSECTION DETAILS

TYPICAL SECTIONS

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GARBRY RNDBT

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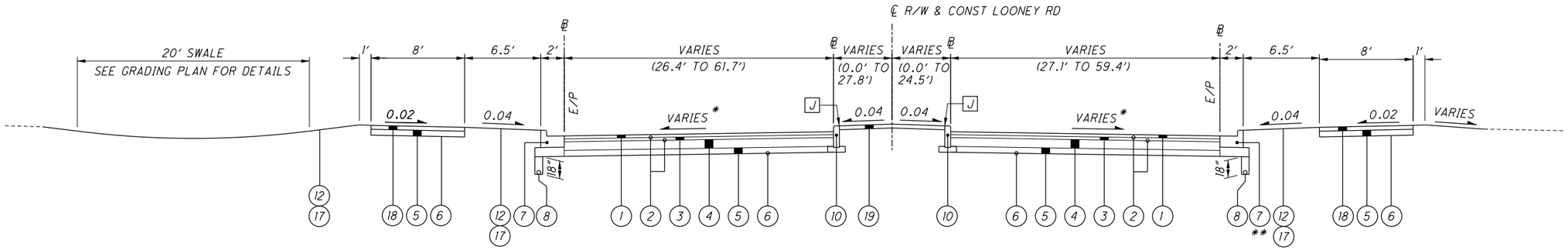
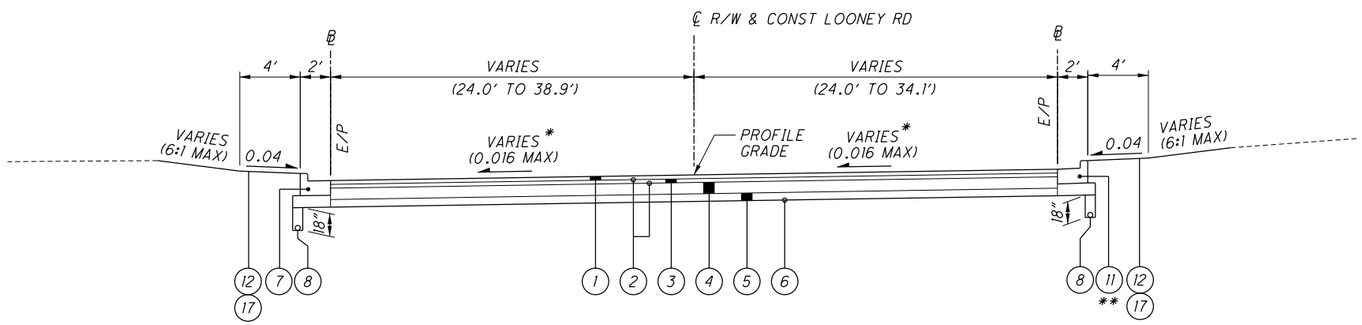


LOONEY RD NORMAL SECTION

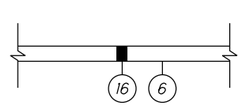
STA 8+84.27 TO STA 9+37.00
STA 10+96.59 TO STA 11+54.22

(FOR STA 9+37.00 TO 10+96.59 SEE SHEET 8)

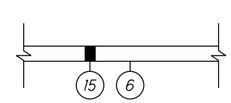


LOONEY RD NORMAL SECTION

STA 7+87.71 TO STA 8+84.27
STA 11+54.22 TO STA 12+56.31



RESIDENTIAL DRIVE (GRAVEL, TYPE 4)
TYPICAL BUILD-UP



COMMERCIAL DRIVE (CONCRETE, TYPE 1)
TYPICAL BUILD-UP

J 1" EXPANSION JOINT MATERIAL 705.03
(INCLUDE WITH CONCRETE ISLAND PAYMENT)

PROPOSED LEGEND

1. ITEM 441 - 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
2. ITEM 407 - TACK COAT (@ 0.055 GAL/SY)
3. ITEM 441 - 1 ¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22
4. ITEM 301 - 7" ASPHALT CONCRETE BASE, PG64-22 (MAX 4" LIFTS)
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 204 - SUBGRADE COMPACTION
7. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN (NORMAL)
8. ITEM 605 - 4" BASE PIPE UNDERDRAIN
9. ITEM 608 - CURB RAMP
10. ITEM 609 - CURB, TYPE 6
11. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN (INVERTED)
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: TRUCK APRON PAVEMENT (T=8")
14. ITEM 609 - MOUNTABLE CURB, AS PER PLAN
15. ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT
16. ITEM 304 - 8" AGGREGATE BASE
17. ITEM 659 - TOPSOIL (T=4")
18. ITEM 441 - 2 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
19. ITEM 609 - 4" CONCRETE TRAFFIC ISLAND

* SEE INTERSECTION DETAILS

** TRANSITION FROM NORMAL TO INVERTED CURB SHALL BE MADE OVER 10'

TYPICAL SECTIONS

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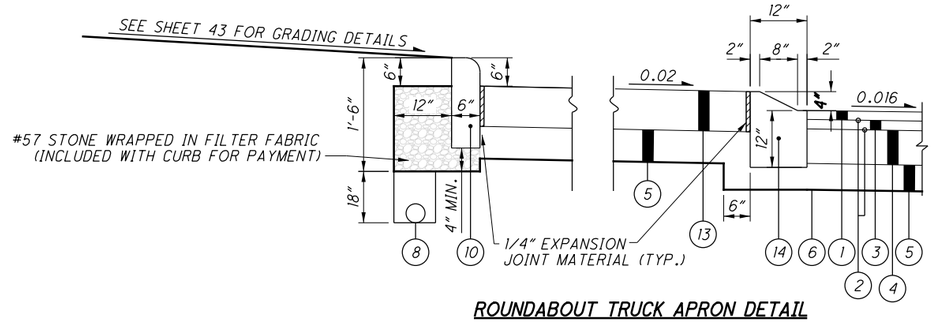
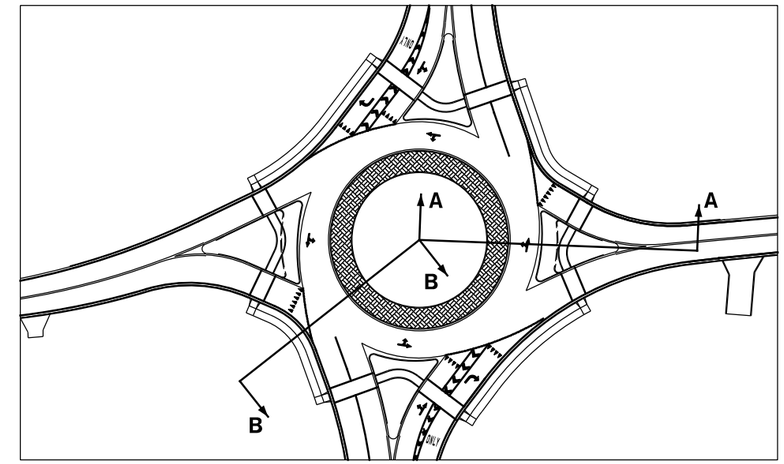
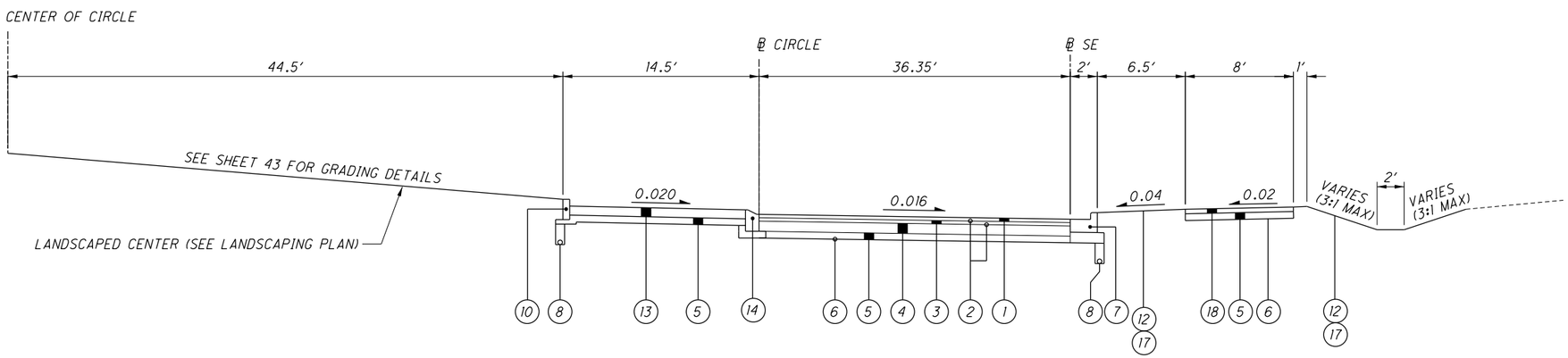
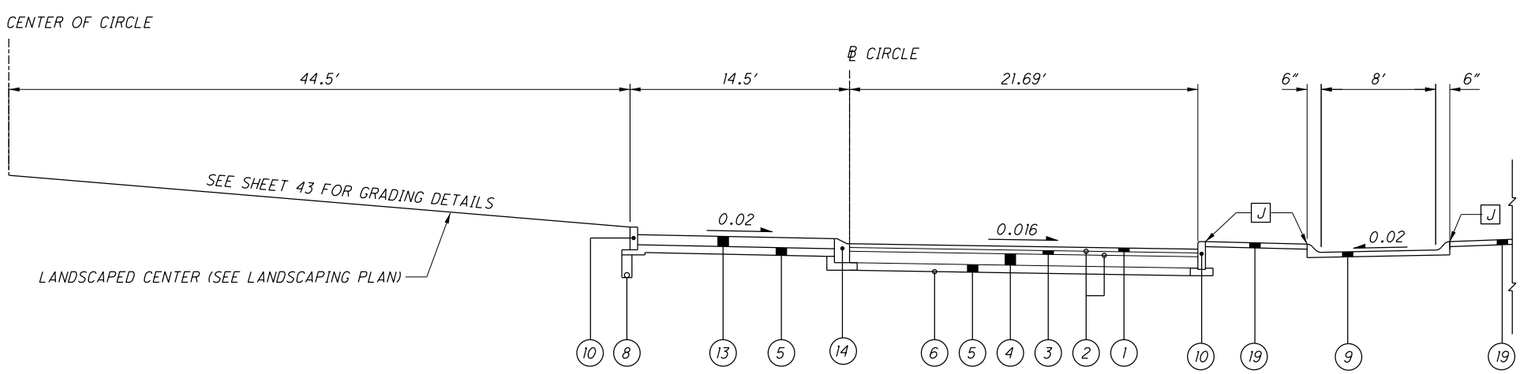


ROUNDABOUT TRUCK APRON DETAIL





SECTION B-B



SECTION A-A

J 1" EXPANSION JOINT MATERIAL 705.03
(INCLUDE WITH CONCRETE ISLAND PAYMENT)

PROPOSED LEGEND

1. ITEM 441 - 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
2. ITEM 407 - TACK COAT (@ 0.055 GAL/SY)
3. ITEM 441 - 1 ¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22
4. ITEM 301 - 7" ASPHALT CONCRETE BASE, PG64-22 (MAX 4" LIFTS)
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 204 - SUBGRADE COMPACTION
7. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN (NORMAL)
8. ITEM 605 - 4" BASE PIPE UNDERDRAIN
9. ITEM 608 - CURB RAMP
10. ITEM 609 - CURB, TYPE 6
11. ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN (INVERTED)
12. ITEM 659 - SEEDING AND MULCHING
13. ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: TRUCK APRON PAVEMENT (T=8")
14. ITEM 609 - MOUNTABLE CURB, AS PER PLAN
15. ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT
16. ITEM 304 - 8" AGGREGATE BASE
17. ITEM 659 - TOPSOIL (T=4")
18. ITEM 441 - 2 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
19. ITEM 609 - 4" CONCRETE TRAFFIC ISLAND

TYPICAL SECTIONS

MIA-LOONEY/
GARBRY RNDBT

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ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

COMMUNICATIONS:

AT&T
JESSE WEAD
3233 WOODMAN DRIVE
DAYTON, OH 45420
937-296-3894

CHARTER
JACOB HOUDESHELL
3691 TURNER ROAD
DAYTON OH, 45415
937-396-8372

ELECTRIC:

PIQUA POWER
NICK BERGER
201 HEMM AVENUE
PIQUA, OH 45356
937-778-2077

GAS:

VECTREN ENERGY DELIVERY
DON SPECHT
6500 CYLO ROAD
CENTERVILLE, OH 45459
937-312-2533

UNDERGROUND UTILITIES:

WATER/STORM/SANITARY
SHANE JOHNSON
123 BRIDGE STREET
PIQUA, OH 45356
937-778-2018
ATTN: SHANE JOHNSON

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

COORDINATION WITH UTILITIES

THE CONTRACTOR IS ADVISED THAT SOME UTILITY FACILITIES MAY NOT BE CLEAR OF THE CONSTRUCTION AREA DURING THE TIME OF CONSTRUCTION. PLEASE REFER TO THE "UTILITY NOTE" (INCLUDED WITH THE BID DOCUMENTS) FOR A LIST OF AREAS WITH POTENTIAL ENCOUNTERS WITH EXISITNG UTILITIES. EXISTING UTILITY FACILITIES MAY REMAIN IN PLACE OR BE RELOCATED WITHIN THE CONSTRUCTION LIMITS (BY THE OWNER). THE CONTRACTOR SHALL NOT WAIT ON THE RELOCATIONS TO BE COMPLETED, BUT INSTEAD SHALL COOPERATE WITH THE UTILITIES, INCLUDING THEIR CONTRACTORS, AND WORK AROUND THE EXISTING FACILITIES. SECTIONS 105. 07 AND 107.16 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS REQUIRE THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES. NO SEPARATE PAYMENT SHALL BE MADE FOR THE CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES.

ABANDONED UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ANY ABANDONED UTILITY FACILITY THAT MAY CONFLICT WITH ANY PROPOSED FACILITY OR CONSTRUCTION ACTIVITY PROPOSED IN THESE PLANS, INCLUDING THE INSTALLATION OF PROPOSED CONDUIT, UNDERDRAIN, STORM SEWER, STRUCTURES, WATERLINE, SANITARY SEWER LINE, SUBGRADE STABILIZATION, FOUNDATIONS, ETC. THE CONTRACTOR IS ADVISED TO VERIFY THAT A UTILITY FACILITY HAS BEEN ABANDONED BEFORE PROCEEDING WITH REMOVING IT. IF IT IS DETERMINED THAT THE UTILITY FACILITY IS ACTIVE AND IN CONFLICT, THEN THE CONTRACTOR SHALL NOTIFY THE MUNICIPAL ENGINEER AND ODOT ENGINEER PRIOR TO PROCEEDING WITH ANY AFFECTED PROPOSED WORK.IF THE PLAN DOES NOT SPECIFICALLY PAY FOR THE REMOVAL OF AN ABANDONED UTILITY LINE, PAYMENT FOR THE REMOVAL AND COORDINATION WITH THE OWNER, AS DESCRIBED HERIN, SHALL BE INCLUDED IN THE PRICE OF THE AFFECTED WORK.

EXPOSING EXISTING UTILITIES BEFORE DIGGING

THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE PROXIMITY OF EXISTING AND/OR RELOCATED UTILITY FACILITIES. ALL UTILITIES WITHIN 5 FEET OF THE SUBSURFACE WORK SHALL BE EXPOSED PRIOR TO DIGGING. CONTRACTOR MUST NOTIFY UTILITY OWNERS (CONTACT INFORMATION ON THIS SHEET) 7 DAYS PRIOR TO DIGGING OVER OR AROUND UNDERGROUND FACILITIES TO GIVE THE OWNER THE OPPORTUNITY TO BE ON-SITE DURING EXPOSING/ CONSTRUCTION.

IF, WHILE EXPOSING, CONFLICTS ARE FOUND TO BE PRESENT BETWEEN PROPOSED WORK AND EXISITNG UTILITIES THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE CITY AND THE UTILITY OWNER.

COSTS TO EXPOSE EXISTING UTILITIES SHALL BE INCLUDED IN THE ITEMS OF WORK AFFECTED. THE CONTRACTOR IS REMINDED TO KEEP THEIR OUPS TICKET UPDATED ACCORDING TO INDUSTRY PRACTICES.

EXISTING PLANS

EXISTING PLANS ENTITLED "LOONEY ROAD SOUTH AND RAILWAY PLACE" (PROJECT #96-4) MAY BE INSPECTED IN THE CITY OF PIQUA'S ENGINEERING DEPARTMENT AT 130 NORTH WAYNE STREET, PIQUA, OH.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWEROPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7PM AND 8AM, MONDAY THRU SATURDAY AND NO TIME ON SUNDAY UNLESS SPECIAL PERMISSION IS GRANTED. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 64 .

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
12"	2		2
15"	1		1
24"	1		1

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: RAPID STATIC GPS, CONVENTIONAL TRAVERSE, DIFFERENTIAL LEVELING

MONUMENT TYPE: 13/16" INSIDE DIAMETER IRON PIPE WITH EMHT TRAVERSE CAP

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE
COMBINED SCALE FACTOR: 1.00000973364524 (GRID TO GROUND)
ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 823.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	536 CU. YD.
659, SEEDING AND MULCHING	4,831 SQ. YD
659, REPAIR SEEDING AND MULCHING	242 SQ. YD
659, INTER-SEEDING	242 SQ. YD.
659, COMMERCIAL FERTILIZER	1.09 TON
659, LIME	1.00 ACRES
659, WATER	27 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY, REPRESENTATIVES OF THE CITY, ODOT, THE CONTRACTOR AND OTHER PERTINENT LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE CITY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

DRINKING WATER PROTECTION

THE PROJECT IS WITHIN THE BOUNDARIES OF A DESIGNATED SOLE SOURCE AQUIFER. BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS. IDLE EQUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES OR STREAMS. REFUELING SHALL NOT BE UNDERTAKEN NEAR DRAINAGE WAYS, DITCHES OR STREAMS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT, THE CITY OF PIQUA FIRE DEPARTMENT (937-778-2013), LOCAL EMERGENCY COORDINATOR (937-339-6400) AND THE OEPA (1-800-282-9378) MUST BE CONTACTED WITHIN 30 MINUTES OF KNOWLEDGE OF THE RELEASE.

DRAINAGE STURCUTRES RECONSTRUCTED OR ADJUSTED TO GRADE

CONTRACTOR IS RESPONSIBLE TO VERIFY ALL PROPOSED TOP OF CASTING ELEVATIONS FOR DRAINAGE STRUCTURES, THAT ARE TO BE RECONSTRUCTED OR ADJUSTED TO GRADE, MATCH PROPOSED CONSTRUCTED ROADWAY/ GROUND SURFACE AND SHALL ADJUST AS NEEDED TO MAKE THEM MATCH AT NO ADDITIONAL COST.

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CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS. THE ENGINEER WILL HAVE 48 HOURS, FROM THE TIME OF NOTIFICATION, TO RESPOND AND PROVIDE DIRECTION TO THE CONTRACTOR.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. AGAIN, THE ENGINEER WILL HAVE 48 HOURS, FROM THE TIME OF NOTIFICATION, TO RESPOND AND PROVIDE DIRECTION TO THE CONTRACTOR.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

UNRECORDED UNTREATED NON-STORMWATER DRAINAGE

FURNISH NO CONTINUANCE FOR ANY UNRECORDED UNTREATED NON-STORMWATER DRAINAGE SUCH AS UNTREATED SEPTIC, UNTREATED WASTEWATER, UNTREATED CURTAIN/GRADIENT DRAINS, AND UNTREATED FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. PLUG ANY UNRECORDED UNTREATED NON-STORMWATER DRAINAGE WITH CLASS C CONCRETE AT THE RIGHT OF WAY LINE. PAYMENT FOR PLUGGING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 OR 203 ITEM.

UNRECORDED STORM WATER DRAINAGE

FURNISH A CONTINUANCE FOR ALL UNRECORDED STORM WATER DRAINAGE, SUCH AS ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 12" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION 100 FT.

611, 12" CONDUIT, TYPE C, FOR DRAINAGE CONNECTION 50 FT.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

601, TIED CONCRETE BLOCK MAT, TYPE 1	20 SQ. YD.
605, 4" UNCLASSIFIED PIPE UNDERDRAINS	50 FT.
611, 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	50 FT.
611, PRECAST REINFORCED CONCRETE OUTLET	1 EACH

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE CITY GARAGE.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS

FURNISH A CONTINUANCE FOR ALL UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS SUCH AS SANITARY, WASTEWATER, CURTAIN/GRADIENT DRAINS, AND FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. FURNISH AN UNOBSTRUCTED CONTINUANCE OF THE UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS TO THE SATISFACTION OF THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT. ALL SANITARY AND SANITARY WASTEWATER CONTINUANCE MAY ALSO REQUIRE A NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REPORT ALL CONTINUANCE TO THE LOCAL HEALTH DEPARTMENT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.42, 707.43, 707.44, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35, 706.01, 706.02, OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 8" CONDUIT, TYPE B, FOR SANITARY	50 FT.
611, 8" CONDUIT, TYPE C, FOR SANITARY	50 FT.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN

AN EXISTING SANITARY MANHOLE LOCATED ON GARBRY RD (STA 3+65, CENTER) IS TO BE RECONSTRUCTED TO GRADE PER ITEM 611. CONTRACTOR SHALL ENSURE THAT THE FINAL LOCATION OF THE MANHOLE LID LOCATION AND ORIENTATION DOES NOT INTERFERE WITH THE PROPOSED CURB AND GUTTER.

MANUFACTURED WATER QUALITY STRUCTURE

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY STRUCTURES FOR WATER QUALITY TREATMENT. AREAS HAVE BEEN SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE SYSTEM. PAYMENT FOR THESE DEVICES SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 2.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

2. COMPACT THE SUBGRADE ACCORDING TO 204.03.

3. PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06. PRE-CONSTRUCTION GEOTECHNICAL INVESTIGATIONS HAVE IDENTIFIED THE POTENTIAL FOR UNSTABLE SUBGRADE SOILS WITHIN THE PROPOSED ROAD BED. THE PROJECT ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

4. ANY SOFT OR YIELDING AREAS ENCOUNTERED DURING PROOFROLLING OPERATIONS SHOULD BE EXCAVATED TO EXPOSE FIRM STABLE SOILS. EXCAVATIONS SHALL EXTEND 18 INCHES BEYOND THE EDGE OF SURFACE OF PAVEMENT OR PAVED SHOULDERS.

   REPLACEMENT MATERIAL SHOULD BE ODOT CMS 703.16C GRANULAR MATERIAL, TYPE B. UNDERCUT EXCAVATIONS SHOULD BE DRAINED TO A SUITABLE OUTLET, SUCH AS AN UNDERDRAIN OR CATCH BASIN. ACCORDING TO ODOT'S GB1, ODOT CMS 712.09, GEOTEXTILE FABRIC SHOULD BE USED IN THE BOTTOM OF THE UNDERCUT.

   UNDERCUTS IN AREAS OF SOFT SOILS COULD BE LIMITED TO A MAXIMUM DEPTH OF 3 FEET BELOW DESIGN SUBGRADE ELEVATION BY BRIDGING OVER DEEPER SOFT SOILS USING TENSAR BX-1300 GEOGRID (OR EQUIVALENT) AND NO. 2 STONE. IN MOST CASES, TENSAR BX-1300 GEOGRID AND ±1 FOOT OF NO. 2 STONE, CHOKED OFF WITH ODOT 304 CRUSHED LIMESTONE AT TOP OF NO. 2'S CAN BE USED TO CREATE A BRIDGING LIFT. FOLLOWING DENSIFICATION OF THE BRIDGING LIFT WITH SUITABLE VIBRATORY COMPACTION EQUIPMENT, THE DESIGN SUBGRADE ELEVATION SHOULD BE REESTABLISHED USING ODOT CMS 703.16.C GRANULAR MATERIAL, TYPE B.

5. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.

6. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR PAYMENT OF WORK AS DESCRIBED ABOVE. THIS SHALL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED FOR EACH ITEM. THESE QUANTITIES SHALL ONLY BE USED AS DIRECTED BY THE ENGINEER.

ITEM 204 - EXCAVATION OF SUBGRADE	284 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B	284 CY
ITEM 204 - GEOTEXTILE FABRIC	568 SY
ITEM 861 - GEOGRID FOR SUBGRADE STABILIZATION	285 SY

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 3 HOUR.

ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN

THIS ITEM SHALL CONSIST OF CONSTRUCTING A COMBINATION CURB AND GUTTER AS DETAILED IN THE TYPICAL SECTIONS AND BY THE CITY OF PIQUA STANDARD CONSTRUCTION DRAWING (SCD) 300-4 FOR TYPE 2 CURB AND GUTTER. ALL REQUIREMENTS OF ITEM 609 OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION MATERIAL SPECIFICATIONS (CMS) SHALL APPLY. THE CONTRACTOR SHALL COMPACT THE SUBGRADE UNDER THE CURB AND GUTTER AS REQUIRED PER ODOT ITEM 204 SUBGRADE COMPACTION. IN CASES WHERE THE ODOT CMS AND THE TYPICAL SECTIONS OF THIS PLAN OR THE CITY OF PIQUA SCD 300-4 DIFFER, THIS PLAN /THE PIQUA SCD SHALL RULE.

THE TYPICAL SECTIONS PROVIDE DETAILS FOR BOTH "NORMAL" AND "INVERTED" VERSIONS OF THIS ITEM. BOTH SHALL BE INCLUDED FOR PAYMENT UNDER THE SAME ITEM.

PAYMENT FOR THIS ITEM SHALL BE MADE UNDER ITEM 609, COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN.

ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: TRUCK APRON PAVEMENT (T=8")

THIS ITEM SHALL INCLUDE ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS NECESSARY TO CONSTRUCTED STAMPED COLORED CONCRETE TRUCK APRONS TO THE SATISFACTION OF THE ENGINEER.

TRUCK APRON PAVEMENT SHALL COMPLY WITH ODOT ITEM 452 EXCEPT THAT THE CONCRETE SHALL BE STAMPED AND COLORED AS DESCRIBED BELOW.

THE CONCRETE SHALL BE STAMPED WITH; SCOFIELD SYSTEMS "TRADITIONAL BRICKS NEW BRICK-BASKETWEAVE" PATTERN UTILIZING SCOFIELD INTEGRAL COLOR SG IN A COLOR OF SG160-4 RED BRICK AND LITHOCHROME ANTIQUING RELEASE 1503 DEEP CHARCOAL, OR BRICKFORM "BASKET WEAVE NEW BRICK" PATTERN UTILIZING LIQUID INTEGRAL COLOR IN A COLOR OF LC-2240 BRICK RED AND ANTIQUING RELEASE 100 DARK GRAY, OR AN APPROVED EQUAL PATTERN AND COLOR SYSTEM. THE STAMPED CONCRETE SHALL CONFORM TO ODOT CMS, PLAN DETAILS, AND ALL APPLICABLE MANUFACTURER'S REQUIREMENTS. CURE CONCRETE ACCORDING TO ODOT ITEM 451 AND APPLY COLORWAX SEALANT PER MANUFACTURER'S RECOMMENDATIONS. JOINTS SHALL BE PER THE DETAIL PROVIDED IN THE TYPICAL SECTIONS ON SHEET 6. A 5'X5' (SURFACE AREA) MOCK-UP OF THE PATTERN AND COLOR SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER, INCLUDING ALL TOOLING, JOINTING, COLORING, STAMPING, AND CURING, PRIOR TO CONSTRUCTION.

ALL MATERIALS, LABOR, EQUIPMENT, AND OTHER EXPENSES ASSOCIATED WITH STAMPING AND COLORING THE CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: TRUCK APRON PAVEMENT (T=8").

ITEM 609 - CURB MISC.: MOUNTABLE CURB, AS PER PLAN

THIS ITEM SHALL CONFORM TO ITEM 609 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

IN ADDITION, THE CONSTRUCTION OF THIS ITEM SHALL BE PER THE "ROUNDABOUT TRUCK APRON DETAIL" PROVIDED ON SHEET 8 .

CALCULATED RSH
CHECKED AKB

GENERAL NOTES

MIA-LOONEY/
GARBRY RNDBT

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ITEM 614 MAINTAINING TRAFFIC

GENERAL

IT IS THE INTENTION TO PERFORM THE REQUIRED WORK WITHIN THESE PLANS WITH THE LEAST INCONVENIENCE TO AND THE MAXIMUM SAFETY OF THE CONTRACTOR AND THE TRAVELING PUBLIC. THE REQUIREMENTS FOR MAINTAINING TRAFFIC AS SPECIFIED IN THE "OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS" (CURRENT EDITION, LATEST REVISION), PERTINENT PROVISIONS OF THE "OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATOINS) AND APPLICABLE STANDARD CONSTRUCTION DRAWINGS SHALL APPLY TO THIS PROJECT IN ADDITION TO THE FOLLOWING NOTES AND DETAILS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. THIS INCLUDES PROVIDING, PLACING, MAINTAINING, AND SUBSEQUENTLY REMOVING ALL NECESSARY TRAFFIC CONTROL MEASURES FOR ALL PROPOSED CONSTRUCTION OPERATIONS.

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAME(S) AND TELEPHONE NUMBER(S) OF PERSON(S)WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION, THE HIGHWAY PATROL, AND ALL OTHER INTERESTED POLICE AGENCIES.

THIS PERSON(S) SHALL BE RESPONSIBLE FOR REPAIRING AND OR REPLACING ALL TRAFFIC CONTROL DEVICES NEEDED TO MAINTAIN SAFETY FOR THE DURATION OF THIS PROJECT. THIS PERSON(S) SHALL HAVE AVAILABLE ALL MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED REPAIRS WITHIN A REASONABLE PERIOD OF TIME.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.

ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ACCESS FOR MAIL DELIVERY, EMERGENCY AND SERVICE VEHICLES SHALL NOT BE DISRUPTED. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE ENGINEER AND THE OWNERS OF THE ABUTTING PROPERTIES IN ADVANCE (10 DAYS) OF ANY OPERATIONS WHICH AFFECT ACCESS.

THE SAFETY OF PEDESTRIAN TRAFFIC SHALL BE CONSIDERED AT ALL TIMES IN THE PROVISION OF TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS AND NOTES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LIGHTS, SIGNS, BARRICADES, AND OTHER WARNINGS TO PHYSICALLY SEPARATE THE PEDESTRIAN FROM HAZARDS INCIDENTAL TO THE CONSTRUCTION OPERATIONS SUCH AS ANCHOR BOLTS, OPEN EXCAVATIONS, ETC.

THE CONTRACTOR SHALL FURNISH AND INSTALL ADVANCE WARNING "ROAD WORK AHEAD" (W20-1) SIGNS AND "END ROAD WORK" (G20-2) SIGNS ON LOONEY RD. THE SIGNS SHALL BE DUAL INSTALLATIONS AND THE ACTUAL LOCATION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

VEHICLES AND OTHER EQUIPMENT SHALL NOT BE PERMITTED TO STOP OR TO BE PARKED ALONG THE ROADWAY EXCEPT WITHIN DESIGNATED WORK AREAS AND SHALL NOT ENTER OR LEAVE WORK AREAS IN A MANNER WHICH WILL BE HAZARDOUS TO, OR INTERFERE WITH THE NORMAL FLOW OF TRAFFIC. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT WITHIN SPECIFIC AREAS DESIGNATED BY THE ENGINEER.

TRAFFIC SHALL BE MAINTAINED IN A UNIFORM PATTERN THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT AND SHALL NOT BE SUBJECTED TO CONSTANT LANE SHIFTS.

THE USE OF EXISTING SHOULDER AREAS TO MAINTAIN TRAFFIC IS PERMITTED, UNLESS OTHERWISE NOTED IN THESE PLANS. SHOULD ANY EXISTING OR NEW SHOULDER AREA USED TO MAINTAIN TRAFFIC BECOME DAMAGED OR DESTROYED DUE TO THE NEGLIGENCE OR FAILURE TO PROVIDE ADEQUATE SIGNS OR OTHER APPROPRIATE TRAFFIC CONTROL DEVICES, THE RESTORATION OR REPLACEMENT OF THE SHOULDER AREA WILL BE AT THE CONTRACTOR'S EXPENSE.

NOTICE OF CLOSURE SIGN

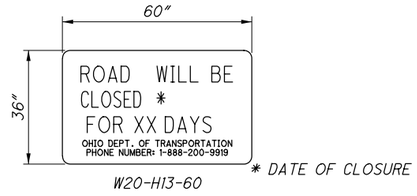
NOTICE OF CLOSURE SIGNS (W20-H13), SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. <<AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.>>

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURE	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & <2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.



ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 50 M. GAL.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF 5" OR LESS BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPTFOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

MIA-LOONEY/
GARBRY RNDBT

LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS5#32 DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 40 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE DISTRICT 7 PUBLIC INFORMATION OFFICE. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE TO DISTRICT 7 PUBLIC INFORMATION OFFICE TIME TABLE

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 7 PUBLIC INFORMATION OFFICE
RAMP & ROAD CLOSURE	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & <2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURE & RESTRICTIONS	>=2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	NA	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTICE TO DISTRICT 7 PUBLIC INFORMATION OFFICE TIME TABLE.

SHEET NO.	PHASE	614 MAINTAINING TRAFFIC	614 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	614 DETOUR SIGNING	614 WORK ZONE, LANE LINE, CLASS I, 642 PAINT	614 WORK ZONE, CENTER LINE, CLASS I, 642 PAINT	614 WORK ZONE, EDGE LINE, CLASS I, 642 PAINT	614 WORK ZONE, STOP LINE, CLASS I, 642 PAINT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	616 WATER
			HOUR		FT	FT	FT	FT	SY	MGAL
11		LUMP								50
12			40							
13	PHASE 1					838	823	37	50	
14	PHASE 1			LUMP						
15	PHASE 2				82	367	150			
16	PHASE 1 & 2			LUMP						
17	PHASE 3				300	150				
	SUB-TOTALS				382 FT	1355 FT	973 FT			
TOTALS CARRIED TO GENERAL SUMMARY		LUMP	40	LUMP	0.07 MILE	0.26 MILE	0.18 MILE	37	50	50

CALCULATED SMM
CHECKED JDS

MAINTENANCE OF TRAFFIC GENERAL NOTES

MIA-LOONEY/
GARBRY RNDBT

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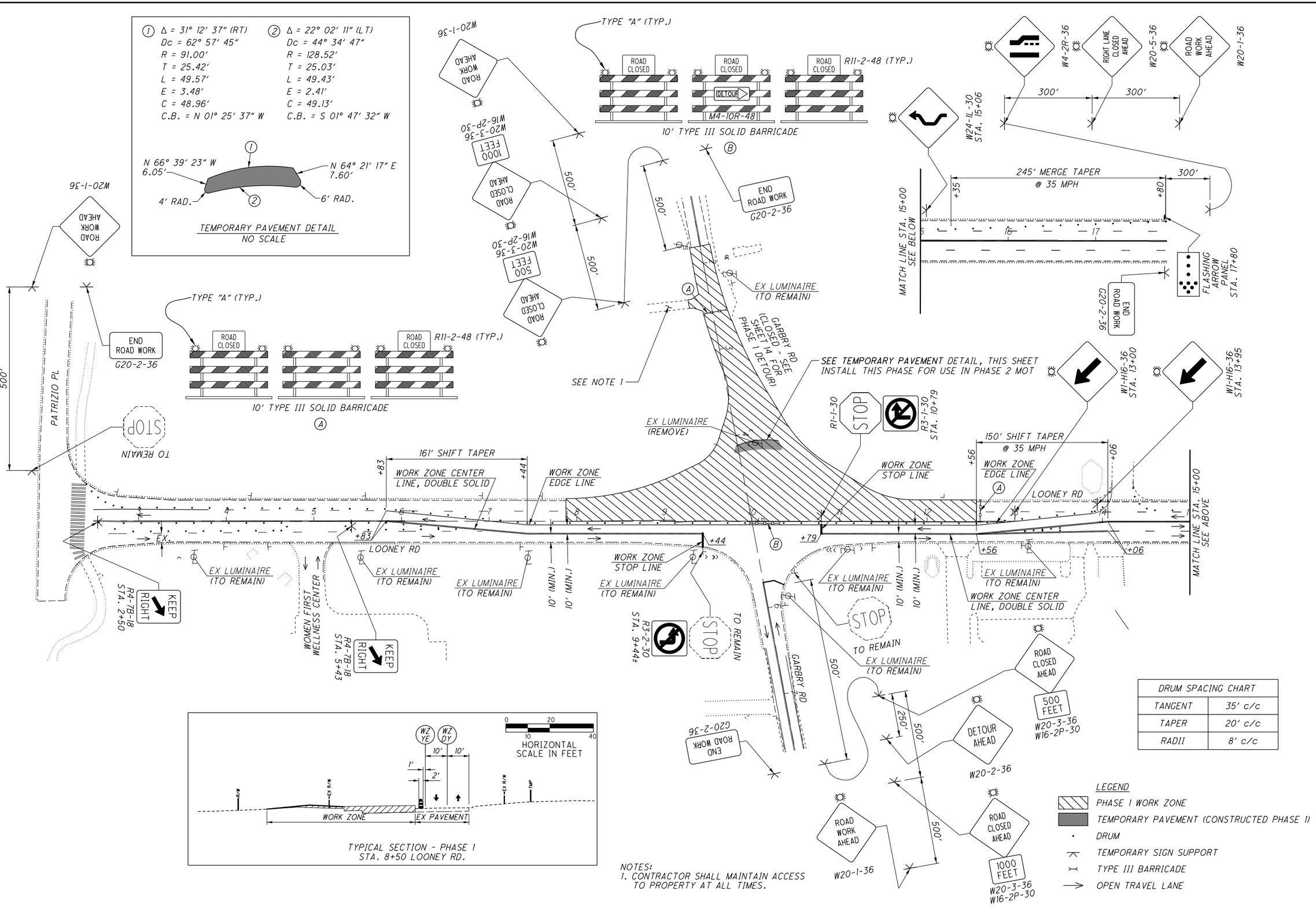

DRUM SPACING CHART	
TANGENT	35′ c/c
TAPER	20′ c/c
RADII	8′ c/c

NOTES:
1. CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTY AT ALL TIMES.

CALCULATED SMM
CHECKED JDS

MAINTENANCE OF TRAFFIC PLAN PHASE 1

MIA-LOONEY/ GARBRY RNDBT

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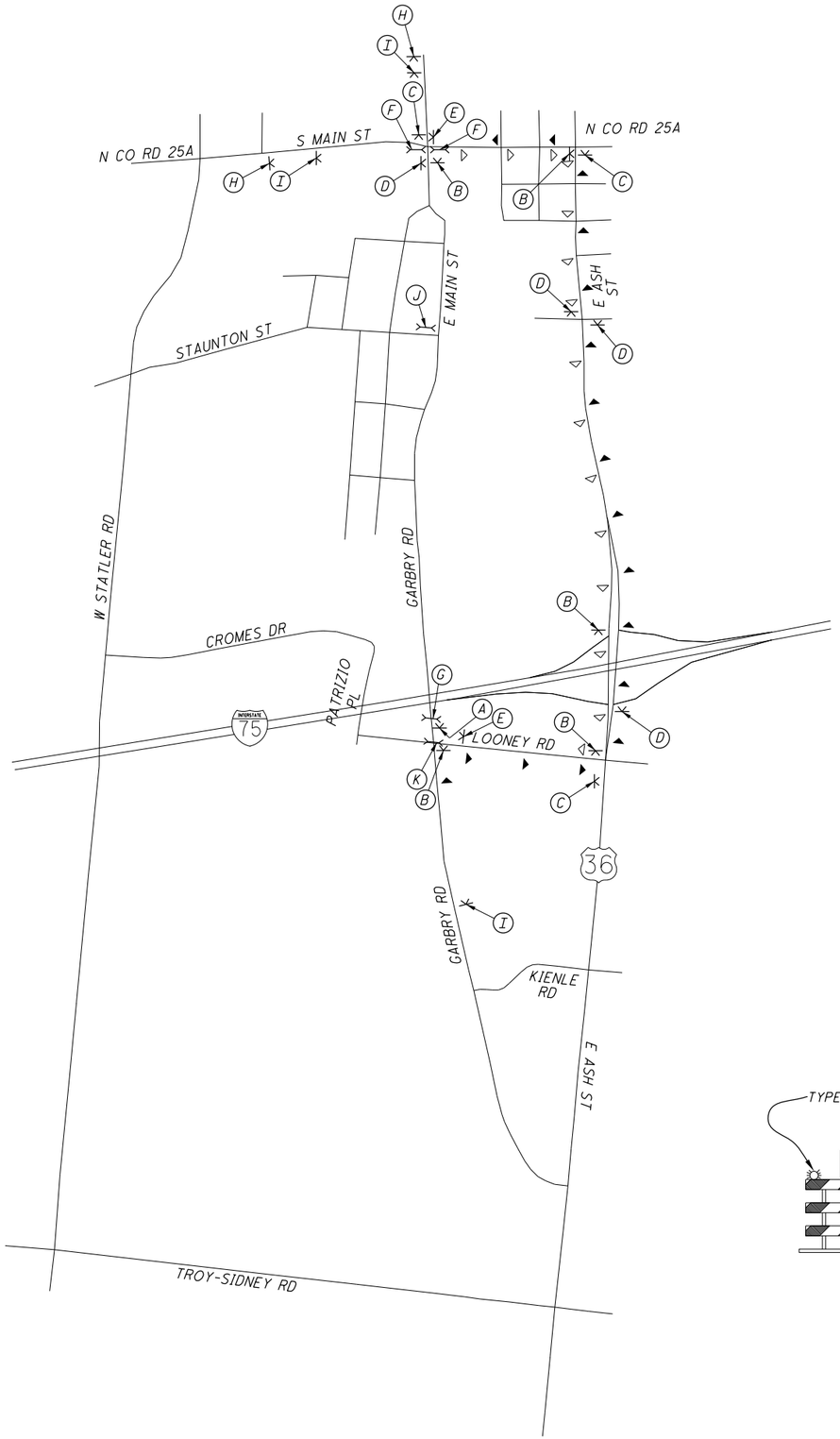

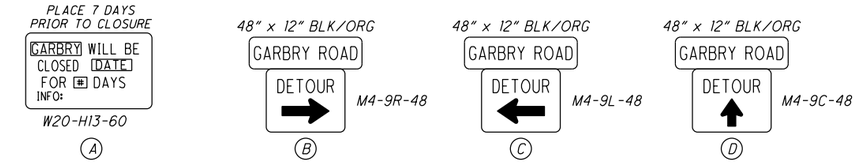

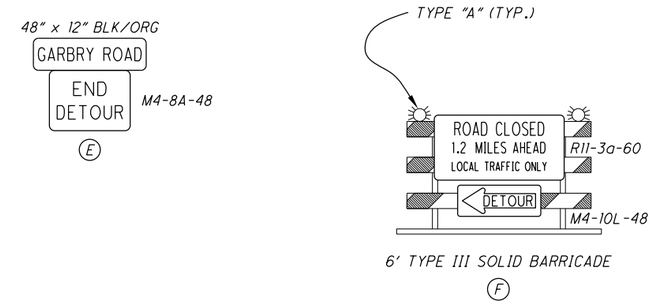

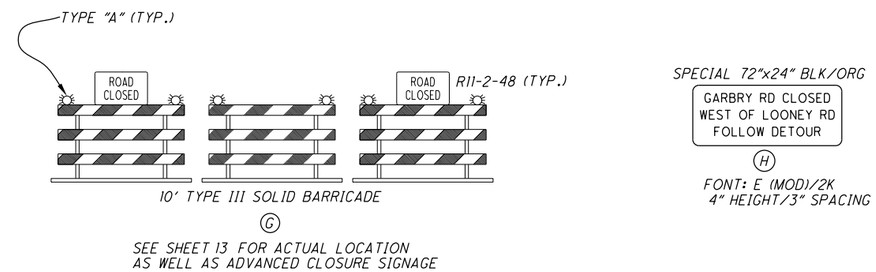

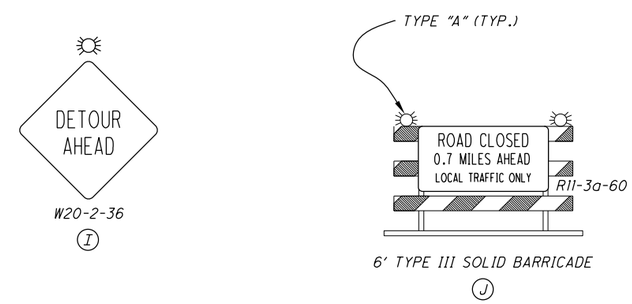

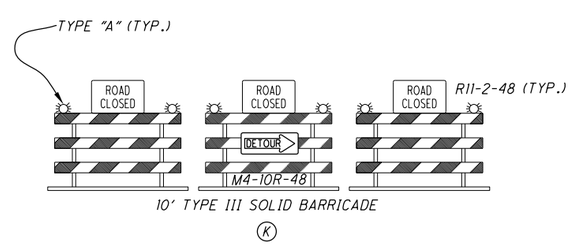

GARBRY ROAD CLOSURE - DETOUR PLAN

▷ = EB DETOUR

◀ = WB DETOUR

= TEMPORARY SIGN SUPPORT

= TYPE III BARRICADE

NO SCALE

CALCULATED SMM
CHECKED JDS

MAINTENANCE OF TRAFFIC - DETOUR PLAN
PHASE 1

MIA-LOONEY/
GARBRY RNDBT

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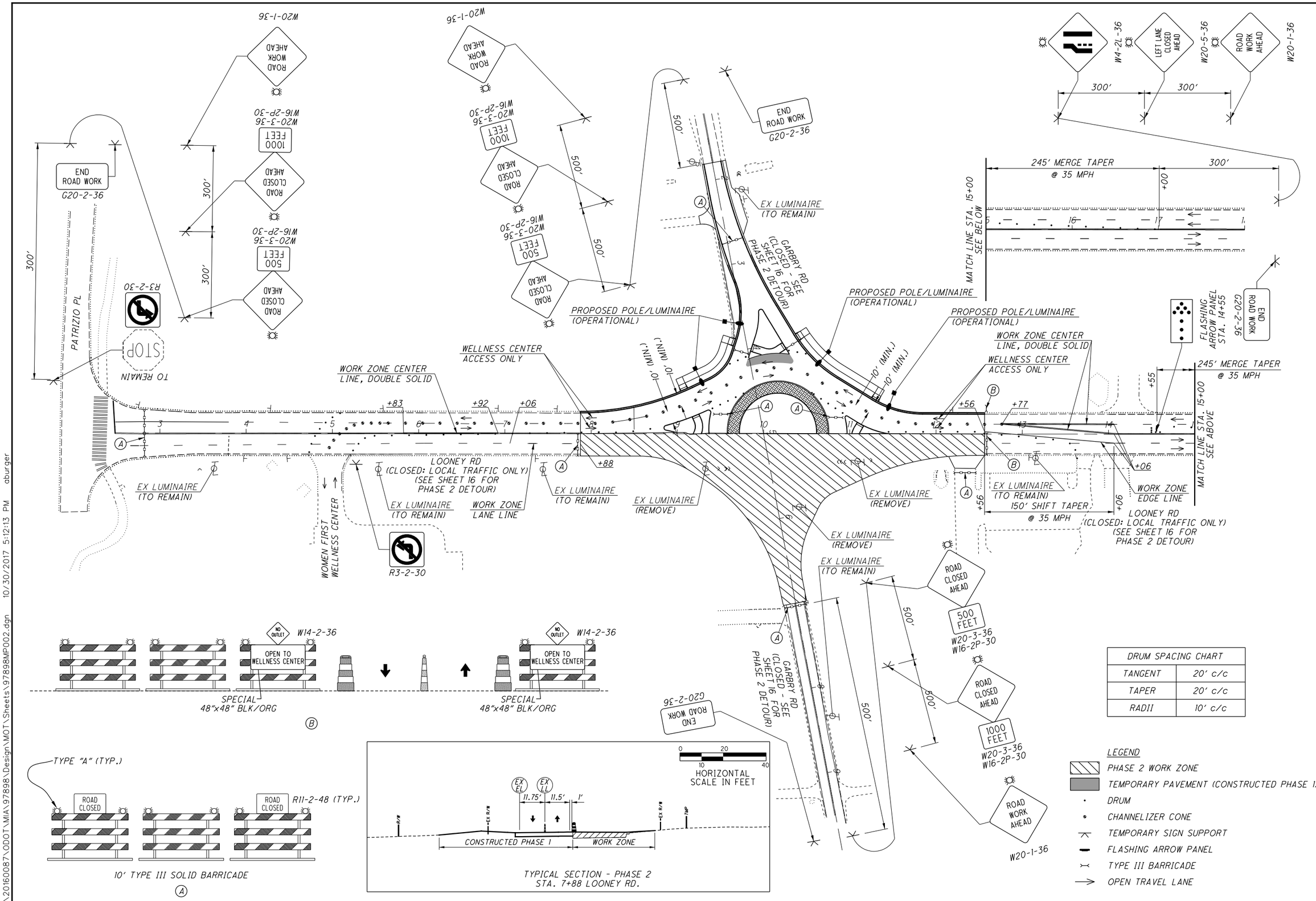

MAINTENANCE OF TRAFFIC PLAN PHASE 2

MIA-LOONEY/ GARBRY RNDBT

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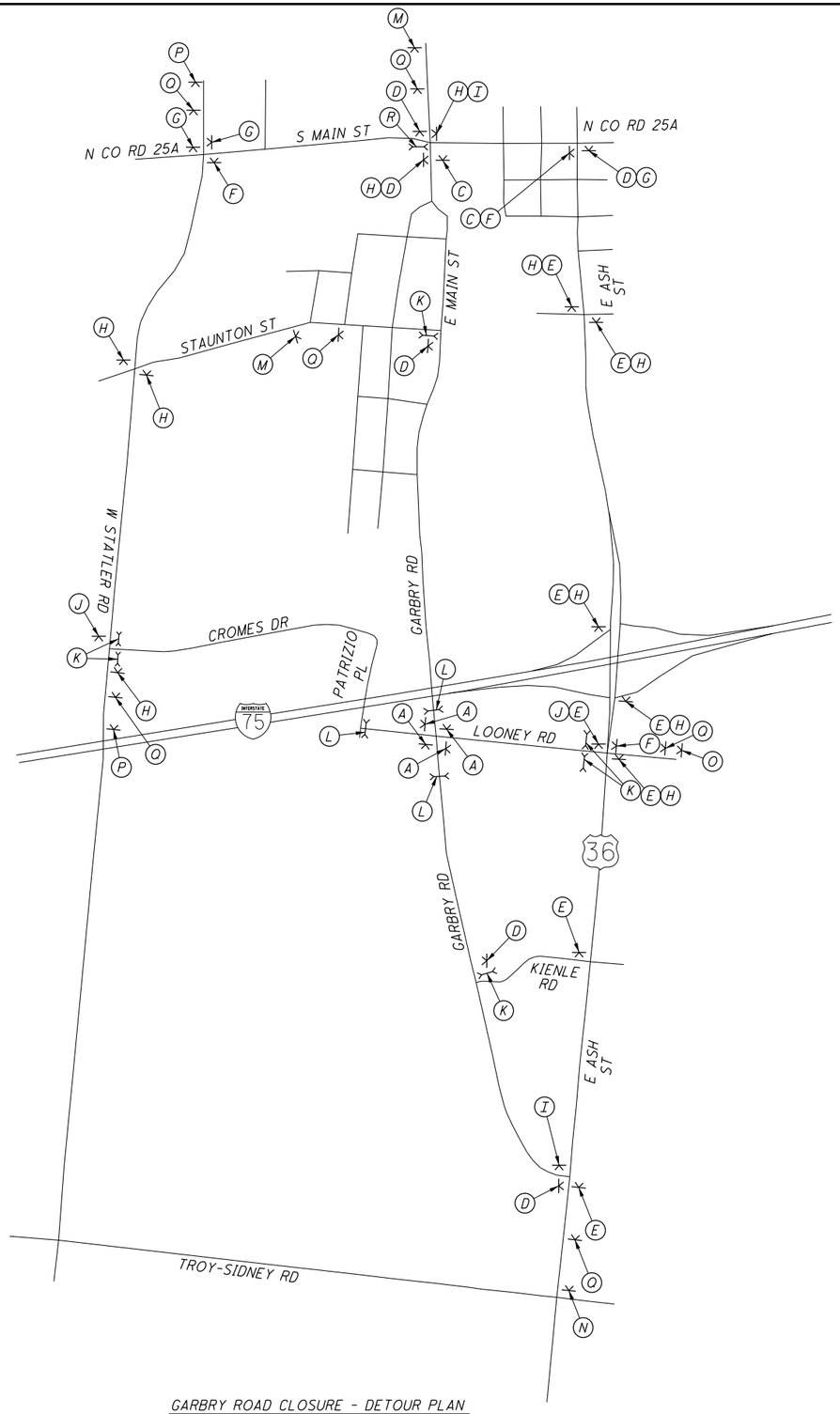

GARBRY ROAD CLOSURE - DETOUR PLAN

⊼ = TEMPORARY SIGN SUPPORT

⋊ = TYPE III BARRICADE

PLACE 7 DAYS PRIOR TO CLOSURE

GARBRY ROAD WILL BE CLOSED DATE FOR # DAYS

W20-H14-60 (A)

PLACE 7 DAYS PRIOR TO CLOSURE

LOONEY ROAD WILL BE CLOSED DATE FOR # DAYS

W20-H14-60 (B)

48" x 12" BLK/ORG — GARBRY ROAD — DETOUR → M4-9R-48 (C)

48" x 12" BLK/ORG — GARBRY ROAD — DETOUR ← M4-9L-48 (D)

48" x 12" BLK/ORG — GARBRY ROAD — DETOUR ↑ M4-9C-48 (E)

48" x 12" BLK/ORG — LOONEY ROAD — DETOUR → M4-9R-48 (F)

48" x 12" BLK/ORG — LOONEY ROAD — DETOUR ← M4-9L-48 (G)

48" x 12" BLK/ORG — LOONEY ROAD — DETOUR ↑ M4-9C-48 (H)

48" x 12" BLK/ORG — GARBRY ROAD — END DETOUR M4-8A-48 (I)

48" x 12" BLK/ORG — LOONEY ROAD — END DETOUR M4-8A-48 (J)

TYPE "A" (TYP.)

ROAD CLOSED
0.3 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60

6' TYPE III SOLID BARRICADE (K)

SPECIAL 72"x24" BLK/ORG

TYPE "A" (TYP.)

ROAD CLOSED — ROAD CLOSED — R11-2-48 (TYP.)

10' TYPE III SOLID BARRICADE (L)

SEE SHEET 15 FOR ACTUAL LOCATION AS WELL AS ADVANCED CLOSURE SIGNAGE

SPECIAL 72"x24" BLK/ORG — GARBRY RD CLOSED WEST OF LOONEY RD FOLLOW DETOUR (M)

FONT: E (MOD)/2K 4" HEIGHT/3" SPACING

SPECIAL 72"x24" BLK/ORG — GARBRY RD CLOSED EAST OF LOONEY RD FOLLOW DETOUR (N)

FONT: E (MOD)/2K 4" HEIGHT/3" SPACING

SPECIAL 78"x24" BLK/ORG — LOONEY RD CLOSED NORTH OF GARBRY RD FOLLOW DETOUR (O)

FONT: E (MOD)/2K 4" HEIGHT/3" SPACING

SPECIAL 78"x24" BLK/ORG — LOONEY RD CLOSED SOUTH OF GARBRY RD FOLLOW DETOUR (P)

FONT: E (MOD)/2K 4" HEIGHT/3" SPACING

DETOUR AHEAD

W20-2-36 (O)

TYPE "A" (TYP.)

ROAD CLOSED
1.2 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3a-60

DETOUR

M4-10L-48

6' TYPE III SOLID BARRICADE (R)

NO SCALE

CALCULATED SMM
CHECKED JDS

MAINTENANCE OF TRAFFIC - DETOUR PLAN
PHASES 2 & 3

MIA-LOONEY/
GARBRY RNDBT

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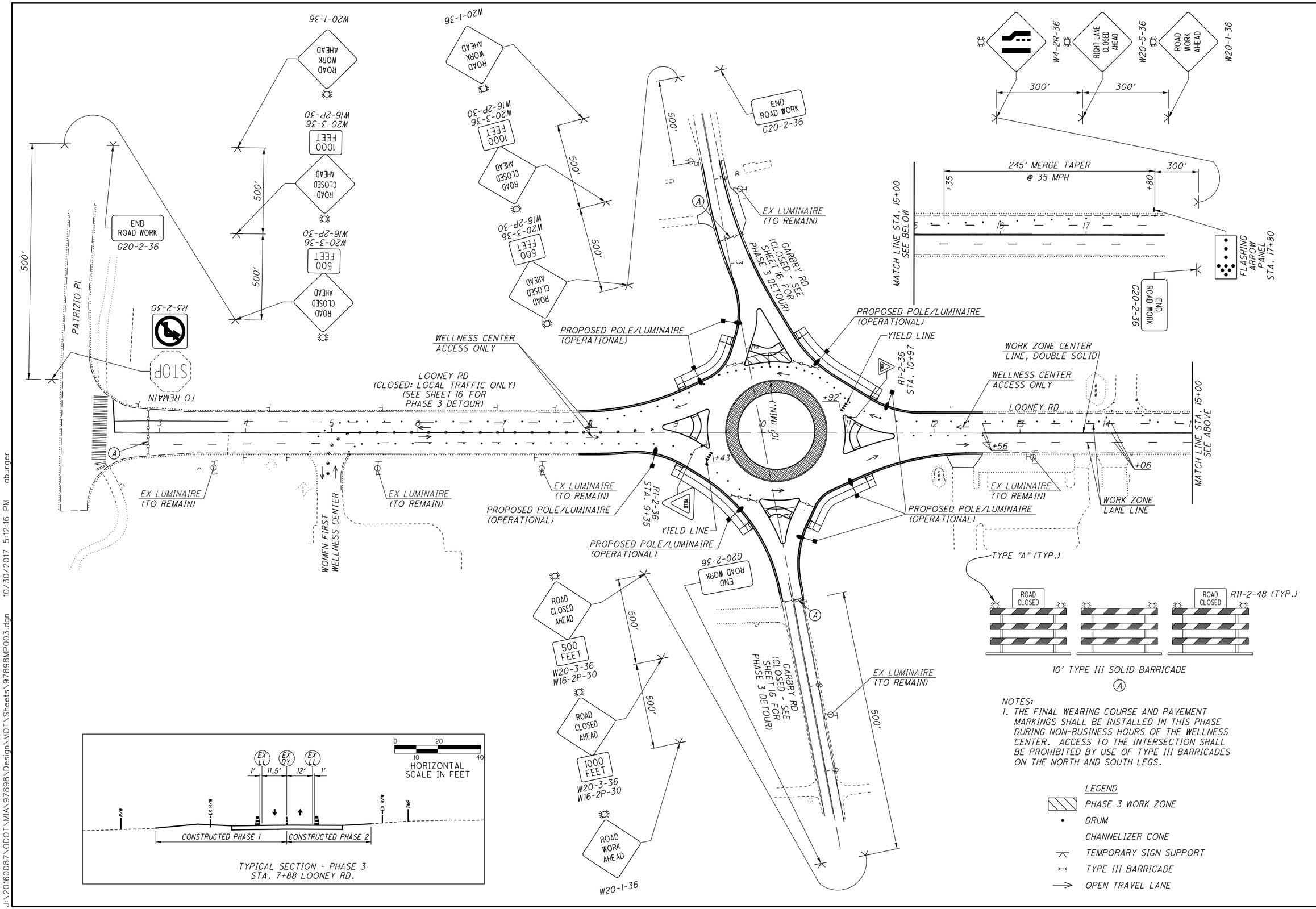

NOTES:
1. THE FINAL WEARING COURSE AND PAVEMENT MARKINGS SHALL BE INSTALLED IN THIS PHASE DURING NON-BUSINESS HOURS OF THE WELLNESS CENTER. ACCESS TO THE INTERSECTION SHALL BE PROHIBITED BY USE OF TYPE III BARRICADES ON THE NORTH AND SOUTH LEGS.

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED SMM
CHECKED JDS

MAINTENANCE OF TRAFFIC PLAN
PHASE 3

MIA-LOONEY/
GARBRY RNDBT

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SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
				9	10	21	22	23	24	25	64		01/S>2>PV						
																		ROADWAY	
													LS	201	11000	LS		CLEARING AND GRUBBING	9
						55							55	202	23000	55	SY	PAVEMENT REMOVED	
						4,386							4,386	202	23010	4,386	SY	PAVEMENT REMOVED, ASPHALT	
						1,186							1,186	202	32500	1,186	FT	CURB AND GUTTER REMOVED	
						1,053							1,053	202	35100	1,053	FT	PIPE REMOVED, 24" AND UNDER	
						4							4	202	58000	4	EACH	MANHOLE REMOVED	
						8							8	202	58100	8	EACH	CATCH BASIN REMOVED	
						244							244	202	75000	244	FT	FENCE REMOVED	
								516					516	203	10000	516	CY	EXCAVATION	
								3,800					3,800	203	20000	3,800	CY	EMBANKMENT	
										5,683			5,683	204	10000	5,683	SY	SUBGRADE COMPACTION	
					284								284	204	13000	284	CY	EXCAVATION OF SUBGRADE	
					284								284	204	30010	284	CY	GRANULAR MATERIAL, TYPE B	
					3								3	204	45000	3	HOUR	PROOF ROLLING	
					568								568	204	50000	568	SY	GEOTEXTILE FABRIC	
							2,252						2,252	608	52000	2,252	SF	CURB RAMP, TYPE A2	
											1		1	623	40500	1	EACH	REFERENCE MONUMENT, TYPE A	
											11		11	623	40520	11	EACH	RIGHT-OF-WAY MONUMENT	
					285								285	861	10000	285	SY	GEOGRID FOR SUBGRADE STABILIZATION	
																		EROSION CONTROL	
					20				2				22	601	21050	22	SY	TIED CONCRETE BLOCK MAT, TYPE 1	
									31				31	601	21060	31	SY	TIED CONCRETE BLOCK MAT, TYPE 2	
				2									2	659	00100	2	EACH	SOIL ANALYSIS TEST	
				536									536	659	00300	536	CY	TOPSOIL	
				4,831									4,831	659	10000	4,831	SY	SEEDING AND MULCHING	
				242									242	659	14000	242	SY	REPAIR SEEDING AND MULCHING	
				242									242	659	15000	242	SY	INTER-SEEDING	
				1.09									1.09	659	20000	1.09	TON	COMMERCIAL FERTILIZER	
				1									1	659	31000	1	ACRE	LIME	
				27									27	659	35000	27	MGAL	WATER	
													LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
													14,000	832	30000	14,000	EACH	EROSION CONTROL	
																		DRAINAGE	
									1,683				1,683	605	06000	1,683	FT	4" BASE PIPE UNDERDRAINS	
					50								50	605	05200	50	FT	4" UNCLASSIFIED PIPE UNDERDRAINS	
					50				222				272	611	00410	272	FT	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	
					100				95				195	611	04400	195	FT	12" CONDUIT, TYPE B	
					50				254				304	611	04600	304	FT	12" CONDUIT, TYPE C	
									36				36	611	04900	36	FT	12" CONDUIT, TYPE D	
									174				174	611	05900	174	FT	15" CONDUIT, TYPE B	
									56				56	611	06100	56	FT	15" CONDUIT, TYPE C	
									368				368	611	10600	368	FT	24" CONDUIT, TYPE C	
									7				7	611	98180	7	EACH	CATCH BASIN, NO. 3A	
									3				3	611	98470	3	EACH	CATCH BASIN, NO. 2-2B	
									6				6	611	99574	6	EACH	MANHOLE, NO. 3	
									1				1	611	99582	1	EACH	MANHOLE, NO. 3 WITH 90" BASE I.D. AND 8" WEIR	
									2				2	611	98630	2	EACH	CATCH BASIN ADJUSTED TO GRADE	
									1				1	611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
									3				3	611	99660	3	EACH	MANHOLE RECONSTRUCTED TO GRADE	
									1				1	611	99661	1	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	10
					1				1				2	611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
									1				1	895	10020	1	EACH	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 2	10

CALCULATED RSH
CHECKED AKB

GENERAL SUMMARY

MIA-LOONEY/
GARBRY RNDBT

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SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
				10	21	22	25	49	50	51	58	60	01/S>2>PV						
																		PAVEMENT	
							1,827						1,827	254	01000	1,827	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" DEPTH	
							917						917	301	46000	917	CY	ASPHALT CONCRETE BASE, PG64-22	
							1,055						1,055	304	20000	1,055	CY	AGGREGATE BASE	
							672						672	407	10000	672	GAL	TACK COAT	
							293						293	441	50000	293	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
							685						685	441	50300	685	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
							54						54	452	12010	54	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	
							467						467	452	19200	467	SY	NON-REINFORCED CONCRETE PAVEMENT, MISC.: TRUCK APRON PAVEMENT (T=8")	10
						1,208							1,208	609	12001	1,208	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	10
						913							913	609	26000	913	FT	CURB, TYPE 6	
						445							445	609	50000	445	SY	4" CONCRETE TRAFFIC ISLAND	
						371							371	609	98000	371	FT	CURB, MISC.: MOUNTABLE CURB, AS PER PLAN	10
																		WATER WORK	
					1								1	638	10400	1	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
					4								4	638	10800	4	EACH	VALVE BOX ADJUSTED TO GRADE	
																		SANITARY SEWER	
				50									50	611	01800	50	FT	8" CONDUIT, TYPE B, FOR SANITARY	
				50									50	611	02000	50	FT	8" CONDUIT, TYPE C, FOR SANITARY	
																		LIGHTING	
											8		8	625	14501	8	EACH	LIGHT POLE FOUNDATION, AS PER PLAN	57
											841		841	625	25408	841	FT	CONDUIT, 2", 725.051	
											329		329	625	25500	329	FT	CONDUIT, 3", 725.04	
											1,170		1,170	625	29000	1,170	FT	TRENCH	
											11		11	625	30700	11	EACH	PULL BOX, 725.08, 18"	
											8		8	625	32000	8	EACH	GROUND ROD	
											1,170		1,170	625	36000	1,170	FT	PLASTIC CAUTION TAPE	
													LS	SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	57
																		TRAFFIC CONTROL	
									220	142			362	630	03100	362	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
									140				140	630	04100	140	FT	GROUND MOUNTED SUPPORT, NO. 4 POST, TYPE S	
									72				72	630	08510	72	FT	STREET NAME SIGN SUPPORT, NO. 2 POST	
									8				8	630	08600	8	EACH	SIGN POST REFLECTOR	
									241.82	82.75			324.57	630	80100	324.57	SF	SIGN, FLAT SHEET	
									13				13	630	84900	13	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
									8				8	630	86002	8	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								0.21					0.21	644	00100	0.21	MILE	EDGE LINE, 4"	
								0.15					0.15	644	00200	0.15	MILE	LANE LINE, 4"	
								0.18					0.18	644	00300	0.18	MILE	CENTER LINE	
								677					677	644	00400	677	FT	CHANNELIZING LINE, 8"	
								99					99	644	00720	99	FT	CHEVRON MARKING	
								12					12	644	01300	12	EACH	LANE ARROW	
								216					216	644	01520	216	FT	DOTTED LINE, 12"	
								87					87	644	20800	87	FT	YIELD LINE	48
								390					390	647	20010	390	FT	CROSSWALK LINE, TYPE B90	
																		LANDSCAPING	
												90	90	661	14000	90	EACH	PERENNIALS, FROSTY ELEGANCE DAYLILY	61
												21	21	661	14000	21	EACH	PERENNIALS, HIDECOTE LAVENDER	61
												10	10	661	14000	10	EACH	PERENNIALS, MAIDEN GRASS	61
												35	35	SPECIAL	69098000	35	EACH	BENCH STONE	60
						2							2	666	10011	2	EACH	PRUNING EXISTING TREE, 16 TO 24-INCH DIAMETER, AS PER PLAN	60

CALCULATED RSH
CHECKED AKB

GENERAL SUMMARY

MIA-LOONEY/
GARBRY RNDBT

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SHEET NUM.	PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
12	01/S>2>PV						
						MAINTENANCE OF TRAFFIC	
40	40	614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	12
LS	LS	614	12420	LS		DETOUR SIGNING	
0.07	0.07	614	20100	0.07	MILE	WORK ZONE LANE LINE, CLASS I, 642 PAINT	
0.26	0.26	614	21100	0.26	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
0.18	0.18	614	22100	0.18	MILE	WORK ZONE EDGE LINE, CLASS I, 642 PAINT	
37	37	614	26200	37	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
50	50	615	20000	50	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
50	50	616	10000	50	MGAL	WATER	
						INCIDENTALS	
LS	LS	614	11000	LS		MAINTAINING TRAFFIC	11
	6	619	16010	6	MNTH	FIELD OFFICE, TYPE B	
	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
	LS	624	10000	LS		MOBILIZATION	

CALCULATED RSH
CHECKED AKB

GENERAL SUMMARY

MIA-LOONEY/
GARBRY RNDBT

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SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	CENTERLINE ROADWAY REFERENCE	202 PAVEMENT REMOVED	202 PAVEMENT REMOVED, ASPHALT	202 CURB AND GUTTER REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 FENCE REMOVED	638 FIRE HYDRANT ADJUSTED TO GRADE	638 VALVE BOX ADJUSTED TO GRADE
						SY	SY	FT	FT	EACH	EACH	FT	EACH	EACH
27	R1	01+80	07+00	LT/RT	GARBRY		4386							
27	R2	02+54	08+77	LT/RT	GAR./LOON.							244		
27	R3	02+75	11+90	LT	GAR./LOON.				345	4				
27	R4	03+01	03+88	LT/RT	GARBRY				107		2			
27	R5	03+75	07+88	LT/RT	GAR./LOON.			239						
27 - 28	R6	03+77	07+00	LT	GAR./LOON.			325						
27	R7	03+88		LT	GARBRY				21		1			
27	R8	04+17	08+91	LT/RT	GAR./LOON.				81		1			
27	R9	04+17	05+55	RT	GARBRY				133		1			
27	R10	05+55	06+69	RT	GARBRY				111					
27	R11	07+87	06+45	RT	GAR./LOON.			302						
27	R12	07+99	08+18	LT	LOONEY				19					
27 - 28	R13	06+59	12+56	LT/RT	GAR./LOON.			320						
27 - 28	R14	10+73		LT	LOONEY				6		1			
27	R15	11+22		LT	LOONEY				5		1			
27	WW1	02+16		RT	GARBRY								1	
27	WW2	05+14		RT	GARBRY									1
27	WW3	05+18		RT	GARBRY									1
27	WW4	05+30		RT	GARBRY									1
27	WW5	05+46		RT	GARBRY									1
28	R1	11+25	11+57	LT/RT	LOONEY				63		1			
28	R2	11+57	12+55	RT	LOONEY				96					
28	R3	12+14	12+56	RT	LOONEY	55								
28	R4	11+90	12+20	LT	LOONEY				30					
28	R5	12+20	12+56	LT	LOONEY				36					
TOTALS CARRIED TO GENERAL SUMMARY						55	4,386	1,186	1,053	4	8	244	1	4

CALCULATED RSH
CHECKED AKB

REMOVAL SUBSUMMARY

MIA-LOONEY/
GARBRY RNDBT

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SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	CENTERLINE ROADWAY REFERENCE	608 CURB RAMP, TYPE A2		609 COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN (NORMAL)	609 COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN (INVERTED)	609 CURB, TYPE 6	609 4" CONCRETE TRAFFIC ISLAND	609 CURB, MISC.: MOUNTABLE CURB, AS PER PLAN		666 PRUNING EXISTING TREE, 16 TO 24-INCH DIAMETER, AS PER PLAN								
						SF		FT	FT	FT	SY	FT		EACH								
27	C1	02+93	12+56	LT	GAR./LOON.			337														
27	C2	03+00	07+88	LT/RT	GAR./LOON.			281														
27	C3	03+57	04+26	LT	GARBRY					180												
27	C4	07+88	06+90	RT	GAR./LOON.			202	97													
27	C5	12+56	06+90	LT/RT	GAR./LOON.			188	103													
27	C6	05+75	06+31	LT/RT	GARBRY					145												
27	C7	08+84	09+40	LT/RT	LOONEY					148												
27	C8	10+94	11+54	LT/RT	LOONEY					157												
27	C9	00+00	03+71	LT	CIRCLE							371										
27	C10	00+00	03+71	LT	CIRCLE					283												
27	M1	03+57	04+26	LT	GARBRY						151											
27	M2	05+75	06+31	CENTER	GARBRY						97											
27	M3	08+84	09+40	CENTER	LOONEY						96											
27 - 28	M4	10+96	11+54	CENTER	LOONEY						101											
27	T1	01+95		RT	GARBRY									1								
27	T2	02+25		RT	GARBRY									1								
27	W1	03+88	11+40	LT	GAR./LOON.	254																
27	W2	03+79	08+98	LT/RT	GAR./LOON.	254																
27	W3	03+95	04+13	LT/RT	GARBRY	371																
27	W4	08+95	06+13	RT	GAR./LOON.	257																
27	W5	11+33	06+26	LT/RT	GAR./LOON.	254																
27	W6	05+76	06+31	LT/RT	GARBRY	290																
27	W7	08+85	09+39	LT/RT	LOONEY	277																
27	W8	10+95	11+54	LT/RT	LOONEY	295																
					SUBTOTAL			1008	200													
TOTALS CARRIED TO GENERAL SUMMARY						2,252		1,208		913	445	371		2								

CALCULATED RSH
CHECKED AKB

ROADWAY SUBSUMMARY

MIA-LOONEY/
GARBRY RNDBT

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SHEET NO.	STATION FROM	STATION TO	EXC. CU. YD.	EMB. CU. YD.	SHEET NO.	STATION FROM	STATION TO	EXC. CU. YD.	EMB. CU. YD.	SHEET NO.	STATION FROM	STATION TO	EXC. CU. YD.	EMB. CU. YD.
	GARBRY ROAD					LOONEY ROAD					INTERSECTION GARBRY/LOONEY			
					36	5+50.00	6+50.00	0	0					
31	1+51.26	2+00.00	37	23	37	7+00.00	7+87.71	0	0		GARBRY STA 3+50.00 TO STA 6+00.00 AND			
32	2+50.00	3+50.00	58	262	38	8+00.00	9+00.00	50	291		LOONEY STA 9+00.00 TO 11+50.00		214	3,152
CROSS SECTIONS SUSPENDED FROM 3+50 TO 6+00					CROSS SECTIONS SUSPENDED FROM 9+00 TO 11+50									
SEE INSTERSECTION GARBRY/LOONEY FOR QUANTITIES					SEE INSTERSECTION GARBRY/LOONEY FOR QUANTITIES									
34	6+00.00	6+50.00	92	48	39	11+50.00	12+50.00	41	12					
35	7+00.00	8+00.00	24	12										
	GARBRY ROAD SUBTOTALS		211	345		LOONEY ROAD SUBTOTALS		91	303		INTERSECTION GARBRY/LOONEY SUBTOTALS		214	3,152
											TOTALS CARRIED TO GENERAL SUMMARY		516	3,800

CALCULATED RSH
CHECKED AKB

EARTHWORK SUBSUMMARY

MIA-LOONEY/
GARBRY RNDBT

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SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	CENTERLINE ROADWAY REFERENCE	OUTLET ELEVATION	601 TIED CONCRETE BLOCK MAT, TYPE 1	601 TIED CONCRETE BLOCK MAT, TYPE 2	605 4" BASE PIPE UNDERDRAINS	611 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	611 12" CONDUIT, TYPE B	611 12" CONDUIT, TYPE C	611 12" CONDUIT, TYPE D	611 15" CONDUIT, TYPE B	611 15" CONDUIT, TYPE C	611 24" CONDUIT, TYPE C	611 CATCH BASIN, NO. 3A	611 CATCH BASIN, NO. 2-2B	611 MANHOLE, NO. 3	611 MANHOLE, NO. 3 WITH 90° BASE I.D. AND 8" WEIR	611 CATCH BASIN ADJUSTED TO GRADE	611 MANHOLE ADJUSTED TO GRADE	611 MANHOLE RECONSTRUCTED TO GRADE	611 MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	611 PRECAST REINFORCED CONCRETE OUTLET	895 MANUFACTURED WATER QUALITY STRUCTURE, TYPE 2	BENDS AND BRANCHES PLUG	4" x 45° BEND	4" x 90° BEND	4" x 4" TEE	4" x 4" WYE
							SY	SY	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		EACH	EACH	EACH
27	D1	02+26	02+62	RT	GARBRY								36														FOR INFORMATION ONLY				
27	D2	02+75	02+76	LT	GARBRY							9						1	1													
27	D3	02+75	04+16	LT	GARBRY											147			1													
27	D4	09+18	09+60	RT	LOONEY							55							1													
27	D5	06+31	06+69	RT	GARBRY							38									1											
27	D6	07+99	08+18	LT	LOONEY										48					1						1						
27	D7	08+08	08+17	LT	LOONEY							10					1															
27	D8	08+91	08+92	LT	LOONEY						41							1					1									
27	D9	08+91	09+18	LT/RT	LOONEY									81			1															
27	D10	09+60	10+03	RT	LOONEY							68					1															
27 - 28	D11	10+56	11+54	LT	LOONEY											113			1													
27 - 28	D12	11+10	11+51	LT/RT	LOONEY									93			1															
27	EC1	02+80	02+94	LT	GARBRY			17																								
27	EC2	02+92	03+03	RT	GARBRY			14																								
27	S1	03+65		LT	GARBRY																			1								
27	S2	05+00		LT	GARBRY																		1									
27	S3	10+90		LT	LOONEY																		1									
27	UD1	01+52	04+19	LT/RT	GARBRY	921.5	2		248	61															1		1	1	2	1		
27	UD2	01+80	04+26	RT	GARBRY				271																		1					
27	UD3	04+16	05+40	LT	GARBRY	925.56			133	57																	1			1	1	
27	UD4	04+64	05+39	LT/RT	GARBRY				141																		1					
27	UD5	04+20	04+49	LT	GARBRY				39																		1					
27	UD6	05+29	06+28	RT	GARBRY	927.15			110	10																	1					
27	UD7	05+74	06+32	LT	GARBRY	927.25			89	10																	1					
27	UD8	06+32	07+00	RT	GARBRY	929.19			58	10																	1					
27	UD9	06+32	07+00	LT	GARBRY	929.19			70																		1					
27	UD10	07+88	08+14	LT	LOONEY				26																		1					
27	UD11	07+88	09+15	RT	LOONEY				131																		1					
27	UD12	08+18	09+28	LT	LOONEY	924.5			106	10																	1					
27 - 28	UD13	10+88	11+50	LT	LOONEY	925.76			62	10																	1					
27 - 28	UD14	11+13	11+89	RT	LOONEY	925.36			72	54																	1			1		
28	D1	11+51	11+54	LT	LOONEY										8		1															
28	D2	11+54	11+64	LT	LOONEY							18						1														
28	D3	11+54	11+95	LT	LOONEY											41						1										
28	D4	11+89		LT	LOONEY																1											
28	D5	11+90	12+20	LT	LOONEY											30			1													
28	D6	12+20	12+20	LT	LOONEY							9					1															
28	D7	12+20	12+56	LT	LOONEY											37			1													
28	D8	12+51	12+51	LT	LOONEY							9					1															
28	D9	12+51	12+55	LT/RT	LOONEY						54																					
28	UD1	11+54	11+87	LT	LOONEY	925.36			23			10															1					
28	UD2	11+81	12+53	RT	LOONEY				72																		1					
28	UD3	11+92	12+17	LT	LOONEY	925.36			15			10															1					
28	UD4	12+21	12+47	LT	LOONEY	925.76			17			10															1					
28	UD5	12+52	12+56	LT	LOONEY	926.06						4																				
28	UD6	12+56	12+56	RT	LOONEY	927.52						4																	1			
TOTALS CARRIED TO GENERAL SUMMARY							2	31	1,683	222	95	254	36	174	56	368	7	3	6	1	2	1	3	1	1	1					

CALCULATED RSH
CHECKED AKB

DRAINAGE SUBSUMMARY

MIA-LOONEY/ GARBRY RNDBT

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DESCRIPTION	SIDE	STATION FROM	STATION TO	LENGTH or ADJUSTED LENGTH	BEGIN WIDTH	BEGIN WIDTH	AVERAGE WIDTH	TOTAL AREA (SQ FT)	204 SUBGRADE COMPACTION (SY)	254 1.5" PAVEMENT PLANING, ASPHALT CONCRETE (SY)	301 7" ASPHALT CONCRETE BASE, PG64-22 (CY)	304 6" AGGREGATE BASE (CY)	304 8" AGGREGATE BASE (CY)	407 TACK COAT (APPLICATION 0.055 GAL / SY) (GAL)	407 TACK COAT (APPLICATION 0.085 GAL / SY) (GAL)	441 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 (CY)	441 2.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 (CY)	441 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) (CY)	452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 (SY)	452 NON-REINFORCED CONCRETE PAVEMENT, MISC.: TRUCK APRON PAVEMENT (T=8") (SY)		
GARBRY ROAD FULL DEPTH	LT/RT	1+80	3+57	177	CADD AREA			5,085.43	632		113	97		62		24		82				
	LT/RT	6+31	7+00	69	CADD AREA			1,951.37	247		42	37		24		9		32				
LOONEY ROAD FULL DEPTH	LT/RT	7+88	8+84	96	CADD AREA			5,069.19	607		110	94		62		23		82				
	LT/RT	11+54	12+56	102	CADD AREA			5,095.47	612		110	94		62		24		83				
INT - GARBRY AND LOONEY FULL DEPTH	LT/RT	3+57	6+31	274				25,086.13	3,010		542	620		307		116		406		467		
LOONEY ROAD PLANING AND RESURFACING	LT/RT	5+83	7+88	205	CADD AREA			9,790.02		1,088					92	45						
	LT/RT	12+56	14+06	150	CADD AREA			6,653.30		739					63	31						
GARBRY ROAD COMMERCIAL DRIVE 2+41	LT				CADD AREA			578.45	65				43									
GARBRY ROAD RESIDENTIAL DRIVE 2+45	RT				CADD AREA			246.49	29				18									
LOONEY ROAD COMMERCIAL DRIVE 12+34	RT				CADD AREA			483.81	59										54			
SHARED USE PATH	LT/RT	3+85	9+06		CADD AREA			830.38	82			15					6					
		GARBRY	LOONEY																			
	LT	3+95	11+36		CADD AREA			539.47	127			10					4					
		GARBRY	LOONEY																			
	RT	9+02	6+05		CADD AREA			772.09	118			14					6					
		LOONEY	GARBRY																			
	LT/RT	11+26	6+19		CADD AREA			626.00	96			12					5					
		LOONEY	GARBRY																			
								SUBTOTAL				994	61	517	155	272	21					
TOTALS CARRIED TO GENERAL SUMMARY									5,683	1,827	917	1,055		672		293		685	54	467		

CALCULATED RSH
CHECKED AKB

PAVEMENT CALCULATIONS

MIA-LOONEY/ GARBRY RNDBT

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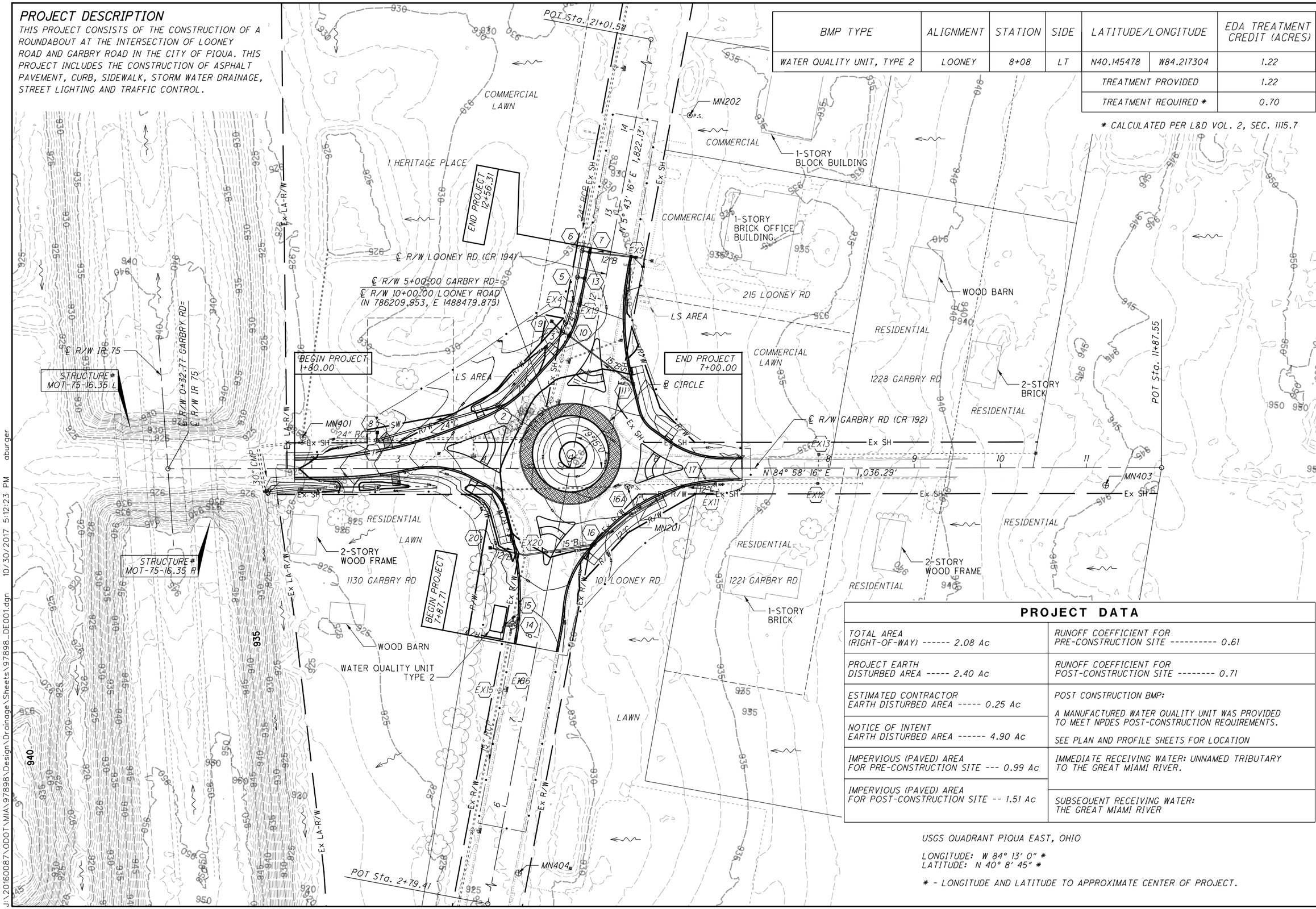
PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A ROUNDABOUT AT THE INTERSECTION OF LOONEY ROAD AND GARBRY ROAD IN THE CITY OF PIQUA. THIS PROJECT INCLUDES THE CONSTRUCTION OF ASPHALT PAVEMENT, CURB, SIDEWALK, STORM WATER DRAINAGE, STREET LIGHTING AND TRAFFIC CONTROL.

BMP TYPE	ALIGNMENT	STATION	SIDE	LATITUDE/LONGITUDE		EDA TREATMENT CREDIT (ACRES)
WATER QUALITY UNIT, TYPE 2	LOONEY	8+08	LT	N40.145478	W84.217304	1.22
				TREATMENT PROVIDED		1.22
				TREATMENT REQUIRED *		0.70

* CALCULATED PER L&D VOL. 2, SEC. 1115.7



PROJECT DATA

TOTAL AREA (RIGHT-OF-WAY) ------ 2.08 Ac	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE ---------- 0.61
PROJECT EARTH DISTURBED AREA ----- 2.40 Ac	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE -------- 0.71
ESTIMATED CONTRACTOR EARTH DISTURBED AREA ----- 0.25 Ac	POST CONSTRUCTION BMP: A MANUFACTURED WATER QUALITY UNIT WAS PROVIDED TO MEET NPDES POST-CONSTRUCTION REQUIREMENTS. SEE PLAN AND PROFILE SHEETS FOR LOCATION
NOTICE OF INTENT EARTH DISTURBED AREA ------ 4.90 Ac	
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE --- 0.99 Ac	IMMEDIATE RECEIVING WATER: UNNAMED TRIBUTARY TO THE GREAT MIAMI RIVER.
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE -- 1.51 Ac	SUBSEQUENT RECEIVING WATER: THE GREAT MIAMI RIVER

USGS QUADRANT PIQUA EAST, OHIO

LONGITUDE: W 84° 13' 0" *
LATITUDE: N 40° 8' 45" *

* - LONGITUDE AND LATITUDE TO APPROXIMATE CENTER OF PROJECT.

N

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RSH
CHECKED AKB

SITE PLAN

MIA-LOONEY/ GARBRY RNDBT

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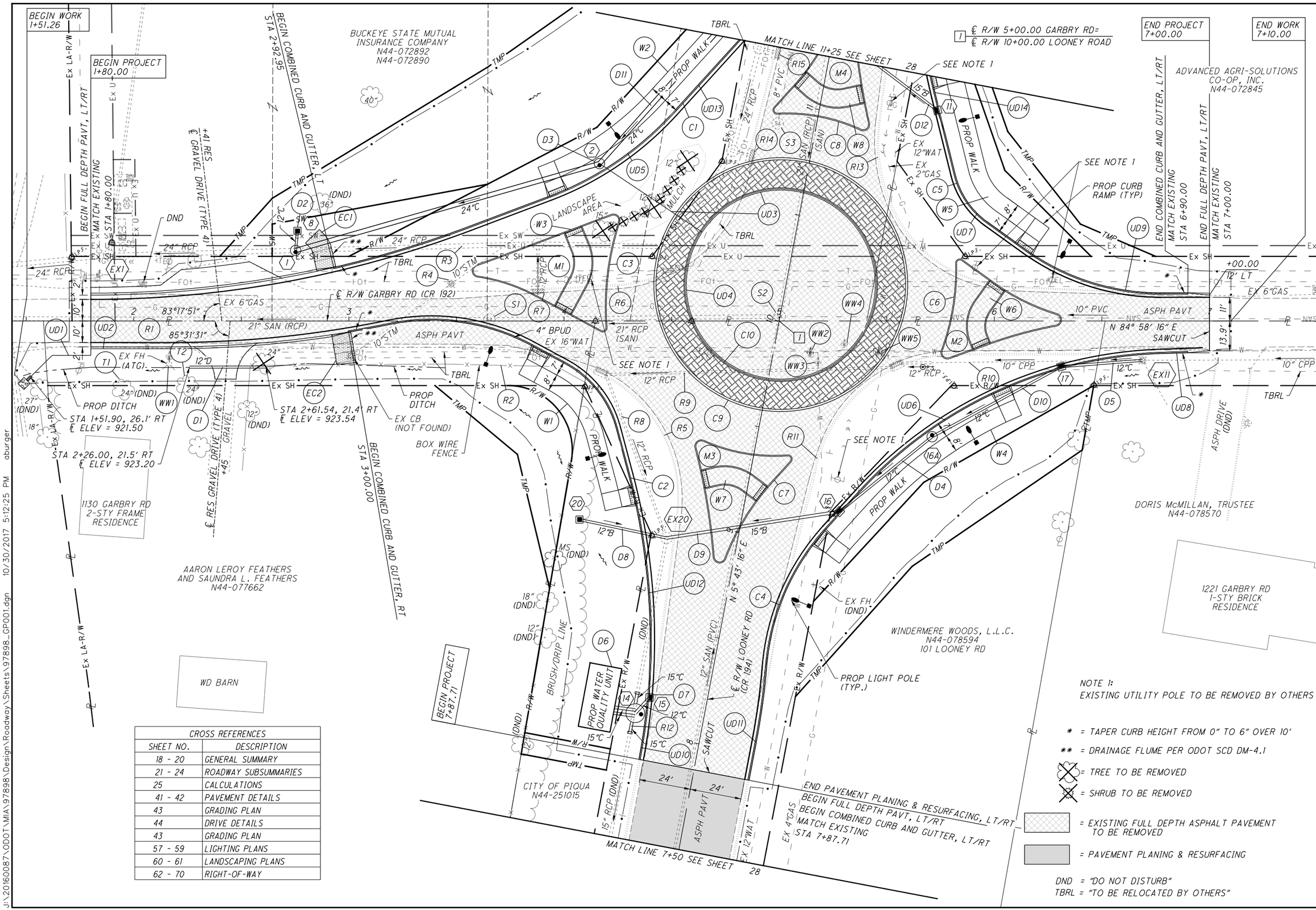

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
18 - 20	GENERAL SUMMARY
21 - 24	ROADWAY SUBSUMMARIES
25	CALCULATIONS
41 - 42	PAVEMENT DETAILS
43	GRADING PLAN
44	DRIVE DETAILS
43	GRADING PLAN
57 - 59	LIGHTING PLANS
60 - 61	LANDSCAPING PLANS
62 - 70	RIGHT-OF-WAY

NOTE 1:
EXISTING UTILITY POLE TO BE REMOVED BY OTHERS

* = TAPER CURB HEIGHT FROM 0" TO 6" OVER 10'

** = DRAINAGE FLUME PER ODOT SCD DM-4.1

= TREE TO BE REMOVED

= SHRUB TO BE REMOVED

= EXISTING FULL DEPTH ASPHALT PAVEMENT TO BE REMOVED

= PAVEMENT PLANING & RESURFACING

DND = "DO NOT DISTURB"
TBRL = "TO BE RELOCATED BY OTHERS"

PLAN - LOONEY/GARBRY
STA 1+50 TO STA 7+50

MIA-LOONEY/ GARBRY RNDBT

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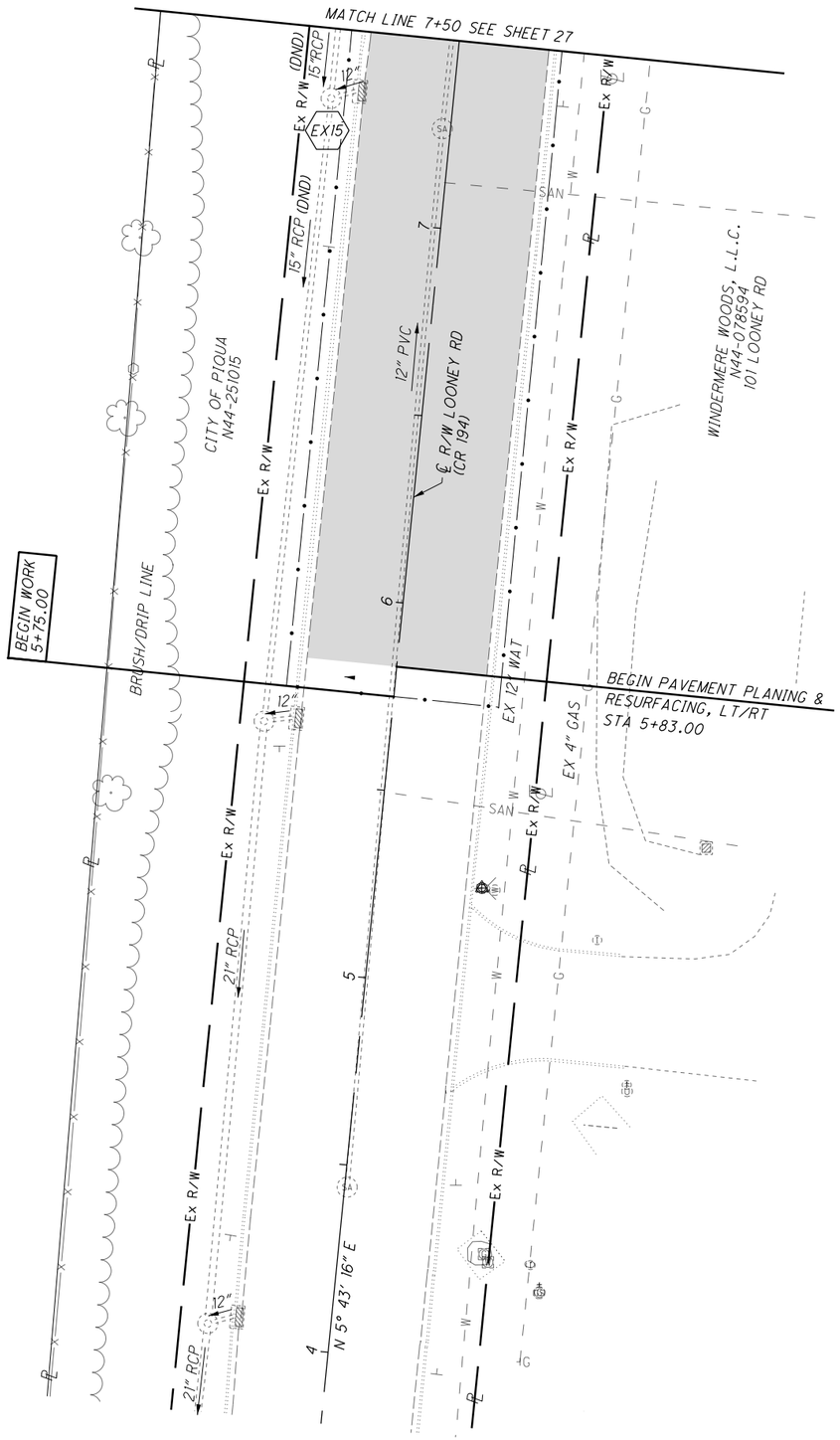

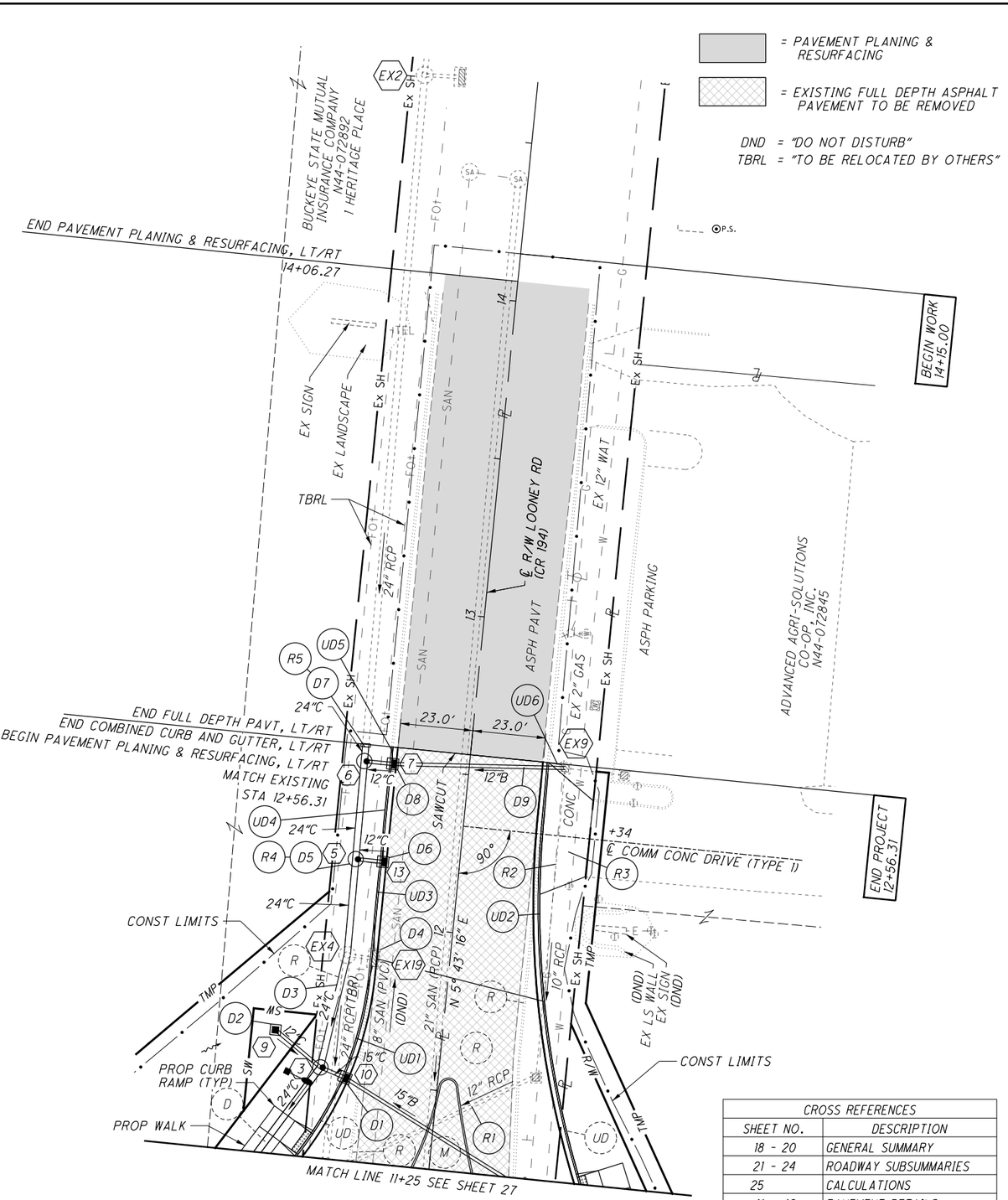

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
18 - 20	GENERAL SUMMARY
21 - 24	ROADWAY SUBSUMMARIES
25	CALCULATIONS
41 - 42	PAVEMENT DETAILS
43	GRADING PLAN
44	DRIVE DETAILS
43	GRADING PLAN
57 - 59	LIGHTING PLANS
60 - 61	LANDSCAPING PLANS
62 - 70	RIGHT-OF-WAY

CALCULATED RSH
CHECKED AKB

PLAN - LOONEY RD

STA 3+00 TO STA 7+50 & STA 11+25 TO STA 15+00

MIA-LOONEY/ GARBRY RNDBT

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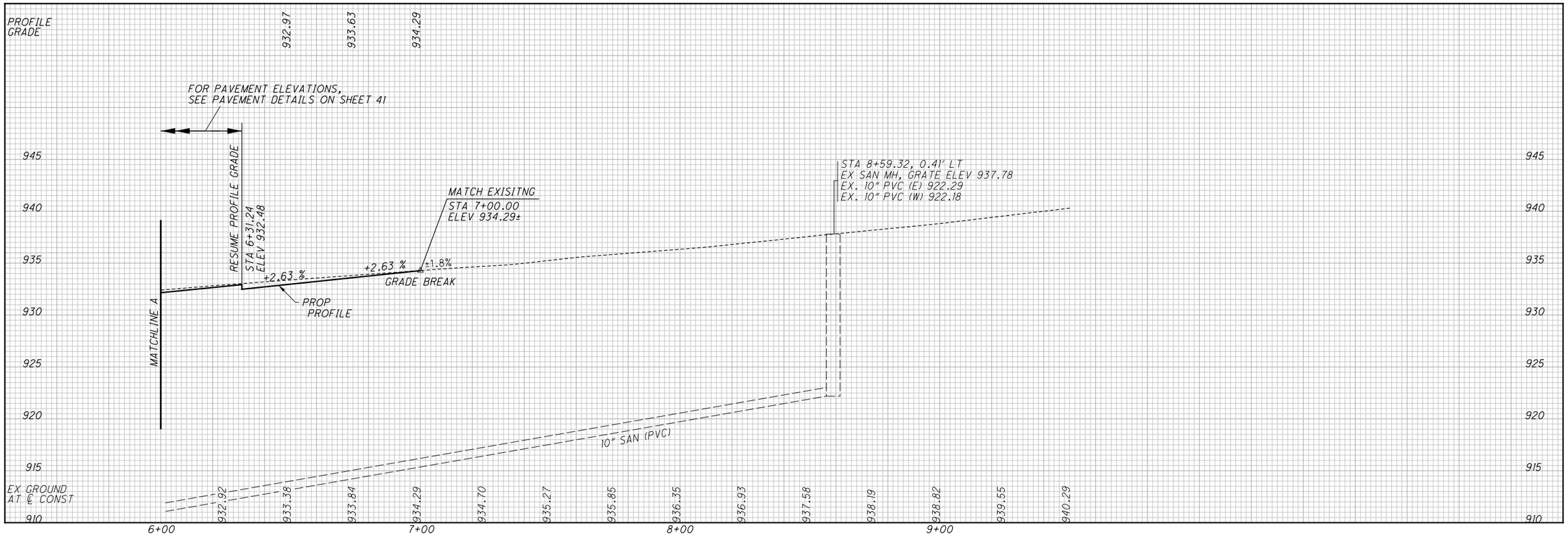

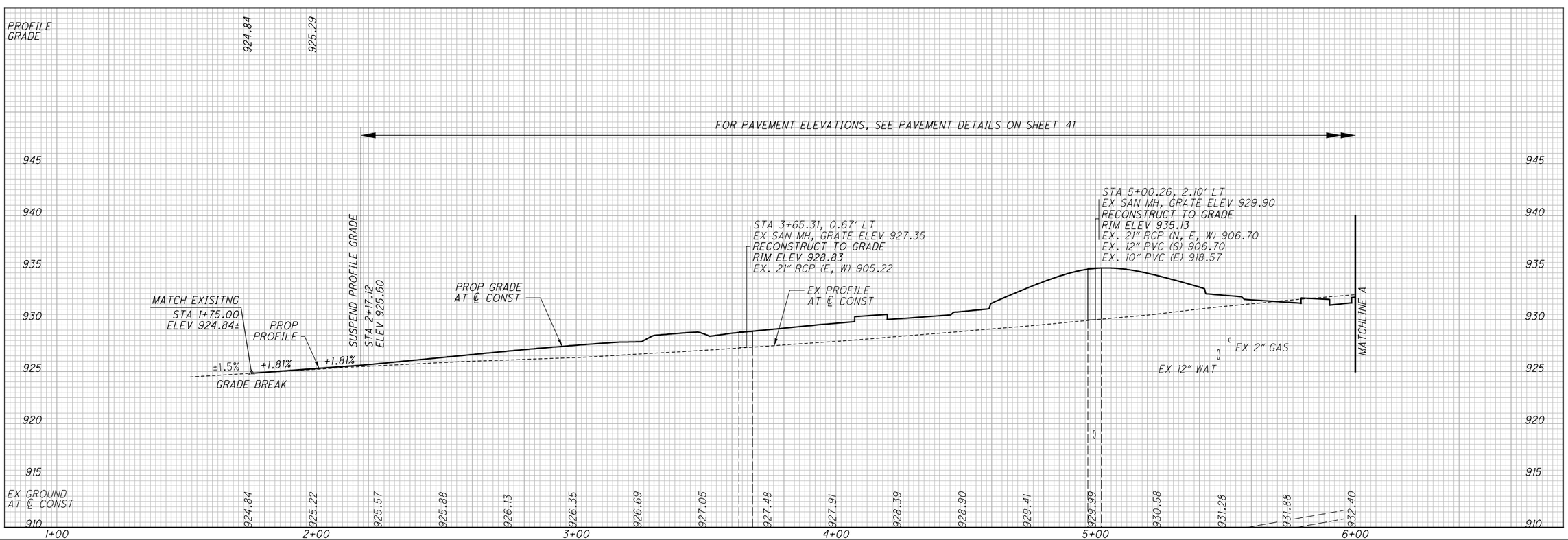

CALCULATED AKB
CHECKED NS

PROFILE - GARBRY ROAD

MIA-LOONEY / GARBRY RNDBT

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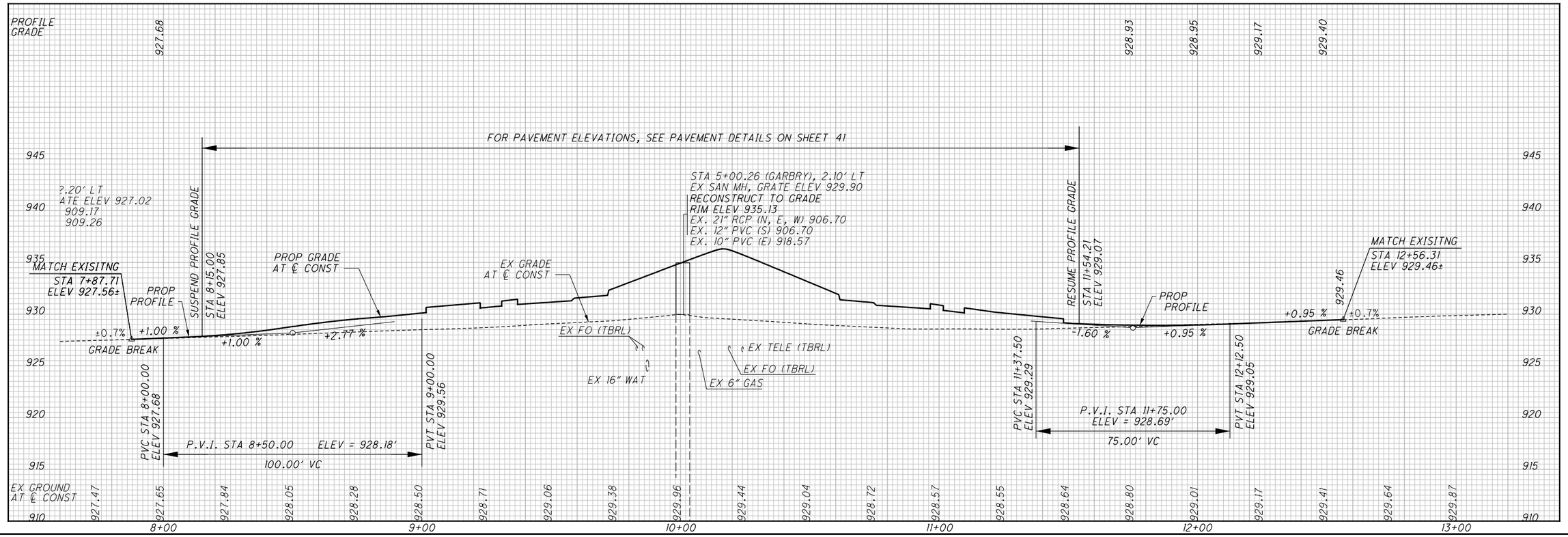

CALCULATED AKB
CHECKED NS

PROFILE - LOONEY ROAD

MIA-LOONEY/ GARBRY RNDBT

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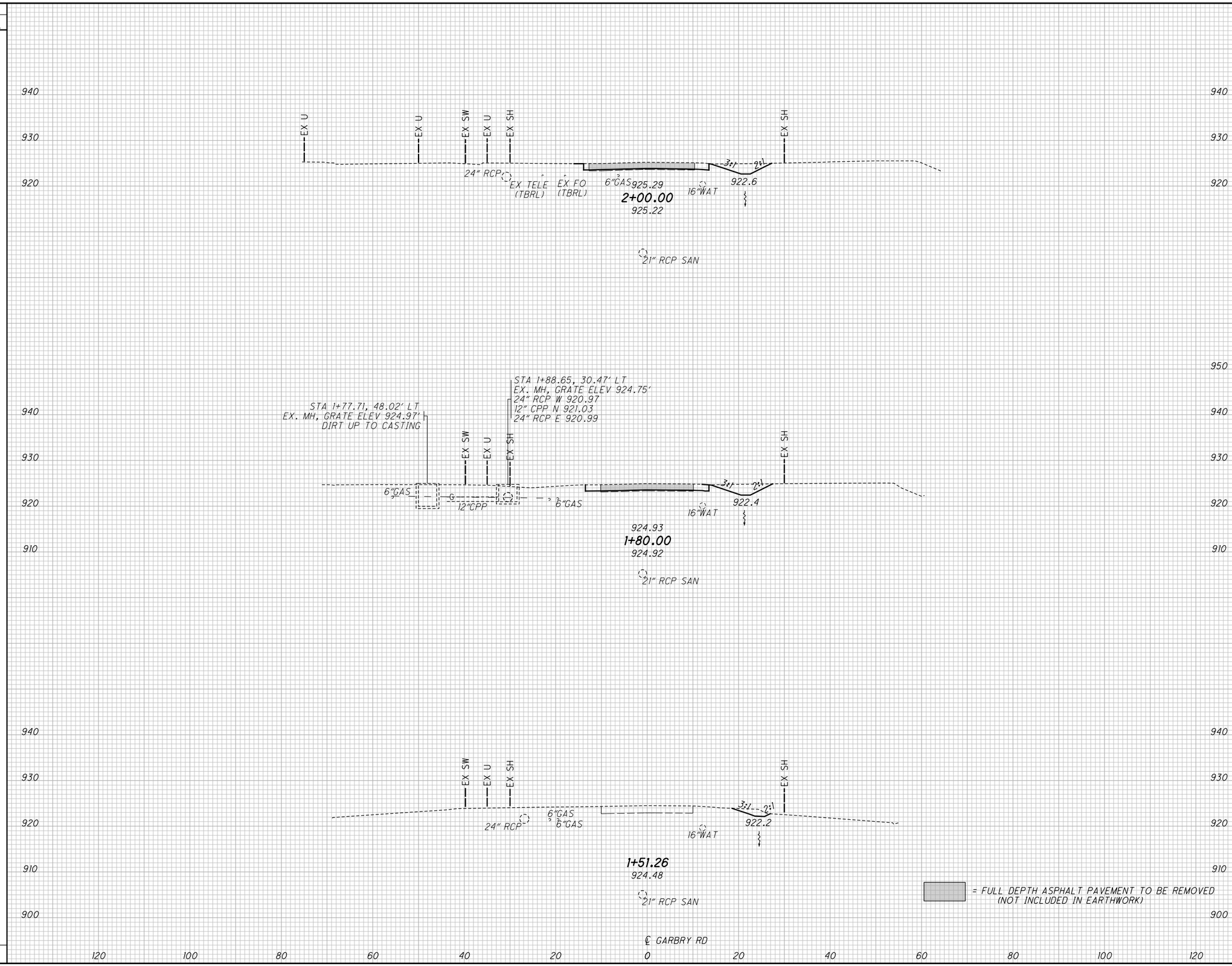
SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
23	5		
		19	4
28	5		
		18	19
7	32		
		0	0
		37	23

CALCULATED RSH
CHECKED AKB

CROSS SECTIONS - GARBRY RD
STA. 1+51.26 TO STA. 2+00.00

MIA-LOONEY/
GARBRY RNDBT

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SEE SEEDING AND MULCHING PLAN

SEEDING	
END WIDTH	SQ. YDS.

SEE SEEDING AND MULCHING PLAN

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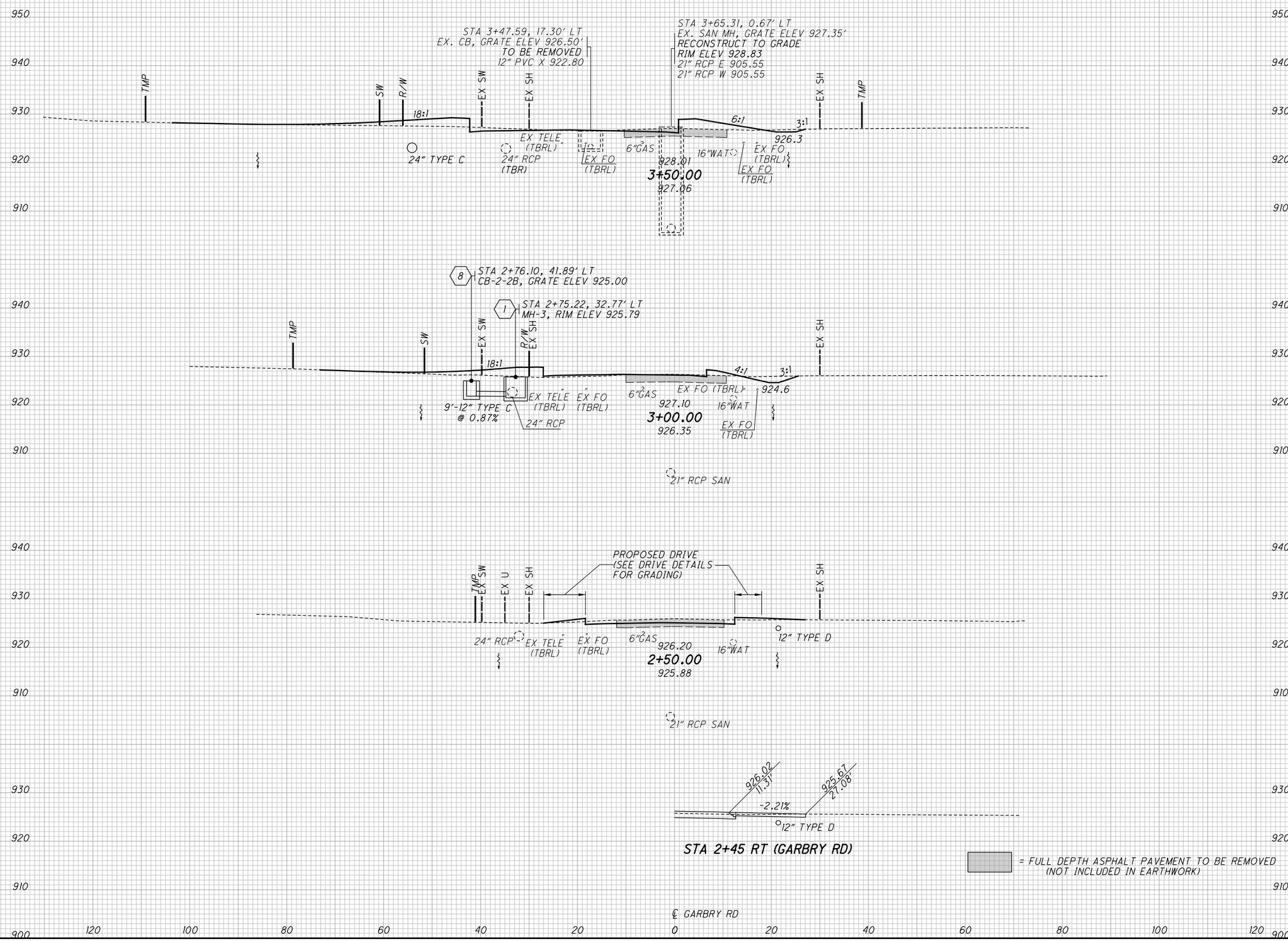
SUSPEND PROPOSED CROSS SECTIONS STA 3+50.00 TO STA 6+00.00 (SEE SHEET 43 FOR GRADING AND SHEET 23 FOR EARTHWORK QUANTITIES)



END AREA		VOLUME	
CUT	FILL	CUT	FILL
11	83		
		18	144
9	72		
		13	90
6	25		
		27	28
		58	262

CALCULATED RSH
CHECKED AKB

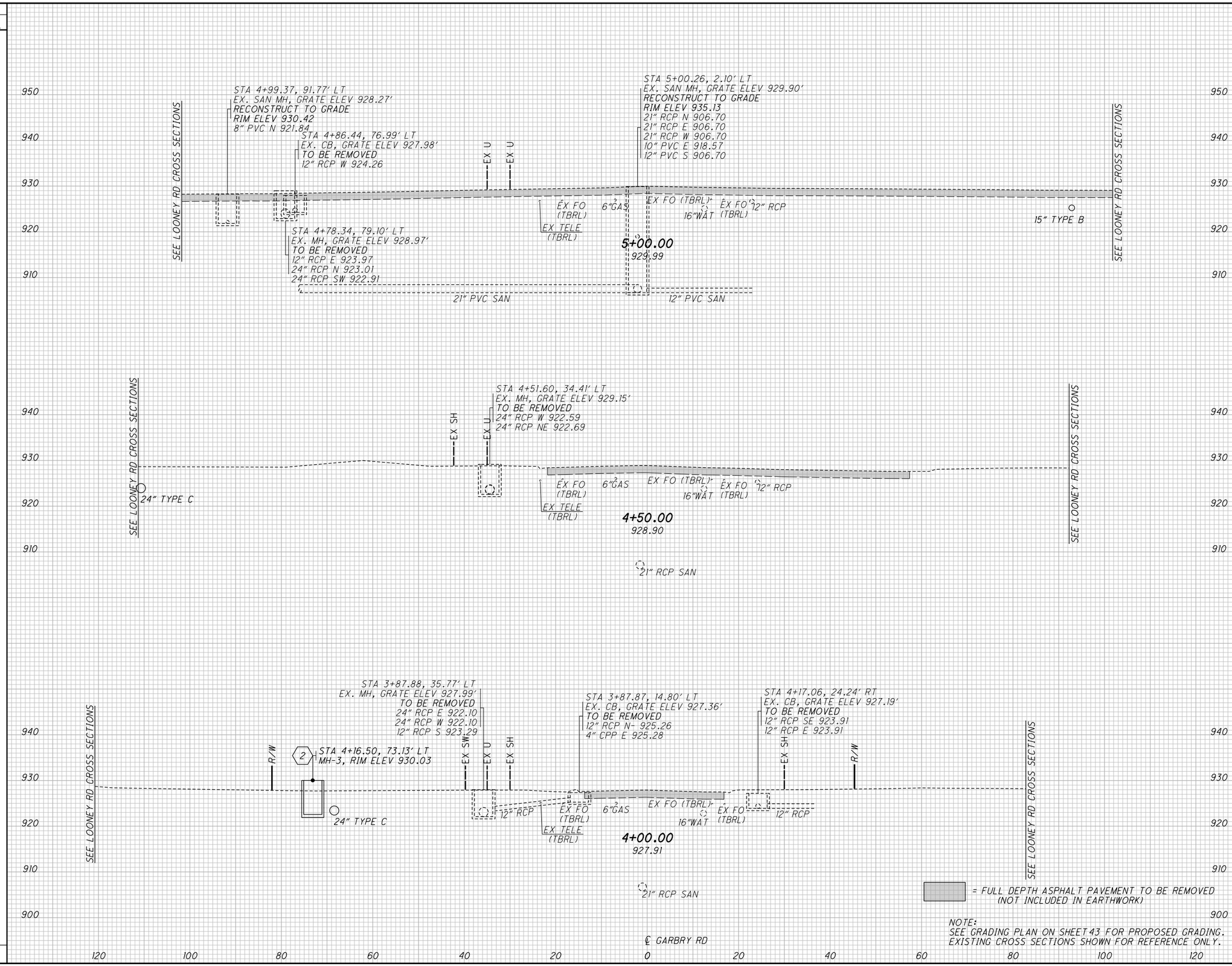
CROSS SECTIONS - GARBRY RD
STA. 2+50.00 TO STA. 3+50.00

MIA-LOONEY/ GARBRY RNDBT

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED RSH
CHECKED AKB



NOTE:
SEE GRADING PLAN ON SHEET 43 FOR PROPOSED GRADING.
EXISTING CROSS SECTIONS SHOWN FOR REFERENCE ONLY.

CROSS SECTIONS - GARBRY RD
STA. 4+00.00 TO STA. 5+00.00

MIA-LOONEY/
GARBRY RNDBT

SEE SEEDING AND MULCHING PLAN

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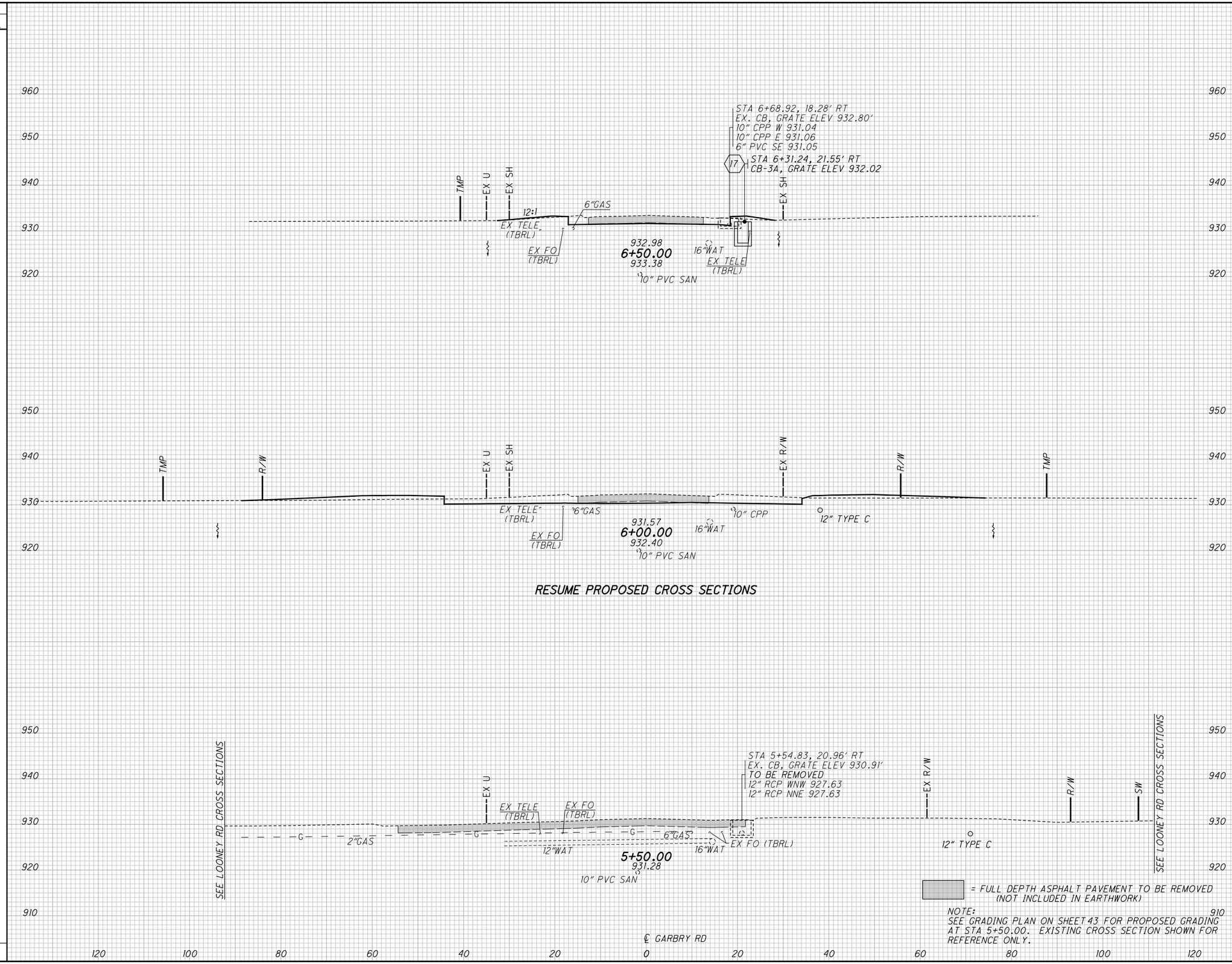
SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
19	6		
		92	48
81	45		
		0	0
		92	48

CALCULATED RSH
CHECKED AKB

CROSS SECTIONS - GARBRY RD
STA. 5+50.00 TO STA. 6+50.00

MIA-LOONEY/ GARBRY RNDBT

SEE SEEDING AND MULCHING PLAN

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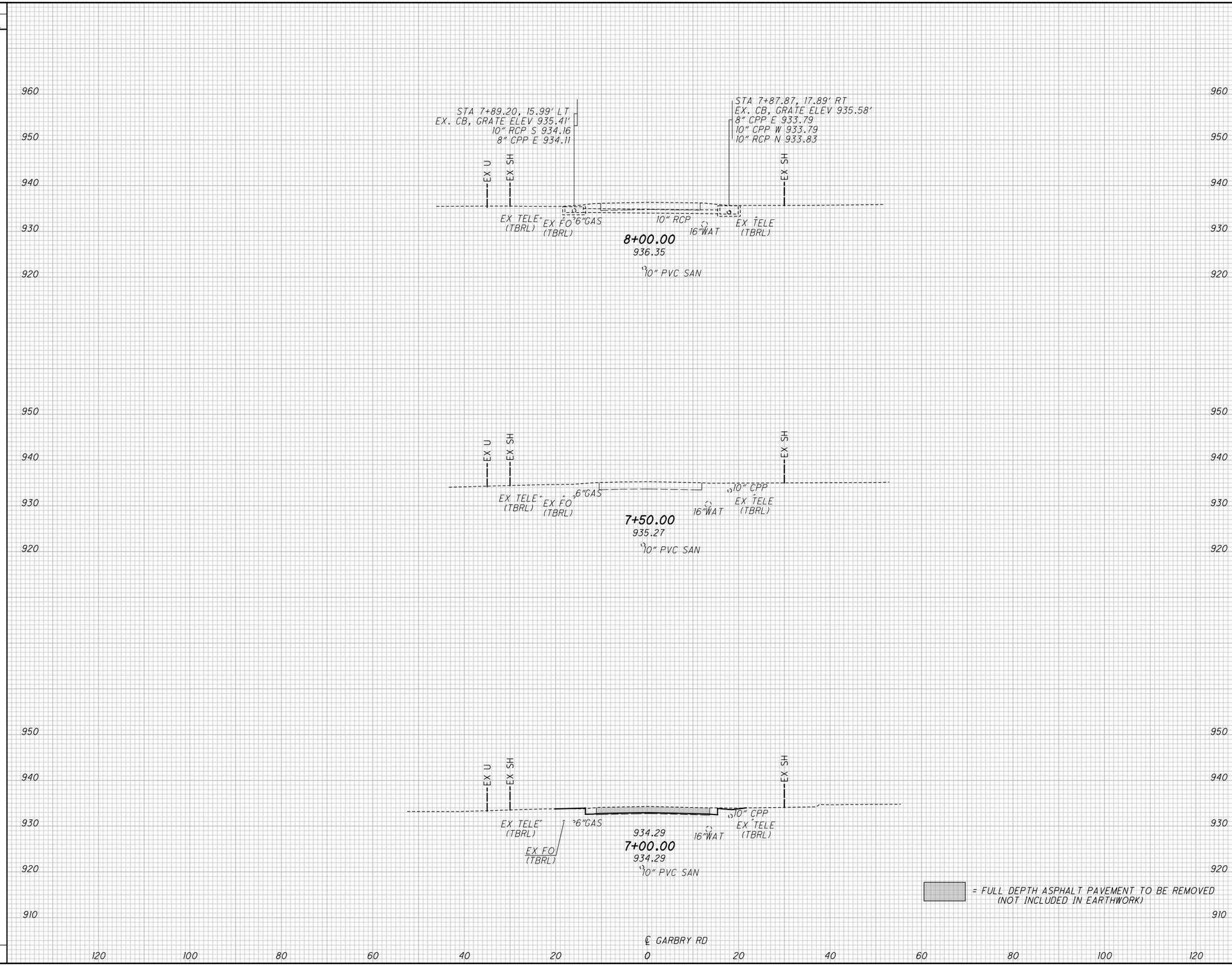
SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
7	6		
		24	12
		24	12

CALCULATED RSH
CHECKED AKB

CROSS SECTIONS - GARBRY RD
STA. 7+00.00 TO STA. 8+00.00

MIA-LOONEY/
GARBRY RNDBT

35
70

SEE SEEDING AND MULCHING PLAN

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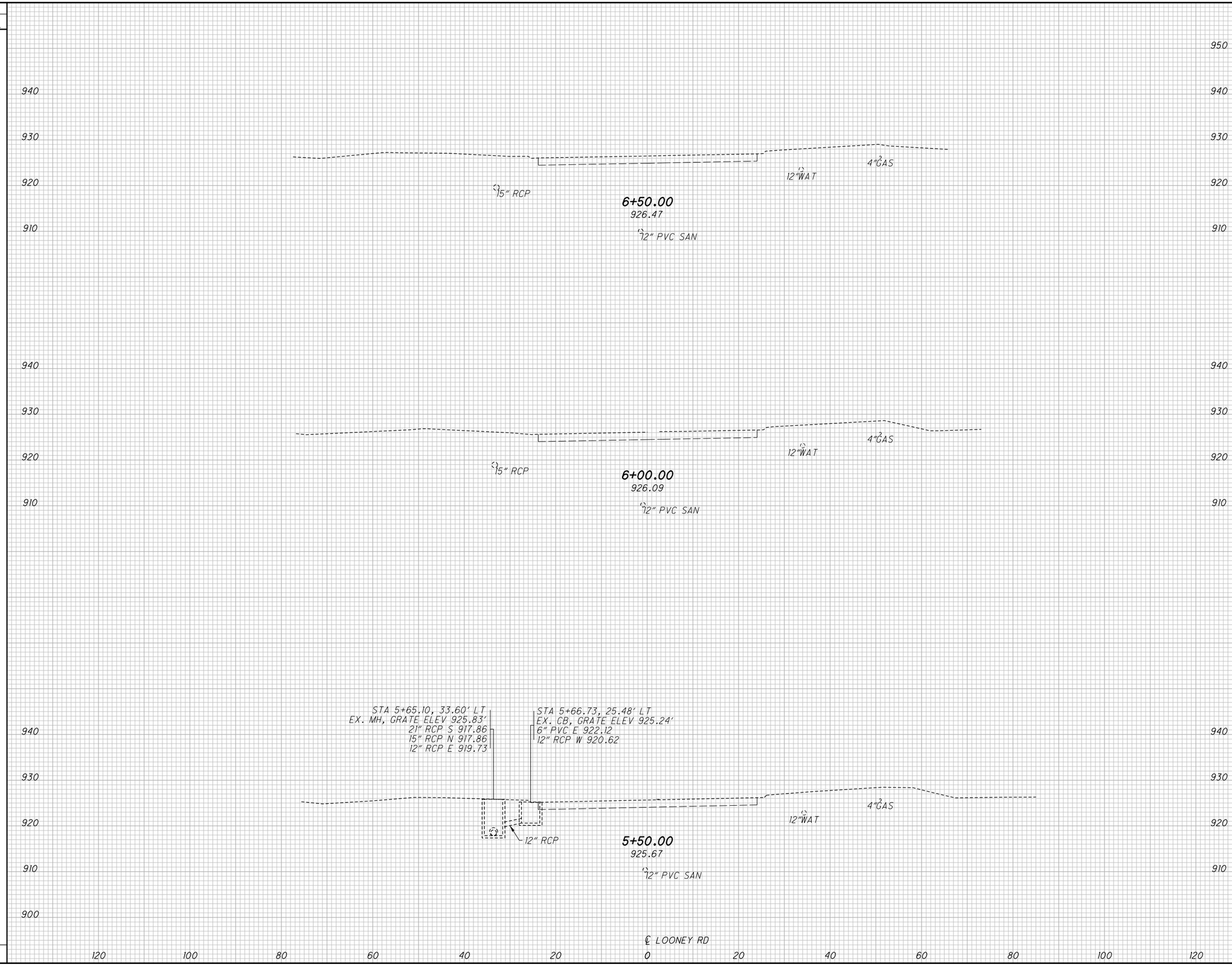
SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	0

CALCULATED RSH
CHECKED AKB

CROSS SECTIONS - LOONEY RD
STA. 5+50.00 TO STA. 6+50.00

MIA-LOONEY/
GARBRY RNDBT

36
70

SEE SEEDING AND MULCHING PLAN

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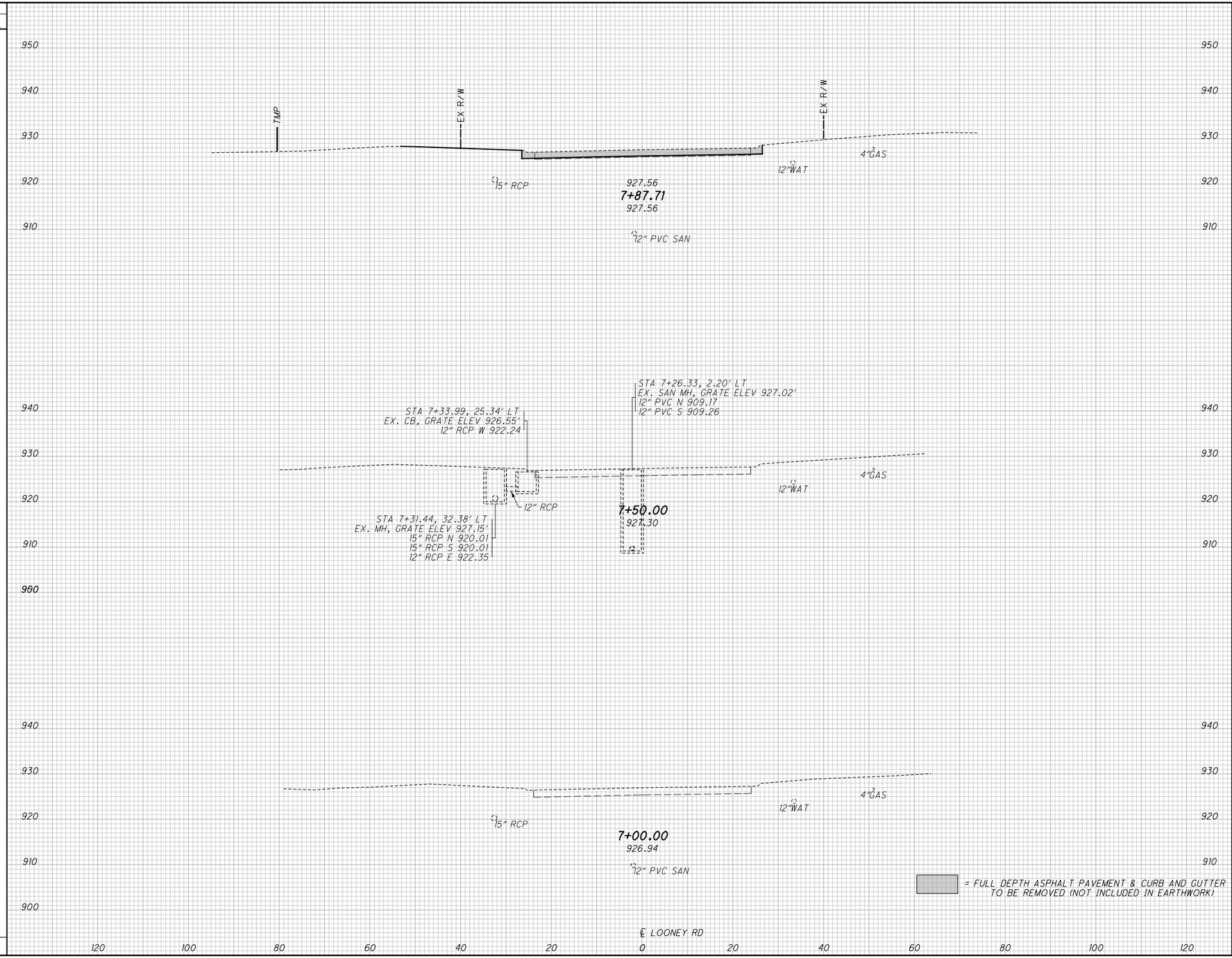
SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	13	0	0
		0	0

CALCULATED RSH
CHECKED AKB

CROSS SECTIONS - LOONEY RD
STA. 7+00.00 TO STA. 7+87.71

MIA-LOONEY/
GARBRY RNDBT

SEE SEEDING AND MULCHING PLAN

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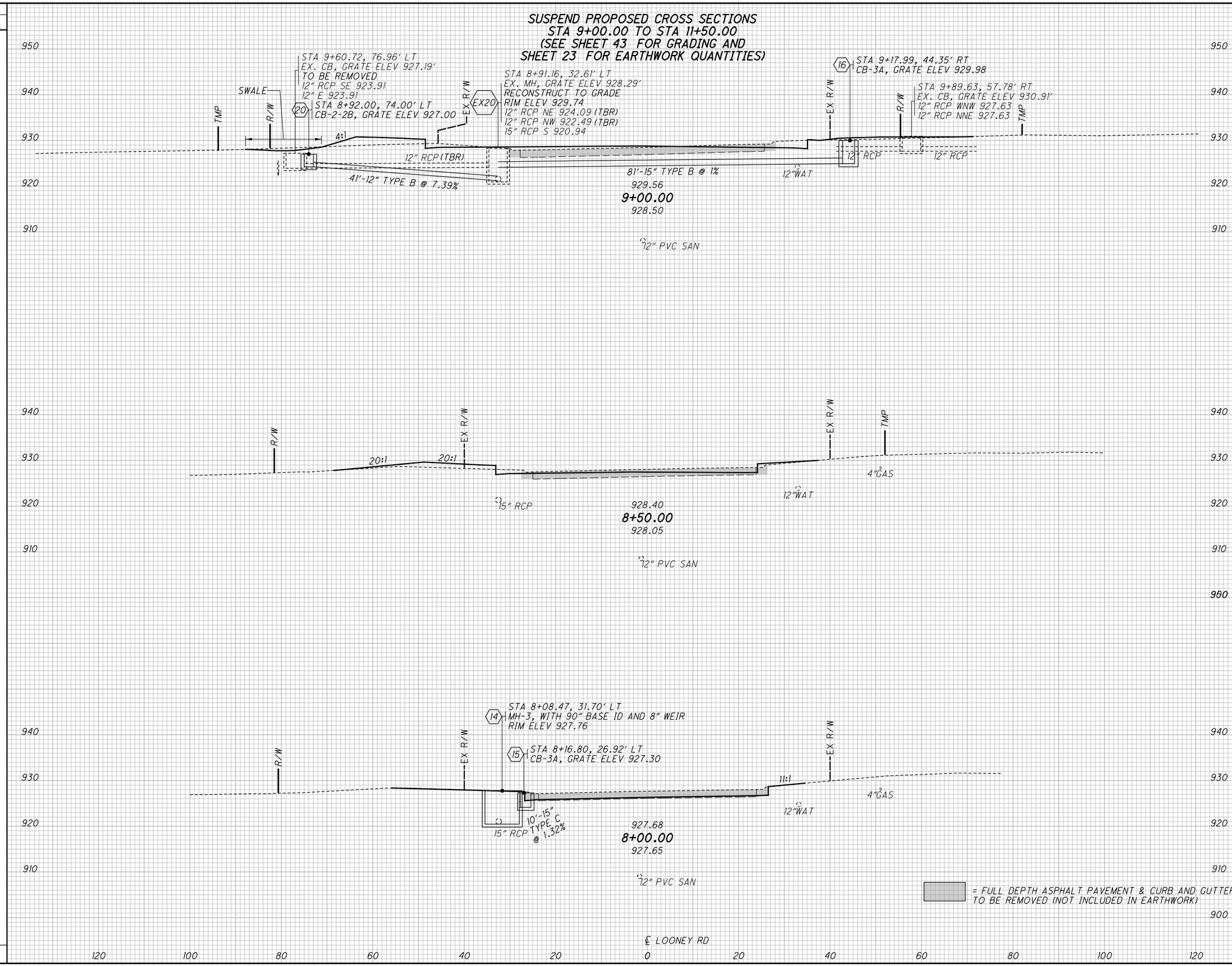
SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
25	138		
		27	200
5	79		
		6	85
2	13		
		0	6
		50	291

CALCULATED RSH
CHECKED AKB

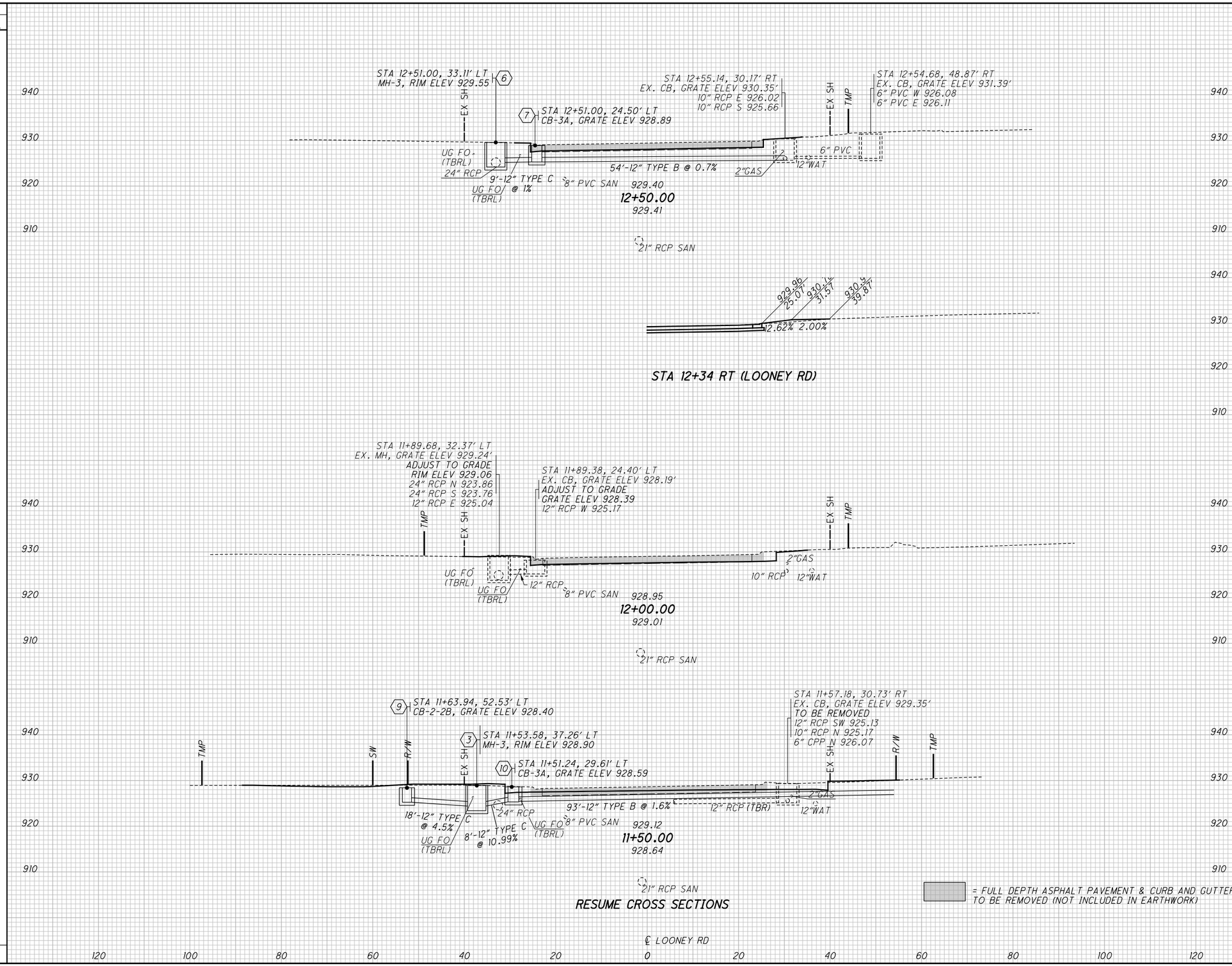
CROSS SECTIONS - LOONEY RD
STA. 8+00.00 TO STA. 9+00.00

MIA-LOONEY/
GARBRY RNDBT

SEE SEEDING AND MULCHING PLAN

J:\20160087\ODOT\MIA\97898\Design\Roadway\Sheets\97898_XS002_Looney.dgn 10/30/2017 5:12:31 PM aburger

SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	1	6	2
6	2	35	10
32	9	0	0
		41	12

CALCULATED RSH
CHECKED AKB

CROSS SECTIONS - LOONEY RD
STA. 11+50.00 TO STA. 12+50.00

MIA-LOONEY/
GARBRY RNDBT

SEE SEEDING AND MULCHING PLAN

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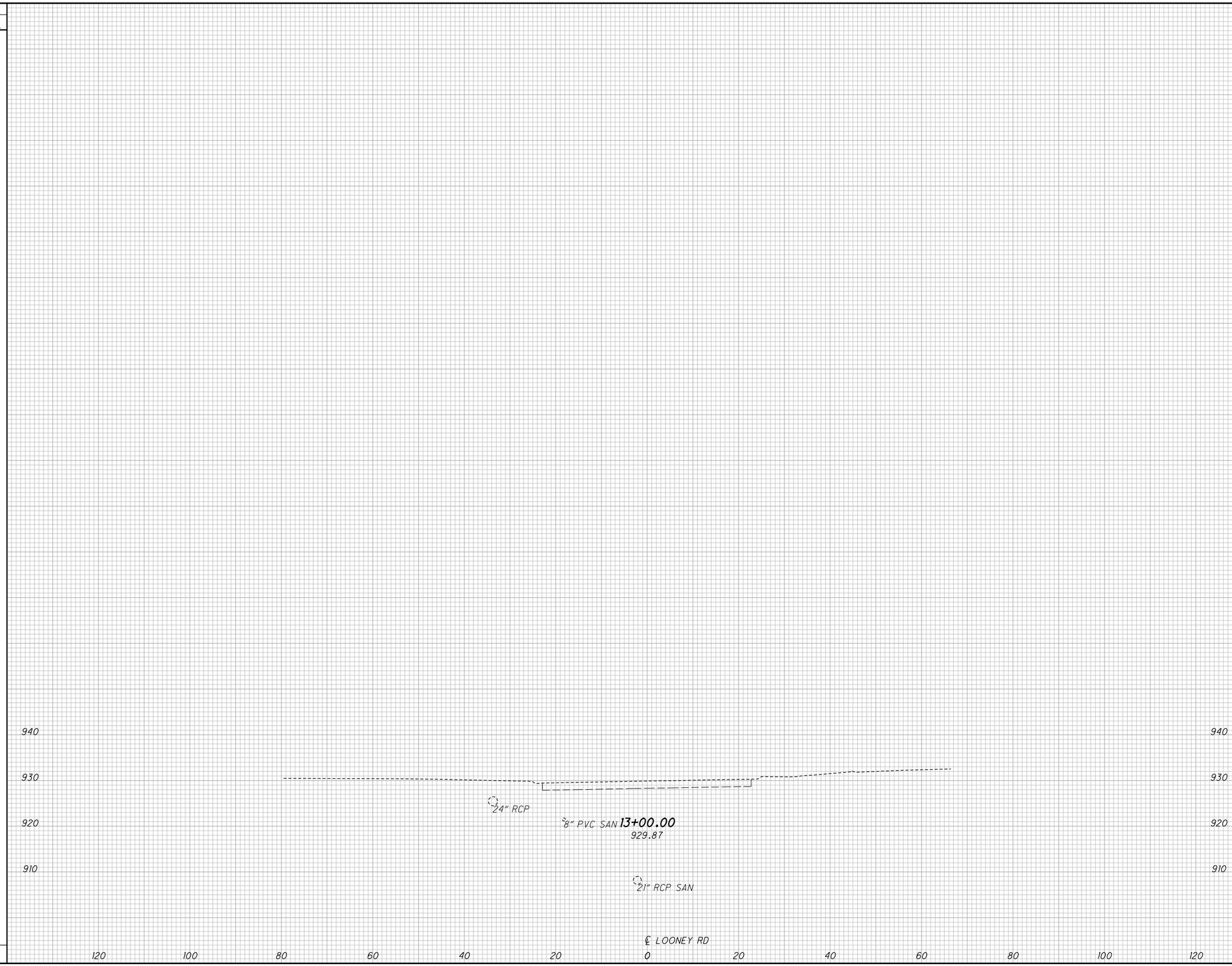
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SEE SEEDING AND MULCHING PLAN

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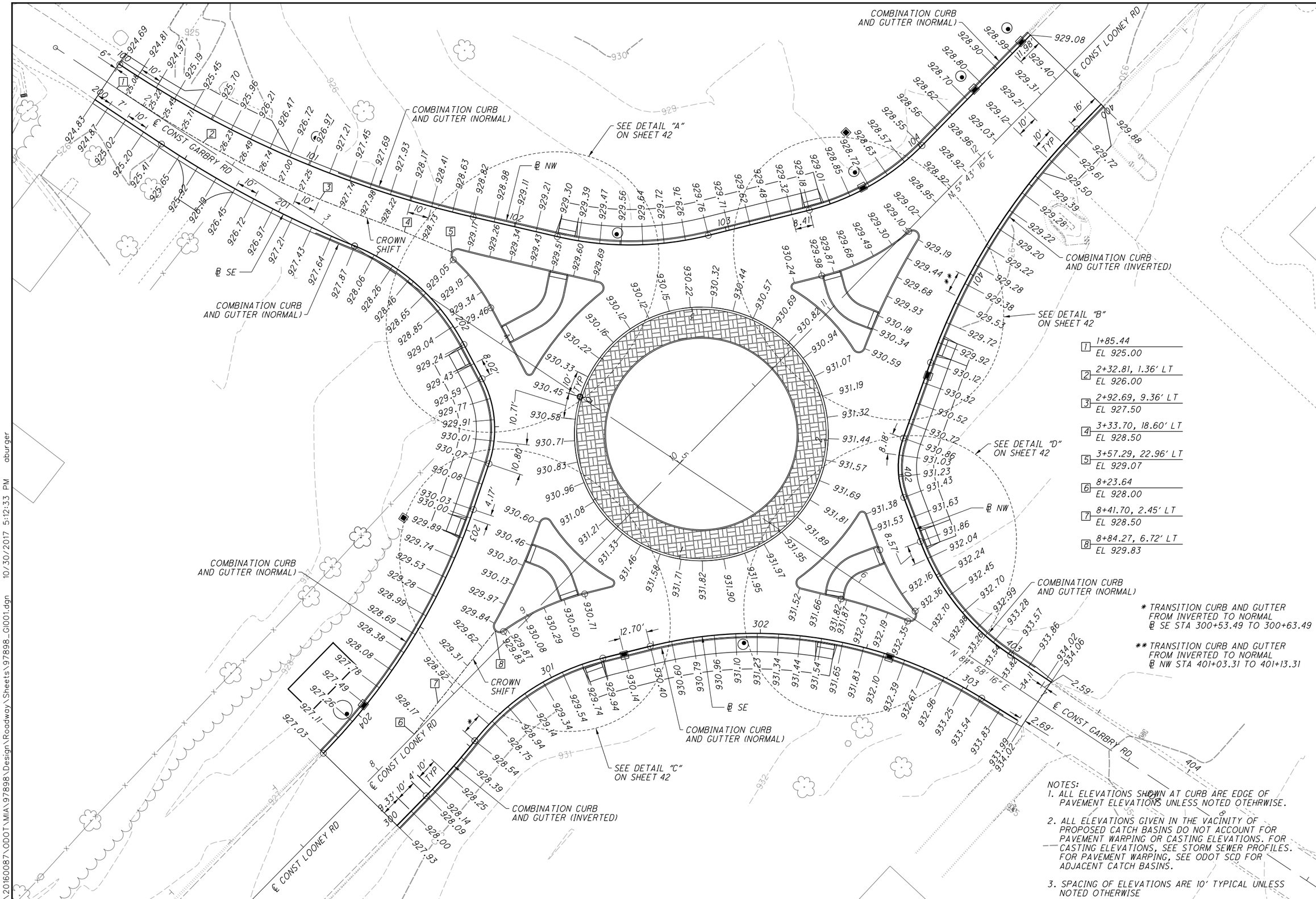
CALCULATED RSH
CHECKED AKB

CROSS SECTIONS - LOONEY RD
STA. 13+00.00

MIA-LOONEY/
GARBRY RNDBT



HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED SEA
CHECKED AKB

PAVEMENT DETAILS

MIA-LOONEY/ GARBRY RNDBT

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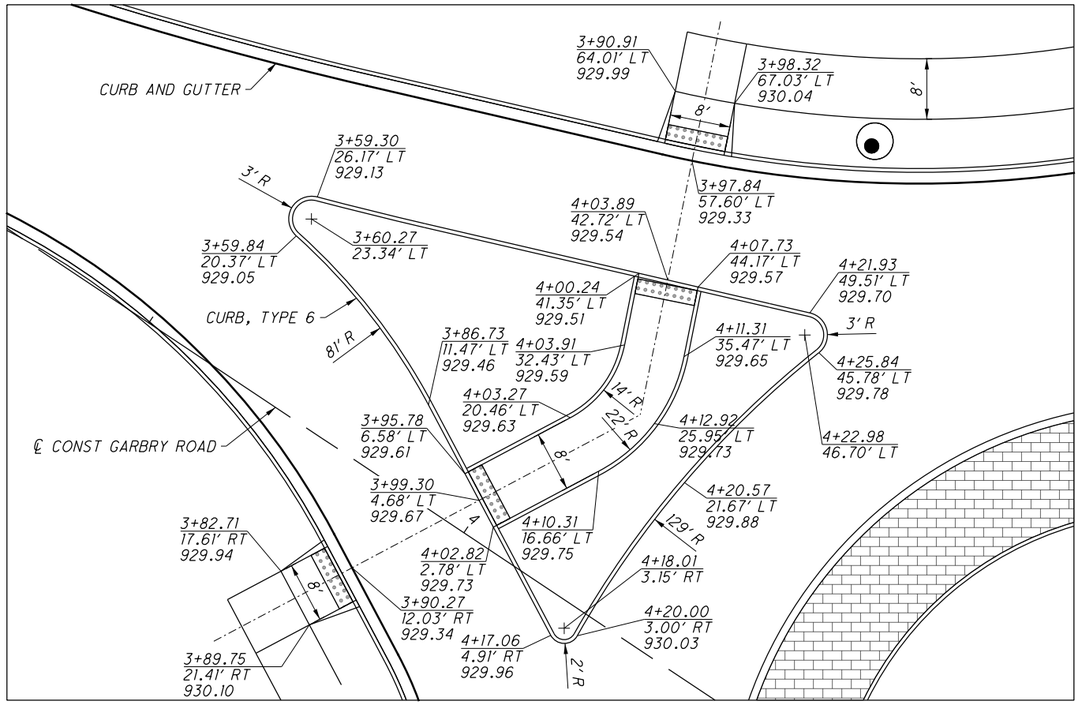
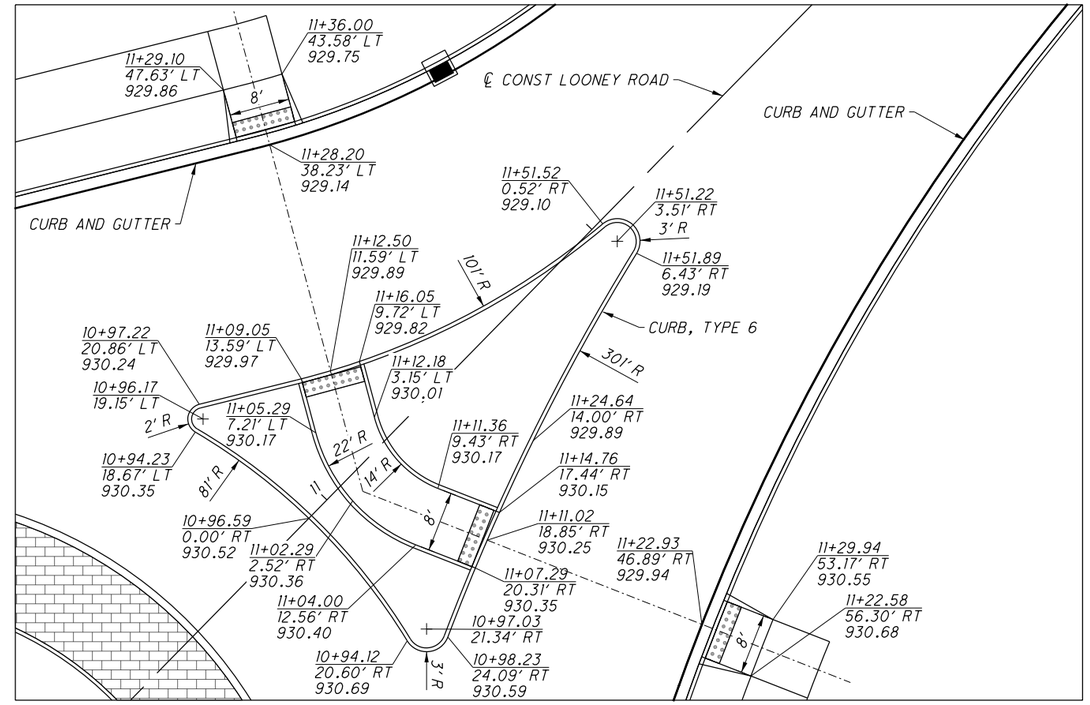
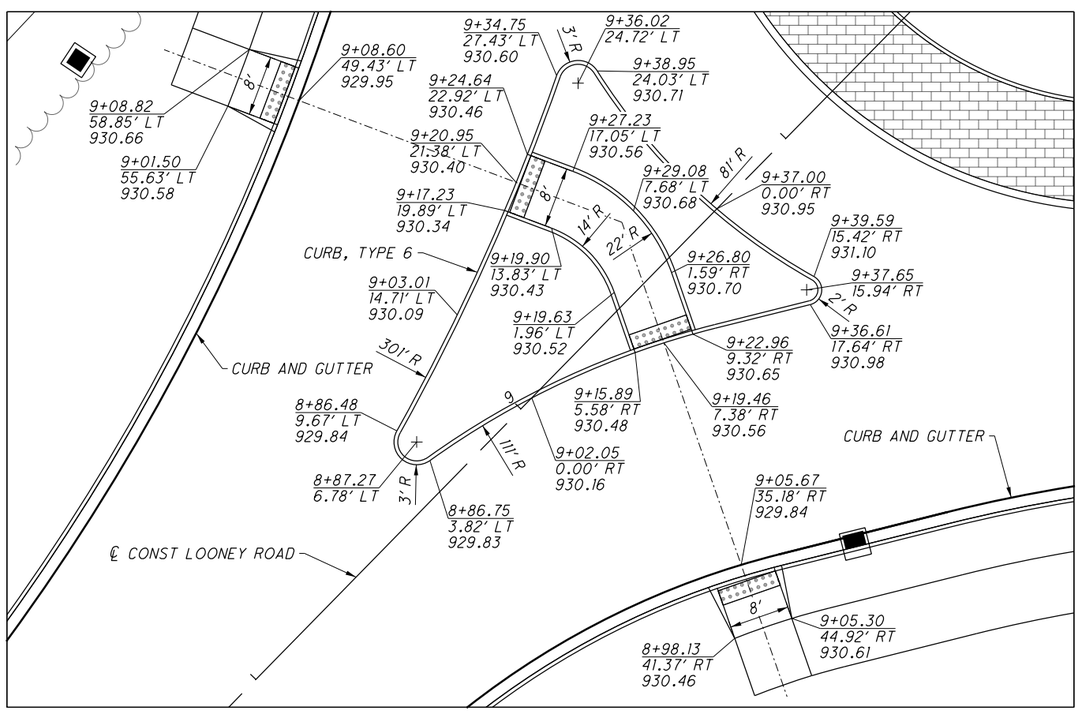


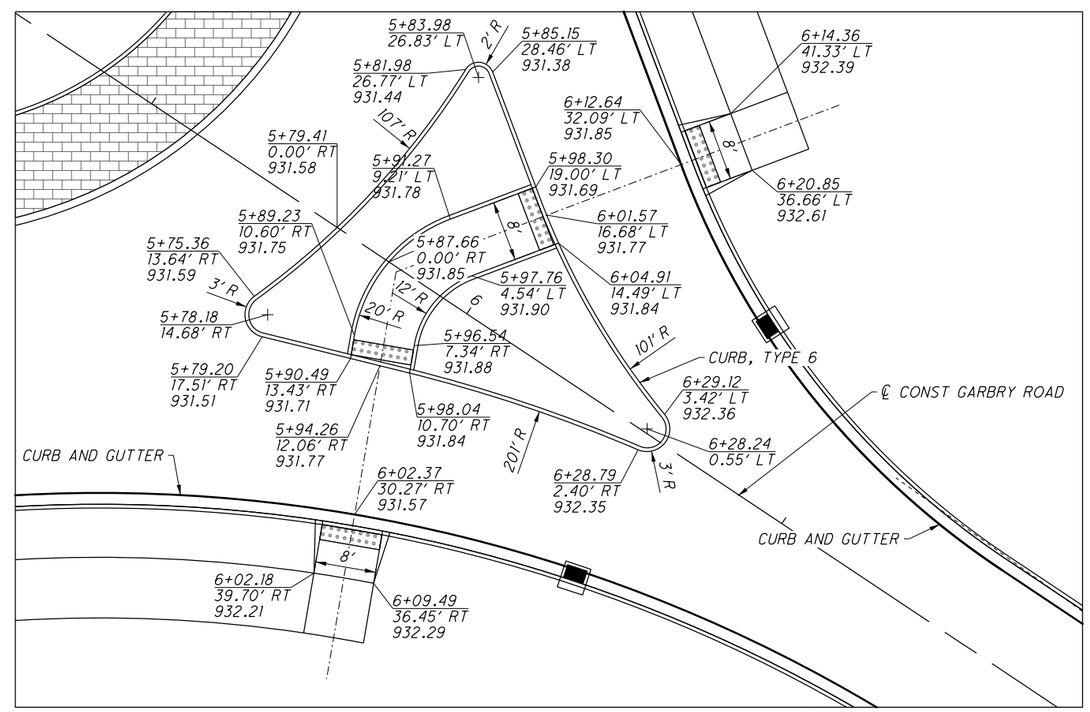
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

NOTES:
1. ALL ELEVATIONS SHOWN AT CURB ARE EDGE OF PAVEMENT ELEVATIONS UNLESS NOTED OTEHRWISE.

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED AKB
CHECKED NS

PAVEMENT DETAILS

MIA-LOONEY/ GARBRY RNDBT

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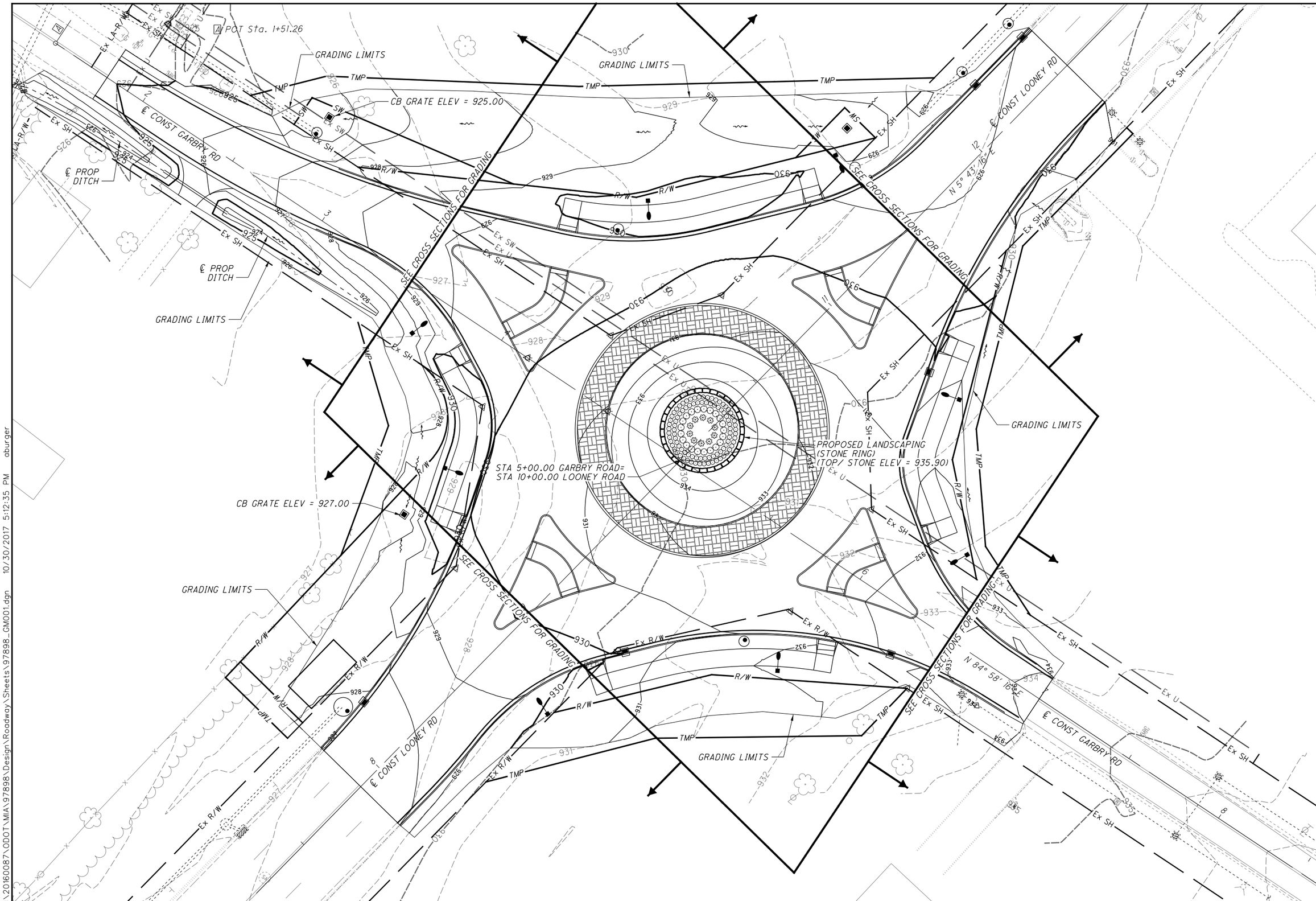

HORIZONTAL SCALE IN FEET
0 10 20 10

CALCULATED AKB
CHECKED NS

GRADING PLAN

MIA-LOONEY/ GARBRY RNDBT

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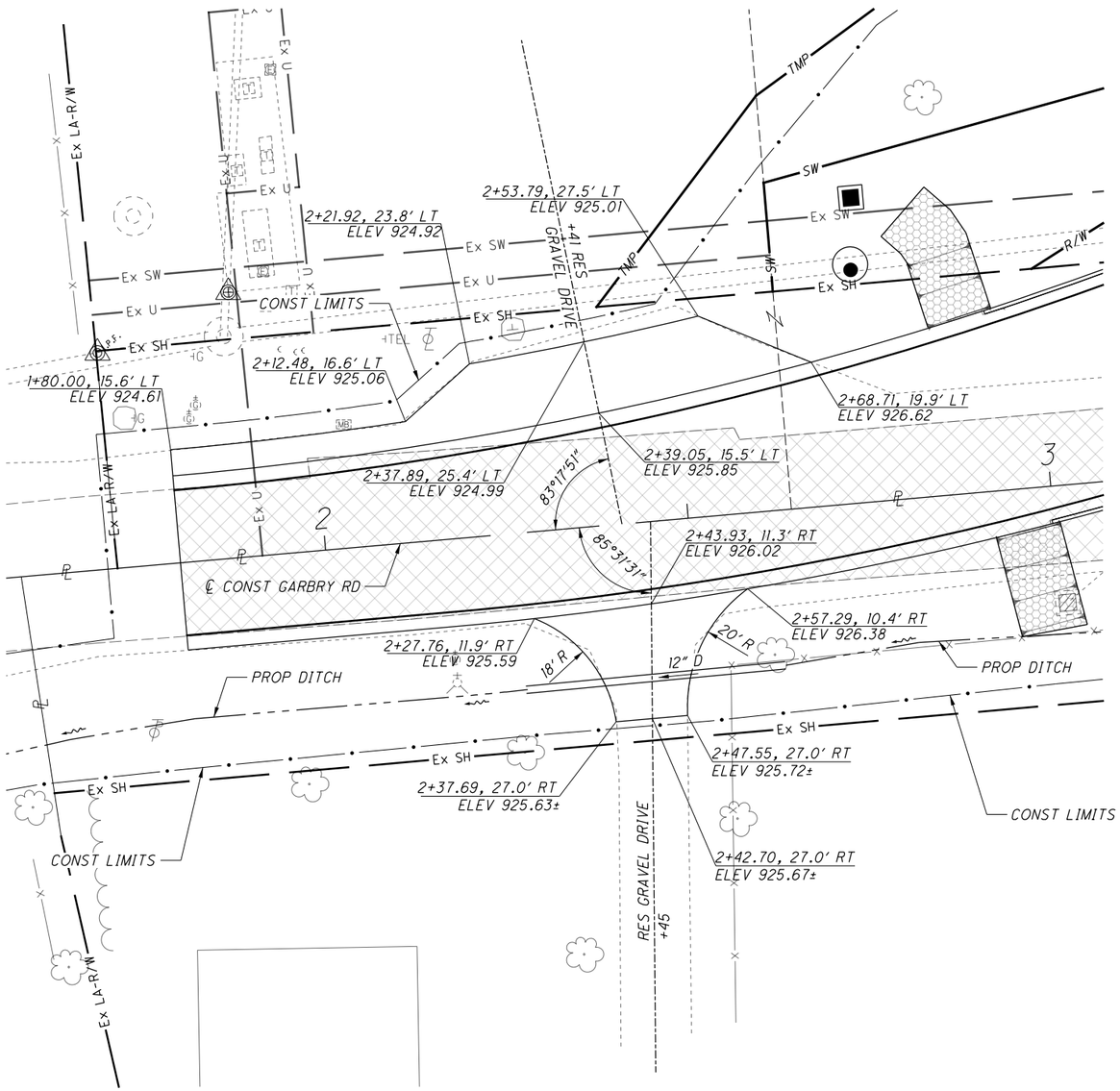

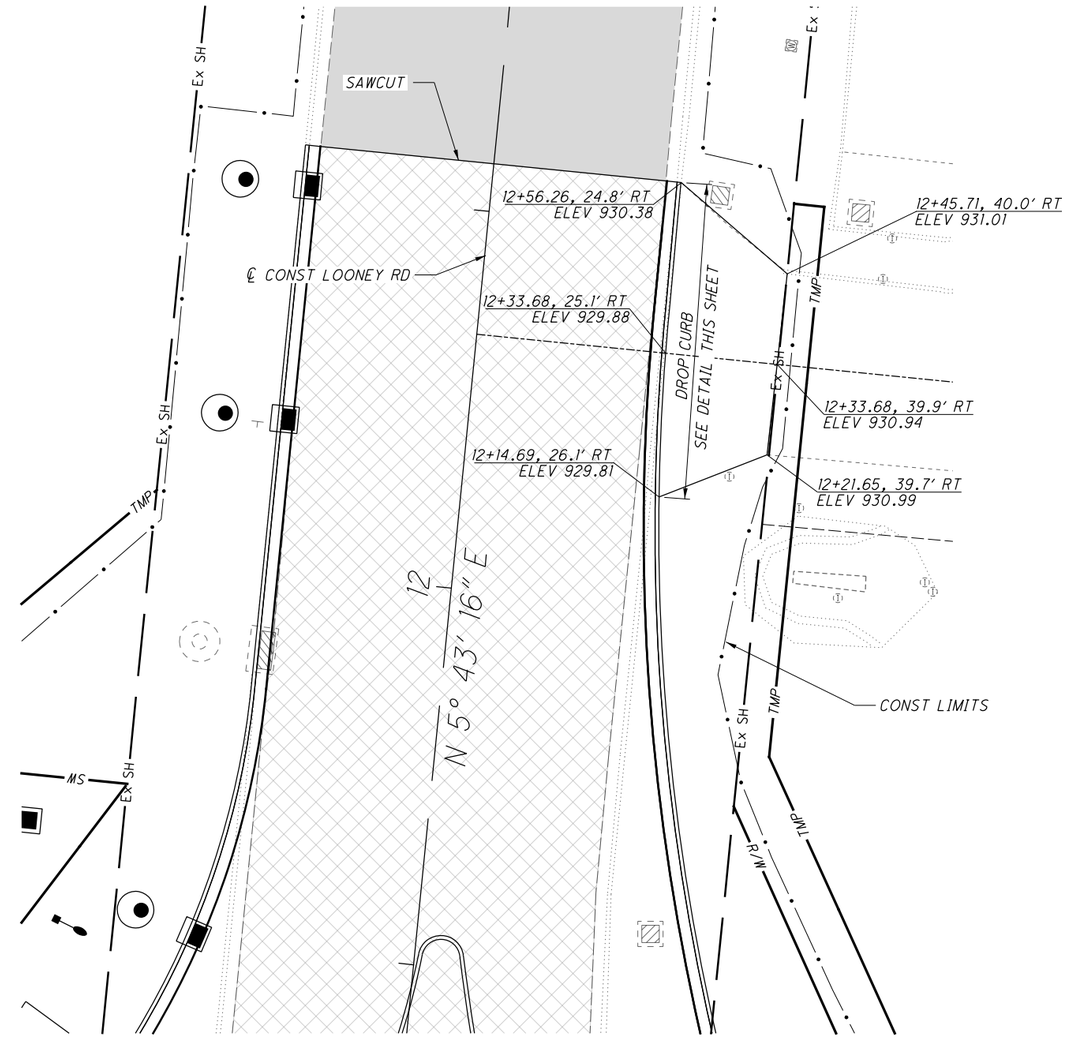

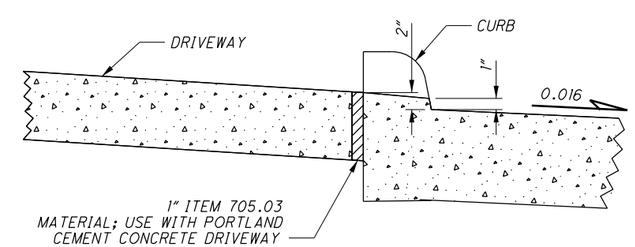

DROP CURB DETAILS AT DRIVEWAYS

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED RSH
CHECKED AKB

DRIVEWAY DETAILS

MIA-LOONEY/
GARBRY RNDBT

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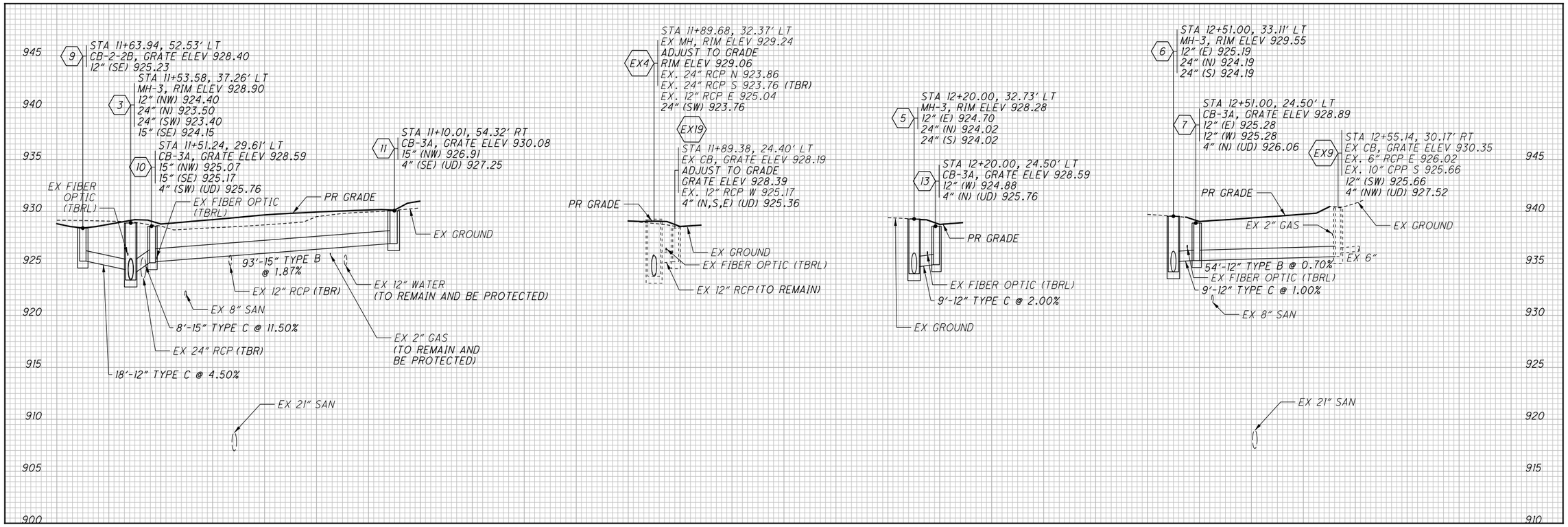

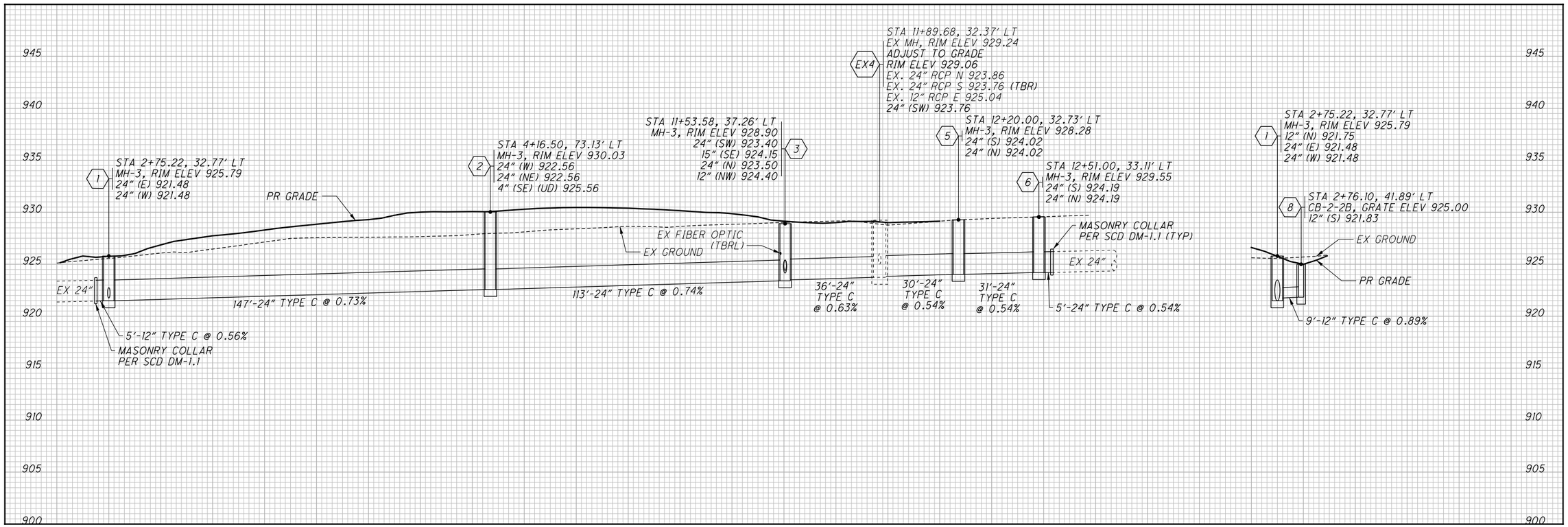

CALCULATED RSH
CHECKED AKB

STORM SEWER PROFILES

MIA-LOONEY/
GARBRY RNDBT

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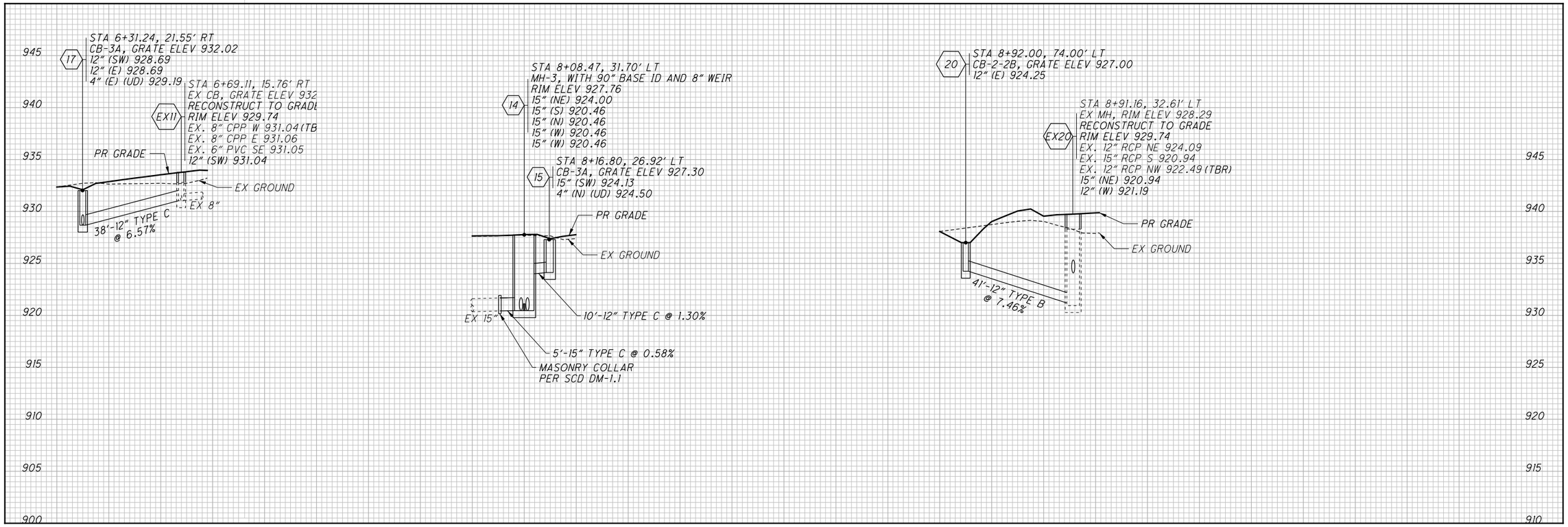

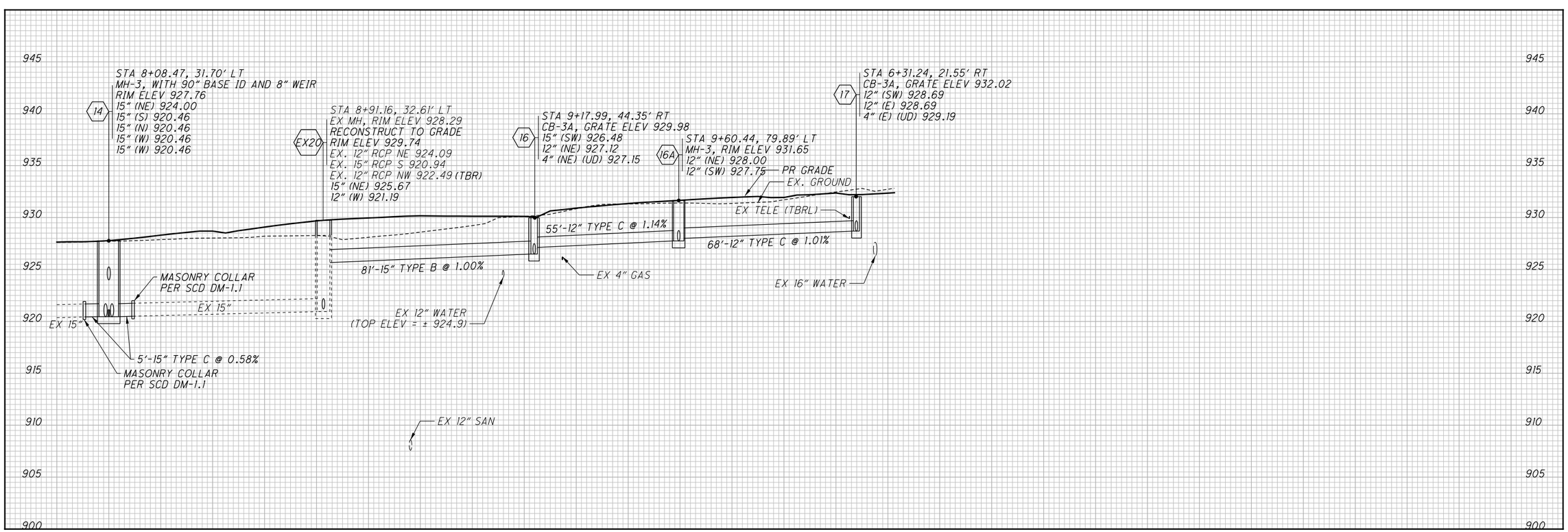

CALCULATED RSH
CHECKED AKB

STORM SEWER PROFILES

MIA-LOONEY/
GARBRY RNDBT

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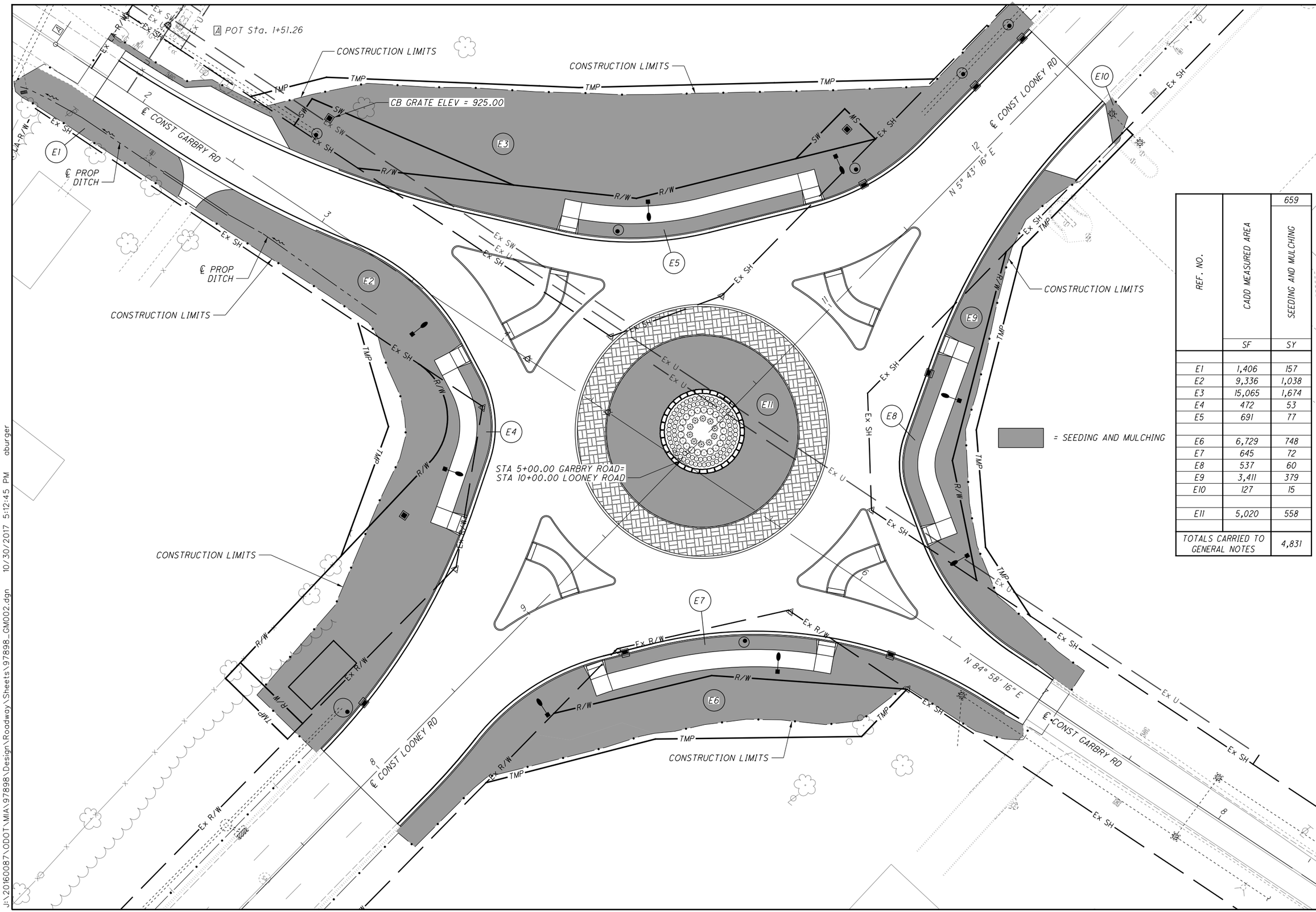

REF. NO.	CADD MEASURED AREA	SEEDING AND MULCHING
		659
	SF	SY
E1	1,406	157
E2	9,336	1,038
E3	15,065	1,674
E4	472	53
E5	691	77
E6	6,729	748
E7	645	72
E8	537	60
E9	3,411	379
E10	127	15
E11	5,020	558
TOTALS CARRIED TO GENERAL NOTES		4,831

HORIZONTAL SCALE IN FEET 0 10 20

CALCULATED RSH
CHECKED AKB

SEEDING AND MULCHING PLAN

MIA-LOONEY/
GARBRY RNDBT

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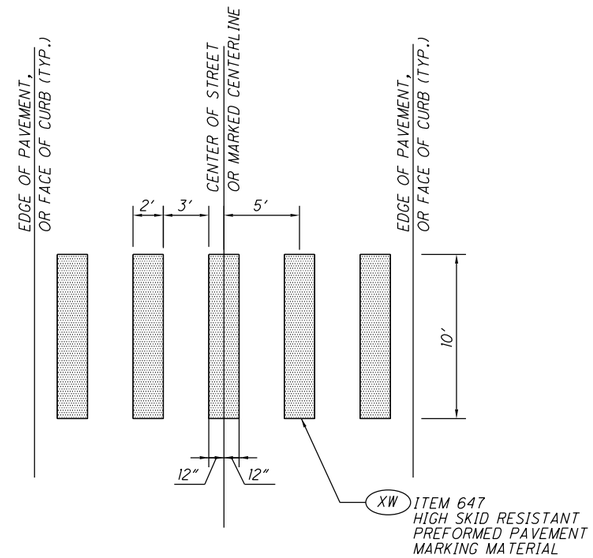
GENERAL
THESE SPECIFICATIONS, TOGETHER WITH THE ACCOMPANYING PLANS, ARE INTENDED TO DESCRIBE THE TYPE, SIZE, AND LOCATION OF THE PRODUCTS AND MATERIALS TO BE PROVIDED AND INSTALLED UNDER VARIOUS BID ITEMS RELATED TO TRAFFIC CONTROL. THE CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC CONTROL DEVICES AND RELATED MATERIALS IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS, AS WELL AS THE 2016 OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD CONSTRUCTION DRAWINGS ISSUED BY THE OHIO DEPARTMENT OF TRANSPORTATION. THESE SPECIFICATIONS SET FORTH THE MINIMUM PERFORMANCE AND OPERATING REQUIREMENTS OF THE TRAFFIC CONTROL ITEMS REFERRED TO HEREIN.

PAVEMENT MARKING LEGEND	
XX	PROPOSED PAVEMENT MARKINGS, ITEM 644
XX	EXISTING PAVEMENT MARKINGS (TO REMAIN)

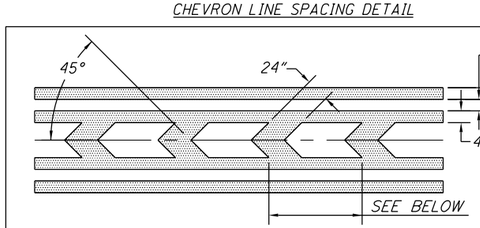
SIGN LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO BE REMOVED
	EXISTING SIGN TO REMAIN



CROSSWALK DETAIL

LINE SPECIFICATIONS	
ITEM 644	
WE	EDGE LINE, 4" (WHITE)
YE	EDGE LINE, 4" (YELLOW)
LL	LANE LINE, 4" (WHITE)
DY	CENTER LINE, 4" DOUBLE YELLOW
CH	CHANNELIZING LINE, 8" (WHITE)
CM	CHEVRON MARKING, 24" (WHITE)
LA	LANE ARROW
YL	YIELD LINE - SEE DETAIL
DL	DOTTED LINE - SEE DETAIL
ITEM 644	
XW	CROSSWALK LINE - SEE DETAIL

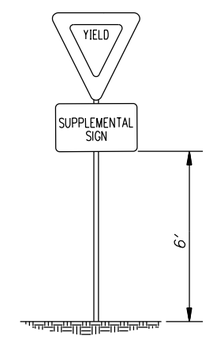
CHEVRON LINE SPACING DETAIL



NOTE:
ODOT CHEVRON LINE SPACING:
0' - 48' LENGTH = 12' c/c
48' - 96' LENGTH = 24' c/c
GREATER THAN 96' = 48' c/c

PAVEMENT MARKING DETAILS		
YL	YIELD LINE, WHITE YE, 2', 1', FACE OF CURB, 3', *	ITEM 644
DL	DOTTED LINE, 12" WHITE 3', 3', 12" (Typ.)	ITEM 644

* THE SPACING BETWEEN THE EDGE OF THE YIELD ARROW AND THE EDGE OF PAVEMENT OR EDGE LINE SHALL BE EQUAL ON BOTH SIDES.



SIGN W/SECONDARY SIGN PLACEMENT

CALCULATED MSJ
CHECKED SMM

TRAFFIC CONTROL LEGEND

MIA-LOONEY/ GARBRY RNDBT

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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 EDGE LINE, 4"	644 LANE LINE, 4"	644 CENTER LINE (DOUBLE SOLID)	644 CHANNELIZING LINE, 8"	644 CHEVRON MARKING	647 CROSSWALK LINE, TYPE B90
			FROM	TO		FT	FT	FT	FT	FT	FT
52	YE-1	GARBRY RD	3+60	4+22	LT/RT	62					
52	YE-2	GARBRY RD	3+59	4+33	LT	74					
52	YE-3	LOONEY ROAD	10+91	11+52	LT	61					
52	YE-4	LOONEY RD	10+88	11+52	RT	64					
52	YE-5	GARBRY RD	5+81	6+30	LT	49					
52	YE-6	GARBRY RD	5+68	6+29	RT	61					
52	YE-7	LOONEY RD	8+87	9+43	LT/RT	56					
52	YE-8	LOONEY RD	8+86	9+45	LT	59					
52	YE-9	LOONEY RD	4+43	5+58	LT/RT	377					
52	WE-1	LOONEY RD	4+22	4+33	LT/RT	65					
52	WE-2	GARBRY RD	10+91	10+88	LT/RT	57					
52	WE-3	LOONEY RD	5+68	5+81	LT/RT	58					
52	WE-4	GARBRY RD	9+43	9+45	LT/RT	58					
52 - 53	LL-1	LOONEY RD	12+56	14+06	LT		150				
52 - 53	LL-2	LOONEY RD	11+85	14+06	RT		221				
52 - 53	LL-3	LOONEY RD	5+83	7+88	RT		205				
52 - 53	LL-4	LOONEY RD	5+83	8+06	LT		223				
52	DY-1	GARBRY RD	1+80	3+60	LT			180			
52	DY-2	GARBRY RD	3+27	3+59	LT			32			
52	DY-3	LOONEY RD	11+52	14+06	℄			254			
52	DY-4	LOONEY RD	11+52	12+12	RT			60			
52	DY-5	GARBRY RD	6+30	7+00	LT			70			
52	DY-6	GARBRY RD	6+29	6+59	RT			30			
52	DY-7	LOONEY RD	5+83	8+87	LT			304			
52	DY-8	LOONEY RD	8+51	8+86	LT			35			
52	CH-1	LOONEY RD	10+81	11+18	LT				37		
52	CH-2	LOONEY RD	11+27	11+81	LT				54		
52	CH-3	LOONEY RD	10+85	11+15	LT				30		
52	CH-4	LOONEY RD	11+23	12+56	LT				133		
52	CH-5	LOONEY RD	11+22	11+85	RT				63		
52	CH-6	LOONEY RD	10+83	11+13	RT				30		
52	CH-7	LOONEY RD	9+16	9+53	RT				37		
52	CH-8	LOONEY RD	8+43	9+07	RT				64		
52	CH-9	LOONEY RD	9+18	9+49	RT				31		
52	CH-10	LOONEY RD	7+88	9+09	RT				121		
52	CH-11	LOONEY RD	8+60	9+10	LT				50		
52	CH-12	LOONEY RD	9+20	9+47	LT				27		
52	XW-1	GARBRY RD	3+86	4+04	LT/RT						40
52	XW-2	GARBRY RD	10+23	10+40	LT						30
52	XW-3	LOONEY RD	11+09	11+33	LT						60
52	XW-4	LOONEY RD	11+07	11+28	RT						60
52	XW-5	GARBRY RD	5+98	6+17	LT						40
52	XW-6	GARBRY RD	5+90	6+07	RT						40
52	XW-7	LOONEY RD	9+01	9+23	RT						60
52	XW-8	LOONEY RD	9+04	9+26	LT						60
52	CM-1	LOONEY RD	10+81	11+18	LT					32	
52	CM-2	LOONEY RD	11+23	11+81	LT					16	
52	CM-3	LOONEY RD	9+16	9+53	RT					32	
52	CM-4	LOONEY RD	8+43	9+09	RT					19	
					SUBTOTALS	1101 FT	799 FT	965 FT			
TOTALS CARRIED TO GENERAL SUMMARY						0.21 MILE	0.15 MILE	0.18 MILE	677	99	390

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 LANE ARROW	644 DOTTED LINE, 12"	644 YIELD LINE
			FROM	TO		EACH	FT	FT
52	LA-1	LOONEY RD	10+05		LT	1		
52	LA-2	LOONEY RD	11+33		LT	1		
52	LA-3	LOONEY RD	11+34		LT	1		
52	LA-4	LOONEY RD	12+42		LT	1		
52	LA-5	LOONEY RD	12+40		LT	1		
52	LA-6	GARBRY RD	5+12		LT	1		
52	LA-7	GARBRY RD	10+25		RT	1		
52	LA-8	GARBRY RD	4+90		RT	1		
52	LA-9	GARBRY RD	9+00		RT	1		
52	LA-10	LOONEY RD	9+07		RT	1		
52	LA-11	LOONEY RD	8+03		RT	1		
52	LA-12	LOONEY RD	8+05		RT	1		
52	YL-1	LOONEY RD	9+42	4+22	LT/RT		37	
52	YL-2	GARBRY RD	4+30	10+91	LT		66	
52	YL-3	LOONEY RD	10+90	5+81	LT/RT		44	
52	YL-4	GARBRY RD	5+72	9+43	RT		69	
52	YA-1	GARBRY RD	4+22		RT			20
52	YA-2	LOONEY RD	10+81		LT			12
52	YA-3	LOONEY RD	10+91		LT			12
52	YA-4	GARBRY RD	5+81		LT			18
52	YA-5	LOONEY RD	9+53		RT			13
52	YA-6	LOONEY RD	9+43		RT			12
TOTALS CARRIED TO GENERAL SUMMARY						12	216	87

CALCULATED MSJ
CHECKED SMM

PAVEMENT MARKING SUBSUMMARY

MIA-LOONEY/
GARBRY RNDBT

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 GROUND MOUNTED SUPPORT, NO. 4 POST, TYPE S	630 STREET NAME SIGN SUPPORT, NO. 2 POST	630 SIGN POST REFLECTOR (RED)	630 SIGN, FLAT SHEET	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
							FT	FT	FT	EACH	SF	EACH	EACH
54	R-1	GARBRY RD	4+06	RT								2	1
54	R-2	LOONEY RD	10+57	LT								2	1
54	R-3	LOONEY RD	12+19	LT								1	1
54	R-4	LOONEY RD	11+37	RT								1	1
54	R-5	GARBRY RD	5+67	LT								2	1
54	R-6	GARBRY RD	6+01	LT								2	1
54	R-7	LOONEY RD	9+44	RT								2	1
56	R-8	LOONEY RD	14+64	LT								1	1
55	S-1	LOONEY RD	8+88	LT	R4-7-24	24 x 30	13				5		
55	S-2	LOONEY RD	9+34	LT	SPECIAL	66 x 16			9-9		7.33		
55	S-3	GARBRY RD	4+09	RT	R1-2-36	36 x 36		14		1	9		
					SPECIAL	24 x 18					3		
55	S-4	GARBRY RD	4+17	RT	R1-2-36	36 x 36		14		1	9		
55	S-5	GARBRY RD	3+81	RT	W11-2-30	30 x 30	14				6.25		
					W16-7PL-24	24 x 12					2		
55	S-6	GARBRY RD	2+81	RT	W3-2-30	30 x 30	14				6.25		
55	S-7	GARBRY RD	1+81	RT	W2-6-30	30 x 30		14			6.25		
					W13-1P-18	18 x 18					2.25		
55	S-8	GARBRY RD	3+60	LT	R4-7-24	24 x 30	13				5		
55	S-9	GARBRY RD	4+03	LT	W11-2-30	30 x 30	14				6.25		
					W16-7PL-24	24 x 12					2		
55	S-10	GARBRY RD	4+22	LT	SPECIAL	66 x 16			9-9		7.33		
55	S-11	LOONEY RD	10+90	LT	R1-2-36	36 x 36		14		1	9		
					SPECIAL	24 x 18					3		
55	S-12	LOONEY RD	10+97	LT	R1-2-36	36 x 36		14		1	9		
55	S-13	LOONEY RD	11+36	LT	W11-2-30	30 x 30	14				6.25		
					W16-7PL-24	24 x 12					2		
55	S-14	LOONEY RD	11+17	LT	W11-2-30	30 x 30	14				6.25		
					W16-7PL-24	24 x 12					2		
55	S-15	LOONEY RD	12+56	LT	R3-8LT_R-36	36x36	14				9		
55	S-16	LOONEY RD	12+60	RT	R8-3-24	24x24	14				4		
55	S-17	LOONEY RD	11+50	RT	R4-7-24	24 x 30	13				5		
55	S-18	LOONEY RD	11+18	RT	W11-2-30	30 x 30	14				6.25		
					W16-7PL-24	24 x 12					2		
55	S-19	LOONEY RD	10+97	RT	SPECIAL	66 x 16			9-9		7.33		
55	S-20	GARBRY RD	5+85	LT	R1-2-36	36 x 36		14		1	9		
55	S-21	GARBRY RD	5+96	LT	R1-2-36	36 x 36		14		1	9		
					SPECIAL	24 x 18					3		
55	S-22	GARBRY RD	6+21	LT	W11-2-30	30 x 30	14				6.25		
					W16-7PL-24	24 x 12					2		
55	S-23	GARBRY RD	7+21	LT	W3-2-30	30 x 30	14				6.25		
55	S-24	GARBRY RD	8+21	LT	W2-6-30	30 x 30		14			6.25		
					W13-1P-18	18 x 18					2.25		
55	S-25	GARBRY RD	6+27	LT	R4-7-24	24 x 30	13				5		
55	S-26	GARBRY RD	5+98	RT	W11-2-30	30 x 30	14				6.25		
					W16-7PL-24	24 x 12					2		
55	S-27	GARBRY RD	5+80	RT	SPECIAL	66 x 16			9-9		7.33		
55	S-28	LOONEY RD	9+43	RT	R1-2-36	36 x 36		14		1	9		
					SPECIAL	24 x 18					3		
55	S-29	LOONEY RD	9+35	RT	R1-2-36	36 x 36		14		1	9		
55	S-30	LOONEY RD	8+97	RT	W11-2-30	30 x 30	14				6.25		
					W16-7PL-24	24 x 12					2		
TOTALS CARRIED TO GENERAL SUMMARY							220	140	72	8	241.82	13	8

CALCULATED MSJ
CHECKED SMM

SIGNING SUBSUMMARY

MIA-LOONEY/
GARBRY RNDBT

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SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 3 POST (FT)	630 SIGN, FLAT SHEET (SF)
55	S-31	LOONEY RD	9+15	RT	W11-2-30	30 x 30	14	6.25
					W16-7PR-24	24 x 12		2
55	S-32	LOONEY RD	7+88	RT	R3-8LT_R-36	36 x 36	14	9
55	S-33	LOONEY RD	9+85	LT	R6-4-30	30 x 24	11	5
					R6-1R-36	36 x 12		3
55	S-34	GARBRY RD	4+79	LT	R6-4-30	30 x 24	11	5
					R6-1R-36	36 x 12		3
55	S-35	LOONEY RD	10+50	LT	R6-4-30	30 x 24	11	5
					R6-1R-36	36 x 12		3
55	S-36	GARBRY RD	5+25	RT	R6-4-30	30 x 24	11	5
					R6-1R-36	36 x 12		3
56	S-37	LOONEY RD	5+88	RT	W2-6-30	30 x 30	14	6.25
					W13-1P-18	18 x 18		2.25
56	S-38	LOONEY RD	6+88	RT	W3-2-30	30 x 30	14	6.25
56	S-39	LOONEY RD	13+06	LT	R8-3-24	24 x 24	14	4
56	S-40	LOONEY RD	13+56	LT	W3-2-30	30 x 30	14	6.25
56	S-41	LOONEY RD	14+71	LT	W2-6-30	30 x 30	14	6.25
					W13-1P-18	18 x 18		2.25
TOTALS CARRIED TO GENERAL SUMMARY							142	82.75

CALCULATED MSJ
CHECKED SMM

SIGNING SUBSUMMARY

MIA-LOONEY/
GARBRY RNDBT

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NOTES:
1. SEE SHEET 48 FOR TRAFFIC CONTROL LEGEND.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MSJ
CHECKED SMM

PAVEMENT MARKING PLAN

MIA-LOONEY/
GARBRY RNDBT

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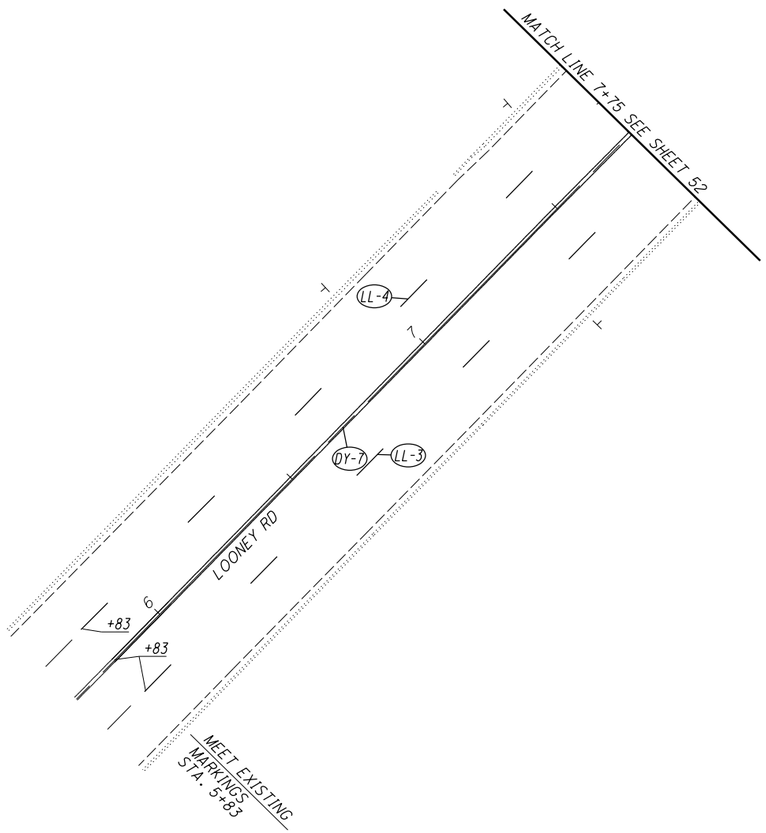

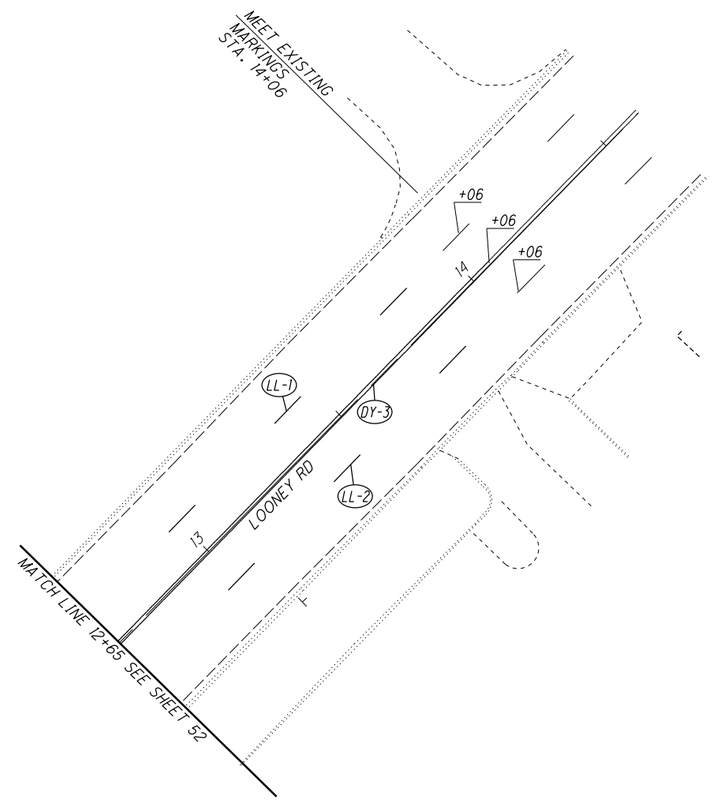

NOTES:
1. SEE SHEET 48 FOR TRAFFIC CONTROL LEGEND.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MSJ
CHECKED SMM

PAVEMENT MARKING PLAN

MIA-LOONEY/ GARBRY RNDBT

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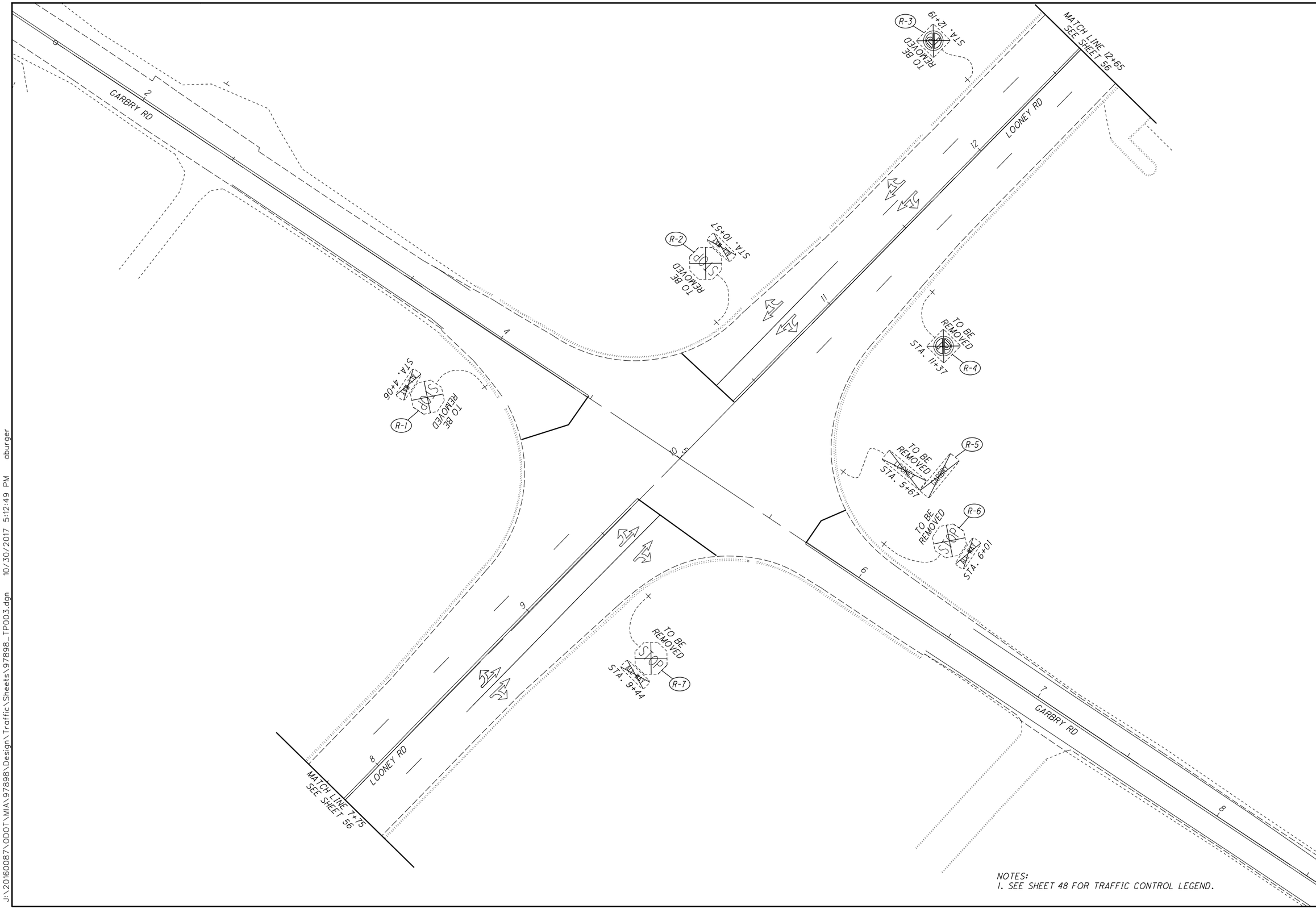

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MSJ
CHECKED SMM

SIGNAGE REMOVAL PLAN

MIA-LOONEY/ GARBRY RNDBT

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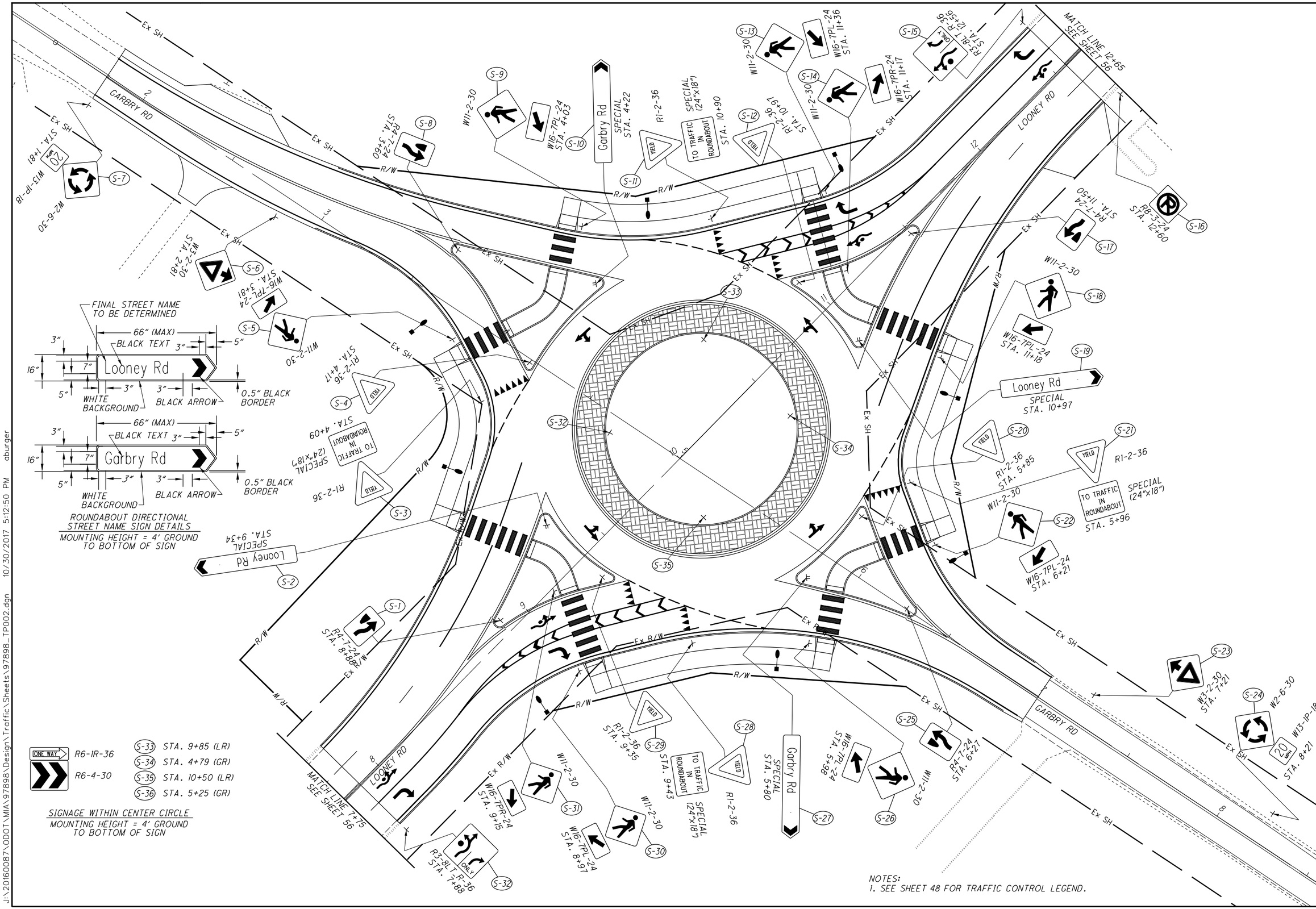

NOTES:
1. SEE SHEET 48 FOR TRAFFIC CONTROL LEGEND.

CALCULATED MSJ
CHECKED SMM

SIGNAGE PLAN

MIA-LOONEY/ GARBRY RNDBT

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NOTES:
1. SEE SHEET 48 FOR TRAFFIC CONTROL LEGEND.

0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED MSJ
CHECKED SMM

SIGNAGE PLAN

MIA-LOONEY/ GARBRY RNDBT

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LIGHTING NOTES

THE ROADWAY LIGHTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2016 OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. THIS DOCUMENT SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

COORDINATION WITH PIQUA POWER SYSTEM

PIQUA POWER SYSTEM WILL FURNISH AND INSTALL THE LIGHT POLES, LUMINAIRES, CONTROL CENTER, AND WIRING FOR THE PROPOSED LIGHTING SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH PIQUA TO ENSURE THAT ALL LIGHTING IS INSTALLED AND OPERATIONAL PRIOR TO OPENING THE ROADWAYS TO TRAFFIC. THE CONTRACTOR WILL BE RESPONSIBLE TO NOTIFY THE CITY OF PIQUA 4 WEEKS PRIOR TO COMPLETING PHASE 1. THE CITY WILL BE RESPONSIBLE TO INSTALL TEMPORARY LIGHTING IF THE PROJECT POLES HAVE NOT BEEN RECEIVED. ONCE THE CITY RECEIVES THE POLES DESIGNATED FOR THE PROJECT, IT WILL WORK WITH THE CONTRACTOR TO REPLACE THE TEMPORARY LIGHTING AND MINIMIZE DISTURBANCES TO TRAFFIC AND THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT MARILYN HEMSWORTH, PIQUA POWER SYSTEM (937-778-2077) FOR ALL COORDINATION EFFORTS.

ITEM 625, LIGHT POLE FOUNDATION, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 625 AND THE FOUNDATION DETAIL CONTAINED HEREIN, THE CONTRACTOR SHALL ALSO FURNISH ANCHOR BOLTS IN ACCORDANCE WITH 725.21. IT SHALL BE THE CONTRACTOR'S RESPONSBILITY TO COORDINATE WITH THE CITY OF PIQUA TO ENSURE THAT THE BOLT SIZE, LENGTH, ANCHOR BOLT CIRCLE, AND PATTERN MATCH THE LIGHT POLE THAT WILL BE INSTALLED BY THE CITY.

PAYMENT SHALL BE MADE PER ITEM 625, EXCEPT ANCHOR BOLTS SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM OF WORK.

ITEM 625, SPECIAL, MAINTAIN EXISTING LIGHTING

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN AND AS ILLUSTRATED ON THE MAINTENANCE OF TRAFFIC PLAN PHASING SHEETS.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF THE CITY OF PIQUA AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF EXISTING LIGHTING SHALL BE MADE BY THE CITY'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF THE CITY OF PIQUA AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE CITY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

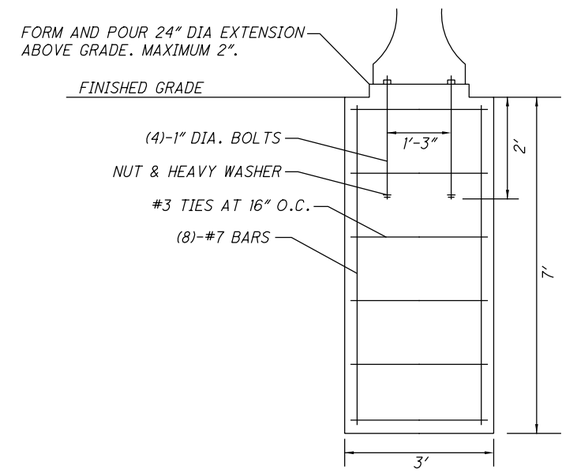
ITEM 625, SPECIAL, MAINTAIN EXISTING LIGHTING (CONTINUED)

THE EXPECTED SEQUENCE OF CONSTRUCTION ACTIVITIES WILL REQUIRE THE REMOVAL OF THE EXISTING LIGHTING BEFORE ALL OF THE NEW LIGHTING IS OPERATIONAL. STREET LIGHTS THAT ARE TO REMAIN OPERATIONAL, EXISTING LIGHTING THAT SHOULD BE REMOVED AND PROPOSED LIGHTING INSTALLATION REQUIREMENTS HAVE BEEN INDICATED ON THE INDIVIDUAL MAINTENANCE OF TRAFFIC PHASE PHASING SHEETS.

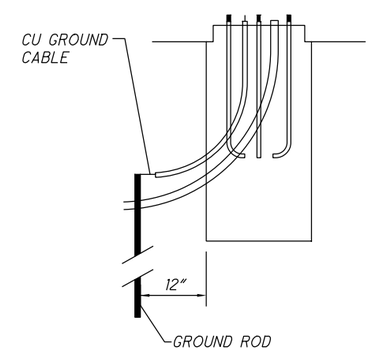
THE CITY OF PIQUA WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE OF THE LIGHTING WORK.

THE LUMP SUM PRICE BID FOR ITEM 625, SPECIAL, MAINTAIN EXISTING LIGHTING SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AND THE PHASED INSTALLATION OF THE PROPOSED LIGHTING SHALL BE AS SPECIFIED HEREIN.

THIS LUMP SUM ITEM HAS BEEN CARRIED TO THE GENERAL SUMMARY.



LIGHT POLE FOUNDATION, AS PER PLAN
(NO SCALE)



POLE GROUNDING
(NO SCALE)

CALCULATED DRM
CHECKED JDS

LIGHTING NOTES AND DETAILS

MIA-LOONEY/ GARBRY RNDBT

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SHEET NO.	REF. NO.	STATION FROM	STATION TO	SIDE	CENTERLINE ROADWAY REFERENCE	625 LIGHT POLE FOUNDATION, AS PER PLAN	625 CONDUIT, 2", 725.051	625 CONDUIT, 3", 725.04	625 TRENCH	625 PULL BOX, 725.08, 18"		625 GROUND ROD	625 PLASTIC CAUTION TAPE
						EACH	FT	FT	FT	EACH		EACH	FT
59	1	2+21.7		LT	GARBRY					1			
59	2	2+21.7	3+55.5	LT	GARBRY		140		140				140
59	3	3+55.5		LT	GARBRY					1			
59	4	3+55.5	4+20.6	LT	GARBRY		80		80				80
59	5	4+20.6			GARBRY	1						1	
59	6	4+20.6	4+32.7	LT	GARBRY		15		15				15
59	7	4+32.7		LT	GARBRY					1			
59	8	4+32.7	4+85.0	LT/LT	GARBRY/LOONEY			71	71				71
59	9	4+85.0		LT	LOONEY					1			
59	10	4+32.7	11+51.3	LT	GARBRY		75		75				75
59	11	11+51.3		LT	LOONEY	1						1	
59	12	11+51.3	11+64.2	LT	LOONEY		15		15				15
59	13	11+64.2		LT	LOONEY					1			
59	14	11+64.2	11+60.9	LT/RT	LOONEY			83	83				83
59	15	11+60.9		RT	LOONEY					1			
59	16	11+10.5	11+60.9	RT	LOONEY		59		59				59
59	17	11+10.5		RT	LOONEY	1						1	
59	18	11+10.5	6+35.0	RT/LT	LOONEY/GARBRY		76		76				76
59	19	6+35.0		LT	GARBRY	1						1	
59	20	6+35.0	6+43.0	LT	GARBRY		12		12				12
59	21	6+43.0		LT	GARBRY					1			
59	22	3+52.6	3+55.5	RT/LT	GARBRY			51	51				51
59	23	3+52.6		RT	GARBRY					1			
59	24	3+52.6	3+63.7	RT	GARBRY		20		20				20
59	25	3+63.7		RT	GARBRY	1						1	
59	26	3+63.7	9+20.6	RT/LT	GARBRY/LOONEY		70		70				70
59	27	9+20.6		LT	LOONEY	1						1	
59	28	8+52.1	9+20.6	LT	LOONEY		77		77				77
59	29	8+52.1		LT	LOONEY					1			
59	30	8+51.8	8+52.1	RT/LT	LOONEY			69	69				69
59	31	8+51.8		RT	LOONEY					1			
59	32	8+51.8	8+72.5	RT	LOONEY		24		24				24
59	33	8+72.5		RT	LOONEY	1						1	
59	34	8+72.5	5+91.7	RT/RT	LOONEY/GARBRY		122		122				122
59	35	5+91.7		RT	GARBRY	1						1	
59	36	5+91.7	6+38.9	RT	GARBRY		56		56				56
59	37	6+38.9		RT	GARBRY					1			
59	38	6+38.9	6+43.0	RT/LT	GARBRY			55	55				55
TOTALS CARRIED TO GENERAL SUMMARY						8	841	329	1,170	11		8	1,170

CALCULATED DRM
CHECKED JDS

LIGHTING SUBSUMMARY

MIA-LOONEY/
GARBRY RNDBT

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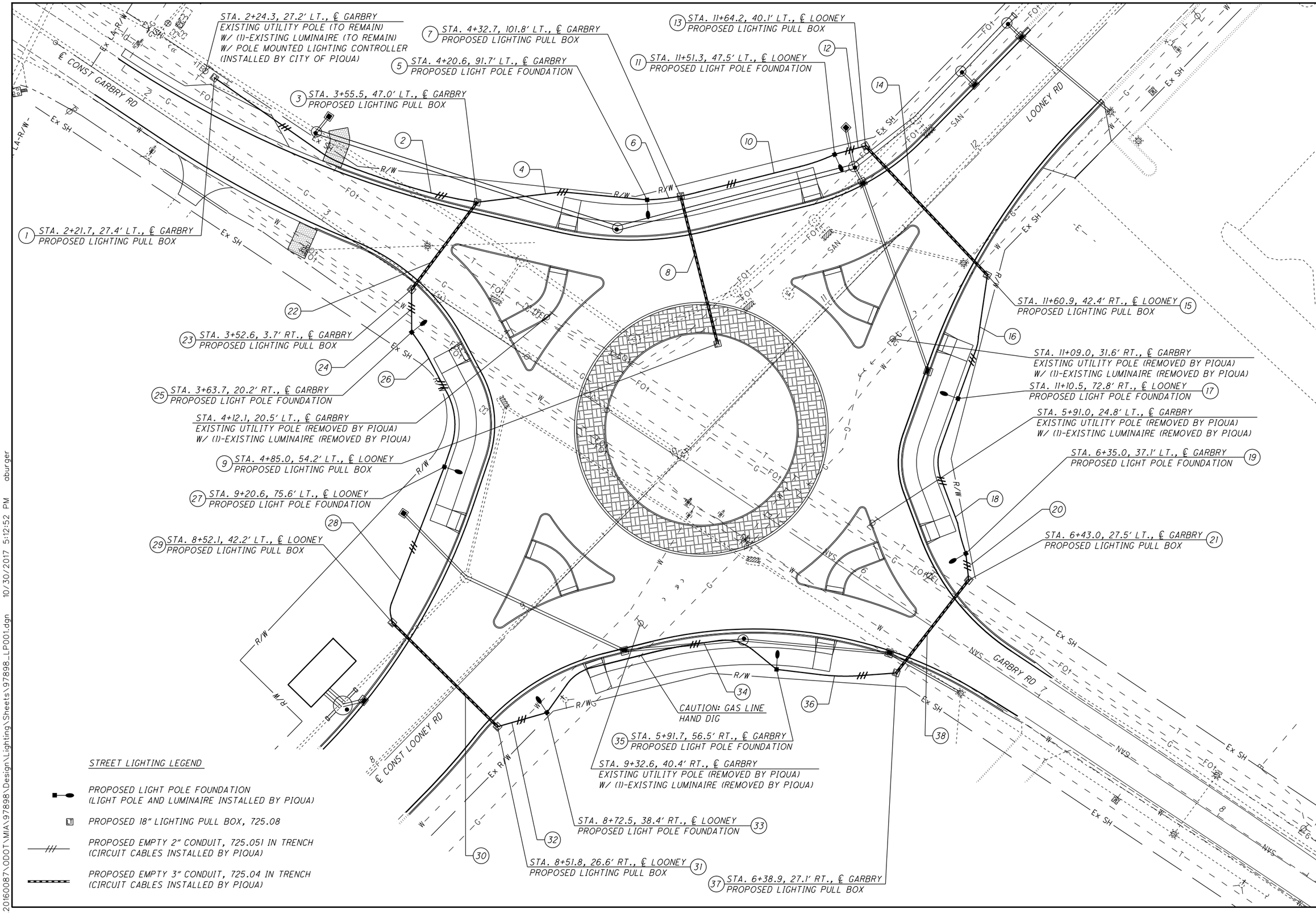

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED DRM
CHECKED JDS

LIGHTING PLAN

MIA-LOONEY/
GARBRY RNDBT

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ABBREVIATIONS

CRZ CRITICAL ROOT ZONE. CIRCULAR AREA AROUND A TREE EQUAL TO 1 FOOT OF RADIUS FOR EACH 1 INCH OF DBH OR THE LIMIT OF THE TREE CANOPY WHICHEVER IS GREATER.

DBH DIAMETER BREAT HEIGHT. THE TRUNK DIAMETER MEASURED 4.5 FEET ABOVE THE GROUND AT THE TRUNK.

GI GREEN INFRASTRUCTURE

ISA INTERNATIONAL SOCIETY OF ARBORICULTURE

LANDSCAPING GENERAL NOTES

1. ALL PLANTING OPERATIONS AND MATERIALS SHALL BE PER ITEM 661 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS) DATED 2016 UNLESS OTHERWISE MODIFIED. IN CASE OF ANY CONFLICT BETWEEN THE ODOT CMS AND THESE PLANS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE.

2. PRIOR TO INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE GENERAL SITE CONDITIONS AND VERIFY THE SUBGRADE, ELEVATIONS, UTILITY LOCATIONS AND TOPSOIL PROVIDED BY GENERAL CONTRACTOR. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS AND WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR.

3. CONFIRM LOCATION OF ALL UTILITIES AND SUBSURFACE DRAIN LINES PRIOR TO PLANT INSTALLATION.

4. MULCH PLANTING BEDS AND TREE RINGS WITH TRIPLE SHREDDED HARDWOOD MULCH OF UNIFORM DARK BROWN COLOR. IT SHALL BE FREE OF TWIGS, LEAVES, DISEASE, PEST OR OTHER MATERIAL UNSIGHTLY OR INJURIOUS TO PLANTS. AVERAGE APPLIED THICKNESS SHALL BE 3" DEPTH.

5. INSTALL ALL PLANTS IN ACCORDANCE WITH REFERENCED SPECIFICATIONS, ITEM 661 AND THE PLANTING DETAILS.

6. PLANTING BEDS AND TREE MULCH RINGS SHALL BE COVERED WITH PRE-EMERGENT HERBICIDE APPLIED AT PRODUCT SPECIFIED RATE UNLESS OTHERWISE NOTED.

7. ALL PLANTING BEDS TO BE TILLED AND BACKFILLED WITH PREPARED PLANTING MIX TO A MINIMUM DEPTH OF 24 INCHES, UNLESS INDICATED OTHERWISE ON THE PLAN.

8. UNLESS OTHERWISE INDICATED, PLANTING MIX SHALL BE BLENDED, MANUFACTURED SOIL CONSISTING OF THREE (3) PARTS TOPSOIL, ONE (1) PART COMPOST, AND ONE (1) PART SAND. TOPSOIL SHALL BE PER ITEM 653. COMPOST SHALL BE YARD WASTE COMPOST FROM AN EPA RATED CLASS IV COMPOST FACILITY. PLACE PLANTING MIX IN SETTLED 6 INCH LIFTS.

9. MIX MYCORRHIZAL FUNGI INTO PLANTING MIX DURING PLACEMENT OF PLANTING MIX. APPLICATION RATE SHALL BE ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.

10. ROTO-TIL SUBGRADE BELOW PLANTING MIX TO A DEPTH OF 4 INCHES PRIOR TO PLACEMENT OF PLANTING MIX.

11. PLANTING BEDS, INCLUDING MULCH, SHALL BE FLUSH WITH ADJACENT GRADE. FINISHED PLANTING BEDS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE.

12. CONTRACTOR SHALL DETERMINE PLANT LIST QUANTITIES FROM THE PLAN. GRAPHIC REPRESENTATION ON PLAN SUPERSEDES IN CASE OF DISCREPANCY WITH QUANTITIES ON GENERAL SUMMARY OR SCHEDULES.

13. WATER ALL PLANTS PER ITEM 662. INCLUDE 3 APPLICATIONS PER WEEK DURING THE PERIOD OF ESTABLISHMENT AS DEFINED IN ITEM 661. ALL LABOR AND MATERIALS REQUIRED FOR WATERING SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR EACH PLANT.

14. ALL LAYOUT, EXCAVATION, MAINTENANCE, PRUNING, BED PREPARATION, ROOT BALL PREPARATION, PLANTING MIX, MULCH, STAKING, STAKE REMOVAL, WATER AND ANY OTHER APPURTENANCES OR MISCELLANEOUS WORK REQUIRED FOR A COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH PLANT. NO SEPARATE PAYMENTS WILL BE MADE.

ITEM 666 – PRUNING EXISTING TREES, 16 TO 24-INCH DIAMETER, AS PER PLAN

TREE PRUNING SHALL CONFORM TO ODOT CMS ITEM 666 EXCEPT AS MODIFIED HEREIN.

PRUNE ROOTS FLUSH WITH THE EDGE OF THE CRZ BY CLEANLY CUTTING ALL ROOTS OVER 1 INCH TO THE DEPTH OF THE REQUIRED EXCAVATION. CRZ SHOULD BE DETERMINED IN THE FEILD. BEYOND THE LINE OF ROOT PRUNING EXPOSE ROOTS WITH A HYDRO-VACUUM OR AIR-SPADE TO THE DEPTH OF THE REQUIRED EXCAVATION. CLEANLY CUT ROOTS AS CLOSE TO EXCAVATION AS POSSIBLE.

CUT ROOTS WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK, TEAR, CHOP, OR SLANT THE CUTS. DO NOT USE A BACKHOE OR OTHER EQUIPMENT THAT RIPS, TEARS, OR PULLS ROOTS. DO NOT PAINT CUT ROOT ENDS.

COVER EXPOSED ROOTS WITH BURLAP AND WATER REGULARLY DURING CONSTRUCTION. COVER EXPOSED ROOTS WITH SOIL AS SOON AS POSSIBLE.

PRUNE BRANCHES OF TREES TO COMPENSATE FOR ROOT LOSS CAUSED BY DAMAGING OR CUTTING ROOT SYSTEM OR WHERE CONSTRUCTION EQUIPMENT MAY DAMAGE LOWER BRANCHES. DO NOT REMOVE MORE THAN 1/4 OF THE LIVE FOLIAGE OR BRANCHES. PRUNE TREES ACCORDING TO ANSI A300 (PART 1). CUT BRANCHES WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP. DO NOT APPLY PRUNING PAINT TO WOUNDS. ALL PRUNING SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST.

FERTILIZE TREES PRIOR TO ROOT PRUNING. APPLICATION RATE, METHOD AND ANALYSIS SHALL BE DETERMINED BY AN ISA CERTIFIED ARBORIST.

PAYMENT FOR ALL WORK DESCRIBED ABOVE, INCLUDING ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO COMPLETE THIS ITEM, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH ITEM 666 – PRUNING EXISTING TREES, 16 TO 24-INCH DIAMETER, AS PER PLAN.

ITEM SPECIAL – BENCH STONES

BENCH STONES SHALL BE RECTANGULAR AT 42" LONG, 24" WIDE AND 18" TALL AND SHALL BE INSTALLED AS PER THE INSTALLATION DETAIL ON THIS SHEET. STONES SHALL BE A BUFF COLOR. COLOR, MATERIAL AND SUPPLIER MUST BE APPROVED BY THE CITY OF PIQUA PRIOR TO ORDERING OR INSTALLATION.

PAYMENT FOR ALL WORK TO INSTALL STONES, INCLUDING ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO COMPLETE THIS ITEM, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH ITEM SPECIAL – BENCH STONES. PAYMENT FOR THE #57 STONE, PLACED UNDER THE BENCH STONES AS SHOWN IN THE DETAIL ON THIS SHEET, SHALL BE INCLUDED WITH THE PRICE OF THE BENCH STONES.

TREE PROTECTION

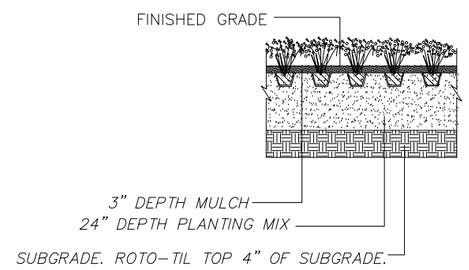
ALL EXISTING TREES WITHIN PROJECT WORK LIMITS, TO REMAIN, SHALL BE PROTECTED AGAINST UNNECESSARY CUTTING; BREAKING OR SKINNING OF ROOTS; SKINNING AND BRUISING OF BARK; SMOTHERING BY STOCKPILING OF CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS; EXCESS FOOT OR VEHICULAR TRAFFIC OR PARKING OF VEHICLES WITHIN THE CRZ.

TREES TO REMAIN SHALL BE PROTECTED WITH A FENCE. PLACE FENCE AT LIMITS OF CRZ. FENCING SHALL REMAIN IN PLACE AND BE SECURED IN AN UPRIGHT POSITION DURING THE ENTIRE CONSTRUCTION PERIOD.

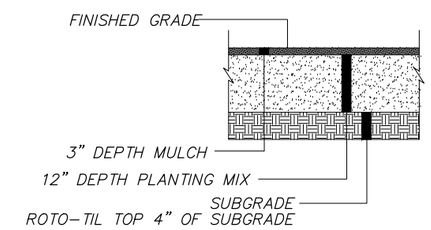
FENCE POSTS SHALL BE METAL U-CHANNEL POSTS, PAINTED BLACK, SPACED A MAXIMUM OF 6'-0" ON-CENTER. FENCE FABRIC SHALL BE 4' HIGH BLACK HDPE SAFETY FENCE FABRIC. SECURE FENCE FABRIC TO POSTS WITH BLACK PLASTIC TIES SPACED AT 12" VERTICALLY.

PAYMENT FOR TREE PROTECTION, AS DESCRIBED ABOVE, SHALL BE INCIDENTAL TO THE ITEM(S) OF WORK THAT WILL BE PERFORMED ADJACENT TO THE TREES.

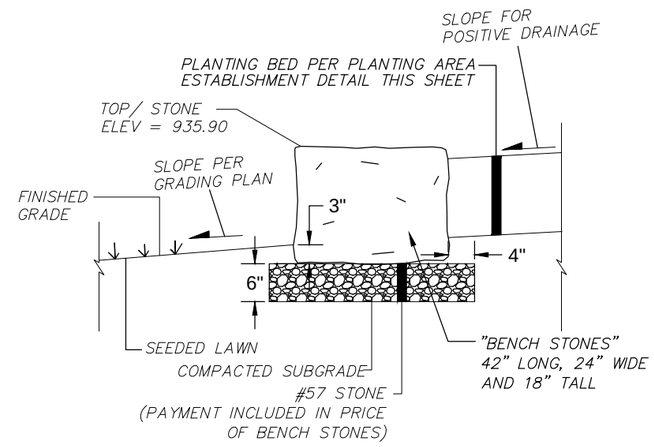
SHT. NO.	REF. NO.	661 PERENNIALS, FROSTY ELEGANCE DAYLILY	661 PERENNIALS, HIDCOTE LAVENDER	661 PERENNIALS, MAIDEN GRASS	690 SPECIAL – BENCH STONE
		EACH	EACH	EACH	EACH
61	HA	90			
61	LH		21		
61	MG			10	
61					35
TOTALS CARRIED TO GENERAL SUMMARY		90	21	10	35



PERENNIAL & GROUNDCOVER PLANTING
NO SCALE



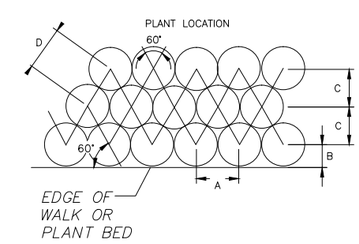
PLANTING AREA ESTABLISHMENT
NO SCALE



BENCH STONE (STONE RING) INSTALLATION SECTION DETAIL
NO SCALE

SPACING	A	B	C	D
12"	12"	6"	10"	12"
15"	15"	7.5"	12.5"	15"
18"	18"	9"	15"	18"
24"	24"	12"	20"	24"
36"	36"	18"	30"	36"
48"	48"	24"	40"	48"

A= SPACING
B= SPACING/2
C= SPACING/1.2
D= SPACING



PLANT SPACING
NO SCALE

CALCULATED DS
CHECKED FM

LANDSCAPING NOTES AND QUANTITIES

MIA-LOONEY/
GARBRY RNDBT

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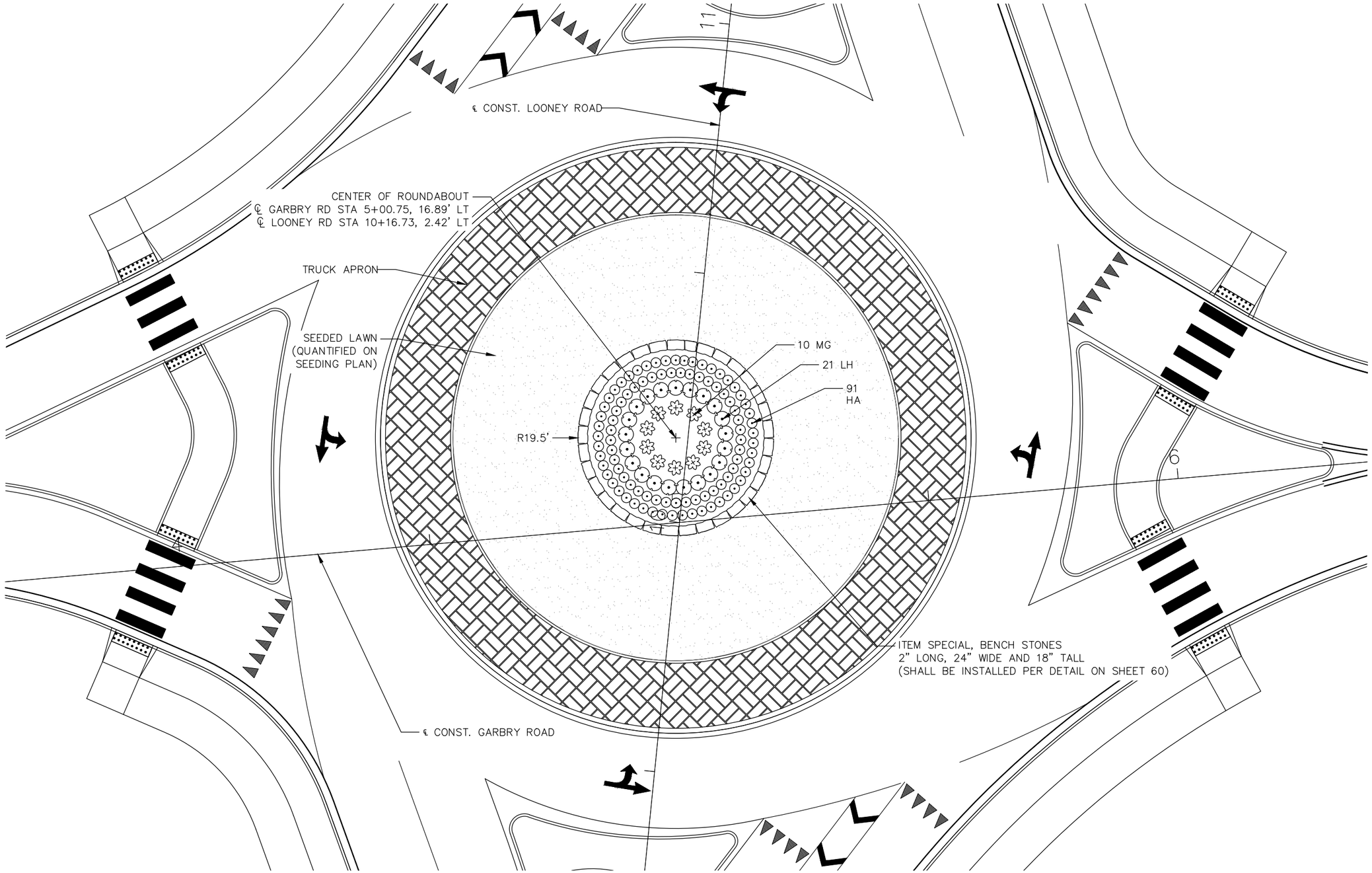

PLAN VIEW

SCALE: 1" = 10'

NOTE:
GRADING, OUTSIDE RING OF STONE RING, SHALL BE PER GRADING PLAN ON SHEET 43.

PLANT_SCHEDULE

GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
	MG	10	Miscanthus sinensis 'Gracillimus'	Maiden Grass	#3	Cont.

PERENNIALS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
	HA	90	Hemerocallis 'Frosty Eleg.Daylily	'Frosty Elegance Daylily	#2	Cont.
	LH	21	Lavandula angustifolia 'Hidcote'	Hidcote Lavender	#2	Cont.

CALCULATED DS
CHECKED FM

LANDSCAPING PLAN

MIA-LOONEY/
GARBRY RNDBT

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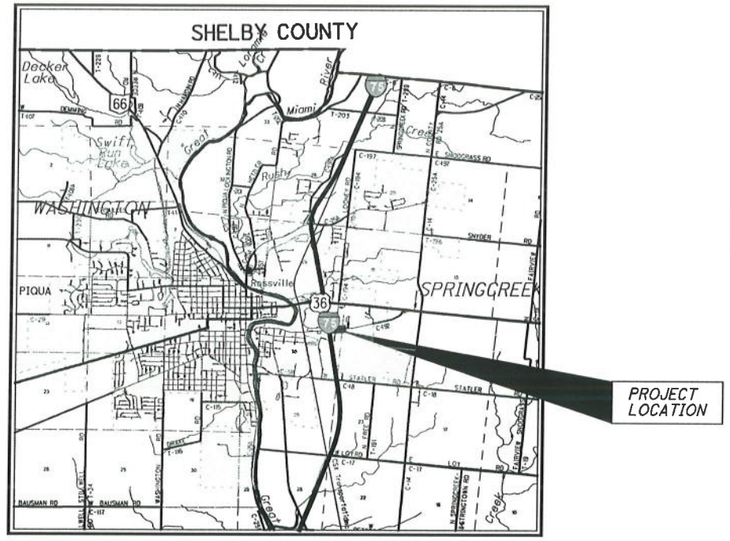
RIGHT OF WAY LEGEND SHEET
MIA-LOONEY/GARBRY ROUNDABOUT

MIAMI COUNTY
SECTION 30, TOWN 1, RANGE 11
SPRINGCREEK TOWNSHIP
CITY OF PIQUA



LOCATION MAP

LATITUDE: 40°8'46" LONGITUDE: 84°13'2"

SCALE IN MILES

0 1 2 3 4

N

INDEX OF SHEETS:

RIGHT OF WAY LEGEND	1
CENTERLINE PLAT	2 - 3
PROPERTY MAP	4
SUMMARY OF ADDITIONAL R/W	5
RIGHT OF WAY DETAIL SHEETS	6 - 9

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A MODERN ROUNDABOUT AT THE INTERSECTION OF LOONEY ROAD AND GARBRY ROAD IN THE CITY OF PIQUA. THIS PROJECT INCLUDES THE CONSTRUCTION OF ASPHALT PAVEMENT, CURB, SIDEWALK, STORM WATER DRAINAGE AND BEST MANAGEMENT PRACTICES, STREET LIGHTING AND TRAFFIC CONTROL.

PLANS PREPARED BY:

FIRM NAME: EVANS, MECHWART, HAMBLETON & TILTON, INC.
R/W DESIGNER: STEVEN E. ANELLO
R/W REVIEWER: JOHN C. DODGION - PS 8069
FIELD REVIEWER: ROBERT S. HOOPS
TRACINGS FIELD REVIEW DATE: 4/17/2017
OWNERSHIP UPDATED BY: STEVEN E. ANELLO
DATE COMPLETED: 4/13/2017
PLAN COMPLETION DATE: 4/17/2017

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

PARCEL IDENTIFIER LEGEND:

WD = WARRANTY DEED
S = SEWER EASEMENT
T = TEMPORARY EASEMENT

MONUMENT LEGEND

- EXISTING CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- I.R.F. IRON PIN FOUND
- I.R.F. IRON PIN FOUND W/ ID CAP
- R.P.F. IRON PIPE FOUND
- P.K.F. P.K. NAIL FOUND
- I.R.S. 5/8" DIAMETER x 30" LONG REBAR SET WITH A 2" DIAMETER ALUMINUM CAP INSCRIBED "EMHT"

CONVENTIONAL SYMBOLS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Temporary Right of Way TMP
Drainage Ease. (Pr) SW
Utility Ease. (Ex) Ex U
Railroad or
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)
Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol , Example
Tree (Pr) , Tree (Ex) , Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Wetland (Pr) , Grass (Pr) , Aerial Target
Post (Ex) , Mailbox (Ex) , Mailbox (Pr)
Light (Ex) , Telephone Marker (Ex) TEL
Fire Hydrant (Ex) , Water Meter (Ex)
Water Valve (Ex) , Utility Valve Unknown (Ex.)
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex)

UTILITY OWNERS

COMMUNICATIONS:
AT&T
JESSE WEAD
3233 WOODMAN DRIVE
DAYTON, OH 45420
937-296-3894

CHARTER COMMUNICATIONS
JACOB HOUDESHELL
3691 TURNER ROAD
DAYTON OH, 45415
937-396-8372

ELECTRIC:
PIQUA POWER
NICK BERGER
201 HEMM AVENUE
PIQUA, OH 45356
937-778-2077

GAS:
VECTREN ENERGY DELIVERY
DON SPECHT
6500 CYLO ROAD
CENTERVILLE, OH 45459
937-312-2533

WATER/ SEWER:
CITY OF PIQUA
BILL HARDING
219 W. WATER STREET
PIQUA, OH 45356
937-778-2016

NOTE:
THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

I, JOHN C. DODGION, P. S. HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE CITY OF PIQUA, MIAMI COUNTY, OHIO IN APRIL, 2016. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. THE HORIZONTAL COORDINATES EXPRESSED HEREIN ARE BASED ON THE OHIO STATE PLANE COORDINATES SYSTEM SOUTH ZONE ON NAD 83 (2011) DATUM. THE PROJECT COORDINATES (US SURVEY FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS OR US SURVEY FEET) BY A PROJECT ADJUSTMENT FACTOR OF 0.999990266449503. AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING PROPERTY LINES AND THE EXISTING CENTERLINE OF RIGHT OF WAY FOR PROPERTY TAKES CONTAINED HEREIN. AS A PART OF THIS PROJECT I HAVE ESTABLISHED THE PROPOSED PROPERTY LINES, CALCULATED THE GROSS TAKE, PRESENT ROADWAY OCCUPIED (PRO), NET TAKE AND NET RESIDUE; AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THE PARCELS AS SHOWN HEREIN. AS A PART OF THIS WORK I HAVE SET RIGHT OF WAY MONUMENTS AT THE PROPERTY CORNERS, PROPERTY LINE INTERSECTION, POINTS ALONG THE RIGHT OF WAY AND/OR ANGLE POINTS ON THE RIGHT OF WAY, SECTION CORNERS AND OTHER POINTS AS SHOWN HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37 COMMONLY KNOWN AS "MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS NOTED. THE WORDS I AND MY AS USED HEREIN ARE TO MEAN EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.

JOHN C. DODGION, PROFESSIONAL LAND SURVEYOR #8069 DATE: 04/14/2017

SURVEYORS SEAL

STATE OF OHIO JOHN C. DODGION S-8069 REGISTERED SURVEYOR

SIGNED: DATE: 04/14/2017

FEDERAL PROJECT NO. E140974
PID NO. 97898
CALCULATED SEA CHECKED JCD

RIGHT OF WAY LEGEND SHEET
MIA-LOONEY/ GARBRY RNDBT

1/9
62/70

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MIA-LOONEY/GARBRY ROUNDABOUT

MIAMI COUNTY
SECTION 30, TOWN 1, RANGE 11
SPRINGCREEK TOWNSHIP
CITY OF PIQUA

VOLUME 26 PAGE 48
MIAMI COUNTY RECORDER'S RECORD OF PLATS

FEE 86.40

Jessica A Lopez
MIAMI COUNTY RECORDER

BY DEPUTY RECORDER

MIAMI COUNTY AUDITOR

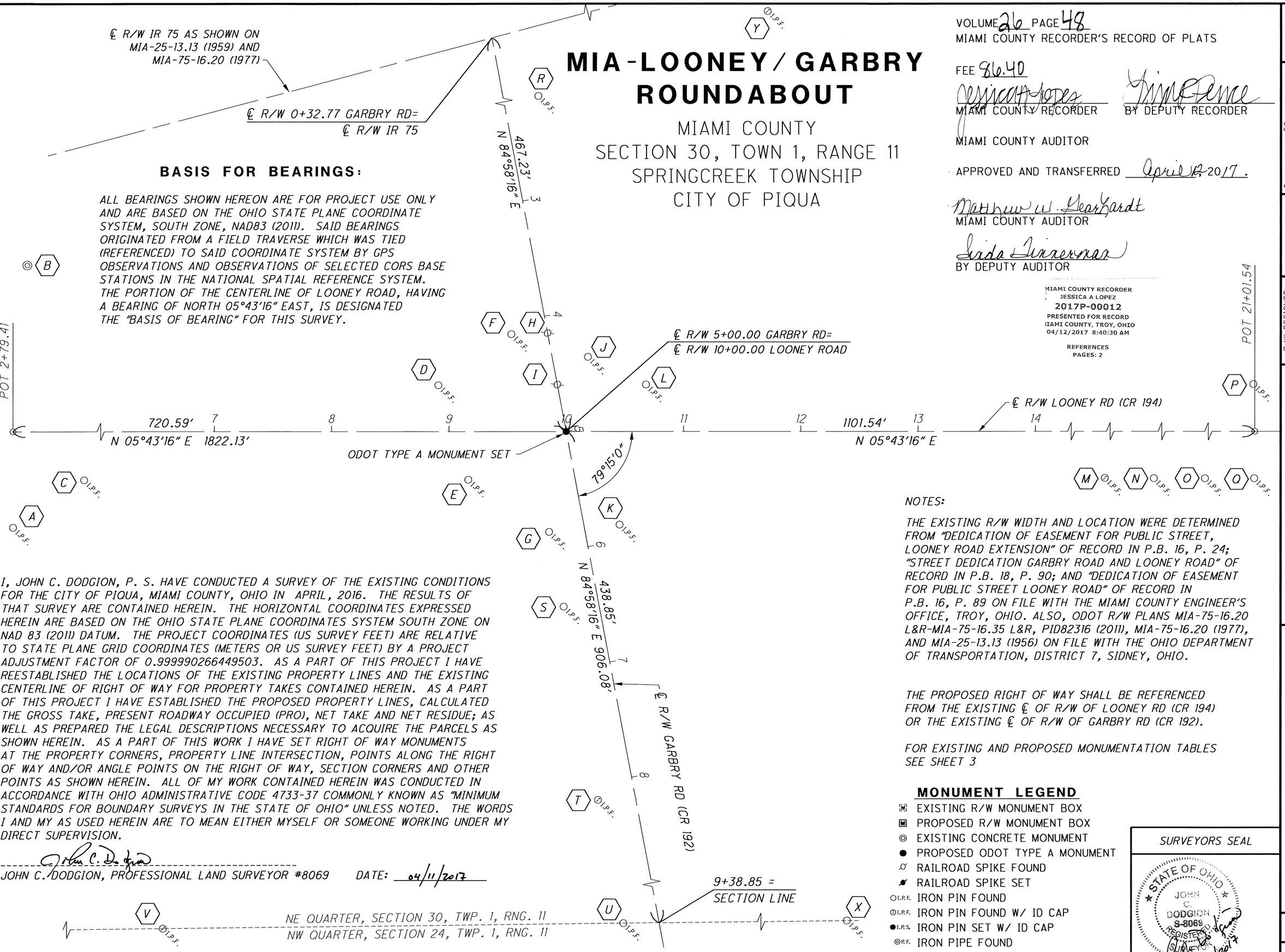
APPROVED AND TRANSFERRED April 12, 2017.

Matthew W. Gearhardt
MIAMI COUNTY AUDITOR

Linda Zimmerman
BY DEPUTY AUDITOR

MIAMI COUNTY RECORDER
JESSICA A LOPEZ
2017P-00012
PRESENTED FOR RECORD
MIAMI COUNTY, TROY, OHIO
04/12/2017 8:40:30 AM

REFERENCES
PAGES: 2



BASIS FOR BEARINGS:

ALL BEARINGS SHOWN HEREON ARE FOR PROJECT USE ONLY AND ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 (2011). SAID BEARINGS ORIGINATED FROM A FIELD TRAVERSE WHICH WAS TIED (REFERENCED) TO SAID COORDINATE SYSTEM BY GPS OBSERVATIONS AND OBSERVATIONS OF SELECTED CORS BASE STATIONS IN THE NATIONAL SPATIAL REFERENCE SYSTEM. THE PORTION OF THE CENTERLINE OF LOONEY ROAD, HAVING A BEARING OF NORTH 05°43'16" EAST, IS DESIGNATED THE "BASIS OF BEARING" FOR THIS SURVEY.

I, JOHN C. DODGION, P. S. HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE CITY OF PIQUA, MIAMI COUNTY, OHIO IN APRIL, 2016. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. THE HORIZONTAL COORDINATES EXPRESSED HEREIN ARE BASED ON THE OHIO STATE PLANE COORDINATES SYSTEM SOUTH ZONE ON NAD 83 (2011) DATUM. THE PROJECT COORDINATES (US SURVEY FEET) ARE RELATIVE TO STATE PLANE GRID COORDINATES (METERS OR US SURVEY FEET) BY A PROJECT ADJUSTMENT FACTOR OF 0.999990266449503. AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING PROPERTY LINES AND THE EXISTING CENTERLINE OF RIGHT OF WAY FOR PROPERTY TAKES CONTAINED HEREIN. AS A PART OF THIS PROJECT I HAVE ESTABLISHED THE PROPOSED PROPERTY LINES, CALCULATED THE GROSS TAKE, PRESENT ROADWAY OCCUPIED (PRO), NET TAKE AND NET RESIDUE; AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THE PARCELS AS SHOWN HEREIN. AS A PART OF THIS WORK I HAVE SET RIGHT OF WAY MONUMENTS AT THE PROPERTY CORNERS, PROPERTY LINE INTERSECTION, POINTS ALONG THE RIGHT OF WAY AND/OR ANGLE POINTS ON THE RIGHT OF WAY, SECTION CORNERS AND OTHER POINTS AS SHOWN HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37 COMMONLY KNOWN AS "MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS NOTED. THE WORDS I AND MY AS USED HEREIN ARE TO MEAN EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.

John C. Dodgion
JOHN C. DODGION, PROFESSIONAL LAND SURVEYOR #8069 DATE: 04/11/2017

NOTES:

THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED FROM "DEDICATION OF EASEMENT FOR PUBLIC STREET, LOONEY ROAD EXTENSION" OF RECORD IN P.B. 16, P. 24; "STREET DEDICATION GARBRY ROAD AND LOONEY ROAD" OF RECORD IN P.B. 18, P. 90; AND "DEDICATION OF EASEMENT FOR PUBLIC STREET LOONEY ROAD" OF RECORD IN P.B. 16, P. 89 ON FILE WITH THE MIAMI COUNTY ENGINEER'S OFFICE, TROY, OHIO. ALSO, ODOT R/W PLANS MIA-75-16.20 L&R-MIA-75-16.35 L&R, PID82316 (2011), MIA-75-16.20 (1977), AND MIA-25-13.13 (1956) ON FILE WITH THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 7, SIDNEY, OHIO.

THE PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE EXISTING ℄ OF R/W OF LOONEY RD (CR 194) OR THE EXISTING ℄ OF R/W OF GARBRY RD (CR 192).

FOR EXISTING AND PROPOSED MONUMENTATION TABLES SEE SHEET 3

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED ODOT TYPE A MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- O.I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

SURVEYORS SEAL

STATE OF OHIO
JOHN C. DODGION
S-8069
REGISTERED SURVEYOR
04/11/2017

N

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 97898

R/W DESIGNER SEA
R/W REVIEWER JCD

CENTERLINE PLAT (1 OF 2)

MIA-LOONEY/GARBRY ROUNDABOUT

2/9

63/70

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volume 26 page 48A

PROPOSED MONUMENT TABLE

℄ OF EX R/W		PROJECT COORDINATES SEE SURVEY CERTIFICATION		MONUMENTS TO BE SET DURING CONSTRUCTION		R/W MON. EXPECTED TO BE DISTURBED	DESCRIPTION
STATION	OFFSET	NORTH (Y)	EAST (X)	MON. ASSY.	REF. MON.	R/W MON.	
10+00.00*	℄	786209.953	1488479.875		1		TYPE A MONUMENT SET AT INTERSECTION OF ℄ OF EX R/W
5+00.00**	℄						
3+00.00**	30.00' LT	786222.306	1488278.016			1	1 PIN SET WITHIN CONST LIMTS
4+15.30**	90.00' LT	786292.182	1488387.613			1	1 PIN SET WITHIN CONST LIMTS
11+70.00*	40.00' LT	786383.094	1488457.021			1	1 PIN SET WITHIN CONST LIMTS
3+73.82**	30.00' RT	786169.008	1488356.814			1	1 PIN SET WITHIN CONST LIMTS
4+03.39**	65.06' RT	786136.671	1488389.343			1	1 PIN SET WITHIN CONST LIMTS
7+90.00*	40.00' RT	786004.987	1488419.141			1	1 PIN SET WITHIN CONST LIMTS
8+75.00*	40.00' RT	786081.589	1488507.216			1	1 PIN SET WITHIN CONST LIMTS
5+67.19**	75.00' RT	786141.132	1488553.381			1	1 PIN SET WITHIN CONST LIMTS
6+45.00**	30.00' LT	786252.549	1488621.688			1	1 PIN SET WITHIN CONST LIMTS
6+04.90**	70.00' LT	786288.879	1488578.233			1	1 PIN SET WITHIN CONST LIMTS
11+75.00*	40.00' RT	786380.094	1488537.121			1	1 PIN SET WITHIN CONST LIMTS
TOTALS CARRIED TO GENERAL SUMMARY				0	1	11	

NOTES:
* STATION & OFFSET FROM THE ℄ R/W OF LOONEY RD (CR 194)
** STATION & OFFSET FROM THE ℄ R/W OF GARBRY RD (CR 192)

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

(A) FOUND MONUMENTATION FROM SHEET 2

FOUND MONUMENTATION TABLE

REF	SV POINT	℄ OF EX R/W		PROJECT COORDINATES SEE SURVEY CERTIFICATION		DESCRIPTION
		STATION	OFFSET	NORTHING	EASTING	
A	MN627	2+71.48*	81.72' RT	785476.917	1488488.561	5/8" REBAR FND
B	MN628	2+83.44*	141.82' LT	785511.105	1488267.334	CONCRETE MONUMENT W/DRILL HOLE FND
C	MN626	3+32.04*	41.343' RT	785541.195	1488454.420	5/8" REBAR FND
D	MN621	8+90.97*	39.51' LT	786105.408	1488429.695	5/8" REBAR FND
E	MN620	9+16.54*	41.07' RT	786122.812	1488512.422	5/8" REBAR FND
F	MN622	4+09.74**	30.50' RT	786171.657	1488392.632	5/8" REBAR FND
G	MN619	5+81.27**	30.21' RT	786186.982	1488563.483	5/8" REBAR FND
H	MN612	4+14.57**	℄	786202.465	1488394.777	RAILROAD SPIKE FND
I	MN613	4+59.35**	0.02' LT	786206.413	1488439.377	RAILROAD SPIKE FND
J	MN611	4+41.02**	29.99' LT	786234.653	1488418.495	5/8" REBAR FND
K	MN615	5+86.41**	29.98' LT	786247.393	1488563.323	5/8" REBAR FND
L	MN614	10+67.98*	39.92' LT	786281.577	1488446.929	5/8" REBAR FND
M	MN606	15+18.79*	39.74' RT	786722.199	1488571.129	5/8" REBAR W/"MTH PS5621" CAP FND
N	MN605	16+91.07*	40.00' RT	786893.590	1488588.563	5/8" REBAR FND
O	MN604	18+72.04*	40.00' RT	787073.658	1488606.608	5/8" REBAR FND
P	MN609	21+00.28*	40.28' LT	787308.768	1488549.477	5/8" REBAR FND
Q	MN608	21+02.90*	40.00' RT	787303.371	1488629.617	5/8" REBAR FND
R	MN610	1+71.16**	29.74' LT	786210.752	1488149.690	5/8" REBAR FND
S	MN618	6+46.32**	29.85' RT	786193.049	1488628.245	5/8" REBAR FND
T	MN617	8+13.75**	31.69' RT	786205.884	1488795.192	5/8" REBAR W/"PS4370" CAP FND
U	MN616	9+33.36**	30.00' RT	786218.056	1488914.200	5/8" REBAR FND
V	MN624	8+64.52**	419.49' RT	785827.023	1488879.499	5/8" REBAR W/"KLOCKNER PS 4370" CAP FND
X	MN603	11+20.11**	1018.43' LT	787278.821	1489008.324	5/8" REBAR FND
Y	MN629	ON IR 75 EX R/W LINE		787341.956	1488037.179	5/8" REBAR W/"MTH PS5621" CAP FND

RECEIVED April 12, 2017
RECORDED April 12, 2017
BOOK 26 PAGE 48-A

COUNTY RECORDER

SURVEYORS SEAL

STATE OF OHIO JOHN C. DOUGLAS 8-3088 REGISTERED SURVEYOR

04/11/2017

PID NO. 97898

R/W DESIGNER SEA
R/W REVIEWER JCD

CENTERLINE PLAT (2 OF 2)

MIA-LOONEY/GARBRY ROUNDABOUT

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EASEMENTS

A 10'X20' COMMUNICATION EASEMENT
THE OHIO BELL TELEPHONE COMPANY
DB 649, PG 513

B 10'X25' COMMUNICATION EASEMENT (EXCLUSIVE)
THE OHIO BELL TELEPHONE COMPANY
DB.769, PG 599

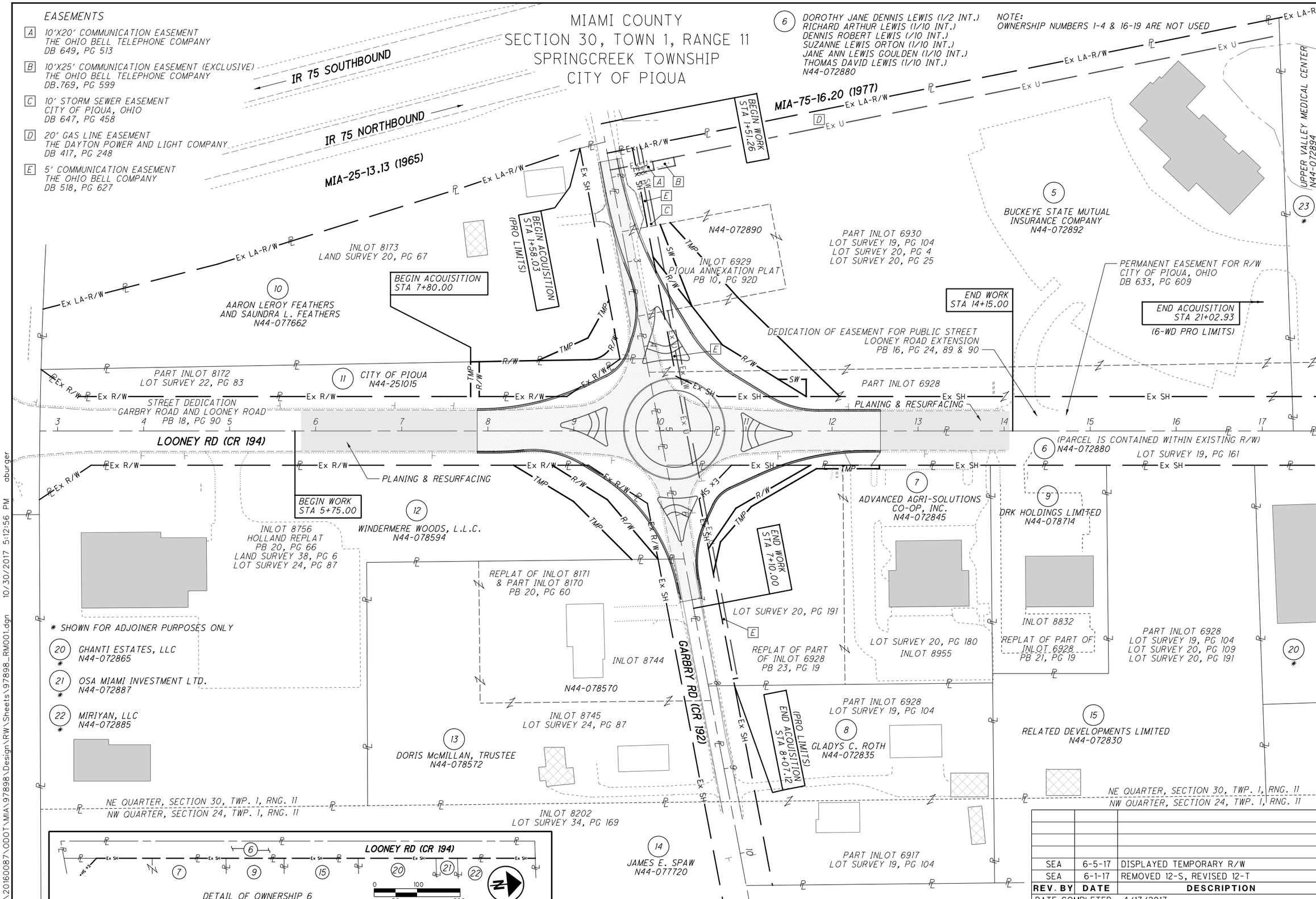
C 10' STORM SEWER EASEMENT
CITY OF PIQUA, OHIO
DB 647, PG 458

D 20' GAS LINE EASEMENT
THE DAYTON POWER AND LIGHT COMPANY
DB 417, PG 248

E 5' COMMUNICATION EASEMENT
THE OHIO BELL COMPANY
DB 518, PG 627

MIAMI COUNTY
SECTION 30, TOWN 1, RANGE 11
SPRINGCREEK TOWNSHIP
CITY OF PIQUA

NOTE:
OWNERSHIP NUMBERS 1-4 & 16-19 ARE NOT USED



REV. BY	DATE	DESCRIPTION
SEA	6-5-17	DISPLAYED TEMPORARY R/W
SEA	6-1-17	REMOVED 12-S, REVISED 12-T

DATE COMPLETED 4/17/2017

PID NO. 97898

R/W DESIGNER SEA
R/W REVIEWER JCD

PROPERTY MAP

MIA-LOONEY/ GARBRY RNDBT

4 / 9

65 / 70

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TOTAL NUMBER OF :

6 OWNERSHIPS — 1 TOTAL TAKES

13 PARCELS — 0 OWNERSHIPS W/ STRUCTURES INVOLVED

ALL AREAS IN ACRES

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

NET TAKE = GROSS TAKE - PRO IN TAKE

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE CITY OF PIQUA UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1-4	NOT USED																
5-WD	BUCKEYE STATE MUTUAL INSURANCE COMPANY	4, 6 - 7	638	598	N44-072892	6.662	0.823	1.000	0.823	0.177		5.662			1146 SQ FT OF LANDSCAPE AREA W/3 TREES & 8 BUSHES E1 E2		
			638	600	N44-072890	0.340	0.069	0.094	0.069	0.025		0.246			TO BE REMOVED		
			644	806													
	TOTAL WD					7.002	0.892	1.094	0.892	0.202		5.908			* 90 SQ FT OF LANDSCAPED AREA		
5-S1		4, 6 - 7			N44-072890			0.031	0.000	0.031					PROPOSED SEWER EASEMENT E3		
5-S2		4, 6 - 7			N44-072892			0.007	0.000	0.007					PROPOSED SEWER EASEMENT		
5-T		4, 6 - 7			N44-072892			0.158	0.000	0.158					FOR GRADING E4 E5		
					N44-072890			0.076	0.000	0.076							
	TOTAL T							0.234	0.000	0.234							
6-WD	DOROTHY JANE DENNIS LEWIS (1/2 INT.)	4, 8 - 9	636	313	N44-072880	1.009	1.009	1.009	1.009	0.000			0	TO BE DETERMINED	PARCEL IS CONTAINED WITHIN THE EXISTING R/W OF LOONEY RD E6		
	RICHARD ARTHUR LEWIS (1/10 INT.)		646	21											RECORD AREA IS CALCULATED		
	DENNIS ROBERT LEWIS (1/10 INT.)														TOTAL TAKE		
	SUZANNE LEWIS ORTON (1/10 INT.)																
	JANE ANN LEWIS GOULDEN (1/10 INT.)																
	THOMAS DAVID LEWIS (1/10 INT.)																
7-WD	ADVANCED AGRI-SOLUTIONS CO-OP, INC.	4, 8 - 9	OR 114	272	N44-072845	2.068	0.200	0.303	0.200	0.103		1.765			* 13 SQ FT OF LANDSCAPED AREA & 2' OF LS WALL E7		
7-T		4, 8 - 9						0.040	0.000	0.040					FOR GRADING & TO CONCTRUCT A DRIVE E8		
8	GLADYS C. ROTH	4, 8 - 9	OR 2014	12225	N44-072835	1.652	0.163								NO R/W REQUIRED		
9	DRK HOLDINGS LIMITED	4	761	682	N44-078714	0.750	0.000								NO R/W REQUIRED		
10-WD	AARON LEROY FEATHERS AND SAUNDRA L. FEATHERS	4, 6 - 7	511	200	N44-077662	5.000	0.174	0.181	0.174	0.007			4.819		235' OF FENCE TO BE REMOVED		
															* 170' OF BOX WIRE FENCE WITH WOODEN SUPPORT POSTS		
10-T		4, 6 - 7						0.047	0.000	0.047					FOR GRADING, TO REMOVE A FENCE AND TREE		
11-WD	CITY OF PIQUA	4, 6 - 7	650	730	N44-251015	0.530	0.000	0.127	0.000	0.127		0.403					
11-T		4, 6 - 7						0.009	0.000	0.009					FOR GRADING		
12-WD	WINDERMERE WOODS, L.L.C.	4, 8 - 9	753	109	N44-078594	4.251	0.000	0.074	0.000	0.074			4.177		* 65 SQ FT OF LANDSCAPED AREA		
12-T		4, 8 - 9						0.098	0.000	0.098					FOR GRADING		
13	DORIS McMILLAN, TRUSTEE	4, 8 - 9	751	590	N44-078570	0.961	0.115								* 19 SQ FT OF LANDSCAPED AREA		
					N44-078572	1.604	0.082										
14	JAMES E. SPAW	4	OR 338	409	N44-077720	4.707	0.171								NO R/W REQUIRED		
15	RELATED DEVELOPMENTS LIMITED	4	753	682	N44-072830	2.727	0.000								NO R/W REQUIRED		

NOTE:
ALL TEMPORARY PARCELS TO BE OF 18 MONTH DURATION.

UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

PARCEL IDENTIFIER LEGEND:
WD = WARRANTY DEED
S = SEWER EASEMENT
T = TEMPORARY EASEMENT

E1 0.030 AC OVERLAP OF 10' STORM SEWER EASEMENT CITY OF PIQUA, OHIO DB 647, PG 458

E2 0.016 AC OVERLAP OF 5' COMMUNICATION EASEMENT THE OHIO BELL COMPANY DB 518, PG 627

E3 0.010 AC OVERLAP OF 10' STORM SEWER EASEMENT CITY OF PIQUA, OHIO DB 647, PG 458

E4 0.004 AC OVERLAP OF 10' STORM SEWER EASEMENT CITY OF PIQUA, OHIO DB 647, PG 458

E5 0.003 AC OVERLAP OF 5' COMMUNICATION EASEMENT THE OHIO BELL COMPANY DB 518, PG 627

E6 0.005 AC OVERLAP OF 5' COMMUNICATION EASEMENT THE OHIO BELL COMPANY DB 518, PG 627

E7 0.011 AC OVERLAP OF 5' COMMUNICATION EASEMENT THE OHIO BELL COMPANY DB 518, PG 627

E8 0.003 AC OVERLAP OF 5' COMMUNICATION EASEMENT THE OHIO BELL COMPANY DB 518, PG 627

* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION
SEA	6-5-17	ADDITIONAL SHEET NUMBERS FOR T PARCELS
SEA	6-1-17	REMOVED 12-S, REVISED 12-T, UPDATED TOTAL PARCEL NUMBER

FIELD REVIEW BY RSH DATE: 4-17-2017

OWNERSHIP VERIFIED BY SEA DATE: 4-13-2017

DATE COMPLETED 4/17/2017

FEDERAL PROJECT NO. E140974

PID NO. 97898

STATE JOB NO. 470211

R/W DESIGNER SEA

R/W REVIEWER JCD

SUMMARY OF ADDITIONAL RIGHT OF WAY

MIA-LOONEY/ GARBRY RNDBT

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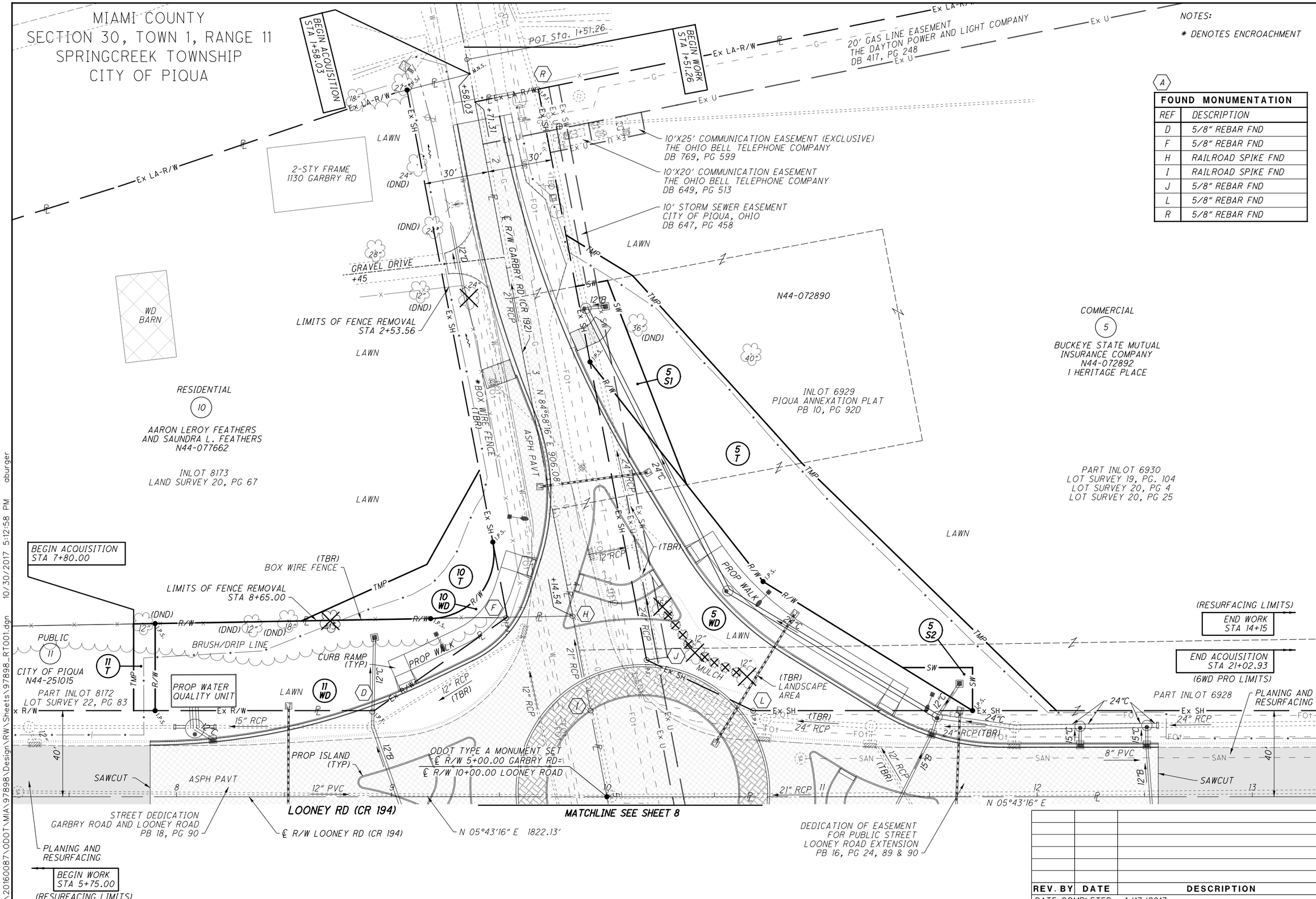
MIAMI COUNTY
SECTION 30, TOWN 1, RANGE 11
SPRINGCREEK TOWNSHIP
CITY OF PIQUA

NOTES:

* DENOTES ENCROACHMENT

FOUND MONUMENTATION	
REF	DESCRIPTION
D	5/8" REBAR FND
F	5/8" REBAR FND
H	RAILROAD SPIKE FND
I	RAILROAD SPIKE FND
J	5/8" REBAR FND
L	5/8" REBAR FND
R	5/8" REBAR FND



REV. BY	DATE	DESCRIPTION

DATE COMPLETED 4/17/2017

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 97898

R/W DESIGNER SEA
R/W REVIEWER JCD

RIGHT OF WAY TOPO SHEET
STA 1+50.00 TO STA 5+00.00

MIA-LOONEY/
GARBRY RNDBT

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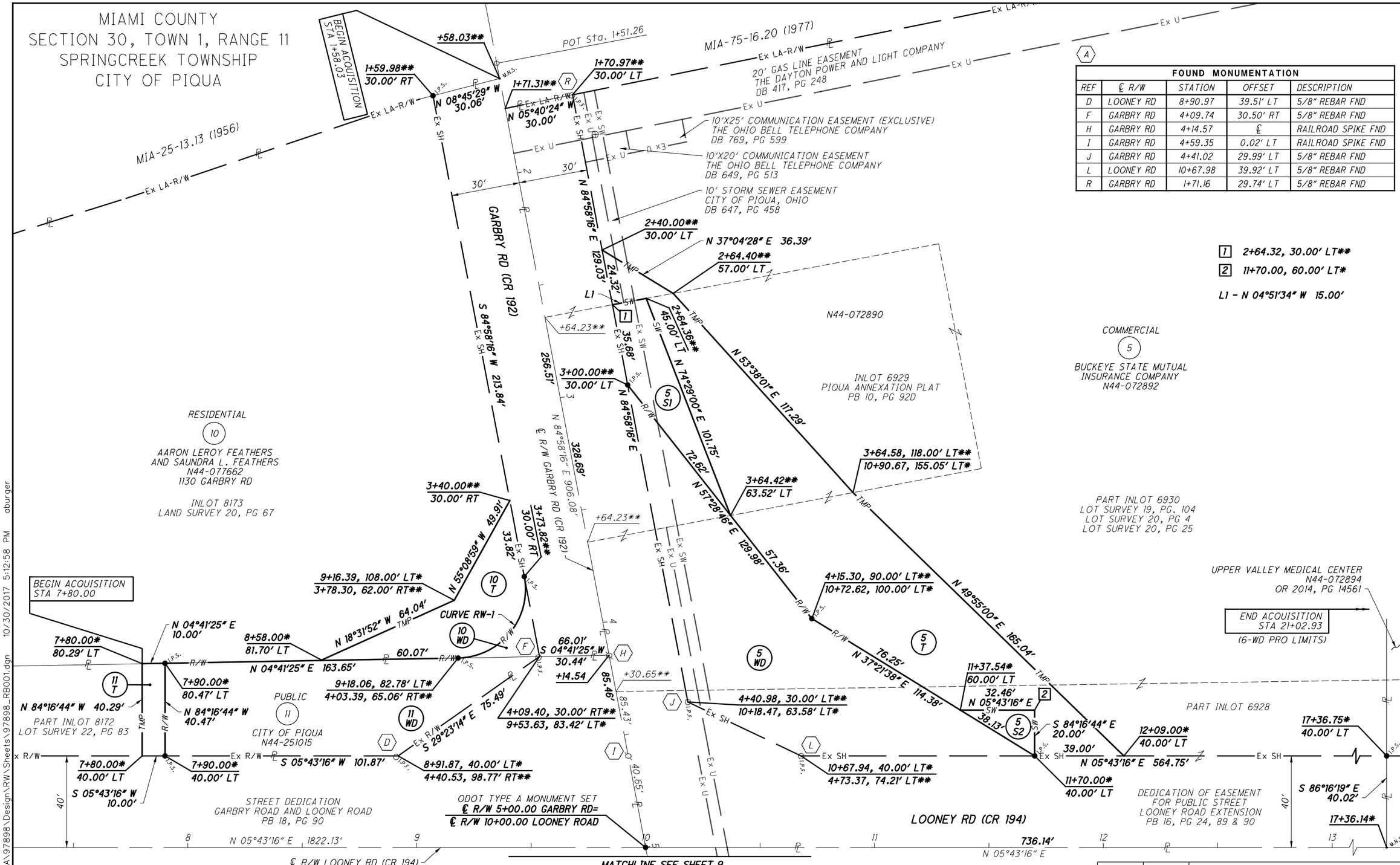
MIAMI COUNTY
SECTION 30, TOWN 1, RANGE 11
SPRINGCREEK TOWNSHIP
CITY OF PIQUA



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FOUND MONUMENTATION				
REF	℄ R/W	STATION	OFFSET	DESCRIPTION
D	LOONEY RD	8+90.97	39.51' LT	5/8" REBAR FND
F	GARBRY RD	4+09.74	30.50' RT	5/8" REBAR FND
H	GARBRY RD	4+14.57	℄	RAILROAD SPIKE FND
I	GARBRY RD	4+59.35	0.02' LT	RAILROAD SPIKE FND
J	GARBRY RD	4+41.02	29.99' LT	5/8" REBAR FND
L	LOONEY RD	10+67.98	39.92' LT	5/8" REBAR FND
R	GARBRY RD	1+71.16	29.74' LT	5/8" REBAR FND

1 2+64.32, 30.00' LT**
2 11+70.00, 60.00' LT*

L1 - N 04°51'34" W 15.00'

NOTES:

THE PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE EXISTING ℄ OF R/W OF LOONEY RD (CR 194) OR THE EXISTING ℄ OF R/W OF GARBRY RD (CR 192).

* STATION & OFFSET FROM THE ℄ R/W OF LOONEY RD
** STATION & OFFSET FROM THE ℄ R/W OF GARBRY RD

RIGHT OF WAY CURVE DATA

CURVE	Δ	RADIUS	LENGTH	CHORD	CH BEARING
RW-1	99°43'09"	30.00'	52.21'	45.87'	N 45°10'10" W

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 4/17/2017

N

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 97898

R/W DESIGNER SEA
R/W REVIEWER JCD

RIGHT OF WAY BOUNDARY SHEET
STA 1+50.00 TO STA 5+00.00

MIA-LOONEY/ GARBRY RNDBT

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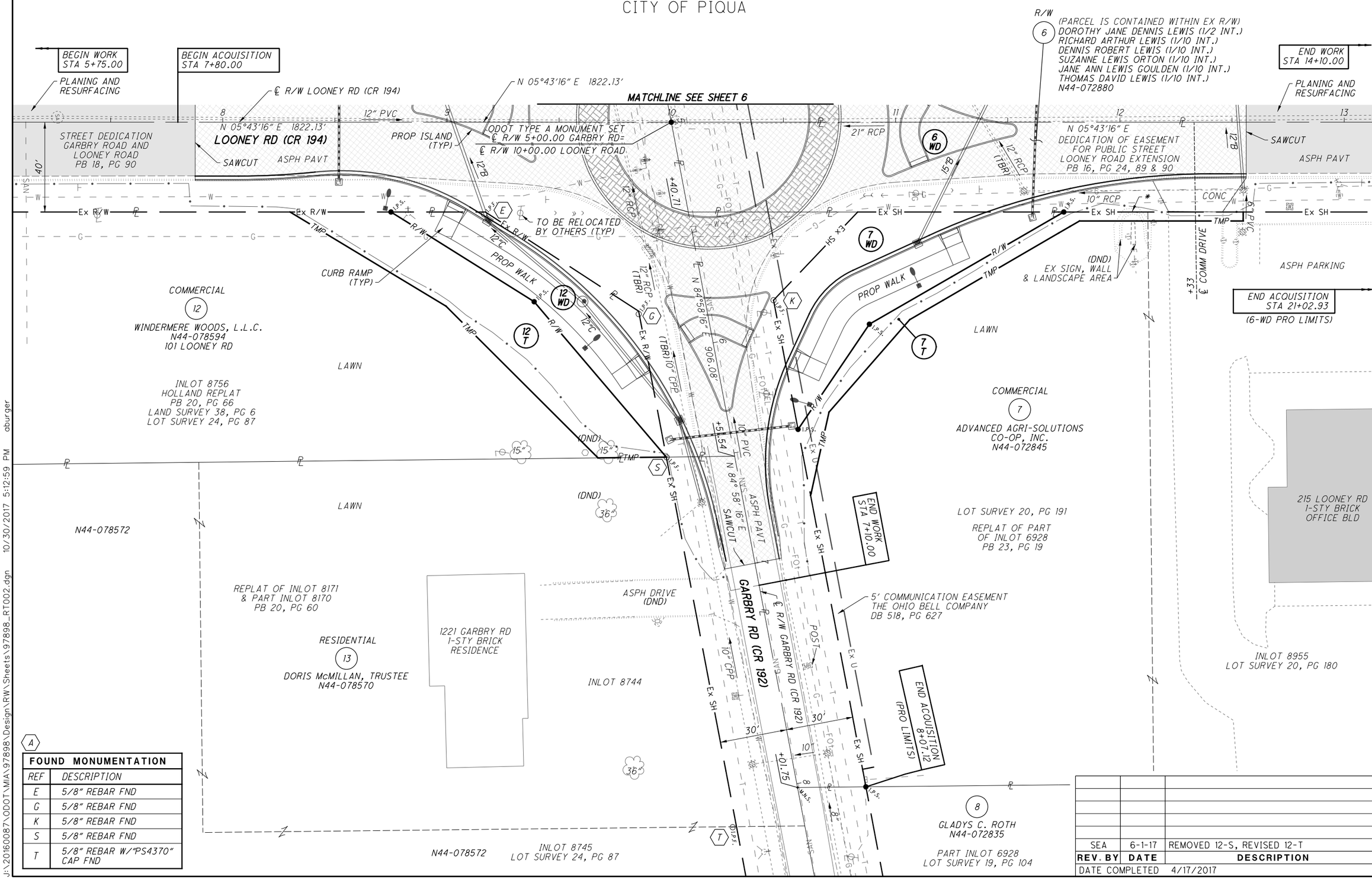
MIAMI COUNTY
SECTION 30, TOWN 1, RANGE 11
SPRINGCREEK TOWNSHIP
CITY OF PIQUA

NOTES:
* DENOTES ENCROACHMENT



FOUND MONUMENTATION	
REF	DESCRIPTION
E	5/8" REBAR FND
G	5/8" REBAR FND
K	5/8" REBAR FND
S	5/8" REBAR FND
T	5/8" REBAR W/"PS4370" CAP FND

REV. BY	DATE	DESCRIPTION
SEA	6-1-17	REMOVED 12-S, REVISED 12-T

DATE COMPLETED 4/17/2017

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 97898

R/W DESIGNER SEA
R/W REVIEWER JCD

RIGHT OF WAY TOPO SHEET
STA 5+00.00 TO STA 8+42.00

MIA-LOONEY/
GARBRY RNDBT

8 / 9

69
70

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MIAMI COUNTY
SECTION 30, TOWN 1, RANGE 11
SPRINGCREEK TOWNSHIP
CITY OF PIQUA

NOTES:

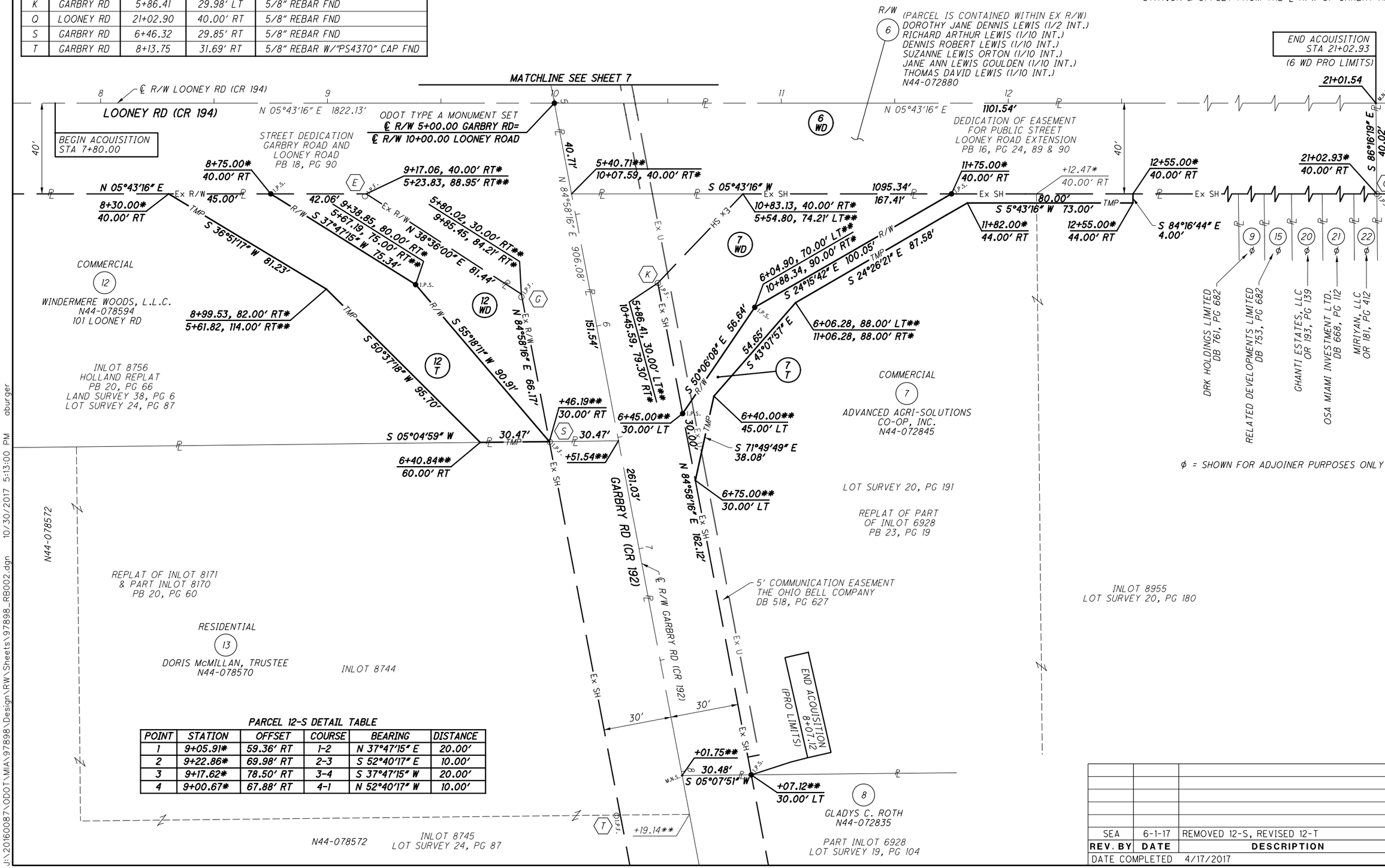
THE PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE EXISTING ℄ OF R/W OF LOONEY RD (CR 194) OR THE EXISTING ℄ OF R/W OF GARBRY RD (CR 192).

* STATION & OFFSET FROM THE ℄ R/W OF LOONEY RD
** STATION & OFFSET FROM THE ℄ R/W OF GARBRY RD

(A)

FOUND MONUMENTATION

REF	℄ R/W	STATION	OFFSET	DESCRIPTION
E	LOONEY RD	9+16.54	41.07' RT	5/8" REBAR FND
G	GARBRY RD	5+81.27	30.21' RT	5/8" REBAR FND
K	GARBRY RD	5+86.41	29.98' LT	5/8" REBAR FND
Q	LOONEY RD	21+02.90	40.00' RT	5/8" REBAR FND
S	GARBRY RD	6+46.32	29.85' RT	5/8" REBAR FND
T	GARBRY RD	8+13.75	31.69' RT	5/8" REBAR W/"PS4370" CAP FND



PARCEL 12-S DETAIL TABLE

POINT	STATION	OFFSET	COURSE	BEARING	DISTANCE
1	9+05.91*	59.36' RT	1-2	N 37°47'15" E	20.00'
2	9+22.86*	69.98' RT	2-3	S 52°40'17" E	10.00'
3	9+17.62*	78.50' RT	3-4	S 37°47'15" W	20.00'
4	9+00.67*	67.88' RT	4-1	N 52°40'17" W	10.00'

REV. BY	DATE	DESCRIPTION
SEA	6-1-17	REMOVED 12-S, REVISED 12-T

DATE COMPLETED 4/17/2017

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 97898

R/W DESIGNER SEA
R/W REVIEWER JCD

RIGHT OF WAY TOPO SHEET
STA 5+00.00 TO STA 8+42.00

MIA-LOONEY/
GARBRY RNDBT

9 / 9

70 / 70

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