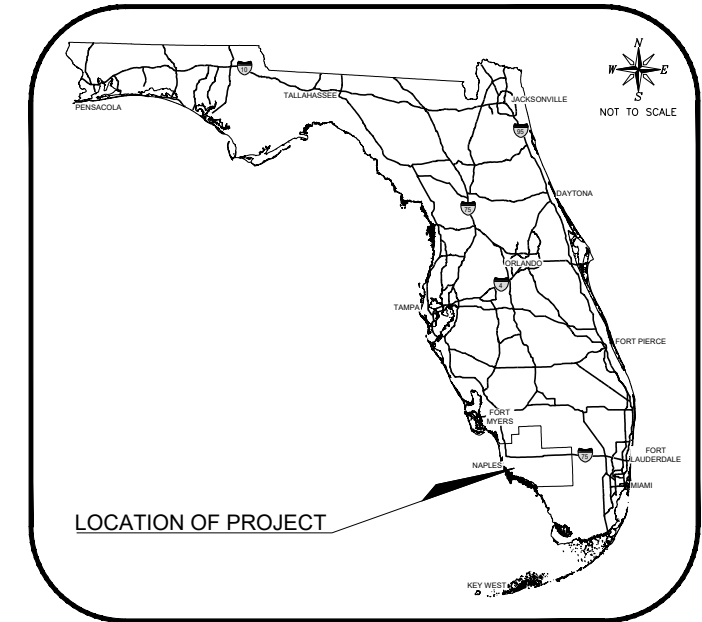


# CONTRACT PLANS

## LANDSCAPE PLANS (100%)



### Index of Landscape Plans

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LS-3 - LS-6	DEMOLITION PLAN (1) to DEMOLITION PLAN (4)
LS-7	PLANT SCHEDULE & LEGEND
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ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALE DATA.

#### GOVERNING DESIGN STANDARDS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2018-19 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRs ARE AVAILABLE AT THE FOLLOWING WEBSITE:  
<http://www.fdot.gov/roadway/design/standardplans>.

#### GOVERNING STANDARD SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

#### Prepared by:



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 Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151 Business LC 26000266  
 Bonita Springs: 239.947.1144 [www.GradyMinor.com](http://www.GradyMinor.com) Fort Myers: 239.690.4380

O. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134

CITY OF NAPLES PROJECT MANAGER: GREGG STRAKALUSE, P.E.

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

<u>Revisions</u>			
Revision	Date	Description	By

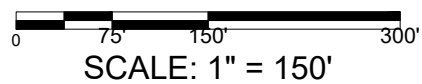
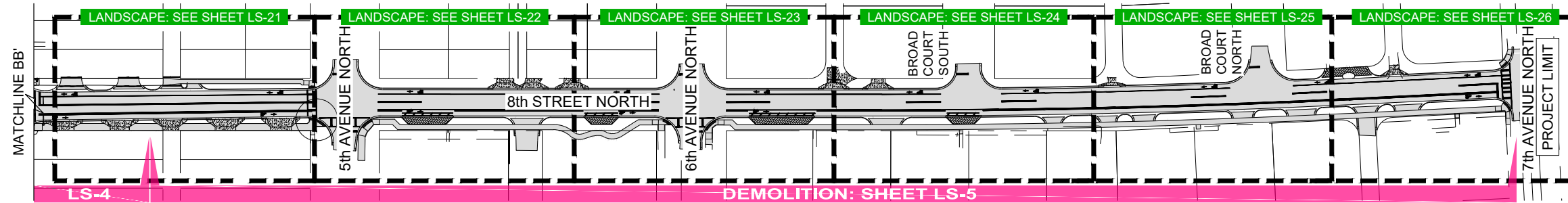
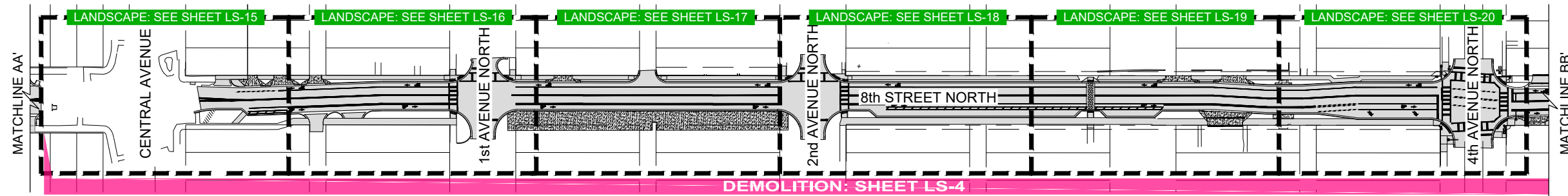
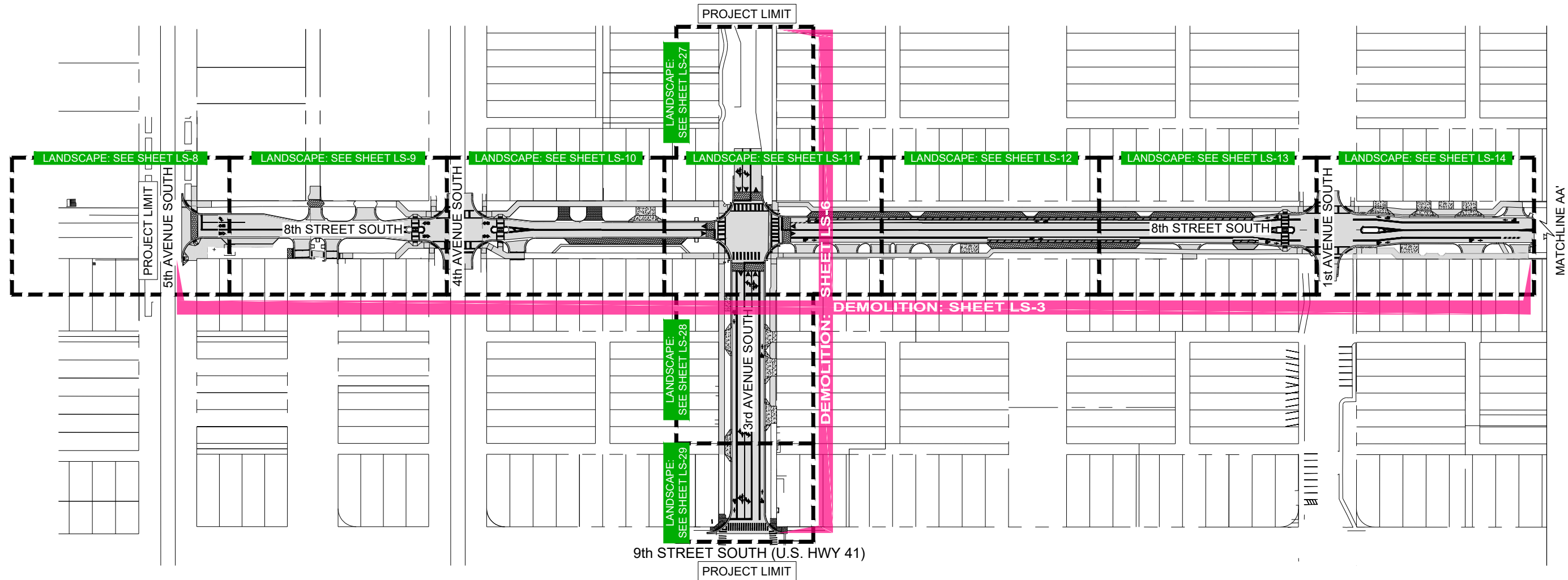
100% PLANS

DATE: AUGUST, 2018  
 FILE NAME: CN007-LA.DWG  
 JOB CODE: CN007  
 DRAWING NUMBER: LS-1 OF 34

SUBMITTAL  
 100%

8th Street Improvements





Revision	Date	Description	By

DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 150'



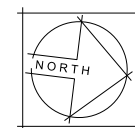
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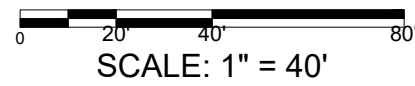
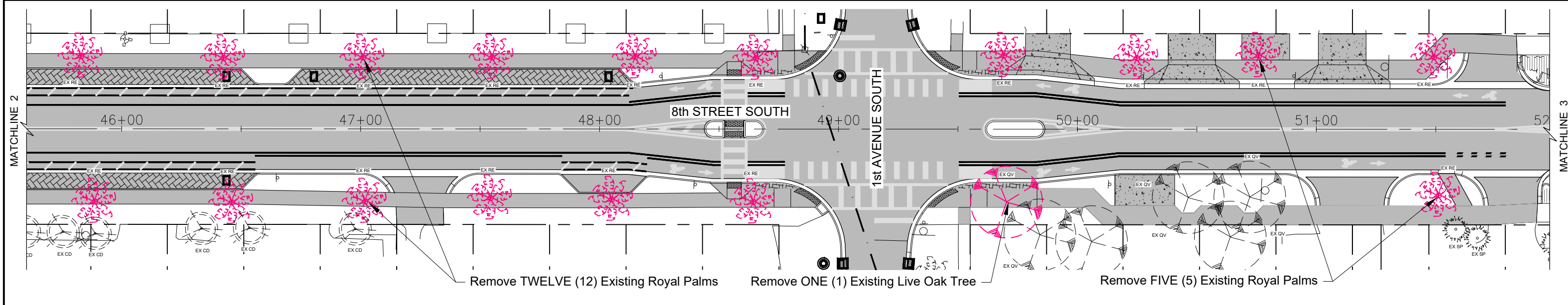
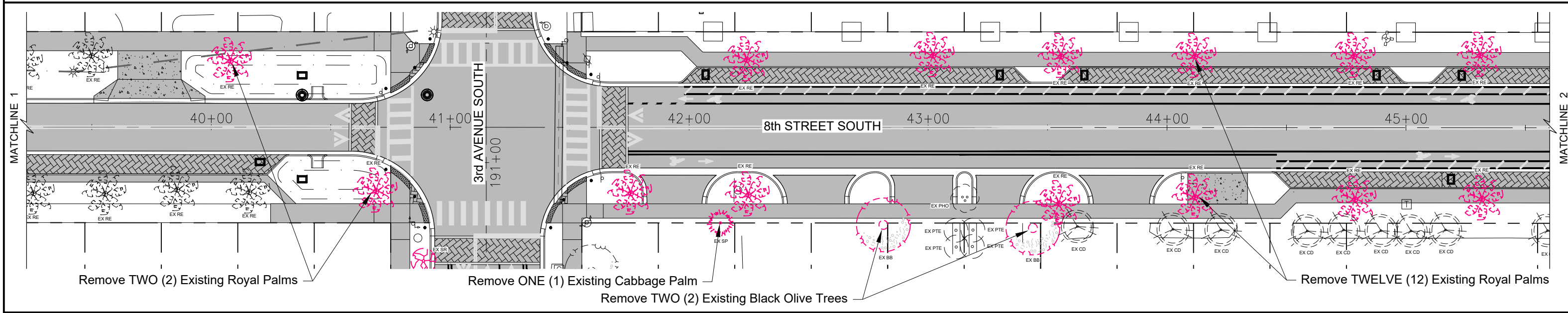
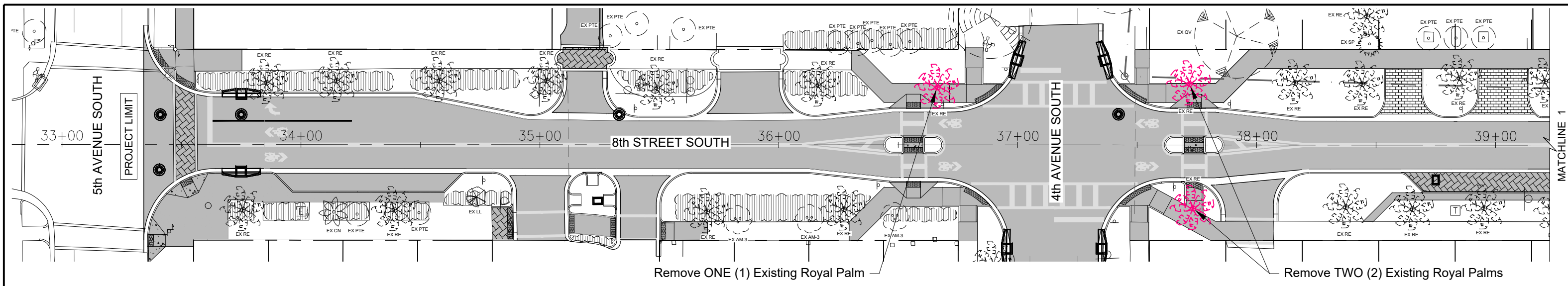
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 Bonita Springs, Florida 34134

*8th Street Improvements*

PROJECT KEY MAP



MUNICIPALITY:	CITY OF NAPLES
SECT/TWNRGE:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEET LS-2 OF 34	

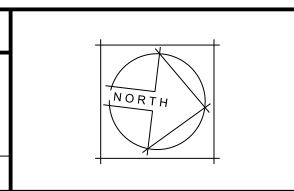


Revision	Date	Description	By

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 APPROVED: D.N.  
 JOB CODE: CN007  
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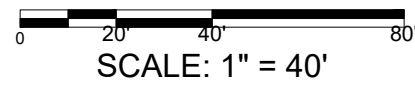
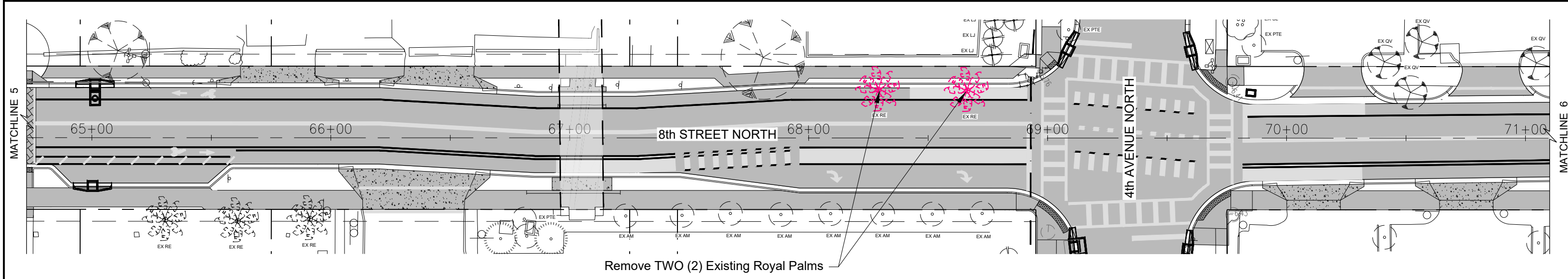
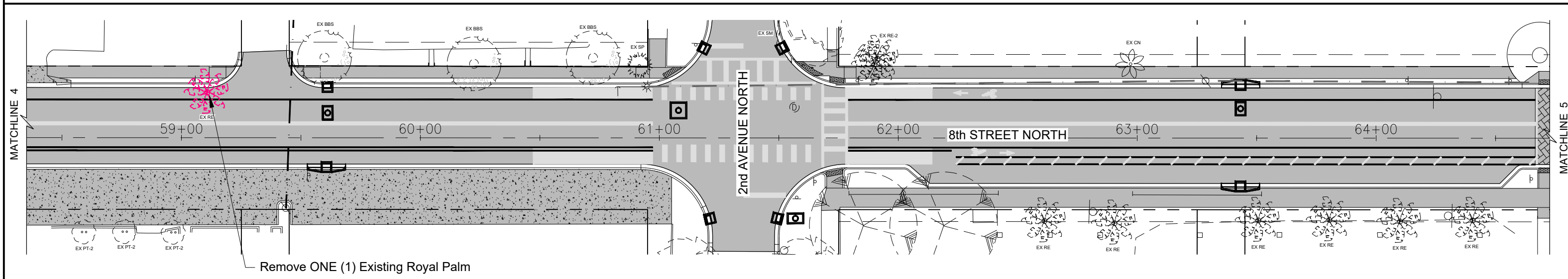
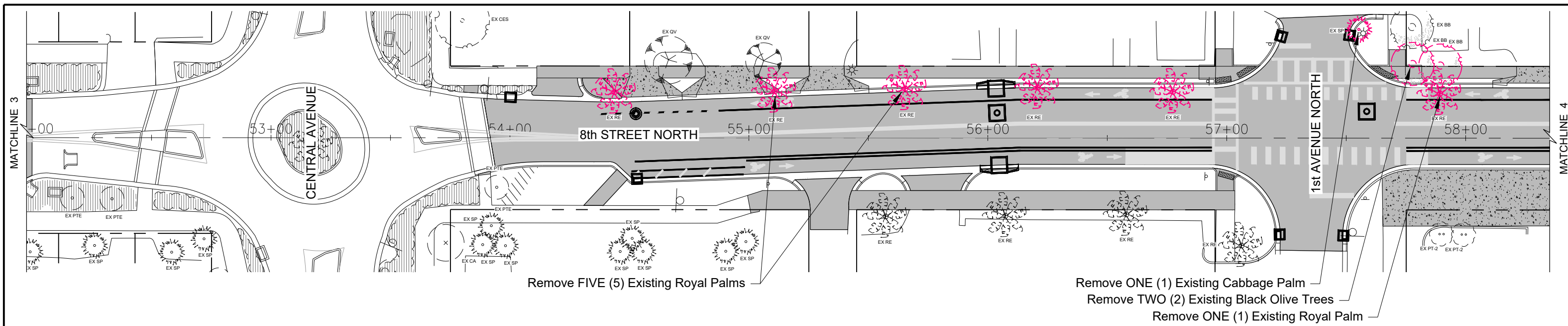
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**8th Street Improvements**  
 DEMOLITION PLAN (1)



MUNICIPALITY: CITY OF NAPLES  
 SECT/WN/RGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-3 OF 34

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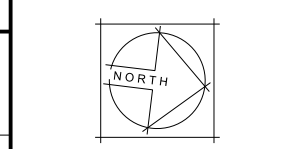


Revision	Date	Description	By

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 APPROVED: D.N.  
 JOB CODE: CN007  
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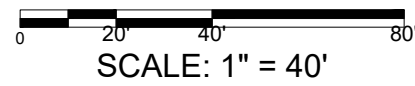
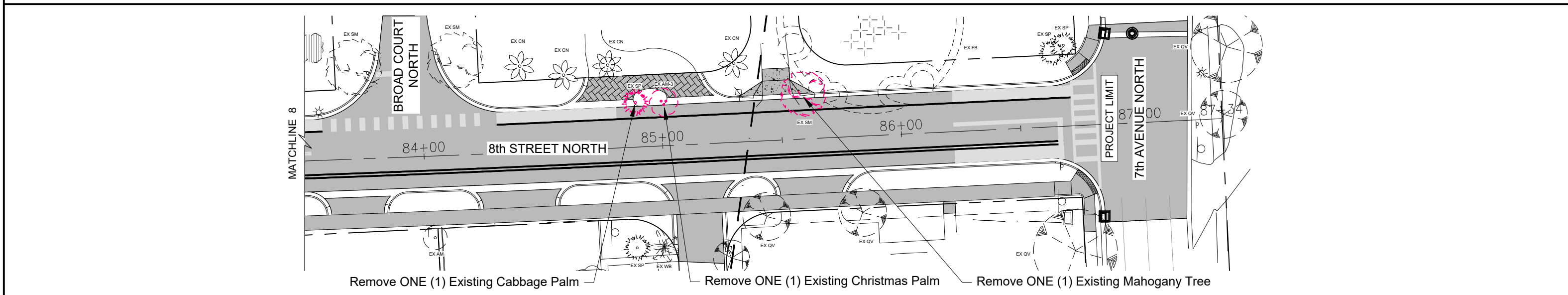
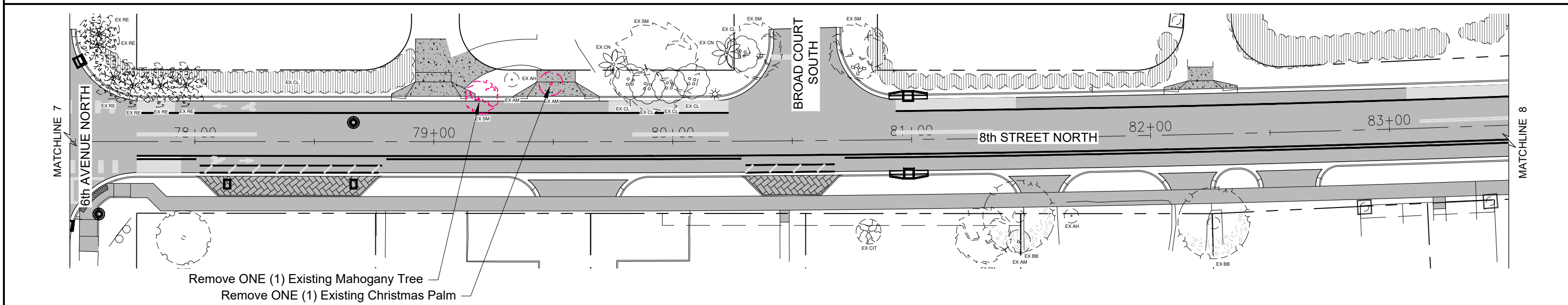
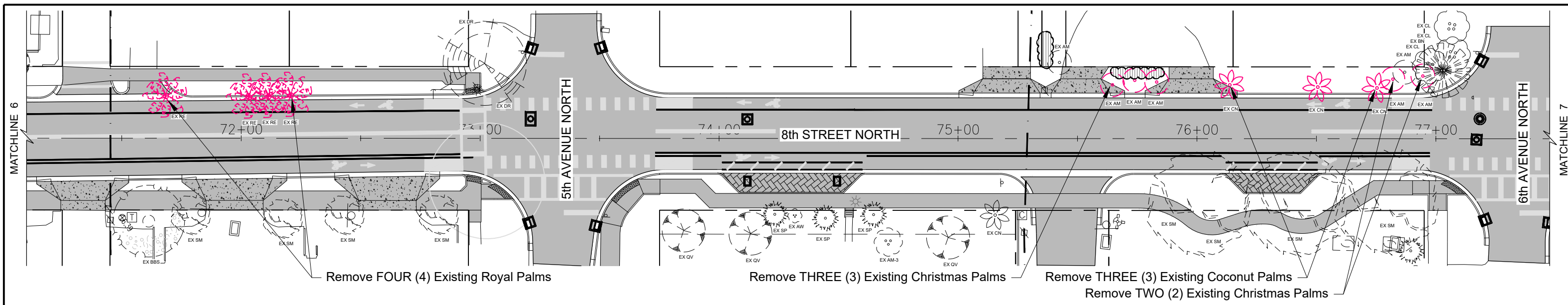
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**8th Street Improvements**  
 DEMOLITION PLAN (2)



MUNICIPALITY: CITY OF NAPLES  
 SECT/TWR/GR: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-4 OF 34

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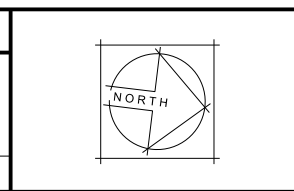
Revision	Date	Description	By

DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 40'

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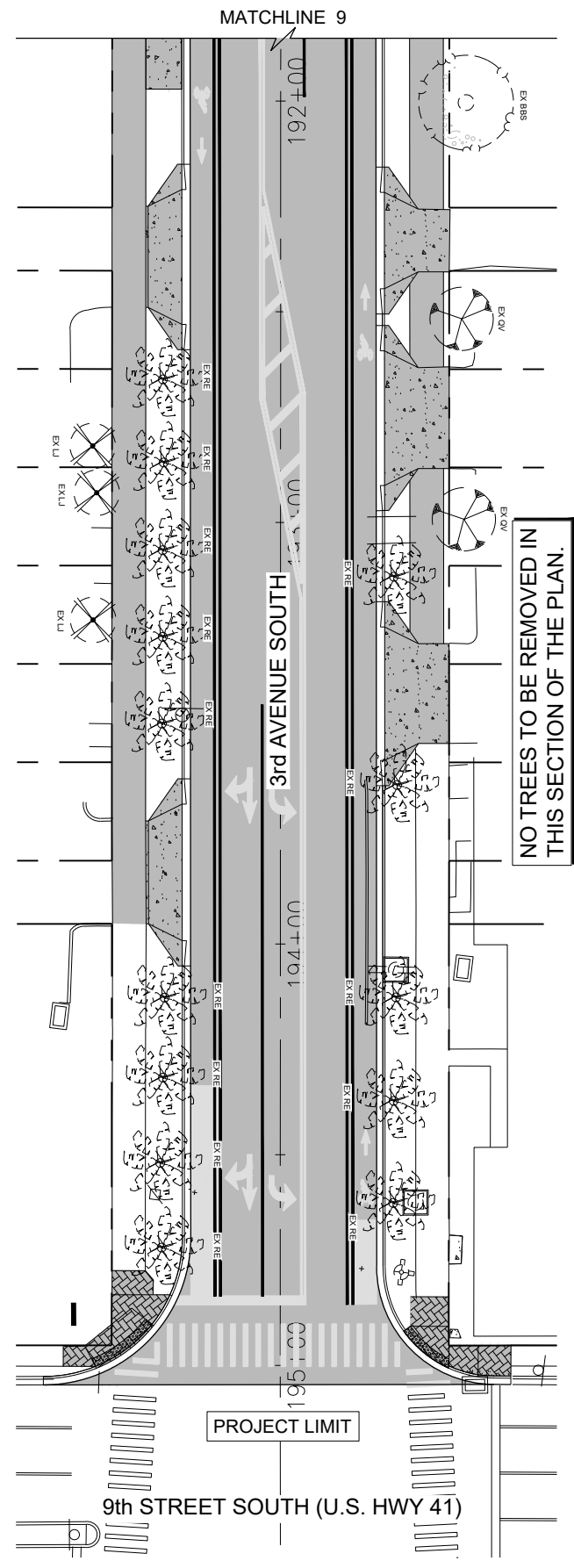
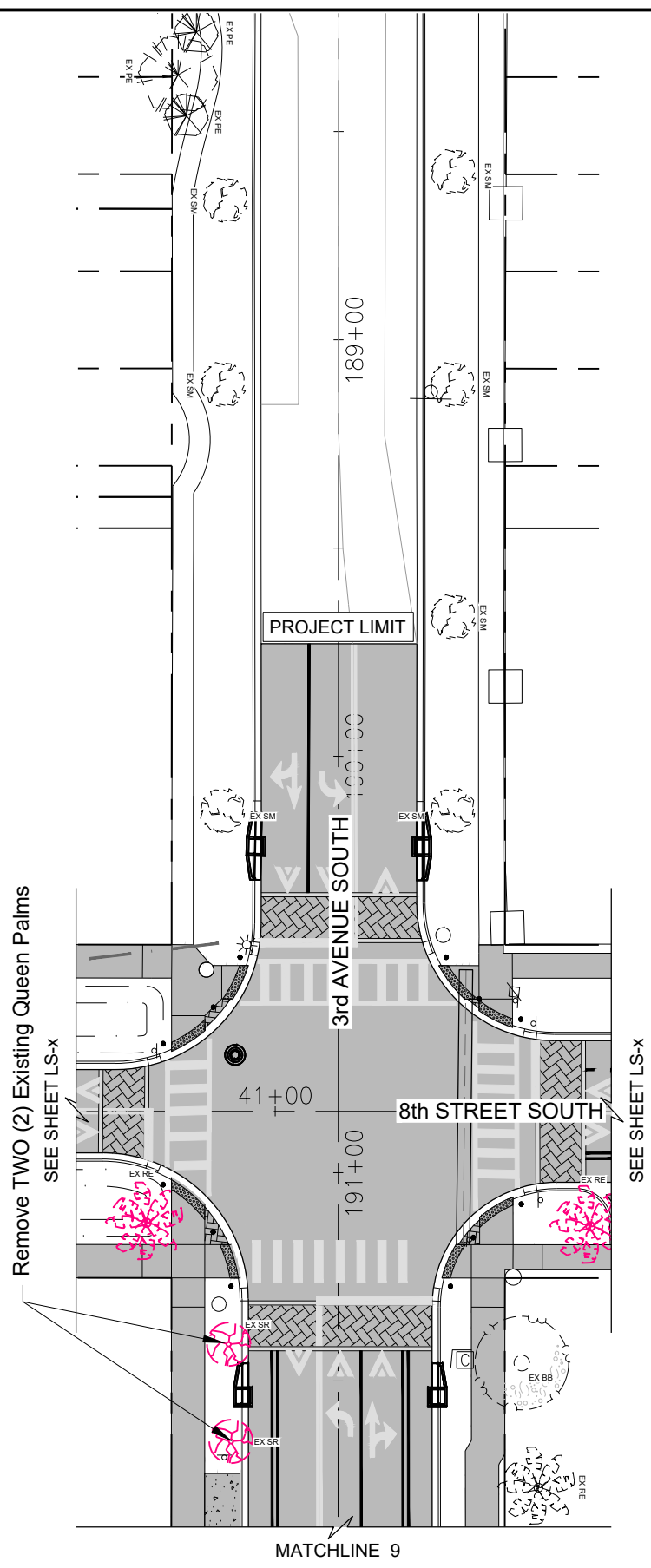
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**8th Street Improvements**  
 DEMOLITION PLAN (3)



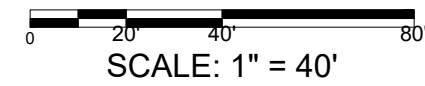
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 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-5 OF 34

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**TREE REMOVAL LEGEND:**

SYMBOL	QUANTITY	CODE	BOTANICAL NAME	COMMON NAME
	- 4	EX BBS	Bucida buceras 'SL'	Shady Lady Black Olive Tree
	- 2	EX SM	Swietenia mahogoni	Mahogany Tree
	- 1	EX QV	Quercus virginiana	Live Oak Tree
	- 6	EX AM	Adonidia merrillii	Christmas Palm Single Trunk
	- 1	EX AM3	Adonidia merrillii	Christmas Palm Triple Trunk
	- 2	EX CN	Cocos nucifera	Coconut Palm
	- 47	EX RE	Roystonea regia	Royal Palm
	- 3	EX SP	Sabal palmetto	Cabbage Palm
	- 2	EX SR	Syagrus romanzoffiana	Queen Palm



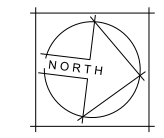
Revision	Date	Description	By

DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 40'

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 Bonita Springs, Florida 34134

**8th Street Improvements**  
 DEMOLITION PLAN (4)






MUNICIPALITY:	CITY OF NAPLES
SECT/TWR/RGE:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEET LS-6 OF 34	

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

**PLANT SCHEDULE : 8TH STREET (PHASE I and II)**


TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	HT. AND SPR.	CAL	SPEC.
	BB	52	Bucida buceras	Shady Lady Black Olive	14'-16' Ht. x 7' Spr.	4" cal. min.	Fully Branched Crown
	CL	16	Chrysalidocarpus lutescens	Areca Palm	25 gal	6' Ht.	60" O.C.
	TP	3	Tabebuia pallida	Pink Tabebuia	10' - 12' Ht. Min.	1.75" cal. min.	Full Specimen
	TD	8	Taxodium distichum	Bald Cypress	10' - 12' Ht. Min.	3" cal. min.	4'-5' full spr.

PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	HT. AND SPR.	CAL	SPEC.
	RR	7	Roystonea regia	Royal Palm	8' gw	Heavy	Straight trunk, Matching
	VM	70	Veitchia montgomeryana	Montgomery Palm	14'-16' Ht.	6' G.W.	Heavy cal.
	WB	7	Wodyetia bifurcata	Foxtail Palm	14' Ht.	3' GW	Single







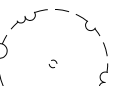
















SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HT. AND SPR.	SPACING
	AEC	27	Aechmea blanchetiana	Orange Bromeliad	15 gal. min.	30" ht. min, 24"spd.	48" oc
	BOU	83	Bougainvillea x Silhouette	Silhouette Bougainvillea	3 gal	18"-24" ht. min.	36" O.C.
	CHR	60	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	3 gal. min.	18"-24" ht. min.	36" O.C.
	CLU	55	Clusia guttifera	Small leaf Clusia	15 gal. min.	5' ht. min.	42" oc
	DIA	342	Dianella tasmanica var. 'Blushy'	Varigated Flax Lily	3 gal	18" ht min.	36" oc
	IVS	68	Ilex vomitoria 'Stokes Dwarf'	Stokes Dwarf Yaupon Holly	3 gal	18"-24" ht. min.	24" o.c.
	IXO	224	Ixora taiwanese x 'Red Dwarf'	Red Dwarf Ixora	3 gal. min.	12" - 15" ht.	18" oc
	RAP	8	Raphiolepis indica alba	White Indian Hawthorn	3 gal	18"-24" ht. min.	

SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HT. AND SPR.	SPACING
	AGA	28	Agapanthus africanus 'Brilliant Blue'	Brilliant Blue Lily of the Nile	3 gal	12" Ht. x Spr.	24" o.c.
	FIM	307	Ficus microcarpa 'Green Island'	Green Island Ficus	3 gal	12" Ht. x 12" Spr.	30" o.c.
	LIR	4,162	Liriope muscari 'Emerald Goddess'	Emerald Goddess Liriope	1 gal.	12" Ht. x Spr.	18" o.c.
	MUH	141	Muhlenbergia capillaris	Pink Muhly	3 gal	18"-24" ht.	36" o.c.

GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HT. / SPR. / SPEC.	SPACING
	ARA	6,710	Arachis pintoi 'Golden Glory'	Golden Glory Perennial Peanut	1 gal.	4" ht, 6" spd	12" o.c.
	TRA	4,306	Trachelospermum asiaticum 'Asiatic'	Asiatic Jasmine	1 gal min.	8" - 10" ht	18" o.c.

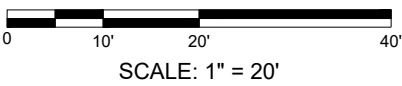
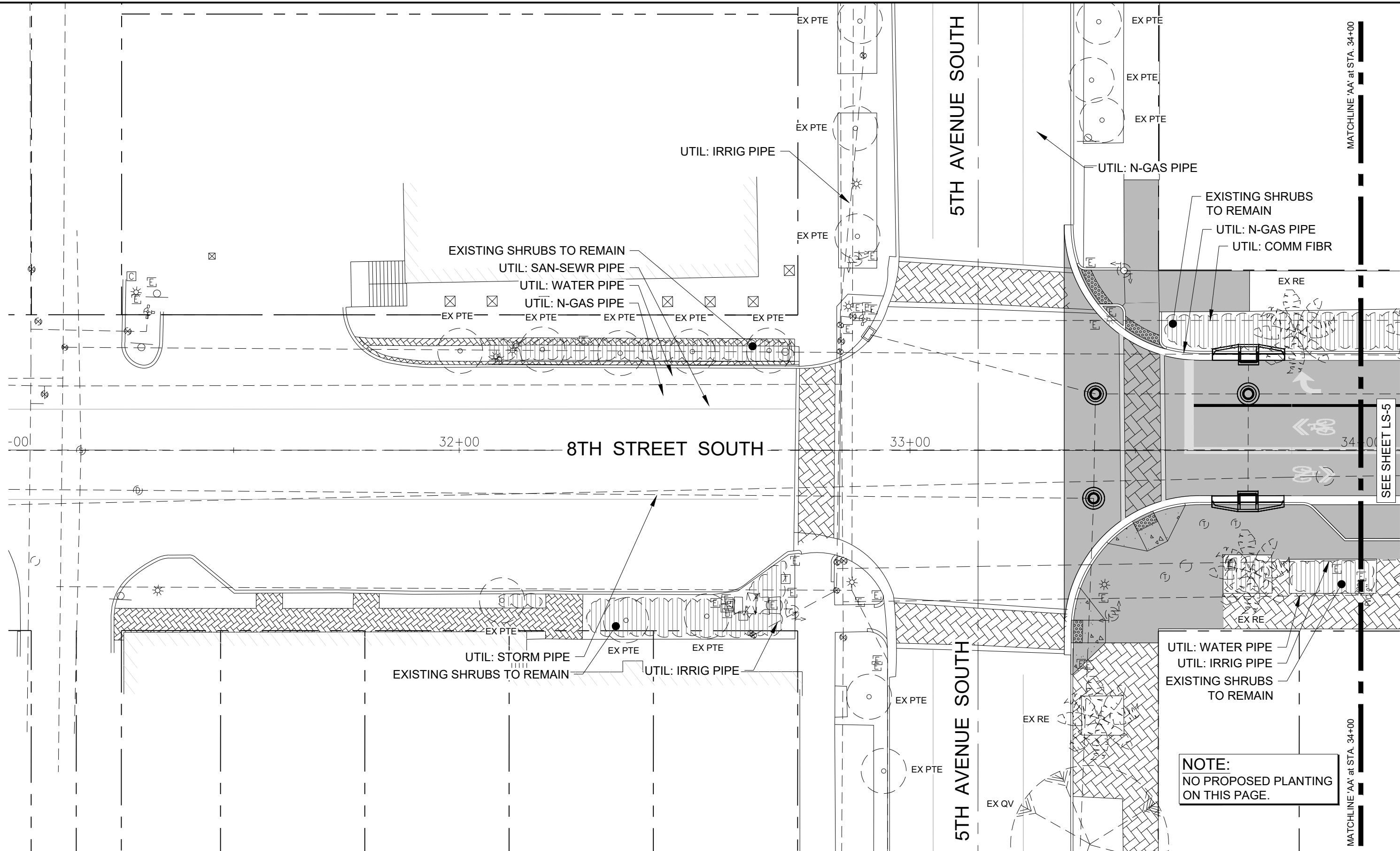
SOD AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	SOD	33,381 sf	Stenotaphrum secundatum 'Floritam'	Floritam St. Augustine Sod	Sod
<b>MULCH</b>	MULCH	TBD	FORESTRY SERVICES OR OLD FLORIDA BLEND MULCH, OR APPROVED OTHER HARDWOOD MULCH NO CYPRESS MULCH PERMITTED, SHREDDED, 3" THICK, ALL PLANT BEDS AND TREES RINGS (4") DIAMETER WITHIN SOD BEDS. CONTRACTOR TO SUBMIT QUANTITIES.		

**EXISTING PLANT LEGEND:**

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SYMBOL	CODE	BOTANICAL NAME	COMMON NAME
	EX BBS	Bucida buceras 'SL'	Shady Lady Black Olive Tree		EX AM-3	Adonidia merrillii	Christmas Palm
	EX CA	Cupaniopsis anacardioides	Carrotwood Tree (located beyond R.O.W.)		EX PHO	Phoenix roebelenii	Pygmy Date Palm Triple Trunk
	EX CD	Coccoloba diversifolia	Pigeon Plum Tree		EX BN	Bismarckia nobilis	Bismarck Palm
	EX CES	Conocarpus erectus sericeus	Silver Buttonwood Tree		EX CL	Chrysalidocarpus lutescens	Areca Palm Multi-Trunk
	EX DR	Delonix regia	Royal Poinciana Tree		EX CN	Cocos nucifera	Coconut Palm
	EX FB	Ficus benjamina	Ficus Tree		EX PT-2	Ptychosprema elegans	Alexander Palm Double Trunk
	EX LJ	Ligustrum japonicum	Japanese Privet Tree		EX AM	Adonidia merrillii	Christmas Palm
	EX LL	Lysiloma latisiliquum	Wild Tamarind Tree		EX PTE	Ptychosprema elegans	Alexander Palm Single Trunk
	EX QV	Quercus virginiana	Live Oak Tree		EX RE	Roystonea elata	Royal Palm
	EX SM	Swietenia mahogoni	Mahogany Tree		EX SP	Sabal palmetto	Cabbage Palm
					EX SR	Syagrus romanzoffiana	Queen Palm
					EX WB	Wodyetia bifurcata	Foxtail Palm
					EX WR	Washingtonia robusta	Washingtonia Palm

DESIGNED BY:	D.N.	 <b>GradyMinor</b>	Q. Grady Minor and Associates, P.A. 3800 Via Del Rey Bonita Springs, Florida 34134		<i>8th Street Improvements</i>			
DRAWN BY:	tpb-18		Civil Engineers • Land Surveyors • Planners • Landscape Architects		<b>PLANT SCHEDULE &amp; LEGEND</b>			
APPROVED:	D.N.		Cert. of Auth. EB 0005151    Cert. of Auth. LB 0005151		MUNICIPALITY: CITY OF NAPLES			
JOB CODE:	CN007		Bonita Springs: 239.947.1144    www.GradyMinor.com    Fort Myers: 239.690.4380		SEC/TWNRGE: 3449S & 3/50S/25E			
SCALE:	n/a				DATE: AUGUST, 2018			
Revision	Date	Description	By	SUBMITTAL TYPE: CONTRACT PLANS, 100%				
				SHEET LS-7 OF 34				

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Revision	Date	Description	By

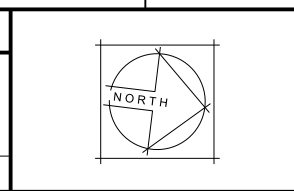
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 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'

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*8th Street Improvements*

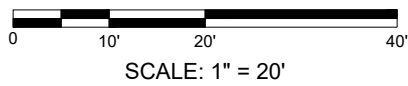
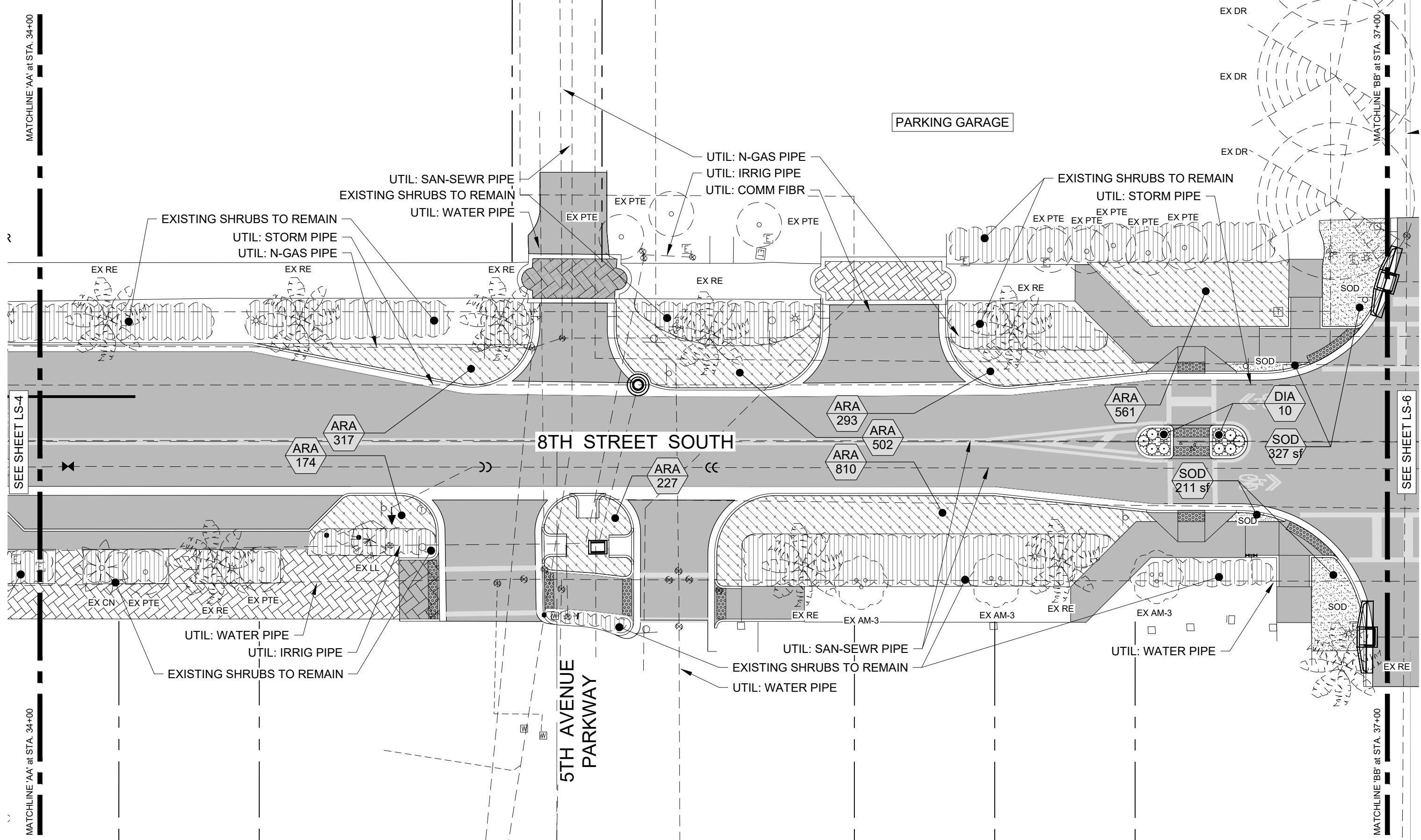
LANDSCAPE PLAN (1)



MUNICIPALITY: CITY OF NAPLES  
 SEC/TWNRGE: 3449S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-8 OF 34

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Revision	Date	Description	By

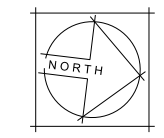
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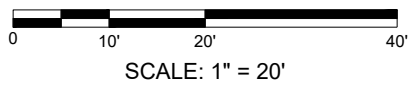
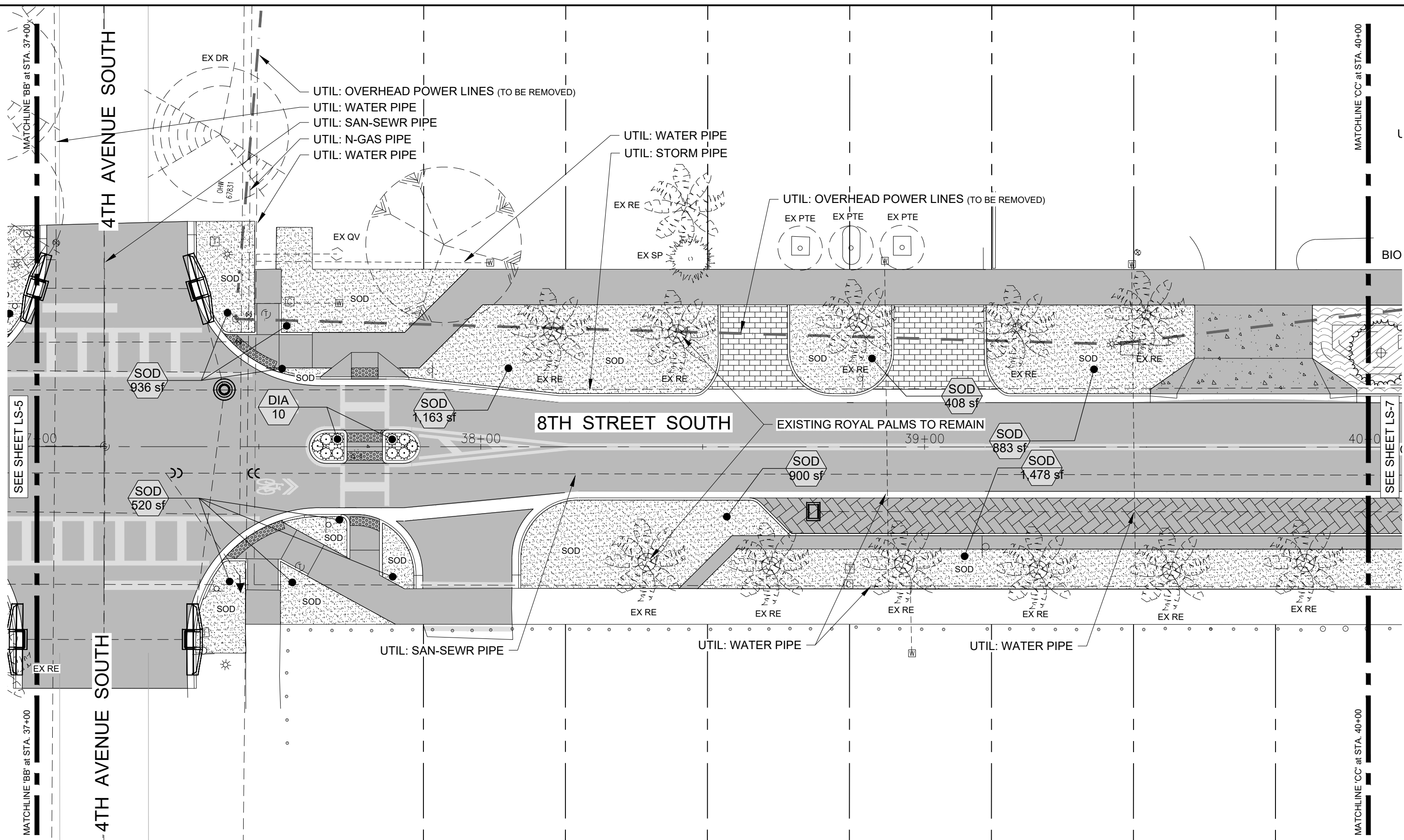
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**8th Street Improvements**  
 LANDSCAPE PLAN (2)



MUNICIPALITY: CITY OF NAPLES  
 SECT/WN/RGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-5 OF 34

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Revision	Date	Description	By

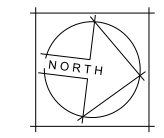
DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'



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 Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151 Business LC 26000266  
 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380

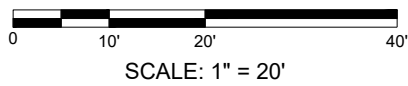
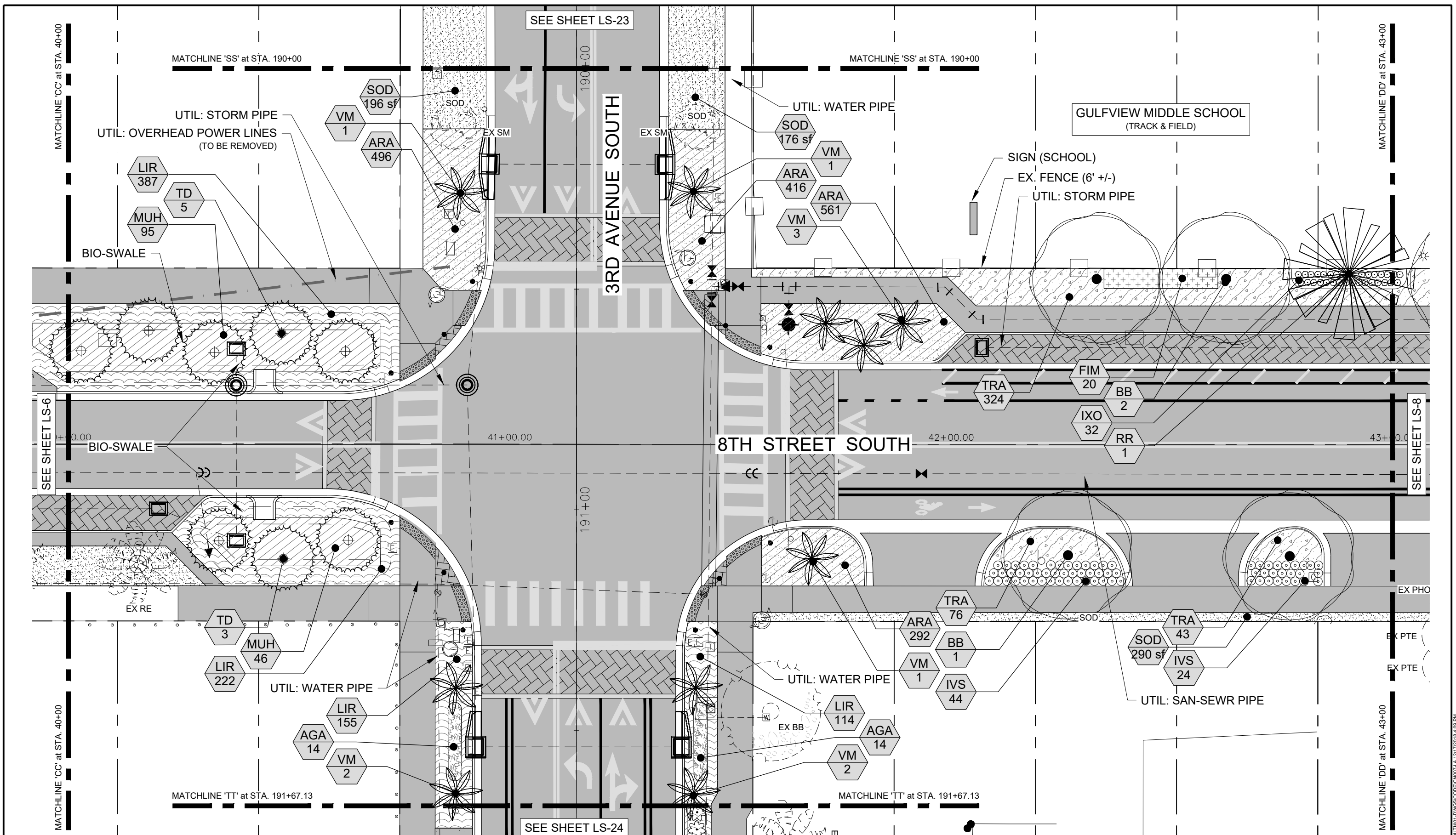
Q. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134

**8th Street Improvements**  
**LANDSCAPE PLAN (3)**



MUNICIPALITY:	CITY OF NAPLES
SEC/TW/RNGE:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEETLS-10 OF 34	

G:\LANDSCAPE\CN007\8TH AVE SOUTH\807-DWG\SC005\CH007.LA 12/17/2018 4:08 PM



Revision	Date	Description	By

DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'

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**8th Street Improvements**

LANDSCAPE PLAN (4)

MUNICIPALITY:  
CITY OF NAPLES

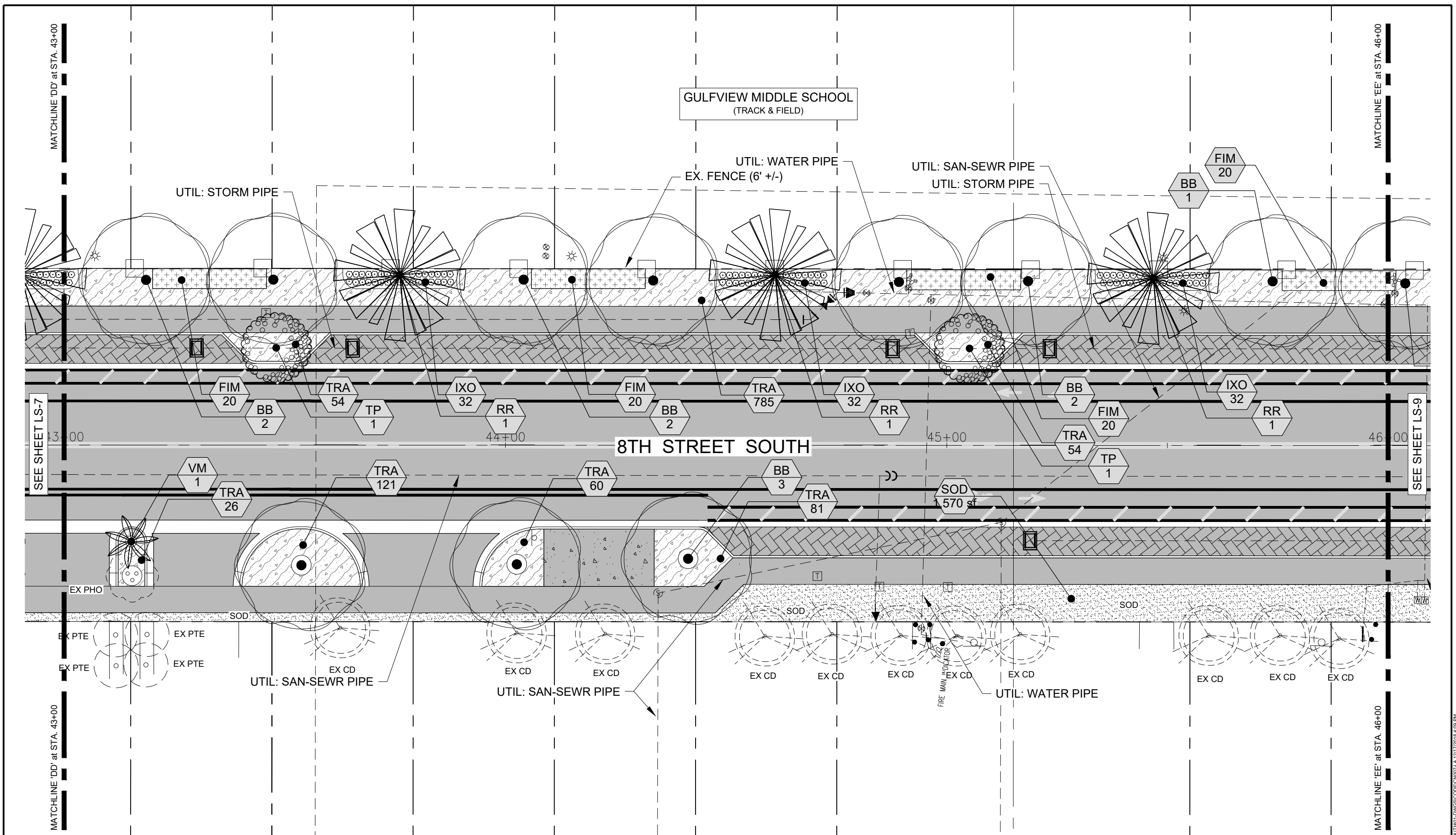
SEC/TWR/RGE:  
3449S & 3/50S/25E

DATE:  
AUGUST, 2018

SUBMITTAL TYPE:  
CONTRACT PLANS, 100%

SHEETLS-11 OF 34

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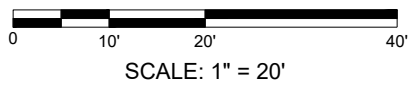


MATCHLINE 'DD' at STA. 43+00

MATCHLINE 'EE' at STA. 46+00

SEE SHEET LS-7

SEE SHEET LS-9



Revision	Date	Description	By

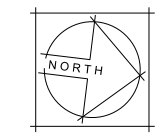
DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'



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 Bonita Springs, Florida 34134

**8th Street Improvements**  
 LANDSCAPE PLAN (5)



MUNICIPALITY: CITY OF NAPLES  
 SEC/TWNRGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEETLS-12 OF 34

G:\LANDSCAPE\CN007\8TH ST 1/16\DWG\SC005\8TH ST 1/16\2018 8.09 PM

GULFVIEW MIDDLE SCHOOL  
(TRACK & FIELD)

8TH STREET SOUTH

UTIL: STORM PIPE  
EX. FENCE (6' +/-)

UTIL: WATER PIPE  
UTIL: STORM PIPE

EX. FENCE (6' +/-)  
UTIL: STORM PIPE  
UTIL: OVERHEAD POWER LINES  
UTIL: STORM PIPE

UTIL: WATER PIPE  
UTIL: SAN-SEWR PIPE

UTIL: STORM PIPE

UTIL: STORM PIPE  
UTIL: WATER PIPE

EX CD

EX CD

EX CD

SOD  
2,202 sf

SOD  
418 sf

SOD  
308 sf

SEE SHEET LS-8

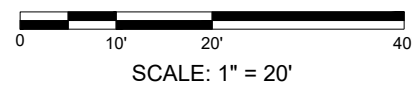
SEE SHEET LS-10

MATCHLINE 'EE' at STA. 46+00

MATCHLINE 'FF' at STA. 49+00

MATCHLINE 'EE' at STA. 46+00

MATCHLINE 'FF' at STA. 49+00



Revision	Date	Description	By

DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'

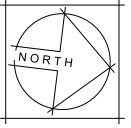


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8th Street Improvements

LANDSCAPE PLAN (6)



MUNICIPALITY:	CITY OF NAPLES
SEC/TWNRGE:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEETLS-13 OF 34	

G:\LANDSCAPE\CN007\8TH ST 1/17/2018 4:10 PM

MATCHLINE 'FF' at STA. 49+00

1ST AVENUE SOUTH

MATCHLINE 'GG' at STA. 52+00

UTIL: N-GAS PIPE  
UTIL: WATER PIPE

UTIL: WATER PIPE  
UTIL: STORM PIPE

UTIL: N-GAS PIPE  
UTIL: SAN-SEWR PIPE  
UTIL: OVERHEAD POWER LINES

UTIL: WATER PIPE

TRIM AND LIMB UP THESE  
EXISTING OAK TREES AS THEY  
OVERHANG INTO THE R.O.W.

SEE SHEET LS-9

SEE SHEET LS-11

8TH STREET SOUTH

SOD 435 sf

SOD 683 sf

LIR 64

ARA 46

TRA 51

TRA 185

BB 4

ARA 50

TRA 56

TRA 128

BB 2

ARA 144

TRA 33

TRA 125

ARA 165

VM 1

TRA 341

EX QV

EX QV

EX QV

EX QV

EX QV

EX QV

EX SP

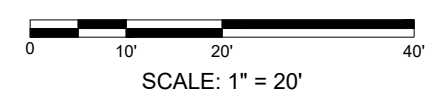
EX SP

MATCHLINE 'FF' at STA. 49+00

1ST AVENUE SOUTH

MATCHLINE 'GG' at STA. 52+00

JAXE LLC  
850 CENTRAL AVE



Revision	Date	Description	By

DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'



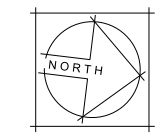
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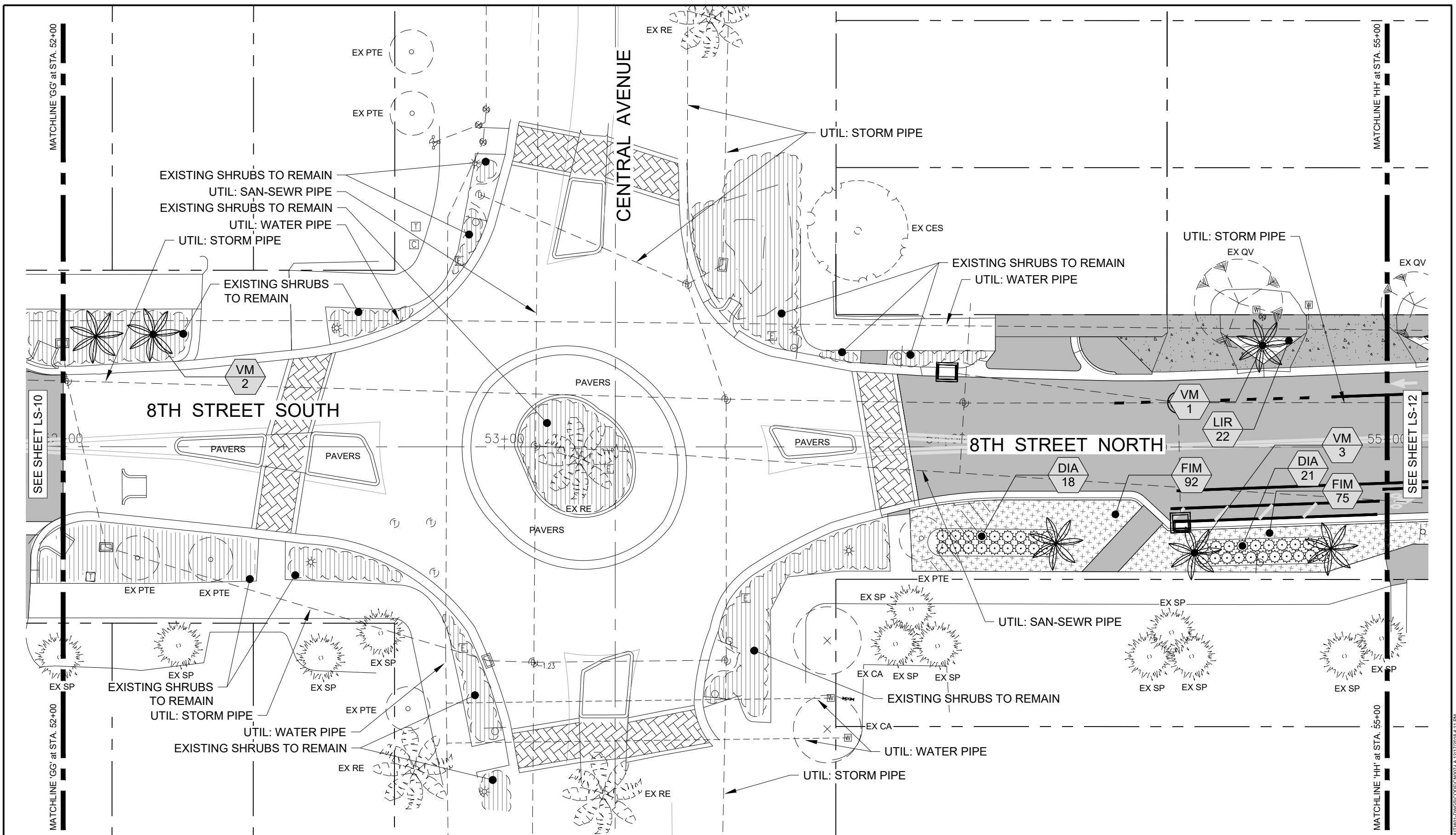
*8th Street Improvements*

LANDSCAPE PLAN (7)



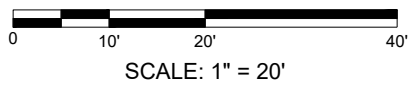
MUNICIPALITY:	CITY OF NAPLES
SECT/WN/RGE:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEET	LS-14 OF 34

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SEE SHEET LS-10

SEE SHEET LS-12



Revision	Date	Description	By

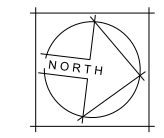
DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'



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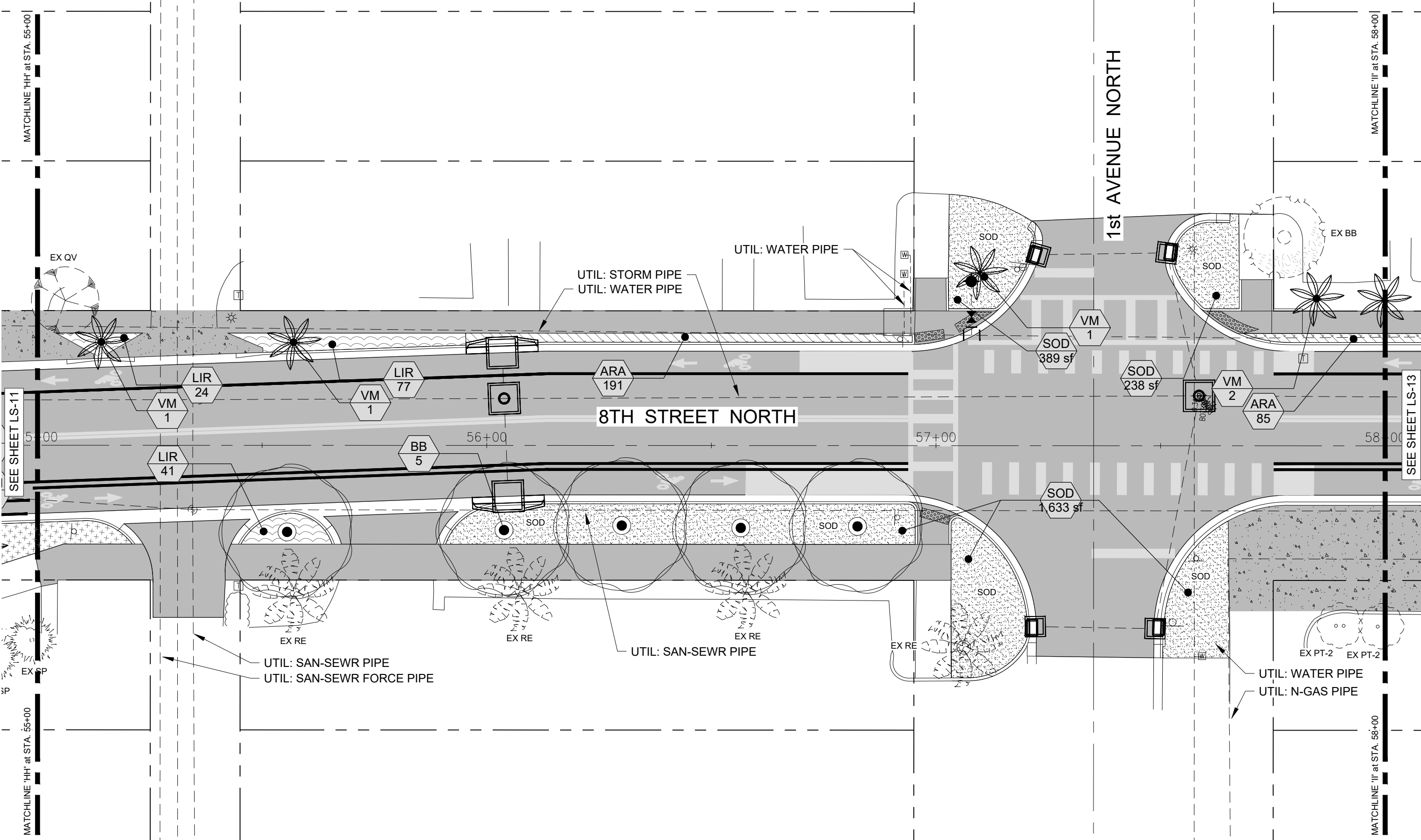
Q. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134

**8th Street Improvements**  
 LANDSCAPE PLAN (8)



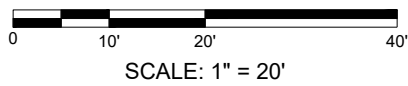
MUNICIPALITY: CITY OF NAPLES  
 SEC/TWNRGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEETLS-15OF 34

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SEE SHEET LS-11

SEE SHEET LS-13



Revision	Date	Description	By

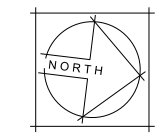
DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'



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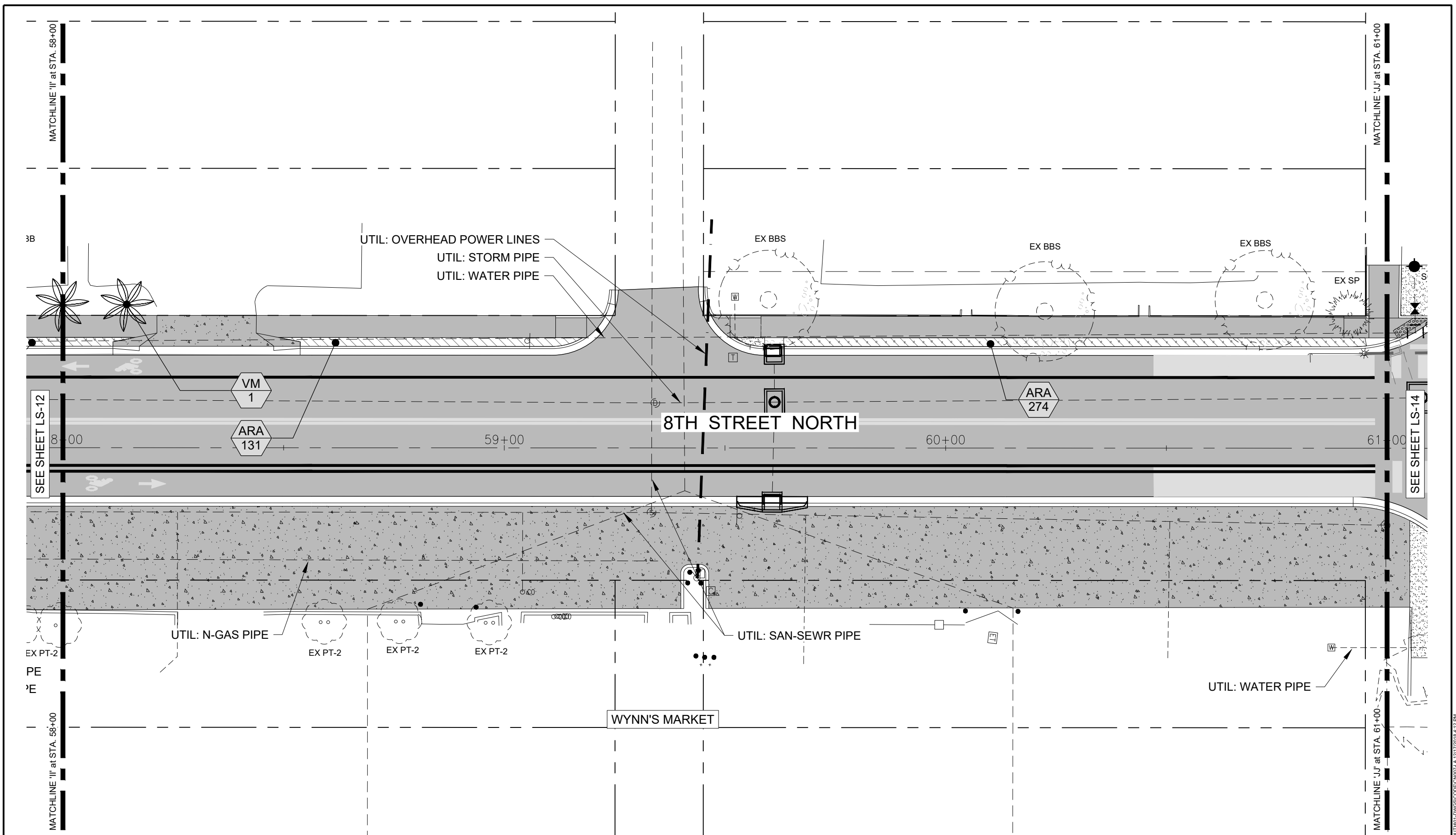
**8th Street Improvements**  
 LANDSCAPE PLAN (9)



MUNICIPALITY: CITY OF NAPLES  
 SEC/TWNRGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-16 OF 34

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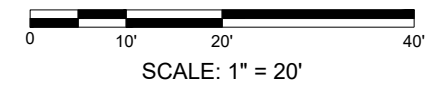


SEE SHEET LS-12

SEE SHEET LS-14

MATCHLINE 'JJ' at STA. 58+00

MATCHLINE 'JJ' at STA. 61+00



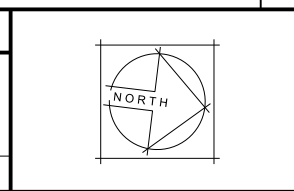
Revision	Date	Description	By

DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'

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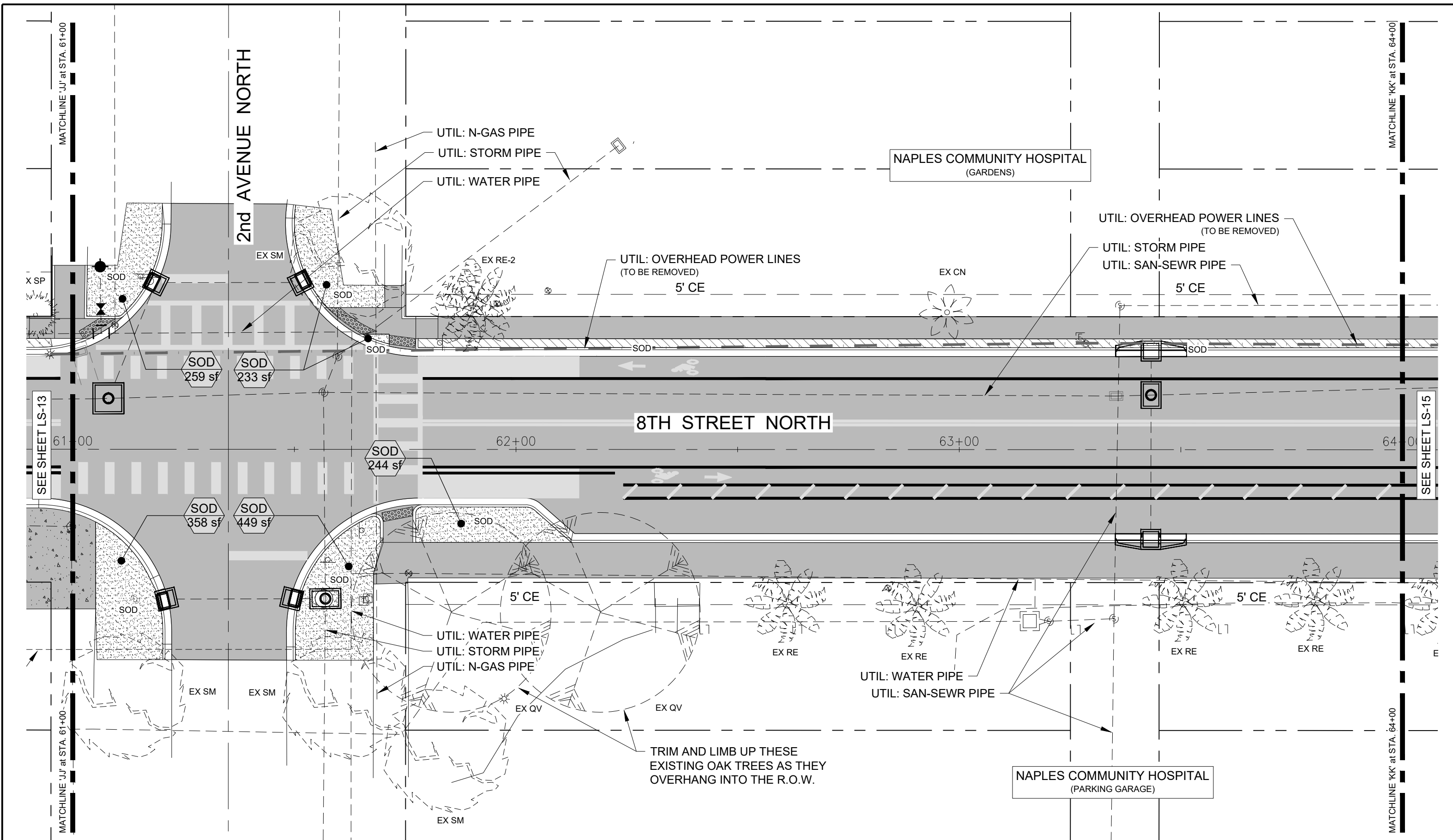
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*8th Street Improvements*  
 LANDSCAPE PLAN (10)



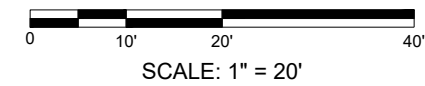
MUNICIPALITY: CITY OF NAPLES  
 SEC/TWN/RGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-17 OF 34

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SEE SHEET LS-13

SEE SHEET LS-15



Revision	Date	Description	By

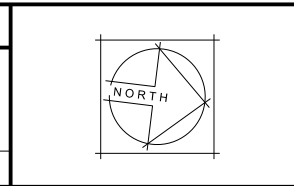
DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'

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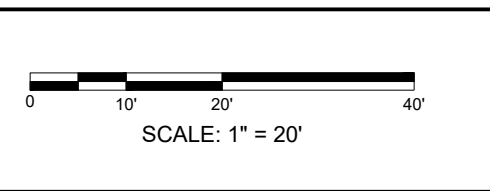
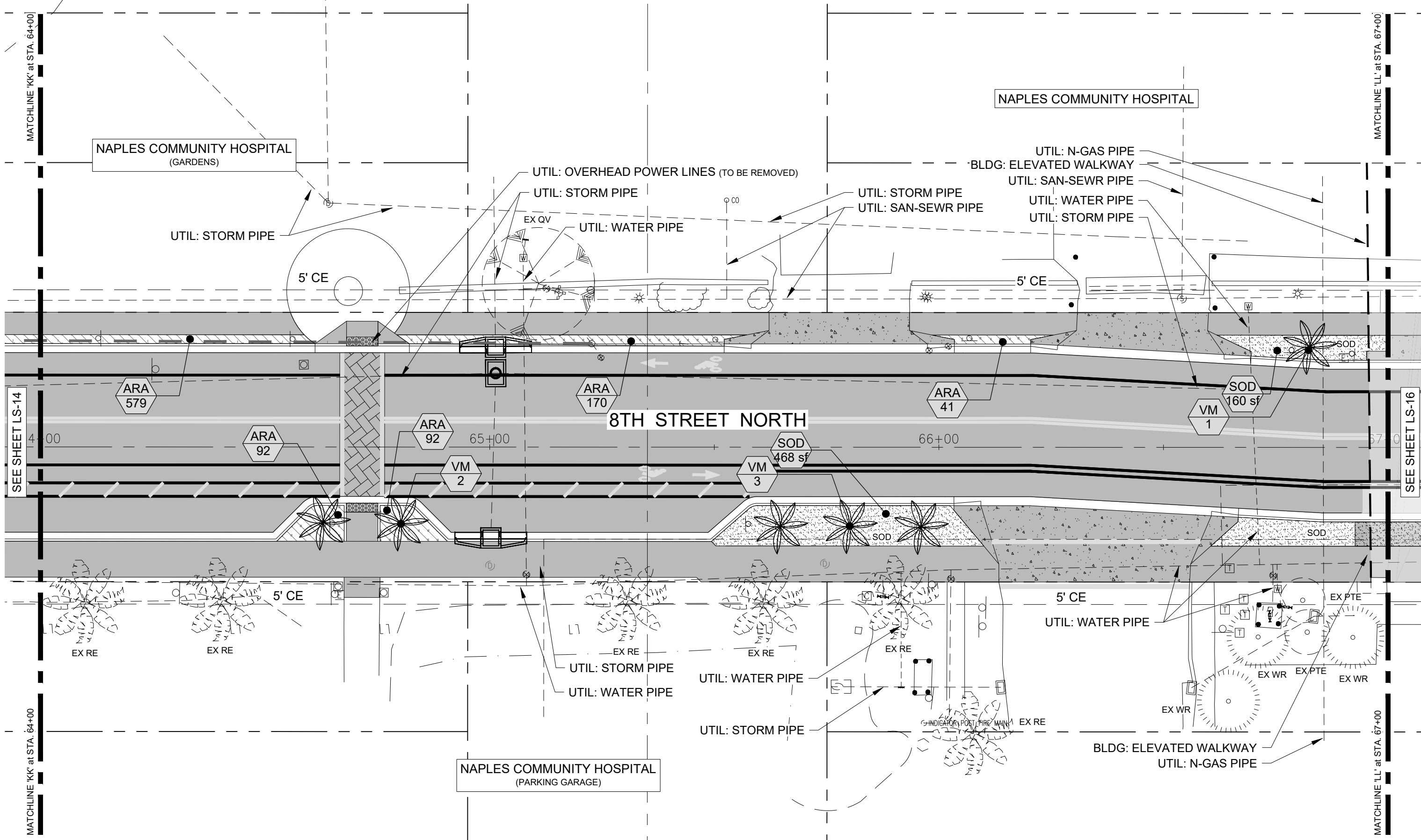
**8th Street Improvements**

LANDSCAPE PLAN (11)



MUNICIPALITY:	CITY OF NAPLES
SECTION:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEET:	LS-18 OF 34

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Revision	Date	Description	By

DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'

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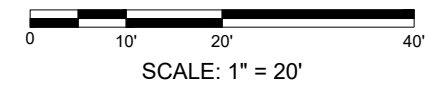
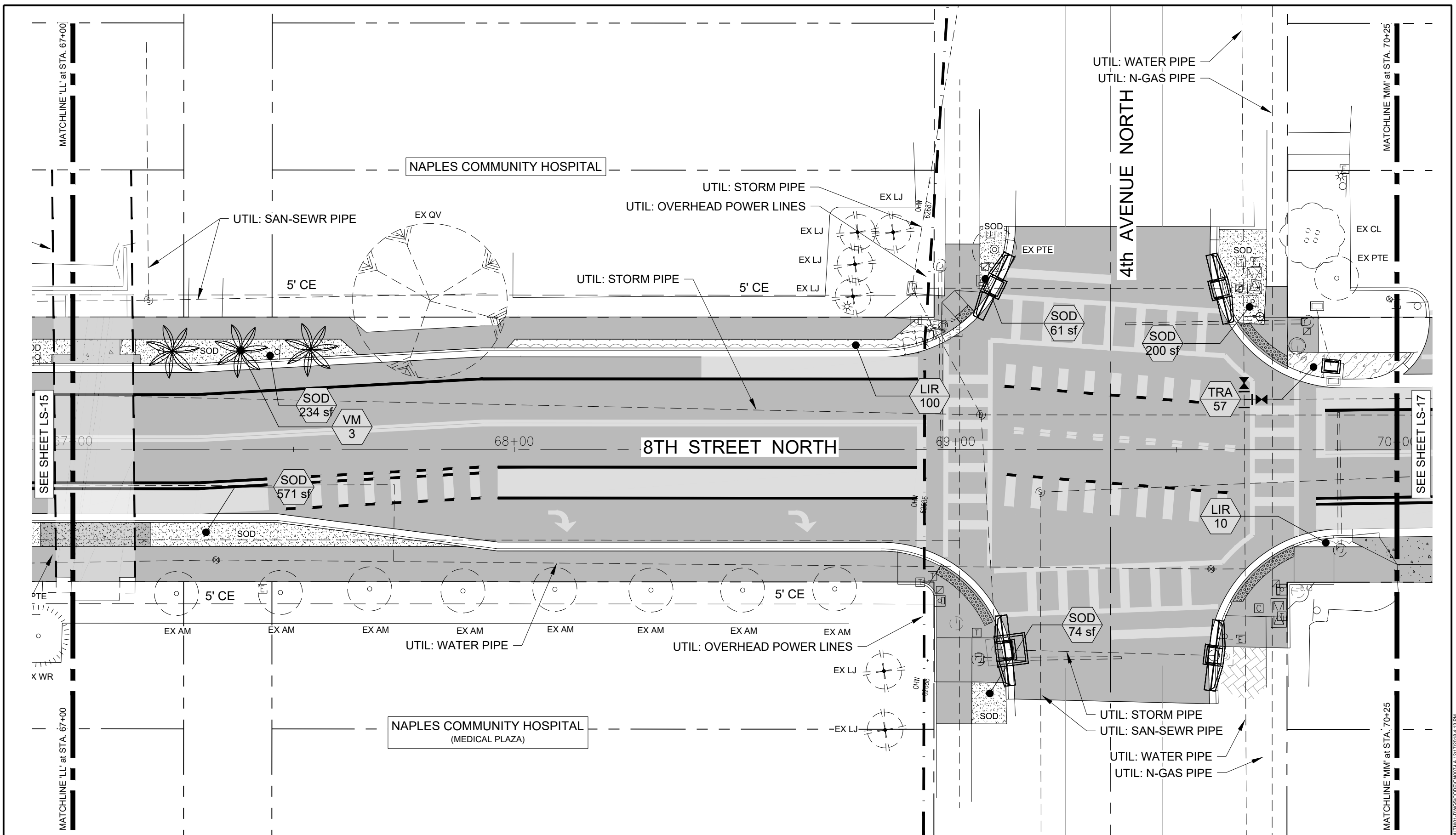
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**8th Street Improvements**

LANDSCAPE PLAN (12)

MUNICIPALITY: CITY OF NAPLES  
 SEC/TWNRGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-19 OF 34

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Revision	Date	Description	By

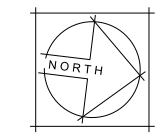
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 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'



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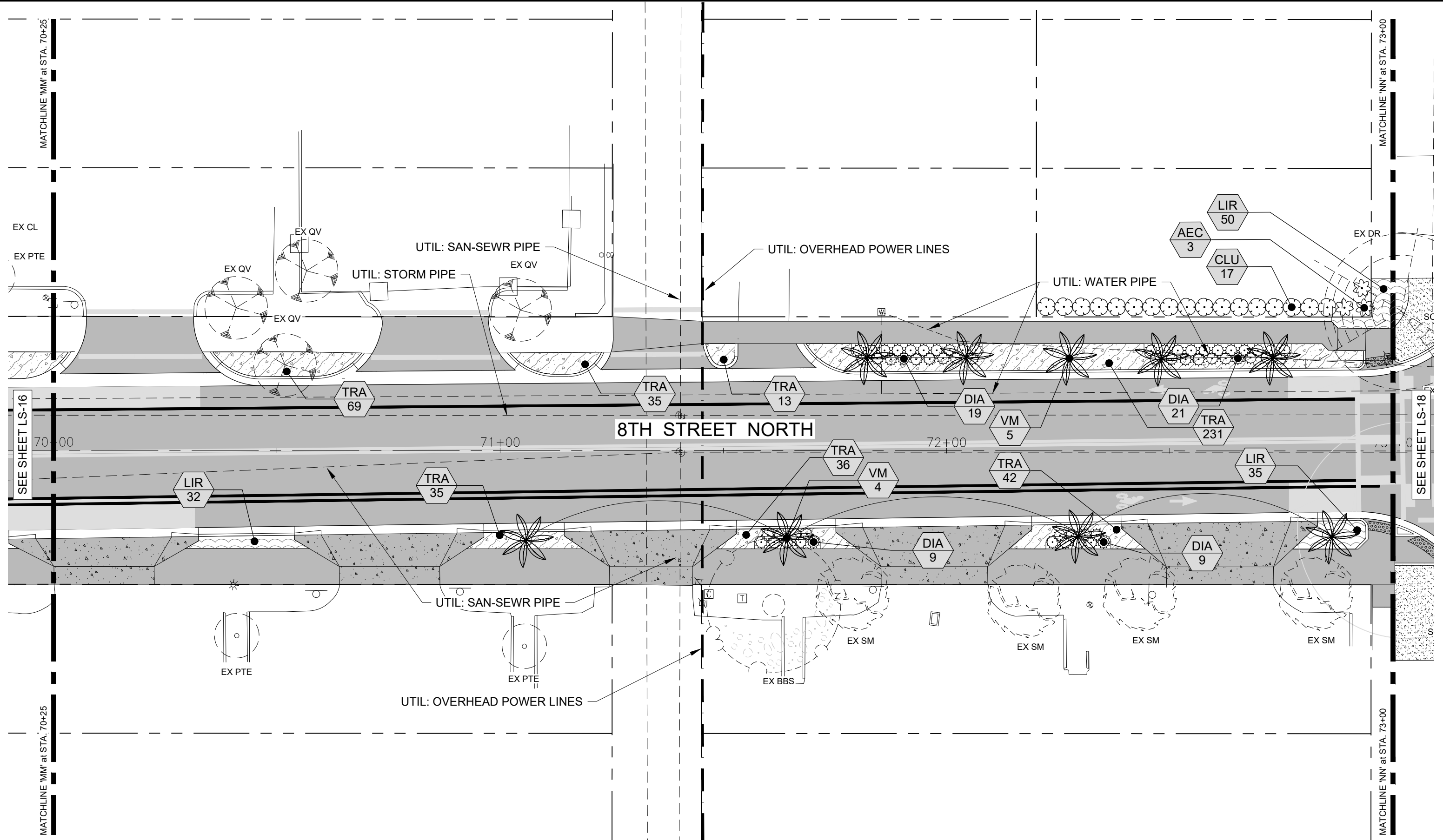
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**8th Street Improvements**  
 LANDSCAPE PLAN (13)

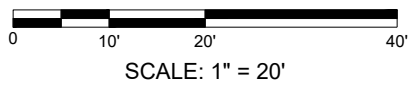


MUNICIPALITY: CITY OF NAPLES  
 SEC/TWNRGE: 3449S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEETLS-20OF 34

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8TH STREET NORTH



Revision	Date	Description	By

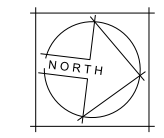
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 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'



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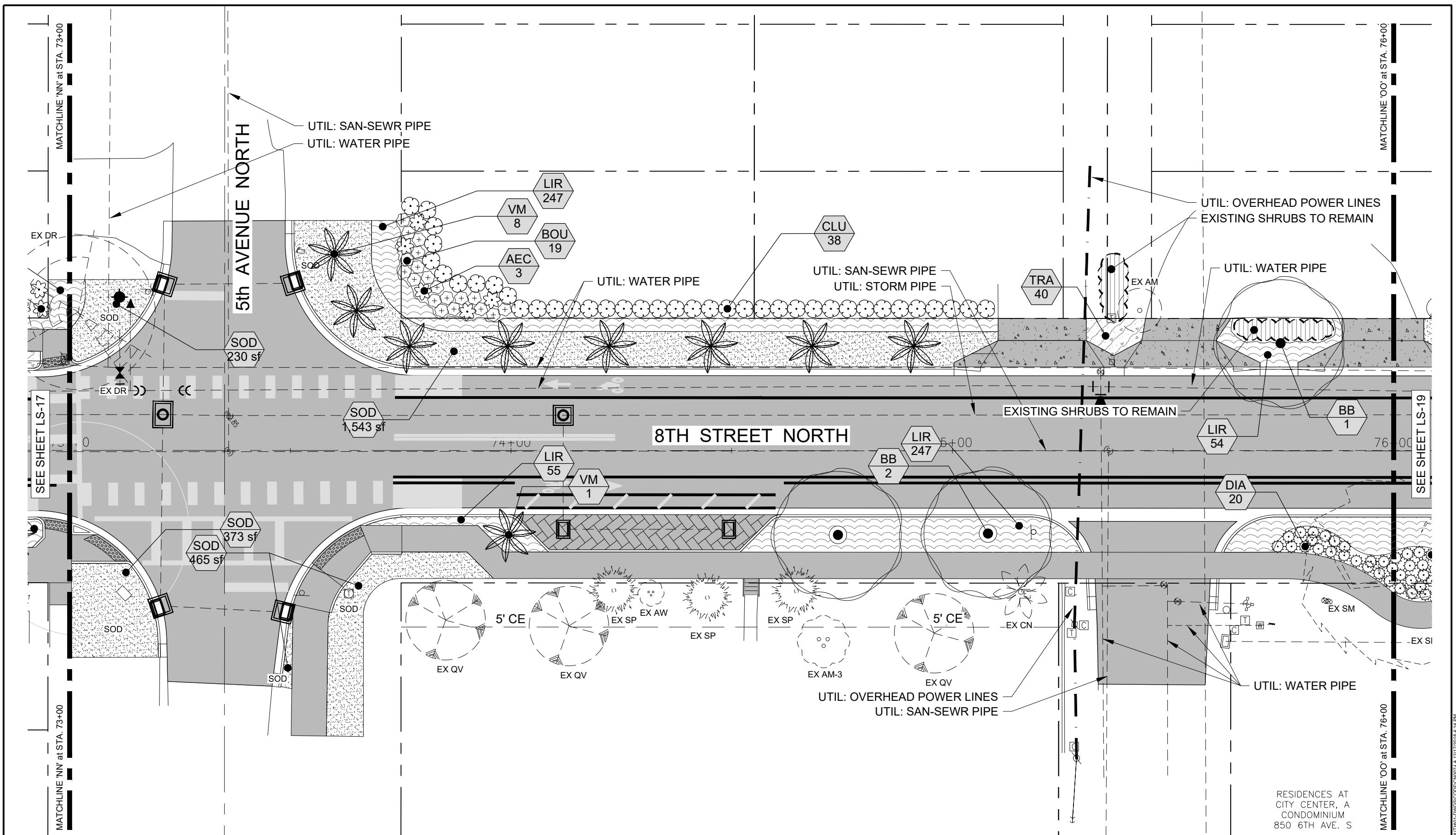
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 3800 Via Del Rey  
 Bonita Springs, Florida 34134

*8th Street Improvements*  
 LANDSCAPE PLAN (14)



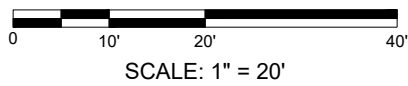
MUNICIPALITY: CITY OF NAPLES  
 SEC/TW/NR/GE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEETLS-21 OF 34

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SEE SHEET LS-17

SEE SHEET LS-19



Revision	Date	Description	By

DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'

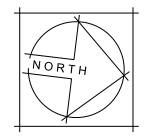


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 Bonita Springs, Florida 34134

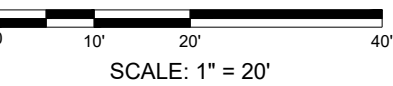
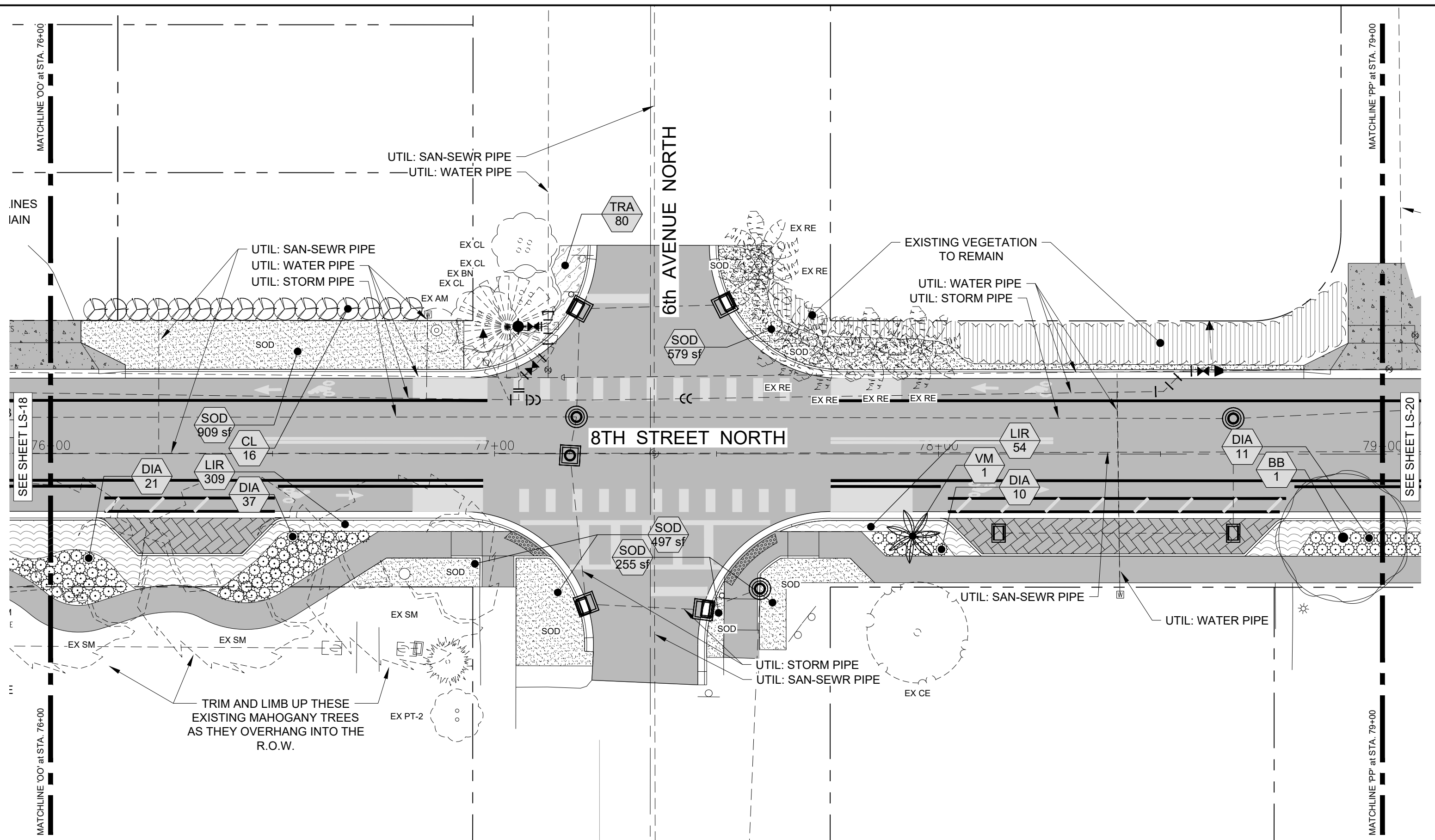
**8th Street Improvements**  
 LANDSCAPE PLAN (15)

RESIDENCES AT  
 CITY CENTER, A  
 CONDOMINIUM  
 850 6TH AVE. S



MUNICIPALITY:	CITY OF NAPLES
SEC/TW/RNGE:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEET	LS-22 OF 34

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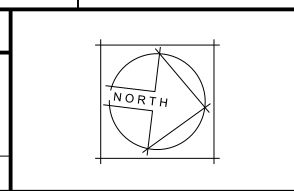
Revision	Date	Description	By

DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'

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 Bonita Springs, Florida 34134

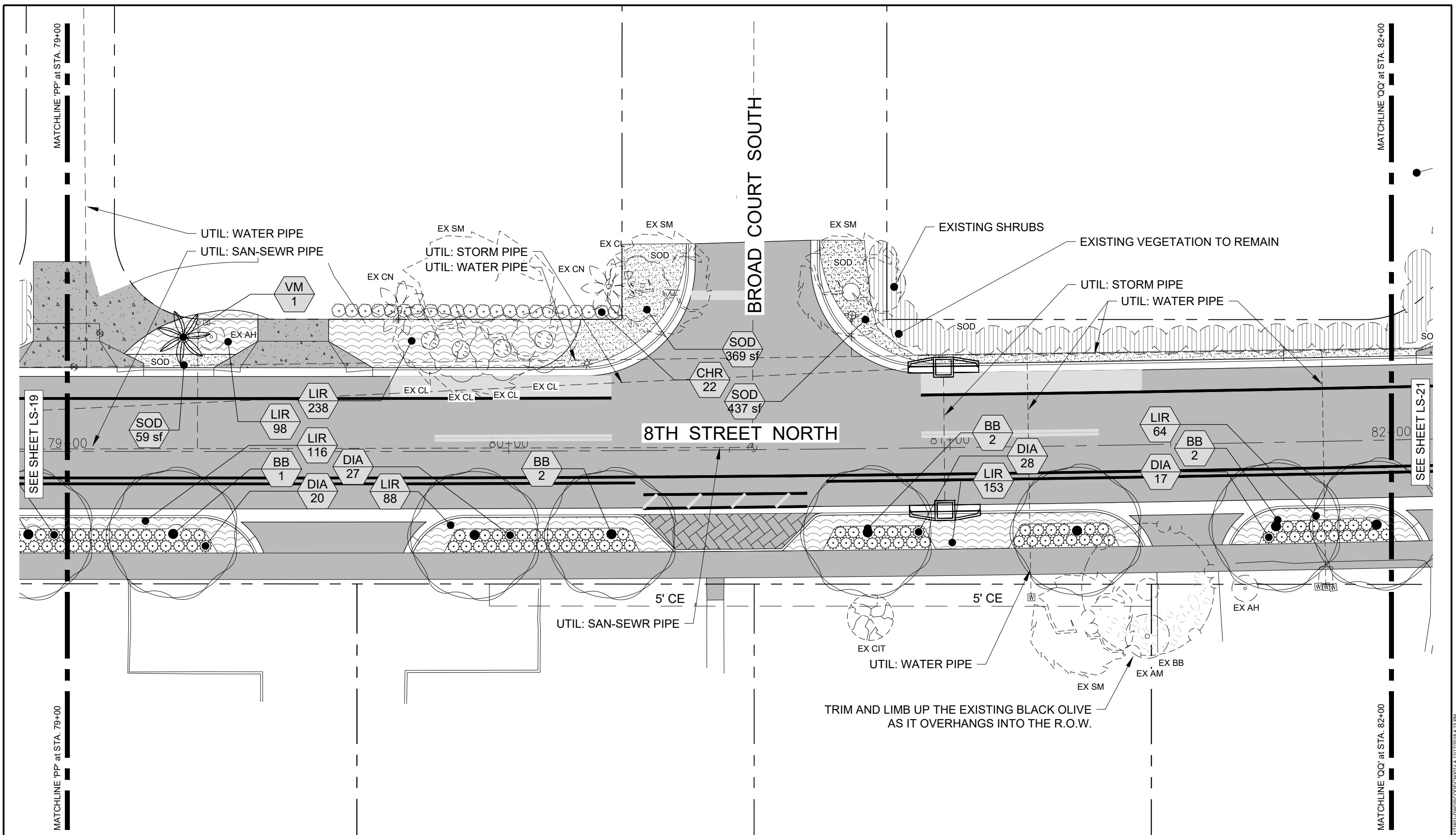
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*8th Street Improvements*  
 LANDSCAPE PLAN (16)



MUNICIPALITY: CITY OF NAPLES  
 SEC/TWNRGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEETLS-23OF 34

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MATCHLINE 'PP' at STA. 79+00

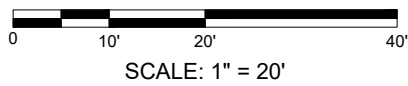
MATCHLINE 'QQ' at STA. 82+00

SEE SHEET LS-19

SEE SHEET LS-21

MATCHLINE 'PP' at STA. 79+00

MATCHLINE 'QQ' at STA. 82+00



Revision	Date	Description	By

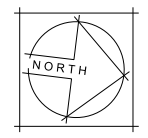
DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'



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Q. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134

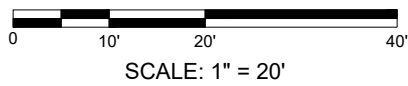
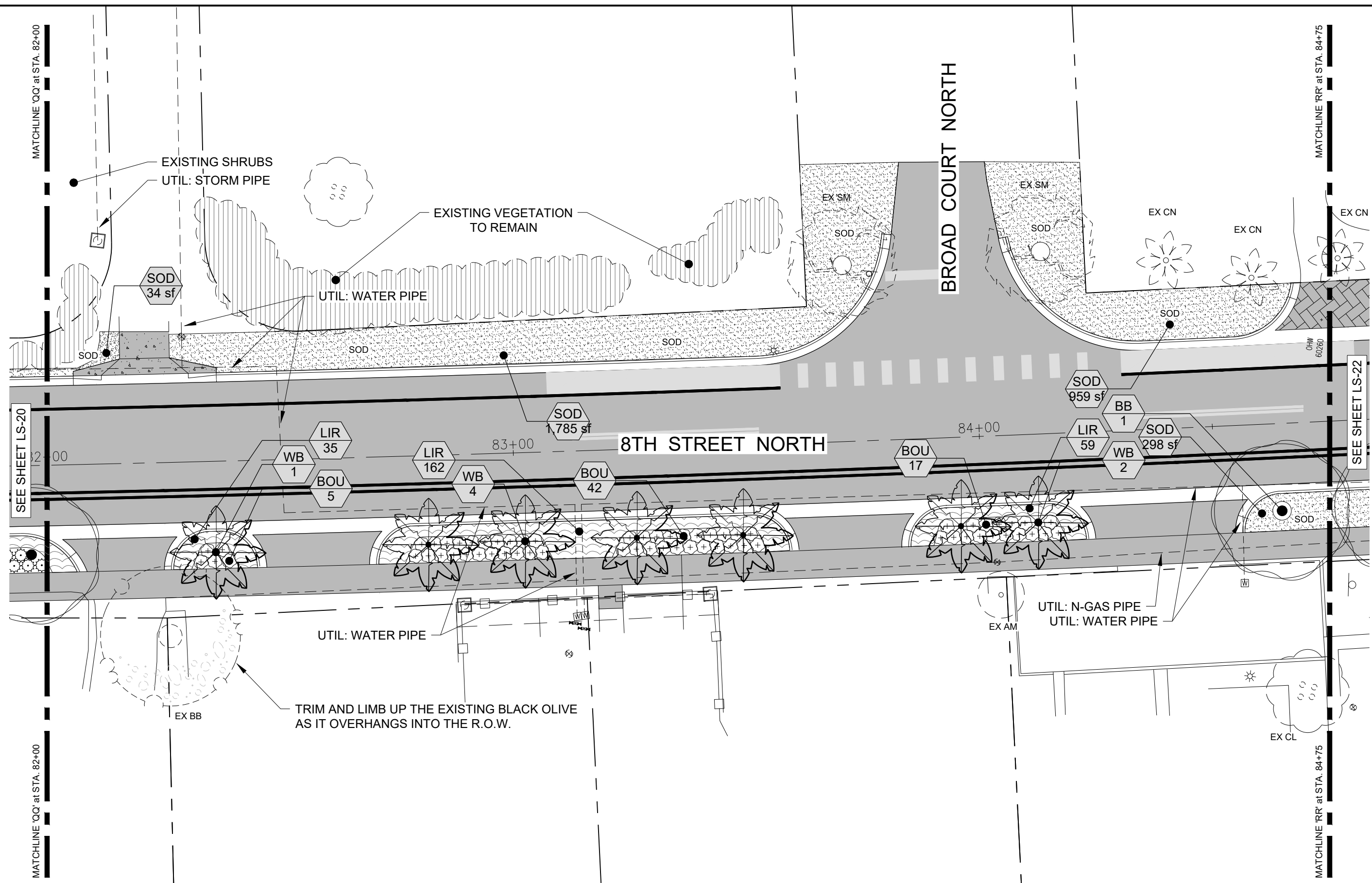
**8th Street Improvements**  
 LANDSCAPE PLAN (17)



MUNICIPALITY: CITY OF NAPLES  
 SEC/TWNRGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEETLS-24 OF 34

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Revision	Date	Description	By

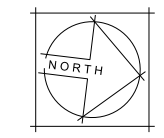
DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'



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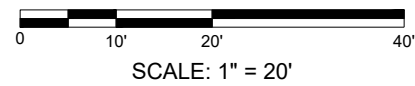
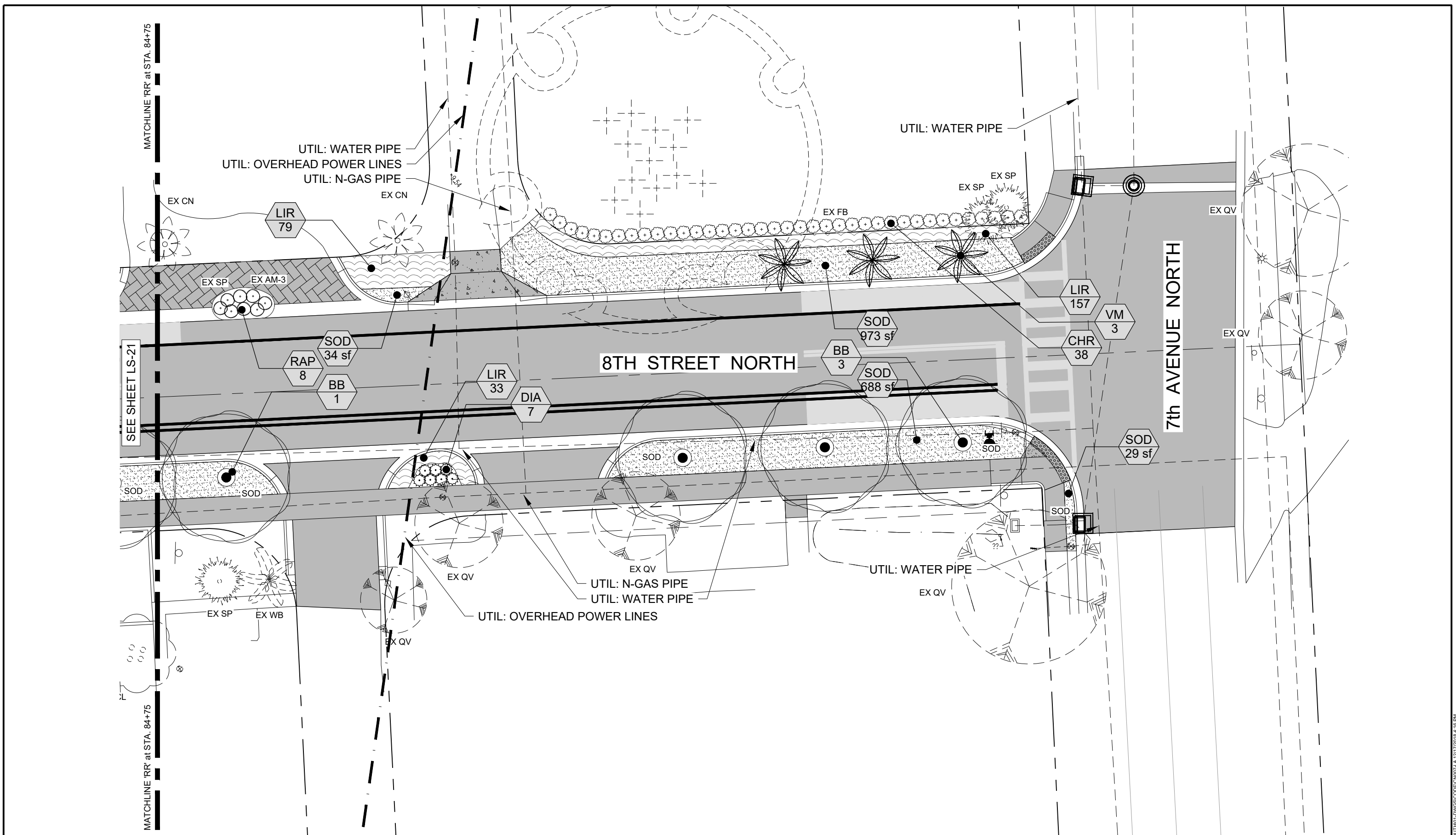
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 3800 Via Del Rey  
 Bonita Springs, Florida 34134

*8th Street Improvements*  
 LANDSCAPE PLAN (18)



MUNICIPALITY: CITY OF NAPLES  
 SEC/TW/NRGE: 3449S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-25 OF 34

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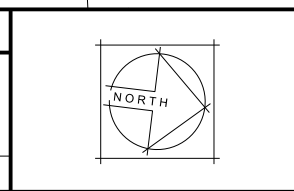
Revision	Date	Description	By

DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'

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 Bonita Springs, Florida 34134

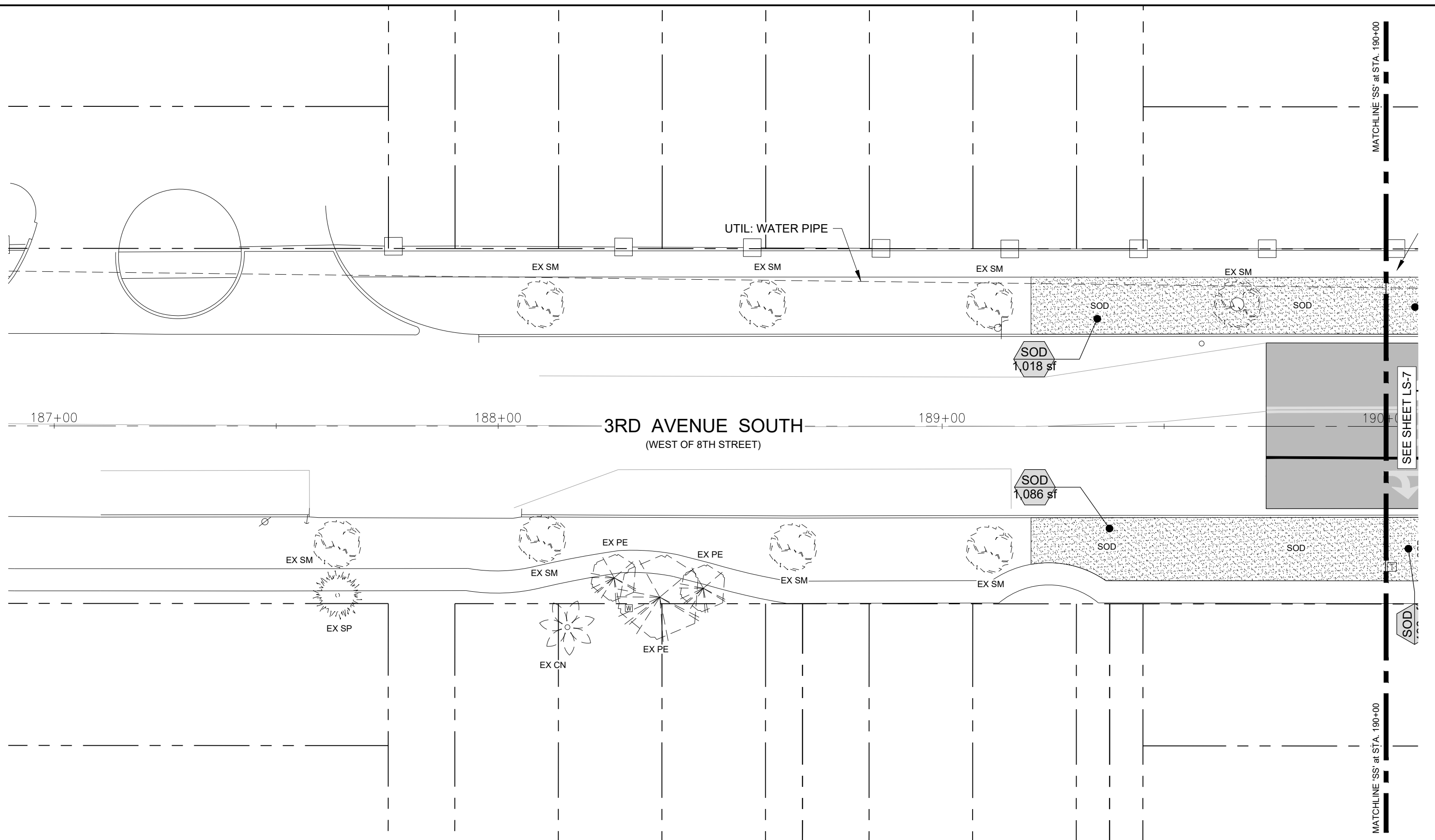
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**8th Street Improvements**  
 LANDSCAPE PLAN (19)



MUNICIPALITY:	CITY OF NAPLES
SECT/TWNR/GRGE:	3449S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEET	LS-26 OF 34

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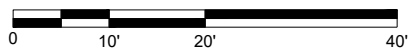
187+00 188+00 189+00 190+00

**3RD AVENUE SOUTH**  
(WEST OF 8TH STREET)

MATCHLINE 'SS' at STA. 190+00

SEE SHEET LS-7

MATCHLINE 'SS' at STA. 190+00



SCALE: 1" = 20'

Revision	Date	Description	By

DESIGNED BY: D.N.  
 DRAWN BY: tpb-18  
 APPROVED: D.N.  
 JOB CODE: CN007  
 SCALE: 1" = 20'

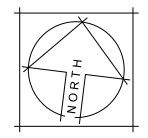


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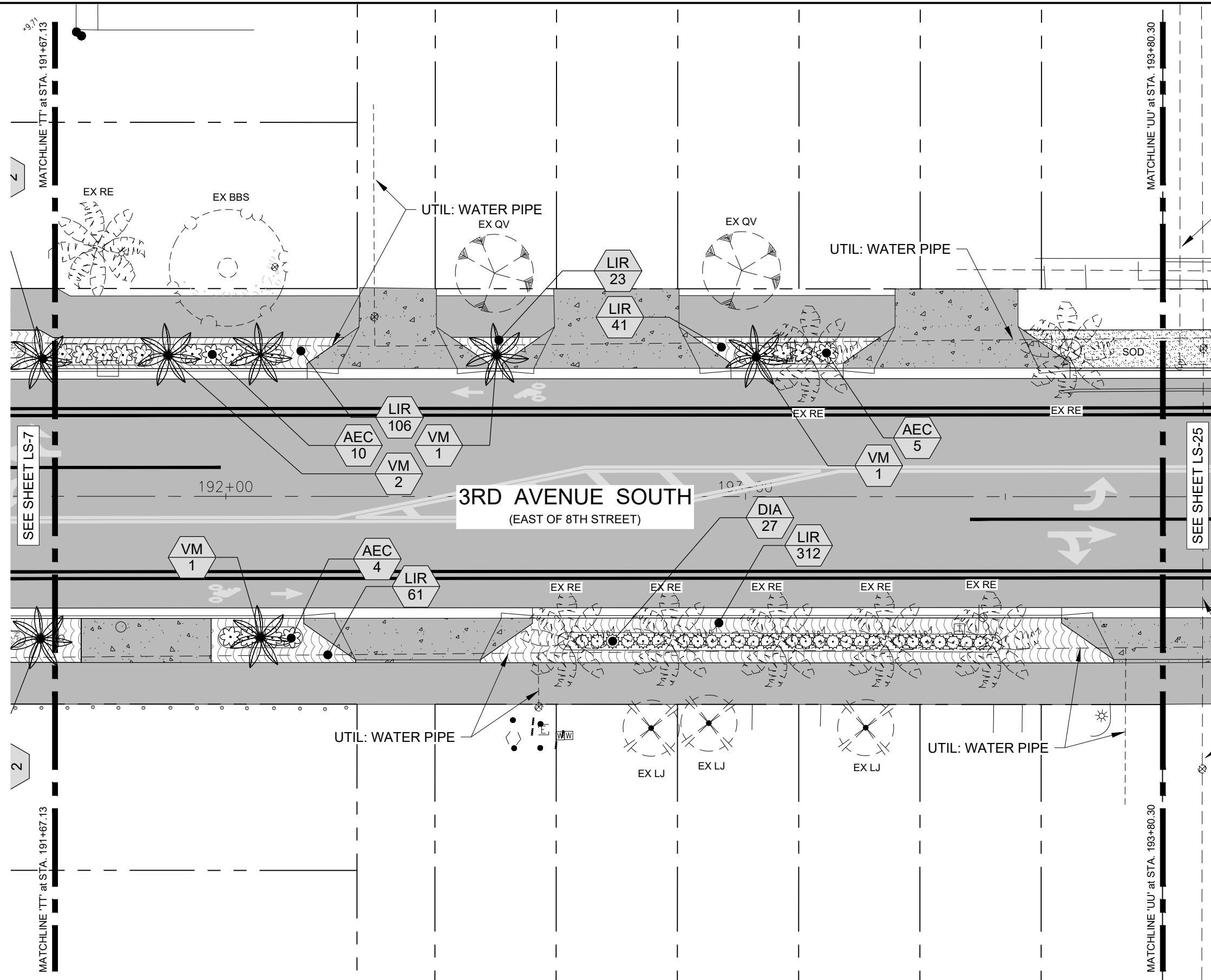
Q. Grady Minor and Associates, P.A.  
 3800 Via Del Rey  
 Bonita Springs, Florida 34134

*8th Street Improvements*

LANDSCAPE PLAN (20)



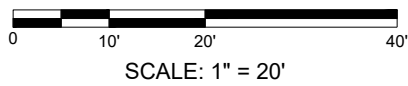
MUNICIPALITY: CITY OF NAPLES  
 SEC/TWN/RGE: 34/49S & 3/50S/25E  
 DATE: AUGUST, 2018  
 SUBMITTAL TYPE: CONTRACT PLANS, 100%  
 SHEET LS-27 OF 34



SEE SHEET LS-7

SEE SHEET LS-25

**3RD AVENUE SOUTH**  
(EAST OF 8TH STREET)



Revision	Date	Description	By

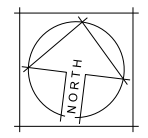
DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'

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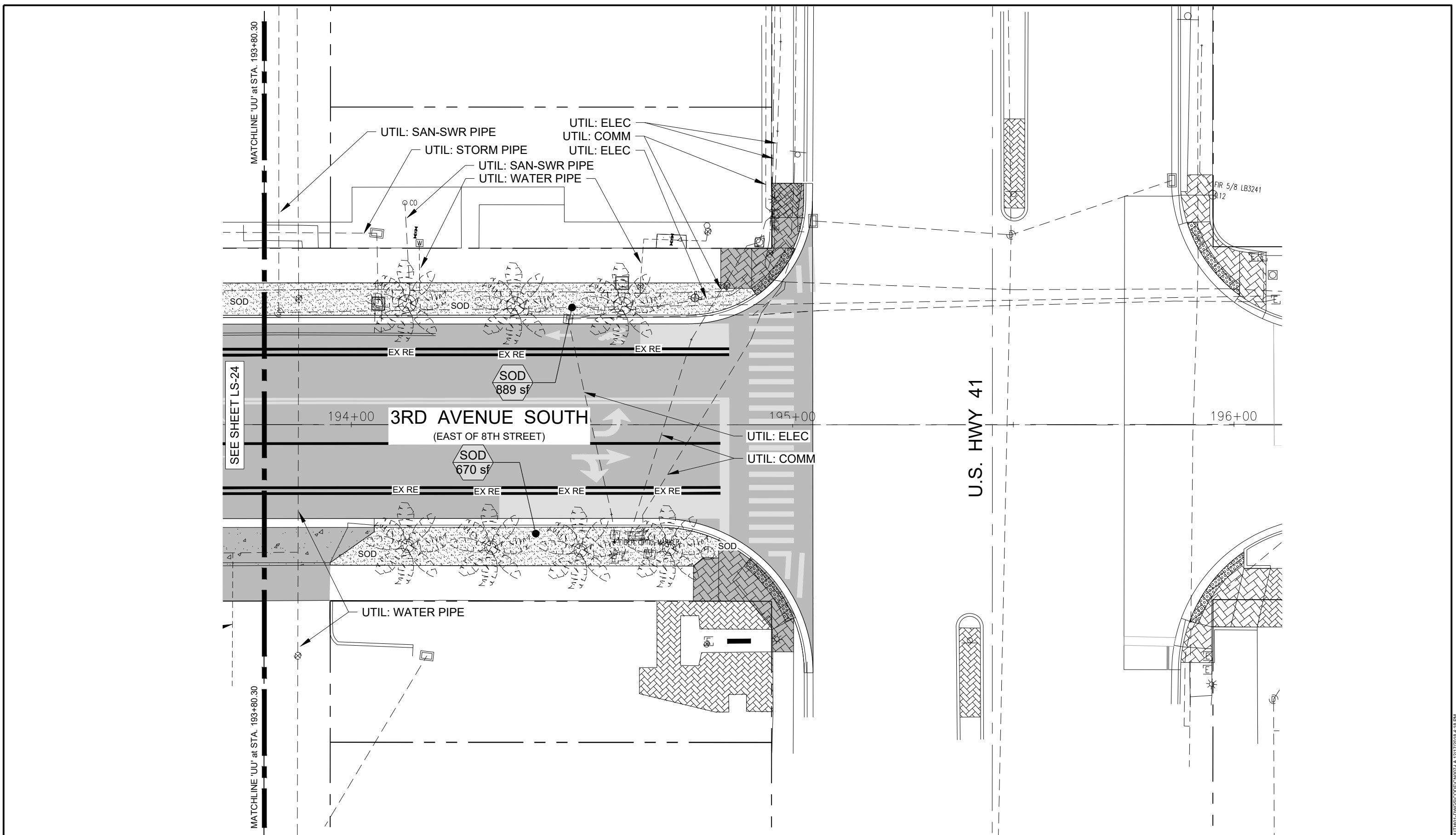
*8th Street Improvements*

**LANDSCAPE PLAN (21)**



MUNICIPALITY:	CITY OF NAPLES
SEC/TWNRGE:	3449S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEET	LS-28 OF 34

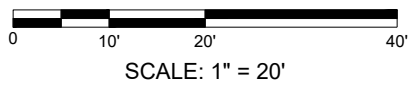
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SEE SHEET LS-24

MATCHLINE 'UU' at STA. 193+80.30

MATCHLINE 'UU' at STA. 193+80.30



Revision	Date	Description	By

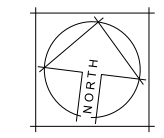
DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	1" = 20'



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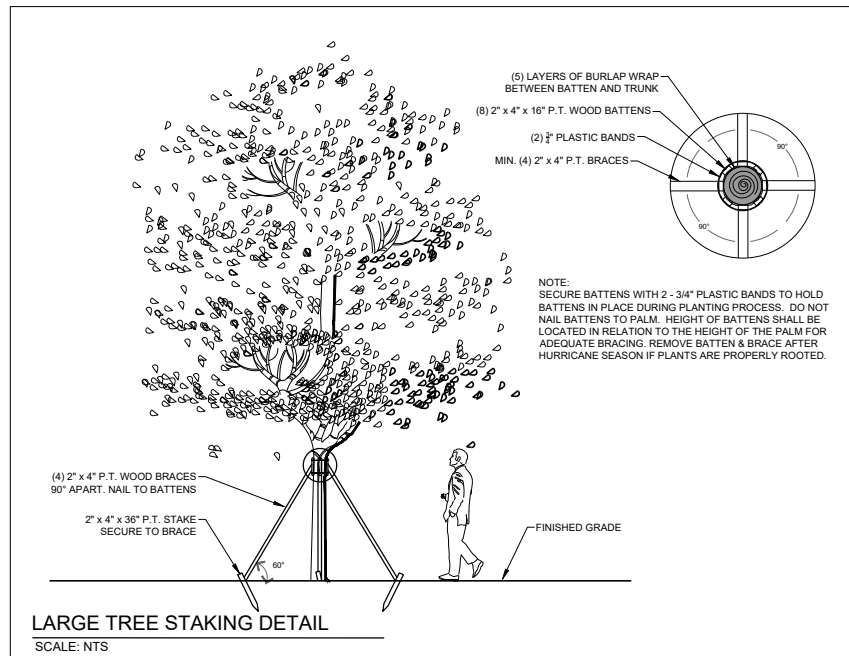
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**8th Street Improvements**  
**LANDSCAPE PLAN (22)**

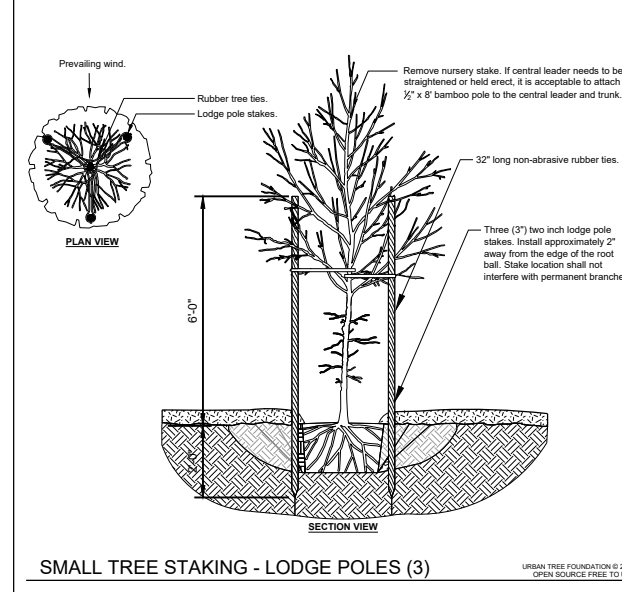


MUNICIPALITY:	CITY OF NAPLES
SEC/TW/RNGE:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEET	LS-29 OF 34

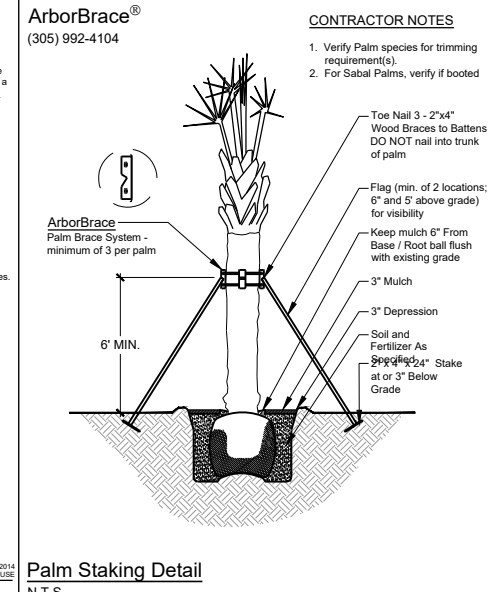
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**LARGE TREE STAKING DETAIL**  
SCALE: NTS

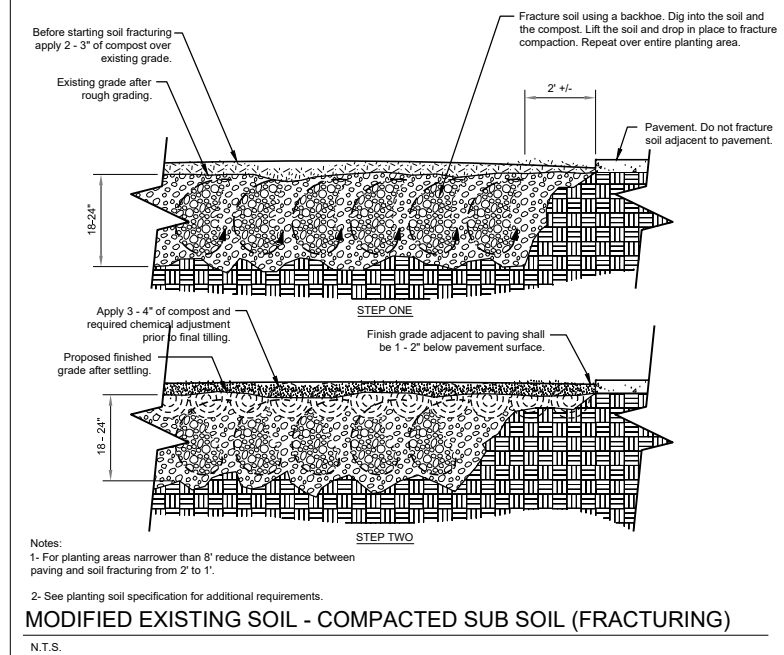


**SMALL TREE STAKING - LODGE POLES (3)**  
OPEN SOURCE FREE TO USE



**Palm Staking Detail**  
N.T.S.

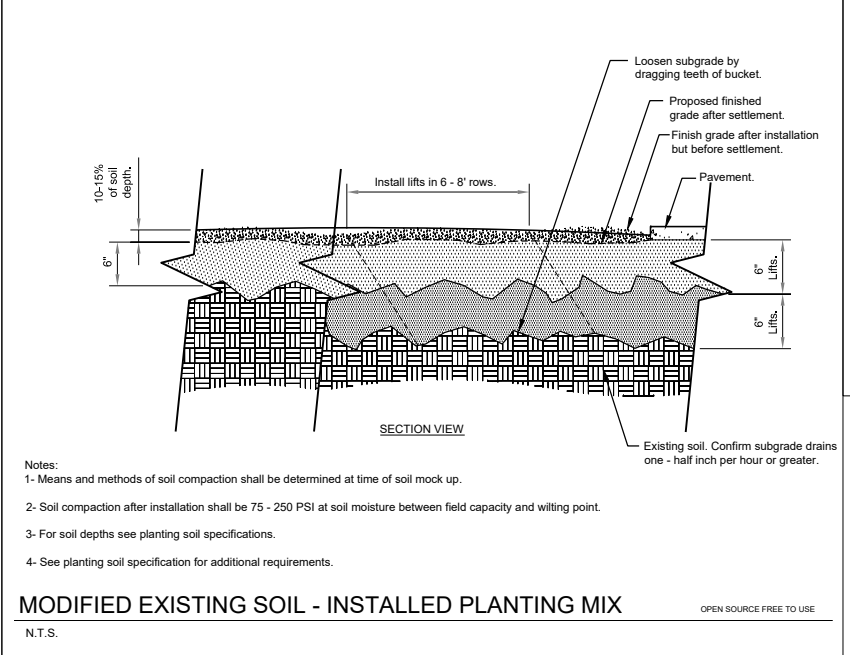
**CONTRACTOR NOTES**  
1. Verify Palm species for trimming requirements.  
2. For Sabal Palms, verify if booted



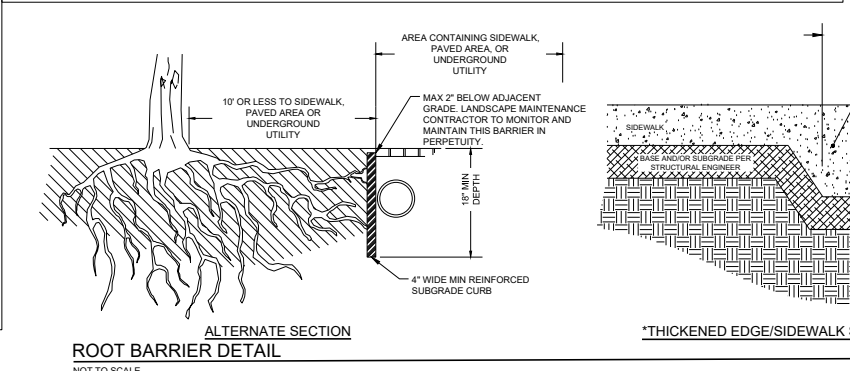
**MODIFIED EXISTING SOIL - COMPACTED SUB SOIL (FRACTURING)**  
N.T.S.

**LIME AND FERTILIZER RECOMMENDATIONS:**  
Crop: Bahiagrass Lawn  
Lime: 0.00 lbs per 1,000 sq. ft. per year  
Nitrogen: 2.00 lbs per 1,000 sq. ft. per year  
Phosphorus (P<sub>2</sub>O<sub>5</sub>): 0.50 lbs per 1,000 sq. ft. per year  
Potassium (K<sub>2</sub>O): 2.00 lbs per 1,000 sq. ft. per year  
Magnesium(Mg): 0.80 lbs per 1,000 sq. ft. per year

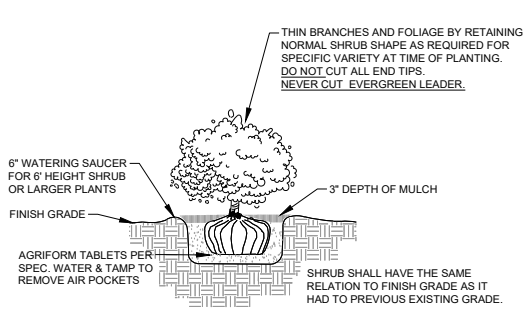
The above recommendations for K and Mg are provided based on the crop needs since no interpretation for these nutrients was found using AB-DTPA extraction method. Nitrogen recommendation is based on research data not on any soil test. The soil has been determined to be calcareous in nature because of its pH (pH=7.4). At this pH, AB-DTPA extraction method was found suitable. However, only Phosphorus(P) was calibrated. No calibration was possible for Potassium(K) and Magnesium(Mg). Therefore, the recommendations for K and Mg are provided solely for successful crop performance and yields. Nitrogen(N) recommendations are provided based on research data and not on a soil test. Research studies are underway at different locations in the state to identify an appropriate extraction method for improved interpretations and recommendations for these soils. At that time, the recommendations will be modified, as appropriate.  
For further information, please contact:  
Dr. Yuncong Li, Soils Specialist, UF/IFAS TREC-Homestead  
18905 SW 280 St. Homestead, FL 33031  
Email: Yunli@ufl.edu Fax: 305-246-7003



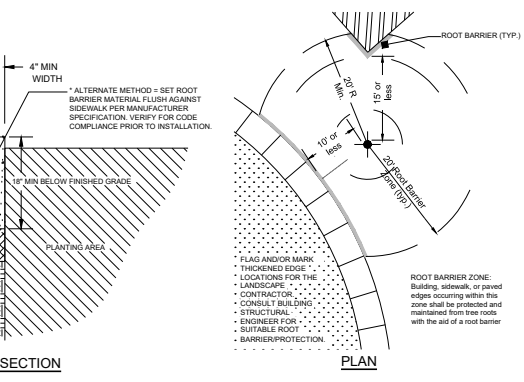
**MODIFIED EXISTING SOIL - INSTALLED PLANTING MIX**  
N.T.S.



**ROOT BARRIER DETAIL**  
NOT TO SCALE



**LARGE SHRUB PLANTING DETAIL**  
NOT TO SCALE



**PLAN**

Revision	Date	Description	By

DESIGNED BY:	D.N.
DRAWN BY:	tpb-18
APPROVED:	D.N.
JOB CODE:	CN007
SCALE:	#####



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Bonita Springs, Florida 34134

**8th Street Improvements**

**LANDSCAPE DETAILS SHEET**

MUNICIPALITY:	CITY OF NAPLES
SEC/TW/NRGE:	34/49S & 3/50S/25E
DATE:	AUGUST, 2018
SUBMITTAL TYPE:	CONTRACT PLANS, 100%
SHEETLS-30 OF 34	

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## GENERAL LANDSCAPE DEVELOPMENT NOTES:

THE LANDSCAPE PLANS HAVE BEEN DEVELOPED IN GENERAL COMPLIANCE WITH THE COLLIER COUNTY LAND DEVELOPMENT CODE, COLLIER COUNTY BEAUTIFICATION MASTER PLAN, R.O.W. HANDBOOK AND OTHER APPLICABLE COLLIER COUNTY CODES AND ORDINANCES GOVERNING ROADWAY BEAUTIFICATION PROJECTS.

### EXISTING TRAFFIC CONTROL OR INFORMATION SIGNAGE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAY TRAFFIC SIGNAGE DURING THE INSTALLATION CONTRACT INCLUDES REPLACEMENT OF DAMAGED SIGNS.
- CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER AND COUNTY TRAFFIC OPERATIONS STAFF FOR ANY SIGN RELOCATIONS REQUIRED BY THE PROPOSED LANDSCAPING

### SITE DEMOLITION, PREPARATION, GRADING AND DISPOSAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE REMOVAL AND DISPOSAL OF FILL DIRT FROM SITE AS INDICATED WITHIN THE PLANS, NOTES AND SPECIFICATIONS.
- ALL ROCKS LARGER THAN ONE (1) INCH IN DIAMETER SHALL BE REMOVED FROM THE TOP FOUR (4) INCH OF SOIL IN PROPOSED TURF AND ED AREAS.

## LINE OF SIGHT CALCULATION NOTES:

### LEFT TURN FROM MEDIAN DESIGN NOTES:

- DESIGN PARAMETERS ARE DERIVED FROM FDOT INDEX NO 700 (2016-2017)
- CALCULATIONS ASSUME DESIGN SPEED OF 45, PASSENGER TYPE VEHICLE, 3 LANES CROSSED.
- WHEN MEDIANS ARE ADJACENT TO LEFT HAND TURN LANE(S), PLANTINGS ARE LIMITED TO GROUND COVER FOR THE FIRST 100' FROM THE MEDIAN NOSE. SUCH LIMITATIONS SUPERCEDE CLEAR SIGHT AREAS DEFINED BY DB. WHERE SIGHT LINES DO NOT CROSS MEDIANS, NO CALCULATIONS OR DIMENSIONS FOR DB ARE SHOWN.
- CALCULATIONS ASSUME HORIZONTAL CLEARANCE OF 6' ON BOTH SIDES OF MEDIAN OPPOSITE OF CAR.
- THE DISTANCE DB IS CALCULATED BY THE FOLLOWING FORMULA:  

$$DB = DA (W/W+12)$$
- TREE SPACING WITHIN LIMITS OF SIGHT WINDOW:  
 LESS THAN 4" AND LESS THAN OR EQUAL TO 11" TRUNK CALIPER: 40 FT. ON CENTER  
 GREATER THAN 11" AND LESS THAN OR EQUAL TO 18" TRUNK CALIPER: 135 FT. ON CENTER

### LEFT TURN FROM MINOR ROAD DESIGN NOTES:

- DESIGN PARAMETERS ARE DERIVED BY FDOT INDEX NO 700 (2016-2017)
- CALCULATIONS ASSUME DESIGN SPEED OF 45, PASSENGER TYPE VEHICLE, 6 LANE DIVIDED, MEDIANS 22' WIDE OR LESS
- LINE OF SIGHT ORIGIN IS 14'-6" BACK FROM CLOSEST TRAVEL LANE MARKING
- CALCULATIONS AND LINES OF SIGHT FOR DL AND DR WERE NOT GENERATED, SINCE THEY DO NOT AFFECT THE AREAS OF DESIGN.
- THE LIMIT OF MEDIAN SIGHT OBSTRUCTION (DM), IS DETERMINED BY THE APPROPRIATE TABLE SHOWN ON SHEET 6.
- TREE SPACING WITHIN LIMITS OF SIGHT WINDOW:  
 LESS THAN 4" AND LESS THAN OR EQUAL TO 11" TRUNK CALIPER: 40 FT. ON CENTER  
 GREATER THAN 11" AND LESS THAN OR EQUAL TO 18" TRUNK CALIPER: 135 FT. ON CENTER
- GREATER THAN 11" AND LESS THAN OR EQUAL TO 18" TRUNK CALIPER: 135 FT. ON CENTER

## LANDSCAPE INSTALLATION NOTES:

- A SET OF CONSTRUCTION DOCUMENTS AND/OR APPROVED CODE-REQUIRED PLANS SHALL BE ON SITE AT ALL TIMES.
- ALL UTILITIES, EASEMENTS, RIGHT-OF-WAY, OWNERSHIP, AND/OR OTHER SURVEY DATA SHALL BE VERIFIED BY THE GENERAL CONTRACTOR, SITEWORK CONTRACTOR, AND/OR LANDSCAPE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
- COMPLIANCE / PERMIT ACQUISITION AND/OR DISPLAY IS REQUIRED FOR CODE-RELEVANT REQUIREMENTS (SUCH AS, BUT NOT LIMITED TO: REMOVALS, TRIMMING, REPLACEMENT, ETC.).
- VERIFY PLANT QUANTITIES AND SPECIFICATIONS WITH THE LANDSCAPE ARCHITECT (ALSO REFERENCED AS "L.A." HEREFTER). NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE NOTED. PLANTING PLAN SHALL TAKE PRECEDENCE OVER 'PLANT LIST QUANTITIES.' THE L.A. RESERVES THE RIGHT FOR MATERIAL REJECTION IF THE INSTALLATION DOES NOT CORRESPOND TO THE PLANT LIST 'SPECIFICATION / REMARK'.
- PLANT MATERIAL IS TO BE FLORIDA GRADE #1 MINIMUM AND FLORIDA FANCY FOR PLANT MATERIAL SPECIFIED AS "SPECIMEN." TREES ARE TO BE CONSIDERED SINGLE TRUNK AND MEET THE MINIMUM STANDARD FOR CODE WITHIN THE APPLICABLE JURISDICTION.
- SIZES/SPECIFICATIONS ARE CONSIDERED MINIMUM. INSTALLATION MATERIAL IS TO MEET OR EXCEED THESE REQUIREMENTS - VERIFY ANY DISCREPANCY PRIOR TO MATERIAL PURCHASE, DELIVERY, AND/OR INSTALLATION.
- THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF PLANT MATERIAL WITH THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION - CONTACT THE L.A. FOR SPECIFIC GUIDELINES. IF A SITE CONFLICT / POTENTIAL IS NOTED, NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO MATERIAL INSTALLATION. THE L.A. RESERVES THE RIGHT FOR MATERIAL RELOCATION IF THE INSTALLATION DOES NOT CORRESPOND TO THE PLANTING PLAN.
- THE L.A. OF RECORD MUST MEET WITH COLLIER COUNTY AND THE LANDSCAPE CONTRACTOR TO TAG ALL TREES FOR RELOCATION AND TAG THE NEW LOCATIONS FOR REPLACEMENT.
- THE LANDSCAPE CONTRACTOR AND/OR IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGED SITE UTILITIES, INFRASTRUCTURE, ETC. REPAIR / REPLACE SHALL BE A REQUIREMENT.
- VERIFY SITE REMOVALS, RELOCATIONS, AND/OR PROTECTED ITEMS PRIOR TO BID PREPARATION. THIS MAY INCLUDE BUT NOT BE LIMITED TO: SOD, SOIL, PLANT MATERIAL, STUMPS, ETC. THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO COMPLETE WORK AS OUTLINED WITH THE PLANTING PLAN(S), SPECIFICATIONS, AND NOTES.
- QUANTITIES AND SPECIFICATION ARE SUBJECT TO ADJUSTMENT, RELOCATION, AND/OR REMOVAL DURING OR AFTER THE INSTALLATION AND SUBSEQUENT APPROVAL PROCESS BY THE L.A.
- EXOTIC(S) OR NUISANCE PLANTS AS DEFINED BY THE LOCAL AGENCY(IES) SHALL SUPERCEDE STATE REQUIREMENTS; HOWEVER, THE FLORIDA EXOTIC PEST PLANT COUNCIL (FLEPPC) AND/OR UF-IFAS STANDARDS SHALL BE USED AS A DATABASE TO JUSTIFY REMOVALS IF NO LOCAL ORDINANCE/CODE REQUIREMENT EXISTS.
- THE LANDSCAPE CONTRACTOR SHALL EXECUTE PRUNING VIA A CERTIFIED ARBORIST AND USING STANDARDS AS ESTABLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. ALL PRUNING, UPON REQUEST, SHALL BE ADVISED BY THE L.A.
- TREES AND PALMS OVER 9' IN HEIGHT SHALL BE STAKED.
- THE LANDSCAPE CONTRACTOR AND/OR IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR:
  - PLANT WARRANTIES AND REPLACEMENTS, AS SPECIFIED WITHIN THEIR RESPECTIVE AGREEMENT(S)
  - PLANT MATERIAL MAINTENANCE UNTIL "SUBSTANTIAL COMPLETION"
  - PLANT MATERIAL PROTECTION ADEQUACY
  - SCOPE OF WORK VERIFICATION AND EXECUTION
  - COORDINATION OF ALL SUBCONTRACTOR(S)
- THE OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR:
  - PROVIDING FINAL GRADE, SITE ACCESS, SECURITY OF THE SITE
  - CONTRACT REVIEW AND ACCEPTANCE OF TERMS
  - PLANT / IRRIGATION MAINTENANCE COORDINATION
  - PAYMENT MILESTONES.
- FERTILIZATION CRITERIA:
  - APPLICATION - ALL COLLIER COUNTY ORDINANCES AND FLORIDA STATUTES ARE TO BE FOLLOWED.
  - SPECIFICATION - USE UF/IFAS RECOMMENDED RATES: SLOW RELEASE (SRN), 1.0 LBS. N / 1,000sf

		DESIGNED BY: D.N.		 <p>Q. Grady Minor and Associates, P.A. 3800 Via Del Rey Bonita Springs, Florida 34134</p> <p>Civil Engineers • Land Surveyors • Planners • Landscape Architects Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151 Business LC 26000266 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380</p>	<b>8th Street Improvements</b>		MUNICIPALITY: CITY OF NAPLES
		DRAWN BY: tpb-18			LANDSCAPE NOTES (1 OF 4)		SEC/TWNRGE: 34/49S & 3/50S/25E
		APPROVED: D.N.					DATE: AUGUST, 2018
		JOB CODE: CN007					SUBMITTAL TYPE: CONTRACT PLANS, 100%
Revision	Date	Description	By	SCALE: N/A			SHEETLS-31OF 34

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**LANDSCAPE NOTES:**

1. THESE SPECIFICATIONS ARE IN ADDITION TO COLLIER COUNTY AND/OR FDOT STANDARD SPECIFICATIONS AND DESIGN STANDARDS
2. CONTRACTORS ARE ADVISED TO REFER TO THE PROJECT TECHNICAL SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND COMPLY WITH ALL APPLICABLE COUNTY AND STATE ORDINANCES, STATUES OR POLICY REQUIREMENTS RELATED TO THE CLEARING AND GRUBBING, SOIL PLACEMENT, LANDSCAPE AND IRRIGATION PROJECT WORK.
4. LICENSES AND CERTIFICATIONS: THE LANDSCAPE CONTRACTOR SHALL BE PROPERLY REGISTERED WITH THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY AND BE A CERTIFIED LANDSCAPE CONTRACTOR BY THE FLORIDA NURSERY, GROWERS, AND LANDSCAPE ASSOCIATION AND BE A CERTIFIED ARBORIST BY THE INTERNATIONAL SOCIETY OF ABRORICULTURE. SUBMIT CERTIFICATIONS PRIOR TO THE PRE-CONSTRUCTION MEETING.
5. **SUBMITTALS:**  
SUPPLY THE FOLLOWING ITEMS AND SUBMIT TO THE LANDSCAPE ARCHITECT OF RECORD TO REVIEW:
  - a. HERBICIDE MANUFACTURER'S LABEL, CERTIFICATIONS AND SPECIFICATIONS PRIOR TO PRE-CONSTRUCTION MEETING.
  - b. PREPARED BACKFILL SOIL CERTIFICATION AND TEST ANALYSIS PRIOR TO PER-CONSTRUCTION MEETING.
  - c. FERTILIZER ANALYSIS AND MANUFACTURER'S LABEL SHOWING RECOMMENDED APPLICATION RATES.
  - d. EXAMPLE PHOTO SUBMITTALS OF ALL PLANT MATERIALS THAT CLEARLY SHOWS CLEAR TRUNK HEIGHT, ROOT BALL MEASUREMENT, FOLIAGE, AND EVIDENCE OF REGENERATED ROOTS WHERE APPLICABLE. PHOTOS SHALL CONTAIN MEASURING DEVICE TO SHOW HEIGHTS. PHOTOS SHALL BE SUBMITTED FOR EACH FOR EACH PLANT SPECIES AND CONVEY THE MINIMUM CHARACTERISTICS TO DETERMINE THAT THE PLANTS MEET A FLORIDA GRADES & STANDARDS NUMBER ONE OR BETTER GRADE.
  - e. SAMPLE OF MULCH MATERIAL
  - f. SUBMIT CERTIFIED AS-BUILT/RECORD DRAWING PLANS TO THE LANDSCAPE ARCHITECT OF RECORD AND THE PROJECT MANAGER WITHIN 14 DAYS FROM THE PROJECT'S ACCEPTANCE.
  - g. SAMPLES OF ALL IRRIGATION MAIN LINE AND VALVE WIRING COMPONENTS AND/OR DATA SHEET.
6. THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY UTILITY CONFLICTS BEFORE CONSTRUCTION BEGINS. A SEPARATE UTILITY PERMIT MAY BE REQUIRED FOR ANY UTILITY CONFLICT WORK OR DIRECTIONAL BORE WITHIN THE PROJECT WORK AREA.
7. **UTILITY LOCATES:** THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CHECK WITH SUNSHINE STATE ONE-CALL OF FLORIDA / "811", AND LOCAL UTILITY AGENCIES FOR CURRENT CONTACT INFORMATION AND LOCATION OF ALL UTILITIES PER FLORIDA STATUE 553.851 (1979)) OR AS AMENDED BEFORE BEGINNING WORK.
8. PRIOR TO EXCAVATION THE CONTRACTOR SHALL FIELD LOCATE ALL ABOVE GROUND, AT GRADE, AND UNDERGROUND UTILITIES. ALL AT GRADE UTILITY BOXES AND MANHOLE ACCESS POINTS WITH THE PROJECT WORK AREA SHALL BE MARKED AND BARRICADED OFF FOR PROTECTION. UTILITY CONFLICTS:
9. **M.O.T PLANS:** CONTRACTOR SHALL PREPARE AND SUBMIT A MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL BY THE PROJECT MANAGER PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE MAINTENANCE OF TRAFFIC PLAN SHALL COMPLY WITH COLLIER COUNTY'S MOT POLICY AND/OR THE FDOT TRAFFIC CONTROL 600 SERIES INDEXES.
10. **SAFETY:** THE LANDSCAPE CONTRACTORS IS RESPONSIBLE FOR ALL EMPLOYEE & EQUIPMENT SAFETY. LOCAL AND REGIONAL SAFETY PROCEDURES SHALL BE STRICTLY ADHERED TO.
11. **PLAN DEVIATIONS:** THE LANDSCAPE ARCHITECT SHALL APPROVE ANY DEVIATIONS FROM THE PLANS THAT AFFECT THE DESIGN INTENT. INSTALL NO MATERIALS THAT WILL BLOCK OR CREATE CONFLICTS WITH SIGNS, LIGHTS, OVERHEAD AND UNDERGROUND UTILITIES, ACCESS WAYS, GATES, FIRE HYDRANTS, FPL RIGHT TREE/RIGHT PLACE SETBACKS, FDOT MAINTENANCE RATING PROGRAM AND ANSI Z-133 UTILITY REQUIREMENTS. INSTALL TREES AND PALMS A MINIMUM OF (8) FEET FROM ANY FIRE PROTECTION EQUIPMENT OR DEVICES. IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF RECORD WHEN ANY OF THESE ISSUES ARE ENCOUNTERED.
12. **LITTER REMOVAL AND MOWING:** LITTER REMOVAL AND MOWING WITHIN THE CONTRACT DESIGNATED WORK AREAS SHALL BE PERFORMED THROUGHOUT THE INSTALLATION PERIOD UNTIL FINAL ACCEPTANCE BY THE COUNTY.
13. **PLAN AVAILABILITY:** LANDSCAPE CONTRACTOR SHALL KEEP A FIELD SET OF PLANTING AND IRRIGATION DRAWINGS AND LANDSCAPE SPECIFICATIONS ON SITE AT ALL TIMES DURING THE CONSTRUCTION PHASE.
14. LOCATION OF PLANT MATERIALS (TREES, PALMS, SHRUBS, GROUND COVERS AND VINES), PAVERS, OR OTHER LANDSCAPE FEATURES MAY BE RELOCATED ON SITE AT THE DISCRETION OF THE LANDSCAPE ARCHITECT, OR PROJECT MANAGER.

15. FRANGIBLE AND NON-FRANGIBLE TREES ARE REQUIRED TO MEET THE MINIMUM 6-FOOT HORIZONTAL CLEARANCE IN THE MEDIANS WITH CURBS, AND 14'-6" HORIZONTAL CLEARANCE FOR NON-CURBED MEDIANS PER FDOT INDEX 700.
16. NO LARGE TYPE TREES OR PALMS SHALL BE INSTALLED WITHIN 3 FOOT OF A 24" DEPTH IRRIGATION MAIN LINE. IF LARGE TREES OR PALMS ARE TO BE PLANTED WITHIN 3 FEET OR ON TOP OF THE MAIN LINE, IT SHALL BE ENCASED WITHIN A SCHEDULE 40 PVC SLEEVE OR BE AT A 4 FT DEPTH.
17. **TREE/PALM UTILITY SETBACKS:** ALL LARGE TREES AND PALMS SHALL BE INSTALLED SO AS TO MAINTAIN A PREFERRED (8) FOOT SETBACK, BUT WITH THE APPROVAL OF UTILITY CAN BE REDUCED TO A (5) FOOT VERTICAL AND HORIZONTAL SEPARATION FROM EXISTING UNDERGROUND UTILITIES. ALL OVERHEAD UTILITIES SHALL HAVE A PLANTING SEPARATION AS PER THE UTILITY AGENCY'S REQUIREMENTS OR RECOMMENDATIONS. REFER TO LANDSCAPE SETBACK SCHEDULE IF OFFSET DEVIATIONS ARE GRANTED.
18. **PROJECT LANDSCAPE CLEARANCES:**

ITEM	CANOPY TREES	PALMS	COLLIER COUNTY DEVIATION TREES	COLLIER COUNTY DEVIATION PALMS
GUARDRAILS	10 ft	10 ft		
LIGHT POLES	25 ft	15 ft		
TRAFFIC SIGNS	10 ft	10 ft		
SIGNAL STRUCTURES	30 ft	20 ft		
UNDERGROUND UTILITIES	8 ft	8 ft		
OVERHEAD UTILITIES	30 ft	20 ft	0 and 3 ft	0 and 3 ft
DRAINAGE STRUCTURES	10 ft	5 ft		
FIRE HYDRANTS	8 ft	8 ft		

DEVIATION OFFSETS ARE BASED UPON USING MEDIUM TO SMALL SIZE CANOPY AND PALM TREES. 3 FOOT OFFSET FOR CANOPY TREES AND PALMS WITH TRUNK CALIPERS EQUAL TO OR LESS THAN 11 INCHES. 0-FOOT OFFSET FOR LARGE SHRUBS/SMALL TREES AND PALMS WITH TRUNK CALIPERS EQUAL TO OR LESS THAN 6 INCHES.

19. **COMMENCEMENT OF WORK NOTIFICATION:** THE CONTRACTOR IS REQUIRED TO NOTIFY PRIOR TO COMMENCEMENT OF WORK UNDER CONTRACT:
  - a. COUNTY PROJECT MANAGER
  - b. LANDSCAPE ARCHITECT OF RECORD
20. **EROSION CONTROL:** ALL EROSION CONTROL AS REQUIRED WITH THE PROJECT WORK AREA SHALL COMPLY WITH THE FDOT EROSION AND SEDIMENT CONTROL MANUAL AND STANDARD SPECIFICATION SECTION 104
21. **STORM WATER DISCHARGE:** THE CONTRACTOR SHALL NOT DURING OR AFTER CONSTRUCTION INTRODUCE ANY FORM OF UN-PERMITTED STORM WATER DISCHARGE INTO THE CANAL, RIGHT-OF-WAY AREAS, OR EASEMENTS.
22. **GRADING:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN TURF AND PLANTING AREAS. HAND RAKE PRIOR TO INSTALLING TURF AND PLANTS. NEW TURF/SOD AREAS ABUTTING EXISTING TURF AREAS SHALL HAVE THE GRADE ADJUSTED PRIOR TO LAYING THE NEW TURF/SOD SO THAT IT BLENDS INTO THE EXISTING SOD EVENLY. STAGGER JOINTS AND MAKE TIGHT WITH NEW AND EXISTING SOD. ALL TURF SOD TO BE ROLLED IMMEDIATELY AFTER INSTALLATION. ALL ROCKS (2) INCHES IN DIAMETER AND GREATER SHALL BE REMOVED AND DISPOSED OF OFF SITE BY CONTRACTOR.
23. **PROJECT MATERIAL DELIVERY:** ALL MATERIALS USED WITHIN THE PROJECT WORK AREA SHALL BE APPROVED BY THE COUNTY PRIOR TO PLACEMENT WITHIN THE PROJECT WORK AREA. MATERIAL CERTIFICATION AND DELIVERY TICKETS OF THE MATERIALS USED WITHIN THE PROJECT AREA SHALL BE PROVIDED TO THE COUNTY PROJECT MANAGER WITHIN 3 DAYS OF DELIVERY. THE FOLLOWING INFORMATION SHALL BE INCLUDED ON THE DELIVERY TICKET AS A MINIMUM:
  - a. MATERIAL SUPPLIER
  - b. DATE AND TIME OF LOADING
  - c. MATERIAL DESCRIPTION AND AMOUNT
  - d. MEDIAN NO. OF MATERIAL PLACEMENT
24. **PLANT LAYOUT APPROVAL:** THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PLANT MATERIAL ON SITE WITH THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THE LANDSCAPE CONTRACTOR SHALL FLAG THE LOCATION OF ALL MAJOR TREES AND PALMS. THE LANDSCAPE ARCHITECT SHALL BE GIVEN A 48 HOUR MINIMUM NOTICE PRIOR IN ORDER TO APPROVE FLAGGED PLANT LOCATIONS.
25. **WEED CONTROL:** AFTER THE WILDFLOWER BED, TREE, AND PALM LOCATIONS HAVE BEEN APPROVED, APPLY POST-EMERGENT HERBICIDE WITH A TRACER DYE TO ALL AREAS THAT ARE TO RECEIVE SUBMIT PRODUCT AND APPLICATION PROCEDURES TO THE ENGINEER FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. APPLICATION SHALL BE MADE A MINIMUM OF (7) DAYS PRIOR TO EXCAVATION.

Revision	Date	Description	By	DESIGNED BY:	D.N.
				DRAWN BY:	tpb-18
				APPROVED:	D.N.
				JOB CODE:	CN007
SCALE:	N/A			 Q. Grady Minor and Associates, P.A. 3800 Via Del Rey Bonita Springs, Florida 34134 Civil Engineers • Land Surveyors • Planners • Landscape Architects Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151 Business LC 26000266 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380	
MUNICIPALITY: CITY OF NAPLES SEC/TWR/RGE: 3449S & 3/50S/25E DATE: AUGUST, 2018 SUBMITTAL TYPE: CONTRACT PLANS, 100% SHEET LS-32 OF 34					

<i>8th Street Improvements</i>	
LANDSCAPE NOTES (2 OF 4)	

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**LANDSCAPE NOTES:** (CONTINUED)

- 26. PREPARED SOIL LAYER: EXISTING SOIL IN PLACE - SEE DETAIL AND SOIL AMENDMENT SPECIFICATIONS ON SHEET 18. SOIL BACKFILL FOR THE INSTALLATION OF SPECIFIED PLANT MATERIALS OR UNSUITABLE PLANTING PIT SOILS SHALL BE A UNIFORM MIX OF 20% DECOMPOSED COMPOST AND 80% NEW SAND, FREE-1/2" OR GREATER. SUBMIT COMPOST MANUFACTURER'S CERTIFIED ANALYSIS TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 27. SHRUB/GROUNDCOVER PLACEMENT: IN MEDIANS THE SHRUB AND GROUNDCOVER PLANTING AREAS SHALL HAVE THE FIRST ROW OF PLANTS OFFSET PER THE MEDIAN PLANTING DETAIL FROM THE BACK OF THE CURB AS A MINIMUM. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE SPACED BETWEEN THE OUTSIDE ROWS TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT TO CREATE A TRIANGULAR PLANTING BETWEEN ROWS.
- 28. PLANTING PITS: PLANTING PITS CONTAINING LIME ROCK OR OTHERWISE UNSUITABLE MATERIAL FOR PLANT GROWING SHALL HAVE THE MATERIAL REMOVED PER INDEX 544 PLANTING PITS AND UNSUITABLE MATERIAL SHALL BE REPLACED WITH PREPARED SOIL LAYER MATERIAL. EXISTING SOIL BELOW THE PLANTING PIT SHALL BE LOOSENED OR SCARIFIED AN ADDITIONAL (6) INCH MINIMUM DEPTH TO PROVIDE FOR PROPER PERCOLATION OF WATER PRIOR TO BACKFILLING. UPON SCARIFYING THE EXISTING MATERIAL BELOW THE PLANT PIT DEPTH, THE PIT SHALL BE TESTED FOR PERCOLATION. IF IT DOES NOT DRAIN PROPERLY, THEN ADDITIONAL UNSUITABLE MATERIAL MUST BE REMOVED, AND REPLACED WITH SUITABLE MATERIAL AND/OR A HORIZONTAL SUB-DRAIN SYSTEM INSTALLED TO REMOVE STANDING WATER (SEE TREE SUMP DRAIN DETAIL IN DRAWINGS).
- 29. WATERING: DURING THE PROJECT INSTALLATION AND THE TWO YEAR PLANT ESTABLISHMENT AND MAINTENANCE PERIOD, KEEP THE SOIL MOISTURE AT ALL PLANTING AREAS TO A POINT KNOWN AS FIELD CAPACITY (SEE DEFINITION BELOW). IT IS THE CONTRACTOR'S RESPONSIBILITY FOR MONITORING AND APPLYING WATER TO THE PROJECT PLANTINGS UNDER IRRIGATION. SOIL MOISTURE LEVEL SHALL BE TAKEN FROM A FOUR (4) INCH DEEP EXCAVATION, AT WHICH POINT THE SOIL SHALL HOLD TOGETHER, WHICH WILL BE CONSIDERED AS REPRESENTING FIELD CAPACITY.
- 30. PRUNING: PRUNING SHALL COMPLY WITH THE MOST CURRENT ANSI A300 STANDARDS. A CERTIFIED ARBORIST SHALL OVERSEE ALL PRUNING, OPERATIONS AS REQUIRED DURING CONSTRUCTION AND DURING THE THREE YEAR ESTABLISHMENT AND MAINTENANCE PERIOD.
  - a. TO REMOVE ALL CROSSING, DEFLECTING, AND CIRCLING ROOTS.
  - b. TO MAINTAIN FDOT MAINTENANCE RATING PROGRAM REQUIREMENTS AND UTILITY CLEARANCES
  - c. TO MAINTAIN INDEX 546 HORIZONTAL AND VERTICAL CLEARANCES WITH THE LIMITS OF CLEAR SIGHT.
  - d. TO MAINTAIN VISIBILITY OF SIGNS
- 31. MULCH: ALL MULCH SHALL BE 100% SHREDDED MULCH MATERIAL, WHICH SHALL BE APPLIED TO ALL PLANTINGS PER FDOT INDEX 544 TO A MINIMUM DEPTH OF 3 INCHES. INDEX 544 SHALL BE AMENDED TO EXPAND MULCH AREAS SO THAT ALL THE ABOVE GROUND TREE BRACING AND GUYING COMPONENTS ARE WITHIN THE MULCH MINIMUM MULCH DEPTH SHALL BE MAINTAINED THROUGH CONSTRUCTION TO FINAL ACCEPTANCE. ALL TREES AND PALMS PLANTED IN TURF OR PLANTING BEDS SHALL HAVE A 4 FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA.
- 32. POST-CONSTRUCTION FERTILIZATION: APPLY AN 8-2-12+4MG FERTILIZER INCLUDING ALL MICRO-NUTRIENTS. 100% OF THE NITROGEN AND POTASSIUM SHALL BE IN SLOW RELEASE FORM. APPLY AT A RATE OF 1.5 POUNDS OF ACTUAL FERTILIZER PER 100 SQUARE FEET. BEGIN FERTILIZATION SIX MONTHS AFTER INSTALLATION AND REPEAT EVERY (3) MONTHS THROUGHOUT THE PLANT ESTABLISHMENT AND MAINTENANCE PERIOD.

**LANDSCAPE PLANTING NOTES:**

- 1. ALL SMALL PALM SPECIES LOCATED WITHIN THE NARROW END OF A MEDIAN SHALL BE LOCATED IN THE CENTER OF THE MEDIAN, BUT NO CLOSER THAN 6' HORIZONTAL CLEARANCE SETBACK LINE. ALL LARGE PALM SPECIES OR CANOPY TREES LOCATED WITHIN A MEDIAN SHALL NOT BE PLANTED CLOSER THAN 5 FEET FROM THE BACK OF CURB.
- 2. AN 18" WIDE MULCH ZONE SHALL OCCUR BETWEEN THE BACK EDGE OF CURB TO THE PLANT'S MATURE EDGE.
- 3. ALL CANOPY TREES IN TURF AREAS SHALL HAVE A 4 FT. RADIUS MULCH RING.
- 4. ALL SHRUBS AND GROUND COVERS SHALL BE INSTALLED ON SPECIFIED CENTERS, USING TRIANGULAR SPACING WHERE POSSIBLE AND PRACTICAL.
- 5. COUNTY STAFF AND/OR LANDSCAPE ARCHITECT SHALL APPROVE PLANTING BED LAYOUTS PRIOR TO PLANTING.
- 6. THE MATERIAL MAY BE RELOCATED TO VARIOUS LOCATIONS THROUGHOUT COLLIER COUNTY, IF A LOCATION IS NOT CALLED OUT WITHIN THE PLAN SET.
- 7. SHOULD ANY OF THE EXISTING OAKS AND BLACK OLIVES DIE AFTER RELOCATION AND DURING THE WARRANTY PERIOD, CONTRACTOR SHALL SUBMIT A UNIT COST IN THEIR BID TO COVER ANY LOSS.

**GENERAL PROJECT INSTALLATION NOTES:**

- 1. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER AS SPECIFIED BY THE DEPARTMENT OF AGRICULTURE'S "GRADES & STANDARDS FOR NURSERY PLANTS", VOLUME I & II LATEST EDITION.
- 2. ALL SPECIFIED SIZES FOR PLANT MATERIAL SHALL BE CONSIDERED MINIMUM. PLANTS MUST MEET OR EXCEED THESE REQUIREMENTS.
- 3. ALL PLANT MATERIAL INDICATED AS SPECIMEN SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 4. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL PLANT MATERIAL ON SITE WITH THE LANDSCAPE ARCHITECT AND COUNTY STAFF BEFORE PLANTING. ALL TREE AND PALM LOCATIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND COUNTY STAFF PRIOR TO PLANTING.
- 5. MULCH, PLANTS, SEEDING AND SOD QUANTITIES, AS SPECIFIED IN THE PLANT SCHEDULE SHALL BE CONSIDERED ESTIMATES ONLY, SUBJECT TO LUMP SUM BIDS, FIELD COUNTS AND/OR MEASUREMENTS.
- 6. PLANTING BEDS OR AREAS CONTAINING LIMEROCK OR OTHERWISE UNSUITABLE GROWING MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
- 7. THE CONTRACTOR SHALL VERIFY THE LOCATION AND MARK OFF ALL OVERHEAD AND UNDERGROUND UTILITIES ON SITE, AND MUST NOTIFY THE LANDSCAPE ARCHITECT OF ANY POSSIBLE CONFLICTS BEFORE STARING ANY WORK.
- 8. THE CONTRACTOR SHALL PROVIDE TO THE LANDSCAPE ARCHITECT THREE (3) COPIES OF "AS-BUILT/RECORD DRAWINGS" PLAN PRINTS TO INCLUDE HIGHLIGHTING OF ANY CHANGES TO THE APPROVED PERMITTED PLANS.
- 9. THE LANDSCAPE ARCHITECT DANIEL A. NOVAKOVICH, RLA (D.B.A.) GRADY MINOR & ASSOCIATES, P.A. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF INSTALLATION AND/OR CONSTRUCTION NOR THE MAINTENANCE OF TRAFFIC BY THE CONTRACTOR OR SUBCONTRACTORS. UPON VERIFICATION BY THE LANDSCAPE ARCHITECT OF RECORD PLANS WILL BE FORWARDED TO COLLIER COUNTY ROAD MAINTENANCE DIVISION.
- 10. THE COUNTY SHALL TAG ALL LOCATIONS WITH THE DEVELOPER'S LANDSCAPE CONTRACTOR, ARBORIST AND LANDSCAPE ARCHITECT 6 MONTHS PRIOR TO STARTING THE SITE WORK.
- 11. ALL PROPOSED AND/OR PRESERVED EXISTING LANDSCAPING SHOWN ON THESE PLANS REQUIRES CONTINUOUS PROPER HORTICULTURAL MAINTENANCE SERVICES. THESE SERVICES ARE TO BE PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE FOR PROPER PLANT ESTABLISHMENT AND CONTINUED PROPER AND/OR CONTROLLED GROWTH OF THE ABOVE GROUND FOLIAGE AND UNDERGROUND ROOT SYSTEMS.
- 12. ALL CONSTRUCTION OR INSTALLATION SHALL BE IN GENERAL COMPLIANCE WITH THE PLANS, CONTRACT DOCUMENTS, COLLIER COUNTY R.O.W. ORDINANCE CONSTRUCTION HANDBOOK AND STREETScape MASTER PLANS AND THE F.D.O.T. "DESIGN STANDARDS" INDEXES, #102, 300, 544, 700, 600, 611, 612, 613, 617, 622, 623, 625, AND THE F.D.O.T. "PLANS AND PREPARATION MANUAL" VOL , CH. 2, SEC. 2.11.5 & 2.12. LATEST EDITIONS.
- 13. ALL DIRECTIONAL BORING OF CONDUIT/SLEEVEING SHALL COMPLY WITH COLLIER COUNTY'S CURRENT RIGHT-OF-WAY PERMITTING REQUIREMENTS AND/OR THE F.D.O.T "UTILITY ACCOMMODATION MANUAL", JUNE 1993 DOC. No. 710-020-001-C, LATEST EDITION.
- 14. THE CONSTRUCTION BID PRICES FOR THE ITEMS THAT REQUIRE DEMOLITION AND/OR REMOVAL OF EXISTING MATERIALS SHALL INCLUDE THE COST OF DEMOLITION AND PROPER DISPOSAL OF THE EXISTING MATERIALS, SUCH AS ASPHALT PAVING, LIMESTONE SUBBASE, FILL DIRE AND CONCRETE. THE EXISTING DEMOLITIONED MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR.
- 15. CONSTRUCTION BID PRICES SHALL INCLUDE PROVIDING INSPECTION SERVICES AND CERTIFICATIONS OF DENSITY AND CONCRETE TESTING PERFORMED BY AN INDEPENDENT, CERTIFIED AND F.D.O.T. APPROVED LABORATORY OR FIRM.
- 16. ALL PRODUCTS OR MATERIALS TO BE SUPPLIED FOR THE PROJECT WILL HAVE TO HAVE SAMPLES SUBMITTED FOR APPROVAL AS DIRECTED BY THE LANDSCAPE ARCHITECT OR PROJECT MANAGER.
- 17. ALL LARGE CANOPY TREES AND PALMS SHALL BE INSTALLED SO TO TRY AND MAINTAIN A 5 FOOT SEPARATION FROM UNDERGROUND UTILITIES.
- 18. THE M.O.T. (MAINTENANCE OF TRAFFIC) PLAN SHALL COMPLY WITH COLLIER COUNTY'S M.O.T. POLICIES CURRENT EDITION. CONTRACTOR MUST BE VERIFIED FOR M.O.T. COLLIE COUNTY GROWTH MANAGEMENT DEPARTMENT, ROAD MAINTENANCE DIVISION LANDSCAPE SECTION WILL INSPECT AND APPROVE INSTALLATIONS.
- 19. ALL WORK MUST BE COORDINATED WITH THE COLLIER COUNT GROWTH MANAGEMENT DEPARTMENT, ROAD MAINTENANCE DIVISION LANDSCAPE SECTION. CONTACT PAM LULICH AT (239) 252-6291 TO ARRANGE FOR A COORDINATION MEETING PRIOR TO ANY WORK OCCURRING IN THE ROAD RIGHT-OF-WAY.
- 20. LANDSCAPE MAINTENANCE IS CURRENTLY UNDER COLLIER COUNTY MAINTENANCE SPECIFICATIONS AND PROGRAM AND ONCE INSTALLATION IS COMPLETE AND ACCEPTED MAINTENANCE SHALL CONTINUE UNDER COLLIER COUNTY.

				DESIGNED BY: D.N.	<b>GradyMinor</b> Q. Grady Minor and Associates, P.A. 3800 Via Del Rey Bonita Springs, Florida 34134	<i>8th Street Improvements</i>		MUNICIPALITY: CITY OF NAPLES	
				DRAWN BY: tpb-18		LANDSCAPE NOTES (3 OF 4)		SEC/TWR/RGE: 3449S & 3/50S/25E	
				APPROVED: D.N.				DATE: AUGUST, 2018	
				JOB CODE: CN007	Civil Engineers • Land Surveyors • Planners • Landscape Architects Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151 Business LC 26000266 Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380				SUBMITTAL TYPE: CONTRACT PLANS, 100%
				SCALE: N/A					SHEETLS-33OF 34
Revision	Date	Description	By						

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**GENERAL PROJECT INSTALLATION NOTES: (CONTINUED)**

- 21. THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CHECK WITH SUNSHINE STATE ONE-CALL OF FLORIDA/"811" AND UTILITY AGENCIES FOR LOCATION OF ALL UTILITIES PER FLORIDA STATUE 553.851 (1979) OR AMENDED BEFORE BEGINNING WORK.
- 22. RELOCATION OF PALMS AND TREES: CONTRACTOR TO RELOCATED DESIGNATED PALMS AND TREES WITHIN EXISTING ROADWAY MEDIANS AND RIGHT-OF-WAYS AS NOTED TO A LOCATION WITHIN COLLIER COUNTY'S LANDSCAPED AND IRRIGATED ARTERIAL ROADWAYS. COUNTY STAFF SHALL PROVIDE RELOCATION LOCATIONS ONE MONTH PRIOR TO RELOCATION.
  - A. RELOCATION SHALL INCLUDE REMOVAL AND DISPOSAL OF ANY EXISTING PLANT MATERIALS AT THE RELOCATION SITE.
  - B. PLANTING, STAKING, AND MULCHING OF PLANT MATERIALS BEING RELOCATED AND MAKING A CONNECTION TO AN EXISTING IRRIGATION ZONE FOR THE INSTALLATION OF TWO IRRITROL BUBBLERS PER RELOCATED PLANT. INSTALLATION IS TO INCLUDE 3" OF MULCH AND FERTILIZER.
- 23. AS-BUILT RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED TO COLLIER COUNTY ROAD MAINTENANCE, IN AUTOCAD (DWG) FORMAT.

**MOBILIZATION:**

101-1 DESCRIPTION.

PERFORM PREPARATORY WORK AND OPERATIONS IN MOBILIZING FOR BEGINNING WORK ON THE PROJECT, INCLUDING, BUT NOT LIMITED TO, THOSE OPERATIONS NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES, AND INCIDENTALS TO THE PROJECT SITE AND FOR THE ESTABLISHMENT OF TEMPORARY OFFICES, BUILDINGS, SAFETY EQUIPMENT AND FIRST AID SUPPLIES, AND SANITARY AND OTHER FACILITIES. INCLUDE THE COSTS OF BONDS AND ANY REQUIRED INSURANCE AND ANY OTHER PRE-CONSTRUCTION EXPENSE NECESSARY FOR THE START OF THE WORK, EXCLUDING THE COST OF CONSTRUCTION MATERIALS.

101-2 BASIS OF PAYMENT.

101-2.1 WHEN A SEPARATE ITEM IS INCLUDED IN THE PROPOSAL: WHEN THE PROPOSAL INCLUDES A SEPARATE ITEM OF PAYMENT FOR THIS WORK, THE WORK AND INCIDENTAL COSTS SPECIFIED AS BEING COVERED UNDER THIS SECTION WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR THE ITEM OF MOBILIZATION. PAYMENT WILL BE MADE UNDER:

ITEM NO. 101-1 - MOBILIZATION - LUMP SUM.

101-2.2 PARTIAL PAYMENTS: WHEN THE PROPOSAL INCLUDES A SEPARATE PAY ITEM FOR MOBILIZATION AND THE NOTICE TO PROCEED HAS BEEN ISSUED, PARTIAL PAYMENTS WILL BE MADE IN ACCORDANCE WITH THE FOLLOWING:

FOR CONTRACTS OF 120 CONTRACT DAYS DURATION OR LESS, PARTIAL PAYMENT WILL BE MADE AT 50% OF THE BID PRICE PER MONTH FOR THE FIRST TWO MONTHS. FOR CONTRACTS IN EXCESS OF 120 CONTRACT DAYS DURATION, PARTIAL PAYMENT WILL BE MADE AT 25% OF THE BID PRICE PER MONTH FOR THE FIRST FOUR MONTHS. IN NO EVENT SHALL MORE THAN 50% OF THE BID PRICE BE PAID PRIOR TO COMMENCING CONSTRUCTION ON THE PROJECT SITE.

TOTAL PARTIAL PAYMENTS FOR MOBILIZATION ON ANY PROJECT, INCLUDING WHEN MORE THAN ONE PROJECT OR JOB IS INCLUDED IN THE CONTRACT, WILL BE LIMITED TO 10% OF THE ORIGINAL CONTRACT AMOUNT FOR THAT PROJECT. ANY REMAINING AMOUNT WILL BE PAID UPON COMPLETION OF ALL WORK ON THE CONTRACT.

RETAINAGE, AS SPECIFIED IN 9-5, WILL BE APPLIED TO ALL PARTIAL PAYMENTS.

PARTIAL PAYMENTS MADE ON THIS ITEM WILL IN NO WAY ACT TO PRECLUDE OR LIMIT ANY OF THE PROVISIONS FOR PARTIAL PAYMENTS OTHERWISE PROVIDED FOR BY THE CONTRACT.

101-2.3 WHEN NO SEPARATE ITEM IS INCLUDED IN THE PROPOSAL: WHEN THE PROPOSAL DOES NOT INCLUDE A SEPARATE ITEM FOR MOBILIZATION, ALL WORK AND INCIDENTAL COSTS SPECIFIED AS BEING COVERED UNDER THIS SECTION WILL BE INCLUDED FOR PAYMENT UNDER THE SEVERAL SCHEDULED ITEMS OF THE OVERALL CONTRACT, AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.

**FDOT REGULATION & PERMITTING REVIEW PROCESS:**

RIGHT OF WAY REVIEW AND REGULATION:

THE DEVELOPER HAS TWO OPTIONS WHEN CONSTRUCTING A TURN LANE, OR RIGHT-OF-WAY ALTERATIONS IN COLLIER COUNTY WHERE LANDSCAPING AND IRRIGATION EXISTS:

1. OPTION ONE: THE APPLICANT RELOCATES THE LANDSCAPING CONSISTENT WITH THE COUNTY'S FUTURE PLANS, AND RESTORES THE RIGHT-OF-WAY TO THE COLLIER COUNTY STANDARD IN ACCORDANCE WITH THE LANDSCAPE BEAUTIFICATION MASTER PLAN AT THEIR OWN EXPENSE.
  - 1.1. IN ACCORDANCE WITH FDOT REQUIREMENTS, PLANS ARE TO BE PREPARED BY A FLORIDA REGISTERED LANDSCAPE ARCHITECT.
  - 1.2. PLANS ARE TO BE PREPARED FOR TWO PHASES OF CONSTRUCTION: THE FIRST PHASE IS THE REMOVAL AND RELOCATION OF PLANT MATERIAL ALONG WITH THE RECONNECTION OF THE IRRIGATION MAINLINE PRIOR TO ROAD WORK; AND THE SECOND PHASE IS THE RESTORATION OF THE EXISTING LANDSCAPE AND IRRIGATION. PHASE ONE WORK SHALL TAKE PLACE PRIOR TO STARTING THE TURN LANE CONSTRUCTION. THE PLANS SHALL PROVIDE FOR THE RELOCATION OF EXISTING TREES, PALMS, AND POSSIBLY SHRUBS TO IRRIGATED LOCATIONS WITHIN COLLIER COUNTY PER COLLIER COUNTY GMD ROAD MAINTENANCE, LANDSCAPE SECTION. LANDSCAPE ARCHITECTURAL PLANS MUST INDICATE THE RECONNECTION OF THE IRRIGATION SYSTEM THAT ENSURES IRRIGATION WILL FUNCTION AND PROVIDE 100% COVERAGE THROUGH CONSTRUCTION, AND TO ANY LANDSCAPING WITHIN THE AREA THAT WOULD BE AFFECTED BY AN INTERRUPTION IN SERVICE. IN ORDER TO ACHIEVE IRRIGATION OPERATIONS THROUGH CONSTRUCTION, THIS INCLUDES, BUT IS NOT LIMITED TO, DIRECTIONAL BORES, RELOCATION OF WELLS, PUMPS, CONTROLS, AND ALL STANDARD IRRIGATION COMPONENTS.
  - 1.3. IF THERE IS AN INTERRUPTION IN THE IRRIGATION SERVICE, THE DEVELOPER IS RESPONSIBLE FOR WATERING ALL LANDSCAPING THAT IS AFFECTED WITH A WATERING TRUCK UNTIL THE NECESSARY REPAIRS ARE MADE AND THE IRRIGATION SYSTEM IS OPERATIONAL.
  - 1.4. IF A LOCATION IS NOT AVAILABLE FOR THE EXISTING PLANT MATERIAL, A NEW LOCATION WITHIN THE RIGHT-OF-WAY MAY BE PROPOSED PROVIDED IRRIGATION IS AVAILABLE.
  - 1.5. ALL IRRIGATION HEADS, VALVES, BOXES, AND COMPONENTS THAT ARE SALVAGEABLE ARE TO BE REMOVED AND GIVEN TO COLLIER COUNTY ROAD MAINTENANCE LANDSCAPE SECTION.
  - 1.6. THE PLANS SHALL SHOW THE RECONNECTION OF THE MAINLINE, AND PROVIDE FOR SLEEVING OF THE LATERAL LINES THAT MAY BE LOCATED UNDER DRIVEWAYS IN THE FUTURE. THE END OF THE SLEEVES SHALL BE MARKED WITH PANTONE PURPLE OMNI LOCATE BALLS. THE DIRECTIONAL BORE UNDER THE FUTURE TURN LANE/OR MAINLINE, SHALL BE AT A MINIMUM DEPTH OF 36" UNDER THE ROADWAY. (SEE COLLIER COUNTY RIGHT OF WAY HANDBOOK AND COLLIER COUNTY LANDSCAPE AND IRRIGATION SPECIFICATIONS RIGHT OF WAY HANDBOOK).
  - 1.7. THE SECOND PHASE OF DESIGN DEVELOP IS THE RESTORATION PLAN. THE PLANS MUST SHOW RESTORED LANDSCAPE, AND IRRIGATION PLANS WHERE THE SITE IS FREE OF CONSTRUCTION DEBRIS AND MULCHED TO 3" DEPTH.
  - 1.8. IF THERE IS NOT SUFFICIENT ROOM TO PLANT WITHIN THE TURN LANE, BRICK PAVERS ARE TO BE PLACED IN ACCORDANCE WITH THE LANDSCAPE BEAUTIFICATION MASTER PLAN, MATCHING THE EXISTING COLOR, SIZE, AND PATTERN LAYOUT OF THE ROADWAY. THE SUBBASE IS TO BE EITHER 98% COMPACTED AGGREGATE SIX INCHES IN DEPTH OR CONCRETE. THE PAVERS ARE TO BE SAND SET AND MORTARED WITH A RIGID RETRAINING BORDER TO SECURE THE EDGE. ANY DIRECTIONAL BORES ARE TO BE SIX FEET BEYOND THE PAVERS LANDING AREA. ALL LANDSCAPING AND IRRIGATION IS TO BE RESTORED. PLANS ARE TO INDICATE ALL "SITE" LINES PER FDOT STANDARDS.
2. OPTION TWO: REIMBURSE THE COUNTY FOR THE LANDSCAPE AND IRRIGATION IMPROVEMENTS THEY ARE REMOVING AND MODIFYING AND REIMBURSEMENT FOR ANY NEW LANDSCAPE AND IRRIGATION NEEDED TO RESTORE THE MEDIAN AND SIDE OF THE ROAD SO THAT THE ROADWAY RETAINS THE ORIGINAL CHARACTER DESCRIBED IN THE LANDSCAPE BEAUTIFICATION MASTER PLAN.
  - 2.1. PAYMENT FOR ALL LANDSCAPING AFFECTED BY THE CONSTRUCTION OF THE TURN LANE.
  - 2.2. A LANDSCAPE ARCHITECT OR ARBORIST SHALL PROVIDE AN ESTIMATE OF THE LANDSCAPE AND IRRIGATION VALUE WITHIN THE WORK ZONE AREA.
  - 2.3. IN ADDITION, A LANDSCAPE ARCHITECT OR ARBORIST SHALL PROVIDE AN ESTIMATE OF COST OF THE FUTURE IMPROVEMENTS TO THE MEDIAN/TURN LANE AS A RESULT OF THE CONSTRUCTION.
  - 2.4. WITH THE COUNTY'S ACCEPTANCE OF THE PROPOSALS, A CHECK IS TO BE MADE TO "THE BOARD OF COUNTY COMMISSIONERS".
3. CURRENCY: THE LANDSCAPE OPERATIONS MANAGER IS RESPONSIBLE FOR UPDATING THIS PROCESS AND FOR NOTIFYING THE OPERATIONS STAFF OF ANY CHANGES REQUIRED TO THIS ORIGINAL DOCUMENT.

			DESIGNED BY: D.N.	 <p><b>GradyMinor</b>                  Civil Engineers • Land Surveyors • Planners • Landscape Architects                  Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151                  Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380</p>	Q. Grady Minor and Associates, P.A. 3800 Via Del Rey Bonita Springs, Florida 34134	<i>8th Street Improvements</i>			
			DRAWN BY: tpb-18		<b>LANDSCAPE NOTES (4 OF 4)</b>				
			APPROVED: D.N.						
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