

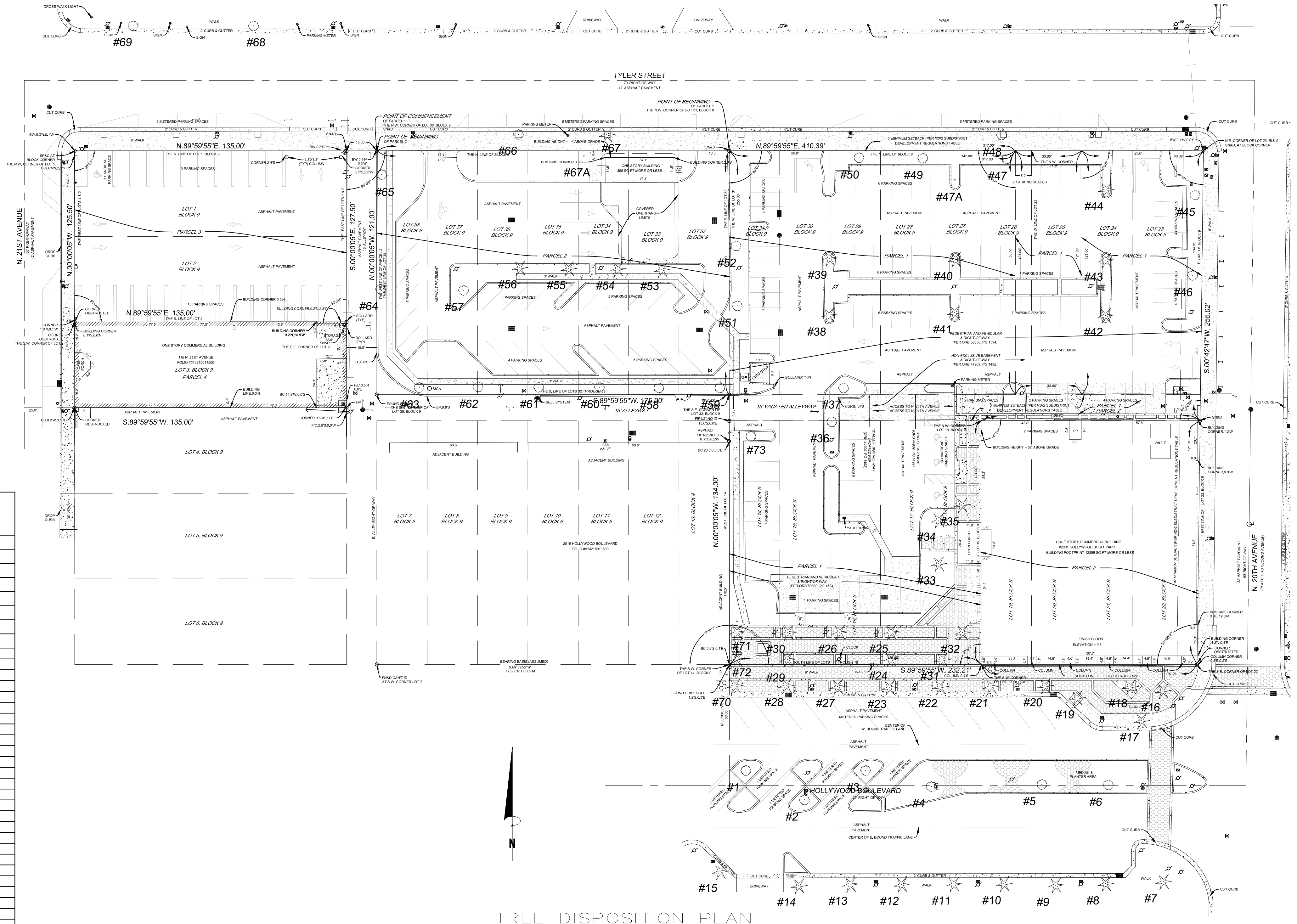
Tree #	Common Name	Species	DBH (inches)	GW Height (feet)	Spread (feet)	Condition	Disposition	Mitigation
1-15	Off site						REMAIN	
16	Medjool Date Palm	Phoenix dactylifera	18	30		Good	REMAIN	
17	Royal Palm	Roystonea regia	14	40		Good	REMAIN	
18	Royal Palm	Roystonea regia	14	40		Good	REMAIN	
19	Royal Palm	Roystonea regia	16	40		Good	REMAIN	
20	Royal Palm	Roystonea regia	21	40		Good	REMAIN	
21	Royal Palm	Roystonea regia	12	40		Good	REMAIN	
22	Royal Palm	Roystonea regia	12	40		Good	REMAIN	
23	Royal Palm	Roystonea regia	18	40		Good	REMAIN	
24	Washington Palm	Washingtonia robusta	9	50		Fair	REMOVE	1 palm
25	Washington Palm	Washingtonia robusta	9	50		Fair	REMOVE	1 palm
26	Washington Palm	Washingtonia robusta	10	50		Fair	REMOVE	1 palm
27	Royal Palm	Roystonea regia	15	40		Good	REMAIN	
28	Royal Palm	Roystonea regia	14	40		Good	REMAIN	
29	Washington Palm	Washingtonia robusta	11	50		Fair	REMOVE	1 palm
30	Washington Palm	Washingtonia robusta	10	50		Fair	REMOVE	1 palm
31	Washington Palm	Washingtonia robusta	10	50		Fair	REMOVE	1 palm
32	Foxtail Palm	Wodyetia bifurcata	8	16		Fair	REMOVE	1 palm
33	Royal Palm	Roystonea regia	18	22		Good	REMOVE	1 palm
34	Royal Palm	Roystonea regia	15	22		Good	REMOVE	1 palm
35	Foxtail Palm	Wodyetia bifurcata	8	16		Fair	REMOVE	1 palm
36	Red Maple	Acer rubrum	7		20	Fair	REMOVE	7"
37	Silver Buttonwood	Conocarpus erectus sericeus	8		20	Poor	REMOVE	8"
38	Solitaire Palm	Ptychosperma elegans	4	14		Fair	REMOVE	1 palm
39	Solitaire Palm	Ptychosperma elegans	4	14		Fair	REMOVE	1 palm
40	Solitaire Palm	Ptychosperma elegans	4	14		Fair	REMOVE	1 palm
41	Solitaire Palm	Ptychosperma elegans	4	14		Fair	REMOVE	1 palm
42	Solitaire Palm	Ptychosperma elegans	4	14		Fair	REMOVE	1 palm
43	Solitaire Palm	Ptychosperma elegans	4	14		Fair	REMOVE	1 palm
44	Solitaire Palm	Ptychosperma elegans	4	14		Fair	REMOVE	1 palm
45	Live Oak	Quercus virginiana	18		35	Good	REMOVE	18"
46	Live Oak	Quercus virginiana	19		30	Good	REMOVE	19"
47	Black Olive	Bucida buceras	16		40	Poor	REMOVE	16"
47A	Solitaire Palm	Ptychosperma elegans	3	12		Poor	REMOVE	1 palm
48	Live Oak	Quercus virginiana	6		15	Poor	REMOVE	6"
49	Live Oak	Quercus virginiana	18		34	Good	REMOVE	18"
50	Live Oak	Quercus virginiana	14		20	Fair	REMOVE	14"
51	Live Oak	Quercus virginiana	12		30	Good	REMOVE	12"
52	Live Oak	Quercus virginiana	18		30	Good	REMOVE	18"
53	Washington Palm	Washingtonia robusta	11	50		Fair	REMOVE	1 palm
54	Washington Palm	Washingtonia robusta	11	50		Fair	REMOVE	1 palm
55	Washington Palm	Washingtonia robusta	11	50		Fair	REMOVE	1 palm
56	Washington Palm	Washingtonia robusta	11	50		Fair	REMOVE	1 palm
57	Live Oak	Quercus virginiana	23		35	Good	REMOVE	23"
58	Crape myrtle	Lagerstroemia indica	5			Good	REMOVE	5"
59	Crape myrtle	Lagerstroemia indica	5			Good	REMOVE	5"
60	Crape myrtle	Lagerstroemia indica	5			Good	REMOVE	5"
61	Crape myrtle	Lagerstroemia indica	8			Good	REMOVE	8"
62	Crape myrtle	Lagerstroemia indica	5			Good	REMOVE	5"
63	Crape myrtle	Lagerstroemia indica	6		20	Good	REMOVE	6"
64	Live Oak	Quercus virginiana	14		30	Good	REMOVE	14"
65	Live Oak	Quercus virginiana	12		28	Good	REMOVE	12"
66	Pink Tabebuia	Tabebuia heterophylla	12		16	Poor	REMOVE	12"
67	Solitaire Palm	Ptychosperma elegans	3	12		Poor	REMOVE	1 palm
67A	Solitaire Palm	Ptychosperma elegans	3	12		Poor	REMOVE	1 palm
68-69	Off site						REMAIN	
70	Royal Palm	Roystonea regia	11	40		Good	REMAIN	
71	Washington Palm	Washingtonia robusta	9	50		Fair	REMOVE	1 palm
72	Washington Palm	Washingtonia robusta	10	50		Fair	REMOVE	1 palm
73	Live Oak	Quercus virginiana	6		10	Poor	REMOVE	6"

Total mitigation required 26 palms
237"

Total mitigation provided 26 x \$350 = \$9100
237"/2 x \$350 = \$41,475

Mitigation (existing trees) \$50,575
Mitigation (code new trees) \$12,600

Total mitigation \$63,175



TREE DISPOSITION PLAN
SCALE: 1" = 30'-0"

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revisions:
12-10-2019
03-02-2020

drawing data:

TREE DISPOSITION PLAN

project number: #19024

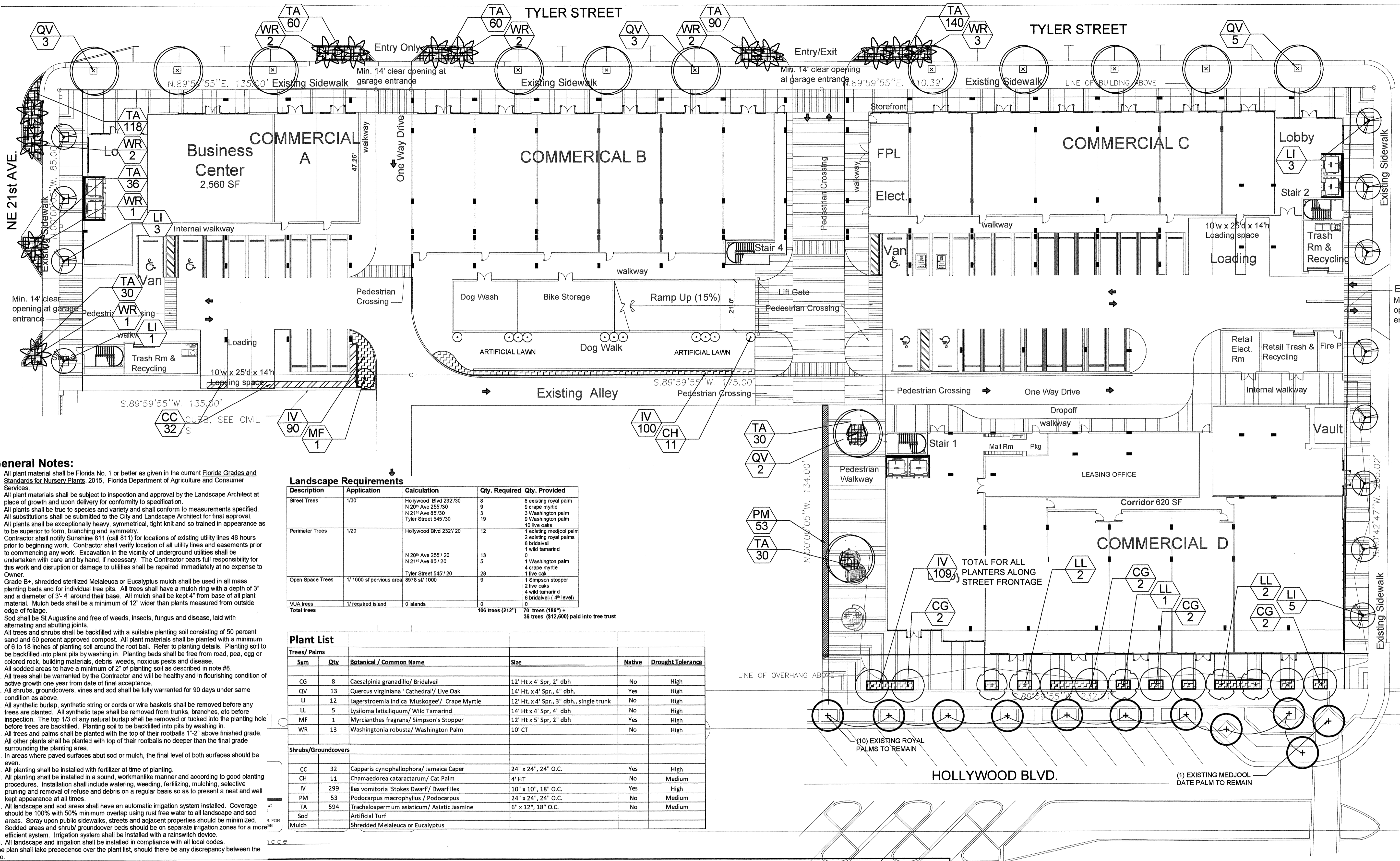
drawing scale: As Shown

drawing date: 01/21/2020

phase:

sheet number: **TD1.00**

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General Notes:

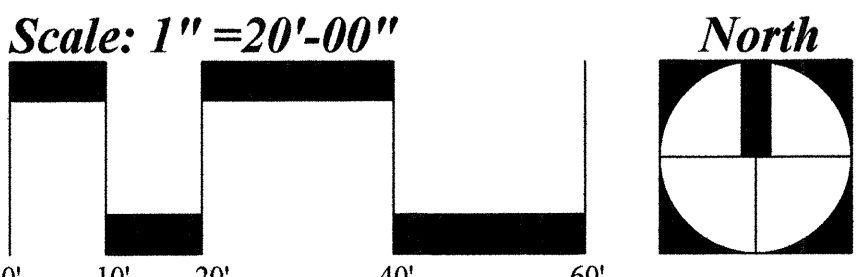
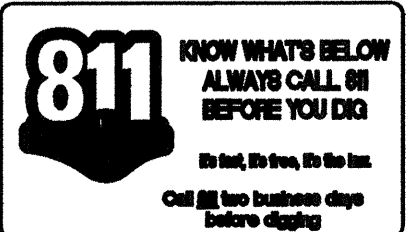
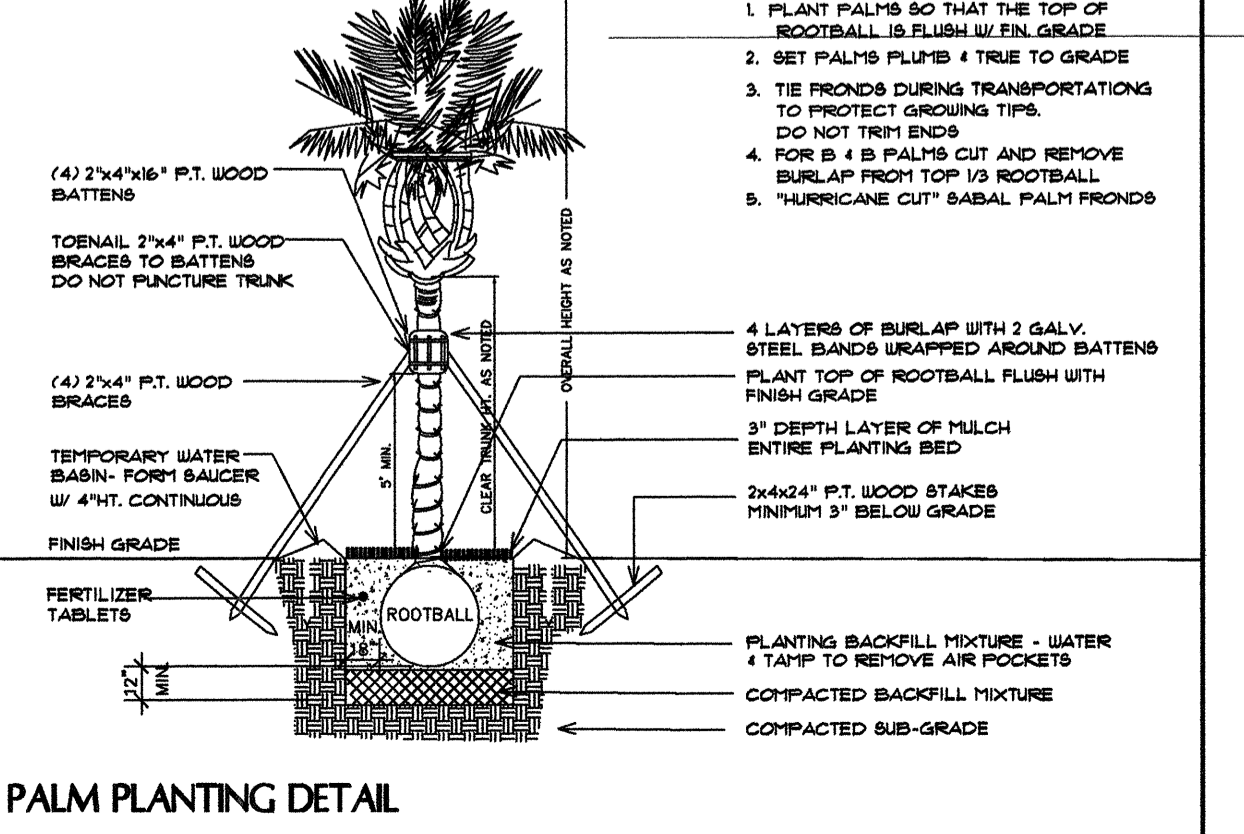
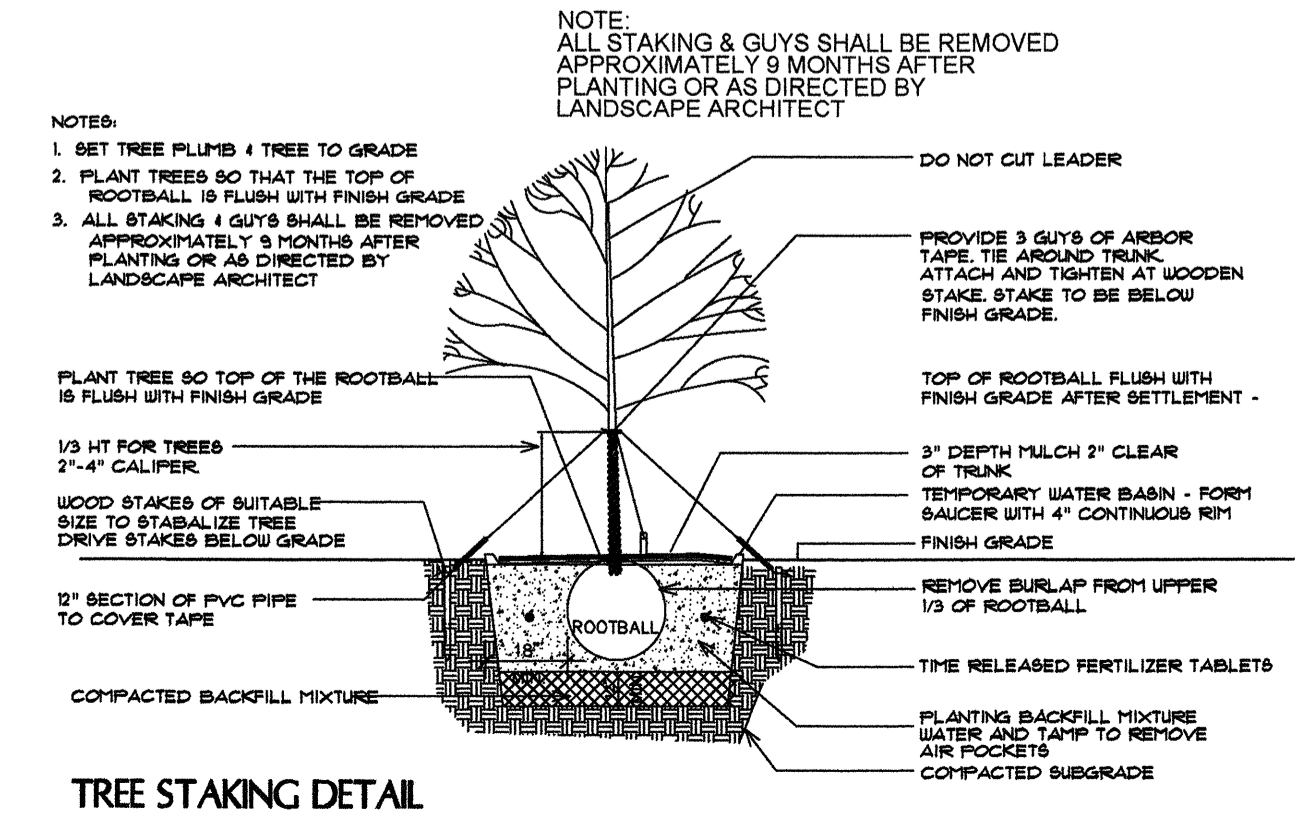
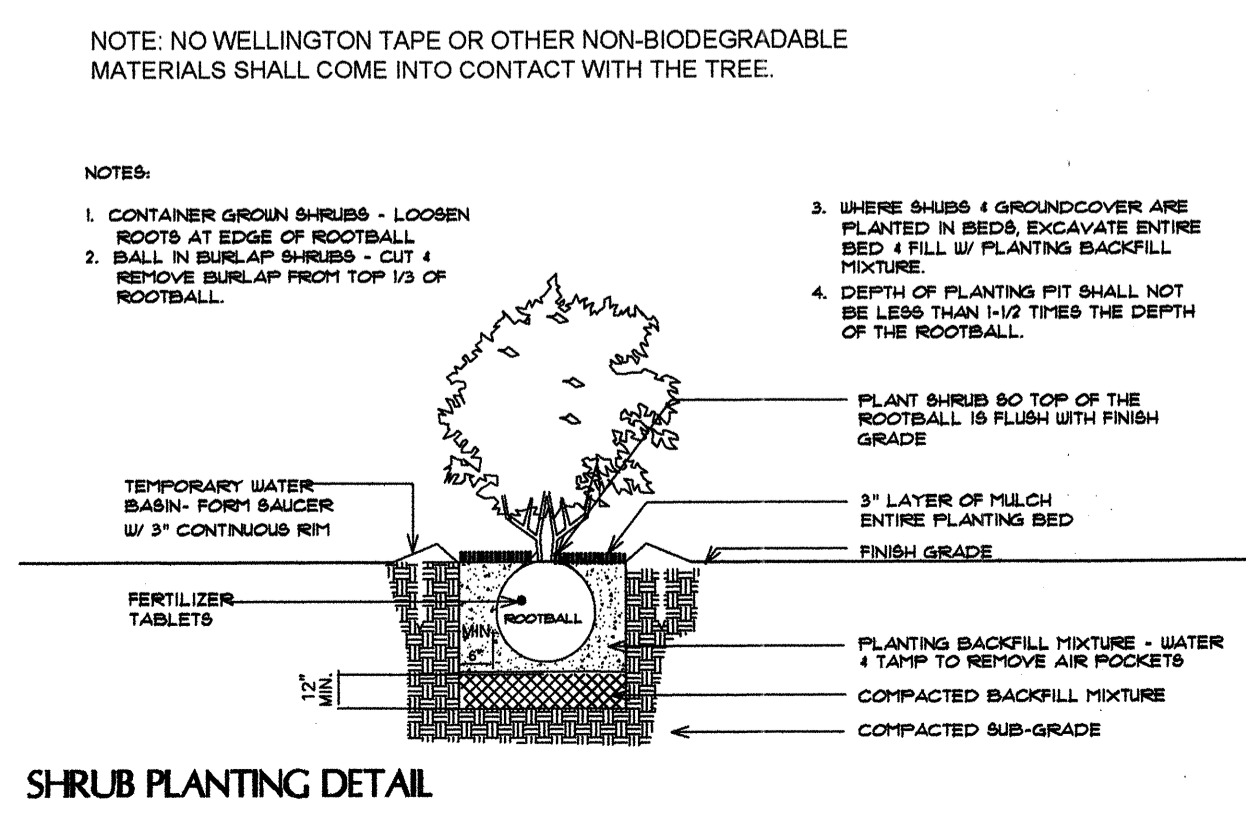
1. All plant material shall be Florida No. 1 or better as given in the current Florida Grades and Standards for Nursery Plants, 2015, Florida Department of Agriculture and Consumer Services.
2. All plant materials shall be subject to inspection and approval by the Landscape Architect at place of growth and upon delivery for conformity to specification.
3. All plants shall be true to species and variety and shall conform to measurements specified. All substitutions shall be submitted to the City and Landscape Architect for final approval.
4. All plants shall be exceptionally heavy, symmetrical, light knit and so trained in appearance as to be superior to form, branching and symmetry.
5. Contractor shall notify Sunshine 911 (call 911) for locations of existing utility lines 48 hours prior to beginning work. Contractor shall verify location of all utility lines and easements prior to commencing any work. Excavation in the vicinity of underground utilities shall be undertaken with care and by hand, if necessary. The Contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired immediately at no expense to Owner.
6. Grade 3+ shredded sterilized Melaleuca or Eucalyptus mulch shall be used in all mass planting beds and for individual tree pits. All trees shall have a mulch ring with a depth of 3" and a diameter of 3'-4' around their base. All mulch shall be kept 4" from base of all plant material. Mulch beds shall be a minimum of 12" wider than plants measured from outside edge of foliage.
7. Sod shall be St Augustine and free of weeds, insects, fungus and disease, laid with alternating and abutting joints.
8. All trees and shrubs shall be backfilled with a suitable planting soil consisting of 50 percent sand and 50 percent approved compost. All plant materials shall be planted with a minimum of 6 to 18 inches of planting soil around the root ball. Refer to planting details. Planting soil to be backfilled into plant pits by washing in. Planting beds shall be free from road, pea, egg or colored rock, built-up materials, debris, weeds, noxious pests and disease.
9. All sodded areas to have a minimum of 2" of planting soil as described in note #8.
10. All trees shall be warranted by the Contractor and will be healthy and in flourishing condition of active growth one year from date of final acceptance.
11. All shrubs, groundcovers, vines and sod shall be fully warranted for 90 days under same condition as above.
12. All synthetic burlap, synthetic string or cords or wire baskets shall be removed before any trees are planted. All synthetic tape shall be removed from trunks, branches, etc before inspection. The top 1/3 of any natural burlap shall be removed or tucked into the planting hole before trees are backfilled. Planting soil to be backfilled into pits by washing in.
13. All trees and palms shall be planted with the top of their rootballs 1"-2" above finished grade. All other plants shall be planted with top of their rootballs no deeper than the final grade surrounding the planting area.
14. In areas where paved surfaces abut sod or mulch, the final level of both surfaces should be even.
15. All planting shall be installed with fertilizer at time of planting.
16. All planting shall be installed in a sound, workmanlike manner and according to good planting procedures. Installation shall include watering, weeding, fertilizing, mulching, selective pruning and removal of refuse and debris on a regular basis so as to present a neat and well kept appearance at all times.
17. All landscape and sod areas shall have an automatic irrigation system installed. Coverage should be 100% with 50% minimum overlap using rust free water to all landscape and sod areas. Spray upon public sidewalks, streets and adjacent properties should be minimized. Sodded areas and shrub/groundcover beds should be on separate irrigation zones for a more efficient system. Irrigation system shall be installed with a rainswitch device.
18. All landscape and irrigation shall be installed in compliance with all local codes. The plan shall take precedence over the plant list, should there be any discrepancy between the two.

Landscape Requirements

Description	Application	Calculation	Qty. Required	Qty. Provided
Street Trees	1/30'	Hollywood Blvd 232/30 N 20th Ave 255/30 N 21st Ave 85/30 Tyler Street 545/30	8 9 3 19	8 existing royal palm 9 crape myrtle 3 Washington palm 9 Washington palm 10 live oaks
Perimeter Trees	1/20'	Hollywood Blvd 232/20	12	2 existing medjool palm 2 existing royal palms 8 bridalveil 1 wild tamarind 0
Open Space Trees	1/1000 sf pervious area	N 20th Ave 255/20 N 21st Ave 85/20 Tyler Street 545/20	13 5 28	1 Washington palm 4 crape myrtle 1 live oak 1 Simpson stopper 2 live oaks 4 wild tamarind 6 bridalveil (4th level)
VIA trees	1/required island	0 islands	0	0
Total Trees			106 trees (212')	70 trees (189') 38 trees (\$12,600) paid into tree trust

Plant List

Sym	Qty	Botanical / Common Name	Size	Native	Drought Tolerance
CG	8	Caesalpinia granadillo/ Bridalveil	12' Ht x 4' Spr, 2" dbh	No	High
QV	13	Quercus virginiana "Cathedral"/ Live Oak	14' Ht. x 4' Spr., 4" dbh.	Yes	High
LI	12	Lagerstroemia indica "Muskegee"/ Crape Myrtle	12' Ht. x 4' Spr., 3" dbh., single trunk	No	High
LL	5	Lysiloma latisiliquum/ Wild Tamarind	14' Ht x 4' Spr., 4" dbh	No	High
MF	1	Myrcianthes fragrans/ Simpson's Stopper	12' Ht x 5' Spr., 2" dbh	Yes	High
WR	13	Washingtonia robusta/ Washington Palm	10' CT	No	High
Shrubs/Groundcovers					
CC	32	Capparis cynophallophora/ Jamaica Caper	24" x 24", 24" O.C.	Yes	High
CH	11	Chamaedorea cataractarum/ Cat Palm	4' HT	No	Medium
IV	299	Ilex vomitoria 'Stokes Dwarf' / Dwarf Ilex	10" x 10", 18" O.C.	Yes	High
PM	53	Podocarpus macrophyllus / Podocarpus	24" x 24", 24" O.C.	No	Medium
TA	594	Trachelospermum asiaticum/ Asiatic Jasmine	6" x 12", 18" O.C.	No	Medium
Sod		Artificial Turf			
Mulch		Shredded Melaleuca or Eucalyptus			



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Site and Planting Revisions	12-5-2019
Site and Planting Revisions	1-29-2020
Site and Planting Revisions	3-09-2020

drawing data:

LANDSCAPE PLAN

project number: #19024

drawing scale: As Shown

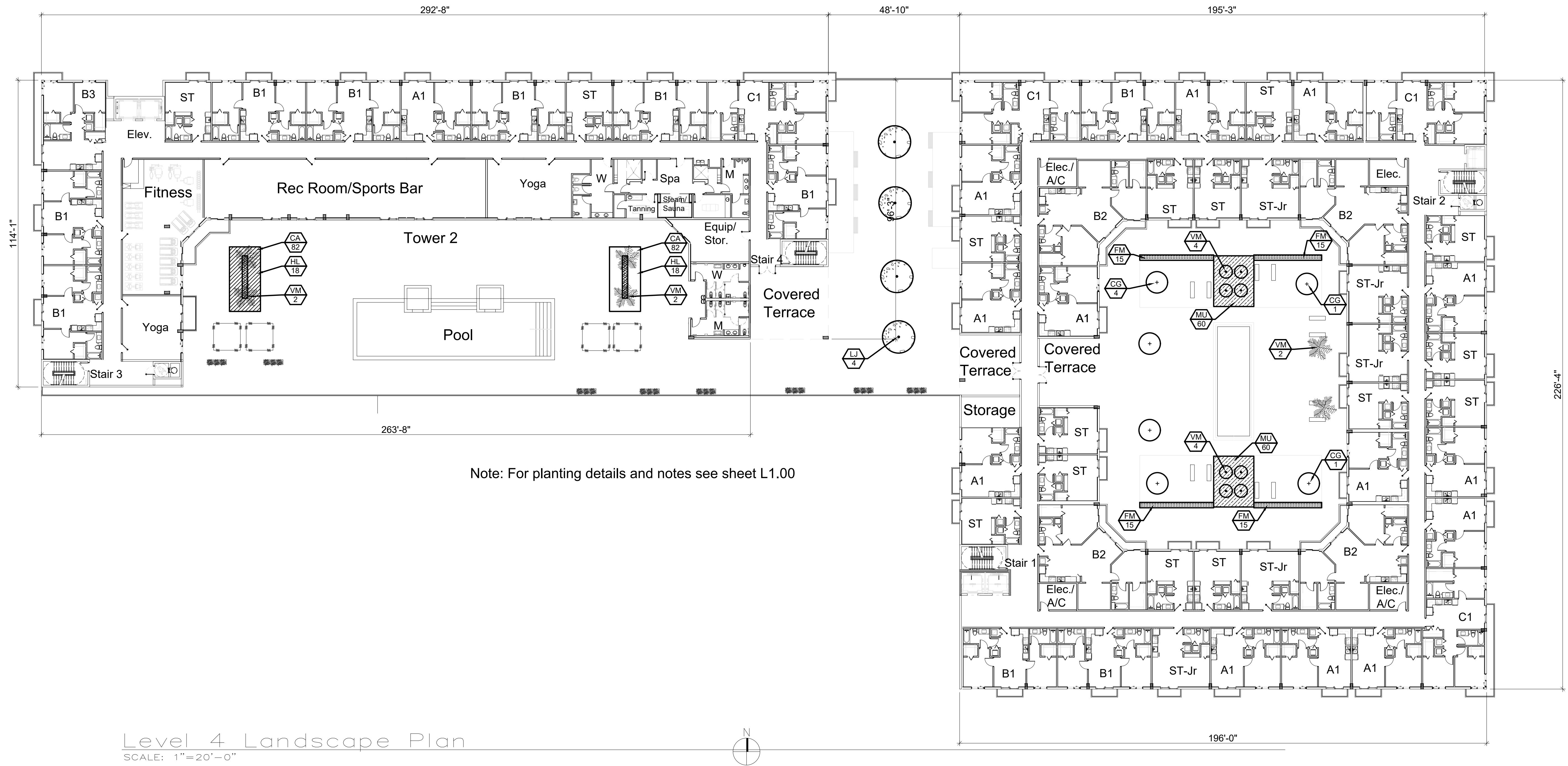
drawing date: 08/29/2019

phase:

sheet number: L1.00

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Note: For planting details and notes see sheet L1.00

Level 4 Landscape Plan
SCALE: 1" = 20'-0"

Plant List for Sheet L-3

Trees/ Palms					
Sym	Qty	Botanical / Common Name	Size	Native	Drought Tolerance
VM	14	Vetichia montgomeryana/ Montgomery Palm	12'-14' Ht, triple trunk	No	High
LJ	4	Ligustrum japonicum/ Wax Privet	6' Ht x 3' Spr, std	No	High
CG	6	Caesalpinia granadillo/ Bridalveil Trees	8' Ht, 1 1/2" cal	No	High
Shrubs/Groundcovers					
CA	164	Carissa macrocarpa 'Emerald Blanket'/ Dwarf Carissa	12" x 14", 18" O.C.	No	High
FM	60	Ficus microcarpa 'Green Island'/ Green Island	14" x 16", 24" O.C.	No	High
MU	120	Muhlenbergia capillaris/ Muhly Grass	18" x 18", 24" O.C.	Yes	High
HL	36	Hymenocallis latifolia/ Spider Lily	14" x 12", 18" O.C.	Yes	High
Mulch		Shredded Melaleuca or Eucalyptus			

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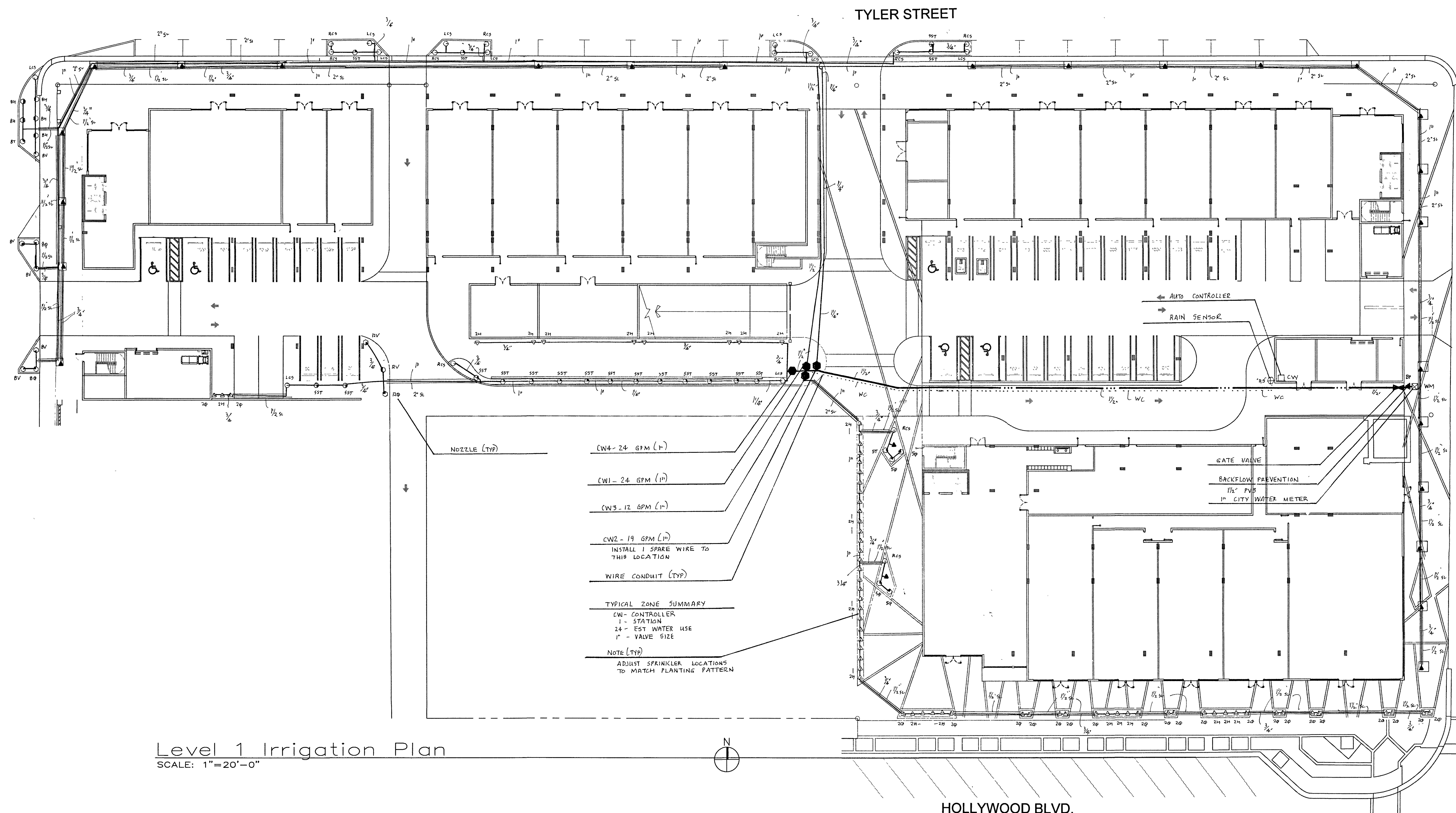
revisions :
 12-10-2019

drawing data :
LEVEL 4
LANDSCAPE
PLAN

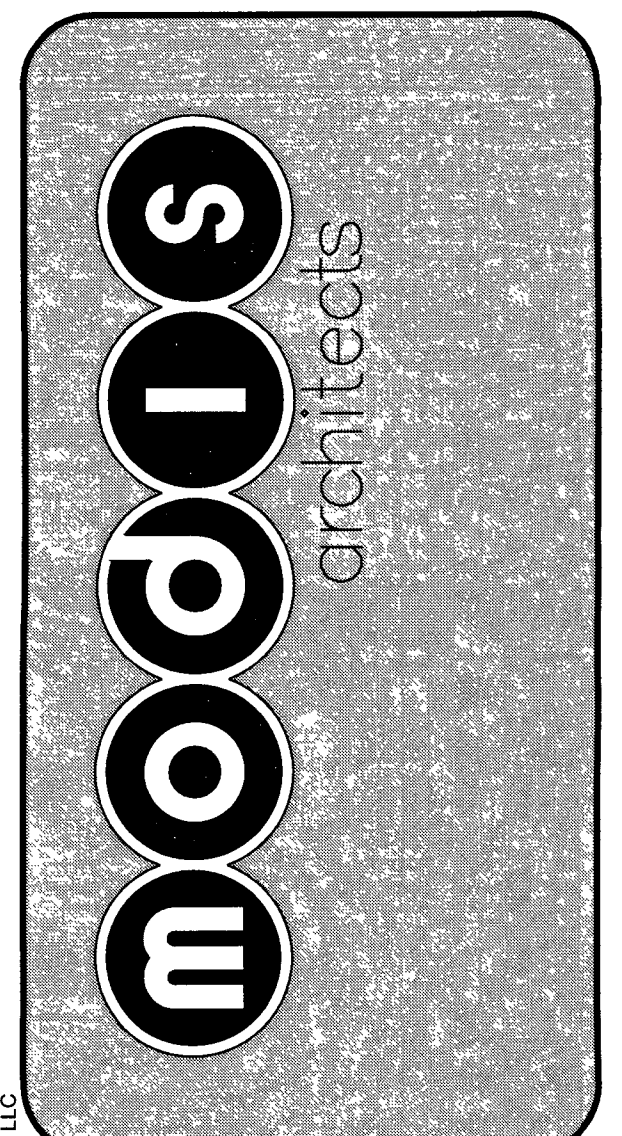
project number : #19024
 drawing scale : As Shown
 drawing date : 08/29/2019
 phase :
 sheet number : **L2.00**

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Level 1 Irrigation Plan
SCALE: 1"=20'-0"



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revisions:

drawing data:

LEVEL 1
IRRIGATION PLAN

project number: #19024

drawing scale: As Shown

drawing date: 12/19/2019

phase: Preliminary TAC

sheet number: **IR-1**

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LEGEND

SYMBOL	MODEL NO.	DESCRIPTION	* EST. QUANTITY
▲ 20	1404	RAINBIRD FLOOD BUBBLER	26
▲ 20	PAB8-SQ-QTR	RAINBIRD SPRAY BUBBLER	22
▲ 20	PAB8-SQ-HLF	RAINBIRD SPRAY BUBBLER	46
○ LCS	1804-PRS-15LCS	RAINBIRD 4" POP-UP SPRAY	01
○ SST	1804-PRS-15SST	RAINBIRD 4" POP-UP SPRAY	02
○ 50	1812-PRS-50	RAINBIRD 12" POP-UP SPRAY	04
○ ST	1812-PRS-ST	RAINBIRD 12" POP-UP SPRAY	01
○ BV	1812-PRS-BV	RAINBIRD 12" POP-UP SPRAY	05
○ 80	1812-PRS-80	RAINBIRD 12" POP-UP SPRAY	02
○ 8T	1812-PRS-8T	RAINBIRD 12" POP-UP SPRAY	01
○ 8H	1812-PRS-8H	RAINBIRD 12" POP-UP SPRAY	05
○ 12V	1812-PRS-12V	RAINBIRD 12" POP-UP SPRAY	02
○ 12Q	1812-PRS-12Q	RAINBIRD 12" POP-UP SPRAY	01
○ RCS	1812-PRS-15LCS	RAINBIRD 12" POP-UP SPRAY	10
○ LCS	1812-PRS-15LCS	RAINBIRD 12" POP-UP SPRAY	09
○ SST	1812-PRS-15SST	RAINBIRD 12" POP-UP SPRAY	15
●	100 PEB	RAINBIRD 1" SOLENOID VALVE	04
⊥ CW	EST-4MI	RAIN BIRD AUTO. CONTROLLER	01
⊥ RS	RSD-BEX	RAINBIRD RAIN SENSOR	01
▲ BP	765 (1 1/2")	FEBCO PRESSURE VACUUM BREAKER	01
NOT SHOWN	#14AWG	PAIGE THHN WIRE	1200 LF
NOT SHOWN	SCH 40 GALVANIZED STEEL	AS REQUIRED	
SCH 40 PVC			
—		MAIN LINE	250 LF
—		LATERALS	AS REQUIRED
—		SLEEVES	AS REQUIRED
NOT SHOWN		SPRINKLER RISER	AS REQUIRED
NOT SHOWN		PVC FITTINGS	AS REQUIRED
.....		WIRE CONDUIT	200 LF
—		GATE VALVE (TO LINE SIZE)	01
●		VALVE BOX	05
⊥ CW		GROUNDING LOCATION	01
⊠		CITY WATER METER	BY OTHERS

NOTE: ABOVE QUANTITIES ARE FOR COMPARISON ONLY.
CONTRACTOR SHALL VERIFY PRIOR TO SUBMITTING BID.

ZONE SUMMARY CHART

STA NO.	VALVE	PLANT TYPE	SPRINKLER VALVE TYPE	WATER DEMAND	RUN TIME	WEEKLY USAGE
1	CW1	BUBBLER	SPRAY 1"	24 GPM	40 MIN/WK	960 GAL/WK
2	CW2	SPRAY	SPRAY 1"	19 GPM	40 MIN/WK	760 GAL/WK
3	CW3	SPRAY	BUBBLER 1"	12 GPM	40 MIN/WK	480 GAL/WK
4	CW4	SPRAY	SPRAY 1"	24 GPM	40 MIN/WK	960 GAL/WK
						160 MIN/WK 3,160 GAL/WK

* ESTIMATED WATER USE TO APPLY 1.0 IN/WK ON SHRUBS AND 40 GAL/WK PER IN TREE WELLS.

IRRIGATION NOTES & SPECIFICATIONS

AUTOMATIC IRRIGATION SYSTEM
WATER DEMAND / ZONE REFER TO PLAN
WATER SOURCE 1" CITY WATER METER
PRESSURE REQUIRED 50 PSI

GENERAL

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, AND APPENDIX "F" OF THE FLORIDA BUILDING CODE.

IRRIGATION DESIGN BASED ON "LANDSCAPE PLAN" DATED JAN 29, 2020. CONTRACTOR SHALL REFER TO THIS PLAN TO COORDINATE SPRINKLER LOCATIONS AND PIPE ROUTING WITH NEW AND EXISTING PLANT LOCATIONS.

THIS IRRIGATION PLAN SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL INSTALL IRRIGATION TO MATCH ON SITE CONDITIONS AND TO OVERCOME THE INHERENT INACCURACIES THAT RESULT WHEN DESIGNING FROM BASE PLANS SCALED AT 1" = 20'.

THE WATER SOURCE SHALL BE A 1" CITY WATER METER. REFER TO CIVIL ENGINEERING PLANS FOR ADDITIONAL INFORMATION.

BACKFLOW PREVENTION SHALL BE INSTALLED TO MEET LOCAL CODE REQUIREMENTS FOR CROSS CONNECTION CONTROL. A PRESSURE VACUUM BREAKER HAS BEEN SPECIFIED.

THIS IRRIGATION HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE USING RAIN BIRD SPRINKLERS, IN-LINE VALVES AND CONTROL SYSTEM. A RAIN SENSOR SHALL BE INSTALLED TO CONSERVE WATER.

IRRIGATION SHALL BE INSTALLED AND MAINTAINED TO MINIMIZE UNDESIRABLE OVERTHROW ONTO PAVEMENT, SIDEWALKS, AND BUILDINGS.

CONTRACTOR IS ADVISED TO STUDY THE PLANS FOR ADDITIONAL INFORMATION AND TO VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.

TO ENSURE PROPER OPERATION, PRESSURE REQUIRED, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, SPRINKLER SPACING, PIPE AND WIRE SIZES, INSTALLATION NOTES AND DETAILS, AND SPECIFICATIONS SHALL BE FOLLOWED AS SHOWN.

PIPING

PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS.
PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, SECTION "F" OF THE FLORIDA BUILDING CODE, AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL BE: (1) BURIED TO A MINIMUM DEPTH OF 24", (2) TWO PIPE SIZES LARGER THAN THE CARRIER PIPE, AND (3) EXTEND 3' BEYOND HARDSCAPED AREA. CONTRACTOR SHALL VERIFY THE SIZE, DEPTH AND LOCATION OF ALL EXISTING SLEEVES.

PIPE INSTALLED ABOVE GRADE AT THE BACKFLOW PREVENTER SHALL BE SCH 40 GALVANIZED STEEL. ALL OTHER PIPE AND FITTINGS SHALL BE SCH 40 TYPE 1120 PVC.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT FRICTION LOSS IN THE PIPING NETWORK.

PIPE SHALL BE INSTALLED AT SUFFICIENT DEPTH BELOW GROUND TO PROTECT IT FROM HAZARD SUCH AS VEHICULAR TRAFFIC OR ROUTINE OCCURRENCES WHICH OCCUR IN THE NORMAL USE AND MAINTENANCE OF THE PROPERTY. DEPTHS OF COVER SHALL MEET OR EXCEED SCS CODE 430-DD. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL INFORMATION.

BACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, STONES, AND OTHER DEBRIS THAT WOULD DAMAGE IRRIGATION SYSTEM COMPONENTS.

THE BACKFLOW PREVENTER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SHALL BE LOCATED TO BE CONCEALED FROM VIEW.

A GATE VALVE SHALL BE INSTALLED FOR ISOLATION. THIS VALVE SHALL BE TO LINE SIZE AND INSTALLED IN A VALVE BOX. POROUS MATERIAL SHALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

SPRINKLERS

SPRINKLER LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR LANDSCAPING, FENCES, SITE LIGHTING, PREVAILING WIND, MOUNDING, ETC., TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. A PRIME OBJECTIVE SHALL BE TO ELIMINATE OVERTHROW ONTO PAVEMENT, SIDEWALKS, AND BUILDINGS.

SPRINKLERS SHALL BE RAINBIRD 1800 SERIES. FOUR INCH POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH MULCH, TWELVE INCH POP UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH GROUNDCOVER AND LOW SHRUBS, AND BUBBLERS SHALL BE INSTALLED IN NARROW LANDSCAPED AREAS AND IN TREE WELLS.

POP-UP TYPE LOCATED IN MULCH AND GROUND COVERS SHALL BE INSTALLED ON FLEXIBLE SWING JOINTS CONSISTING OF THICKWALLED POLY PIPE AND 1/2" INSERT ELBOWS.

POP-UP TYPE LOCATED IN SHRUBS SHALL BE INSTALLED ON 1/2" SCH 40 PVC RISERS TO A HEIGHT SO SPRINKLERS ARE CONCEALED FROM VIEW EXCEPT DURING USE.

BUBBLERS SHALL BE INSTALLED ON 1/2" SCH 40 PVC RISERS AT THE BASE OF PLANTS FOR LOW LEVEL WATERING. RISERS SHALL BE PAINTED FLAT BLACK TO BE LESS VISIBLE.

EACH SPRAY HEAD SHALL BE EQUIPPED WITH THE APPROPRIATE SPRAY NOZZLE. ADJUSTMENT FEATURES OF SPRINKLERS SPECIFIED SHALL BE UTILIZED TO INSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. LOW ANGLE, FLAT SPRAY, AND ADJUSTABLE ARC NOZZLES SHALL BE USED TO MINIMIZE OVERTHROW.

SPRINKLERS LOCATED ADJACENT TO HARDSCAPED AREAS SHALL BE INSTALLED AWAY FROM HARDSCAPED AREAS TO MINIMIZE OVERTHROW AND THE CHANCE OF DAMAGE BY VEHICLES, PEDESTRIANS, AND LAWN MAINTENANCE PERSONNEL. AS A GENERAL RULE, 4" POP-UP SPRAY HEADS SHALL BE INSTALLED IN 4", AND 12" POP-UP SPRAY HEADS SHALL BE INSTALLED IN 12".

CONTROL SYSTEM

CONTROL SYSTEM SHALL BE A RAIN BIRD ESP SERIES ELECTRIC TYPE. ONE 4 STATION CONTROLLER SHALL ACTIVATE 4 IN-LINE VALVES. A RAIN SENSOR BE INSTALLED TO CONSERVE WATER.

CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING EQUIPMENT SHALL BE PROVIDED.

CONTROLLER LOCATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. A 110 VAC ELECTRIC SOURCE IS REQUIRED.

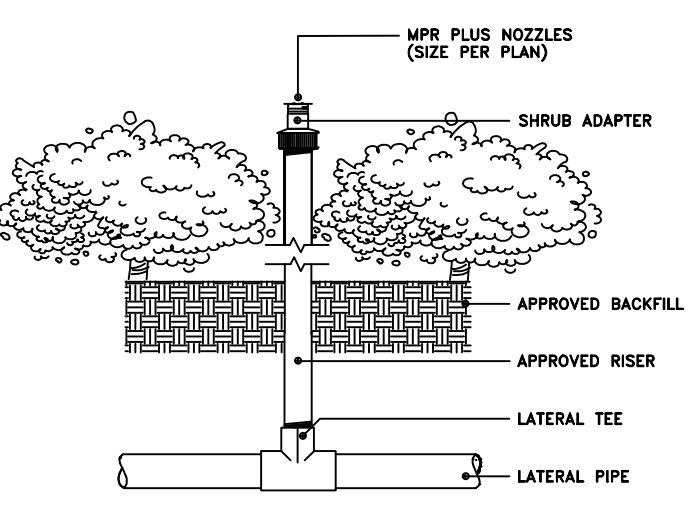
CONTROL LINES FROM THE AUTOMATIC CONTROLLER TO IN-LINE AUTOMATIC VALVES SHALL BE #14 AWG THIN TYPE WHICH SHALL BE:
(1) INSTALLED IN ACCORDANCE WITH LOCAL CODES, (2) INSTALLED IN SCH 40 PVC WIRE CONDUIT, (3) BURIED TO A MINIMUM DEPTH OF 15", (4) COLOR CODED TO FACILITATE TROUBLESHOOTING AND, (5) SPLICED MOSTLY AT VALVE LOCATIONS. SPLICES SHALL BE MADE WATERPROOF USING APPROVED METHODS. SPARE WIRES SHALL BE ROUTED FROM THE CONTROLLER IN ALL DIRECTIONS TO THE FARTHEST VALVES CONTROLLED.

AUTOMATIC VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A VALVE BOX. A MINIMUM OF ONE CUBIC FOOT OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE.

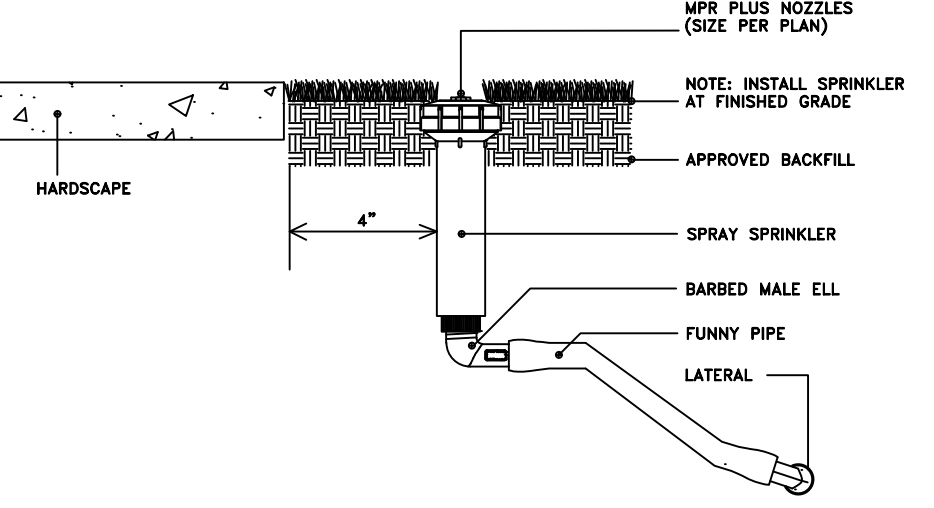
THE RAIN SENSOR SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. LOCATION SHALL BE SELECTED ON SITE.

TIMING AND PRECIPITATION

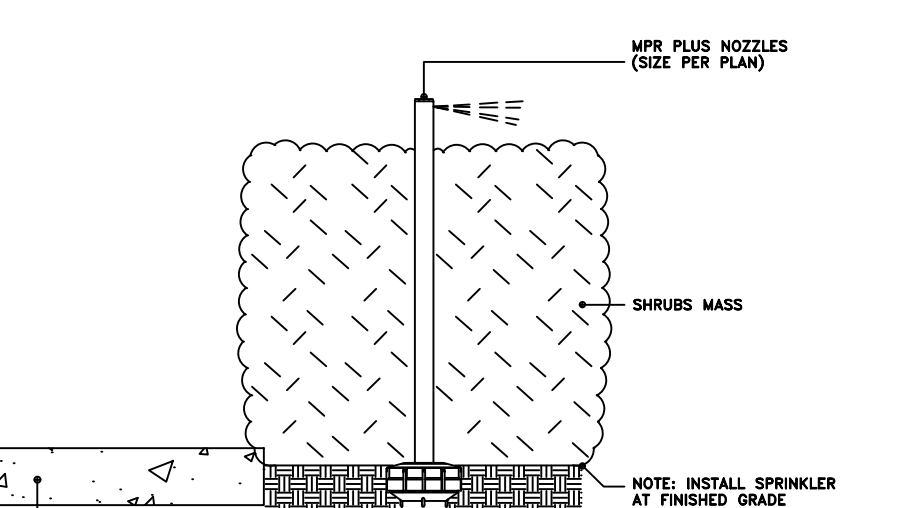
TIMING OF EACH STATION SHALL BE SET IN THE FIELD TO MATCH LOCAL REQUIREMENTS. REFER TO ZONE SUMMARY CHART FOR RECOMMENDED RUN TIMES TO APPLY 1.0 INCHES/WEEK.



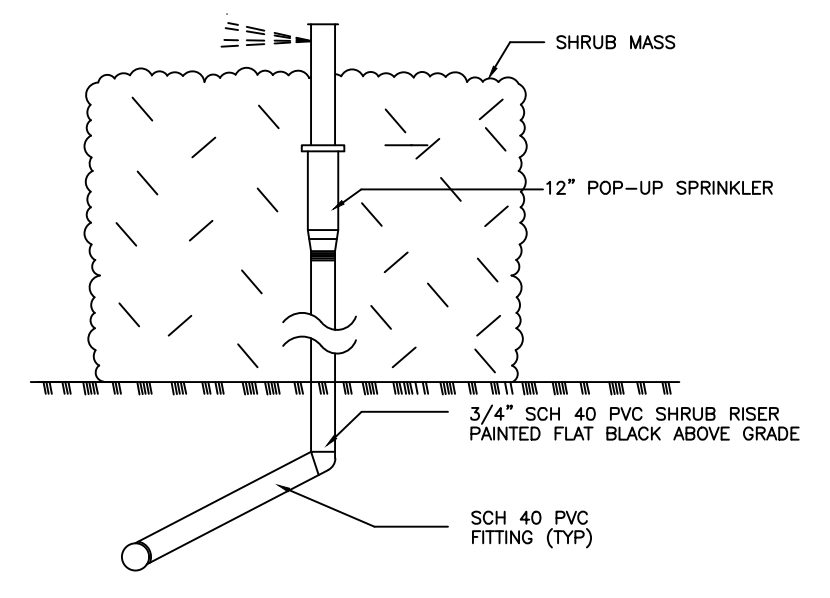
SHRUB/BUBBLER SPRINKLER (N.T.S.)
BUBBLER/SHRUB SPRAY
INSTALLED AT THE BASE
OF PLANTS FOR LOW
LEVEL WATERING.



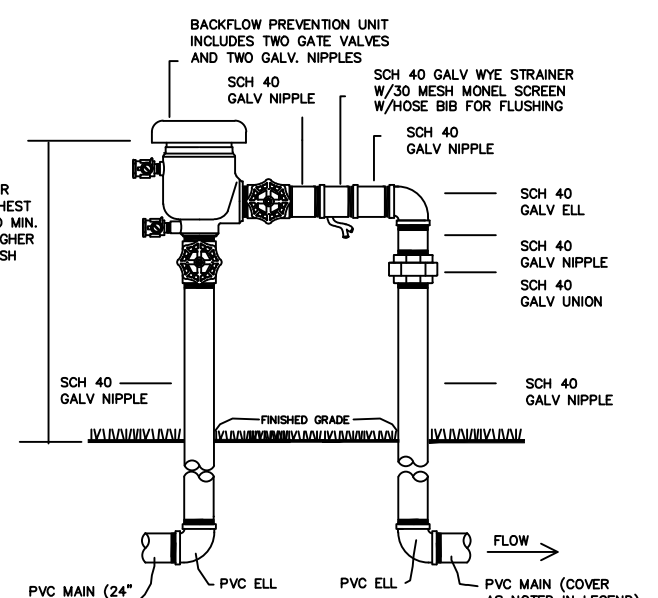
SPRINKLER DETAIL (N.T.S.)
POP-UP SPRAY ON POLY
PIPE SWING JOINT LOCATED
IN SOD OR MULCH



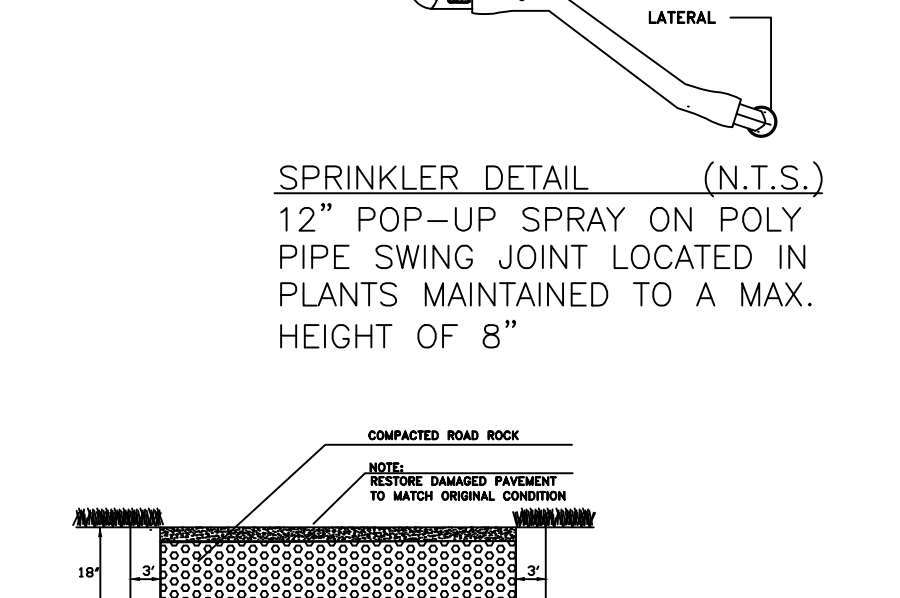
SPRINKLER DETAIL (N.T.S.)
12" POP-UP SPRAY ON POLY
PIPE SWING JOINT LOCATED
IN PLANTS MAINTAINED TO A MAX.
HEIGHT OF 8"



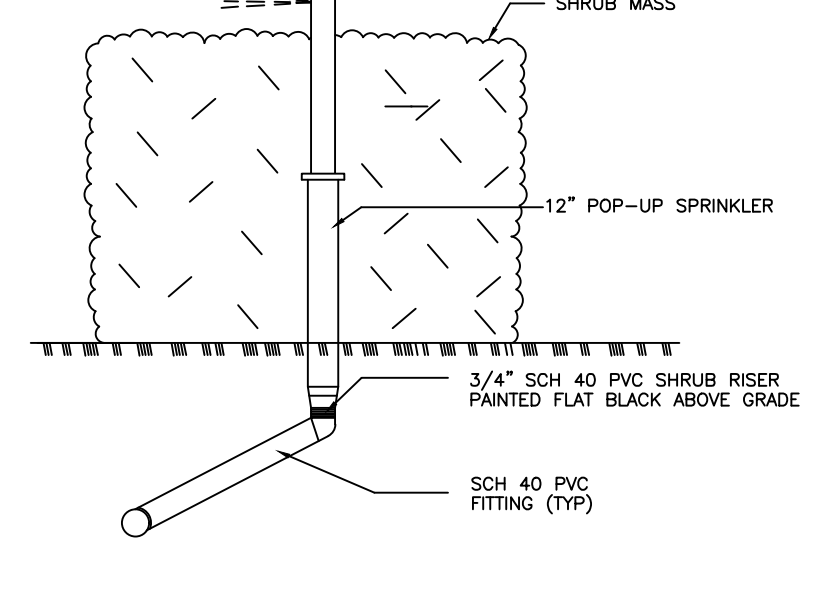
SPRINKLER DETAIL (N.T.S.)
12" POP-UP SPRAY ON PVC
SWING JOINT WITH RISER LOCATED
IN PLANT MASS MAINTAINED TO A
MIN. HEIGHT OF 24"



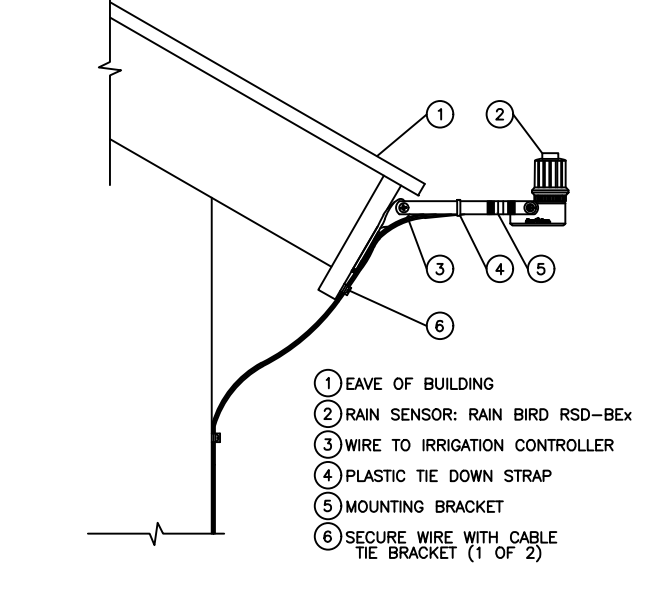
PRESSURE VACUUM BREAKER
NOT TO SCALE



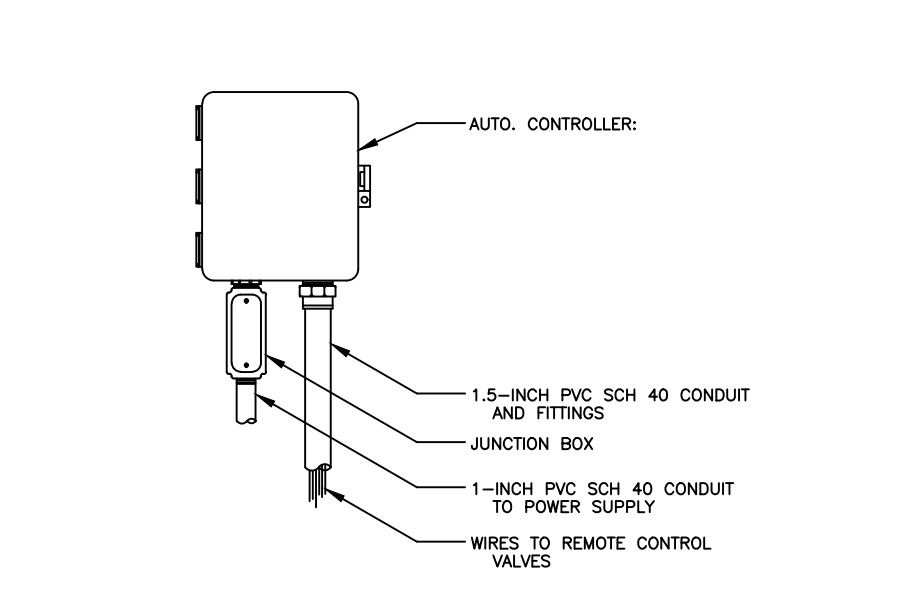
PIPE SLEEVE DETAIL
NOT TO SCALE



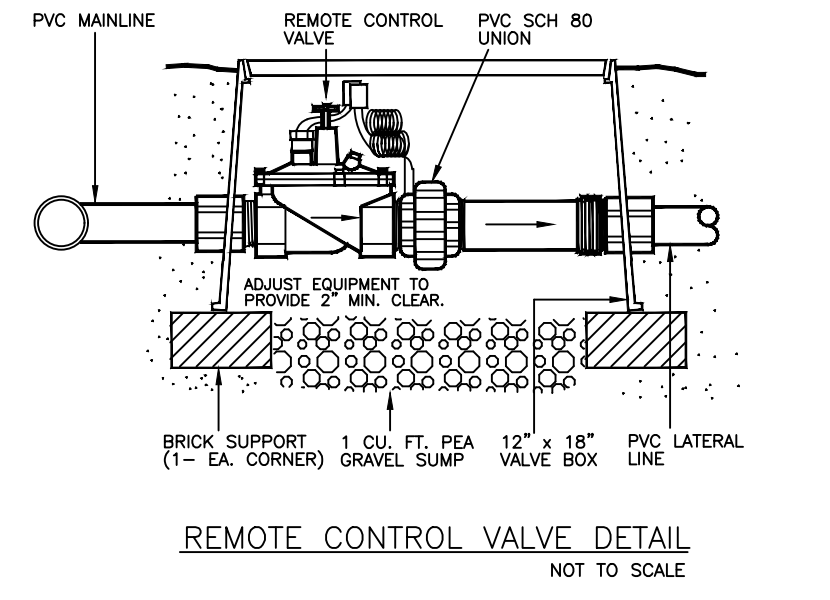
SPRINKLER DETAIL (N.T.S.)
12" POP-UP SPRAY ON PVC
SWING JOINT LOCATED IN PLANT
MASS MAINTAINED TO A MIN.
HEIGHT OF 18"



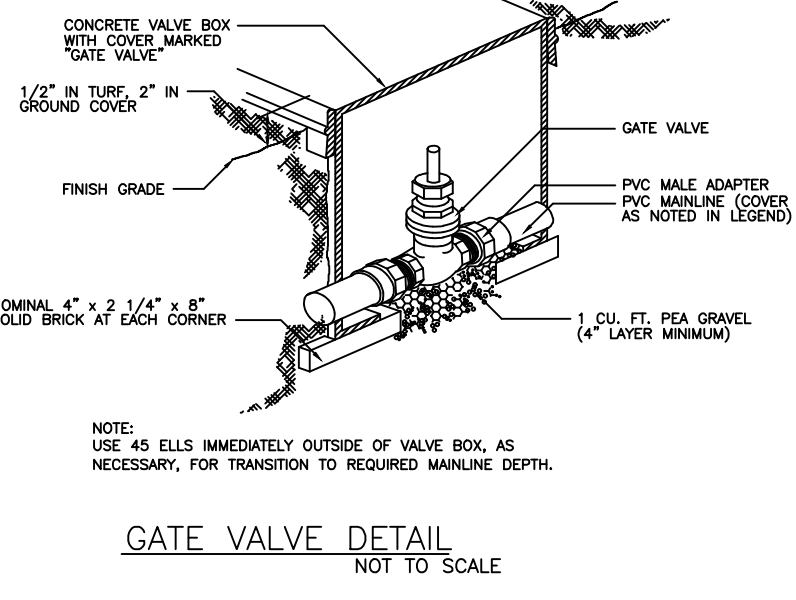
RAIN SENSOR RSD-BEX
NOT TO SCALE



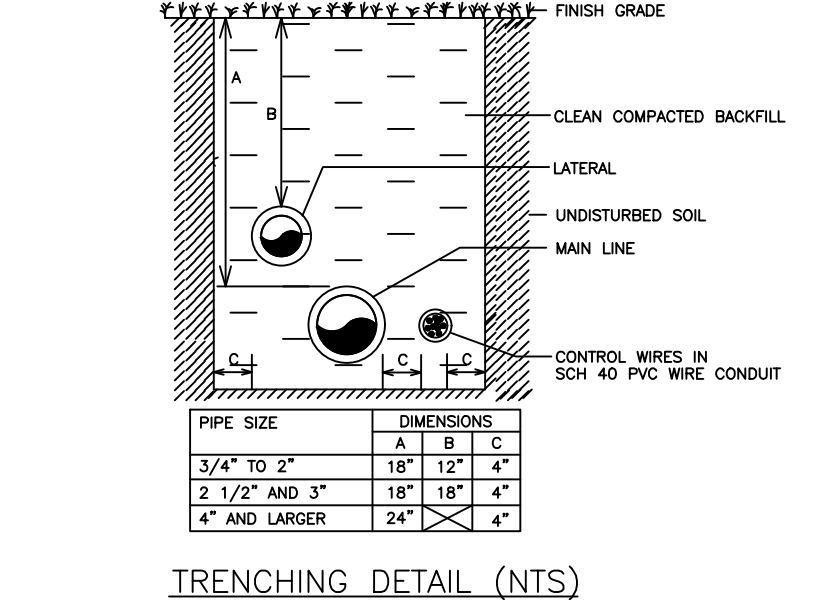
AUTOMATIC CONTROLLER
NOT TO SCALE



REMOTE CONTROL VALVE DETAIL
NOT TO SCALE

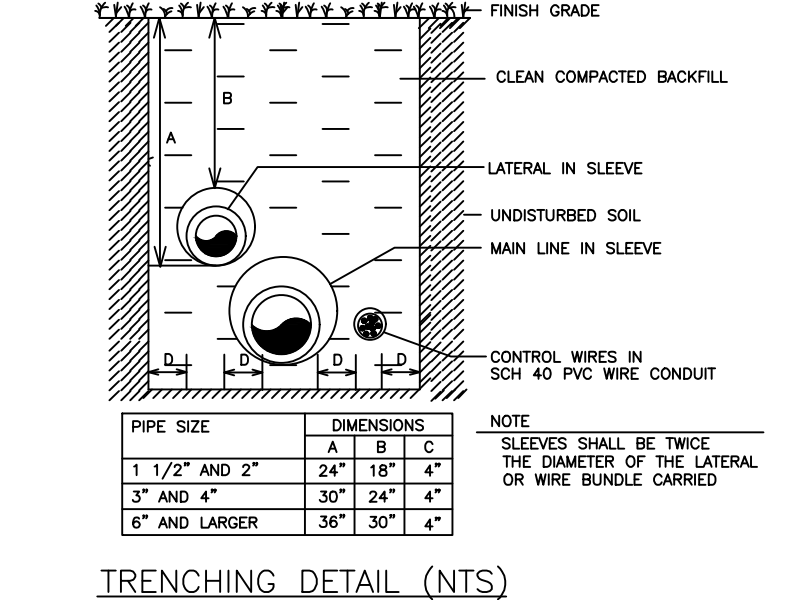


GATE VALVE DETAIL
NOT TO SCALE



TRENCHING DETAIL (N.T.S.)
NON-TRAFFIC AREAS

PIPE SIZE	DIMENSIONS
1"	18" x 12" x 4"
1 1/2"	18" x 18" x 4"
2"	24" x 24" x 4"
2 1/2"	30" x 24" x 4"
3"	30" x 30" x 4"
4"	36" x 30" x 4"



TRENCHING DETAIL (N.T.S.)
VEHICULAR TRAFFIC AREAS

PIPE SIZE	DIMENSIONS
1"	18" x 18" x 4"
1 1/2"	24" x 18" x 4"
2"	30" x 24" x 4"
2 1/2"	30" x 24" x 4"
3"	36" x 30" x 4"
4"	36" x 30" x 4"

NOTE:
SLEEVES SHALL BE THREE
THE DIAMETER OF THE LATERAL
OR WIRE BUNDLE CARRIED

SITE DEVELOPMENT DRAWINGS FOR:

SOLESTE

HOLLYWOOD BOULEVARD

2001 HOLLYWOOD BLVD., HOLLYWOOD
BROWARD COUNTY, FL
SECTION 15, TOWNSHIP 51S, RANGE 42E

FOR

THE ESTATE COMPANIES

VICINITY \ AERIAL MAP

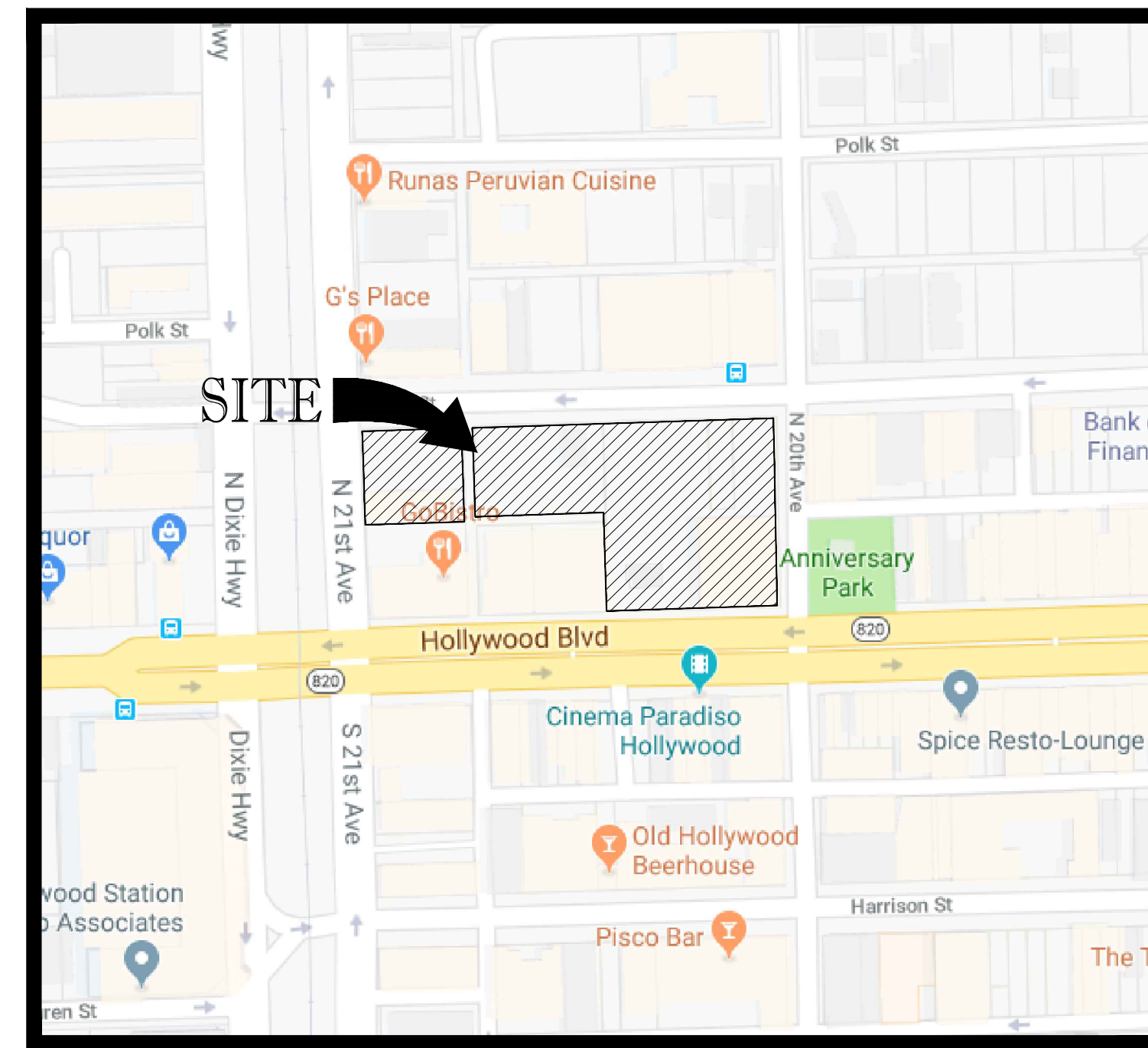
1"=200'



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LOCATION MAP

1"=200'



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SHEET INDEX

COVER SHEET	C-01
PRELIMINARY PAVING, GRADING & DRAINAGE PLAN	C-02
PRELIMINARY UTILITY PLAN	C-03
CIRCULATION PLAN	C-04
PAVEMENT MARKING & SIGNAGE PLAN	C-05
ATLANTIC COAST SURVEYING INC.	
SPECIAL PURPOSE ALTA/NSPS LAND TITLE SURVEY	

THOMAS
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

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P: 813-379-4100
P: 561-203-7503

REVISIONS

REV.	DATE	COMMENT	BY

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PROJECT No.:	F190078
DRAWN BY:	CAD
CHECKED BY:	JAL
DATE:	08/19/2019
CAD I.D.:	F190078 COVER SHEET

PROJECT:

SOLESTE HOLLYWOOD BOULEVARD

FOR

THE ESTATE COMPANIES

2001 HOLLYWOOD BLVD.
CITY OF HOLLYWOOD
FLORIDA

THOMAS
ENGINEERING GROUP

6300 NW 31ST AVENUE
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KEVIN A. BETANCOURT
No. 83361

PROFESSIONAL ENGINEER
March 10, 2020
FLORIDA LICENSE #68061
FLORIDA BUSINESS REGISTRATION No. 27528

SHEET TITLE:

COVER SHEET

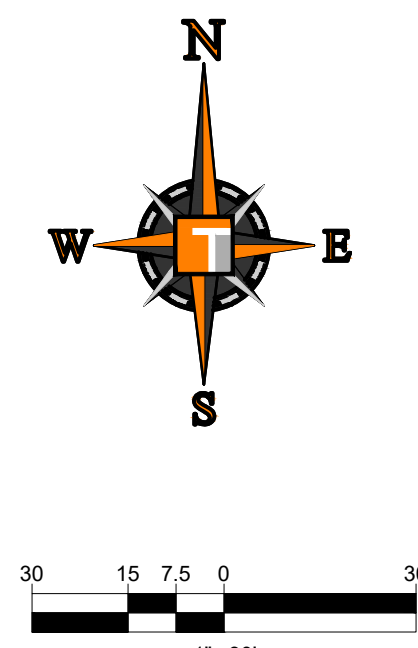
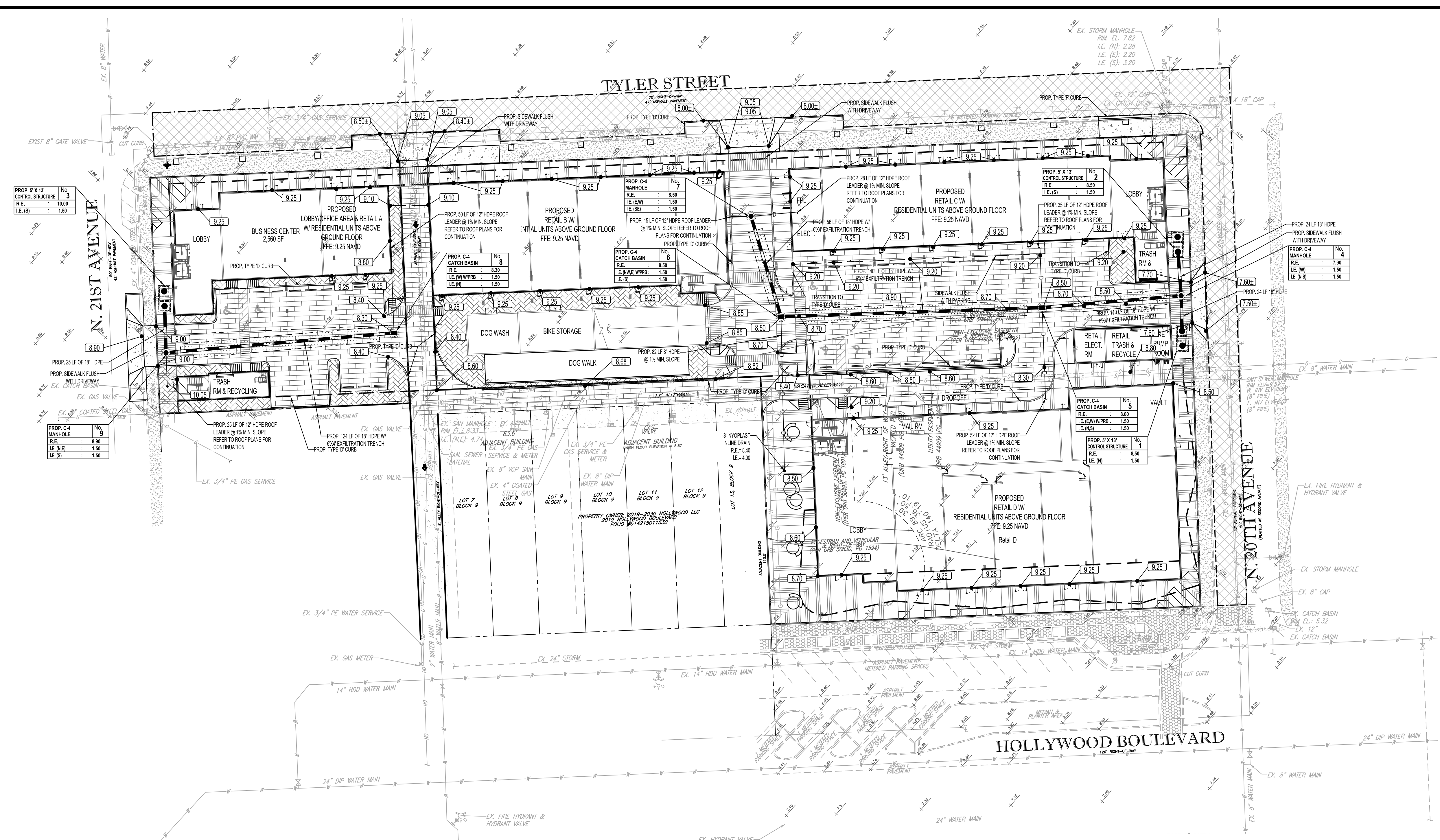
SHEET NUMBER:

C-01

PREPARED BY

THOMAS
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
6300 NW 31ST AVENUE PH: (954) 202-7000
FT. LAUDERDALE, FL. 33309 FX: (954) 202-7070
www.ThomasEngineeringGroup.com



CONSTRUCTION NOTES:

- CONTRACTOR TO SAW-CUT AT ALL LOCATIONS OF REMOVAL OF EXISTING CONC. SIDEWALK, CONC. CURB AND ASPHALT UNLESS OTHERWISE NOTED. ALL BASE AND SUBBASE MATERIAL SHALL BE REMOVED WITHIN THE PROPOSED LANDSCAPED AREA.
- CONTRACTOR TO MATCH EXIST. GRADES AND TO CONSTRUCT A SMOOTH TRANSITION FROM EXISTING FACILITIES TO PROPOSED.
- CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE AND DISPOSE PER LOCAL ORDINANCES.
- CONTRACTOR TO ENSURE ALL CONSTRUCTION IS IN ACCORDANCE WITH CITY DESIGN STANDARDS.
- CONTRACTOR TO SOD ALL DISTURBED AREAS. SODDING INCLUDES MAINTAINING SLOPE AND SOD UNTIL COMPLETION AND ACCEPTANCE OF THE TOTAL PROJECT OR GROWTH IS ESTABLISHED WHICHEVER COMES LAST.
- ALL EXISTING TRAFFIC SIGNS DISTURBED DURING CONSTRUCTION SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
- THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT THAT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OF THESE STANDARDS OR THE PROGRESSION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED AREA.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO HIS/HER CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- NOTIFY SUNSHINE STATE ONE CALL (1-800-432-4770) PRIOR TO CONSTRUCTION.
- PROJECT BASED ON DESIGN SURVEY PREPARED BY OTHERS. DURATION OF CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 600.
- THE CONTRACTOR SHALL NOT ENCRoACH ONTO PRIVATE PROPERTY WITHOUT EASEMENTS NECESSARY FOR COMPLETION OF THE WORK.
- THE EXISTING UNDERGROUND UTILITIES SHOWN ARE PER ABOVE GROUND SURVEY DATA AND UTILITY AS-BUILT DATA. THIS INFORMATION DOES NOT WARRANT EXACT SIZE AND LOCATION OF THE UTILITIES. ALSO, THERE MAY BE ADDITIONAL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION THAT MAY BE AFFECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING EXISTING UTILITIES DURING THE COURSE OF CONSTRUCTION.
- PLEASE SEE MEP PLANS FOR CONTINUATION OF ROOF LEADERS.
- 2.0% MAXIMUM SLOPE ON HANDICAP SPACES AND ADA ACCESS WAYS.
- ALL SIDEWALKS SHOULD HAVE A MAXIMUM CROSS SLOPE OF 2.0%.
- ALL GRADE SHOTS ARE TO BE EDGE OF PAVEMENT (EOP) UNLESS OTHERWISE NOTED.
- CONTRACTOR TO INSPECT, CLEAN & REPAIR, AS NECESSARY, THE EXISTING ON-SITE STORM SYSTEM AND EXISTING STORM SYSTEM MAIN LINE ALONG THE MODIFIED ALLAN KOLSKY BOULEVARD PROVIDING POSITIVE OUTFALL TO THE EXISTING LAKE AND COORDINATE THE INSPECTION WITH CENTRAL BROWARD WATER CONTROL DISTRICT (C.B.W.C.D.) AND BOHLER ENGINEERING PRIOR TO AS-BUILDING THE PROJECT (T.B.C.) TO BE CLEANED.
- PRB = POLLUTION RETARDANT BAFFLE (SEE DETAIL SHEET)

THOMAS ENGINEERING GROUP
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REV.	DATE	REVISIONS	COMMENT	BY

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PROJECT No.:	F190078
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CAD I.D.:	F190078 PGD

PROJECT:
SOLESTE HOLLYWOOD BOULEVARD
 FOR
THE ESTATE COMPANIES
 2001 HOLLYWOOD BLVD.
 CITY OF HOLLYWOOD
 FLORIDA

THOMAS ENGINEERING GROUP
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KEVIN A. BETANCOURT
 No. 83361
 PROFESSIONAL ENGINEER
 March 10, 2020
 LICENSE NO. 12500
 FLORIDA BOARD OF PROFESSIONAL ENGINEERS
 No. 27528

SHEET TITLE:
PRELIMINARY PAVING, GRADING & DRAINAGE PLAN

SHEET NUMBER:
C-02

DATUM NOTE:
 ALL ELEVATIONS ARE BASED ON NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD 88). CONVERSION FROM NAVD TO NGVD IS (+)1.57', I.E. 12.50' NGVD = 10.93' NAVD.

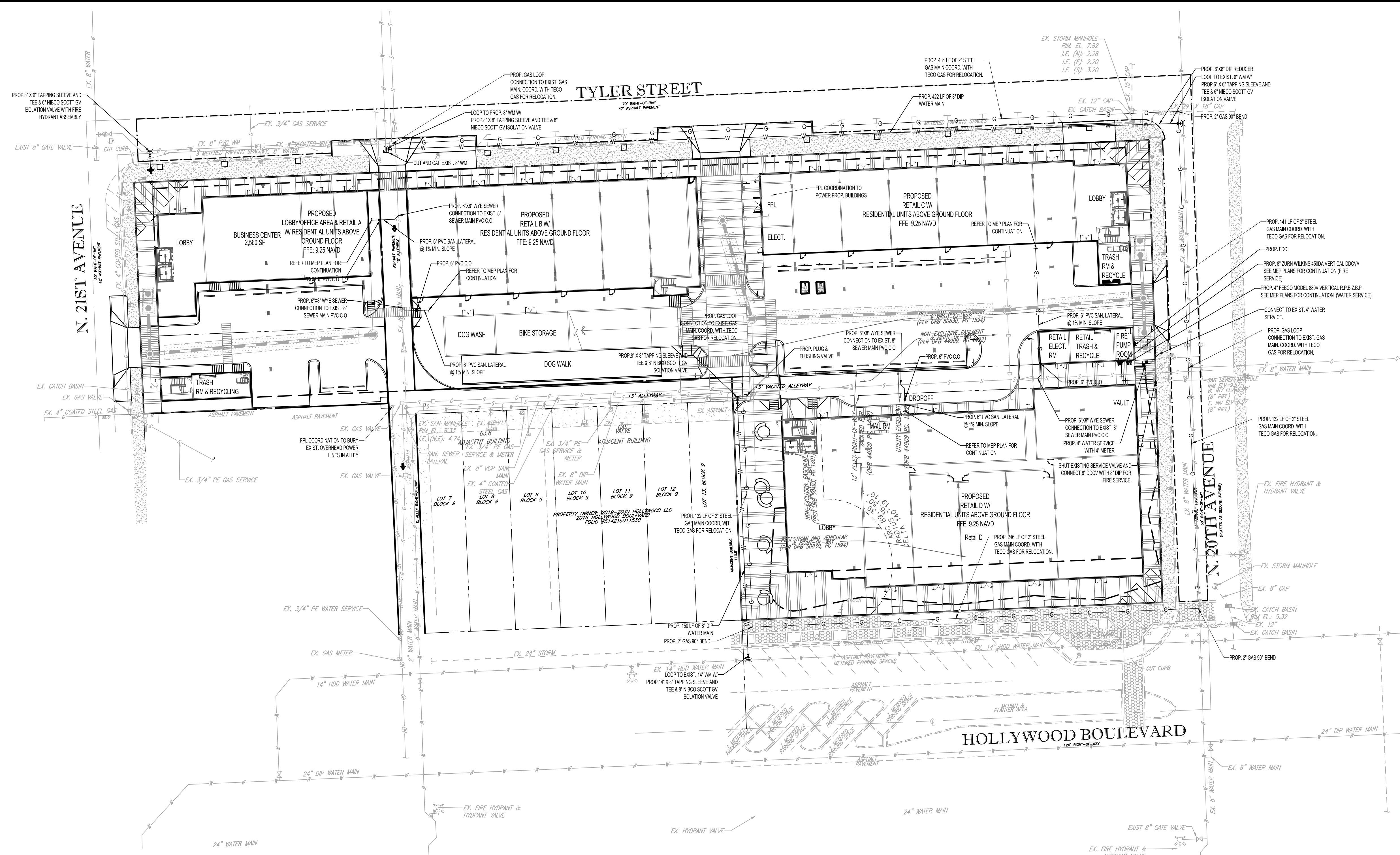
HATCH LEGEND

	PROPOSED 6" CONCRETE		EXISTING CONCRETE
	PROPOSED 1" MILL AND RESURFACE		PROPOSED PAVERS (REFER TO HARDSCAPE PLAN BY OTHERS FOR DETAILS)
	PROPOSED PAVERS (REFER TO HARDSCAPE PLAN BY OTHERS FOR DETAILS)		PROPOSED PAVERS (REFER TO HARDSCAPE PLAN BY OTHERS FOR DETAILS)

PAVING, GRADING & DRAINAGE LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
	UNDERGROUND WATER LINE	
	UNDERGROUND ELECTRIC LINE	
	UNDERGROUND TELEPHONE LINE	
	STORM SEWER	
	SANITARY SEWER MAIN	
	HYDRANT	
	SANITARY MANHOLE	
	STORM MANHOLE	
	CATCH BASIN	
	WATER METER	
	CLEAN OUT	
	GRADE SPOT SHOT	
	FLOW ARROW	
	TOP OF CURB	
	BOTTOM OF CURB	
	LIGHT POLE	
	RIDGE LINE	

Printed on Tuesday, March 10, 2020, 11:36 PM by Kevin Betancourt
 C:\PROJECTS\2019\190078\190078_PGD_01.dwg (SCALE: 1/8"=1'-0") (PLOT SCALE: 1/8"=1'-0")



UTILITY NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE APPROPRIATE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- CONTRACTOR SHALL REFER TO ARCHITECTS PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO LOCATIONS AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, & TELEPHONE COMPANY FOR ACTUAL ROUTING OF POWER AND TELEPHONE SERVICE TO BUILDING.
- SEE DETAIL SHEETS FOR BACKFILLING AND COMPACTION REQUIREMENTS ON UTILITY TRENCHES.
- CONTRACTOR SHALL COMPLY WITH THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ASSURE PROPER DEPTH AND PREVENT ANY CONFLICT OF UTILITIES.
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
- CONTRACTOR SHALL ON ALL UTILITIES COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
- THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES.
- SITE CONTRACTOR TO COORDINATE PROPOSED RECONNECTION OF ALL UTILITIES WITH ARCHITECTURAL PLANS AS WELL AS UTILITY COMPANIES AND BUILDING CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL EXPENSES THAT RESULT FROM DELAYED OR FAILED TEST DURING ANY PHASE OF THE CONSTRUCTION PROCESS. THIS INCLUDES FEES INCURRED THROUGH RESCHEDULING OF ANY RETRACTOR VENDORS OR EQUIPMENT TO ACCOMMODATE.
- EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL REFER TO PLANS BY OTHERS FOR ENTRY LOCATION OF ALL WATER, SEWER SERVICE, ELECTRICAL, AND TELEPHONE SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION AND TIE-INS/CONNECTIONS TO THEIR FACILITIES.
- SEE COVER SHEET FOR LIST OF UTILITY COMPANIES AND CONTACT PERSONS.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL, CONDUIT, IRRIGATION SYSTEMS, AND ANY OTHER MISC. UTILITIES) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL, AND THE PLACEMENT OF ANY APPROPRIATE SOIL STABILIZATION TECHNIQUE.
- CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS.
- WATER MAIN TAP WORK WITHIN THE N. 21 AVENUE R.O.W. REQUIRES APPROVAL FROM THE BROWARD COUNTY ENGINEERING AND CONSTRUCTION DIVISION. COUNTY APPROVAL AND COUNTY PERMIT TO BE OBTAINED PRIOR TO ISSUANCE OF A BUILDING PERMIT.

EXISTING		PROPOSED	
	SANITARY SEWER LATERAL		S-
	UNDERGROUND WATER LINE		W
	UNDERGROUND ELECTRIC LINE		E
	UNDERGROUND GAS LINE		G
	OVERHEAD WIRE		OH
	UNDERGROUND TELEPHONE LINE		T
	UNDERGROUND CABLE LINE		C
	UNDERGROUND RECLAIMED WATER LINE		RW
	STORM SEWER		SS
	STORM SEWER EXFILTRATION TRENCH		SE
	SANITARY SEWER MAIN		S
	HYDRANT		H
	SANITARY MANHOLE		SM
	STORM MANHOLE		SMH
	CATCH BASIN		CB

FIRE FLOW CALCULATIONS:
 THE BELOW CALCULATIONS ARE PROVIDED FOR THE PROPOSED 996,498 SF EIGHT STORY BUILDING. THE ENTIRE BUILDING IS NONCOMBUSTIBLE CONSTRUCTION (CONSTRUCTION TYPE I(111)).

PER NFPA 18.4.5.1.2 FIRE FLOW REQUIREMENTS, THE FIRE REQUIREMENT FOR A TYPE II (111) CONSTRUCTION GREATER THAN 186,500 SF FIRE FLOW AREA IS 6,000 GPM FOR 4 HOURS.

NFPA 18.4 STATES THAT THE REQUIRED FIRE FLOW CAN BE REDUCED BY 75% IF THE BUILDING HAS AUTOMATIC SPRINKLERS.

6,000 GPM X 75% = 4,500 GPM (FIRE FLOW CREDIT)
 6,000 GPM - 4,500 GPM = 1,500 GPM
 *THE MINIMUM FIRE FLOW PER NFPA 18.4.5.1.2 IS 1,000 GPM

BASED ON THE FIRE FLOW TEST RESULTS DATED 1/30/2020, THE BELOW CALCULATIONS DEMONSTRATE THE PROVIDED FIRE FLOW AT 20 PSI.

Q2 = Q1 * [(S - P2)/(S - P1)]^0.54
 WHERE Q1 = FLOW TEST GPM = 1,190 GPM
 S = FLOW TEST STATIC PSI = 56 PSI
 P1 = FLOW TEST RESIDUAL PSI = 15 PSI
 P2 = PSI PER NFPA 1, TABLE 18.4.5.1.2 = 20 PSI

Q2 = 1,190 * [(56 - 20)/(56 - 15)]^0.54
 Q2 = 1,109 GPM AT 20 PSI < 1,500 GPM

PER THE HYDRANT FLOW TEST, 1,109 GPM IS AVAILABLE AT 20 PSI. THIS RESULT IS ABOVE THE MINIMUM FIRE FLOW REQUIREMENT, BUT LESS THAN THE REQUIRED FIRE FLOW FOR THE PROPOSED BUILDING CONSTRUCTION TYPE AND FIRE FLOW AREA. A FIRE PUMP WILL BE REQUIRED IN ORDER TO MEET FIRE FLOW REQUIREMENTS.

WATER & SEWER DEMAND:

RESIDENTIAL - MULTIPLE FAMILY:
 358 UNITS (@250 GPD/DU) = 89,000 GPD

RETAIL:
 80,831 SF (@0.1 GPD/SF) = 8,084 GPD

TOTAL WATER & SEWER DEMAND:
 89,000 + 8,084 = 97,084 GPD

*THIS CALCULATION WAS BASED ON BROWARD COUNTY DESIGN FLOW STANDARDS.

FIRE PROTECTION NOTE:

ALL UNDERGROUND FIRE MAIN WORK MUST BE COMPLETED BY FIRE PROTECTION CONTRACTOR HOLDING A CLASS I, II, OR V LICENSE PER FS 633.102.

DATUM NOTE:

ALL ELEVATIONS ARE BASED ON NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD 88). CONVERSION FROM NAVD TO NGVD IS (+)1.57', I.E. 12.50' NGVD = 10.93' NAVD.

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PROJECT No.: F190078
 DRAWN BY: CAD
 CHECKED BY: JAL
 DATE: 08/19/2019
 CAD I.D.: F190078 UTILITY

PROJECT: SOLESTE HOLLYWOOD BOULEVARD

FOR THE ESTATE COMPANIES

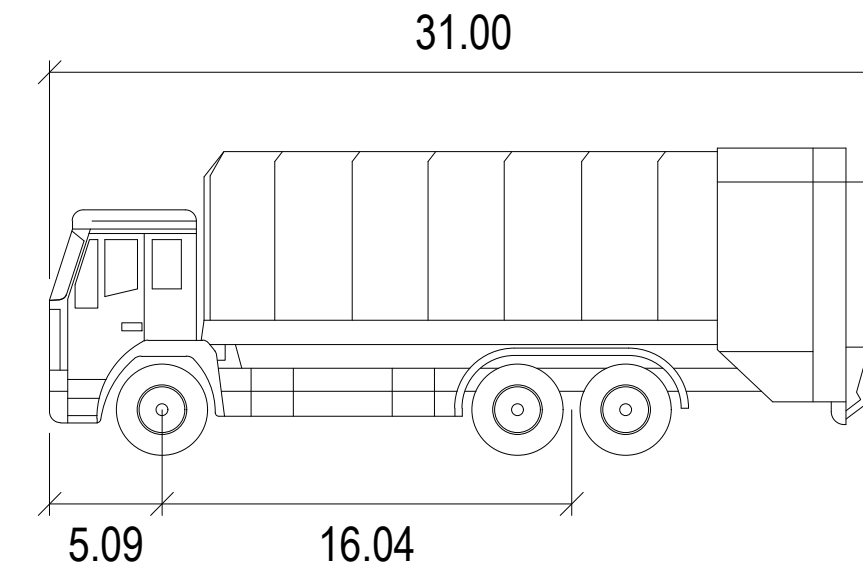
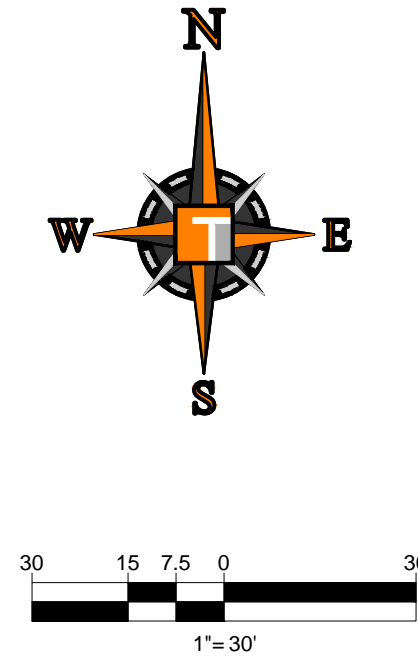
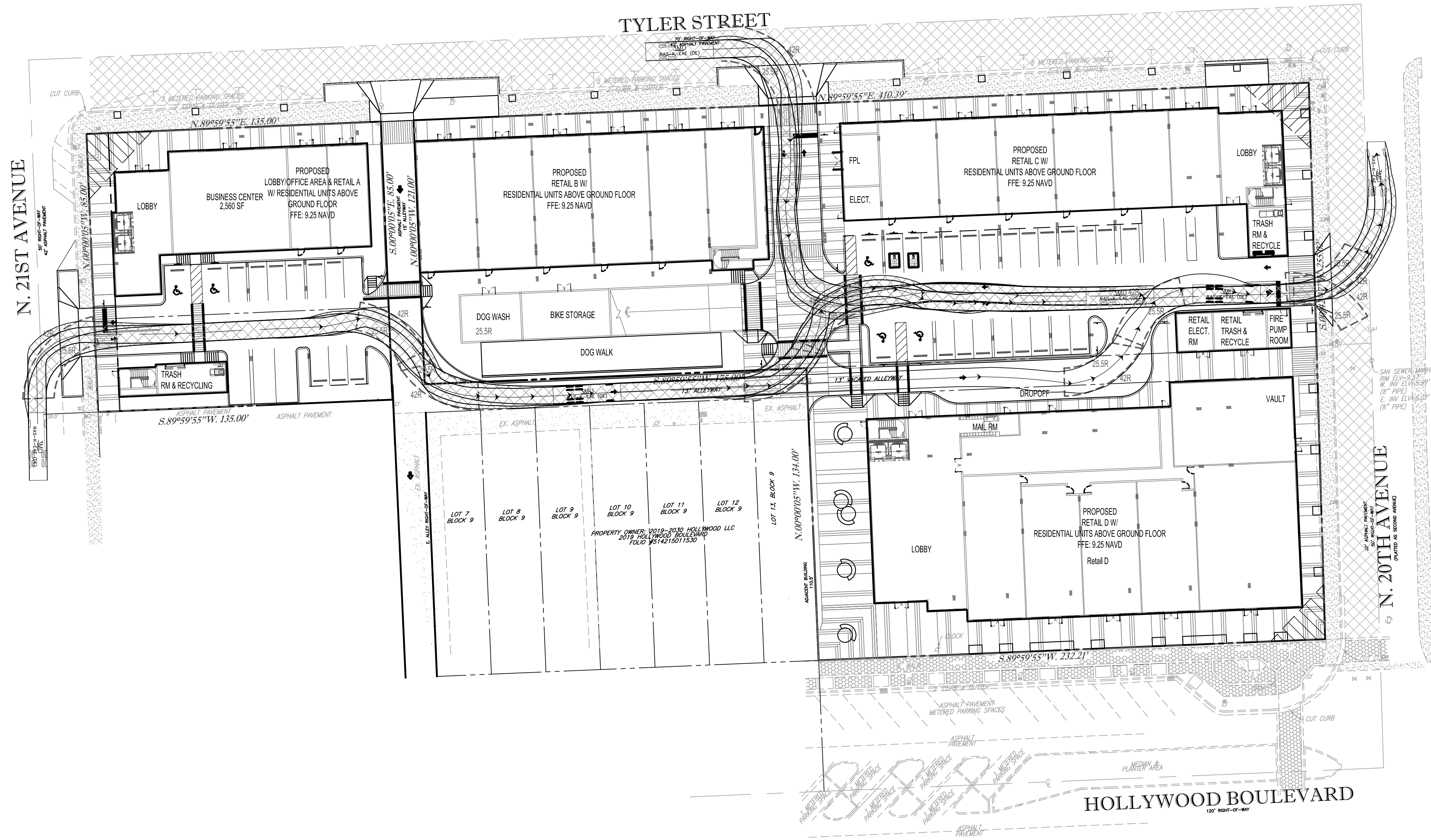
2001 HOLLYWOOD BLVD.
 CITY OF HOLLYWOOD
 FLORIDA

6300 NW 31ST AVENUE
 FORT LAUDERDALE, FL 33309
 PH: (561) 202-7000
 FX: (954) 202-7070
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KEVIN A. BETANCOURT
 No. 83361
 PROFESSIONAL ENGINEER
 March 10, 2020
 LICENSE NO. 12520
 FLORIDA BOARD OF PROFESSIONAL ENGINEERS, COUNTY No. 27528

SHEET TITLE: **PRELIMINARY UTILITY PLAN**

SHEET NUMBER: **C-03**



3MU

Width : 8.20
 Track : 8.20
 Lock to Lock Time : 6.0
 Steering Angle : 38.5

feet

THOMAS ENGINEERING GROUP
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REV.	DATE	REVISIONS	COMMENT	BY

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PROJECT No.:	F190078
DRAWN BY:	CAD
CHECKED BY:	JAL
DATE:	08/19/2019
CAD I.D.:	F190078 CIRCULATION PLAN

PROJECT:
SOLESTE HOLLYWOOD BOULEVARD
 FOR
THE ESTATE COMPANIES
 2001 HOLLYWOOD BLVD.
 CITY OF HOLLYWOOD
 FLORIDA

THOMAS ENGINEERING GROUP
 6300 NW 31ST AVENUE
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KEVIN A. BETANCOURT
 No. 83361
 PROFESSIONAL ENGINEER
 March 30, 2020
 FLORIDA LICENSE #83361
 FLORIDA BUSINESS & PROFESSIONAL SERVICES BOARD, No. 27528

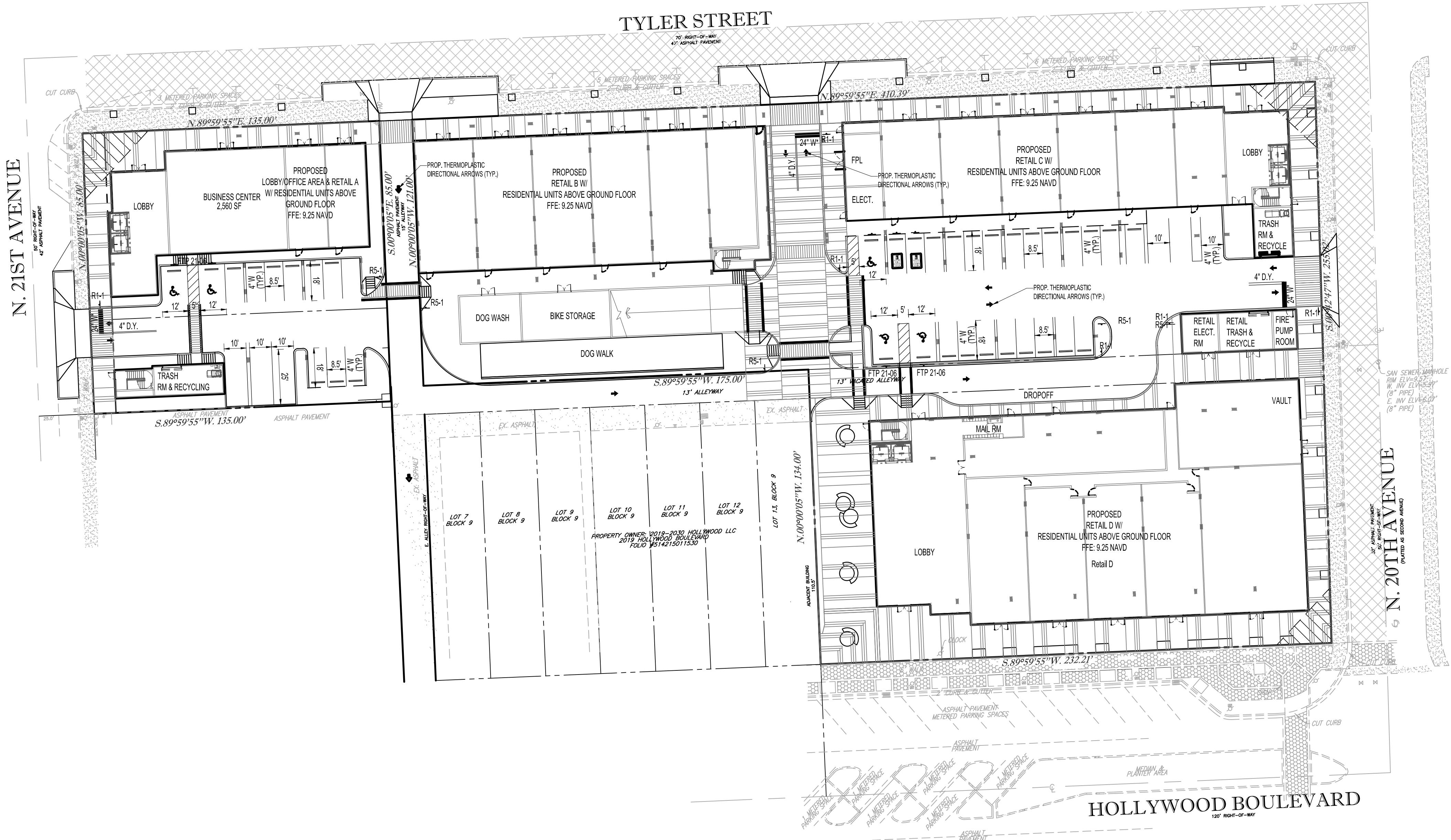
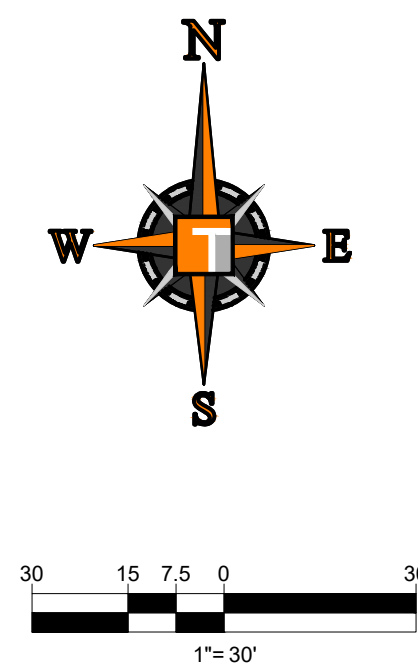
SHEET TITLE:
CIRCULATION PLAN
 SHEET NUMBER:
C-04

ALL PAVEMENT MARKINGS AND SIGNING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARD. (CURRENT EDITION)

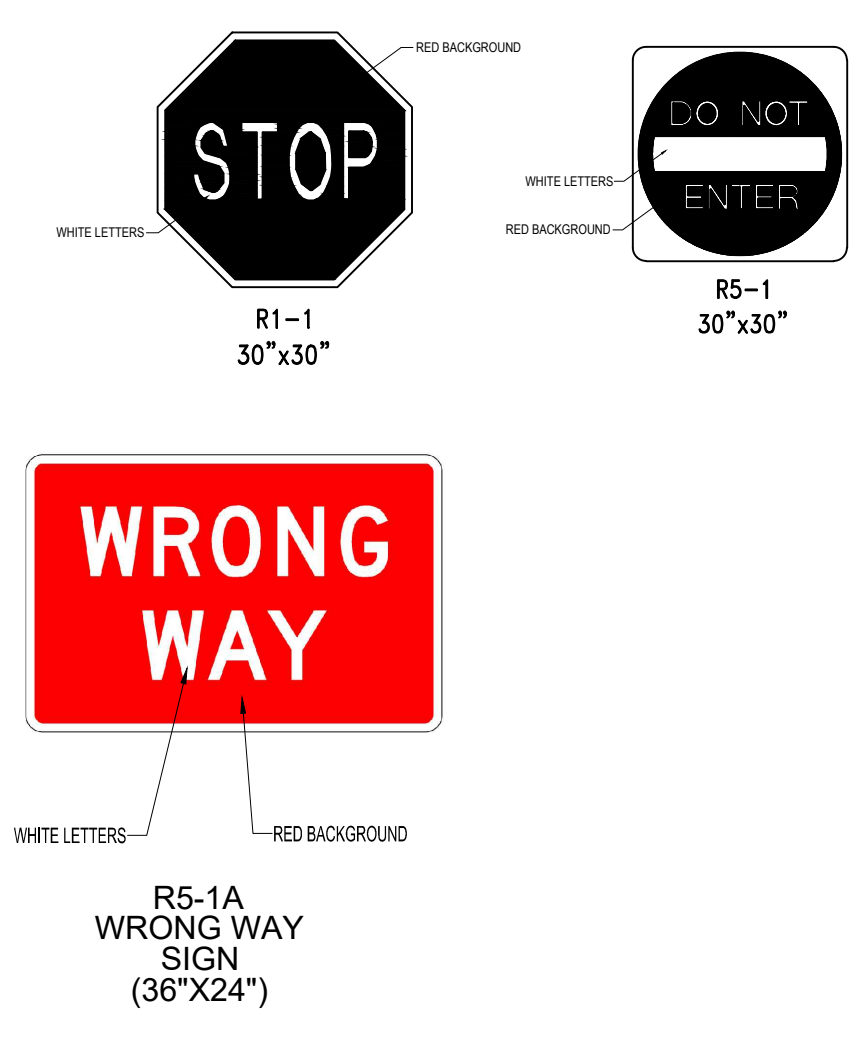
BCTED NOTE:
ALL TYPE XI SIGNING SHALL BE FABRICATED USING DIAMOND GRADE SHEETING AS PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARD. (CURRENT EDITION)

ALL SIGNS MUST MEET MUTCD, BCTED, AND CITY STANDARDS. ALL SIGNS MUST BE MOUNTED ON BROWARD COUNTY TRAFFIC ENGINEERING SQUARE POSTS.

PAVEMENT MARKINGS MUST MEET BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



SIGN LEGEND



NOTE:
ALL TRAFFIC SIGNAGE AND PAVEMENT MARKINGS TO BE PROVIDED ON THE SITE PLAN IN CONFORMANCE WITH BCTED AND MUTCD STANDARDS

NOTE:
ALL SIGNS REQUIRE A SEPARATE ZONING AND BUILDING PERMIT

LEGEND

R1-1	STOP SIGN (30" x 30")
R5-1	DO NOT ENTER SIGN (30" x 30")
FTP 21-06	ACCESSIBLE PARKING DOUBLE YELLOW
DY	DOUBLE YELLOW
W	WHITE
Y	YELLOW
T	THERMOPLASTIC

THERMOPLASTIC RETROREFLECTIVITY REQUIREMENTS
WHITE 250 MILLICANDELAS
YELLOW 175 MILLICANDELAS

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
6300 NW 31ST AVENUE | 1502 W. FLETCHER AVE. | 25 W. INDIANTOWN RD.
FORT LAUDERDALE, FL 33309 | JUPITER, FL 33412 | TAMPA, FL 33612
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P: 954-202-7000

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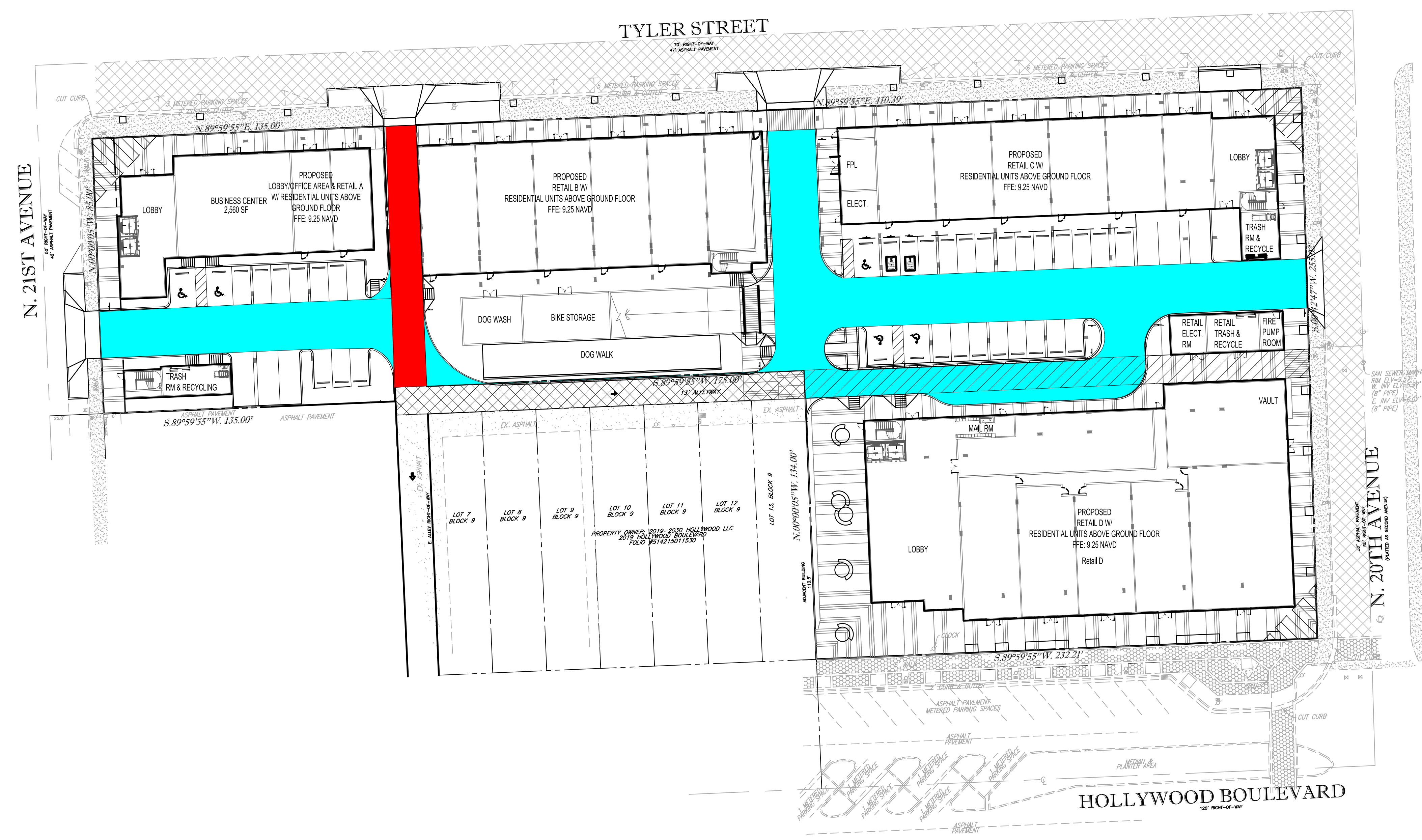
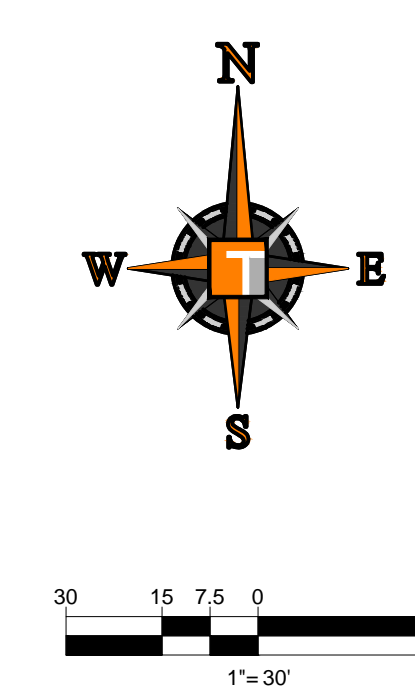
PROJECT No.: F190078
DRAWN BY: CAD
CHECKED BY: JAL
DATE: 08/19/2019
CAD I.D.: PAVEMENT MARKING & SIGNAGE

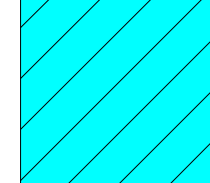
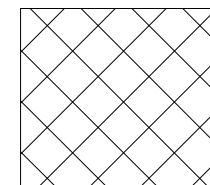
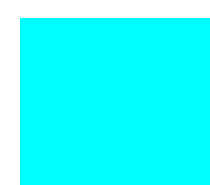
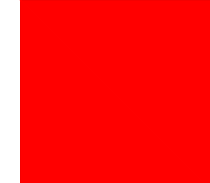
PROJECT:
SOLESTE HOLLYWOOD BOULEVARD
FOR
THE ESTATE COMPANIES
2001 HOLLYWOOD BLVD.
CITY OF HOLLYWOOD
FLORIDA

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KEVIN A. BETANCOURT
No. 83361
PROFESSIONAL ENGINEER
March 10, 2020
FLORIDA LICENSE NO. 94029
FLORIDA BUSINESS REGISTRATION No. 27528

SHEET TITLE:
PAVEMENT MARKING & SIGNAGE PLAN
SHEET NUMBER:
C-05



-  ALLEY PREVIOUSLY VACATED AND EXIST. ACCESS EASEMENT TO REMAIN
-  EXISTING ALLEY TO REMAIN
-  PROP. ACCESS EASEMENT TO BE DEDICATED
-  EXIST. ALLEY TO BE VACATED AND PROP. ACCESS & UTILITY EASEMENT TO BE DEDICATED

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PROJECT No.:	F190078
DRAWN BY:	CAD
CHECKED BY:	JAL
DATE:	08/19/2019
CAD I.D.:	F190078 EASEMENT PLAN

PROJECT:

SOLESTE HOLLYWOOD BOULEVARD

FOR

THE ESTATE COMPANIES

2001 HOLLYWOOD BLVD.
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KEVIN A. BETANCOURT
No. 83361

PROFESSIONAL ENGINEER
March 30, 2020
FLORIDA LICENSE #83361

FLORIDA BUSINESS REGISTRATION No. 27528

SHEET TITLE:

EASEMENT & ALLEY VACATION PLAN

SHEET NUMBER: