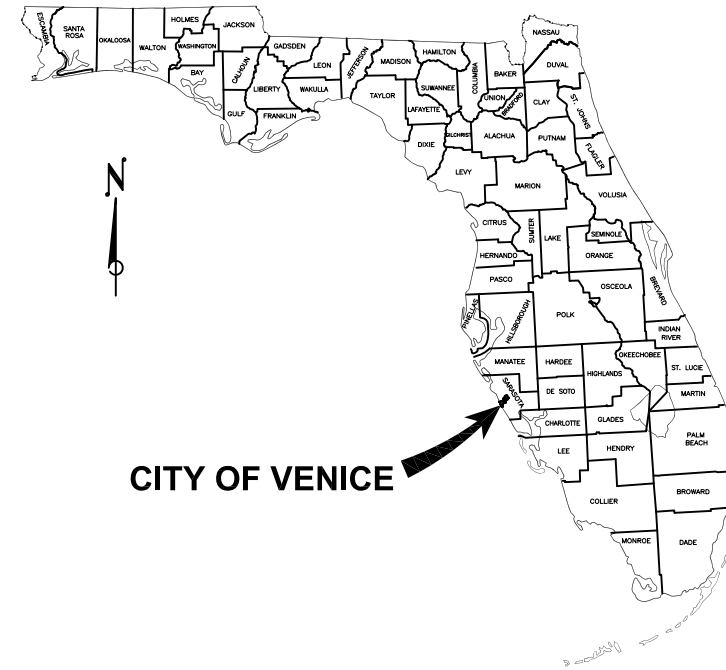


CONTRACT PLANS FOR

CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS



CITY PROJECT #: 2017-03
 FDOT FINANCIAL PROJECT ID: 435092-1-58-01
 FDOT EDTF #: 439455-1-54-01
 FEDERAL FUNDS

CITY of VENICE
 ENGINEERING DEPARTMENT
 401 WEST VENICE AVENUE
 Venice, Florida 34285
 ph: (941) 486-2626

INDEX OF LANDSCAPE PLANS

SHEET #	TITLE
	COVER SHEET
LA-01 thru LA-07	HARDSCAPE PLANS
LA- 08 & LA-09	HARDSCAPE DETAILS
LA-10 thru LA-16	LANDSCAPE PLANS
LA-17	PLANT SCHEDULE AND LANDSCAPE NOTES
LA-18	PLANT INSTALLATION DETAILS
LA-19 thru LA-24	IRRIGATION PLANS
LA-25	IRRIGATION SCHEDULE AND NOTES
LA-26	IRRIGATION DETAILS

LANDSCAPE COMPONENT

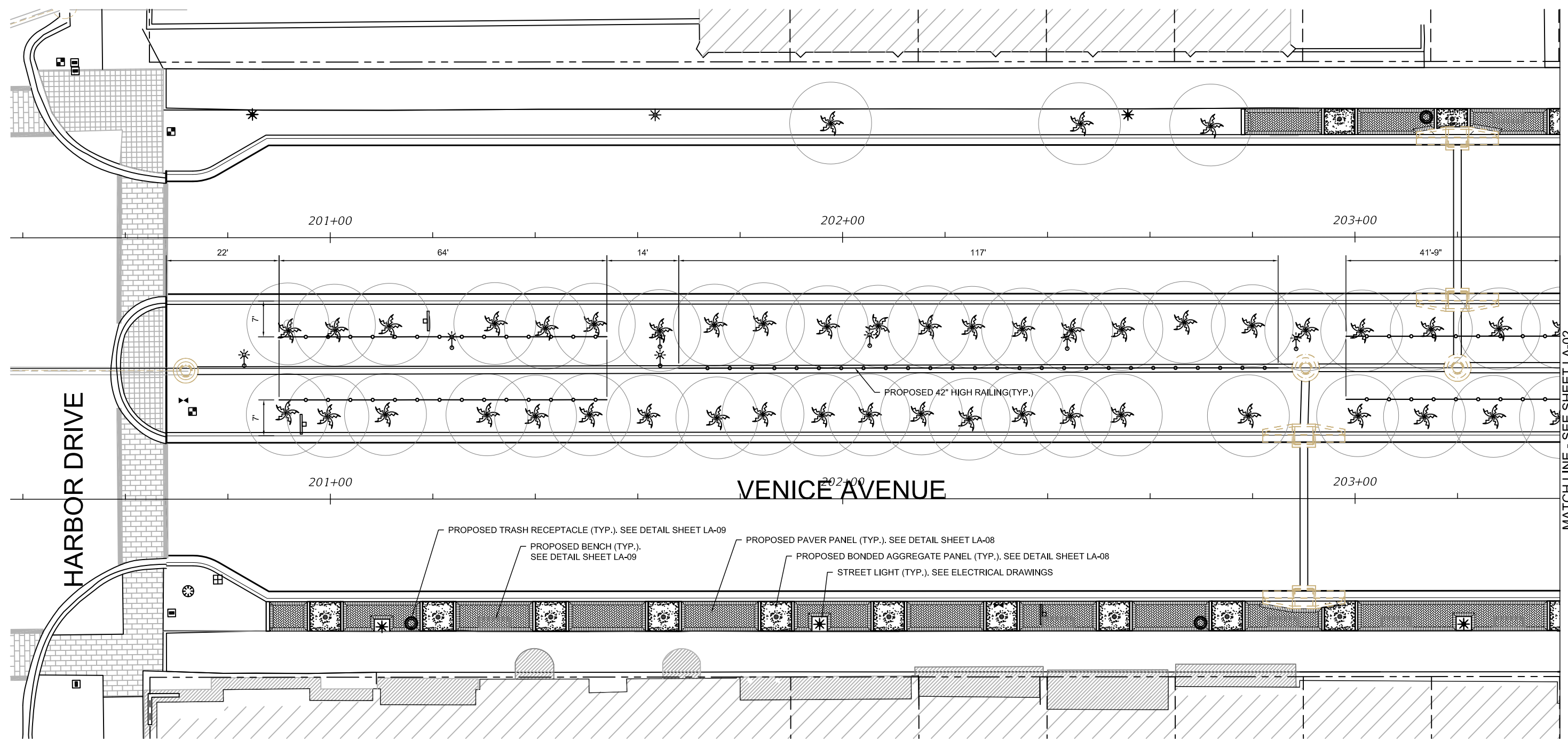
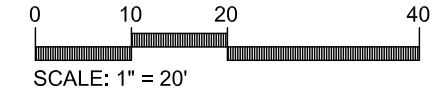
60% PLANS
8-1-2017

PREPARED BY:

ATKINS

PRINCIPAL ADDRESS:
 4030 W. BOY SCOUT BLVD.
 SUITE 700
 TAMPA, FL. 33607-1712
 FBPR CERT. OF AUTH. No. 24

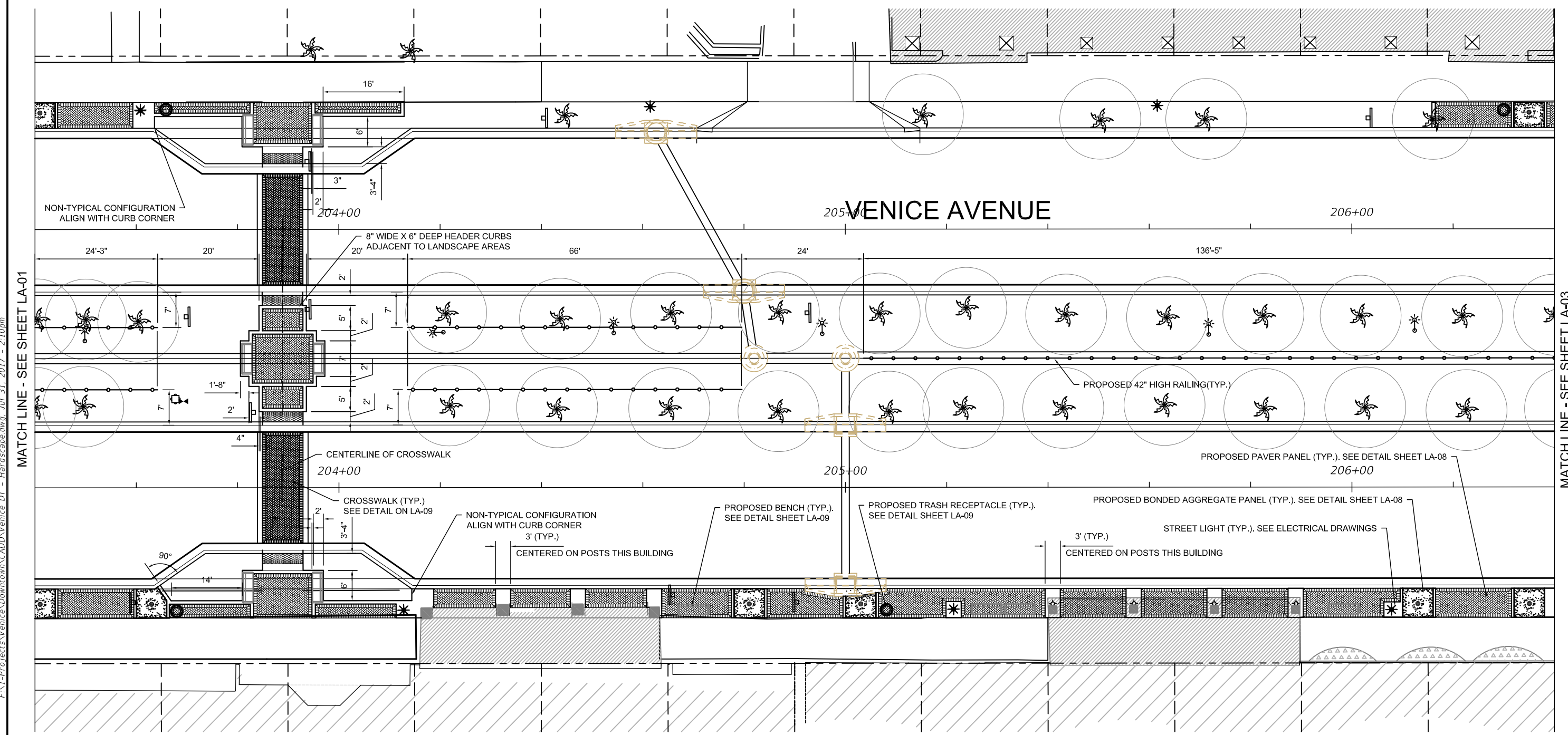
REGISTERED LANDSCAPE ARCHITECT
 HARRY L. BELTON
 LICENSE # 900
 PHONE: 954-233-4381



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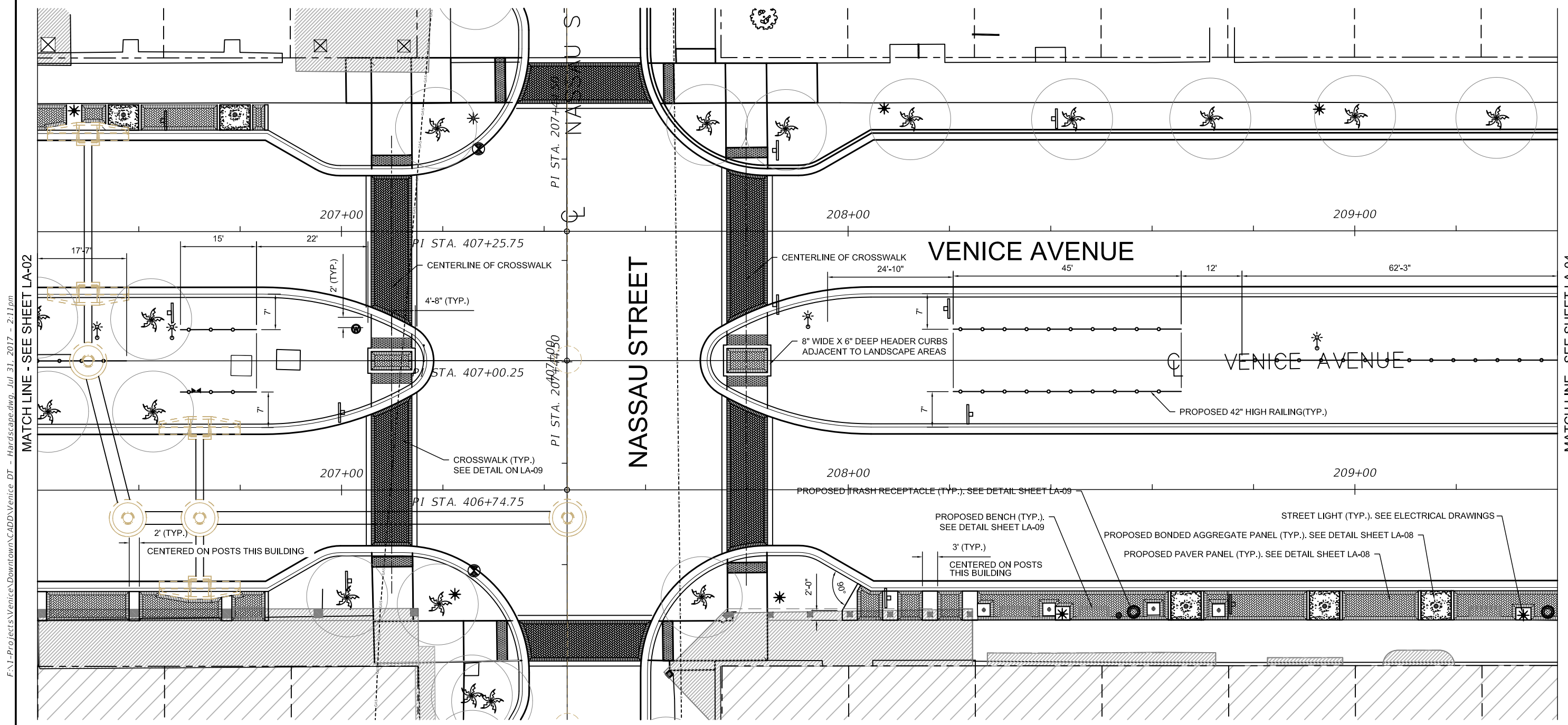
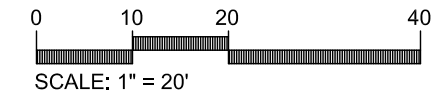
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REV. NO.	DATE	DESCRIPTION											
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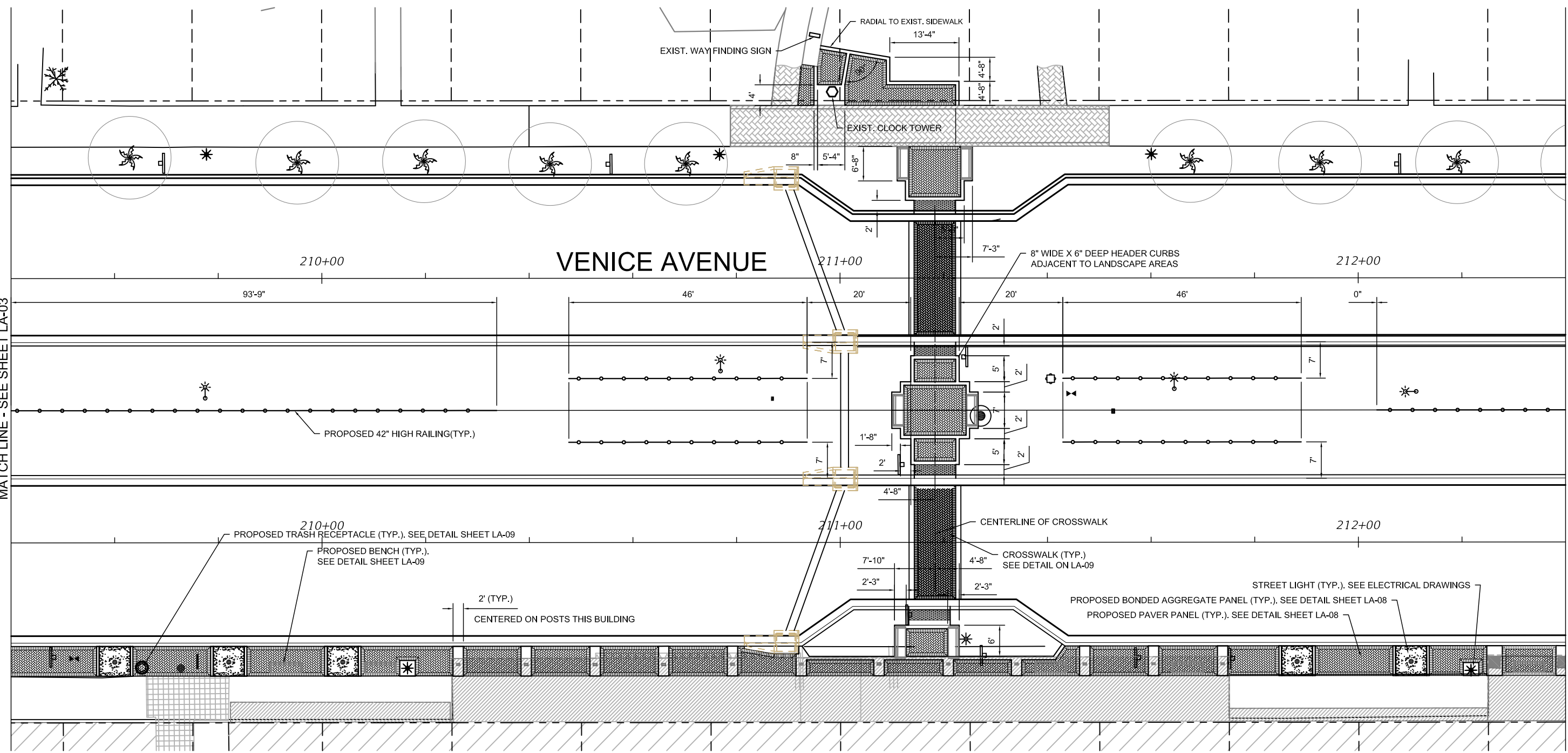
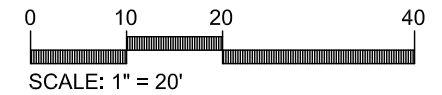
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REV. NO.	DATE	DESCRIPTION																			



MATCH LINE - SEE SHEET LA-02

MATCH LINE - SEE SHEET LA-04

REV. NO.	DATE	DESCRIPTION	DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ----
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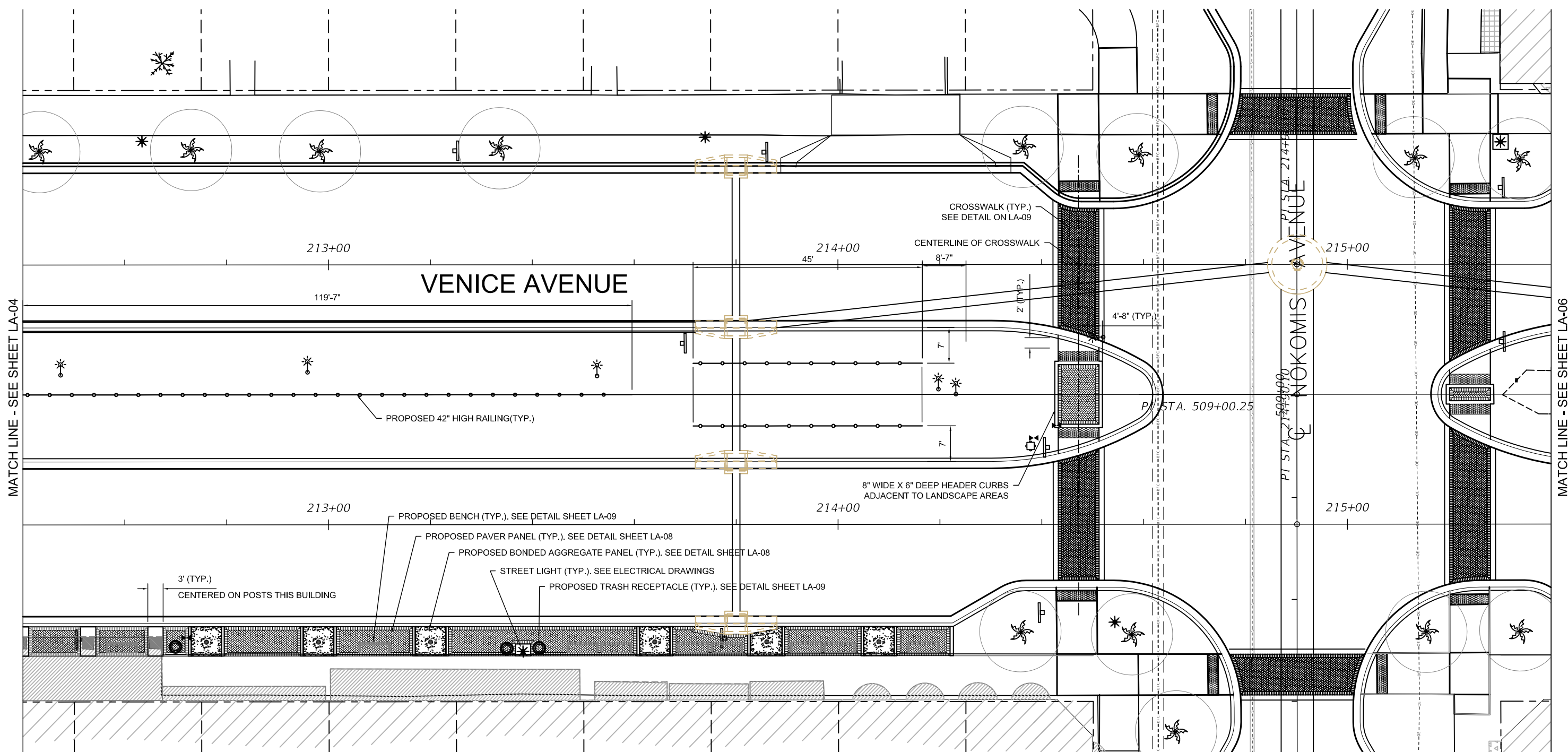
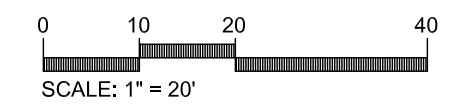


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MATCH LINE - SEE SHEET LA-05

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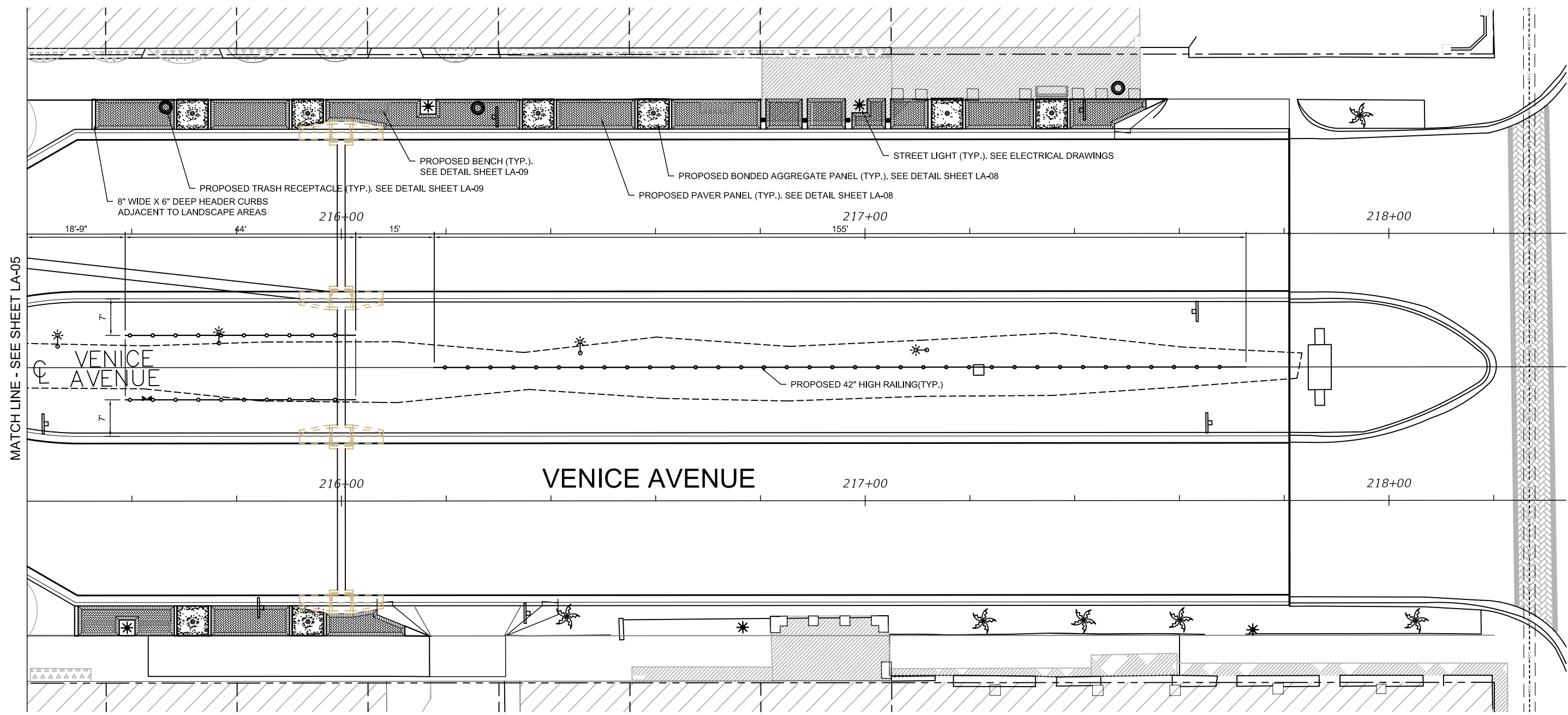
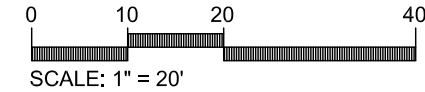


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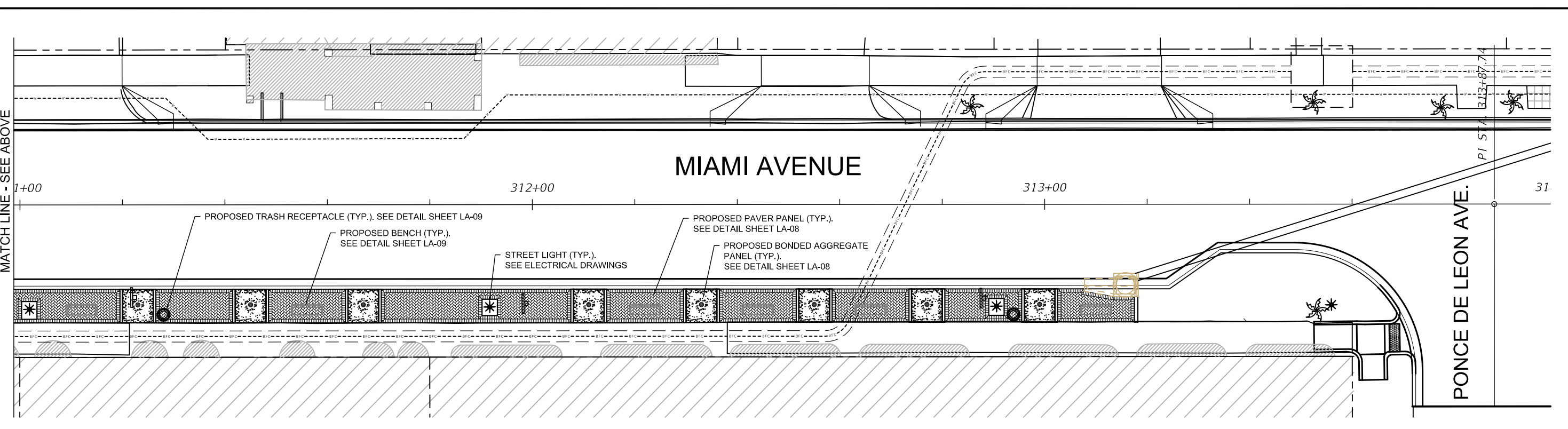
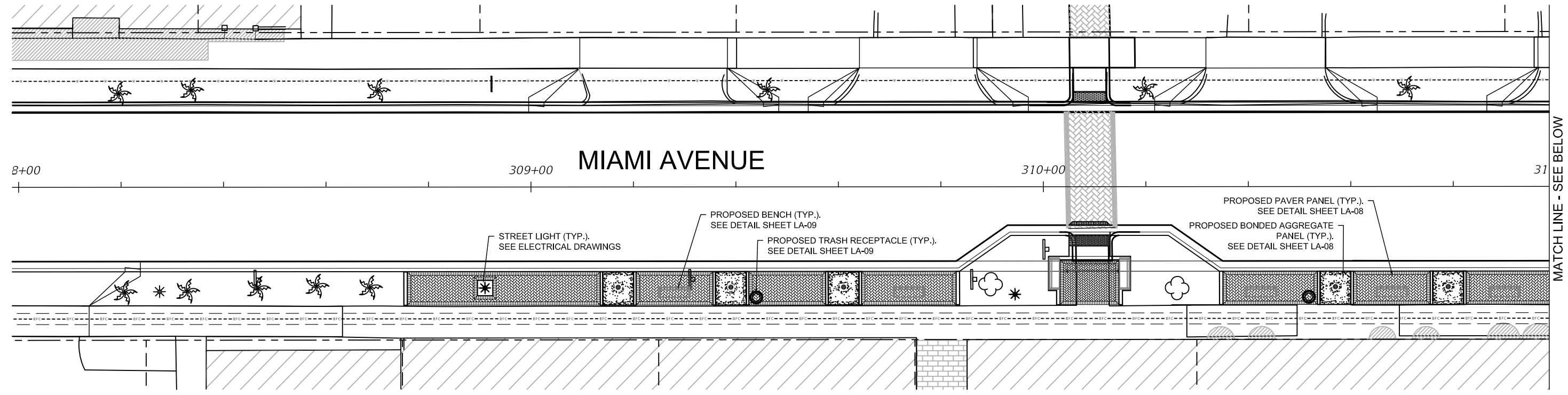
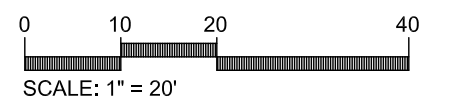
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MATCH LINE - SEE SHEET LA-06

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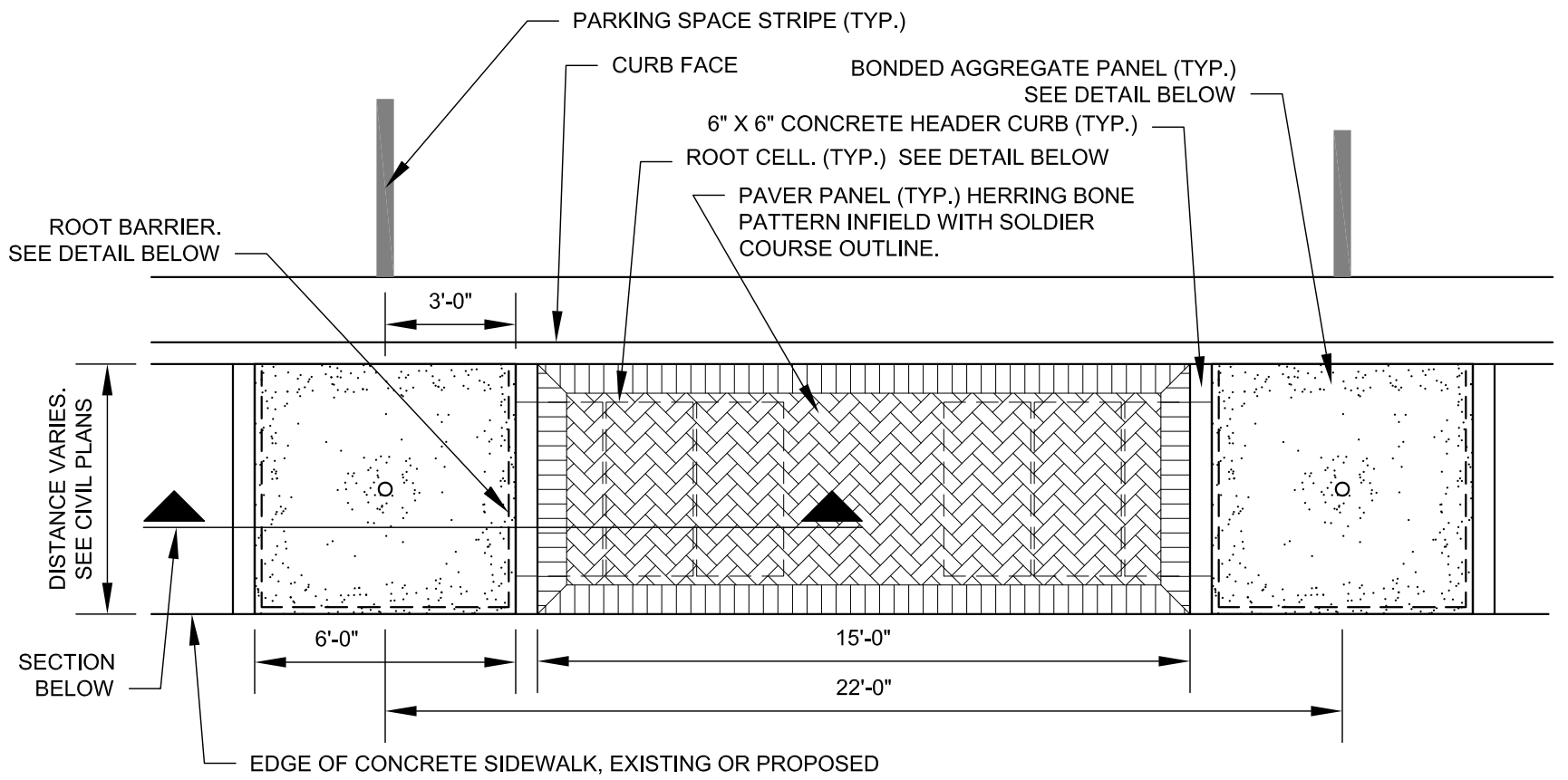
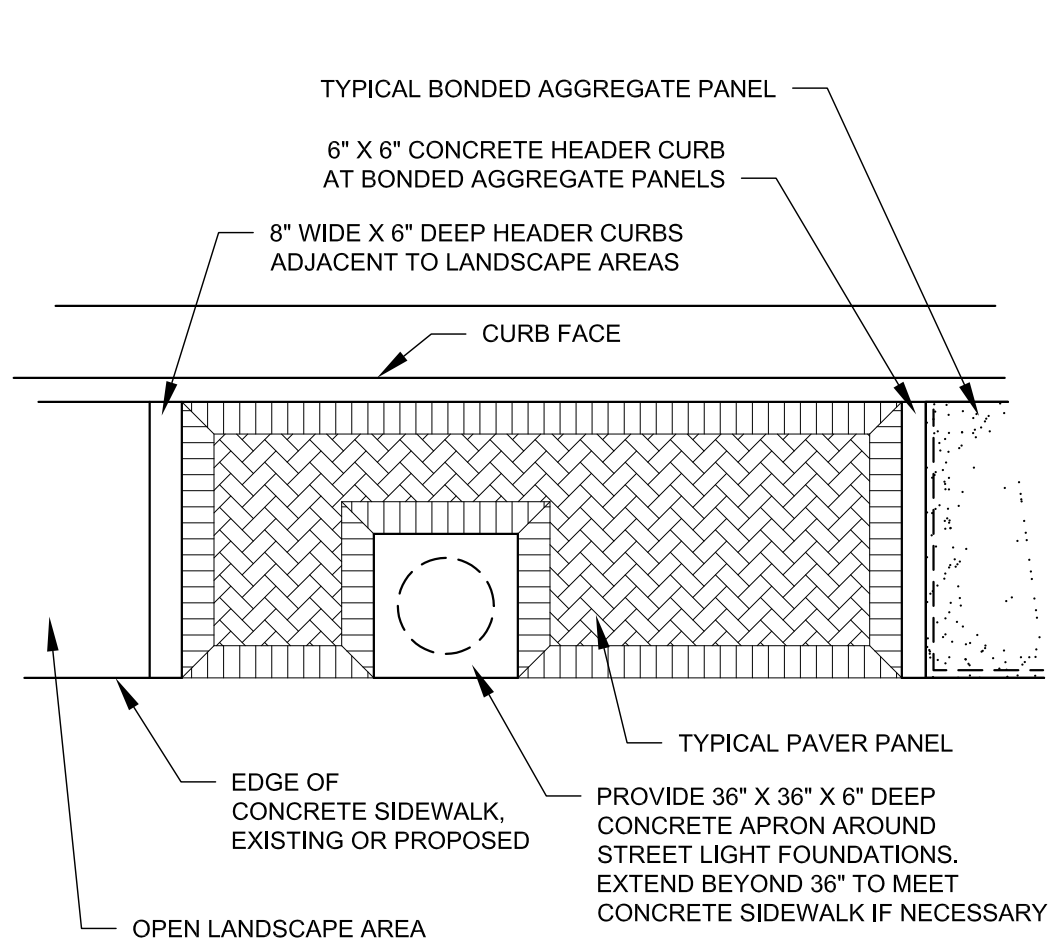
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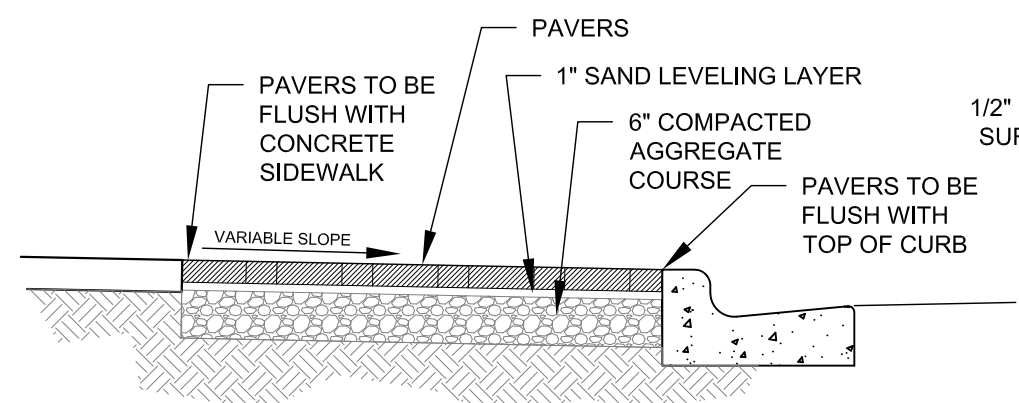
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			CHECKED <u>DL</u>						SHEET: LA-07

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PLAN OF HARSCAPE TYPICAL LAYOUT

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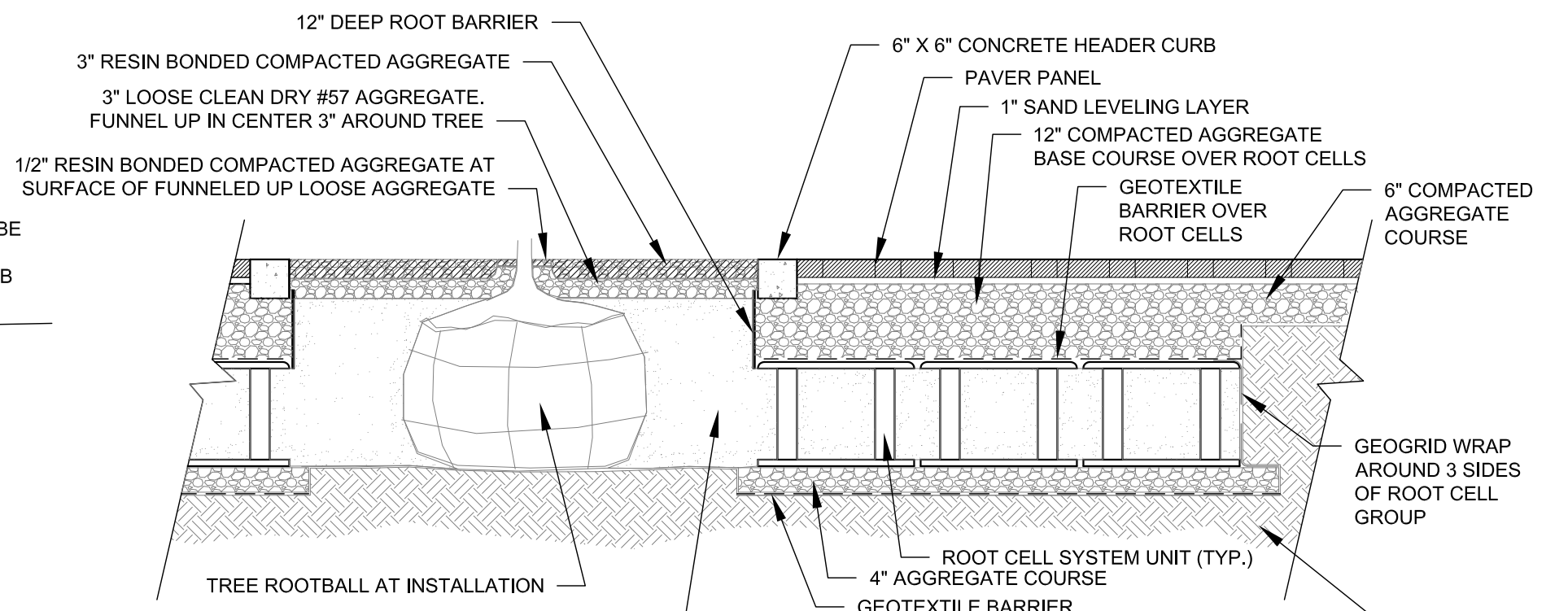


SECTION THROUGH PAVER PANEL

SCALE: 1/2"=1'-0"

PAVERS ON VENICE AVENUE ARE TO BE CLAY BRICK PAVERS. STYLE IS TO BE AN "ANTIQUE RUMBLED" IN THE COLOR BLEND OF "JAVA COURTYARD" AS MANUFACTURED BY PINE HALL BRICK, OR APPROVED EQUAL.

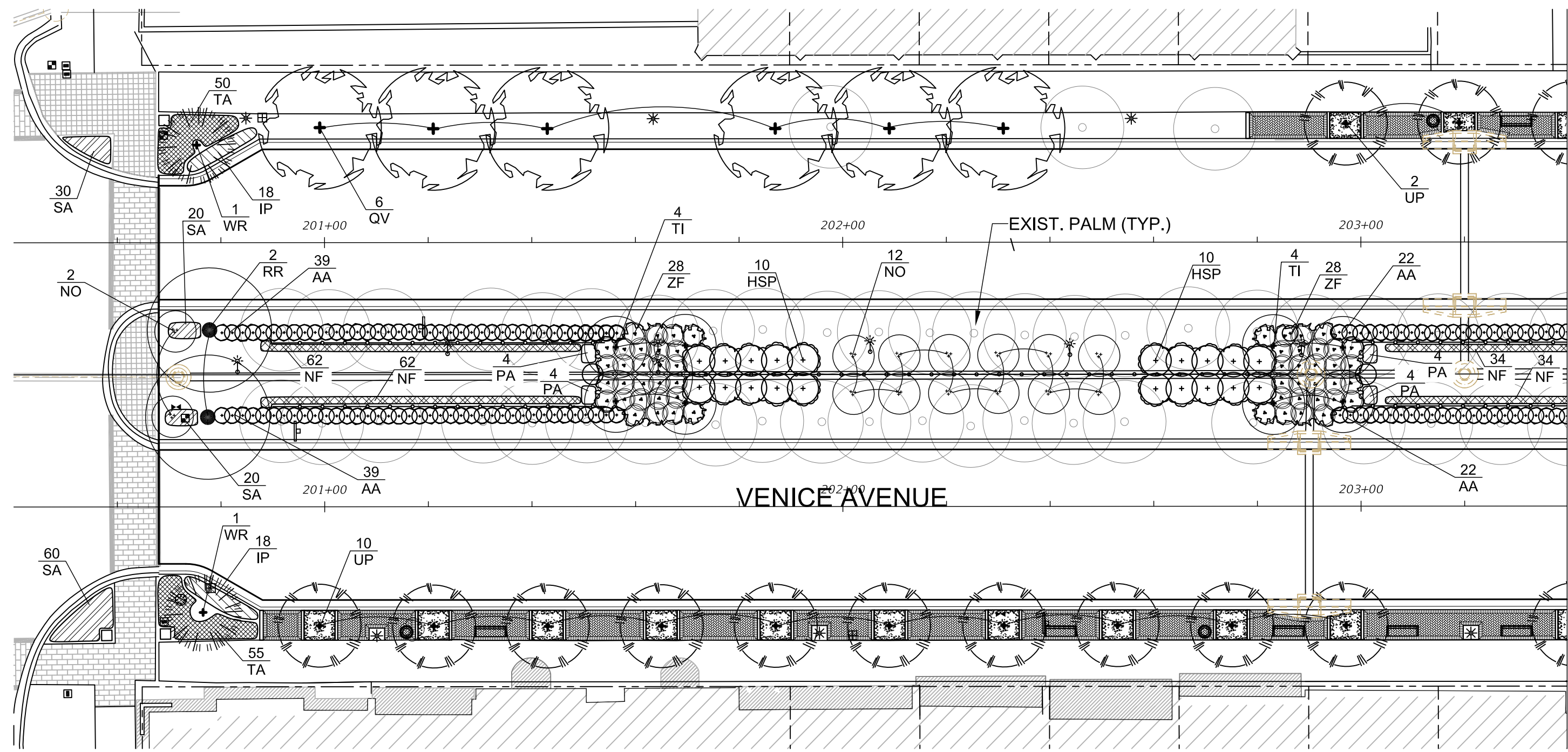
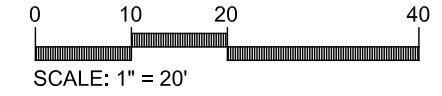
PAVERS ON MIAMI AVENUE ARE TO BE REUSE OF SALVAGED EXISTING PAVERS WITHIN THE PROJECT AREA ON MIAMI AVENUE.



SECTION THROUGH TREE PIT AND ROOT CELLS

SCALE: 1/2"=1'-0"

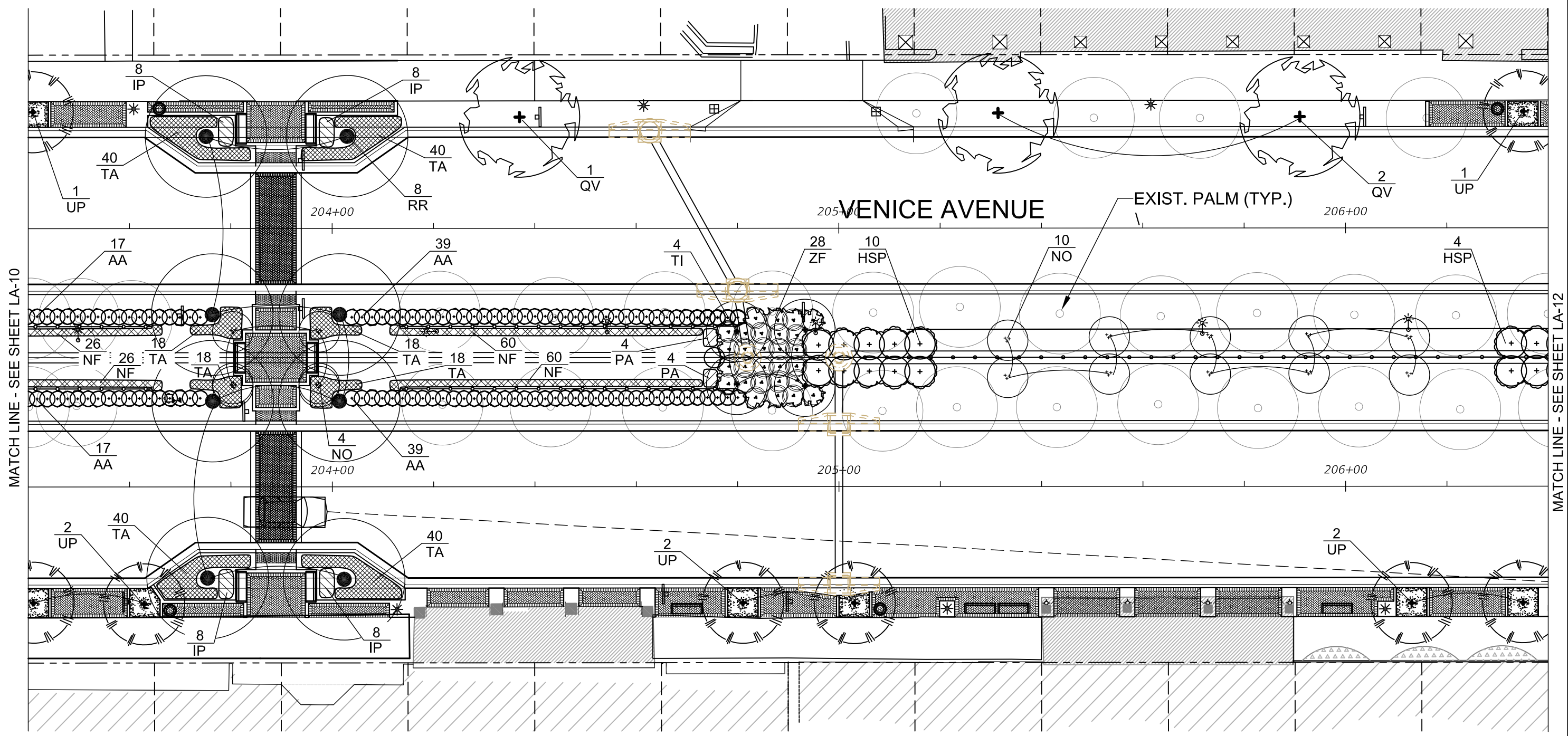
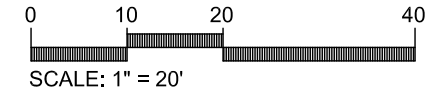
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CHECKED <u>DL</u>						SHEET: LA-08
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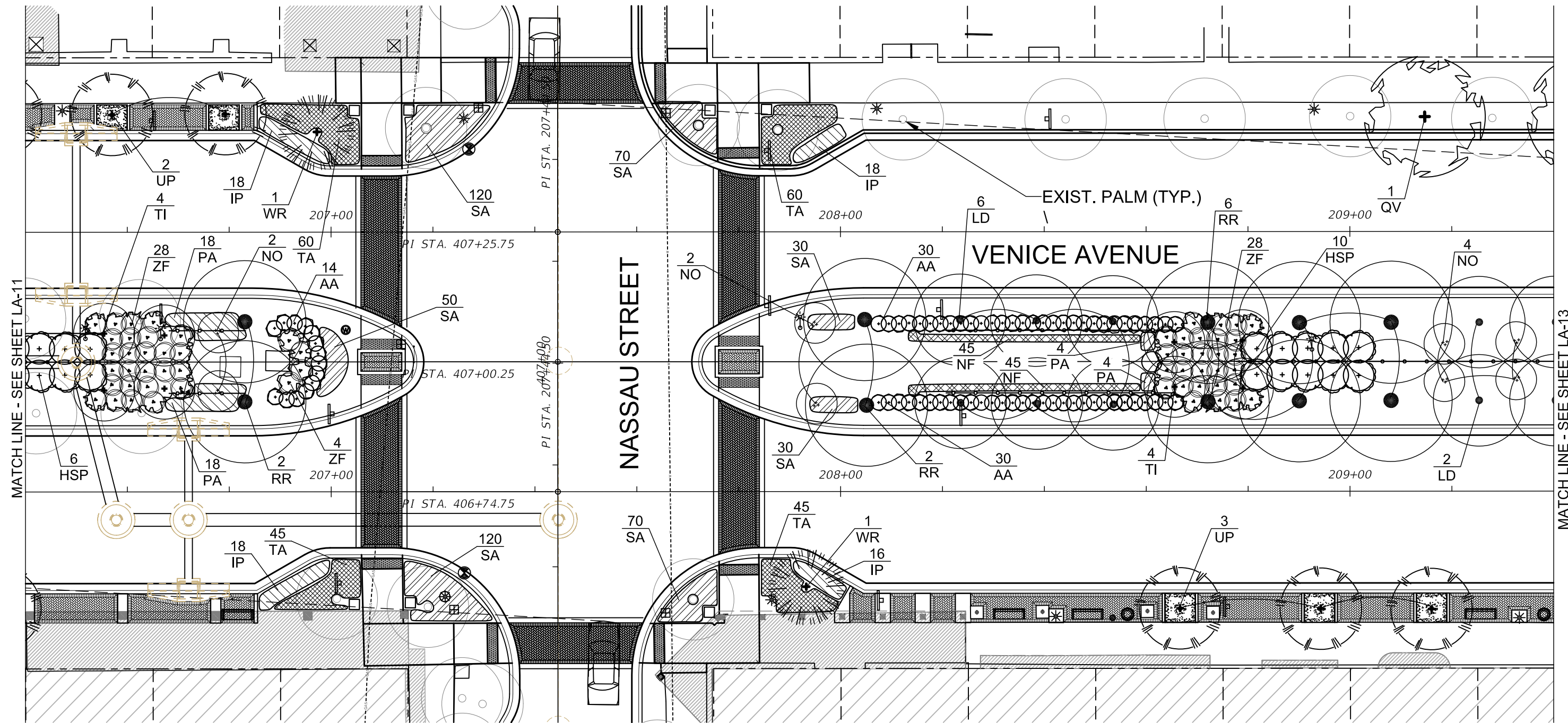
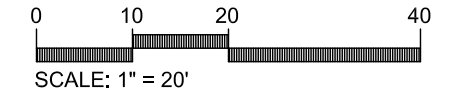


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MATCH LINE - SEE SHEET LA-12

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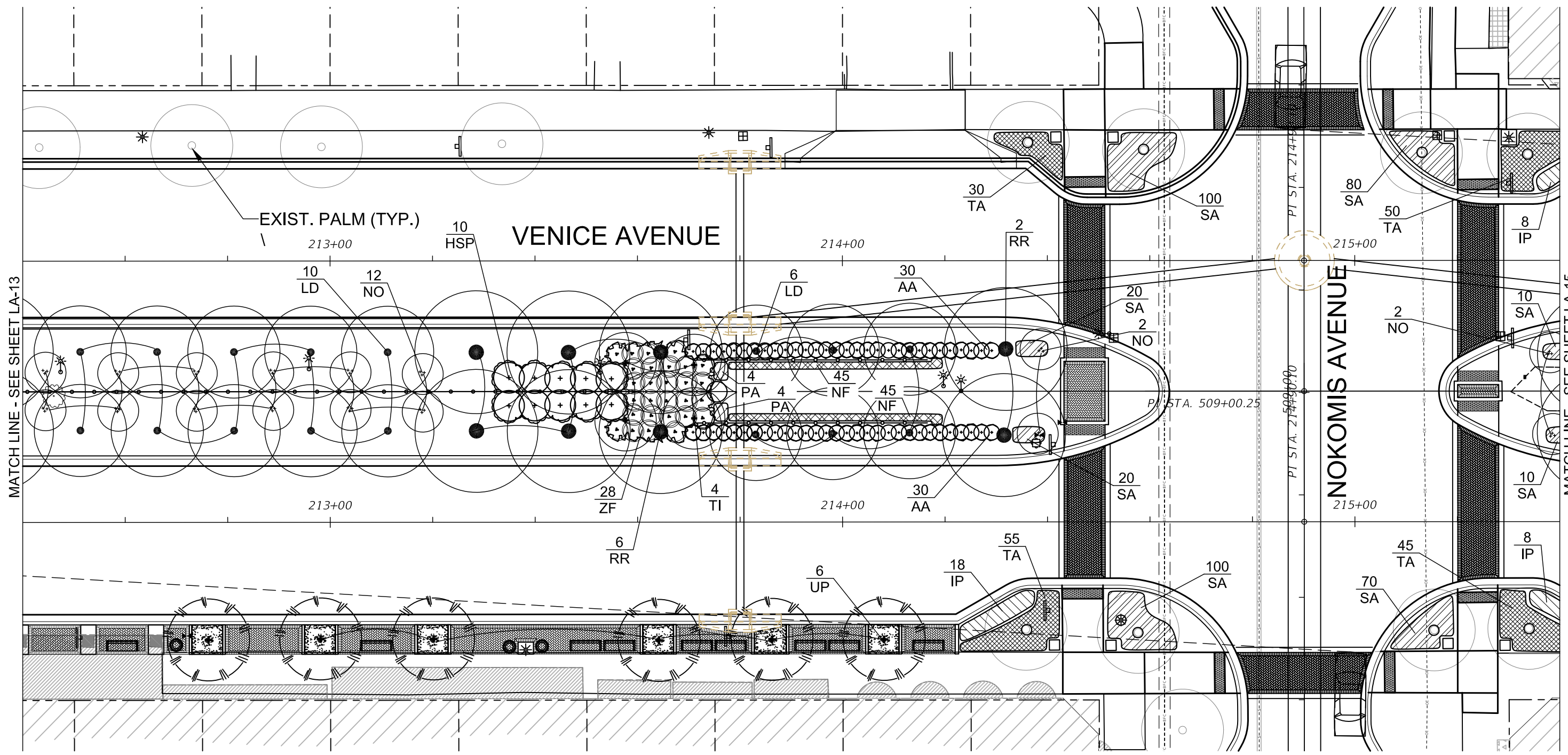


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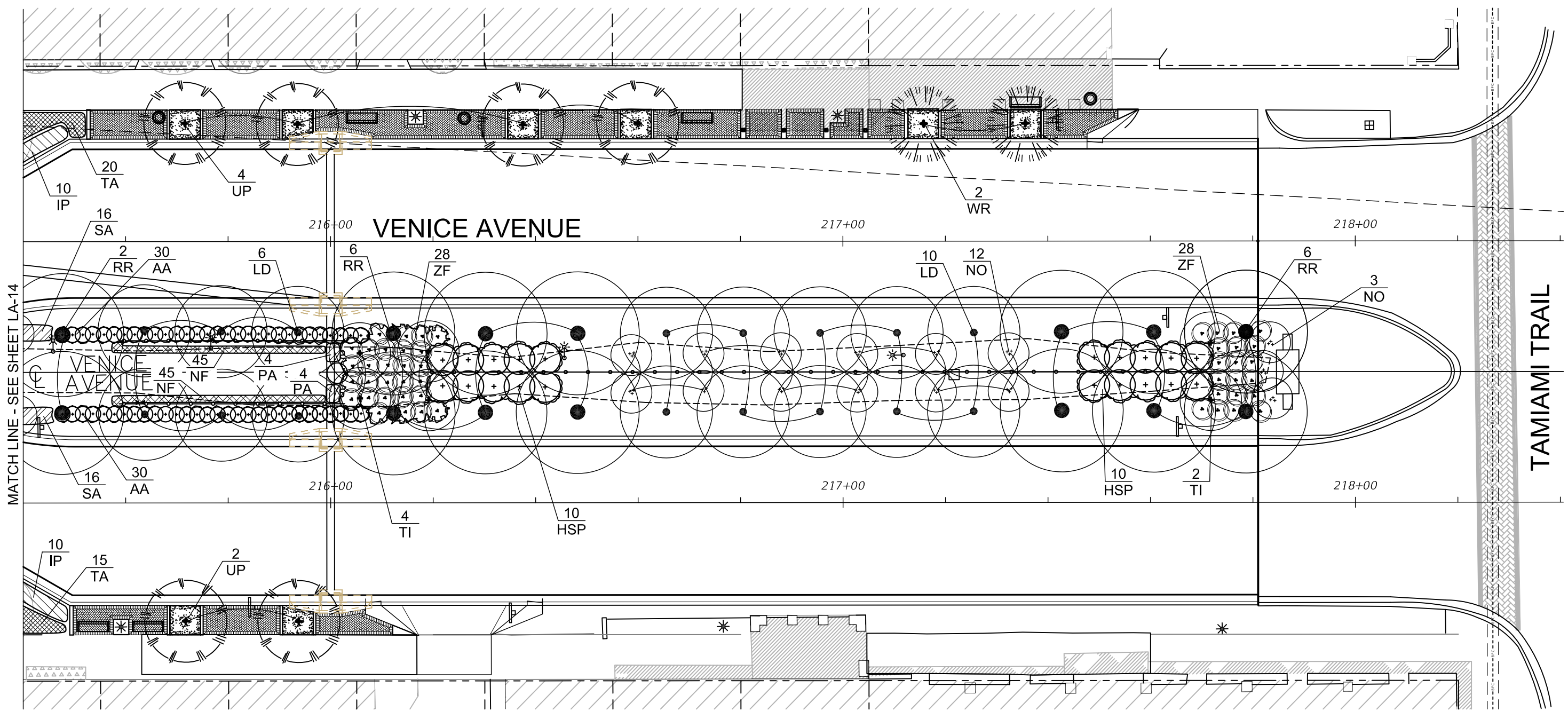
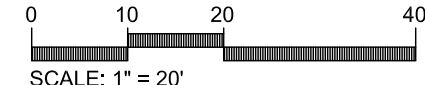
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REV. NO.	DATE	DESCRIPTION	DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---
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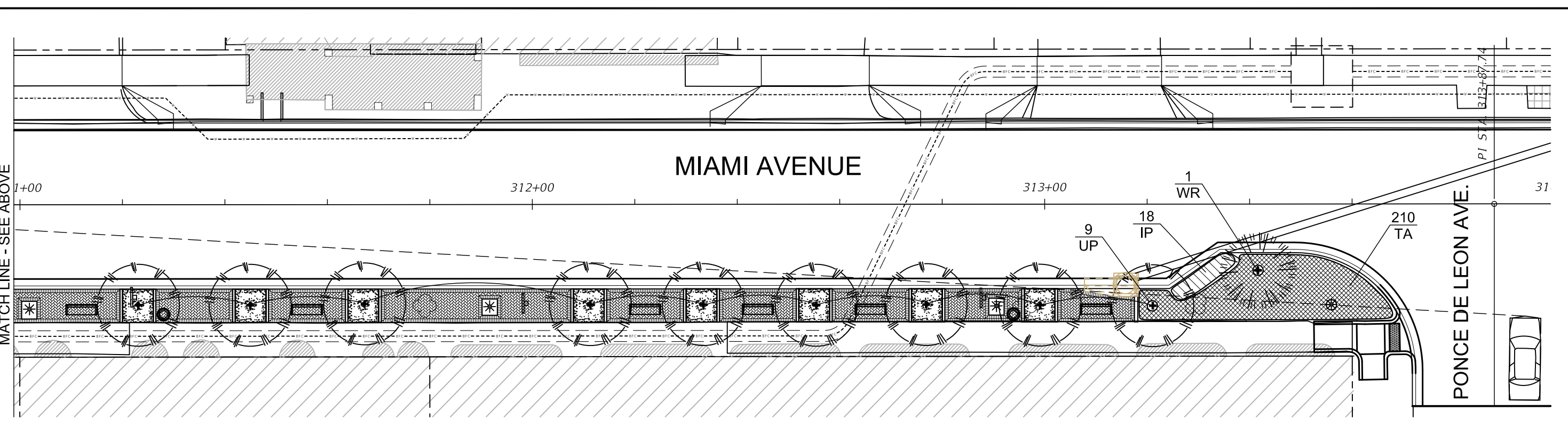
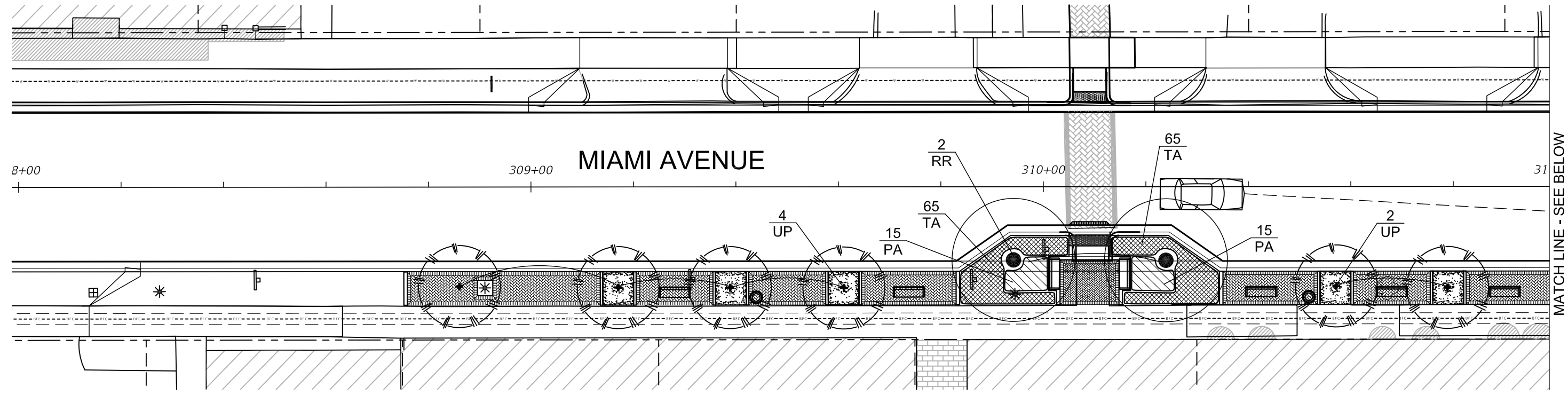
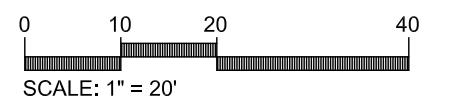


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MATCH LINE - SEE ABOVE

MATCH LINE - SEE BELOW

PONCE DE LEON AVE.



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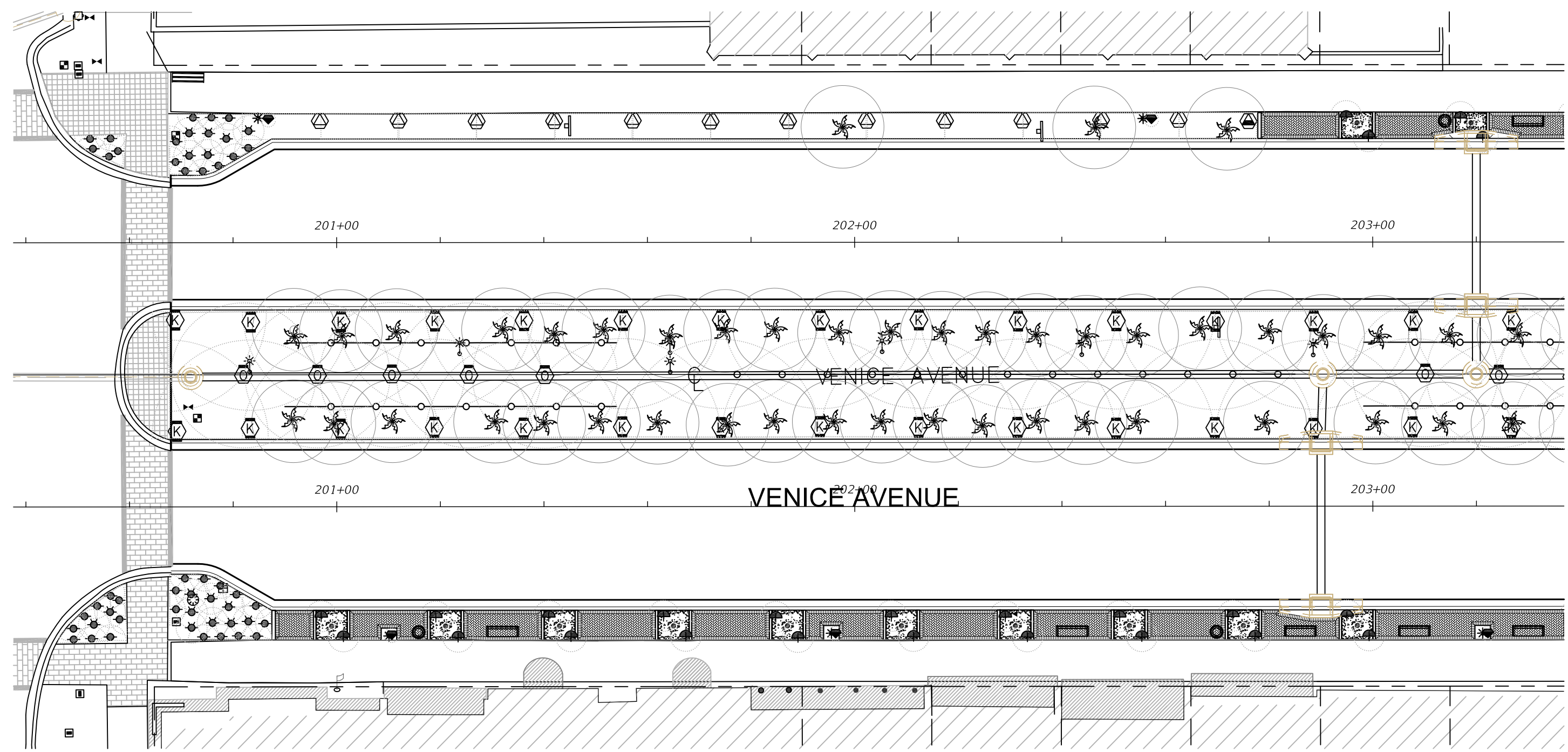
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LANDSCAPE NOTES

1. ALL PLANTING TO CONFORM TO ALL APPLICABLE LAWS OF THE CITY OF VENICE.
2. ABOVE AND BELOW GRADE UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK. IF UTILITY CONFLICTS BECOME EVIDENT, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR ANY NECESSARY ADJUSTMENTS. WHEN WORKING IN AREAS WHERE UTILITIES ARE KNOWN TO EXIST, UTILITY LOCATIONS MAY NEED TO STAKED BY A SURVEYOR OR UTILITY COMPANY. THE CONTRACTOR HAS THE OPTION TO CALL 'SUNSHINE ONE CALL' AT 1-800-432-4770 TO SCHEDULE LOCATION OF UTILITIES THAT SUBSCRIBE TO THEIR SERVICE.
3. ALL PLANT MATERIAL SHALL BE IN OPTIMUM CONDITION, FREE OF ALL INSECTS AND DISEASE, AND SHALL BE EQUAL OR SUPERIOR TO FLORIDA #1 PER THE STATE OF FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.
4. PLANTING BACKFILL MIX SHALL BE 4 PARTS NATIVE SOIL FROM EXCAVATION AND 1 PART PEAT OF OTHER APPROVED COMPOST MIX.
5. APPLY AN 8-10-10 FERTILIZER WITH MINOR ELEMENTS TO ALL NEW PLANTING AT THE RATE RECOMMENDED BY THE MANUFACTURER. SUBMIT PROPOSED FERTILIZER FOR APPROVAL BEFORE APPLICATION.
6. IT WILL BE THE SOLE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO INSURE THAT ALL NEW PLANTING RECEIVE ADEQUATE WATER DURING INSTALLATION AND THROUGHOUT THE PLANT WARRANTEE PERIODS. DEEP WATERING OF ALL NEW PLANTS AND ANY SUPPLEMENTARY WATERING THAT MAY BE REQUIRED TO AUGMENT NATURAL RAINFALL OR SITE IRRIGATION IS MANDATORY TO INSURE PROPER PLANT DEVELOPMENT AND SHALL BE PROVIDED AS PART OF THIS CONTRACT.
7. IF REQUIRED, PRUNING OF EXISTING TREES AS FIELD DIRECTED BY OWNER'S REPRESENTATIVE SHALL BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST IN THE FIELD.
8. LANDSCAPE CONTRACTOR SHALL REPAIR, RELOCATE AND/OR REPLACE ANY DAMAGED OR REMOVED LANDSCAPE AFFECTED BY CONSTRUCTION NOT DELINEATED ON THE DEMOLITION PLANS. CONTRACTOR SHALL OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO ANY REMEDIATION LANDSCAPE EFFORTS.
9. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY QUANTITY DISCREPANCIES BETWEEN SCHEDULE AND PLAN PRIOR TO CONSTRUCTION.
10. SOD TO INCLUDE ALL DISTURBED AREAS THAT ARE NOT TO RECEIVE LANDSCAPE OR HARDSCAPE. CONTRACTOR SHALL CONFIRM SOD QUANTITY PRIOR TO BID.
11. PLANT MATERIAL SHALL MEET OR EXCEED ALL SPECIFICATIONS REGARDING SIZING. IT MAY BE NECESSARY TO EXCEED SOME OF THE SPECIFICATIONS TO MEET THE MINIMUM REQUIREMENTS OF OTHERS.



PLANT SCHEDULE					
KEY	SCIENTIFIC NAME	COMMON NAME	QTY.	SIZE	REMARKS
PALMS					
LD	LIVISTONA DECORA	RIBBON PALM	60	12' CLEAR TRUNK	MATCHED
RR	ROYSTONEA REGIA	ROYAL PALM	64	18' GREY WOOD	MATCHED
WR	WASHINGTONIA ROBUSTA	WASHINGTON PALM	8	18' CLEAR TRUNK	.
TREES					
NO	NERIUM OLEANDER 'CALYPSO'	CALYPSO OLEANDER	79	10' HT. x 5' SPR.	TREE TYPE
QV	QUERCUS VIRGINIANA	LIVE OAK	11	14' HT. x 6' SPR.	2 1/2" CALIPER MIN.
TI	TABEBUIA IPETIGINOSA	PURPLE TABEBUIA	38	12' HT. x 6' SPR.	2" CALIPER MIN.
UP	ULMUS PARVIFOLIA 'BOSQUE'	BOSQUE ELM	57	12' HT. x 6' SPR.	2" CALIPER MIN.
SHRUBS					
AA	AGAPANTHUS AFRICANUS	NILE LILY	528	18" HT. x 18" SPR.	24" O.C.
HSP	HIBISCUS 'SEMINOLE PINK'	SEMINOLE PINK HIBISCUS	100	36" HT. x 18" SPR.	60" O.C.
IP	IVORA 'PETITE'	DWARF IXORA	242	16" HT. x 12" SPR.	18" O.C.
PA	PLUMBAGO AURICULATA	LEADWORT	114	16" HT. x 16" SPR.	18" O.C.
ZF	ZAMIA FURFURACEA	CARDBOARD PALM	284	24" HT. x 24" SPR.	36" O.C.
GROUND COVERS					
NF	NEOREGELIA 'FIREBALL'	FIREBALL BROMELIAD	769	8" HT. x 8" SPR.	12" O.C.
SA	...(VARIES PER SEASON)...	SEASONAL ANNUALS	1062	4" POTS	12" O.C.
TA	TRACHELOSPERMUM ASIATICUM	DWARF JASMINE	1374	12" SPR., 1 GALLON	18" O.C.
TURF					
	STENOTAPHRUM SECUNDATUM	ST. AUGUSTINE FLORITAM			

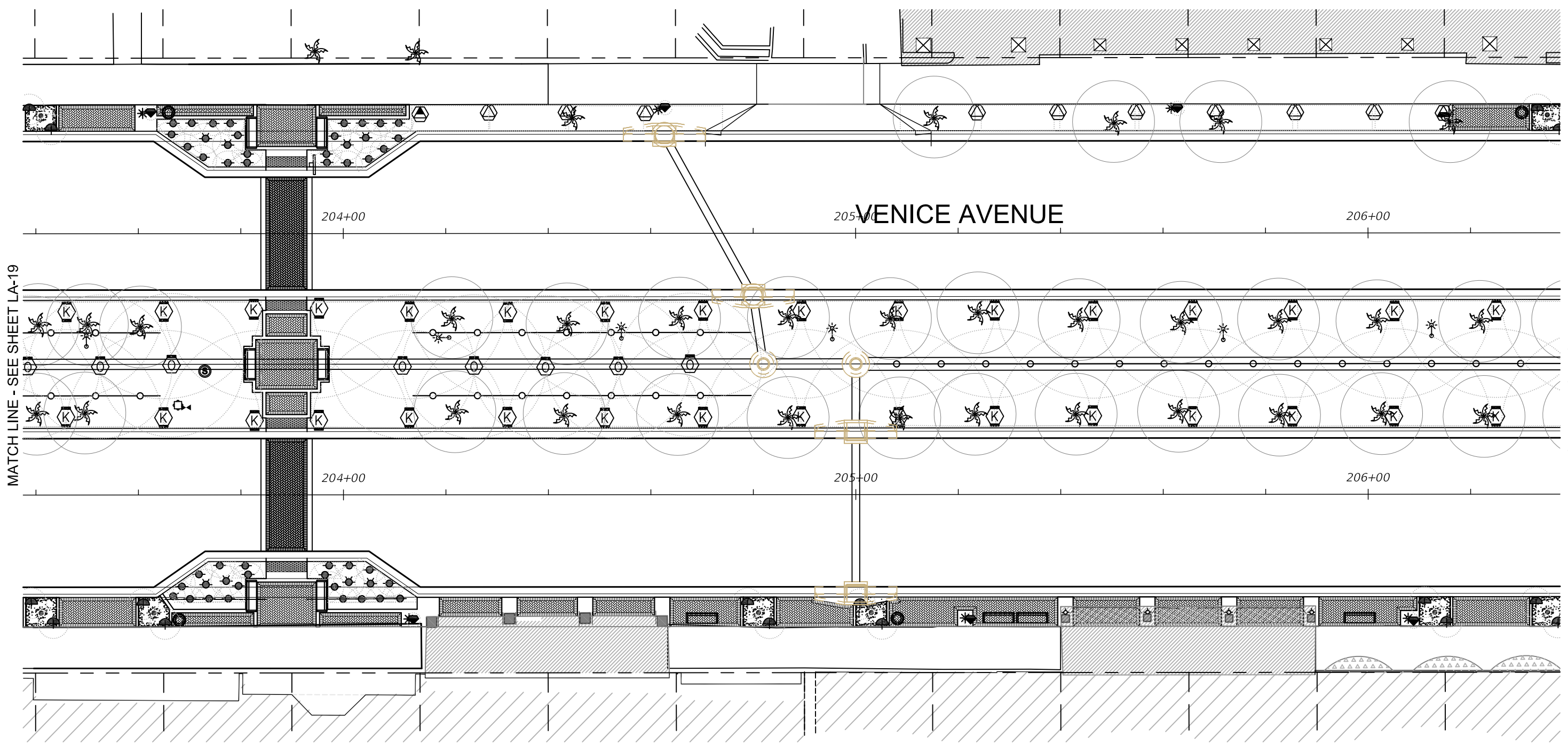
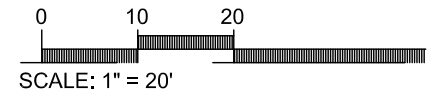
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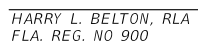
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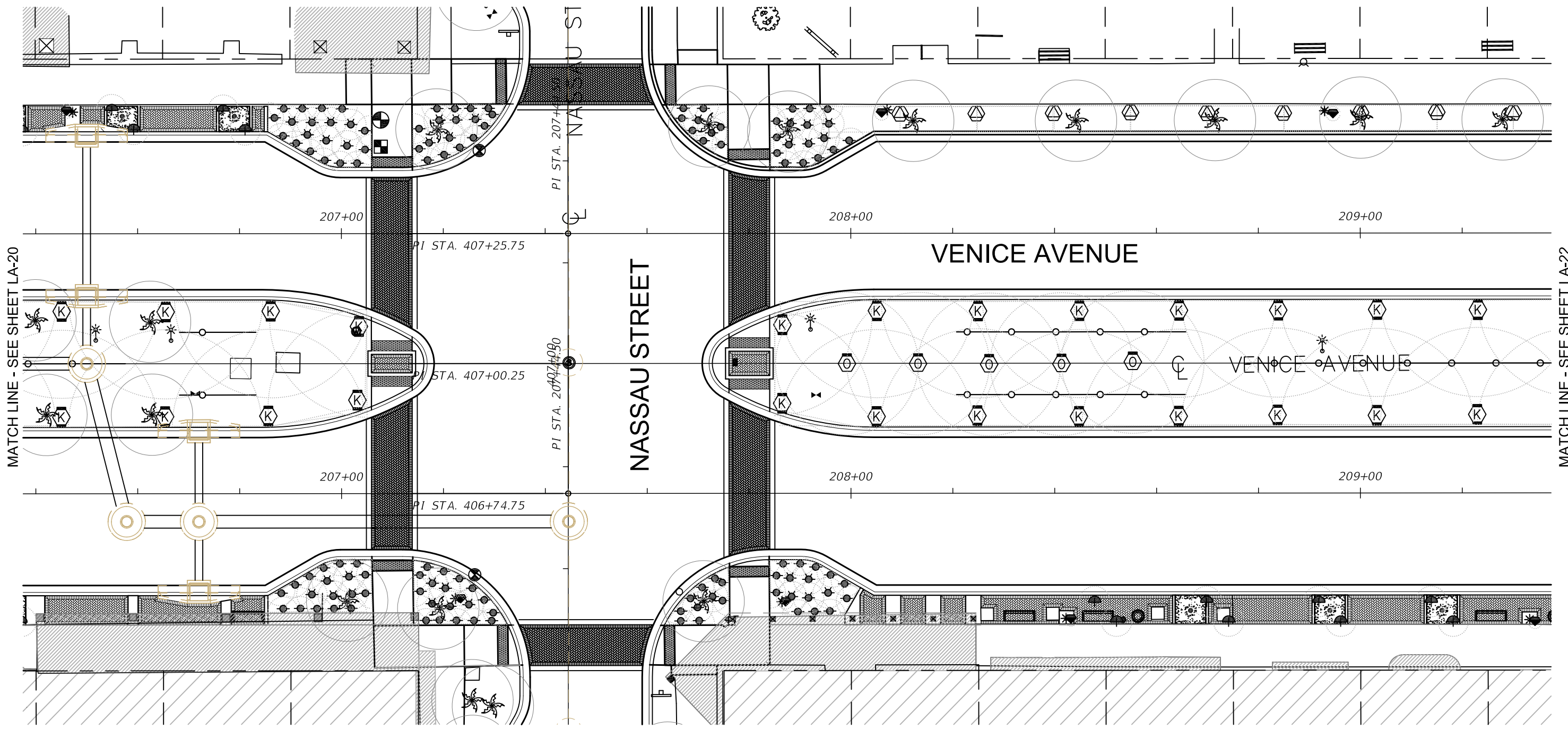
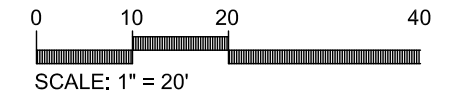
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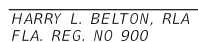


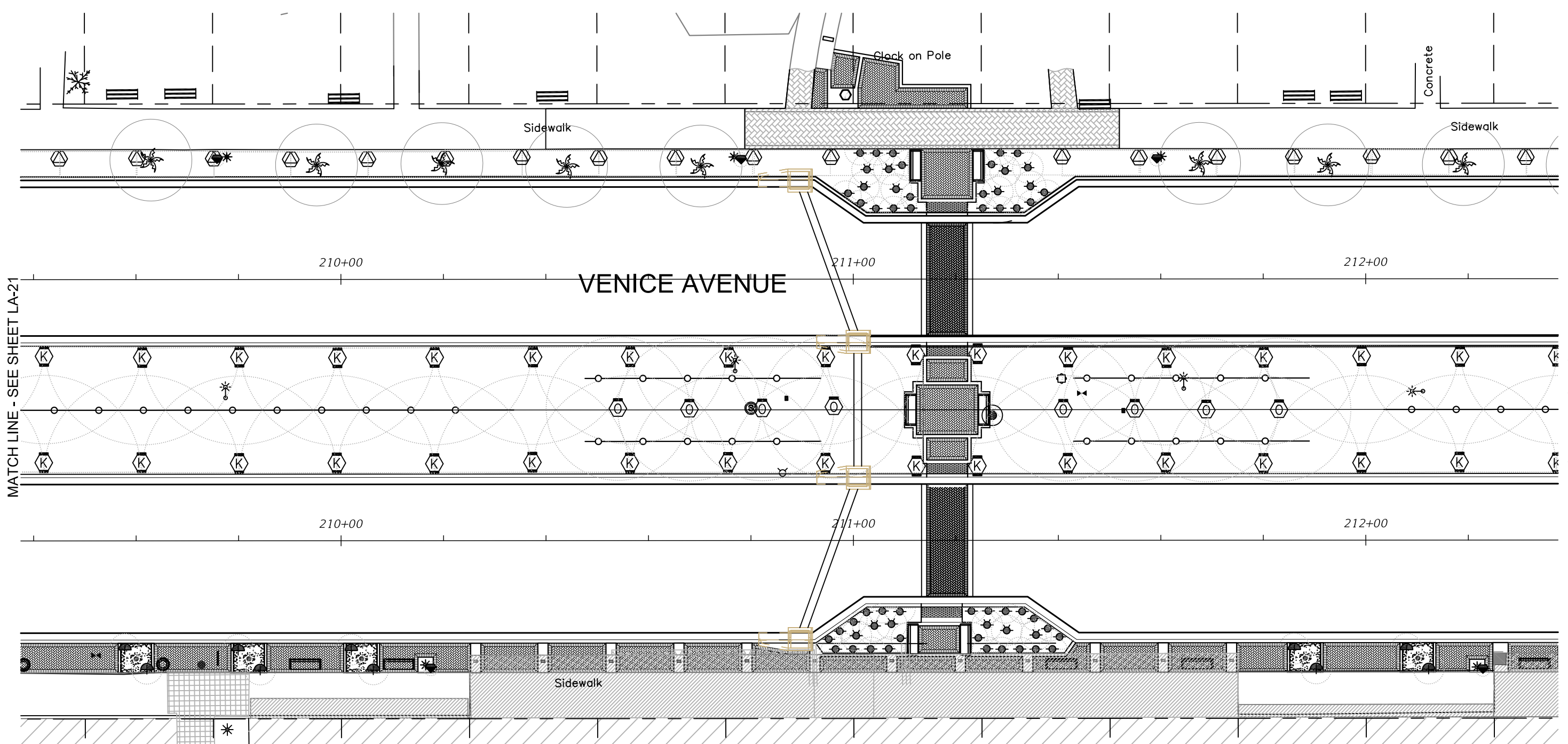
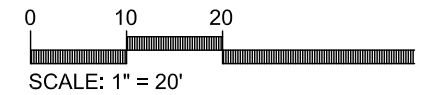
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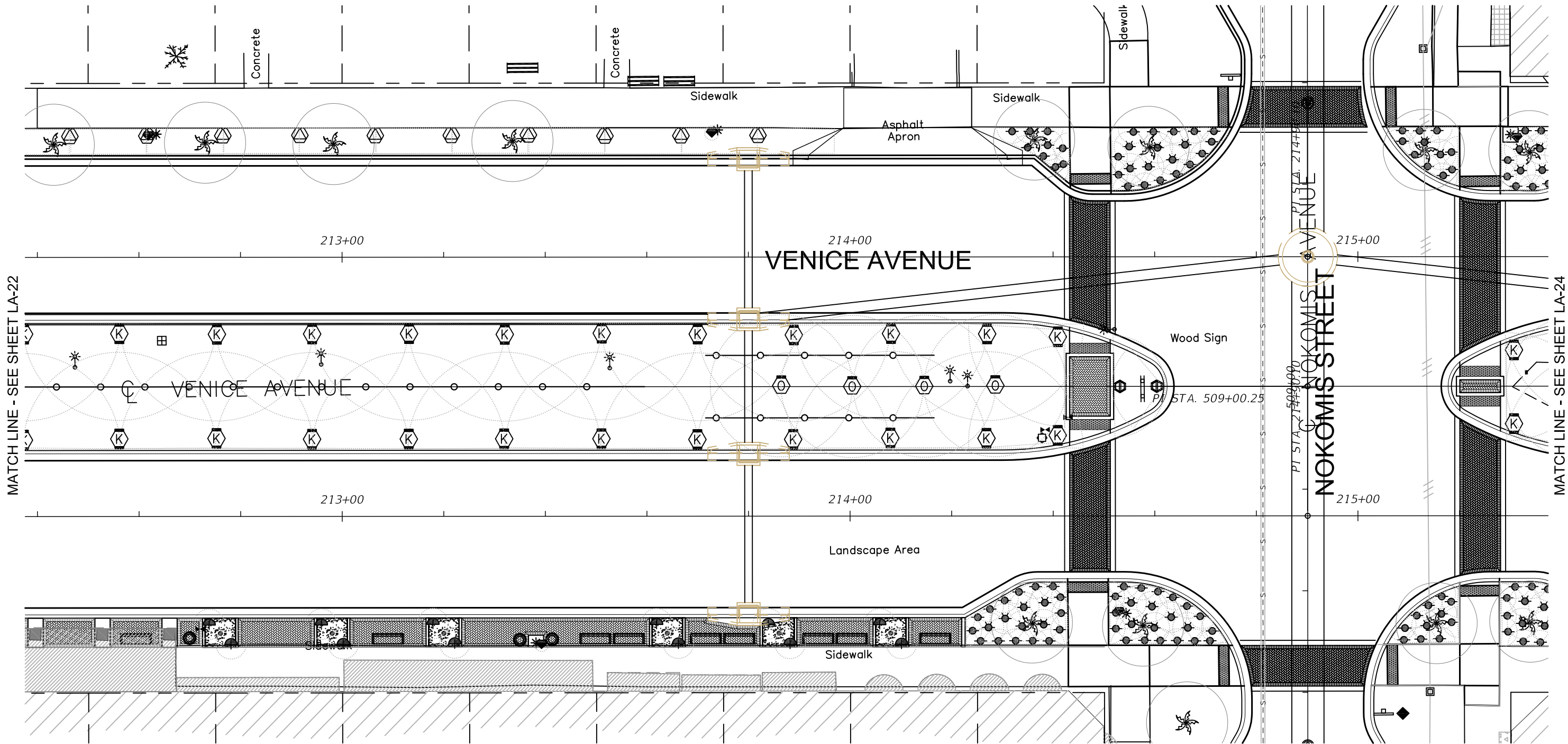
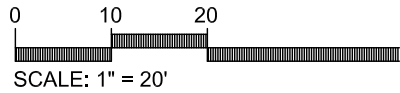


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MATCH LINE - SEE SHEET LA-21

MATCH LINE - SEE SHEET LA-23

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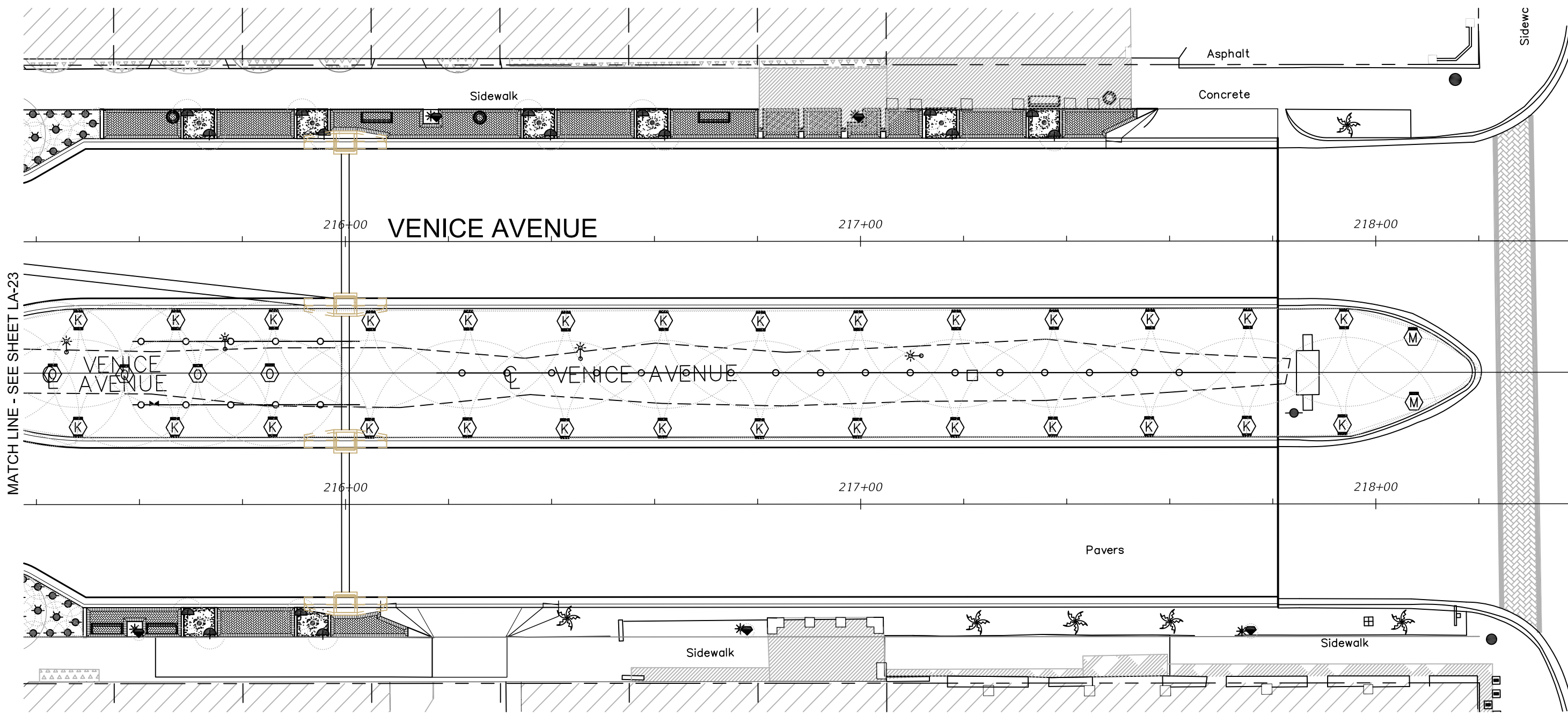
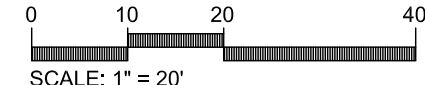


MATCH LINE - SEE SHEET LA-22

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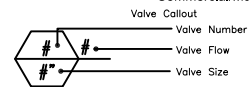
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Hunter MP1000 PROS-06-PRS40-CV	2	90-210	40		14'
	Hunter MP1000 PROS-06-PRS40-CV	36	360	40	0.84	14'
	Hunter MP2000 PROS-06-PRS40-CV	172	90-210	40		19'
	Hunter MP800SR PROS-06-PRS40-CV	2	Adj	40		10'
	Hunter MP Strip PROS-06-PRS40-CV	2	LCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	1	RCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	58	SST	40	0.44	5'x30'
	Hunter PROS-PRS30-06-CV-MSBN	310	180	30	1.00	3'
	Hunter PROS-PRS30-06-CV-MSBN	110	360	30	2.00	3'
	Hunter PROS-PRS30-06-CV-MSBN	1	90	30	0.50	3'
	Hunter RZWS-SLEEVE-18-CV	90	360	30	0.50	3'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ACZ-075-25 Drip control kit featuring a 3/4" PGV-ASV valve, with 3/4" HY075 filter system, and 25psi pressure regulated. Flow range: 0.5 GPM to 15 GPM. With 150 mesh stainless steel screen.	1
	Hunter SD-B-STK Drip 360 Micro Spray for Residential/Commercial Use. Eight streams of water, with 360 degree spray. 15psi to 30psi. Solo-Drip with Barb and 6" Stake.	33

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1

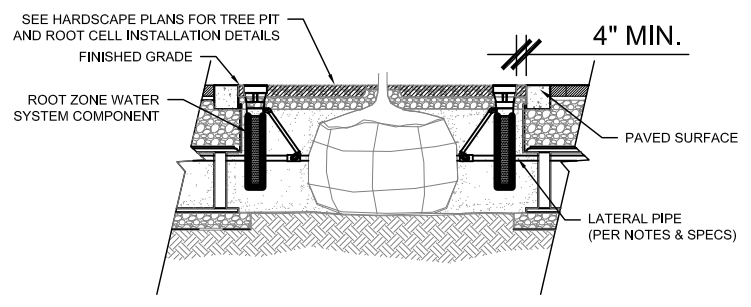


IRRIGATION NOTES :

1. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION ACTIVITIES.
2. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
3. PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREA (EXCEPT FOR SLEEVING) AND WITHIN THE RIGHT OF WAY.
4. ALL IRRIGATION COMPONENTS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER'S RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.
5. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.
6. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION.
7. NO EXCAVATION SHALL TAKE PLACE UNTIL ALL EXISTING UTILITIES HAVE BEEN LOCATED ON SITE. CONTACT SUNSHINE STATE ONE CALL, TELEPHONE NUMBER 811, AND THE PUBLIC WORKS DEPARTMENT TWO BUSINESS DAYS PRIOR TO EXCAVATION.
8. ZONE LINES ARE DESIGNED TO PERFORM AT 40 PSI AT THE LAST HEAD FOR ROTARY SPRAY AND BUBBLER ZONES AND 30 PSI AT THE LAST HEAD FOR DRIP EMITTERS. APPROPRIATE PRESSURE REGULATING ITEMS SHALL BE INSTALLED AS NOTED IN THE PLANS.
9. ZONE LINE PIPING SHALL BE CLASS 200 PVC PLASTIC PIPE OR APPROVED EQUAL.
10. THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 40 PVC INSTALLED 18" BELOW THE FINISHED GRADE AND 36" BELOW FINISHED GRADE OF ROADWAY. FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.
11. IRRIGATION SLEEVE PIPING SHALL BE SCHEDULE 40 PVC FOR TRENCHES AND DR17 (100PSI) HDPE PIPE FOR DIRECTIONAL BORE ACTIVITIES. SLEEVE SHALL BE NO LESS THAN TWICE THE DIAMETER OF THE RECEIVING PIPE.
12. IRRIGATION LINES AND FITTINGS SHALL BE SOLVENT WELDED WITH E-2 WELD BLUE GLUE WITH WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
13. ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING. NO VALVE ENCLOSURES SHALL BE INSTALLED WITHIN A FENCED IN PLAYING SURFACE WITH THE EXCEPTION OF THE QUICK COUPLING VALVES FOR THE BASEBALL FIELDS.
14. INCLUDE INSTALLATION OF 30MIL, 12 AWG TRACER WIRE ALONG THE MAINLINE.
15. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE, #12 IRRIGATION CONTROL WIRE AND #10 WHITE COMMON WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. MAKE ELECTRICAL CONNECTIONS WITH IRRIGATION GRADE, WATERPROOF CONNECTORS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER. PROVIDE TWO EXTRA SPARE WIRES TO THE LAST VALVE IN EACH DIRECTION.
16. FLUSH ALL LINES FOR A MINIMUM OF TEN MINUTES.
17. AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILLING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE AT THE WORKING PRESSURE WITH GAUGES AT OPPOSITE ENDS OF THE SYSTEM. MONITOR FOR TWO HOURS. THERE CAN BE NO PRESSURE LOSS. ALSO EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE.
18. ALL EXISTING IRRIGATION, INCLUDING ADJACENT SYSTEMS THAT MAY SHARE A WATER SOURCE, SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT NEW IRRIGATION MAIN INSTALLATION DOES NOT DISRUPT EXISTING IRRIGATION ACTIVITIES THROUGHOUT THE PROJECT AREA.
19. IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO THE LAYING OF SOD.
20. IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEM SHALL BE FULLY REPAIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.
21. AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE:
 - CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED
 - A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE INSTALLED
 - AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH AREA OF THE SITE
22. BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH TOWN STAFF IN THE FIELD. THIS MEETING WILL INFORM THE TOWN'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.
23. UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS, IRRIGATION WELL PERMITS AND CONDITIONS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

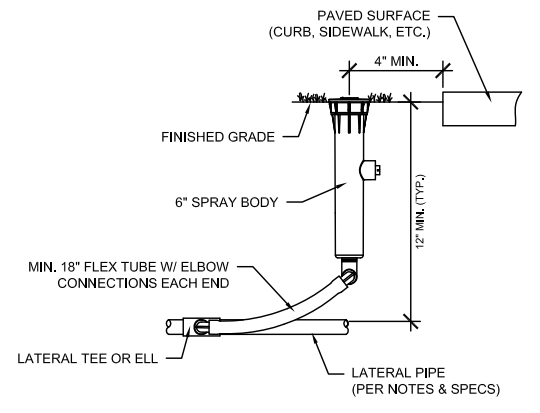
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DRAWN <u>JLK</u>						
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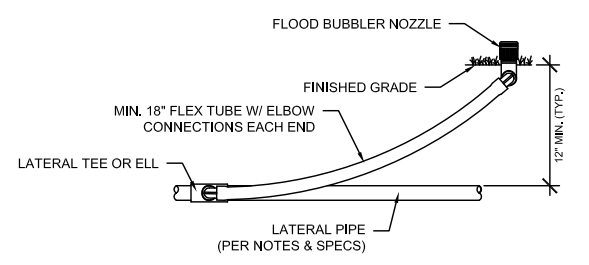
ROOT ZONE WATER SYSTEM

N.T.S.



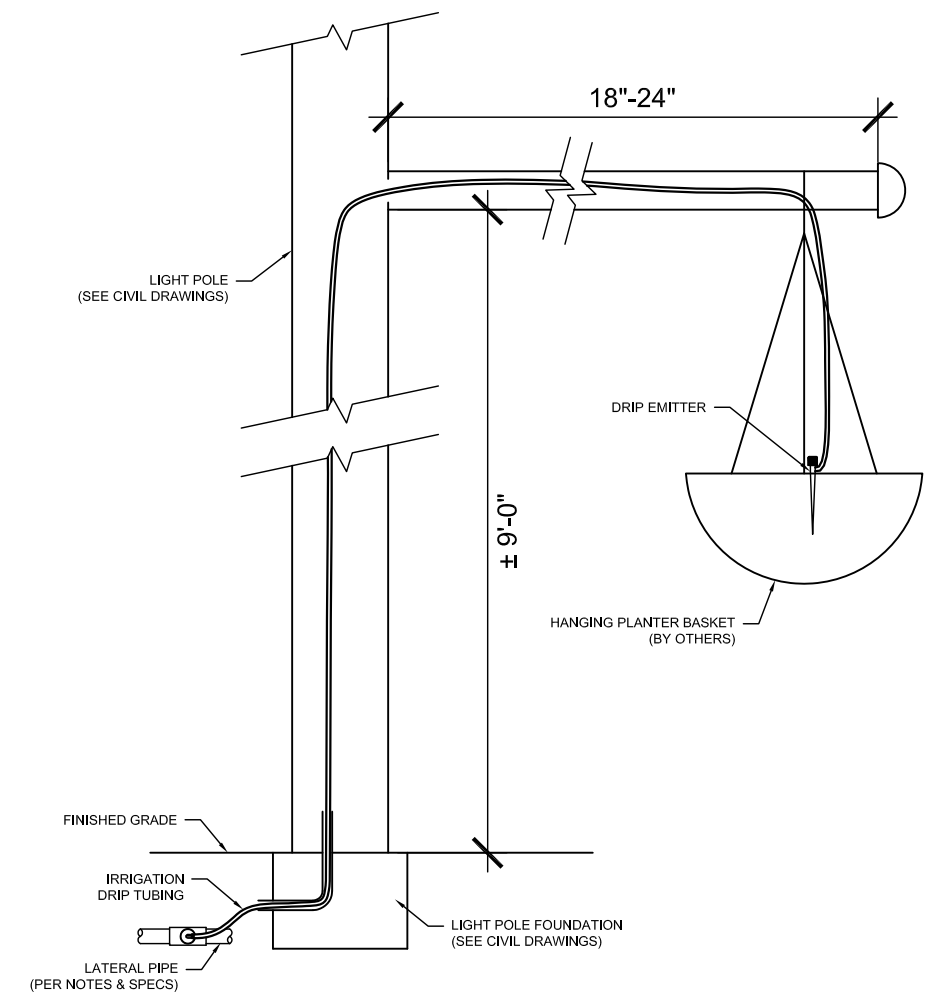
6" SPRAY BODY INSTALLATION

FOR USE WITH ALL NOZZLES (SPRAY, BUBBLER, ROTARY)
N.T.S.



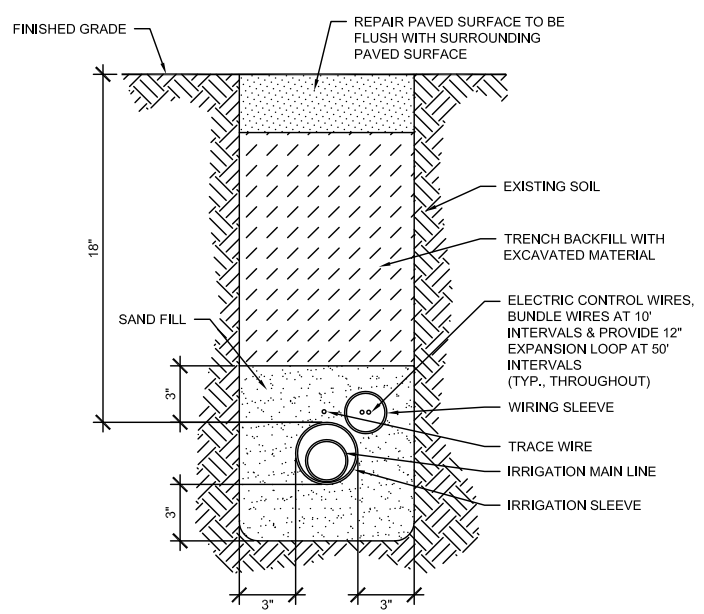
FLOOD BUBBLER INSTALLATION

N.T.S.



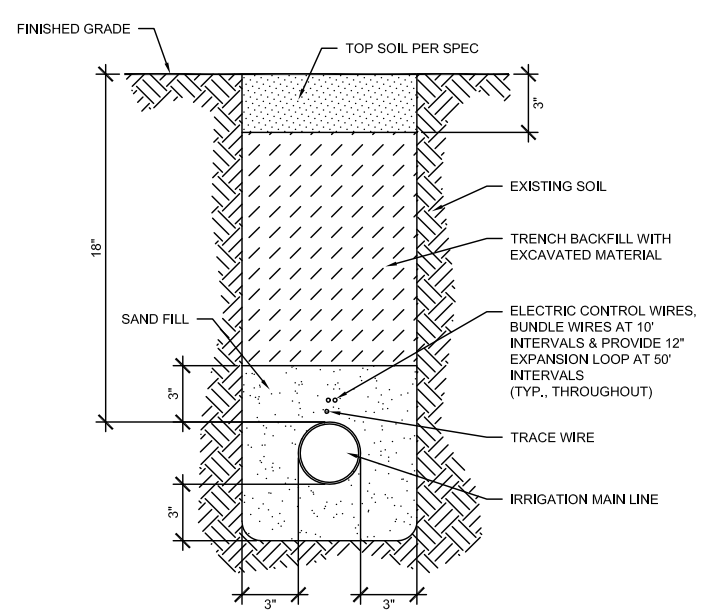
LIGHTPOLE PLANTER DRIP IRRIGATION

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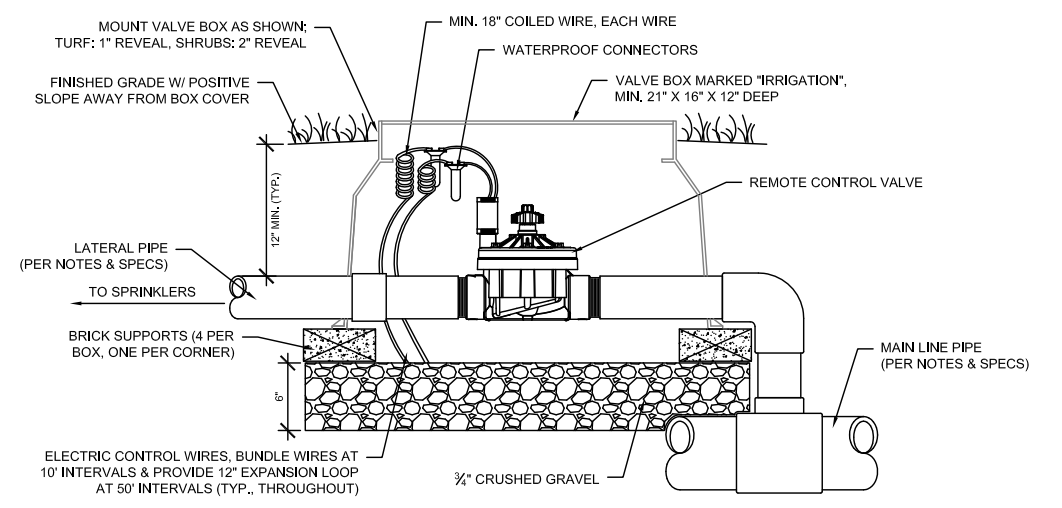
TRENCHING THROUGH PAVED SURFACE DETAIL

N.T.S.



TRENCHING DETAIL

N.T.S.



REMOTE CONTROL VALVE INSTALLATION

N.T.S.

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DRAWN	JLK	
CHECKED	DL	
REV. NO.	DATE	DESCRIPTION

PREPARED FOR:

PREPARED BY:

PROJECT: CITY OF VENICE
DOWNTOWN ROADWAY
CORRIDOR IMPROVEMENTS

DESCRIPTION: IRRIGATION DETAILS

APPROVED BY:

HARRY L. BELTON, RLA
FLA. REG. NO 900

DATE: ----
PROJECT NO.: 100054389
SHEET: LA-26