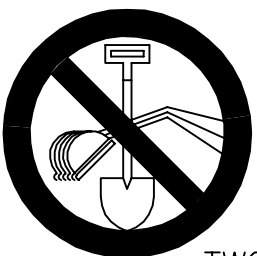


GENERAL CONSTRUCTION NOTES :

- ALL WORK SHALL CONFORM TO THE AASHTO "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" AND "STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", LATEST EDITION.
- APPLICATION FOR INSPECTION TO THE CITY OF COMMERCE DEPARTMENT OF PUBLIC WORKS SHALL BE MADE BY THE CONTRACTOR BEFORE THE SERVICES THEREOF WILL BE REQUIRED.REQUESTS FOR INSPECTION SHALL BE MADE 48 HOURS IN ADVANCE OF REQUIRED INSPECTION.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE COMPLETED WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA, AND RELOCATION COSTS OF ALL EXISTING UTILITIES. PERMITTEE MUST INFORM CITY OF CONSTRUCTION SCHEDULE AT LEAST 48 HOURS PRIOR TO BEGINNING
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY TO THE CITY ENGINEER'S OFFICE, PERMIT SECTION, PRIOR TO CONSTRUCTION FOR AN ENCROACHMENT.
- NO TRENCHES MAY BE LEFT OPEN OVERNIGHT UNLESS APPROVED BY THE CITY ENGINEER.
- IF ANY UTILITIES OR FACILITIES CONFLICT WITH PROPOSED IMPROVEMENTS, ALL WORK SHALL STOP, AND THE CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- ALL TRAFFIC CONTROL DEVICES, SIGNS, MARKINGS OR STRIPING SHALL BE IN PLACE PRIOR TO PAVING. STREET STRIPING SHALL BE COMPLETED PRIOR TO STREET OPENING.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AS REQUIRED PRIOR TO THE START OF WORK. UPON EXPOSING ANY UTILITY'S UNDERGROUND FACILITY
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES WITHIN THE ALIGNMENT OF THE PROPOSED IMPROVEMENTS, AND IN THE EVENT OF SUBSTRUCTURE DAMAGE, HE SHALL BEAR THE TOTAL COST OF REPAIR OR REPLACEMENT.
- THE CONTRACTOR SHALL NOT CONDUCT ANY OPERATIONS OR PERFORM ANY WORK PERTAINING TO THE PROJECT BETWEEN 5:00 P.M. AND 7:00 A.M. ON ANY DAY NOR ON SATURDAY, SUNDAY, HOLIDAY AT ANY TIME EXCEPT AS APPROVED BY THE ENGINEER.
- TREES, FOLIAGE, SIGNS, AND OTHER IMPROVEMENTS SHALL BE PROTECTED IN PLACE AND ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND.
- THE CONTRACTOR IS ADVISED THAT ALL EXCAVATED MATERIALS SHALL BECOME HIS PROPERTY AND SHALL BE REMOVED FROM THE JOB-SITE UNLESS INSTRUCTED BY THE CITY ENGINEER TO DO OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE DURING ALL PHASES OF THE WORK TO PROVIDE FOR PUBLIC SAFETY AND CONVENIENCE. THE CONTRACTOR SHALL ESTABLISH ADEQUATE ACCESS TO DRIVEWAYS AT THE END OF EACH WORKING DAY.
- THE CONTRACTOR SHALL ADJUST ALL UTILITIES COVERS TO FINISHED GRADE.
- THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR THE COMPLETION OF THE PROPOSED IMPROVEMENTS PER THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (W.A.T.C.H.) TO THE SATISFACTION OF THE CITY ENGINEER. THE CONTRACTOR WILL NOT BE ALLOWED TO CLOSE STREETS WITHIN THE PROJECT AREA TO TRAFFIC FROM 8:00 A.M. TO 4:30 P.M., NO TWO ADJACENT STREETS SHALL BE CLOSED AT ANY ONE TIME.
- THE CONTRACTOR SHALL PROVIDE A 72-HOUR NOTIFICATION TO THE AFFECTED PROPERTIES, POLICE DEPARTMENT, AND FIRE DEPARTMENT IN THE EVENT OF A CHANGE IN STREET CLOSURE TO TRAFFIC AND/OR PUBLIC SAFETY VEHICLES, PARKING RESTRICTIONS, AND ON EACH MONDAY MORNING DURING THE CONSTRUCTION PERIOD.
- AS REQUIRED BY THE CITY ENGINEER, THE CONTRACTOR SHALL FURNISH AND OPERATE A SELF-LOADING MOTOR SWEEPER WITH SPRAY NOZZLES AT LEAST TWICE EACH WORKING DAY TO KEEP PAVED AREAS ACCEPTABLY CLEAN WHEREVER CONSTRUCTION, INCLUDING RESTORATION, IS INCOMPLETE.
- ALL PORTLAND CEMENT CONCRETE (P.C.C.) AND ASPHALTIC CONCRETE (A.C.) SHALL BE REMOVED TO A SAWCUT.

NPDES NOTES:

- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.



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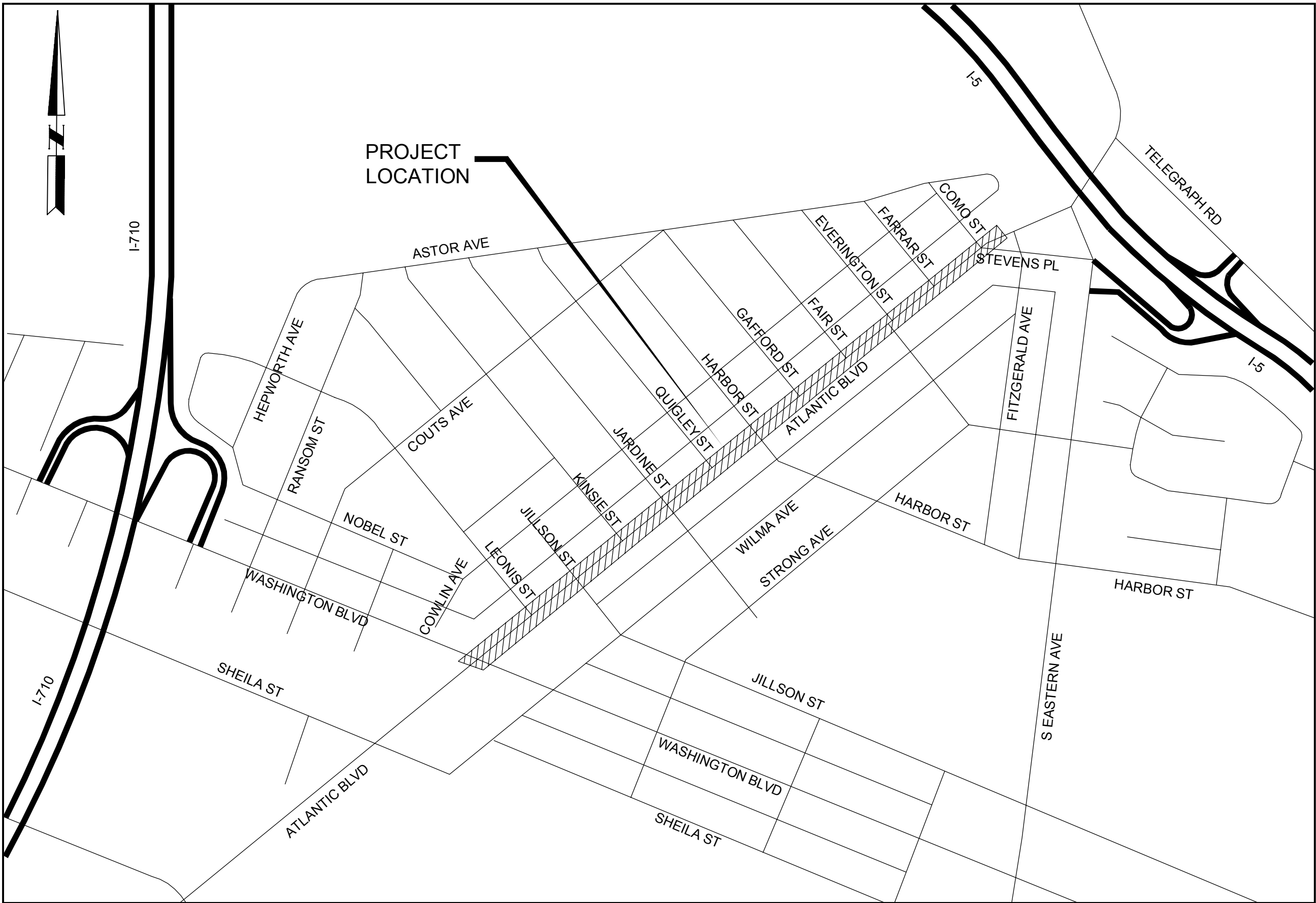
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CITY OF COMMERCE

COMMUNITY DEVELOPMENT DEPARTMENT

PUBLIC WORKS DIVISION

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS



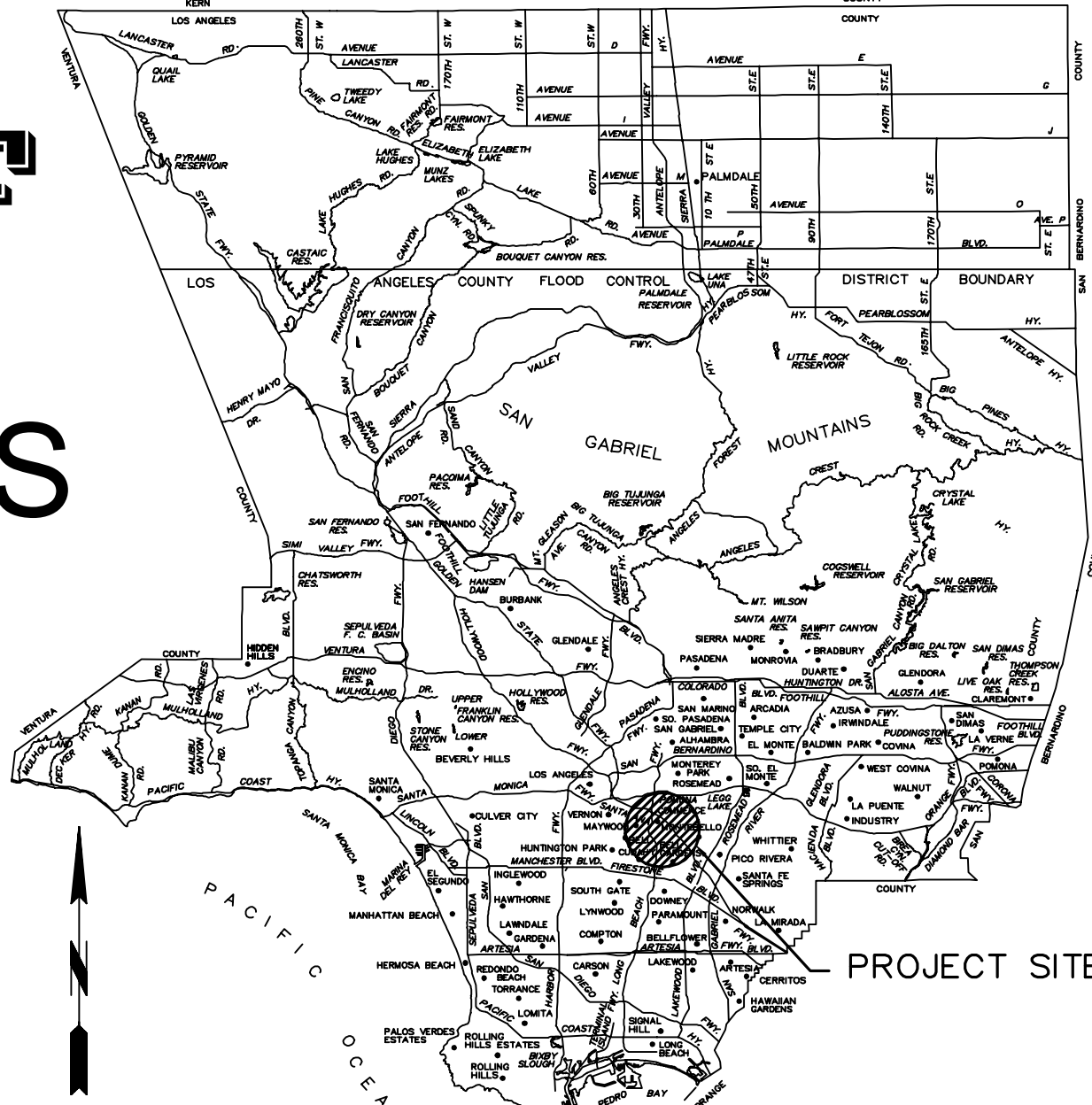
VICINITY MAP
NOT TO SCALE

GENERAL SIGNING, STRIPING AND MARKING NOTES:

- TRAFFIC STRIPING AND PAVEMENT LEGENDS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, AND ANY ADDENDUM THERETO, AND THESE PLANS AND CONTRACT SPECIAL PROVISIONS.
- ALL STRIPING SHALL BE APPLIED IN 2 COATS OF PAINT REFLECTORIZED AND PAVEMENT LEGENDS AND MARKINGS SHALL BE IN THERMOPLASTIC REFLECTORIZED.
- EXISTING PAVEMENT STRIPING ARE PAINTED AND MARKING ARE IN THERMOPLASTIC. TYPICALLY, EXISTING STRIPING AND MARKINGS TO BE REMOVED SHALL BE DONE BY WET SANDBLASTING OR OTHER APPROVED METHOD APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE CITY FOR INSPECTION 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. IF CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON PLANS, THE CITY ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIARIZED WITH THE JOB SITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN OR NOT SHOWN.

TRAFFIC CONTROL GENERAL NOTES:

- ALL TRAFFIC CONTROL WORK FOR CONSTRUCTION SHALL CONFORM TO PART 6- TEMPORARY TRAFFIC CONTROL OF THE CA-MUTCD, ADDENDUMS, LATEST EDITIONS, AND ALL O.S.H.A. REQUIREMENTS.
- THE CONTRACTOR SHALL HAVE ALL TRAFFIC CONTROL SIGNS, DELINEATORS, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL SIGNS, DELINEATORS, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC WHILE WORKING IN THE STREET.
- ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED BY THE CITY INSPECTOR/REPRESENTATIVES TO ASSURE PUBLIC SAFETY AT ALL TIMES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL UTILIZE A FLAGMAN DURING CONSTRUCTION WORK AS DEEMED NECESSARY BY THE AGENCY REPRESENTATIVE.
- ARROW BOARDS SHALL BE USED ON ANY LANE CLOSURE ON ARTERIAL STREETS.
- STRIPING SHALL BE CAT TRACKED AND APPROVED BY THE AGENCY REPRESENTATIVE PRIOR TO FINAL INSTALLATION.
- MAINTAIN AT LEAST ONE TRAFFIC LANE ON BOTH DIRECTIONS AT ALL TIMES.
- ALL TRAFFIC LANES MUST BE OPEN ON WEEKENDS AND HOLIDAYS.
- ANY DEVIATION TO THE TRAFFIC LANE REQUIREMENTS SHALL REQUIRE THE CITY ENGINEER'S APPROVAL. A MINIMUM 24 HOURS ADVANCE NOTICE IS REQUIRED.



LOCATION MAP

INDEX TO PROJECT DRAWINGS

SHEET NO	DRAWING NO	DESCRIPTION
1	T-1	TITLE SHEET
2	T-2	CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS
3	X-1	TYPICAL SECTIONS
4	X-2	TYPICAL SECTIONS
5	X-3	TYPICAL SECTIONS
6	DM-1	DEMOLITION PLAN FROM WASHINGTON BLVD TO STA 21+00
7	DM-2	DEMOLITION PLAN FROM STA 21+00 TO STA 31+50
8	DM-3	DEMOLITION PLAN FROM STA 31+50 TO COMO ST
9	P-1	STREET IMPROVEMENT PLAN FROM WASHINGTON BLVD TO STA 21+00
10	P-2	STREET IMPROVEMENT PLAN FROM STA 21+00 TO STA 31+50
11	P-3	STREET IMPROVEMENT PLAN FROM STA 31+50 TO COMO ST
12	CD-1	CONSTRUCTION DETAILS 1
13	CD-2	CONSTRUCTION DETAILS 2
14	CD-3	CONSTRUCTION DETAILS 3
15	CD-4	CONSTRUCTION DETAILS 4
16	TR-1	STREET SIGNAL PLAN
17	SL-1	STREET LIGHTING PLAN (STA 12+00 - 30+07.50)
18	SL-2	STREET LIGHTING PLAN (30+07.50 - 42+00)
19	SL-3	STREET LIGHTING PLAN FOUNDATION DETAIL
20	PD-1	SIGNING AND STRIPING PLAN FROM WASHINGTON BLVD TO STA 21+00
21	PD-2	SIGNING AND STRIPING PLAN FROM STA 21+00 TO STA 31+50
22	PD-3	SIGNING AND STRIPING PLAN FROM STA 31+50 TO COMO ST
23	SC-1	STAGE CONSTRUCTION PHASE 1
24	SC-2	STAGE CONSTRUCTION PHASE 1
25	SC-3	STAGE CONSTRUCTION PHASE 1
26	SC-4	STAGE CONSTRUCTION PHASE 2
27	SC-5	STAGE CONSTRUCTION PHASE 2
28	SC-6	STAGE CONSTRUCTION PHASE 2
29	SC-7	STAGE CONSTRUCTION PHASE 3
30	SC-8	STAGE CONSTRUCTION PHASE 3
31	SC-9	STAGE CONSTRUCTION PHASE 3
32	U-1	COMPOSITE UTILITY PLAN FROM WASHINGTON BLVD TO STA 30+00
33	U-2	COMPOSITE UTILITY PLAN FROM STA 30+00 TO COMO ST
34	L-01	LANDSCAPE TITLE SHEET
35	L-02	PLANTING PLAN - WASHINGTON BLVD. TO JARDINE ST.
36	L-03	PLANTING PLAN - JARDINE ST. TO FAIR ST. C.L.
37	L-04	PLANTING PLAN - FAIR ST. C.L. TO END AT COMO ST.
38	L-05	IRRIGATION PLAN - WASHINGTON BLVD. TO JARDINE ST.
39	L-06	IRRIGATION PLAN - JARDINE ST. TO FAIR ST. C.L.
40	L-07	IRRIGATION PLAN - FAIR ST. C.L. TO END AT COMO ST.
41	L-08	LIGHTING PLAN - WASHINGTON BLVD. TO JARDINE ST.
42	L-09	LIGHTING PLAN - JARDINE ST. TO FAIR ST. C.L.
43	L-10	LIGHTING PLAN - FAIR ST. C.L. TO END AT COMO ST.

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

TITLE SHEET

SHEET 1 OF 43 SHEETS

DRWG NO.

T-1

NO.	REVISIONS	REVISED BY	APPROVED BY	DATE



PREPARED BY:

SHEILA AMPARO, R.C.E. C78003

8/14/2018
DATE

ELECTRONICALLY APPROVED BY:

PUBLIC WORKS & DEV. SERVICES DIRECTOR

DATE

ELECTRONICALLY CHECKED BY:

TITLE

DATE

DEMOLITION NOTES:

P	PROTECT IN PLACE (ITEM)
1	SAWCUT
2	REMOVE EXISTING CURB AND GUTTER
3	REMOVE EXISTING CURB RAMP
4	REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND GRIND EXISTING PCC SECTION
5	RELOCATE EXISTING (ITEM)
6	SEE STREET LIGHTING PLANS
7	REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE
8	REMOVE PCC SIDEWALK
9	NOT USED
10	ADJUST TO GRADE
11	REMOVE PCC CROSS GUTTER

CONSTRUCTION NOTES:

20	CONSTRUCT 7" HMA OVER 9" CAB (CLASS II)
21	CONSTRUCT 4" MIN. HMA OVER GRINDED PCC PAVEMENT
22	CONSTRUCT CURB PER SPPWC STD DWG NO. 120-2, TYPE A1-8(200) (MODIFIED). SEE CONSTRUCTION DETAIL 21 ON CD-3 FOR CURB DETAIL
23	CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE A TYPE 3 (MODIFIED)
24	CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE B TYPE 2 (MODIFIED)
25	CONSTRUCT CURB AND GUTTER PER SPPWC STD DWG NO. 120-2, TYPE A3-8(200)
26	INSTALL BUS SHELTER
27	CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE D TYPE 2 (MODIFIED)
28	SEE STREET LIGHTING PLANS
29	INSTALL WHITE SOLID LANE LINE WITH PAVEMENT MARKERS
30	INSTALL TRAFFIC STRIPE PER DETAIL 8 OF SPPWC STD PLAN NO. 170
31	INSTALL CROSSWALK PER SPPWC STD PLAN NO. 174
32	INSTALL SOLID WHITE LINE
33	INSTALL YIELD LINE PER CALTRANS STD PLAN A24E
34	INSTALL PAVEMENT MARKING PER SPPWC STD PLAN NO. 171
35	INSTALL 12" WIDE WHITE LIMIT LINE (STOP LINE) PER CALTRANS STD PLAN A24E
36	INSTALL PAVEMENT MARKING TYPE II ARROW PER SPPWC STD PLAN NO. 171
37	INSTALL TRAFFIC SIGN AS SHOWN ON PLAN
38	INSTALL MONUMENT SIGN (OBELISK PER APPENDIX A OF THESE PLANS)
39	INSTALL ASPHALT RUBBER AND AGGREGATE MEMBRANE
40	CONSTRUCT 1-FOOT CONCRETE PAVEMENT (MATCH EXISTING DEPTH)
41	INSTALL 3/8" MINIMUM ARAM FABRIC FROM EDGE OF GUTTER TO MEDIAN CURB, UNLESS NOTED OTHERWISE
42	SEE TRAFFIC SIGNAL PLANS
43	REMOVE AND RECONSTRUCT PORTION OF PCC CROSS GUTTER
44	INSTALL RETAINING CURB
45	INSTALL ADA COMPLIANT HANDRAIL
46	INSTALL TRUNCATED DOMES
47	INSTALL MTK FABRIC LONGITUDINALLY BETWEEN THE PCC PAVEMENT EDGE AND AC/AB PAVEMENT SECTION

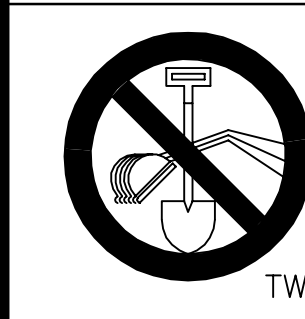
ABBREVIATIONS:

AB	AGGREGATE BASE
ABAND	ABANDON
AC	ASPHALT CONCRETE
ARHM	ASPHALT RUBBER HOT MIX
ASPH	ASPHALT
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BEG	BEGIN
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BM	BENCH MARK
CAB	CRUSHED AGGREGATE BASE
C&G	CURB AND GUTTER
CB	CATCH BASIN
CF	CURB FACE, CUBIC FOOT OR CUBIC FEET
CL	CENTER LINE
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUATION OR CONTENT
CY	CUBIC YARDS
D	DRAIN
DET	DETAIL
DEP	DEPRESSED
DI	DRAIN INLET OR DUCTILE IRON
DIAM	DIAMETER
DIM	DIMENSION
DWG	DRAWING
E	EAST
(E)	EXISTING
EA	EACH
EC	END OF CURVE
ECR	END OF CURB RETURN
EL/ELEV	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
EP	EDGE OF PAVEMENT
EVC	END VERTICAL CURVE
EX	EXISTING
FH	FIRE HYDRANT
FL	FLOW LINE
FT	FOOT OR FEET
FS	FINISHED SURFACE
G	GAS
GB	GRADE BREAK
GR	GRADE
GV	GAS VALVE
H, HGT	HEIGHT
HORIZ	HORIZONTAL
HMA	HOT MIX ASPHALT
HWY	HIGHWAY
IB	IRRIGATION BOX
ID	INSIDE DIAMETER
IN	INCH OR INCHES
IRR	IRRIGATION
ICV	IRRIGATION CONTROL VALVE
L	LENGTH OR LENGTH OF CURVE
LF	LINEAR FEET
LG	LIP OF GUTTER
LP	LOW POINT
LT	LIGHT, LEFT
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NO.	NUMBER
NPS	NEWSPAPER STAND
N.T.S	NOT TO SCALE
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND, ORIGINAL GRADE
OH	OVERHEAD
PB	PULL BOX
PCC	POINT OF COMPOUND CURVE OR PORTLAND CEMENT CONCRETE
PD	PARKWAY DRAIN
PED	PEDESTRIAN
PI	POINT OF INTERSECTION
PKWY	PARKWAY
POC	POINT ON CURVE OR POINT OF CONNECTION
PP	POWER POLE
PR	PROPOSED
PT	POINT OF TANGENCY
PVMT	PAVEMENT
R	RADIUS
RC	RETAINING CURB
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REV	REVISION
RT	RIGHT
R/W, ROW	RIGHT OF WAY
RW	RECLAIMED WATER
S	SOUTH OR SLOPE OR SEWER
SS	SANITARY SEWER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDV	STORM DRAIN VAULT
SL	STREET LIGHT (ELECTRICAL)
SF	SQUARE FEET
SHLD	SHOULDER
SHT	SHEET

SIG	SIGNAL
SMH	SIGNAL MANHOLE
SPEC	SPECIFICATION
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SSMH	SANITARY SEWER MANHOLE
ST	STREET OR STEAM
STA	STATION
STD	STANDARD
SW	SIDEWALK
T	TANGENT
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TS	TRAFFIC SIGNAL
TELE	TELEPHONE
TYP	TYPICAL
UG	UNDERGROUND
UNK	UNKNOWN
V	VALVE OR VENT
W	WATER OR WEST OR WIDTH
WM	WATER METER
WV	WATER VALVE
W/	WITH
#	NUMBER OR POUND
&	AND
ℙ	PROPERTY LINE

LEGEND:

	RIGHT OF WAY LINE
	REMOVE EXISTING CURB AND GUTTER
	SAWCUT
	EXISTING ELECTRICAL (OVERHEAD)
	EXISTING NATURAL GAS
	EXISTING JOINT OVERHEAD LINE
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING TELEPHONE (UNDERGROUND)
	EXISTING COMMUNICATION
	EXISTING ROADSIDE SIGN (ONE POST)
	EXISTING STREET LIGHT POLE
	EXISTING TRAFFIC SIGNAL POLE
	EXISTING POWER POLE
	EXISTING FIRE HYDRANT
	EXISTING GUY WIRE
	EXISTING MANHOLE
	EXISTING UTILITY BOX
	EXISTING TREE
	NEW ROADSIDE SIGN (ONE POST)
	STREET LIGHT POLE W/BANNER



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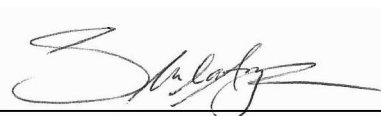
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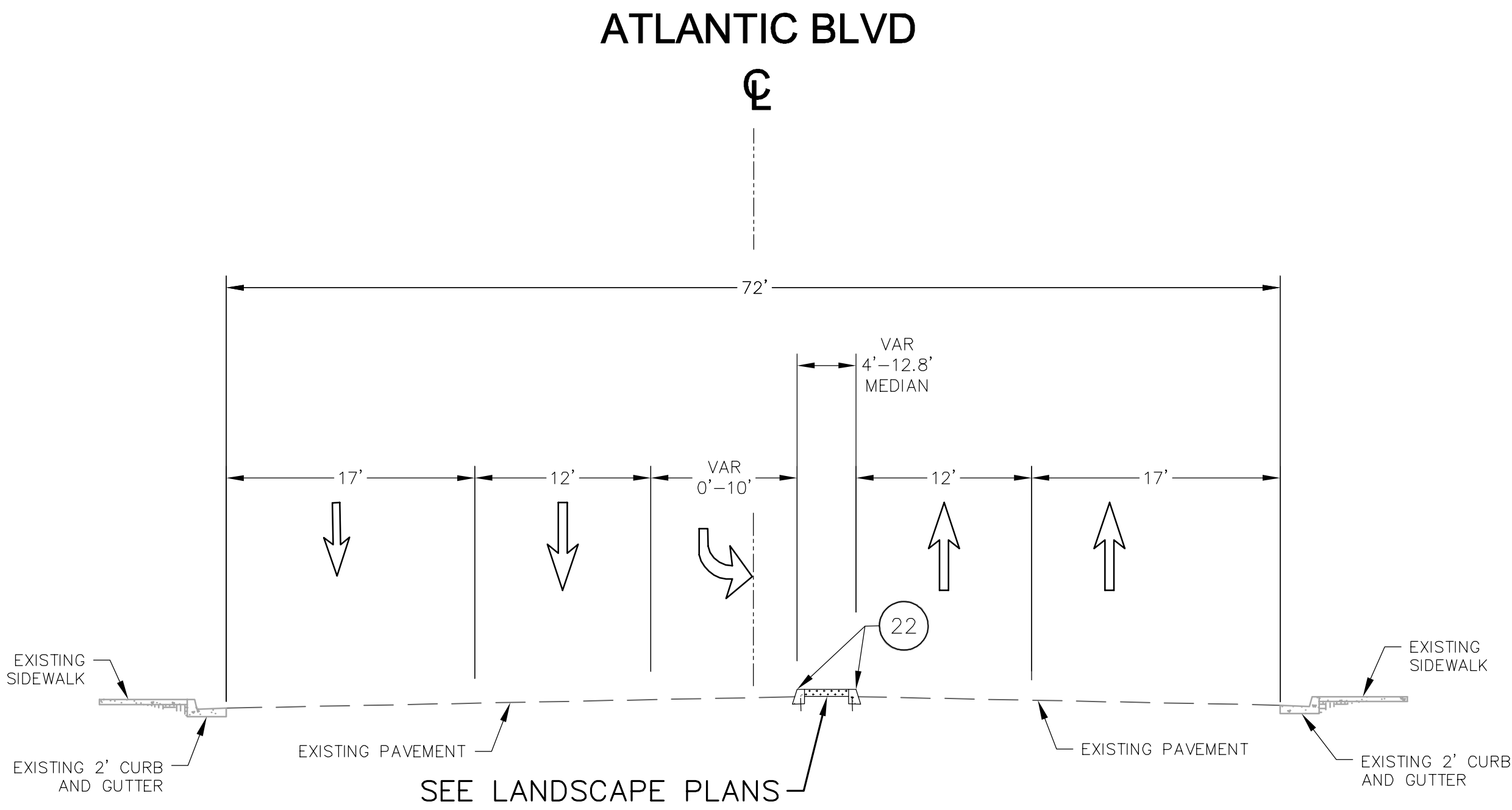
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	8/14/2018 DATE
SHEILA AMPARO, R.C.E. C78003	

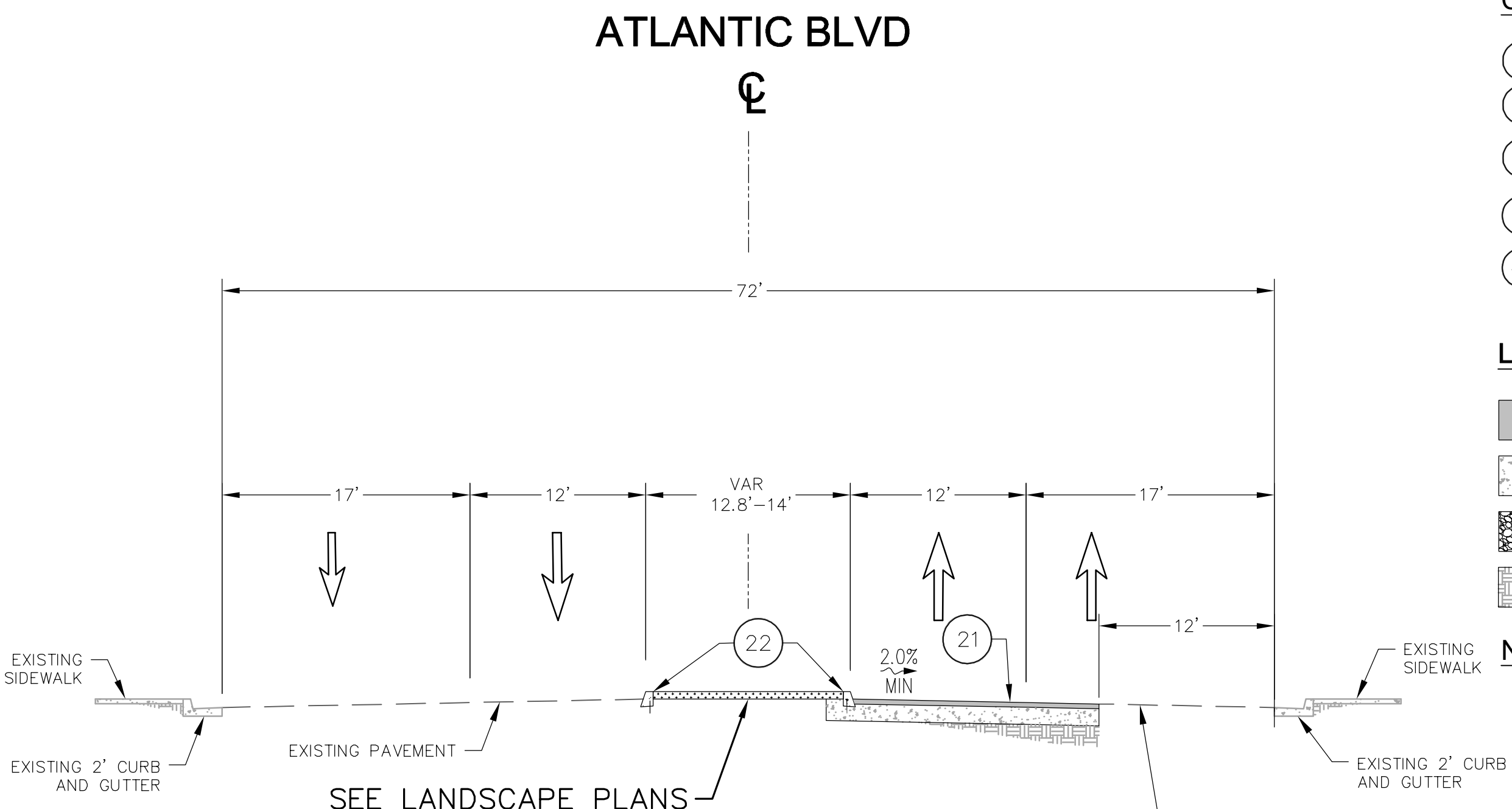
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ELECTRONICALLY CHECKED BY:	
TITLE	DATE

CITY OF COMMERCE PUBLIC WORKS AND ENGINEERING DEPARTMENT	
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
CONSTRUCTION NOTES, LEGEND, AND ABBREVIATIONS	
SHEET 2 OF 43 SHEETS	DRWG NO. T-2



TYPICAL SECTION - WB LEFT TURN POCKET
STA 12+82.56 TO STA 13+85.00

SCALE: NTS



MEDIAN TYPICAL SECTION
STA 13+85.00 TO STA 14+46.75

SCALE: NTS

CONSTRUCTION NOTES

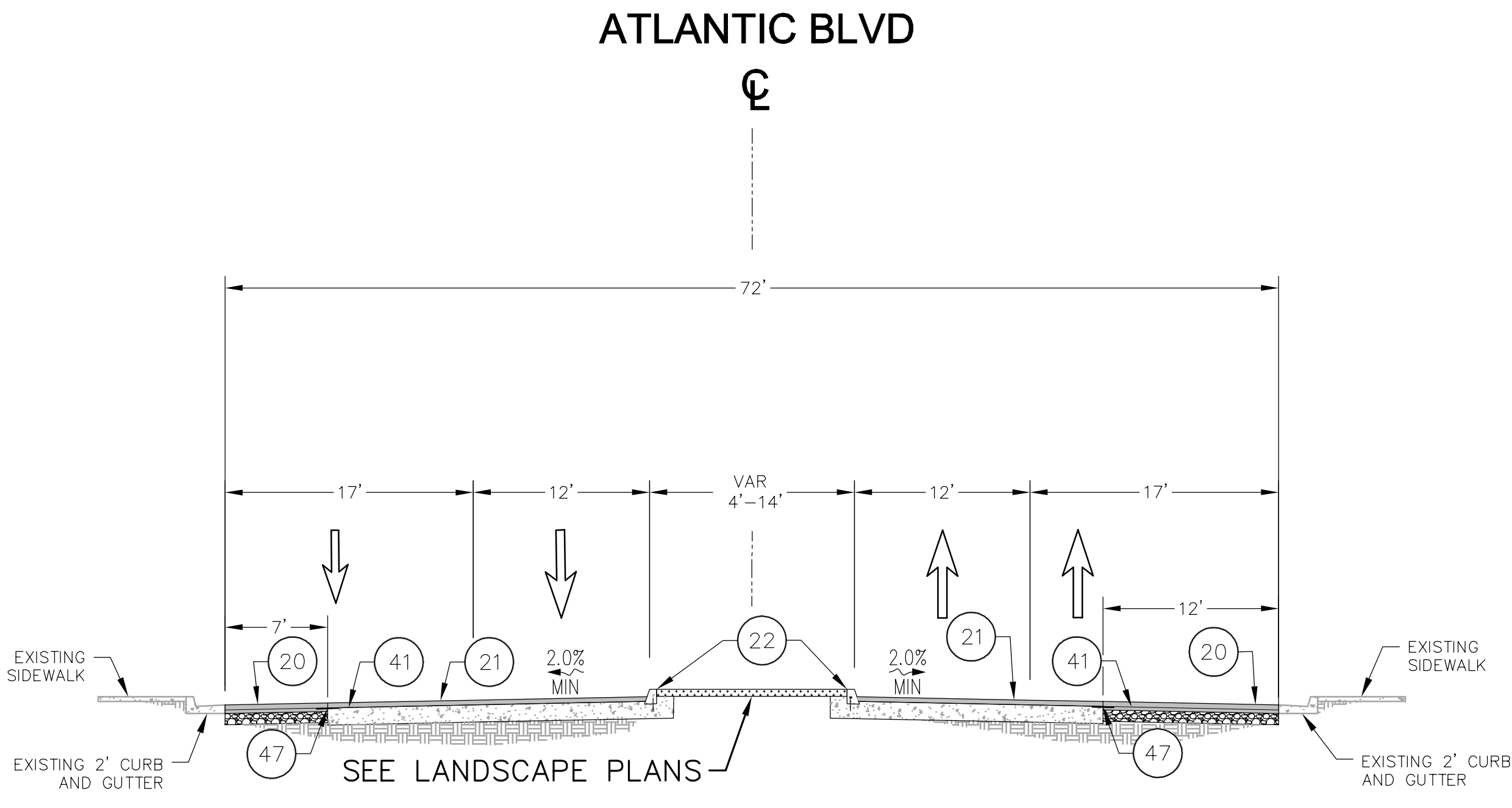
- (20) CONSTRUCT 7.0" HMA OVER 9" CAB (CLASS II)
- (21) CONSTRUCT 4.0" MIN HMA OVER GRIDED PCC PAVEMENT
- (22) CONSTRUCT CURB PER SPPWC STD DWG NO. 120-2, TYPE A1-8(200) (MODIFIED). SEE CONSTRUCTION DETAIL 21 ON CD-3 FOR CURB DETAIL
- (41) INSTALL 3/8" MINIMUM ARAM FABRIC FROM EDGE OF GUTTER TO MEDIAN CURB, UNLESS NOTED OTHERWISE
- (47) INSTALL MTK FABRIC LONGITUDINALLY BETWEEN THE PCC PAVEMENT EDGE AND AC/AB PAVEMENT SECTION

LEGEND:

- PROPOSED HOT MIX ASPHALT CONCRETE
- EXISTING PCC
- PROPOSED COARSE AGGREGATE BASE (CLASS II)
- EXISTING NATIVE SOIL

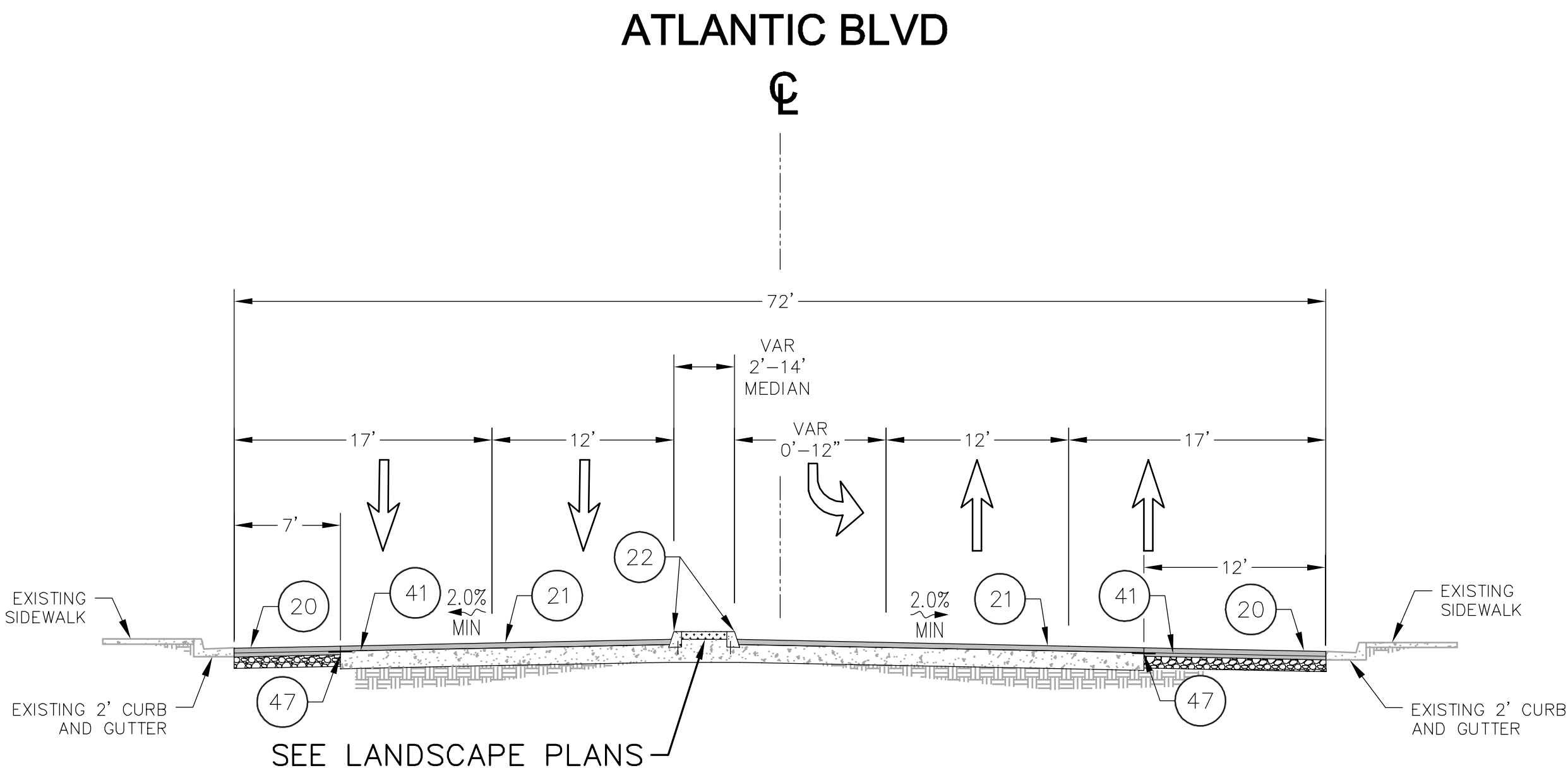
NOTES:

1. CONTRACTOR SHALL MATCH EXISTING EDGE OF GUTTER
2. CONTRACTOR SHALL POSITIVELY LOCATE ALL EXISTING SUBSTRUCTURE FACILITIES AND PROTECT IN PLACE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING FACILITIES AND REPLACE/REPAIR AT NO ADDITIONAL COST TO THE CITY.
4. CONTRACTOR SHALL PROVIDE SURVEY STAKING PRIOR TO POURING CONCRETE OR PAVEMENT TO THE CITY FOR REVIEW AND APPROVAL. ANY CONCRETE OR PAVEMENT POURED WITHOUT CITY APPROVAL, SHALL BE AT THE EXPENSE OF THE CONTRACTOR IF REMOVAL IS REQUIRED.



TYPICAL SECTION
STA 14+46.75 TO STA 14+72.57
STA 19+13.97 TO STA 21+29.25
STA 24+52.13 TO STA 25+19.21
STA 29+73.11 TO STA 34+27.21
STA 37+52.99 TO STA 39+62.40

SCALE: NTS



TYPICAL SECTION - WB EXTENDED LEFT TURN POCKET
STA 14+72.57 TO STA 15+12.27
STA 25+19.21 TO STA 25+59.53

SCALE: NTS



Underground Service Alert
Call: TOLL FREE
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TWO WORKING DAYS BEFORE YOU DIG

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PREPARED BY:	
SHEILA AMPARO, R.C.E. C78003	8/14/2018 DATE

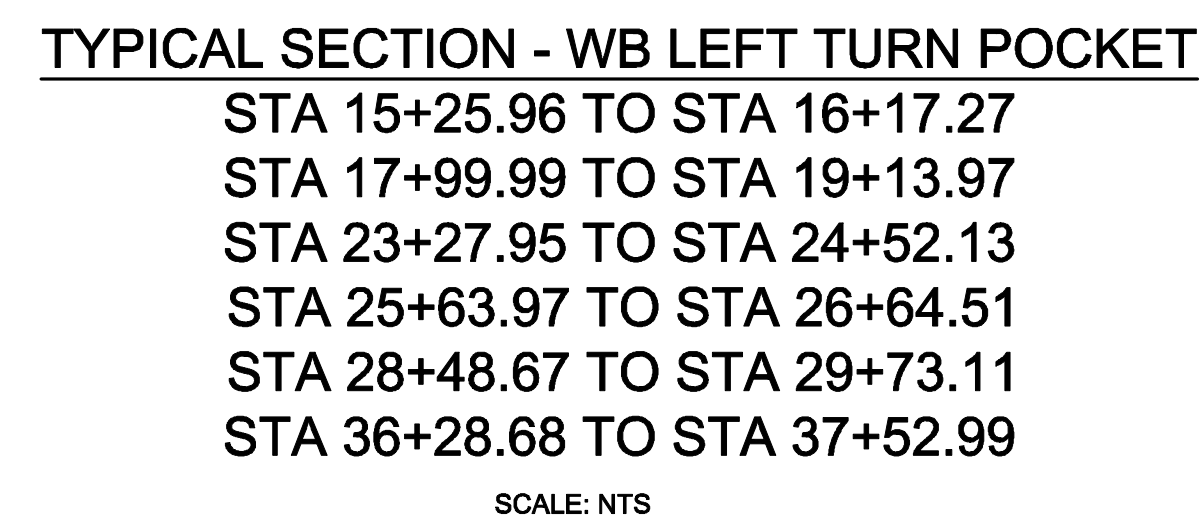
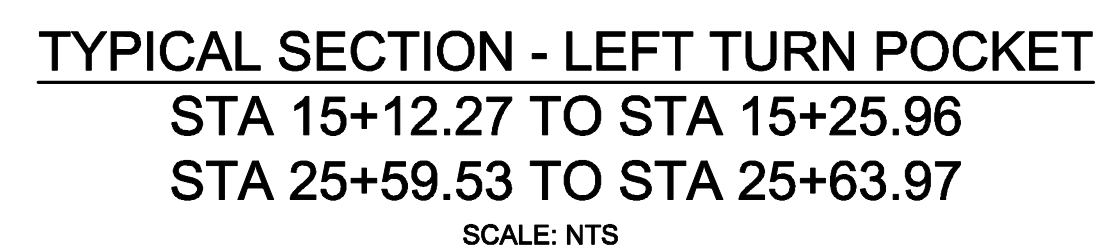
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TITLE	DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

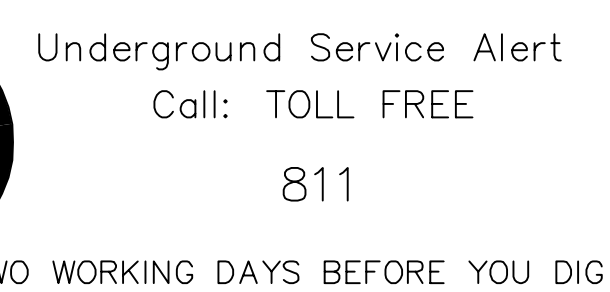
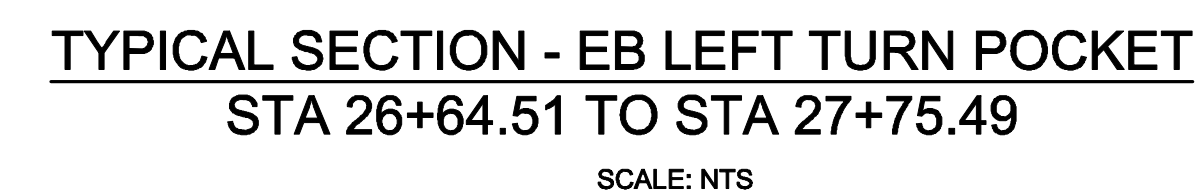
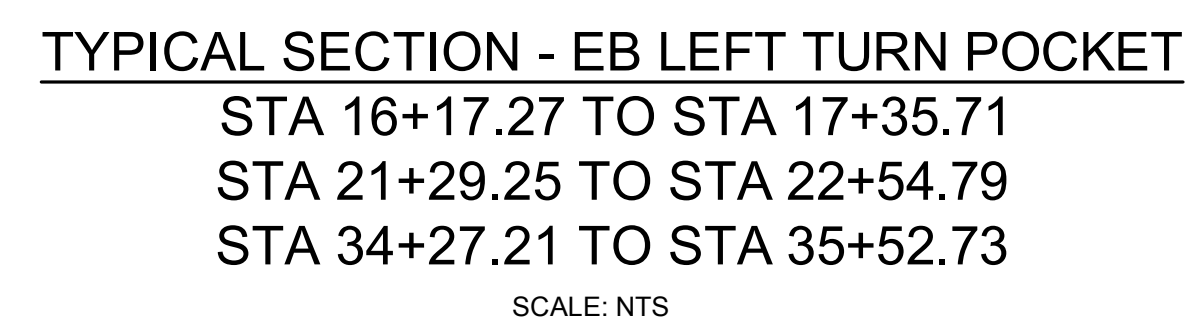
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

TYPICAL SECTIONS

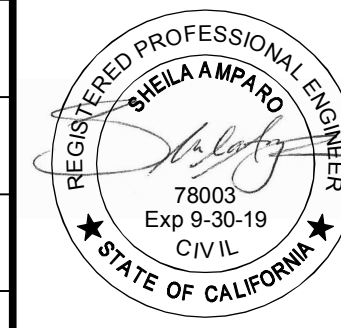
SHEET 4 OF 43 SHEETS DRWG NO. X-1



1. CONTRACTOR SHALL MATCH EXISTING EDGE OF GUTTER
2. CONTRACTOR SHALL POSITIVELY LOCATE ALL EXISTING SUBSTRUCTURE FACILITIES AND PROTECT IN PLACE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING FACILITIES AND REPLACE/REPAIR AT NO ADDITIONAL COST TO THE CITY.
4. CONTRACTOR SHALL PROVIDE SURVEY STAKING PRIOR TO POURING CONCRETE OR PAVEMENT TO THE CITY FOR REVIEW AND APPROVAL. ANY CONCRETE OR PAVEMENT POURED WITHOUT CITY APPROVAL, SHALL BE AT THE EXPENSE OF THE CONTRACTOR IF REMOVAL IS REQUIRED.



NO.	REVISIONS	REVISED BY	APPROVED BY	DATE




SHEILA AMPARO, R.C.E. C78003

8/14/2018
DATE

PUBLIC WORKS & DEV. SERVICES DIRECTOR _____ DATE _____

ELECTRONICALLY CHECKED BY:

TITLE _____ DATE _____

SHEET 3 OF 43 SHEETS	DRWG NO.	X-2
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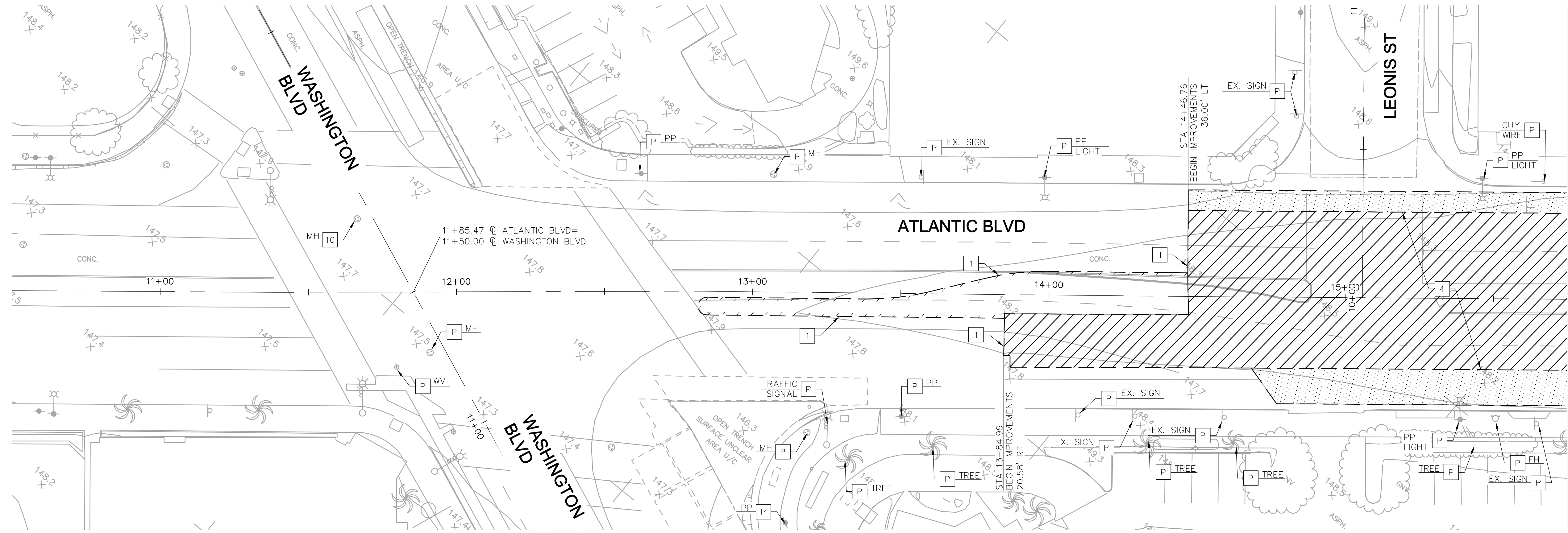
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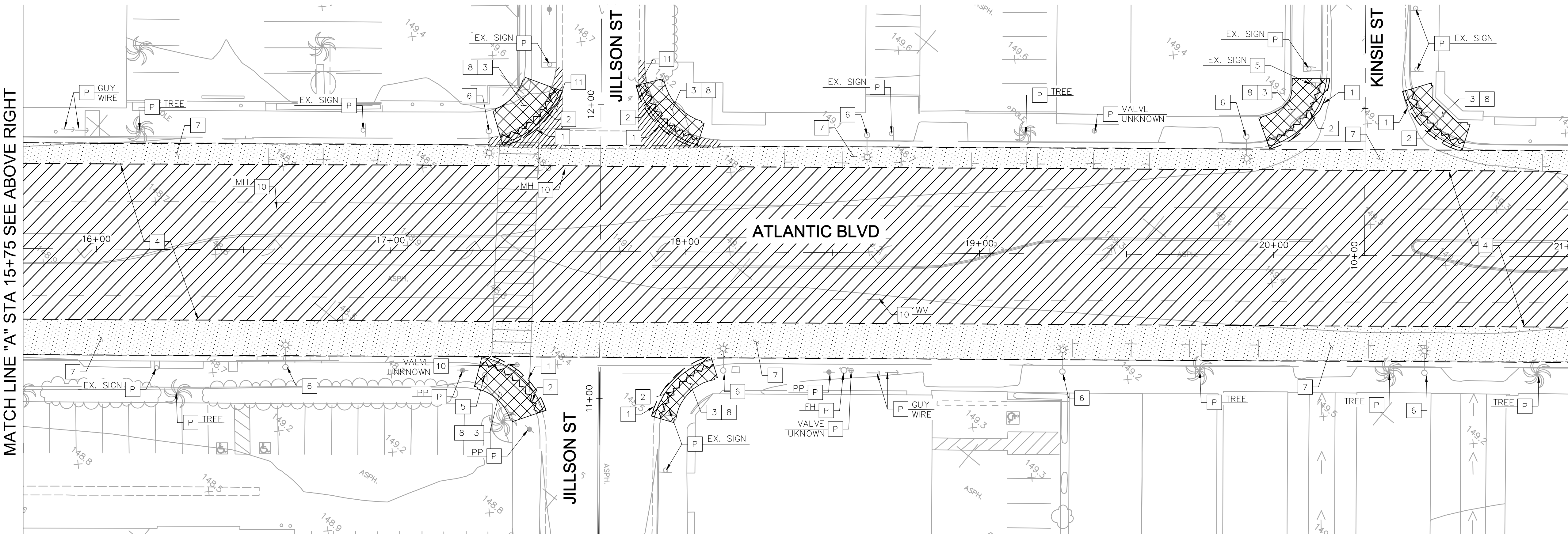
K-3



- DEMOLITION NOTES:**
- P PROTECT IN PLACE (ITEM)
 - 1 SAWCUT
 - 2 REMOVE EXISTING CURB AND GUTTER
 - 3 REMOVE EXISTING CURB RAMP
 - 4 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND GRIND EXISTING PCC SECTION
 - 5 RELOCATE EXISTING (ITEM)
 - 6 SEE STREET LIGHTING PLANS
 - 7 REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE
 - 8 REMOVE PCC SIDEWALK
 - 10 ADJUST TO GRADE
 - 11 REMOVE PCC CROSS GUTTER


- LEGEND:**
- RIGHT OF WAY LINE
 - ~~~~~ REMOVE EXISTING CURB AND GUTTER
 - SAWCUT
 - [Cross-hatch] REMOVE CONCRETE
 - [Diagonal lines] REMOVE AC PAVEMENT AND GRIND PORTION OF PCC PAVEMENT
 - [Dotted] REMOVE AC PAVEMENT AND AGGREGATE BASE
 - [Horizontal lines] REMOVE PCC CROSS GUTTER

- NOTES:**
- CONTRACTOR TO REMOVE PCC SLAB WITHIN THE LANDSCAPE MEDIAN. CONTRACTOR TO GRIND PORTION OF THE PCC AND PROTECT IN PLACE THE REMAINING PCC PAVEMENT. SEE LANDSCAPING PLANS AND CONSTRUCTION DETAIL 20 ON SHEET CD-3 ALONG LANDSCAPED MEDIAN AND PROPOSED ROADBED.

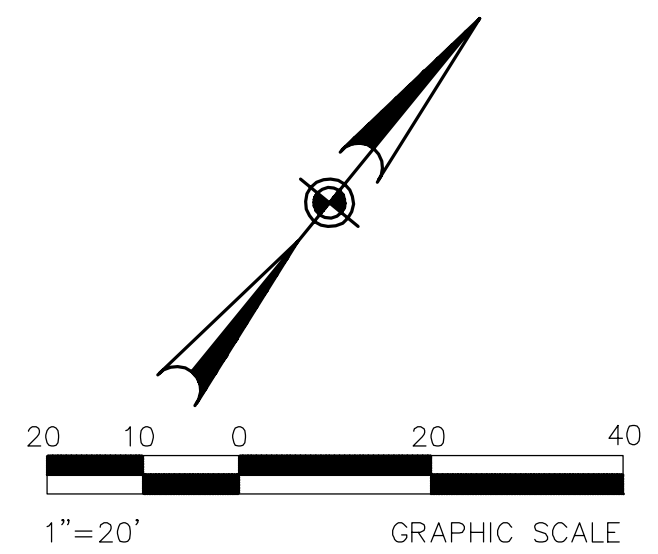


MATCH LINE "A" STA 15+75 SEE ABOVE RIGHT

MATCH LINE "B" STA 21+00 SEE SHEET DM-2



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SHEILA AMPARO, R.C.E. C78003
8/14/2018
DATE

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DATE

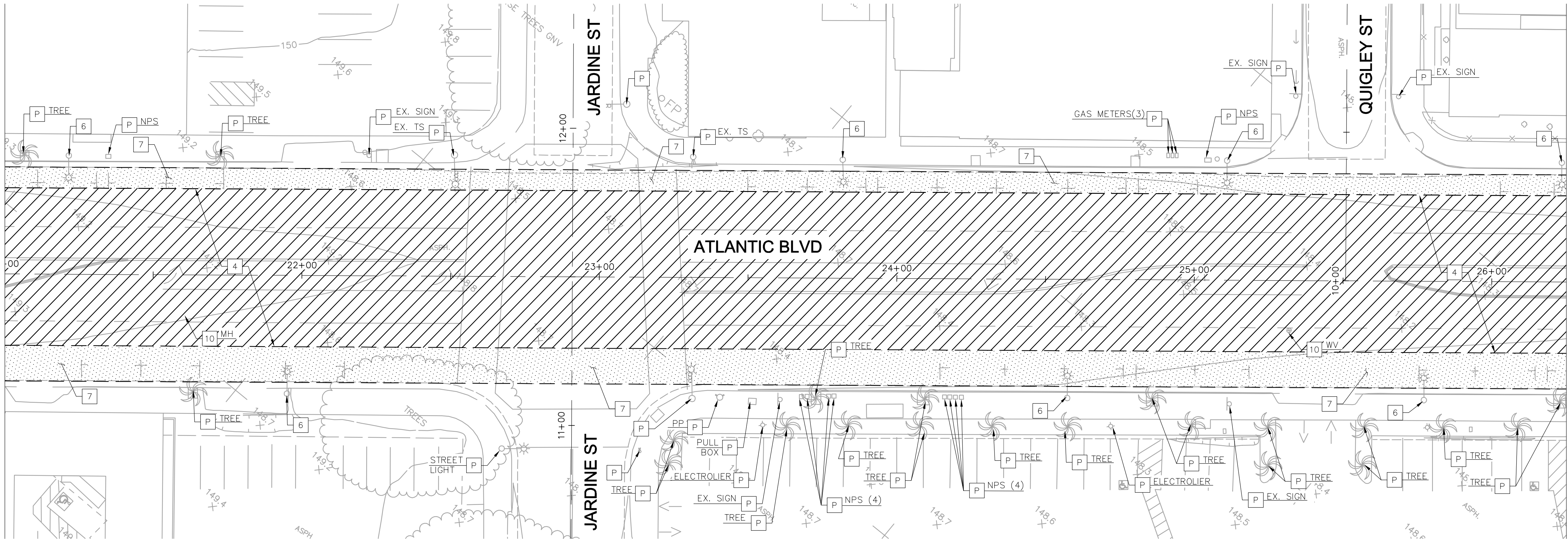
CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

DEMOLITION PLAN
FROM WASHINGTON BLVD TO STA 21+00

SHEET 6 OF 43 SHEETS DRWG NO. DM-1

MATCH LINE "B" STA 21+00 SEE SHEET DM-1



MATCH LINE "C" STA 26+25 SEE BELOW LEFT

DEMOLITION NOTES:

- P PROTECT IN PLACE (ITEM)
- 1 SAWCUT
- 2 REMOVE EXISTING CURB AND GUTTER
- 3 REMOVE EXISTING CURB RAMP
- 4 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND GRIND EXISTING PCC SECTION
- 5 RELOCATE EXISTING (ITEM)
- 6 SEE STREET LIGHTING PLANS
- 7 REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE
- 8 REMOVE PCC SIDEWALK
- 10 ADJUST TO GRADE
- 11 REMOVE PCC CROSS GUTTER

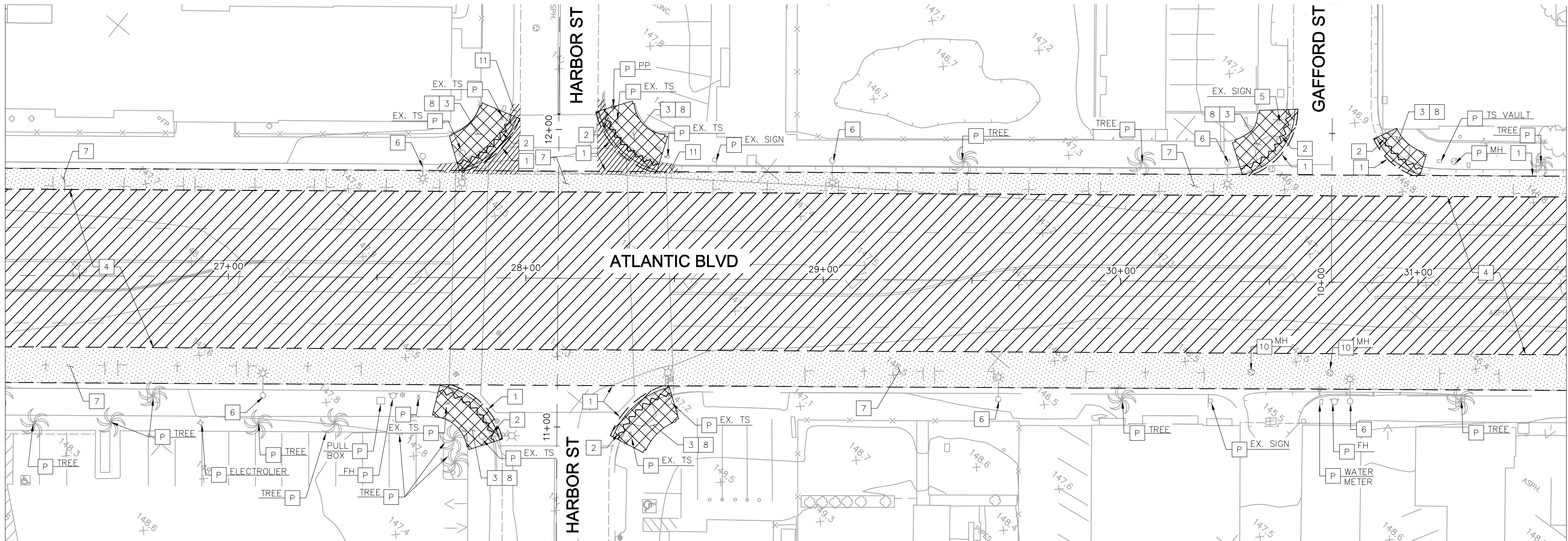
LEGEND:

- RIGHT OF WAY LINE
- ~~~~~ REMOVE EXISTING CURB AND GUTTER
- SAWCUT
- [Cross-hatched] REMOVE CONCRETE
- [Diagonal hatching] REMOVE AC PAVEMENT AND GRIND PORTION OF PCC PAVEMENT
- [Horizontal hatching] REMOVE AC PAVEMENT AND AGGREGATE BASE
- [Horizontal hatching] REMOVE PCC CROSS GUTTER

NOTES:

- CONTRACTOR TO REMOVE PCC SLAB WITHIN THE LANDSCAPE MEDIAN. CONTRACTOR TO GRIND PORTION OF THE PCC AND PROTECT IN PLACE THE REMAINING PCC PAVEMENT. SEE LANDSCAPING PLANS AND CONSTRUCTION DETAIL 20 ON SHEET CD-3 ALONG LANDSCAPED MEDIAN AND PROPOSED ROADBED.

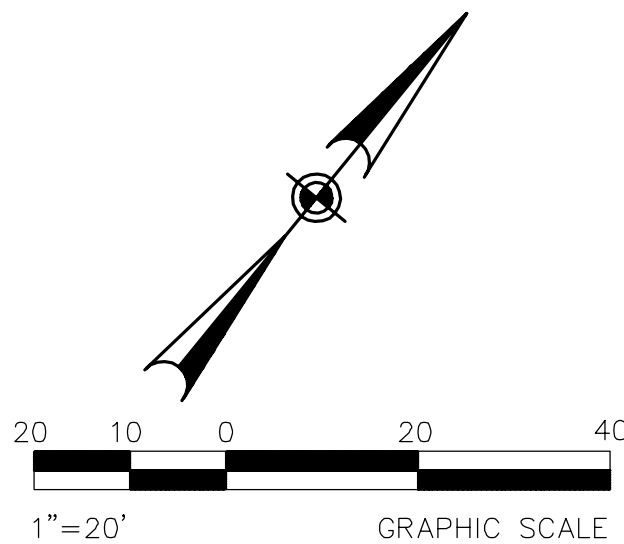
MATCH LINE "C" STA 26+25 SEE ABOVE RIGHT



MATCH LINE "D" STA 31+50 SEE SHEET DM-3



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ELECTRONICALLY CHECKED BY:

TITLE DATE

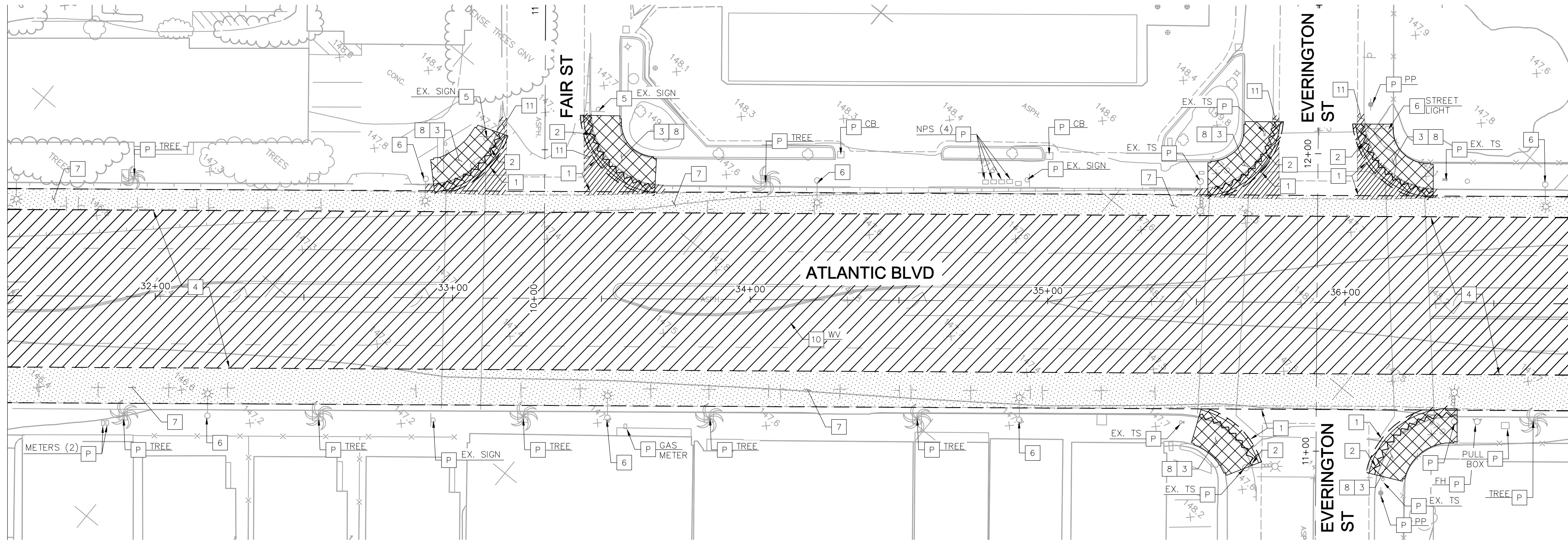
CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

DEMOLITION PLAN
FROM STA 21+00 TO STA 31+50

SHEET 7 OF 43 SHEETS DRWG NO. DM-2

MATCH LINE "D" STA 31+50 SEE SHEET DM-2



DEMOLITION NOTES:

- P PROTECT IN PLACE (ITEM)
- 1 SAWCUT
- 2 REMOVE EXISTING CURB AND GUTTER
- 3 REMOVE EXISTING CURB RAMP
- 4 REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND GRIND EXISTING PCC SECTION
- 5 RELOCATE EXISTING (ITEM)
- 6 SEE STREET LIGHTING PLANS
- 7 REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE
- 8 REMOVE PCC SIDEWALK
- 10 ADJUST TO GRADE
- 11 REMOVE PCC CROSS GUTTER

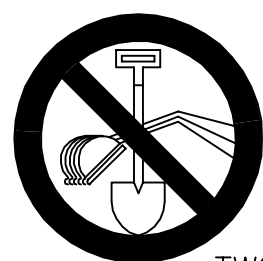
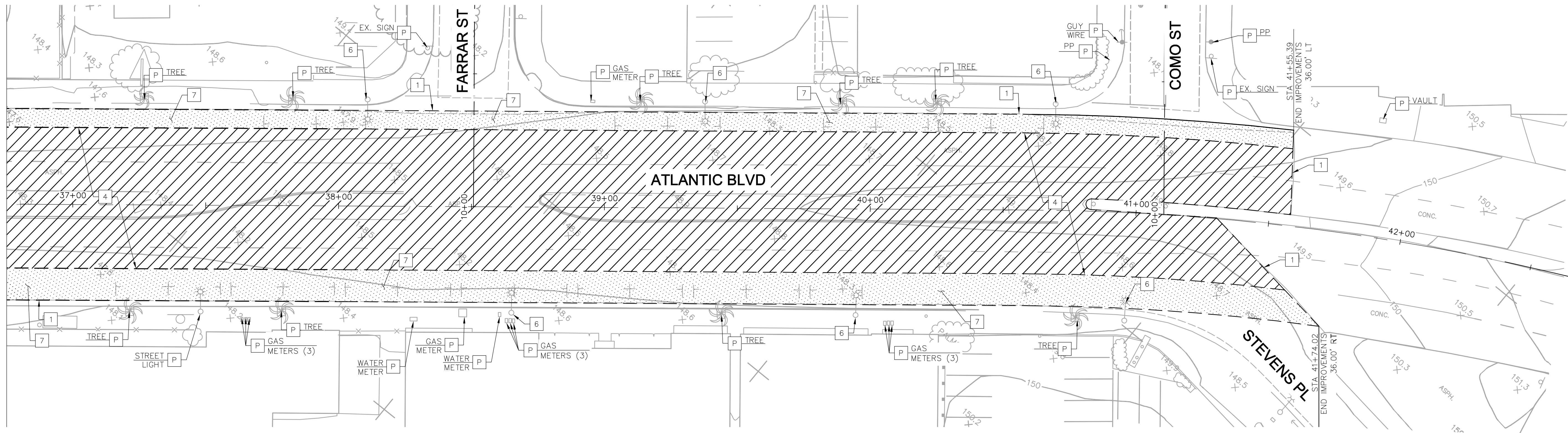
LEGEND:

- RIGHT OF WAY LINE
- REMOVE EXISTING CURB AND GUTTER
- SAWCUT
- REMOVE CONCRETE
- REMOVE AC PAVEMENT AND GRIND PORTION OF PCC PAVEMENT
- REMOVE AC PAVEMENT AND AGGREGATE BASE
- REMOVE PCC CROSS GUTTER

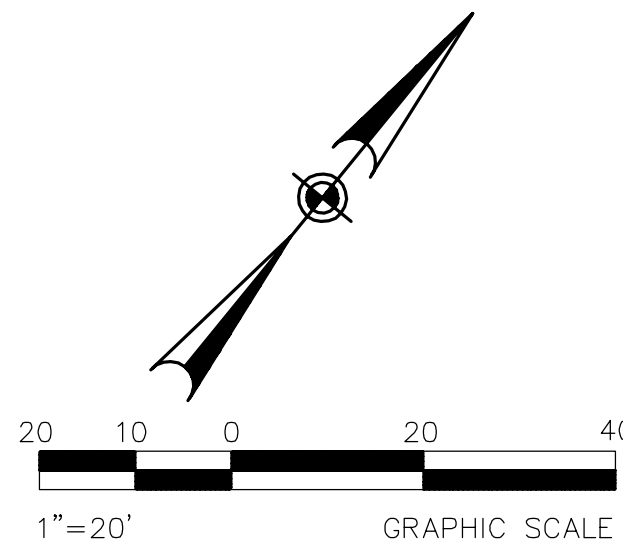
NOTES:

1. CONTRACTOR TO REMOVE PCC SLAB WITHIN THE LANDSCAPE MEDIAN, CONTRACTOR TO GRIND PORTION OF THE PCC AND PROTECT IN PLACE THE REMAINING PCC PAVEMENT. SEE LANDSCAPING PLANS AND CONSTRUCTION DETAIL 20 ON SHEET CD-3 ALONG LANDSCAPED MEDIAN AND PROPOSED ROADBED.

MATCH LINE "E" STA 36+75 SEE ABOVE RIGHT



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PREPARED BY:

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TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

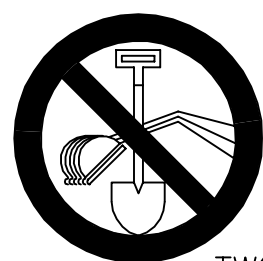
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

DEMOLITION PLAN
FROM STA 31+50 TO COMO ST

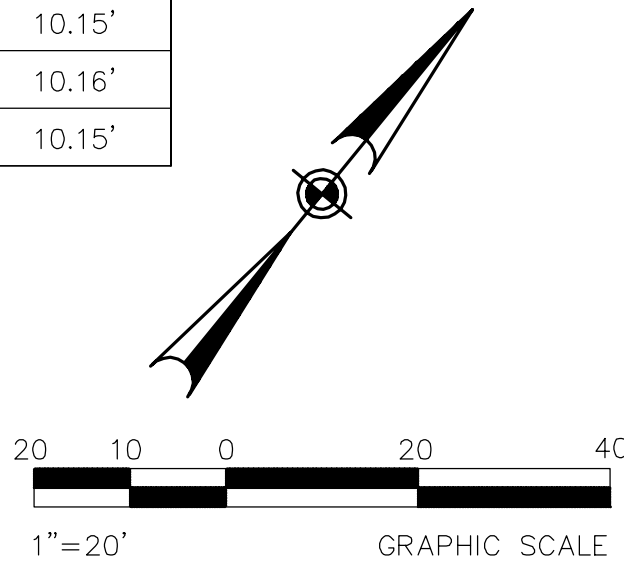
SHEET 8 OF 43 SHEETS DRWG NO. DM-3

MATCH LINE "A" STA 15+75 SEE ABOVE RIGHT

(X)	LENGTH	RADIUS	DELTA	TANGENT
1	20.21'	81.25'	14°15'00"	10.16'
2	20.20'	80.45'	14°23'21"	10.15'
3	3.14'	2.00'	90°00'00"	2.00'
4	15.71'	10.00'	90°00'08"	10.00'
5	20.30'	68.87'	16°53'12"	10.22'
6	20.28'	68.04'	17°04'37"	10.22'
7	20.21'	81.25'	14°15'00"	10.16'
8	20.20'	83.75'	13°49'21"	10.15'
9	20.21'	81.25'	14°15'00"	10.16'
10	20.20'	83.75'	13°49'21"	10.15'



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PREPARED BY:

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8/14/2018
DATE

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ELECTRONICALLY CHECKED BY:

TITLE DATE

CONSTRUCTION NOTES:

- CONSTRUCT 7" HMA OVER 9" CAB (CLASS II)
- CONSTRUCT 4" MIN. HMA OVER GRINDED PCC PAVEMENT
- CONSTRUCT CURB PER SPPWC STD DWG NO. 120-2, TYPE A1-8(200) (MODIFIED). SEE CONSTRUCTION DETAIL 21 ON CD-3 FOR CURB DETAIL
- CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE A TYPE 3
- CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE B TYPE 2
- CONSTRUCT CURB AND GUTTER PER SPPWC STD DWG NO. 120-2, TYPE A3-8(200)
- INSTALL BUS SHELTER
- CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE D TYPE 2 (MODIFIED)
- SEE STREET LIGHTING PLANS
- INSTALL MONUMENT SIGN (OBELISK PER APPENDIX A OF THESE PLANS)
- CONSTRUCT 1-FOOT CONCRETE PAVEMENT (MATCH EXISTING DEPTH)
- INSTALL 3/8" MINIMUM ARAM FABRIC FROM EDGE OF GUTTER TO MEDIAN CURB, UNLESS NOTED OTHERWISE
- REMOVE AND RECONSTRUCT PORTION OF PCC CROSS GUTTER
- INSTALL RETAINING CURB
- INSTALL ADA COMPLIANT HANDRAIL
- INSTALL TRUNCATED DOMES
- INSTALL MTK FABRIC LONGITUDINALLY BETWEEN THE PCC PAVEMENT EDGE AND AC/AB PAVEMENT SECTION

NOTES:

- CONTRACTOR SHALL MATCH EXISTING EDGE OF GUTTER
- CONTRACTOR SHALL POSITIVELY LOCATE ALL EXISTING SUBSTRUCTURE FACILITIES AND PROTECT IN PLACE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING FACILITIES AND REPLACE/REPAIR AT NO ADDITIONAL COST TO THE CITY.
- CONTRACTOR SHALL PROVIDE SURVEY STAKING PRIOR TO POURING CONCRETE OR PAVEMENT TO THE CITY FOR REVIEW AND APPROVAL. ANY CONCRETE OR PAVEMENT POURED WITHOUT CITY APPROVAL, SHALL BE AT THE EXPENSE OF THE CONTRACTOR IF REMOVAL IS REQUIRED.

LEGEND:

- RIGHT OF WAY LINE
- SAWCUT
- CONSTRUCT 4" PCC SIDEWALK/ PCC CROSS GUTTER
- CONSTRUCT 4" MIN. HMA OVER GRINDED PCC
- CONSTRUCT 7" HMA OVER 9" CAB (CLASS II)
- EXISTING ROADSIDE SIGN (ONE POST)
- EXISTING STREET LIGHT POLE
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING GUY WIRE
- EXISTING MANHOLE
- EXISTING UTILITY BOX
- EXISTING TREE
- NEW ROADSIDE SIGN (ONE POST)
- STREET LIGHT POLE W/BANNER
- TRAFFIC SIGNAL POLE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

STREET IMPROVEMENT PLAN
FROM WASHINGTON BLVD TO STA 21+00

SHEET 9 OF 43 SHEETS DRWG NO. P-1

MATCH LINE "A" STA 15+75 SEE BELOW LEFT

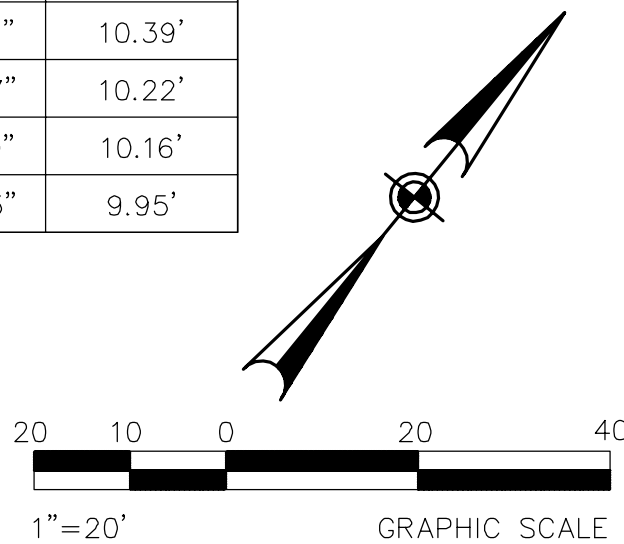
MATCH LINE "B" STA 21+00 SEE SHEET P-2

- 20) CONSTRUCT 7" HMA OVER 9" CAB (CLASS II)
- 21) CONSTRUCT 4" MIN. HMA OVER GRIINDED PCC PAVEMENT
- 22) CONSTRUCT CURB PER SPPWC STD DWG NO. 120-2, TYPE A1-8(200) (MODIFIED). SEE CONSTRUCTION DETAIL 21 ON CD-3 FOR CURB DETAIL
- 23) CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE A TYPE 3
- 24) CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE B TYPE 2
- 25) CONSTRUCT CURB AND GUTTER PER SPPWC STD DWG NO. 120-2, TYPE A3-8(200)
- 26) INSTALL BUS SHELTER
- 27) CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE D TYPE 2 (MODIFIED)
- 28) SEE STREET LIGHTING PLANS
- 41) INSTALL 3/8" MINIMUM ARAM FABRIC FROM EDGE OF GUTTER TO MEDIAN CURB, UNLESS NOTED OTHERWISE
- 43) REMOVE AND RECONSTRUCT PORTION OF PCC CROSS GUTTER
- 44) INSTALL RETAINING CURB
- 45) INSTALL INSTALL ADA COMPLIANT HANDRAIL
- 46) INSTALL TRUNCATED DOMES
- 47) INSTALL MTK FABRIC LONGITUDINALLY BETWEEN THE PCC PAVEMENT EDGE AND AC/AB PAVEMENT SECTION

1. CONTRACTOR SHALL MATCH EXISTING EDGE OF GUTTER.
2. CONTRACTOR SHALL POSITIVELY LOCATE ALL EXISTING SUBSTRUCTURE FACILITIES AND PROTECT IN PLACE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING FACILITIES AND REPLACE/REPAIR AT NO ADDITIONAL COST TO THE CITY.
4. CONTRACTOR SHALL PROVIDE SURVEY STAKING PRIOR TO POURING CONCRETE OR PAVEMENT TO BE REVIEWED FOR REVIEW AND APPROVAL. ANY CONCRETE OR PAVEMENT POURED WITHOUT CITY APPROVAL, SHALL BE AT THE EXPENSE OF THE CONTRACTOR IF REMOVAL IS REQUIRED.

	RIGHT OF WAY LINE
	SAWCUT
	CONSTRUCT 4" PCC SIDEWALK/ PCC CROSS GUTTER
	CONSTRUCT 4" MIN. HMA OVER GRINDED PCC
	CONSTRUCT 7" HMA OVER 9" CAB (CLASS II)
	EXISTING ROADSIDE SIGN (ONE POST)
	EXISTING STREET LIGHT POLE
	EXISTING TRAFFIC SIGNAL POLE
	EXISTING POWER POLE
	EXISTING FIRE HYDRANT
	EXISTING GUY WIRE
	EXISTING MANHOLE
	EXISTING UTILITY BOX
	EXISTING TREE
	NEW ROADSIDE SIGN (ONE POST)
	STREET LIGHT POLE W/BANNER
	TRAFFIC SIGNAL POLE

CURVE DATA				
X	LENGTH	RADIUS	DELTA	TANGENT
11	20.21'	81.25'	14°15'00"	10.16'
12	20.20'	83.75'	13°49'21"	10.15'
13	20.21'	81.25'	14°15'00"	10.16'
14	19.62'	84.11'	13°22'08"	9.86'
15	3.14'	2.00'	90°00'00"	2.00'
16	15.71'	10.00'	90°00'00"	10.00'
17	20.30'	68.87'	16°53'12"	10.22'
18	20.28'	68.04'	17°04'37"	10.22'
19	20.63'	68.87'	17°09'41"	10.39'
20	20.28'	68.04'	17°04'37"	10.22'
21	20.21'	81.25'	14°15'00"	10.16'
22	19.80'	83.96'	13°30'53"	9.95'



A circular professional engineer seal for the State of California. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two stars. Inside the ring, the name "SHEILA AMPARO" is printed at the top. Below the name is a handwritten signature. Under the signature, the license number "78003" and expiration date "Exp 9-30-19" are printed, followed by the word "CIVIL" at the bottom.

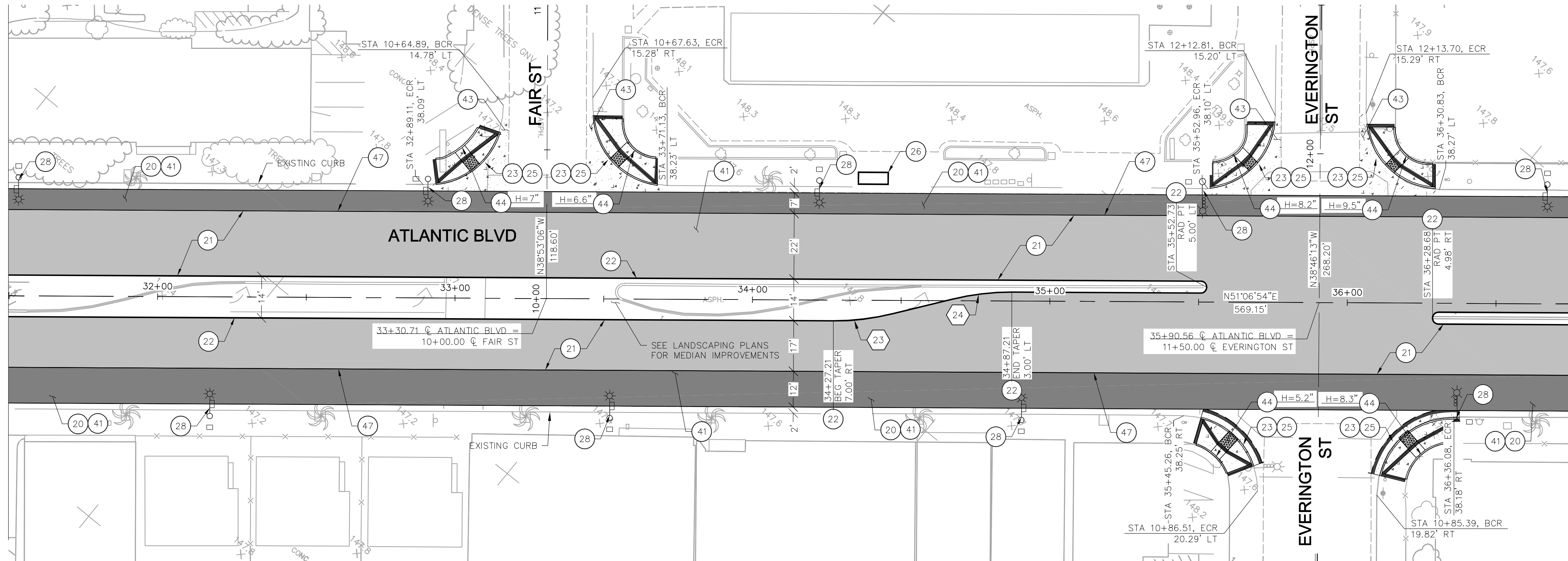

SHEILA AMPARO, R.C.E. C78003

8/14/2018
DATE

TITLE	DATE
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SHEET 10 OF 43 SHEETS DRWG NO. P-2

MATCH LINE "D" STA 31+50 SEE SHEET P-2



MATCH LINE "E" STA 36+75 SEE BELOW LEFT

CONSTRUCTION NOTES:

- CONSTRUCT 7" HMA OVER 9" CAB (CLASS II)
- CONSTRUCT 4" MIN. HMA OVER GRINDED PCC PAVEMENT
- CONSTRUCT CURB PER SPPWC STD DWG NO. 120-2, TYPE A1-8(200) (MODIFIED). SEE CONSTRUCTION DETAIL 21 ON SHEET CD-3 FOR CURB DETAIL
- CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE A TYPE 3
- CONSTRUCT CURB RAMP PER SPPWC STD DWG NO. 111-5, CASE B TYPE 2
- CONSTRUCT CURB AND GUTTER PER SPPWC STD DWG NO. 120-2, TYPE A3-8(200)
- INSTALL BUS SHELTER
- SEE STREET LIGHTING PLANS
- INSTALL MONUMENT SIGN (SEE APPENDIX A OF THESE PLANS)
- INSTALL 3/8" MINIMUM ARAM FABRIC FROM EDGE OF GUTTER TO MEDIAN CURB, UNLESS NOTED OTHERWISE
- REMOVE AND RECONSTRUCT PORTION OF PCC CROSS GUTTER
- INSTALL RETAINING CURB
- INSTALL ADA COMPLIANT HANDRAIL
- INSTALL TRUNCATED DOMES
- INSTALL MTK FABRIC LONGITUDINALLY BETWEEN THE PCC PAVEMENT EDGE AND AC/AB PAVEMENT SECTION

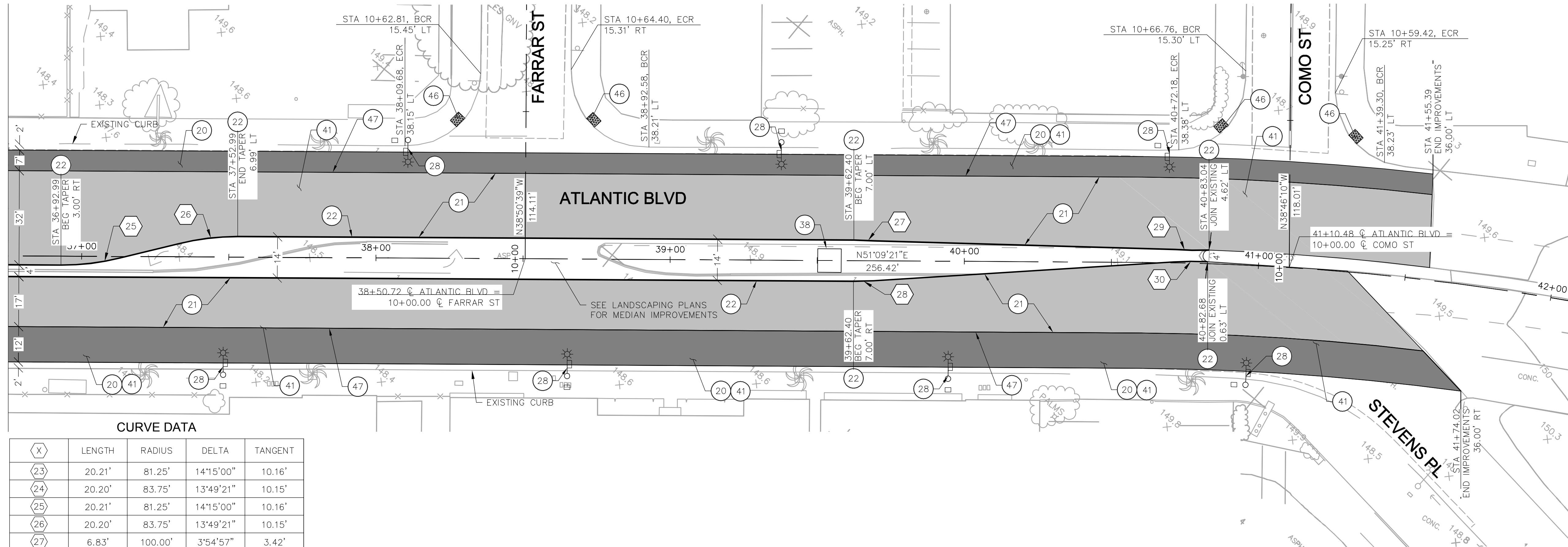
NOTES:

- CONTRACTOR SHALL MATCH EXISTING EDGE OF GUTTER
- CONTRACTOR SHALL POSITIVELY LOCATE ALL EXISTING SUBSTRUCTURE FACILITIES AND PROTECT IN PLACE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING FACILITIES AND REPLACE/REPAIR AT NO ADDITIONAL COST TO THE CITY.
- CONTRACTOR SHALL PROVIDE SURVEY STAKING PRIOR TO POURING CONCRETE OR PAVEMENT TO THE CITY FOR REVIEW AND APPROVAL. ANY CONCRETE OR PAVEMENT POURED WITHOUT CITY APPROVAL, SHALL BE AT THE EXPENSE OF THE CONTRACTOR IF REMOVAL IS REQUIRED.
- CONTRACTOR TO COORDINATE WITH LANDSCAPE ARCHITECT FOR MEDIAN IMPROVEMENTS AND MONUMENT SIGN

LEGEND:

- RIGHT OF WAY LINE
- SAWOUT
- CONSTRUCT 4" PCC SIDEWALK/ PCC CROSS GUTTER
- CONSTRUCT 4" MIN. HMA OVER GRINDED PCC
- CONSTRUCT 7" HMA OVER 9" CAB (CLASS II)
- EXISTING ROADSIDE SIGN (ONE POST)
- EXISTING STREET LIGHT POLE
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING GUY WIRE
- EXISTING MANHOLE
- EXISTING UTILITY BOX
- EXISTING TREE
- NEW ROADSIDE SIGN (ONE POST)
- STREET LIGHT POLE W/BANNER
- TRAFFIC SIGNAL POLE

MATCH LINE "E" STA 36+75 SEE ABOVE RIGHT



CURVE DATA

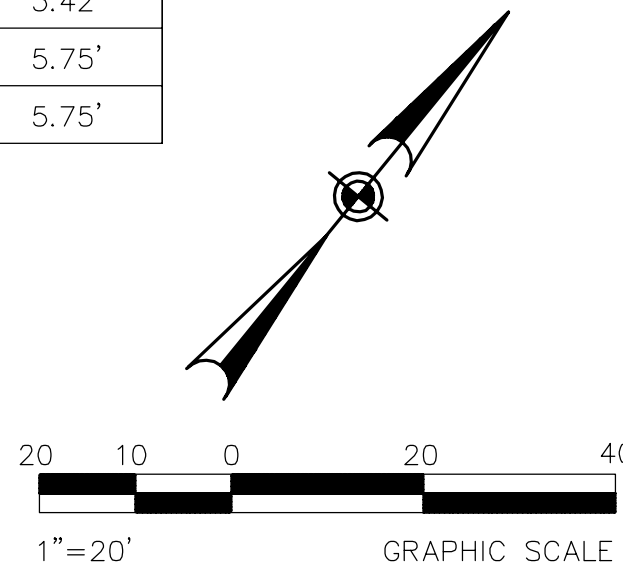
(X)	LENGTH	RADIUS	DELTA	TANGENT
(23)	20.21'	81.25'	14°15'00"	10.16'
(24)	20.20'	83.75'	13°49'21"	10.15'
(25)	20.21'	81.25'	14°15'00"	10.16'
(26)	20.20'	83.75'	13°49'21"	10.15'
(27)	6.83'	100.00'	3°54'57"	3.42'
(28)	6.83'	100.00'	3°54'57"	3.42'
(29)	11.49'	100.00'	6°34'50"	5.75'
(30)	11.49'	100.00'	6°34'50"	5.75'



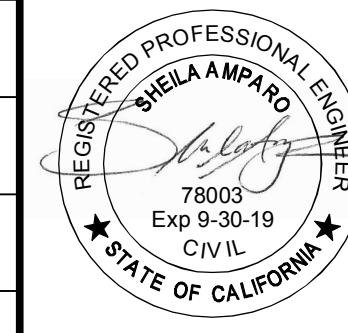
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NO.	REVISIONS	REVISED BY	APPROVED BY	DATE



PREPARED BY:

SHEILA AMPARO, R.C.E. C78003

8/14/2018
DATE

ELECTRONICALLY APPROVED BY:

PUBLIC WORKS & DEV. SERVICES DIRECTOR DATE

ELECTRONICALLY CHECKED BY:

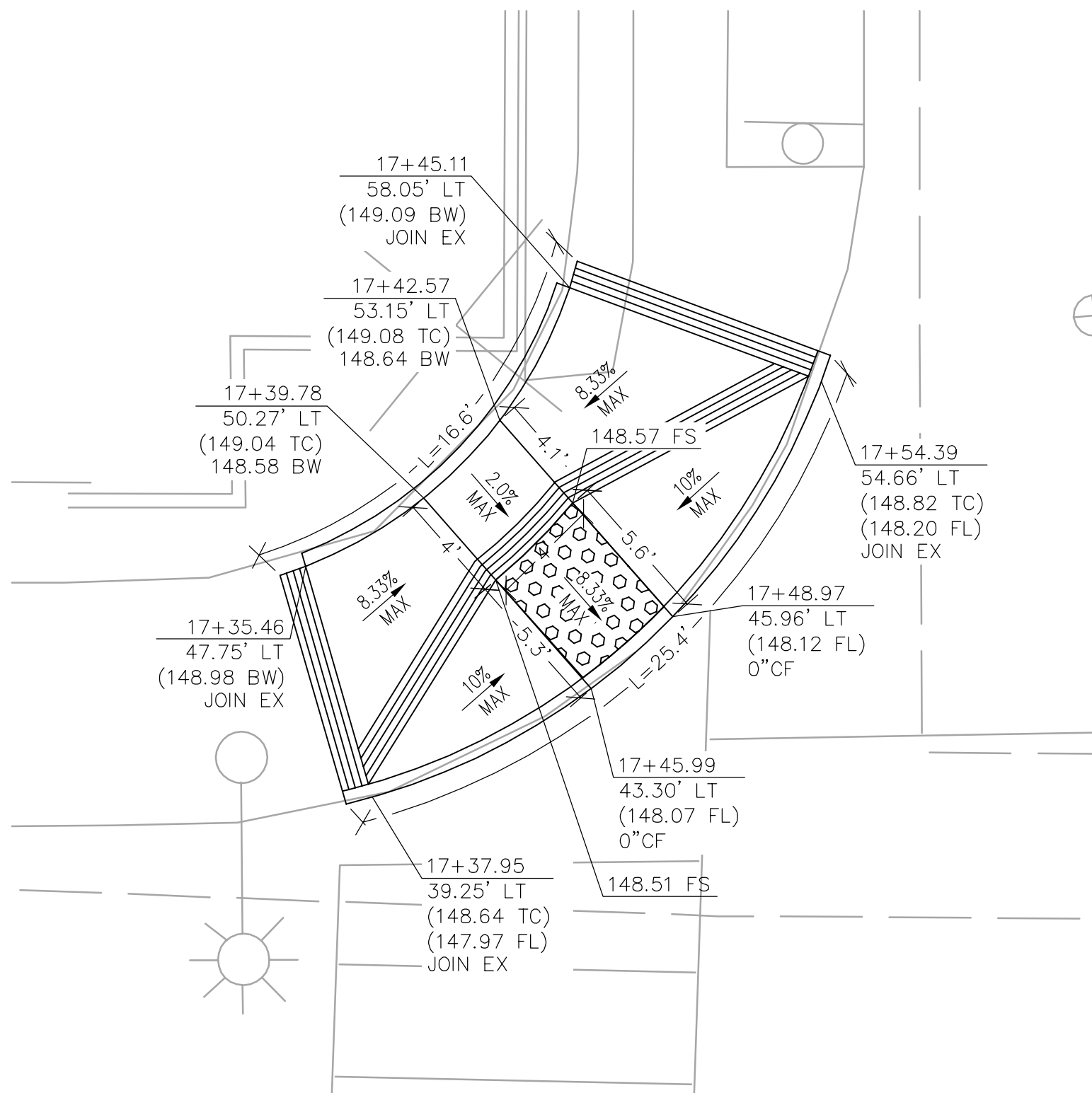
TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

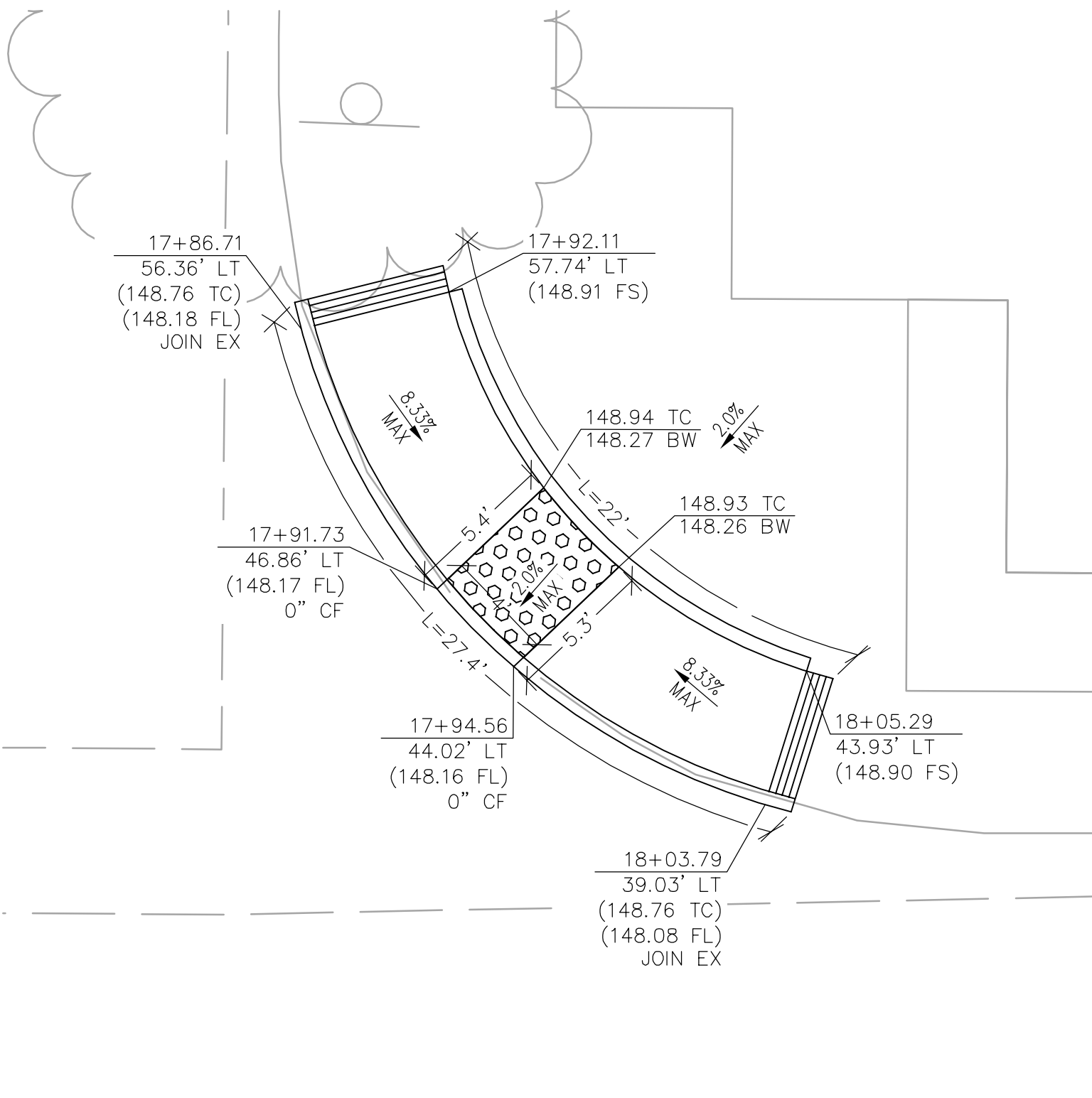
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

STREET IMPROVEMENT PLAN
FROM TO STA 31+50 TO COMO ST

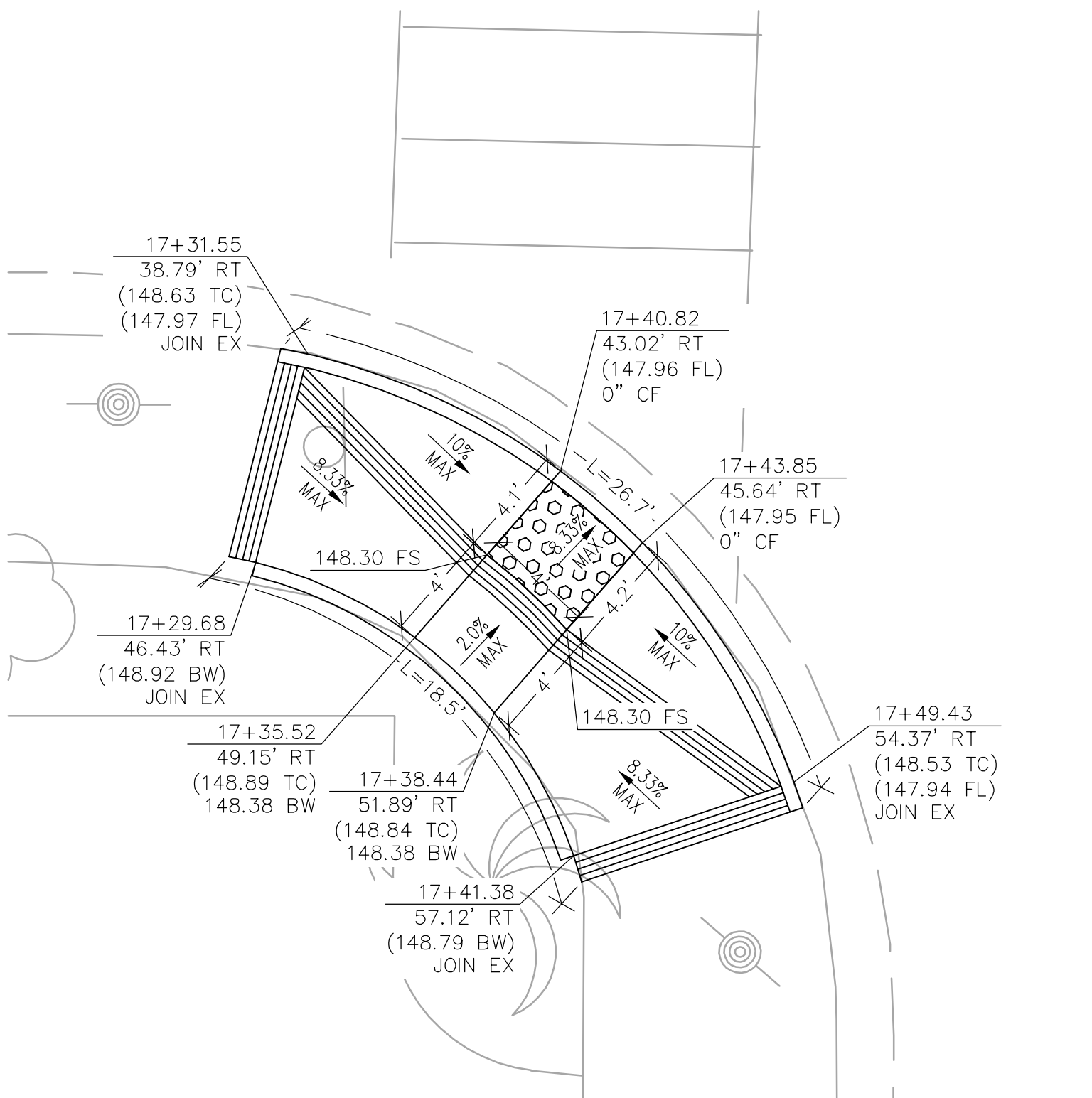
SHEET 11 OF 43 SHEETS DRWG NO. P-3



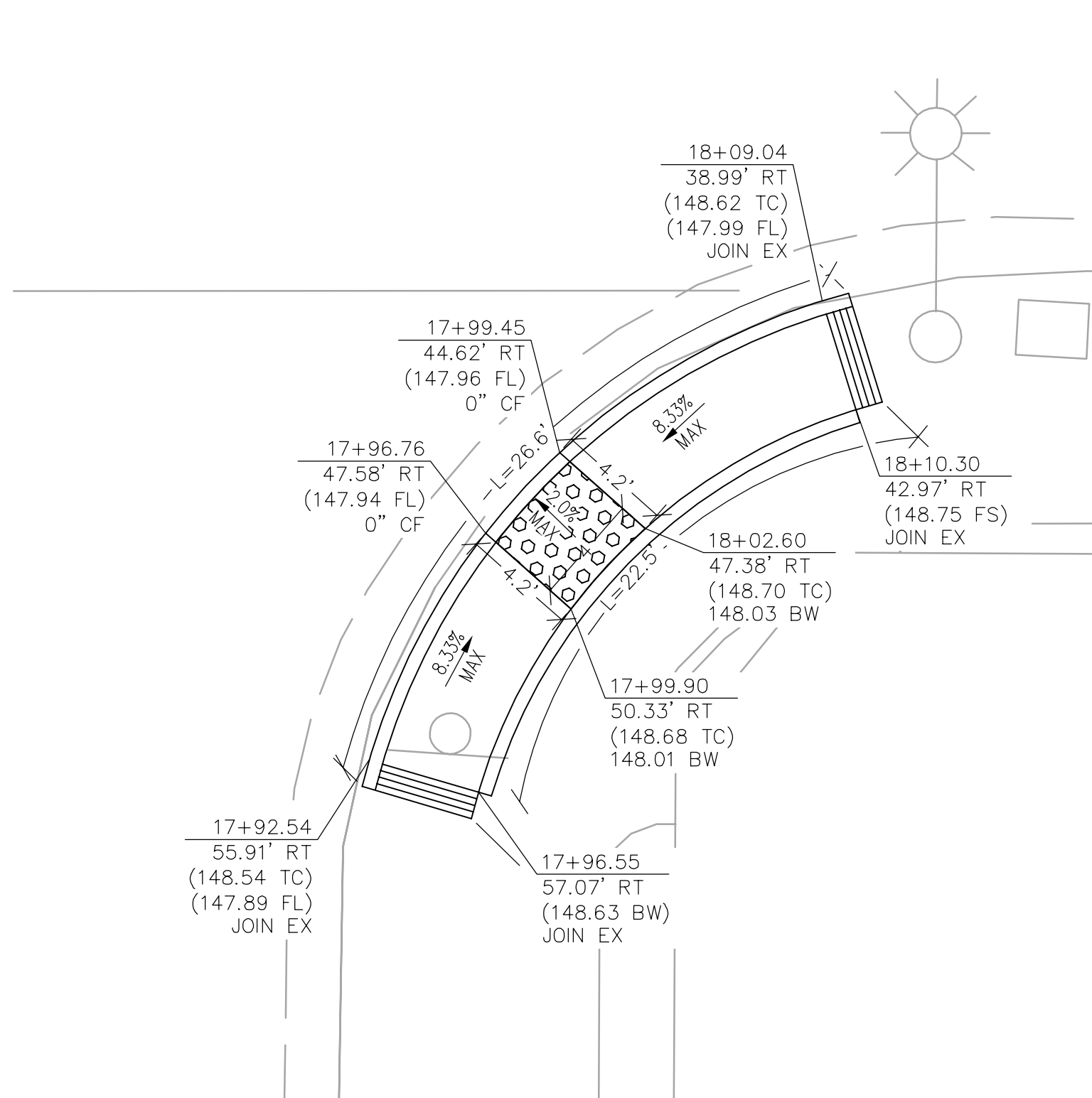
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CD-1 SOUTHWEST CURB RAMP



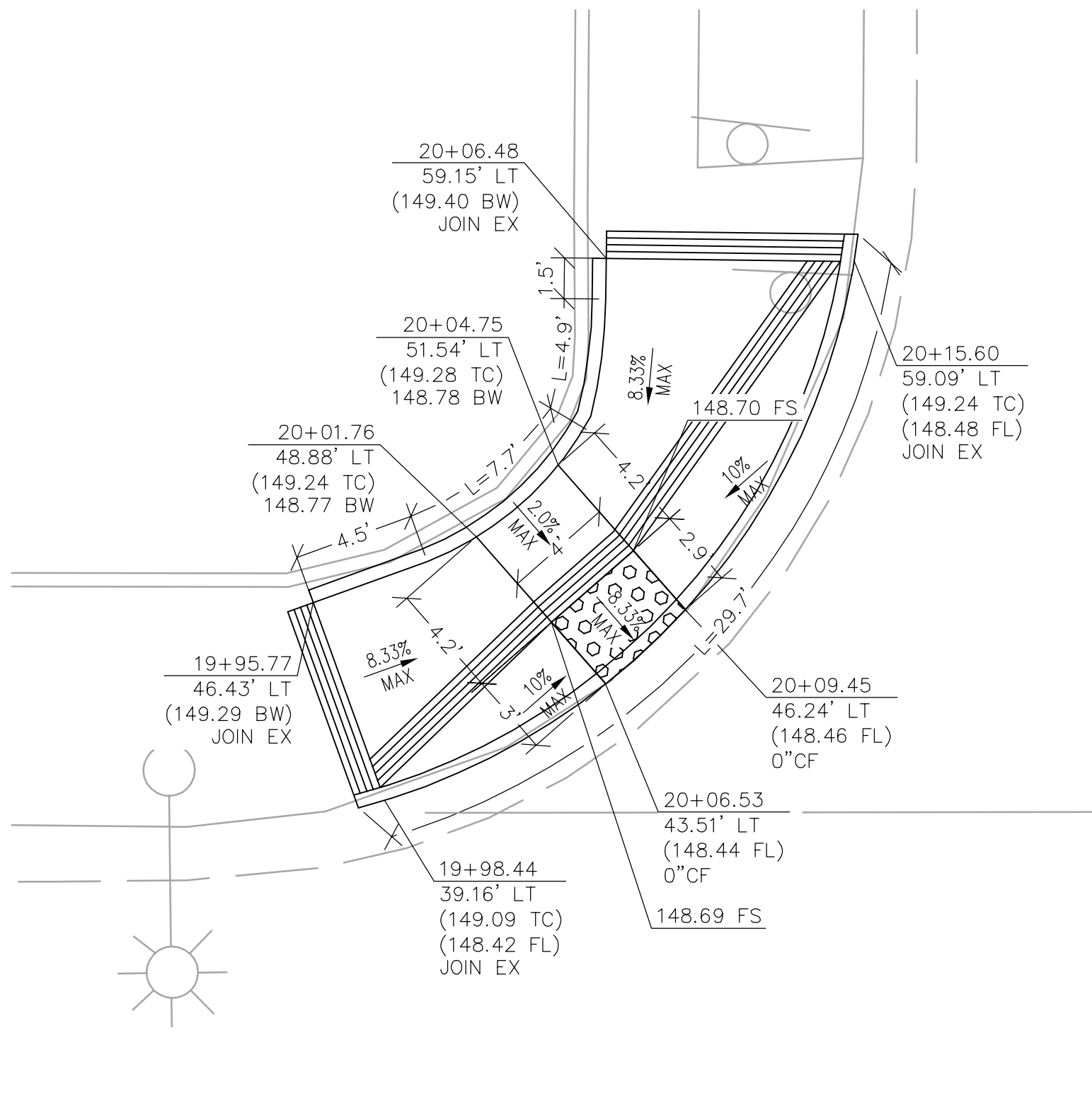
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CD-1 NORTHWEST CURB RAMP



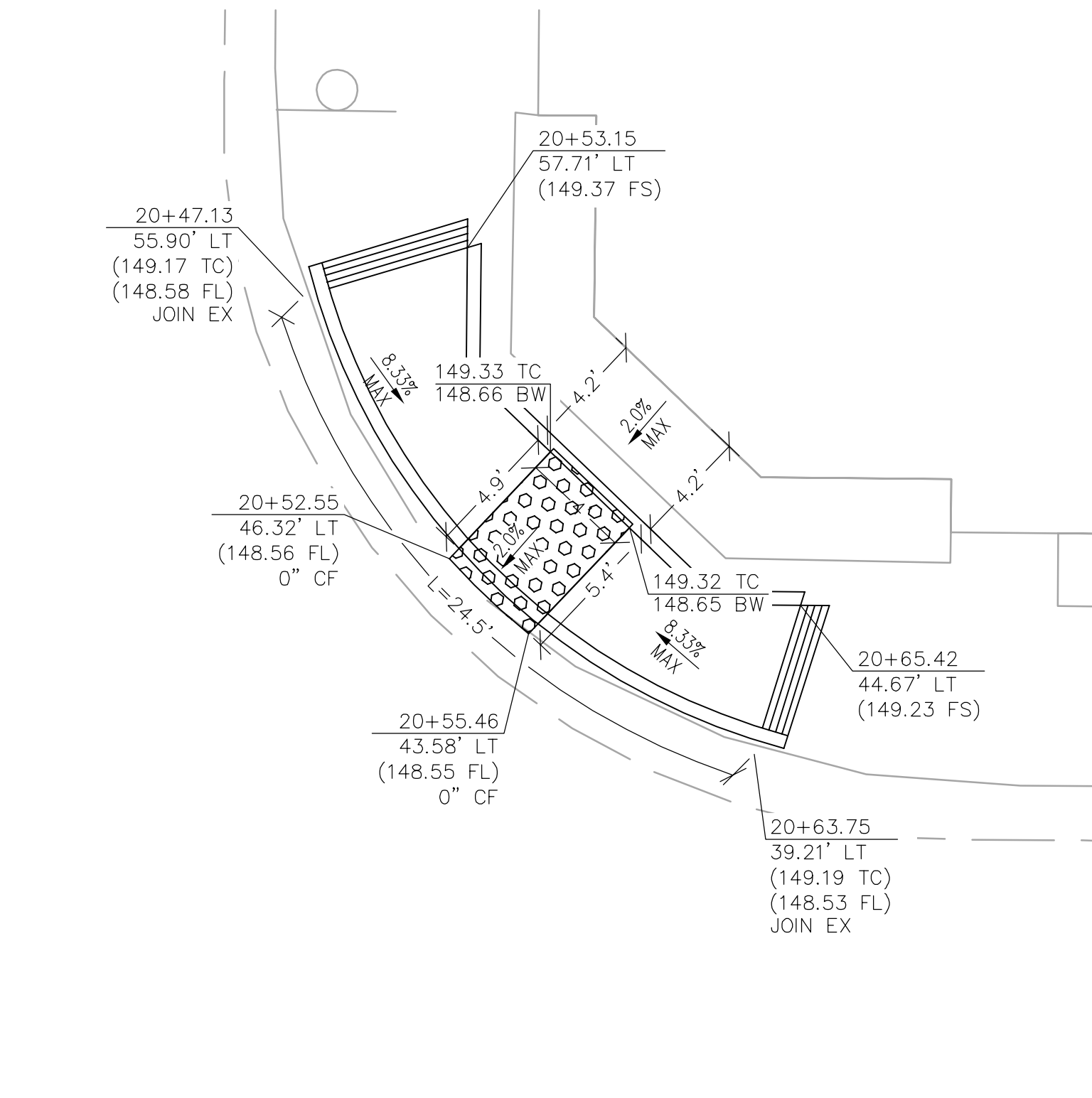
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CD-1 SOUTHEAST CURB RAMP



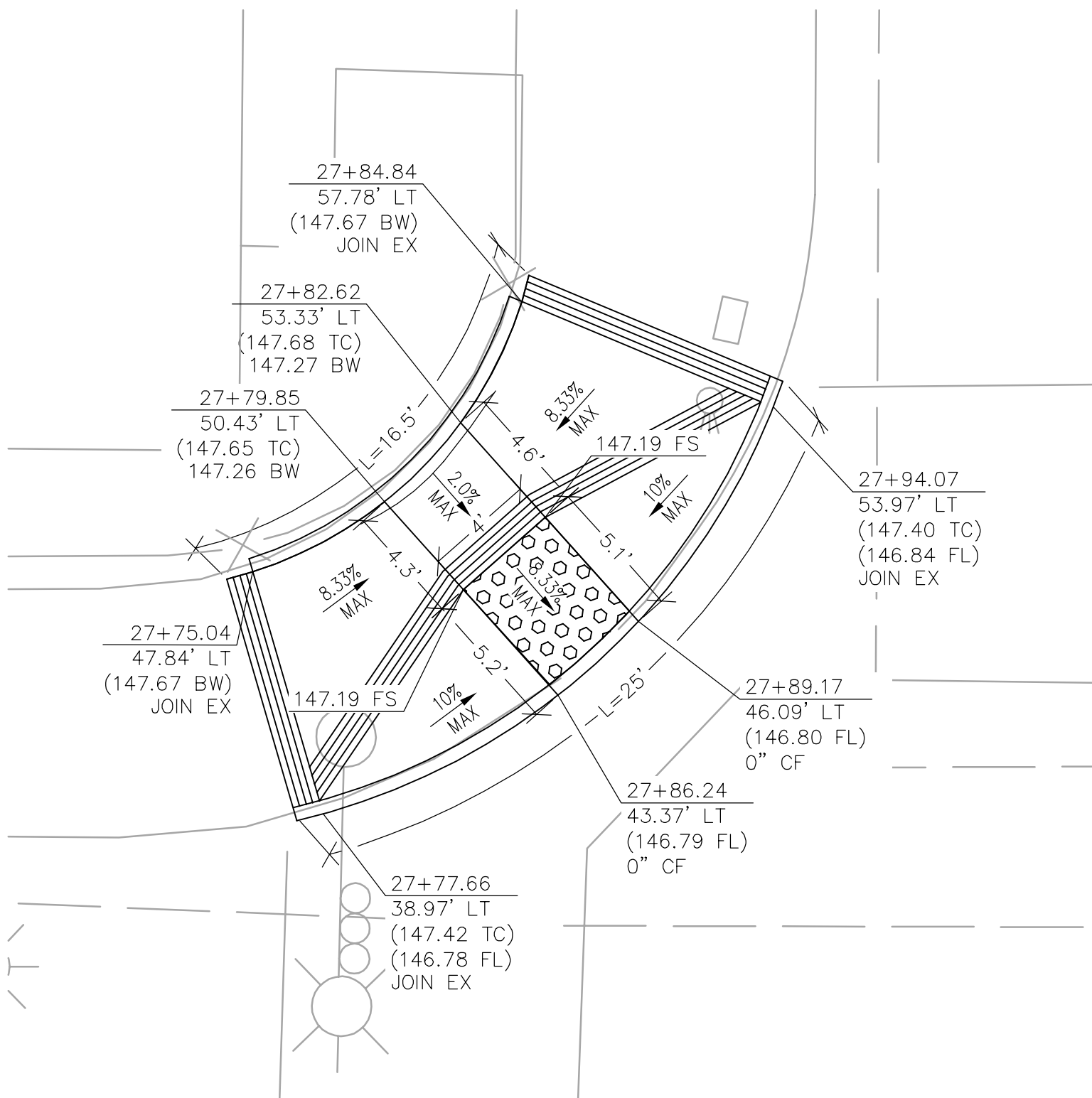
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CD-1 NORTHEAST CURB RAMP



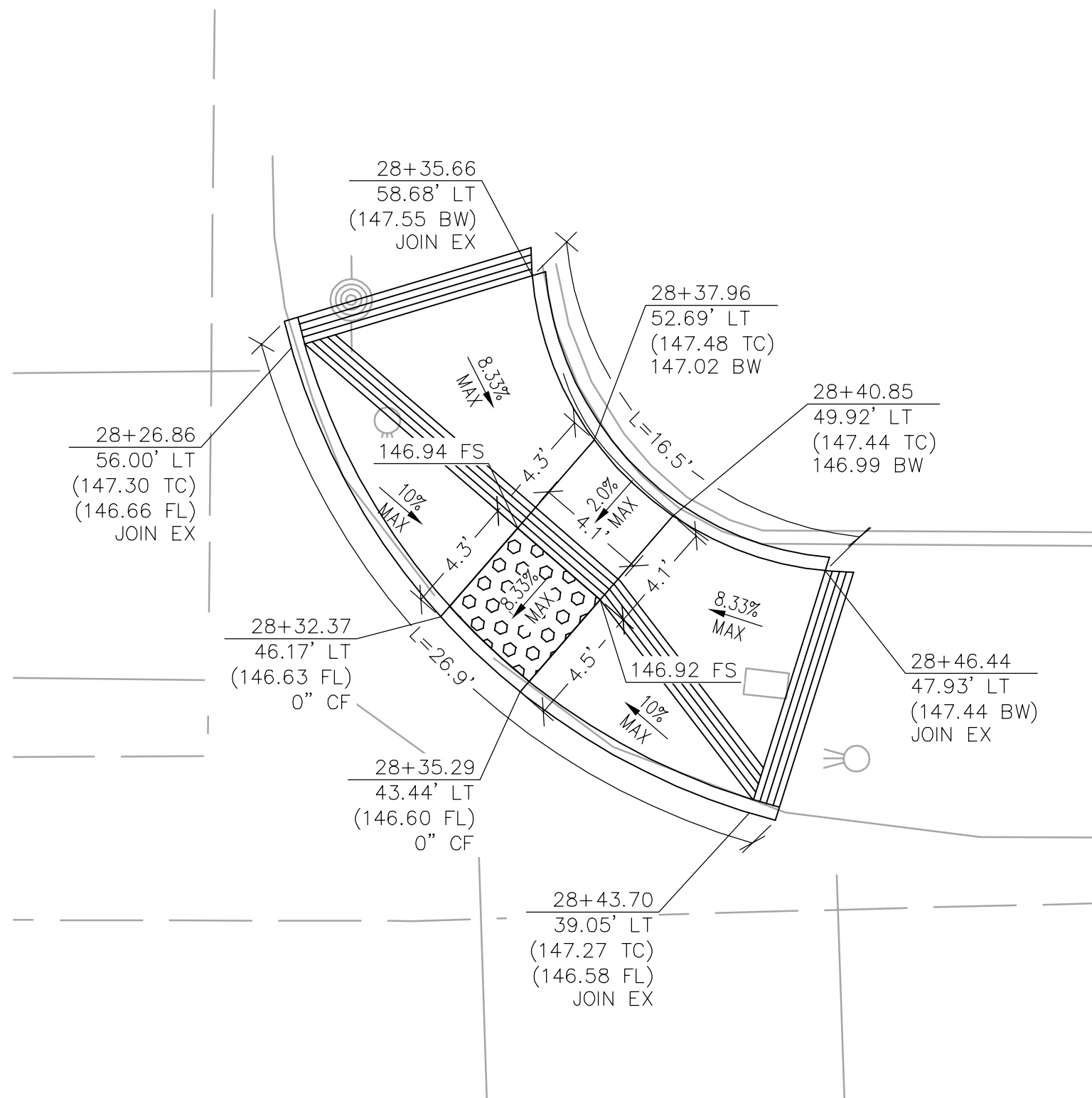
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CD-1 SOUTHWEST CURB RAMP



6 ATLANTIC BOULEVARD AND KINSIE STREET
CD-1 NORTHWEST CURB RAMP



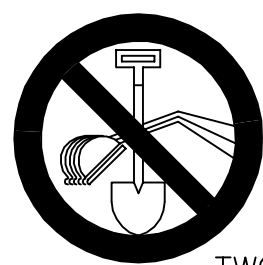
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CD-1 SOUTHWEST CURB RAMP



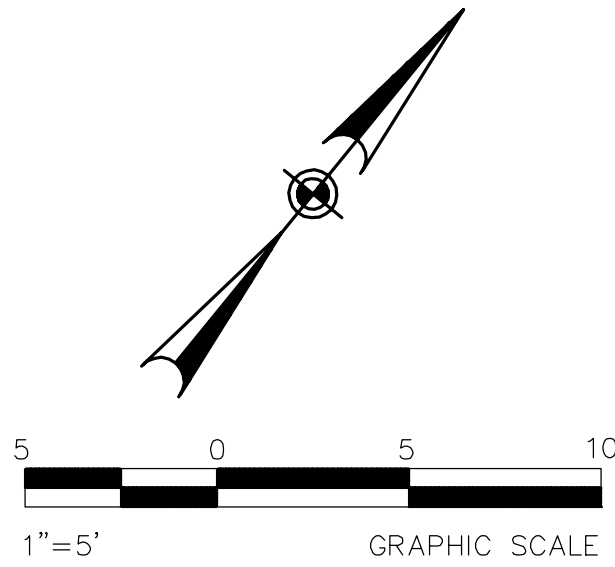
8 ATLANTIC BOULEVARD AND HARBOR STREET
CD-1 NORTHWEST CURB RAMP

NOTES:

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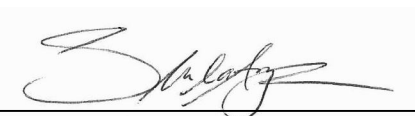


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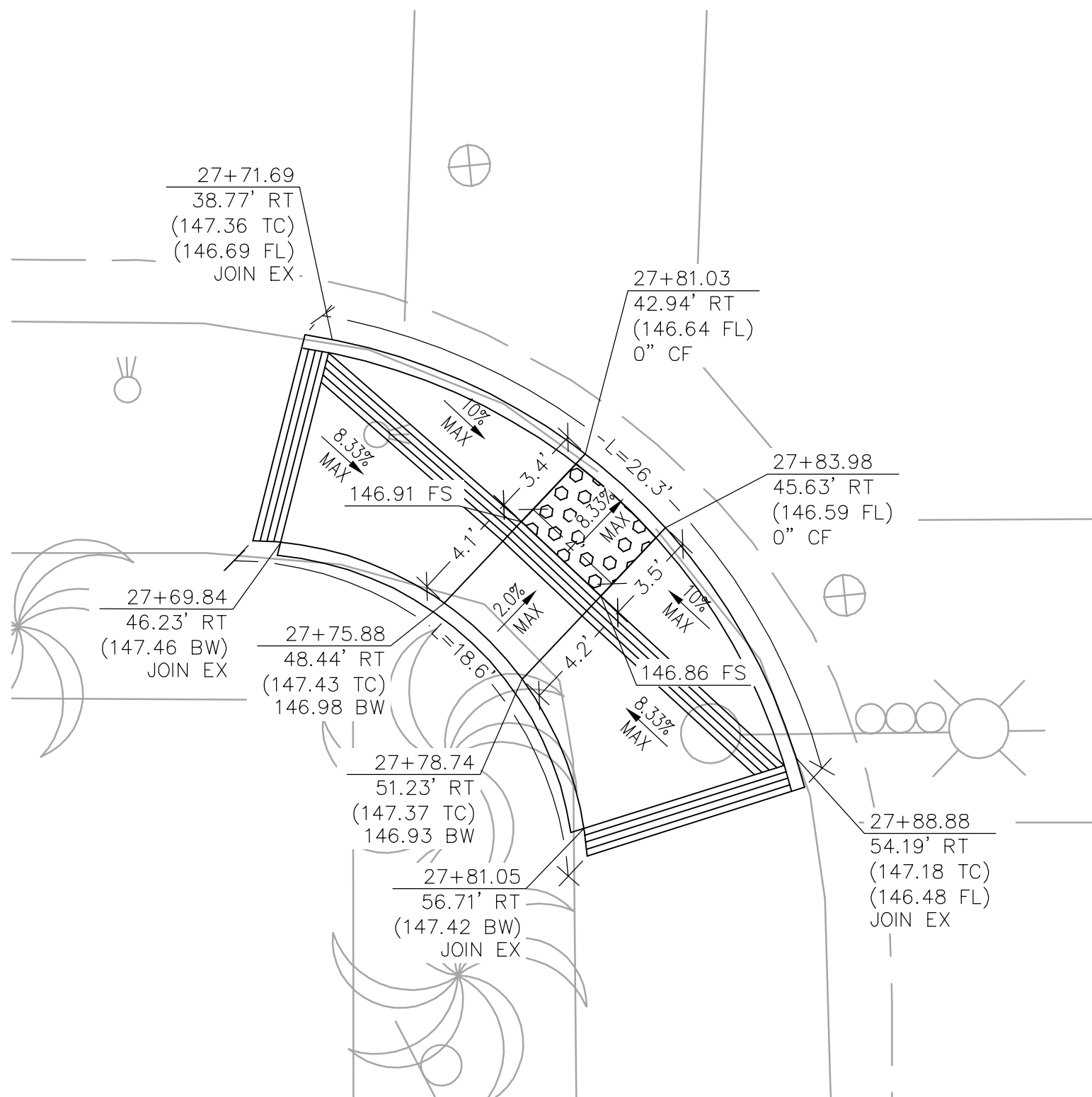
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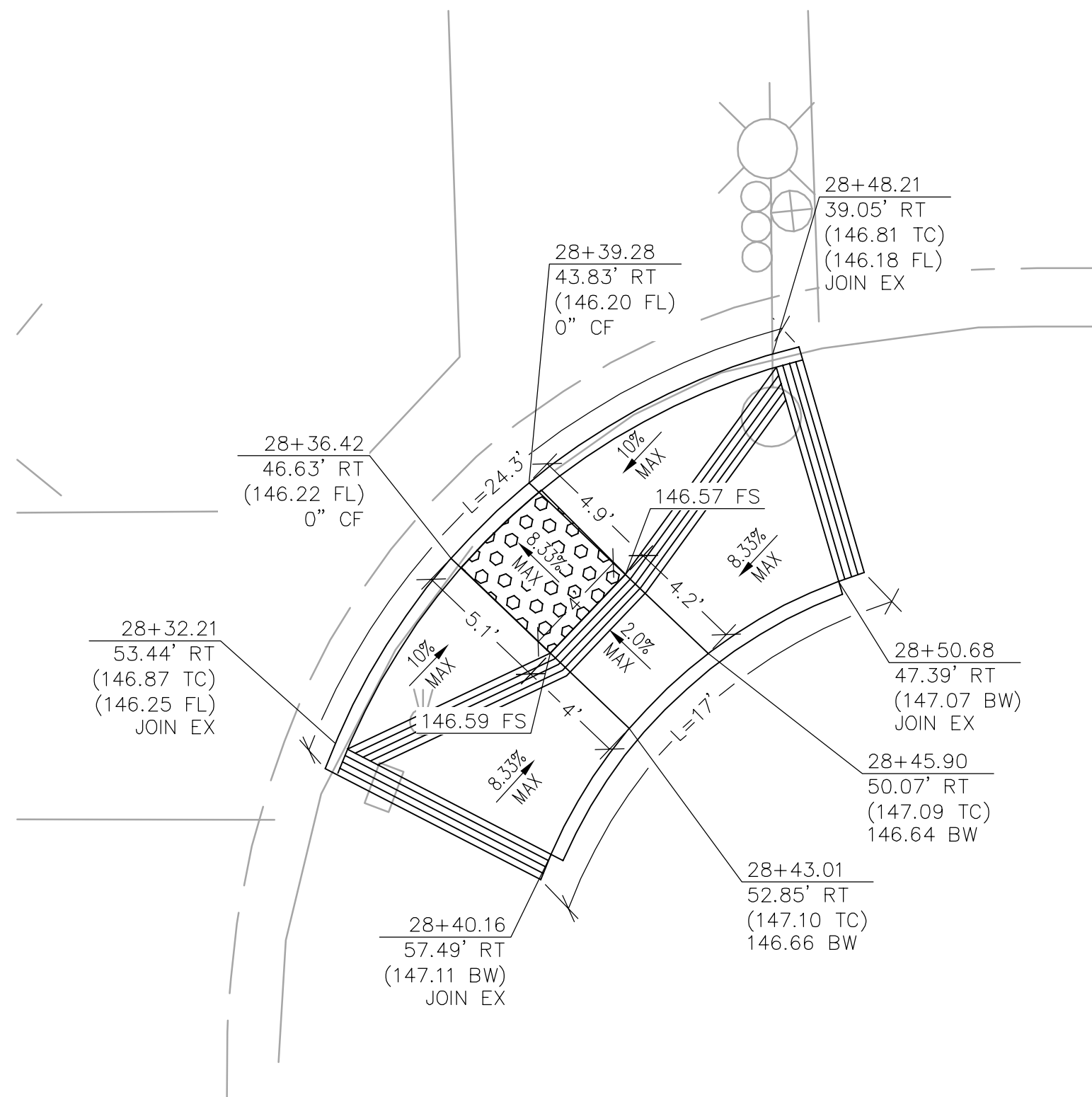
PREPARED BY:
 SHEILA AMPARO, R.C.E. C78003
8/14/2018 DATE

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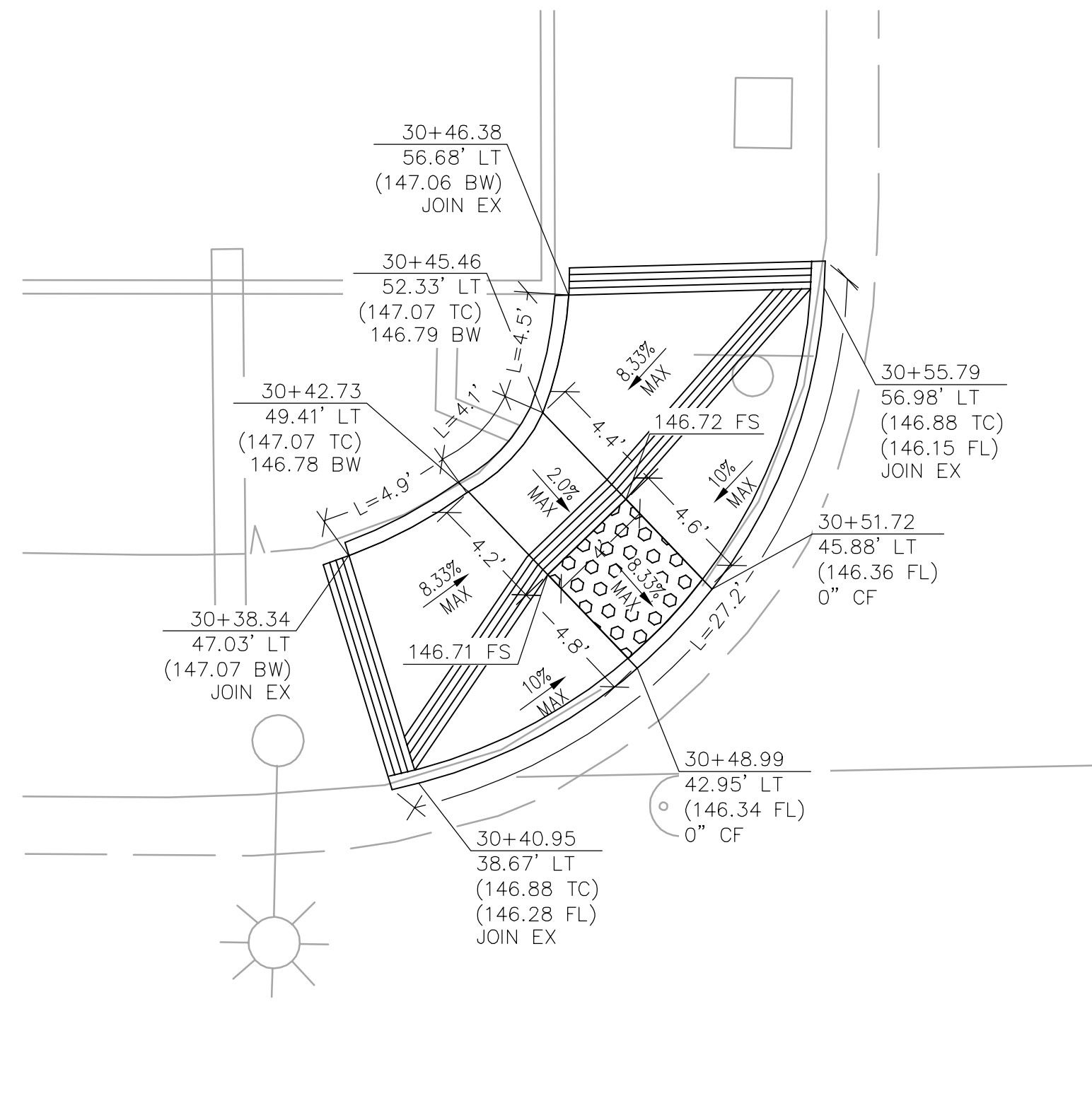
CITY OF COMMERCE PUBLIC WORKS AND ENGINEERING DEPARTMENT	
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
CONSTRUCTION DETAILS 1	
SHEET 12 OF 43 SHEETS	DRWG NO. CD-1



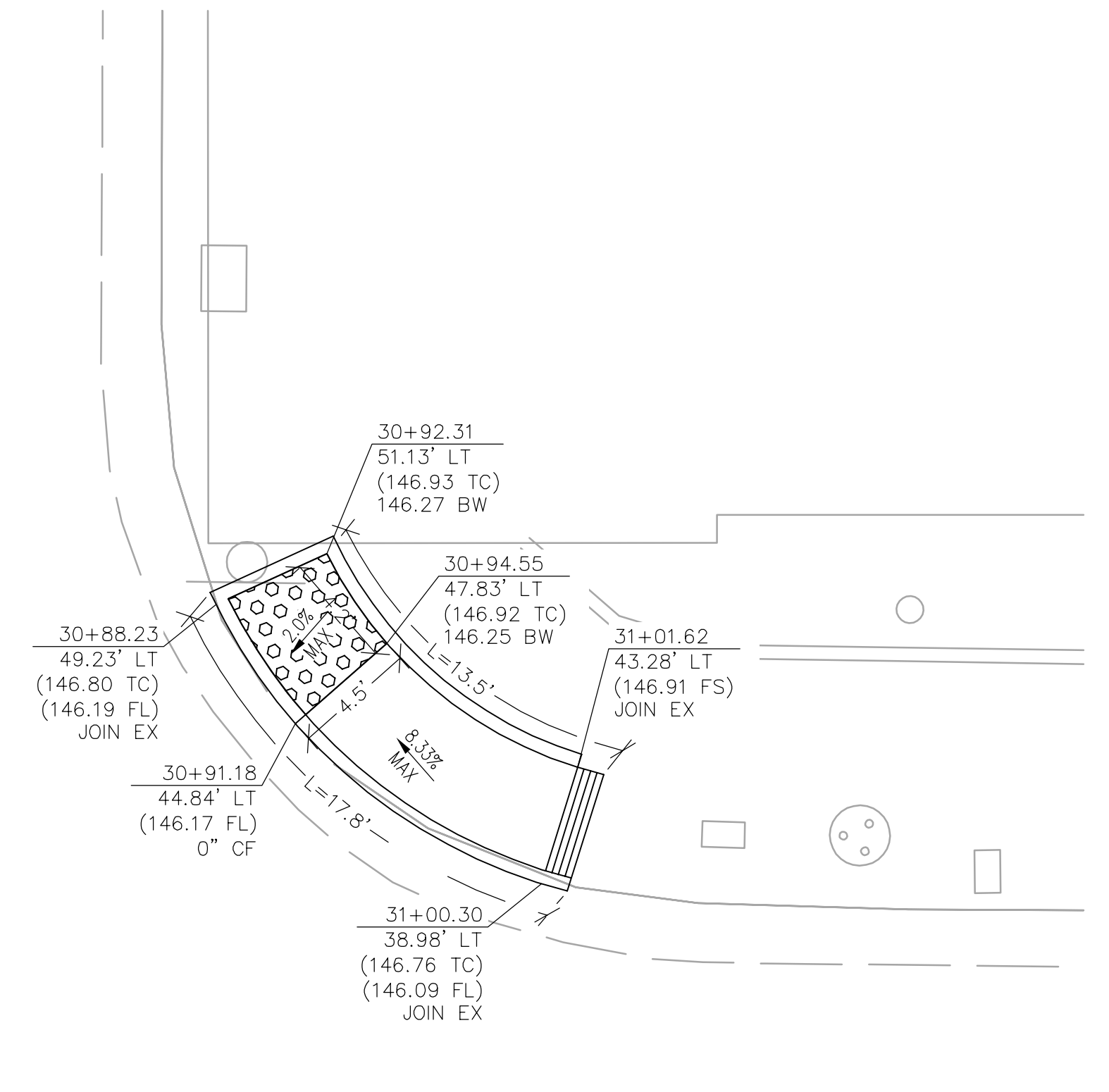
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CD-2 SOUTHEAST CURB RAMP



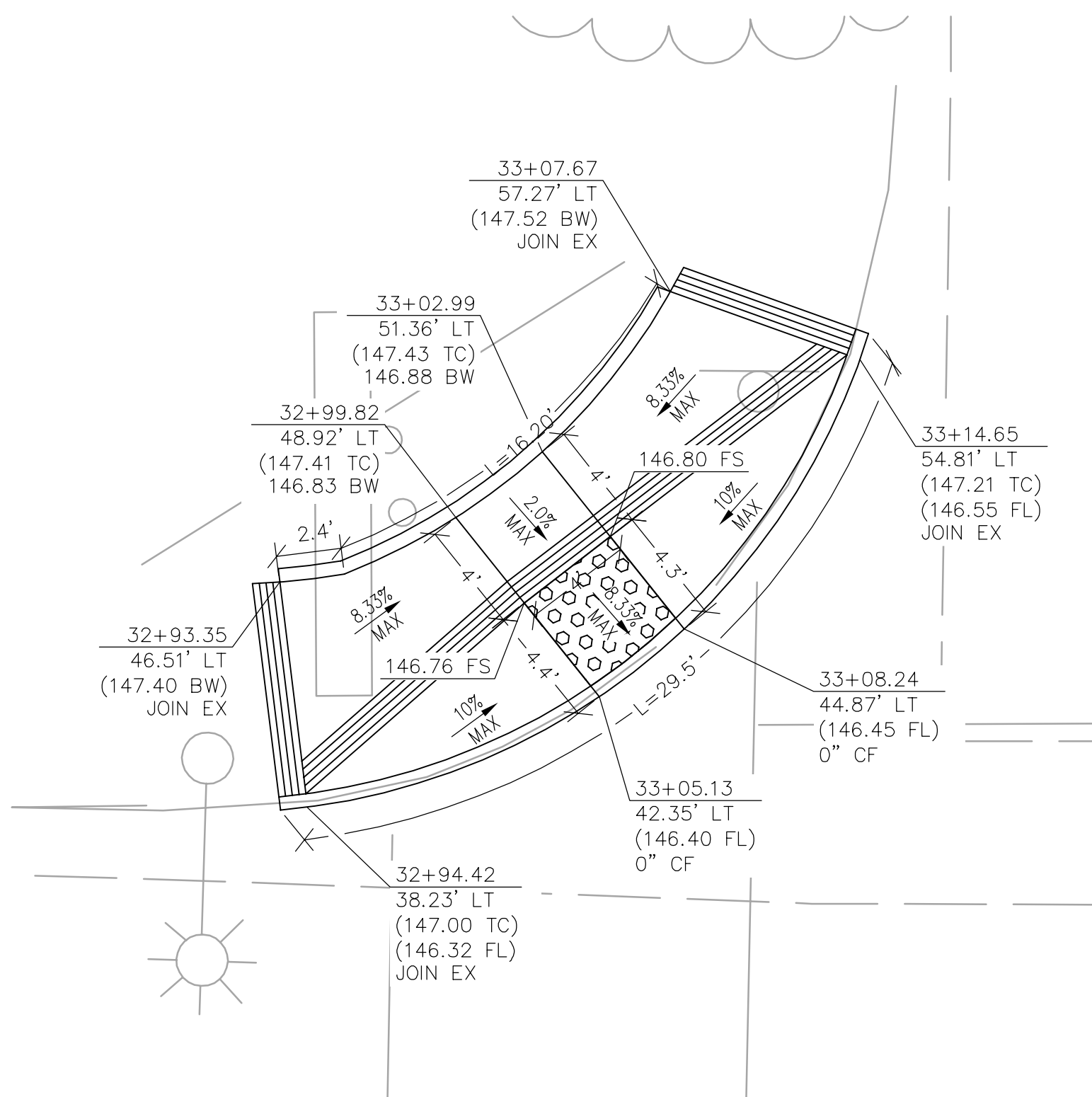
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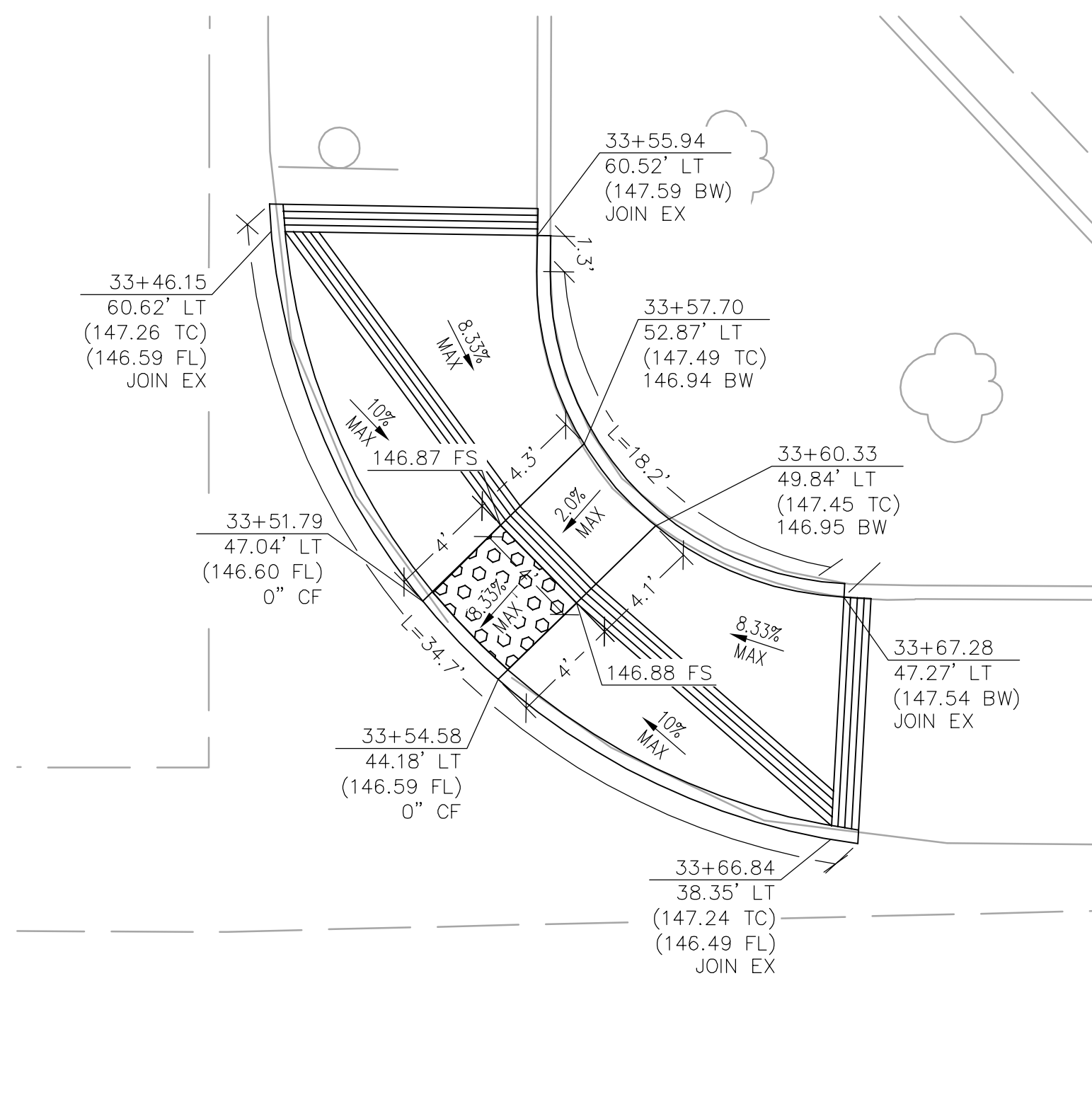
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CD-2 SOUTHWEST CURB RAMP



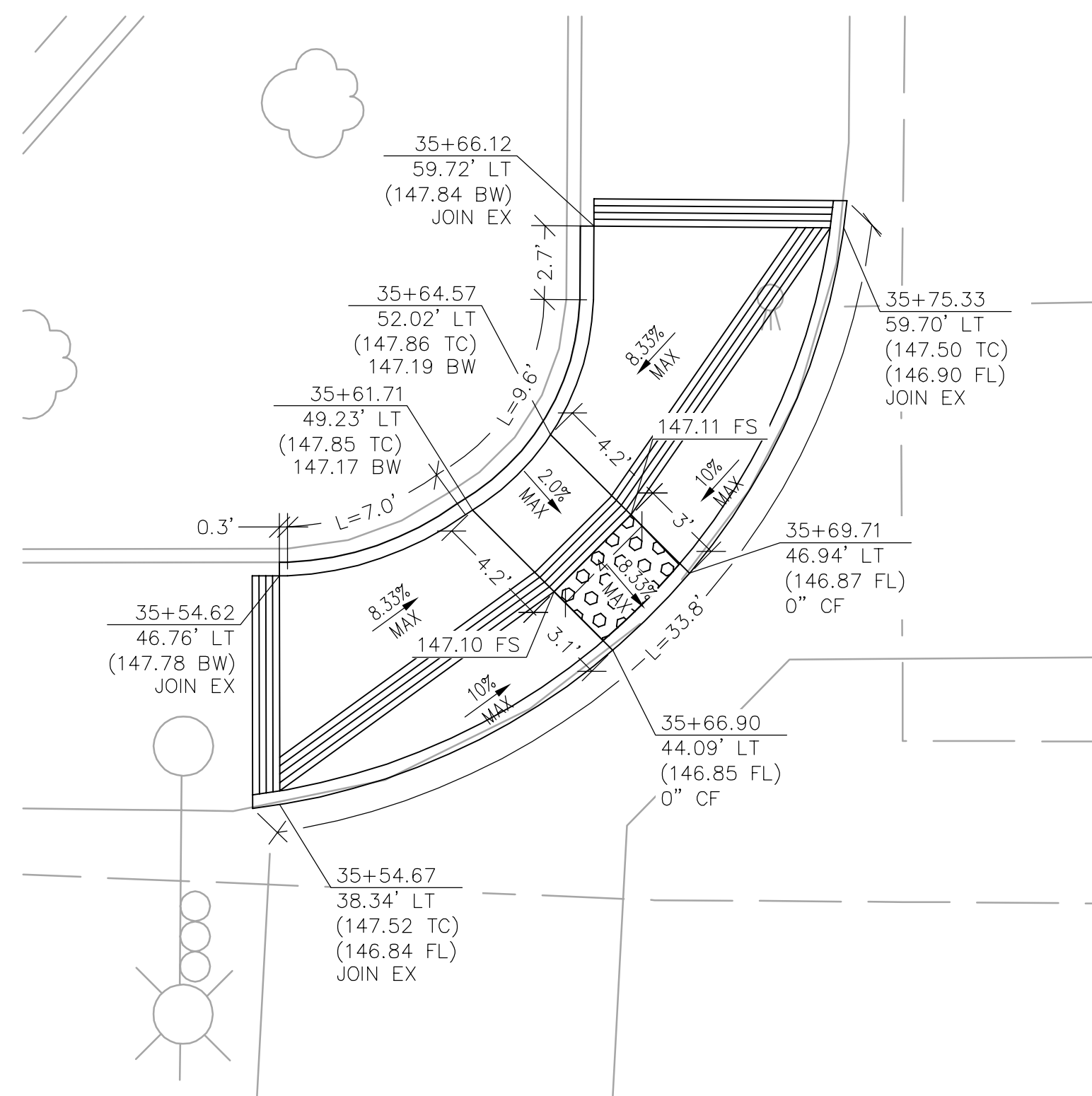
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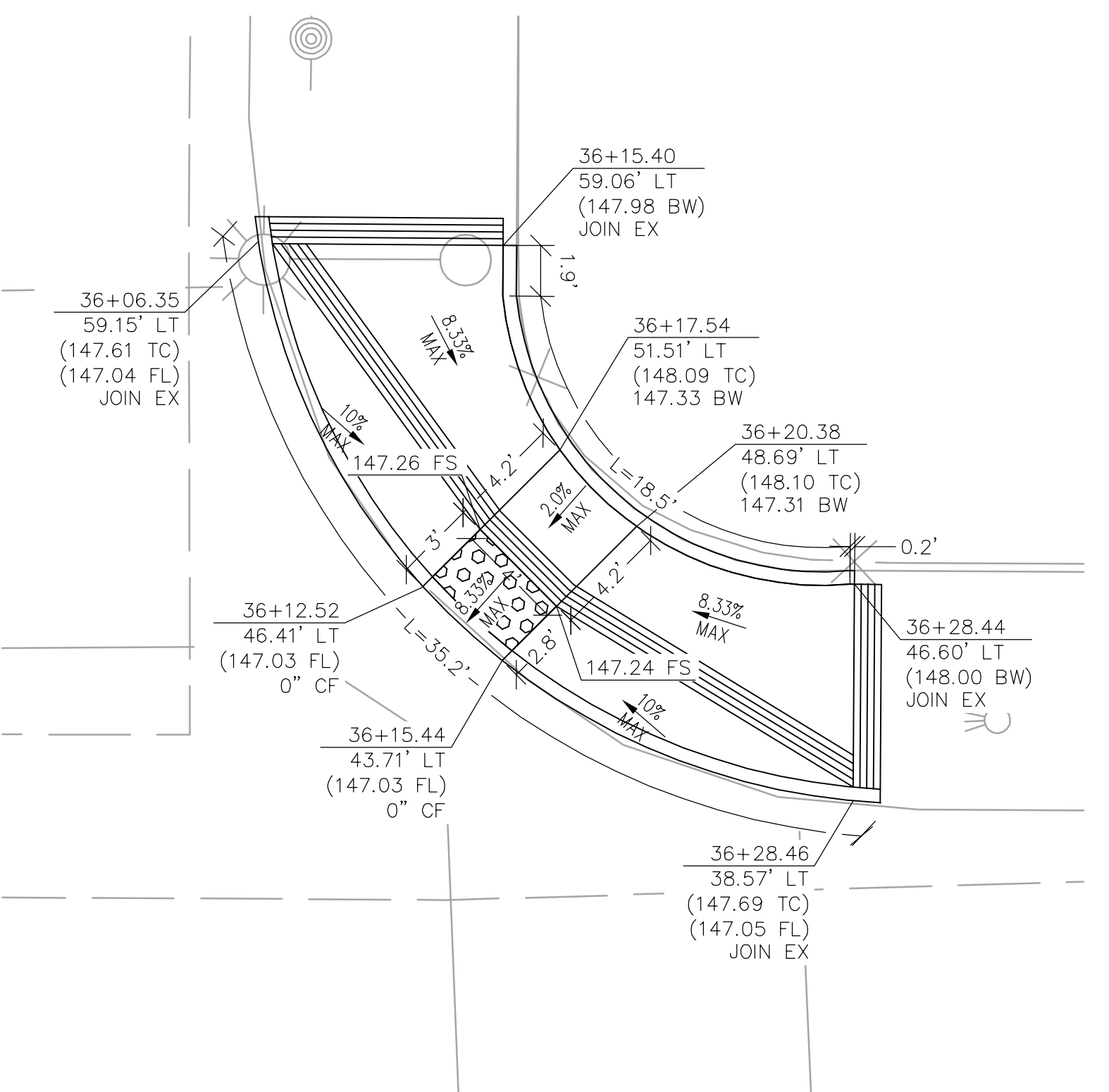
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CD-2 SOUTHWEST CURB RAMP



14 ATLANTIC BOULEVARD AND FAIR STREET
CD-2 NORTHWEST CURB RAMP



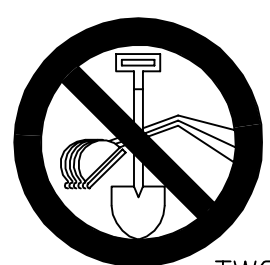
15 ATLANTIC BOULEVARD AND EVERINGTON STREET
CD-2 SOUTHWEST CURB RAMP



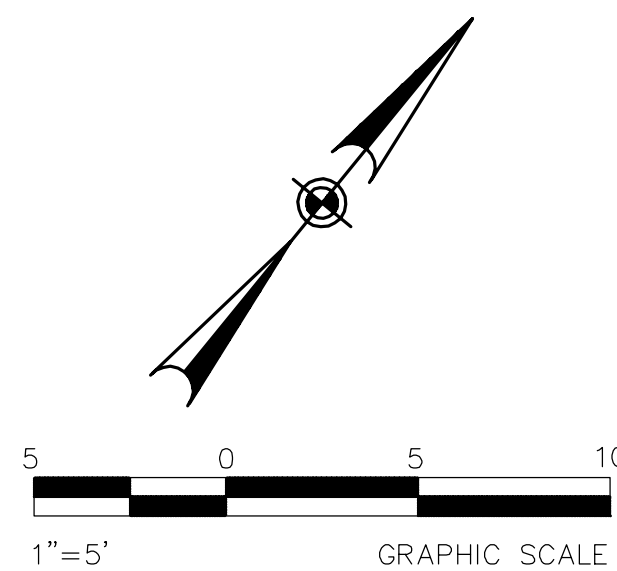
16 ATLANTIC BOULEVARD AND EVERINGTON STREET
CD-2 NORTHWEST CURB RAMP

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PREPARED BY:

SHEILA AMPARO, R.C.E. C78003

8/14/2018
DATE

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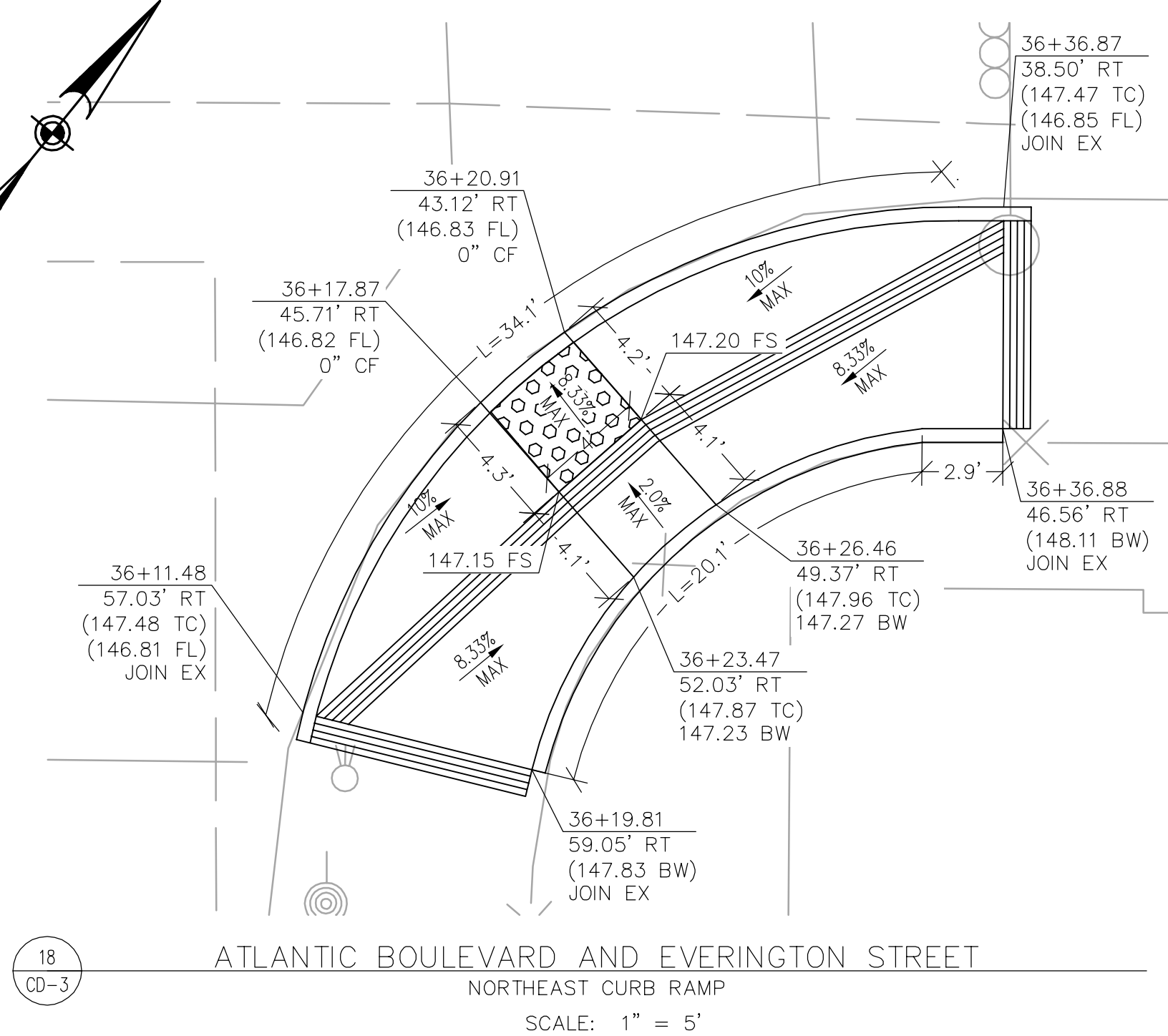
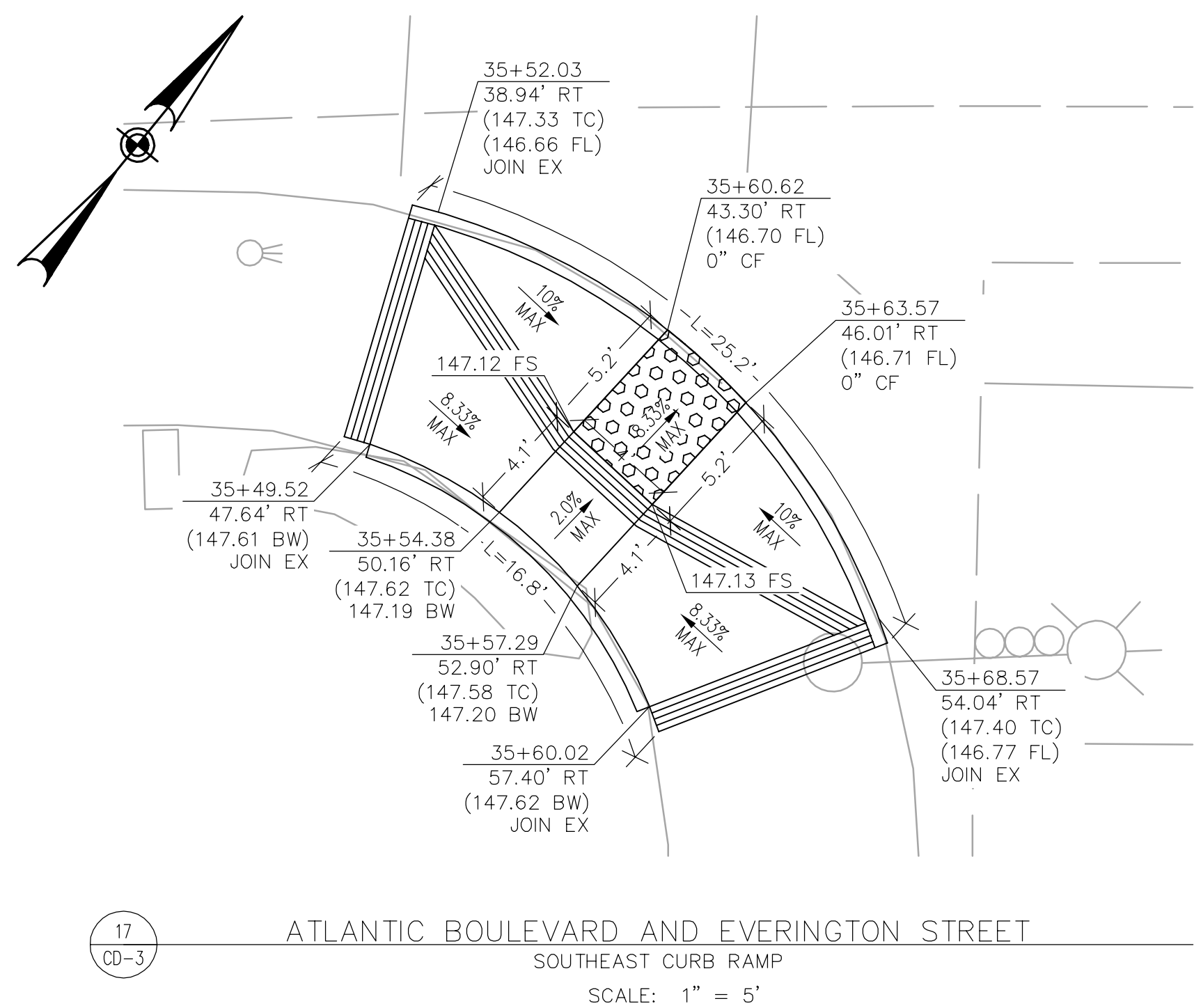
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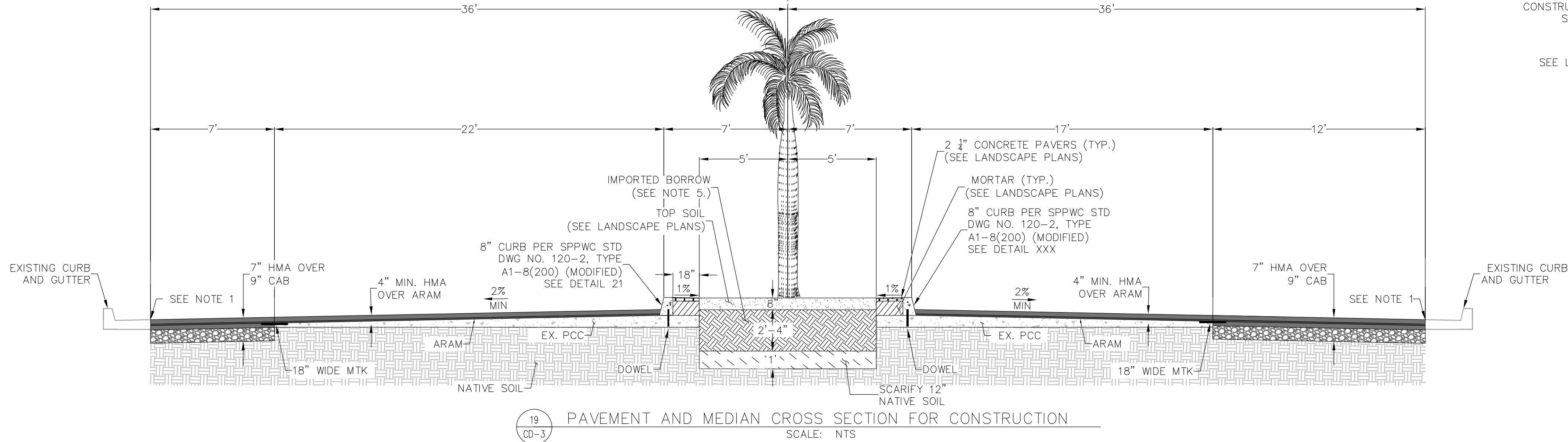
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

CONSTRUCTION DETAILS 2

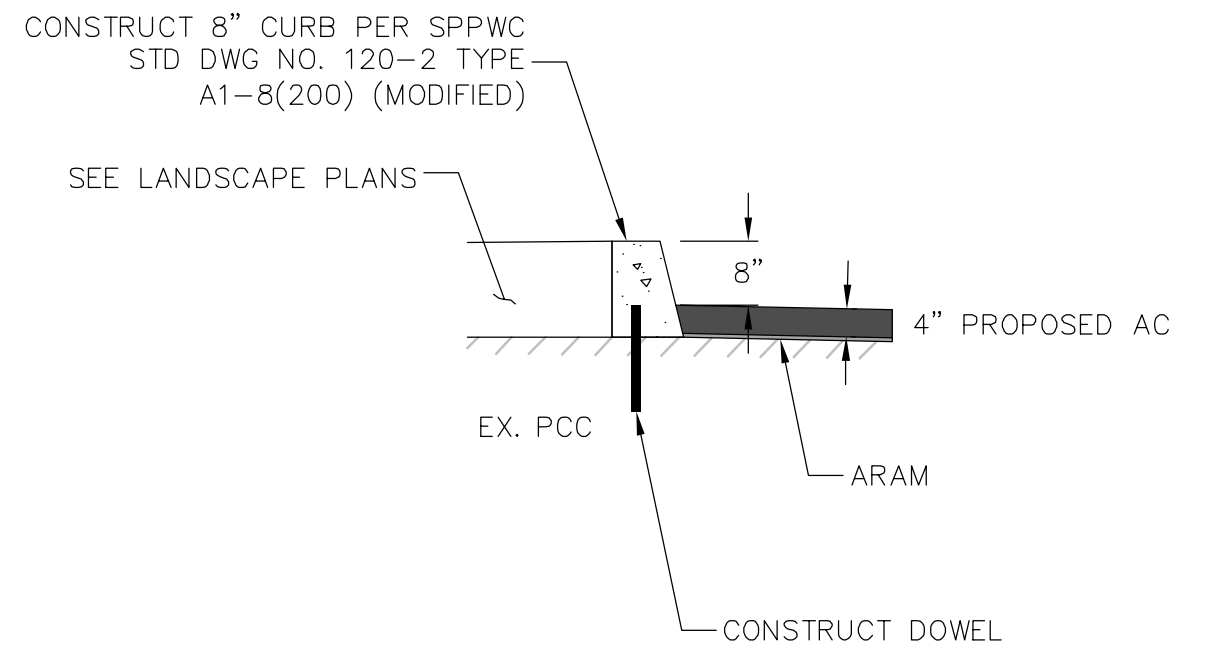
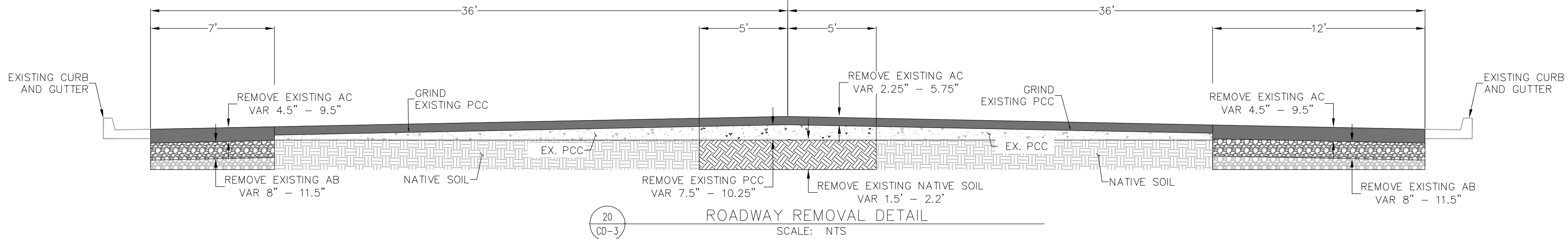
SHEET 13 OF 43 SHEETS DRWG NO. CD-2



ATLANTIC BLVD

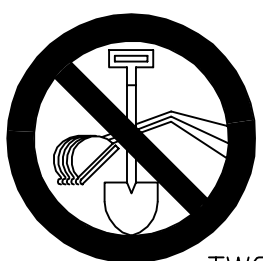


ATLANTIC BLVD



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- SEE LANDSCAPE PLANS SHEET L-02, PLANTING NOTE 2 FOR IMPORTED BORROW TESTING REQUIREMENTS.



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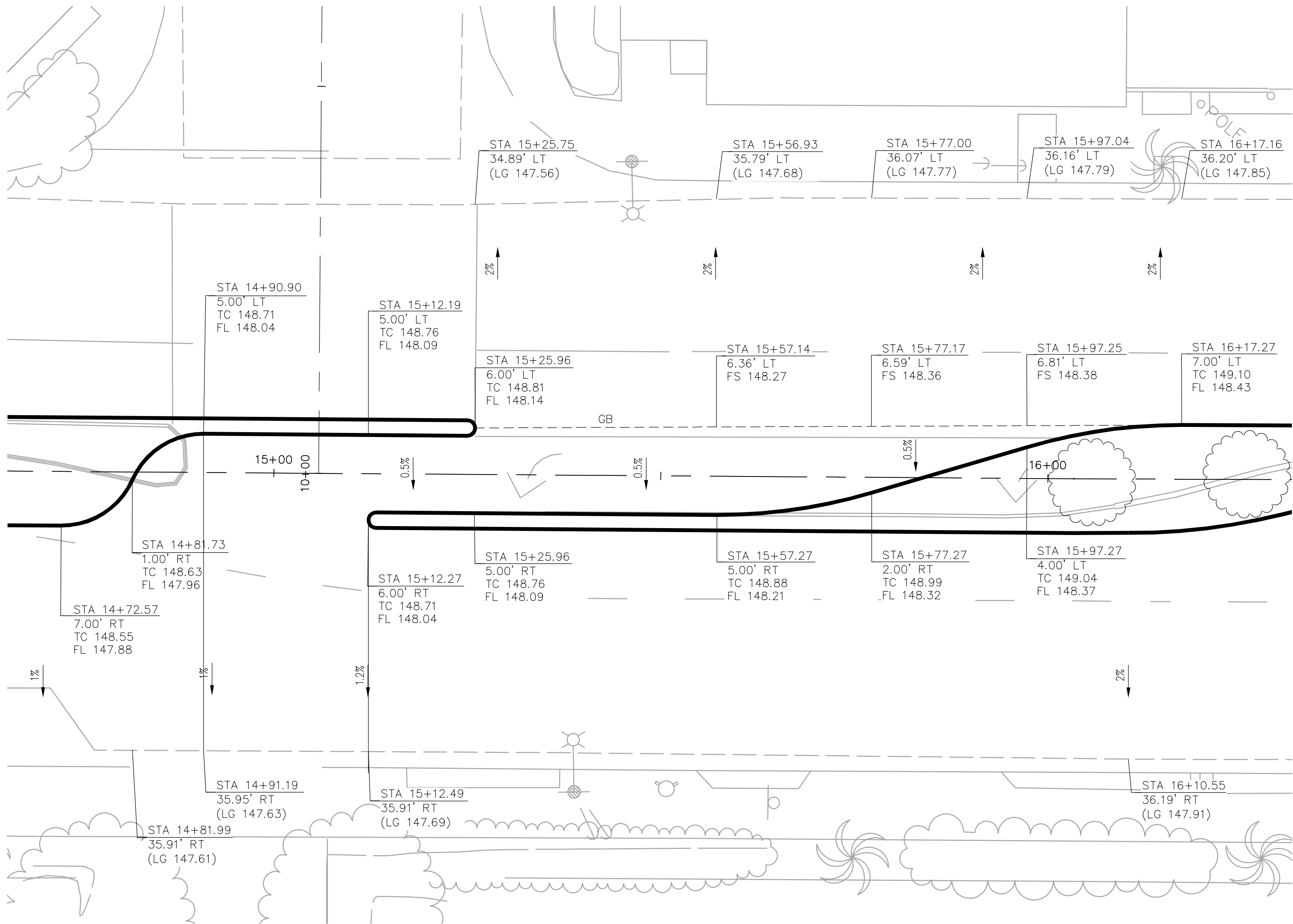
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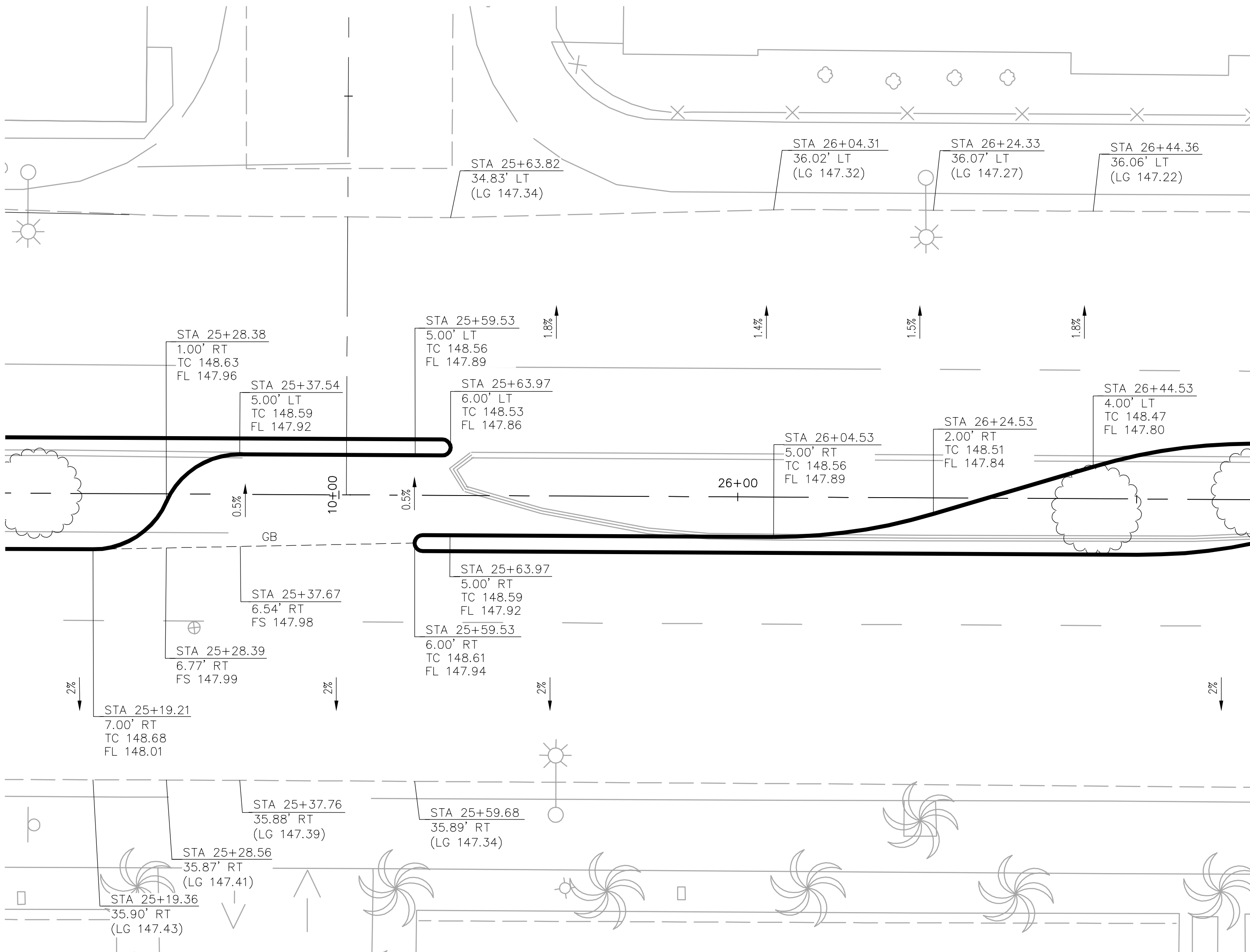
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

CONSTRUCTION DETAILS 3

SHEET 14 OF 43 SHEETS DRWG NO. CD-3



22
CD-4 ATLANTIC BOULEVARD AND LEONIS STREET
MEDIAN LEFT TURN POCKET



23
CD-4 ATLANTIC BOULEVARD AND QUIGLEY STREET
MEDIAN LEFT TURN POCKET

NOTES:

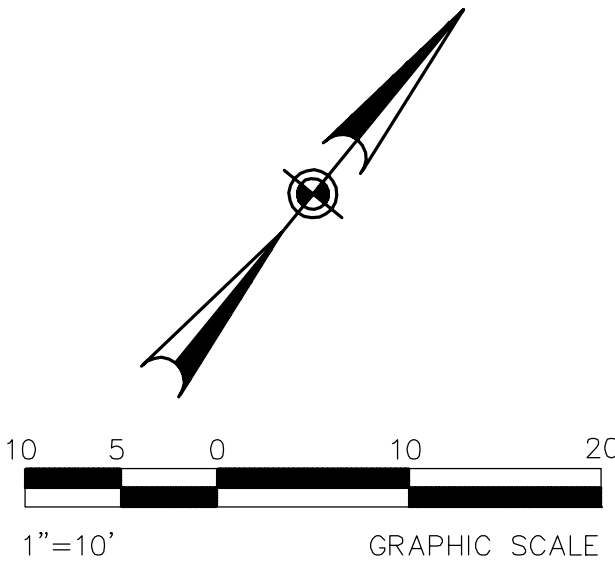
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TITLE DATE

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PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

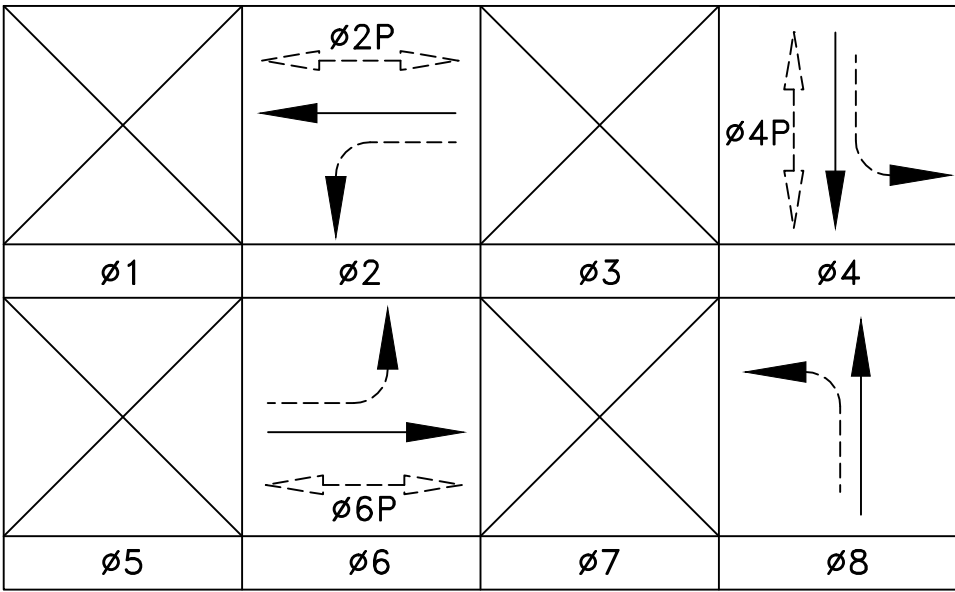
CONSTRUCTION DETAILS 4

SHEET 15 OF 43 SHEETS

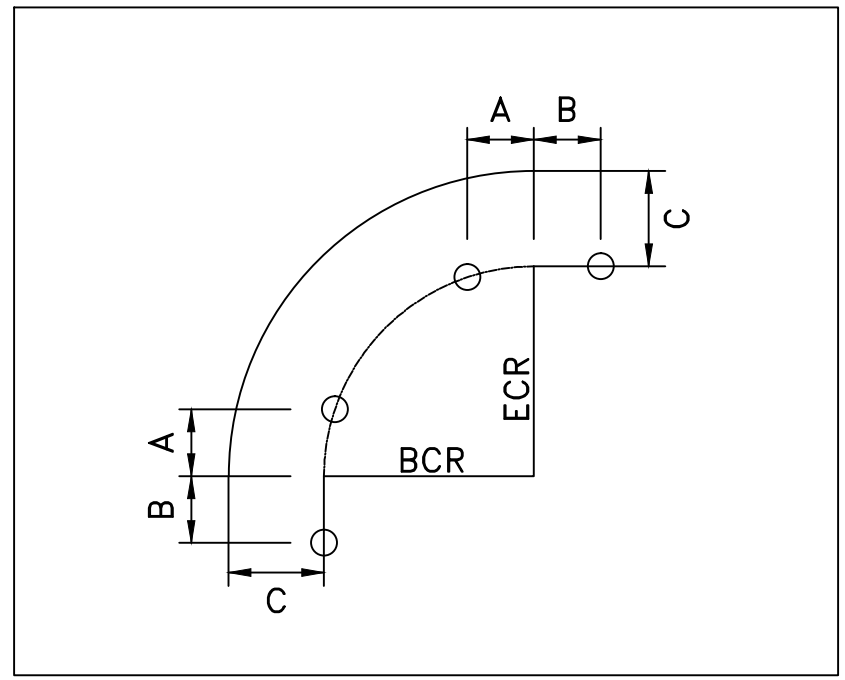
DRWG NO.

CD-4

PROPOSED SIGNAL PHASE DIAGRAM



POLE LOCATION DETAIL



LEGEND

- STREET LIGHT
- EXIST POWER POLE
- TRAFFIC SIGNAL CONTROLLER CABINET
- EVP EQUIPMENT
- PROPOSED CONDUIT
- SERVICE EQUIPMENT ENCLOSURE
- PROPOSED PULLBOX
- BW EXIST
- POC
- TC
- TYP

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- INSTALL MODEL 170E CONTROLLER ASSEMBLY INSIDE NEW MODEL 332 CABINET ON NEW FOUNDATION COMPLETE WITH PED ISOLATION MODULES, SWITCH PACKS, BATTERY BACK UP SYSTEM, AND ALL OTHER EQUIPMENT NECESSARY FOR THE INTENDED OPERATION AS SHOWN ON THE PLAN.
- INSTALL 120/240V METER TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC AND THE FOLLOWING 120 VOLT CIRCUIT BREAKERS: ON TC-1 METER: 50AMP (TRAFFIC SIGNALS); ON LS-3 METER: 30AMP (INTERSECTION LIGHTING). SEE 2015 CALTRANS STANDARD PLAN ES-2E. COORDINATE WITH SCE.
- INSTALL EMERGENCY VEHICLE PREEMPTION DETECTOR ON SIGNAL MAST ARM PER MANUFACTURER'S INSTRUCTION.
- INSTALL TYPE E INDUCTIVE VEHICLE DETECTOR LOOPS PER CALTRANS STD PLAN ES-5B.
- INSTALL TYPE D INDUCTIVE VEHICLE/BICYCLE DETECTOR LOOPS PER CALTRANS STD PLAN ES-5B.
- INSTALL #6 PULL BOX AS SHOWN.
- SEE STREET LIGHT PLANS (SHEET 15 OF 41) FOR ELECTRIC SERVICE CONNECTION.

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ATTENTION
ALL UTILITIES SHOWN ON THIS PLAN ARE BASED ON AVAILABLE RECORDS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES BY CONTACTING UTILITY AGENCIES AND TO AVOID DAMAGING EXISTING UTILITIES DURING EXCAVATION.

NO.	REVISIONS	REVISED BY	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF
WILLIAM G. ZIMMERMAN
REGISTERED CIVIL ENGINEER NO. 48667
EXP 06-30-2020
07-30-18
DATE

ELECTRONICALLY APPROVED BY:
PUBLIC WORKS & DEV. SERVICES DIRECTOR DATE
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CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPT.
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS
STREET SIGNAL PLAN
SHEET 14 OF 41 SHEETS DRWG NO.

POLE SCHEDULE

POLE DATA			SIGNAL LUMINAIRE			SIGNAL MOUNTING			PED PUSH BUTTON		POLE LOCATION			IISNS	
No.	TYPE	HEIGHT	M.A.	M.A.	LED	VEH	M.A.	PED	PHASE	POLE	QUAD	A	B		C
(A)	26-4-100	30'	40'	12'	112W	SV-1-T	2-MAS	-	-	-	-	-	1'	2.5'	JILLSON ST (R)
(B)	1-A	10'	-	-	-	TV-1-T	-	-	6	N	-	1'	2.5'	-	-
(C)	15TS	30'	-	12'	112W	SV-1-T	-	-	6	N	1'	-	2.5'	ATLANTIC BLVD (R)	-
(D)	1-A	10	-	-	-	SV-1-T	-	SP-1-T	4	E	-	1'	2.5'	-	-
(E)	26-4-100	30'	35'	12'	112W	SV-1-T	2-MAS	SP-1-T	4	E	3'	-	2.5'	JILLSON ST (R)	-
(F)	1-A	10'	-	-	-	TV-1-T	-	SP-1-T	2	S	3.5'	-	2.5'	-	-
(G)	15TS	30'	-	12'	112W	SV-1-T	-	-	2	S	3'	-	2.5'	-	-
(H)	1-A	10'	-	-	-	TV-1-T	-	SP-1-T	-	-	3'	-	2.5'	ATLANTIC BLVD (R)	-

ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
ALL NEW SIGNAL POLES AND MAST ARMS SHALL BE PER CALTRANS STANDARD PLANS, 2015 EDITION.
ALL SIGNAL MOUNTINGS SHALL BE PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, 2015 EDITION.
CONTRACTOR SHALL POTHOLE MAST ARM POLE FOUNDATION LOCATIONS PRIOR TO OPERATING POLES.

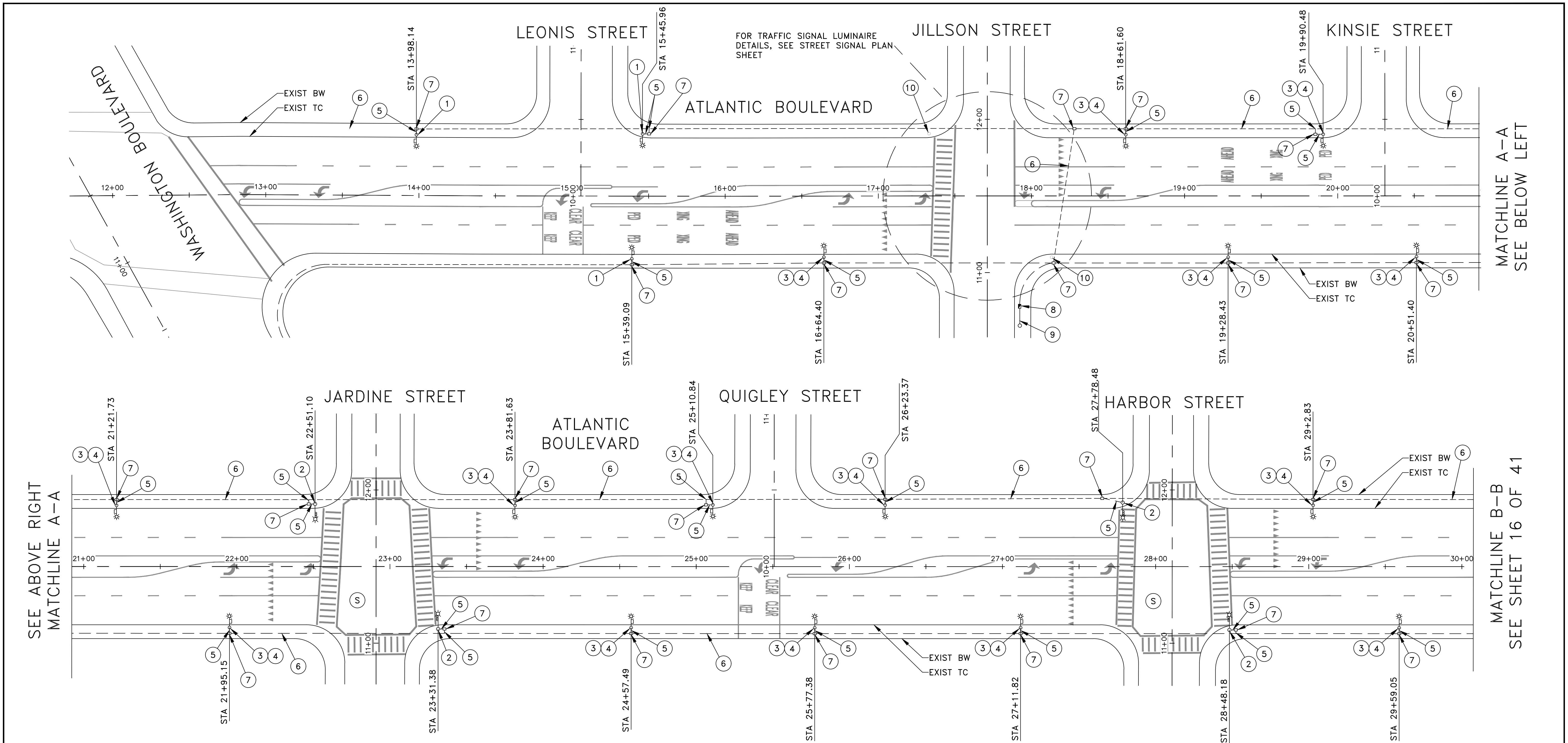
GENERAL NOTES

- TRAFFIC SIGNAL, LIGHTING, AND ELECTRICAL SYSTEMS SHALL CONFORM TO THE LOS ANGELES COUNTY STANDARDS WHICH INCLUDE THE STANDARD PLANS FOR PUBLIC WORK CONSTRUCTION LATEST EDITION, AND THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS TRAFFIC SIGNAL CONTROL EQUIPMENT SPECIFICATIONS LATEST EDITION, UNLESS OTHERWISE NOTED ON THE PLAN OR IN THE SPECIAL PROVISIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ALL WIRING SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION.
- ALL SIGNAL EQUIPMENT SHALL BE WIRED IN ACCORDANCE WITH THE PROPOSED SIGNAL PHASE DIAGRAM.
- ALL NEW PULL BOXES SHALL BE NO. 6, UNLESS SHOWN OTHERWISE.
- ALL NEW UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- SIGNAL, LIGHTING AND ELECTRICAL SYSTEMS SHALL CONFORM TO THE CITY OF COMMERCE SPECIFICATIONS AS OUTLINED IN THE SPECIAL PROVISIONS.
- NEW VEHICLE HEADS SHALL BE 12" L.E.D. (LIGHT EMITTING DIODE), VEHICLE HEADS PER LOS ANGELES COUNTY DPW SPECIFICATIONS. (SEE SPECIAL PROVISIONS).
- ALL NEW PEDESTRIAN PUSH BUTTONS SHALL BE LED COUNTDOWN AND ADA COMPLIANT.
- ALL POLE LOCATIONS SHOWN HEREON ARE APPROXIMATE. PRECISE LOCATIONS SHALL BE ESTABLISHED IN THE FIELD AND VERIFIED BY THE PROJECT ENGINEER.
- ALL NEW SIGNAL POLES WITH PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED NO FURTHER THAT 5 FEET FROM THE BACK OF CROSWALK OR LIMIT LINE UNLESS OTHERWISE NOTED.

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR OR AWG	POLE #	PHASES	1	2	3	4	5	6	7	8	9
12CSC/ 5CSC/ 3CSC	(A)	ø6/ø6P/-	-	-	-	-	-	-	1	1	1
	(B)	ø4/-/ø6PPB	-	-	-	-	-	-	-	1	-1
	(C)	ø4/ø4P/ø6PPB	-	-	-	-	-	-	-	1	1
	(D)	ø2/ø6P/ø4PPB	-	-	-	1	1	1	-	-	1
	(E)	ø2/ø2P/ø4PPB	-	-	-	1	1	1	1	-	1
	(F)	ø8/ø4P/ø2PPB	-	-	1	1	1	1	1	-	1
	(G)	ø8/-/ø2PPB	-	1	1	1	1	1	-	1	-1
	(H)	ø6/ø2P/-	1	1	1	1	1	1	-	-	1
TOTAL CABLE			1	2	1	3	2	4	3	5	4
#10AWG	LED LUMINAIRES		-	2	2	2	2	2	2	2	2
#14AWG	LED IISNS		-	-	-	2	2	2	2	2	2
TYPE B DLC			-	-	3	3	3	3	-	6	6
(EVP) OPTICOM CONTROL CABLE			-	-	-	1	1	1	1	2	2
PERCENT FILL			9%	18%	16%	22%	16%	19%	12%	25%	25%
CONDUIT SIZE (INCH)			3"	3"	2-3"	2-3"	2-4"	2-4"	3"	2-4"	2-4"

ALL CONDUCTORS AND CONDUITS ARE NEW UNLESS OTHERWISE SPECIFIED.
*=EXISTING



- ### CONSTRUCTION NOTES

 - REMOVE AND SALVAGE EXISTING LUMINAIRE AND MAST ARM. REPLACE WITH PROPOSED 112W LED LUMINAIRE WITH 8' MAST ARM.
 - REMOVE AND SALVAGE EXISTING LUMINAIRE AND MAST ARM. REPLACE WITH PROPOSED 112W LED TRAFFIC SIGNAL LUMINAIRE WITH 8' MAST ARM.
 - REMOVE AND SALVAGE EXISTING STREET LIGHT POLE AND LUMINAIRE AND REPLACE WITH PROPOSED STREET LIGHT POLE AND 112W LED LUMINAIRE WITH 8' MAST ARM.
 - FURNISH AND INSTALL FOUNDATION PER DETAIL ON SHEET 17 OF 41.
 - INSTALL 2" SCHEDULE 80 PVC CONDUIT WITH 2 #8 CONDUCTORS AND 1 #8 GROUND.
 - INSTALL 3" SCHEDULE 80 PVC CONDUIT WITH 2 #8 CONDUCTORS AND 1 #8 GROUND.
 - INSTALL NO. 5 PULL BOX. PULLBOX COVER SHALL STATE "LIGHTING".
- ### GENERAL NOTES

 - THE STREET LIGHT POLES SHALL BE PER THE SPECIFICATIONS OF THIS PROJECT.
 - SCE SHALL PROVIDE CONNECTION FOR PROPOSED STREET LIGHTING. CONTRACTOR SHALL COORDINATE WITH SCE REPRESENTATIVE.
 - FIVE FOOT CLEARANCE TO BE MAINTAINED FROM THE FIRE HYDRANT.
 - FOUR FOOT CLEARANCE TO BE MAINTAINED FROM TOP OF SLOPE AT COMMERCIAL DRIVEWAY, 2 FOOT CLEARANCE FROM RESIDENTIAL DRIVEWAY.
 - THE STREET LIGHT POLES SHALL BE AMERON TYPE 1-C1 SERIES OR AGENCY APPROVED EQUAL.
 - THE LOCATION OF A STREET LIGHT MAY ONLY BE ADJUSTED UP TO 10 FEET, ONLY TO AVOID AN OBSTRUCTION SUCH AS A CATCH BASIN, DRIVEWAY, ETC. ANY DEVIATION EXCEEDING 10 FEET MUST HAVE THE APPROVAL OF THE COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORK, STREET LIGHTING SECTION. IF SUCH APPROVAL IS NOT OBTAINED, THE LIGHT PROPOSED BY THIS PLAN WILL NOT BE ACCEPTED BY COUNTY LIGHTING MAINTENANCE DISTRICT.
 - ALL STREET LIGHT WIRING SHALL BE UNDERGROUND.
 - ALL LIGHTS SHOWN ON THIS LAYOUT SHALL BE ENERGIZED PRIOR TO ACCEPTANCE BY THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORK.
- ### LEGEND

	EXISTING LUMINAIRE
	PROPOSED LUMINAIRE
	NEW CONDUIT
	EXISTING PULLBOX
	PROPOSED PULLBOX
	SIGNALIZED INTERSECTION
	BW BACK OF WALK
	EXIST EXISTING
	PROP PROPOSED
	TC TOP OF CURB

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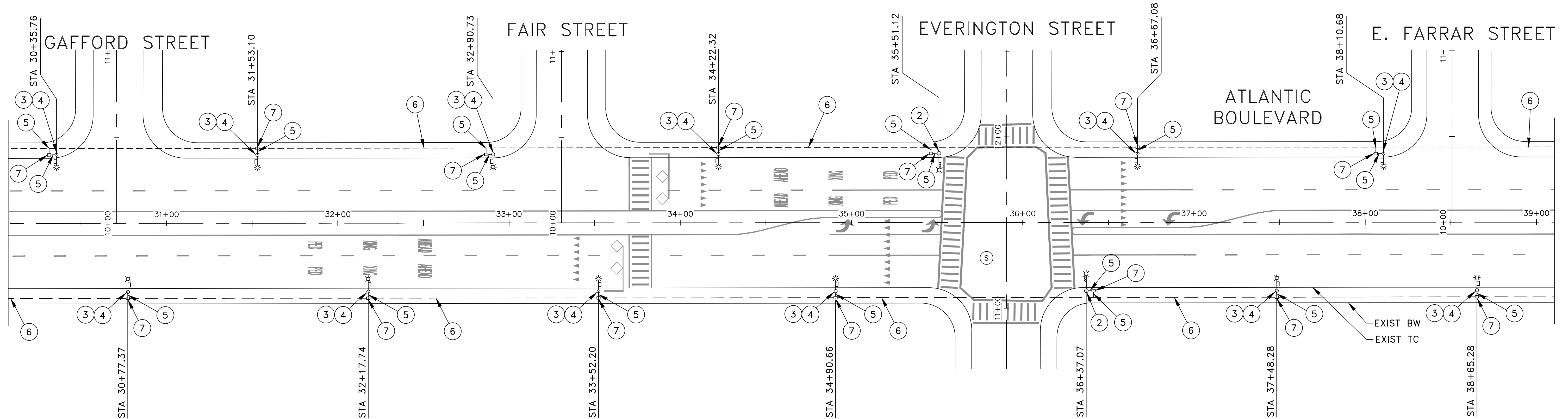
PREPARED UNDER THE SUPERVISION OF

WILLIAM G. ZIMMERMAN
REGISTERED CIVIL ENGINEER NO. 48667
EXP 06-30-2020
7-31-18
DATE

ELECTRONICALLY APPROVED BY:	
PUBLIC WORKS & DEV. SERVICES DIRECTOR	DATE
ELECTRONICALLY CHECKED BY:	
TITLE	DATE

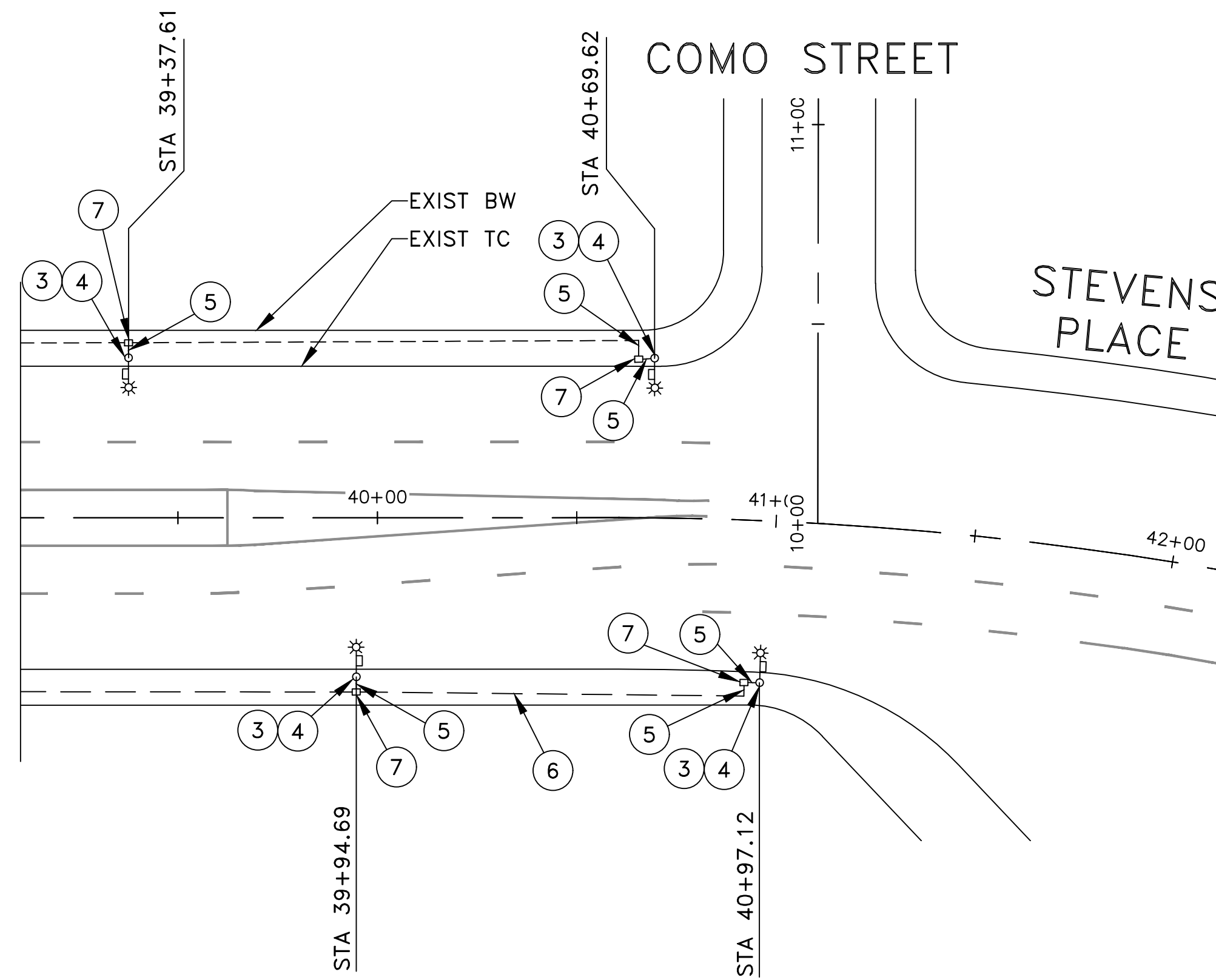
CITY OF COMMERCE PUBLIC WORKS AND ENGINEERING DEPT.	
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS STREET LIGHTING PLAN (STA 12+00 - 30+07.50)	
SHEET 15 OF 41 SHEETS	DRWG NO. SL-1

SEE SHEET 15 OF 41
MATCHLINE B-B



MATCHLINE C-C
SEE BELOW LEFT

SEE ABOVE RIGHT
MATCHLINE C-C



CONSTRUCTION NOTES

1. REMOVE AND SALVAGE EXISTING LUMINAIRE AND MAST ARM. REPLACE WITH PROPOSED 112W LED LUMINAIRE WITH 8' MAST ARM.
2. REMOVE AND SALVAGE EXISTING LUMINAIRE AND MAST ARM. REPLACE WITH PROPOSED 112W LED TRAFFIC SIGNAL LUMINAIRE WITH 8' MAST ARM.
3. REMOVE AND SALVAGE EXISTING STREET LIGHT POLE AND LUMINAIRE AND REPLACE WITH PROPOSED STREET LIGHT POLE AND 112W LED LUMINAIRE WITH 8' MAST ARM.
4. FURNISH AND INSTALL FOUNDATION PER DETAIL ON SHEET 17 OF 41.
5. INSTALL 2" SCHEDULE 80 PVC CONDUIT WITH 2 #8 CONDUCTORS AND 1 #8 GROUND.
6. INSTALL 3" SCHEDULE 80 PVC CONDUIT WITH 2 #8 CONDUCTORS AND 1 #8 GROUND.
7. INSTALL NO. 5 PULL BOX. PULLBOX COVER SHALL STATE "LIGHTING".
8. FURNISH AND INSTALL TYPE III-CF SERVICE ENCLOSURE PER CLATTRANS STD. PLANS, WITH THE FOLLOWING CIRCUIT BREAKERS:
30A LIGHTING
15A LIGHTING CONTROL
15A LIGHTING TEST SWITCH
9. FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT TO SCE HANDHOLE FOR SERVICE CONNECTION. CONTRACTOR SHALL COORDINATE WITH SCE FOR HANDHOLE LOCATION.
10. REMOVE AND SALVAGE EXISTING STREET LIGHT POLE.

GENERAL NOTES

1. THE STREET LIGHT POLES SHALL BE PER THE SPECIFICATIONS OF THIS PROJECT.
2. SCE SHALL PROVIDE CONNECTION FOR PROPOSED STREET LIGHTING. CONTRACTOR SHALL COORDINATE WITH SCE REPRESENTATIVE.
3. FIVE FOOT CLEARANCE TO BE MAINTAINED FROM THE FIRE HYDRANT.
4. FOUR FOOT CLEARANCE TO BE MAINTAINED FROM TOP OF SLOPE AT COMMERCIAL DRIVEWAY, 2 FOOT CLEARANCE FROM RESIDENTIAL DRIVEWAY.
5. THE STREET LIGHT POLES SHALL BE AMERON TYPE 1-C1 SERIES OR AGENCY APPROVED EQUAL.
6. THE LOCATION OF A STREET LIGHT MAY ONLY BE ADJUSTED UP TO 10 FEET, ONLY TO AVOID AN OBSTRUCTION SUCH AS A CATCH BASIN, DRIVEWAY, ETC. ANY DEVIATION EXCEEDING 10 FEET MUST HAVE THE APPROVAL OF THE COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORK, STREET LIGHTING SECTION. IF SUCH APPROVAL IS NOT OBTAINED, THE LIGHT PROPOSED BY THIS PLAN WILL NOT BE ACCEPTED BY COUNTY LIGHTING MAINTENANCE DISTRICT.
7. ALL STREET LIGHT WIRING SHALL BE UNDERGROUND.
8. ALL LIGHTS SHOWN ON THIS LAYOUT SHALL BE ENERGIZED PRIOR TO ACCEPTANCE BY THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORK.

LEGEND

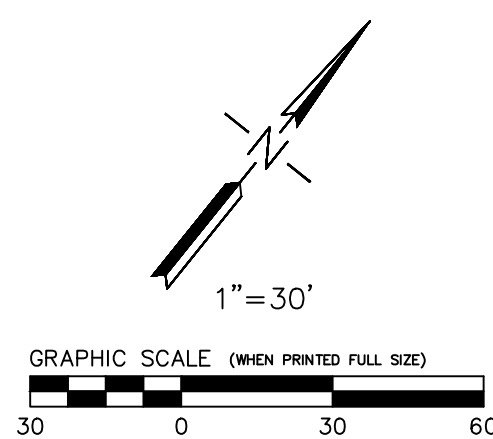
	EXISTING LUMINAIRE
	PROPOSED LUMINAIRE
	NEW CONDUIT
	EXISTING PULLBOX
	PROPOSED PULLBOX
	SIGNALIZED INTERSECTION
	BW BACK OF WALK
	EXIST EXISTING
	PROP PROPOSED
	TC TOP OF CURB



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William G. Zimmerman
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EXP 06-30-2020

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TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPT.

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS
STREET LIGHTING PLAN
(STA 30+07.50 - 42+00)

SHEET 16 OF 41 SHEETS DRWG NO. SL-2

GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO APPLICABLE PROVISIONS OF THE CALIFORNIA BUILDING CODE – 2013 EDITION.
- 2. NO REVISION SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 3. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND REPORT ANY ERRORS, OMISSIONS, OR POSSIBLE DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

DESIGN CRITERIA

- 1. SOIL DESIGN CRITERIA:
 - COEFFICIENT OF FRICTION = N/A
 - PASSIVE PRESSURE = 130 PSF
- 2. GOVERNING DESIGN CODES:
 - CALIFORNIA BUILDING CODE (2013 EDITION)
 - ASCE/SEI 7-05, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES," AMERICAN SOCIETY OF CIVIL ENGINEERS.
 - ACI 318-05, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN CONCRETE INSTITUTE
- 3. WIND LOADS (W) PER AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (6th EDITION)
- 4. SEISMIC LOADS (E) PER AASHTO AND SDC 1.7-APRIL 2013
 - PEAK ROCK ACCELERATION = 0.558g

FOUNDATION

- 1. FOUNDATION EXCAVATIONS SHALL BE VISUALLY OBSERVED BY THE SOIL ENGINEER FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SOILS REPORT PRIOR TO PLACEMENT OF REINFORCING STEEL OR CONCRETE. A CERTIFICATION FOR COMPACTION OF BACKFILL FROM THE GEOTECHNICAL ENGINEER SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO FINAL SIGN OFF AND ACCEPTANCE OF RETAINING WALL.
- 2. ALL FOOTINGS SHALL BE EMBEDDED 24" MINIMUM INTO COMPETENT UNDISTURBED NATURAL SOIL OR CERTIFIED COMPACTED FILL, UNLESS NOTED OTHERWISE IN SOILS REPORT.
- 3. SOILS BENEATH FOOTINGS SHALL BE PREMOISTENED AND COMPACTED TO MINIMUM REQUIREMENTS PRIOR TO PLACING CONCRETE.

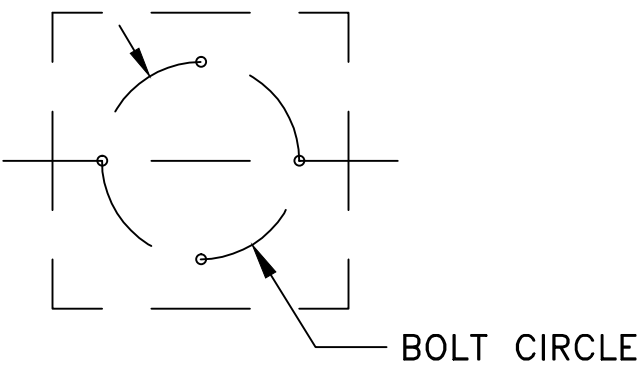
REINFORCING STEEL

- 1. DIMENSIONS LOCATING REINFORCING BARS ARE CLEAR AND DENOTE CONCRETE COVERAGE TO MAIN STEEL. UNLESS NOTED OTHERWISE, COVERAGE SHALL BE AS FOLLOWS:
 - CONCRETE PLACED AGAINST EARTH (NOT FORMED) 3"
 - FORMED CONCRETE AGAINST EARTH 3"
 - WALLS, ABOVE GRADE, EXPOSED TO WEATHER 3"
- 2. REINFORCING STEEL SHALL BE DEFORMED BARS, CONFORMING TO ASTM A615, LATEST REVISION AND SHALL BE GRADE 60.
- 3. REINFORCING IS TO BE SECURELY TIED IN PLACE PRIOR TO CASTING CONCRETE OR PLACING GROUT.
- 4. SUPPORT REINFORCING OFF FORMS WITH STEEL CHAIRS. SUPPORT REINFORCING OFF GRADE WITH DENSE CONCRETE BLOCKS. NO BRICK OR POROUS CONCRETE WILL BE PERMITTED TO SUPPORT REINFORCING.
- 5. VERTICAL REINFORCEMENT TO BE HELD IN PLACE AT TOP, BOTTOM AND INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.

CONCRETE

- 1. CONCRETE SHALL HAVE A 28-DAY ULTIMATE COMPRESSIVE STRENGTH AS SHOWN FOR THE CORRESPONDING LOCATION LISTED IN THE SCHEDULE BELOW. DESIGN STRENGTH EQUAL TO 2500 PSI, THEREFORE SPECIAL INSPECTION NOT REQUIRED.
- | LOCATION | STRENGTH (PSI) | DENSITY (PCF) | MAX WATER/CEMENT RATIO | CEMENT TYPE |
|--------------|----------------|---------------|------------------------|-------------|
| ALL CONCRETE | 2500 | 150 | 0.5 | TYPE II |
- 2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150.
 - 3. AGGREGATE SHALL CONFORM TO ASTM C-33 FOR NORMAL WEIGHT CONCRETE.
 - 4. READY MIX CONCRETE SHALL BE MISED AND DELIVERED IN ACCORDANCE WITH ASTM C-94.
 - 5. ADMIXTURES SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER.
 - 6. CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST ACI CODE (ACI 318) AND DETAILING MANUAL (ACI 315) UNLESS OTHERWISE DETAILED OR NOTED ON DRAWINGS.

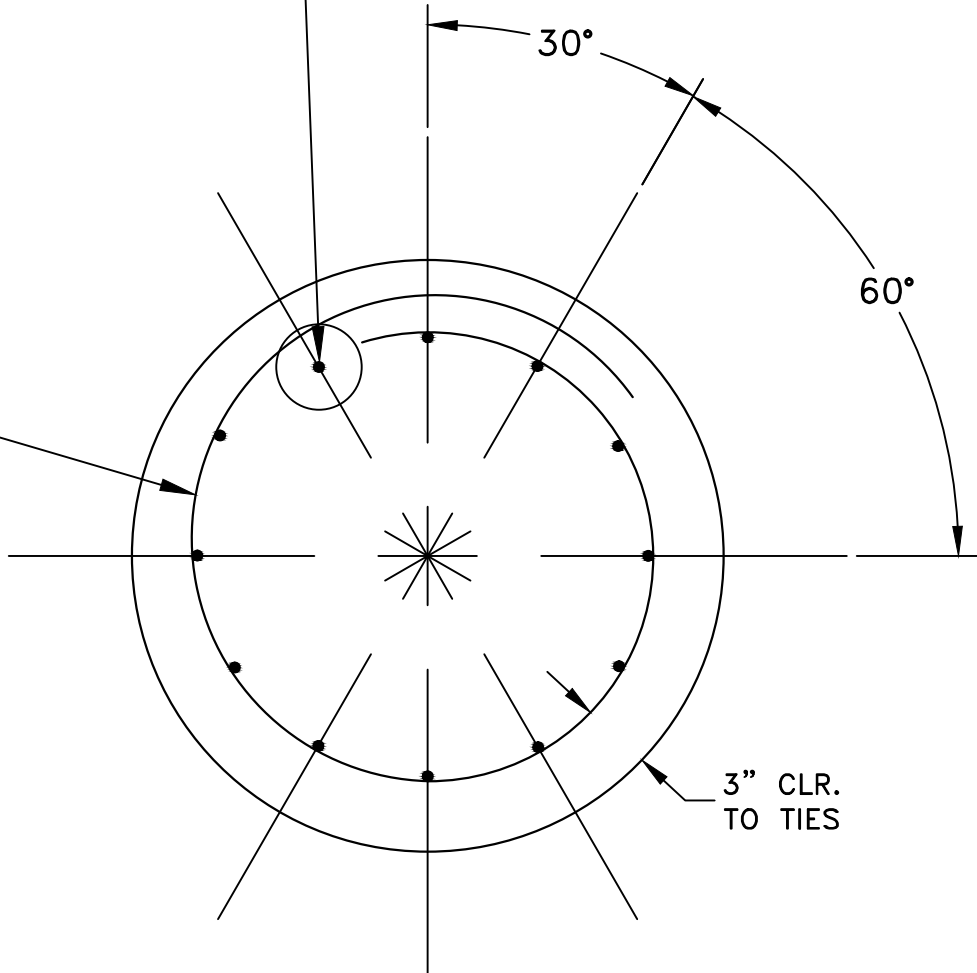
*BASEPLATE, ANCHOR BOLTS, AND BOLT CIRCLE SIZES DETERMINED BY POLE MANUFACTURER.



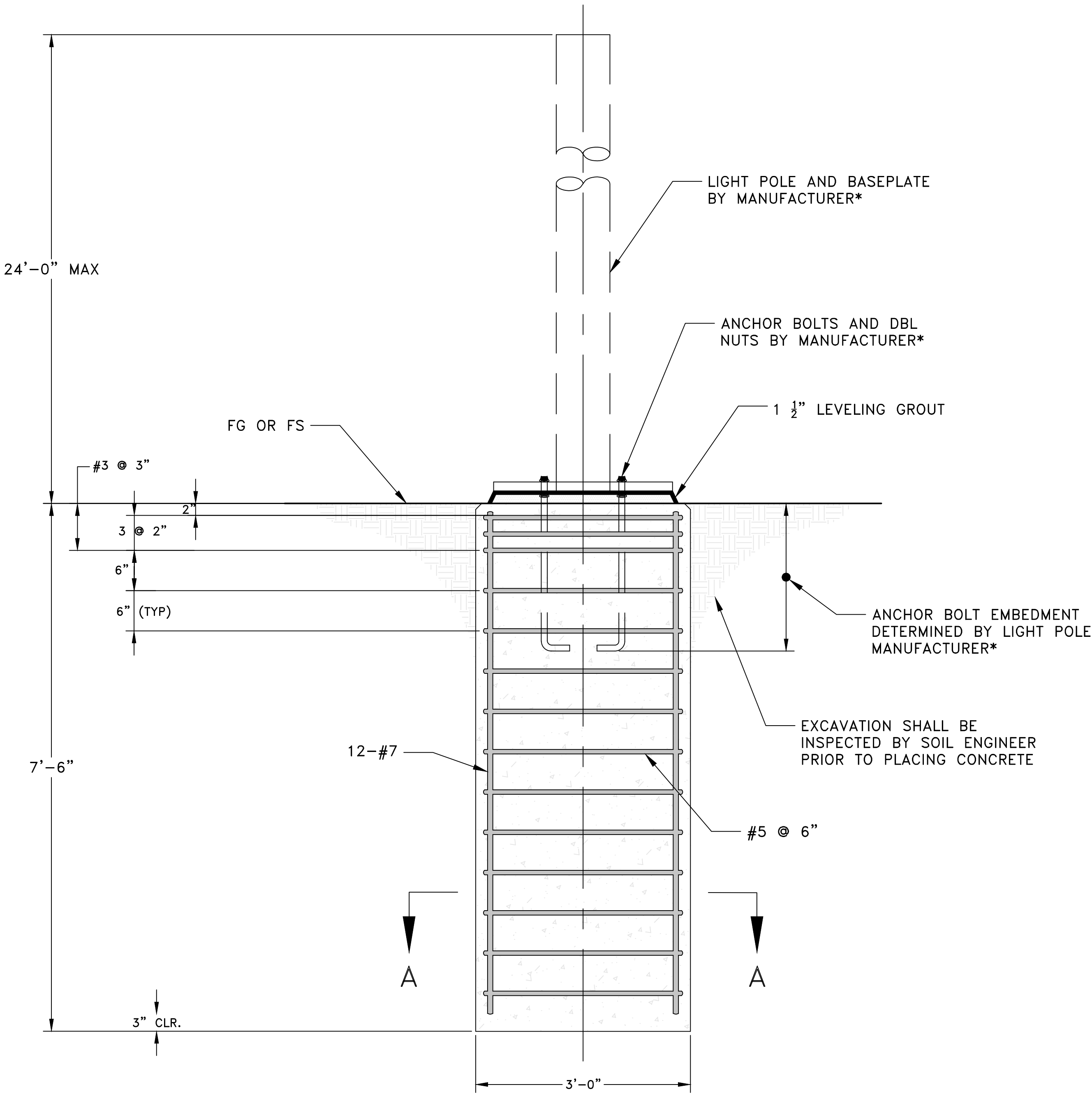
CONTRACTOR TO SUBMIT SHOP DRAWING INCLUDING POLE, BASE PLATE, ANCHOR BOLTS, EQUIPMENT BOX AND CONDUIT TO ENGINEER FOR REVIEW PRIOR TO ORDERING, FABRICATING OR CONSTRUCTING FOOTING SHOWN HEREON.

12-#7 (EQUALLY SPACED) VERTICAL REINFORCING

#5 @ 6" TIES W/12" LONG LAP

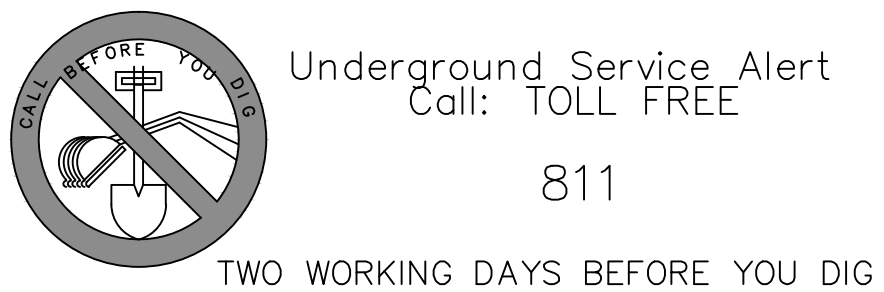


SECTION A-A

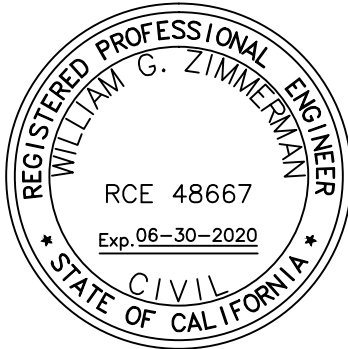


LIGHT POLE FOOTING

NOT TO SCALE



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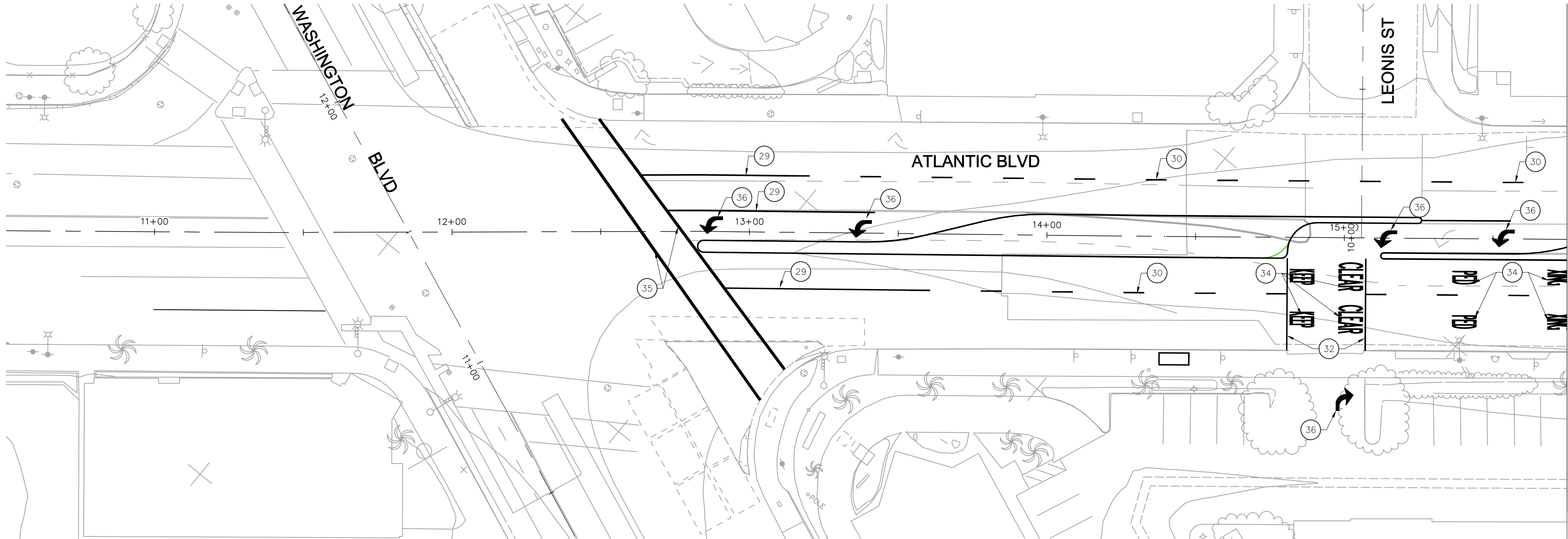
TITLE

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CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPT.

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS
STREET LIGHTING PLAN FOUNDATION DETAIL

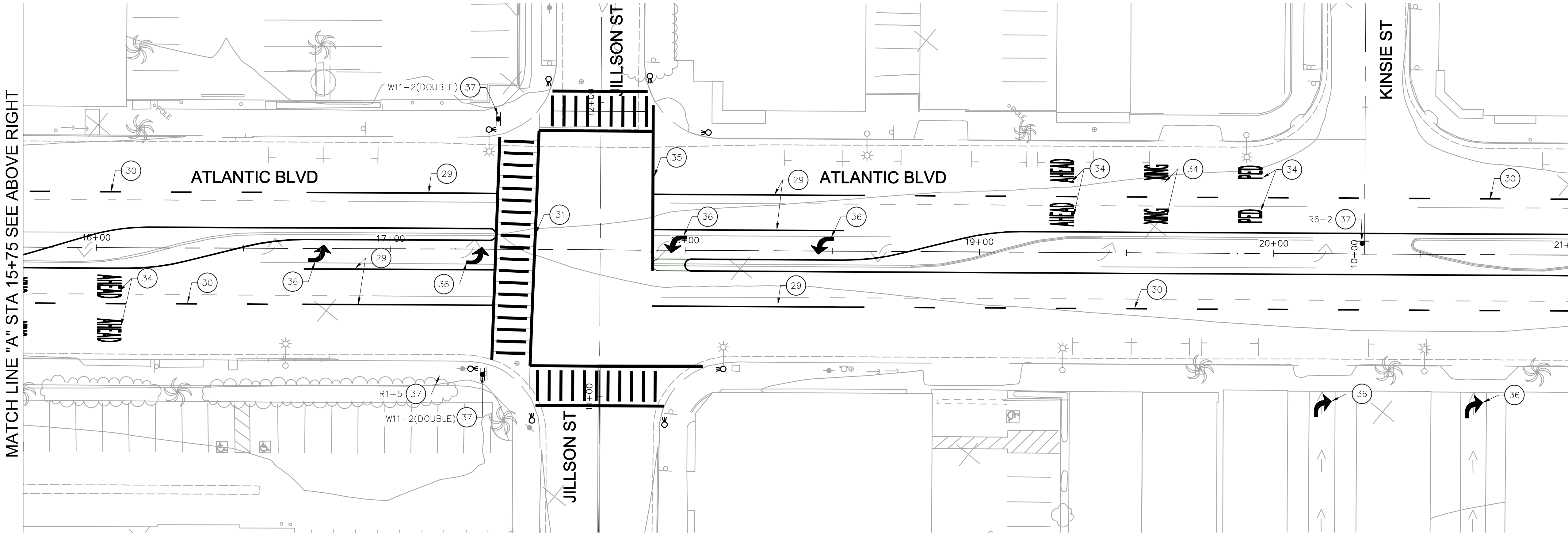
SHEET 17 OF 41 SHEETS DRWG NO. SL-3




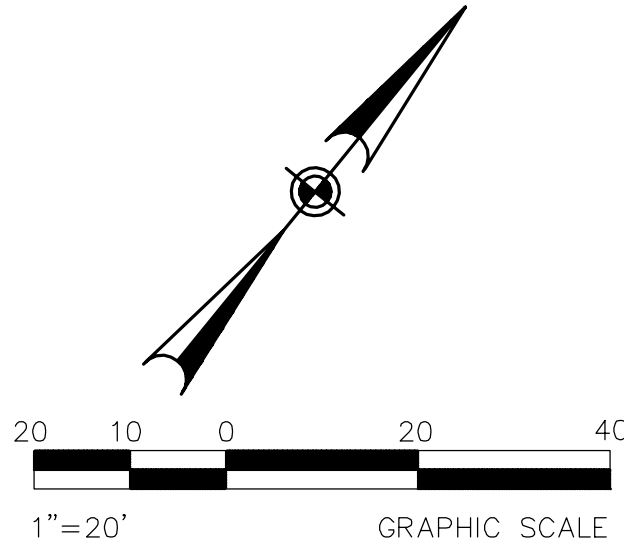
- CONSTRUCTION NOTES:**
- 29 INSTALL WHITE SOLID LANE LINE WITH PAVEMENT MARKERS
 - 30 INSTALL TRAFFIC STRIPE PER DETAIL 8 OF SPPWC STD PLAN NO. 170
 - 31 INSTALL CROSSWALK PER SPPWC STD PLAN NO. 174
 - 32 INSTALL SOLID WHITE LINE
 - 33 INSTALL YIELD LINE PER CALTRANS STD PLAN A24E
 - 34 INSTALL PAVEMENT MARKING PER SPPWC STD PLAN NO. 171
 - 35 INSTALL 12" WIDE WHITE LIMIT LINE (STOP LINE) PER CALTRANS STD PLAN A24E
 - 36 INSTALL PAVEMENT MARKING TYPE II ARROW PER SPPWC STD PLAN NO. 171
 - 37 INSTALL TRAFFIC SIGN AS SHOWN ON PLAN

- LEGEND:**
- EXISTING ROADSIDE SIGN (ONE POST)
 - NEW ROADSIDE SIGN (ONE POST)

- NOTES:**
- ALL SIGNING AND STRIPING SHALL CONFORM TO THE 2014 CALIFORNIA MUTCD.
 - CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS AND STRIPING WHICH CONFLICTS WITH THIS PLAN PRIOR TO NEW STRIPING INSTALLATION.
 - ALL PAVEMENT STRIPING AND MARKING SHALL BE THERMOPLASTIC PER CALTRANS STANDARD PLANS.
 - PRIOR TO FINAL INSTALLATION CONTRACTOR SHALL RECEIVE A FINAL APPROVAL FROM THE CITY ENGINEER.

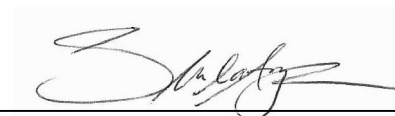


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PREPARED BY:
 SHEILA AMPARO, R.C.E. C78003
8/14/2018 DATE

ELECTRONICALLY APPROVED BY:
PUBLIC WORKS & DEV. SERVICES DIRECTOR DATE
ELECTRONICALLY CHECKED BY:
TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

SIGNING AND STRIPING PLAN
FROM WASHINGTON BLVD TO STA 21+00

SHEET 20 OF 43 SHEETS DRWG NO. PD-1

MATCH LINE "A" STA 21+00 SEE SHEET DM-1

MATCH LINE "A" STA 26+25 SEE ABOVE RIGHT

MATCH LINE "A" STA 26+25 SEE BELOW LEFT

MATCH LINE "A" STA 31+50 SEE SHEET DM-3

CONSTRUCTION NOTES:

- 29 INSTALL WHITE SOLID LANE LINE WITH PAVEMENT MARKERS
30 INSTALL TRAFFIC STRIPE PER DETAIL 8 OF SPPWC STD PLAN NO. 170
31 INSTALL CROSSWALK PER SPPWC STD PLAN NO. 174
32 INSTALL SOLID WHITE LINE
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LEGEND:

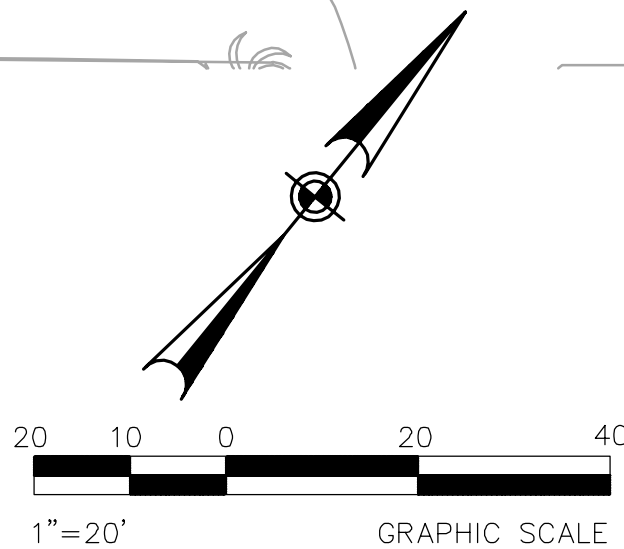
- EXISTING ROADSIDE SIGN (ONE POST)
NEW ROADSIDE SIGN (ONE POST)

NOTES:

1. ALL SIGNING AND STRIPING SHALL CONFORM TO THE 2014 CALIFORNIA MUTCD.
2. CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS AND STRIPING WHICH CONFLICTS WITH THIS PLAN PRIOR TO NEW STRIPING INSTALLATION.
3. ALL PAVEMENT STRIPING AND MARKING SHALL BE THERMOPLASTIC PER CALTRANS STANDARD PLANS.
4. PRIOR TO FINAL INSTALLATION CONTRACTOR SHALL RECEIVE A FINAL APPROVAL FROM THE CITY ENGINEER.



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CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

SIGNING AND STRIPING PLAN
FROM STA 21+00 TO STA 31+50

SHEET 21 OF 43 SHEETS DRWG NO. PD-2

MATCH LINE "A" STA 31+50 SEE SHEET DM-2

MATCH LINE "A" STA 31+75 SEE ABOVE RIGHT

MATCH LINE "A" STA 36+75 SEE BELOW LEFT

CONSTRUCTION NOTES:

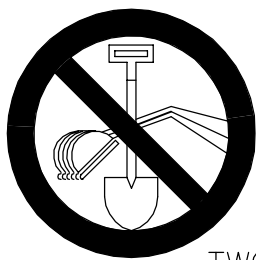
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- 35 INSTALL 12" WIDE WHITE LIMIT LINE (STOP LINE) PER CALTRANS STD PLAN A24E
- 36 INSTALL PAVEMENT MARKING TYPE II ARROW PER SPPWC STD PLAN NO. 171
- 37 INSTALL TRAFFIC SIGN AS SHOWN ON PLAN

LEGEND:

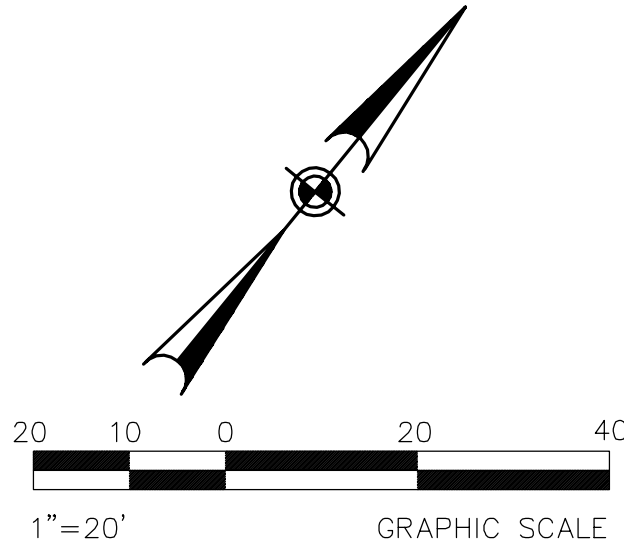
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- NEW ROADSIDE SIGN (ONE POST)

NOTES:

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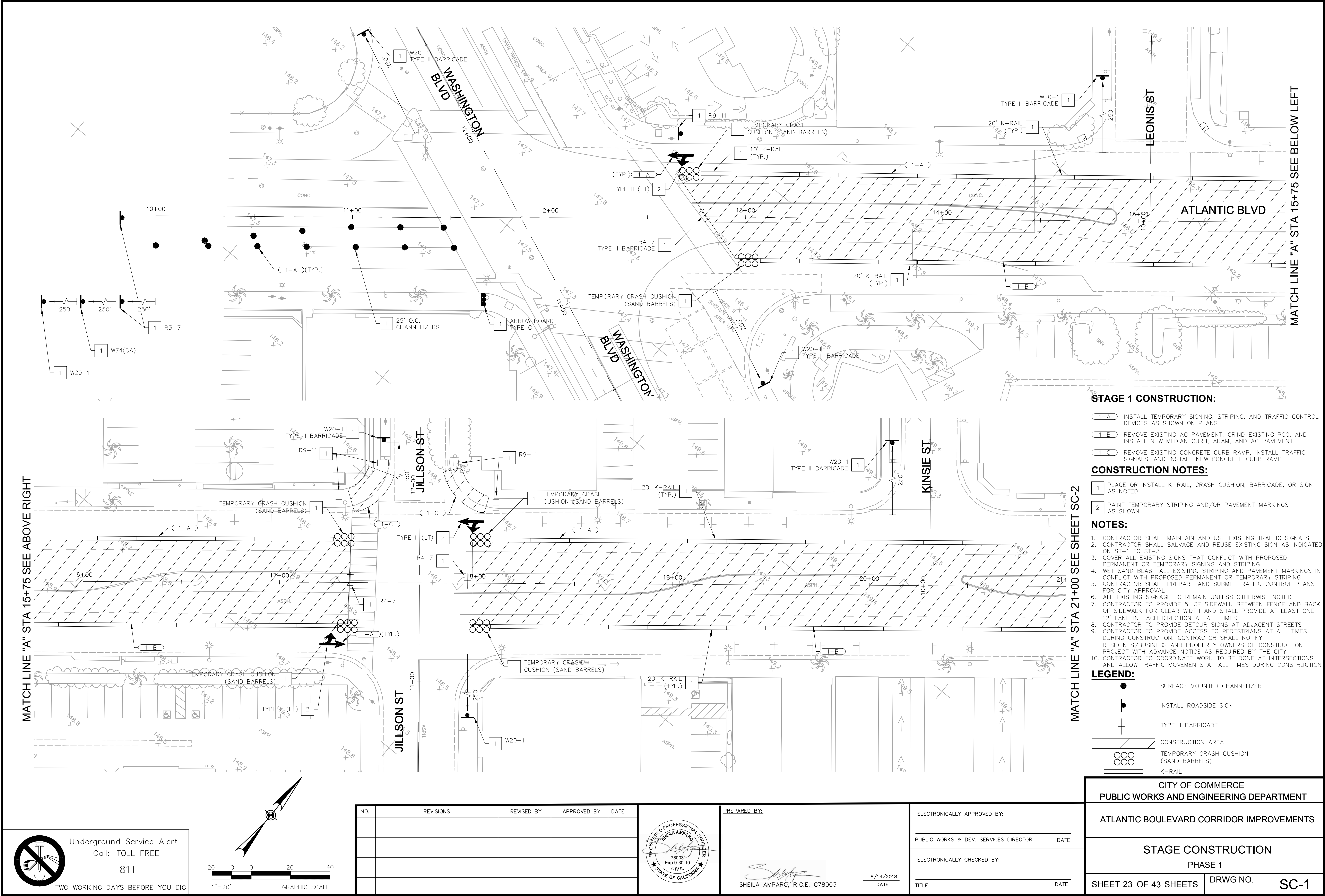
TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

SIGNING AND STRIPING PLAN
FROM STA 31+50 TO COMO ST

SHEET 22 OF 43 SHEETS DRWG NO. PD-3




MATCH LINE "A" STA 15+75 SEE ABOVE RIGHT

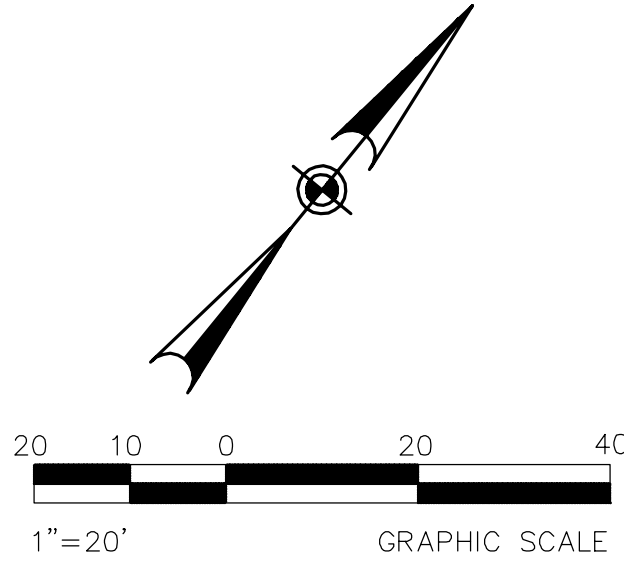
MATCH LINE "A" STA 21+00 SEE SHEET SC-2

- STAGE 1 CONSTRUCTION:**
- 1-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
 - 1-B REMOVE EXISTING AC PAVEMENT, GRIND EXISTING PCC, AND INSTALL NEW MEDIAN CURB, ARAM, AND AC PAVEMENT
 - 1-C REMOVE EXISTING CONCRETE CURB RAMP, INSTALL TRAFFIC SIGNALS, AND INSTALL NEW CONCRETE CURB RAMP
- CONSTRUCTION NOTES:**
- 1 PLACE OR INSTALL K-RAIL, CRASH CUSHION, BARRICADE, OR SIGN AS NOTED
 - 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN
- NOTES:**
- CONTRACTOR SHALL MAINTAIN AND USE EXISTING TRAFFIC SIGNALS
 - CONTRACTOR SHALL SALVAGE AND REUSE EXISTING SIGN AS INDICATED ON ST-1 TO ST-3
 - COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY SIGNING AND STRIPING
 - WET SAND BLAST ALL EXISTING STRIPING AND PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY STRIPING
 - CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS FOR CITY APPROVAL
 - ALL EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE NOTED
 - CONTRACTOR TO PROVIDE 5' OF SIDEWALK BETWEEN FENCE AND BACK OF SIDEWALK FOR CLEAR WIDTH AND SHALL PROVIDE AT LEAST ONE 12' LANE IN EACH DIRECTION AT ALL TIMES
 - CONTRACTOR TO PROVIDE DETOUR SIGNS AT ADJACENT STREETS
 - CONTRACTOR TO PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY RESIDENTS/BUSINESS AND PROPERTY OWNERS OF CONSTRUCTION PROJECT WITH ADVANCE NOTICE AS REQUIRED BY THE CITY
 - CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENTS AT ALL TIMES DURING CONSTRUCTION

- LEGEND:**
- SURFACE MOUNTED CHANNELIZER
 - INSTALL ROADSIDE SIGN
 - TYPE II BARRICADE
 - CONSTRUCTION AREA
 - TEMPORARY CRASH CUSHION (SAND BARRELS)
 - K-RAIL




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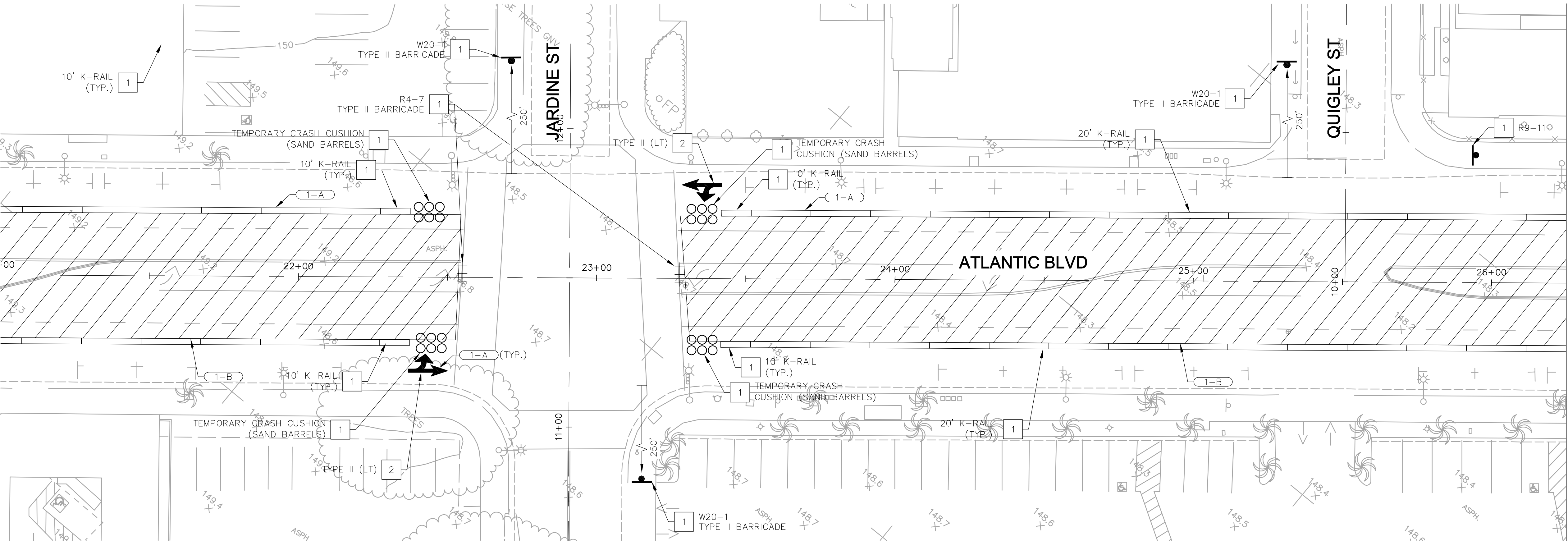
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

STAGE CONSTRUCTION
PHASE 1

SHEET 23 OF 43 SHEETS DRWG NO. SC-1

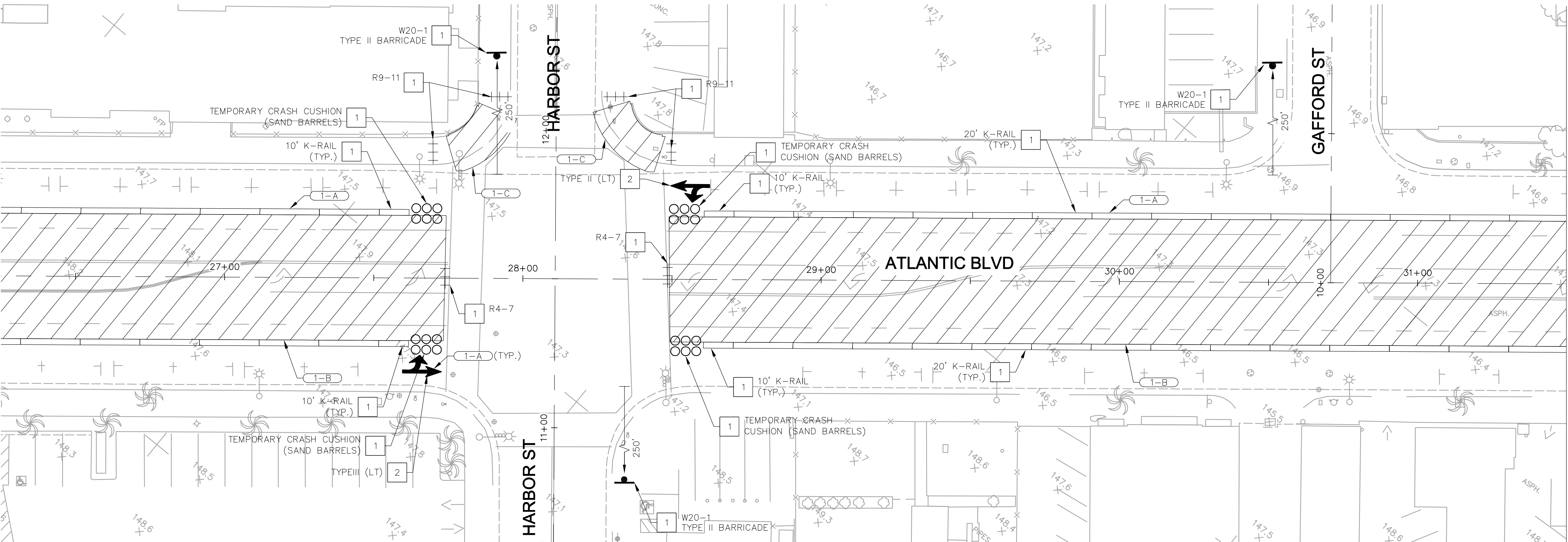
MATCH LINE "A" STA 21+00 SEE SHEET SC-1

MATCH LINE "A" STA 26+25 SEE BELOW LEFT



MATCH LINE "A" STA 26+25 SEE ABOVE RIGHT

MATCH LINE "A" STA 31+50 SEE SHEET SC-3



STAGE 1 CONSTRUCTION:

- 1-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
- 1-B REMOVE EXISTING AC PAVEMENT, GRIND EXISTING PCC, AND INSTALL NEW MEDIAN CURB, ARAM, AND AC PAVEMENT
- 1-C REMOVE EXISTING CONCRETE CURB RAMP AND INSTALL NEW CONCRETE CURB RAMP

CONSTRUCTION NOTES:

- 1 PLACE OR INSTALL K-RAIL, CRASH CUSHION, BARRICADE, OR SIGN AS NOTED
- 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN

NOTES:

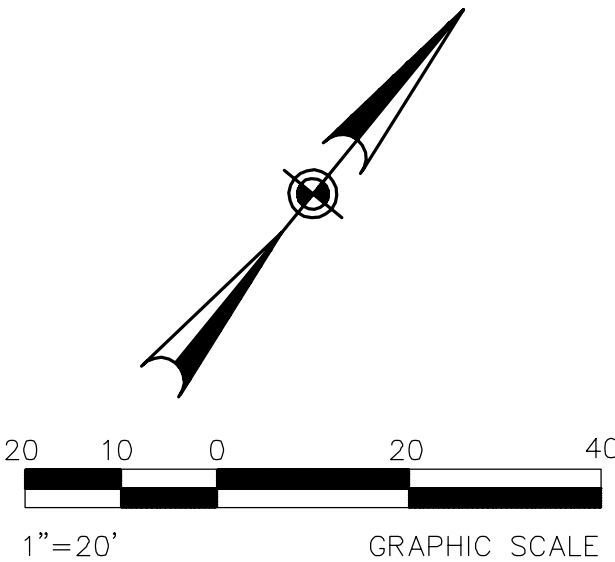
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- CONTRACTOR SHALL SALVAGE AND REUSE EXISTING SIGN AS INDICATED ON ST-1 TO ST-3
- COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY SIGNING AND STRIPING
- WET SAND BLAST ALL EXISTING STRIPING AND PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY STRIPING
- CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS FOR CITY APPROVAL
- ALL EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE NOTED
- CONTRACTOR TO PROVIDE 5' OF SIDEWALK BETWEEN FENCE AND BACK OF SIDEWALK FOR CLEAR WIDTH AND SHALL PROVIDE AT LEAST ONE 12' LANE IN EACH DIRECTION AT ALL TIMES
- CONTRACTOR TO PROVIDE DETOUR SIGNS AT ADJACENT STREETS
- CONTRACTOR TO PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY RESIDENTS/BUSINESS AND PROPERTY OWNERS OF CONSTRUCTION PROJECT WITH ADVANCE NOTICE AS REQUIRED BY THE CITY
- CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENTS AT ALL TIMES DURING CONSTRUCTION

LEGEND:

- SURFACE MOUNTED CHANNELIZER
- INSTALL ROADSIDE SIGN
- TYPE II BARRICADE
- CONSTRUCTION AREA
- TEMPORARY CRASH CUSHION (SAND BARRELS)
- K-RAIL



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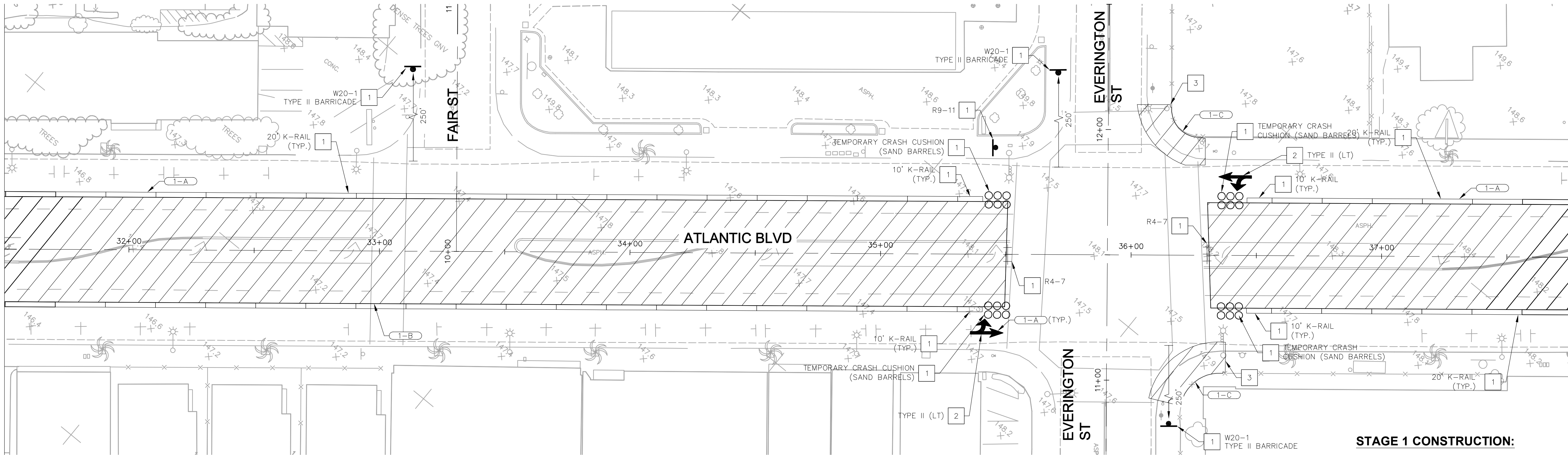
CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

STAGE CONSTRUCTION
PHASE 1

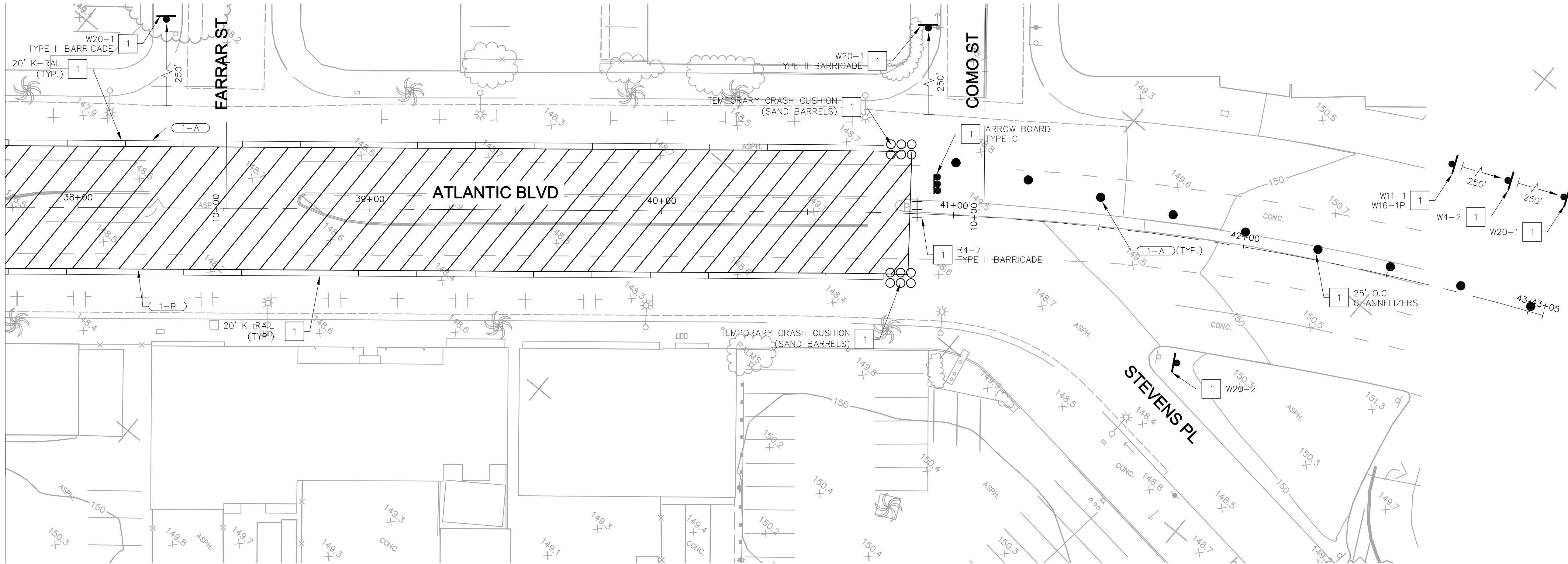
SHEET 24 OF 43 SHEETS DRWG NO. SC-2

MATCH LINE "A" STA 31+50 SEE SHEET SC-2



MATCH LINE "A" STA 36+75 SEE BELOW LEFT

MATCH LINE "A" STA 31+75 SEE ABOVE RIGHT



STAGE 1 CONSTRUCTION:

- 1-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
- 1-B REMOVE EXISTING AC PAVEMENT, GRIND EXISTING PCC, AND INSTALL NEW MEDIAN CURB, ARAM, AND AC PAVEMENT
- 1-C REMOVE EXISTING CONCRETE CURB RAMP AND INSTALL NEW CONCRETE CURB RAMP

CONSTRUCTION NOTES:

- 1 PLACE OR INSTALL K-RAIL, CRASH CUSHION, BARRICADE, OR SIGN AS NOTED
- 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN
- 3 CONSTRUCTION WORK TO BE DONE DURING NIGHT TIME HOURS ONLY

NOTES:

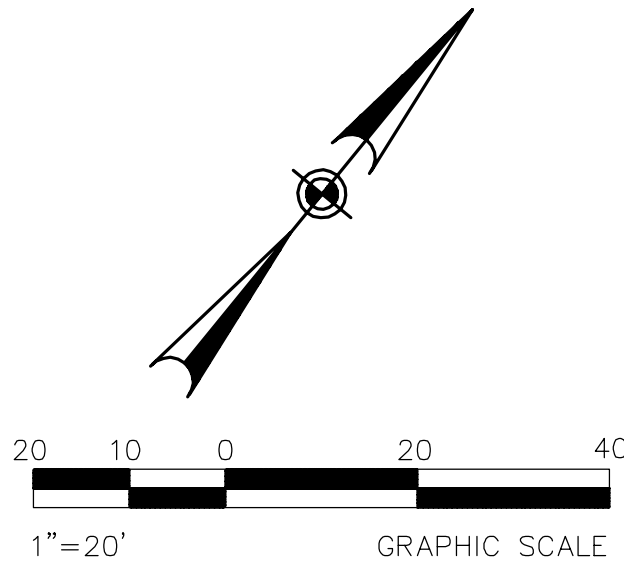
- CONTRACTOR SHALL MAINTAIN AND USE EXISTING TRAFFIC SIGNALS
- CONTRACTOR SHALL SALVAGE AND REUSE EXISTING SIGN AS INDICATED ON ST-1 TO ST-3
- COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY SIGNING AND STRIPING
- WET SAND BLAST ALL EXISTING STRIPING AND PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY STRIPING
- CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS FOR CITY APPROVAL
- ALL EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE NOTED
- CONTRACTOR TO PROVIDE 5' OF SIDEWALK BETWEEN FENCE AND BACK OF SIDEWALK FOR CLEAR WIDTH AND SHALL PROVIDE AT LEAST ONE 12' LANE IN EACH DIRECTION AT ALL TIMES
- CONTRACTOR TO PROVIDE DETOUR SIGNS AT ADJACENT STREETS
- CONTRACTOR TO PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY RESIDENTS/BUSINESS AND PROPERTY OWNERS OF CONSTRUCTION PROJECT WITH ADVANCE NOTICE AS REQUIRED BY THE CITY
- CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENT AT ALL TIMES DURING CONSTRUCTION

LEGEND:

- SURFACE MOUNTED CHANNELIZER
- INSTALL ROADSIDE SIGN
- TYPE II BARRICADE
- ARROW BOARD
- CONSTRUCTION AREA
- TEMPORARY CRASH CUSHION (SAND BARRELS)
- K-RAIL



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PREPARED BY:

SHEILA AMPARO, R.C.E. C78003

8/14/2018
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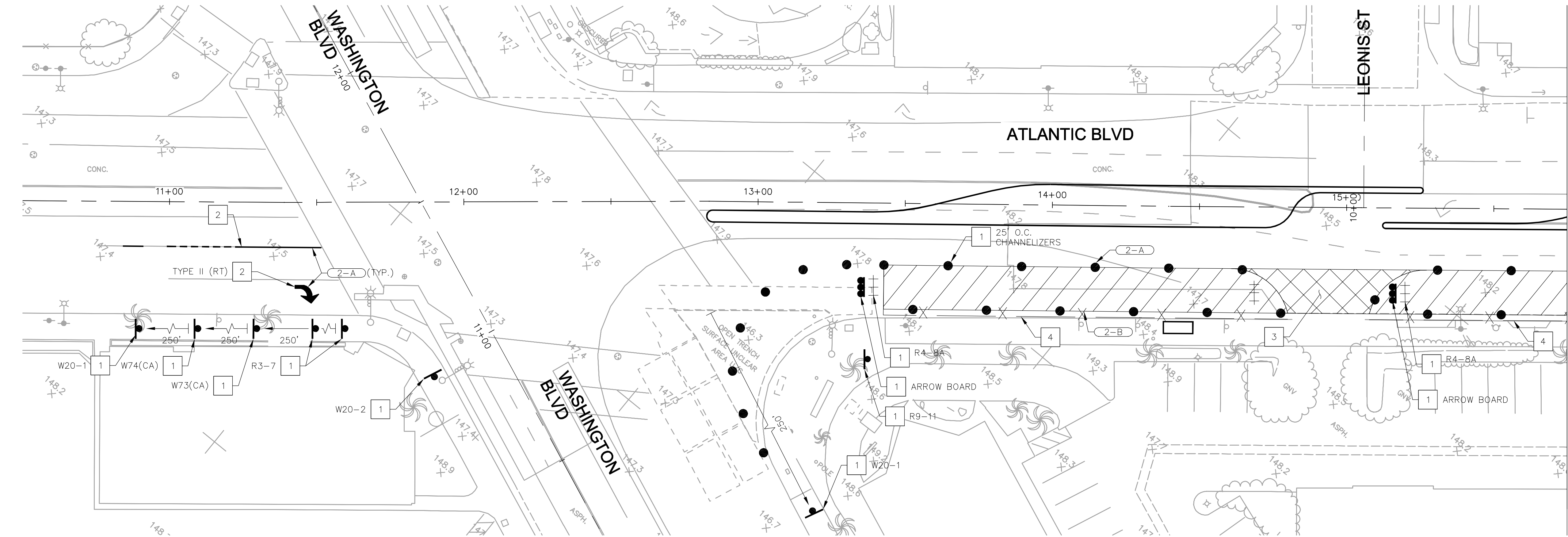
TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

STAGE CONSTRUCTION
PHASE 1

SHEET 25 OF 43 SHEETS DRWG NO. SC-3



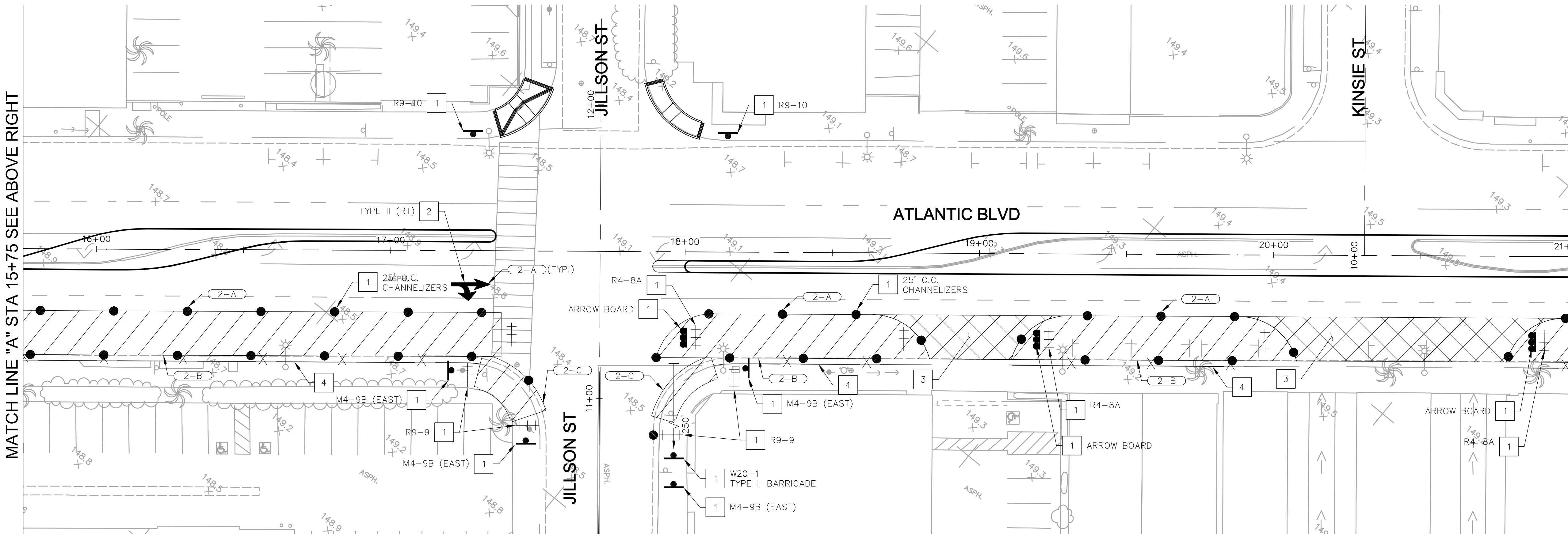
MATCH LINE "A" STA 15+75 SEE BELOW LEFT

- STAGE 2 CONSTRUCTION:**
- 2-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
 - 2-B REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE AND CONSTRUCT NEW AC PAVEMENT AND CRUSHED AGGREGATE BASE. REMOVE EXISTING CURB RAMP AND SIDEWALK AND CONSTRUCT NEW CURB RAMP, TRUNCATED DOMES AND SIDEWALK
 - 2-C REMOVE EXISTING CONCRETE CURB RAMP AND INSTALL NEW CONCRETE CURB RAMP

- CONSTRUCTION NOTES:**
- 1 PLACE OR INSTALL PORTABLE DELINEATOR, BARRICADE, OR SIGN AS NOTED
 - 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN
 - 3 CONSTRUCTION WORK TO BE DONE DURING NIGHT TIME HOURS ONLY
 - 4 INSTALL 6-FOOT CHAIN LINK FENCE WITH GREEN SCREEN (FABRIC MESH) PER SPWPW DWG NO 600-3


- NOTES:**
- CONTRACTOR SHALL MAINTAIN AND USE EXISTING TRAFFIC SIGNALS
 - CONTRACTOR SHALL SALVAGE AND REUSE EXISTING SIGN AS INDICATED ON ST-1 TO ST-3
 - COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY SIGNING AND STRIPING
 - WET SAND BLAST ALL EXISTING STRIPING AND PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY STRIPING
 - CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS FOR CITY APPROVAL
 - METAL PLATES SHALL BE PLACED OVER DRIVEWAYS TO MAINTAIN DRIVEWAY ACCESS DURING DAY TIME HOURS
 - ALL EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY RESIDENTS/BUSINESS AND PROPERTY OWNERS OF CONSTRUCTION PROJECT WITH ADVANCE NOTICE AS REQUIRED BY THE CITY.
 - CONTRACTOR TO PROVIDE 5' OF SIDEWALK BETWEEN FENCE AND BACK OF SIDEWALK FOR CLEAR WIDTH AND SHALL PROVIDE AT LEAST ONE 12' LANE IN EACH DIRECTION AT ALL TIMES
 - CONTRACTOR TO PROVIDE DETOUR SIGNS AT ADJACENT STREETS
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 - CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENTS AT ALL TIMES DURING CONSTRUCTION

- LEGEND:**
- SURFACE MOUNTED CHANNELIZER
 - INSTALL ROADSIDE SIGN
 - TYPE II BARRICADE
 - CONSTRUCTION AREA
 - NIGHT TIME CONSTRUCTION AREA
 - TEMPORARY CRASH CUSHION (SAND BARRELS)
 - K-RAIL
 - CHAIN LINK FENCE

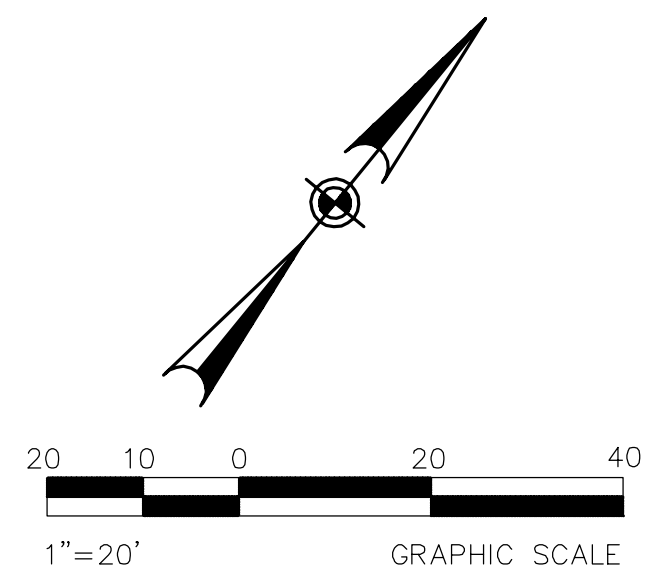


MATCH LINE "A" STA 15+75 SEE ABOVE RIGHT

MATCH LINE "A" STA 21+00 SEE SHEET SC-5



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CITY OF COMMERCE PUBLIC WORKS AND ENGINEERING DEPARTMENT	
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
STAGE CONSTRUCTION PHASE 2	
SHEET 26 OF 43 SHEETS	DRWG NO. SC-4

MATCH LINE "A" STA 21+00 SEE SHEET SC-4

MATCH LINE "A" STA 26+25 SEE ABOVE RIGHT

MATCH LINE "A" STA 26+25 SEE BELOW LEFT

MATCH LINE "A" STA 31+50 SEE SHEET SC-6

STAGE 2 CONSTRUCTION:

- 2-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
- 2-B REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE AND AND CONSTRUCT NEW AC PAVEMENT AND CRUSHED AGGREGATE BASE. REMOVE EXISTING CURB RAMP AND SIDEWALK AND CONSTRUCT NEW CURB RAMP, TRUNCATED DOMES, AND SIDEWALK
- 2-C REMOVE EXISTING CONCRETE CURB RAMP AND INSTALL NEW CONCRETE CURB RAMP

CONSTRUCTION NOTES:

- 1 PLACE OR INSTALL PORTABLE DELINEATOR, BARRICADE, OR SIGN AS NOTED
- 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN
- 3 CONSTRUCTION WORK TO BE DONE DURING NIGHT TIME HOURS ONLY
- 4 INSTALL 6-FOOT CHAIN LINK FENCE WITH GREEN SCREEN (FABRIC MESH) PER SPPWC DWG NO 600-3

NOTES:

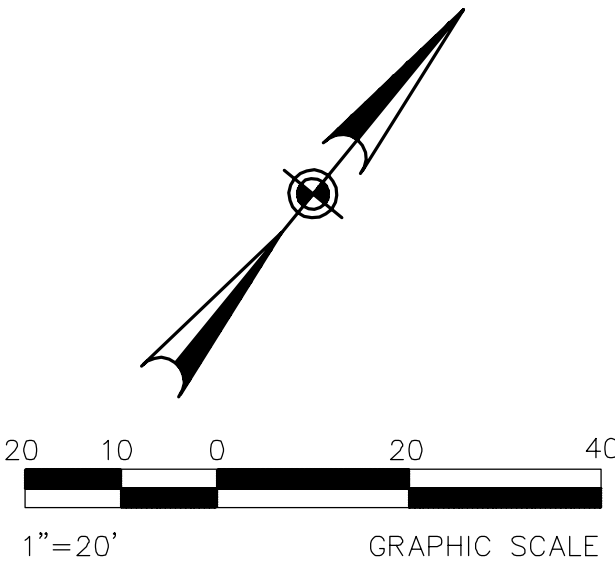
1. CONTRACTOR SHALL MAINTAIN AND USE EXISTING TRAFFIC SIGNALS
2. CONTRACTOR SHALL SALVAGE AND REUSE EXISTING SIGN AS INDICATED ON ST-1 TO ST-3
3. COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY SIGNING AND STRIPING
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6. METAL PLATES SHALL BE PLACED OVER DRIVEWAYS TO MAINTAIN DRIVEWAY ACCESS DURING DAY TIME HOURS
7. ALL EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE NOTED
8. CONTRACTOR TO PROVIDE 5' OF SIDEWALK BETWEEN FENCE AND BACK OF SIDEWALK FOR CLEAR WIDTH AND SHALL PROVIDE AT LEAST ONE 12' LANE IN EACH DIRECTION AT ALL TIMES
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11. CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENTS AT ALL TIMES DURING CONSTRUCTION

LEGEND:

- SURFACE MOUNTED CHANNELIZER
- ▬ INSTALL ROADSIDE SIGN
- ▬ TYPE II BARRICADE
- ▬ CONSTRUCTION AREA
- ▬ NIGHT TIME CONSTRUCTION AREA
- ○ ○ ○ TEMPORARY CRASH CUSHION (SAND BARRELS)
- ▬ K-RAIL
- X — CHAIN LINK FENCE



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PUBLIC WORKS AND ENGINEERING DEPARTMENT

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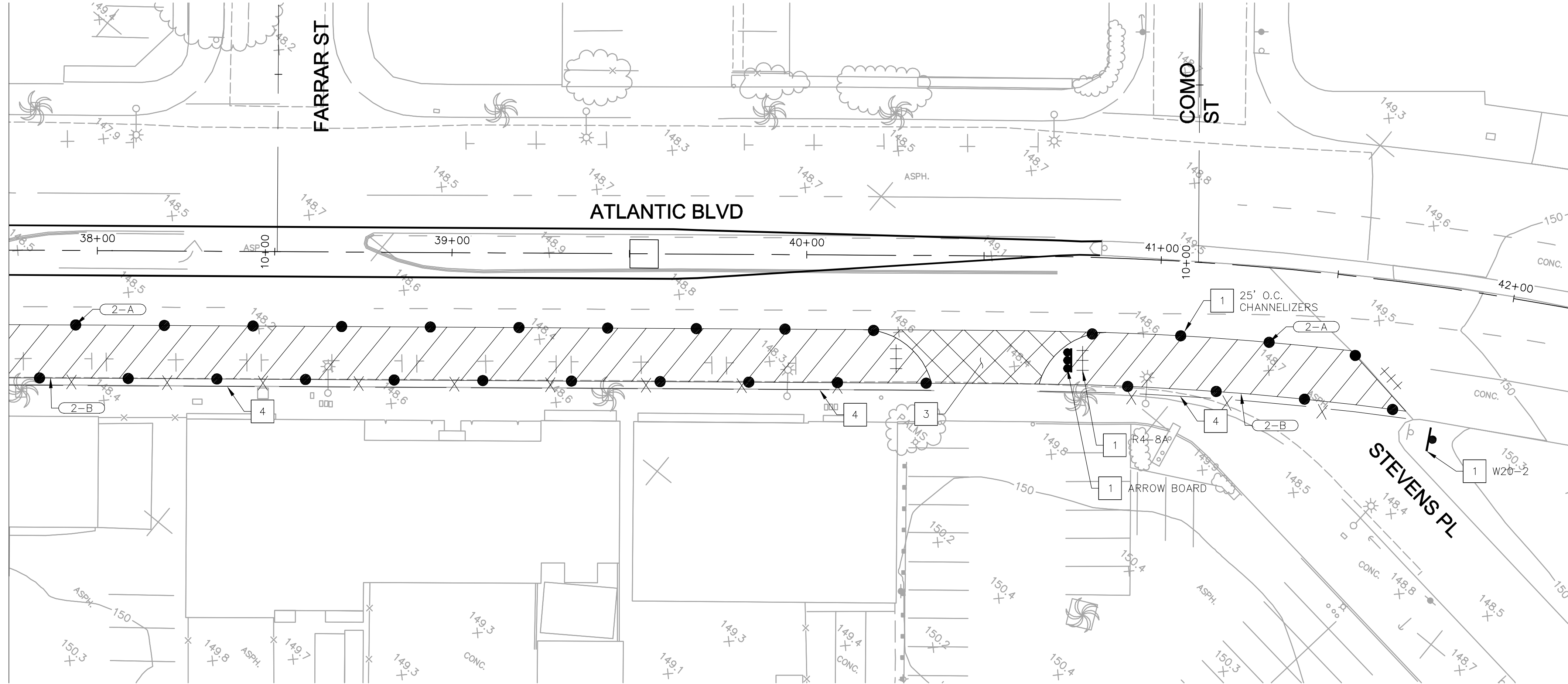
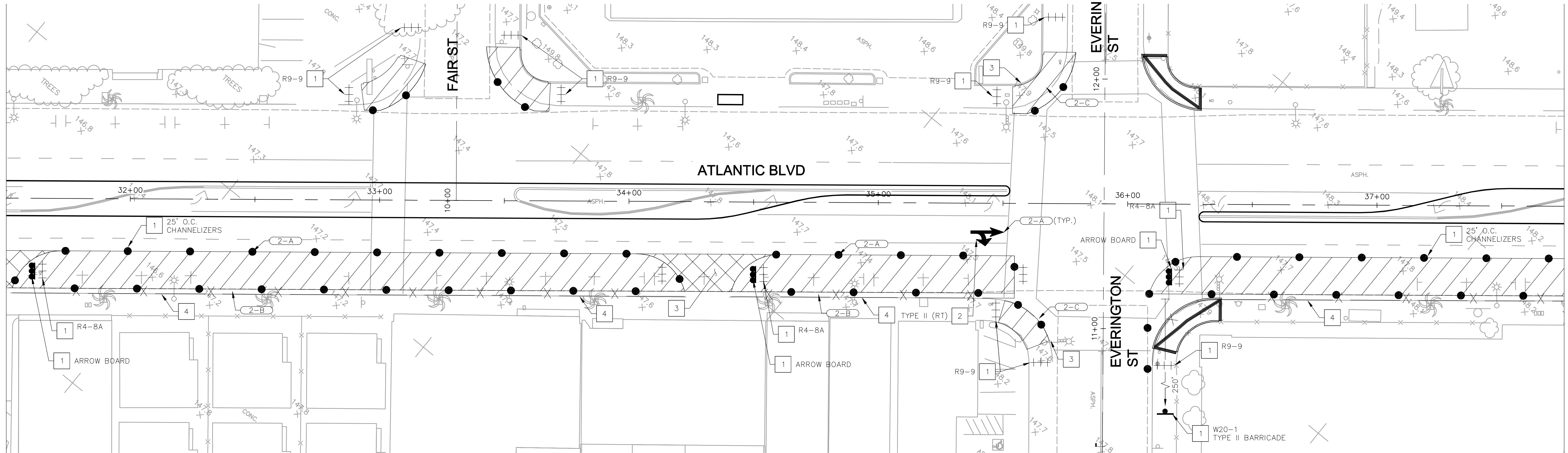
STAGE CONSTRUCTION
PHASE 2

SHEET 27 OF 43 SHEETS DRWG NO. SC-5

MATCH LINE "A" STA 31+50 SEE SHEET SC-5

MATCH LINE "A" STA 31+75 SEE ABOVE RIGHT

MATCH LINE "A" STA 36+75 SEE BELOW LEFT



STAGE 2 CONSTRUCTION:

- 2-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
- 2-B REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE AND AND CONSTRUCT NEW AC PAVEMENT AND CRUSHED AGGREGATE BASE. REMOVE EXISTING CURB RAMPS AND SIDEWALK AND CONSTRUCT NEW CURB RAMPS, TRUNCATED DOMES AND SIDEWALK
- 2-C REMOVE EXISTING CONCRETE CURB RAMP AND INSTALL NEW CONCRETE CURB RAMP

CONSTRUCTION NOTES:

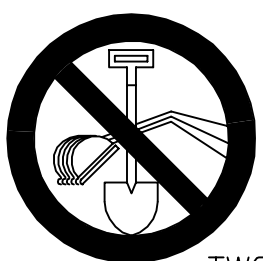
- 1 PLACE OR INSTALL PORTABLE DELINEATOR, BARRICADE, OR SIGN AS NOTED
- 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN
- 3 CONSTRUCTION WORK TO BE DONE DURING NIGHT TIME HOURS ONLY
- 4 INSTALL 6-FOOT CHAIN LINK FENCE WITH GREEN SCREEN (FABRIC MESH) PER SPPWC DWG NO 600-3

NOTES:

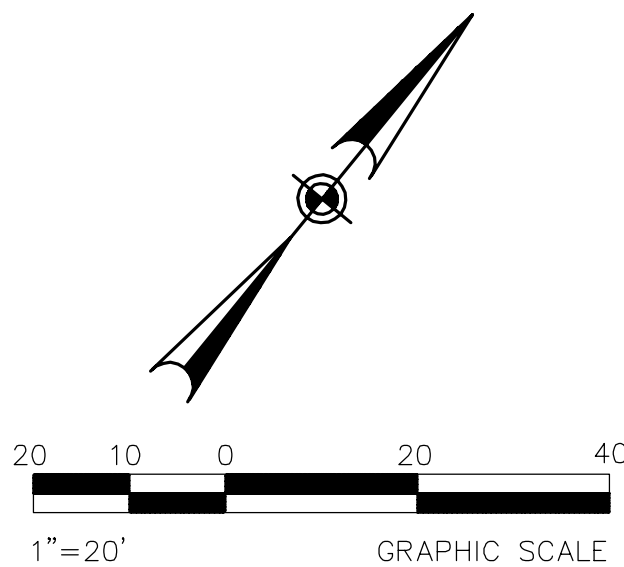
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- CONTRACTOR SHALL SALVAGE AND REUSE EXISTING SIGN AS INDICATED ON ST-1 TO ST-3
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- CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENTS AT ALL TIMES DURING CONSTRUCTION

LEGEND:

- SURFACE MOUNTED CHANNELIZER
- INSTALL ROADSIDE SIGN
- TYPE II BARRICADE
- CONSTRUCTION AREA
- NIGHT TIME CONSTRUCTION AREA
- TEMPORARY CRASH CUSHION (SAND BARRELS)
- K-RAIL
- CHAIN LINK FENCE



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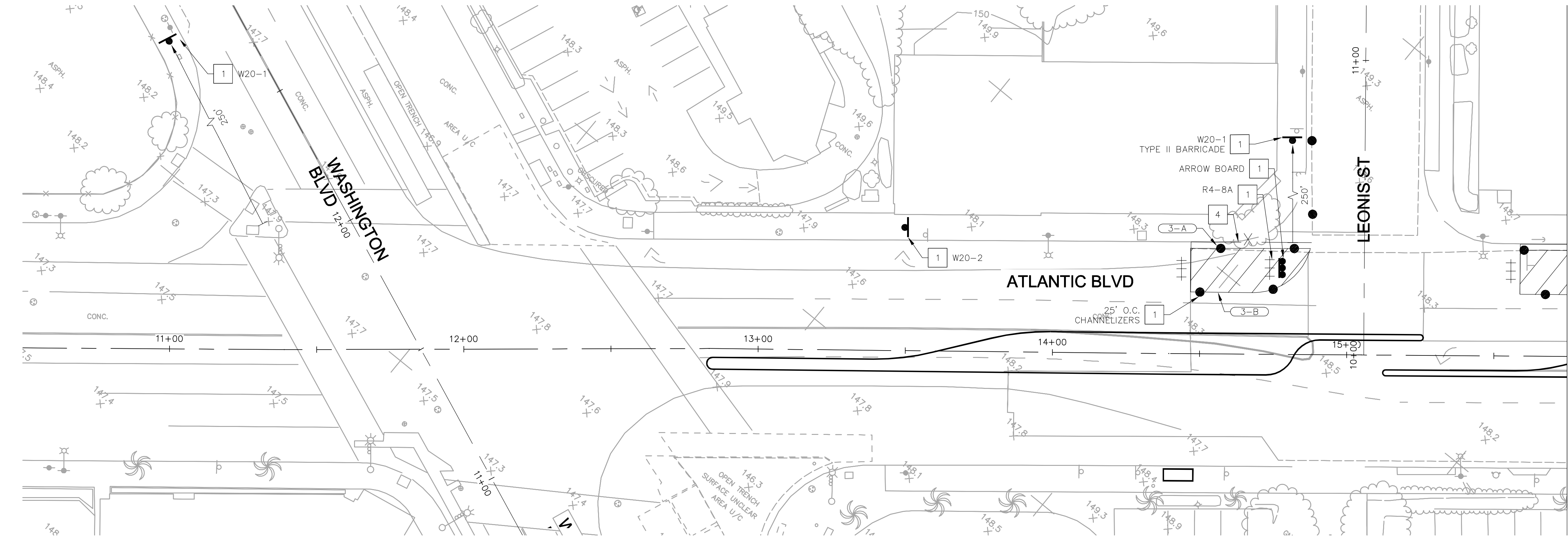
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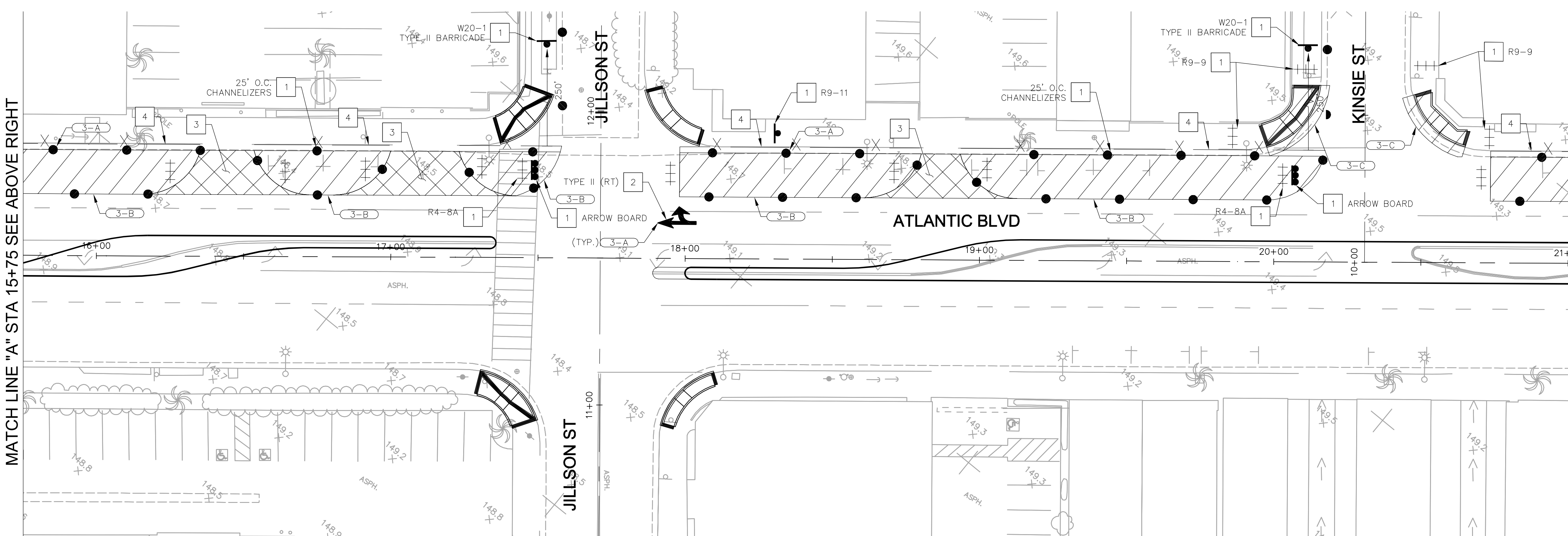
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

STAGE CONSTRUCTION
PHASE 2

SHEET 28 OF 43 SHEETS DRWG NO. SC-6



MATCH LINE "A" STA 15+75 SEE BELOW LEFT



MATCH LINE "A" STA 21+00 SEE SHEET SC-8

STAGE 3 CONSTRUCTION:

- 3-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
- 3-B REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE AND CONSTRUCT NEW AC PAVEMENT AND CRUSHED AGGREGATE BASE. REMOVE EXISTING CURB RAMPS AND SIDEWALK AND CONSTRUCT NEW CURB RAMPS, TRUNCATED DOMES AND SIDEWALK
- 3-C REMOVE EXISTING CONCRETE CURB RAMP AND INSTALL NEW CONCRETE CURB RAMP

CONSTRUCTION NOTES:


- 1 PLACE OR INSTALL PORTABLE DELINEATOR, BARRICADE, OR SIGN AS NOTED
- 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN
- 3 CONSTRUCTION WORK TO BE DONE DURING NIGHT TIME HOURS ONLY
- 4 INSTALL 6-FOOT CHAIN LINK FENCE WITH GREEN SCREEN (FABRIC MESH) PER SPPWC DWG NO 600-3

NOTES:

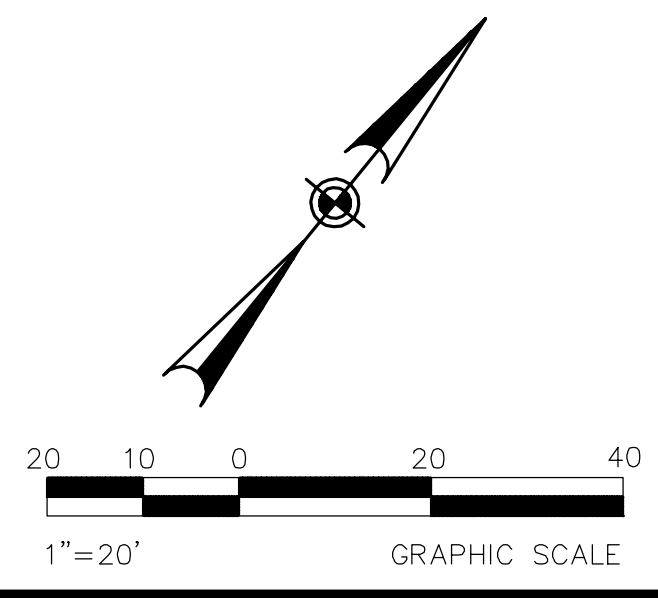
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- 2. CONTRACTOR SHALL SALVAGE AND REUSE EXISTING SIGN AS INDICATED ON ST-1 TO ST-3
- 3. COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY SIGNING AND STRIPING
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- 5. CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS FOR CITY APPROVAL
- 6. METAL PLATES SHALL BE PLACED OVER DRIVEWAYS TO MAINTAIN DRIVEWAY ACCESS DURING DAY TIME HOURS
- 7. ALL EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE NOTED
- 8. CONTRACTOR TO PROVIDE 5' OF SIDEWALK BETWEEN FENCE AND BACK OF SIDEWALK FOR CLEAR WIDTH AND SHALL PROVIDE AT LEAST ONE 12' IN EACH DIRECTION AT ALL TIMES
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- 11. CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENTS AT ALL TIMES DURING CONSTRUCTION

LEGEND:

- SURFACE MOUNTED CHANNELIZER
- INSTALL ROADSIDE SIGN
- TYPE II BARRICADE
- CONSTRUCTION AREA
- NIGHT TIME CONSTRUCTION AREA
- TEMPORARY CRASH CUSHION (SAND BARRELS)
- K-RAIL
- CHAIN LINK FENCE

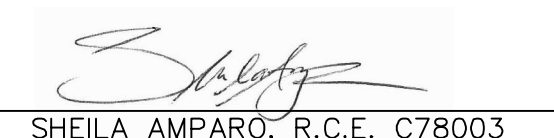


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ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
STAGE CONSTRUCTION PHASE 3	
SHEET 29 OF 43 SHEETS	DRWG NO. SC-7

MATCH LINE "A" STA 21+00 SEE SHEET SC-7

MATCH LINE "A" STA 26+25 SEE ABOVE RIGHT

MATCH LINE "A" STA 26+25 SEE BELOW LEFT

MATCH LINE "A" STA 31+50 SEE SHEET SC-9

STAGE 3 CONSTRUCTION:

- 3-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
- 3-B REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE AND AND CONSTRUCT NEW AC PAVEMENT AND CRUSHED AGGREGATE BASE. REMOVE EXISTING CURB RAMPS, TRUNCATED DOMES AND SIDEWALK
- 3-C REMOVE EXISTING CONCRETE CURB RAMP AND INSTALL NEW CONCRETE CURB RAMP

CONSTRUCTION NOTES:

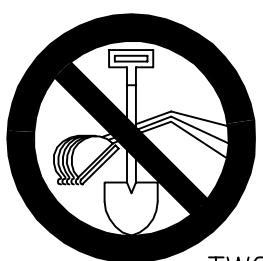
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- 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN
- 3 CONSTRUCTION WORK TO BE DONE DURING NIGHT TIME HOURS ONLY
- 4 INSTALL 6-FOOT CHAIN LINK FENCE WITH GREEN SCREEN (FABRIC MESH) PER SPPWC DWG NO 600-3

NOTES:

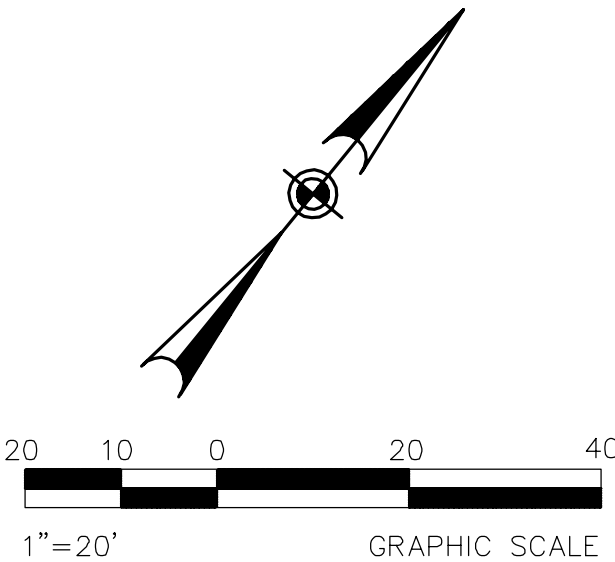
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- 11. CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENTS AT ALL TIMES DURING CONSTRUCTION

LEGEND:

- SURFACE MOUNTED CHANNELIZER
- ┆ INSTALL ROADSIDE SIGN
- ┆ TYPE II BARRICADE
- ▨ CONSTRUCTION AREA
- ▨ NIGHT TIME CONSTRUCTION AREA
- TEMPORARY CRASH CUSHION (SAND BARRELS)
- K-RAIL
- CHAIN LINK FENCE



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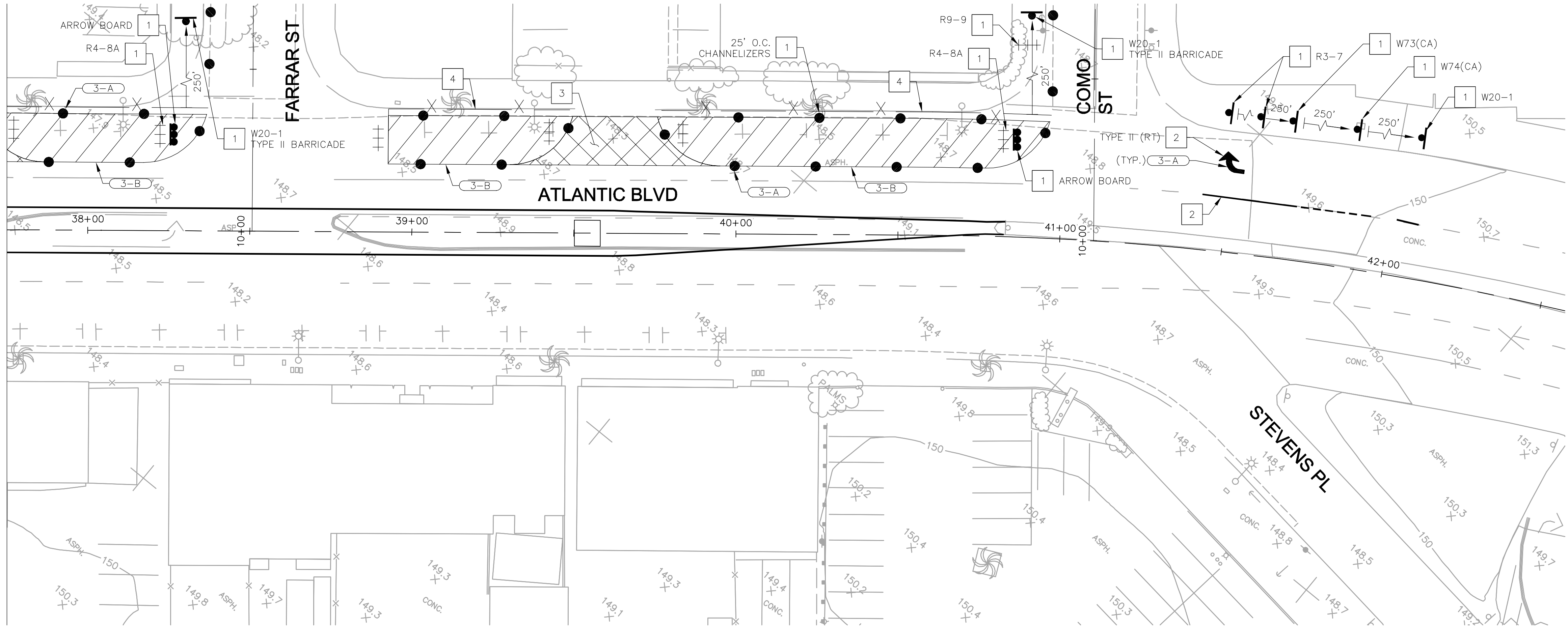
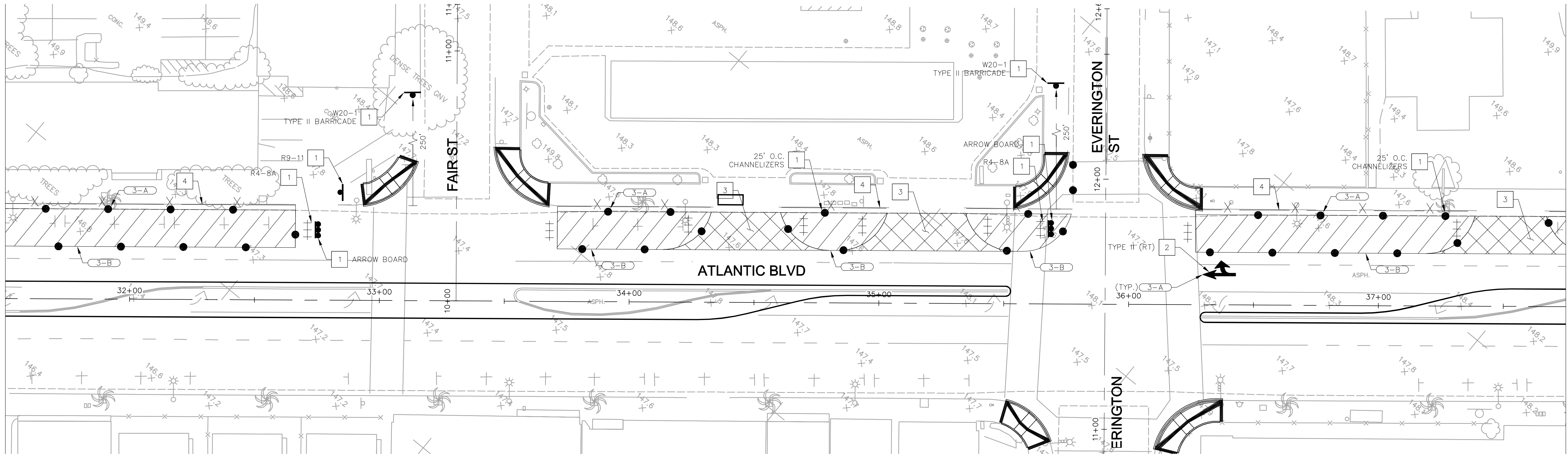
STAGE CONSTRUCTION
PHASE 3

SHEET 30 OF 43 SHEETS DRWG NO. SC-8

MATCH LINE "A" STA 31+50 SEE SHEET SC-8

MATCH LINE "A" STA 31+75 SEE ABOVE RIGHT

MATCH LINE "A" STA 36+75 SEE BELOW LEFT



STAGE 3 CONSTRUCTION:

- 3-A INSTALL TEMPORARY SIGNING, STRIPING, AND TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS
- 3-B REMOVE EXISTING AC PAVEMENT AND AGGREGATE BASE AND AND CONSTRUCT NEW AC PAVEMENT AND CRUSHED AGGREGATE BASE. REMOVE EXISTING CURB RAMPS AND SIDEWALK AND CONSTRUCT NEW CURB RAMPS, TRUNCATED DOMES AND SIDEWALK
- 3-C REMOVE EXISTING CONCRETE CURB RAMP AND INSTALL NEW CONCRETE CURB RAMP

CONSTRUCTION NOTES:

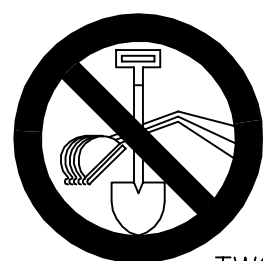
- 1 PLACE OR INSTALL PORTABLE DELINEATOR, BARRICADE, OR SIGN AS NOTED
- 2 PAINT TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN
- 3 CONSTRUCTION WORK TO BE DONE DURING NIGHT TIME HOURS ONLY
- 4 INSTALL 6-FOOT CHAIN LINK FENCE WITH GREEN SCREEN (FABRIC MESH) PER SPPWC DWG NO 600-3

NOTES:

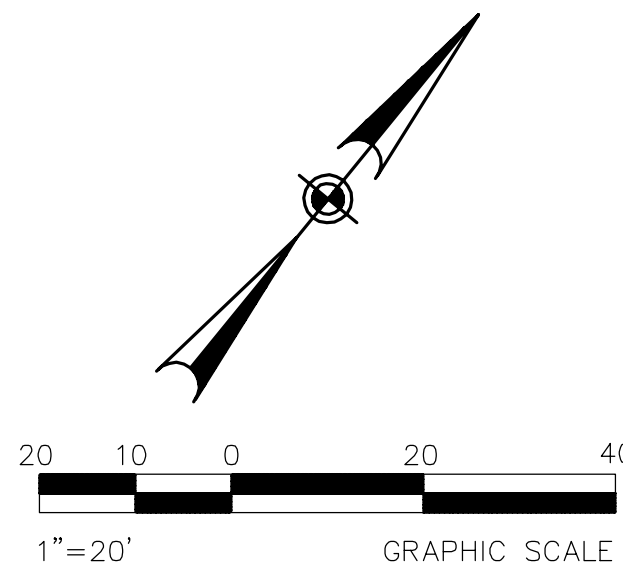
- 1. CONTRACTOR SHALL MAINTAIN AND USE EXISTING TRAFFIC SIGNALS
- 2. CONTRACTOR SHALL SALVAGE AND REUSE EXISTING SIGN AS INDICATED ON ST-1 TO ST-3
- 3. COVER ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED PERMANENT OR TEMPORARY SIGNING AND STRIPING
- 4. WET SAND BLAST ALL EXISTING STRIPING AND PAVEMENT MARKINGS IN CONFLIT WITH PROPOSED PERMANENT OR TEMPORARY STRIPING
- 5. CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS FOR CITY APPROVAL
- 6. METAL PLATES SHALL BE PLACED OVER DRIVEWAYS TO MAINTAIN DRIVEWAY ACCESS DURING DAY TIME HOURS
- 7. ALL EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE NOTED
- 8. CONTRACTOR TO PROVIDE 5' OF SIDEWALK BETWEEN FENCE AND BACK OF SIDEWALK FOR CLEAR WIDTH AND SHALL PROVIDE AT LEAST ONE 12 LANE IN EACH DIRECTION AT ALL TIMES
- 9. CONTRACTOR TO PROVIDE DETOUR SIGNS AT ADJACENT STREETS
- 10. CONTRACTOR TO PROVIDE ACCESS TO PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY RESIDENTS/BUSINESS AND PROPERTY OWNERS OF CONSTRUCTION PROJECT WITH ADVANCE NOTICE AS REQUIRED BY THE CITY
- 11. CONTRACTOR TO COORDINATE WORK TO BE DONE AT INTERSECTIONS AND ALLOW TRAFFIC MOVEMENTS AT ALL TIMES DURING CONSTRUCTION

LEGEND:

- SURFACE MOUNTED CHANNELIZER
- INSTALL ROADSIDE SIGN
- TYPE II BARRICADE
- CONSTRUCTION AREA
- NIGHT TIME CONSTRUCTION AREA
- TEMPORARY CRASH CUSHION (SAND BARRELS)
- K-RAIL
- CHAIN LINK FENCE



Underground Service Alert
Call: TOLL FREE
811
TWO WORKING DAYS BEFORE YOU DIG



NO.	REVISIONS	REVISED BY	APPROVED BY	DATE



PREPARED BY:

SHEILA AMPARO, R.C.E. C78003

8/14/2018
DATE

ELECTRONICALLY APPROVED BY:

PUBLIC WORKS & DEV. SERVICES DIRECTOR DATE

ELECTRONICALLY CHECKED BY:

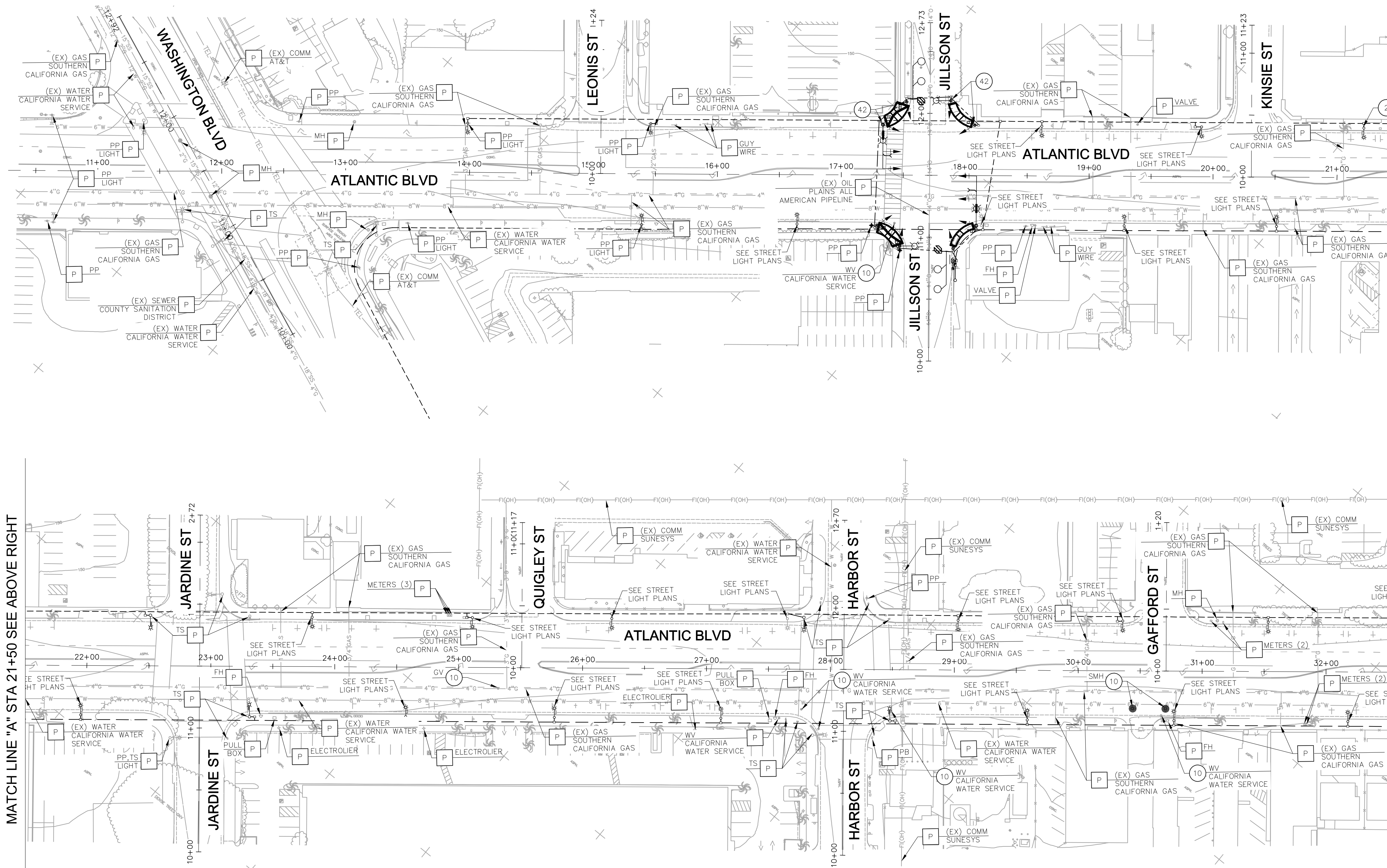
TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

STAGE CONSTRUCTION
PHASE 3

SHEET 31 OF 43 SHEETS DRWG NO. SC-9



CONSTRUCTION NOTES

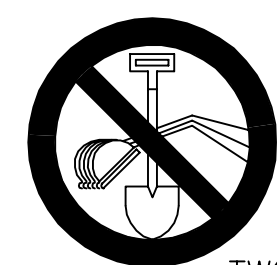
- P PROTECT IN PLACE (ITEM)
- 10 ADJUST TO GRADE
- 42 SEE TRAFFIC SIGNAL PLANS

LEGEND:

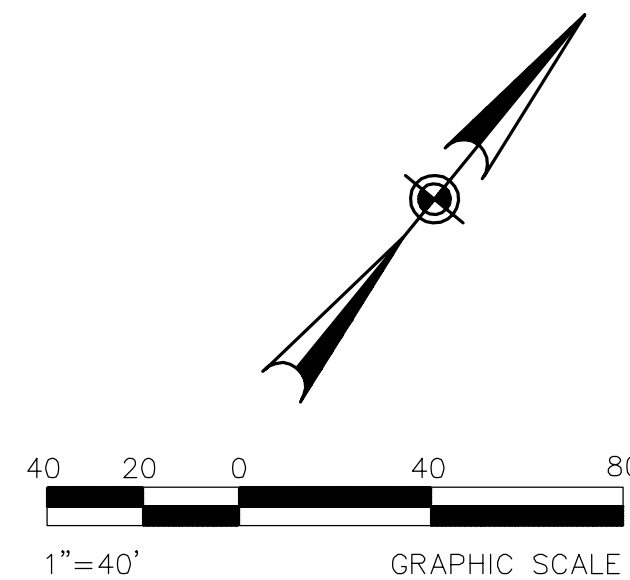
- FI(OH) EXISTING FIBER LINE OVERHEAD
- G EXISTING GAS LINE
- TEL EXISTING TELECOMMUNICATIONS
- SS EXISTING SANITARY SEWER LINE
- W EXISTING WATER LINE
- EXISTING SANITARY SEWER MANHOLE
- ⊕ EXISTING ROADSIDE SIGN (ONE POST)
- ⊕ EXISTING STREET LIGHT POLE
- ⊕ EXISTING TRAFFIC SIGNAL POLE
- ⊕ EXISTING POWER POLE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING GUY WIRE
- ⊕ EXISTING MANHOLE
- ⊕ EXISTING UTILITY BOX
- ⊕ EXISTING TREE
- ⊕ NEW ROADSIDE SIGN (ONE POST)
- ⊕ STREET LIGHT POLE W/BANNER
- ⊕ TRAFFIC SIGNAL POLE

MATCH LINE "A" STA 21+50 SEE ABOVE RIGHT

MATCH LINE "B" STA 32+50 SEE SHEET U-2



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DATE

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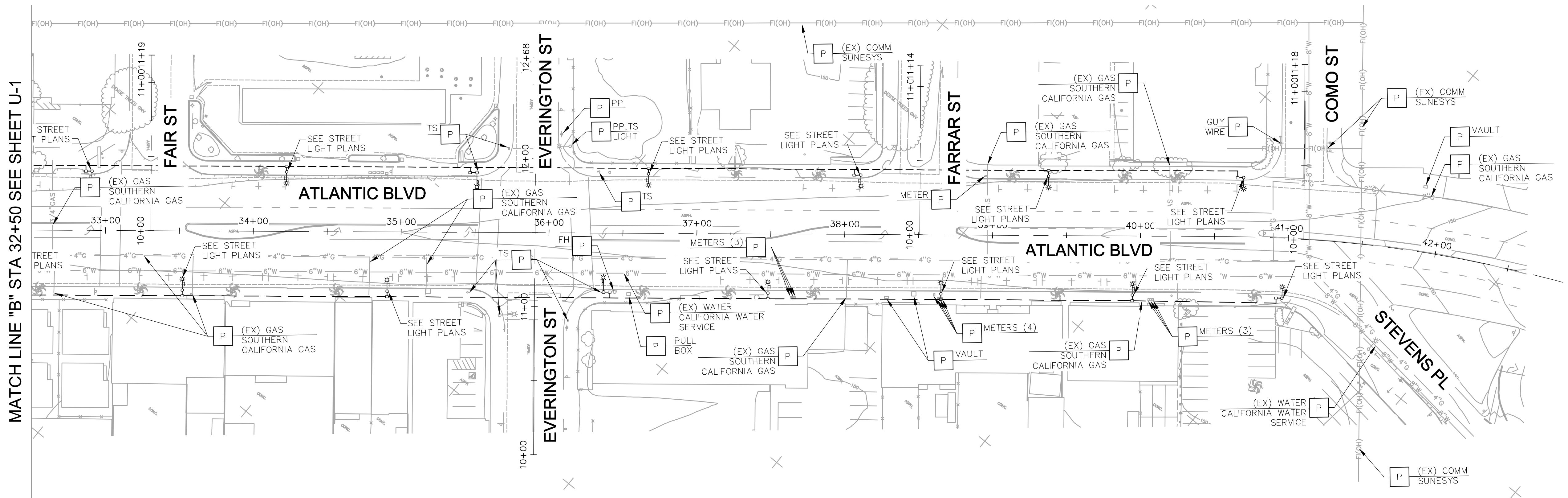
TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

COMPOSITE UTILITY PLAN

SHEET 32 OF 43 SHEETS DRWG NO. U-1

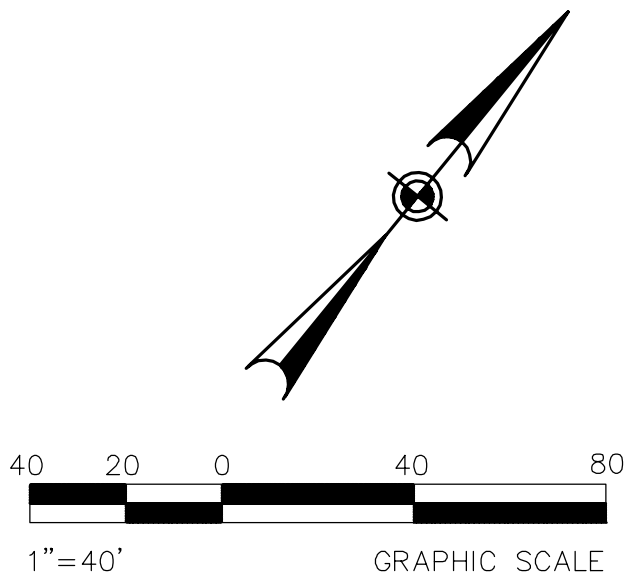


CONSTRUCTION NOTES:

[P] PROTECT IN PLACE (ITEM)

LEGEND:

- FI(OH)— EXISTING FIBER LINE OVERHEAD
- G — EXISTING GAS LINE
- TEL — EXISTING TELECOMMUNICATIONS
- SS — EXISTING SANITARY SEWER LINE
- W — EXISTING WATER LINE
- EXISTING SANITARY SEWER MANHOLE
- ⊙ EXISTING ROADSIDE SIGN (ONE POST)
- ⊙ EXISTING STREET LIGHT POLE
- ⊙ EXISTING TRAFFIC SIGNAL POLE
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ EXISTING GUY WIRE
- ⊙ EXISTING MANHOLE
- ⊙ EXISTING UTILITY BOX
- ⊙ EXISTING TREE
- ⊙ NEW ROADSIDE SIGN (ONE POST)
- ⊙ STREET LIGHT POLE W/BANNER
- ⊙ TRAFFIC SIGNAL POLE



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CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

COMPOSITE UTILITY PLAN

SHEET 33 OF 43 SHEETS

DRWG NO.

U-2

ATLANTIC BLVD. MEDIANS

WASHINGTON BLVD. TO COMO ST., COMMERCE, CA

NEW MEDIAN LANDSCAPE IMPROVEMENTS
14 SEPTEMBER 2018

GENERAL NOTES -

SCOPE OF WORK

ALL WORK SHALL COMPLY WITH ALL CITY STANDARDS. THE WORK SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY FOR THE INSTALLATION OF ALL WORK INDICATED IN THESE PLANS AND THE SPECIFICATIONS. CONTRACTOR SHALL VERIFY SPECIFIC CONDITIONS OF THE WORK TO BE PERFORMED WITH THE INVITATION TO BID.

QUALITY OF MATERIALS

MATERIALS SPECIFIED IN THE PLANS AND SPECIFICATIONS SHALL PREVAIL WHEN OF A HIGHER STANDARD THAN THOSE REQUIRED TO MEET STATE AND LOCAL CODES.

PLAN BACKGROUND

THESE PLANS ARE BASED UPON ELECTRONIC FILE SITE INFORMATION PROVIDED BY OTHERS. CONTRACTOR SHALL VERIFY SITE INFORMATION IN THE FIELD. LOST WEST HAS PREPARED THESE PLANS AND SPECIFICATIONS AS PROJECT LANDSCAPE ARCHITECT. LOST WEST SHALL NOT BE RESPONSIBLE FOR ANY WORK WHICH IS NOT EXPLICITLY DETAILED IN THESE PLANS, AND IS NOT RESPONSIBLE FOR THE WORK OF ANY OTHER COMPANY OR PERSONS PROVIDING SERVICES ON THIS PROJECT EITHER IN THE PAST OR IN THE FUTURE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE METHOD AND MEANS OF CONSTRUCTION.

CHANGES TO PLANS

THE DESIGNS AND TECHNICAL INFORMATION PRESENTED IN THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF LOST WEST. CHANGES WITHOUT THE EXPRESSED WRITTEN CONSENT OF LOST WEST ARE PROHIBITED AND WOULD RELIEVE LOST WEST OF ALL RESPONSIBILITY AS TO EVENTUAL PROJECT OUTCOME.

EXISTING SITE CONDITIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UNDERGROUND SERVICE ALERT FOR THE MARK-OUT OF UTILITIES PRIOR TO THE COMMENCEMENT OF ANY WORK RELATED TO THESE PLANS.

CONTRACTOR SHALL VERIFY THE LOCATION OF ALL STRUCTURES ABOVE AND BELOW GROUND WITHIN AND ADJACENT TO THE PROJECT SITE PRIOR TO AND DURING THE COURSE OF WORK. CONTRACTOR SHALL INFORM OWNER AND LOST WEST IMMEDIATELY SHOULD DISCREPANCIES BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS BE DISCOVERED WHICH HAVE A NEGATIVE EFFECT ON THE DESIGN OR ITS IMPLEMENTATION.

JOB-SITE CONDITIONS

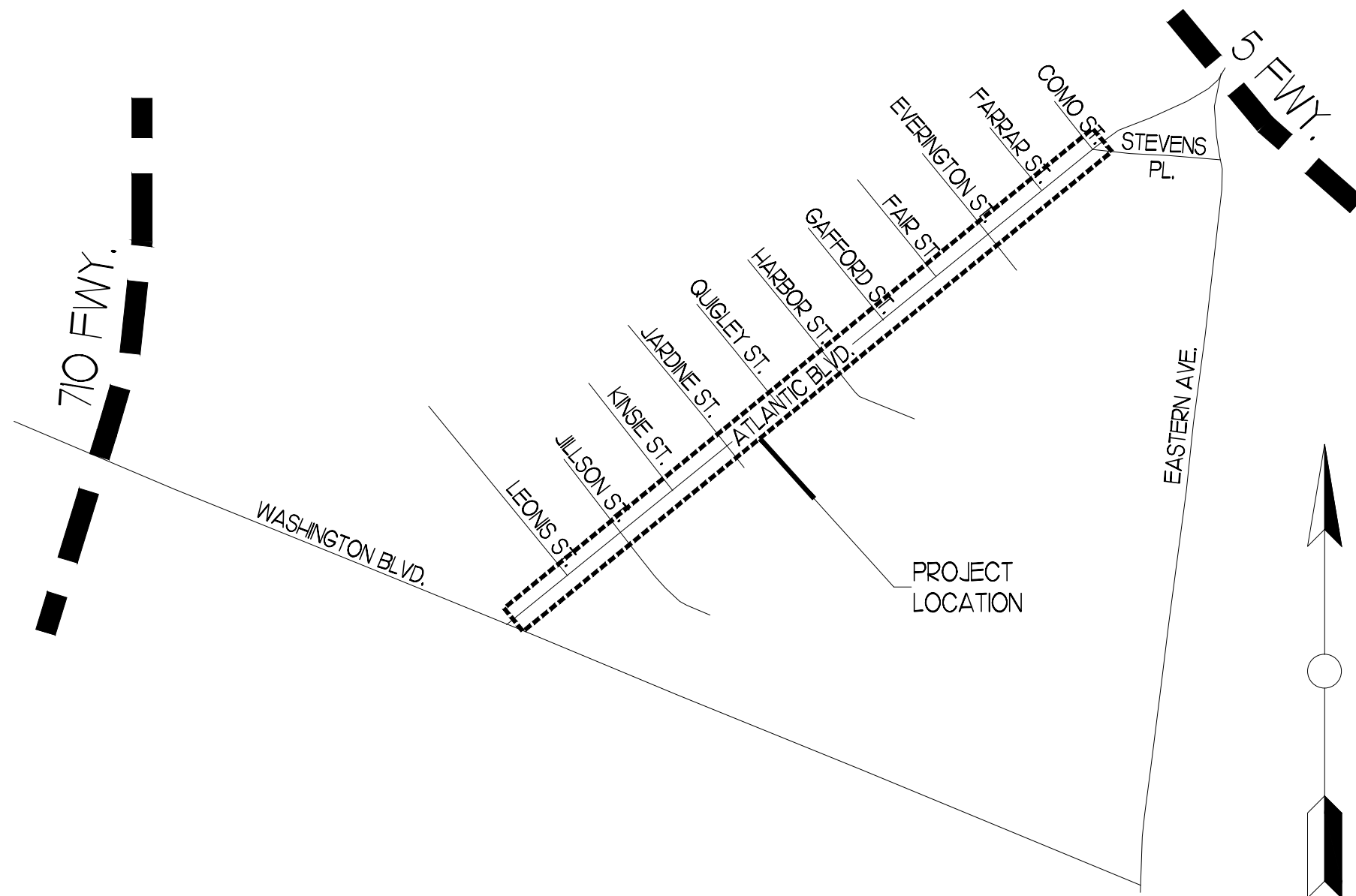
CONTRACTOR SHALL MAINTAIN JOB-SITE IN A WEED FREE STATE DURING CONSTRUCTION AND THE MAINTENANCE PERIOD BY USE OF ROUND-UP OR EQUAL NON-SELECTIVE HERBICIDE. CONTRACTOR SHALL KEEP SITE NEAT AND FREE OF CONSTRUCTION DEBRIS AND UNNEEDED EQUIPMENT AT ALL TIMES.

SPECIFICATIONS & STANDARD PLANS

ALL WORK ILLUSTRATED IN THE PUBLIC RIGHT-OF-WAY IN THESE PLANS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, AND ANY RELEVANT CITY AND REGIONAL STANDARD PLANS OR SPECIFICATIONS, IN ADDITION TO THE INFORMATION PROVIDED IN THE PLANS AND SPECIFICATIONS FOUND HEREIN.

VICINITY MAP -

NOT TO SCALE



HYDRO-ZONE AREA CALCULATIONS -

HYDROZONE INFORMATION TABLE

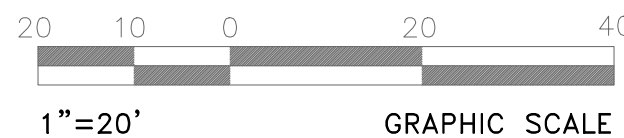
HYDRO-ZONE	VALVE NO.'S	IRRIGATION METHOD	HYDROZONE AREA	% OF LANDSCAPE AREA
1 - LOW	A2,4, B2,4,5, C2,3,4, D1,3,6,7, E3,4,5	DRP	9145 SF	69%
2 - MOD	A1,3, B1,3, C1, D2,4,5,8, E1,2	DRP & BUBBLER	4110 SF	31%

LANDSCAPE SHEET INDEX

SHEET NO.	SHEET NAME
LO1 OF 10	LANDSCAPE TITLE SHEET
LO2 - LO4 OF 10	PLANTING PLANS & DETAILS
LO5 - LO7 OF 10	IRRIGATION PLANS & DETAILS
LO8 - LO10 OF 10	LIGHTING PLANS & DETAILS



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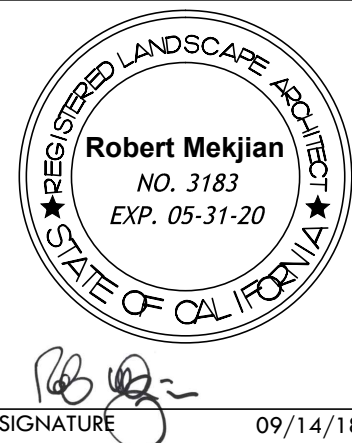


NO.	REVISIONS	REV. BY	APP. BY	DATE

PLAN DATE:
09/14/18

PLOTTING HISTORY:
07/10/18 - Version 1
09/06/18 - Version 2
09/14/18 - Version 3

PROJECT FILE NO. - NAME:
1812 - Atlantic Blvd. Medians



LOST WEST
A CALIFORNIA CORPORATION
LANDSCAPE ARCHITECTURE
GARDENS • PARKS • CITIES
PO BOX 4548 Carlsbad, CA 92018
5208 Townsend Ave. Los Angeles, CA 90041
TEL: (760) 434-5790 OR (323) 258-8214

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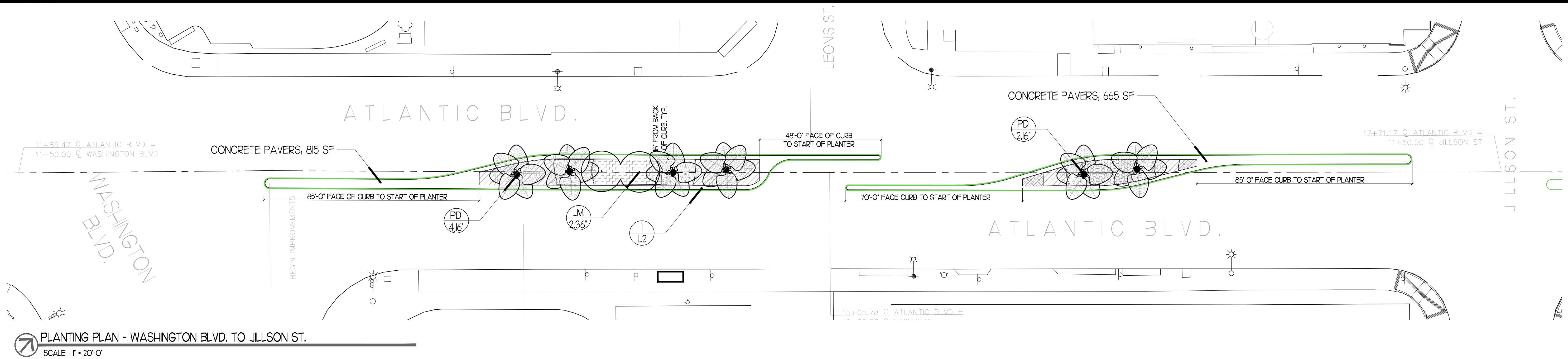
TITLE DATE

CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

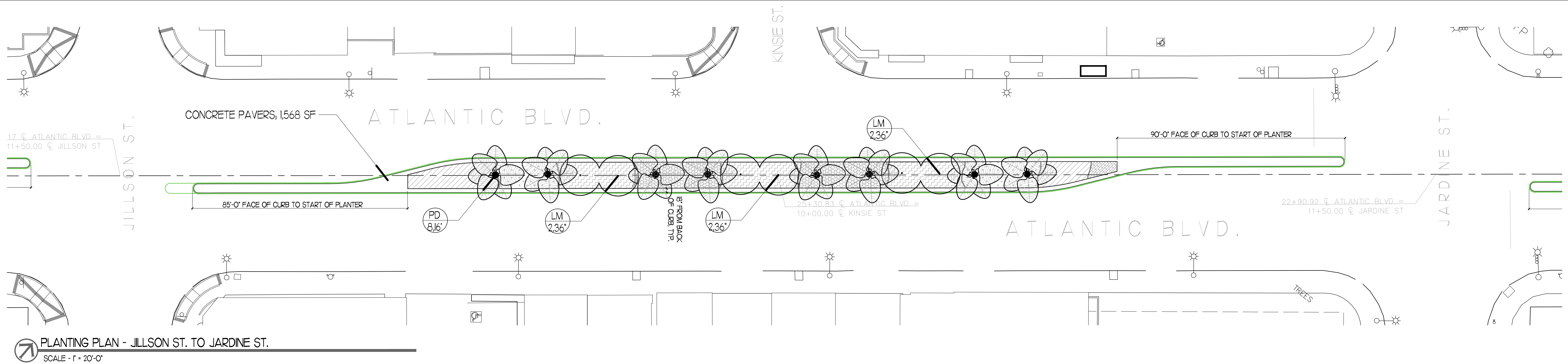
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

LANDSCAPE TITLE SHEET

SHEET 01 OF 10 SHEETS DRWG NO. L-01



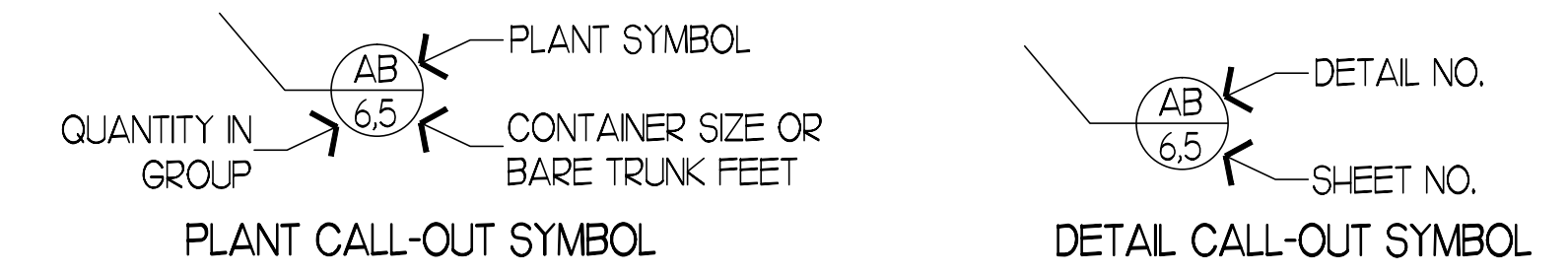
PLANTING PLAN - WASHINGTON BLVD. TO JILLSON ST.
SCALE - 1" = 20'-0"



PLANTING PLAN - JILLSON ST. TO JARDINE ST.
SCALE - 1" = 20'-0"

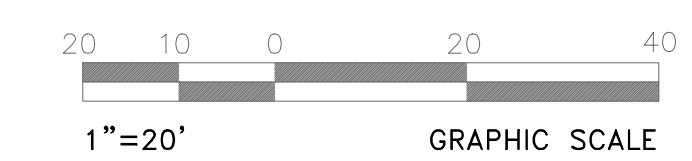
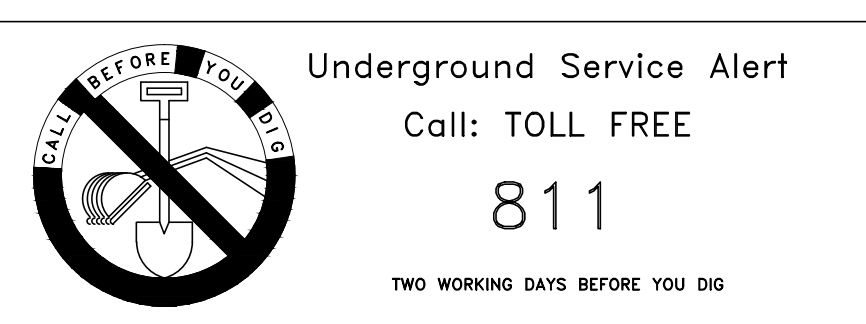
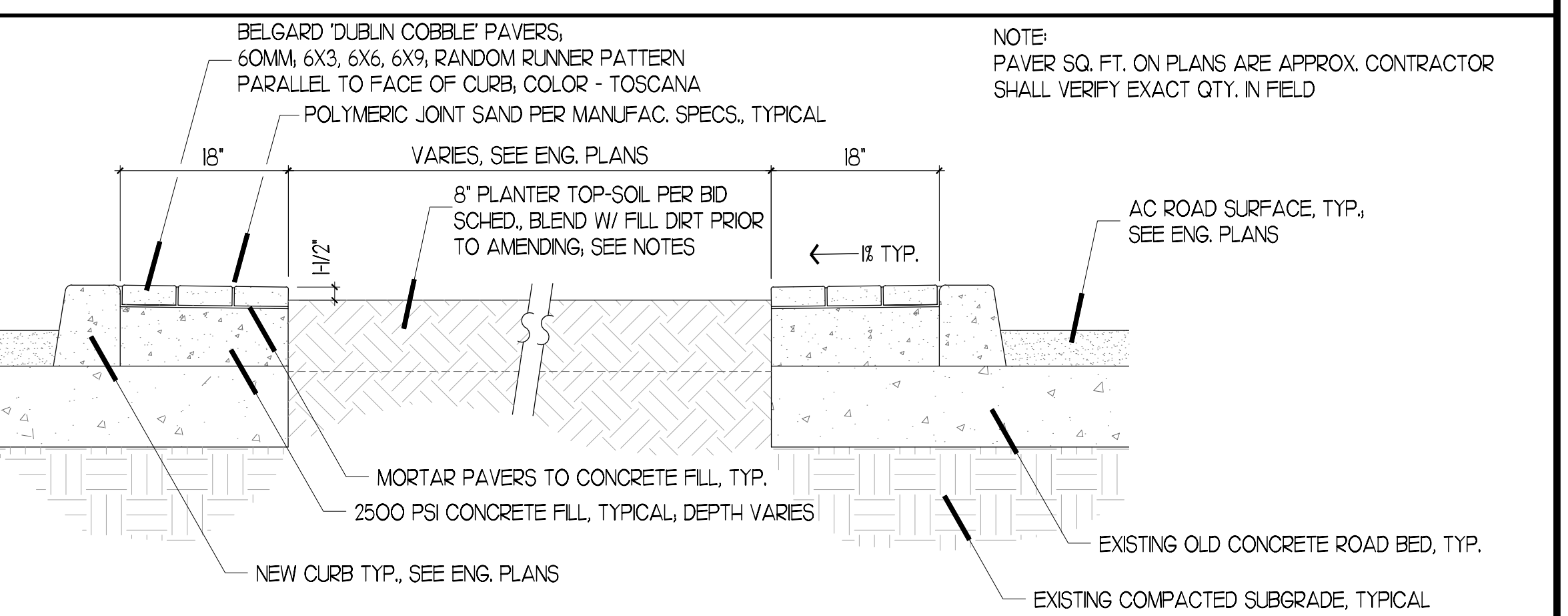
PLANTING LEGEND-ALL SHEETS

SYM	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	WATER USE	REMARKS
TREES						
PD	PHOENIX DACTYLIFERA	DATE PALM	43	MIN. 16' B.T.F.	LOW	FIELD GROWN, SINGLE TRUNK
LM	LAGERSTROEMIA TUSCARORA	GRAPE MYRTLE	29	36" BOX	MODERATE	STANDARD
SHRUBS & GROUND COVER - BOTANICAL NAME / COMMON NAME, ON-CENTER (O.C.) SPACING, CONTAINER SIZE, WUCOLS, (TOTAL SQUARE FOOTAGE), REMARKS						
	AGAVE 'BLUE FLAME' / BLUE FLAME AGAVE, 2'-3" O.C., 5 GAL., LOW, (2,424 SF), PLANT NO CLOSER THAN 2'-0" O.C. FROM BACK OF CURB					
	BOUGANVILLEA 'OO-LA-LA' / 'OO-LA-LA' BOUGANVILLEA, 2'-6" O.C., 1 GAL., LOW, (3,257 SF), PLANT NO CLOSER THAN 2'-6" O.C. FROM BACK OF CURB					
	CALLISTEMON LITTLE JOHN / DWF. BOTTLEBRUSH, 2'-6" O.C., 5 GAL., LOW, (3,050 SF), PLANT NO CLOSER THAN 2'-0" O.C. FROM BACK OF CURB					
	LANTANA MONTEVIDENSIS - WHITE / LANTANA, 2'-6" O.C., 1 GAL., LOW, (520 SF), PLANT NO CLOSER THAN 2'-6" O.C. FROM BACK OF CURB					
	STRELITZIA REGINAE / BRD OF PARADISE, 2'-9" O.C., 5 GAL., MODERATE, (3,322 SF), PLANT NO CLOSER THAN 2'-0" O.C. FROM BACK OF CURB					



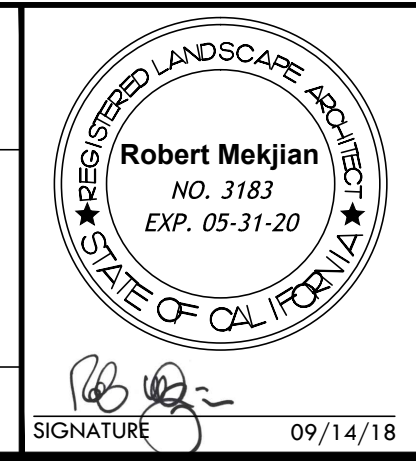
PLANTING NOTES-

- CONTRACTOR SHALL EXERCISE CARE IN LOCATING UNDERGROUND PIPELINES & UTILITIES PRIOR TO DIGGING BY CONTACTING THE UTILITY COMPANIES & UNDERGROUND SERVICE ALERT PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE OF ANY CONFLICTS FOUND DURING EXCAVATION IN ORDER TO FIND A RESOLUTION IN THE FIELD.
- CONTRACTOR SHALL COLLECT A SOIL SAMPLE FROM THE 8" LAYER OF CLASS 'A' TOPSOIL SHOWN ON THESE PLANS AND BID SCHEDULE AND FROM IMPORTED FILL DIRT USED TO FILL MEDIAN PER CIVIL ENGINEER PLANS DURING GRADING AND SEND TO AN AGRONOMIC SOIL TESTING LAB FOR A FERTILITY ANALYSIS THAT SHALL INCLUDE TESTING FOR ORGANIC MATTER CONTENT, PH, SALINITY, N-P-K, EC, TEXTURE, AND SHALL CONTAIN RECOMMENDATIONS FOR AMENDMENTS, LEACHING, AND FERTILIZING. THE REPORT SHALL BE FOLLOWED IN THE PREPARATION OF THE SOIL AND PRIOR TO ANY PLANTING. CONTRACTOR SHALL GIVE CITY REPRESENTATIVE & LANDSCAPE ARCHITECT COPIES OF THE REPORT ALONG WITH A LIST OF PRODUCTS CONTRACTOR INTENDS TO USE TO AMEND SOIL PER THE REPORT. CONTRACTOR SHALL BLEND THE TOP-SOIL AND FILL DIRT FOLLOWING AMENDMENTS/FERTILIZING FOR UNIFORM SOIL PROFILE PRIOR TO PLANTING.
- CONTRACTOR SHALL INSTALL PLANTINGS PER THESE PLANS, DETAILS AND SPECIFICATIONS, ANY APPLICABLE MANUFACTURERS SPECIFICATIONS, AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST ADOPTED EDITION.
- ALL PLANTED AREAS SHALL BE MULCHED TO A MINIMUM DEPTH OF 3" WITH A MEDIUM GRIND SHREDDED BARK MULCH. CONTRACTOR SHALL PROVIDE A SAMPLE OF MULCH TO CITY REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
- CONTRACTOR SHALL INSTALL DEEP ROOT, OR APPROVED EQUAL, LB-40 ROOT CONTROL PANELS, 24" DEEP, AT THE PERIMETER OF ALL PLANTERS AGAINST THE BACK OF THE CURB, PER THE MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL OMIT ROOT BARRIERS IN MEDIANS WITHOUT TREES OR, IN CASES WHERE THERE IS A LIMITED NUMBER OF TREES AS RELATES TO THE LENGTH OF THE MEDIAN, THEN ONLY FOR A DISTANCE OF 10 FEET IN EITHER DIRECTION FROM THE TRUNK OF THE LAST TREE.
- BARE ROOT PALM TREES SHALL BE PLANTED AND STAKED ON THE SAME DAY, PER THE DETAIL.
- PLANT LEGEND QUANTITIES ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES SHOWN ON THE PLANS TO PROVIDE UNIFORM PLANT SPACING.



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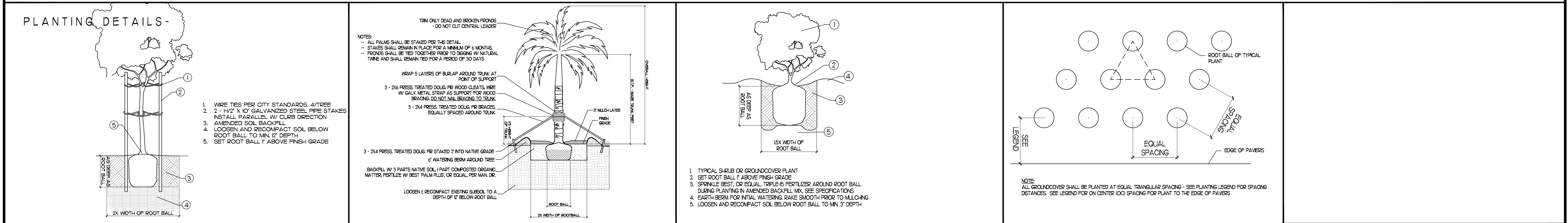
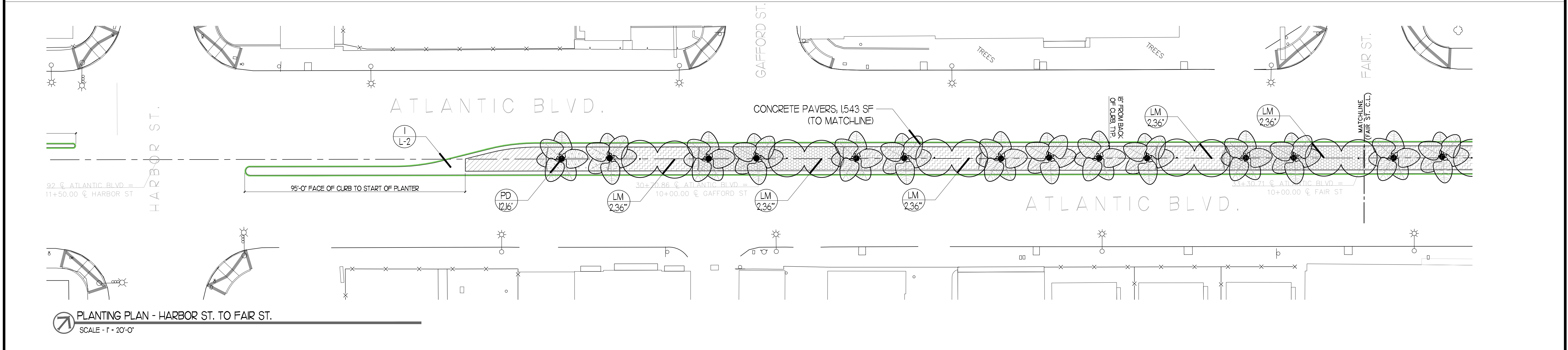
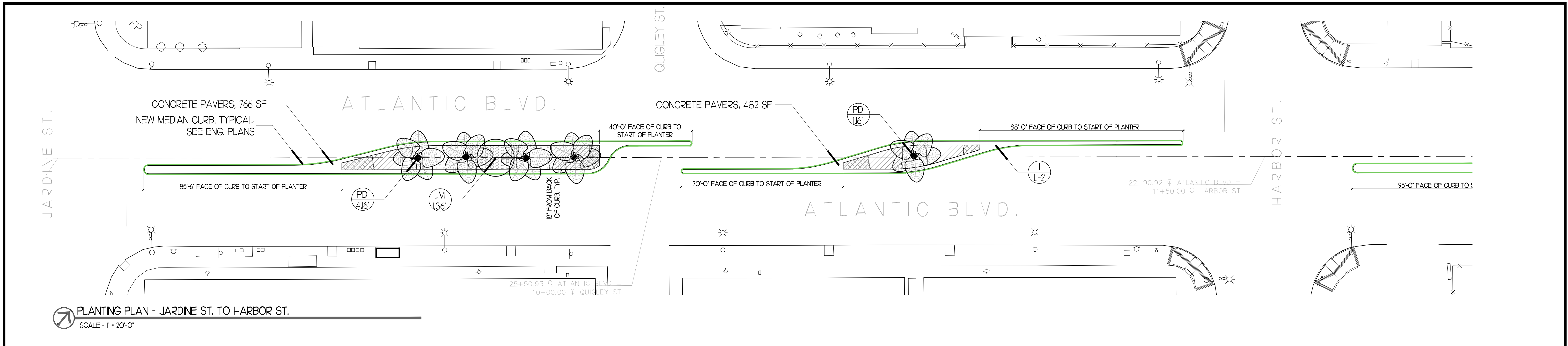
PLAN DATE: 09/14/18
PLOTTING HISTORY: 07/10/18 - Version 1 09/06/18 - Version 2 09/14/18 - Version 3
PROJECT FILE NO. - NAME: 1812 - Atlantic Blvd. Medians



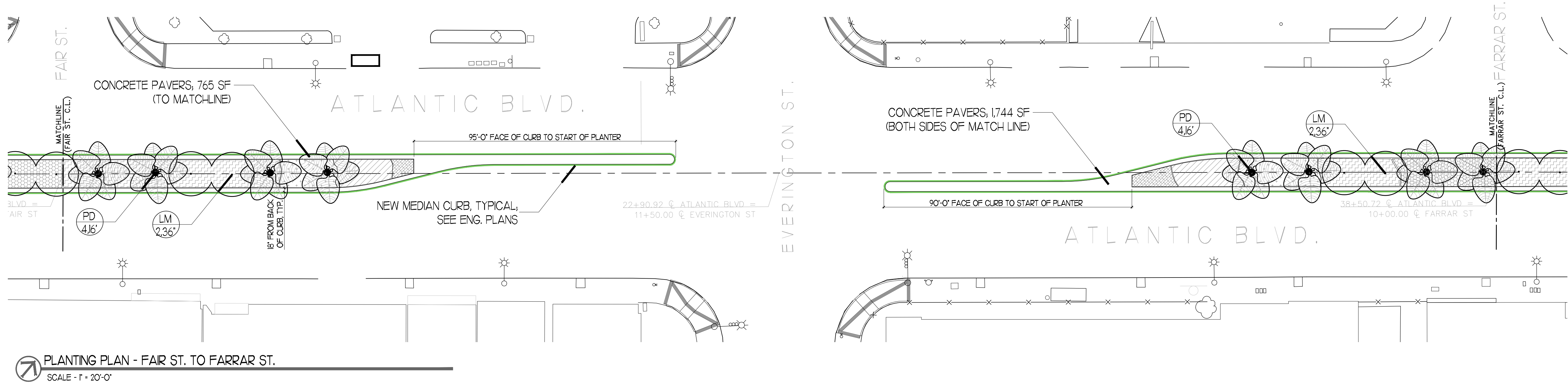
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TITLE	DATE

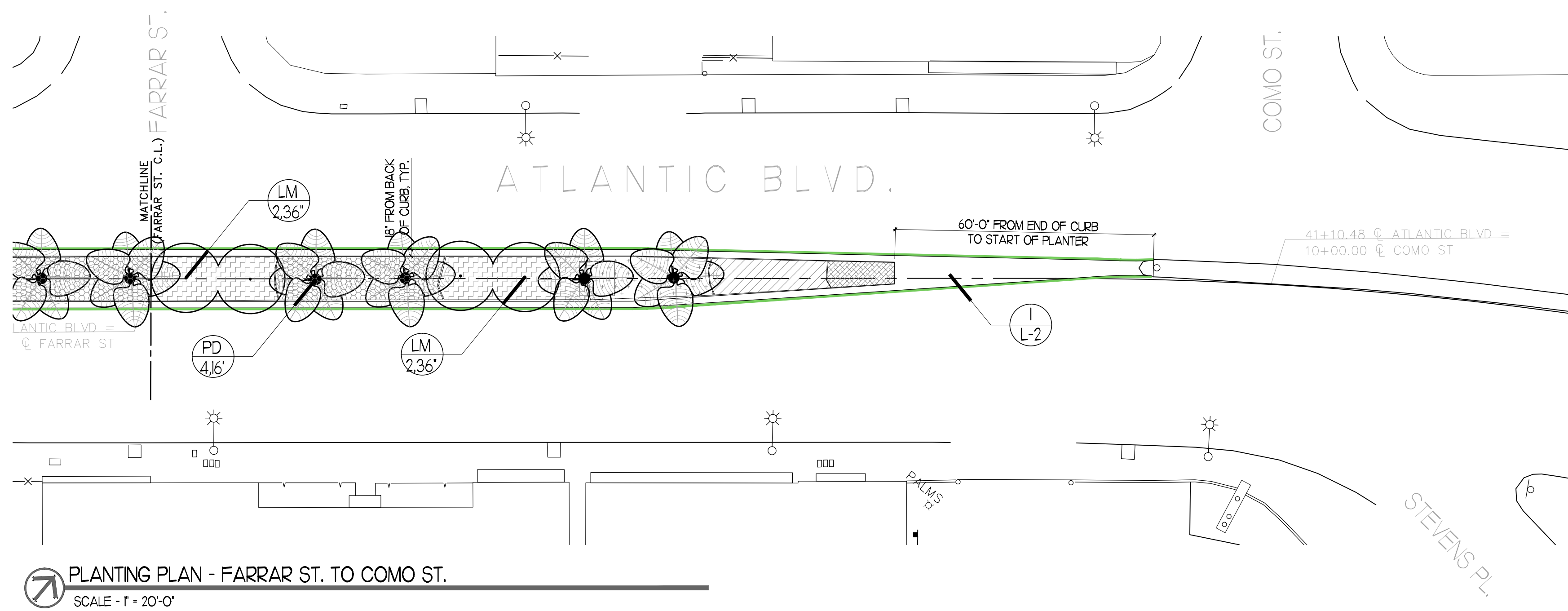
CITY OF COMMERCE PUBLIC WORKS AND ENGINEERING DEPARTMENT	
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
PLANTING PLAN - WASHINGTON BLVD. TO JARDINE ST.	
SHEET 02 OF 10 SHEETS	DRWG NO. L-02



<p>CITY OF COMMERCE PUBLIC WORKS AND ENGINEERING DEPARTMENT</p> <p>ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS</p> <p>PLANTING PLAN - JARDINE ST. TO FAIR ST. C.L.</p> <p>SHEET 03 OF 10 SHEETS DRWG NO. L-03</p>							
<p>Underground Service Alert Call: TOLL FREE 811 TWO WORKING DAYS BEFORE YOU DIG</p>		<p>NO. REVISIONS REV. BY APP. BY DATE</p>		<p>PLAN DATE: 09/14/18</p> <p>PLOTTING HISTORY: 07/10/18 - Version 1 09/06/18 - Version 2 09/14/18 - Version 3</p> <p>PROJECT FILE NO. - NAME: 1812 - Atlantic Blvd. Medians</p>	<p>REGISTERED LANDSCAPE ARCHITECT Robert Mekjian NO. 3183 EXP. 05-31-20 STATE OF CALIFORNIA</p> <p>SIGNATURE 09/14/18</p>	<p>LOST WEST A CALIFORNIA CORPORATION LANDSCAPE ARCHITECTURE GARDENS • PARKS • CITIES PO BOX 4548 Carlsbad, CA 92018 5208 Townsend Ave. Los Angeles, CA 90041 TEL: (760) 434-5790 OR (323) 258-8214</p>	<p>ELECTRONICALLY APPROVED BY: PUBLIC WORKS & DEV. SERVICES DIRECTOR DATE</p> <p>ELECTRONICALLY CHECKED BY: TITLE DATE</p>



PLANTING PLAN - FAIR ST. TO FARRAR ST.
SCALE - 1" = 20'-0"



PLANTING PLAN - FARRAR ST. TO COMO ST.
SCALE - 1" = 20'-0"

WUCOLS CALCULATIONS -

MAWA: Maximum Applied Water Allowance Calculations for New and Rehabilitated Non-Residential Landscapes

Enter value in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Click on the blue cell on right to Pick City Name

ET_a of City from Appendix A

Los Angeles	Name of City
50.40	ET _a (inches/year)
0	Overhead Landscape Area (ft ²)
13255	Drip Landscape Area (ft ²)
0	SLA (ft ²)
13255	Total Landscape Area
185,265	Gallons
24,766	Cubic Feet
248	HCF
1	Acre-foot
0	Millions of Gallons

Results:

(ET_a) x (0.62) x [(0.45 x LA) + ((1.0 - 0.45) x SLA)]

MAWA calculation incorporating Effective Precipitation (Optional)

Precipitation (Optional)

ET_a of City from Appendix A

Total Landscape Area

Special Landscape Area

Enter Effective Precipitation

0.00

Results:

MAWA = (ET_a - E_{ppt}) x (0.62) x [(0.45 x LA) + ((1.0 - 0.45) x SLA)]

50	ET _a (inches/year)
13,255	LA (ft ²)
0	SLA (ft ²)
0.00	Total annual precipitation (inches/year)
0.00	E _{ppt} (in/yr) (25% of total annual precipitation)
185,265	Gallons
24,766	Cubic Feet
248	HCF
1	Acre-foot
0	Millions of Gallons

ETWU: Estimated Total Water Use

Equation: ETWU = ET_a x 0.62 x [((PF x HA)/IE) + SLA], Considering precipitation ETWA = (ET_a - E_{ppt}) x 0.62 x [((PF x HA)/IE) + SLA]

Enter values in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Irrigation Efficiency Default Values for overhead 0.75 and drip 0.81.

Plant Water Use Type	Plant Factor
Very Low	0-0.1
Low	0.2-0.3
Medium	0.4-0.6
High	0.7-1.0
SLA	1.0

Hydrozone	Select System From the Dropdown List click on cell below	Plant Water Use Type (pf) (low, medium, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft ²) Without SLA	Irrigation Efficiency (IE)	(PF x HA / IE)
Zone 1	Drip	Medium	0.50	4,100	0.81	2,537
Zone 2	Drip	Low	0.25	9,145	0.81	2,823
		SLA				0
		Sum		13,245		

Results

MAWA = 185,265

Total Landscape Area including Special

ETWU = 166,468 Gallons

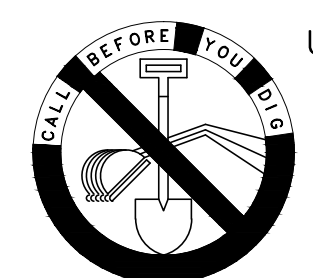
22,254 Cubic Feet

222.54 HCF

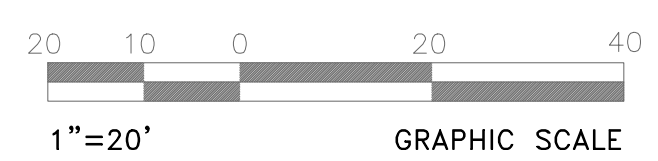
0.51 Acre-foot

0.17 Millions of Gallons

ETWU complies with MAWA



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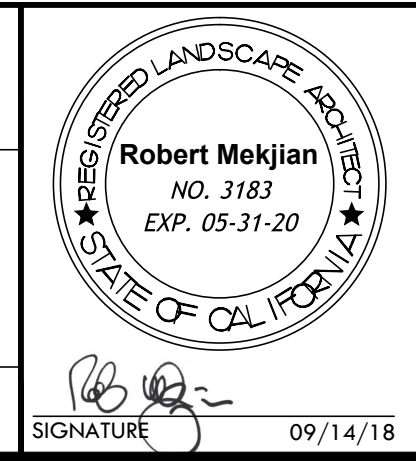


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PLAN DATE:
09/14/18

PLOTTING HISTORY:
07/10/18 - Version 1
09/06/18 - Version 2
09/14/18 - Version 3

PROJECT FILE NO. - NAME:
1812 - Atlantic Blvd. Medians



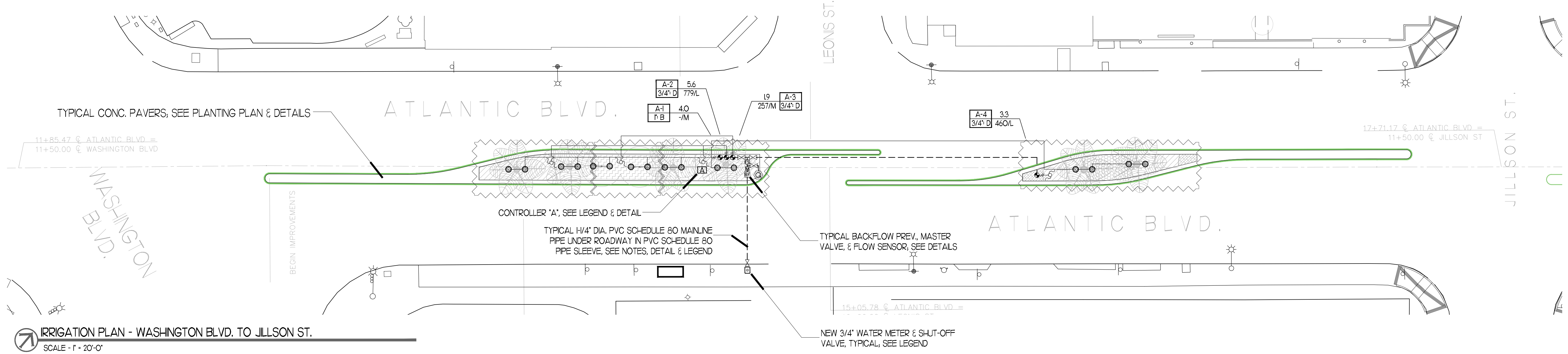
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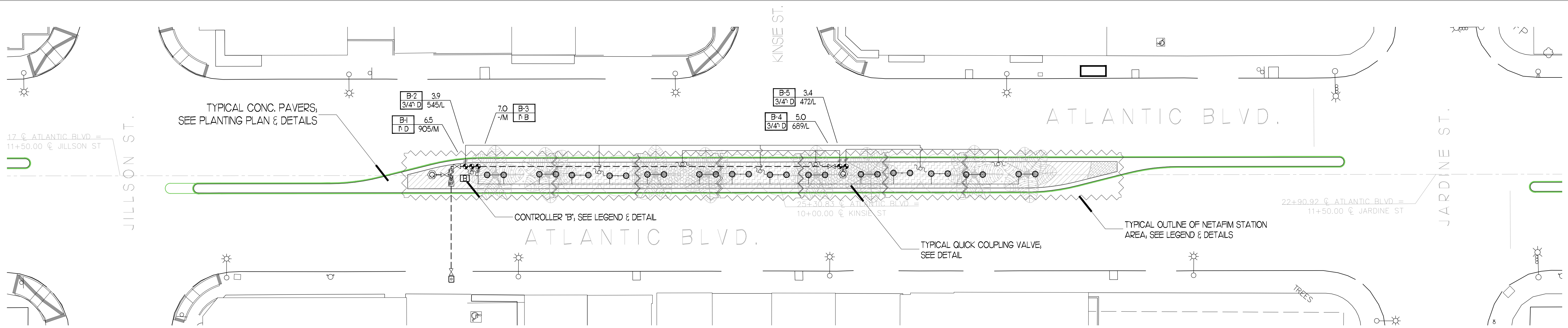
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TITLE

CITY OF COMMERCE PUBLIC WORKS AND ENGINEERING DEPARTMENT	
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
PLANTING PLAN - FAIR ST. C.L. TO END AT COMO ST.	
SHEET 04 OF 10 SHEETS	DRWG NO. L-04



IRRIGATION PLAN - WASHINGTON BLVD. TO JILLSON ST.
SCALE - 1" = 20'-0"



IRRIGATION PLAN - JILLSON ST. TO JARDINE ST.
SCALE - 1" = 20'-0"

IRRIGATION LEGEND-ALL SHEETS

- SYM DESCRIPTION (QTY.)
- WATER METERS (5) - CONTRACTOR SHALL INSTALL A NEW 3/4" DIA. WATER METER FOLLOWED IMMEDIATELY W/ A NEW WATTS, OR EQUAL, BRONZE FULL PORT BALL VALVE, 1" DIA., IN STANDARD RECTANGULAR CONCRETE VALVE BOX. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ANY PORTIONS OF CONCRETE SIDEWALK DURING INSTALLATION AND SHALL COORDINATE ALL WORK W/ PUBLIC WORKS STAFF AND THE WATER PROVIDER. TYPE OF METER SHALL BE DETERMINED BY CITY.
 - BACKFLOW PREVENTER(S) - WILKINS MODEL 975XL2VSR, OR APPROVED EQUAL, 1" DIA. REDUCED PRESSURE BACKFLOW PREVENTER, W/ 1" FULL PORT BALL VALVES, 1" DIA. BRONZE WYE STRAINER, & 1" DIA. WILKINS MODEL 500 PRESSURE REGULATOR; INSTALL IN PROTECTIVE ENCLOSURE, SEE DETAIL.
 - MASTER VALVES (5) - GRISWOLD CONTROLS MODEL 2000H NORMALLY CLOSED, CAST IRON & BRONZE, SOLENOID MASTER VALVE W/ EPOXY COATING, 1" DIA. USE APPROPRIATE DIG CORP. SOLENOID ADAPTER AND DC SOLENOID FOR LEIT CONTROLLER
 - FLOW SENSORS (5) - HUNTER 'FLOW-SYNC' MODEL FCT-100 FLOW SENSOR IN CARSON INDUSTRIES MODEL 910 10" RND. PLASTIC VALVE BOX W/ BOLT DOWN T-LID; SEE DETAIL
 - CONTROLLERS (5) MARKED 'A' TO 'E' - DIG PRODUCTS 'LEIT 4000' SOLAR POWERED CONTROLLERS POST MOUNTED ON MODEL MCOL-4000 MOUNTING COLUMNS, 32" LONG, AS FOLLOWS: CONTROLLER A: 4 STATION; CONTROLLER B: 6 STATION; CONTROLLER C: 4 STATION; CONTROLLER D: 8 STATION; CONTROLLER E: 6 STATION
ALL CONTROLLERS SHALL BE INSTALLED W/ MODEL ENCL 4000-S STAIN. STEEL ENCLOSURE W/ RAIN SENSOR ENCLOSURE. CONTRACTOR SHALL INSTALL DIG 'SKIT' ADAPTER AND A HUNTER 'MIN-CLK' RAIN SENSOR (5) IN RAIN SENSOR ENCLOSURE ON EACH CONTROLLER COLUMN PER BOTH MANUFACTURER'S SPECIFICATIONS
- GPM
DIP SQ. FT. /
HYDROZONE
- CONTROLLER - STATION NUMBER
 VALVE DIA: DRIP OR BUBBLER CIRCUIT

VALVE CALL-OUT SYMBOL

- SYM DESCRIPTION (QTY.)
- BALL SHUT-OFF VALVE (22) - WATTS, OR EQUAL, BRONZE FULL PORT BALL VALVE IN VALVE BOX PRIOR TO FIRST VALVE IN GROUP, 1" DIA., SEE DETAIL
 - AUTO. VALVES AS FOLLOWS - DRIP STATIONS: (3/4" DIA. - 13 TOTAL) - RAIN BIRD XCZ-075-PRF LOW FLOW CONTROL ZONE KIT, 3/4" LOW FLOW VALVE W/ PR FILTER IN STD. RECTANGULAR VALVE BOX, (1" DIA. - 7 TOTAL) - RAIN BIRD XCZLF-100-PRF LOW FLOW CONTROL ZONE KIT W/ PR FILTER IN STD. RECTANGULAR VALVE BOX, BUBBLER STATIONS: (1" DIA. - 6 TOTAL) - RAIN BIRD PGA SERIES GLOBE/ANGLE IN STD. RECTANGULAR VALVE BOX; SEE RESPECTIVE DETAILS. USE APPROPRIATE DIG CORP. SOLENOID ADAPTERS AND DC SOLENOIDS FOR LEIT CONTROLLER.
 - QUICK COUPLING VALVES (9) - RAIN BIRD 33-DLRC W/ LOCKING RUBBER COVER, 3/4"DIA. INSTALL IN CARSON INDUSTRIES MODEL 910 10" RND. PLASTIC VALVE BOX W/ BOLT DOWN T-LID; SEE DETAIL
 - ADAPT PVC PIPE IN PLANTING AREA TO NETAFIM TECHLINE (0.6 GPH X 12" O.C. EMITTER SPACING) IN EACH DRIP HYDRO-ZONE. SPACE LINES 15" O.C. STAGGER EMITTERS IN TUBING LAY-OUT. ANCHOR TUBING TO GRADE W/ RAIN BIRD MODEL TDS-050 BEND GALVANIZED TIE-DOWN STAKES PRIOR TO COVERING W/ MULCH, SEE DETAILS
 - ROOT WATERING TUBES (140) - RAIN BIRD MODEL RWS-B-C-140I ROOT WATERING SYSTEM W/ 0.25 GPM BUBBLER INSTALL RWS TUBES AT EDGE OF TREE ROOT BALL, 2 PER TREE, MAINTAIN A MINIMUM OF 3 FT. FROM TREE UPLIGHTS; INSTALL PER MANUFACTURER'S SPECIFICATIONS; SEE DETAIL
 - LATERAL LINE - 3/4" DIA. PVC CLASS 200 PIPE
 - LATERAL LINE - 1" DIA. PVC CLASS 200 PIPE
 - IRRIGATION MAINLINE - SCHEDULE 80 PVC INSIDE OF SCHEDULE 80 PVC PIPE SLEEVES UNDER ROADWAYS; SCHEDULE 40 PVC WITHIN PLANTERS, ALL 1/4" DIA.

IRRIGATION NOTES-

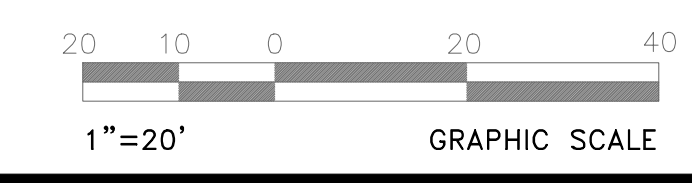
- IRRIGATION PLAN IS DIAGRAMMATIC. CONFLICTS W/ PAVING AND PLANTING SHALL BE RESOLVED BY THE CONTRACTOR IN THE FIELD. ROUTING OF PIPE & LOCATION OF VALVES SHALL BE APPROX. AS SHOWN. DETERMINE EXACT LOCATIONS IN FIELD.
- ALL PIPING SHOWN UNDER ROADWAY SHALL BE INSTALLED IN SCHEDULE 80 PVC PIPE SLEEVES. SEE ENGINEER'S PLANS. PLEASE NOTE THAT THE SLEEVES ARENT SHOWN ON THESE IRRIGATION PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE & COORDINATE THE DESIRED LOCATIONS OF PIPE SLEEVES BASED IN PART ON THE LOCATIONS OF THE NEW WATER METERS, AND CROSSING POINTS FOR SLEEVES BETWEEN MEDIANS, WITH THE CITY ENGINEER AND THE PROJECT ENGINEER.
- KEEP PVC LATERAL AND PRESSURE PIPING AT LEAST 12 INCHES FROM THE EDGE OF CONCRETE PAVERS.
- CONTRACTOR SHALL INSTALL IRRIGATION SYSTEM AS SHOWN. SUBSTITUTION OF COMPONENTS SHALL BE SUBJECT TO THE REVIEW & APPROVAL OF LOST WEST. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS & METHODS OF CONSTRUCTION.
- CONTRACTOR SHALL INSTALL IRRIGATION CONTROL WIRE IN PVC CONDUIT AND BURY IN TRENCH W/ MAINLINE.

SAMPLE IRRIGATION SCHEDULE-

DRIP - FIRST 6 MONTHS: MON, WED, FRI, 2 CYCLES, 20 MIN. PER CYCLE. AFTER 6 MONTHS: EVERY MON. & THURS., 3 CYCLES, 25 MIN. PER CYCLE
BUBBLERS - FIRST 6 MONTHS: TUES, SAT., 2 CYCLES, 20 MIN. PER CYCLE. AFTER 6 MONTHS: EVERY TUES., 2 CYCLES, 20 MIN. PER CYCLE

THIS IS A SAMPLE ONLY. CONTRACTOR SHALL OBSERVE THE PLANT PERFORMANCE DURING THE MAINTENANCE PERIOD AND ADJUST THE TIME AS NECESSARY FOR LOCAL CONDITIONS AND PLANT HEALTH

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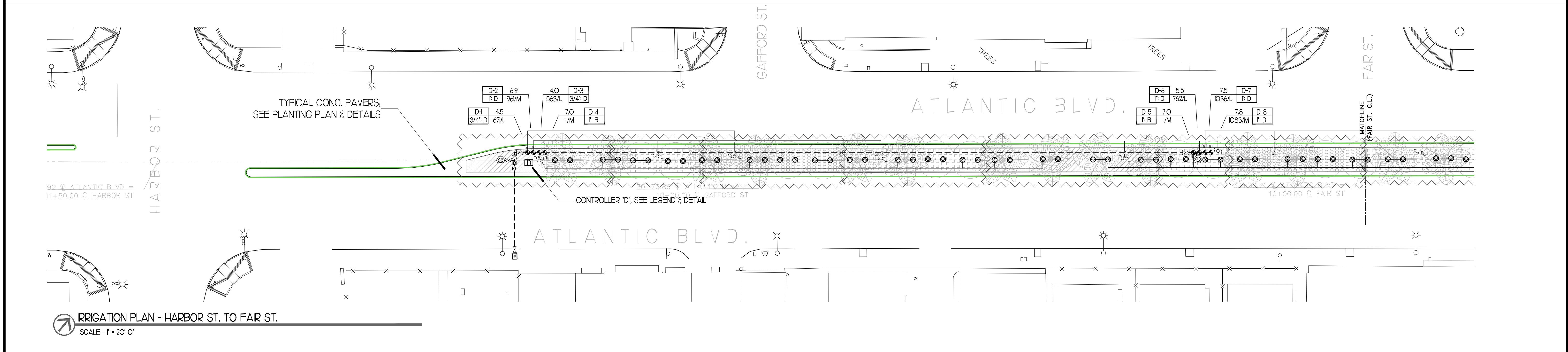
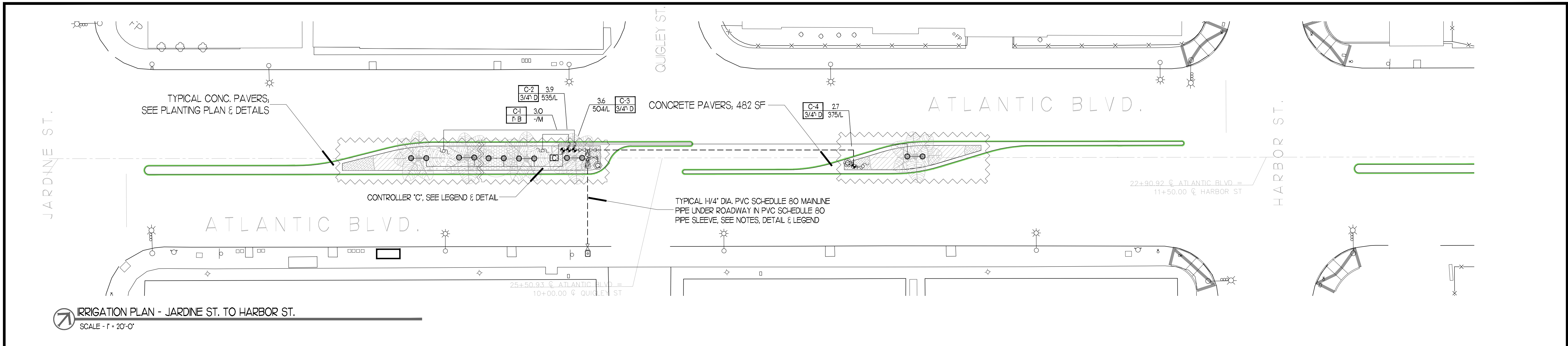
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CITY OF COMMERCE PUBLIC WORKS AND ENGINEERING DEPARTMENT	
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
IRRIGATION PLAN - WASHINGTON BLVD. TO JARDINE ST.	
SHEET 05 OF 10 SHEETS	DRWG NO. L-05



IRRIGATION DETAILS -

1. REDUCED PRESSURE BACKFLOW PREVENTER, SEE PLAN FOR TYPE & SIZE
2. PRESSURE REDUCING VALVE, SEE PLAN FOR TYPE & SIZE
3. BRONZE WIRE STRAINER, SEE PLAN FOR TYPE & SIZE
4. BRASS PIPE & FITTINGS TO/FROM BPP UNIT, TYPICAL
5. TRANSITION TO SCHEDULE 40 PVC W/ BRASS COUPLING AND PVC MALE ADAPTERS ONLY, TYPICAL. (NOTE: PRESSURE FROM METERS GREATER THAN 20PSI SHALL REQUIRE SCHED 80 PVC PIPE AND FITTINGS)
6. BRASS BALL VALVE, LINE SIZE
7. 2500PSI CONC. SLAB W/ MED. BROOM FINISH, SIZE PER ENCL. MANUFAC. SPECS.

DETAIL B: SOLAR POWER IRRIGATION CONTROLLER

1. LEFT CONTROLLER, MODEL 4000, SEE LEGEND
2. HIGH SECURITY S.S. ENCLOSURE, MODEL 30-405
3. HEAVY DUTY S.S. ENCLOSURE W/ LIGHT ACCESS THROUGH GRID ON TOP & INTERNAL CLAMP TO SECURE COLUMN MOUNTING MODEL 4000
4. GALVANIZED STEEL MOUNTING COLUMN, MODEL 4000, 4000L, 3" LONG
5. 12" X 18" 2500PSI MIN. CONCRETE BASE
6. FINISH GRADE
7. CONTROL WIRE IN CONDUIT (NOT SHOWN, SEE SPECIFICATIONS)
8. RAIN GAUGE ENCLOSURE MOUNTED TO SIDE OF COLUMN, SEE LEGEND

DETAIL C: BALL SHUT-OFF VALVE

1. NDS PRO SERIES 1 1/2" X 24" RECTANGULAR POLYOLEFIN VALVE BOX OR APPROVED EQUAL BRAND LD W/ 100% SHUT-OFF, SEE NOTES
2. FINISH GRADE OR TOP OF MULCH
3. WATTS OR APPROVED EQUAL, BRONZE FULL-PORT BALL VALVE, SEE LEGEND
4. BRASS UNION, LINE SIZE
5. SUPPORT BRICK (4), TYP.
6. 2" MIN. LAYER OF 3/4" CRUSHED ROCK
7. MAINLINE PIPE & FITTINGS TO AND FROM VALVE, SEE PLAN & LEGEND
INSTALL BALL VALVE PRIOR TO FIRST NEW VALVE IN GROUP

DETAIL D: QUICK COUPLING VALVE

1. VALVE BOX, SEE LEGEND
2. SCH. 80 PVC STREET EL.
3. SCH. 80 PVC NIPPLE - 6" LONG
4. BRASS QUICK-COUPLING VALVE, SEE LEGEND
5. S.S. SCREW CLAMP, MIN. (3) PLACES
6. 2" THICK PEA GRAVEL
7. #4 3' REBAR STAKE
8. BRASS NIPPLE, SIZE PER QUICK-COUPLER
9. BRASS ELBOW, TYP.
10. SCH. 40 PVC SUPPLY LINE
11. SCH. 80 PVC STREET EL. & TEE

DETAIL E: DRIP CONTROL ZONE ASSEMBLY

1. FINISH GRADE 1" BELOW TOP OF BOX
2. NDS PRO, OR EQUAL, STD. RECT. VALVE BOX W/ 100% VALVE BRANDED ON LD
3. DIG LEMMA 1600 PSI SOLENOID ACTUATOR FOR RAIN BROK DRIP VALVES W/ VALVE ID. TAG
4. AUTOMATIC DRIP VALVE, SEE PLAN & LEGEND
5. PRESSURE REGULATING FILTER
6. PVC SCHED. 40 MAINFOLD INLET
7. PVC CLASS 200 LATERAL LINE TO DRP ZONE & PPE ADAPTER, SEE LEG.
8. 2" MIN. DEPTH OF 3/4" CRUSHED ROCK UNDER VALVES, TYP.
9. COMMON BRCK. SUPPORTS (4), TYP.

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20 10 0 20 40
1"=20'
GRAPHIC SCALE

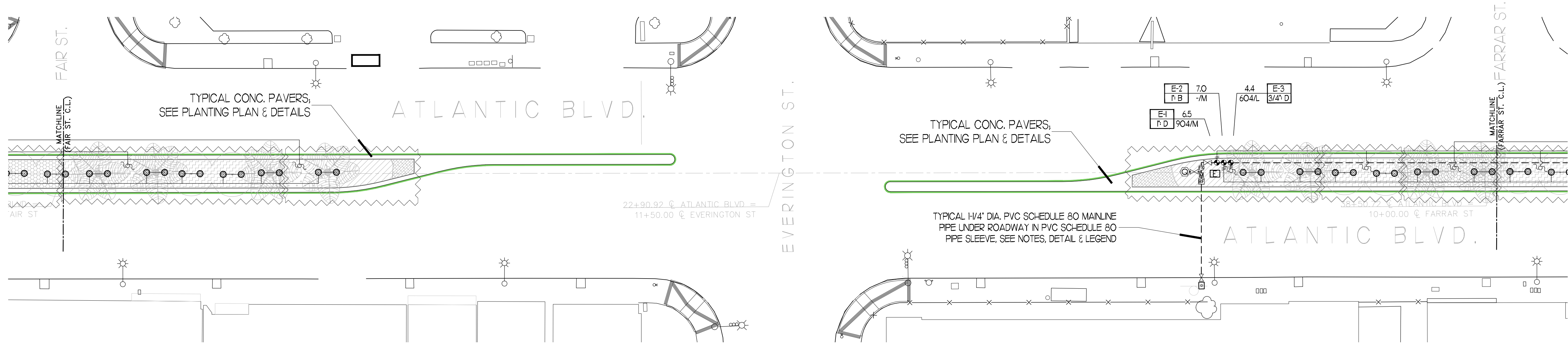
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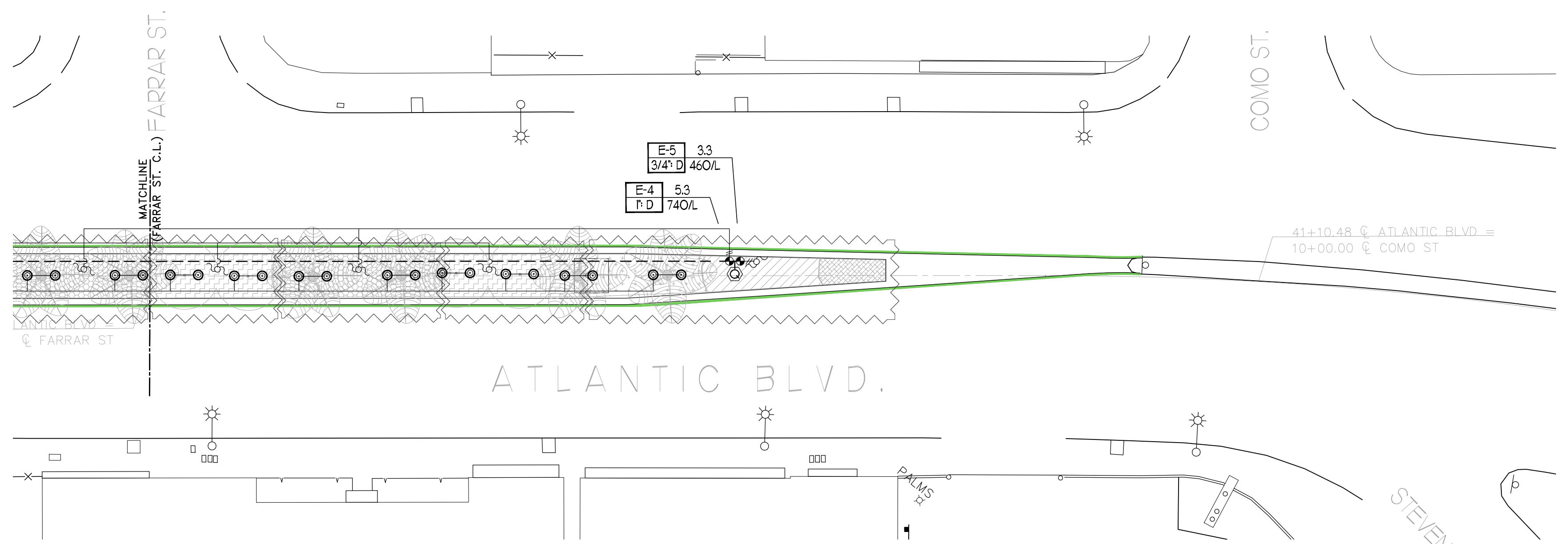
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CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS
IRRIGATION PLAN -
JARDINE ST. TO FAIR ST. C.L.
SHEET 06 OF 10 SHEETS
DRWG NO. L-06

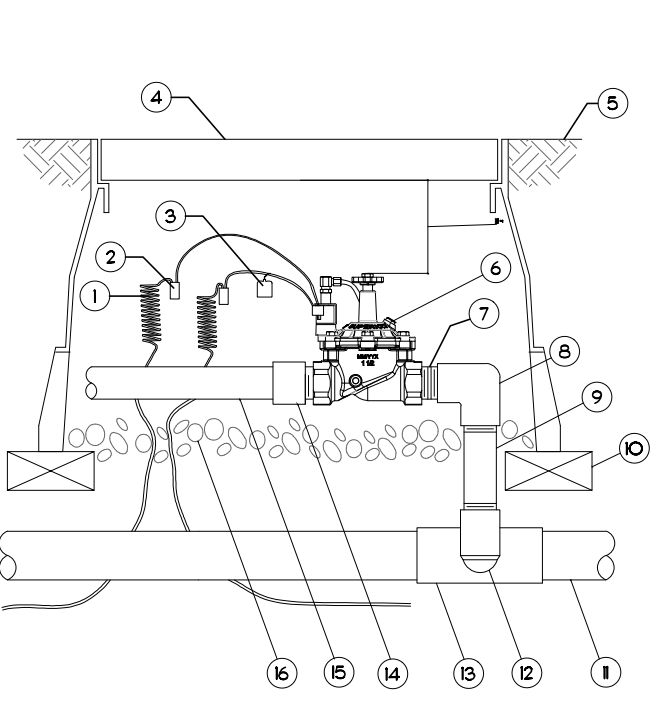


IRRIGATION PLAN - FAIR ST. TO FARRAR ST.
SCALE - 1" = 20'-0"

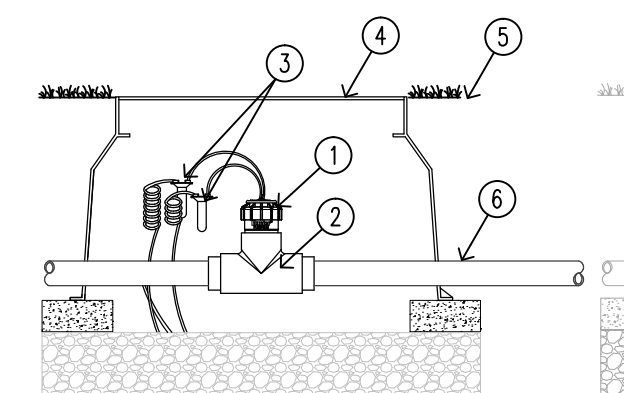


IRRIGATION PLAN - FARRAR ST. TO COMO ST.
SCALE - 1" = 20'-0"

IRRIGATION DETAILS-(CONT.)

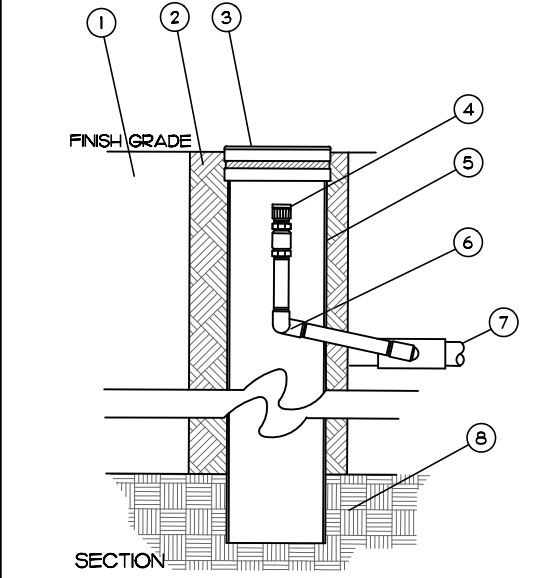


- 1. 3/4" LINEAR LENGTH WIRE COILED
 - 2. WATERPROOF CONNECTION
 - 3. D TAG
 - 4. VALVE BOX WITH COVER
 - 5. FINISH GRADE/TOE OF MULCH
 - 6. CONTROL VALVE SEE LEGEND
 - 7. PVC SCH 80 NIPPLE CLOSED
 - 8. PVC SCH 40 ELL
 - 9. PVC SCH 80 NIPPLE
 - 10. 1/2" OF 1/2"
 - 11. PVC MAINLINE PIPE
 - 12. SCH 80 NIPPLE AND SCH 40 ELL
 - 13. PVC SCH 40 TEE OR ELL
 - 14. PVC SCH 40 MALE ADAPTER
 - 15. PVC LATERAL PIPE
 - 16. 5" MINIMUM DEPTH OF 3/4" INCH WASHED GRAVEL
- USE DKS CORP. LEMMA KOOCHE SOLENOID ACTUATOR FOR RAIN BIRD VALVES

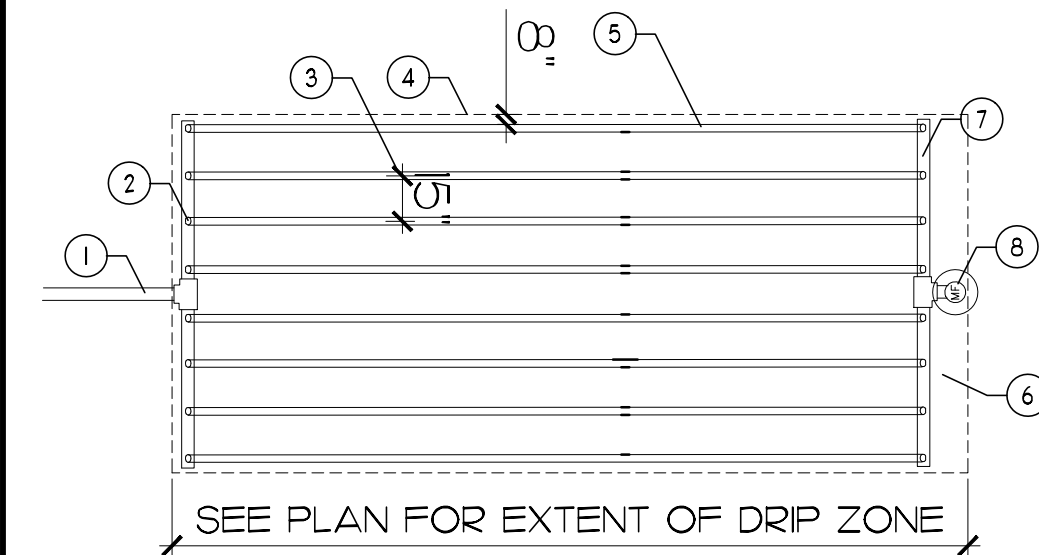
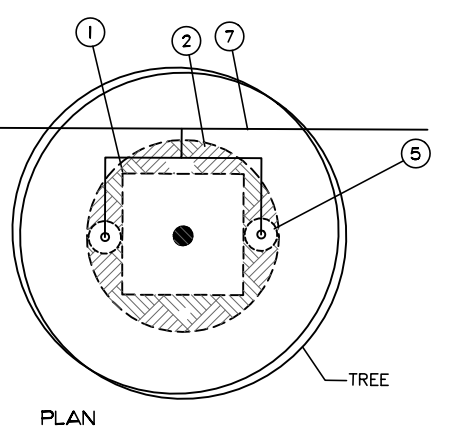


NOTE INLET PIPE LENGTH OF SENSOR MUST BE MIN. 10X PIPE DIA. STRAIGHT, CLEAN RUN OF PIPE, NO FITTINGS OR TURNS. OUTLET PIPE LENGTH OF SENSOR MUST BE MIN. 5X PIPE DIA. OF STRAIGHT CLEAN RUN OF PIPE, NO FITTINGS OR TURNS.

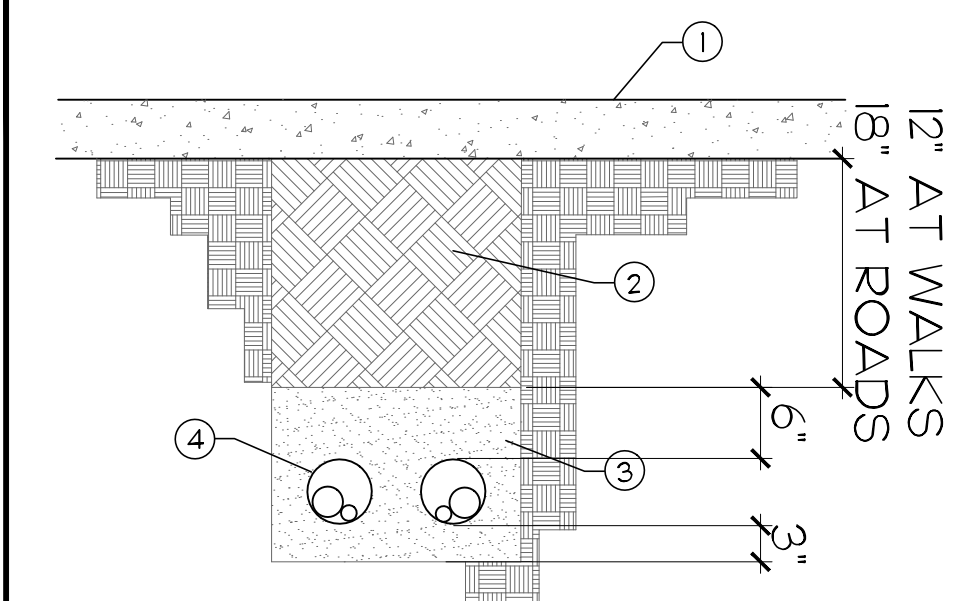
- 1. MODEL HFS-100
- 2. MODEL FCT-100
- 3. MIN. 18/2 WIRE TO ACC. POWER MODULE. MAXIMUM WIRE DISTANCE RUN OF 1,000'
- 4. 10" RND. VALVE BOX
- 5. FINISH GRADE
- 6. MAIN LINE PIPE
- 7. MASTER VALVE, SEE LEGEND



- 1. ROOT BALL OF TREE
- 2. BACKFILL
- 3. REMOVABLE GRATE
- 4. RAIN BIRD 0.25 GPM BUBBLER ON 1/2" PVC RISER
- 5. 4" DIA. MESH TUBE X 36" LONG, 2 PER TREE
- 6. SWING ASSEMBLY
- 7. SCH 40 LATERAL LINE, SEE PLAN FOR SIZE
- 8. NATIVE SOIL



- 1. LATERAL PIPE FROM VALVE, SEE PLAN
- 2. TECH-LINE TEE IN PVC LATERAL PIPE
- 3. SPACE LINES 16" O.C., SECURE W/ JUTE STAPLES
- 4. SPACE PERIMETER LATERALS 8" FROM EDGES
- 5. NETAFIM TECH-LINE-CV TUBING W/ 12" O.C. - 0.6 GPH EMITTER SPACING
- 6. PERIMETER PAVING OR CURBS
- 7. PVC LATERAL PIPE
- 8. MANUAL FLUSH VALVE IN 6" RND. VALVE BOX



- 1. PAVING
 - 2. CLEAN BACKFILL, 95% MIN. COMPACTION
 - 3. WASHED SAND, 95% MIN. COMPACTION
 - 4. PVC SCHEDULE 40 PIPE SLEEVES 3" DIA. MIN. WHEN ONLY 1 PIPE PASSING UNDER PAVING, 4" DIA. MIN. FOR MULTIPLE PIPE RUNS. MAINTAIN 40% OF SLEEVE CAPACITY OPEN FOR FUTURE PIPING EXTEND ALL SLEEVES MIN. 12" BEYOND EDGE OF PAVING
- NOTE: SLEEVING UNDER ROADBED SHALL BE SCHEDULE 80 PVC PIPE

F AUTO. BUBBLER VALVE
NOT TO SCALE

G HUNTER FLOW SENSOR STD. DETAIL
NOT TO SCALE

H TREE ROOT WATERING SYSTEM
NOT TO SCALE

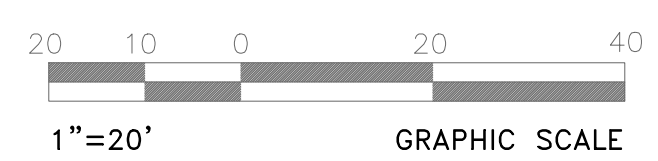
I TYPICAL NETAFIM TUBING SYS. LAY-OUT
NOT TO SCALE

J TYPICAL PIPE SLEEVING
NOT TO SCALE

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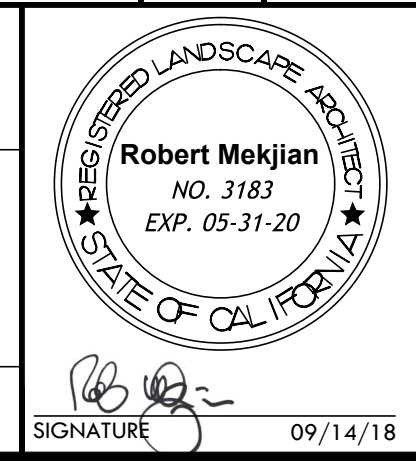


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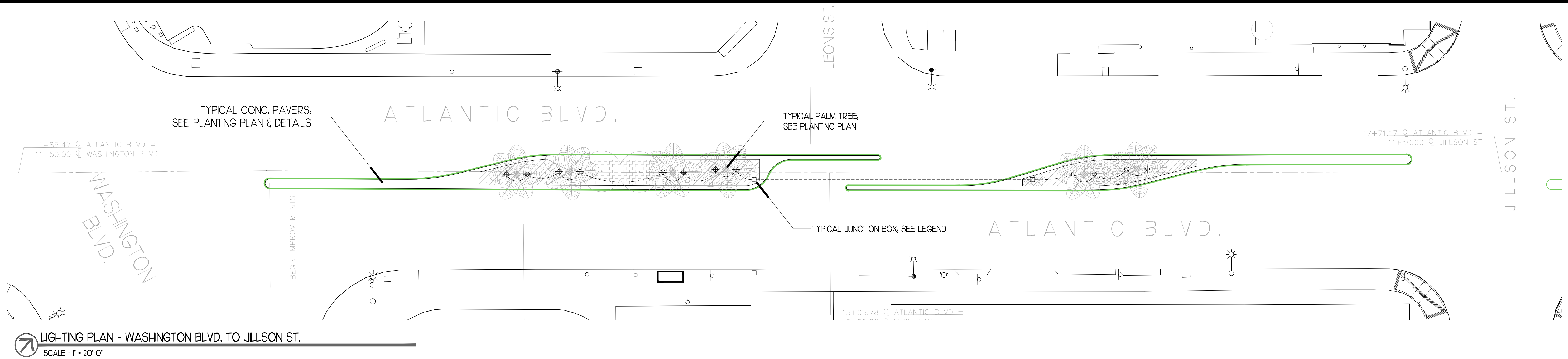
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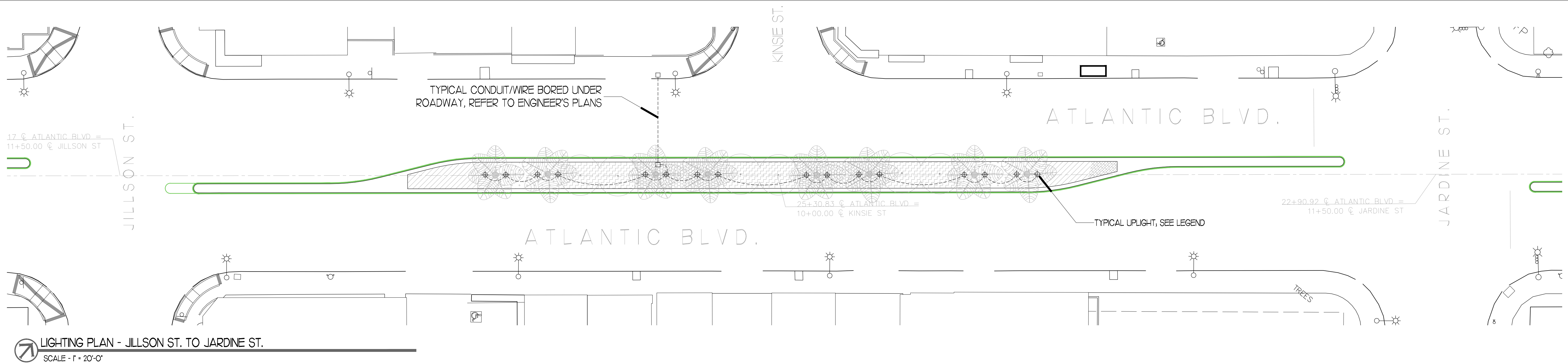
ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

IRRIGATION PLAN -
FAIR ST. C.L. TO END AT COMO ST.

SHEET 07 OF 10 SHEETS DRWG NO. L-07



LIGHTING PLAN - WASHINGTON BLVD. TO JILLSON ST.
SCALE - 1" = 20'-0"



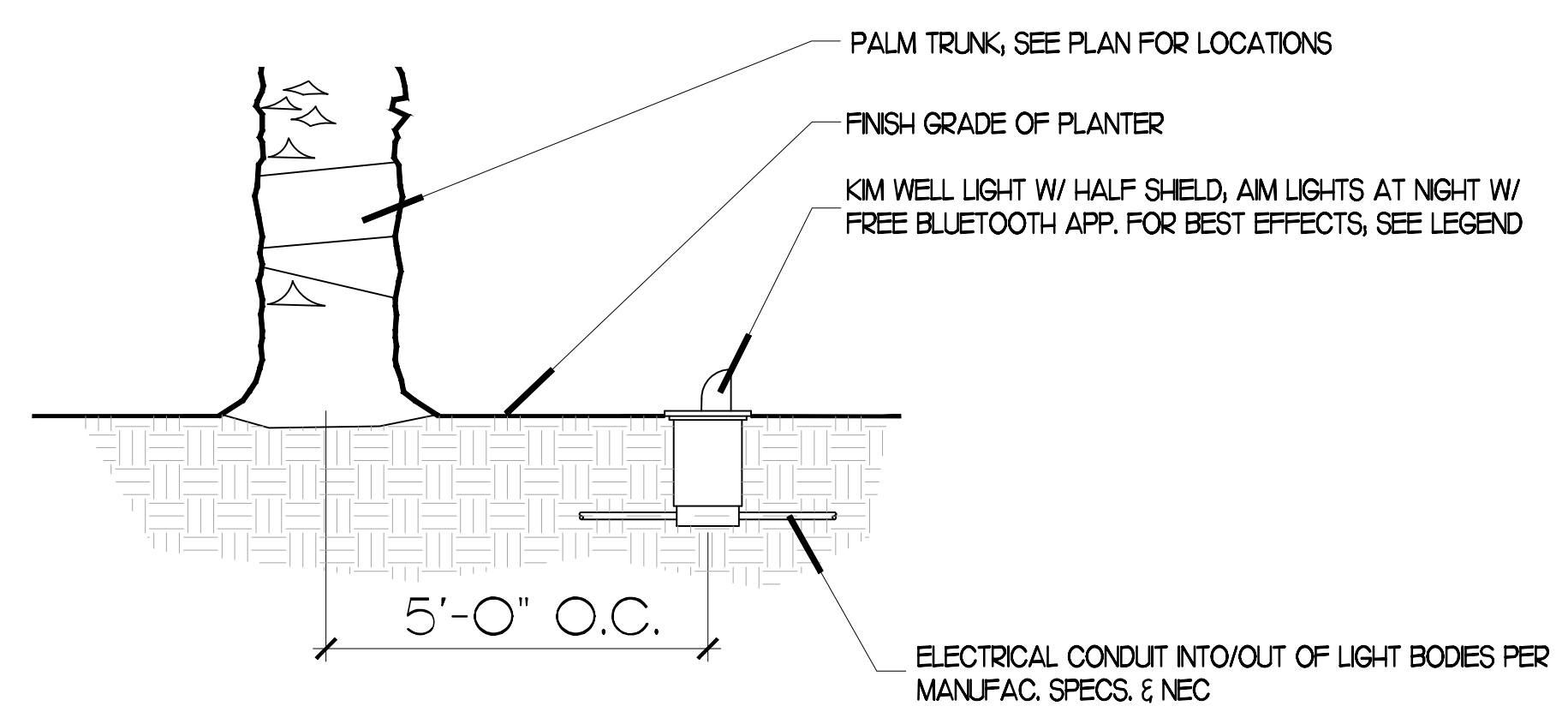
LIGHTING PLAN - JILLSON ST. TO JARDINE ST.
SCALE - 1" = 20'-0"

LIGHTING LEGEND-ALL SHEETS

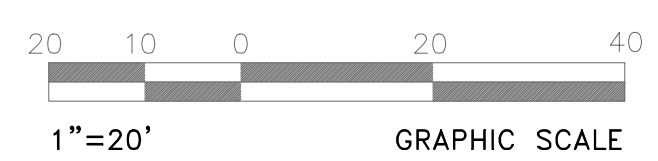
- SYM DESCRIPTION (QTY.)
- LED, PALM UPLIGHTS: KIM LIGHTING LTV SERIES, GROUND RECESSED MODEL LTV824S/SP 18L3KUV, 18 WATTS, 3000K, W/ HALF SHIELD OPTION; SEE DETAIL
 - CONDUIT/WIRE: WIRE SHALL BE A HOME RUN FROM ELECTRICAL PANEL TO MEDIAN. CONTRACTOR SHALL DETERMINE FIXTURE LOAD FOR EACH MEDIAN AND SIZE CONDUIT & WIRE ACCORDINGLY. LOCATION OF MAIN PANEL(S)/CABINET(S), PULL BOXES, J-BOXES, & GROUND RODS SHALL BE DESIGNED BY CONTRACTOR AND APPROVED BY CITY ENGINEER PRIOR TO STARTING PROJECT. CONTRACTOR SHALL COORDINATE W/ CITY TO DETERMINE METHOD OF CONTROLS FOR LIGHTING SYSTEMS.
 - PULL BOX/HAND-HOLE BOX: CONCRETE BOX W/ LID MARKED "ELECTRICAL"

LIGHTING NOTES-

- LIGHTING PLAN IS DIAGRAMMATIC. CONFLICTS W/ IRRIGATION AND PLANTING SHALL BE RESOLVED BY THE CONTRACTOR IN THE FIELD. ROUTING OF CONDUIT & LOCATION OF PULL BOXES SHALL BE AS DETERMINED BY CITY.
- ALL CONDUIT SHOWN UNDER PAVING SHALL BE INSTALLED BY BORING OR TRENCHING, REFER TO THE ENGINEER'S PLANS. COORDINATE BORING OR TRENCHING WITH THE CITY ENGINEER, PROJECT ENGINEER, AND THE WORK OF OTHER TRADES.
- MAINTAIN A MIN. OF 12 INCHES BETWEEN CONDUIT AND THE EDGE OF CONCRETE PAVERS. MAINTAIN A MIN. OF 6' FROM IRRIGATION LINES.
- CONTRACTOR SHALL INSTALL ALL ELECTRICAL CONDUITS, WIRE, BOXES AND LIGHTS IN ACCORDANCE W/ THE NEC, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, AND ANY MANUFACTURER'S SPECIFICATIONS.
- THIS PLAN DEPICTS LOCATIONS AND TYPES OF LIGHT FIXTURES ONLY. CONTRACTOR SHALL PROVIDE COMPLETE LIGHTING DESIGN AND LOAD CALCULATION DOCUMENTS COMPLYING W/ THE 2016 CALIFORNIA ELECTRICAL CODE (CEC), W/ CITY AMENDMENTS, AND/OR OTHER AUTHORITIES HAVING JURISDICTION.



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REGISTERED LANDSCAPE ARCHITECT
Robert Mekjian
NO. 3183
EXP. 05-31-20
STATE OF CALIFORNIA
SIGNATURE: [Signature] 09/14/18

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ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
LIGHTING PLAN – WASHINGTON BLVD. TO JARDINE ST.	
SHEET 08 OF 10 SHEETS	DRWG NO. L-08

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NO.	REVISIONS	REV. BY	APP. BY	DATE	PLAN DATE:
					09/14/18
					PLOTTING HISTORY: 07/10/18 - Version 1 09/06/18 - Version 2 09/14/18 - Version 3
					PROJECT FILE NO. - NAME: 1812 - Atlantic Blvd. Medians

PLAN DATE:
09/14/18

PLOTTING HISTORY:
07/10/18 - Version 1
09/06/18 - Version 2
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PROJECT FILE NO. - NAME:
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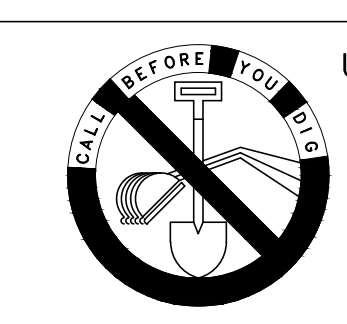
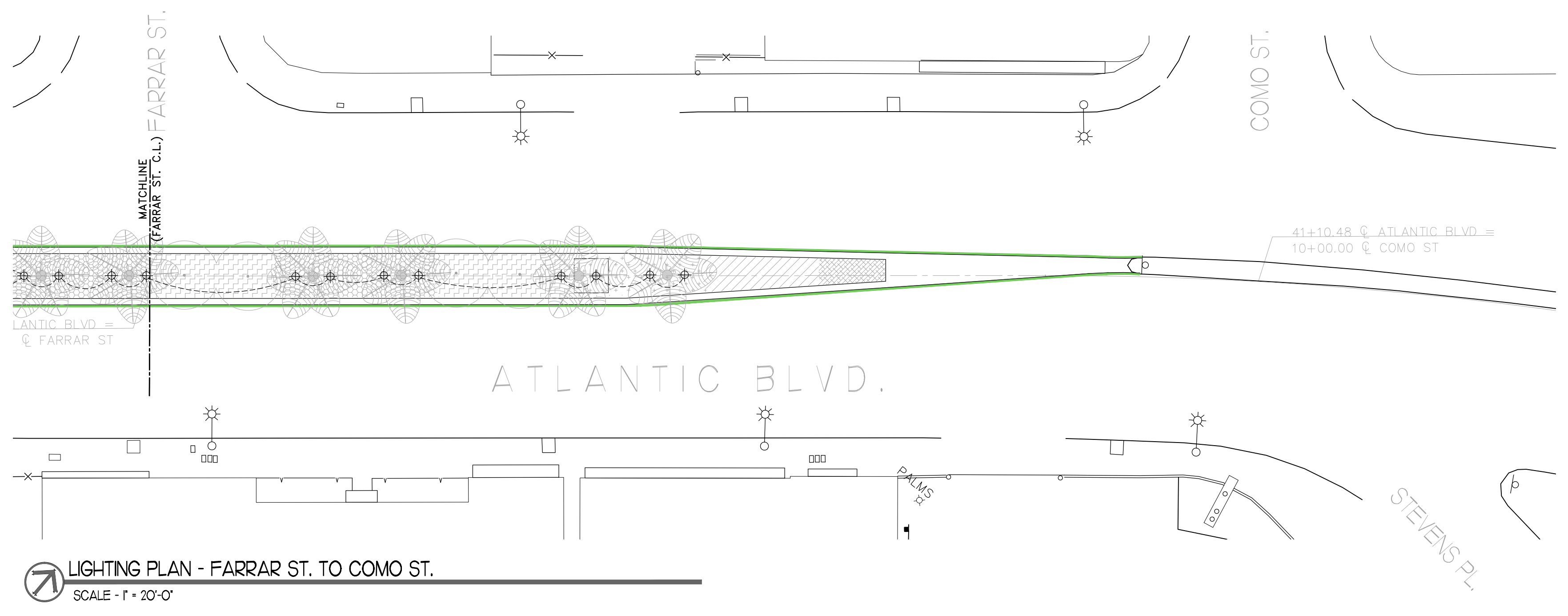
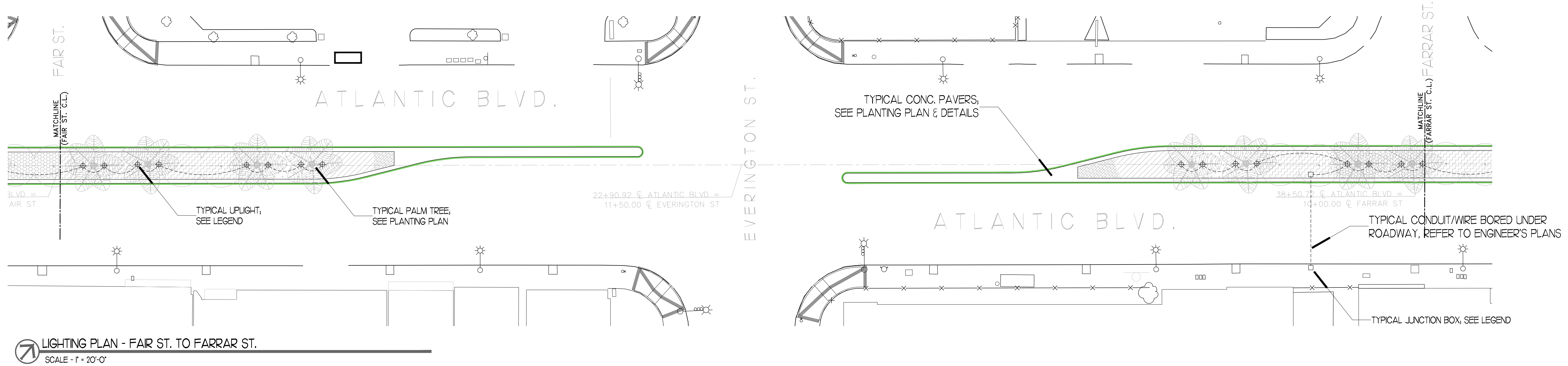
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CITY OF COMMERCE
PUBLIC WORKS AND ENGINEERING DEPARTMENT

ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS

LIGHTING PLAN –
JARDINE ST. TO FAIR ST. C.L.

SHEET 09 OF 10 SHEETS	DRWG NO.	L-09
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NO.	REVISIONS	REV. BY	APP. BY	DATE

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ATLANTIC BOULEVARD CORRIDOR IMPROVEMENTS	
LIGHTING PLAN – FAIR ST. C.L. TO END AT COMO ST.	
SHEET 10 OF 10 SHEETS	DRWG NO. L-10