

CITY of TAMPA



Department of
Economic & Urban Development

PLANS FOR

WEST TAMPA BAY BOULEVARD LINEAR PARK

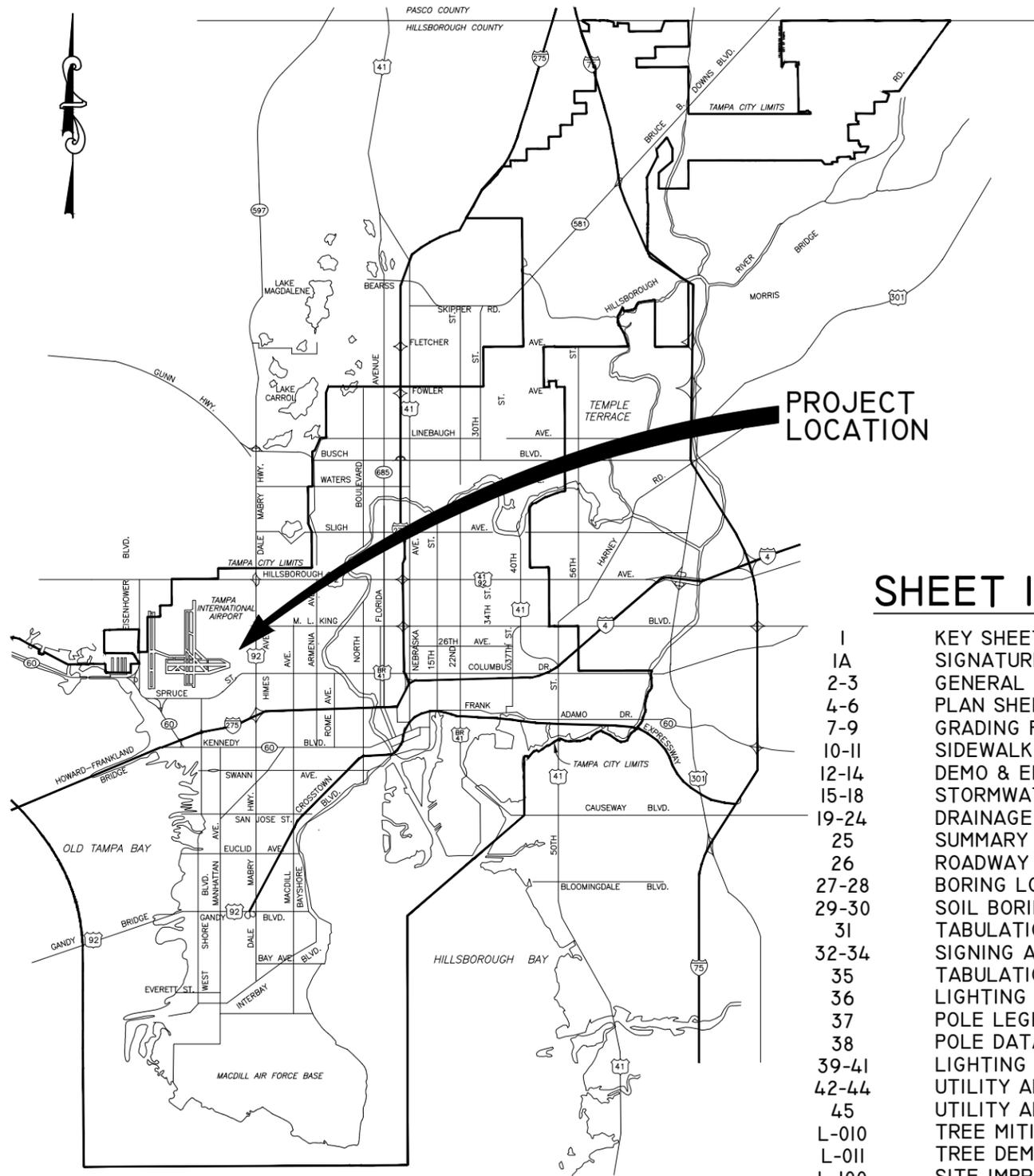
GOVERNING DESIGN STANDARDS

CITY OF TAMPA TECHNICAL MANUAL AND FLORIDA DEPARTMENT OF TRANSPORTATION FY 2018-19 STANDARD PLANS FOR ROAD & BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRs ARE AVAILABLE AT THE FOLLOWING WEBSITE: [HTTP://WWW.FDOT.GOV/STANDARDPLANS](http://www.fdot.gov/standardplans)

GOVERNING DESIGN SPECIFICATIONS

CITY OF TAMPA JAN 2018 OR LATEST VERSION AND FDOT STANDARD SPECIFICATIONS FOR ROADWAY & BRIDGE CONSTRUCTION DIVISION I & II AS DIRECTED UNDER THE CITY OF TAMPA TECNICAL MANUAL.



PROJECT LOCATION

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L-400-L-440	IRRIGATION PLANS

Robin Hernandez, P.E.
P.E. No. 68411
JOHNSON, MIRMIRAN & THOMPSON, INC.
2000 East 11th Avenue, Suite 300
Tampa, FL 33605
Certificate of Authorization No. 5917

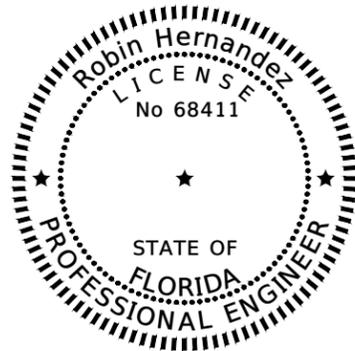
DES:	ED:	No.	DATE	REVISIONS
DRN:	ED:	3		
CKD:	RH:	2		
DATE:	9/2018:	1		

CITY of TAMPA
Department of Economic & Urban Development

KEY SHEET

SHEET

1



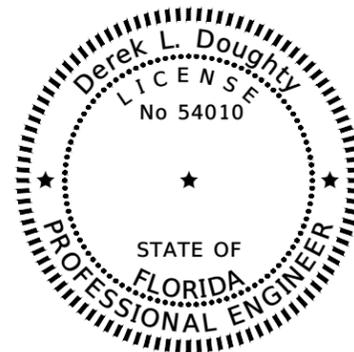
JOHNSON, MIRMIRAN & THOMPSON, INC.
 2000 EAST 11TH AVENUE, SUITE 300
 TAMPA, FL 33605
 CERTIFICATE OF AUTHORIZATION: 5917
 ROBIN HERNANDEZ, P.E. NO. 68411

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. THESE SHEETS HAVE BEEN DIGITALLY SIGNED AND SEALED ON 8/9/2018 USING A DIGITAL SIGNATURE.

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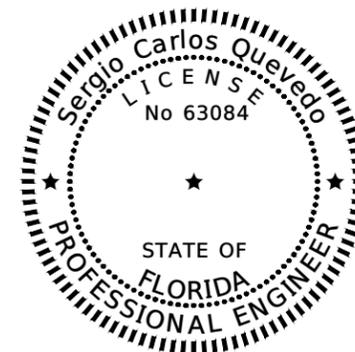
JOHNSON, MIRMIRAN & THOMPSON, INC.
 2000 EAST 11TH AVENUE, SUITE 300
 TAMPA, FL 33605
 CERTIFICATE OF AUTHORIZATION: 5917
 DEREK L. DOUGHTY, P.E. NO. 54010

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. THESE SHEETS HAVE BEEN DIGITALLY SIGNED AND SEALED ON 8/9/2018 USING A DIGITAL SIGNATURE.

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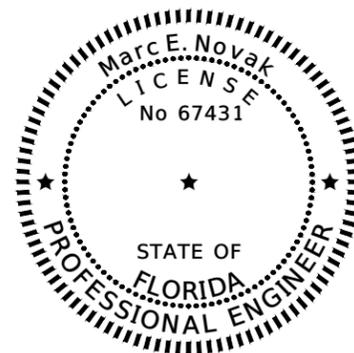
JOHNSON, MIRMIRAN & THOMPSON, INC.
 2000 EAST 11TH AVENUE, SUITE 300
 TAMPA, FL 33605
 CERTIFICATE OF AUTHORIZATION: 5917
 SERGIO CARLOS QUEVEDO, P.E. NO. 63084

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. THESE SHEETS HAVE BEEN DIGITALLY SIGNED AND SEALED ON 8/9/2018 USING A DIGITAL SIGNATURE.

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39-41	LIGHTING PLANS



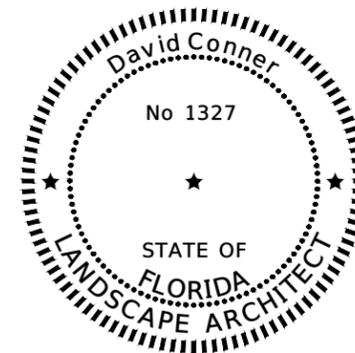
TIERRA, INC
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FL 33637
 CERTIFICATE OF AUTHORIZATION: 6486
 MARC E. NOVAK, Ph. D., P.E. NO. 67431

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. THESE SHEETS HAVE BEEN DIGITALLY SIGNED AND SEALED ON 8/9/2018 USING A DIGITAL SIGNATURE.

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26	ROADWAY SOIL SURVEY
27-28	BORING LOCATION PLANS
29-30	SOIL BORING PROFILES



DAVID CONNER & ASSOCIATES
 100 EAST MADISON STREET SUITE #200
 TAMPA, FL 33602
 DAVID CONNER, L.A. NO. 0000319

THE ABOVE NAMED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C. THESE SHEETS HAVE BEEN DIGITALLY SIGNED AND SEALED ON 8/9/2018 USING A DIGITAL SIGNATURE.

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2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 ROBIN HERNANDEZ, P.E. 68411

Drawn: ED	Date: 8/18				
Designed: RH	Date: 8/18				
Checked: RH	Date: 8/18				
Reviewed:	Date:				
Approved:	Date:				
Approved: Date:	No:	Date:	Revision:	By:	

CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 SIGNATURE SHEET

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 1A	

GENERAL SITE NOTES

1. SURVEY DATA BASED ON NAD 1983 (1990 ADJUSTMENT) ELEVATIONS REFER TO NAVD 1988.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL MARKERS AND PROPERTY CORNERS (MONUMENTS, PIPES, ETC.) FOR THE DURATION OF CONSTRUCTION, MARKERS SHALL BE CONTINUOUSLY FLAGGED AND SHALL BE RESET IMMEDIATELY BY A FLORIDA LICENSED LAND SURVEYOR IF ANY SHOULD BECOME DISTURBED.
3. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING THE WORK PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.
4. IF UTILITY FIELD LOCATIONS ARE REQUIRED, THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH ALL UTILITY COMPANIES AS WELL AS ANY AFFECTED CITY AND COUNTY DEPARTMENTS BY PROVIDING A MINIMUM OF 48 HOURS NOTICE OF WHEN CONSTRUCTION WILL COMMENCE IN AN AREA IN ORDER TO PERMIT FIELD LOCATION OF UTILITY LINES PRIOR TO CONSTRUCTION. A TOLL-FREE NUMBER, 1-800-432-4770 IS AVAILABLE TO ASSIST IN SUCH COORDINATION EFFORTS. THIS NUMBER IS PART OF THE UTILITY NOTIFICATION PROGRAM PROVIDED BY SUNSHINE STATE ONE CALL OF FLORIDA, INC. BUT DOES NOT NECESSARILY REPRESENT ALL UTILITY COMPANIES IN THE AREA.
5. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES AND ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, SIDEWALKS, RETAINING WALLS, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION WITH THE SAME MATERIAL REMOVED OR DAMAGED OR AS DIRECTED BY THE ENGINEER. (UNLESS OTHERWISE NOTED)
7. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WITH WHICH A CONFLICT HAS ARISEN DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
8. ALL FUGITIVE DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING, APPLICATION OF CALCIUM CHLORIDE OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INCORPORATED AS SOON AS POSSIBLE.
9. CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REWORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AS-BUILT INFORMATION SIGNED AND SEALED BY A LICENSED FLORIDA SURVEYOR. INFORMATION INCLUDING, BUT NOT LIMITED TO, FINISHED GRADE ELEVATIONS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN, TIES TO STORM SEWER LINES, STRUCTURE TOP AND INVERT ELEVATIONS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN.
11. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND/OR CITY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS.
12. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SITE EROSION AND SHALL PROVIDE ADDITIONAL SOD AS NECESSARY TO ACHIEVE A FULLY GRASSED SITE FREE FROM RUTTING, ETC. TO THE LINES & GRADES SHOWN HEREIN UPON FINAL ACCEPTANCE.

PAVING, DRAINAGE AND GRADING CONSTRUCTION NOTES

1. PAVEMENT AND GRADING SHALL BE SLOPED TO THE PROPOSED ELEVATIONS AND CONTOURS SHOWN ON THE DRAWINGS. SMOOTH, CONSTANT SLOPES SHALL BE MAINTAINED BETWEEN PROPOSED ELEVATIONS AND CONTOURS. PROPOSED CONTOUR ELEVATIONS, SPOT ELEVATIONS AND FINISHED GRADE ELEVATIONS IN NON-PAVED AREAS REFER TO FINISHED SURFACE ELEVATIONS ONCE SODDING IS COMPLETE.
2. CONTRACTOR TO MAINTAIN THE EXISTING DRAINAGE SYSTEMS DURING CONSTRUCTION. CONTRACTOR TO SUBMIT A DRAINAGE PLAN TO THE CITY OF TAMPA FOR APPROVAL IF DEVIATIONS FROM THE CONSTRUCTION PLANS ARE NECESSARY. PLANS SHALL BE DEVELOPED BY AN ENGINEER LICENSED IN THE STATE OF FLORIDA.
3. ALL EXISTING MANHOLES, VALVES, OR OTHER UTILITY FEATURES SHALL BE ADJUSTED TO THE FINISHED GRADE OF THE RECONSTRUCTED ROADWAY.
4. ALL EXISTING STORMWATER FACILITIES WITHIN THE RIGHT-OF-WAY ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL PROPOSED STORM SEWER PIPE (RCP OR ERCP) TO BE CLASS III UNLESS OTHERWISE NOTED ON PLANS.

ENVIRONMENTAL PROTECTION NOTES

1. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED TO THE ENGINEER & THE APPROPRIATE REGULATORY AUTHORITIES.
2. WHERE CONSTRUCTION IS NECESSARY ACROSS OR ADJACENT TO WETLAND JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT BARRIERS SHALL BE CONSIDERED AS LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.
3. SEDIMENT BARRIERS SHALL BE PLACED AT LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM LEAVING THE SITE. THESE BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING WITH ANY CONSTRUCTION. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL SEDIMENT BARRIERS INCLUDING DAILY INSPECTIONS TO CHECK THEIR INTEGRITY. ANY LOOSE OR DAMAGED SEDIMENT BARRIERS SHALL BE IMMEDIATELY REPAIRED OR REPLACED, AS NECESSARY. ONCE CONSTRUCTION IS COMPLETED AND FINISHED GRADING AND STABILIZATION HAS BEEN ACHIEVED, SEDIMENT BARRIERS SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE ENGINEER AND PRIOR TO FINAL ACCEPTANCE.
4. ALL WATER COLLECTED AND PUMPED DURING DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UNDISTURBED UPLAND AREAS OR ADEQUATE SEDIMENT BASINS PRIOR TO DISCHARGE. DEWATERING NEWER TREES SHALL BE SUPERVISED BY AN ARBORIST AND A WATERING SCHEDULE SHALL BE EMPLOYED IF NECESSARY.
5. TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO UNDISTURBED WETLANDS WHERE SEDIMENTATION FROM STOCKPILES MAY CAUSE DAMAGE TO WETLAND. ADDITIONALLY, SEDIMENT BARRIERS SHALL CONTINUOUSLY AND FULLY ENCIRCLE ALL STOCKPILES WHICH WILL REMAIN FOR LONGER THAN 24 HOURS TO CONTAIN MATERIALS WITHIN A REASONABLY CONFINED AREA.
6. THE CONTRACTOR SHALL NOT REMOVE ANY TREES OTHER THAN THOSE SPECIFICALLY SHOWN TO BE REMOVED ON THE LANDSCAPING PLANS. IF ANY TREES ARE REMOVED IN WETLAND JURISDICTIONAL AREAS WITHOUT PROPER AUTHORIZATION, CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A DETAILED RESTORATION AND/OR MITIGATION PLAN, SUBMITTING PLAN TO AND OBTAINING APPROVAL FROM SWFWMD, AND COMPLETING ANY MONITORING AND MAINTENANCE REQUIREMENTS IMPOSED AS A RESULT OF TREE REMOVAL.
7. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED. NO ACTIVITIES (EQUIPMENT, FILL PLACEMENT, ETC.) SHALL TAKE PLACE AT THE DRIPLINE OR AT THE MINIMUM PROTECTIVE RADIUS ZONE - 10 FT. FOR PROTECTED TREES, 20 FT. FOR GRAND TREES. THE TREES TO REMAIN. THE CONTRACTOR SHALL PROTECT TREES WITH SUITABLE BARRICADES.
8. ONCE INSTALLED, ALL PROTECTIVE TREE BARRICADES SHALL BE INSPECTED BY THE CITY OF TAMPA PARKS AND RECREATION DEPARTMENT PRIOR TO THE ISSUANCE OF THE CONSTRUCTION PERMIT.
9. THE CONTRACTOR SHALL CONTACT THE CITY'S ENVIRONMENTAL MANAGEMENT, SOLID WASTE DEPARTMENT AT 813-348-1118 IF A SHEEN OVER A LARGE AREA IS OBSERVED OR A CHEMICAL ODOR IS DETECTED DURING CONSTRUCTION.

INSTRUCTIONS FOR MAINTENANCE AND INSPECTION OF STORMWATER FACILITIES

1. SEDIMENT SUMPS AND SEDIMENT BASINS, IF DESIGNED AND INSTALLED, SHOULD HAVE SEDIMENT REMOVED AS NECESSARY TO ALLOW THEM TO EFFICIENTLY REMOVE SUSPENDED PARTICLES. THEY SHOULD BE RE-EXCAVATED TO THE DESIGN FINISHED GRADE ELEVATIONS, IF SILTED IN.
2. SPECIFIC CONDITIONS OF ALL PERMITS MAY REQUIRE ADDITIONAL MAINTENANCE ACTIVITIES ABOVE AND BEYOND THOSE OUTLINED ABOVE. CHECK ALL PERMIT CONDITIONS AS ISSUED BY REGULATORY AGENCIES TO ENSURE PERMIT COMPLIANCE.

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2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 ROBIN HERNANDEZ, P.E. 68411

Drawn:	ED	Date:	05/18				
Designed:	ED	Date:	05/18				
Checked:	RH	Date:	05/18				
Reviewed:		Date:					
Approved:		Date:					
Approved:	Date:	No:	Date:	Revision:		By:	

CITY of TAMPA
 PLANNING & DEVELOPMENT
 DEPARTMENT

TAMPA BAY BLVD. LINEAR PARK
 GENERAL NOTES (1)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 2	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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LEGEND

EX STORMWATER	UP to 18" & SMALLER	24" & LARGER
FORCE MAIN		
PIPES & MANHOLES		
CATCH BASIN, GRATE		
DITCHES, SWALES		
PROP STORMWATER		
FORCE MAIN		
PIPES & MANHOLES		
OTHER UTILITIES		
SAN SEWER & MANHOLES		
WATER LINE		
GAS LINE		
ELECTRICAL CABLE or DUCT		
TELEPHONE CABLE or DUCT		
TV CABLE		
VALVE		
HYDRANT		
CLEAN OUT		
EXISTING WYE		
POWER POLE		
TELEPHONE POLE		
GUY POLE		
GUY WIRE		
VALVE VAULT		
WATER METER		
ELECTRICAL MANHOLE or VAULT		
TELEPHONE MANHOLE VAULT		
TRAFFIC BOX or VAULT		
OTHER FEATURES		
RIGHT of WAY LINE		
EDGE of PAVEMENT		
BUILDING LIMIT		
PROPERTY OWNERSHIP		
FENCE		
HEDGE		
RAILROAD TRACKS		
IRON PIPE		
CONCRETE MONUMENT		

ABBREVIATIONS

TOP of PIPE	TP
INVERT ELEVATION	IE or INV EL
RIGHT of WAY	R/W
MANHOLE	MH
POLYVINYL CHLORIDE PIPE	PVCP
VITRIFIED CLAY PIPE	VCP
ADVANCED DRAINAGE SYSTEM	ADS
DUCTILE IRON PIPE	DIP
REINFORCED CONCRETE PIPE	RCP
CONCRETE PIPE	CP
APPROXIMATE LOCATION	AL
BENCH MARK	BM
POINT of INTERSECTION	PI
BACK OF SIDEWALK	BOS

TREE LEGEND

	OAK TREE
	PALM TREE
	PINE TREE
	MAGNOLIA TREE
	CEDAR TREE
	CREPE MYRTLE TREE
	BOTTLEBRUSH TREE
	MAPLE TREE
	MELALEUCA TREE
	PLUM TREE
	LAUREL TREE

SUBSURFACE UTILITY INFORMATION

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station	Offset	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
CITY OF TAMPA	03/28/18	1-1	2" CI FM	35+88.22	+8.90	24.07	0.38	23.69	32	•	↕	24	NG	N/A
CITY OF TAMPA	03/28/18	1-2	6" PVC FM	36+51.10	+32.82	25.86	6.52	19.34	32	●	↔	24	NG	N/A
CITY OF TAMPA	03/28/18	1-3	4" STL FM	38+84.95	+13.19	24.07	3.08	20.99	32	•	↕	24	NG	N/A
CITY OF TAMPA	03/28/18	1-4	10" CI WM	40+81.73	+26.17	28.47	2.08	26.39	32	●	↕	24	NG	N/A
CITY OF TAMPA	03/28/18	1-5	POSSIBLE 6" PVC FM	40+75.96	+26.58	28.47	5.63	22.84	32	●	↔	24	NG	N/A
CITY OF TAMPA	03/28/18	1-6	10" CI WM	40+73.10	+12.48	28.47	0.96	27.51	32	●	↕	24	NG	N/A
CITY OF TAMPA	03/29/18	1-7	10" CI WM	40+64.92	-38.84	30.16	4.36	25.80	32	●	↕	22	NG	N/A
CITY OF TAMPA	03/29/18	1-8	POSSIBLE 10" DIP FM	40+55.70	-22.31	30.16	5.64	24.52	32	●	↔	24	NG	N/A
CITY OF TAMPA	03/29/18	1-9	6" CI WM	41+54.23	-77.69	30.10	2.46	27.64	32	●	↔	24	NG	N/A
CITY OF TAMPA	03/28/18	1-10	6" PVC FM	42+42.10	+26.79	30.10	3.80	26.30	32	●	↔	24	NG	N/A
CITY OF TAMPA	03/29/18	1-11	6" PVC FM	43+32.12	+28.55	32.52	1.86	30.66	32	●	↔	24	NG	N/A
CITY OF TAMPA	03/29/18	1-12	6" PVC FM	43+60.08	+29.27	32.52	3.82	28.70	32	●	↔	24	NG	N/A

- Notes:**
- All Station and Offset information contained herein is referenced to the Baseline of Survey, as depicted in the electronic file "Linear Park_Surface.dwg", provided by JMT. Positive Offsets are to the right of the baseline and negative offsets are left thereof.
 - TH1-5: Unable to verify size of utility due to cave-in and debris.
 - TH1-8: Unable to verify size or material of utility due to cave-in and water.
 - TH1-7 and TH1-8: Moved from requested location due to concrete lined drainage ditch.



2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
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Approved:	Date:	No:	Date:
		Revision:	By:

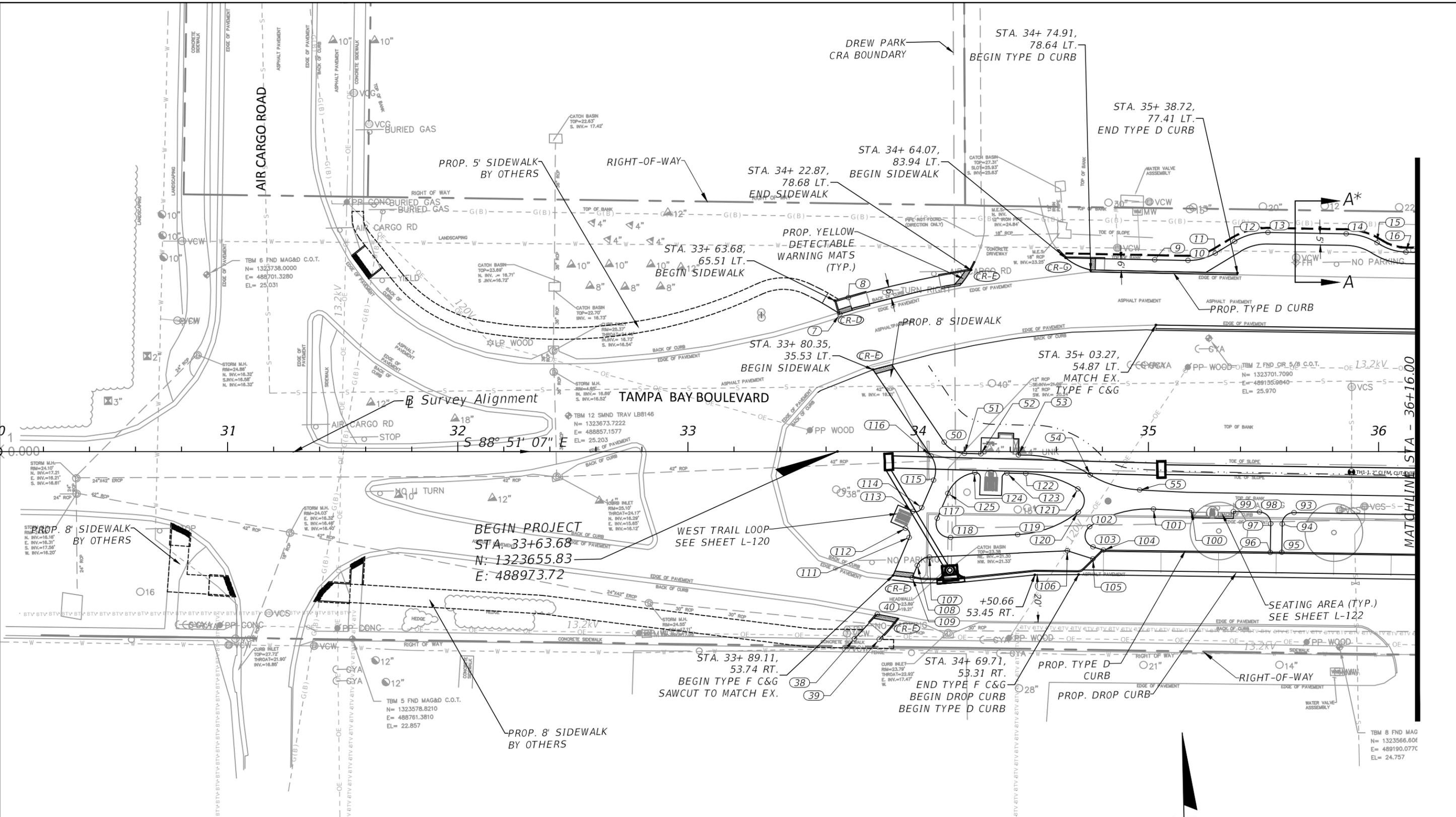
CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 GENERAL NOTES (2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 3	

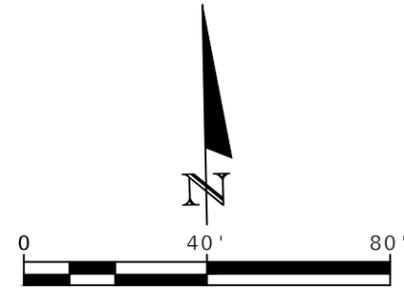
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NOTES

- ⊗ SUBSURFACE UTILITY TEST HOLE INFORMATION. SEE GENERAL NOTES
- * SIDEWALK SECTION DETAIL. SEE SHEET 11.
- (X) SIDEWALK STATION & OFFSET POINTS SEE SHEET 10-11
- LIMITS OF ROOT PRUNING



2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813) 314-0314 FAX: (813) 314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 ROBIN HERNANDEZ, P.E. 68411

Drawn:	ED	Date:	8/18
Designed:	RH	Date:	8/18
Checked:	RH	Date:	8/18
Reviewed:		Date:	
Approved:		Date:	
Approved:		Date:	
Revision:	No:	Date:	
			By:

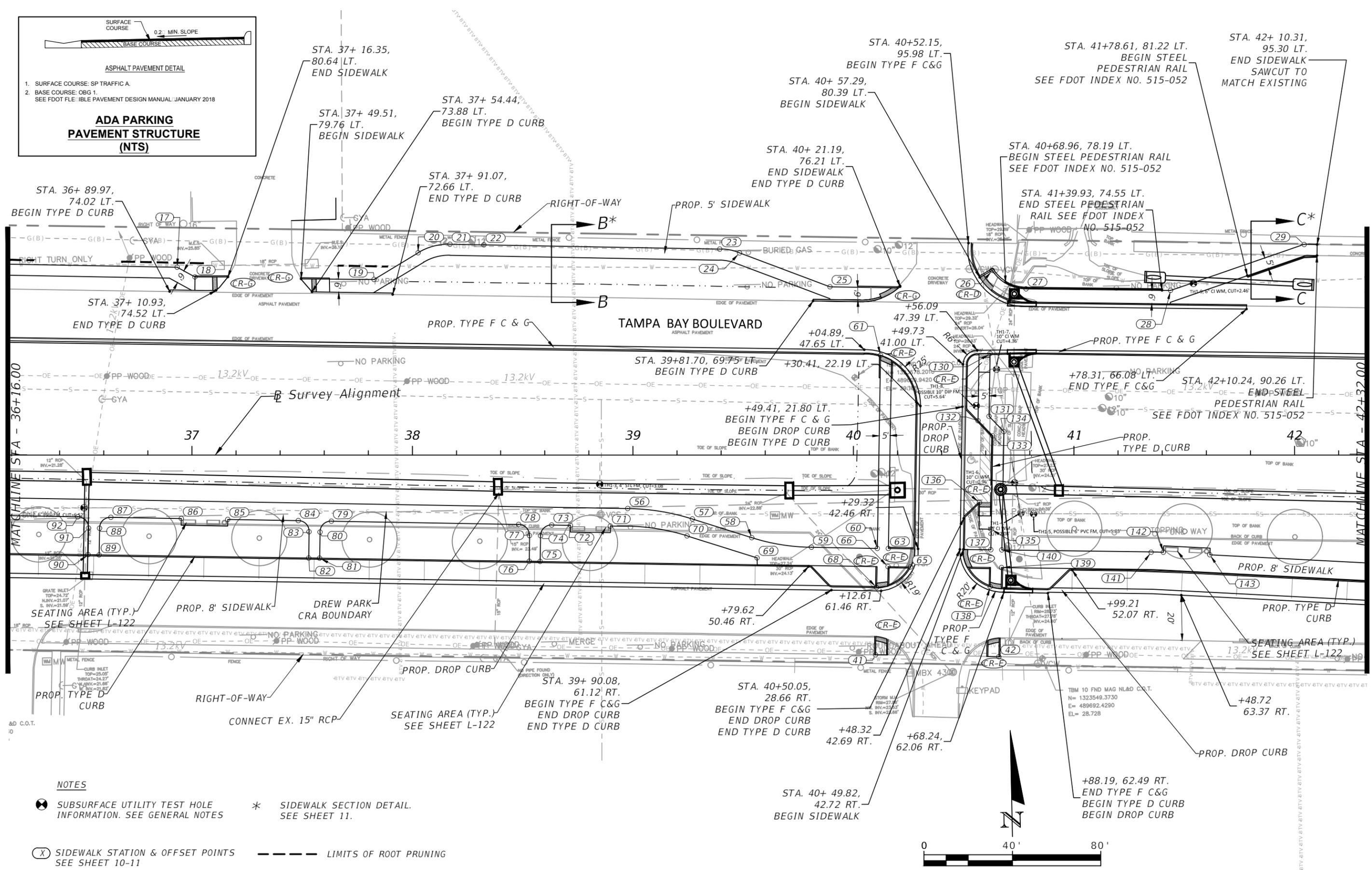
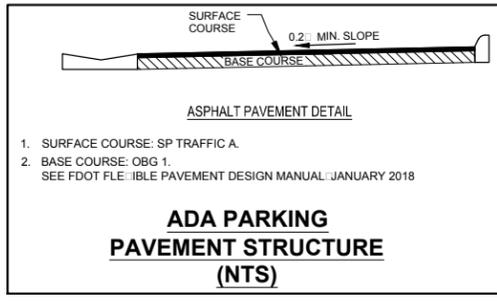
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 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 PLAN SHEET (1)

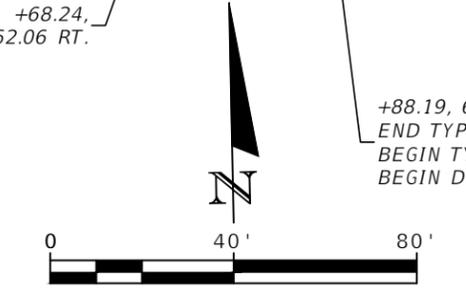
Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 4	

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- NOTES**
- ⊗ SUBSURFACE UTILITY TEST HOLE INFORMATION. SEE GENERAL NOTES
 - * SIDEWALK SECTION DETAIL. SEE SHEET 11.
 - (X) SIDEWALK STATION & OFFSET POINTS SEE SHEET 10-11
 - LIMITS OF ROOT PRUNING



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		Revision:	By:

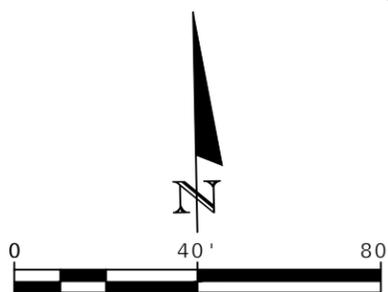
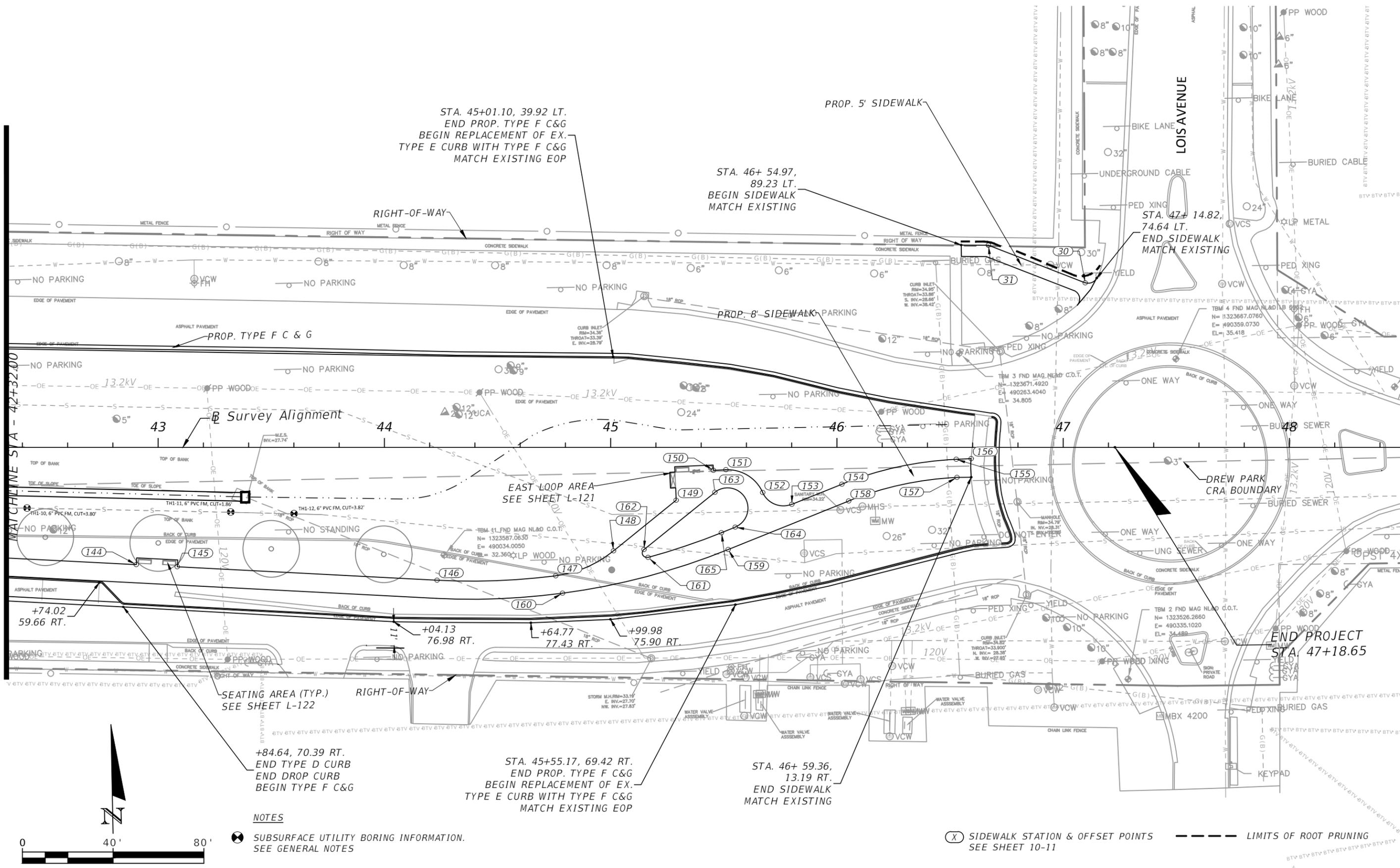
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 DEPARTMENT OF ECONOMIC & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 PLAN SHEET (2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 5	

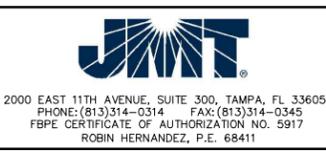
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NOTES
 (X) SUBSURFACE UTILITY BORING INFORMATION. SEE GENERAL NOTES

(X) SIDEWALK STATION & OFFSET POINTS SEE SHEET 10-11
 --- LIMITS OF ROOT PRUNING



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Revision:		By:	

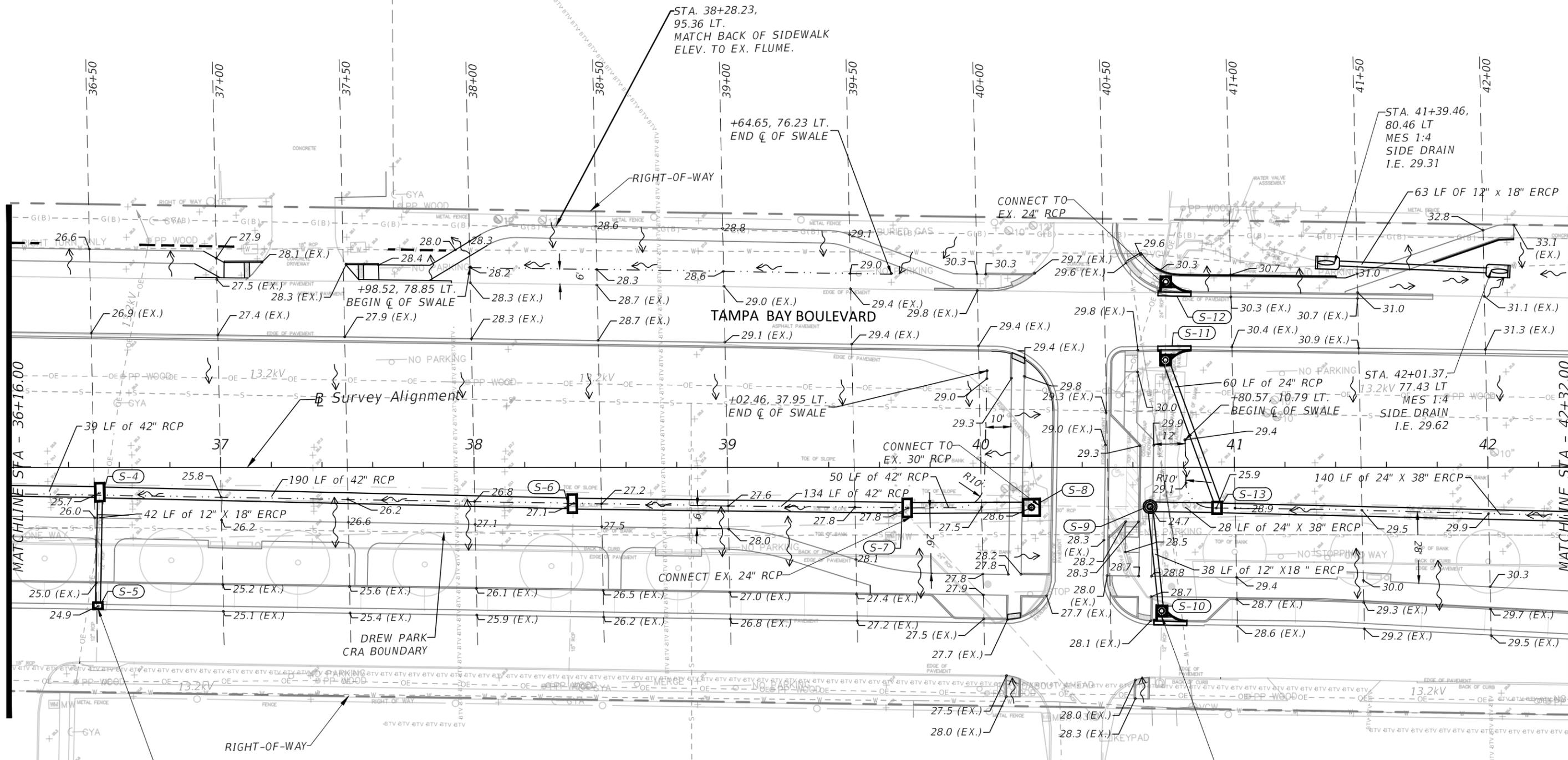
CITY of TAMPA
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TAMPA BAY BLVD. LINEAR PARK
 PLAN SHEET (3)

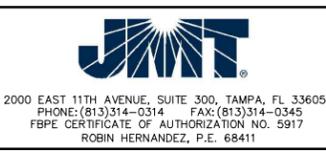
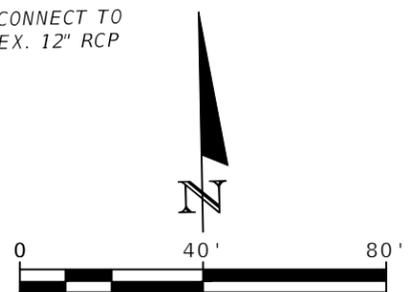
Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 6	

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EX. = EXISTING ELEVATION FROM SURVEY
 LIMITS OF ROOT PRUNING - - - -
 BREAKLINES - - - - -



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Approved:	Date:	No:	Date:
		Revision:	By:

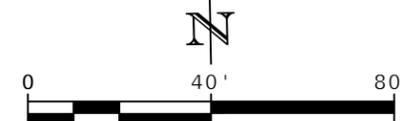
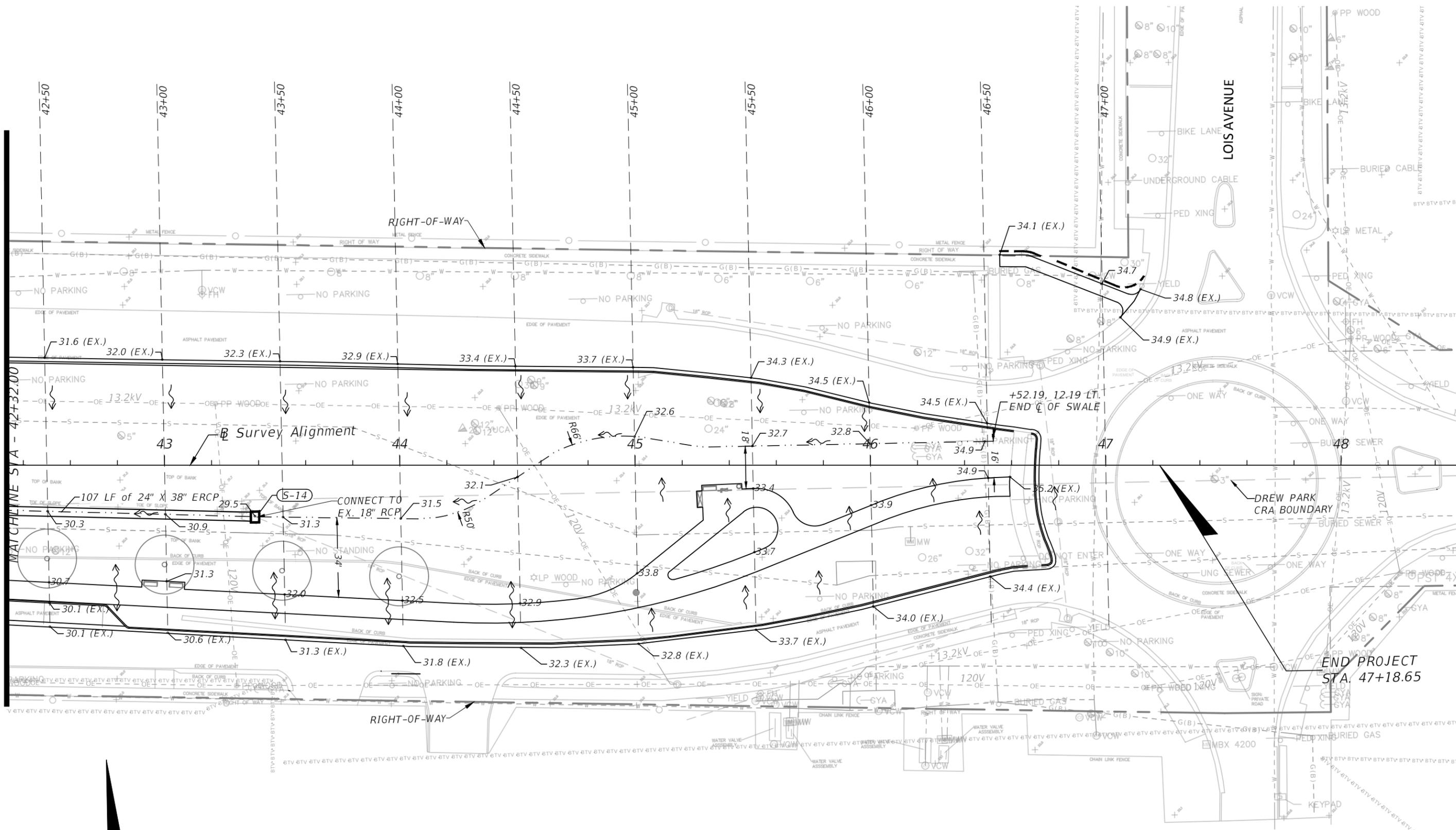
CITY of TAMPA
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TAMPA BAY BLVD. LINEAR PARK
 GRADING PLAN SHEET (2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 8	

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EX. = EXISTING ELEVATION FROM SURVEY
 LIMITS OF ROOT PRUNING - - - - -

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 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 ROBIN HERNANDEZ, P.E. 68411

Drawn:	ED	Date:	8/18
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Approved:		Date:	
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		Revision:	By:

CITY of TAMPA
 DEPARTMENT OF ECONOMIC
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TAMPA BAY BLVD. LINEAR PARK
 GRADING PLAN SHEET (3)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 9	

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Point	Station	Offset	Side	Elevation	Radius (ft.)
7	33+65.94	59.59	LT	25.24	445
8	33+69.70	66.76	LT	25.66	
End Sdwk	34+22.87	76.68	LT	-	
9	35+02.79	83.16	LT	26.27'	22
10	35+17.23	82.86	LT	26.36'	
11	35+29.08	86.02	LT	26.37'	27
12	35+37.48	91.10	LT	26.32'	
13	35+51.92	94.99	LT	25.45'	27
14	35+85.95	94.39	LT	25.49'	
15	35+99.33	90.57	LT	26.10'	22
16	36+11.86	86.48	LT	26.29'	
17	36+93.32	85.04	LT	27.74'	
18	37+01.41	80.59	LT	27.92'	27
19	37+82.62	79.48	LT	28.55'	
20	38+02.57	91.54	LT	28.45'	
21	38+17.09	95.43	LT	28.56'	27
22	38+32.45	95.12	LT	28.59'	
23	39+39.40	93.21	LT	29.06'	27
24	39+48.39	91.50	LT	29.10'	
25	39+89.41	76.14	LT	30.17'	19
26	40+62.98	83.58	LT	29.57'	
27	40+78.28	75.21	LT	30.37'	
28	41+43.86	74.51	LT	30.88'	4
29	42+04.43	95.27	LT	33.01	
30	47+09.77	72.58	LT	34.92'	
End Sdwk	47+14.82	74.64	LT	-	4
31	46+66.97	89.12	LT	34.39'	
38	33+72.29	81.24	RT	23.77	
39	33+83.09	81.41	RT	23.80	11
40	33+82.21	70.53	RT	23.61'	
41	40+10.02	90.36	RT	27.99'	
42	40+65.94	91.22	RT	28.37'	11
50	34+11.27	4.05	LT	25.01'	
51	34+20.07	0.79	RT	24.93'	
52	34+27.22	0.99	RT	24.93'	

Point	Station	Offset	Side	Elevation	Radius (ft.)
53	34+43.55	1.46	RT	25.01'	54
54	34+74.75	10.13	RT	25.13'	
55	34+96.25	16.67	RT	25.11'	46
56	38+97.69	24.21	RT	27.95'	
57	39+26.97	28.94	RT	28.07'	
58	39+53.90	37.37	RT	28.10'	98
59	39+80.96	41.73	RT	28.11'	
60	40+10.82	42.24	RT	27.85'	92
61	40+12.29	45.12	LT	29.38'	
63	40+15.83	42.26	RT	28.21'	5
65	40+25.92	50.65	RT	28.19'	
66	40+15.69	50.50	RT	28.05'	
68	40+10.53	59.93	RT	27.38'	98
69	39+56.30	46.50	RT	27.91'	
70	39+24.58	36.57	RT	27.89'	
71	38+89.80	32.08	RT	27.69'	5
72	38+71.63	31.76	RT	27.52'	
73	38+63.23	31.62	RT	27.47'	5
74	38+58.14	36.53	RT	27.32'	
75	38+57.94	48.14	RT	27.09'	
76	38+52.97	48.07	RT	27.05'	5
77	38+53.14	36.45	RT	27.28'	
78	38+48.23	31.36	RT	27.33'	
79	37+63.25	29.90	RT	26.52'	5
80	37+58.16	34.81	RT	26.37'	
81	37+57.96	46.64	RT	26.14'	5
82	37+52.98	46.57	RT	26.09'	
83	37+53.16	34.73	RT	26.33'	
84	37+48.25	29.64	RT	26.38'	5
85	37+16.30	29.09	RT	26.16'	
86	36+95.21	28.73	RT	26.05'	
87	36+63.27	28.18	RT	25.92'	5
88	36+58.18	33.10	RT	25.80'	
89	36+57.97	45.15	RT	25.56'	5
90	36+52.97	45.07	RT	25.53'	
91	36+53.18	33.01	RT	25.76'	
92	36+48.27	27.93	RT	25.83'	5
93	35+63.27	26.47	RT	25.30'	
94	35+58.18	31.38	RT	25.18'	

Point	Station	Offset	Side	Elevation	Radius (ft.)
95	35+57.97	43.65	RT	24.93'	5
96	35+52.98	43.75	RT	24.91'	
97	35+53.18	31.29	RT	25.15'	
98	35+48.27	26.21	RT	25.23'	46
99	35+36.94	26.02	RT	25.18'	
100	35+18.80	25.70	RT	25.11'	5
101	35+02.20	24.97	RT	25.00'	
102	34+74.46	32.63	RT	24.68'	
103	34+75.99	41.32	RT	24.52'	6
104	34+80.51	42.75	RT	24.52'	
105	34+75.90	46.54	RT	24.41'	3
106	34+64.80	43.03	RT	24.29'	
107	34+04.91	45.72	RT	24.06'	
108	33+99.66	49.37	RT	24.03'	3
109	33+97.41	54.66	RT	23.94'	
111	33+96.12	37.24	RT	24.29'	11
112	33+94.53	33.30	RT	24.38'	
113	33+97.66	25.94	RT	24.51'	
114	34+01.59	24.35	RT	24.53'	6
115	34+06.67	12.40	RT	24.68'	
116	34+05.66	1.94	RT	24.90'	6
117	34+08.33	28.96	RT	24.35'	
118	34+14.12	37.30	RT	24.19'	
119	34+43.21	35.99	RT	24.30'	46
120	34+69.53	26.24	RT	24.66'	
121	34+69.36	16.23	RT	24.86'	46
122	34+46.78	9.55	RT	24.85'	
123	34+38.53	9.32	RT	24.83'	
124	34+24.66	9.13	RT	24.76'	15
125	34+12.93	18.12	RT	24.57'	
130	40+61.98	46.01	LT	30.07'	15
131	40+61.53	17.56	LT	29.85'	
132	40+56.50	15.58	LT	29.46'	
133	40+63.19	8.66	LT	29.77'	15
134	40+68.22	10.65	LT	29.71'	
135	40+62.48	33.54	RT	28.80'	15
136	40+57.18	21.45	RT	28.22'	
137	40+62.32	42.87	RT	28.73'	



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CITY of TAMPA
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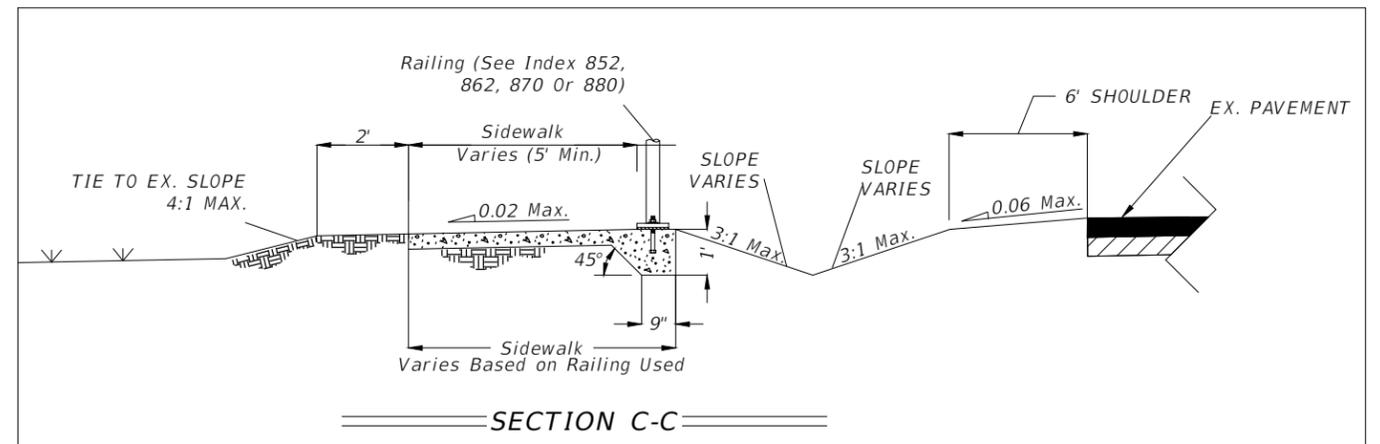
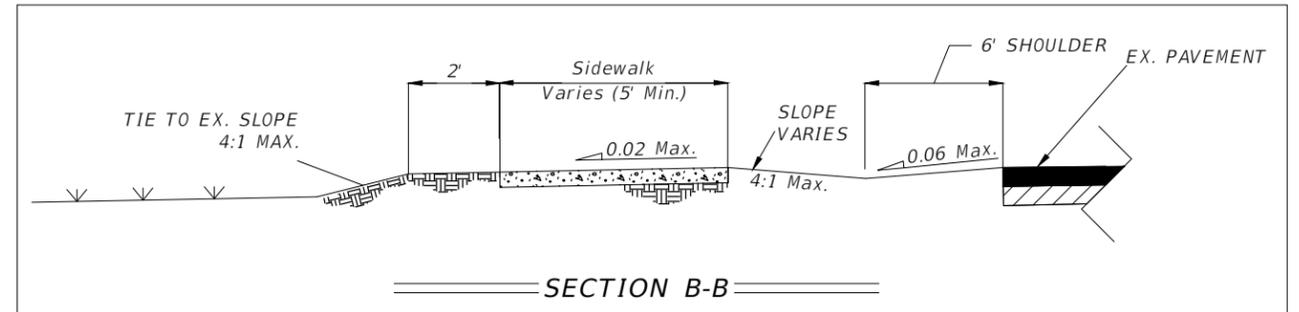
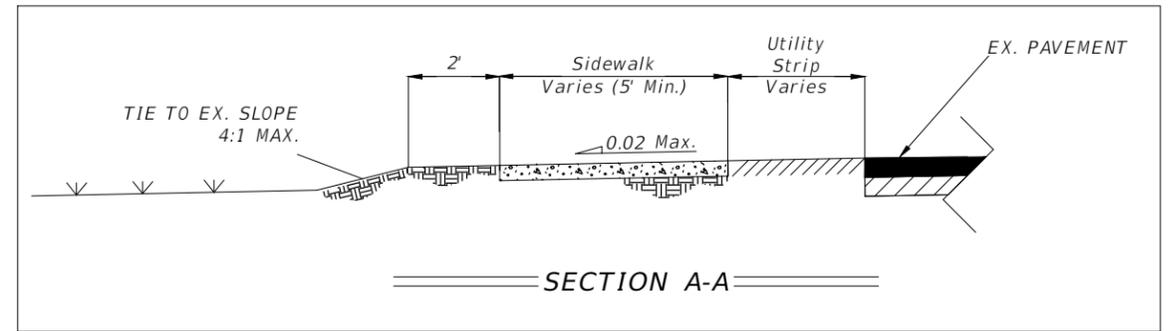
TAMPA BAY BLVD. LINEAR PARK
 SIDEWALK STATION & OFFSET (1)

Field Book:
 Atlas Sheet:
 File No. Index No.
 Job No.
 Scale:
 SHEET 10

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Point	Station	Offset	Side	Elevation	Radius (ft.)	
138	40+62.04	59.61	RT	28.40'		
139	40+67.19	50.93	RT	28.66'		
140	40+67.32	42.94	RT	28.83'		
141	41+35.06	43.99	RT	29.85'		
142	41+40.57	44.01	RT	29.88'		
143	41+61.62	45.09	RT	30.06'		
144	42+90.36	51.75	RT	31.21'		
145	43+08.51	52.68	RT	31.37'		
146	44+23.32	58.61	RT	32.68'	296	50
147	44+75.78	56.66	RT	33.23'		
148	45+01.26	45.67	RT	33.78'		
149	45+28.97	23.35	RT	33.06'		
150	45+45.39	10.12	RT	33.33'		
151	45+50.96	9.87	RT	33.39'	17	10
152	45+67.25	19.93	RT	33.59'		
153	45+80.11	25.14	RT	33.81'		
154	46+02.22	16.25	RT	33.96'	154	
155	46+52.75	5.30	RT	35.09'		
156	46+59.33	5.00	RT	35.25'		
157	46+53.10	13.29	RT	35.10'	146	
158	46+05.20	23.68	RT	34.12'		
159	45+51.97	45.08	RT	33.87'	304	
160	44+78.74	64.34	RT	33.11'		
161	45+16.54	48.56	RT	33.12'	2	
162	45+14.76	45.07	RT	33.06'		
163	45+46.07	19.84	RT	33.44'	9	
164	45+55.08	35.20	RT	33.72'		
165	45+48.98	37.65	RT	33.64'		



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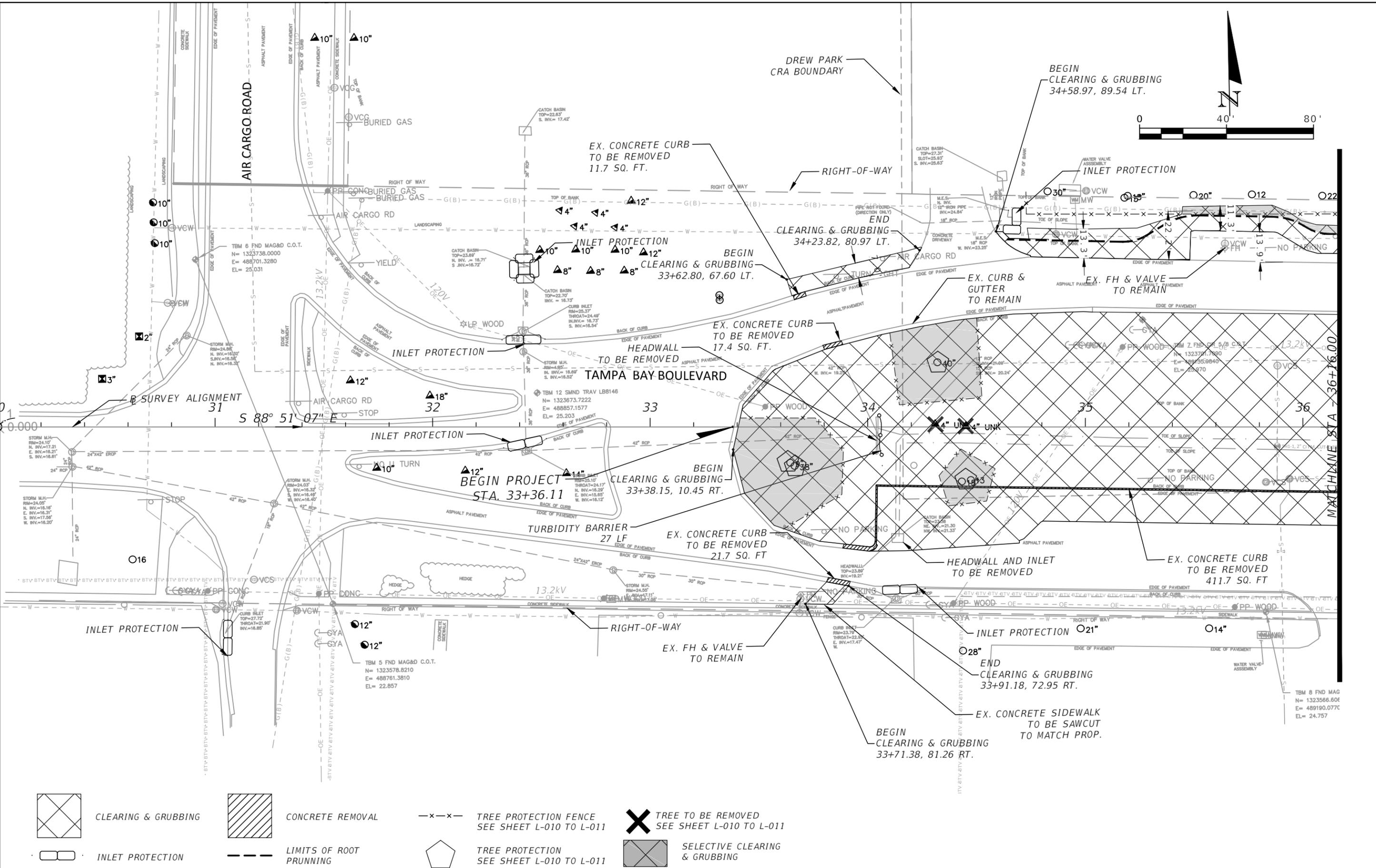
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TAMPA BAY BLVD. LINEAR PARK
 SIDEWALK STATION & OFFSET (2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 11	

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- CLEARING & GRUBBING
- CONCRETE REMOVAL
- LIMITS OF ROOT PRUNNING
- TREE PROTECTION FENCE SEE SHEET L-010 TO L-011
- TREE TO BE REMOVED SEE SHEET L-010 TO L-011
- SELECTIVE CLEARING & GRUBBING
- INLET PROTECTION
- TREE PROTECTION SEE SHEET L-010 TO L-011

Drawn: ED	Date: 8/18			
Designed: RH	Date: 8/18			
Checked: RH	Date: 8/18			
Reviewed:	Date:			
Approved:	Date:			
Approved:	Date:	No:	Date:	Revision:
				By:

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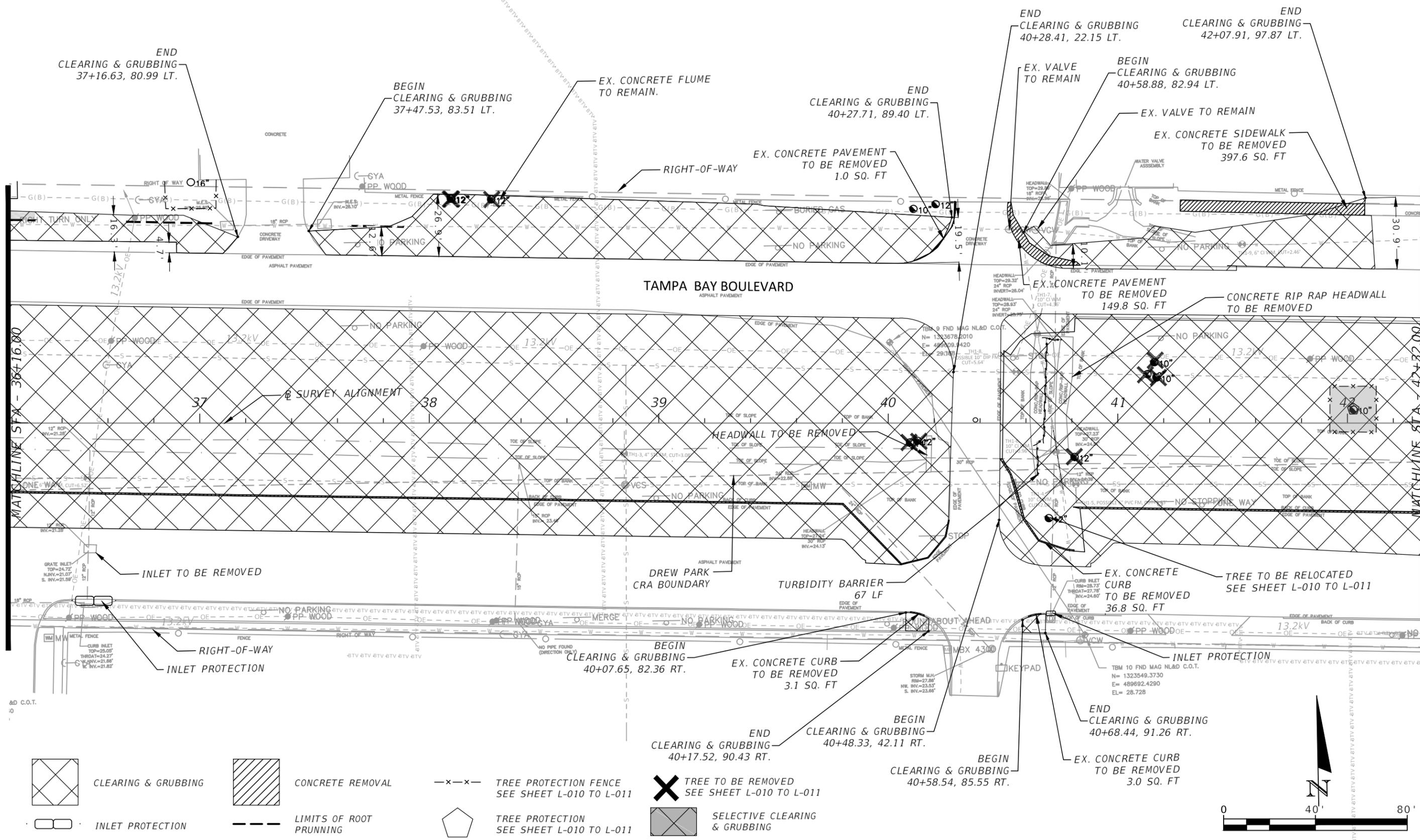
**TAMPA BAY BLVD. LINEAR PARK
DEMO & EROSION
CONTROL SHEET (1)**

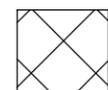
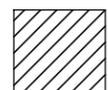
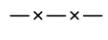
Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 12	

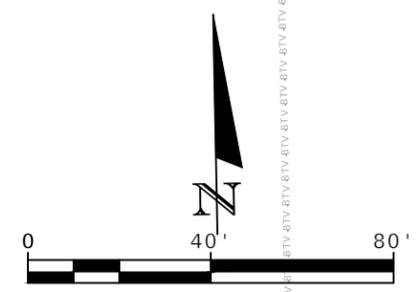
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-  CLEARING & GRUBBING
-  CONCRETE REMOVAL
-  TREE PROTECTION FENCE SEE SHEET L-010 TO L-011
-  TREE TO BE REMOVED SEE SHEET L-010 TO L-011
-  SELECTIVE CLEARING & GRUBBING
-  LIMITS OF ROOT PRUNNING
-  TREE PROTECTION SEE SHEET L-010 TO L-011
-  INLET PROTECTION



JMT
 2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 ROBIN HERNANDEZ, P.E. 68411

Drawn:	ED	Date:	05/18
Designed:	ED	Date:	05/18
Checked:	RH	Date:	05/18
Reviewed:		Date:	
Approved:		Date:	
Approved:		Date:	
No:		Date:	
Revision:			
By:			

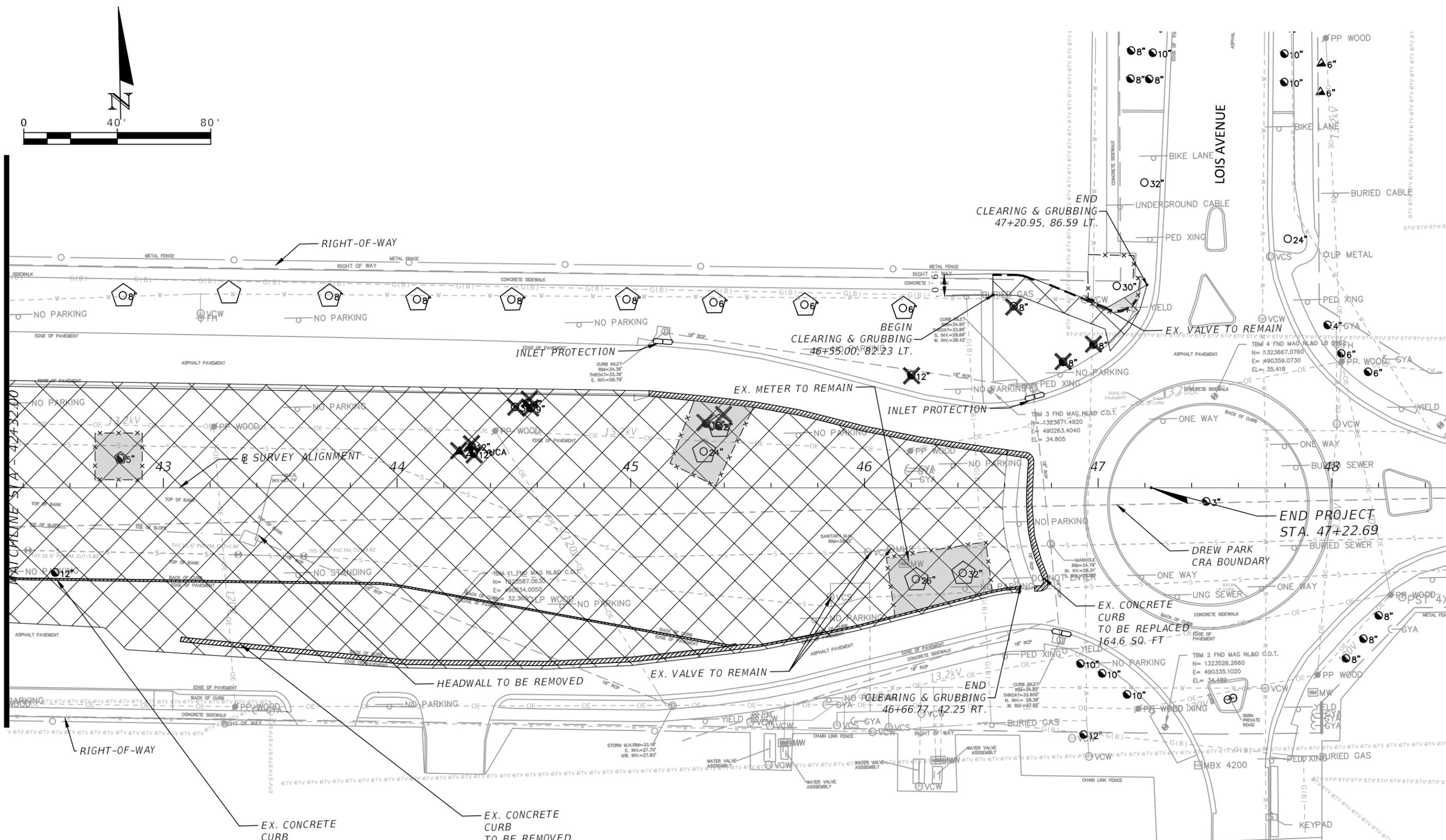
CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

**TAMPA BAY BLVD. LINEAR PARK
 DEMO & EROSION
 CONTROL SHEET (2)**

Field Book:	
Atlas Sheet:	
File No.:	Index No.
Job No.:	
Scale:	
SHEET 13	

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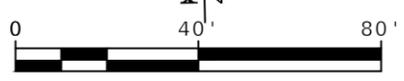
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	CLEARING & GRUBBING		CONCRETE REMOVAL		TREE PROTECTION FENCE SEE SHEET L-010 TO L-011		TREE TO BE REMOVED SEE SHEET L-010 TO L-011
	INLET PROTECTION		LIMITS OF ROOT PRUNING		TREE PROTECTION SEE SHEET L-010 TO L-011		SELECTIVE CLEARING & GRUBBING

EX. CONCRETE CURB TO BE REMOVED 877.6 SQ. FT

EX. CONCRETE CURB TO BE REMOVED 552.2 SQ. FT




2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
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CITY of TAMPA
 DEPARTMENT OF ECONOMIC & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 DEMO & EROSION CONTROL SHEET (3)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 14	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

THE GENERAL CONTRACTOR WILL FILL IN THE BLANKS AS THE REQUIRED INFORMATION IS KNOWN. THE GENERAL CONTRACTOR WILL ENSURE ALL SUBCONTRACTORS SIGN THIS SWPPP AND THAT THEY UNDERSTAND AND COMPLY WITH THIS PLAN.

GENERAL NOTES

1. FEDERAL LAW PROHIBITS THE POINT SOURCE DISCHARGE OF POLLUTANTS, INCLUDING THE DISCHARGE OF STORMWATER ASSOCIATED WITH LARGE OR SMALL CONSTRUCTION ACTIVITIES TO WATERS OF THE UNITED STATES WITHOUT A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. UNDER THE STATE OF FLORIDA'S AUTHORITY TO ADMINISTER THE NPDES STORMWATER PROGRAM, OPERATORS THAT HAVE STORMWATER DISCHARGE ASSOCIATED WITH LARGE OR SMALL CONSTRUCTION ACTIVITIES TO SURFACE WATERS OF THE STATE, INCLUDING THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), MUST OBTAIN COVERAGE EITHER UNDER THE GENERIC PERMIT OR AN INDIVIDUAL PERMIT.
2. THERE ARE SPECIFIC ELIGIBILITY CRITERIA AND LIMITATIONS ON COVERAGE THAT CAN BE REVIEWED IN THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (HENCEFORTH REFERRED TO AS "THE GENERIC PERMIT"). ACTIVITIES SPECIFICALLY DESCRIBED IN THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ARE COVERED. ANY ACTIVITY NOT SPECIFICALLY DISCUSSED IN THIS SWPPP MAY NOT BE COVERED AND SHOULD BE IMMEDIATELY IDENTIFIED TO THE SIGNATURE AUTHORITY (OWNER AND GENERAL CONTRACTOR) ON THE POSTED NOTICE OF INTENT (NOI).
3. OPERATORS SEEKING COVERAGE UNDER THIS GENERIC PERMIT TO AUTHORIZE STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR NEW LARGE OR SMALL CONSTRUCTION ACTIVITIES SHALL FILE AN NOI FOR COVERAGE UNDER THIS PERMIT AT LEAST TWO (2) DAYS BEFORE COMMENCEMENT OF CONSTRUCTION. SHOULD THE OPERATOR CHANGE DURING CONSTRUCTION, THE NEW OPERATOR SHALL FILE AN NOI FOR COVERAGE UNDER THIS PERMIT AT LEAST TWO (2) DAYS BEFORE ASSUMING CONTROL OF THE PROJECT AND THE PREVIOUS OPERATOR SHALL FILE A NOTICE OF TERMINATION (NOT) TO TERMINATE PERMIT COVERAGE.
4. A COPY OF THE NOI CONFIRMING COVERAGE UNDER THIS GENERIC PERMIT SHALL BE POSTED AT THE CONSTRUCTION SITE IN A PROMINENT PLACE FOR PUBLIC VIEWING (SUCH AS ALONGSIDE A BUILDING PERMIT).
5. THE PERIOD OF COVERAGE UNDER THIS GENERIC PERMIT IS EFFECTIVE TWO (2) DAYS AFTER THE DATE OF SUBMITTAL OF THE COMPLETE NOI TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). COVERAGE UNDER THIS GENERIC PERMIT IS LIMITED TO A TERM NOT TO EXCEED FIVE YEARS FROM THE EFFECTIVE DATE OF COVERAGE.
6. EXCEPT AS NOTED IN THE GENERIC PERMIT, ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY AND DISCHARGES OF MATERIAL OTHER THAN STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IN COMPLIANCE WITH AN FDEP PERMIT (OTHER THAN THIS PERMIT) ISSUED FOR THE DISCHARGE OR BE EXEMPT FROM PERMITTING.
7. THE FOLLOWING NON-STORMWATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORMWATER COMPONENT OF THE DISCHARGE IS IN COMPLIANCE WITH THE GENERIC PERMIT AND THE DISCHARGE ACTIVITIES ARE LISTED AND DESCRIBED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PROVIDED BELOW: DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, WATERS USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES (WASTEWATERS FROM A MORE THOROUGH CLEANING, INCLUDING THE USE OF DETERGENTS OR OTHER CLEANERS, IS NOT AUTHORIZED BY THIS PERMIT) OR CONTROL DUST, POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING, IRRIGATION DRAINAGE, ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS, PAVEMENT WASTEWATER WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILL MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED, AIR CONDITIONING CONDENSATE, SPRINGS, AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.
8. DISCHARGES RESULTING FROM GROUND WATER DEWATERING ACTIVITIES AT CONSTRUCTION SITES ARE NOT COVERED BY THIS PERMIT. APPLICANTS FOR THESE DISCHARGES MUST OBTAIN COVERAGE UNDER FDEP'S GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY.
9. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORMWATER DISCHARGE(S) FROM A FACILITY OR ACTIVITY SHALL BE PREVENTED IN ACCORDANCE WITH THE APPLICABLE STORMWATER POLLUTION PREVENTION PLAN FOR THE FACILITY OR ACTIVITY. THIS PERMIT DOES NOT RELIEVE THE OPERATOR OF THE REPORTING REQUIREMENTS OF 40 CFR PART 117 AND 40 CFR PART 302. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302, OCCURS DURING A 24 HOUR PERIOD:
 - A. THE OPERATOR IS REQUIRED TO NOTIFY THE STATE WARNING POINT (800.320.0519 OR 850.413.9911) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE;
 - B. THE OPERATOR SHALL SUBMIT WITHIN 14 CALENDAR DAYS OF KNOWLEDGE OF THE RELEASE A WRITTEN DESCRIPTION OF: THE RELEASE (INCLUDING THE TYPE AND ESTIMATE OF THE AMOUNT OF MATERIAL RELEASED), THE DATE THAT SUCH RELEASE OCCURRED, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND REMEDIAL STEPS TO BE TAKEN, TO FDEP, NPDES STORMWATER SECTION, MAIL STATION 2500, 2600 BLAIR STONE ROAD, TALLAHASSEE, FLORIDA 32399-2400.
 - C. THE SWPPP BELOW MUST BE MODIFIED WITHIN 14 CALENDAR DAYS OF THE KNOWLEDGE OF THE RELEASE TO: PROVIDE A DESCRIPTION OF THE RELEASE, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF THE RELEASE. IN ADDITION, THE PLAN MUST BE REVIEWED TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES, AND THE PLAN MUST BE MODIFIED WHERE APPROPRIATE.
10. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

1. A STORMWATER POLLUTION PREVENTION PLAN SHALL BE DEVELOPED AND IMPLEMENTED FOR EACH CONSTRUCTION-SITE COVERED BY THIS PERMIT. THE PLAN SHALL IDENTIFY POTENTIAL SOURCES OF POLLUTION THAT MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY. IN ADDITION, THE PLAN SHALL DESCRIBE AND ENSURE THE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES WHICH WILL BE USED TO REDUCE THE POLLUTANTS IN STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY AND TO ASSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT. FACILITIES MUST IMPLEMENT THE PROVISIONS OF THE STORMWATER POLLUTION PREVENTION PLAN REQUIRED UNDER THIS PART AS A CONDITION OF THIS PERMIT. FAILURE TO DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PART SHALL BE DEEMED A VIOLATION OF THIS PERMIT AND MAY RESULT IN ENFORCEMENT ACTION.
2. THE PERMITTEE SHALL AMEND THE PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OF THE STATE OR AN MS4, INCLUDING THE ADDITION OF OR CHANGE IN LOCATION OF STORMWATER DISCHARGE POINTS, AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN. THE PERMITTEE ALSO SHALL AMEND THE PLAN IF IT PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED IN THE GENERIC PERMIT OR IN OTHERWISE ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY. IN ADDITION, THE PLAN SHALL BE AMENDED TO IDENTIFY ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A MEASURE OF THIS SWPPP. AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATED, AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN. THE GENERAL CONTRACTOR'S ON-SITE PROJECT FOREMAN WILL ENSURE COMPLIANCE WITH ALL PROCEDURES OUTLINED IN THIS PLAN.

SITE DESCRIPTION

- I. SITE DESCRIPTION:
 - (1) NATURE OF CONSTRUCTION ACTIVITY:
THE PROPOSED IMPROVEMENTS ARE LOCATED IN HILLSBOROUGH COUNTY. THE CITY OF TAMPA PROPOSES TO CONSTRUCT A LINEAR PARK WITHIN THE MEDIAN OF TAMPA BAY BOULEVARD BETWEEN AIR CARGO ROAD AND LOIS AVENUE.

SEQUENCE OF MAJOR ACTIVITY	RESPONSIBLE CONTRACTOR/SUBCONTRACTOR	START DATE
A) INSTALL TEMPORARY PERIMETER EROSION AND SEDIMENT CONTROL – SILT FENCE		
B) CLEAR AND GRUB		
C) PILE AND REMOVE EXCESS TOP SOIL		
D) PERFORM EXCAVATION		
E) STABILIZE DENUDED AREAS AND STOCKPILES WITHIN 14 CALENDAR DAYS OF THE LAST CONSTRUCTION ACTIVITY IN A SPECIFIC AREA.		
F) INSTALL STORMWATER MANAGEMENT SYSTEM ALONG WITH TEMPORARY DRAIN SEDIMENT CONTROL		
G) ADD FILL, GRADE, AND STABILIZE		
H) COMPLETE FINAL GRADING AND INSTALL LAST OF SOD AND PLANTINGS		
J) WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND SITE IS STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL, RE-GRADE AND RE-SOD ANY AREAS DISTURBED BY REMOVAL ACTIVITIES.		

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2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
PHONE: (813)314-0314 FAX: (813)314-0345
FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
DEREK DOUGHTY, P.E. 54010

Drawn: ED	Date: 7/18				
Designed: ED	Date: 7/18				
Checked: DD	Date: 7/18				
Reviewed:	Date:				
Approved:	Date:				
Approved:	Date:	No:	Date:	Revision:	By:

CITY of TAMPA
DEPARTMENT OF ECONOMIC & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
STORMWATER POLLUTION PREVENTION PLAN (1)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 15	

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(2) INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

- (a) IN THE CONTRACTOR'S SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN PREPARE A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
- (b) THE CONTRACTOR WILL MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.
- (c) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL) LATEST EDITION.
- (d) THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.

(3) LIST OF INTENDED ACTIVITIES:

- (a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
- (b) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
- (c) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
- (d) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
- (e) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.
- (f) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION.

(4) PROJECT AREAS:

THE ESTIMATED TOTAL PROJECT AREA IS 8.5 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 3.3 ACRES.

(5) RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR:
 GRASSED AREAS ADJACENT TO ROADWAY: C=0.35
 IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
 DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUNOFF COEFFICIENT:
 BEFORE Cw (B) = 0.45 DURING: Cw (D) = 0.48 AFTER: Cw (A) = 0.45

THE RUNOFF COEFFICIENT DURING CONSTRUCTION, Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED AREAS.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:

THE SOIL WITHIN THE PROJECT AREA IS MYAKKA-URBAN LAND COMPLEX.

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
32-MYAKKA URBAN LAND COMPLEX	A/D	0.5' - 1.5'

REFERENCE: USDA SOIL SURVEY OF HILLSBOROUGH COUNTY FLORIDA

(7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

- (a) SITE MAP: INCLUDED WITH THESE SHEETS.
- (b) DRAINAGE MAPS OR MAPS WITH APPROPRIATE CONTOURS: N/A

(8) RECEIVING WATERS:

PROJECT DISCHARGES TO FISH CREEK (WBID 1594 - A COASTAL OLD TAMPA BAY TRIBUTARY)

THIS FACILITY DOES NOT DISCHARGE TO WATERS LISTED ON THE EPA APPROVED FDEP VERIFIED LIST OR ADOPTED TMDL FOR IMPAIRMENT DUE TO TOAL SUSPENDED SOLID, TURBIDITY, NUTRIENTS, DISSOLVED OXYGEN OR FECAL COLIFORM.

FOR LIST, GO TO:
[HTTP://WWW.DEP.STATE.FL.US/WATER/WATERSHEDS/ASSESSMENTS/a-list.htm](http://www.dep.state.fl.us/water/watersheds/assessments/a-list.htm) FOR IMPAIRMENT DUE TO TOTAL SUSPENDED SOLIDS.

(9) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT):

RECEIVING WATER BODY	DRAINAGE AREA (AC)	LATITUDE	LONGITUDE
(a) 1 - 42" RCP	16.8	N 27' 58' 26.7"	W 82' 31' 05.1"

(10) WETLAND AND/OR SURFACE WATER IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(11) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

- (a) EXISTING DRAINAGE FLOWS ARE TYPICALLY FROM EAST TO WEST. THE PROPOSED IMPROVEMENTS SHALL NOT MODIFY OR AFFECT THE EXISTING OFFSITE FLOW PATTERNS UNLESS SPECIFICALLY AUTHORIZED BY THE PERMITS.
- (b) OFFSITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
- (a) LOCATION OF PERMANENT CONTROLS: THE CURB INLETS/DITCH BOTTOM INLETS AND THE PROPOSED TRUNK LINE(S) ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE CONSTRUCTION PLANS.
- (b) STORMWATER RUNOFF SHALL BE CONVEYED TO EITHER TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR TO PERMANENT STORMWATER MANAGEMENT FACILITIES.
- (d) THE CONTRACTOR SHALL PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.

(12) STATE AND FEDERAL REGULATIONS:

PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:
 SWFWMD ERP

II. CONTROLS:

SEDIMENT AND EROSION CONTROLS:

(1) WATER QUALITY MONITORING:

- (a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.
- (b) THE CONTRACTOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIROMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

(2) STABILIZATION PRACTICES:

- (a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSION CONTROLLED PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL), LATEST EDITION.
- (b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.
- (c) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

(a) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

- (1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.
- (2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
- (3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(b) FLOATING TURBIDITY BARRIER

PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.

- (1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.
- (2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (<3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.
- (3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION
- (4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.
- (5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
- (6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS GREATER THAN 5.0'.

(c) INLET PROTECTION SYSTEM

PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

- (1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.
- (2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.
- (3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.

(d) SOIL TRACKING PREVENTION DEVICE

PURPOSE: TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.

- (1) USE ONE DEVICE PER MILE WITH A MINIMUM OF TWO PER PROJECT.
- (2) USE ADDITIONAL DEVICES FOR CONSTRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT OF WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.
- (3) RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE BASIS.
- (4) PROVIDING SOIL TRACKING PREVENTION DEVICES AT ALL INGRESS / EGRESS LOCATIONS.



2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 DEREK DOUGHTY, P.E. 54010

Drawn: ED	Date: 7/18			
Designed: ED	Date: 7/18			
Checked: DD	Date: 7/18			
Reviewed:	Date:			
Approved:	Date:			
Approved:	Date:	No:	Date:	Revision:
				By:

CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 STORMWATER POLLUTION
 PREVENTION PLAN (2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 16	

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(4) DEWATERING OPERATIONS (OPTIONAL – BASED ON PROJECT APPLICABILITY)

PURPOSE: DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF TURBID WATER WHEN WATERS OTHER THAN STORMWATER AND ACCUMULATED SURFACE WATERS MUST BE REMOVED FROM A LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED. THESE WATERS CAN INCLUDE GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS AND WATERS USED DURING CONSTRUCTION THAT MUST BE REMOVED FROM A WORK AREA.

- (1) ENVIRONMENTAL AGENCIES ARE ESPECIALLY CONCERNED WITH THE PROTECTION OF WETLANDS FROM DRAWDOWN EFFECTS, PROTECTING RECEIVING BODIES FROM SEDIMENTATION AND POSSIBLE CAPACITY LIMITATIONS.
- (2) THREE PRIMARY METHODS OF DEWATERING COMMONLY USED IN FLORIDA ARE RIM-DITCHING, SOCK/PIPE/HORIZONTAL WELLS AND WELL-POINT SYSTEMS.
- (3) METHODS FOR CONTAINING SEDIMENTATION CAN INCLUDE A COMBINATION OF BMP'S AND SEDIMENT TRAPS, SEDIMENT BASINS, GRAVITY BAG FILTERS, WEIR TANKS, DEWATERING TANKS, SAND MEDIA/PRESSURIZED BAGS AND CHEMICAL TREATMENTS.

(a) OFFSITE VEHICLE TRACKING – WILL BE CONTROLLED BY THE FOLLOWING METHODS:

- (1) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES.
- (2) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.
- (3) USING WATER TRUCKS DURING DUST GENERATING ACTIVITIES.

(b) NON-STORMWATER (INCLUDING SPILL REPORTING):

THE CONTRACTOR WILL PROVIDE THE FDOT WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE DISTRICT CONTAMINATION IMPACT COORDINATOR AT (813) 975-6923.

III. MAINTENANCE:

MAINTAIN AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED AND PROPERLY DISPOSAL OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

- (1) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- (2) SOIL TRACKING PREVENTION DEVICES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

IV. INSPECTION:

- (1) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

V. TRACKING AND REPORTING:

- (1) SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.
- (2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES OR LUMP SUM COST OF THE PROJECT.
- (3) USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater. It is the Contractor's responsibility to provide an on-site rain gauge to measure storm events.

Project Name: _____ FDEP NPDES Stormwater Identification Number: FLR10_____

Location	Rain data	Type of control(see below)	Date installed / modified	Current Condition(see below)	Corrective Action / Other Remarks

Condition Code:
 G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement
 C = Needs to be cleaned O = Other

Control Type Codes

1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond /Littoral Zone	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Hay Bales	34. Other
8. Pipe slope drain	17. Paved road surface	26. Geotextile	
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

Inspector Information:

Printed Name _____ Signature _____ Qualification _____ Date _____

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Responsible Authority) _____ Date _____

Note: The responsible Authority is the same individual who signed Section VI of the Notice of Intent or a duly appointed representative in accordance with section 62-620.315 F.A.C.. A copy of the letter must accompany this report.



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CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 STORMWATER POLLUTION
 PREVENTION PLAN (3)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 17	

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SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT:

- 1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE GENERAL CONTRACTOR'S ON-SITE PROJECT FOREMAN WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.

HAZARDOUS PRODUCTS

THESE PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

- 1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY CANNOT BE RESEALED.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL/STATE/FEDERAL RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE:

- 1. PETROLEUM PRODUCTS - ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
2. FERTILIZERS - FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
3. PAINTS - ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO ON-SITE OR CITY STORMWATER MANAGEMENT SYSTEMS, BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR LOCAL, STATE, FEDERAL REGULATIONS.
4. CONCRETE TRUCKS - CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THIS SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- 1. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, SHOVELS, RAGS, GLOVES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
4. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
5. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE STATE WARNING POINT AS EARLIER DESCRIBED AND THE CITY OF TAMPA, REGARDLESS OF SIZE.
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RE-OCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE GENERAL CONTRACTOR'S ON-SITE PROJECT FOREMAN RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE PROJECT FOREMAN WILL DESIGNATE AT LEAST THREE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF THE RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA, IN THE OFFICE TRAILER ON-SITE, AND NEAR THIS PLAN.

SWPPP CERTIFICATE

STORMWATER POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: _____ DATE: _____

PRINTED NAME: RICHARD ALFRED HOEL, P.E. (CITY OF TAMPA REPRESENTATIVE)

NOTE: THE INDIVIDUAL SIGNING HERE IS THE SAME INDIVIDUAL WHO SIGNS(ED) THE NOTICE OF INTENT (NOI) SECTION VI CERTIFICATION.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION-SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

GENERAL CONTRACTOR: _____ CONTRACTING FIRM

SIGNATURE _____ TITLE _____

PRINTED NAME FOR ABOVE SIGNATURE _____

ADDRESS _____ TELEPHONE # _____

RESPONSIBLE FOR _____

SUBCONTRACTOR: _____ CONTRACTING FIRM

SIGNATURE _____ TITLE _____

PRINTED NAME FOR ABOVE SIGNATURE _____

ADDRESS _____ TELEPHONE # _____

RESPONSIBLE FOR _____

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PRINTED NAME FOR ABOVE SIGNATURE _____

ADDRESS _____ TELEPHONE # _____

RESPONSIBLE FOR _____

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2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
PHONE: (813)314-0314 FAX: (813)314-0345
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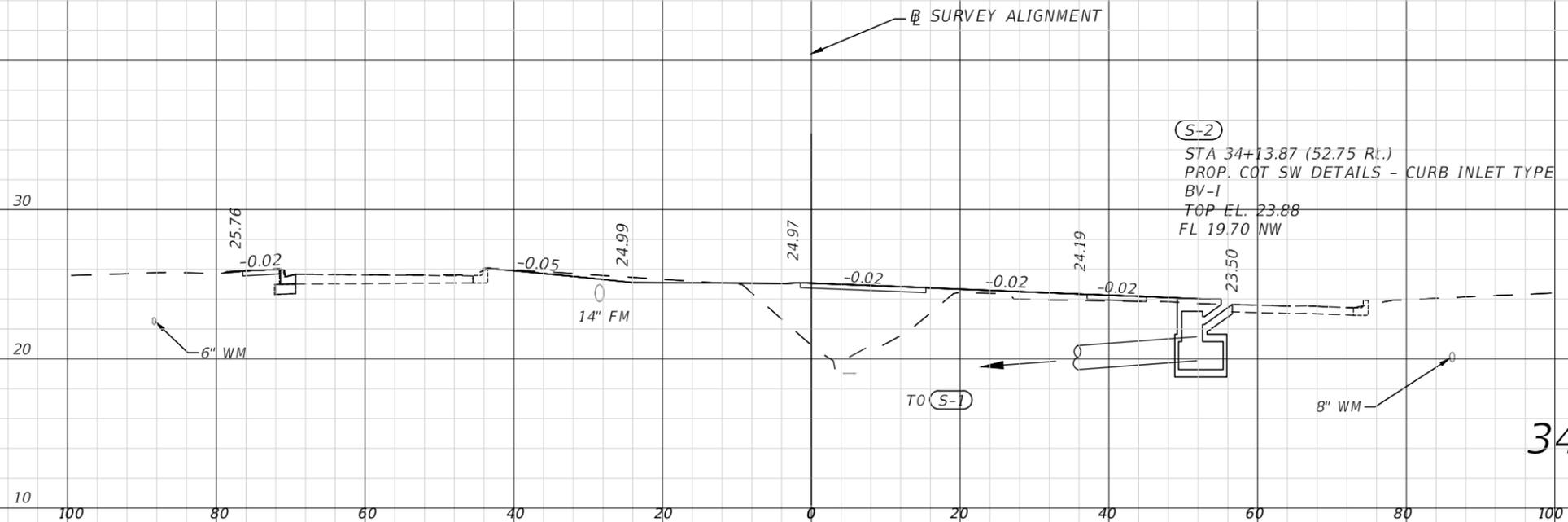
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CITY of TAMPA
DEPARTMENT OF ECONOMIC & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
STORMWATER POLLUTION PREVENTION PLAN (4)

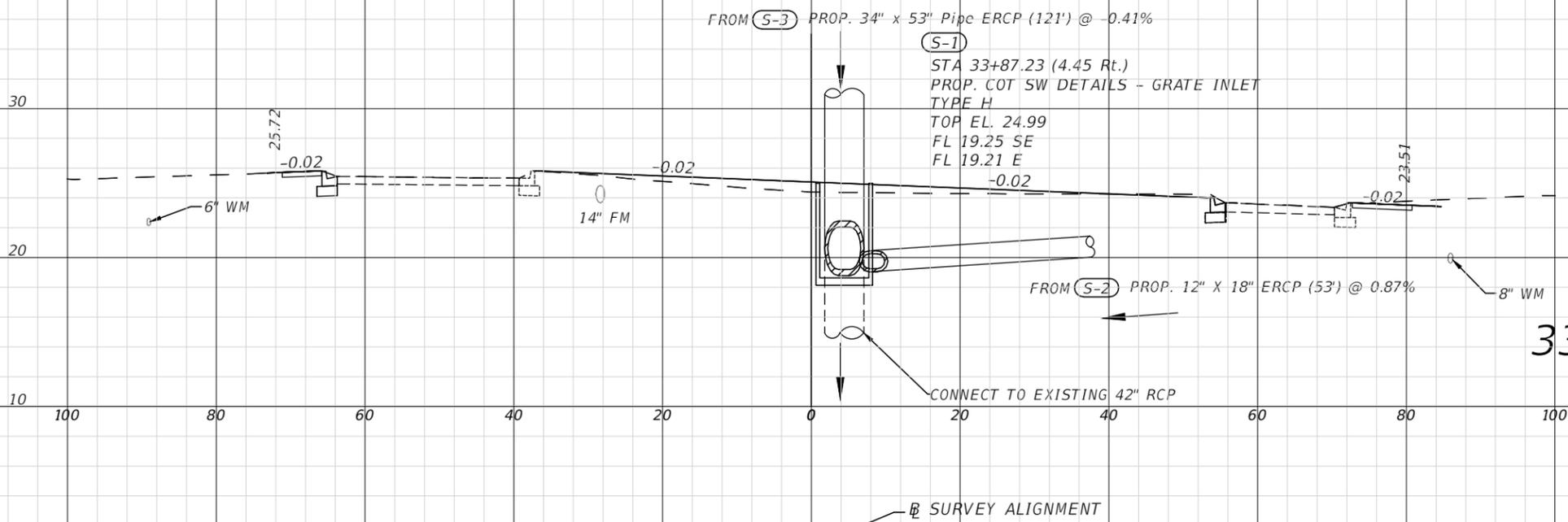
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34+13.75

(S-2)
 STA 34+13.87 (52.75 Rt.)
 PROP. COT SW DETAILS - CURB INLET TYPE
 BV-1
 TOP EL. 23.88
 FL 19.70 NW



33+87.16

FROM (S-3) PROP. 34" x 53" Pipe ERCP (121') @ -0.41%
 (S-1)
 STA 33+87.23 (4.45 Rt.)
 PROP. COT SW DETAILS - GRATE INLET
 TYPE H
 TOP EL. 24.99
 FL 19.25 SE
 FL 19.21 E

FROM (S-2) PROP. 12" x 18" ERCP (53') @ 0.87%

CONNECT TO EXISTING 42" RCP

1" = 20' Horizontal
 1" = 10' Vertical



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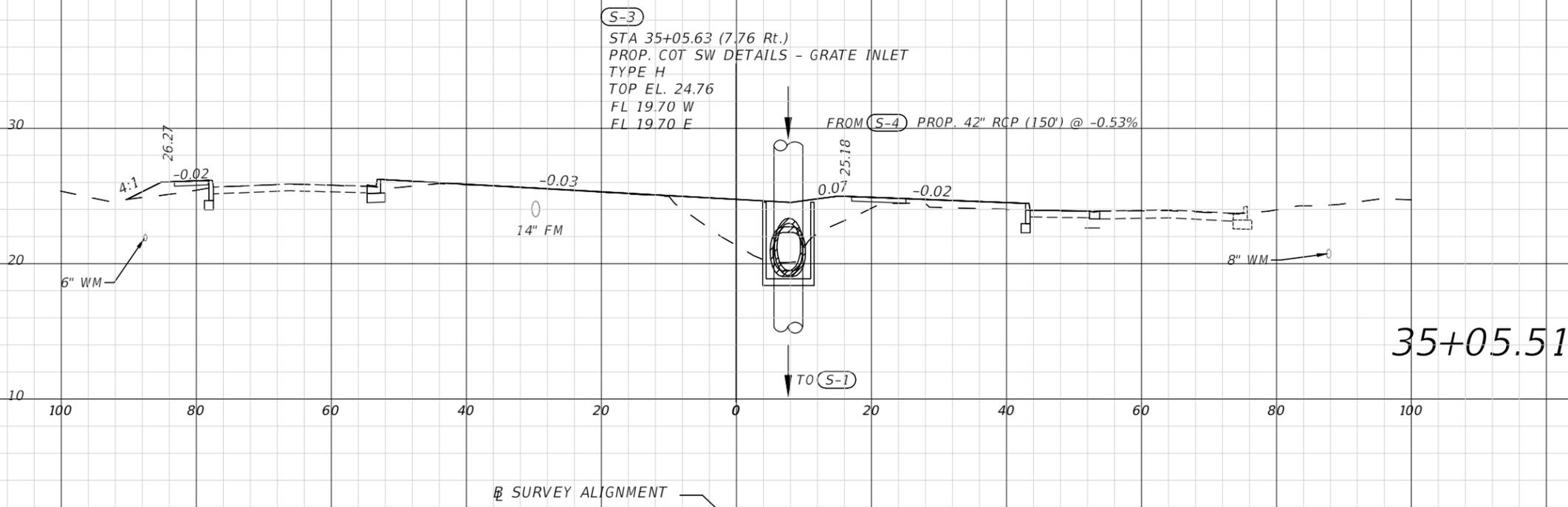
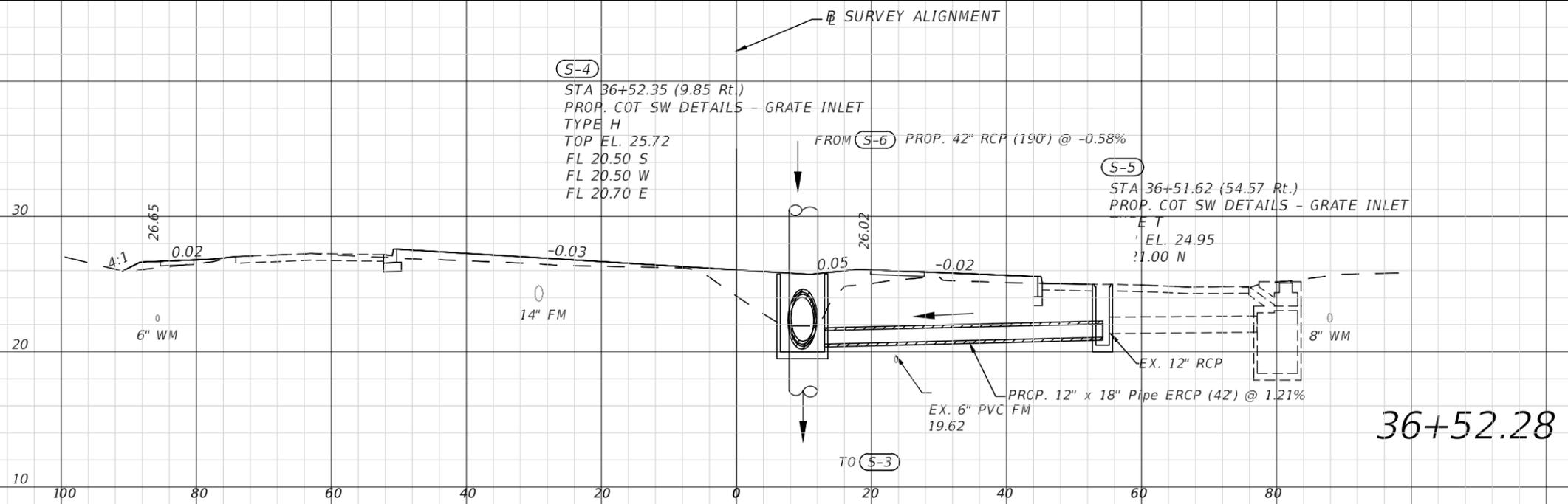
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No:		Date:	
Revision:			
By:			

CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 DRAINAGE STRUCTURES (1)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET	19

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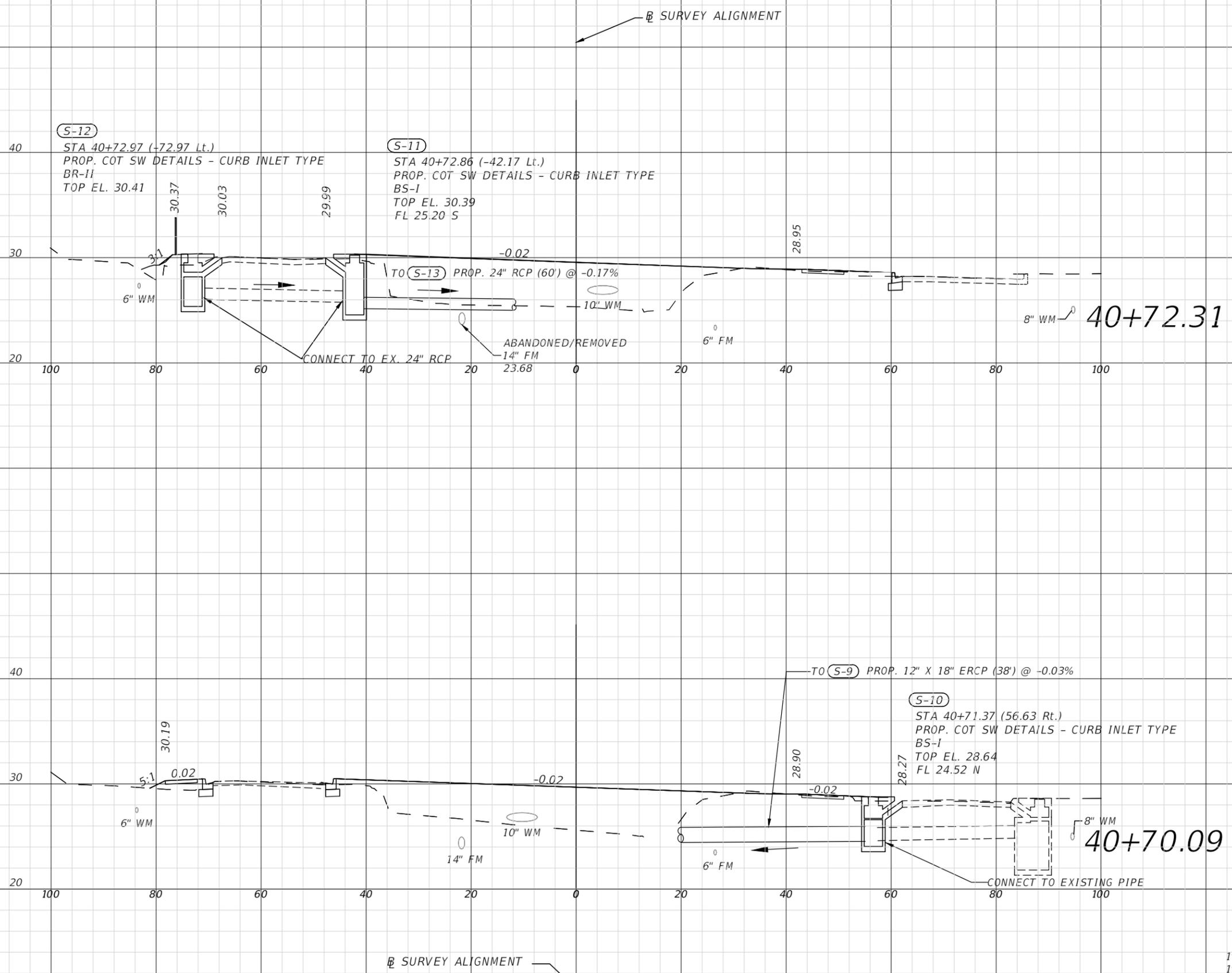
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No:		Date:	
Revision:			
By:			

CITY of TAMPA
DEPARTMENT OF ECONOMIC
& URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
DRAINAGE STRUCTURES (2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET	20

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1" = 10' Vertical

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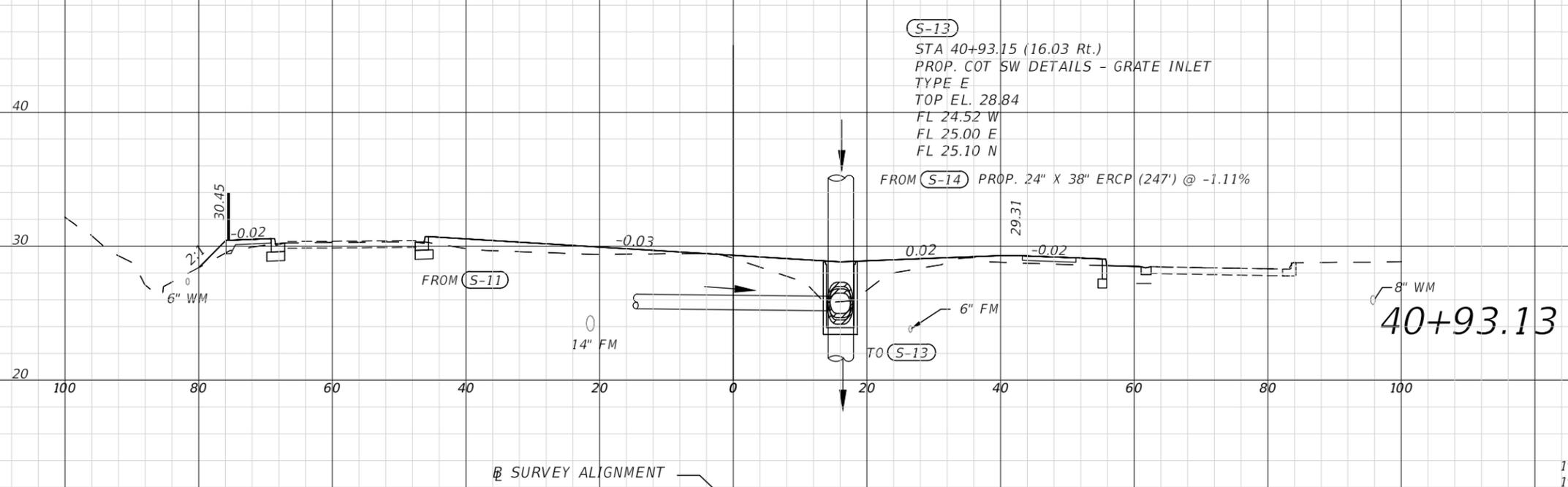
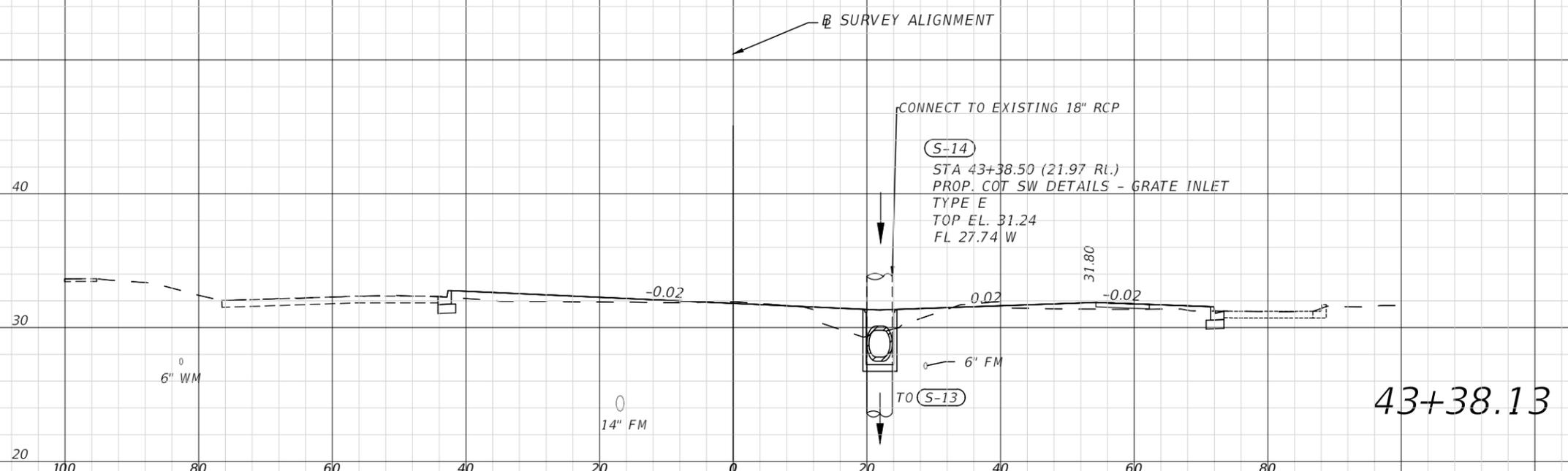


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No:		Date:	
Revision:			
By:			

CITY of TAMPA
DEPARTMENT OF ECONOMIC
& URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
DRAINAGE STRUCTURES (5)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET	23



1" = 20' Horizontal
1" = 10' Vertical



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Checked:	DD	Date:	8/18
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Approved:		Date:	
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No:		Date:	
Revision:			
By:			

CITY of TAMPA
DEPARTMENT OF ECONOMIC
& URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
DRAINAGE STRUCTURES (6)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET	24

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STRUCTURE TABLE								
QTY	STR. #	STATION	SIDE	DESCRIPTION	PIPING (OUTFALL)	GRATE/TOP EL. = "A"	INVERT	BOTTOM EL. = "B"
P	S-1	33+87.23	Rt.	COT SW DETAILS - GRATE INLET TYPE H	120 LF. 34" X 53" ERCP @ 0.41% 52 LF. 12" X 18" ERCP @ 0.87%	24.99	19.21(E) 19.25(SE)	18.64
P	S-2	34+13.87	Rt.	COT SW DETAILS - CURB INLET TYPE BV-I	52 LF. 12" X 18" ERCP @ 0.87%	23.88	19.70(NW)	19.12
P	S-3	35+05.63	Rt.	COT SW DETAILS - GRATE INLET TYPE H	150 LF. 42" RCP @ 0.54% 120 LF. 34" X 53" ERCP @ 0.41%	24.76	19.70(E) 19.70(W)	19.12
P	S-4	36+52.35	Rt.	COT SW DETAILS - GRATE INLET TYPE H	41 LF. 12" X 18" ERCP @ 1.21% 150 LF. 42" RCP @ 0.54% 190 LF. 42" RCP @ 0.58%	25.72	20.50(S) 20.50(W) 20.70(E)	19.92
P	S-5	36+51.62	Rt.	COT SW DETAILS - GRATE INLET TYPE T	41 LF. 12" X 18" ERCP @ 1.21%	24.95	21.00(N)	20.42
P	S-6	38+38.79	Rt.	COT SW DETAILS - GRATE INLET TYPE H	190 LF. 42" RCP @ 0.58% 134 LF. 42" RCP @ 0.53%	27.08	21.80(W) 22.10(E)	21.22
P	S-7	39+70.90	Rt.	COT SW DETAILS - GRATE INLET TYPE H	134 LF. 42" RCP @ 0.53% 49 LF. 42" RCP @ 0.68%	27.78	22.80(W) 22.80(E)	22.22
P	S-8	40+19.97	Rt.	PROP. MH Type 7 (Center), Rectangular Bottom	49 LF. 42" RCP @ 0.68%	28.57	23.13(W)	22.37
P	S-9	40+66.74	Rt.	PROP. MH Type 7 (Center), Round Bottom	28 LF. 24" X 38" ERCP @ 0.04% 38 LF. 12" X 18" ERCP @ 0.03%	29.36	24.51(E) 24.51(S)	23.93
P	S-10	40+71.37	Rt.	COT SW DETAILS - CURB INLET TYPE BS-I	38 LF. 12" X 18" ERCP @ 0.03%	28.64	24.52(N)	23.92
P	S-11	40+72.86	Lt.	COT SW DETAILS - CURB INLET TYPE BS-I	60 LF. 24" RCP @ 0.17%	30.39	25.20(S)	24.62
P	S-12	40+72.97	Lt.	COT SW DETAILS - CURB INLET TYPE BR-II		30.41		25.43
P	S-13	40+93.15	Rt.	COT SW DETAILS - GRATE INLET TYPE E	28 LF. 24" X 38" ERCP @ 0.04% 247 LF. 24" X 38" ERCP @ 1.11% 60 LF. 24" RCP @ 0.17%	28.84	24.52(W) 25.00(E) 25.10(N)	23.94
P	S-14	43+38.50	Rt.	COT SW DETAILS - GRATE INLET TYPE E	247 LF. 24" X 38" ERCP @ 1.11%	31.24	27.74(W)	27.16

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2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 ROBIN HERNANDEZ, P.E. 68411

Drawn: ED	Date: 8/18		
Designed: RH	Date: 8/18		
Checked: RH	Date: 8/18		
Reviewed:	Date:		
Approved:	Date:		
Approved:	Date:	No:	Date:
		Revision:	By:

CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 SUMMARY OF DRAINAGE
 STRUCTURES

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 25	

CITY OF TAMPA

DATE OF SURVEY: APRIL 2017
 SURVEY MADE BY: TIERRA, INC.
 SUBMITTED BY: MARC E. NOVAK, Ph. D., P.E.

DREW PARK CRA STORMWATER IMPROVEMENTS
 PHASE 4 - STREETScape IMPROVEMENTS

COUNTY: HILLSBOROUGH

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 30+71.64 SURVEY ENDS STA. : 47+18.65

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS						
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT		PLASTIC INDEX	AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohms cm	CHLORIDE ppm	SULFATES ppm	pH
1	---	---	---	---	1	100	97	86	50	2	---	---	---	A-3	PALE BROWN TO BROWN TO DARK BROWN SAND TO SAND WITH SILT	2	22,000-28,000	15	<5	6.3-7.7
2	---	---	1	17	4	100	99	95	60	11-21	1	NP	NP	A-2-4	BROWN SILTY SAND	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---	---	A-3	BROWN TO GRAY-BROWN SAND TO SAND WITH SILT WITH LIMEROCK AND ASPHALT FRAGMENTS/FILL	---	---	---	---	---

NOTES:

- THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-001.
- THE MATERIAL FROM STRATUM 2 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
- THE MATERIAL FROM STRATUM 3 (A-3) IS DEBRIS MATERIAL CONSISTING OF LIMEROCK AND ASPHALT FRAGMENTS. IF EXCAVATED THIS MATERIAL SHALL BE REMOVED AND DISPOSED OF OFFSITE AND NOT USED WITHIN THE PROJECT LIMITS. THIS MATERIAL IS ROCK-LIKE AND MAY BE DIFFICULT TO EXCAVATE. SPECIAL TOOLS OR EQUIPMENT MAY BE REQUIRED
- THE REMOVAL OF GRASS, SEDIMENTS AND ORGANIC MATERIALS LOCATED WITHIN ANY DRAINAGE AREA, SWALE OR DITCH SHALL BE CONSIDERED AS PART OF STANDARD CLEARING AND GRUBBING IN ACCORDANCE WITH THE SPECIFICATIONS.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.
 ▽ - GROUNDWATER TABLE ENCOUNTERED DURING INVESTIGATION
 GNE - GROUNDWATER NOT ENCOUNTERED
 REFUSAL - BORING TERMINATED DUE TO REFUSAL MATERIAL



ENGINEER OF RECORD:
MARC E. NOVAK, Ph. D., P.E.
 FLORIDA LICENSE NO.:
67431

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CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 ROADWAY SOIL SURVEY

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 26	

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NOTE: BASE MAP PROVIDED BY JOHNSON, MIRMIRAN & THOMPSON, INC.

BORING LOCATION PLAN



LEGEND

- ⊕ APPROXIMATE LOCATION OF AUGER BORING
- ⊙ APPROXIMATE LOCATION OF SPT BORING

TIERRA
7351 Temple Terrace Highway
Tampa, Florida 33637
Phone: 813-989-1354 Fax: 813-989-1355
FL Cert. No.: 6486

ENGINEER OF RECORD:
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				Revision:	By:

CITY of TAMPA
DEPARTMENT OF ECONOMIC
& URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
BORING LOCATION PLANS (1)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 27	

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BORING LOCATION PLAN



LEGEND

- ⊕ APPROXIMATE LOCATION OF AUGER BORING
- ⊙ APPROXIMATE LOCATION OF SPT BORING

TIERRA
7351 Temple Terrace Highway
Tampa, Florida 33637
Phone: 813-989-1354 Fax: 813-989-1355
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Approved: MEN	Date: 3/18	No:	Date:	Revision:
				By:

CITY of TAMPA
DEPARTMENT OF ECONOMIC
& URBAN DEVELOPMENT

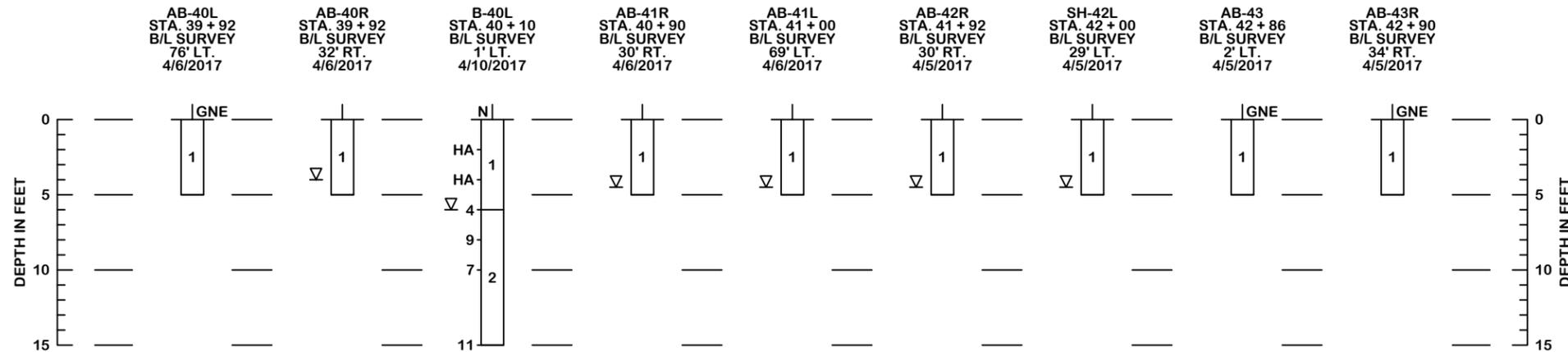
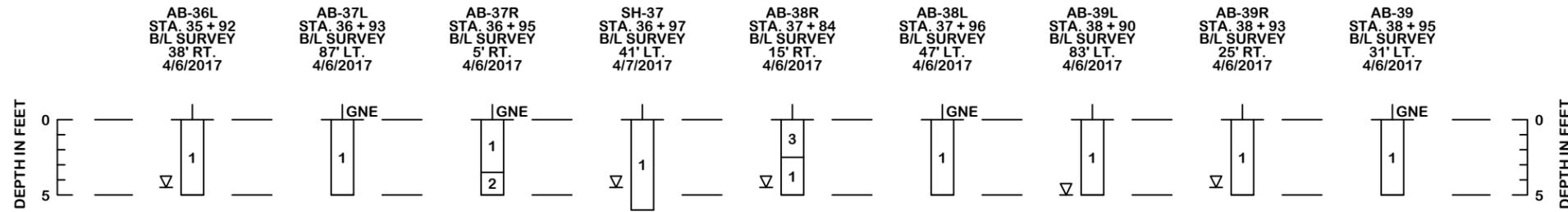
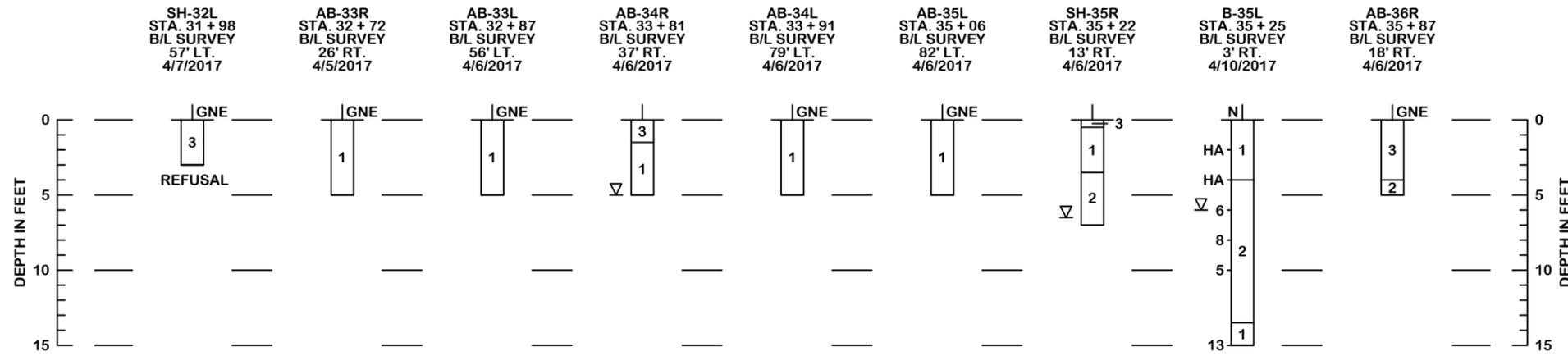
TAMPA BAY BLVD. LINEAR PARK
BORING LOCATION PLANS (2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET	28

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SOIL PROFILES

LEGEND



1. PALE BROWN TO BROWN TO DARK BROWN SAND TO SAND WITH SILT (A-3)
2. BROWN SILTY SAND (A-2-4)
3. BROWN TO GRAY-BROWN SAND TO SAND WITH SILT WITH LIMESTONE AND ASPHALT FRAGMENTS (A-3)
- ▽ GROUNDWATER LEVEL ENCOUNTERED DURING INVESTIGATION
- N SPT N-VALUE IN BLOWS/FOOT FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW
- GNE GROUNDWATER TABLE NOT ENCOUNTERED
- HA HAND AUGERED TO VERIFY UTILITY CLEARANCES
- REFUSAL BORING TERMINATED DUE TO HAND AUGER REFUSAL
- B/L SURVEY BASELINE OF SURVEY OF TAMPA BAY BOULEVARD

NOTE: SPT BORINGS PERFORMED WITH AN AUTOMATIC HAMMER.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24



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 Approved: MEN Date: 3/18

No: _____ Date: _____ Revision: _____ By: _____

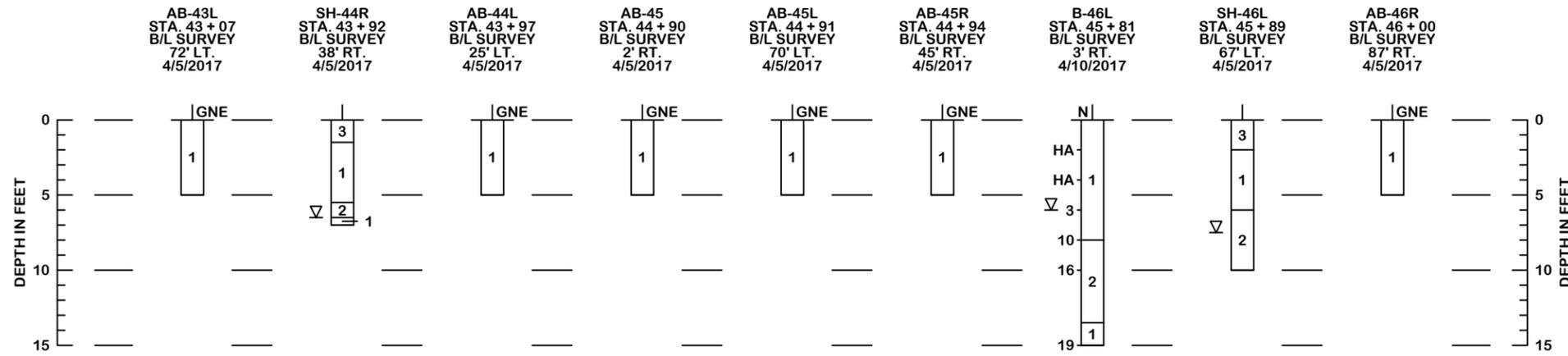
CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 SOIL BORING PROFILES (1)

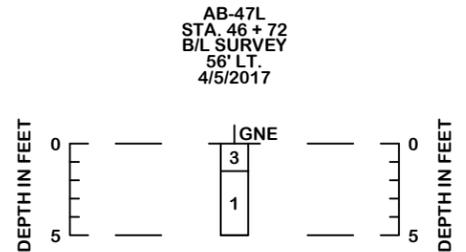
Field Book:
 Atlas Sheet:
 File No. _____ Index No. _____
 Job No. _____
 Scale:
 SHEET 29

SOIL PROFILES

LEGEND



1. PALE BROWN TO BROWN TO DARK BROWN SAND TO SAND WITH SILT (A-3)
 2. BROWN SILTY SAND (A-2-4)
 3. BROWN TO GRAY-BROWN SAND TO SAND WITH SILT WITH LIMEROCK AND ASPHALT FRAGMENTS (A-3)
- ▽ GROUNDWATER LEVEL ENCOUNTERED DURING INVESTIGATION
- N SPT N-VALUE IN BLOWS/FOOT FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW
- GNE GROUNDWATER TABLE NOT ENCOUNTERED
- HA HAND AUGERED TO VERIFY UTILITY CLEARANCES
- REFUSAL BORING TERMINATED DUE TO HAND AUGER REFUSAL
- B/L SURVEY BASELINE OF SURVEY OF TAMPA BAY BOULEVARD



NOTE: SPT BORINGS PERFORMED WITH AN AUTOMATIC HAMMER.

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24



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ENGINEER OF RECORD:
MARC E. NOVAK, Ph. D., P.E.
FLORIDA LICENSE NO.:
67431

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Approved: MEN	Date: 3/18	No:	Date:	By:
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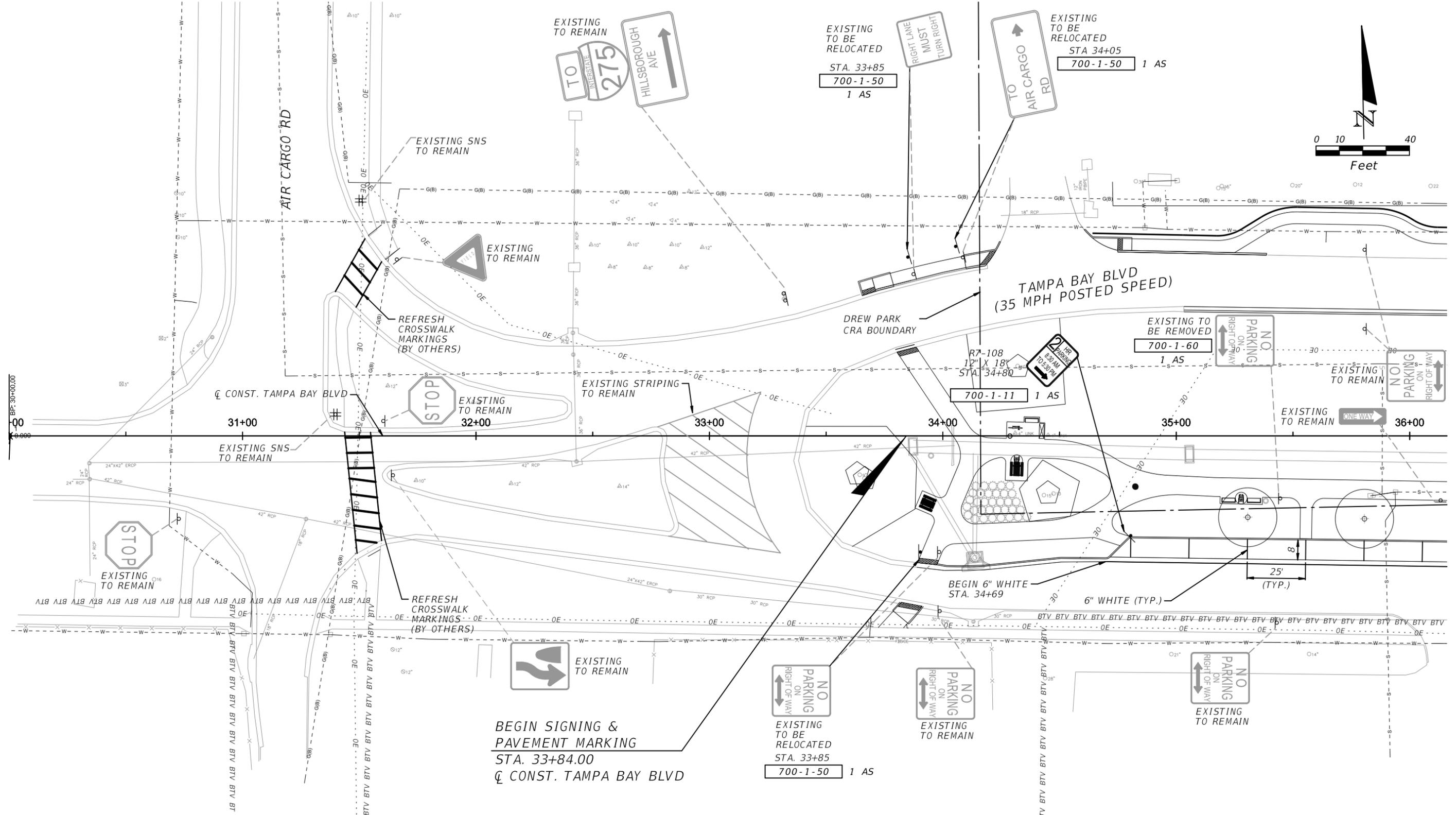
CITY of TAMPA
DEPARTMENT OF ECONOMIC
& URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
SOIL BORING PROFILES (2)

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET	30

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8/14/2018



JMT
 2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 SERGIO C. QUEVEDO, P.E. 63084

Drawn:	ED	Date:	11/17
Designed:	RH	Date:	11/17
Checked:	RH	Date:	11/17
Reviewed:	XX	Date:	11/17
Approved:	XX	Date:	11/17
Approved:	XX	Date:	11/17
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By:			

CITY of TAMPA
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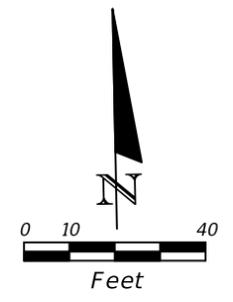
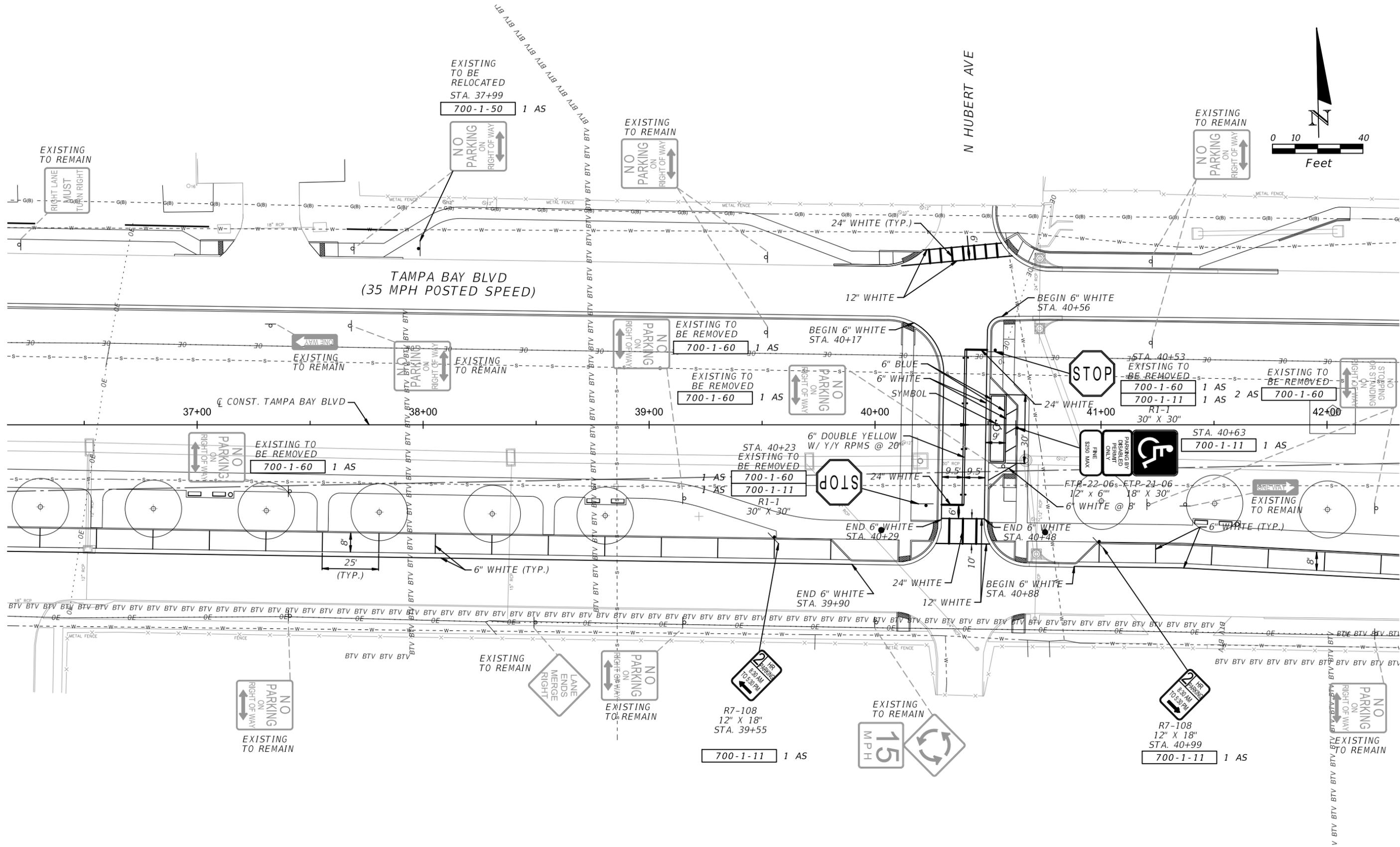
TAMPA BAY BLVD. LINEAR PARK
 SIGNING & PAVEMENT MARKING

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 32	

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JMT
 2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
 PHONE: (813)314-0314 FAX: (813)314-0345
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Approved:	XX	Date:	11/17
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Revision:			
By:			

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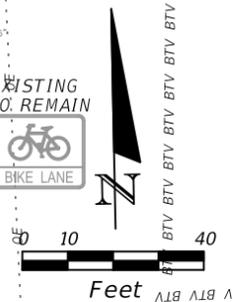
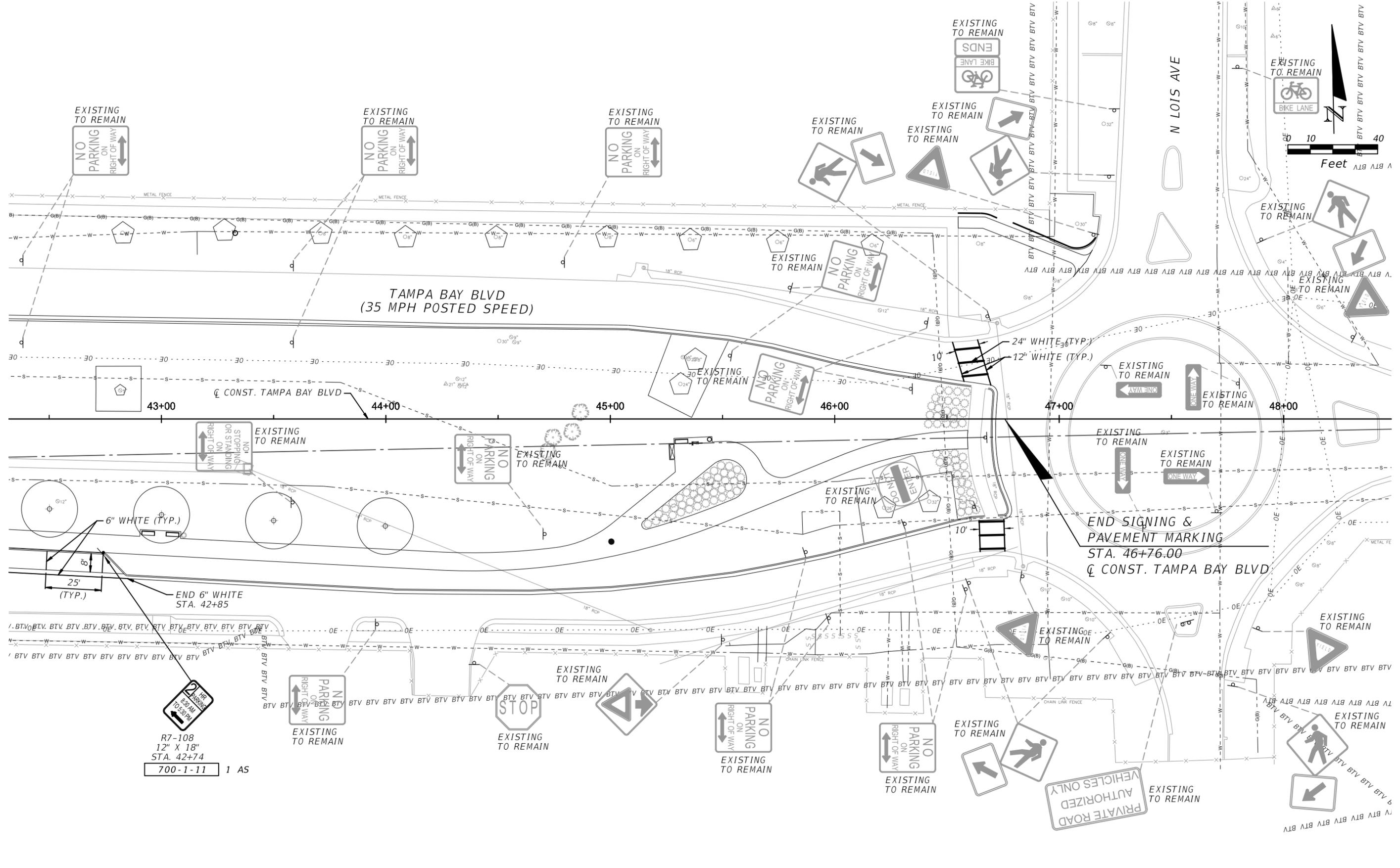
TAMPA BAY BLVD. LINEAR PARK
 SIGNING & PAVEMENT MARKING

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 33	

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 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 SERGIO C. QUEVEDO, P.E. 63084

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Revision:			
By:			

CITY of TAMPA
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TAMPA BAY BLVD. LINEAR PARK
 SIGNING & PAVEMENT MARKING

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 34	

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			34		35		36													
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	LIGHTING CONDUIT (F&I) (OPEN TRENCH)	LF	439		1196		950										2585		2585	
630-2-12	LIGHTING CONDUIT (F&I) (DIRECTIONAL BORE)	LF	53		233												286		286	
635-2-11	PULL AND SPLICE BOX (F&I) (13"X24")	EA	9		19		11										39		39	
639-1-122	ELEC. POWER SVC. (F&I) (UNDERGROUND) (PURCH. BY CONTRACTOR)	AS			1												1		1	
715-1-12	LIGHTING CONDUCTORS (F&I) (NO. 8 TO NO. 6)	LF	2100		4959		3642										10701		10701	
715-7-11	LOAD CENTER (F&I) (SECONDARY VOLTAGE)	EA			1												1		1	
715-500-1	LIGHT POLE CABLE DIST SYS. (CONVENTIONAL)	EA	8		14		11										33		33	
715-516-115	LIGHT POLE COMPLETE-SPECIAL DESIGN (F&I) (POLE TOP) (ALUMINUM) (12')	EA	8		14		11										33		33	

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 PHONE: (813)314-0314 FAX: (813)314-0345
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		Revision:	By:

CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 TABULATION OF QUANTITIES

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET 35	

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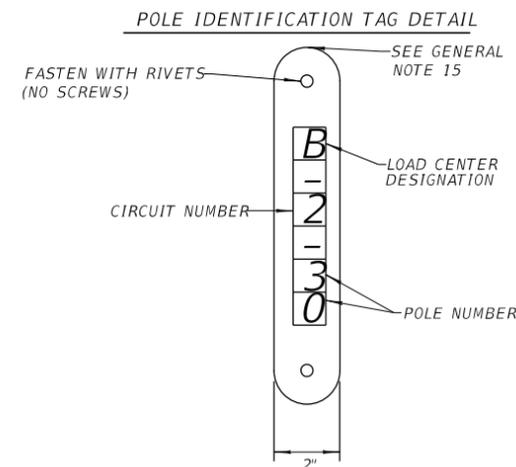
LIGHTING GENERAL NOTES

1. SPARE CONDUIT AT PAVEMENT CROSSINGS SHALL BE CAPPED AT BOTH ENDS.
2. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. SEVEN (7) COPIES OF SHOP DRAWINGS AND DESIGN DATA FOR ROADWAY LIGHTING EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN ACCORDANCE WITH THE SPECIFICATIONS.
3. UTILITY OWNERS:
SEE ROADWAY SHEETS
4. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
5. STATE OF FLORIDA STATUTE 556 (2008) REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) A MINIMUM OF TWO (2) FULL BUSINESS DAYS AT 1-800-432-4770. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.
6. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
7. ALUMINUM POLES, LUMINAIRES, AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", AND SHALL HAVE BEEN TESTED BY F.H.W.A. APPROVED METHODS (LATEST EDITION). CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
8. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS.
9. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES, ON OUTSIDE OF ENCLOSURES.
10. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
11. THE CONTRACTOR SHALL NOTIFY TAMPA ELECTRIC COMPANY AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. TAMPA ELECTRIC COMPANY, AT ITS OPTION, SHALL ASSIST THE F.D.O.T. CONTRACTOR, COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITE, OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.
12. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY THE NATIONAL ELECTRICAL CODE OR NATIONAL ELECTRICAL SAFETY CODE FOR CABLE USED.
13. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.
14. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE 2" x 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE AS SHOWN ON THE POLE DATA SHEET, AND THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE. BOTTOM OF THE TAG SHALL BE 60 INCHES ABOVE THE FINISHED GRADE.
15. THE CONTRACTOR SHALL USE THE CONCRETE FOUNDATION ON THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLAN INDEX 715-002.
16. ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE SPECIFIED IN THE PLANS.
17. DIRECTIONAL BORE OPERATIONS IF USED SHALL MEET THE REQUIREMENTS OF F.D.O.T.'S UTILITY ACCOMMODATION MANUAL, (LATEST EDITION).
18. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHTING POLE FOUNDATIONS OR CONDUIT RUN, AS DETERMINED BY THE CONTRACTOR AND/OR ENGINEER, THE CONTRACTOR SHALL HAND DIG THE FIRST 4 FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.

20. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PROVISIONS THAT REQUIRE THE PREPARATION AND APPROVAL OF AN EROSION CONTROL PLAN THAT ADDRESSES PREVENTION, CONTROL AND ABATEMENT OF WATER POLLUTION.
21. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CAN NOT BE BACKFILLED IN THE SAME WORK PERIOD.
22. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL BE INCLUDED IN THE PRICE OF THE PEDESTRIAN LIGHT POLE.
23. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE DRIVEWAYS AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.
24. THE LIGHTING SYSTEM WILL BE MAINTAINED BY THE CITY OF TAMPA UPON FINAL ACCEPTANCE. THE CONTRACTOR SHALL SUBMIT THE AS-BUILT PLANS TO THE ENGINEER, PRIOR TO FINAL ACCEPTANCE.
25. THE CONTRACTOR SHALL NOTIFY THE CITY OF TAMPA SIGNAL SHOP BEFORE ANY TRENCHING OR DIGGING AT ALL SIGNALIZED INTERSECTIONS SO THAT ALL UNDERGROUND LOOP LEAD-INS AND ELECTRICAL CABLES CAN BE IDENTIFIED AND MARKED APPROPRIATELY.
26. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
27. CONDUIT LOCATION AS SHOWN ON PLANS IS DIAGRAMMATIC. CONDUIT SHALL BE PLACED WITHIN THE RIGHT-OF-WAY BUT CAN BE ADJUSTED TO FIT AROUND EXISTING AND PROPOSED UTILITIES.

PEDESTRIAN LIGHTING PAY ITEM FOOTNOTES:

1. PAY ITEM 630-2-11 AND 630-2-12: SHALL INCLUDE CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING, AND BACKFILL AS INDICATED IN THE PLANS AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION. THE LINEAR FOOT PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING CUT PAVEMENT, SIDEWALK, SOD, ETC., TO ITS ORIGINAL CONDITION. SOD SHALL BE REPLACED IN LIKE KIND OF THE ADJACENT SURROUNDINGS.
2. PAY ITEM 715-1-12: SHALL INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION. PAYMENT SHALL BE MADE BASED ON LINEAR FOOT OF SINGLE CONDUCTOR.
3. PAY ITEM 715-7-11: SHALL INCLUDE METER BASE, NEMA 3R ENCLOSED CIRCUIT BREAKER ON LOAD SIDE OF METER AT RISER POLE. WEATHERHEADS, FUSED CONTROL POWER TRANSFORMERS, ENCLOSURES, PANEL BOARDS, BREAKERS, FUSES, LIGHTNING PROTECTOR, PHOTO-ELECTRIC ASSEMBLY, CONDUIT AND FEEDER CONDUCTORS FROM POWER COMPANY POINT OF SERVICE TO LIGHTING CONTROL PANEL, PULL BOXES AND ALL MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION AS PER PLANS AND STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLAN INDEX 639-001. SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING TYPE N-II CONCRETE RISER POLE AND/OR PEDESTAL POLE.
4. PAY ITEM 715-500-1: SHALL INCLUDE BREAK-AWAY WATERTIGHT, IN-LINE FUSE HOLDERS, UL APPROVED STRAIN RELIEF, AND THE SURGE ARRESTOR PER THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLAN INDEX 715-001.
5. PAY ITEM 715-516-115: SHALL INCLUDE THE POLE, LUMINAIRE WITH LAMP, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, AND FOUNDATION.



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CITY of TAMPA
DEPARTMENT OF ECONOMIC
& URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
LIGHTING GENERAL NOTES

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Job No.	
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SHEET 36	

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LEGEND

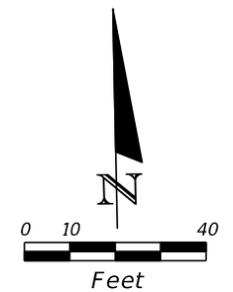
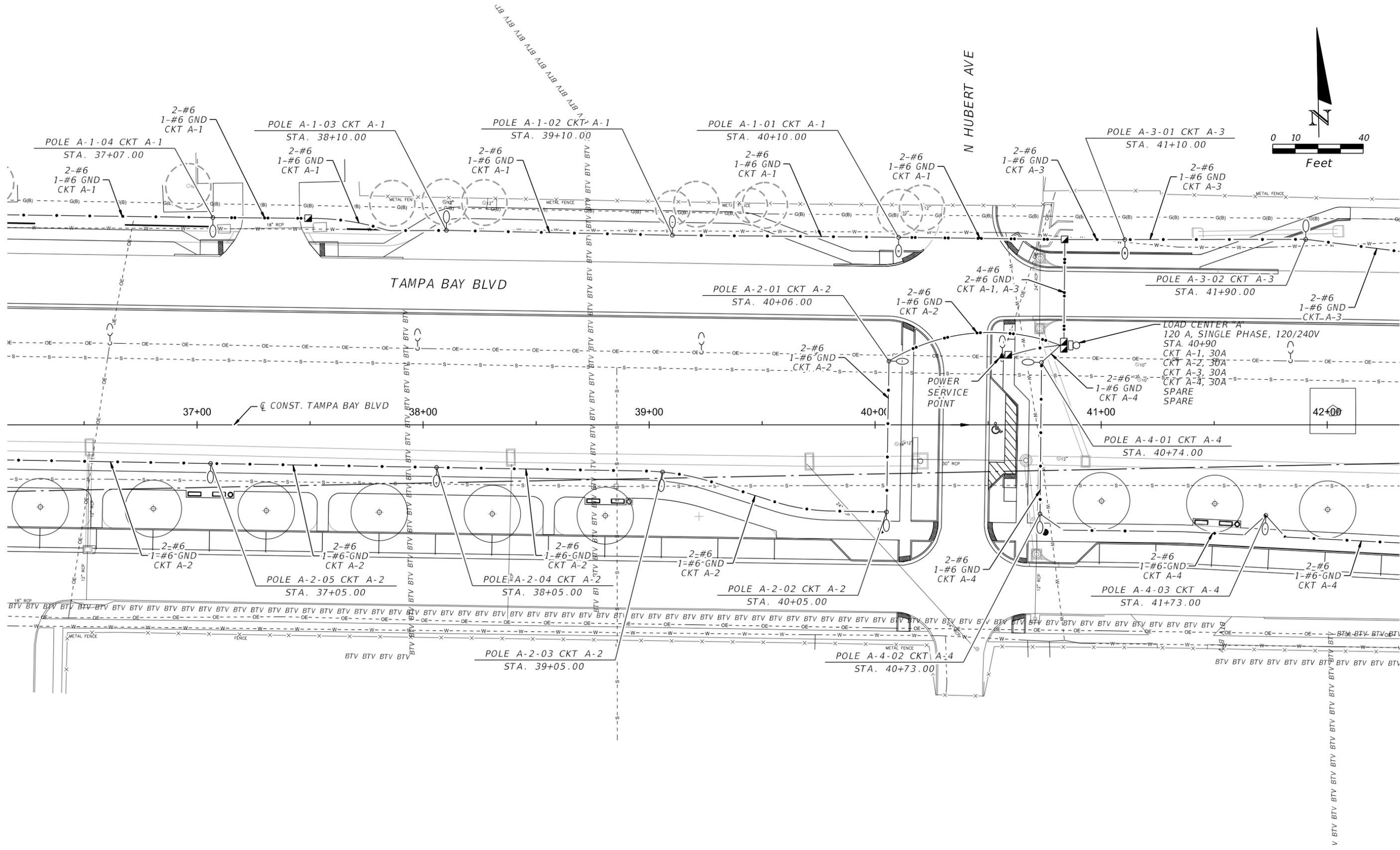
SYMBOLS	DESCRIPTION
<div style="border: 1px solid black; display: inline-block; padding: 2px;">715-516-115</div> 	<p>62 WATT LED ARM MOUNTED LUMINAIRE ON PROPOSED POLE, TYPE IV DISTRIBUTION, FULL CUTOFF, BUG RATING OF B1-U0-G1 (ANALYZED USING LANDSCAPE FORMS INC PHOTOMETRIC FILE LF_LEO_22IN_35K.IES). LUMINAIRE SHALL BE WIRED FOR 240 VOLT OPERATION. MOUNTING HEIGHT - 12 FEET. SYMBOL INCLUDES PULL BOX.</p>
	<p>EXISTING 100 WATT LUMINAIRE ON POLE.</p>
	<p>LOAD CENTER.</p>
	<p>ISOLATED PULL BOX. FOR SPECIFICATIONS SEE SECTION 635 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STANDARD PLAN INDEX 715-001 OF THE DESIGN STANDARDS AND SECTION A635 OF THE MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNALS AND DEVICES. SYMBOL INCLUDES CONCRETE SLAB PER STANDARD PLAN INDEX 715-001.</p>
	<p>ONE - 2" SCHEDULE 40 PVC UNDERGROUND CONDUIT CONTAINING XHHW-2 CONDUCTORS. AWG SIZES AND TOTAL CONDUCTORS CALLED OUT ON PLAN SHEETS. CALL OUT NUMBER INCLUDES ONE COPPER BOND CONDUCTOR (GREEN INSULATION) INSIDE CONDUIT WITH OTHER CONDUCTORS.</p>
	<p>TWO - 2" DIRECTIONALLY BORED, UL LISTED, HDPE CONDUITS CONTAINING XHHW-2 CONDUCTORS. AWG SIZES AND TOTAL CONDUCTORS CALLED OUT ON PLAN SHEETS. CALL OUT NUMBER INCLUDES ONE COPPER BOND CONDUCTOR (GREEN INSULATION) INSIDE CONDUIT WITH OTHER CONDUCTORS. ONE CONDUIT IS A SPARE.</p>

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8/3/2018



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 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 SERGIO C. QUEVEDO, P.E. 63084

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CITY of TAMPA
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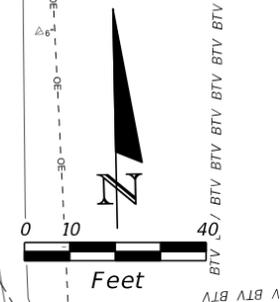
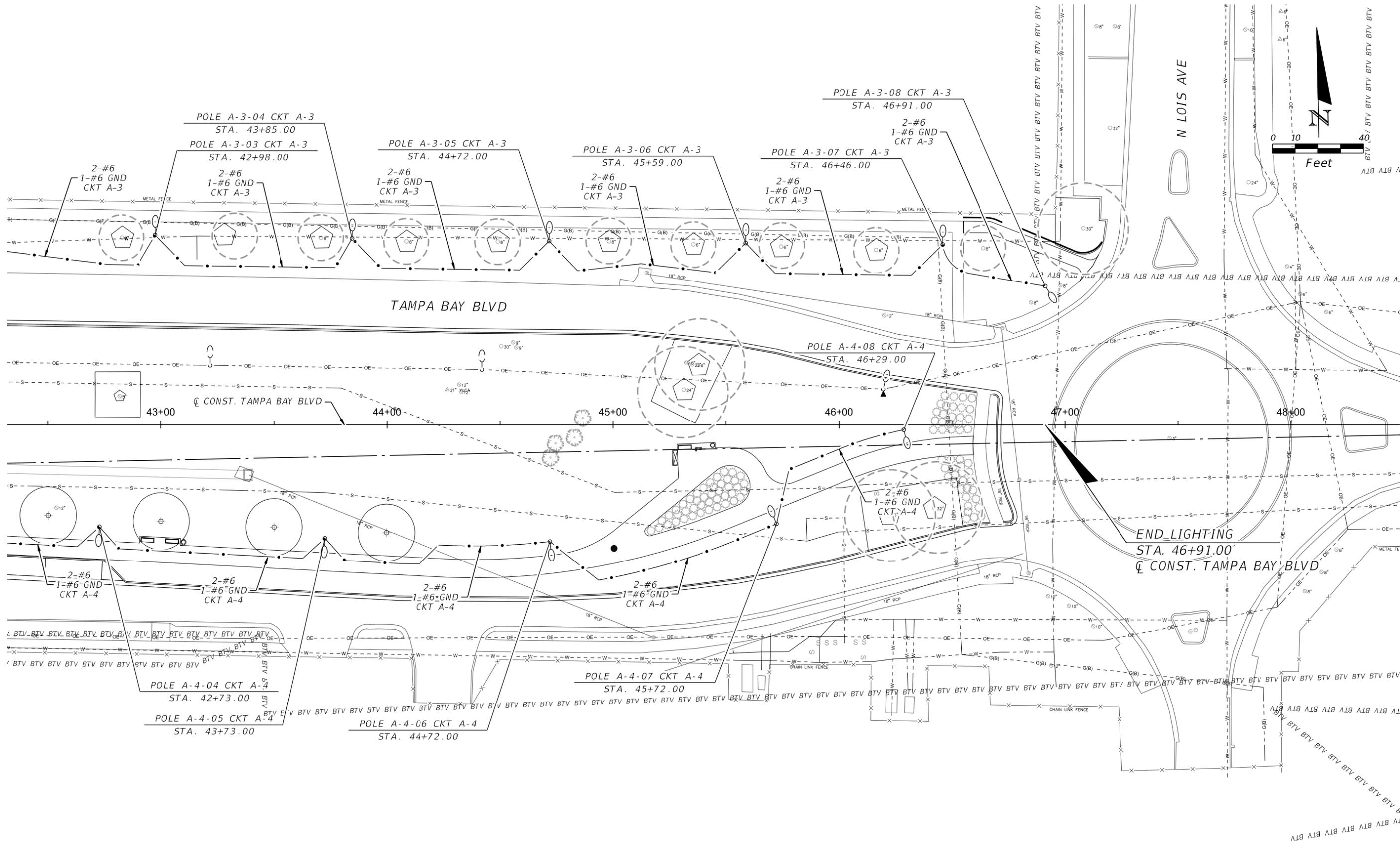
TAMPA BAY BLVD. LINEAR PARK
 LIGHTING PLAN

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 SERGIO C. QUEVEDO, P.E. 63084

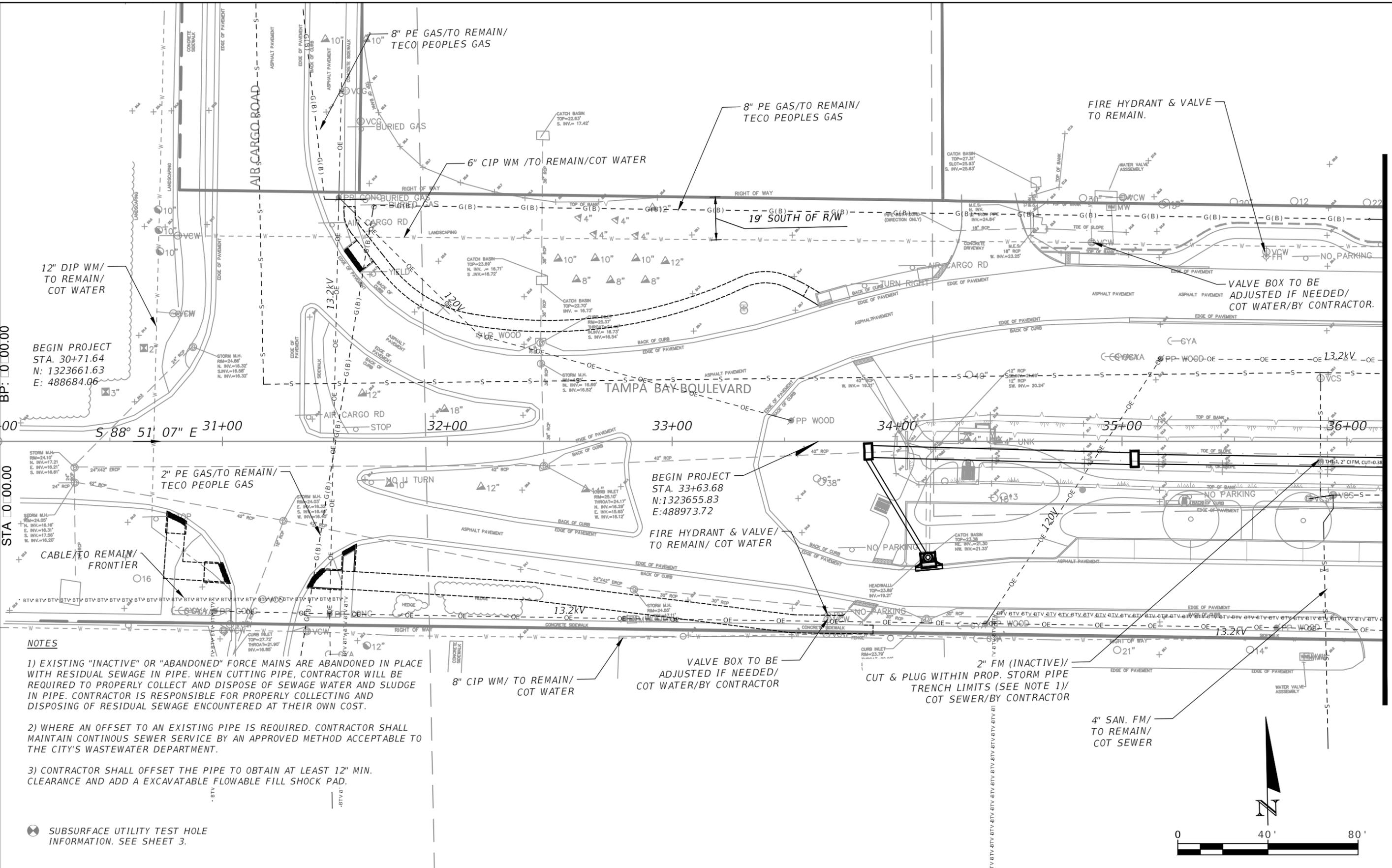
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CITY of TAMPA
 DEPARTMENT OF ECONOMIC
 & URBAN DEVELOPMENT

TAMPA BAY BLVD. LINEAR PARK
 LIGHTING PLAN

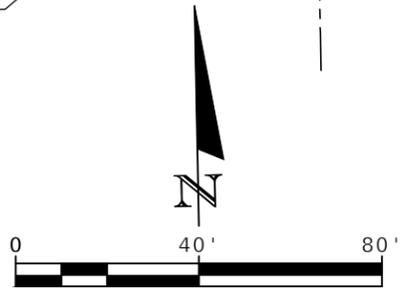
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- NOTES**
- 1) EXISTING "INACTIVE" OR "ABANDONED" FORCE MAINS ARE ABANDONED IN PLACE WITH RESIDUAL SEWAGE IN PIPE. WHEN CUTTING PIPE, CONTRACTOR WILL BE REQUIRED TO PROPERLY COLLECT AND DISPOSE OF SEWAGE WATER AND SLUDGE IN PIPE. CONTRACTOR IS RESPONSIBLE FOR PROPERLY COLLECTING AND DISPOSING OF RESIDUAL SEWAGE ENCOUNTERED AT THEIR OWN COST.
 - 2) WHERE AN OFFSET TO AN EXISTING PIPE IS REQUIRED. CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER SERVICE BY AN APPROVED METHOD ACCEPTABLE TO THE CITY'S WASTEWATER DEPARTMENT.
 - 3) CONTRACTOR SHALL OFFSET THE PIPE TO OBTAIN AT LEAST 12" MIN. CLEARANCE AND ADD A EXCAVATABLE FLOWABLE FILL SHOCK PAD.

☉ SUBSURFACE UTILITY TEST HOLE INFORMATION. SEE SHEET 3.



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 PHONE: (813)314-0314 FAX: (813)314-0345
 FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
 ROBIN HERNANDEZ, P.E. 68411

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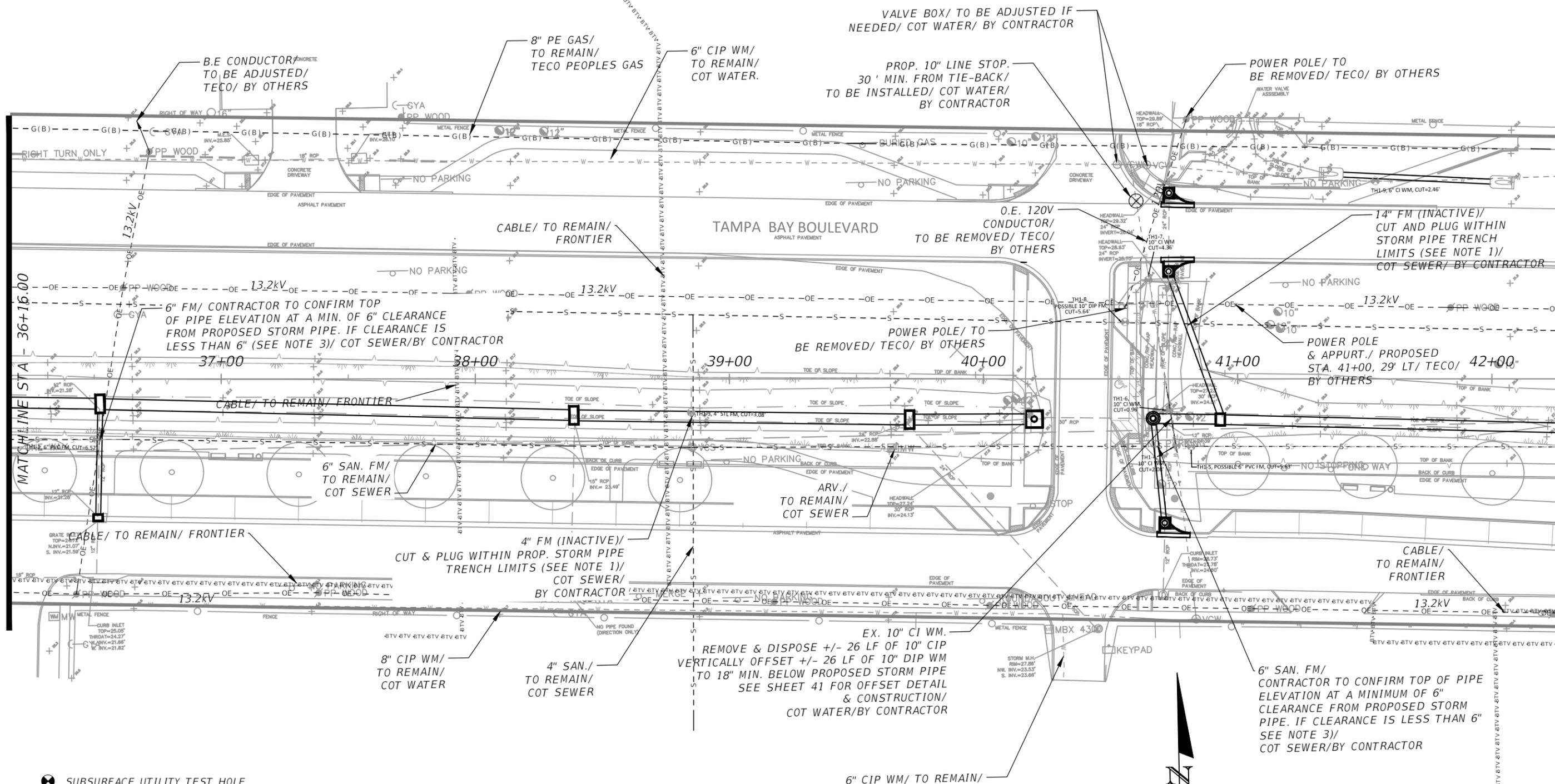
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TAMPA BAY BLVD. LINEAR PARK
 UTILITY ADJUSTMENT SHEET (1)

Field Book:	
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Job No.	
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SHEET 42	

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⊗ SUBSURFACE UTILITY TEST HOLE INFORMATION. SEE SHEET 3



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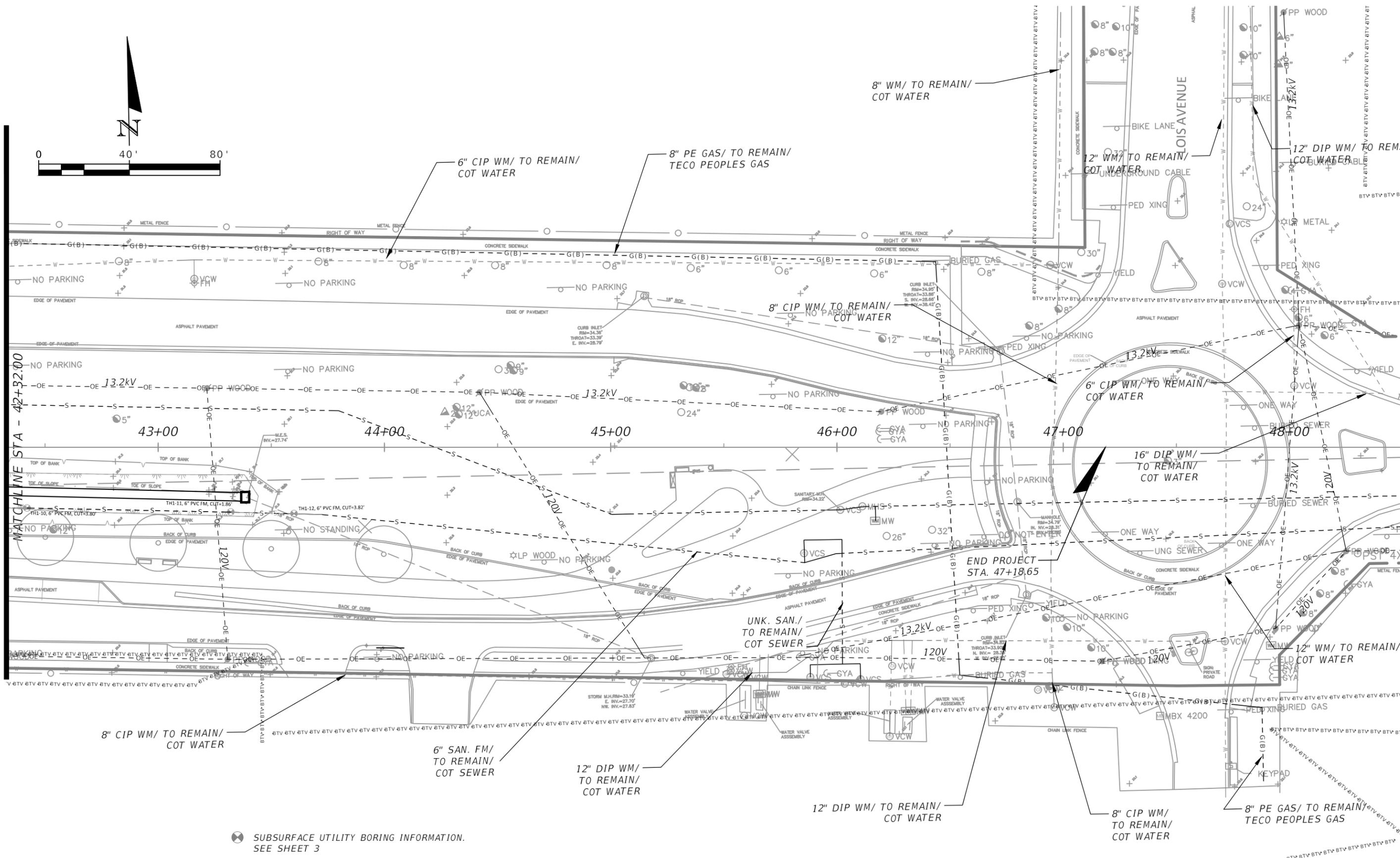
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TAMPA BAY BLVD. LINEAR PARK
 UTILITY ADJUSTMENT SHEET (2)

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SHEET 43	

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⊙ SUBSURFACE UTILITY BORING INFORMATION. SEE SHEET 3



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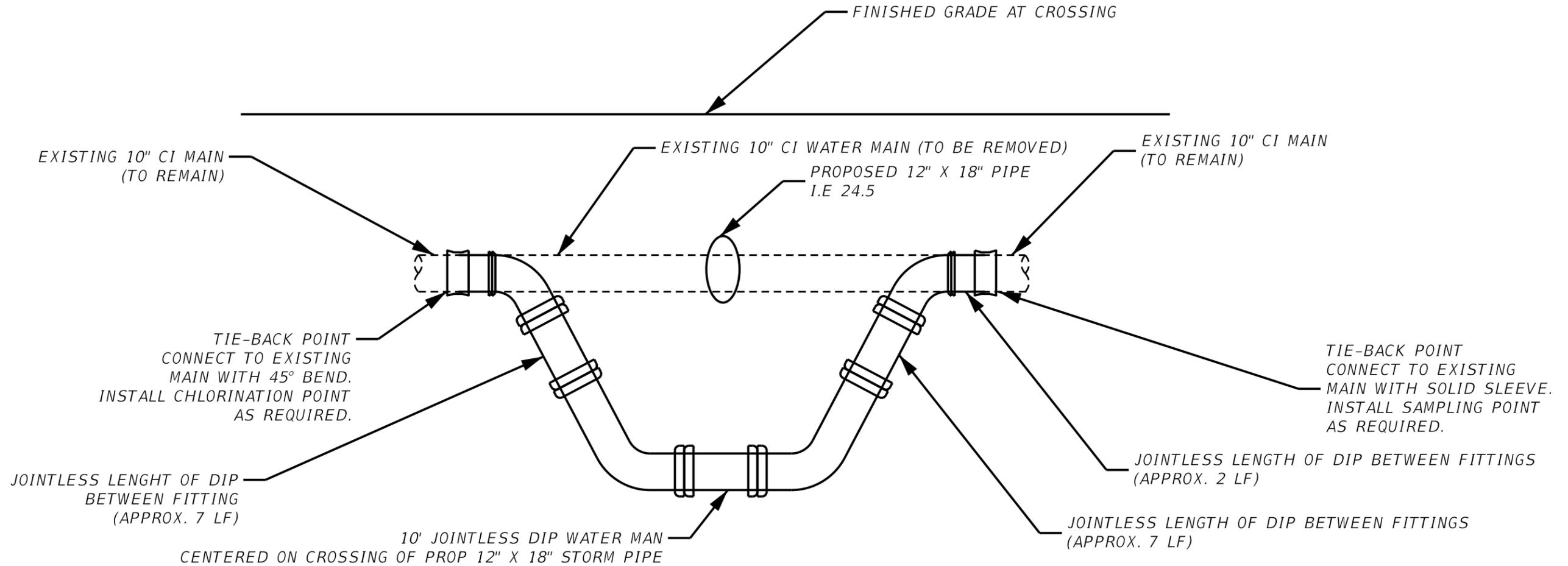
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TAMPA BAY BLVD. LINEAR PARK
 UTILITY ADJUSTMENT SHEET (3)

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CONSTRUCTION NOTES:

1. CONTRACTOR TO RESTRAIN ALL JOINTS OF NEW 10" DI PIPE AND FITTINGS INSTALLED.
2. CONTRACTOR TO EXPOSE AND RESTRAIN ALL JOINTS OF EXISTING WATERMAIN PIPE WITHIN 43 FT OF THE TIE-BACK POINTS AS REQUIRED USING EXTERIOR BELL RESTRAINTS.
3. CONTRACTOR TO INSTALL WATERMAIN TO CROSS 18 IN. MIN. BELOW PROPOSED 12" X 18" STORM PIPE.
4. POLYWRAP ALL NEW D.I PIPE, FITTINGS, AND NEWLY RESTRAINED EXISTING 10" CIP JOINTS.
5. ALL MATERIALS AND WORK TO BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF TAMPA WATER DEPARTMENT TECHNICAL MANUAL
6. CONTRACTOR TO CONFIRM ALL MATERIAL QUANTITIES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND ORDERING OF SUPPLIES.

"OFFSET" CONSTRUCTION DETAILS (NTS)

MIN. MATERIALS REQUIRED:

- 1 - SOLID SLEEVE, DI, MJ
- 4 - 45° BENDS, DI, MJ
- 26 LF OF D.I.P., PC350
- 10 EA MEGA-LUG RESTRAINTS

5/23/2018



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 PHONE: (813) 314-0314 FAX: (813) 314-0345
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 ROBIN HERNANDEZ, P.E. 68411

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CITY of TAMPA
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TAMPA BAY BLVD. LINEAR PARK
 UTILITY ADJUSTMENT DETAIL

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TREES TABLES FOR CREDIT AND DEBIT

TREES RETAINED

DIAMETER (INCHES)	# RETAINED ON SITE	MULTIPLIER FOR CREDIT	CREDIT
5"-7"	0	0	0
8"-12"	1	1	1
13"-19"	2	2	4
20"-29"	3	4	12
30" OR MORE	3	10	30
ALL PALMS	4	1	4
TOTAL	13		51

TREES REMOVED

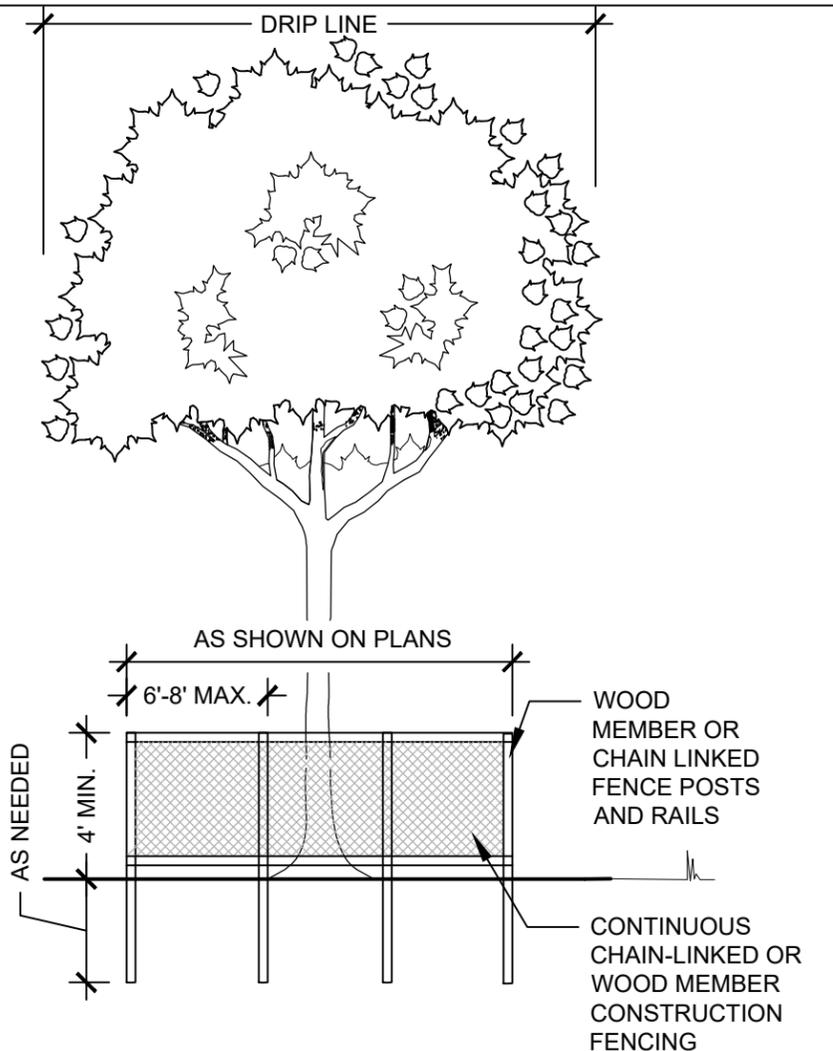
DIAMETER (INCHES)	# RETAINED ON SITE	MULTIPLIER FOR DEBIT	DEBIT
5"-7"	0	0	0
8"-12"	1	1	1
13"-19"	0	2	0
20"-29"	0	4	0
30" OR MORE	1(30")	INCH PER INCH	30*
ALL PALMS	18	1	18
TOTAL	0		49*

SUMMARY OF REQUIREMENTS

	REQUIRED NUMBER OF 2" TREES
CREDIT FOR TREES TO BE RETAINED ON SITE	51
DEBIT FOR TREES REMOVED	49
TOTAL TREES REQUIRED TO BE PLANTED	2
TREES TO BE PROVIDED AS PART OF PROJECT	15

NOTES

- NO WORK SHALL BEGIN UNTIL TREE DEMOLITION AND PROTECTION PLAN IS APPROVED BY THE CITY.
- ALL TREES TO BE REMOVED SHALL BE FELLED BY A ISA CERTIFICATED ARBORIST CONTRACTOR. TREE DEBRIS MAY BE DISPOSED OF BY GENERAL CONTRACTOR. REMOVE TREE COMPLETELY INCLUDING ROOTS TO A MINIMUM DEPTH OF 24" BELOW GRADE.
- TREES REQUIRING CANOPY OR ROOT PRUNING SHALL BE TRIMMED CONSISTENT WITH THE 'AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS, ANSI A300 CURRENT EDITION.' TREES SHALL BE PRUNED TO PROTECT THE SAFETY OF PEDESTRIANS AND TO RETAIN THE FORM AND CHARACTER OF THE TREE. PRUNING SHALL BE PERFORMED UNDER THE DIRECTION OF AN ISA CERTIFIED ARBORIST HIRED BY THE CONTRACTOR.
- ROOTS THAT ARE EXPOSED AND OR CUT DURING EXCAVATION SHALL BE CLEAN CUT. ROOTS OVER 4" DIA. SHALL BE REVIEWED BY AN ISA ARBORIST BEFORE CUTTING
- CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION TO ANY TREE THAT HAS HAD MORE THAN 25% OF IT IS ROOTS REMOVED DURING ROOT PRUNING. TEMPORARY IRRIGATION SHALL PROVIDE A MINIMUM OF 1" OF WATER UNDER CANOPY OF TREE EACH WEEK THROUGHOUT CONSTRUCTION. TEMPORARY WATER MAY BE REDUCED WHEN NATURAL RAIN MEETS THIS REQUIREMENT.
- REFER TO CITY OF TAMPA CHAPTER 13 FOR ALL OTHER CODES AND REQUIREMENTS FOR TREE REMOVAL AND/OR PROTECTION.
- THE CONTRACTOR SHALL PROTECT ALL TREES WITHIN THE AREA OF THE PROPOSED CONSTRUCTION IN ACCORDANCE WITH CHAPTER 13 OF THE CITY OF TAMPA CODE.
- PRUNING OF BRANCHES IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY OF TAMPA PLANNING AND DEVELOPMENT DEPARTMENT, NATIONAL RESOURCE SECTION, APPROVED PRUNING SHALL BE COMPLETED BY AN ISA (INTERNATIONAL SOCIETY OF ARBORIST). PRUNING OF GRAND TREES WILL REQUIRE AN ADDITIONAL GRAND TREE PRUNING PERMIT WITH REVIEW AND APPROVAL BY NATURAL RESOURCES.
- EXCAVATION WITHIN THE PROTECTIVE RADIUS OF TREES WILL REQUIRE ROOT PRUNING WITH THE APPROPRIATE EQUIPMENT TO ASSURE ROOTS ARE SEVERED CLEAN AT THE APPROVED RADIUS (10 FT. FOR PROTECTED TREES; 20 FT. FOR GRAND TREES). ROOTS 2 INCHES OR GREATER SHALL NOT BE PRUNED. FOR QUESTIONS REGARDING THESE REQUIREMENTS, PLEASE CONTACT THE PLANNING AND DEVELOPMENT, NATURAL RESOURCES SECTION AT 274-3100 OR 1400 N. BOULEVARD, TAMPA, FLORIDA 33607.



1 TREE PROTECTION BARRICADE
NTS

REFERENCE NOTES

SYMBOL	DESCRIPTION
1	PRUNE EXISTING TREES TO PROVIDE MINIMUM 7' CLEARANCE OVER ALL EXISTING SIDEWALKS
2	CONTACT CITY OF TAMPA TO OBSERVE PRUNING OF BRANCHES OVER PROPOSED WALKS. DO NOT PROCEED WITH PRUNING PRIOR TO REVIEW AND APPROVAL OF THE CITY.
3	REMOVE TRASH AND DEBRIS UNDER EXISTING CANOPY. REMOVE DEAD BRANCHES. DO NOT REMOVE LIVE BRANCHES OR CLEAR LOW BRANCHES IN THIS AREA WITHOUT APPROVAL OF THE CITY OF TAMPA

DAVID CONNER + ASSOCIATES
100 East Madison Street Suite #200 Tampa, FL 33602
813.258.1997 | dconnerassociates.com | LC0000319
Planning+LandscapeArchitecture+Design

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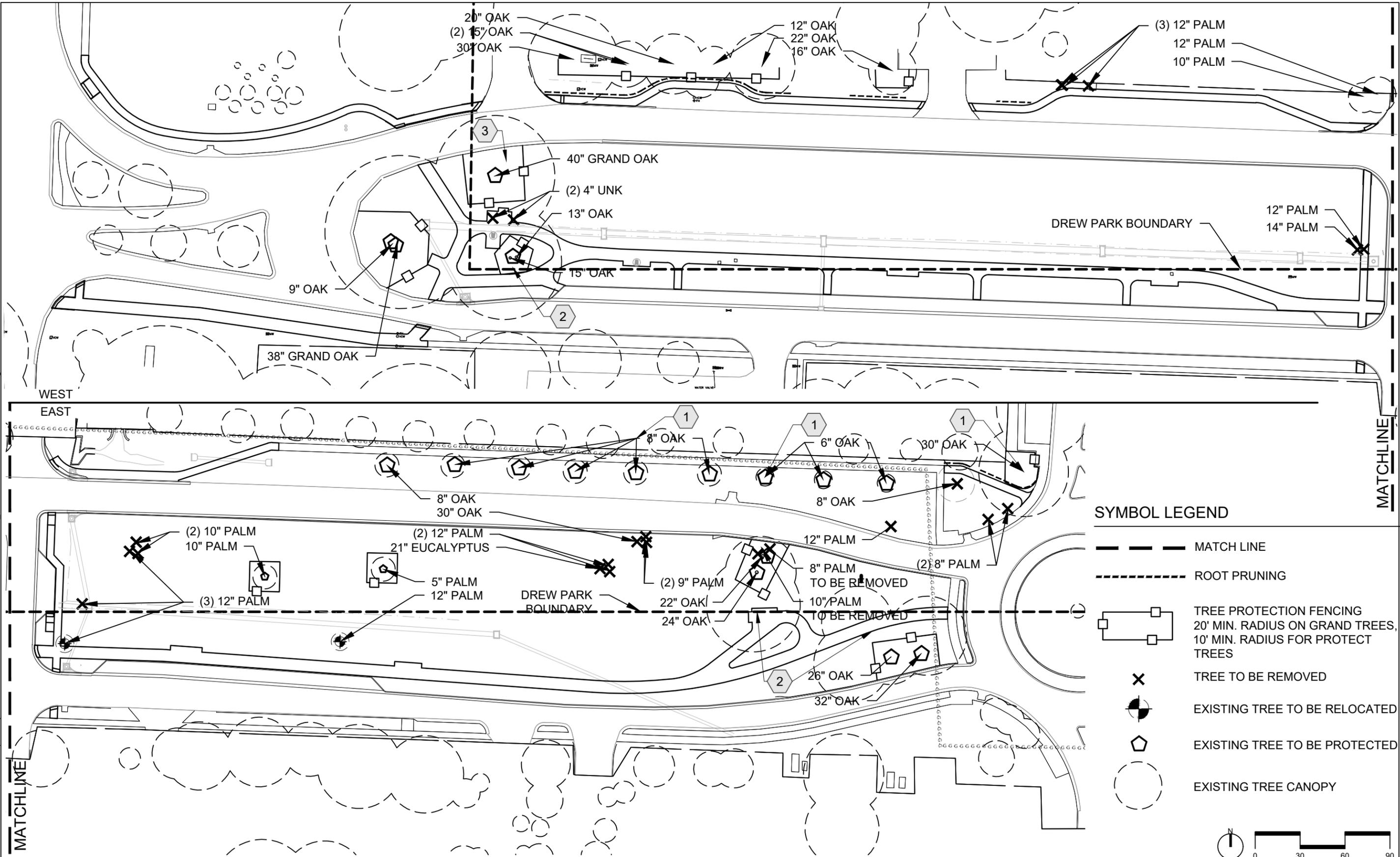
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AUGUST, 2018
DEPARTMENT OF ECONOMIC & URBAN DEVELOPMENT

**TAMPA BAY BLVD LINEAR PARK
TREE MITIGATION AND DEMO
NOTES**

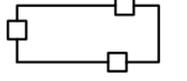
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Job No.	L-010
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SYMBOL LEGEND

-  MATCH LINE
-  ROOT PRUNING
-  TREE PROTECTION FENCING
20' MIN. RADIUS ON GRAND TREES,
10' MIN. RADIUS FOR PROTECT
TREES
-  TREE TO BE REMOVED
-  EXISTING TREE TO BE RELOCATED
-  EXISTING TREE TO BE PROTECTED
-  EXISTING TREE CANOPY



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By:			

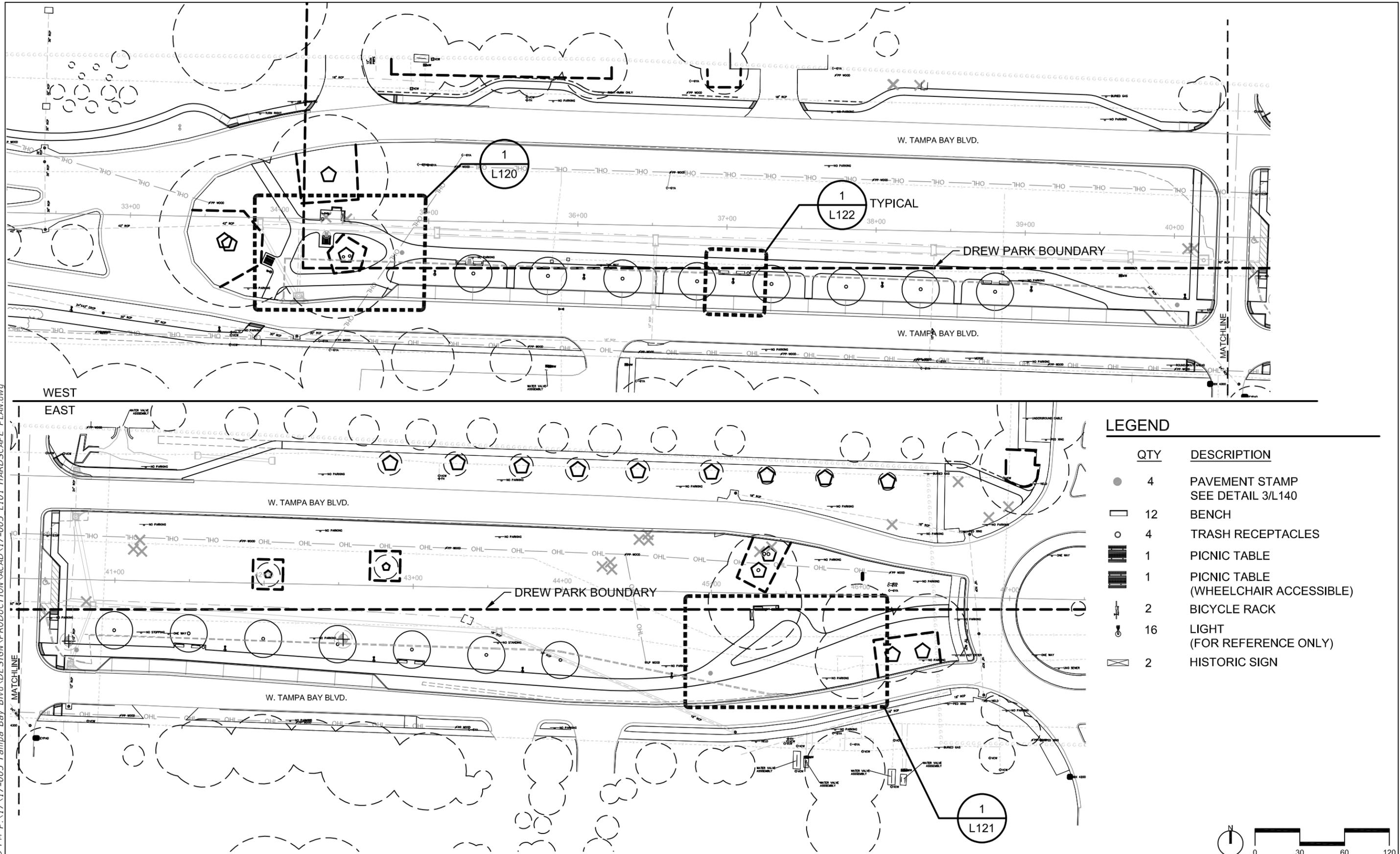
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TAMPA BAY BLVD LINEAR PARK
TREE DEMO AND PROTECTION PLAN

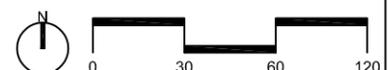
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LEGEND	
QTY	DESCRIPTION
● 4	PAVEMENT STAMP SEE DETAIL 3/L140
□ 12	BENCH
○ 4	TRASH RECEPTACLES
▬ 1	PICNIC TABLE
▬ 1	PICNIC TABLE (WHEELCHAIR ACCESSIBLE)
⌘ 2	BICYCLE RACK
⊙ 16	LIGHT (FOR REFERENCE ONLY)
⊠ 2	HISTORIC SIGN



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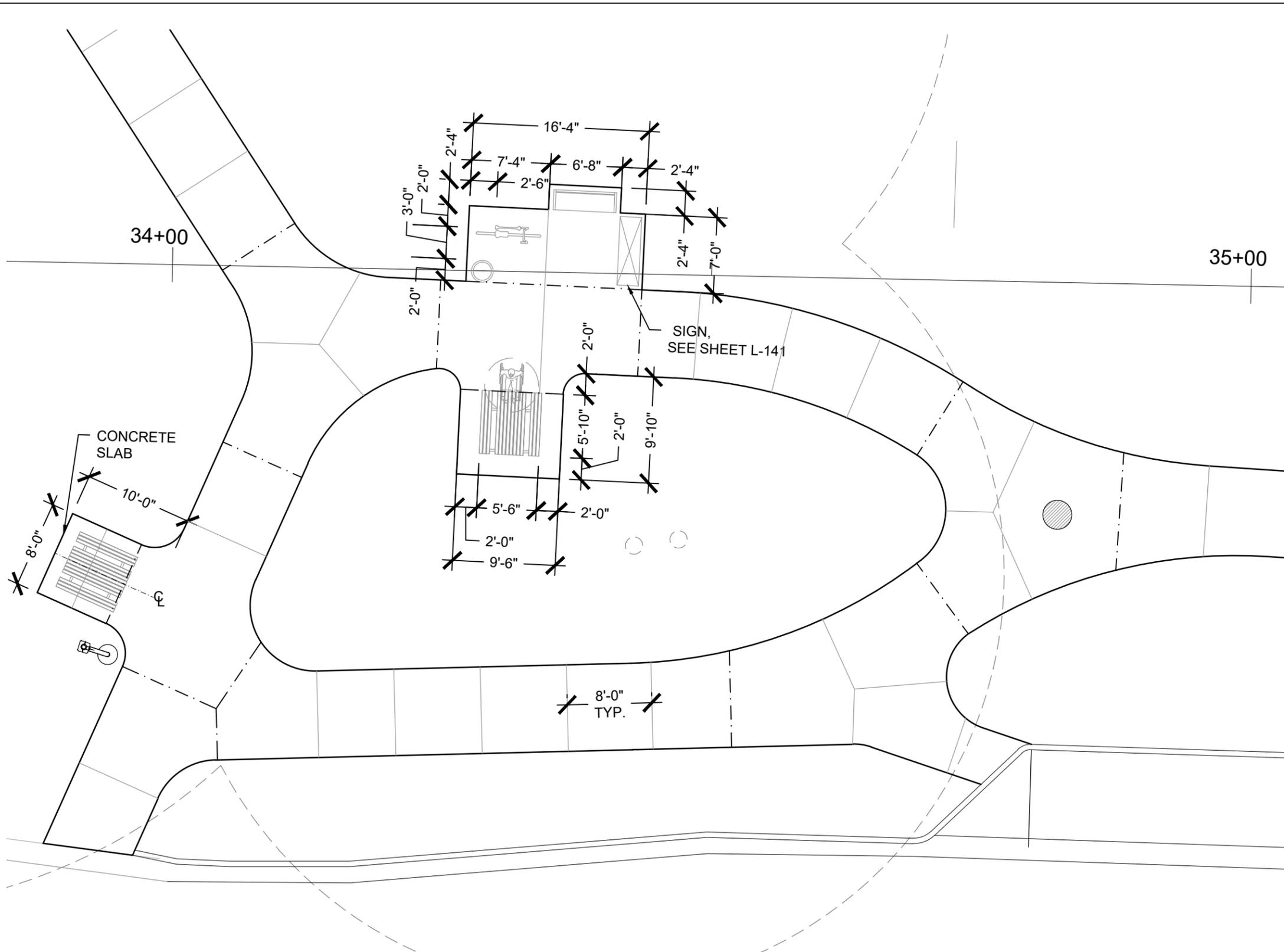
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TAMPA BAY BLVD. LINEAR PARK
SITE IMPROVEMENTS PLAN

Field Book:	
Atlas Sheet:	Index No.
File No.	
Job No.	
Scale:	
SHEET	L-100

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LEGEND		
QTY	DESCRIPTION	
4	PAVEMENT STAMP SEE DETAIL 3/L140	
12	BENCH	
4	TRASH RECEPTACLES	
1	PICNIC TABLE	
1	PICNIC TABLE (WHEELCHAIR ACCESSIBLE)	
2	BICYCLE RACK	
16	LIGHT (FOR REFERENCE ONLY)	
2	HISTORIC SIGN	

1 WEST TRAIL LOOP

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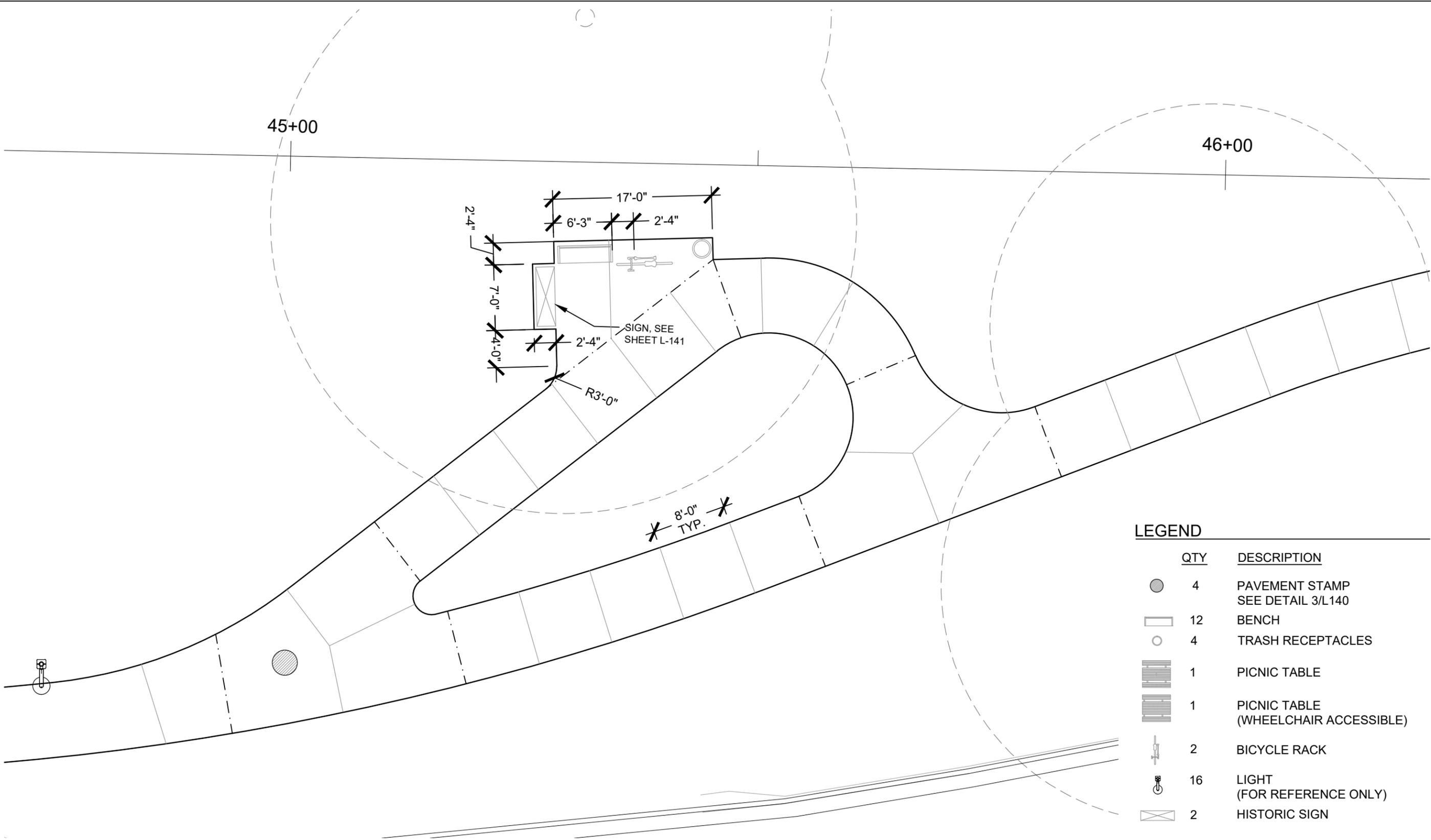
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**TAMPA BAY BLVD LINEAR PARK
 PLAN ENLARGEMENTS**

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Atlas Sheet:	
File No.	Index No.
Job No.	
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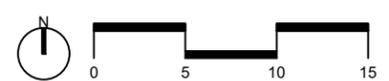
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LEGEND

QTY	DESCRIPTION
4	PAVEMENT STAMP SEE DETAIL 3/L140
12	BENCH
4	TRASH RECEPTACLES
1	PICNIC TABLE
1	PICNIC TABLE (WHEELCHAIR ACCESSIBLE)
2	BICYCLE RACK
16	LIGHT (FOR REFERENCE ONLY)
2	HISTORIC SIGN

1 EAST TRAIL LOOP



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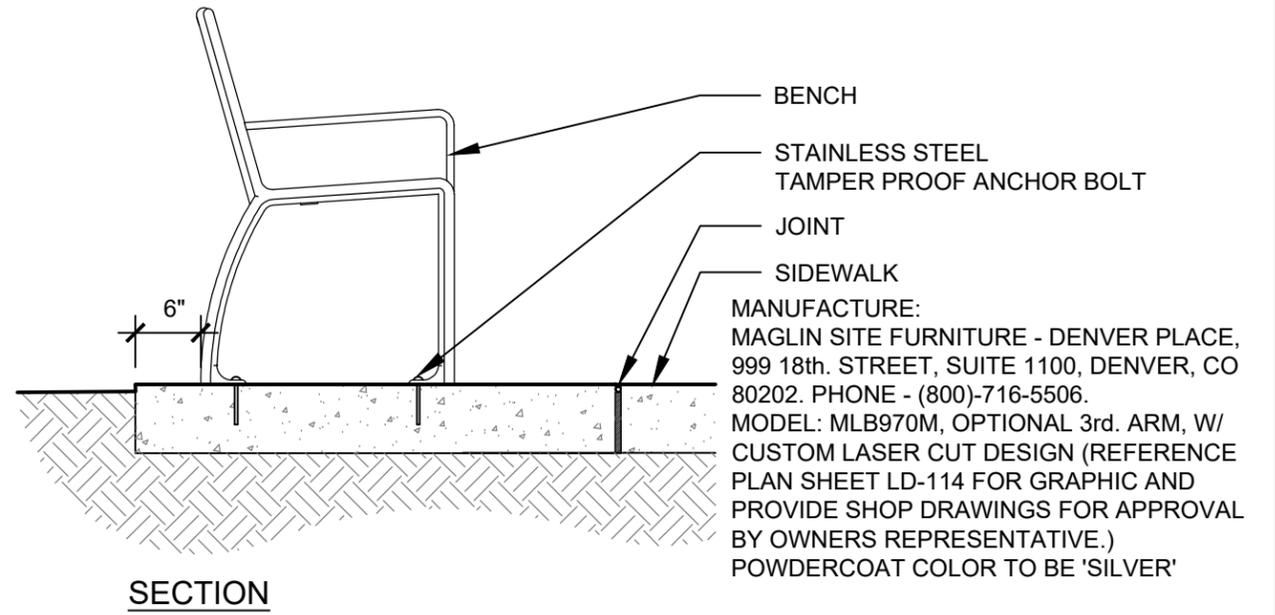
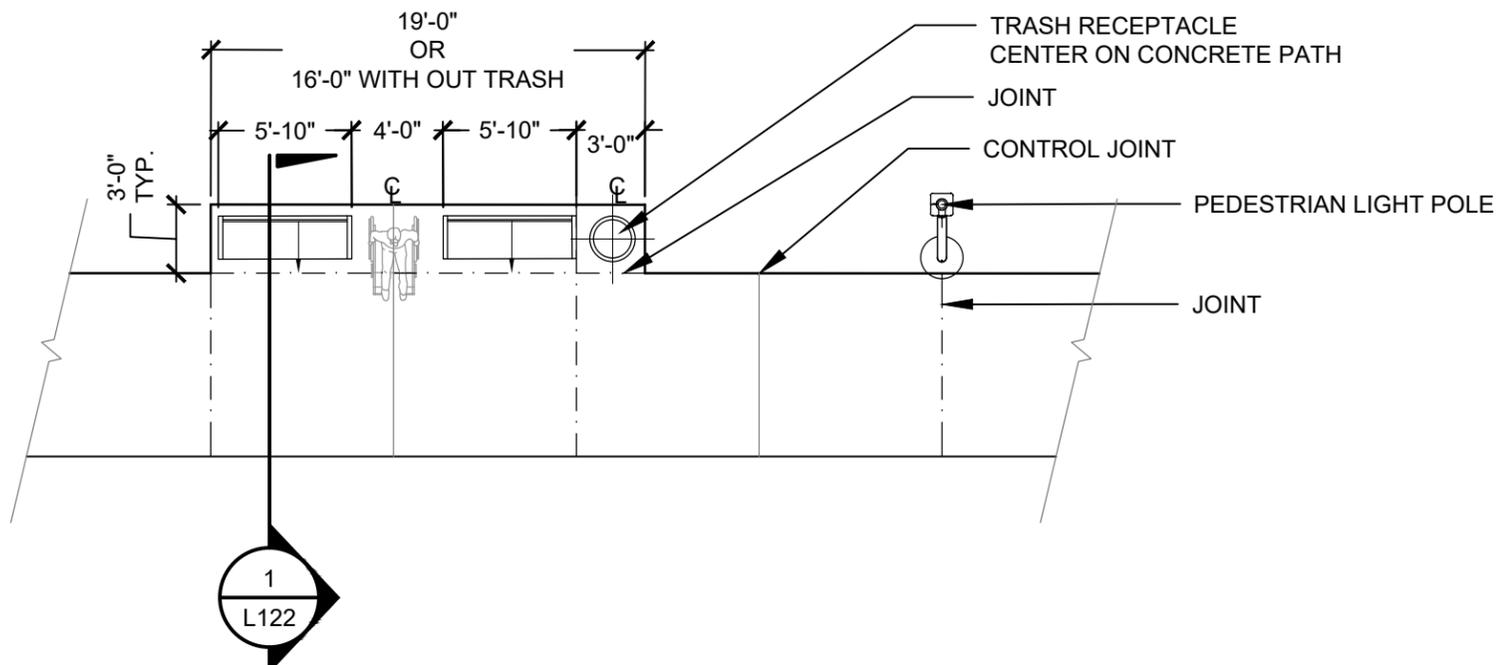
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**TAMPA BAY BLVD LINEAR PARK
 PLAN ENLARGEMENTS**

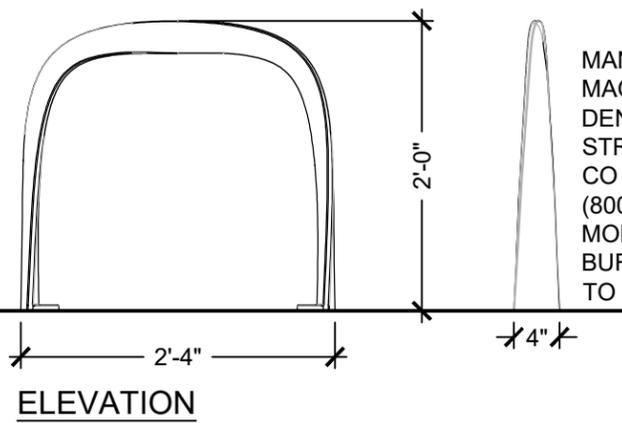
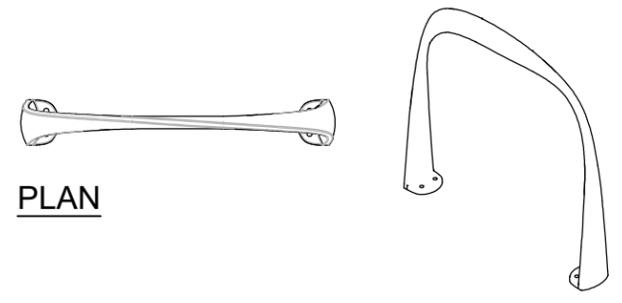
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Job No.	L-121
Scale:	
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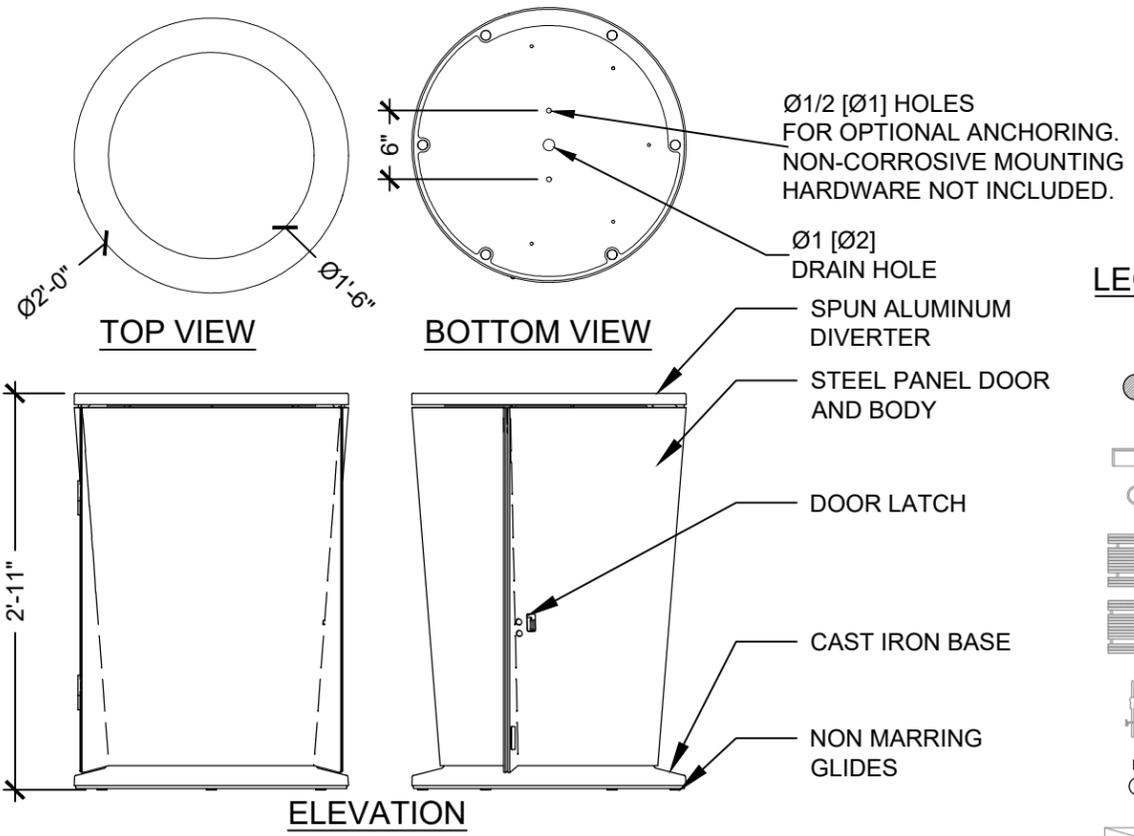


1 SEATING AREA TYPICAL
1/8" = 1'-0"



MANUFACTURER:
MAGLIN SITE FURNITURE -
DENVER PLACE, 999 18th.
STREET, SUITE 1100, DENVER,
CO 80202. PHONE -
(800)-716-5506.
MODEL: SCBR1600 DIRECT
BURIAL. POWDERCOAT COLOR
TO BE 'SILVER'

2 BIKE RACK
3/4" = 1'-0"



MANUFACTURE
LANDSCAPE FORMS - 431 LAWDALE
AVE, KALAMAZOO, MI 49048. PHONE -
(800)-521-2546.
MODEL: AUSTIN, SIDE OPENING,
SURFACE MOUNT, WITHOUT LOCK.
POWDERCOAT COLOR TO BE 'SILVER'

LEGEND		QTY	DESCRIPTION
		4	PAVEMENT STAMP SEE DETAIL 3/L140
		12	BENCH
		4	TRASH RECEPTACLES
		1	PICNIC TABLE
		1	PICNIC TABLE (WHEELCHAIR ACCESSIBLE)
		2	BICYCLE RACK
		16	LIGHT (FOR REFERENCE ONLY)
		2	HISTORIC SIGN

3 TRASH RECEPTACLES
3/4" = 1'-0"

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TAMPA BAY BLVD LINEAR PARK
PLAN ENLARGEMENTS

Field Book:	
Atlas Sheet:	
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Job No.	L-122
Scale:	
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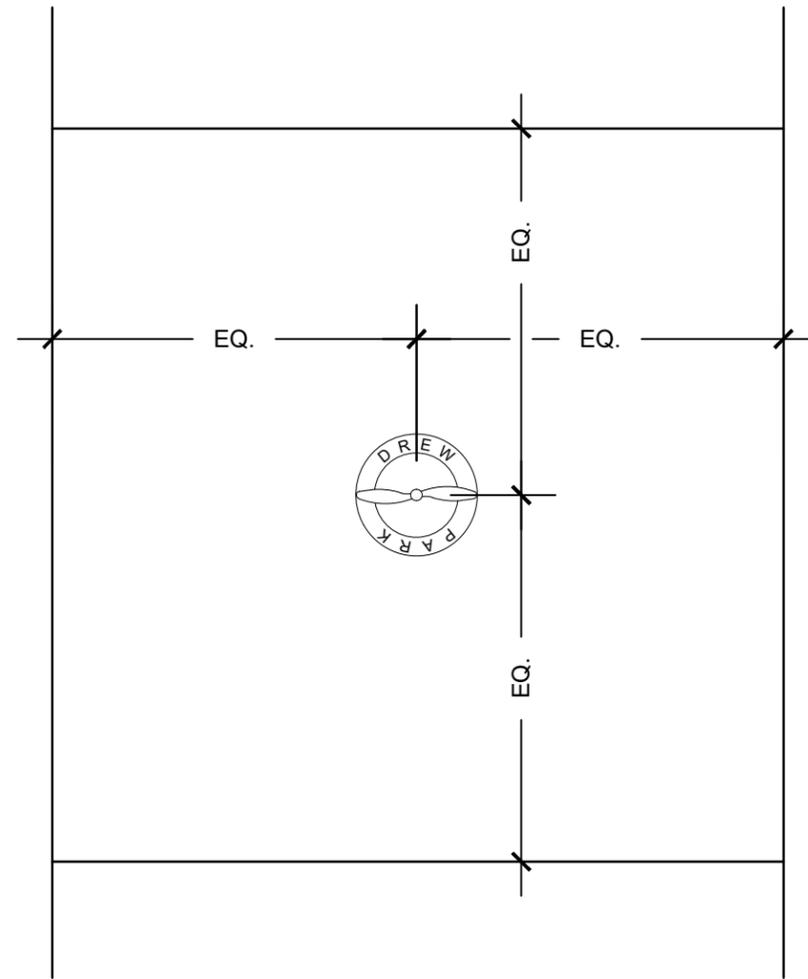
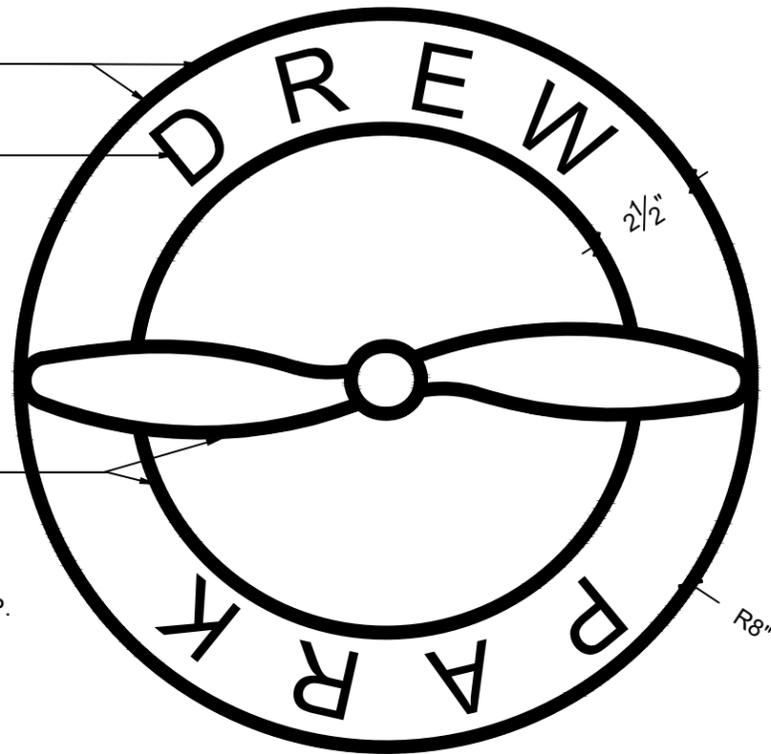
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ALL STAMP EDGES TO BE 1/4" THICK

1.5" HEIGHT ARIAL TEXT TYP.

ALL STAMP EDGES TO BE 1/4" THICK

NOTE: STAMP SHALL BE FABRICATED OUT OF METAL. ENTIRE STAMP IMPRESSION DEPTH SHALL BE 3/8" DEEP. PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW



TYPICAL PLACEMENT - N.T.S.

NOTE: STAMP LOCATIONS SHOWN IN HARDSCAPE PLANS ARE APPROXIMATE. ACTUAL STAMP LOCATIONS SHALL BE PLACED AS INDICATED IN THIS DETAIL AND VERIFIED IN THE FIELD BY LANDSCAPE ARCHITECT.

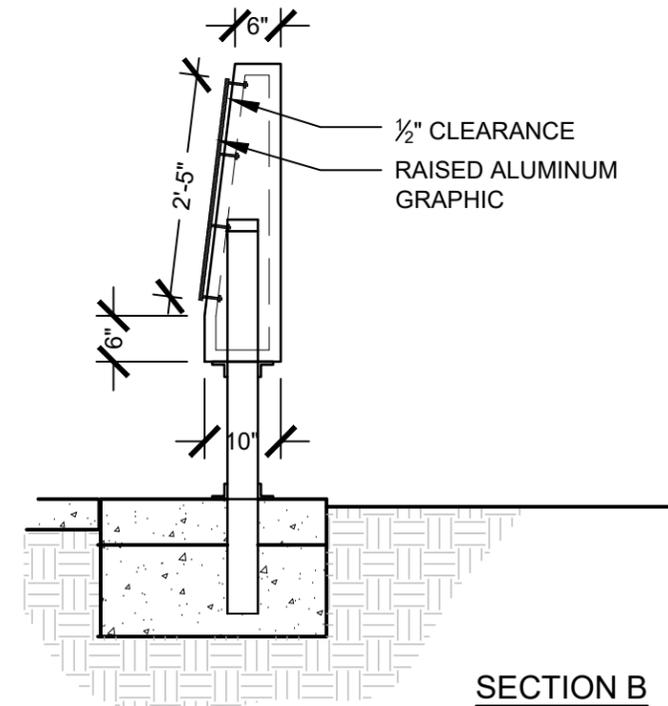
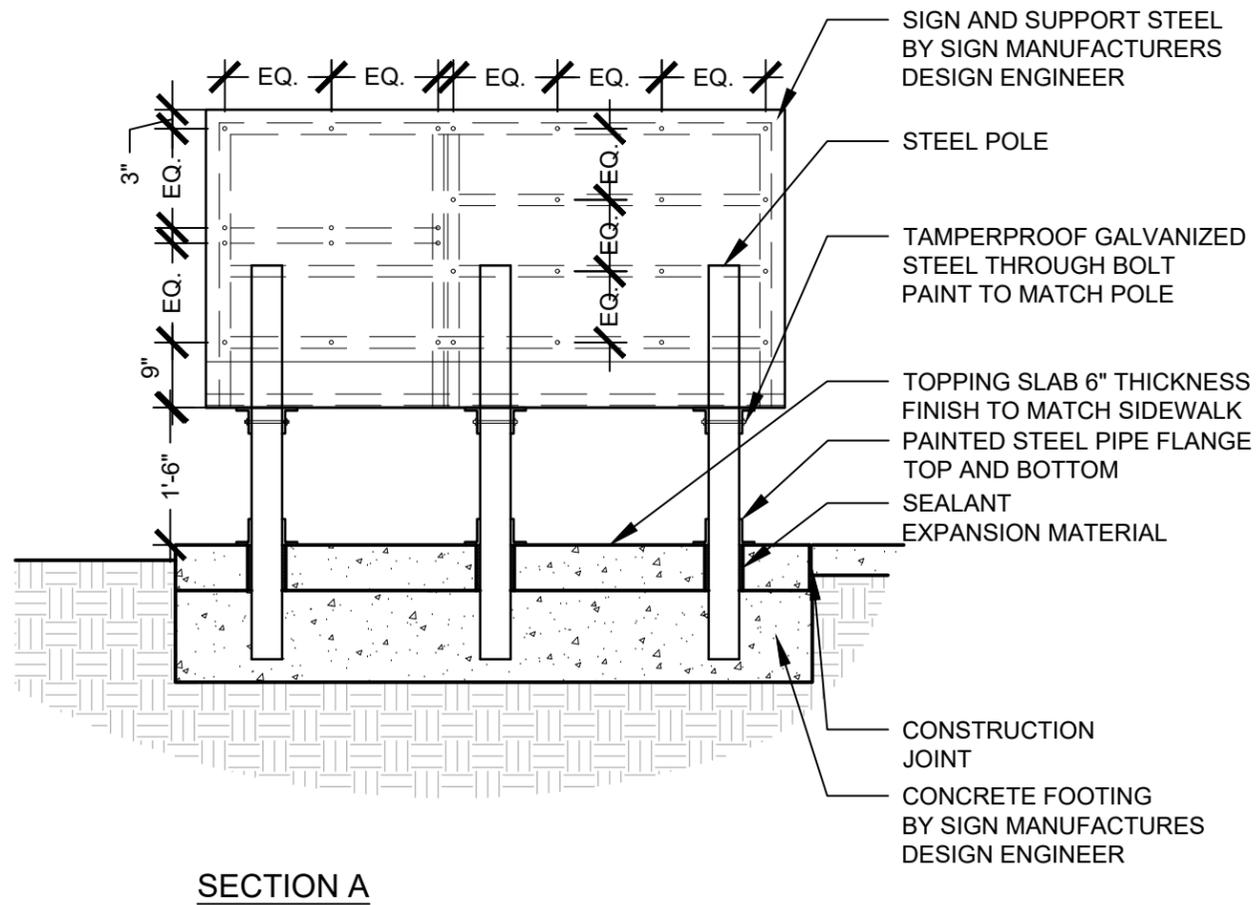
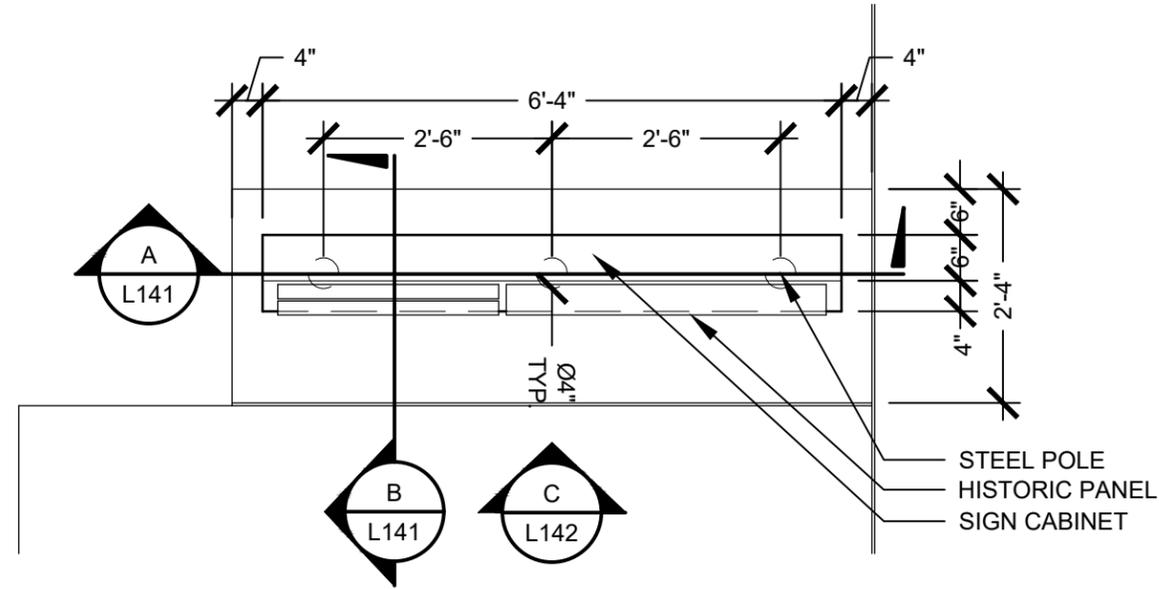
3 CONCRETE STAMP
3" = 1'-0"

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Field Book:	
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1 HISTORIC MARKER (SIGN)
1/2" = 1'-0"

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DEPARTMENT OF ECONOMIC & URBAN DEVELOPMENT

TAMPA BAY BLVD LINEAR PARK
HARDSCAPE DETAILS

Field Book:	
Atlas Sheet:	
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SHEET	L-141

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MEMORIAL GRAPHIC NOTES:

1. All materials and workmanship shall conform to the most recent edition of the building code in the city of Tampa and state of Florida where the work is to be constructed and installed. All work shall be performed to the highest professional standards and shall be free of imperfections in material and workmanship and be suitable for its intended use and location. The contractor shall have in-house, broad knowledge, diverse shop and field experience, flexibility, coordination ability, skilled craftsmen and physical plant necessary to produce quality products equivalent to or superior to similar type products produced by other contractors in the same area of expertise. It is intended that all finished work be of the highest quality to pass eye-level examination and scrutiny by the City of Tampa Representative. Contractor shall be responsible for all foundations as identified in the documents and structural engineering for the fabrication of the elements including their attachment to the footings. Structural design shall be in compliance with all applicable local, state and national codes and inspections.
2. The Contractor shall field verify/measure all dimensions and review all site conditions prior to commencing work. Contractor shall review site conditions prior to commencing with the work and notify the City of Tampa Representative in writing of any discrepancies, deviations or in consistencies in the drawings, specifications, descriptions, locations or conditions. Where no dimension is indicated, do not attempt to scale dimensions. Contact the City of Tampa Representative in writing for clarification before proceeding with the work.
3. Specific notes and details on drawings shall take precedence over general notes and typical details.
4. All elements shall be engineered to withstand wind load requirements as specified by Florida building codes.
5. The contract structural drawings and specifications represent the footings anticipated to support the design feature as indicated on the plans. The design features do not indicate the method of construction, nor all details of fabrication required for the complete structural integrity of the elements, including consideration for static, dynamic and erection loads during handling, erecting and service at the installed locations, nor do they take into consideration the preferred shop practices of the individual contractors, therefore, it shall be the responsibility of the Contractor to perform the complete structural design of the element and to incorporate all reasonable safety factors necessary to protect the City of Tampa, David Conner & Associates and our consultants, and Contractor against liability.
6. All work must be performed in accordance with all federal, state and local safety laws.
7. Contractor shall provide five (5) sets of shop drawings to the City of Tampa for approval, including required

engineering, which shall be sealed by an engineer licensed in the state of Florida. Contractor shall incorporate all modifications or corrections to the shop drawings, and resubmit for approval. Once the shop drawings have been approved, Contractor may proceed with required submittals, however work shall not commence until submittals have been approved, and Contractor receives written authorization to proceed from the City of Tampa Representative.

ALUMINUM:

1. All aluminum shall conform to aluminum association specifications of hardness and dimensional tolerances.
2. Aluminum sheet and plate shall conform to ASTM B 209, Alloy 5000 series for anodized finish, Alloy 5000 series for painted finish.
3. Provide with mill finish for work which will receive a painted finish.
4. Extruded aluminum shall be Alloy 6063-T5. Provide with mill finish for work which will receive a painted finish.
5. Unless otherwise specifically approved in writing by the client representative, furnish exact sections, weights and kinds of material specified, using details and dimensions shown. Not all connections are detailed; similar details apply to similar conditions, unless otherwise indicated. Contact the City of Tampa representative promptly to verify design of members or connections in any situation where design requirements are unclear.
6. Establish that joint welding procedures are pre-qualified or tested in accordance with American Welding Society (AWS) qualification procedures.
7. Welders must be currently certified under American Welding Society (AWS) qualification procedures.
8. Materials provided shall be free of surface blemishes such as pitting, roller marks, rolled trade names and surface roughness.

STRUCTURAL STEEL:

1. Fabrication of structural steel framing members shall be in accordance with the latest edition of the AISC "Code of Standard Practice for Steel Buildings and Bridges."
2. Establish that joint welding procedures are pre-qualified or tested in accordance with American Welding Society (AWS) qualification procedures.
3. Welders must be currently certified under American Welding Society (AWS) qualification procedures. 500.
5. Steel pipe columns shall conform to ASTM A 53.

6. Galvanized anchor bolts shall conform to ASTM A 307. Carbon steel, Grade C. Galvanized steel plate washers and nuts shall conform to ASTM A 36.
7. High-strength structural bolts shall conform to ASTM A 325, with matching ASTM A 563 nuts and ASTM F 436 washers.
8. Carbon steel nuts and bolts shall conform to ASTM A 307. Provide hexagonal bolt heads and nuts at all exposed locations.
9. Welding electrodes and fluxes shall conform to ASTM Standards for the application.
10. Shop fabricate and assemble to maximum degree possible in compliance with requirements of AISC specifications. Cut, fit and assemble units with exposed surfaces smooth, square and free from cutting marks, shear distortion, burrs and nicks. Tolerances shall be as specified in AISC code unless more stringent requirements are indicated on the drawings. Perform thermal cutting by machine, to greatest extent possible. Plain thermally cut edges which are to be welded.
11. Comply with requirements of AWS code for welding procedures and quality of welds, including appearance. For built-up sections, assemble components and weld using procedures which will maintain proper alignment of finished section. Verify that weld sizes, fabrication sequence and equipment to be employed will limit distortions to allowable tolerances. Surface bleed of backside welding on exposed surfaces will not be acceptable. Grind smooth exposed fillet welds 1/2 inch and larger. Grind flush all butt welds. Dress all exposed welds.
12. Accurately mill ends of columns and other members which must transmit loads in bearing. Make all holes in steel members by means of cutting, drilling or punching at right angles to surface of metal. Do not make or enlarge holes by burning. Provide holes in steel members as required to permit connection of work by others.
13. Examine areas and conditions for erection of structural steel and verify that work may properly proceed. Provide temporary support as required including guys, braces, falsework, cribbing or other elements required to secure steel framing against loads equal in intensity to design loads. Remove such temporary support only when permanent connections have been made and steel framing is fully capable of supporting design loads, including any temporary construction loads.
14. Erect structural steel in compliance with AISC code and specifications dealing with architecturally exposed structural steel. Set structural members accurately to locations and elevations indicated, within tolerances established in AISC code, before making final

connections. Do not use thermal cutting to correct fabrication errors on any major structural member.

15. Clean bearing and contact surfaces before assembly. Slightly roughen concrete and masonry surfaces to improve bond. Set base and bearing plates accurately, using metal wedges, shims or setting nuts as required.
16. After tightening anchor bolts and ensuring that structure is plumb. Grout solidly between plates and bearing surfaces. Comply with manufacturer's instructions for non-shrink grout.
17. Use high-strength bolts which comply with requirements of AISC "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
18. Do not perform welding when ambient temperature is below manufacturers recommendations, or when surfaces are wet, exposed to rain, high wind. Perform field welding in accordance with AWS "Structural Welding-Steel." Tighten and leave in place erection bolts used in field-welded construction. Verify that weld sizes, erection sequence and equipment to be employed will limit distortions to allowable tolerances.

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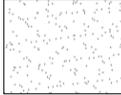
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**TAMPA BAY BLVD LINEAR PARK
 HISTORIC MARKER (SIGN)
 GENERAL NOTES**

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	
Scale:	
SHEET	L-143

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PLANTING SCHEDULE

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	REMARKS	
ULM BX6	15	ULMUS PARVIFOLIA `BOSQUE` / BOSQUE ELM	B & B	6" CAL.	26` HT. X 16` SP.		
PALM TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	REMARKS	
SAB SAB	2	SABAL PALMETTO / CABBAGE PALMETTO	RELOCATED		8` CLEAR TRUNK	NEW LOCATIONS NOTED IN PLANS	
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	CONT	SIZE	REMARKS		
ZAM PUM	144	ZAMIA PUMILA / COONTIE	#7	20" HT X 20" SP			
TURF	QTY	BOTANICAL NAME / COMMON NAME	CONT	SIZE	SPACING	SPACING	REMARKS
	112,125 SF	PASPALUM NOTATUM `ARGENTINE` / ARGENTINE BAHIAGRASS	SOD				

PLANTING NOTES

- TREES SHALL BE ALIGNED AS SHOWN IN PLANS. SET AT CORRECT DEPTH PER DETAIL AND SPECIFICATIONS.
- PLANTING SOIL AND GRADING TO BE REVIEWED PRIOR TO INSTALLATION OF PLANTS OR SOD.
- SEE L340 FOR ALL PLANTING DETAILS.
- REPAIR DAMAGED AREAS WITH BAHIA SOD; INSTALL FLUSH WITH CLEAN CUT EDGES. SEE PLANTING FOR SPECIFICATION

SYMBOL LEGEND

-  EXISTING TREE CANOPY
-  AREA TO BE MULCHED; NO PLANTING

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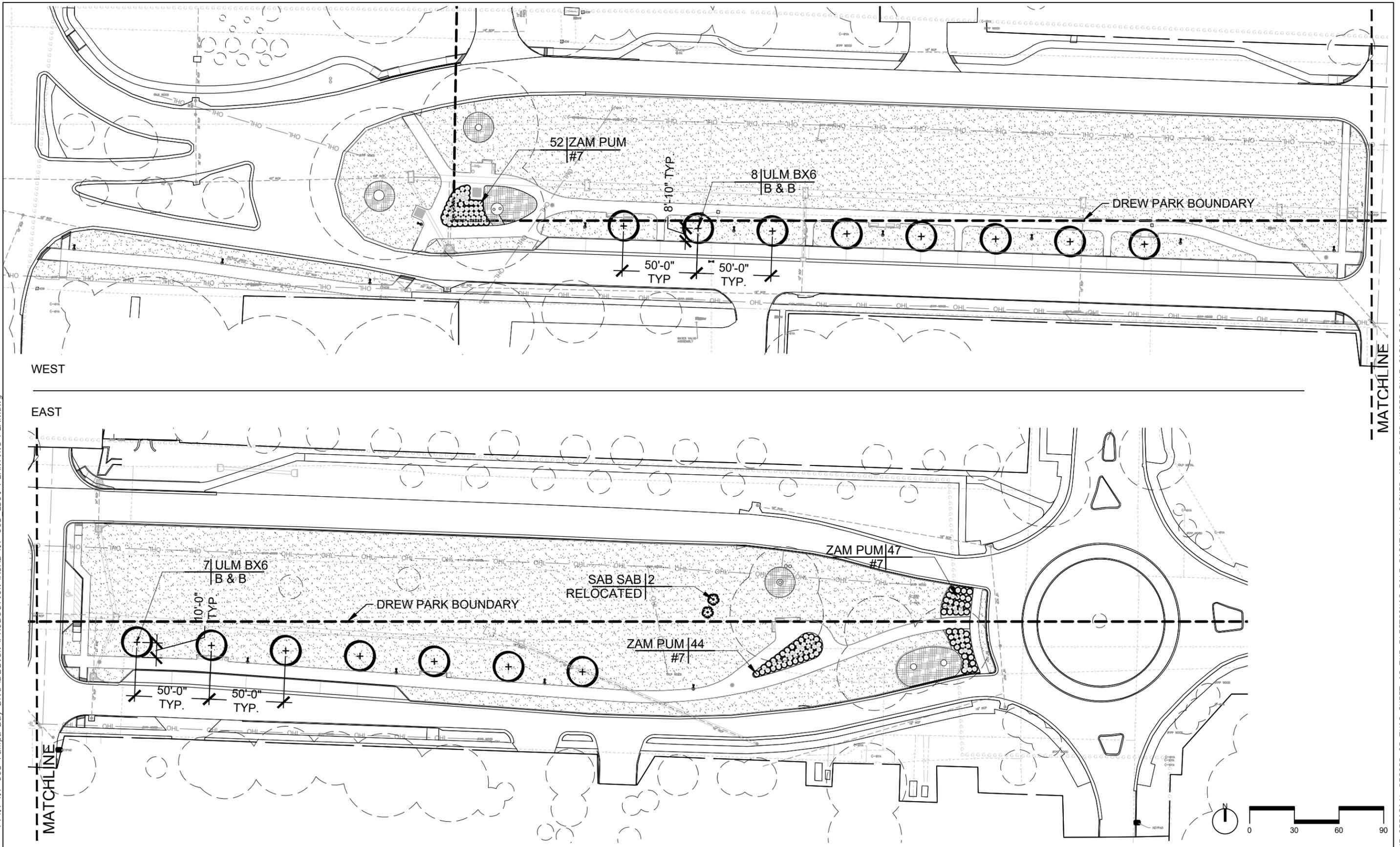
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**TAMPA BAY BLVD LINEAR PARK
 PLANTING NOTES AND
 SCHEDULE**

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Job No.	L-300
Scale:	
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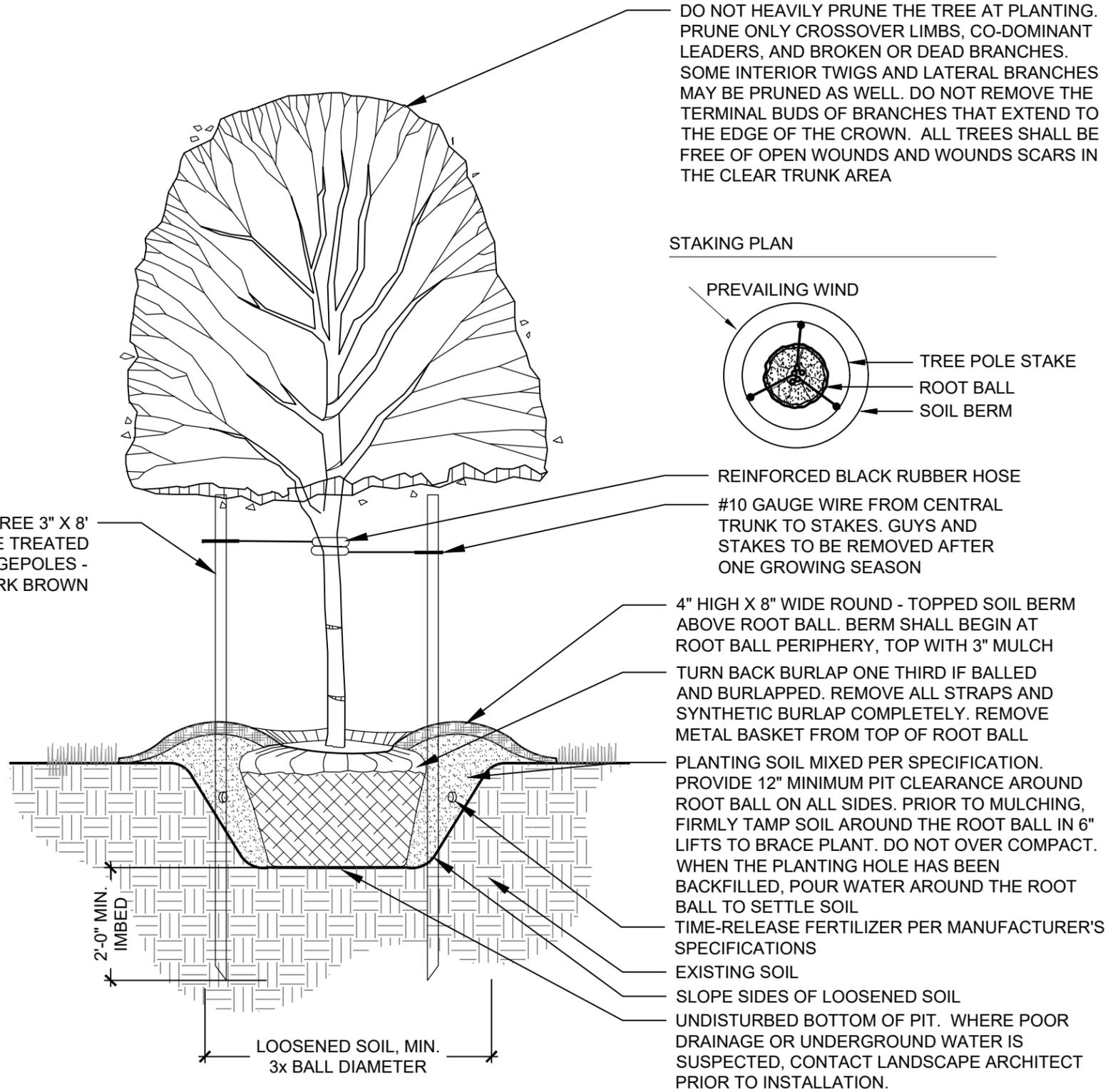
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TAMPA BAY BLVD LINEAR PARK
PLANTING PLAN

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Job No.	L-301
Scale:	
SHEET	

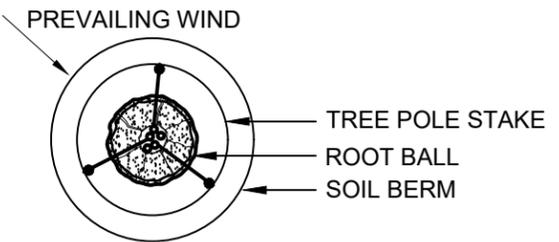
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DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED AS WELL. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. ALL TREES SHALL BE FREE OF OPEN WOUNDS AND WOUNDS SCARS IN THE CLEAR TRUNK AREA

STAKING PLAN



THREE 3" X 8' PRESSURE TREATED PINE LODGEPOLES - PAINT DARK BROWN

REINFORCED BLACK RUBBER HOSE
#10 GAUGE WIRE FROM CENTRAL TRUNK TO STAKES. GUYS AND STAKES TO BE REMOVED AFTER ONE GROWING SEASON

4" HIGH X 8" WIDE ROUND - TOPPED SOIL BERM ABOVE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY, TOP WITH 3" MULCH
TURN BACK BURLAP ONE THIRD IF BALLED AND BURLAPPED. REMOVE ALL STRAPS AND SYNTHETIC BURLAP COMPLETELY. REMOVE METAL BASKET FROM TOP OF ROOT BALL

PLANTING SOIL MIXED PER SPECIFICATION. PROVIDE 12" MINIMUM PIT CLEARANCE AROUND ROOT BALL ON ALL SIDES. PRIOR TO MULCHING, FIRMLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE PLANT. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE SOIL

TIME-RELEASE FERTILIZER PER MANUFACTURER'S SPECIFICATIONS
EXISTING SOIL
SLOPE SIDES OF LOOSENED SOIL
UNDISTURBED BOTTOM OF PIT. WHERE POOR DRAINAGE OR UNDERGROUND WATER IS SUSPECTED, CONTACT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

2'-0" MIN. IMBED

LOOSENED SOIL, MIN. 3x BALL DIAMETER

1 TREE PLANTING
1/4" = 1'-0"

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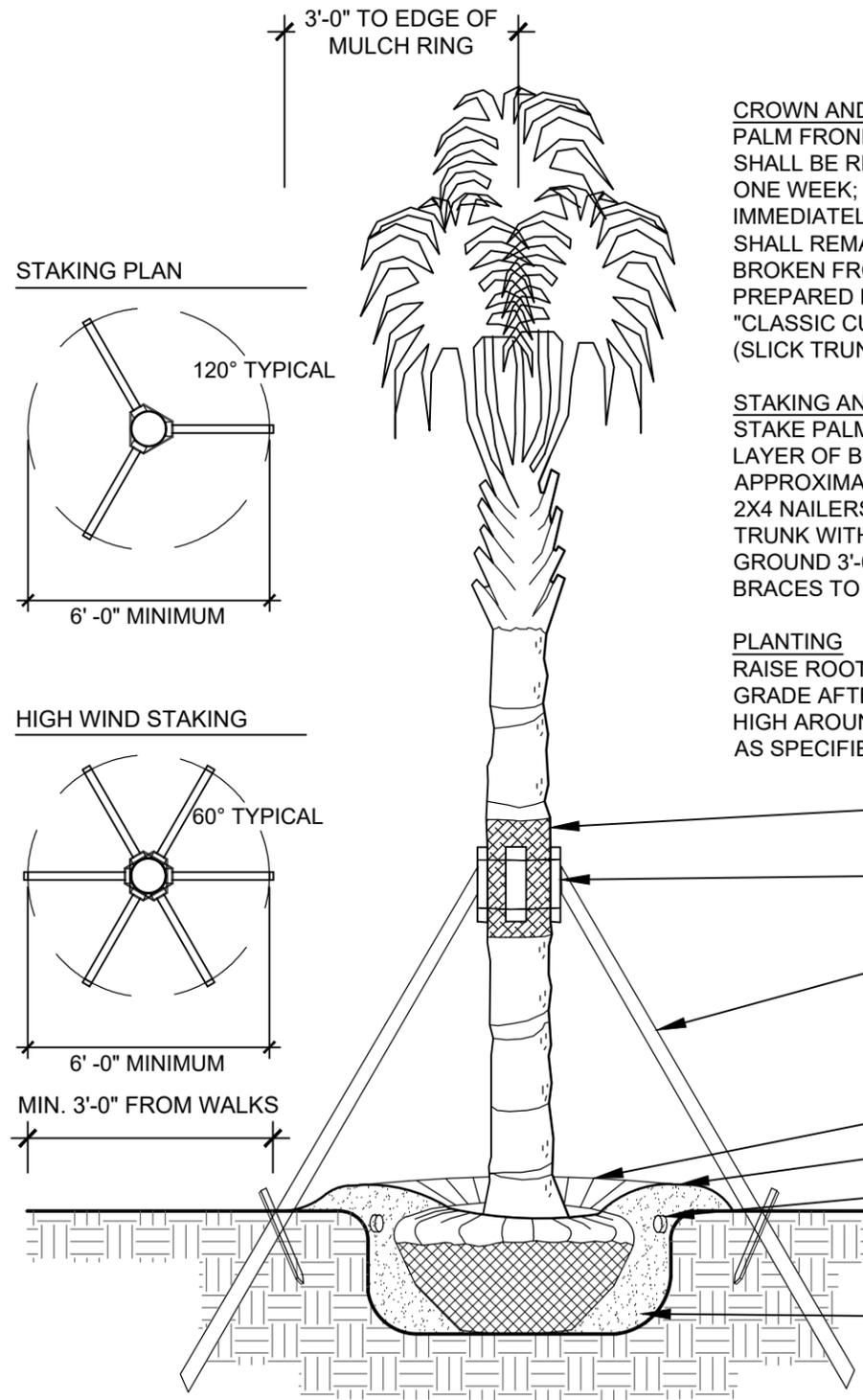
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AUGUST, 2018
DEPARTMENT OF ECONOMIC & URBAN DEVELOPMENT

TAMPA BAY BLVD LINEAR PARK
PLANTING DETAILS

Field Book:	
Atlas Sheet:	
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Scale:	
SHEET	L-340

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CROWN AND TRUNK

PALM FRONDS SHALL BE TIED UP UNTIL AFTER PLANTING. TIES SHALL BE REMOVED AFTER PLANTING AS FOLLOWS: DATE PALM, ONE WEEK; WASHINGTON PALM, IMMEDIATELY; QUEEN PALM, IMMEDIATELY; SABAL PALMS WHICH ARE NOT "HURRICANE CUT" SHALL REMAIN TIED FOR SIX MONTHS. REMOVE ALL DEAD OR BROKEN FRONDS. NEVER CUT BUD. ALL TRUNKS SHALL BE PREPARED PRIOR TO DELIVERY. DATE PALM TRUNKS SHALL BE "CLASSIC CUT", SABAL PALMS SHALL BE BOOTED OR SHAVED (SLICK TRUNK) AS SPECIFIED.

STAKING AND GUYING

STAKE PALMS UTILIZING THE "NO NAILS" METHOD. WRAP A TRIPLE LAYER OF BURLAP 2'-0" WIDE AROUND THE TRUNK AT APPROXIMATELY 4'-0" ABOVE THE GROUND. STRAP TWO SHORT 2X4 NAILERS AT THREE LOCATIONS 120 DEGREES APART TO THE TRUNK WITH PACKING STRAPS. DRIVE 2X4 STAKE 3'-0" INTO GROUND 3'-0" FROM TRUNK IN ALIGNMENT WITH NAILERS. NAIL 2X4 BRACES TO NAILER AND STAKE.

PLANTING

RAISE ROOT BALL SO THAT IT WILL BE 2" ABOVE SURROUNDING GRADE AFTER SETTING. PROVIDE WATERING RING 8" WIDE AND 6" HIGH AROUND PLANTING PIT. COVER WITH MINIMUM 2" MULCH, OR AS SPECIFIED. KEEP MULCH 3" AWAY FROM TRUNK.

- THREE (3) LAYERS OF BURLAP TO PROTECT PALM TRUNK
- THREE 2" x 6" x 12" P.T. WOOD BATTENS WITH TWO STEEL BANDS TO SECURE BATTENS. PAINT DARK BROWN
- THREE 2" x 4" P.T. WOOD BRACES TOE NAIL (16D GALV. NAILS, 3 MIN.) TO BATTENS. DRIVE BRACES TO UNDISTURBED EARTH. PAINT DARK BROWN. ALL BRACING TO BE REMOVED AFTER ONE GROWING SEASON
- 2" MULCH MINIMUM
- 6" SOIL BERM
- PROVIDE APPROPRIATE TIME-RELEASE FERTILIZER PER MANUFACTURER'S RECOMMENDATIONS
- TOPSOIL - SEE SPECIFICATION. PROVIDE CLEARANCE AROUND ROOTBALL OF 12" ON ALL SIDES. SET PALM ROOT BALL ON STABLE NATIVE SOIL TO PREVENT SETTLING. FIRMLY TAMP BACKFILL AROUND ROOTBALL IN 6" LIFTS

1 PALM PLANTING
1/4" = 1'-0"

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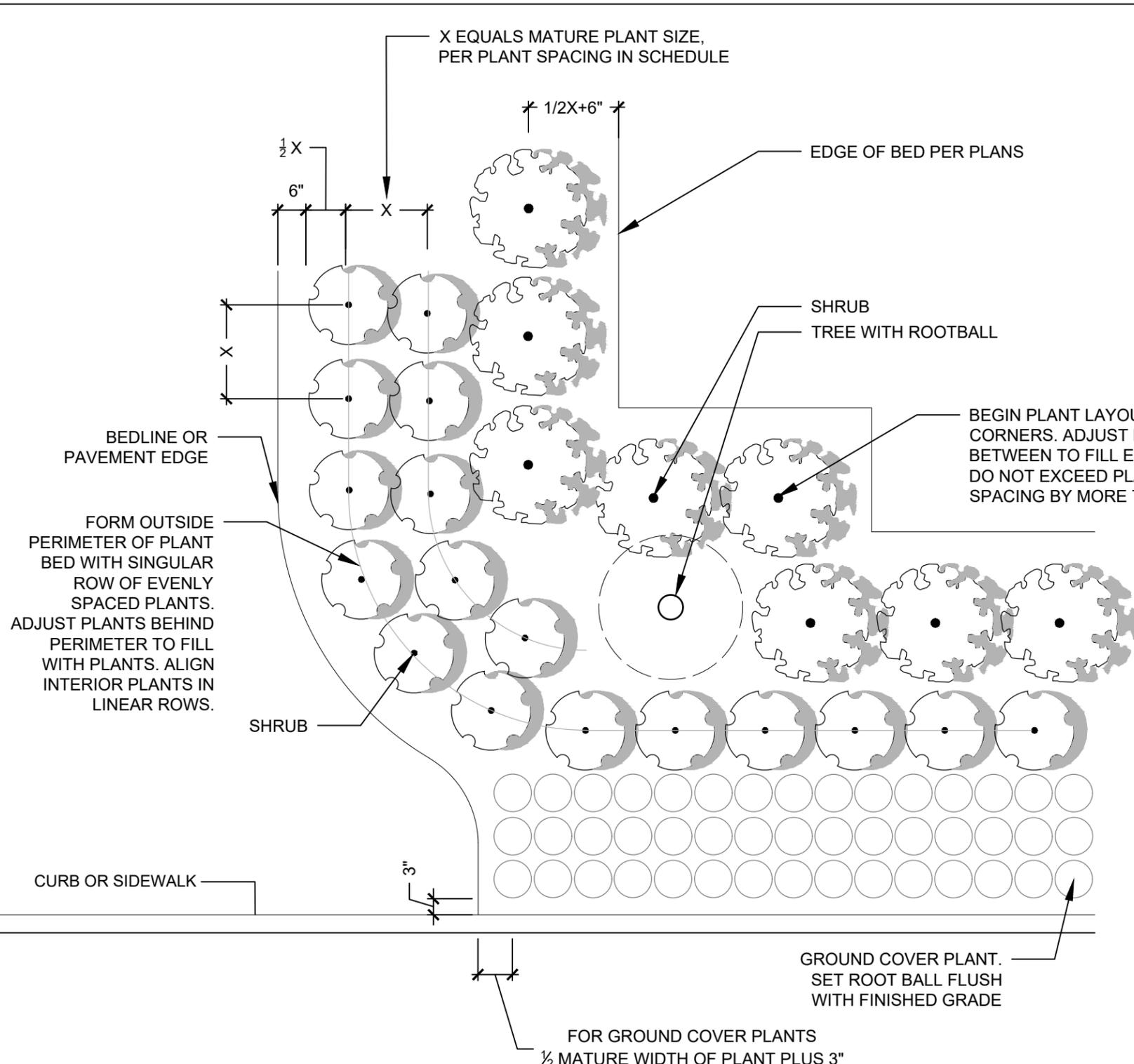
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TAMPA BAY BLVD LINEAR PARK
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1 PLANTS AT EDGE OF PAVEMENT
1/2" = 1'-0"

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TAMPA BAY BLVD LINEAR PARK
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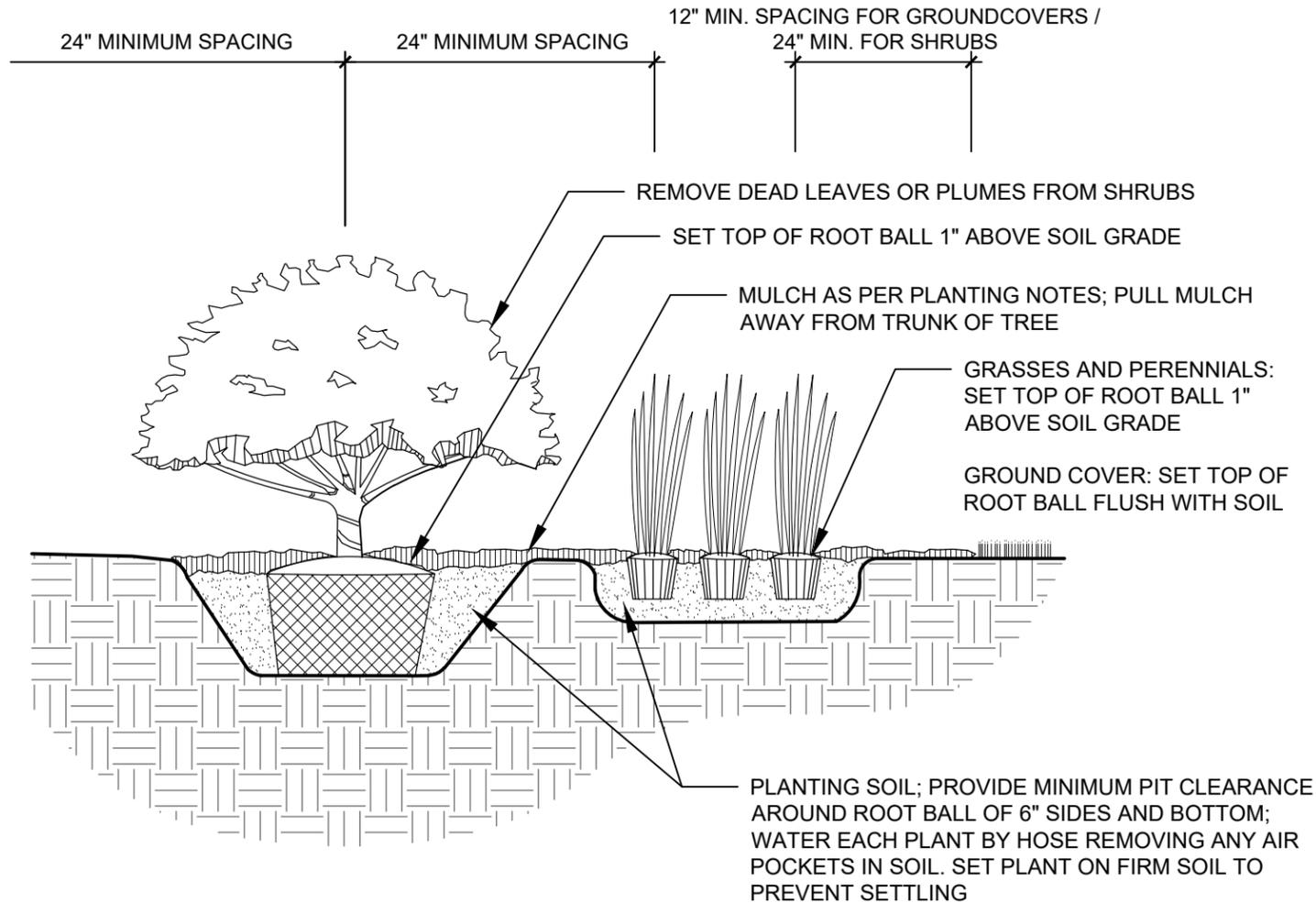
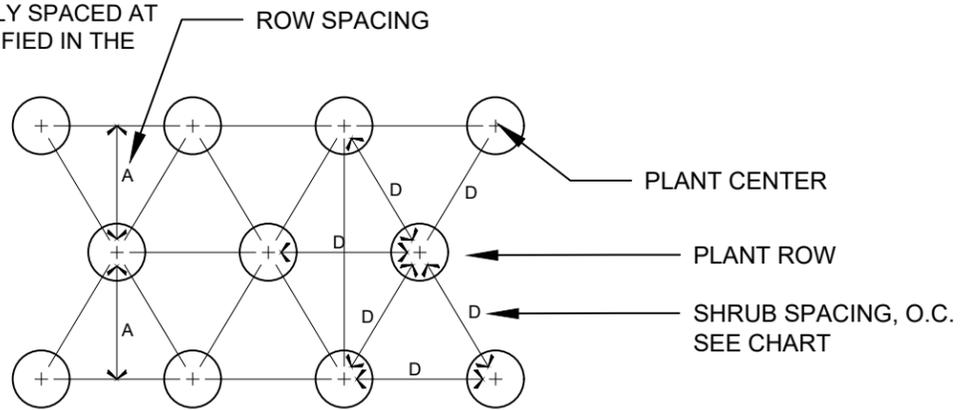
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NOTE:

ALIGN SHRUBS AND GROUNDCOVERS IN STRAIGHT ROWS; TRIANGULAR PATTERN; EQUALLY SPACED AT THE DISTANCE AND QUANTITIES SPECIFIED IN THE PLANT SCHEDULE.

'D' Plant Spacing	"A" Row Spacing	Number of Plants Per Square Foot
8"	6.93"	3.093
12"	10.39"	1.149
15"	12.99"	0.741
18"	15.59"	0.513
24"	20.78"	0.289
30"	25.98"	0.184
36"	31.17"	0.128



1 SHRUBS AND GROUNDCOVERS PLANTING
1/4" = 1'-0"

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CITY OF TAMPA PARKS DEPARTMENT IRRIGATION SPECIFICATION & NOTES

- CONTRACTOR SHALL VERIFY WATER SOURCE FOR SIZE & PRESSURE.
- VERIFY POWER SOURCE A/C OR D/C-MIR5000 D/C REQUIRES SPECIAL WIRING.
- DESIGN SHALL BE FOR 'HEAD-TO-HEAD' COVERAGE.
- TREES SHALL BE WATERED WITH BUBBLERS AND ON SEPARATE ZONES FROM SHRUBS, ETC.
- ALL LATERALS TO HEADS SHALL BE MINIMUM OF 1" ON ROTORS & 3/4" ON POP-UPS.
- NOZZLE AND ZONE SIZE SHALL BE CALCULATED TO PROVIDE MAXIMUM PRECIPITATION RATE TO REDUCE WATERING TIME (BASED ON METER SIZE).
- PIPE SIZE - NO FLOW SHALL EXCEED 4 FEET PER SECOND.
- ALL PIPE SHALL BE SCHEDULE 40 PVC.
- ROTOR SPRINKLERS - HUNTER I-20 OR I-25.
- POP-UP SPRINKLERS - RAINBIRD 1800.
- BUBBLERS - RAINBIRD #1404 OR AS SPECIFICALLY NOTED (2 PER TREE).
- K-FLEX SHALL BE INSTALLED TO ATTACH SPRINKLERS & BUBBLERS TO LATERALS (NOT SWING-JOINTS).
- LOW-VOLUME IRRIGATION - RAINBIRD DRIPLINE - USE BARBED (COMPRESSION IN MANIFOLDS).
- BACKFLOW PREVENTOR - PVB INSTALLED 24" HIGH ON GALVANIZED STEEL PIPE ASSEMBLY IN CONCRETE PAD.
- ELECTRIC VALVES - IRRITROL SERIES 200B WITH FLOW CONTROL BY TORO.
- SYSTEMS WITH (3) OR MORE ZONES REQUIRE A MASTER VALVE W/BLUE ZONE WIRE.
- ZONE WIRE 14-2 DIRECT BURIAL COLOR-CODED WIRE WITH TWO EXTRA WIRES (BLACK) RUNNING TO THE FURTHEST VALVE IN EACH DIRECTION. KING WIRE NUTS TO BE USED IN ALL SPLICES. GLUE - WELD-ON #705 or #717 or #727 CLEAR AND WELD-ON PURPLE PRIMER.
- FLOW METER BY METER MASTER INC. - FOR USE WITH MIR SYSTEM.
- FLOW METER WIRE SHALL BE 14/2 SOLID CONDUCTOR WITH HEAVY PLASTIC SHIELDING, DIRECT BURIAL.
- RECLAIMED WATER: USE ALL PURPLE MATERIALS FOR RECLAIMED WATER APPLICATIONS.

IRRIGATION SYSTEM LEGEND									
SYMBOL	MODEL / DESCRIPTION	TYPE	MOUNT / BODY TYPE	PERFORMANCE					NOTES
				RADIUS@ 30 P.S.I.	ARC	O.P.	FLOW GPM	PRECIP. IN/HR	
	RAINBIRD #1402 BUBBLER NOZZLE	TREE BUBBLER		1.5 FT.	3-STREAM 180 DEG.	30	0.50	60	(2) PER TREE / PALM
	RAINBIRD 1812-SAM-PRS SERIES WITH HE-VAN-14 NOZZLE ADJUSTABLE ARC 45 DEG. TO 270 DEG.	12" POP-UP FOR SHRUBS	K-FLEX SWING JOINT	14 FT.	90 DEGREE	30	.93		
				14 FT.	180 DEGREE	30	1.85		
				14 FT.	270 DEGREE	30	2.78		
				14 FT.	360 DEGREE	30	3.70		
	IRRITROL SERIES 200B MASTER CONTROL VALVE WITH LATCHING SOLENOID; SIZE AS NOTED ON PLAN								VALVE SHALL FUNCTION AS MAIN SHUT-OFF OR ISOLATION FOR SYSTEM EXPANSION OR SHUT-DOWN
	IRRITROL SERIES ZONE CONTROL VALVE WITH LATCHING DC SOLENOID AND PRESSURE REGULATION; SIZE AS NOTED ON PLAN	AUTO CONTROL VALVE							INSTALLED IN METER SIZE VALVE BOX WITH LID; BROOKS, AMETEK OR APPROVED EQUAL; INSTALL VALVES WITH APPROVED WATER PROOF WIRE CONNECTORS AND CONTROL WIRE MINIMUM SIZE #14 AWG HOT AND #12 COMMON, TYPE 'UF' IN GREY PVC CONDUIT FROM VALVES TO CONTROLLER IN MAIN LINE IRRIGATION TRENCH; COMMON WIRE TO BE WHITE
	12-STATION DC SOLAR MOTOROLA IRRINET-M MODEL #IMDC-12-RX-S18P-AHT-SA-X IRRIGATION CONTROLLER ASSEMBLY WITH UHF HT750 EXTERNAL RADIO KIT; INSTALL UNIT WITH STRONGBOX MODEL SB18SS STAINLESS STEEL ENCLOSURE WITH PEDESTAL ASSEMBLY SHALL INCLUDE LOW-PROFILE YAGI ANTENNA, 12 STATION TERMINAL SET, SOLAR PANEL HARDWARE AND CHARGE REGULATOR MANUFACTURED BY NORTHERN TECHNOLOGIES WITH 11V. SURGE PROTECTOR, GFI OUTLET/POWERSWITCH, 12 RELAYS AND #2-8/2 INPUT VALVE SWITCHBOARDS. FURNISH MOUNTING POLE TO MOUNT SOLAR PANEL, BATTERY AND GROUNDING ROD. GROUND TO UNIT TO 10 MEGS. PROVIDE WITH FULLY ASSEMBLED, HOT-TESTED (IN SHOP), RADIO PROGRAMMING AND OPTIMIZATION. SOURCE: CENTRAL CONTROL SYSTEMS, LTD., P.O. BOX 8683, WOODLAND, CALIFORNIA 95776 PHONE: 530-662-6841	PEDESTAL MOUNT	12-STATION						PEDESTAL MOUNT IRRIGATION CONTROLLER INSTALLED AT LOCATION SHOWN AND AS SHOWN IN DETAILS; INSTALL WITH INTEGRATED RAIN SENSOR/SHUT-OFF SYSTEM IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS; CONFIRM FINAL LOCATION OF PEDESTAL AND ALL OTHER EQUIPMENT WITH CITY OF TAMPA PARKS DEPARTMENT PRIOR TO CONSTRUCTION. NOTE: ALL LINE VOLTAGE POWER INSTALLATION WORK SHALL BE PERFORMED BY A QUALIFIED LICENSED ELECTRICIAN
	14-2 LOW-VOLTAGE FLOW METER AND VALVE CONTROL WIRE WITH LOW-VOLTAGE COMMON WIRE IN GREY PVC CONDUIT TO ALL VALVES AND CONTROLLER								COMMON WIRE: SIZE AWG #14 OR LARGER AND WHITE IN COLOR HOT WIRES: SIZE AWG #16 OR LARGER AND RED COLOR SPARE WIRES: SIZE AWG #16 OR LARGER AND IN BLUE COLOR
	SLEEVE PIPE: 4" SCHEDULE 40 PVC AS SPECIFICALLY NOTED ON PLAN								INSTALL MINIMUM 24" BELOW PAVEMENT FINISH SURFACES AND MINIMUM OF 18" IN LANDSCAPE AREAS; EXTEND SLEEVE 12" BEYOND PAVEMENTS
	DIRECTIONAL BORE SLEEVE PIPE								INSTALL MINIMUM 24" BELOW PAVEMENT FINISH SURFACES AND EXTEND SLEEVE 12" BEYOND PAVEMENTS; SIZE SHALL BE (2) DIAMETERS LARGER THAN LATERAL OR MAIN PIPE INSIDE TO ALLOW FOR IRRIGATION PIPING AND COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL OR AS SPECIFICALLY NOTED OTHERWISE
	IRRIGATION MAIN LINE PRESSURE PIPE WITH HDPE PIPE; SOLVENT WELD FITTINGS & JOINTS; SCHEDULE 40 PVC; 1 1/4" MAIN								INSTALL ALL CONTROL WIRE/CONDUIT IN SAME TRENCH WITH THE MAIN IRRIGATION LINE EXCEPT FOR ROADWAY CROSSINGS WHERE CONTROL WIRES SHALL BE INSTALLED INSIDE A SEPARATE DIRECT BORED HDPE SLEEVE PIPE
	IRRIGATION LATERAL PIPE WITH SOLVENT WELD FITTINGS & JOINTS; PVC 40 PVC								
	1" IRRIGATION WATER METER INSTALLED IN ACCORDANCE WITH LOCAL CODES								FURNISH & INSTALL 1 1/2" DOUBLE CHECK VALVE BACKFLOW PREVENTOR INSIDE CONCRETE PAD IN ACCORDANCE WITH LOCAL CODES
	1 1/4" RAINBIRD PVB BACKFLOW PREVENTOR INSTALLED ON 1 1/4" GALVANIZED STEEL RISER ASSEMBLY ON 4" THICK X 24" X 48" CONCRETE SLAB; SET PVB 24" ABOVE SLAB	RAINBIRD OR WATTS							ONLY LATERALS WITH PIPE SIZES OF 3/4" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHER BEING 1" OR GREATER SIZE.
	3/4" BRASS HOSE BIB & BRASS QUICK-COUPLING VALVE IN METER SIZE PLASTIC VALVE BOX WITH LID; RAINBIRD OR EQUIVALENT APPROVED								INSTALL WITH SCHEDULE 40 GALV. STEEL SWING JOINT ASSEMBLY AND MIN. 1 CUBIC FEET OF CONCRETE PLACED AROUND SWING-JOINT TO STABILIZE THE QUICK-COUPLER

NOTE: QUANTITIES EITHER GIVEN OR NOT GIVEN SHALL BE VERIFIED AND DETERMINED BY THE CONTRACTOR PRIOR TO BID

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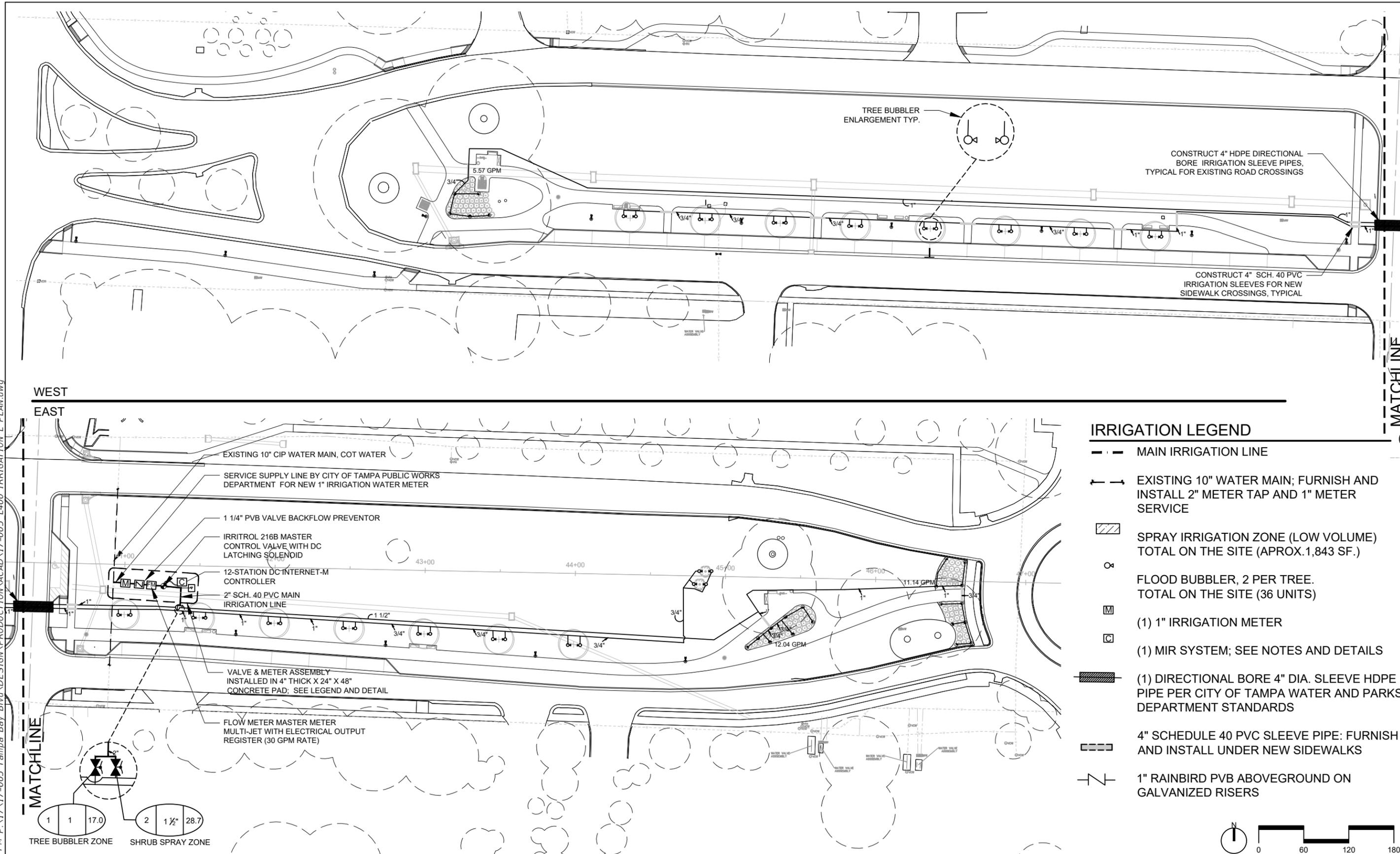
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TAMPA BAY BLVD LINEAR PARK
 IRRIGATION NOTES AND SCHEDULE

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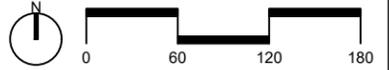
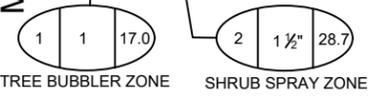


WEST
EAST

MATCHLINE

IRRIGATION LEGEND

- MAIN IRRIGATION LINE
- EXISTING 10" WATER MAIN; FURNISH AND INSTALL 2" METER TAP AND 1" METER SERVICE
- SPRAY IRRIGATION ZONE (LOW VOLUME) TOTAL ON THE SITE (APROX.1,843 SF.)
- FLOOD BUBBLER, 2 PER TREE. TOTAL ON THE SITE (36 UNITS)
- (1) 1" IRRIGATION METER
- (1) MIR SYSTEM; SEE NOTES AND DETAILS
- (1) DIRECTIONAL BORE 4" DIA. SLEEVE HDPE PIPE PER CITY OF TAMPA WATER AND PARKS DEPARTMENT STANDARDS
- 4" SCHEDULE 40 PVC SLEEVE PIPE: FURNISH AND INSTALL UNDER NEW SIDEWALKS
- 1" RAINBIRD PVB ABOVEGROUND ON GALVANIZED RISERS



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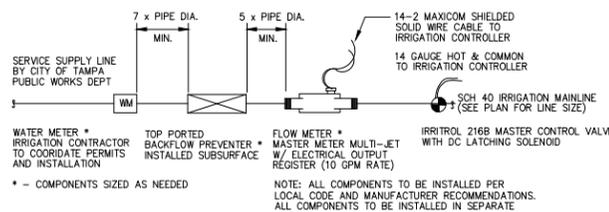
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IRRIGATION PLAN

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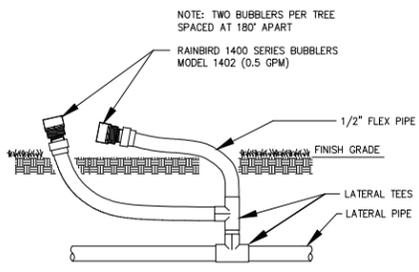
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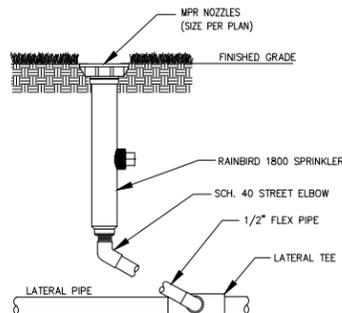
METER ASSEMBLY SCHEMATIC

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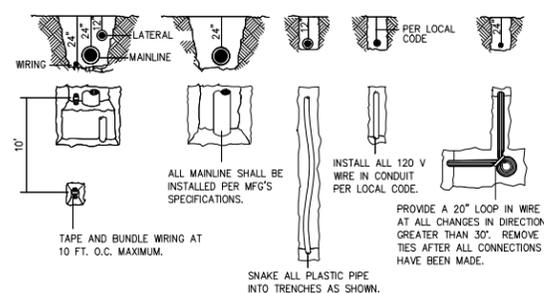
RAINBIRD 1400 SERIES BUBBLER

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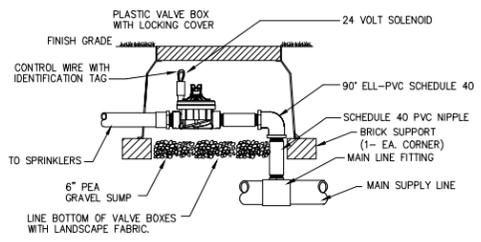
POP-UP SPRAY HEAD

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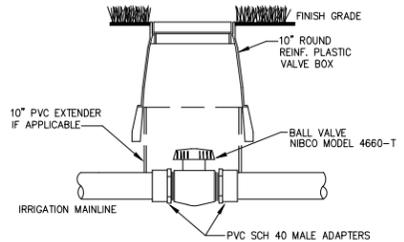
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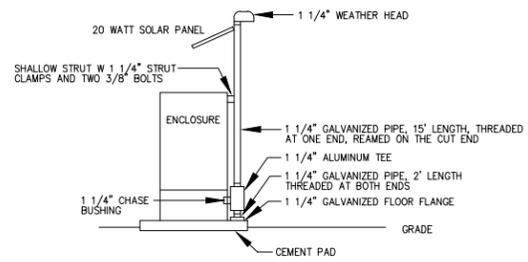
IRRITROL 200B SERIES CONTROL VALVE

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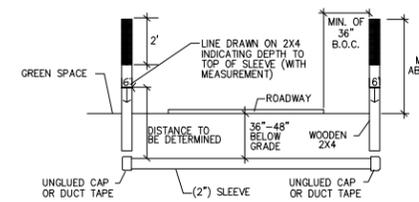
ISOLATION BALL VALVE

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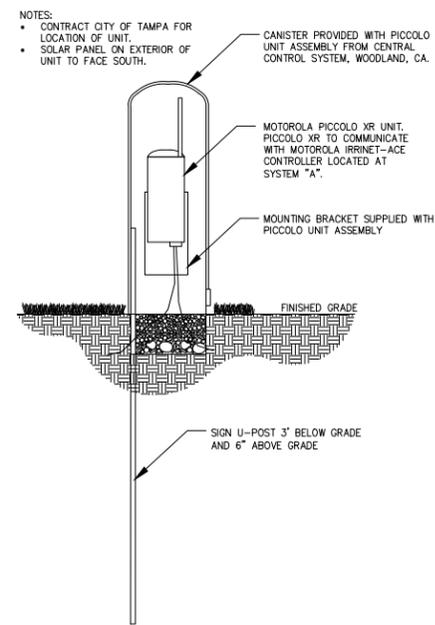
SOLAR PANEL DETAIL FOR CONTROLLER

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SLEEVE DETAIL

NTS



MOTOROLA PICCOLO XR UNIT

NTS

- CONTROLLER SHALL BE (AS NOTED IN DETAIL E ON THIS SHEET) A 12 STATION MOTOROLA DC IRRINET CONTROLLER ASSEMBLY WITH UHF HT750 EXTERNAL RADIO KIT (MODEL # IMDC-12-RX-S18P-AHT-SA-X). UNIT SHALL BE MOUNTED IN A STRONGBOX SB-18SS STAINLESS STEEL ENCLOSURE WITH PEDESTAL. ASSEMBLY SHALL INCLUDE UHF DOME ANTENNA KIT AND 12 STATION TERMINAL SET, SOLAREX MULTIMOUNT MODULE AND HARDWARE, CHANGE REGULATOR, STORAGE BATTERY, AND MAST AND WEATHERHEAD/HARDWARE FOR SOLAR PANEL INSTALLATION. INSTALLATION SHALL INCLUDE ASSEMBLY, HOT TEST (IN SHOP), RADIO PROGRAMMING AND OPTIMIZATION.
- DC UNITS REQUIRE A VALVE COMMON FOR EVERY 6 VALVES.
- CONTACT CENTRAL CONTROL SYSTEMS, LTD - MARJIE GIEBEL
P.O. BOX 8683 WOODLAND, CA 95776-8683
PH 530-662-8841
FAX 530-662-3776
E-MAIL: CCS@CENTRALSYSTEMS.COM FOR PURCHASE INFORMATION.
- CONTROLLER TO BE LOCATED NEAR EXISTING WATER METER. CONFIRM WITH PARKS AND RECREATION IRRIGATION SUPERVISOR PRIOR TO INSTALLATION.
- ALL WIRES NOT UNDER MAINLINE TO BE IN CONDUIT AND LOOSE.
- WIRES BURIED UNDER MAINLINE ARE TO BE BUNDLED AND TAPED AT 20 FOOT INTERVALS.
- DC CONTROLLER SHALL HAVE 6 WIRES AND 1 COMMON FOR EVERY 6 ZONES AND GROUNDED WITH GROUND RODS TO 10 MEGS.

DAVID CONNER + ASSOCIATES
100 East Madison Street Suite #200 Tampa, FL 33602
813.258.1997 | dconnerassociates.com | LC0000319
Planning+LandscapeArchitecture+Design

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100% CONSTRUCTION DOCUMENTS
AUGUST, 2018
DEPARTMENT OF ECONOMIC & URBAN DEVELOPMENT

TAMPA BAY BLVD LINEAR PARK
IRRIGATION DETAILS

Field Book:	
Atlas Sheet:	
File No.	Index No.
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Scale:	
SHEET	

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