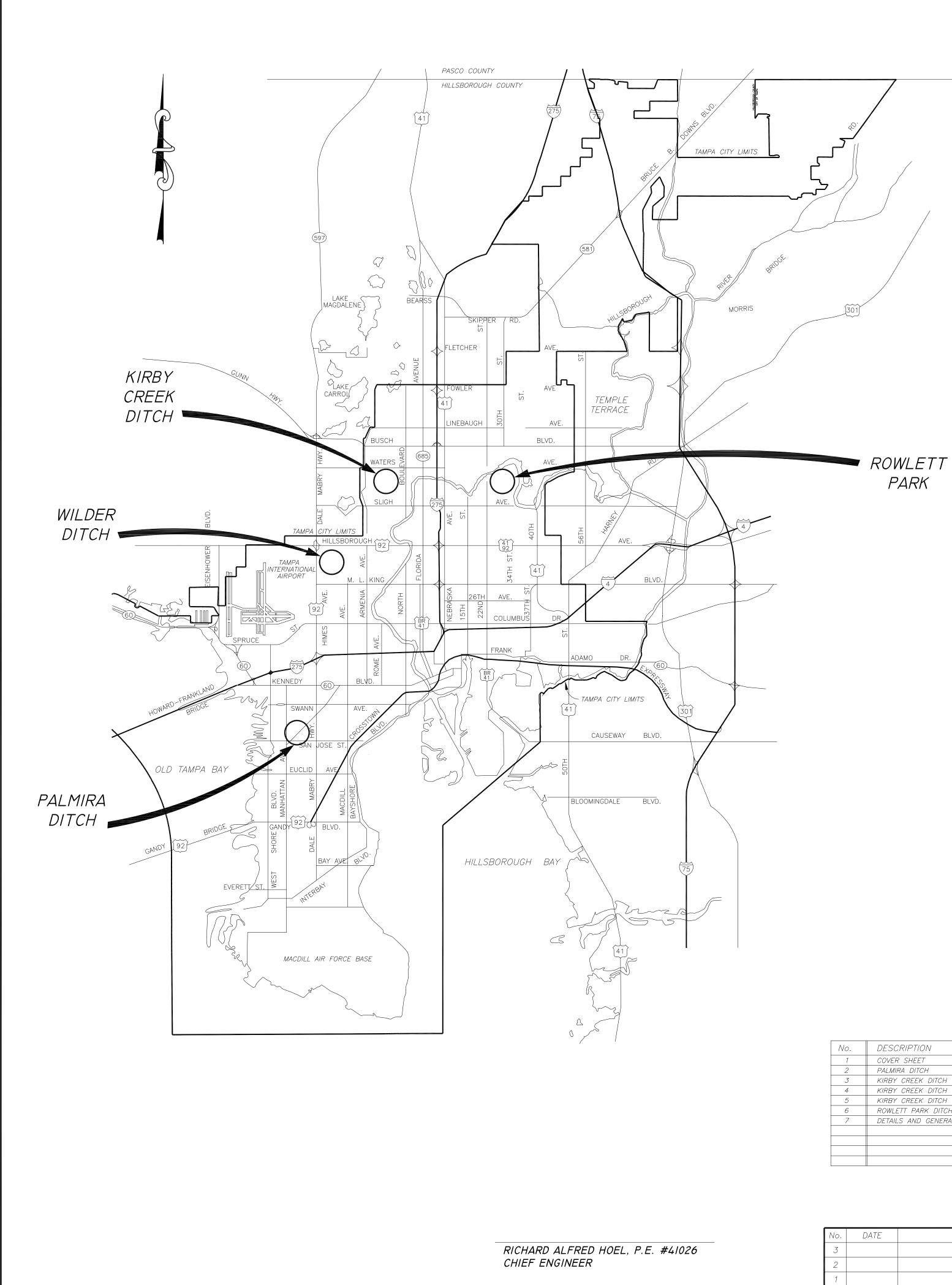
The Enclosed Document Is Provided For Your Convenience.

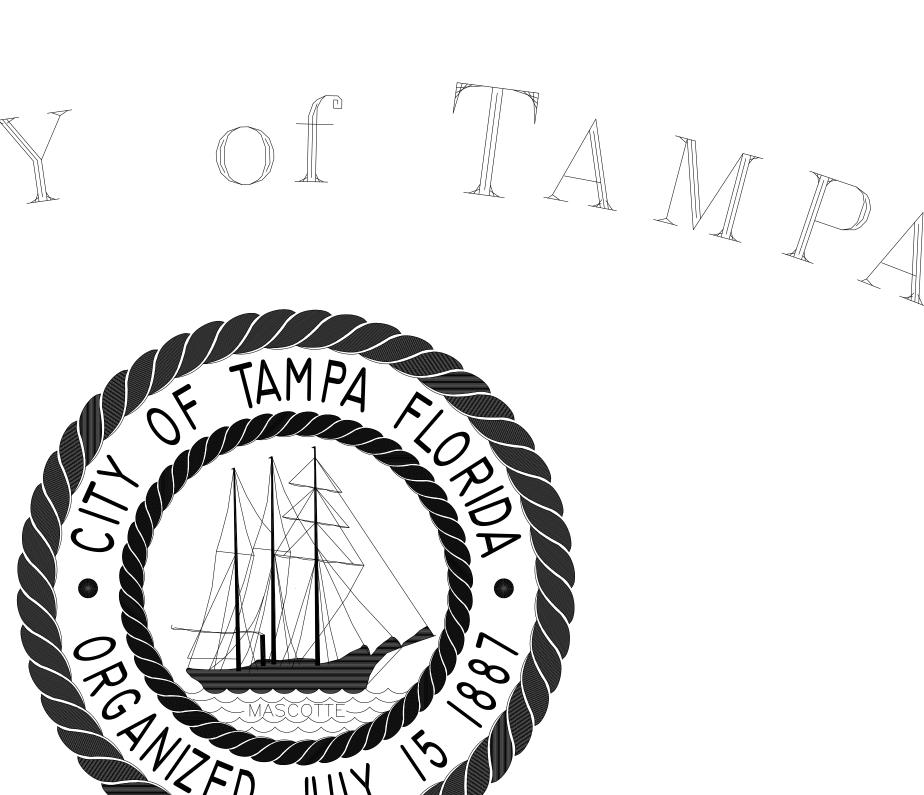
Please Email ALL Questions: <u>MailTo:ContractAdministration@TampaGov.net</u>

Please Let Us Know If You Plan To Bid

City of Tampa Contract Administration Department 306 E. Jackson St. #280A4N Tampa, FL 33602 (813)274-8456







Department of TRANSPORTATION AND STORMWATER SERVICES STORMWATER ENGINEERING DIVISION

INDEX

No.	DESCRIPTION
1	COVER SHEET
2	PALMIRA DITCH
3	KIRBY CREEK DITCH @ ALBANY AVE & SITKA ST
4	KIRBY CREEK DITCH @ ORLEANS AVE
5	KIRBY CREEK DITCH @ NEWPORT AVE
6	ROWLETT PARK DITCH & WILDER DITCH NOTES
7	DETAILS AND GENERAL NOTES

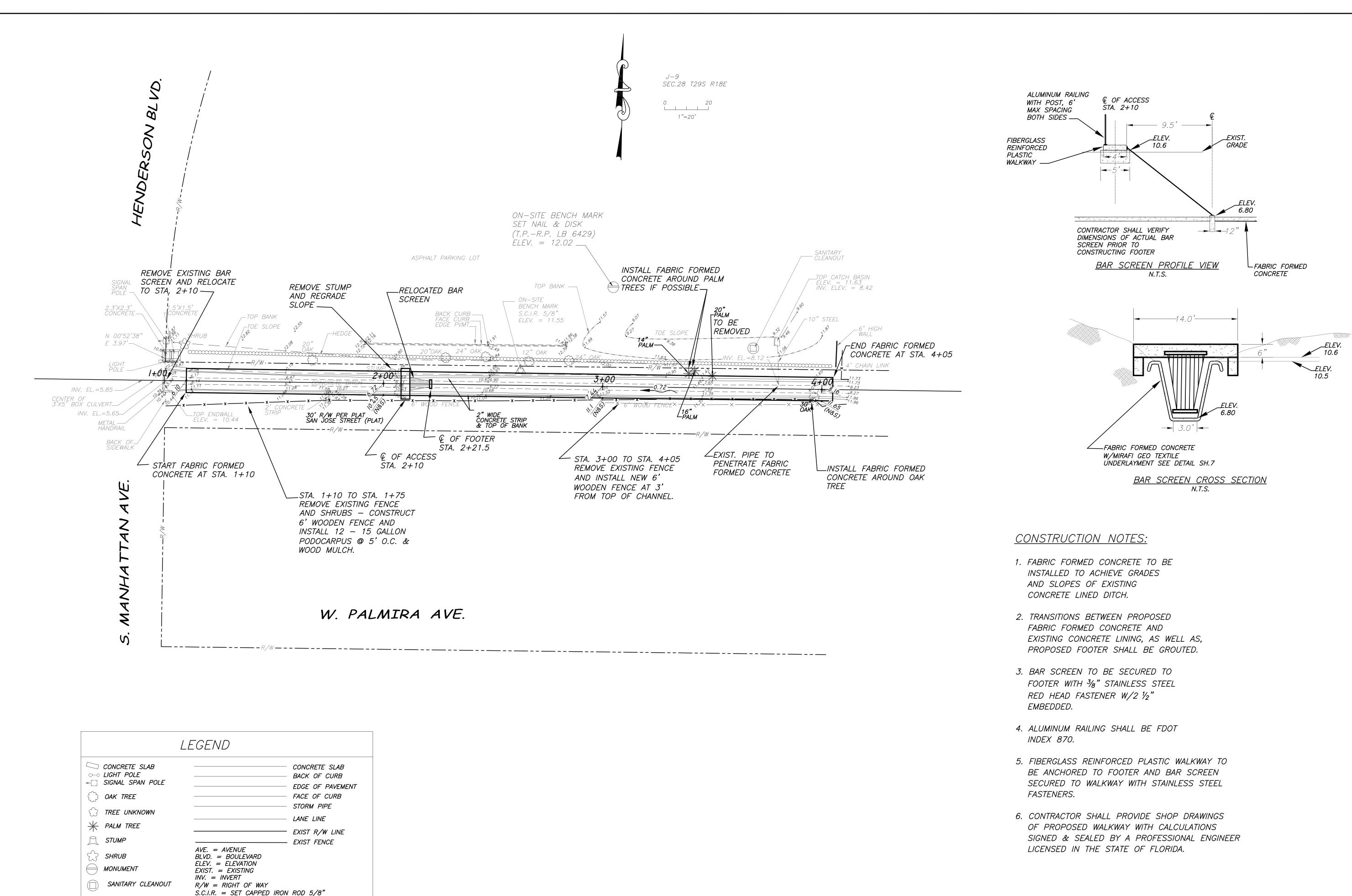
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PLANS FOR

DITCH STABILIZATION PROJECT

CONTRACT NO. *16-C-00029*

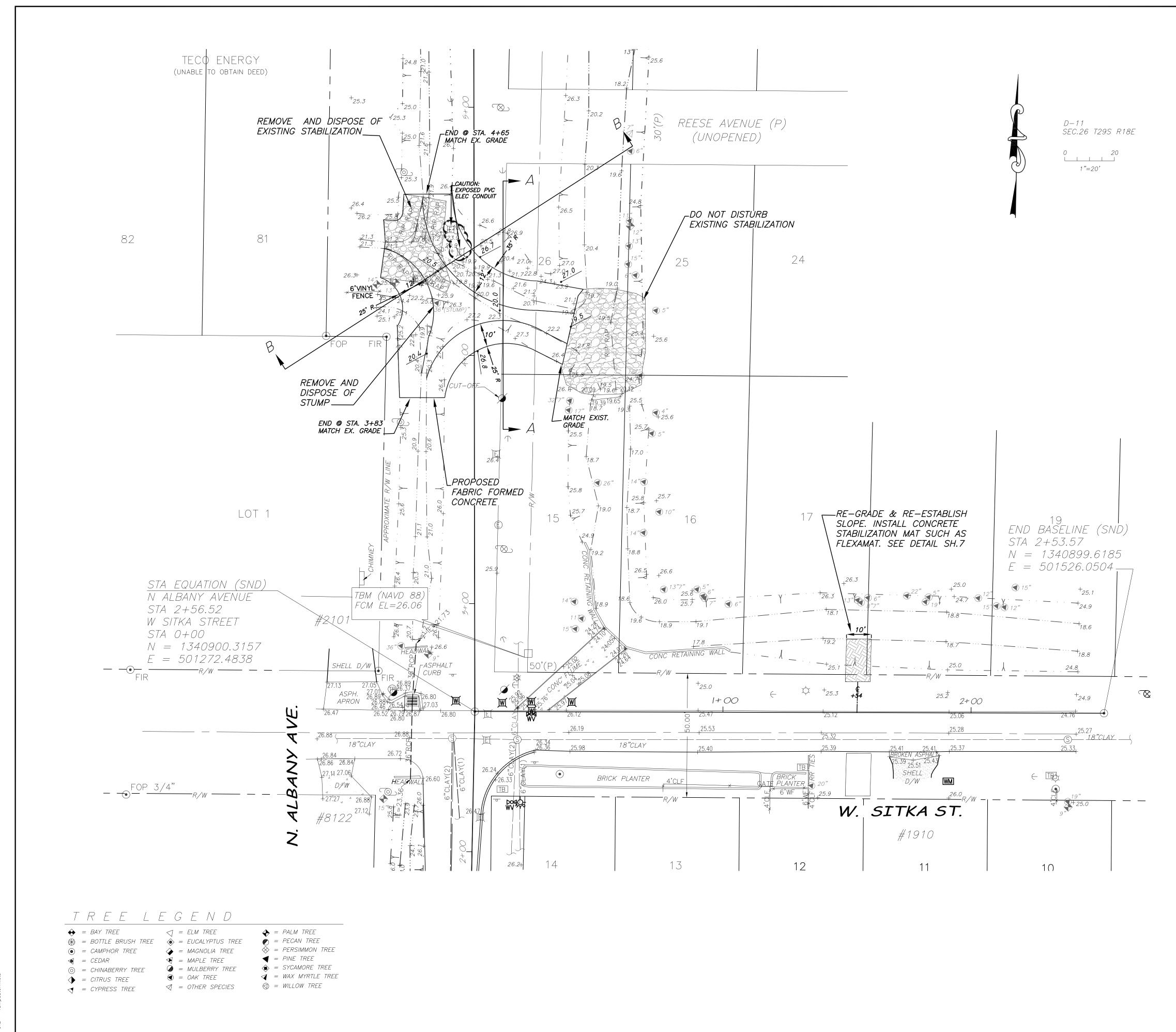
COVER SHEET



SPOT GRADE

T.P.-R.P. LB 6429 T.P.-R.P. = TRAVERSE POINT - REFERENCE POINT

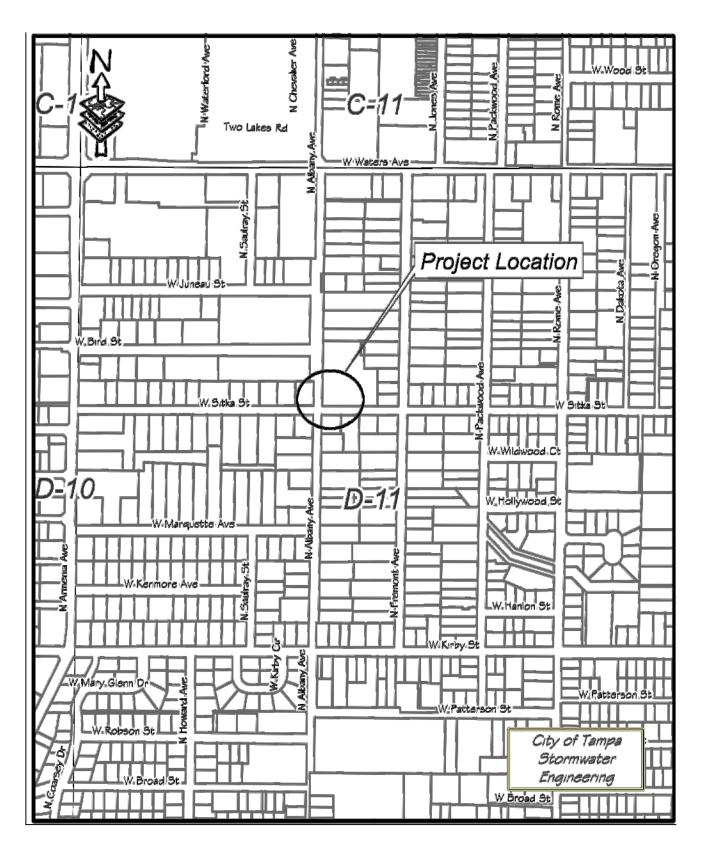
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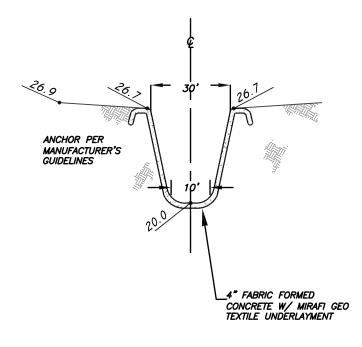


rr: ss17 Drawing Name: K:\Stormwater Drafting\Active Projects\MTM\Ditch Stabilization Project\Kirby Creek @Alba. wurt- Jul 29. 2016 – 3:12nm CTB – TampaStorm.ctb

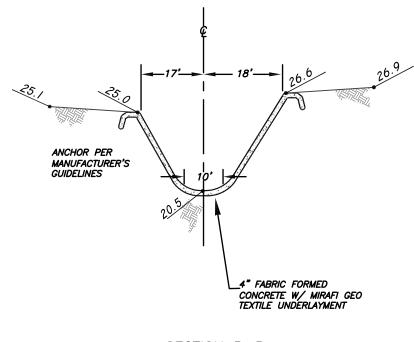
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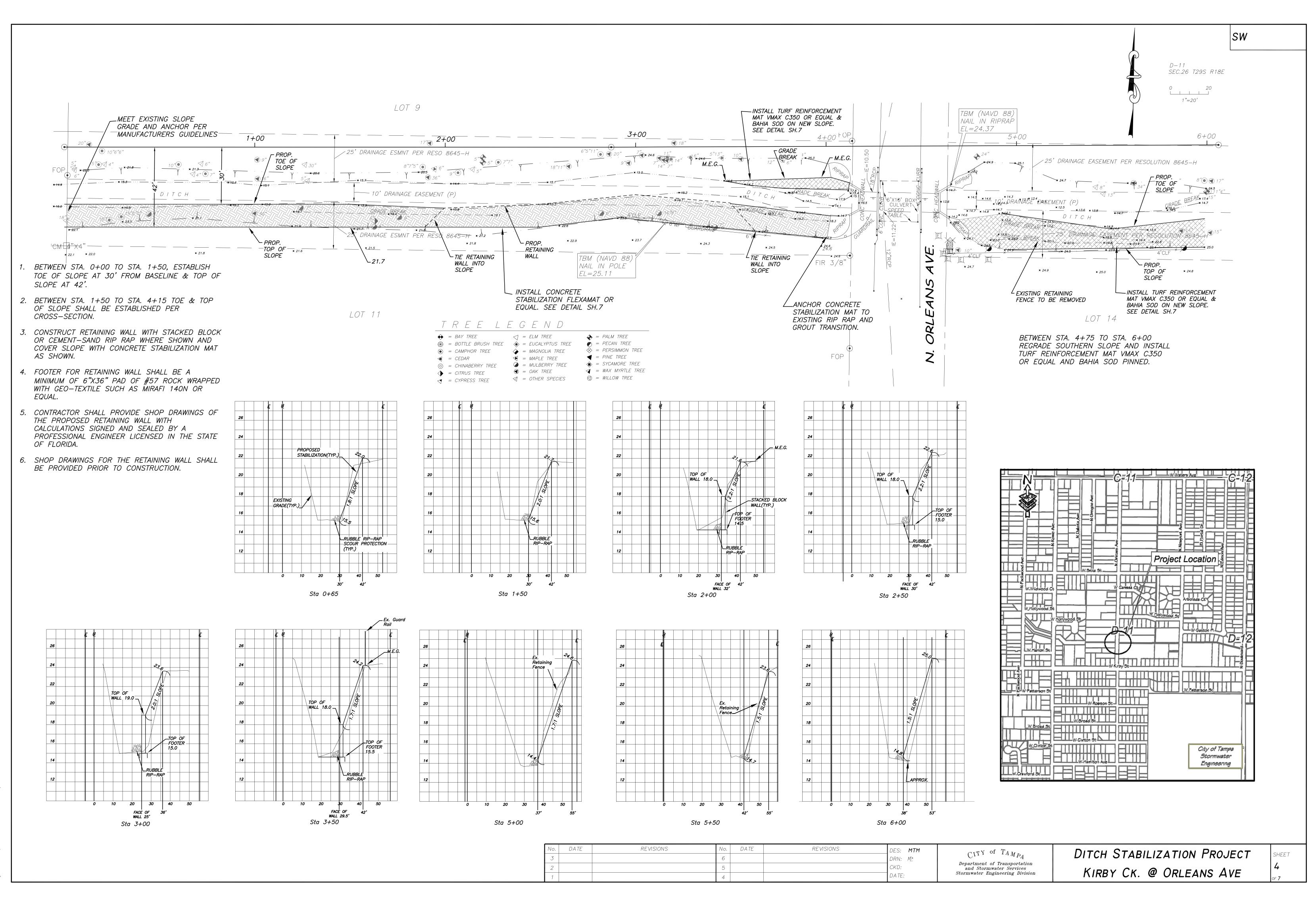
SW

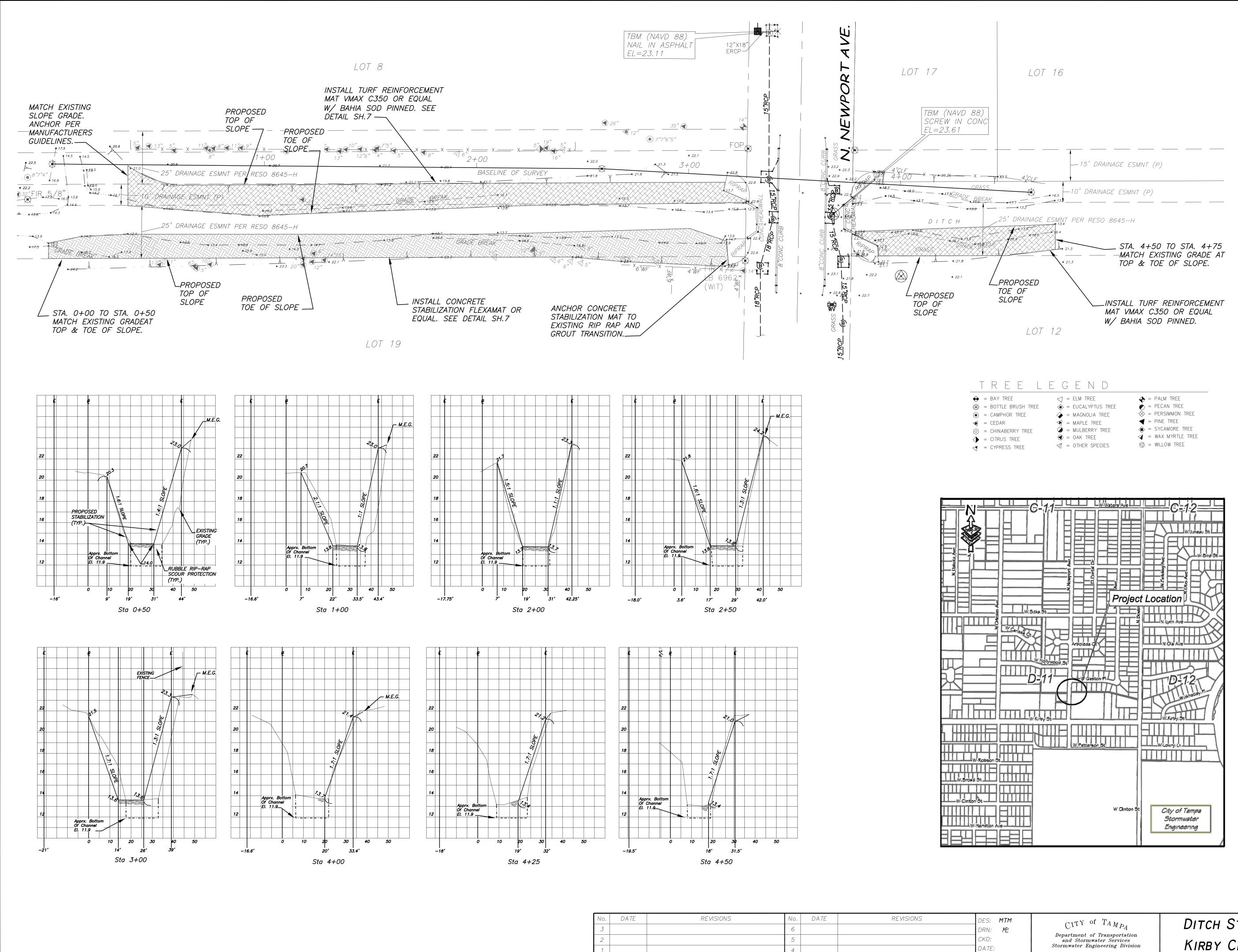




<u>SECTION A–A</u> N.T.S.







SW

D–11 SEC.26 T29S R18E

0 20 1"=20'

ROWLETT PARK DR. DITCH BETWEEN SLIGH AVE. & HILLSBOROUGH RIVER (SEE DETAIL SH.7)

Background

Many years ago much of this ditch was lined with fabric formed concrete. In recent years the CSX railroad has not maintained the ditch running along the east side of their tracks and as a result runoff accumulates in the ditch. During major storm events this water overflows out of the CSX ditch into the City's ditch. This overflow has found its way under the fabric formed concrete, eroding under the formed concrete approximately 350 feet north to the river, until it meets an intersecting lined ditch. At this point it has burst through the formed concrete, leaving a trail of broken and displaced formed concrete in its wake.





Overflow Caused Erosion Under the Concrete Mat

Flow Under Mat Moved from West to East



Flow Under Mat Displaced and Broke Mat



Flow Under Mat Displaced and Broke Mat

Project Description

This project will replace the damaged fabric formed concrete with new formed concrete such as Hydrotex Filter Point FP400. The existing formed concrete will be removed and disposed of off-site. No topographic survey has been conducted and the original construction plans are not available in the city archives. The ditch bank and bottom will be filled and graded to provide a continuous grade between the limits of the work. Side slopes will be a maximum of 1:1 and the bottom width shall be comparable to existing ditch width downstream (approximately 9 feet wide). At the location where the CSX ditch overflows into the City ditch, a new swale will be constructed to intersect with the City ditch and lined with fabric formed concrete. All fabric formed concrete will be placed atop of a filter fabric such as Mirafi 170N nonwoven geotextile and installed per manufacturer's guidelines. Contractor will notify CSX of work schedule and all work will be performed outside the CSX right of way. All disturbed area not covered with the concrete mat shall be sodded with Bahia grass.



Rowlett Park Drive Ditch

WILDER DITCH BETWEEN N. LINCOLN AVE. & N. ST. VINCENT AVE (SEE DETAIL SH.7)

Background

This project was brought to the City's attention during an inspection in December 2015, when erosion was discovered at the southern terminus of N. Lincoln Ave. and N. Saint Vincent Ave. at the Wilder Ditch. The erosion at these locations is due to uncontrolled runoff from the roadway over the northern ditch bank.



Figure 1 Wilder Ditch Location



Terminus at N. Lincoln Ave.



Terminus at N. Saint Vincent Ave.

At the Lincoln Ave location there is evidence of a cellular confinement erosion control system installed years ago which has been compromised and exposed. Subsequent maintenance work at this location was limited to randomly placing rubble rip-rap. The terminus of N. Saint Vincent is subject to the same type of erosion, but this location has no evidence of erosion control. Presently the erosion at this location is isolated to the west side of the roadway and appears to be held in check so far by the tree roots.

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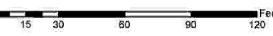


Figure 2 - Wilder Ditch at N. Lincoln Ave.

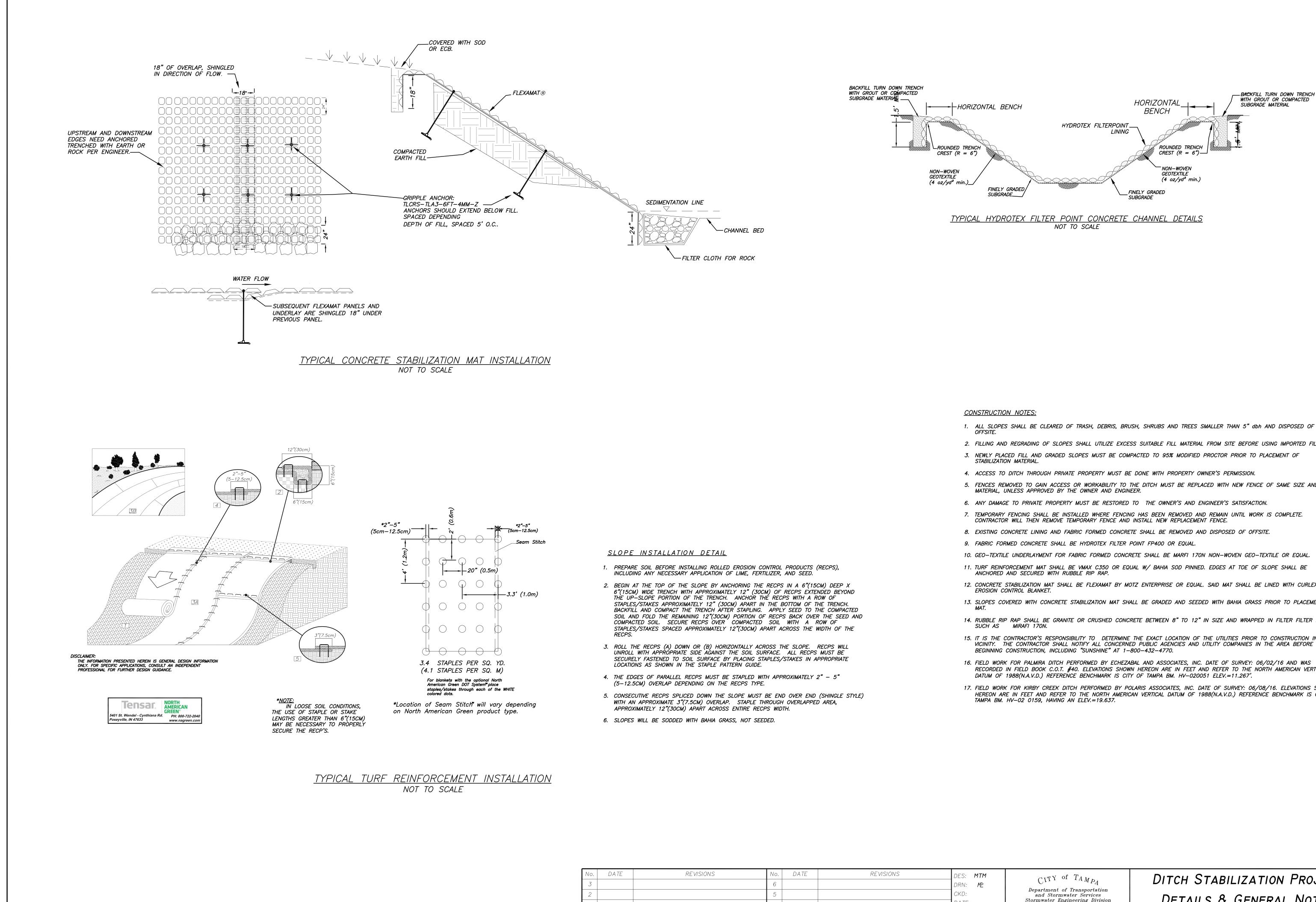


o 15 30 60 90 Feet Figure 3 - Wilder Ditch at N. Saint Vincent Ave.

Project Description

This project will address the existing condition of the northern ditch bank at the terminus of both streets: N. Lincoln Ave. and N. Saint Vincent Ave. The scope of the project will include removal of existing rubble rip-rap and cellular confinement erosion system at Lincoln Ave. and installing a concrete flume from the edge of pavement to the bottom of the ditch as shown on Figure 2. At the terminus of Saint Vincent Ave. a concrete flume will be constructed as shown on Figure 3. Proposed flume shall conform to FDOT Index 283 and 8" - 12" sized rubble rip-rap shall be installed in the ditch bottom at the flume outfall. Disturbed areas at both locations will be filled with soil, graded to restore the slope, covered with a turf mat such as VMax C350 by Tensar, and sodded with Bahia sod. Contractor shall remove all debris from the site, except the rubble rip-rap which may be used at the base of the flume in the ditch to minimize scour. Proposed system to stabilize the ditch bank shall minimize impact to existing trees and shrubs on the bank and shall not alter the flow capacity of the ditch. Work shall be conducted within the limits of existing easement and right of way, unless adjacent property owners grant temporary access to the contractor.

$CITY of T_{AMP_{4}}$ DITCH STABILIZATION PL	ROJECI
Department of Transportation and Stormwater Services Stormwater Engineering Division ROWLETT PARK & WILDE	R DITCH



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- 2. FILLING AND REGRADING OF SLOPES SHALL UTILIZE EXCESS SUITABLE FILL MATERIAL FROM SITE BEFORE USING IMPORTED FILL.

- 5. FENCES REMOVED TO GAIN ACCESS OR WORKABILITY TO THE DITCH MUST BE REPLACED WITH NEW FENCE OF SAME SIZE AND

- 12. CONCRETE STABILIZATION MAT SHALL BE FLEXAMAT BY MOTZ ENTERPRISE OR EQUAL. SAID MAT SHALL BE LINED WITH CURLEX II
- 13. SLOPES COVERED WITH CONCRETE STABILIZATION MAT SHALL BE GRADED AND SEEDED WITH BAHIA GRASS PRIOR TO PLACEMENT OF
- 14. RUBBLE RIP RAP SHALL BE GRANITE OR CRUSHED CONCRETE BETWEEN 8" TO 12" IN SIZE AND WRAPPED IN FILTER FILTER FABRIC
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY. THE CONTRACTOR SHALL NOTIFY ALL CONCERNED PUBLIC AGENCIES AND UTILITY COMPANIES IN THE AREA BEFORE
- RECORDED IN FIELD BOOK C.O.T. #40. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL
- 17. FIELD WORK FOR KIRBY CREEK DITCH PERFORMED BY POLARIS ASSOCIATES, INC. DATE OF SURVEY: 06/08/16. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(N.A.V.D.) REFERENCE BENCHMARK IS CITY OF

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, _	Department of Transportation and Stormwater Services Stormwater Engineering Division