

CITY OF TAMPA STANDARD SITE NOTES

TRANSPORTATION

1. ALL ABANDONED DRIVEWAYS SHALL BE REMOVED AND CURBS RAISED TO CITY OF TAMPA STANDARDS AND SPECIFICATIONS.
2. ANY DRIVEWAYS SHALL BE RESTORED TO CITY OF TAMPA STANDARD AND SPECIFICATIONS.
3. ANY DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED TO CITY OF TAMPA STANDARDS AND SPECIFICATIONS.
4. CURB RAMPS SHALL BE PROVIDED WHERE THE PUBLIC SIDEWALK MEETS ALL DRIVEWAYS PER THE FLORIDA ACCESSIBILITY CODE STANDARDS AND SPECIFICATIONS.
5. ALL SIGNAGE AND STRIPING TO COMPLY WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
6. THE SLOPE OF THE H.C. PARKING SPACE & LOADING AISLE WILL NOT EXCEED 2% IN ALL DIRECTIONS.

LANDSCAPING

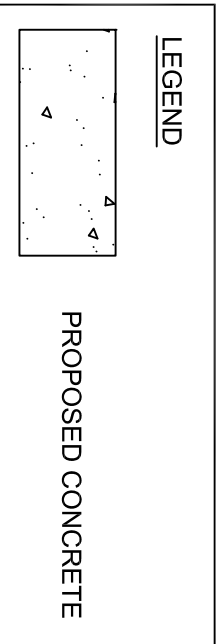
1. PERMANENT AUTOMATIC IRRIGATION SYSTEM SHALL BE PROVIDED WITH A RAIN SENSOR, TO PROVIDE 50% ALL NEW LANDSCAPING.
2. NO UNDERGROUND UTILITIES INCLUDING IRRIGATION SHALL BE CONSTRUCTED WITHIN THE 10-FOOT PROTECTIVE RADIUS OF EXISTING TREES OR WITHIN THE 20-FOOT PROTECTIVE RADIUS OF GRASS TREES.
3. ALL SHADE TREES AND SHRUBS SHALL BE FLORIDA GRADE #1 WITH SPECIFICATIONS AS FOLLOWS:
 - A. TREE: 2" CALIPER MINIMUM, 8'-10" MIN. HEIGHT, 5'-6" MIN. SPREAD, 30 GALLON CONTAINER
 - B. SHRUBS: TO BE PLANTED 3' ON CENTER, 24" MIN. HEIGHT, 24" SPREAD, 3 GALLON CONTAINER
4. SITE AND LANDSCAPE PLANS WILL BE REVIEWED AND APPROVED BY PARKS AND RECREATION DEPARTMENT LANDSCAPE RESOURCES SECTION PRIOR TO PERMIT ISSUANCE.
5. THE RIGHT OF WAY BOUNDARY CHANGES IS SIGNIFICANT, A TREE WELLER TRAINING WALL IS REQUIRED WITHIN THE RIGHT OF WAY.
6. ALL INVASIVE SPECIES MUST BE REMOVED.
7. ONLY HAND EXCAVATION WILL BE ALLOWED OUTSIDE THE DRP LINE.
8. THERE WILL BE NO SEVERING OF ROOTS OVER 2" IN DIAMETER.
9. THERE WILL BE NO CONSTRUCTION STAGING THAT WILL IMPACT EXISTING TREES.

STORMWATER

1. EROSION/SEDIMENTATION CONTROL: CONSTRUCTION CONTROL, SEDIMENTATION BARRIER, RAY BALES OR SITUATION CURTAIN TO PREVENT SILTATION OF ADJACENT PROPERTY STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
2. RIGHT-OF-WAY PERMIT REQUIRED PRIOR TO INITIATING CONSTRUCTION WITHIN CITY RIGHT-OF-WAY.

FIRE MARSHALL NOTES

- BUILDING IS TYPE IIB CONSTRUCTION, UNSPRINKLED AND WITHOUT AN ALARM SYSTEM
- BUSINESS OCCUPANCY
- BUILDING MEETS THE REQUIREMENTS OF TABLES 503, 601 AND 602 OF THE 2007 FBC AND 2009 SUPPLEMENTS
- BUILDING MEETS THE REQUIREMENTS OF NFPA AND FLORIDA FIRE PREVENTION CODE
- FIRE HYDRANT LOCATED DIRECTLY IN FRONT OF THE PROPOSED BUILDING
- AND IS LESS THAN 300' FROM ALL SIDES OF NEW BUILDING



SITE DATA	EXISTING	PROPOSED	TOTAL
TOTAL AREA	872,106 SF (20.02 AC)		872,106 SF (100%)
BUILDING AREA	145,911 SF	3,000 SF	148,911 SF (17.07%)
PERVIOUS AREA	489,300 SF	0 SF	489,300 SF (56.10%)
PAVEMENT AREA	107,875 SF	6,235 SF	114,110 SF (13.08%)
ZONING	HI		HI
LAND USE	WAREHOUSE		WAREHOUSE
WATER	CITY OF TAMPA		CITY OF TAMPA
SEWER	FRONT: 10' SIDE: 0' REAR: 0'		
SETBACKS	148,911 SF / 872,106 SF = 0.1707		
FAR			
DATUM	1988 NAVD		
FIRM CERTIFICATION	PARCEL IS WITHIN FLOOD ZONE 'C'-PER FEMA PANEL 1201140003C. EFFECTIVE DATE: 09/30/82		

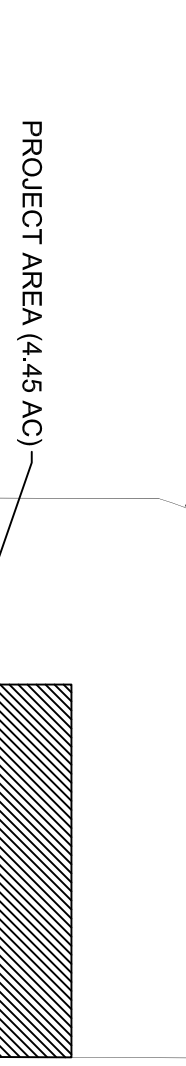
LEGAL DESCRIPTION

LOT 10 AND 11, TAMPA INDUSTRIAL PARK AS RECORDED IN PLAT BOOK 34 AT PAGES 79-81 OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.

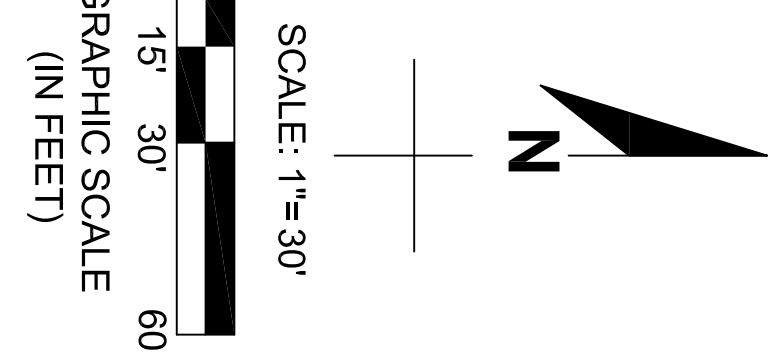
BUILDING NOTES:

1. CONSTRUCTION TYPE: TYPE IIB
2. BUILDING IS UNSPRINKLED
3. ALL CONSTRUCTION WILL COMPLY WITH THE 2007 FLORIDA FIRE PREVENTION CODE AND THE 2007 FLORIDA BUILDING CODE.

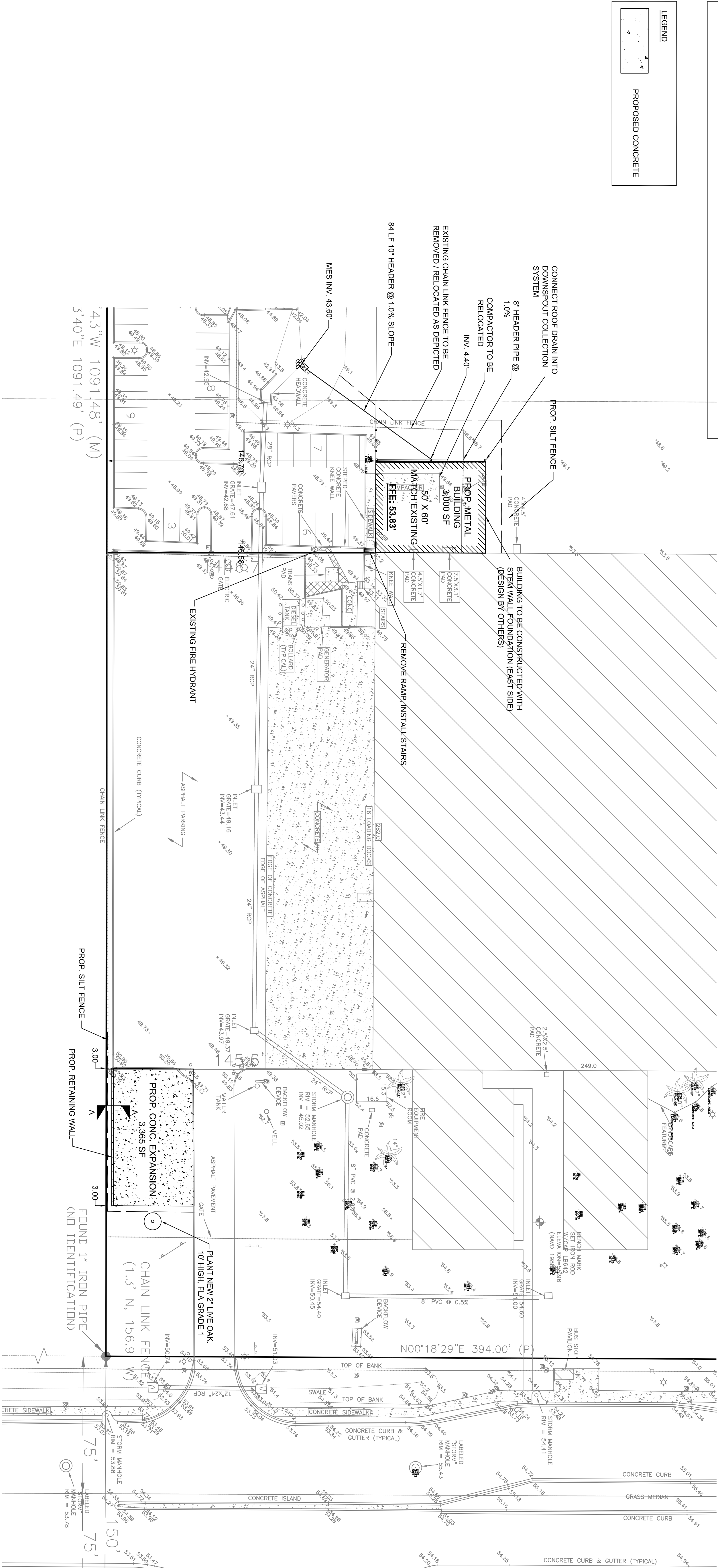
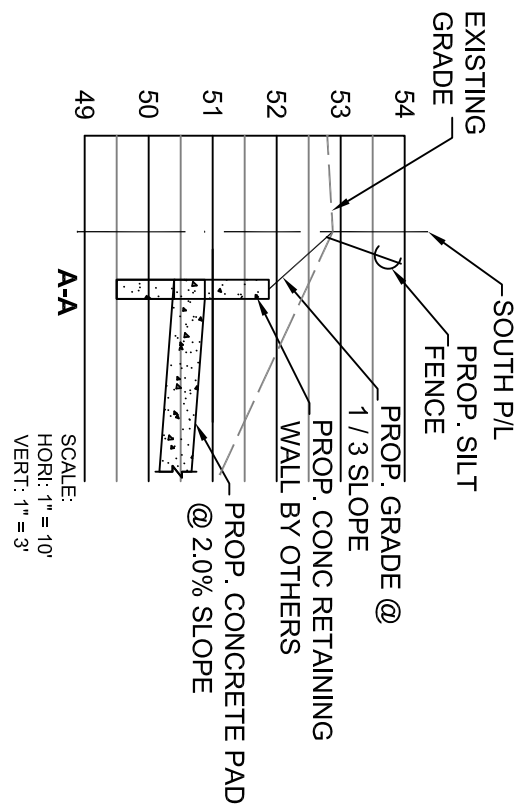
TOTAL SITE AREA (20.02 AC)



PROJECT AREA (4.45 AC)



PARKING CALCULATIONS
 PER CITY OF TAMPA CODE FOR WAREHOUSE PARKING (0.8 SPACE PER EMPLOYEE PER SHIFT)
 EXISTING BUILDING REQUIREMENTS
 WAREHOUSE
 (80 EMPLOYEE AVERAGE) * 0.8 = 48 ROD
 PROPOSED BUILDING REQUIREMENTS
 WAREHOUSE
 (20 EMPLOYEE AVERAGE) * 0.8 = 12 ROD
 TOTAL SPACES:
 120 EXISTING - 60 REQUIRED = 60 ADDITIONAL SPACES AVAIL.



TAMPA CIVIL DESIGN

PO BOX NO. 1787
 LUTZ, FL 33548-1787
 (727) 487-3497 PHONE
 (813) 482-9128 FAX

PROJECT:

CARDINAL HEALTH 2010 EXPANSION
 11210 N. MCKINLEY DR.
 TAMPA, FL 33612
 STR 16/28S/19E

CLIENT:

C.J. CARVALHO CONSTRUCTION, INC.
 728 WESLEY AVENUE, SUITE 1
 TARPON SPRINGS, FL 34689

REV/NO	DATE

CONSTRUCTION DATE: 04/24/10
 REVISIONS BY: J.C. CARVALHO
 DATE: 09/14/2007

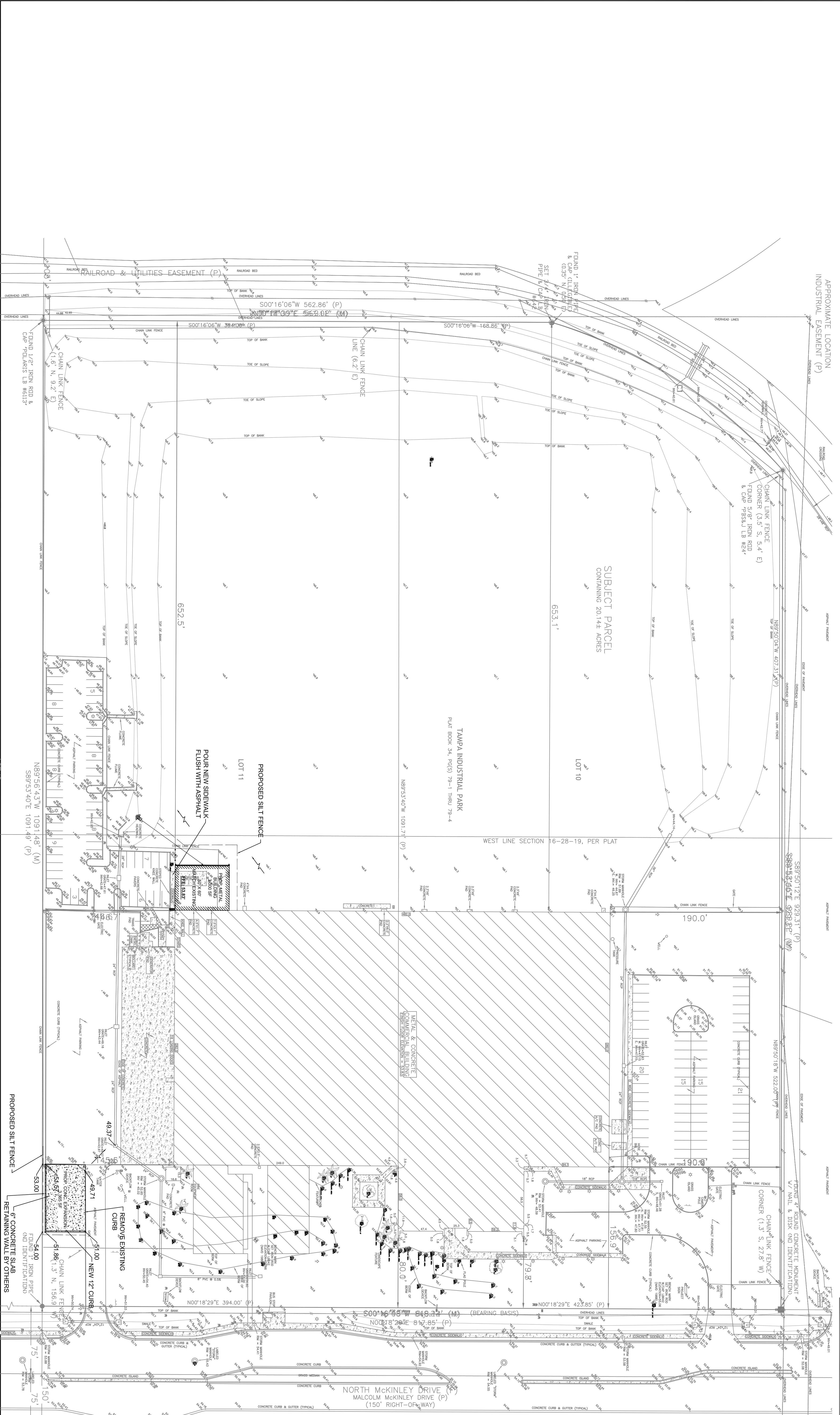
DES: J.C.
DWT: J.C.

DESIGNED BY: J.C. CARVALHO
 PROFESSIONAL ENGINEER # 20658

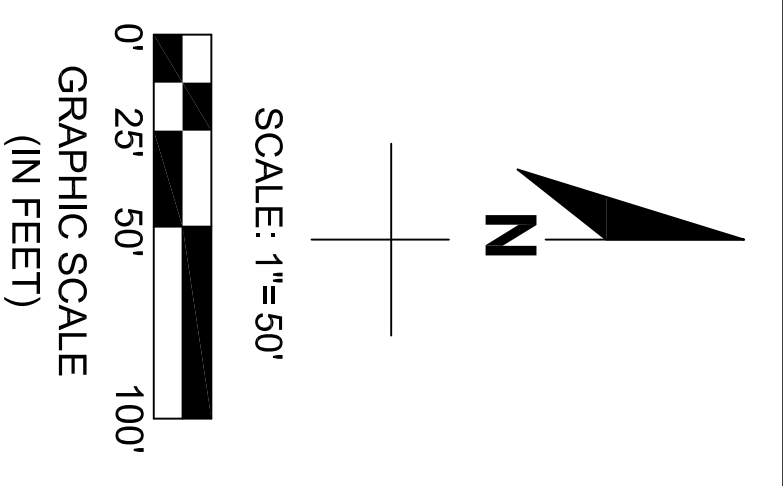
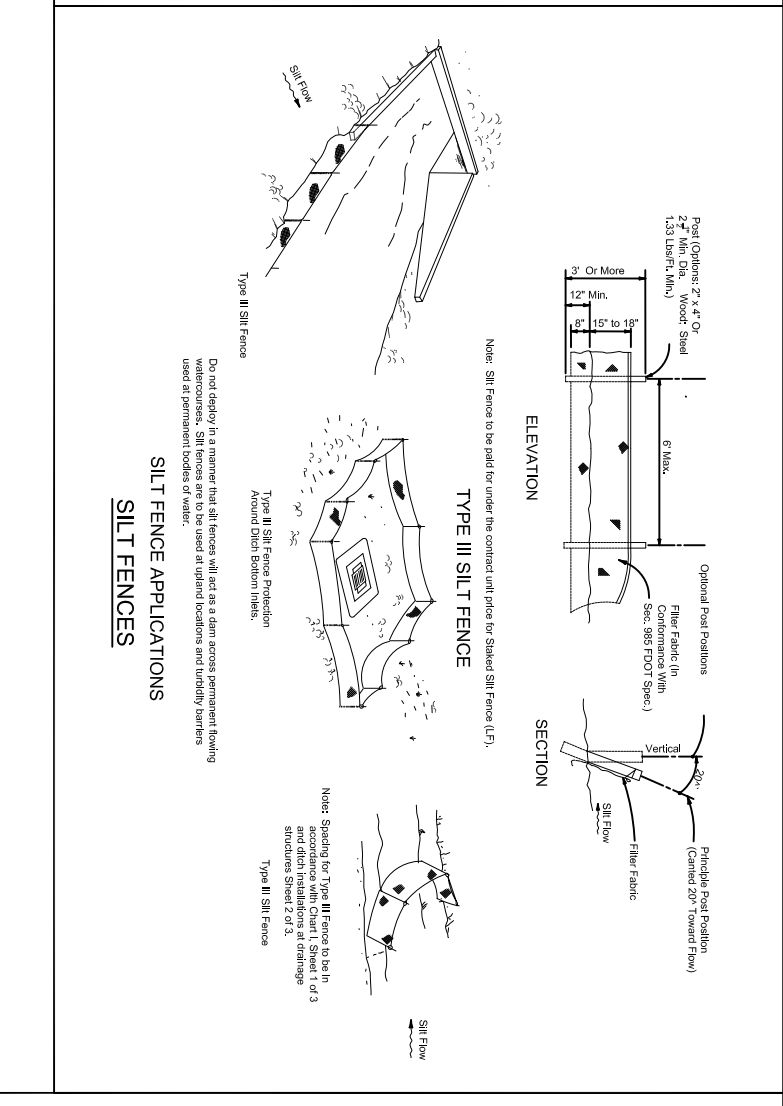
SITE/GRADING PLAN

SHEET NO.:

C-2



- CONSTRUCTION SILENT FENCE MAINTENANCE**
- PROVIDE TO MAINTAIN THE CONSTRUCTION ACTIVITIES
 - THE SILENT FENCE MUST BE MAINTAINED AT ALL TIMES AND MUST BE KEPT CLEAN AND FREE OF OBSTRUCTIONS
 - THE SILENT FENCE MUST BE MAINTAINED AT ALL TIMES AND MUST BE KEPT CLEAN AND FREE OF OBSTRUCTIONS
- CONTRACTOR MUST PROVIDE THE STABLED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE STANDARD INDEX TO:
 - CONTRACTOR MUST PROVIDE THE STABLED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE STANDARD INDEX TO:
- REMOVE SILENT FENCE AFTER ALL THE SLOPES ARE STABILIZED.
 - REMOVE SILENT FENCE AFTER ALL THE SLOPES ARE STABILIZED.
- APPROVED BY: **WARR SWIFT** CHECKED BY: **JERRY COOPER, P.E.**



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 TARPON SPRINGS, FL 34689

REV/NO	DATE
1	6/20/10

DRAWN: J.C.
CHECKED: J.C.
DATE: J.C.

DESIGNER: J.C.
DATE: J.C.

PROFESSIONAL ENGINEER # 20858

MASTER GRADING PLAN

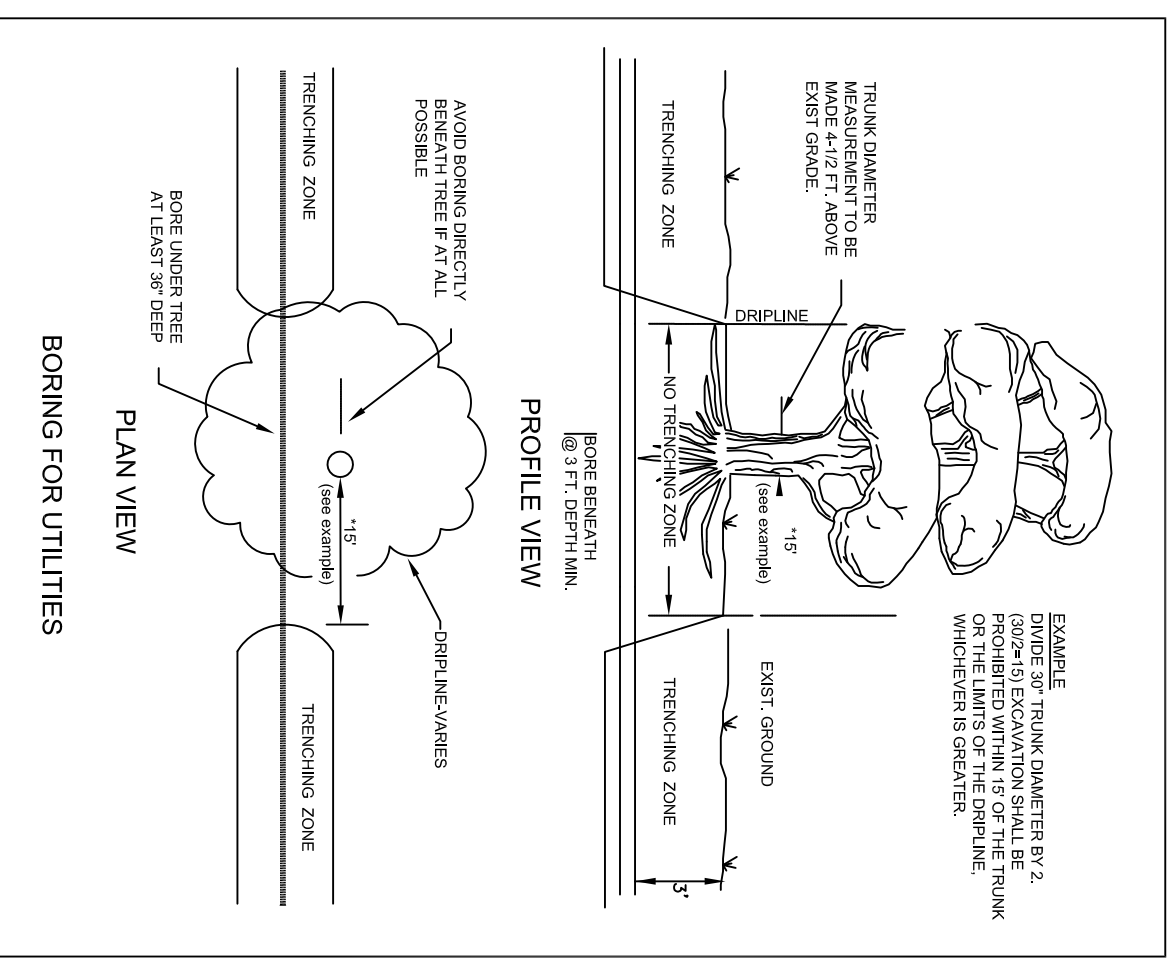
SHEET NO.: C-3

Section 13-162 Landscape and Tree Planting Standards:

- (a) Landscape and tree planting standards:
Landscape and tree planting required by this chapter shall meet the following standards:
- (1) Tree planting:
 - A. Recommended trees shall be used to meet the requirements of this chapter and shall be selected from the technical standards. Trees shall be planted at a minimum spacing of 10 feet between trees and shall be planted at a minimum depth of 10 feet from the trunk of the tree to the edge of the trunk of the tree. Palm trees shall be planted one (1) or one (1) with a recommended tree.
 - B. An existing or relocated protected tree which meets the standards of this section shall be protected from the planting. Requirements contained in section 13-161 for recommended trees on a parcel in accordance with the tree equivalency table set forth in Schedule B located in section 13-165.
 - C. Any person may request and the department may approve a tree as a replacement tree that is not included on the recommended tree list if the tree is similar in character and function to a tree on the recommended tree list.
 - D. A protective area with an effective minimum radius of four (4) feet from the trunk of a recommended tree shall be maintained around all recommended trees.
 - E. Planting holes may be used to install four (4) feet from the trunk of a protected tree, provided an effective minimum radius of ten (10) feet is created through the use of turf blocks, pavement sections, dividers or similar products.
 - F. Structural foundations may be located at a radius of four (4) feet from the trunk of a protected tree, provided an effective protective area is established proportional to the tree's species by using the following (100) square feet of protective area:
 - G. All recommended trees and plant material shall be planted in accordance with the specifications identified in the State Department of Agriculture and Consumer Services, Division of Forestry, Tree Protection Manual for Builders and Developers, October 1980, as revised from time to time.
 - (2) Landscape:
 - A. Landscape areas shall consist of at least sixty (60) percent native plant material and/or plant material adapted to local conditions. The use of non-native plants shall be limited to those plants which are drought resistant and require minimal maintenance. The use of turf grasses, sod, and other lawn areas shall be limited to those areas which are necessary for the protection of trees and other plants. Nonnative turf grasses shall be replaced with native grasses. Nonnative turf grasses shall be replaced with native grasses. Nonnative turf grasses shall be replaced with native grasses.
 - B. A layer of mulch to a minimum depth of three (3) inches shall be applied on the site plan in plant beds and around individual trees in turf areas. Organic mulches are preferred. The mulch should not be placed directly against the plant stem or trunk.
 - C. Areas on the parcel which are used for stormwater retention or detention ponds and depressions of less than two (2) feet and the landscaped banks of such ponds from the mean high waterline to the top of the bank shall be covered on a one-to-one basis with native plants and/or turf grasses.
 - D. If a hedge or other screen is used, it must be at least two (2) feet at time of planting.
 - E. Turf and grass sod shall be clean and free of weeds, noxious pests and diseases. Grass seed shall be delivered to the job site in bags with stable department of agriculture tags attached.
 - F. All landscaped areas must allow for access to public and private utility facilities for maintenance purposes.
 - G. A list of acceptable trees for tree planting within ten (10) feet of the vertical plane of existing power lines, excluding service wires, can be found in schedule B.
 - H. When an accessory structure is located within the stipulated area and the subject parcel abuts the intersection of two (2) or more public right-of-way, all landscaping within the stipulated area shall provide unobstructed cross-visibility at a level between thirty (30) feet and thirty-five (35) feet above the ground surface. Landscaping shall be installed so as not to create a traffic hazard as determined by the appropriate city official. Landscaping, except turf or ground cover, shall not be located closer than three (3) feet from the edge of any accessory pavement or right-of-way pavement.

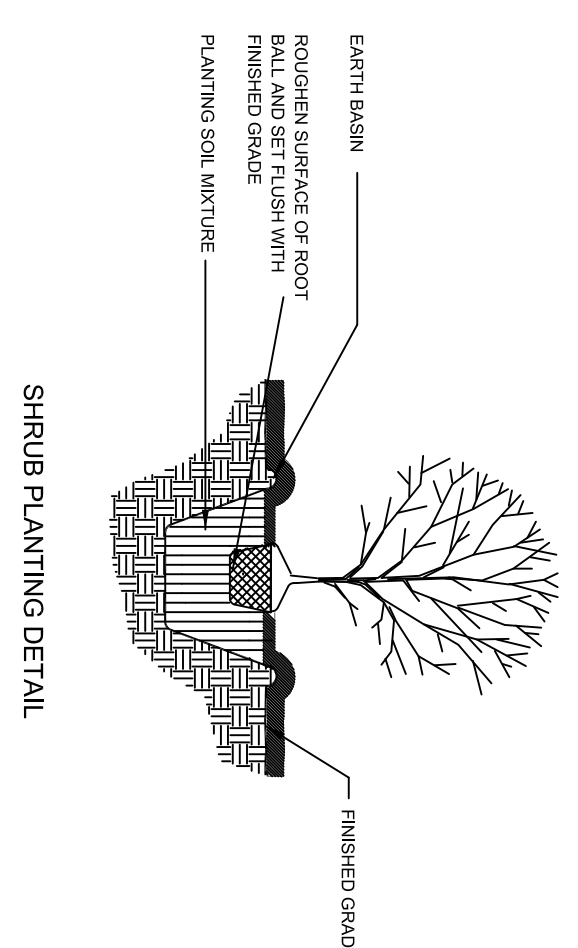
1. Replaced native plant material is not required to have an irrigation system.
2. Sprinkler systems shall be designed to provide adequate water to the plants and shall be installed in accordance with the Florida Building Code.
3. Xerophytic or drought-tolerant landscape material (see Southwest Florida Water Management District plant guide) planted in specific zones or beds is only required to be irrigated during established (minimum thirty (30) days) and protracted drought periods. Irrigation shall be a micro-irrigation system.
4. The landscape and tree planting plan shall illustrate the proposed irrigation zones, delineating micro-irrigation zones and areas utilizing irrigation techniques other than micro-irrigation.
5. Fertilizer (50) percent of the available green space shall be allowed to utilize irrigation techniques other than micro-irrigation. Turf areas shall be on a separate irrigation zone from other landscape plant zones. In the case of expansion of an existing development, the irrigation will apply to the area of new landscape, only.
6. In addition, in order to promote water conservation in the community a maximum of fifty (50) percent green space may be permitted to be irrigated. The irrigation system shall be designed to provide adequate water to the plants and shall be installed in accordance with the Florida Building Code.
7. The irrigation system shall be designed to "Standard and Specification for Turf and Landscape Irrigation Systems," Fourth Edition, 2000, Florida Irrigation Society and its subsequent revisions.
8. Sports fields, golf courses, cemeteries, and stormwater management systems are exempt from the turf area limitation and micro-irrigation requirements of this ordinance where functional need for turf is demonstrated. All other irrigation and landscape requirements of this ordinance apply.

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Sec. 13-164, Tree Protection Standards:

- Development on parcels shall comply with the following tree protection requirements:
- (1) Protective barriers shall be placed around all protected trees and grand trees during site clearing to create a protective root zone and shall remain in place until land reclamation. Site clearing shall be completed at a minimum distance of ten (10) feet from the edge of trunk of protected trees and twenty (20) feet from the edge of trunk of grand trees.
 - (2) A minimum distance of ten (10) feet from all protected trees and twenty (20) feet from all grand trees shall be maintained when installing underground utilities. If this results in unreasonable hardship, a soil auger shall be used to tunnel under the root system.
 - (3) Installation of artificial barriers such as protective barricades, fences, posts or walls shall not destroy or irreversibly harm the root system of protected trees and grand trees. Fences for walls shall be constructed of materials that are non-toxic to the tree and shall be designed to prevent damage to major roots.
 - (4) All trees to be removed during the site clearing phase shall be severed clean at the perimeter of the designated protective root zone.
 - (5) A two-foot layer of mulch shall be applied over the surface of exposed roots of protected trees and grand trees during site clearing phase.
 - (6) A protective dry wall and drainage/diversion system shall be provided where protected trees or grand trees will be adversely affected by raising the grade.
 - (7) A protective retaining wall shall be constructed at the perimeter of the protective root zone around a protected tree or grand tree where the protected tree or grand tree will be adversely affected by lowering the grade.
 - (8) All trimming of protected trees and grand trees during development shall be done by a qualified, licensed tree service.



REQUIRED NUMBER OF TREES	REQUIRED NUMBER OF TREES
VIA STREET FRONTAGE REQUIREMENT 46 / 40 FEET = 1	1
VIA SQUARE FOOTAGE REQUIREMENT 6,235 TOTAL VIA / 1,500 SF	13 TREES CREDIT - 4 TREES REQ. = 9 TREES OF CREDIT
DEBIT FOR TREES REMOVED	0
CREDIT FOR TREES TO REMAIN	13
TOTAL TREES TO BE PLANTED	1
20% GREENSPACE W/ 10' OF VUA	1,211 SF TOTAL VUA X .20 = 242 SF REQUIRED
MULTIFAMILY GREENSPACE WITH VUA	350 SF X . UNITS = N/A
MULTIFAMILY GREENSPACE W/O VUA	750 SF X . UNITS = N/A

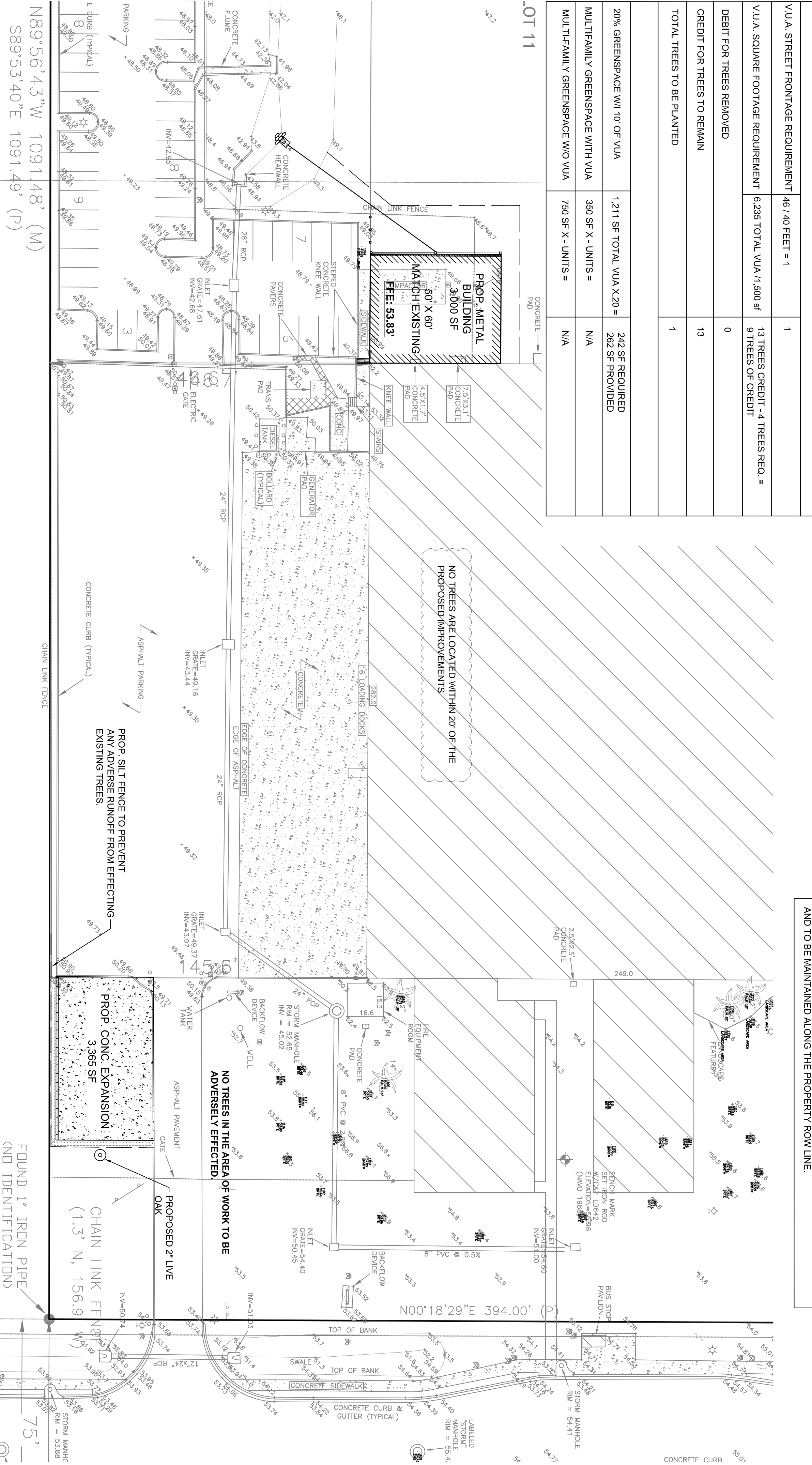
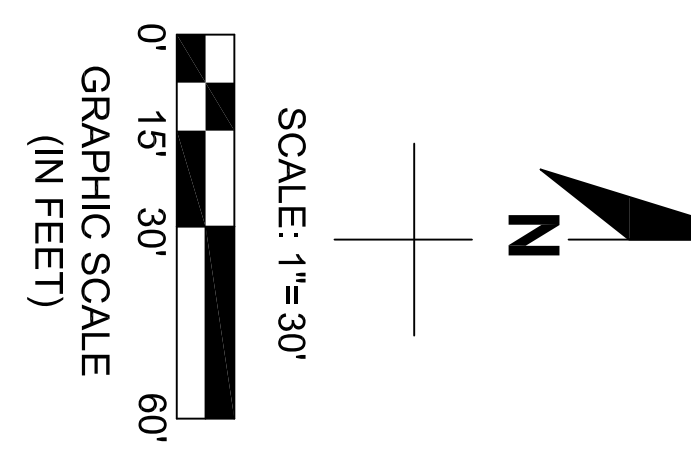
TREE TABLES FOR CREDIT AND DEBIT	DIAMETER (INCHES)	NUMBER RETAINED ON SITE	MULTIPLIER FOR CREDIT	CREDIT
	5" TO 7"	0	0	0
	8" TO 12"	0	1	0
	13" TO 19"	0	2	0
	20" TO 29"	1	4	4
	30" OR MORE	0	10	0
	ALL PALM	9	1	9
	TOTAL	10		13

PLANT LIST	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE AND SPACING	NATIVE
SHRUBS	40	VIBURNUM	SANDAKWIA	3 GAL. CONTAINER, 24" MIN. HEIGHT	YES
GROUND COVER		VIBURNUM	VIBURNUM	24" MIN SPREAD, PLANTED 3' ON CENTER	
					ALL PLANTS TO BE FLORIDA GRADE #1

REQUIRED NUMBER OF TREES	REQUIRED NUMBER OF TREES
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MULTIFAMILY GREENSPACE WITH VUA	350 SF X . UNITS = N/A
MULTIFAMILY GREENSPACE W/O VUA	750 SF X . UNITS = N/A

LANDSCAPE NOTES:

1. ALL LANDSCAPING ACTIVITIES SHALL MEET THE REQUIREMENTS OF THE CITY OF TAMPA CODE SECTION 161 AND 162, RELEVANT SPECIFICATIONS AREA INCLUDED IN NOTES ON SHEET 2.
2. LANDSCAPE AREAS SHALL HAVE 100% IRRIGATION COVERAGE TO MEETING NEW IRRIGATION CODE APPROVED BY THE CITY ON MARCH 2002:
 - a. SPRINKLER SPACING SHALL NOT EXCEED 55% OF THE SPRINKLERS
 - b. DIAMETER OF COVERAGE
 - c. SPRAYS AND ROTORS SHALL NOT BE COMBINED ON THE SAME CONTROL VALVE CIRCUIT
 - d. WITHIN EACH IRRIGATION ZONE, SPRAYS AND ROTORS SHALL HAVE DIFFERENT APPLICATION RATES
 - e. IRRIGATION SYSTEMS SHALL BE DESIGNED TO AVOID OVERSPRAY OR RUNOFF
 - f. NARROW AREAS (4' OR LESS) SHALL NOT BE IRRIGATED UNLESS MICRO-IRRIGATION IS USED
 - g. IRRIGATION EQUIPMENT SHALL INCLUDE AN AUTOMATIC IRRIGATION CONTROLLER WITH BATTERY BACKUP
 - h. AUTOMATIC CONTROLLER SHALL BE EQUIPPED WITH A RAIN SENSOR DEVICE
 - i. 50% OF ON-SITE GREENSPACE SHALL BE ALLOWED TO UTILIZE TRIPLE AREAS SHOWN ON THE PLAN
 - j. TRIPLE AREAS SHALL BE A SEPARATE IRRIGATION ZONE THAN OTHER LANDSCAPE ZONES.
3. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 AS PER GRADES AND STANDARDS FOR NURSERY PLANTS AND SHALL BE WARRANTED FOR A MINIMUM OF 90 DAYS BY THE LANDSCAPING CONTRACTOR.
4. HEDGE SHALL BE A MINIMUM HEIGHT OF 2 FEET AND 50% VIEW BLOCKAGE AT TIME OF PLANTING, WITH THE CAPABILITY OF AT LEAST A MINIMUM HEIGHT OF 3 FEET AND 50% VIEW BLOCKAGE WITHIN TWO YEARS.
5. TREES SHALL BE A MINIMUM HEIGHT OF 6 FEET AND 2 INCH DIAMETER DBH AT TIME OF PLANTING.
6. CONDUIT IS TO BE PLACED OUTSIDE OF PROTECTIVE RADIUS.
7. A LAYER OF MULCH TO A MINIMUM OF 3" SHALL BE SPECIFIED IN PLANT BEDS AND AROUND INDIVIDUAL TREES IN TURF AREAS. MULCH IS NOT REQUIRED IN ANNUAL BEDS.
8. ROOT PRUNING:
 - ALL ROOTS TO BE REMOVED DURING THE SITE PREPARATION PHASE SHALL BE SEVERED CLEAN AT THE PERIMETER OF THE DESIGNATED PROTECTED RADII.
 - ALL TRIMMING AND ROOT PRUNING OF PROTECTED TREES AND GRAND TREES SHALL BE DONE BY A LICENSED TREE SERVICE.
 - HEDGE AND BUFFER REQUIREMENTS
9. A MINIMUM OF AN 8' BUFFER INCLUDING APPROPRIATE LANDSCAPING IS SHOWN AND TO BE MAINTAINED ALONG THE PROPERTY ROW LINE.



N89°56'43"W 1091.48' (M)
S89°53'40"E 1091.49' (P)

TAMPA CIVIL DESIGN
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(813) 482-9128 FAX

CLIENT: C.J. CARVALHO CONSTRUCTION, INC.
728 WESLEY AVENUE, SUITE 1
TARPOON SPRINGS, FL 34689

PROJECT: CARDINAL HEALTH 2010 EXPANSION
11210 N. MCKINLEY DR.
TAMPA, FL 33612
STR 16/28S/19E

DATE: 08/20/07

REVISIONS:

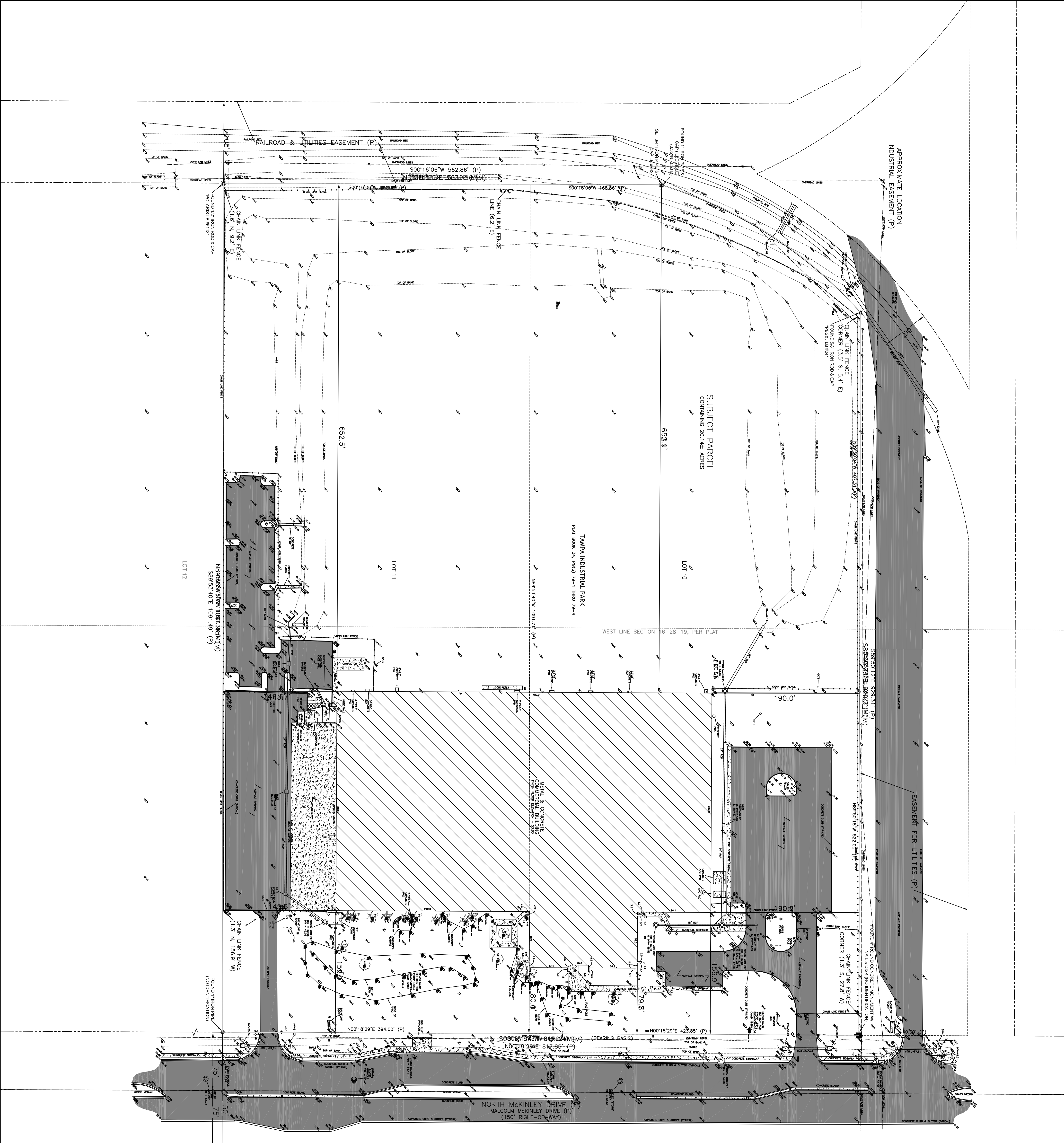
NO.	DATE	DESCRIPTION
1	08/20/07	ISSUED FOR PERMIT
2	08/20/07	ISSUED FOR CONSTRUCTION

DESIGNER: J.C.
DATE: 08/20/07

PROFESSIONAL ENGINEER: J.C. CARVALHO
PROFESSIONAL ENGINEER # 70589

LANDSCAPE PLAN

SHEET NO.: C-4



TAMPA CIVIL DESIGN
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REV./NO.	DATE

DESIGN: J.C.
 DRAWN: J.O.
 CHECKED: J.C.
 APPROVED: J.C.
 JEREMY COUCH, P.E.
 PROFESSIONAL ENGINEER # 76588

EXISTING CONDITIONS PLAN
 SHEET NO.: C-5