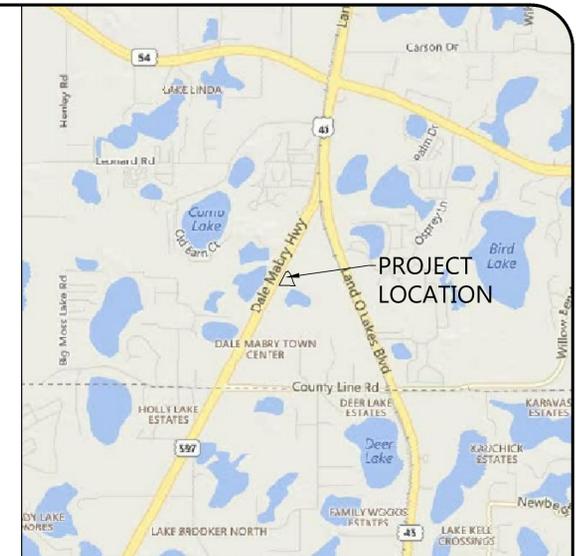


CONSTRUCTION DOCUMENTS

LUZ FSER

LUZ, PASCO COUNTY, FLORIDA

LEA PROJECT NO. 527116023
PASCO COUNTY SUBMITTAL
MAY 9, 2016



VICINITY MAP
NOT TO SCALE



NOTES

1. THE GRADING & DRAINAGE PLAN PROVIDED WAS BASED ON THE EXISTING FIELD CONDITIONS OF THE ADJACENT PROPERTY.

INDEX OF SHEETS

SHEET NO.	SHEET NAME
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS
C2.0	NOTES
C3.0	EROSION CONTROL PLAN
C3.1	EROSION CONTROL DETAILS
C4.0	DEMOLITION PLAN
C5.0	SITE LAYOUT PLAN
C6.0	GRADING & DRAINAGE PLAN
C7.0	UTILITY PLAN
C8.0-C8.1	DETAILS
C8.2	LIFT STATION DETAIL
C9.0-C9.1	COUNTY DETAILS
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE DETAILS
I1.0	IRRIGATION PLAN
I2.0-I2.4	IRRIGATION DETAILS
I2.5	IRRIGATION PUMP DETAILS
I2.6	IRRIGATION SPECIFICATIONS

ARCHITECT
**HEREFORD DOOLEY
ARCHITECTS**
1720 WEST END AVENUE, SUITE 300
NASHVILLE, TENNESSEE
(615) 244-7399

PREPARED FOR
**NEW PORT RICHEY
HOSPITAL, INC.**
ONE PARK PLAZA
NASHVILLE, TENNESSEE 37203
(615) 344-9551

CIVIL ENGINEER / LANDSCAPE ARCHITECT / SURVEYOR

Littlejohn
An S&ME Company

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Edward A. Browder PLA LA6666790 Florida Firm Registration No. 28050



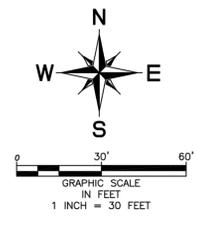
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C:\Projects\2016\527116023\Construction\527116023_C1-0_Ext.dwg-C1-0_Ext.dwg-C1-0_Ext.dwg - 2/4/16 pm cvo
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MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1430 DALE MABRY HIGHWAY PASCO COUNTY, FLORIDA



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 ARCHITECTS
 1720 WEST END AVE · SUITE 300
 NASHVILLE · TENNESSEE · 37203
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 F · 615 · 244 · 6697
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LEGAL DESCRIPTION:

A PARCEL OF LAND BEING ALL OF THOSE LANDS DESCRIBED IN THAT CERTAIN WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 8014 PAGE 953, A PORTION OF THOSE LANDS DESCRIBED IN THAT CERTAIN QUIT CLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 6321, PAGE 1425, AS CORRECTED BY CORRECTIVE QUIT CLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 6533, PAGE 696 AND A PORTION OF THOSE LANDS DESCRIBED IN THAT CERTAIN WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 4235, PAGE 394, AS CORRECTED BY CORRECTIVE WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 6533, PAGE 698, ALL BEING RECORDED IN THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA, LOCATED IN THE EAST 1/4 OF SECTION 35, TOWNSHIP 26 SOUTH, RANGE 18 EAST AND THE WEST 1/4 OF SECTION 36 TOWNSHIP 26 SOUTH, RANGE 18 EAST, PASCO COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCE AT THE WEST 1/4 CORNER OF SAID SECTION 36; THENCE RUN N88°31'26"W, ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF THE AFORESAID SECTION 35, A DISTANCE OF 157.77 FEET FOR THE POINT OF BEGINNING, POINT ALSO ON THE EASTERLY RIGHT OF WAY LINE OF DALE MABRY HIGHWAY, AS RECORDED IN OFFICIAL RECORDS BOOK 3222, PAGE 1932 AND OFFICIAL RECORDS BOOK 3258, PAGE 459 OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA; THENCE DEPARTING SAID SOUTH LINE, RUN N27°16'53"E ALONG SAID EASTERLY RIGHT OF WAY LINE FOR A DISTANCE OF 186.69 FEET TO A POINT ON THE SOUTHERLY LINE OF THAT "ACCESS BOULEVARD" AS DESCRIBED IN THAT CERTAIN CORRECTIVE WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 7607, PAGE 1454 OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA, SAID POINT ALSO BEING A POINT ON A NON TANGENT CURVE CONCAVE SOUTHWESTERLY, HAVING A RADIUS OF 350.00 FEET; THENCE FROM A CHORD BEARING OF S33°27'50"E, RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 35°18'59" AN ARC DISTANCE OF 215.74 FEET TO A POINT OF TANGENCY; THENCE RUN S15°48'21"E FOR A DISTANCE OF 68.16 FEET TO A POINT ON A NON TANGENT CURVE NORTHEASTERLY HAVING A RADIUS OF 410.50 FEET; THENCE FROM A CHORD BEARING OF S26°01'40"E, RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 20°05'33" AN ARC DISTANCE OF 144.07 FEET TO THE END OF SAID CURVE; THENCE DEPARTING THE AFORESAID SOUTHERLY LINE OF THAT CERTAIN "ACCESS BOULEVARD", RUN N88°31'24"W FOR A DISTANCE OF 107.10 FEET; THENCE RUN N46°00'14"W A DISTANCE OF 7.52 FEET; THENCE RUN N88°31'11"W FOR A DISTANCE OF 14.50 FEET TO THE SOUTHEAST CORNER OF THOSE LANDS DESCRIBED IN THE AFORESAID OFFICIAL RECORDS BOOK 3014, PAGE 834; THENCE RUN N88°31'25"W ALONG THE SOUTH LINE OF SAID LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 3014, PAGE 834, FOR A DISTANCE OF 255.56 FEET TO THE AFORESAID EASTERLY RIGHT OF WAY LINE OF DALE MABRY HIGHWAY; THENCE RUN N27°16'53"E, ALONG SAID EASTERLY RIGHT OF WAY LINE, A DISTANCE OF 214.51 FEET TO THE POINT OF BEGINNING.

LESS AND EXCEPT THE FOLLOWING DESCRIBED PARCEL:
 A PARCEL OF LAND LOCATED IN THE EAST 1/4 OF SECTION 35, TOWNSHIP 26 SOUTH, RANGE 18 EAST, PASCO COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCE AT THE EAST 1/4 CORNER OF SAID SECTION 35, THENCE RUN N88°31'26"W, ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35 FOR A DISTANCE OF 157.77 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY LINE OF DALE MABRY HIGHWAY, AS RECORDED IN OFFICIAL RECORDS BOOK 3222, PAGE 1932 AND OFFICIAL RECORDS BOOK 3258, PAGE 459, PUBLIC RECORDS OF PASCO COUNTY, FLORIDA; THENCE DEPARTING SAID SOUTH LINE, RUN N27°16'53"E ALONG SAID EASTERLY RIGHT OF WAY LINE A DISTANCE OF 147.89 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N27°16'53"E ALONG SAID EASTERLY RIGHT OF WAY LINE A DISTANCE OF 39.00 FEET TO A POINT ON THE SOUTHERLY LINE OF THAT "ACCESS BOULEVARD" AS DESCRIBED IN THAT CERTAIN CORRECTIVE WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 7607, PAGE 1454 OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA, SAID POINT ALSO BEING A POINT ON A NON TANGENT CURVE CONCAVE SOUTHWESTERLY, HAVING A RADIUS OF 350.00 FEET; THENCE FROM A CHORD BEARING OF S48°35'22"E, RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 05°03'57" AN ARC DISTANCE OF 30.95 FEET TO A POINT, THENCE DEPARTING SAID SOUTHERLY LINE OF THE "ACCESS BOULEVARD", S27°16'53"W FOR A DISTANCE OF 31.45 FEET; THENCE N62°43'07"W FOR A DISTANCE OF 30.00 FEET TO A POINT ON THE AFORESAID EASTERLY RIGHT OF WAY LINE OF DALE MABRY HIGHWAY, SAID POINT BEING THE POINT OF BEGINNING.
 TOGETHER WITH NON-EXCLUSIVE EASEMENTS FOR ACCESS AND UTILITIES AS SET FORTH IN THAT CERTAIN DECLARATION OF EASEMENTS, COVENANTS AND RESTRICTIONS AFFECTING LAND RECORDED AUGUST 16, 2005 IN OFFICIAL RECORDS BOOK 6533, PAGE 709, AS AFFECTED BY THAT CERTAIN ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK 8287, PAGE 1414 OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA, CONTAINING 1.68 ACRES, MORE OR LESS.

PROJECT
 216013.00
LOCATION
 1430 Dale Mabry Highway
 Lutz, FL 33548
CLIENT
 Medical Center of Trinity
 9330 State Road 54
 Trinity, FL 34655

LUTZ FSR

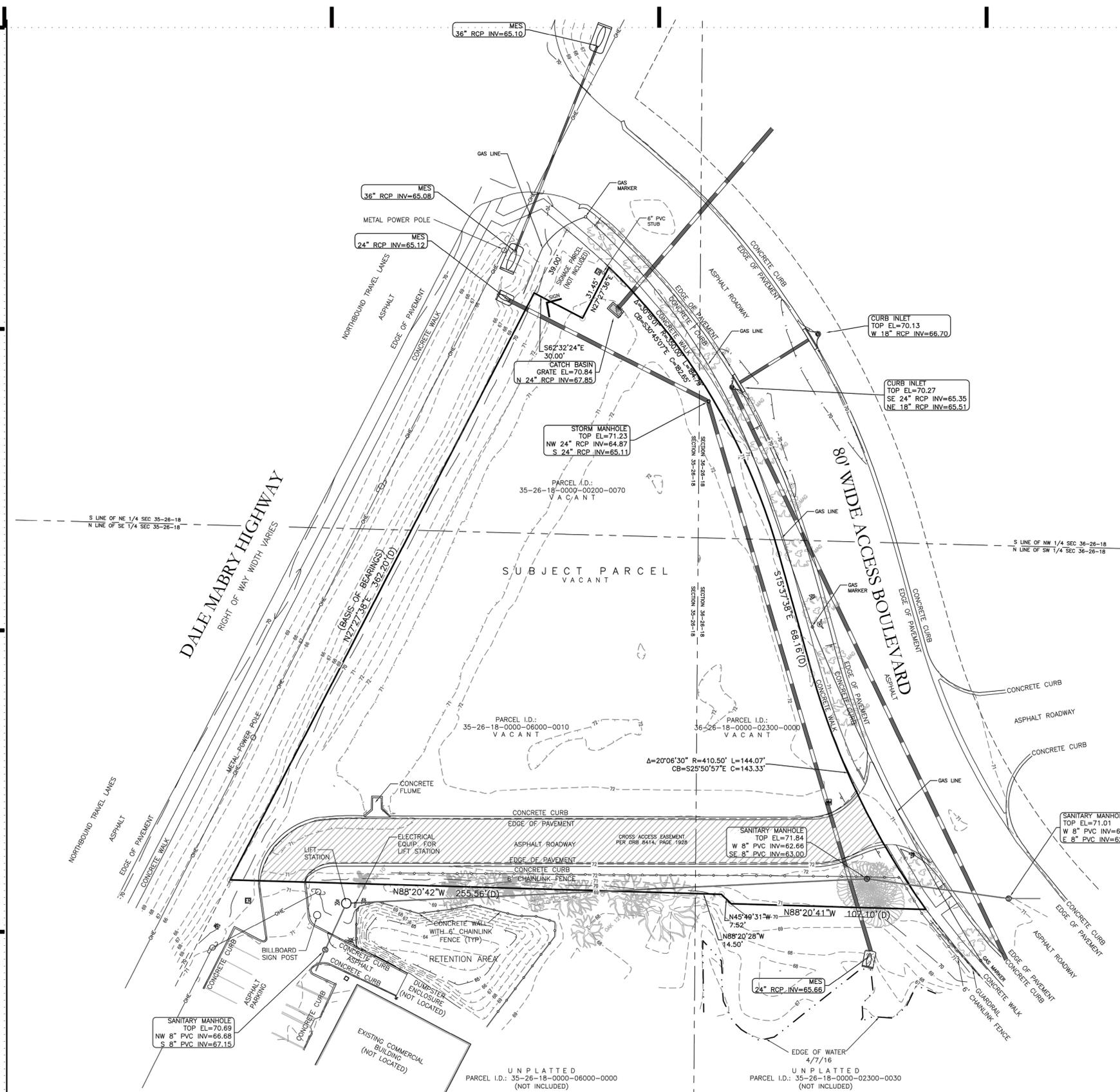
CONSTRUCTION DOCUMENTS

05/09/2016

527116023

EXISTING CONDITIONS

C1.0



VERTICAL DATUM: NAVD 1988

I HEREBY CERTIFY THAT THE MAP OF SURVEY SHOWN HEREON IS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE AS SET FORTH BY THE BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 51-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.



FLORIDA REGISTERED LAND SURVEYOR AND MAPPER, NOT VALID WITHOUT THE SIGNATURE & THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

1615 Edgewater Drive, Suite 200, ORLANDO, FLORIDA 32804
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 George B. Huddleston, III, P.E. 75608
 Edward A. Browder, PLA, LA6666790 Florida Firm Registration No. 28050

SYMBOLS		ABBREVIATIONS	
	LIGHT POLE	A - ARC	ARC
	ELECTRIC RISER	AC - AIR CONDITIONER	AC
	ELECTRIC METER	BM - BENCH MARK	BM
	TRANSFORMER	BOOK - BOOK	BOOK
	CABLE/PHONE (COMMUNICATIONS) RISER	CC - CALCULATED MEASUREMENT	CC
	CABLE/PHONE (COMMUNICATIONS) VAULT	CM - CHORD BEARING	CM
	IRRIGATION CONTROL VALVE	C/L - CENTERLINE	C/L
	IRRIGATION (REUSE) GATE VALVE	CONC - CONCRETE	CONC
	BACKFLOW PREVENTER	CBS - CONCRETE BLOCK STRUCTURE	CBS
	WATER VALVE	CMP - CORRUGATED METAL PIPE	CMP
	WATER METER	CR - COUNTY ROAD	CR
	FIRE HYDRANT	DB - DEED BOOK	DB
	FIRE DEPT. CONNECTION	DC - DEED OR CENTRAL ANGLE	DC
	POST INDICATOR VALVE	DE - DRAINAGE EASEMENT	DE
	MONITORING WELL	DU - DRAINAGE & UTILITY EASEMENT	DU
	MAGNOLIA	EL - ELEVATION	EL
	PALM	ES - EASEMENT	ES
	PINE	GPS - GLOBAL POSITIONING SYSTEM	GPS
	ELEC. OUTLET	ME - METEOROLOGICAL	ME
	WOOD POWER POLE	MS - METEOROLOGICAL SECTION	MS
	SET 4x4 CONC. MONUMENT LB 7914	NE - NOT TO SCALE	NE
	SET 5/8 IRON ROD LB 7914	OE - OVERHEAD ELECTRIC LINES	OE
	MONITORING WELL	OR - OFFICIAL RECORDS BOOK	OR
	MONITORING WELL	PG - PAGE	PG
	MONITORING WELL	PL - PLAT BOOK	PL
	MONITORING WELL	POB - POINT OF BEGINNING	POB
	MONITORING WELL	POC - POINT OF COMMENCEMENT	POC
	MONITORING WELL	PC - POINT OF CURVATURE	PC
	MONITORING WELL	PI - POINT OF INTERSECTION	PI
	MONITORING WELL	PRC - POINT OF REVERSE CURVE	PRC
	MONITORING WELL	PT - POINT OF TANGENCY	PT
	MONITORING WELL	PVC - POLYVINYL CHLORIDE PIPE	PVC
	MONITORING WELL	RA - RAINFALL	RA
	MONITORING WELL	R - REGISTERED LAND SURVEYOR	R
	MONITORING WELL	RS - REGISTERED LAND SURVEYOR	RS
	MONITORING WELL	RCP - REINFORCED CONCRETE PIPE	RCP
	MONITORING WELL	R/W - RIGHT OF WAY	R/W
	MONITORING WELL	SEC - SECTION	SEC
	MONITORING WELL	SR - STATE ROAD	SR
	MONITORING WELL	SW - SW	SW
	MONITORING WELL	TWP - TOWNSHIP	TWP
	MONITORING WELL	UE - UTILITY EASEMENT	UE
	MONITORING WELL	NAV - NORTH AMERICAN VERTICAL DATUM	NAV
	MONITORING WELL	NAD - NATIONAL GEODETIC VERTICAL DATUM	NAD
	MONITORING WELL	ALTA/ACSM - AMERICAN LAND TITLE ASSOCIATION/AMERICAN CONGRESS SURVEYING AND MAPPING	ALTA/ACSM

SURVEY NOTES:

- BEARINGS ARE BASED THE EAST RIGHT OF WAY OF DALE MABRY HIGHWAY, THAT BEARING BEING N27°27'38"E.
- LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR EASEMENTS, RIGHTS-OF-WAY OR ADJOINERS OF RECORD.
- UNDERGROUND UTILITIES, FOUNDATIONS OR OTHER STRUCTURES WERE NOT LOCATED BY THIS SURVEY.



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PROJECT
LOCATION
CLIENT

216013.00

1430 Dale Mabry Highway
Lutz, FL 33548

Medical Center of Trinity
9330 State Road 54
Trinity, FL 34655

LUTZ FSER

CONSTRUCTION
DOCUMENTS



05/09/2016

DATES OF ISSUANCE

TITLE
SHEET

NOTES

C2.0

DEMOLITION NOTES

- 1. ALL MATERIALS BEING REMOVED AND NOT RELOCATED UNDER THE NEW CONSTRUCTION, INCLUDING TREES AND SHRUBS, SIGNS, UTILITY STRUCTURES, ETC., SHALL BE FIRST OFFERED TO THE OWNER'S REPRESENTATIVE AND IF NOT ACCEPTED SHALL THEN BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
3. THE CONTRACTOR SHALL VERIFY THE LIMITS OF DEMOLITION WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
4. IN AREAS WHERE EXISTING PAVEMENT, WALKS, OR CURBS ARE TO BE REMOVED, SAW CUT TO PROVIDE A CLEAN EDGE. COORDINATE EXTENT OF PAVEMENT DEMOLITION WITH THE LIMIT OF NEW IMPROVEMENTS ON THE SITE LAYOUT PLAN & UTILITY INSTALLATION.
5. CONTRACTOR SHALL COORDINATE PHASING OF THE DEMOLITION WITH THE OWNER'S REPRESENTATIVE AND LOCAL GOVERNING AGENCY PRIOR TO BEGINNING WORK. DISRUPTION OF EXISTING UTILITY SERVICES AND TRAFFIC PATTERNS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE AND INITIATED ONLY AFTER APPROVAL BY THE LOCAL GOVERNING AGENCY AND THE UTILITY COMPANIES.
6. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE SUITABLY BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO ACCOMPLISH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
9. THE CONTRACTOR SHALL PRESERVE AND PROTECT SURVEY CONTROL POINTS AND SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY DISTURBED CONTROL POINTS.
10. EXISTING TREES TO BE PRESERVED ARE TO BE BARRICADED BEFORE BEGINNING CONSTRUCTION IN ACCORDANCE WITH THE TREE PRESERVATION NOTES AND DETAIL ON THE LANDSCAPE PLAN.
11. NO UTILITY OR STORM SEWER LINES SHALL BE DEMOLISHED UNTIL THE NEW LINES HAVE BEEN INSTALLED AND ARE PLACED INTO OPERATION.
12. THE CONTRACTOR SHALL INCORPORATE INTO HIS WORK ANY ISOLATION VALVES OR TEMPORARY PLUGS REQUIRED TO CONSTRUCT NEW UTILITY LINES AND DEMOLISH EXISTING UTILITY LINES.
13. WHERE WATER LINE AND SEWER LINE ABANDONMENT IS PLANNED, THE CONTRACTOR MAY ABANDON WATER LINES AND SEWER LINES IN PLACE WHERE THEY OCCUR AT LEAST 24" (TO TOP OF PIPE) BELOW FINAL SUBGRADE ELEVATIONS AND OUTSIDE THE BUILDING FOOT PRINT. ALL UTILITY LINES BEING ABANDONED IN PLACE SHALL HAVE ALL ENDS PERMANENTLY CLOSED USING A CONCRETE PLUG.
14. WHERE EXISTING IRRIGATION LINED LIE WITHIN THE AREA AFFECTED BY THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL REWORK THE EXISTING IRRIGATION SYSTEMS IN ACCORDANCE WITH DIRECTIVES NOTED ON THE LANDSCAPE PLAN. SERVICE SHALL BE MAINTAINED DURING CONSTRUCTION TO THE LANDSCAPED AREAS CURRENTLY IRRIGATED.

SITE DATA NOTES

PARCEL ID.: 35-26-18-0000-00200-0070
36-26-18-0000-06000-0010
36-26-18-0000-02300-0000
SITE ADDRESS: 1430 DALE MABRY HIGHWAY LUTZ, FLORIDA
SITE ACREAGE: 1.68 AC. (73,180 FT²)
EXISTING ZONING: MPUD
FUTURE LAND USE: R-O-R
PROPOSED USE: MEDICAL CLINIC
PROPOSED UNITS: 10,820 S.F.
PROPOSED MAX. BUILDING HEIGHT: 22 FT. 8 IN.
ALLOWED MAX. BUILDING HEIGHT: 35 FT.

IMPERVIOUS SURFACE AREA
BUILDINGS: 0.25 AC. (10,820 FT²)
DRIVES/SIDEWALKS: 0.66 AC. (28,831 FT²)
TOTAL PROPOSED IMPERVIOUS AREA: 0.91 AC. (39,651 FT²)

PROPOSED ISR: 54.2%
ALLOWED ISR: 60.0%
PARKING SUMMARY
PARKING REQUIRED: 1 SPACE / 200 S.F. OF BUILDING
54 SPACES REQUIRED
BICYCLE PARKING REQUIRED: 0.02 SPACE / PROVIDED SPACE
2 SPACES REQUIRED
PARKING PROVIDED: 54 SPACES PROVIDED (4 ADA ACCESSIBLE)
BICYCLE PARKING PROVIDED: 4 SPACES

FEMA PANEL: THE SUBJECT PROPERTY DOES LIE WITHIN SPECIAL FLOOD HAZARD ZONE "AE" ACCORDING TO COMMUNITY PANEL NO. 12101C0411F, DATED SEPTEMBER 26, 2014.

OWNER/DEVELOPER: NEW PORT RICHEY HOSPITAL, INC.
ADDRESS: ONE PARK PLAZA
NASHVILLE, TENNESSEE 37203

PROJECT REPRESENTATIVE: LITTLEJOHN ENGINEERING
ADDRESS: 1615 EDGEWATER DR., SUITE 200
ORLANDO, FL 32804
(407) 975-1273
PHONE NO.: GEORGE HUDDLESTON
CONTACT NAME: GEORGE HUDDLESTON
CONTACT E-MAIL ADDRESS: ghuddleston@leainc.com

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George B. Huddleston, III, P.E. 75608
Edward A. Browder, PLA, LA6666790 Florida Firm Registration No. 28050

SITE UTILITY NOTES

- 1. THE SANITARY SEWER SHALL BE OF THE MATERIAL INDICATED ON THE PLAN. POLYVINYLCHLORIDE (PVC) SHALL BE (SDR35). DUCTILE IRON PIPE (D.I.P.) SHALL BE CLASS 52.
2. ALL WATER LINES, SEWER LINES, AND APPURTENANCES SHALL BE OF MATERIALS AND CONSTRUCTION THAT CONFORM TO THE LOCAL AGENCY STANDARDS AND SPECIFICATIONS.
3. PROVIDE A MINIMUM 36" OF COVER OVER ALL WATER LINES.
4. THE CONTRACTOR SHALL MAINTAIN 10 FEET HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES. WHERE THESE CRITERIA CANNOT BE MET, THE CONTRACTOR SHALL MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES.
5. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF EXISTING MANHOLES OR SANITARY SEWER LINES AT THE POINT OF CONNECTION PRIOR TO THE COMMENCEMENT OF ORDERING OF MATERIALS, CONSTRUCTION OR REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES DO NOT CONFLICT WITH SANITARY SEWERS, SANITARY SEWER SERVICES, STORM SEWERS, OR ANY OTHER UTILITY OR STRUCTURE, EXISTING OR PROPOSED.
7. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
8. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE LOCAL WATER AND SEWER DEPARTMENT SPECIFICATIONS.
9. ALL TRENCHES CUT IN EXISTING ROADS OR DRIVES SHALL UTILIZE A CLEAN SAW CUT AND SHALL BE BACKFILL (100%) TO FINAL SUBGRADE WITH #57 STONE. REPAIR ROADS PER LOCAL AGENCY REQUIREMENTS.
10. REPAIR ALL DAMAGE TO EXISTING FEATURES (i.e. DRIVES, ROADS, YARDS, LANDSCAPING, ETC...) TO PRE-CONSTRUCTION CONDITION.
11. THE CONTRACTOR SHALL PROVIDE ALL HORIZONTAL AND VERTICAL BENDS TO ATTAIN THE ALIGNMENT INDICATED ON THE PLANS. PROVIDE VERTICAL BENDS WHERE NECESSARY TO ALLOW WATER LINES TO PASS UNDER OR OVER OTHER UTILITY LINES. (ALL BENDS AND BRACES NEEDED MAY NOT BE ACTUALLY SHOWN). PROVIDE BRACING AND/OR RODDING AT ALL BENDS AND TEES AS REQUIRED BY WATER DEPARTMENT.
12. REDUCED PRESSURE BACKFLOW PREVENTER (RPBP) OR DUAL CHECK WILL BE REQUIRED ON ALL TESTS AND FILL LINES (JUMPER) NEEDED FOR WATER MAIN CONSTRUCTION AND MUST BE APPROVED BY THE WATER DEPARTMENT.
13. COORDINATE THE EXACT LOCATION OF ALL UTILITIES ENTERING THE BUILDING WITH THE PLUMBING PLANS.
14. WATER METERS SHALL BE AT LEAST 22" BUT NO MORE THAN 26" FROM TOP OF METER TO PROPOSED FINISHED GRADE.
15. THE CONTRACTOR SHALL VERIFY REQUIRED PIPE LENGTHS. EXISTING PIPE MATERIAL AND SIZES AS SHOWN ON PLANS.
16. REPAIR EXISTING PAVEMENT, CURBS, WALKS, LANDSCAPING, ETC. THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES TO A LIKE NEW CONDITION AT NO ADDITIONAL COST TO THE OWNER.
17. THE PROPOSED GAS LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL GAS COMPANY BY THE CONTRACTOR.
18. THE PROPOSED ELECTRIC LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL ELECTRIC COMPANY BY THE CONTRACTOR.
19. THE PROPOSED TELEPHONE LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL TELEPHONE COMPANY BY THE CONTRACTOR.
20. WHERE DRAINAGE OR UTILITY LINES OCCUR IN PROPOSED FILL AREAS, THE FILL MATERIAL IS TO BE PLACED AND COMPACTED TO GEOTECHNICAL ENGINEER'S RECOMMENDATION PRIOR TO INSTALLATION OF DRAINAGE OR UTILITY LINES. FILL IS TO BE INSPECTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER TESTING FIRM EMPLOYED BY THE OWNER. RESULTS OF THE TEST SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE. CONTRACTOR TO PAY FOR ANY RETESTING.
21. THE CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE WATER LINES (HORIZONTALLY AND/OR VERTICALLY) TO ALLOW THE REQUIRED BRACING AT BENDS AND TEES.
22. EXISTING CASTINGS LOCATED IN FILL/CUT AREAS SHALL BE ADJUSTED TO ENSURE THAT THE TOP OF CASTING IS FLUSH WITH THE FINISHED GRADE.
23. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
24. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS.
25. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY THE CORING AND RESILIENT SEAL METHOD.
26. FIRE HYDRANT ASSEMBLIES INCLUDE THE APPROPRIATE SIZED TEE (WITH KICKER), 6" LINE TO HYDRANT, 6" GATE VALVE (WITH VALVE BOX), AND FIRE HYDRANT (WITH KICKER). HYDRANTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
27. CONTRACTOR SHALL MARK THE LOCATION OF ALL NEW PVC LINES WITH #8 WIRE.
28. SIAMENSE STAND PIPE TO BE GALVANIZED STEEL.
29. ALL FIRE LINES SHALL BE INSTALLED BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF THE FLORIDA.

Project Zoning Petitions table with columns: Name, ZoneID, Area, Zoning Description, Petition, Date, Request

SITE GRADING & EROSION CONTROL NOTES

- 1. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 1.24 ACRES.
2. THE SUBJECT PROPERTY DOES LIE WITHIN SPECIAL FLOOD HAZARD ZONE "AE" ACCORDING TO COMMUNITY MAP NO. 12101C0411F OF THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR PASCO COUNTY, FLORIDA, WITH AN EFFECTIVE DATE OF SEPTEMBER 26, 2014.
3. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
4. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
6. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
7. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE STORM DRAIN CONNECTIONS AT THE BUILDING WITH THE PLUMBING PLANS.
8. THE CONTRACTOR SHALL CHECK ALL EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
9. THE CONTRACTOR SHALL ADJUST THE CASTINGS OF ALL NEW AND EXISTING STRUCTURES TO MATCH PROPOSED FINISH GRADES.
10. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
11. PROPOSED CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF AN ENGINEERED GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEM WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.
12. ALL CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS.
13. ALL PIPES UNDER EXISTING PAVED AREAS SHALL BE BACKFILLED TO THE TOP OF SUBGRADE WITH CRUSHED STONE.
14. MINIMUM GRADE ON ASPHALT OR CONCRETE PAVING SHALL BE 1.0%. THE MAXIMUM GRADES WITHIN ACCESSIBLE SPACES SHALL BE 2% IN ANY DIRECTION.
15. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND OBTAIN APPROVAL AS NECESSARY BEFORE BEGINNING CONSTRUCTION.
16. ALL EARTHWORK, INCLUDING THE EXCAVATED SUBGRADE AND EACH LAYER OF FILL, SHALL BE MONITORED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER, OR HIS REPRESENTATIVE.
17. IF ANY SPRINGS OR UNDERGROUND STREAMS ARE EXPOSED DURING CONSTRUCTION PERMANENT FRENCH DRAINS MAY BE REQUIRED. THE DRAINS SHALL BE SPECIFIED AND LOCATED DURING CONSTRUCTION AS REQUIRED BY THE CONDITIONS WHICH ARE ENCOUNTERED, AND SHALL BE APPROVED BY THE ENGINEER.
18. THIS GRADING & DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED. A GEOTECHNICAL SOILS REPORT HAS BEEN PREPARED AND IS AVAILABLE FROM THE OWNER. DETERMINATION OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
19. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO COMPACT FILL SUFFICIENTLY AROUND AND OVER ALL PIPES, STRUCTURES, VALVE STEMS, ETC., INSIDE THE PROPOSED PAVED AREAS TO AVOID SETTLEMENT. ANY SETTLEMENT DURING THE WARRANTY PERIOD SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
20. IN NO CASE SHALL SLOPE, HEIGHT, SLOPE INCLINATION, OR EXCAVATION DEPTH, INCLUDING TRENCH CONSTRUCTION, EXCEED THOSE SPECIFIED IN LOCAL, STATE AND FEDERAL REGULATIONS, SPECIFICALLY THE CURRENT OSHA HEALTH AND SAFETY STANDARDS FOR EXCAVATIONS (29 CFR PART 1926) SHALL BE FOLLOWED.
21. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
22. STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE UPON COMPLETION OF GENERAL GRADING OVER ALL DISTURBED AREAS, TO A MINIMUM DEPTH OF 6". CONTRACTOR SHALL SUPPLY ADDITIONAL TOP SOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE.
23. TOP OF GRADE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE AS SHOWN ON THE DETAIL, UNLESS NOTED OTHERWISE. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADES.
24. ALL DRAINAGE CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL GOVERNING AGENCY. 25.
25. POSITIVE DRAINAGE SHALL BE ESTABLISHED AS THE FIRST ORDER OF WORK AND SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. SOIL SOFTENED BY PERCHED WATER IN FOUNDATION AND PAVEMENT AREAS MUST BE UNDERCUT AND REPLACED WITH SUITABLE FILL MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER. GROUNDWATER INFILTRATION INTO EXCAVATIONS SHOULD BE EXPECTED, AND THE WATER SHALL BE REMOVED USING GRAVITY DRAINAGE OR PUMPING.
26. REINFORCED CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III WALL "B". HDPE SHALL BE CORRUGATED, SMOOTH WALL N-12 PIPE WITH SOIL TIGHT JOINTS.
27. FILL SLOPES 3:1 AND GREATER SHALL BE PLACED AND COMPACTED 5' BEYOND PROPOSED LIMITS AND THEN EXCAVATED BACK TO THE PROPOSED LOCATION.
28. THE CONTRACTOR SHALL PROVIDE AN ASBUILT SURVEY STAMPED BY A LICENSED SURVEYOR IN THE STATE OF FLORIDA OF ALL PUBLIC STORM SYSTEMS, ONSITE DETENTION PONDS, AND WATER QUALITY MEASURES VERIFYING COMPLIANCE WITH DESIGN DOCUMENTS.
29. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THIS MATERIAL SHALL BE PLACED IN LIFTS DIRECTED BY THE GEOTECHNICAL ENGINEER AND COMPACTED AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
30. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES IS TO BE PLACED AT A SITE APPROVED BY THE ENGINEER. IT SHALL BE TREATED IN A MANNER SO THAT THE AREA AROUND THE DISPOSAL SITE WILL NOT BE CONTAMINATED OR DAMAGED BY THE SEDIMENT IN THE RUN-OFF. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR EARTHWORK. THE CONTRACTOR SHALL OBTAIN THE DISPOSAL SITE AS PART OF THIS WORK.
31. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS.
32. ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL REQUIRED PERMITS ARE SECURED FOR EACH PROPERTY UTILIZED. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
33. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WASTE EXCESS EARTH MATERIAL OFF SITE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL FIRST OFFER THE EXCESS MATERIAL TO THE OWNER. IF NOT ACCEPTED BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF EARTH MATERIAL OFF SITE. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT SUITABLE MATERIAL (AT NO ADDITIONAL COST TO THE OWNER) FOR EARTHWORK OPERATIONS IF SUFFICIENT AMOUNTS OF EARTH MATERIAL ARE NOT AVAILABLE ON SITE.

GENERAL NOTES

- 1. THE PROJECT SITE IS PARCEL NUMBERS 35-26-18-0000-00200-0070, 36-26-18-000-06000-0010 & 36-26-18-0000-02300-0000.
2. BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY LITTLEJOHN ENGINEERING ASSOCIATES, INC. DATED APRIL 12, 2016.
3. THE SITE LAYOUT IS BASED ON REFERENCE POINTS AS NOTED.
4. THE CONTRACTOR SHALL CHECK ALL EXISTING CONDITIONS, (i.e. INVERTS, UTILITY ROUTINGS, UTILITY CROSSINGS, AND DIMENSIONS) IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE ENGINEER.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL CALL NATIONAL ONE CALL (811) 72 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION.
6. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
7. EXISTING PAVEMENT OF PUBLIC ROADWAYS SHALL BE PATCHED IN ACCORDANCE WITH LOCAL AGENCY STANDARDS WHEREVER UTILITY INSTALLATION REQUIRES REMOVAL OF THE EXISTING PAVEMENT. COORDINATE PAVEMENT TRENCHING LOCATIONS WITH SITE CIVIL, PLUMBING AND ELECTRICAL PLANS.
8. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. SLIGHT FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.
9. DIMENSIONS ARE TO FACE OF CURB AND/OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
10. CONCRETE FOR CURBS AND SIDEWALKS SHALL BE 3500 PSI CONCRETE.
11. ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR TO THE LOCAL GOVERNING AUTHORITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. GRADES WITHIN ACCESSIBLE SPACES SHALL BE MAXIMUM 2% IN ALL DIRECTIONS.
13. CURBS SHALL BE PARALLEL TO THE CENTERLINE OF DRIVES. THE CURB SHALL BE PLACED ONLY AFTER HAVING ALL BREAK POINTS (PC & PT OF CURVES) LOCATED AT THE FACE OF CURB OR AT A CONSISTENT OFFSET BY A REGISTERED LAND SURVEYOR.
14. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
15. THE CONTRACTOR SHALL PAVE IN THE DIRECTION OF TRAFFIC.
16. THE CONTRACTOR WILL BE REQUIRED TO ADJUST GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.
17. ALL ROADWAY AND SIDEWALK CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF LOCAL GOVERNING AGENCY.
18. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL GOVERNING AGENCY AND STATE DOT REGULATIONS AND SPECIFICATIONS.
19. ALL CURBING WILL BE REQUIRED TO ADJUST TO THE GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES, AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.

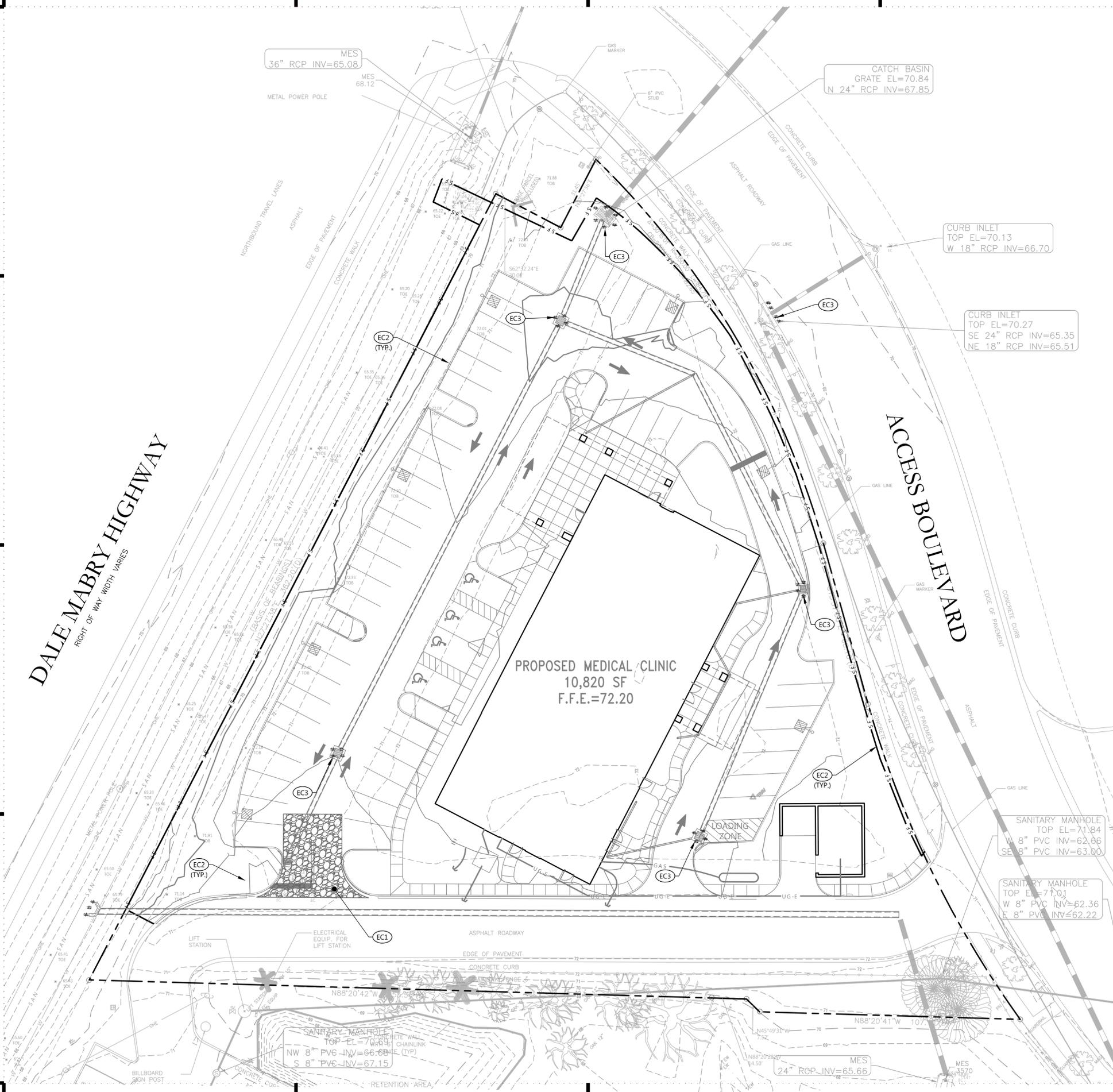
EROSION CONTROL NOTES:

- 1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNERS REPRESENTATIVE.
7. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.

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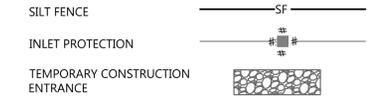
C:\Projects\2016\527116023\Construction\527116023_C3-0_ERD.dwg-C3.0 Erosion Control Plan May 10, 2016 - 11:25am inderson
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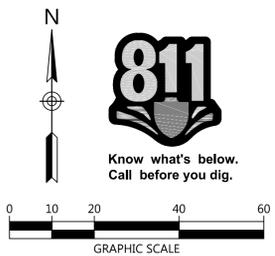


EROSION CONTROL KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1 / C3.1
EC2	SILT FENCE	4 / C3.1
EC3	INLET PROTECTION	3 / C3.1

PROPOSED FEATURES LEGEND



- NOTES:
- SEE SHEET C2.0 FOR EROSION CONTROL NOTES.



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PROJECT	216013.00
LOCATION	1430 Dale Mabry Highway Lutz, FL 33548
CLIENT	Medical Center of Trinity 9330 State Road 54 Trinity, FL 34655

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CONSTRUCTION DOCUMENTS



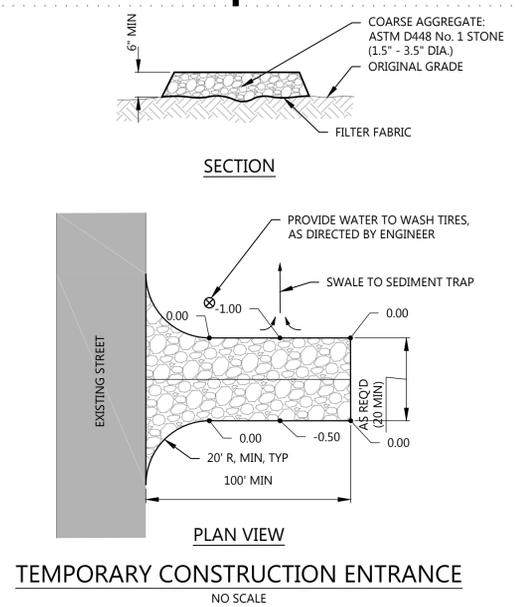
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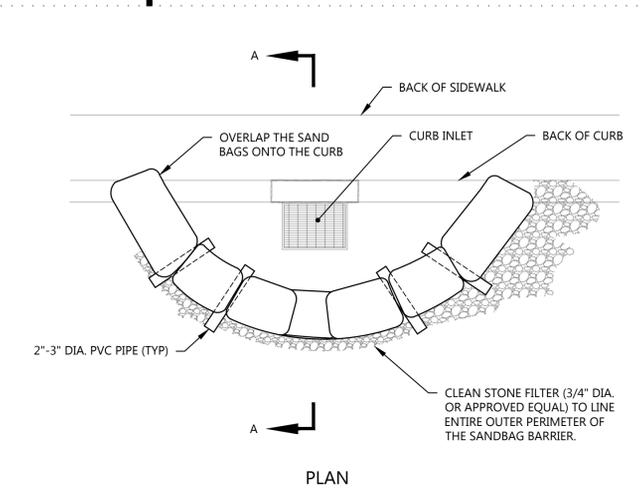
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 EROSION CONTROL PLAN

SHEET
 C3.0

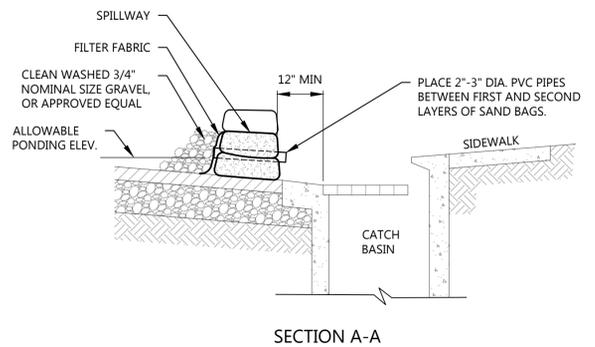
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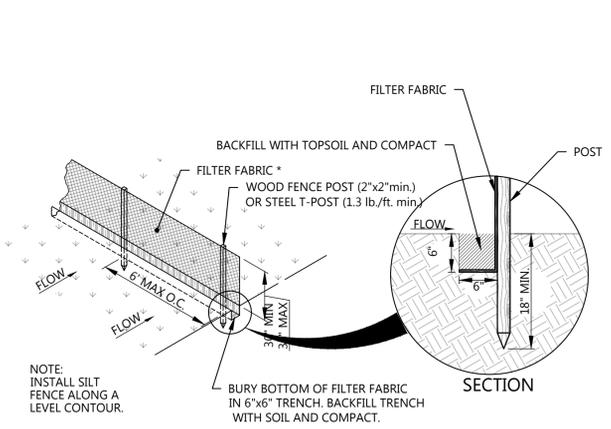
TEMPORARY CONSTRUCTION ENTRANCE
NO SCALE



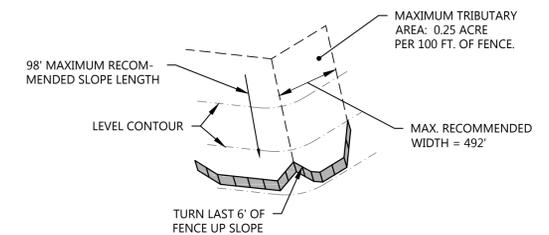
SAND BAG CURB INLET PROTECTION
NO SCALE



- NOTES:**
1. NOT APPLICABLE IN AREAS OF HIGH SILTS AND CLAYS WITHOUT USE OF FILTER FABRIC LAYER.
 2. PERIODICALLY REMOVE AND REPLACE GRAVEL. OLD GRAVEL MAY BE USED AS BACKFILL MATERIAL IF APPROVED BY THE ENGINEER.



SILT FENCE (TCP-13)
NO SCALE



SPECIFICATIONS	
Tensile Strength (Lbs. Min.) (1) (ASTM D-4632)	Warp-120 Fill -100
Elongation (%Max.) (ASTM D-4632)	40
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751)	#30
Flow Rate (Gal/Min/Sq. Ft.) (GDT-87)	25
Ultraviolet Stability (2) (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphragm Bursting Strength Tester)	175
Minimum Fabric Width (Inches)	36

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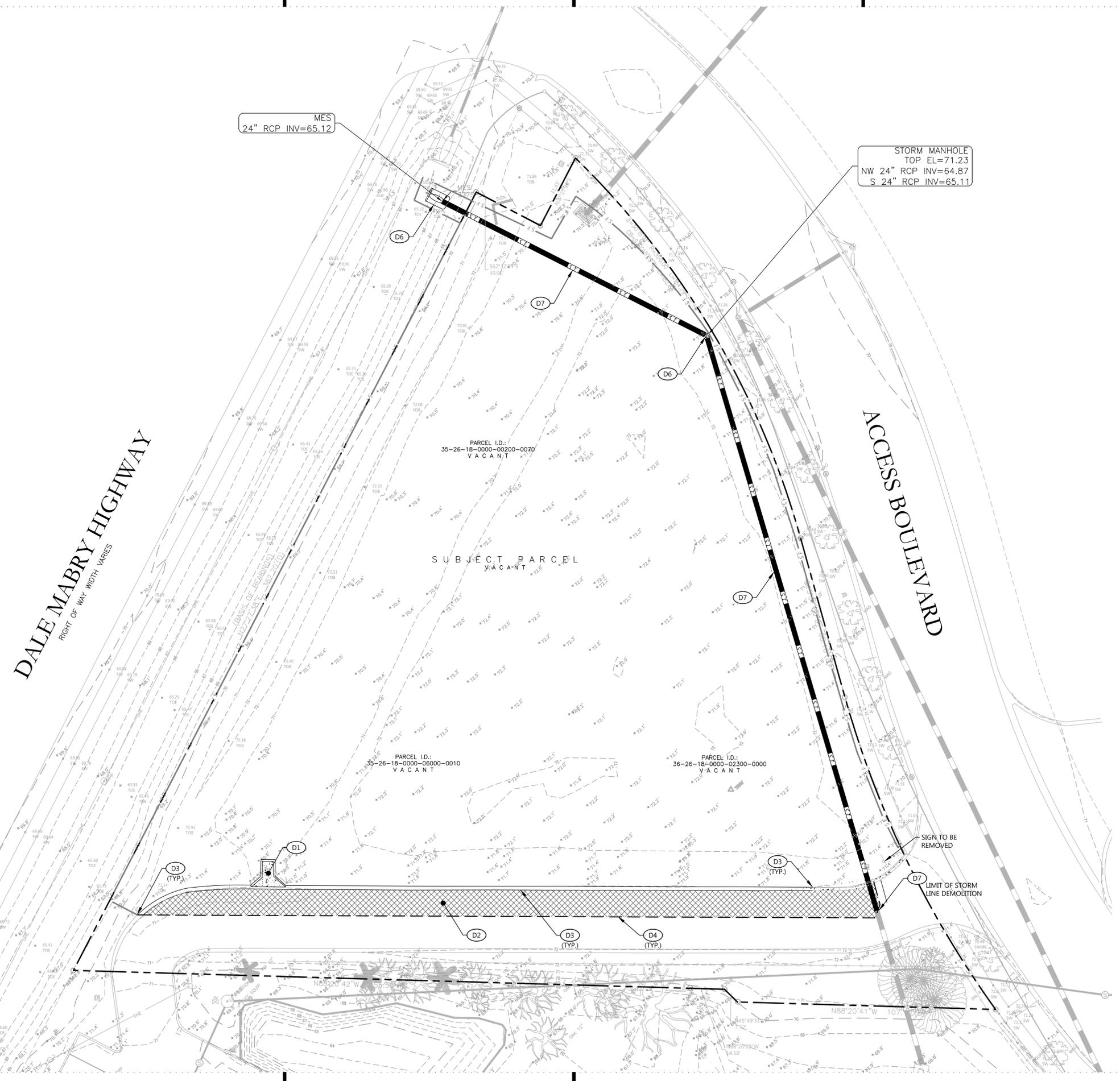
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TITLE
 EROSION CONTROL DETAILS

SHEET

C3.1

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DEMOLITION KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
D1	REMOVE EXISTING ASPHALT PAVEMENT	
D3	REMOVE EXISTING CONCRETE CURB	
D4	EVENLY SAWCUT	
D6	REMOVE EXISTING DRAINAGE STRUCTURE	
D7	REMOVE EXISTING STORM LINE	

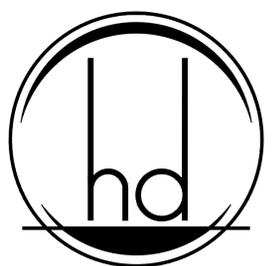
PROPOSED FEATURES LEGEND	
CONCRETE TO REMOVE	
ASPHALT PAVEMENT TO REMOVE	

NOTES:
 1. SEE SHEET C2.0 FOR DEMOLITION NOTES.

811
 Know what's below.
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 GRAPHIC SCALE

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TITLE
 DEMOLITION PLAN

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DALE MABRY HIGHWAY
 RIGHT OF WAY WIDTH VARIES

ACCESS BOULEVARD



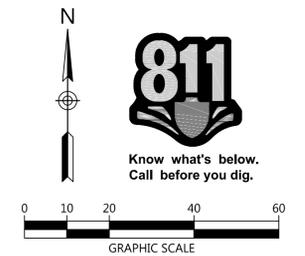
SITE LAYOUT KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
S1a	ASPHALT PAVEMENT - LIGHT DUTY	1 / C8.0
S1b	ASPHALT PAVEMENT - HEAVY DUTY	1 / C8.0
S2	CONCRETE PAVEMENT	2 / C8.0
S3b	CONCRETE POST CURB (TYPE D)	FDOT INDEX 300
S4a	CONCRETE SIDEWALK	5 / C8.0
S5	SIDEWALK JOINTS	4 / C8.0
S6	ACCESSIBLE SYMBOL	8 / C8.0
S7	ACCESSIBLE PARKING SPACE	10 / C8.0
S8a	SIDEWALK TRANSITION	11 / C8.0
S8b	WINGED RAMP	FDOT INDEX #304
S10	CONCRETE WHEELSTOP	9 / C8.0
S15	BICYCLE RACK	9 / C8.1
S18	DIRECTIONAL ARROWS	3 / C8.1
S23	PAINTED STOP BAR (2 FT)	5 / C8.1
S24	STEEL BOLLARD	6 / C8.0

SIGNAGE KEY NOTE		
CODE	DESCRIPTION	DTL #/SHT #
SG1a	ACCESSIBLE PARKING SIGN (FTP-20-06 & FTP-22-06)	7 / C8.0
SG2	ACCESSIBLE PASSENGER LOADING/UNLOADING SIGN	4 / C8.1
SG3a	"STOP" SIGN (R1-1)	1 / C8.1
SG3c	"STOP" SIGN (R1-1); "DO NOT ENTER" SIGN (R5-1) OTHER SIDE	1 / C8.1
SG3d	"EMERGENCY VEHICLES ONLY" SIGN	1 / C8.1

PROPOSED FEATURES LEGEND

BUILDING	
CONCRETE PAVEMENT	
CONCRETE SIDEWALK	
HEAVY DUTY PAVEMENT	
LIGHT DUTY PAVEMENT	
PAINTED STRIPE	
CONCRETE CURB	
CENTERLINE	
ADA ACCESSIBLE PATH	

NOTES:
 1. SEE SHEET C2.0 FOR GENERAL NOTES AND THE SITE DATA TABLE.



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CONSTRUCTION DOCUMENTS



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TITLE SITE LAYOUT PLAN

SHEET

C5.0

G:\Projects\2016\527116023\527116023\Construction\527116023_C6-0_ORLA.dwg-c6.0 Grading Plan May 10, 2016 - 11:26am ianderson
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PROPOSED FEATURES LEGEND

- STORM PIPE & INLET — ST —
- SPOT ELEVATION + 91.8
- PROPOSED CONTOUR — 90 —
- DRAINAGE STRUCTURE (C3)
- EXISTING SPOT ELEVATION + 33.14

- NOTES:
1. SEE SHEET C2.0 FOR GRADING AND DRAINAGE NOTES.
 2. ALL ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
G15	TRANSITION CURB OVER 15 FT	
G16	FLUSH CONDITION	
G20	MATCH EXISTING GRADE	

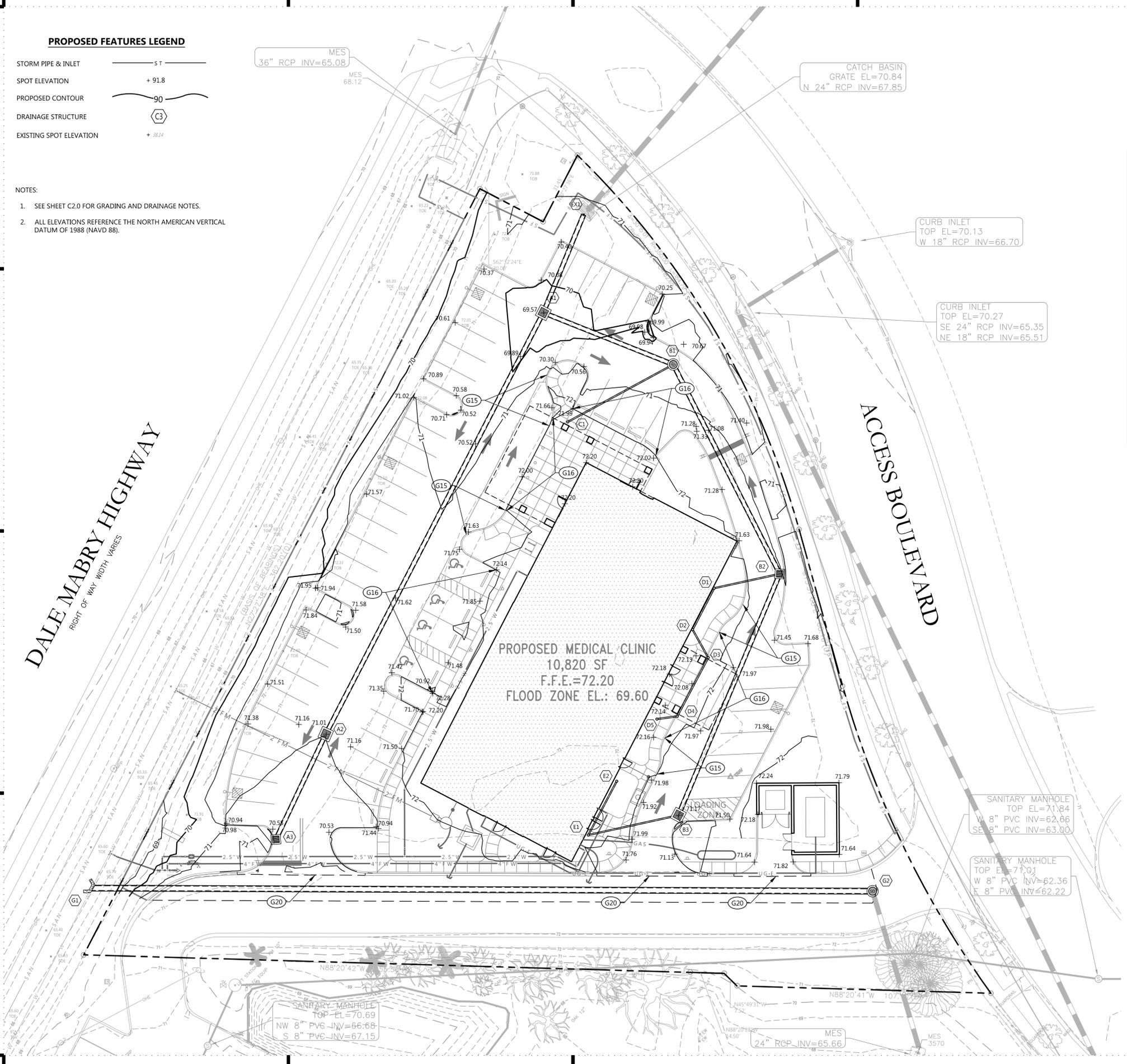
PROPOSED STORM STRUCTURE TABLE					
CODE	DESCRIPTION	TOP GRATE	STRUCTURE DEPTH	PIPE INVERT	DETAIL No.
A1	CATCH BASIN	69.65	3.71	67.94	FDOT TYPE J
A2	CATCH BASIN	71.01	4.65	68.36	FDOT TYPE C
A3	CURB INLET	70.49	2.02	68.46	FDOT TYPE C
B1	MANHOLE	70.55	4.61	67.94	FDOT TYPE 9
B2	CURB INLET	71.09	4.88	68.27	FDOT TYPE 9
B3	CATCH BASIN	71.18	4.68	68.50	FDOT TYPE C
C1	CLEANOUT / DOWNSPOUT BOOT	72.03	5.47	68.57	7 & 8 / C8.1
D1	CLEANOUT / DOWNSPOUT BOOT	72.20	5.78	68.42	7 & 8 / C8.1
D2	CLEANOUT / DOWNSPOUT BOOT	72.20	5.63	68.57	7 & 8 / C8.1
D3	CLEANOUT / DOWNSPOUT BOOT	72.08	5.41	68.67	7 & 8 / C8.1
D4	CLEANOUT / DOWNSPOUT BOOT	72.08	5.21	68.88	7 & 8 / C8.1
D5	CLEANOUT / DOWNSPOUT BOOT	72.14	5.20	68.94	7 & 8 / C8.1
E1	CLEANOUT / DOWNSPOUT BOOT	72.10	5.31	68.79	7 & 8 / C8.1
E2	CLEANOUT / DOWNSPOUT BOOT	72.12	5.14	68.98	7 & 8 / C8.1
EX1	EXISTING CURB INLET	70.84	5.7	67.85	
G1	24" MITERED END SECTION	67.87	8.39	65.12	FDOT IN. 272
G2	MANHOLE	71.49	5.91	65.58	FDOT TYPE J

PROPOSED STORM PIPE TABLE							
FROM CODE	FROM INV.	TO CODE	TO INV.	GRADE (%)	SIZE (INCHES)	LENGTH (L.F.)	TYPE
A1	67.94	EX1	67.85	0.21%	18"	44	RCP
A1	68.06	B1	67.94	0.21%	18"	59	RCP
A2	68.36	A1	67.94	0.21%	18"	199	RCP
A3	68.46	A2	68.36	0.21%	18"	49	RCP
B2	68.27	B1	68.06	0.21%	18"	99	RCP
B3	68.50	B2	68.27	0.21%	18"	110	RCP
C1	68.57	B1	68.06	1.00%	6"	51	PVC
D1	68.42	B2	68.21	0.75%	6"	28	PVC
D2	68.57	D1	68.42	0.75%	6"	20	PVC
D3	68.67	D2	68.57	0.75%	6"	13	PVC
D4	68.88	D3	68.67	0.75%	6"	28	PVC
D5	68.94	D4	68.88	0.75%	6"	9	PVC
E1	68.79	B3	68.50	0.75%	6"	39	PVC
E2	68.98	E1	68.79	0.75%	6"	26	PVC
G2	65.58	G1	65.12	0.14%	24"	329	RCP

DALE MABRY HIGHWAY
RIGHT OF WAY WIDTH VARIES

ACCESS BOULEVARD

PROPOSED MEDICAL CLINIC
10,820 SF
F.F.E.=72.20
FLOOD ZONE EL.: 69.60



N

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George B. Huddleston, III, P.E. 75608
Edward A. Browder, P.L.A. LA6666790 Florida Firm Registration No. 28050



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PROJECT
216013.00

LOCATION
1430 Dale Mabry Highway
Lutz, FL 33548

CLIENT
Medical Center of Trinity
9330 State Road 54
Trinity, FL 34655

LUTZ FSER

CONSTRUCTION
DOCUMENTS



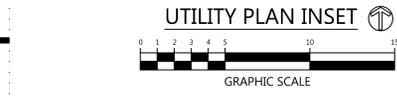
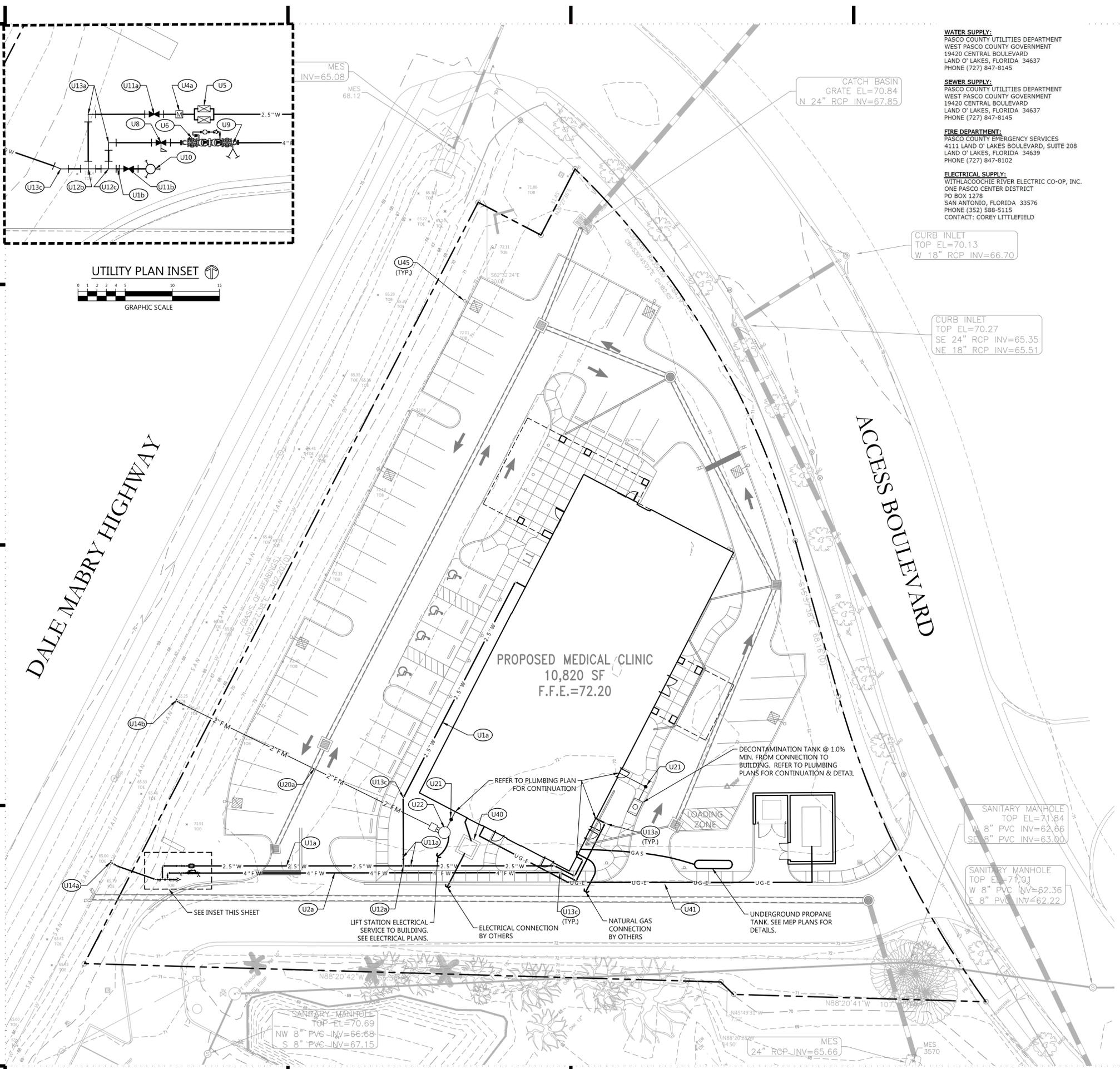
05/09/2016

DATES OF ISSUANCE

TITLE
GRADING &
DRAINAGE PLAN

SHEET
C6.0

G:\Projects\2016\52716023.dwg Construction\52716023_C7-0_U1.dwg-C7.0 Utility Plan May 10, 2016 - 11:24am ianderson
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 PASCO COUNTY UTILITIES DEPARTMENT
 WEST PASCO COUNTY GOVERNMENT
 19420 CENTRAL BOULEVARD
 LAND O' LAKES, FLORIDA 34637
 PHONE (727) 847-8145

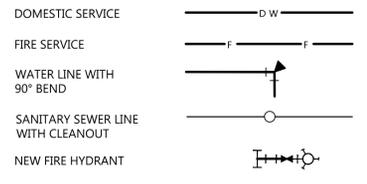
SEWER SUPPLY:
 PASCO COUNTY UTILITIES DEPARTMENT
 WEST PASCO COUNTY GOVERNMENT
 19420 CENTRAL BOULEVARD
 LAND O' LAKES, FLORIDA 34637
 PHONE (727) 847-8145

FIRE DEPARTMENT:
 PASCO COUNTY EMERGENCY SERVICES
 4111 LAND O' LAKES BOULEVARD, SUITE 208
 LAND O' LAKES, FLORIDA 34639
 PHONE (727) 847-8102

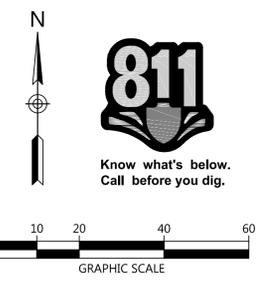
ELECTRICAL SUPPLY:
 WITHLACOOCHIE RIVER ELECTRIC CO-OP, INC.
 ONE PASCO CENTER DISTRICT
 PO BOX 1278
 SAN ANTONIO, FLORIDA 33576
 PHONE (352) 588-5115
 CONTACT: COREY LITTLEFIELD

UTILITY KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
U1a	2.5" PVC WATER LINE	DETAIL 35 & 36 / C9.0
U1b	6" PVC WATER LINE	DETAIL 35 & 36 / C9.0
U2a	4" PVC FIRE LINE	DETAIL 35 & 36 / C9.0
U4a	2" DOMESTIC WATER METER	
U5	2" PARALLEL REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLIES	DETAIL 15 / C9.1
U6	4" DOUBLE DETECTOR CHECK VALVE ASSEMBLY	DETAIL 10 / C9.1
U8	POST INDICATOR VALVE	10 / C8.1
U9	FIRE DEPARTMENT CONNECTION	
U10	FIRE HYDRANT ASSEMBLY	DETAIL 27 / C9.0
U11a	2.5" WATER VALVE	DETAIL 30 / C9.0
U11b	6" WATER VALVE	DETAIL 30 / C9.0
U12a	2.5" x 2.5" TEE	DETAIL 32 / C 9.0
U12b	6" x 2.5" TEE	DETAIL 32 / C 9.0
U12c	6" x 4" TEE	DETAIL 32 / C 9.0
U13a	90° BEND (SEE LINE FOR SIZE)	DETAIL 31 / C9.0
U13b	45° BEND (SEE LINE FOR SIZE)	DETAIL 31 / C9.0
U13c	22.5° BEND (SEE LINE FOR SIZE)	DETAIL 31 / C9.0
U14a	8" X 6" TAPPING SLEEVE & VALVE	DETAIL 37 / C9.1
U14b	2" TAPPING SLEEVE & VALVE	DETAIL 37 / C9.1
U20a	2" PVC FORCE MAIN	DETAIL 35 & 36 / C9.0
U21	SANITARY CLEANOUT	DETAIL 45 / C9.0
U22	SANITARY SEWER LIFT STATION	1 / C8.2
U40	ELECTRIC TRANSFORMER	SEE ELEC. PLANS
U41	UNDERGROUND ELECTRIC LINE	SEE ELEC. PLANS
U45	SITE LIGHTING	SEE ELEC. PLANS

PROPOSED FEATURES LEGEND



NOTES:
 1. SEE SHEET C2.0 FOR UTILITY NOTES.




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PROJECT 216013.00

LOCATION 1430 Dale Mabry Highway
Lutz, FL 33548

CLIENT Medical Center of Trinity
9330 State Road 54
Trinity, FL 34655

LUTZ FSER

CONSTRUCTION DOCUMENTS



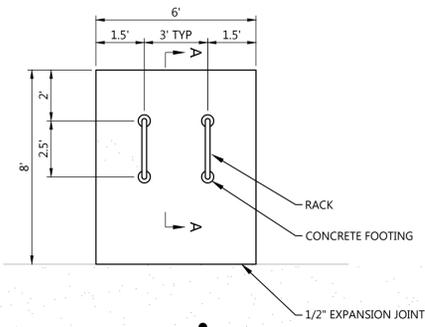
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TITLE UTILITY PLAN

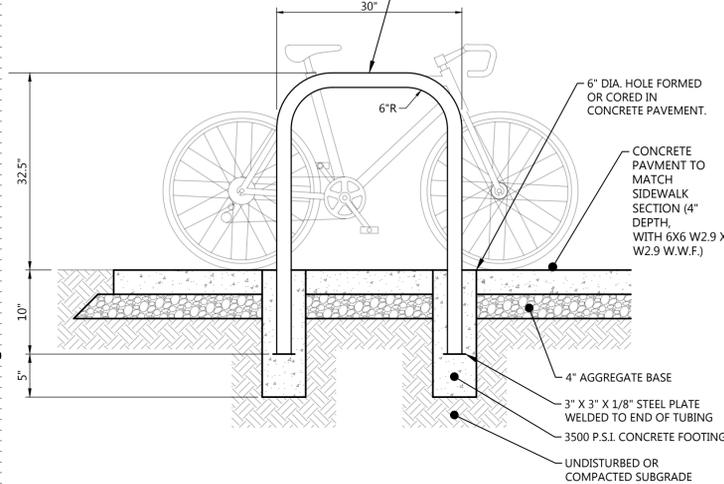
SHEET C7.0

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PLAN VIEW

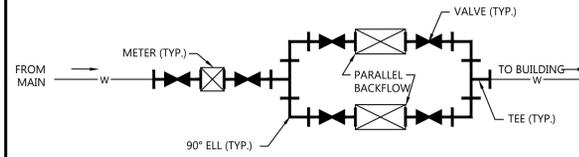
2.375" DIA. STEEL TUBING. COVER PORTION ABOVE GRADE WITH BLACK PVC COATING 1/8" THICK. PVC COATING IS NOT REQUIRED IF STAINLESS STEEL IS USED. OTHER RACK FIXTURE TYPES MAY BE USED WITH THE ENGINEER'S PRIOR APPROVAL.



SECTION "A - A"

NOTE:
DESIGN OF BICYCLE RACKS SHALL COMPLY WITH MANATEE COUNTY CODE.

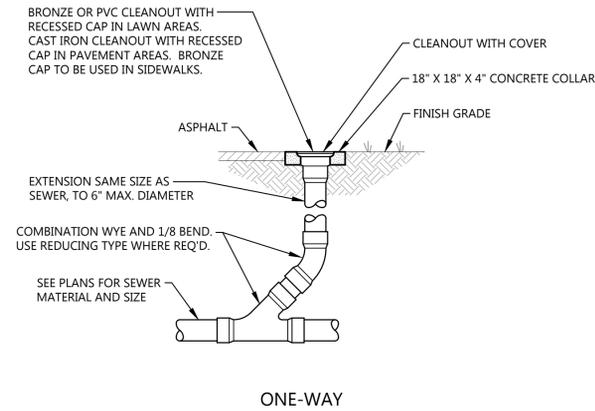
9 BICYCLE RACK WITH PAD
NO SCALE



NOTES:

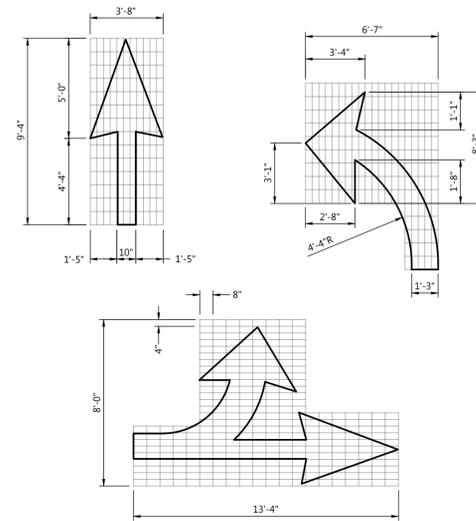
- BOTH BACKFLOWS MUST REMAIN OPEN AND OPERATIONAL THROUGHOUT THE YEAR TO PREVENT DRY ROT AND DEVICE MALFUNCTION.
- METER SHALL BE INSTALLED PER PASCO COUNTY STANDARDS

6 DOMESTIC WATER METER & BACKFLOW ASSEMBLY
NO SCALE

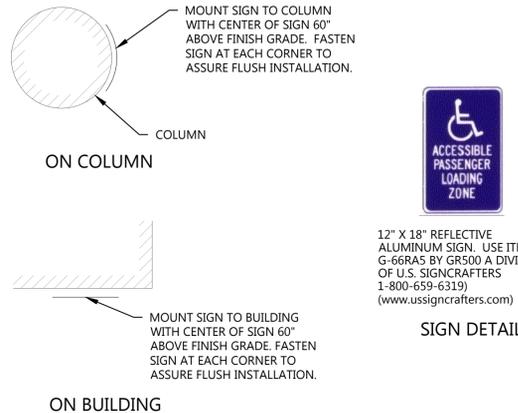


ONE-WAY

7 CLEANOUTS
NO SCALE



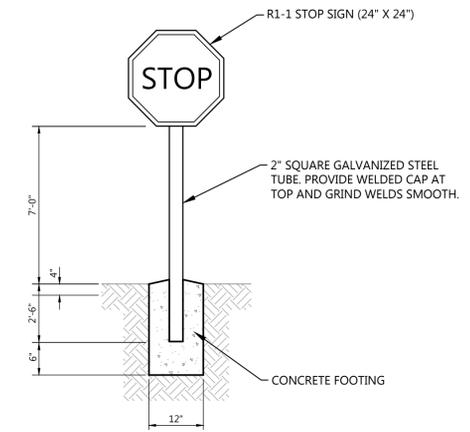
3 ROADWAY DIRECTIONAL ARROWS
NO SCALE



NOTE:

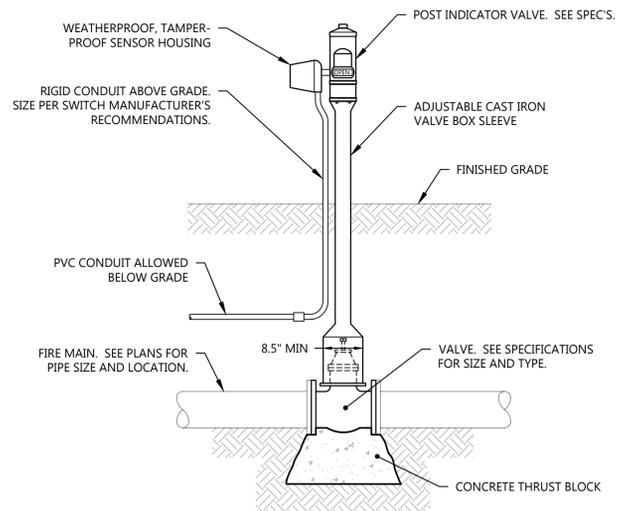
WHERE NECESSARY THE ACCESSIBLE LOADING SIGN MAY BE POST-MOUNTED IN A MANNER SIMILAR TO THE ACCESSIBLE PARKING SIGN DETAILED ELSEWHERE.

4 PASSENGER LOADING SIGN
NO SCALE

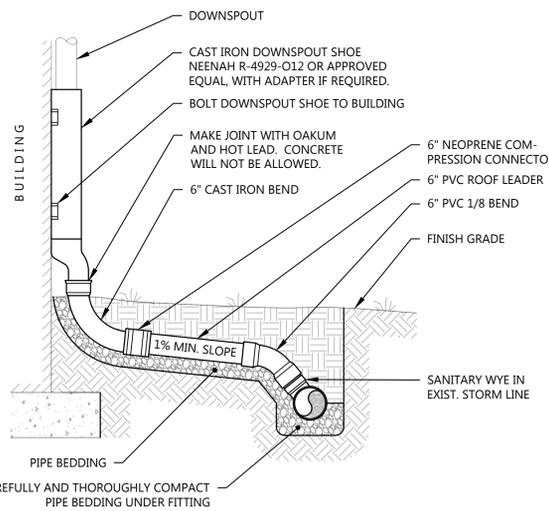


NOTE:
SIGN SHALL BE LOCATED 3' FROM THE EDGE OF THE PAVEMENT UNLESS SUCH PLACEMENT WOULD OBSTRUCT THE SIDEWALK.

1 STOP SIGN
NO SCALE

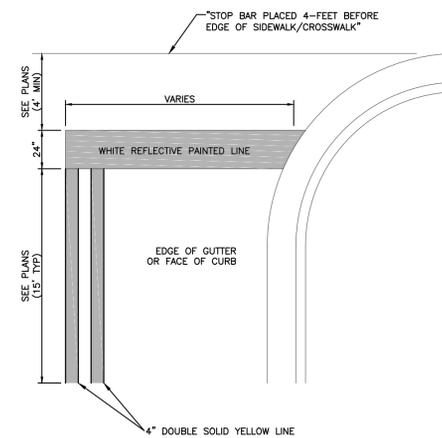


10 POST INDICATOR VALVE
NO SCALE

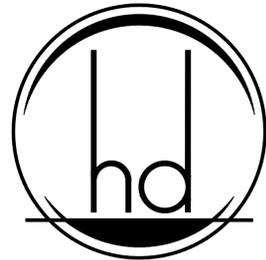


8 DOWNSPOUT COLLECTOR
NO SCALE

TO BE PER FDOT INDEX #17346



5 PAINTED STOP BAR
NOT TO SCALE



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PROJECT 216013.00

LOCATION 1430 Dale Mabry Highway
Lutz, FL 33548

CLIENT Medical Center of Trinity
9330 State Road 54
Trinity, FL 34655

LUTZ FSER

CONSTRUCTION DOCUMENTS



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TITLE DETAILS

SHEET C8.1

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1615 Edgewater Drive, Suite 200, ORLANDO, FLORIDA 32804
T 407.975.1273 F 407.975.1278 www.leainc.com
George B. Huddleston, III, P.E. 75608
Edward A. Browder, P.L.A. LA6666790 Florida Firm Registration No. 28050

RILEY & Company, Inc. (H-20 GP)

w/ BATTERY BACK-UP FOR AUDIO AND VISUAL ALARMS ©

SCOPE: Supply one complete H-20 GP Pre-Fab Lift Station, per design.
Pumps shall be capable of grinding and pumping domestic & commercial sewage.

Complete system shall be supplied by:

RILEY & Company, Inc.
Sanford, FL 32773 (Ph. 407-265-9963)

NO SUBSTITUTIONS - NO ALTERNATES

PUMPS AND ELECTRICAL CONTROL PANEL MUST BE WARRANTED FOR A MINIMUM OF 3 YEARS.

FIBERGLASS WETWELL MUST BE WARRANTED FOR A MINIMUM OF 20 YEARS.

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes A Written 20 Yr. Warranty

Certification of the wetwell H-20 load rating must be supplied with submittals. H-20 certification must be signed and sealed by an engineer registered in the State of Florida.

After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible.

PUMPS: (3 YEAR WARRANTY)

Submersible grinder pumps shall be RILEY Model RC40168 installed in the H-20 GP FRP wetwell utilizing a dual slide rail system. The grinder unit shall be capable of macerating materials normally found in domestic and commercial sewage into a fine slurry which will pass through the pump and the Sch.80 PVC discharge piping.

Stator winding shall be open type with Class F insulation and shall be heat-shrink fitted into the stator housing. The use of pins, bolts, or other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal. Two heat sensor thermostats shall be used on three phase motors.

The pump motor grinder shaft shall be AISI 430F SS threaded to take the pump impeller and the grinder impeller.

Upper & lower mechanical seals shall be Silicon Carbide vs Silicon Carbide.

DUPLEX CONTROL PANEL: (3 YEAR WARRANTY)

To insure complete unit and warranty responsibility the electrical control panel must be manufactured and built by the pump supplier. The pump supplier must be a TUV (UL508A CERTIFIED) manufacturing facility, with a minimum of 5 years history in the manufacturing of electrical control panels.

The Enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep aluminum with 4 point latching system.

The enclosure shall have external mounting feet to allow for wall mounting.

The following components shall be mounted through the enclosure:

- 1- ea. Red Alarm Beacon (Light) 4" x 4" Minimum Diameter
- 1- ea. Alarm Horn (minimum 95 DCB)
- 1- ea. Generator Receptacle w/ weatherproof cover (SCM460 -UL 1686)
- 1- ea. Alarm Silence Pushbutton

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel screws.

The following components shall be mounted to back panel:

- 2- ea. Motor Contactors
- 1- ea. Volt Monitor (1 Ph) Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
- 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)
- 1- ea. Silence Relay Module
- 1- ea. Duplex Alternator w/ Pump Selector Switch
- 1- ea. Model RCB5AH Battery Back-Up w/ Smart Charger
- 20- ea. Terminals For Field Connections
- 6- ea. Terminals For Motor Connections (Single Phase Only)
- 7- ea. Grounding Lugs
- 1- ea. Seal Failure Relay

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:

- 1- ea. Main Circuit Breaker
- 1- ea. Emergency Circuit Breaker
- 1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
- 2- ea. Short Circuit Protectors w/ Auxiliary Contacts
- 1- ea. Control Circuit Breaker
- 2- ea. Seal Failure Indicator Lights
- 1- ea. Hand-Off-Auto Selector Switches
- 2- ea. Pump Run Pilot Lights
- 1- ea. Power On Pilot Light
- 2- ea. Elapse Time Meters (Non-Resettable)
- 1- ea. GFI Duplex Convenience Outlet

COMPONENT SPECIFICATIONS:

All circuit breakers shall be molded thermal magnetic. The mechanical interlock shall prevent the normal and emergency main breakers being energized at the same time.

An emergency generator receptacle shall be supplied in accordance with DEP standards. The generator receptacle shall be adequately sized to meet the equipment operating conditions.

NEUTRAL TO BE SUPPLIED FOR BOTH 230V 3PHASE OR 230V SINGLE PHASE POWER

All motor short circuit protection devices must provide for under voltage release and class 10 overload protection on all three phases. Visible trip indication, test, and reset capability must be provided without opening inner door.

Open frame, across the line, contactors shall be rated per IEC standards and properly sized per the motor requirements. Contactors shall provide for safe touch power and control terminals.

Lighting Arrestor shall meet UL1449 3rd Edition or exceed the requirements of ANSI/IEEE Std. C62.21-1984 section 8.6.1. and 8.7.3 shall be supplied by electrician and mounted on the bottom side of the switch disconnect ahead of the pump control panel.

A voltage monitor shall be supplied for single phase service. A phase monitor shall be supplied for (3) phase service.

A green pilot light shall be supplied for each motor. The pilot light shall illuminate each time the motor is called to run. Each pump shall have an Elapse Time Meter to record the accumulated run time. The ETM shall be 2" diameter, non-resettable, six digit, totally encapsulated unit.

A red pilot light shall be supplied for control power. The pilot light shall illuminate when the control power is available inside the control panel.

Relays shall be ice-cube plug in type. Relay contacts shall be rated 10 amp minimum, DPDT.

Twenty (20) terminals shall be supplied for field connections. The terminals shall be rated 25 amps minimum.

Each motor over-temperature contact shall be connected to the terminal strip and shall open a contact to de-energize the appropriate motor upon a high temperature within the motor.

A 15 Amp GFI duplex receptacle shall be supplied and mounted on the innerdoor.

Ground lugs shall be supplied and appropriately sized for each motor and for service entrance.

MISCELLANEOUS: All wiring on the back panel shall be contained within the wiring duct. All wiring between the inner door and the back panel shall be contained within a plastic spiral wrap. Each wire shall have a wire number at each end to correspond to the as built drawing for field troubleshooting.

The control panel must be manufactured in-house by lift station supplier and be a TUV (UL508A Certified) facility.

FASTENERS & APPURTANCES: All fasteners, lifting cables, float cable bracket, hinges, and appurtenances shall be made of AISI 304SS.

A 304SS slide/latch assembly shall be provided for holding the doors open on the wetwell and valve box. Slide rails shall be made of SCH.40 AISI 304SS pipe. Pump lifting cables shall be made of AISI 304 SS. Pump lifting bales shall be made of AISI 304 SS.

H-20 LOAD RATED WETWELL WITH LIFTING LUGS:

The fiberglass wetwell must be H-20 load rated with integral lifting lugs, fiberglass slope in bottom of wetwell and valve box. Certification of the H-20 load rating must be supplied at the time of submittals to Engineer. The wetwell shall be manufactured of fiberglass reinforced polyester (FRP) of depth and diameter as shown on the lift station elevation detail. The wall thickness shall be adequate for the depth of the wetwell to maintain the H-20 LOAD RATING.

EXECUTION:

Installation shall be in strict accordance with the manufacturer's recommendations in the locations shown on the drawing.

INSPECTION & TESTING: A factory representative shall be provide for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance of complete system.

Megger the motors. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump motor/cable is intact. The pump controls and pumps shall be checked for mechanical reliability and proper operation.

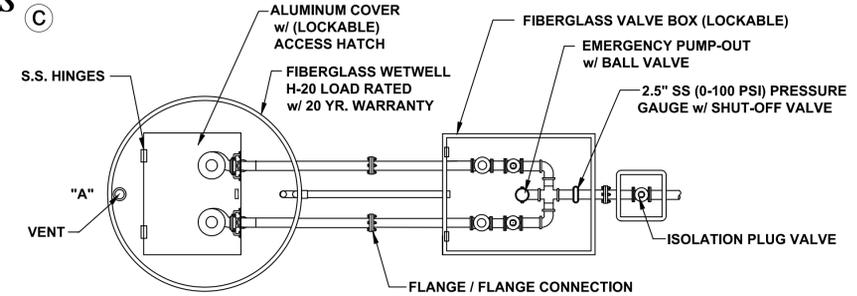
LIFT STATION WILL BE PRIVATELY OWNED AND MAINTAINED.

PUMP DATA		ELEVATIONS	
PRIMARY PUMP CAPACITY	80 GPM	TOP OF WETWELL	72.50
PRIMARY TDH	115 'TDH	INLET INVERT	67.00
PUMP MANUFACTURER	RILEY	HIGH LEVEL ALARM (HLA)	66.50
PUMP MODEL #	RC40168	2nd PUMP ON (LAG)	66.00
R.P.M.	3450	1st PUMP ON (LEAD)	65.00
HORSEPOWER	6.80	PUMPS OFF (OFF)	64.00
ELECTRICAL/ VOLTS / PHASE	230V/3	BOTTOM OF WETWELL	61.50
PUMP DISCHARGE SIZE	2"	WETWELL DIAMETER	60"

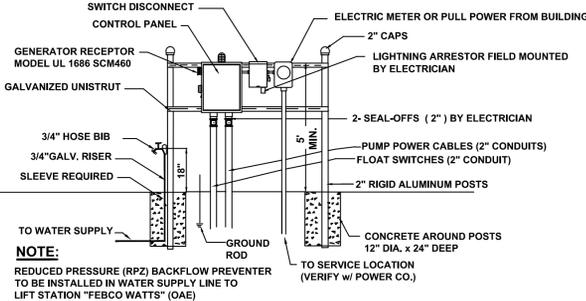
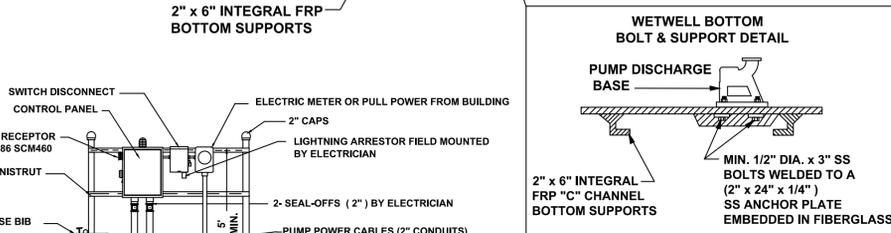
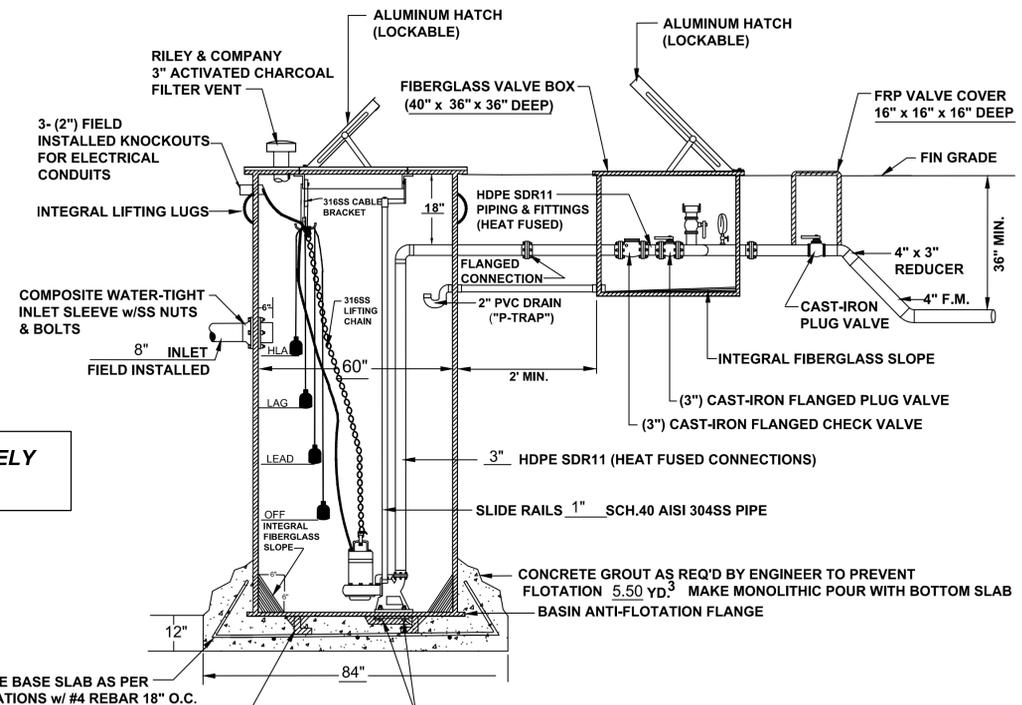
*** ELECTRICIAN NOTES:**

1. DRAWING NOT TO SCALE
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES
3. ELECTRICIAN SHALL SEAL OFF CONDUIT RUNS
4. ELECTRICIAN TO MOUNT LIGHTNING ARRESTOR AT SWITCH DISCONNECT
5. CONTRACTOR SHALL VERIFY POWER SOURCE PRIOR TO ORDERING EQUIPMENT
6. NEUTRAL TO BE SUPPLIED FOR 230V-3 PHASE OR 230V-SINGLE PHASE POWER.

RILEY & CO. / H-20 GP 05-09-16



NOTE: PUMP CONTROL PANEL SHALL BE LOCATED 3 FEET FROM WETWELL PERIMETER AT POINT "A"



ELECTRICAL RISER FOR ILLUSTRATION PURPOSES ONLY



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PROJECT 216013.00

LOCATION 1430 Dale Mabry Highway
Lutz, FL 33548

CLIENT Medical Center of Trinity
9330 State Road 54
Trinity, FL 34655

LUTZ FSER

CONSTRUCTION DOCUMENTS



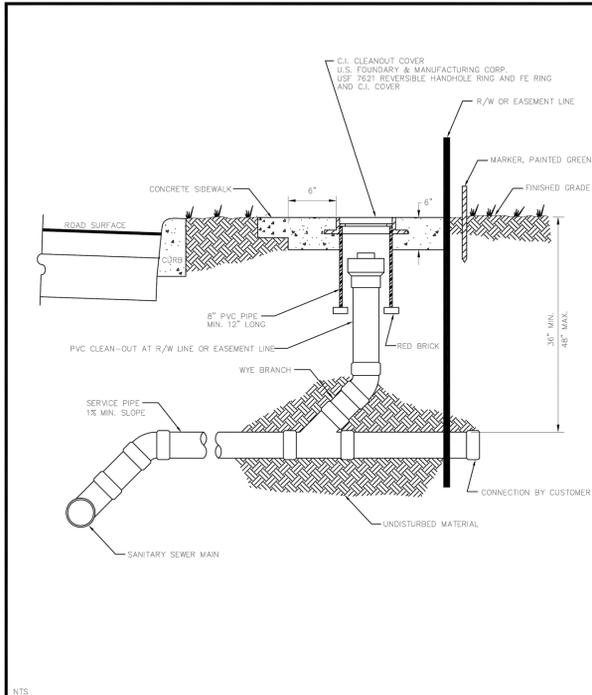
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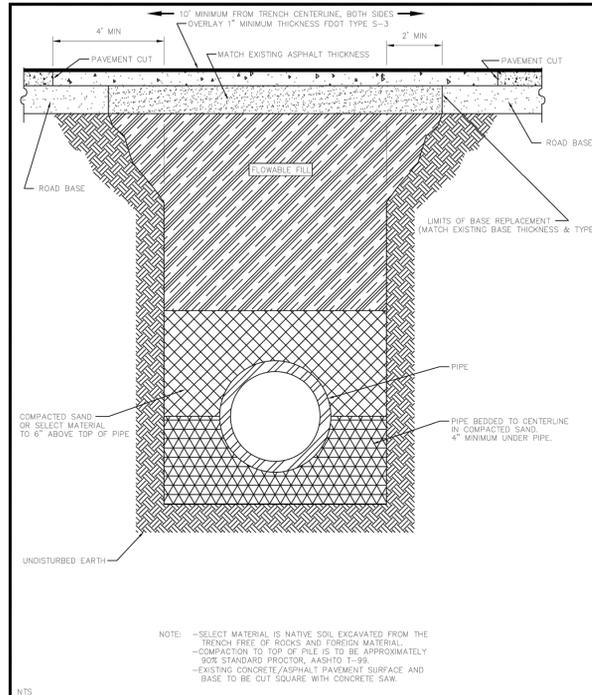
TITLE LIFT STATION DETAIL

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C:\Projects\2016\527116023\Construction\527116023_C8-0_DET.dwg - C8.0 County Details May 09, 2016 - 2:46pm cvo
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CREATED	02/24/03	SANITARY SEWER - SINGLE WYE CONNECTION AND TYPICAL CLEAN-OUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 45



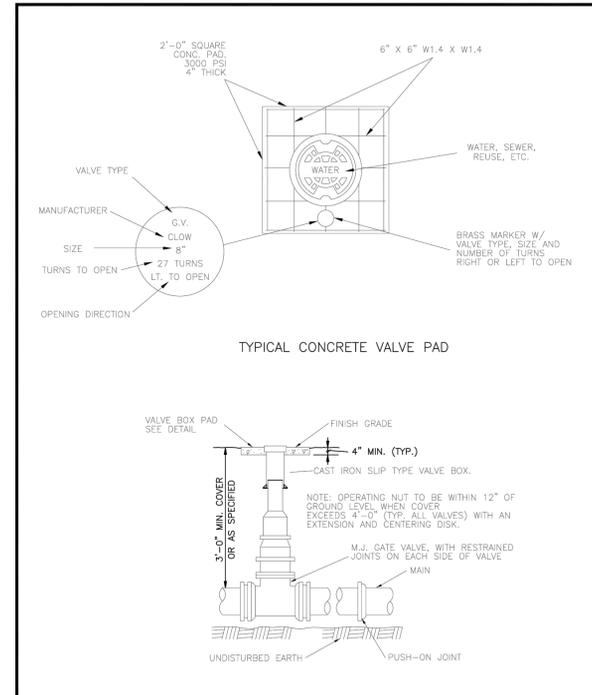
CREATED	03/06/03	PIPE LAYING CONDITIONS FLOWABLE FILL BACKFILL STANDARD EXISTING PAVED AREAS & ROADWAYS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 36

PIPE RESTRAINT LENGTHS IN FEET TEES (BRANCH SIDE)

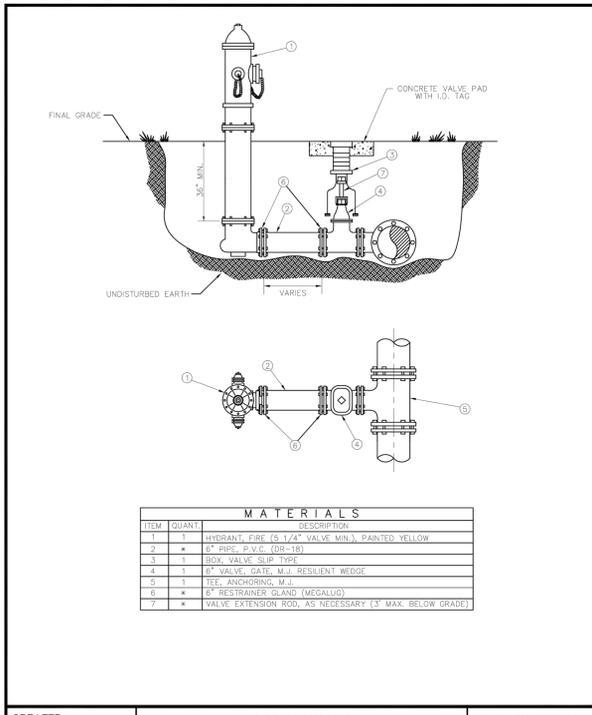
		WATER MAINS - TEST PRESSURE 150 PSI								
		BRANCH SIZE								
		3"	4"	6"	8"	10"	12"	16"	20"	24"
RUN SIZE	3"	6'	14'	30'	—	—	—	—	—	—
	4"	2'	11'	28'	44'	—	—	—	—	—
	6"	1'	2'	22'	40'	52'	—	—	—	—
	8"	1'	1'	16'	35'	48'	62'	—	—	—
	10"	1'	1'	10'	30'	44'	58'	83'	—	—
	12"	1'	1'	3'	25'	40'	55'	80'	103'	—
	16"	1'	1'	1'	14'	31'	48'	75'	98'	119'
	20"	1'	1'	1'	2'	22'	40'	69'	94'	116'
24"	1'	1'	1'	1'	11'	31'	63'	89'	111'	

RESTRAINT LENGTHS ARE MEASURED FROM THE CENTER LINE OF THE TEE ALONG THE BRANCH FOR THE DISTANCE INDICATED. A MINIMUM OF 5 FEET OF RESTRAINED PIPE MUST BE INSTALLED ON BOTH RUNS OF THE TEE. MEGALUG TYPE RESTRAINERS ARE REQUIRED ON ALL JOINTS.

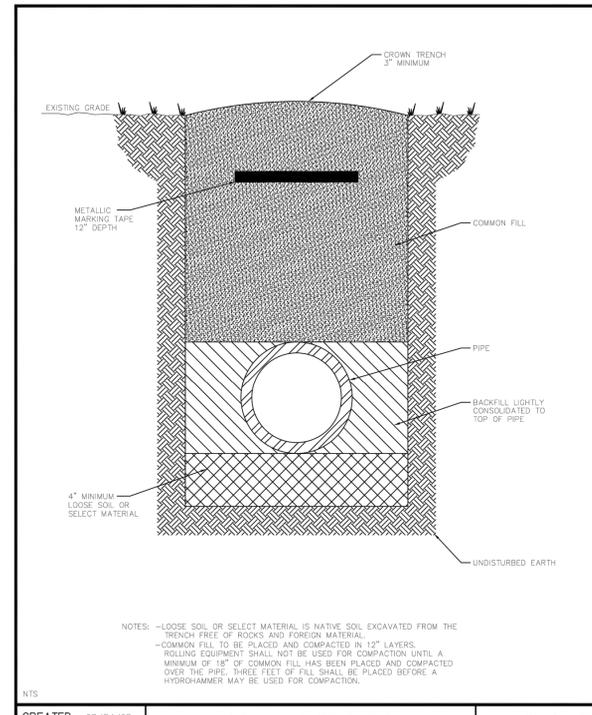
CREATED	02/24/03	RESTRAINED JOINT TABLE TEES (BRANCH SIDE)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 32



CREATED	02/24/03	VALVE BOX DETAIL SLIP TYPE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 30



CREATED	02/24/03	FIRE HYDRANT PERPENDICULAR TO THE MAIN	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 27



CREATED	02/24/03	PIPE LAYING CONDITIONS STANDARD UNPAVED AREAS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 35

PIPE RESTRAINT LENGTHS IN FEET COMMON FITTINGS

		WATER MAINS - TEST PRESSURE 150 PSI					
		FITTING TYPE					
		11-1/4°	22-1/2°	45°	90°	DEAD END	
PIPE SIZE	4"	2'	4'	8'	20'	45'	
	6"	3'	6'	12'	28'	63'	
	8"	4'	7'	15'	36'	82'	
	10"	4'	9'	18'	43'	98'	
	12"	5'	10'	21'	50'	116'	
	16"	6'	13'	26'	63'	148'	
PIPE SIZE	20"	7'	15'	31'	76'	179'	
	24"	9'	17'	36'	87'	208'	
			FORCE MAINS - TEST PRESSURE 100 PSI				
			FITTING TYPE				
			11-1/4°	22-1/2°	45°	90°	DEAD END
	PIPE SIZE	4"	1'	3'	6'	13'	30'
6"		2'	4'	8'	19'	42'	
8"		2'	5'	10'	24'	55'	
10"		3'	6'	12'	29'	66'	
12"		3'	7'	14'	34'	77'	
16"		4'	8'	18'	42'	99'	
PIPE SIZE	20"	5'	10'	21'	50'	119'	
	24"	6'	11'	24'	58'	139'	

RESTRAINT LENGTHS ARE MEASURED FROM THE CENTER LINE OF THE FITTING ALONG THE PIPE IN BOTH DIRECTIONS (EXCEPT DEAD ENDS).

CREATED	02/24/03	RESTRAINED JOINT TABLE COMMON FITTINGS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 31



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CONSTRUCTION DOCUMENTS

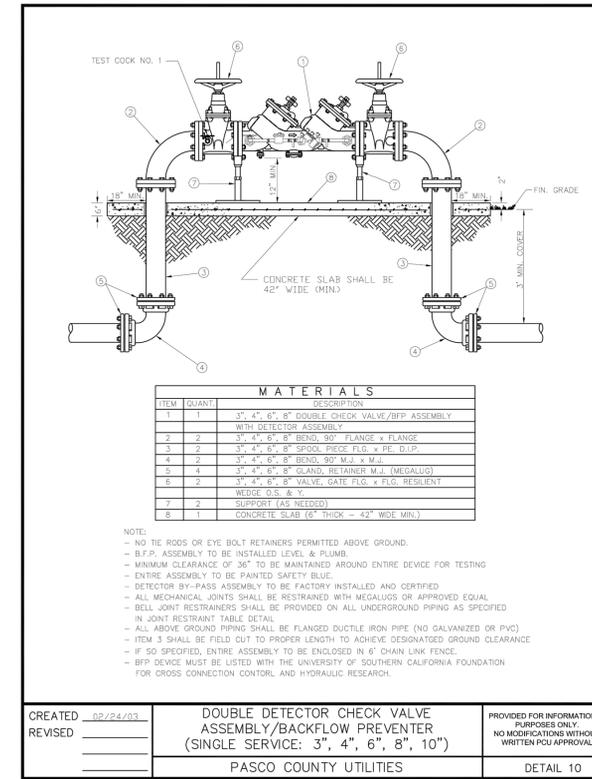
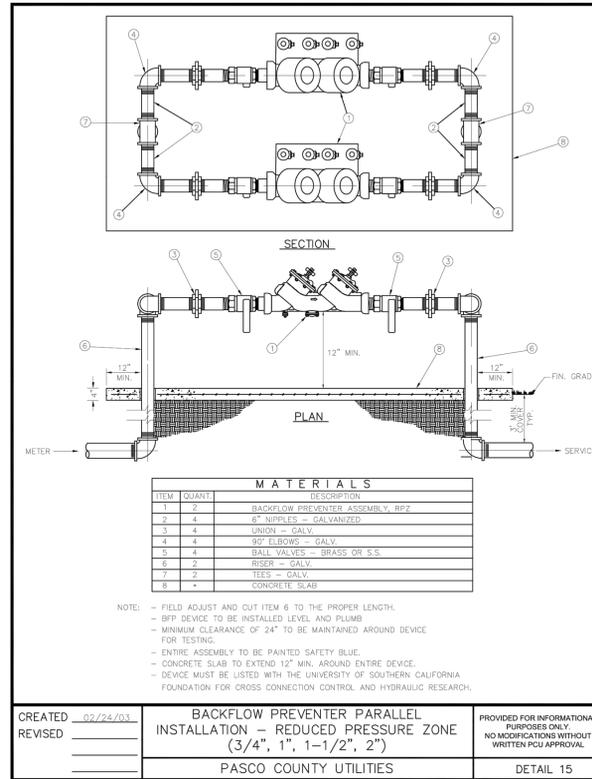
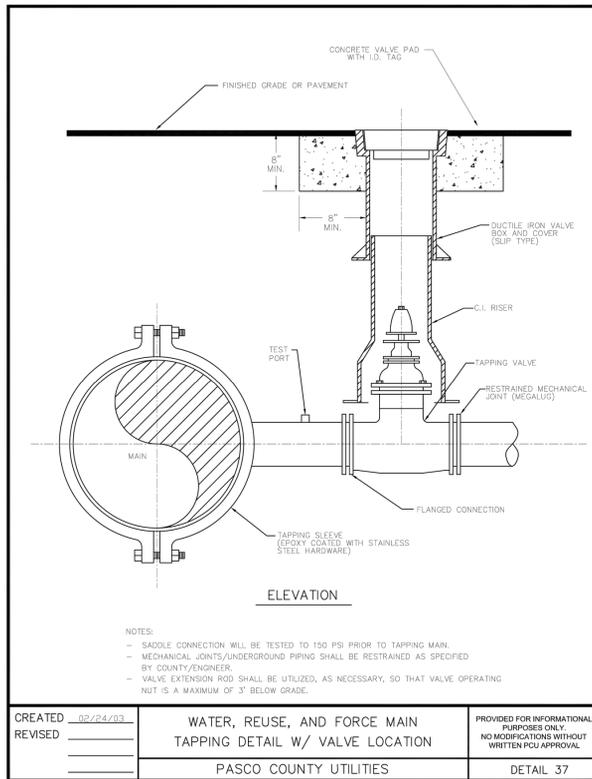
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COUNTY DETAILS

C9.0

SHEET TITLE



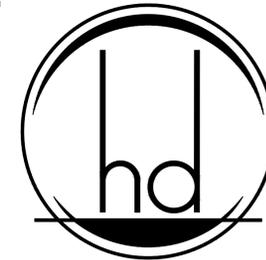
PASCO COUNTY STANDARD FIRE PROTECTION NOTES

- ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51.
- FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
- PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.31.3: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
- PER NFPA-1, 18.3.4.1: CLEARANCE OF 7 1/2 FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4-FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.
- GATED ENTRIES REQUIRE A SIREN OPERATING SYSTEM OR A 3M OPTICOM SYSTEM FOR EMERGENCY ACCESS.

PASCO COUNTY LANDSCAPING STANDARD NOTES (PASCO LDC 905.2)

- MAINTENANCE RESPONSIBILITY. THE COUNTY IS NOT RESPONSIBLE FOR MAINTENANCE OF ANY LANDSCAPING UNLESS APPROVED THROUGH A COUNTY MAINTENANCE AGREEMENT. (LDC 905.2-C.1.A)
- CLEAR-SIGHT TRIANGLE. WHERE A DRIVEWAY/ACCESSWAY INTERSECTS A ROAD RIGHT-OF-WAY OR WHERE TWO (2) ROAD RIGHTS-OF-WAY INTERSECT, VEGETATION, STRUCTURES, AND NON-VEGETATIVE VISUAL SCREENS SHALL NOT BE LOCATED SO AS TO INTERFERE WITH THE CLEAR-SIGHT TRIANGLE AS DEFINED IN THIS CODE OR THE FLORIDA DEPARTMENT OF TRANSPORTATION, MANUAL OF UNIFORM MINIMUM STANDARDS, MOST RECENT EDITION (GREEN BOOK), WHICHEVER IS MORE RESTRICTIVE. (LDC 905.2-C.1.B)
- SUSTAINABLE PRACTICES. LANDSCAPING SHALL BE INSTALLED SO THAT LANDSCAPING MATERIALS MEET THE CONCEPT OF RIGHT MATERIAL/RIGHT PLACE. INSTALLED TREES AND PLANTS SHALL BE GROUPED INTO ZONES ACCORDING TO WATER, SOIL, CLIMATE, AND LIGHT REQUIREMENTS. PLANT GROUPINGS BASED ON WATER REQUIREMENTS ARE DROUGHT TOLERANT, NATURAL, AND OASIS. (LDC 905.2-C.1.C)
- DIVERSITY. A MAXIMUM OF 50 PERCENT OF THE PLANT MATERIALS USED, OTHER THAN TREES, MAY BE NON-DROUGHT TOLERANT. A MINIMUM OF 30 PERCENT OF THE PLANT MATERIALS, OTHER THAN TREES AND TURFGRASS, USED TO FULFILL THE REQUIREMENTS OF THIS SUBSECTION SHALL BE NATIVE FLORIDIAN SPECIES, SUITABLE FOR GROWTH IN THE COUNTY. (LDC 905.2-C.1.D)
- DIVERSITY. NO ONE PLANT SPECIES OF SHRUBS OR GROUND COVER PLANTS, EXCLUDING TURFGRASS, SHALL CONSTITUTE MORE THAN 25 PERCENT COVERAGE OF THE OVERALL LANDSCAPE AREA. (LDC 905.2-C.1.D.5)
- QUALITY. ALL PLANT MATERIALS SHALL BE FLORIDA NO. 1 GRADE PER "GRADES AND STANDARDS FOR NURSERY PLANTS," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES (FDACS), WHICH IS INCORPORATED HEREIN BY REFERENCE. (LDC 905.2-C.2.A)
- AVOID EASEMENTS. TREES SHALL NOT BE PLANTED WITHIN ANY EASEMENT SO AS TO INTERFERE WITH THE USE OF THAT EASEMENT, NOR UNDER ANY PRESENT OR PLANNED OVERHEAD UTILITY, NOR IN ANY RIGHTS-OF-WAY WITHOUT COUNTY APPROVAL THROUGH THE ASSOCIATED REVIEW PROCESS. (LDC 905.2-C.3.C)
- MULCH SHALL BE USED IN CONJUNCTION WITH LIVING PLANT MATERIALS SO AS TO COVER EXPOSED SOIL. MULCH SHALL BE INSTALLED TO A MINIMUM DEPTH OF THREE (3) INCHES. THE MULCH SHOULD NOT BE PLACED DIRECTLY AGAINST THE PLANT STEM OR TREE TRUNK. MULCH SHALL NOT BE REQUIRED FOR ANNUAL BEDS. STONE OR GRAVEL MAY BE USED TO COVER A MAXIMUM OF 20 PERCENT OF THE LANDSCAPED AREA. (LDC 905.2-C.3.D)
- QUALITY PRACTICES. ALL LANDSCAPING SHALL BE INSTALLED IN ACCORDANCE WITH STANDARDS AND PRACTICES OF THE FLORIDA NURSERY, GROWERS, AND LANDSCAPE ASSOCIATION AND THE FLORIDA CHAPTER OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE. (LDC 905.2-C.3.E)
- ALL PORTIONS OF A LOT UPON WHICH DEVELOPMENT HAS COMMENCED, BUT NOT CONTINUED FOR A PERIOD OF 30 DAYS, SHALL BE PLANTED WITH A GRASS SPECIES OR GROUND COVER TO PREVENT EROSION AND ENCOURAGE SOIL STABILIZATION. ADEQUATE COVERAGE, SO AS TO SUPPRESS FUGITIVE DUST, SHALL BE ACHIEVED WITHIN 45 DAYS. (LDC 905.2-C.3.G)
- ALL REQUIRED LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY CONDITION IN PERPETUITY IN ACCORDANCE WITH THIS CODE. (LDC 905.2-E.2)
- ONGOING MAINTENANCE TO PREVENT THE ESTABLISHMENT OF PROHIBITED EXOTIC SPECIES IS REQUIRED. (LDC 905.2-E.4)

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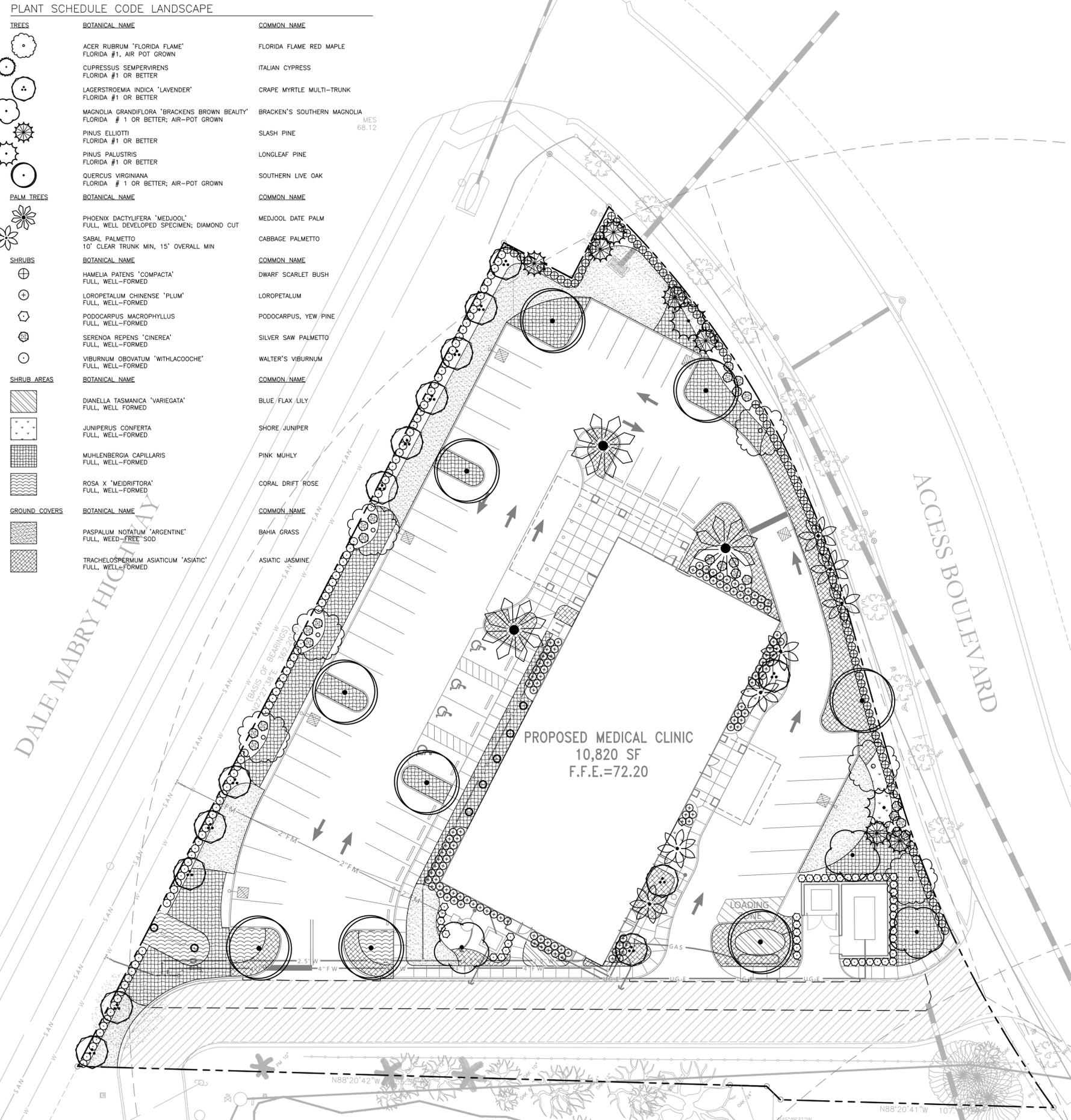
SHEET

C9.1

C:\Projects\2016\527116023\Construction\527116023_L1-0_LAN.dwg-1.0 Landscape Plan May 09, 2016 - 2:46pm cvo
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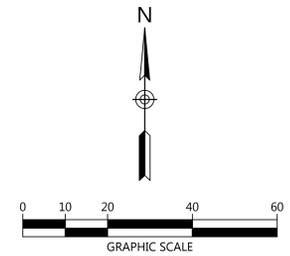
PLANT SCHEDULE CODE LANDSCAPE

TREES	BOTANICAL NAME	COMMON NAME
	ACER RUBRUM 'FLORIDA FLAME' FLORIDA #1, AIR POT GROWN	FLORIDA FLAME RED MAPLE
	CUPRESSUS SEMPERVIRENS FLORIDA #1 OR BETTER	ITALIAN CYPRESS
	LAGERSTROEMIA INDICA 'LAVENDER' FLORIDA #1 OR BETTER	CRAPE MYRTLE MULTI-TRUNK
	MAGNOLIA GRANDIFLORA 'BRACKENS BROWN BEAUTY' FLORIDA # 1 OR BETTER; AIR-POT GROWN	BRACKEN'S SOUTHERN MAGNOLIA
	PINUS ELLIOTTI FLORIDA #1 OR BETTER	SLASH PINE
	PINUS PALUSTRIS FLORIDA #1 OR BETTER	LONGLEAF PINE
	QUERCUS VIRGINIANA FLORIDA # 1 OR BETTER; AIR-POT GROWN	SOUTHERN LIVE OAK
		MES 68.12
PALM TREES	BOTANICAL NAME	COMMON NAME
	PHOENIX DACTYLIFERA 'MEDJOO' FULL, WELL DEVELOPED SPECIMEN; DIAMOND CUT	MEDJOO DATE PALM
	SABAL PALMETTO 10" CLEAR TRUNK MIN, 15" OVERALL MIN	CABBAGE PALMETTO
SHRUBS	BOTANICAL NAME	COMMON NAME
	HAMELIA PATENS 'COMPACTA' FULL, WELL-FORMED	DWARF SCARLET BUSH
	LOROPETALUM CHINENSE 'PLUM' FULL, WELL-FORMED	LOROPETALUM
	PODOCARPUS MACROPHYLLUS FULL, WELL-FORMED	PODOCARPUS, YEW PINE
	SERENOA REPENS 'CINEREA' FULL, WELL-FORMED	SILVER SAW PALMETTO
	VIBURNUM OBOVATUM 'WITHLACOOCHIE' FULL, WELL-FORMED	WALTER'S VIBURNUM
SHRUB AREAS	BOTANICAL NAME	COMMON NAME
	DIANELLA TASMANICA 'VARIEGATA' FULL, WELL FORMED	BLUE FLAX LILY
	JUNIPERUS CONFERTA FULL, WELL-FORMED	SHORE JUNIPER
	MUHLENBERGIA CAPILLARIS FULL, WELL-FORMED	PINK MUHLY
	ROSA X 'WEIDRIFTORA' FULL, WELL-FORMED	CORAL DRIFT ROSE
GROUND COVERS	BOTANICAL NAME	COMMON NAME
	PASPALLUM NOTATUM 'ARGENTINE' FULL, WEED-FREE SOD	BAHIA GRASS
	TRACHELOSPERMUM ASIATICUM 'ASIATIC' FULL, WELL-FORMED	ASIATIC JASMINE



LANDSCAPE NOTES

- The Contractor shall field verify all existing conditions and base information prior to initiating planting installation.
- Contractor shall notify all necessary utility companies 48 hours minimum prior to digging for verification of all underground utilities, irrigation and information available at the time of preparing these documents.
- Contractor shall familiarize themselves with existing site conditions prior to initiating planting.
- Unless otherwise noted, the limits of construction are the limits of work noted on the drawings.
- Report any discrepancies between the construction drawings and field conditions to the Owner's Representative immediately.
- Landscape contractor shall coordinate all work with related contractors and with the general construction of the project in order not to impede the progress of the work of others or the contractor's own work.
- The contractor shall bear all costs of testing of soils, amendments, etc. associated with the work and included in the specifications. Prior to commencement of the landscape planting work the Contractor shall provide complete soil tests for at least two on-site areas.
- All plant materials shall be in full and strict accordance with the "Florida Grades and Standards" and the project manual and specifications. Plant materials shall exceed in some instances some specifications if necessary to meet the minimum requirements of others.
- All trees shall have six feet (6') clear trunk unless otherwise specified
- All container sizes noted on plant list are minimum. Increase size if necessary to conform to plant size and specifications.
- All tree caliper sizes noted on plant list are minimum. Increase size if necessary to conform to plant size and specifications.
- Any tree with a trunk formed "V" shape crotch will be rejected.
- Typically, shrub and groundcover plantings are shown as mass planting beds. Plants shall be placed on a triangular spacing configuration (staggered spacing).
- Landscape Contractor shall field stake the location of all plant material prior to initiating installation for the review and approval of the Owner's Representative and/or Landscape Architect.
- Landscape Contractor shall field adjust location of plant material as necessary to avoid damage to all existing underground utilities and/or existing above ground elements. All changes required shall be completed at the Contractor's expense and shall be coordinated with the Owner Representative and/or Landscape Architect.
- Contractor shall mulch all new plant material throughout and completely to the depth specified.
- Any substitution in size and/or plant material must be approved by the Landscape Architect. All plants will be subject to approval by Landscape Architect and/or Owner's Representative before planting can begin.
- Contractor shall refer to landscape planting details, plant list, general notes and the project manual and specifications for further and complete landscape planting instructions.
- The Contractor shall install a root barrier on all shade trees planted within 7' of a water or sewer line per county regulations.
- Minimum clear site lines are shown at all street intersections. 18" minimum offset is required from all plantings to clear sight lines.
- All trees shown in this complete plan set must be fertilized and cared for through one year from the date of substantial completion per Lake Nona's tree maintenance specifications.
- All planting areas to have head-to-head irrigation coverage.



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 T. 407.975.1273 F. 407.975.1278 www.leainc.com
 George B. Huddleston, III, P.E. 75608
 Edward A. Browder, PLA, LA6666790 Florida Firm Registration No. 28050



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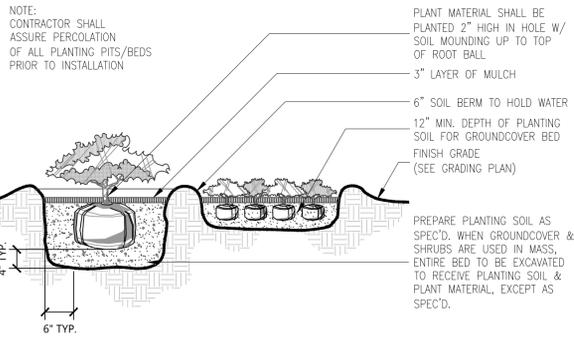
SHEET TITLE

LANDSCAPE PLAN

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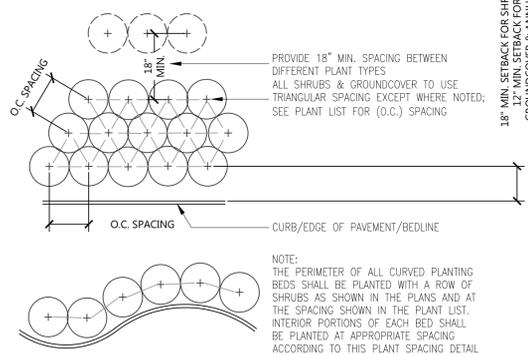
PLANT SCHEDULE CODE LANDSCAPE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CAL	SIZE	NATIVE	DROUGHT TOLERANT
	AF	6	ACER RUBRUM 'FLORIDA FLAME' FLORIDA #1, AIR POT GROWN	FLORIDA FLAME RED MAPLE	45 GAL	2.5" MIN.	10' HT. MIN	YES	YES
	CS	7	CUPRESSUS SEMPERVIRENS FLORIDA #1 OR BETTER	ITALIAN CYPRESS	25 GAL	1.5" MIN	8' HT. MIN.	NO	YES
	LL	14	LAGERSTROEMIA INDICA 'LAVENDER' FLORIDA #1 OR BETTER	CRAPE MYRTLE MULTI-TRUNK	65 GAL	4" CAL. MIN.	8' HT. MIN.	NO	YES
	MB2	3	MAGNOLIA GRANDIFLORA 'BRACKENS BROWN BEAUTY' FLORIDA # 1 OR BETTER; AIR-POT GROWN	BRACKEN'S SOUTHERN MAGNOLIA	65 GAL	3" MIN.	10' HT. MIN	YES	YES
	PE	7	PINUS ELLIOTTI FLORIDA #1 OR BETTER	SLASH PINE	45 GAL	2.5" MIN.	10' HT. MIN	YES	YES
	PP	2	PINUS PALUSTRIS FLORIDA #1 OR BETTER	LONGLEAF PINE	30 GAL	1.5" MIN	6' HT. MIN.	YES	YES
	QV	9	QUERCUS VIRGINIANA FLORIDA # 1 OR BETTER; AIR-POT GROWN	SOUTHERN LIVE OAK	65 GAL	2.5" MIN.	10' HT. MIN.	YES	YES
PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CAL	SIZE	NATIVE	DROUGHT TOLERANT
	PHO	3	PHOENIX DACTYLIFERA 'MEDJOO' FULL, WELL DEVELOPED SPECIMEN; DIAMOND CUT	MEDJOO DATE PALM	FIELD GROWN	12" CAL. MIN.	20' CT	NO	YES
	SS	7	SABAL PALMETTO 10" CLEAR TRUNK MIN, 15' OVERALL MIN	CABBAGE PALMETTO	FG. SEE PLAN FOR GW HT	12" MIN		YES	YES
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	NATIVE	DROUGHT TOLERANT	
	HPC	112	HAMELIA PATENS 'COMPACTA' FULL, WELL-FORMED	DWARF SCARLET BUSH	3 GAL	24" MIN. HT.	YES	YES	
	LP	115	LOROPETALUM CHINENSE 'PLUM' FULL, WELL-FORMED	LOROPETALUM	3 GAL	24" MIN. HT.	NO	NO	
	PM2	46	PODOCARPUS MACROPHYLLUS FULL, WELL-FORMED	PODOCARPUS, YEW PINE	3 GAL	30" HT. X 14" SPRD. MIN., STAKED	NO	YES	
	SC	24	SERENOA REPENS 'CINEREA' FULL, WELL-FORMED	SILVER SAW PALMETTO	15 GAL	28"X28" MIN.	YES	YES	
	VW	100	VIBURNUM OBOVATUM 'WITLACOOCHE' FULL, WELL-FORMED	WALTER'S VIBURNUM	3 GAL	24" MIN. HT.	YES	YES	
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	NATIVE	DROUGHT TOLERANT	
	DV	118	DIANELLA TASMANICA 'VARIEGATA' FULL, WELL FORMED	BLUE FLAX LILY	1 GAL	8-10" H	NO	YES	
	JS	200	JUNIPERUS CONFERTA FULL, WELL-FORMED	SHORE JUNIPER	1 GAL	18" O.C.	NO	YES	
	MC	803	MUHLENBERGIA CAPILLARIS FULL, WELL-FORMED	PINK MUHLY	1 GAL	14" H MIN	YES	YES	
	RM2	172	ROSA X 'MEIDRIFTORA' FULL, WELL-FORMED	CORAL DRIFT ROSE	2 GAL	12" H, 16" W	NO	NO	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	NATIVE	DROUGHT TOLERANT	
	PA	3,756 SF	PASPALUM NOTATUM 'ARGENTINE' FULL, WEED-FREE SOD	BAHIA GRASS	SOD		NO	YES	
	TA3	1,425	TRACHELOSPERMUM ASIATICUM 'ASIATIC' FULL, WELL-FORMED	ASIATIC JASMINE	1 GAL	5-6 RUNNERS, MIN.	NO	YES	



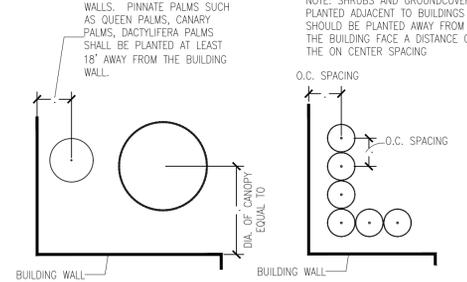
SHRUB AND GROUNDCOVER PLANTING
SCALE: NTS

1
L2.0



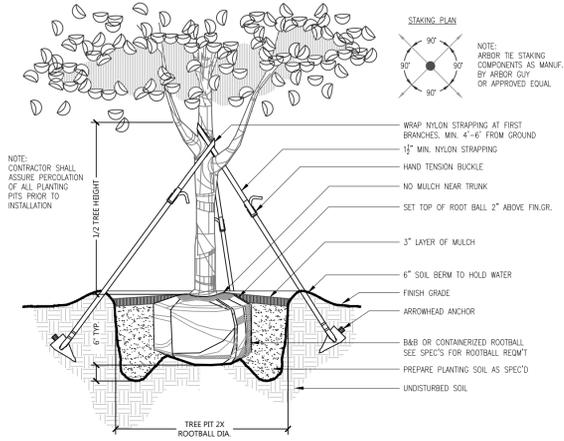
SHRUB AND GROUNDCOVER SPACING
SCALE: NTS

2
L2.0



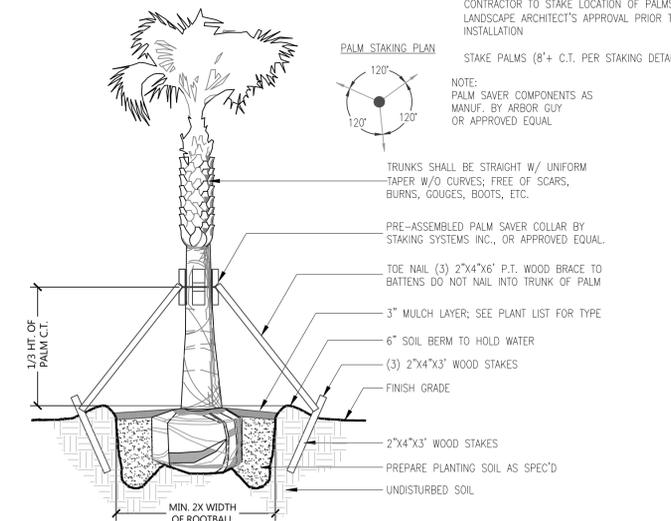
PLANTING ADJACENT TO BUILDING
SCALE: NTS

3
L2.0



TREE PLANTING DETAIL
SCALE: NTS

4
L2.0



PALM PLANTING DETAIL
SCALE: NTS

5
L2.0

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PROJECT
216013.00

LOCATION
1430 Dale Mabry Highway
Lutz, FL 33548

CLIENT
Medical Center of Trinity
9330 State Road 54
Trinity, FL 34655

LUTZ FSER

CONSTRUCTION DOCUMENTS



05/09/2016

DATES OF ISSUANCE
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TITLE
LANDSCAPE DETAILS

SHEET
L2.0

C:\Projects\2016\527116023\Construction\527116023_L1-0_LAN.dwg-L2.0 Landscape Details May 09, 2016 - 2:46pm cvo
THIS DRAWING IS THE PROPERTY OF HEREFORD DOOLEY ARCHITECTS. IT IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT. IT SHALL BE RETURNED UPON REQUEST. COPYRIGHT AS DATED HEREFORD DOOLEY ARCHITECTS. NOT VALID UNLESS SIGNED AND SEALED.

IRRIGATION NOTES

- ALL PIPE SHALL BE CLASS 200 PVC PIPE, UNLESS NOTED OTHERWISE.
- ALL WIRING AS PER LOCAL CODE.
- THE IRRIGATION SYSTEM IS DIAGRAMMATIC; ADJUSTMENTS NECESSARY IN THE FIELD SHALL BE MADE BY THE CONTRACTOR.
- ALL VALVES SHALL BE LOCATED IN VALVE BOXES FLUSH WITH GRADE AND PERPENDICULAR TO PAVED SIDEWALKS & ROADWAYS. INSTALL ONE (1) REMOTE CONTROL ZONE VALVE PER VALVE BOX ENCLOSURE.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS, ALL LOCAL CODES AND INDUSTRY STANDARDS.
- SLEEVING, PVC SCH40 PIPE, SHALL BE REQUIRED UNDER ALL WALKS AND ROADWAYS. SLEEVE SIZE SHALL BE TWICE (2X) THE SIZE OF PIPE BEING SLEEVED. (MINIMUM 3" UNLESS NOTED) INSTALL ONLY 1 ITEM PER SLEEVE. SECONDARY WIRE SLEEVING IS REQUIRED AND WIRE WILL BE INSTALLED INSIDE PIPE SLEEVE UNDER ALL PAVED CROSSINGS.
- DRAWINGS AND DETAILS SUPPLIED SHOW REQUIRED MATERIALS, OTHER MATERIALS NOT SHOWN WILL HAVE TO BE SUPPLIED AND INSTALLED BY THE IRRIGATION CONTRACTOR IN ORDER TO HAVE UPON COMPLETION A FULLY OPERATIONAL IRRIGATION SYSTEM.
- BIDDING CONTRACTORS SHOULD BECOME THOROUGHLY FAMILIAR WITH ALL ASPECTS OF THE PROPOSED IRRIGATION SYSTEM. FAILURE TO CLARIFY MISUNDERSTANDINGS, OR INTENT OF THESE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTAL OF BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE IRRIGATION CONTRACTOR SHALL LOCATE ALL UTILITIES COMMONLY ENCOUNTERED UNDERGROUND AND SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE SUCH UTILITIES. IRRIGATION CONTRACTOR WILL ALLOW A 5-FT OFFSET FROM ALL UTILITIES, DO NOT INSTALL ANY IRRIGATION EQUIPMENT WITHIN THIS 5-FT OFFSET. IT REMAINS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO RESTORE DAMAGED UTILITIES TO THEIR ORIGINAL CONDITION AT HIS OWN EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
- IRRIGATION CONTRACTOR WILL ARRANGE SITE INSPECTIONS REQUIRED BY LOCAL AGENCIES, ORDINANCES AND THESE PLANS DURING THE COURSE OF CONSTRUCTION AS REQUIRED.
- FULL AND COMPLETE 100% WATER COVERAGE IS REQUIRED. IRRIGATION CONTRACTOR SHALL MAKE ALL NECESSARY MINOR NOZZLE ADJUSTMENTS AND HEAD LAYOUT REQUIRED TO ACHIEVE FULL COVERAGE OF IRRIGATION AREAS AT NO ADDITIONAL COST TO THE OWNER.
- 24 VAC WIRE SPlicing MATERIAL WILL BE DIRECT BURIAL SPlice KIT AS MANUFACTURED BY RAIN BIRD, 3M, OR EQUIVALENT. ALL WIRE SPLICES SHALL BE MADE INSIDE A VALVE BOX AND THE LOCATION MARKED ON AS-BUILT PLANS
- IRRIGATION PIPING SHOULD BE INSTALLED SO THAT THERE IS NO DISTURBANCE TO THE CRITICAL ROOT ZONES OF EXISTING TREES.
- IRRIGATION LATERALS & MAINLINE SHOWN DIAGRAMMATICALLY FOR CLARITY. INSTALL THE PIPE NETWORK IN TURF OR LANDSCAPE AREAS SHOWN ON PLANS, SLEEVE ALL PIPE OUTSIDE LANDSCAPED AREAS.
- MAINLINE DEPTH WILL BE A MINIMUM OF 18". LATERAL LINE DEPTH WILL BE A MINIMUM 12" (SEE TRENCH DETAIL).

LIABILITY STATEMENT BY "SPRINKLER CONSULTANT®":
 THE INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH SPRINKLER CONSULTANT® AS THE IRRIGATION DESIGNER OF THIS SPRINKLER SYSTEM. THE PURPOSE OF THIS IRRIGATION PLAN IS TO PROVIDE A PHYSICAL LAYOUT OF IRRIGATION EQUIPMENT TO ASSIST THE IRRIGATION CONTRACTOR IN ACCURATELY ESTIMATING COSTS TO BID THIS SPRINKLER SYSTEM. THE DESIGN INTENT IS TO PROVIDE THE IRRIGATION CONTRACTOR WITH A DIAGRAMMATIC LAYOUT OF SPRINKLER EQUIPMENT FOR THIS PROJECT, WHICH WILL PROVIDE FULL 100% WATER COVERAGE FOR THE LANDSCAPE MATERIALS WITHIN THE SCOPE OF WORK UNDER THIS CONTRACT. PRIOR TO BIDDING THIS CONTRACT, THE IRRIGATION CONTRACTOR WILL CAREFULLY EXAMINE THESE PLANS, WILL REVIEW ALL ATTACHED MATERIAL SPECIFICATIONS AND WILL INSPECT ALL COMPONENT DETAIL ASSEMBLIES, WILL VERIFY ALL IRRIGATION MATERIAL MODEL NUMBERS, DIMENSIONS, COMPATIBILITY OF COMPONENT ASSEMBLIES, MAINLINE AND ZONE HYDRAULICS, ELECTRIC WIRE CIRCUITING AND COMPONENTS, ALL SLEEVE TYPES AND SIZES. THE IRRIGATION CONTRACTOR WILL CONFIRM IN WRITING TO THE OWNER THE WATER AND ELECTRICAL SOURCE'S, WILL VERIFY THE IRRIGATION SYSTEM P.S.I. AND G.P.M. SPECIFIED ARE AVAILABLE, WILL REVIEW ALL APPLICABLE SITE CONDITIONS, WHICH MAY ADVERSELY AFFECT EITHER THE COST OR PERFORMANCE OF THIS SPRINKLER SYSTEM. IF A CONFLICT IS FOUND THE CONTRACTOR WILL NOTIFY THE OWNER IN WRITING AND WILL NOT BID THE WORK UNLESS OR UNTIL THE OWNER HAS RESOLVED THE CONFLICT AND ISSUED IN WRITING A "NOTICE TO PROCEED". IF A CONFLICT IS FOUND AFTER THE CONTRACT HAS BEEN SIGNED THE CONTRACTOR WILL RESOLVE THE CONFLICT AT HIS OWN EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER. CHANGE ORDERS FOR SPECIFIED MATERIALS WILL NOT BE ACCEPTED FROM THE CONTRACTOR TO INCREASE THE CONTRACT AMOUNT AFTER THIS CONTRACT HAS BEEN SIGNED. ALL WIRE AND PIPE SLEEVES MAY NOT BE SHOWN, OR CALLED OUT, DUE TO LACK OF SPACE ON THESE PLANS. IT REMAINS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO INSTALL ALL SLEEVES NECESSARY UNDER ALL PAVED SURFACES FOR PIPE AND WIRE. THE 24V, LOW VOLTAGE IRRIGATION WIRING PATH, IS NOT SHOWN ON THESE PLANS, AS SITE CONDITIONS TYPICALLY CHANGE DURING CONSTRUCTION, IT REMAINS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO INSTALL ALL LOW VOLTAGE WIRING PARALLEL WITH THE MAINLINE PIPE TO EACH INDIVIDUAL REMOTE CONTROL ZONE VALVE SHOWN ON THESE IRRIGATION PLANS.

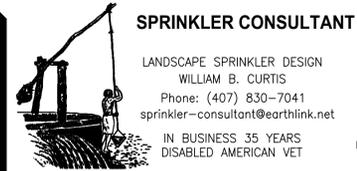
IT IS NOT EXPRESSED, IMPLIED, INTENDED OR REPRESENTED IN ANY WAY THIS IRRIGATION DESIGN IS PERFECT, THESE IRRIGATION PLANS MAY VARY FROM ACTUAL FINAL SITE CONDITIONS, AS SITE REVISIONS TYPICALLY OCCUR THROUGH-OUT SITE CONSTRUCTION. THE PLANS MAY NOT ACCOUNT FOR A COMPLETE MATERIAL LIST TO INSTALL THIS WORK AS MANUFACTURER'S MAY EITHER DISCONTINUE PRODUCTS OR CHANGE MODEL NUMBERS WITHOUT NOTICE. THE CONTRACTOR WILL BASE HIS BID PRICE FOR THIS WORK ON SUPPLYING ALL MATERIALS NEEDED TO COMPLETE THE SPRINKLER SYSTEM IN PERFECT WORKING CONDITION AND TO THE COMPLETE SATISFACTION OF THE OWNER. THESE PLANS DO NOT EXPRESS OR IMPLY IN ANY WAY ANY TYPE OF TRADE WARRANTY OR MATERIAL GUARANTEE FROM THE MANUFACTURER AND NEITHER WARRANTY NOR GUARANTEE THE FINISHED WORK OF THIS SPRINKLER SYSTEM IN ANY WAY. STARTING FROM THE DAY THE CONTRACTOR SIGNS THIS CONTRACT CONTINUING IN PERPETUITY THE IRRIGATION CONSULTANT HAVING NEITHER AFFILIATION WITH NOR ANY CONTROL OVER EITHER THE IRRIGATION CONTRACTOR OR HIS STAFF WILL BE HELD HARMLESS FOR ACTIONS OF THE CONTRACTOR AND HIS STAFF THAT MAY DAMAGE PROPERTY OR CAUSE PERSONAL BODILY INJURY. BY ACCEPTING THIS CONTRACT THE CONTRACTOR ACKNOWLEDGES HIS LIABILITY TO PAY THE FULL AMOUNT OF ANY AND ALL DAMAGE CLAIMS FILED AGAINST THE OWNER'S PROPERTY, PROPERTY ADJACENT TO THE OWNER'S PROPERTY OR FOR ANY AND ALL PERSONAL INJURIES THAT RESULT DURING OR FROM THE INSTALLATION OF OR SUBSEQUENT OPERATION OF THIS SPRINKLER SYSTEM. BY SIGNING THIS CONTRACT THE CONTRACTOR AGREES TO INDEMNIFY THE IRRIGATION CONSULTANT AND PAY ALL LEGAL FEES, FINES, COURT COSTS AND SETTLEMENTS, ANY AND ALL OTHER COSTS MENTIONED AND NOT MENTIONED HEREIN THAT MAY HAVE RESULTED FROM PROPERTY DAMAGE, PERSONAL BODILY INJURY OR ANY OTHER DAMAGE OR INJURY CAUSED DURING THE INSTALLATION OR OPERATION OF THIS SPRINKLER SYSTEM. BY SIGNING THIS CONTRACT THE CONTRACTOR ACKNOWLEDGES THAT HE HAS RECEIVED ONE ORIGINAL COPY OF THESE CONSTRUCTION DOCUMENTS, HAS READ, UNDERSTANDS AND ACCEPTS ALL THE TERMS AND CONDITIONS CONTAINED HEREIN.

LIMITED WARRANTY FROM "SPRINKLER CONSULTANT®":
 OUR WARRANTY TO OUR TRADE CLIENT IS, THIS SPRINKLER DESIGN IS GUARANTEED TO BE FREE FROM ERRORS, OMISSIONS, WILL MEET OR EXCEED CITY AND STATE CODES & WILL PROVIDE 100% WATER COVERAGE. IF A CONFLICT IS FOUND THE CONTRACTOR MUST NOTIFY THE LANDSCAPE ARCHITECT IN WRITING EXPLAINING THE ISSUE & REQUEST A REVISION TO CORRECT CONFLICTS. IF UNAUTHORIZED MATERIALS ARE INSTALLED ON THIS PROJECT IT WILL IMMEDIATELY VOID THE GUARANTEE AND REMOVE ALL LIABILITY FROM "SPRINKLER CONSULTANT". NO EXCEPTIONS ALLOWED.

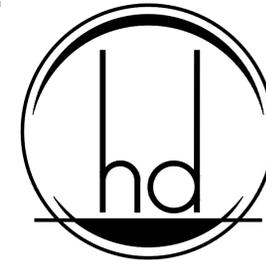
MATERIAL & SUBSTITUTIONS:
 THE IRRIGATION MATERIALS SPECIFIED ON THIS PLAN HAVE BEEN CAREFULLY SELECTED FOR QUALITY, DURABILITY, LONGEVITY AND HAVE BEEN SPECIFICALLY HYDRAULICALLY ENGINEERED FOR THIS PROJECT. CONSEQUENTLY THESE PRODUCT SPECIFICATIONS ARE NOT SUBJECT TO CHANGE AND IF UNAUTHORIZED MATERIALS ARE INSTALLED IT WILL VOID THE GUARANTEE AND LIABILITY OF THE SPRINKLER CONSULTANT ALTOGETHER. PRIOR TO STARTING THE WORK THE CONTRACTOR WILL SUBMIT TO THE OWNER CATALOG CUT SHEETS FOR ALL PRODUCTS THAT THE IRRIGATION CONTRACTOR WILL INSTALL ON THIS PROJECT. THE CONTRACTOR WILL INCLUDE ON THE MATERIAL SUBMITTAL PACKAGE THE MATERIAL DESCRIPTION, QUANTITY AND COST OF EACH ITEM TO BE INSTALLED AND THE COST OF LABOR PER EACH ASSEMBLY INSTALLED. THE CONTRACTOR WILL NOT START THE WORK UNLESS OR UNTIL THE OWNER HAS APPROVED THE MATERIAL SUBMITTAL LIST IN ITS ENTIRETY AND ISSUED A WRITTEN "NOTICE TO PROCEED". THE IRRIGATION CONTRACTOR MAY SUBMIT A WRITTEN REQUEST TO THE OWNER FOR A "MATERIAL SUBSTITUTION" ONLY IF A SPECIFIED PRODUCT (S) HAVE BECOME OBSOLETE OR HAS A LEAD TIME THAT MUST BE CONFIRMED BY THE MANUFACTURER, WHICH MUST VERIFY THE LEAD TIME WILL DELAY THE PROJECT COMPLETION DATE.

IN THE EVENT THAT A CERTAIN PRODUCT HAS BECOME OBSOLETE, OR HAS BEEN VERIFIED BY THE MANUFACTURER TO HAVE AN EXCESSIVELY LONG LEAD TIME, THE IRRIGATION CONTRACTOR WILL INCLUDE IN THE WRITTEN REQUEST FOR MATERIAL SUBSTITUTION, TO INCLUDE THE COST OF THE ORIGINAL ITEM SPECIFIED ALONG WITH THE COST OF THE ITEM BEING REQUESTED FOR SUBSTITUTION AND WILL STATE THE REASON WHY THE ITEM (S) IS BEING REQUESTED AS A SUBSTITUTION. IF THE COST OF THE PROPOSED MATERIAL FOR SUBSTITUTION IS LESS COSTLY THAN THE ORIGINAL PRODUCT SPECIFIED AND IF THE REQUEST FOR MATERIAL SUBSTITUTION IS APPROVED, THE IRRIGATION CONTRACTOR WILL DEDUCT THE AMOUNT OF THE DIFFERENCE BETWEEN THE SPECIFIED PRODUCT AND THE SUBSTITUTED MATERIAL FROM THE CONTRACT AMOUNT. IF THE COST OF THE PRODUCT BEING PROPOSED AS A MATERIAL SUBSTITUTION IS MORE COSTLY THAN THE ORIGINAL PRODUCT SPECIFIED, WITH WRITTEN APPROVAL FROM OWNER, THE IRRIGATION CONTRACTOR MAY SUBSTITUTE THE ITEM AT NO ADDITIONAL EXPENSE OR COST TO THE OWNER, I.E., THE ORIGINAL CONTRACT AMOUNT WILL NOT BE INCREASED FOR ANY REASON. THE INTENT OF THIS CONDITION IS, TO PROTECT THE INTERESTS OF THE OWNER BY ENSURING THE IRRIGATION CONTRACTOR WILL BE UNABLE TO TAKE HIGHER PROFITS BY INSTALLING LESS EXPENSIVE MATERIALS THAN PRODUCTS SHOWN ON THE ORIGINAL CONTRACT AMOUNT.

PRIOR TO COMPLETION OF THE WORK THE CONTRACTOR WILL TURNOVER TO THE OWNER ALL "ORIGINAL INVOICE'S" SO THE OWNER CAN VERIFY THE "DATE OF MATERIAL PURCHASE" TO VALIDATE THE WARRANTY TIME LIMIT FROM THE MANUFACTURER. PRODUCTS FOUND INSTALLED, WHICH WERE NOT SPECIFIED OR NOT APPROVED BY SPRINKLER CONSULTANT, AS INDICATED ON THE ORIGINAL IRRIGATION DESIGN MATERIAL LIST WILL BE ORDERED REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR AND AT NO ADDITIONAL COST TO THE OWNER; PROGRESS AND FINAL PAYMENT WILL BE WITHHELD UNLESS OR UNTIL ALL SPECIFIED PRODUCTS HAVE BEEN CORRECTLY INSTALLED. DURING OR UPON ANY SITE OBSERVATION INCLUDING THE FINAL WALK-THROUGH SITE INSPECTION, IF ANY INSTALLED PRODUCTS ARE FOUND THAT ARE NOT IN COMPLIANCE WITH THE ORIGINAL MATERIAL SPECIFICATIONS, OR HAVE NOT BEEN APPROVED IN WRITING AS ACCEPTABLE FOR SUBSTITUTION, THE IRRIGATION CONTRACTOR WILL BE ISSUED A WRITTEN NOTICE FROM THE OWNER TO, REMOVE AND REPLACE ALL SUCH UNAPPROVED MATERIALS WITH THE SPECIFIED PRODUCTS WITHIN A TWO (2) WEEK TIME PERIOD OR STAND IN BREACH OF CONTRACT. IF THE IRRIGATION CONTRACTOR FAILS TO REMOVE AND REPLACE THE UNSPECIFIED PRODUCTS WITHIN THIS TWO (2) WEEK TIME PERIOD, THE OWNER MAY IMMEDIATELY TERMINATE THIS CONTRACT AND HIRE ANOTHER IRRIGATION CONTRACTOR THAT WILL REMOVE AND REPLACE ALL SUCH PRODUCTS. ALL MONIES WITHHELD FROM THE ORIGINAL IRRIGATION CONTRACTOR, FROM EITHER PROGRESS OR FINAL PAYMENTS, WILL BECOME FORFEIT AND WILL BE PAID DIRECTLY TO THE REPLACEMENT IRRIGATION CONTRACTOR HIRED TO REMOVE AND REPLACE ALL SUCH UNSPECIFIED PRODUCTS. NO EXCEPTIONS OR ALLOWANCES WILL BE CONSIDERED TO THESE TERMS AND CONDITIONS FOR ANY REASON.



SPRINKLER CONSULTANT
 LANDSCAPE SPRINKLER DESIGN
 WILLIAM B. CURTIS
 Phone: (407) 830-7041
 sprinkler-consultant@earthlink.net
 IN BUSINESS 35 YEARS
 DISABLED AMERICAN VET



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 ARCHITECTS

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NOTE:
 THE IRRIGATION CONTRACTOR SHALL WIPE ALL EXCESS CEMENT OFF THE PIPE AND FITTINGS IMMEDIATELY AFTER CEMENTING THE PIPE, PIPE AND FITTINGS FOUND WITH EXCESS PVC CEMENT WILL ORDERED TO BE REMOVED AND REPLACED AT THE EXPENSE OF THE IRRIGATION CONTRACTOR.

NOTE:
 THE PLAN MAY NOT INCLUDE ALL MATERIALS THAT ARE NECESSARY TO COMPLETE THIS WORK. THIS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE A COMPLETE SYSTEM IN PERFECT WORKING ORDER.

SPRINKLER HEAD SPACING NOTES:
 SPRINKLER SPACING ON THIS DESIGN IS BASED ON A MAXIMUM SPACING OF 50% OF THE DIAMETER OF THE MANUFACTURER CATALOG STATED "DISTANCE OF THROW" AT A MINIMUM OF 30 PSI FOR SPRAY HEADS AND 45 PSI FOR ROTOR SPRINKLERS. SPRINKLERS FOUND SPACED BEYOND 50% OF DIAMETER WILL BE ORDERED TO BE REMOVED AND REPLACED AT THE EXPENSE OF THE IRRIGATION CONTRACTOR, NO EXCEPTIONS. DO NOT STRETCH SPRINKLER HEAD SPACING.

THE IRRIGATION CONTRACTOR WILL READ ALL SPECIFICATIONS AND WILL REVIEW ALL DETAILS ON THIS SET OF CONSTRUCTION DOCUMENTS BEFORE BIDDING THIS WORK. FAILURE TO INSTALL THE MATERIALS BASED ON THE DETAILS AND SPECIFICATIONS CAN RESULT IN THE OWNER WITH HOLDING PAYMENTS UNLESS OR UNTIL THE WORK IS INSTALLED CORRECTLY.

PROJECT **216013.00**

LOCATION
 1430 Dale Mabry Highway
 Lutz, FL 33548

CLIENT
 Medical Center of Trinity
 9330 State Road 54
 Trinity, FL 34655

LUTZ FSER

VERIFY THE FINAL LOCATION FOR THE SPRINKLER CONTROLLER WITH THE LANDSCAPE ARCHITECT, OWNER PRIOR TO INSTALLATION, EXACT LOCATION MUST BE APPROVED IN WRITING.

NOTE:
 INSTALL T. CHRISTY'S ELECTRIC WARNING TAPE 2"-4" ABOVE THE IRRIGATION WIRING CABLE INSTALLED ON THIS PROJECT.

NOTE:
 DUE TO LACK OF SPACE ON PLANS MAINLINE, LATERAL LINE'S AND ZONE VALVE (S) MAY BE SHOWN OUTSIDE PLANTER BED. CONTRACTOR WILL INSTALL ALL MAINLINE AND LATERAL LINE INSIDE PLANTER BED WHENEVER POSSIBLE, OTHERWISE SLEEVE ALL PIPE THAT CAN NOT BE INSTALLED INSIDE THE PLANTER BED.

NOTE:
 THIS PROJECT REQUIRES A 5" WATER WELL BY OTHERS WITH A 7 1/2 H.P. SUBMERSIBLE PUMP AND 480 3-PHASE ELECTRIC PROVIDED BY OWNER. THE IRRIGATION CONTRACTOR WILL COORDINATE WITH THE OWNER THIS WORK. THE IRRIGATION CONTRACTOR WILL NOT INCLUDE THE WELL OR THE PUMP STATION IN THE QUOTE.

NOTE:
 DUE TO LACK OF SPACE ON PLANS WIRE SLEEVES ARE NOT SHOWN. CONTRACTOR WILL INSTALL ALL WIRE SLEEVES, MINIMUM OF 3" SCH 40 PVC PIPE, PARALLEL WITH THE MAINLINE.

THE IRRIGATION CONTRACTOR WILL CONTACT PUMPS-N-PARTS MS. DAWN SMITH AND REQUEST AN "IRON WATER TEST". THE IRON TEST WILL DETERMINE THE TYPE OF CHEMICALS AND AMOUNT REQUIRED TO REMOVE THE IRON FROM THE IRRIGATION WATER. THE IRRIGATION CONTRACTOR WILL INCLUDE THE WATER TEST ON HIS BID FOR THIS PROJECT, BUT WILL NOT INSTALL THIS IRON REMOVAL SYSTEM.

VERIFY THE FINAL LOCATION FOR THE SPRINKLER CONTROLLER WITH THE LANDSCAPE ARCHITECT, OWNER PRIOR TO INSTALLATION, EXACT LOCATION MUST BE APPROVED IN WRITING.

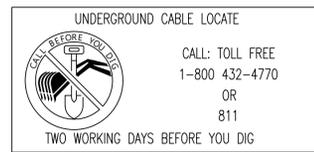
SUBMERSIBLE PUMP NOTES:
 OWNER WILL SUPPLY THE ELECTRIC POWER SUPPLY FOR THE SUBMERSIBLE WELL PUMP, 480V, 3 PHASE AND THE 120V FOR THE IRON REMOVAL INJECTION PUMP AND IRRIGATION CONTROLLER AS SHOWN ON PLANS.

ANCILLARY IRRIGATION MATERIALS REQUIRED ON PROJECT					
	EQUIPMENT DESCRIPTION	MODEL #	SIZE	MFG.	PHONE #
1.	PVC PIPE CEMENT	RED HOT BLUE	QT. OR GALLON CAN	T. CHRISTY'S	(800) 258-4583
2.	PVC PIPE PRIMER	PURPLE PRIMER	QT. OR GALLON CAN	T. CHRISTY'S	(800) 258-4583
3.	TEFLON TAPE	TEFLON-075	3/4"x520 INCHES	T. CHRISTY'S	(800) 724-6247
4.	VALVE MARKING I.D. TAGS	ID-STD-Y-2	BOTH SIDES	T. CHRISTY'S	(800) 724-6247
5.	ELECT WARNING TAPE	TA-DT-2-RE	2"x1000'	T. CHRISTY'S	(800) 724-6247
6.	EMPTY QT CEMENT CAN	RH-C32	QUART CAN	T. CHRISTY'S	(800) 724-6247
7.	SOLVENT DAUBBER	RH-D32	QUART CAN	T. CHRISTY'S	(800) 724-6247
8.	IRRIGATION EQUIPMENT MARKING FLAGS	2 1/2" x 3 1/2"	15-1/2 GA STEEL- MULTI COLORED	BLACKBURN	(800) 942-5816
9.	PVC (GLUE-ON FITTINGS)	SCH 40 & SCH 80	3/4" TO 3"	LAASCO	(800) 327-6390
10.	SWING JOINT FOR SPRAY SPRINKLER HEADS	SA-125050	1/2" MPT ENDS W/12" LAY LENGTH	RAIN BIRD	(800) 724-6247
11.	VALVE BOX 10" ROUND	VB-10RND	10" ROUND BODY & PURPLE LID	RAIN BIRD	(800) 724-6247
12.	VALVE BOX 12" STANDARD	VB-STD	12" STANDARD BODY & PURPLE LID	RAIN BIRD	(800) 724-6247
13.	VALVE BOX JUMBO (BODY AND LID)	VB-JMBP	JUMBO BODY WITH PURPLE LID	RAIN BIRD	(800) 724-6247
14.	CONTROL WIRE UL/UF, 600V (DIRECT BURIAL)	# 14 RED	14-1 UL/UF AWG SOLID WIRE	PAIGE ELECT.	(559) 431-2346
15.	COMMON WIRE UL/UF, 600V (DIRECT BURIAL)	# 14 WHITE	14-1 UL/UF AWG SOLID WIRE	PAIGE ELECT.	(559) 431-2346
16.	WIRE SPLICES GEL FILLED	DBR/Y-6	18 GA TO 12 GA	PAIGE ELECT.	(559) 431-2346
17.	FLUSH VALVE FOR DRIPLINE	# 45515	GREEN BACK BALL VALVE	ANTELCO	(407) 331 0699
18.	IRON REMOVAL EQUIPMENT	MODEL N/A	SIZED PER RID-O-RUST	RID-O-RUST	(727) 289-6448

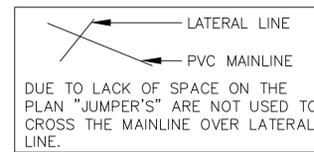
IF A CONFLICT IS FOUND THAT WILL ADVERSELY AFFECT EITHER THE PERFORMANCE OR COST TO INSTALL THIS WORK THE CONTRACTOR WILL STOP WORK AND NOTIFY THE OWNER IN WRITING AND WILL NOT PROCEED ON THIS PORTION OF THE WORK UNTIL THE OWNER HAS RESOLVED THIS CONFLICT AND NOTIFIED THE CONTRACTOR TO PROCEED.

NOTE:
 CONTRACTOR WILL INSTALL SLEEVES 2X TIMES THE SIZE OF THE DIAMETER OF THE PIPE OF THE ITEM BEING SLEEVED. INSTALL ONLY ONE ITEM PER SLEEVE. DON'T BACKFILL WITHOUT APPROVAL FROM OWNER.

NOTE:
 INSTALL ALL SPRINKLER HEADS FLUSH WITH GRADE & PERPENDICULAR WITH FINISHED GRADE. TILTED SPRINKLER'S WILL BE REJECTED.



CALL: TOLL FREE
 1-800 432-4770
 OR
 811



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 George B. Huddleston, III, P.E. 75068
 Edward A. Browder, PLA, LA6666790 Florida Firm Registration No. 28050

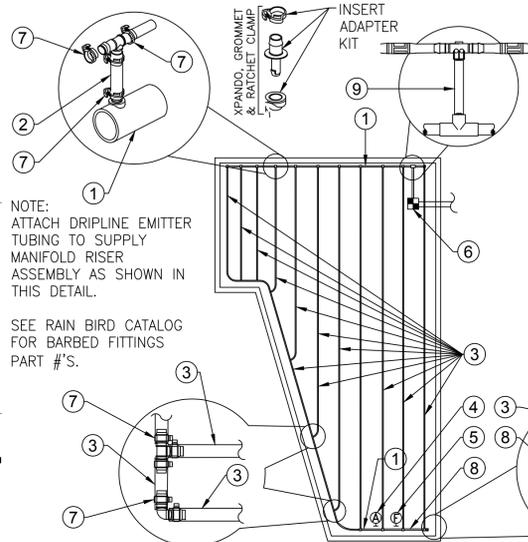
05/09/2016

DATES OF ISSUANCE
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TITLE IRRIGATION DETAILS

SHEET **12.0**

C:\Projects\2016\16203\Construction\16203_11.0_IRR.dwg-2.1 IRRIGATION DETAILS May 09, 2016 - 2:47pm cvo
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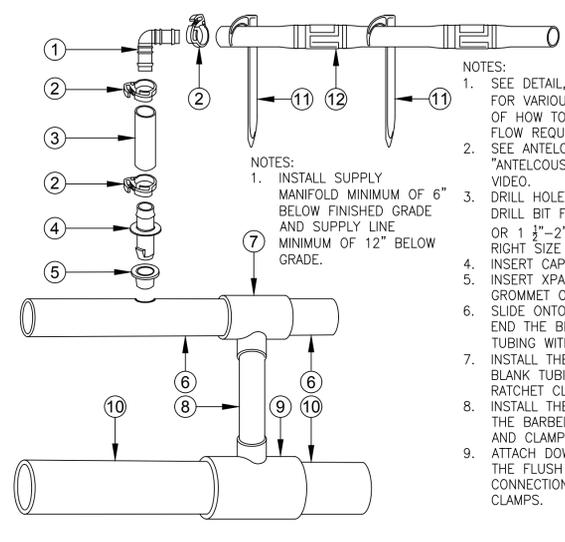


07 DRIPLINE TUBING FOR SHRUBS AND GROUND COVER AREA'S
N.T.S.

- 1 PVC SCH40 SUPPLY MANIFOLD FOR DRIPLINE.
- 2 BLANK TUBING FROM SUPPLY MANIFOLD TO DRIPLINE TUBING.
- 3 (RAIN BIRD) INLINE DRIP TUBING: SEE MATERIAL SCHEDULE FOR TYPE & SPACING.
- 4 AIR/VACUUM RELEASE VALVE
- 5 FLUSH VALVE
- 6 REMOTE CONTROL LOW VOLUME ZONE, SEE GENERAL LEGEND FOR SIZE AND TYPE.
- 7 RATCHET CLAMP, INSTALL ON ALL BARBED FITTINGS.
- 8 FLUSH MANIFOLD.
- 9 RISER ASSEMBLY, INCLUDES LATERAL LINE SERVICE TEE, SIZE PER PLAN (SxPIPT), RISER 3/4" MINIMUM SCH80 (TBE) WITH RAINBIRD BARBxFIPT TEE, #MDCF75FPT. SIZE RISER FOR SUPPLY MANIFOLD BASED ON THE FLOW REQUIREMENT, ASSEMBLIES SHOWN ARE ONLY EXAMPLES, LARGER RISER MAY BE REQUIRED.

FLOW FOR LARGER RISERS:

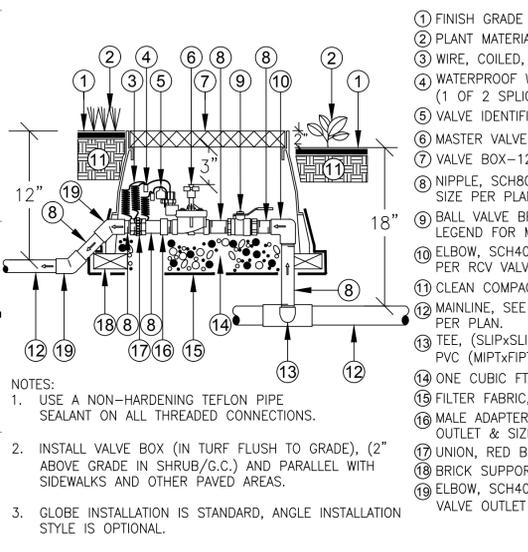
a. 3/4"	MAX FLOW 6 GPM
b. 1"	MAX FLOW 10 GPM
c. 1.5"	MAX FLOW 20 GPM
d. 2"	MAX FLOW 40 GPM



08 ANTELCO "EXPANDO" INSERT ADAPTER - FOR 1" MANIFOLD
N.T.S.

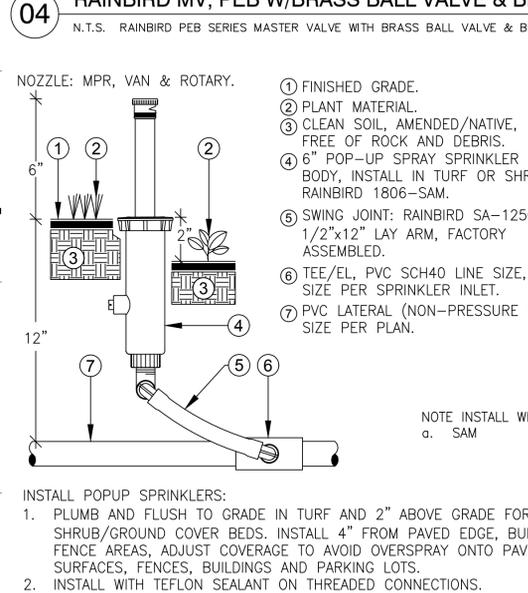
- 1 ELBOW (BARBED) 14 mm, ANTELCO PART # 47215
- 2 RATCHET CLAMP #17, ANTELCO, PT #44345.
- 3 BLANK TUBING - 17mm O.D., 14mm I.D.
- 4 MINI-XPANDO INSERT ADAPTER, 10mm x 14mm, ANTELCO, PT#45875
- 5 10mm CAPO GROMMET, ANTELCO, PT #45725.
- 6 SUPPLY MANIFOLD, 1" MIN/MAX -SCH40 PVC PIPE.
- 7 REDUCING TEE, FOR INLET MANIFOLD, SCH40 PVC, (SLIPxSLIP) SIZE PER PLAN, SIZE INLET PER RISER SIZE REQUIRED FOR FLOW.
- 8 RISER, PVC SCH 40, SIZE PER REQUIRED FLOW FOR PLANTER BED.
- 9 REDUCING TEE, SCH40 PVC, FOR SUPPLY LINE LATERAL PIPE BETWEEN PLANTER BEDS, SEE MATERIAL LEGEND FOR TYPE AND PLAN FOR SIZE, (SLIPxSLIP), SIZE OUTLET FOR RISER SIZE REQUIRED FOR FLOW.
- 10 LATERAL LINE, PVC PIPE, SUPPLY LINE FROM DRIP ZONE VALVE BETWEEN PLANTER BEDS SHOWN, SEE MATERIAL LEGEND FOR TYPE AND PLAN FOR SIZE.
- 11 ANTELCO ASTA STAKE HOLD DOWN #43615.
- 12 INLINE DRIP EMITTER TUBING, SEE MATERIAL LEGEND FOR TYPE, GPH OUTPUT, EMITTER AND ROW SPACING.

ANTELCO 13MM OR 9/16" DRILL BIT, PT #51838

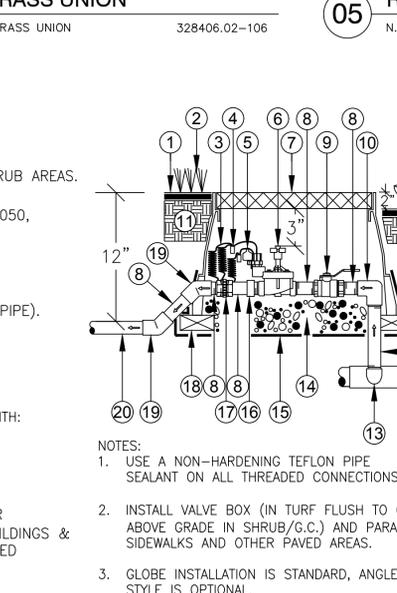


04 RAINBIRD MV, PEB W/BRASS BALL VALVE & BRASS UNION
N.T.S. RAINBIRD PEB SERIES MASTER VALVE WITH BRASS BALL VALVE & BRASS UNION 328406.02-106

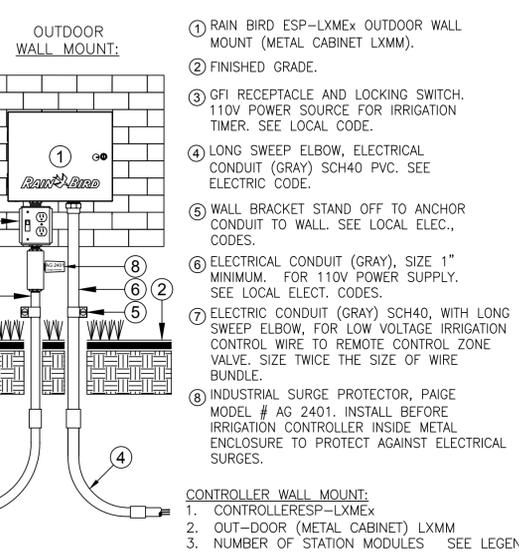
- 1 FINISH GRADE OR TOP OF MULCH.
- 2 PLANT MATERIAL (TURF, SHRUB OR GROUND COVER).
- 3 WIRE, COILED, 36-INCH LINEAR LENGTH.
- 4 WATERPROOF WIRE SPLICE, RAINBIRD# DBYR-20, (1 OF 2 SPLICES).
- 5 VALVE IDENTIFICATION TAG.
- 6 MASTER VALVE, RAINBIRD PEB SERIES.
- 7 VALVE BOX-12" STANDARD (RAIN BIRD VB-STD).
- 8 NIPPLE, SCH80 PVC, TOE, TBE OR (BLANKxBLANK), SIZE PER PLAN, LENGTH AS NEEDED.
- 9 BALL VALVE BRASS, SIZE PER VALVE INLET, SEE LEGEND FOR MODEL AND MFG.
- 10 ELBOW, SCH40 PVC, 90° DEGREE, (FIPTxFIPT), SIZE PER RCV VALVE INLET.
- 11 CLEAN COMPACTED BACKFILL, FREE OF ROCK.
- 12 MAINLINE, SEE MATERIAL LEGEND FOR TYPE, SIZE PER PLAN.
- 13 TEE, (SLIPxSLIPxFIPT), WITH STREET ELBOW, SCH40 PVC (MIPTxFIPT). SIZE PER PLAN & VALVE INLET.
- 14 ONE CUBIC FT., OF CRUSHED STONE OR GRAVEL.
- 15 FILTER FABRIC, WRAP UP ALL SIDES OF VALVE BOX.
- 16 MALE ADAPTER, (MIPTxSLIP), SIZE PER RCV VALVE OUTLET & SIZE PER PLAN LATERAL PIPE.
- 17 UNION, RED BRASS, AMERICAN MADE, NO IMPORTS.
- 18 BRICK SUPPORTS 1 OF 4.
- 19 ELBOW, SCH40, 45° DEGREE (SLIPxSLIP), SIZE PER VALVE OUTLET AND PER PLAN, (2 REQUIRED).



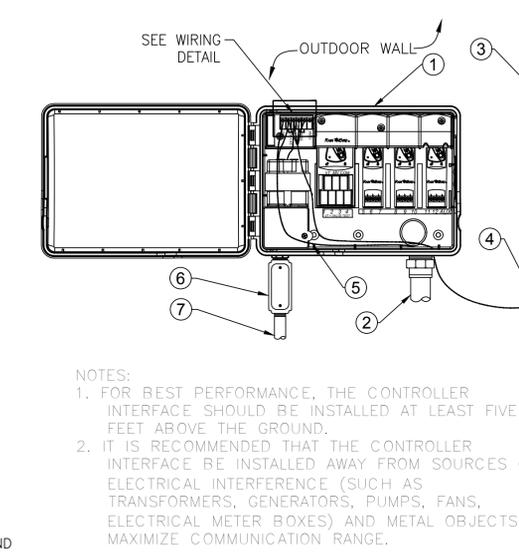
01 6\"/>



02 RAINBIRD RCV, PEB W/BRASS BALL VALVE & BRASS UNION
N.T.S. PEB VALVE WITH BRASS BALL VALVE & BRASS UNION 328403.05-36

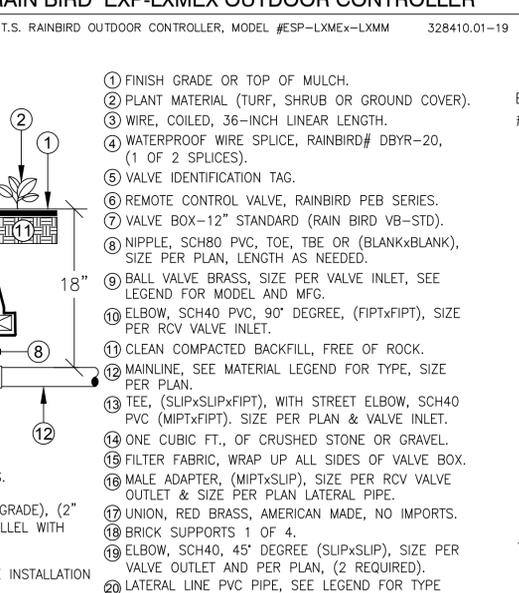


05 RAIN BIRD EXP-LXME X OUTDOOR CONTROLLER
N.T.S. RAINBIRD OUTDOOR CONTROLLER, MODEL #ESP-LXME-XLXM 328410.01-19

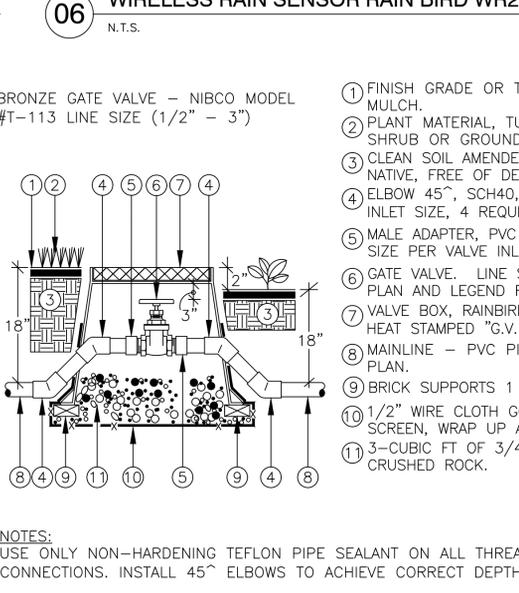


06 WIRELESS RAIN SENSOR RAIN BIRD WR2 SERIES
N.T.S.

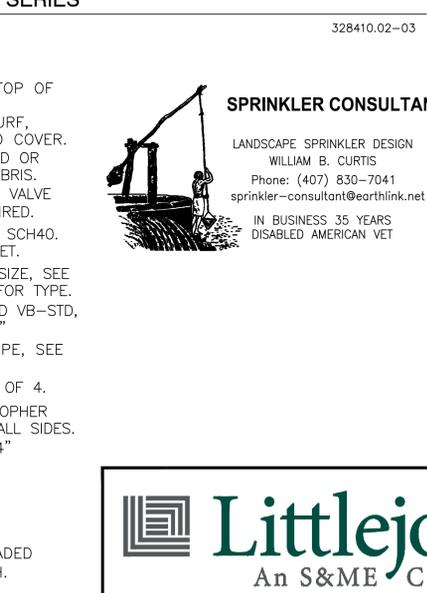
- 1 RAIN BIRD CONTROLLER: SEE MATERIAL LEGEND FOR TYPE
- 2 1 1/2-INCH MINIMUM PVC SCH 40 CONDUIT AND FITTINGS FOR VALVE WIRES
- 3 RAIN BIRD WR2 WIRELESS SENSOR CONTROLLER INTERFACE
- 4 CABLE HARNESS FOR CONTROLLER INTERFACE (30" MAXIMUM)
- 5 GROUND WIRE TO GROUNDING GRID
- 6 JUNCTION BOX
- 7 1/2-INCH PVC SCH 40 CONDUIT TO POWER SUPPLY



03 ISOLATION GATE VALVE WITH CROSS HANDLE
N.T.S.



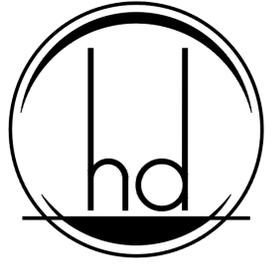
02 RAINBIRD RCV, PEB W/BRASS BALL VALVE & BRASS UNION
N.T.S. PEB VALVE WITH BRASS BALL VALVE & BRASS UNION 328406.01-206



03 ISOLATION GATE VALVE WITH CROSS HANDLE
N.T.S.

SPRINKLER CONSULTANT
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 WILLIAM B. CURTIS
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 DISABLED AMERICAN VET

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 Edward A. Browder, PLA, LA6666790 Florida Firm Registration No. 28050



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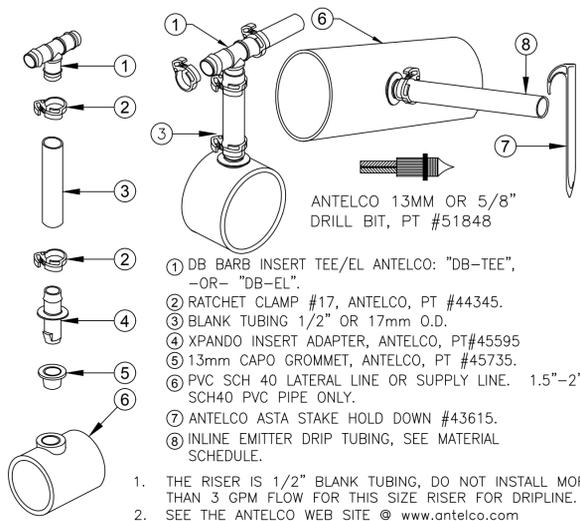
PROJECT **216013.00**
 LOCATION 1430 Dale Mabry Highway
 Lutz, FL 33548
 CLIENT Medical Center of Trinity
 9330 State Road 54
 Trinity, FL 34655

CONSTRUCTION DOCUMENTS

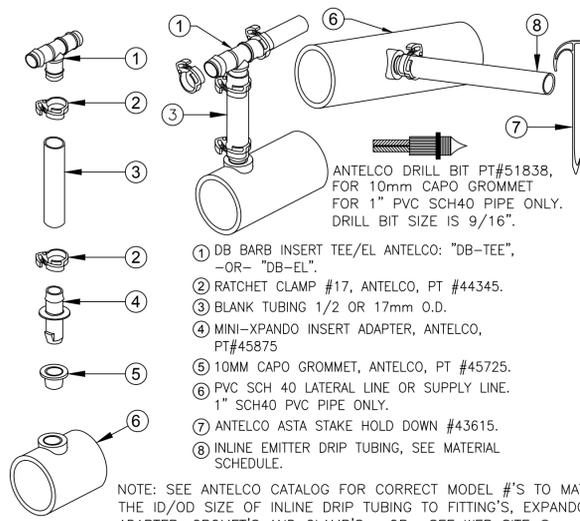


05/09/2016
 DATES OF ISSUANCE
 TITLE IRRIGATION DETAILS
 SHEET **12.1**

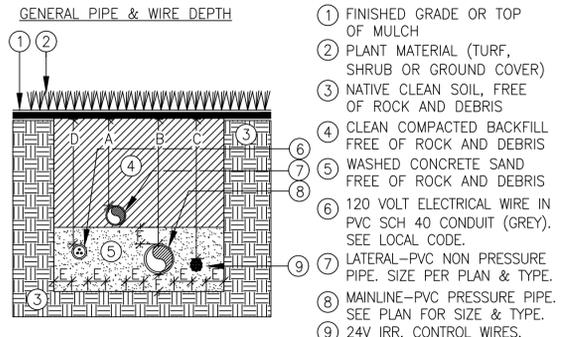
C:\Projects\2016\1627116023\1627116023_11.0_IRR.dwg-2.2 IRRIGATION DETAILS May 09, 2016 - 2:47pm cvo
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13 ANTELCO "EXPANDO" INSERT ADAPTER
N.T.S. 328415.10-01

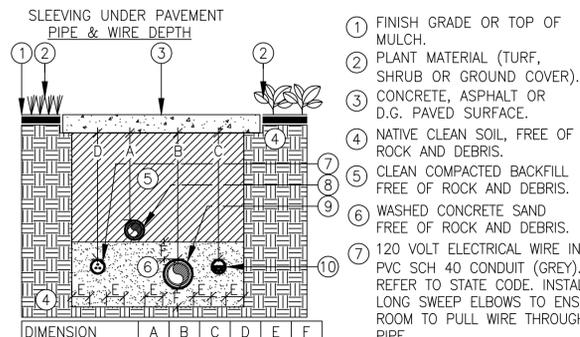


14 ANTELCO "MINI-XPANDO" INSERT ADAPTER
N.T.S. 328415.10-03



DIMENSION	A	B	C	D	E	F
1/2" TO 1 1/2" SIZE	12"	18"	18"	30"	4"	6"
2" TO 2 1/2" IN SIZE	12"	24"	24"	30"	4"	6"
3" AND LARGER	18"	24"	24"	X	6"	6"

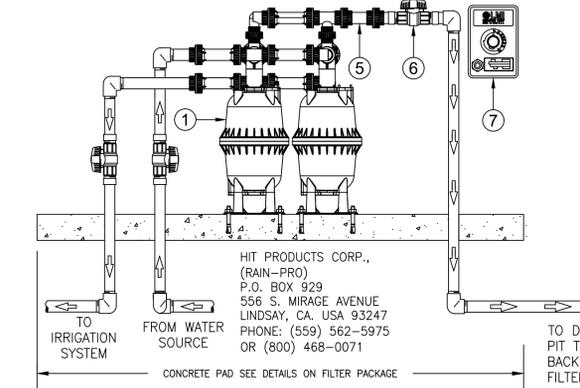
15 TRENCH DEPTH AND SLEEVE UNDER PAVEMENT
N.T.S.



DIMENSION	A	B	C	D	E	F
BELOW GRADE	24"	36"	36"	30"	4"	6"

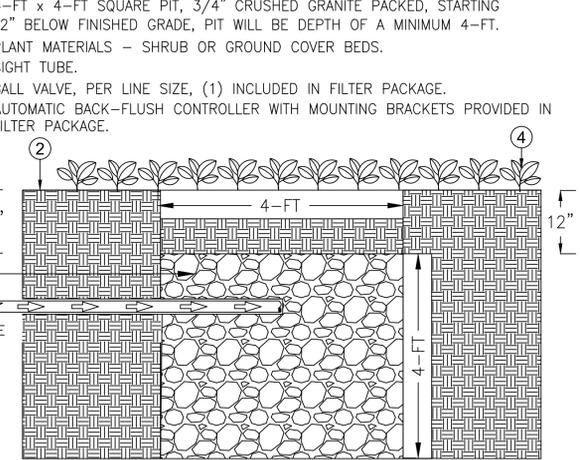
15 TRENCH DEPTH AND SLEEVE UNDER PAVEMENT
N.T.S. 328477.01-08

- NOTES:
- SCREEN DRAINAGE PIT WITH SHRUBS.
 - INSTALL FILTER FABRIC ON BOTTOM, ALL SIDES AND TOP OF DRAINAGE PIT TO KEEP SOIL FROM GETTING INTO THE GRAVEL.
 - OPTION IS TO BACKFLUSH FILTERS BACK TO RETENTION POND AREA.

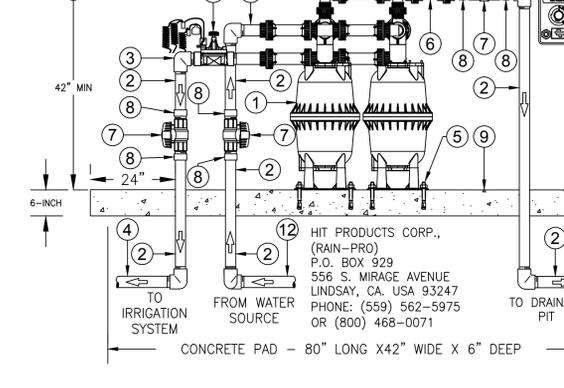


11 DRAINAGE PIT - TO BACKFLUSH RAIN-PRO FILTERS
N.T.S. 328414.01-60

- RAIN-PRO, SAND MEDIA FILTER (S), SEE FILTER PACKAGE DETAIL AND/OR EQUIPMENT LEGEND FOR NUMBER OF FILTER TANKS SPECIFIED.
- FINISHED GRADE.
- DRAINAGE PIT TO BACKFLUSH RAIN-PRO FILTERS, MINIMUM 4-FT x 4-FT x 4-FT SQUARE PIT, 3/4" CRUSHED GRANITE PACKED, STARTING 12" BELOW FINISHED GRADE, PIT WILL BE DEPTH OF A MINIMUM 4-FT.
- PLANT MATERIALS - SHRUB OR GROUND COVER BEDS.
- SIGHT TUBE.
- BALL VALVE, PER LINE SIZE, (1) INCLUDED IN FILTER PACKAGE.
- AUTOMATIC BACK-FLUSH CONTROLLER WITH MOUNTING BRACKETS PROVIDED IN FILTER PACKAGE.

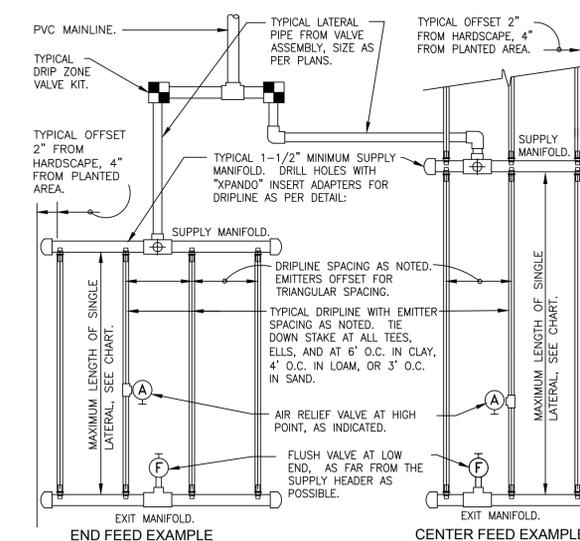


- RAIN-PRO, SAND MEDIA FILTER, MODEL #WT-2HUA. EACH TANK WILL FILTER 25 GPM. "ITEMS #6, #7 & #10 ARE INCLUDED IN THE WT-HUA FILTER PACKAGE."
- PVC PIPE SCH 80, THREADED NIPPLE, (MIPT x MIPT) OR (MIPT x BLANK), (TBE OR TOE), SIZE DIAMETER PER FILTER OUTLET AND LENGTH AS REQUIRED.
- ELBOW, PVC SCH80, (FIPT x FIPT), SIZE PER FILTER OUTLET. (6) SIX ELBOWS ARE REQUIRED.
- IRRIGATION MAINLINE, LEGEND FOR TYPE, SEE PLAN FOR SIZE.
- HILTI, "BASE PLATE" KB3 EXPANSION ANCHOR BOLTS, 1/2" DIAMETER x 3 3/4" LONG, #316 STAINLESS STEEL.
- SIGHT TUBE.
- BALL VALVE (PLASTIC-HIT PRODUCTS #BVT), (1) ONE BALL VALVE IS INCLUDED IN FILTER PACKAGE 3 REQ'D. SIZE PER INLET/OUTLET OF THE FILTER TANKS.
- MALE ADAPTER, SCH80 - SIZE PER INLET/OUTLET OF THE FILTER TANKS. (6) SIX MALE ADAPTERS ARE REQUIRED.
- CONCRETE BASE - 80" LONG, 42" WIDE, 6" DEEP DIMENSION INCLUDES A 1-FT CLEARANCE AROUND FILTERS.
- AUTOMATIC BACK-FLUSH CONTROLLER WITH MOUNTING BRACKETS PROVIDED IN FILTER PACKAGE.
- FINISHED GRADE.
- WATER SOURCE: WELL, RETENTION POND OR CITY WATER.
- RAIN PRO 2" NORMALLY OPEN R.C.V., CONNECT VALVE TO BACKFLUSH CONTROLLER AND TO THE DISCHARGE SIDE OF FILTER. THIS VALVE IS NOT PART OF THE FILTER PACKAGE, ORDER SEPARATELY.

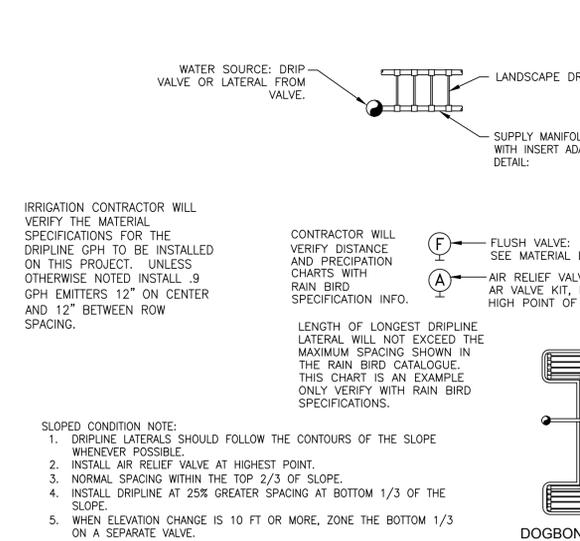


- NOTES:
- FILTER SET OF 2 TANKS WITH SILICA SAND #16, WILL FILTER 25 GPM PER EACH TANK, TOTAL FILTRATION WILL BE 50 G.P.M.
 - THE CONCRETE SLAB WILL BE 80" LONG X 42" WIDE, THIS WILL LEAVE A 1-FT OVERLAP AROUND THE OUTSIDE EDGE OF THE FILTER TANK SET.

12 RAIN-PRO 2 (TWO) AUTOMATIC BACKFLUSH FILTERS W/R.C.V.
N.T.S. 328414.01-90



10 RAIN BIRD DRIPLINE WITH INSERT ADAPTERS
N.T.S. 328413.05-06



10 RAIN BIRD DRIPLINE WITH INSERT ADAPTERS
N.T.S. 328413.05-06

SPRINKLER CONSULTANT

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Edward A. Browder, PLA, LA6666790 Florida Firm Registration No. 28050



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WWW.HDARCHITECTS.COM

PROJECT **216013.00**

LOCATION
1430 Dale Mabry Highway
Lutz, FL 33548

CLIENT
Medical Center of Trinity
9330 State Road 54
Trinity, FL 34655

CLIENT **LUTZ FSER**

CONSTRUCTION DOCUMENTS



05/09/2016

DATES OF ISSUANCE
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TITLE IRRIGATION DETAILS

SHEET **12.2**

SHEET INDEX

SHEET	DESCRIPTION
11.0	IRRIGATION PLAN
12.0	IRRIGATION DETAILS
12.1	IRRIGATION DETAILS
12.2	IRRIGATION DETAILS
12.3	IRRIGATION DETAILS
12.4	IRRIGATION DETAILS
12.5	IRRIGATION PUMP DETAILS
13.0	IRRIGATION SPECIFICATIONS

DETAIL REPORT

NUMBER	TITLE	DETAIL	REFERENCES
01/12.1	6" POP-UP SPRAY - RAINBIRD 1806-SAM	328403.05-36	
02/12.1	RAINBIRD RCV, PEB W/BRASS BALL VALVE & BRASS UNION	328406.01-206	
03/12.1	ISOLATION GATE VALVE WITH WHEEL HANDLE	328406.33-13	
04/12.1	RAINBIRD MV, PEB W/BRASS BALL VALVE & BRASS UNION	328406.02-106	
05/12.1	RAIN BIRD EXP-LXMEX OUTDOOR CONTROLLER	328410.01-19	
06/12.1	WIRELESS RAIN SENSOR RAIN BIRD WF2 SERIES	328410.02-03	
07/12.1	DRIFLINE TUBING FOR SHRUBS AND GROUND COVER AREA'S	328413.05-05	
08/12.1	ANTELCO "EXPANDO" INSERT ADAPTER - FOR 1" MANIFOLD	328415.10-31	
10/12.2	RAIN BIRD DRIFLINE WITH INSERT ADAPTERS	328413.05-06	
11/12.2	DRAINAGE PIT - TO BACKFLUSH RAIN-PRO FILTERS	328414.01-60	
12/12.2	RAIN-PRO 2 (TWO) AUTOMATIC BACKFLUSH FILTERS W/R.C.V.	328414.01-90	
13/12.2	ANTELCO "EXPANDO" INSERT ADAPTER	328415.10-01	
14/12.2	ANTELCO "MINI-XPANDO" INSERT ADAPTER	328415.10-03	
15/12.2	TRENCH DEPTH AND SLEEVE UNDER PAVEMENT	328477.01-08	
16/12.3	DIAGRAMMATIC LAYOUT FOR INLINE DRIP EMITTER TUBING	328415.10-32	
17/12.3	GENERAL TRENCHING	328477.01-31	
18/12.3	ANTELCO - FLUSH VALVE FOR INLINE DRIP TUBING	328415.26-04	
19/12.3	FLOW SENSOR INSTALLATION DETAIL	328484-04	
20/12.3	RAIN BIRD DBRY WIRE SPLICE CONNECTORS	328480.02-02	
21/12.3	METERING PUMP COMPONENT DIAGRAM	328481-02	
22/12.3	RID-O-RUST AUTOMATIC CONTROLLER	328481-03	
23/12.3	STATIC MIXER	328481-06	
25/12.4	CONCRETE PAD SIZED TO INCLUDE ALL EQUIPMENT SHOWN	328481-05	
26/12.4	SOLUTION TANK WITH AUTOMATIC TIMER (CONTROLLER)	328481-07	
27/12.4	RID-O-RUST NOTES AND PRICING	328481-08	
28/13.0	SPECIFICATIONS	328489.01-18	

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	WIRE	PSI	PSI @ POC	GPM	HEAD ELEV	VALVE ELEV	PRECIP
1	Rain Bird XCZ-150-PRB-COM	1-1/2"	Area for Dripline	103.6	56.47	63.97	31.84	0.00 ft	0.00 ft	1.55 in/h
2	Rain Bird XCZ-150-PRB-COM	1-1/2"	Area for Dripline	177.6	56.96	65.98	33.36	0.00 ft	0.00 ft	1.55 in/h
3	Rain Bird PEB	1"	Turf Spray	201.7	31.84	41.22	7.62	0.00 ft	0.00 ft	1.45 in/h
4	Rain Bird PEB	1"	Turf Spray	292.1	32.03	42.21	6.96	0.00 ft	0.00 ft	2.16 in/h
5	Rain Bird XCZ-150-PRB-COM	1-1/2"	Area for Dripline	289.3	56.60	66.78	32.23	0.00 ft	0.00 ft	1.55 in/h
6	Rain Bird PEB	1"	Turf Spray	321.7	32.26	42.57	11.62	0.00 ft	0.00 ft	1.84 in/h
7	Rain Bird XCZ-150-PRB-COM	1-1/2"	Area for Dripline	435.2	58.58	68.67	33.55	0.00 ft	0.00 ft	1.55 in/h
8	Rain Bird XCZ-150-PRB-COM	1-1/2"	Area for Dripline	440.4	51.41	61.48	22.54	0.00 ft	0.00 ft	1.55 in/h
9	Rain Bird XCZ-150-PRB-COM	1-1/2"	Drip Emmitter	452.6	44.04	54.03	26.60	0.00 ft	0.00 ft	40.75 in/h
10	Rain Bird PEB	1-1/2"	Turf Spray	341.3	35.74	44.20	41.00	0.00 ft	0.00 ft	1.75 in/h
11	Rain Bird XCZ-100-PRB-LC	1"	Drip Emmitter	145.9	53.96	60.02	18.62	0.00 ft	0.00 ft	40.75 in/h
12	Rain Bird XCZ-150-PRB-COM	1-1/2"	Area for Dripline	131.4	60.64	66.55	39.47	0.00 ft	0.00 ft	1.55 in/h
13	Rain Bird PEB	1"	Turf Spray	80.4	32.86	38.32	15.46	0.00 ft	0.00 ft	2.14 in/h
14	Rain Bird XCZ-150-PRB-COM	1-1/2"	Area for Dripline	47.1	56.69	62.17	33.69	0.00 ft	0.00 ft	1.55 in/h
	Common Wire			988.3						

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN/WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Rain Bird XCZ-150-PRB-COM	Area for Dripline	1.55 in/h	0.75	30	955.2	136.5
2	Rain Bird XCZ-150-PRB-COM	Area for Dripline	1.55 in/h	0.75	30	1,001	143.0
3	Rain Bird PEB	Turf Spray	1.45 in/h	1.25	52	396.3	198.1
4	Rain Bird PEB	Turf Spray	2.16 in/h	1.25	35	243.4	121.7
5	Rain Bird XCZ-150-PRB-COM	Area for Dripline	1.55 in/h	0.75	30	966.8	138.1
6	Rain Bird PEB	Turf Spray	1.84 in/h	1.25	41	476.3	238.1
7	Rain Bird XCZ-150-PRB-COM	Area for Dripline	1.55 in/h	0.75	30	1,007	143.8
8	Rain Bird XCZ-150-PRB-COM	Area for Dripline	1.55 in/h	0.75	30	676.1	96.6
9	Rain Bird XCZ-150-PRB-COM	Drip Emmitter	40.75 in/h	0.50	1	26.6	
10	Rain Bird PEB	Turf Spray	1.75 in/h	1.25	43	1,763	881.5
11	Rain Bird XCZ-100-PRB-LC	Drip Emmitter	40.75 in/h	0.50	1	18.6	
12	Rain Bird XCZ-150-PRB-COM	Area for Dripline	1.55 in/h	0.75	30	1,184	169.2
13	Rain Bird PEB	Turf Spray	2.14 in/h	1.25	35	541.1	270.6
14	Rain Bird XCZ-150-PRB-COM	Area for Dripline	1.55 in/h	0.75	30	1,011	144.4
	TOTALS:				418	10,266	2,682

PUMPS N PARTS, LLC - WILL INSTALL EQUIPMENT FOR RUST REMOVAL. NOTE: THE IRRIGATION CONTRACTOR WILL NOT PARTICIPATE IN INSTALLING THIS PHASE OF THE WORK OTHER THAN TO CALL PUMPS-N-PARTS TO SCHEDULE THE INSTALLATION. HOWEVER, THE CONTRACTOR WILL INCLUDE THE IRON REMOVAL EQUIPMENT IN HIS BID PACKAGE.

1- CHEM-TAINER 165 GALLON VERTICAL BULK STORAGE TANK, 31" D X 58" H, COLOR GREEN, 1 YEAR WARRANTY PRICE \$319.40

1- LMI UNI-DOSE U042-281TT CHEMICAL FEED PUMP, 30 GALLON PER DAY, 80 PSI, 240 VOLT, 1 YEAR WARRANTY PRICE \$189.95

1- UN-5 5 GALLON CONTAINER OF UNRUST STAIN PREVENTER, WILL LAST AT LEAST 6 WEEKS PRICE \$290.95

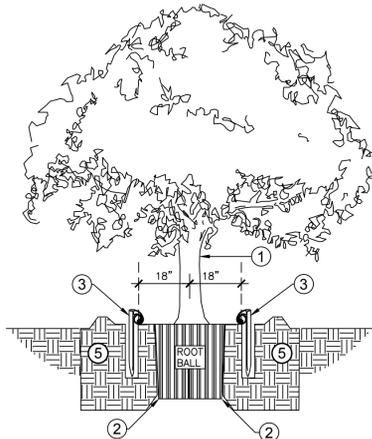
1- STATIC MIXER TOTAL PACKAGE PRICE \$950.30 (PRICES EXCLUDE ANY APPLICABLE TAX)

TAMPA BAY RUST SOLUTIONS, LLC WILL INSTALL THE COMPLETE SYSTEM AS LISTED ABOVE AND PERFORM A WATER TEST FILL THE STORAGE TANK WITH THE APPROPRIATE AMOUNT OF UNRUST STAIN PREVENTER GIVE DETAILED INSTRUCTIONS ON HOW TO USE THE RUST PREVENTION SYSTEM 1 YEAR WARRANTY ON PARTS & LABOR. INSTALLATION PRICE \$500.00

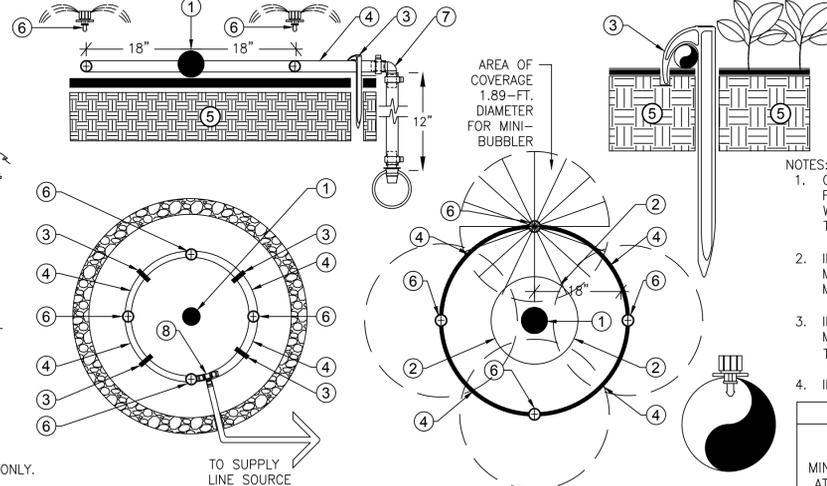
CONTACT: DAWN M. SMITH PUMPS-N-PARTS @ (727) 289-6448

NOTE: THESE PRICES WERE OBTAINED BY THE IRRIGATION CONSULTANT WHICH ARE SUBJECT TO CHANGE AND INTENDED ONLY AS AN APPROXIMATE PRICE ONLY. THE IRRIGATION CONTRACTOR WILL CONTACT PUMPS-N-PARTS TO VERIFY THE EXACT COSTS.

THE IRRIGATION CONTRACTOR IS NOT PERMITTED TO INSTALL THIS EQUIPMENT, FAILURE TO COMPLY WITH THIS SPECIFICATION WILL RESULT GIVING THE OWNER JUST CAUSE TO WITH HOLD EITHER PROGRESS AND/OR FINAL PAYMENTS UNTIL OR UNLESS THIS SPECIFICATION IS FOLLOWED AND THIS EQUIPMENT IS INSTALLED CORRECTLY BY PUMPS-N-PARTS.



NOTE: INSTALL 17mm OD BLANK TUBING W/14mm ID ONLY.



- ① TREE TRUNK
- ② OUTER EDGE OF ROOT BALL
- ③ ANTELCO ASTA HOLD DOWN STAKE #43615, INSTALL STAKE EVERY 2' O.C., IN SAND.
- ④ BLANK POLY TUBING ANTELCO (BLACK OR BROWN TUBING) 1/2", 17mm OD W/ 14mm ID.
- ⑤ CLEAN SOIL, AMENDED/NATIVE FREE OF ROCK AND DEBRIS
- ⑥ MINI-BUBBLER WITH BARB, ANTELCO PART # 31745 (MINIMUM OF 4 MINI-BUBBLERS REQ'D)
- ⑦ ELBOW (Block), ANTELCO, PART # DB 47215, 14mm ID
- ⑧ TEE (Block), ANTELCO, PART # DB TEE 47415, 14 mm

- NOTES:
- CONTRACTOR WILL INSTALL A TREE RING FOR ALL TREES INSTALLED IN TURF PLANTING AREAS FOR TEMPORARY IRRIGATION UNTIL THE TREE ROOT SYSTEM HAS BEEN ESTABLISHED INTO THE WATER TABLE. ONCE THE ROOT SYSTEM HAS BEEN ESTABLISHED THE TREE DRIP RINGS MAY BE TURNED-OFF AND REMOVED.
 - INSTALL THE TREE RING IN SUCH A WAY THAT A MINIMUM OF 6" OF WATER FROM EACH MINI-BUBBLER AREA OF COVERAGE IS APPLIED DIRECTLY TO THE TREE ROOT BALL. OPEN THE MINI-BUBBLER TO FULL OPEN POSITION, FOR FULL GALLONAGE.
 - INSTALL A MINIMUM OF FOUR (4) ANTELCO MINI-BUBBLER'S PER TREE, ADDITIONAL MINI-BUBBLERS MAY BE REQUIRED DEPENDING ON THE SIZE OF THE NEWLY PLANTED TREE. IF TREE PIT IS MULCHED INSTALL ANTELCO VINYL RISER 4" ABOVE MULCH.
 - INSTALL ANTELCO ASTA HOLD DOWN STAKE EVERY 2'-FT ON CENTER.

SET MINI-BUBBLER AT 9 CLICKS	PRESSURE P.S.I.	FLOW GPH	DIAMETER	Total of 4 Mini-Bubblers
	15	60.0	0.40	1.00
	20	80.0	0.50	1.33
	30	80.0	0.75	1.33

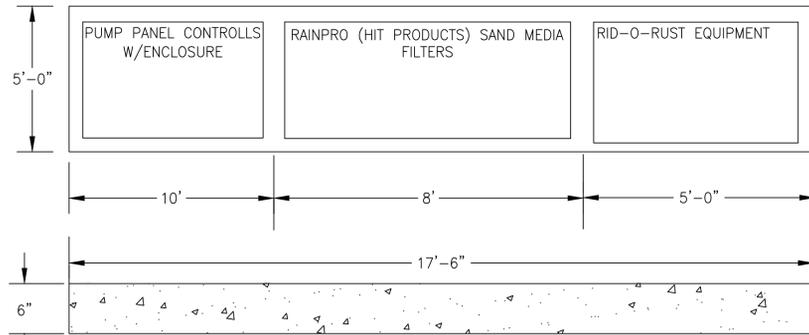
32 8415.33-05

27 RID-O-RUST NOTES AND PRICING

N.T.S. 328481-08

NOTES:

- CONCRETE PAD TO HOUSE ALL ABOVE GROUND EQUIPMENT:
 - A. PUMP PANEL CONTROLS.
 - B. SAND MEDIA FILTERS.
 - C. RID-O-RUST EQUIPMENT.
- THE IRRIGATION CONTRACTOR WILL SUBMIT A REQUEST FOR INFORMATION TO THE LANDSCAPE ARCHITECT TO VERIFY THE EXACT LOCATION TO INSTALL THE CONCRETE PAD INTENDED TO HOUSE ALL THE ABOVE GROUND EQUIPMENT AS SHOWN BELOW. THE CONTRACTOR WILL VERIFY DIMENSIONS OF ALL EQUIPMENT TO BE INSTALLED PRIOR TO INSTALLING THIS WORK. IF THE DIMENSIONS ARE INCORRECT THE CONTRACTOR WILL STOP THE WORK AND NOTIFY THE LANDSCAPE ARCHITECT.

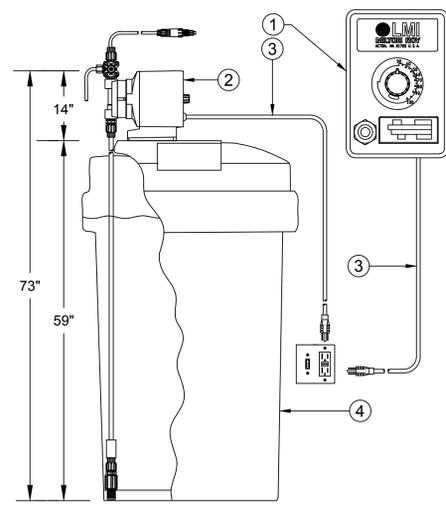


25 CONCRETE PAD SIZED TO INCLUDE ALL EQUIPMENT SHOWN

N.T.S. 328481-05

28 TREE DRIP RING WITH ANTELCO MINI-BUBBLER'S

N.T.S.



26 SOLUTION TANK WITH AUTOMATIC TIMER (CONTROLLER)

N.T.S. 328481-07

- ① SERIES PO CONTROL PANEL (WALL MOUNT).
- ② METERING PUMP HOUSING
- ③ POWER CORD
- ④ SOLUTION TANK FOR IRON REMOVAL CHEMICALS

- NOTES:
- CUT A PIECE OF SUCTION TUBING TO A LENGTH SO THAT THE FOOT VALVE HANGS JUST ABOVE THE BOTTOM OF THE SOLUTION TANK.
 - ATTACH THE FOOT VALVE TO ONE END OF SUCTION TUBING.
 - SLIDE THE CERAMIC WEIGHT OVER THE TUBING END UNTIL IT CONTACTS THE TOP OF THE FOOT VALVE COUPLING NUT.
 - PLACE FOOT VALVE AND TUBING INTO THE SOLUTION TANK. CHECK THAT THE FOOT VALVE IS VERTICAL AND APPROXIMATELY 2 INCHES FROM THE BOTTOM OF THE TANK OR DRUM. CONNECT THE OTHER END OF TUBING TO THE SUCTION SIDE OF (BOTTOM SIDE) OF THE PUMP HEAD (SEE TUBING CONNECTIONS).
 - SEE DETAIL FOR CONCRETE PAD.

SPRINKLER CONSULTANT

LANDSCAPE SPRINKLER DESIGN
 WILLIAM B. CURTIS
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 sprinkler-consultant@earthlink.net

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PROJECT
216013.00

LOCATION
1430 Dale Mabry Highway
Lutz, FL 33548

CLIENT
Medical Center of Trinity
9330 State Road 54
Trinity, FL 34655

LUZ FSER

CONSTRUCTION DOCUMENTS



05/09/2016

DATES OF ISSUANCE
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TITLE
IRRIGATION DETAILS

SHEET
12.4

Littlejohn
An S&ME Company

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 Edward A. Browder, P.L.A. LA6666790 Florida Firm Registration No. 28050

C:\Projects\2016\527116023\527116023.dwg Construction\527116023_11.0_IRR.dwg-12.4 IRRIGATION DETAILS May 09, 2016 - 2:47pm cvo
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