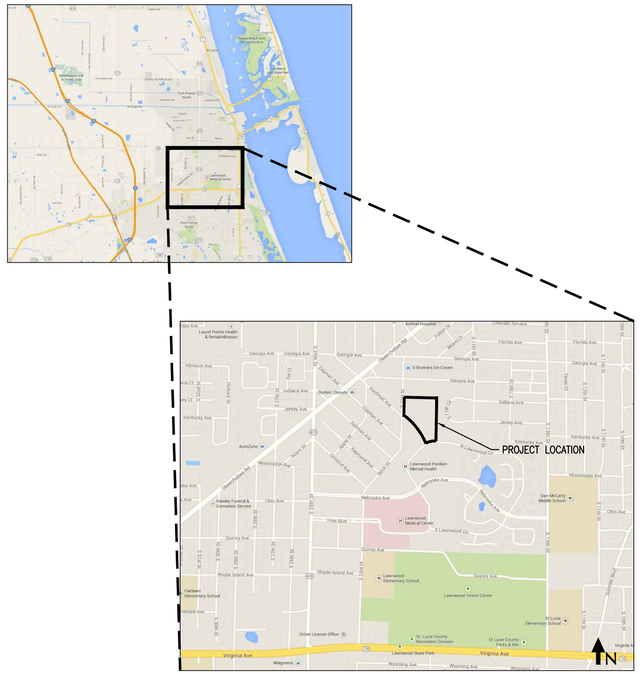
LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION

LOCATED IN:

FORT PIERCE, FLORIDA

PARCEL ID # 2416-504-0199-030-0

CITY COMMISSION SUBMITTAL
JUNE 23, 2015



VICINITY MAP
N.T.S.

CONSULTANTS

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FORT PIERCE, FLORIDA 34981
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SIGNATORY: GREG LOWE, VICE PRESIDENT
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APPLICANT / REPRESENTATIVE

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PROJECT INFORMATION

PROJECT DESCRIPTION:	13,412 SF ADDITION TO AN EXISTING PHYSICAL REHABILITATION CENTER.
LEGAL DESCRIPTION:	SEE SHEET C1.0, EXISTING CONDITIONS
SITE DATA:	SEE SHEET C2.0, NOTES

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Florida Firm Registration No. 28050

LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION
FORT PIERCE, FLORIDA

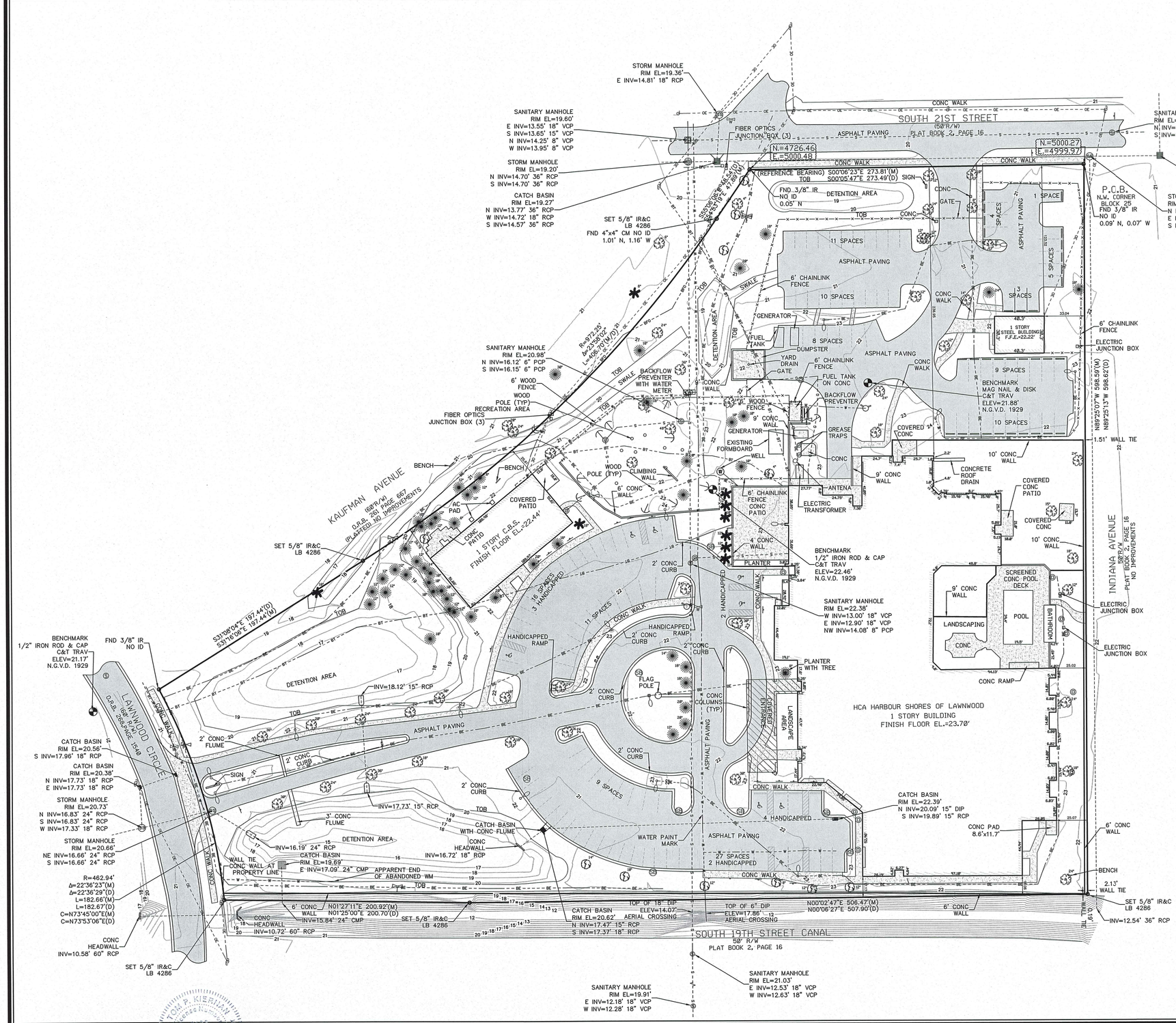
LAWNWOOD PHYSICAL REHABILITATION CENTER
at Lawnwood Regional Medical Center & Heart Institute

GEORGE B. HUDDLESTON III
License No. 75608
6/23/15
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE	REVISIONS
5/6/2015	20150322

C0.0
COVER SHEET

C:\Projects\2015\20150322\dwg\Construction\20150322_C0-0_COV.dwg-C0-0 Cover_Construction Jun 24, 2015 - 10:24am landerson



LEGAL DESCRIPTION

A PART OF LAWNWOOD ADDITION AS RECORDED IN PLAT BOOK 2, PAGE 16, ST. LUCIE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGIN AT THE NORTHWEST CORNER OF BLOCK 25; THENCE S00°05'47"E ALONG THE WEST LINE OF BLOCK 25 AND ALONG THE EAST RIGHT OF WAY OF SOUTH 21ST STREET A DISTANCE OF 273.49 FEET TO THE EXISTING NORTHERLY RIGHT OF WAY OF A 60.00 FOOT RIGHT OF WAY AS RECORDED IN OFFICIAL RECORDS BOOK 261, PAGE 667, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA; THENCE S55°06'06"E ALONG SAID RIGHT OF WAY A DISTANCE OF 46.54 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE TO THE SOUTHWEST, SAID CURVE HAVING A RADIUS OF 972.25 FEET; THENCE SOUTHEASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 23°58'02" A DISTANCE OF 406.70 FEET; THENCE S31°08'04"E ALONG SAID RIGHT OF WAY A DISTANCE OF 197.44 FEET TO THE NORTHERLY RIGHT OF WAY OF A 60.00 FOOT RIGHT OF WAY FOR "LAWNWOOD CIRCLE NORTH" AS RECORDED IN OFFICIAL RECORD BOOK 26B, PAGE 1540 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, SAID POINT BEING ON THE ARC OF A CURVE CONCAVE TO THE SOUTH, HAVING A RADIUS OF 462.94 FEET, WHOSE CHORD BEARS N73°53'06"E; THENCE EASTERLY ALONG SAID CURVE AND ALONG SAID RIGHT OF WAY THROUGH A CENTRAL ANGLE OF 22°36'29" A DISTANCE OF 182.67 FEET TO THE WEST LINE OF A 50.00 FOOT WIDE DRAINAGE RIGHT OF WAY FOR SOUTH 19TH STREET CANAL; THENCE N01°25'00"E ALONG SAID RIGHT OF WAY A DISTANCE OF 200.70 FEET TO THE SOUTH SIDE OF A VACATED 16.00 FEET ALLEY RUNNING THROUGH BLOCK 30; THENCE N00°06'27"E, CONTINUING ALONG SAID DRAINAGE RIGHT OF WAY AND ALONG THE EAST LINE OF BLOCK 25 A DISTANCE OF 507.90 FEET TO THE NORTHEAST CORNER OF BLOCK 25; THENCE N89°25'13"W A DISTANCE OF 598.62 FEET TO POINT OF BEGINNING.

SUBJECT TO EASEMENTS, RIGHTS OF WAY OR RESERVATIONS OF PUBLIC RECORD,

NOTES:

1) Not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper.
2) Description shown hereon provided by the client and/or their agent.
3) The last date of field work was April 23, 2015.
4) Overall parcel contains 7.539 Acres, more or less.
5) Lands shown hereon were not abstracted by this office for right-of-ways, Reservations, Agreements, and/or Easements of Record. Such information should be obtained and confirmed by others through appropriate title verification.
6) Elevations shown hereon are based on the North rim of a catch basin having a elevation of 20.87 feet based on the National Geodetic Vertical Datum (N.G.V.D.) of 1929.
7) Bearings shown hereon are assumed and relative to the East right-of-way line of South 21st Street having a bearing of S00°06'23"E.
8) Underground utilities, utility services, foundations and improvements were not located as a part of this survey.
9) Said described property is located within an area having a Flood Zone Designation "X", on Flood Rate Map No.12111C0186 J with a date of identification of February 16, 2012, in St. Lucie County, State of Florida, which is the current Flood Insurance Rate Map for the community in which said premises is situated.
10) Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
11) Horizontal coordinate shown herein are assumed and referenced to the East R/W of S 21st Street.

LEGEND

℄	DENOTES CENTERLINE
(M)	DENOTES FIELD MEASUREMENTS
(D)	DENOTES DEED DATA
WM	DENOTES WATER MAIN
TOB	DENOTES TOP OF BANK
TYP	DENOTES TYPICAL
FND	DENOTES FOUND
LB	DENOTES LICENSED BUSINESS
OE	DENOTES OVERHEAD UTILITIES
UE	DENOTES UTILITY EASEMENT
PLS	DENOTES PROFESSIONAL LAND SURVEYOR
IP	DENOTES IRON PIPE
IR	DENOTES IRON ROD
CM	DENOTES CONCRETE MONUMENT
CONC	DENOTES CONCRETE
IR&C	DENOTES 5/8" IRON ROD & CAP
Δ	DENOTES CENTRAL ANGLE
R	DENOTES RADIUS
L	DENOTES ARC LENGTH
ORB	DENOTES OFFICIAL RECORDS BOOK
±	DENOTES PLUS OR MINUS
No.	DENOTES NUMBER
PK&D	DENOTES P.K. NAIL AND DISK
CMP	DENOTES CORRUGATED METAL PIPE
RCP	DENOTES REINFORCED CONCRETE PIPE
No ID	DENOTES NO IDENTIFICATION NUMBER
PRM	DENOTES PERMANENT REFERENCE MONUMENT
	DENOTES FIRE HYDRANT
	DENOTES ELEVATION (TYPICAL)
WM	DENOTES WATER METER
	DENOTES OAK TREE
	DENOTES PINE TREE
	DENOTES PALM TREE
	DENOTES EXOTIC TREE
	DENOTES SOIL BORING
	DENOTES SANITARY CLEANOUT
	DENOTES STREET LIGHT
	DENOTES GUY ANCHOR
	DENOTES SIGN
S	DENOTES SANITARY MANHOLE
	DENOTES STORM MANHOLE
	DENOTES IRRIGATION VALVE
BT	DENOTES BELLSOUTH PAINT MARK
BE	DENOTES FP&L PAINT MARK
W	DENOTES WATER PAINT MARK
S	DENOTES SANITARY PIPE
G	DENOTES GAS PAINT MARK

C1.0
EXISTING CONDITIONS

STATE OF FLORIDA
THOMAS P. KIERNAN
PROFESSIONAL SURVEYOR & MAPPER
FLORIDA CERTIFICATE NO. 6199

4/10/15
SIGNATURE DATE

COMPUTER FILE REF.	FIELD BK./PG.
15-054 map.dwg	

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CONSULTING ENGINEERS | LAND SURVEYORS
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STATE OF FLORIDA CERTIFICATION No. LB 4286

– REVISIONS –	BY	DATE
AGENCY COMMENTS AND ADDED COORDINATES AND DATUM REF.	RNJ	6-10-15
REVISED COVERED ENTRY	GLM	5-26-15
ADDED SANITARY MANHOLE, SANITARY & WATER LINE LOCATION	GLM	4-24-15

	BY	DATE
FIELD	GA	4-7-15
CALCS.		
DRAWN	GLM	4-7-15
DETAILED		
CHECKED		
APPROVED		

BOUNDARY SURVEY

PREPARED FOR

LITTLEJOHN ENGINEERING ASSOCIATES

DATE: 4-07-2015
HORIZ. SCALE: 1"=40'
VERT. SCALE: N\A
JOB No. 15-054
SHEET 1 OF 1

GENERAL NOTES

1. BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY CULPEPPER & TERPENING, INC. ON 5/5/2015. LITTLEJOHN ENGINEERING ASSOCIATES AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.
2. THE SITE LAYOUT IS BASED ON REFERENCE POINTS AS NOTED.
3. 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.
4. 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.
5. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.
6. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. SLIGHT FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.
7. DIMENSIONS ARE TO FACE OF CURB AND/OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
8. CONCRETE FOR SIDEWALKS SHALL BE 3500 PSI CONCRETE.
9. ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR TO THE CITY OF FORT PIERCE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
10. ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. GRADES WITHIN ACCESSIBLE SPACES SHALL BE MAXIMUM 2% IN ALL DIRECTIONS.
11. THE PROPOSED BUILDING SHALL BE LAID OUT UTILIZING THE EXISTING STRUCTURE AS A CONTROL POINT AND THE ARCHITECTURAL DRAWINGS. DIMENSIONS SHOWN TO THE PROPOSED BUILDING ARE CALCULATED TO THE FACE OF EXTERIOR WALL. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
12. 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.
13. 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.
14. THE CONTRACTOR SHALL PAVE IN THE DIRECTION OF TRAFFIC.
15. THE CONTRACTOR SHALL COLD PLANE 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 CITY OF FORT PIERCE.
18. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO CITY OF FORT PIERCE 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.
20. 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.

SITE UTILITY NOTES

1. THE SANITARY SEWER SHALL BE OF THE MATERIAL INDICATED ON THE PLAN. POLYVINYLCHLORIDE (PVC) SHALL BE (SDR26).
2. ALL WATER LINES, SEWER LINES, AND APPURTENANCES SHALL BE OF MATERIALS AND CONSTRUCTION THAT CONFORM TO THE FPUA STANDARDS AND DETAILS. PROVIDE A MINIMUM 36" OF COVER OVER ALL WATER LINES.
3. THE CONTRACTOR SHALL MAINTAIN VERTICAL AND HORIZONTAL SEPARATION BETWEEN UTILITIES AND WATER LINES IN ACCORDANCE WITH FORT PIERCE AND FPUA STANDARDS.
4. 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.
5. 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.
6. 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.
7. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE FPUA SPECIFICATIONS.
8. ALL TRENCHES CUT IN EXISTING ROADS OR DRIVES SHALL UTILIZE A CLEAN SAW CUT AND SHALL BE BACKFIELD (100%) TO FINAL SUBGRADE WITH #57 STONE. REPAIR ROADS PER LOCAL AGENCY REQUIREMENTS.
9. REPAIR ALL DAMAGE TO EXISTING FEATURES (i.e. DRIVES, ROADS, YARDS, LANDSCAPING, ETC...) TO PRE-CONSTRUCTION CONDITION.
10. 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 PASSUNDER 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.
11. 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 FPUA.
12. COORDINATE THE EXACT LOCATION OF ALL UTILITIES ENTERING THE BUILDING WITH THE PLUMBING PLANS.
13. THE CONTRACTOR SHALL VERIFY REQUIRED PIPE LENGTHS. EXISTING PIPE MATERIAL AND SIZES AS SHOWN ON PLANS.
14. 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.
15. WHERE DRAINAGE OR UTILITY LINES OCCUR IN PROPOSED FILL AREAS, THE FILL MATERIAL IS TO BE PLACED AND COMPACTED PER GEOTECHNICAL ENGINEERS 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.
16. THE CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE WATER LINES (HORIZONTALLY AND/OR VERTICALLY) TO ALLOW THE REQUIRED BRACING AT BENDS AND TEES.
17. EXISTING CASTINGS LOCATED IN FILL/CUT AREAS SHALL BE ADJUSTED TO ENSURE THAT THE TOP OF CASTING IS FLUSH WITH THE FINISHED GRADE.
18. 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.
19. 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.
20. 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.
21. THE CONCRETE CAPS AND ENCASEMENTS ON WATER AND SEWER LINES SHALL BE A MINIMUM OF 6" THICK. USE 3000 PSI CONCRETE.
22. CONTRACTOR SHALL MARK THE LOCATION OF ALL NEW PVC LINES PER FPUA STANDARDS.

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 CITY OF FORT PIERCE 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 CITY OF FORT PIERCE 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 LIGHT STANDARDS BEING REMOVED SHALL BE FIRST OFFERED TO THE OWNER PRIOR TO DISPOSING OF THEM. COORDINATE LIGHTING DEMOLITION AND LAYOUT WITH THE ELECTRICAL DRAWINGS.
11. RELOCATION OF EXISTING PLANT MATERIALS SHALL BE COORDINATED WITH THE OWNER AND RELOCATED TO A DESIGNATED AREA ON SITE.
12. EXISTING TRESS TO BE PRESERVED ARE TO BE BARRICADED BEFORE BEGINNING CONSTRUCTION. IN ACCORDANCE WITH THE TREE PRESERVATION NOTES AND DETAIL ON THE LANDSCAPE PLAN.
13. NO UTILITY OR STORM SEWER LINES SHALL BE DEMOLISHED UNTIL THE NEW LINES HAVE BEEN INSTALLED AND ARE PLACED INTO OPERATION.
14. THE CONTRACTOR SHALL INCORPORATE INTO HIS WORK ANY ISOLATION VALVES OR TEMPORARY PLUGS REQUIRED TO CONSTRUCT NEW UTILITY LINES AND DEMOLISH EXISTING UTILITY LINES.
15. SELECTIVE CLEARING CONSISTING OF REMOVAL OF VINES, SAPLINGS UNDER 1" DIAMETER AND UNDERBRUSH SHALL BE PERFORMED IN TREE PRESERVATION AREAS INTERNAL TO THE PROJECT AND NOTED ON PLANS.
16. 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.
17. EXISTING IRRIGATION LINES 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 GRADING & EROSION CONTROL NOTES

1. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 1.25± ACRES.
2. THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 12111C0186J OF THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR FORT PIERCE, FLORIDA, WITH AN EFFECTIVE DATE OF 2/16/12
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 CRF 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 GRATE 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. 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".
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. 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.
29. 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.
30. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS.
31. 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.
32. 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.
33. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF THE DETENTION POND DIVERSION DITCH VERIFYING THE REQUIRED VOLUME HAS BEEN PROVIDED AND THAT THE OUTLET CONTROL STRUCTURES MEETS THE DESIGN REQUIREMENTS. THE SURVEY SHALL BE CONDUCTED BY A SURVEYOR LICENSED IN THE STATE OF FLORIDA.

GENERAL INFORMATION

DEVELOPMENT NAME:	LAWNWOOD PHYSICAL REHABILITATION CENTER
PARCEL NUMBERS:	2416-504-0199-030-0
ZONING:	CI
OWNER:	LAWNWOOD REGIONAL MEDICAL CENTER, INC. PO BOX 1504 NASHVILLE, TN 37205
AGENT / ENGINEER:	LITTLEJOHN ENGINEERING ASSOCIATES 1615 EDGEWATER DRIVE, SUITE 180 ORLANDO, FL 32804 P: (407) 975-1273 F: (407) 975-1278 CONTACT : GEORGE HUDDLESTON, III, PE

PROPOSED PROJECT INFORMATION

PROJECT NAME:	LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION
SITE ADDRESS:	1860 N. LAWNWOOD CIR
CITY:	FORT PIERCE
COUNTY:	ST. LUCIE
STATE:	FLORIDA
PROPOSED USE:	PHYSICAL REHABILILTATION CLINIC

BUILDING SETBACKS:	MIN.
FRONT YARD:	25'
SIDE YARD:	15'
REAR YARD:	15'

DEVELOPMENT INFORMATION

	ACRES	SQ. FT.
SITE AREA	7.54	328,442

BUILDING COVERAGE

MAX. FLOOR AREA RATIO: 40%

	SQ. FT.	F.A.R.	BEDS
EXISTING REHAB BUILDING	52,375	15.95%	58
EXISTING MOB	5,670	1.73%	N/A
PROPOSED BUILDING ADDITION	13,412	4.08%	16
TOTAL	71,457	21.76%	74

IMPERVIOUS SITE COVERAGE

MAX. IMPERVIOUS COVER: 80%

	SQ. FT.	ACRES	%
EXISTING BUILDINGS	58,045	1.33	17.67%
EXISTING PARKING	43,966	1.01	13.39%
EXISTING MISC.*	6,671	0.15	2.03%
EXISTING SUBTOTAL	108,682	2.49	33.09%
PROPOSED BUILDING ADDITION	13,412	0.31	4.08%
PROPOSED PARKING	-7,775	-0.18	-2.37%
PROPOSED MISC.*	647	0.01	0.20%
PROPOSED SUBTOTAL	6,284	0.14	1.91%
TOTAL IMPERVIOUS COVER:	114,966	2.64	35.00%
TOTAL OPEN SPACE	213,476	4.90	65.00%

** MISC. IMPERVIOUS COVERAGES INCLUDE SIDEWALKS, CURBS, CONCRETE PADS, & ETC.*

PARKING

PARKING REQUIREMENT:	1.5 SPACES / BED	
	1 SPACE / 200 SF OF MOB	
LICENSED BEDS	74	
MOB SQUARE FOOTAGE	5,670	
REQUIRED PARKING:	139	SPACES
PROVIDED PARKING:	59	STAFF/EMPLOYEE SPACES
	64	PATIENT/VISITOR SPACES
	16	ACCESSIBLE SPACES
	139	TOTAL SPACES

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

LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION
FORT PIERCE, FLORIDA

LAWNWOOD PHYSICAL REHABILITATION CENTER
at Lawnwood Regional Medical Center & Heart Institute

GEORGE BRYANT HUDDLESTON III
LICENSE
No. 75608
6/23/15
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE	REVISIONS
5/6/2015	20150322

C2.0
GENERAL NOTES

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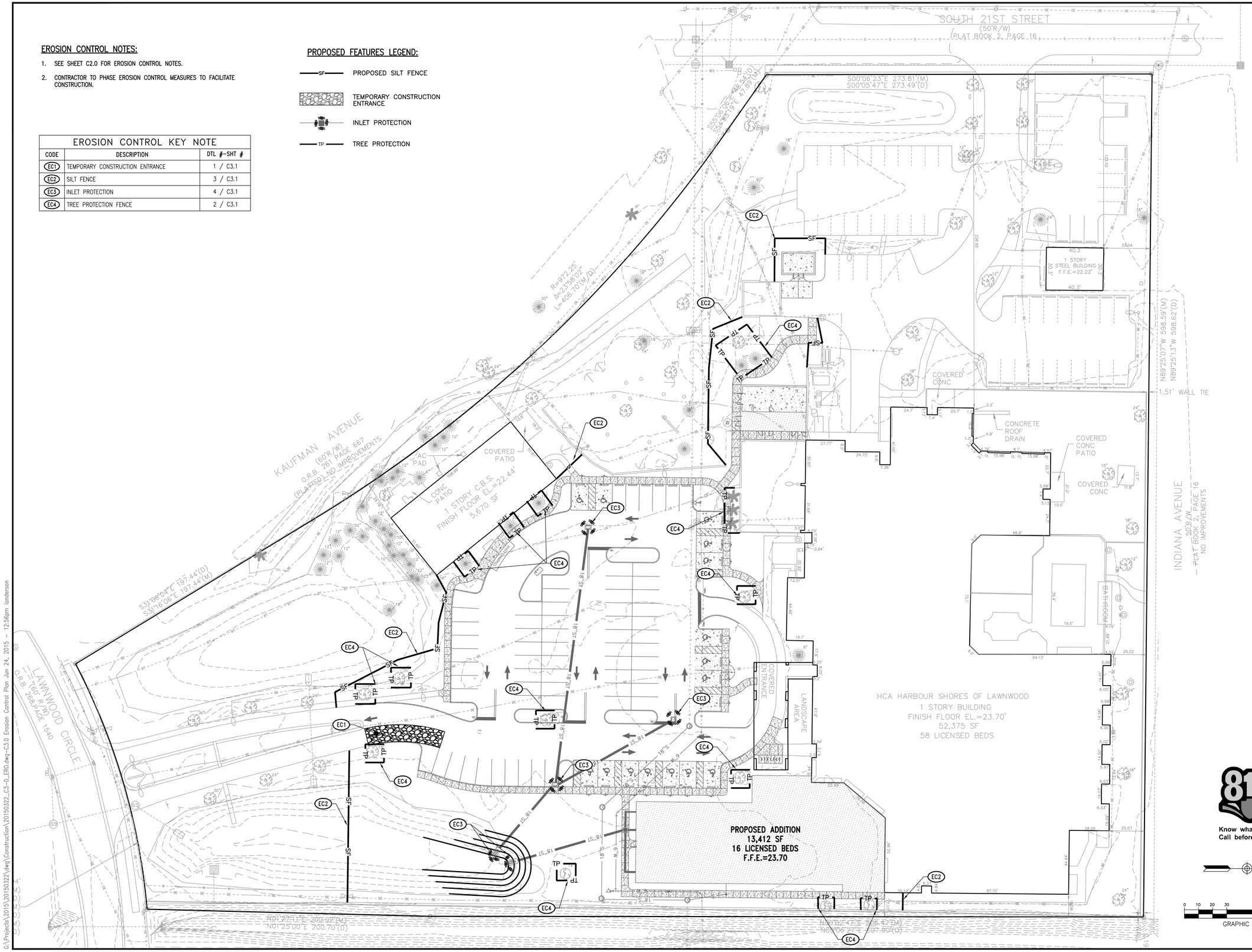
EROSION CONTROL NOTES:

1. SEE SHEET C2.0 FOR EROSION CONTROL NOTES.
2. CONTRACTOR TO PHASE EROSION CONTROL MEASURES TO FACILITATE CONSTRUCTION.

EROSION CONTROL KEY NOTE		
CODE	DESCRIPTION	DTL #-SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1 / C3.1
EC2	SILT FENCE	3 / C3.1
EC3	INLET PROTECTION	4 / C3.1
EC4	TREE PROTECTION FENCE	2 / C3.1

PROPOSED FEATURES LEGEND:

- SF — PROPOSED SILT FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- INLET PROTECTION
- TP — TREE PROTECTION



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LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION

FORT PIERCE, FLORIDA

LAWNWOOD PHYSICAL REHABILITATION CENTER
at Lawnwood Regional Medical Center & Heart Institute

FLORIDA REGISTERED LANDSCAPE ARCHITECT
EDWARD A. BROWDER
No. LA6666790
6/23/15
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE	REVISIONS
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C3.0

EROSION CONTROL PLAN

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5

RESERVED

NOT TO SCALE

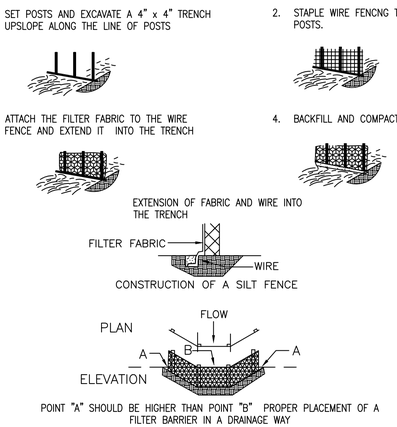
6

RESERVED

NOT TO SCALE

3

1. SET POSTS AND EXCAVATE A 4" x 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS
2. STAPLE WIRE FENCNG TO THE POSTS.
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

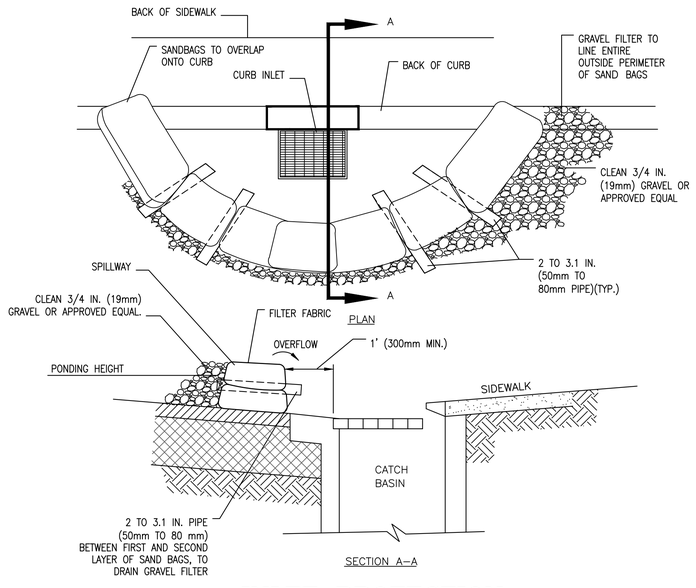


SILT FENCE

NOT TO SCALE

4

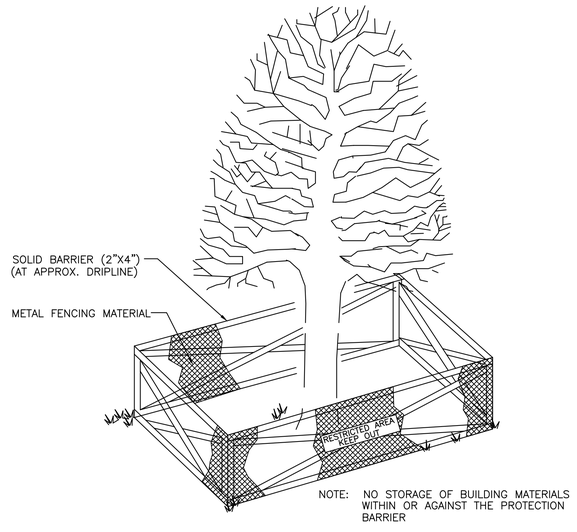
NOTES:
1. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.
2. PERIODICALLY REMOVE AND REPLACE GRAVEL. OLD GRAVEL MAY BE USED AS BACKFILL MATERIAL IF APPROVED BY ENGINEER.



INLET PROTECTION

NOT TO SCALE

2

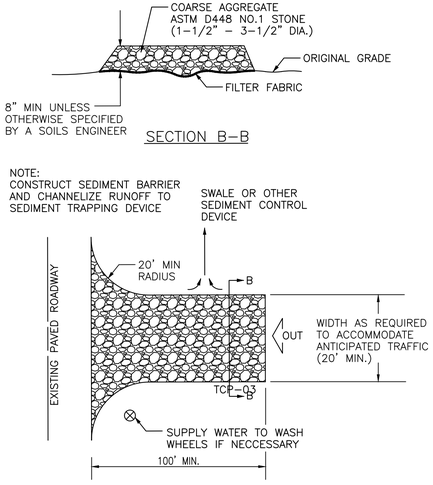


NOTE: NO STORAGE OF BUILDING MATERIALS WITHIN OR AGAINST THE PROTECTION BARRIER

TREE PROTECTION

NOT TO SCALE

1



TEMPORARY CONSTRUCTION ENTRANCE

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Edward A. Browder FLA L46666790

LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION

FORT PIERCE, FLORIDA

Lawnwood Physical Rehabilitation Center
at Lawnwood Regional Medical Center & Heart Institute

GEORGE B. HUDDLESTON, III
LICENSED PROFESSIONAL ENGINEER
No. 73608
6/23/15
STATE OF FLORIDA

DATE	REVISIONS
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C3.1

EROSION CONTROL DETAILS

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DEMOLITION KEY NOTE		
CODE	DESCRIPTION	DTL #/SHT #
D1	REMOVE EXISTING ASPHALT PAVEMENT	
D2b	REMOVE EXISTING CONCRETE SIDEWALK	
D3	REMOVE EXISTING CURB	
D4	EVENLY SAWCUT	
D6	REMOVE EXISTING DRAINAGE STRUCTURE	
D7	REMOVE EXISTING STORM LINE	
D8	REMOVE EXISTING WATER LINE & APPURTENANCES	
D9	REMOVE EXISTING SANITARY SEWER LINE	
D10	REMOVE EXISTING UTILITY LINE & APPURTENANCES	
D11	EXISTING UTILITY LINE TO BE ABANDONED IN PLACE	
D12	EXISTING FIRE HYDRANT TO BE RELOCATED	
D13	REMOVE EXISTING TREE	
D14	LIMIT OF UTILITY REMOVAL	
D15	REMOVE EXISTING LIGHT POLE	

TREES TO BE REMOVED

SIZE/TYPE	RATIO	REPLACEMENT INCHES
18" TREE	1:1	18"
18" TREE	1:1	18"
24" TREE	1:1	24"
24" TREE	1:1	24"
TOTAL REPLACEMENT INCHES		98" DBH

TREES TO BE PRESERVED

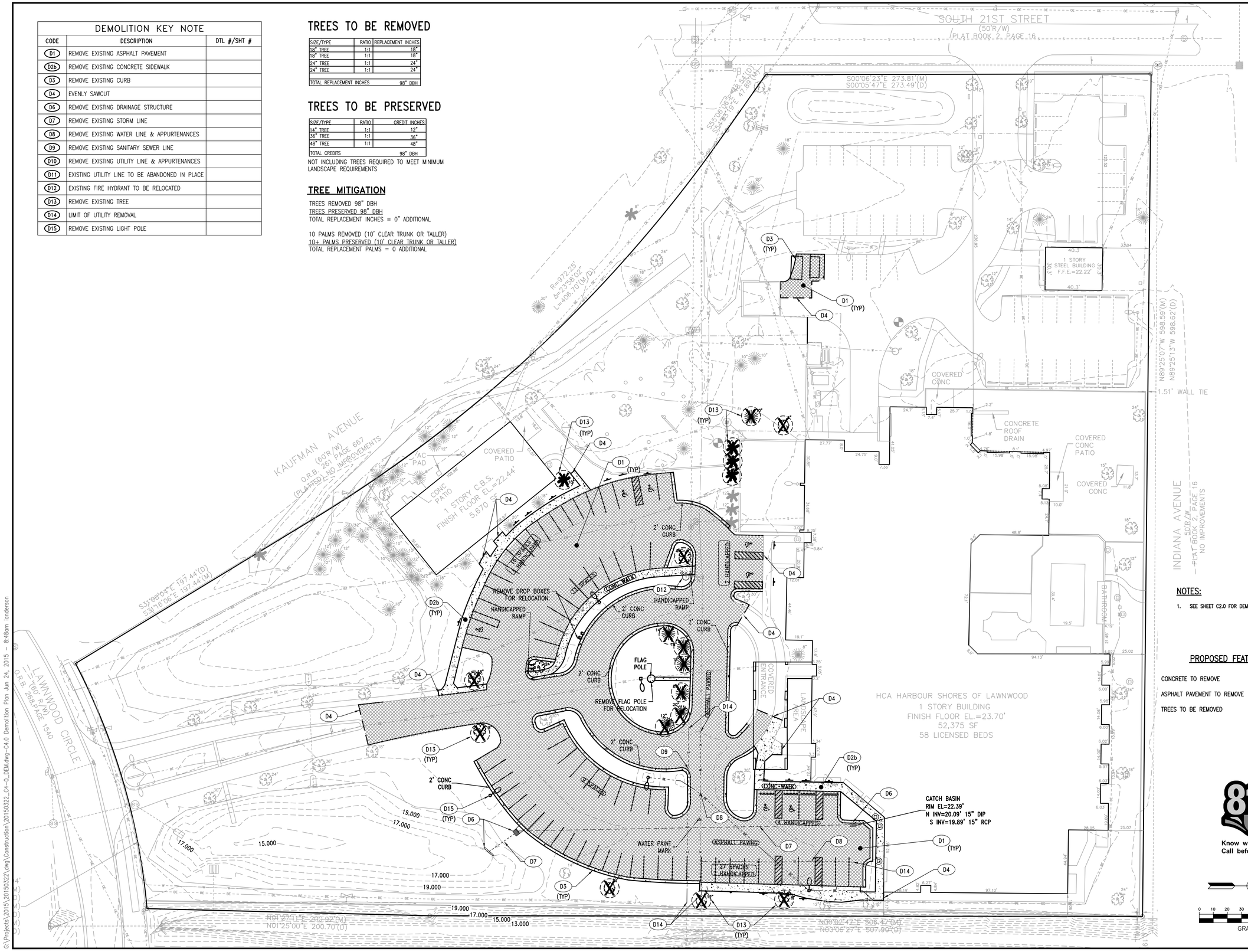
SIZE/TYPE	RATIO	CREDIT INCHES
14" TREE	1:1	12"
36" TREE	1:1	36"
48" TREE	1:1	48"
TOTAL CREDITS		98" DBH

NOT INCLUDING TREES REQUIRED TO MEET MINIMUM LANDSCAPE REQUIREMENTS

TREE MITIGATION

TREES REMOVED 98" DBH
TREES PRESERVED 98" DBH
TOTAL REPLACEMENT INCHES = 0" ADDITIONAL

10 PALMS REMOVED (10' CLEAR TRUNK OR TALLER)
10+ PALMS PRESERVED (10' CLEAR TRUNK OR TALLER)
TOTAL REPLACEMENT PALMS = 0 ADDITIONAL



NOTES:

1. SEE SHEET C2.0 FOR DEMOLITION NOTES.

PROPOSED FEATURES LEGEND

CONCRETE TO REMOVE
ASPHALT PAVEMENT TO REMOVE
TREES TO BE REMOVED

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LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION
FORT PIERCE, FLORIDA

LAWNWOOD PHYSICAL REHABILITATION CENTER
at LAWNWOOD REGIONAL MEDICAL CENTER & HEART INSTITUTE

GEORGE BRENT HUDLESTON III
LICENSE
No. 75608
6/23/15
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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C4.0
DEMOLITION PLAN

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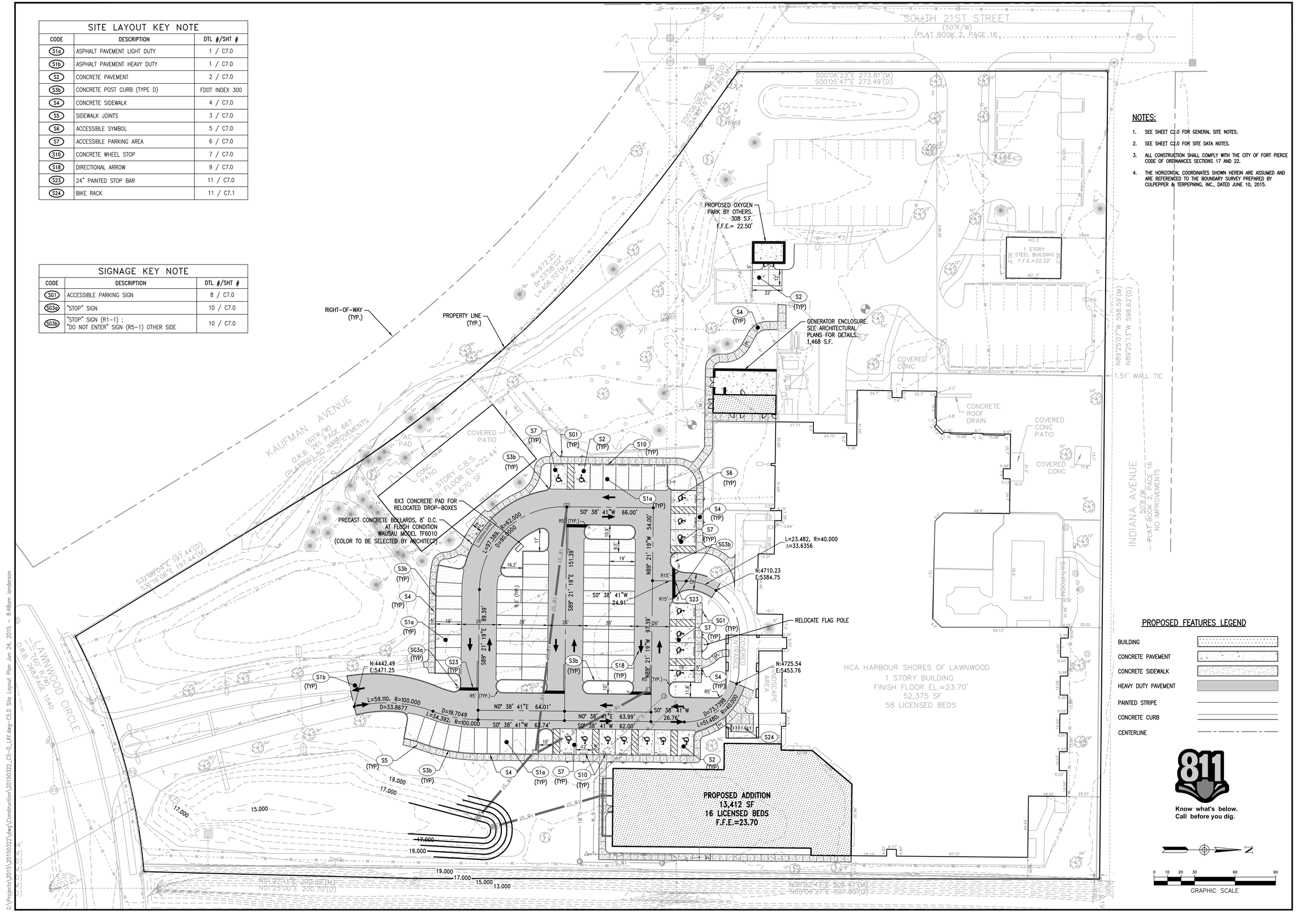
SITE LAYOUT KEY NOTE		
CODE	DESCRIPTION	DTL #/SHT #
S1a	ASPHALT PAVEMENT LIGHT DUTY	1 / C7.0
S1b	ASPHALT PAVEMENT HEAVY DUTY	1 / C7.0
S2	CONCRETE PAVEMENT	2 / C7.0
S3b	CONCRETE POST CURB (TYPE D)	FDOT INDEX 300
S4	CONCRETE SIDEWALK	4 / C7.0
S5	SIDEWALK JOINTS	3 / C7.0
S6	ACCESSIBLE SYMBOL	5 / C7.0
S7	ACCESSIBLE PARKING AREA	6 / C7.0
S10	CONCRETE WHEEL STOP	7 / C7.0
S18	DIRECTIONAL ARROW	9 / C7.0
S23	24" PAINTED STOP BAR	11 / C7.0
S24	BIKE RACK	11 / C7.1

SIGNAGE KEY NOTE		
CODE	DESCRIPTION	DTL #/SHT #
SG1	ACCESSIBLE PARKING SIGN	8 / C7.0
SG3a	"STOP" SIGN	10 / C7.0
SG3b	"STOP" SIGN (R1-1) ; "DO NOT ENTER" SIGN (R5-1) OTHER SIDE	10 / C7.0



NOTES:

1. SEE SHEET C2.0 FOR GENERAL SITE NOTES.
2. SEE SHEET C2.0 FOR SITE DATA NOTES.
3. ALL CONSTRUCTION SHALL COMPLY WITH THE CITY OF FORT PIERCE CODE OF ORDINANCES SECTIONS 17 AND 22.
4. THE HORIZONTAL COORDINATES SHOWN HEREIN ARE ASSUMED AND ARE REFERENCED TO THE BOUNDARY SURVEY PREPARED BY CULPEPPER & TERPEPNING, INC., DATED JUNE 10, 2015.

PROPOSED FEATURES LEGEND

- BUILDING
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- HEAVY DUTY PAVEMENT
- PAINTED STRIPE
- CONCRETE CURB
- CENTERLINE

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LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION
FORT PIERCE, FLORIDA

LAWNWOOD PHYSICAL REHABILITATION CENTER at Lawnwood Regional Medical Center & Heart Institute

GEORGE B. HUDDLESTON, III LICENSE NUMBER 75608 STATE OF FLORIDA PROFESSIONAL ENGINEER 6/23/15

DATE	REVISIONS
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C5.0
SITE LAYOUT PLAN

G:\Projects\2015\20150322\dwg\Construction\20150322_C5-0_LAY.dwg-C5.0 Site Layout Plan Jun 24, 2015 - 8:48am ianderson

NOTES:

1. SEE SHEET C2.0 FOR GRADING & DRAINAGE NOTES.
2. SEE SHEET C2.0 FOR UTILITY NOTES.
3. ALL ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

PROPOSED FEATURES LEGEND

STORM PIPE & INLET

SPOT ELEVATION + 91.8

PROPOSED CONTOUR 90

DRAINAGE STRUCTURE C3

DOMESTIC SERVICE 8"W

NEW FIRE HYDRANT

SPOT ELEVATION 16.8 TOP OF CURB / 16.3 BASE OF CURB

PROPOSED STORM SEWER PIPE TABLE

FROM		TO		GRADE	DIAMETER (IN)	TYPE	LENGTH (L.F.)
CODE	INV.	CODE	INV.				
A3	15.96	A2	15.58	0.21%	18	RCP	180
B1	15.95	A2	15.75	0.21%	18	RCP	94
A2	15.50	A1	15.00	0.86%	18	RCP	58
C4	15.97	C2	15.87	1.00%	15	RCP	10
C3	16.14	C2	15.87	1.00%	15	RCP	27
C2	15.77	C1	15.00	1.00%	18	RCP	77

PROPOSED STORM SEWER STRUCTURE TABLE

CODE	STRUCTURE DESCRIPTION	DETAIL	DEPTH	ELEVATION	
				TOP OF GRATE	INVERT
A1	MITERED END SECTION	FDOT 270	----	----	15.00
A2	CATCH BASIN	FDOT TYPE C	4.39	20.14	15.75
A3	CATCH BASIN	FDOT TYPE C	4.71	20.67	15.96
B1	CATCH BASIN	FDOT TYPE C	4.71	20.66	15.95
C1	MITERED END SECTION	FDOT 270	----	----	15.00
C2	STORM MANHOLE	S-7 / C7.2	7.33	23.20	15.87
C3	CLEANOUT	FDOT 270	6.86	23.00	16.14
C4	CLEANOUT	10 / C7.1	6.93	22.90	15.97

SITE UTILITY KEY NOTE

CODE	DESCRIPTION	DTL #/SHT #
U1	6" DIP WATER LINE	M-1 / C7.2
U2	FIRE HYDRANT ASSEMBLY	W-5 / C7.2
U3	6" GATE VALVE	M-6 / C7.2
U4	6" X 6" TEE	M-3 / C7.2
U5	6" 45° BEND	M-3 / C7.2
U11	18" SANITARY SEWER – CONCRETE ENCASED DIP	M-1 / C7.2
U12	SANITARY MANHOLE	S-7 / C7.2
U13	SANITARY LATERAL (8")	M-1 / C7.2
U14	SANITARY SEWER CLEANOUT	S-4b / C7.2
G21	TRANSITION FROM FLUSH CONDITIONS TO 6" CURB OVER 15 FEET	7 / C7.1
G22	MATCH EXISTING GRADE	.

PROPOSED SANITARY SEWER PIPE TABLE

FROM		TO		GRADE	DIAMETER (IN)	TYPE	LENGTH (L.F.)
CODE	INV.	CODE	INV.				
E4	12.76	E3	12.73	0.04%	18	PVC	80
E3	12.73	E2	12.71	0.04%	18	PVC	61
E2	12.71	E1	12.69	0.04%	18	PVC	57
F1	13.35	E1	12.69	1.00%	8	PVC	66

PROPOSED SANITARY SEWER STRUCTURE TABLE

CODE	STRUCTURE DESCRIPTION	DETAIL	DEPTH	ELEVATION	
				TOP OF GRATE	INVERT
E1	SANITARY MANHOLE	S-7 / C7.2	8.99	21.72	12.73
E2	SANITARY MANHOLE	S-7 / C7.2	9.74	22.45	12.71
E3	SANITARY MANHOLE	S-7 / C7.2	7.87	20.60	12.73
E4	SANITARY MANHOLE	S-7 / C7.2	8.46	21.22	12.76
F1	SANITARY CLEANOUT	S-4b / C7.2	9.35	22.70	13.35

SOUTH 21ST STREET (50'R/W) PLAT BOOK 2, PAGE 16

S00°06'23"E 273.81'(M) S00°05'47"E 273.49'(D)

S55°06'08"E 42.24'(M) S55°05'55"E 42.19'(D)

R=972.25' Δ=23°58'02" L=406.70'(M/D)

1 STORY C.B.S. FINISH FLOOR EL.=22.44 5,670 SF

KAUFMAN AVENUE (60'R/W) O.R.B. 261 PAGE 667 (PLATTED) NO IMPROVEMENTS

S31°58'04"E 197.44'(D) S31°16'06"E 197.44'(M)

LAWNWOOD CIRCLE (60' R/W) O.R.B. 2968, PAGE 1540

N01°27'11"E 200.92'(M) N01°25'00"E 200.70'(D)

HCA HARBOUR SHORES OF LAWNWOOD
1 STORY BUILDING
FINISH FLOOR EL.=23.70'
52,375 SF
58 LICENSED BEDS

1 STORY STEEL BUILDING F.F.E.=22.22'

PROPOSED ADDITION
13,412 SF
16 LICENSED BEDS
F.F.E.=23.70

EX. 6" WM

EX. WALL

BLUE RPM (TYP.)

COVERED PATIO

CONC PATIO

COVERED CONC

CONCRETE ROOF DRAIN

LANDSCAPE AREA

BATHROOM

1.51' WALL TIE

N89°25'07"W 598.59'(M) N89°25'13"W 598.62'(D)

INDIANA AVENUE (50'R/W) PLAT BOOK 2, PAGE 16 NO IMPROVEMENTS

S89°27'47"E 506.47'(M) S90°06'27"E 507.90'(D)

CROSSING: SURFACE ELEVATION: 22.25'
BOTTOM OF WATER PIPE: 17.83± (MIN.)
TOP OF SANITARY PIPE: 14.52±

Know what's below. Call before you dig.

GRAPHIC SCALE 0 10 20 30 60 90

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George B. Huddleston, III P.E. 73608
Edward A. Browder FLA LA6666790
Florida Firm Registration No. 28050

LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION

FORT PIERCE, FLORIDA

LAWNWOOD PHYSICAL REHABILITATION CENTER at Lawnwood Regional Medical Center & Heart Institute

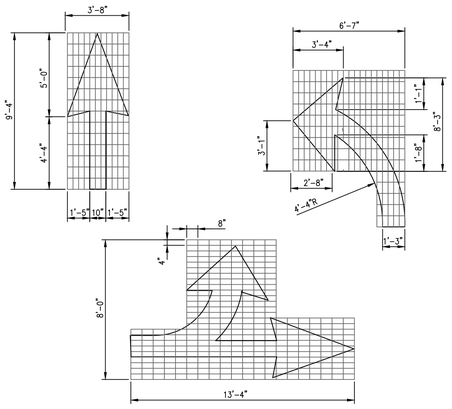
GEORGE B. HUDDLESTON, III LICENSED PROFESSIONAL ENGINEER No. 73608 STATE OF FLORIDA 6/23/15

DATE	REVISIONS
5/6/2015	20150322

C6.0

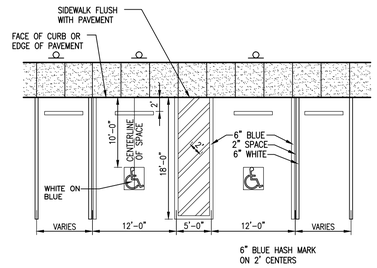
GRADING, DRAINAGE & UTILITY PLAN

G:\Projects\2015\20150322\dwg\Construction\20150322_C6-0_GRA.dwg-C6-0 Grading Drainage & Utility Plan Jun 24, 2015 - 8:55am landerson



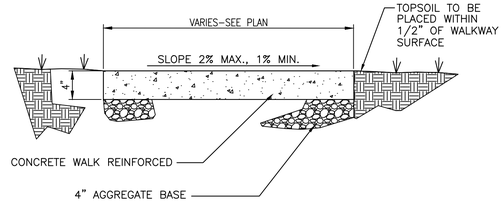
9 ROADWAY DIRECTIONAL ARROWS

NOT TO SCALE

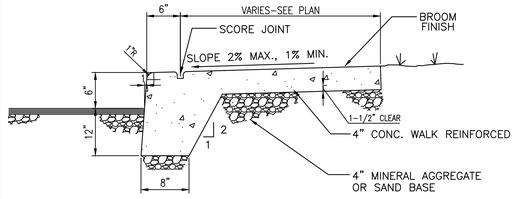


6 FLORIDA ACCESSIBLE PARKING DETAIL

NOT TO SCALE



CONCRETE SIDEWALK IN TURF AREA



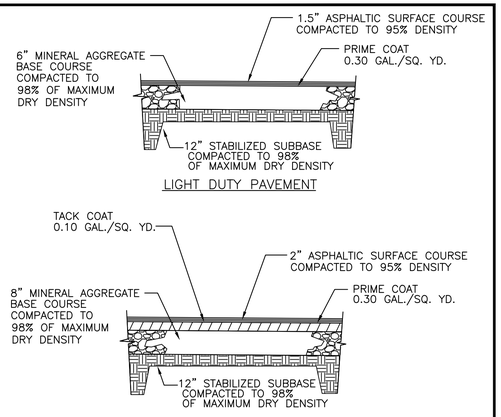
CONCRETE SIDEWALK AT TURN-DOWN CURB

NOTE:
SIDEWALK SECTION AND REINFORCEMENT TO BE PER FDOT INDEX 310 AND FDOT STANDARD SPECIFICATION SECTION 522.

USE 3500 PSI CONCRETE;
PROVIDE CONTROL JOINTS @ 5' CENTERS
PROVIDE EXPANSION JOINTS @ 25' CENTERS
AND WHERE SIDEWALKS ABUT RIGID MATERIAL

4 CONCRETE SIDEWALK

NOT TO SCALE

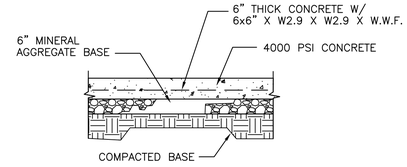


LIGHT DUTY PAVEMENT

HEAVY DUTY PAVEMENT

1 PAVEMENT SECTION

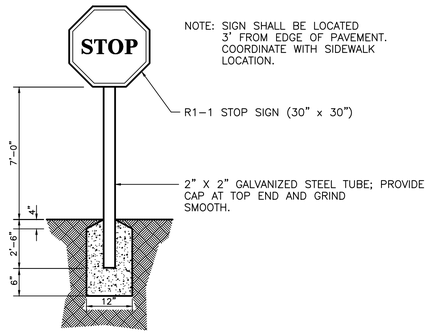
NOT TO SCALE



CONCRETE: 4000 PSI
STEEL: GRADE 60

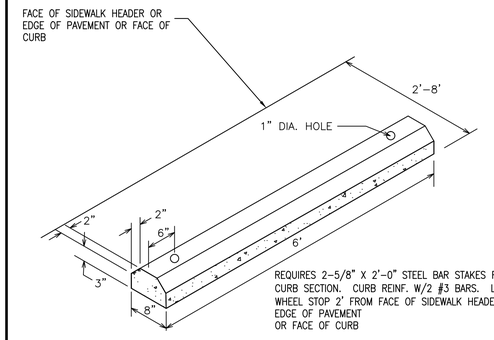
2 CONCRETE PAVEMENT

NOT TO SCALE



10 STOP SIGN

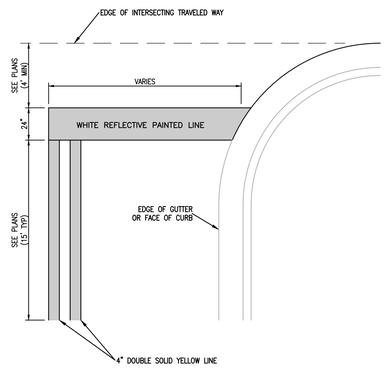
NOT TO SCALE



REQUIRES 2-5/8" X 2'-0" STEEL BAR STAKES FOR EACH CURB SECTION. CURB REINF. W/2 #3 BARS. LOCATE WHEEL STOP 2' FROM FACE OF SIDEWALK HEADER OR EDGE OF PAVEMENT OR FACE OF CURB

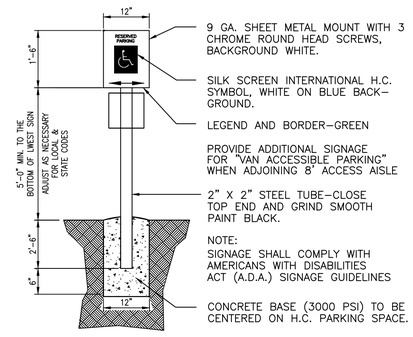
7 PRECAST CONCRETE WHEEL STOP

NOT TO SCALE



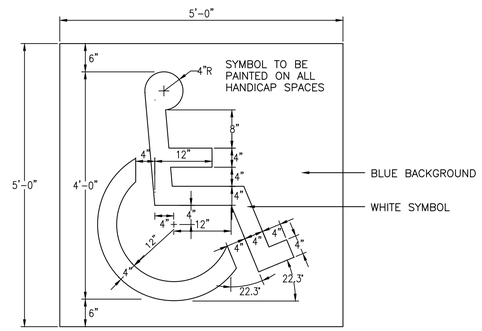
11 PAINTED STOP BAR

NOT TO SCALE



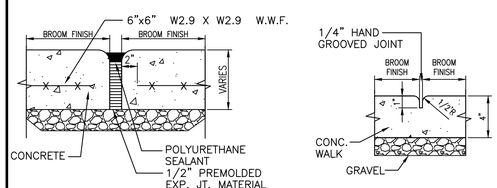
8 EXTERIOR ACCESSIBLE SIGN

NOT TO SCALE



5 PAINTED ACCESSIBLE SYMBOL

NOT TO SCALE



EXPANSION JOINT

CONTROL JOINT

5 SIDEWALK JOINTS

NOT TO SCALE

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

LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION

FORT PIERCE, FLORIDA

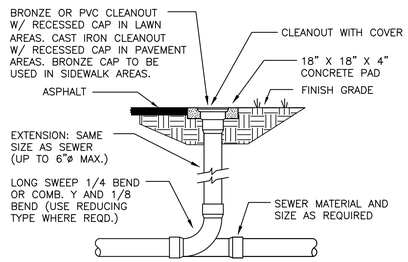
Lawnwood Physical Rehabilitation Center
at Lawnwood Regional Medical Center & Heart Institute

DATE	REVISIONS
5/6/2015	20150322

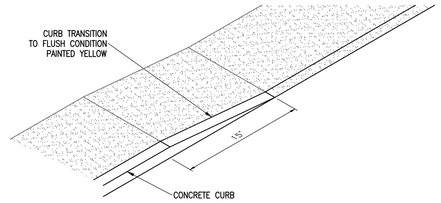
C7.0

DETAILS

C:\Projects\2015\20150322\dwg\Construction\20150322_C7-0_DET-0.dwg-C7.0 Details Jun 24, 2015 - 1:05pm ianderson



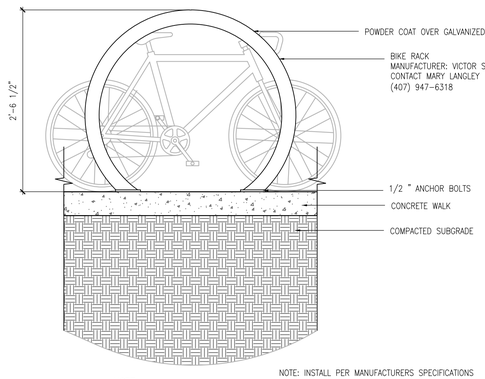
10 CLEANOUT
NOT TO SCALE



7 CURB TRANSITION
NOT TO SCALE

4 RESERVED
NOT TO SCALE

1 RESERVED
NOT TO SCALE



NOTE: INSTALL PER MANUFACTURERS SPECIFICATIONS

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

11 BICYCLE RACK AND PAD
NOT TO SCALE

8 RESERVED
NOT TO SCALE

5 RESERVED
NOT TO SCALE

2 RESERVED
NOT TO SCALE

9 RESERVED
NOT TO SCALE

6 RESERVED
NOT TO SCALE

3 RESERVED
NOT TO SCALE

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

LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION

FORT PIERCE, FLORIDA

Lawnwood Physical Rehabilitation Center
at Lawnwood Regional Medical Center & Heart Institute

DATE	REVISIONS
5/6/2015	20150322

C7.1
DETAILS

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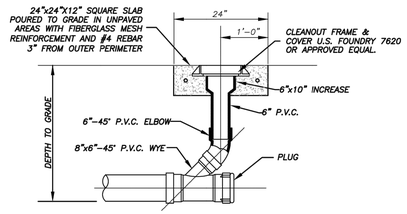
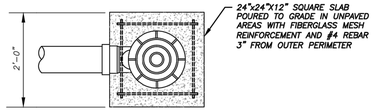


SECTION



PLAN

TERMINAL CLEANOUT DETAIL (COMMERCIAL)
(N.T.S.)

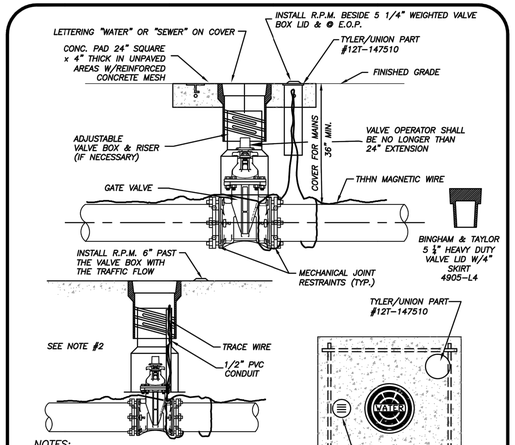
TERMINAL CLEANOUT DETAIL WASTEWATER			S-4B
10-08 DATE:	REVISION:	RBE BY:	APPD:
DESIGNED: JLC	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 3 OF 3	

FORT PIERCE UTILITIES AUTHORITY

FORT PIERCE UTILITIES AUTHORITY
WATER DISTRIBUTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
2. WATER MAINS WHERE SPECIFIED AS POLYVINYL CHLORIDE (PVC) SHALL CONFORM TO AWWA C-900 OR C-905, PRESSURE CLASS 150, DR (18). WATER MAINS WHERE SPECIFIED AS POLYETHYLENE (PE) SHALL CONFORM TO AWWA C-901 OR C-906, STANDARD CODE DESIGNATION PE3408, PIPE CLASS 200, DIMENSION RATIO (DR) 17 FOR DIRECT BURY, (DR) 11 FOR DIRECTIONAL BORING, AND (DR) 9 FOR 2 INCH AND SMALLER PIPELINES.
3. WATER MAIN, WHERE SPECIFIED AS DUCTILE IRON PIPE , SHALL CONFORM TO ANSI/AWWA C151/A21.51 AND SHALL BE PRESSURE CLASS 250 (MINIMUM).
4. POLYVINYL CHLORIDE WATER MAIN SHALL BE BLUE IN COLOR OR WHITE IN COLOR WITH BLUE STRIPES. THE USE OF IDENTIFICATION TAPE ATTACHED TO THE TOP OF THE PIPE MAY BE USED IN LIEU OF MARKING ON THE PIPE, ALSO DIP PIPE SHALL REQUIRE THE USE OF IDENTIFICATION TAPE AND THHN WIRE.
5. FITTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C-110/A21.10, CLASS 250 MIN., CEMENT LINED AND FACTORY COATED
6. GATE VALVES SHALL BE MUELLER RESILIENT SEAT, KENNDY KEN-SEAL, AMERICAN OR APPROVED EQUAL. VALVES SHALL CONFORM TO AWWA C-509.
7. WATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY, COUNTY, FDOT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THAN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
8. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE FPUA ENGINEER AND CITY/COUNTY/FDOT ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY FPUA ENGINEERING AND CITY/COUNTY/FDOT ENGINEERING 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
10. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, FPUA, AND CITY/COUNTY/FDOT ENGINEER SHALL BE MANDATORY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. TRAFFIC CONTROL, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF OF TRANSPORTATION STANDARDS AND APPROVED BY THE CITY ENGINEER.
12. MINIMUM COVER SHALL BE 36 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND CITY/COUNTY/FDOT ENGINEER. PIPES WITH COVER LESS THAN 30 INCHES SHALL BE CONSTRUCTED OF DUCTILE IRON OR IN PVC CASING.
13. DISTURBED AREAS SHALL BE RESTORED IN CONFORMANCE WITH THE APPLICABLE GOVERNING AGENCY REQUIREMENTS.
14. EXISTING UTILITIES AND DRAINAGE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND PROTECTED BY THE CONTRACTOR.
15. WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AWWA C-651 FOR DISINFECTION.

WATER DISTRIBUTION			G-1 NOTES
02-06 DATE:	REVISION:	BY:	APPD:
DESIGNED: JJM	COMPUTER FILE # DETAIL NOTES 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: JJM	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 2	

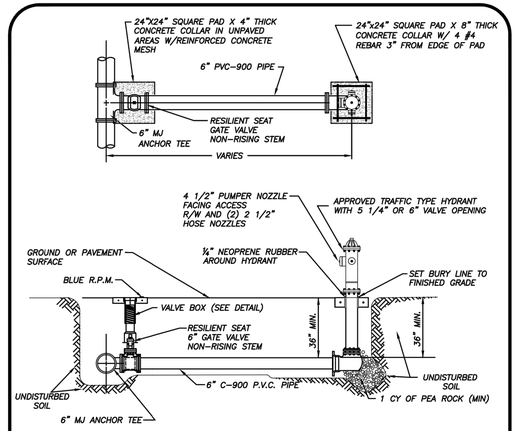


NOTES:

1. BLUE REFLECTIVE PAVEMENT MARKER (RPM) FOR WATER VALVES AND GREEN RPM FOR WASTEWATER VALVES PAVEMENT EDGE.
2. FOR WATER AND WASTEWATER VALVES INSTALLED IN PAVED AREAS, ELIMINATE CONCRETE PAD AND ENCASE THE MAGNETIC WIRE IN 1/2" PVC INSIDE THE VALVE BOX SEVEN INCHES BELOW GRADE.
3. DIP MAY BE USED AS RISERS ONLY IF A VALVE BOX IS NOT MANUFACTURED FOR THAT DEPTH. NO PVC RISERS SHALL BE USED IN ANY CIRCUMSTANCES.

TYPICAL GATE VALVE & VALVE BOX DETAIL
N.T.S.

TYPICAL GATE VALVE & VALVE BOX DETAIL			M-6
2015 DATE:	RPM PLACEMENT REVISION:	SLL BY:	JLC APPD:
DESIGNED: JLC	COMPUTER FILE # MISC. DETAILS 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	

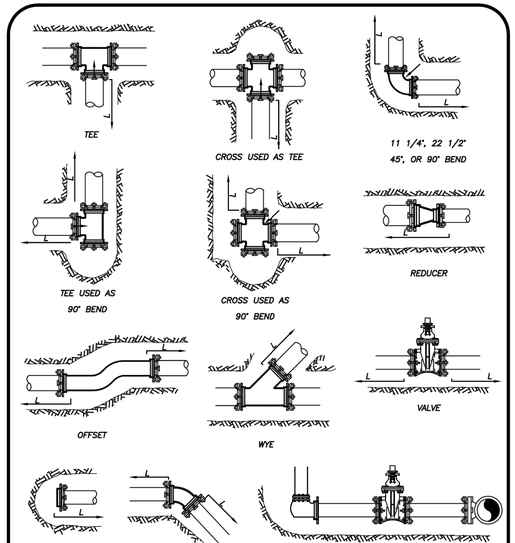


NOTES:

1. HYDRANT SHALL BE INSTALLED PLUMB & TRUE.
2. HYDRANT SHALL BE PAINTED CARNIVAL RED FROM FACTORY.
3. HEEL TO REST IN UNDISTURBED SOIL.
4. THE ONLY HYDRANTS ACCEPTABLE ARE: KENNEDY GUARDIAN, MUELLER CENTURION, & AMERICAN AVK, CLOW OR APPROVED EQUAL.
5. HYDRANT ASSEMBLY MUST BE RESTRAINED TO TEE.
6. ALL FITTINGS SHALL BE MECHANICAL JOINT.
7. ENTIRE ASSEMBLY TO BE MECHANICALLY RESTRAINED.
8. BLUE LOCATOR SHALL BE PLACED IN CENTER OF TRAVEL LANE CLOSEST TO HYDRANT.
9. ALL HYDRANT VALVE BOX COVERS SHALL BE PAINTED CARNIVAL RED.
10. LOCATE WIRE SHALL TERMINATE AT HYDRANT ISOLATION VALVE
11. HYDRANTS SHALL BE NO MORE THAN FIFTEEN FEET (15 FT.) FROM THE CURB OF ROADWAYS OR FROM THE EDGE OF PAVEMENT. CLEARANCES OF SEVEN AND ONE HALF FEET (7FT-6IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANTS, WITH FOUR FOOT (4 FT.) CLEARANCE TO THE REAR OF HYDRANTS SHALL BE MAINTAINED.

TYPICAL FIRE HYDRANT ASSEMBLY
(N.T.S.)

TYPICAL FIRE HYDRANT ASSEMBLY			W-5
03-09 DATE:	DESIGN REVISION:	SLL BY:	JLC APPD:
DESIGNED: JLC	COMPUTER FILE # WATERDETAIL.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	



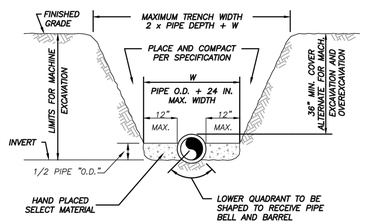
MECHANICAL JOINT ANCHORING REQUIREMENTS
N.T.S.

MECHANICAL JOINT ANCHORING REQUIREMENTS			M-3
2015 DATE:	MEGALUGS REVISION:	SLL BY:	JLC APPD:
DESIGNED: JJM	COMPUTER FILE # MISC. DETAILS 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: JJM	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	

FORT PIERCE UTILITIES AUTHORITY WASTEWATER CONSTRUCTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
2. GRAVITY SEWER MAIN SHALL BE POLYVINYL CHLORIDE SDR-26, GREEN OR WHITE IN COLOR, GRAVITY SEWER MAIN SHALL HAVE LOCATOR TAPE WITH "SEWER" MARKED ON TAPE AND SHALL CONFORM TO ASTM D-3034.
3. THE MANHOLE BASE SHALL BE SET ON A FIRM, DRY AND STABLE OR COMPACTED BASE FOUNDATION. IF NECESSARY, THE CONTRACTOR SHALL UTILIZE ROCK TO PROVIDE A FIRM AND SUITABLE MANHOLE BASE FOUNDATION.
4. WASTEWATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY ENGINEERING DEPARTMENT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THEN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
5. A 1% MINIMUM SLOPE SHALL BE MAINTAINED ON ALL SANITARY SERVICE LATERALS.
6. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER CONSISITING OF PIPE SIZES, LOCATION OF SERVICE TEE WYES, DIAMETER OF SERVICES, LOCATION OF ANY FITTINGS, FINAL RIM AND INVERT ELEVATION OF ALL MANHOLES AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT.
7. MAINTAIN SIX FEET AND PREFERABLY 10 FEET HORIZONTAL DISTANCE BETWEEN WATER MAINS AND SEWER MAINS AS A MINIMUM.
8. WASTEWATER FORCE MAINS, WASTEWATER COLLECTION LINES, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE SHALL BE PROVIDED WHENEVER POSSIBLE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER PIPE JOINTS ARE EQUIDISTANCE FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
9. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, AND FPUA/CITY COUNTY/FDOT SHALL BE MANDATORY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
10. NO FIELD CHANGES OR DEVIATIONS FORM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL FPUA/CITY/COUNTY/FDOT ENGINEER.
11. TRAFFIC CONTROL, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
12. CONTRACTOR SHALL NOTIFY FORT PIERCE UTILITIES AUTHORITY 48 HOURS PRIOR TO COMMMENCING CONSTRUCTION.
13. WASTEWATER FORCE MAIN SHALL BE POLYVINYL CHLORIDE CONFORMING TO AWWA C-900, AND SHALL BE CLASS 150, DR-18.
14. WASTEWATER FORCE MAIN SHALL BE GREEN IN COLOR.
15. FITTINGS SHALL BE DUCTILE IRON, CONFORMING TO ANSI/AWWA C-110/A21.10 CLASS 250 MIN. AND INTERIOR EPOXY COATED.
16. WASTEWATER FORCE MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN WIRE (GREEN IN COLOR) PERMANENTLY ATTACHED TO THE TOP OF THE FORCE MAIN WITH LOCATOR TAPE MARKED "SEWER" ON TAPE IN ACCORDANCE WITH FPUA SPECIFICATIONS.
17. MINIMUM COVER SHALL BE 36 INCHES, PIPES WITH COVER LESS THAN 30 INCHES SHALL REQUIRE PRIOR APPROVAL OF THE UTILITES ENGINEER AND SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
18. EACH SERVICE LATERAL WILL BE MARKED WITH A LOCATOR BALL AS MANUFACTURED BY 3M CORPORATION, OR APPROVED EQUAL AS REQUIRED BY FPUA ENGINEER.
19. ALL MANHOLES SHALL HAVE SEWER RAIN GUARDS INSTALLED AS REQUIRED BY FPUA ENGINEER.
20. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

WASTEWATER CONSTRUCTION NOTES FPUA REQUIREMENTS			G-2 CONSTRUCTION NOTES
02-06 DATE:	REVISION:	BY:	APPD:
DESIGNED: JJM	COMPUTER FILE # DETAIL NOTES 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: JJM	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	

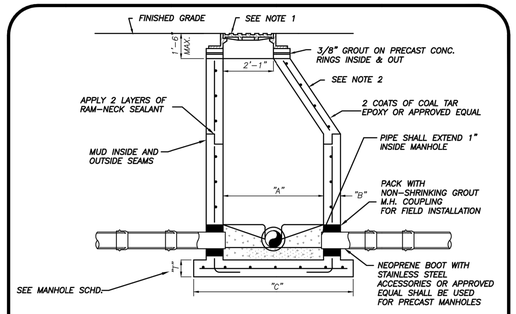


NOTES:

1) THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
2) INITIAL BACKFILL SHALL BE HAND PLACED TO 12" ABOVE THE PIPE. BACKFILL SHALL BE MECHANICALLY TAMPED TO A MINIMUM OF 100% OF MAX. DENSITY AS DETERMINED BY AASHTO METHOD T-99.

TYPICAL TRENCH DETAIL
N.T.S.

TYPICAL TRENCH DETAILS			M-1
DATE:	REVISION:	BY:	APPD:
DESIGNED: JJM	COMPUTER FILE # MISC. DETAILS 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: JJM	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	



PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	4'-0"	"9"	76"	8"
30"-36"	5'-0"	"9"	88"	10"
42"-48"	6'-0"	"9"	100"	12"

TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) RAIN GUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.

STANDARD MANHOLE
DEPTH 5'-0" AND GREATER
(N.T.S.)

PRECAST MANHOLE DEPTH 5'- 0" & GREATER			S-7
02-06 DATE:	REVISION:	BY:	APPD:
DESIGNED: JLC	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	

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

LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION
FORT PIERCE, FLORIDA

LAWNWOOD PHYSICAL REHABILITATION CENTER
at Lawnwood Regional Medical Center & Heart Institute

DATE	REVISIONS
5/6/2015	20150322

C7.2
FPUA DETAILS

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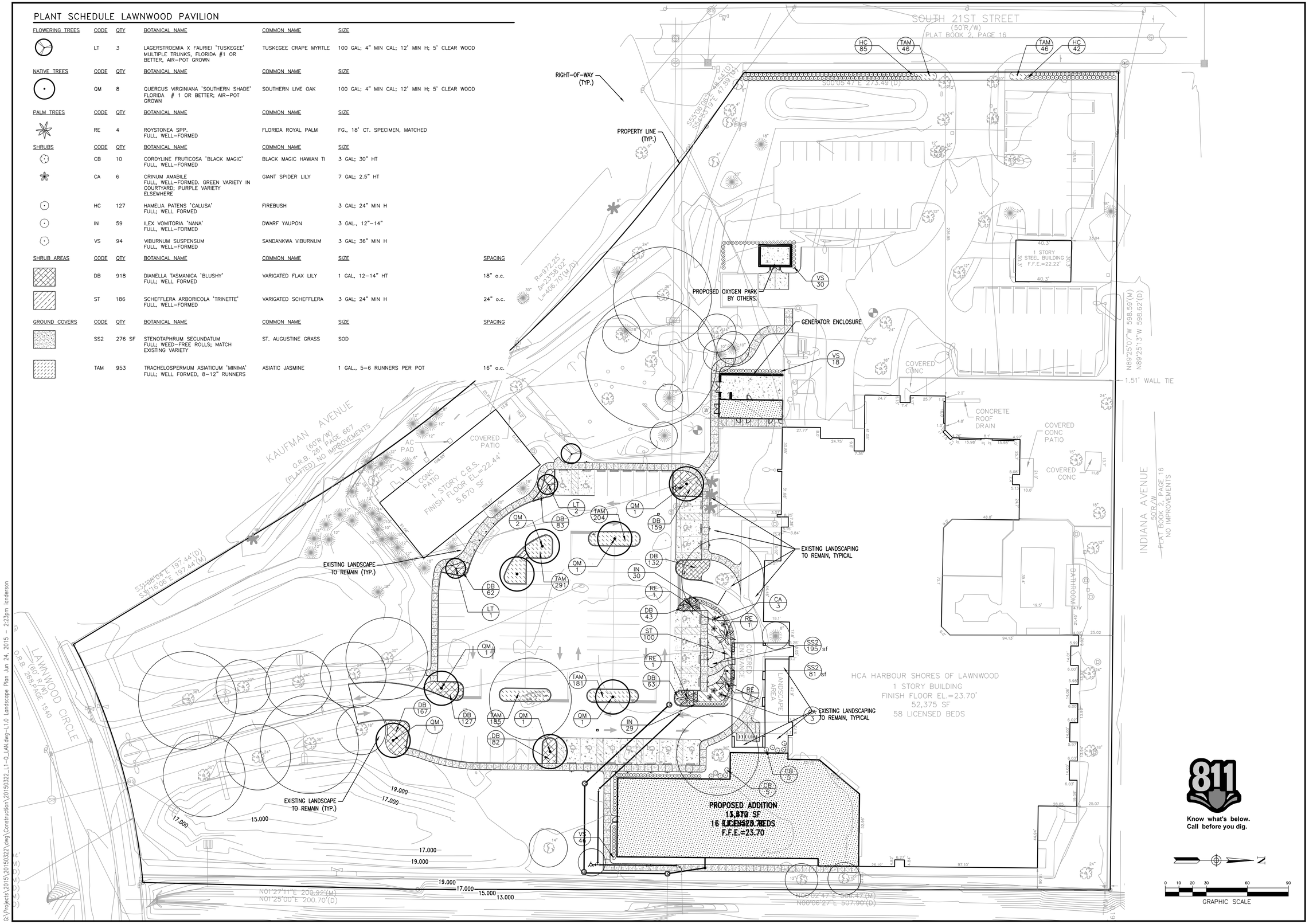
PLANT SCHEDULE LAWNWOOD PAVILION

FLOWERING TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	LT	3	LAGERSTROEMIA X FAURIEI 'TUSKEGEE' MULTIPLE TRUNKS, FLORIDA #1 OR BETTER, AIR-POT GROWN	TUSKEGEE CRAPE MYRTLE	100 GAL; 4" MIN CAL; 12' MIN H; 5' CLEAR WOOD
NATIVE TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**
	QM	8	QUERCUS VIRGINIANA 'SOUTHERN SHADE' FLORIDA # 1 OR BETTER; AIR-POT GROWN	SOUTHERN LIVE OAK	100 GAL; 4" MIN CAL; 12' MIN H; 5' CLEAR WOOD
PALM TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**
	RE	4	ROYSTONEA SPP. FULL, WELL-FORMED	FLORIDA ROYAL PALM	FG., 18' CT. SPECIMEN, MATCHED
SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**
	CB	10	CORDYLINE FRUTICOSA 'BLACK MAGIC' FULL, WELL-FORMED	BLACK MAGIC HAWIAN TI	3 GAL; 30" HT
	CA	6	CRINUM AMABILE FULL, WELL-FORMED. GREEN VARIETY IN COURTYARD; PURPLE VARIETY ELSEWHERE	GIANT SPIDER LILY	7 GAL; 2.5" HT
	HC	127	HAMELIA PATENS 'CALUSA' FULL; WELL FORMED	FIREBUSH	3 GAL; 24" MIN H
	IN	59	ILEX VOMITORIA 'NANA' FULL, WELL-FORMED	DWARF YAUPON	3 GAL., 12"-14"
	VS	94	VIBURNUM SUSPENSUM FULL, WELL-FORMED	SANDANKWA VIBURNUM	3 GAL; 36" MIN H
SHRUB AREAS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**SPACING**
	DB	918	DIANELLA TASMANICA 'BLUSHY' FULL; WELL FORMED	VARIGATED FLAX LILY	1 GAL, 12-14" HT	18" o.c.
	ST	186	SCHEFFLERA ARBORICOLA 'TRINETTE' FULL, WELL-FORMED	VARIGATED SCHEFFLERA	3 GAL; 24" MIN H	24" o.c.
GROUND COVERS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**SPACING**
	SS2	276 SF	STENOTAPHRUM SECUNDATUM FULL; WEED-FREE ROLLS; MATCH EXISTING VARIETY	ST. AUGUSTINE GRASS	SOD	
	TAM	953	TRACHELOSPERMUM ASIATICUM 'MINIMA' FULL; WELL FORMED, 8-12" RUNNERS	ASIATIC JASMINE	1 GAL., 5-6 RUNNERS PER POT	16" o.c.



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LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION

FORT PIERCE, FLORIDA

LAWNWOOD PHYSICAL REHABILITATION CENTER
at Lawnwood Regional Medical Center & Heart Institute

REGISTERED LANDSCAPE ARCHITECT
EDWARD ALLEN BROWDER
LA 6666790
STATE OF FLORIDA
6-23-15

DATE	REVISIONS
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LANDSCAPE PLAN

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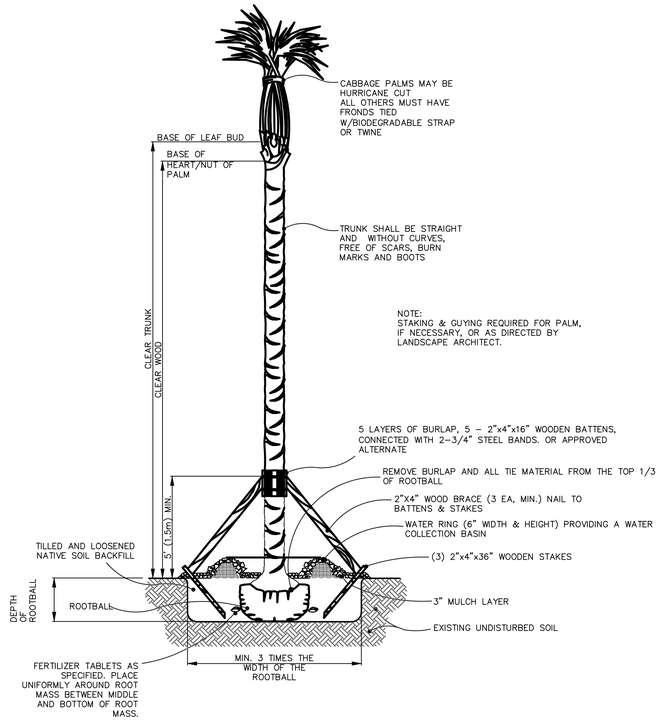
IRRIGATION NOTES:

1. CONTRACTOR TO COORDINATE WITH LANDSCAPE ARCHITECT REGARDING LIMITS OF IRRIGATION AND SYSTEM/MAIN LINE SIZING FOR FUTURE DEVELOPMENT NEEDS.
2. CONTRACTOR TO CONFIRM ADEQUATE PRESSURE EXISTS TO OPERATE SYSTEM PRIOR TO INSTALLATION. CONTRACTOR TO SPECIFY METER, BACKFLOW AND VALVE SIZE REQUIREMENTS.
3. IRRIGATION SPRINKLER HEADS SHALL BE MANUFACTURED BY EITHER TORO OR RAINBIRD. IRRIGATION CONTROLLER SHALL BE TORO VISION II MODEL OR APPROVED EQUAL. CONTRACTOR TO VERIFY WITH OWNER'S MAINTENANCE STAFF.
4. MAIN LINE TO BE CLASS 200 PVC PIPE. LATERAL LINES TO BE CLASS 150 PVC.
5. IRRIGATION SYSTEM TO BE OPERATIONAL BEFORE PLANTING MATERIALS MAY BE INSTALLED IN PLANTING BEDS.
6. INSTALL SPRINKLER HEADS ACCORDING TO MANUFACTURERS SPECIFICATIONS. FLUSH ALL LINES BEFORE INSTALLING NOZZLES.
7. WIRE CONNECTIONS TO BE MADE BY USING RAINBIRD MODEL ST-103/PT-ST SNAP-TITE CONNECTIONS.
8. LEAVE 18 INCHES OF ADDITIONAL WIRE AT EACH VALVE LOCATION. ROLL WIRE INTO COIL AT EACH LOCATION.
9. ALL VALVES SHALL BE LOCATED IN AMATEX 10 INCH CIRCULAR VALVE BOXES WITH COVER, OR EQUAL.
10. IRRIGATION CONTRACTOR TO COORDINATE PLACEMENT OF REQUIRED SLEEVES WITH GENERAL CONTRACTOR PRIOR TO PAVING AND CONCRETE INSTALLATION BEING COMPLETED.
11. SPRINKLERS IN PARKING PACE OVERHANGS SHALL BE LOCATED 18" BACK OF CURB.
12. SPRINKLERS IN ALL LANDSCAPE AREAS SHALL CLEAR ALL PLANT MATERIALS WHEN IN OPERATION.
13. ALL EXPOSED PVC PIPE SHALL BE PAINTED FLAT BLACK.

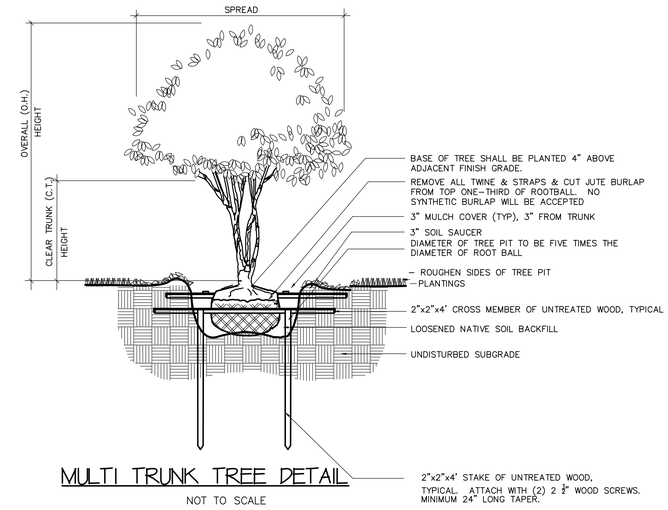
PLANTING NOTES

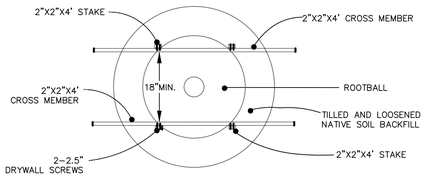
1. BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY SOTHERS. LITTLEJOHN AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.
2. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO CONFIRM ALL MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER THE MATERIAL SCHEDULE.
3. NO SUBSTITUTIONS AS TO TYPE, SIZE, OR SPACING OF PLANT MATERIALS SPECIFIED ON THIS PLAN MAY BE MADE WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
4. THE CONTRACTOR IS TO 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 CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. SOME UNDERGROUND UTILITIES WILL HAVE TO BE ADJUSTED TO ALLOW FOR THE INSTALLATION OF PROPOSED TREES.
5. ALL PLANTING BEDS TO RECEIVE MULCH AS SPECIFIED. SEE SPECIFICATION MANUAL.
6. NEW TREE PLANTINGS TO BE STAKED PER PLANTING DETAILS
7. DIMENSIONS LISTED FOR HEIGHTS, SPREAD AND TRUNK SPECIFICATIONS ON THE PLANT MATERIAL SCHEDULE ARE GENERAL GUIDE FOR THE MINIMUM REQUIRED SIZE OF EACH PLANT. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR INSTALLING PLANT MATERIAL THAT MEETS OR EXCEEDS LOCAL CODE REQUIREMENTS.
8. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANTING BEDS IMMEDIATELY PRIOR TO PLACEMENT OF MULCH FOR WEED CONTROL.
9. ALL DISTURBED AREAS OF THE SITE ARE TO BE SODDED WITH ST. AUGUSTINE SOD TO MATCH EXISTING.
10. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OVERNIGHT.
11. THE LANDSCAPE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS, LICENSES, ETC. AND SHALL GIVE ALL NOTICES AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, CODES, RULES AND REGULATIONS DURING THE COURSE OF THE INSTALLATION OF THIS PROJECT.
12. ALL PLANT MATERIALS TO BE NURSERY GROWN AND TO COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK FOR SIZE AND QUALITY.
13. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL OR ANY DEFECTIVE WORKMANSHIP.
14. ALL PLANTS SHALL HAVE A WELL-FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
15. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY PERCENT (50%) OF THIS YEARS VERTICAL GROWTH (TOP CANDLE).
16. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO OPENING ANY PLANT PITS.
17. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX INCHES OF WATER. THIS WATER SHOULD PERCOLATE OUT WITHIN A 24-HOUR PERIOD. THE OWNER OR LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A P V C DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTING RELOCATED.
18. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR OTHER SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, STEAM OF OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS, OTHERWISE THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
19. NO MATERIAL SHALL BE PLANTED BEFORE FINISH GRADING HAS BEEN COMPLETED.
20. EXISTING TREES TO BE PRESERVED ARE TO BE BARRICADED BEFORE BEGINNING CONSTRUCTION. IN ACCORDANCE WITH THE TREE PRESERVATION NOTES AND DETAILS ON THE CIVIL EROSION CONTROL PLANS.
21. SELECTIVE CLEARING CONSISTING OF REMOVAL OF VINES, SAPLINGS UNDER 1" DIAMETER AND UNDERBRUSH SHALL BE PERFORMED IN TREE PRESERVATION AREAS INTERNAL TO THE PROJECT AND NOTED ON PLANS.
22. ALL BEDS ARE TO BE TILLED TO A DEPTH OF 8" WITH THE ADDITION OF: (1) 6 CU. FT. BALE OR SPHAGNUM PEAT MOSS PER 40 SQ. FT. OF BED AREA; FERTILIZER AS PER SOIL TEST RECOMMENDATION. ALL ADDITIONS ARE TO BE SPREAD AND TILLED INTO THE SOIL UNIFORMLY.
23. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT WHEN THE PLANT MATERIALS ARE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



MULTI TRUNK TREE DETAIL

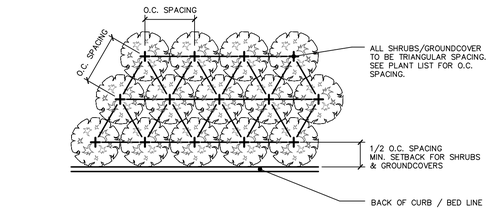
NOT TO SCALE





PALM PLANTING DETAIL

NOT TO SCALE



SHRUB & GROUNDCOVER SPACING DETAIL

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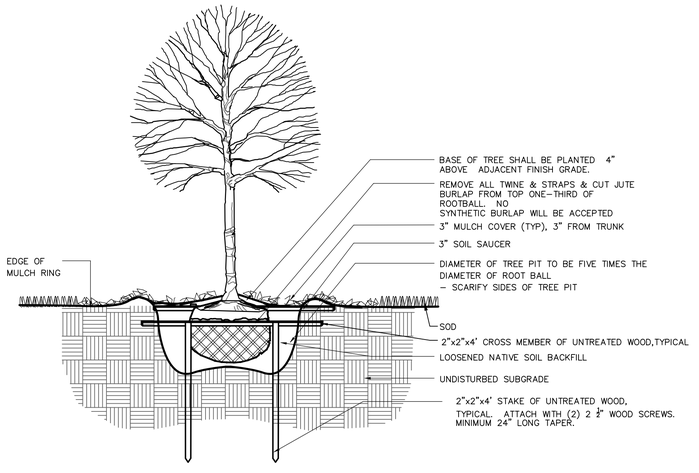

SINGLE TRUNK TREE DETAIL

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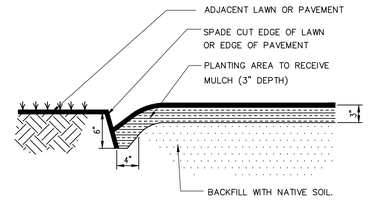

SPADE BED EDGE

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LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION

FORT PIERCE, FLORIDA

LAWNWOOD PHYSICAL REHABILITATION CENTER

REGISTERED LANDSCAPE ARCHITECT EDWARD ALLEN BROWDER LA 6666790 STATE OF FLORIDA
6-23-15

DATE	REVISIONS
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L2.0

LANDSCAPE DETAILS

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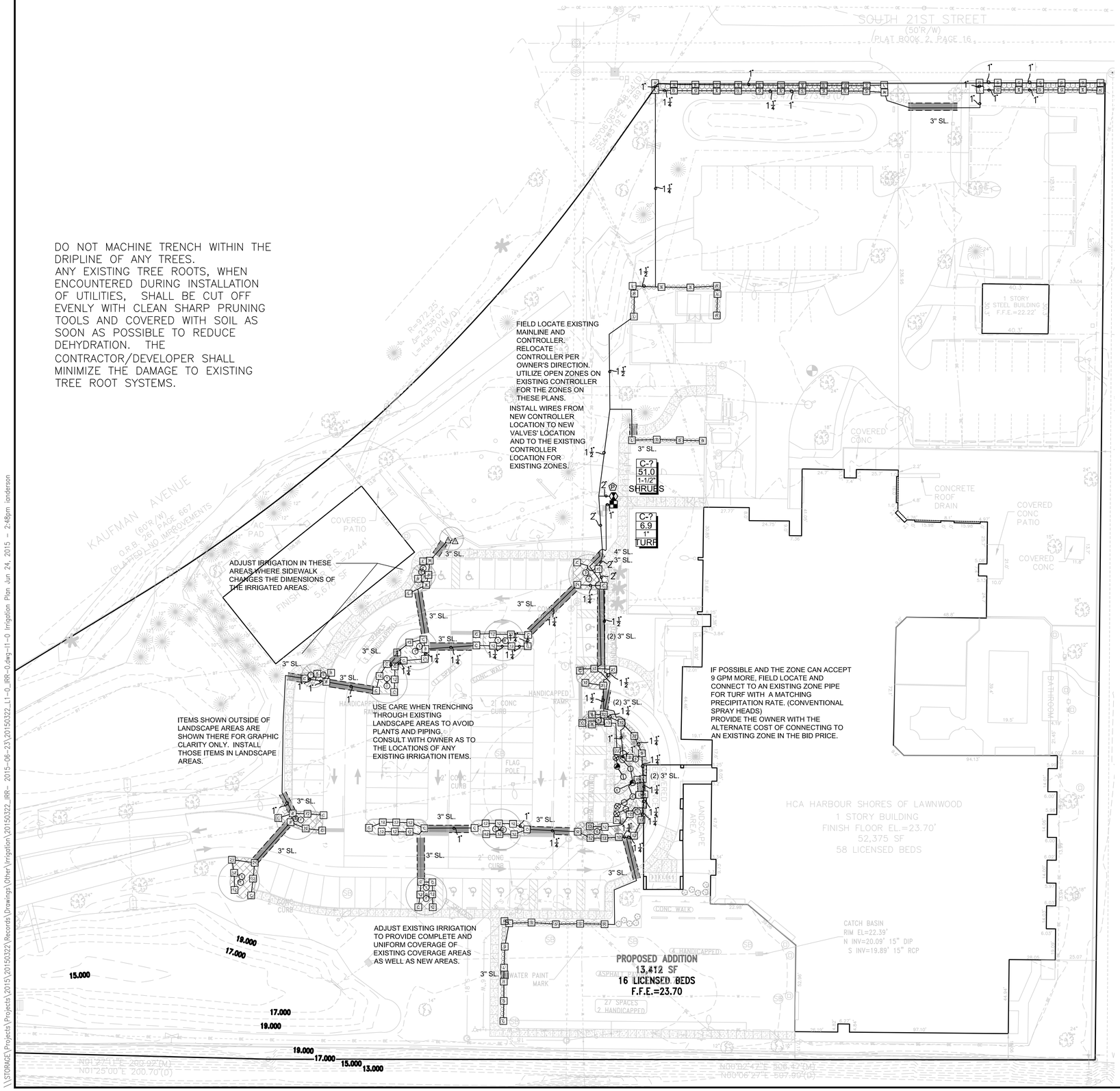
DO NOT MACHINE TRENCH WITHIN THE DRIPLINE OF ANY TREES.
ANY EXISTING TREE ROOTS, WHEN ENCOUNTERED DURING INSTALLATION OF UTILITIES, SHALL BE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS AND COVERED WITH SOIL AS SOON AS POSSIBLE TO REDUCE DEHYDRATION. THE CONTRACTOR/DEVELOPER SHALL MINIMIZE THE DAMAGE TO EXISTING TREE ROOT SYSTEMS.



LEGEND

- Rain Bird 1804 - 5Q PCS-010
- Rain Bird 1804 - 8Q PCS-020
- Rain Bird 1806 - 10H MPR Plastic Nozzle
- Rain Bird 1806 - 10Q MPR Plastic Nozzle
- Rain Bird 1806 - 10T MPR Plastic Nozzle
- Rain Bird 1806 - 12T MPR Plastic Nozzle
- Rain Bird 1806 - 15EST MPR Plastic Nozzle
- Rain Bird 1806 - 8H MPR Plastic Nozzle
- Rain Bird 1806 - 8Q MPR Plastic Nozzle
- L — Hunter PROS-12-PRS40 W/ MPLCS515
- R — Hunter PROS-12-PRS40 W/ MPRCS515
- S — Hunter PROS-12-PRS40 W/ MPSS530
- 8 — Hunter PROS-12-PRS40 W/ MP800SR-90
- C — Hunter PROS-12-PRS40 W/ MPCORNER
- 12 — Hunter PROS-12-PRS40 W/ MP1000-90
- 13 — Hunter PROS-12-PRS40 W/ MP1000-210
- 21 — Hunter PROS-12-PRS40 W/ MP2000-90 (90 Deg.)
- 22 — Hunter PROS-12-PRS40 W/ MP2000-90 (180 Deg.)
- Toro DL2000 Drip Tubing (2 Rows)
- Location of Vacuum/ Air Relief Valve, Line Flushing Valve and OPERIND
- Rain Bird 100-PESB 1" Valve w/ \Pr. Reg.
- Rain Bird 150-PESB 1-1/2" Valve w/ \Pr. Reg.
- Point-of-Connection to Existing Main Line
- Class 200 PVC Zone Pipe Routing
- Schedule 40 PVC Sleeve Location
- C-? 2.6 1" APPL — Valve Programming, Nominal Gallonage and Size

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NOTE:
CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILINIES AND SERVICE LINES PRIOR TO EXCAVATING FOR INSTALLATION OF PROPOSED AMENITIES & IRRIGATION.

0 10 20 30 60 90
GRAPHIC SCALE

COMPUTERIZED DESIGN SERVICES, INC.
3190 CEDAR HAMMOCK CT.
ST. CLOUD, FL 34772
407 957-4405

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at Lawnwood Regional Medical Center & Heart Institute

REGISTERED LANDSCAPE ARCHITECT
EDWARD ALLEN BROWDER
LA 6666790
STATE OF FLORIDA
6-8-15

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I1.0
IRRIGATION PLAN

\\STORAGE\Projects\Projects\2015\20150322\Records\Drawings\Other\Irrigation\20150322_IRR- 2015-06-23\20150322_I1-0_IRR-0.dwg-I1-0 Irrigation Plan Jun 24, 2015 - 2:48pm ianderson

NOTES

INSTALL ALL PIPING SHOWN BETWEEN DIFFERENT PIPE SIZES AS THE LARGER SIZED PIPE.

INSTALL ALL PIPING TO INDIVIDUAL HEADS AS 3/4".

INSTALL PIPING BETWEEN THE LAST MARKED PIPE AND PIPING TO INDIVIDUAL HEADS (WHERE NO OTHER MARKINGS SHOW) AS 3/4".

ANY IRRIGATION ITEMS NORMALLY INSTALLED IN LANDSCAPE AREAS THAT ARE SHOWN OUTSIDE OF LANDSCAPE AREAS OR OUTSIDE OF THE PROPERTY LINES ARE SHOWN AS SUCH FOR GRAPHIC CLARITY ONLY. INSTALL THESE ITEMS INSIDE OF PROPERTY LINES AND IN LANDSCAPE AREAS.

THIS SYSTEM REQUIRES 37 GPM AT 50 PSI AT THE POINT OF CONNECTION TO THE EXISTING SYSTEM. VERIFY GALLONAGE AND PRESSURES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT BEFORE COMMENCING WITH THE INSTALLATION.

PROVIDE PROOF TO THE LANDSCAPE ARCHITECT THAT ALL AVAILABLE MAINTENANCE MANUALS FOR EACH OF THE PRODUCTS INCLUDED IN THIS INSTALLATION HAVE BEEN PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE.

ADJUST THE IRRIGATION SYSTEM COMPONENTS AND EXISTING SYSTEM TO PROVIDE UNIFORM COVERAGE. ASSURE THAT THE SYSTEM PROVIDES 100% COVERAGE OF ALL LANDSCAPE MATERIALS INCLUDING SHRUBS, GROUND COVER, TREES AND TURF.

ADJUST THE VERTICAL ORIENTATION OF SPRINKLERS ON SLOPES TO PROVIDE UNIFORM COVERAGE OF THE SLOPED AREA.

IRRIGATION HEADS SHALL BE LOCATED MINIMUM ONE (1) FOOT FROM ANY WALL, COLUMN, OR BUILDING EDGE/FACE.

IRRIGATION HEADS SHALL BE DIRECTED AWAY FROM BUILDING AT ALL TIMES, SO THAT SPRAY DOES NOT HIT BUILDING FACE, COLUMN, WALL, ETC.

ANY EXISTING TREE ROOTS, WHEN ENCOUNTERED DURING INSTALLATION OF UTILITIES, SHALL BE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS AND COVERED WITH SOIL AS SOON AS POSSIBLE TO REDUCE DEHYDRATION. THE CONTRACTOR/DEVELOPER SHALL MINIMIZE THE DAMAGE TO EXISTING TREE ROOT SYSTEMS.

PROVIDE HAND WATERING FOR ESTABLISHMENT PERIOD FOR ALL TREES NOT LOCATED IN IRRIGATED AREAS OR THAT DO NOT HAVE BUBBLERS INSTALLED AT THOSE TREES.

CONSULT WITH THE OWNER AS TO LOCATIONS OF THIS SYSTEM'S INSTALLATION AS RELATED TO THE FUTURE PHASE OF THIS PROJECT TO MINIMIZE IMPACT ON THIS SYSTEM DURING THE FUTURE PHASES OF CONSTRUCTION.

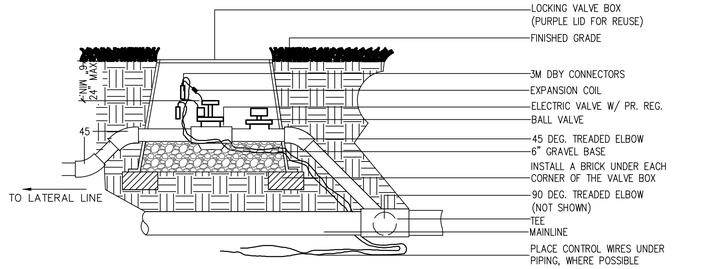
INSTALL MARLEX STREET ELLS FOR ALL HEADS ON RISERS AND ALL SPRINKLERS IN TURF.

INSTALL ALL OTHER SPRINKLERS WTH FUNNY PIPE AND SBE-050 FITTING. (USE SBE-075 IF THREADED FITTING ON PIPE IS 3/4".)

CONNECT TO THE EXISTING MAINLINE FROM THE PUMP AND WELL AS THE POINT OF CONNECTION.

ALL IRRIGATION HEADS IN SHRUBS/GROUNDCOVER AREAS SHALL BE INSTALLED ON RISERS. SEE DETAILS.

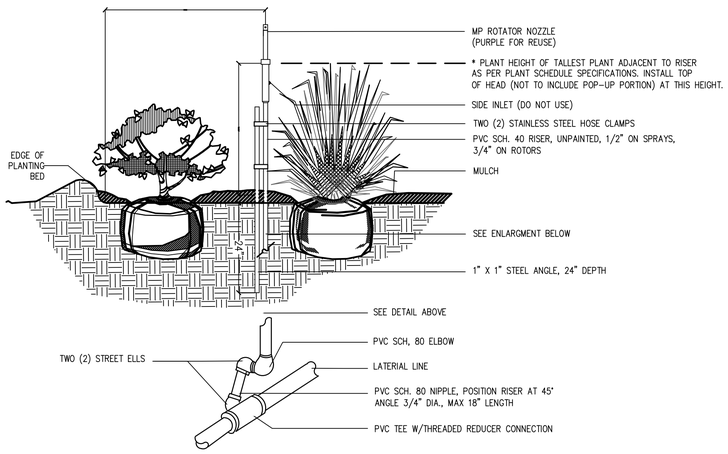
1 / 12-0 GENERAL NOTES
SCALE: N.T.S.

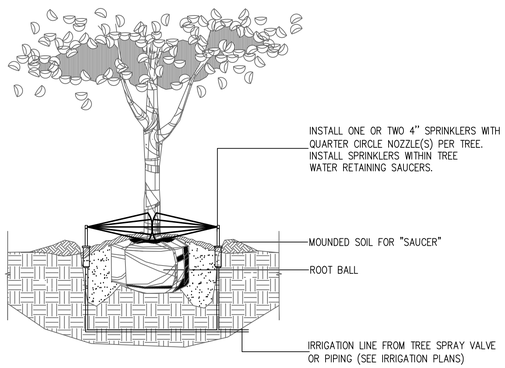


ASSURE THAT ALL CHANGES IN DIRECTION IN THE PIPING ARE THRUST BLOCKED OR RESTRAINED USING MECHANICAL MEANS ACCORDING TO INDUSTRY STANDARDS.

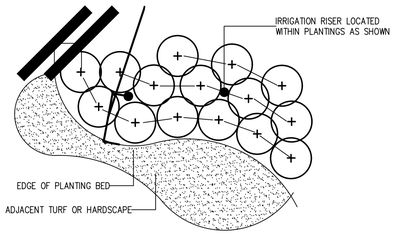
NOTE:
ALL VALVE BOXES SHALL BE MARKED WITH THE CHRISTY I.D. TAGS OR SUBSTITUTION ACCEPTABLE TO OWNER

2 / 12-0 ZONE VALVE INSTALLATION
SCALE: N.T.S.



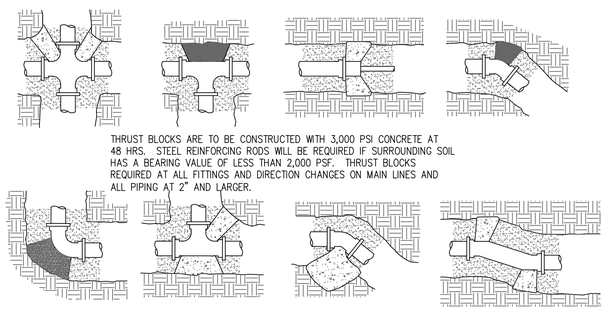


3 / 12-0 TREE SPRINKLER LOCATION
SCALE: N.T.S.



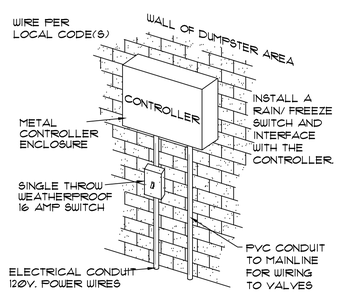
4 / 12-0 SPRAY/ROTOR LAYOUT IN SHRUB BED: PLAN
SCALE: N.T.S.

5 / 12-0 SPRAY/ROTOR LAYOUT IN SHRUB BED: SECTION
SCALE: N.T.S.



THRUST BLOCKS ARE TO BE CONSTRUCTED WITH 3,000 PSI CONCRETE AT 48 HRS. STEEL REINFORCING RODS WILL BE REQUIRED IF SURROUNDING SOIL HAS A BEARING VALUE OF LESS THAN 2,000 PSF. THRUST BLOCKS REQUIRED AT ALL FITTINGS AND DIRECTION CHANGES ON MAIN LINES AND ALL PIPING AT 2" AND LARGER.

6 / 12-0 THRUST BLOCK CONFIGURATIONS
SCALE: N.T.S.



7 / 12-0 WALL MOUNT CONTROLLER INSTALLATION
SCALE: N.T.S.

811
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NOTE:
CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILINIES AND SERVICE LINES PRIOR TO EXCAVATING FOR INSTALLATION OF PROPOSED AMENITIES & IRRIGATION.

DATE	REVISIONS
5/6/2015	20150322

12.0
IRRIGATION DETAILS

Littlejohn
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T 407.975.1273 F 407.975.1278 www.tleainc.com
Nashville I Chattanooga I Decatur I Huntsville I Knoxville I Orlando I Phoenix I Tri-Cities
George B. Huddleston, III P.E. 75608 Florida Firm Registration No. 28050
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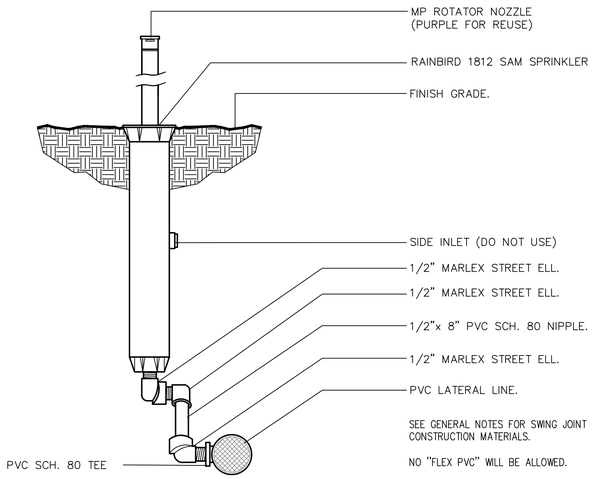
LAWNWOOD PHYSICAL REHABILITATION CENTER EXPANSION
FORT PIERCE, FLORIDA

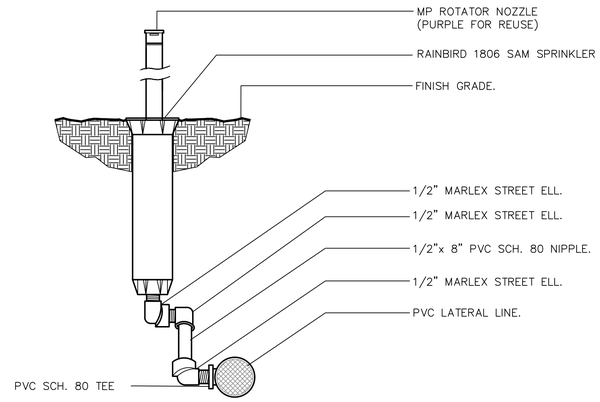
LAWNWOOD PHYSICAL REHABILITATION CENTER
at Lawnwood Regional Medical Center & Heart Institute

REGISTERED LANDSCAPE ARCHITECT EDWARD ALLEN BROWDER LA 6666790 STATE OF FLORIDA
6-8-15

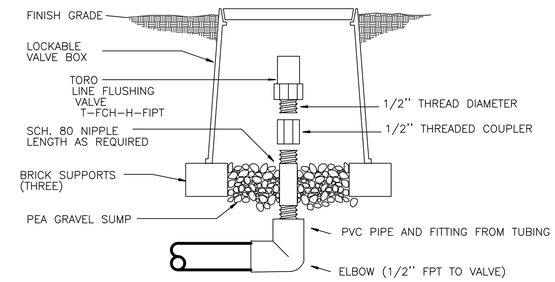
\\STORAGE\Projects\Projects\2015\20150322\Records\Drawings\Other\Irrigation\20150322_IRR- 2015-06-23\20150322_L1-0_IRR-0.dwg--12-0 Irrigation Details Jun 24, 2015 - 2:48pm ianderson



1 / 12-1 12" SPRAY HEAD AT GRADE DETAIL
SCALE: N.T.S.



2 / 12-1 4'' OR 6" SPRAY HEAD AT GRADE DETAIL
SCALE: N.T.S.



NOTE: INSTALL AT EACH AIR RELEASE VALVE LOCATION.

SECTION

3 / 12-1 LINE FLUSHING VALVE
SCALE: N.T.S.

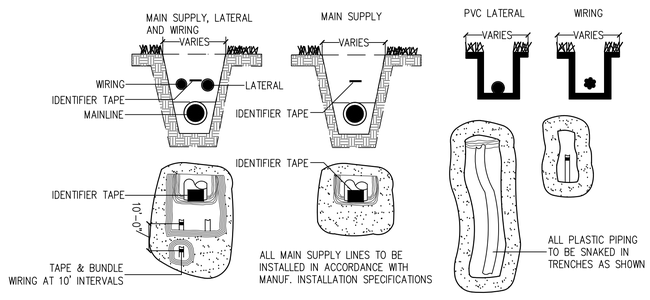
1. Thrust block bearing areas shall be poured against undisturbed material. Where trench wall has been disturbed, excavate all loose material and extend to undisturbed material.
2. Extend thrust block for full length of fittings. Put board in front of plug before pouring concrete. Joints shall not be covered by thrust block.
3. Rough blocking forms shall be used along sides of thrust blocks.
4. Thrust blocks shall be used in combination, as required, to suit the specific fitting arrangement.
5. Alternate designed restraining systems shall be provided where standard thrust blocking is not suitable.
6. All wood blocking shall be pressure treated with preservative.
7. Install a plastic bearier (Visquine) between fittings and thrust block.

4 / 12-1 THRUST BLOCK NOTES
SCALE: N.T.S.

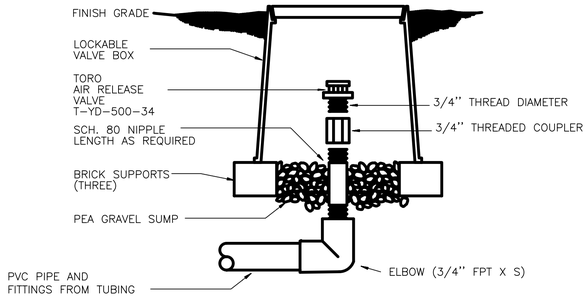
PIPE SIZE (inches)	90° BEND (Sq. Ft.)	45° BEND (Sq. Ft.)	22½° BEND (Sq. Ft.)	11¼° BEND (Sq. Ft.)	TEE OR PLUG (Sq. Ft.)	DESIGN PRESSURE (P.S.I.)
2	.5	.3	.2	.1	.4	150

NOTE: Thrust block areas computed on basis of 2000 lbs. per sq. ft. soil resistance bearing.

5 / 12-1 SCHEDULE OF THRUST BLOCK AREAS
SCALE: N.T.S.



7 / 12-1 PIPE AND WIRE TRENCH CONFIGURATION
SCALE: N.T.S.



SECTION

8 / 12-1 VACUUM / AIR RELIEF VALVE
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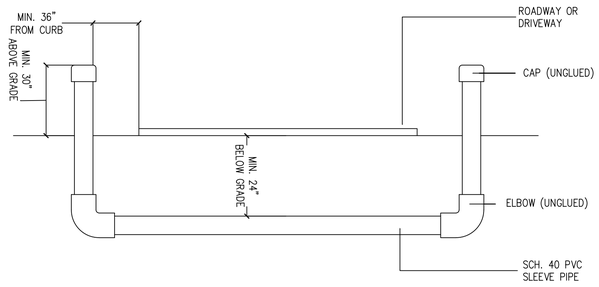
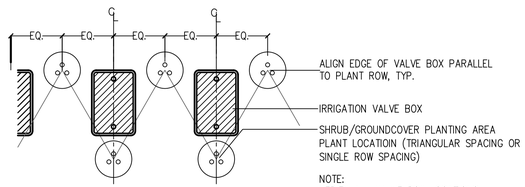


6 / 12-1 SLEEVE DETAIL
SCALE: N.T.S.



GROUPINGS IN SHRUB/GROUNDCOVER CONDITIONS
NO VALVE BOXES ARE ALLOWED IN TURF AREAS.

9 / 12-1 TYPICAL VALVE BOX GROUPING
SCALE: N.T.S.

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FORT PIERCE, FLORIDA

Lawnwood Physical Rehabilitation Center
at Lawnwood Regional Medical Center & Heart Institute

REGISTERED LANDSCAPE ARCHITECT
EDWARD ALLEN BROWDER
LA 6666790
STATE OF FLORIDA
6-23-15

DATE	REVISIONS
5/6/2015	20150322

12.1
IRRIGATION DETAILS

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1 FIRST FLOOR - AREA A

1/8" = 1'-0"

#	DATE	CHANGE DESCRIPTION
1	06/19/15	REVISIONS FOR DEVELOPMENT SUBMITTAL

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AT LAWNWOOD REGIONAL MEDICAL CENTER & HEART INSTITUTE

Lawnwood Medical Center Expansion & Renovation

1860 N. Lawnwood Circle Fort Pierce, FL 34950

for

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Phone: (614) 461-4664
Fax: (614) 280-8881
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LICENSE
No. AR91699
06/19/15
STATE OF FLORIDA
REGISTERED ARCHITECT
DANIEL R. PICKETT
FLA NO: AR-91699

Dwg. Coord.: Author Tech. Coord.: Checker 15078.01

FIRST FLOOR PLAN - AREA A

A1-1

CONSTRUCTION DOCUMENTS 05/05/15

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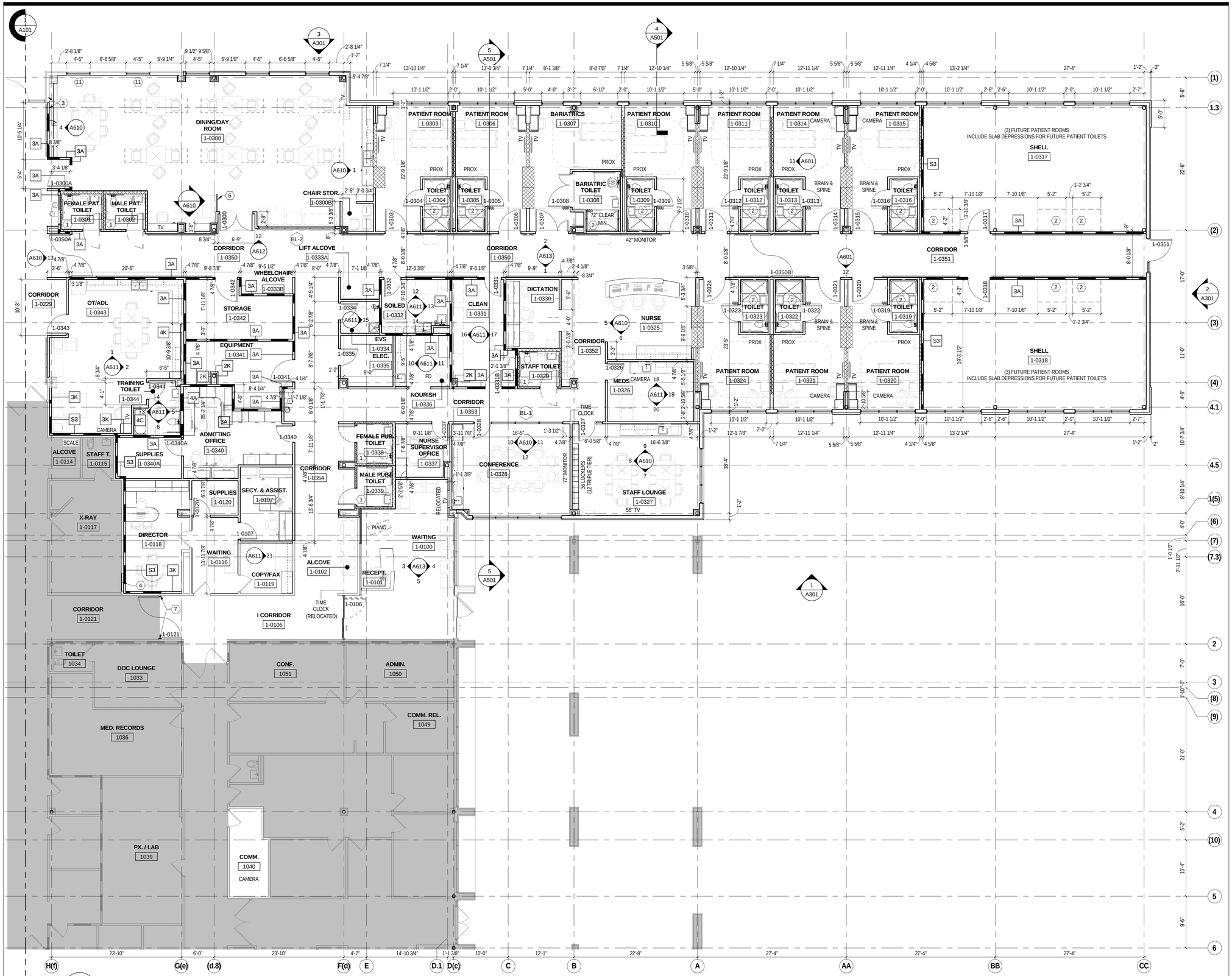

1 FIRST FLOOR - AREA B

1/8" = 1'-0"

#	DATE	CHANGE DESCRIPTION
1	06/19/15	REVISIONS FOR DEVELOPMENT SUBMITTAL

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DANIEL R. PICKETT
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FIRST FLOOR PLAN - AREA B	A1-2
CONSTRUCTION DOCUMENTS	05/05/15

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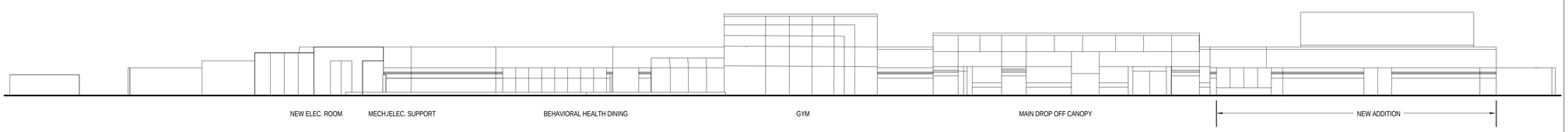

1 **ELEVATION** SOUTH ELEVATION
1/16" = 1'-0"

EXTERIOR MATERIALS/COLORS:

- WALL - EIFS - MATCH EXISTING GOLD
- WINDOWS/DOORS - DARK BROWN FRAMES, BRONZE TINTED GLASS - MATCH EXISTING
- ROOF SCREEN - PERFORATED METAL PANEL - NATURAL FINISH - GALVANIZED

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EXTERIOR ELEVATIONS | A200

CONSTRUCTION DOCUMENTS | 05/05/15

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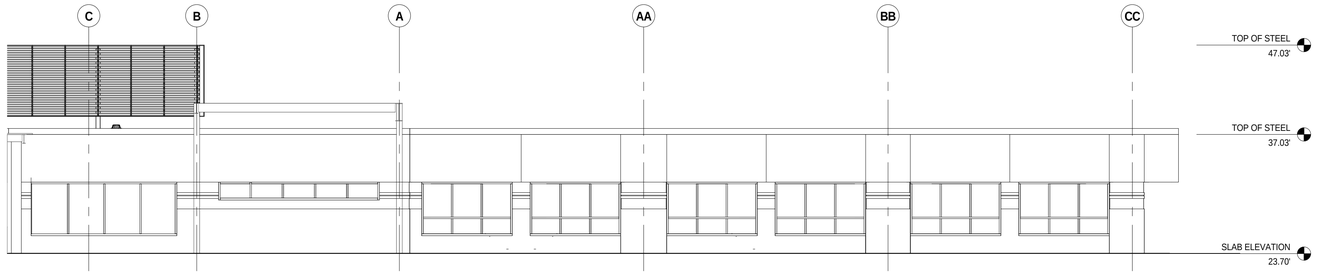
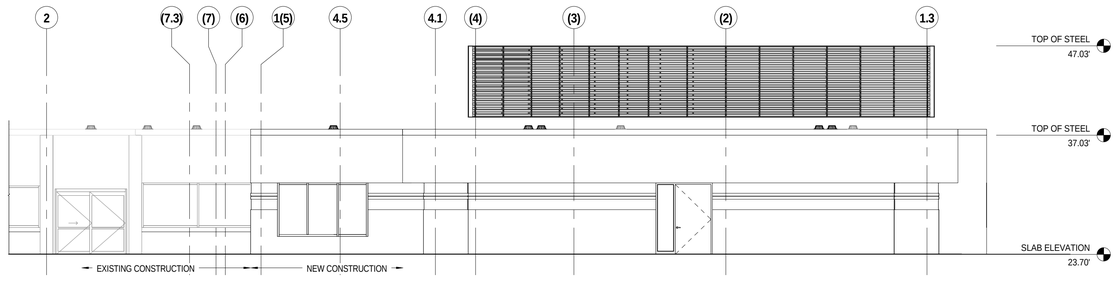
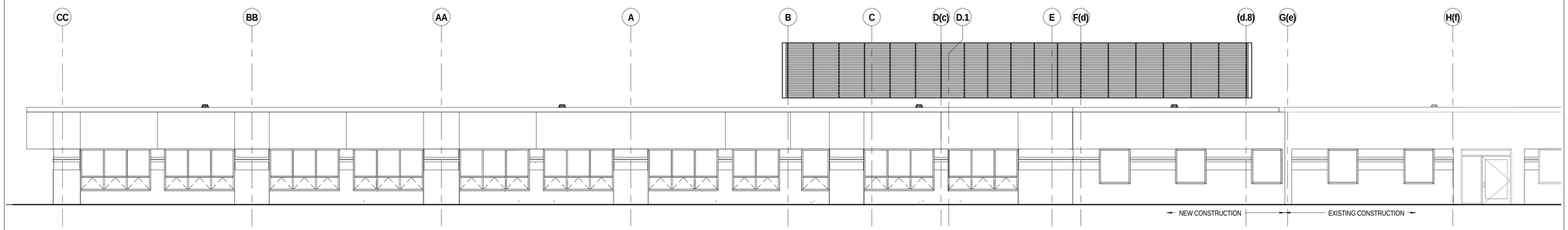


3 ELEVATION WEST
1/8" = 1'-0"



2 ELEVATION SOUTH
1/8" = 1'-0"



1 ELEVATION EAST
1/8" = 1'-0"

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EXTERIOR MATERIALS/COLORS:

- WALL - EIFS - MATCH EXISTING GOLD
- WINDOWS/DOORS - DARK BROWN FRAMES, BRONZE TINTED GLASS - MATCH EXISTING
- ROOF SCREEN - PERFORATED METAL PANEL - NATURAL FINISH - GALVANIZED

#	DATE	CHANGE DESCRIPTION
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A300

EXTERIOR ELEVATIONS

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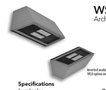

WST LED
Architectural Wall Sconce

Catalog Number
Notes
Type

Introduction

The classic Architectural Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 75% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity.

The WST LED is ideal for replacing existing 50 – 175W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Specifications

Luminaire

Height: 7-1/4" (184 mm)
Width: 16-1/4" (413 mm)
Depth: 6-1/8" (157 mm)
Weight: 17 lbs (7.7 kg)

Optional Back Box (BBW)

Height: 8" (203 mm)
Width: 5-1/2" (140 mm)
Depth: 1-1/2" (38 mm)

Ordering Information

EXAMPLE: WST LED 2 10A700/40K SR3 MVOLT DDBTXD

WST LED									
Series	Light Engines	Performance Package	Distribution	Voltage	Mounting	Options*	Finish (required)
WST LED	1 One engine (10-20W)	10A700/40K 10A700/50K 10A700/MVOLT 40SR	SR2 Type II SR3 Type III	MVOLT 347 480	Shipped included SRM Surface mount PBBW Surface mount with back box (required for 2 engine configurations)	Shipped separately* BBW Surface mount back box (required for 2 engine configurations) WG Wire guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DBBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone
	2 Two engines (20-40W)	10A700/40K 10A700/50K 10A700/MVOLT 40SR		120 208 240 277	PE Photocontrol, button type (MVOLT only) DMG 0-10V dimming driver (not available with PE) ELCW Emergency battery backup* SCE Single Circuit Enable* PIR Motion sensor for 360° coverage, 7' mounting height (MVOLT only) PIRH Motion sensor for 360° coverage, 15' mounting height (MVOLT only)		

Emergency Battery Operation

The emergency battery backup (ELCW option) is integral to the luminaire - no external housing required! This design provides reliable emergency egress illumination during normal power outages.

All ELCW configurations include an independent secondary driver with an integral relay to immediately detect AC power loss. Dual light engines are used to provide a cost-effective approach to emergency mode and provide additional component redundancy. These design features ensure dependable performance.

The emergency battery will power the luminaire for a minimum duration of three hours from the time AC power is interrupted. Integral self-test circuitry is included to automatically perform code-required tests. Push-to-test switch is mounted at an appropriate height and illuminates an open space with no major obstructions.

The luminaire is light when illuminated at 90° from the mounting surface. Refer to the diagrams below for the single-engine Type IV product in MVOLT only.

WST LED 1 10A700/40K SR3 MVOLT ELCW
10' x 10' Grid/Zone
8' and 12' Mounting Height

NOTES

1. ELCW option operates on any line voltage from 120-277V AC/DC (for Specific 120, 208, 240, or 277 options only select ordering with universal voltage (MVOLT) is recommended).
2. For 2 engine configurations, the ELCW option is only available with SR2 Type II distribution.
3. Must be ordered with PE/Cell for Dusk/Dawn operation.
4. Integral battery pack is rated for 90 minutes minimum duration of three hours from the time AC power is interrupted. Battery pack is maintained at 32°F (0°C) and above. Smaller than 200 cubic inch battery pack. Operates from 120-277V AC voltage input.
5. Not available with MRM options. Not available with 2 engine configurations (20-40W).
6. Integral battery pack is rated for -20° to 65°C ambient temperature range. Not available with PIR or PIRH. Cannot be ordered with 347V or 480V. Type IV only.
7. WG is not available with PIR or ELCW.
8. Suitable for mounting on combustible surfaces. Do not mount directly over J-box.
9. Luminaire is factory-configured for use with the specified options. Field modification may void warranty and/or affect listing. Consult factory for assistance.

Lithonia Lighting, One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8441 • Fax: 770.918.1209 • www.lithonia.com
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Performance Data

Lumen Output

Ratings are based on laboratory tests performed in accordance with ASTM E2166/IES LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual wattage may differ by +/-10% and values may differ by +/-5% when operated on 120V, 208V, 240V, 277V, 347V or 480V power supplied to the luminaire.

Light Engine Configuration	System Watts	Drive Current (mA)	Delivered Lumens	LED Package Count	Color Temperature	Distribution	Lumens per Watt
						SR2	SR3
10A700/40K	19	700	1,900	10	4000K	1,900	1,900	100
10A700/50K	19	700	1,900	10	5000K	1,900	1,900	100
20A700/40K	38	1400	3,800	20	4000K	3,800	3,800	100
20A700/50K	38	1400	3,800	20	5000K	3,800	3,800	100

1 The electrical load data for 347/480V options apply.

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for this luminaire when operating in ambient temperatures other than 25°C.

Ambient Temperature	Lumen Multiplier
0°C	1.04
10°C	1.03
20°C	1.01
25°C	1.00
30°C	0.99
40°C	0.97

Projected LED Lumen Maintenance

Data references the extrapolated projected performance of the WST LED 2 10A700 configuration operating in a 25°C ambient per IESNA TM-21-11. Interpolation of 25°C data per IESNA LM-80-08 and projected per IESNA TM-21-11.

To calculate L70 use the lumen maintenance factor that corresponds to the desired number of hours from the table below and multiply the factor by the values listed in the Performance Data table above.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.89	0.77

Electrical Load

Light Engine Configuration	System Watts	Current (A)					
		Voltage	120	208	240	277	347	480
1	19W	10W	0.09	0.06	0.05	0.05	n/a	n/a
		20W	0.18				0.06	0.05
2	38W	20W	0.18	0.07	0.07	0.06	n/a	n/a
		40W					0.12	0.10

For photometric testing, data is collected every 5 degrees vertically and horizontally through 360 degrees. Distribution overlay comparisons to 175W metal halide.

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED mini-site.

Isocandela plots for the WST LED 2 10A700/40K SR2, SR3, and SR4. Distances are in units of mounting height (MH).

FEATURES & SPECIFICATIONS

INTENDED USE
The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long-life LEDs and driver make this luminaire virtually maintenance free.

CONSTRUCTION
Rugged, die-cast aluminum housing maximizes sensible heat transfer to optimize thermal transfer from the internal light engine heat sinks and prevents long life. The driver is mounted to the housing for optimal heat sinking and ease of maintenance. The housing and door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

OPTICS
Precision-formulated acrylic lenses are engineered for superior distribution, uniformity, and spacing to-mounting-height applications. Light engines are IESNA LM-79 and LM-80 tested and binned to ensure consistent color temperature. Color consistency is achieved with the LEDRA 4-Step Quad Binning™ criteria for eliminating wavelength spillover.

ELECTRICAL
Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (L70/50K hours at 25°C ambient, per IESNA TM-21-11 calculations). Class 2 power supply. Power factor is >90%. Total harmonic distortion is less than 20%. Complies with FCC 47 CFR Part 15, Subpart B, Class A.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down providing easy access to the electrical compartment. Two 1/2" conduit entry holes in the mounting plate provide versatility for field adjustment or wiring installation.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP65 rated. Luminaire is IP65 rated and suitable for wet locations when mounted with the lens down. SR2 option offers Type II distribution. SR3 option offers Type III distribution. SR4 option offers Type IV distribution.

Designed per Illuminating Engineering Society of North America (IESNA) guidelines. Not all versions of the product may be listed. Consult factory for Certified Powder Coat and other designer/custom color options and availability.

WARRANTY
For complete warranty terms visit our warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.

Lithonia Lighting, One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8441 • Fax: 770.918.1209 • www.lithonia.com
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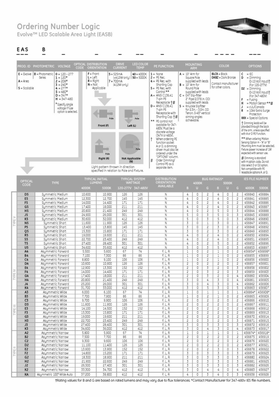
GE
Lighting

Evolve™ LED Area Light
Scalable Area Light (EASB)

imagination at work

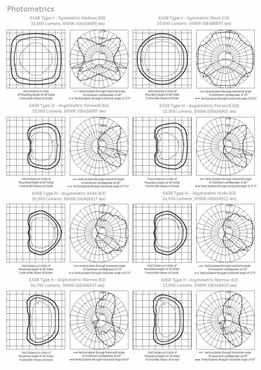
Ordering Number Logic
Evolve™ LED Scalable Area Light (EASB)



OPTICAL SYSTEM	CATALOG NUMBER	DRIVE CURRENT (mA)	LED COUNT	SYSTEM WATTS	DELIVERED LUMENS	LUMINOUS EFFICACY (LPW)	DISTRIBUTION TYPE	BUG RATING*				LEED v4 BUG RATING**	
								B	U	G		B	U	G
P5	EvolveEASB_P5_40K	530	40	73	9,000	123	V	3	5	3		3	5	3
P5	EvolveEASB_P5_50K	530	40	73	9,000	123	V	3	5	3		3	5	3
P5	EvolveEASB_P5_MVOLT	530	40	73	9,000	123	V	3	5	3		3	5	3
P5	EvolveEASB_P5_40K	700	40	96	12,000	125	V	3	5	3		3	5	3
P5	EvolveEASB_P5_50K	700	40	96	12,000	125	V	3	5	3		3	5	3
P5	EvolveEASB_P5_MVOLT	700	40	96	12,000	125	V	3	5	3		3	5	3
P5	EvolveEASB_P5_40K	1050	40	144	17,000	118	V	3	5	3		3	5	3
P5	EvolveEASB_P5_50K	1050	40	144	17,000	118	V	3	5	3		3	5	3
P5	EvolveEASB_P5_MVOLT	1050	40	144	17,000	118	V	3	5	3		3	5	3
P4	EvolveEASB_P4_40K	530	40	73	9,000	123	IV	3	5	3		3	5	3
P4	EvolveEASB_P4_50K	530	40	73	9,000	123	IV	3	5	3		3	5	3
P4	EvolveEASB_P4_MVOLT	530	40	73	9,000	123	IV	3	5	3		3	5	3
P4	EvolveEASB_P4_40K	700	40	96	12,000	125	IV	3	5	3		3	5	3
P4	EvolveEASB_P4_50K	700	40	96	12,000	125	IV	3	5	3		3	5	3
P4	EvolveEASB_P4_MVOLT	700	40	96	12,000	125	IV	3	5	3		3	5	3
P4	EvolveEASB_P4_40K	1050	40	144	17,000	118	IV	3	5	3		3	5	3
P4	EvolveEASB_P4_50K	1050	40	144	17,000	118	IV	3	5	3		3	5	3
P4	EvolveEASB_P4_MVOLT	1050	40	144	17,000	118	IV	3	5	3		3	5	3
P3	EvolveEASB_P3_40K	530	40	73	9,000	123	III	3	5	3		3	5	3
P3	EvolveEASB_P3_50K	530	40	73	9,000	123	III	3	5	3		3	5	3
P3	EvolveEASB_P3_MVOLT	530	40	73	9,000	123	III	3	5	3		3	5	3
P3	EvolveEASB_P3_40K	700	40	96	12,000	125	III	3	5	3		3	5	3
P3	EvolveEASB_P3_50K	700	40	96	12,000	125	III	3	5	3		3	5	3
P3	EvolveEASB_P3_MVOLT	700	40	96	12,000	125	III	3	5	3		3	5	3
P3	EvolveEASB_P3_40K	1050	40	144	17,000	118	III	3	5	3		3	5	3
P3	EvolveEASB_P3_50K	1050	40	144	17,000	118	III	3	5	3		3	5	3
P3	EvolveEASB_P3_MVOLT	1050	40	144	17,000	118	III	3	5	3		3	5	3
P2	EvolveEASB_P2_40K	530	40	73	9,000	123	II	3	5	3		3	5	3
P2	EvolveEASB_P2_50K	530	40	73	9,000	123	II	3	5	3		3	5	3
P2	EvolveEASB_P2_MVOLT	530	40	73	9,000	123	II	3	5	3		3	5	3
P2	EvolveEASB_P2_40K	700	40	96	12,000	125	II	3	5	3		3	5	3
P2	EvolveEASB_P2_50K	700	40	96	12,000	125	II	3	5	3		3	5	3
P2	EvolveEASB_P2_MVOLT	700	40	96	12,000	125	II	3	5	3		3	5	3
P2	EvolveEASB_P2_40K	1050	40	144	17,000	118	II	3	5	3		3	5	3
P2	EvolveEASB_P2_50K	1050	40	144	17,000	118	II	3	5	3		3	5	3
P2	EvolveEASB_P2_MVOLT	1050	40	144	17,000	118	II	3	5	3		3	5	3
P1	EvolveEASB_P1_40K	530	40	73	9,000	123	I	3	5	3		3	5	3
P1	EvolveEASB_P1_50K	530	40	73	9,000	123	I	3	5	3		3	5	3
P1	EvolveEASB_P1_MVOLT	530	40	73	9,000	123	I	3	5	3		3	5	3
P1	EvolveEASB_P1_40K	700	40	96	12,000	125	I	3	5	3		3	5	3
P1	EvolveEASB_P1_50K	700	40	96	12,000	125	I	3	5	3		3	5	3
P1	EvolveEASB_P1_MVOLT	700	40	96	12,000	125	I	3	5	3		3	5	3
P1	EvolveEASB_P1_40K	1050	40	144	17,000	118	I	3	5	3		3	5	3
P1	EvolveEASB_P1_50K	1050	40	144	17,000	118	I	3	5	3		3	5	3
P1	EvolveEASB_P1_MVOLT	1050	40	144	17,000	118	I	3	5	3		3	5	3

Rating values for 4 and 5 are based on rated lumens and may vary due to flux tolerances. *Contact Manufacturer for 347-480v IES file numbers.

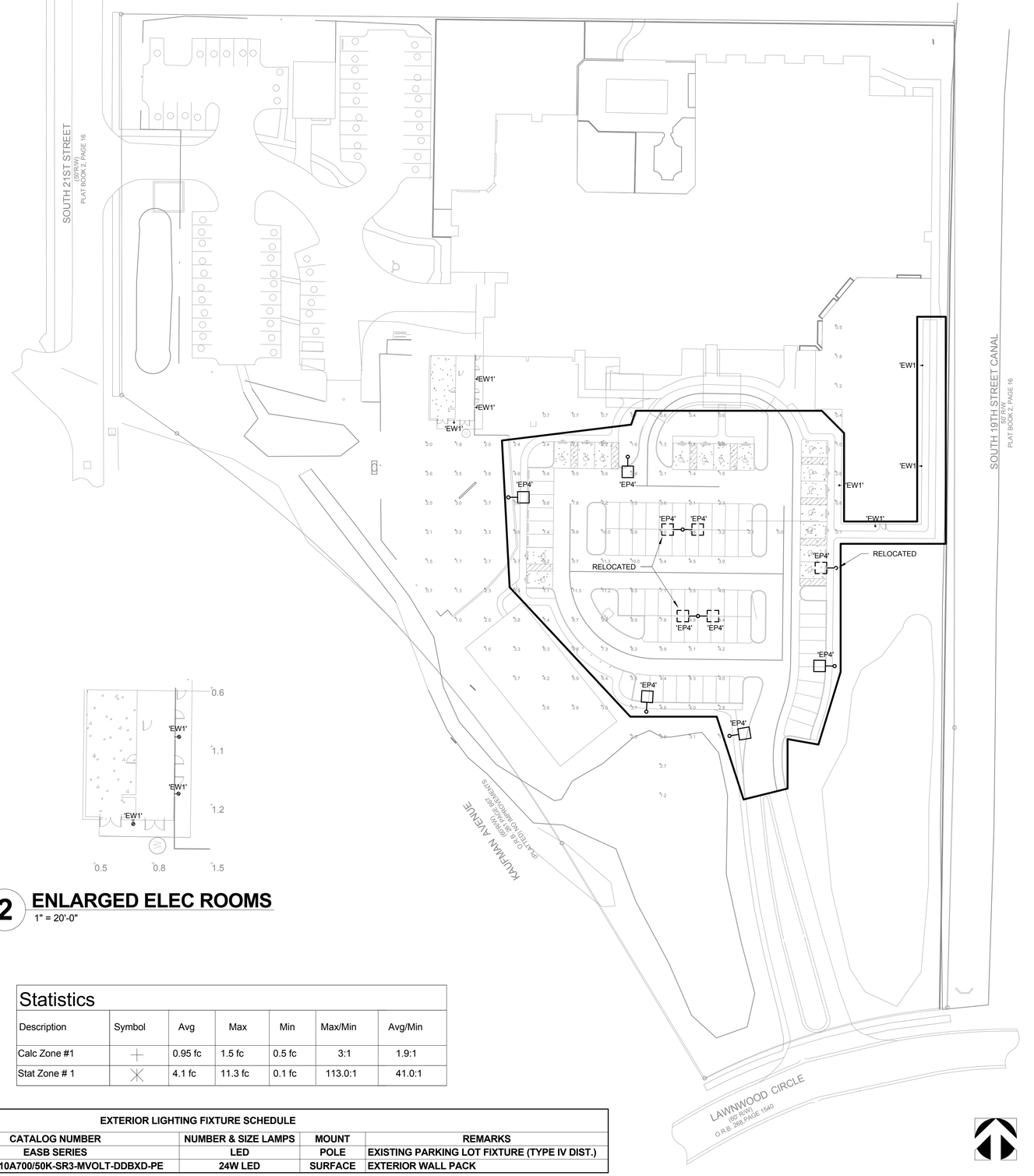
Photometrics



2 ENLARGED ELEC ROOMS
1" = 20'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.95 fc	1.5 fc	0.5 fc	3:1	1.9:1
Stat Zone # 1	X	4.1 fc	11.3 fc	0.1 fc	113.0:1	41.0:1

EXTERIOR LIGHTING FIXTURE SCHEDULE					
TYPE	MANUFACTURER	CATALOG NUMBER	NUMBER & SIZE LAMPS	MOUNT	REMARKS
EP4	GE	EASB SERIES	LED	POLE	EXISTING PARKING LOT FIXTURE (TYPE IV DIST.)
EW1	LITHONIA	WSTLED-1-10A700/50K-SR3-MVOLT-DDBXD-PE	24W LED	SURFACE	EXTERIOR WALL PACK



1 SITE PLAN
1" = 40'-0"

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ICT Project No. 150134
Firm Certificate of Authorization: CA-1276

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William T. Tinnell, P.E. #47477

Electrical Engineer Florida Registration
Joshua R. Cartwright, P.E. #71893

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ELECTRICAL - SITE PLAN — ES01

CITY SUBMISSION — 05/06/15