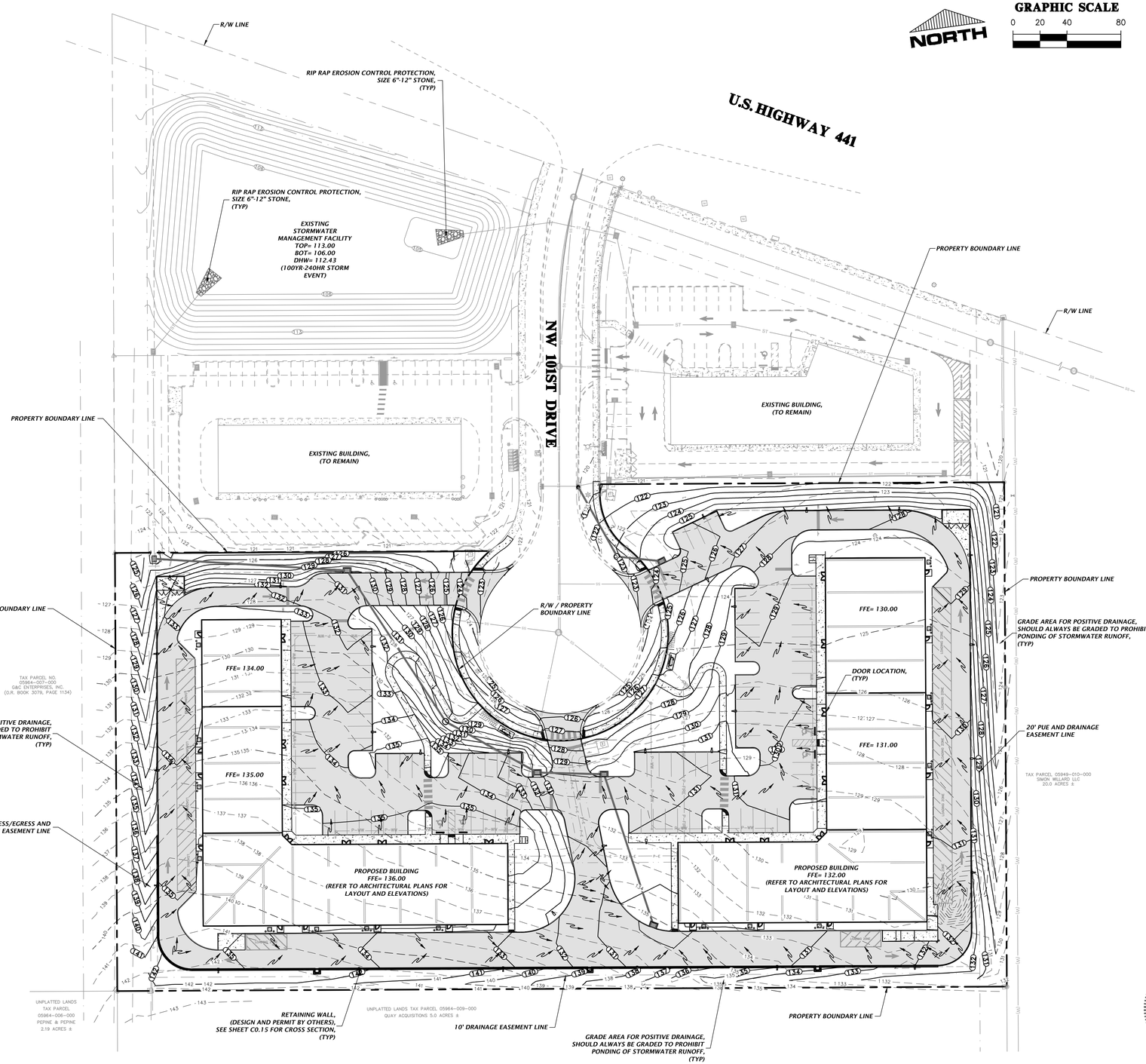
GENERAL NOTES:

1. ALL OFF-SITE IMPROVEMENTS SHALL MEET FDOT AND CITY OF ALACHUA DESIGN STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL GRADE TO PROPOSED SPOT ELEVATIONS.
3. STORMWATER RUNOFF FROM THE PROJECT SITE CONNECTS TO A EXISTING STORMWATER MANAGEMENT FACILITY, THEN DISCHARGES TO THE U.S. HIGHWAY 441 RIGHT-OF-WAY.
4. ALL DISTURBED AREAS SHALL BE SEEDED.
5. SEE GEOTECHNICAL ENGINEERNG REPORT (BY GSE ENGINEERING AND CONSULTING, INC.) FOR GENERAL REQUIREMENTS AND RECOMMENDATIONS.
6. REFER TO ARCHITECTURAL PLANS FOR EXTERNAL BUILDING CONNECTIONS.
7. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE PATTERNS.
8. ALL DISTURBED AREAS SHALL BE FINE GRADED, RESTORED, AND SEEDED/MULCHED.
9. IN NO CASE SHALL STORMWATER DRAIN TOWARD PROPOSED OR EXISTING BUILDINGS.
10. CONTRACTOR SHALL CONNECT ALL BUILDING ROOF DRAIN DOWN SPOUTS AND AIR CONDITION CONDENSATE DRAIN LINES EXTERNALLY TO PROPOSED STORMWATER DRAINAGE SYSTEM.



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SCALE: 1"=40'

VERIFY SCALE
BAR IS 1" INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON
THIS SHEET ADJUST
SCALES ACCORDINGLY.

SUBMITTALS:	CONSTRUCTION/BID REVISIONS:
12/21/17	CITY OF ALACHUA AND SRWMD
05/08/18	CITY OF ALACHUA
10/18/18	CITY OF ALACHUA
12/17/18	CITY OF ALACHUA

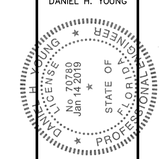
CLIENT: BNW HOLDINGS, LLC

PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5

SHEET TITLE: MASTER DRAINAGE AND GRADING PLAN

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG



FL PE No. 70780

SHEET NO: C2.00

GENERAL NOTES:

1. ALL OFF-SITE IMPROVEMENTS SHALL MEET FDOT AND CITY OF ALACHUA DESIGN STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL GRADE TO PROPOSED SPOT ELEVATIONS.
3. STORMWATER RUNOFF FROM THE PROJECT SITE CONNECTS TO A EXISTING STORMWATER MANAGEMENT FACILITY, THEN DISCHARGES TO THE U.S. HIGHWAY 441 RIGHT-OF-WAY.
4. ALL DISTURBED AREAS SHALL BE SEEDED.
5. SEE GEOTECHNICAL ENGINEERNG REPORT (BY GSE ENGINEERING AND CONSULTING, INC.) FOR GENERAL REQUIREMENTS AND RECOMMENDATIONS.
6. REFER TO ARCHITECTURAL PLANS FOR EXTERNAL BUILDING CONNECTIONS.
7. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE PATTERNS.
8. ALL DISTURBED AREAS SHALL BE FINE GRADED, RESTORED, AND SEEDED/MULCHED.
9. IN NO CASE SHALL STORMWATER DRAIN TOWARD PROPOSED OR EXISTING BUILDINGS.
10. CONTRACTOR SHALL CONNECT ALL BUILDING ROOF DRAIN DOWN SPOUTS AND AIR CONDITION CONDENSATE DRAIN LINES EXTERNALLY TO PROPOSED STORMWATER DRAINAGE SYSTEM.

NORTH

GRAPHIC SCALE
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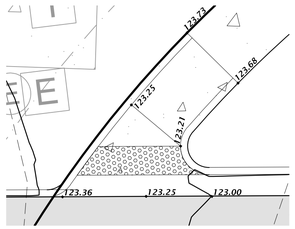
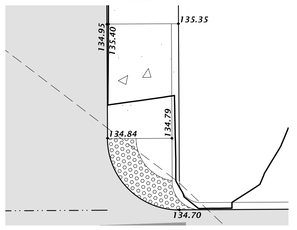


RAMP 1 DETAIL
SCALE: 1" = 5'

RAMP 2 DETAIL
SCALE: 1" = 5'

RAMP 3 DETAIL
SCALE: 1" = 5'



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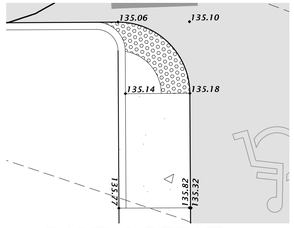

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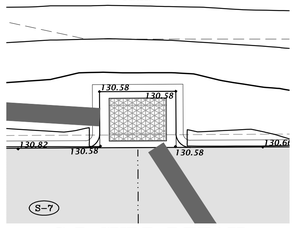
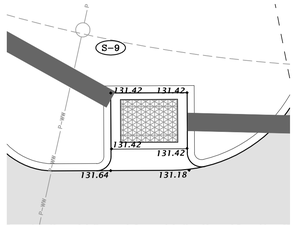


S-7 CURB DETAIL
SCALE: 1" = 5'



S-9 CURB DETAIL
SCALE: 1" = 5'

STORMWATER STRUCTURE TABLE					
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-7	TYPE F INLET PER FDOT INDEX 425-053	130.58'	124.89' W 124.89' SE	15" 15"	N: 5338.86 E: 5112.46
S-8	4' DIA. MANHOLE PER FDOT INDEX 425-001	130.05'	126.17' SE 126.17' NW	15" 15"	N: 5218.92 E: 5171.36
S-9	TYPE F INLET PER FDOT INDEX 425-053	131.42'	126.58' NW 126.58' E	15" 15"	N: 5173.10 E: 5234.21
S-10	TYPE F INLET PER FDOT INDEX 425-053	130.04'	126.78' S 126.78' W	15" 15"	N: 5165.88 E: 5283.25
S-11	TYPE F INLET PER FDOT INDEX 425-053	129.69'	127.25' N	15"	N: 5050.39 E: 5306.04
S-12	4' DIA. MANHOLE PER FDOT INDEX 425-001	122.85'	117.75' E 117.75' N	15" 15"	N: 5324.91 E: 5312.40
S-13	TYPE F INLET PER FDOT INDEX 425-053	124.19'	120.50' W	15"	N: 5317.47 E: 5344.81

EXISTING TYPE 'C' INLET, (TO REMAIN AND PROTECTED DURING CONSTRUCTION), STORMWATER SHALL BY PASS EXISTING STORM INLET

CONTRACTOR SHALL GRADE 1:3 MAXIMUM SLOPE TO EXISTING GRADE, (TYP)

CORE-DRILL MANHOLE FOR INSTALLATION OF STORM PIPE.- BRICK AND MORTAR ANNULAR SPACE AS NEEDED. INV. (15")= 121.41

TYPICAL CROSS SECTION D-D, SEE SHEET C2.33 FOR CROSS SECTION

143'-15" RCP @ 2.43%

DRAINAGE FLOW LINE, CONTRACTOR SHALL INSTALL STORMWATER DIVERSON SWALE SHALL BY PASS EXISTING STORM INLET, (TYP)

25' INGRESS/EGRESS AND DRAINAGE EASEMENT LINE

PROPERTY BOUNDARY LINE

GRADE AREA FOR POSITIVE DRAINAGE, SHOULD ALWAYS BE GRADED TO PROHIBIT PONDING OF STORMWATER RUNOFF, (TYP)

TYPICAL CROSS SECTION B-B, SEE SHEET C2.33 FOR CROSS SECTION

PROPOSED BUILDING FFE= 134.00 (REFER TO ARCHITECTURAL PLANS FOR LAYOUT AND ELEVATIONS)

PROPOSED BUILDING FFE= 135.00 (REFER TO ARCHITECTURAL PLANS FOR LAYOUT AND ELEVATIONS)

PROPOSED BUILDING FFE= 136.00 (REFER TO ARCHITECTURAL PLANS FOR LAYOUT AND ELEVATIONS)

CONTRACTOR SHALL GRADE 1:3 MAXIMUM SLOPE TO EXISTING GRADE, (TYP)

PROPERTY BOUNDARY LINE

R/W LINE

NW 101ST DRIVE

SEE SHEET C2.42 FOR CONTINUATION

SANITARY SEWER MANHOLE
N. RIM= 124.80'
N. INV.= 112.58' (8")
SE INV.= 112.62' (6"
SW INV.= 112.63' (6"
W INV.= 112.62' (6"

RUNNING SLOPE OF WALKING SURFACE SHALL NOT BE STEEPER THAN 1:20 (5%) AND CROSS SLOPE OF WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%), (TYP)

EXISTING EDGE OF PAVEMENT, (TYP)

R/W / PROPERTY BOUNDARY LINE

78'-15" RCP @ 0.53%

50'-15" RCP @ 0.40%

134'-15" RCP @ 0.96%

OUTSIDE EDGE OF PERIMETER FOOTING, (TYP)

HANDICAP PARKING SPACE, RUNNING SLOPE AND CROSS SLOPE OF PARKING AND WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%), (TYP)

GRADE AREA FOR POSITIVE DRAINAGE, SHOULD ALWAYS BE GRADED TO PROHIBIT PONDING OF STORMWATER RUNOFF, (TYP)

PROPERTY BOUNDARY LINE

RETAINING WALL, SEE SHEET C2.33 FOR CROSS SECTION, (DESIGN AND PERMIT BY OTHERS), (TYP)

10' DRAINAGE EASEMENT LINE

TYPICAL CROSS SECTION A-A, SEE SHEET C2.33 FOR CROSS SECTION

SEE SHEET C2.42 FOR CONTINUATION

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Professional Consultants

SCALE: 1" = 20'
VERIFY SCALE BAR IS ACCURATE ON THIS DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/19 – CITY OF ALACHUA AND SRWMD
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

CLIENT: BNW HOLDINGS, LLC

PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5

SHEET TITLE: DETAILED DRAINAGE AND GRADING PLAN

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
LICENSED PROFESSIONAL ENGINEER
No. 70780
Jan 14, 2019
STATE OF FLORIDA
FL PE No. 70780

SHEET NO.: C2.10

Tech: bryang Plot Date: Dec 20,2019 2:19pm Filename: L:\2017\17-0357\Engineering\DWGs\Production Files\17-0357_C2.01_GRD.dwg

GENERAL NOTES:

1. ALL OFF-SITE IMPROVEMENTS SHALL MEET FDOT AND CITY OF ALACHUA DESIGN STANDARDS AND SPECIFICATIONS.
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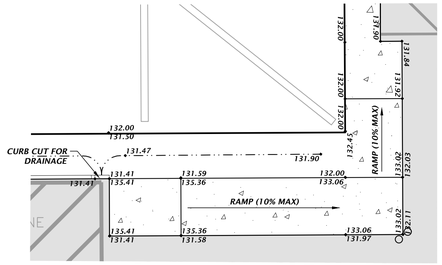
NORTH

GRAPHIC SCALE
0 10 20 40



LOADING RAMP DETAIL
SCALE: 1" = 10'

STORMWATER STRUCTURE TABLE					
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-7	TYPE F INLET PER FDOT INDEX 425-053	130.58'	124.89' W 124.89' SE	15" 15"	N: 5338.86 E: 5112.46
S-8	4' DIA. MANHOLE PER FDOT INDEX 425-001	130.05'	126.17' SE 126.17' NW	15" 15"	N: 5218.92 E: 5171.36
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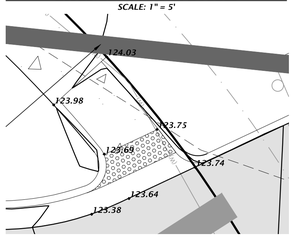
S-10	TYPE F INLET PER FDOT INDEX 425-053	130.04'	126.78' S 126.78' W	15" 15"	N: 5165.88 E: 5283.25
S-11	TYPE F INLET PER FDOT INDEX 425-053	129.69'	127.25' N	15"	N: 5050.39 E: 5306.04
S-12	4' DIA. MANHOLE PER FDOT INDEX 425-001	122.85'	117.75' E 117.75' N	15" 15"	N: 5324.91 E: 5312.40
S-13	TYPE F INLET PER FDOT INDEX 425-053	124.19'	120.50' W	15"	N: 5317.47 E: 5344.81

RAMP 4 DETAIL
SCALE: 1" = 5'



RAMP 6 DETAIL
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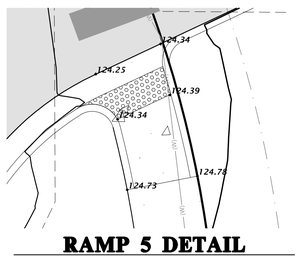

RAMP 5 DETAIL
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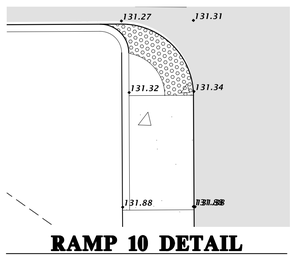

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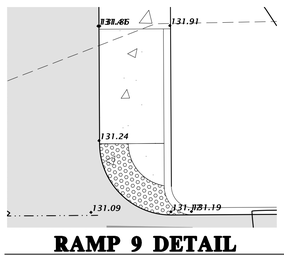
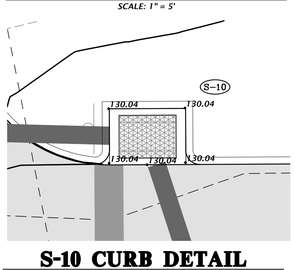
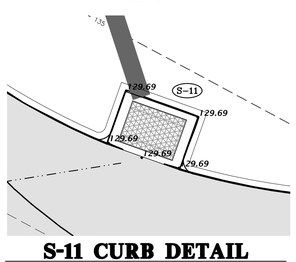


RAMP 9 DETAIL
SCALE: 1" = 5'



S-10 CURB DETAIL
SCALE: 1" = 5'



S-11 CURB DETAIL
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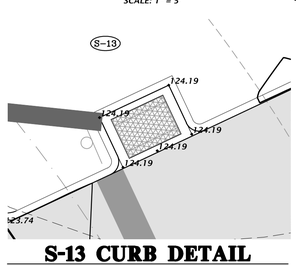
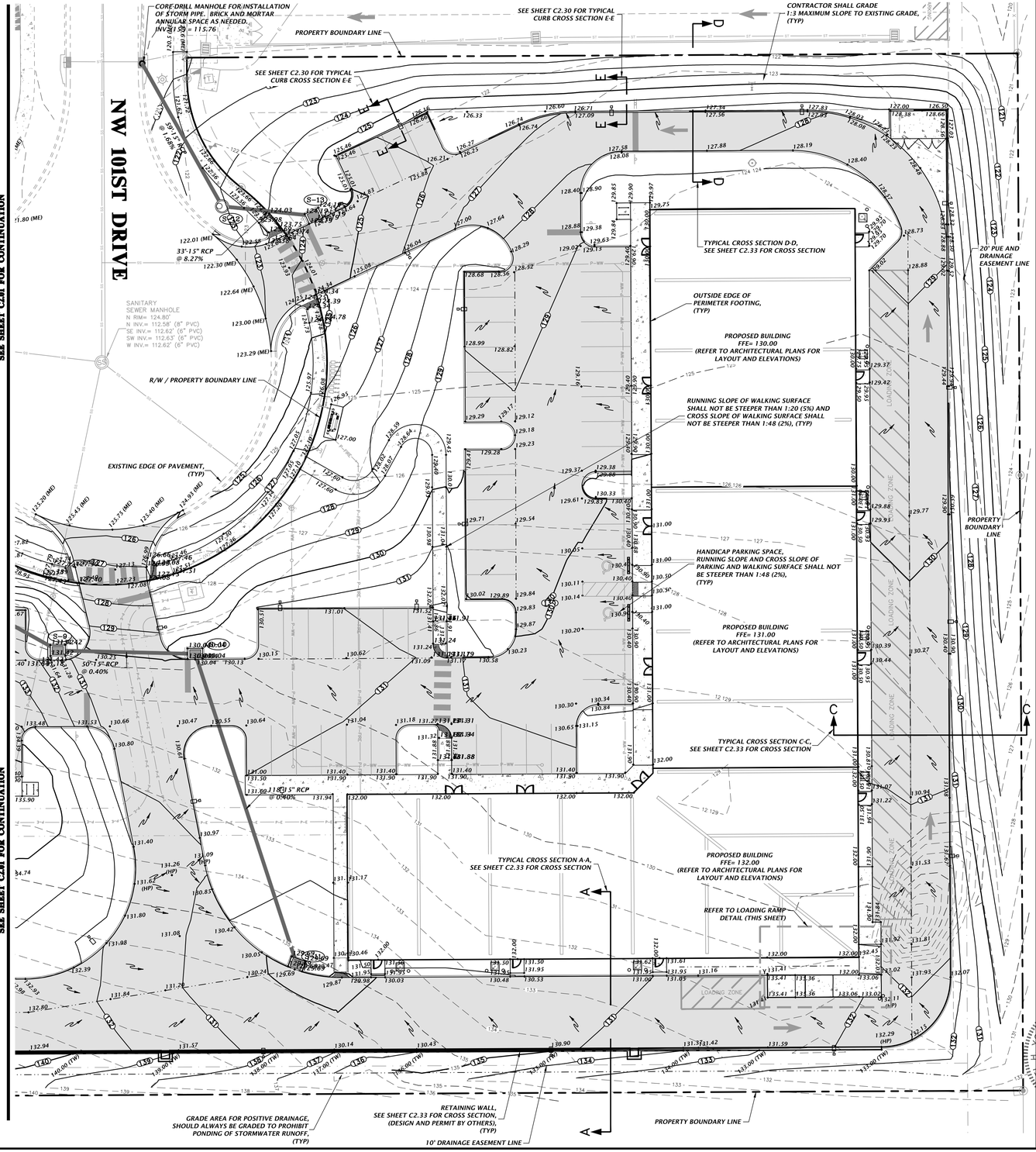


S-13 CURB DETAIL
SCALE: 1" = 5'



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352.331.2476
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est. 1988 FLORIDA CA-9075

SCALE: 1" = 20'
VERIFY SCALE BAR IS ONE INCH ON FULL SIZE DRAWINGS
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/17 – CITY OF ALACHUA AND SRWMD
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

CLIENT: BNW HOLDINGS, LLC
PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5
SHEET TITLE: DETAILED DRAINAGE AND GRADING PLAN

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
LICENSED PROFESSIONAL ENGINEER
No 70780
Jan 4, 2019
STATE OF FLORIDA
FL PE No. 70780

SHEET NO.: C2.11

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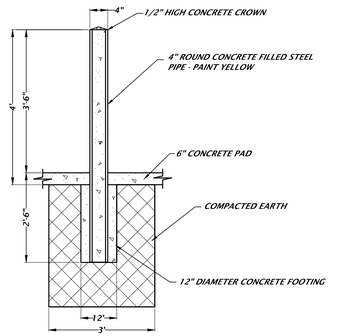
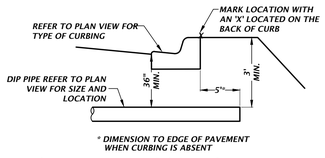


PIPE BOLLARD DETAIL
NTS



SLEEVE CROSSING DETAIL
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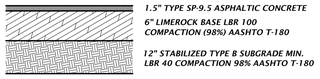
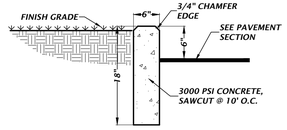
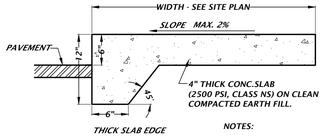


TYPICAL ASPHALT PAVEMENT DETAIL
NTS



TYPICAL 6" CURB DETAIL
NTS



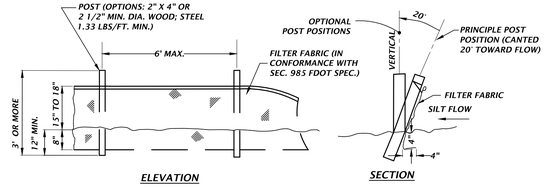
NOTES:

1. SAWCUT CONTROL JOINTS SHALL BE CONSTRUCTED 5 FEET ON CENTER
2. EXPANSION JOINTS WITH PREFORMED JOINT FILLER SHALL BE CONSTRUCTED BETWEEN ALL FIXED OBJECTS AND WALK AND AT CONSTRUCTION JOINTS.

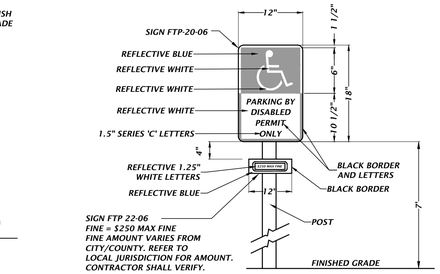
ADJACENT TO PAVEMENT
NTS

NOT ADJACENT TO PAVEMENT
NTS

CONCRETE SIDEWALK DETAILS



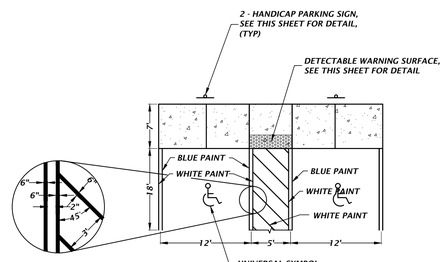
TYPE III SILT FENCE DETAIL
NTS



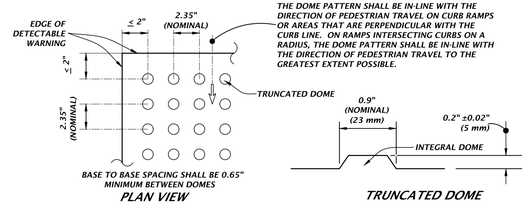
SIGN NOTES:

1. SIGN CONSTRUCTION, DESIGN AND PLACEMENT SHALL COMPLY WITH STATE AND LOCAL STATUTES.

H.C. PARKING SIGN DETAIL
NTS



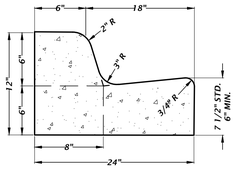
HANDICAP PARKING DETAIL
NTS



DETECTABLE WARNING DETAIL
NTS

1. PROVIDE DETECTABLE WARNINGS IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) SECTION 4.29-DETECTABLE WARNINGS ON WALKING SURFACES AND THE FLORIDA BUILDING CODE, CHAPTER 11 - FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION PART A, SECTION 11-4.29.
2. RAISED TRUNCATED DOMES SHALL HAVE A DIAMETER OF 0.9 INCH (23 mm) NOMINAL, A HEIGHT OF 0.2 INCH (5 mm) NOMINAL, AND CENTER-TO-CENTER SPACING OF 2.35 INCHES (60 mm) NOMINAL. THE TOP WIDTH OF THE DOME SHALL BE 50% MIN. TO 65% MAX. OF THE BASE DIAMETER.
3. DETECTABLE WARNING COLOR TO PROVIDE LIGHT/DARK CONTRAST BY AT LEAST 70% OF ADJACENT MATERIAL.
4. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 36 INCHES (915 mm).
5. IF MATS ARE TO BE UTILIZED:
   A - DETECTABLE WARNING SURFACE SHALL CONSIST OF 3-FT WIDE, SURFACE APPLIED, POLYURETHANE MAT WITH IN-LINE TRUNCATED DOME PATTERN.
   B - DETECTABLE WARNING SURFACE SHALL BE SECURED BY ADHESIVE AND STAINLESS STEEL ANCHORS.
   C - ACCEPTABLE PRODUCTS ARE THE SURFACE APPLIED REDIMAT MANUFACTURED BY DETECTABLE WARNING SYSTEMS, INC. OR EQUAL LISTED ON THE FDOT QUALIFIED PRODUCTS LIST IN ACCORDANCE WITH SECTION 527-2.4 OF THE FDOT STANDARD SPECIFICATIONS.
   D - PRIOR TO INSTALLING DETECTABLE WARNING MAT, SCRUB THE SURFACE WITH A WIRE BRISTLE BRUSH. THE EXISTING CONCRETE SURFACE SHALL BE CLEANED OF ANY LOOSE MATERIAL, DUST, OILS, GREASE, AND SEALERS.
   E - ALL INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH THE DETECTABLE WARNING MAT MANUFACTURER'S SPECIFICATIONS.
6. IF INTERLOCKING PAVERS ARE TO BE UTILIZED:
   A - DETECTABLE WARNING SURFACE FOR THE RAMPS SHALL CONSIST OF INTERLOCKING 4" X 8" ADA DETECTABLE WARNING SURFACE PAVERS HAVING A MINIMUM DEPTH OF 2". CONCRETE PAVERS ARE TO MEET ASTM C902 CLASS SX TYPE 1; AND BRICK PAVERS ARE TO MEET ASTM C55, GRADE N, SOLID BRICK COLOR TO MEET ADA CONTRAST REQUIREMENTS.
   B - ALL UNITS SHALL BE SOUND AND FREE OF DEFECTS THAT WOULD INTERFERE WITH THE APPEARANCE OF PROPER PLACEMENT OF THE UNIT OR IMPAIR THE STRENGTH OR LONGEVITY OF THE FINAL STRUCTURE. ANY UNITS THAT ARE STRUCTURALLY DAMAGED DURING THE WORK SHALL BE IMMEDIATELY REMOVED AND REPLACED. THE PAVERS ARE TO BE LAID IN A TWO BY TWO BASKETWEAVE PATTERN, FLUSH WITH THE FINISH GRADE OF THE RAMP SURFACE, AND HAVE GAPS BETWEEN 1/16 AND 1/8 INCH. CUT PAVERS (MASONRY SAW ONLY) SHALL BE NO SMALLER THAN ONE-THIRD OF A WHOLE PAVER.
   C - MODIFY FORMWORK OR PROVIDE FORMED GROUT INFILL BEHIND CURVED DROP CURB SECTIONS TO ENSURE STRAIGHT EDGE RESTRAINT FOR PAVERS.
   D - CONCRETE EDGE RESTRAINT FOR WARNING AREA. MAXIMUM GAP OF 1/8" BETWEEN PAVERS AND EDGE. USE ½" RADIUS ALONG CONCRETE EDGES.
   E - WHEN PAVERS ABUT EITHER EARTH/DIRT OR PAVEMENT, A SIX INCH CONCRETE BAND SHALL BE INSTALLED. BAND SHALL BE WITHIN LIMITS OF THE WIDTH OF PROPOSED CONCRETE AND NOT EXTENDED AN ADDITIONAL SIX INCHES..
7. OTHER METHODS/MATERIALS MAY BE USED FOR THE DETECTABLE WARNING STRIP, BUT THEY MUST MEET THE ABOVE CRITERIA.
8. ALL MATERIALS/METHODS TO BE UTILIZED SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO ORDERING THE MATERIALS/METHODS. FAILURE TO OBTAIN APPROVAL BEFORE ORDERING OR INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM,
9. IF FDOT CURB RAMPS ARE SPECIFIED, REFER TO THE FDOT INDEX NO. 304 FOR SPECIFICATIONS CONCERNING THE APPLICABLE DETECTABLE WARNING STRIP TO BE USED WITH FDOT SPECIFIED RAMPS.

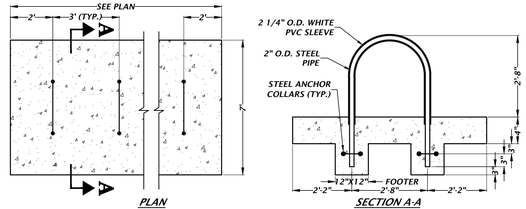
TYPICAL CURB SECTION E-E
NTS



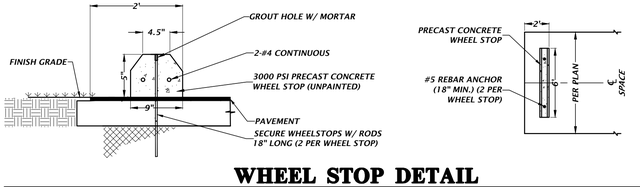
NOTE:

WHEN USED ON THE HIGH SIDE OF ROADWAY, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6".

TYPE 'F' CONCRETE CURB AND GUTTER DETAIL
NTS



U-SHAPE BIKE RACK
NTS

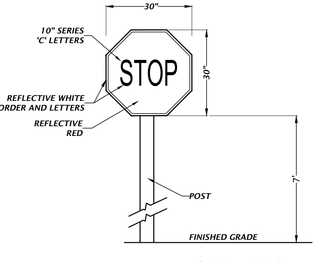


WHEEL STOP DETAIL
NTS

NOTES:

1. MOUNT SIGN 4' TO 6' HIGH ON BUILDINGS ABOVE THE FIRE DEPARTMENT CONNECTION.
2. FDC SHALL NOT BE OBSTRUCTED BY VEGETATION THAT WOULD PREVENT ACCESS DURING AN EMERGENCY.
3. SIGN DIMENSIONS SHALL COMPLY WITH LOCAL CODE REQUIREMENTS.

FIRE DEPARTMENT CONNECTION SIGN
NTS



MUTCD R1-1 (30"x30") STOP SIGN DETAIL
NTS

MUTCD TYPE D4-3 (MODIFIED)
NO ARROW, WHITE LETTERING, GREEN BACKGROUND.

BICYCLE PARKING SIGN
NTS

11801 Research Drive
Alachua, Florida 32615
(386) 418-1975
www.chw-inc.com
est. 1988 FLORIDA CA-9075
CHW Professional Consultants

SCALE: N/A
VERIFY SCALE BAR IS CORRECT FOR THESE PLANS
0 1" IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/17 – CITY OF ALACHUA AND SRWMD
01/08/18 – CITY OF ALACHUA
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

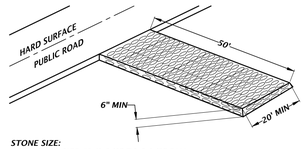
CLIENT: BNW HOLDINGS, LLC
PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5
SHEET TITLE: CONSTRUCTION DETAILS

TECHNICIAN: J. THOMAS
DESIGNED: J. THOMAS
DRAWN BY: J. THOMAS
CHECKED: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
LICENSE NO. 70780
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FL PE No. 70780

SHEET NO.: C2.30

Tech: bryang Plot Date: Dec 19,2018 8:20am Filename: L:\2017\17-0357\Engineering\DWGs\Production Files\17-0357_C2.30_DT.dwg



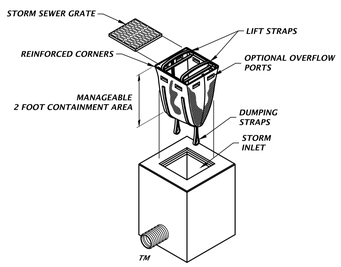
STONE SIZE:
ASTM D448 SIZE #1 (1-1/2" TO 3-1/2" DIA)

STANDARD CONSTRUCTION EXIT

TEMPORARY CONSTRUCTION EXIT DETAIL

NTS

NOTE:
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.



DANDY SACK DETAIL

NTS

INSTALLATION:

REMOVE THE GRATE FROM INLET. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK™ SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE:

REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY SACK.™ IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

BASIN OPERATION AND MAINTENANCE REQUIREMENTS

STORMWATER MANAGEMENT FACILITIES (SMF)

ALL SMF'S PERMITTED BY THE DISTRICT SHALL BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE DESIGNS, PLANS CALCULATIONS, AND OTHER SPECIFICATIONS THAT ARE SUBMITTED WITH AN APPLICATION, APPROVED BY THE DISTRICT, AND INCORPORATED BY REFERENCE INTO ANY PERMIT ISSUED. SMF'S SHALL BE KEPT FREE OF DEBRIS, TRASH, GARBAGE, OILS AND GREASES, AND OTHER REFUSE THROUGH REGULAR INSPECTION AND MAINTENANCE BY THE PERMITTEE.

EROSION CONTROL

THE SYSTEM SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE PERMITTEE TO INSURE THAT ALL EROSION IS CONTROLLED AND SOIL IS STABILIZED TO PREVENT SEDIMENT DISCHARGE TO WATERS IN THE STATE. ANY VEGETATION ESTABLISHED FOR EROSION CONTROL SHALL BE PROPERLY MAINTAINED FOR FUNCTION. ALL EROSION DAMAGE AT SPILLWAYS, OUTFALL STRUCTURES, AND ALONG BASIN SIDE SLOPES SHALL BE REPAIRED (GRADING AND GRASSING) AS CONDITIONS OCCUR. ALL SIDE SLOPES AND OTHER AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED BY SODDING, HYDRO-MULCHING OR OTHER APPROPRIATE VEGETATIVE OR NON-VEGETATIVE EROSION CONTROL MEASURES.

PIPES AND STRUCTURES

ALL STRUCTURES WITHIN THE SYSTEM SHALL BE REGULARLY INSPECTED AND MAINTAINED ON A REGULAR BASIS BY THE PERMITTEE TO INSURE THAT THEY DO NOT BECOME CLOGGED OR CHOKED WITH VEGETATIVE OR AQUATIC GROWTH TO SUCH AN EXTENT AS TO RENDER THEM INOPERABLE.

FUNCTION

BASINS THAT DO NOT DRAWDOWN PROPERLY AND MAINTAIN STANDING WATER FOR AN EXTENDED PERIOD OF TIME MAY REQUIRE REMEDIAL ACTION. THE ENGINEER SHALL BE NOTIFIED TO HELP COORDINATE REMEDIAL ACTION IN THE EVENT IMPROPER RECOVERY IS NOTED.

SINKHOLE

IF A SINKHOLE FORMS IN THE AREA OF A DRAINAGE SWALE/BASIN THE ENGINEER OF RECORD SHALL BE NOTIFIED BY EITHER THE CONTRACTOR OR THE ESTABLISHED OPERATION AND MAINTENANCE ENTITY. THE ENGINEER OF RECORD SHALL INSPECT THE REPAIRED AREA UPON COMPLETION OF THE REPAIR. ALL SWALES/BASINS SHALL BE INSPECTED MONTHLY FOR SINKHOLE OCCURRENCE. SHOULD A SINKHOLE OCCUR, THE AREA SHALL BE REPAIRED AS SOON AS POSSIBLE. REPAIR SHALL INCLUDE FILLING (LIMEROCK SUCH AS ROAD BASE MATERIAL, CLAY/SAND MIXTURE, OR CONCRETE IF NECESSARY). A 3-FOOT DEEP CAP THAT EXTENDS 3 FEET BEYOND THE PERIMETER OF THE SINKHOLE SHALL BE CONSTRUCTED WITH CLAYEY SOILS. THE CLAYEY SOIL SHALL HAVE AT LEAST 20% PASSING THE NO. 200 SIEVE, COMPACTED TO 95% OF STANDARD PROCTOR, AND COMPACTED IN A WET CONDITION WITH MOISTURE 2% - 4% ABOVE OPTIMUM. THE CLAY SOIL CAP SHALL BE RE-GRADED TO PREVENT CONCENTRATION OF WATERS (PONDING) AND RE-VEGETATED.

BASIN LIMEROCK OUTCROP CONSTRUCTION NOTES

1. IN THE EVENT THAT A CONTINUOUS LIMEROCK FORMATION IS ENCOUNTERED DURING CONSTRUCTION OF THE RETENTION BASINS, THE FOLLOWING TREATMENT SHALL BE PERFORMED. THE LIMEROCK OUTCROP SHALL BE EXCAVATED TO AN ELEVATION OF THREE (3) FEET BELOW THE DESIGN BASIN BOTTOM. THE EXCAVATED AREA SHALL BE BACKFILLED TO THE DESIGN BASIN BOTTOM ELEVATION WITH SANDY SOILS.
2. IN THE EVENT THAT ANY KARST FEATURES, SUCH AS SOLUTION CAVITIES, CHIMNEYS, OR SINKHOLES APPEAR IN THE RETENTION BASIN, THE FOLLOWING ACTIONS SHALL BE REQUIRED.

A. ONCE THE FEATURE IS IDENTIFIED, IT SHALL BE ISOLATED BY CREATING A BERM AROUND THE FEATURE A MINIMUM OF 2 FEET HIGH TO PREVENT DIRECT DISCHARGE INTO THE KARST FEATURE.

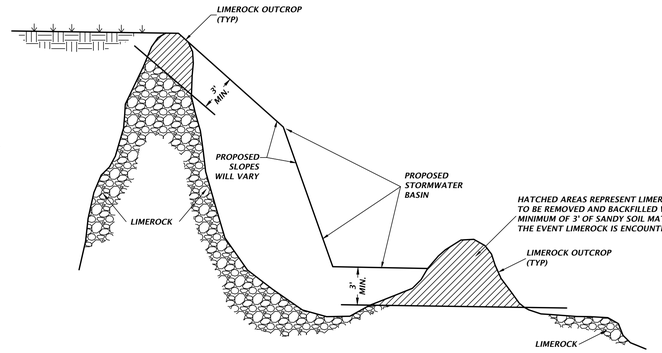
B. THE CIVIL ENGINEER, THE SRWMD, AND THE CITY OF ALACHUA PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED WHEN THE FEATURE IS ENCOUNTERED PRIOR TO REMEDIAL ACTION.

C. A LICENSED GEOTECHNICAL ENGINEERING FIRM SHALL BE RETAINED TO EVALUATE THE SIGNIFICANCE OF THE FEATURE AND TO DETERMINE THE REMEDIAL ACTION NECESSARY. SEE SHALLOW AND DEEP SINKHOLE/CAVITY MAINTENANCE REPAIR DETAIL.

D. THE GEOTECHNICAL ENGINEERING FIRM SHALL BE REQUIRED TO MONITOR THE REMEDIAL WORK AND SEND A SUMMARY REPORT UPON REPAIR COMPLETION TO THE CIVIL ENGINEER, THE SRWMD, AND THE CITY OF ALACHUA PUBLIC WORKS DEPARTMENT.

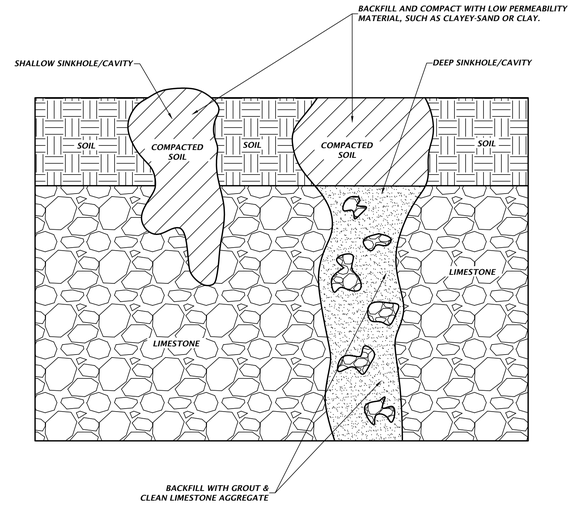
BASIN EROSION & SEDIMENTATION CONTROL

1. SILT FENCING AND/OR STAKED HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION.
2. ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH F.D.O.T. FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.
3. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
4. ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY STABILIZED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER FDOT INDEX NO. 104. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.
5. REFER TO THE SWPPP PLAN FOR COMPLETE EROSION CONTROL MEASURES.



LIMEROCK OUTCROP REMOVAL DETAIL

NTS



SHALLOW AND DEEP SINKHOLE/CAVITY MAINTENANCE REPAIR DETAIL

NTS

11801 Research Drive
Alachua, Florida 32615
352.331.1976
www.chw-inc.com
est. 1988 FLORIDA CA-9075
CHW Professional Consultants

SCALE: N/A
VERIFY SCALE BAR IS CORRECT ON PLOTTED PLANS
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/17 – CITY OF ALACHUA AND SRWMD
10/04/18 – CITY OF ALACHUA
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

CLIENT: BNW HOLDINGS, LLC
PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5
SHEET TITLE: CONSTRUCTION DETAILS

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
DANIEL H. YOUNG LICENSED PROFESSIONAL ENGINEER No 70780 STATE OF FLORIDA
FL PE No. 70780

SHEET NO.: C2.31

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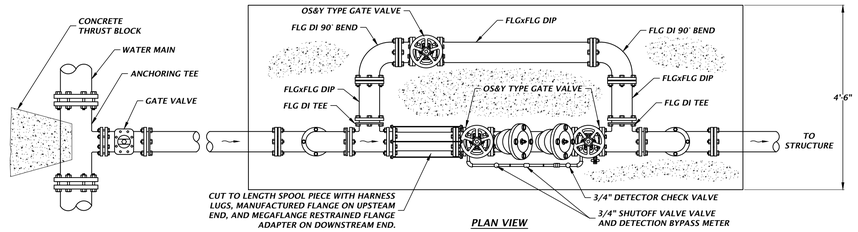
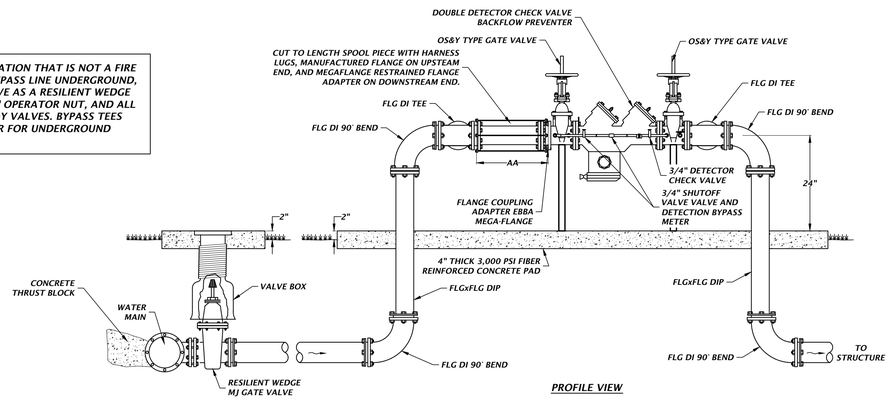


PLAN VIEW

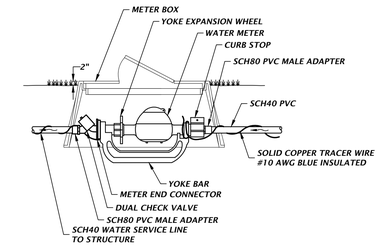
NOTE: EVERY INSTALLATION THAT IS NOT A FIRE LINE CAN HAVE THE BYPASS LINE UNDERGROUND, WITH THE BYPASS VALVE AS A RESILIENT WEDGE GATE VALVE WITH A 2" OPERATOR NUT, AND ALL OTHER VALVES AS OS&Y VALVES. BYPASS TEES SHALL BE ON THE RISER FOR UNDERGROUND INSTALLATIONS.



PROFILE VIEW

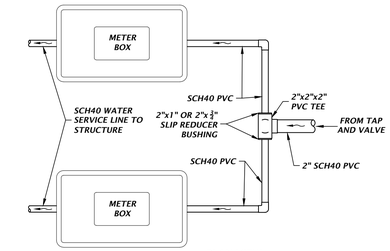
DETAIL No. 265 - FIRE DOUBLE DETECTOR CHECK VALVE BACKFLOW PREVENTER (NO DOWNSTREAM DIESEL FIRE PUMP)

NTS

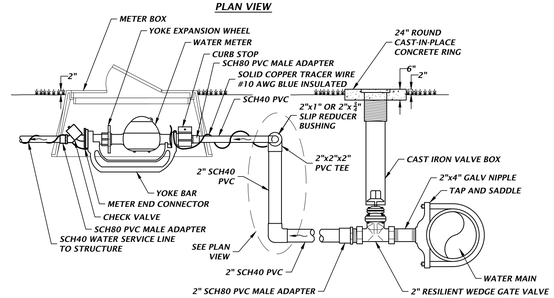


DETAIL No. 230 - 3/4" AND 1" WATER METER ASSEMBLY

NTS

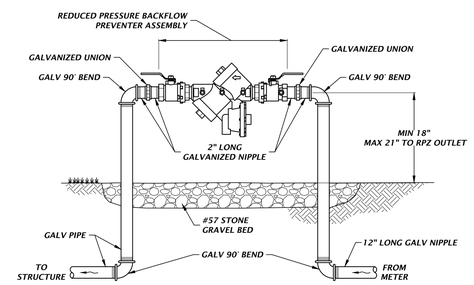


PLAN VIEW



DETAIL No. 255 - DUAL WATER SERVICE CONNECTION

NTS

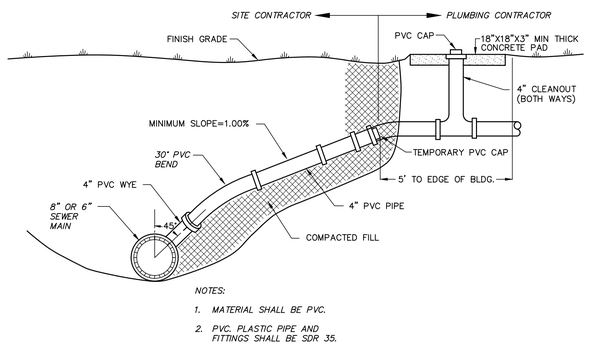


NOTE:

BACKFLOW PREVENTER ASSEMBLY MUST HAVE FREEZE PROTECTION.

DETAIL No. 240 - 3/4" TO 2" BACKFLOW PREVENTER

NTS

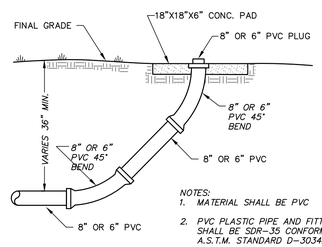


NOTES:

1. MATERIAL SHALL BE PVC.
2. PVC PLASTIC PIPE AND FITTINGS SHALL BE SDR 35.

SINGLE SEWER SERVICE LATERAL

NTS

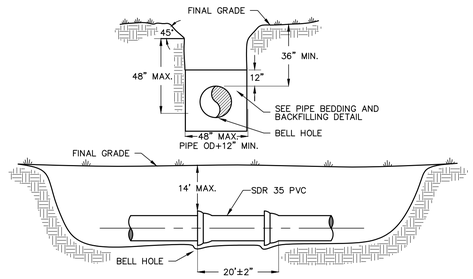


NOTES:

1. MATERIAL SHALL BE PVC
2. PVC PLASTIC PIPE AND FITTINGS SHALL BE SDR-35 CONFORMING TO A.S.T.M. STANDARD D-3034.

SEWER MAIN CLEAN-OUT DETAIL

NTS



SANITARY SEWER, INSTALLATION

NTS

11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-9075
CHW Professional Consultants

SCALE: N/A

VERIFY SCALE BAR IS CORRECT FOR PLOTTED SIZE
0 1" 2"
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/17 – CITY OF ALACHUA AND SRWMD
06/06/18 – CITY OF ALACHUA
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

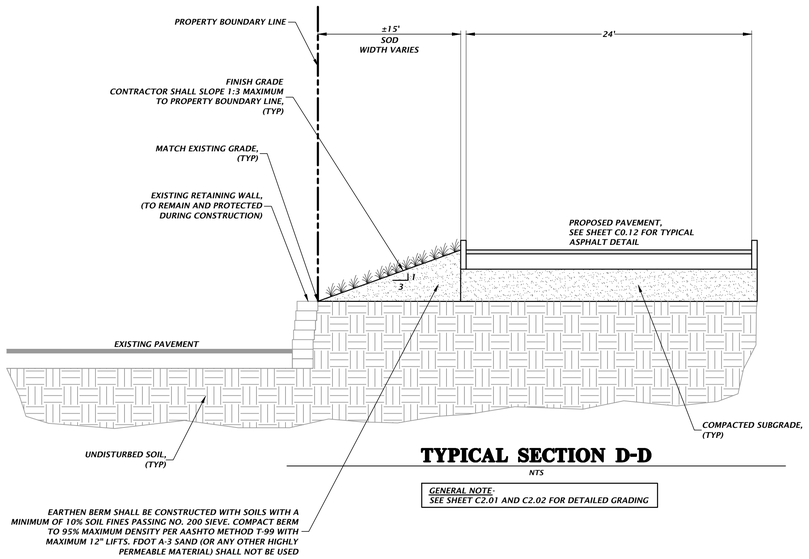
CLIENT: BNW HOLDINGS, LLC
PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5
SHEET TITLE: CONSTRUCTION DETAILS

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QA / QC CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
No. 70780
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FL PE No. 70780

SHEET NO.: C2.32

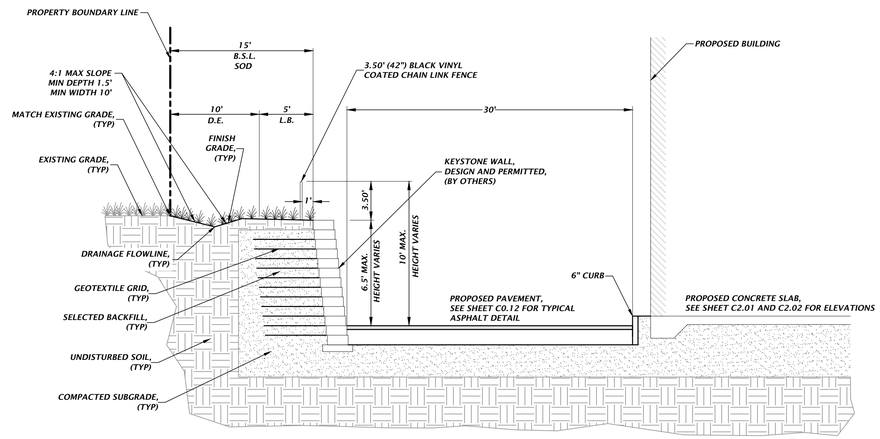
Tech: brysng Plot Date: Dec 19,2018 8:51am Filename: L:\2017\17-0357\Engineering\DWGs\Production Files\17-0357_C2.32_DT.dwg



TYPICAL SECTION D-D

NTS

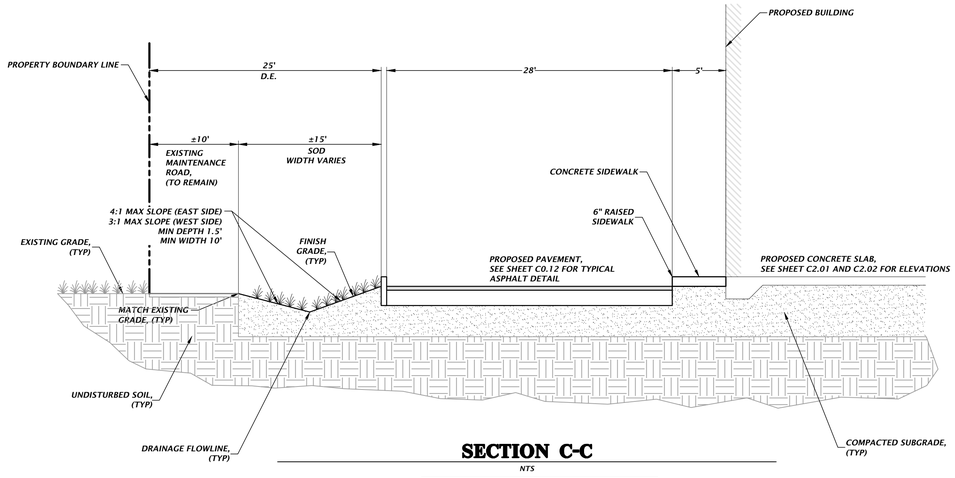
GENERAL NOTE:
SEE SHEET C2.01 AND C2.02 FOR DETAILED GRADING



TYPICAL RETAINING WALL SECTION A-A

NTS

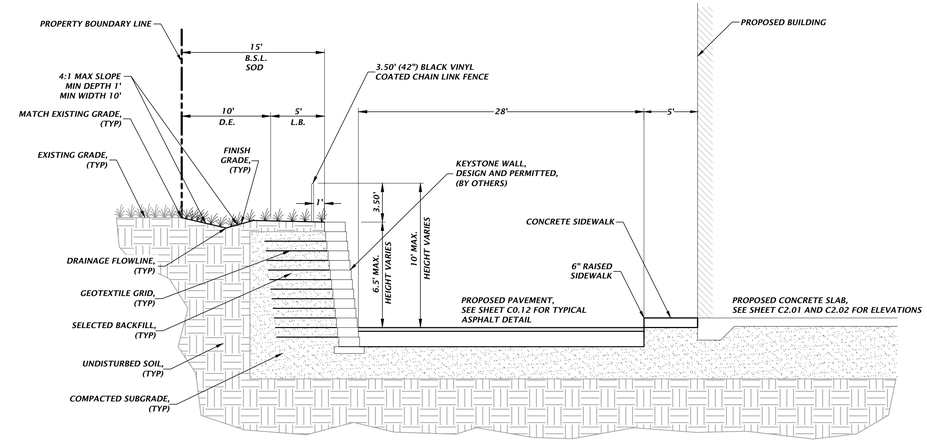
GENERAL NOTE:
SEE SHEET C2.01 AND C2.02 FOR DETAILED GRADING



SECTION C-C

NTS

GENERAL NOTE:
SEE SHEET C2.01 AND C2.02 FOR DETAILED GRADING



TYPICAL RETAINING WALL SECTION B-B

NTS

GENERAL NOTE:
SEE SHEET C2.01 AND C2.02 FOR DETAILED GRADING

11801 Research Drive
Alachua, Florida 32615
(386) 418-1978
www.chw-inc.com
est. 1988 FLORIDA CA-9075
CHW Professional Consultants

SCALE: N/A

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY
0 1"

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/18 – CITY OF ALACHUA AND SRWMD
1ST RESUBMITTAL
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

CLIENT: BNW HOLDINGS, LLC

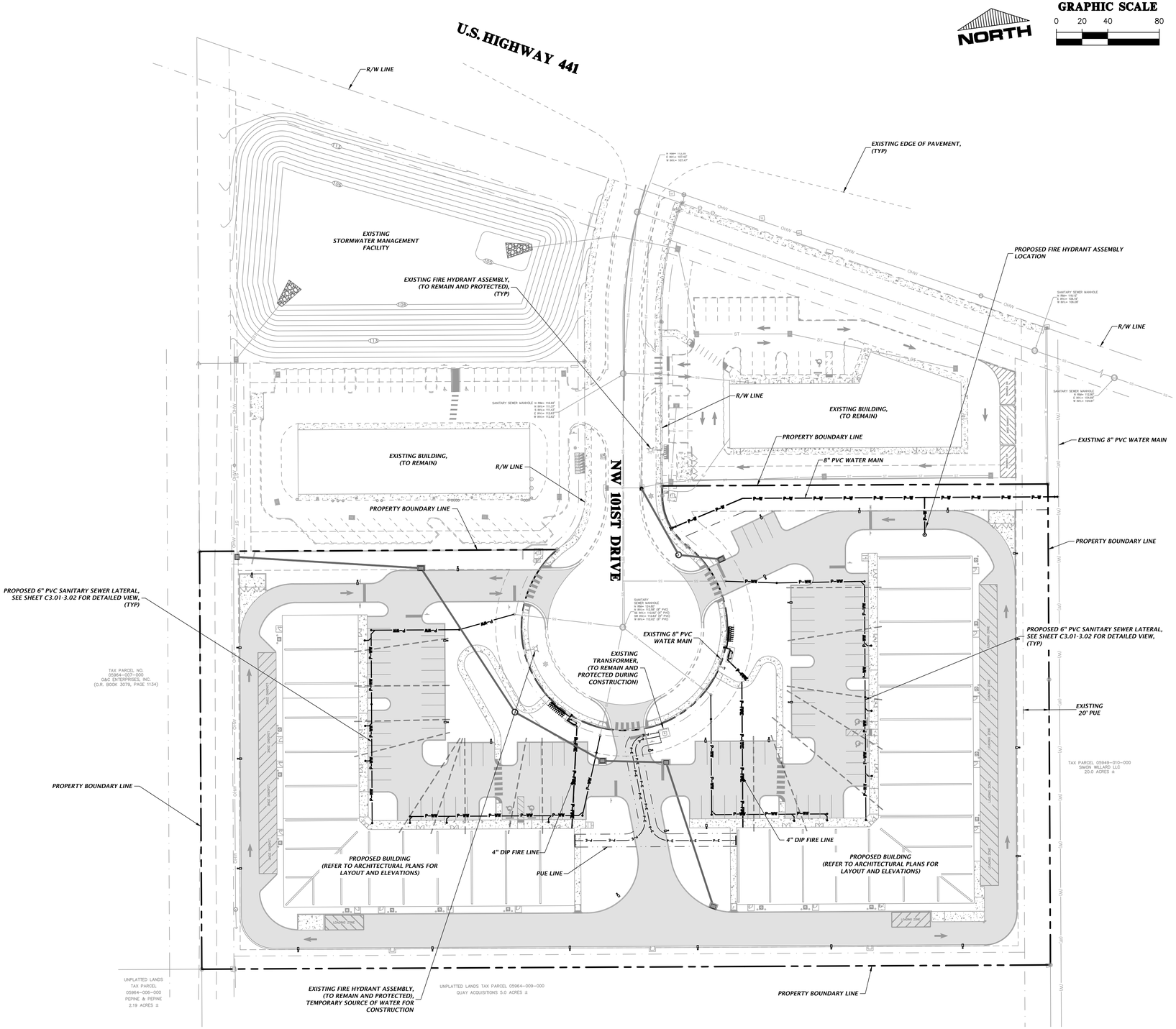
PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5

SHEET TITLE: TYPICAL CROSS SECTIONS

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
LICENSED PROFESSIONAL ENGINEER
No 70780
Jan 14 2019
STATE OF FLORIDA
FL PE No. 70780

SHEET NO.: C2.33



11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-29075
CHW Professional Consultants

SCALE: 1" = 40'

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/17 – CITY OF ALACHUA AND SRWMD
06/06/18 – CITY OF ALACHUA
10/8/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

CLIENT: BNW HOLDINGS, LLC

PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5

SHEET TITLE: MASTER UTILITY PLAN

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
STATE OF FLORIDA * PROFESSIONAL ENGINEER * No 70780 Jan 7, 2019
FL PE No. 70780

SHEET NO.: C3.00

Tech: tryang Plot Date: Dec 20,2018 2:22pm Filename: L:\2017\17-0357\Engineering\Civil\Production Files\17-0357_C3.00_MUP.dwg

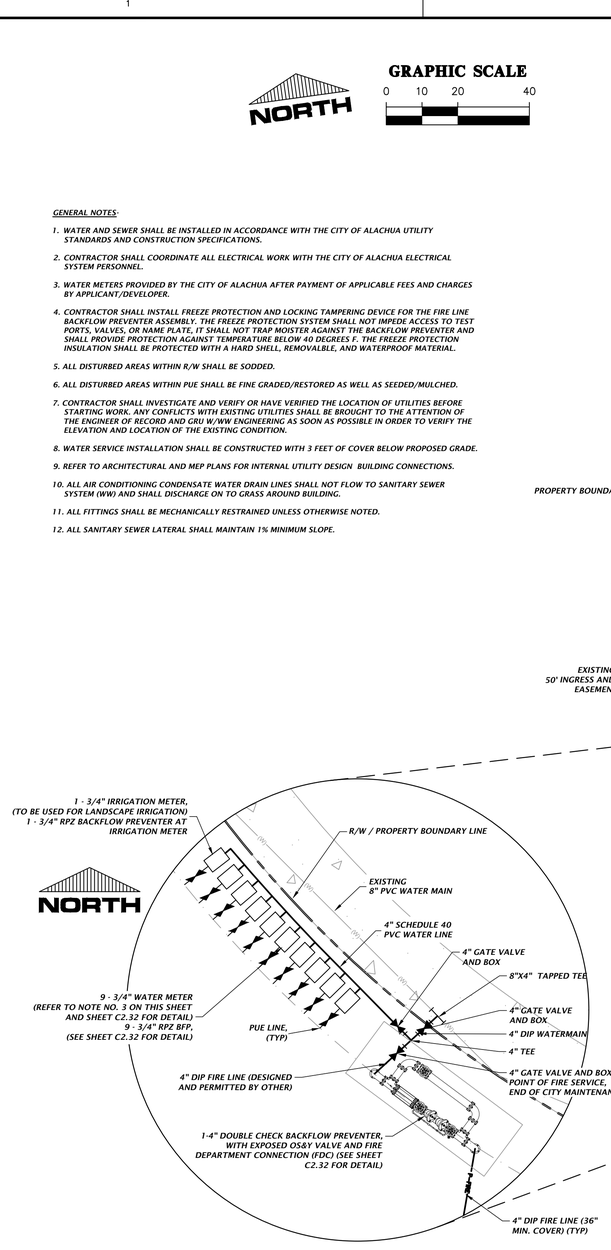
NORTH

GRAPHIC SCALE

0 10 20 40

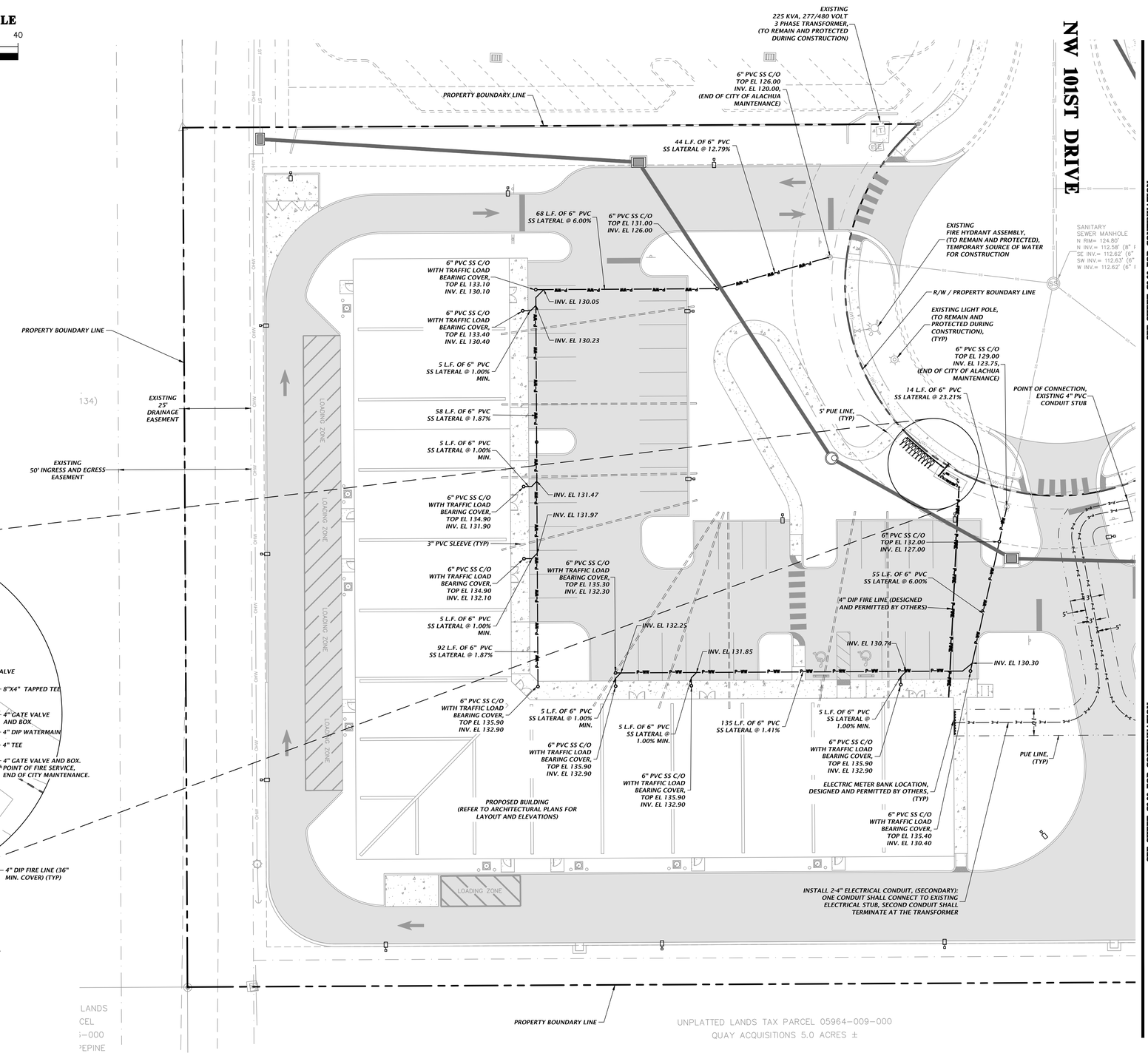
GENERAL NOTES:

1. WATER AND SEWER SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF ALACHUA UTILITY STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH THE CITY OF ALACHUA ELECTRICAL SYSTEM PERSONNEL.
3. WATER METERS PROVIDED BY THE CITY OF ALACHUA AFTER PAYMENT OF APPLICABLE FEES AND CHARGES BY APPLICANT/DEVELOPER.
4. CONTRACTOR SHALL INSTALL FREEZE PROTECTION AND LOCKING TAMPERING DEVICE FOR THE FIRE LINE BACKFLOW PREVENTER ASSEMBLY. THE FREEZE PROTECTION SYSTEM SHALL NOT IMPEDE ACCESS TO TEST PORTS, VALVES, OR NAME PLATE, IT SHALL NOT TRAP MOISTER AGAINST THE BACKFLOW PREVENTER AND SHALL PROVIDE PROTECTION AGAINST TEMPERATURE BELOW 40 DEGREES F. THE FREEZE PROTECTION INSULATION SHALL BE PROTECTED WITH A HARD SHELL, REMOVALBLE, AND WATERPROOF MATERIAL.
5. ALL DISTURBED AREAS WITHIN R/W SHALL BE SODDED.
6. ALL DISTURBED AREAS WITHIN PUE SHALL BE FINE GRADED/RESTORED AS WELL AS SEEDED/MULCHED.
7. CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF UTILITIES BEFORE STARTING WORK. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AND GRU W/WW ENGINEERING AS SOON AS POSSIBLE IN ORDER TO VERIFY THE ELEVATION AND LOCATION OF THE EXISTING CONDITION.
8. WATER SERVICE INSTALLATION SHALL BE CONSTRUCTED WITH 3 FEET OF COVER BELOW PROPOSED GRADE.
9. REFER TO ARCHITECTURAL AND MEP PLANS FOR INTERNAL UTILITY DESIGN BUILDING CONNECTIONS.
10. ALL AIR CONDITIONING CONDENSATE WATER DRAIN LINES SHALL NOT FLOW TO SANITARY SEWER SYSTEM (WW) AND SHALL DISCHARGE ON TO GRASS AROUND BUILDING.
11. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED UNLESS OTHERWISE NOTED.
12. ALL SANITARY SEWER LATERAL SHALL MAINTAIN 1% MINIMUM SLOPE.



POTABLE WATER CONNECTION AND WATER METER DETAIL NO. 1

SCALE: 1"=5'



SEE SHEET C3.02 FOR CONTINUATION

11801 Research Drive
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CHW Professional Consultants

SCALE: 1" = 20'
VERIFY SCALE BAR IS CORRECT FOR PLOTTED DRAWING SIZE
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CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/18 – CITY OF ALACHUA AND SRWMD
01/08/18 – CITY OF ALACHUA
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

CLIENT: BNW HOLDINGS, LLC

PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5

SHEET TITLE: DETAILED UTILITY PLAN

TECHNICIAN: J. THOMAS
DESIGNED: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
No. 70780
Jan 4, 2019
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FL PE No. 70780

SHEET NO.: C3.10

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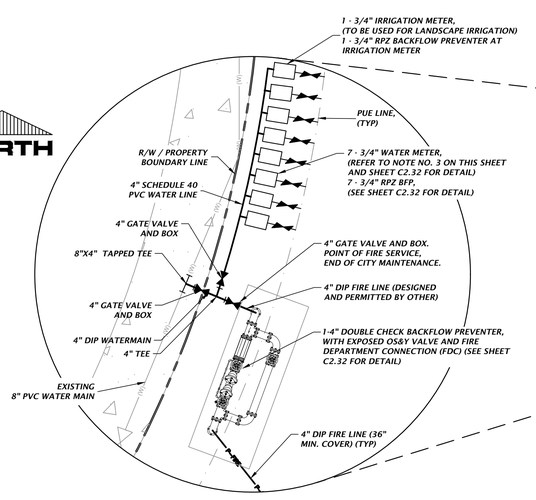

POTABLE WATER CONNECTION AND WATER METER DETAIL NO. 2

SCALE: 1"=5'

GENERAL NOTES:

1. WATER AND SEWER SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF ALACHUA UTILITY STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH THE CITY OF ALACHUA ELECTRICAL SYSTEM PERSONNEL.
3. WATER METERS PROVIDED BY THE CITY OF ALACHUA AFTER PAYMENT OF APPLICABLE FEES AND CHARGES BY APPLICANT/DEVELOPER.
4. CONTRACTOR SHALL INSTALL FREEZE PROTECTION AND LOCKING TAMPERING DEVICE FOR THE FIRE LINE BACKFLOW PREVENTER ASSEMBLY. THE FREEZE PROTECTION SYSTEM SHALL NOT IMPEDE ACCESS TO TEST PORTS, VALVES, OR NAME PLATE, IT SHALL NOT TRAP MOISTER AGAINST THE BACKFLOW PREVENTER AND SHALL PROVIDE PROTECTION AGAINST TEMPERATURE BELOW 40 DEGREES F. THE FREEZE PROTECTION INSULATION SHALL BE PROTECTED WITH A HARD SHELL, REMOVALBLE, AND WATERPROOF MATERIAL.
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6. ALL DISTURBED AREAS WITHIN PUE SHALL BE FINE GRADED/RESTORED AS WELL AS SEEDED/MULCHED.
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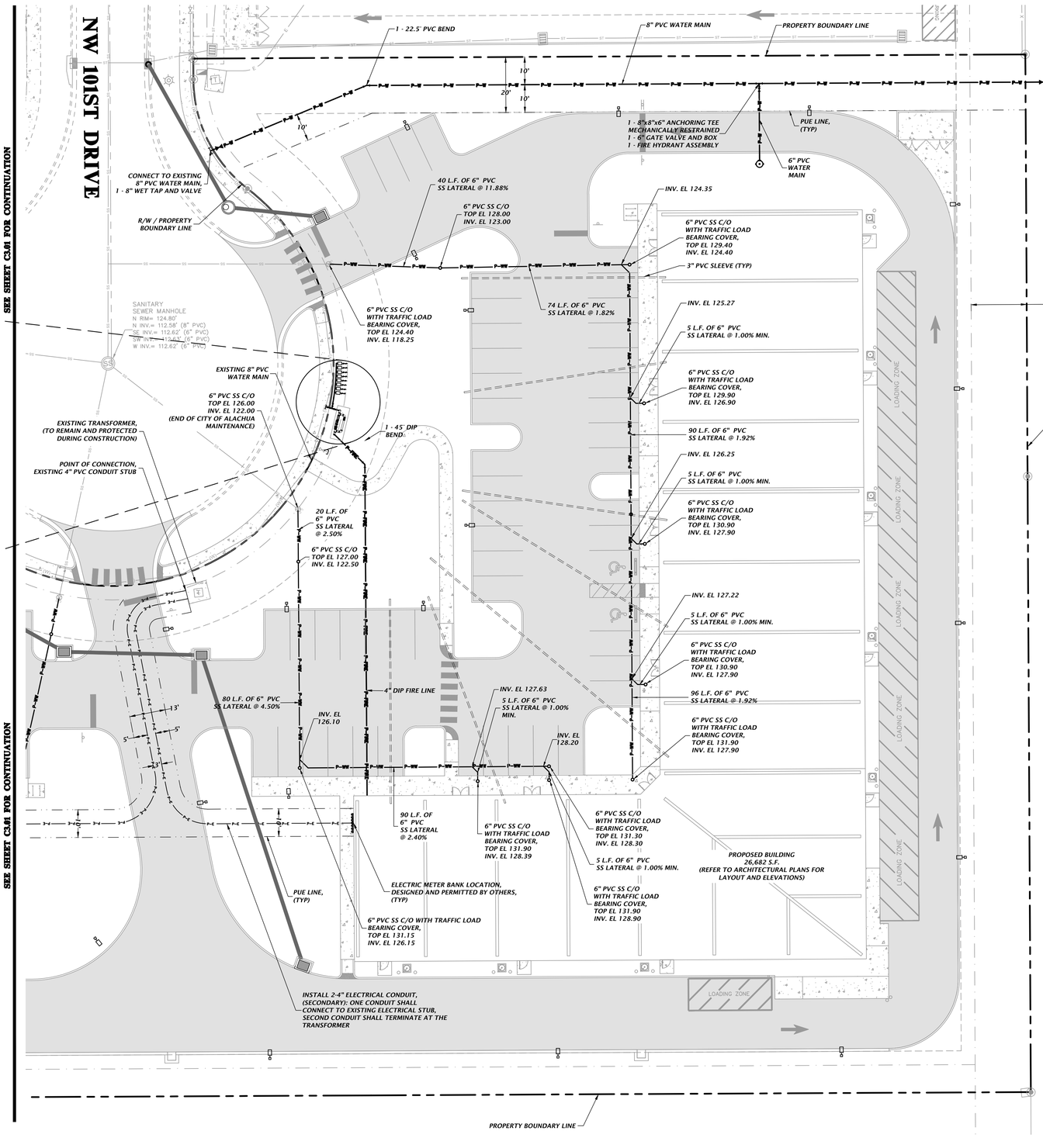
8. WATER SERVICE INSTALLATION SHALL BE CONSTRUCTED WITH 3 FEET OF COVER BELOW PROPOSED GRADE.
9. REFER TO ARCHITECTURAL AND MEP PLANS FOR INTERNAL UTILITY DESIGN BUILDING CONNECTIONS.
10. ALL AIR CONDITIONING CONDENSATE WATER DRAIN LINES SHALL NOT FLOW TO SANITARY SEWER SYSTEM (WW) AND SHALL DISCHARGE ON TO GRASS AROUND BUILDING.
11. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED UNLESS OTHERWISE NOTED.
12. ALL SANITARY SEWER LATERAL SHALL MAINTAIN 1% MINIMUM SLOPE.



GRAPHIC SCALE
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NORTH

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Alachua, Florida 32615
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(352) 331-2476
www.chw-inc.com
est. 1988 FLORIDA CA-9075

SCALE: 1" = 20'
VERIFY SCALE BAR IS CORRECT ON PLOTTED DRAWING
0 20 40
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/18 – CITY OF ALACHUA AND SRWMD
RAI #01/08/19 – CITY OF ALACHUA
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

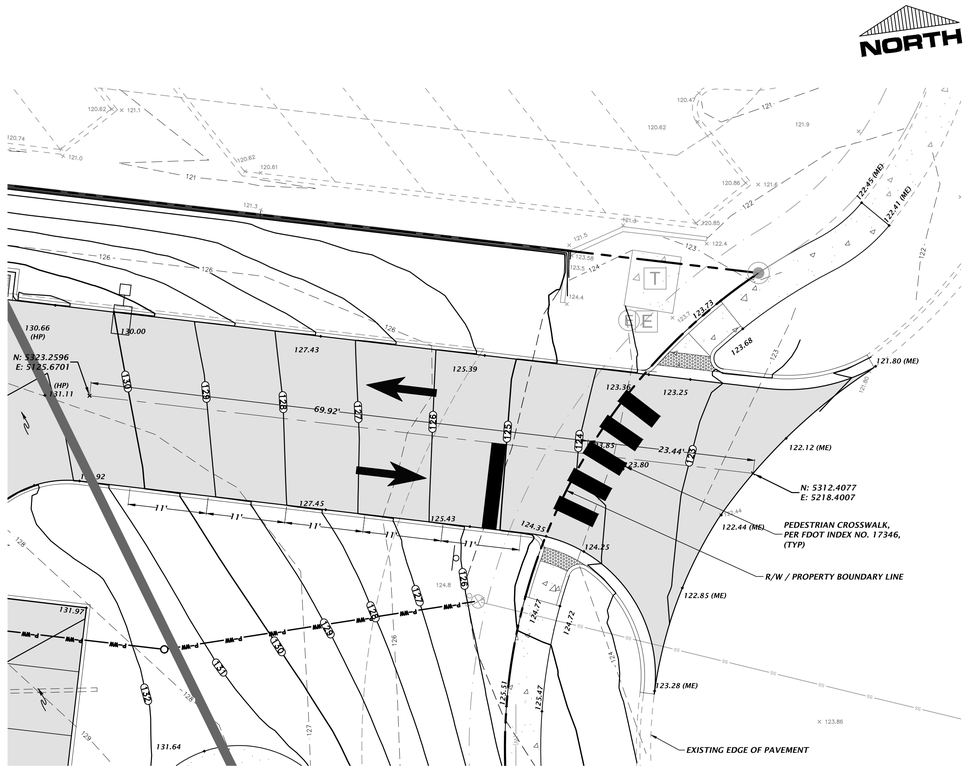
CLIENT: BNW HOLDINGS, LLC
PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5
SHEET TITLE: DETAILED UTILITY PLAN

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
LICENSED PROFESSIONAL ENGINEER
No. 70780
STATE OF FLORIDA
FL PE No. 70780

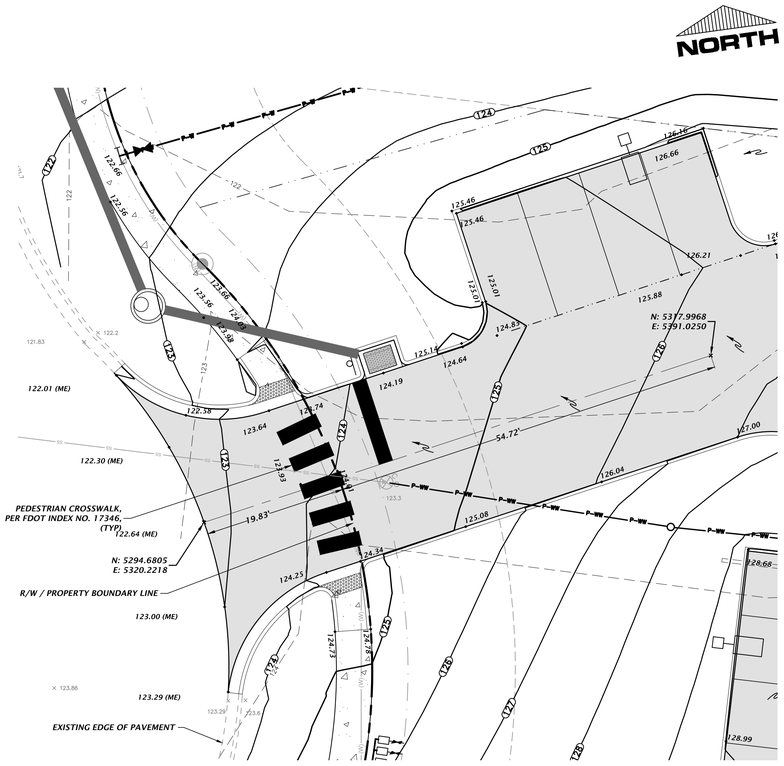
SHEET NO.: C3.11

Tech: bryng Plot Date: Dec 20,2018 3:24pm Filename: L:\2017\17-0357\Engineering\GMDs\Production Files\17-0357_C3.01_DUP.dwg



DRIVEWAY CONNECTION
PLAN VIEW A-A

SCALE: 1"=10'



DRIVEWAY CONNECTION
PLAN VIEW B-B

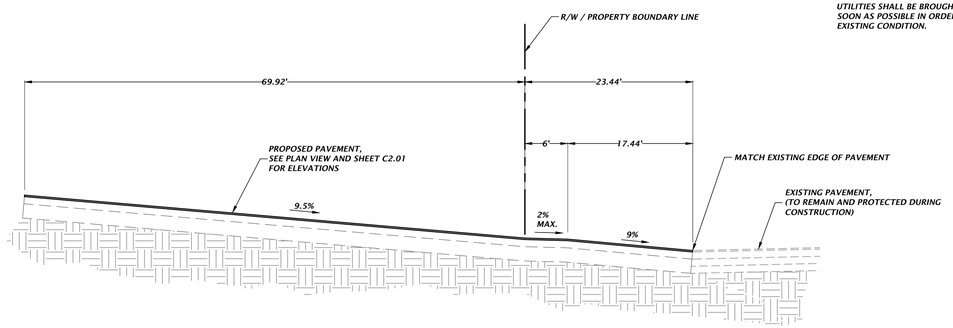
SCALE: 1"=10'

LEGEND:

LIMITS OF PROPOSED PAVEMENT, SEE SHEET C2.30 FOR DETAIL

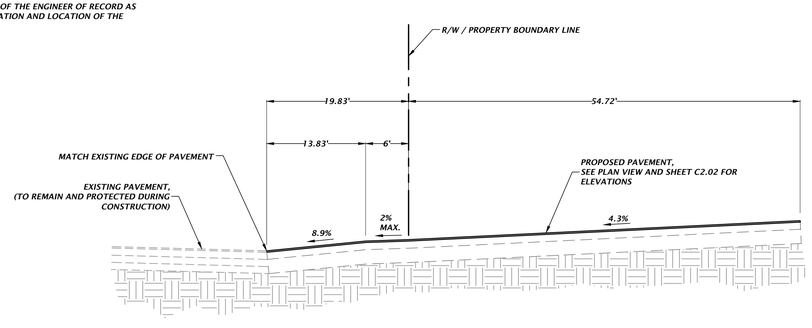
GENERAL NOTES:

1. ALL DISTURBED AREAS TO BE SODDED WITH COMMON BERMUDA. FINE GRADE PRIOR TO SODDING.
2. REMOVE AND REPLACE EXISTING PAVEMENT MARKINGS AS NEEDED.
3. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF EXISTING UTILITIES BEFORE STARTING WORK. AND CONFLICT WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AS SOON AS POSSIBLE IN ORDER TO VERIFY THE ELEVATION AND LOCATION OF THE EXISTING CONDITION.



DRIVEWAY CONNECTION
PROFILE VIEW A-A

SCALE: 1"=10'



DRIVEWAY CONNECTION
PROFILE VIEW B-B

SCALE: 1"=10'

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SCALE: 1" = 10'
VERIFY SCALE BAR IS CORRECT ON PLOTTED DRAWING
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CONSTRUCTION/BID REVISIONS:

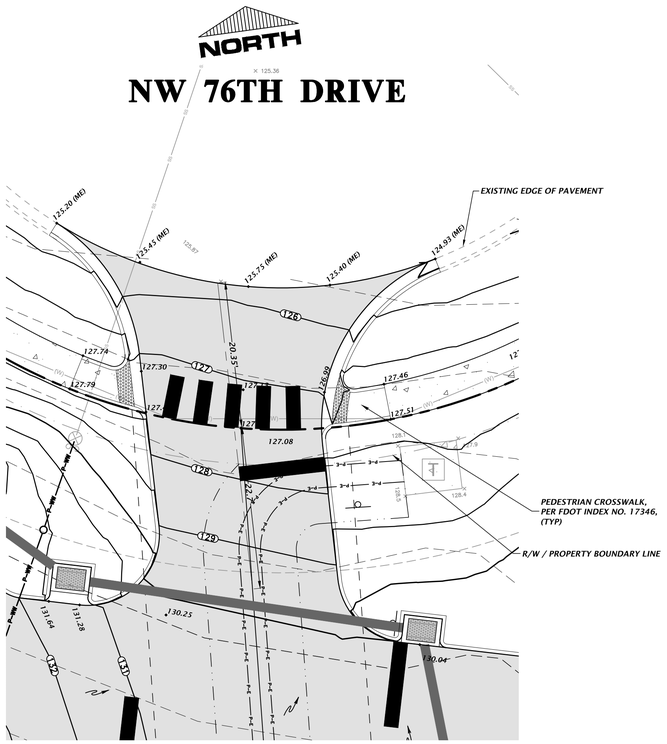
SUBMITTALS:
12/21/17 – CITY OF ALACHUA AND SRWMD
06/06/18 – CITY OF ALACHUA
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

CLIENT: BNW HOLDINGS, LLC
PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5
SHEET TITLE: DRIVEWAY CONNECTION

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QUALITY CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

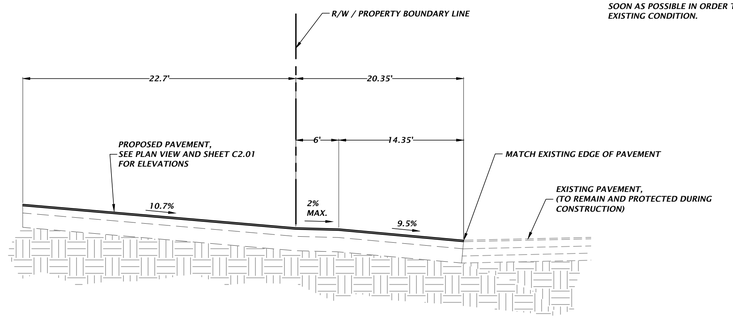
DANIEL H. YOUNG
DANIEL H. YOUNG * LICENSE * No. 70780 * STATE OF FLORIDA * PROFESSIONAL ENGINEER
Jan 4 2019
FL PE No. 70780

SHEET NO.: C5.00



DRIVEWAY CONNECTION PLAN VIEW C-C

SCALE: 1"=10'



DRIVEWAY CONNECTION PROFILE VIEW C-C

SCALE: 1"=10'

LEGEND:

LIMITS OF PROPOSED PAVEMENT, SEE SHEET C2.30 FOR DETAIL

GENERAL NOTES:

1. ALL DISTURBED AREAS TO BE SODDED WITH COMMON BERMUDA. FINE GRADE PRIOR TO SODDING.
2. REMOVE AND REPLACE EXISTING PAVEMENT MARKINGS AS NEEDED.
3. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
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CHW Professional Consultants

SCALE: 1" = 10'

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON
THIS SHEET ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
12/21/17 – CITY OF ALACHUA AND SRWMD
06/06/18 – CITY OF ALACHUA
10/18/18 – CITY OF ALACHUA
12/17/18 – CITY OF ALACHUA

CLIENT: BNW HOLDINGS, LLC

PROJECT: UPLAND INDUSTRIAL PARK LOTS 2, 3, 4, AND 5

SHEET TITLE: DRIVEWAY CONNECTION

TECHNICIAN: J. THOMAS
DESIGNER: J. THOMAS
QA/QC CONTROL: D. YOUNG
PROJECT NUMBER: 17-0357

DANIEL H. YOUNG
LICENSED PROFESSIONAL ENGINEER
No 70780
JAN 14 2019
STATE OF FLORIDA
FL PE No. 70780

SHEET NO.: C5.01

Tech: brysng Plot Date: Dec 19,2018 8:51am Filename: L:\2017\17-0357\Engineering\CHW\Production Files\17-0357_C5.00_C5.dwg

30% LANDSCAPED AREA REQUIREMENT

PER CITY OF ALACHUA COMPREHENSIVE PLAN FUTURE LAND USE ELEMENT, OBJECTIVE 2.4, POLICY 2.4.A

TOTAL SITE AREA.....	209,959 S.F.
TOTAL PROPOSED LANDSCAPED AREA.....	67,274 S.F.
LANDSCAPED AREA % OF TOTAL SITE AREA..... (MIN. 30%)	32.04%

PARKING AREA LANDSCAPE REQUIREMENTS [Sec. 6.2.2(D)(2)(a) & (b)]

DESCRIPTION	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED
PARKING AREA PERIMETER LANDSCAPE	PARKING PERIMETER = 414 L.F. 4 CANOPY TREES PER 100 L.F. 2 UNDERSTORY/ORNAMENTAL PER 100 L.F. CONTINUOUS ROW OF SHRUBS 17 CANOPY TREES REQUIRED 8 UNDERSTORY TREES REQUIRED CONTINUOUS ROW OF SHRUBS	17 CANOPY TREES PROVIDED 8 UNDERSTORY TREES PROVIDED CONTINUOUS ROW OF SHRUBS PROVIDED
INTERIOR PARKING AREA LANDSCAPE	PARKING AREA = 30,631 S.F. 1 CANOPY TREE REQUIRED PER 2,000 S.F. 10 SHRUBS REQUIRED PER CANOPY TREE REQUIRED 16 CANOPY TREES REQUIRED 160 SHRUBS REQUIRED	16 CANOPY TREES PROVIDED 160 SHRUBS PROVIDED

SITE LANDSCAPE CALCULATIONS [Sec. 6.2.2(D)(1)(c)]

DESCRIPTION	TREE REQUIREMENTS	TREES PROVIDED
PRIMARY SIDE CANOPY TREES (NORTH SIDE)	3 TREES PER ACRE X 4.82 ACRES = 15 CANOPY TREES REQUIRED	45 CANOPY TREES PROVIDED
REAR SIDE CANOPY TREES (SOUTH SIDE)	2 TREES PER ACRE X 4.82 ACRES = 10 TREES REQUIRED	13 CANOPY TREES PROVIDED
EAST SIDE CANOPY TREES	2 TREES PER ACRE X 4.82 ACRES = 10 TREES REQUIRED	10 CANOPY TREES PROVIDED
WEST SIDE CANOPY TREES	2 TREES PER ACRE X 4.82 ACRES = 10 TREES REQUIRED	10 CANOPY TREES PROVIDED
SITE UNDERSTORY TREES	6 UNDERSTORY TREES PER ACRE X 4.82 ACRES = 29 TREES REQUIRED 50% IN FRONT = 15 TREES REQUIRED 25% ON EAST SIDE = 7 TREES REQUIRED 25% ON WEST SIDE = 7 TREES REQUIRED 29 UNDERSTORY TREES REQUIRED	FRONT SIDE 15 UNDERSTORY TREES PROVIDED EAST SIDE 7 UNDERSTORY TREES PROVIDED WEST SIDE 7 UNDERSTORY TREES PROVIDED 29 UNDERSTORY TREES PROVIDED
BUILDING FACADE	647 LINEAR FEET 4 CANOPY TREES PER 100 LIN. FT. REQUIRED = 26 CANOPY TREES REQUIRED + ROW OF SHRUBS	26 CANOPY TREES PROVIDED

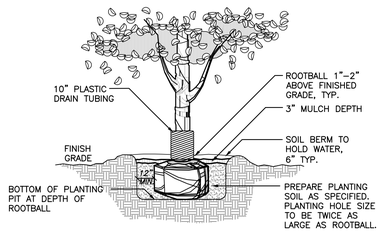
PERIMETER BUFFER LANDSCAPE REQUIREMENTS [Section 6.2.2(D)(3)]

LOCATION	BUFFER LENGTH & TYPE	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED
NORTHERN PERIMETER	578 L.F. BUFFER TYPE 'B'	ONE CANOPY TREE PER 40 LIN. FT. + CONTINUOUS HEDGE = 15 CANOPY TREES REQUIRED PLUS CONTINUOUS HEDGE	15 CANOPY TREES PROVIDED CONTINUOUS HEDGE PROVIDED
WESTERN PERIMETER	325 L.F. BUFFER TYPE 'B'	ONE CANOPY TREE PER 50 LIN. FT. + ONE UNDERSTORY TREE PER 40 LIN. FT. = 7 CANOPY TREES AND 8 UNDERSTORY TREES REQUIRED	7 CANOPY TREES PROVIDED 8 UNDERSTORY TREES PROVIDED
SOUTHERN PERIMETER	660 L.F. BUFFER TYPE 'B'	ONE CANOPY TREE PER 50 LIN. FT. + ONE UNDERSTORY TREE PER 40 LIN. FT. = 13 CANOPY TREES AND 17 UNDERSTORY TREES REQUIRED	13 CANOPY TREES PROVIDED 17 UNDERSTORY TREES PROVIDED
EASTERN PERIMETER	374 L.F. BUFFER TYPE 'A'	ONE CANOPY TREE PER 60 LIN. FT. + ONE UNDERSTORY TREE PER 60 LIN FT.= 7 CANOPY TREES AND 7 UNDERSTORY TREES REQUIRED	7 CANOPY TREES PROVIDED 7 UNDERSTORY TREES PROVIDED

PLANT SCHEDULE

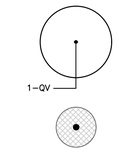
TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
INS	6	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	1.5" CALIPER, MIN.
LIN	22	LAGERSTROEMIA INDICA 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	1.5" CALIPER, MIN.
LIT	12	LAGERSTROEMIA INDICA 'TUSKEGEE'	TUSKEGEE CRAPE MYRTLE	1.5" CALIPER, MIN.
LT	13	LIRIODENDRON TULIPIFERA	TULIP TREE	8' HEIGHT, MIN.
MGB	39	MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY'	BRACKEN'S BROWN BEAUTY MAGNOLIA	8' HEIGHT, MIN.
MGL	24	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	8' HEIGHT, MIN.
PA	8	PRUNUS ANGUSTIFOLIA	CHICKASAW PLUM	1.5" CALIPER, MIN.
QA	15	QUERCUS AUSTRINA	BLUFF OAK	8' HEIGHT, MIN.
QVC	13	QUERCUS VIRGINIANA 'CATHEDRAL'	CATHEDRAL LIVE OAK	8' HEIGHT, MIN.
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
IDB	345	ILEX CORNUTA 'DWARF BURFORDII'	DWARF BURFORD HOLLY	3 GAL, 24" HT X 16" SPR
PM	53	PODOCARPUS MACROPHYLLUS	PODOCARPUS	3 GAL, 24" HT X 12" SPR
VOS	399	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	MRS. SCHILLERS DELIGHT VIBURNUM	3 GAL, 18" HT X 18" SPR
SOD/SEED		BOTANICAL NAME	COMMON NAME	SIZE
SOD		PASPALUM NOTATUM 'ARGENTINE'	BAHIA GRASS	WEED FREE AND SAND GROWN SOD

1 TREE PROTECTION DETAIL
SCALE: N.T.S.



2 TREE PLANTING DETAIL
SCALE: N.T.S.

LEGEND



NEW TREES TO BE ADDED

EXISTING TREES TO REMAIN

GENERAL NOTES

ALL ASPHALT, LIMEROCK, AND CONSTRUCTION DEBRIS TO BE REMOVED FROM PLANTING BEDS AND AREAS TO BE SODDED PRIOR TO LANDSCAPE INSTALLATION. PLANTING DEPTH OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3'. IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) SANDY LOAM WITH pH 5.5-6.5.

CANOPY TREES SHALL BE A MINIMUM OF EIGHT (8) FEET IN HEIGHT AND ORNAMENTAL OR UNDERSTORY TREES SHALL HAVE A MINIMUM CALIPER OF ONE AND A HALF (1.5) INCHES, UNLESS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.

ALL TREES TO BE PLANTED 1"-2" ABOVE FINISHED GRADE.

ALL LANDSCAPED AREAS TO BE MULCHED WITH 3" THICKNESS OF MULCH. PINE BARK MULCH SHALL BE USED IN ALL AREAS.

LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES WILL NOT BE TOPPED OR PRUNED. TREES TO BE STAKED AS NEEDED, GUYLINES TO BE NON-SYNTHETIC BIODEGRADABLE MATERIAL.

OWNER SHALL BE RESPONSIBLE FOR (1) THE SURVIVAL OF THE LANDSCAPING ELEMENTS AND (2) REMOVAL OF ALL STAKING SYSTEMS WITHIN ONE YEAR. TREES WILL BE STAKED ONLY IF NECESSARY, AND IF STAKED, BIODEGRADABLE TWINE WILL BE USED.

GRASSING

ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH NOXIOUS WEED AND TROPICAL SODA APPLE FREE SOD OR SEEDED AND MULCHED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.

PLANT MATERIAL

ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS PUBLISHED BY THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.

10% OPEN SPACE REQUIREMENT

CITY OF ALACHUA LDR SECTION 6.7.3 (A) STATES THAT THE MINIMUM OPEN SPACE SET ASIDE SHALL BE 10% OF THE DEVELOPMENT SITE. SEE CIVIL PLANS FOR OPEN SPACE CALCULATIONS.

IRRIGATION

LANDSCAPE IRRIGATION TO BE PROVIDED BY AUTOMATIC IRRIGATION SYSTEM IN ACCORDANCE WITH CITY OF ALACHUA LDR SECTION 6.2.2(D)(6)(B)(VI). SEE SHEET IR-1 FOR IRRIGATION DIAGRAM.

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est. 1988 FLORIDA LC26000564
CHW Professional Consultants

SCALE: N/A

VERIFY SCALE BAR IS CORRECT FOR THIS PLOT
0 1" IF NOT ONE INCH ON THIS LINE ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
1 - CITY OF ALACHUA AND SJWMD - 09-25-18
2 - CITY OF ALACHUA - 10-19-18
3 - CITY OF ALACHUA - 12-20-18

CLIENT: BNW HOLDINGS, LLC

PROJECT: UPLAND INDUSTRIAL PARK - LOTS 2/3 AND 4/5, ALACHUA, FL

SHEET TITLE: LANDSCAPE CALCULATIONS AND PLANT SCHEDULE

TECHNICIAN: SK
DESIGNER: SK
QUALITY CONTROL: CT
PROJECT NUMBER: 17-0357

SHEET NO.: LS-1

Tech: sarak Plot Date: Dec 19,2018 6:20pm Filename: L:\2017\17-0357\Design\02_Production\02_SPR\02_Current\17-0357 Design Base.dwg

GRAPHIC SCALE

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N

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est. 1988 FLORIDA
LC26000564

CHW
Professional Consultants

SCALE: 1" = 30'

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET ADJUST
SCALES ACCORDINGLY.

0 1"

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
1 – CITY OF ALACHUA AND SJWMD – 02–05–18
2 – CITY OF ALACHUA – 10–18–18
3 – CITY OF ALACHUA – 12–20–18

CLIENT: BNW HOLDINGS, LLC

PROJECT: UPLAND INDUSTRIAL PARK – LOTS 2/3 AND 4/5, ALACHUA, FL

SHEET TITLE: LANDSCAPE PLAN

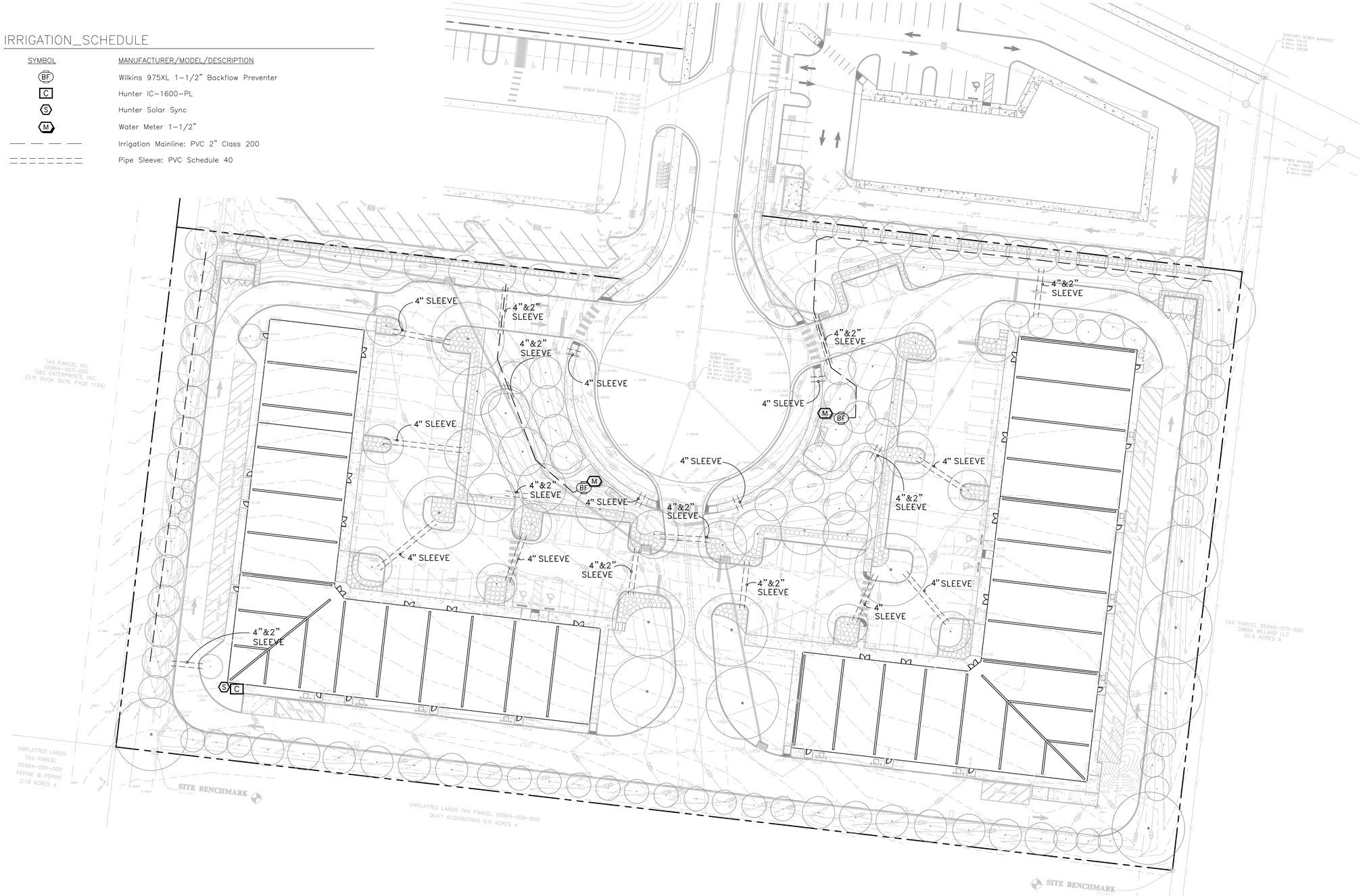
TECHNICIAN: SK
DESIGNER: SK
QUALITY CONTROL: CT
PROJECT NUMBER: 17–0357

SHEET NO.: LS–2

Tech: scrick Plot Date: Dec 19,2018 5:03pm Filename: L:\2017\17-0357\Design\03_Production\03_SPR\03_Current\17-0357 Design Base.dwg

IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
BF	Wilkins 975XL 1-1/2" Backflow Preventer
C	Hunter IC-1600-PL
S	Hunter Solar Sync
M	Water Meter 1-1/2"
— — — —	Irrigation Mainline: PVC 2" Class 200
=========	Pipe Sleeve: PVC Schedule 40



GRAPHIC SCALE

0 15 30 60

N

11801 Research Drive
Alachua, FL 32615
(352) 331-1976
(352) 331-2476
www.chw-inc.com
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SCALE: 1"=30'

VERIFY SCALE BAR IS CORRECT FOR PLOTTED SIZE
0 30 60
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

SUBMITTALS
- 08-31-18 – CITY OF ALACHUA AND SJWMD
- 10-19-18 – CITY OF ALACHUA
- 12-20-18 – CITY OF ALACHUA

CONSTRUCTION/BID REVISIONS:

CLIENT: BNW HOLDINGS, LLC

PROJECT: UPLAND INDUSTRIAL PARK – LOTS 2/3 AND 4/5, ALACHUA, FL

SHEET TITLE: IRRIGATION DIAGRAM

TECHNICIAN: SK
DESIGNER: SK
QUALITY CONTROL: CT
PROJECT NUMBER: 17-0357

SHEET NO.: IR-1

Tech: sarak Plot Date: Dec 19,2018 6:26pm Filename: L:\2017\17-0357\Design\03_Production\02_SPR\02_Sorrell\17-0357 IR Base.dwg

LUMINAIRE SCHEDULE FOR PHOTOMETRICS

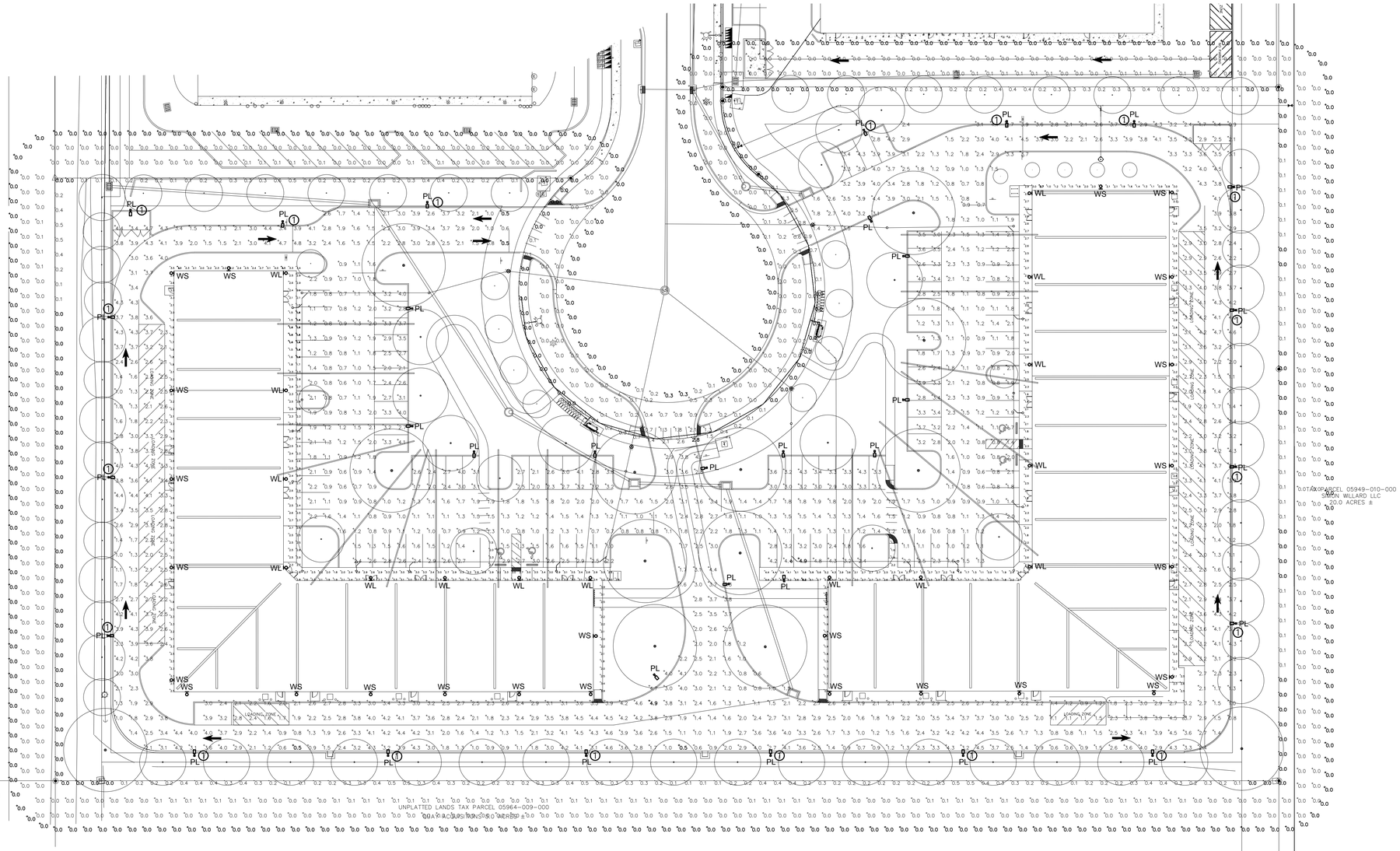
Symbol	Label	Qty	Manufacturer	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts	MH
▭	PL	32	LEOTEK	AR13-10M2-MV-NW-3-XX-530	Leotek Electronics - Pole arm mount roadway luminaire. Product ID: ARXX-10M2-MV-NW-3-XX-530 S		ARXX-10M2-MV-NW-3-XX-530 S.ies	7780	0.81	124	15
○	WS	25	GARDCO	122L-4-55LA-NW	122 SlenderForm LED Sconce	(1) LIGHT ARRAY OF 32 LEDs DRIVEN AT 530mA	122-4-55LA-NW.IES	4090	0.81	50	15
○	WL	15	GARDCO	122L-4-75LA-NW	122 SlenderForm LED Sconce	(1) LIGHT ARRAY OF 32 LEDs DRIVEN AT 700mA	122-4-75LA-NW.IES	5276	0.81	70	15

PHOTOMETRIC STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
25FT BEYOND PROPERTY LINE	+	0.0 fc	0.3 fc	0.0 fc	N / A	N / A
PROPERTY LINE	+	0.2 fc	2.8 fc	0.0 fc	N / A	N / A
DRIVEWAYS/LOADING	+	2.7 fc	4.9 fc	0.5 fc	9.8:1	5.4:1
PARKING LOT	+	1.8 fc	4.9 fc	0.5 fc	8.2:1	3.0:1
WEST BUILDING WALKWAYS	+	2.5 fc	4.1 fc	1.4 fc	2.9:1	1.8:1
EAST BUILDING WALKWAYS	+	2.4 fc	6.2 fc	0.7 fc	8.9:1	3.4:1

FIXTURE & PHOTOMETRICS NOTES

1. PROPOSED POLE LIGHTS SHALL BE MOUNTED AT 15FT AFG, IN ACCORDANCE WITH 6.4.5(A)(1). MAXIMUM LUMENS COMPLY WITH 6.4.4(D)(2). FIXTURES ARE FULL CUT-OFF IN ACCORDANCE WITH 6.4.4(F)(1).
2. PROPOSED WALL MOUNT ARE FULL CUT-OFF IN ACCORDANCE WITH 6.4.4(F)(1).
3. CALCULATED LIGHT VALUES COMPLY WITH 6.4.4(C)(2) AND 6.4.4(E).



SITE PHOTOMETRIC PLAN

SCALE: 1" = 30'-0"

GRAPHIC SCALE 0 15 30 60

GENERAL NOTES

1. HIGHLIGHTED POINTS REPRESENT MAXIMUM/MINIMUM VALUE FOR EACH AREA.
2. FIXTURES WILL BE CONTROLLED WITH PHOTOCELL AND OPERATE DUSK-TO-DAWN.
3. FIXTURES SHALL BE LOCATED MINIMUM 24" BEHIND FACE OF CURB.

PLAN NOTES

① THIS FIXTURE TO BE PROVIDED WITH HOUSE-SIDE SHIELD TO PREVENT LIGHT TRESPASS.

HUNTER DESIGN AND CONSULTING, INC.
735 ARLINGTON AVE N, STE 308
ST PETERSBURG, FL 33701
352-238-6366
FLORIDA CA #31946, PE #76961

UPLAND INDUSTRIAL PARK

SITE PHOTOMETRIC PLAN

ALACHUA, FLORIDA

PROJECT INFORMATION	
PROJECT NUMBER:	17096
DRAFTED:	K. HUNTER
DESIGNED:	K. HUNTER
REVIEWED:	K. HUNTER
ISSUE DATE:	12/20/18
REVISIONS	

SHEET NUMBER

E-1