

Traffic / Transportation Offices in: Florida Puerto Rico Connecticut Maryland

Structural

Surveyors

Plans Prepared By: CPH, Inc. 5200 Beifort Rd., Suite 220 Jacksonville, FL 32256 Ph: 904.332.0999 Licenses: Eng. C.O.A. No. 3215 Survey L.B. No. 7143 Arch. Lic. No. AA2600926 Lndscp. Lic. No. LC0000298

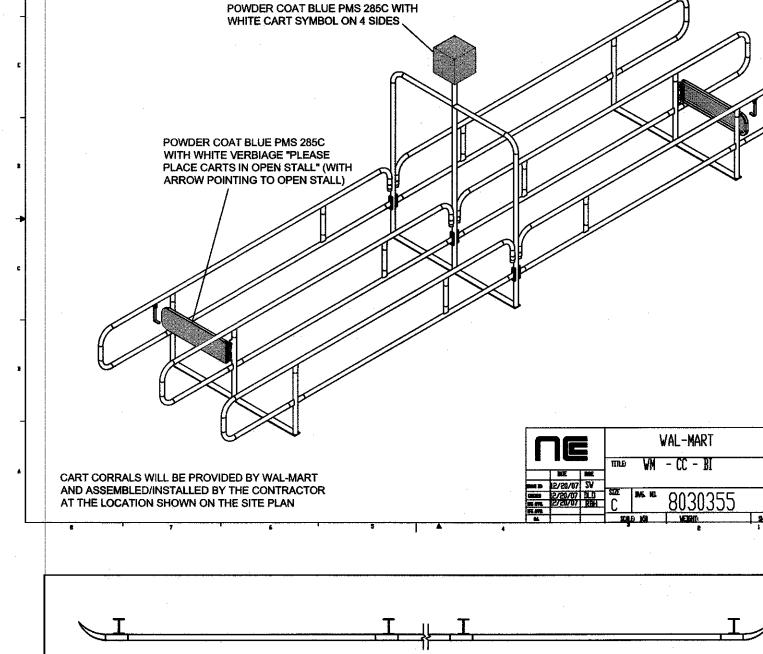
DETAIL

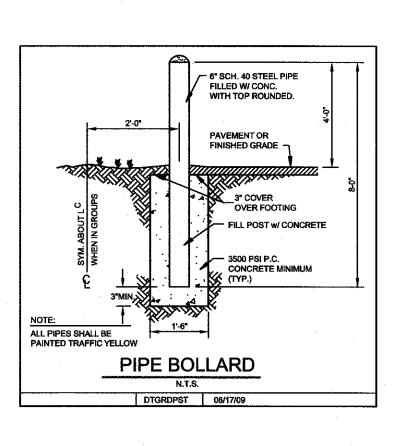
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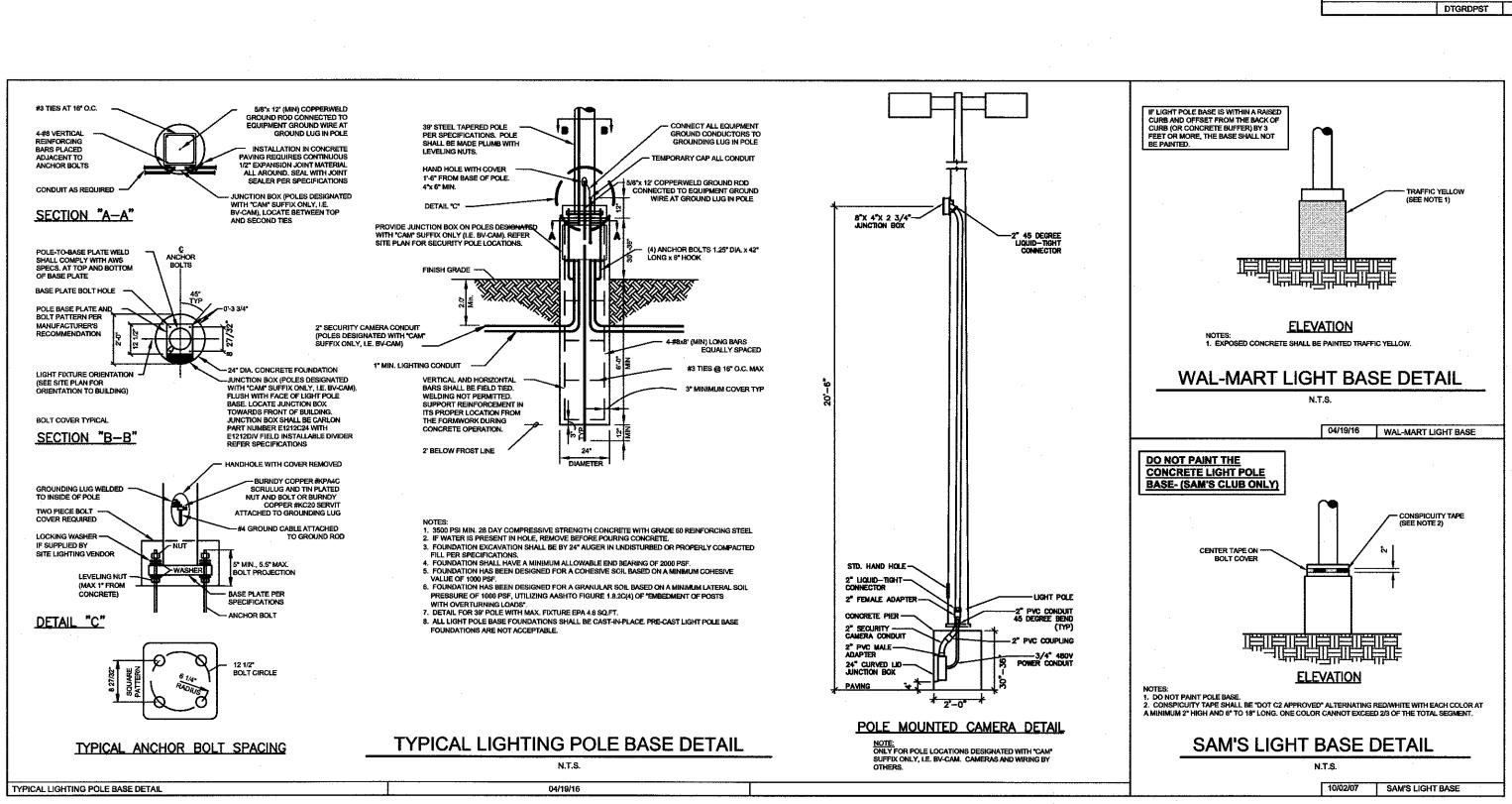
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Sheet No.

POWDER COAT BLUE PMS 285C WITH WHITE CART SYMBOL ON 4 SIDES. POWDER COAT BLUE PMS 285C WITH WHITE VERBIAGE "PLEASE PLACE CARTS IN OPEN STALL" (WITH ARROW POINTING TO OPEN STALL)







CONCRETE PAD -

2 1/2" X 2 1/2" STEEL ------COLUMN POST (TYP.)

3/4" STEEL COLUMN ---

FILLED POST HOLE

STEEL PICKET FENCE DETAIL

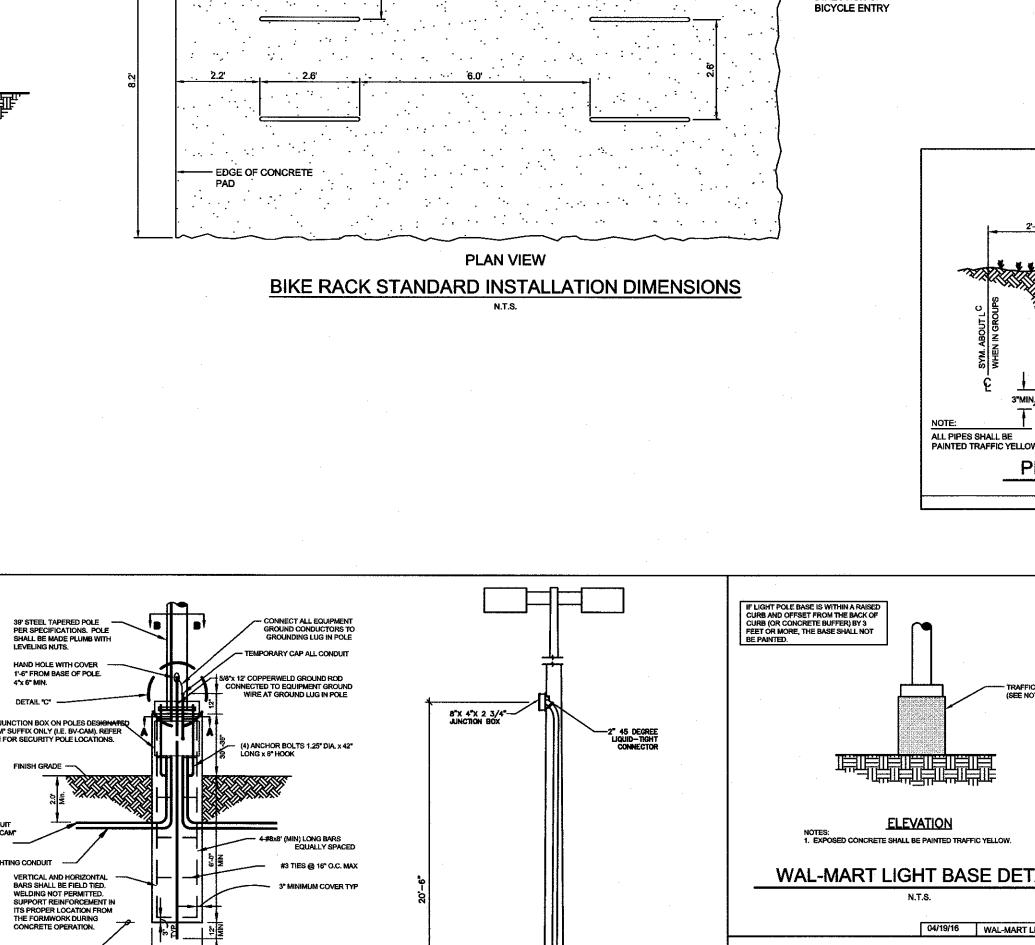
NOTE: CONTRACTOR SHALL CONSTRUCT AND INSTALL THE PROPOSED STEEL PICKET

FENCE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. MANUFACTURER SHALL BE AMERISTAR FENCING, PRODUCTS (PHONE NO. 1-800-321-8724)

@ 8" O.C. (TYP.)

NOTE: COLOR TO BE BLACK

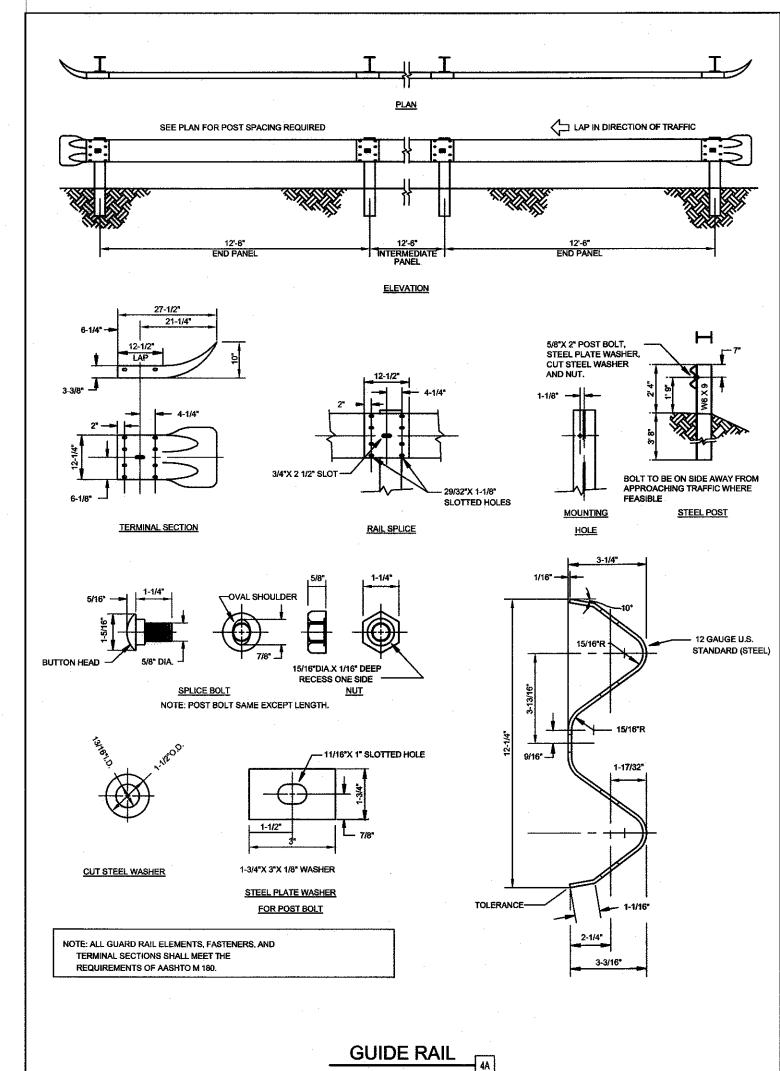
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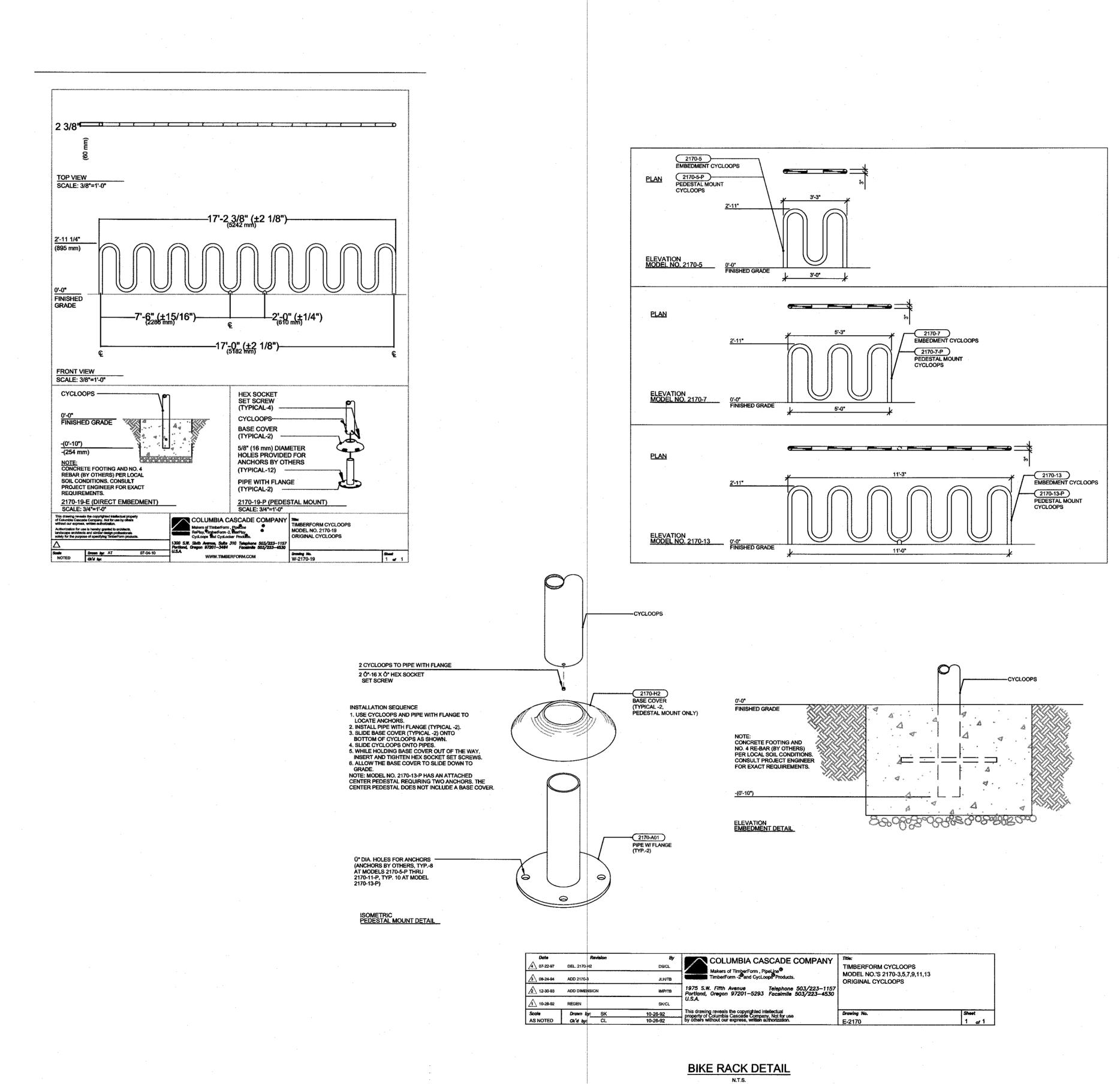


ELEVATION

DIA. GALV. STEEL

- DIRECTION OF





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> Offices in: Florida Puerto Rico Connecticut Maryland

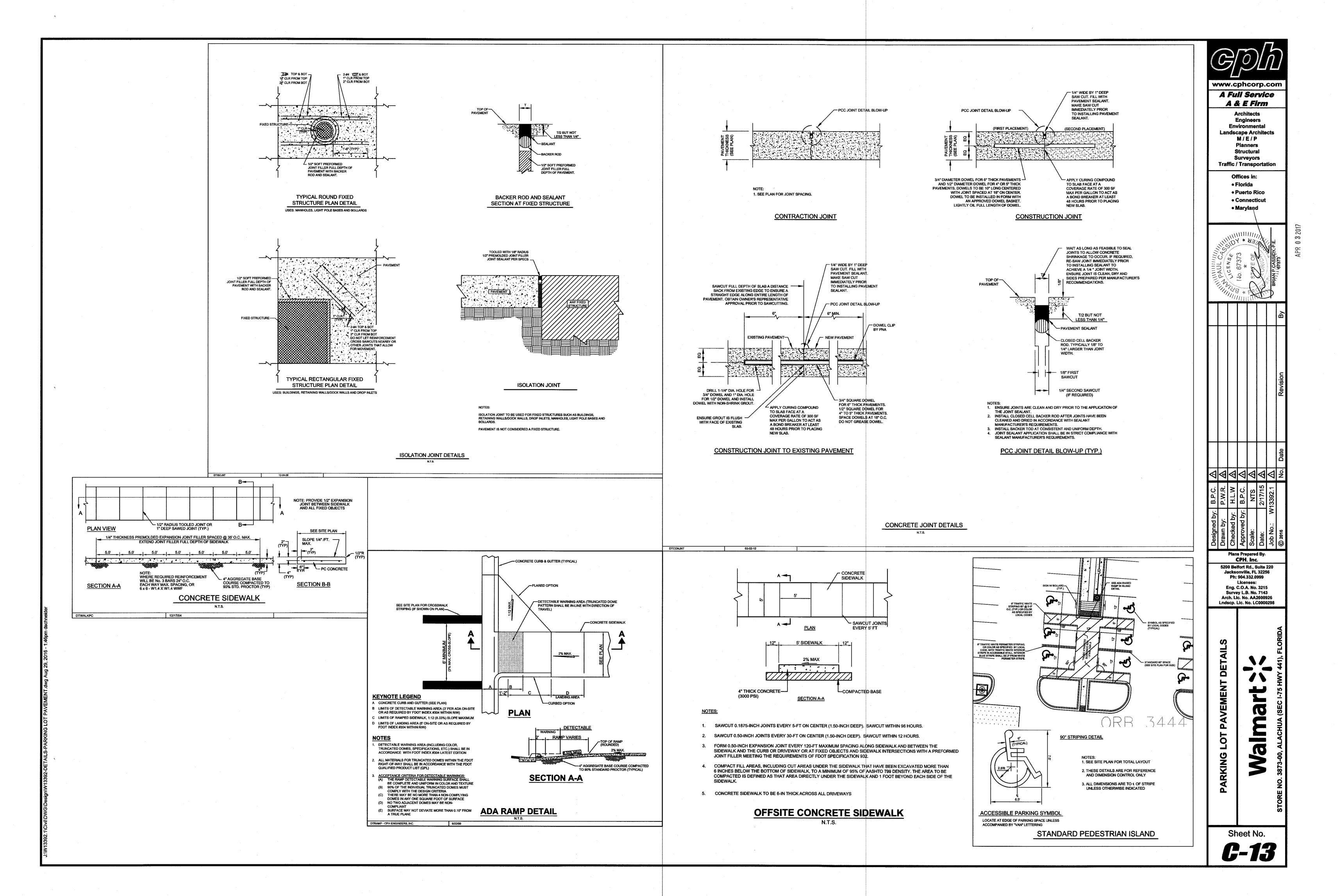
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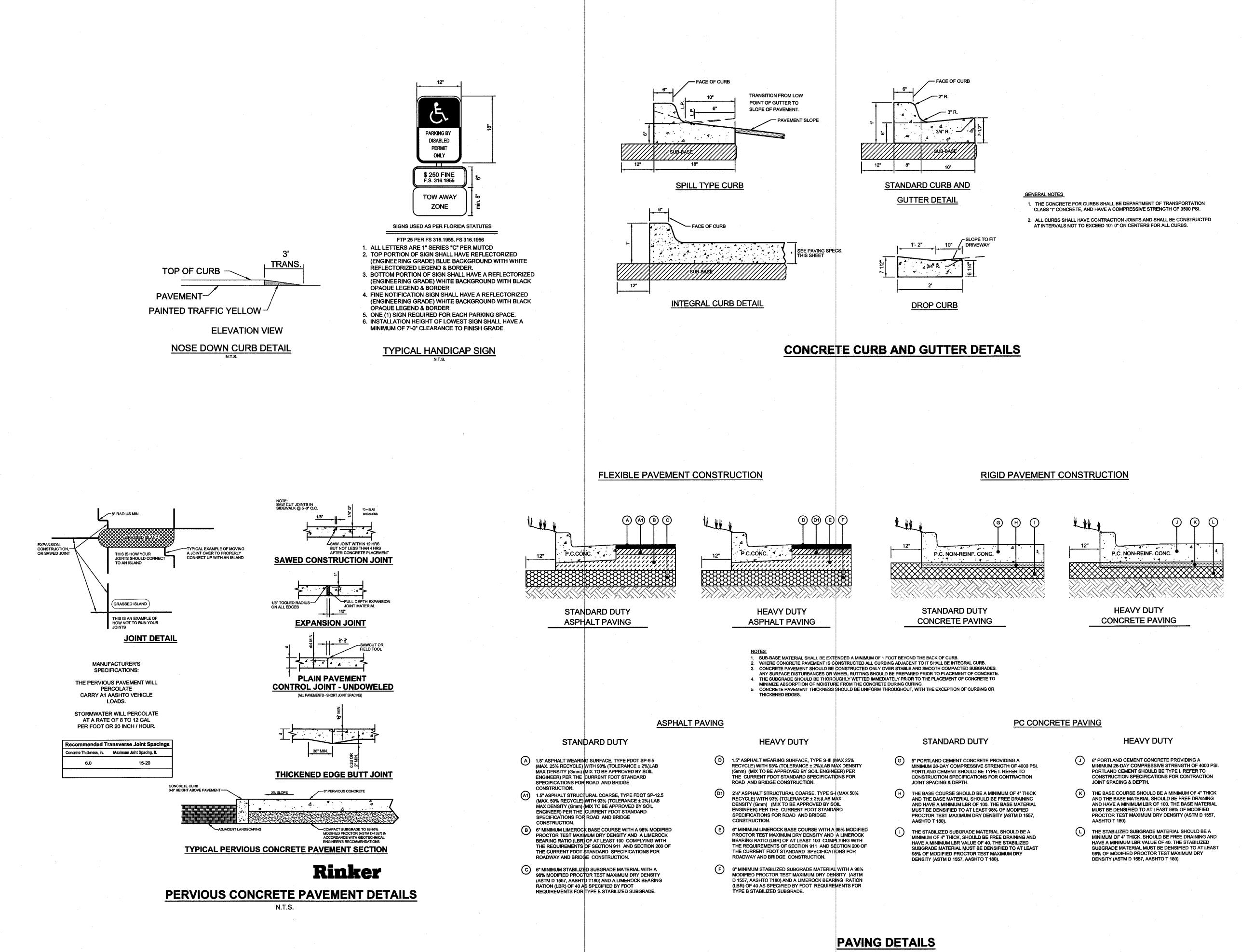
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Arch. Lic. No. AA2600926 Lndscp. Lic. No. LC0000298

MISCELLANEOUS

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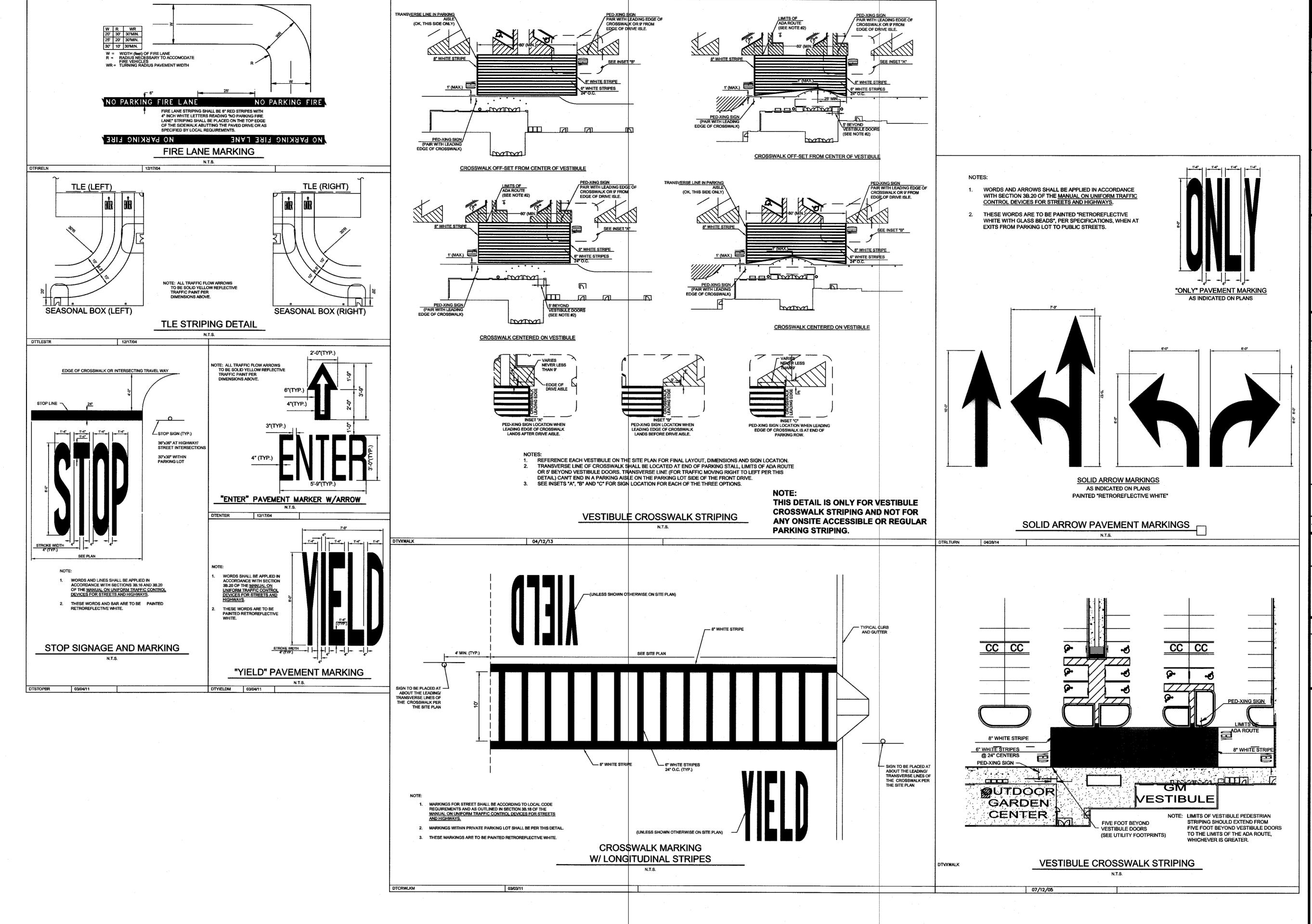
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LOT PARKING

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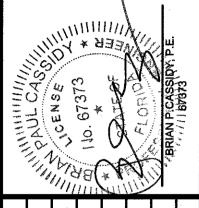
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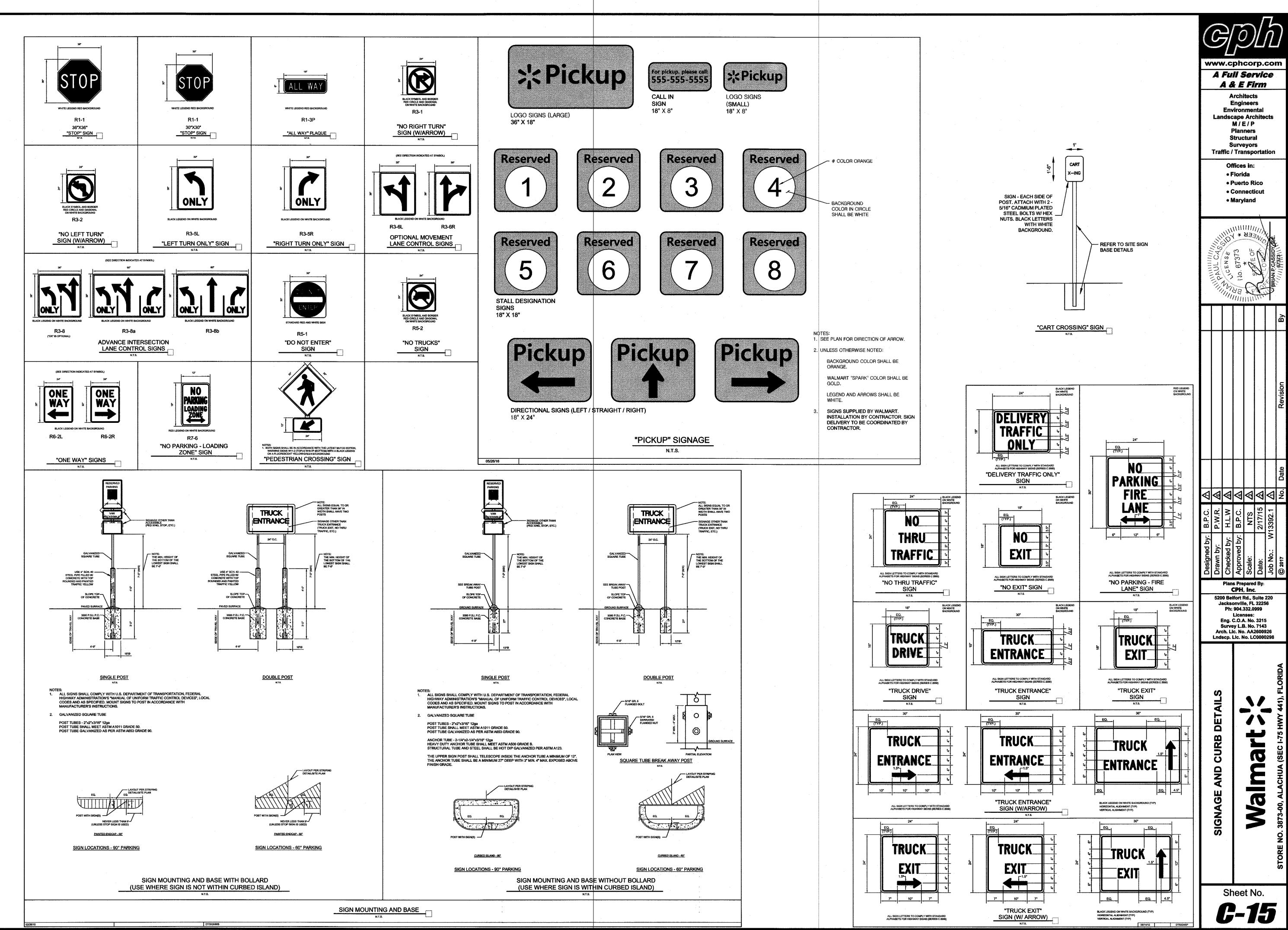
5200 Belfort Rd., Suite 220 Licenses: Eng. C.O.A. No. 3215 Survey L.B. No. 7143 Arch. Lic. No. AA2600926 Lndscp. Lic. No. LC0000298

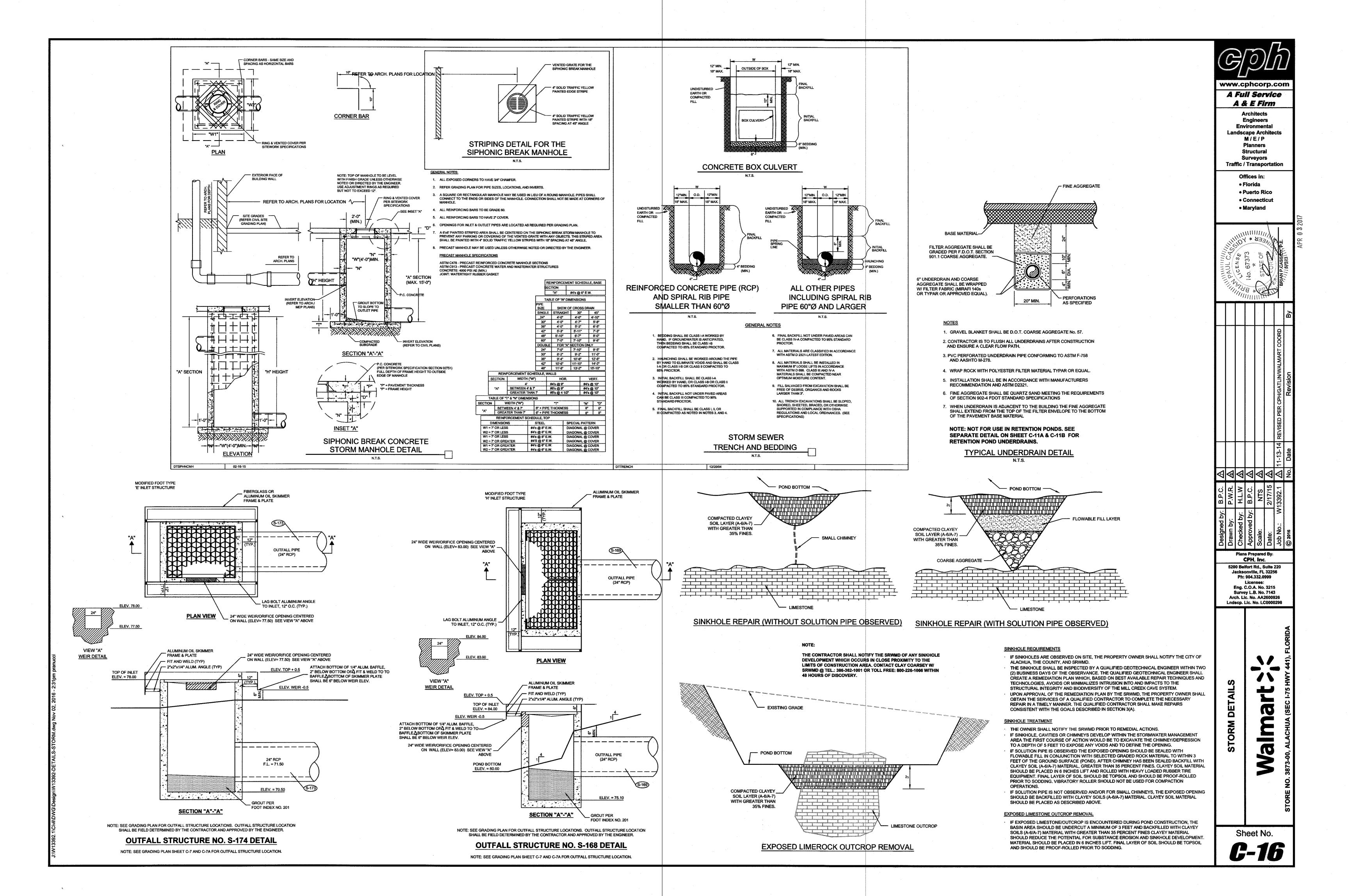
MARKING DETAILS

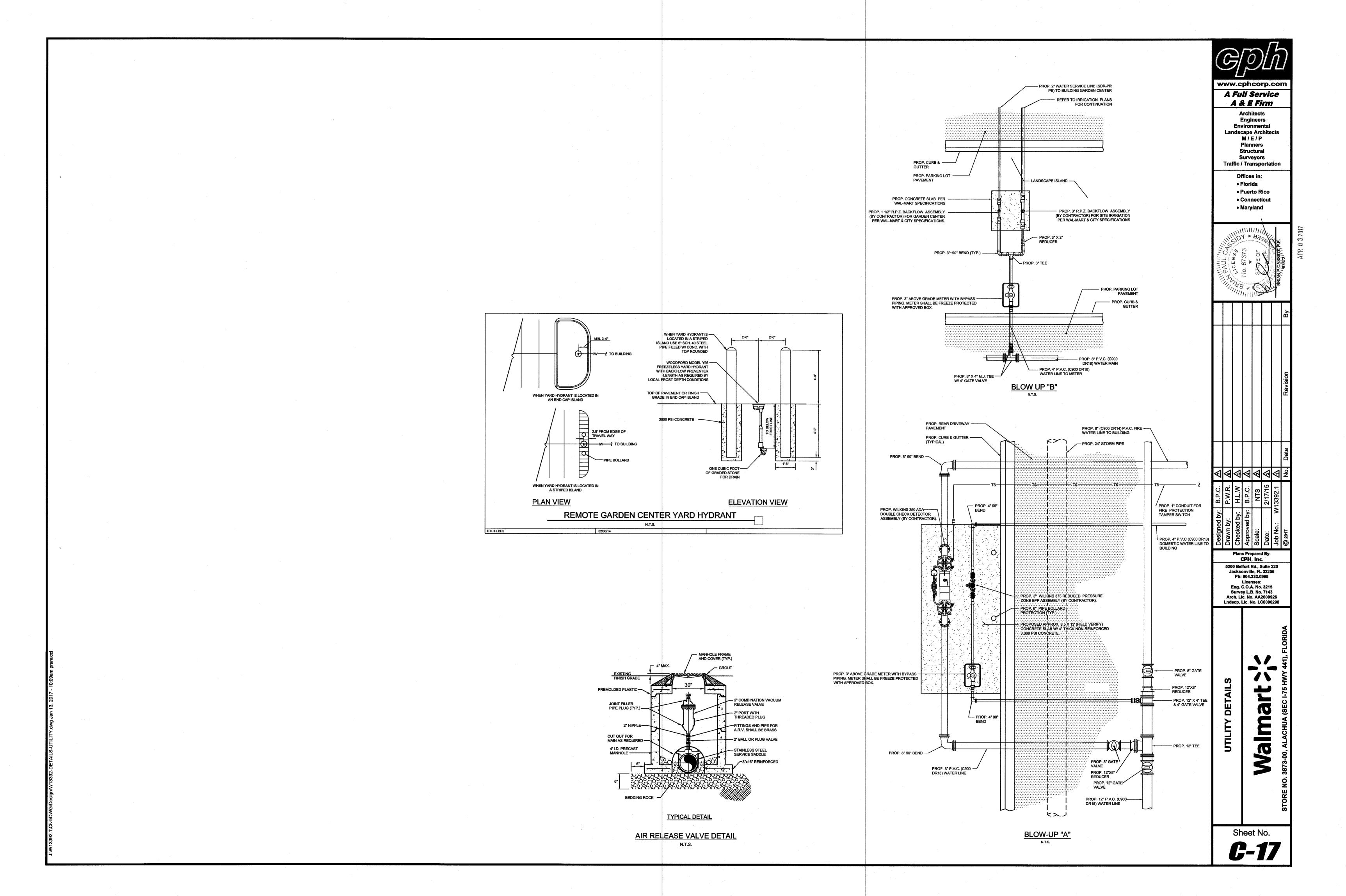
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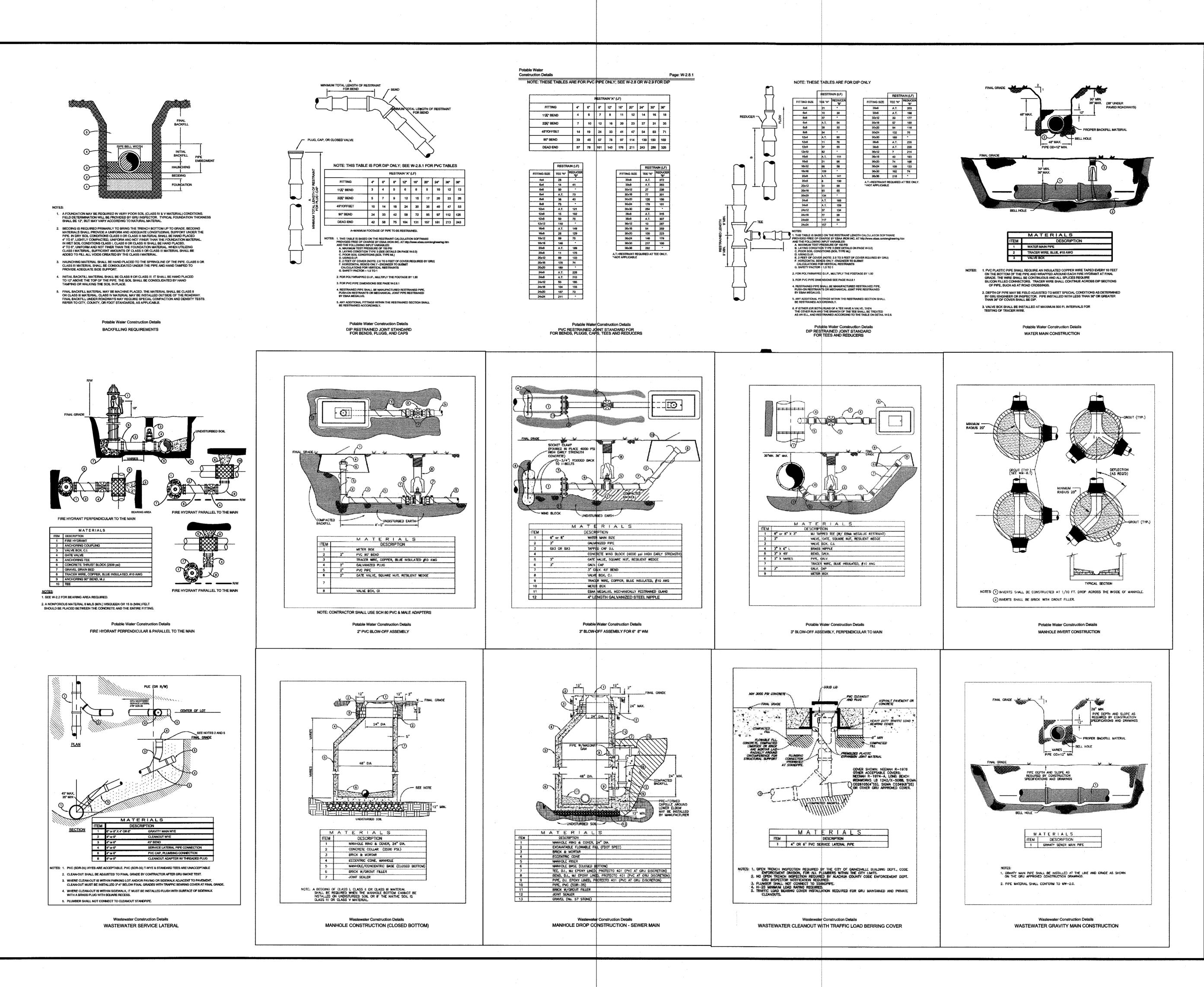
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> Offices in: Florida

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CER + YO

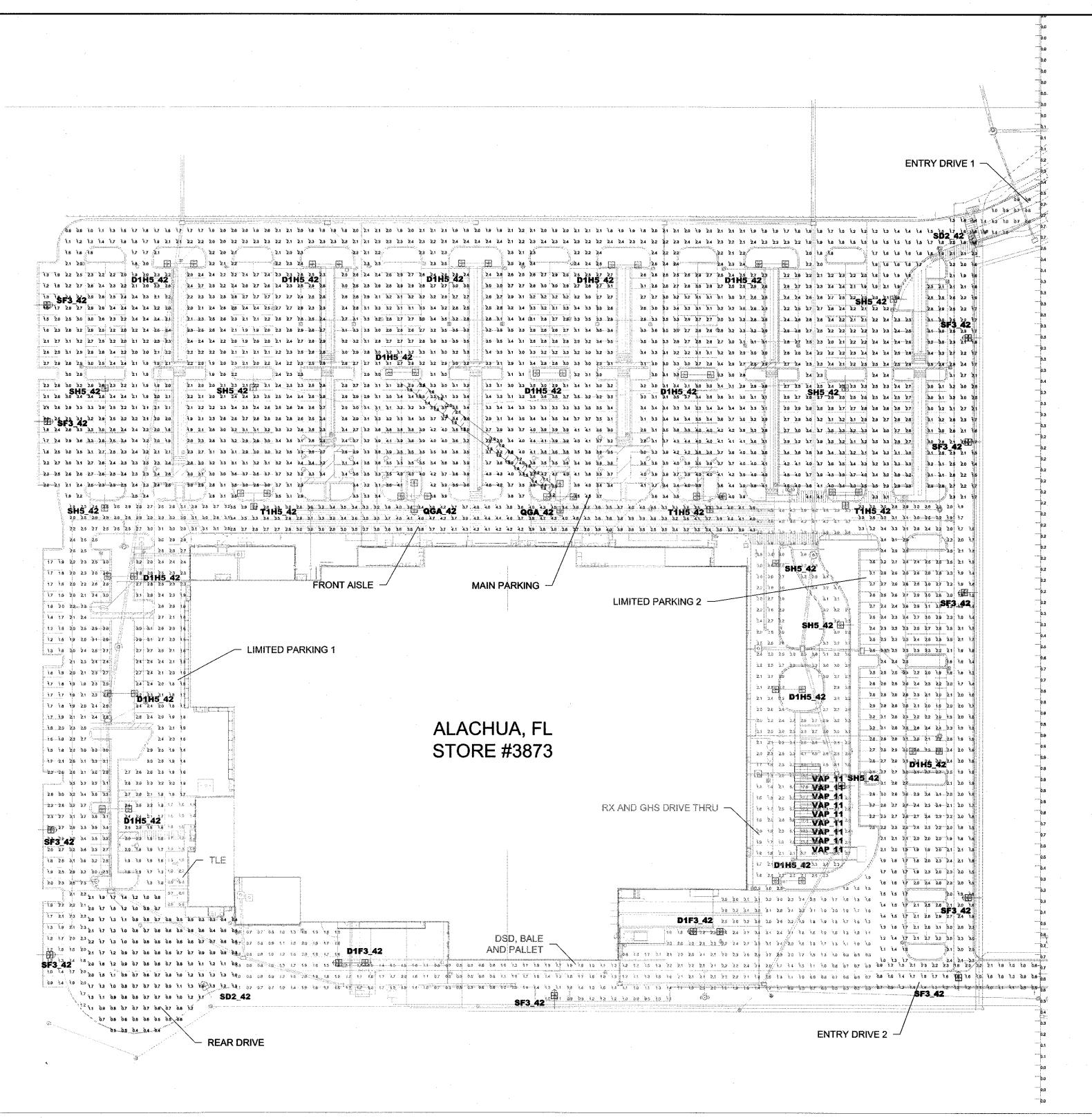
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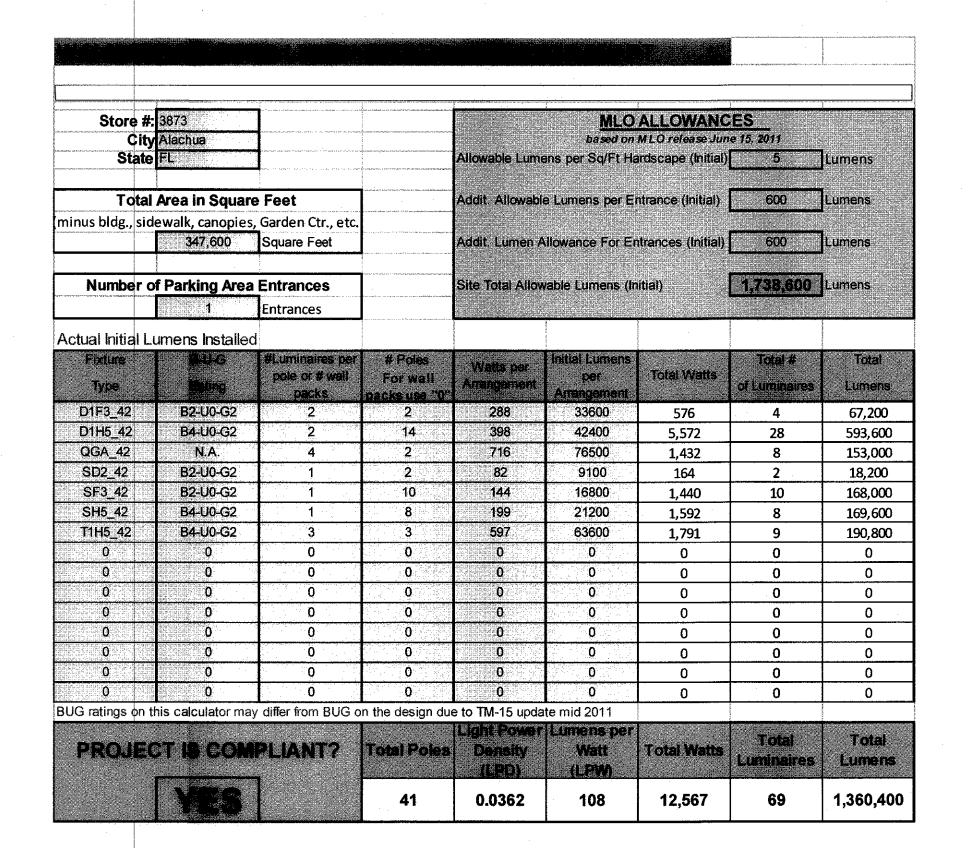
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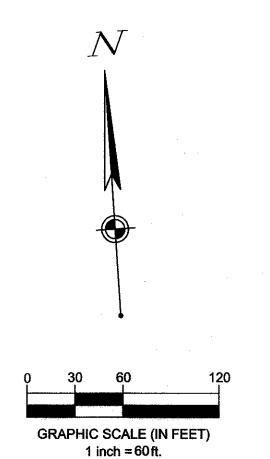
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Symbol	Qty	Label	Arrangement	LLF	Description	Lum. Watts	Lum. Lumens	Arr. Watts	Arr. Lum. Lumens	BUG	Rating
	2	D1F3_42	BACK-BACK	1.000	2-EASC5F3F550DBBLCKDF 39ft pole on 3ft base	144	16800	288	33600	B2-U()-G2
	14	D1H5_42	BACK-BACK	1.000	2-EASC5H5N550DBBLCKDF 39ft pole on 3ft base	199	21200	398	42400	B4-U0)-G2
	2	QGA_42	GROUP	1.000	3-EASC5H5N550DBBLCKDF and 1-EASC5E4F550DBBLCKDF 39ft pole on 3ft base	N.A.	N.A.	716	76500	N.A.	
· State	2	SD2_42	SINGLE	1.000	1-EASC5D2F550DBBLCKDF 39ft pole on 3ft base	82	9100	82	9100	B2-U)-G2
	10	SF3_42	SINGLE	1.000	1-EASC5F3F550DBBLCKDF 39ft pole on 3ft base	144	16800	144	16800	B2-U()-G2
and the second s	8	SH5_42	SINGLE	1.000	1-EASC5H5N550DBBLCKDF 39ft pole on 3ft base	199	21200	199	21200	B4-U)-G2
	3	T1H5_42	3 @ 90 DEGREES	1.000	3-EASC5H5N550DBBLCKDF 39ft pole on 3ft base	199	21200	597	63600	B4-U()-G2
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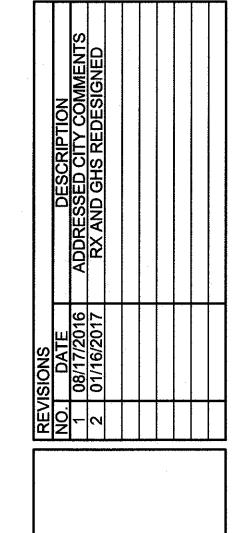


WALMART HARDSCAPE = 347,600 SQ. FT.

Notes:

LED statistics shown are at initial hours.

Label	Avg	Max	Min	Avg/Min	Max/Min
DSD, Bale & Pallet	1.60	3.6	0.5	3.20	7.20
Entry Drive 1	1.05	1.6	0.6	1.75	2.67
Entry Drive 2	1.39	2.3	0.5	2.78	4.60
Front Aisle	3.65	4.7	2.7	1.35	1.74
Limited Parking 1	2.34	3.9	0.9	2.60	4.33
Limited Parking 2	2.31	3.9	1.0	2.31	3.90
Main Parking	2.77	4.6	0.9	3.08	5.11
Rear Drive	0.95	2.2	0.3	3.17	7.33
RX and GHS Drive Thru	3.97	22.3	1.4	2.84	15.93
TLE	1.18	1.7	0.6	1.97	2.83
Vert Main Parking In @ 5' AFG	1.64	2.1	0.9	1.82	2.33
Vert Main Parking Out @ 5' AFG	1.47	1.6	1.2	1.23	1.33
Vert Spill Prop Line @ 5' AFG	0.19	1.0	0.0	N.A.	N.A.



LIGHTING PLAN
WALMART STORE #3873

CREATION TO COMPLETION www.cesoinc.com

SCALE:
AS NOTED

DATE:
01/16/2017

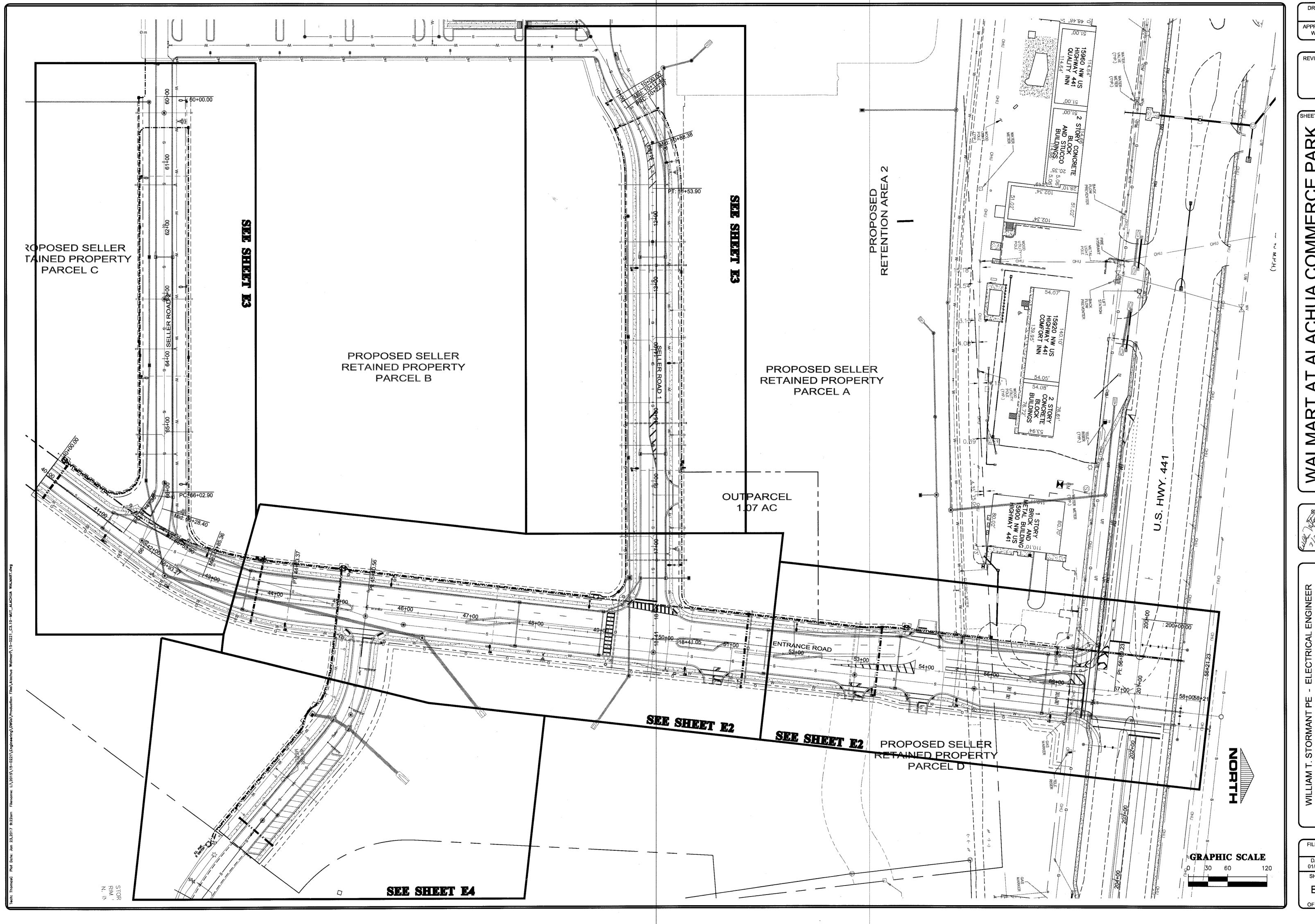
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DESIGN: LEA

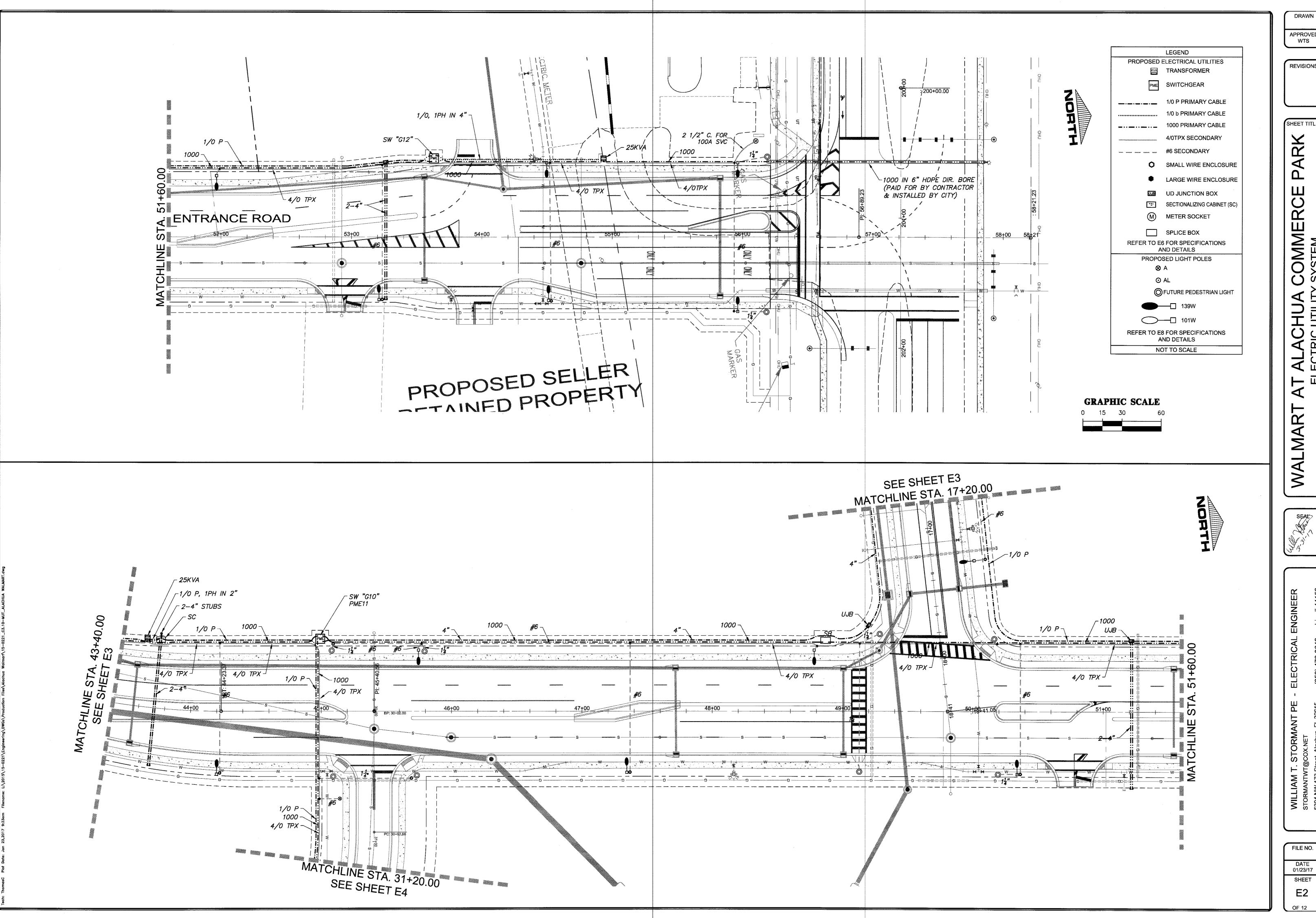
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SHEET NO.
1 OF 1



FILE NO. DATE 01/23/17 SHEET



APPROVED

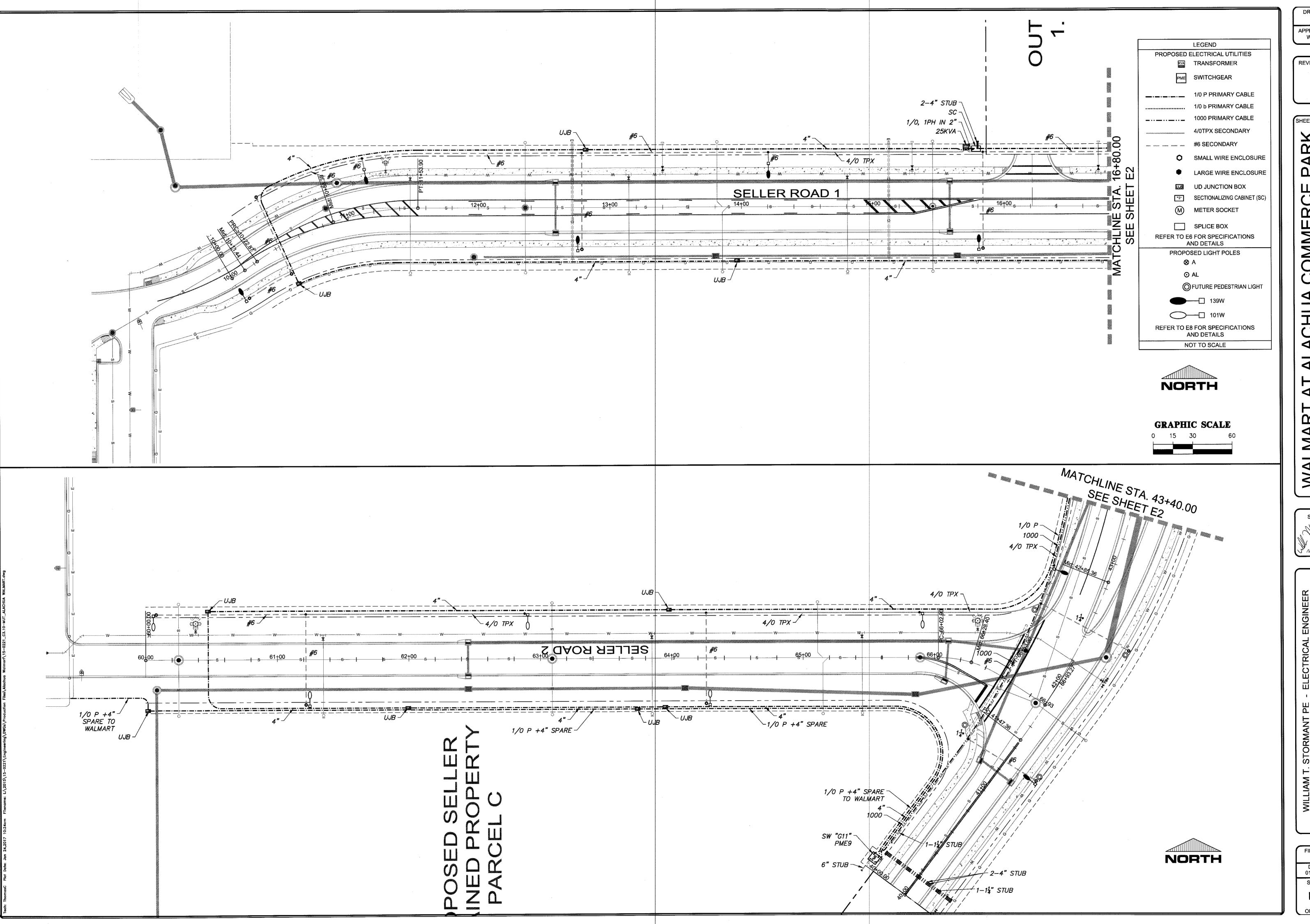
REVISIONS

SHEET TITLE

ARK COMMERCE AT ALACHUA C ELECTRIC UTILITY 8

FILE NO.

01/23/17



DRAWN

APPROVED WTS

REVISIONS

FILE NO. DATE 01/23/17 SHEET

WALMART

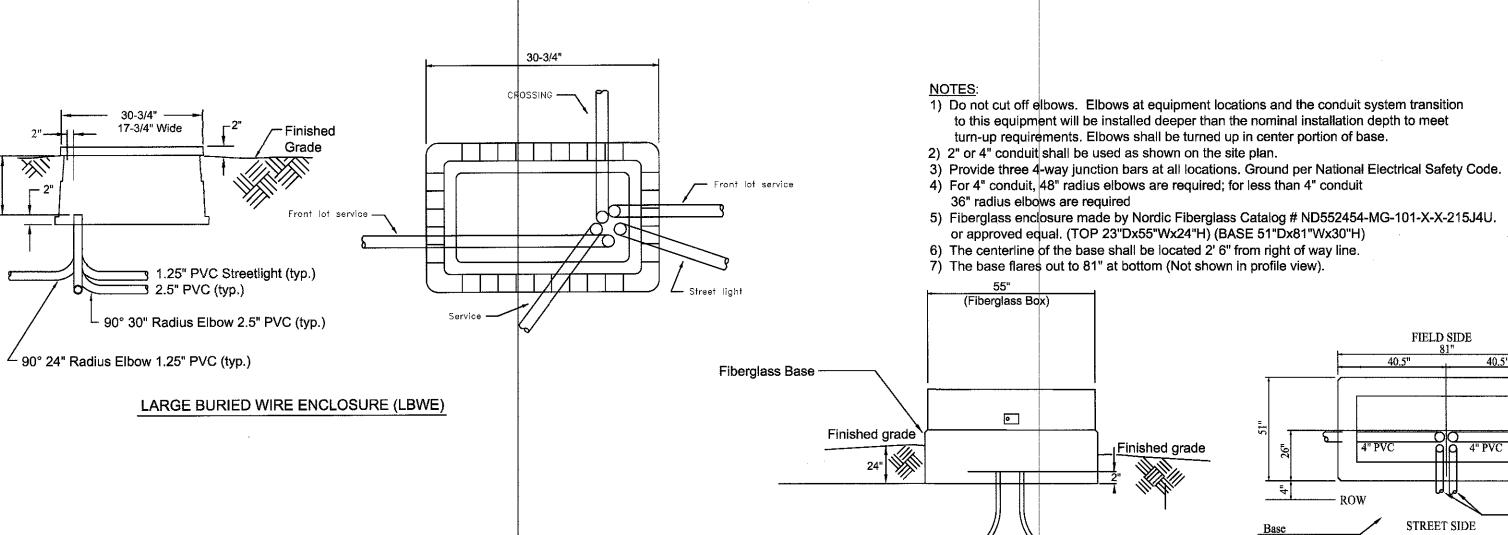
REVISIONS

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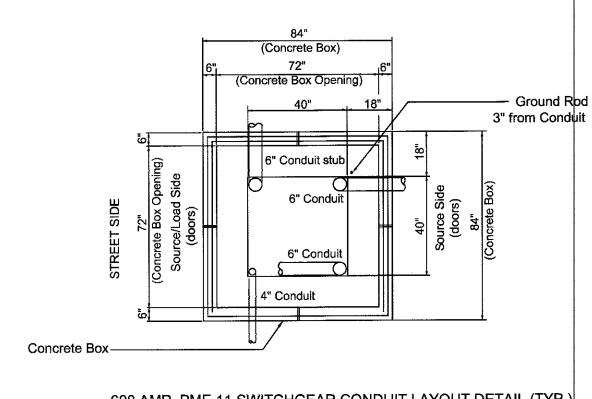
APPROVED WTS





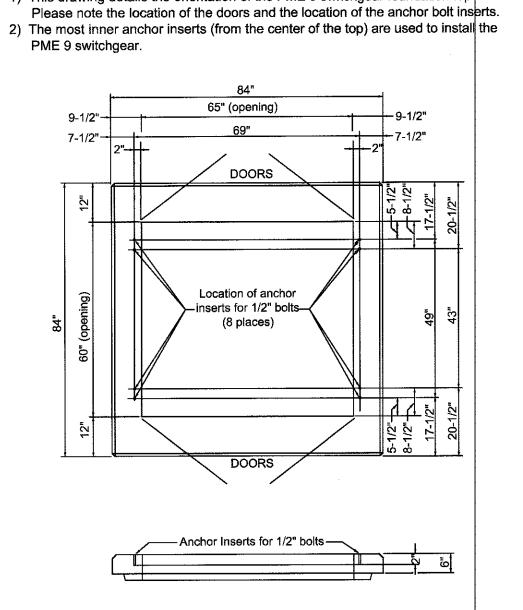
2" Elbows 36" Radius

4" Elbows 48" Radius



600 AMP. PME 11 SWITCHGEAR CONDUIT LAYOUT DETAIL (TYP.)

1) This drawing details the orientation of the PME 9 switchgear foundation top.





1) Contractor shall furnish and install PME9 switchgear, box and top.

Do not cut off elbows.

elbow is required.

Concrete Box-

"Ram Neck" ——

Precast Concrete Box for—/ 600 Amp. PME - Type Switchgear

turn-up requirements.

Precast Concrete

Precast Concrete-Box furnished and installed by owner

Box Top furnished and installed by owner

36" radius elbows are required

with SPGRUPME911 top or approved equal.

Finished grade

Marking tape

2" Elbows 36" Radius 4" Elbows 48" Radius

Provide fuses as required by the utility.

Finished grade

4" Conduit

2) This 48" x 48" area is to be located in the field and used to install conduit before the

4) For 6" and 4" conduit 48" radius elbow is required, for less than 4" conduit 36" radius

(Concrete Box) 72"

4" Conduit stub

600 AMP. PME 9 SWITCHGEAR CONDUIT LAYOUT DETAIL (TYP.)

1) Do not cut off elbows. Elbows at equipment locations and the conduit system transition

3) Complete conduit system and concrete products furnished and installed by Contractor.

6) Pad mounted 600 amp switchgear with SMU-20 fuse holders made by S&C Electric Co..

4) For 6" and 4" conduit, 48" radius elbows are required; for less than 4" conduit

2) 2", 4", or 6" conduit shall be used as shown on the site plan.

to this equipment will be installed deeper than the nominal installation depth to meet

5) Precast box shall be 5000 PSI concrete made by Southern Pre-cast Inc. Catalog # SPSWB0016X6

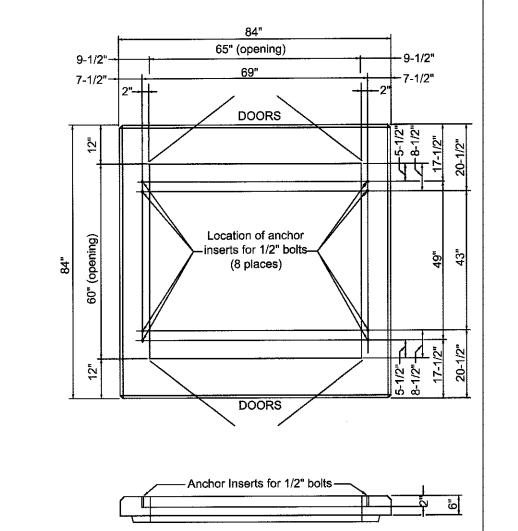
concrete box is installed. This area shall be laid out by the Contractor installing the conduit.

 Ground Rod 3" from Conduit

See Note 2 above.

— Precast Concrete Box Top for 600 Amp. PME - Type Switchgear

6" Conduit



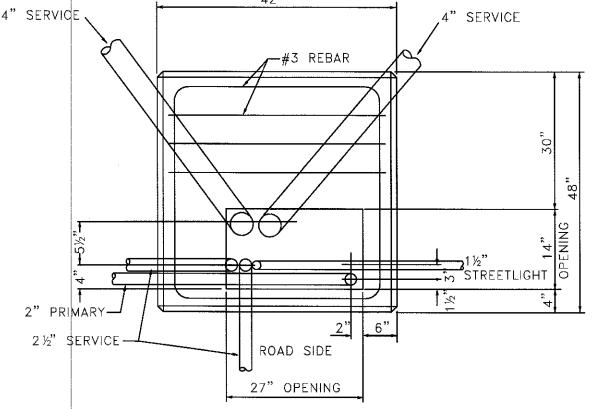
600 AMP. PME 9/11 SWITCHGEAR TOP LAYOUT DETAIL (TYP.)



- 4" or 6" Elbows 48" Radius

ROW/Property Line Road Side UJB DETAIL TRANSFORMER PADS SHALL BE PLACED ON COMPACTED EARTH. 42" 4" SERVICE 4" SERVICE

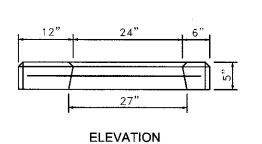
2" or 4" PVC



SECTIONALIZING CABINET (SC) WITH GROUND SLEEVE (TYP.)

FIRE HYDRANTS SHALL BE 5'-0" MINIMUM CLEAR FROM TRANSFORMERS.

CONTRACTOR SHALL NOT OPEN TRANSFORMER, PUSH CONDUIT UNDER TRANSFORMER, OR INSTALL CONDUCTORS WHEN TRANSFORMER IS ENERGIZED. LIFE THREATENING ELECTRICAL SHOCK MAY



TRANSFORMER BUSHINGS WILL ACCOMMODATE UP TO 8 SETS OF 500 KCMIL CONDUCTORS.

SINGLE PHASE TRANSFORMER PAD DETAIL (TYP.)

NOT TO SCALE

- 1. SCOPE OF PROJECT THE WORK SHALL INCLUDE (BUT NOT BE LIMITED TO) THE FOLLOWING COMPLETE (AND OPERATING) SYSTEMS AND AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. CONTRACTOR/DEVELOPER SHALL INSTALL ALL CONDUIT, ENCLOSURES, POLES, LUMINARIES, TRANSFORMER PADS AND SWITCHGEAR GASES. COA WILL BE RESPONSIBLE FOR INSTALLING ALL CONDUCTORS, TRANSFORMERS AND SWITCHGEAR. ALL MAKE UP, CONNECTIONS AND TESTING SHALL BE COMPLETED BY THE C.A..
- 1.1. PROVIDE WIRING, CONDUIT, AND EQUIPMENT FOR A COMPLETE AND OPERATING UTILITY-GRADE UNDERGROUND ELECTRICAL DISTRIBUTION AND UTILITY LIGHTING SYSTEM WITHIN THE DEVELOPMENT.
- 1.2. PROVIDE ALL WIRING, CONDUIT, POLES, LUMINAIRES, AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATING UTILITY OWNED STREET LIGHTING SYSTEM.
- 1.3. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS FOR THIS TYPE FACILITY AND MEET CITY OF ALACHUA UTILITIES POLICIES AND PRACTICES.
- 1.4. ALL SPECIFICATIONS AND PLANS SHALL BE APPROVED BY THE ELECTRIC DEPARTMENT PRIOR TO BIDDING.
- 1.5. "PROVIDE" SHALL MEAN FURNISH, INSTALL, CONNECT, ADJUST, AND TEST EXCEPT WHERE NOTED.

2. MATERIALS AND EQUIPMENT SHALL BE NEW AND SUITABLE FOR THE PURPOSE INTENDED. CUT SHEETS SHALL BE SUBMITTED TO THE ELECTRIC DEPARTMENT PRIOR TO ORDERING FOR APPROVAL. COA WILL PROCURE AT THE DEVELOPER'S EXPENSE ALL MATERIALS NECESSARY FOR THE COMPLETE JOB. CONTRACTOR IS RESPONSIBLE FOR PROCURING AND INSTALLING: CONDUITS, POLES, AND LUMINARIES.

2.1A. UNDERGROUND 15 KV 1/0 AWG AL, 19 STRAND, JACKETED PRIMARY CABLE SHALL HAVE STRAND FILLED CENTRAL CONDUCTOR, SEMI-CONDUCTING CONDUCTOR SHIELD, 175 MIL VIRGIN TREE RETARDANT CROSS-LINKED POLYETHYLENE INSULATION, BLACK CROSS-LINKED POLYETHYLENE SHIELD, FULL CONCENTRIC CU NEUTRAL, WITH INSULATING, BLACK LINEAR LOW DENSITY POLYETHYLENE JACKET EXTRUDED OVER THE NEUTRAL, APPROVED MANUFACTURERS ARE HENDRIX, PIRELLI, PRYSMIAN AND SOUTHWIRE.

2.1B. UNDERGROUND 15 KV 1000 KCMIL AL, 61 STRAND, (3/4 HARD) JACKETED PRIMARY CABLE SHALL HAVE STRAND FILLED CENTRAL CONDUCTOR, SEMI-CONDUCTING CONDUCTOR SHIELD, 175 MIL VIRGIN TREE RETARDANT CROSS-LINKED POLYETHYLENE INSULATION, BLACK CROSS-LINKED POLYETHYLENE SHIELD, 1/3 CONCENTRIC CU NEUTRAL, WITH INSULATING, BLACK LINEAR LOW DENSITY POLYETHYLENE JACKET EXTRUDED OVER THE NEUTRAL. APPROVED MANUFACTURERS ARE HENDRIX, PIRELLI, PRYSMIAN AND SOUTHWIRE.

2.2. UNDERGROUND UD SECONDARY ALUMINUM CABLES SHALL HAVE THERMOSETTING XLP INSULATION WITH YELLOW STRIPE TO IDENTIFY NEUTRAL. 1/0 TRIPLEX - CODE WORD MARION OR BRENAU/EYS; 4/0 TRIPLEX - CODE WORD SWEET BRIAR; #2 TRIPLEX AND #6 TRIPLEX. APPROVED MANUFACTURERS ARE HENDRIX. PIRELLI, AND SOUTHWIRE.

2.3. THE LOAD BREAK ELBOWS SHALL HAVE EPDM RUBBER INSULATION. VERIFY CABLE DIMENSIONS FOR APPLICABILITY. APPROVED MANUFACTURERS ARE ELASTIMOLD, COOPER POWER SYSTEMS, AND RTE.

2.4. SINGLE PHASE PAD MOUNTED TRANSFORMERS SHALL BE DEAD FRONT, LOOP FEED CAPABILITY, HIGH VOLTAGE 12470 GRD Y 7200 VOLTS, LOW VOLTAGE 240 GRD Y/120 VOLT, 95 KV BIL, COMPARTMENTAL TYPE, RATINGS BASED ON 65 DEGREE C WINDING RISE, HIGH GRADE, COLD REDUCED, GRAIN ORIENTED SILICON STEEL CORE, 8.3/14.4 KV CLASS BUSHING WELLS AND LOAD BREAK INSERTS, LOW VOLTAGE TERMINALS SHALL BE STUD TYPE, TANK SHALL BE SEALED AND FURNISHED COMPLETE WITH PCB FREE DIELECTRIC OIL, AND DOORS SHALL BE PAD LOCKABLE. TRANSFORMERS SHALL BE PROTECTED WITH A BAYONET FUSE. SHALL BE EQUIPPED WITH A PRESSURE RELIEF DEVICE. ALL TRANSFORMERS. SHALL MEET OR EXCEED THE JANUARY 1, 2010 D.O.E. EFFICIENCY LEVELS FOR LIQUID FILLED TRANSFORMERS. TRANSFORMERS WILL BE MOUNTED ON A WINDOWED, PRECAST PAD SUITABLE FOR THE TRANSFORMER. APPROVED PRE-CAST PAD MANUFACTURER IS TRENWA OR APPROVED EQUAL. APPROVED TRANSFORMER MANUFACTURERS ARE COOPER SYSTEMS, HOWARD, GENERAL ELECTRIC AND ABB.

2.5. SECONDARY CABLES SHALL BE TERMINATED WITHIN THE TRANSFORMERS ON STUD TYPE TRANSFORMER TERMINALS WITHIN SINGLE PHASE TRANSFORMERS. APPROVED MANUFACTURERS UTILCO, CMC, ESP AND PREFORMED LINE PRODUCTS.

2.6A, "SMALL BURIED WIRE ENCLOSURE" (SBWE), SECONDARY JUNCTION BOX SHALL BE MADE OFHIGH DENSITY POLYETHYLENE AND TOP. APPROXIMATE DIMENSTIONS 10" TOP DIAMETER, 19" DEPTH, BASIS OF DESIGN PENCELL PLASTICS PE-10HDH EITH ELECTRIC ID.

2.6B. "LARGE BURIED WIRE ENCLOSURE" (LBWE), FOR SECONDART CONNECTIONS SHALL BE MADE OF POLYMER CONCRETE BOX WITH FIBERGLASS COVER. BASIS OF DESIGN CDR SYSTEM CORP. PA10-1730-18.

2.6C. SECONDARY CONNECTIONS MADE WITHIN ENCLOSURES SHALL BE DIRECT BURIAL, BOLTED TYPE. APPROVED MANUFACTURERS ARE UTILCO, CMC, AND ESP.

2.7. PVC CONDUIT SHALL BE SCHEDULE 40, HEAVY WALL, RATED FOR 90C. CABLE, UL LISTED IN 10 OR 20 FOOT LENGTHS WITH INTEGRAL BELLS. ALL 6" ELBOWS SHALL BE FIBERGLASS WITH 48" RADIUS WITH APPROPRIATE TRANSITION FITTINGS. VERTICAL 6" ELBOWS SHALL BE ANCHORED WITH TWO BAGS OF CEMENT. ALL OTHER ELBOWS SHALL BE PVC SCHEDULE 40 WITH LONG RADIUS SWEEPS.

2.8. PROVIDE PARKING STAND ARRESTORS TO BE INSTALLED AT EACH OPEN POINT AND ELBOW ARRESTORS AT END POINT. APPROVED MANUFACTURER IS ELASTIMOLD.

2.9. ALL TRANSFORMERS SHALL HAVE SCHWEITZER ENGINEERING LABORATORIES (SEL) 3 PHASE FAULT INDICATORS INSTALLED ON

2.10. SEE LIGHTING SCHEDULE FOR STREET LIGHT FIXTURE AND POLE SPECIFICATIONS.

B SIDE OF TRANSFORMER. - SHALL BE SEL 3BCRB0200IR. NOT APPLICABLE.

2.11. PROVIDE SERVICE ENTRANCE RATED PANEL BOARD WITH 100 AMP MAIN. 22 KAIR, WEATHER PROOF, SINGLE PHASE 120/240V RATED AND 100A SERVICE.

2.12A. PME 9 PAD-MOUNTED SWITCHGEAR SHALL BE ELBOW CONNECTED (DEADFRONT) AND SHALL HAVE TWO THREE-PHASE 600 AMP EXTERNALLY OPERATED THREE POLE SWITCHES AND TWO THREE-PHASE 200 AMP HOOKSTICK OPERATED FUSED TAPS. PROVIDE SMU-20 FUSE HOLDERS. THE CABINET SHALL BE ALL WELDED STAINLESS STEEL WITH STAINLESS STEEL HARDWARE AND SHALL HAVE ANTI-CONDENSATION ROOF UNDERCOATING. FINISH COLOR SHALL BE PAD-MOUNT GREEN ANSI-32 (MUNSELL NOTATION 7GY3.29/1.5), PROVIDE SEL 3BCRB0600IR FAULT INDICATORS ON 600 AMP CONDUCTORS. ALL BUSHING MUST BE PROVIDED. APPROVED MANUFACTURERS: S&C ELECTRIC CO. 65152R1-A14-F14 WITH 90362. PROVIDE 100E FUSES FOR 200 AMP POSITIONS.

2.12B. PME 11 PAD-MOUNTED SWITCHGEAR SHALL BE ELBOW CONNECTED (DEADFRONT) AND SHALL HAVE THREE THREE-PHASE 600 AMP EXTERNALLY OPERATED THREE POLE SWITCHES AND ONE THREE-PHASE 200 AMP HOOKSTICK OPERATED FUSED TAPS. PROVIDE SMU-20 FUSE HOLDERS. THE CABINET SHALL BE ALL WELDED STAINLESS STEEL WITH STAINLESS STEEL HARDWARE AND SHALL HAVE ANTI-CONDENSATION ROOF UNDERCOATING. FINISH COLOR SHALL BE PAD-MOUNT GREEN ANSI-32 (MUNSELL NOTATION 7GY3.29/1.5), PROVIDE SEL 3BCRB0600IR FAULT INDICATORS ON 600 AMP CONDUCTORS. ALL BUSHING MUST BE PROVIDED. APPROVED MANUFACTURERS: S&C ELECTRIC CO. 65162R1-A14-F14 WITH 90362. PROVIDE 100E FUSES FOR 200 AMP POSITIONS.

2.12C. PME9 AND PME 11 SWITCHES SHALL BE PLACED ON PRECAST BOX AND TOP. PRECAST BOX SHALL BE 5000 PSI CONCRETE MADE BY SOUTHERN PRECAST INC. CATALOG NUMBER SPSWB0016X6 WITH SPGRUPME911 TOP.

2.13 UNDERGROUND JUNCTION BOX "UJB" SHALL BE MADE OF CORRUGATED POLYESTER WALLS AND POLYMER CONCRETE COLLAR AND TOP. BASIS OF DESIGN CDR SYSTEM CORP. PA10-3038-30.

2.14 ALL HORIZONTAL DIRECTIONAL DRILLING(HDD) MATERIALS AND METHODS SHALL MEET THE REQUIREMENTS OF THE CURRENT SECTION 555 - HORIZONTAL BORE OF THE FDOT STANDARD SPECIFICATIONS. MATERIALS SHALL BE IN ACCORDANCE WITH ASTM D3350.

2.15. ALL DIRECTIONAL BORING PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) THAT MEETS ASTM D3350 WITH SDR 13.5 AND SHALL BE BLACK WITH THREE CONTINOUS RED STRIPES 120 DEGREES APART. APPROVED MANUFACTURERS: PETROFLEX, PERFORMANCE PIPE, CSR POLYPIPE, CARLON A16C9N1A3KA766.

2.16. TRANSITION COUPLINGS SHALL BE PROVIDED FOR HDPE PIPE TO SCHEDULE 40 PVC ELECTRICAL CONDUIT.

2.17. 1000 KCMIL SPLICE BOX "S.B." IS A BURIED CONCRETE BOX WITH OUTSIDE DIMENSIONS OF 88"X58"X3"6 DEEP WITH A 6" THICK CONCRETE LID.THE BOX AND LID ARE HS20 TRAFFIC RATED-32,000#/AXLE. BOX SHALL BE EQUIPPED WITH 2-6" BELL ADAPTERS ON EACH END AND TWO PULLING EYES ON EACH END. LID SHALL BE REINFORCED WITH #5 REBAR. PROVIDE SPLICE BOX FROM TRENWA INC.DRAWING 320182 AND PROVIDE LID FROM TRENWA INC, DRAWING 320187.

GENERAL NOTES:

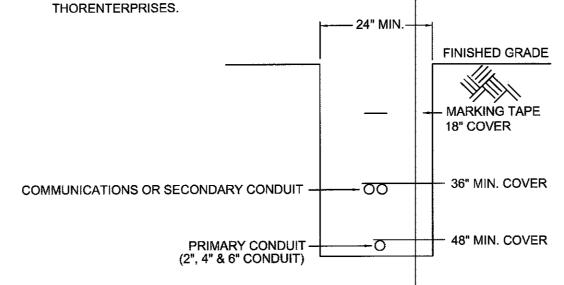
THE DRAWINGS ARE IN PART DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF THE WORK, INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF CONDUIT AND PADS OR BASES, AND THE LIKE. IT IS NOT INTENDED TO SHOW IN MINUTE DETAIL EVERY AND ALL ACCESSORIES REQUIRED AT EACH LOCATION FOR THE EXECUTION OF THE WORK, BUT IT IS INTENDED THAT ALL ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

EXAMINE ALL DRAWINGS FOR COORDINATION AND ALLOCATION OF SPACE AND AVOID INTERFERENCE WITH SURROUNDS. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PRACTICAL IN PERFORMING THE WORK. DISCREPANCIES BETWEEN THE ELECTRICAL CONDUIT SYSTEM AND WORK OF OTHER TRADES SHALL BE COORDINATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AND AS REQUIRED BY FIELD CONDITIONS.

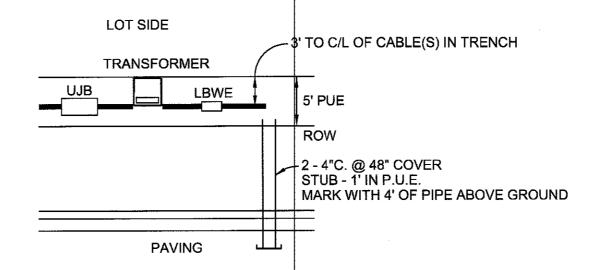
DISCREPANCIES DISCOVERED DURING THE BID PROCESS SHALL BE REFERRED TO THE ENGINEER PRIOR TO SUBMITTING A BID. THE ENGINEER WILL ISSUE INSTRUCTIONS BY ADDENDUM WHEN NECESSARY. INTERPRETATION OF THE DRAWINGS WILL BE BY THE ENGINEER.

CHANGES FROM THE DRAWINGS THAT ARE NECESSARY TO MAKE WORK CONFORM TO FIELD CONDITIONS, TO FIT WORK OF OTHER TRADES, OR TO RULES OF BODIES HAVING JURISDICTION, WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. IN CASE OF DISPUTE, THE ENGINEER WILL RENDER A DECISION ON HOW TO PRECEED.

WARNING TAPE SHALL BE RED WITH CONTINUOUS BLACK MARKINGS "CAUTION CAUTION - CITY OF ALACHUA - ELECTRIC LINE BURIED BELOW SHALL BE ALLENSYSTEM "MARKLINE" OR EQUAL REEFINDUSTRIES OR



TYPICAL CONDUIT TRENCH DETAIL NOT TO SCALE

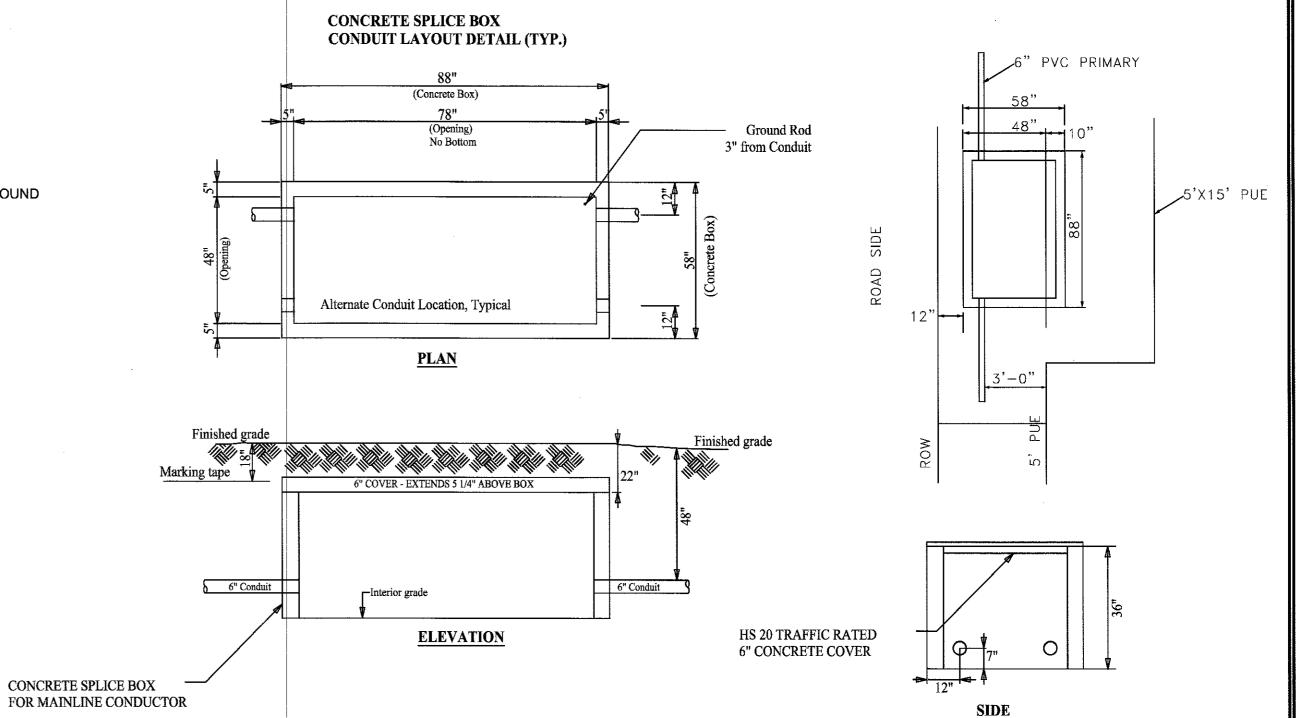


TYPICAL ELECTRIC UTILITY ALLOCATION

NOT TO SCALE

ELECTRICAL UTILITIES LEGEND

TRANSFORMER ON CONCRETE PAD, 25 KVA PHASE b, 120/240 VOLT SINGLE PHASE SECONDARY PRIMARY SWITCHGEAR PME9 OR PME11 ON CONCRETE BASE WITH TOP . _____ 1/0 P . ___ - _ 3-1/0 AL PRIMARY CABLE IN 4" PVC AT 48" MIN. COVER SINGLE PHASE 1/0 AL PRIMARY CABLE IN 2" PVC (UNLESS OTHERWISE SPECIFIED IN PLANS) AT 48" MIN. COVER "b" DENOTES B PHASE 6" DIR. BORE 6" HDPE DIRECTIONAL BORE UNDER PAVING, 48" MIN. COVER SECONDARY CONDUCTORS AT 36" MIN. CONDUCTOR SIZE AND QUANTITY 4/0TPX AS MARKED. CONDUIT FOR 4/0 IS 2 1/2" SECONDARY CONDUCTORS AT 36" MIN. CONDUCTOR SIZE AND QUANTITY AS MARKED, CONDUIT FOR #6 IS 1 1/4" SMALL BURIED WIRE ENCLOSURE, APPROXIMATELY10" DIA. X 19" DEEP. (TYPICALLY FOR STREETLIGHTING FEEDS - INCLUDED BUT NOT SHOWN ON ALL LIGHTS) LARGE BURIED WIRE ENCLOSURE, APPROXIMATELY 30" X 17"X16" DEEP. TYPICALLY FOR LARGER SECONDARY CONNECTIONS E.G. 4/0 TPX. LBWE UD JUNCTION BOX 30" X 48" X 30" DEEP - FOR 1/0 PRIMARY CONNECTIONS. UJB PRIMARY SECTIONALIZING CABINET ON FIBERGLASS BASE - FOR 1/0 PRIMARY VOLTAGE LOOP - WILL BE SOURCE FOR COMMERCIAL LOT TRANSFORMERS. ELECTRIC UTILITY METER SOCKET AND ELECTRICAL 100A PANEL & SERVICE- PROVIDE M FOR SIGN. PROVIDE SERVICE CONDUCTORS TO LBWE. SPLICE BOX 88" X 58" X 36" DEEP (NOMINAL DIMENSIONS) S.B. CONCRETE WITH TRAFFIC RATED TOP. BURIED WITH 22"OF COVER. USED TO SPLICE 1000 KCMIL CABLES. CAP STUBS AND MARK WITH 4' STICK OF CONDUIT --:



SEE SHEET E8 FOR LIGHTING LEGEND FOR "A", "AL", "B" AND "C" DESCRIPTION AND SPECS.

1000 MCM SPLICE BOX DETAILS - "S.B."

NOT TO SCALE

APPROVED

REVISIONS

WTS

SHEET TITLI

FILE NO. 01/23/17

SHEET

MOUNT ON CONC. POST #4 CU TO GROUND ROD. — TO LARGE BURIED WIRE ENCLOSURE 3/4" X 20'-0" MINIMUM COPPER CLAD GROUND ROD, 15 OHMS MAXIMUM RESISTANCE. ELECTRICAL DISTRIBUTION ONE LINE DIAGRAM NOT TO SCALE

AT ALACHUA COMMERCE ELECTRIC UTILITY SYSTEM



FILE NO.

LIGHTING LEGEND AND SPECIFICATIONS

FUTURE PEDESTRIAN LIGHT (BY CITY OF ALACHUA), PROVIDE SBWE WHERE NOT ADJACENT TO A LBWE. INSTALL SMALL BURIED WIRE ENCLOSURE.

150 WATT HPS TYPE III DISTRIBUTION, UTILITY GRADE, OAK LEAF PATTERN, ACORN STYLE LUMINAIRE WITH GLASS REFRACTOR, ON 13' (ABOVE GROUND) CONCRETE POLE WITH 10" BURIED WIRE ENCLOSURE (SBWE) AT BASE OF POLE, LOCATE 5' BACK OF CURB TO BACK OF POLE OR 6" FROM SIDEWALK (SEE PLAN). LUMINAIRE SHALL HAVE A INTEGRAL PHOTOCELL. LUMINAIRE - HOLOPHANE GRANVILLE GVLU-15AHP-12-B-3-N-N-U-H POLE -AMERON POLE PRODUCTS VEF-4.0. NOTE: 120V BALLAST.

150 WATT HPS TYPE III DISTRIBUTION, UTILITY GRADE, OAK LEAF PATTERN, ACORN STYLE LUMINAIRE WITH GLASS REFRACTOR, ON 13' (ABOVE GROUND) CONCRETE POLE WITH LARGE BURIED WIRE ENCLOSURE (LBWE) AT BASE OF POLE, LOCATE 5' BACK OF CURB TO BACK OF POLE OR 6" FROM SIDEWALK (SEE PLAN). LUMINAIRE SHALL HAVE A INTEGRAL PHOTOCELL. LUMINAIRE - HOLOPHANE GRANVILLE GVLU-15AHP-12-B-3-N-N-U-H POLE -AMERON POLE PRODUCTS VEF-4.0. NOTE: 120V BALLAST.

139W TYPE III MED LED CUTOFF (250 HPS CLASS) ON 10' ARM, 35' TYPE I CONCRETE POLE (POLE 6" FROM S/W TYP.) INCLUDE SBWE UNLESS NOTED. PROVIDE: -LUMINARE CREE (BXSPC HT 3ME F40K UL SV N-Q9) WITH (XA-XSP4TMNT) SLIP

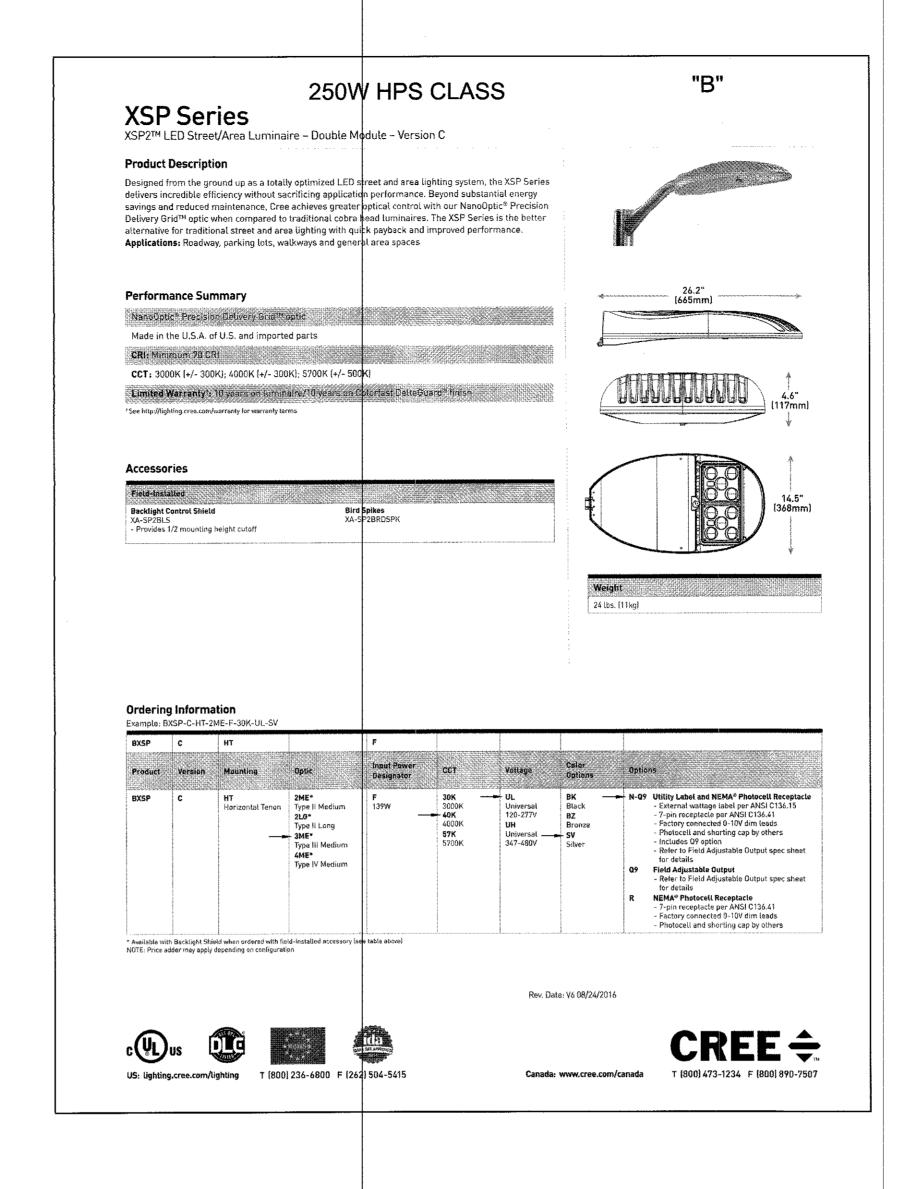
FITTER OR GE EQUIVALENT -10' BRACKET: CURLEY MACHINERY COMPANY C20011439TWFL

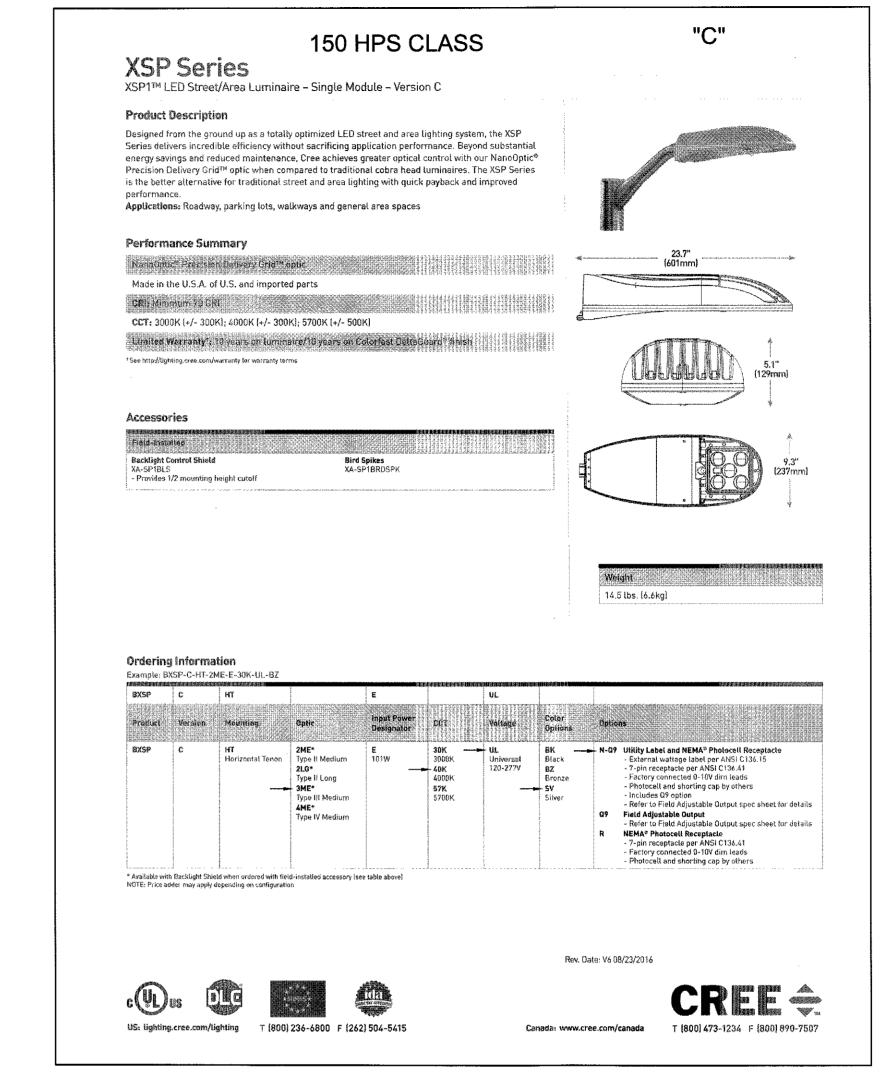
-35' TYPE I CONCRETE POLE, PRE-DRILLED, 1" I.D. P VC CONDUIT FROM 2' TOP OF POLE TO HANDHOLE 4'-6". BOTTOM OF POLE - MANUFACTURER ACCORD INDUSTRIES OR DURA-STRESS

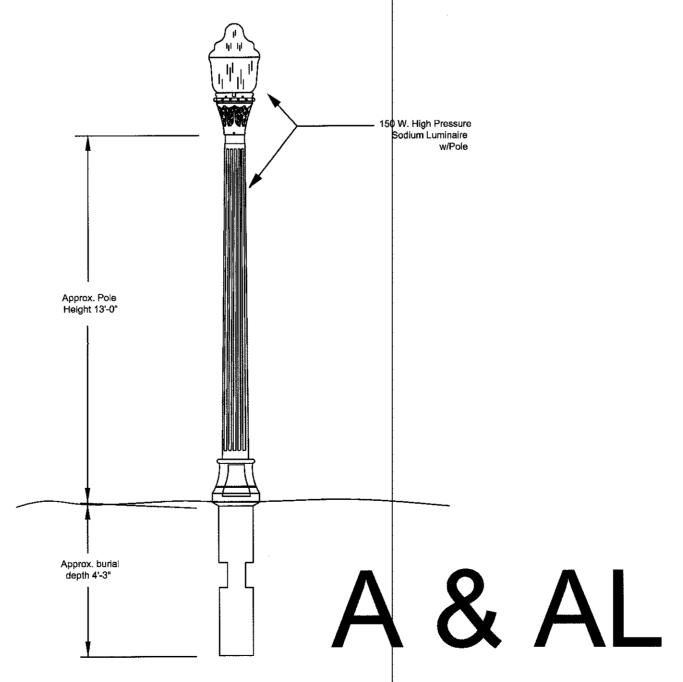
101W TYPE III MED LED CUTOFF (150 HPS CLASS) ON 10' ARM, 35' TYPE I CONCRETE POLE (POLE 6" FROM S/W TYP.) INCLUDE SBWE UNLESS NOTED. PROVIDE: -LUMINARE CREE (BXS C HT 3ME E 40K UL SV N-Q9) WITH (XA-XSP4TMNT) SLIP

FITTER OR GE EQUIVALENT (ERS 10J2E 15402 GRAY GLR) -10' BRACKET: CURLEY MACHINERY COMPANY C20011439TWFL -35' TYPE I CONCRETE POLE, PRE-DRILLED, 1" I.D. P VC CONDUIT FROM 2' TOP OF POLE TO HANDHOLE 4'-6". BOTTOM OF POLE - MANUFACTURER ACCORD INDUSTRIES OR DURA-STRESS

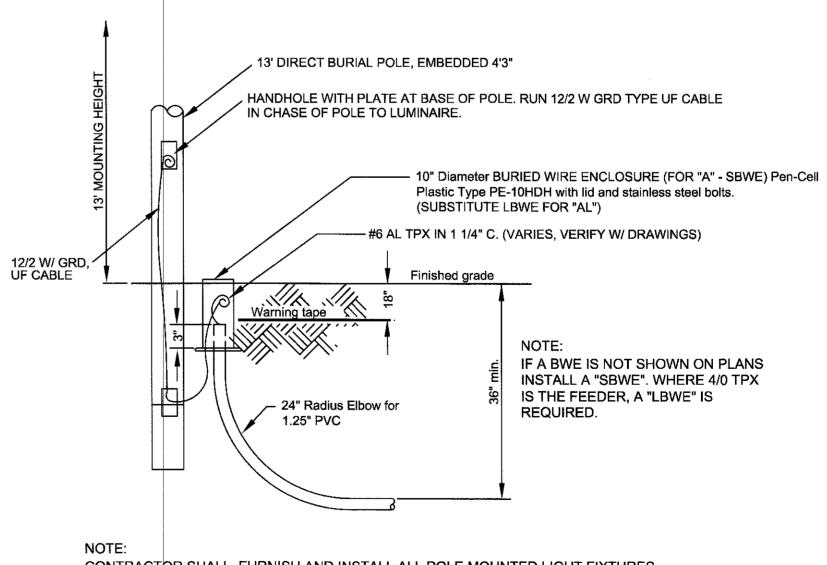
NOTE: ALTERNATE HOT LEG USED TO CONNECT LUMINAIRES.











CONTRACTOR SHALL FURNISH AND INSTALL ALL POLE MOUNTED LIGHT FIXTURES, POLES. AND BURIED WIRE ENCLOSURES (BWE) AT ALL POLE LOCATIONS.

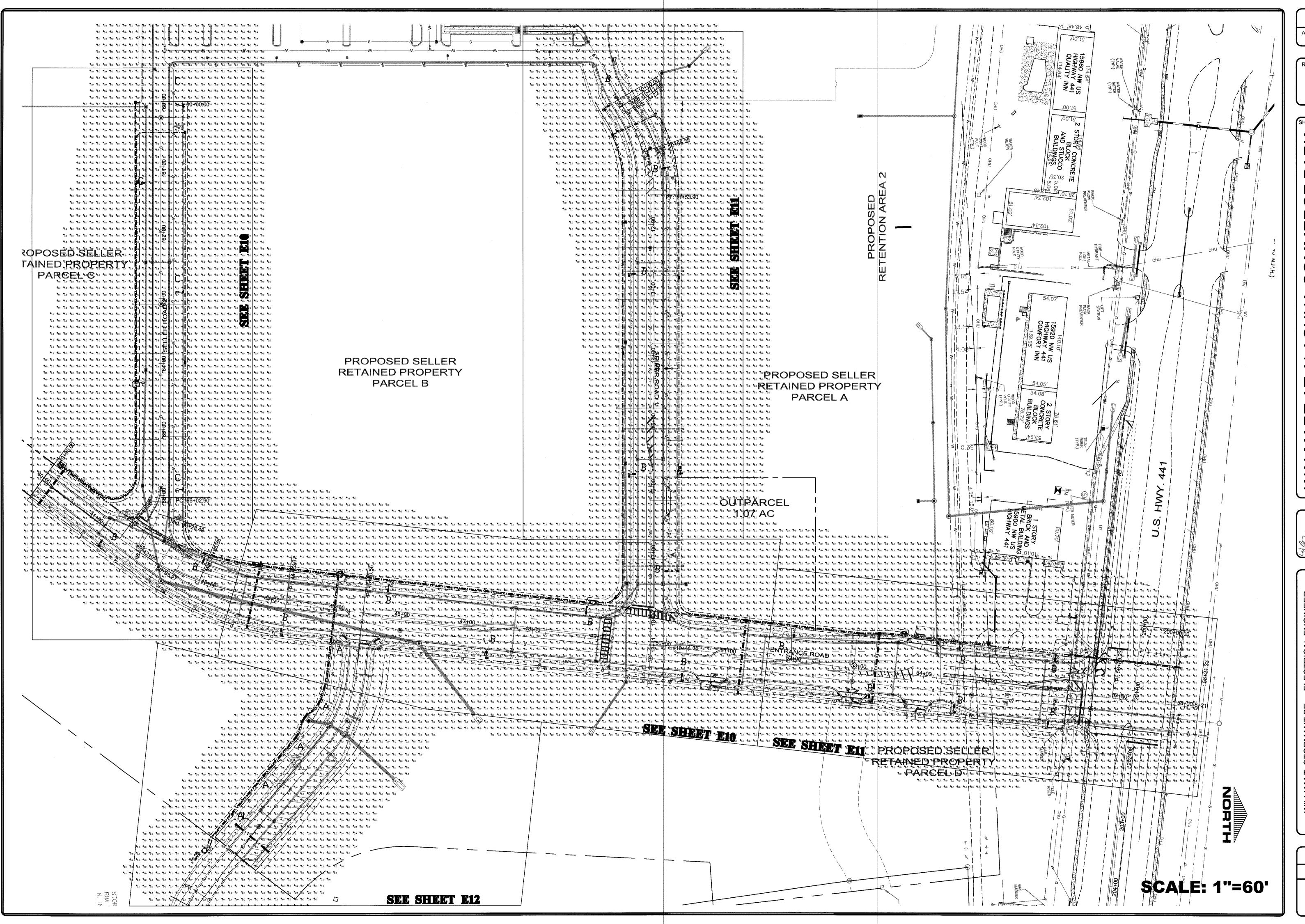
TYPE "A" & "AL" UTILITY STREETLIGHT DETAIL (TYP.) NOT TO SCALE

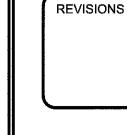
DRAWN **APPROVED**

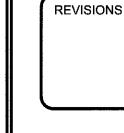
REVISIONS

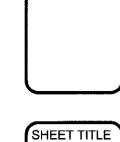
SHEET TITLE

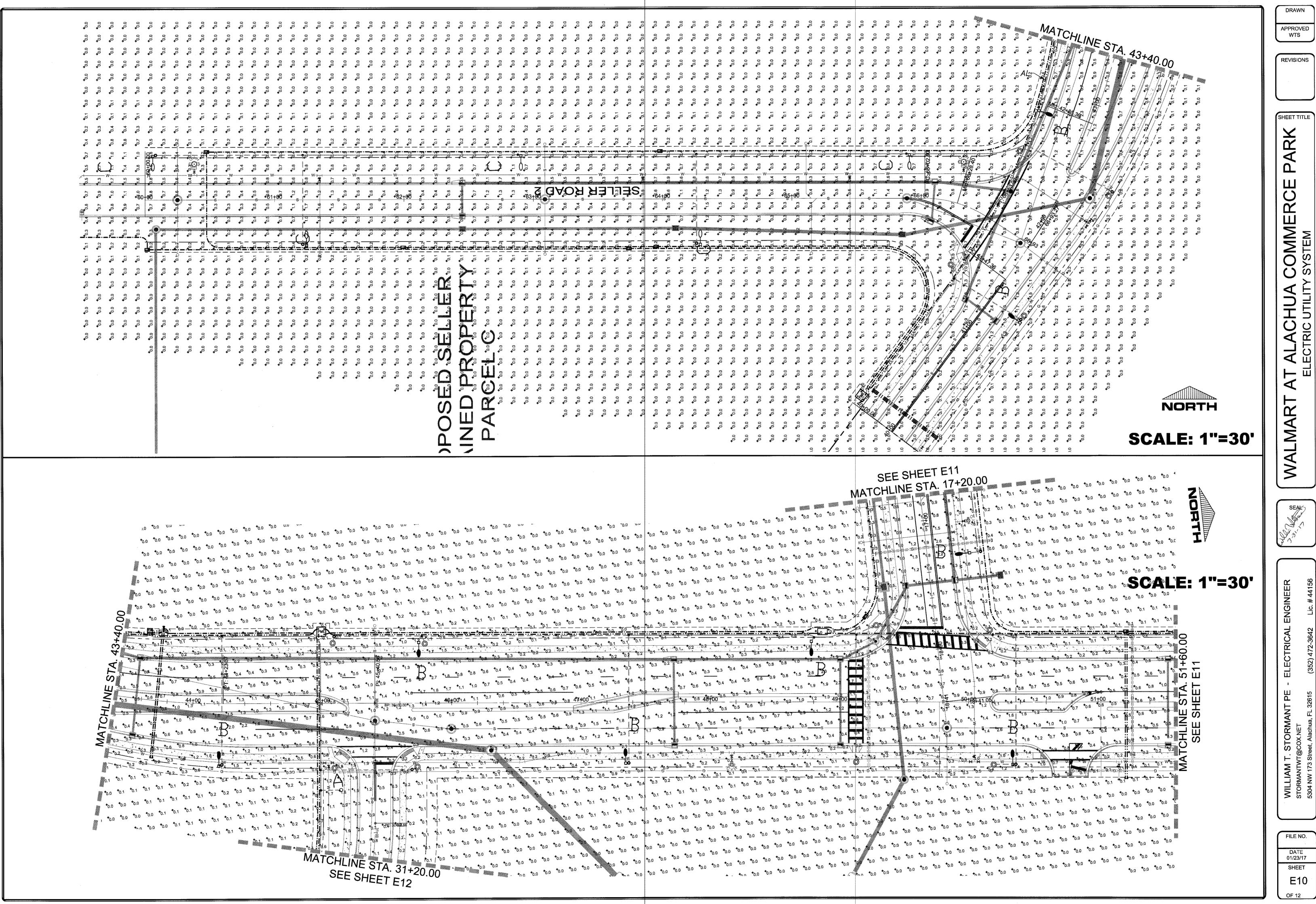
FILE NO. 01/23/17 SHEET





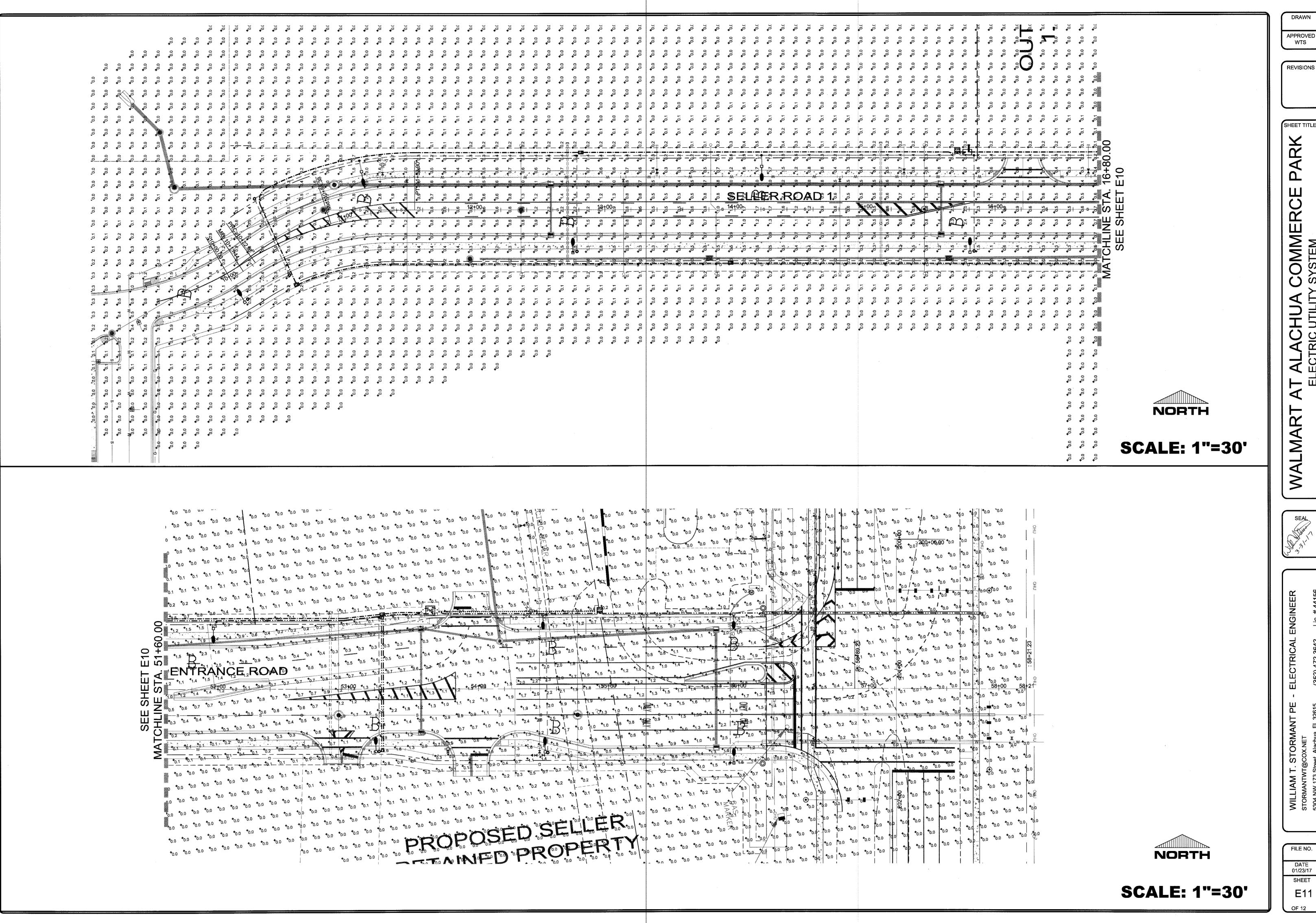






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FILE NO. DATE 01/23/17 E10



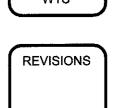
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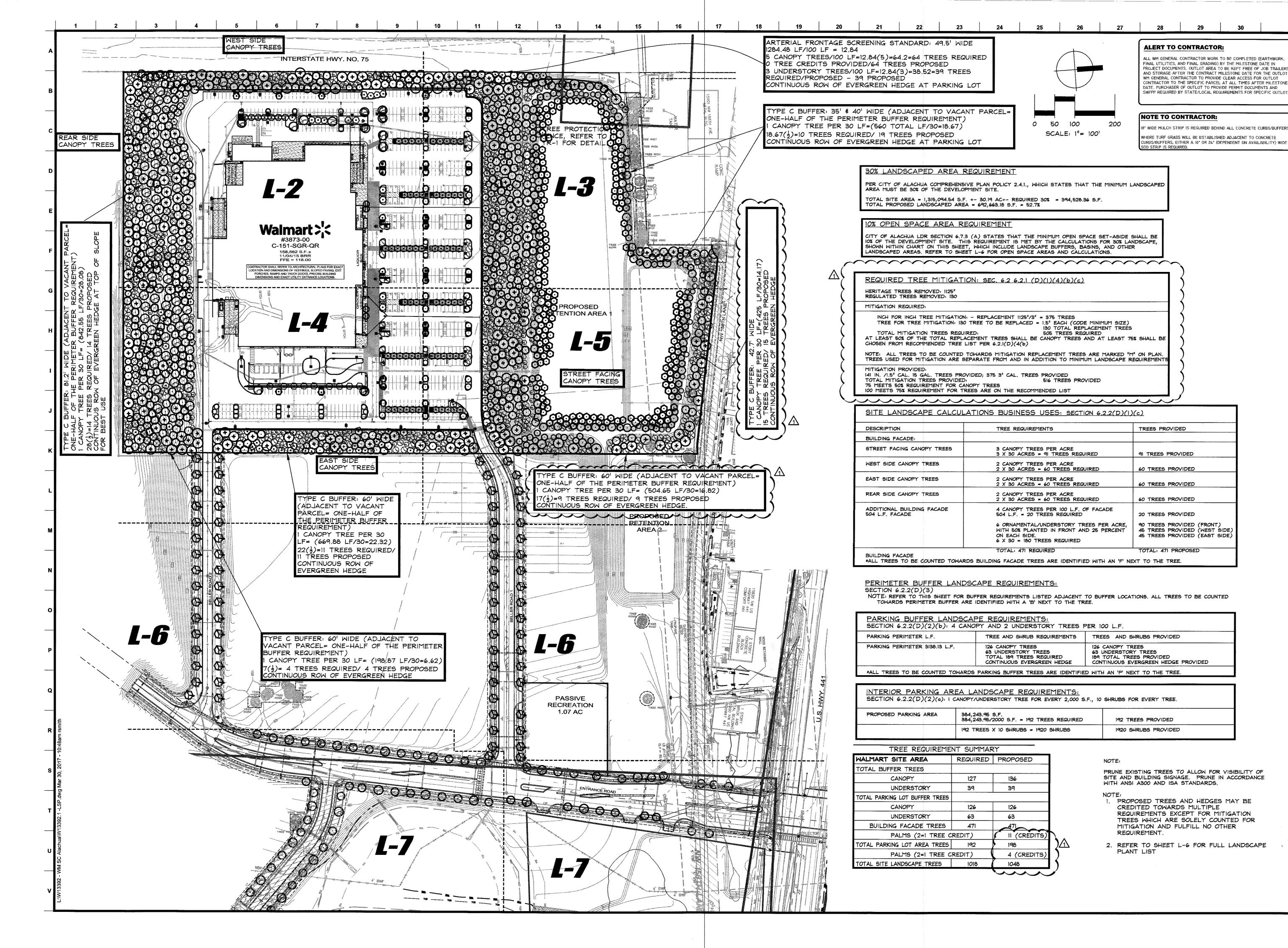
FILE NO. DATE 01/23/17 E11



PARK

WALMART

DATE 01/23/17



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Designed by:	JKW	∇			
Drawn by:	ARS	abla			
Checked by:	MDS	∇			
Approved by:	JKW	\forall			
Scale:	1"=100"	abla			
Date:	5/16	\triangledown			
Job No.: W1	W13392.1	\forall	A 02-10-17	Revised Per City Comments	JKW
© 2017		No.	Date	Revision	By

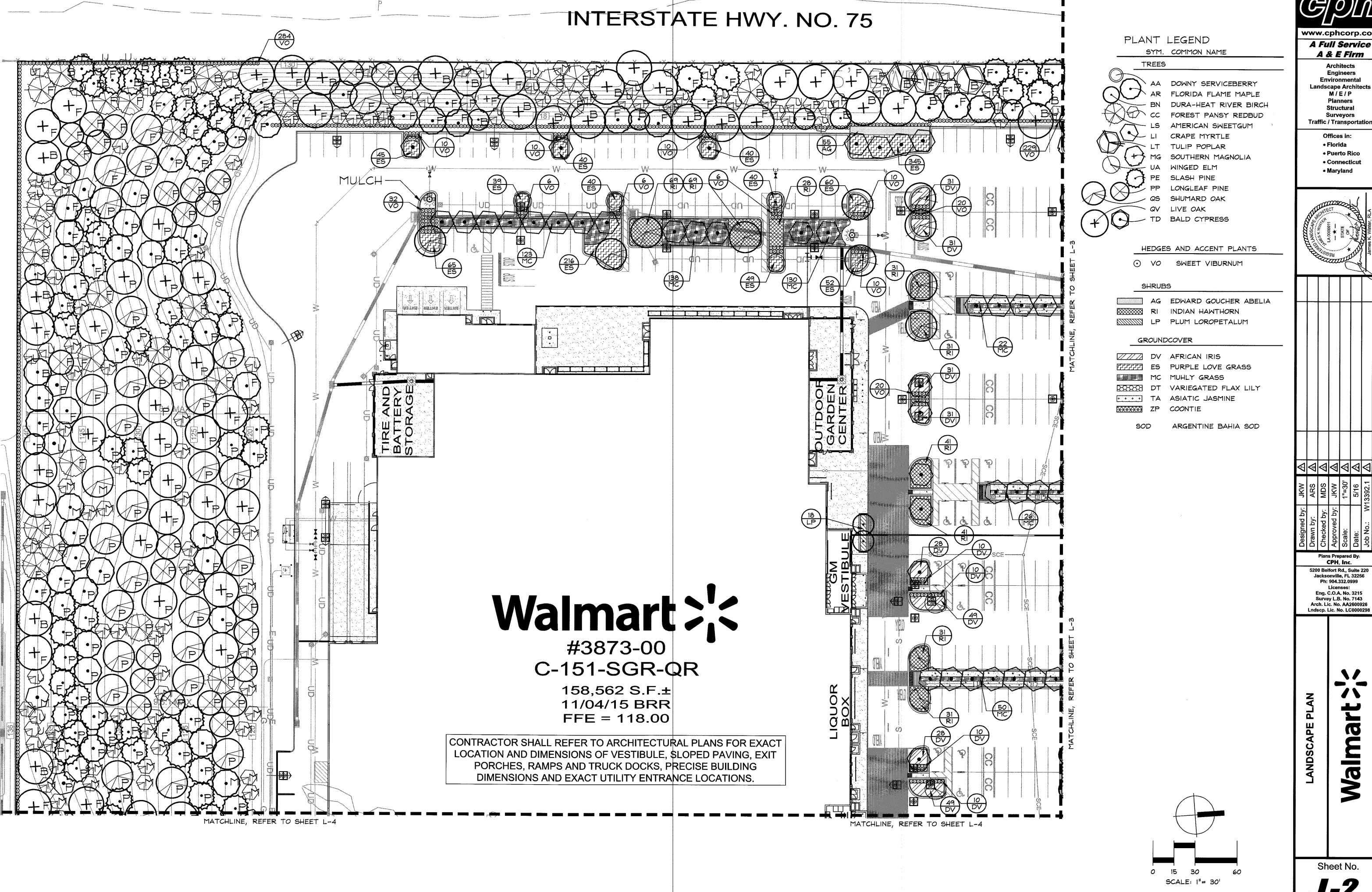
Plans Prepared By CPH, Inc.

5200 Belfort Rd., Suite 220 Jacksonville, FL 32256 Ph: 904.332.0999 Eng. C.O.A. No. 3215 Survey L.B. No. 7143

Arch. Lic. No. AA2600926 Lndscp. Lic. No. LC0000298

Sheet No.

L-1



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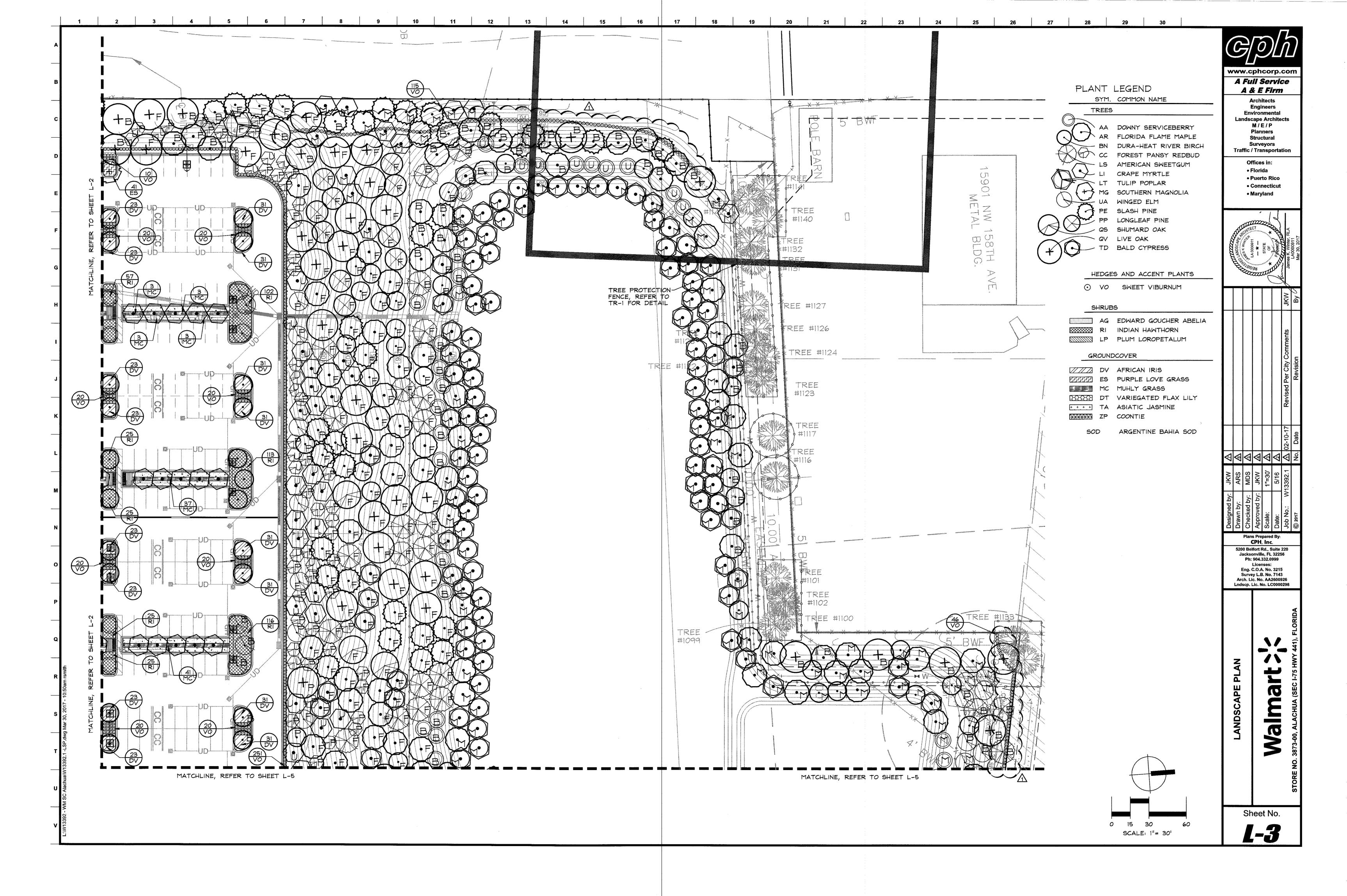
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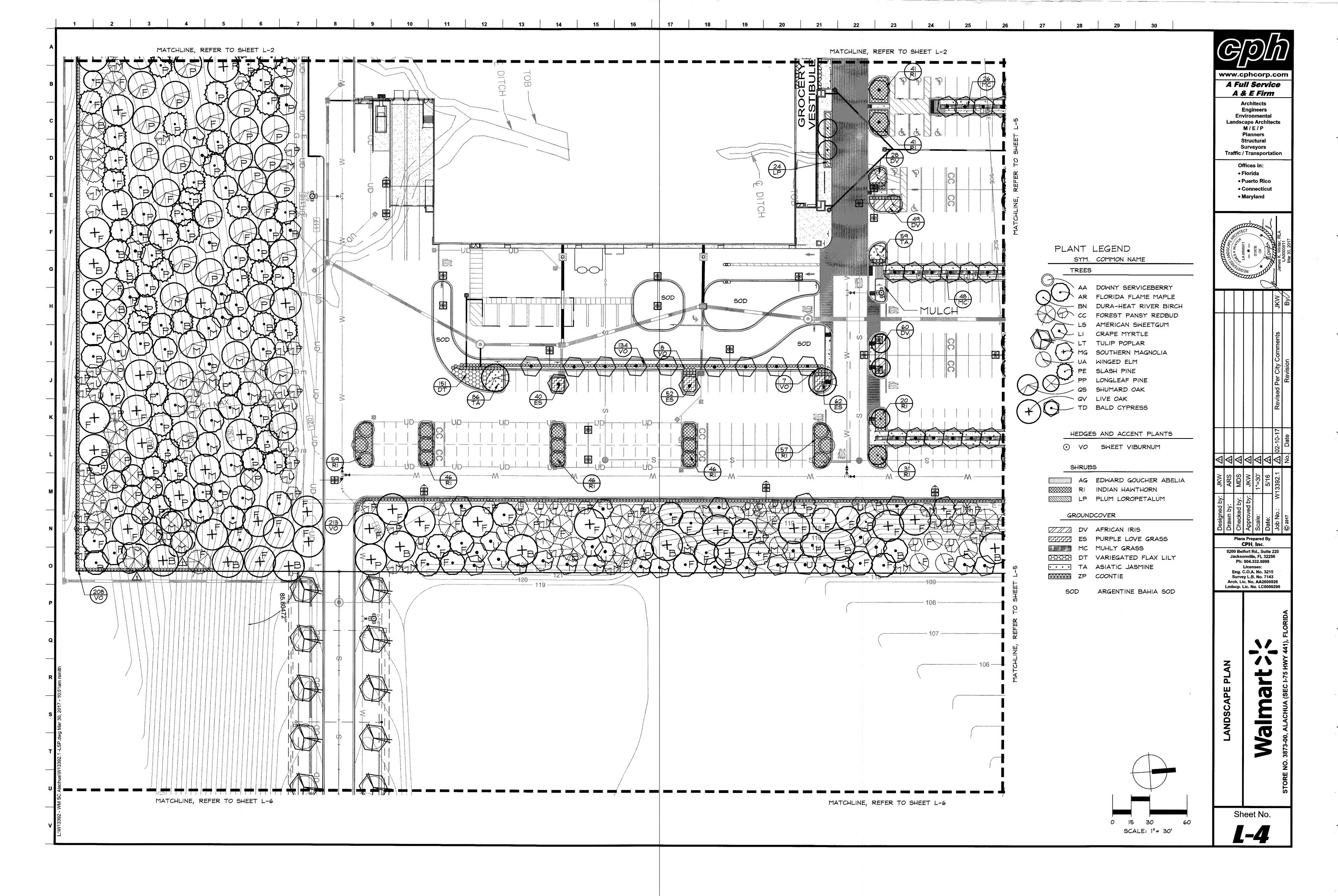
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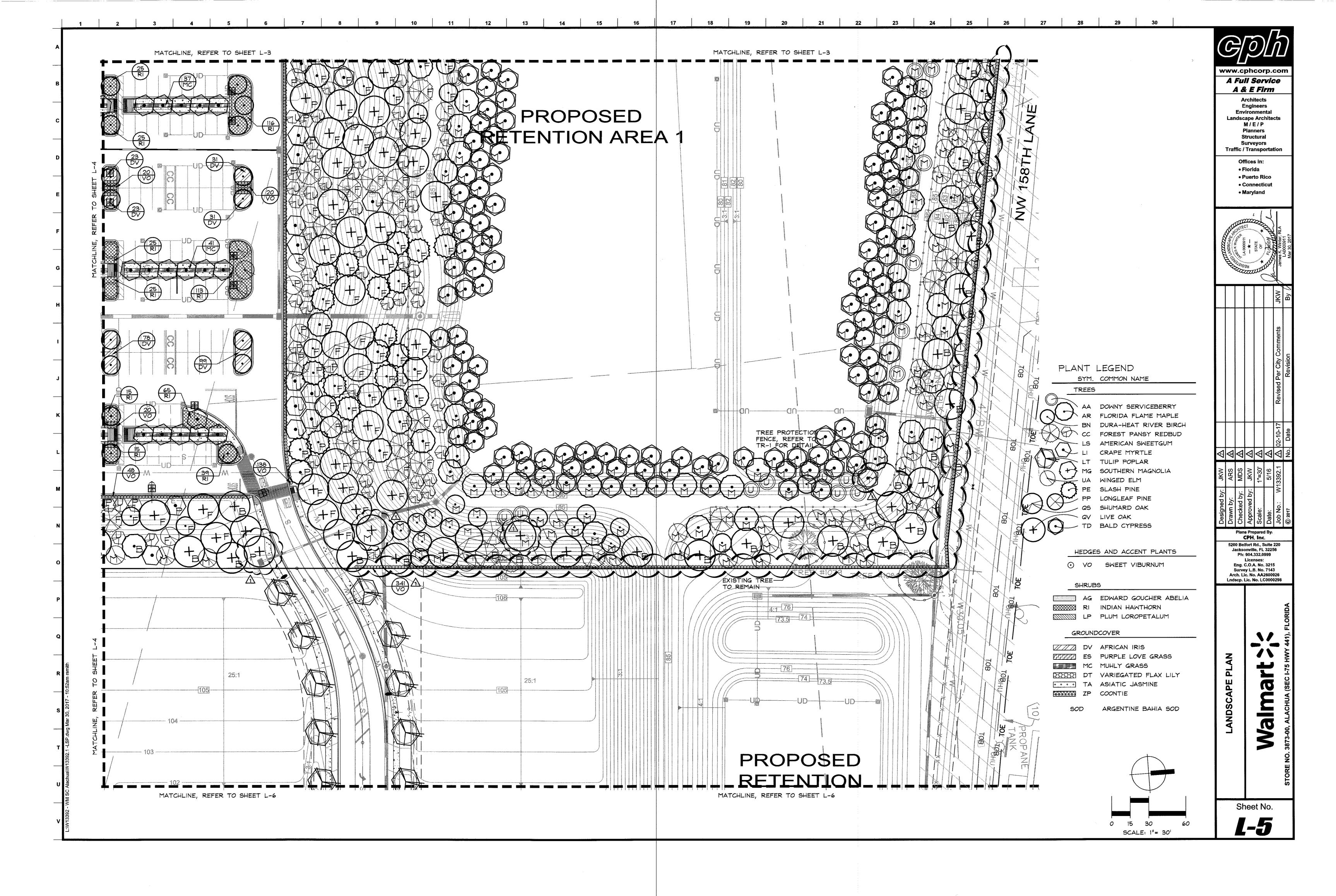
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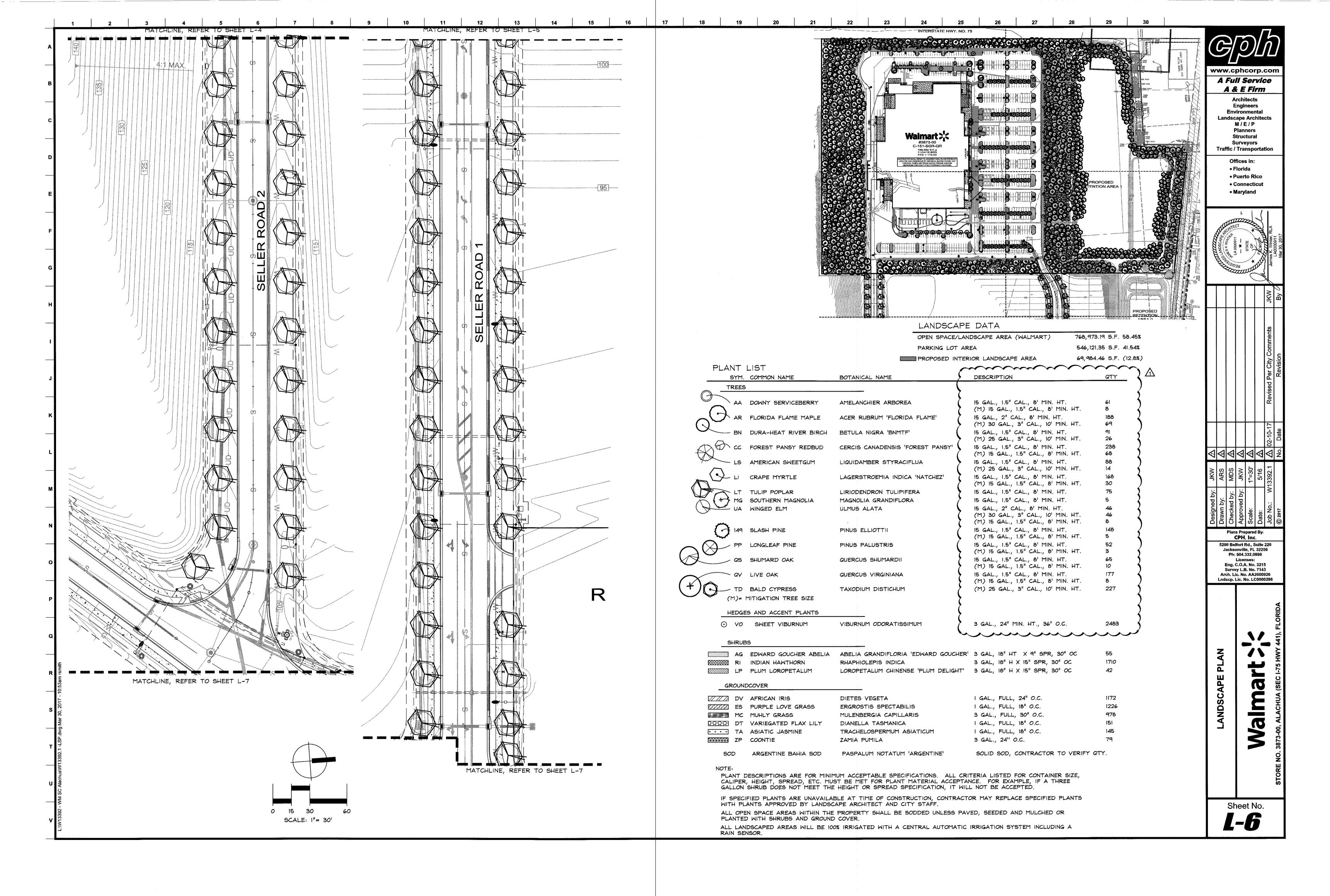
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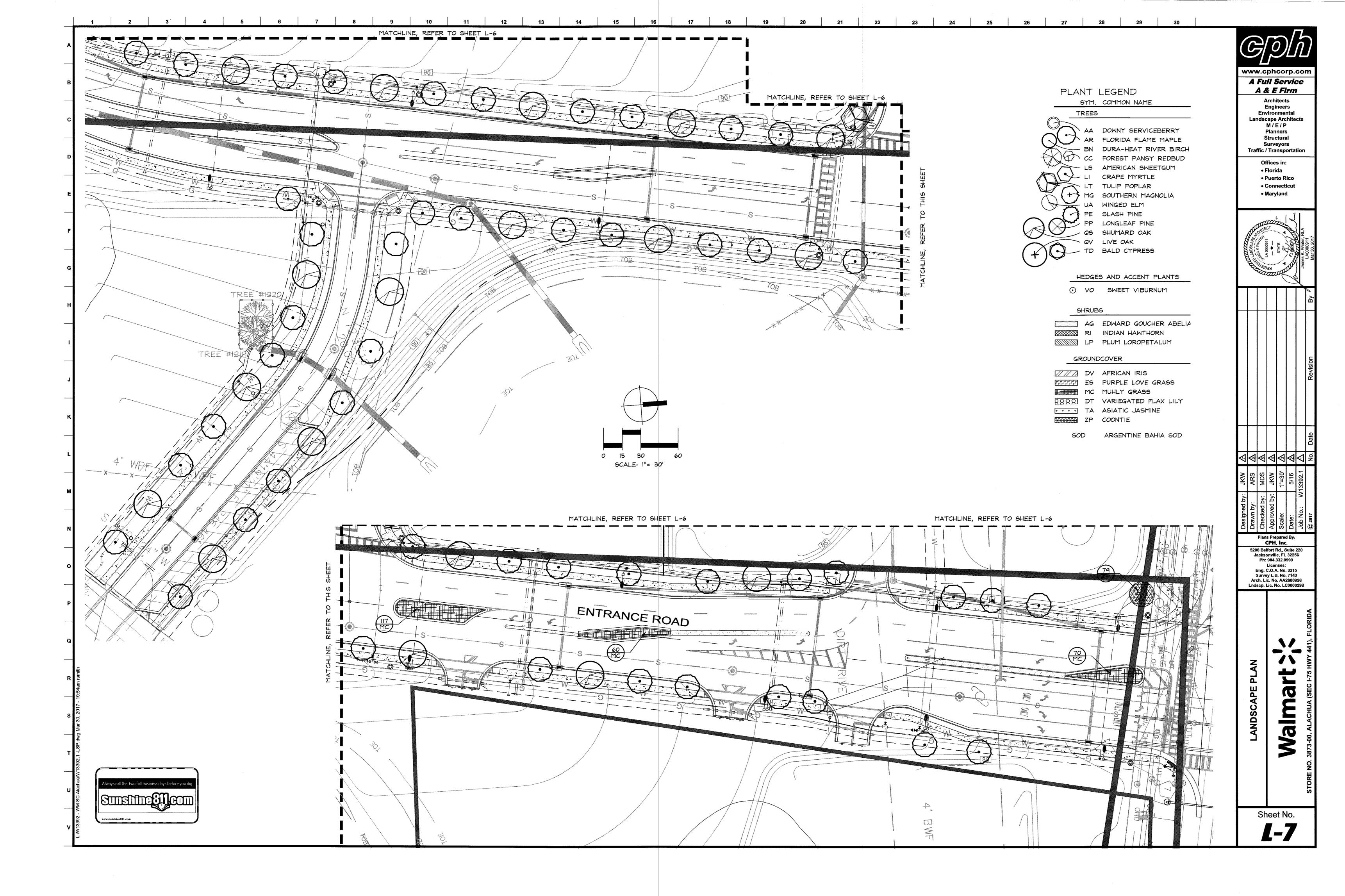
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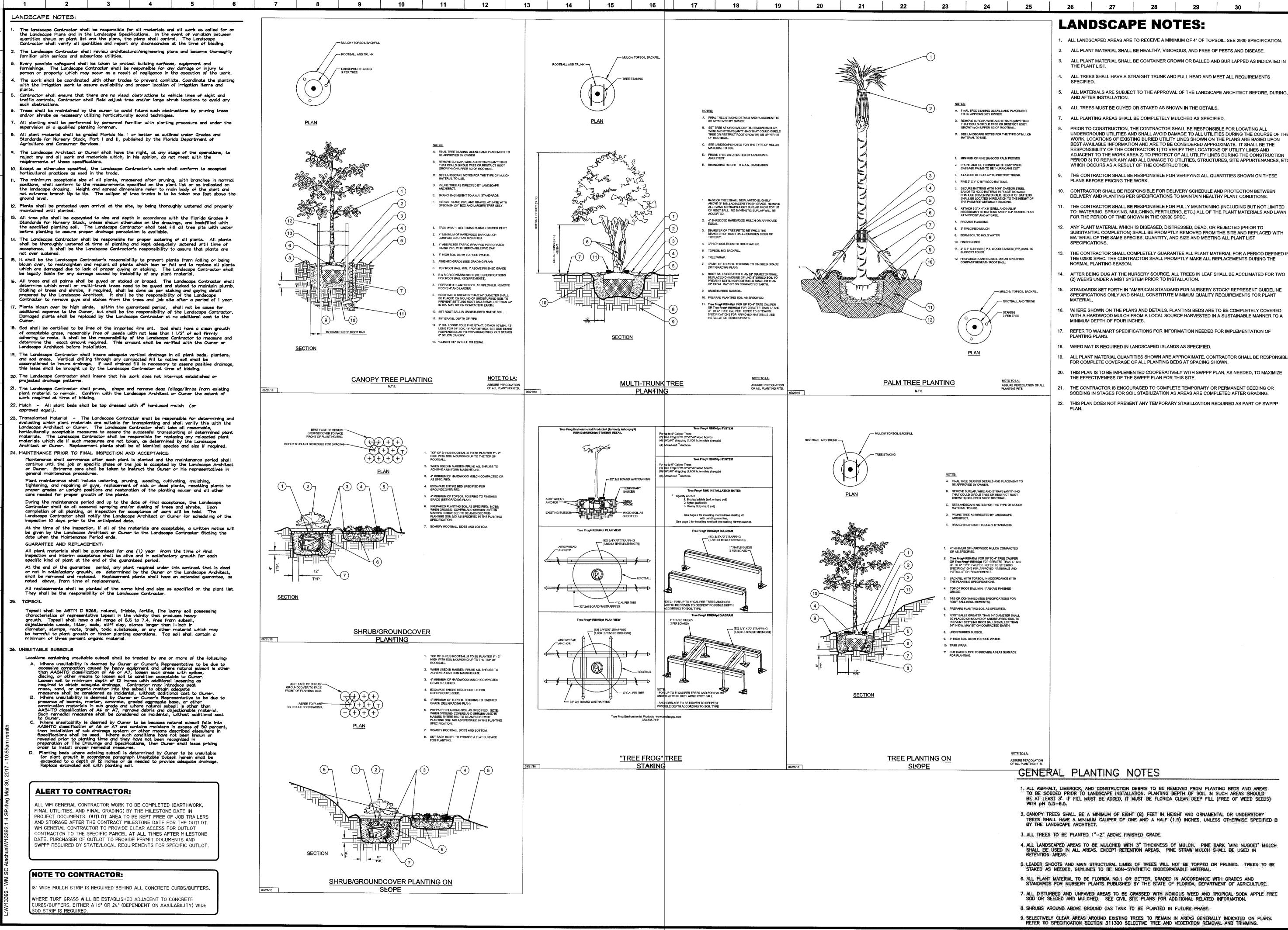












1. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL, SEE 2900 SPECIFICATION,

2. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.

3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BUR LAPPED AS INDICATED IN

ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS

ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING,

6. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK, LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE

CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN

12. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST

THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD DEFINED IN THE 02900 SPEC, THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE

15. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE

16. WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH A HARDWOOD MULCH FROM A LOCAL SOURCE HARVESTED IN A SUSTAINABLE MANNER TO A

17. REFER TO WALMART SPECIFICATIONS FOR INFORMATION NEEDED FOR IMPLEMENTATION OF

19. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.

20. THIS PLAN IS TO BE IMPLEMENTED COOPERATIVELY WITH SWPPP PLAN, AS NEEDED, TO MAXIMIZE

THE CONTRACTOR IS ENCOURAGED TO COMPLETE TEMPORARY OR PERMANENT SEEDING OR SODDING IN STAGES FOR SOIL STABILIZATION AS AREAS ARE COMPLETED AFTER GRADING.

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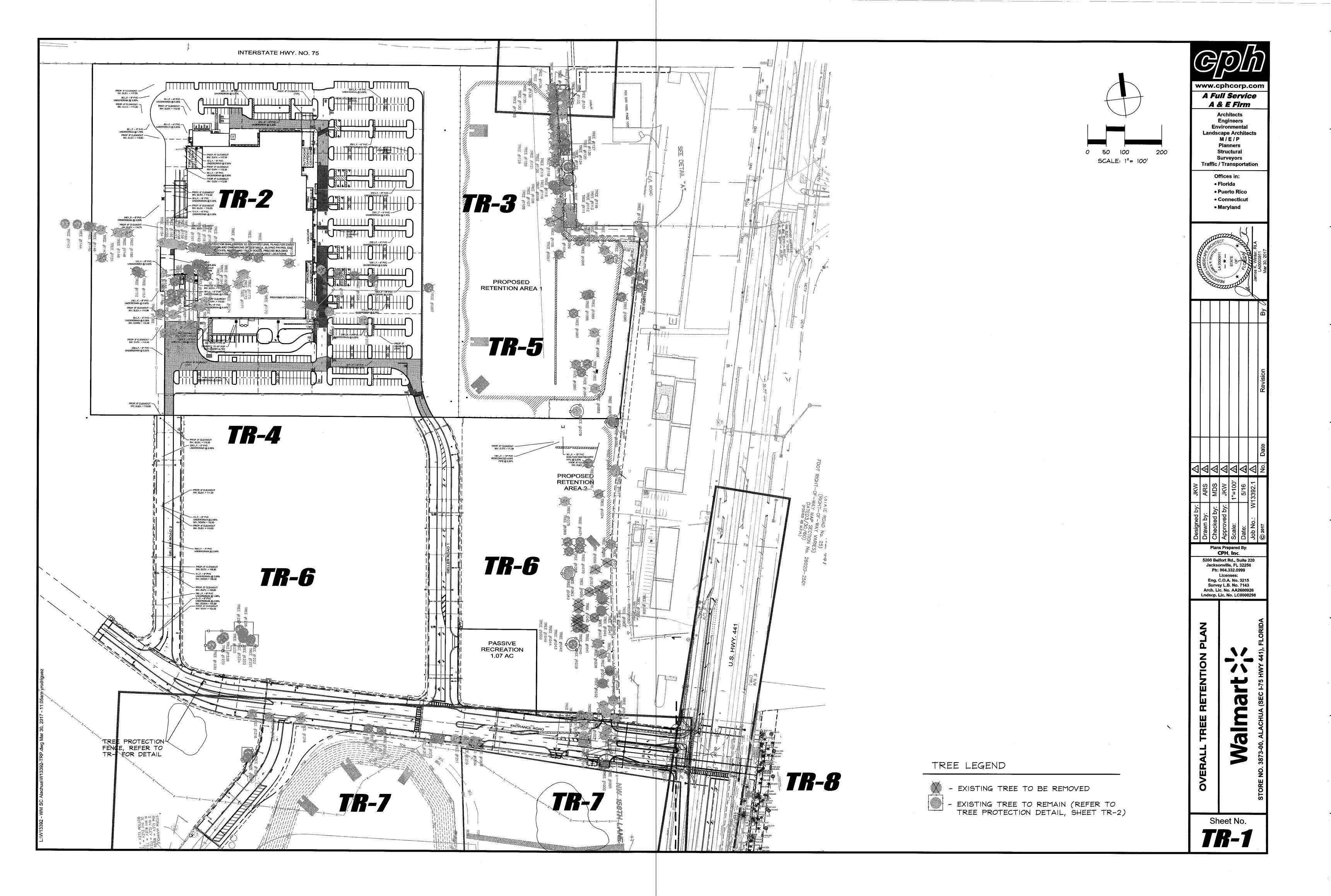
Traffic / Transportation Offices in: • Florida

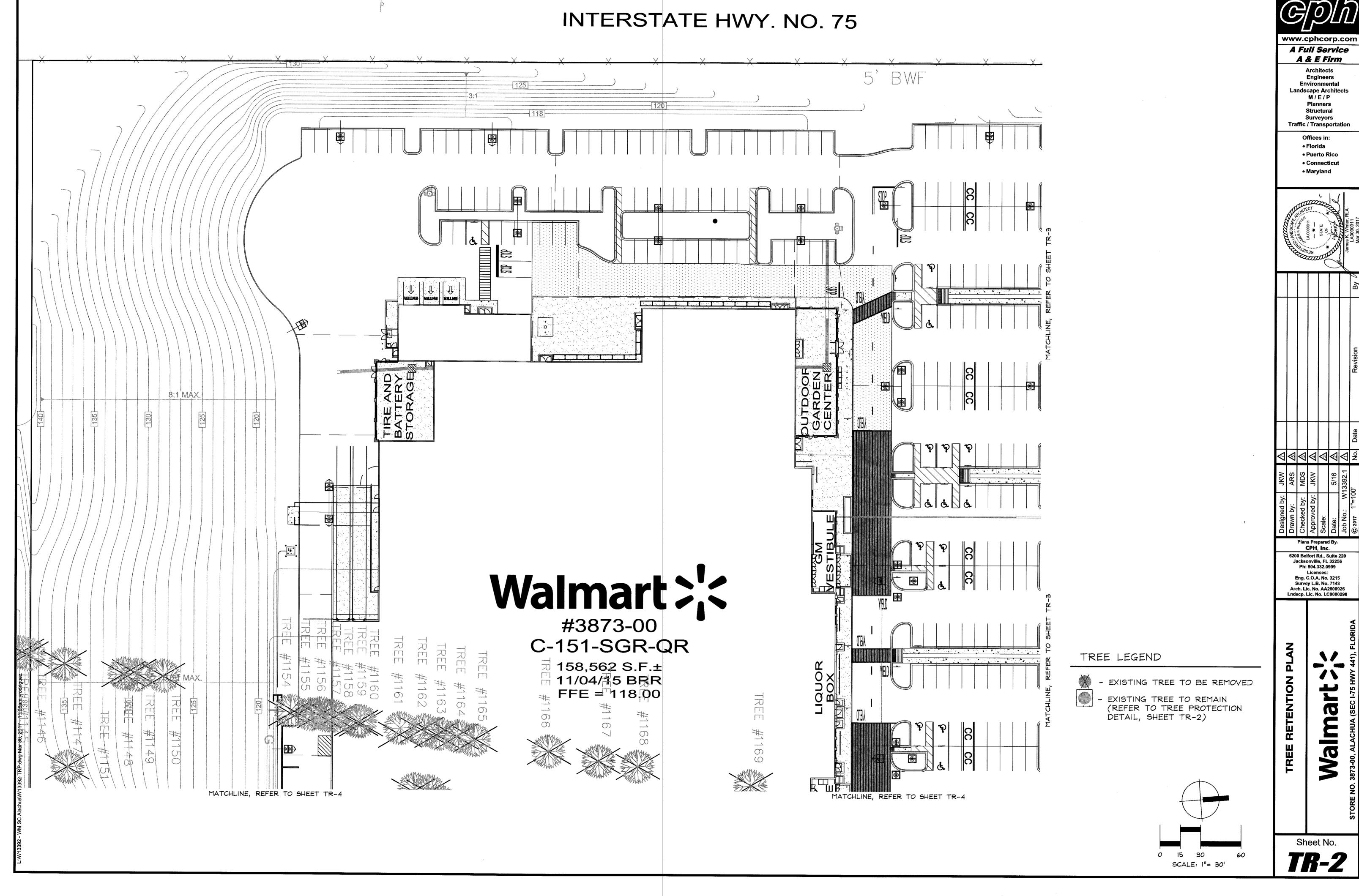
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Plans Prepared By:

5200 Belfort Rd., Suite 220 Jacksonville, FL 32256 Ph: 904.332.0999 Eng. C.O.A. No. 3215 Survey L.B. No. 7143 Arch. Lic. No. AA2600926

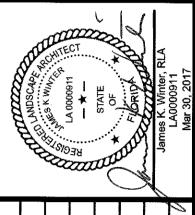
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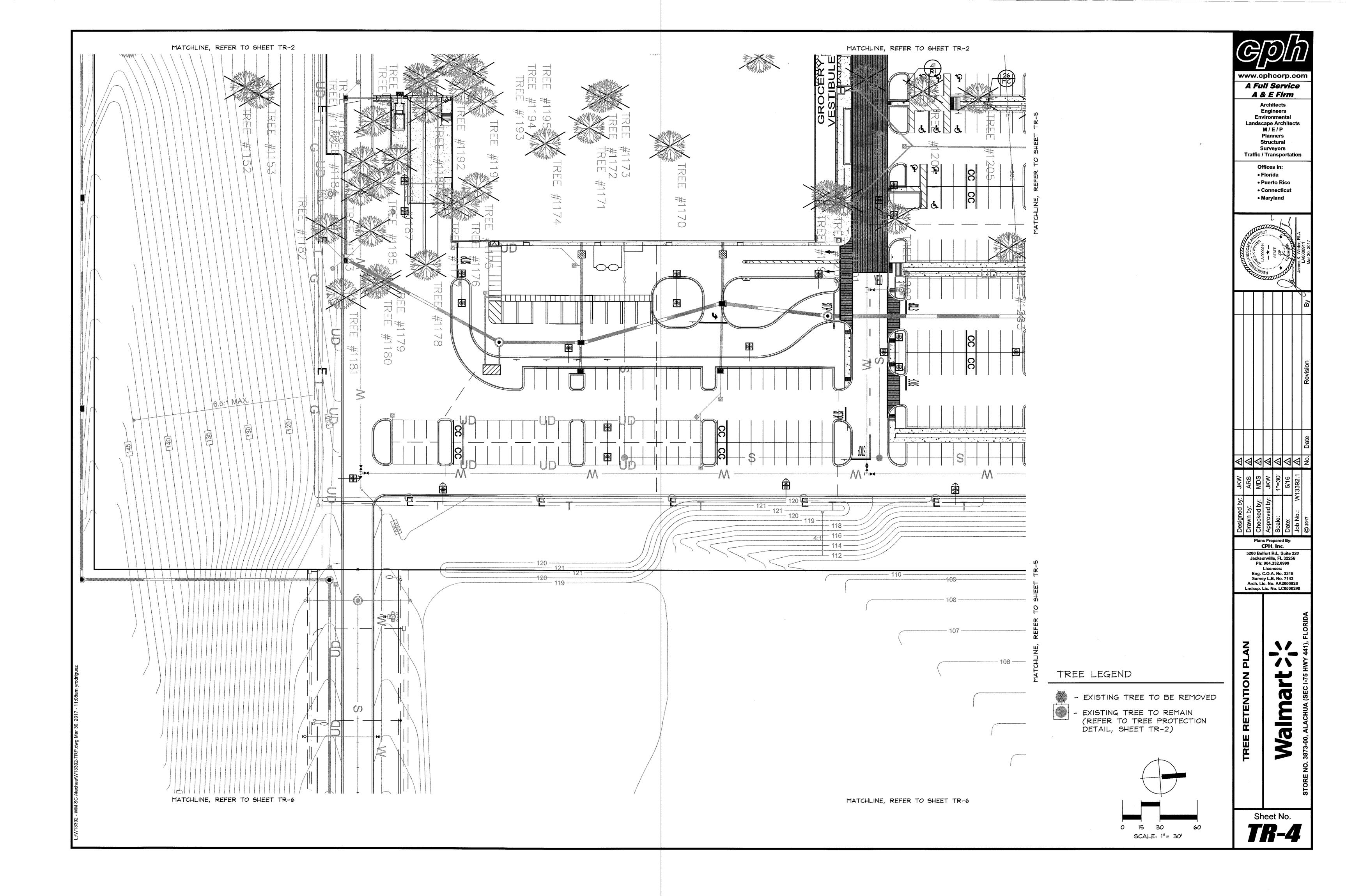
Landscape Architects

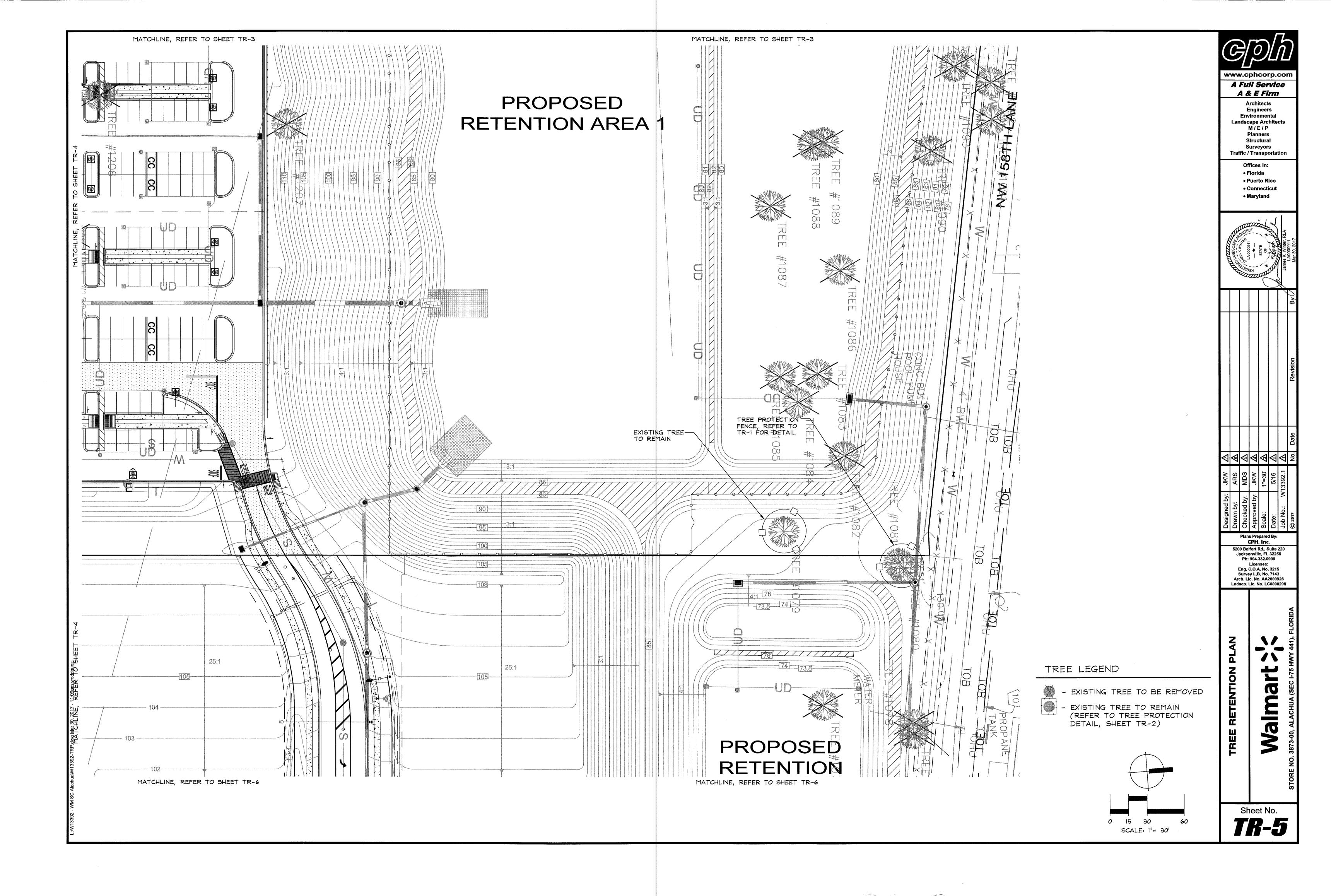


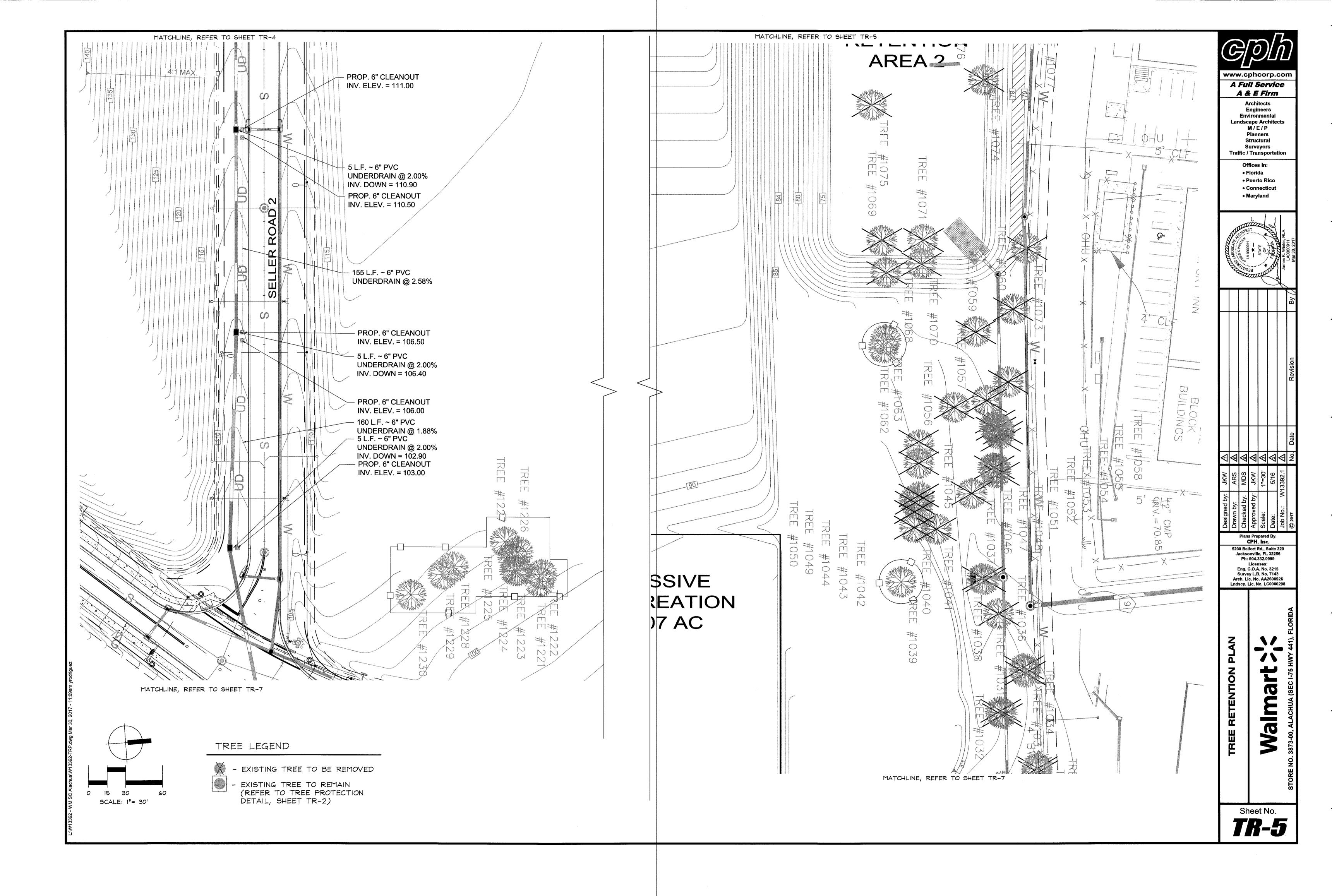
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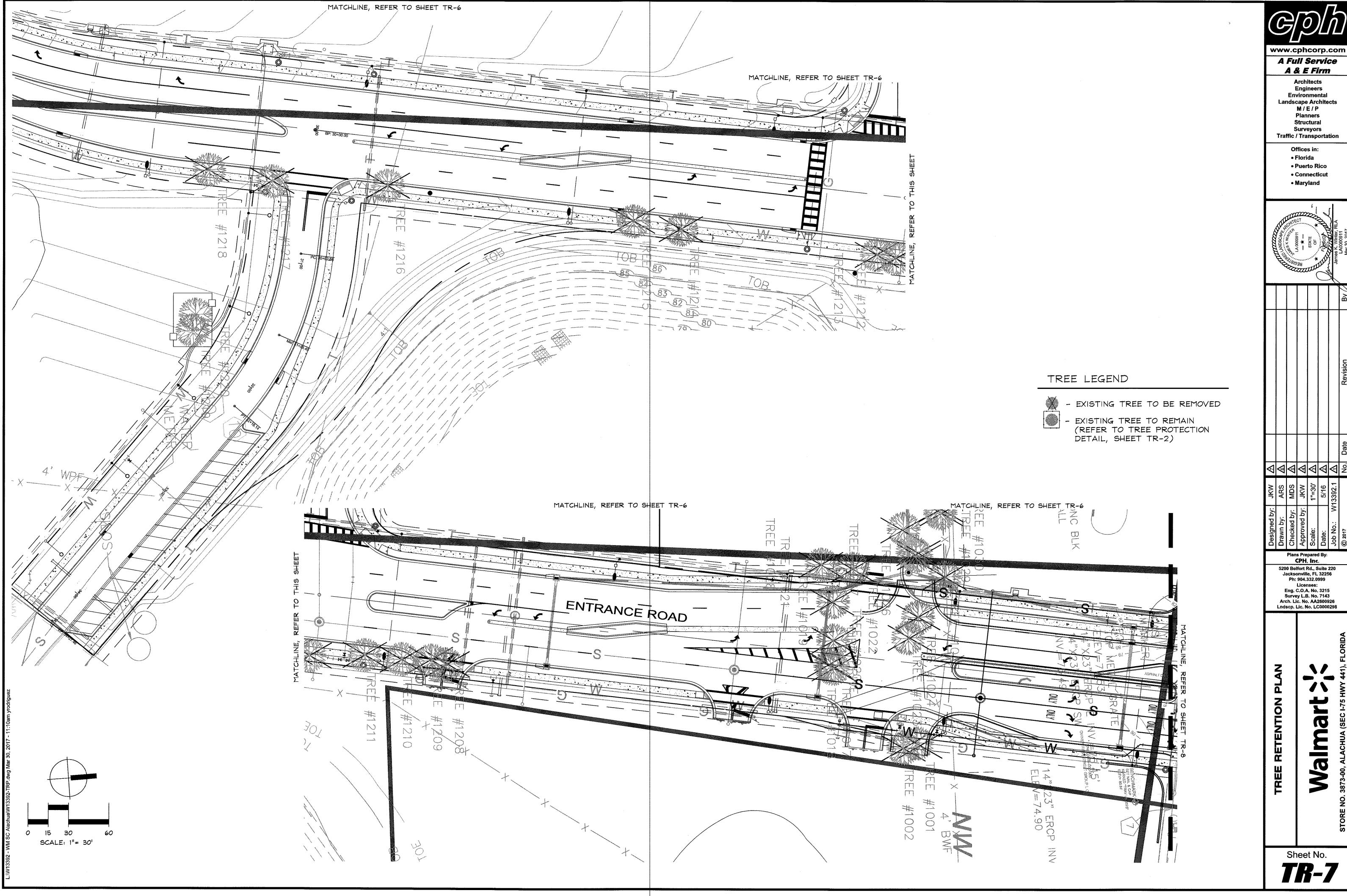
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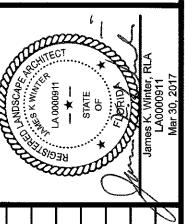




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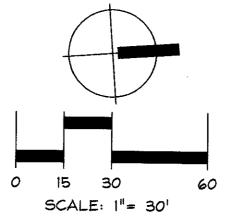


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Walmi





TREE LEGEND

- EXISTING TREE TO BE REMOVED

- EXISTING TREE TO REMAIN (REFER TO TREE PROTECTION DETAIL, SHEET TR-2)

	TREE SURVEY DATA	ASHEET	
Date: 2/10/15 & 3/2/15	Project #: W13392	Project Name:	Walmart - Alachua
Field Personnel: David Landers			7,100,100

Tree #	D.B.H.	Tree Name	Scientific Name	Tree Condition	Removed/Saved
1300	12,10	Laurel Oak	Quercus laurifolia	Fair	Saved
1301	9,8	Cherry Laurel	Prunus caroliniana	Fair	Saved
1302	15	Cherry Laurel	Prunus caroliniana	Fair	Saved
1303	8	Laurel Oak	Quercus laurifolia	Fair	Saved
1304 1305	10	Laurel Oak	Quercus laurifolia	Fair	Removed
1305	8 11	Laurel Oak	Quercus laurifolia	Fair	Removed
1307	15	Cherry Laurel Laurel Oak	Prunus caroliniana	Fair	Removed
1308	13	Laurel Oak	Quercus laurifolia Quercus laurifolia	Fair	Removed
1309	25	Laurel Oak	Quercus laurifolia	Fair Fair	Removed
1310	11.	Water Oak	Quercus nigra	Fair	Removed Removed
1311	17	Laurel Oak	Quercus laurifolia	Fair	Removed
1312	13	Laurel Oak	Quercus laurifolia	Fair	Removed
1313	10	Laurel Oak	Quercus laurifolia	Fair	Removed
1314	17	Cherry Laurel	Prunus caroliniana	Fair	Removed
1315	9	Laurel Oak	Quercus laurifolia	Fair	Removed
1316	13	Laurel Oak	Quercus laurifolia	Fair	Saved
1317	11	Laurel Oak	Quercus laurifolia	Fair	Removed
1318	24	Cherry Laurel	Prunus caroliniana	Fair	Removed
1319	10	Laurel Oak	Quercus laurifolia	Fair	Removed
1320	8	Laurel Oak	Quercus laurifolia	Fair	Removed
1321	13,19	Laurel Oak	Quercus laurifolia	Fair	Removed
1322	11	Sweetgum	Liquidambar styraciflua	Fair	Removed
1323	12	Cherry Laurel	Prunus caroliniana	Fair	Removed
1324 1325	11 10	Laurel Oak	Quercus laurifolia	Fair	Removed
1326	8	Laurel Oak	Quercus laurifolia	Fair	Removed
1327	8	Lobiolly Bay Laurel Oak	Gordonia lasianthus	Fair	Saved
1328	8	Cherry Laurel	Quercus laurifolia	Fair	Removed
1329	21	Lobiolly Bay	Prunus caroliniana Gordonia lasianthus	Fair	Removed
1330	14	Sweetgum	Liquidambar styraciflua	Fair	Removed
1331	32	Laurel Oak	Quercus laurifolia	Fair Fair	Removed
1332	10	Laurel Oak	Quercus laurifolia	Fair	Removed Removed
1334	8	Laurel Oak	Quercus laurifolia	Fair	Removed
1335	19,14	Laurel Oak	Quercus laurifolia	Fair	Removed
1336	16	Laurel Oak	Quercus laurifolia	Fair	Removed
1337	9	Cherry Laurel	Prunus caroliniana	Fair	Removed
1338	18	Sweetgum	Liquidambar styraciflua	Fair	Removed
1339	10	Cherry Laurel	Prunus caroliniana	Fair	Removed
1340	12	Cherry Laurel	Prunus caroliniana	Fair	Removed
1341	11	Mimosa	Albizia julibrissin	Fair	Removed
342	19	Loblolly Bay	Gordonia lasianthus	Fair	Removed
343	14	Laurel Oak	Quercus laurifolia		Removed
344 345	10	Laurel Oak	Quercus laurifolia		Removed
346	11	Loblolly Bay	Gordonia lasianthus		Saved
347	13,8	Loblolly Bay Laurel Oak	Gordonia lasianthus		Saved
348	11,9	Laurel Oak	Quercus laurifolia		Removed
349	9	Laurel Oak	Quercus laurifolia Quercus laurifolia		Removed
350	8	Laurel Oak	Quercus laurifolia		Removed Removed
351	10	Laurel Oak	Quercus laurifolia	· · · · · · · · · · · · · · · · · · ·	Removed
352	13	Laurel Oak	Quercus laurifolia		Removed
353	8	Laurel Oak	Quercus laurifolia		Removed
354	28	Loblolly Bay	Gordonia lasianthus		Removed
355	10	Laurel Oak	Quercus laurifolia		Removed
356	14	Lobiolly Bay	Gordonia lasianthus		Removed
357	13	Cherry Laurel	Prunus caroliniana		Removed
358	28	Loblolly Bay	Gordonia lasianthus		Removed
359	11	Laurel Oak	Quercus laurifolia		Removed
360	17	Lobiolly Bay	Gordonia lasianthus		Removed
361	17	Loblolly Bay	Gordonia lasianthus		Saved
362	13	Laurel Oak	Quercus laurifolia		Removed
363	14	Laurel Oak	Quercus laurifolia		Removed
364 365	9 8	Laurel Oak	Quercus laurifolia		Removed
366	18,16	Laurel Oak	Quercus laurifolia		Removed
367	18,16	Laurel Oak Laurel Oak	Quercus laurifolia		Removed
368	13	Laurel Oak	Quercus laurifolia		Removed
369	23	Laurel Oak	Quercus laurifolia Quercus laurifolia		Removed
370	12	Cherry Laurel	Prunus caroliniana		Removed
371	13	Laurel Oak	Quercus laurifolia		Removed Removed
372	15	Live Oak	Quercus virginiana		Removed
373	10	Live Oak	Quercus virginiana Quercus virginiana		Removed Saved
374	22	Laurel Oak	Quercus laurifolia		Saved
375	18	Cherry Laurel	Prunus caroliniana		Saved
376	13	Cherry Laurel	Prunus caroliniana		Saved
377	15	Hackberry	Celtis laevigata		Saved
	8		- John Horigata	1 641	JU VOU

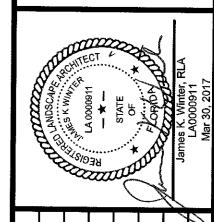


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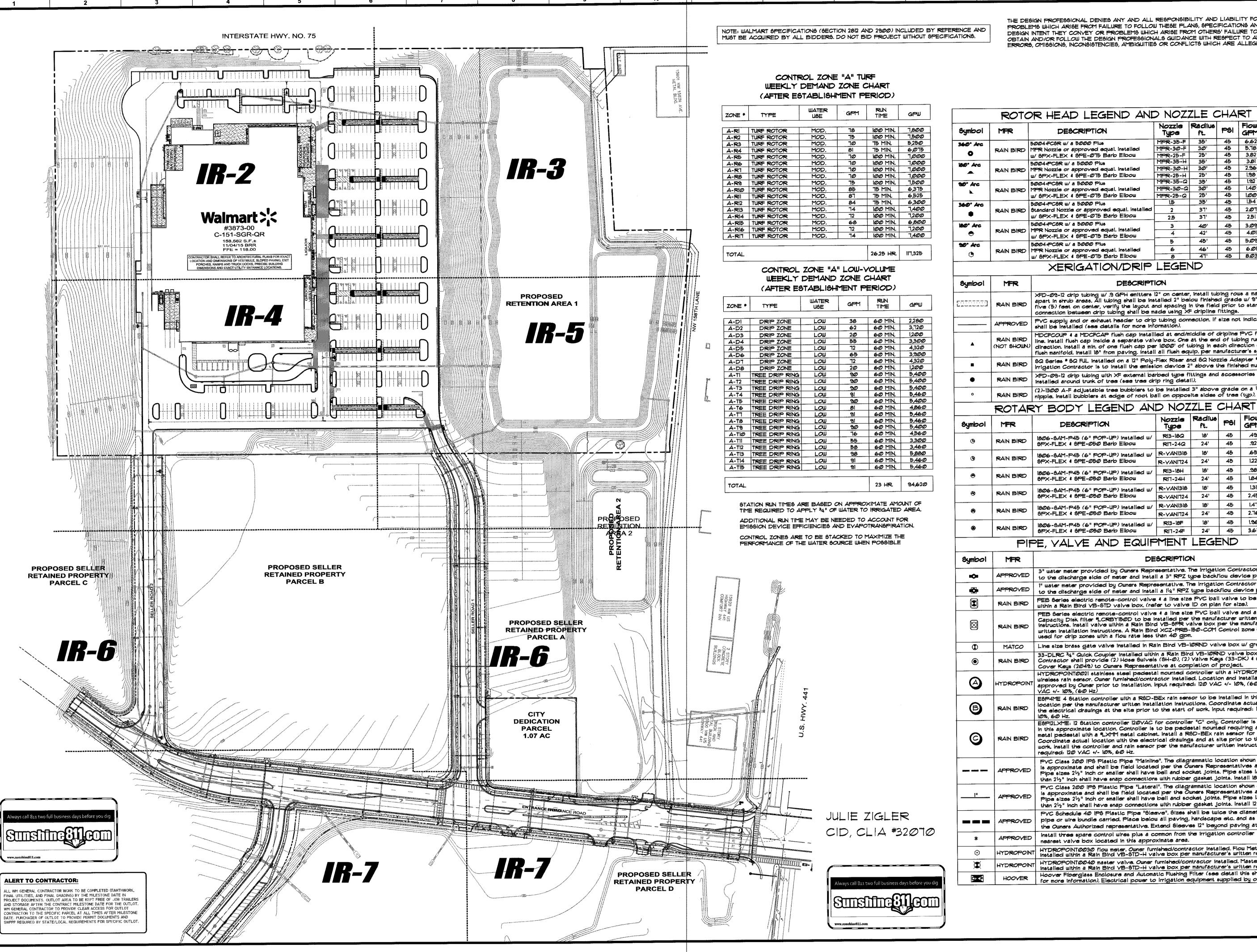


Revision	Date	No.		© 2017
Revised Per City Comm	△ 02-10-17	\triangleleft	W13392.1	Job No.: W
		\triangleleft	5/16	Date:
		\triangleleft	1"=30'	Scale:
H44604-1		∌	JKW	Approved by:
		\$	MDS	Checked by:
		@	ARS	Drawn by:
		abla	JKW	Designed by:

Plans Prepared By: **CPH**, Inc.

5200 Belfort Rd., Suite 220 Jacksonville, FL 32256 Ph: 904.332.0999 Licenses; Eng. C.O.A. No. 3215 Survey L.B. No. 7143 Arch. Lic. No. AA2600926 Lndsep. Lic. No. LC0000298

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ROTOR HEAD LEGEND AND NOZZLE CHART Nozzie Radius PSI Flow GFM DESCRIPTION MPR-35-F 5004 FCSR w/ a 5000 Plus RAIN BIRD MPR Nozzie or approved equal. installed W/ SPX-FLEX & SPE-075 Barb Elbow 5004+PCSR w/ a 5000 Plus MPR-30-H 30' RAIN BIRD MPR Nozzle or approved equal. Installed W/ SPX-FLEX & SPE-Ø15 Barb Elbow MPR-25-H 5004+PCSR w/ a 5000 Plus RAIN BIRD MPR Nozzie or approved equal. installed w/ SPX-FLEX 4 SPE-Ø15 Barb Elbow 5004+PCSR w/ a 5000 Plus RAIN BIRD | Standard Nozzie or approved equal, installed 45 2.07 29 34 W/ SPX-FLEX 4 SPE-075 Barb Elbow 45 2.51 2.5 5004+PCSR w/ a 5000 Plus 40' 45 3.09 RAIN BIRD MPR Nozzie or approved equal. Installed 45 4.01 .44 .51 42' w/ SPX-FLEX & SPE-075 Barb Elbow 45 5.09 48 56 5004+PCSR m/ a 5000 Plus 45 601 55 63 46' RAIN BIRD MPR Nozzle or approved equal. installed 8 47' 45 803 0.7 0.81 w/ SPX-FLEX 4 SPE-075 Barb Elbow XERIGATION/DRIP LEGEND

Symbol	MITR	DESCRIPTION
	RAIN BIRD	XFD-09-12 drip tubing w /.9 GPH emitters 12" on center, install tubing rows a maximum of 18" apart in shrub areas. All tubing shall be installed 2" below finished grade w /9" wire stakes five (5) feet on center, verify the layout and spacing in the field prior to starting work. All connection between drip tubing shall be made using XF dripline fittings.
	APPROVED	FVC supply and or exhaust header to drip tubing connection. If size not indicated then $^{3}4$ " shall be installed (see details for more information).
<u> </u>	RAIN BIRD (NOT SHOWN)	MDCFCOUP 4 a MDCFCAP flush cap installed at end/middle of dripline PVC flush manifold line, install flush cap inside a separate valve box. One at the end of tubing runs in each direction, install a min, of one flush cap per 1000' of tubing in each direction on dripline flush manifold, install 18" from paving, install all flush equip, per manufacturer's specifications.
	RAIN BIRD	SQ Series * SQ FUL installed on a 12" Poly-Flex Riser and SQ Nozzle Adapter *SQ ADP12 The Irrigation Contractor is to install the emission device 2" above the finished mulch layer.
•	RAIN BIRD	XFD-03-12 drip tubing with XF external barbed type fittings and accessories to be installed around trunk of tree (see tree drip ring detail).
0	BAIN BIBD	(2)-1300 A-F adjustable tree bubblers to be installed 3" above grade on a 1/2" Sch. 80

	ROTAR	RY BODY LEGEND AN	d noz	ZLE		RT		
Symbol	MFR	DESCRIPTION	Nozzle Type	Radiue ft.	PSI	Flow		CIP.
		1806-SAM-P45 (6" POP-UP) installed w/	R13-18Q	18'	45	.49	61	10 17.
(RAIN BIRD	SPX-FLEX & SPE-050 Barb Elbou	R17-24Q	24'	45	.92	65	ħ,
		1806-SAM-P45 (6" POP-UP) installed w/	R-YANI318	18'	45	<i>6</i> 5	61	70
(9)	RAIN BIRD	SPX-FLEX & SPE-050 Barb Elbou	R-VANIT24	24'	45	122	65	.75
		1806-SAM-P45 (6" POP-UP) installed w/	R13-18H	18'	45	.98	61	.70
⊛	RAIN BIRD	SPX-FLEX & SPE-050 Barb Elbow	RI7-24H	24'	45	184	<i>6</i> 5	.75
		1806-\$AM-P45 (6" POP-UP) installed w/	R-YANISIS	18'	45	1.31	6	.70
⊗	RAIN BIRD	SPX-FLEX 4 SPE-050 Barb Elbou	R-VANIT24	24'	45	2.45	65	.75
	SPX-FLEX \$ SPE-200 Darb Elbour		R-VANI318	18'	45	1.47	61	JØ
⊗	RAIN BIRD	SPX-FLEX 4 SPE-050 Barb Elbou	R-VANIT24	24'	45	2.76	65	.75
		1806-SAM-P45 (6" POP-UP) installed w/	R13-18F	18'	45	1.96	61	.TØ
₩	RAIN BIRD	SPX-FLEX & SPE-050 Barb Elbow	RIT-24F	24'	45	3.67	65	.75

PIPE, VALVE AND EQUIPMENT LEGEND

Symbol	MFR	DESCRIPTION
101	APPROVED	3" water meter provided by Owners Representative. The irrigation Contractor shall tie to the discharge side of meter and install a 3" RPZ type backflow device per local code
•	APPROVED	I" water meter provided by Owners Representative. The irrigation Contractor shall tie to the discharge side of meter and install a 114" RPZ type backflow device per local code
	RAIN BIRD	PEB Series electric remote-control valve & a line size PVC ball valve to be installed within a Rain Bird VB-STD valve box. (refer to valve ID on plan for size).
	RAIN BIRD	PEB Series electric remote-control valve & a line size PVC ball valve and a Large Capacity Disk filter *LCRBY150D to be installed per the manufacturer written installation instructions. Installation within a Rain Bird VB-SPR valve box per the manufacturer written installation instructions. A Rain Bird XCZ-PRB-150-COM Control zone kit can be used for drip zones with a flow rate less than 40 gpm.
(MATCO	Line size brass gate valve installed in Rain Bird VB-10RND valve box w/ green lid.
•	RAIN BIRD	33-DLRC 34" Quick Coupler installed within a Rain Bird VB-10RND valve box. The IRR Contractor shall provide (2) Hose Swivels (SH-0), (2) Yalve Keys (33-DK) \$ (2) Locking Cover Keys (2049) to Owners Representative at completion of project.
(4)	HYDROPOINT	HTDROPOINT0021 stainless steel pedestal mounted controller with a HTDROPOINT0042 wireless rain sensor. Owner furnished/contractor installed. Location and installation shall be approved by Owner prior to installation. Input required: 120 VAC +/- 10%, (60 Hz) or 220 VAC +/- 10%, (60 Hz)
₿	RAIN BIRD	ESPAME 4 Station controller with a RSD-BEX rain sensor to be installed in this approximate location per the manufacturer written installation instructions. Coordinate actual location with the electrical drawings at the site prior to the start of work input required: 120 YAC +/-10%, 60 Hz.
9	RAIN BIRD	ESPI2LXME: 12 Station controller 120VAC for controller "C" only. Controller is to be installed in this approximate location. Controller is to be pedestal mounted requiring a "LXMMPED metal pedestal with a "LXMM metal cabinet. Install a RSD-BEX rain sensor for the controller. Coordinate actual location with the electrical drawings and at site prior to the start of work install the controller and rain sensor per the manufacturer written instructions. Input required: 120 VAC +/- 10%, 60 Hz.
	APPROVED	PVC Class 200 iPS Plastic Pipe "Mainline". The diagrammatic location shown on pian is approximate and shall be field located per the Owners Representatives approval. Pipe sizes 2½" inch or smaller shall have bell and socket joints. Pipe sizes larger then than 2½" inch shall have snap connections with rubber gasket joints. Install 18" below grade
1"	APPROVED	PVC Class 200 IPS Plastic Pipe "Lateral". The diagrammatic location shown on plan is approximate and shall be field located per the Owners Representatives approval. Pipe sizes 2½" inch or smaller shall have bell and socket joints. Pipe sizes larger then than 2½" inch shall have snap connections with rubber gasket joints. Install 12" below grade
	APPROVED	PVC Schedule 40 IPS Plastic Pipe "Sleeve". Sizes shall be twice the diameter of the pipe or wire bundle carried. Place below all paving, hardscape etc. and as directed by the Owners Authorized representative. Extend Sleeves 12" beyond paving at each end.
*	APPROVED	install three spare control wires plus a common from the irrigation controller location to the nearest valve box located in this approximate area.
⊙	HYDROPOINT	I Motaness within a Team Direct 25 of Direct
X	HYDROPOINT	Installed within a Nam Dild YD Old In Tally Don Poliment
⊳ ∢	HOOVER	Hoover Fiberglass Enclosure and Automatic Flushing Filter (see detail this sheet for more information). Electrical power to irrigation equipment supplied by owners Rep.



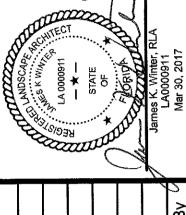
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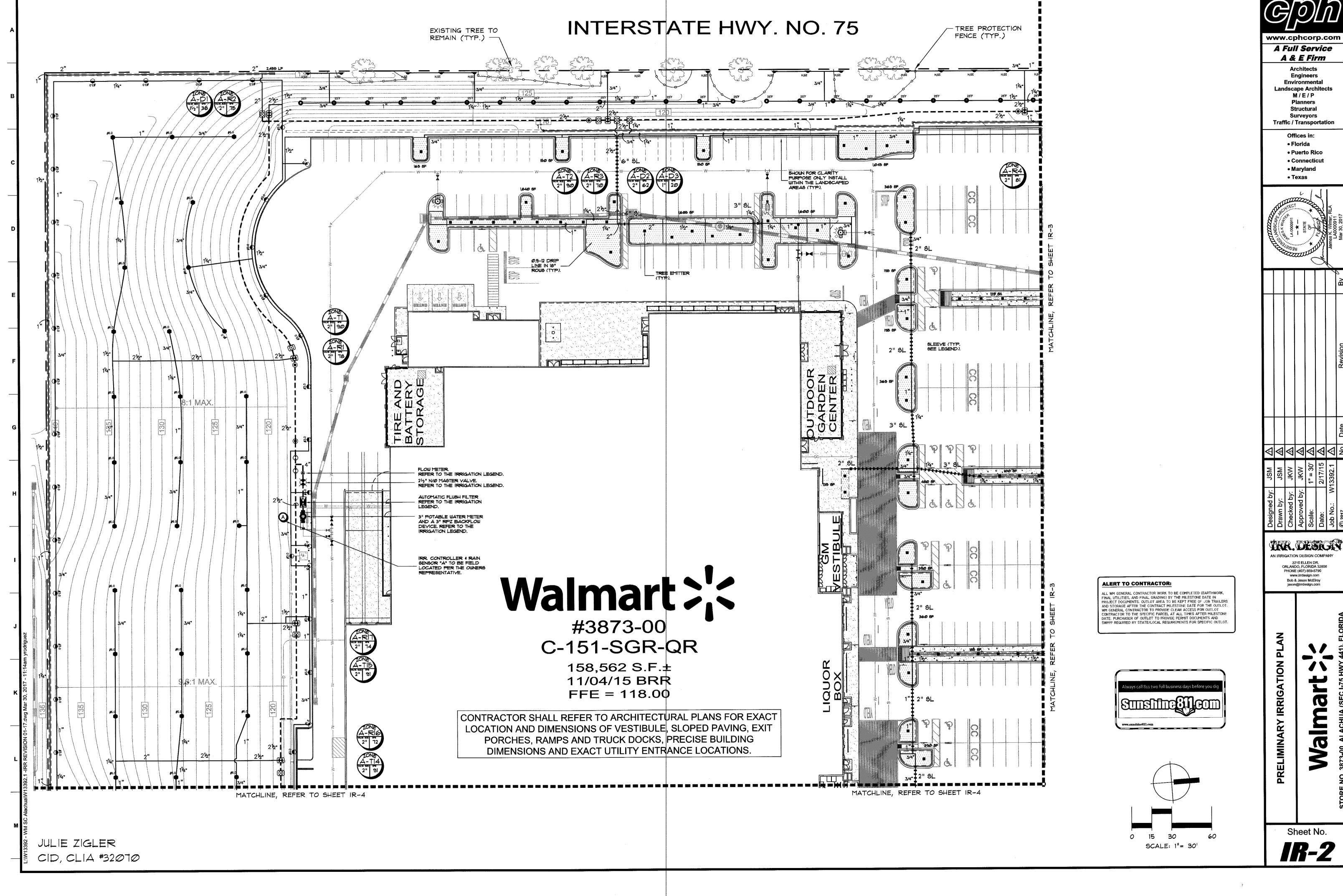
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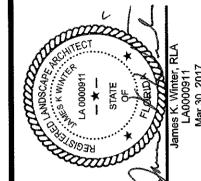
AN IRRIGATION DESIGN COMPANY 3215 ELLEN DR. ORLANDO, FLORIDA 32806 PHONE (407) 859-5790 www.irrdesign.com Bob & Jason McElroy

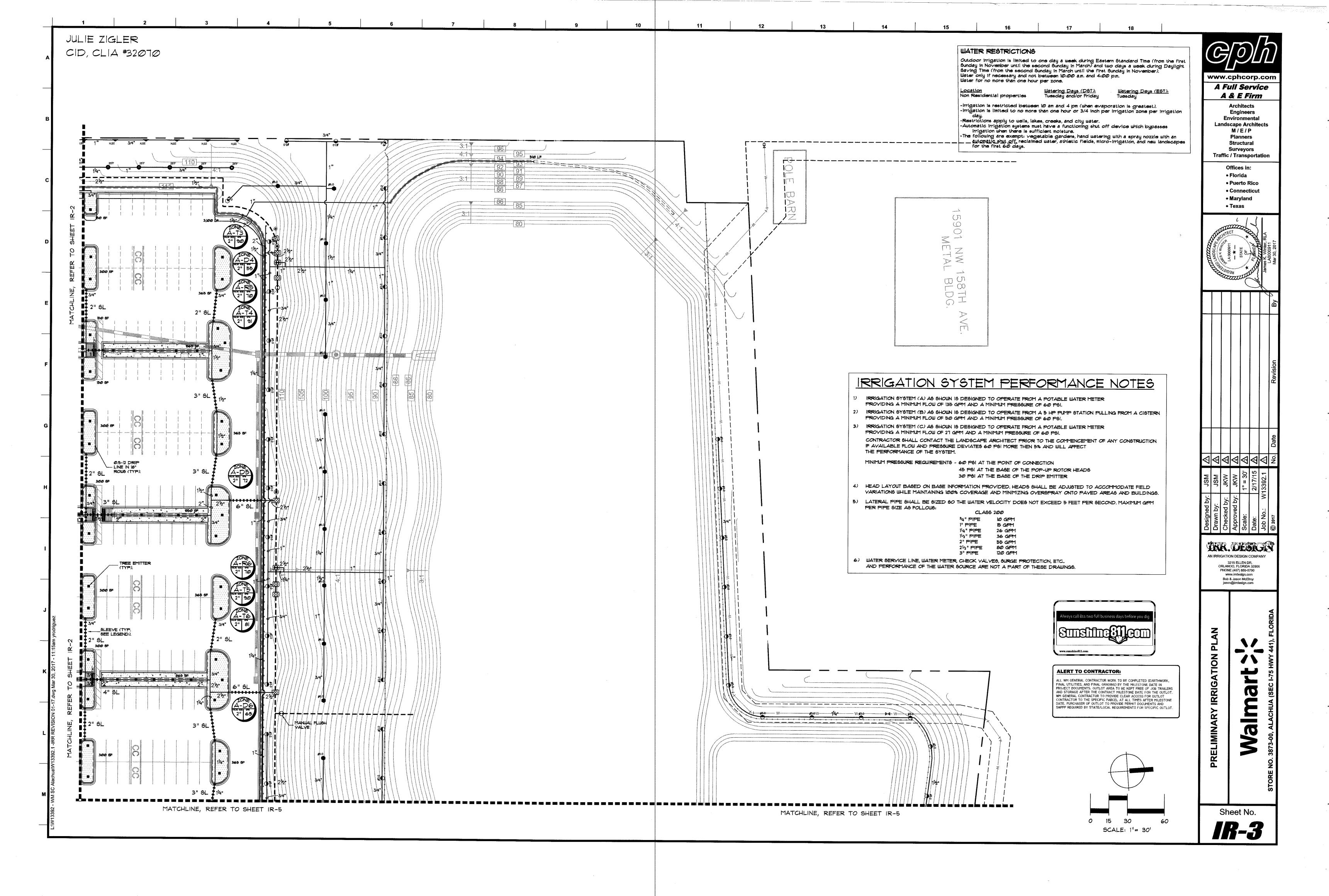
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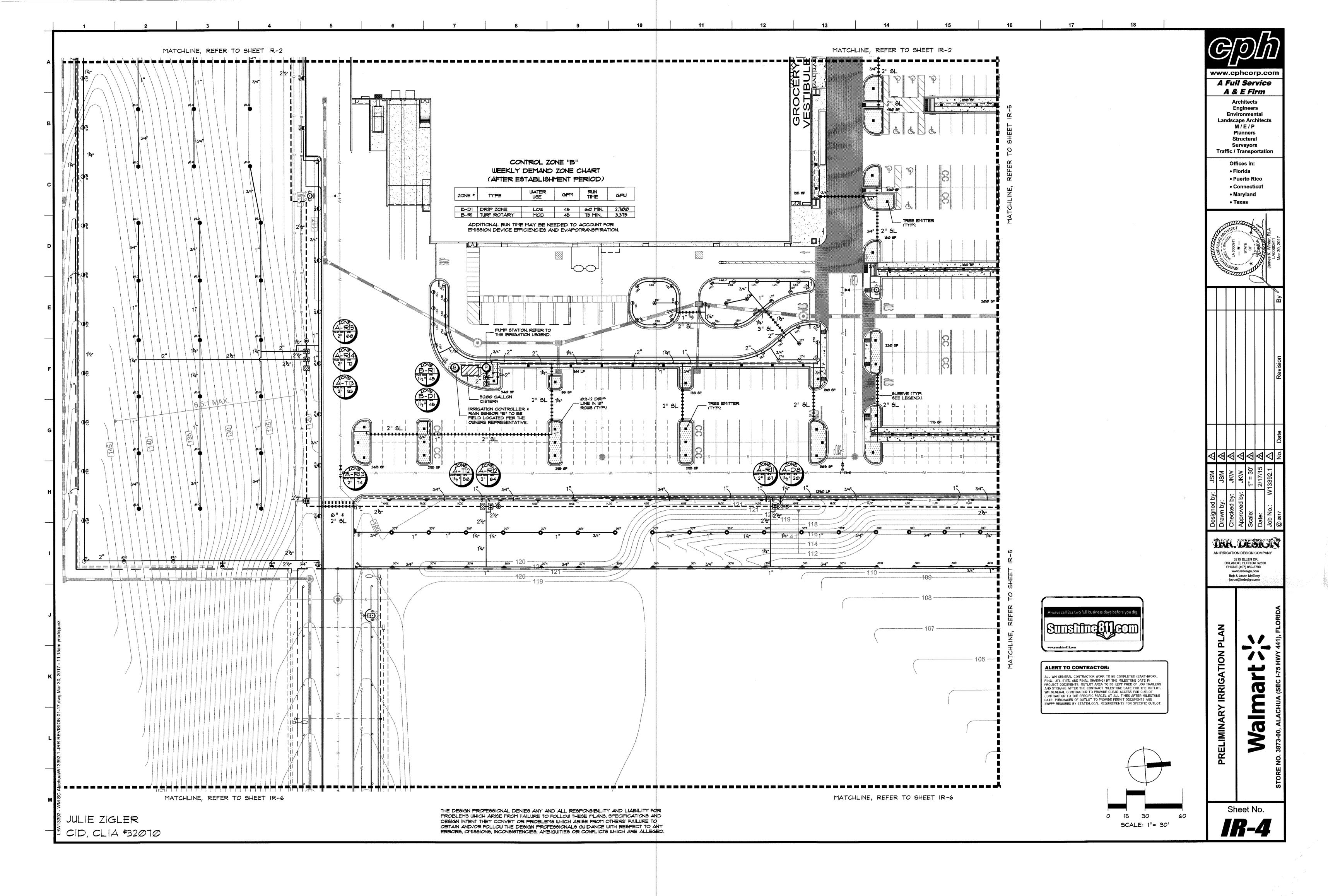
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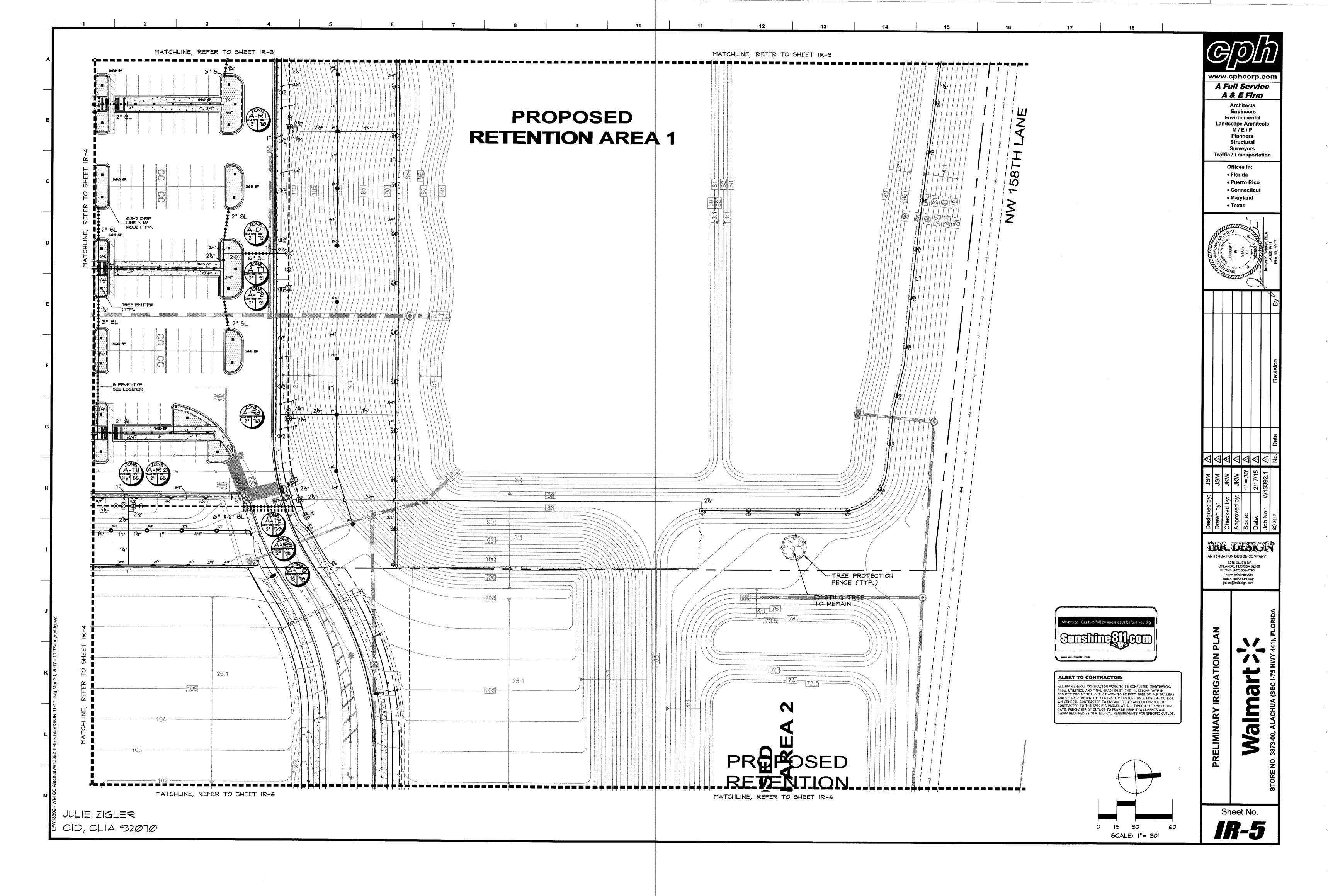
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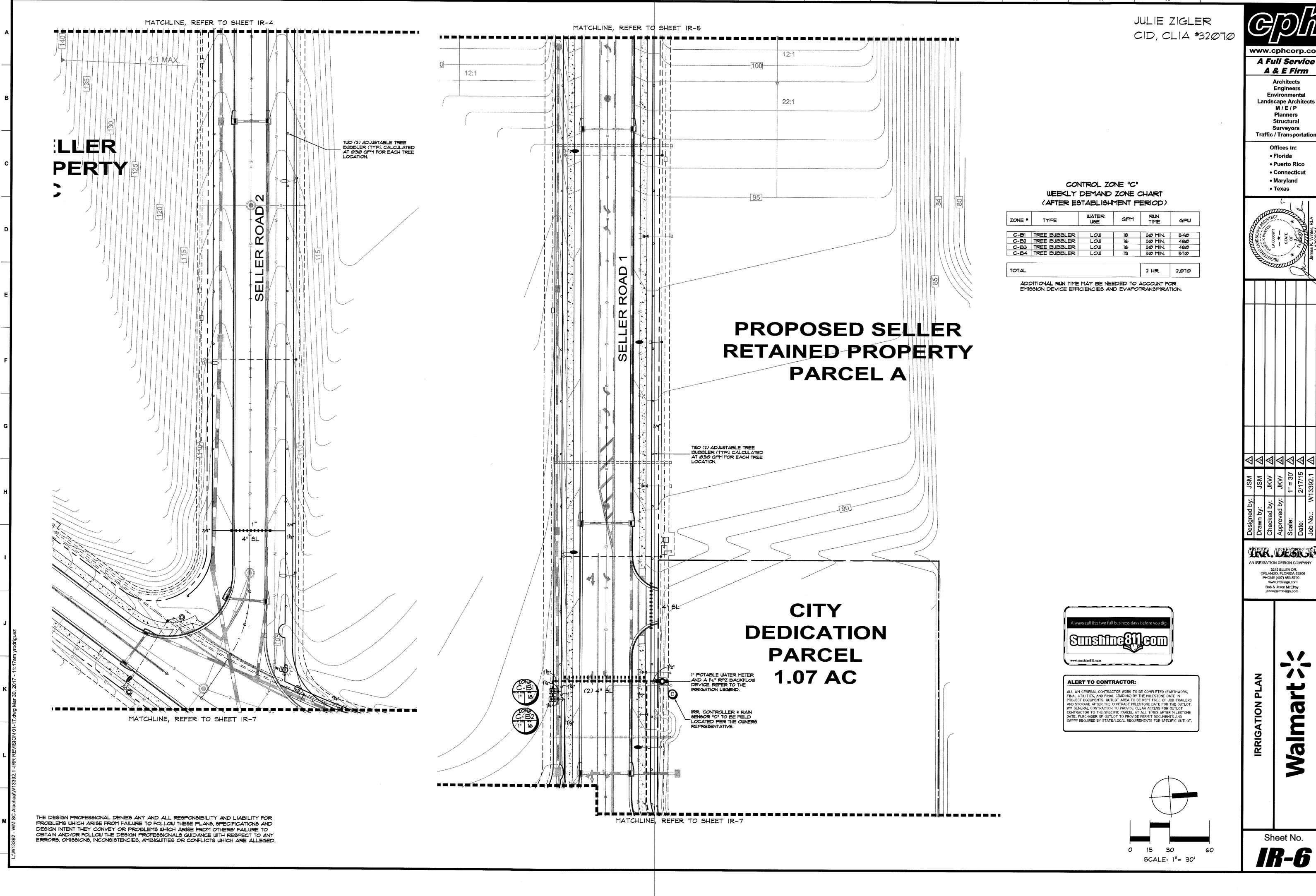










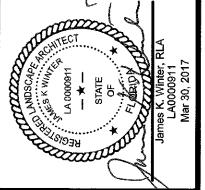


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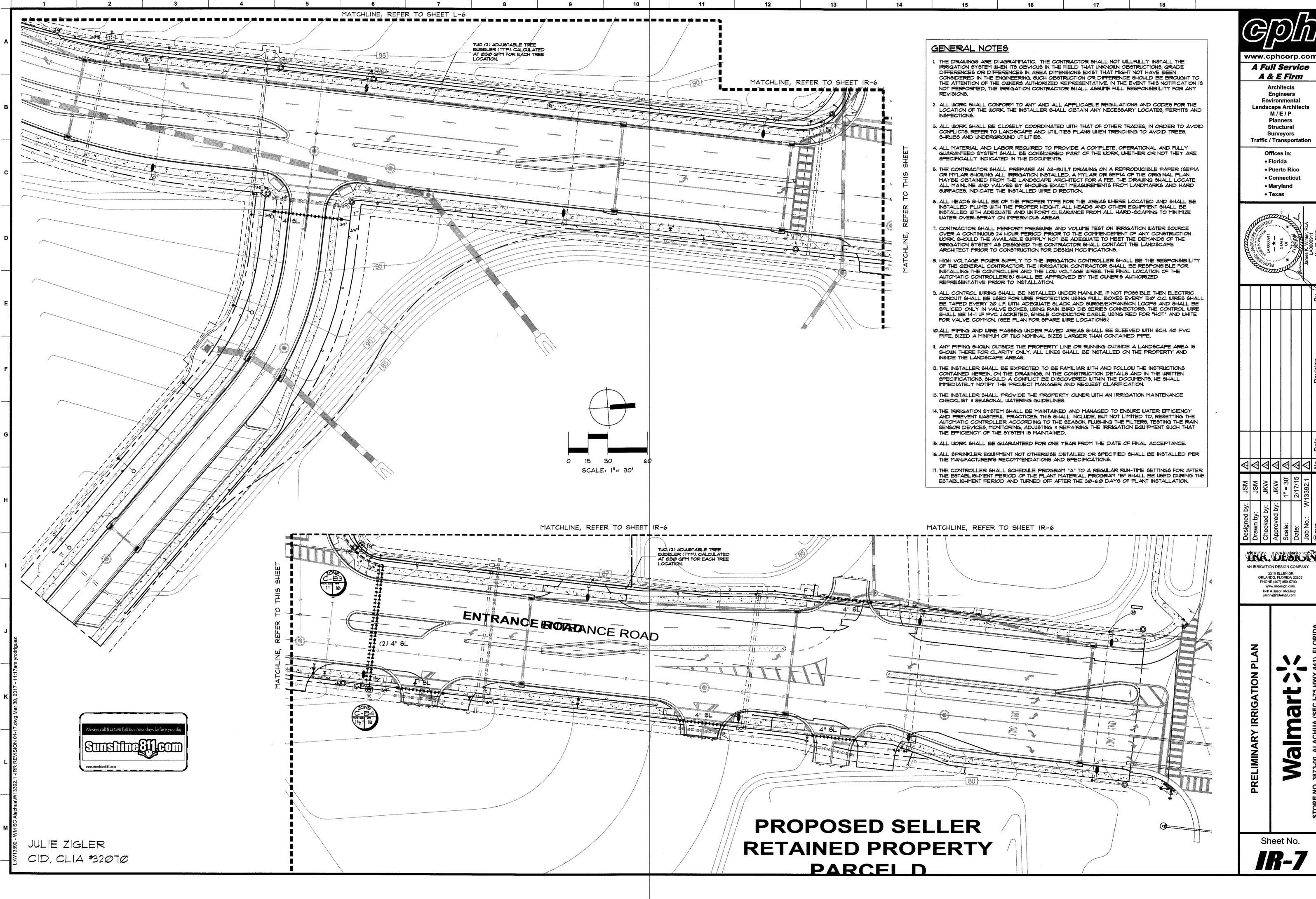
 Connecticut Maryland



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276	© 2017		No.	Date	Revision	

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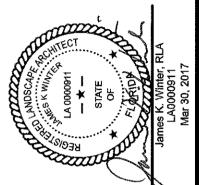


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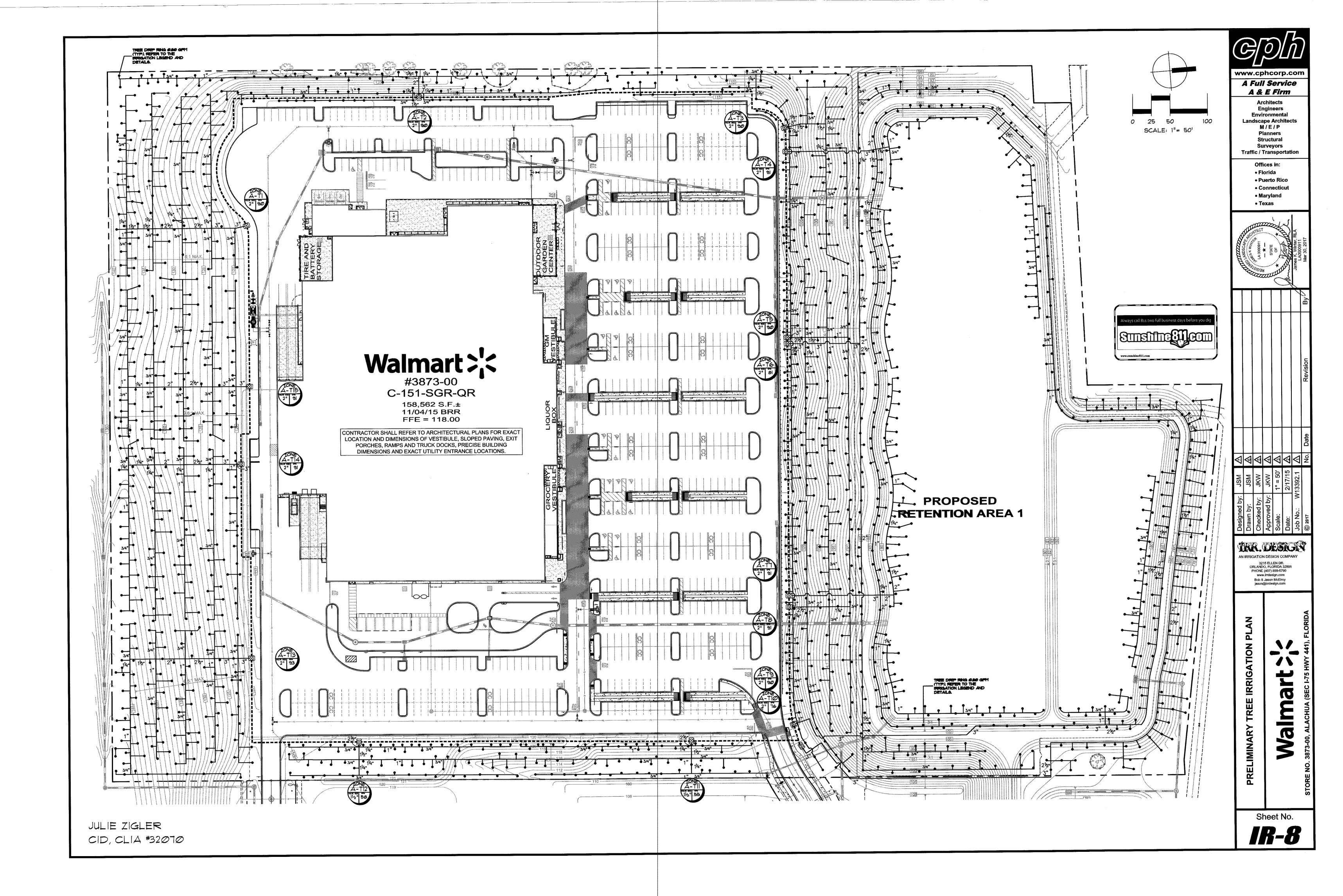
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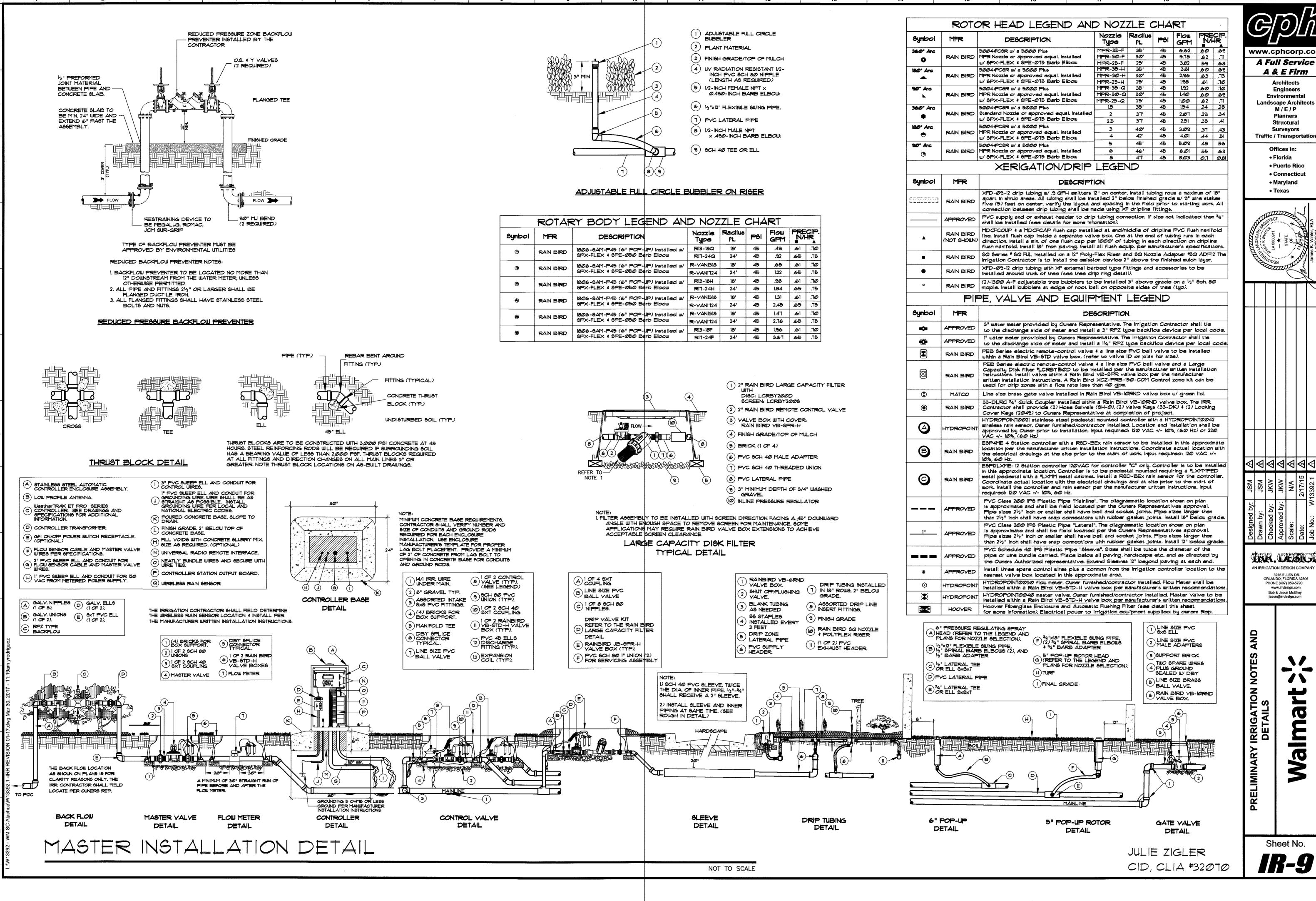
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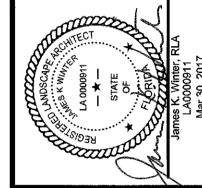


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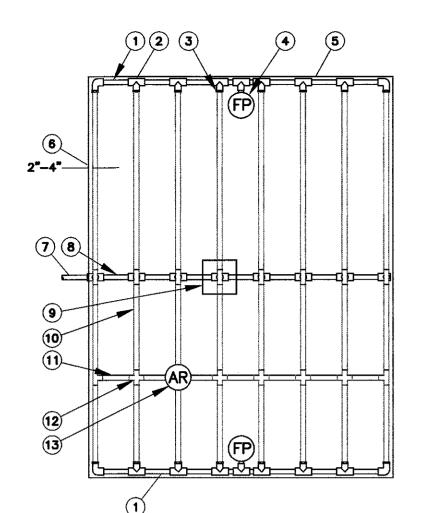
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O Na



(1) PVC EXHAUST HEADER

(2) PVC SCH 40 TEE OR EL (TYPICAL)

(3) BARB X MALE FITTING:

RAIN BIRD XIT-MA FITTING (TYPICAL) 4) FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "XFS FLUSH POINT" OR "XFS FLUSH POINT WITH BALL VALVE"

PERIMETER OF AREA (6) PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF

(1) PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)

(9) CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE (TYPICAL)- SEE INSET A

(8) PVC SUPPLY MANIFOLD

(10) SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE (11) RAIN BIRD XF SERIES BLANK TUBING

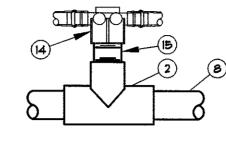
(12) BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR RAIN BIRD XFD-CROSS (TYPICAL) (13) K" AIR RELIEF VALVE: RAIN BIRD MODEL: SEE RAIN BIRD XFS DETAILS FOR AIR

(14) BARB X FEMALE FITTING: RAIN BIRD XFD-TFA-075 FIT (15) 34" PVC NIPPLE, LENGTH AS NE

30 40

50

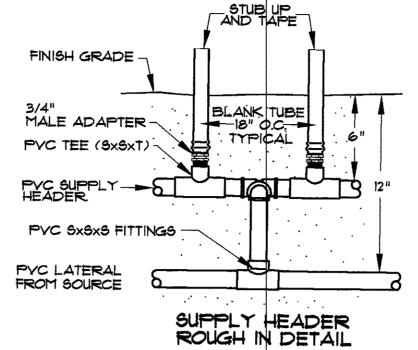
RELIEF INSTALLATION



E FITTING: D-TFA-Ø15 FIT LENGTH AS N		RY	INSET A				
XFS [Oripline I	Maximur	n Latera	l Length	s (Feet)		
	12" S	pacing	18" S	pacing	24" S	pacing	
Inlet Pressure psi	Nominal Flow (gph)		Nominal F	low (gph)	Nominal	Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9	
15	273	155	314	250	424	322	
20	31 8	169	353	294	508	368	
						 	

417 285 528 420 720 488

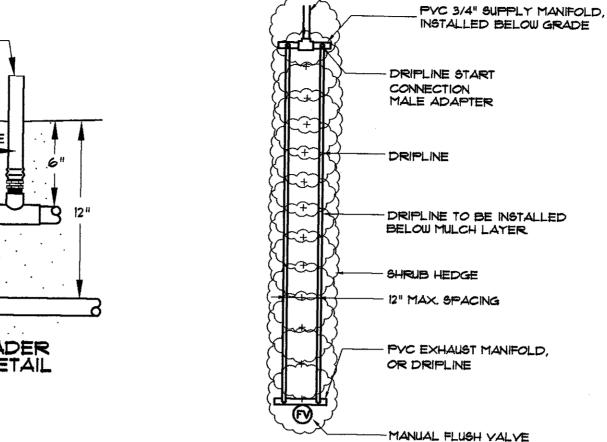
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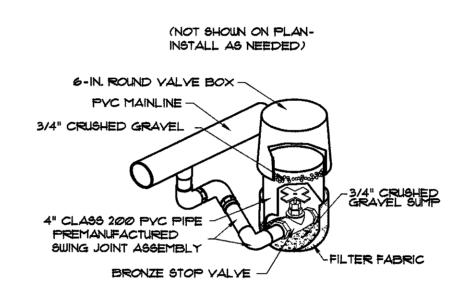
_ STUBUP_ AND TAPE

EXHAUST HEADER

ROUGH IN DETAIL

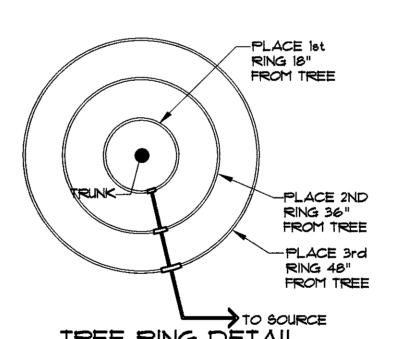






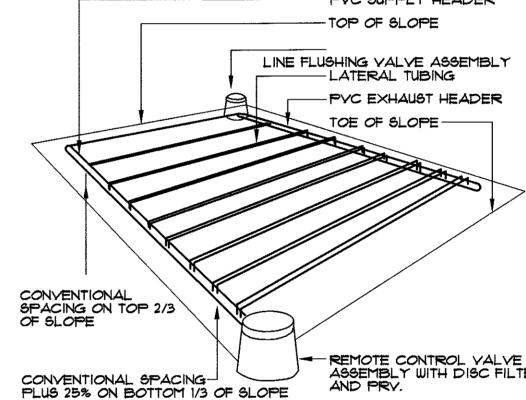
- SUPPLY LINE

MANUAL DRAIN VALVE



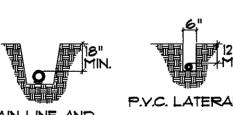
TREE RING DETAIL (DESIGNED AS SEPARATE ZONES)

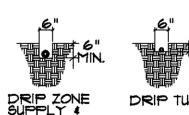
PROVIDE 3 GALLONS PER CALIPER INCH.



ALIGN LATERALS PARALLEL TO THE CONTOURS OF THE SLOPE

SLOPE FEED LAYOUT







DETAIL NOTES:

- 1. ALL P.V.C. PIPING SHALL BE SNAKED IN TRENCHES.
- LOCAL CODES. 3. ALL WIRING TO BE BUNDLED AND
- INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. 5. PROVIDE PIPE AND WIRE SLEEVING
- SHALL BE WITHIN SEPARATE 2" ELECTRICAL CHASE.



TRENCHING

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(3) VALVE BOX WITH COVER: RAIN BIRD VB-SPR-H

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(4) FINISH GRADE/TOP OF MULCH

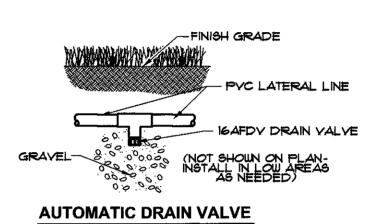
(5) BRICK (1 OF 4)

(6) PVC SCH 40 MALE ADAPTER 1 PVC SCH 40 THREADED UNION

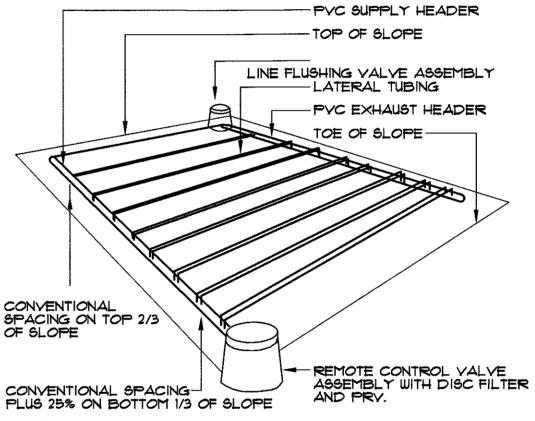
(8) PVC LATERAL PIPE (9) 3" MINIMUM DEPTH OF 3/4" WASHED GRAYEL (10) INLINE PRESSURE REGULATOR

I. FILTER ASSEMBLY TO BE INSTALLED WITH SCREEN DIRECTION FACING A 45° DOWNWARD ANGLE WITH ENOUGH SPACE TO REMOVE SCREEN FOR MAINTENANCE, SOME APPLICATIONS MAY REQUIRE RAIN BIRD VALVE BOX EXTENSIONS TO ACHIEVE

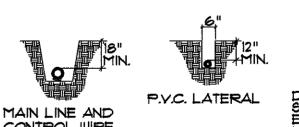
ACCEPTABLE SCREEN CLEARANCE. LARGE CAPACITY DISK FILTER TYPICAL DETAIL



ALL LATERAL LINES SHALL BE EQUIPPED WITH AUTOMATIC DRAIN YALVES AT LOW POINTS



DETAIL





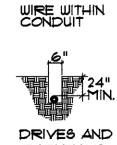




2. ALL WIRING TO BE INSTALLED PER

TAPED AT 10' INTERVALS. 4. ALL MAIN SUPPLY LINES TO BE

UNDER ALL PAYED SURFACES. WIRE



DETAIL

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Sheet No.

SPACINGS.

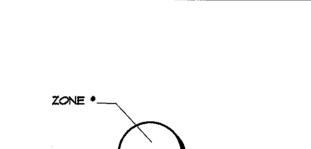
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XF-5DI DRIPLINE INSTALLATION GUIDE FOR SUGGESTED

2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE. 3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.

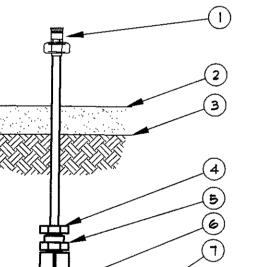
4. WHEN USING ITMM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT

IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON

XFS SUB-SURFACE CENTER FEED DRIP LAYOUT DETAIL



VALVE IDENTIFIER



SQ SERIES NOZZLE & A POLYFLEX RISER ADAPTER *SQ-ADP

(2) TOP OF MULCH

3 FINISH GRADE

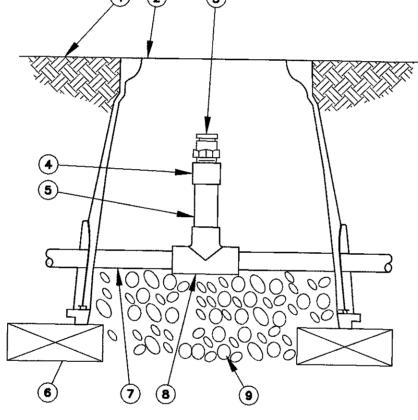
4 POLYFLEX RISER & ADAPTER ASSEMBLY *PFR-FRA

5 1/2" FEMALE PIPE THREAD ADAPTER: RAIN BIRD MDCF50FPT

6 1/2" COMPRESSION FITTING TEE: RAIN BIRD MOCFTEE (7) ½" POLYETHYLENE TUBING:

SQ NOZZLE W/ ADAPTER ON POLYFLEX

RISER INTO 1/2" POLYETHYLENE TUBING



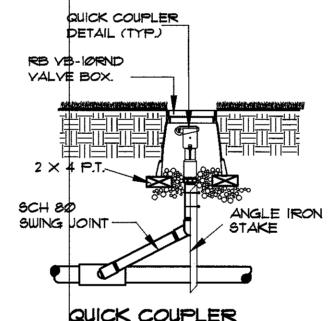
1) FINISH GRADE (5) PVC SCH SØ RISER (6) BRICK (1 OF 2)

2 SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB TXB 3 K" AIR RELIEF VALVE: RAIN BIRD ARVOSO TO BE INSTALLED AT HIGH

POINTS IN DRIP ZONE

(8) PVC SCH 40 TEE 9 3" MINIMUM DEPTH OF

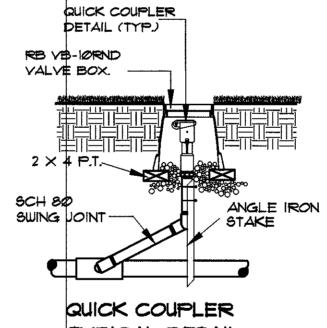
7) PVC HEADER PIPE



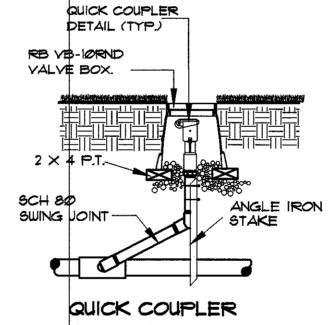
- FINISH GRADE

- 34" MALE ADAPTER

PVC TEE (SXSXT)



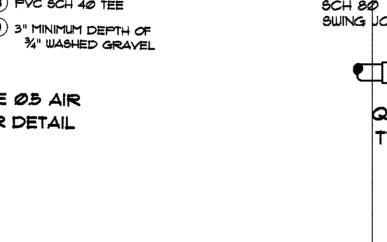
TYPICAL DETAIL



34" WASHED GRAVEL (4) PVC SCH 40 FEMALE ADAPTER

RELIEF VALVE ON HEADER DETAIL





ALERT TO CONTRACTOR:

ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

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DRIP TUBING NOTES

- INSTALL ALL DRIP TUBING BELOW THE MULCH LAYER. USE U SHAPED WIRE STABILIZERS TO HOLD LINES IN PLACE.
- 2) KEEP ALL DRIP LINES CLEAN AT ALL TIMES BEFORE THE FINAL CONNECTION.
- TAPE ALL TUBE ENDS OR USE DIRT CAPS. 3) ALL DRIP TUBING SHALL HAVE UNIFORM SPACING AND BURIAL DEPTH.
- 4) ALWAYS FLUSH ALL LINES BEFORE CONNECTION.
- INSTRUCTIONS. INSTALL PER MANUFACTURER SPECIFICATIONS 6) AVOID SHARP BENDS IN THE TUBING, DO NOT BEND THE TUBING WITH LESS
- THEN A T" RADIUS. 1) SPACE TUBING AS NOTED ON THE PLAN. THE PLAN DOES NOT ALWAYS SHOW ALL DRIP TUBING. THE PLAN LAYOUT IS FOR CLARITY ONLY.

NOTE: WALMART SPECIFICATIONS (SECTION 2812 AND 2900) INCLUDED BY REFERENCE AND MUST BE ACQUIRED BY ALL BIDDERS, DO NOT BID PROJECT WITHOUT SPECIFICATIONS.

5) REFER TO THE MANUFACTURER DRIP INSTALLATION MANUAL FOR INSTALLATION TAPE END OF SLEEVE STUBBED UP

ROUGH IN SLEEVING DETAIL

SCH.40 SOLVENT-WELD PVC

(REQUIREMENTS YARY - CHECK CODES FIRST)

CAP ENDS AND

STAKE STUB UP

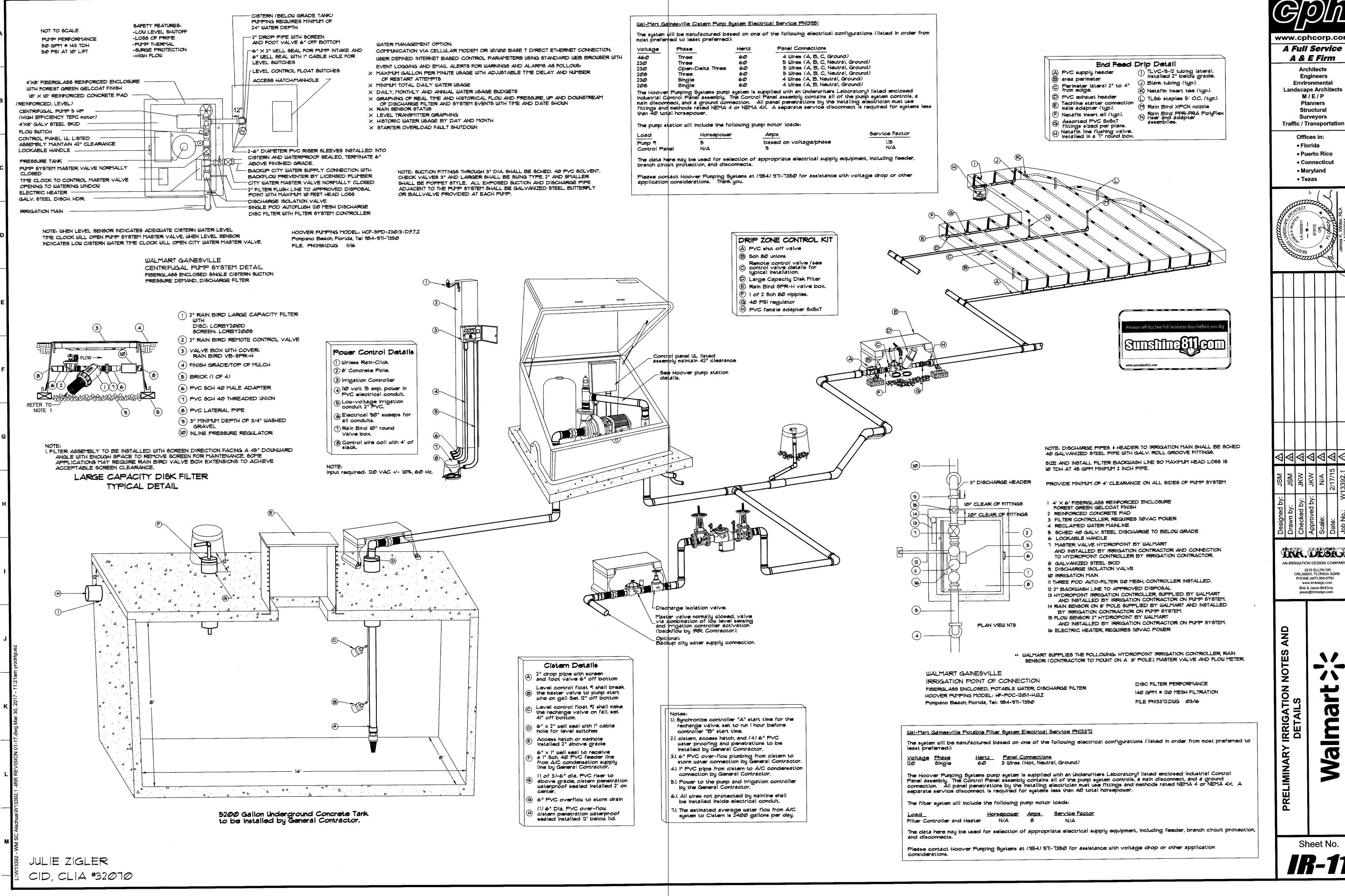
MARK BACK

OF CURB

MEASUREMENTS FROM

2 REFERENCE POINT

TO STUB UP.



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