

SIDEWALK PLAN
SCALE: 3/16" = 1'-0"

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SITE LAYOUT NOTES

2. CJ = CONTROL JOINT
3. PROVIDE EXPANSION JOINT BETWEEN SIDEWALK AND BUILDING SLAB
4. ALL SIDEWALKS TO BE MINIMUM 4" THICK
5. ALL CONTROL JOINTS TO BE TOOLED CONTROL JOINTS
6. ALL SITE STRIPING PER CIVIL PLANS
7. ALL CURBING PER CIVIL PLANS
8. ALL HC PARKING DETAILS PER CIVIL PLANS

RECEIVED
JUN 25 2006
KEY
TOWN PLANNING & BUILDING
Planning, Zoning & Building

**BRISTA COMMONS, BUILDING TWO
3160 GULF OF MEXICO DRIVE
LONGBOAT KEY, FL**

The logo for Brista Homes, featuring the word "BRISTA" in a large, bold, serif font above the word "HOMES" in a smaller, all-caps serif font.

Jking

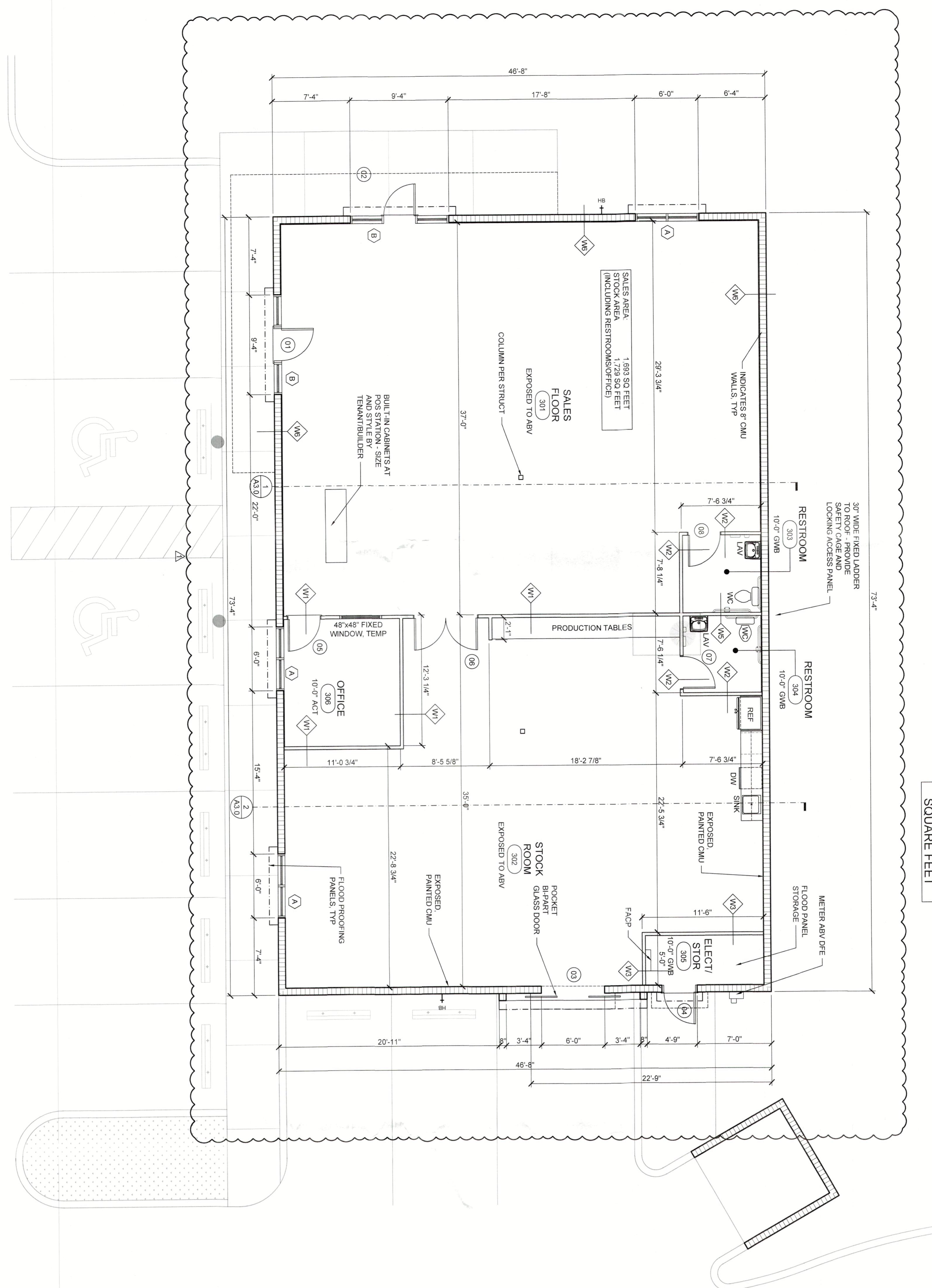
DO NOT SCALE
DRAWINGS FCC
DIMENSIONS IN
SHOW CONTACT
PLAN COORDINATES
FOR CLARIFICATION

SHEET NUMBER
A1.0

NEW BUILDING

AREA: 3,422

SQUARE FEET



FLOOR PLAN NOTES

SCALE: 3/16" = 1'-0"

ALL ITEMS ARE "FOREQUAL" - VERIFY ALL FINISHES AND COLORS W/ OWNER

NUMBER	TYPE	SIZE	FRAME		HARDWARE	NOTES					
			WIDTH	HT	MATL	MATL	HEAD	JAMB	SILL		
01	STOREFRONT	3'-0" x 8'-0"	ALUMINUM	ALUMINUM						HW1	**
02	BIPART STOREFRONT	3'-0" x 8'-0"	ALUMINUM	ALUMINUM	SEE STOREFRONT SHOP DWGS SEE STRENTN SHOP DWGS	**				HW1	**
03	SC METAL	3'-0" x 8'-0"	STEEL	STEEL	SEE SC METAL DWGS SEE SC METAL DWGS	**				HW6	**
04	PREHUNG INTERIOR	6'-0" x 8'-0"	HC WOOD	WOOD	**					HW3	**
05	PREHUNG DBL	6'-0" x 8'-0"	HC WOOD	WOOD	**					HW4	**
06	PREHUNG INTERIOR	3'-0" x 8'-0"	HC WOOD	WOOD	**					HW2	**
07	PREHUNG INTERIOR	3'-0" x 8'-0"	HC WOOD	WOOD	**					HW2	**

DOOR AND FRAME SCHEDULE

FRAME DETAIL

NOTES

HEAD JAMB SILL

HW1

**

HW1

**

HW6

**

HW3

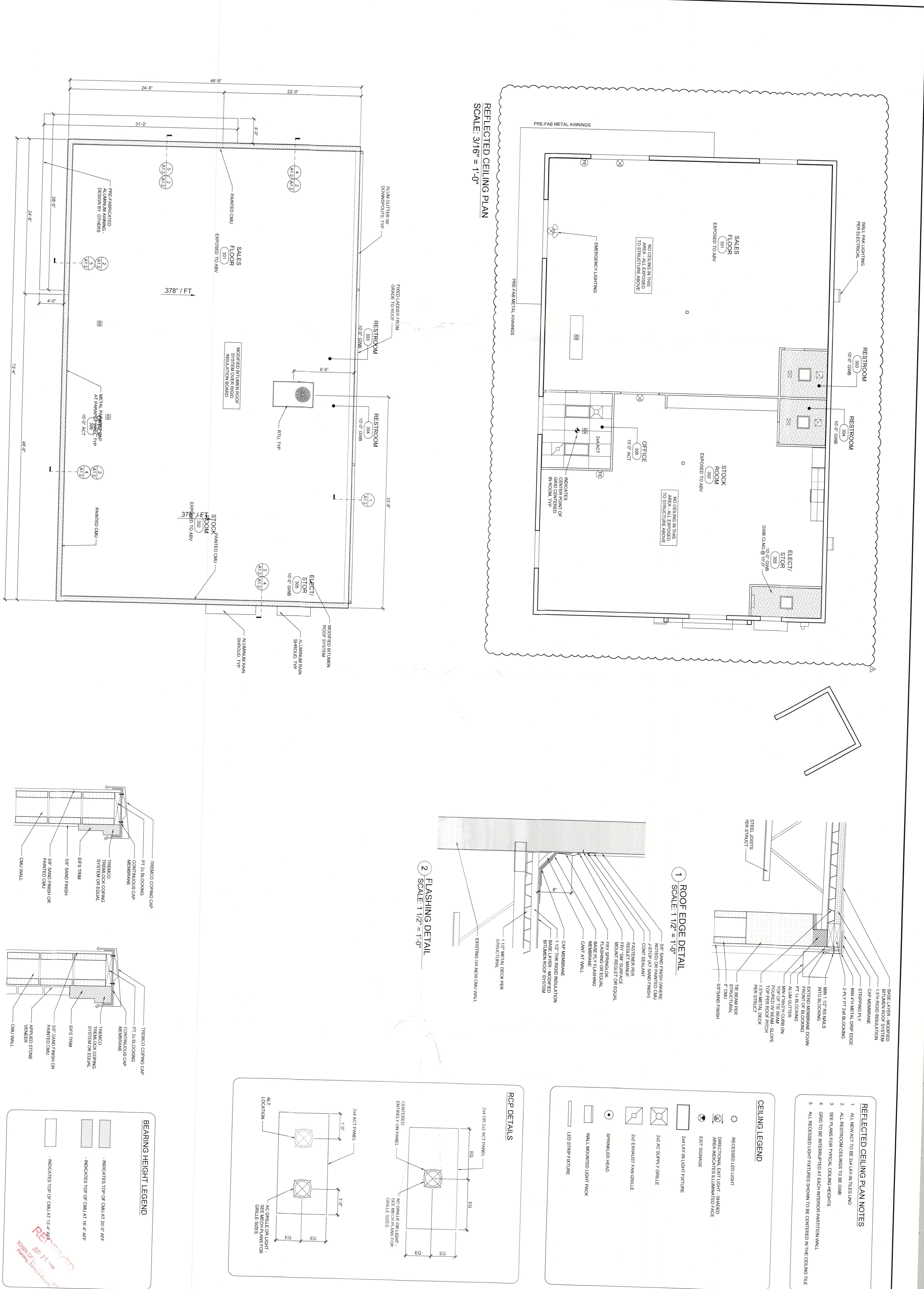
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HW4

**

HW2

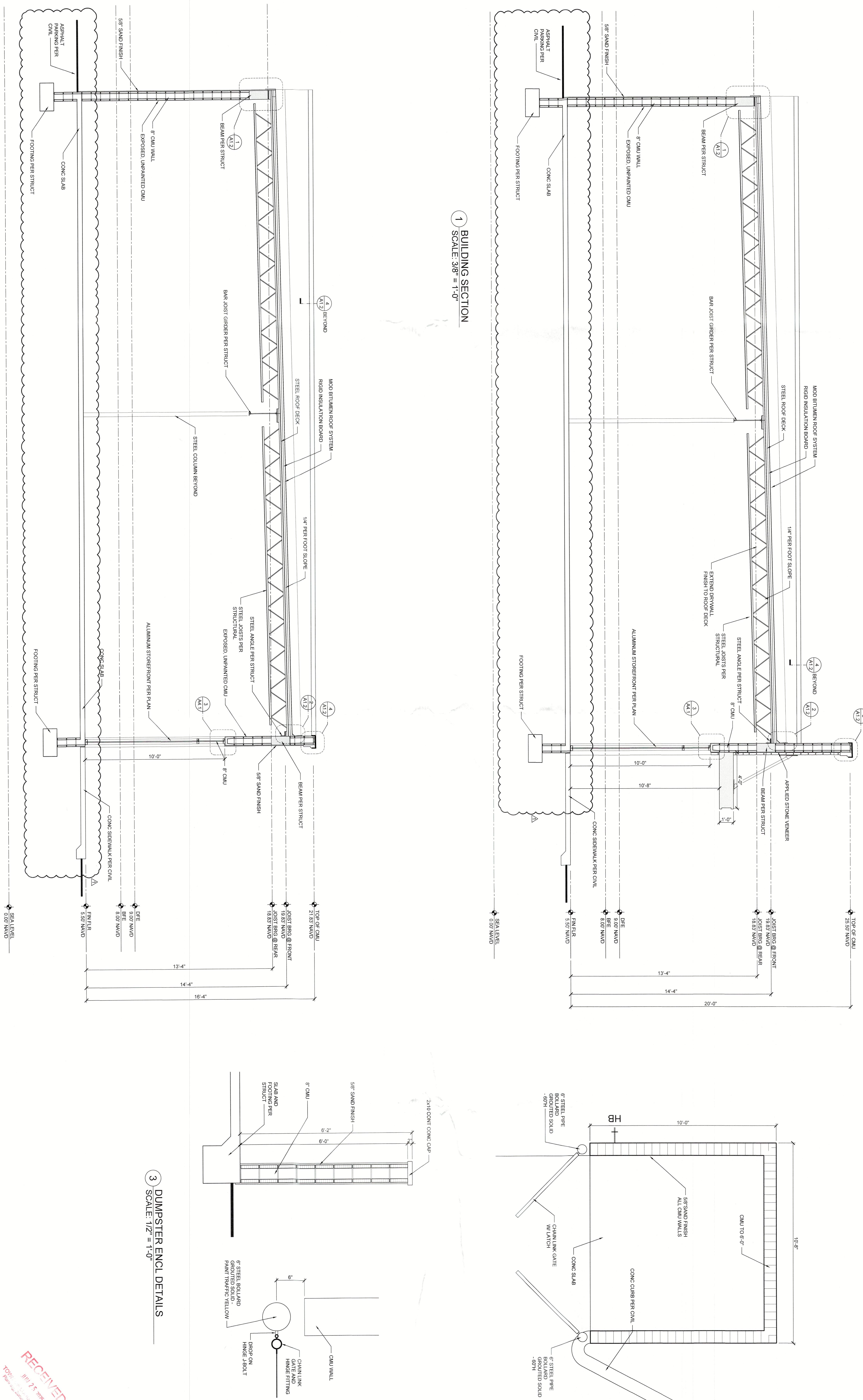
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BRISTA COMMONS, BUILDING TWO 3160 GULF OF MEXICO DRIVE

The logo for Brista Homes, featuring the word "BRISTA" in a large, bold, serif font above the word "HOMES" in a smaller, all-caps serif font.

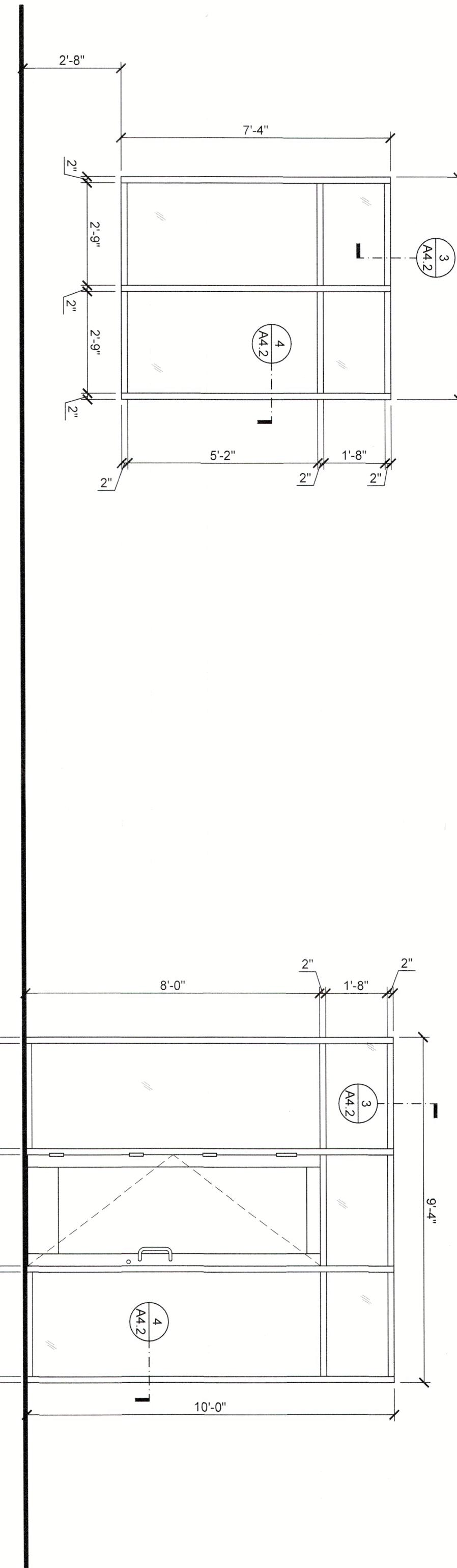
Jkind



BRISTA COMMONS, BUILDING TWO
3160 GULF OF MEXICO DRIVE
LONGBOAT KEY, FL

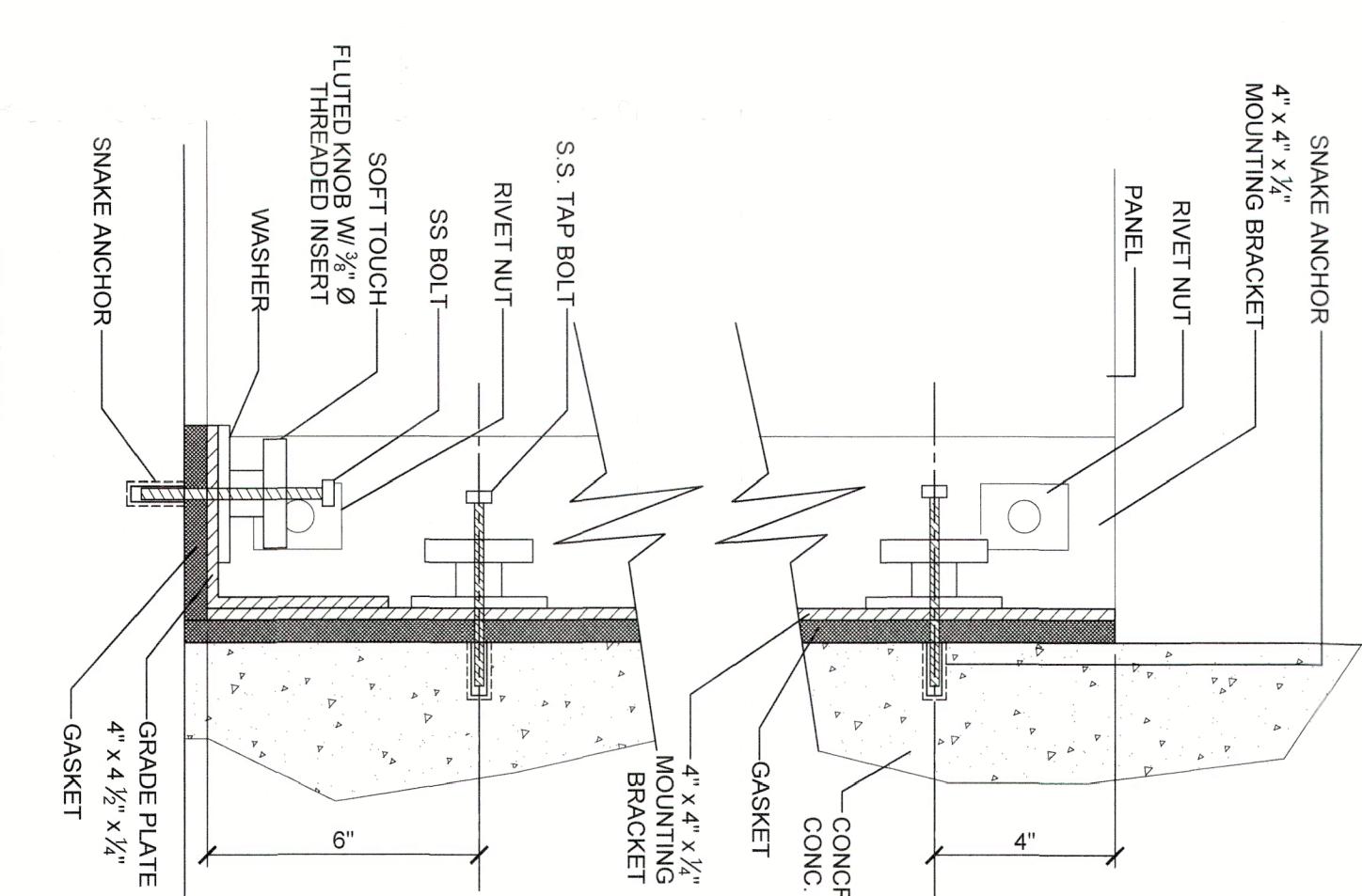
BRISTA
HOMES
1385 5th Street
Sarasota, FL 34236
(O) 941.465.0036

Jking
DESIGNS



STOREFRONT TYPE "A"
SCALE: 3/8" = 1'-0"

STOREFRONT TYPE "B"
SCALE: 3/8" = 1'-0"



SECTION #1
JAMB ANCHOR TO WALL
3/8" SCALE

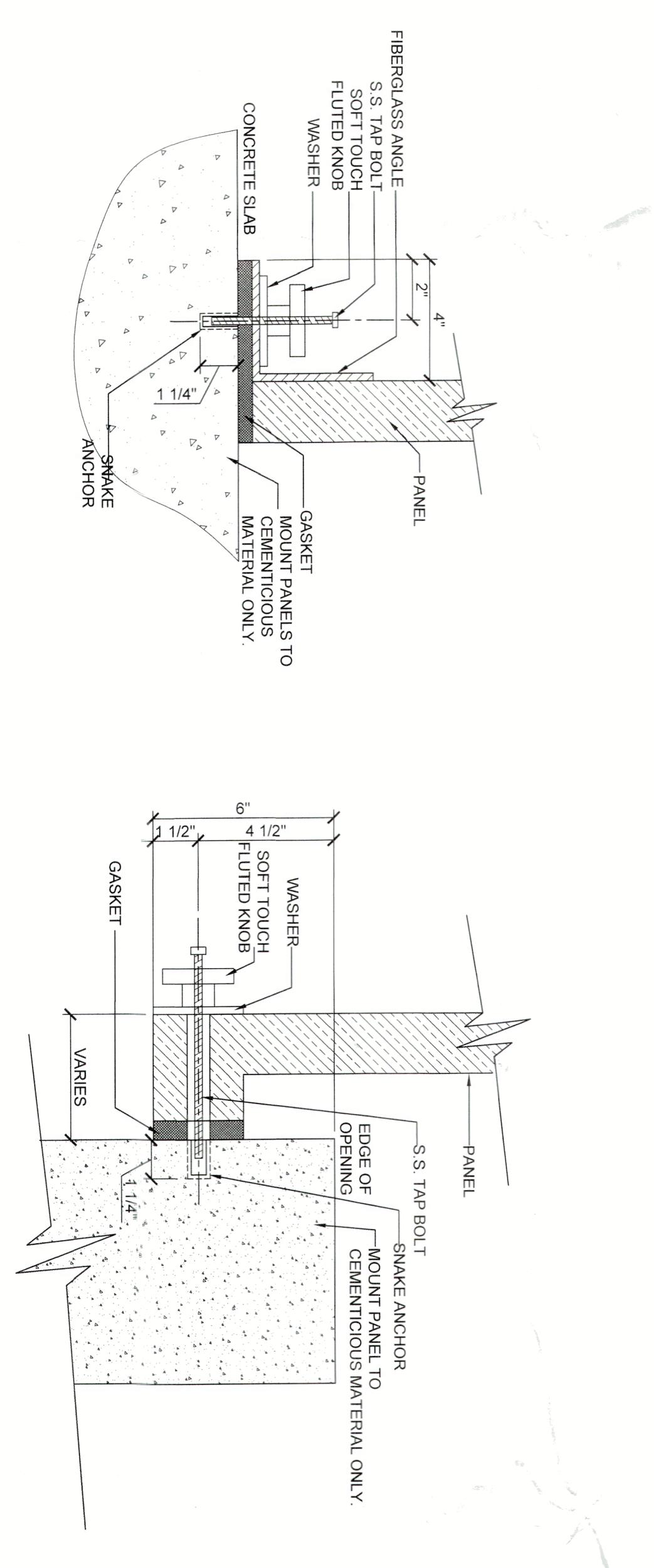
SECTION #2
PANEL TO JAMB ANCHOR
3/8" SCALE

SECTION #3
PANEL JAMB ANCHOR
3/8" SCALE

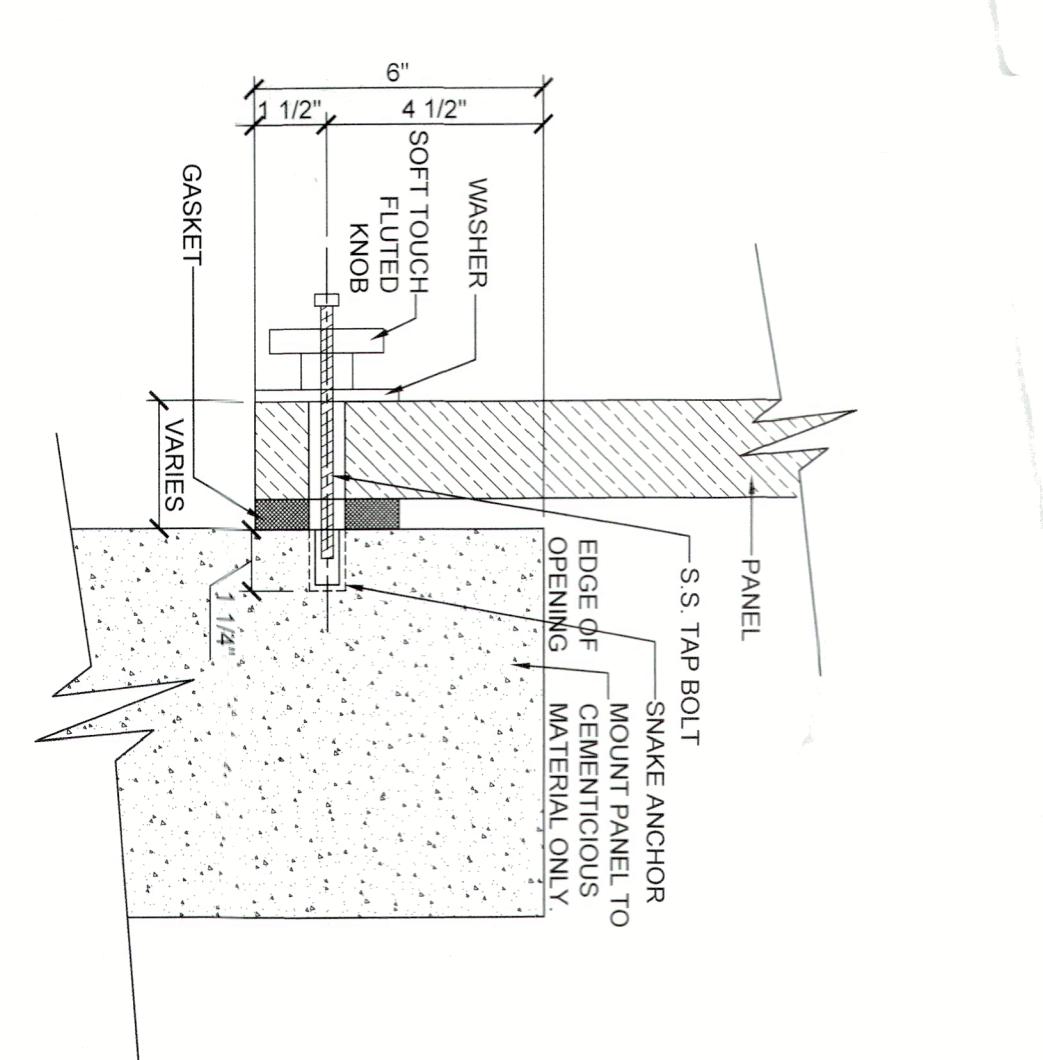
SECTION #4
PANEL TO CONCRETE SLAB
3/8" SCALE

SECTION #5
PANEL TO CONCRETE SLAB
3/8" SCALE

ALL DETAILS SHOWN ON THIS PAGE ARE PROVIDED
BY THE MANUFACTURER FOR REFERENCE ONLY.
REFER TO SHOP DRAWINGS PROVIDED BY
VENDOR/MANUFACTURER FOR FINAL SPEC AND
ATTACHMENT DETAILS. FINAL SHOP DRAWINGS
SUPERCEDE DETAILS SHOWN HEREIN.

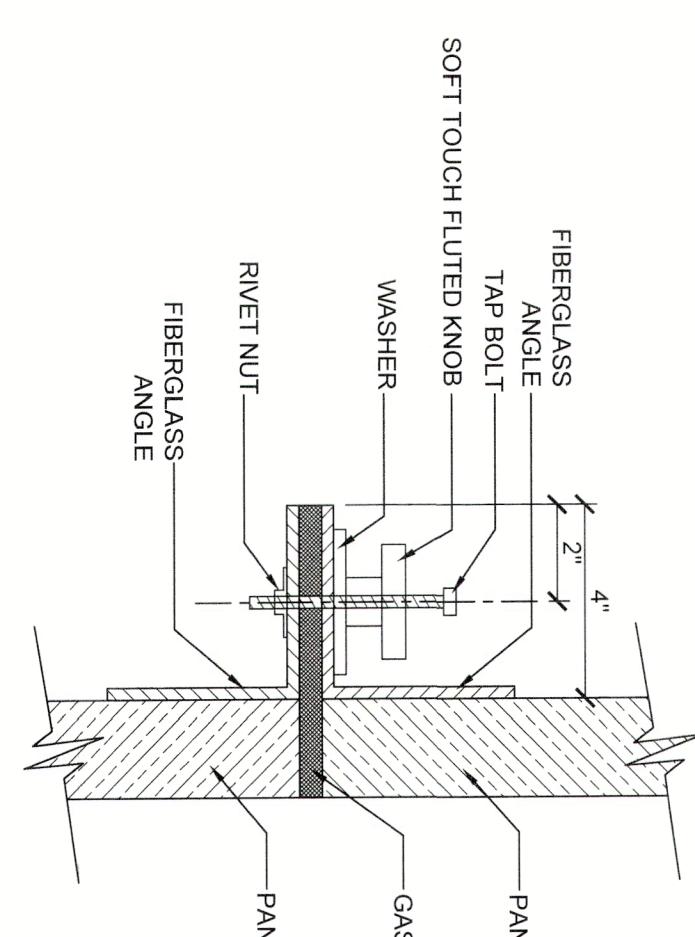


SECTION #1
CONNECTION DETAIL
SCALE: 3" = 1'-0"




SECTION #2
CONNECTION DETAIL
SCALE: 3" = 1'-0"

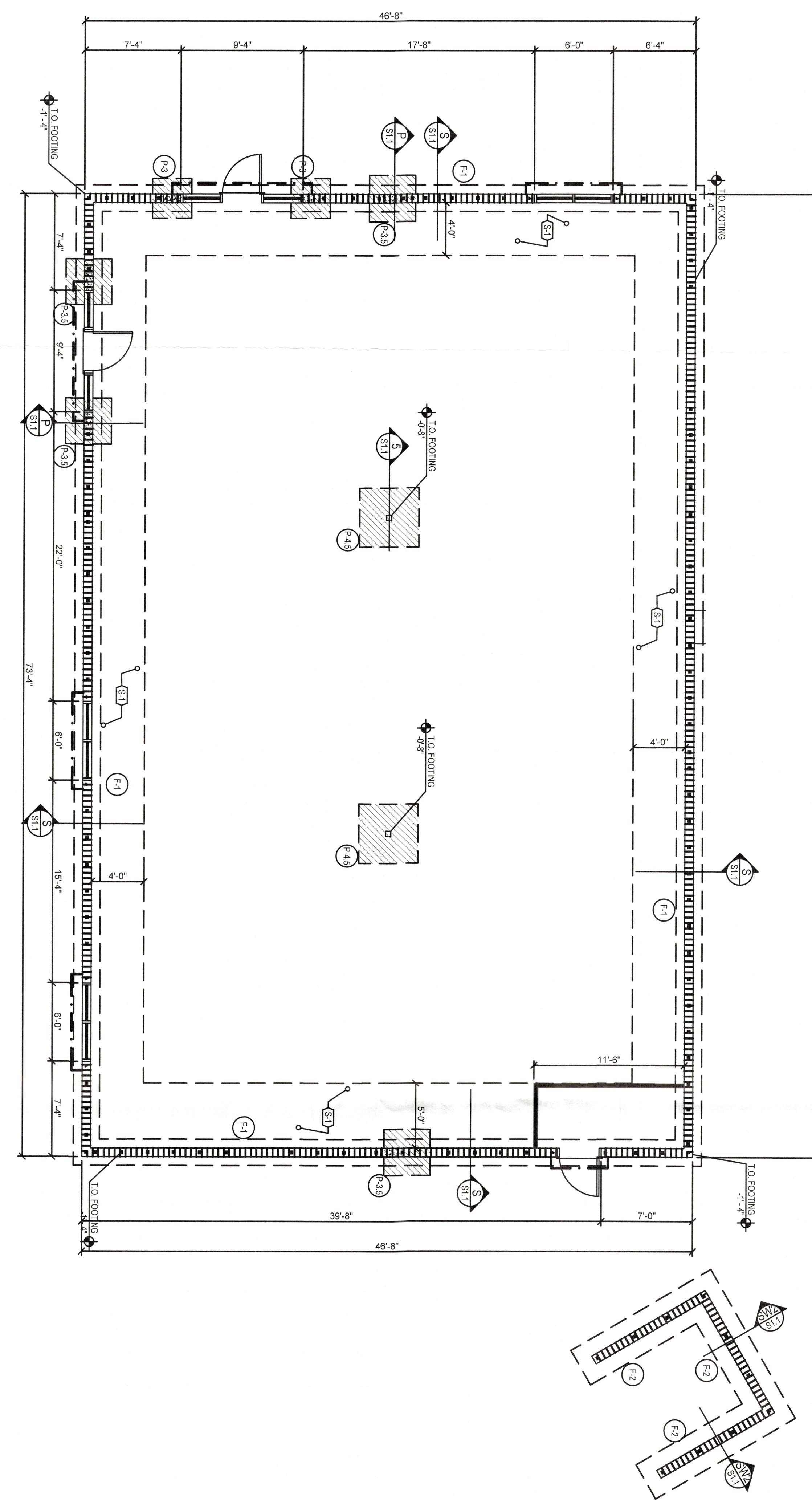
SECTION #3
CONNECTION DETAIL
SCALE: 3" = 1'-0"



SECTION #4
CONNECTION DETAIL
SCALE: 3" = 1'-0"

RECEIVED
JUN 25 1995
TOWN OF LONGBOAT KEY
Planning, Zoning & Building





DIMENSION NOTE

1. DO NOT SCALE FOOTING SIZE FROM PLAN.
2. ISOLATED PAD FOOTINGS AND MONOLITHIC FOOTINGS CAN BE POURED INTEGRALLY, BOTTOMS AT THE SAME ELEVATION.
3. MOISTURE PROTECTION BY OTHERS.
4. TOP OF ALL FOUNDATIONS SHALL BE A MINIMUM OF 6" BELOW ADJACENT GRADE / PAVERS / SLAB.
5. TOP OF GROUND FLOOR SLAB SET AT 0' - 0" (4.5' NAVD), ELEVATIONS SHOWN ARE RELATIVE TO THE GROUND FLOOR SLAB SURFACE.
6. CENTERLINES OF WALLS AND COLUMNS SHALL COINCIDE WITH CENTERLINES OF FOOTINGS AT ALL LOCATIONS, U.N.O.
7. SEE ARCH PLAN FOR EXACT LOCATIONS OF MASONRY WALL CONTROL JOINTS TO COORDINATE WITH VERTICAL STUCCO JOINTS. PROVIDE MASONRY CONTROL JOINTS PER MASONRY WALL CONTROL JOINT DETAIL ON S-1.1. WHERE CONTROL JOINT SPACING SHOWN IN ARCHITECTURAL DRAWINGS EXCEEDS LIMITS INDICATED IN TYPICAL DETAIL, PROVIDE (3) INTERMEDIATE KNOCK OUT COURSE TIE BEAMS WITH TOP OF BEAM ELEVATIONS AT 2' - 8", 6' - 8" AND 10' - 8". INTERMEDIATE TIE BEAMS SHALL EXTEND FROM CONTROL JOINT TO CONTROL JOINT WHERE SPACING AND LAYOUT LIMITS IDENTIFIED IN TYPICAL DETAIL ARE EXCEEDED. PROVIDE (1) #6 CONTINUOUS IN EACH GROUT FILLED KNOCK OUT COURSE TIE BEAM.
8. FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING. CONTRACTOR TO VERIFY PRIOR TO PLACEMENT OF FOUNDATION.

CONCRETE SLAB NOTES

DRAWINGS, BILL OF MATERIALS, AND MFG PLANS FOR ALL INFORMATION.

<p>1. SLAB ON GRADE: 4" CONCRETE SLAB - 3000 PSI W/ 6X6 - W1.4 X W 1.4 WWF AT MID-DEPTH OVER 6 MIL VAPOR BARRIER OVER MECHANICALLY COMPACTED FILL. TREAT SOIL FOR TERMITE POISONING PER FBC</p>
<p>2. CONTROL JOINTS: PROVIDE CONTROL JOINTS IN ALL SLABS ON GRADE. CONTROL JOINTS SHALL BE TOOLED OR SAWCUT AS SOON AS POSSIBLE WITHOUT RAVELING. THE PATTERN SHALL BE APPROXIMATELY SQUARE AND LIMITED TO AN AREA OF 144 SF.</p>
<p>3. REFER TO SHEET S4.0 'GENERAL NOTES' FOR COMPACTION REQUIREMENTS.</p>

STRICTURAL NOTE

WALL FOOTING SCHEDULE			
MARK	SIZE / TYPE	REINFORCING	REMARKS
F-1	12"H x 24"W STRIP FTG.	(3) #5s CONT.	REFER TO 4 COURSE DATA ON SHEET S1.1
F-2	12"H x 36"W STRIP FTG.	(5) #5s CONT. #5s AT 16" O.C. TRANS	REFER TO TYPICAL DETAIL SW2 ON SHEET S1.1

MARK	SIZE / TYPE	REINFORCING
WALL FLOORING SCHEDULE		

MARK	SIZE	REINFORCING	REMARKS
P-2	24" x 24" x 12" PAD	(3) #5s EACH WAY	REFER TO DETAIL ON SHEET S1.1.
P-2.5	30" x 30" x 12" PAD	(3) #5s EACH WAY	REFER TO DETAIL ON SHEET S1.1.
P-3	36" x 36" x 12" PAD	(5) #5s EACH WAY	REFER TO DETAIL ON SHEET S1.1.
P-3.5	42" x 42" x 12" PAD	(5) #5s EACH WAY	REFER TO DETAIL ON SHEET S1.1.
P-4	48" x 48" x 18" PAD	(6) #5s EACH WAY	REFER TO DETAIL ON SHEET S1.1.
P-4.5	54" x 54" x 18" PAD	(6) #5s EACH WAY	REFER TO DETAIL ON SHEET S1.1.

THESE DRAWINGS HAVE BEEN ELECTRONICALLY
SIGNED AND SEALED BY **STEPHEN E. HEDRICK II, P.E.**
USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS
DOCUMENT ARE NOT CONSIDERED SIGNED AND
SEALED. THE SIGNATURE MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.

DATE SEALED: 08.20.2

STEPHEN E. HEDRICK
LICENSE NO. 81830
FLORIDA
PROFESSIONAL ENGINEER
S. E. Hedrick

4 Stephen E Hedrick II
2024.08.20 16:21:20-04

THE STRUCTURAL SYSTEMS OF THE BUILDING IS DESIGNED, CONNECTED AND ANCHORED TO RESIST FLOTATION, COLLAPSE OR PERMANENT LATERAL MOVEMENT DUE TO STRUCTURAL LOADS AND STRESSES FROM FLOODING EQUAL TO THE DESIGN FLOOD ELEVATION.

THE STRUCTURAL SYSTEMS OF THE BUILDING IS DESIGNED, CONNECTED AND ANCHORED TO RESIST FLOTATION, COLLAPSE OR PERMANENT LINEAR MOVEMENT DUE TO STRUCTURAL LOADS AND STRESSES FROM FLOODING TO THE DESIGN FLOOD ELEVATION.

CONNECTED AND
FLOODING EQUAL
MATERIAL

STEPHEN E HEDRICK
LICEN\$E # 81830
No. 81830
FLORIDA
STATE OF
PROFESSIONAL ENGINEER
Stephen E Hedrick II
2024.08.20 16:21:20-04'00'

4

100

FOUNDATION PLAN

2/16" - 1" - 0"

A Custom Home for:
OUTPARCEL COMMERCIAL BUILDING TWO
3160 GULF OF MEXICO DRIVE, LONGBOAT KEY, FL

The logo for Young & Hedrick Engineering, LLC. It features a large, stylized 'YH' monogram where the 'Y' and 'H' are interconnected. To the right of the monogram, the words 'YOUNG & HEDRICK' are written in a large, bold, sans-serif font. A thin horizontal line runs across the page below the monogram and the company name. Below this line, the words 'STRUCTURAL ENGINEERING' are written in a smaller, all-caps, sans-serif font.

■ 6771 Professional Parkway West
Suite #201 - Lakewood Ranch, FL 34240

S1.0	10.20.20	NPM
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GENERAL NOTES

CONCRETE NOTES

STRUCTURAL STEEL

MASONRY

COLD-FORMED METAL

METAL DECK

1. FBC REFERS TO 2020 FLORIDA BUILDING CODE, 8TH EDITION.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR REFERENCES.
3. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE ERECTION OF THE WORK.
4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE BUILDING IS NOT SUBJECT TO EXCESSIVE LOADS. THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACINGS, GUY AND TOW DOWNS.

DESIGN LOADS AND NOTES

THE STRUCTURAL SYSTEM FOR THIS BUILDING IS DESIGNED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE, 8TH EDITION. THE FOLLOWING SUPERIMPOSED LOADS HAVE BEEN UTILIZED:

LIVE LOAD
DEAD LOAD (SUPERIMPOSED)
WIND:
- 16 MPH
- 10 MPH
- 12 MPH
- 14 MPH
- 16 MPH
- 18 MPH
- 20 MPH
- 25 MPH (RESIST UPLIFT)
- 8 PSF (RESIST UPLIFT)

ALLOWABLE WIND SPEED
EXPOSURE COEFFICIENT
RISK FACTOR

ROOF:
- 10 PSF
- 20 PSF
- 25 PSF
- 30 PSF
- 35 PSF
- 40 PSF
- 45 PSF
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POWER RISER KEY NOTES

(1) POWER COMPANY'S TRANSFORMER, PROVIDING THE BUILDING WITH 120/208 VOLT, 3 PHASE, 4-WIRE SERVICE

(2) TRANSFORMER GROUNDING BY POWER COMPANY.

(3) PROVIDE 1 #4 THHN COPPER GROUNDING ELECTRODE CONDUCTOR AND GROUNDS. SYSTEM GROUNDS SHALL BE BURIED 18" AHEAD OF THE MAN SWITCH AND SHALL BE CONNECTED TO TWO 5/8" x 10' COPPER EARTH GROUNDS. BURIED STEEL AND METAL COLD & HOT WATER PIPING, THE ELECTRICAL CONTRACTOR SHALL TEST THE GROUNDS. RESISTANCE OF THE GROUNDS SYSTEM WITH A MEGGER AND SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED TO OBTAIN A RESISTANCE OF 25 OHMS TO GROUND OR LESS. PROVIDE WRITTEN REPORT TO ENGINEER FOR APPROVAL.

(4) 225 AMP FEEDER - ONE 3" CONDUIT WITH THREE #300M THHN-2 AL ONE #300M THHN-2 AL NEUTRAL AND #4 THHN-2 CU EQUIPMENT GROUND.

(5) 225 AMP FEEDER - SERVICE ENTRANCE CONDUCTORS - 3" CONDUIT WITH THREE #300M THHN-2 AL AND ONE #300M THHN-2 AL NEUTRAL.

(6) NOT USED

(7) SEE PANEL SCHEDULE

(8) CONTRACTOR SHALL CONTACT POWER COMPANY WITHIN 10 DAYS OF AWARD OF CONTRACT TO OBTAIN THE EXACT CURRENT AND CIRCUIT INFORMATION FOR THE SERVICE. CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT OR MATERIALS CONTRACTOR SHALL ALSO NOTIFY POWER COMPANY PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT.

(9) SEE FAULT CURRENT PLACEMENT NOTES FOR FAULT CURRENT LABELING REQUIREMENTS AT MAIN ELECTRIC SERVICE DISCONNECT. PROVIDE PERMANENT LABEL WITH INFORMATION SHOWN.

(10) SEE "FAULT CURRENT PLACEMENT" NOTES FOR FAULT CURRENT LABELING REQUIREMENTS AT MAIN ELECTRIC SERVICE DISCONNECT OR SHOWN ON ACTUAL DRAWING AND MAKEABLE FAULT CURRENT INFORMATION TO ENGINEER PRIOR TO ORDERING ANY MATERIALS. THIS INFORMATION MUST BE PROVIDED TO ENGINEER PRIOR TO ORDERING ANY MATERIALS.

(11) THREE #6 CU THHN-2, ONE #10 CU THHN-2 EO GND, 1.25" CONDUIT

(12) 125 AMP FEEDER - ONE 2" CONDUIT WITH THREE #12/0 THHN-2 AL ONE #2/0 THHN-2 AL NEUTRAL AND 1 #6 THHN-2 CU EQUIPMENT GROUND.

(13) 100 AMP FEEDER - ONE 1.5" CONDUIT WITH THREE #1 THHN-2 AL ONE #1 THHN-2 AL NEUTRAL AND 1 #8 THHN-2 CU EQUIPMENT GROUND.

(14) ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE GND. SEE ARCHITECTURAL ELEVATIONS. ALL OVER-CURRENT PROTECTION AND SERVICE DISCONNECT SO'S SHALL BE INSTALLED SUCH THAT NO SWITCH HANDLE IS OVER 6'-7" ABOVE GND.

(15) SEE "FAULT CURRENT PLACEMENT" NOTES FOR FAULT CURRENT LABELING REQUIREMENTS AT MAIN ELECTRIC SERVICE DISCONNECT. PROVIDE PERMANENT LABEL WITH INFORMATION SHOWN.

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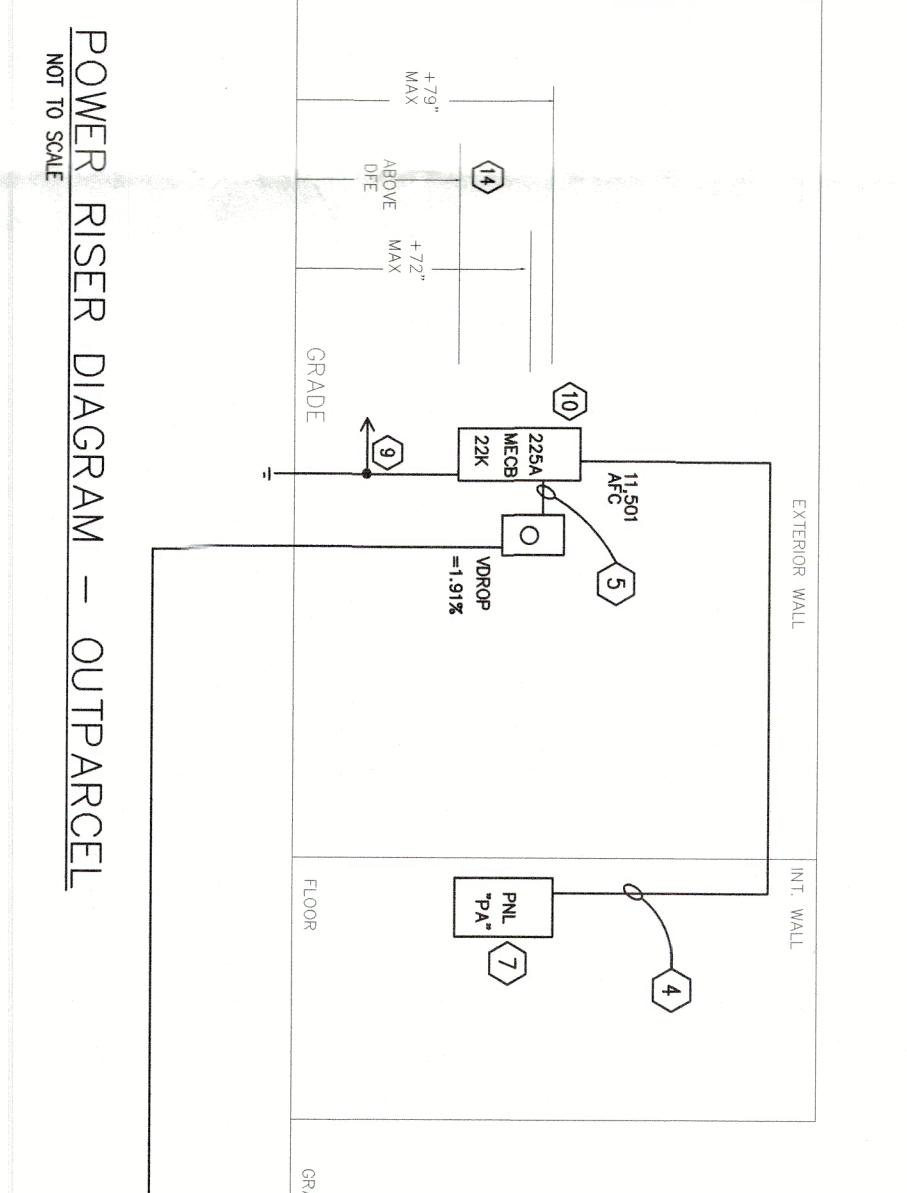
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FAULT CURRENT PLACEMENT (OUTPARCEL, DISC)	
AS A AVAILABLE FAULT CURRENT (AFC) AT TRANSFORMER'S ECONOMIC LOAD	100% OF PERMANENT LOAD OR MAIN SERVICE CONNECTED WITH THE COLUMNS

MAX. AS A AVAILABLE CURRENT: 591 AMPS (DUE TO CALCULATION 410%)

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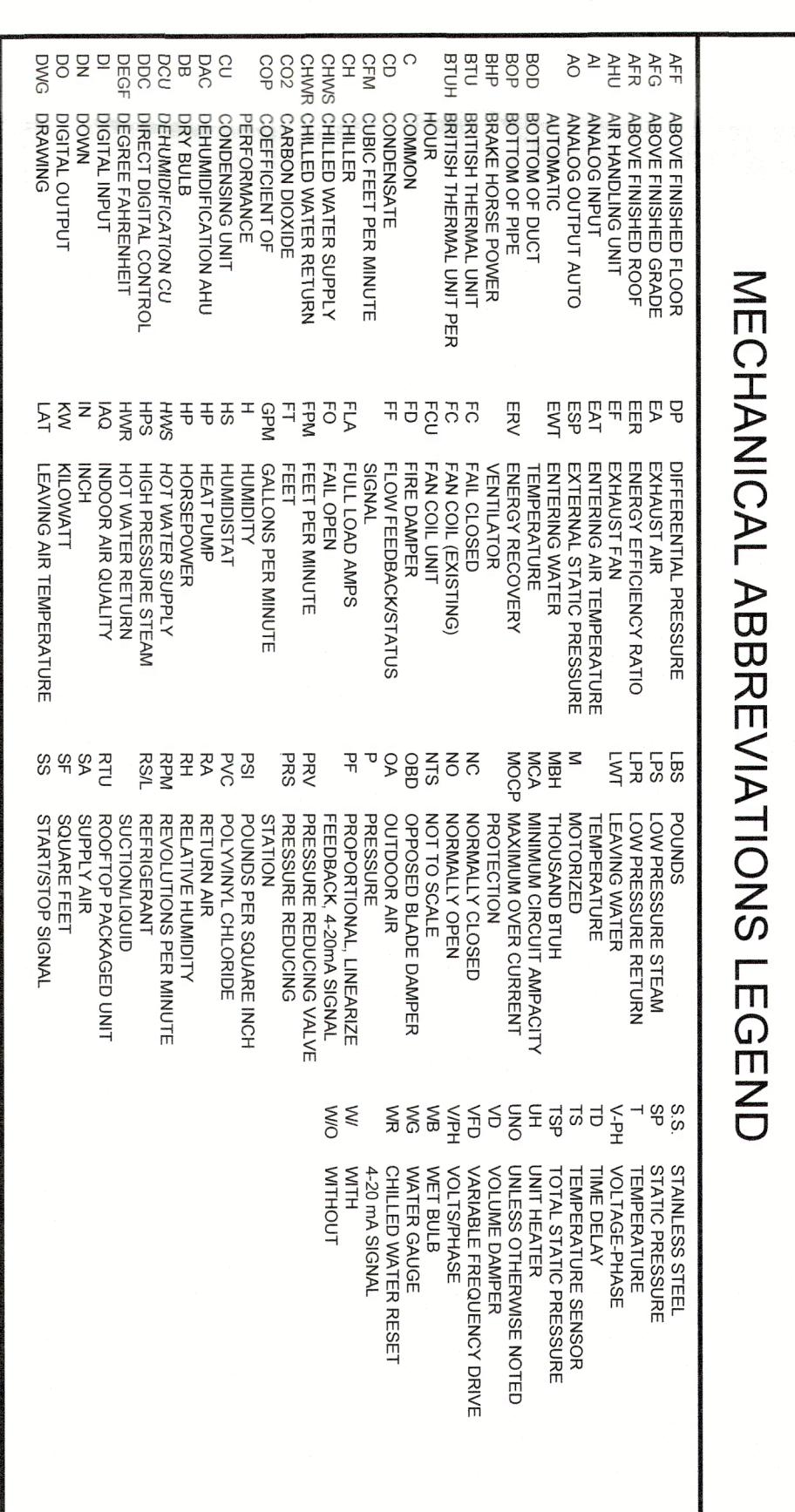
MAX. AS A AVAILABLE CURRENT: 591 AMPS (DUE TO CALCULATION 410%)

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VOLTAGE: 120/208V, 3P, 4W		NOTES: 1. ALL SPACES SHALL BE W/ BUS. 2. COPPER BUS, COPPER GROUND		PANEL:	PA	AMPS
PANEL TYPE:	NOOB	MONITORING:	3 BOLT-ON BREAKERS ONLY	MAIN:	225	AMPS
CKT #	CIRCUIT IDENTIFICATION	BRK. POLE	PH PH PH	POLE	BRK.	AMPS
1	ROOF	20	1 A B C	1 20	LED CONTROL	2
3	TWIST	20	1 A B C	1 20	LIGHTS	6
5	SPACE	1	A B C	1 20	EXT. BLDG. LTS.	8
7	SPACE	1	A B C	1 20	SPACE	12
9	SPACE	1	A B C	1 20	SPACE	16
11	SPACE	1	A B C	1 20	SPACE	18
13	SPACE	1	A B C	1 20	SPACE	20
15	SPACE	1	A B C	1 20	SPACE	22
17	SPACE	1	A B C	1 20	SPACE	25
19	SPACE	1	A B C	1 20	SPACE	28
21	SPACE	1	A B C	1 20	SPACE	30
23	SPACE	1	A B C	1 20	SPACE	32
25	SPACE	1	A B C	1 20	SPACE	35
27	SPACE	1	A B C	1 20	SPACE	38
29	SPACE	1	A B C	1 20	SPACE	40
31	SPACE	1	A B C	1 20	SPACE	42
33	SPACE	1	A B C	1 20	SPACE	45
35	SPACE	1	A B C	1 20	SPACE	48
37	SPACE	1	A B C	1 20	SPACE	50
39	SPACE	1	A B C	1 20	SPACE	52
41	SPACE	1	A B C	1 20	SPACE	55
CONNECTED KVA		1.56	1.50	1.00	2.34 AVG.	
(1) LIGHTING, 300 KW X 1.25 DEMAND FACTOR = 375 DEMAND LOAD						
(2) REFRIGERATORS, 3.0 KW X 0.90 DEMAND FACTOR = 2.70 DEMAND LOAD						
(3) H/VAC, 0.90 KW X 1.00 DEMAND FACTOR = 0.90 DEMAND LOAD						
(4) EQUIPMENT, 0.70 KW X 1.00 DEMAND FACTOR = 0.70 DEMAND LOAD						
(5) KITCHEN EQUIPMENT, 0.00 KW X 1.00 DEMAND FACTOR = 0.00 DEMAND LOAD						
(6) MISC, 4.5 KW X 1.00 DEMAND FACTOR = 4.50 DEMAND LOAD						
(7) LARGEST MOTOR, 5.00 KW X 0.8 DEMAND FACTOR = 4.00 DEMAND LOAD						
FUTURE (20%)						
TOTAL KVA						
208V/3-PHASE						
AMPS/PHASE:						
(D) SERVICE RATED FOR 225 AMPS/PHASE						
** HVAC LOAD CALCULATION (SQ/FEET OR 80% OF BREAKER RATING: 14 TONS/603 BREAKER KVA)						
2800 SQ FT X 1 TON/300 SQ. FT = 14 KW ASSUMING 60% OF BREAKER RATING						
AT 1 KW/TON = 16 KW						
AMPS/PHASE: 192						
(E) VOLTAGE: 208V/3-PHASE						
(F) AMPS/PHASE: 192						
(G) OCCUPANCY SENSOR TABLE						
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L46 L47 L48 L49 L50 L51 L52 L53 L54 L55 L56 L57 L58 L59 L60 L61 L62 L63 L64 L65 L66 L67 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L79 L80 L81 L82 L83 L84 L85 L86 L87 L88 L89 L89 L90 L91 L92 L93 L94 L95 L96 L97 L98 L99 L99 L100 L101 L102 L103 L104 L105 L106 L107 L108 L109 L109 L110 L111 L112 L113 L114 L115 L116 L117 L118 L119 L119 L120 L121 L122 L123 L124 L125 L126 L127 L128 L129 L129 L130 L131 L132 L133 L134 L135 L136 L137 L138 L139 L139 L140 L141 L142 L143 L144 L145 L146 L147 L148 L149 L149 L150 L151 L152 L153 L154 L155 L156 L157 L158 L159 L159 L160 L161 L162 L163 L164 L165 L166 L167 L168 L169 L169 L170 L171 L172 L173 L174 L175 L176 L177 L178 L178 L179 L179 L180 L181 L182 L183 L184 L185 L186 L187 L188 L188 L189 L189 L190 L191 L192 L193 L194 L195 L196 L197 L198 L198 L199 L199 L200 L201 L202 L203 L204 L205 L206 L207 L208 L209 L209 L210 L211 L212 L213 L214 L215 L216 L217 L218 L219 L219 L220 L221 L222 L223 L224 L225 L226 L227 L228 L229 L229 L230 L231 L232 L233 L234 L235 L236 L237 L238 L239 L239 L240 L241 L242 L243 L244 L245 L246 L247 L248 L249 L249 L250 L251 L252 L253 L254 L255 L256 L257 L258 L259 L259 L260 L261 L262 L263 L264 L265 L266 L267 L268 L269 L269 L270 L271 L272 L273 L274 L275 L276 L277 L278 L278 L279 L279 L280 L281 L282 L283 L284 L285 L286 L287 L287 L288 L288 L289 L289 L290 L291 L292 L293 L294 L294 L295 L295 L296 L297 L298 L298 L299 L299 L300 L301 L302 L303 L304 L305 L306 L307 L308 L309 L309 L310 L311 L312 L313 L314 L315 L316 L317 L318 L319 L319 L320 L321 L322 L323 L324 L325 L326 L327 L328 L329 L329 L330 L331 L332 L333 L334 L335 L336 L337 L338 L339 L339 L340 L341 L342 L343 L344 L345 L346 L347 L348 L349 L349 L350 L351 L352 L353 L354 L355 L356 L357 L358 L359 L359 L360 L361 L362 L363 L364 L365 L366 L367 L368 L369 L369 L370 L371 L372 L373 L374 L375 L376 L377 L378 L378 L379 L379 L380 L381 L382 L383 L384 L385 L386 L387 L387 L388 L388 L389 L389 L390 L391 L392 L393 L394 L394 L395 L395 L396 L397 L398 L398 L399 L399 L400 L399 L400 L401 L402 L403 L404 L405 L406 L407 L408 L409 L409 L410 L411 L412 L413 L414 L415 L416 L417 L418 L419 L419 L420 L421 L422 L423 L424 L425 L426 L427 L428 L429 L429 L430 L431 L432 L433 L434 L435 L436 L437 L438 L439 L439 L440 L441 L442 L443 L444 L445 L446 L447 L448 L449 L449 L450 L451 L452 L453 L454 L455 L456 L457 L458 L459 L459 L460 L461 L462 L463 L464 L465 L466 L467 L468 L469 L469 L470 L471 L472 L473 L474 L475 L476 L477 L478 L478 L479 L479 L480 L481 L482 L483 L484 L485 L486 L487 L487 L488 L488 L489 L489 L490 L491 L492 L493 L494 L494 L495 L495 L496 L497 L498 L498 L499 L499 L500 L499 L500 L501 L502 L503 L504 L505 L506 L507 L508 L509 L509 L510 L511 L512 L513 L514 L515 L516 L517 L518 L519 L519 L520 L521 L522 L523 L524 L525 L526 L527 L528 L529 L529 L530 L531 L532 L533 L534 L535 L536 L537 L538 L539 L539 L540 L541 L542 L543 L544 L545 L546 L547 L548 L549 L549 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L718 L719 L719 L720 L721 L722 L723 L724 L725 L726 L727 L728 L729 L729 L730 L731 L732 L733 L734 L735 L736 L737 L738 L739 L739 L740 L741 L742 L743 L744 L745 L746 L747 L748 L749 L749 L750 L751 L752 L753 L754 L755 L756 L757 L758 L759 L759 L760 L761 L762 L763 L764 L765 L766 L767 L768 L769 L769 L770 L771 L772 L773 L774 L775 L776 L777 L778 L778 L779 L779 L780 L781 L782 L783 L784 L785 L786 L787 L787 L788 L788 L789 L789 L790 L791 L792 L793 L794 L794 L795 L795 L796 L797 L798 L798 L799 L799 L800 L799 L800 L801 L802 L803 L804 L805 L806 L807 L808 L809 L809 L810 L811 L812 L813 L814 L815 L816 L817 L818 L819 L819 L820 L821 L822 L823 L824 L825 L826 L827 L828 L829 L829 L830 L831 L832 L833 L834 L835 L836 L837 L838 L839 L839 L840 L841 L842 L843 L844 L845 L846 L847 L848 L849 L849 L850 L851 L852 L853 L854 L855 L856 L857 L858 L859 L859 L860 L861 L862 L863 L864 L865 L866 L867 L868 L869 L869 L870 L871 L872 L873 L874 L875 L876 L877 L878 L878 L879 L879 L880 L881 L882 L883 L884 L885 L886 L887 L887 L888 L888 L889 L889 L890 L891 L892 L893 L894 L894 L895 L895 L896 L897 L898 L898 L899 L899 L900 L899 L900 L901 L902 L903 L904 L905 L906 L907 L908 L909 L909 L910 L911 L912 L913 L914 L915 L916 L917 L918 L919 L919 L920 L921 L922 L923 L924 L925 L926 L927 L928 L929 L929 L930 L931 L932 L933 L934 L935 L936 L937 L938 L939 L939 L940 L941 L942 L943 L944 L945 L946 L947 L948 L949 L949 L950 L951 L952 L953 L954 L955 L956 L957 L958 L959 L959 L960 L961 L962 L963 L964 L965 L966 L967 L968 L969 L969 L970 L971 L972 L973 L974 L975 L9						

NPDES

NPDES



NPDES

No.	Drawing Title
FSP-1	Cover Sheet
FSP-2	General Notes
FSP-3	Existing Conditions and ESC Plan
FSP-4 - FSP-5	Erosion and Sediment Control Plan Details
FSP-6	Final Site Plan
FSP-7	Drainage and Grading Plan
FSP-8	Utilities Plan
FSP-9	Signage and Marking Plan
FSP-10	Cross Sections
FSP-11	Site Details
FSP-12 - FSP-13	Drainage and Grading Details
FSP-14	Water Details
FSP-15	Sanitary Details
LP-1 - LP-2	Site Lighting Plan and Details

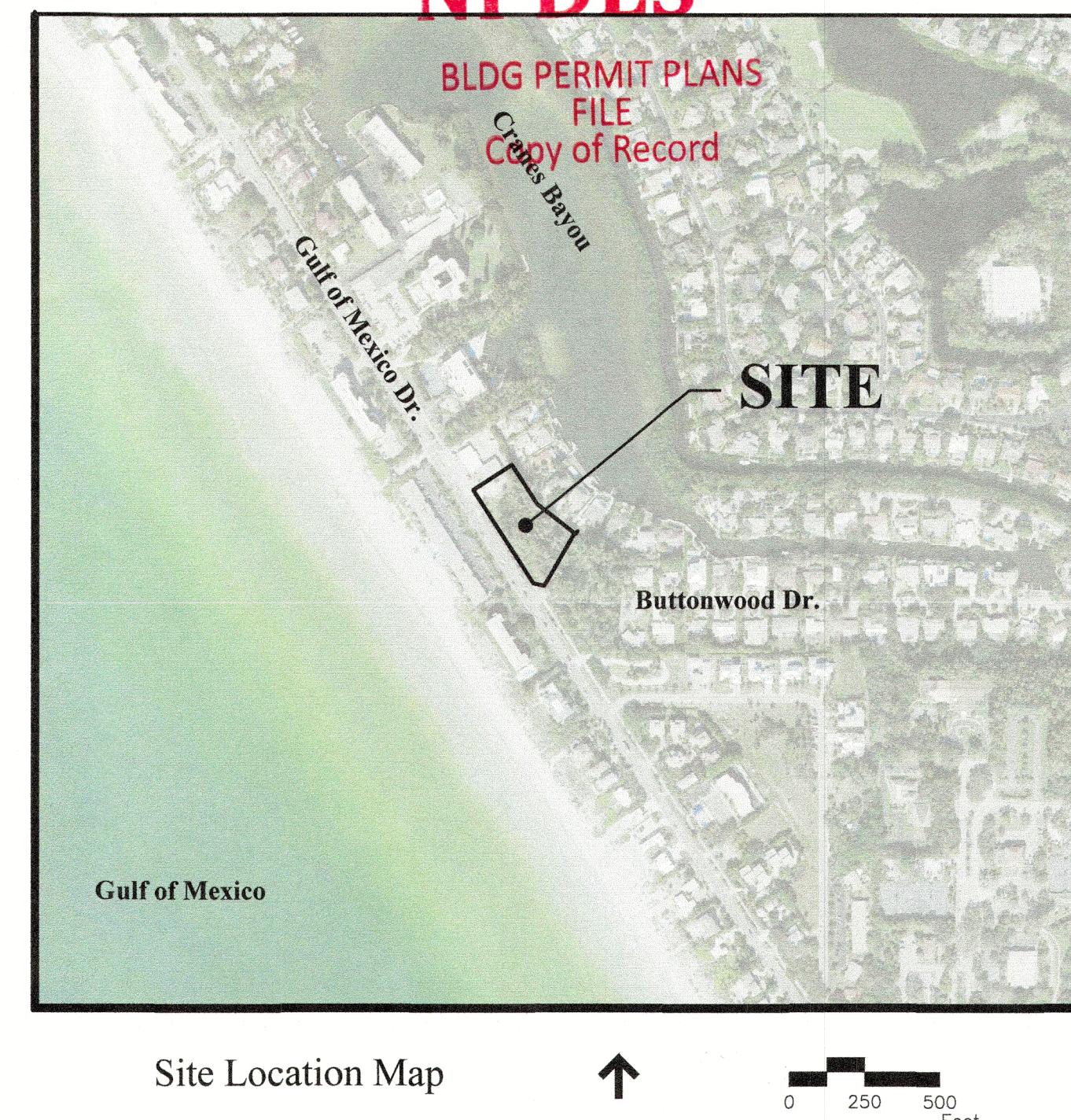
Final Site Plan and Construction Plan

For

Brista Homes

Section 7, Township 36 South, Range 17 East
Town of Longboat Key, Florida

SR: PL789 - Section: 17030000 - MP: 7.676-7.590



Site Location Map

0 250 500
Feet

Owner/Applicant:
Brista Homes
597 Buttonwood Drive
Longboat Key, Florida 34240

Engineer: Steve Shroyer, P.E.
Shroyer Drapala Engineering, LLC
1111 3rd Ave. W., Suite 210
Bradenton, Florida 34205
Phone (941) 746-4000

Surveyor: James B. Amberger
Jim Amberger Land Surveying, LLC
1055 South Tamiami Trail, Suite 110-B
Sarasota, Florida 34236
Phone (941) 955-6333

Architect: Justin King
JKing Designs
1383 5th St
Sarasota, FL 34236
Phone (941) 465-0036

Landscaping: Robert C. Gause
Gause & Associates, Inc.
323 10th Ave. W., Suite 102
Palmetto, Florida 34221
Phone (941) 713-0782

Legal Description:

COMMENCE AT THE 4" X 4" CONCRETE PERMANENT REFERENCE MONUMENT OF LAND SURVEYOR #1195 LOCATED AT THE SOUTHWEST CORNER OF U.S. GOVERNMENT LOT 1, SECTION 7 T36S-R17E, LONGBOAT KEY, SARASOTA COUNTY, FLORIDA; THENCE N 0'11"45" W, 191.82'; THENCE S 89'48"15" W, 815.36' TO THE INTERSECTION OF THE NORTH RIGHT OF WAY LINE OF BUTTONWOOD DRIVE AND THE CENTERLINE OF THE PRIVATE ROAD KNOWN AS WINSLOW PLACE, AS SHOWN ON THE UNRECORDED PLAT OF BUTTONWOOD HARBOUR SECTION NO. 2 O.R. BOOK 302, PAGE 51, ET SEQ., PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA, FOR A POINT OF BEGINNING; THENCE CONTINUE S 89'48"15" W, ALONG THE NORTH RIGHT OF WAY LINE OF SAID BUTTONWOOD DRIVE, 10.00' TO A 4" X 4" CONCRETE MONUMENT ON THE WEST RIGHT OF WAY LINE OF THE PRIVATE ROAD KNOWN AS WINSLOW PLACE; THENCE CONTINUE ALONG SAID NORTH RIGHT OF WAY LINE OF BUTTONWOOD DRIVE ALONG A NONTANGENTIAL CURVE TO THE RIGHT OF RADIUS 1208.28' CENTRAL ANGLE 11'44"07", ARC LENGTH 247.48', CHORD LENGTH 247.05', CHORD BEARING N 84'13"08" W, TO A 4" X 4" CONCRETE MONUMENT AT THE SOUTHWEST CORNER OF SAID BUTTONWOOD HARBOUR SECTION NO. 2; THENCE CONTINUE ALONG SAID NORTH RIGHT OF WAY LINE OF BUTTONWOOD DRIVE ALONG SAID CURVE TO THE RIGHT OF RADIUS 1208.28' CENTRAL ANGLE OF 1'44"25", ARC LENGTH 36.70', CHORD LENGTH 36.70, CHORD BEARING N 77'28"48" W; TO THE NORTHEASTERLY RIGHT OF WAY LINE OF THE 100' IN WIDTH GULF OF MEXICO DRIVE; THENCE N 32'56"54" W, ALONG SAID NORTHEASTERLY RIGH OF WAY LINE 366.70' TO THE NORTHWESTERLY LINE OF LOT 3, BLOCK 8, REVISED PLAT OF BLOCKS 1, 2, 3, 5, 10, 11, 12, 14, 15 & 16, LONGBOAT SHORES, PLAT BOOK 3, PAGE 49, PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA; THENCE NO 56'58"01" E, ALONG SAID NORTHWESTERLY LINE OF LOT 3, WHICH LINE PASSES ALONG THE SOUTHEASTERLY WALL OF THE EXISTING MASONRY BUILDING SITuate ON LOT 4 OF SAID BUTTONWOOD HARBOUR SECTION NO. 2; THENCE S 32'56"54" E ALONG SAID SOUTHWESTERLY LINE OF BUTTONWOOD HARBOUR SECTION NO. 2, 148.42' TO A 4" X 4" CONCRETE MONUMENT ON THE CORNER OF SAID SUBDIVISION; THENCE CONTINUE S 32'56"54" E ALONG THE BOUNDARY COMMON TO THE LANDS DESCRIBED IN O.R. BOOK 893, PAGE 787, ET SEQ., AND THE LANDS DESCRIBED IN O.R. 893, PAGE 789, ET SEQ., PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA. 4.08'; THENCE CONTINUE ALONG SAID COMMON BOUNDARY S 51'39"15" E, 157.39' TO A 4" X 4" CONCRETE MONUemtn AT THE CORNER OF BUTTONWOOD HARBOUR SECTION NO. 2; THENCE CONTINUE ALONG SAID COMMON BOUNDARY S 75'14"25" E, 5.18' TO THE WESTERLY CORNER OF THE PRIVATE ROAD RIGHT OF WAY KNOWN AS WINSLOW PLACE; THENCE N 29'47"09" E ALONG THE SOUTHEASTERLY LINE OF THE BUFFER ZONE AND SOUTHEASTERLY LINE OF LOT 6 AS SHOWN ON THE UNRECORDED PLAT OF BUTTONWOOD PLACE SECTION NO. 2, 10.35'; THENCE S 75'14"32" E, ALONG THE CENTERLINE OF THE PRIVATE ROAD KNOWN AS WINSLOW PLACE, 150.82'; THENCE S 0'11"45" E, ALONG THE CENTERLINE OF SAID WINSLOW PLACE, 167.45' TO THE POINT OF THE BEGINNING.
LESS THEREFROM ANY PORTIONS OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 893, PAGE 789 LYING WITHIN THE ABOVE DESCRIBED PARCEL

NPDES

Permit # PB 24-0936
REVIEWED FOR CODE COMPLIANCE
LONGBOAT KEY BUILDING DEPT.

AUG 28 2024

APPROVED
Ned S. Drapala
PE, MEP

BLDG PERMIT PLANS

FILE
Copy of Record

Site Data

SITE ACREAGE:	1.38 AC.±
PROPOSED BUILDING AREA:	14,408 SF
MAXIMUM FLOOR AREA RATIO:	0.30
PROPOSED FLOOR AREA RATIO:	14,408/60,112 = 0.24
EXISTING ZONING:	C-1 (LIMITED COMMERCIAL)
FUTURE LAND USE:	CL
OPEN SPACE REQUIRED:	0.276 AC. (20%)
OPEN SPACE PROVIDED:	0.39 AC. (.28%)
MAX. BLDG. HEIGHT:	30 FT
FLOOD ZONE:	"AE10 & AE11" 12115C 0107 F, DATED NOVEMBER 04, 2016

Construction Schedule

START DATE:	SEPT 2024
END DATE:	JULY 2025
ALL BUILDING PERMITS WILL BE ISSUED PRIOR TO THE EXPIRATION OF THE CLOS OR FSP, WHICHEVER OCCURS FIRST.	

Parking Data

GENERAL PARKING REQUIRED:	14,408/300 = 49 SPA. (4 ADA)
IF 4 DIFFERENT USES:	14,408/400 = 37 SPA. (3 ADA)
PROPOSED PARKING:	43 SPA. (4 ADA)
OFFICE = 1/300 SF, MEDICAL & DENTAL = 1/200 SF, RESTAURANTS = 1/150 SF	

Setback and Buffer Requirements

SETBACKS:	
FRONT	20'
SIDE	15'
REAR	20'
PERIMETER BUFFER:	10'
MIN. ROADWAY BUFFER OPEN SPACE:	400.25' x 20' = 8,005 SF x 0.70 = 5,603 SF
ROADWAY BUFFER OPEN SPACE PROVIDED:	5,665 SF (71%)

Shroyer Drapala
Engineering, LLC

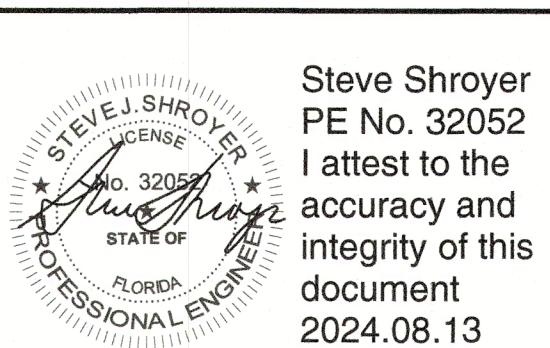
608 6th St W, Palmetto FL 34221

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AUG 28 2024
TOWN OF LONGBOAT KEY
Planning, Zoning & Building

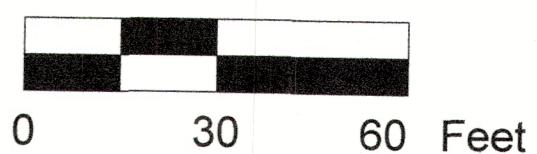
BLDG PERMIT PLANS
FILE
Brista Homes
Submitted For:

Town of Longboat Key
Approval



Steve Shroyer
PE No. 32052
I attest to the
accuracy and
integrity of this
document
2024.08.13

NPDES



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Design By: Drawn By: Checked By:
JEC TMF JEC
Drawing Scale: Drawing Date:
1" = 30' 1/20/22

Existing Conditions and ESC Plan

For
Brista Homes

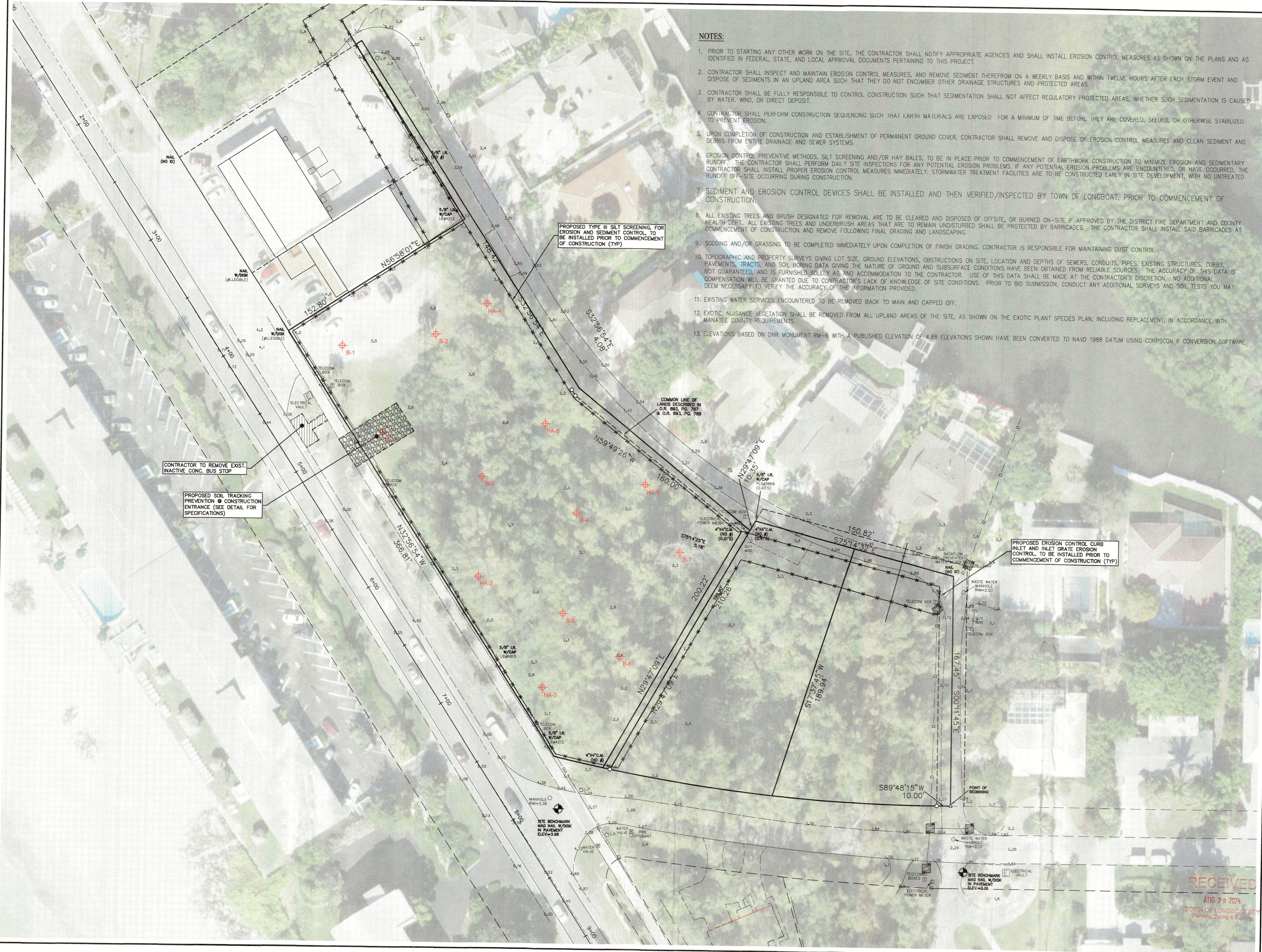
Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida

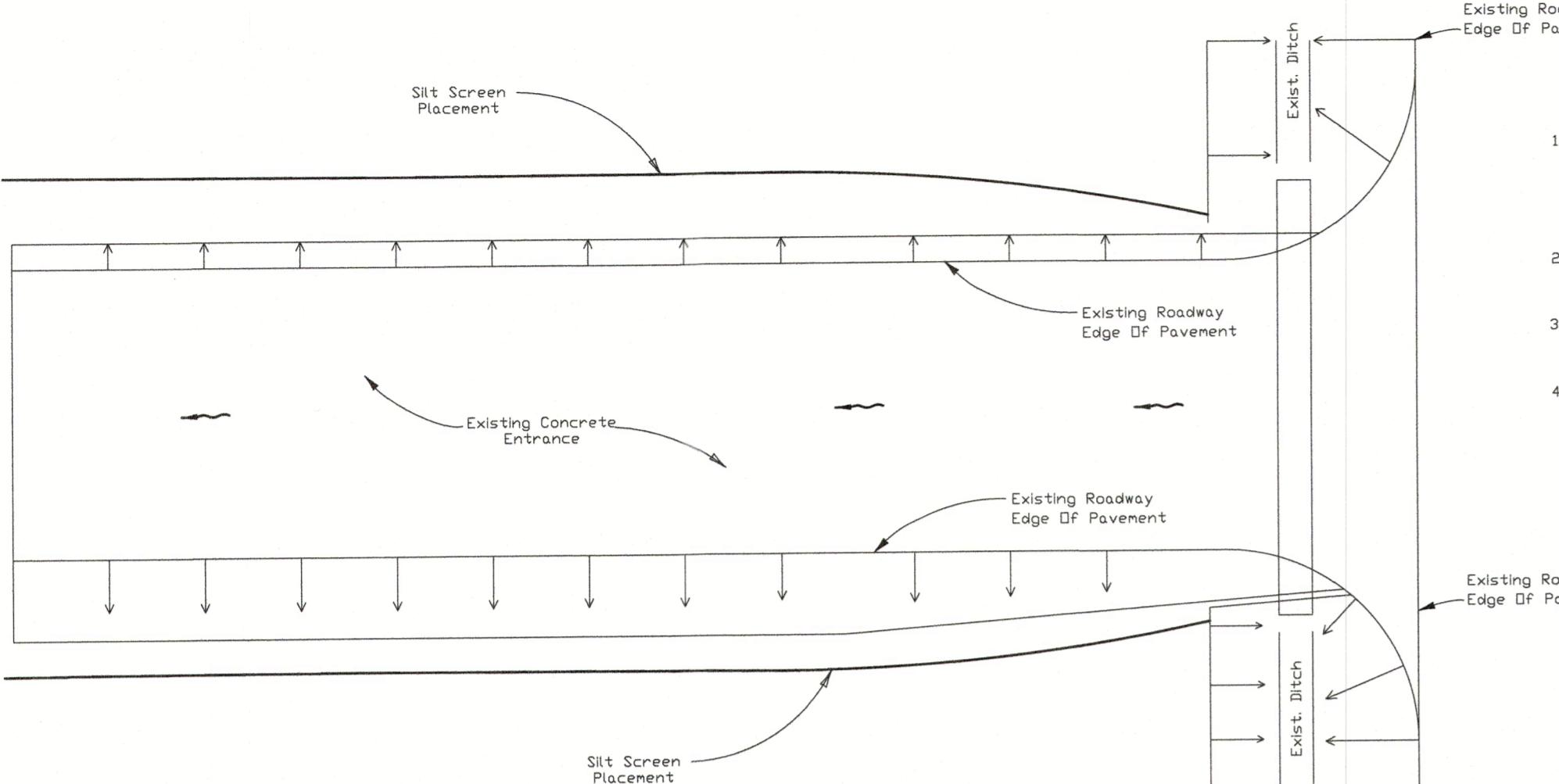
FSP-3



Steve Shroyer
PE No. 32052
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accuracy and
integrity of this
document
2024.08.13

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Planning, Zoning & Building



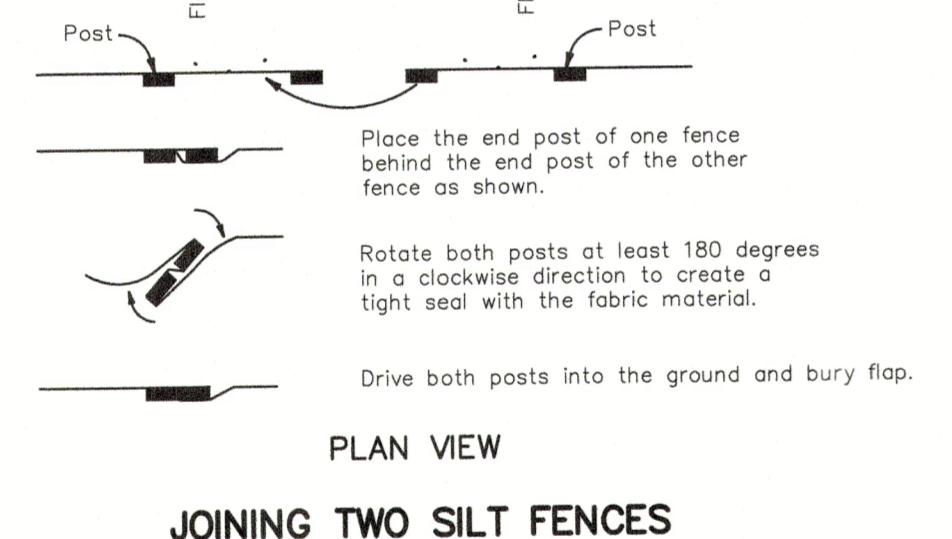


Soil Tracking Prevention

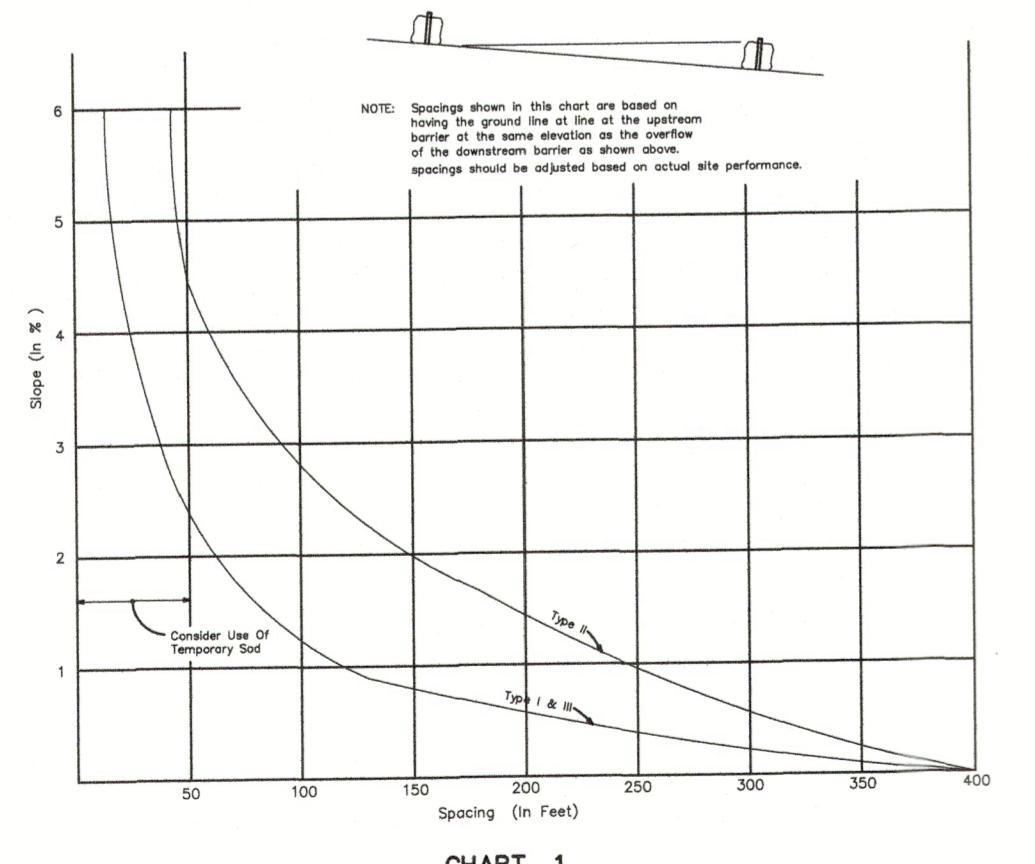
N.T.S.

Source: FDOT Index No. 106

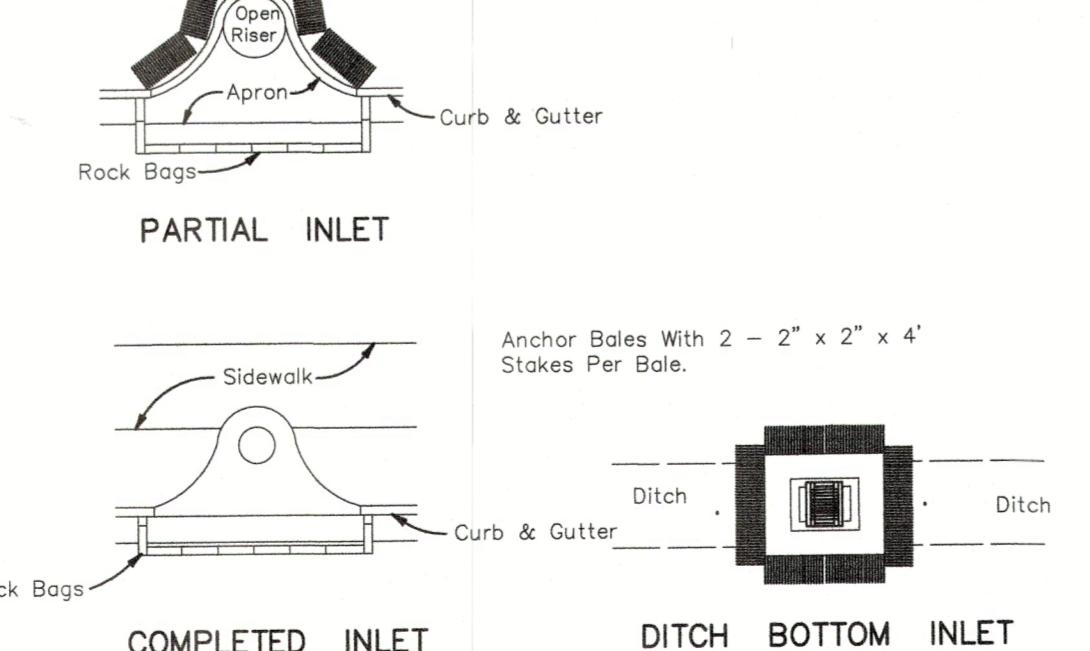
PLEASE REFER TO FSP 3 FOR
ADDITIONAL EROSION AND
SEDIMENT CONTROL PLAN &
DETAILS



JOINING TWO SILT FENCES



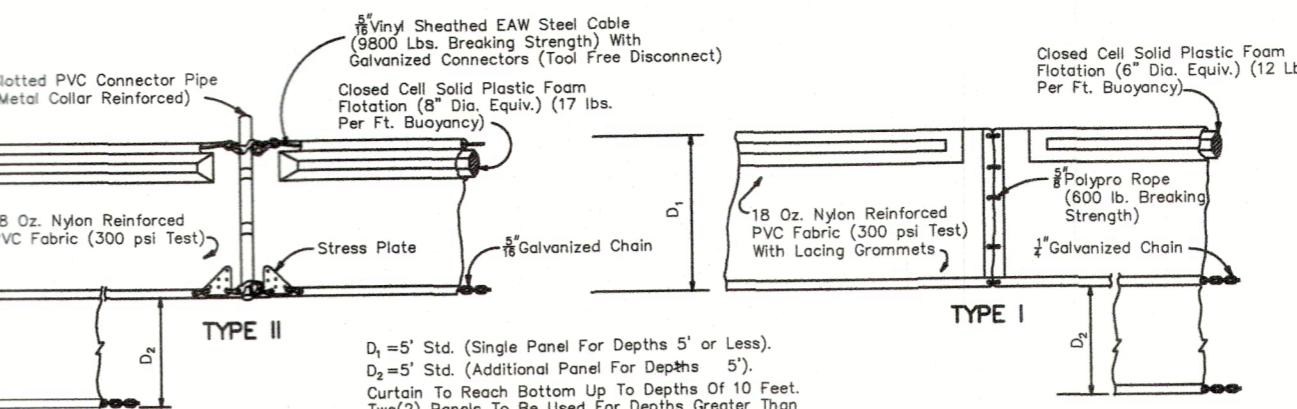
DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



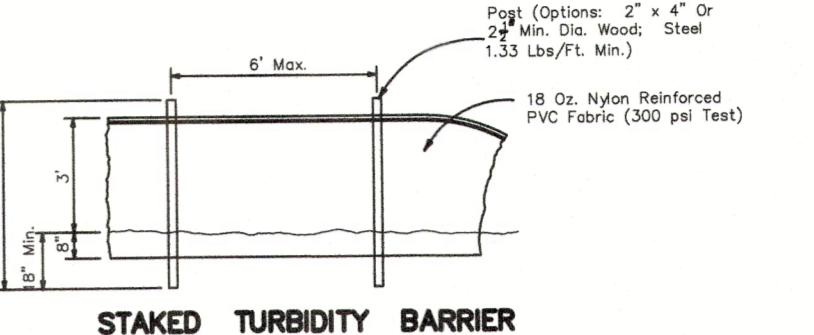
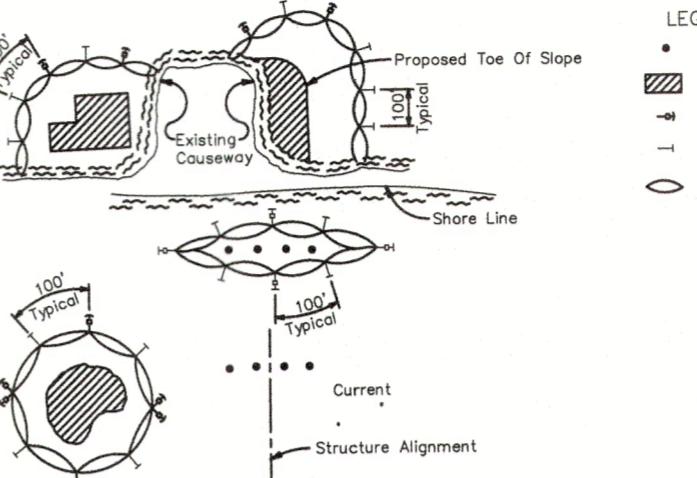
Temporary Erosion and Sediment Control

N.T.S.

Source: FDOT Index No. 103



FLOATING TURBIDITY BARRIERS



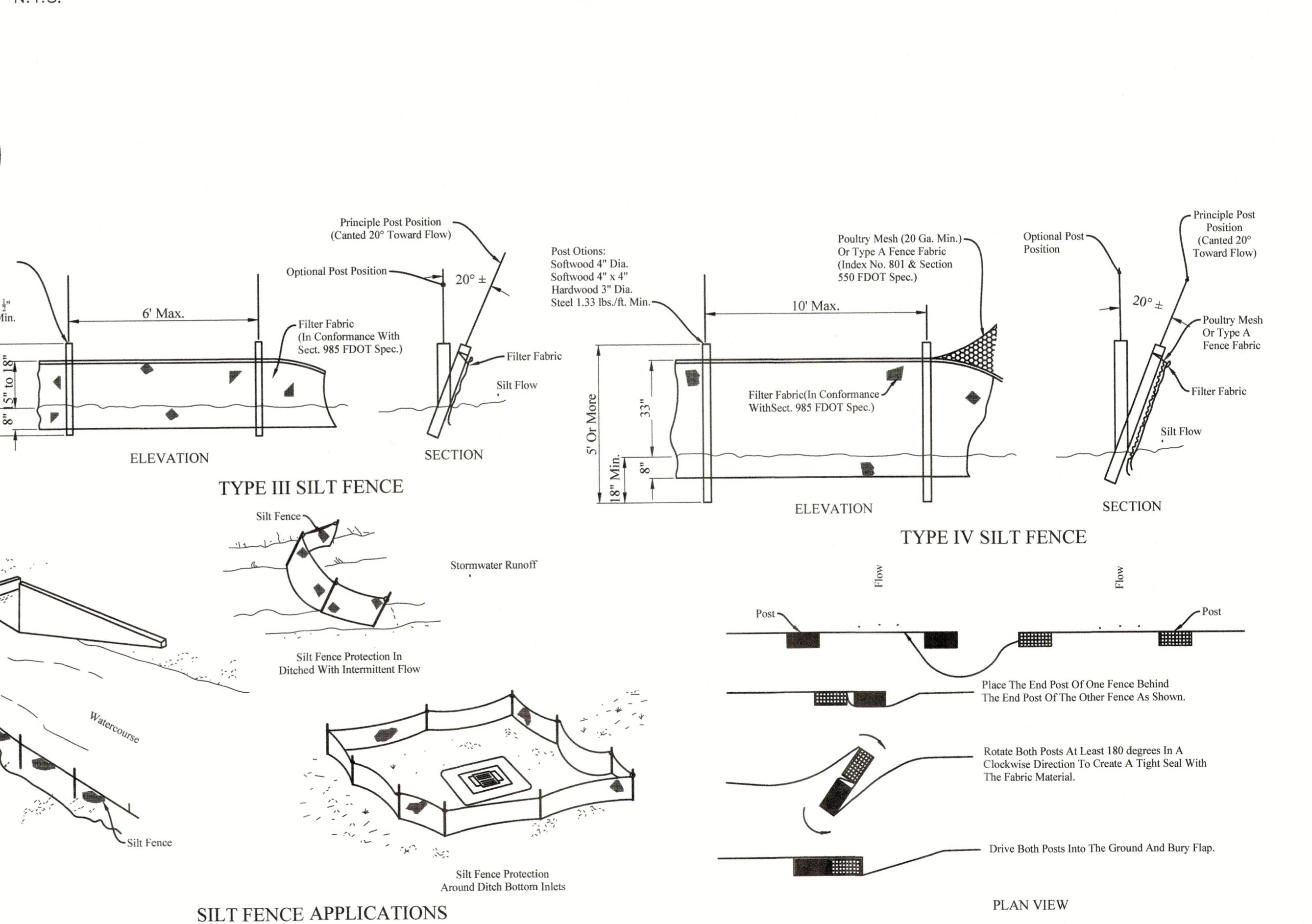
1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

TURBIDITY BARRIER APPLICATIONS

Turbidity Barriers

N.T.S.

Source: FDOT Index No. 103



NOTES FOR SILT FENCES

1. Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt fence shall be in accordance with Chart 1, Sheet 1.
2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travel lanes or off the right of way.
3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
4. Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
5. Silt Fence to be paid for under the contract unit price for Sediment Barrier, (LF).

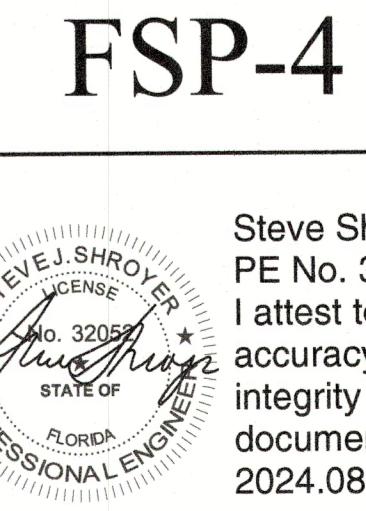
Type III and Type IV Temporary Erosion and Sediment Control

N.T.S.

Source: FDOT Index No. 102

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Planning, Zoning & Building

01/01/10



FSP-4

ESC Plan Details
For
Brista Homes

Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida

Submitted For:

EROSION AND SEDIMENT CONTROL PLAN

Project Name: Brista Homes
 MC Number: 22600
 SDE Project Number: 22600

Pursuant to Section 508.3.4.7.j. of the Land Development Code (LDC) states Prior to commencement of construction activities authorized with final site plan and construction plan approvals pursuant to the Code, the developer shall be required to submit an Erosion and Sediment Control Plan (ESCP) to the EMD for review and approval. The plan shall identify construction sequencing, Best Management Practices (BMPs) to minimize erosion and sedimentation and to manage the quality and quantity of stormwater runoff during and after construction, and other practices employed to minimize fugitive particulate emissions during and after construction. Generally, project that are greater than five (5) acres and smaller projects with major land disturbances, (i.e., stockpiling, excavation of oversized lakes, filling of lots, etc.) are subject to this requirement. Redevelopment projects or projects with minor improvements may not be subject to this requirement. The EMD Director or designee may, at his/her discretion, waive this requirement on a case by case basis. The ESCP shall at a minimum include the following information:

The required information for the ESCP is as follows (additional material and information may be required pursuant to Section 508.3.4.7.k.):

Item	Description	Response/Location
1.	Details of construction sequencing, dewatering activities and sump locations, stockpile areas and/or deposition areas for excavation materials.	The project will be constructed completely from start to finish. Please refer to the "General Notes" and "Demolition & Erosion and Control Plan", for more detail.
a.	Description of land clearing/disturbing activities, existing site conditions and adjacent land uses/areas that might be affected by land clearing/disturbances.	Please refer to the "Demolition & Erosion and Control Plan" for more detail.
b.	Identification of stockpile areas and/or deposition areas for excavated materials.	Please refer to the "General Notes" and "Demolition & Erosion and Control Plan".
c.	Description of potential onsite problem areas such as steep grade changes, highly erodible soils, areas adjacent to wetlands, surface waters, or upland preservation areas.	The existing offsite conditions shall be protected by silt screen and turbidity barriers, as identified on the "Demolition & Erosion and Control Plan".
d.	Construction scheduling, including the expected starting and stabilization dates.	Expected start date: March 2021 Expected end date: March 2023
e.	Identification of disturbed areas where construction will not be ongoing, and final grade will not be achieved within fourteen (14) days, and an indication of temporary stabilization measures.	Construction, following commencement, will be completed without interruption.
2.	Details of Best Management Practices and Fugitive Particulate Abatement Methods.	Please refer to the details on "General Notes" and "Demolition & Erosion and Control Plan"
a.	Details, drawings and cross-sections of erosion and sediment control devices, if different from the approved Final Site Plan/Construction Plans, and when they will be installed.	Please refer to the "Demolition & Erosion and Control Plan" and "Erosion and Sediment Control Details".
b.	Maintenance program for erosion and sediment control devices including inspection frequency and maintenance activities.	Please refer to the "Demolition & Erosion and Control Plan" and the details on "General Notes", sheet FSP 2, for more information. Please note that the contractor will be responsible for any site inspections and report forms one a week and within 24 hours of a storm event, as specified on sheet FSP 2.
c.	Haul routes and details of apron stabilization at ingress/egress points to rights-of-way.	Please refer to the "Demolition & Erosion and Control Plan" and "Erosion and Sediment Control Details".
d.	Details/location of equipment washing area.	Equipment to be washed onsite, within existing stormwater management basins and away from any wetlands or other areas where direct runoff is not advisable.
e.	Contractor information, including a 24-hour, 7-day contact and phone numbers.	Information will be provided when contractor is chosen.
3.	Details of dewatering activities and locations, drawings and cross-sections of dewatering sumps.	Please refer to the "Demolition & Erosion and Control Plan" and "Erosion and Sediment Control Details".
		Acknowledged.
4.	<p>Water Quality Monitoring Plan and monitoring stations (if applicable). The developer shall be responsible for scheduling an onsite meeting with staff from the Environmental Management and Project Management Departments, the Engineer of Record and the Contractor. Final approval of the ESCP and authorization of construction will be granted only after an onsite meeting has been conducted. necessary revisions, as determined by EMD staff, shall be made prior to final approval of the ESCP.</p> <p>Any changes to the approved ESCP must be submitted to the EMD by the Engineer of Record for review and approval prior to implementation. Changes that qualify as an amendment to the final site plan and/or construction plans must be approved by the Planning Department prior to implementation.</p> <p>Prior to scheduling the onsite meeting the developer shall:</p> <ol style="list-style-type: none"> 1. Obtain all applicable approvals (Final Site Plan, Construction Plans, Environmental Resource Permit and NPDES Permit). 2. Stake the boundaries of the wetland buffers, upland preservation areas or other environmentally sensitive areas, as indicated on the approved Final Site Plan/Construction Plans. 3. Stake all silt screen locations every one hundred (100) feet, as indicated on the approved Final Site Plan/Construction Plans. 	

Design By: JEC Drawn By: TMF Checked By: JEC
 Drawing Scale: N.T.S. Drawing Date: 1/20/22

ESC Plan Details
For
Brista Homes

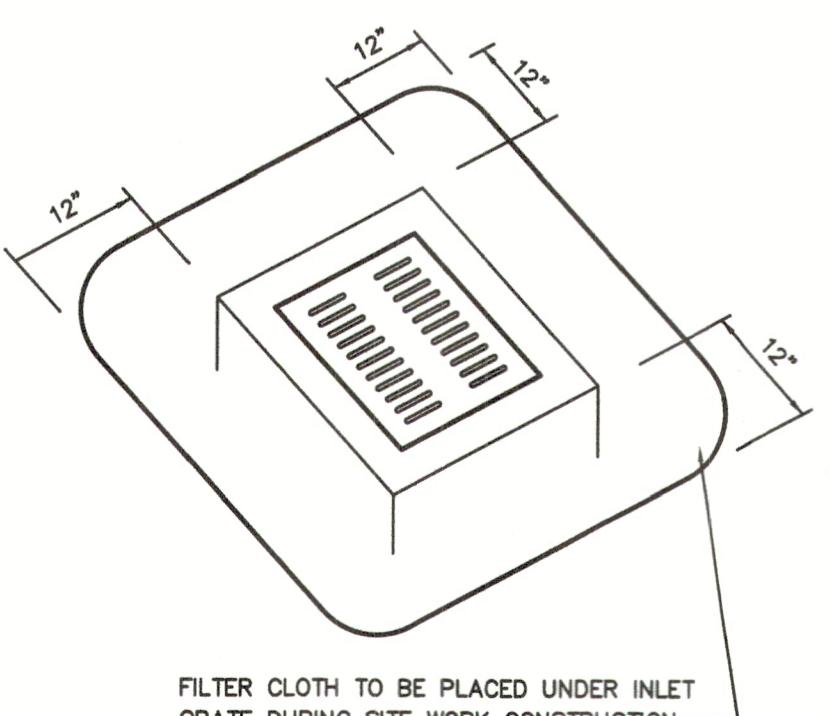
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Town of Longboat Key, Florida

FSP-5

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Planning, Zoning & Building

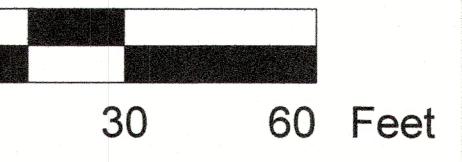
Steve Shroyer
 PE No. 32052
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 accuracy and
 integrity of this
 document
 2024.08.13



Inlet Debris Control Screen

N.T.S.

Submitted For:



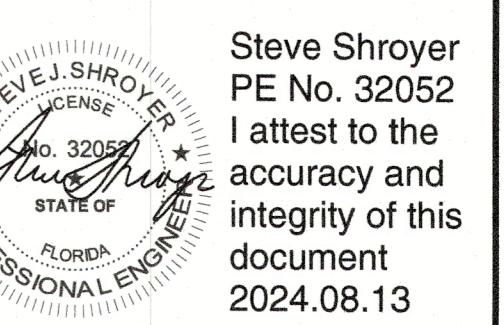
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Design By: Drawn By: Checked By:
 JEC TMF JEC
 Drawing Scale: Drawing Date:
 1" = 30' 1/20/22

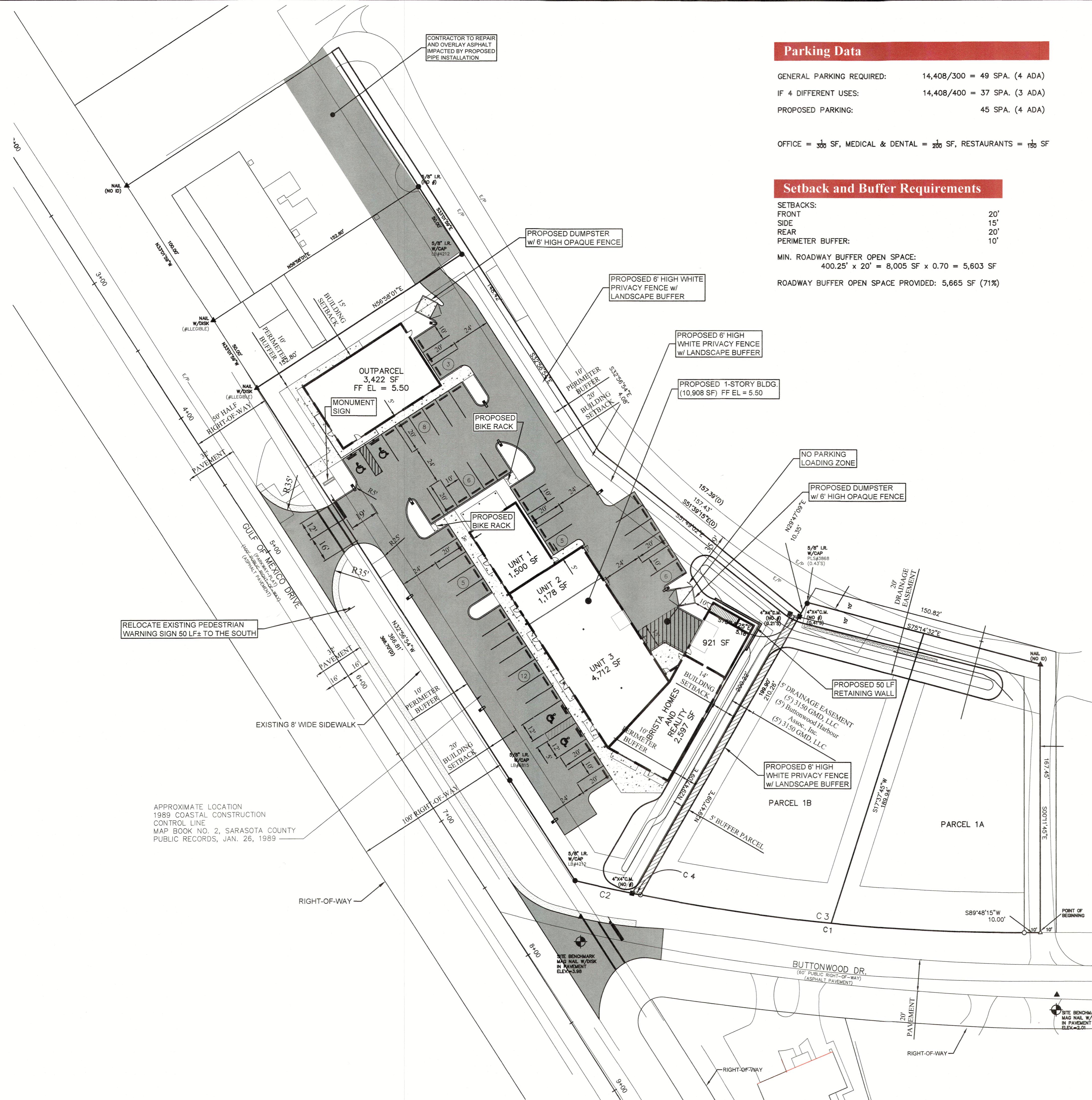
Final Site Plan
 For
 Brista Homes
 Section 7, Township 36 S, Range 17 E
 Town of Longboat Key, Florida

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TOWN OF LONGBOAT KEY
Planning, Zoning & Building


 STEVE J. SHROYER
 PE No. 32059
 LICENSE
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

Steve Shroyer
 I attest to the
 accuracy and
 integrity of this
 document
 2024.08.13



Submitted For:

Legend

Proposed

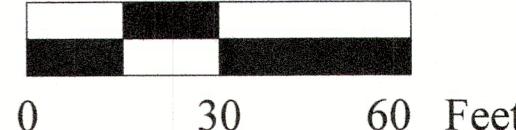
- Proposed Asphalt Open Cut Limits
- Proposed Concrete Overlay Limits
- Proposed Water Line (DR-18 & SDR-21)
- Proposed Fire Line (DR-14)
- Proposed Fire Service (DR-14)
- Proposed Water Shut-Off
- Proposed Gate Valve (GV)
- Proposed Sanitary Service
- Proposed Sanitary Cleanout (CO)

Existing

- Existing Water Service
- Existing Fire Line
- Existing Fire Hydrant
- Existing Water Meter
- Existing Backflow Preventer (BFP)
- Existing Water Service
- Existing Gate Valve (GV)
- Existing Sanitary Service
- Existing Sanitary Cleanout (CO)

NOTES:

- EXISTING WATER SERVICES ENCOUNTERED OR INTERFERING WITH PROPOSED CONSTRUCTION, TO BE REMOVED BACK TO MAIN AND CAPPED OFF, AT THE TOWN INSPECTOR'S DISCRETION.
- THE SIZE AND CONDITION OF THE EXISTING SEWER LATERAL SHALL BE VERIFIED WITH THE TOWN INSPECTOR, PRIOR TO CONSTRUCTION OF ANY SEWER SERVICE LINES ON THE SITE. IF THE EXISTING SEWER SERVICE IS LESS THAN 6-INCH OR THE CONDITION OF THE SERVICE IS NOT ACCEPTABLE TO THE TOWN INSPECTOR, A NEW SEWER SERVICE SHALL BE CONSTRUCTED. PAVEMENT REFORMATION WILL BE REVISED IN ACCORDANCE WITH ANY SEWER SERVICE CONSTRUCTION.
- THE LOCATION OF UTILITIES, FOUNDATIONS OR STRUCTURES, ABOVE OR BEHIND THE SURFACE, IF ANY, HAS NOT BEEN DETERMINED.
- BEARINGS BASED ON THE NORTHEASTERLY R/W LINE OF GULF OF MEXICO DRIVE HAVING A BEARING PF N32°56'54"W PER DEED.
- ELEVATIONS BASED ON DNR MONUMENT RM-6 WITH PUBLISHED ELEVATION OF 4.8. ELEVATIONS SHOWN HAVE BEEN CONVERTED TO NAVD 1988 DATUM USING CORPSCON 6 CONVERSION SOFTWARE.



Design By: Drawn By: Checked By:
JEC TMF JEC

Drawing Scale: Drawing Date:
1" = 30' 1/20/22

Utilities Plan
For
Brista Homes

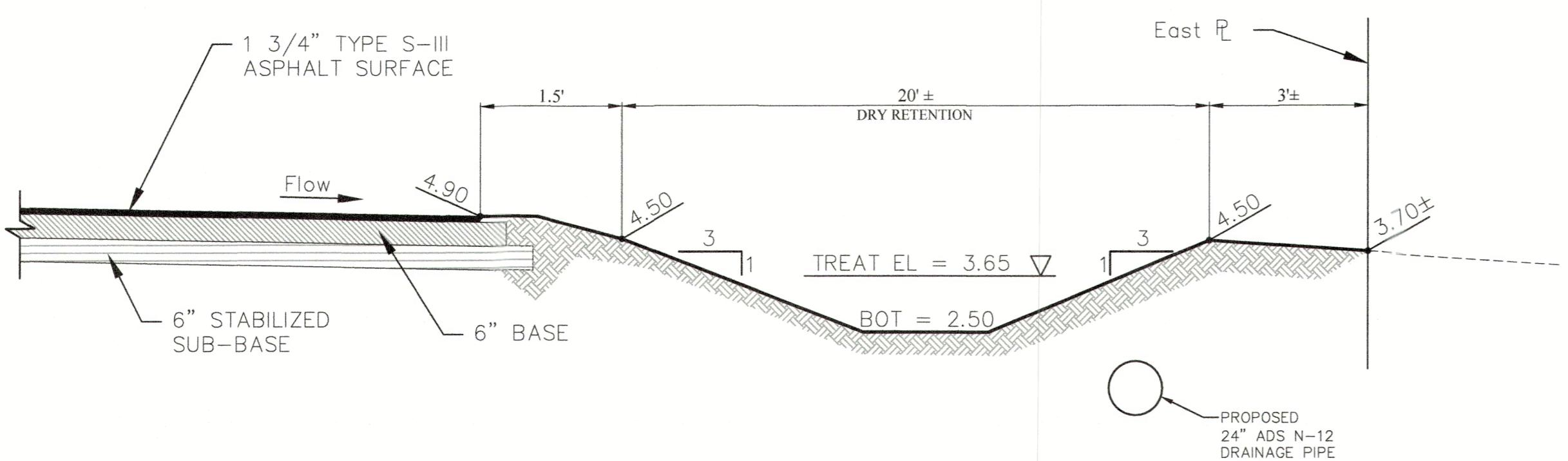
Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida

FSP-8

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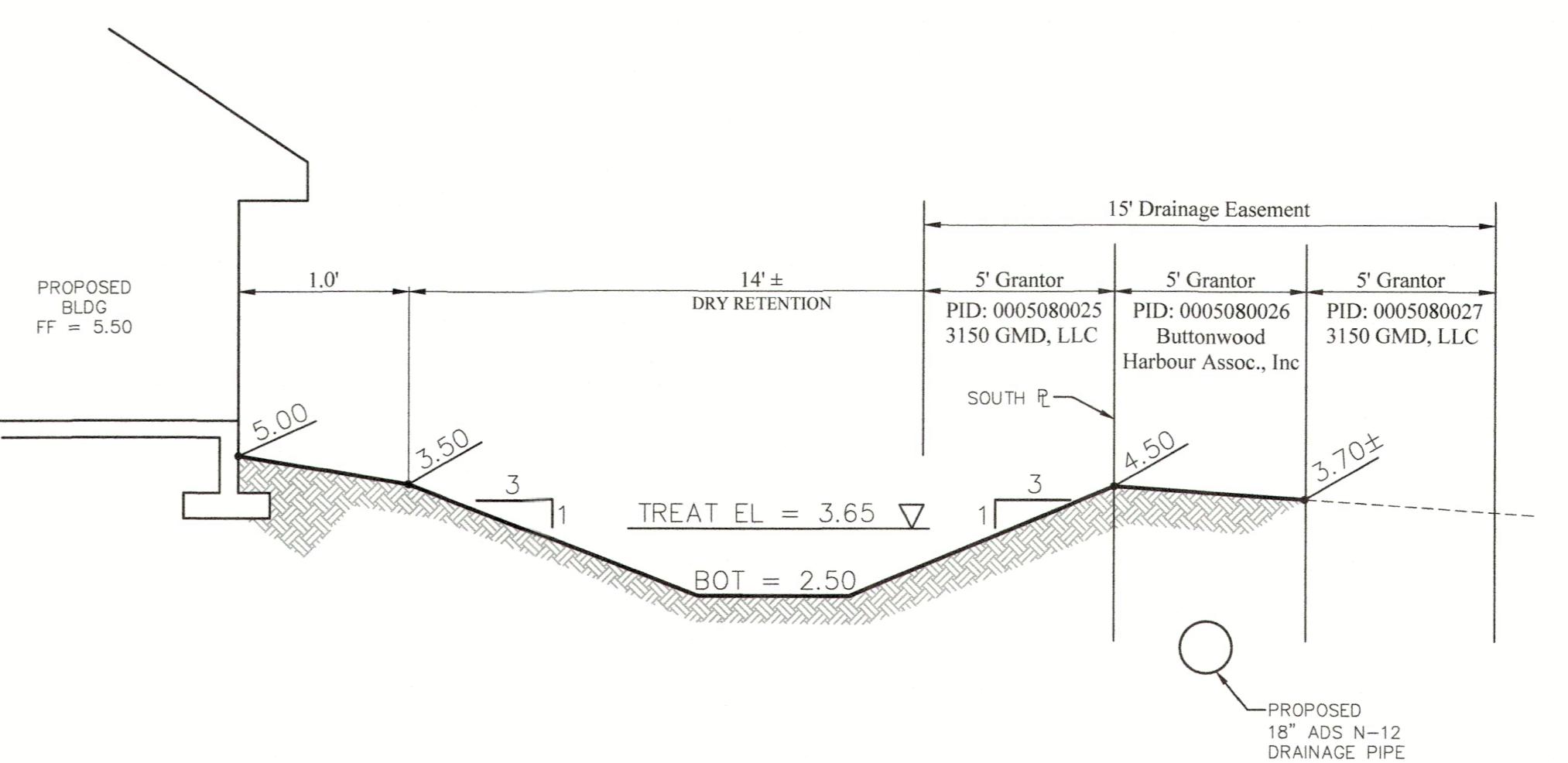
Steve Shroyer
PE No. 32052
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Submitted For:



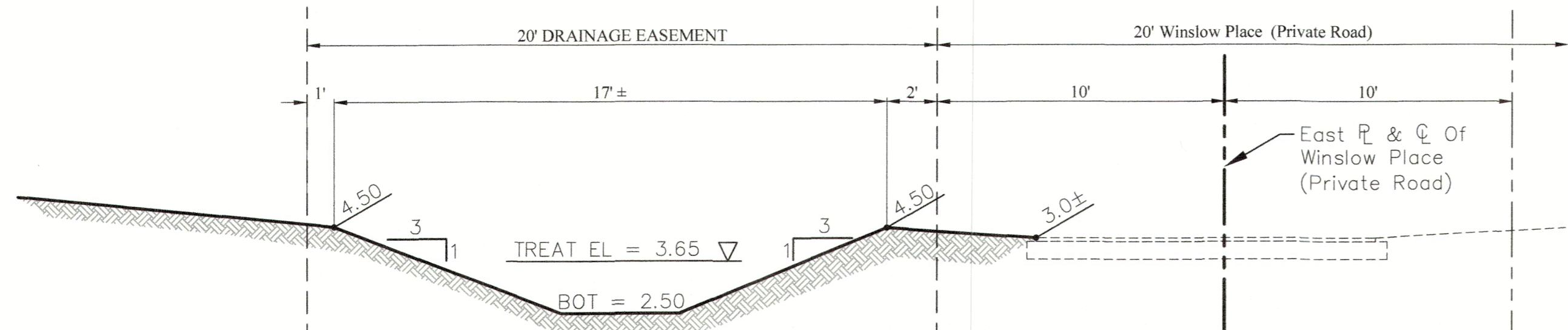
Section A-A

N.T.S.



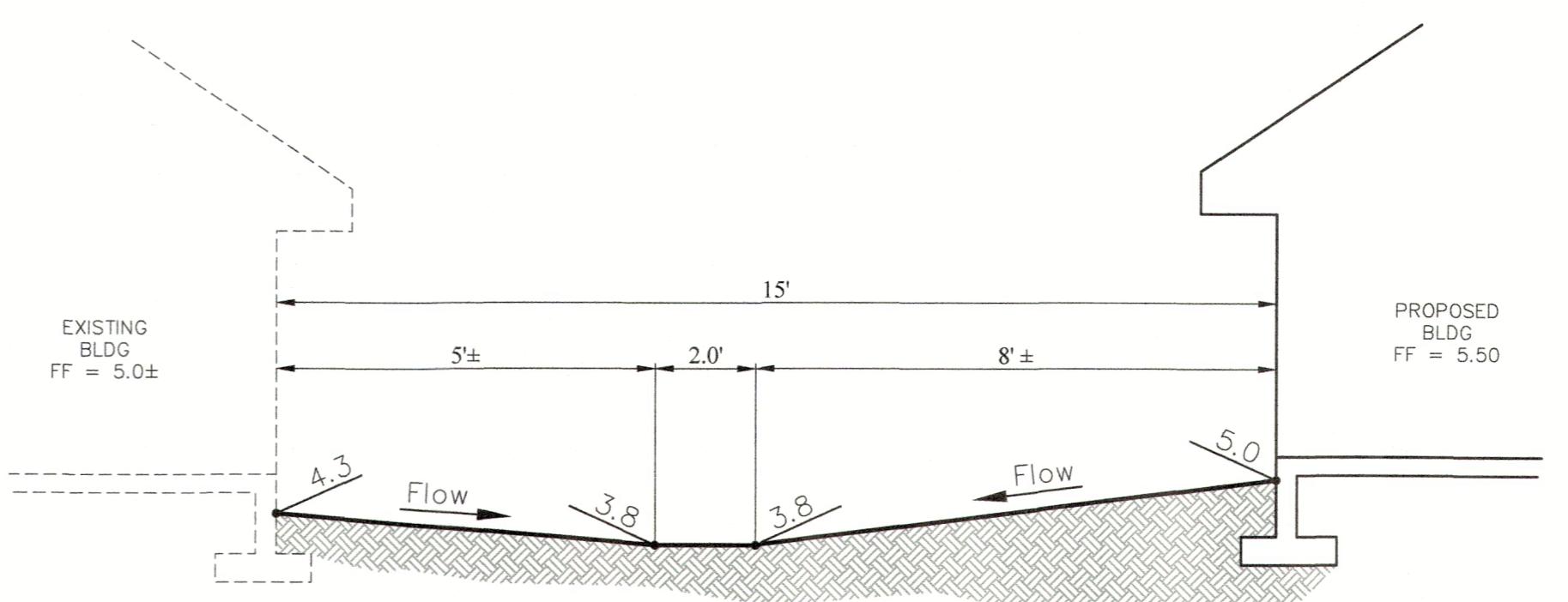
Section B-B

N.T.S.



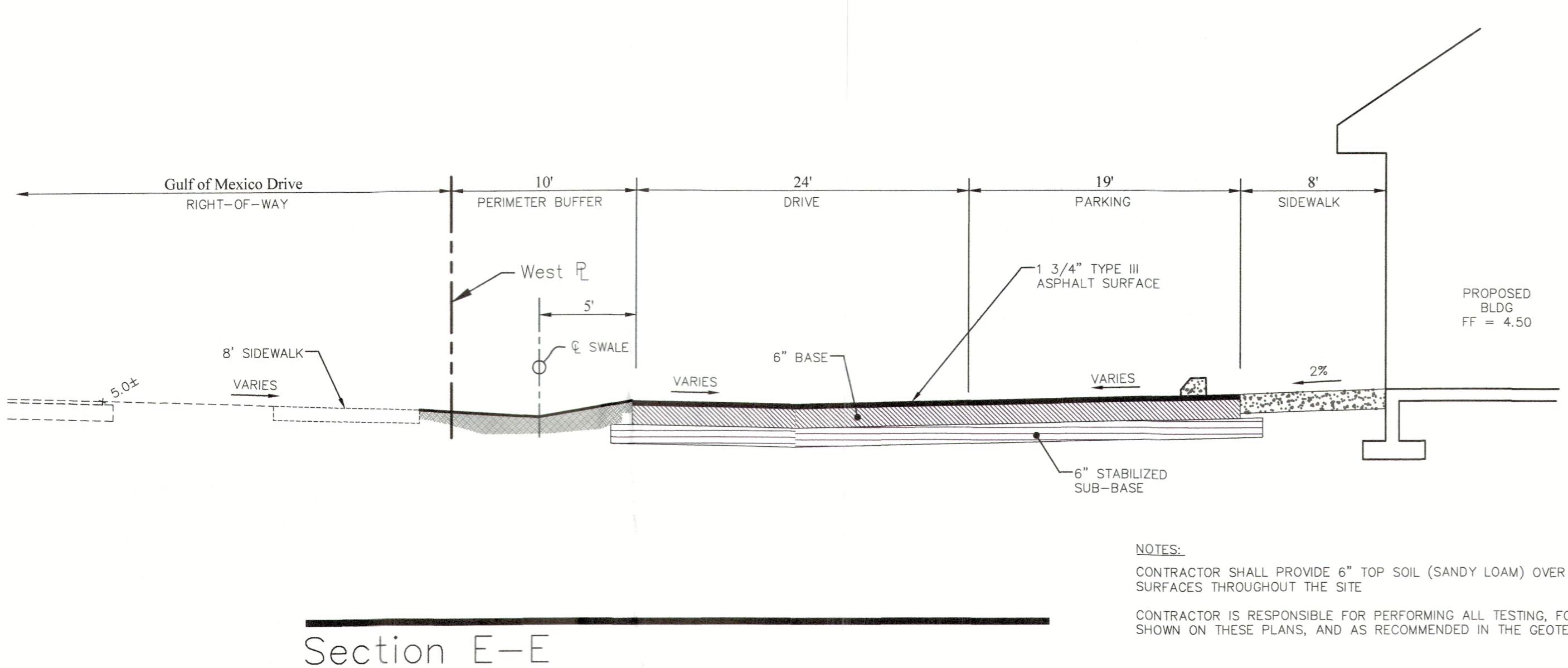
Section C-C

N.T.S.



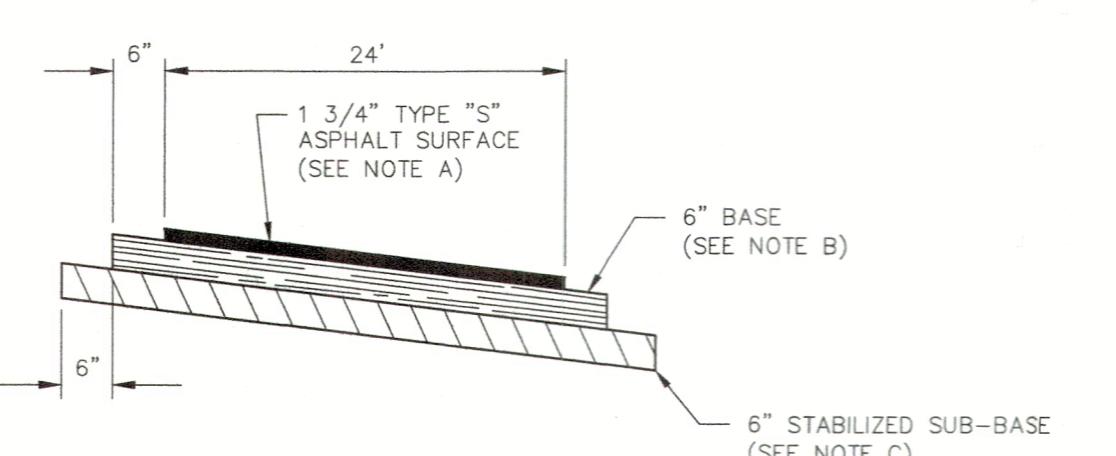
Section D-D

N.T.S.



Section E-E

N.T.S.



NOTES:

- Asphaltic concrete surface course shall be laid in two lifts. The first lift shall be 1" Type S-I or S-III. The second lift shall be 3/4" Type S-III.
- Base course shall consist of 6" limerock compacted to 98% modified proctor density or 6" Cement Treated Caloosahatchee shell compacted to 98% AASHTO T-180 density LBR 100 or 6" crushed concrete base.
- 6" stabilized sub-base shall consist of sandy sub-grade minimum LBR 40, 98% T180 AASHTO.
- No portion of drainage pipe shall be allowed in sub-base. 12" minimum cover is required on storm drain.
- Laboratory tests are required to substantiate structural section design. Specifications shown on this sheet are minimum requirements.

Pavement Detail

N.T.S.

Source: SDE

Design By: **JEC** Drawn By: **JMF** Checked By: **JEC**
Drawing Scale: **1" = 30'** Drawing Date: **1/20/22**

Cross Sections
For
Brista Homes

Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida

FSP-10

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STEVE J. SHROYER
32052
PROFESSIONAL ENGINEER
STATE OF FLORIDA
2024.08.13

Submitted For:

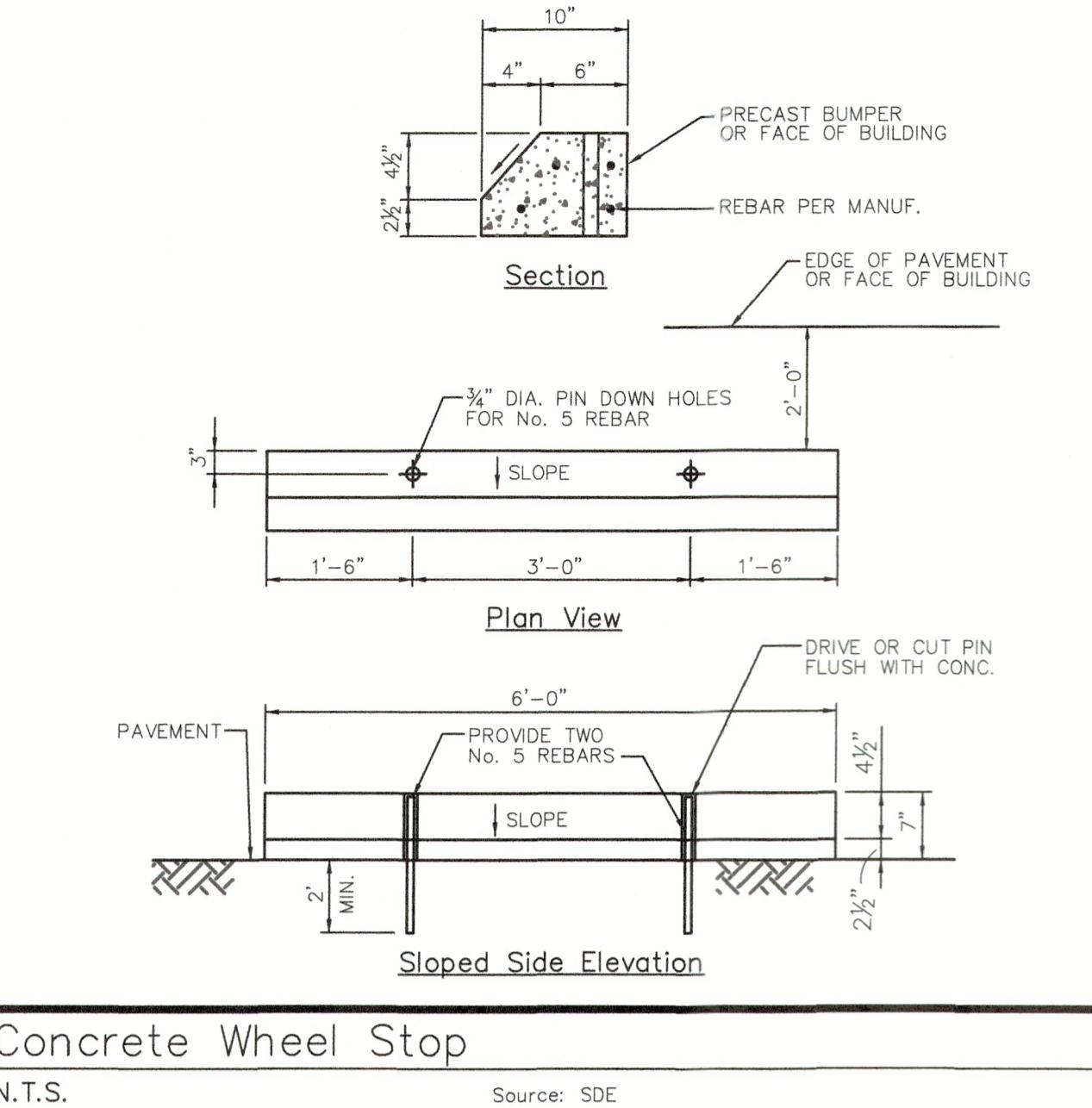
Design By: Drawn By: Checked By:
JEC TMF JEC
Drawing Scale: Drawing Date:
1" = 30' 1/20/22

Site Details
For
Brista Homes
Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida

FSP-11

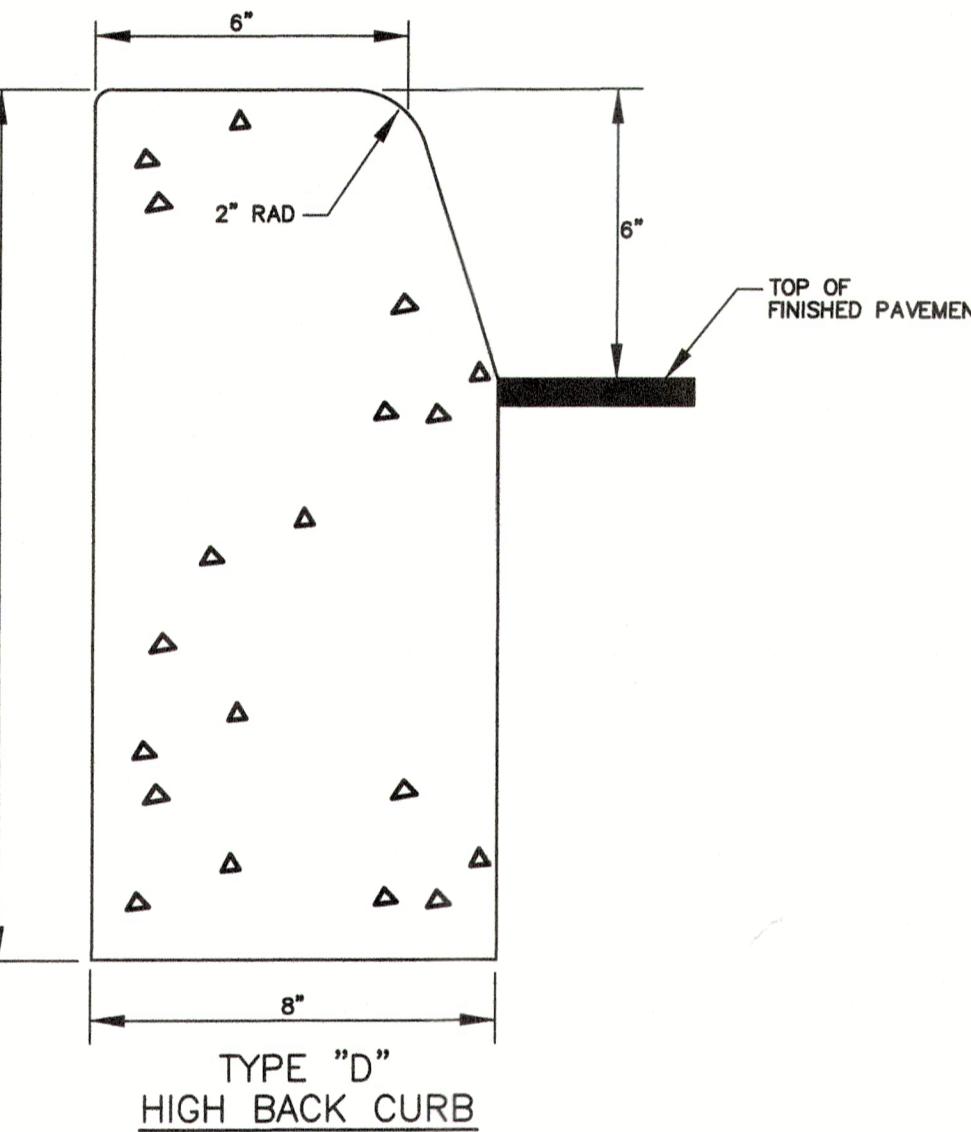
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Concrete Wheel Stop

N.T.S.

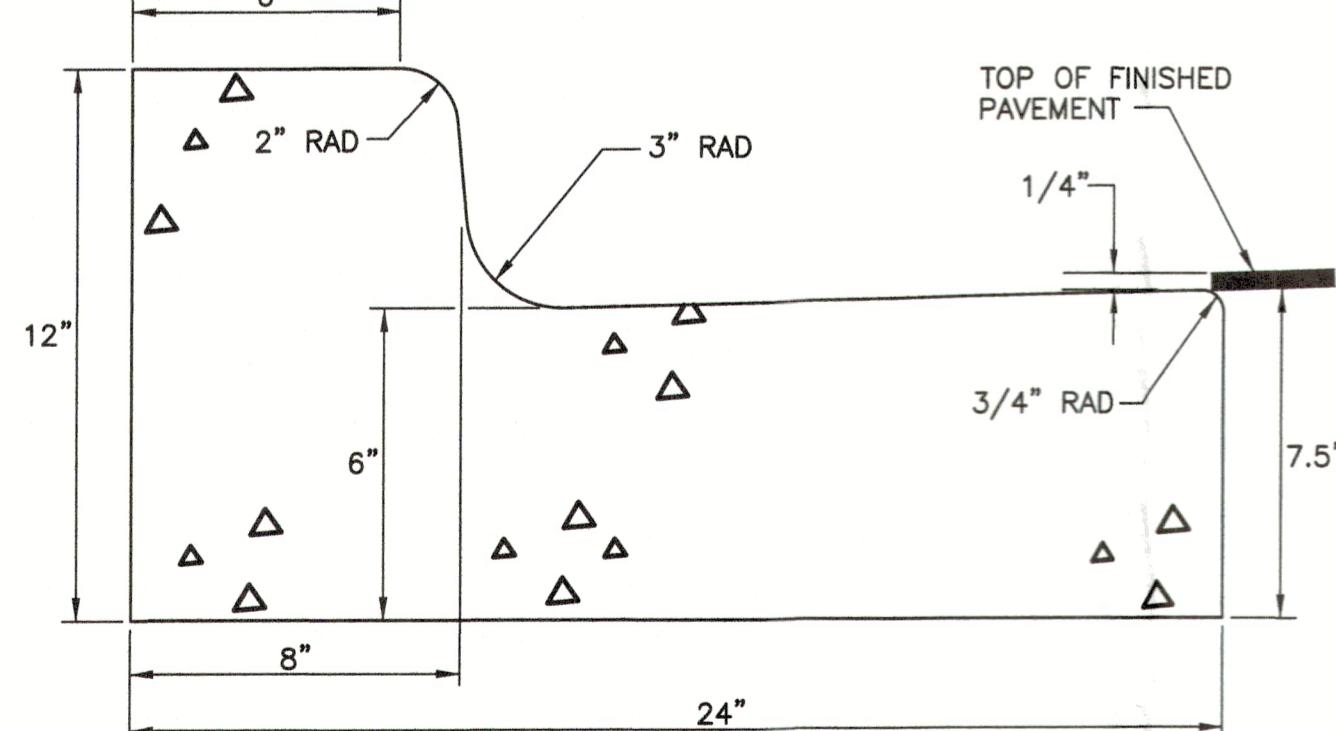


A) CLASS 1 CONCRETE, 3,000 P.S.I. AT 28 DAYS.

B) CURB SHALL MEET THE SPECIFICATIONS ESTABLISHED BY F.D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

Type "D" Curb

N.T.S.

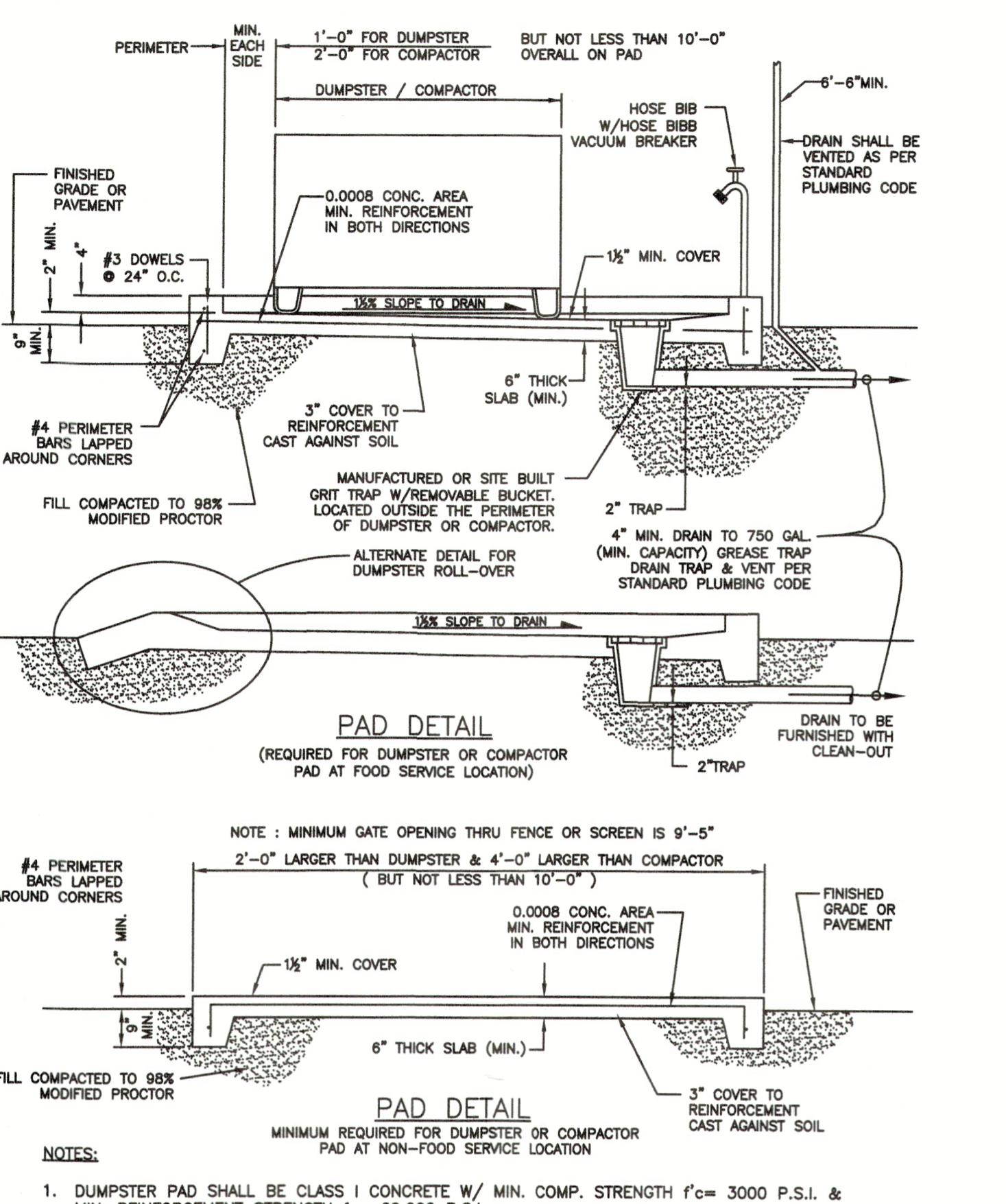


A) CLASS 1 CONCRETE 3,000 P.S.I. AT 28 DAYS.

B) CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

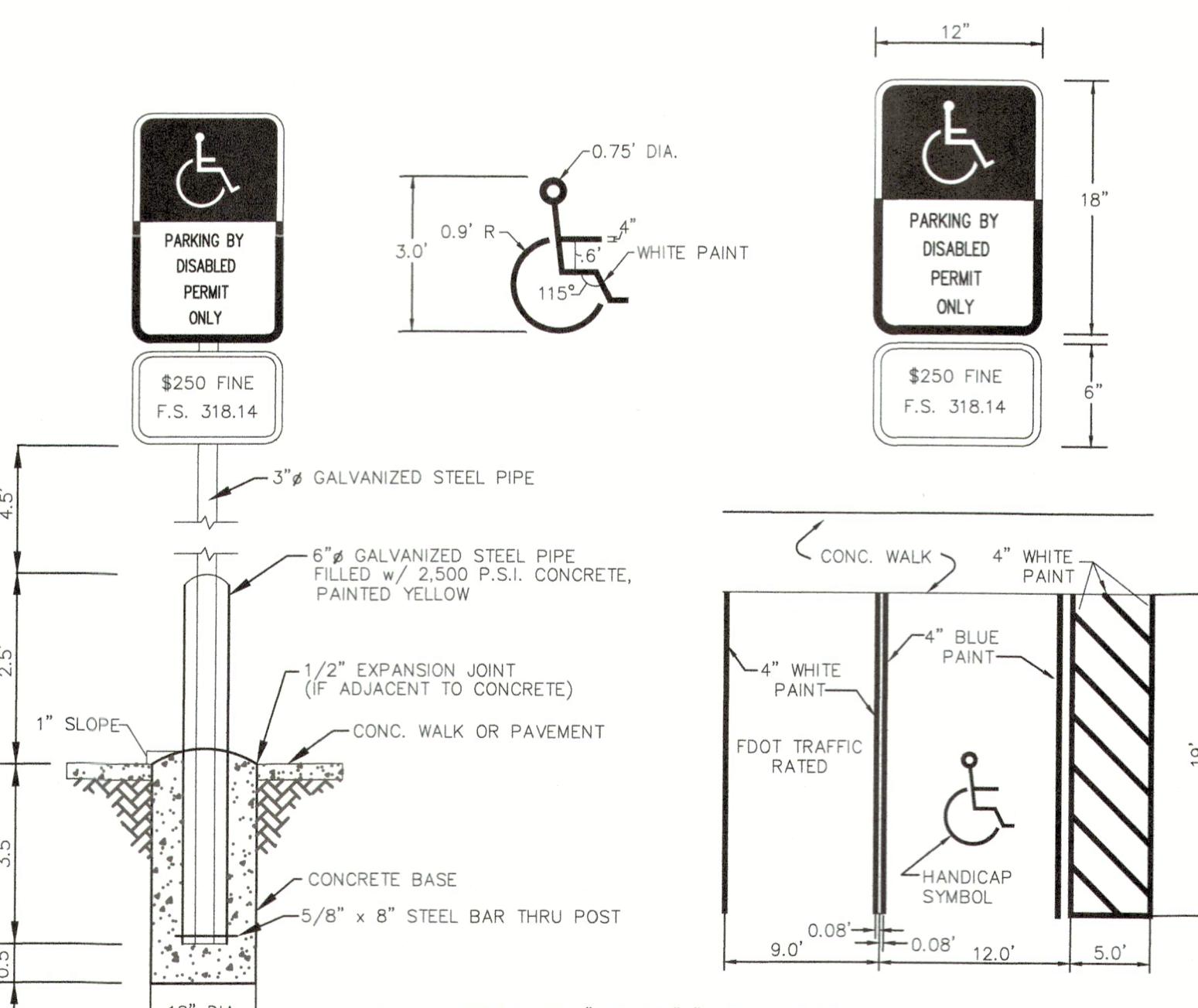
Type "F" Curb and Gutter

N.T.S.



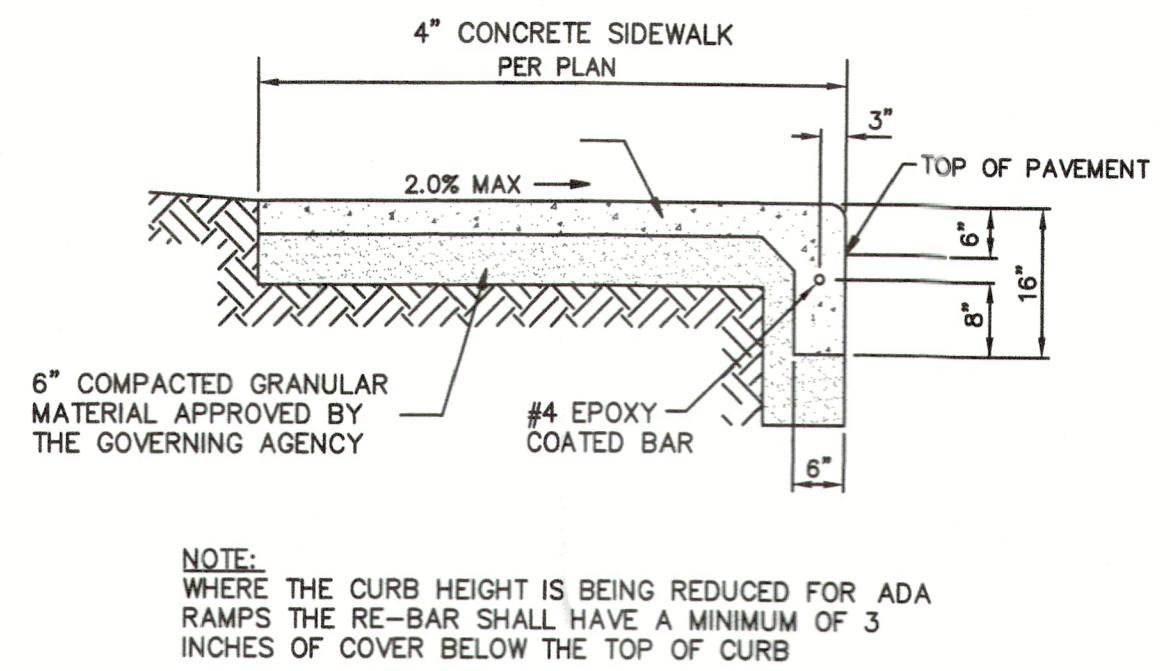
Compactor and Dumpster Pads Detail

N.T.S.



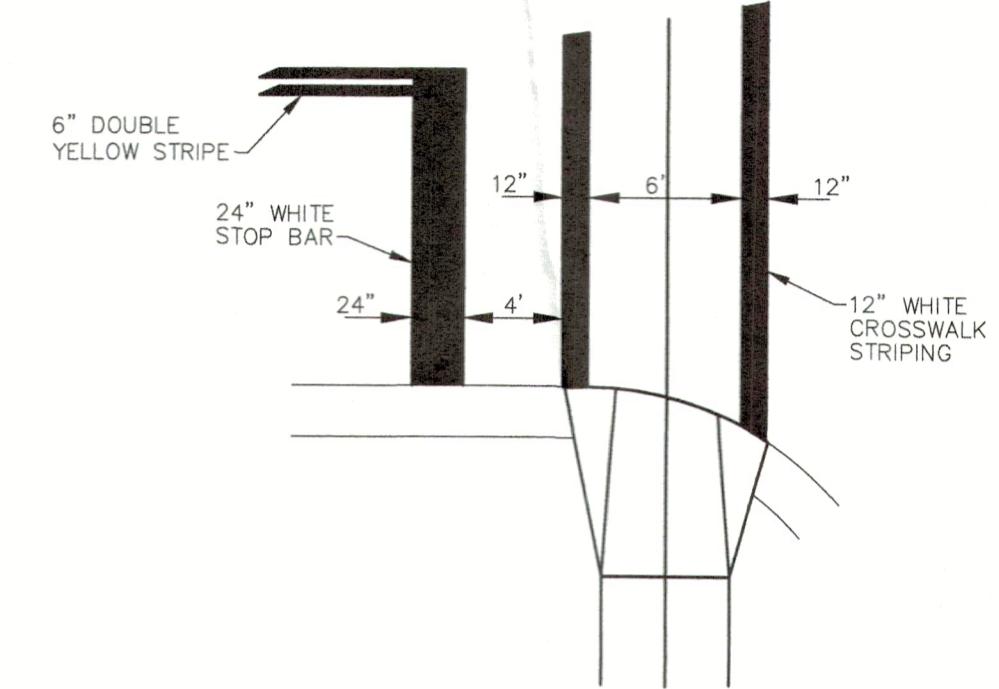
Handicap Parking Detail

N.T.S.



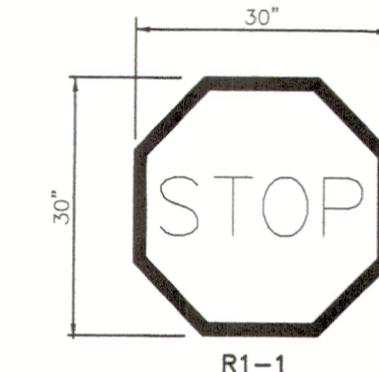
Integral Curb/Sidewalk Detail

N.T.S.



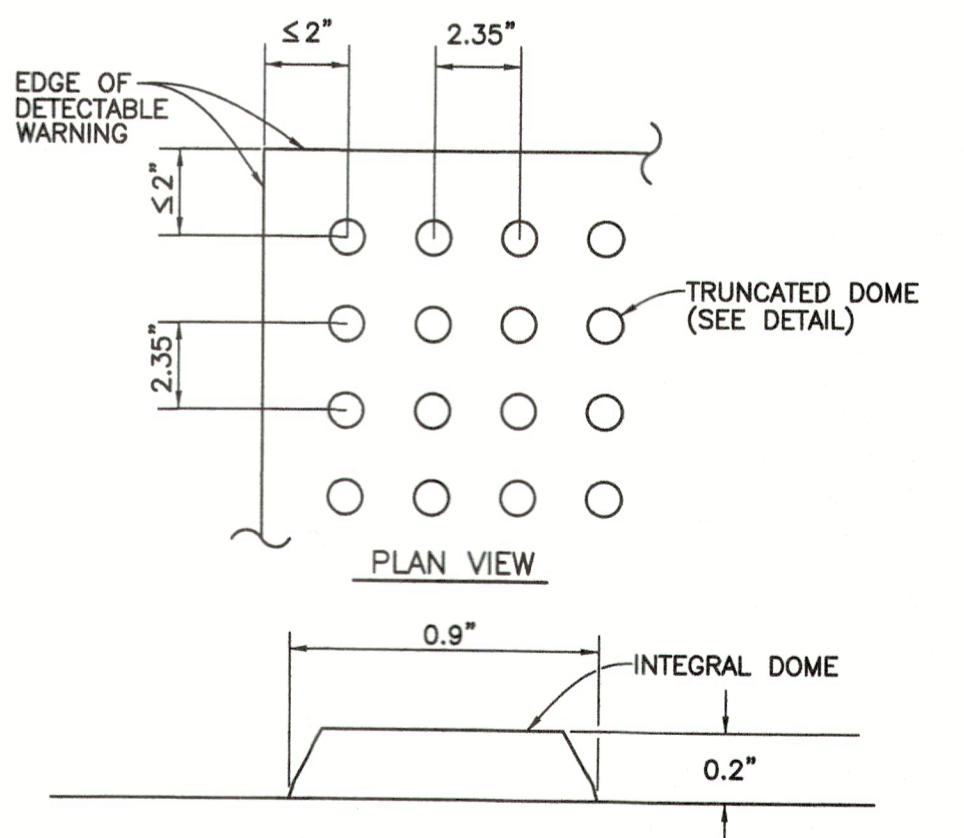
Crosswalk Striping Detail

N.T.S.



Site Sign Detail

N.T.S.



Curb Ramp Detectable Warning Detail

NOTES:

DETECTABLE WARNINGS ON WALKING SURFACES

THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CAKE CONTACT.

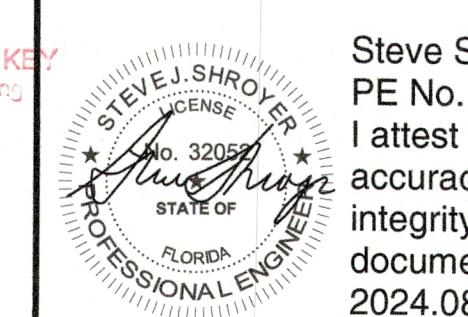
THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IN PERCENT IS DETERMINED BY: CONTRAST = [(B1-B2)/B1] x 100

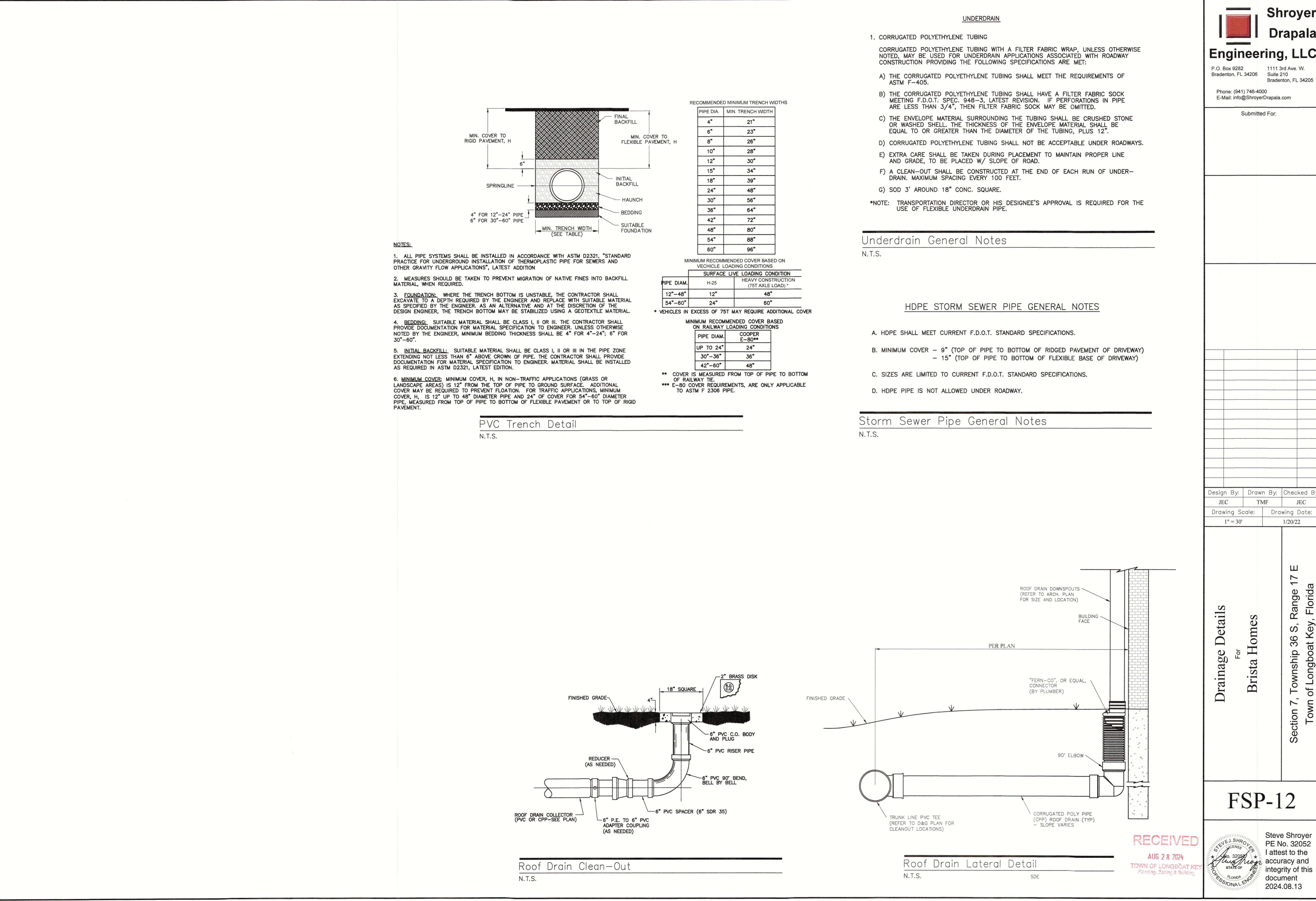
WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.

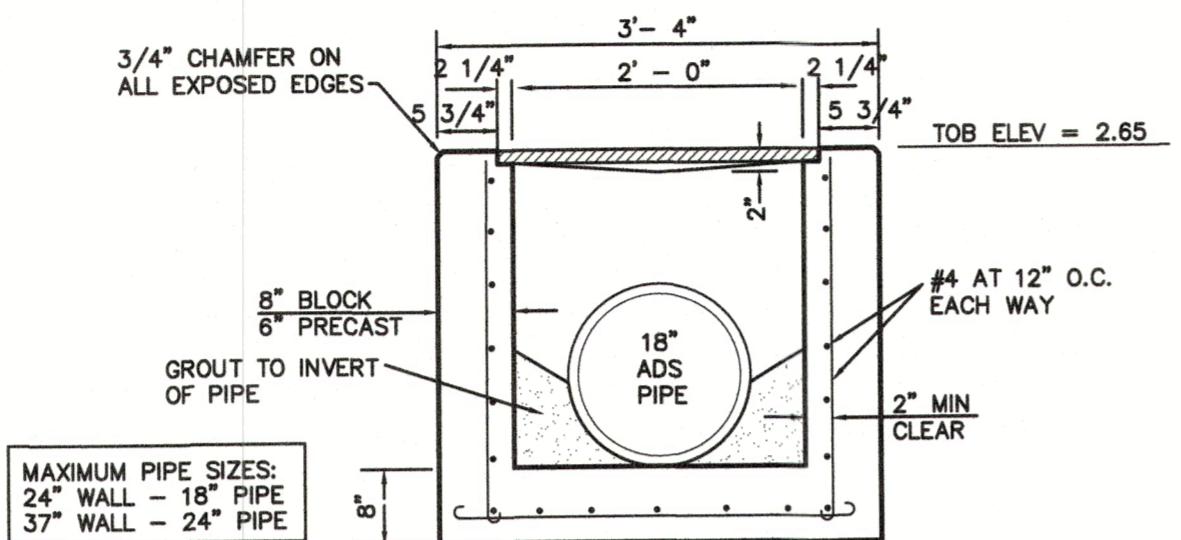
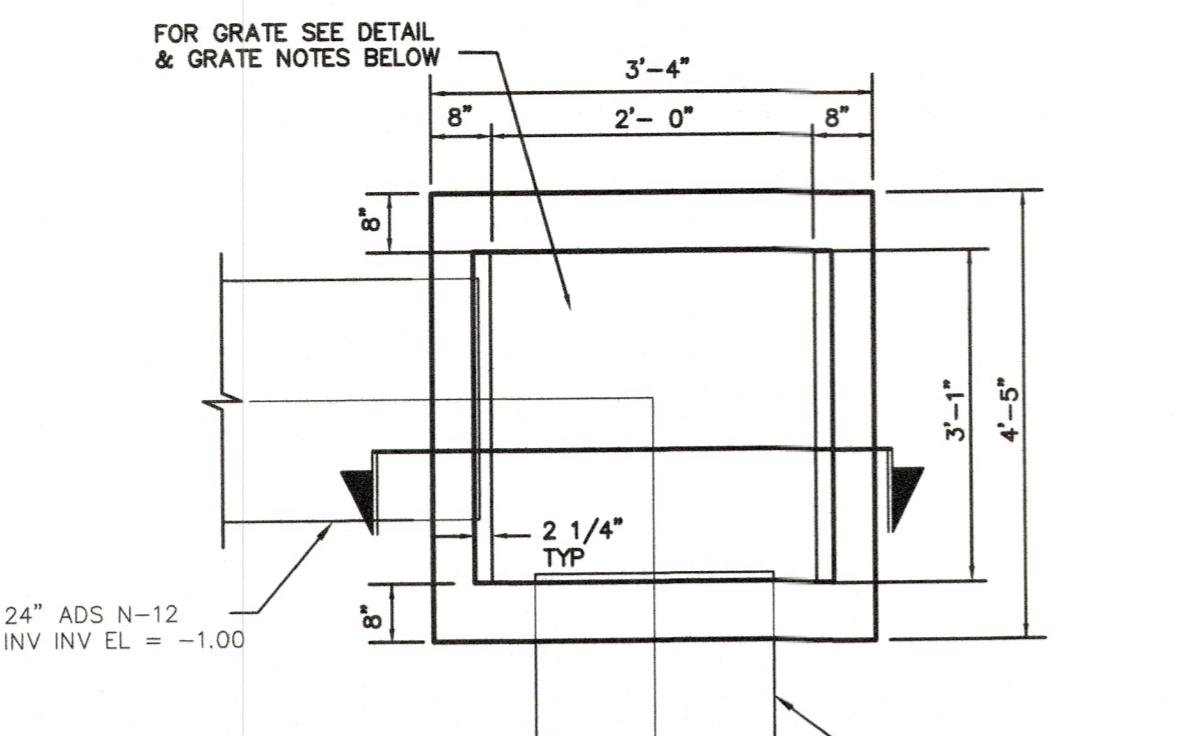
NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

Curb Ramp Detectable Warnings (YELLOW ONLY)

N.T.S.

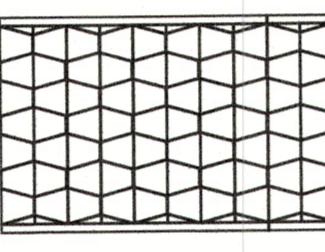






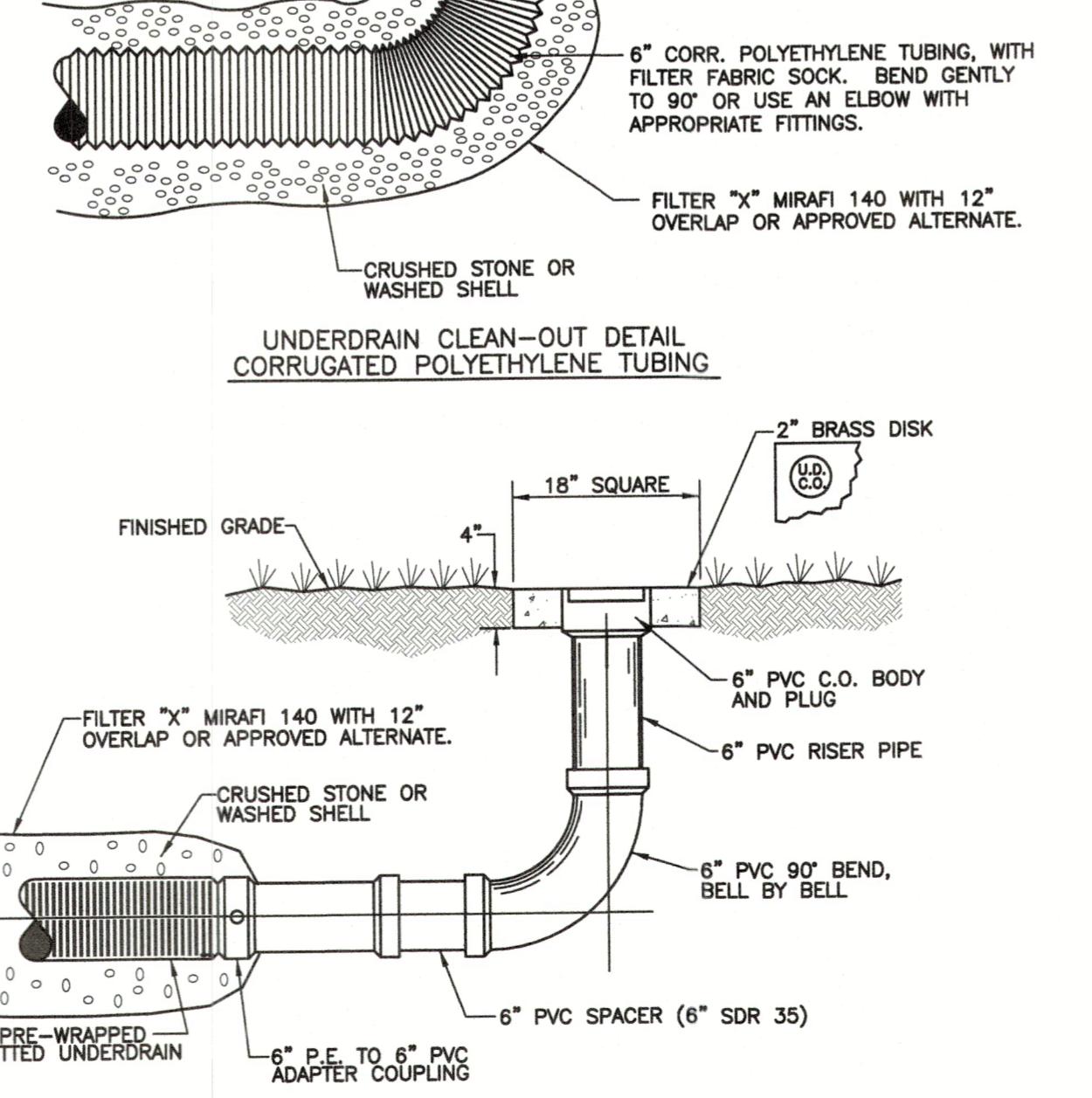
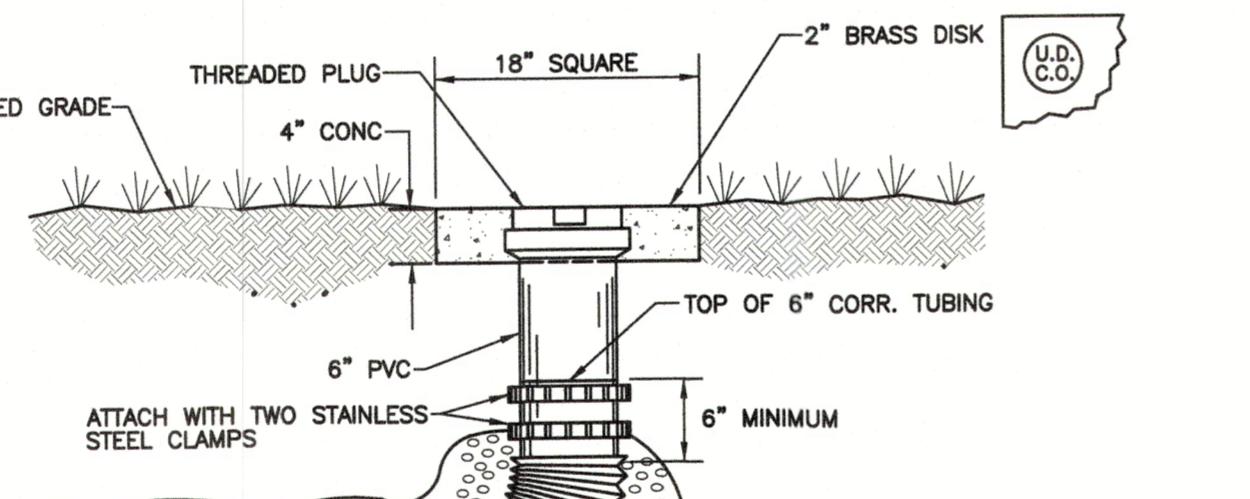
NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. SHOULD ANY VARIANCE OF THIS DETAIL BE NECESSARY.
2. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL OUTFALL CONTROL STRUCTURES.



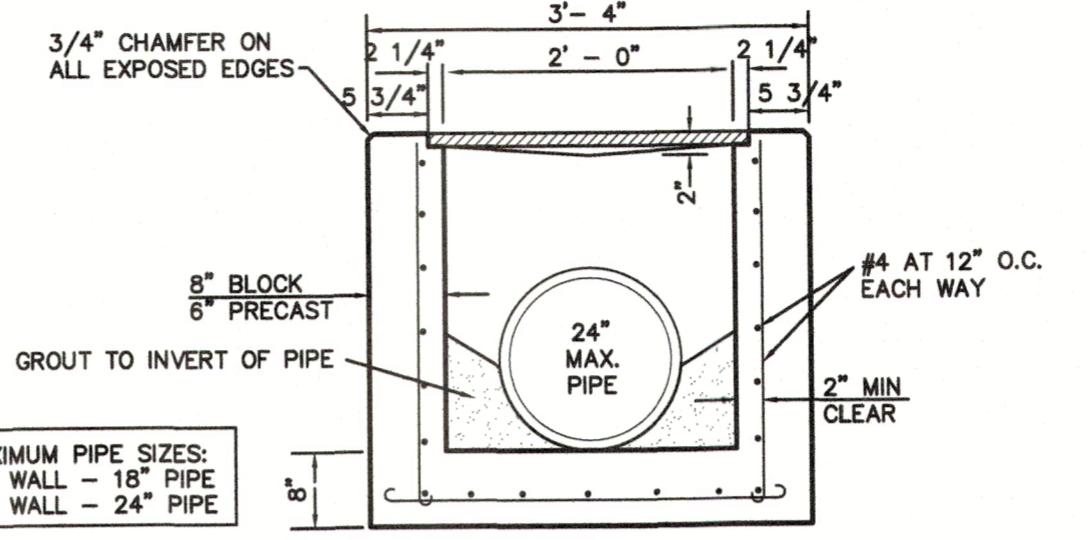
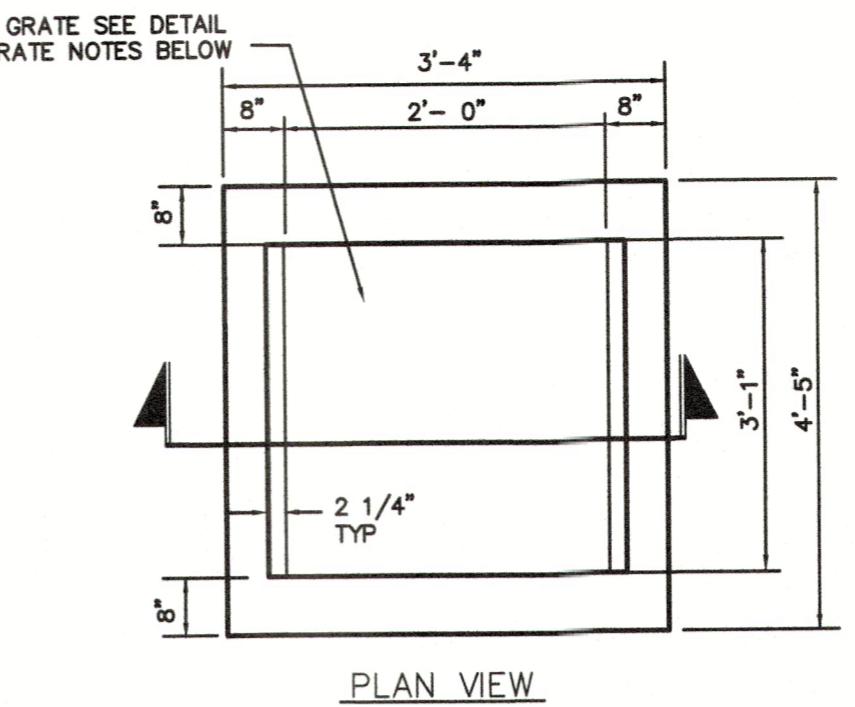
Control Structure Detail (CS#1)

N.T.S.



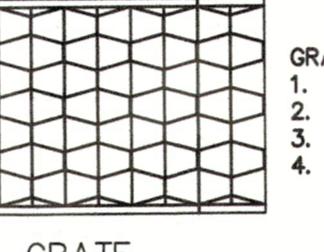
Underdrain Clean-Outs (Flexible & Rigid)

N.T.S.



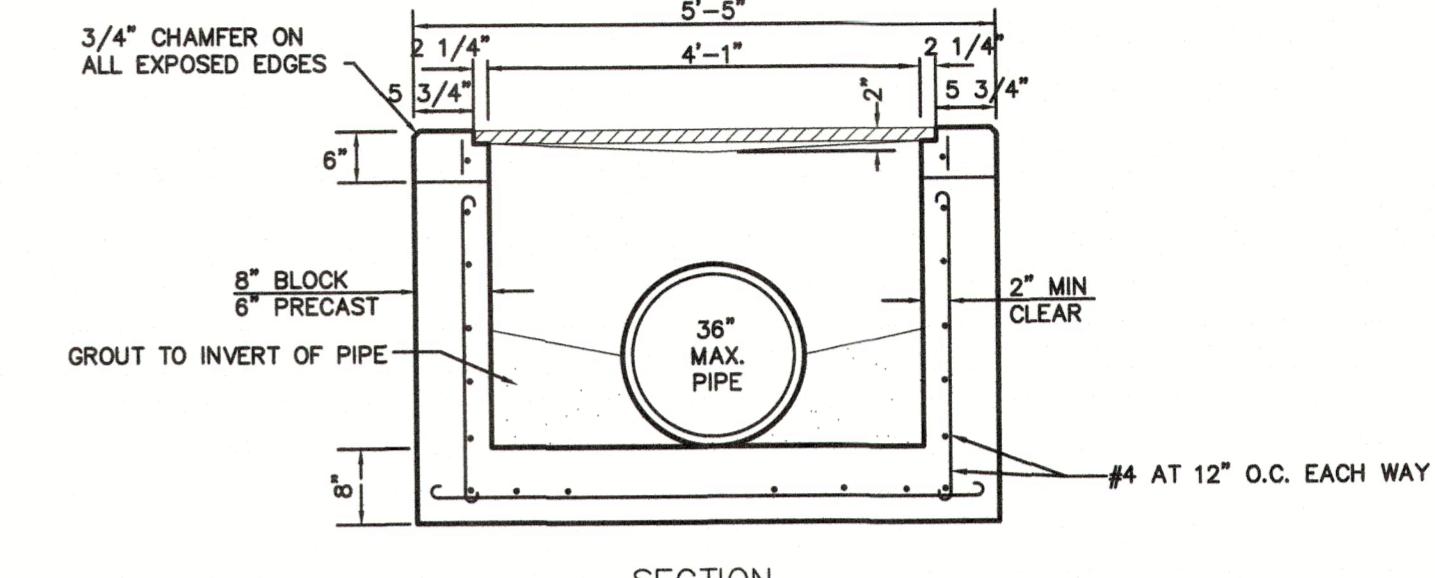
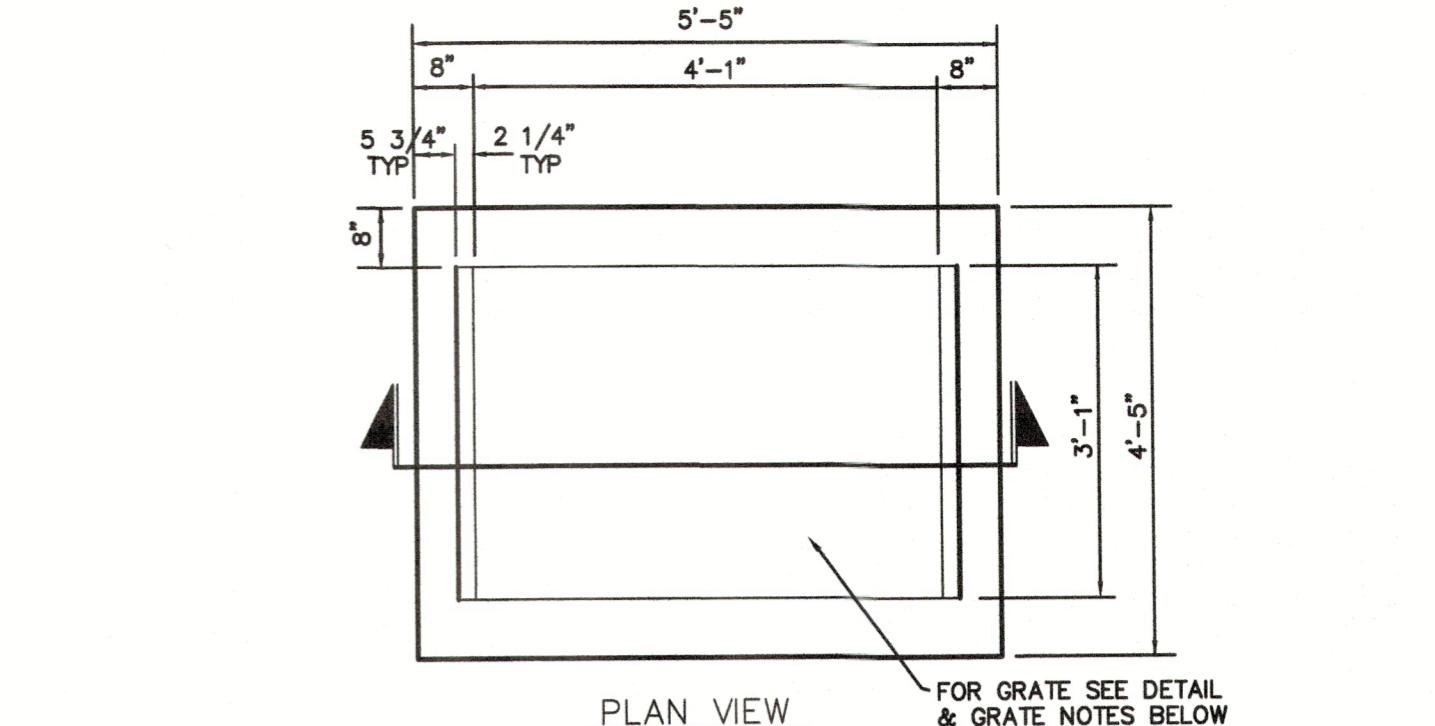
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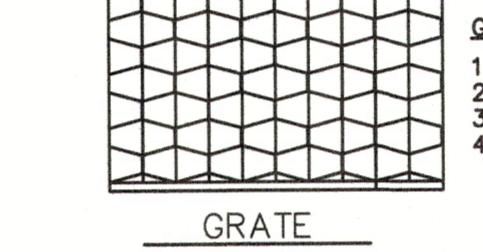
Type "C" Inlet Detail

N.T.S.



NOTES:

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2. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL OUTFALL CONTROL STRUCTURES.



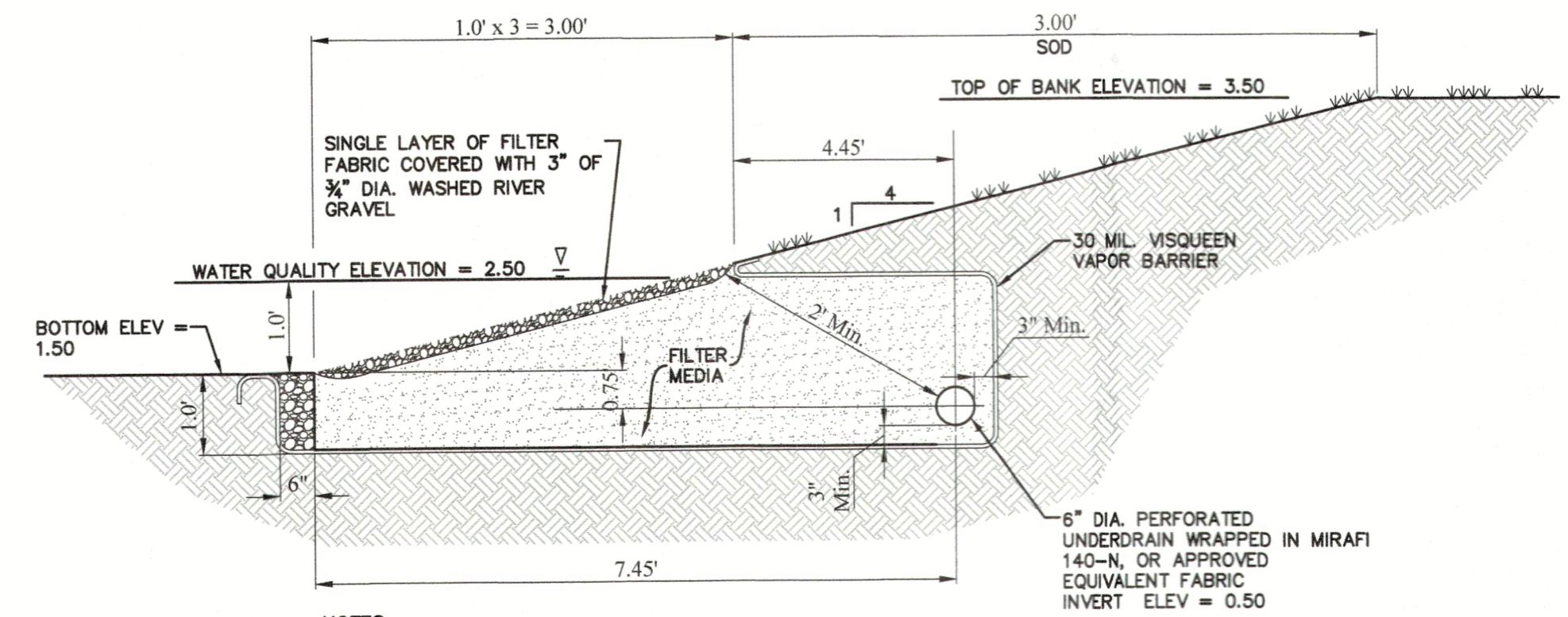
Type "D" Inlet Detail

N.T.S.

Design By:	Drawn By:	Checked By:
JEC	TMF	JEC
Drawing Scale:		Drawing Date:
1" = 30'		1/20/22

Drainage Details
For
Brista Homes

Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida



NOTES:
CONTRACTOR TO ENSURE VISQUEEN SEAMS ARE INSTALLED, PER MANUFACTURER'S SPECIFICATIONS, IN ORDER TO MAINTAIN A WATER TIGHT BARRIER.
FILTER MEDIA SHALL BE BOLD & GOLD CTS24 MEDIA. CONTACT FURGUSON WATERWORKS - TAMPA (EXCLUSIVE DISTRIBUTOR OF BOLD & GOLD FILTRATION MEDIA)

Side Bank Filter Detail

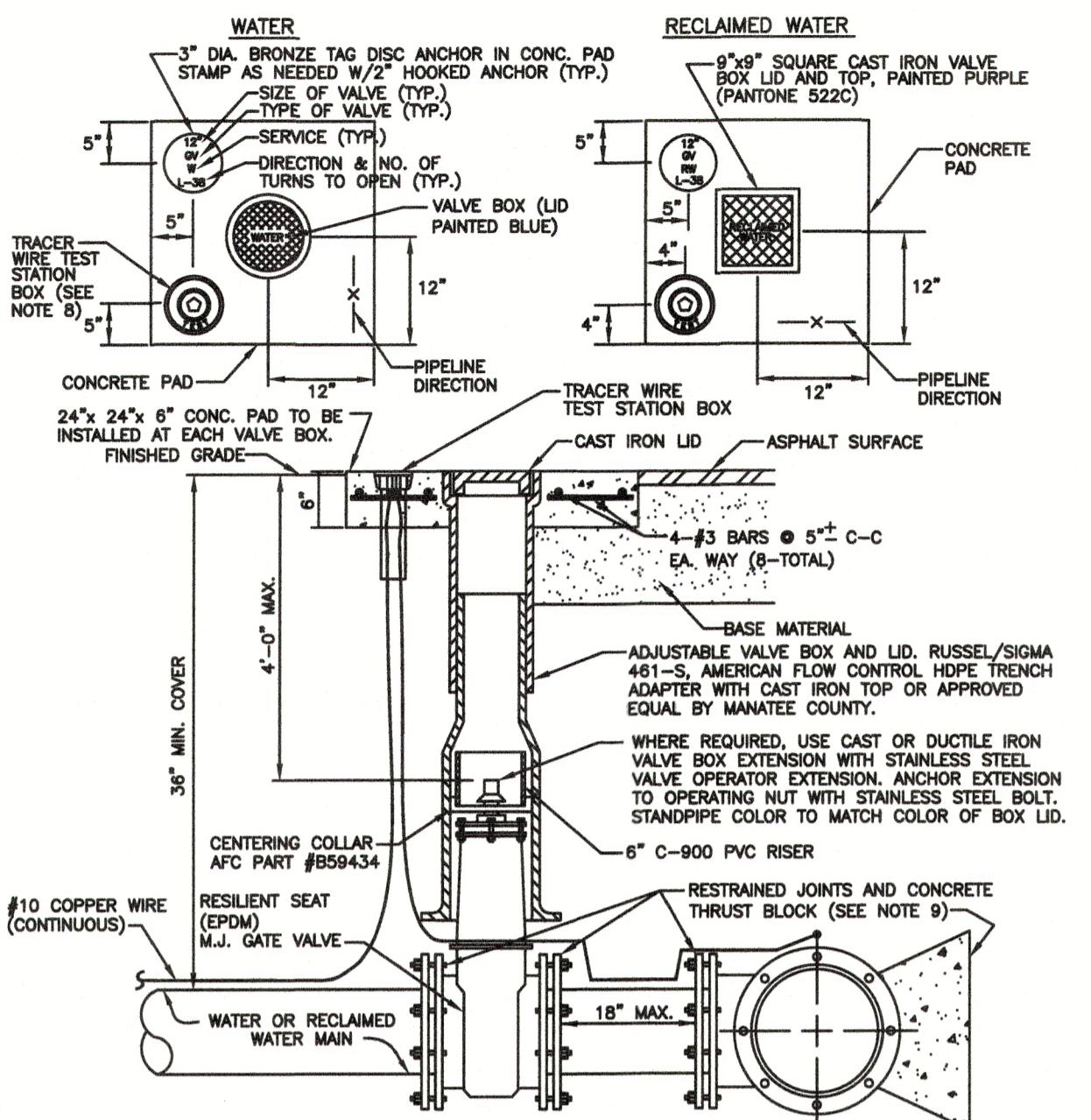
N.T.S.

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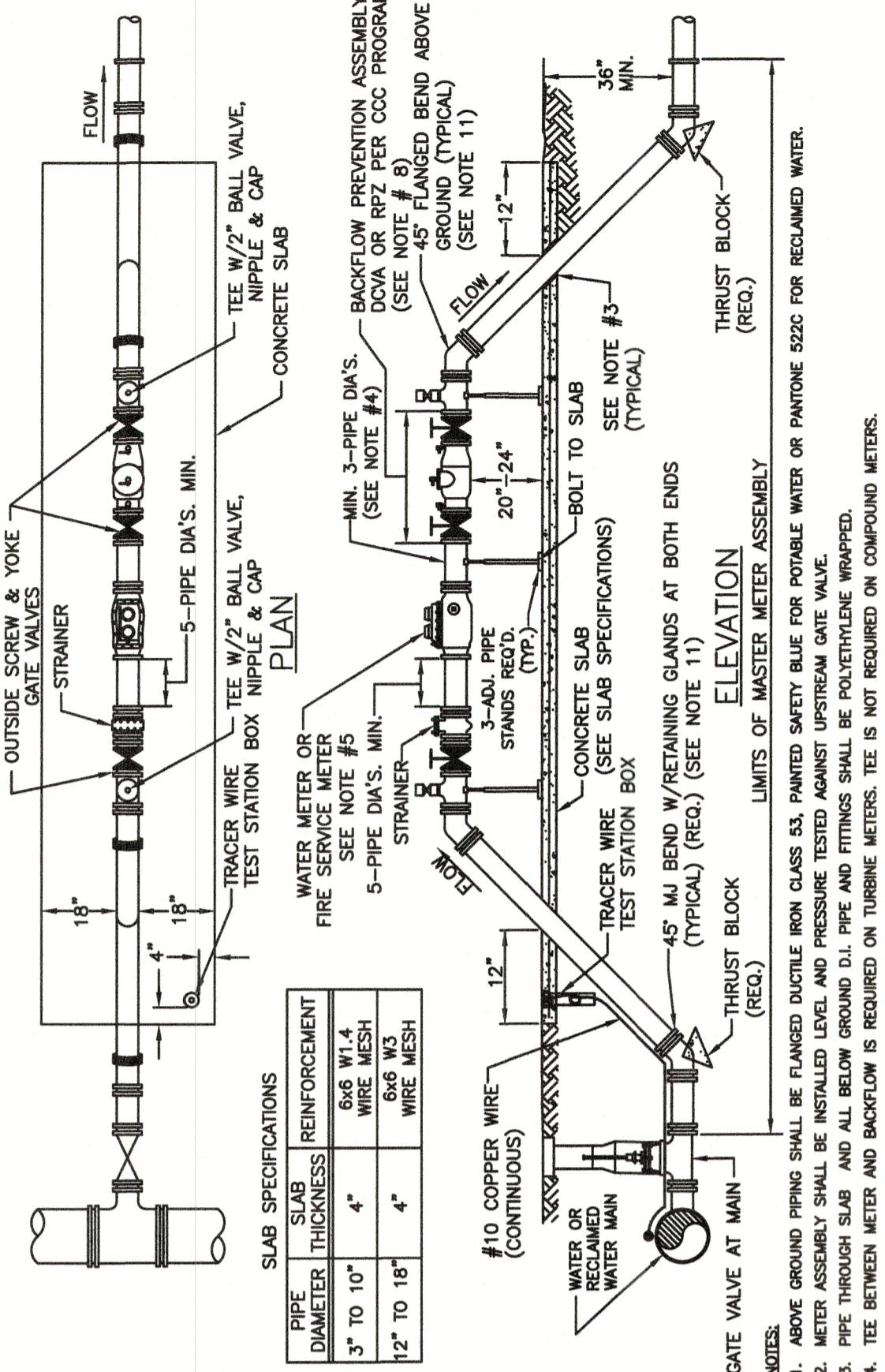
Submitted For:



NOTES:
1. "WY" OR "RW" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE OR Curb. INSTALL A 10" DIA. 1/2" THICK "WY" OR PURPLE DISC WITH THE Curb AND A 1/8"X1" GALVANIZED STEEL SREW IN THE EDGE OF PAVEMENT WITH THE FOOTING FROM THE DISC TO THE VALVE.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. IN ALL CASES, THE VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES.
4. PRECAST CONCRETE PADS & THRUST BLOCKS SHALL NOT BE USED.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. GATE VALVE SHALL BE FULL LENGTH.
7. PIPELINE DIRECTION TO BE IMPRESSED INTO NEWLY POURED CONCRETE PAD.
8. TRACER WIRE TEST STATION BOX IS NOT REQUIRED FOR VALVE BOXES WHERE THE GATE VALVE IS LOCATED WITHIN 200 FEET OF THE VALVE BOX. BACKFLOW PREVENTER OR FIRE HYDRANT THAT HAS A TRACER WIRE BOX.
9. WHERE THRUST BLOCK NOT USED, RESTRAINT JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR TEES.
10. BINGHAM & TAYLOR P2020NG FOR NORMAL YARD SERVICE, WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE P2020G CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.
11. SHOULD THERE BE INSUFFICIENT ROOM TO INSTALL THE METER ASSEMBLY, 90° BENDS AND TEES MAY BE USED AS SHOWN IN REPAIRMENT EDS. 2" AND ABOVE METER.
12. COUNTY WILL PROMISE STRAINER AND METER. ALL OTHER VALVES, PIPE, FITTINGS AND BACKFLOW PREVENTER TO BE PROVIDED BY SITE CONTRACTOR.

Gate Valve, Box, Lid and Tag

N.T.S.



NOTES:
1. ABOVE GROUND PIPE SHALL BE FLANGED DUCTILE IRON CLASS 53, PAINTED SAFETY BLUE AGAINST UPSTREAM GATE VALVE.
2. METER ASSEMBLY SHALL BE INSTALLED LEVEL AND PRESSURE TESTED AGAINST UPSTREAM GATE VALVE.
3. PIPE THROUGH SLAB AND ALL BELOW GROUND D.I. PIPE AND FITTINGS SHALL BE POLYETHYLENE WRAPPED.
4. TEE, BETWEEN METER AND BACKFLOW IS REQUIRED ON TURBINE METERS. TE IS NOT REQUIRED ON COMPACT METERS.
5. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
6. LANDSCAPE VEGETATION SHALL BE 10'-0" MIN. FROM METER & ABOVE GROUND PIPING. STREET SIDE OF ASSEMBLY SHALL REMAIN OPEN.
7. BACKFLOW PREVENTER IS NOT REQUIRED ON RECLAIMED WATER METER ASSEMBLY, EXCEPT WHERE FERTILIZER OR CHEMICAL INJECTION METHODS WILL BE IN USE.
8. 10" C-900 PVC RISER
9. ALL ANCILLARY BOLTS & FASTENERS SHALL BE STAINLESS STEEL.
10. SMALL VALVES SHALL BE FULL PORT WITH LOCATING TABS.
11. SHOULD THERE BE INSUFFICIENT ROOM TO INSTALL THE METER ASSEMBLY, 90° BENDS AND TEES MAY BE USED AS SHOWN IN REPAIRMENT EDS. 2" AND ABOVE METER.
12. COUNTY WILL PROMISE STRAINER AND METER. ALL OTHER VALVES, PIPE, FITTINGS AND BACKFLOW PREVENTER TO BE PROVIDED BY SITE CONTRACTOR.

3" And Above Master Meter

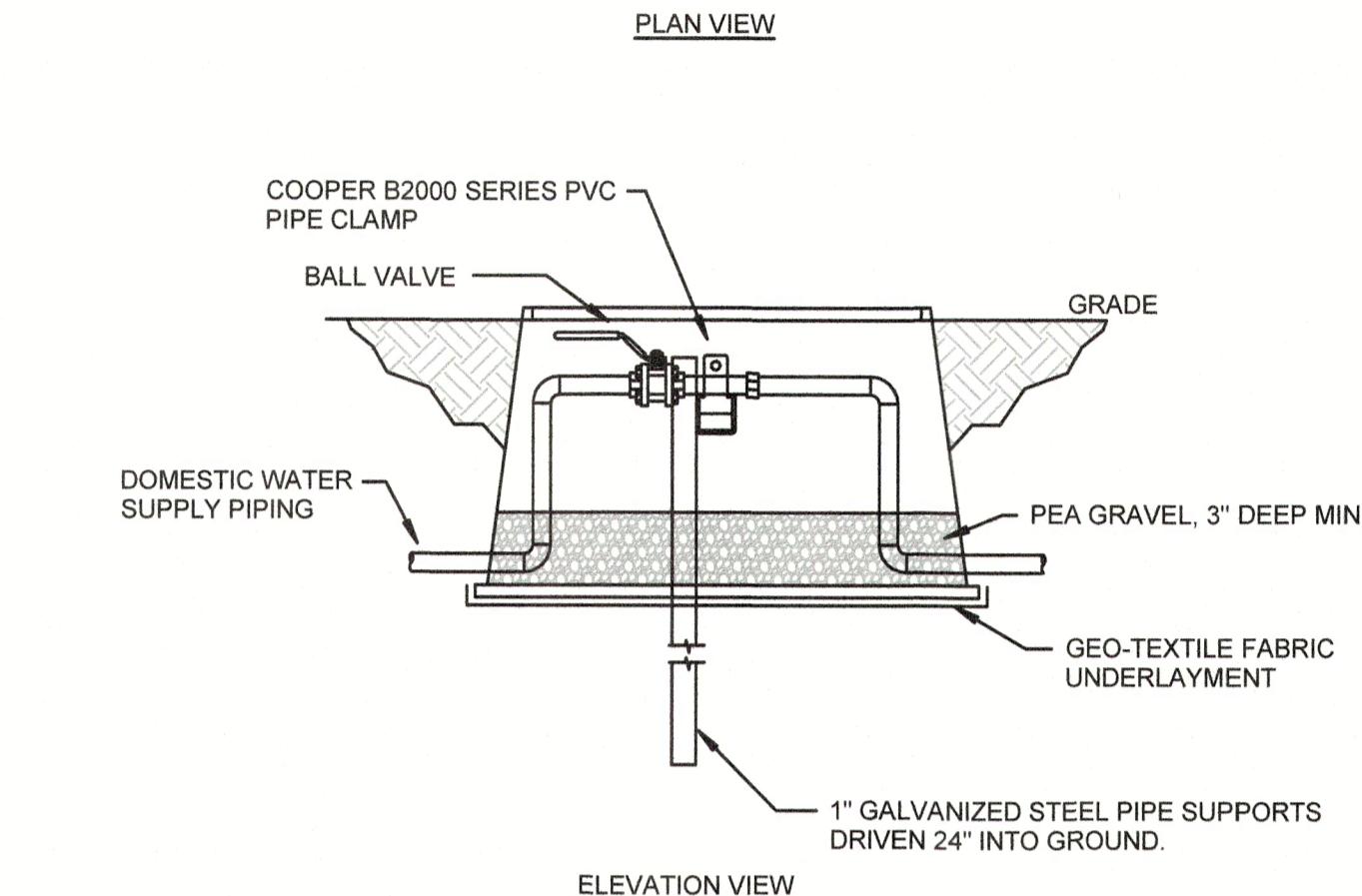
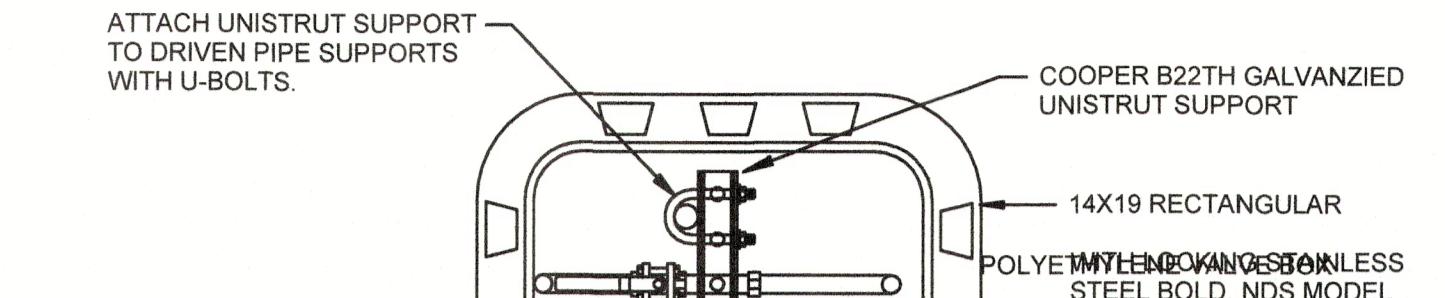
N.T.S.

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE

MAIN PIPE SIZE	HORZ. BENDS			TEES			REDUCERS			PLUGS & VALVES		
	90°	45°	22.5°	90°	45°	22.5°	90°	45°	22.5°	90°	45°	22.5°
24	90	38	18	234	130	120	230	130	120	214	130	120
20	78	32	16	214	110	100	210	110	100	184	110	100
18	66	27	13	194	105	95	190	105	95	151	105	95
12	52	22	10	174	90	80	170	90	80	118	90	80
10	44	19	9	154	80	70	150	80	70	100	80	70
8	37	15	7	134	65	55	130	65	55	83	65	55
6	29	12	6	114	54	44	110	54	44	63	54	44
4	21	8	4	94	44	34	90	44	34	45	44	34

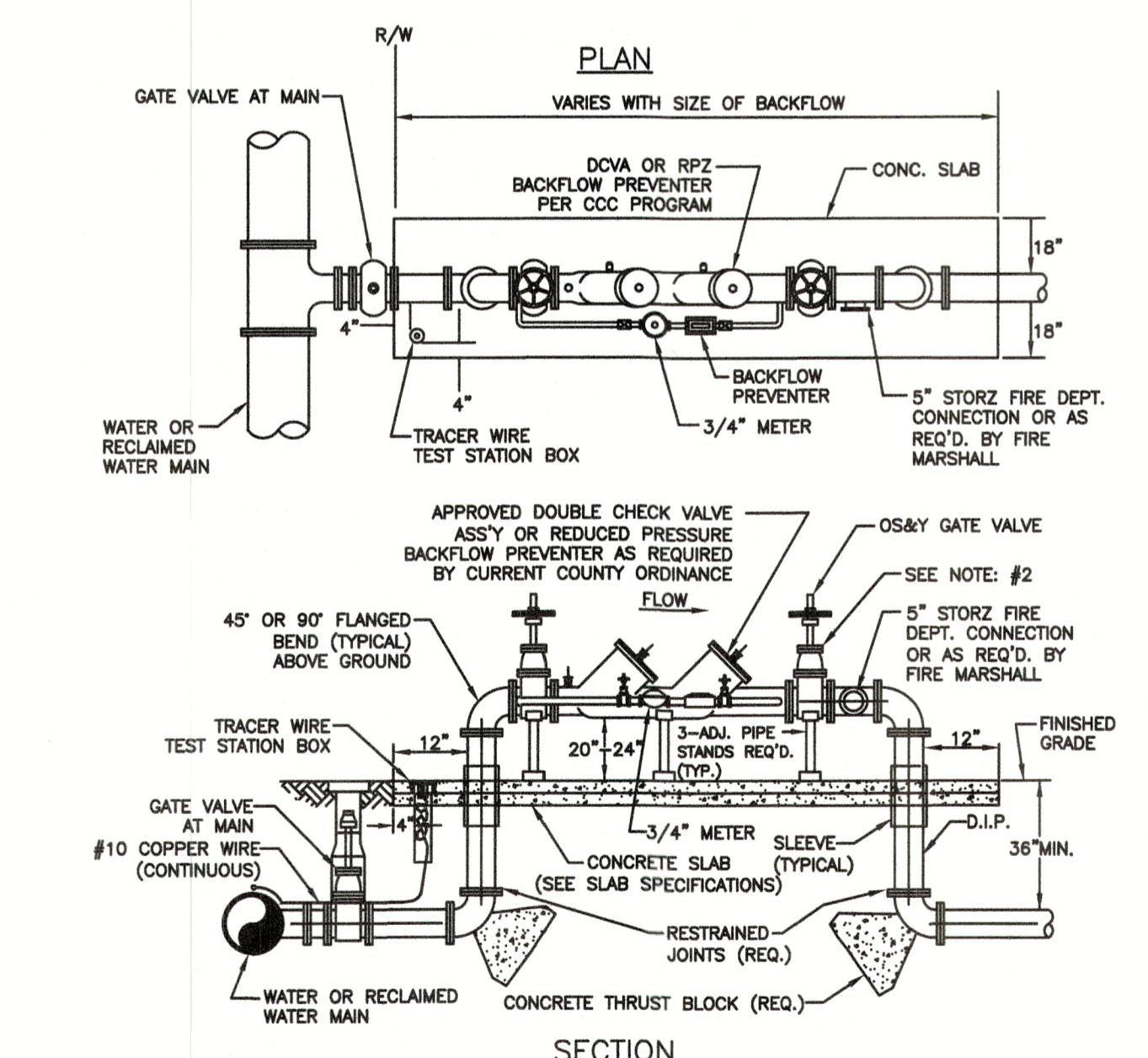
NOTES:

1. RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
4. PIPE SIZES ARE GIVEN IN INCHES.
5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
7. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH ANWA TEST PRESSURE OF 180 PSI. ACTUAL RESTRAINED LENGTHS MAY VARY BASED ON TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURROW CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL RESTRAINED LENGTHS FOR PIPE.



Water Service Shut-Off Valve @ Bldg.

N.T.S.



NOTES:
1. THIS DETAIL FOR FIRE PROTECTION ONLY.
2. WHEN PRESSURE TESTING FIRE LINE, TEST AGAINST DOWNSTREAM GATE VALVE.
3. THE SYSTEM MUST MEET ALL REQUIREMENTS OF THE FLORIDA PLUMBING CODE (LATEST EDITION), THE MANATEE COUNTY BACKFLOW PREVENTION ORDINANCE (LATEST EDITION) AND THE MANATEE COUNTY FIRE MARSHALL REQUIREMENTS.
4. APPROVED GROOVING SHALL BE FLANGED DUCTILE IRON CLASS 53 AND PAINTED PURPLE.
5. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
6. LANDSCAPE VEGETATION SHALL BE 6 FEET MIN. FROM EDGE OF CONCRETE SLAB. STREET SIDE OF ASSEMBLY SHALL REMAIN OPEN.

3" And Above Fire Line Backflow Preventer

N.T.S.

THRUST BLOCK DIMENSIONS B ft. x d inches												
PIPE SIZE	90° BEND	45° BEND	22.5° BEND	11.25° BEND	DEAD END	45° WYE	B	D	B	D	B	D
4	1.5	3 1/2	1.1	3 1/2	0.8	3 1/2	0.6	3 1/2	1.3	3 1/2	1.1	3 1/2
6	2.2	5 1/2	1.6	3 1/2	1.2	3 1/2	0.8	3 1/2	1.9	4 1/2	1.6	3 1/2
8	2.9	7	2.1	5	1.5	3 1/2	1.1	3 1/2	2.4	5 1/2	2.0	4 1/2
10	3.5	8 1/2	2.6	6 1/2	1.9	4 1/2	1.3	3 1/2	3.0	7 1/2	2.5	6
12	4.2	10	3.1	7 1/2	2.2	5 1/2	1.6	3 1/2	3.5	8 1/2	3.0	7 1/2
14	4.9	11 1/2	3.6	8 1/2	2.6	6 1/2	1.8	4 1/2	4.1	9 1/2	3.4	8 1/2
16	5.5	13	4.1	9 1/2	2.9	7	2.1	5	4.7	11 1/2	3.9	9 1/2
18	6.2	15	4.6	11	3.3	8	2.3	5 1/2	5.2	12 1/2	4.4	10 1/2
20	6.9	16 1/2	5.0	12	3.6	8 1/2	2.6	6 1/2	5.8	14	4.9	11 1/2
24	8.2	19 1/2	6.0	14 1/2	4.3	10 1/2	3.1	7 1/2	6.9	16 1/2	5.8	14
30	10.1	24 1/2	7.5	18	5.3	12 1/2	3.6	8	8.5	20 1/2	7.2	17 1/2
36	12.1	29	8.9	21 1/2	6.4	15 1/2	4.5	10 1/2	10.2	24 1/2	8.6	20 1/2

REINFORCEMENT MAT SCHEDULE

NOTES:
1. ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.

2. THIS TABLE IS BASED ON WATER PRESSURE=100 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSI, CONCRETE STRENGTH=4000 PSI, REINFORCEMENT=4#-60 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTRESSED SOIL.

3. FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.

4. RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. THRUST BLOCKS SHALL BE USED IN SITUATIONS WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE BOTH REQUIRED.

5. FOR DIM. "B" BETWEEN 5.75" & 12.5" USE #4 @ 8" EACH WAY

6. FOR DIM. "B" LESS THAN 5.75" USE #3 @ 8" EACH WAY

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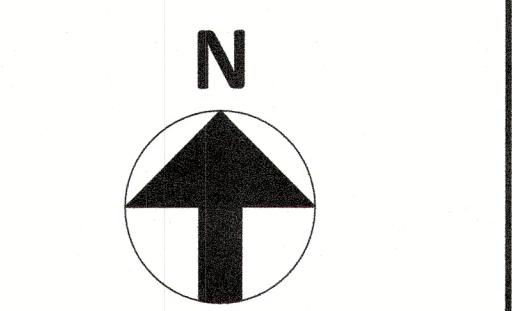
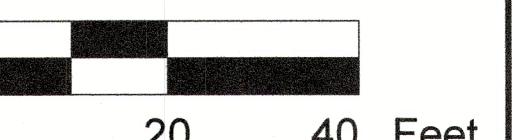
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Design By: Drawn By: Checked By:
JEC JEC JEC

Drawing Scale: Drawing Date:

1"=20' 1/6/23

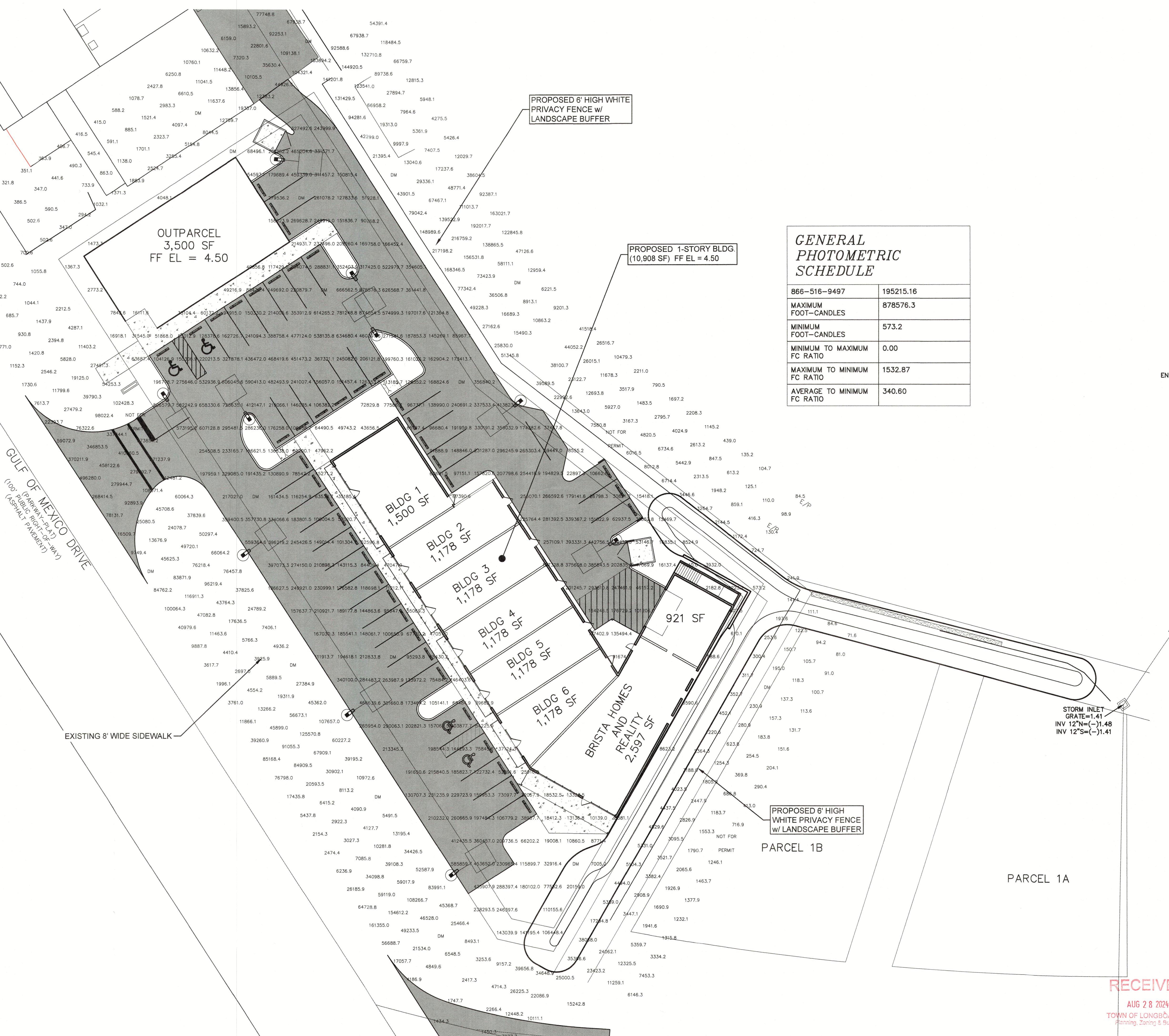
Site Lighting Photometric Plan
For
Brista Homes
Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida

RECEIVED
AUG 28 2024
TOWN OF LONGBOAT KEY
Planning, Zoning & Building

Steve Shroyer
PE No. 32052
I attest to the
accuracy and
integrity of this
document
2024.08.13

LP-1

STEVE J. SHROYER
No. 32052
PROFESSIONAL ENGINEER
State of Florida



Photometrics Pro

Luminaire Photometric Report

[Evaluation Version]

Filename: MED-BSW-T3-AMB-STL

Manufacturer: SYNERGY LIGHTING INC

Luminaire: MED SERIES

Luminaire Cat: MED-BSW-T3-AMB-STL

Lamp: X-70-CRI DATA SHOWN IS SCALED FROM 11645718.05

Lamp Output: Total Luminaire Lumens: 8621.6

Max Candelas: 10,824.4 at Horizontal: 300°, Vertical: 72.5°

Input Watts: 85.2822

Luminous Opening: Circular (Diameter: 21")

Test Lab: IT SHENZHEN LTD OPTRONICS

Photometry: Type C

Name Type: 7 X 5

Roadway Summary

Cutoff Classification: NONCUTOFF

Distribution: TYPE III, MEDIUM

Max Cd, 90 Deg Vert: 0

Max Cd, 90 to <90 Deg: 2,743.4

Lumens % Lamp: 100%

Downward Street Side: 7,591.9 88.1%

Downward House Side: 1,029.4 11.9%

Downward Total: 8,621.3 100%

Upward Street Side: 0 0%

Upward House Side: 0 0%

Upward Total: 0 0%

Total Lumens: 8,621.3 100%

Zonal Lumen Summary

Zone Lumens % Luminaire

0-30 770.4 8.9%

0-40 1,501.4 17.4%

0-60 4,515.2 52.4%

00-90 4,106.4 47.6%

70-100 1,738.6 20.2%

90-120 0 0%

0-90 8,621.6 100%

90-180 0 0%

0-180 8,621.6 100%

Isofootcandle Plot

House Side

Street Side

Long Medium Short Very Short

20 ft 2.5 ft 0.2 ft 0.1 ft Total (LP): 0.69

5 ft 0.5 ft 50% Max Cd

5 ft 0.5 ft 50% Max Cd

Distance in units of mount height (20ft)

Point of Max Cd: 10,824.4

Roadway Utilization Curve

Street Width / Mounting Height

House Side Street Side

0.5 0.4 0.3 0.2 0.1 0

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