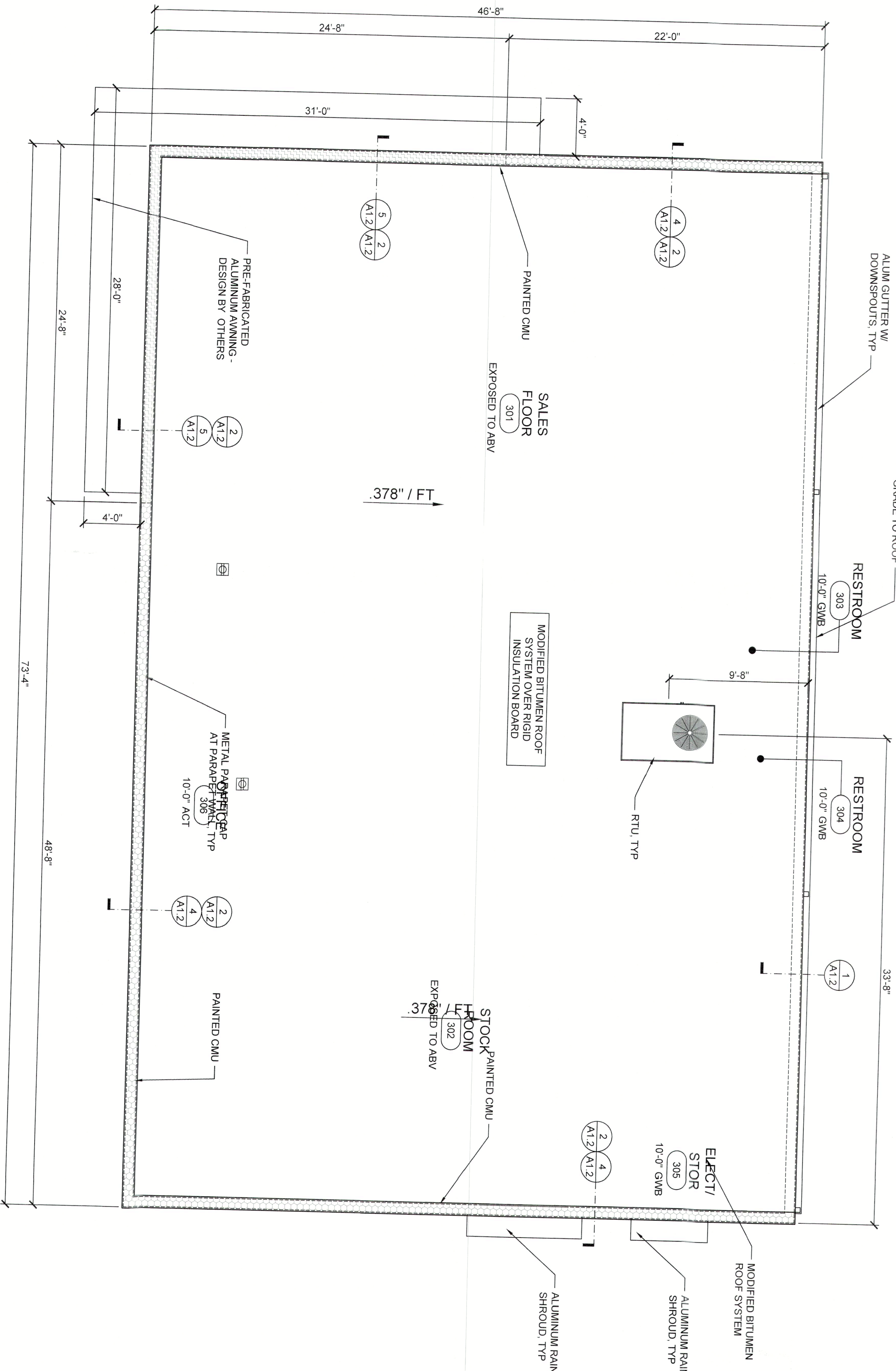
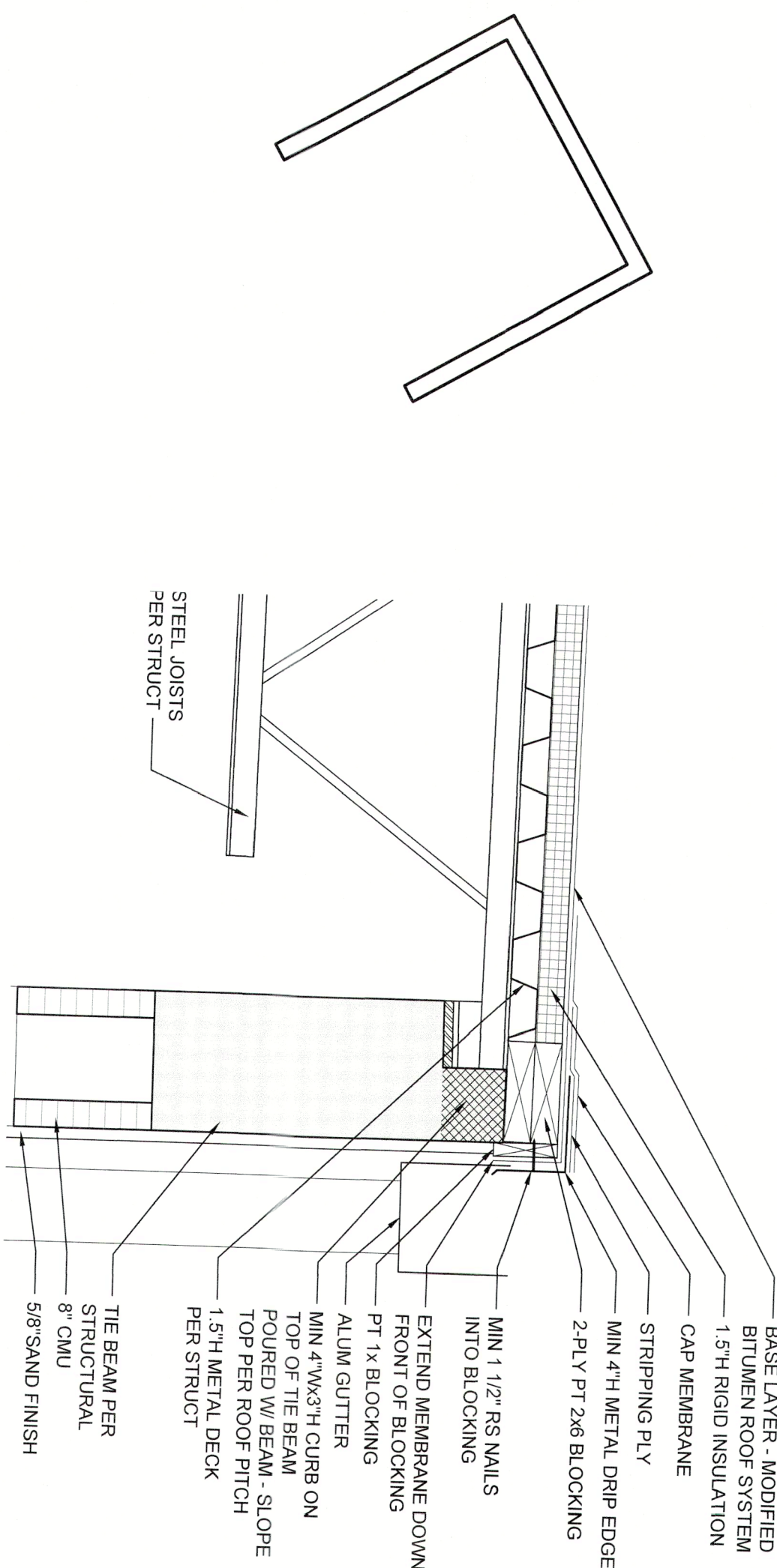


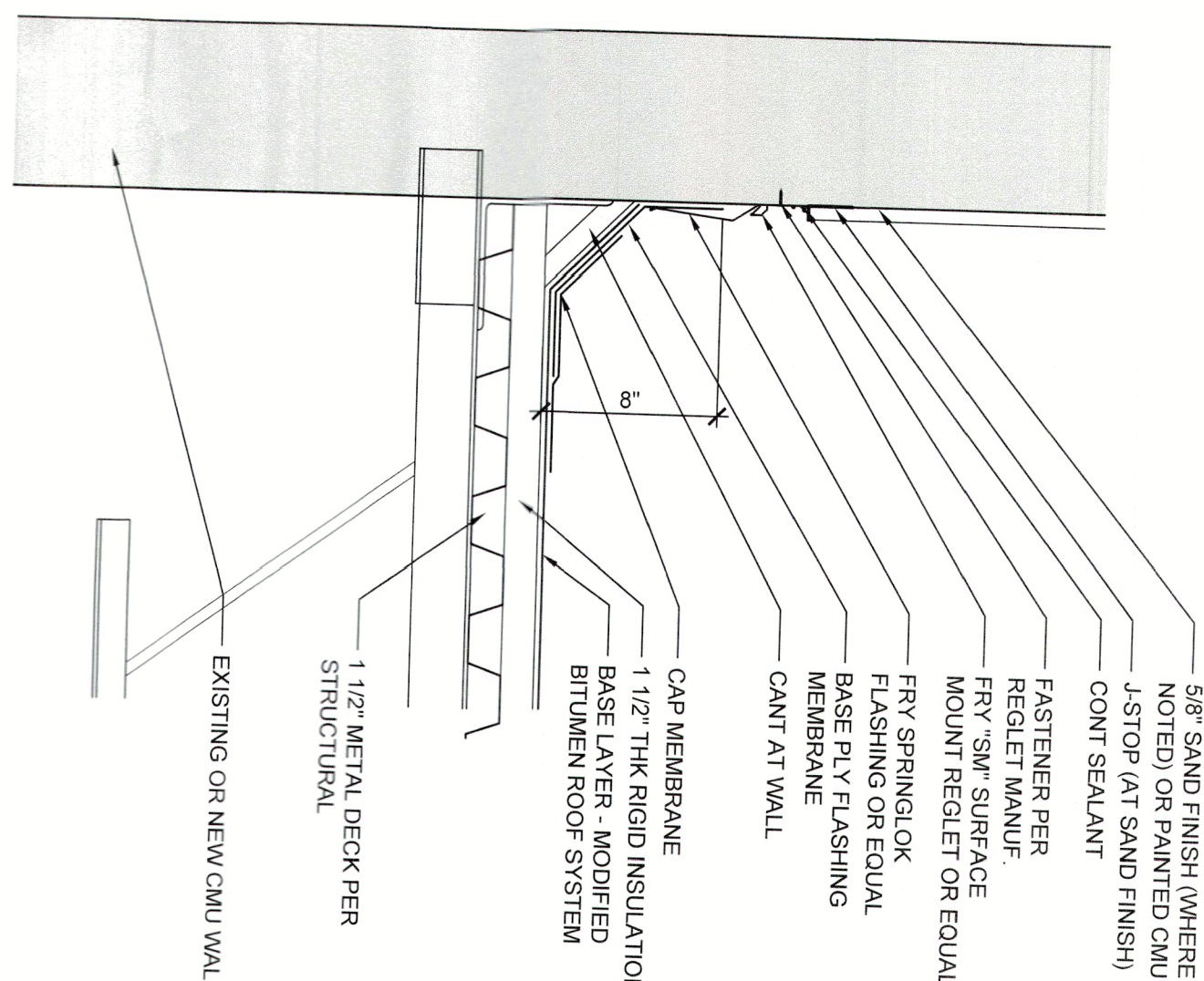
REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"



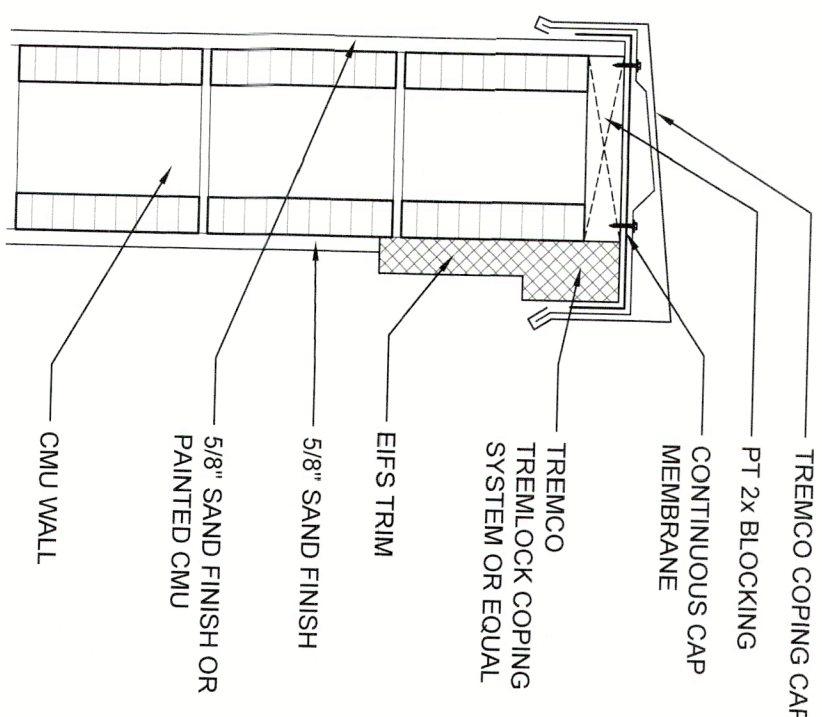
ROOF PLAN
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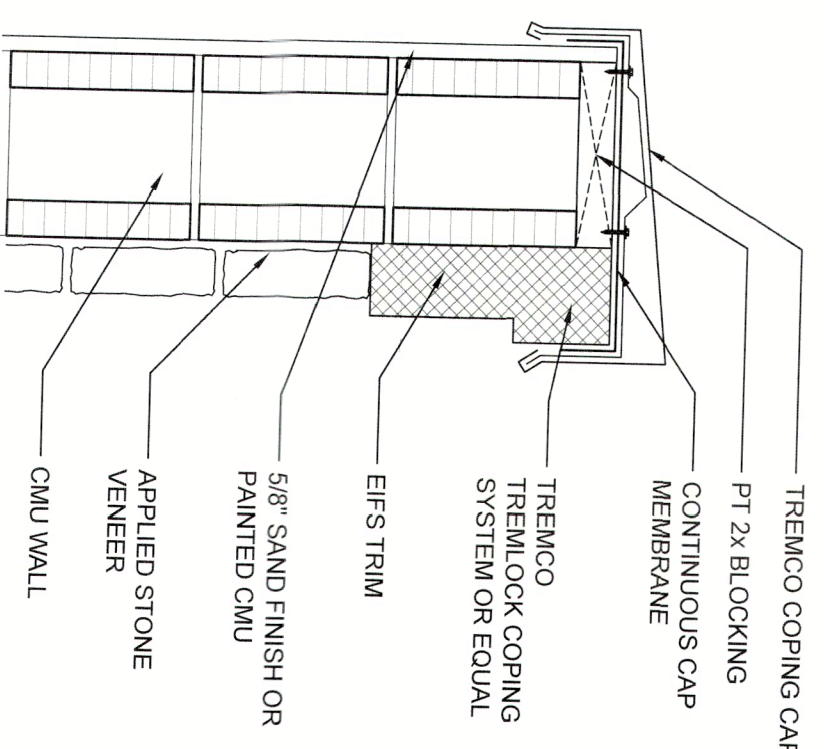
1 ROOF EDGE DETAIL
SCALE: 1 1/2" = 1'-0"



2 FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



4 PARAPET DTL (W/O STONE)
SCALE: 1 1/2" = 1'-0"



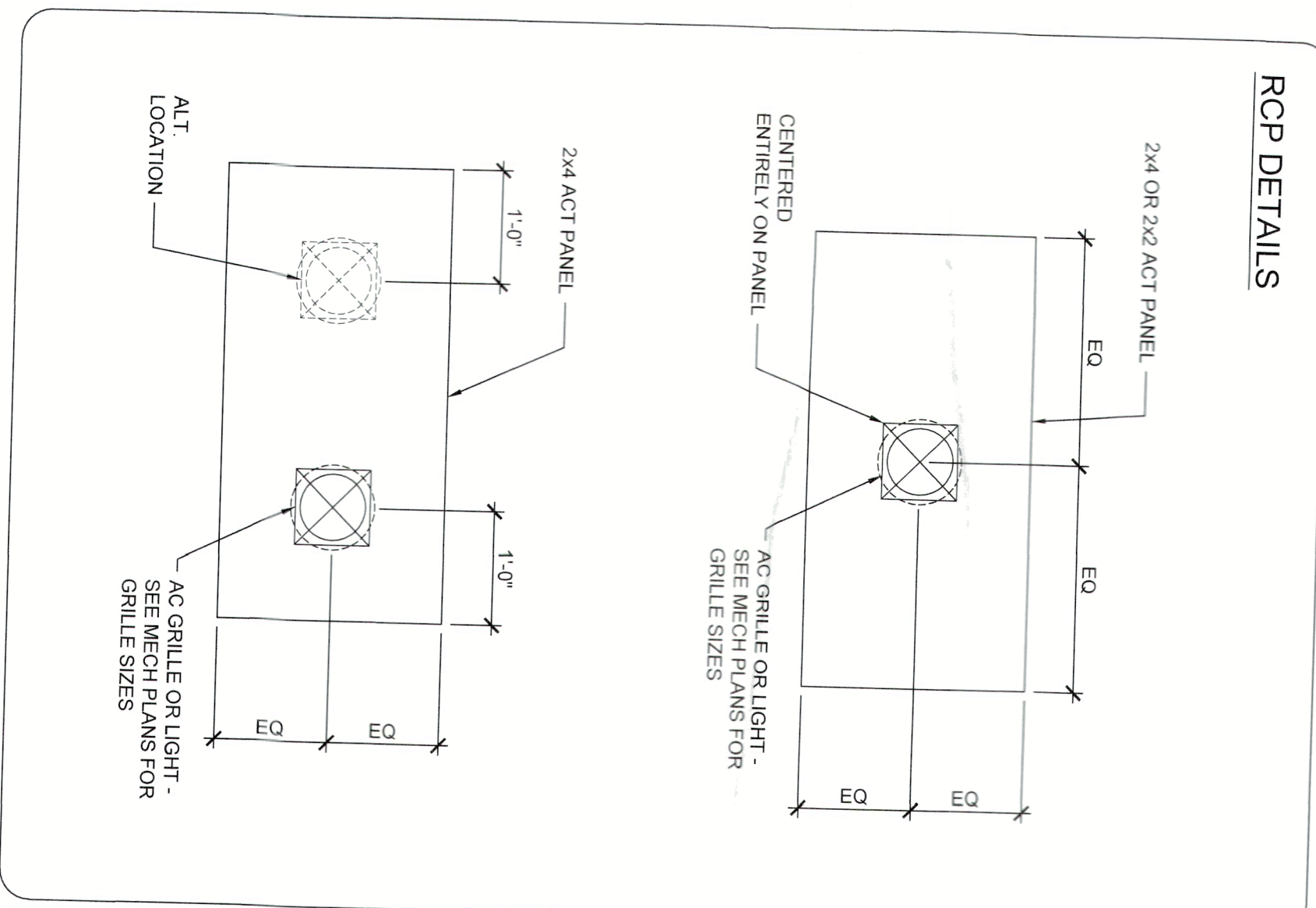
5 PARAPET DTL (W/ STONE)
SCALE: 1 1/2" = 1'-0"

- REFLECTED CEILING PLAN NOTES**
1. ALL NEW ACT TO BE 24 LAY IN TILES UNO
 2. ALL RESTROOM CEILINGS TO BE GMB
 3. SEE PLANS FOR TYPICAL CEILING HEIGHTS
 4. GRID TO BE INTERRUPTED AT EACH INTERIOR PARTITION WALL
 5. ALL RECESSED LIGHT FIXTURES SHOWN TO BE CENTERED IN THE CEILING TILE

CEILING LEGEND

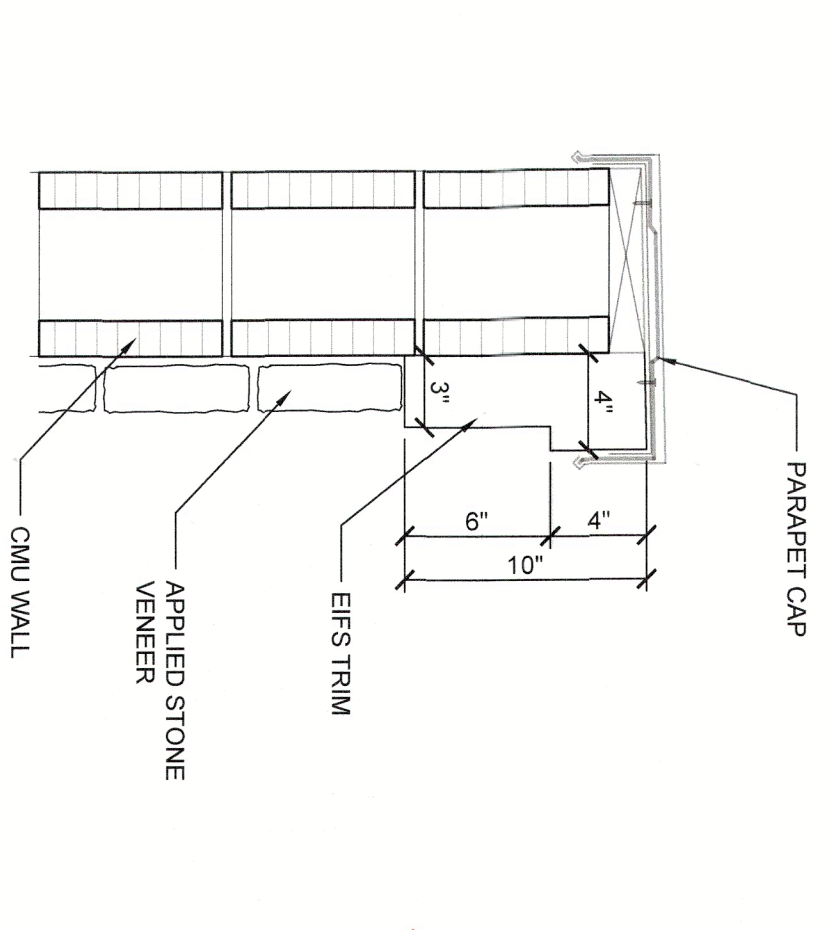
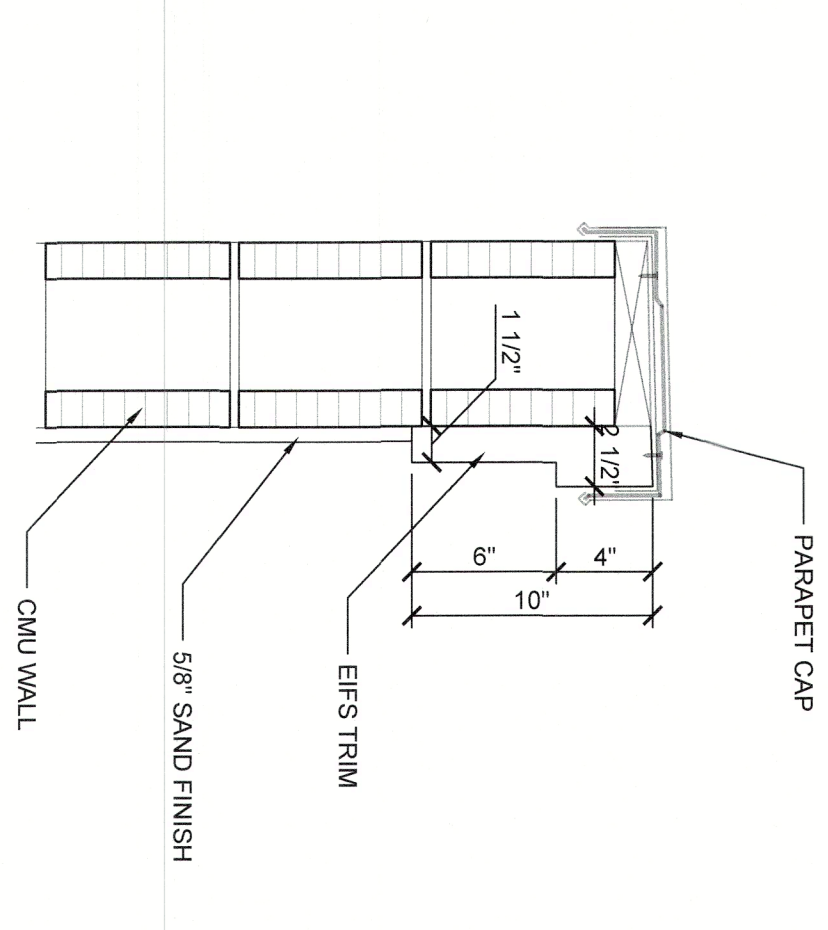
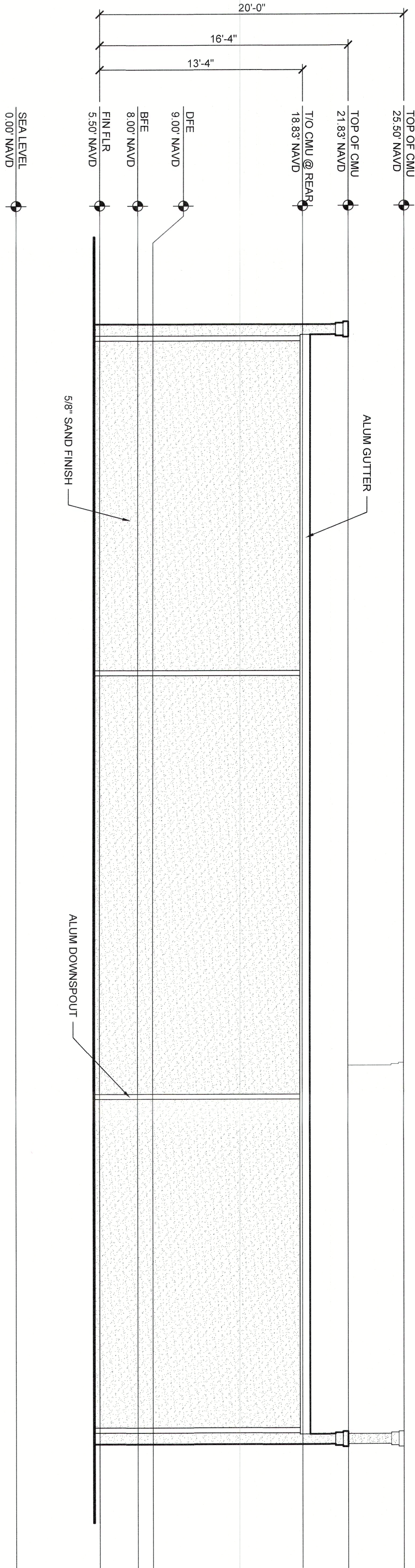
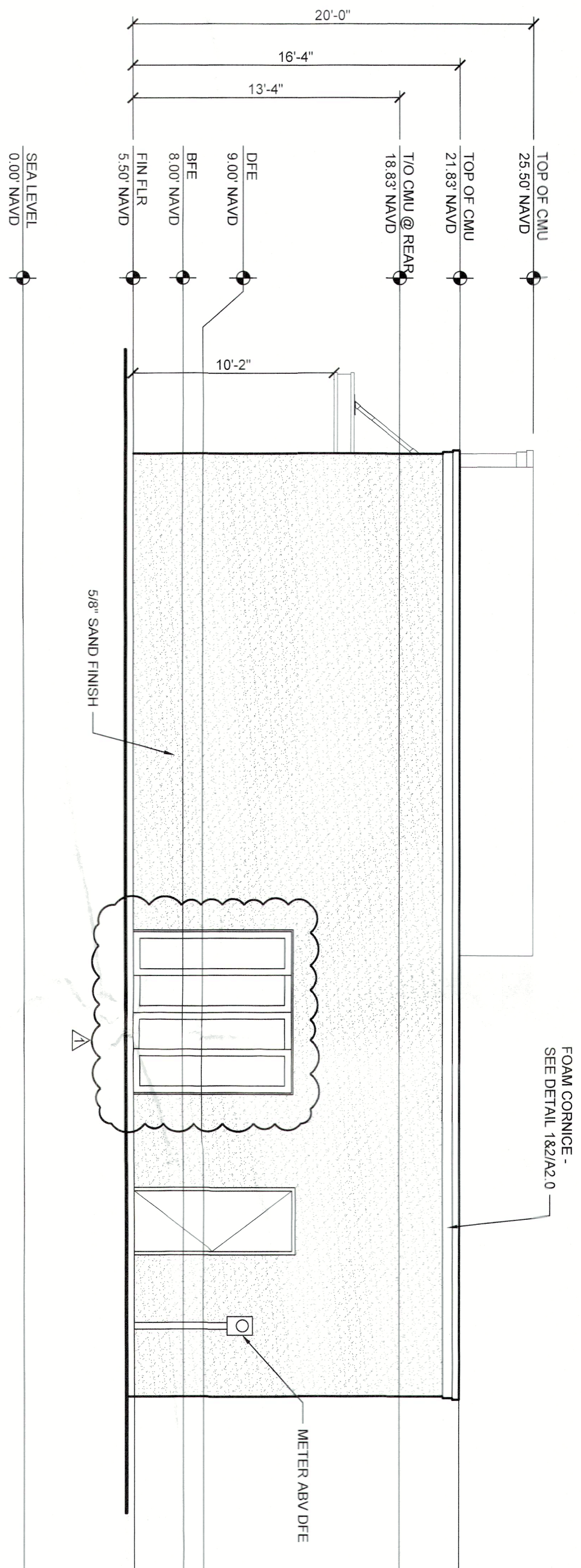
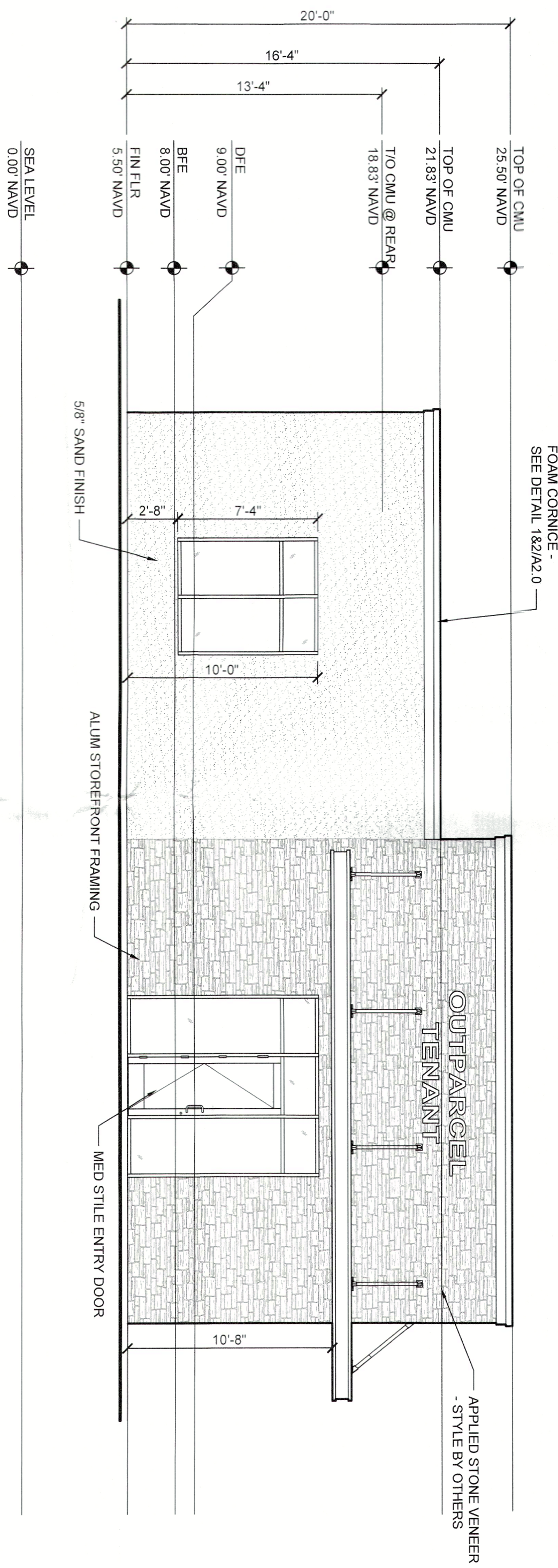
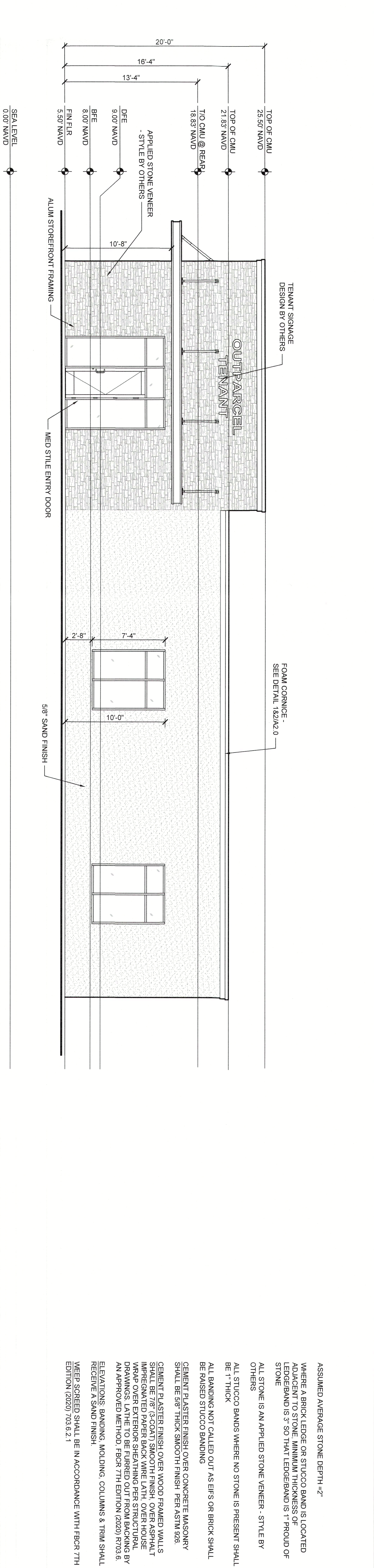
- RECESSED LED LIGHT
- DIRECTIONAL EXIT LIGHT - SHARED AREA INDICATES ILLUMINATED FACE
- EXIT SIGNAGE
- 24 LAY IN LIGHT FIXTURE
- 24 AC SUPPLY GRILLE
- 24 EXHAUST FAN GRILLE
- SPRINKLER HEAD
- WALL MOUNTED LIGHT PACK
- LED STRIP FIXTURE

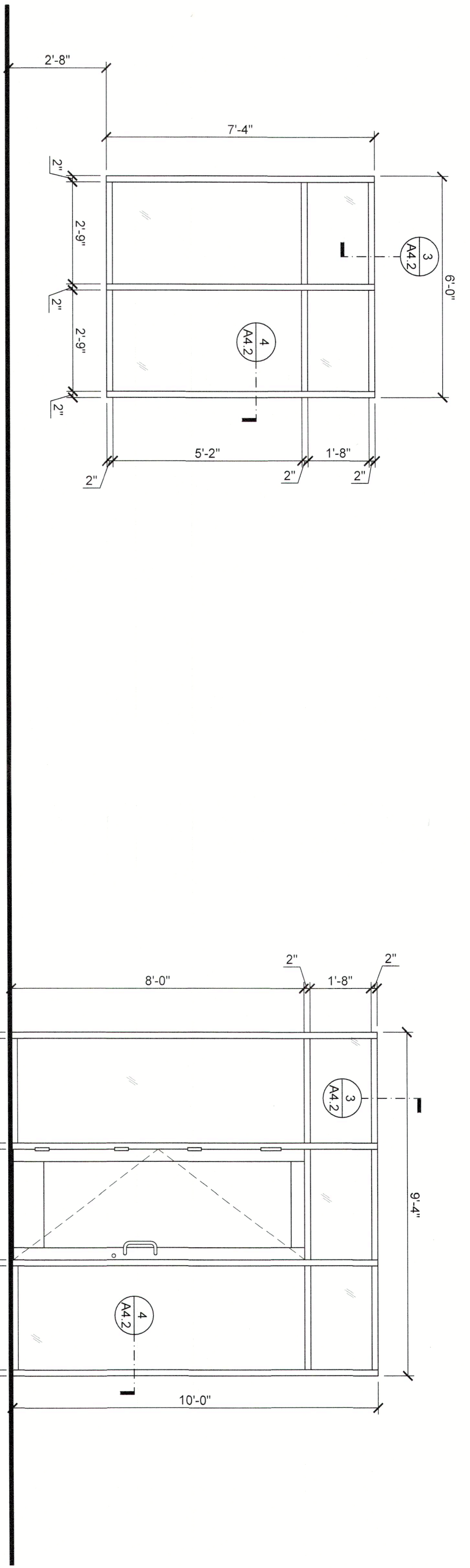
RCP DETAILS



BEARING HEIGHT LEGEND

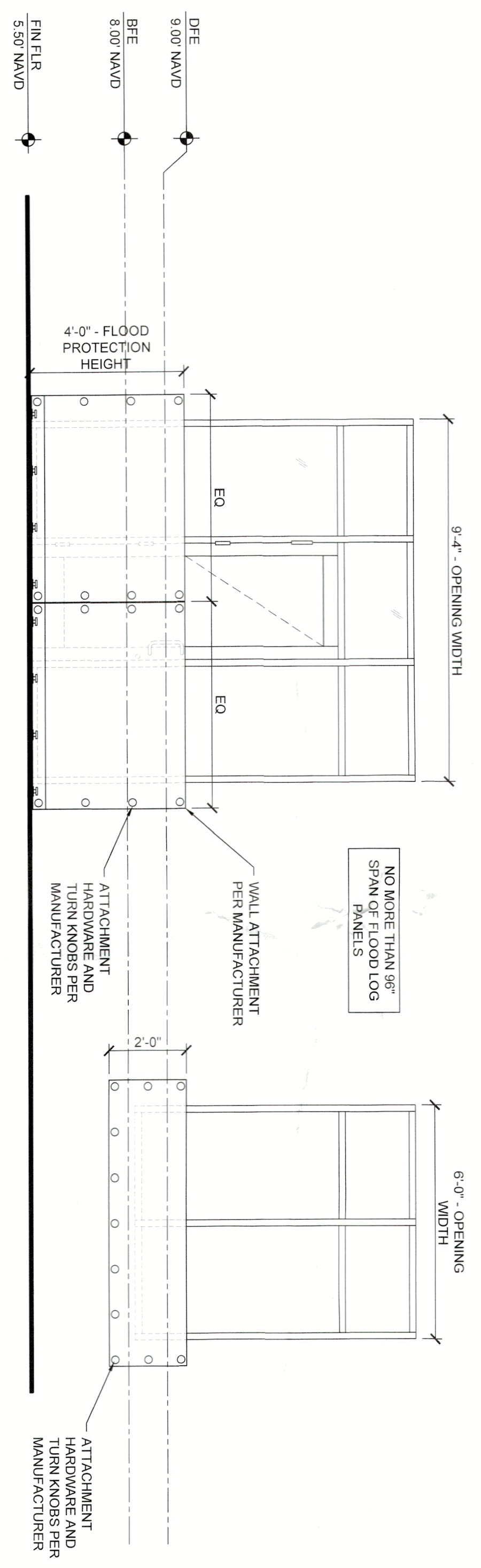
- INDICATES TOP OF CMU AT 20'-0" AFF
- INDICATES TOP OF CMU AT 16'-4" AFF
- INDICATES TOP OF CMU AT 13'-4" AFF



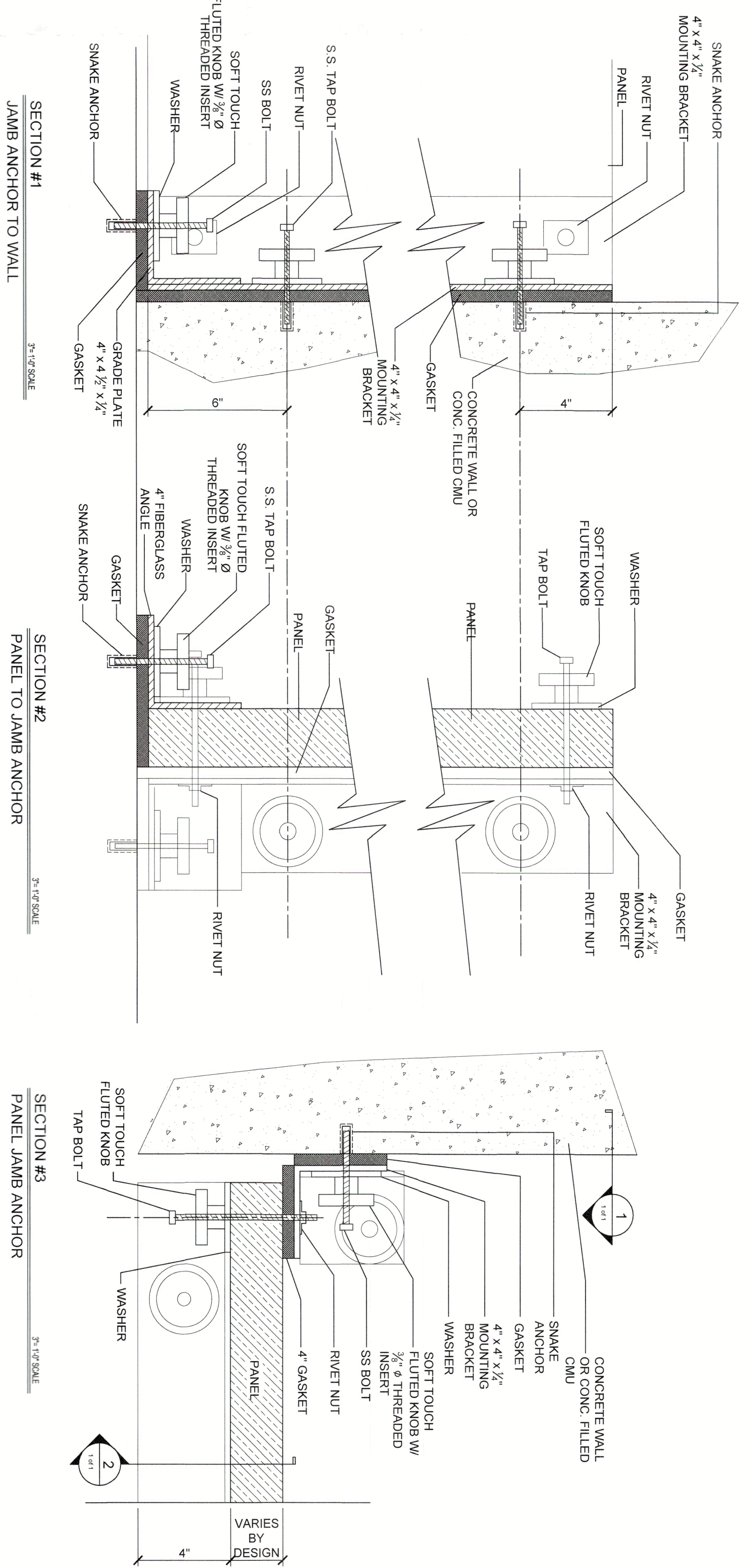


STOREFRONT TYPE "A"
SCALE: 3/8" = 1'-0"

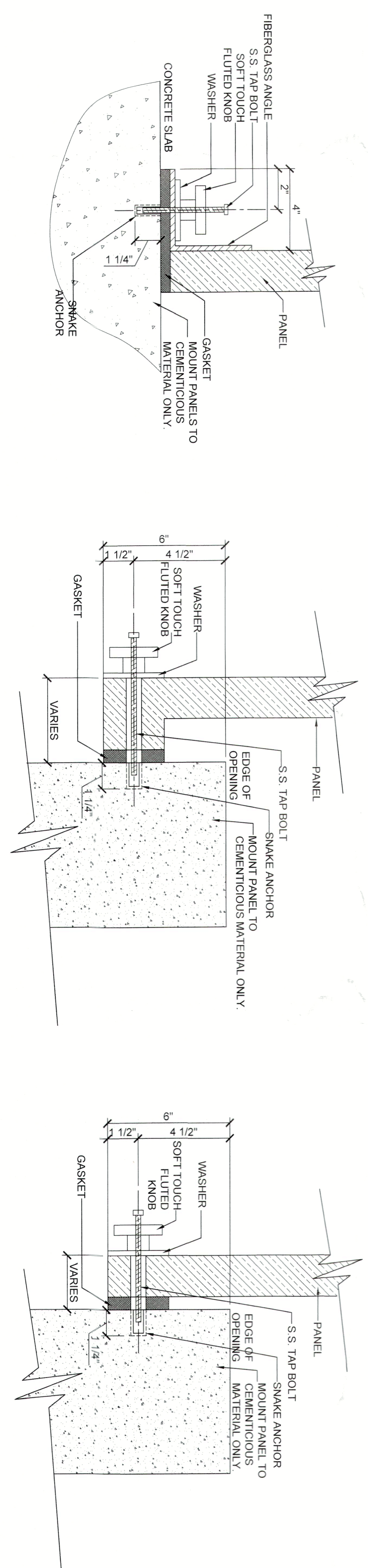
STOREFRONT TYPE "B"
SCALE: 3/8" = 1'-0"



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.



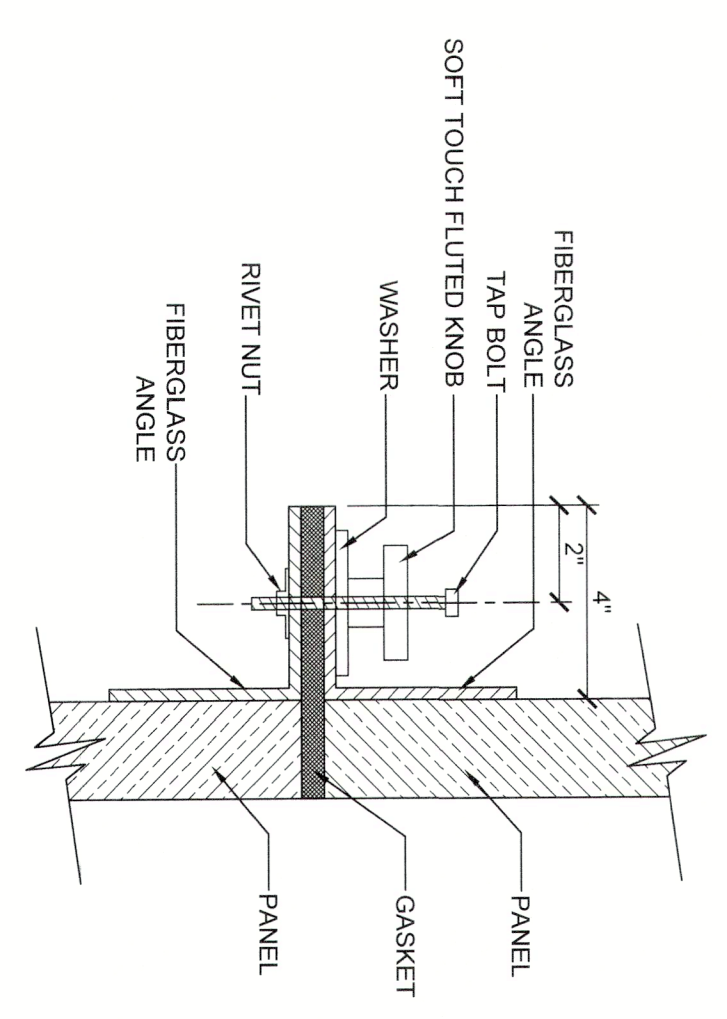
CONNECTION DETAIL
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CONNECTION DETAIL
SCALE: 3" = 1'-0"

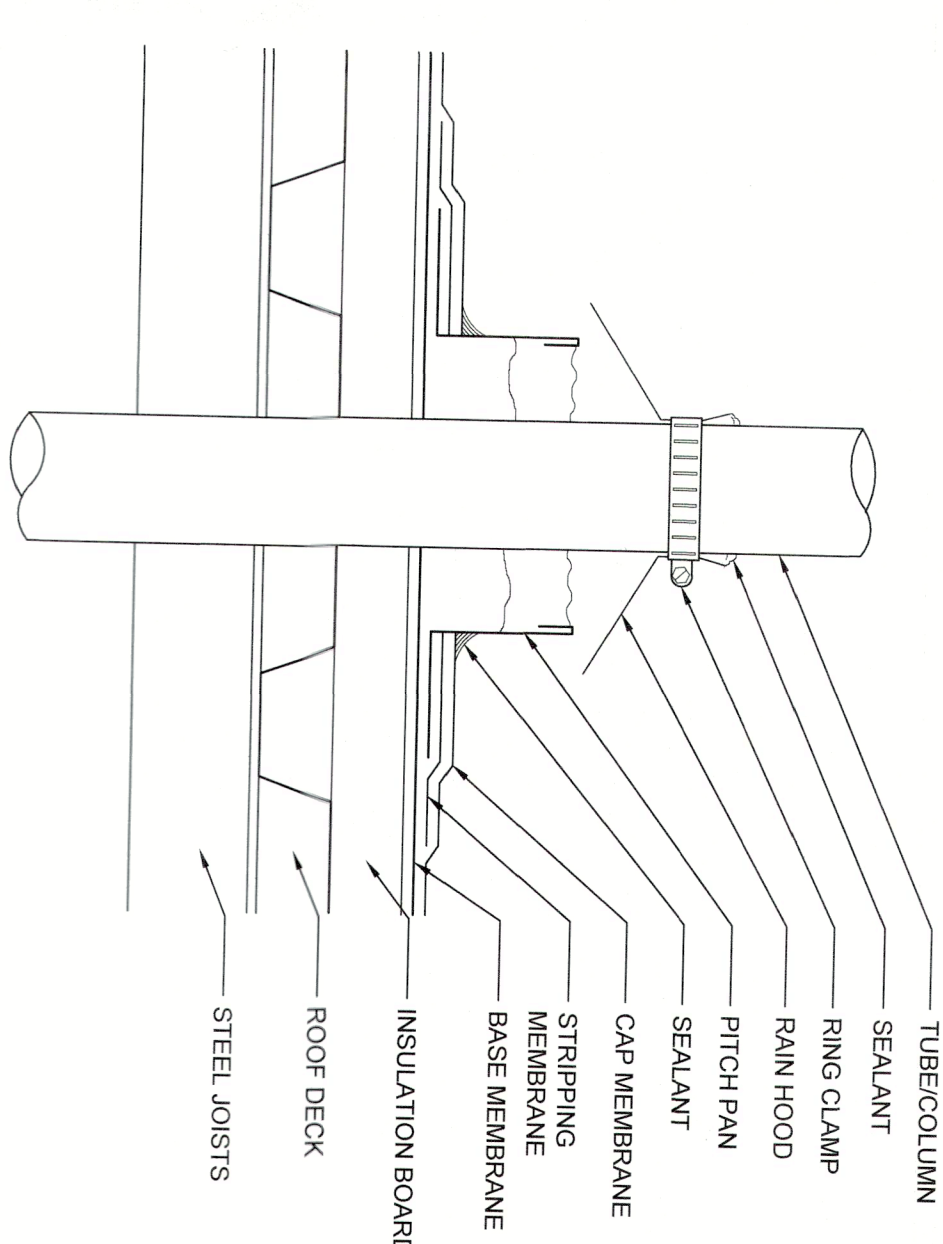
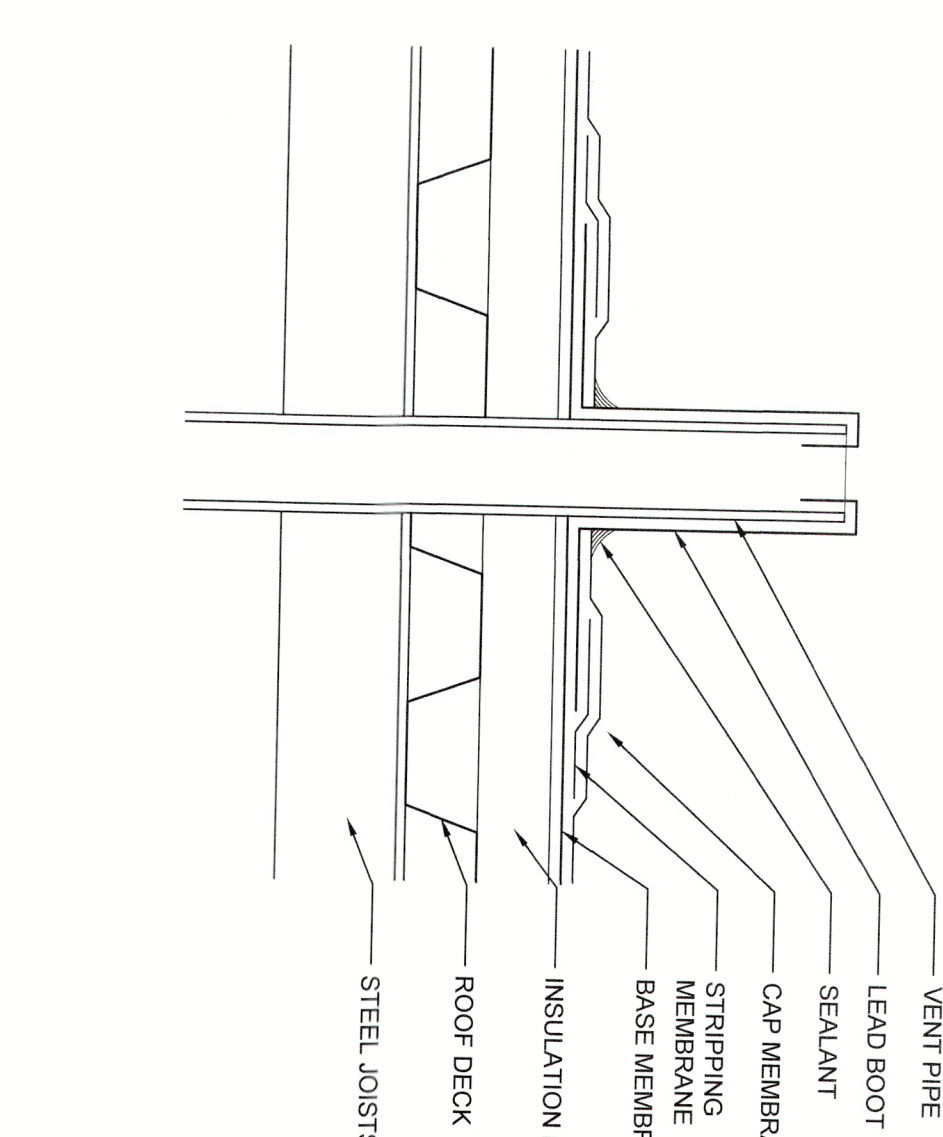
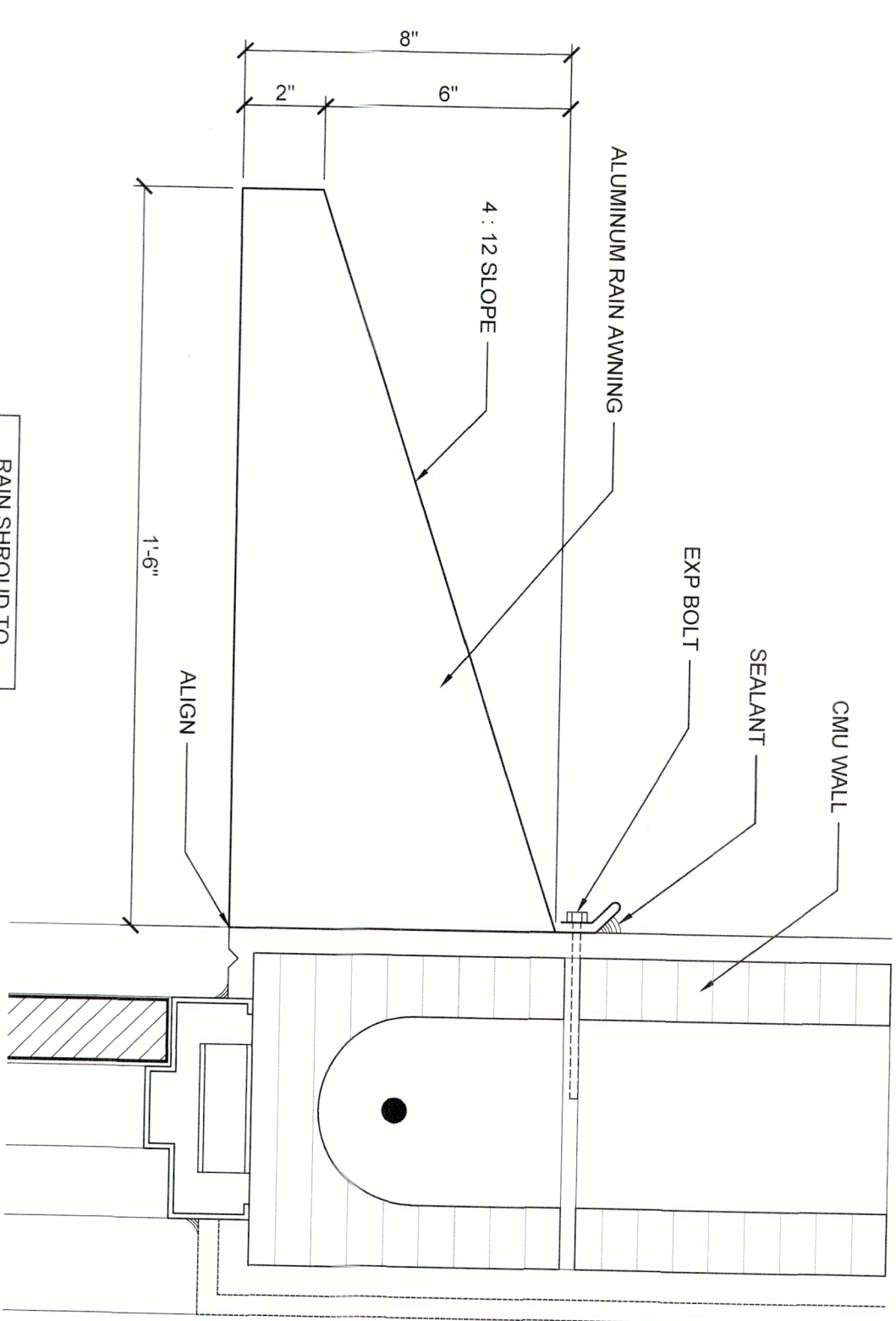
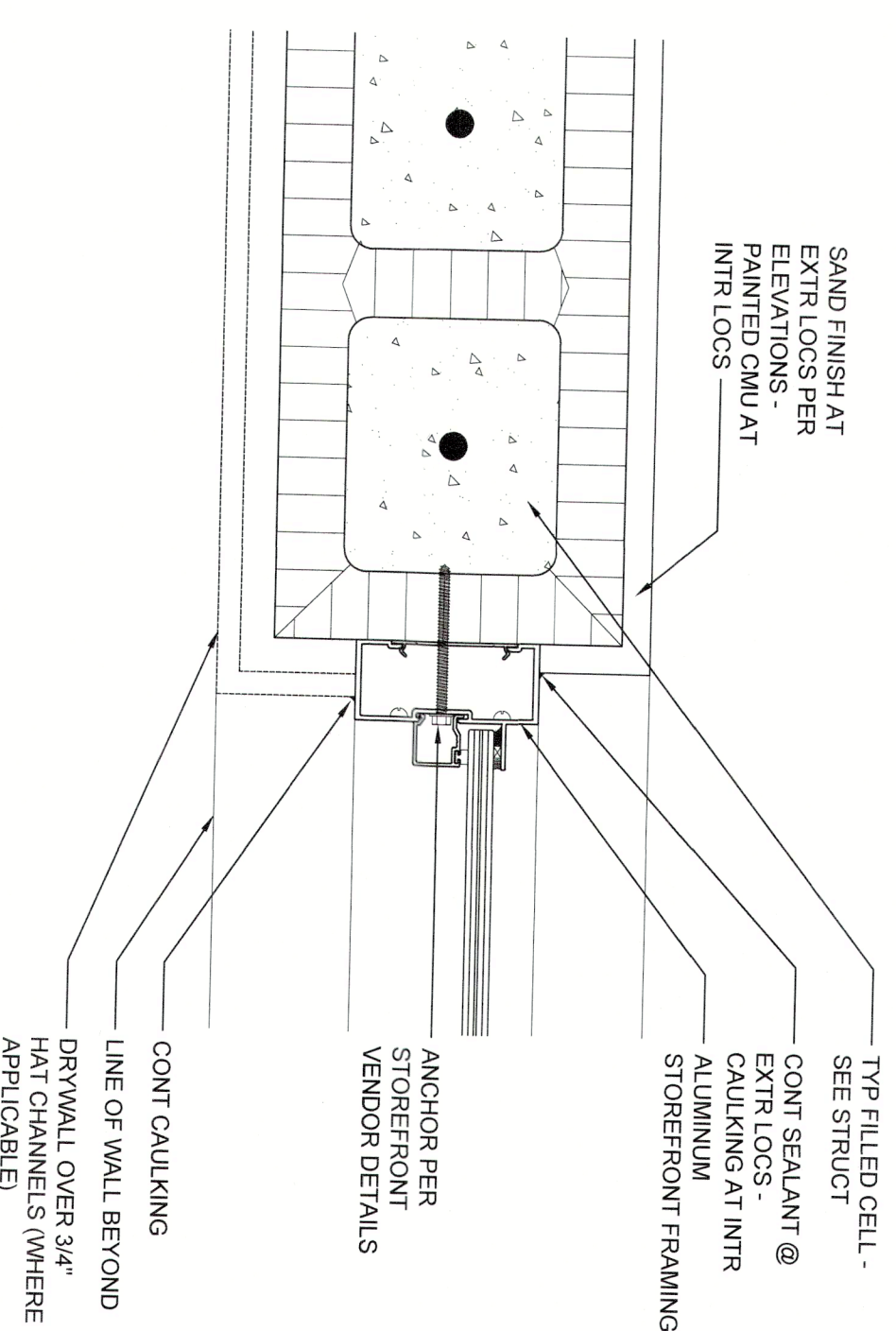
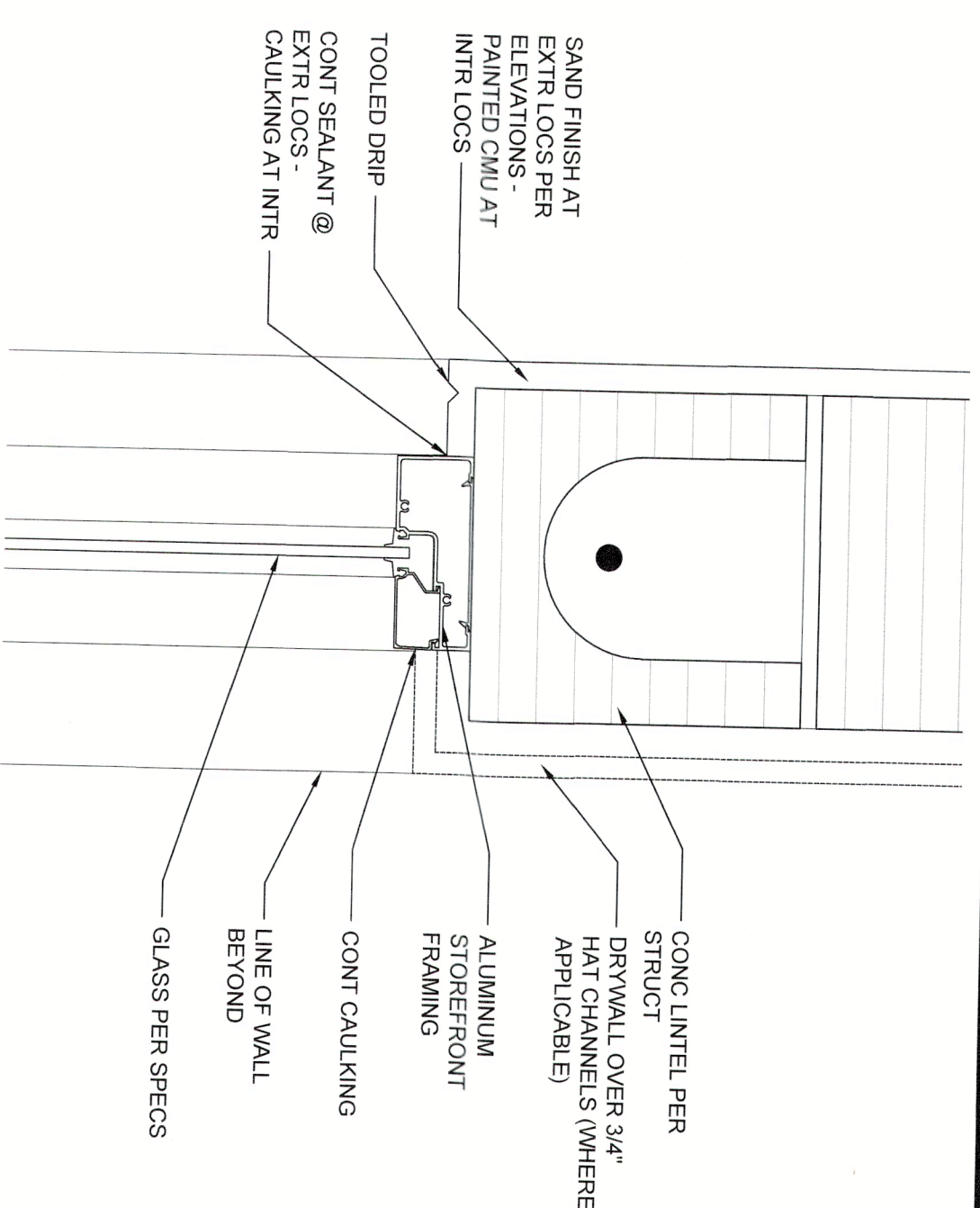
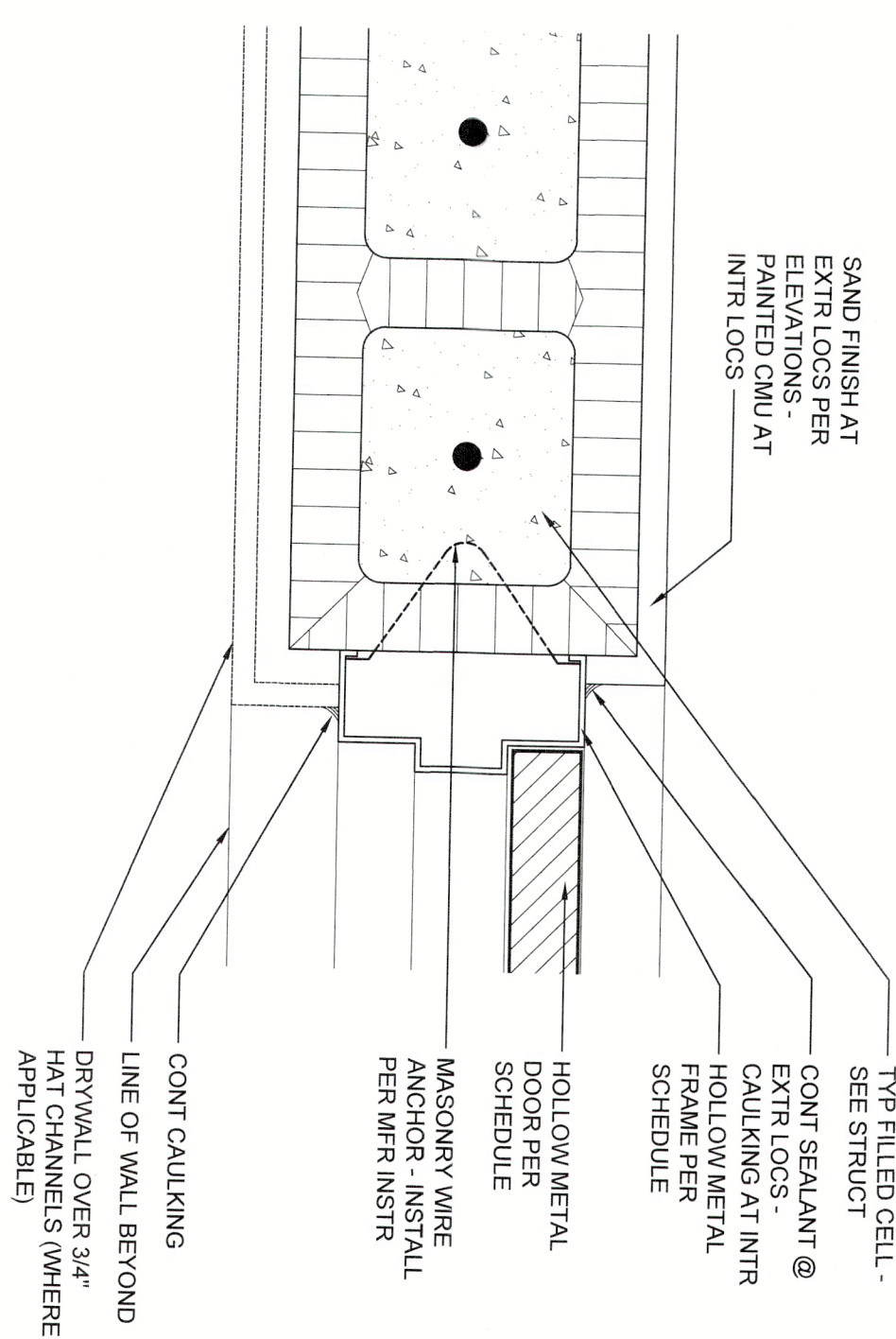
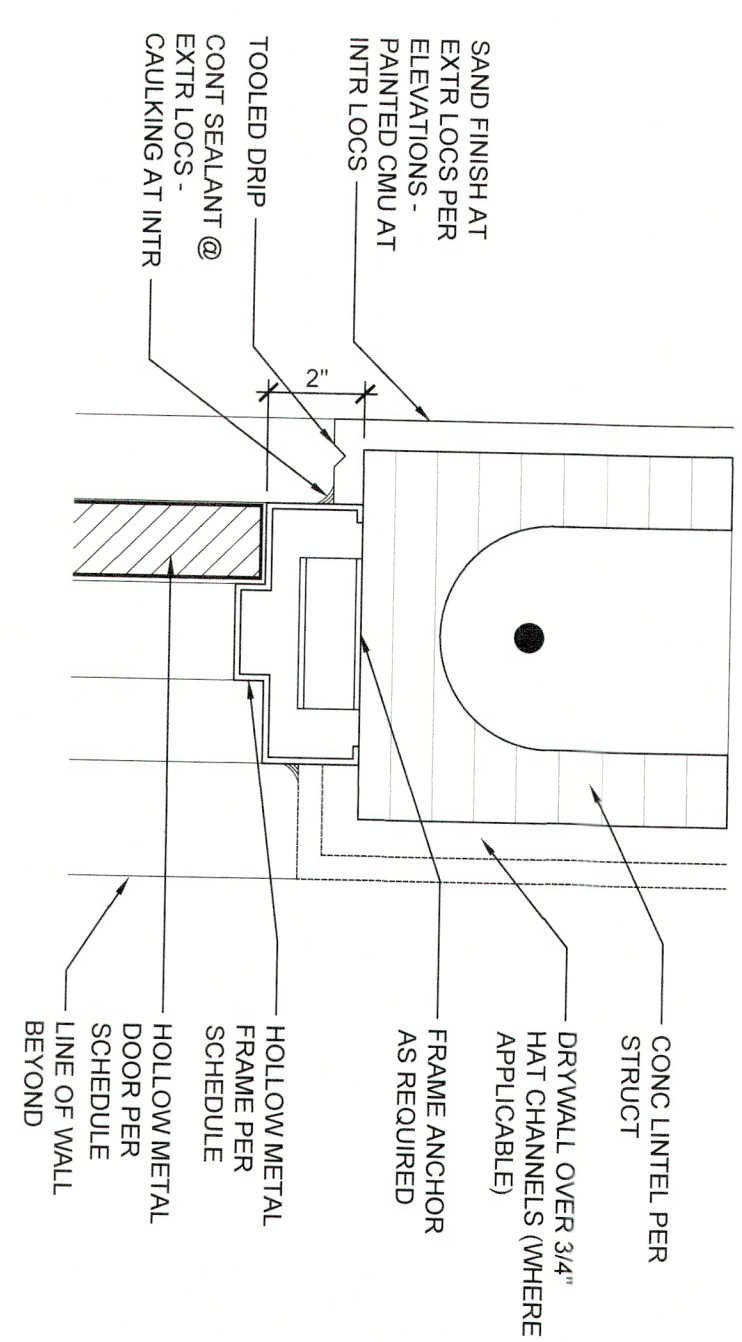
CONNECTION DETAIL
SCALE: 3" = 1'-0"

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



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

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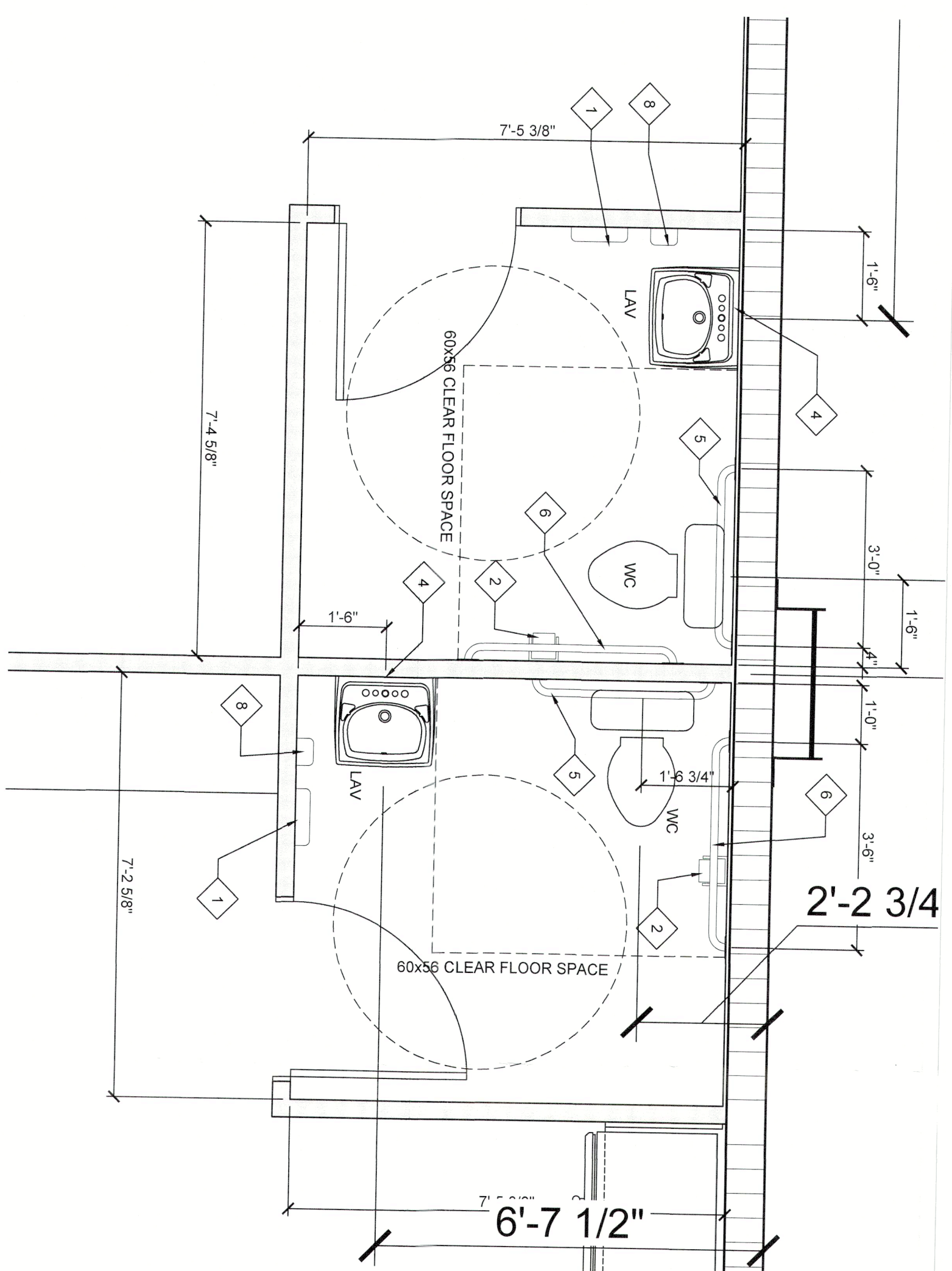
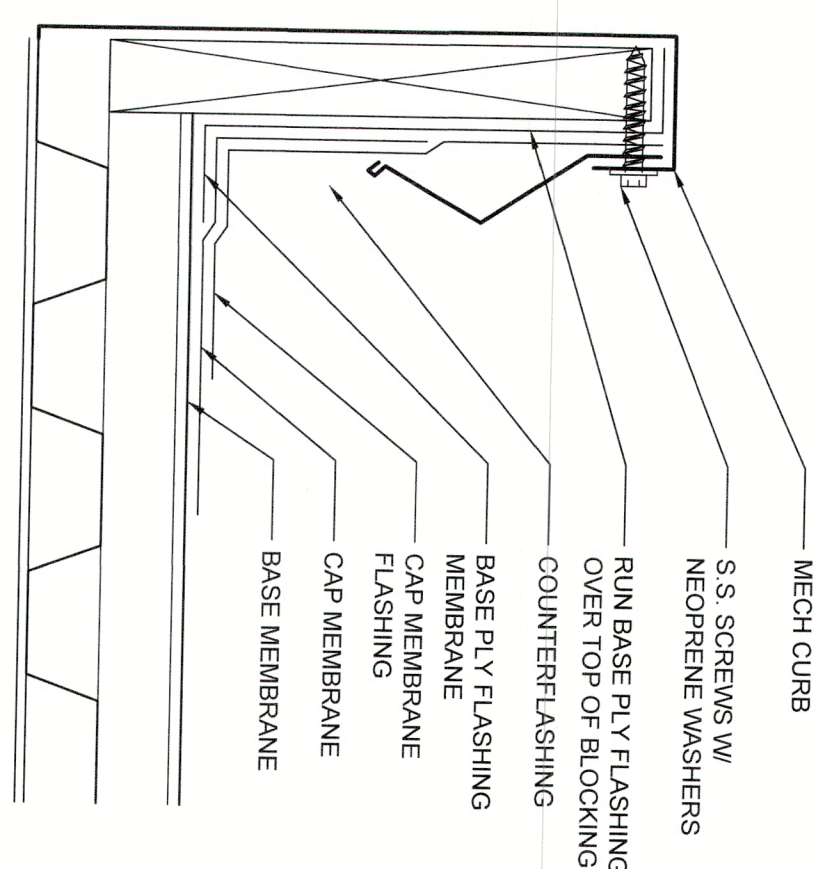
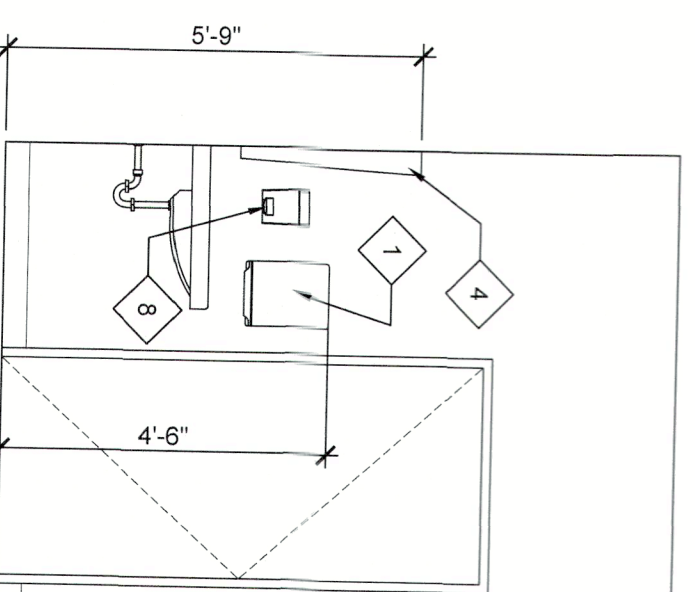
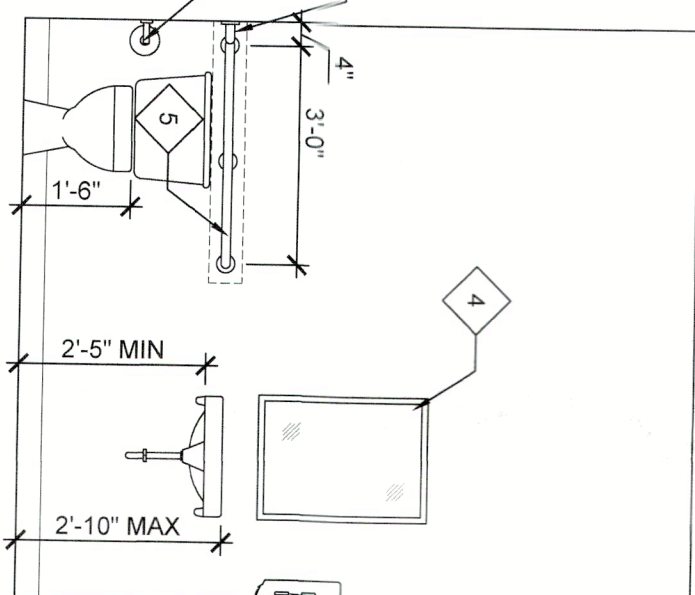
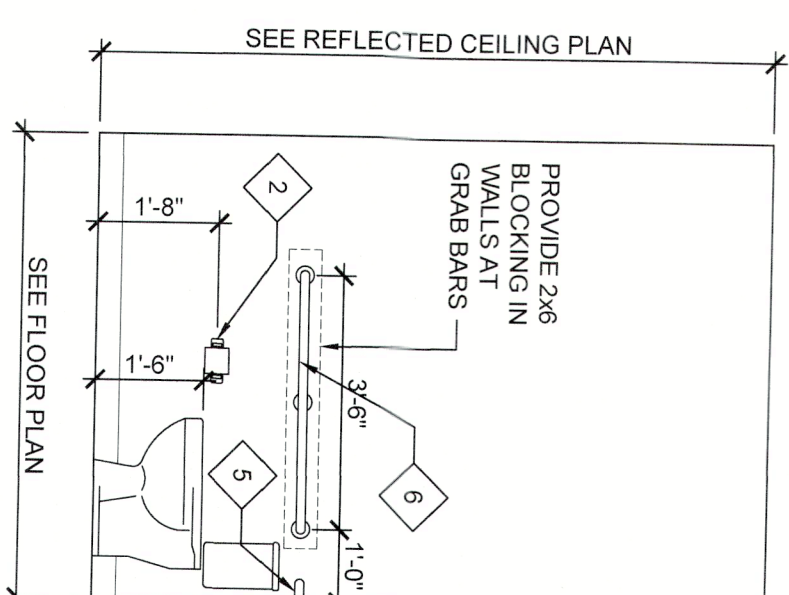
RESTROOM GENERAL NOTES

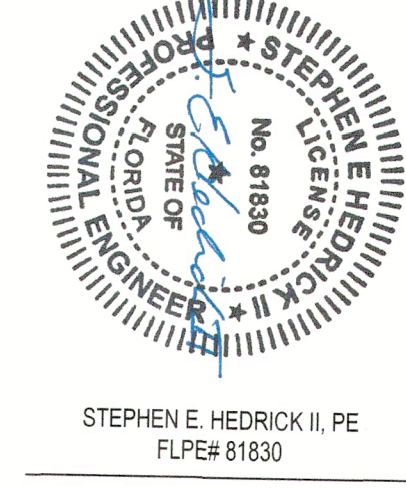
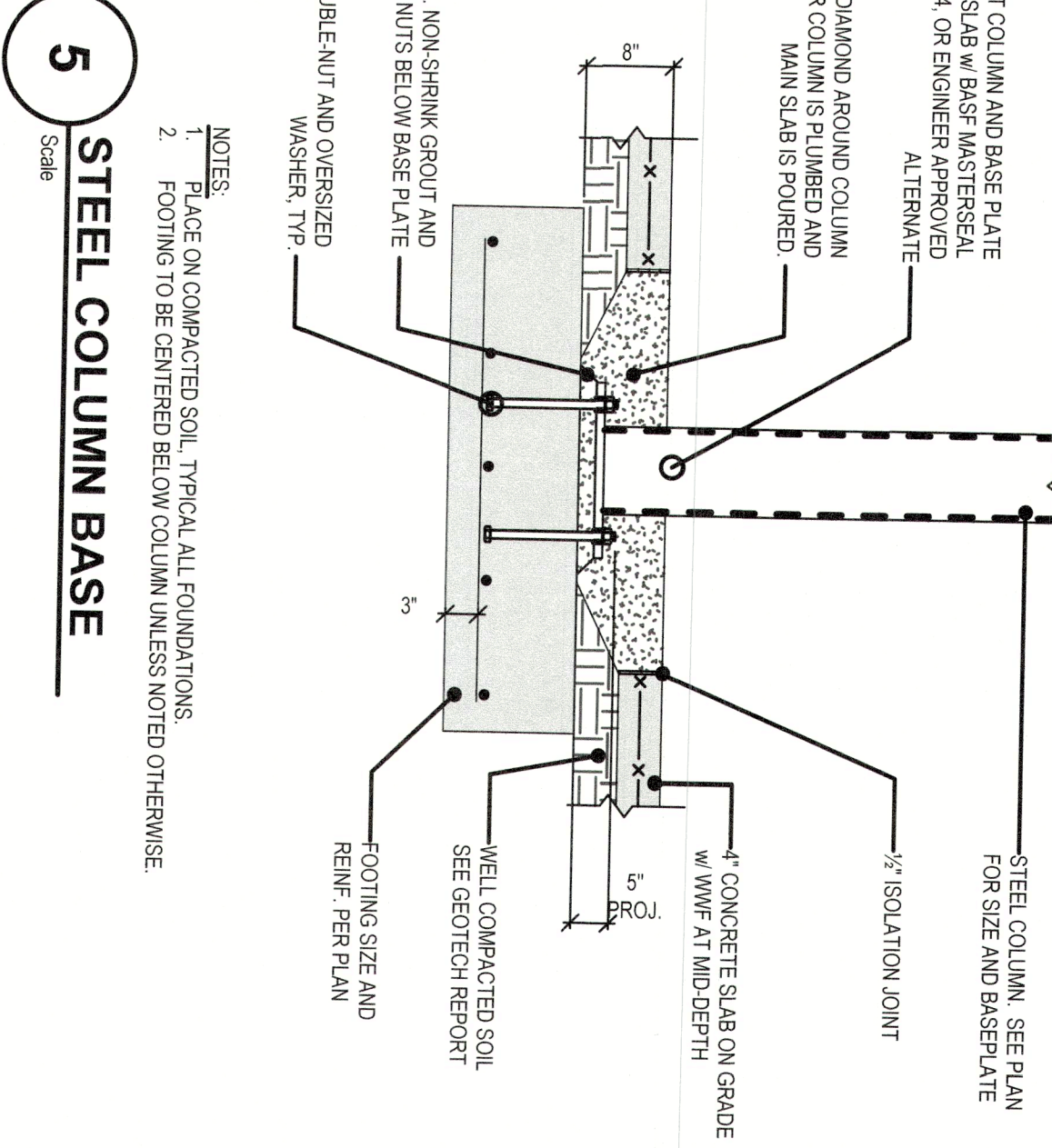
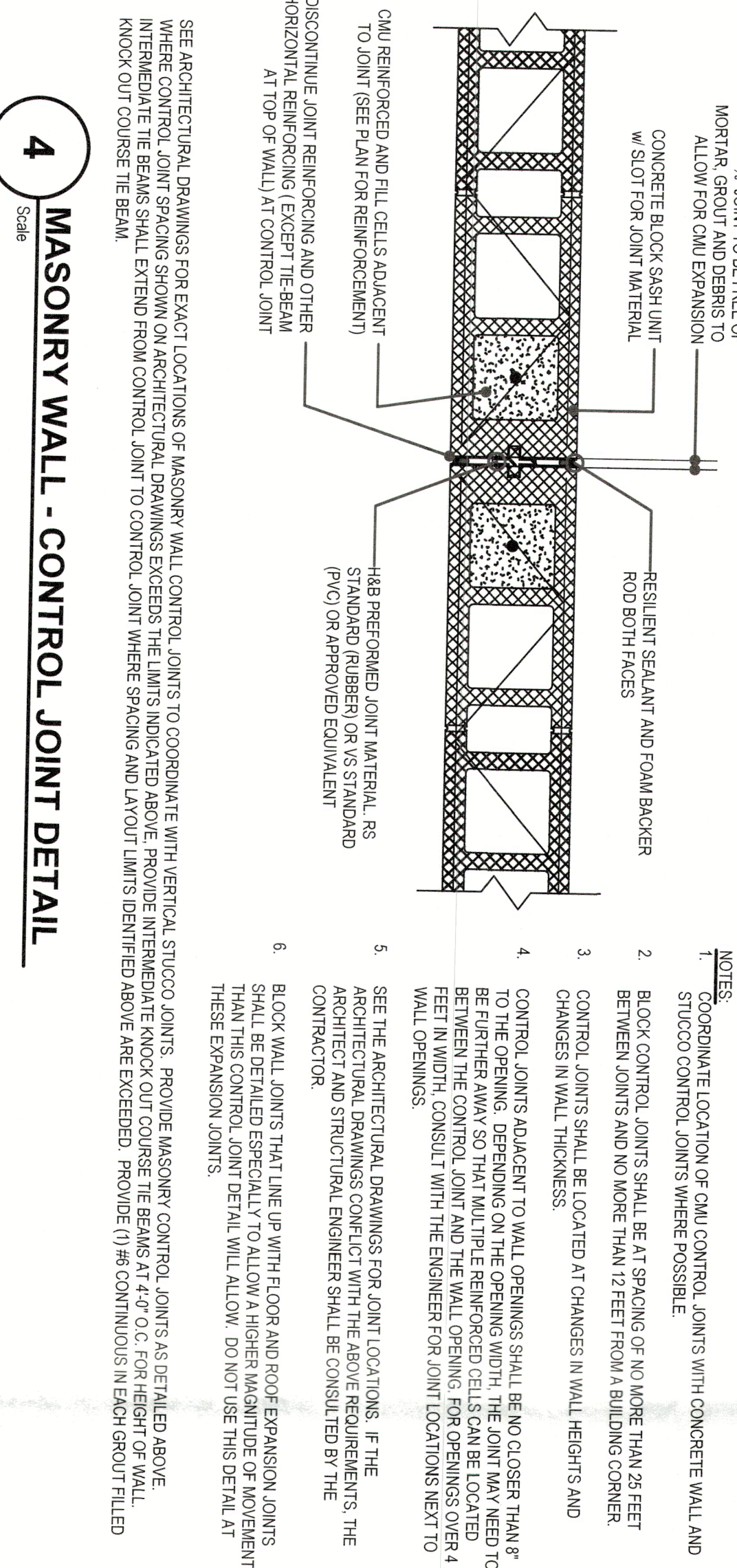
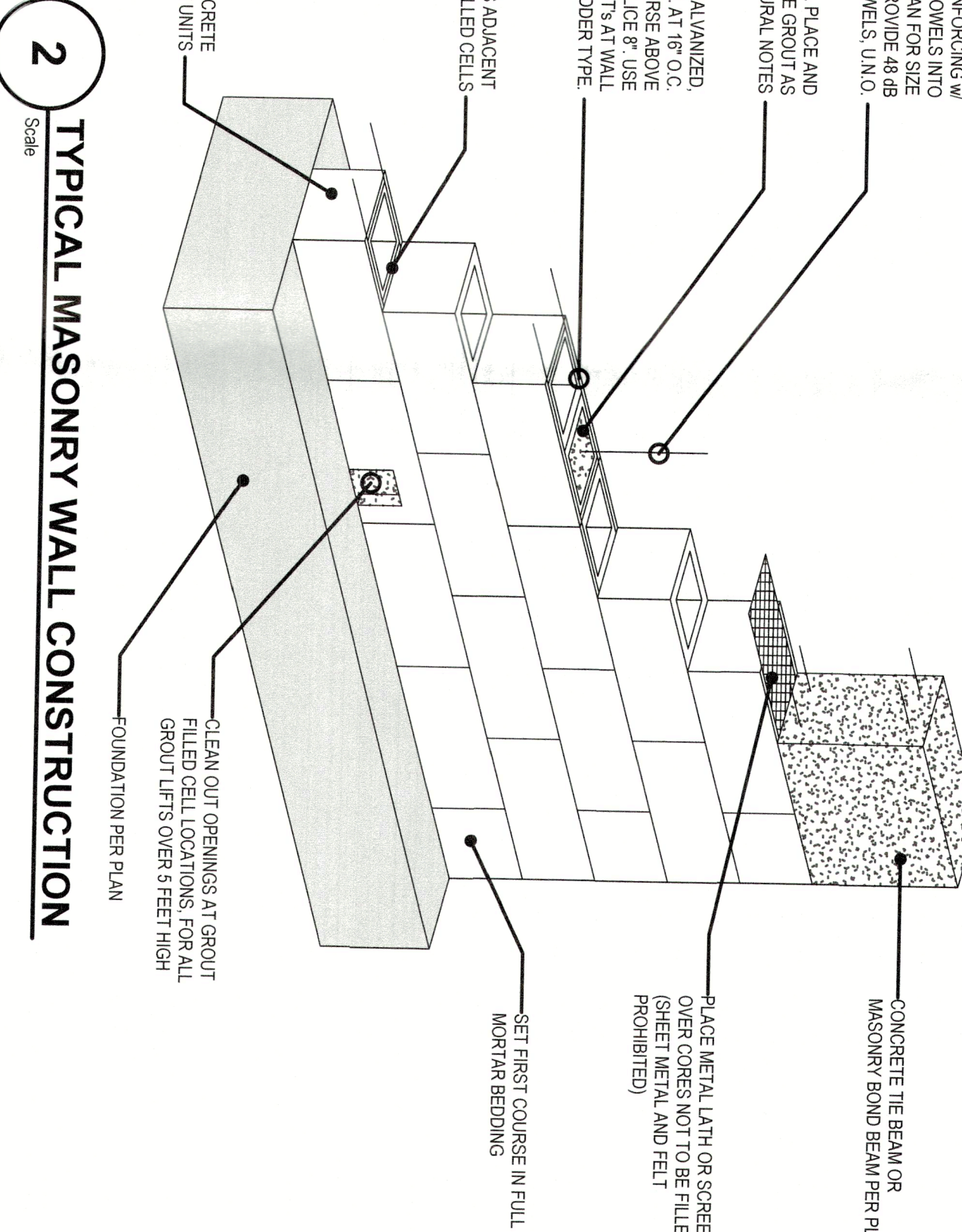
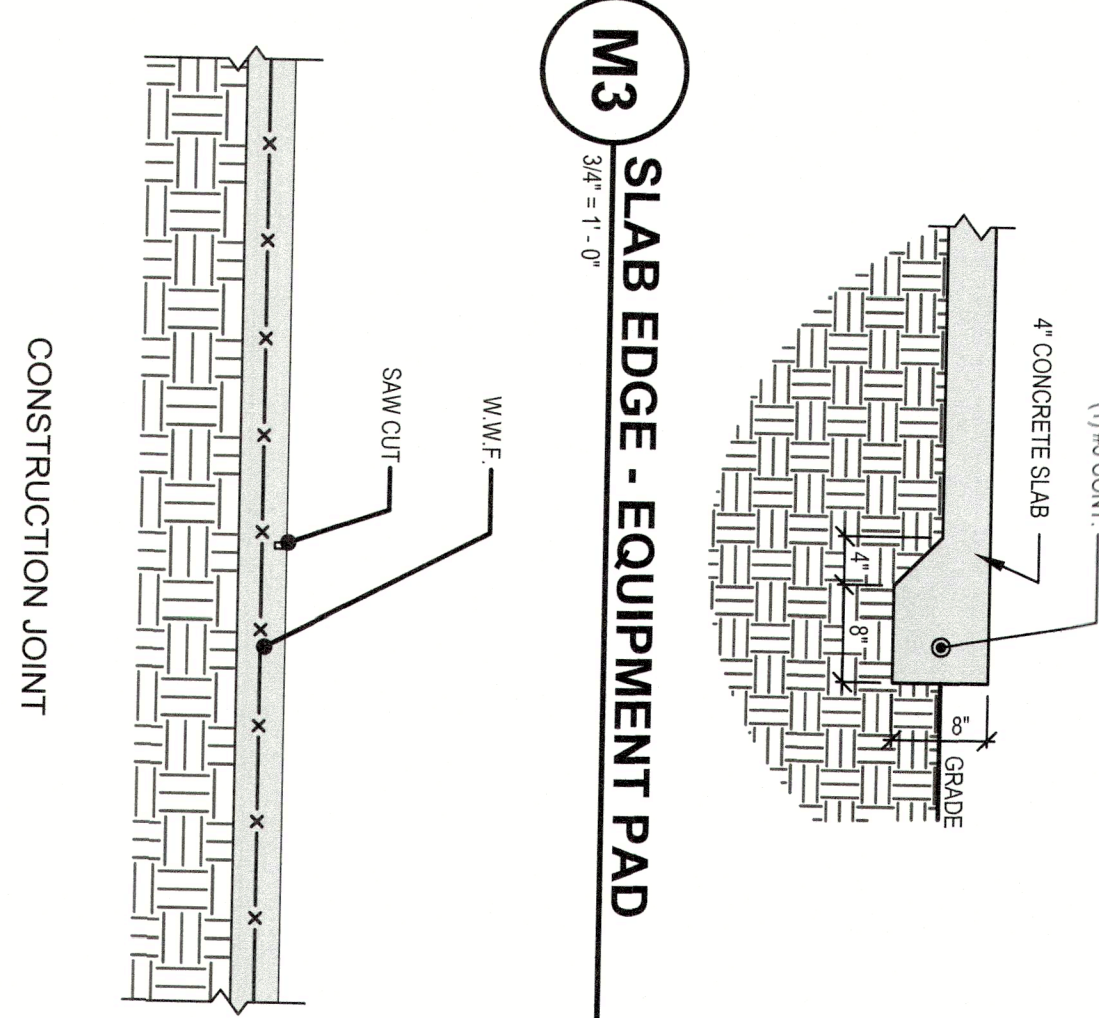
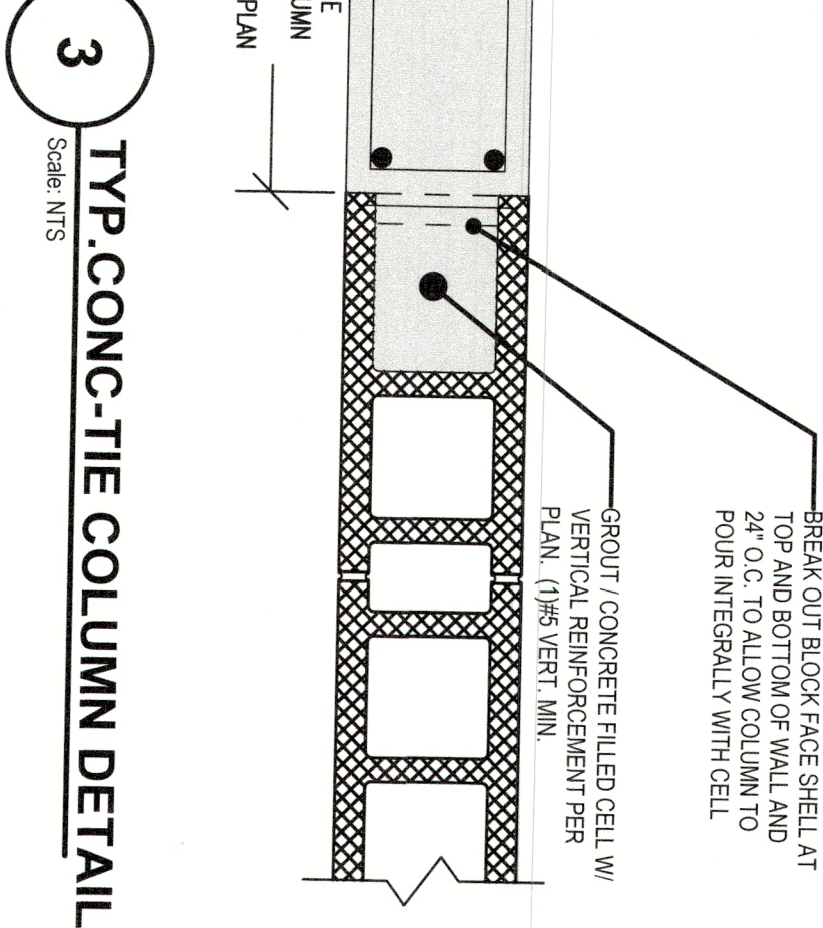
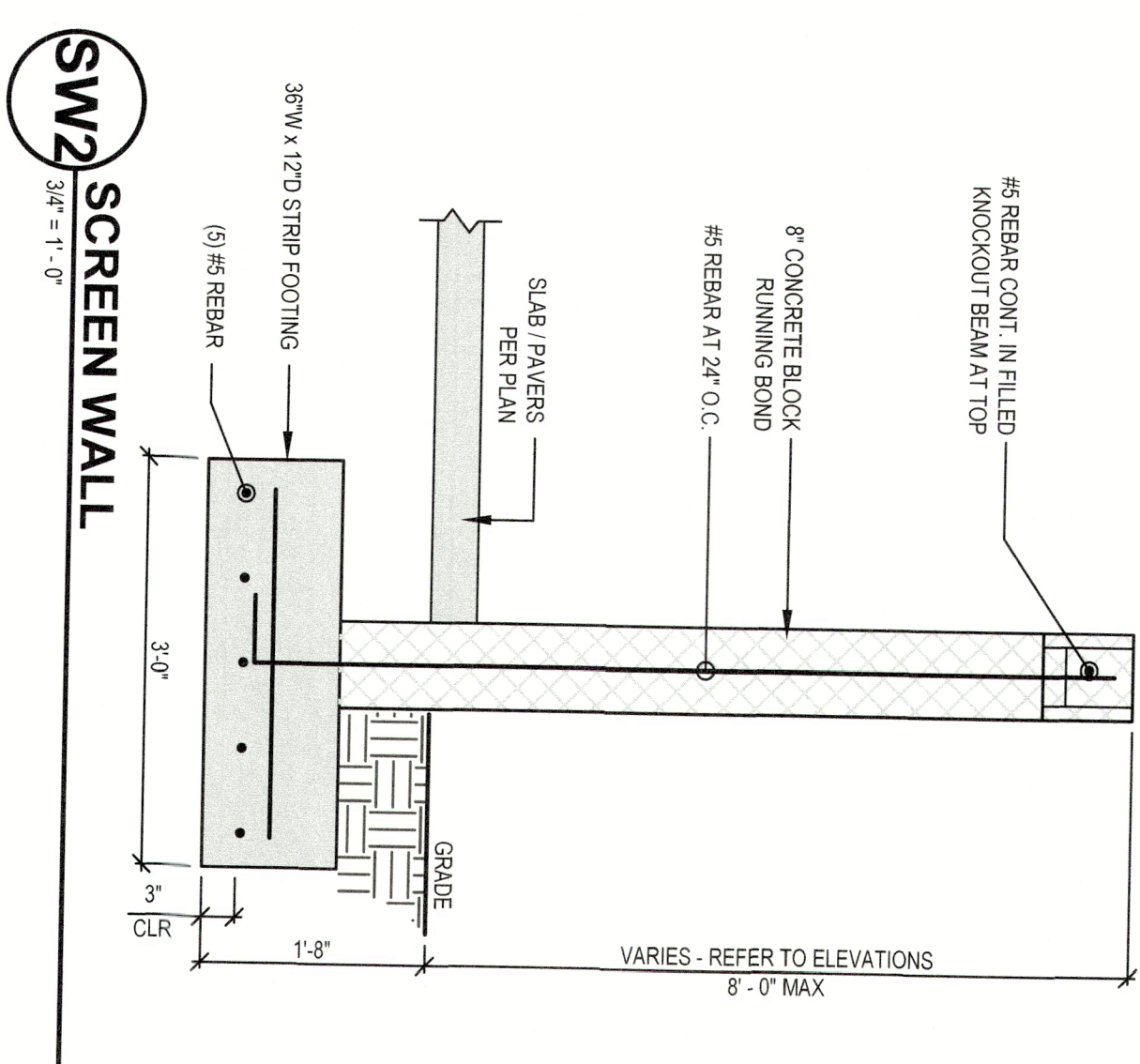
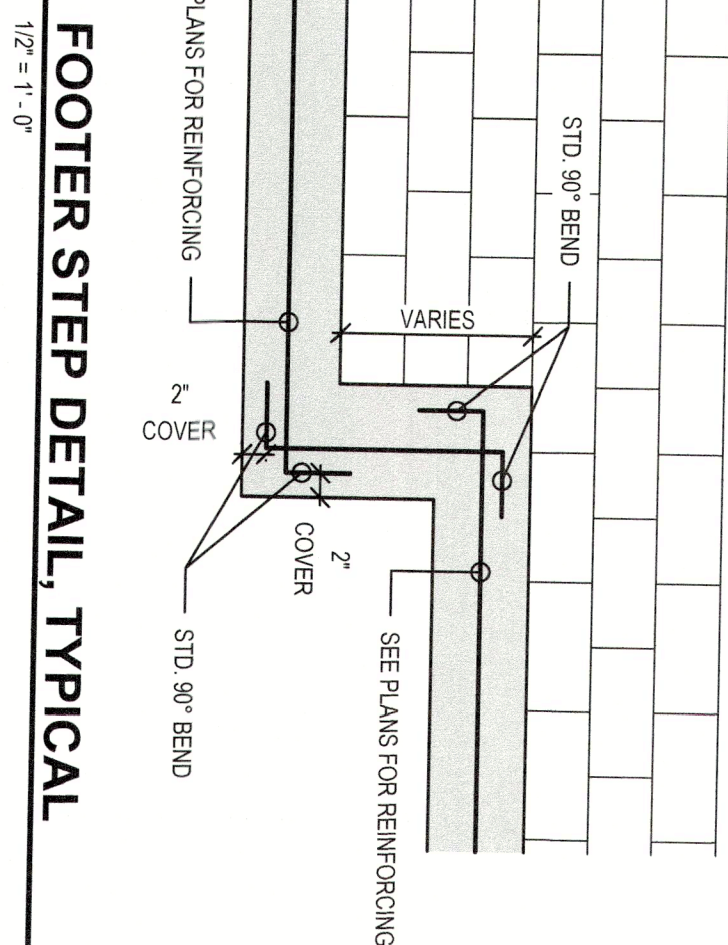
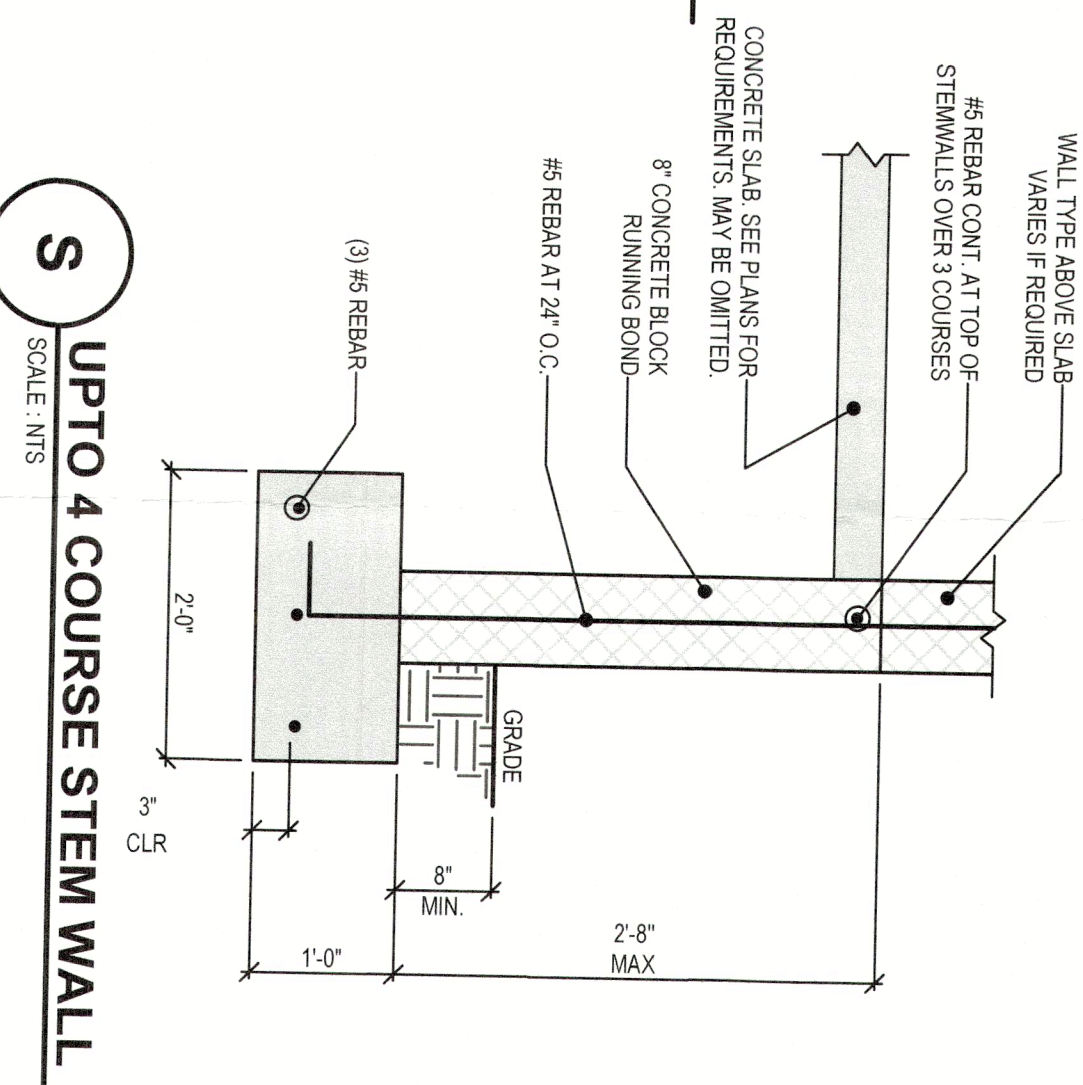
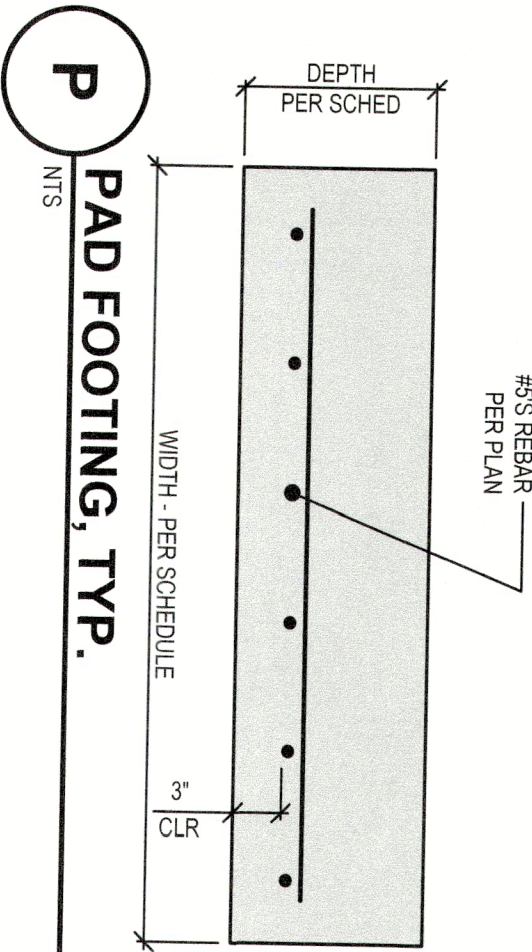
1. BATHROOMS ARE TO COMPLY WITH FLORIDA BUILDING CODE FOR RESTROOMS IN A PUBLIC BUILDING
2. HOT WATER AND DRAIN PIPES UNDER CONTACT
3. THESE DRAWINGS SHALL BE FIELD IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND INTERIOR DECOR DRAWINGS
4. CONTRACTOR TO USE MOISTURE RESISTANT GYP BOARD ON ALL WALLS IN RESTROOMS
5. CONTRACTOR SHALL INSTALL VINYL COVE OR MOOD BASE AT ALL WALLS IN RESTROOMS
6. FLOORING SHALL BE TILE FLOORING OR EQUIVALENT OWNER'S CHOICE
7. DOOR TO RESTROOM TO HAVE MINOR GYPSUM TRIM AND SIGNAGE AND BE ON A CLOSER

		ACCESSORY SCHEDULE		
KEY	DESCRIPTION	MAINLINE (* OR AVAILABLE EQUIVA.)	MTG HT	REMARKS
1	TOWEL DISPENSER	BOBROCK B-2620	54" AFF TOP OR UNIT	
2	TOILET TISSUE TOWEL DISP	BOBROCK B-10869	19" AFF @ C/L	
3	NOT USED			
4	MIRROR (TILED) 19" X 30"	BOBROCK B-235	24" AFF B/M REAR WALL 30" AFF 18" W	
5	GRAB BAR WIENERHEIM SURFACE	BOBROCK B-6800 99 X 36"	36" AFF @ 36" AFF @	
6	GRAB BAR WIENERHEIM SURFACE	BOBROCK B-6800 99 X 42"	36" AFF @ BARR C/L	
7	NOT USED			
8	SOAP DISPENSER	BOBROCK B-2606	40" AFF MAX	

** ALL FIXTURE SPECS ARE AS SPECIFIED OR EQUIVA. COORDINATE CHANGES WITH OWNER

* ALL FIXTURES SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE





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 6771 Professional Parkway West
 Suite #201 - Lakewood Ranch, FL 34240
 www.YHEngineers.com Tel (941) 306-1225

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OUTPARCEL COMMERCIAL BUILDING TWO
 3160 GULF OF MEXICO DRIVE LONGBOAT KEY, FL

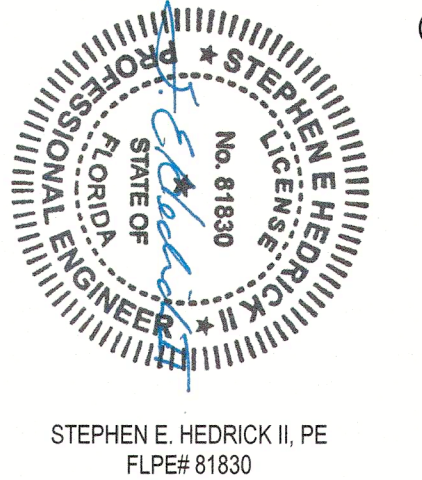
FOUNDATION DETAILS
 NTS

RECEIVED
 AUG 23 2024
 TOWN OF LONGBOAT KEY
 Planning, Design & Review

REVISIONS	
BY	DATE
-	-
-	-
-	-
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-	-
NSM	10.20.2022

DIMENSION NOTES

- SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL SHEETS.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL AND MEP PLANS FOR ADDITIONAL INFORMATION.



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FILLED CELLS LEGEND

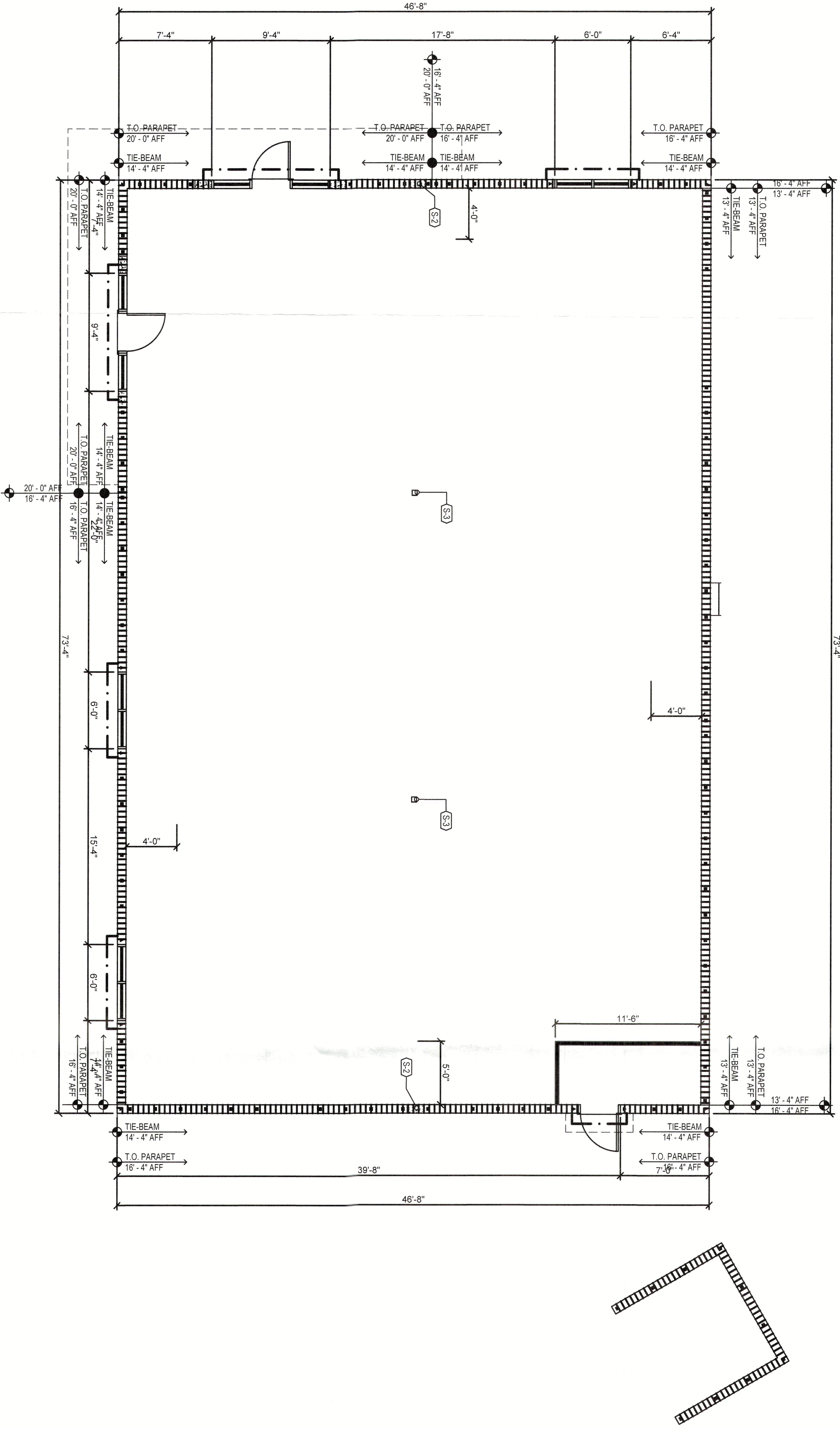
- INDICATES FILLED CELL W/ (1) NO.3 REBAR CONTINUOUS FROM THE BEAM OR FOOTING AT LEVEL BELOW TO THE BEAM ABOVE. PROVIDE 8' HOOKS.
- INDICATES FILLED CELL W/ (2) NO.3 REBAR CONTINUOUS FROM THE BEAM OR FOOTING AT LEVEL BELOW TO THE BEAM ABOVE. PROVIDE 8' HOOKS.
- INDICATES FILLED CELL W/ (1) NO.3 REBAR CONTINUOUS FROM THE BEAM OR FOOTING AT LEVEL BELOW TO SLAB. PROVIDE 8' HOOKS.

STRUCTURAL NOTES

MARK	DESCRIPTION
S-1	FILL ALL CELLS ABOVE PRECAST LINTELS.
S-2	CONCRETE THE COLUMN 8' X 8' FORM AND POUR CONCRETE COLUMN WITH MINIMUM 12' X 12' X 3/4" REBAR DETAIL 3, SHEET S-11.
S-3	HSS 8X14.5A STEEL COLUMN W/ 12' X 12' X 3/4" BASE PLATE AND 4# 10A BOLTS WITH MINIMUM 12' EMBEDMENT AND 5' PROJECTION ABOVE THE FOOTING. REFER TO DETAIL 5, SHEET S-11.

POST SCHEDULE

MARK	DESCRIPTION
P-8	6" X 6" PT. COLUMN



FIRST STRUCTURAL FLOOR PLAN
3/16" = 1' - 0"

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BY	DATE
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WEM	10/20/2022

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TOWN OF LONGBOAT KEY
Planning, Zoning & Building

GENERAL NOTES

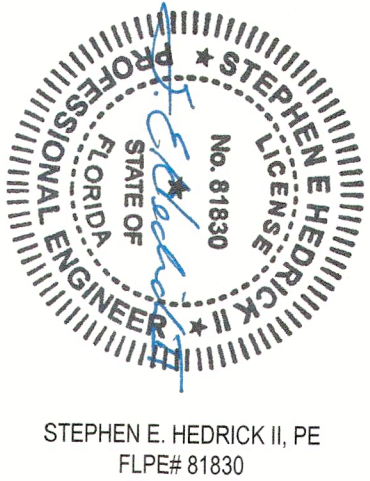
1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL AND MEP PLANS FOR ADDITIONAL INFORMATION.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL SLOPES, SPOCS AND BEAM LOCATIONS IN FLOOR SLAB.
3. CENTERLINES OF WALLS AND COLUMNS SHALL COINCIDE WITH CENTERLINES OF FOOTINGS AT ALL LOCATIONS, UNO.
4. FILL ALL CELLS ABOVE PRECAST LIMITS.
5. SHORING ALL CONCRETE BEAMS AND PRECAST LIMITS IS 8" OR MORE WIDE. ALL WOOD OR WOOD PRODUCTS IN CONTACT WITH CONCRETE SHALL BE PROTECTED OR PRESERVED TREATED MASONRY TO BE MOISTURE PROTECTED OR PRESERVED TREATED.
6. ALL WOOD OR WOOD PRODUCTS IN CONTACT WITH CONCRETE SHALL BE PROTECTED OR PRESERVED TREATED.

DIMENSION NOTES

1. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL SHEETS.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL AND MEP PLANS FOR ADDITIONAL INFORMATION.

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STEPHEN E. HEDRICK II, P.E.
FLPE# 81830

CONCRETE BEAM SCHEDULE

MARK	DESCRIPTION	TYPE
8F9-1B	8" x 16" PRECAST LINTEL BY CAST CONCRETE	1
TB-16A	8" x 16" PRECAST TIE BEAM & POUR CONCRETE BEAM	2
TB-26A	8" x 20" PRECAST TIE BEAM & POUR CONCRETE BEAM	3

TYPE 1	TYPE 2	TYPE 3

STRUCTURAL NOTES

MARK	DESCRIPTION
S1	THE BEAM PROVIDE FORM AND POUR CONCRETE TO BEAM AT ELEVATION INDICATED ON PLANS. WIDTH TO MATCH WALL. X 16" MIN. DEPTH W/ (2) #6 TOP AND BOTTOM REBAR.
S2	THE BEAM, REFER TO THE BEAM STEP DETAIL ON SHEET S4.1 FOR REBAR DETAIL.
S3	PARAPET MASONRY PARAPET WALL AT ELEVATION PER PLANS. PROVIDE (1) #6 CONT. IN FULLY GROUTED COURSE AT TOP.
S4	ROOF DECK, 15" DEEP, 22 GA. GALVANIZED WIDE RIB AND 1/2" SCHED. 40 STEEL WALLS. SUPPORTS (S8S) AND MASONRY WALL PROVIDE #6 AT 24" O.C. ABOVE LINTEL TO MAKE THE BEAM PROVIDE HOOK AT LINTEL AND THE BEAM PRE-ENGINEERED ALUMINUM CANOPY AND CONNECTION TO STRUCTURE AS REQUIRED BY SPECIALTY ENGINEER.
S5	ROOF DECK, 15" DEEP, 22 GA. GALVANIZED WIDE RIB AND 1/2" SCHED. 40 STEEL WALLS. SUPPORTS (S8S) AND MASONRY WALL PROVIDE #6 AT 24" O.C. ABOVE LINTEL TO MAKE THE BEAM PROVIDE HOOK AT LINTEL AND THE BEAM PRE-ENGINEERED ALUMINUM CANOPY AND CONNECTION TO STRUCTURE AS REQUIRED BY SPECIALTY ENGINEER.
S6	ROOF DECK, 15" DEEP, 22 GA. GALVANIZED WIDE RIB AND 1/2" SCHED. 40 STEEL WALLS. SUPPORTS (S8S) AND MASONRY WALL PROVIDE #6 AT 24" O.C. ABOVE LINTEL TO MAKE THE BEAM PROVIDE HOOK AT LINTEL AND THE BEAM PRE-ENGINEERED ALUMINUM CANOPY AND CONNECTION TO STRUCTURE AS REQUIRED BY SPECIALTY ENGINEER.
S7	ROOF DECK, 15" DEEP, 22 GA. GALVANIZED WIDE RIB AND 1/2" SCHED. 40 STEEL WALLS. SUPPORTS (S8S) AND MASONRY WALL PROVIDE #6 AT 24" O.C. ABOVE LINTEL TO MAKE THE BEAM PROVIDE HOOK AT LINTEL AND THE BEAM PRE-ENGINEERED ALUMINUM CANOPY AND CONNECTION TO STRUCTURE AS REQUIRED BY SPECIALTY ENGINEER.
S8	STEEL BEAM BOND PLATE B-1. REFER TO DETAIL S4.1 FOR ADDITIONAL INFORMATION.
S9	THE BEAM PROVIDE FORM AND POUR CONCRETE TO BEAM AT ELEVATION INDICATED ON PLANS. WIDTH TO MATCH WALL. X 16" MIN. DEPTH W/ (2) #6 TOP AND BOTTOM REBAR.

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ROOF FRAMING PLAN
3/16" = 1' - 0"

REVISIONS

BY	DATE
YH	10/20/2022

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PERMITTING DEPARTMENT

S3.0

CONCRETE NOTES

1. ALL CAST IN PLACE CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF AC 308 IN THE MANUAL OF STANDARD PRACTICE AND THE WEIGHT MAY BE STANDARD PRACTICE.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT AND OF STANDARD CONCRETE DENSITY AND SHALL BE SUBMITTED TO THE FOLLOWING TESTS:
a. COMPRESSIVE STRENGTH (ASTM C 39)
b. FUNDATIONS AND SLAB ON GRADE:
i. ALL OTHER STRUCTURAL CONCRETE:
ii. 4000 psi
iii. 5000 psi
3. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ALL STANDARDS AND SPECIFICATIONS. SUBMIT PROPOSED MIX DESIGN WITH BETTER FIELD CHANGES OF 10% TESTS FOR REFERENCE. PORE, USE ANY SHALL BE UNLESS IDENTIFIED BY MAX NUMBER OR OTHER SPECIFIC IDENTIFICATION. MAX SHALL MEET THE REQUIREMENTS OF ASTM FOR PLACEMENT, COMPACTING, FINISHING, CURING, AND TESTING. ALL ASTM STANDARDS FOR CURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.

THE ABOVE ALL SLABS SHALL BE CURED USING A C309 TYPE 1-D AND SHALL HAVE A FUGITIVE DYE. THE

2

MASONRY

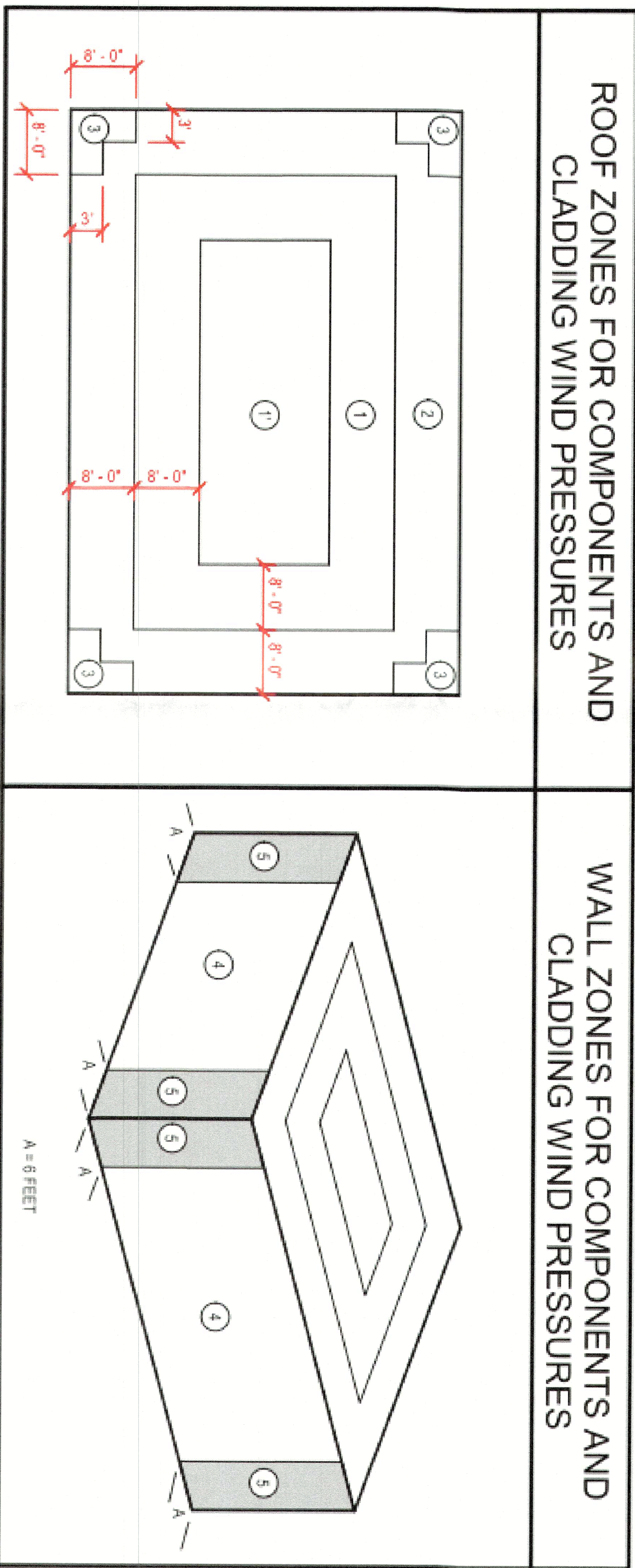
1. ALL MASONRY CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
2. MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
3. MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
4. CORNER JOINTS SHALL CONFORM TO ASTM C476.
5. CORNER JOINTS SHALL CONFORM TO ASTM C476.
6. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
7. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
8. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
9. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
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12. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
13. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
14. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
15. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
16. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
17. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
18. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
19. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.
20. ALL VERTICAL MASONRY JOINTS SHALL BE PLACED IN THE CENTER OF THE SPAN.

METAL DECK

- [illegible]

OPENING IMMEDIATELY PRIOR TO
OPENING OR WALLS AROUND THE

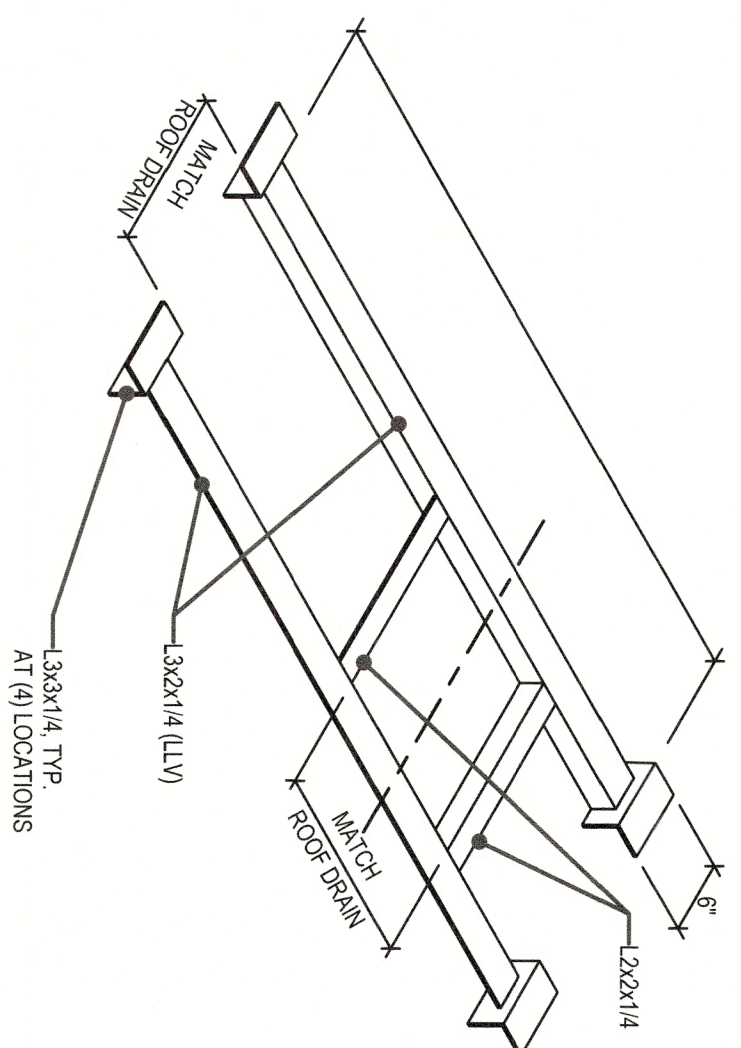
WALL ZONES FOR COMPONENTS, CLADDING WIND PRESSURES



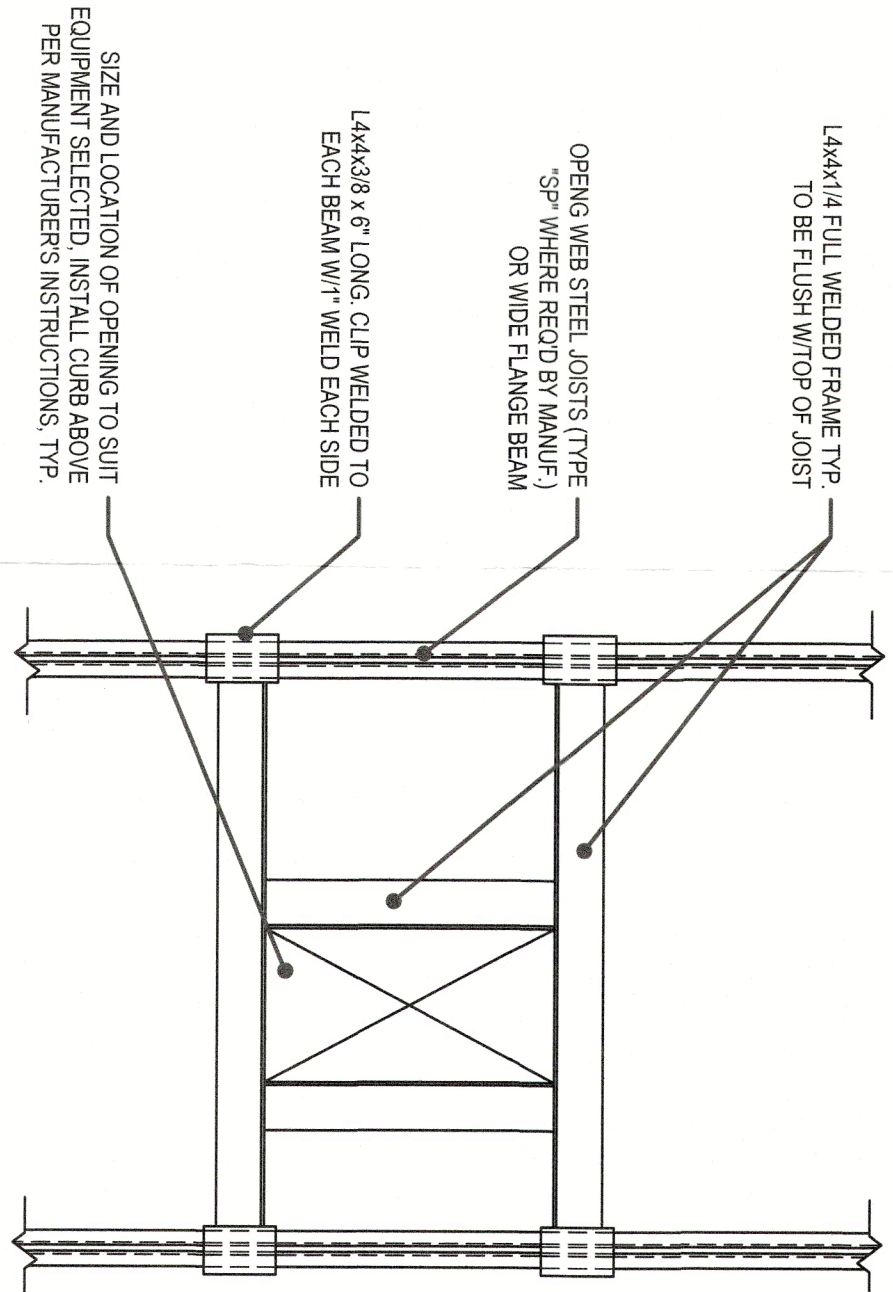
GENERAL NOTES

STRUCTURAL GENERAL NOTES

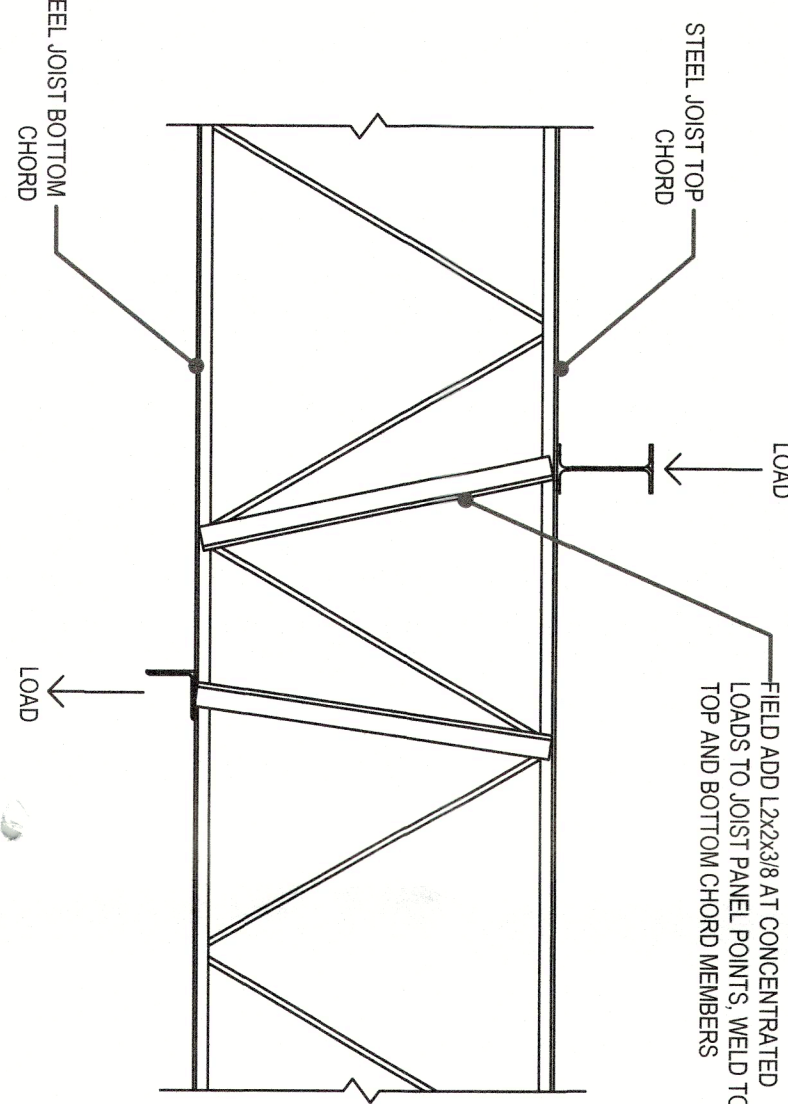
REVISIONS	
BY	DATE
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NPM	10.17.2022



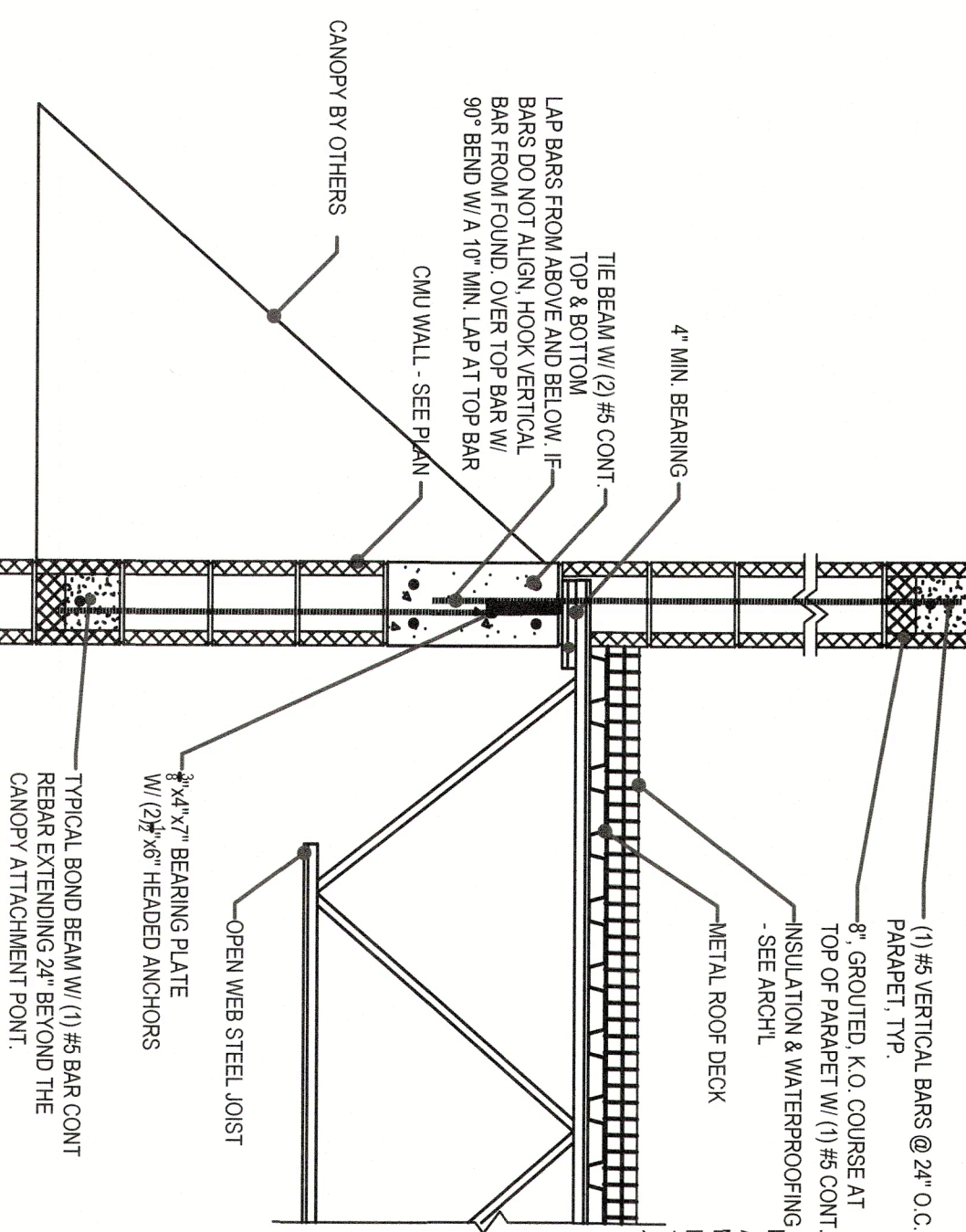
1 TYP. ROOF DRAIN DETAIL
Scale: NTS



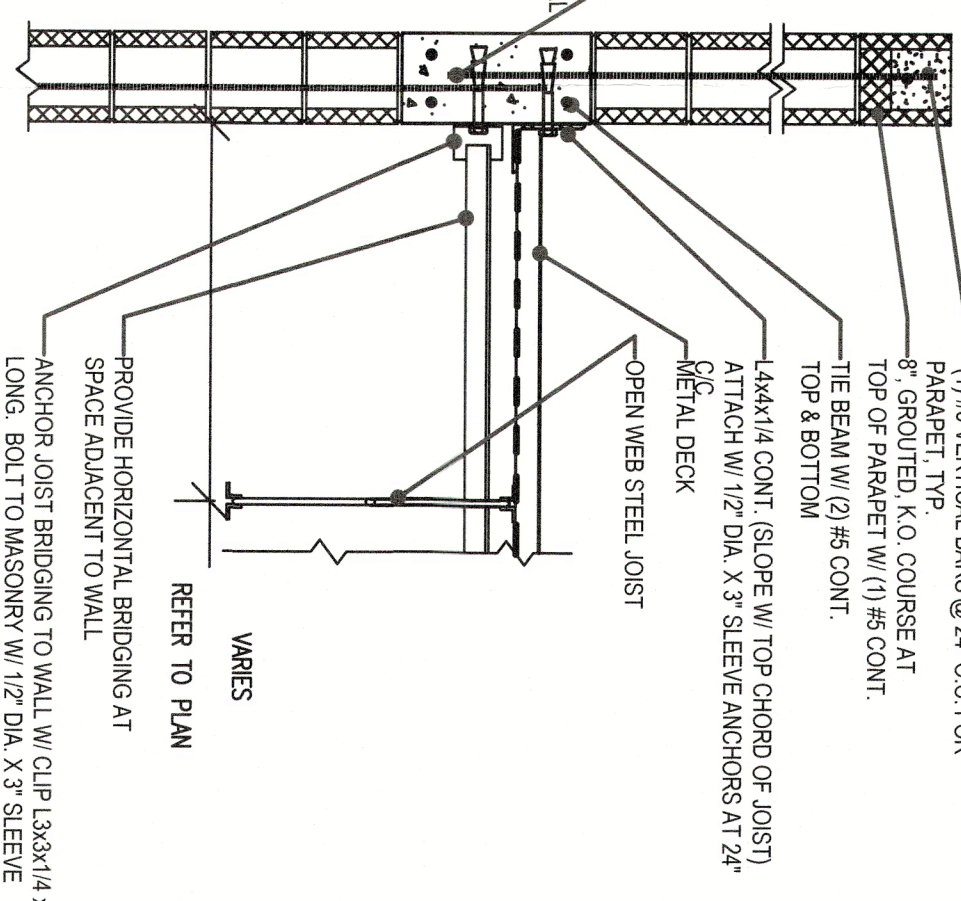
2 TYP. OPENING THROUGH METAL DECK



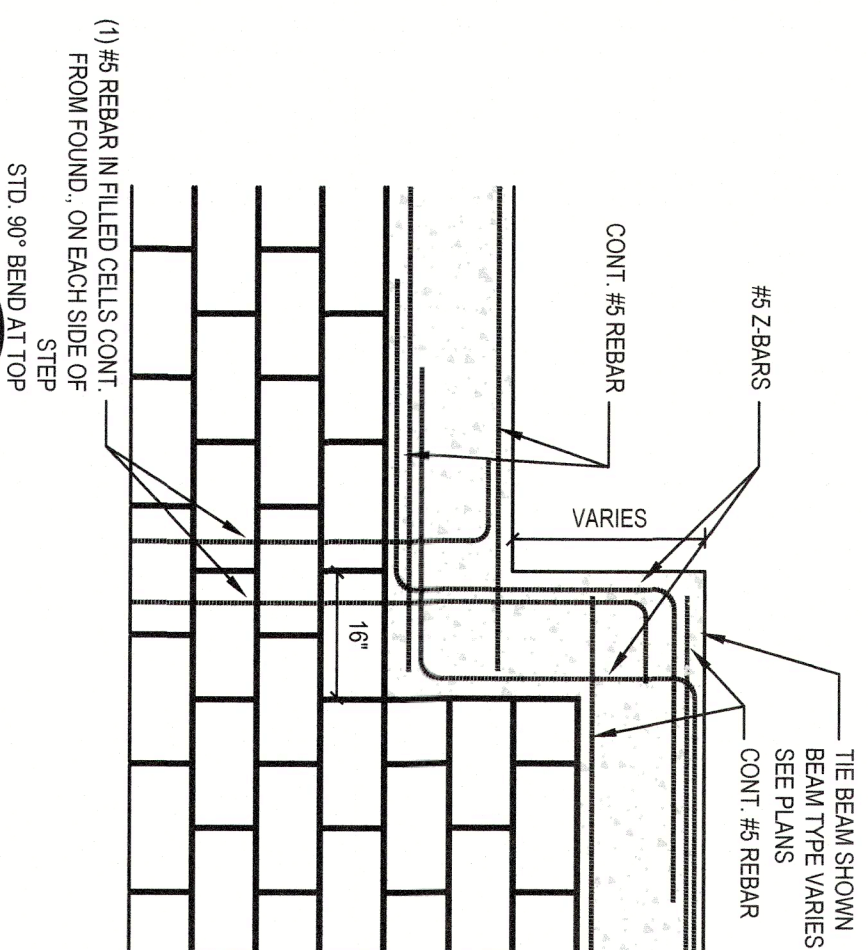
3 TYP. CONCENTRATED LOAD
Scale: NTS



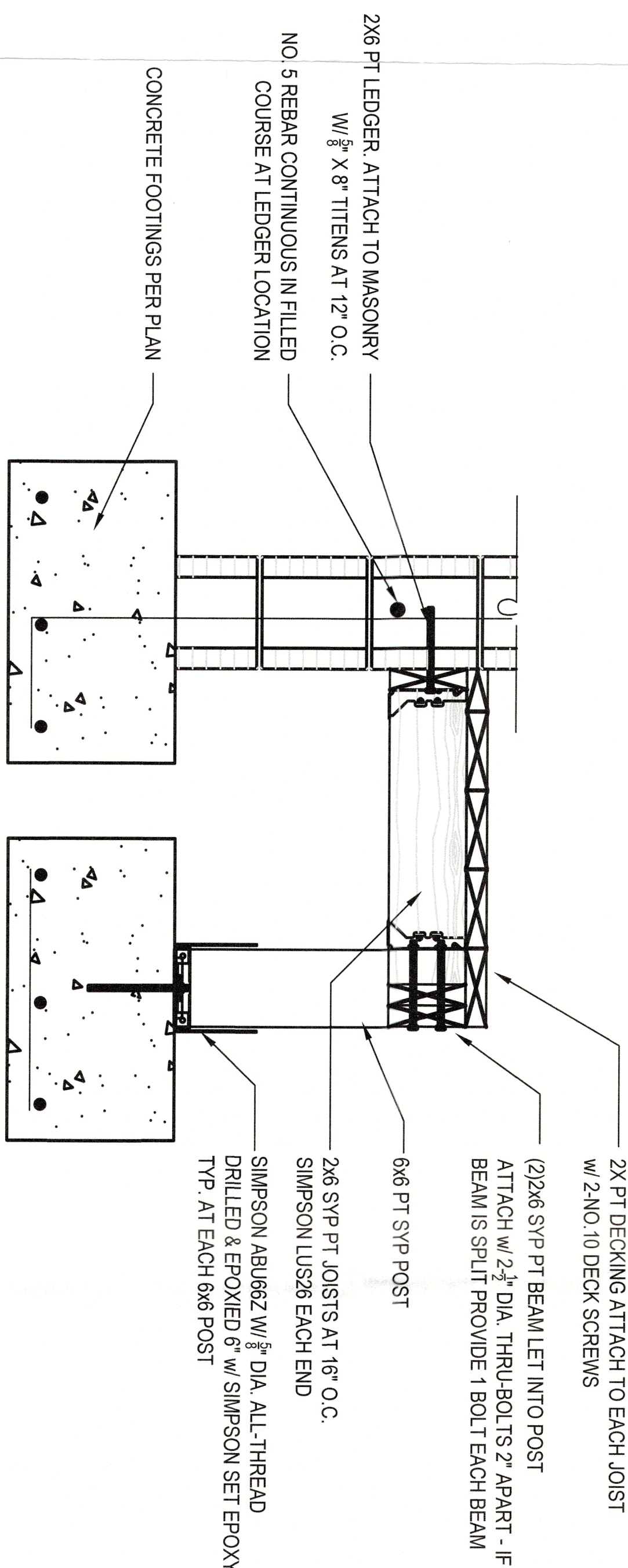
4 ROOF JOIST BEARING DETAIL



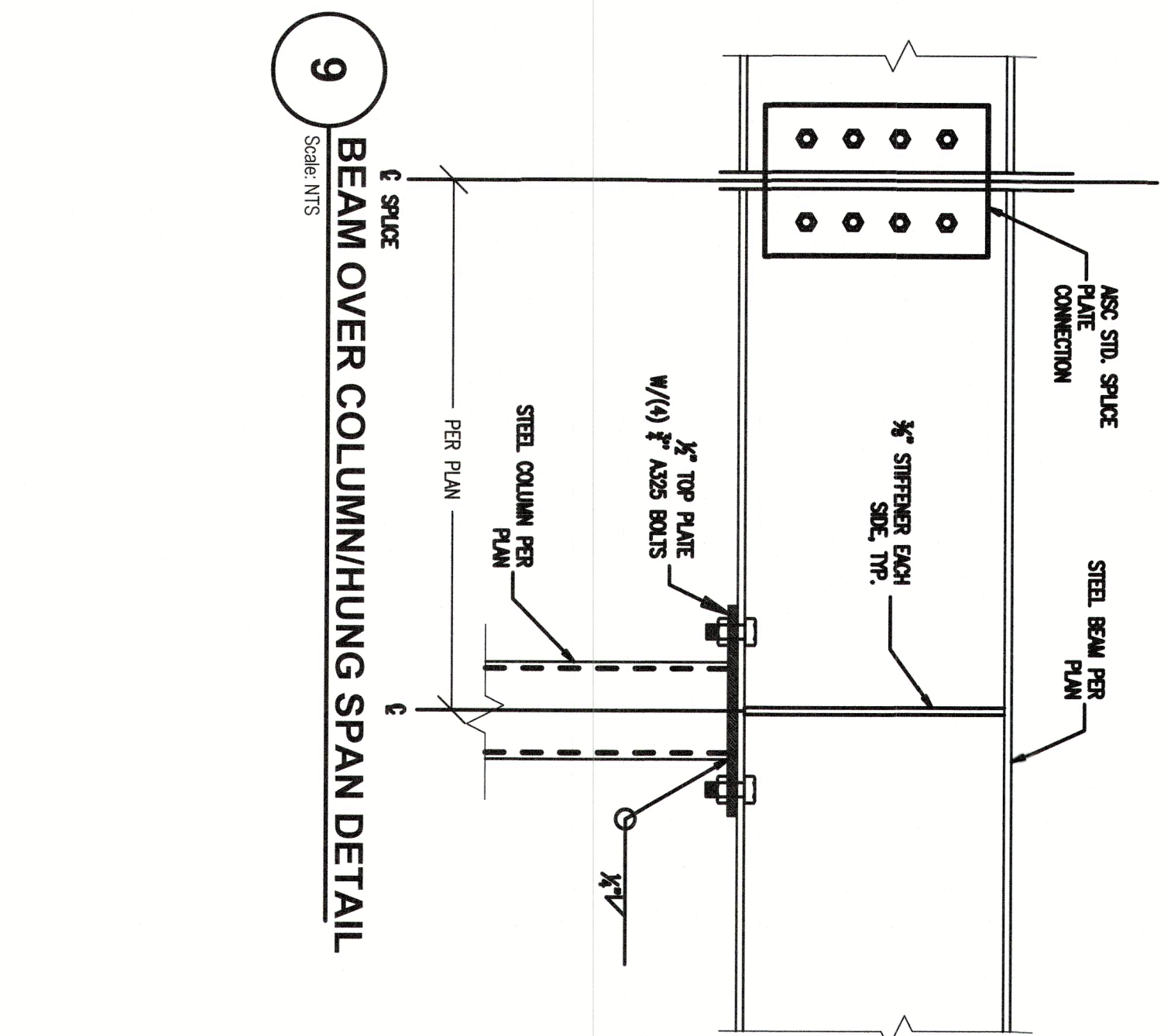
5 TYPICAL EDGE OF DECK DETAIL



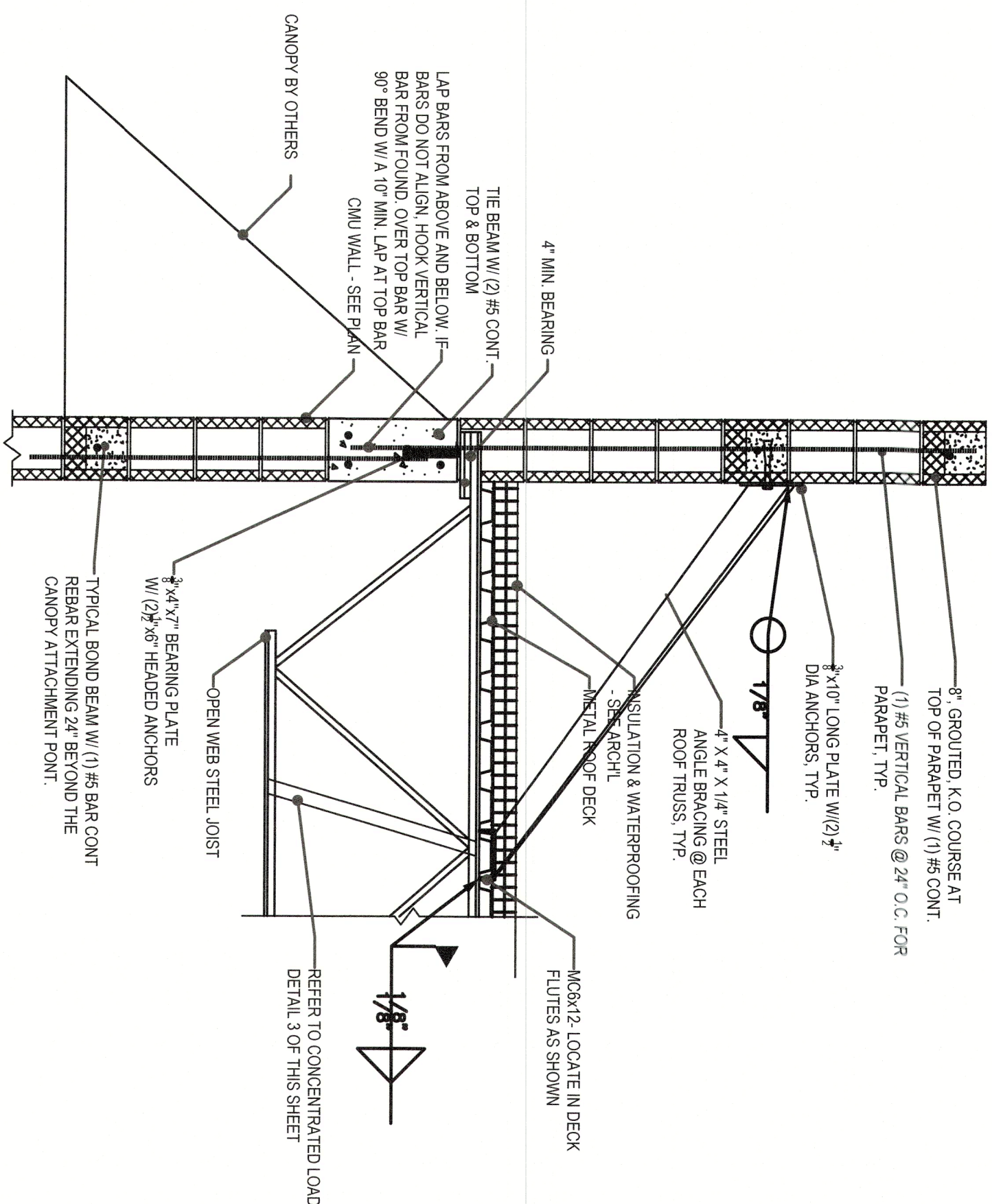
6 SECTION NTS



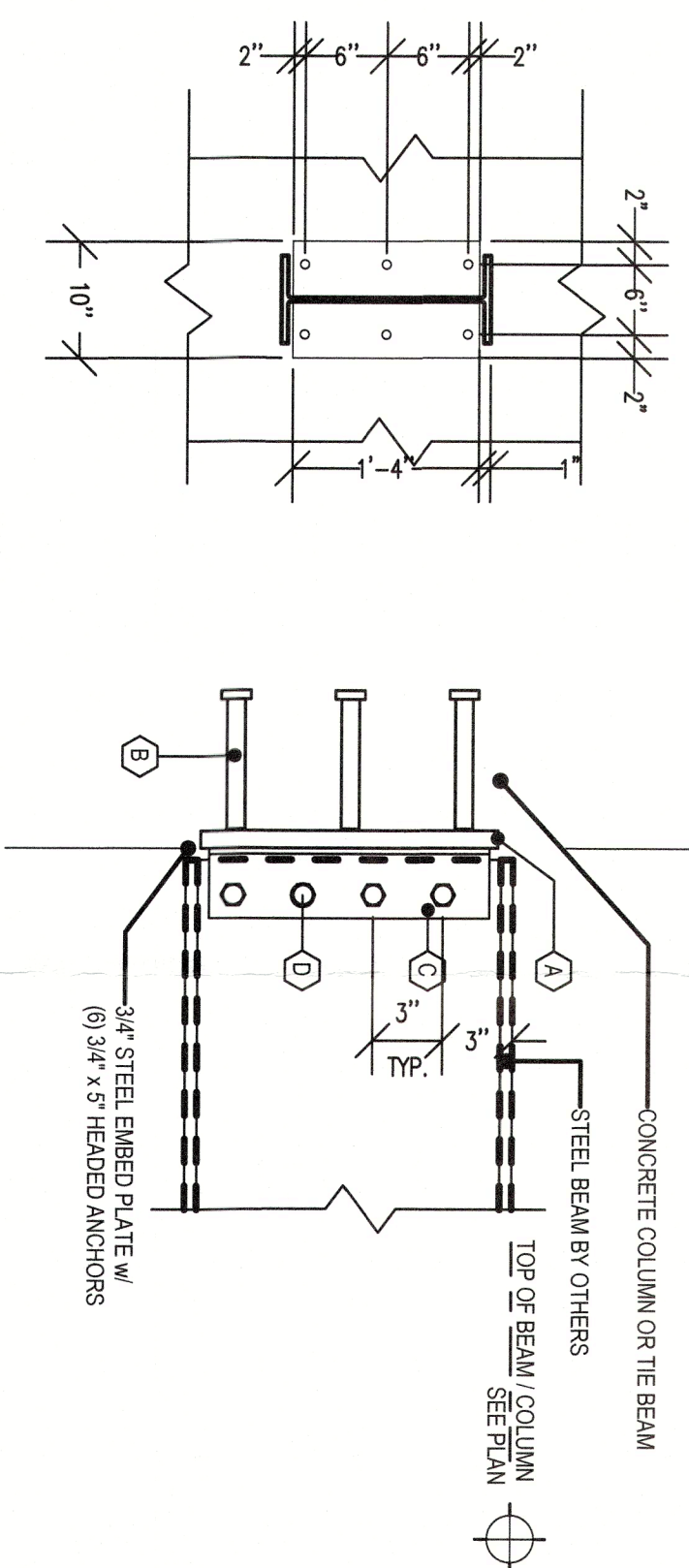
7 SECTION NTS



9 BEAM OVER COLUMN/HUNG SPAN DETAIL
Scale: MTS



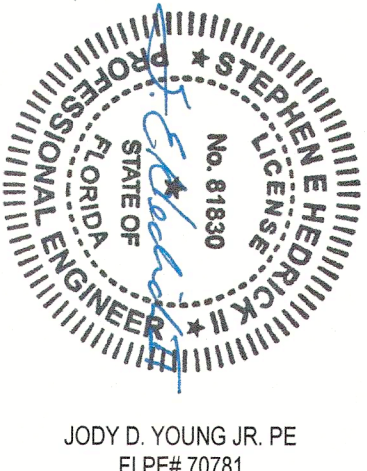
10 TYP. PARAPET REINFORCEMENT DETAIL
Scale: NTS



8 BEAM TO CONCRETE SUPPORT DETAIL

EMBED PLATE SCHEDULE						
MARK	(A)	(B)	(C)	(D)	(E)	(F)
BB-1	7/8" x 10" x 1/8"	(6) 1/2" @ 43# EMBED	44# A307	3/8" @ A307		
	STEEL PLATE	#5 DIBED	OUTLINE FENCE			

PLATE AND NUTS ARE CONCEPTUAL CONNECTIONS ONLY. ALL STEEL TO STEEL CONNECTIONS SHALL BE CONFIRMED BY STRUCTURAL STEEL SPECIALTY ENGINEER AND SUBMITTED WITH SHOP DRAWINGS AND CALCULATIONS.



- E. ALL WELDING UNDERGROUND FOR USE IN THE SLAB SHALL BE RUN IN RIGID STEEL PERMITTED FOR UNDERGROUND USE ONLY. USE THICK WELD 90° STEEL ELBOWS TO PLECE SLAB
- F. CONDUIT CONNECTIONS FROM OUTLET BOXES, JUNCTION BOXES, CONDUIT, AND EQUIPMENT SHALL BE MADE WITH FLEXIBLE METALLIC CONDUIT. CONDUIT WHICH SHALL BE SHORT AS POSSIBLE WITH A MAXIMUM LENGTH OF 10 FEET. ALL CONDUIT SHALL BE WEATHER-PROOF TO THE WEATHER SHALL BE WEATHER-PROOF TYPE.
- G. CONDUIT CONNECTIONS FROM OUTLET BOXES TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH 3/4" RIGID METALLIC CONDUIT WHICH SHALL HAVE A MAXIMUM LENGTH OF 10 FEET, UNLESS OTHERWISE NOTED.

- [illegible]

11. WINNING DEVICES
- A. SWITCHES: 20-AMP, 120/277 VOLT RATING, SPECIFICATION GRADE, OFFICE-QUALITY, 1-PHASE, 3-POLE, 3-POSITION, 3-LEVER, 1/2" SQUARE, TYPE (HUBBELL #227 OR EQUAL).
- B. WALL RECEPTACLES: DUNLAP RECEPTACLES SHALL BE FLUSH TYPE, 15 AMPERES, 125 VOLTS RATING, WITH PARALLEL SLOTS AND DOUBLE SLOTTED COILION, SPECIFICATION GRADE (HUBBELL #2822 OR EQUAL).
- C. WALL PLATES SHALL BE "OFFICE-WHITE" BAKELITE IN OFFICE AREAS, AND OIL-DRAWN STEEL IN SHOP AREAS.
- D. SAFETY SWITCHES:

- 1.3 PANELBOARDS**
- PANELBOARDS SHALL BE OF THE DEAD-FRONT TYPE INCORPORATING SWITCHING AND PROTECTIVE DEVICES OF THE NUMBER, RATING AND TYPE SPECIFIED HEREIN SHOWN ON THE DRAWINGS. PANELBOARDS SHALL BE MOUNTED TO A NON-COMBUSTIBLE SUPPORT SURFACE BY MEANS OF AN APPROVED OR SURFACE MOUNTING AS INDICATED. ALL PANELBOARDS SHALL BE RATED FOR THE INTENDED VOLTAGE AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) WHERE SUCH REQUIREMENTS EXIST. PANELBOARDS SHALL ALSO COMPLY WITH NEHA REQUIREMENTS.
- 1.4 IDENTIFICATION**
- ALL PANELBOARDS SHALL BE FIELD OR GARNAL DUTY, FUSED OR UNFUSED, AND SHALL BE IDENTIFIED BY THE MANUFACTURER'S NAME AND NON-FIABLE TYPE AS INDICATED ON DRAWINGS (DO NOT CO. OR EDAW).

- B. THE POWER COMPANY SHALL BE CONTACTED BY THE CONTRACTOR WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT TO VERIFY THE ACTUAL RATED SHORT CIRCUIT FAULT CURRENT AT THE TRANSFORMER SECONDARY BUSBARS. THE CONTRACTOR SHALL OBTAIN A DISCUSSION WITH THE POWER COMPANY REGARDING THE TYPE OF EQUIPMENT AND PANELBOARDS WHICH HAVE I.C. WITHSTAND RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT.
- C. ALL CIRCUIT BREAKERS SHALL BE "FULL SIZE". NO TAPDED, PISTON-BACK, TWIN OR HALF-SIZE BREAKERS WILL BE ACCEPTED. BREAKERS MUST BE APPROVED PRIOR TO INSTALLATION.

- PROJECT LOG
- BR
- #CB0059465

Diagram illustrating a Grounding Detail for an electrical device box mounted on a wall.

Labels:

- CONDUIT
- GALVANIZED WIRE #12 (17 P)
- BOX SCREW
- WIRE NUT
- TO OTHER OUTLETS
- RECEPTACLE GROUND SCREW
- FINISHED WALL
- DRIVE BOX SCREW
- TYPICAL ELECTRICAL DEVICE
- USE IDENTICAL GRADE INVERTS OVER ALL AREAS

NOTES:

1. ELECTRICAL DEVICE BOX COVER TO BE FLASHED WITH ROOFING
2. ALL DEVICE BOX COVERS TO BE KEVNEY CUT INSULATOR
3. DO NOT MOUNT OUTLETS BACK TO BACK

PLASTER RING DETAIL

MANDATORY SQUARE CUT FINISH

USE APPROPRIATE PLAN FOR DEPTH OF RING

1/8" GAP MAX. TO SILENT BLOCK

ROUND CORNER PLASTIC STRIPS ALLOWED ON PRODUCT

Permit # 1824-0486
REVIEWED FOR CODE COMPLIANCE
LONGBOAT KEY BUILDING DEPT.

AUG 28 2024

Pf-6

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DELTA NO. DATE

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AUG 28 2024

Planning, Zoning & Building

INDEX

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AS NOTED

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BLDG PERMIT PLANS-0

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1556 JOHN S. SARGENT, JR. 1923

LIT. #C8C052456

1

LIT. #C8C052456

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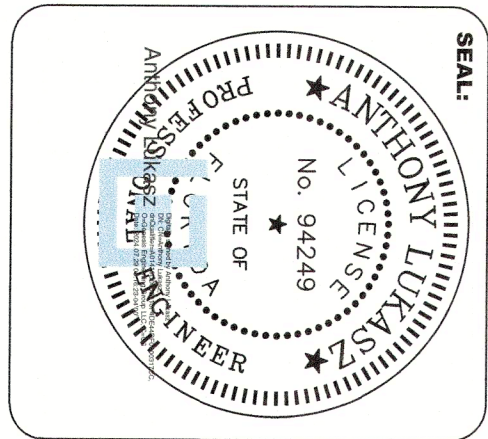
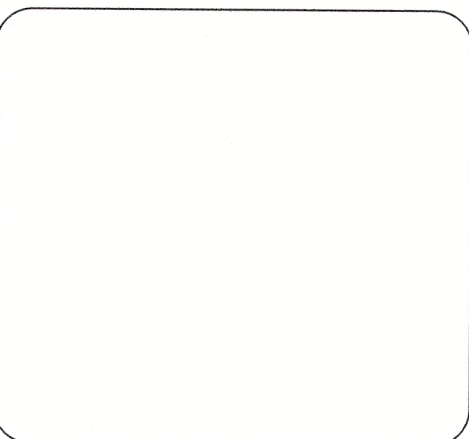
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VOLTAGE: 120/208V, 3P, 4W										PANEL: PA									
PANEL TYPE: MCOB										MANS: 225									
MOUNTING: SURFACE										M.O. OR MCB: M.O.									
										A.L.C. RATING: 22,000									
										AMPS									
										</									



genesis
engineering
group, llc.
2601 cattlemen rd., ste 501
sarasota, fl 34232
project #24-080



BRISTA COMMONS, BUILDING TWO
3120 - 3150 GULF OF MEXICO DRIVE
LONGBOAT KEY, FLORIDA

NO.	REVISION	DATE

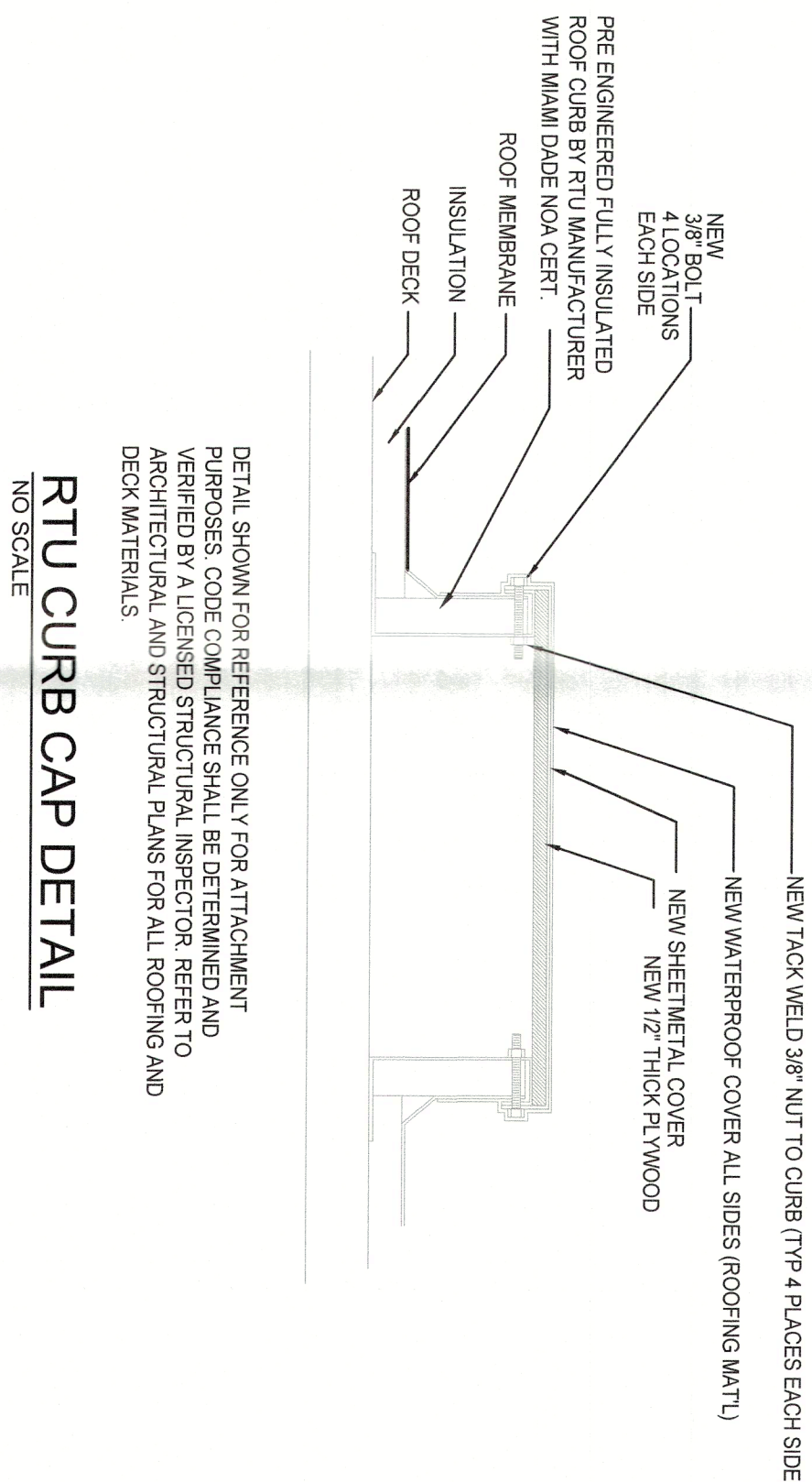
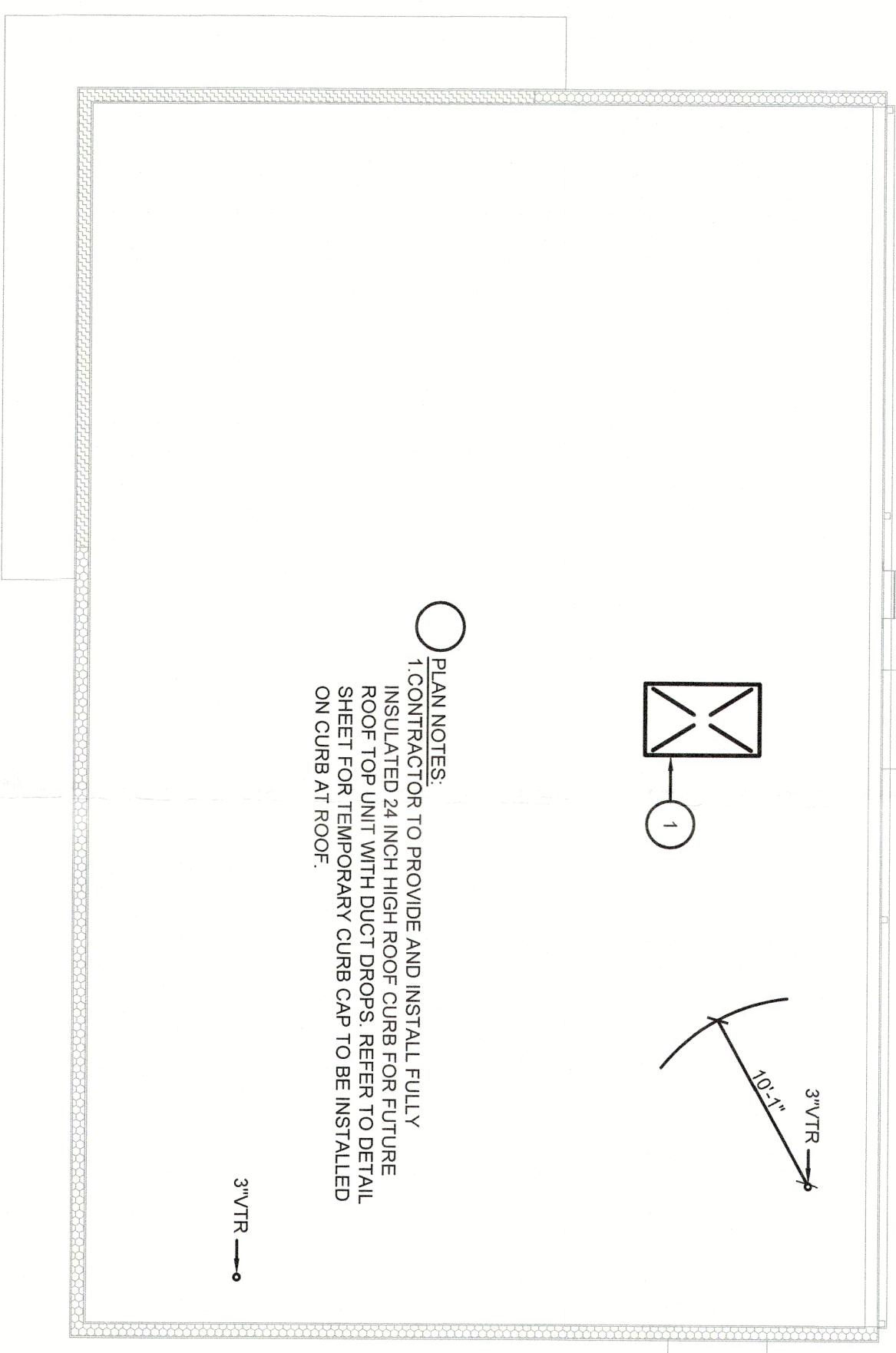
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JOB NUMBER:	24-080
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DRAWN BY:	BSM
CHECKED BY:	TL
DRAWING TITLE:	

FLOOR PLANS -
MECHANICAL

DRAWING NO.

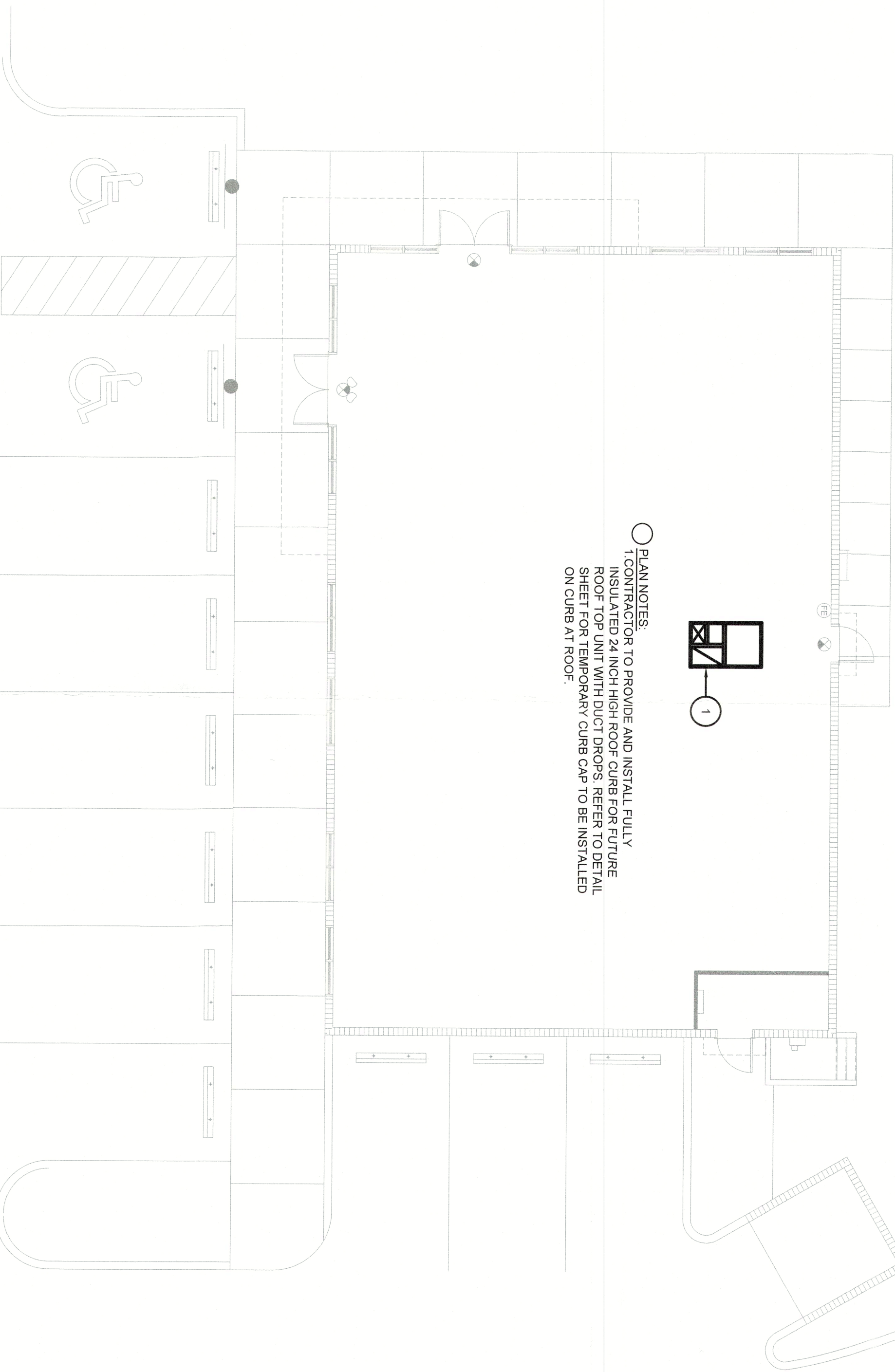
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RTU CURB CAP DETAIL
NO SCALE

NEW MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"



NEW MECHANICAL FLOOR PLAN
SCALE: 1/8"=1'-0"

MECHANICAL SPECIFICATIONS

- [illegible]

NEW HVAC SPECIFICATIONS

SCALE: AS NOTED

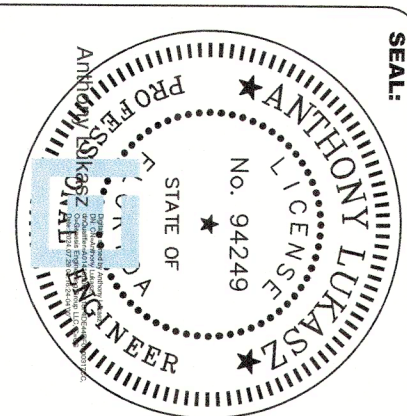
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JOB NUMBER:	24-080
FILE NAME:	
DRAWN BY:	RPM
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DRAWING TITLE:	

SPECIFICATIONS MECHANICAL

DRAWING NO.

BRISTA COMMONS, BUILDING TWO
3120 - 3150 GULF OF MEXICO DRIVE
LONGBOAT KEY, FLORIDA



genesis
engineering
group, llc.
2601 cattlemen rd., ste 501
sarasota, fl 34232
project #24-080

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED
AND SEALED BY ANTHONY LUKASZ, PE, ON THE
DATE ADJACENT TO THE SEAL USING A SHA
AUTHENTICATION CODE. PRINTED COPIES OF
THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SHA
AUTHENTICATION CODE MUST BE VERIFIED ON
ANY ELECTRONIC COPIES.

PIPING ELEMENTS / VALVING

	PRESSURE REDUCING VALVE
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	VALVE IN RISE OR DROP
	BALL VALVE
	SWING CHECK VALVE
	LIFT CHECK VALVE
	GATE VALVE ANGLE
	GLOBE VALVE ANGLE
	THREE WAY CONTROL VALVE
	TWO WAY CONTROL VALVE
	SOLENOID VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	RELIEF SAFETY VALVE
	GAS COCK
	GAS PRESSURE REGULATOR
	STRAINER
	BLOW OFF VALVE
	FLANGE CONNECTION
	SPRING HEAD
	PIPE RISING UP
	PIPE PROPING DOWN
	UNION - SCREENED OR FLANGED
	FLOW SWITCH
	TEMPERATURE TRANSMITTER
	PRESSURE TRANSMITTER OR PRESSURE SWITCH
	THERMOCOUPLE/TEMPERATURE INDICATOR
	GAUGE WITH GAUGE COCK
	PRESSURE INDICATOR
	BACKFLOW PREVENTER (REDUCED PRESSURE ZONE)
	BACKFLOW PREVENTER (DOUBLE CHECK VALVE ASSEMBLY)
	WATER HAMMER ARRESTOR
	CIRCUIT LETTING BLANKING VALVE
	HOSE BIBB
	ROOF DRAIN
	OPEN SITE DRAIN
	FLOOR DRAIN
	AREA DRAIN
	CLEANOUT
	FLOOR CLEANOUT
	WASH CONNECTION

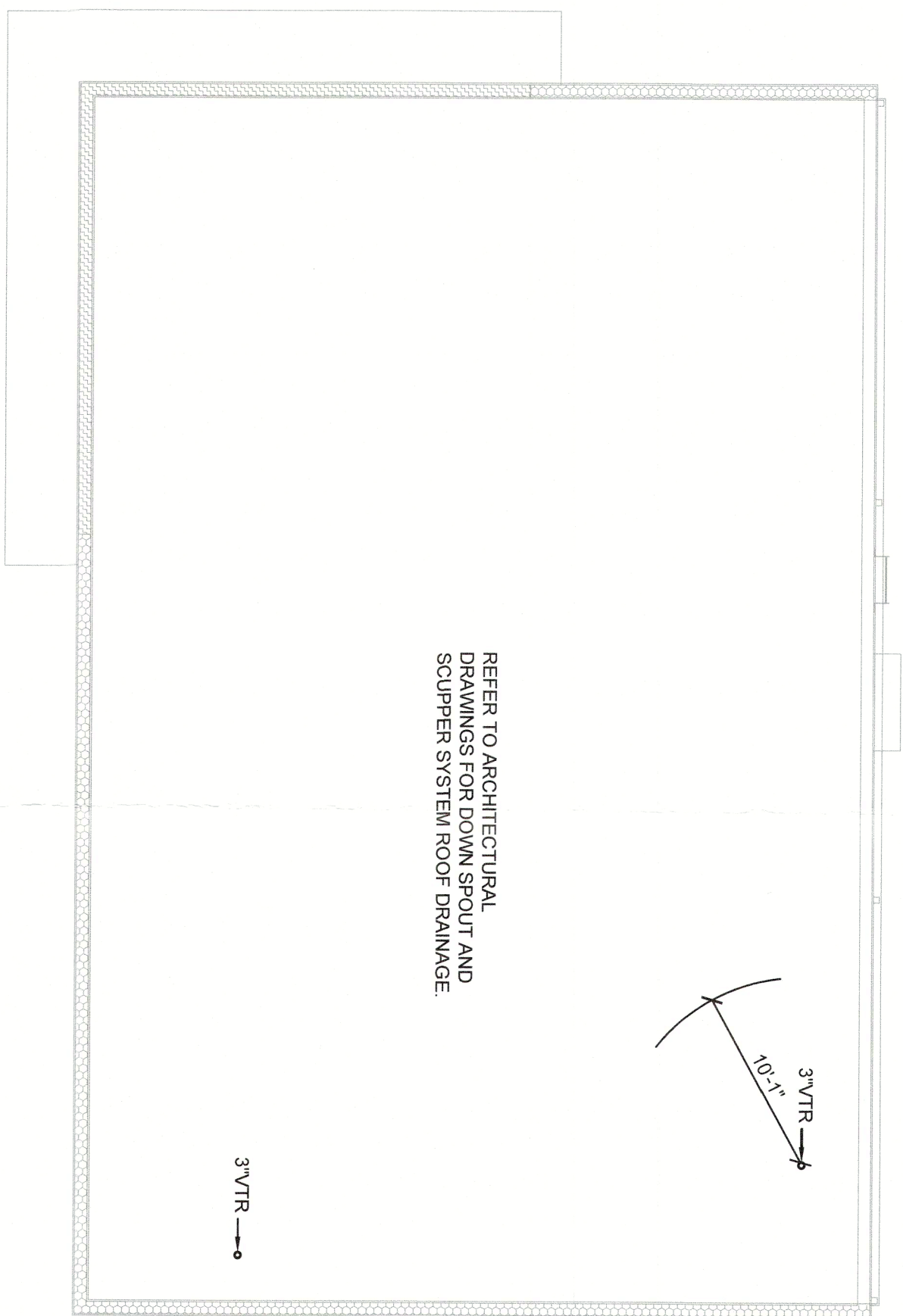
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PLUMBING ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	MMC	DOMESTIC HOT WATER CIRCULATION
AB	ABOVE	MMW	DOMESTIC HOT WATER RETURN
AP	ACCESS PANEL	IE	INVERT ELEVATION
BFF	BELOW FINISHED FLOOR	KL	KILOWATT
CD	CONCEALED DRAIN	LB	POUNDS
CH	COLD FEET HOT WATER	MM	MILLIMETER PRESSURE GAS
CPVC	CROSS POLYETHYLENE CHLORIDE PIPE	OSD	OVERFLOW STORM DRAIN
CO	CLEANOUT	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUATION	PP	POLYPROPYLENE BACKFLOW PREVENTER
CV	CLEANOUT VALVE	PPH	POLYPROPYLENE HOT WATER PIPING
DOWN	DOWN	SP	SANITARY SEWER
DWG	DRAWING	UF	UNDER FLOOR
E	EXISTING	UNO	UNLESS NOTED OTHERWISE
F	DEGREE FAHRENHEIT	V	VENT
FCO	FLOOR CLEANOUT	VTR	VENT THRU ROOF
FL	FLOOR	W	WALL
G	GALLONS PER MINUTE	WCO	WALL CLEANOUT
HPM	GALLONS PER MINUTE		
HW	DOMESTIC HOT WATER		

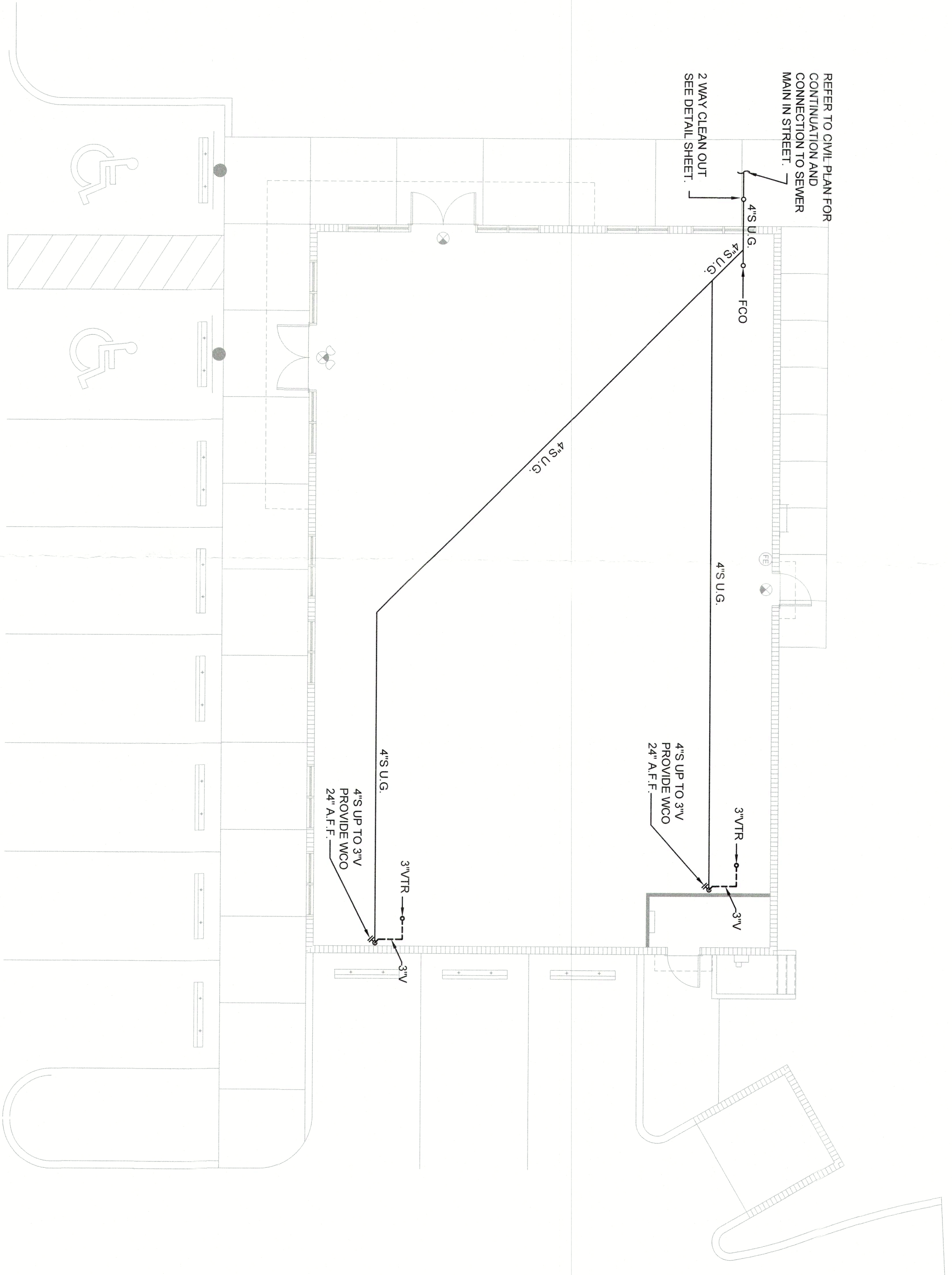
PLUMBING SYMBOL LEGEND	
DESCRIPTION	
	- EXISTING PIPING TO BE REMOVED
	- DOMESTIC COLD WATER PIPING (CW)
	- DOMESTIC HOT WATER PIPING (HW)
	- DOMESTIC HOT WATER CIRCULATION PIPING (HWC)
	- CONDENSATE PIPING (CP) ABOVE FLOOR
	- CONDENSATE PIPING (CP) BELOW FLOOR
	- PUMP DISCHARGE PIPING (PD) ABOVE FLOOR
	- PUMP DISCHARGE PIPING (PD) BELOW FLOOR
	- SANITARY SEWER PIPING (SS) ABOVE FLOOR
	- SANITARY SEWER PIPING (SS) BELOW FLOOR
	- GREASE WASTE PIPING (GW) ABOVE FLOOR
	- GREASE WASTE PIPING (GW) BELOW FLOOR
	- SANITARY VENT PIPING (V)
	- LOW PRESSURE GAS PIPING (G)
	- MEDIUM PRESSURE GAS PIPING (MG)
	- STORM DRAIN
	- STORM DRAIN BELOW FLOOR
	- OVER/LOW STORM DRAIN
	- POINT OF DEMOLITION EXTENTS
	- POINT OF CONNECTION TO EXISTING

- ENLARGED PLAN REFERENCE TOP PLAN
 BOTTOM DRAWING SHOWN ON

P-O

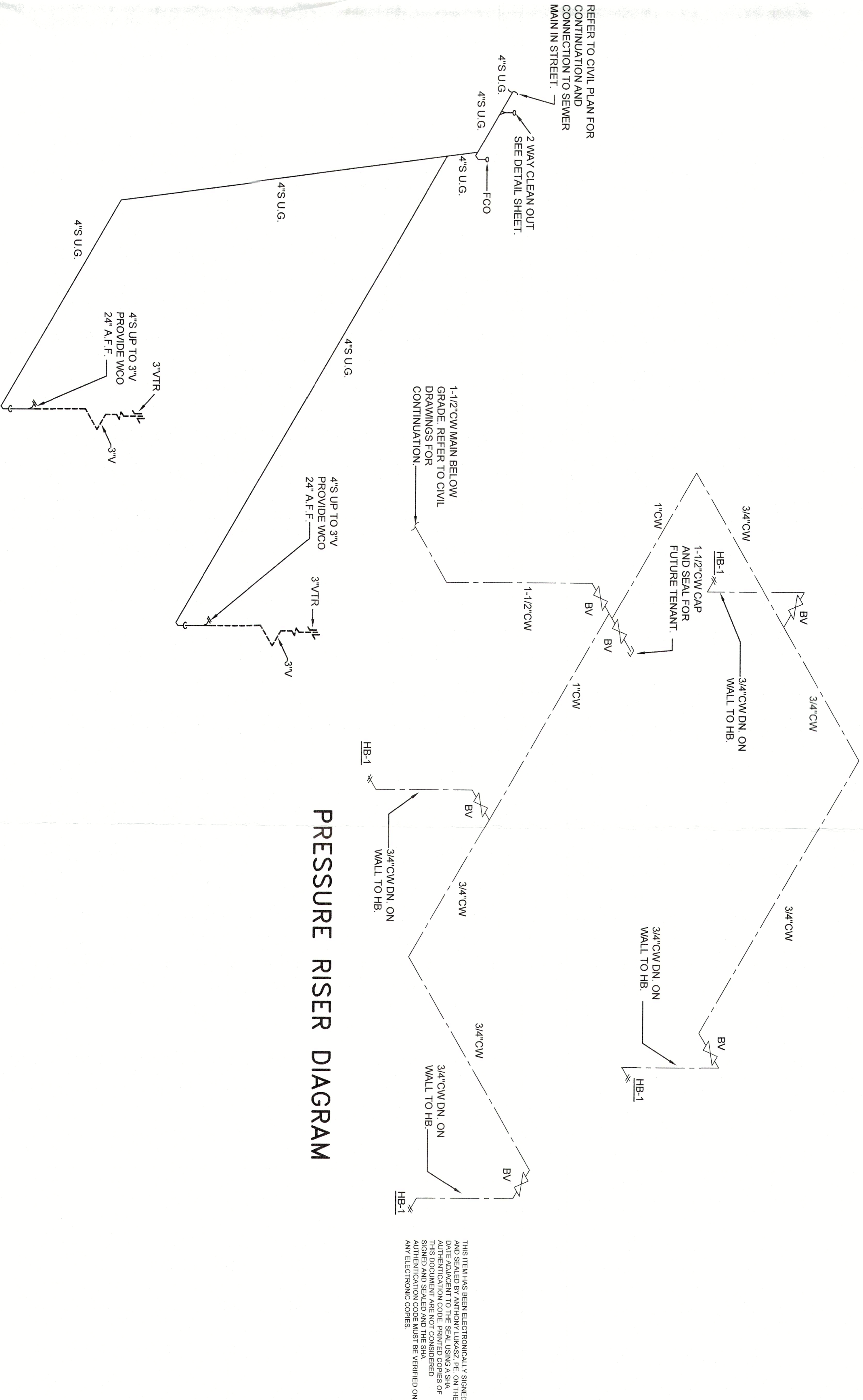


NEW PLUMBING ROOF PLAN
SCALE: 1/8"=1'-0"

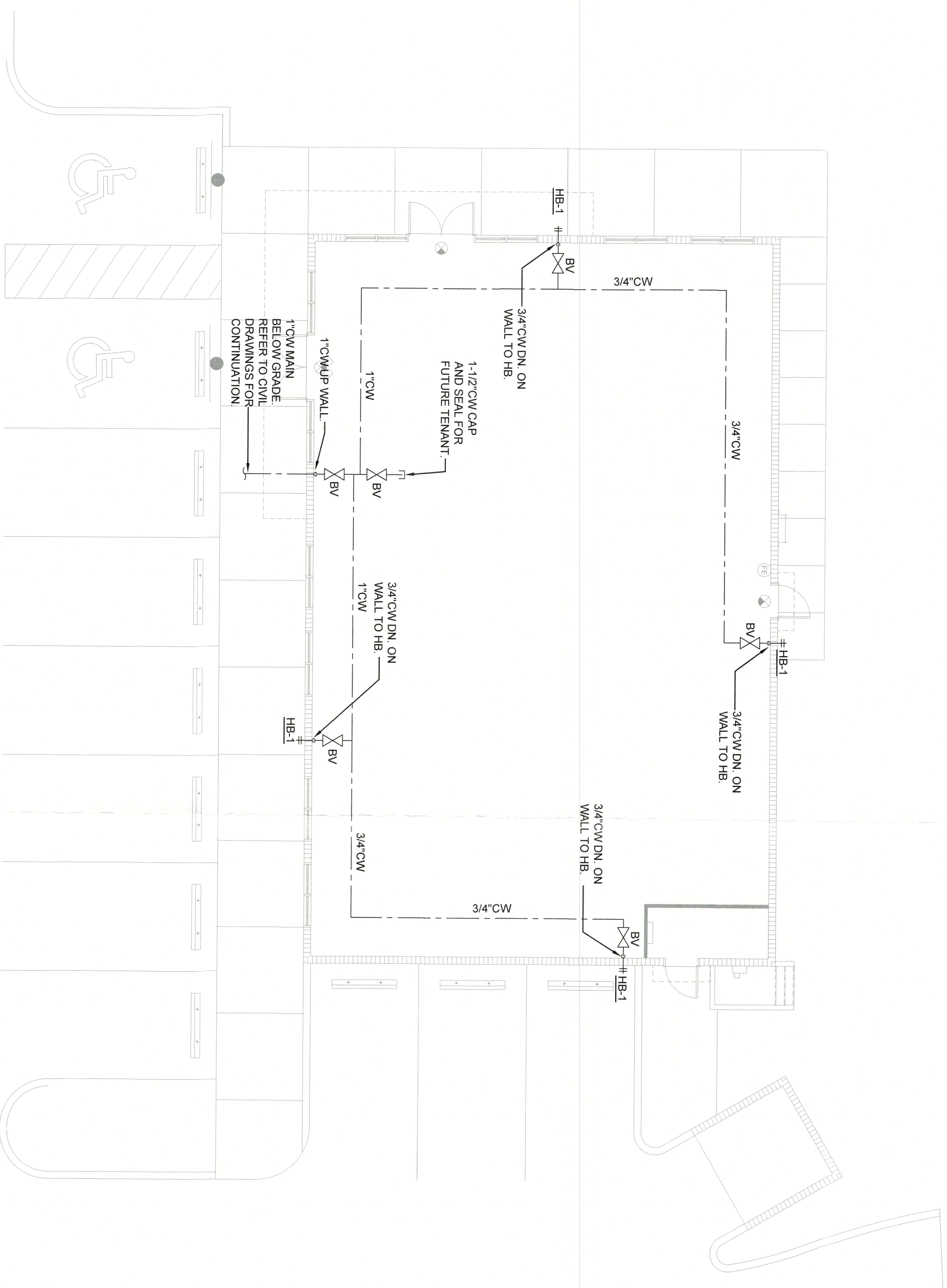


NEW GRAVITY PIPING PLAN
SCALE: 1/8"=1'-0"

GRAVITY RISER DIAGRAM

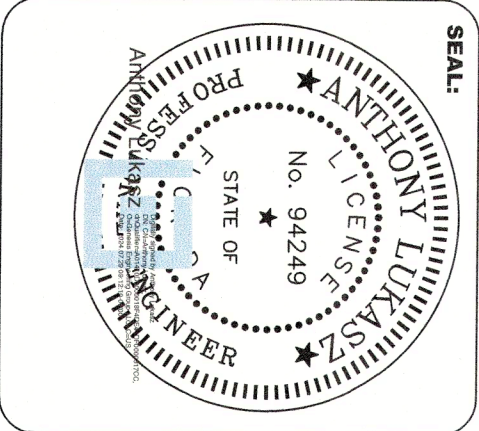


PLUMBING RISER DIAGRAMS
SCALE: NO SCALE



PRESSURE RISER DIAGRAM

BRISTA COMMONS, BUILDING TWO
3120 - 3150 GULF OF MEXICO DRIVE
LONGBOAT KEY, FLORIDA



genesis engineering group, llc
2001 cattlemen rd., ste 501
sarasota, fl 34232
project #24-080

NO.	REVISION	DATE

DATE:	07/15/24
JOB NUMBER:	24-080
FILE NAME:	
DRAWN BY:	RPM
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DRAWING TITLE:	

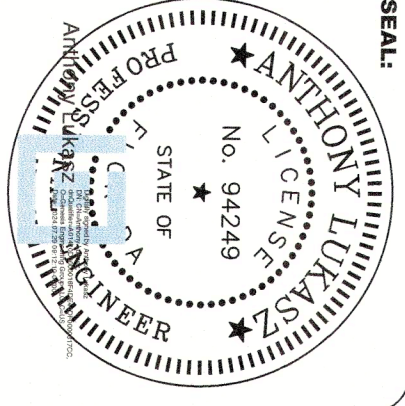
FLOOR PLANS - PLUMBING

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SCALE: AS NOTED

BRISTA COMMONS, BUILDING TWO
3120 - 3150 GULF OF MEXICO DRIVE
LONGBOAT KEY, FLORIDA



AUG 28 2024

SPECIFICATIONS - PLUMBING

DATE: 07/15/2

JOB NUMBER: 24-080

FILE NAME:

DRAWN BY: RCM

CHECKED BY: TL

DRAWING TITLE:

SPECIFICATIONS - PLUMBING

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

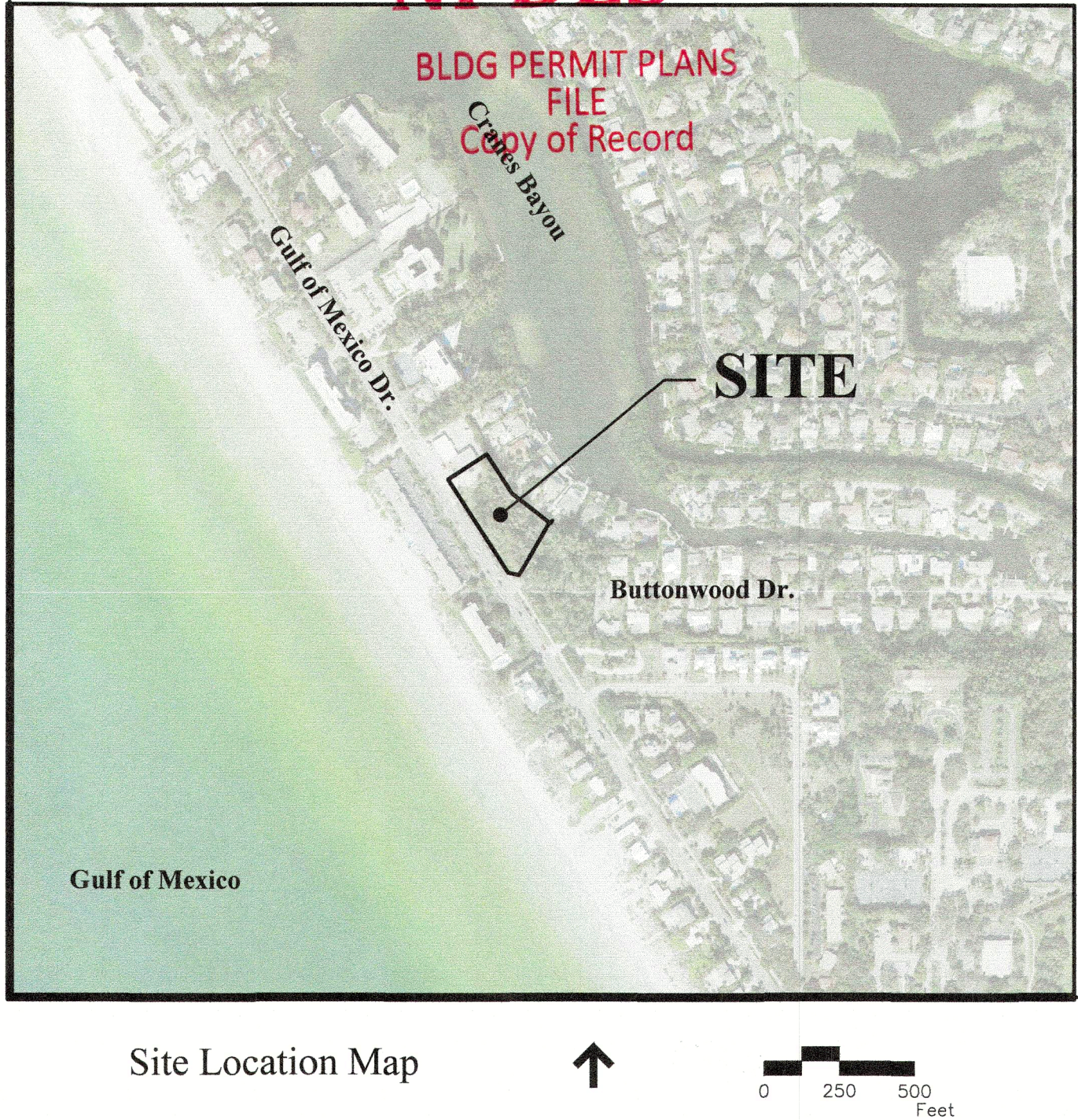
Final Site Plan and Construction Plan

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



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 SUTTONWOOD 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 NONTANGENT 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°28'48W; 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 SIAD BUTTONWOOD HARBOUR SECTION NO. 2; THENCE S 32°56'54" E ALONG SAID SOUTHEASTERLY 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 WITH IN THE ABOVE DESCRIBED PARCEL

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.	

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%)

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	

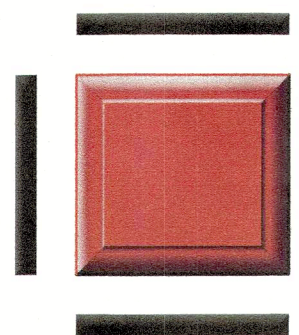
NPDES

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

AUG 28 2024

APPROVED
Reviewer: Nex Bldg
PFMEP

BLDG PERMIT PLANS
FILE
Copy of Record



Shroyer Drapala
Engineering, LLC

608 6th St W, Palmetto FL 34221

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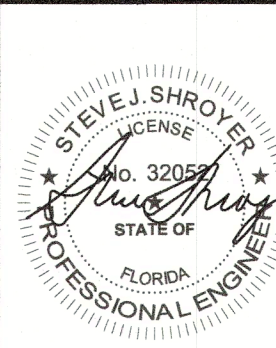
AUG 28 2024

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

F:\PROJECTS\26300 GND & Bottomwood Dr Property\CDM\Plan Set\2 26300 GND.dwg January 05, 2022 - 12:00pm

General

1. TOWN OF LONGBOAT KEY PUBLIC WORKS AND UTILITIES INFRASTRUCTURE SPECIFICATIONS ARE THE MINIMUM ALLOWABLE WATER AND/OR WASTEWATER CONSTRUCTION STANDARDS. WHERE ANY NOTE OR DETAIL ON THESE PLANS, CONFLICT WITH THE TOWN OF LONGBOAT KEY PUBLIC WORKS INFRASTRUCTURE SPECIFICATIONS, THE MORE STRINGENT INTERPRETATION, AS DETERMINED BY THE TOWN'S INFRASTRUCTURE INSPECTOR, SHALL BE APPLIED.

2. CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE CALL" (1-800-432-4770) AT LEAST 72 HOURS BEFORE EXCAVATING.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

4. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

5. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE SOD, UNLESS OTHERWISE NOTED.

6. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.

7. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

8. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.

9. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.

10. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

11. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

12. ALL PROPOSED CONSTRUCTION IS TO MEET OR EXCEED LATEST APPLICABLE TOWN OF LONGBOAT KEY PUBLIC WORKS AND UTILITIES INFRASTRUCTURE SPECIFICATIONS AND IS TO MEET ENGINEER'S SPECIFICATIONS. ALL PROPOSED CONSTRUCTION IS TO BE PRIVATELY OWNED AND MAINTAINED.

13. THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL FP&L, VERIZON AND IRRIGATION SERVICE SLEEVES WITH RESPECTIVE AGENCY PRIOR TO CONSTRUCTION.

14. ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES ARE TO BE LOCATED UNDERGROUND AS DIRECTED BY RESPECTIVE AGENCY.

15. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND ISSUANCE OF ALL COMMENCEMENT AND/OR PROGRESS NOTICES TO GOVERNMENTAL AGENCIES DURING THE COURSE OF CONSTRUCTION, AS REQUIRED FOR INSPECTION, TESTING AND TRACKING PER APPLICABLE AGENCY PERMIT CONDITIONS.

16. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMIT CONDITIONS AND STIPULATIONS FOR ALL LOCAL, REGIONAL AND STATE AGENCIES, INCLUDING, BUT NOT LIMITED TO, FINAL SITE PLANS, UTILITIES, DRAINAGE, FUGITIVE PARTICULATES AND EROSION.

17. ALL UTILITIES AND/OR DRAINAGE SHOWN AS EXISTING WERE DERIVED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION, SIZE, TYPE AND AMOUNT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR TO NOTIFY SUNSHINE UNDERGROUND FACILITIES NOTIFICATION (1-800-432-4770), MCPWD AND FP&L 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION FOR POSSIBLE UTILITY LOCATIONS NOT SHOWN ON PLANS.

18. THE CONTRACTOR IS RESPONSIBLE FOR ESTIMATING AND CALCULATING ALL CUT AND FILL QUANTITIES. PRIOR TO BID SUBMISSION THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOIL TESTS HE DEEMS NECESSARY TO CALCULATE THE CUT AND FILL QUANTITIES PROPERLY. ADDITIONAL SURVEYS AND TESTS MADE BY THE CONTRACTOR SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

19. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL SITE WORK APPROVALS, FROM THE OWNER, AND MAINTAIN A COPY ON-SITE AND FOLLOWING ALL STIPULATIONS OF THE APPROVALS.

20. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL TESTING, FOR INFORMATION SHOWN ON THESE PLANS, AND AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

21. ALL THE SIGNING AND PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS, AND THE TOWN OF LONGBOAT KEY TRAFFIC STANDARDS.
2. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4" MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

3. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR. RECORD DRAWINGS SHALL BE PROVIDED BY THE SURVEYOR AND SHALL CONSIST OF ACTUAL CONSTRUCTION AS-BUILT DATA AND LOCATIONS AND SHALL MEET TOWN OF LONGBOAT KEY PUBLIC WORKS AND UTILITIES INFRASTRUCTURE SPECIFICATIONS (LATEST ISSUE JANUARY 2017).

4. THE CONTRACTOR IS RESPONSIBLE FOR THE PRODUCTION OF REPRODUCIBLE RECORD DRAWINGS. PRIOR TO SCHEDULING OF ANY UNDERGROUND UTILITY PRESSURE TESTS, CONTRACTOR SHALL HAVE OBTAINED (FROM A PROFESSIONAL SURVEYOR) ALL NECESSARY FIELD DATA REQUIRED FOR THE PRODUCTION OF RECORD DRAWINGS. SAID RECORD DRAWINGS ARE TO MEET THE REQUIREMENTS OF TOWN OF LONGBOAT KEY PUBLIC WORKS AND UTILITIES INFRASTRUCTURE SPECIFICATIONS AND FDEP. THE CONTRACTOR SHALL PROCESS SAID DRAWINGS THROUGH TOWN OF LONGBOAT KEY PUBLIC WORKS AND UPON COMPLETION SHALL PROVIDE TWO REPRODUCIBLE MYLARS AND FIVE SETS OF PRINTS OF THE RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR TO THE ENGINEER. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES, AND SHROYER DRAPALA ENGINEERING, LLC. IF CONSTRUCTION STAKEOUT IS PROVIDED BY THE OWNER, THE CONTRACTOR SHALL ACCURATELY RECORD THE LOCATION OF ALL WORK THAT MAY SUBSEQUENTLY BECOME CONCEALED OR INACCESSIBLE, AS WELL AS MARK OR EXPOSE UNDERGROUND FACILITIES AS NECESSARY TO FACILITATE THE PREPARATION OF THE RECORD DRAWINGS BY THE OWNER, AND PROVIDE SAID INFORMATION TO THE OWNER.

5. A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION (OUTSIDE OF PIPE TO OUTSIDE OF PIPE) IS REQUIRED BETWEEN WATER MAINS AND FORCE MAINS, AND BETWEEN WATER MAINS AND GRAVITY SEWER, AND BETWEEN WATER MAINS AND STORM SEWER, AND BETWEEN STORM SEWER AND GRAVITY SEWER. ALL OTHER COMBINATIONS OF WATER, GRAVITY SEWER, FORCE MAIN, RECLAIMED WATER AND STORM SEWER PIPES MUST HAVE 5 FEET OF SEPARATION AT A MINIMUM, EXCEPT FOR GRAVITY SEWER AND FORCE MAINS, WHICH SHALL HAVE A MINIMUM OF 3 FEET OF SEPARATION.

6. CONTRACTOR IS RESPONSIBLE FOR ALL GOVERNMENTAL CONSTRUCTION FEES AND CHARGES, I.E. INSPECTIONS AND TESTING FEES. HOWEVER, IMPACT FEES (FIF), IF APPLICABLE, TO BE PAID BY THE OWNER.

Layout and Materials

1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
3. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
4. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
5. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Demolition

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH.
2. EXISTING UTILITIES SHALL BE TERMINATED, AS NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
3. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

Erosion Control

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SODDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.

Clearing and Grubbing Notes

1. EROSION CONTROL PREVENTIVE METHODS, SILT SCREENING, TO BE IN PLACE PRIOR TO COMMENCEMENT OF EARTHWORK CONSTRUCTION TO MINIMIZE EROSION AND SEDIMENTARY RUNOFF. THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR ANY POTENTIAL EROSION PROBLEMS. IF ANY POTENTIAL EROSION PROBLEMS ARE ENCOUNTERED, OR HAVE OCCURRED, THE CONTRACTOR SHALL INSTALL PROPER EROSION CONTROL MEASURES IMMEDIATELY. STORMWATER TREATMENT FACILITIES ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO UNTREATED RUNOFF OFF-SITE OCCURRING DURING CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY TOWN OF LONGBOAT KEY PUBLIC WORKS DEPARTMENT, PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. ALL EXISTING TREES AND BRUSH DESIGNATED FOR REMOVAL ARE TO BE CLEARED AND DISPOSED OF OFFSITE, OR BURNED ON-SITE IF APPROVED BY THE DISTRICT FIRE DEPARTMENT AND COUNTY HEALTH DEPT.. ALL EXISTING TREES AND UNDERBRUSH AREAS THAT ARE TO REMAIN UNDISTURBED SHALL BE PROTECTED BY BARRICADES. THE CONTRACTOR SHALL INSTALL SAID BARRICADES AT COMMENCEMENT OF CONSTRUCTION AND REMOVE FOLLOWING FINAL GRADING AND LANDSCAPING.
3. SODDING TO BE COMPLETED IMMEDIATELY UPON COMPLETION OF FINISH GRADING. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DUST CONTROL.
4. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATION AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, CONDUCT ANY ADDITIONAL SURVEYS AND SOIL TESTS YOU MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
5. REFER TO EXISTING CONDITIONS PLAN AND DRAINAGE & GRADING PLAN FOR ADDITIONAL NOTES.
6. EXISTING WATER SERVICES ENCOUNTERED OR INTERFERING WITH PROPOSED CONSTRUCTION, TO BE REMOVED BACK TO MAIN AND CAPPED OFF, AT THE TOWN'S INSPECTOR'S DISCRETION.
7. EXOTIC, NUISANCE VEGETATION SHALL BE REMOVED FROM ALL UPLAND AREAS OF THE SITE, AS SHOWN ON THE EXOTIC PLANT SPECIES PLAN, INCLUDING REPLACEMENT, IN ACCORDANCE WITH TOWN OF LONGBOAT KEY REQUIREMENTS.

Existing Conditions Information

1. BASE PLAN: THE PROPERTY LINES SHOWN WERE DETERMINED BY A SURVEY, TOPOGRAPHY AND PHYSICAL FEATURES, BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY PARK COASTAL SURVEYING, LLC.
2. ELEVATIONS SHOWN HERE ON ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AS PER THE NGS BENCHMARK "872 3622 TIDAL 1 1935" (PID AC1038) PUBLISHED ELEVATION = 4.63'.

Drainage And Grading Notes

1. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
2. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST TOWN OF LONGBOAT KEY PLANNING, PERMITTING AND INSPECTIONS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWM) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES AND TO SHROYER DRAPALA ENGINEERING, LLC. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER ELEVATION (NWL), AT HIGH WATER ELEVATION (HWL25), TOP OF BANK AND ALL MITIGATION AND/OR LITTORAL SHELF AREAS.
3. TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
4. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY TOWN OF LONGBOAT KEY PUBLIC WORKS DEPARTMENT, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF- SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.
6. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS HE MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
7. THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.
8. ALL BIDDERS ARE HEREBY ADVISED THAT ALL EXCAVATION ON THIS PROJECT MUST COMPLY WITH FLORIDA STATUTE 90-96 "TRENCH SAFETY ACT", AND THAT THE COST OF COMPLIANCE IS TO BE INCLUDED IN HIS BASE BID. THE BIDDER SHALL INDICATE ON THE BID FORM THE COSTS ASSOCIATED WITH COMPLIANCE.
9. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
10. REFER TO GRADING DETAIL SHEETS FOR CROSS SECTION DETAILS.
11. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
12. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
13. THE CONTRACTOR IS TO REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON-SITE TESTING TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING.
14. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH VERIFICATION OF FINAL GRADES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
15. TV VIDEO INSPECTION IS REQUIRED FOR ALL STORMWATER PIPES (INCLUDING PRIVATE SYSTEMS).

Utilities

1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
3. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
4. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
5. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITE WORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. SITE CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.
6. ALL UTILITY AND DRAINAGE PIPE SHALL BE PROPERLY DEWATERED AND BEDDING PROVIDED IN ACCORDANCE WITH TOWN OF LONGBOAT KEY PUBLIC WORKS AND UTILITIES INFRASTRUCTURE SPECIFICATIONS, TO ENSURE A STABLE TRENCH BOTTOM, TO PROPERLY SUPPORT THE PIPE, AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL OBTAIN THE LATEST COPY OF THE DESIGN PLANS AND CONFIRM CONSISTENCY WITH THE UTILITY SERVICE PLANS, PRIOR TO INSTALLATION OF THE UTILITIES. ANY VARIANCE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD, PRIOR TO CONSTRUCTION.

STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM:

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: **Brista Homes** FDEP NPDES Stormwater Identification Number: **FFLR10**

Location	Rain data	Type of control (see below)	Date installed /modified	Current Condition (see below)	Corrective Action/ Other Remarks

Condition Code:
G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement
C = Needs to be cleaned O = Other

Control Type Codes

1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Detention pond
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Retention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Waste disposal / housekeeping
4. Swale	13. Retention Pond	22. Temporary Sod	31. Dam
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent Sod	32. Sand Bag
6. Check dam	15. Perimeter ditch	24. Mulch	33. Other
7. Subsurface drain	16. Curb and gutter	25. Geotextile	
8. Pipe slope drain	17. Paved road surface	26. Rip-rap	
9. Level spreaders	18. Rock outlet protection	27. Tree protection	

Inspector Information:

Name	Qualification	Date

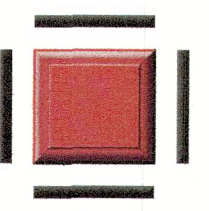
The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities If there are not any incidents of non-compliance identified above.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Responsible Authority)	Date

STORMWATER POLLUTION PREVENTION PLAN

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE "STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM", WHICH WILL BE KEPT ON SITE BY THE CONTRACTOR. INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER.



**Shroyer
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E-Mail: info@ShroyerDrapala.com

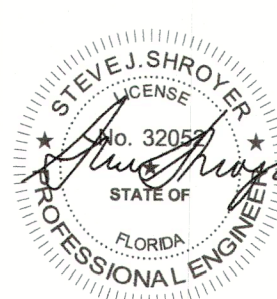
Submitted For:

Design By:	Drawn By:	Checked By:
JEC	TMF	JEC
Drawing Scale:	Drawing Date:	
N.T.S.	1/20/21	

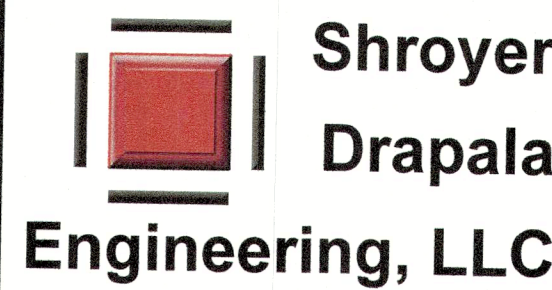
General Notes
For
Brista Homes

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

FSP-2



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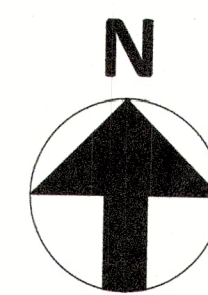
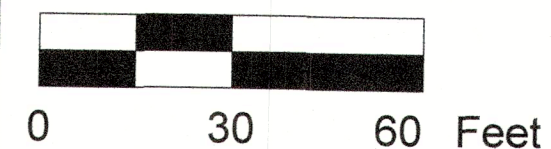


P.O. Box 9282
Bradenton, FL 34206

1111 3rd Ave. W.
Suite 210
Bradenton, FL 34205

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Submitted For



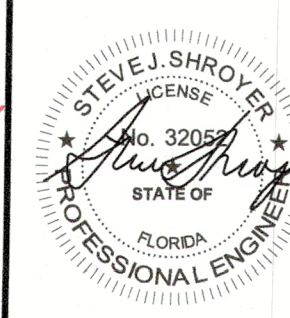
Design By:	Drawn By:	Checked By:
JEC	TMF	JEC
Drawing Scale:		Drawing Date:
1" = 30'		1/20/22

Existing Conditions and ESC Plan

For
Brista Homes

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

FSP-3



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3 26300 EX COND-FSCB DWG

NOTES:

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.
6. EROSION CONTROL PREVENTIVE METHODS, SILT SCREENING AND/OR HAY BALES, TO BE IN PLACE PRIOR TO COMMENCEMENT OF EARTHWORK CONSTRUCTION TO MINIMIZE EROSION AND SEDIMENTARY RUNOFF. THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR ANY POTENTIAL EROSION PROBLEMS. IF ANY POTENTIAL EROSION PROBLEMS ARE ENCOUNTERED, OR HAVE OCCURRED, THE CONTRACTOR SHALL INSTALL PROPER EROSION CONTROL MEASURES IMMEDIATELY. STORMWATER TREATMENT FACILITIES ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO UNTREATED RUNOFF OFF-SITE OCCURRING DURING CONSTRUCTION.
7. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY TOWN OF LONGBOAT, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. ALL EXISTING TREES AND BRUSH DESIGNATED FOR REMOVAL ARE TO BE CLEARED AND DISPOSED OF OFFSITE, OR BURNED ON-SITE IF APPROVED BY THE DISTRICT FIRE DEPARTMENT AND COUNTY HEALTH DEPT.. ALL EXISTING TREES AND UNDERBRUSH AREAS THAT ARE TO REMAIN UNDISTURBED SHALL BE PROTECTED BY BARRICADES. THE CONTRACTOR SHALL INSTALL SAID BARRICADES AT COMMENCEMENT OF CONSTRUCTION AND REMOVE FOLLOWING FINAL GRADING AND LANDSCAPING.
9. SODDING AND/OR GRASSING TO BE COMPLETED IMMEDIATELY UPON COMPLETION OF FINISH GRADING. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DUST CONTROL.
10. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATION AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, CONDUCT ANY ADDITIONAL SURVEYS AND SOIL TESTS YOU MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
11. EXISTING WATER SERVICES ENCOUNTERED TO BE REMOVED BACK TO MAIN AND CAPPED OFF.
12. EXOTIC, NUISANCE VEGETATION SHALL BE REMOVED FROM ALL UPLAND AREAS OF THE SITE, AS SHOWN ON THE EXOTIC PLANT SPECIES PLAN, INCLUDING REPLACEMENT, IN ACCORDANCE WITH MANATEE COUNTY REQUIREMENTS.
13. ELEVATIONS BASED ON DNR MONUMENT RM-6 WITH A PUBLISHED ELEVATION OF 4.88 ELEVATIONS SHOWN HAVE BEEN CONVERTED TO NAVD 1988 DATUM USING CORPSCON 6 CONVERSION SOFTWARE.

PROPOSED TYPE III SILT SCREENING, FOR
EROSION AND SEDIMENT CONTROL, TO
BE INSTALLED PRIOR TO COMMENCEMENT
OF CONSTRUCTION (TYP)

COMMON LINE OF
LANDS DESCRIBED IN
O.R. 893, PG. 787
& O.R. 893, PG. 789

PROPOSED EROSION CONTROL CURB
INLET AND INLET GRATE EROSION
CONTROL, TO BE INSTALLED PRIOR TO
COMMENCEMENT OF CONSTRUCTION (TYPE

CONTRACTOR TO REMOVE EXIST.
INACTIVE CONC. BUS STOP

PROPOSED SOIL TRACKING
PREVENTION • CONSTRUCTION
ENTRANCE (SEE DETAIL FOR
SPECIFICATIONS)

C:\Users\Shroyer Drapala\Projects - Documents\26300 GMD & Buttonwood Dr Property\CADD\Plan Set\3 26300 EX COND-ESCP.dwg May 20, 2024 - 9:46am

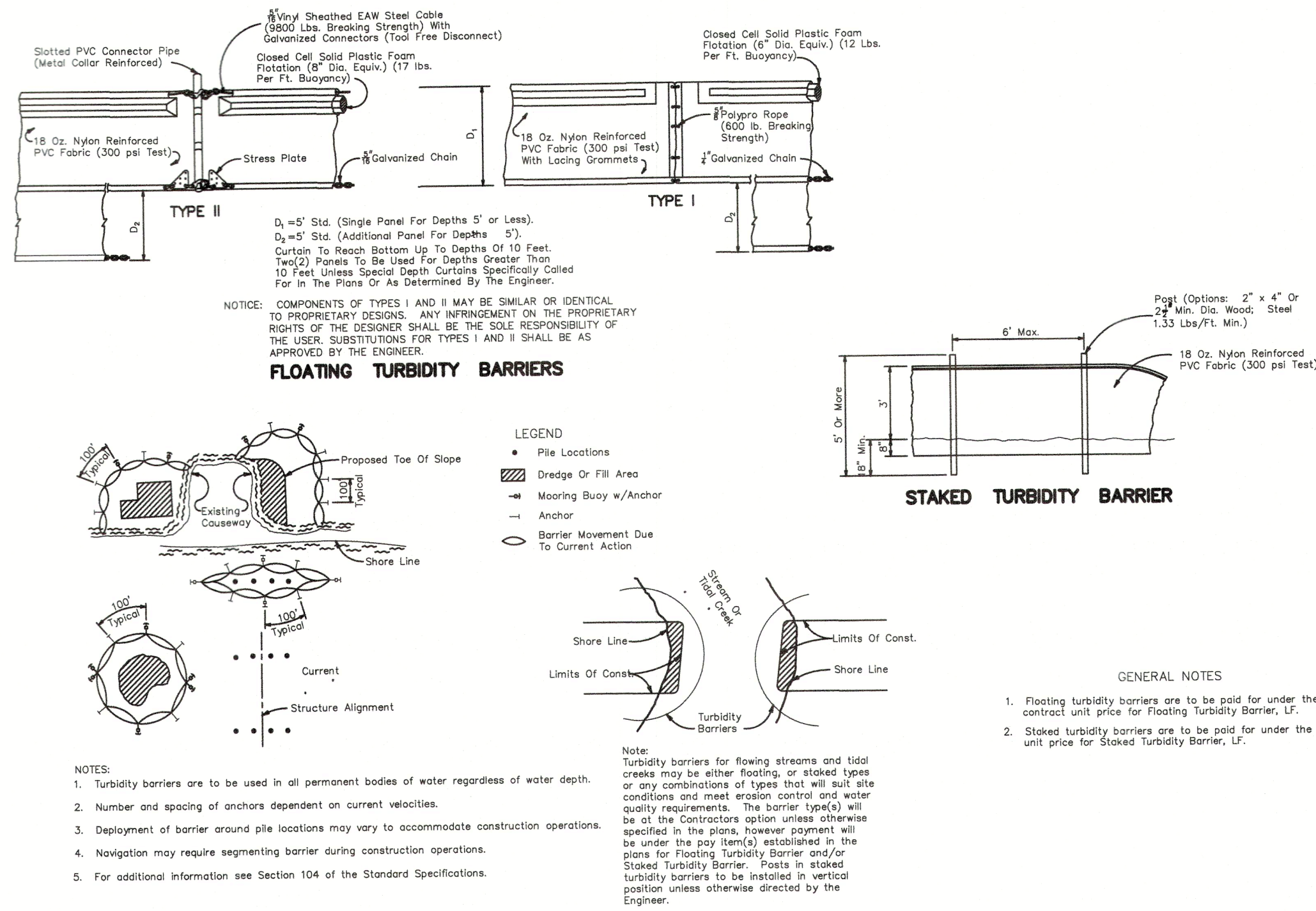
Submitted For:

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

FSP-4

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Turbidity Barriers

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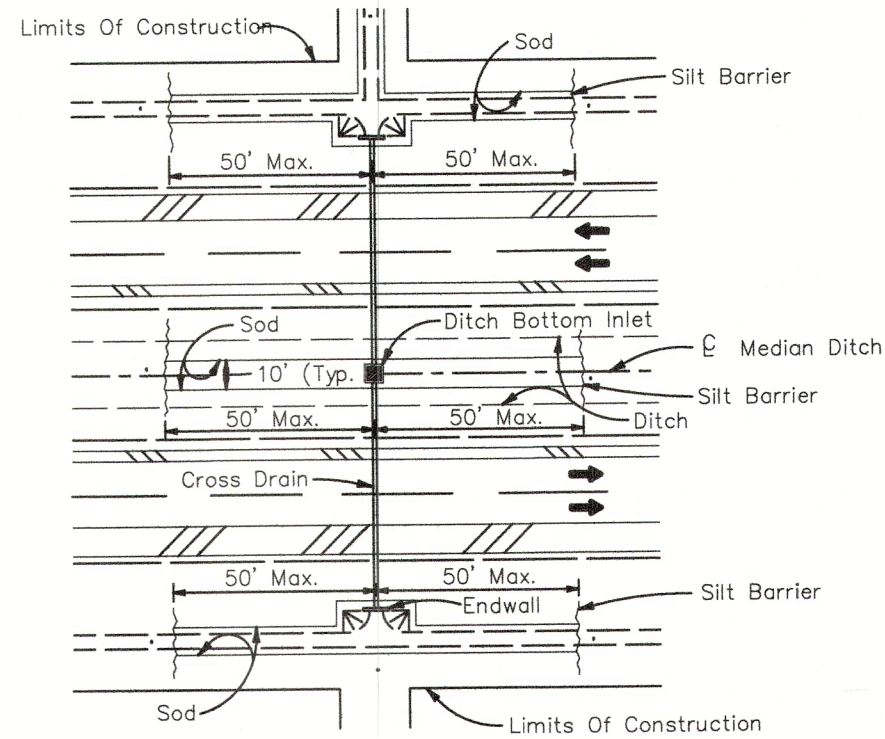
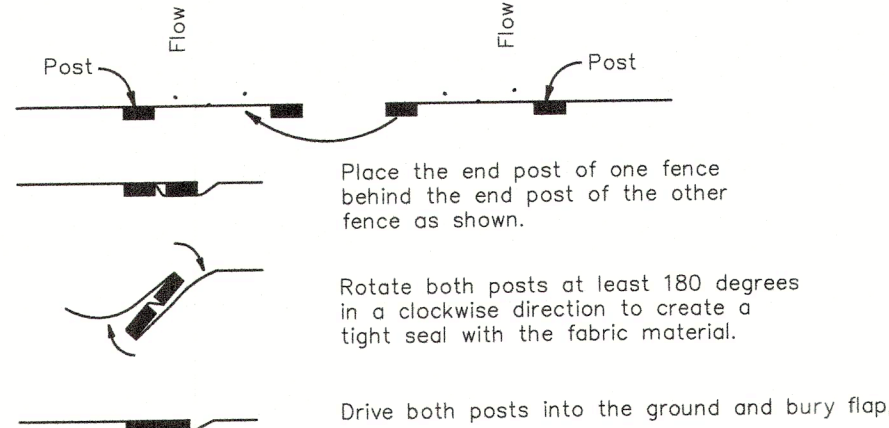
Source: FDOT Index No. 103

Soil Tracking Prevention

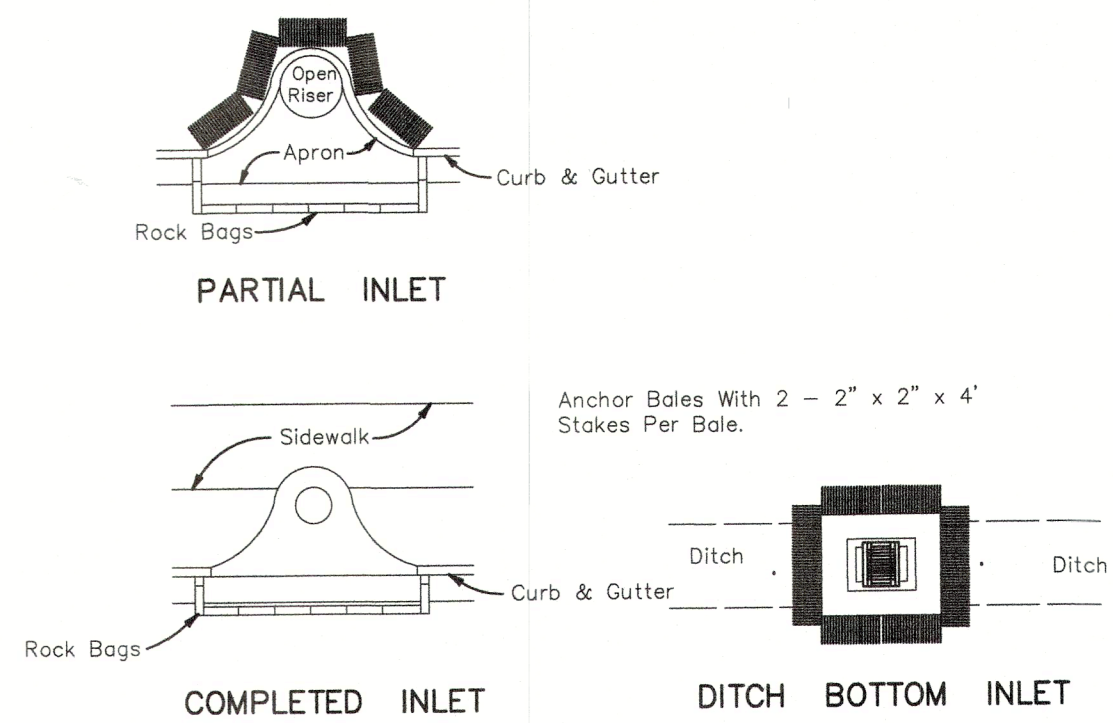
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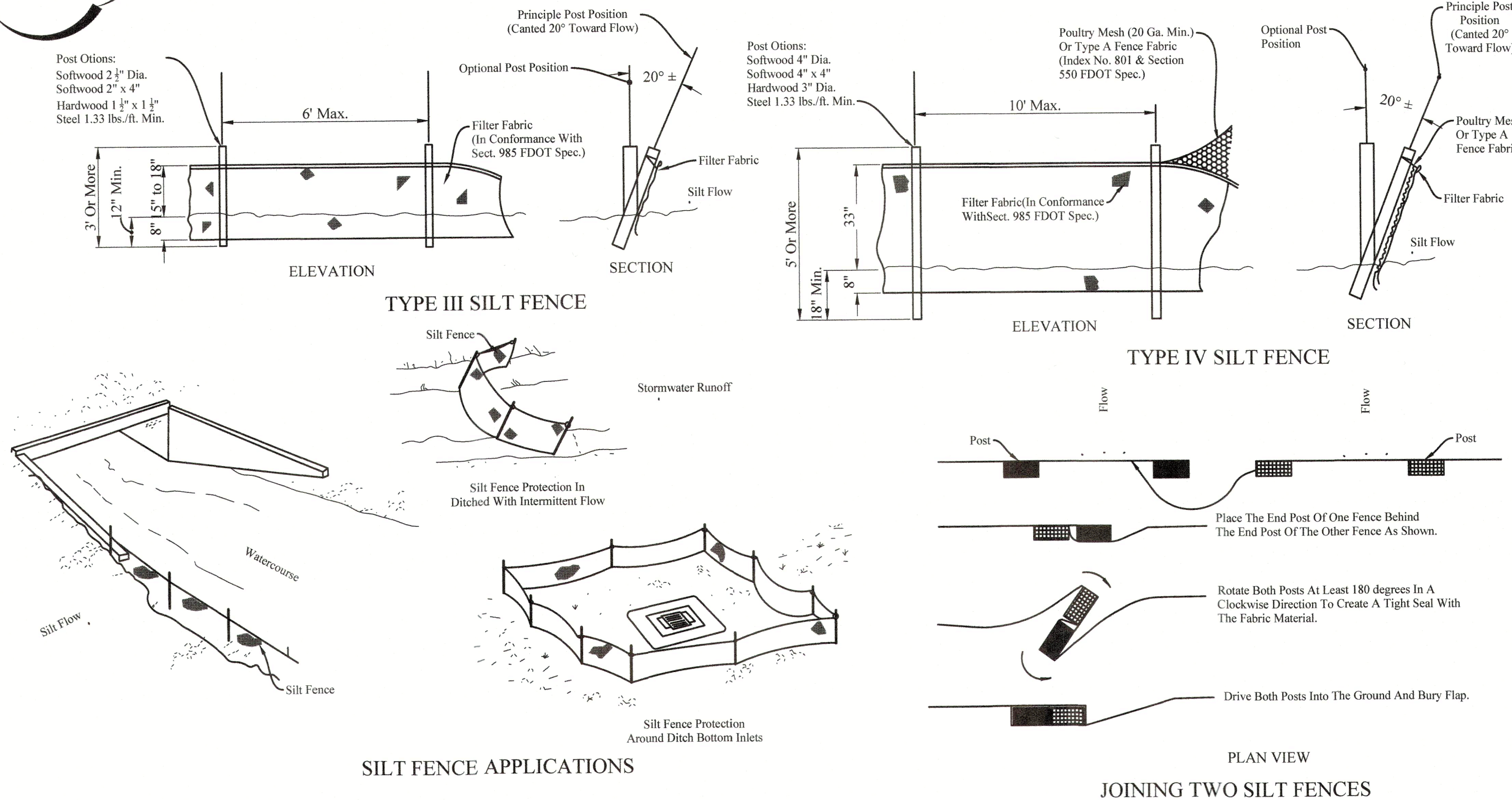
PLEASE REFER TO FSP 3 FOR
ADDITIONAL EROSION AND
SEDIMENT CONTROL PLAN &
DETAILS



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

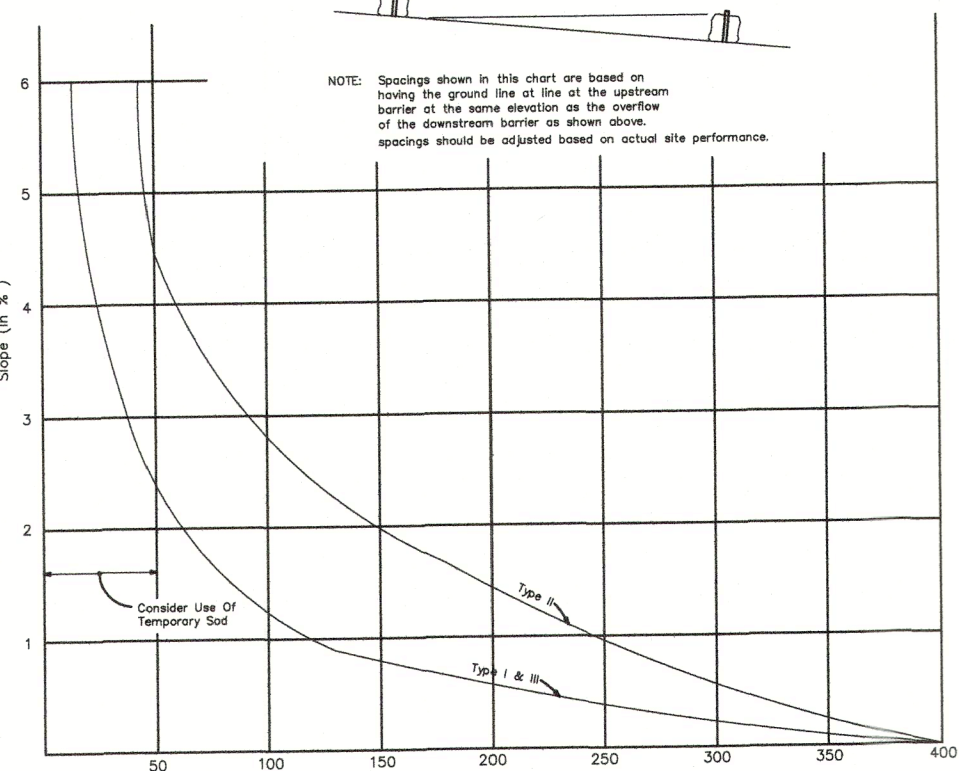
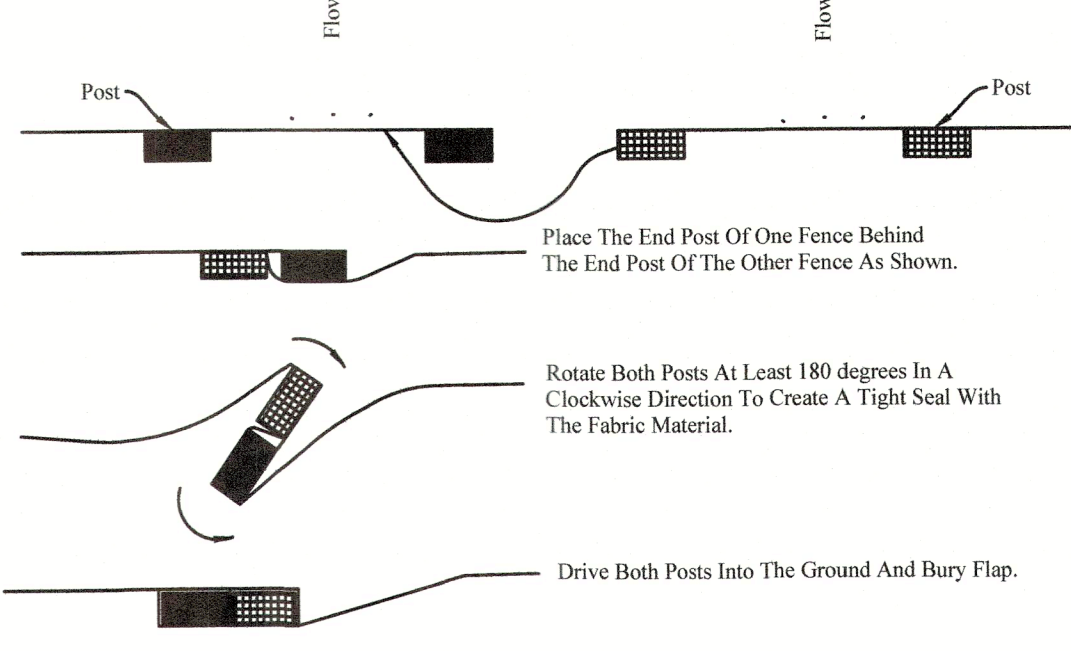


SILT FENCE APPLICATIONS

NOTES FOR SILT FENCES

- 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.
- 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.
- 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.
- 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.
- Silt Fence to be paid for under the contract unit price for Sediment Barrier, (LF).

JOINING TWO SILT FENCES



Temporary Erosion and Sediment Control

N.T.S.

Source: FDOT Index No. 103

Type III and Type IV Temporary Erosion and Sediment Control

N.T.S.

Source: FDOT Index No. 102

01/01/10

F:\PROJECTS\26300 GMD & Buttonwood Dr. Property\GDD\Plan Set\4-5 26300 ESCP DETAILS.dwg January 05, 2022 -- 1:33pm

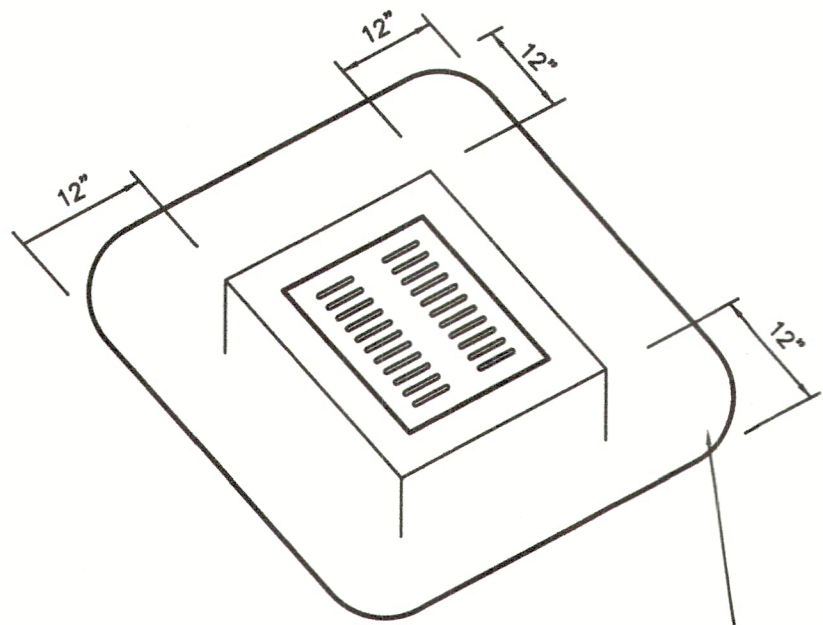
EROSION AND SEDIMENT CONTROL PLAN

Project Name: Brista Homes
MC Number:
SDE Project Number: 23600

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 this 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".
4.	<p>Water Quality Monitoring Plan and monitoring stations (if applicable).</p> <p>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> <p>1. Obtain all applicable approvals (Final Site Plan, Construction Plans, Environmental Resource Permit and NPDES Permit).</p> <p>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.</p> <p>3. Stake all silt screen locations every one hundred (100) feet, as indicated on the approved Final Site Plan/Construction Plans.</p>	Acknowledged.



FILTER CLOTH TO BE PLACED UNDER INLET GRATE DURING SITE WORK CONSTRUCTION

NOTE: HAY BALES SURROUNDING ENTIRE PERIMETER OF INLET MAY BE SUBSTITUTED FOR FILTER CLOTH

Inlet Debris Control Screen

N. T.S.

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Planning, Zoning & Building



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Shroyer
Drapala
Engineering, LLC

P.O. Box 9282 1111 3rd Ave. W.
Bradenton, FL 34206 Suite 210
Bradenton, FL 34205

Phone: (941) 746-4000
E-Mail: info@ShroyerDrapala.com

Submitted For:

ESC Plan Details

For
Brista Homes

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

FSP-5

Submitted For:

0 30 60 Feet



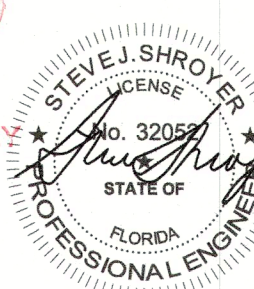
Design By:	Drawn By:	Checked By:
JEC	TMF	JEC
Drawing Scale:	Drawing Date:	
1" = 30'	1/20/22	

Final Site Plan
For
Brista Homes

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

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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: 45 SPA. (4 ADA)

OFFICE = $\frac{1}{300}$ SF, MEDICAL & DENTAL = $\frac{1}{200}$ SF, RESTAURANTS = $\frac{1}{100}$ SF

Setback and Buffer Requirements

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

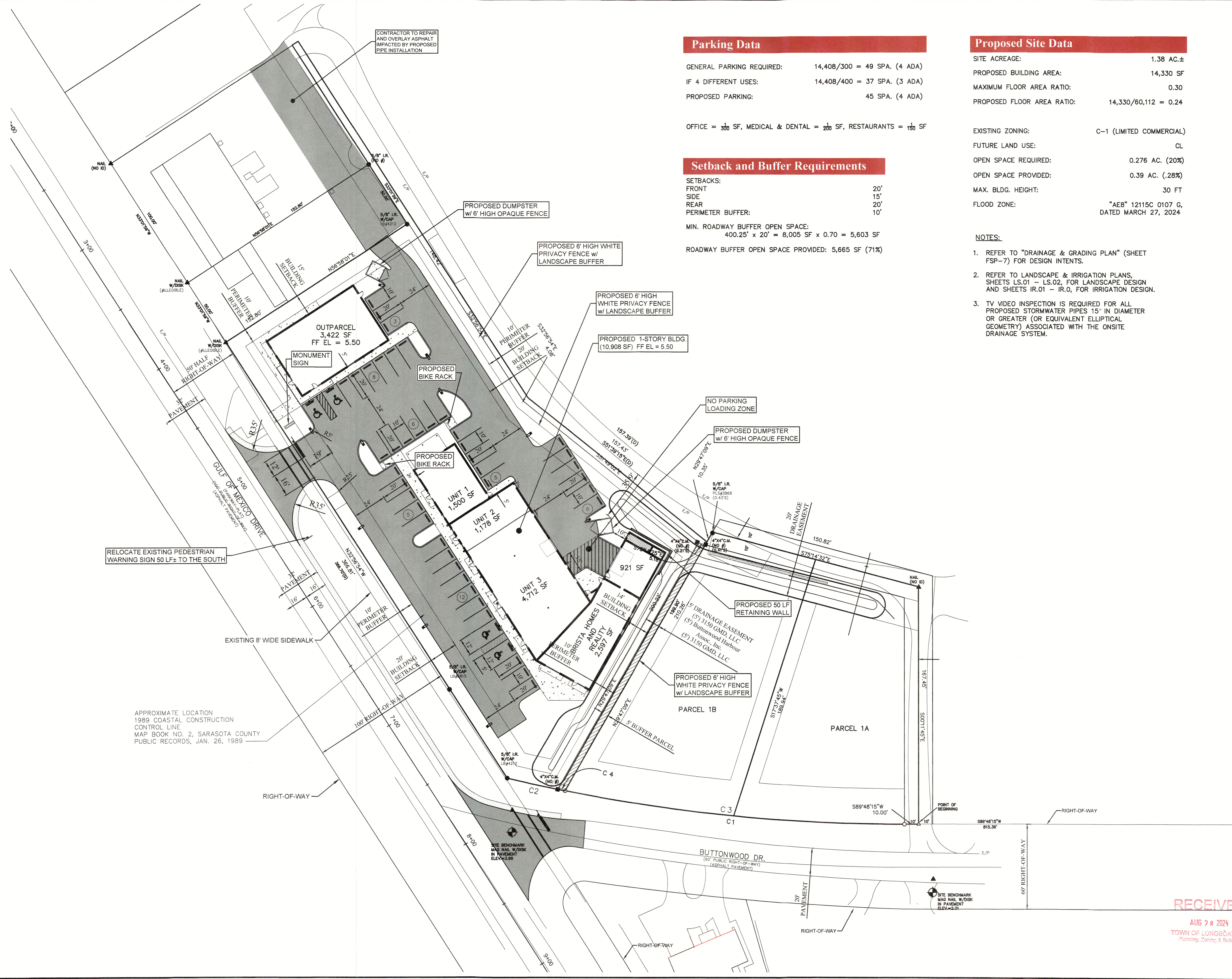
Proposed Site Data

SITE ACREAGE: 1.38 AC.±
PROPOSED BUILDING AREA: 14,330 SF
MAXIMUM FLOOR AREA RATIO: 0.30
PROPOSED FLOOR AREA RATIO: 14,330/60,112 = 0.24

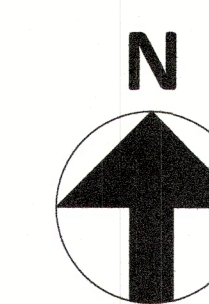
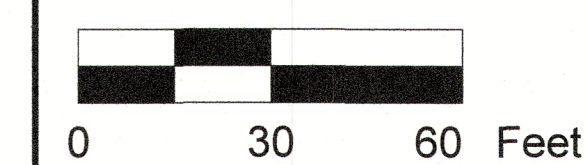
EXISTING ZONING: C-1 (LIMITED COMMERCIAL)
FUTURE LAND USE: CL
OPEN SPACE REQUIRED: 0.276 AC. (20%)
OPEN SPACE PROVIDED: 0.39 AC. (.28%)
MAX. BLDG. HEIGHT: 30 FT
FLOOD ZONE: "AE8" 12115C 0107 G,
DATED MARCH 27, 2024

NOTES:

- REFER TO "DRAINAGE & GRADING PLAN" (SHEET FSP-7) FOR DESIGN INTENTS.
- REFER TO LANDSCAPE & IRRIGATION PLANS, SHEETS LS.01 - LS.02, FOR LANDSCAPE DESIGN AND SHEETS IR.01 - IR.0, FOR IRRIGATION DESIGN.
- TV VIDEO INSPECTION IS REQUIRED FOR ALL PROPOSED STORMWATER PIPES 15" IN DIAMETER OR GREATER (OR EQUIVALENT ELLIPTICAL GEOMETRY) ASSOCIATED WITH THE ONSITE DRAINAGE SYSTEM.



Submitted For:



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


Drainage and Grading Plan
For
Brista Homes
Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida

FSP-7

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Basin Summary	
Total Basin Area	1.55 Acre
Treat Basin Area	1.38 Acre
Impervious Area	
Building	0.33 Acre
Exist Pavement	0.58 Acre
Exist Conc & Swk	0.08 Acre
Total Existing	0.99 Acre
Total Imperv. = 0.99 Ac (71.74%)	

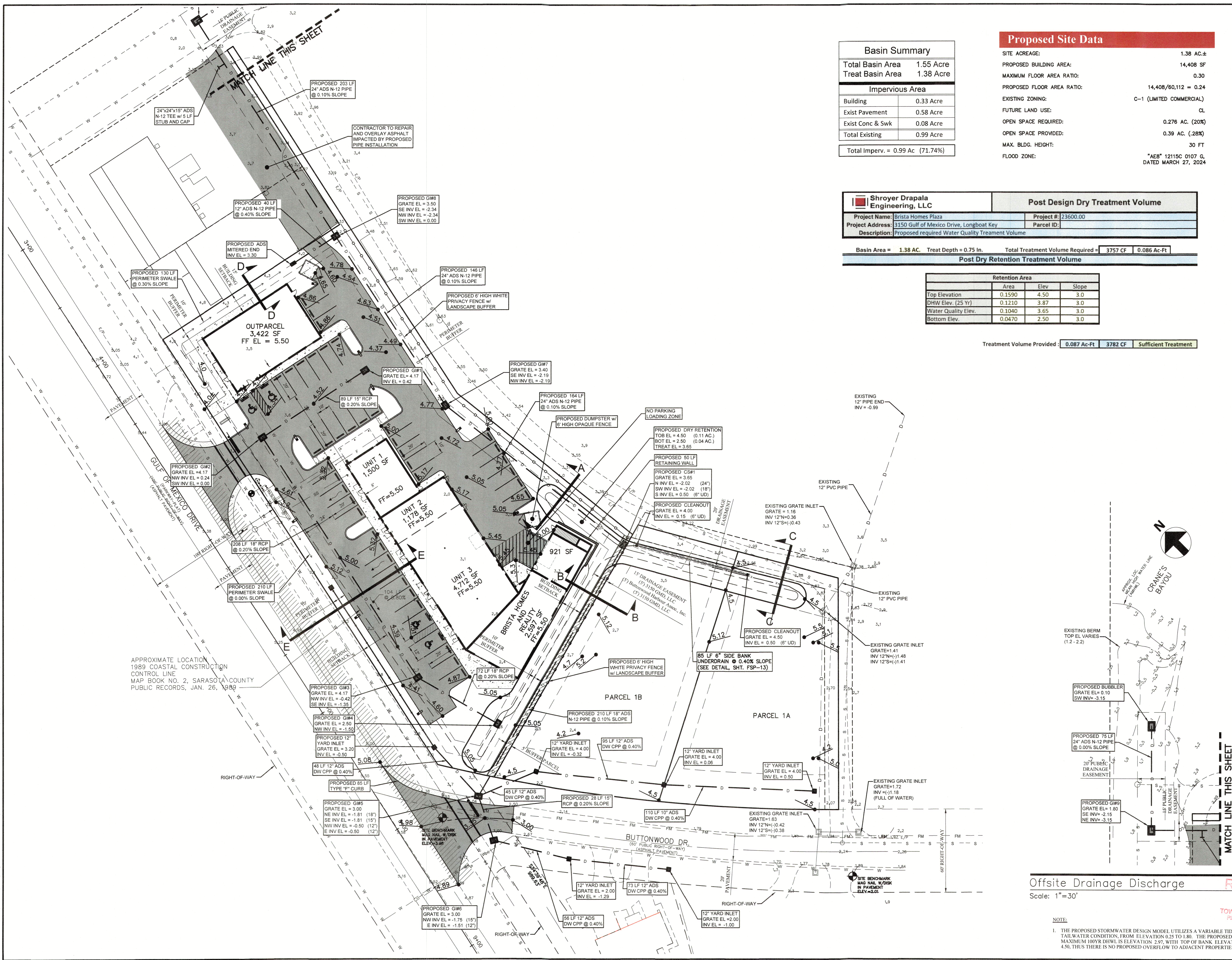
Proposed Site Data	
SITE ACREAGE:	1.38 AC.±
PROPOSED BUILDING AREA:	14,408 SF
MAXIMUM FLOOR AREA RATIO:	0.30
PROPOSED FLOOR AREA RATIO:	14,408/60,112 = 0.24
EXISTING ZONING:	C-1 (LIMITED COMMERCIAL)
FUTURE LAND USE:	CL
OPEN SPACE REQUIRED:	0.276 AC. (20%)
OPEN SPACE PROVIDED:	0.39 AC. (28%)
MAX. BLDG. HEIGHT:	30 FT
FLOOD ZONE:	"AEB" 12115C 0107 G, DATED MARCH 27, 2024

 Shroyer Drapala Engineering, LLC		Post Design Dry Treatment Volume	
Project Name: Brista Homes Plaza		Project #: 23600.00	
Project Address: 3150 Gulf of Mexico Drive, Longboat Key		Parcel ID:	
Description: Proposed required Water Quality Treatment Volume			

Basin Area =	1.38 AC.	Treat Depth = 0.75 In.	Total Treatment Volume Required =	3757 CF	0.086 Ac-Ft
Post Dry Retention Treatment Volume					

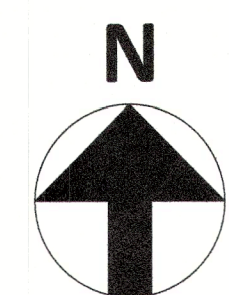
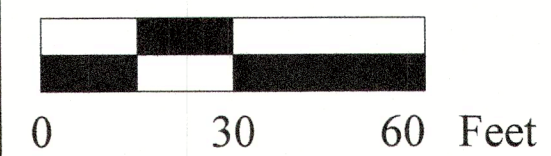
Retention Area			
	Area	Elev	Slope
Top Elevation	0.1590	4.50	3.0
DHW Elev. (25 Yr)	0.1210	3.87	3.0
Water Quality Elev.	0.1040	3.65	3.0
Bottom Elev.	0.0470	2.50	3.0

Treatment Volume Provided: 0.087 Ac-Ft 3782 CF Sufficient Treatment



Offsite Drainage Discharge
Scale: 1"=30'
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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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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

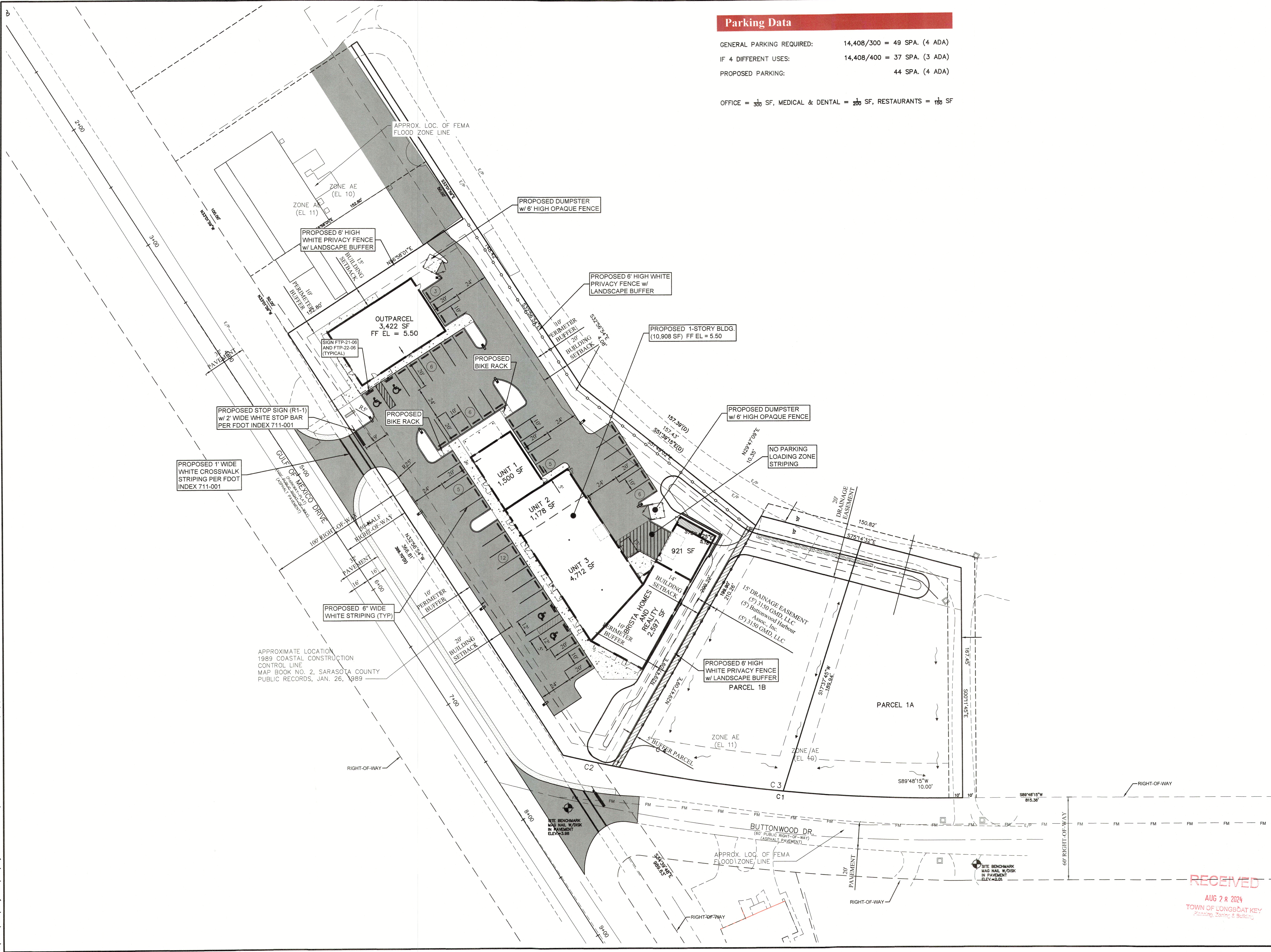
- Existing Water Service
- Existing Fire Line
- Existing Fire Hydrant
- Existing Water Meter
- Existing Backflow Preventer (BFP)
- Existing Gate Valve (GV)
- Existing Sanitary Service
- Existing Sanitary Cleanout (CO)

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 RESTORATION WILL BE REVISED IN ACCORDANCE WITH ANY SEWER SERVICE CONSTRUCTION.
- THE LOCATION OF UTILITIES, FOUNDATIONS OR STRUCTURES, ABOVE OR BENEATH 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 4.88. ELEVATIONS SHOWN HAVE BEEN CONVERTED TO NAVD 1988 DATUM USING CORPSCON 6 CONVERSION SOFTWARE.

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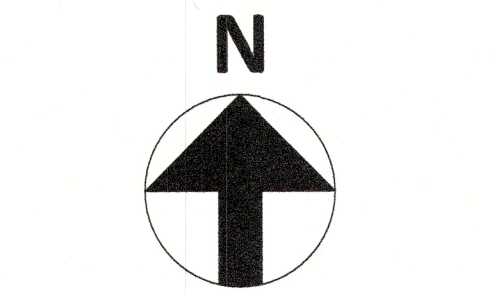
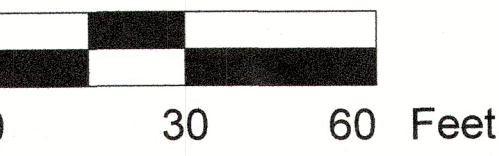
Parking Data

GENERAL PARKING REQUIRED: 14,408/300 = 49 SPA. (4 ADA)
IF 4 DIFFERENT USES: 14,408/400 = 37 SPA. (3 ADA)
PROPOSED PARKING: 44 SPA. (4 ADA)

OFFICE = 1/300 SF, MEDICAL & DENTAL = 1/200 SF, RESTAURANTS = 1/150 SF

**Shroyer
Drappala
Engineering, LLC**
P.O. Box 9282 Suite 210
Bradenton, FL 34206
1111 3rd Ave. W.
Suite 210
Bradenton, FL 34205
Phone: (941) 746-4000
E-Mail: info@ShroyerDrappala.com

Submitted For:



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

Signage and Marking Plan
For
Brista Homes
Section 7, Township 36 S, Range 17 E
Town of Longboat Key, Florida

FSP-9

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TOWN OF LONGBOAT KEY
Planning, Zoning & Building

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Submitted For:

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

Cross Sections
For

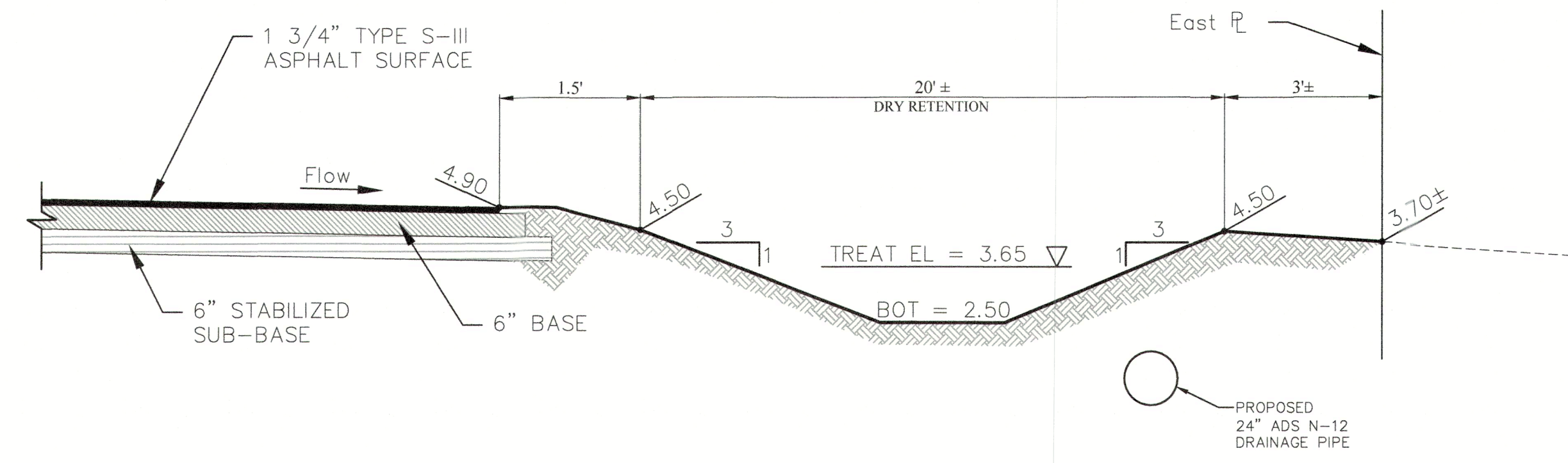
Brista Homes

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

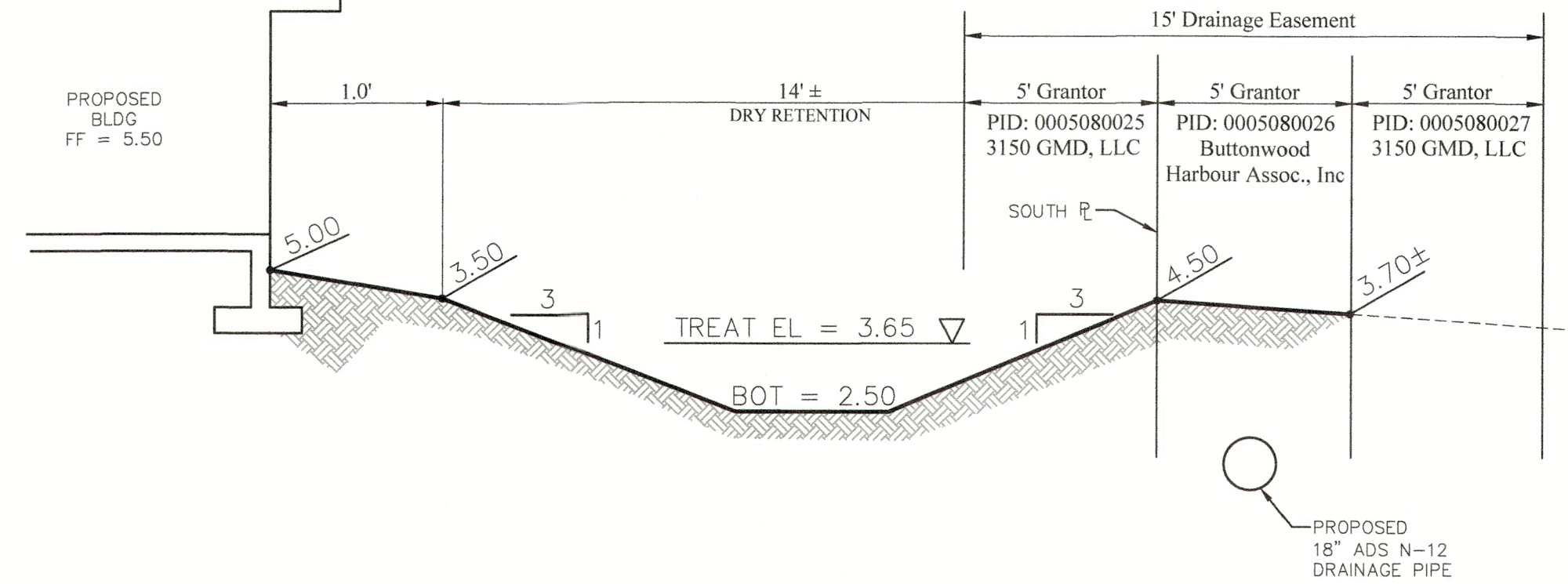
FSP-10

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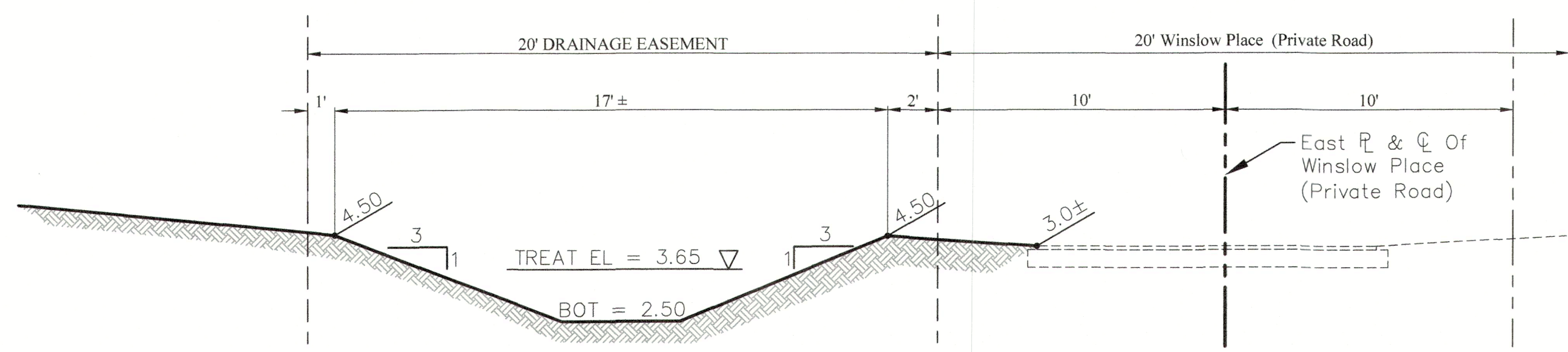
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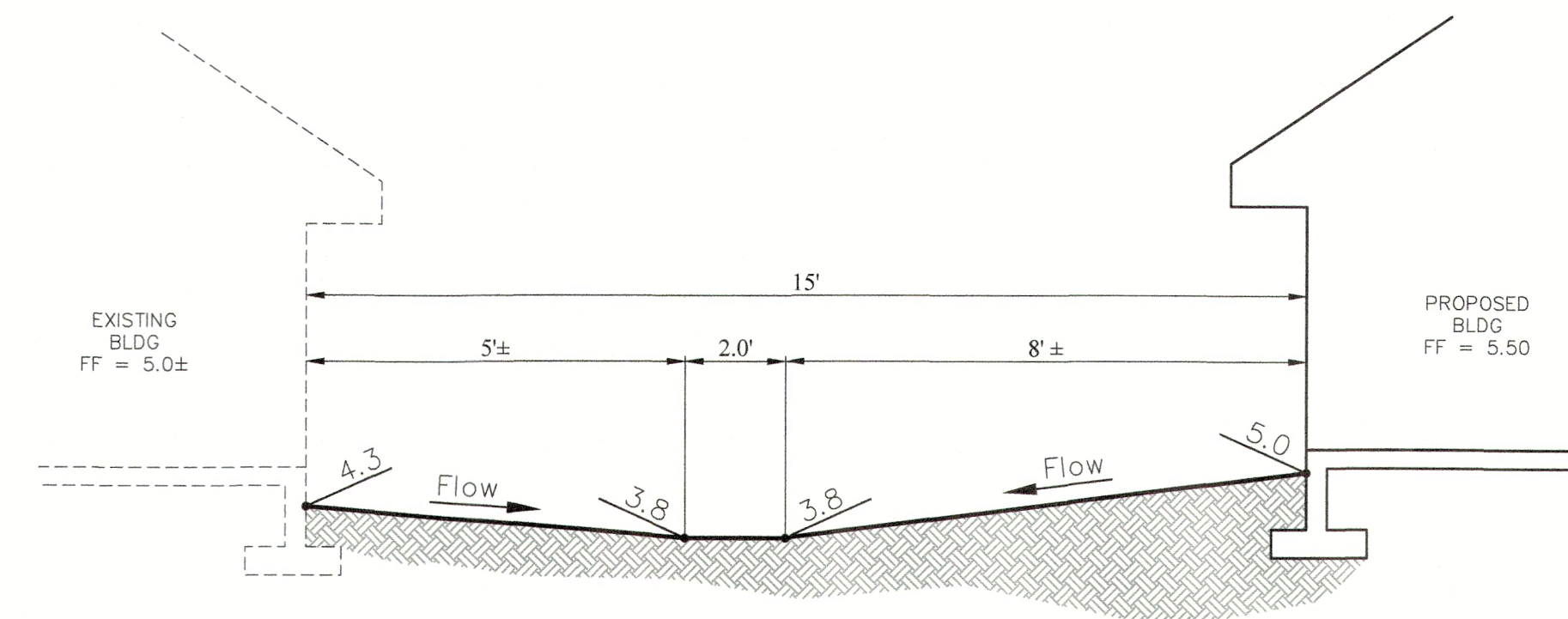
Section A-A
N.T.S.



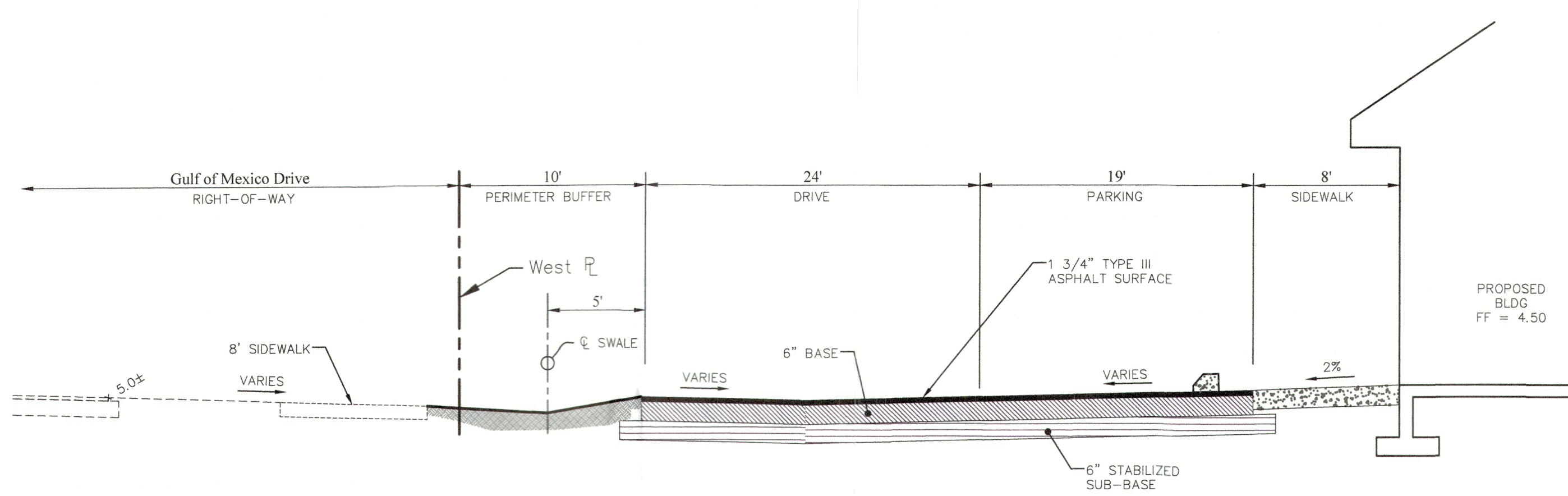
Section B-B
N.T.S.



Section C-C
N.T.S.

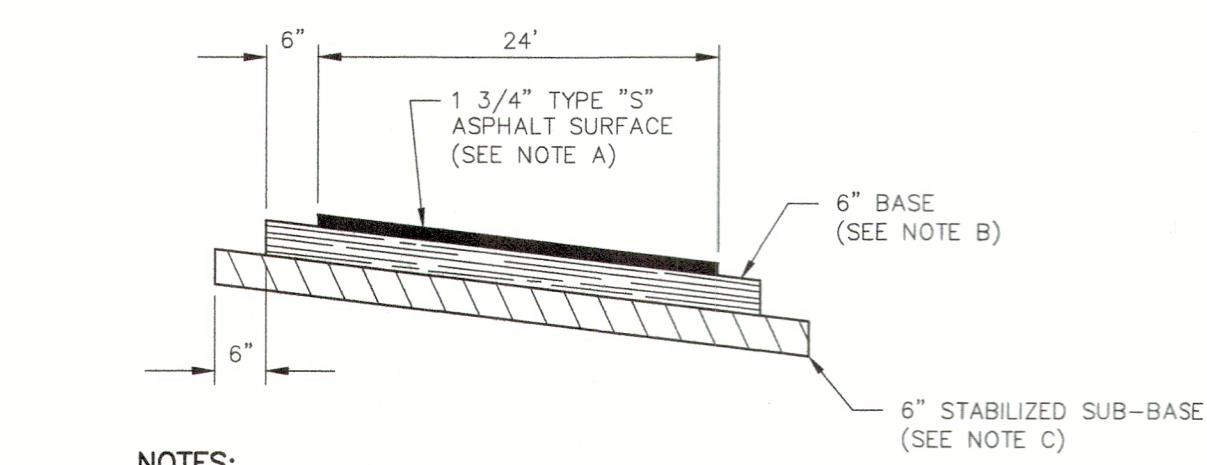


Section D-D
N.T.S.



Section E-E
N.T.S.

NOTES:
CONTRACTOR SHALL PROVIDE 6" TOP SOIL (SANDY LOAM) OVER ALL PERVIOUS SURFACES THROUGHOUT THE SITE.
CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL TESTING, FOR INFORMATION SHOWN ON THESE PLANS, AND AS RECOMMENDED IN THE GEOTECHNICAL REPORT

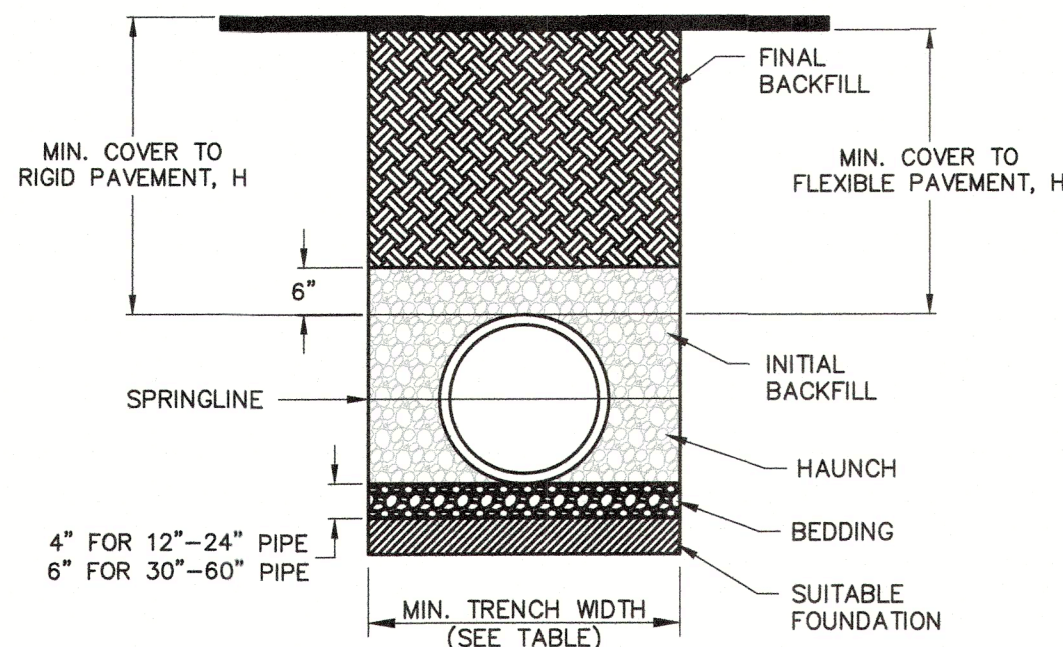


- NOTES:
- A. Asphaltic concrete surface course shall be laid in two lifts. The first lift shall be 1" Type S-I or S-III. The second lift shall be 3/4" Type S-III.
 - B. Base course shall consist of 6" limerock compacted to 98% modified proctor density or 6" Cement Treated Caloosahatchee shell compacted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

Pavement Detail
N.T.S.

Source: SDE

Submitted For:



RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIA.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12"-48"	12"	48"
54"-60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**	
	UP TO 24"	24"
30"-36"	36"	
42"-60"	48"	

** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE

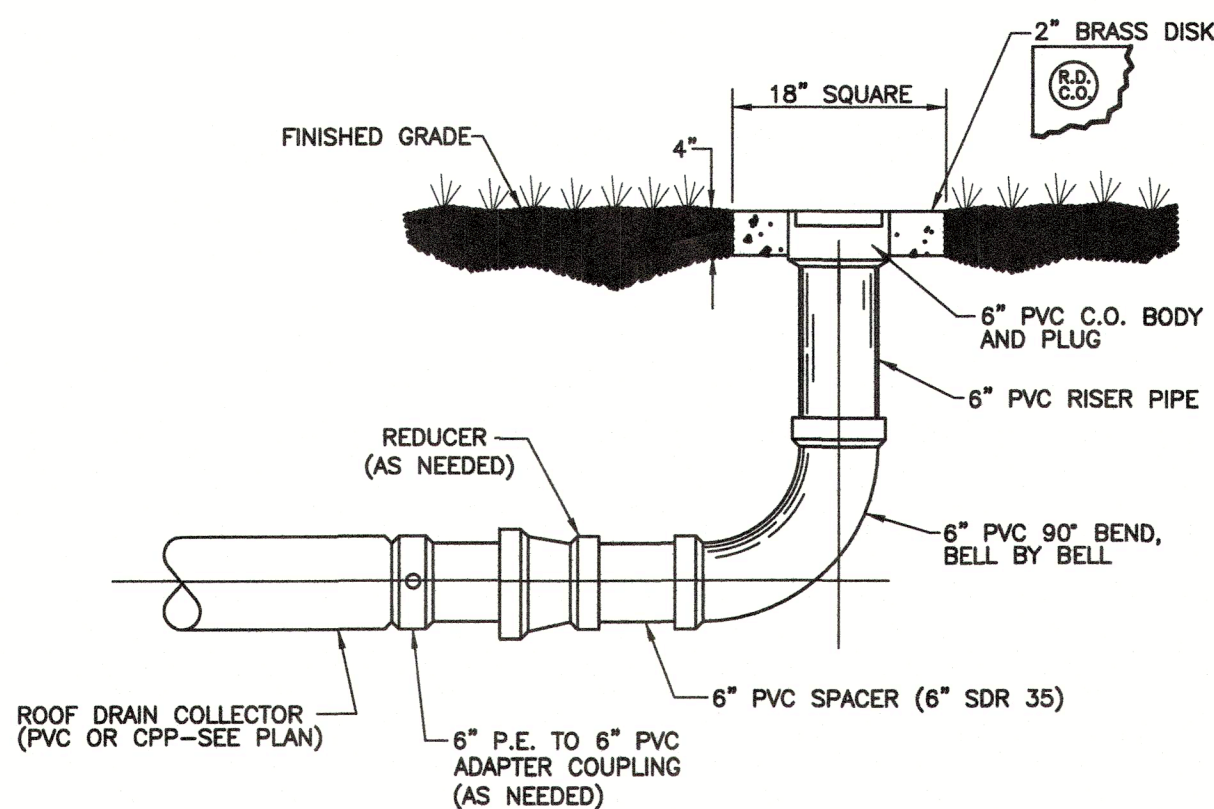
*** E-60 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2308 PIPE.

NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24"; 6" FOR 30"-60".
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

PVC Trench Detail

N.T.S.



Roof Drain Clean-Out

N.T.S.

UNDERDRAIN

1. CORRUGATED POLYETHYLENE TUBING

CORRUGATED POLYETHYLENE TUBING WITH A FILTER FABRIC WRAP, UNLESS OTHERWISE NOTED, MAY BE USED FOR UNDERDRAIN APPLICATIONS ASSOCIATED WITH ROADWAY CONSTRUCTION PROVIDING THE FOLLOWING SPECIFICATIONS ARE MET:

- THE CORRUGATED POLYETHYLENE TUBING SHALL MEET THE REQUIREMENTS OF ASTM F-405.
- THE CORRUGATED POLYETHYLENE TUBING SHALL HAVE A FILTER FABRIC SOCK MEETING F.D.O.T. SPEC. 948-3, LATEST REVISION. IF PERFORATIONS IN PIPE ARE LESS THAN 3/4", THEN FILTER FABRIC SOCK MAY BE OMITTED.
- THE ENVELOPE MATERIAL SURROUNDING THE TUBING SHALL BE CRUSHED STONE OR WASHED SHELL. THE THICKNESS OF THE ENVELOPE MATERIAL SHALL BE EQUAL TO OR GREATER THAN THE DIAMETER OF THE TUBING, PLUS 12".
- CORRUGATED POLYETHYLENE TUBING SHALL NOT BE ACCEPTABLE UNDER ROADWAYS.
- EXTRA CARE SHALL BE TAKEN DURING PLACEMENT TO MAINTAIN PROPER LINE AND GRADE, TO BE PLACED W/ SLOPE OF ROAD.
- A CLEAN-OUT SHALL BE CONSTRUCTED AT THE END OF EACH RUN OF UNDER-DRAIN. MAXIMUM SPACING EVERY 100 FEET.
- SOD 3' AROUND 18" CONC. SQUARE.

*NOTE: TRANSPORTATION DIRECTOR OR HIS DESIGNEE'S APPROVAL IS REQUIRED FOR THE USE OF FLEXIBLE UNDERDRAIN PIPE.

Underdrain General Notes

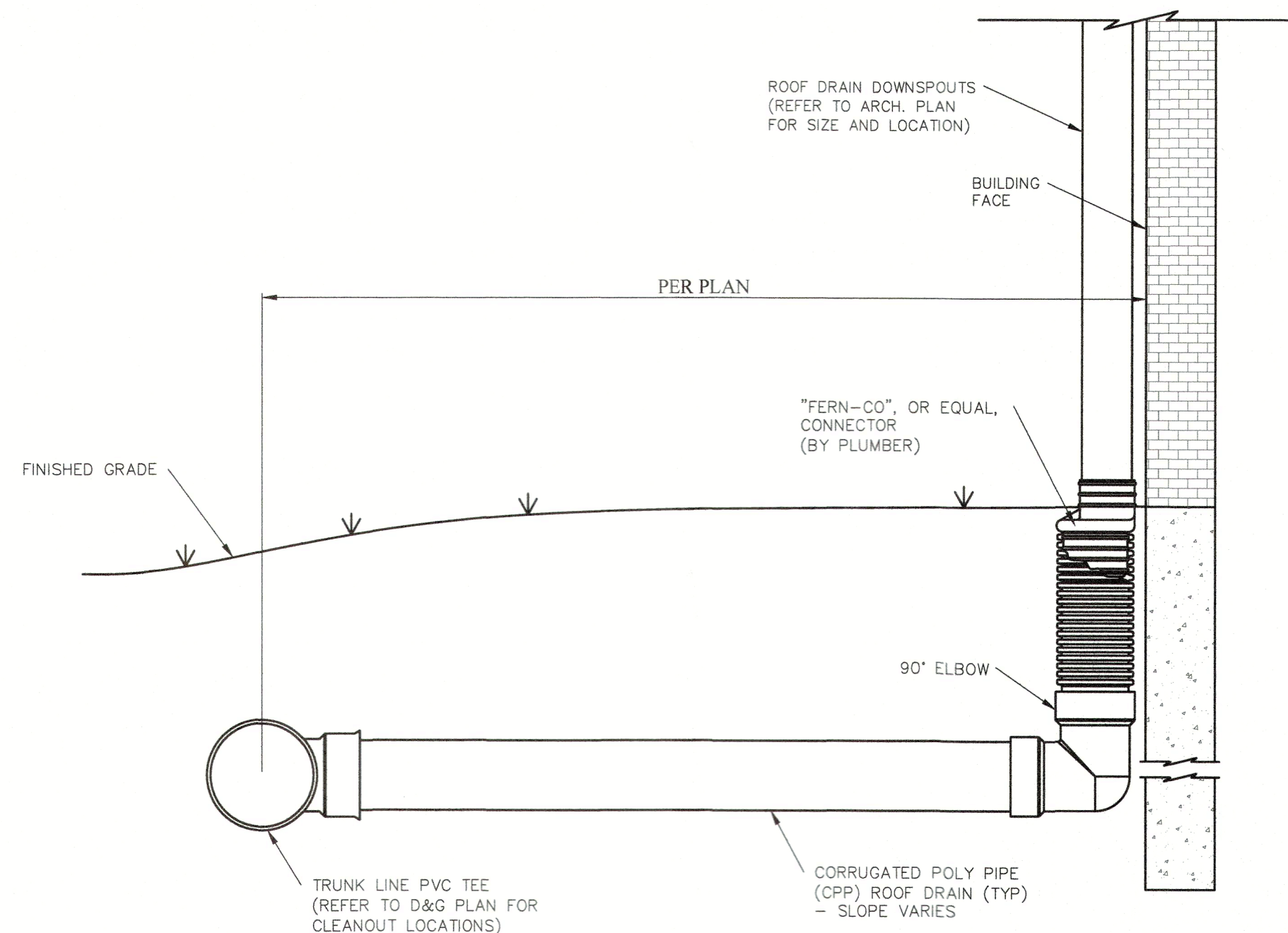
N.T.S.

HDPE STORM SEWER PIPE GENERAL NOTES

- HDPE SHALL MEET CURRENT F.D.O.T. STANDARD SPECIFICATIONS.
- MINIMUM COVER - 9" (TOP OF PIPE TO BOTTOM OF RIDGED PAVEMENT OF DRIVEWAY) - 15" (TOP OF PIPE TO BOTTOM OF FLEXIBLE BASE OF DRIVEWAY)
- SIZES ARE LIMITED TO CURRENT F.D.O.T. STANDARD SPECIFICATIONS.
- HDPE PIPE IS NOT ALLOWED UNDER ROADWAY.

Storm Sewer Pipe General Notes

N.T.S.



Roof Drain Lateral Detail

N.T.S.

SDE

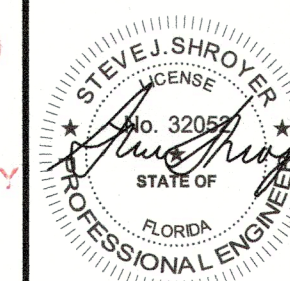
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Drainage Details

For
Brista Homes

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

FSP-12



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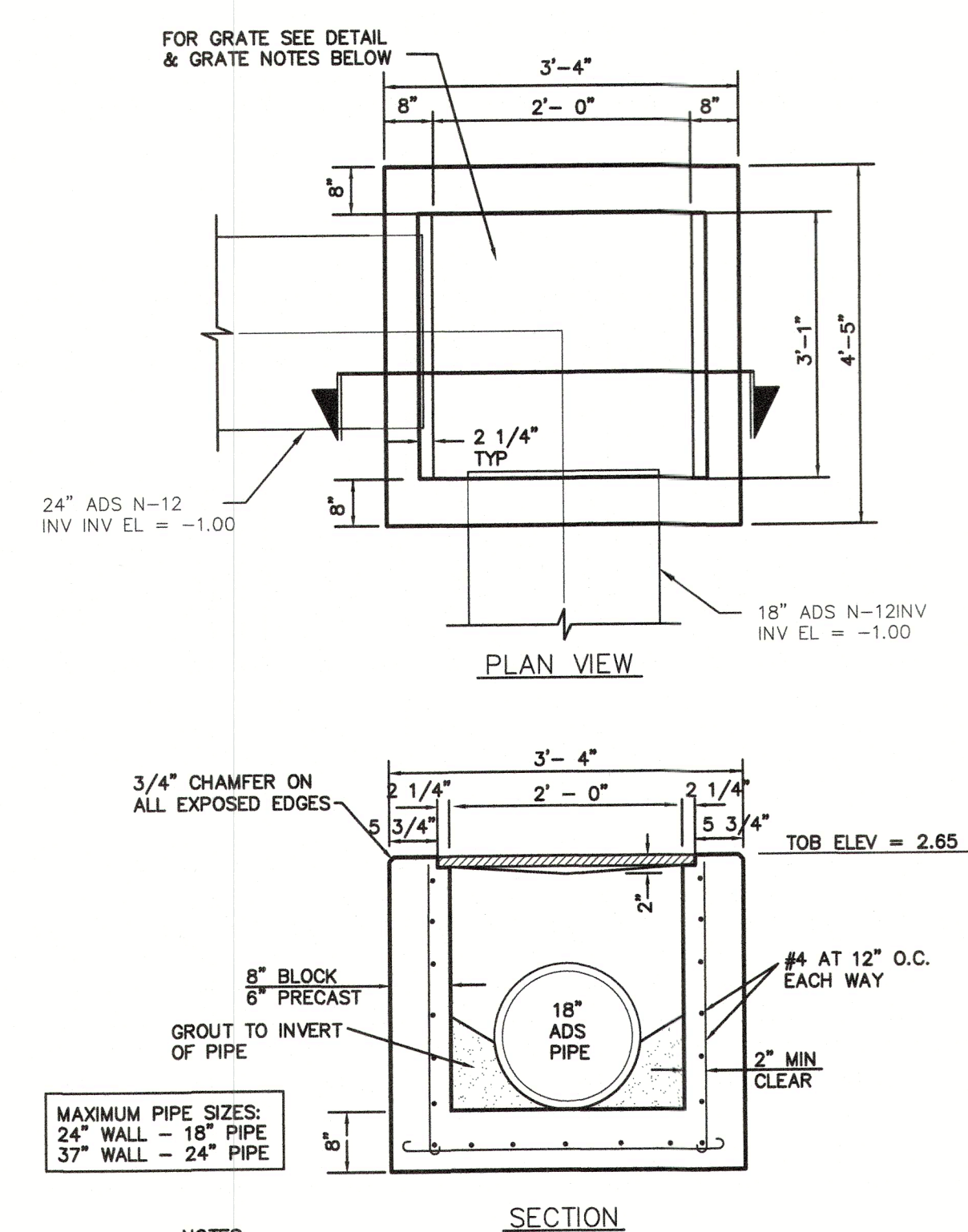
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Drawing Scale: 1" = 30' Drawing Date: 1/20/22

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

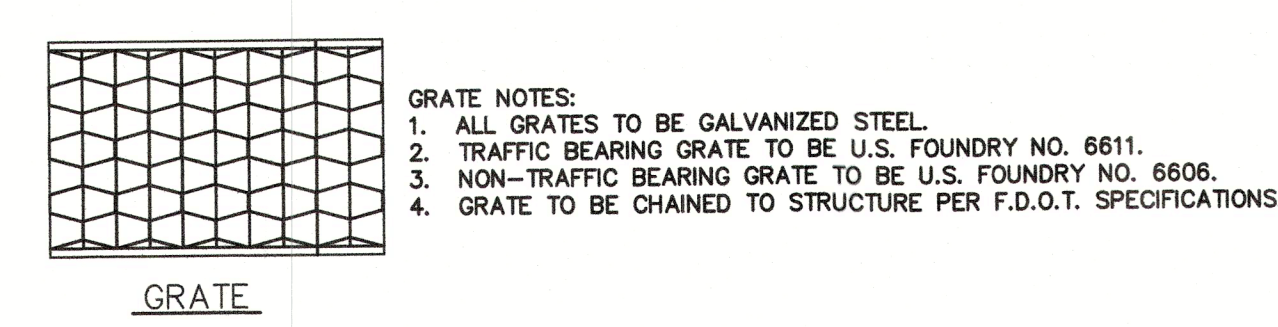
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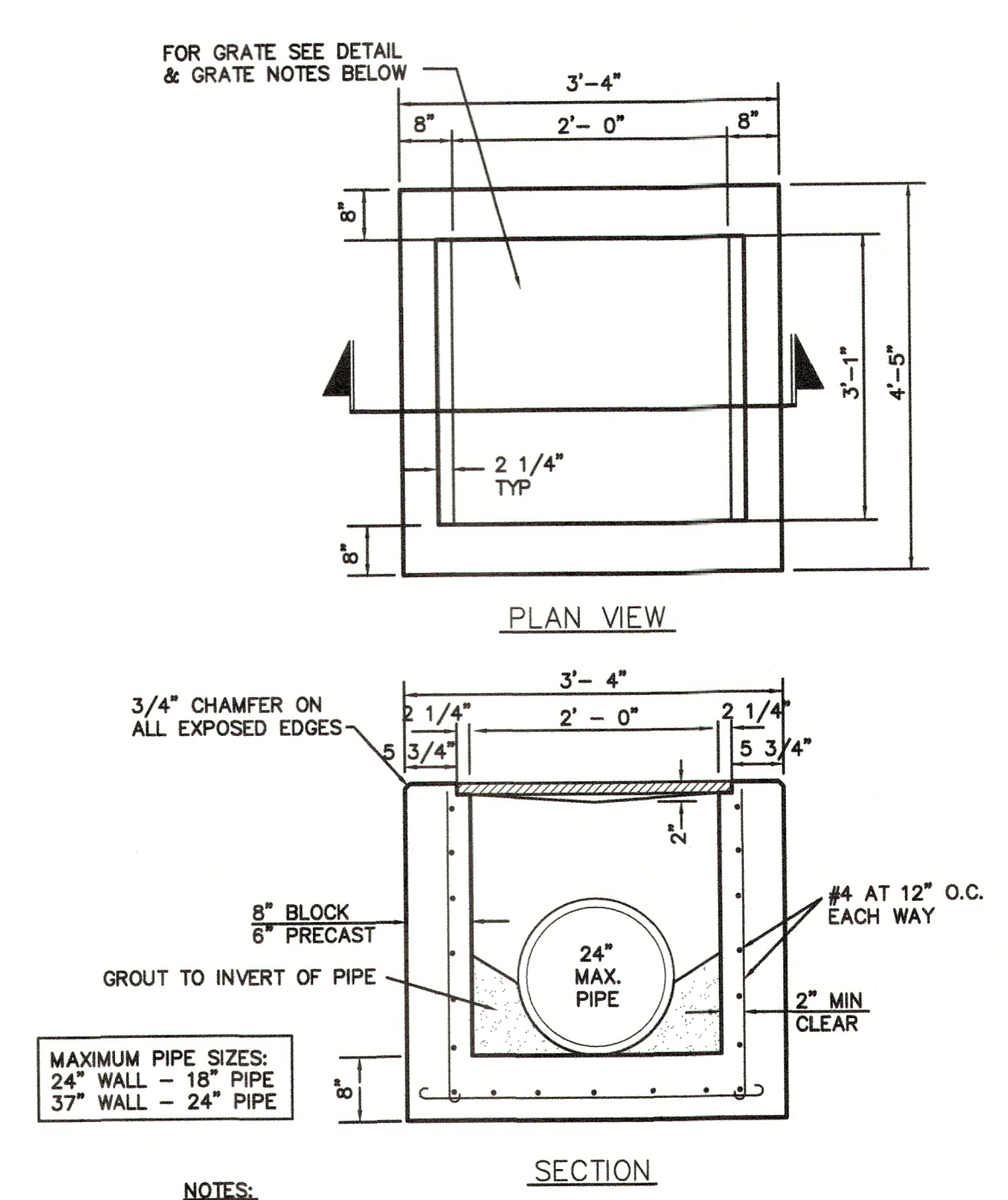
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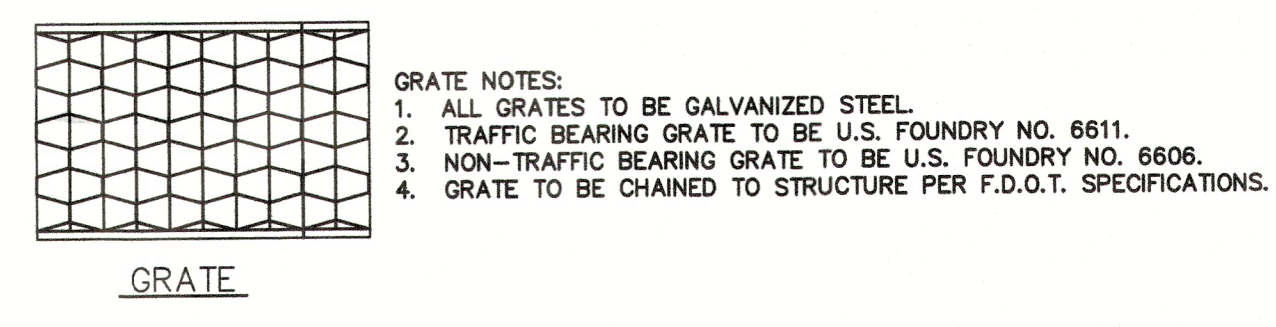
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1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. SHOULD ANY VARIANCE OF THIS DETAIL BE NECESSARY.
 2. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL OUTFALL CONTROL STRUCTURES.



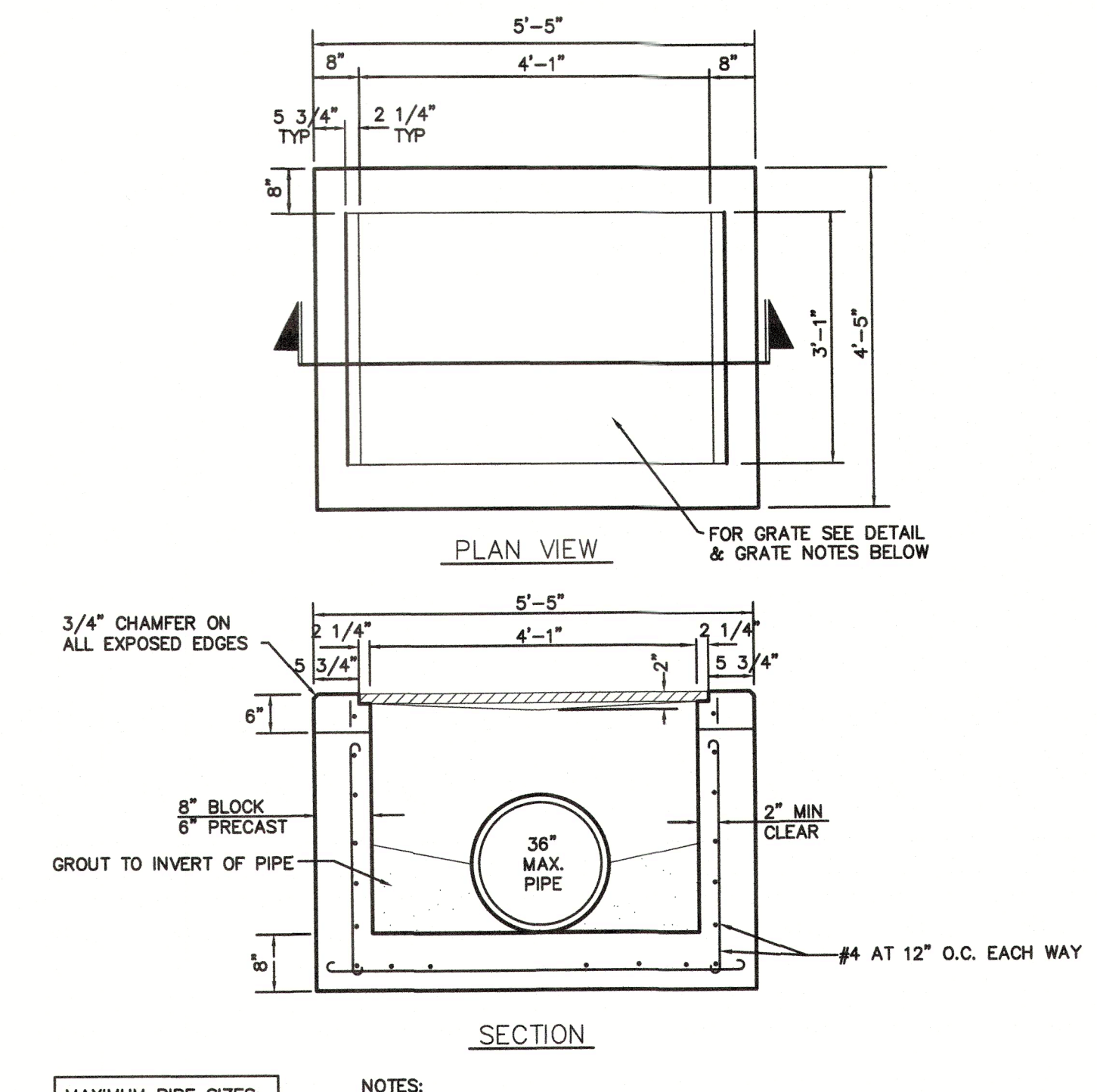
Control Structure Detail (CS#1)
N.T.S.



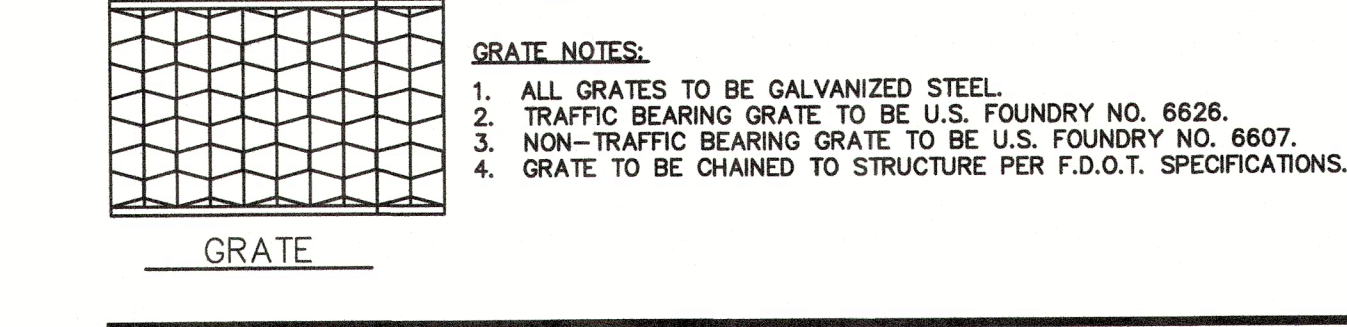
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 2. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL OUTFALL CONTROL STRUCTURES.



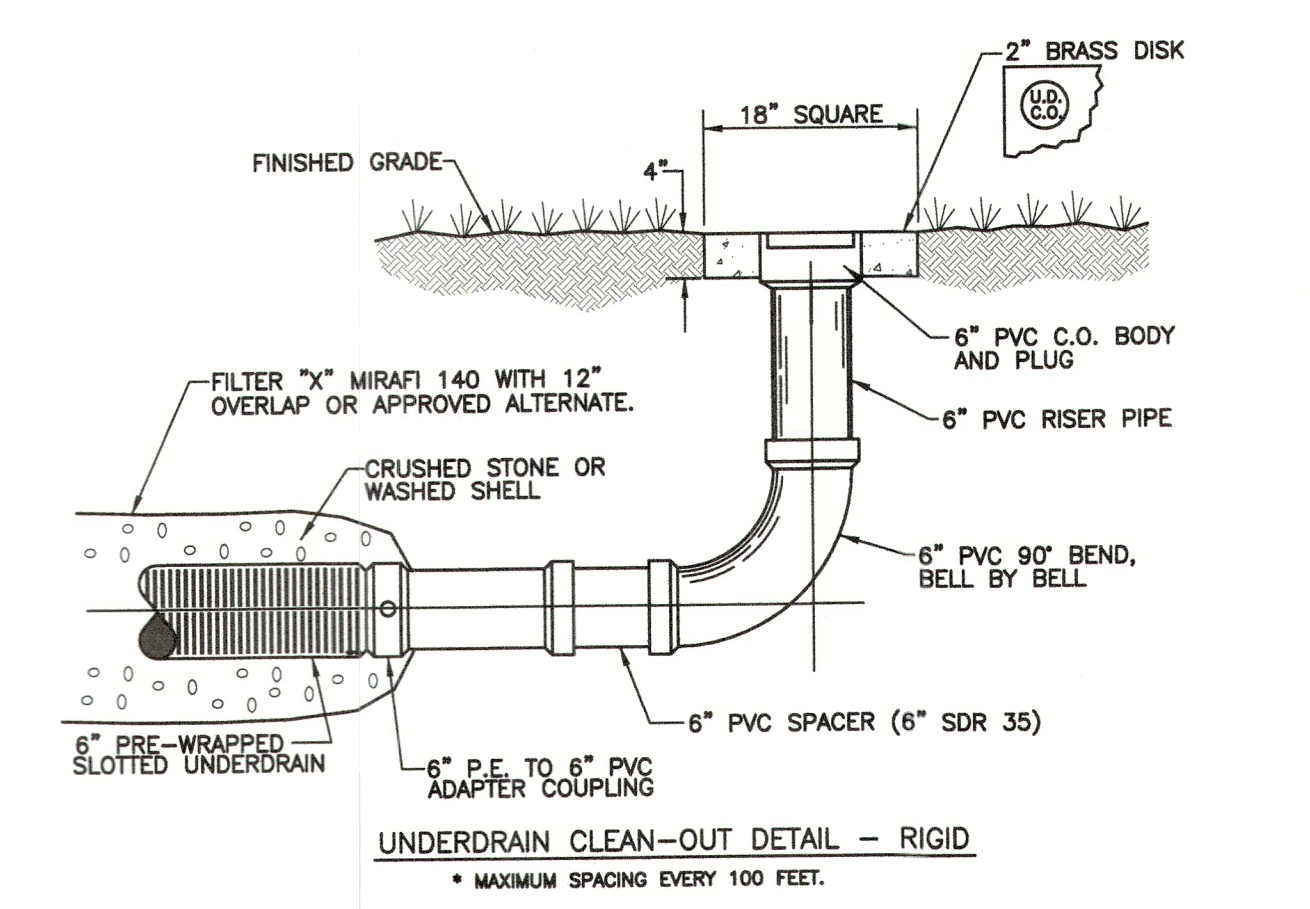
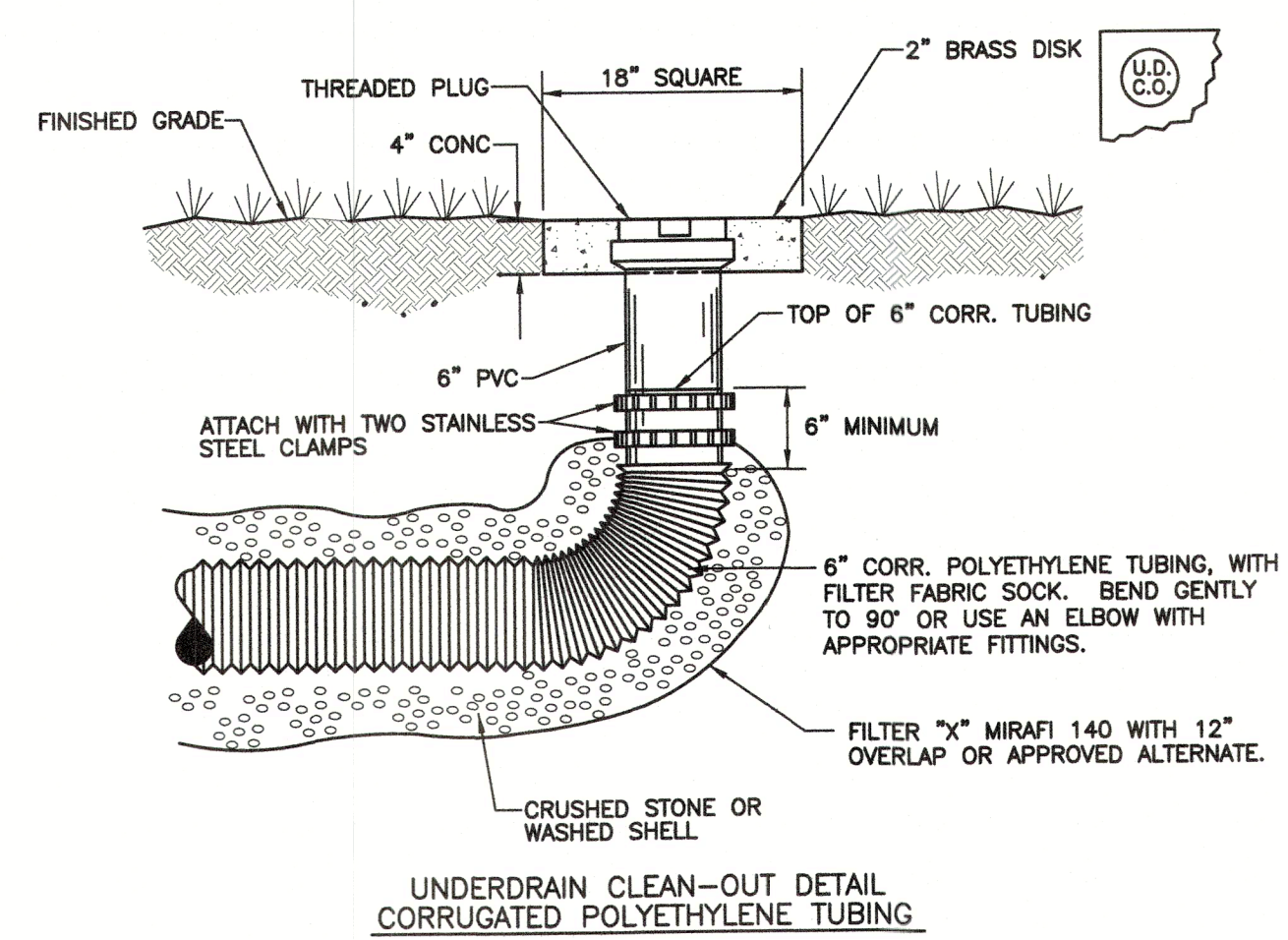
Type "C" Inlet Detail
N.T.S.



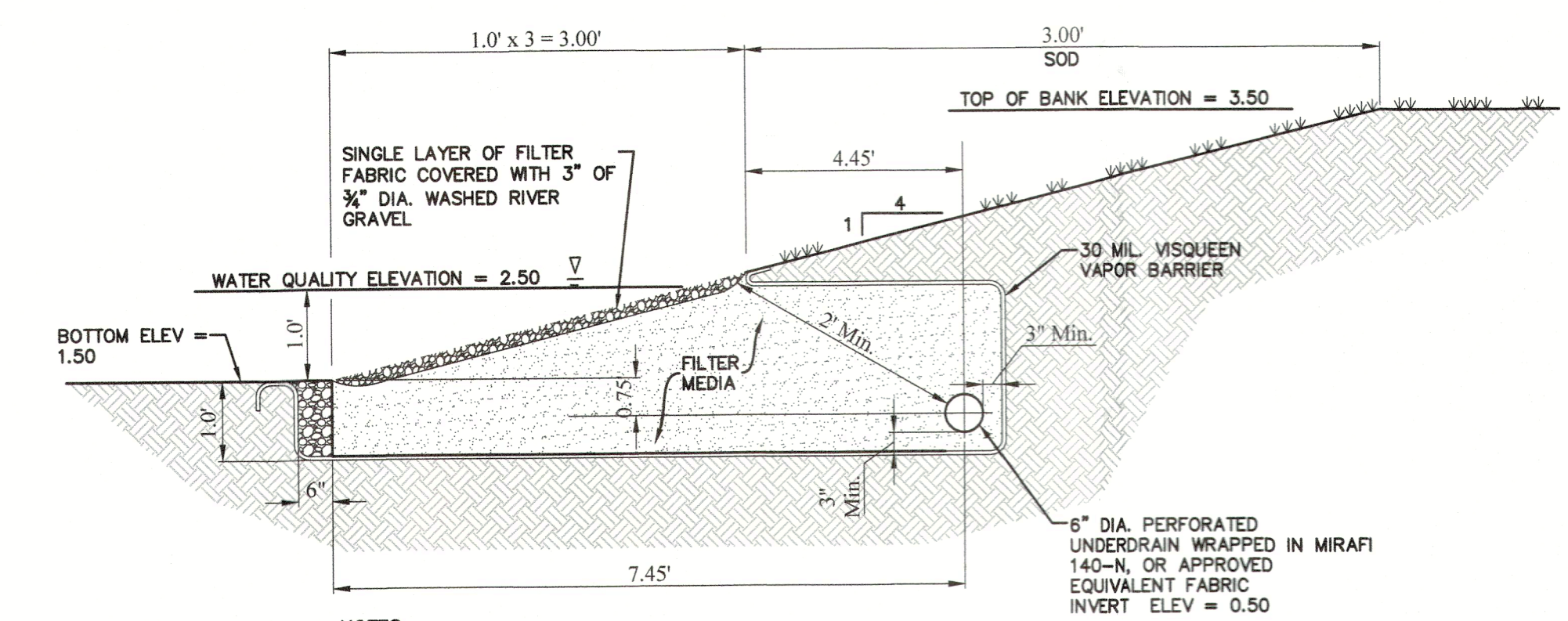
- NOTES:
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 2. BENCH MARKS WITH THE ELEVATIONS CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL OUTFALL CONTROL STRUCTURES.



Type "D" Inlet Detail
N.T.S.



Underdrain Clean-Outs (Flexible & Rigid)
N.T.S.



- NOTES:
1. CONTRACTOR TO ENSURE VISQUEEN SEAMS ARE INSTALLED, PER MANUFACTURER'S SPECIFICATIONS, IN ORDER TO MAINTAIN A WATER TIGHT BARRIER.
 2. 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.

Submitted For:

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

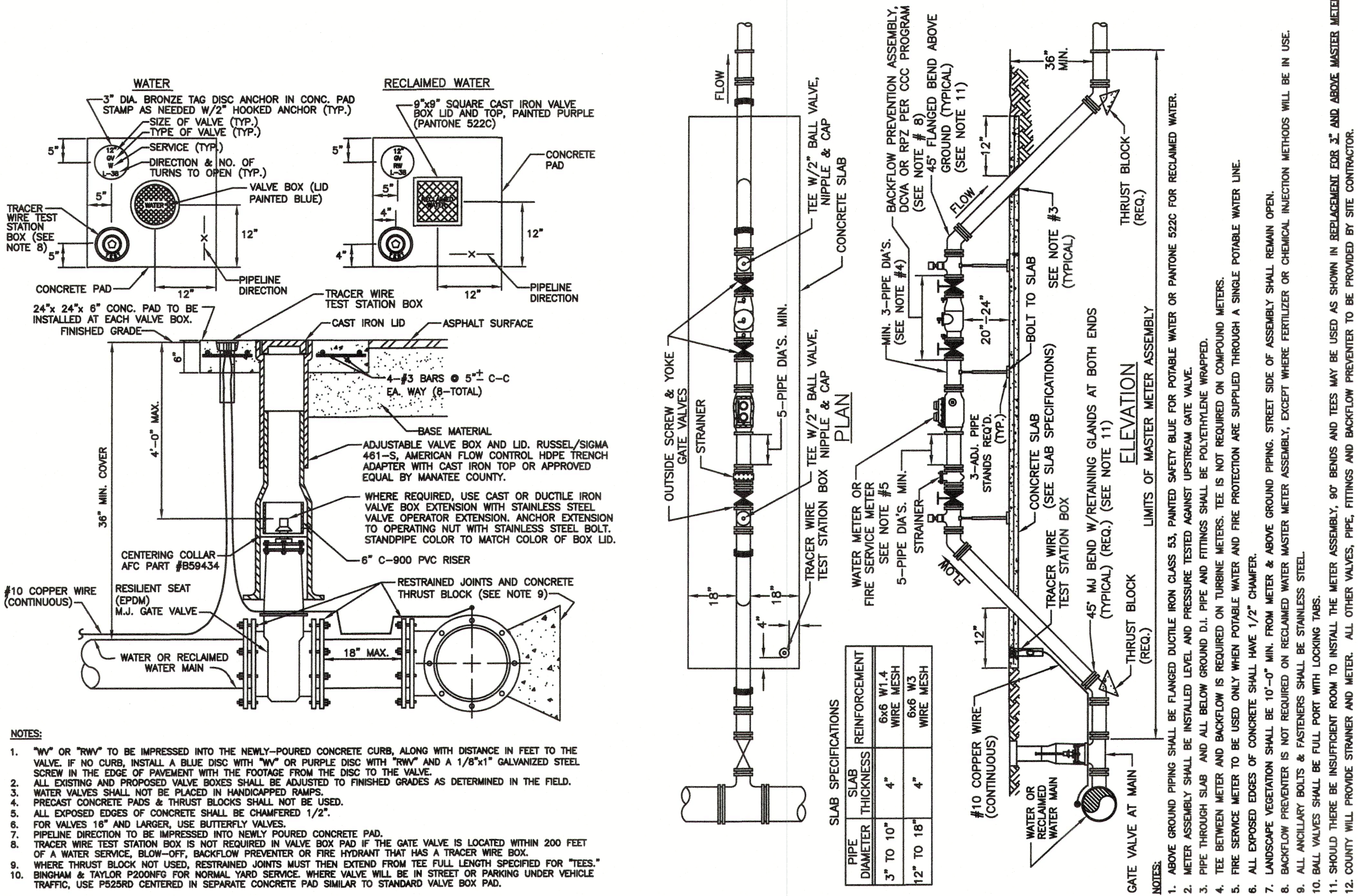
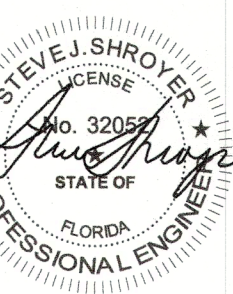
Water Details
For
Brista Homes

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

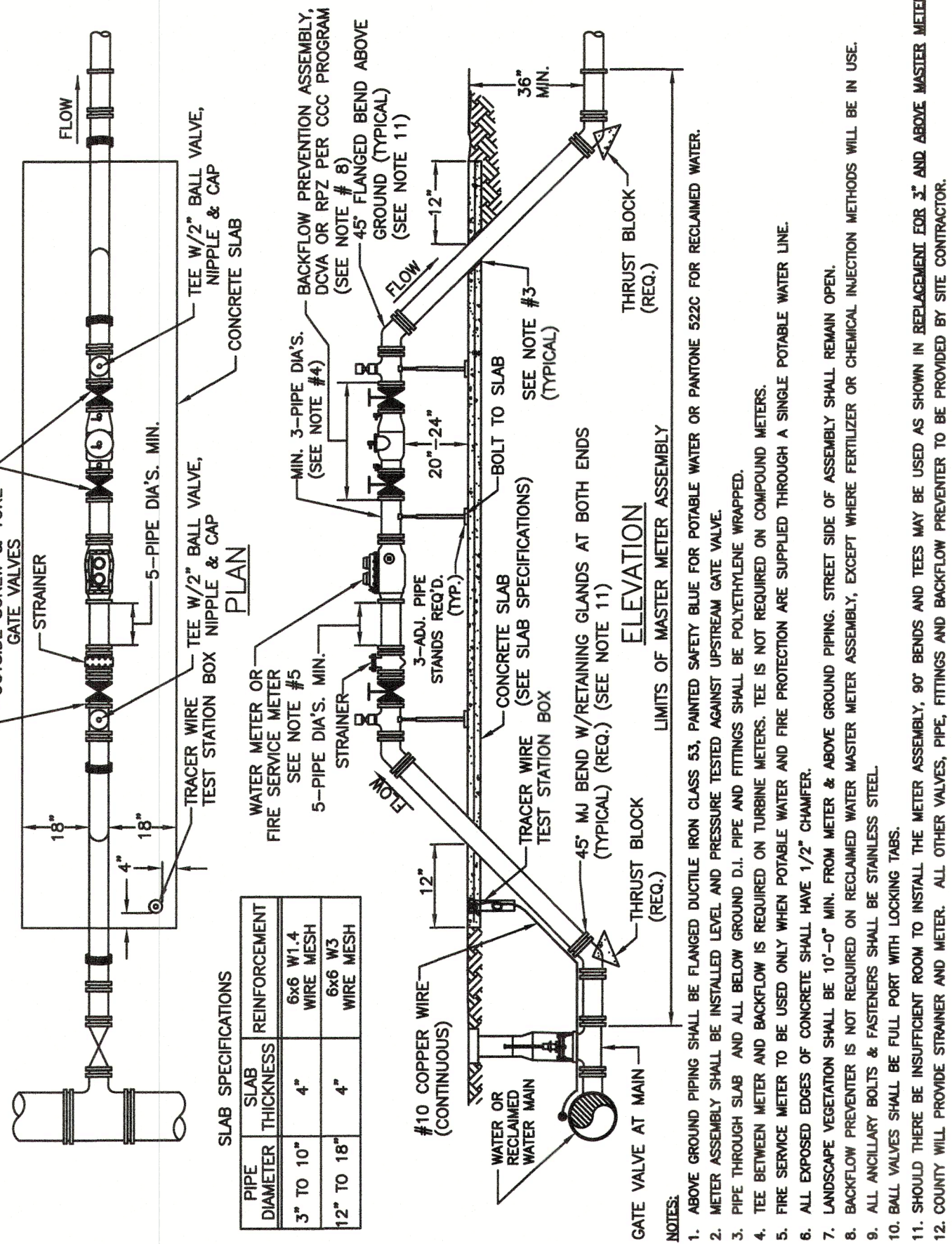
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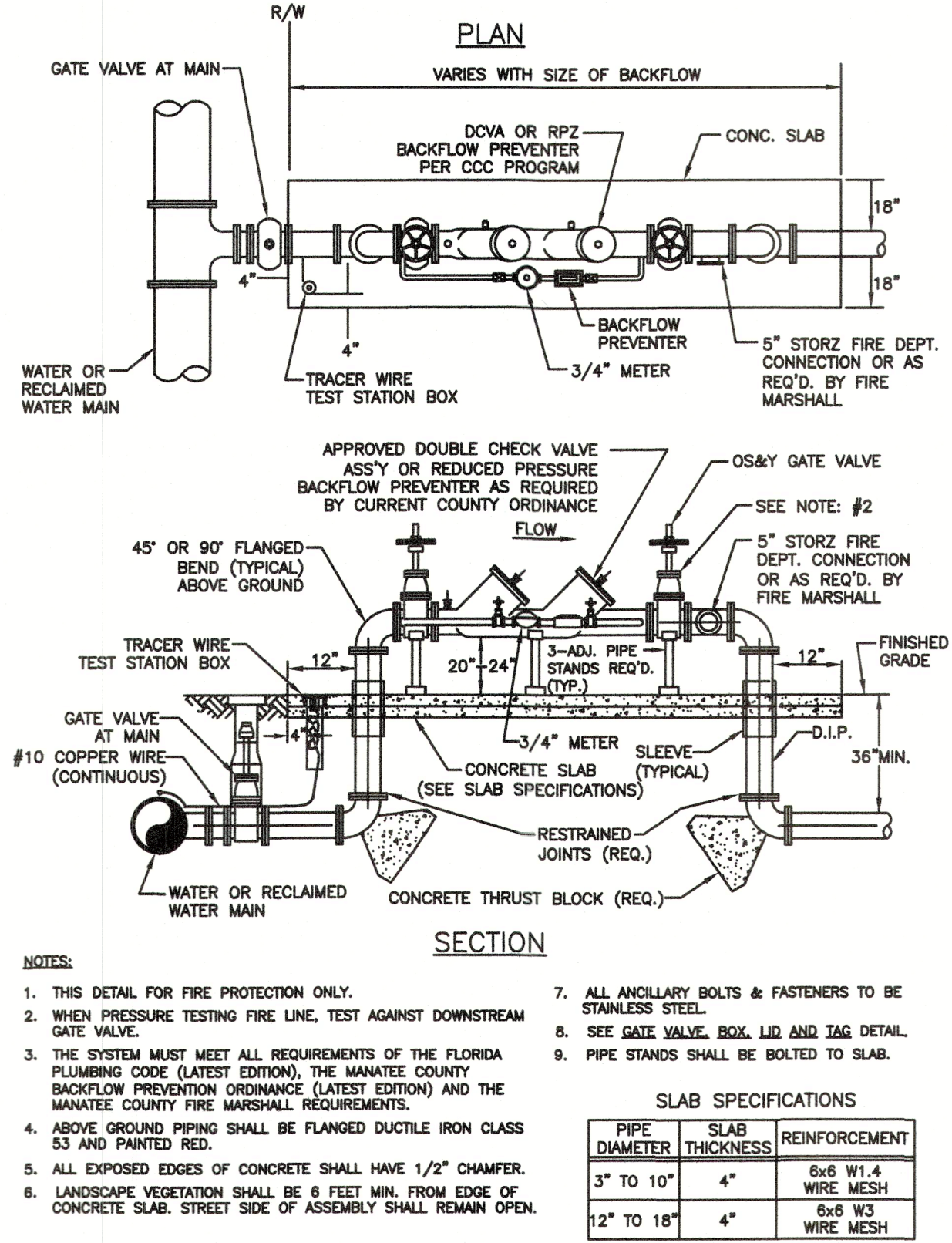
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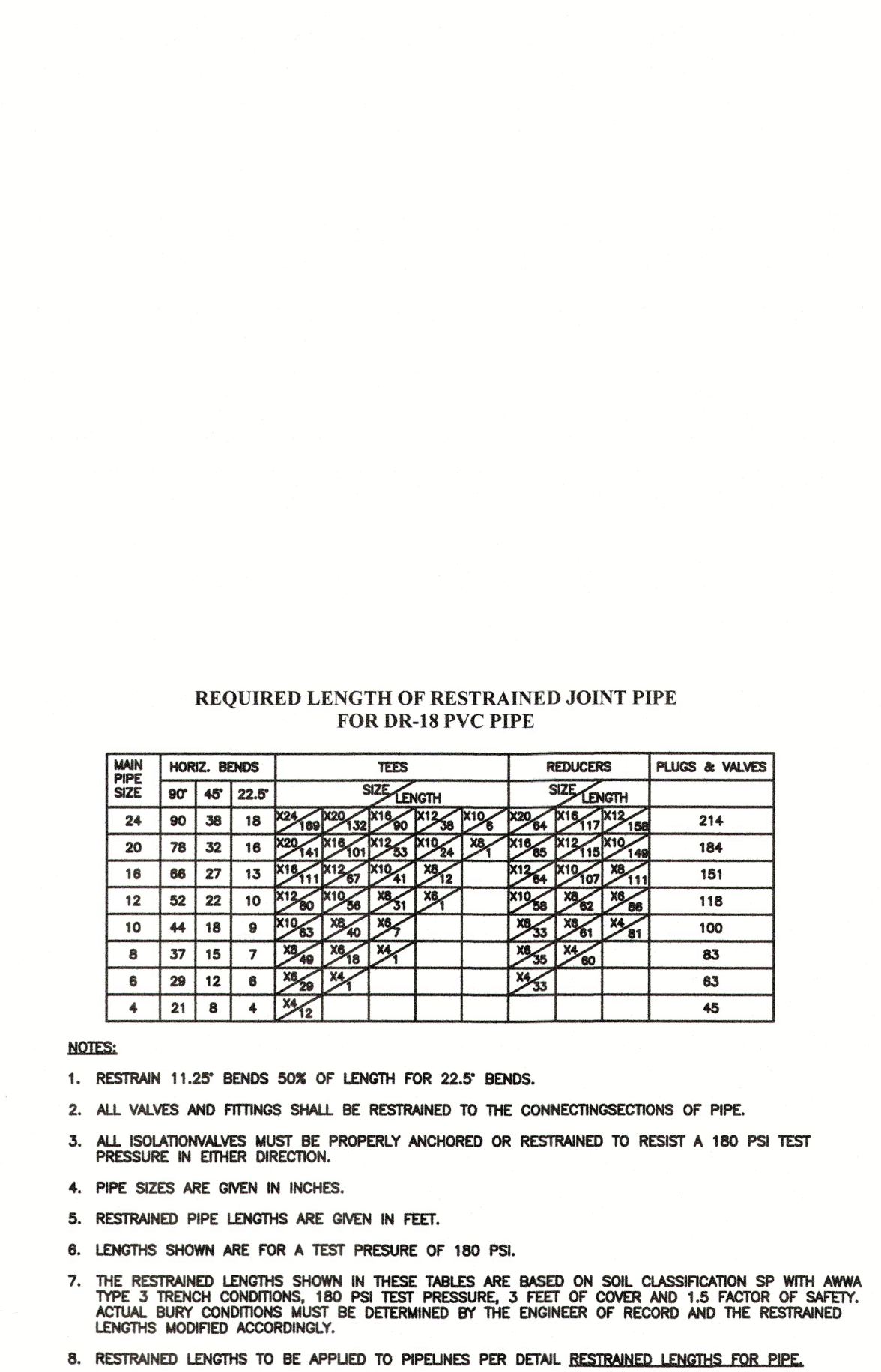
Gate Valve, Box, Lid and Tag
N.T.S.



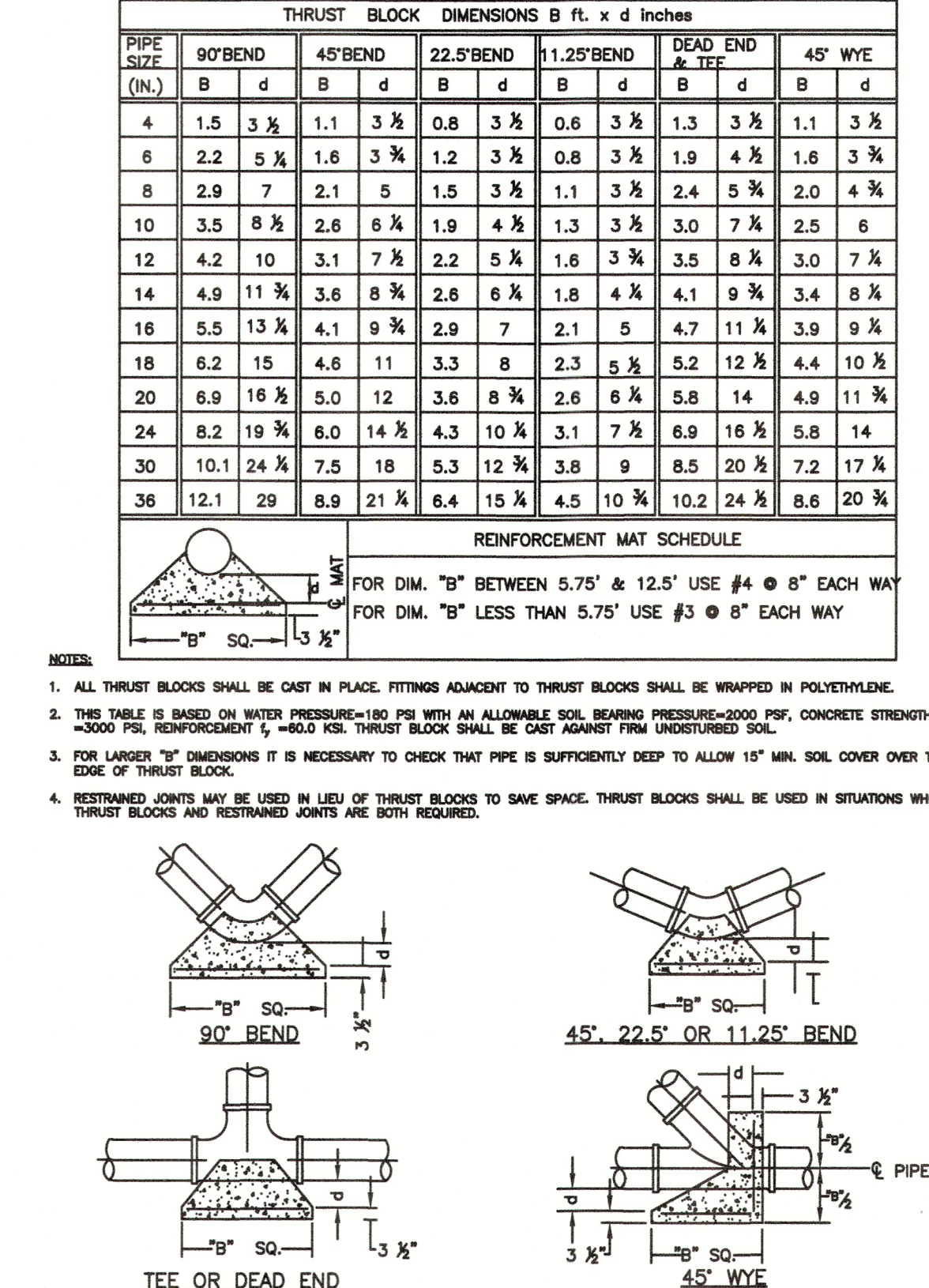
3" And Above Master Meter
N.T.S.



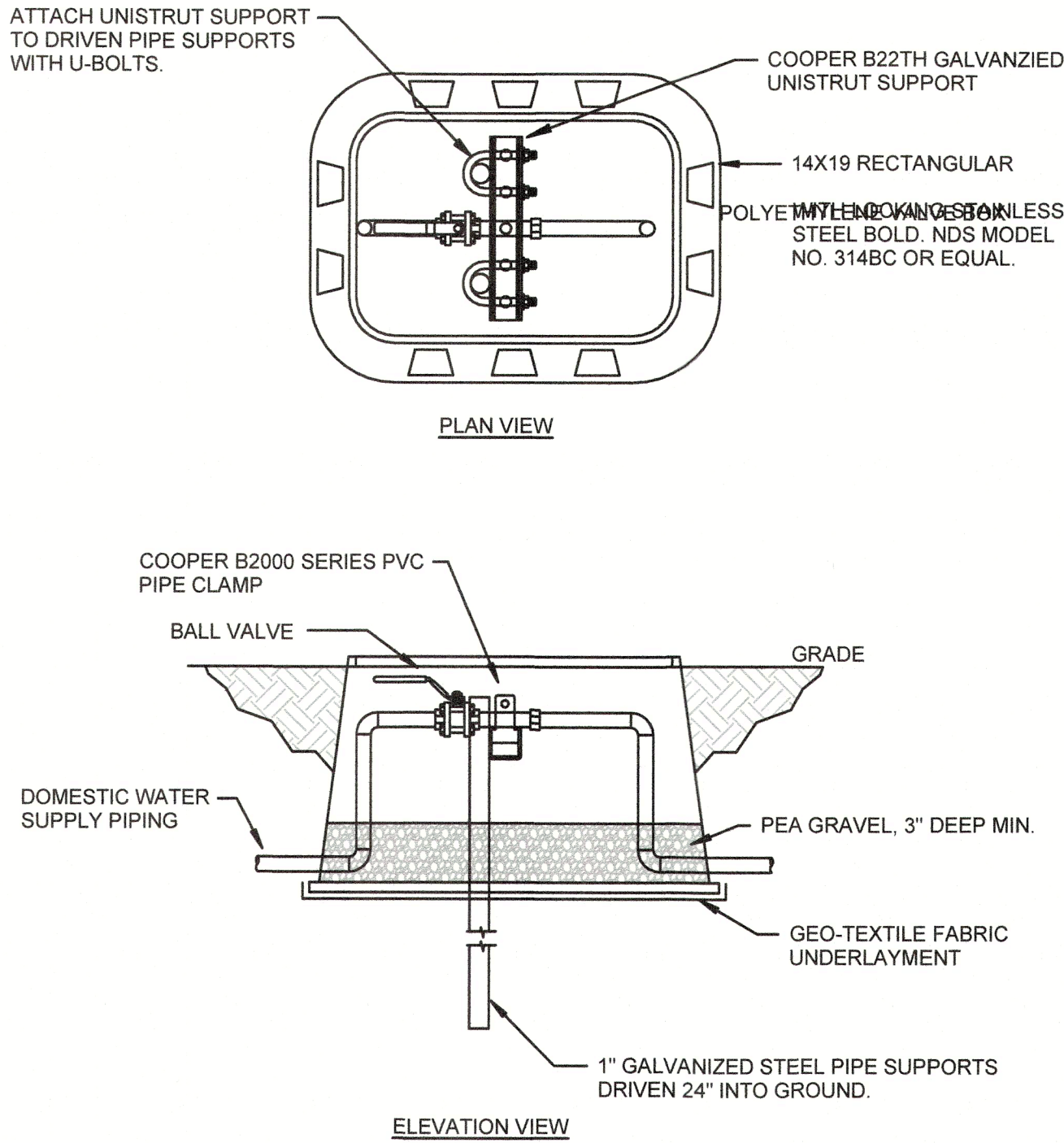
3" And Above Fire Line Backflow Preventer
N.T.S.



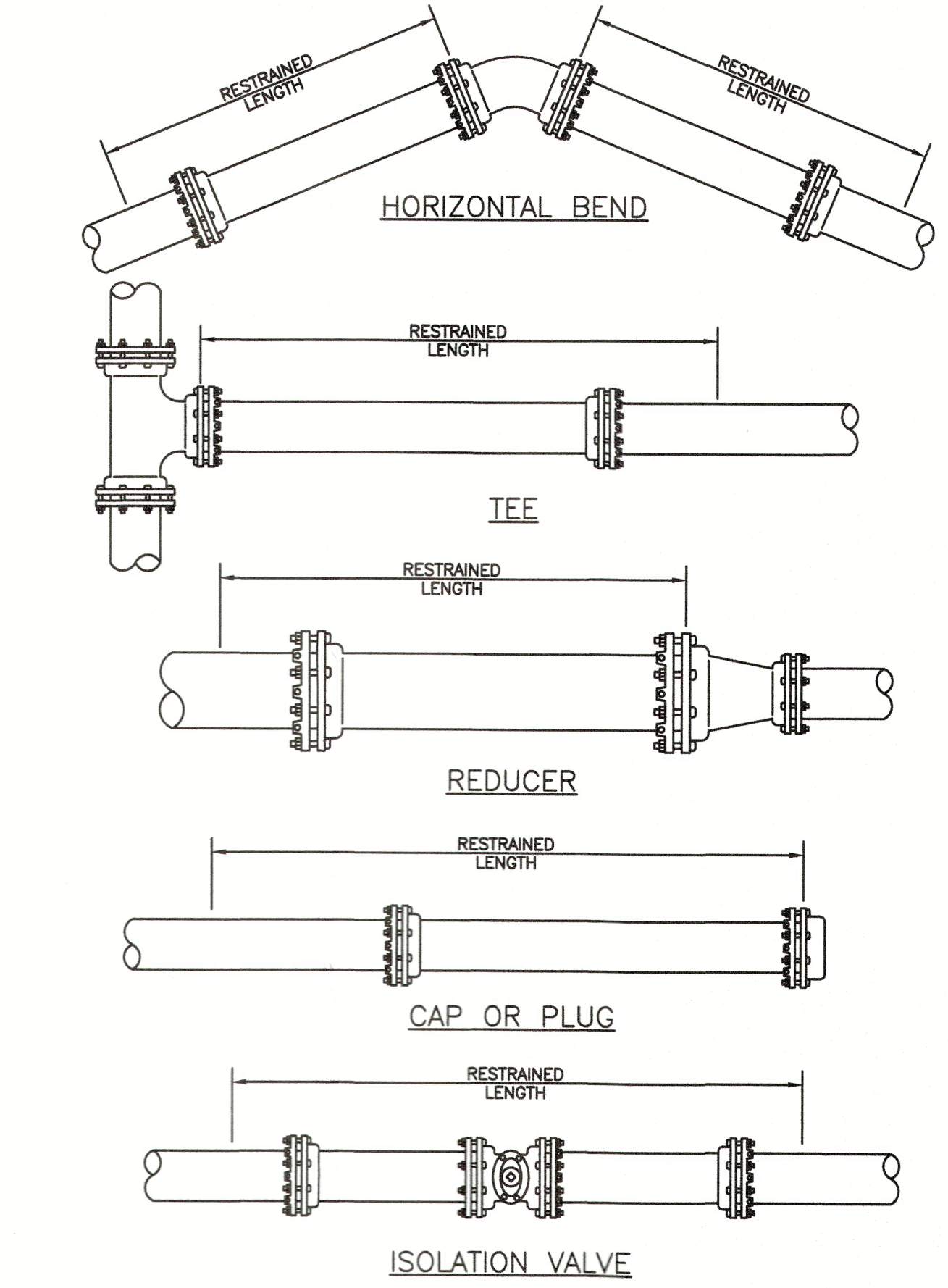
Restrained Lengths For PVC Pipe
N.T.S.



Concrete Thrust Blocks
N.T.S.

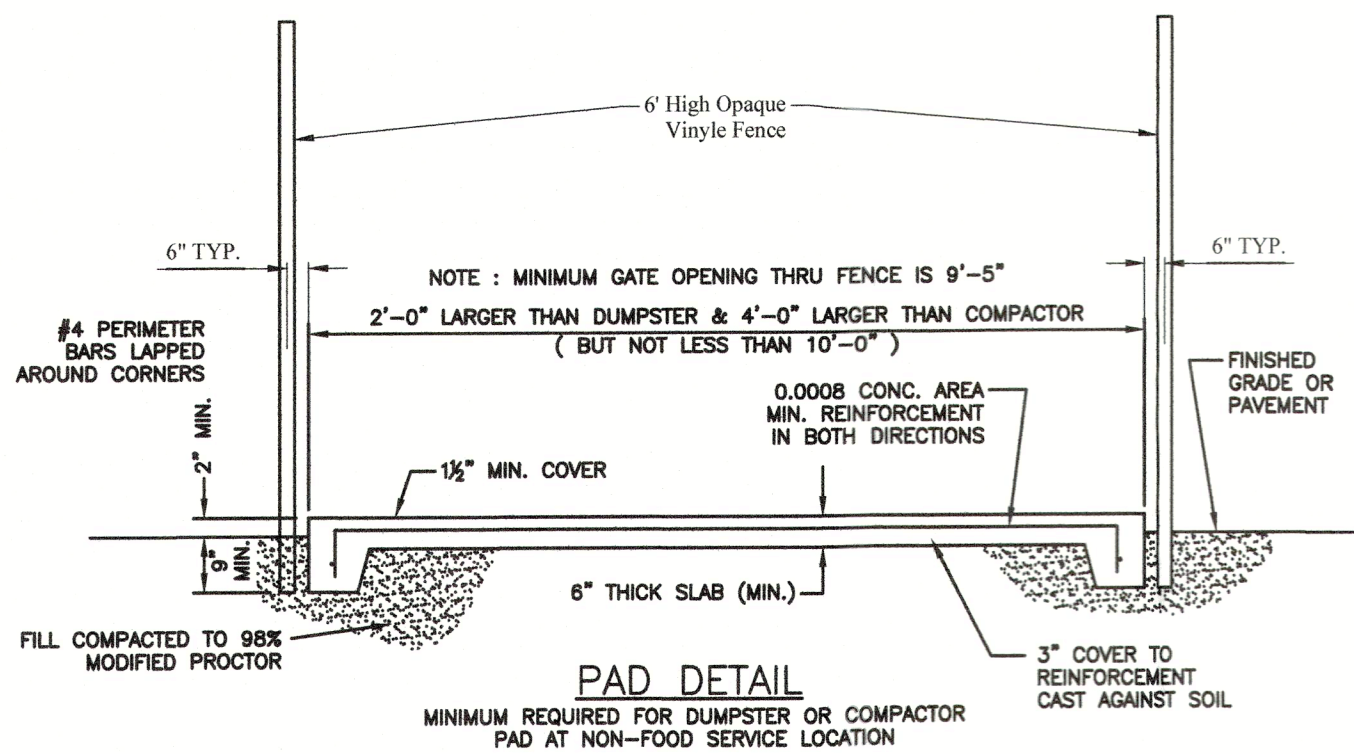


Water Service Shut-Off Valve @ Bldg.
N.T.S.



Restained Lengths For Pipe
N.T.S.

F:\PROJECTS\26300 GMD & Bottomwood Dr Property\CAUD\Plan Set\15 26300 SANITARY DETAILS.dwg April 06, 2022 - 6:04pm



NOTES:

- DUMPSTER PAD SHALL BE CLASS I CONCRETE W/ MIN. COMP. STRENGTH $f'c = 3000$ P.S.I. & MIN. REINFORCEMENT STRENGTH $f_y = 60,000$ P.S.I.
- DUMPSTER PAD SHALL BE FENCED IN ACCORDANCE WITH THE TOWN OF LONGBOAT KEY LAND DEVELOPMENT CODE.

Dumpster Detail

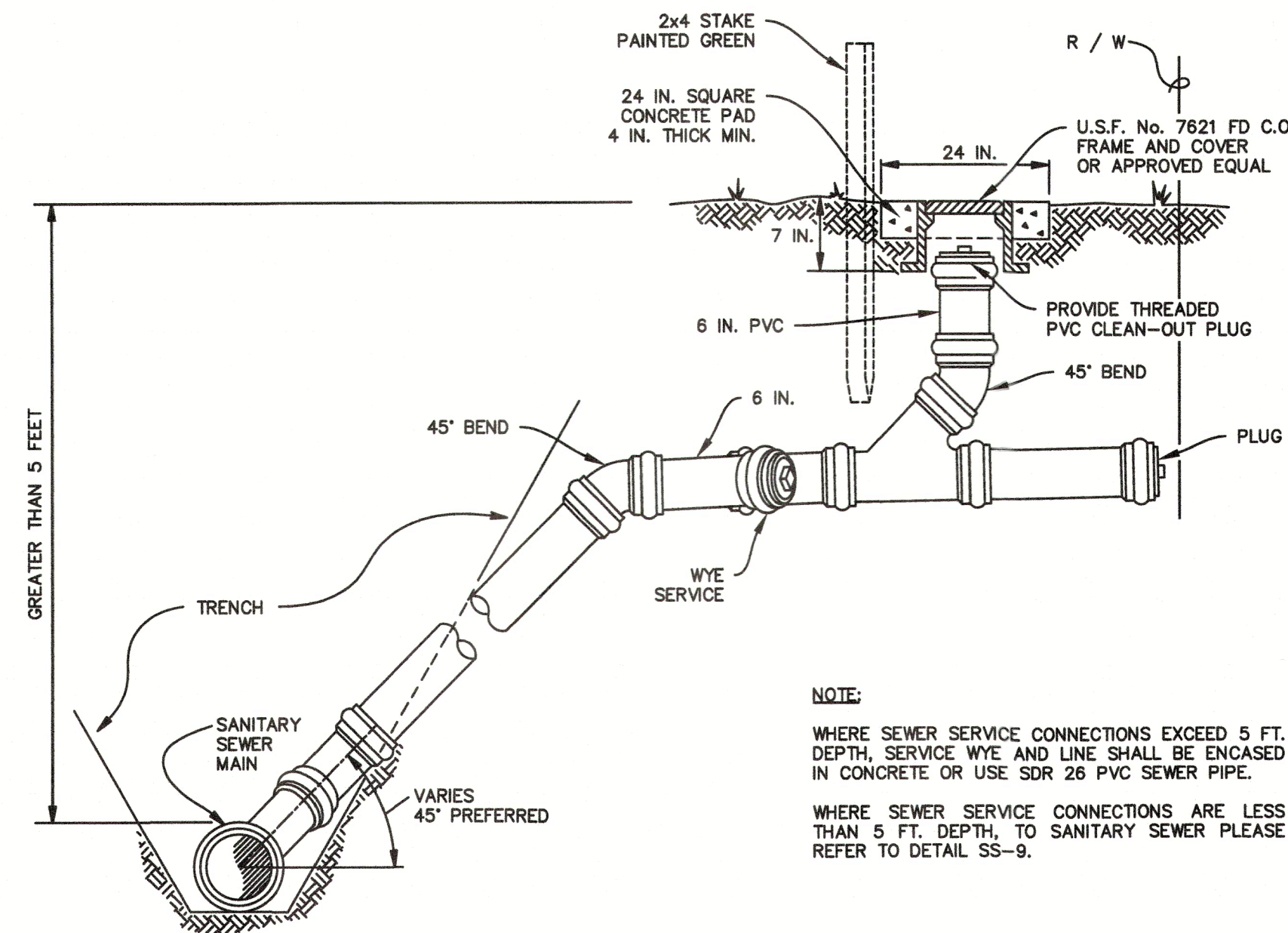
N.T.S.

- WHERE SANITARY SEWER CROSSES WITHIN 18" VERTICALLY OF A POTABLE WATERMAIN, RECLAIMED WATERMAIN OR STORM DRAIN, THE SEWER MAINS AND/OR WATERMAINS SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE. WHEN A SANITARY SEWER MAIN PARALLELS A RECLAIMED WATERMAIN, A MINIMUM OF 5 FEET HORIZONTAL SEPARATION (CENTER TO CENTER) AND 3 FEET (OUTSIDE TO OUTSIDE) IS REQUIRED.
- MANHOLES SHALL BE CONSTRUCTED COATED AND INSTALLED ACCORDANCE WITH MANATEE COUNTY SPECIFICATIONS
- ALL P.V.C. PIPING SHALL BE COLOR CODED (METHOD ESTABLISHED BY M.C.P.W.D. DIRECTIVE) IN THE FOLLOWING COLORS:
- ALL CLEAN OUT COVERS SHALL BE MARKED "S" FOR SEWER. ALL I.P.S. PLUGS FOR C.O. SHALL BE RAISED NUT SOLID PLUGS.
- P.V.C. PIPE (GRAVITY SEWER) FITTINGS AND JOINTS SHALL MEET A.S.T.M. STANDARDS, POLYVINYL CHLORIDE (PVC) GRAVITY SEWER PIPE AND FITTINGS, 4" TO 15" INCHES IN DIAMETER, SHALL BE SDR 26, MEETING THE REQUIREMENTS OF ASTM D 3034. JOINING OF PIPE SECTIONS AND FITTINGS SHALL BE BY WATER-TIGHT PUSH-ON JOINTS USING ELASTOMERIC GASKETS IN ACCORDANCE WITH ASTM D 3212 & COLOR CODED (METHOD ESTABLISHED BY M.C.P.W.D. DIRECTIVE) IN THE COLOR GREEN. ALL PIPE MUST BE MARKED WITH APPLICABLE STANDARDS AND SO CERTIFIED.

Sanitary Sewer Notes

N.T.S.

Source: SDE



NOTE:

WHERE SEWER SERVICE CONNECTIONS EXCEED 5 FT. DEPTH, SERVICE WYE AND LINE SHALL BE ENCASED IN CONCRETE OR USE SDR 26 PVC SEWER PIPE.

WHERE SEWER SERVICE CONNECTIONS ARE LESS THAN 5 FT. DEPTH, TO SANITARY SEWER PLEASE REFER TO DETAIL SS-9.

Sanitary Sewer Deep Service Line Clean-out Installation

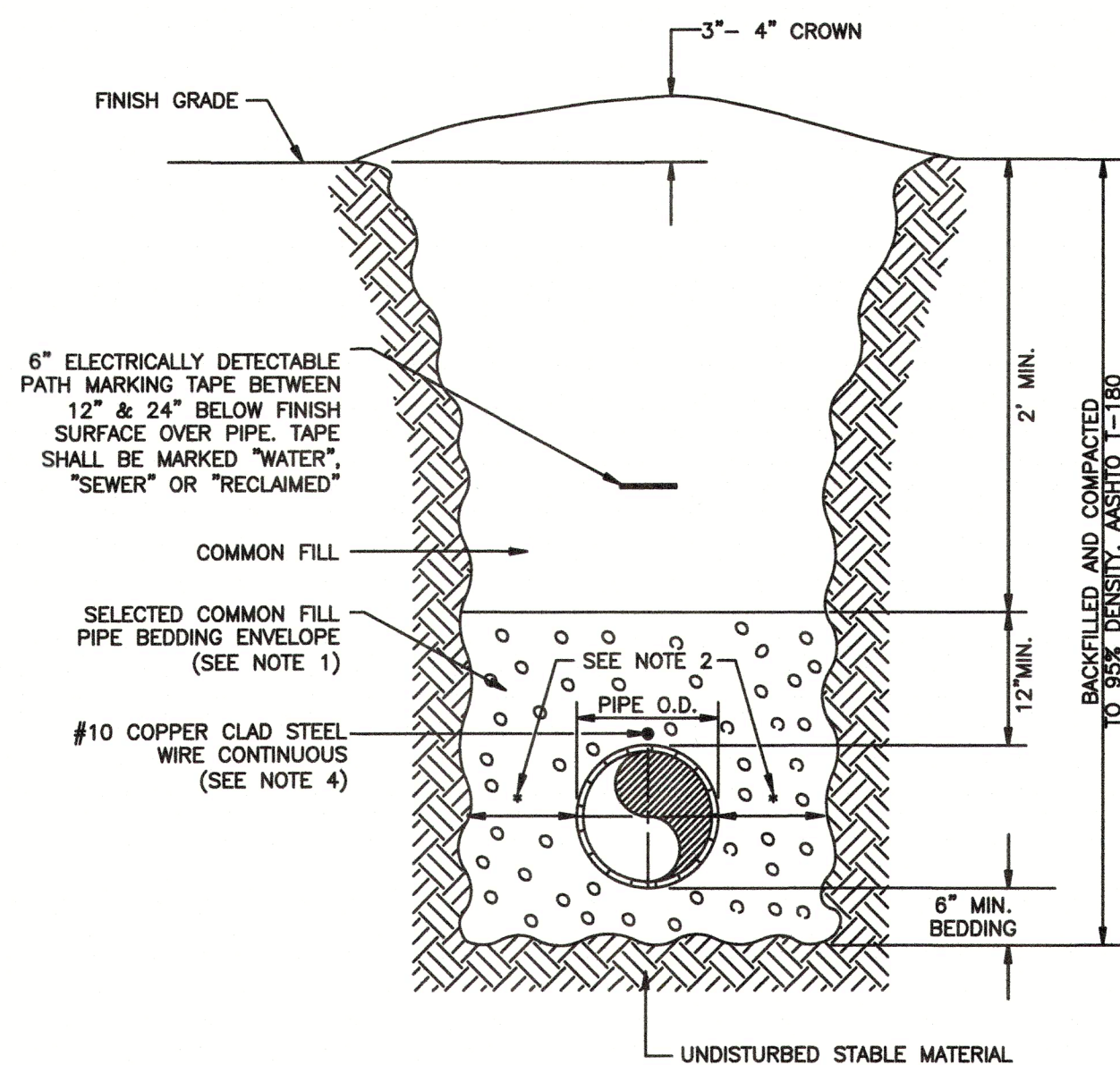
N.T.S.

Source: SDE

01/02/17

NOTES:

- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
- PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.

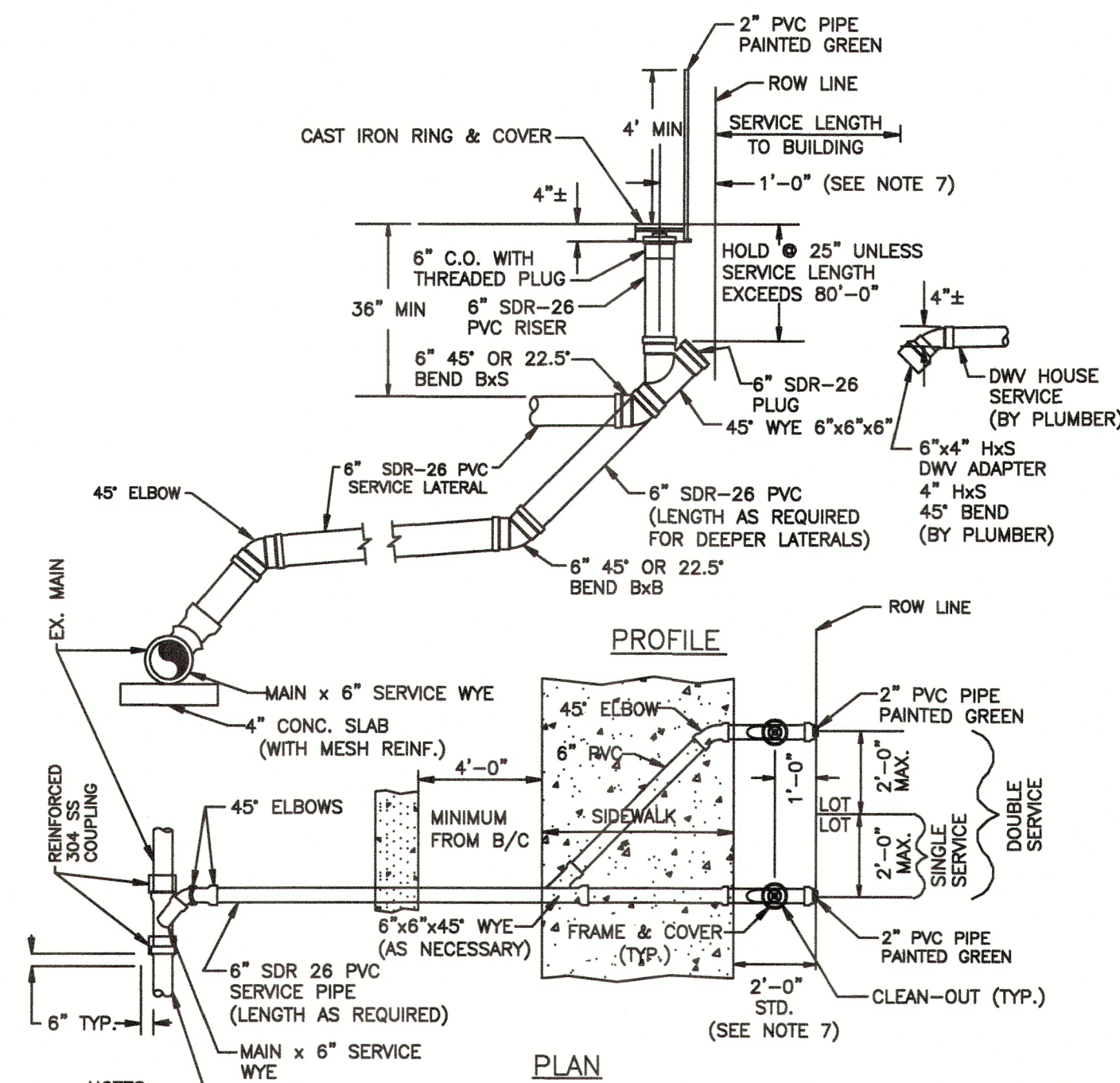


Trench With Unimproved Surface Type A-1 Pipe Bedding

N.T.S.

Manatee County

UG-11



NOTES:

- RUBBER DONUTS ARE NOT TO BE USED.
- "SCO" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE CLEAN-OUT. IF NO CURB INSTALL A GREEN DISC WITH "SCO" AND 1/8" X 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE CLEAN-OUT.
- SANITARY SEWER CLEAN-OUTS SHALL NOT BE LOCATED IN DRAINAGE SWALES, EASEMENTS, SIDEWALKS OR DRIVEWAYS.
- NO SERVICE CONNECTIONS TO BE MADE TO THE CLEAN-OUT RISER. ALL DOMESTIC CONNECTIONS SHALL BE MADE TO THE STUB-OUT PROVIDED.
- SEWER SERVICE SHALL BE 5' MIN. FROM WATER SERVICE OR FIRE HYDRANT.
- CLEAN-OUT ADAPTER TO BE SOLVENT-WELDED TO RISER TOP. CLEAN-OUT THREADS SHALL BE WRAPPED WITH TEFLON PLUMBERS TAPE TO SEAL PLUG WATER TIGHT.
- WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK & THE ROW LINE IS ONE FOOT (CUL-DE-SAC W/MEDIAN) THE DISTANCE BETWEEN THE CENTER OF THE CLEAN-OUT RISER & THE ROW LINE SHALL BE 6".

Cut-In Single and Double Service Wyes

N.T.S.

Source: Manatee County

US-13B

Shroyer
Drapala
Engineering, LLC

P.O. Box 9282
Bradenton, FL 34206

1111 3rd Ave. W.
Suite 210
Bradenton, FL 34205

Phone: (941) 746-4000
E-Mail: info@ShroyerDrapala.com

Submitted For:

Design By: Drawn By: Checked By:

JEC TMF JEC

Drawing Scale: Drawing Date:

1" = 30' 1/20/22

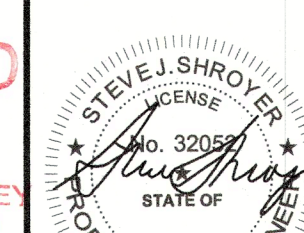
Sanitary Details

For
Brista Homes

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

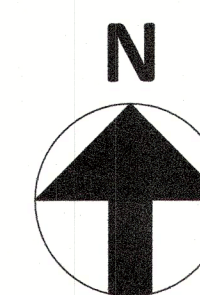
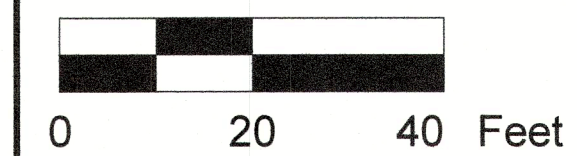
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END
↑

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

LP-1

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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

F:\PROJECTS\26300_GMD & Bulbwood Dr Property\CADD\Plan Set\16 26300 LIGHTING_OG.dwg January 13, 2023 - 5:22pm

E.P.

GULF OF MEXICO DRIVE
(100' PUBLIC RIGHT-OF-WAY)
(ASPHALT PAVEMENT)

EXISTING 8' WIDE SIDEWALK

OUTPARCEL
3,500 SF
FF EL = 4.50

BLDG 1
1,500 SF

BLDG 2
1,178 SF

BLDG 3
1,178 SF

BLDG 4
1,178 SF

BLDG 5
1,178 SF

BLDG 6
1,178 SF

BRISTA HOMES
AND
REALTY
2,597 SF

921 SF

PROPOSED 6' HIGH WHITE
PRIVACY FENCE w/
LANDSCAPE BUFFER

PROPOSED 1-STORY BLDG
(10,908 SF) FF EL = 4.50

GENERAL PHOTOMETRIC SCHEDULE	
866-516-9497	195215.16
MAXIMUM FOOT-CANDLES	878576.3
MINIMUM FOOT-CANDLES	573.2
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	1532.87
AVERAGE TO MINIMUM FC RATIO	340.60

PROPOSED 6' HIGH
WHITE PRIVACY FENCE
w/ LANDSCAPE BUFFER

PARCEL 1B

PARCEL 1A

STORM INLET
GRATE=1.41
INV 12"N=(-)1.48
INV 12"S=(-)1.41

Photometrics Pro

Luminaire Photometric Report

-(Evaluation Version)

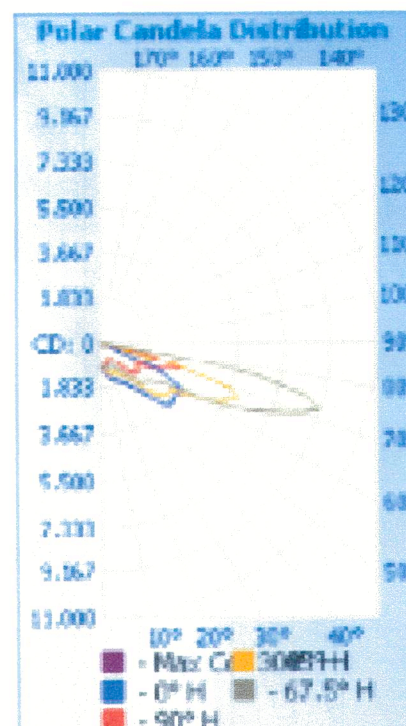
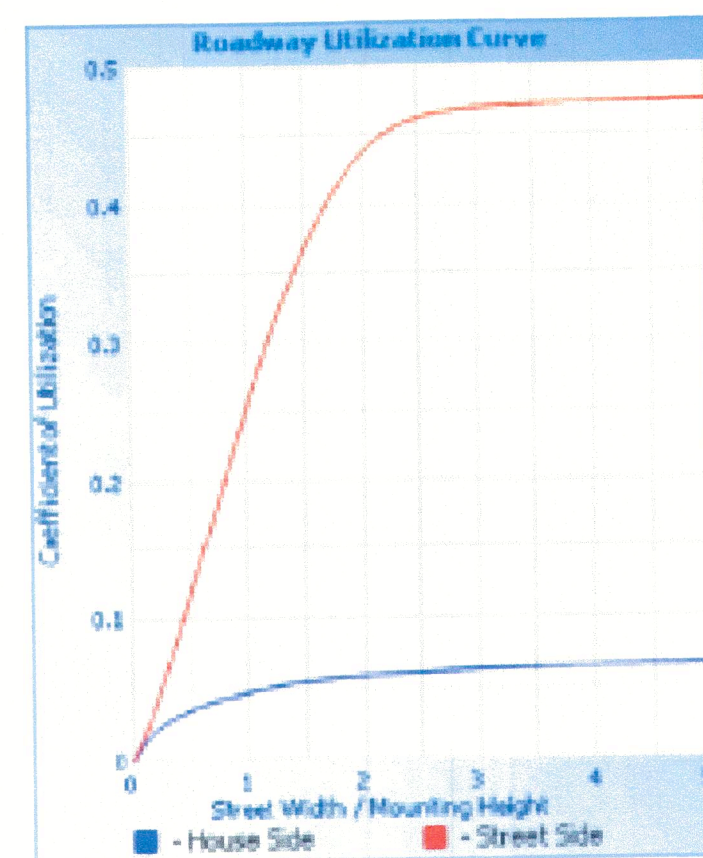
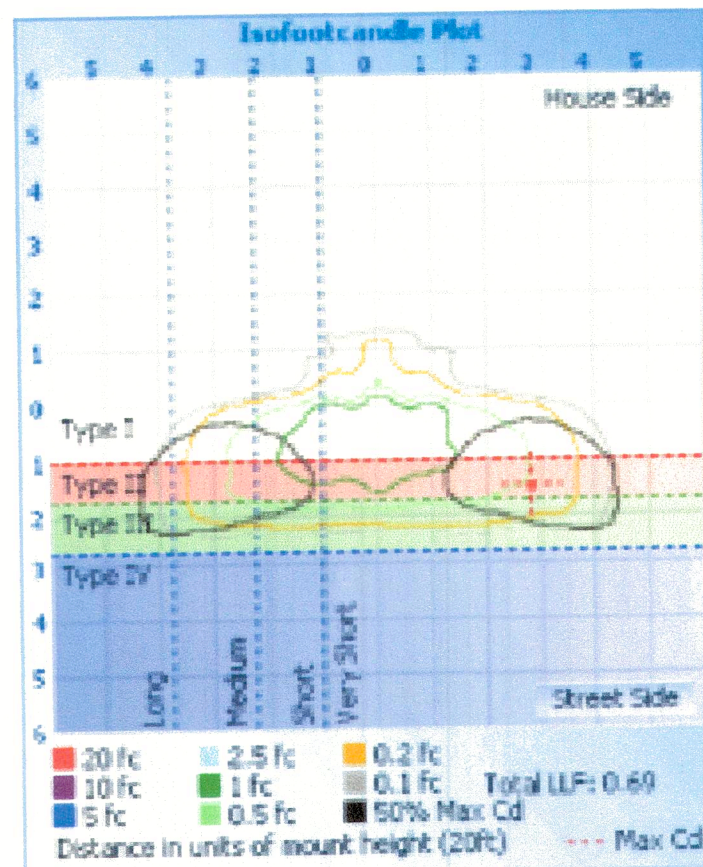
Filename: MED-BSW-T3-AMB-STL
Manufacturer: SYNERGY LIGHTING INC
Luminaire: MED SERIES
Luminaire Cat: MED-BSW-T3-AMB-STL
Lamp: X-70-CRI DATA SHOWN IS SCALED FROM 11645718.05
Lamp Output: Total Luminaire Lumens: 8621.6
Max Candela: 10,824.4 at Horizontal: 300°, Vertical: 72.5°
Input Wattage: 85.2822
Luminous Opening: Circular (Dia: 21")
Test Lab: IT SHENZHEN LTD OPTONICS
Photometry : Type C
Nema Type: 7 X 5

Roadway Summary

Cutoff Classification: NONCUTOFF
Distribution: TYPE III, MEDIUM
Max Cd, 90 Deg Vert: 0
Max Cd, 80 to <90 Deg: 2,743.4
Lumens % Lamp
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%
0-50	4,515.2 52.4%
60-90	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%

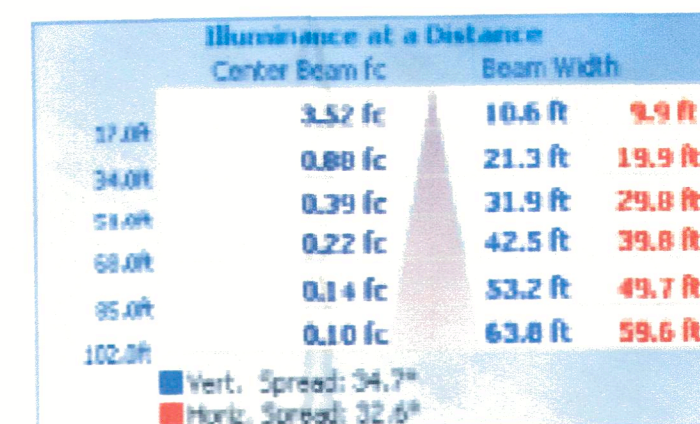
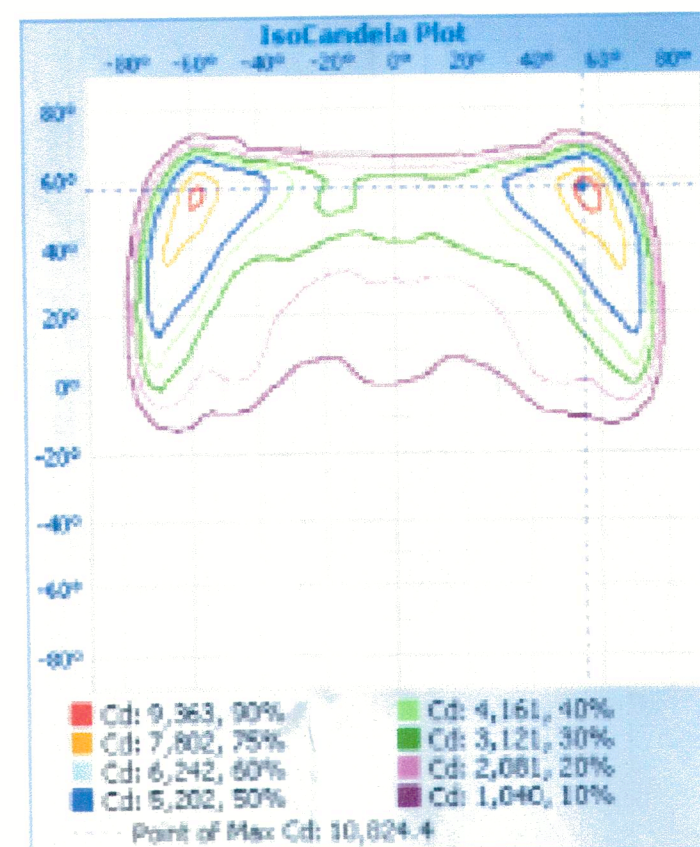


Flood Summary

Efficiency Lumens	Horizontal Spread	Vertical Spread
Field (10%): 87.3%	7,524.2	146.6
Beam (50%): 25.4%	2,192.0	32.6
Total: 100%	8,617.9	

Lumens Per Zone

Zone	Lumens % Total	Zone	Lumens % Total
0-10	94.4 1.1%	90-100	0 0%
10-20	255.6 3.0%	100-110	0 0%
20-30	420.4 4.9%	110-120	0 0%
30-40	731.0 8.5%	120-130	0 0%
40-50	1,292.7 15.0%	130-140	0 0%
50-60	1,721.2 20.0%	140-150	0 0%
60-70	2,367.8 27.5%	150-160	0 0%
70-80	1,651.9 19.2%	160-170	0 0%
80-90	86.7 1.0%	170-180	0 0%



Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%									
		0									
RCE %:		80	70	50	30	10	0				
RW %:		20	30	40	50	60	70	80	90	100	110
RCE: 0	1.191-19.1-19.1-19.1	1.161-16.1-16.1-16.1	1.111-11.1-11.1-11.1	1.061-10.6-10.6-10.6	1.021-10.2-10.2-10.2	1.001-10.0-10.0-10.0	1.000-10.0-10.0-10.0	1.000-10.0-10.0-10.0	1.000-10.0-10.0-10.0	1.000-10.0-10.0-10.0	1.000-10.0-10.0-10.0
1	1.05 99 93 88	1.02 96 91 77	92 87 83	88 84 81	84 81 78	76					
2	1.02 81 71 64	89 79 70 58	75 68 61	71 65 60	68 63 58	56					
3	1.01 67 56 48	78 65 55 44	62 53 46	59 52 45	56 50 44	42					
4	1.02 57 45 37	69 55 45 34	52 43 36	50 42 35	47 40 35	32					
5	1.05 49 38 29	62 48 37 28	45 36 29	43 35 28	41 34 28	25					
6	1.09 43 32 24	57 42 31 23	35 26 20	34 25 19	32 25 19	17					
7	1.14 38 27 20	52 37 27 19	35 26 20	34 25 19	32 25 19	17					
8	1.20 34 24 17	48 33 24 16	32 23 17	30 22 17	29 20 14	12					
9	1.26 31 21 15	45 30 21 14	29 20 14	27 20 14	26 19 14	12					
10	1.33 28 19 13	42 27 19 12	26 18 13	25 18 13	24 17 12	10					

Luminaire Report Summary

IESNA:LM-63-2002

(TEST)

(TESTLAB) IT SHENZHEN LTD OPTONICS

(ISSUEDATE) 5/13/2018

(MANUFACT) SYNERGY LIGHTING INC

(LUMCAT) MED-BSW-T3-AMB-STL

(LUMINAI) MED SERIES

(LAMP) X-70-CRI

(SEARCH SOURCE) TYPE C

(SEARCH COLORE) AMBER

(SEARCH APPLICATION) OUTDOOR

(SEARCH MOUNTING) AIR

(SEARCH CRI) 40

(NOTE) DATA SHOWN IS SCALED FROM 11645718.05

(SEARCH CERTIFICATION) CSA

FILE: CREATED USING ABSOLUTE PHOTOMETRY

FILE: CANDELA MULTIPLIER: 0.92

FILE: VERTICAL ANGLES: 73, HORIZONTAL ANGLES: 77

FILE: COORDINATE SYSTEM: TYPE C

FILE: UNIT OF MEASURE: STANDARD

FILE: BALLAST FACTOR: 0.3

Photometrics Pro 1.3.29 - (Evaluation Version) copyright 2003-2023 by JSL Solutions, Inc.

Reported data calculated from manufacturer's data file, based on IES recommended methods.

Candela Table - Type C

	0	5	15	25	35	45	55	60	62.5	65	67.5	70	72.5	75	77.5	80	82.5	85	87.5	90	92.5	95	97.5	100	102.5	105	107.5	110	112.5	115	117.5	120	125	135	145	155	165		
0	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	
2.5	1113	1112	1105	1096	1087	1078	1069	1063	1056	1050	1047	1042	1038	1035	1032	1030	1027	1024	1020	1015	1009	1005	994	984	977	968	960	951	944	935	926	920	907	882	852	823	802		
5	1196	1199	1193	1176	1159	1130	1128	1116	1109	1102	1095	1088	1080	1071	1062	1054	1046	1040	1033	1024	1015	1005	994	984	977	968	960	951	944	935	926	920	907	882	852	823	802		
7.5	1303	1306	1303	1280	1253	1224	1175	1153	1143	1133	1124	1114	1103	1090	1076	1063	1051	1039	1028	1016	1002	988	973	961	950	938	929	918	907	894	881	872	848	805	774	704	666		
10	1407	1409	1406	1384	1346	1295	1217	1176	1160	1142	1126	1110	1095	1079	1064	1047	1030	1015	997	980	961	944	927	912	900	884	873	860	848	833	818	805	778	729	670	603	56		
12.5	1497	1498	1496	1474	1425	1347	1234	1177	1150	1123	1099	1076	1054	1034	1014	995	971	953	932	914	892	871	849	828	813	792	777	762	748	734	723	713	693	648	586	512	469		
15	1568	1571	1572	1550	1484	1372	1221	1147	1113	1078	1048	1020	990	966	943	919	891	867	841	818	790	767	740	720	702	682	663	648	637	624	614	603	582	548	487	435	401		
17.5	1630	1633	1643	1616	1519	1369	1201	1119	1081	1045	1012	979	947	918	889	862	832	805	776	746	717	692	661	632	608	587	569	542	526	511	496	486	467	433	402	307	36		
20	1680	1685	1714	1670	1527	1365	1199	1127	1088	1054	1020	988	956	923	887	852	817	783	748	713	678	645	610	577	549	519	494	473	454	434	415	398	363	356	363	33			
22.5	1727	1734	1789	1709	1532	1378	1240	1177	1144	1109	1072	1034	995	955	911	866	823	781	736	692	649	606	565	527	495	465	441	417	396	376	356	334	306	304	330	334	31		
25	1795	1806	1889	1741	1554	1425	1332	1276	1241	1202	1158	1111	1062	1013	959	903	849	798	744	690	635	583	534	490	456	427	403	380	356	330	306	291	283	271	293	310	29		
27.5	1888	1912	1998	1789	1597	1498	1448	1393	1352	1307	1252	1198	1141	1084	1026	955	893	832	769	705	641	581	526	478	442	411	384	357	325	293	277	272	268	253	264	294	29		
30	1998	2037	2090	1845	1647	1559	1527	1474	1433	1388	1332	1275	1217	1158	1092	1023	955	887	817	744	672	602	540	487	445	410	378	343	300	275	267	263	258	240	244	270	28		
32.5	2145	2211	2140	1923	1717	1620	1597	1547	1511	1472	1429	1382	1333	1277	1217	1149	1080	1001	920	830	738	654	581	521	473	431	393	344	298	281	274	269	259	234	231	265	27		
35	2326	2411	2226	2027	1846	1745	1725	1695	1666	1640	1613	1582	1547	1504	1452	1381	1306	1227	1097	970	841	727	638	567	511	466	422	381	339	306	301	301	279	237	227	258	26		
37.5	2549	2621	2326	2159	2056	1972	1914	1900	1877	1862	1846	1825	1805	1780	1739	1670	1592	1470	1326	1157	976	821	709	624	556	506	455	411	366	341	340	351	311	246	232	252	26		
40	2785	2839	2487	2386	2341	2247	2182	2144	2103	2092	2082	2077	2065	2042	2007	1933	1792	1615	1410	1175	971	813	698	609	553	494	433	402	387	390	404	347	259	244	250	261	26		
42.5	3157	3163	2678	2693	2676	2590	2450	2332	2263	2241	2242	2269	2311	2344	2353	2333	2258	2113	1921	1686	1426	1168	952	789	665	588	519	465	438	425	433	436	370	273	267	254	281	26	
45	3611	3584	3058	2997	3041	2930	2627	2415	2348	2327	2340	2384	2439	2482	2499	2482	2420	2295	2105	1849	1561	1268	1014	819	673	585	517	473	447	435	435	423	363	278	288	272	31		
47.5	3761	3726	3279	3279	3288	3198	2758	2540	2450	2416	2416	2449	2498	2536	2550	2533	2476	2362	2174	1901	1576	1264	995	787	654	571	509	470	443	426	417	402	350	274	293	294	34		
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57.5	3820	3690	3078	2960	3547	3899	3807	3711	3601	3513	3413	3352	3257	3170	2917	2703	2501	2259	1985	1688	1363	1074	818	571	412	327	302	289	283	288	327	358	408	356	342	274	281		
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65	1624	1762	2096	2862	4346	5567	6245	6435	6535	6574	6694	6727	6187	5827	5605	5156	4699	4189	3674	3166	2593	1980	1300	668	47	325	264	231	232	235	209	326	348	325	238	209	226	221	
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82.5	1624	1762	2096	2862	4346	5567	6245	6435	6535	6574	6694	6727	6187	5827	5605	5156	4699	4189	3674	3166	2593	1980	1300	668	47	325	264	231	232	235	209	326	348	325	238	209	226	221	
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90	162																																						