

SITE DEVELOPMENT PLAN


Reviewed for code compliance
 Joshua Ooyman
 08/28/2024 1:33:38 PM

Reviewed for code compliance
 M Holden
 08/28/2024 4:19:55 PM

Marco Luxe 138-168 S. BARFIELD DR. MARCO ISLAND, FL 34145 S9/ T52S/ R26E

Prepared for Owner:
 Marco Luxe LLC
 1083 N Collier Blvd., #340
 Marco Island, FL 34145

INDEX OF PLANS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	EROSION CONTROL / AERIAL
3	SITE DEVELOPMENT PLAN
4	WATER AND SEWER PLAN
5	PAVING GRADING AND DRAINAGE
6	DETAIL & SECTION SHEET
7	DETAIL SHEET
8	FIRE PLAN 

PROJECT DATA

PROJECT NAME:	Marco Luxe
PROJECT NO.:	
ZONING:	C-3
FOLIO:	57190640006, 57190680008, 57190720007, 57190760009
FEMA FL. ZONE:	AE 10.0' (2024 MAP)

BUILDING DATA

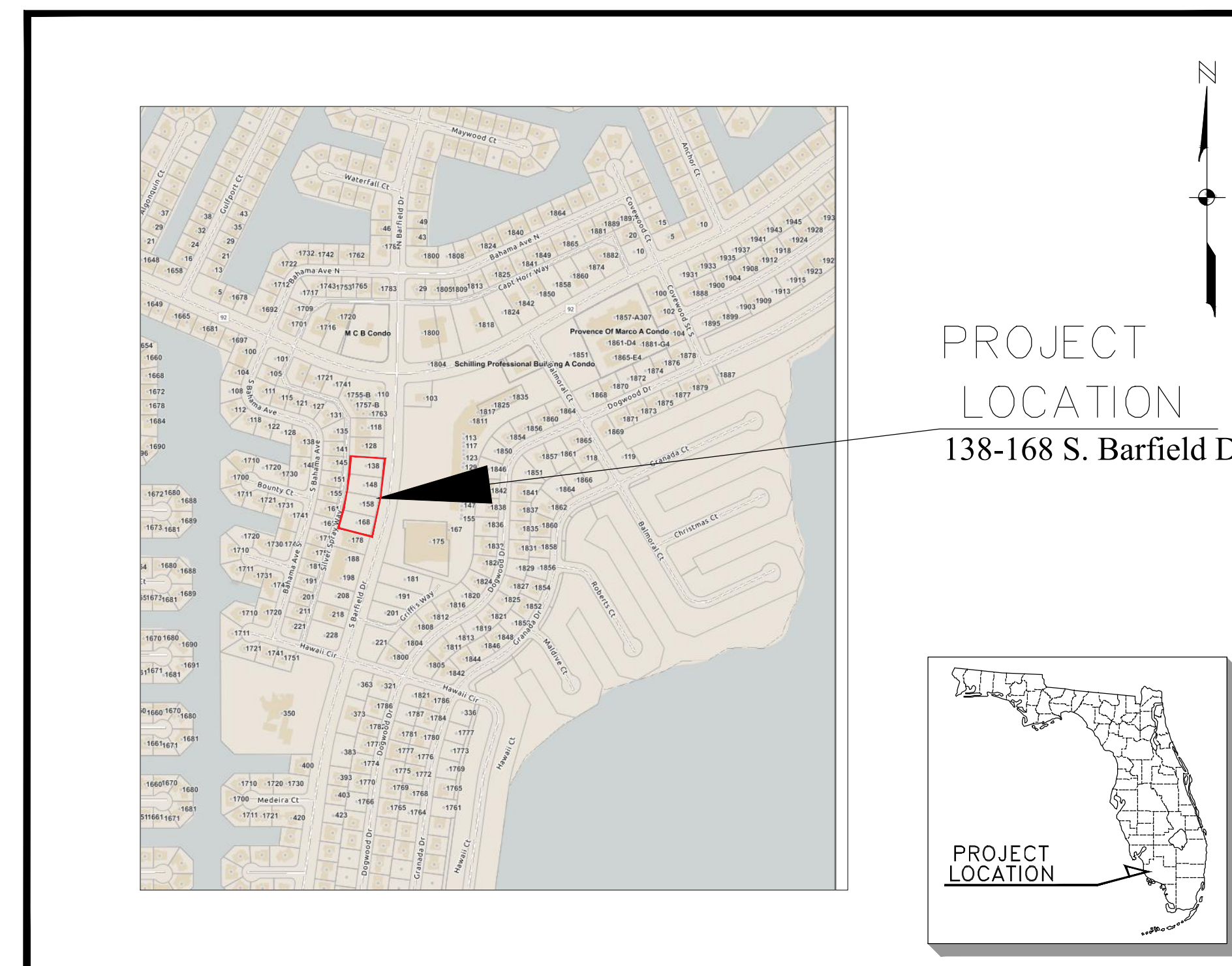
BUILDING CODE REFERENCES:	
FLORIDA FIRE PREVENTION CODE	8TH ED.
FLORIDA BUILDING CODE	2023, 8TH ED.
BUILDING CODE DATA:	
OCCUPANCY:	STORAGE (S-1)
CONSTRUCTION TYPE:	FBC TYPE IIB, SPRINKLED
BUILDING HEIGHT:	
MAX HEIGHT:	50' HEIGHT (C-3)
PROPOSED HEIGHT:	2 STORIES, 23'-6"
BUILDING FLOOR AREA SUMMARY:	
PROPOSED:	
BUILDING 1 (AREA UNDER A/C)	6,909 SF
BUILDING 2 (AREA UNDER A/C)	13,991 SF
BUILDING 3 (AREA UNDER A/C)	6,909 SF
TOTAL (AREA UNDER A/C)	27,809 SF
BUILDING 1 COVERED ENTRY	55 SF
BUILDING 2 COVERED ENTRY	110 SF
BUILDING 3 COVERED ENTRY	55 SF

LEGAL DESCRIPTION

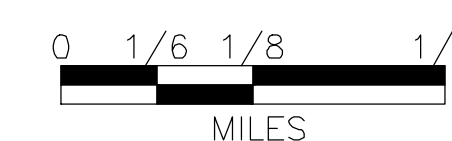
MARCO BCH UNIT 5 BLK 83 LOT S 7-10

DRAWING COORDINATION

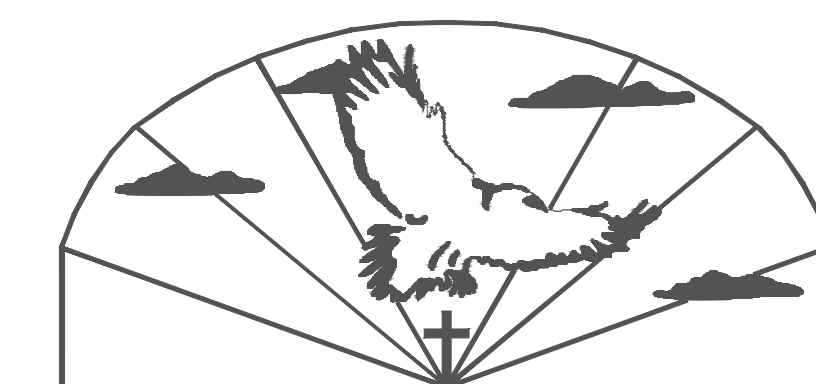
ARCHITECT: SheelyArchitects Inc
 8200 College Parkway
 Ft. Myers, FL 33919
 (239) 482-2121



LOCATION MAP



April 2024
 Rev. July 2024



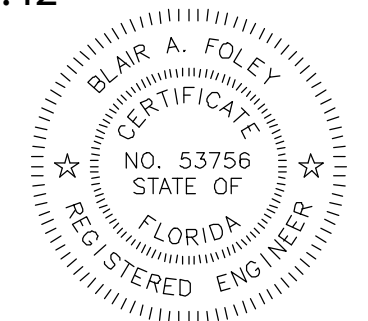
Blair A. Foley, P.E., LLC

Civil Engineer / Development Consultant
 120 Edgemere Way South - Naples, FL 34105
 Phone (239) 263-1222 - Cell (239) 289-4900 - Fax (239) 263-0472 - E-mail foils000@aol.com

Digitally signed by Blair A Foley
 Date: 2024.07.09 13:35:42
 -04'00'

Certificate Of Authorization No. 9469
 Florida Registered Professional Engineer No. 53756

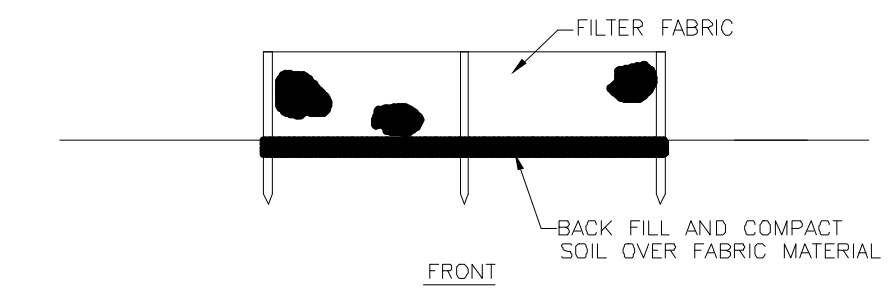
Name _____ Date _____



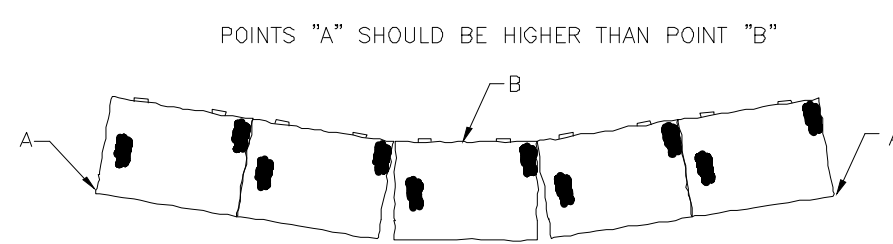
MARCO LUXE
 -SDP

SHEET
 1 of 8

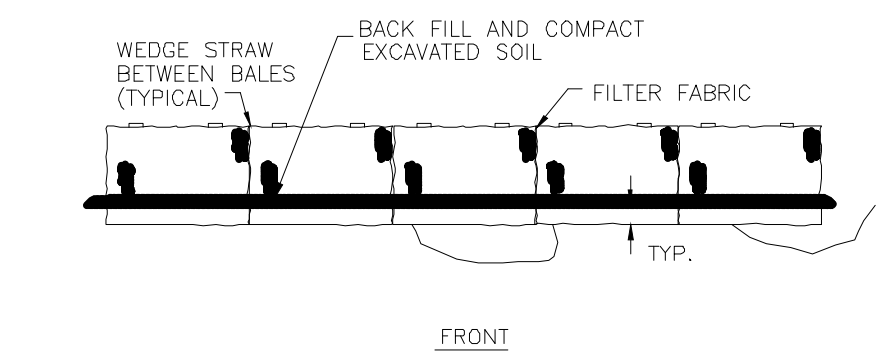
FLUCCS CODES:
190-DISTURBED/MOWED GRASS



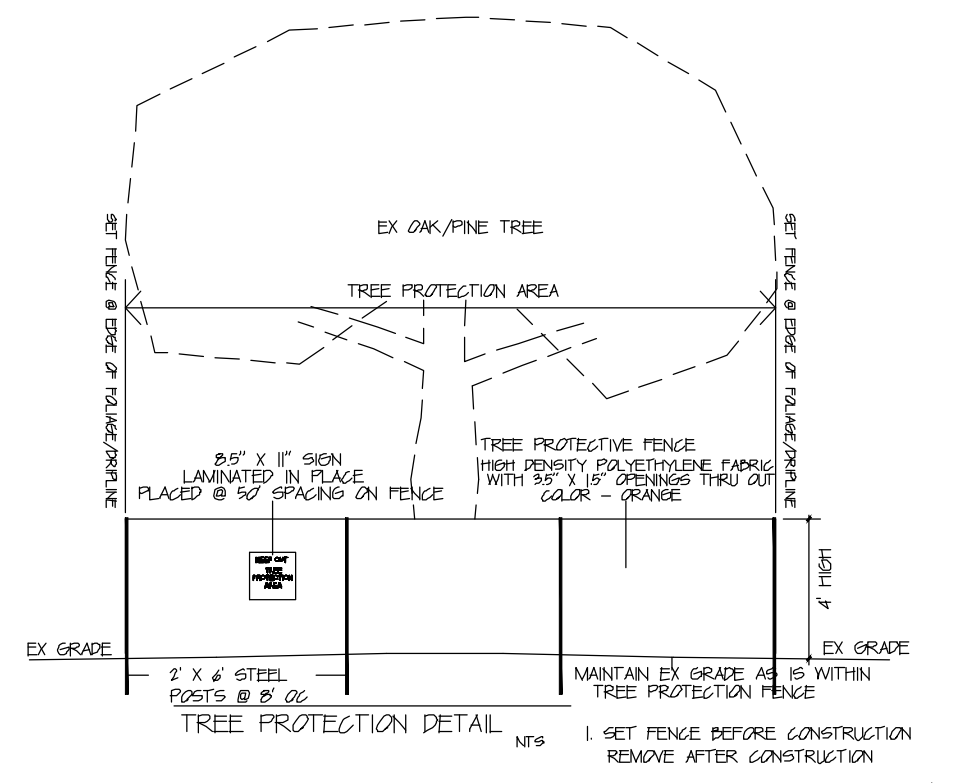
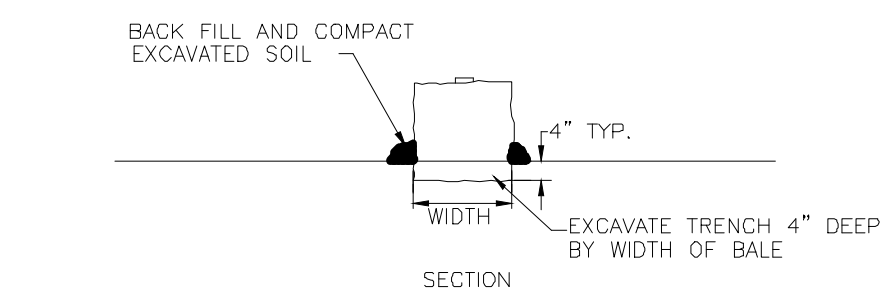
FILTER BARRIER
NOT TO SCALE



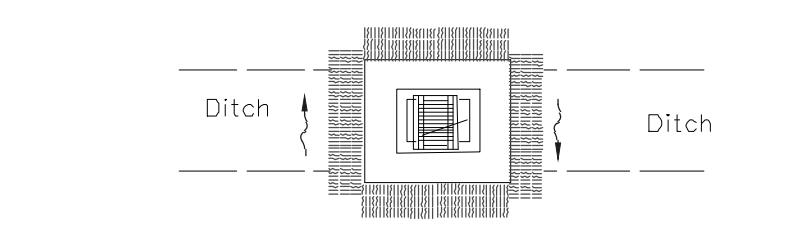
IN DRAINAGE WAY
NOT TO SCALE



STRAW BALE BARRIER
NOT TO SCALE



ACCESS POINT DETAIL - NOT IN ROW
NOT TO SCALE



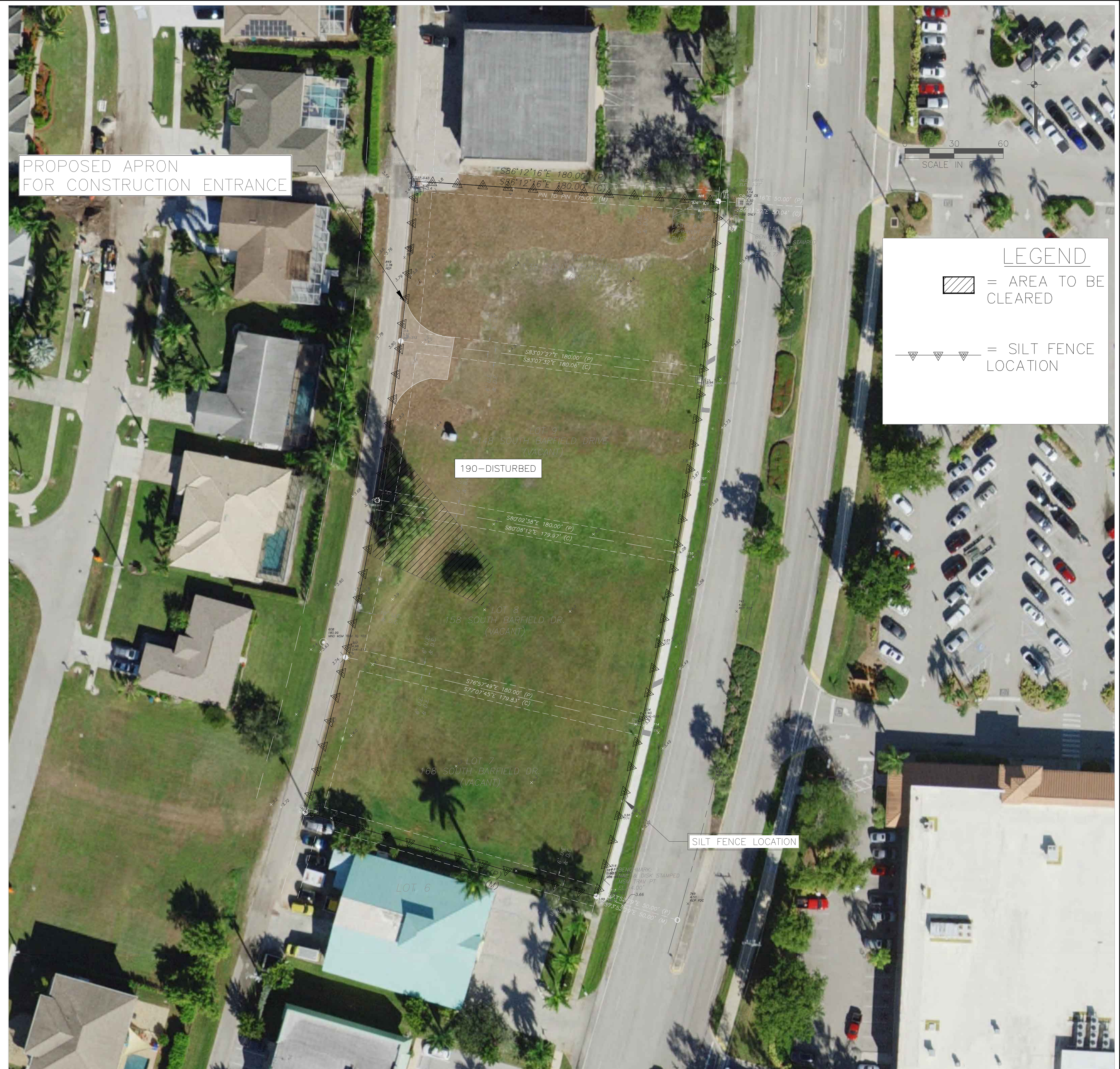
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

- CLEARING AND EROSION NOTES:**
- EXOTIC VEGETATION, AS DEFINED BY THE COLLIER COUNTY LAND DEVELOPMENT CODE (LDC), SHALL BE REMOVED FROM THE SITE AND SUBSEQUENT ANNUAL EXOTIC REMOVAL (IN PERPETUITY) SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
 - THE REVIEW AND APPROVAL OF IMPROVEMENT PLANS DOES NOT AUTHORIZE THE CONSTRUCTION OF REQUIRED IMPROVEMENTS WHICH ARE INCONSISTENT WITH EASEMENTS OF RECORD.
 - THE PROPERTY OWNER IS RESPONSIBLE FOR REPLACEMENT OF ALL DEAD LANDSCAPE MATERIAL AND FOR MAINTENANCE OF THE REQUIRED IRRIGATION SYSTEM.
 - BARRICADES AND SILT BARRIERS WILL REMAIN IN PLACE UNTIL FINAL GRADING AND SEEDING OR SODDING IS COMPLETE.
 - ALL PROPOSED INLETS SHALL BE PROTECTED WITH FILTER FABRIC DURING CONSTRUCTION.
 - ACCESS POINT SHALL BE A MINIMUM 6" THICK #1 FOOT STONE, AND IS TO EXTEND A MINIMUM OF 50' INTO THE PROJECT.
 - NO GRAVEL OR STONE SHALL BE WITHIN ANY ROW. A CONCRETE APRON SHALL BE PROVIDED FROM THE ASPHALT TO THE ROW LINE.
 - USE BARRICADES TO PROTECT VEGETATION TO REMAIN. SEE DETAIL.

PROPER PLACEMENT OF FILTER BARRIER IN DRAINAGE WAY
NOT TO SCALE

BOUNDARY & EXISTING CONDITIONS FROM: JOHNSON ENGINEERING, INC

AREA TO BE CLEARED = 0.1 ACRE



LEGEND

= AREA TO BE CLEARED

= SILT FENCE LOCATION

DESIGN	BAF	5				
DRAWN	AOM	3				
CHECKED	BAF	2				
D.C.		1				
	NO.	DATE	REVISION	APPO BY		

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

Blair A. Foley, P.E., LLC
Civil Engineer / Development Consultant
120 Edgemere Way South - Naples, FL 34105
Phone (239) 263-1222 Cell (239) 289-4900 Fax (239) 263-0472 E-mail fols00@aol.com

CLIENT: MARCO LUXE LLC

MARO LUXE
Collier County, Florida

EROSION CONTROL / AERIAL / FLUCCS CLEARING PLAN

CERT. OF AUTHORIZATION

Blair A. Foley, P.E.
No. 53758
STATE OF FLORIDA
Professional Engineer

PROJ. NO. _____
SCALE 1" = 30'
DATE 4/9/2024
SHT 2 OF 8

GENERAL NOTES

- ELEVATIONS ARE REFERENCED TO NAVD OF 1988.
- CURRENT ZONING FOR THIS PARCEL IS C-3.
- THE REVIEW AND APPROVAL OF IMPROVEMENT PLANS DOES NOT AUTHORIZE THE CONSTRUCTION OF REQUIRED IMPROVEMENTS WHICH ARE INCONSISTENT WITH EXISTING EASEMENTS OF RECORD.
- HANDICAP PARKING AND ACCESSIBILITY SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF FLORIDA REQUIREMENTS OR THE AMERICANS WITH DISABILITY ACT (ADA) WHICHEVER IS MORE STRINGENT.
- ALL DRIVEWAYS, LANDSCAPING, SIGNS, GRASS, ETC. SHALL BE RESTORED TO A CONDITION EQUIVALENT TO PRE CONSTRUCTION CONDITION UNLESS OTHERWISE APPROVED BY THE ENGINEER AND COUNTY.
- REQUESTS FOR INSPECTIONS SHALL BE PROVIDED TO CITY OF MARCO ISLAND STAFF AT LEAST FORTY EIGHT (48) HOURS PRIOR TO THE REQUESTED INSPECTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE COUNTY AND ALL UTILITY COMPANIES IN THE AREA 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION, AND SHALL HAVE ALL EXISTING UTILITY LINES (SPRINK, FPL, WATER, CABLE, SANITARY, SEWER, IRRIGATION, FORCE MAIN & ANY OTHERS) LOCATED AND FLAGGED PRIOR TO ANY EXCAVATION.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THE APPROVED PLANS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL PROMPTLY REPORT ALL FIELD CHANGES TO THE ENGINEER.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ALL EXISTING CONFLICTS TO DESIGN PLANS (I.E. POLES, BOXES, VALVES ETC.), AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY REQUIRED PLAN DEVIATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES AS A RESULT OF ALL CONFLICTS NOT SATISFACTORILY RESOLVED. ENGINEER IS NOT LIABLE FOR ANY CONFLICT SHOWN OR OMITTED FROM THIS PLAN OR SURVEY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT SITE. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FLORIDA MANUAL OF TRAFFIC AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS.
- ALL DISTURBED PVIOUS AREAS NOT LANDSCAPED SHALL BE SOODED AND/OR SEEDED AND MULCHED AS DIRECTED BY THE OWNER OR ENGINEER.
- DIMENSIONS WHICH REFERENCE CURBING ARE SHOWN TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION METHODS AND MATERIALS TO CITY OF MARCO ISLAND LAND DEVELOPMENT CODE AND F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION.
- SEE CLEARING PLAN FOR LIMITS OF CLEARING.
- THE PROPERTY OWNER IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL FEATURES OF THE INFRASTRUCTURE, OPEN SPACES, & PAVED AREAS ON THEIR PROPERTY.
- FINAL RESTORATION UPON REMOVAL OF TEMPORARY CONSTRUCTION ENTRANCE: UPON COMPLETION OF THE PROJECT, THE TEMPORARY CONSTRUCTION ENTRANCE AND ASSOCIATED IMPROVEMENTS SHALL BE REMOVED AND THE RIGHT-OF-WAY, INCLUDING GROUND COVER SHALL BE RESTORED.

LANDSCAPING

- ALL EXOTIC VEGETATION AS DEFINED BY THE CITY OF MARCO ISLAND L.D.C. SHALL BE REMOVED FROM THE SITE AND SUBSEQUENT ANNUAL EXOTIC REMOVAL (IN PERPETUITY) SHALL BE THE RESPONSIBILITY OF THE OWNER.
- THE PROPERTY OWNER IS RESPONSIBLE FOR REPLACEMENT OF ALL DEAD LANDSCAPE MATERIAL AND FOR THE MAINTENANCE OF THE REQUIRED IRRIGATION SYSTEM.
- CONTRACTOR SHALL REMOVE LIMEROCK WITHIN LANDSCAPE ISLANDS LOCATED WITHIN AND ADJACENT TO THE PARKING AREAS. THESE AREAS SHALL FILLED WITH CLEAN DIRT OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.

PAVING, GRADING AND DRAINAGE NOTES:

- THE PROPERTY OWNER IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL FEATURES OF THE SURFACE WATER MANAGEMENT SYSTEM AS OUTLINED BY THE DESIGN ENGINEER ON THESE DRAWINGS.
- ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.
- MIN. FINISHED FLOOR ELEVATIONS SHALL BE AS SHOWN ON THE SITE PLAN.
- SITE IS LOCATED WITHIN THE FLOOD ZONE AE.
- HAY BALES, SILT SCREENS AND OTHER EROSION CONTROL MEASURES SHALL BE UTILIZED TO CONTAIN ALL DISTURBED AREAS IN ACCORDANCE WITH THE EROSION CONTROL DETAILS.
- SILT SCREENS TO BE INSTALLED AROUND PERIMETER OF PROPERTY AND/OR DISTURBED AREAS AND MAINTAINED DURING CONSTRUCTION.
- ALL PROPOSED ON-SITE PAVING SHALL BE ASPHALT, UNLESS OTHERWISE NOTED.
- WALKWAYS, DRIVEWAYS, DRIVEWAYS, WALKWAYS SHALL BE CONCRETE OR PAVED BRICKS.
- A CITY OF MARCO ISLAND PERMIT TO PERFORM WORK AND/ OR MAINTENANCE IN THE PUBLIC RIGHT OF WAY IS REQUIRED FOR WORK WITHIN S. BARFIELD DR. AND SILVER SPRAY WAY.
- THE FOLLOWING FOOT DETAIL INDEX SHEETS APPLY FOR ALL ROW ITEMS:
INDEX NO. 425-052 - DITCH BOTTOM DETAILS
INDEX NO. 522-002 - DETECTABLE WARNINGS / SIDEWALK RAMPS
INDEX NO. 522-003 - TURNOUTS
INDEX NO. 711-001 - SPECIAL MARKING AREAS.

UTILITY NOTES:

- ALL WATER DISTRIBUTION SYSTEM CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH APPLICABLE CITY OF MARCO ISLAND UTILITIES SPECIFICATIONS.
- ALL SEWAGE COLLECTION SYSTEM CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH APPLICABLE CITY OF MARCO ISLAND UTILITIES SPECIFICATIONS.
- ALL ON SITE WATER AND SEWER IS TO BE OWNED AND MAINTAINED BY THE OWNER, UNLESS OTHERWISE NOTED.
- THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED, THEREFORE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL UTILITY LINES AND SERVICES DAMAGED DURING CONSTRUCTION, INCLUDING IRRIGATION LINES AND SERVICES. THE APPROPRIATE UTILITY SHALL BE NOTIFIED OF ALL DAMAGED LINES PRIOR TO REPAIR. ALL NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY UPON DAMAGED OF LINE.
- ALL UTILITY CONNECTIONS SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OF EACH INDIVIDUAL UTILITY LINE.
- THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE ENGINEER OR COUNTY.
- THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OR THE CITY.
- ALL CONDUITS REQUIRED FOR UTILITY INSTALLATIONS SHALL BE INSTALLED PRIOR TO THE STREET/PAVEMENT CONSTRUCTION.
- SITE LIGHTING SHALL BE PROVIDED, AS REQUIRED, BY ARCHITECT.
- ALL SEWER UTILITY CONSTRUCTION TO BE IN ACCORDANCE WITH CITY OF MARCO ISLAND PUBLIC UTILITIES DIVISION SPECIFICATIONS, LATEST EDITION.
- ALL WATER UTILITY CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF MARCO ISLAND UTILITIES SPECIFICATIONS AND STANDARDS MANUAL, LATEST EDITION.
- CITY OF MARCO ISLAND OWNERSHIP & MAINTENANCE RESPONSIBILITIES STOP AT THE PROPERTY SIDE OF THE WATER SERVICE BACKFLOW PREVENTER.
- THE DEVELOPER'S CONTRACTOR TO PROVIDE BOLLARDS TO PROTECT FIRE HYDRANTS, AS NECESSARY.
- THE DEVELOPER'S CONTRACTOR TO PROVIDE A MINIMUM OF 10 FEET SEPARATION DISTANCE BETWEEN WATER SERVICES AND ELECTRICAL BOXES AND STREET LIGHTS.
- ALL COSTS AND EXPENSES OF ANY AND ALL REPAIRS, REPLACEMENTS, MAINTENANCE AND RESTORATIONS OF ABOVEGROUND IMPROVEMENTS PERMITTED WITHIN A CUE SHALL BE THE SOLE FINANCIAL RESPONSIBILITY OF THE GRANTOR, ITS SUCCESSORS OR ASSIGNS.

FIRE:

- A SEPARATE PERMIT IS REQUIRED PRIOR TO INSTALLATION OF ANY FIRE LINE.
- INSTALLATION OF ALL UNDERGROUND FIRE LINES SHALL COMPLY WITH THE 2022 EDITION OF NFPA 24.
- UNDERGROUND FIRE LINES SHALL BE INSTALLED BY AN APPROPRIATELY CERTIFIED SPRINKLER CONTRACTOR OR A TYPE V UNDERGROUND CONTRACTOR AS DEFINED BY AND OUTLINED F.S. 633.102(24).
- PIPING USED FOR FIRE PROTECTION SERVICE THAT IS RUN UNDER DRIVEWAYS SHALL BE BURIED AT A MINIMUM DEPTH OF 36".

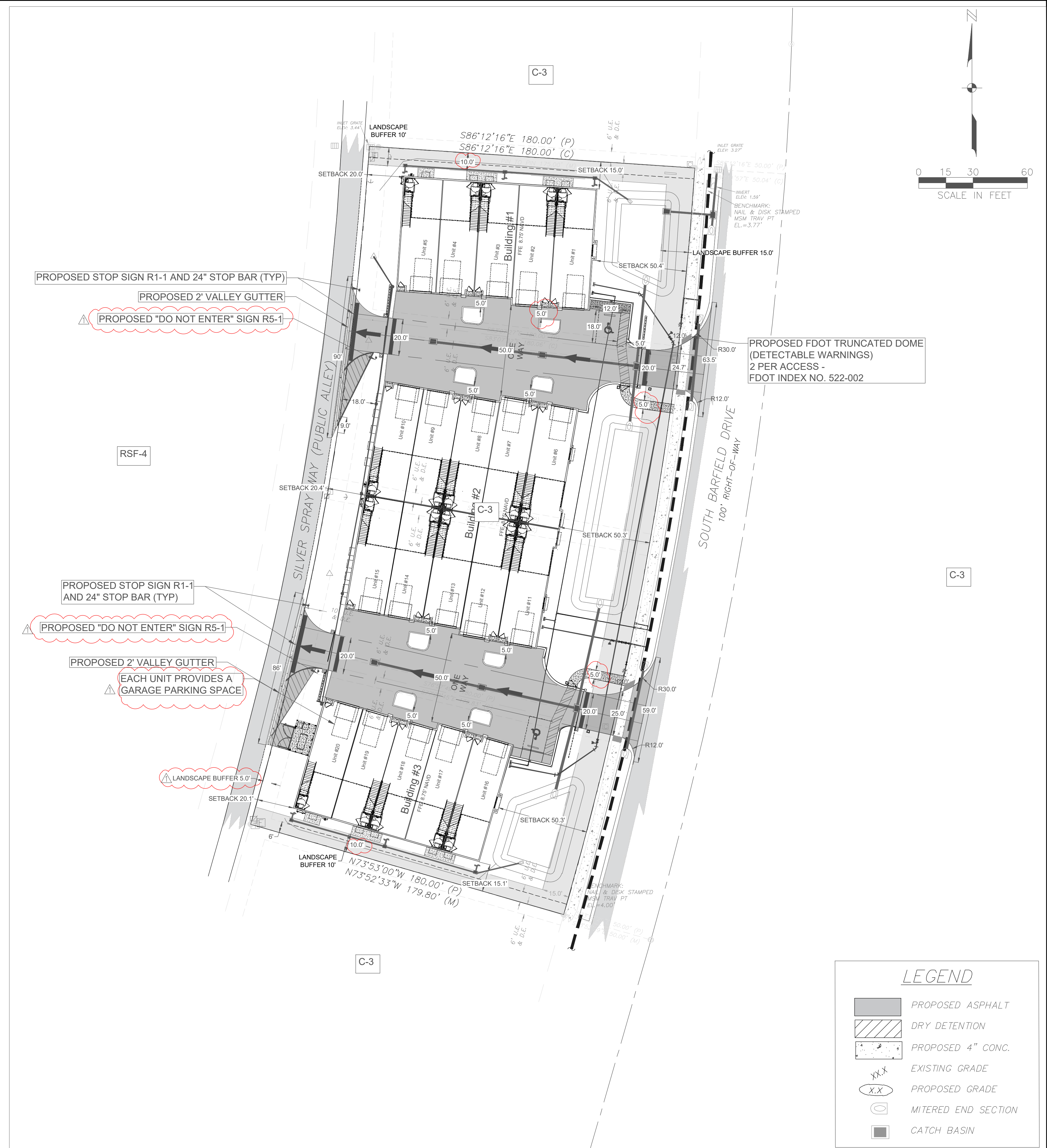
SITE SUMMARY TABLE				
TOTAL SITE			1.64	AC
PROPOSED SITE SUMMARY				
BUILDING FOOTPRINT	27,900	SF	0.64	AC 39.1%
SIDEWALK/CONCRETE	1,780	SF	0.04	AC 2.5%
PAVEMENT (VUA)	18,900	SF	0.43	AC 26.5%
IMPERVIOUS SUBTOTAL	48,580	SF	1.12	AC 68.0%
OPEN SPACE:				
GREEN SPACE	16,493	SF	0.38	AC 23.1%
DRY DETENTION	6,365	SF	0.15	AC 8.9%
PERVIOUS SUBTOTAL	22,858	SF	0.52	AC 32.0%
TOTAL	71,438	SF	1.64	AC 100%

SETBACK TABLE (CITY OF MARCO ISLAND)			
PROPOSED BUILDING	PROVIDED	REQUIRED	
HEIGHT	25' 5"	50'	
SETBACK FROM PROPERTY LINE-BUILDING 1			
FRONT	E = 50.3'	50'	
REAR	W = 20.1'	15'	
SIDE	N = N/A	15'	
SIDE	S = 15.1'	15'	
SETBACK FROM PROPERTY LINE-BUILDING 2			
FRONT	E = 50.3'	50'	
REAR	W = 20.4'	15'	
SIDE	N = N/A	15'	
SIDE	S = N/A	15'	
SETBACK FROM PROPERTY LINE-BUILDING 3			
FRONT	E = 50.4'	50'	
REAR	W = 20.0'	15'	
SIDE	N = 15.0'	15'	
SIDE	S = N/A	15'	
BUILDING SEPARATION			
BUILDINGS 1&2	50'		
BUILDINGS 2&3	50'		

ZONING SUMMARY	LAND USE
SITE	C-3
NORTH	C-3
SOUTH	C-3
EAST	ROW S. BARFIELD DR.
EAST OF ROW	C-3
WEST	ROW SILVER SPRAY WAY
WEST OF ROW	RSF-4

PARKING TABLE			
USE: STORAGE FACILITY: SELF-SERVICE			
PARKING REQUIRED:	RATE	SF	TOTAL
PROPOSED BLDG	1 per 20,000 SF of storage buildings	27,809	1.4
	Plus 1 per 50 vehicle	20	0.4
	Minimum of 4.		
TOTAL REQUIRED			4
PARKING PROVIDED	1 garage space within each unit		20
HANDICAP REQUIRED			1
HANDICAP PROVIDED			2
LOADING REQUIRED	74' X 10' FOR SELF-STORAGE		2
LOADING PROVIDED			2

NOTE: DRY FLOOD PROOFING IS PROPOSED TO 11.17' NAVD



DESIGN	BAF	5			
		4			
DRAWN	AOM	3			
		2			
CHECKED	BAF	1	6/27/24	City of Marco Comment Letter dated 6/11/24	BAF
D.C.	NO.	DATE	REVISION		APPD BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

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CLIENT: MARCO LUXE LLC
MARCO LUXE
 Collier County, Florida

SITE PLAN

LEGEND
 [Symbol] PROPOSED ASPHALT
 [Symbol] DRY DETENTION
 [Symbol] PROPOSED 4" CONC.
 [Symbol] EXISTING GRADE
 [Symbol] PROPOSED GRADE
 [Symbol] MITERED END SECTION
 [Symbol] CATCH BASIN

PROJ. NO.
 SCALE 1" = 30'
 DATE 4/9/2024
 SHEET 3 OF 8

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PAVING, GRADING AND DRAINAGE NOTES:

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- MIN. FINISHED FLOOR ELEVATIONS SHALL BE AS SHOWN ON THE SITE PLAN.
- SITE IS LOCATED WITHIN THE FLOOD ZONE AE.
- HAY BALES, SILT SCREENS AND OTHER EROSION CONTROL MEASURES SHALL BE UTILIZED TO CONTAIN ALL DISTURBED AREAS IN ACCORDANCE WITH THE EROSION CONTROL DETAILS.
- SILT SCREENS TO BE INSTALLED AROUND PERIMETER OF PROPERTY AND/OR DISTURBED AREAS AND MAINTAINED DURING CONSTRUCTION.
- ALL PROPOSED ON-SITE PAVING SHALL BE ASPHALT, UNLESS OTHERWISE NOTED.
- NOTE: ALL BLDG. PERIMETER WALKS SHALL BE CONCRETE OR PAVED BRICKS.
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- THE FOLLOWING FOOT DETAIL INDEX SHEETS APPLY FOR ALL ROW ITEMS:
 - INDEX NO. 425-052 - DITCH BOTTOM INLETS.
 - INDEX NO. 522-000 - DITCH WARNINGS / SIDEWALK RAMPS
 - INDEX NO. 522-003 - TURNOUTS
 - INDEX NO. 711-001 - SPECIAL MARKING AREAS.

UTILITY NOTES:

- ALL WATER DISTRIBUTION SYSTEM CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH WATER AND SEWER DEPT., MANUAL OF STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL SEWAGE COLLECTION SYSTEM CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH WATER AND SEWER DEPT., MANUAL OF STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL ON SITE WATER AND SEWER IS TO BE OWNED AND MAINTAINED BY THE OWNER, UNLESS OTHERWISE NOTED.
- THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED, THEREFORE THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL UTILITY LINES AND SERVICES DAMAGED DURING CONSTRUCTION, INCLUDING IRRIGATION LINES AND SERVICES.
- APPROPRIATE UTILITY SHALL BE NOTIFIED OF ALL DAMAGED LINES PRIOR TO REPAIR. ALL NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY UPON DAMAGED OF LINE.
- ALL UTILITY CONNECTIONS SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OF EACH INDIVIDUAL UTILITY LINE.
- THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPILL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE ENGINEER OR COUNTY.
- THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OR THE CITY.
- ALL CONDUITS REQUIRED FOR UTILITY INSTALLATIONS SHALL BE INSTALLED PRIOR TO THE STREET/PAVEMENT CONSTRUCTION.
- SITE LIGHTING SHALL BE PROVIDED, AS REQUIRED, BY ARCHITECT.
- ALL SEWER UTILITY CONSTRUCTION TO BE IN ACCORDANCE WITH CITY OF MARCO ISLAND WATER AND SEWER DEPT., MANUAL OF STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL WATER UTILITY CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF MARCO ISLAND UTILITIES SPECIFICATIONS AND STANDARDS MANUAL, LATEST EDITION.
- CITY OF MARCO ISLAND OWNERSHIP & MAINTENANCE RESPONSIBILITIES STOP AT THE PROPERTY SIDE OF THE WATER SERVICE BACKFLOW PREVENTER.
- THE DEVELOPER'S CONTRACTOR TO PROVIDE BOLLARDS TO PROTECT FIRE HYDRANTS, AS NECESSARY.
- THE DEVELOPER'S CONTRACTOR TO PROVIDE A MINIMUM OF 10 FEET SEPARATION DISTANCE BETWEEN WATER SERVICES AND ELECTRICAL BOXES AND STREET LIGHTS.
- ALL COSTS AND EXPENSES OF ANY AND ALL REPAIRS, REPLACEMENTS, MAINTENANCE AND RESTORATIONS OF ABOVEGROUND IMPROVEMENTS PERMITTED WITHIN A CUE SHALL BE THE SOLE FINANCIAL RESPONSIBILITY OF THE GRANTOR, ITS SUCCESSORS OR ASSIGNS.

FIRE:

- A SEPARATE PERMIT IS REQUIRED PRIOR TO INSTALLATION OF ANY FIRE LINE.
- INSTALLATION OF ALL UNDERGROUND FIRE LINES SHALL COMPLY WITH THE 2022 EDITION OF NFPA 24.
- UNDERGROUND FIRE LINES SHALL BE INSTALLED BY AN APPROPRIATELY CERTIFIED SPRINKLER CONTRACTOR OR A TYPE V UNDERGROUND CONTRACTOR AS DEFINED BY AND OUTLINED F.S. 633.102(24)
- PIPING USED FOR FIRE PROTECTION SERVICE THAT IS RUN UNDER DRIVEWAYS SHALL BE BURIED AT A MINIMUM DEPTH OF 36".

NOTE: FIRE HYDRANT MUST BE CLOW MEDALLION

FIRE METER: 6" NEPTUNE C&I MACH 10 R900, 2.0 TO 2,000 US GPM, FIRE FLOW 1,800 US GPM

FIRE FLOW REQUIREMENTS

FBC TYPE IIB, SPRINKLED	FLOW REQUIREMENT	75% RED.	MIN. REQUIREMENT
Building 1: 6,909 SF	1,750 GPM 2 HR	438 GPM	1,000 GPM
Building 2: 13,991 SF	2,500 GPM 2 HR	625 GPM	1,000 GPM
Building 3: 6,909 SF	1,750 GPM 2 HR	438 GPM	1,000 GPM

According to NFPA Table 18.4.5.2.1 Fire Flow Requirement, 75% Reduction Allowed for Sprinkled Buildings OR 1000 GPM Min = **1,000 GPM**

NOTE: SEE CITY OF MARCO ISLAND APPROVED PRODUCTS LIST, APPENDIX I, CITY OF MARCO ISLAND WATER & SEWER DEPARTMENT, MANUAL OF STANDARD AND SPECIFICATION

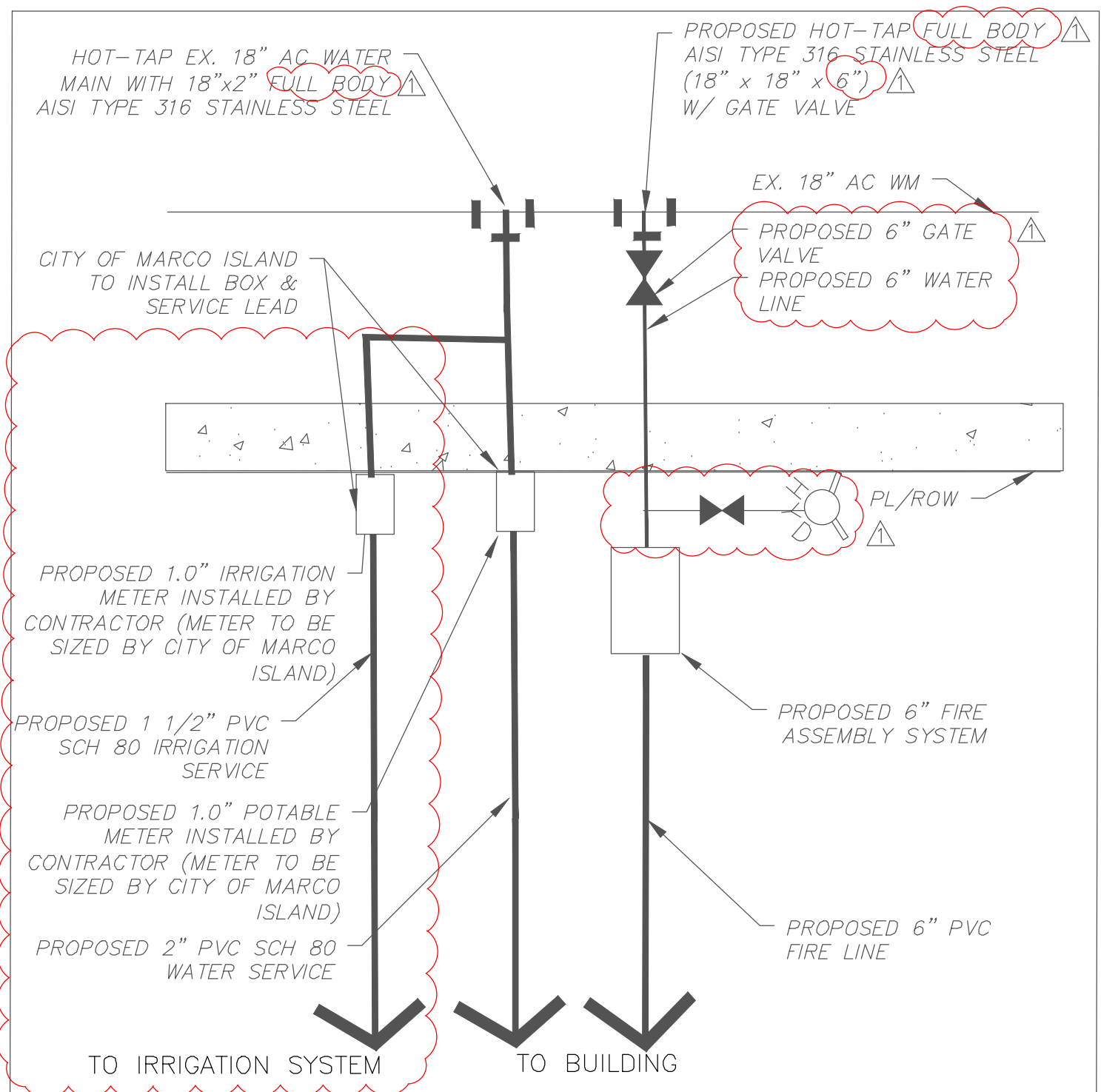
NOTE: POTABLE AND IRRIGATION FLOW METER MANUFACTURER MUST BE "NEPTUNE" R900VI RADIO READ AND RECORD IN GALLONS.

NOTE: BACK FLOW PREVENTION DEVICE MANUFACTURERS MAY BE: AMES/WATTS 400B/919, WATTS 909-009 SERIES, WILKENS 975,

FIRE BFP MAY BE AMES/WATTS C300/M300, WATTS 709, WILKENS 350 OR 450 N-SHAPES. (ALL MUST BE RPZ)

SEE CMI MANUAL OF STANDARDS APPENDIX I-6

NOTE: EXISTING AC WATER MAIN IS +/- 18" OUTSIDE DIAMETER. THE OD IS KNOWN TO VARY. EXCAVATE AND MEASURE THE OD AT THE LOCATION OF THE PROPOSED CONNECTION TO CONFIRM THE CORRECT SIZE FOR THE HOT TAP PARTS.



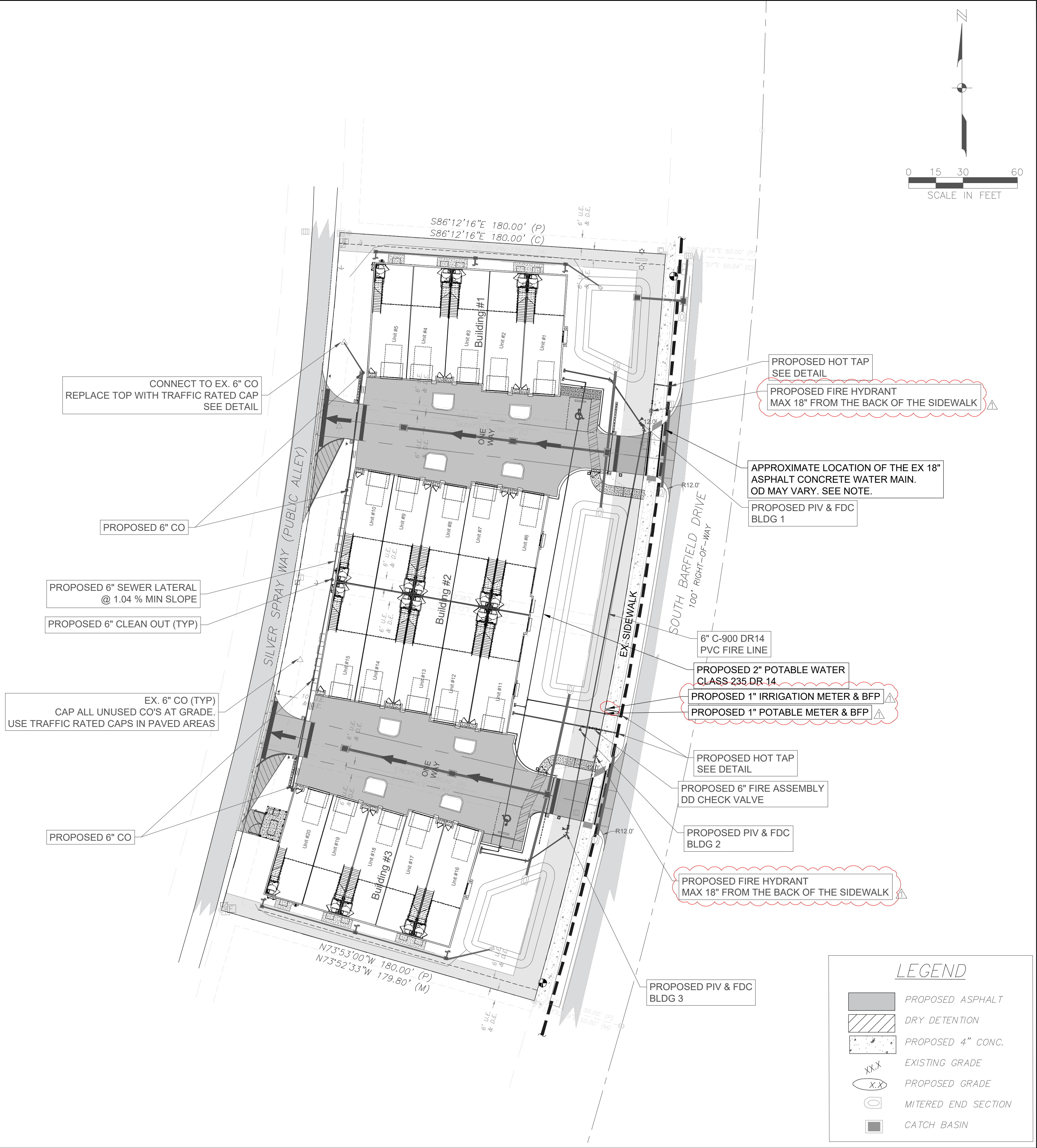
NOTE:

- POINT OF SERVICE IS GATE VALVE AT THE ROW LINE
- THE WATER MAIN IS ASBESTOS CONCRETE, ALL PARTS FOR THIS PIPE ARE SPECIAL MADE UPON REQUEST. IT IS ADVISED TO OBTAIN O.D. OF PIPE THEN PLACE ORDER THEN MAKE SURE THE SAME SPOT IS EXCAVATED OR OD MAY CHANGE DURING TRANSITION TO NEXT PIPE JOINT.

HOT-TAP WATER / METER CONNECTION DETAIL nts

NOTE: LATERALS SHALL HAVE A MINIMUM DEPTH OF 30" AND A MAXIMUM DEPTH OF 48" BELOW FINISHED GRADE. IN LOCATIONS WHERE A MINIMUM DEPTH OF 30" CANNOT BE PROVIDED, LATERALS SHALL BE C900, DR 14 PVC PIPE. AT NO TIME SHALL THE DEPTH OF A LATERAL BE LESS THAN 24".

ADDITIONALLY, SEWER LATERALS SHOULD HAVE 30" (MIN.) TO 48" (MAX.) COVER AT THE CLEANOUT PER SECTION 3.1.4 OF OUR DESIGN CRITERIA AND AS SHOWN IN DETAIL WW-10.



DESIGN	BAF	5			
DRAWN	AOM	3			
CHECKED	BAF	2			
D.C.	NO.	DATE	REVISION	APPRO BY	
	1	6/27/24	City of Marco Comment Letter dated 6/11/24	BAF	

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

Blair A. Foley, P.E., LLC
 Civil Engineer / Development Consultant
 120 Edgemere Way South - Naples, FL 34105
 Phone (239) 263-1222 Cell (239) 289-4900 Fax (239) 263-0472 E-mail fols00@aol.com

CLIENT: MARCO LUXE LLC
MARCO LUXE
 Collier County, Florida

UTILITY PLAN

SCALE 1" = 30'

DATE 4/9/2024

SHT 4 OF 8

CERT. OF AUTHORIZATION

Blair A. Foley, P.E.
 No. 53756
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

GENERAL NOTES

- ELEVATIONS ARE REFERENCED TO NAVD OF 1988.
- CURRENT ZONING FOR THIS PARCEL IS C-3.
- THE REVIEW AND APPROVAL OF IMPROVEMENT PLANS DOES NOT AUTHORIZED THE CONSTRUCTION OF REQUIRED IMPROVEMENTS WHICH ARE INCONSISTENT WITH EXISTING EASEMENTS OF RECORD.
- HANDICAP PARKING AND ACCESSIBILITY SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF FLORIDA REQUIREMENTS OR THE AMERICANS WITH DISABILITY ACT (ADA) WHICHEVER IS MORE STRINGENT.
- ALL DRIVEWAYS, LANDSCAPING, SIGNS, GRASS, ETC. SHALL BE RESTORED TO A CONDITION EQUIVALENT TO PRE CONSTRUCTION CONDITION UNLESS OTHERWISE APPROVED BY THE ENGINEER AND COUNTY.
- REQUESTS FOR INSPECTIONS SHALL BE PROVIDED TO CITY OF MARCO ISLAND STAFF AT LEAST FORTY EIGHT (48) HOURS PRIOR TO THE REQUESTED INSPECTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE COUNTY AND ALL UTILITY COMPANIES IN THE AREA 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION, AND SHALL HAVE ALL EXISTING UTILITY LINES (SPRINT, FPL, WATER, CABLE, SANITARY, SEWER, IRRIGATION, FORCE MAIN & ANY OTHERS) LOCATED AND FLAGGED PRIOR TO ANY EXCAVATION.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THE APPROVED PLANS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL PROMPTLY REPORT ALL FIELD CHANGES TO THE ENGINEER.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ALL EXISTING CONFLICTS TO DESIGN PLANS (I.E. POLES, BOXES, VALVES ETC.) AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY REQUIRED PLAN DEVIATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES AS A RESULT OF ALL CONFLICTS NOT SATISFACTORILY RESOLVED. ENGINEER IS NOT LIABLE FOR ANY CONFLICT SHOWN OR OMITTED FROM THIS PLAN OR SURVEY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT SITE. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FLORIDA MANUAL OF TRAFFIC AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS.
- ALL DISTURBED PERVIOUS AREAS NOT LANDSCAPED SHALL BE SODDED AND/OR SEEDED AND MULCHED AS DIRECTED BY THE OWNER OR ENGINEER.
- DIMENSIONS WHICH REFERENCE CURBING ARE SHOWN TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION METHODS AND MATERIALS TO CITY OF MARCO ISLAND LAND DEVELOPMENT CODE AND F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION.
- SEE CLEARING PLAN FOR LIMITS OF CLEARING.
- THE PROPERTY OWNER IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL FEATURES OF THE INFRASTRUCTURE, OPEN SPACES, & PAVED AREAS ON THEIR PROPERTY.
- FINAL RESTORATION UPON REMOVAL OF TEMPORARY CONSTRUCTION ENTRANCE. UPON COMPLETION OF THE PROJECT, THE TEMPORARY CONSTRUCTION ENTRANCE AND ASSOCIATED IMPROVEMENTS SHALL BE REMOVED AND THE RIGHT-OF-WAY, INCLUDING GROUND COVER SHALL BE RESTORED.

LANDSCAPING

- ALL EXOTIC VEGETATION AS DEFINED BY THE CITY OF MARCO ISLAND L.D.C. SHALL BE REMOVED FROM THE SITE AND SUBSEQUENT ANNUAL EXOTIC REMOVAL (IN PERPETUITY) SHALL BE THE RESPONSIBILITY OF THE OWNER.
- THE PROPERTY OWNER IS RESPONSIBLE FOR REPLACEMENT OF ALL DEAD LANDSCAPE MATERIAL AND FOR THE MAINTENANCE OF THE REQUIRED IRRIGATION SYSTEM.
- CONTRACTOR SHALL REMOVE LIMBROCK WITHIN LANDSCAPE ISLANDS LOCATED WITHIN AND ADJACENT TO THE PARKING AREAS. THESE AREAS SHALL FILLED WITH CLEAN DIRT OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.

PAVING, GRADING AND DRAINAGE NOTES:

- THE PROPERTY OWNER IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL FEATURES OF THE SURFACE WATER MANAGEMENT SYSTEM AS OUTLINED BY THE DESIGN ENGINEER ON THESE DRAWINGS.
- ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.
- MIN. FINISHED FLOOR ELEVATIONS SHALL BE AS SHOWN ON THE SITE PLAN.
- SITE IS LOCATED WITHIN THE FLOOD ZONE AE.
- HAY BALES, SILT SCREENS AND OTHER EROSION CONTROL MEASURES SHALL BE UTILIZED TO CONTAIN ALL DISTURBED AREAS IN ACCORDANCE WITH THE EROSION CONTROL DETAILS.
- SILT SCREENS TO BE INSTALLED AROUND PERIMETER OF PROPERTY AND/OR DISTURBED AREAS AND MAINTAINED DURING CONSTRUCTION.
- ALL PROPOSED ON-SITE PAVING SHALL BE ASPHALT, UNLESS OTHERWISE NOTED.
- NOTE: ALL BLDG. PERIMETER WALKS SHALL BE CONCRETE OR PAVER BRICKS.
- A CITY OF MARCO ISLAND PERMIT TO PERFORM WORK AND/ OR MAINTENANCE IN THE PUBLIC RIGHT OF WAY IS REQUIRED FOR WORK WITHIN S. BARFIELD DR. AND SILVER SPRAY WAY.
- THE FOLLOWING "DOT" DETAIL "MEASUREMENTS" APPLY FOR ALL "ROW" ITEMS:
INDEX NO. 425-052 = DITCH BOTTOM INLETS,
INDEX NO. 522-002 = DETECTABLE WARNINGS / SIDEWALK RAMPS
INDEX NO. 522-003 = TURNOUTS
INDEX NO. 711-001 = SPECIAL MARKING AREAS.

UTILITY NOTES:

- ALL WATER DISTRIBUTION SYSTEM CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH APPLICABLE CITY OF MARCO ISLAND UTILITIES SPECIFICATIONS.
- ALL SEWAGE COLLECTION SYSTEM CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH APPLICABLE CITY OF MARCO ISLAND UTILITIES SPECIFICATIONS.
- ALL ON-SITE WATER AND SEWER IS TO BE OWNED AND MAINTAINED BY THE OWNER, UNLESS OTHERWISE NOTED.
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- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL UTILITY LINES AND SERVICES DAMAGED DURING CONSTRUCTION, INCLUDING IRRIGATION LINES AND SERVICES. THE APPROPRIATE UTILITY SHALL BE NOTIFIED OF ALL DAMAGED LINES PRIOR TO REPAIR. ALL NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY UPON DAMAGED OR LINE.
- ALL UTILITY CONNECTIONS SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OF EACH INDIVIDUAL UTILITY LINE.
- THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE ENGINEER OR COUNTY.
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- SITE LIGHTING SHALL BE PROVIDED, AS REQUIRED, BY ARCHITECT.
- ALL SEWER UTILITY CONSTRUCTION TO BE IN ACCORDANCE WITH CITY OF MARCO ISLAND PUBLIC UTILITIES DIVISION SPECIFICATIONS, LATEST EDITION.
- ALL WATER UTILITY CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF MARCO ISLAND UTILITIES SPECIFICATIONS AND STANDARDS MANUAL, LATEST EDITION.
- CITY OF MARCO ISLAND OWNERSHIP & MAINTENANCE RESPONSIBILITIES STOP AT THE PROPERTY SIDE OF THE WATER SERVICE BACKFLOW PREVENTER.
- THE DEVELOPER'S CONTRACTOR TO PROVIDE BOLLARDS TO PROTECT FIRE HYDRANTS, AS NECESSARY.
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FIRE:

- A SEPARATE PERMIT IS REQUIRED PRIOR TO INSTALLATION OF ANY FIRE LINE.
- INSTALLATION OF ALL UNDERGROUND FIRE LINES SHALL COMPLY WITH THE 2022 EDITION OF NFPA 24.
- UNDERGROUND FIRE LINES SHALL BE INSTALLED BY AN APPROPRIATELY CERTIFIED SPRINKLER CONTRACTOR OR A TYPE V UNDERGROUND CONTRACTOR AS DEFINED BY AND OUTLINED F.S. 633.102(24).
- PIPING USED FOR FIRE PROTECTION SERVICE THAT IS RUN UNDER DRIVEWAYS SHALL BE BURIED AT A MINIMUM DEPTH OF 36".

SITE SUMMARY TABLE				
TOTAL SITE			1.64	AC
PROPOSED SITE SUMMARY				
BUILDING FOOTPRINT	27,900	SF	0.64	AC 39.1%
SIDEWALK/CONCRETE	1,780	SF	0.04	AC 2.5%
PAVEMENT (VUA)	18,900	SF	0.43	AC 26.5%
IMPERVIOUS SUBTOTAL	48,580	SF	1.12	AC 68.0%
OPEN SPACE:				
GREEN SPACE	16,493	SF	0.38	AC 23.1%
DRY DETENTION	6,365	SF	0.15	AC 8.9%
PERVIOUS SUBTOTAL	22,858	SF	0.52	AC 32.0%
TOTAL	71,438	SF	1.64	AC 100%

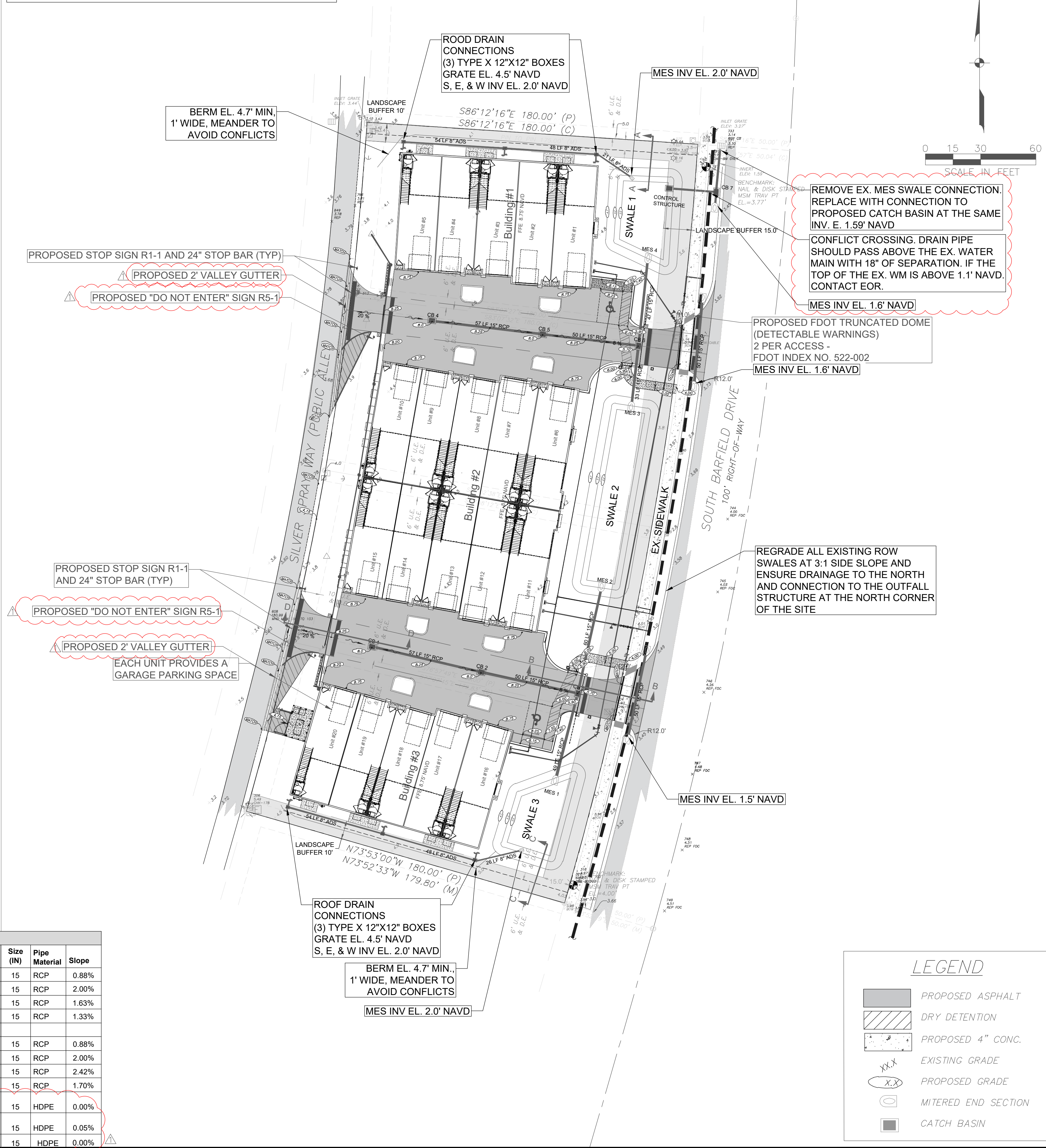
WATER MANAGEMENT SUMMARY	
SFWMD Permit No. (N/A, no existing ERP)	
NGVD - 1.31' = NAVD	
10-YEAR, 1-DAY RAINFALL (in)	7.2
25-YEAR, 3-DAY RAINFALL (in)	12.50
100-YEAR, 3-DAY RAINFALL (in)	16.00
PEAK 10-YEAR, 1-DAY STORM STAGE (FT-NAVD)	4.15
PEAK 25-YEAR, 3-DAY STORM STAGE (FT-NAVD)	4.61
PEAK 100-YEAR, 3-DAY ZERO DISCHARGE STORM STAGE (FT-NAVD)	7.12
FEMA BFE (FT-NAVD) ZONE AE	10.00
PROPOSED DESIGN CONDITIONS:	
FFE (FT NAVD)	8.75
FLOOD PROOFING (FT NAVD)	11.17
MIN PARKING LOT EL. (FT-NAVD)	4.15
MIN BERM (FT-NAVD)	4.70
MIN ROAD (FT-NAVD)	5.70
ON-SITE CONTROL ELEVATION (FT-NAVD)	1.20

WATER QUALITY DETENTION VOLUME REQUIRED			
Basin Area =	1.64	ac	
First one (1) inch of runoff over basin:	1" * 1.64 ac x 1/12" =	0.14	ac ft
2.5 Inches Times the Percentage of Imperviousness:			
Site Area for Water Quality Treatment = Basin Area - Roof =	1.00	ac	
Impervious Area for W.Q. Treatment = Site Area for W.Q. - Total Pervious Area =	0.47	ac	
Percent Impervious = Impervious Area/Site Area =	47.50	%	
Volume to be Treated = 2.5" x Percent Impervious x Basin Area =	0.16	ac ft	
2.5 Inches Times the Percentage of Imperviousness Governs:			
25% reduction for using Dry Detention =	0.12	ac ft	
150% increase for discharge to Impaired Waters =	0.18	ac ft	

WATER QUALITY VOLUME PROVIDED			
Pipe Storage			
251 LF	8 in	Volume =	88 CF
403 LF	15 in	Volume =	495 CF
		Total Pipe Volume =	582 CF
Swale Storage			
		Swale 1 Volume =	3360 CF
		Swale 2 Volume =	5820 CF
		Swale 3 Volume =	3450 CF
		Swale Volume from 2.2' to 4.7' =	12,630 CF
		Total Volume =	13,212 CF
			0.30 AC FT
Water Quality Detention occurs at		3.1'	FT

DRAINAGE TABLE											
From	Structure Description	Invert El. (NAVD)	Grate El. (NAVD)	To	Structure Description	Invert El. (NAVD)	Grate El. (NAVD)	Length (FT)	Size (IN)	Pipe Material	Slope
CB 1	TYPE "C" BOX	5.0	8.0	CB 2	TYPE "C" BOX	4.5	8.0	57	15	RCP	0.88%
CB 2	TYPE "C" BOX	4.0	8.0	CB 3	TYPE "C" BOX	3.0	5.7	50	15	RCP	2.00%
CB 3	TYPE "C" BOX	3.0	5.7	MES 1	MITERED END	2.2		49	15	RCP	1.63%
CB 3	TYPE "C" BOX	3.0	5.7	MES 2	MITERED END	2.2		60	15	RCP	1.33%
CB 4	TYPE "C" BOX	5.0	8.0	CB 5	TYPE "C" BOX	4.5	8.0	57	15	RCP	0.88%
CB 5	TYPE "C" BOX	4.0	8.0	CB 6	TYPE "C" BOX	3.0	5.7	50	15	RCP	2.00%
CB 6	TYPE "C" BOX	3.0	5.7	MES 3	MITERED END	2.2		33	15	RCP	2.42%
CB 6	TYPE "C" BOX	3.0	5.7	MES 4	MITERED END	2.2		47	15	RCP	1.70%
CONTROL STRUCTURE	TYPE "C" BOX-CONT. STRUCTURE	1.6	4.0	CB 7	TYPE "C" BOX	1.6		22	15	HDPE	0.00%
CB 7	TYPE "C" BOX	1.6	3.3	EX. OUTFALL	TYPE "C" BOX	1.6	3.27	22	15	HDPE	0.05%
CB 7	TYPE "C" BOX	1.6	3.3	MES	MITERED END	1.6		9	15	HDPE	0.00%

NOTE: DRY FLOOD PROOFING IS PROPOSED TO 11.17' NAVD



LEGEND

- PROPOSED ASPHALT
- DRY DETENTION
- PROPOSED 4" CONC.
- EXISTING GRADE
- PROPOSED GRADE
- MITERED END SECTION
- CATCH BASIN

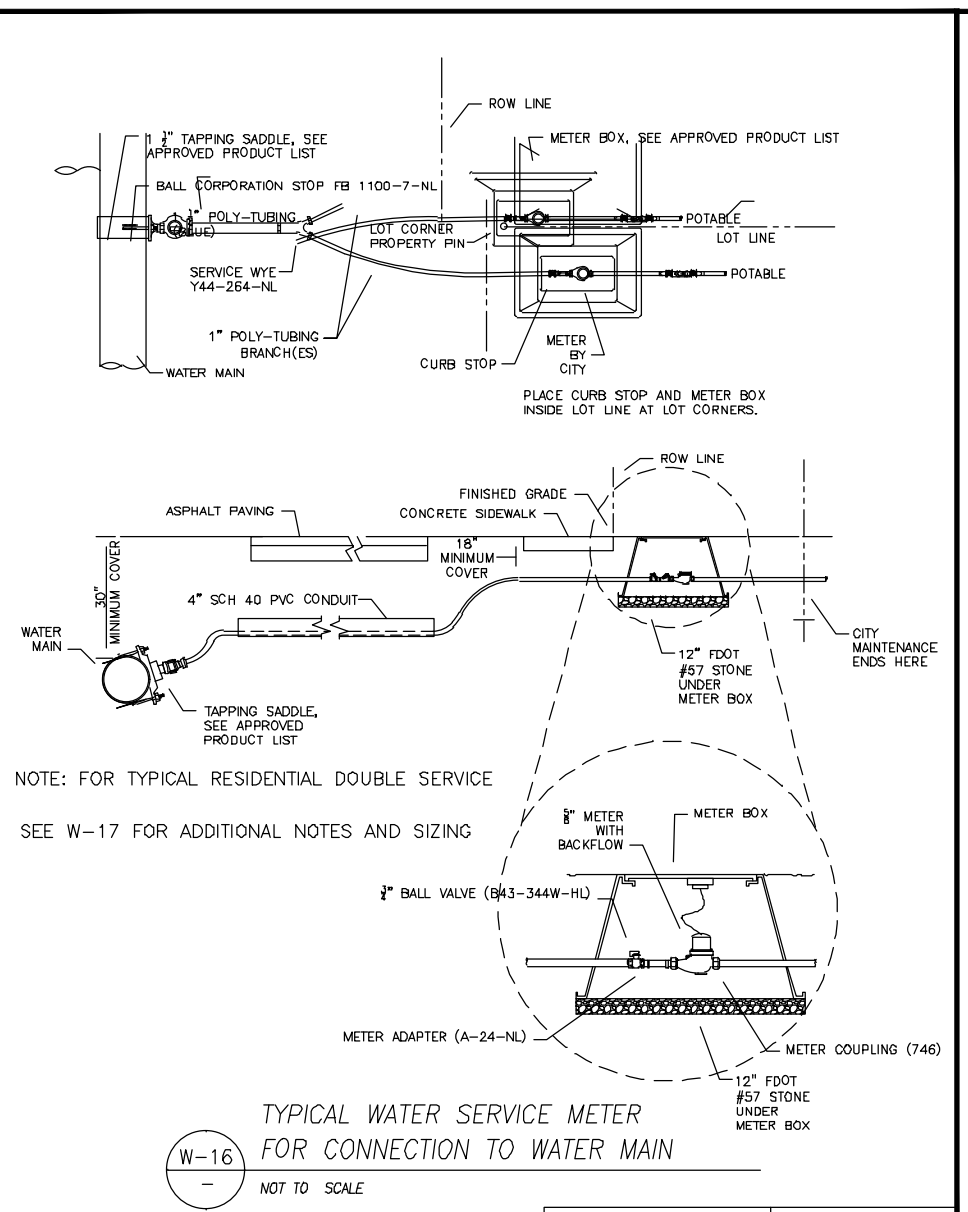
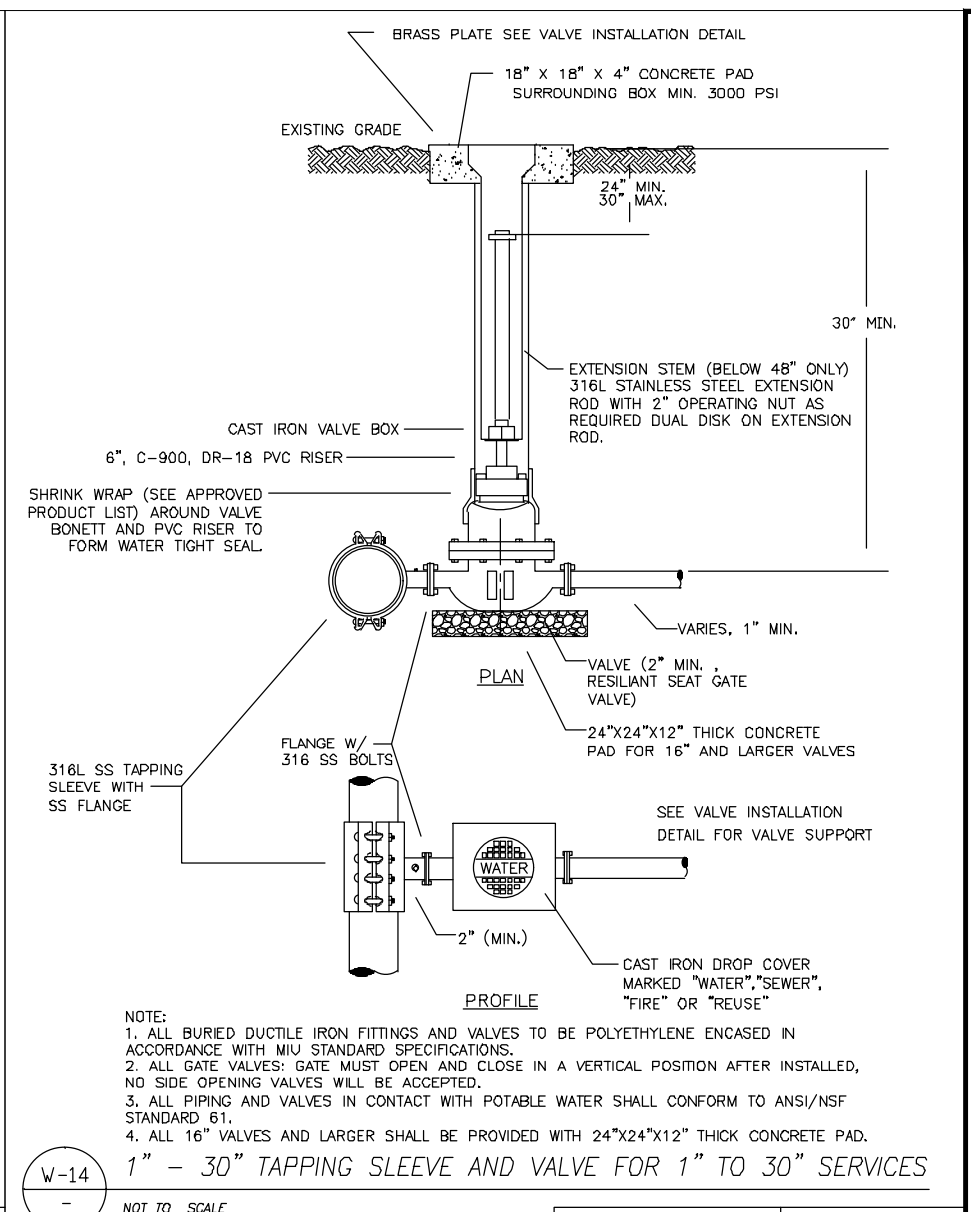
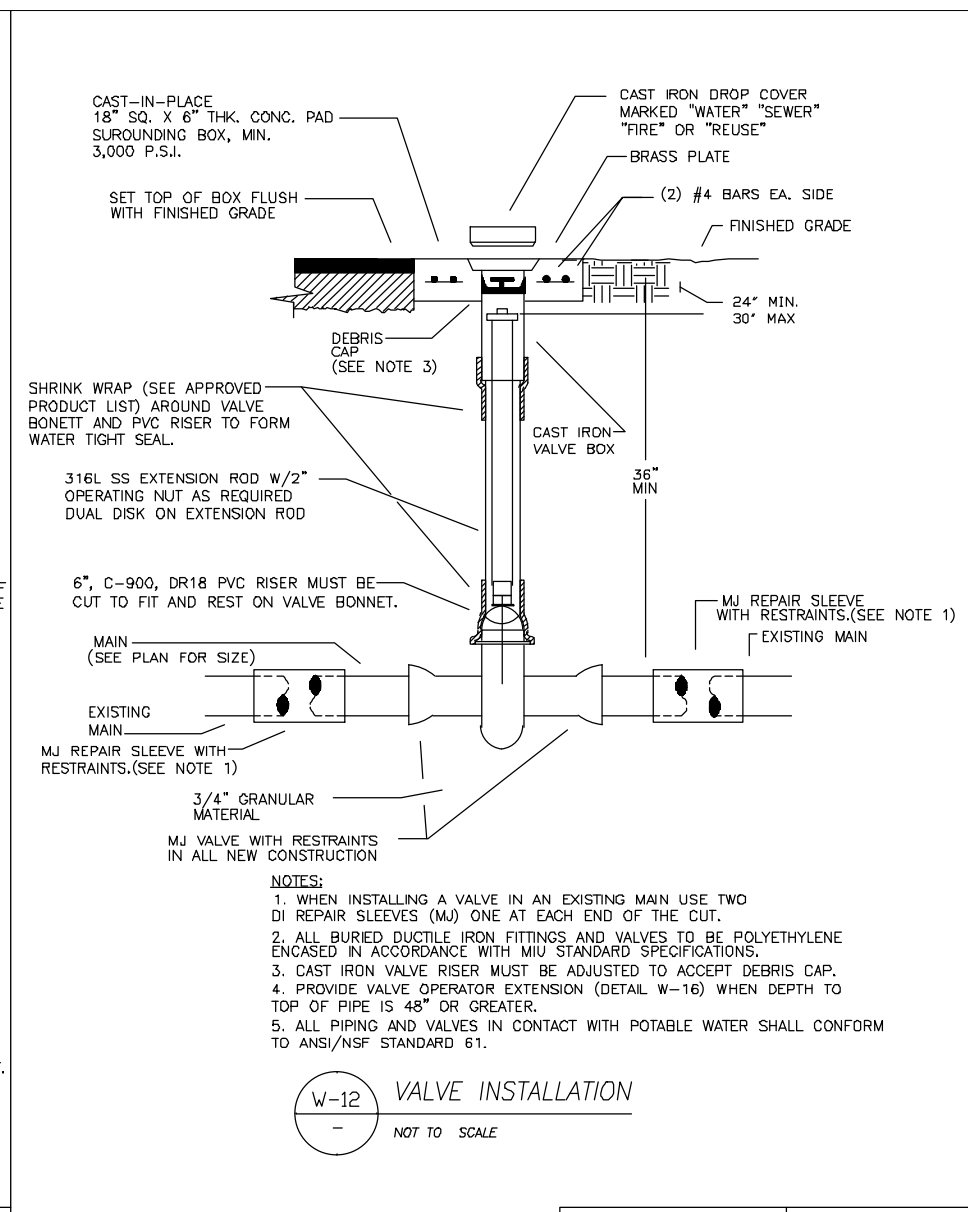
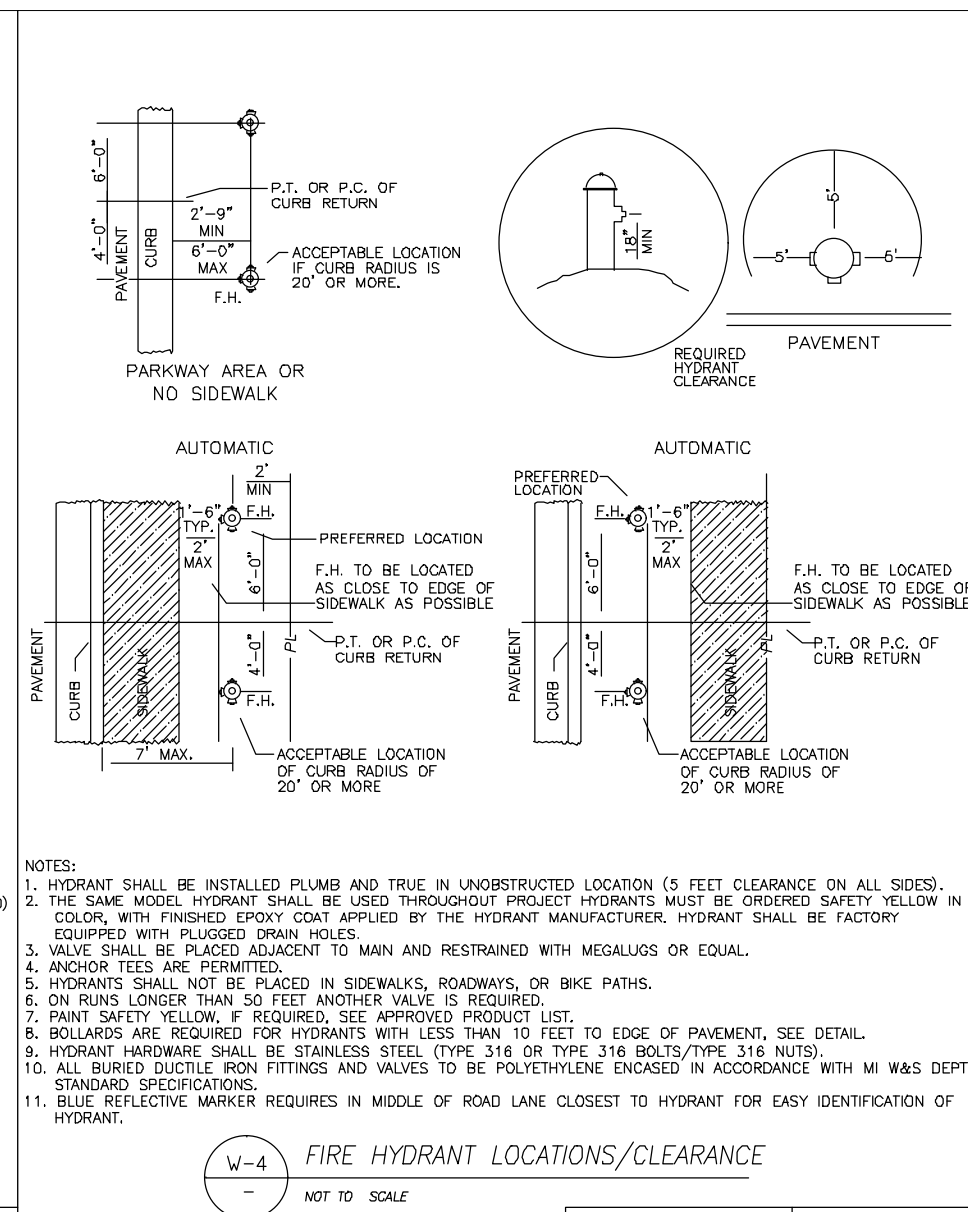
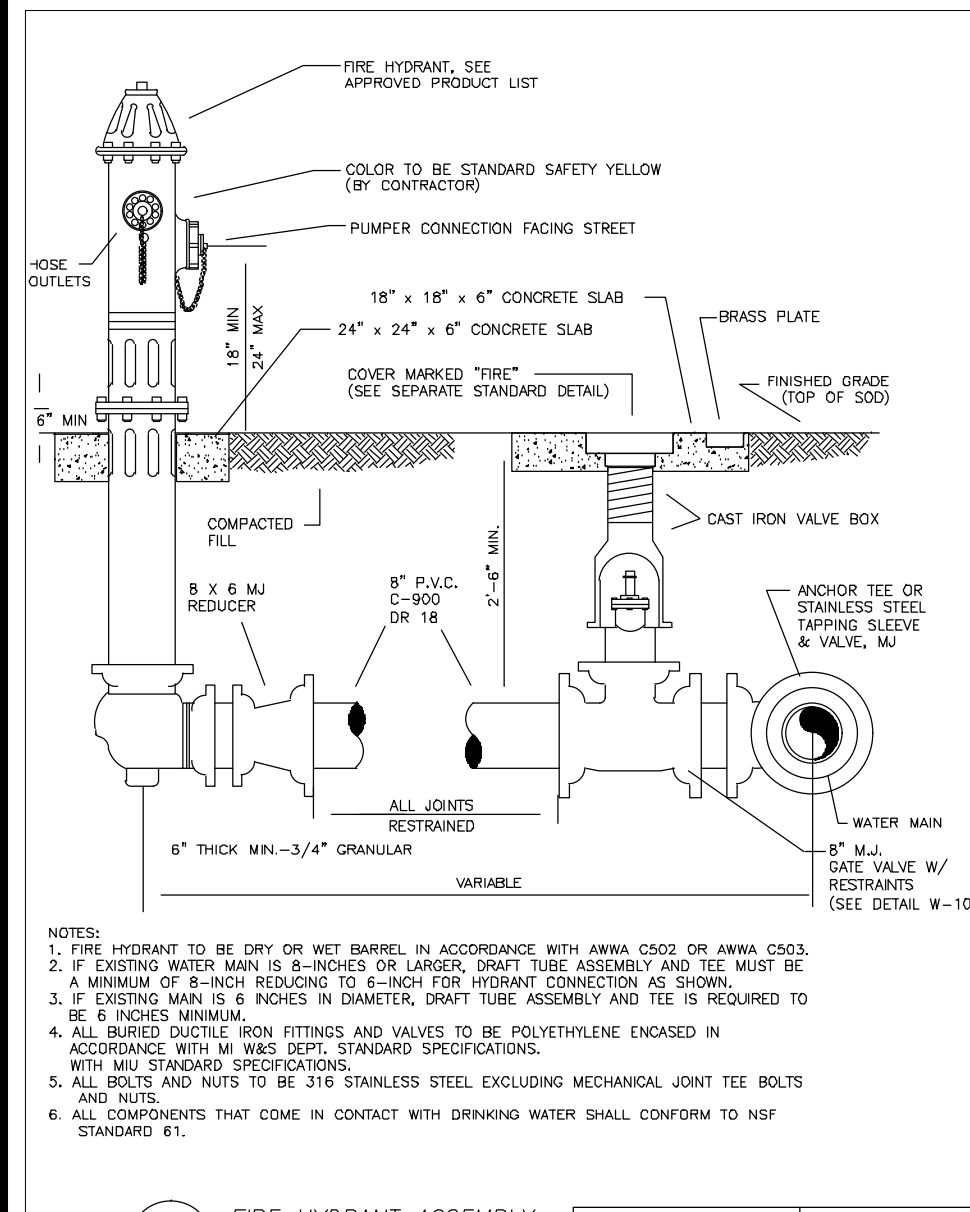
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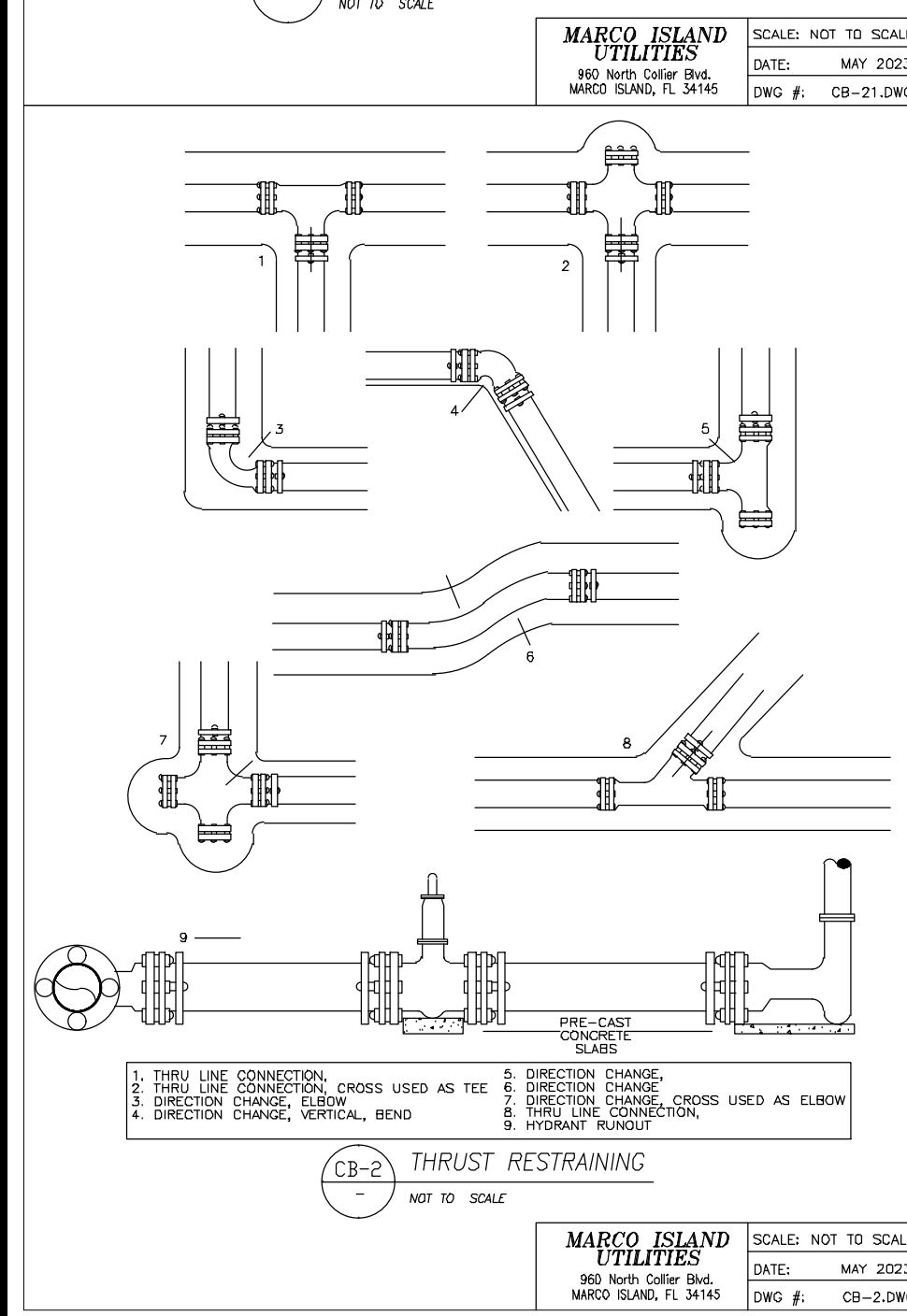
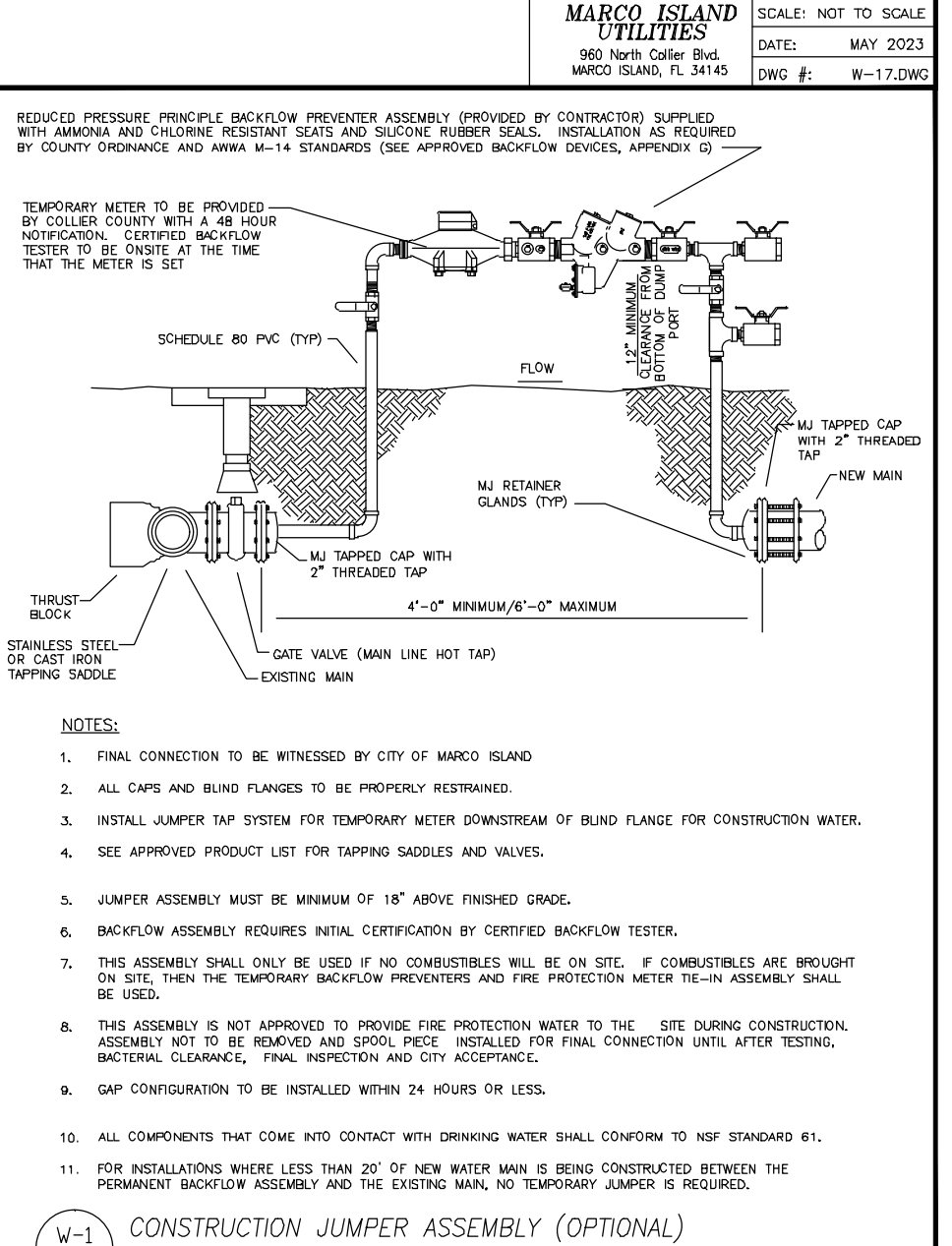
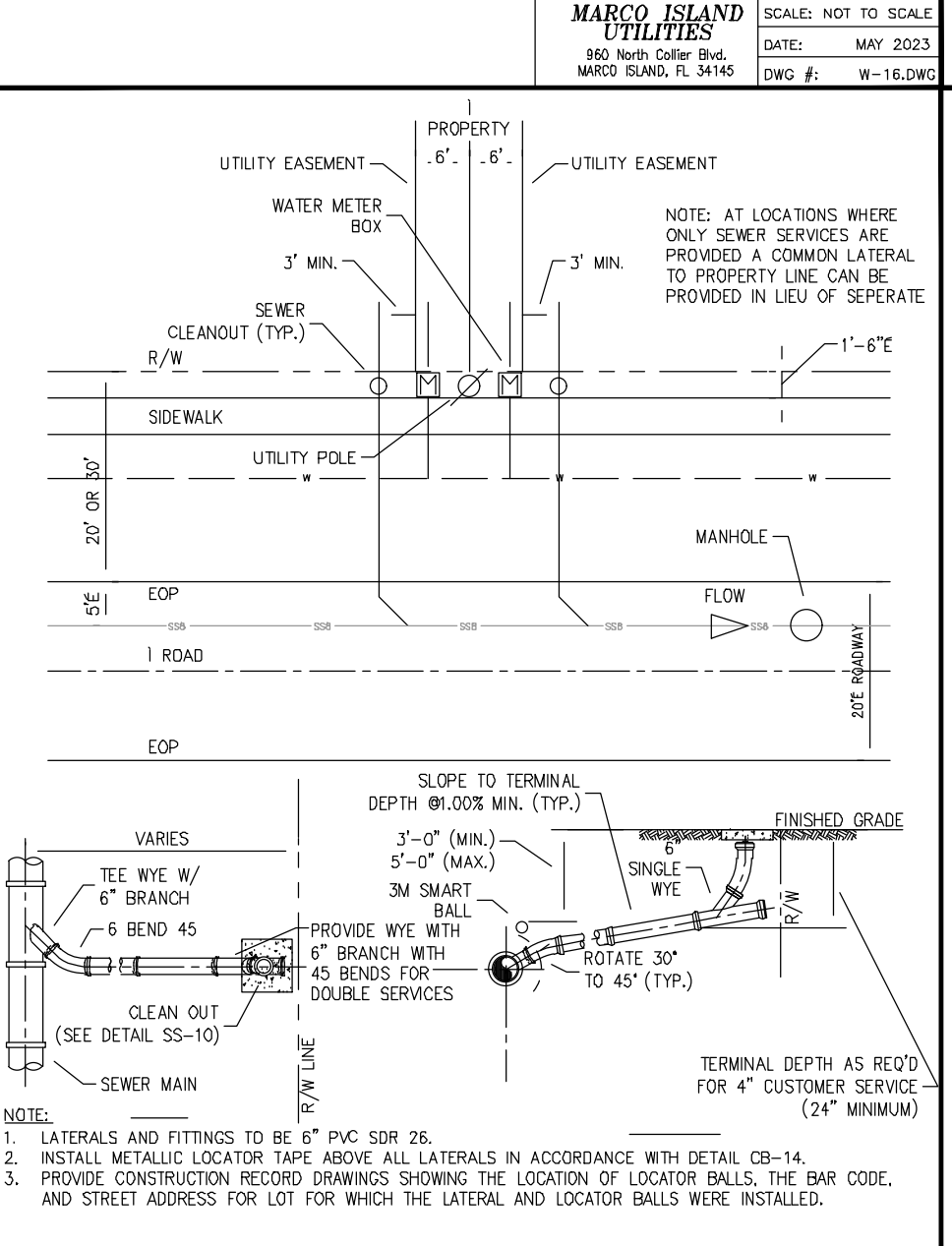
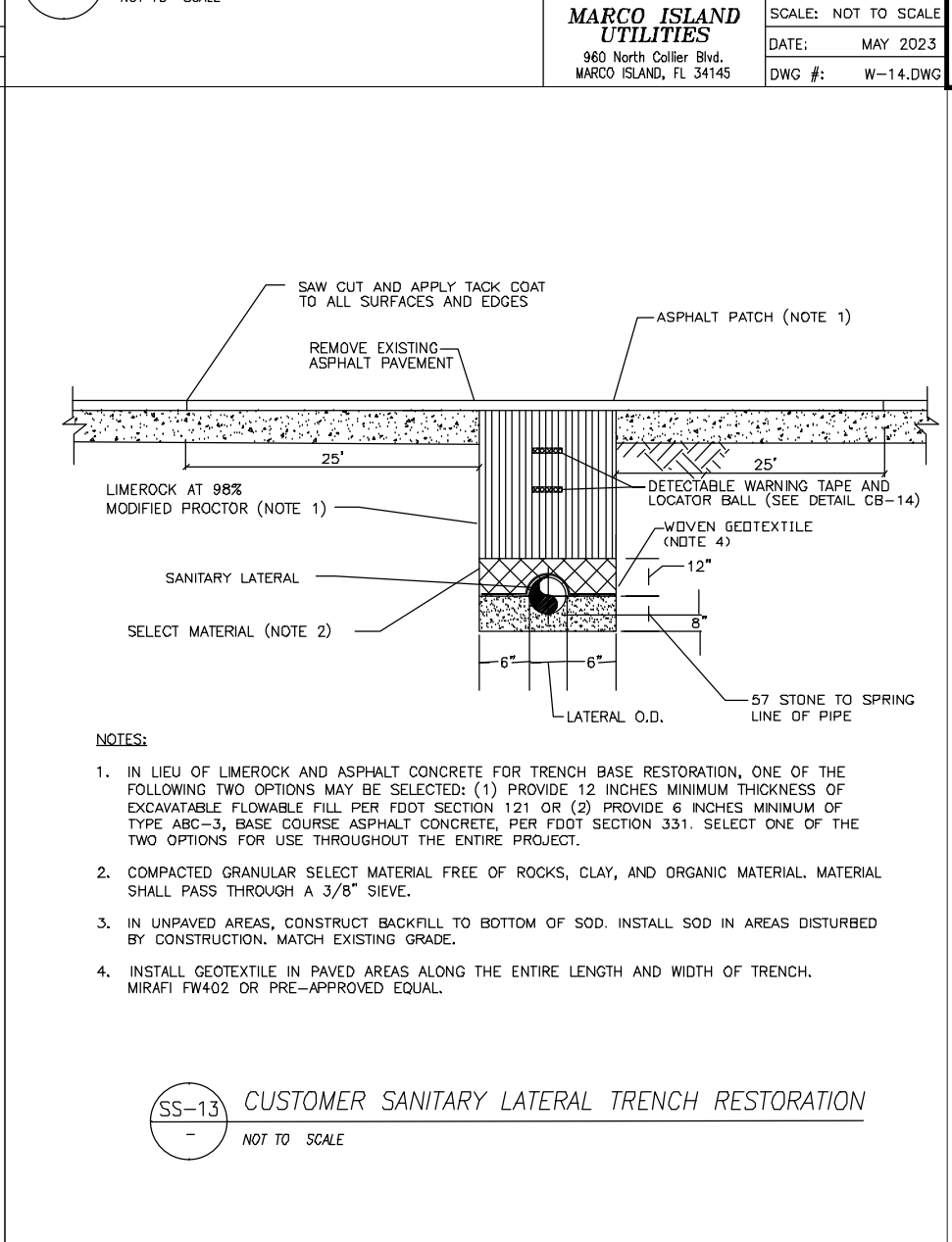
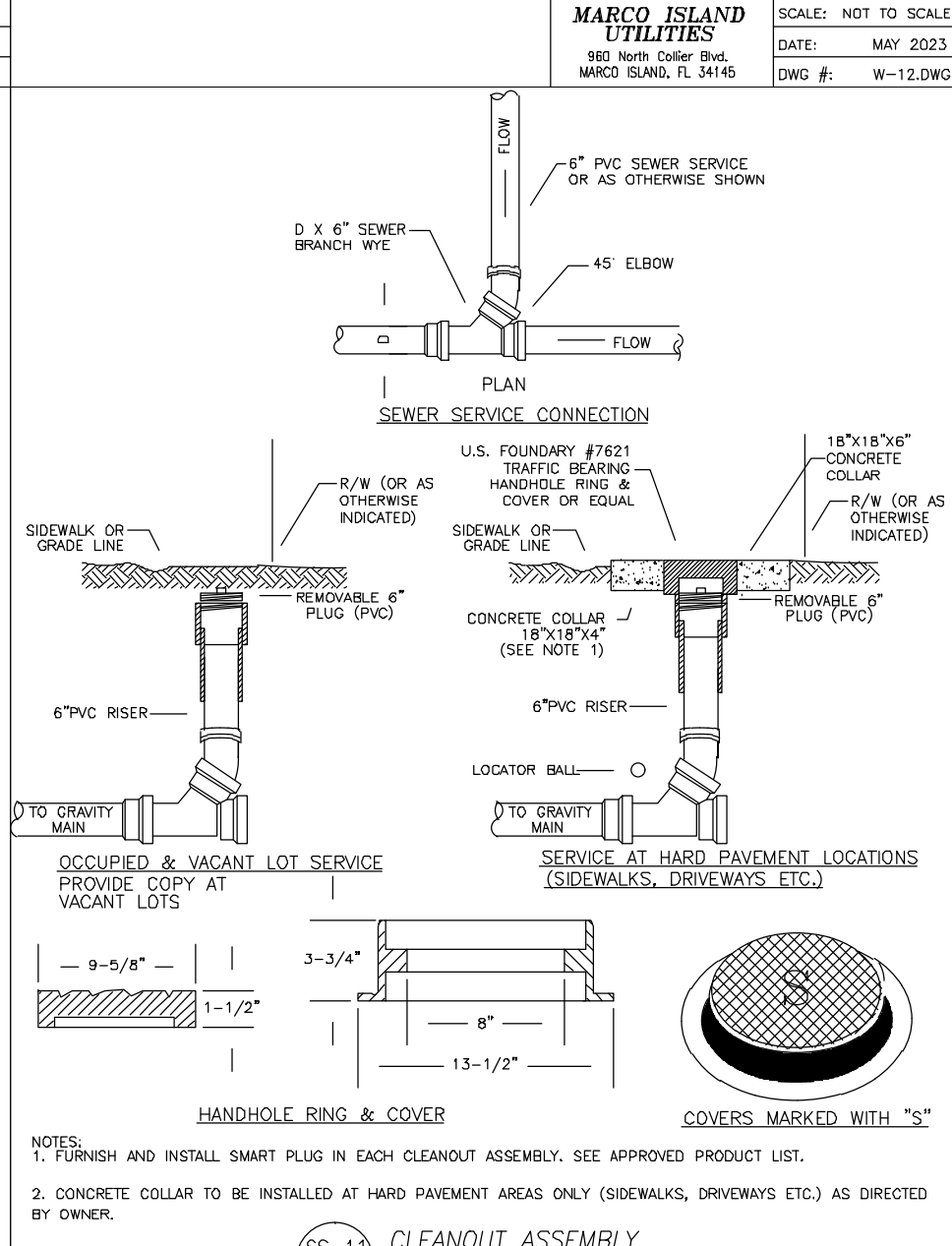
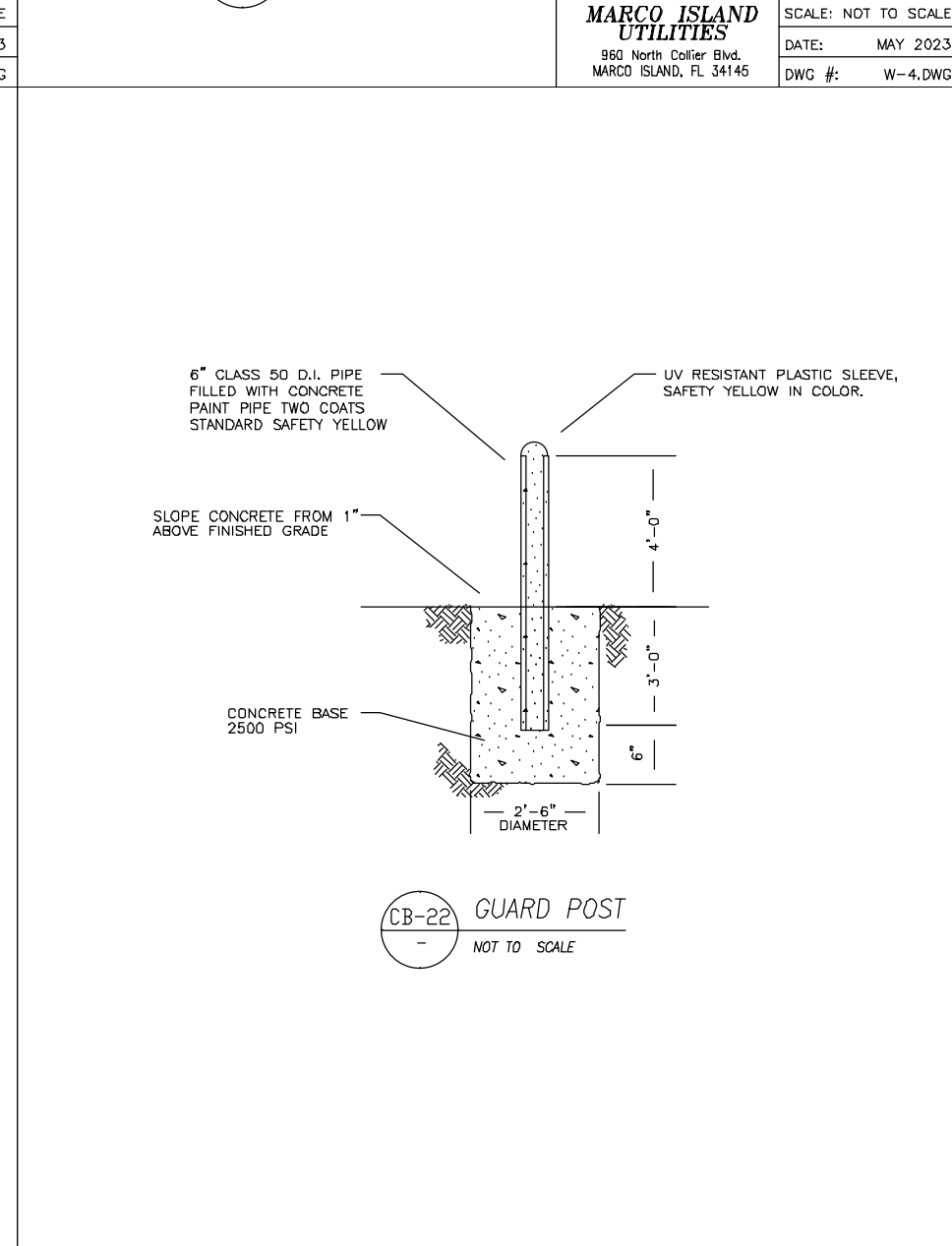
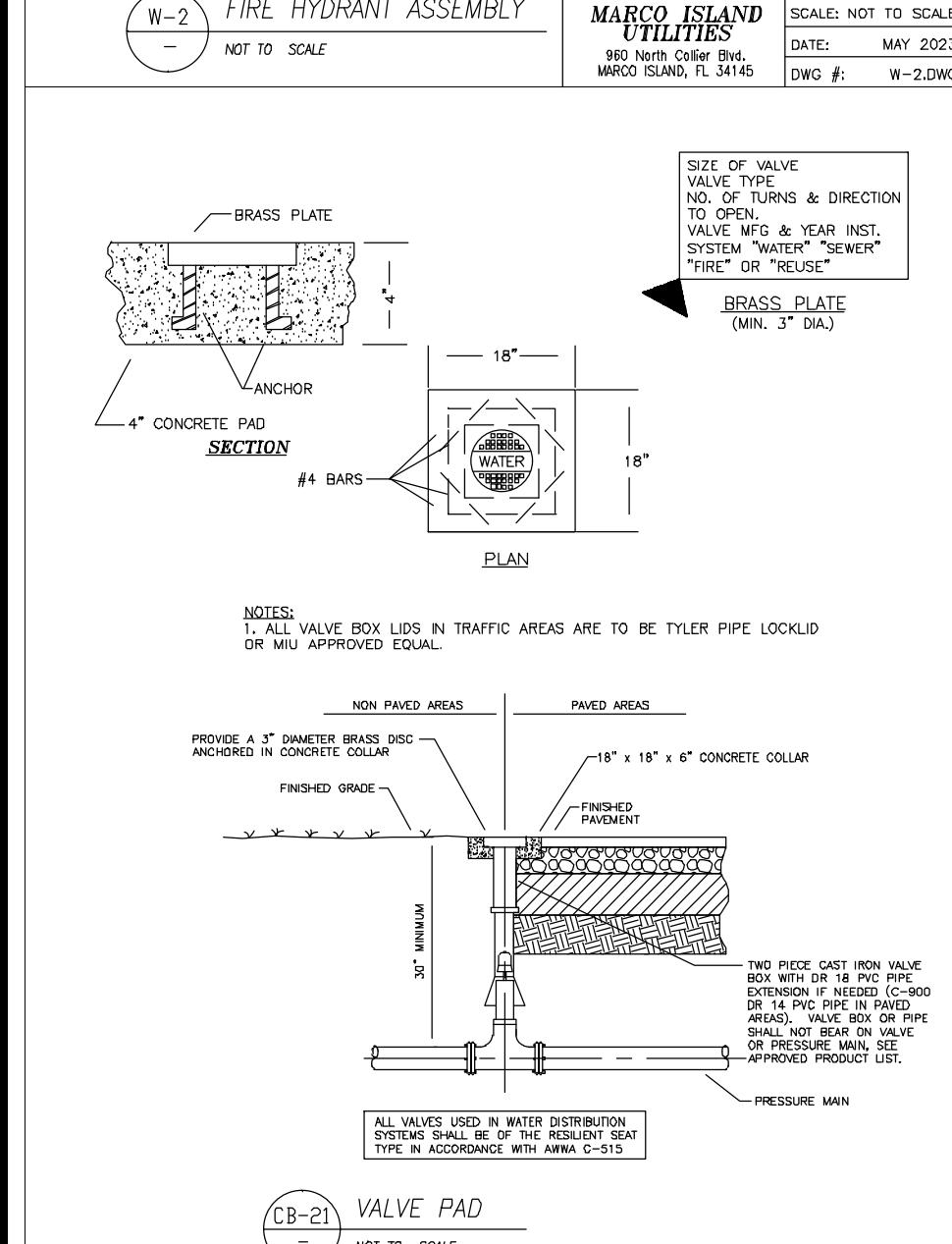
CLIENT: MARCO LUXE LLC
MARCO LUXE
 Collier County, Florida

PAVING, GRADING AND DRAINAGE PLAN
 SCALE 1" = 30'
 DATE 4/9/2024
 SHEET 5 OF 8

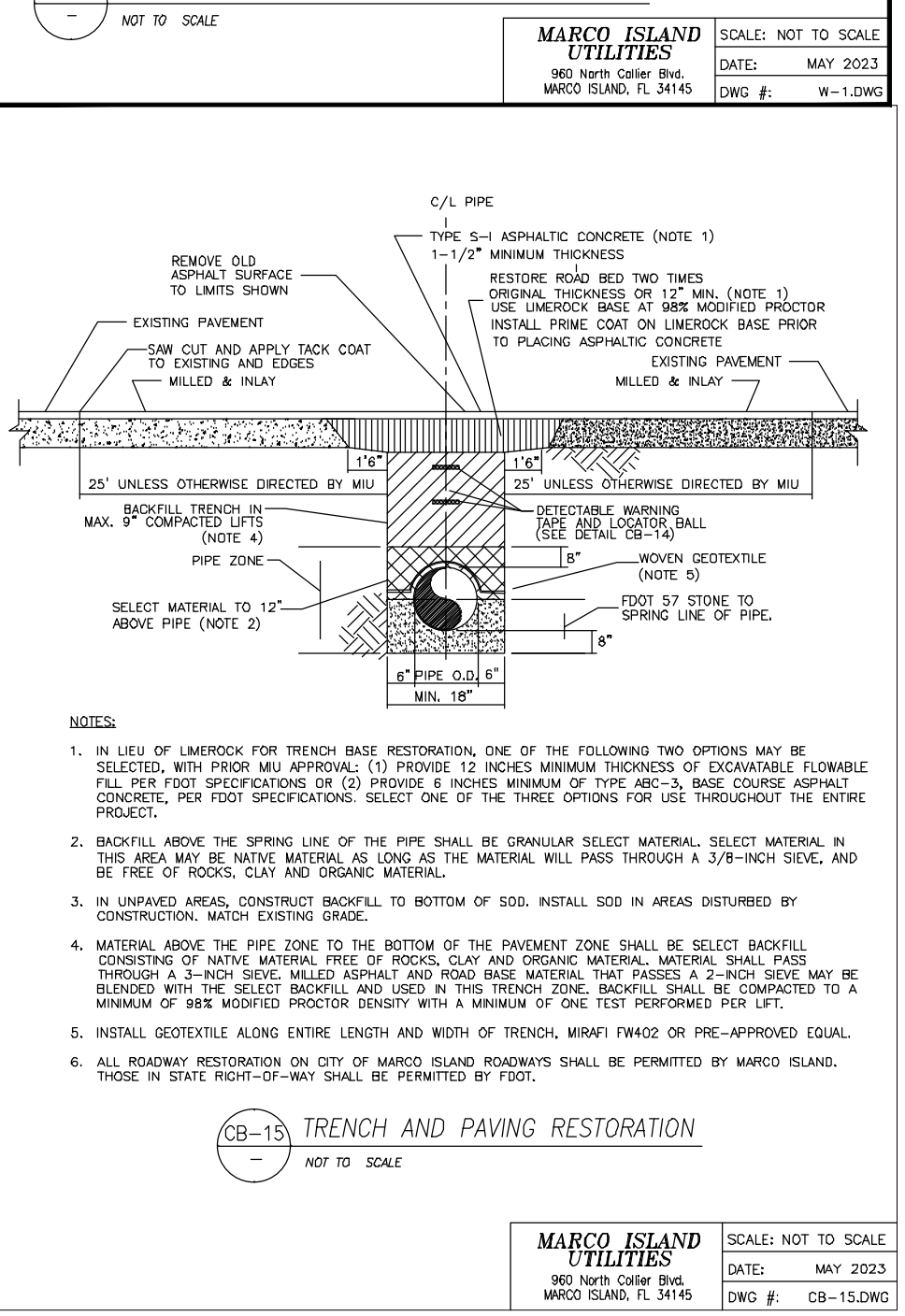
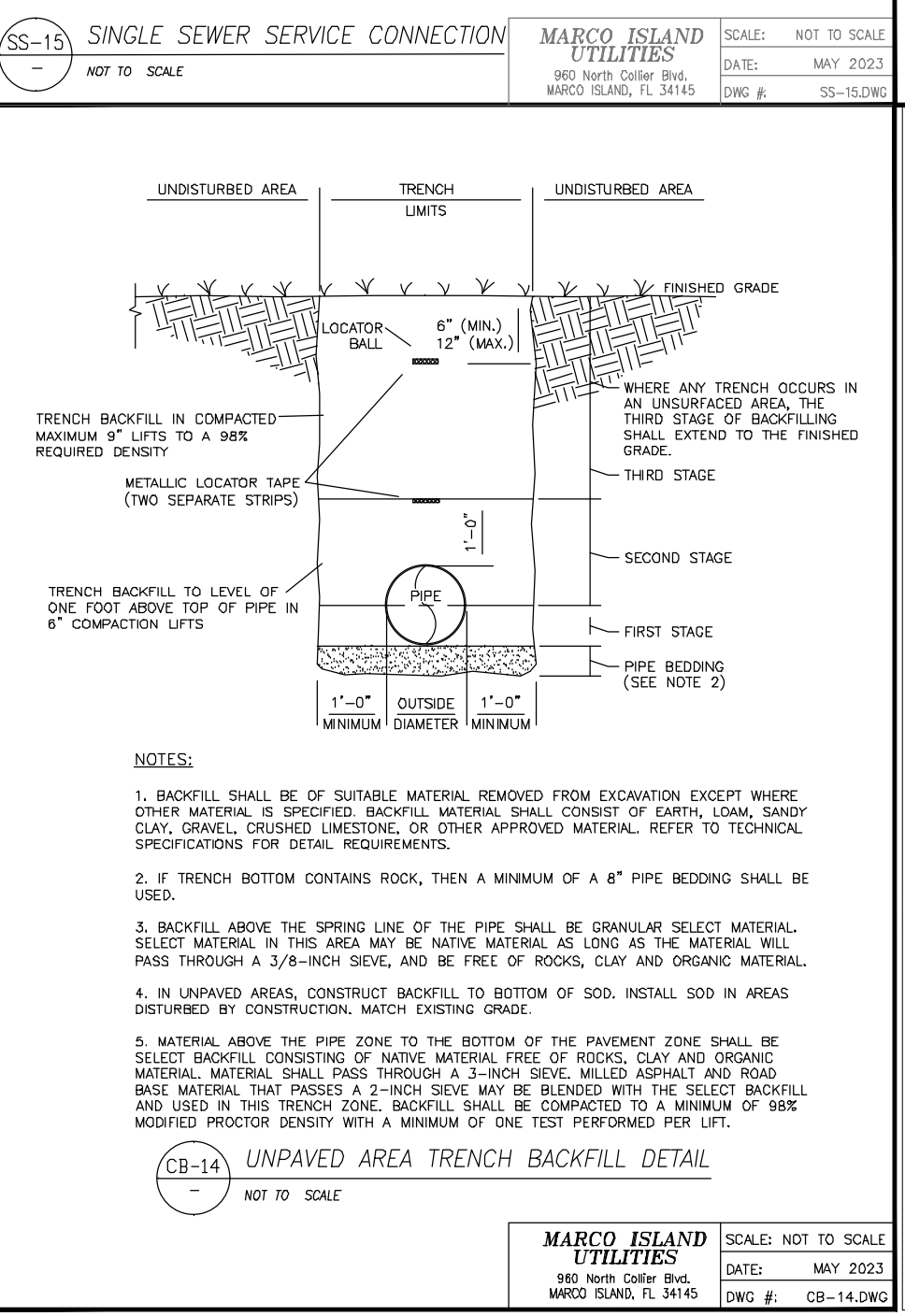
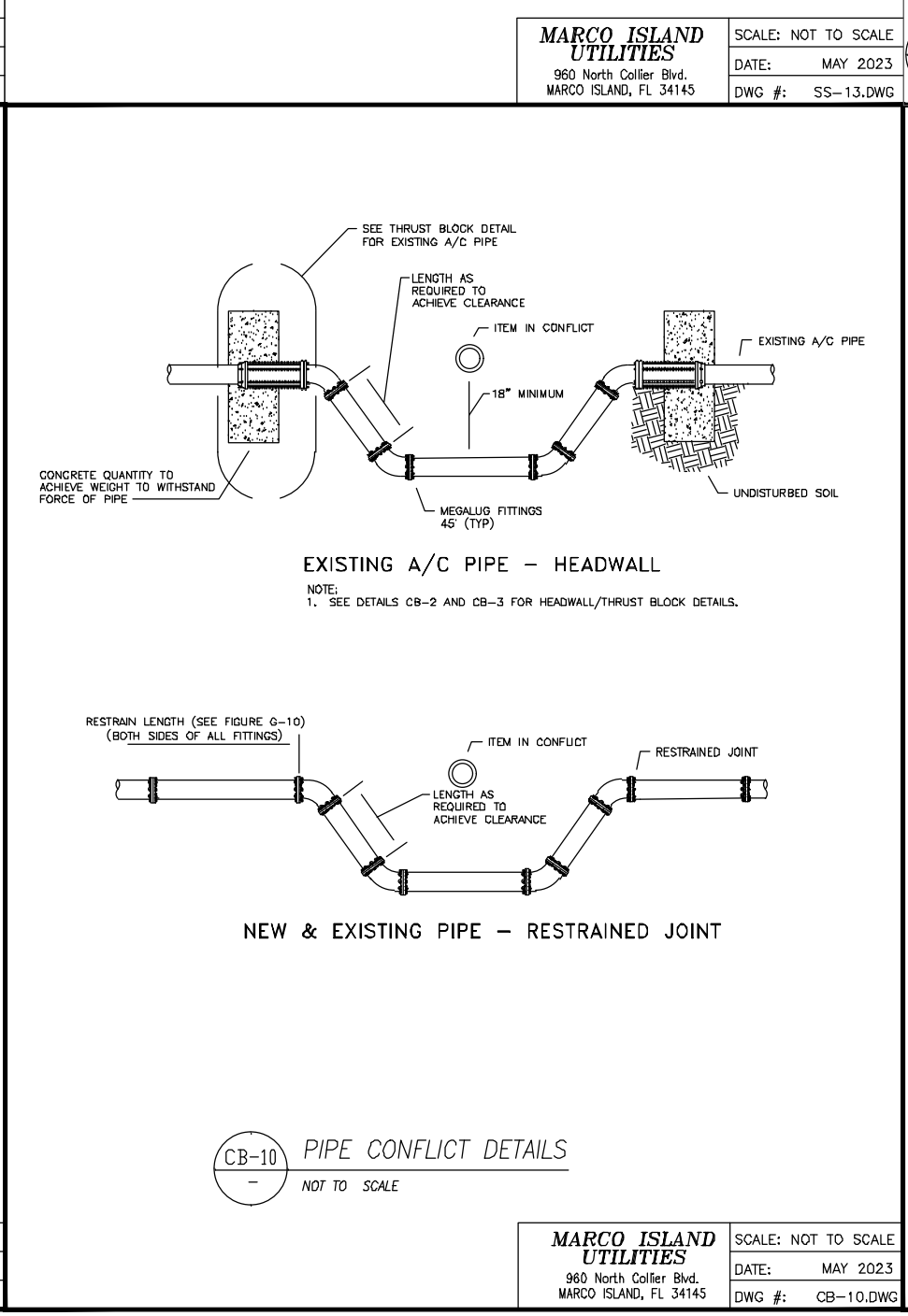
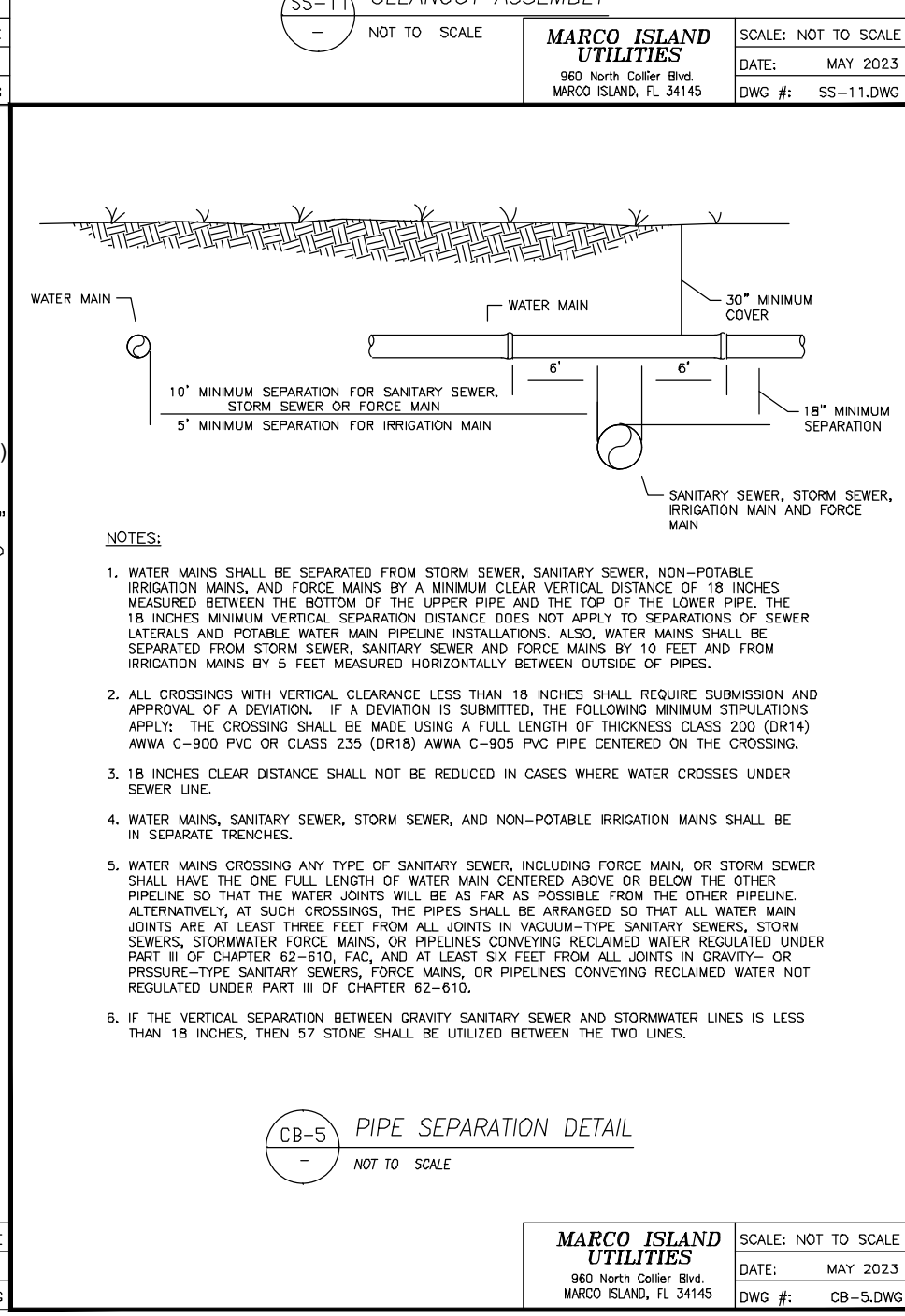
CERT. OF AUTHORIZATION
 BLAIR A. FOLEY
 P.E. NO. 53756
 STATE OF FLORIDA
 REGISTERED PROFESSIONAL ENGINEER



SINGLE SERVICE	CONNECTION TO MAIN	DOUBLE SERVICE	CONNECTION TO MAIN	BRANCH SIZE
2" METER	1-1/2"	(2) 2" METERS	1-1/2"	1"
1" METER	1-1/2"	(2) 1" METERS	1-1/2"	1"
1-1/2" METER	1-1/2"			
2" METER	2"			



PIPE DIA (IN)	BEARING AREA "A" (SQ FT)	VERTICAL THRUST BLOCK VOL. OF CONCRETE (CY)
8	1.9	1.0
10	3.3	1.7
12	5.4	2.5
14	8.1	3.5
16	11.3	4.8
18	15.0	6.4
20	19.3	8.3
24	30.8	14.2



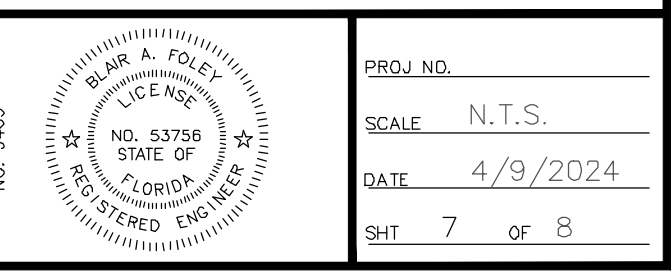
DESIGN	BAF	5
DRAWN	AOM	4
CHECKED	BAF	3
		2
		1

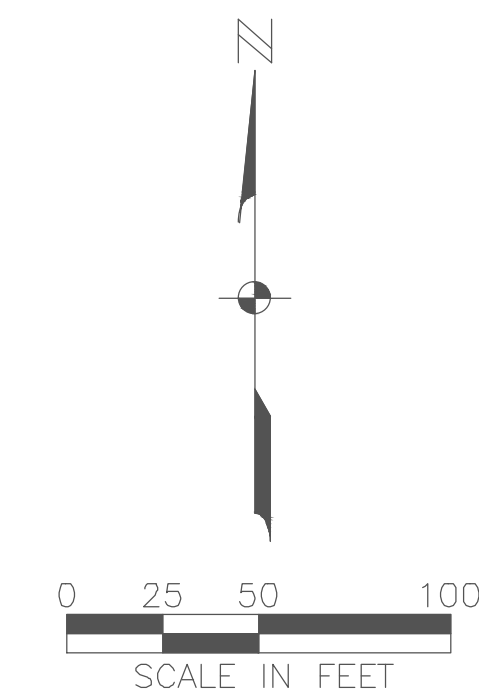
NO.	DATE	REVISION	APP'D BY

Blair A. Foley, P.E., LLC
 Civil Engineer / Development Consultant
 120 Edgewater Way South - Naples, FL 34105
 Phone (239) 263-1222 Cell (239) 289-4900 Fax (239) 263-0472 E-mail fols000@aol.com

CLIENT: MARCO LUXE LLC
MARCO LUXE
 Collier County, Florida

DETAILS
 SCALE: N.T.S.
 DATE: 4/9/2024
 SHEET: 7 of 8

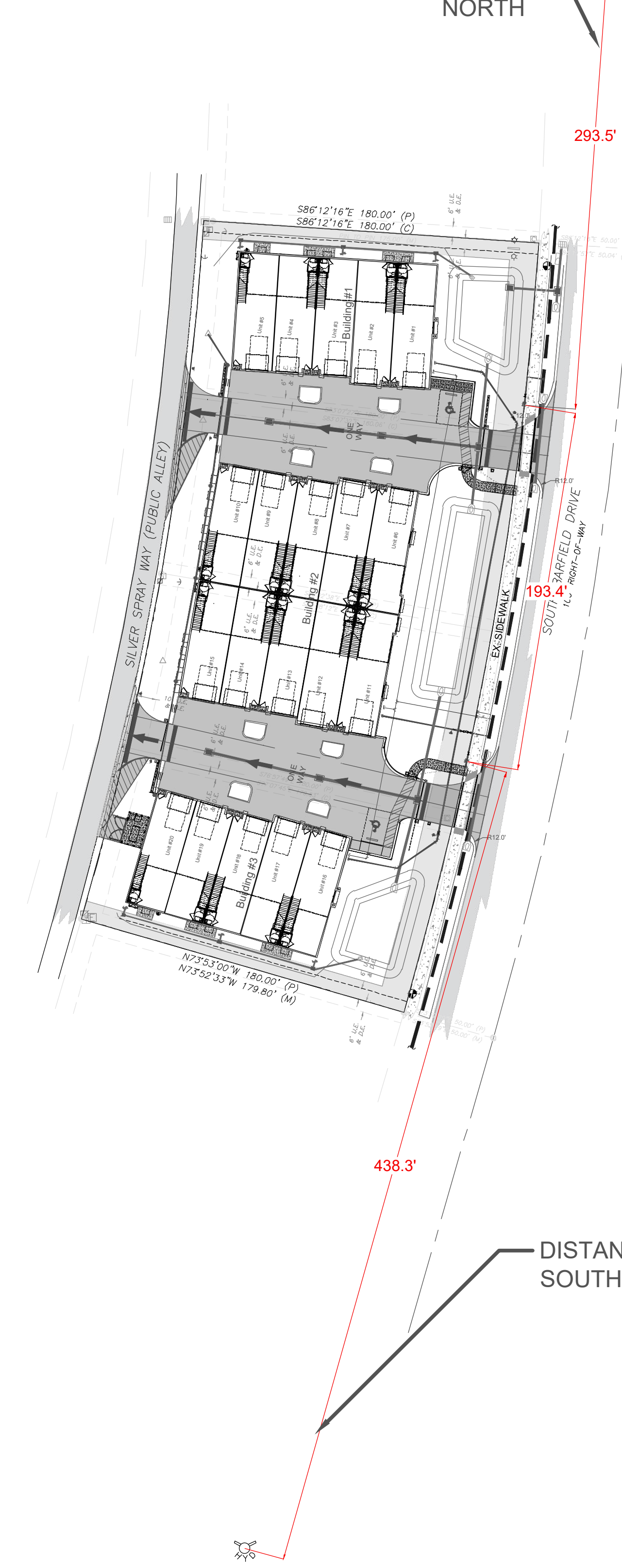




AUTOTURN SWEEP PATH ANALYSIS
FOR THE PIERCE QUANTUM 105'
AERIAL TRUCK
DRIVEWAY ADAPTION FOR LEFT TURN



DISTANCE TO NEAREST OFFSITE HYDRANT
NORTH



DISTANCE TO NEAREST OFFSITE HYDRANT
SOUTH

NOTE: FIRE HYDRANT MUST BE CLOW MEDALLION
FIRE METER: 6" NEPTUNE C&I MACH 10 R900, 2.0 TO 2,000 US GPM, FIRE FLOW 1,800 US GPM

FIRE FLOW REQUIREMENTS
FBC TYPE IIB, SPRINKLED

	FLOW REQUIREMENT	75% RED.	MIN. REQUIREMENT
Building 1: 6,909 SF	1,750 GPM 2 HR	438 GPM	1,000 GPM
Building 2: 13,991 SF	2,500 GPM 2 HR	625 GPM	1,000 GPM
Building 3: 6,909 SF	1,750 GPM 2 HR	438 GPM	1,000 GPM

According to NFPA Table 18.4.5.2.1 Fire Flow Requirement,
75% Reduction Allowed for Sprinkled Buildings OR 1000 GPM Min = **1,000 GPM**

LEGEND

- PROPOSED ASPHALT
- DRY DETENTION
- PROPOSED 4" CONC.
- EXISTING GRADE
- PROPOSED GRADE
- MITERED END SECTION
- CATCH BASIN

DESIGN	BAF	5			
DRAWN	AOM	4			
CHECKED	BAF	3			
		2			
		1	6/27/24	City of Marco Comment Letter dated 6/11/24	BAF
G.C.					
		NO.	DATE	REVISION	APPD BY

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED IN THIS BLOCK

Blair A. Foley, P.E., LLC
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CLIENT: MARCO LUXE LLC
MARCO LUXE
Collier County, Florida

FIRE PLAN

PROJ. NO. _____
SCALE: SEE BAR SCALE
DATE: 6/24/2024
SHT 8 OF 8