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B

A

POTABLE WATER
ORANGE COUNTY UTILITIES
9150 CURRY FORD ROAD
ORLANDO, FL 32825
PHONE: 407-423-9618
CONTACT: DAVID SHORETTE

SANITARY SEWER
CITY OF ORLANDO
102 N. ALASKA AVENUE
KISSIMMEE, FL 34741
PHONE: 407-246-9018



REGAL MARINE EXPANSION

Belle Isle, Florida
CONSTRUCTION SET
SEPTEMBER, 2022

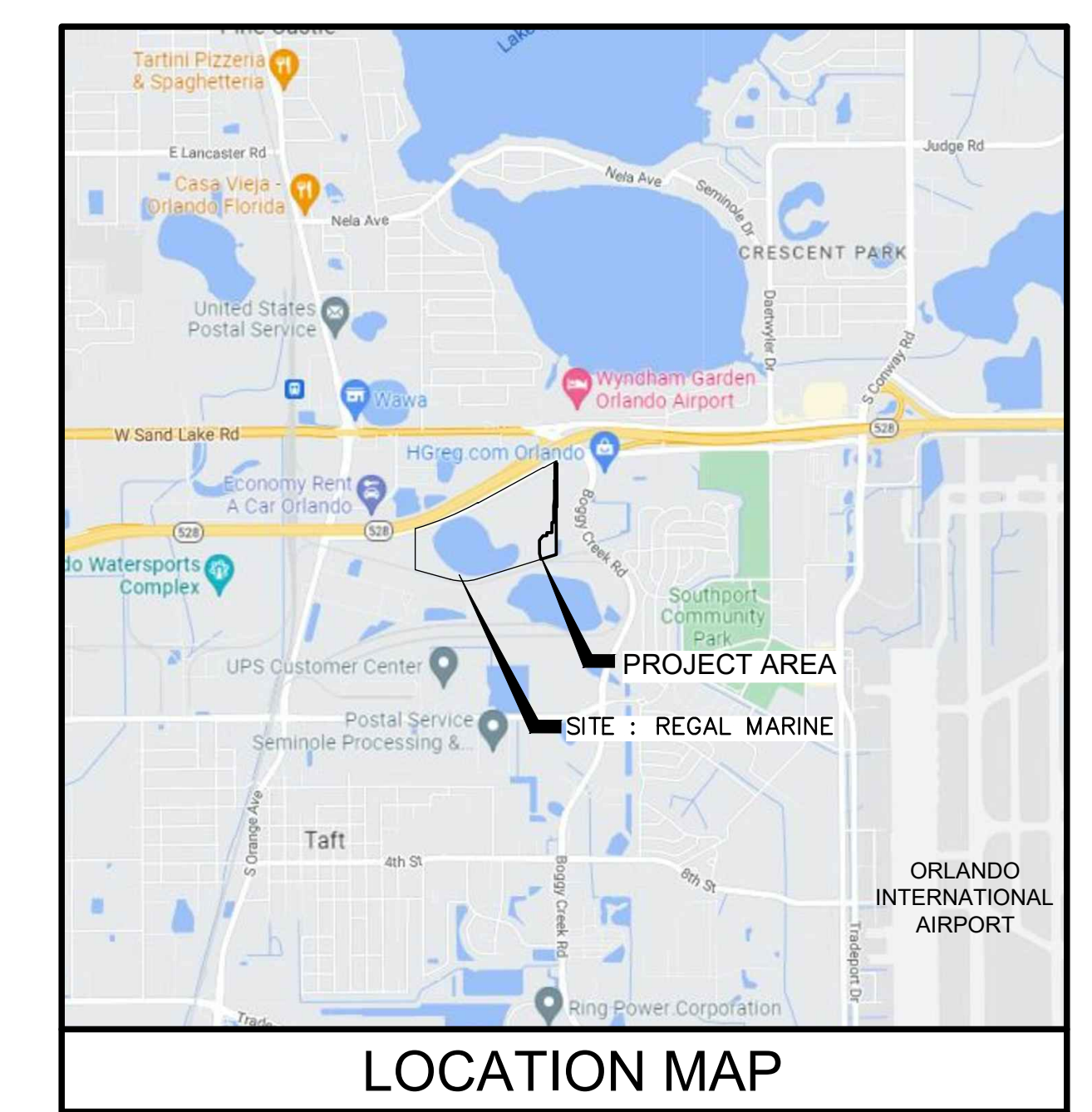
Owner
REGAL MARINE INDUSTRIES,
MARKETING BUSINESS ASSOCIATES LTD.,
LEGACY LAND LLC
2300 JETPORT DR
ORLANDO, FL 32809-7800
PHONE: 407.447.9219
CONTACT: PAUL KUCK

Civil Engineer
DEWBERRY ENGINEERS, INC.
800 NORTH MAGNOLIA AVENUE, SUITE 1000
ORLANDO, FL 32803-3251
PHONE: 321.354.9656
CONTACT: REINARDO MALAVE, PE

Architect
L2 STUDIOS
109 EAST CHURCH STREET, STE. 150
ORLANDO, FL 32801
PHONE: 407.648.8888
CONTACT:

Surveyors
DEWBERRY ENGINEERS, INC.
131 WEST KALEY STREET
ORLANDO, FL 32806
PHONE: 321.354.9837
CONTACT: WILLIAM HINKLE, PSM

DEEP SOUTH SURVEYING
596 TERRANOVA CIRCLE
WINTER HAVEN, FL 33884
PHONE: 863.797.3366
CONTACT: GALEN K. BELL, PSM



NOT TO SCALE SECT 07, T 25 S, R 30 E

Dewberry
Dewberry Engineers, Inc
800 N. Magnolia Avenue
Suite 1000
Orlando, FL 32803
407.843.5120
C.A. #8794

REGAL MARINE INDUSTRIES
BOAT PRODUCTION
EXPANSION
BELLE ISLE
2300 JETPORT DRIVE BELLE
CITY OF BELLE ISLE, FLORIDA
CONSTRUCTION PLANS

SEAL
Reinaldo Malave
FL PE # 91588
Feb. 24, 2023

SCALE

REVISIONS

NO.	ADDED/REVISED SHEETS	DATE
1	ADDED/REVISED SHEETS	10/1/22

DRAWN BY _____ GL
APPROVED BY _____ RM
CHECKED BY _____ GL
DATE _____ 9 / 6 / 2022
TITLE

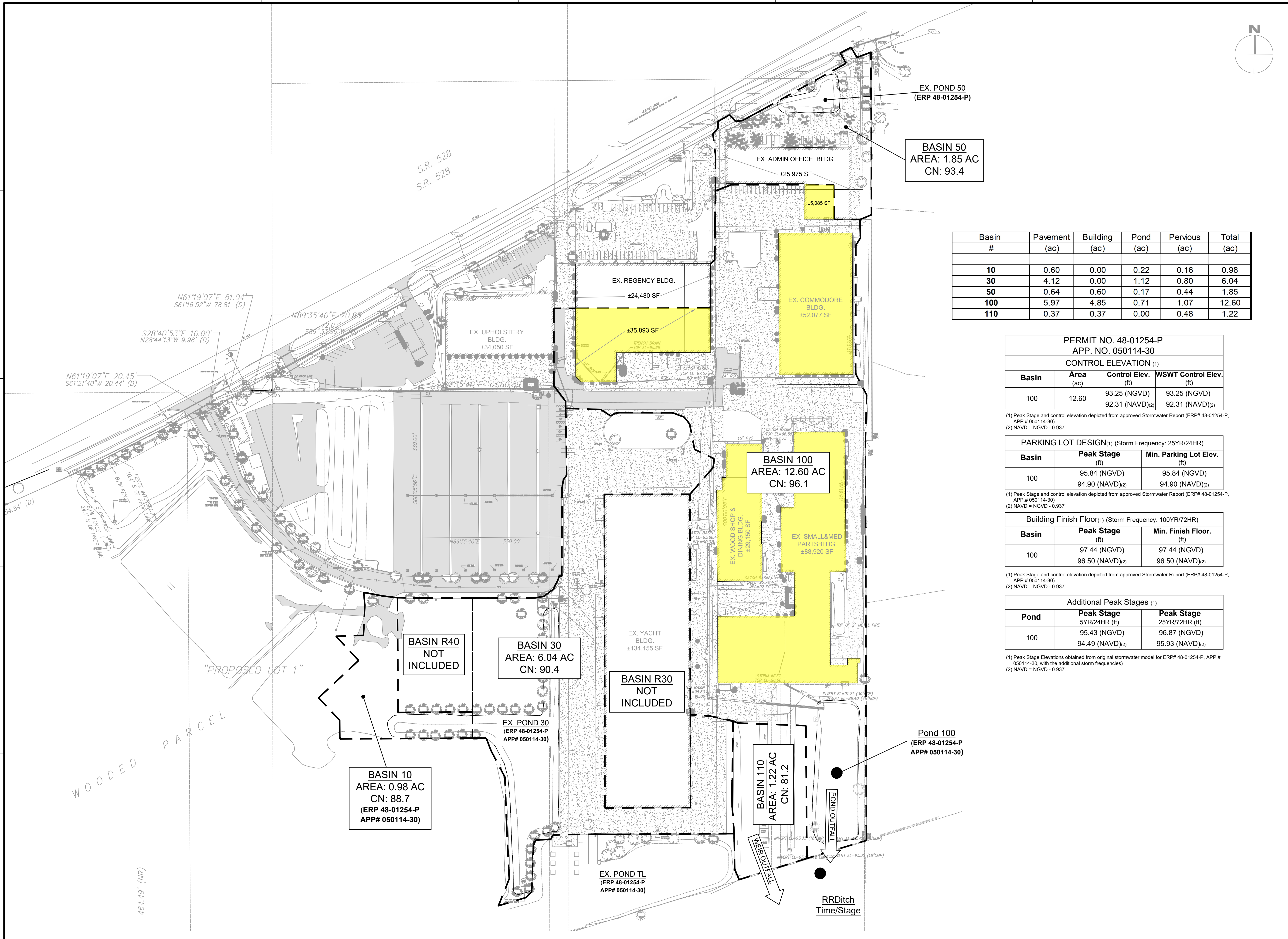
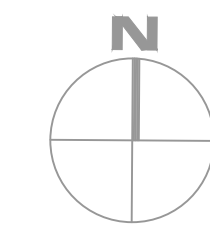
COVER SHEET

PROJECT NO. 50150413

C-0.0

SHEET NO. _____ OF _____

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Basin #	Pavement (ac)	Building (ac)	Pond (ac)	Pervious (ac)	Total (ac)
10	0.60	0.00	0.22	0.16	0.98
30	4.12	0.00	1.12	0.80	6.04
50	0.64	0.60	0.17	0.44	1.85
100	5.97	4.85	0.71	1.07	12.60
110	0.37	0.37	0.00	0.48	1.22

PERMIT NO. 48-01254-P
 APP. NO. 050114-30
 CONTROL ELEVATION (1)

Basin	Area (ac)	Control Elev. (ft)	WSWT Control Elev. (ft)
100	12.60	93.25 (NGVD) 92.31 (NAVD) ⁽²⁾	93.25 (NGVD) 92.31 (NAVD) ⁽²⁾

(1) Peak Stage and control elevation depicted from approved Stormwater Report (ERP# 48-01254-P, APP# 050114-30)
 (2) NAVD = NGVD - 0.937'

PARKING LOT DESIGN (1) (Storm Frequency: 25YR/24HR)

Basin	Peak Stage (ft)	Min. Parking Lot Elev. (ft)
100	95.84 (NGVD) 94.90 (NAVD) ⁽²⁾	95.84 (NGVD) 94.90 (NAVD) ⁽²⁾

(1) Peak Stage and control elevation depicted from approved Stormwater Report (ERP# 48-01254-P, APP# 050114-30)
 (2) NAVD = NGVD - 0.937'

Building Finish Floor (1) (Storm Frequency: 100YR/72HR)

Basin	Peak Stage (ft)	Min. Finish Floor. (ft)
100	97.44 (NGVD) 96.50 (NAVD) ⁽²⁾	97.44 (NGVD) 96.50 (NAVD) ⁽²⁾

(1) Peak Stage and control elevation depicted from approved Stormwater Report (ERP# 48-01254-P, APP# 050114-30)
 (2) NAVD = NGVD - 0.937'

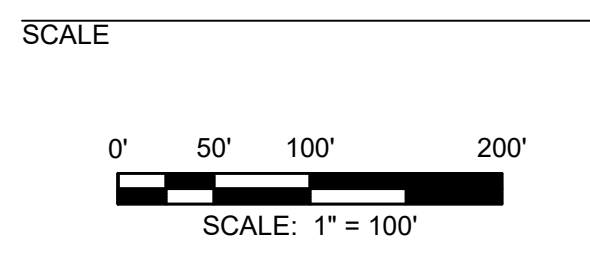
Additional Peak Stages (1)

Pond	Peak Stage 5YR/24HR (ft)	Peak Stage 25YR/72HR (ft)
100	95.43 (NGVD) 94.49 (NAVD) ⁽²⁾	96.87 (NGVD) 95.93 (NAVD) ⁽²⁾

(1) Peak Stage Elevations obtained from original stormwater model for ERP# 48-01254-P, APP# 050114-30, with the additional storm frequencies
 (2) NAVD = NGVD - 0.937'

REGAL MARINE INDUSTRIES
 BOAT PRODUCTION
 EXPANSION
 BELLE ISLE
 2300 JETPORT DRIVE BELLE
 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

SEAL
 Rainaldo Malave
 FL PE # 91588
 Feb 24, 2023



REVISIONS

NO.	DESCRIPTION	DATE

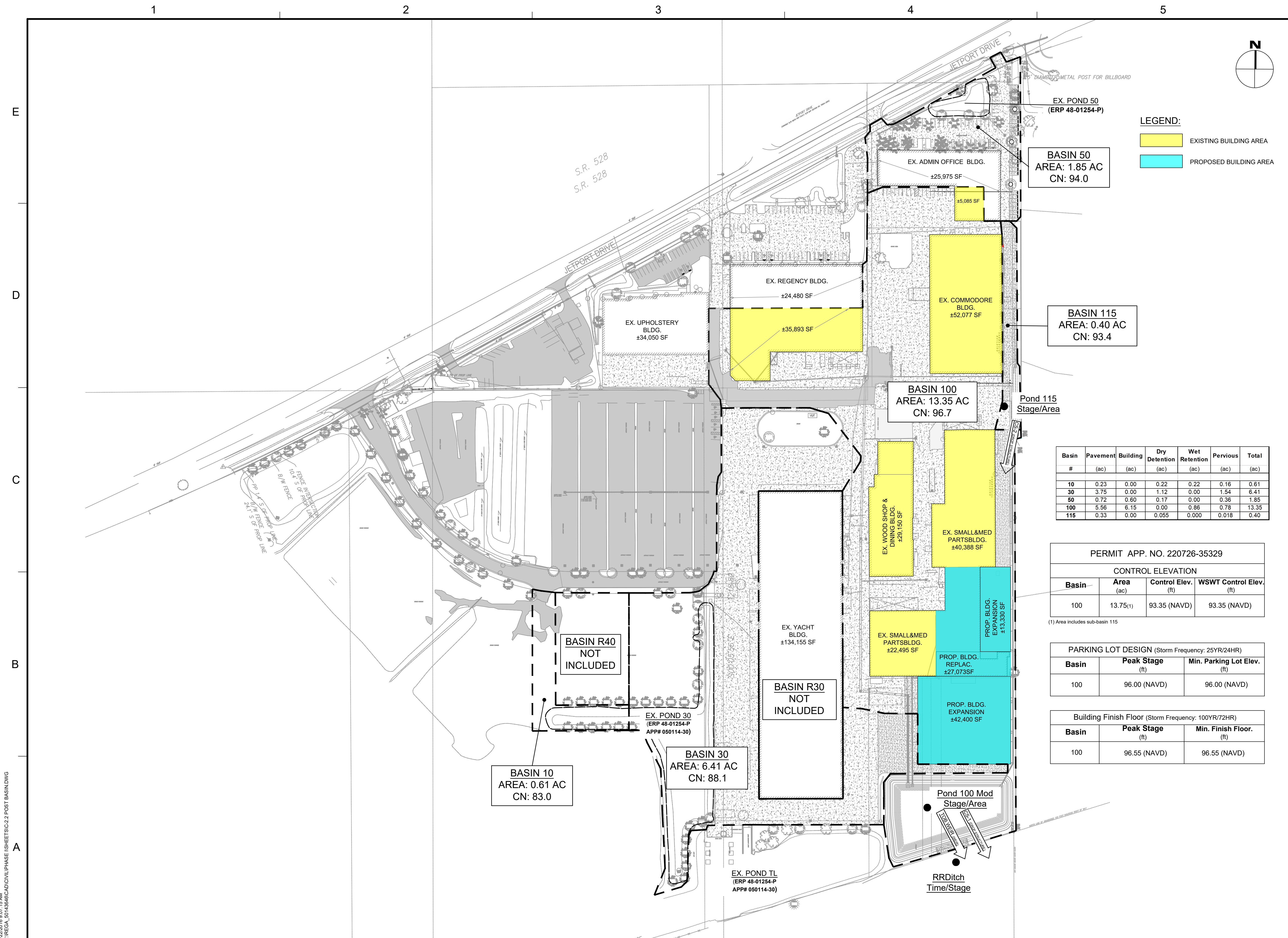
DRAWN BY _____ GL
 APPROVED BY _____ RM
 CHECKED BY _____ GL
 DATE _____ 9/6/2022

PRE-DEVELOPMENT
 BASIN MAP

PROJECT NO. 50150413

C-2.1

I:\220108\307\15 AM
 V:\REGAL_BOATPRODUCTION\PHASE 1\SHEETS\C-2.1 PRE BASIN.DWG



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 BOAT PRODUCTION
 EXPANSION
 BELLE ISLE
 2300 JETPORT DRIVE BELLE
 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

LEGEND:
 [Yellow Box] EXISTING BUILDING AREA
 [Cyan Box] PROPOSED BUILDING AREA

EX. POND 50
 (ERP 48-01254-P)

BASIN 50
 AREA: 1.85 AC
 CN: 94.0

BASIN 115
 AREA: 0.40 AC
 CN: 93.4

BASIN 100
 AREA: 13.35 AC
 CN: 96.7

Pond 115
 Stage/Area

Basin #	Pavement (ac)	Building (ac)	Dry Detention (ac)	Wet Retention (ac)	Pervious (ac)	Total (ac)
10	0.23	0.00	0.22	0.22	0.16	0.61
30	3.75	0.00	1.12	0.00	1.54	6.41
50	0.72	0.60	0.17	0.00	0.36	1.85
100	5.56	6.15	0.00	0.86	0.78	13.35
115	0.33	0.00	0.055	0.000	0.018	0.40

PERMIT APP. NO. 220726-35329

Basin	Area (ac)	Control Elev. (ft)	WSWT Control Elev. (ft)
100	13.75 ⁽¹⁾	93.35 (NAVD)	93.35 (NAVD)

(1) Area includes sub-basin 115

PARKING LOT DESIGN (Storm Frequency: 25YR/24HR)

Basin	Peak Stage (ft)	Min. Parking Lot Elev. (ft)
100	96.00 (NAVD)	96.00 (NAVD)

Building Finish Floor (Storm Frequency: 100YR/72HR)

Basin	Peak Stage (ft)	Min. Finish Floor. (ft)
100	96.55 (NAVD)	96.55 (NAVD)

S.R. 528
 S.R. 528

JETPORT DRIVE

JETPORT DRIVE

BASIN R40
 NOT INCLUDED

BASIN R30
 NOT INCLUDED

BASIN 10
 AREA: 0.61 AC
 CN: 83.0

BASIN 30
 AREA: 6.41 AC
 CN: 88.1

Pond 100 Mod
 Stage/Area

RRDitch
 Time/Stage

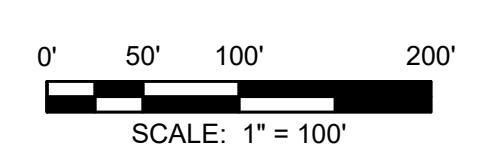
EX. POND TL
 (ERP 48-01254-P
 APP# 050114-30)

I:\2022\08\307\15 AM V:\REGAL_BOAT\REGAL\PHASE 1\SHEETS\C-2.2 POST BASIN.DWG

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 FL PE# 91588
 Feb 24, 2023

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: _____ GL
 APPROVED BY: _____ RM
 CHECKED BY: _____ GL
 DATE: 9/6/2022

TITLE
**POST-DEVELOPMENT
 BASIN MAP**

PROJECT NO. 50150413

C-2.2

SHEET NO. _____ OF _____

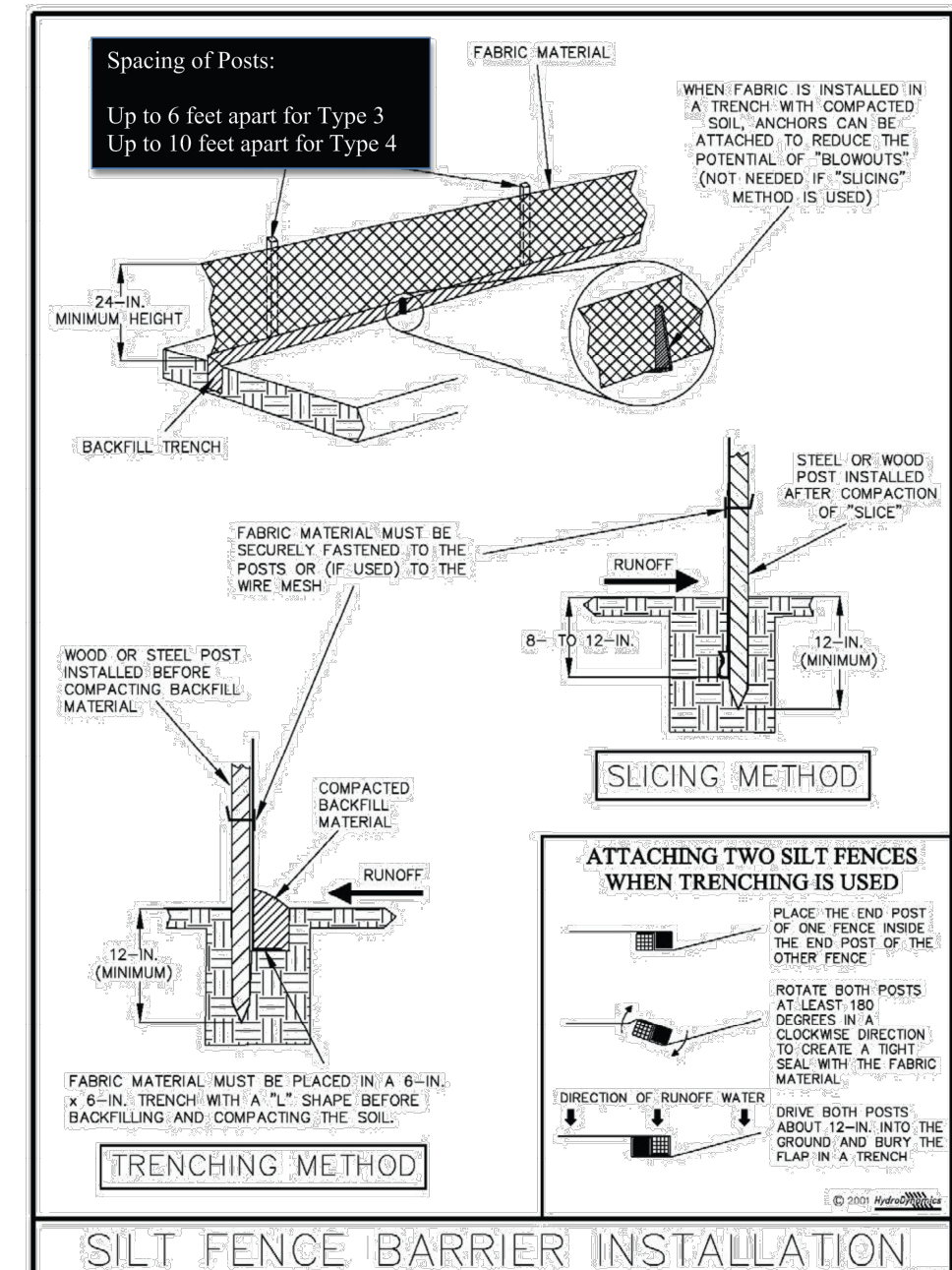
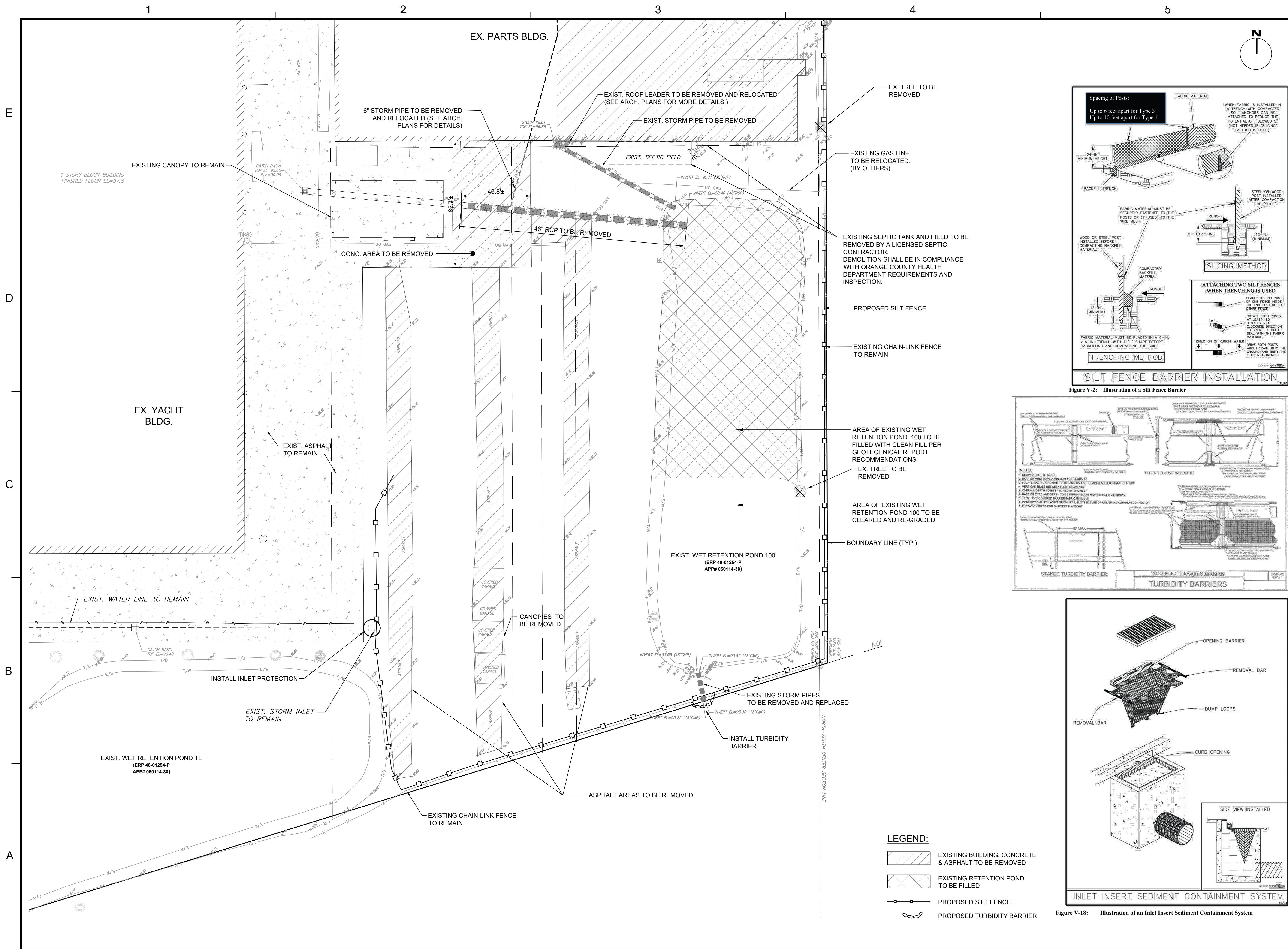


Figure V-2: Illustration of a Silt Fence Barrier

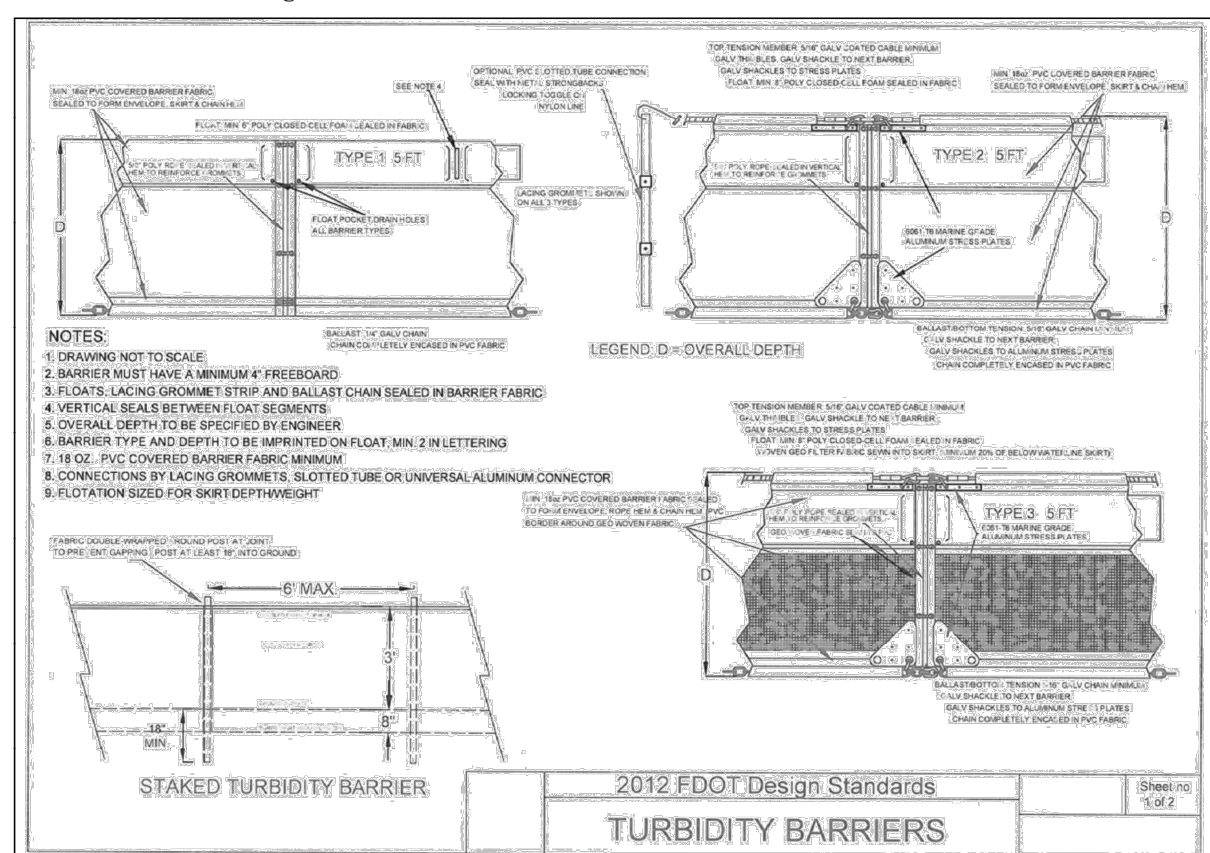


Figure V-18: Illustration of an Inlet Insert Sediment Containment System

- LEGEND:**
- EXISTING BUILDING, CONCRETE & ASPHALT TO BE REMOVED
 - EXISTING RETENTION POND TO BE FILLED
 - PROPOSED SILT FENCE
 - PROPOSED TURBIDITY BARRIER



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REGAL MARINE INDUSTRIES
BOAT PRODUCTION
EXPANSION
BELLE ISLE
2300 JETPORT DRIVE BELLE
CITY OF BELLE ISLE, FLORIDA
CONSTRUCTION PLANS

SEAL
SCALE
0' 15' 30' 60'
SCALE: 1" = 30'

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ GL
APPROVED BY _____ RM
CHECKED BY _____ GL
DATE _____ 9 / 6 / 2022
TITLE _____

**BUILDING EXPANSION
DEMOLITION
PLAN**

PROJECT NO. 50150413

C-3.0

SHEET NO. _____ OF _____

Reinaldo Malave
FL PE # 91588
Feb. 24, 2023



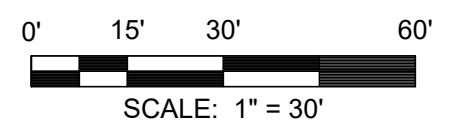
Dewberry Engineers, Inc
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 CITY OF BELLE ISLE, FLORIDA
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 FL PE # 915588
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DATE _____ 9/6/2022

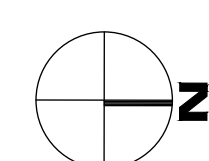
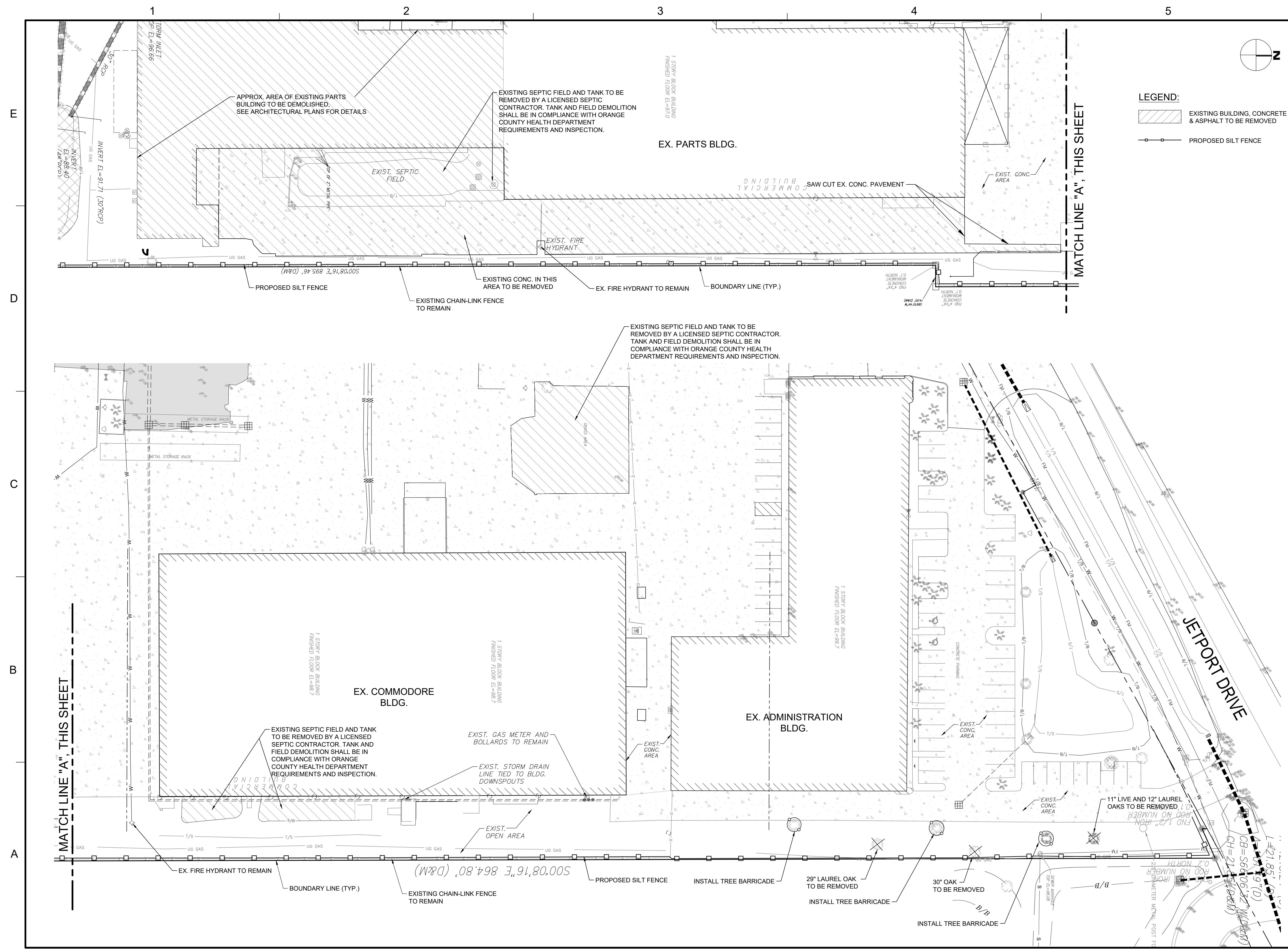
TITLE _____

**PARKING EXPANSION
 AREA DEMOLITION
 PLAN**

PROJECT NO. 50150413

C-3.1

SHEET NO. _____ OF _____



LEGEND:
 EXISTING BUILDING, CONCRETE & ASPHALT TO BE REMOVED
 PROPOSED SILT FENCE

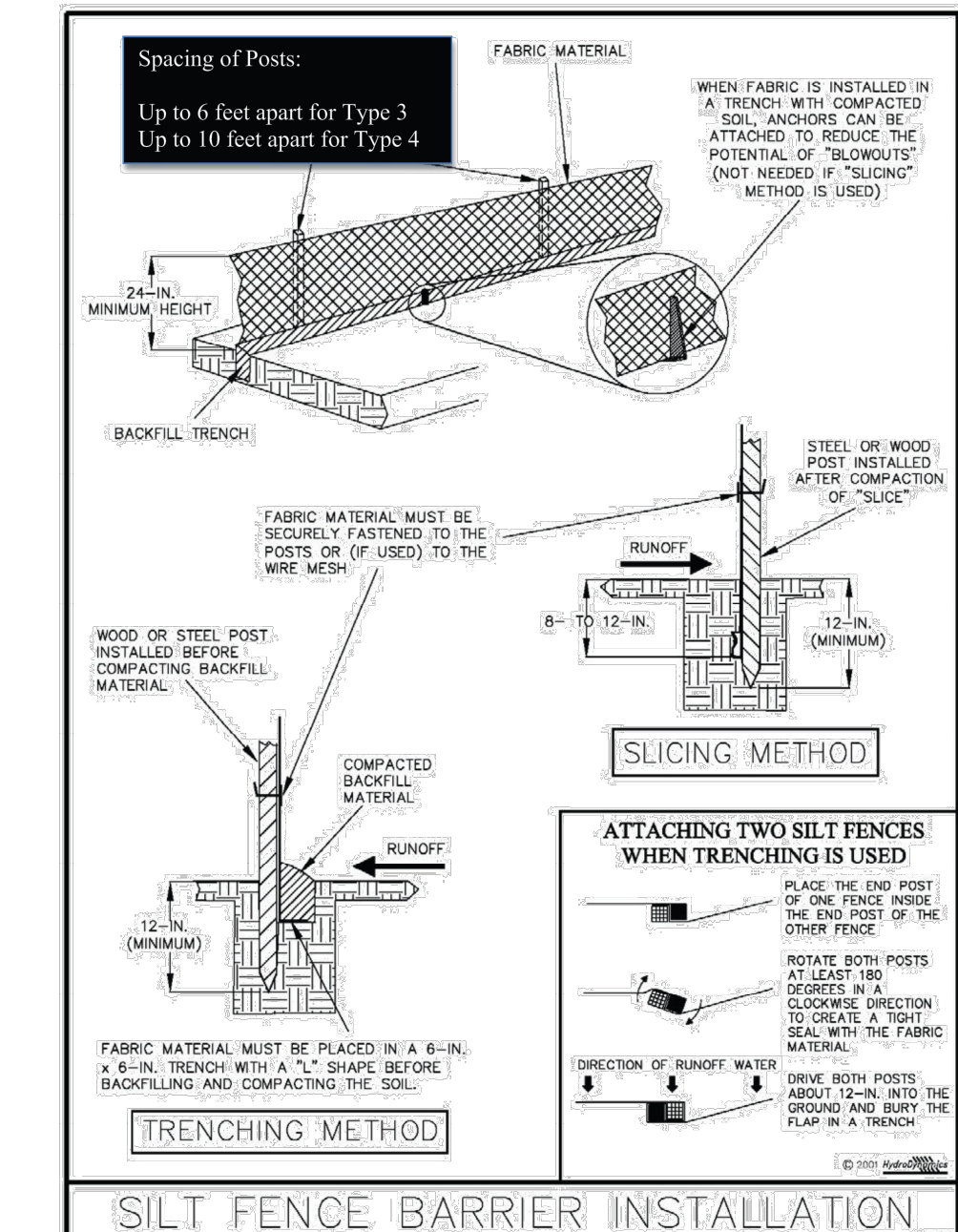
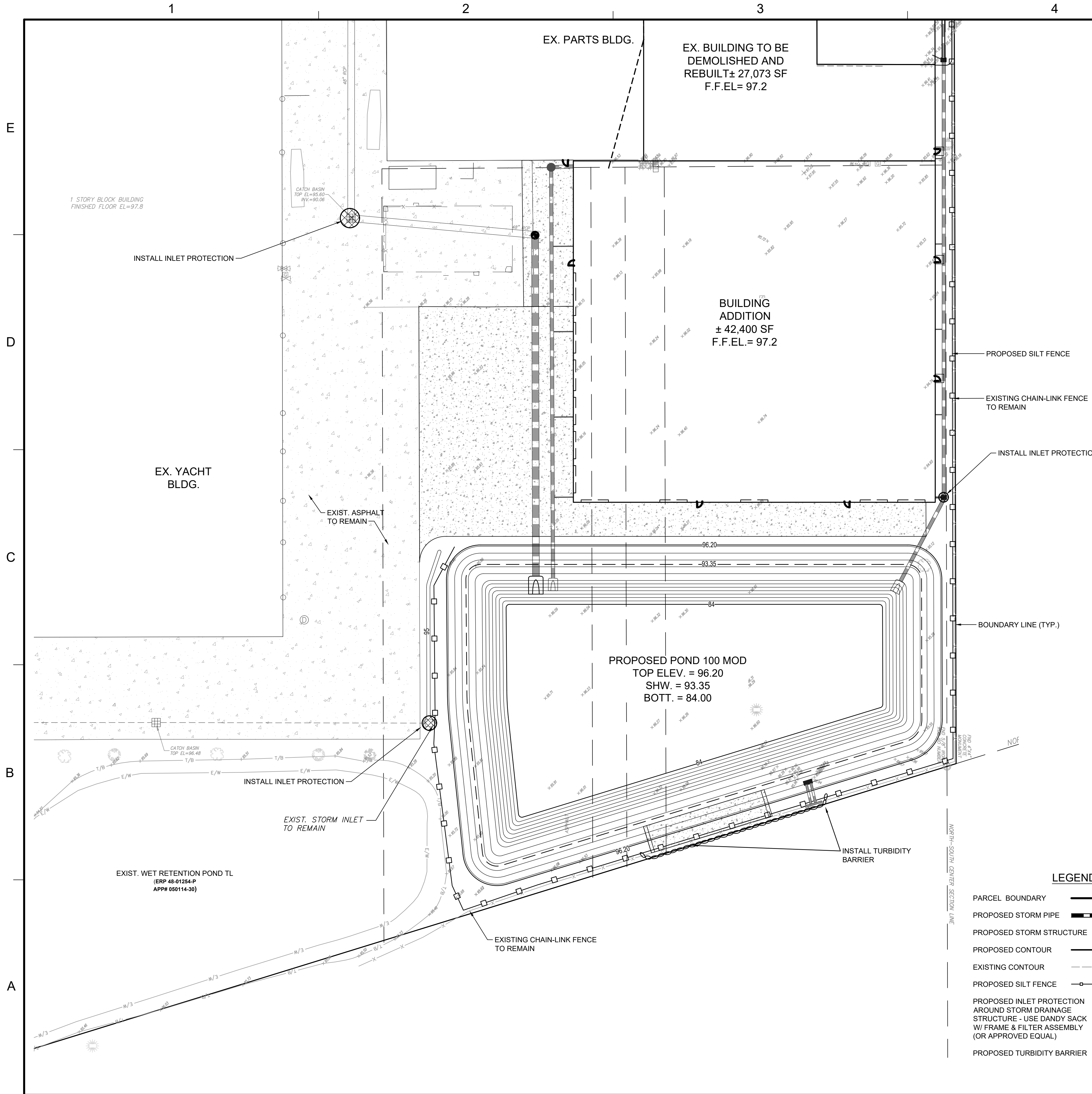


Figure V-2: Illustration of a Silt Fence Barrier

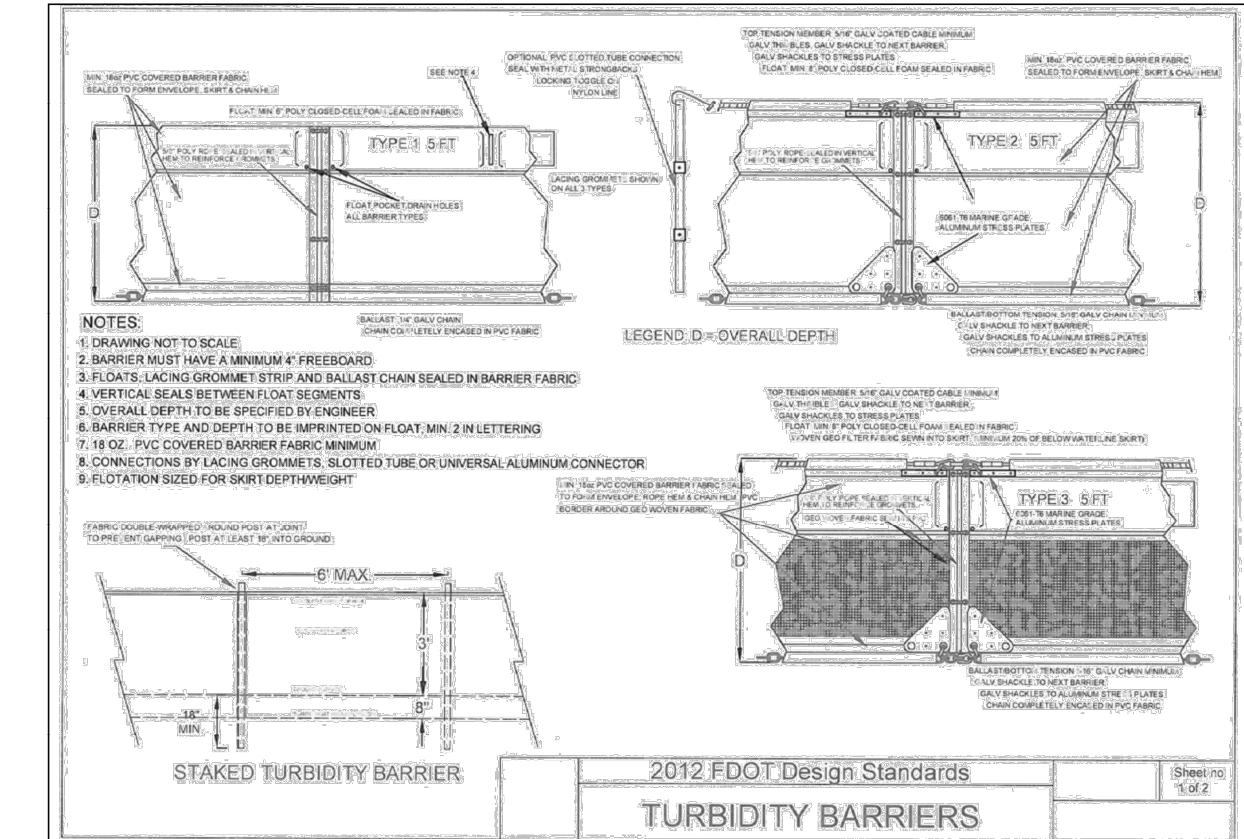


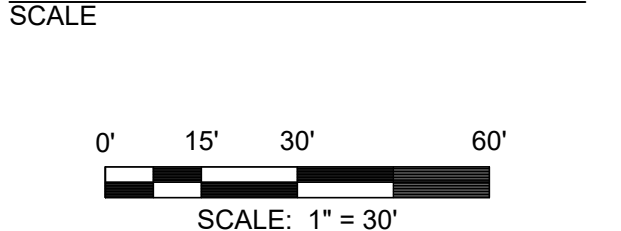
Figure V-18: Illustration of an Inlet Insert Sediment Containment System

- LEGEND:**
- PARCEL BOUNDARY
 - PROPOSED STORM PIPE
 - PROPOSED STORM STRUCTURE
 - PROPOSED CONTOUR
 - EXISTING CONTOUR
 - PROPOSED SILT FENCE
 - PROPOSED INLET PROTECTION AROUND STORM DRAINAGE STRUCTURE - USE DANDY SACK W/ FRAME & FILTER ASSEMBLY (OR APPROVED EQUAL)
 - PROPOSED TURBIDITY BARRIER

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REGAL MARINE INDUSTRIES
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 EXPANSION
 BELLE ISLE
 2300 JETPORT DRIVE BELLE
 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

SEAL
 REINHOLD MALAVE
 FL PE # 91588
 Feb. 24, 2023



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ GL
 APPROVED BY _____ RM
 CHECKED BY _____ GL
 DATE _____ 9 / 6 / 2022
 TITLE _____

EROSION CONTROL PLAN

PROJECT NO. 50150413

C-4.0

SHEET NO. _____ OF _____



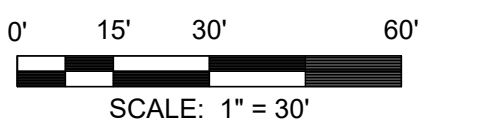
Dewberry Engineers, Inc
 800 N. Magnolia Avenue
 Suite 1000
 Orlando, FL 32803
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 C.A. #8794

REGAL MARINE INDUSTRIES
 BOAT PRODUCTION
 EXPANSION
 BELLE ISLE
 2300 JETPORT DRIVE BELLE
 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

SEAL

Reinaldo Malave
 FL PE # 915588
 Feb. 24, 2023

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

NO. DESCRIPTION DATE

DRAWN BY _____ GL

APPROVED BY _____ RM

CHECKED BY _____ GL

DATE _____ 9/6/2022

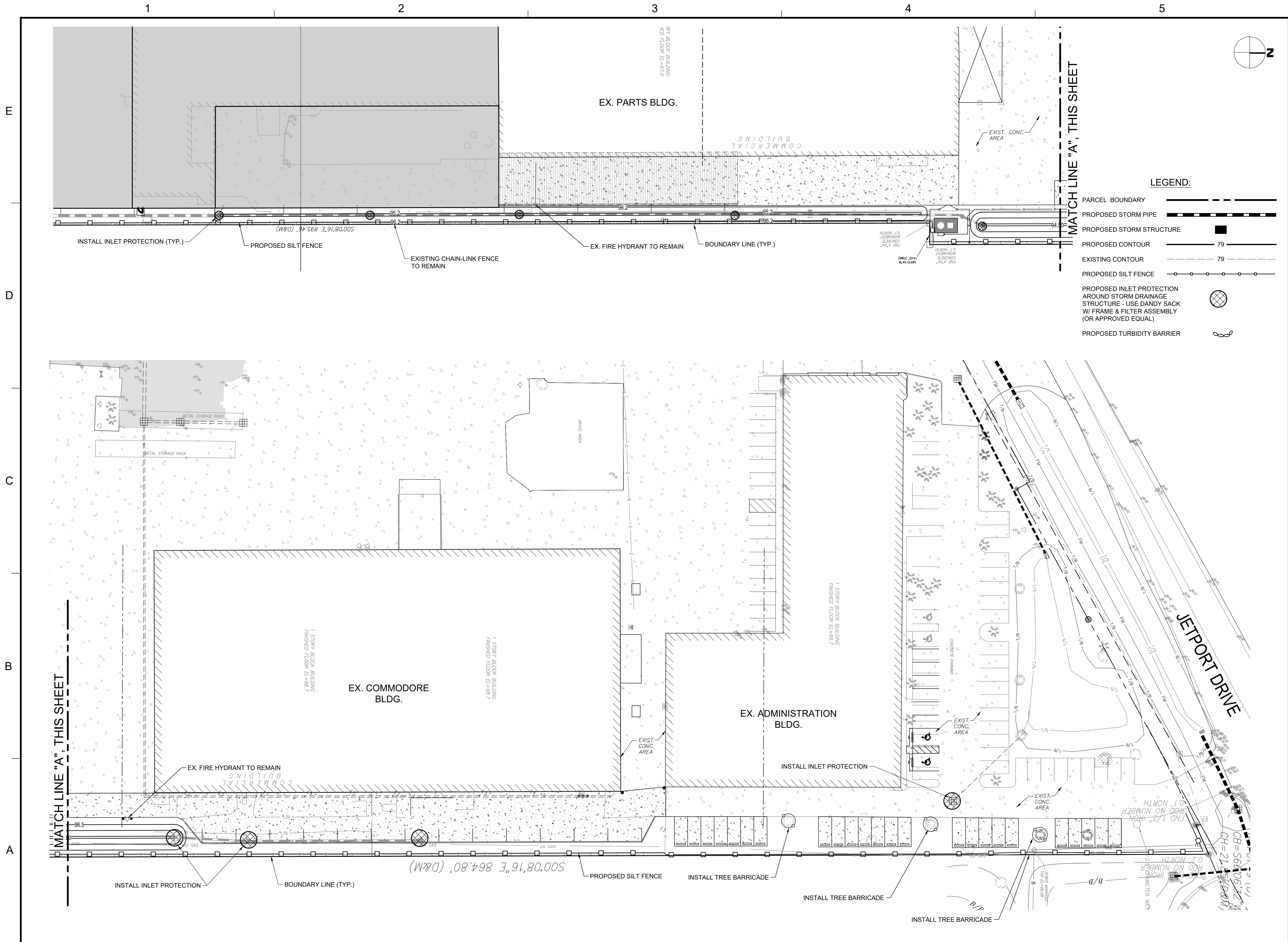
TITLE _____

EROSION CONTROL PLAN

PROJECT NO. 50150413

C-4.1

SHEET NO. _____ OF _____



SWPP / EROSION CONTROL PLAN

PROJECT NAME: REGAL MARINE EXPANSION PROJECT #: 50150413 FDEP PERMIT#: N/A SFWMD PERMIT #: 220726-35329

SITE PLAN

- DRAINAGE PATTERS (FLOW LINES): SEE GRADING PLAN SHEETS C-6.1 TO C-6.01
- SLOPES: SEE GRADING PLAN SHEETS C-6.1 TO C-6.01
- AREA DISTURBED/ AREAS NOT TO BE DISTURBED: SEE GRADING PLAN SHEETS C-6.1 TO C-6.01
- LOCATION AND DETAILS OF BMPs: SEE C-4.0 & C-01 (STRUCTURAL CONTROLS SUCH AS (BUT NOT LIMITED TO) SILT FENCES OR TURBIDITY BARRIERS AND NO- STRUCTURAL CONTROLS SUCH AS (BUT NOT LIMITED TO) ALUM SYSTEMS OR POLYCRILAMIDE)
- LOCATION OF WETLANDS AND SURFACE WATERS: NO WETLANDS, EXISTING POND LOCATED AT THE SOUTHEAST OF PROJECT AREA
- LOCATION (LATITUDE AND LONGITUDE) OF ALL OUTFALL(S) TO EXISTING POND, OR SURFACE WATER: NO WETLANDS

OTHER INFORMATION

LOCATION (ADDRESS): 2300 JETPORT DRIVE, ORLANDO, FL 32809

DESCRIPTION OF CONSTRUCTION ACTIVITIES: CONSTRUCTION IN ONE PHASE. CONSTRUCTION OF ONE (1) WAREHOUSE ADDITION BUILDING WITH PARKING SPACES ADDITION, UTILITIES, AND STORMWATER CONVEYANCE SYSTEM.

CONSTRUCTION SEQUENCE: EROSION PROTECTION INSTALLATION, DEMO/REMOVE EXISTING ITEMS AS SPECIFIED WITHIN CONSTRUCTION LIMITS, CONSTRUCTION OF PROPOSED IMPROVEMENTS.

SOIL TYPES: SEE GEOTECHNICAL REPORT

DEWATERING METHOD AND LOCATION: ANY DEWATERING REQUIRED BY CONTRACTOR IS TO BE PERMITTED BY THE APPROPRIATE AGENCY. DEWATERING FOR THE PROPOSED POND IS PERMITTED THROUGH SFWMD.

BMPs (DESCRIPTION): SEE THIS SHEET

PERMANENT STABILIZATION (DESCRIPTION): SEE C-3.0 & C3.01 TO C-4.0 & C-4.1

PERMANENT STORMWATER MANAGEMENT CONTROL (DESCRIPTION): SEE GRADING PLAN SHEETS C-6.1 TO C-6.01

POTENTIAL POLLUTANTS DURING CONSTRUCTION: SEE GRADING PLAN SHEETS C-6.1 TO C-6.01

INSPECTIONS: CONSTRUCTION SITE WILL BE INSPECTED FOR EROSION PROBLEMS DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5". AN RAIN GAUGE WILL BE ONSITE TO MEASURE THE RAINFALL AMOUNTS

ADDITIONAL NOTES

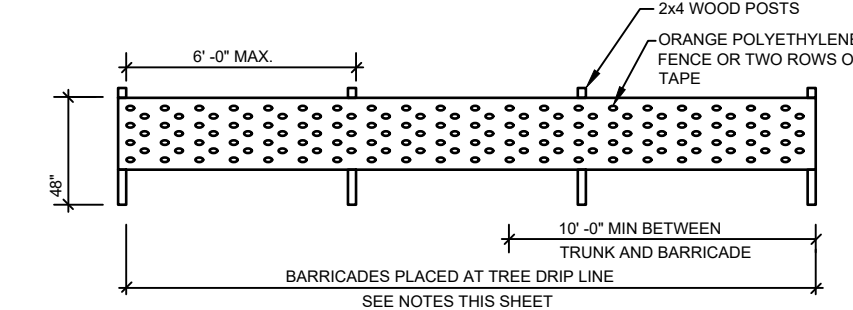
CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL IF IT BECOMES NECESSARY TO MEET STATE AND LOCAL STANDARDS

OPERATOR AND/OR RESPONSIBLE AUTHORITY: REGAL MARINE INDUSTRIES
CONTRACTOR: TBD

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, FLORIDA STATUTES, THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH THE ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE _____	PRINTED NAME & TITLE _____
OWNER NAME _____	OWNER ADDRESS _____
OWNER TELEPHONE _____	DATE _____
SITE ADDRESS CITY STATE, ZIP _____	



TREE PROTECTION DETAIL

N.T.S.

TREE PROTECTION REQUIREMENTS

- PROTECT DESIGNATED EXISTING TREES SCHEDULED TO REMAIN AGAINST:
 - UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS
 - SKINNING AND BRUISING OF BARK
 - SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION OR EXCAVATION MATERIALS WITHIN DRIP-LINE
 - EXCESS FOOT OR VEHICULAR TRAFFIC
 - PARKING VEHICLES WITHIN DRIP-LINE
 - TRENCHING
- ERECT TEMPORARY WOODEN BARRICADES AS SHOWN ON THIS SHEET (PLAN & DETAIL), BEFORE COMMENCEMENT OF ANY SITE CLEARING, GRADING, OR CONSTRUCTION. FENCE TO BE 4' HIGH MINIMUM WIDTH 2 X 4 POST SET DEEP ENOUGH IN THE GROUND TO BE STABLE WITHOUT ADDITIONAL SUPPORT. HORIZONTAL FENCE SHALL BE ORANGE POLYETHYLENE FENCE OR TWO ROWS OF TAPE. ALL FENCING SHOULD BE AT MINIMUM PLACED AT POINTS NOT CLOSER THAN THE DRIP LINE OF ANY TREES AND SHALL FULLY ENCLOSE ALL TREES SCHEDULED TO REMAIN. NOTHING SHALL BE PLACED INSIDE OF PROTECTIVE BARRICADES INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIAL, MACHINERY, CHEMICALS OR TEMPORARY SOIL DEPOSITS. WHEN PAVING, EXCAVATION OR HARDSCAPE MUST BE ONE WITHIN BARRICADES. BARRICADES SHALL BE MOVED BACK TO A SECONDARY LOCATION AT EDGE OF WORK. EXTRA CARE MUST BE TAKEN AT THIS TIME BY THE CONTRACTOR TO INSURE THAT NO DAMAGE TO THE TREE OCCURS.
- PROVIDE WATER TO TREES AS REQUIRED TO MAINTAIN THEIR HEALTH DURING CONSTRUCTION WORK.
- WHEN NECESSARY TO CUT ROOT OVER 1" DIAMETER OF TREES TO REMAIN, CUT MUST BE A CLEAN CUT. TEMPORARILY COVER EXPOSED ROOTS WITH WET BURLAP TO PREVENT DRYING AND COVER WITH EARTH AS SOON AS POSSIBLE.
- NO GRADE CHANGES ARE TO BE MADE WITHIN THE BARRICADES WITHOUT PRIOR APPROVAL OF THE MUNICIPALITY'S CURRENT PLANNING MANAGER OR HIS DESIGNATED REPRESENTATIVE.
- NO ATTACHMENTS OR WIRES OTHER THAN THOSE OF A PROTECTIVE OR NON-DAMAGING NATURE SHALL BE ATTACHED TO ANY TREE.
- INTERFERING BRANCHES MAY BE REMOVED BY A QUALIFIED ARBORIST AT THE DIRECTION OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE.
- REPAIR OR REPLACE TREES INDICATED TO REMAIN, WHICH ARE DAMAGED IN THE CONSTRUCTION OPERATIONS, IN A MANNER ACCEPTABLE TO THE OWNER. EMPLOY A QUALIFIED TREE SURGEON TO REPAIR MAJOR DAMAGES TO TREES AND SHRUBS, PROMPTLY, TO PREVENT PROGRESSIVE DETERIORATION CAUSED BY THE DAMAGE.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF TREES DESTROYED OR SUBJECT TO MAJOR DAMAGE BEYOND REPAIR AS DETERMINED BY THE MUNICIPALITY'S CURRENT PLANNING MANAGER AND SHALL BE REPLACED BEFORE OCCUPANCY UNLESS REMOVAL HAS BEEN PERMITTED BY THE MUNICIPALITY. IF TREES ARE HARMED THROUGH LACK OF PROTECTION OR THROUGH NEGLIGENCE ON THE PART OF THE CONTRACTOR, THE CONTRACTOR SHALL BEAR THE BURDEN OF COST OF REPAIR OR REPLACEMENT.
- PROTECTIVE BARRIER ZONES SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN OR CONSTRUCTION IS COMPLETE, WHICHEVER OCCURS FIRST.
- THE CONTRACTOR SHALL ENGAGE A QUALIFIED ARBORIST WHO HAS SUCCESSFULLY COMPLETED TREE PROTECTION AND TREE TRIMMING WITH FIVE YEARS OR MORE EXPERIENCE, TO PERFORM THE FOLLOWING WORK:
 - CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN AS SHOWN ON DRAWINGS OR BY MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.
 - CONTRACTOR TO CLEAN, PRUNE, AND SHAPE EDGES OF EXISTING VEGETATION AS DIRECTED BY OWNER'S REPRESENTATIVE. CREATE SMOOTH BED LINES AROUND EXISTING VEGETATION.
 - PERFORM INITIAL PRUNING OF BRANCHES AND STIMULATION OF ROOT GROWTH WHERE REMOVED TO ACCOMMODATE NEW CONSTRUCTION.
 - PERFORM TREE REPAIR WORK FOR DAMAGE INCURRED BY NEW CONSTRUCTION.
 - CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
 - IF TREES ARE RELOCATED, CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM.

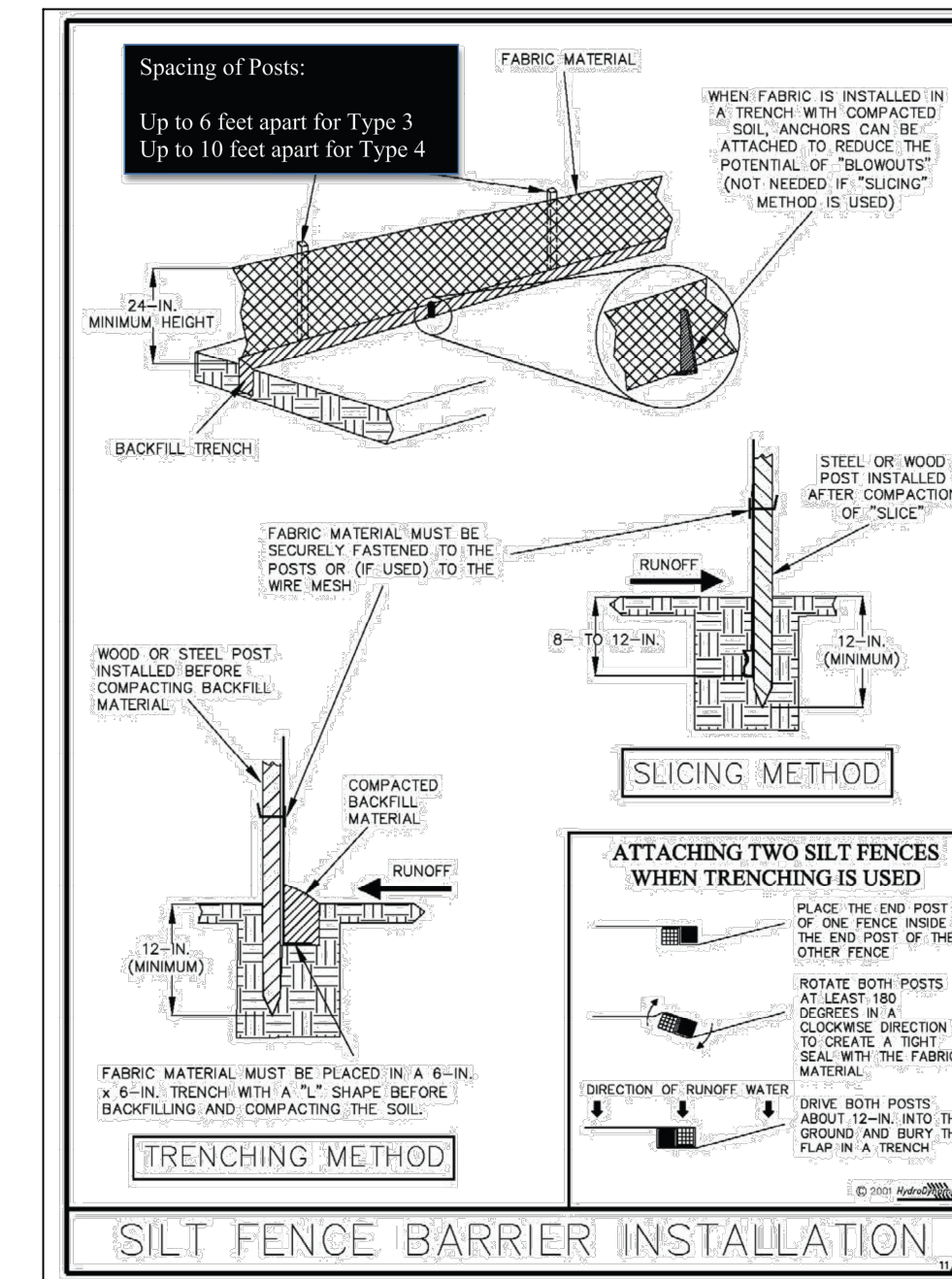


Figure V-2: Illustration of a Silt Fence Barrier

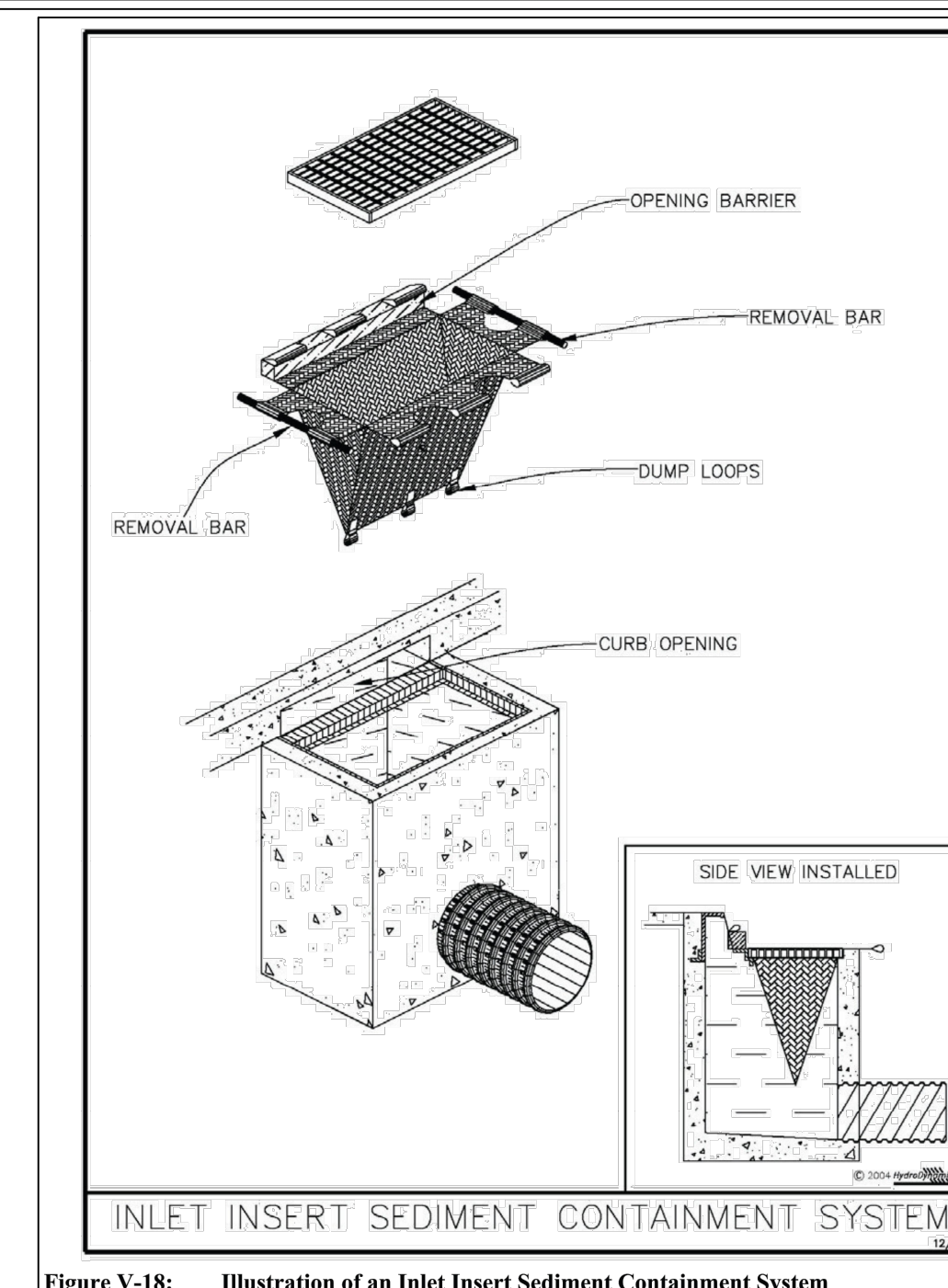
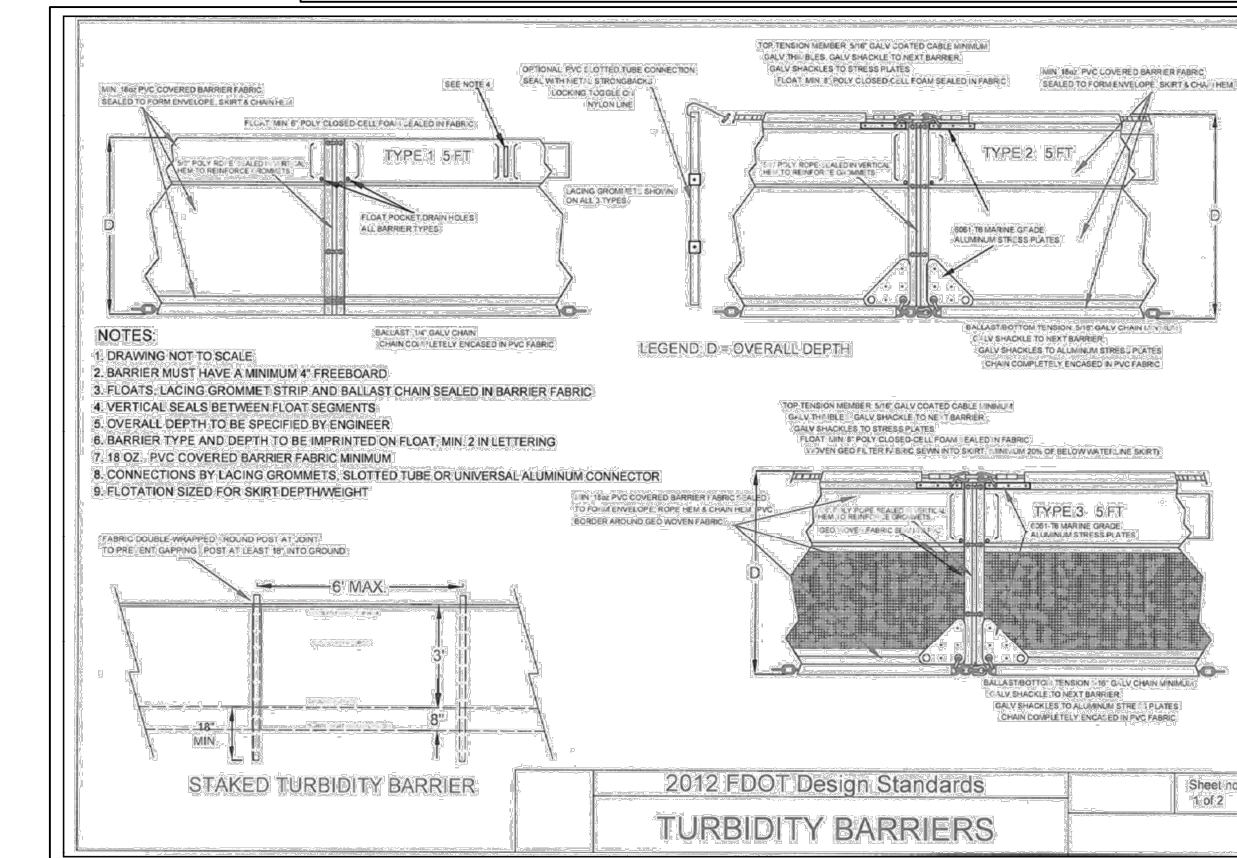


Figure V-18: Illustration of an Inlet Insert Sediment Containment System

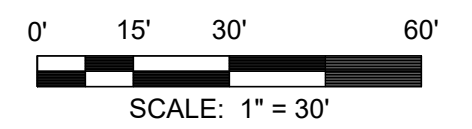


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BOAT PRODUCTION
EXPANSION
BELLE ISLE
2300 JETPORT DRIVE BELLE
CITY OF BELLE ISLE, FLORIDA
CONSTRUCTION PLANS

SCALE

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ GL

APPROVED BY _____ RM

CHECKED BY _____ GL

DATE 9 / 6 / 2022

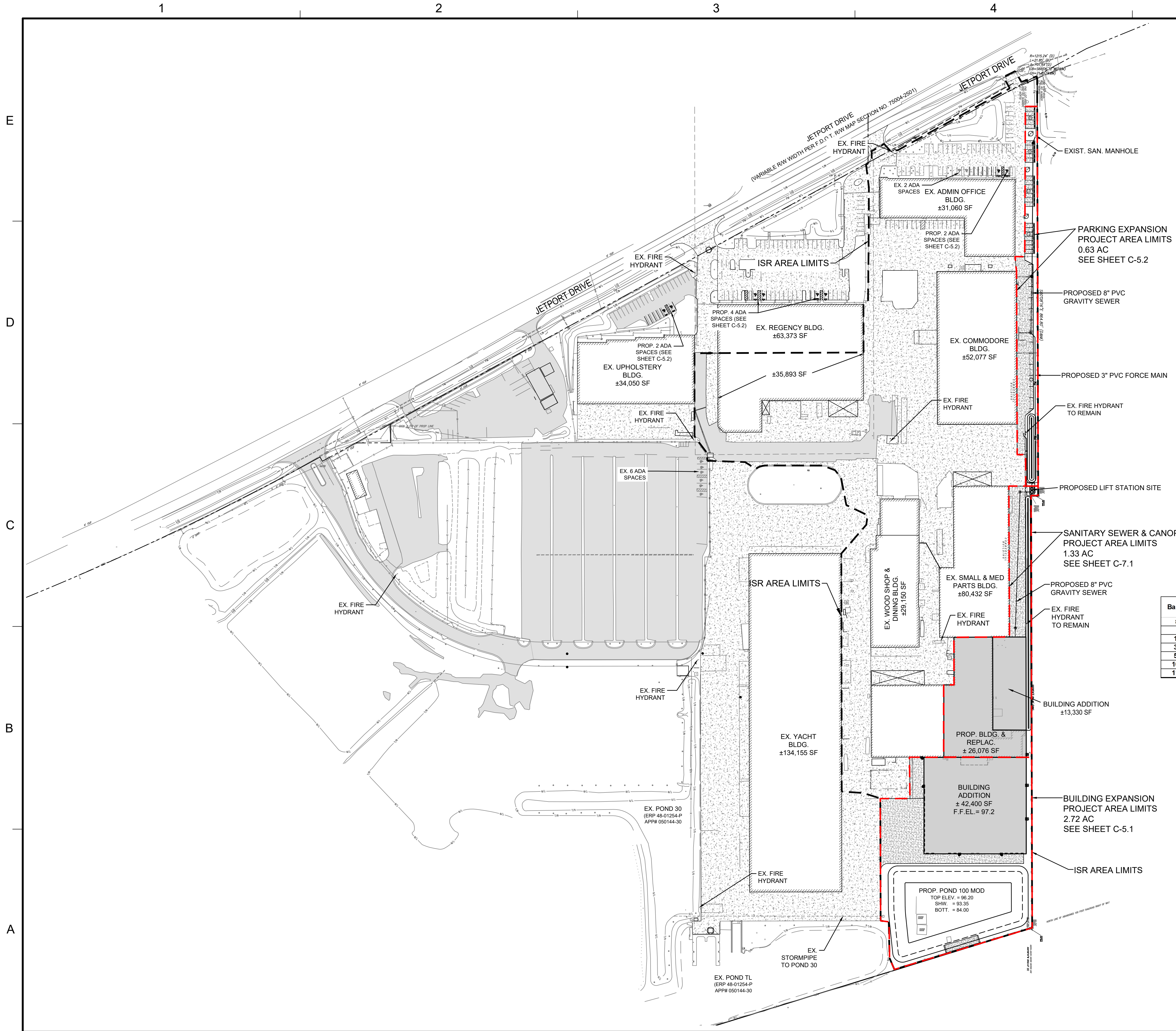
TITLE

EROSION CONTROL DETAILS

PROJECT NO. 50150413

C-4.2

SHEET NO. OF



SITE DATA:

PARCEL NO'S: 31-23-30-0000-00-001, 31-23-30-0000-00-004, 31-23-30-0000-00-011, 31-23-30-0000-00-012, 31-23-30-0000-00-013, 31-23-30-0000-00-017, 31-23-30-0000-00-026, 31-23-30-0000-00-027, 31-23-30-0000-00-029, 31-23-30-0000-00-035

SEC-TWP-RNG: 31-23S-30E

LAND USE (EXISTING): INDUSTRIAL
 LAND USE (PROPOSED): INDUSTRIAL

ZONING (EXISTING): IND-2
 ZONING (PROPOSED): IND-2

BUILDING USE: BOAT MANUFACTURING

SITE AREA:

	BUILDING	POND	IMPERV.	OPEN	TOTAL
EXISTING	0.62 AC	0.71 AC	0.98 AC	2.37 AC	4.68 AC
PROPOSED	1.90 AC	0.86 AC	1.00 AC	0.92 AC	4.68 AC

NOTE: TOTAL SITE AREA IS WITHIN THE PROJECT AREA LIMITS

ISR & FAR CALCULATIONS:

	BLDG. AREA	IMP. AREA	TOTAL IMP. AREA	TOTAL AREA	ISR (%)	FAR (%)
EXISTING	±5.45 AC	±6.97 AC	±12.42 AC	±16.11 AC	77.09	33.83
PROPOSED	±6.48 AC	±6.89 AC	±13.37 AC	±16.11 AC	83.00	40.22

NOTE: TOTAL AREA IS WITHIN THE ISR AREA LIMITS

FLOOD ZONE:
 PROPERTY LIES WITHIN FLOOD ZONES "X" AND "A", PER FEMA FIRM NO. 12095C0430F, DATED SEPTEMBER 25, 2009. FLOOD ZONE "A" IS SHOWN. OTHER AREAS OF THE SITE ARE ZONE "X".

PARKING REQUIREMENTS:
REQUIRED:
 1 SPACE / 1,000 SF INDUSTRIAL USE = 454,768 / 1,000 = 455 SPACES
 1 SPACE / BAY = 6 BAYS = 6 SPACES
 1 SPACE / 200 SF OFFICE AREA = 27,800 / 200 = 139 SPACES
 TOTAL = 455 + 139 + 6 = 600 SPACES (INCLUDING 12 ADA SPACES)

EXISTING: 677 SPACES (INCLUDING 8 ADA SPACES)
PROVIDED: 710 SPACES (INCLUDING 16 ADA SPACES)

BUILDING SETBACKS:

	EXISTING	PROP.	MIN.
SIDE (EAST)	±13.9'	±11.3'	5'
REAR	±359.4'	±158.6'	20'

Basin #	Pavement (ac)	Building (ac)	Dry Detention (ac)	Wet Retention (ac)	Pervious (ac)	Total (ac)
10	0.23	0.00	0.22	0.22	0.16	0.61
30	3.75	0.00	1.12	0.00	1.54	6.41
50	0.72	0.60	0.17	0.00	0.36	1.85
100	5.56	6.15	0.00	0.86	0.78	13.35
115	0.33	0.00	0.055	0.000	0.018	0.40

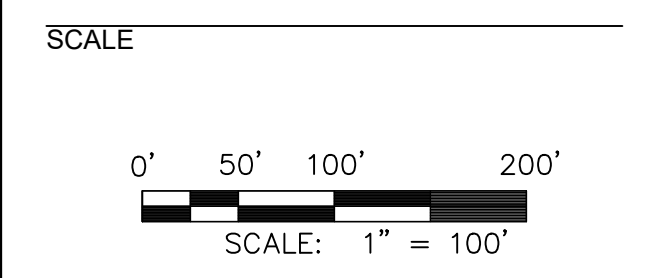


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 2300 JETPORT DRIVE BELLE
 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

SEAL

Reinaldo Malave
 FL PE # 91588
 Feb. 24, 2023



REVISIONS

NO.	DESCRIPTION	DATE

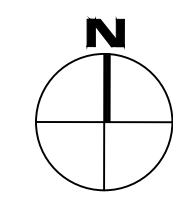
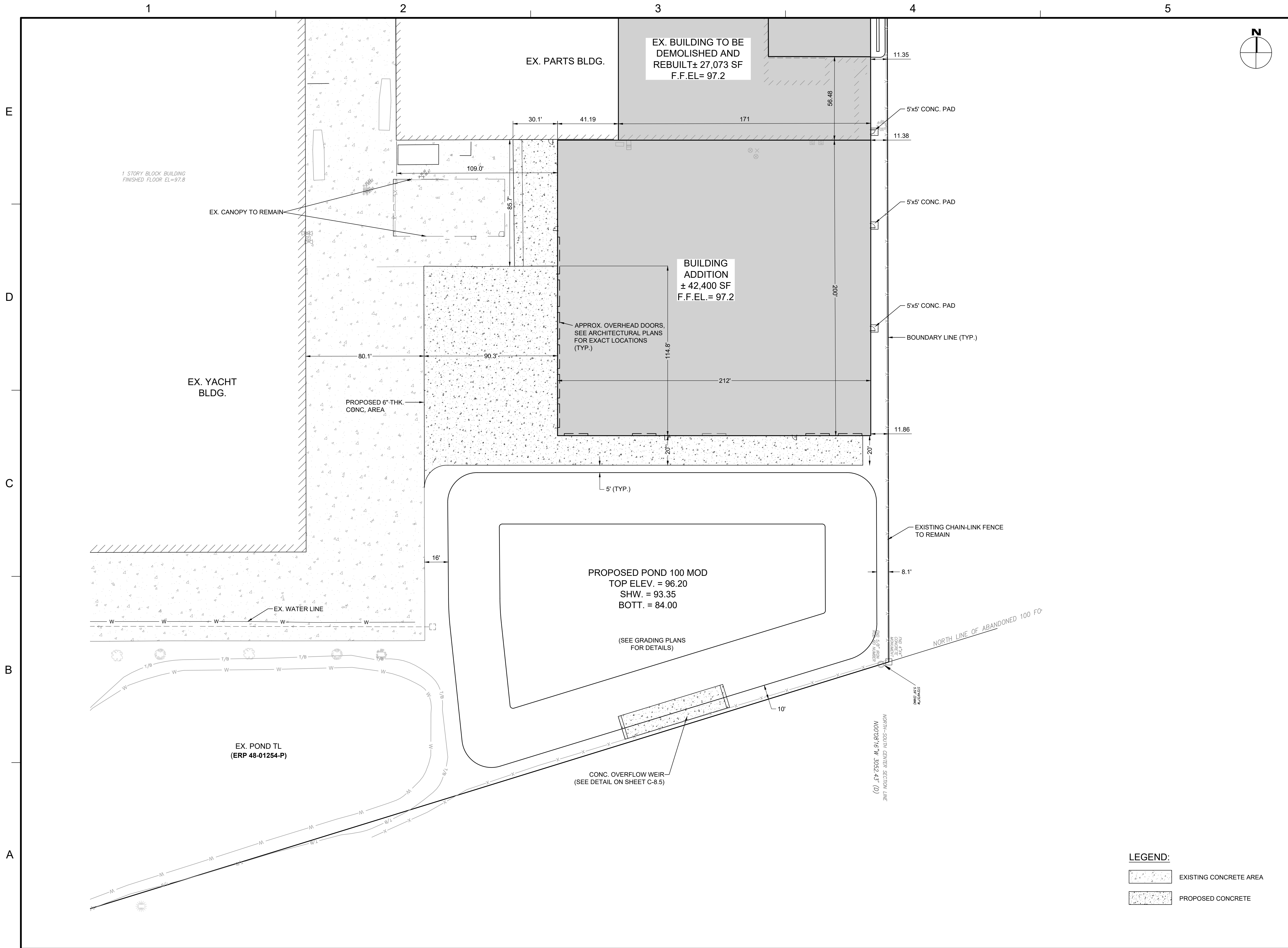
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 CHECKED BY _____ GL
 DATE _____ 9 / 6 / 2022
 TITLE _____

OVERALL SITE PLAN

PROJECT NO. 50150413

C-5.0

SHEET NO. _____ OF _____



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 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

SEAL
 Reinardo Malave
 FL PE # 91588
 Feb. 24, 2023

SCALE

 SCALE: 1" = 30'

REVISIONS

NO.	DESCRIPTION	DATE

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 APPROVED BY _____ RM
 CHECKED BY _____ GL
 DATE _____ 9 / 6 / 2022
 TITLE _____

**BUILDING EXPANSION
 SITE PLAN**

PROJECT NO. 50150413

C-5.1

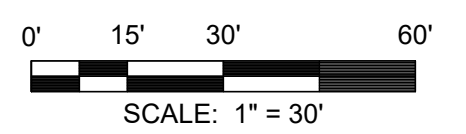
SHEET NO. _____ OF _____

LEGEND:
 EXISTING CONCRETE AREA
 PROPOSED CONCRETE

SEAL

Reinaldo Malave
 FL PE # 91588
 Feb. 24, 2023

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

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APPROVED BY _____ RM

CHECKED BY _____ GL

DATE 9 / 6 / 2022

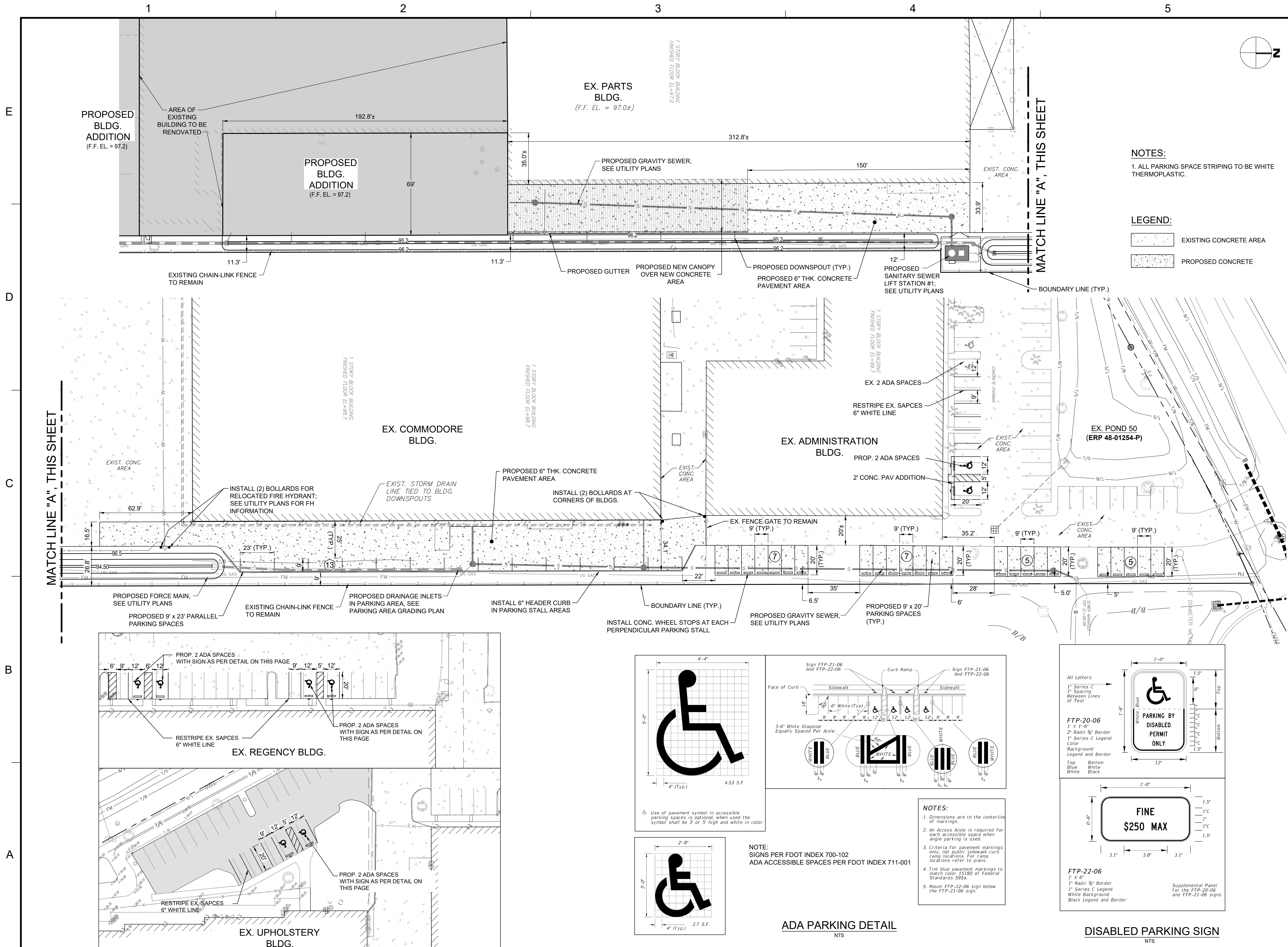
TITLE

**PROPOSED CANOPY &
 PARKING EXPANSION
 AREA
 SITE PLAN**

PROJECT NO. 50150413

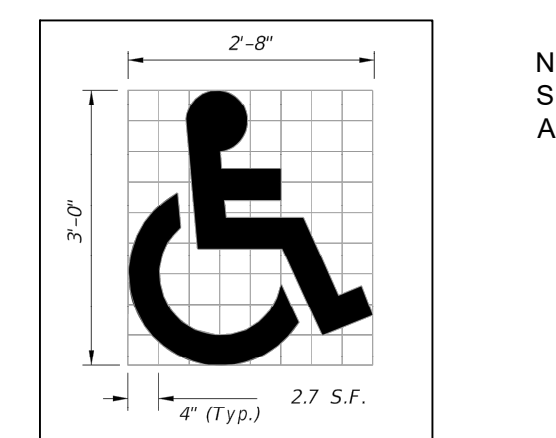
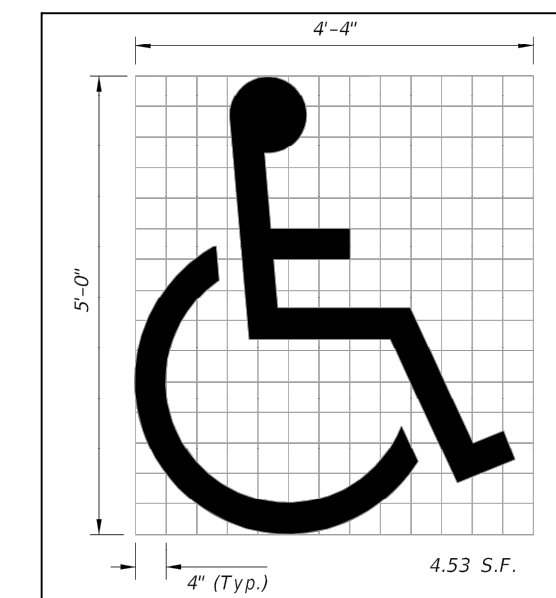
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SHEET NO. _____ OF _____



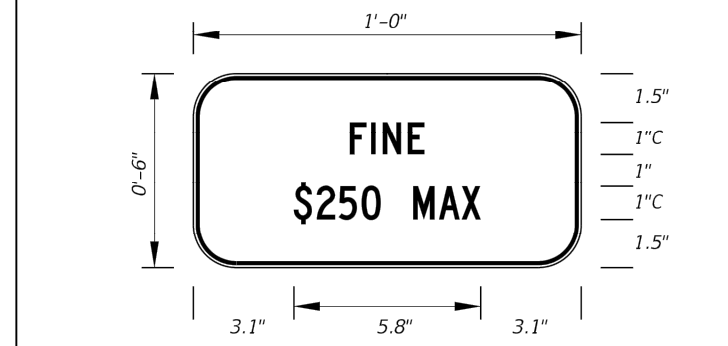
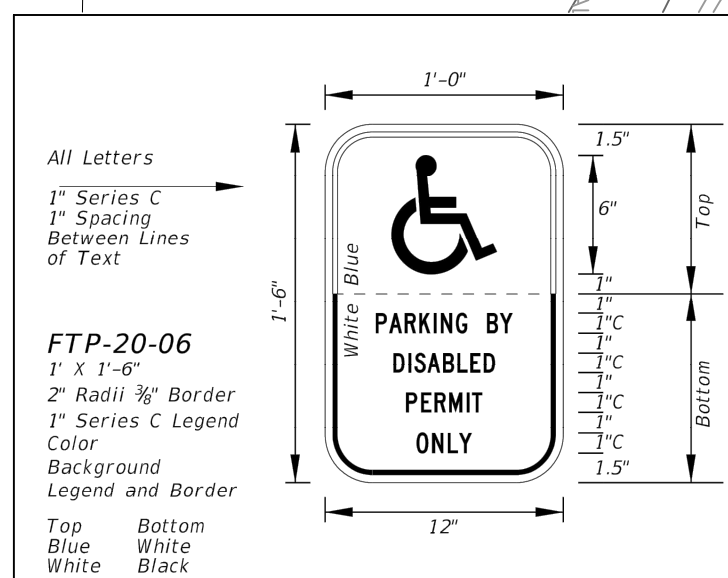
NOTES:
 1. ALL PARKING SPACE STRIPING TO BE WHITE THERMOPLASTIC.

LEGEND:
 EXISTING CONCRETE AREA
 PROPOSED CONCRETE

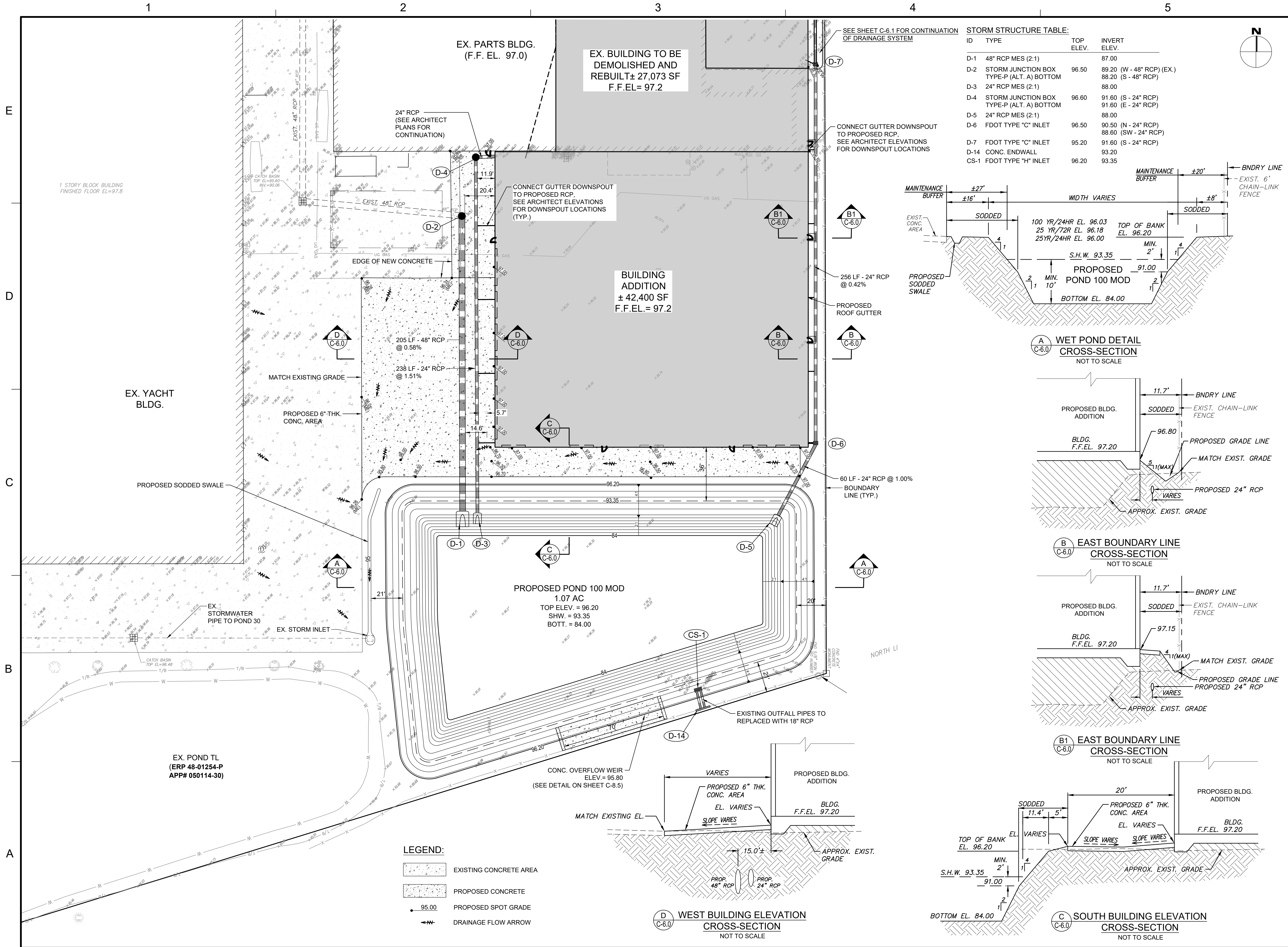


ADA PARKING DETAIL
 NTS

NOTES:
 1. Dimensions are to the centerline of markings.
 2. An Access Aisle is required for each accessible space when angle parking is used.
 3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
 4. Tint blue pavement markings to match color 15180 of Federal Standard 595a.
 5. Mount FTP-22-06 sign below the FTP-21-06 sign.

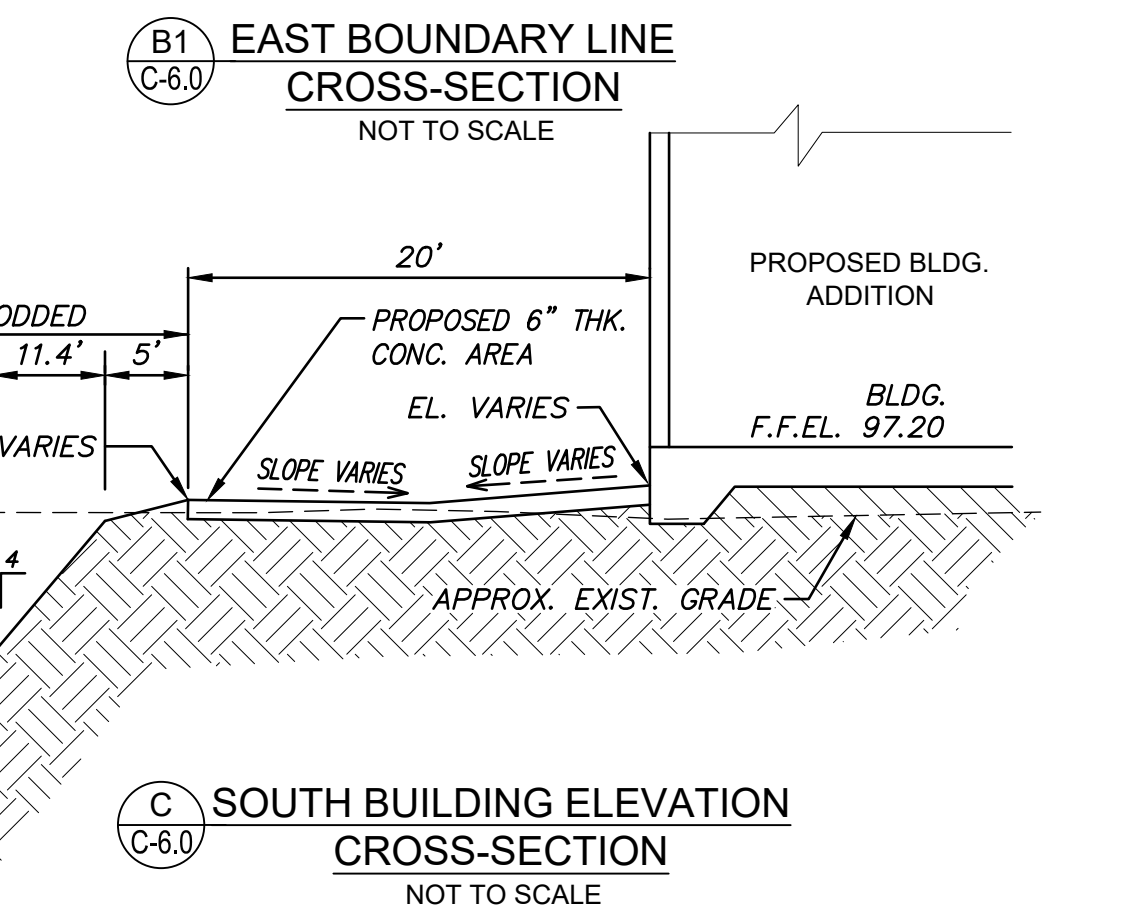
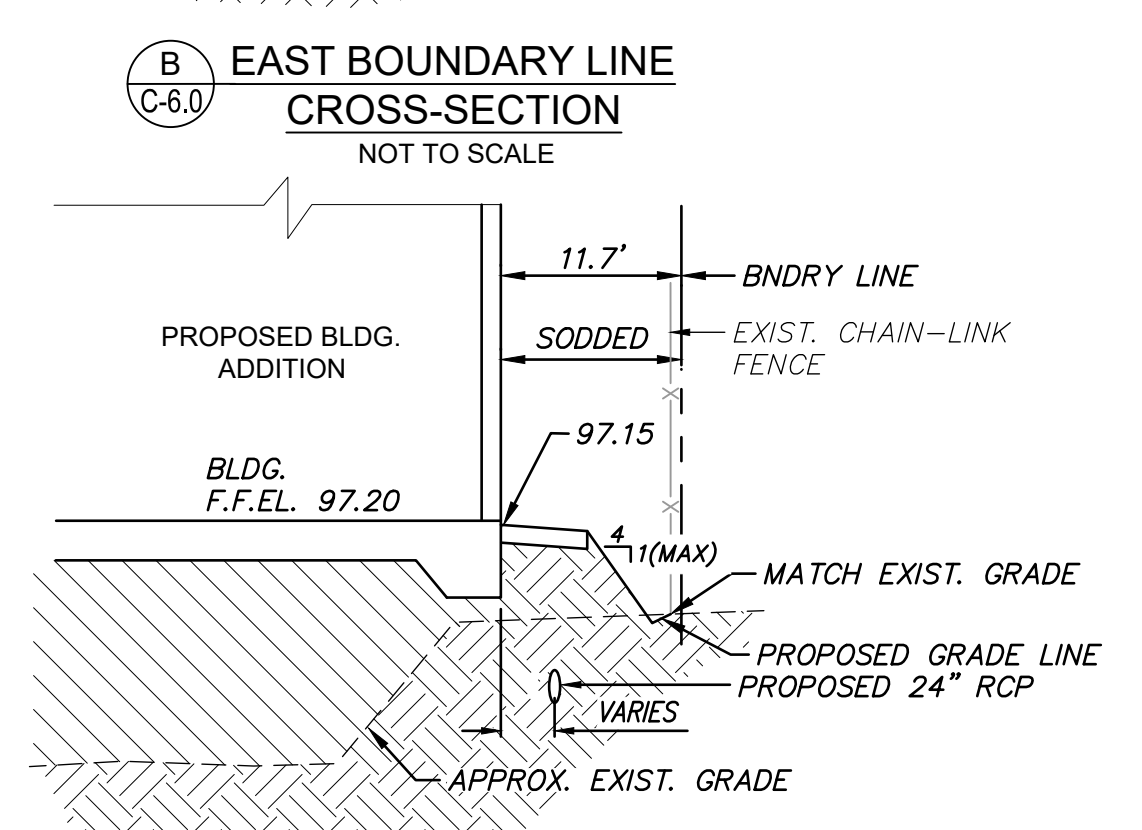
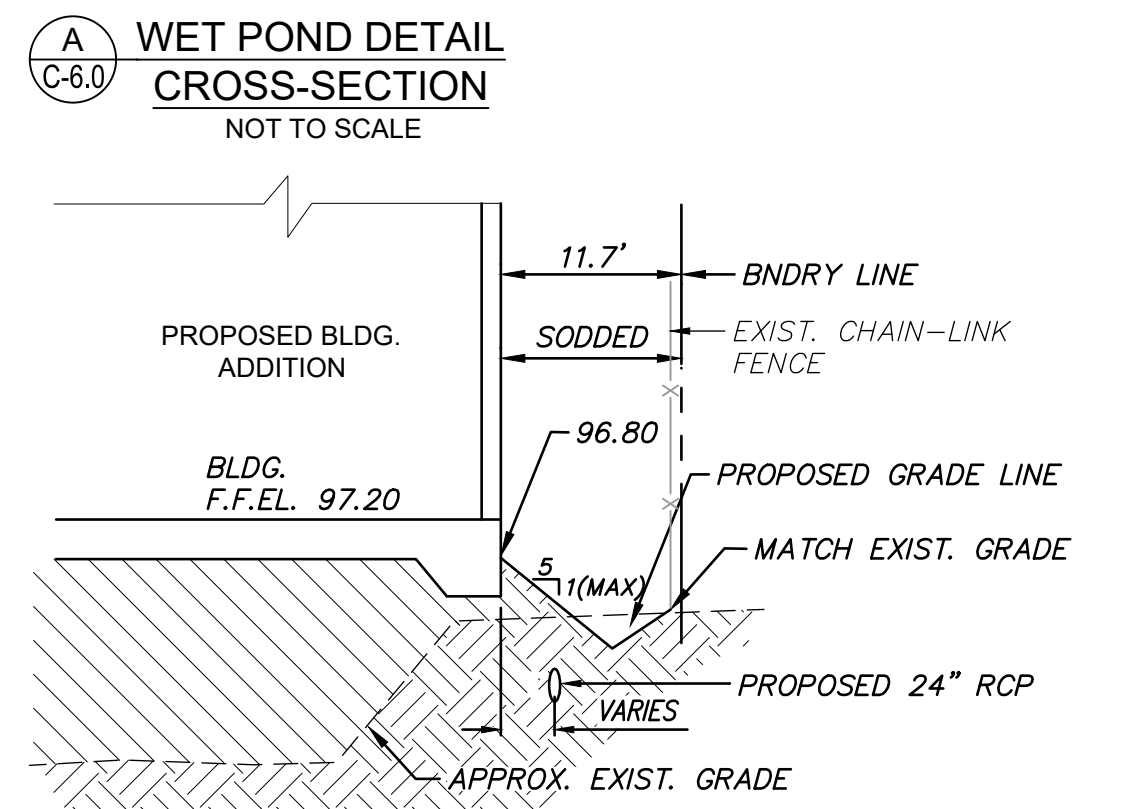
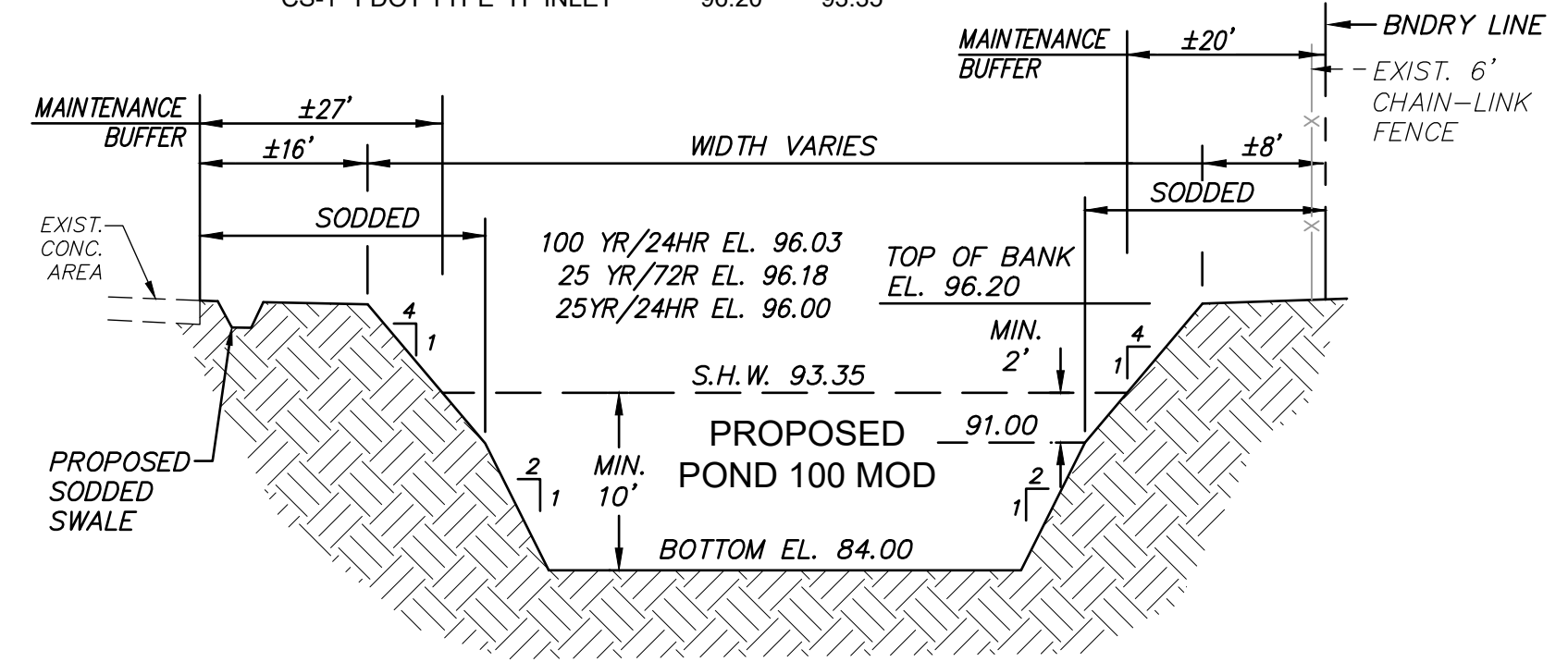


DISABLED PARKING SIGN
 NTS



STORM STRUCTURE TABLE:

ID	TYPE	TOP ELEV.	INVERT ELEV.
D-1	48" RCP MES (2:1)		87.00
D-2	STORM JUNCTION BOX TYPE-P (ALT. A) BOTTOM	96.50	89.20 (W - 48" RCP) (EX.) 88.20 (S - 48" RCP)
D-3	24" RCP MES (2:1)		88.00
D-4	STORM JUNCTION BOX TYPE-P (ALT. A) BOTTOM	96.60	91.60 (S - 24" RCP) 91.60 (E - 24" RCP)
D-5	24" RCP MES (2:1)		88.00
D-6	FDOT TYPE "C" INLET	96.50	90.50 (N - 24" RCP) 88.60 (SW - 24" RCP)
D-7	FDOT TYPE "C" INLET	95.20	91.60 (S - 24" RCP)
D-14	CONC. ENDWALL		93.20
CS-1	FDOT TYPE "H" INLET	96.20	93.35



- LEGEND:
- EXISTING CONCRETE AREA
 - PROPOSED CONCRETE
 - PROPOSED SPOT GRADE
 - DRAINAGE FLOW ARROW

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REGAL MARINE INDUSTRIES
 BOAT PRODUCTION
 EXPANSION
 BELLE ISLE
 2300 JETPORT DRIVE BELLE
 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

SEAL
 REVISIONS
 SCALE
 0' 15' 30' 60'
 SCALE: 1" = 30'

REVISIONS

NO.	DESCRIPTION	DATE

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 APPROVED BY _____ RM
 CHECKED BY _____ GL
 DATE _____ 9/6/2022
 TITLE _____

**BUILDING EXPANSION
 GRADING PLAN**

PROJECT NO. 50150413

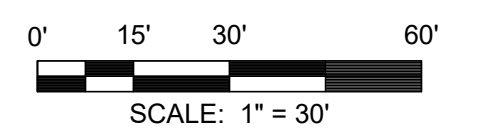
C-6.0

SHEET NO. _____ OF _____

SEAL

Reinaldo Malave
FL PE # 91588
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SCALE



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NO.	DESCRIPTION	DATE

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CHECKED BY _____ GL

DATE _____ 9 / 6 / 2022

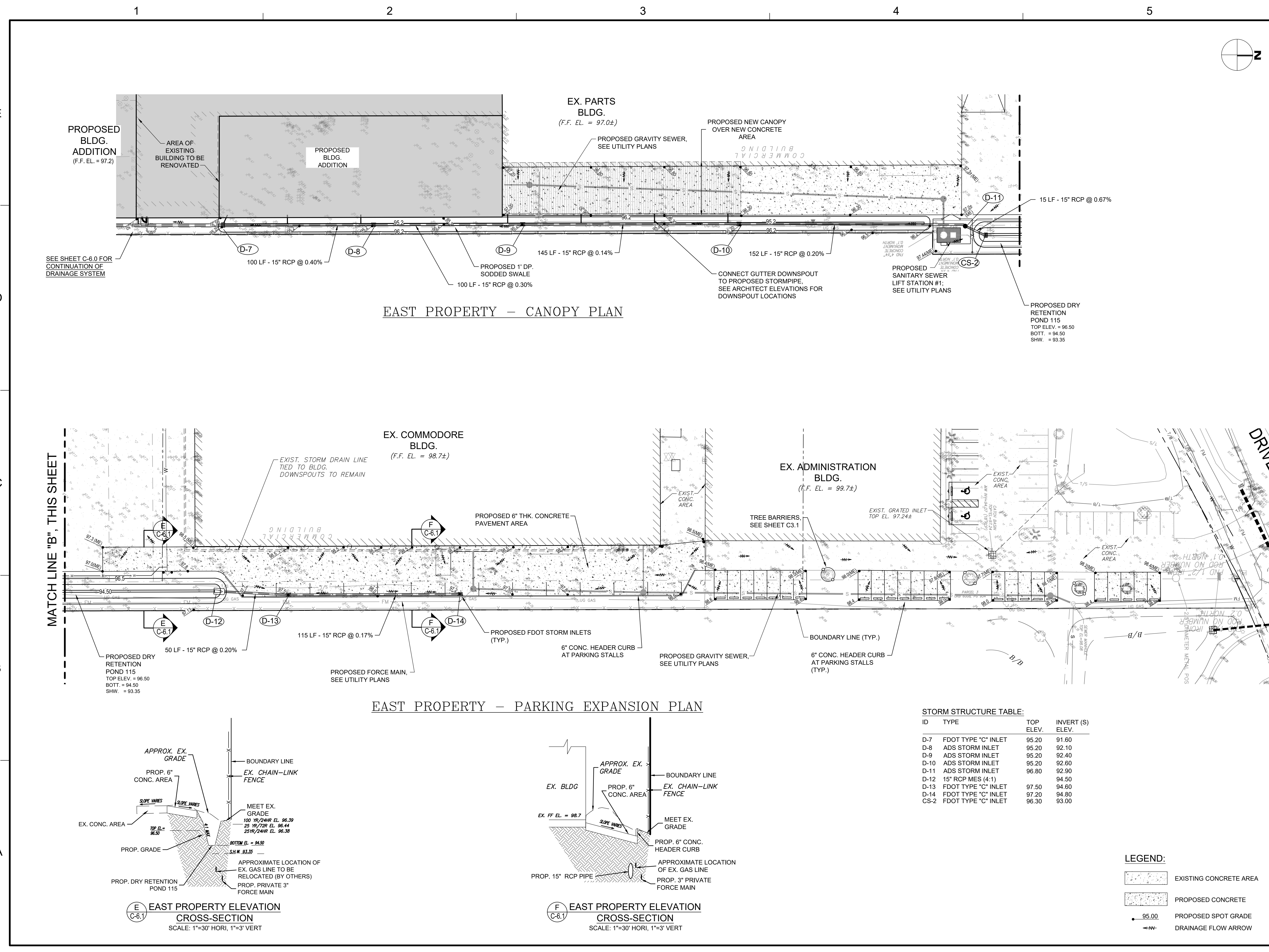
TITLE _____

PROPOSED CANOPY & PARKING EXPANSION AREA GRADING PLAN

PROJECT NO. 50150413

C-6.1

SHEET NO. _____ OF _____



STORM STRUCTURE TABLE:

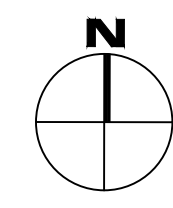
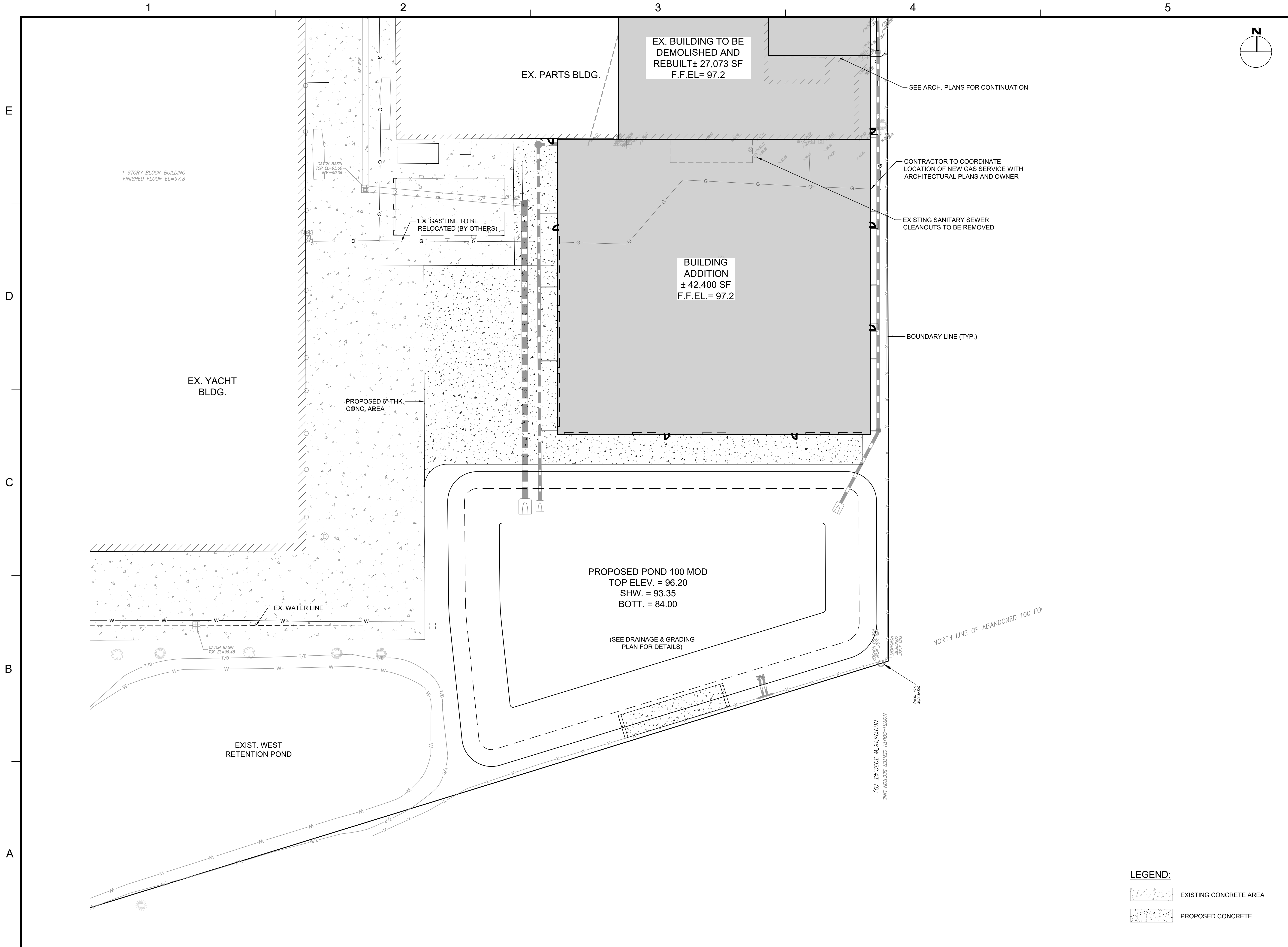
ID	TYPE	TOP ELEV.	INVERT (S) ELEV.
D-7	FDOT TYPE "C" INLET	95.20	91.60
D-8	ADS STORM INLET	95.20	92.10
D-9	ADS STORM INLET	95.20	92.60
D-10	ADS STORM INLET	95.20	92.60
D-11	ADS STORM INLET	96.80	92.00
D-12	15" RCP MES (4-1)	94.50	94.50
D-13	FDOT TYPE "C" INLET	97.50	94.60
D-14	FDOT TYPE "C" INLET	97.20	94.80
CS-2	FDOT TYPE "C" INLET	96.30	93.00

LEGEND:

- EXISTING CONCRETE AREA
- PROPOSED CONCRETE
- 95.00 PROPOSED SPOT GRADE
- DRAINAGE FLOW ARROW

E EAST PROPERTY ELEVATION CROSS-SECTION
SCALE: 1"=30' HORI, 1"=3' VERT

F EAST PROPERTY ELEVATION CROSS-SECTION
SCALE: 1"=30' HORI, 1"=3' VERT



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 BELLE ISLE
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 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

SEAL
 Reinardo Malave
 FL PE # 91588
 Feb. 24, 2023

SCALE
 0' 50' 100' 200'
 SCALE: 1" = 100'

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ GL
 APPROVED BY _____ RM
 CHECKED BY _____ GL
 DATE _____ 9 / 6 / 2022
 TITLE _____

**BUILDING
 EXPANSION
 UTILITY PLAN**

PROJECT NO. 50150413

C-7.0

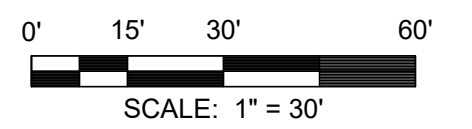
SHEET NO. _____ OF _____

LEGEND:
 EXISTING CONCRETE AREA
 PROPOSED CONCRETE

SEAL

Reinaldo Malave
FL PE # 91588
Feb. 24, 2023

SCALE



REVISIONS

NO.	DESCRIPTION	DATE
1	REVISED PER CITY OF ORLANDO COMMENTS	10/1/22

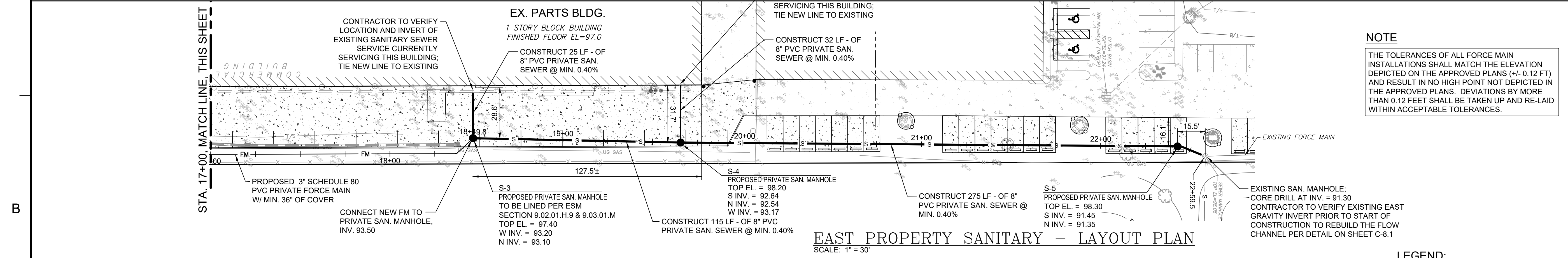
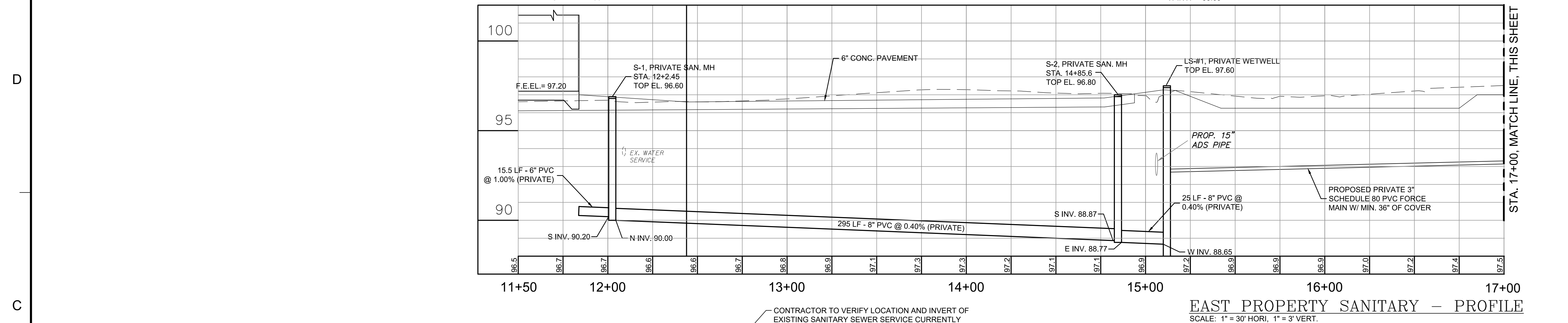
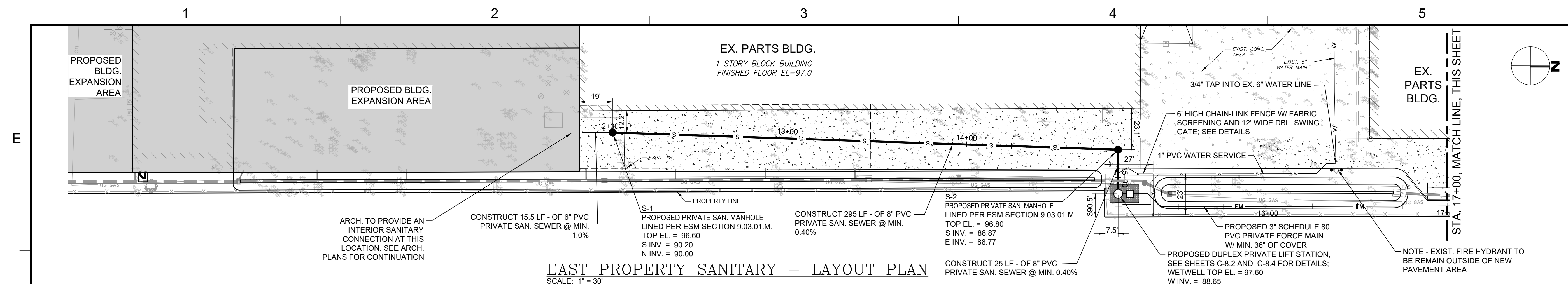
DRAWN BY _____ GL
APPROVED BY _____ RM
CHECKED BY _____ GL
DATE _____ 9/6/2022
TITLE _____

**PROPOSED
SANITARY SEWER
PLAN & PROFILES**

PROJECT NO. 50150413

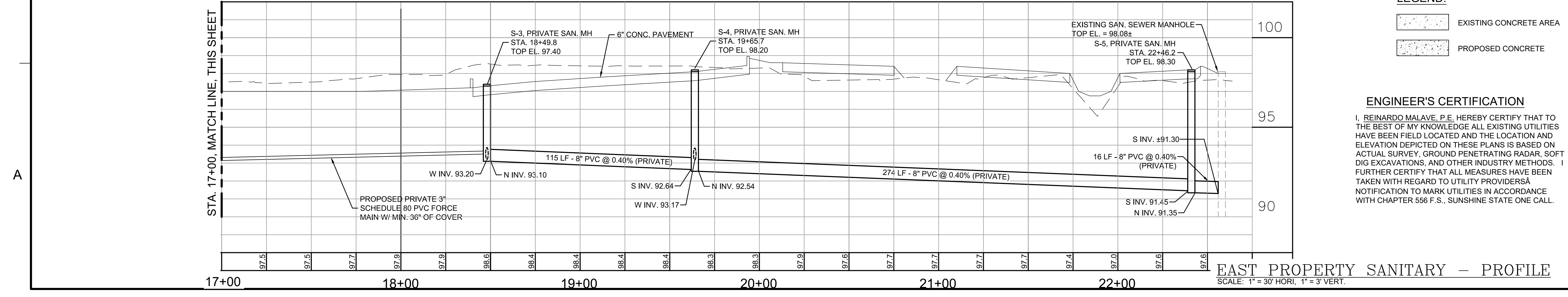
C-7.1

SHEET NO. _____ OF _____



NOTE
THE TOLERANCES OF ALL FORCE MAIN INSTALLATIONS SHALL MATCH THE ELEVATION DEPICTED ON THE APPROVED PLANS (+/- 0.12 FT) AND RESULT IN NO HIGH POINT NOT DEPICTED IN THE APPROVED PLANS. DEVIATIONS BY MORE THAN 0.12 FEET SHALL BE TAKEN UP AND RE-LAID WITHIN ACCEPTABLE TOLERANCES.

LEGEND:
EXISTING CONCRETE AREA
PROPOSED CONCRETE



APPENDIX A STANDARD DRAWINGS

OCU GENERAL NOTES

- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF INCLUDING, BUT NOT LIMITED TO, WATER MAINS, WASTEWATER FORCE MAINS, RECLAIMED WATER MAINS, ELECTRIC, GAS, CABLE TV, TELECOMMUNICATIONS, STORM WATER, FIBER OPTIC AND OTHER UNDERGROUND FACILITIES. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITIES.
- SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-836-2777) AND THE OCU INSPECTOR.
- THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTION SECTION, FIELD SERVICES DIVISION AT LEAST 10 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-8798.
- THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR IN ACCORDANCE WITH TABLE 4110-1 "UTILITIES SCHEDULE OF NOTIFICATIONS IN THIS MANUAL."
- THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE STANDARDS, CONSTRUCTION SPECIFICATIONS, AND APPENDIX D IN THIS MANUAL.
- ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO, WATER MAINS, FORCE MAINS, RECLAIMED WATER MAIN, SANITARY GRAVITY PIPES, STORM WATER PIPES, ELECTRIC, TELEPHONE, GAS, POLES AND STAYS, CABLE TV AND OTHER UTILITY FACILITIES WITHIN THE LIMITS OF THE PROJECT WILL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, CURBS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO, PIPES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS. ALL ADJUSTMENTS SHALL BE MADE TO CURRENT STANDARDS.
- ONLY OCU PERSONNEL SHALL OPERATE EXISTING OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING ANY NEWLY INSTALLED VALVE THAT HAS NOT BEEN CLEARED FOR USAGE BY FDEP AND OCU. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
- CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE AND WRITTEN NOTICE SHALL BE GIVEN TO AFFECTED CUSTOMERS AT LEAST 4 WORKING DAYS IN ADVANCE.
- THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND / OR HAULING OF WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS OR HAUL PLAN, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING AND TO THE INSPECTOR FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
- ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
- THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH AN APPROVED BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCE MAIN SHALL ALSO BE EQUIPPED WITH AN APPROVED BACKFLOW PREVENTER.
- FOR PVC PIPE, NO JOINT DEFLECTION OR PIPE BENDING IS ALLOWED. ALIGNMENT CHANGE SHALL BE MADE ONLY WITH FITTINGS.
- FOR DIP PIPE, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS FOR DIP PIPE SHALL BE AS PER ASHTO T-180. FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
- FOR APPROVED PVC OR HDPE PIPE USED IN A HORIZONTAL DIRECTIONAL DRILL INSTALLATION, THE CURVATURE AND/OR DEFLECTION SHALL NOT EXCEED THE PARAMETERS ESTABLISHED IN THIS MANUAL.
- ALL DAMAGE TO EXISTING UTILITIES, PIPES, AND ASSETS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH AN APPROVED METHOD BY THE COUNTY. IF THE REPAIR IS NOT PERFORMED IN A TIMELY MANNER AS DETERMINED BY THE ORANGE COUNTY UTILITY INSPECTOR, ORANGE COUNTY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
- THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL SANITARY SEWER OVERFLOWS (SSO) ASSOCIATED WITH THE WORK, REGARDLESS OF FAULT. THE CONTRACTOR WILL BE ASSESSED PENALTIES FOR ANY AND EACH SSO AS SPECIFIED IN SECTION 3110, GENERAL CONSTRUCTION REQUIREMENTS.

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE GN 10/10/2021

APPENDIX A STANDARD DRAWINGS

BEDDING & TRENCHING - TYPE A

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A101 10/10/2021

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

METER INSTALLATION DETAIL - 1 1/2\"/> ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL FIGURE A130 10/10/2021

APPENDIX A STANDARD DRAWINGS

VERTICAL PIPELINE SEPARATION REQUIREMENTS

VERTICAL SEPARATION REQUIREMENTS (NOTES 1 & 2)

PROPOSED UTILITY	POTABLE WATER (NOTE 4)	RECLAIMED WATER MAIN	WASTEWATER FORCEMAIN	SANITARY SEWER	STORM SEWER (NOTE 3)
POTABLE WATER (NOTE 4)	12"	12"	12" / 18"	12" / 18"	12" / 18"
RECLAIMED WATER MAIN	12"	12"	12"	12"	12" / 18"
WASTEWATER FORCEMAIN	12"	12"	12"	12"	12" / 18"
SANITARY SEWER	12" / 18"	12"	12"	12"	12" / 18"

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A116-2 10/10/2021

APPENDIX A STANDARD DRAWINGS

DOUBLE DETECTOR CHECK VALVE ASSEMBLY

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A202 10/10/2021

APPENDIX A STANDARD DRAWINGS

FIRE HYDRANT ASSEMBLY (STANDARD CONFIGURATION)

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A203-1 10/10/2021

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIRE LINE MASTER METER ASSEMBLY

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A204 10/10/2021

APPENDIX A STANDARD DRAWINGS

REDUCED PRESSURE BACKFLOW PREVENTER, 2\"/> ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL FIGURE A409-2 10/10/2021

Dewberry Engineers, Inc
800 N. Magnolia Avenue
Suite 1000
Orlando, FL 32803
407.843.5120
C.A. #8794

REGAL MARINE INDUSTRIES
BOAT PRODUCTION
EXPANSION
BELLE ISLE
2300 JETPORT DRIVE BELLE
CITY OF BELLE ISLE, FLORIDA

CONSTRUCTION PLANS

SEAL

SCALE

Reynolds Malave
FL PE # 91588
Feb. 24, 2023

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ GL

APPROVED BY _____ RM

CHECKED BY _____ GL

DATE _____ 9 / 6 / 2022

TITLE

WATER SERVICE DETAILS

PROJECT NO. 50150413

C-8.0

SHEET NO. OF

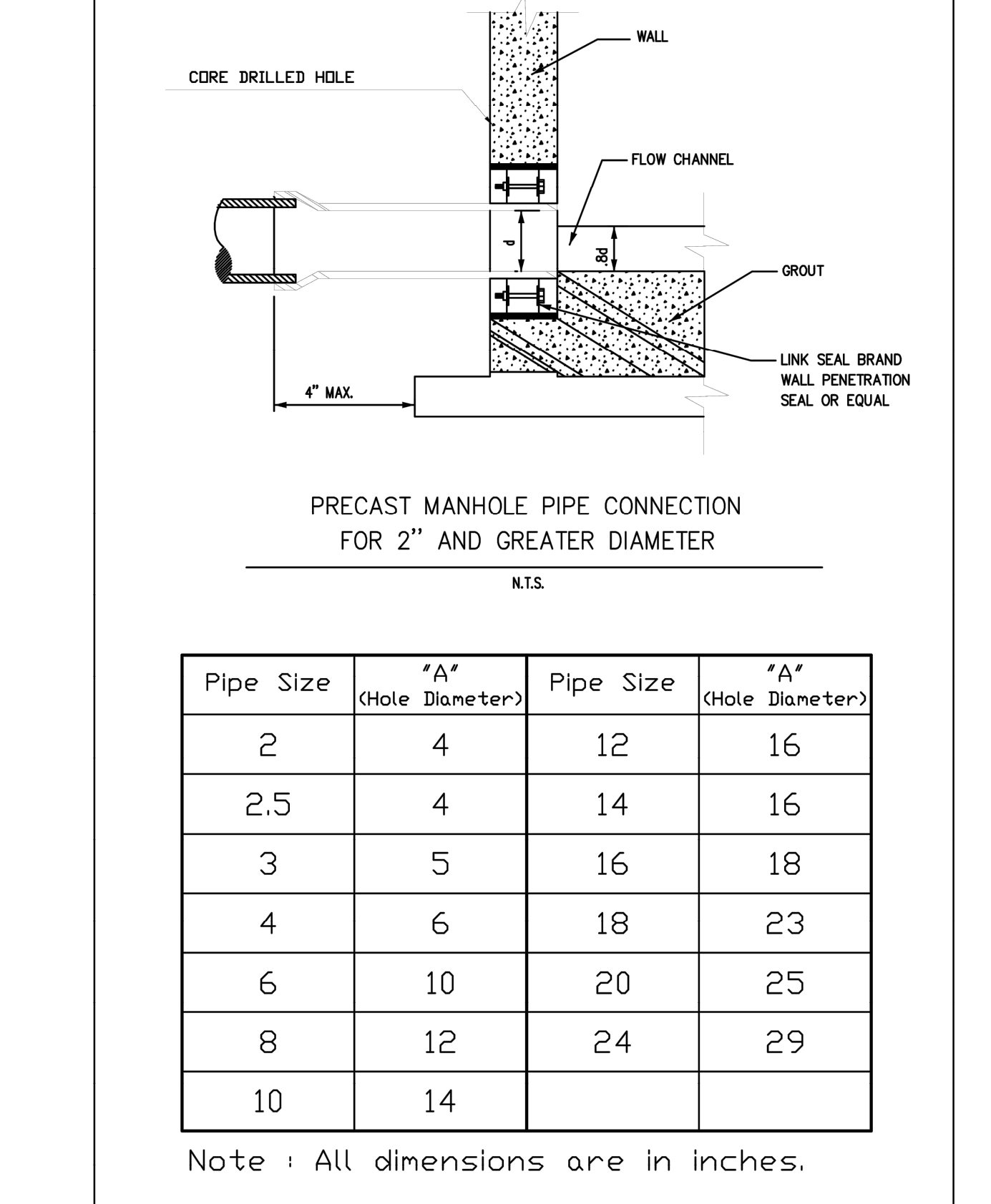
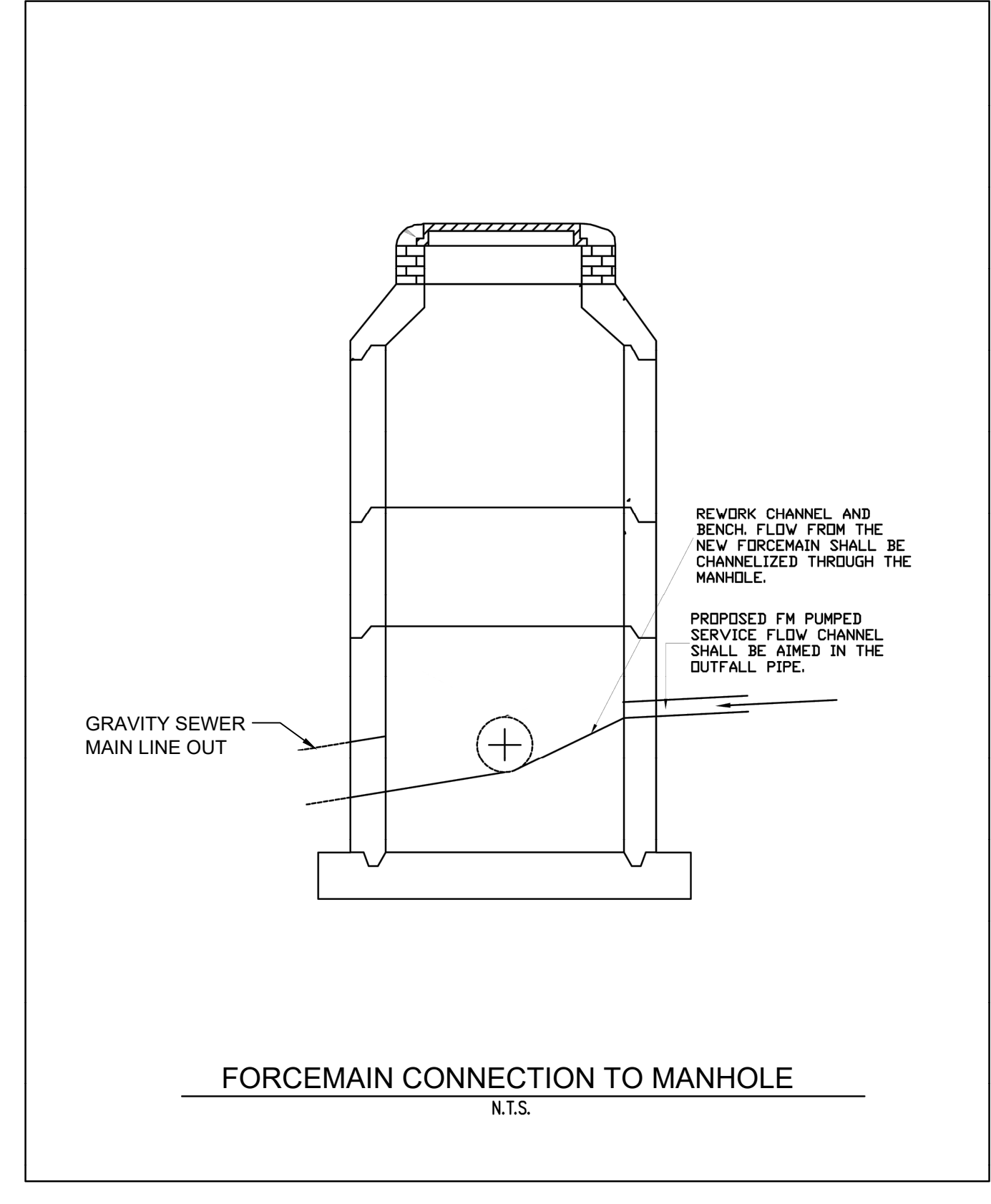
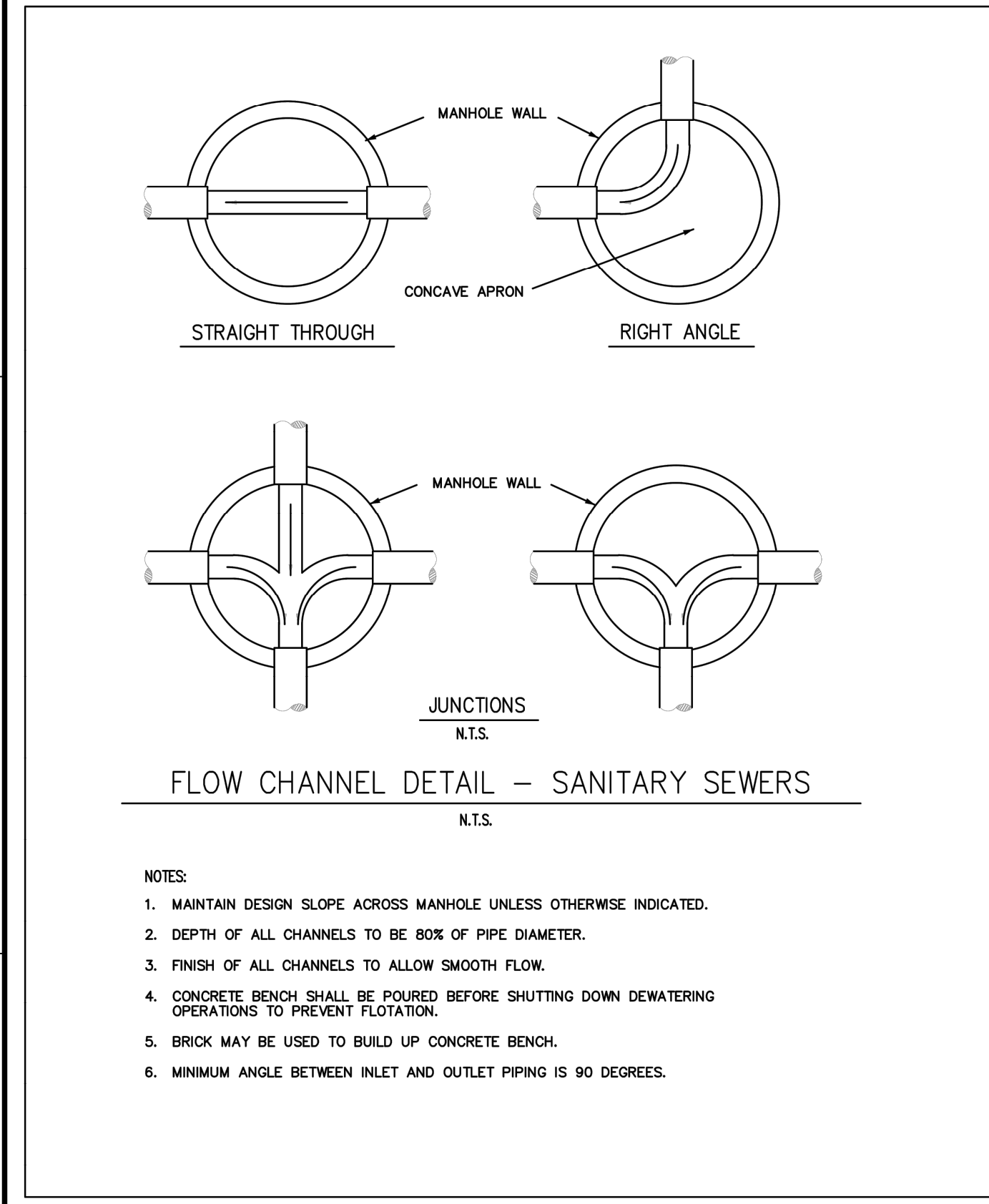
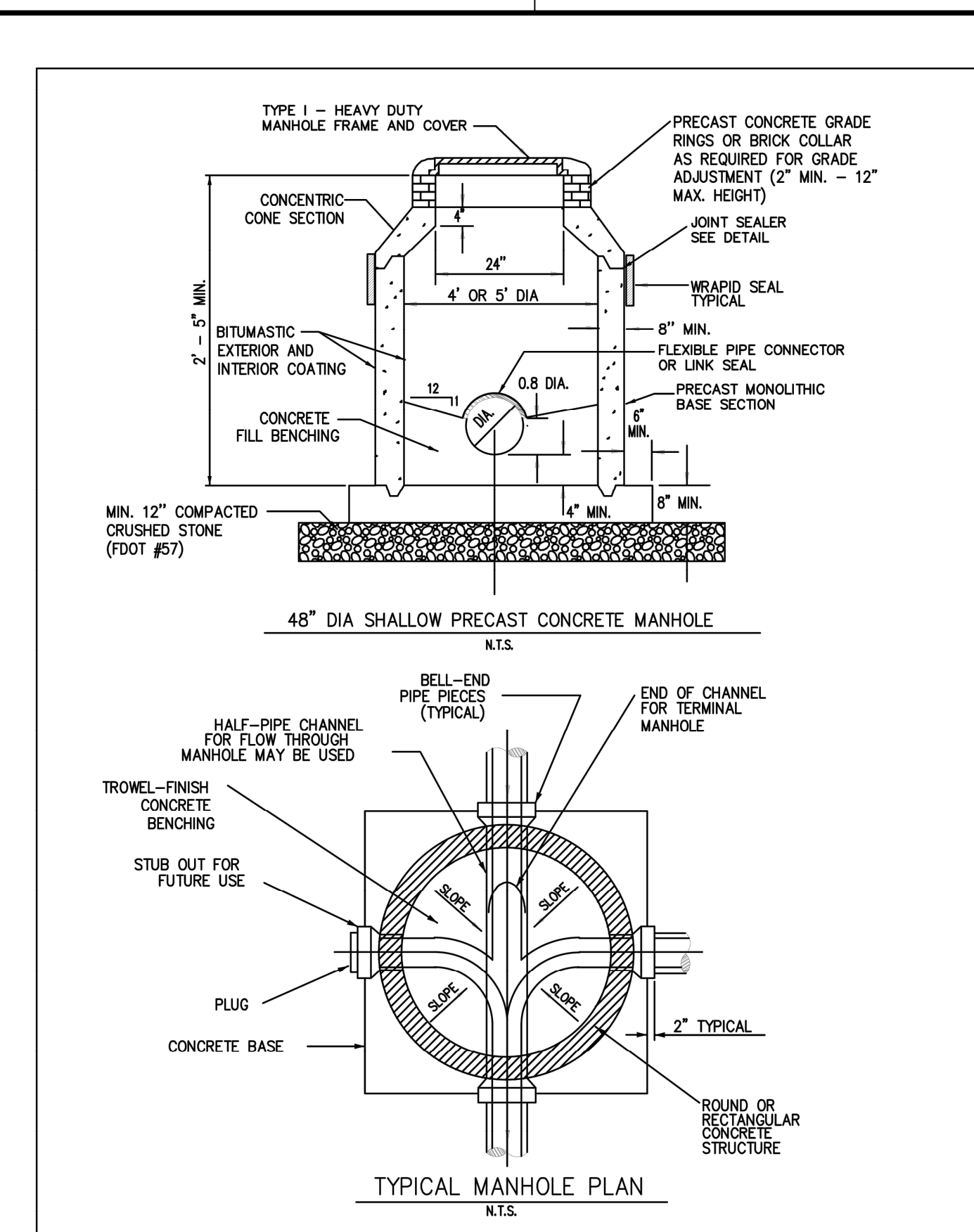
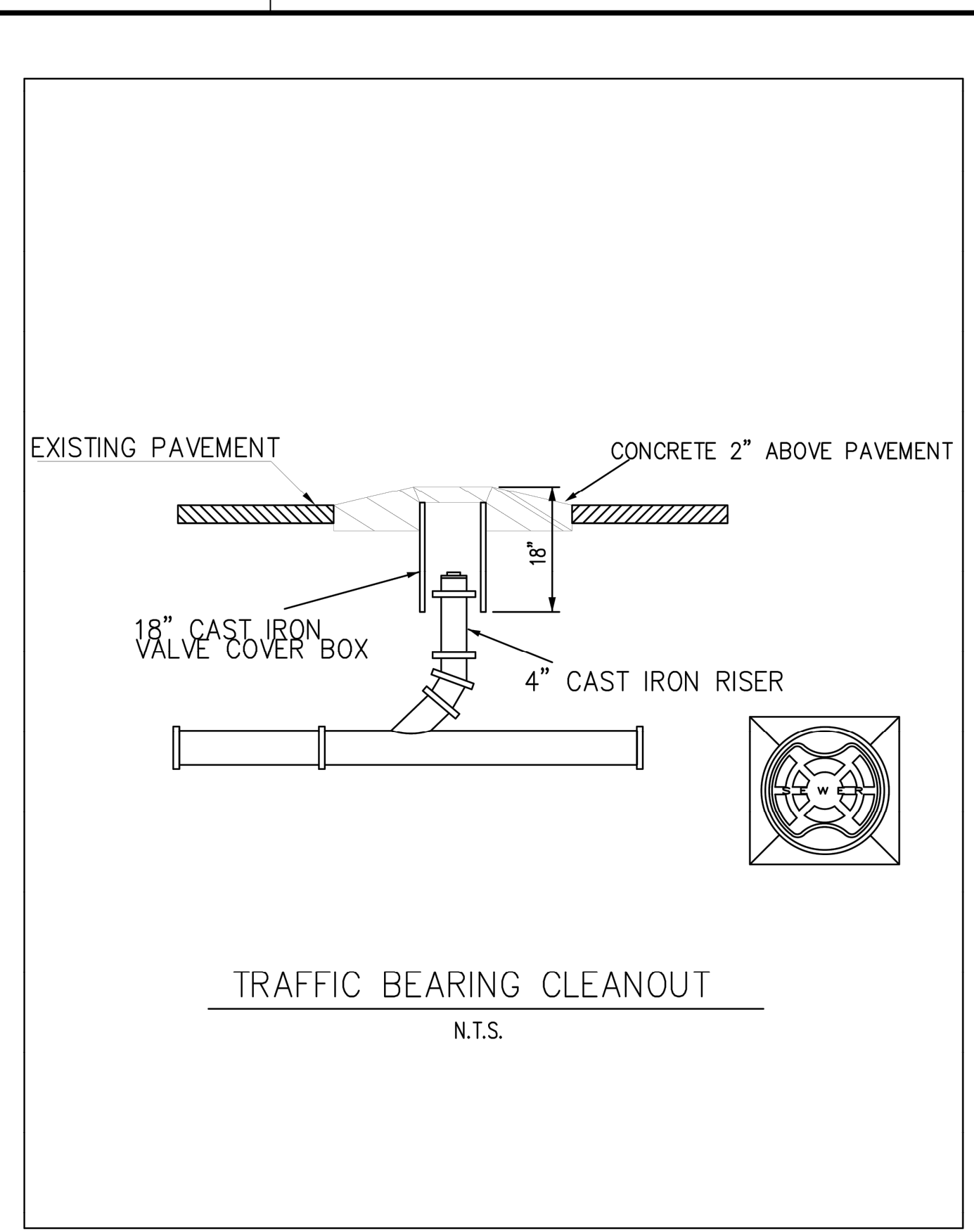
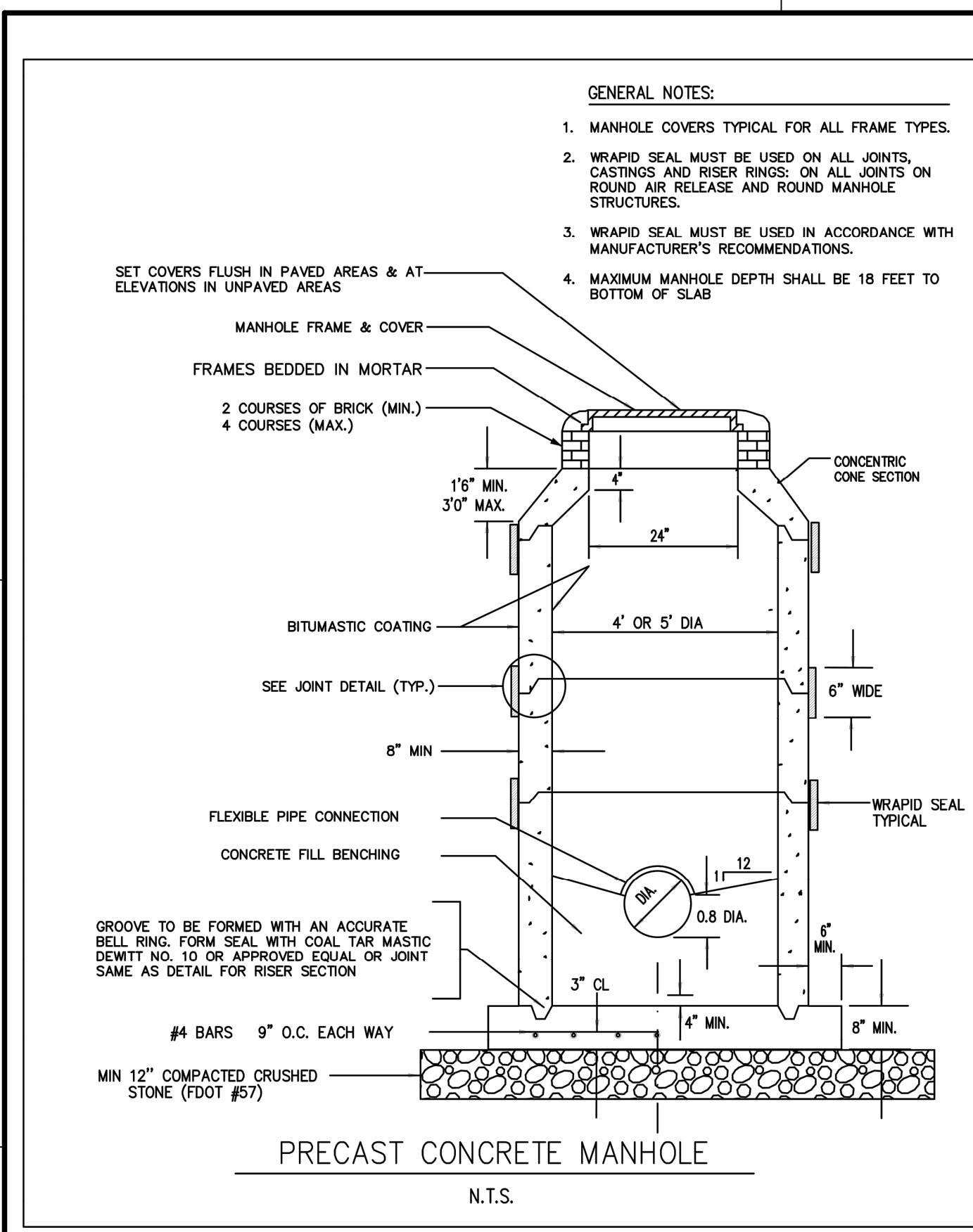
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Dewberry

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REGAL MARINE INDUSTRIES
BOAT PRODUCTION
EXPANSION
BELLE ISLE
2300 JETPORT DRIVE BELLE
CITY OF BELLE ISLE, FLORIDA

CONSTRUCTION PLANS

SEAL

Reinaldo Malave
FL PE # 91588
Feb. 24, 2023

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ GL
APPROVED BY _____ RM
CHECKED BY _____ GL
DATE _____ 9/6/2022
TITLE

**CITY OF ORLANDO
SANITARY SEWER
DETAILS**

DEPARTMENT OF PUBLIC WORKS
WASTEWATER BUREAU
CITY OF ORLANDO, FLORIDA

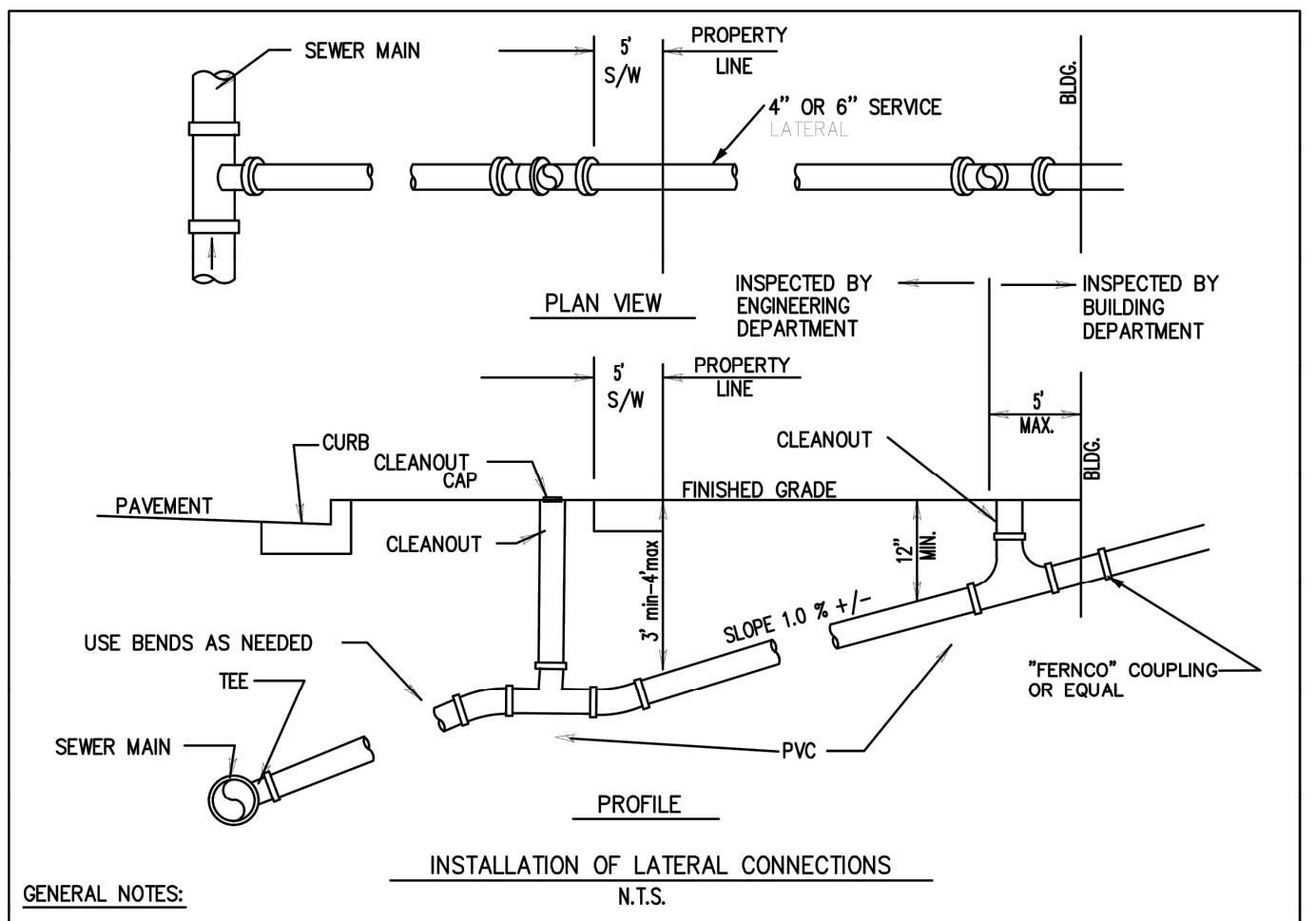
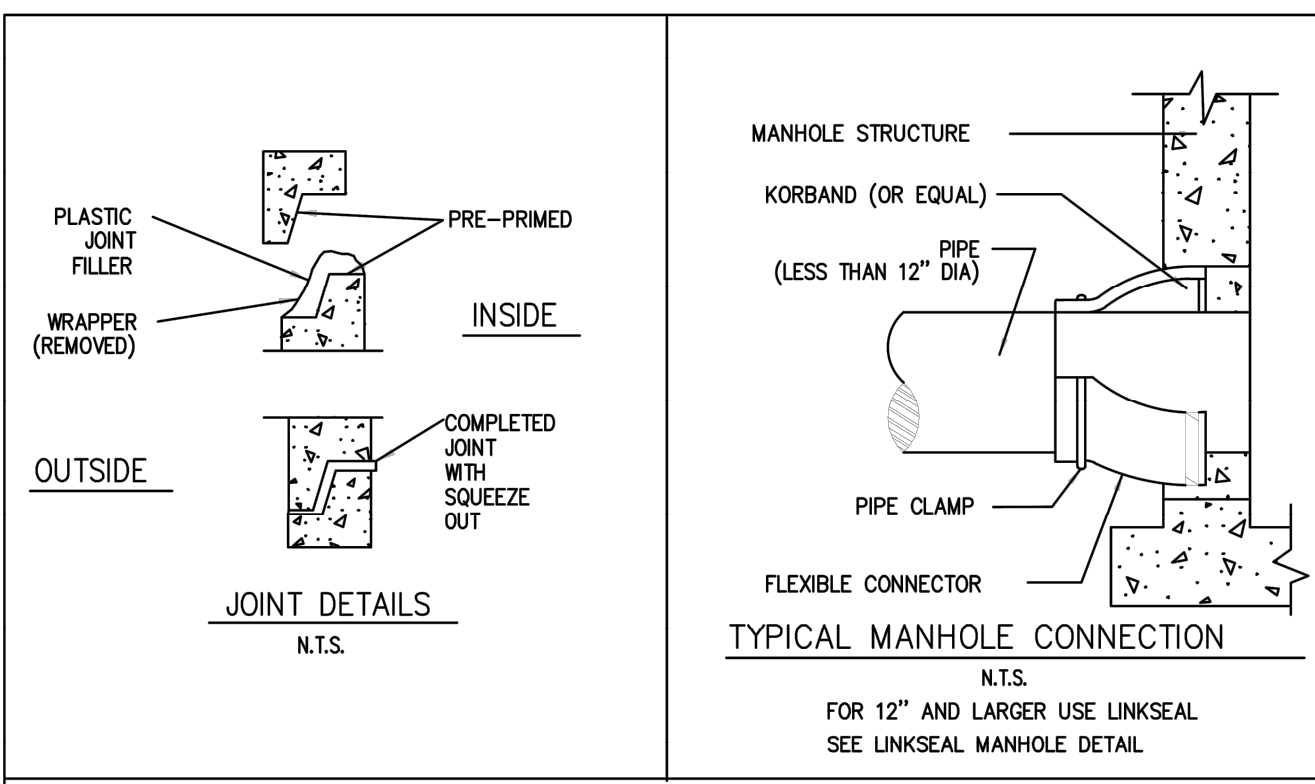
CITY OF ORLANDO, FLORIDA
THE CITY BEAUTIFUL

PROJECT NO. 50150413

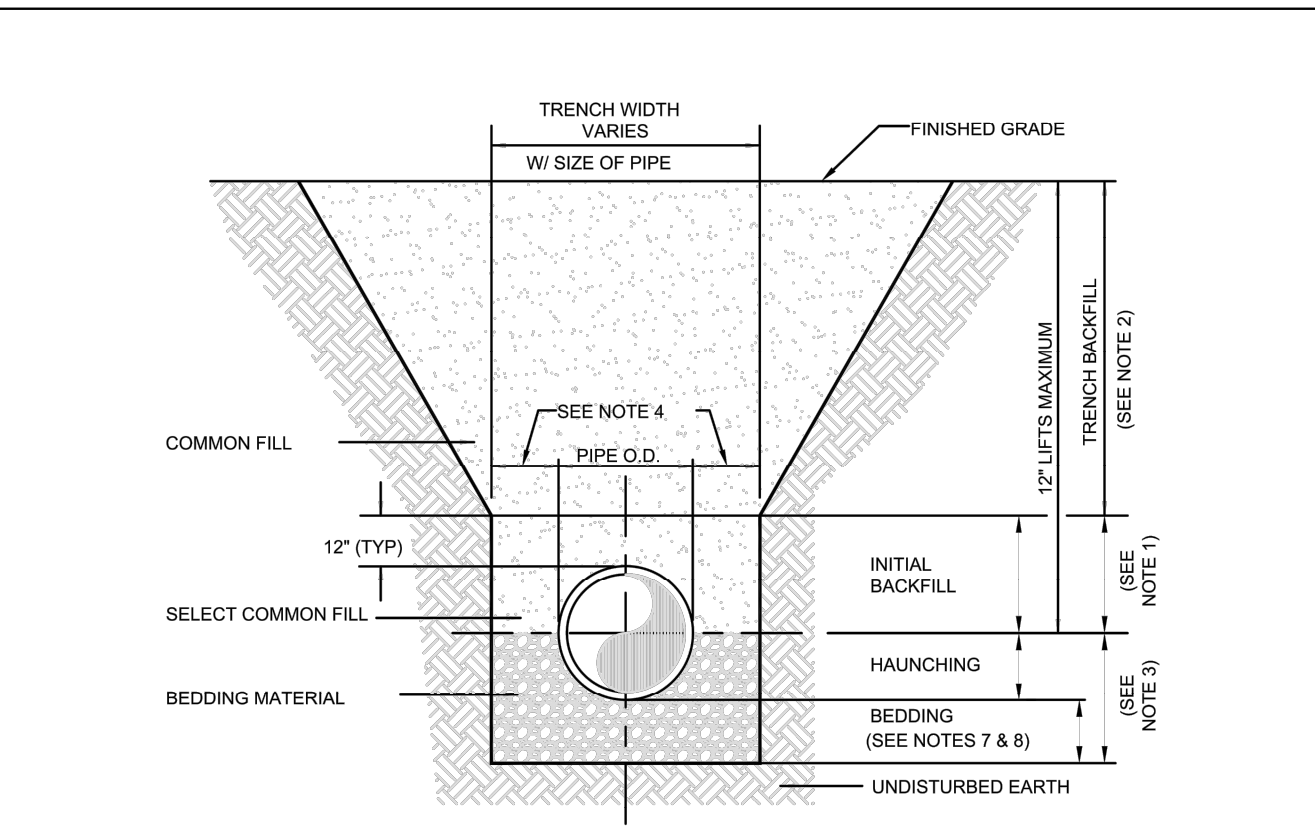
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SHEET NO. _____ OF _____

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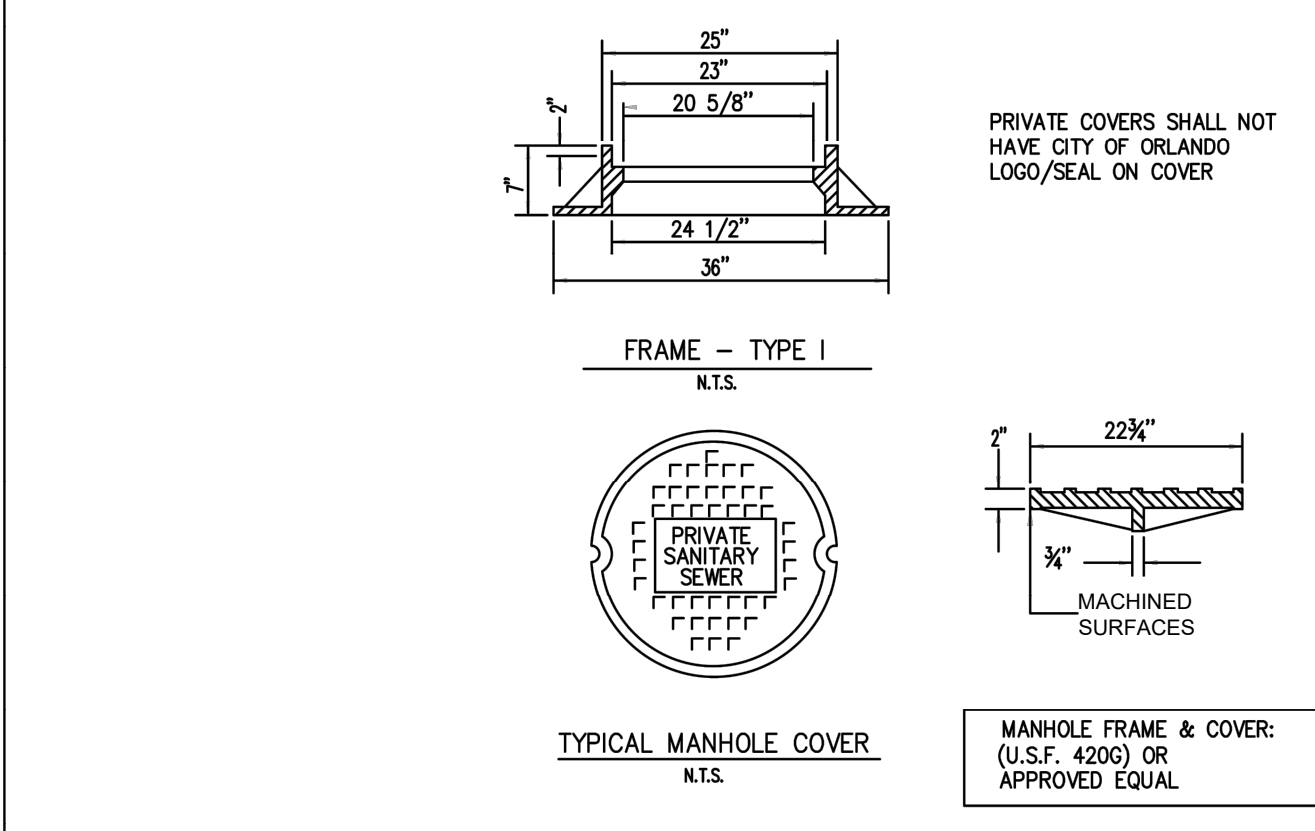


- GENERAL NOTES:**
- LATERAL INSTALLATION SHALL BEGIN AT A CITY SEWER CONNECTION POINT AND SHALL BE CONSTRUCTED BACK TO THE BUILDING AT A SLOPE SUFFICIENT TO YIELD A FLOW VELOCITY OF 2 FEET PER SECOND.
 - STREETSIDE CLEANOUT SHALL BE FORMED BY INSTALLING A TEE AND A BEND. TWO-WAY CLEANOUTS ARE ACCEPTABLE. NO WYE CONNECTIONS WILL BE ALLOWED.
 - BUILDING-SIDE CLEANOUT SHALL BE INSTALLED WITHIN 5 FEET OF THE BUILDING.
 - THE PIPE SECTION BETWEEN THE STREETSIDE CLEANOUT AND THE BUILDING CLEANOUT SHALL BE INSTALLED WITH AS FEW BENDS AS POSSIBLE. 90° BENDS IN THIS SECTION SHALL NOT BE ALLOWED. ALL BENDS, REGARDLESS OF THE ANGLE, SHALL HAVE A CLEANOUT.
 - LATERAL CONNECTIONS OF DISSIMILAR MATERIALS SHALL BE CONNECTED UTILIZING TRANSITION ADAPTERS. TRANSITION GASKETS AND/OR FERROCO ADAPTERS ARE ACCEPTABLE.
 - LATERAL CONNECTION OF LIKE MATERIALS SHALL UTILIZE REDUCERS AND/OR TRANSITION PIECES, ETC.
 - FIELD SOLVENT JOINTS ARE ACCEPTABLE.
 - CLEANOUT CAPS LOCATED IN DRIVEWAYS AND OTHER PAVED AREAS SHALL BE CAST-IN-PLACE RINGS WITH METAL COVERS STAMPED WITH THE WORD "SEWER", ALL OTHERS SHALL BE PVC WITH AN INVERTED HEX-NUT. PRE-APPROVAL BY CITY ENGINEER ONLY.
 - THERE SHALL BE NO DETECTABLE LEVEL OF INFILTRATION OR EXFILTRATION FROM THE SANITARY SYSTEM AT THE TIME OF INSPECTION. ANY EVIDENCE OF LEAKAGE MUST BE CORRECTED PRIOR TO ACCEPTANCE BY THE CITY.
 - USE 4" OR 6" PVC (SDR26) PIPE FOR LATERALS AS NOTED ON DRAWINGS AND IN SPECIFICATIONS. DIP SHALL BE USED FOR BURIAL DEPTHS LESS THAN 3 FEET AND AS DIRECTED BY THE WASTEWATER DIVISION.
 - LATERAL LOCATION NO MORE THAN 5' FROM PROPERTY LINE NOT IN DRIVEWAY OR APRON.

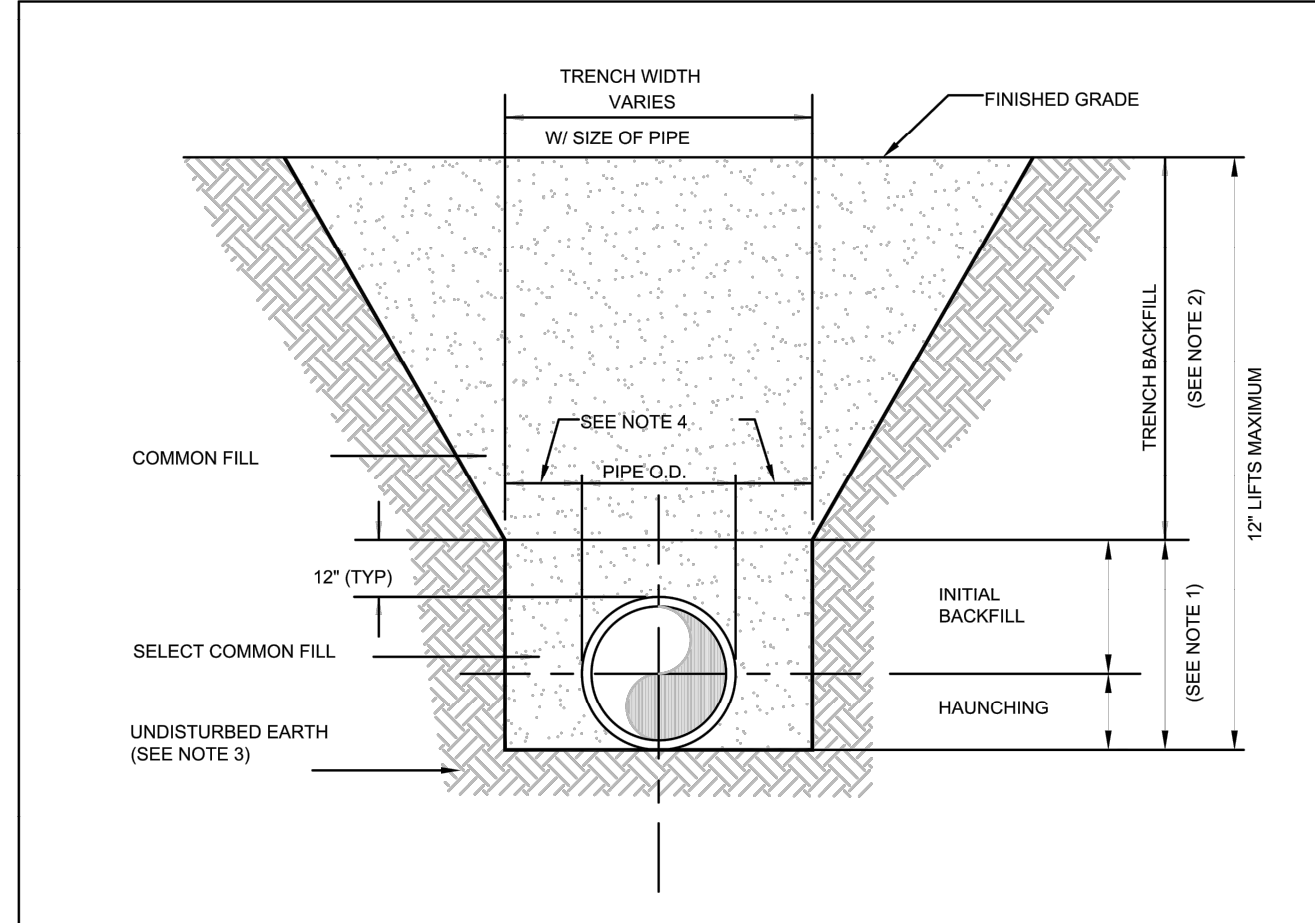


- NOTES:**
- INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TYPE A BEDDING MATERIAL SHALL CONFORM TO FOOT NO. 57 AGGREGATE.
 - 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (12" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 18" AND LARGER.
 - DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RW UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

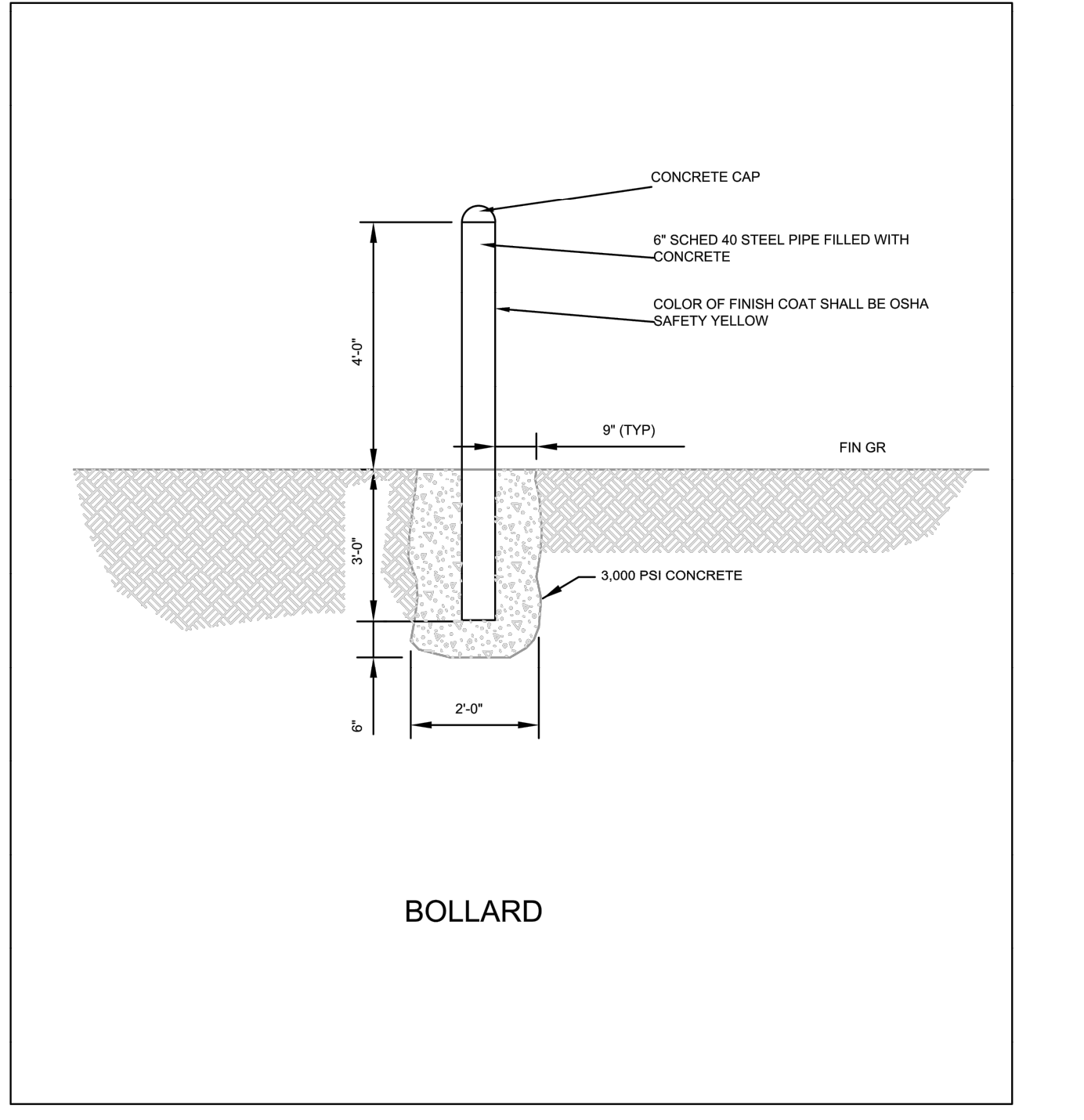
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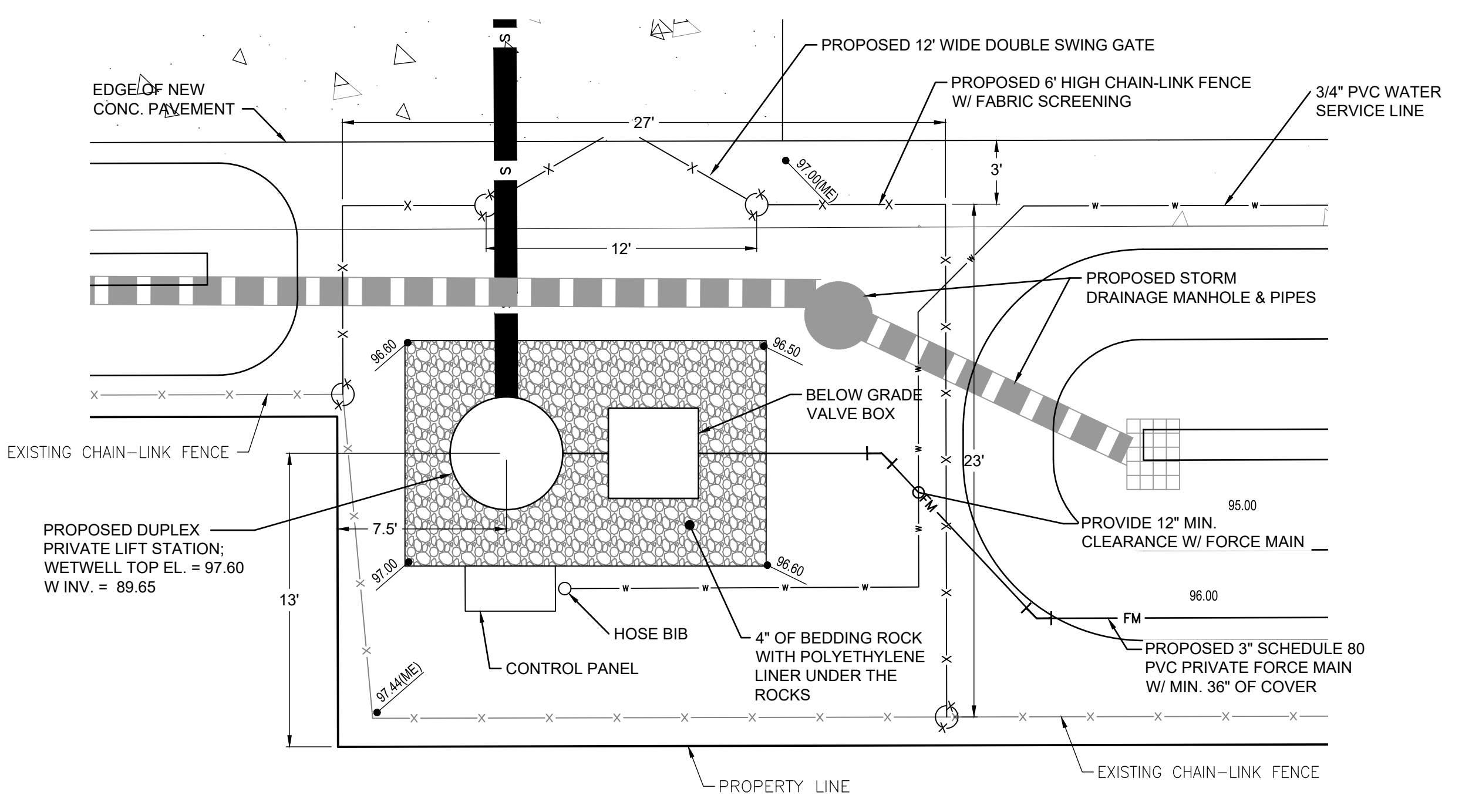
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- NOTES:**
- INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
 - 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (12" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.



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CITY OF ORLANDO, FLORIDA
DEPARTMENT OF PUBLIC WORKS
WASTEWATER BUREAU
CITY OF ORLANDO, FLORIDA

Dewberry

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Orlando, FL 32803
407.843.5120
C.A. #8794

REGAL MARINE INDUSTRIES
BOAT PRODUCTION
EXPANSION
BELLE ISLE
2300 JETPORT DRIVE BELLE
CITY OF BELLE ISLE, FLORIDA
CONSTRUCTION PLANS

SEAL

Reinaldo Malave
FL PE # 91588
Feb. 24, 2023

SCALE

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISED PER CITY OF ORLANDO COMMENTS	10/4/22

DRAWN BY _____ GL
APPROVED BY _____ RM
CHECKED BY _____ GL
DATE _____ 9 / 6 / 2022
TITLE _____

CITY OF ORLANDO
SANITARY SEWER
DETAILS

PROJECT NO. _____ 50150413

C-8.2

SHEET NO. _____ OF _____

General Notes

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

Project	#####	Sheet	8
Date	9/6/2022		
Scale	As Noted		

Complete system shall be supplied by:
 RILEY & Company, Inc.
 Sanford, FL 32773 (Ph. 407-265-9963)

NO SUBSTITUTIONS - NO ALTERNATES

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes A Written 20 Yr. Warranty. Certification of the wetwell H-20 load rating must be supplied with submittals. H-20 certification must be signed and sealed by an engineer registered in the State of Florida.

After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible.

PUMPS: (3 YEAR WARRANTY)

Submersible pumps shall be HOMA Model RC20056. The grinder pumps shall be installed in the H-20 GP FRP wetwell utilizing a dual slide rail system.

Stator winding shall be open type with Class H insulation and shall be heat-shrink fitted into the stator housing. The use of pins, bolts, or other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal. Two heat sensor thermostats shall be used on three phase motors.

The pump motor shaft shall be AISI 430F SS threaded to take the pump impeller.

Upper & lower mechanical seals shall be Silicon Carbide vs Silicon Carbide.

DUPLEX CONTROL PANEL: (3 YEAR WARRANTY)

To insure complete unit and warranty responsibility the electrical control panel must be manufactured and built by the pump supplier. The pump supplier must be a TUV (UL508A CERTIFIED) manufacturing facility, with a minimum of 5 years history in the manufacturing of electrical control panels.

The Enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep Marine Grade Aluminum with 4 point latching system.

The enclosure shall have external mounting feet to allow for wall mounting.

The following components shall be mounted through the enclosure:

- 1- ea. Red Alarm Beacon (Light) 4" x 4" Minimum Diameter
- 1- ea. Alarm Horn (minimum 95 DCB)
- 1- ea. Generator Receptacle w/ weatherproof cover(SCM460 -UL 1686)
- 1- ea. Alarm Silence Pushbutton

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel screws.

The following components shall be mounted to back panel:

- 1- ea. RILEY & COMPANY GUARD PRO III MONITORING SYSTEM
- 1- ea. Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
- 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)
- 1- ea. Silence Relay Module
- 1- ea. Duplex Alternator w/ Pump Selector Switch
- 1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger For The High Level Alarm System
- 20- ea. Terminals For Field Connections
- 6- ea. Terminals For Motor Connections (Single Phase Only)
- 7- ea. Grounding Lugs
- 1- ea. Seal Failure Relay

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:

- 1- ea. Main Circuit Breaker
- 1- ea. Emergency Circuit Breaker
- 1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
- 2- ea. Short Circuit Protectors w/ Auxiliary Contacts
- 1- ea. Control Circuit Breaker
- 2- ea. Seal Failure Indicator Lights
- 1- ea. Hand-Off-Auto Selector Switches
- 2- ea. Pump Run Pilot Lights
- 1- ea. Power On Pilot Light
- 2- ea. Elapse Time Meters (Non-Resettable)
- 1- ea. GFI Duplex Convenience Outlet

PUMP DATA		ELEVATIONS	
PRIMARY PUMP CAPACITY	84 GPM	TOP OF WETWELL	97.60
PRIMARY TDH	30 'TDH	INLET INVERT	89.65
PUMP MANUFACTURER	HOMA	HIGH LEVEL ALARM (HLA)	89.15
PUMP MODEL #	RC20056	2nd PUMP ON (LAG)	88.65
R.P.M.	3450	1st PUMP ON (LEAD)	88.15
HORSEPOWER	2.50	PUMPS OFF (OFF)	86.65
ELECTRICAL/ VOLTS / PHASE	230V/3	BOTTOM OF WETWELL	84.60
FULL LOAD AMPS/ PER PUMP	8.40	WETWELL DIAMETER	60"
PUMP DISCHARGE SIZE	2"		

NOTES:

1. Water service with hose bibb and reduced pressure backflow preventer to be installed near lift station. (See Electrical Riser Illustration)
2. System shall be operated and maintained to provide uninterrupted service as required by DEP Chapter 62-604.500.
3. Approved Operation & Maintenance Manual(O&M) shall be kept available for operation and maintenance personnel
4. A weather resistant emergency contact sign shall be installed at the lift station and made visible to the public (Lettering shall be min. 2" in height).
5. INSPECTION & TESTING: A factory representative shall be provided for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance for the complete lift station package.

CONTRACTOR To Provide Maintenance & Owner Info. Sign

PRIVATE SANITARY SEWER PUMP STATION

IN CASE OF EMERGENCY CONTACT THE FOLLOWING NUMBERS:

FACILITY OWNED BY: _____

NAME: _____

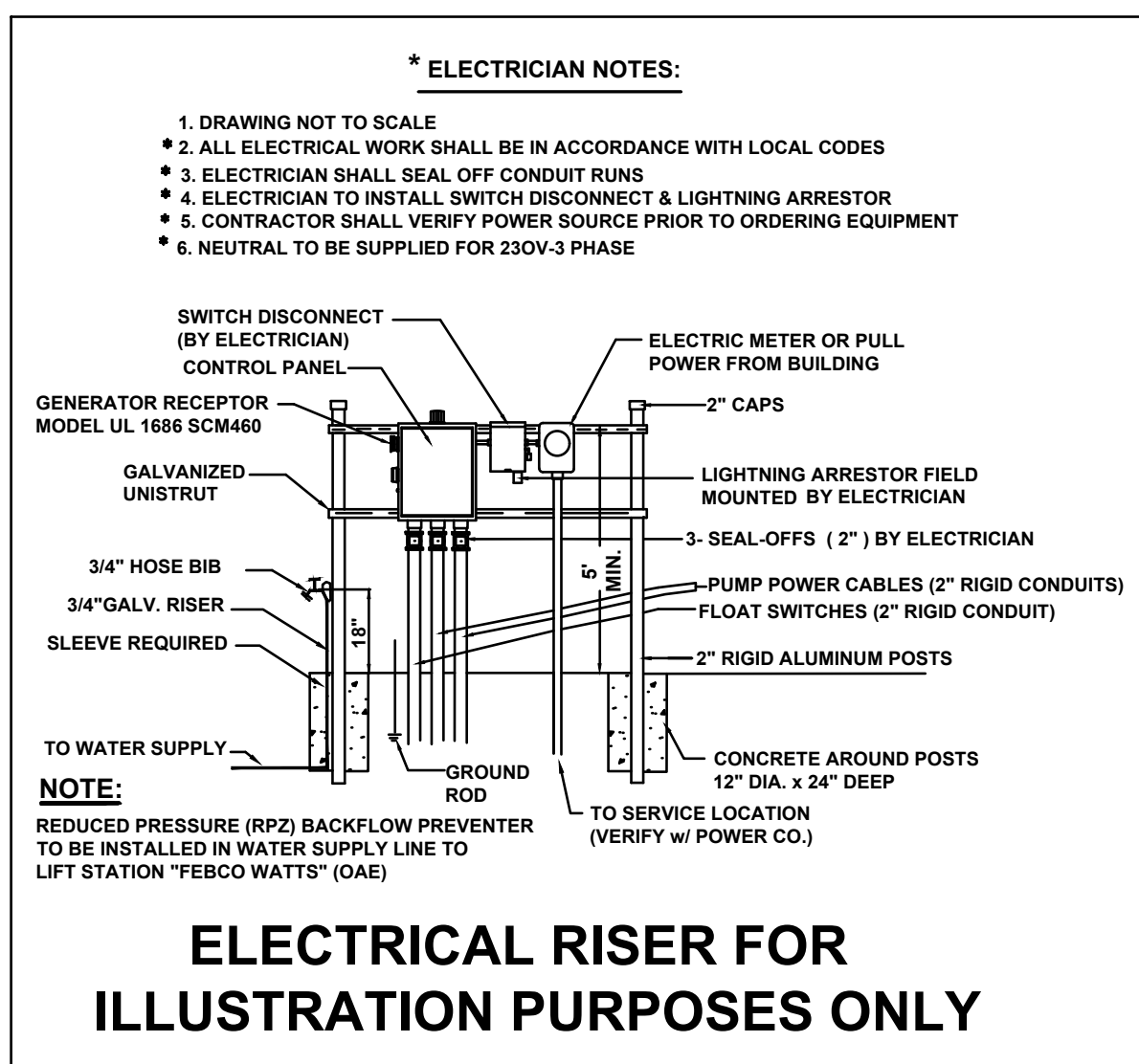
PHONE NUMBER: _____

FACILITY MAINTAINED BY: _____

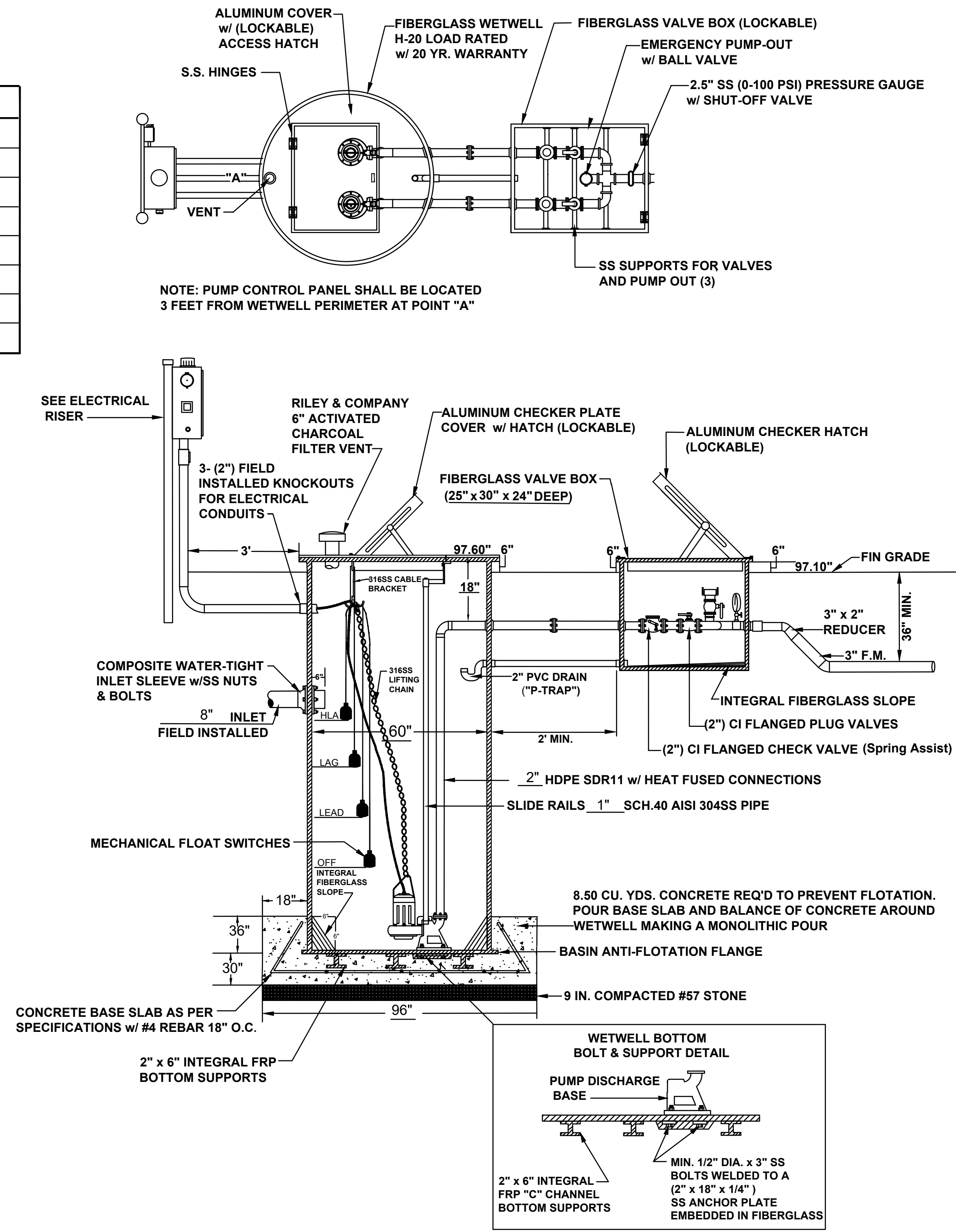
NAME: _____

PHONE NUMBER: _____

STATION NUMBER: _____



ELECTRICAL INFORMATION IS SHOWN FOR REFERENCE ONLY AND IS NOT INCLUDED AS PART OF THE ENGINEERING DESIGN OR CERTIFICATION BY PROFESSIONAL ENGINEER. ANY ELECTRICAL DESIGN NEEDED FOR THE LIFT STATION SHALL BE CONFIRMED AND CERTIFIED BY A PROFESSIONAL ELECTRICAL ENGINEER.



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REGAL MARINE INDUSTRIES
 BOAT PRODUCTION
 EXPANSION
 BELLE ISLE
 2300 JETPORT DRIVE BELLE
 CITY OF BELLE ISLE, FLORIDA
 CONSTRUCTION PLANS

SEAL

SCALE

Reynolds Malave
 FL PE # 91588
 Feb. 24, 2023

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISED PUMP STATION	10/4/22

DRAWN BY: _____ GL

APPROVED BY: _____ RM

CHECKED BY: _____ GL

DATE: 9/6/2022

TITLE

LIFT STATION DETAILS

PROJECT NO. 50150413

C-8.4

SHEET NO. OF

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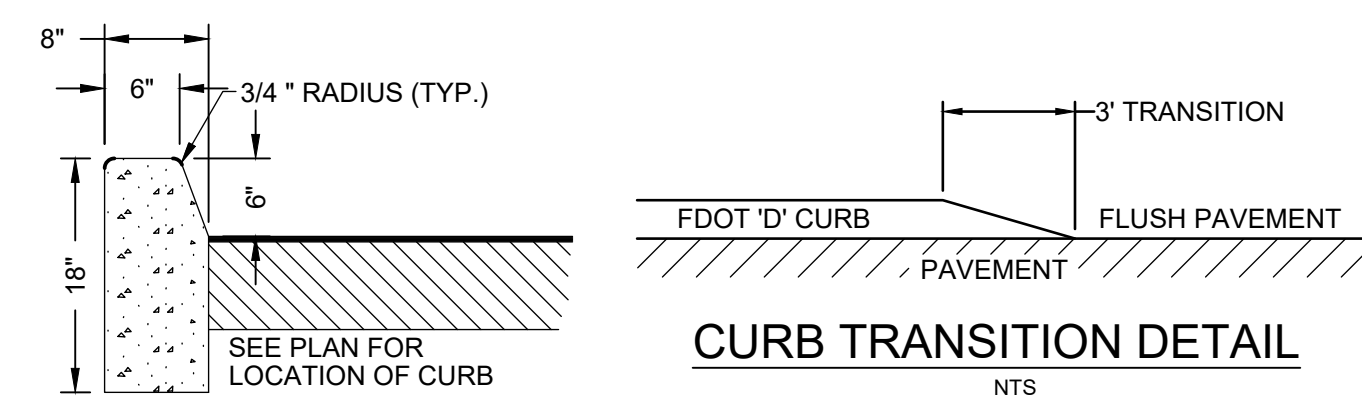
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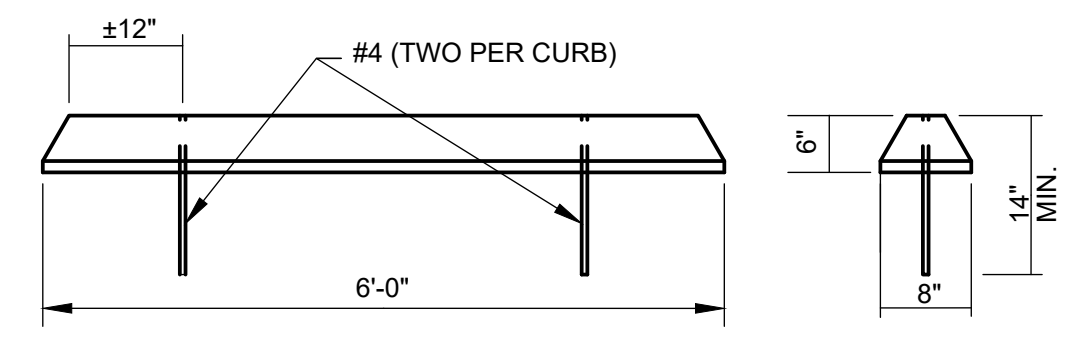
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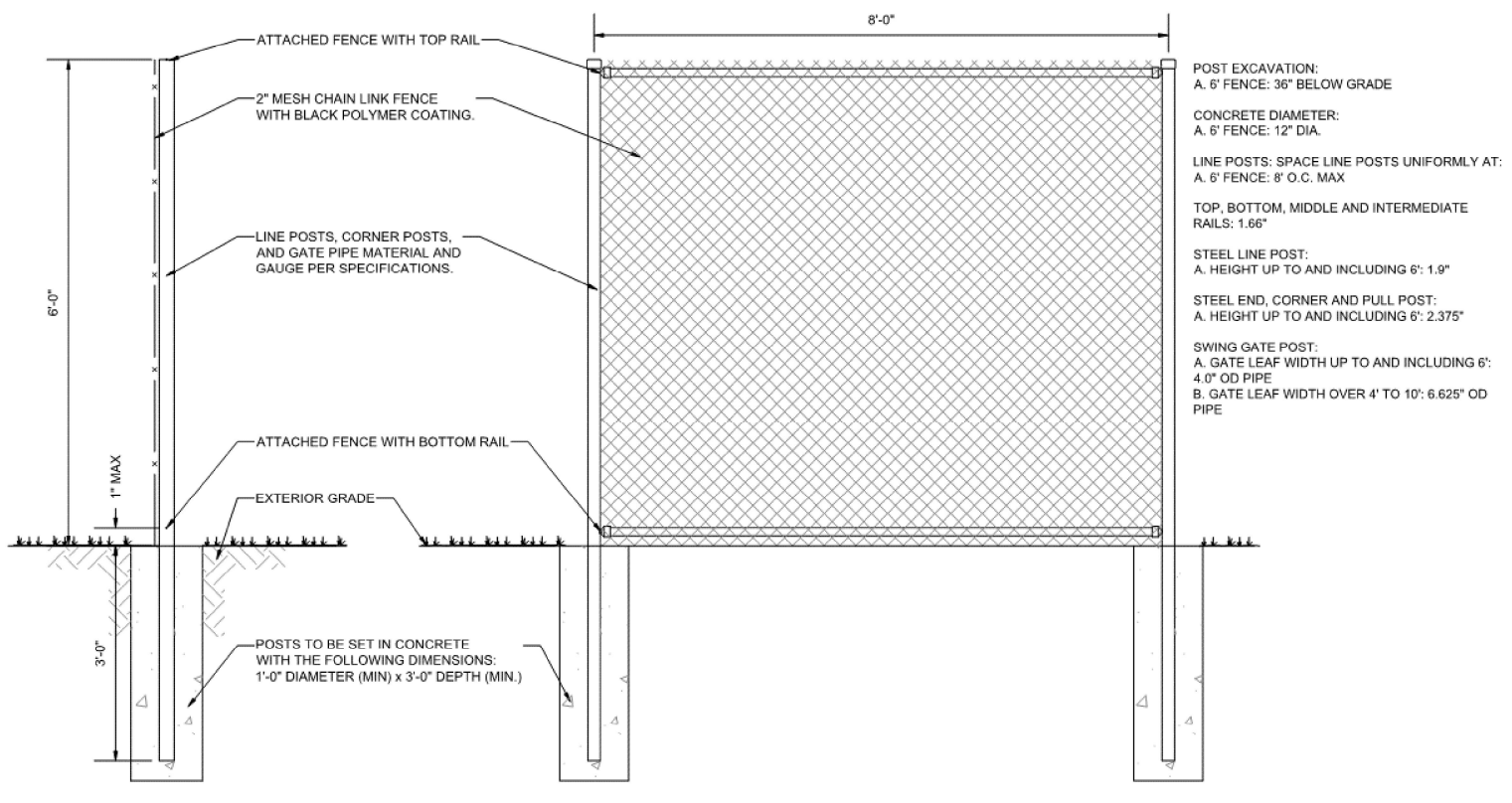
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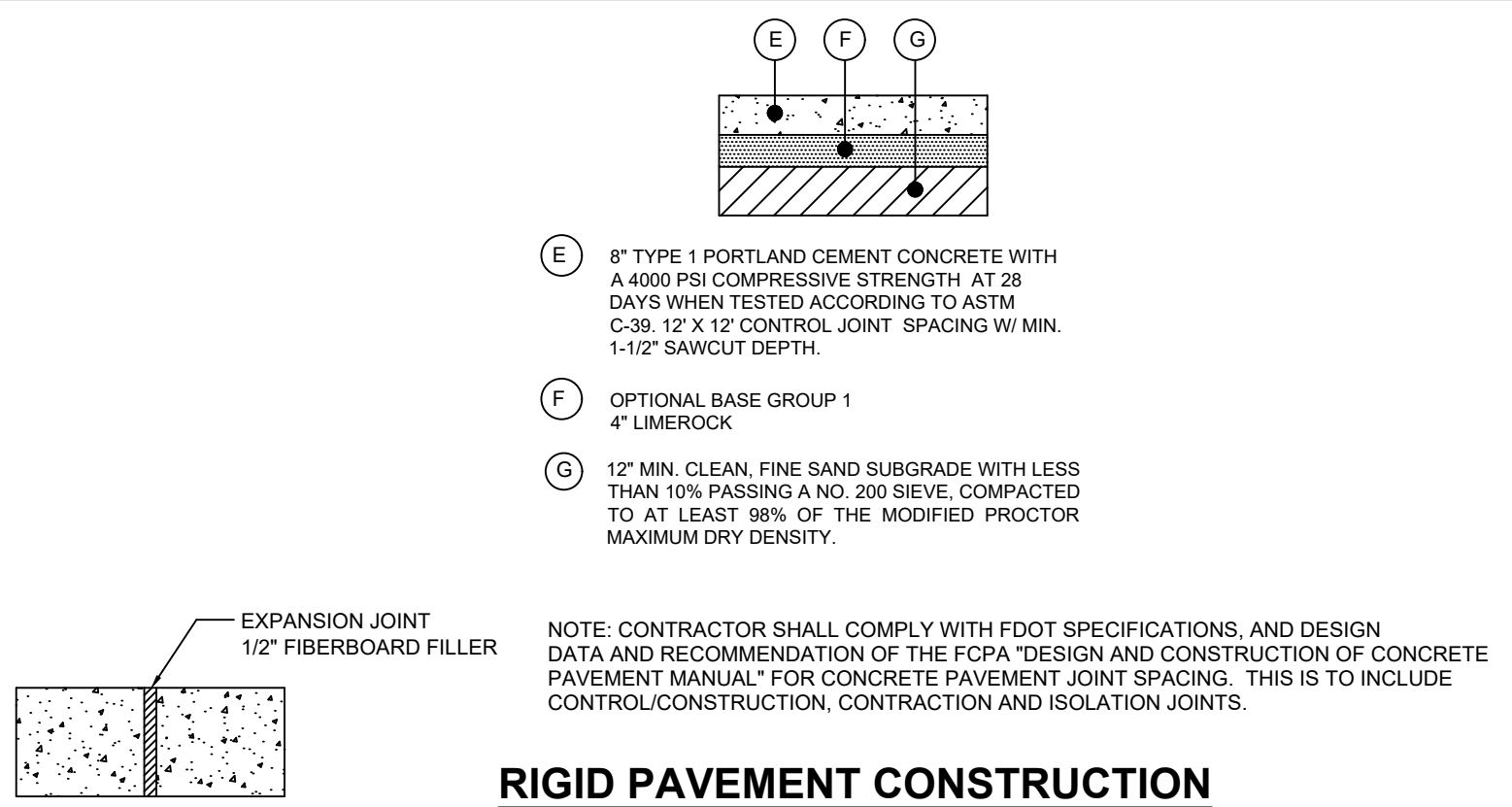
TYPE "D" CURB
NTS



WHEEL STOP BAR DETAIL
NTS



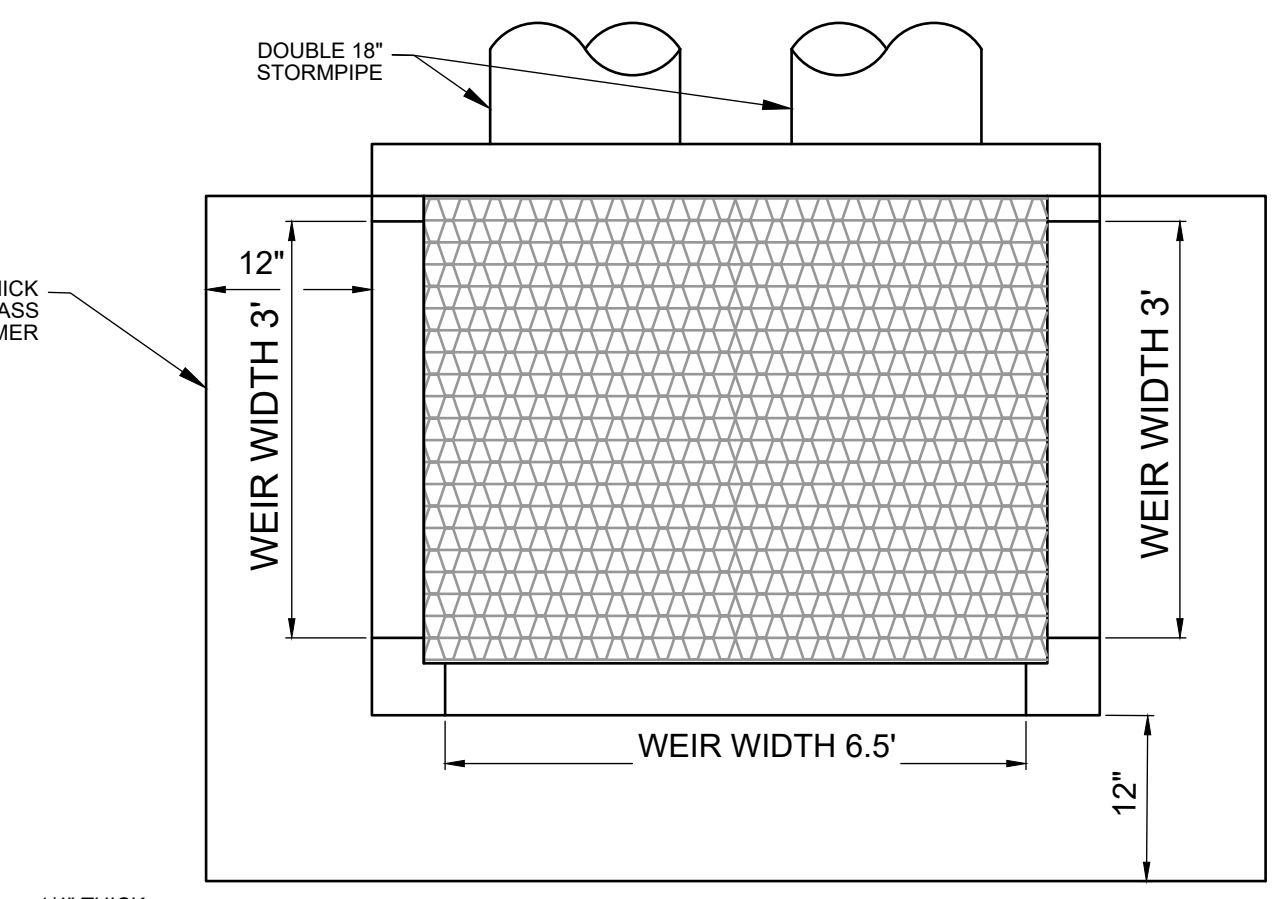
6" VINYL COATED CHAIN LINK FENCE
NTS



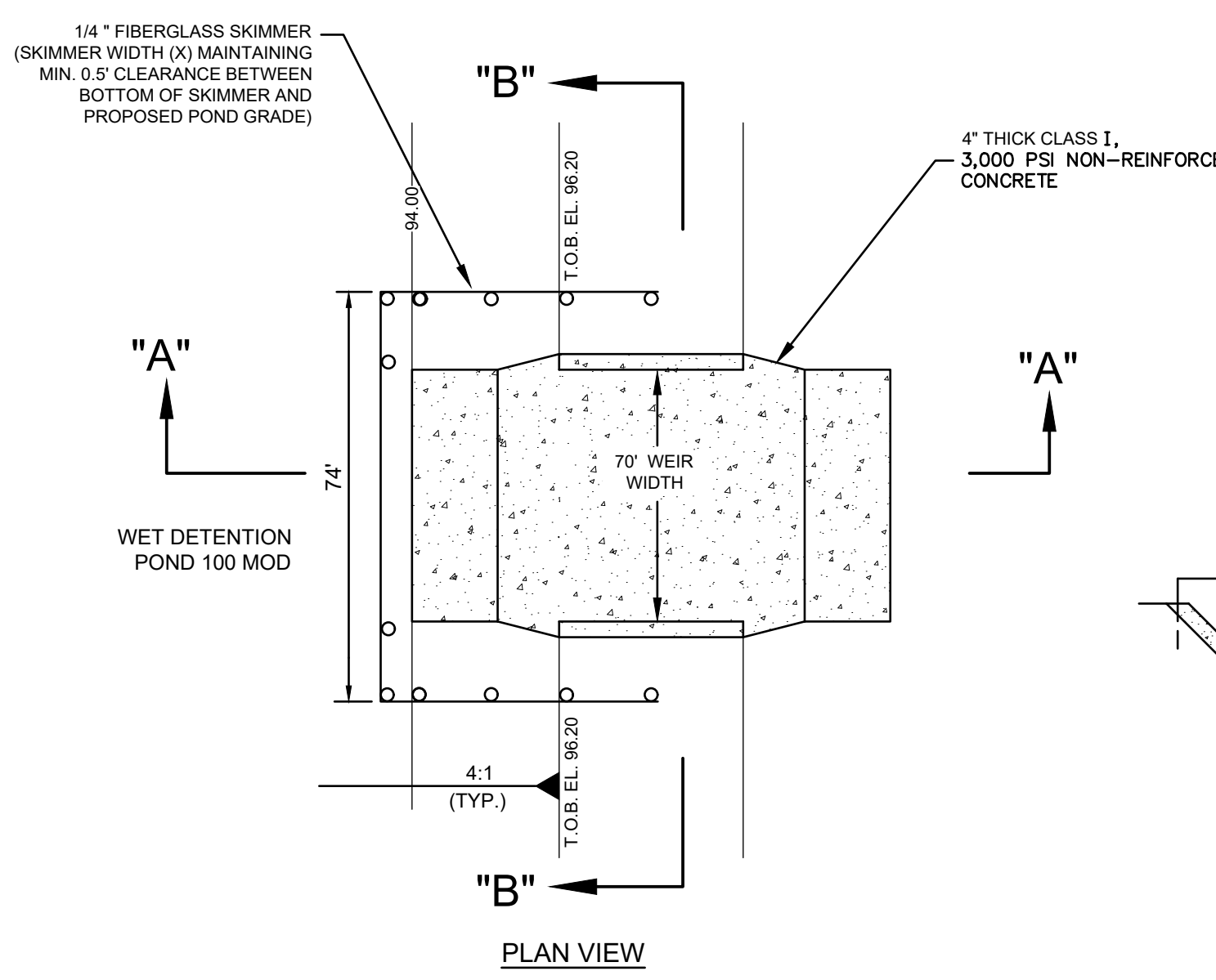
RIGID PAVEMENT CONSTRUCTION

SUB-GRADE SOILS MUST BE DENSIFIED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY TO A DEPTH OF AT LEAST 2 FT. PRIOR TO PLACEMENT OF CONCRETE.
WHERE CONCRETE PAVEMENT IS CONSTRUCTED ALL CURBING ADJACENT TO IT SHALL BE INTEGRAL CURB. CONCRETE PAVEMENT SHOULD BE CONSTRUCTED ONLY OVER STABLE AND SMOOTH COMPACTED SUBGRADES. ANY SURFACE DISTURBANCES OR WHEEL RUTTING SHOULD BE PREPARED PRIOR TO PLACEMENT OF CONCRETE. THE SUBGRADE SHOULD BE THOROUGHLY WETTED IMMEDIATELY PRIOR TO THE PLACEMENT OF CONCRETE TO MINIMIZE ABSORPTION OF MOISTURE FROM THE CONCRETE DURING CURING.
CONCRETE PAVEMENT THICKNESS SHOULD BE UNIFORM THROUGHOUT, WITH THE EXCEPTION OF CURBING OR THICKENED EDGES.

D

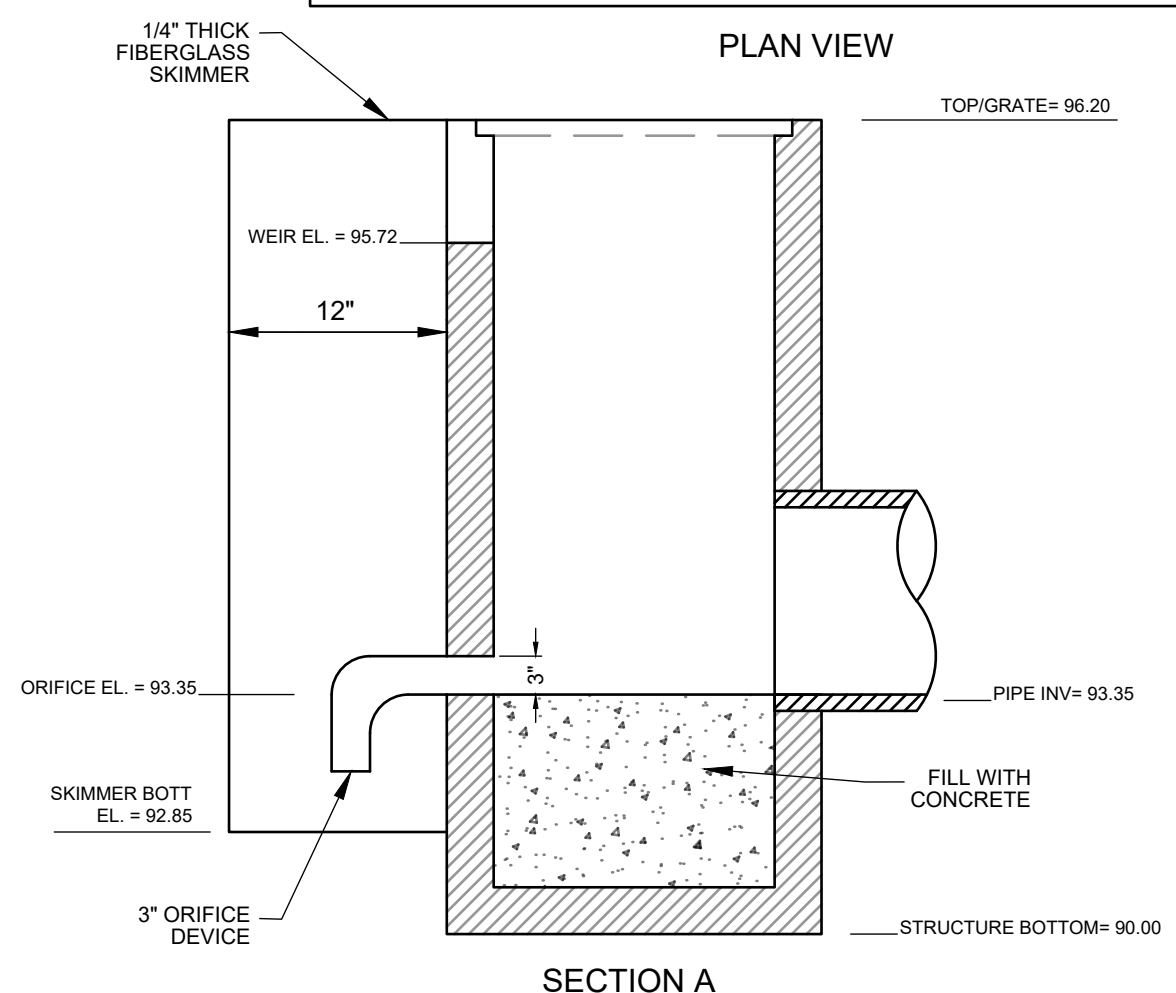


PLAN VIEW



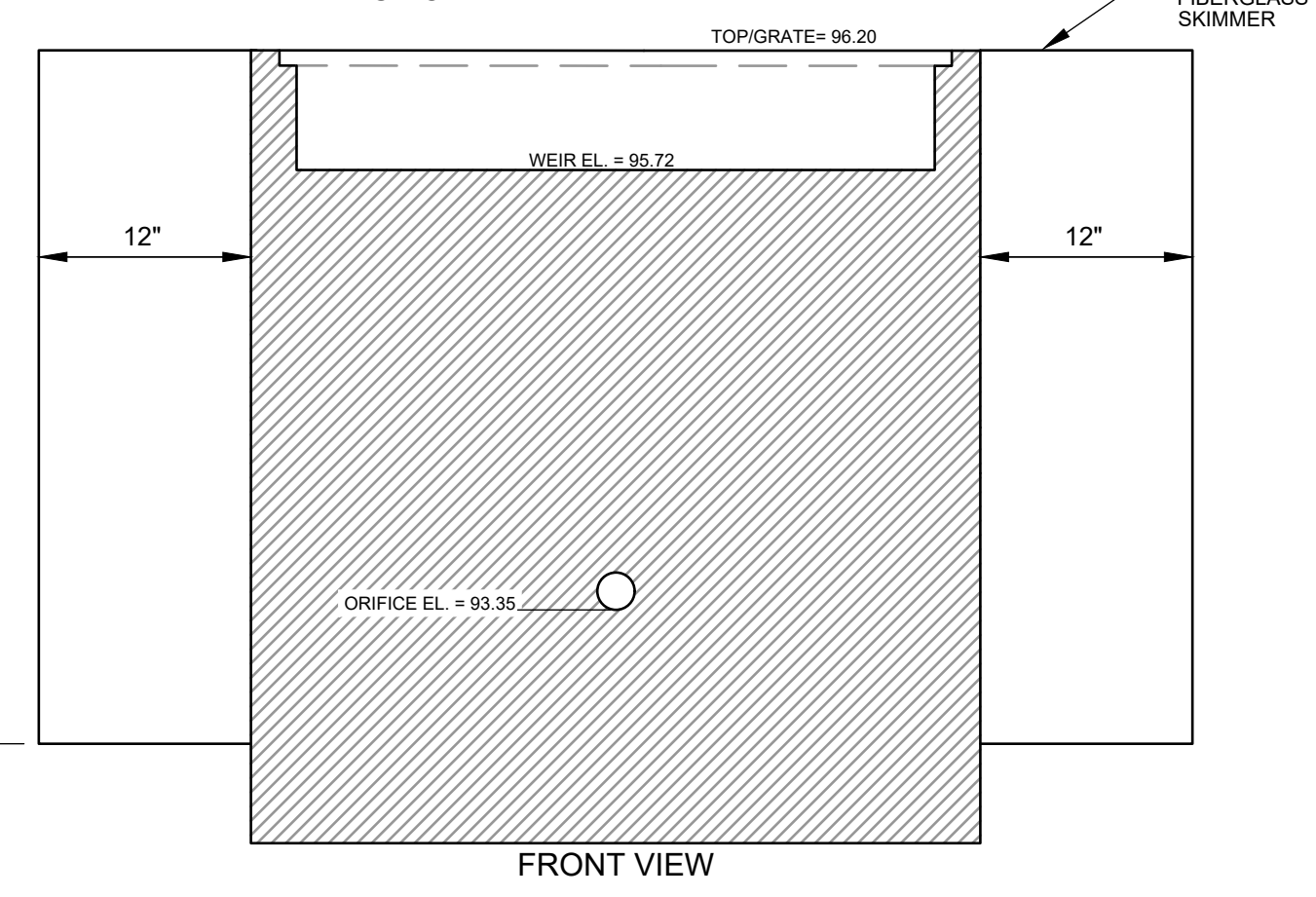
DRAINAGE CONTROL STRUCTURE
TOB CONCRETE OVERFLOW WEIR
NOT TO SCALE

C



SECTION A

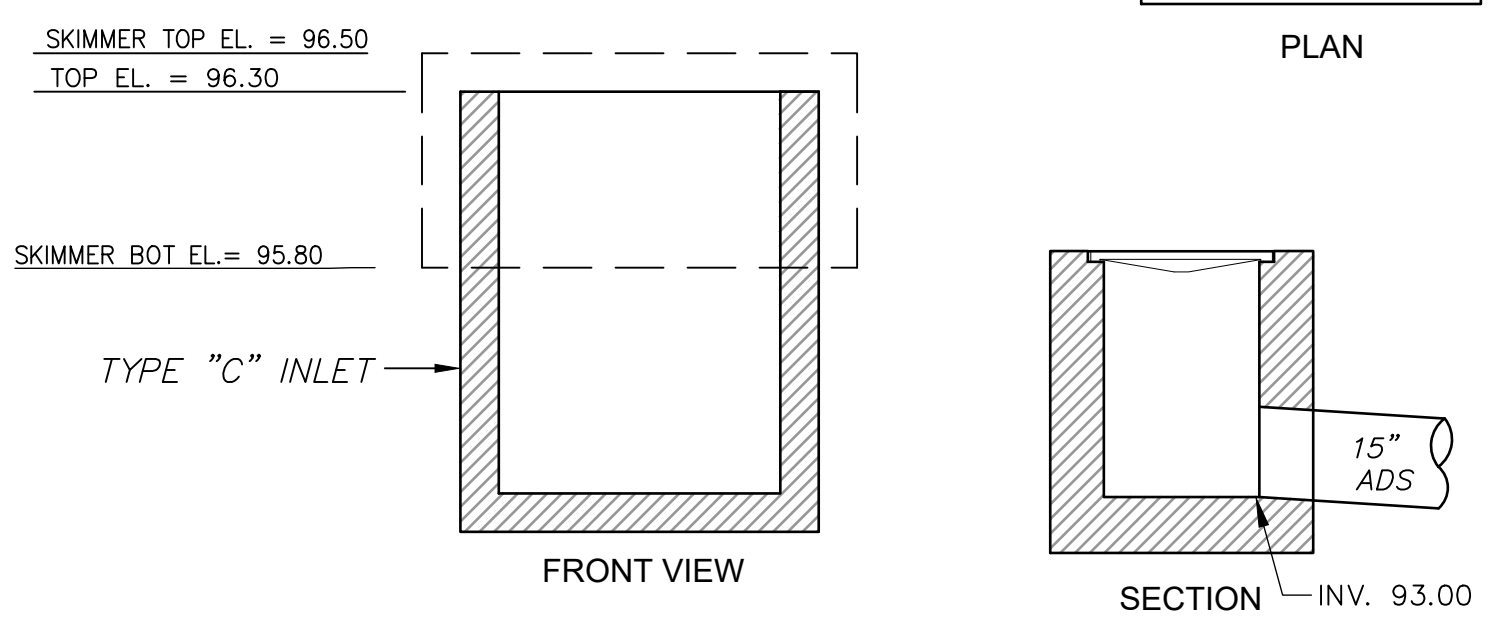
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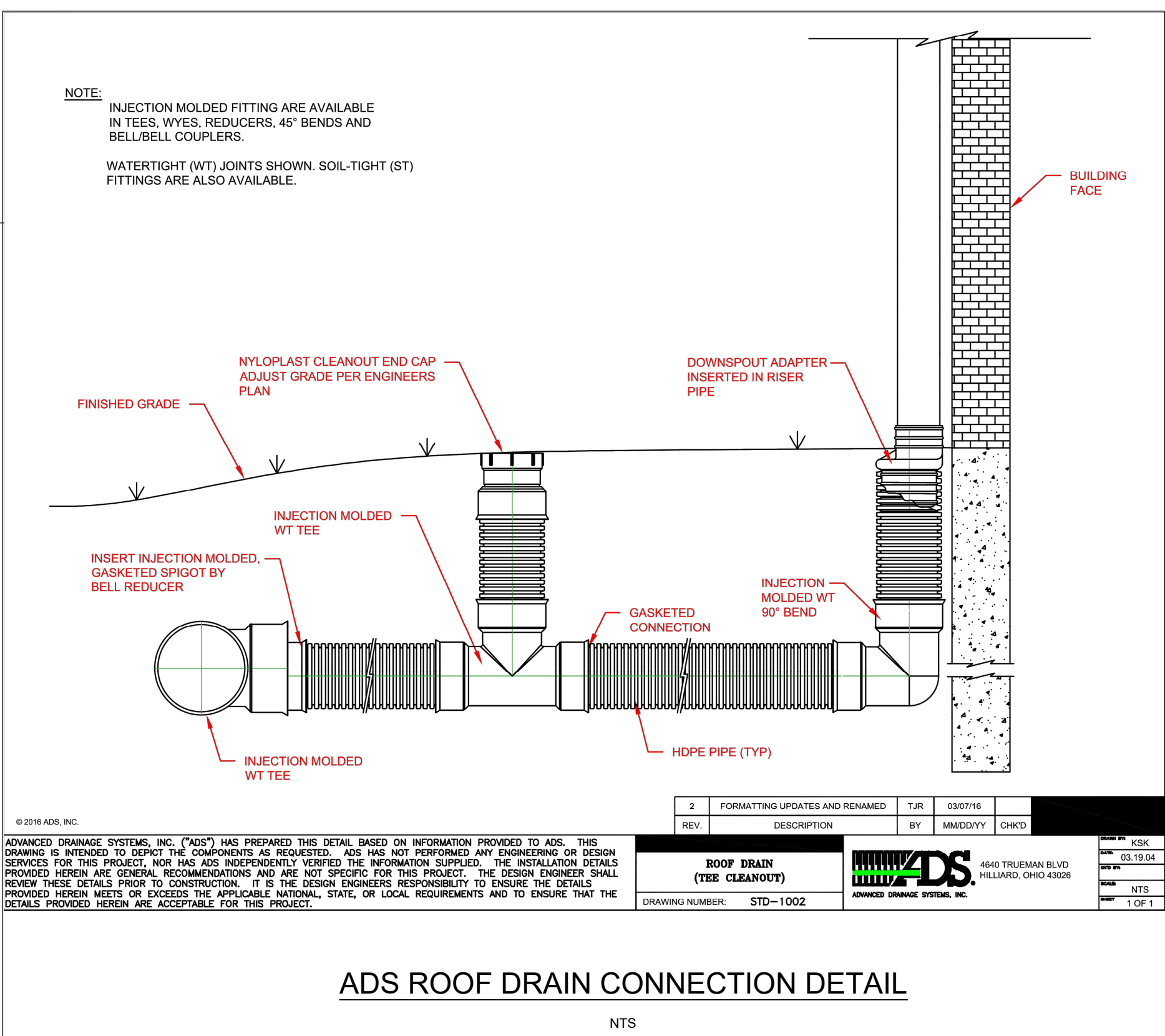
FRONT VIEW

CS-1 DETAIL
CONTROL STRUCTURE FOR POND 100 MOD
FDOT TYPE 'H' INLET
INDEX NO. 425-052

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DRAINAGE CONTROL STRUCTURE CS-2
FDOT TYPE "C" INLET MODIFIED
NOT TO SCALE



ADS ROOF DRAIN CONNECTION DETAIL
NTS

REV	DESCRIPTION	BY	DATE	CHKD
2	FORMATTING UPDATES AND RENAMED	TJR	03/07/16	CHC
1	ISSUED FOR PERMITS	SMC/DVY	02/28/14	KSK

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO COVER THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEET OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

Dewberry
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REGAL MARINE INDUSTRIES
BOAT PRODUCTION
EXPANSION
BELLE ISLE
2300 JETPORT DRIVE BELLE
CITY OF BELLE ISLE, FLORIDA
CONSTRUCTION PLANS

SEAL
SCALE
Reinaldo Malave
FL PE # 91588
Feb. 24, 2023

NO.	DESCRIPTION	DATE

DRAWN BY _____ GL
APPROVED BY _____ RM
CHECKED BY _____ GL
DATE _____ 9 / 6 / 2022
TITLE _____

GENERAL DETAILS

PROJECT NO. 50150413

C-8.5

SHEET NO. OF