

DIRECTIONS: <ADDRESS> 4263 N. HIGHWAY 1, MELBOURNE, FLORIDA 32935
 TAKE HIGHWAY 1-95 TO EXIT 188 FOR PINEDA CAUSEWAY & TURN EAST ONTO STATE ROAD 404. CONTINUE FOR 3.0 MILES TO US HIGHWAY 1 AND TURN SOUTH. CONTINUE FOR 2.1 MILES. SITE IS LOCATED ON THE EAST SIDE OF THE ROAD.

VICINITY

FIRE FLOW CALCULATION EXISTING BUILDING (±3,999 SF):

BUILDING CONSTRUCTION TYPE = IIB
 PER NFPA TABLE 18-4.5.1.2
 >> REQUIRED FIRE FLOW = 1,500 GPM AT 2HR DURATION

>> EXPOSURE:
 • SOUTH EXPOSURE +11' (20% INCREASE)
 • NO OTHER EXPOSURES WITHIN 100'

EXPOSURE INCREASE: +300 GPM

>> *A 75% REDUCTION IS ALLOWED FOR BUILDINGS THAT ARE FULLY SPRINKLED. MINIMUM 1,000 GPM.

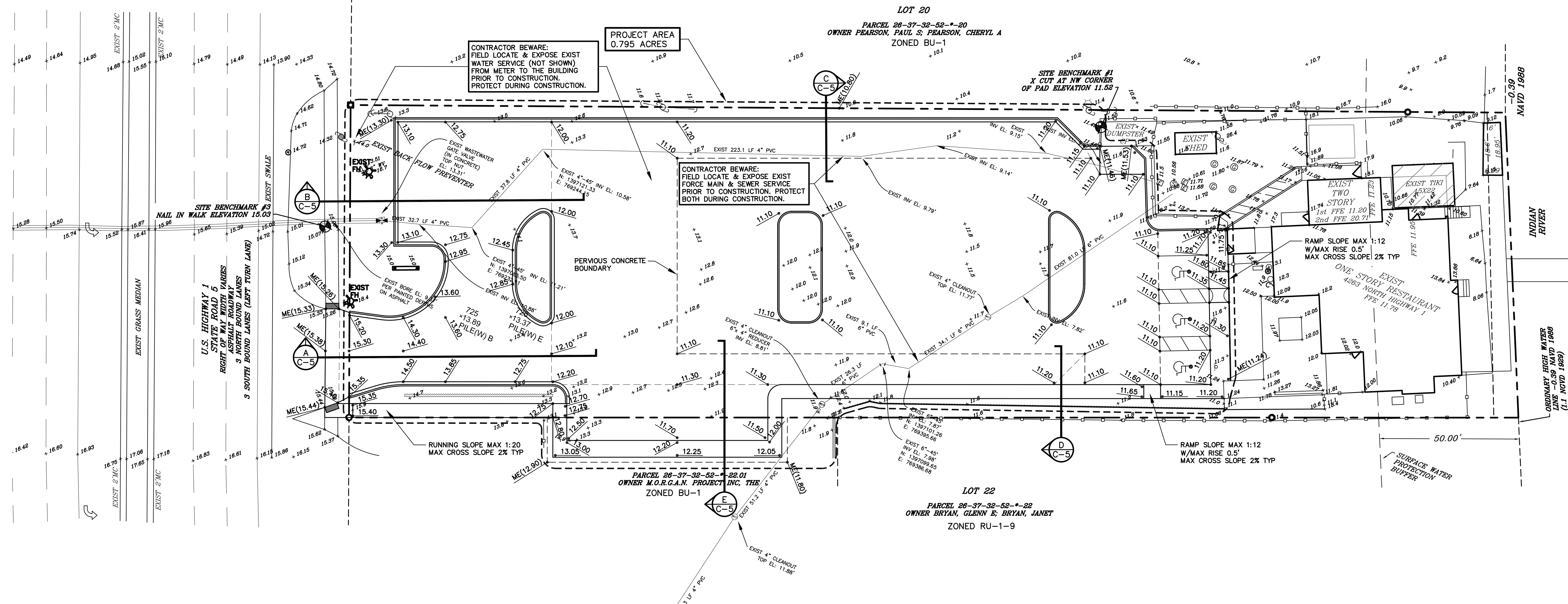
BUILDING IS NOT SPRINKLED: (-0 GPM)

>> REQUIRED FIRE FLOW = 1,800 GPM AT 2HR DURATION

NUMBER OF HYDRANTS REQUIRED = 2
 NUMBER OF EXISTING HYDRANTS AVAILABLE = 2
 NUMBER OF HYDRANTS PROPOSED = 0

NOTE:
 • (2) EXIST FH LOCATED ONSITE ALONG THE US HIGHWAY 1 RIGHT OF WAY (EAST RIGHT OF WAY LINE)

FIRE FLOW CALCULATIONS



Treatment Volume			
cf	ac-ft	<< Required	<< Provided
5,586	0.128	<< Required	<< Provided
27,723	0.636	<< Provided	<< Provided

Retention Stage / Storage					
Elevation	sf	ac	Incremental Volume	Storage Volume	
			cf	ac-ft	cf
11.1	11,089	0.255	5,545	0.127	27,723
10.6	11,089	0.255	5,545	0.127	22,178
10.1	11,089	0.255	16,634	0.382	16,634
8.6	11,089	0.255	0	0	0



MONROE ENGINEERING, INC.

CIVIL ENGINEERING / STRUCTURAL ENGINEERING
 P.O. BOX 121094, WEST MELBOURNE, FL 32912
 PE #61778 PHONE: 321-544-8177 CA #32271

ENGINEERS CERTIFICATION
 STEVEN W. MONROE, P.E. #61778

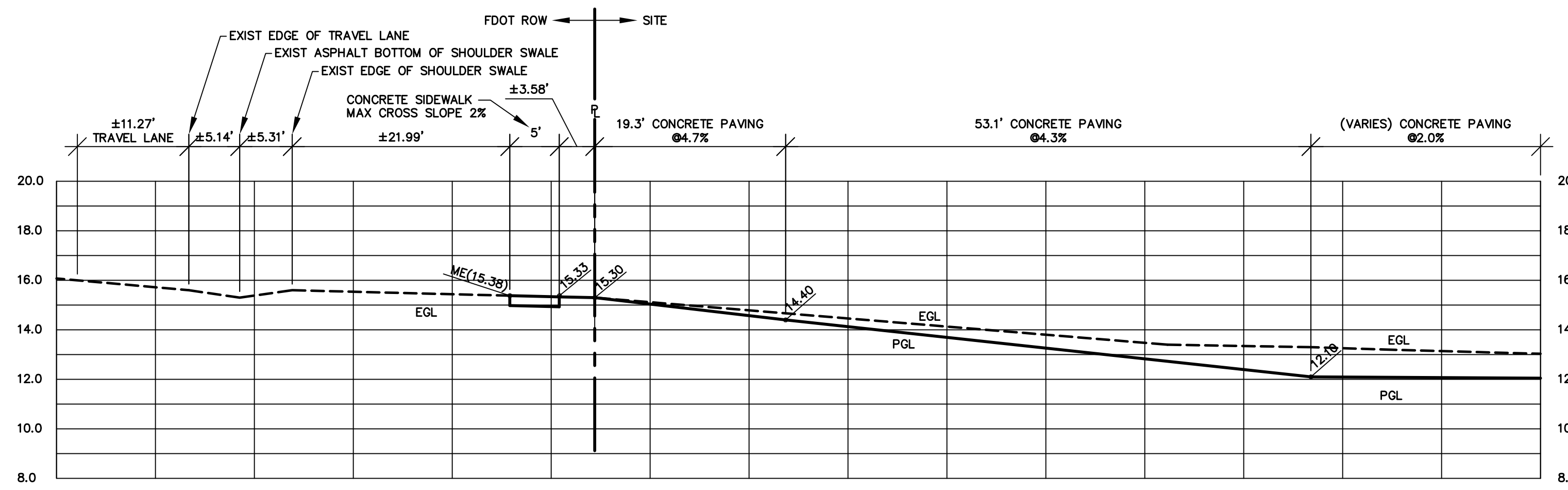
SIGNATURE: _____
 DATE: JANUARY 22, 2024

THESE PLANS ARE NOT VALID WITHOUT THE ENGINEER OF RECORDS ORIGINAL SIGNATURE, DATE & SEAL

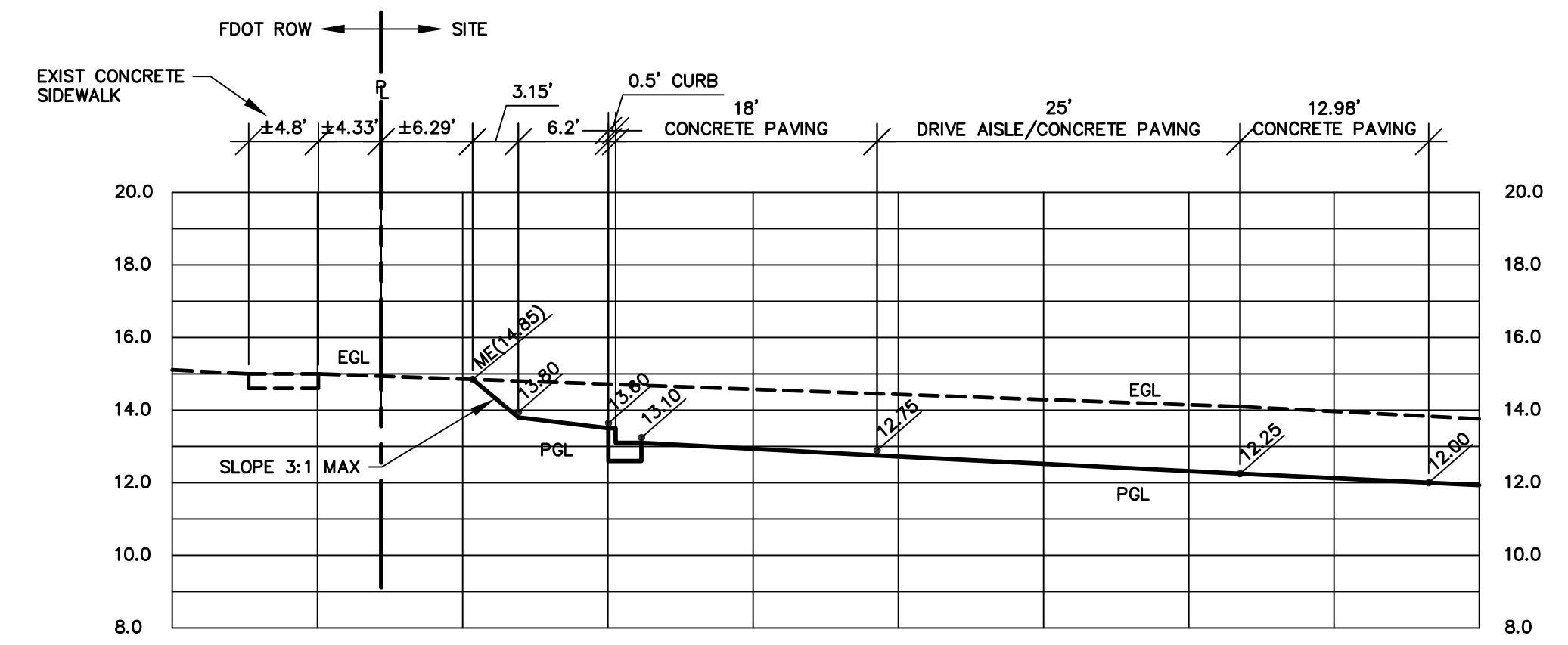
PROJECT: MARKER 99 PARKING LOT

SHEET TITLE: DRAINAGE PLAN

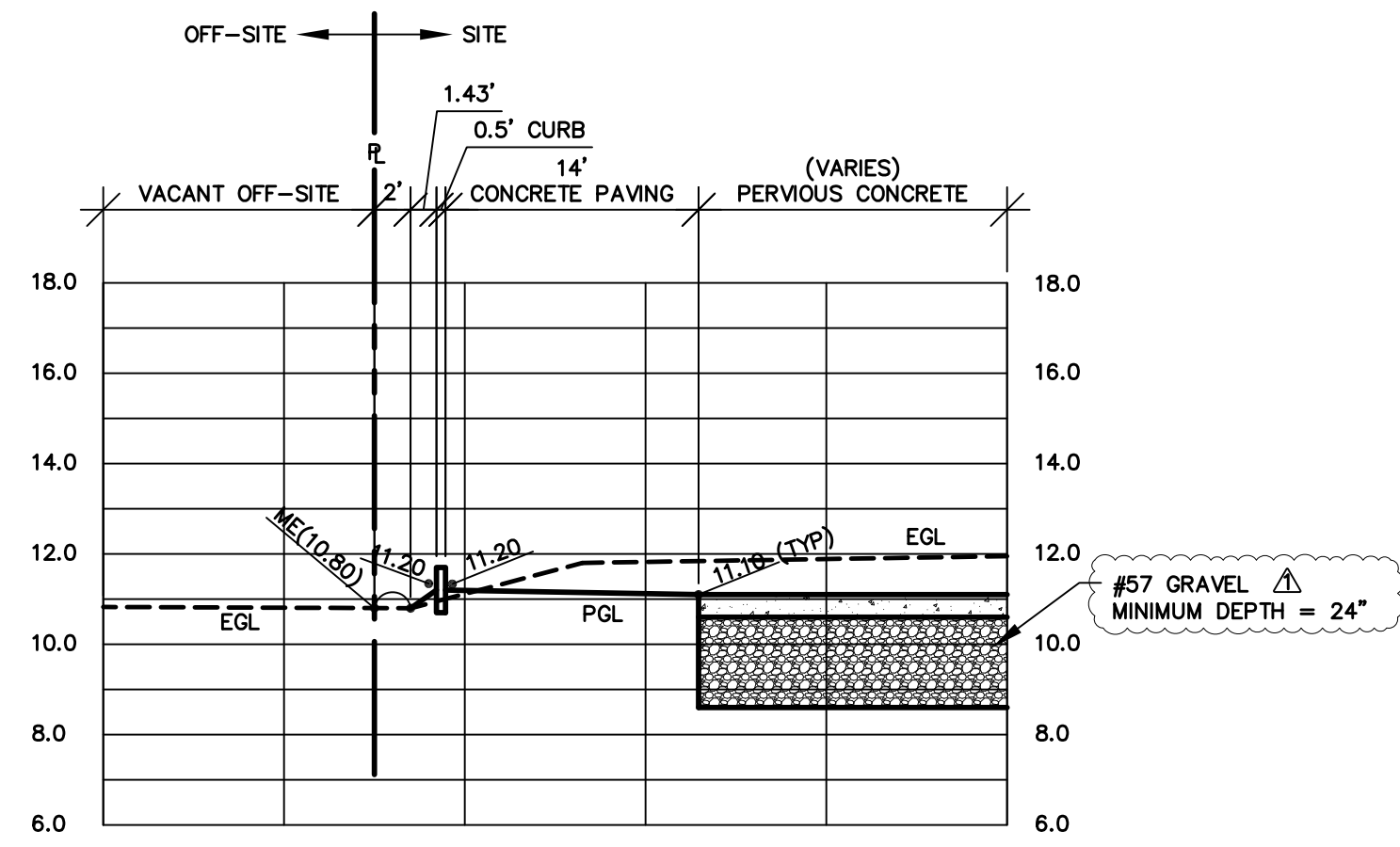
ISSUE DATE: 10-31-22	DRAWN BY: SM	CHECK BY: SM	APPR. BY: SM	SCALE: 1:20
REV. BY	DATE			JOB NO. 22-001
				SHEET: 5 OF 15
				C-4



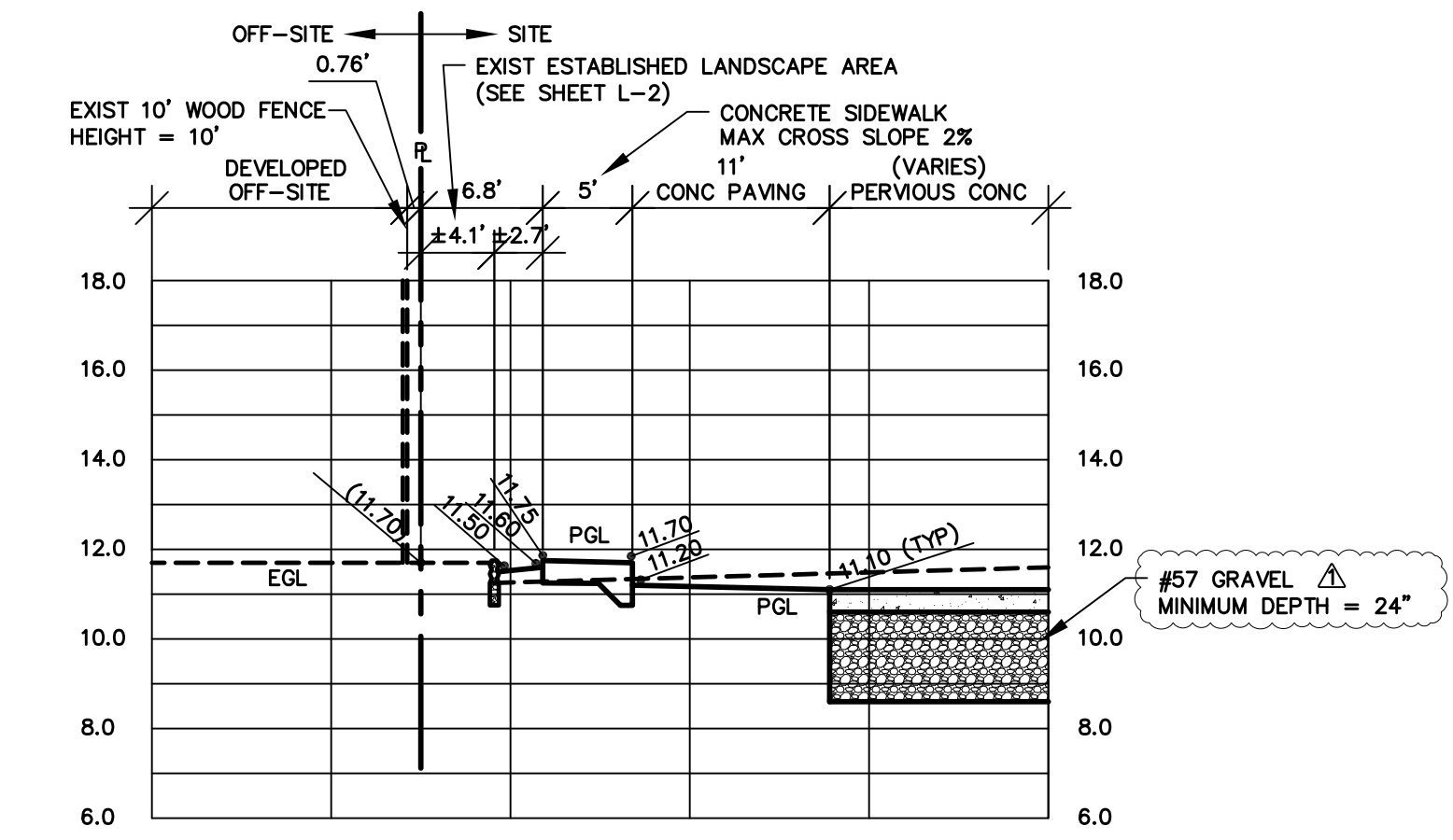
A DRIVEWAY SECTION DETAIL
 SCALE: HORIZONTAL 1"=10'
 VERTICAL 1"=4'



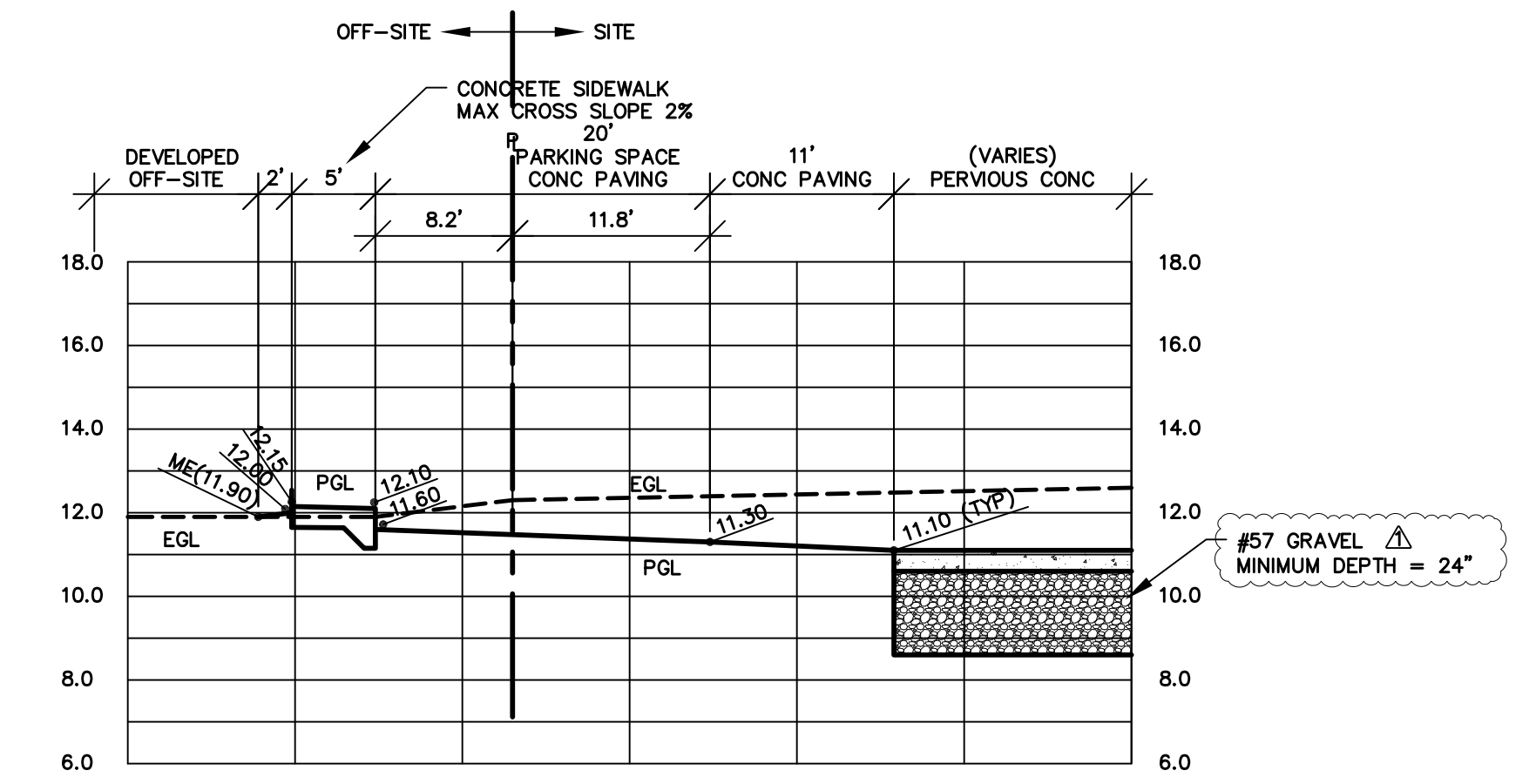
B PARKING SECTION DETAIL
 SCALE: HORIZONTAL 1"=10'
 VERTICAL 1"=4'



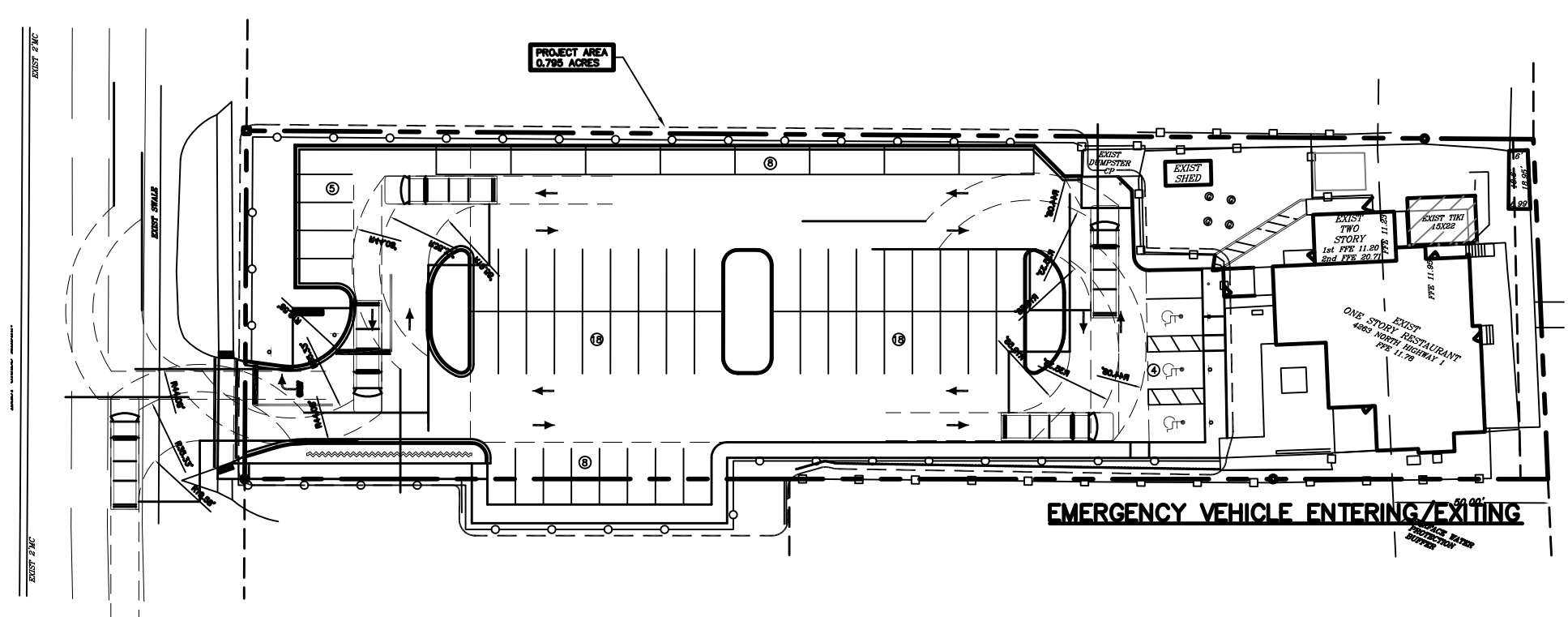
C PARKING SECTION DETAIL
 SCALE: HORIZONTAL 1"=10'
 VERTICAL 1"=4'



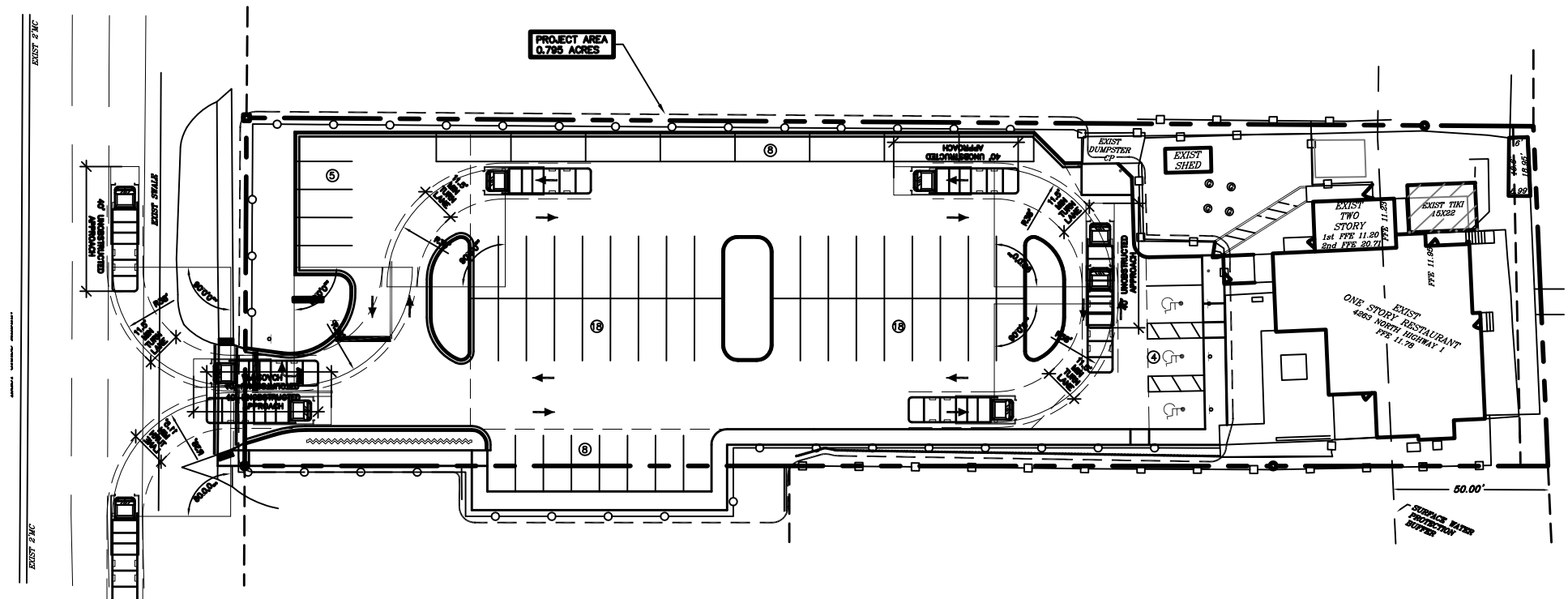
D PARKING SECTION DETAIL
 SCALE: HORIZONTAL 1"=10'
 VERTICAL 1"=4'



E PARKING SECTION DETAIL
 SCALE: HORIZONTAL 1"=10'
 VERTICAL 1"=4'



1 EMERGENCY VEHICLE TURN DETAIL
 NTS



2 TRASH TRUCK TURN DETAIL
 NTS

Pierce Turning Performance Analysis 05/05/2014

Bid Number: 333
 Department: Brevard County

Chassis: Arrow-XT Chassis, PAM/Mount, 2010
 Body: Aerial Platform 102', Alum Body **TRUCK 63**

Parameter	Value
Inside Cramp Angle	45°
Axle Track	61.60 in.
Wheel Offset	4.66 in.
Trail Width	14.9 in.
Chassis Overhang	66.99 in.
Additional Bumper Depth	19 in.
Front Overhang	156.5 in.
Wheelbase	247.5 in. — 2.6, 15

Calculated Turning Radii	Value
Inside Turn	19.8.7 in.
Curb to curb	38.8.4 in.
Wall to wall	44.8.1 in.

Category | **Option** | **Description**

Axle, Front, Custom	0569038	Axle, Front, Dana, C2200, 23,000 lb
Wheels, Front	0668004	Wheels, Front, Alcoa, 22.50" x 10.50", Aluminum, Hub Pilot, 365/70R Tire
Tires, Front	0668005	Tires, Front, Michelin, XZL, 365/70R22.50, 20 ply, Low Profile
Bumpers	0550016	Bumper, 10' Extended, AXI, Dash CF
Aerial Devices	0657391	Aerial, 100' Pierce Platform, 35 MPH Wind Rating, 4000# Tip Load Allowance

NOTES:
 Actual inside cramp angle may be less due to highly specialized options.
 Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:
 Inside Cramp Angle: Maximum turning angle of the front inside tire.
 Axle Track: King pin to King pin distance of front axle.
 Wheel Offset: Offset from the center line of the wheel to the Kingpin.
 Trail Width: Width of the line trail.
 Chassis Overhang: Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
 Additional Bumper/Wheel: Depth that the bumper assembly adds to the front overhang.
 Wheelbase: Distance between the center lines of the vehicle front and rear axles.
 Inside Turning Radius: Radius of the smallest circle around which the vehicle can turn.
 Curb to Curb Turning Radius: Radius of the smallest circle around which the vehicle's tires can turn. This measure assumes a curb height of 9 inches.
 Wall to Wall Turning Radius: Radius of the smallest circle around which the vehicle's tires can turn. This measure takes into account any front overhang due to chassis, bumper extensions and/or aerial devices.

NOTES:
 1. THIS INFORMATION WAS PROVIDED BY BREVARD COUNTY FIRE PREVENTION.
 2. THIS INFORMATION WAS USED TO CREATE TURN TEMPLATES DEPICTED IN THE ASSOCIATED DETAILS.

3 EMERGENCY VEHICLE INFORMATION
 NTS

Always call 811 two full business days before you dig

Sunshine811.com

*SEE COVER SHEET FOR ADDITIONAL INFORMATION
 SUNSHINE 811 LOCATES: PHONE (811) OR (800) 432-4770
 CITY OF MELBOURNE WATER/WASTEWATER: (321) 674-5762
 CITY OF MELBOURNE (AFTER HOURS): (321) 255-4612

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 PE #61778 PHONE: 321-544-8177 CA #32271

PROJECT: **MARKER 99 PARKING LOT**

SECTION DETAILS

ISSUE DATE: 10-31-22	DRAWN BY: SM	CHECK BY: SM	APPR. BY: SM	SCALE: 1:20
REV. BY: DATE	JOB NO.			22-001
Δ SM 7-14-23	REV. PER FDOT COMMENTS			SHEET: 6 OF 15
				C-5

ENGINEERS CERTIFICATION
 STEVEN W. MONROE, P.E. #61778

DATE: **JANUARY 22, 2024**

THESE PLANS ARE NOT VALID WITHOUT THE ENGINEER OF RECORDS ORIGINAL SIGNATURE, DATE & SEAL

BREVARD COUNTY PROJECT #22AD00016 (REVIEW #2)

BOUNDARY SURVEY

IN A PORTION OF SECTION 32,

TOWNSHIP 26 SOUTH, RANGE 37 EAST, BREVARD COUNTY, FLORIDA



« SCALE 1"=20' »

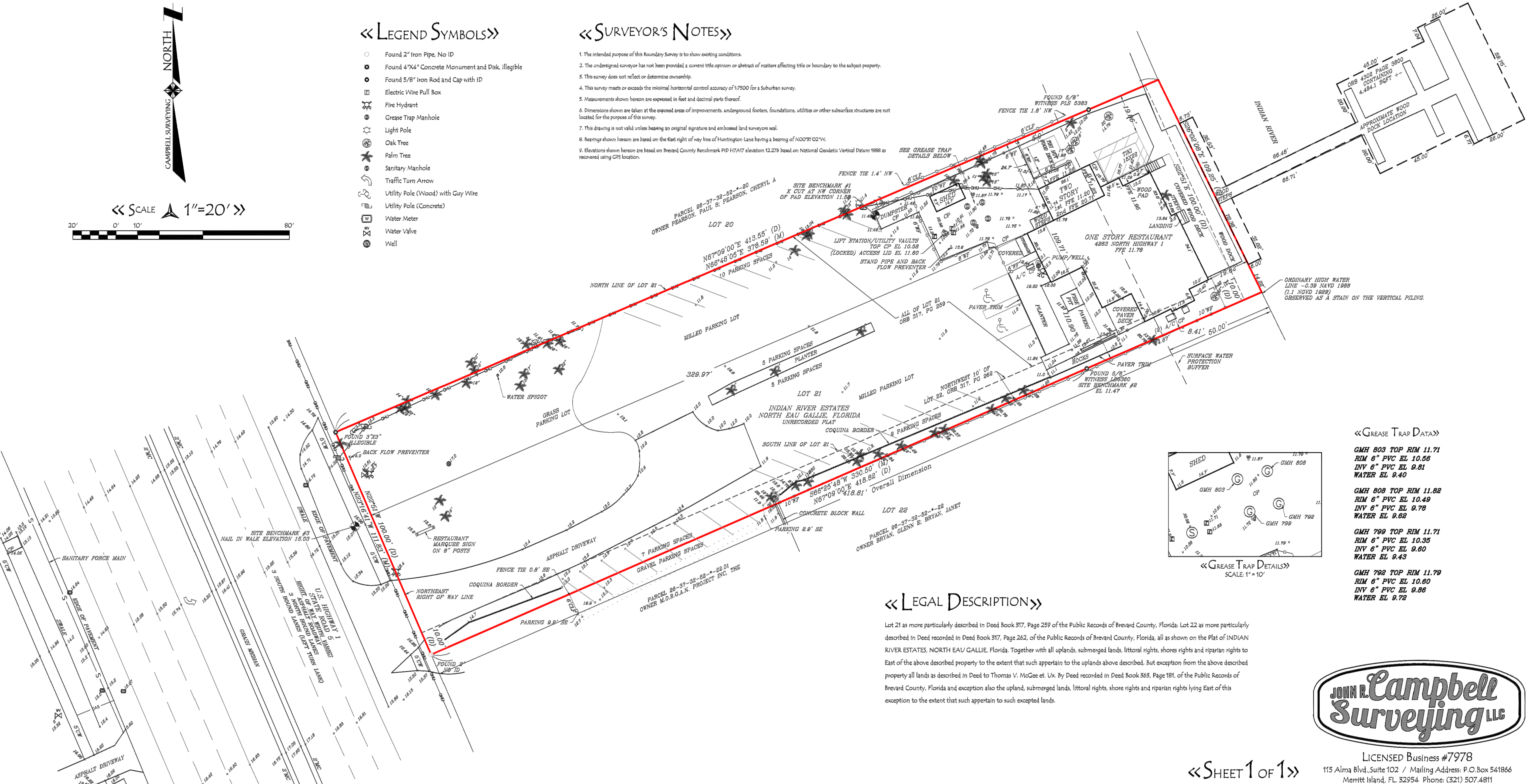


« LEGEND SYMBOLS »

- Found 2" Iron Pipe, No ID
- Found 4"x4" Concrete Monument and Disk, Illegible
- Found 5/8" Iron Rod and Cap with ID
- ⊞ Electric Wire Pull Box
- ⊞ Fire Hydrant
- ⊞ Grease Trap Manhole
- ⊞ Light Pole
- ⊞ Oak Tree
- ⊞ Palm Tree
- ⊞ Sanitary Manhole
- ⊞ Traffic Turn Arrow
- ⊞ Utility Pole (Wood) with Guy Wire
- ⊞ Utility Pole (Concrete)
- ⊞ Water Meter
- ⊞ Water Valve
- ⊞ Well

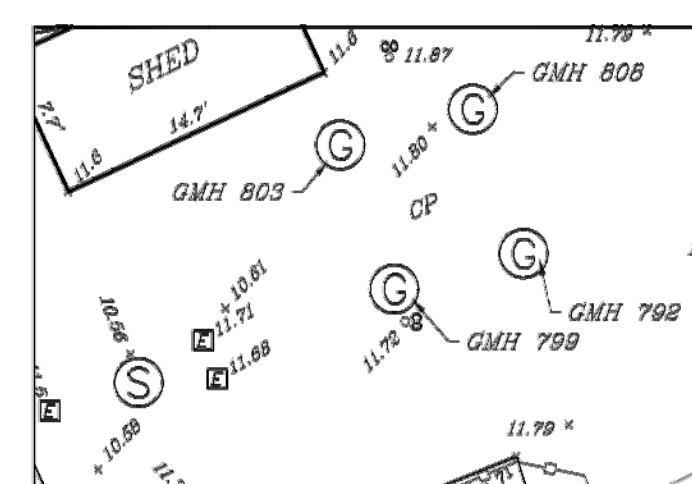
« SURVEYOR'S NOTES »

1. The intended purpose of this Boundary Survey is to show existing conditions.
2. The undersigned surveyor has not been provided a current title opinion or abstract of matters affecting title or boundary to the subject property.
3. This survey does not reflect or determine ownership.
4. This survey meets or exceeds the minimal horizontal control accuracy of 1/7500 for a Suburban survey.
5. Measurements shown hereon are expressed in feet and decimal parts thereof.
6. Dimensions shown are taken at the exposed areas of improvements, underground footers, foundations, utilities or other subsurface structures are not located for the purpose of this survey.
7. This drawing is not valid unless bearing an original signature and embossed land surveyor seal.
8. Bearings shown hereon are based on the East right of way line of Huntington Lane having a bearing of N00°31'02" W.
9. Elevations shown hereon are based on Brevard County Benchmark PID H7A17 elevation 12.276 based on National Geodetic Vertical Datum 1988 as recovered using GPS location.



« GREASE TRAP DATA »

- GMH 803 TOP RIM 11.71
RIM 6" PVC EL 10.56
INV 6" PVC EL 9.81
WATER EL 9.40
- GMH 808 TOP RIM 11.82
RIM 6" PVC EL 10.49
INV 6" PVC EL 9.78
WATER EL 9.68
- GMH 799 TOP RIM 11.71
RIM 6" PVC EL 10.35
INV 6" PVC EL 9.60
WATER EL 9.43
- GMH 792 TOP RIM 11.79
RIM 6" PVC EL 10.60
INV 6" PVC EL 9.86
WATER EL 9.78



« GREASE TRAP DETAILS »
SCALE: 1" = 10'

« LEGAL DESCRIPTION »

Lot 21 as more particularly described in Deed Book 317, Page 259 of the Public Records of Brevard County, Florida; Lot 22 as more particularly described in Deed recorded in Deed Book 317, Page 262, of the Public Records of Brevard County, Florida, all as shown on the Plat of INDIAN RIVER ESTATES, NORTH EAU GALLIE, Florida. Together with all uplands, submerged lands, littoral rights, shores rights and riparian rights to East of the above described property to the extent that such appertain to the uplands above described. But exception from the above described property all lands as described in Deed to Thomas V. McGee et. Ux. By Deed recorded in Deed Book 365, Page 181, of the Public Records of Brevard County, Florida and exception also the upland, submerged lands, littoral rights, shore rights and riparian rights lying East of this exception to the extent that such appertain to such excepted lands.

« EXPLANATION OF ABBREVIATIONS »

PPC Point of Commencement	MH Manhole	CP Concrete Pad	WF Wood Fence
PWB Point of Beginning	LB Licensed Business	A/C Air Conditioner	SS Sanitary Sewer
CW Concrete Walk	PLS Professional Land Surveyor	RCP Reinforced Concrete Pipe	CI Calculated Information
CG Concrete Curb and Gutter	FFE Finished Floor Elevation	EP Edge of Pavement	(P) Plat Information
CC Concrete Curb	-S- Underground Sanitary Sewer Line	ID Identification	(M) Measured Information
CBW Concrete Block Wall	-G- Underground Gas Line	CB Catch Basin	INV Invert
ORB Official Record Book	-W- Underground Water Line	N.G.V.D. National Geodetic Vertical Datum	EL Elevation
PG Page or Pages	-OH- Overhead Utility Line	MC Concrete Median Curb	PVC Polyvinyl Chloride Pipe
PB Plat Book		CLF Chain Link Fence	Δ Delta

THE UNDERGROUND UTILITY INFORMATION:
As Shown hereon is based, in part, upon information furnished by utility companies and the local municipality, while this information is believed to be reliable, its accuracy and completeness cannot be guaranteed nor certified.
(P) Indicates pipe sizes per record plans. Other pipe sizes are estimated. No pipe sizes should be relied upon without further verification.

I hereby certify that the survey shown hereon is true and correct based on actual measurements taken in the field. This survey meets the Standards of Practice as set forth by the Florida Board of Professional Land Surveyors found in Chapter 5J-17.052, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.
John R. Campbell
JOHN R. CAMPBELL
PROFESSIONAL SURVEYOR & MAPPER #2351
STATE OF FLORIDA

« SHEET 1 OF 1 »

Boundary Survey

PREPARED FOR AND CERTIFIED TO:
IRIKI 2, LLC, A FLORIDA LIMITED LIABILITY COMPANY
WATSON, SOILEAU, DELEO & BURGETT, P.A.
COMMUNITY BANK OF THE SOUTH, ISAQA
COMMONWEALTH LAND TITLE INSURANCE COMPANY



LICENSED Business #7978
115 Alma Blvd., Suite 102 / Mailing Address: P.O. Box 541866
Merritt Island, FL 32954 Phone: (321) 507.4811

SITE LOCATION : 4265 North Highway 1, Melbourne, FL 32955	
PROJECT NO. 2020-155	DATE 9/30/2020
REVISIONS	DATE DESCRIPTION
1	09/09/2020 ADDITIONAL TOPD AREA'S
2	09/09/2020 REV PER COUNTY COMMENTS
3	03/02/2021 ADDITIONAL DIMENSIONS-COUNTY COMMENTS
4	09/28/2021 ADDED CIRCULAR 4302 PAGE 8000 SKETCH