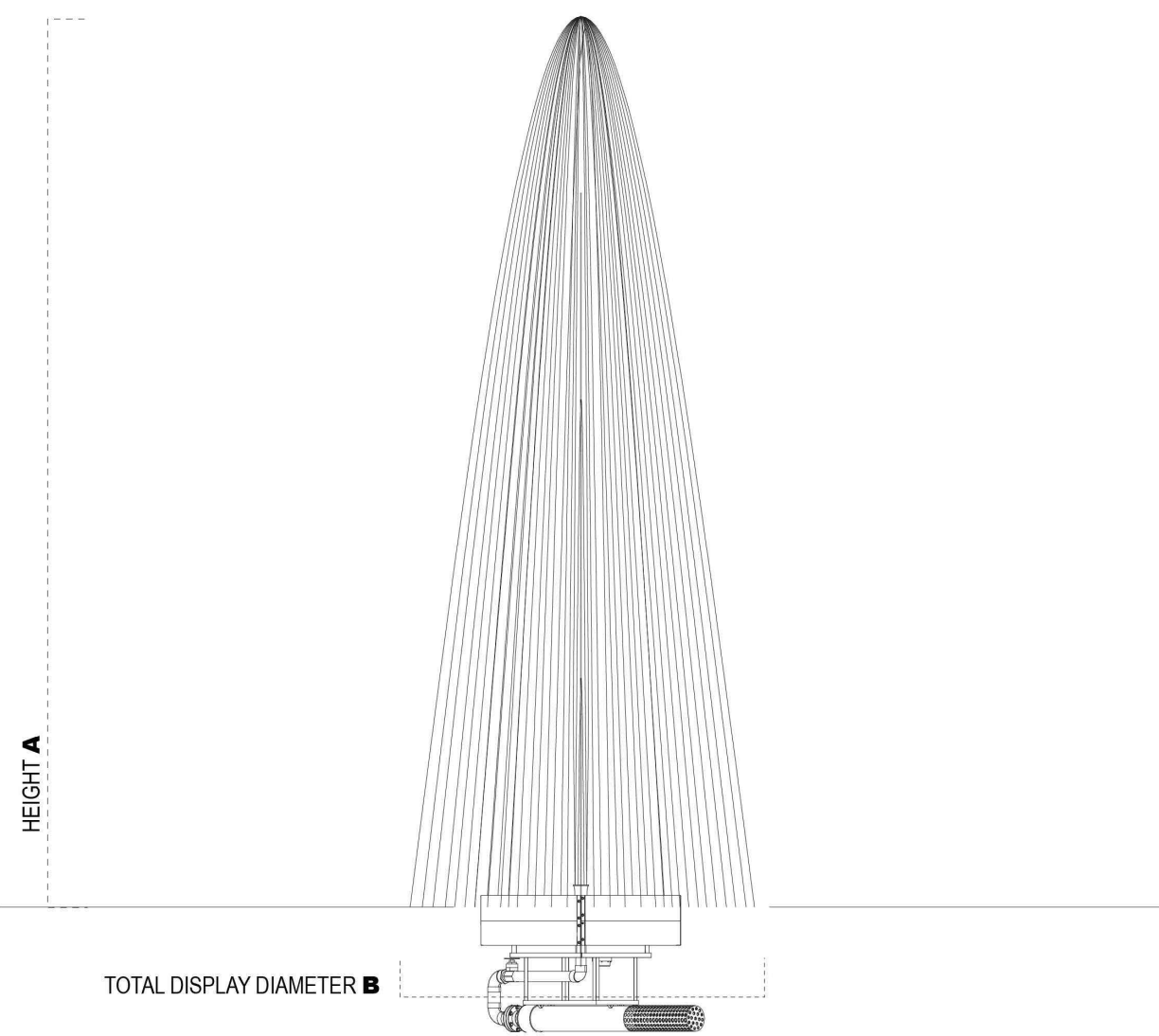




GEYSERJET™ SERIES



CHECK EITHER WITH OR WITHOUT LIGHTS																								
Fountain Only																								
With LED Lights																								
Motor HP	2	2	2	3	3	3	5	5	5	7.5	7.5	10	10	10	15	15	15	20	20					
Volts	230	230	208	230	230	208	230	230	208	230	230	208	230	208	230	230	208	230	208	230	208			
Phase	1	3	3	1	3	3	1	3	3	1	3	3	1	3	3	1	3	3	1	3	3			
AMP	14	8	9	17	10	13	28	17	21	42	25	28	51	32	37	72	47	54	61	70				
HT. A	8'	8'	8'	12'	12'	12'	18'	18'	18'	22'	22'	22'	25'	25'	28'	28'	28'	28'	30'	30'				
Dia. B	4"	4"	4"	4"	4"	4"	5"	5"	5"	6"	6"	6"	6"	6"	6"	8"	8"	8"	8"	8"				
43W LED Lights	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	5	5	5	6	6				
Total Watts	86	86	86	86	86	86	129	129	129	172	172	172	172	172	172	215	215	215	258	258				
AMP Draw	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.8	1.8	2.2	2.2				

Drawings are for illustration only and not to scale. Installation of fountain equipment shall be in accordance with manufacturers specifications.

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FOUNTAIN SCHEDULE

LOCATION	MANUFACTURE	MODEL	HEIGHT	QUANTITY
LAKE	VERTEX	GEYSER JET	12'	2
TOTAL				2



GEYSERJET™ SPECS

FLOTATION SYSTEM

Rotocast polypropylene with ultraviolet inhibitors added for extended protection against warping/cracking. Each seamless, watertight section is equipped with threaded brass insert and expanding type fill-plug to add water ballast and leveling control.

PUMP/MOTOR

__HP, __Volt, __Phase stainless steel, sealed UL listed submersible motor. Submersible turbine pump shall be of 100% 304 stainless steel construction, with driveshaft of 416 stainless steel and equipped with sand collars for maximum protection against abrasives. Pump and motor are water cooled and lubricated. *Use of oil-filled motors/pumping systems are not acceptable due to need for regular replacement of oil, O-rings, and seals.*

INTAKE SCREEN

Type 304, 18ga stainless steel, protects against foreign material entering pumping system.

FRAMEWORK

Type 304 stainless steel with welded joints and stainless steel fastenings.

LIGHTING FIXTURES

__43Watt, 120V clear, stainless steel LED light fixtures with tempered lens and neoprene gaskets, mounting brackets and fastenings of stainless steel. See specification chart for suggested lighting package. ETL listed.

DISPLAY HEAD

Head are water-level sensitive Geyser nozzle of 100% brass construction, producing a heavy, active, and highly aerated display. Display heads of plastics, PVC and/or "thermoplastics" are unacceptable.

UNDERWATER ELECTRICAL CABLES

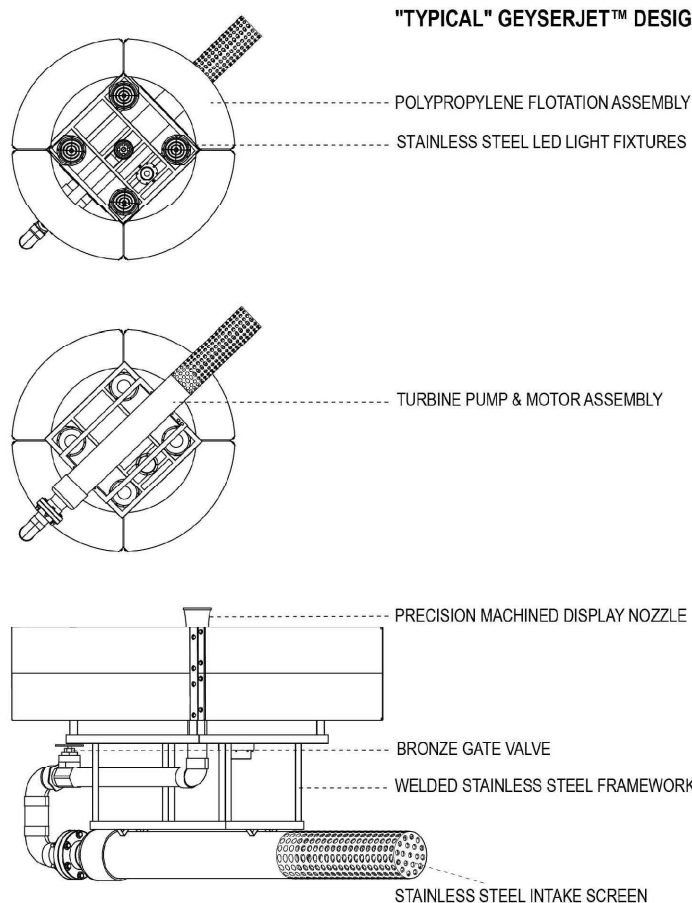
STW-A rated, stamped "water resistant", __" of __ga-pump, __" of __ga-lights

FOUNTAIN CONTROL PANEL

- Steel NEMA 3R enclosure
- Surge/Lightning Protection
- Capacitive motor starter (single phase units)
- 2 ~ 24 hour time clocks
- Phase loss protection (3-phase units)
- Circuit breaker – pump
- Circuit breaker – lights (if equipped)
- GFI protection – pump
- GFI protection – lights (if equipped)

WARRANTY (PARTS)

- Fountain - 4 years
- Light Fixtures (excludes bulbs) - 2 years
- Controls - 1 year



*Vertex reserves the right to improve and change designs and/or specifications without notice or obligation.

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FOUNTAIN INSTALL

FOUNTAIN CONTROL PANEL

Warning - The fountain control panel must be installed by licensed electrician in accordance with article 682 of national electrical code.

Panel location is above any and all possible high water levels. Submergence of panel poses serious risk of electrical shock and damage of fountain system. Failure may result in potentially hazardous conditions and/or failure of electrical inspection.

Consult authorities having jurisdiction (ahj) for specific local codes/restrictions. Vertex Aquatic Solutions accepts/assumes no responsibility for installations not in accordance with local and/or national electrical codes.

SCOPE OF WORK - ELECTRICIAN

1. Mount NEMA 3R panel enclosure in accordance with NEC 682 following any additional local codes and/or restrictions that exist.
2. Trench and bury sufficiently sized conduit(s) from fountain panel to water's edge, extending conduit(s) far enough into water to ensure no submersible cable is exposed should low water conditions arise.
3. Bring incoming power from power source into the fountain panel. Incoming voltage must match with specifications of fountain panel or failure will result, damaging the system and voiding the warranty.
4. Pull submersible cable(s) from fountain through conduit to control panel and perform final connections

See Fountain Owner's Manual for details on installing the fountain in your lake.

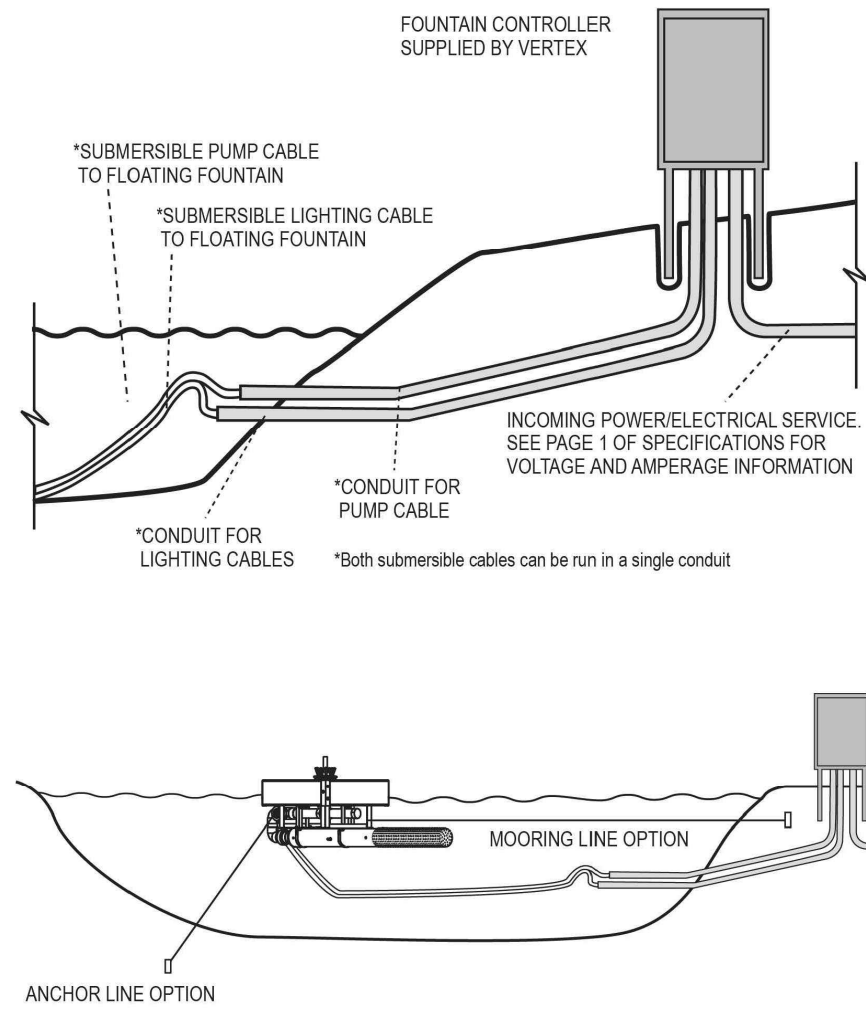
IMPORTANT NOTES

Do not operate fountain and lights until fountain installation has been completed and lights are fully submerged.

Operating light(s) out of water will result in damage to bulb(s) and lens(es), voiding manufacturer's warranty.

Connect only 120V to light(s)

Higher voltage will result in immediate damage or failure of bulb(s).



Drawings are for illustration only and not to scale. Installation of fountain equipment shall be in accordance with manufacturers specifications.

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No.	REVISIONS	DATE	BY

SCALE:	NTS
DESIGNED BY:	SWP
DRAWN BY:	SWP
CHECKED BY:	JDH



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ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
PAK: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. CD00114

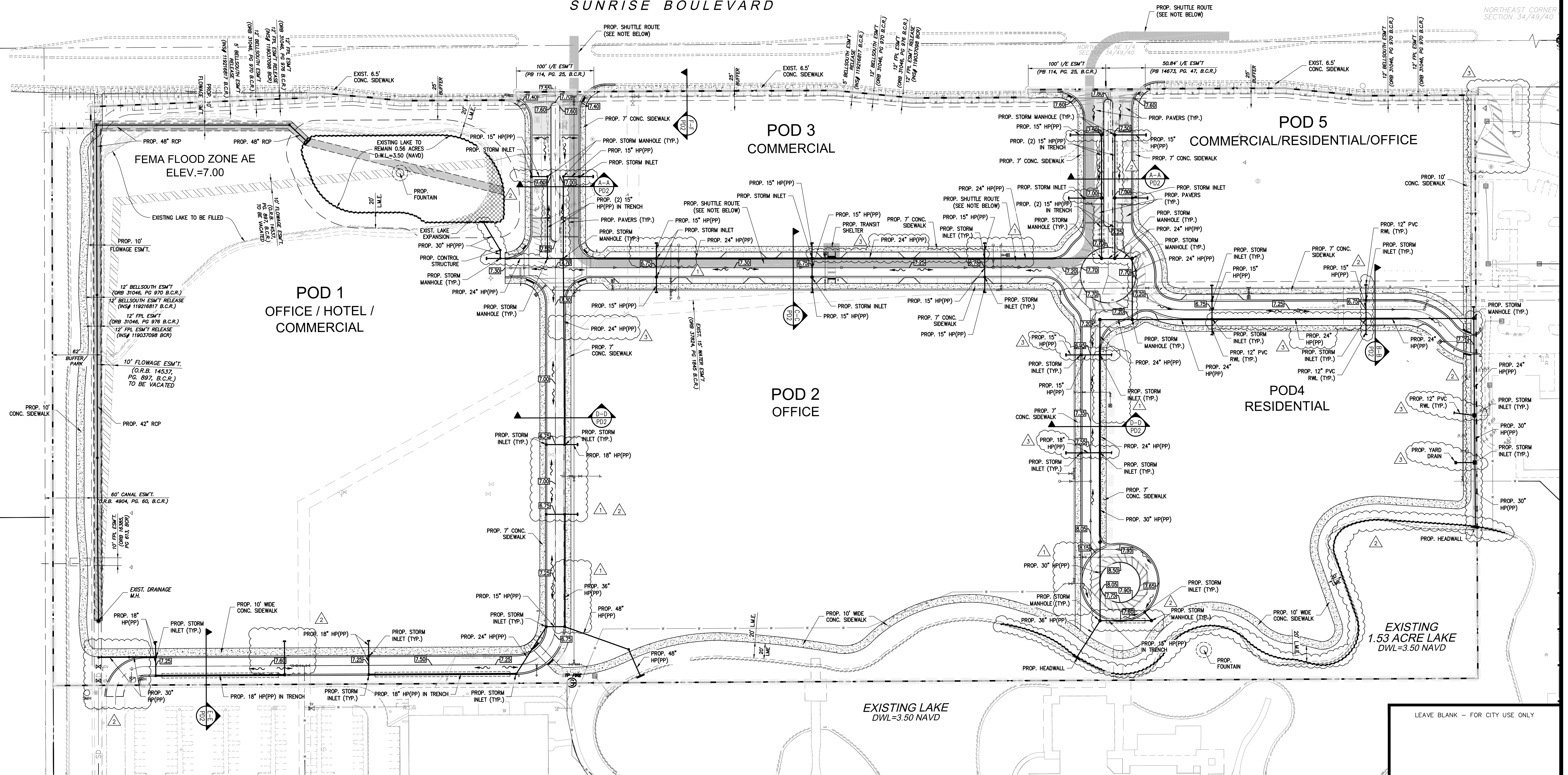
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WESTERRA PHASE 1
CITY OF SUNRISE, FLORIDA

MASTER DEVELOPMENT PLAN
FOUNTAIN & LIGHTING DETAILS

SEAL:	DATE:
Scott W. Peavler Florida R.L.A. No. 6666976	10/24/2025
PROJECT NO.	DRAWING NO.
21-0061-001-01	A-1.04

SUNRISE BOULEVARD



PAVING & DRAINAGE LEGEND

R.E.	RIM ELEVATION	---	EXISTING STORM DRAINAGE
G.E.	GRATE ELEVATION	---	EXISTING SANITARY SEWER
I.E.	INVERT ELEVATION	---	EXISTING WATER MAIN
T.C.	TOP OF CURB	---	PROPOSED DRAINAGE PIPE
EOP	EDGE OF PAVEMENT	---	STRUCTURE DESIGNATION
P.R.B.	POLLUTION RETARDANT BASIN	---	LENGTH, SIZE OF PIPE
150' @ 0.5%	PAVEMENT SLOPE	---	EXISTING GRADE
F.F. = 10.00	FINISHED FLOOR ELEVATION	---	PROPOSED GRADE

THE PROPOSED SHUTTLE ROUTE AND ADDITIONAL STOPS MAY BE MODIFIED/ADDED AS THE PODS GET DEVELOPED.

NOTE: ALL ELEVATIONS IN NAVD 88

WESTERRA PHASE I SUNRISE, FLORIDA

PAVING, GRADING AND DRAINAGE PLAN

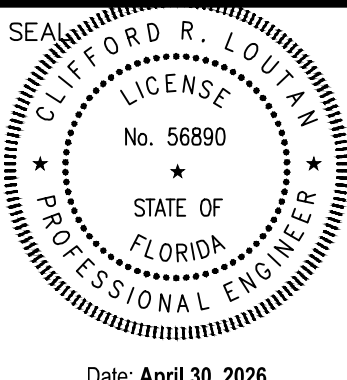


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REVISIONS

NO.	DATE	DESCRIPTION
1	10/24/25	AMENDMENT #1
2	02/17/26	AMENDMENT #2
3	04/26/26	AMENDMENT #3

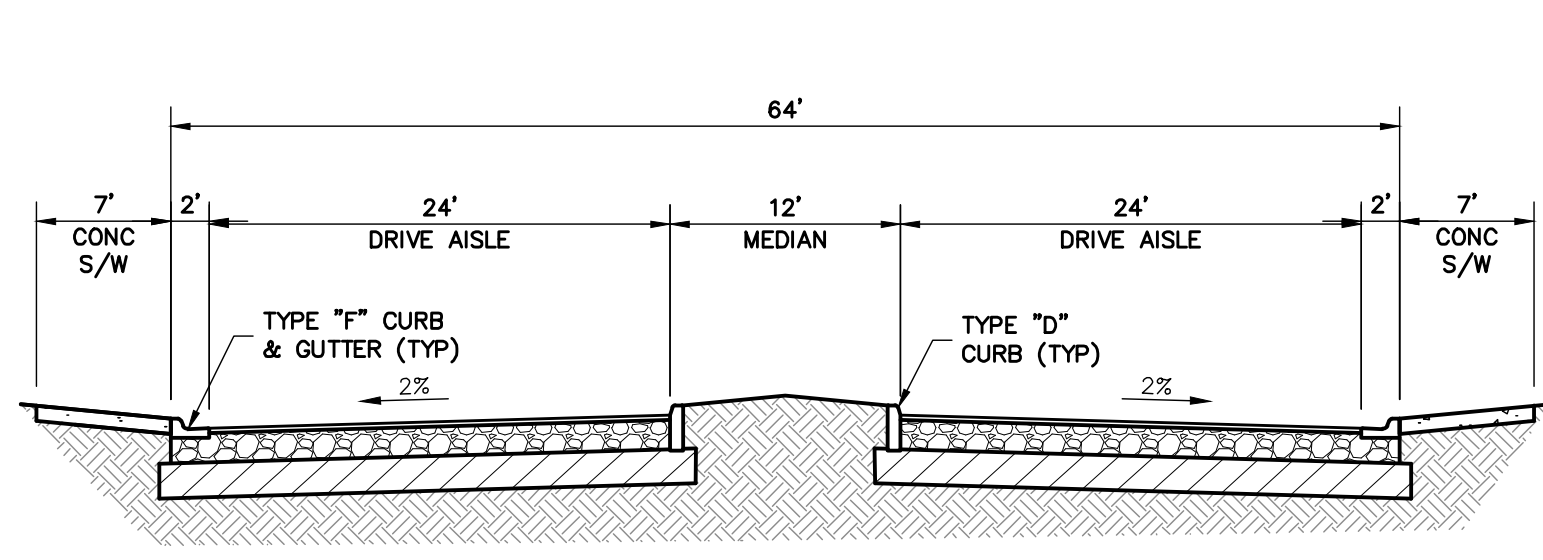
PROJECT NO. 22-4152



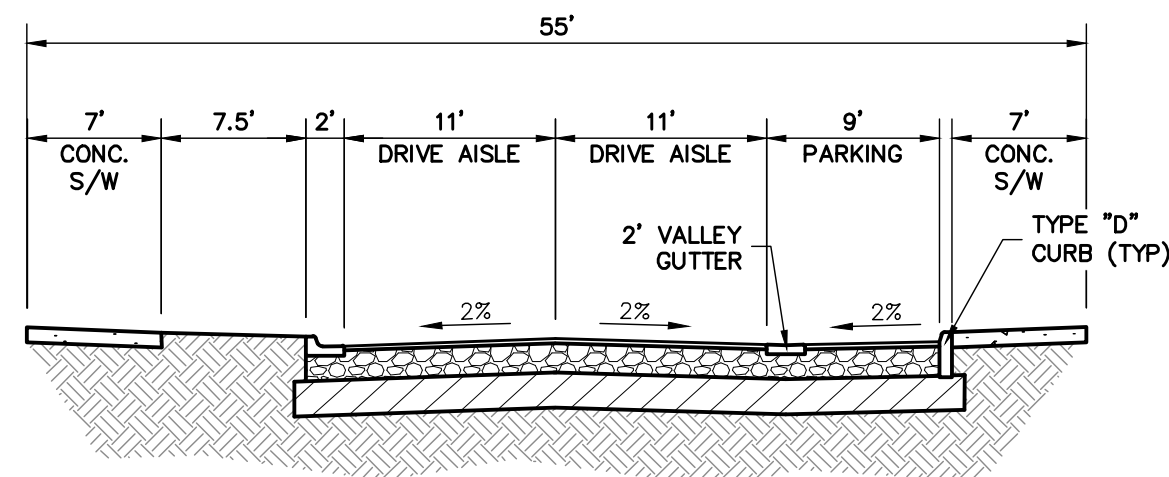
DATE:
02/17/25

DRAWING NO.
PD1

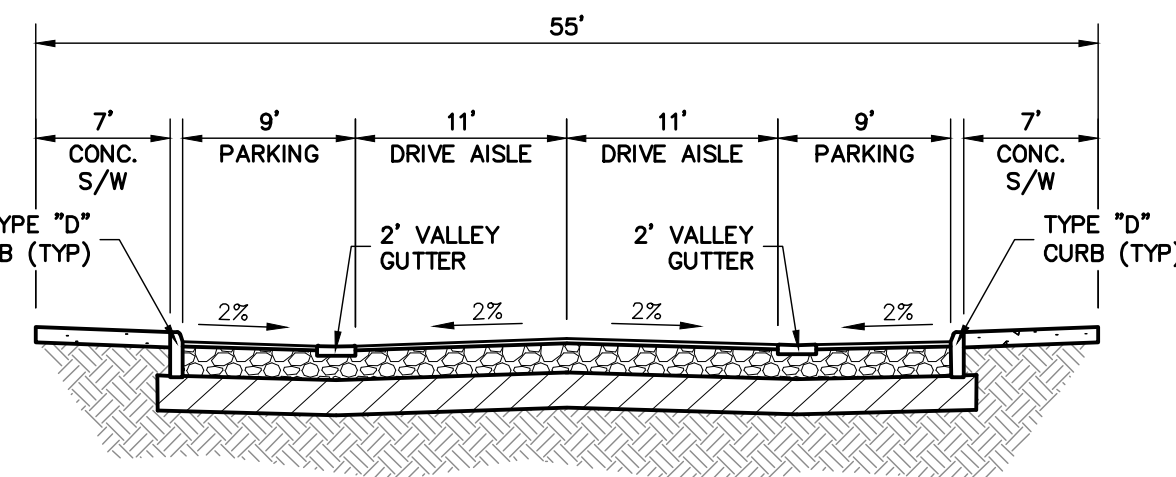
Date: April 30, 2026



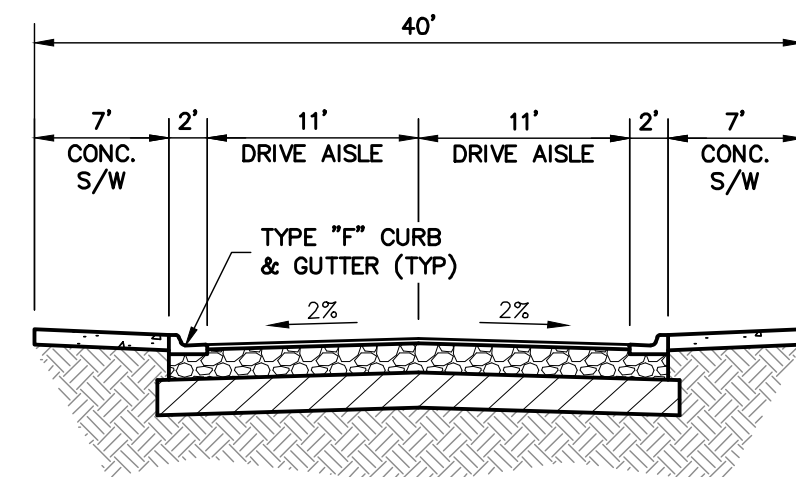
SECTION A-A
(ENTRY DRIVE WITH MEDIAN)
SCALE: 1"=10'



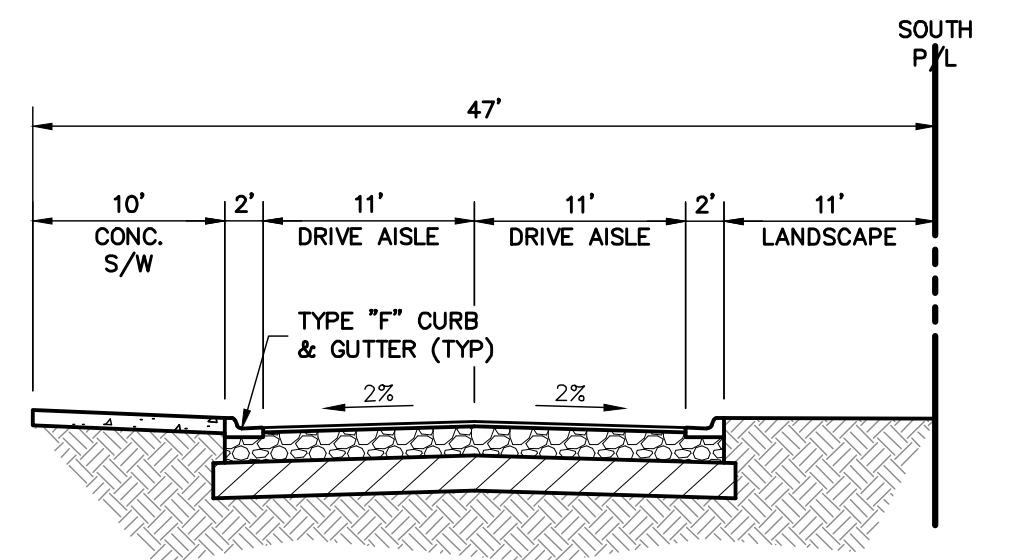
SECTION B-B
(SECONDARY INTERNAL COLLECTOR DRIVE)
SCALE: 1"=10'



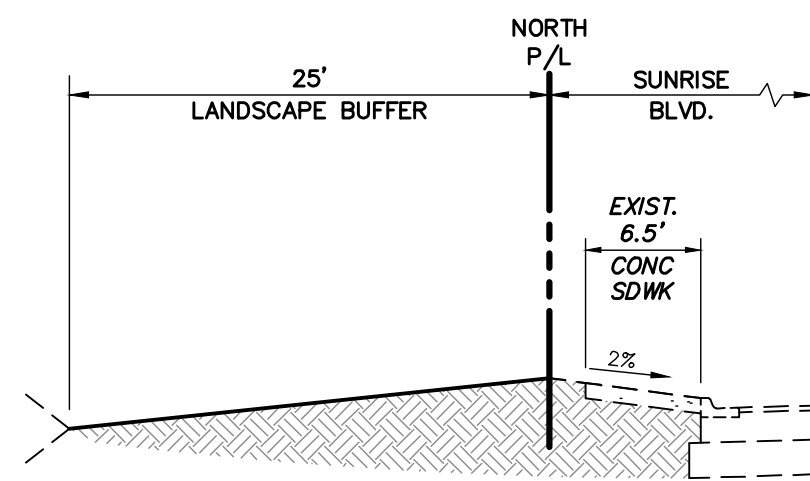
SECTION C-C
(SECONDARY INTERNAL COLLECTOR DRIVE AND PARALLEL PARKING)
SCALE: 1"=10'



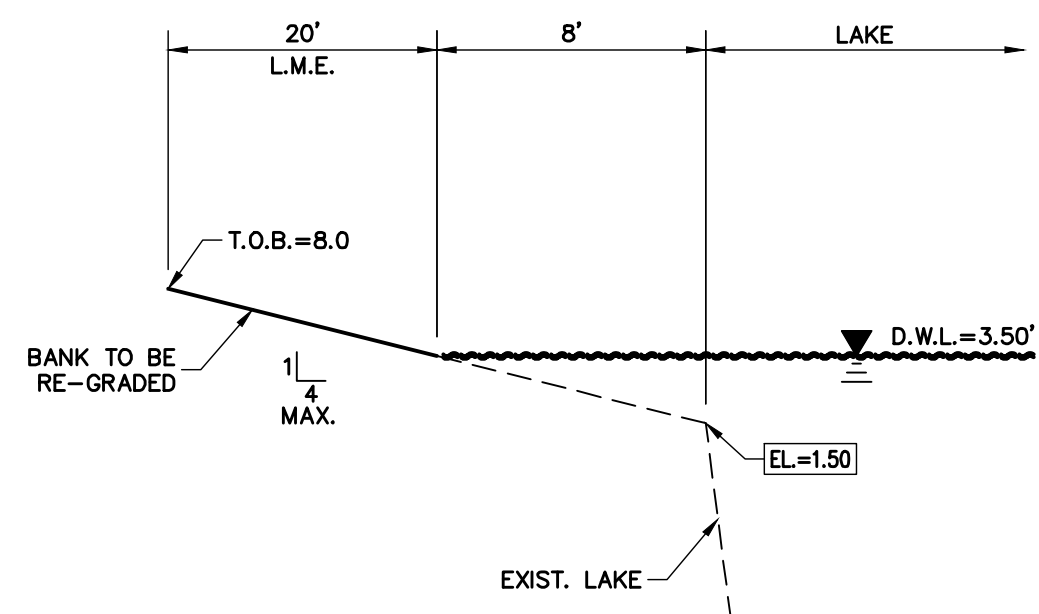
SECTION D-D
(ENTRY DRIVE)
SCALE: 1"=10'



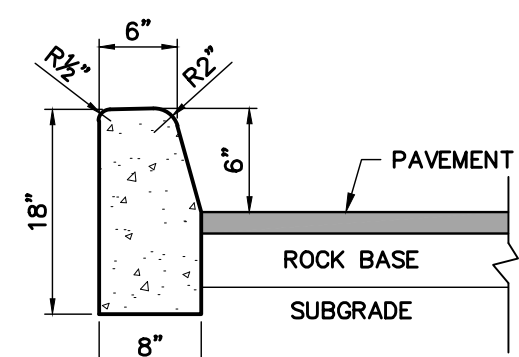
SECTION E-E
(TERTIARY INTERNAL COLLECTOR DRIVE AT SOUTH PROPERTY LINE)
SCALE: 1"=10'



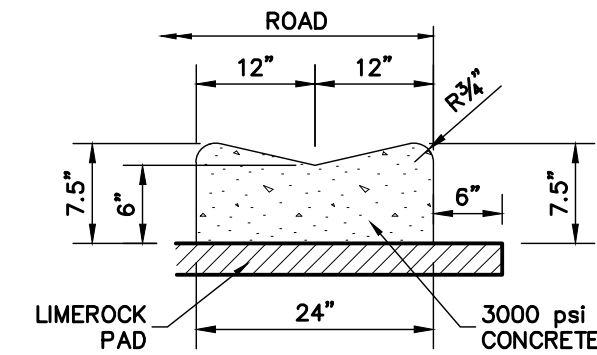
SECTION F-F
(BUFFER AT SUNRISE BOULEVARD)
SCALE: 1"=10'



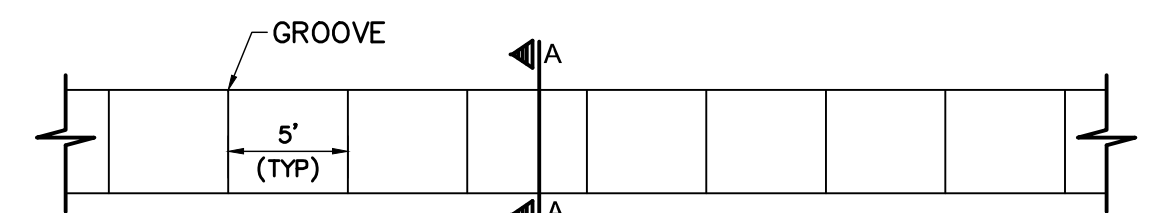
TYPICAL LAKE SECTION



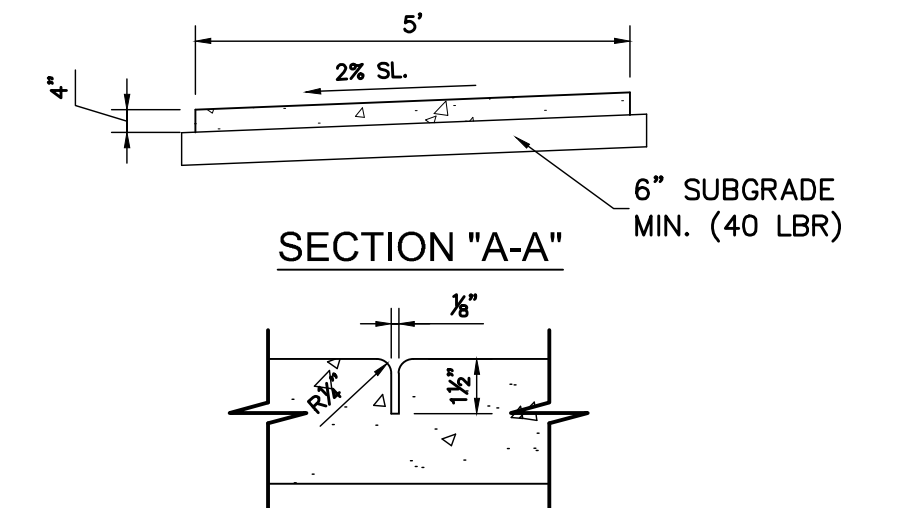
TYPE "D" CURB



VALLEY GUTTER DETAIL



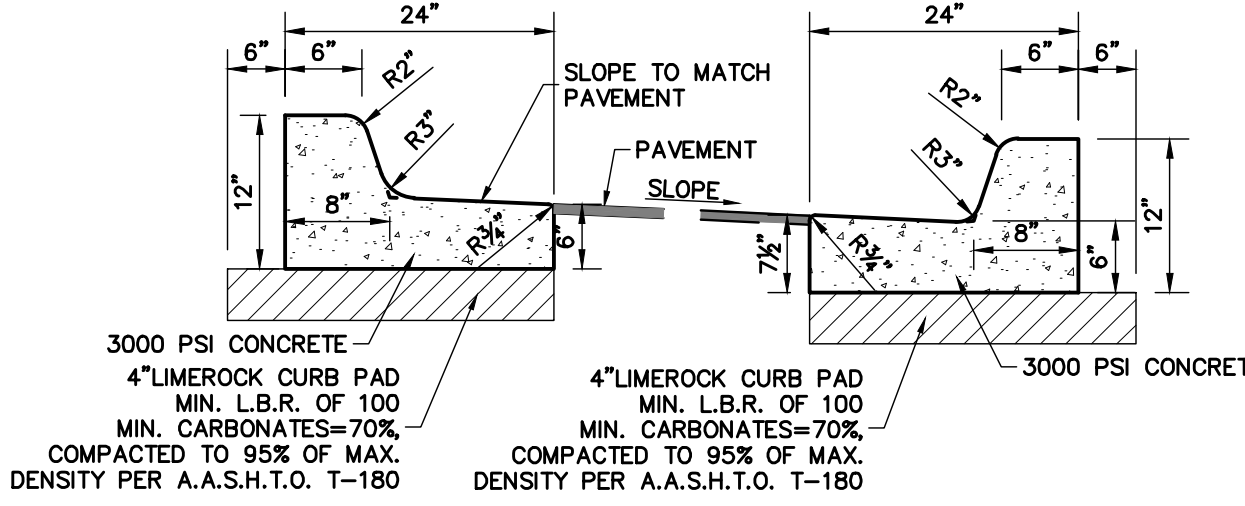
PLAN



GROOVE

NOTE:
ALL CONCRETE SHALL BE 3000 P.S.I., 4" THICK 6"
AT DRIVEWAYS ONLY

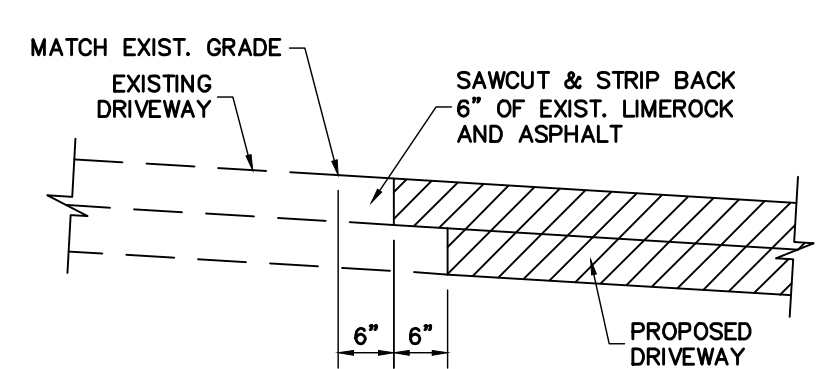
SIDEWALK DETAIL



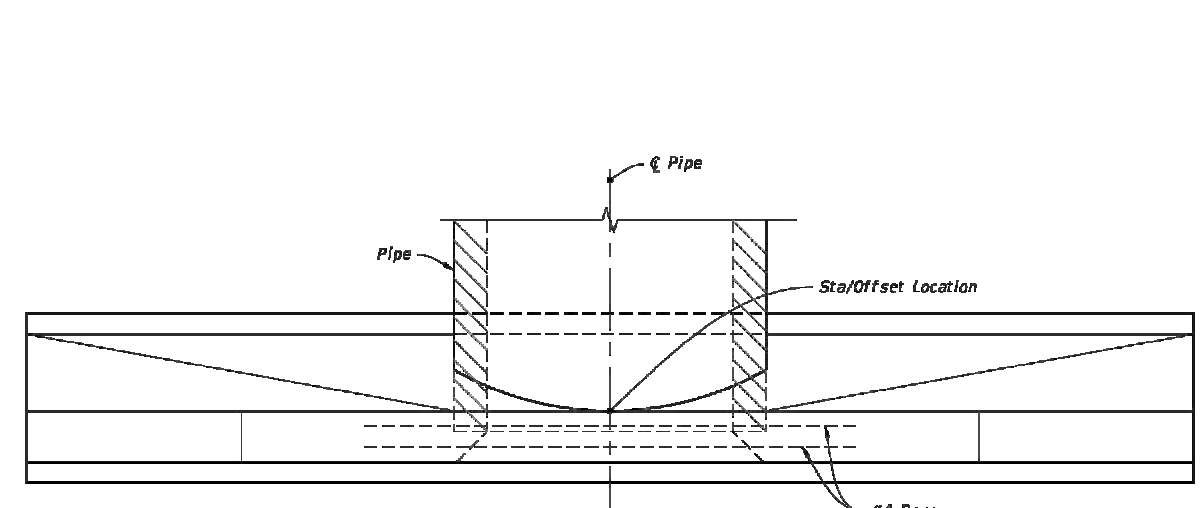
HIGH SIDE

LOW SIDE

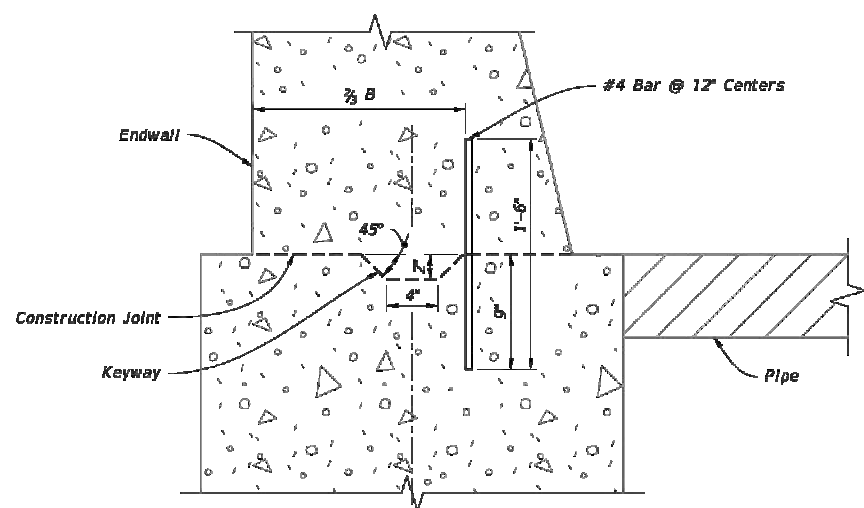
TYPE "F" CURB AND GUTTER



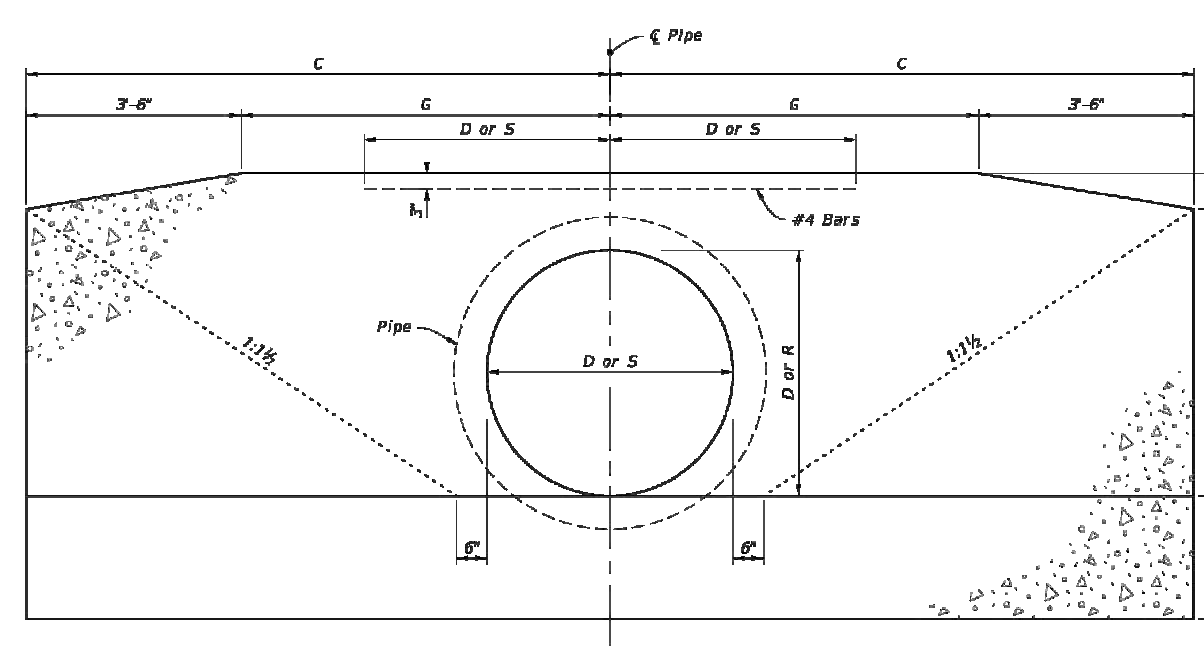
ASPHALT TIE-IN DETAIL



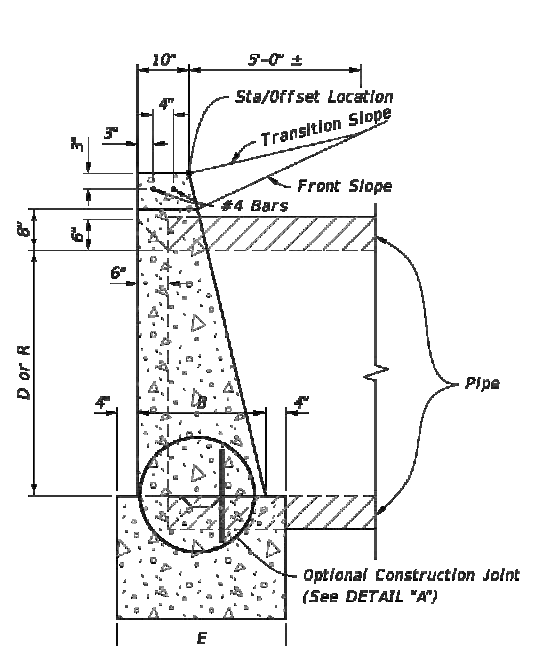
PLAN



DETAIL "A"



FRONT ELEVATION

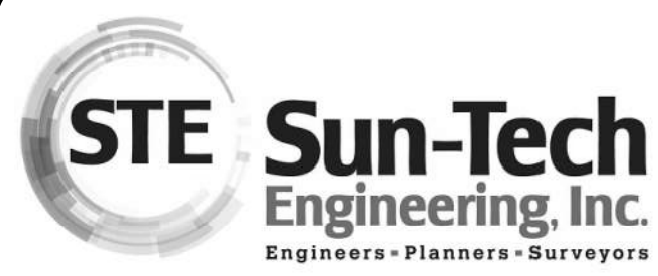


SIDE ELEVATION

CONCRETE ENDWALL DETAILS

LAST REVISION	DESCRIPTION	FY 2022-23 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX	SHEET
1/01/25				430-030	2 of 4

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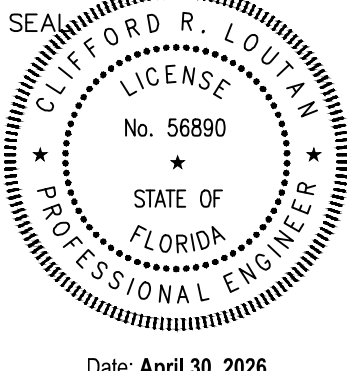
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NO.	DATE	DESCRIPTION
1	10/24/25	AMENDMENT #1

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SUNRISE, FLORIDA

PROJECT NO. 22-4152

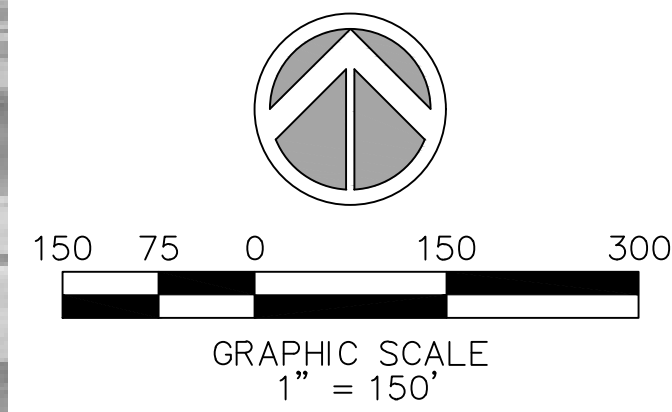
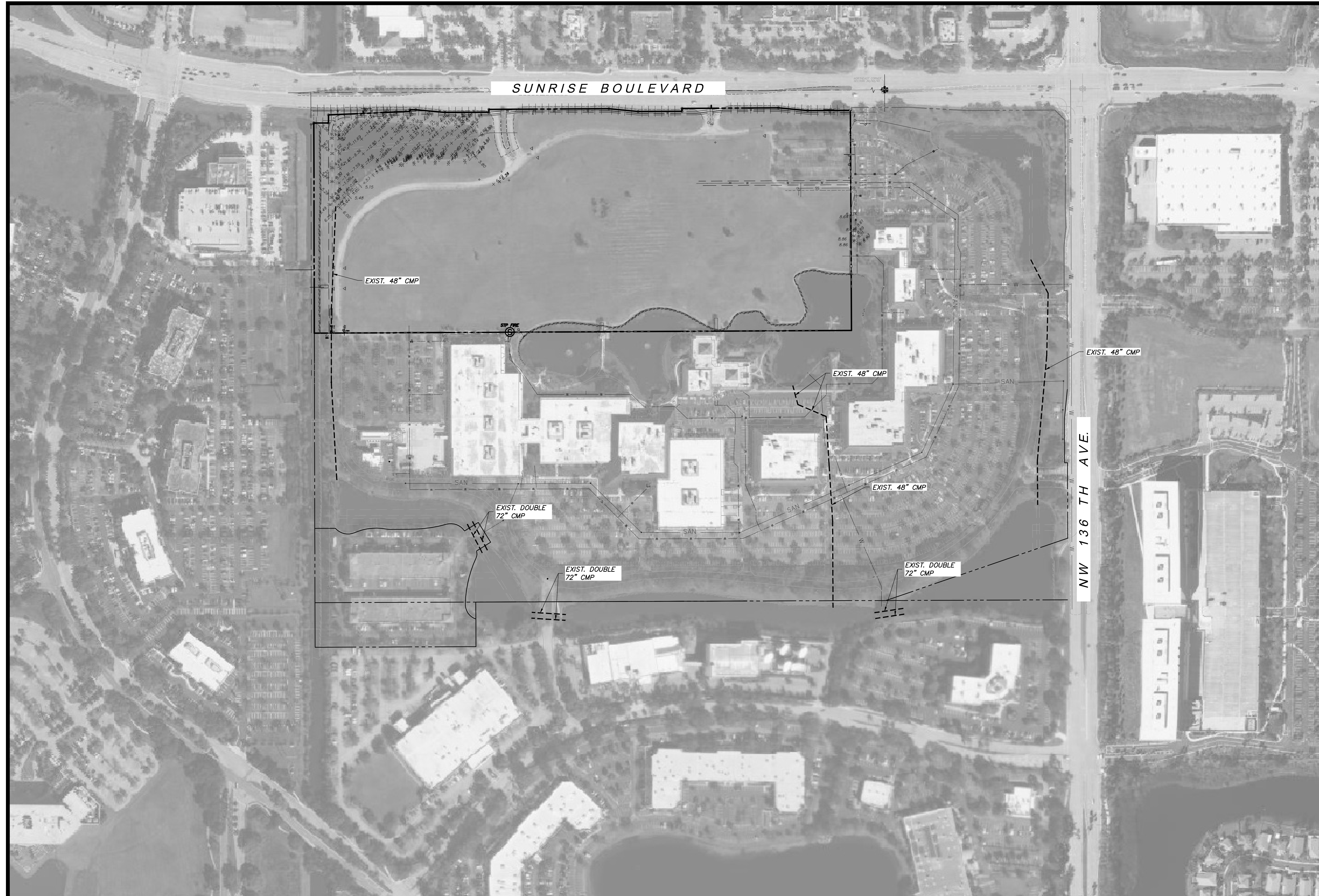
**PAVING, GRADING
AND DRAINAGE DETAILS**



DATE:
02/17/25

DRAWING NO.
PD2

Date: April 30, 2026



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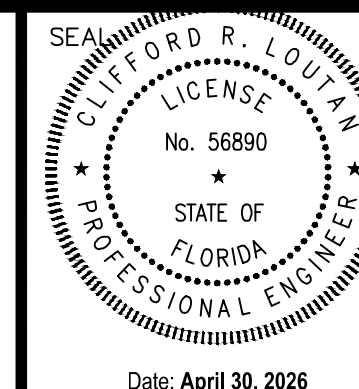
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PROJECT NO. 22-4152

WESTERRA PHASE I
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EXISTING LAKE INTERCONNECT PLAN



DATE:
02/17/25

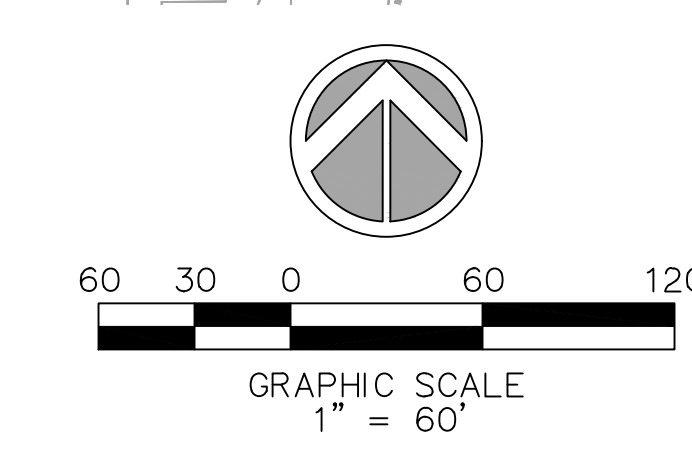
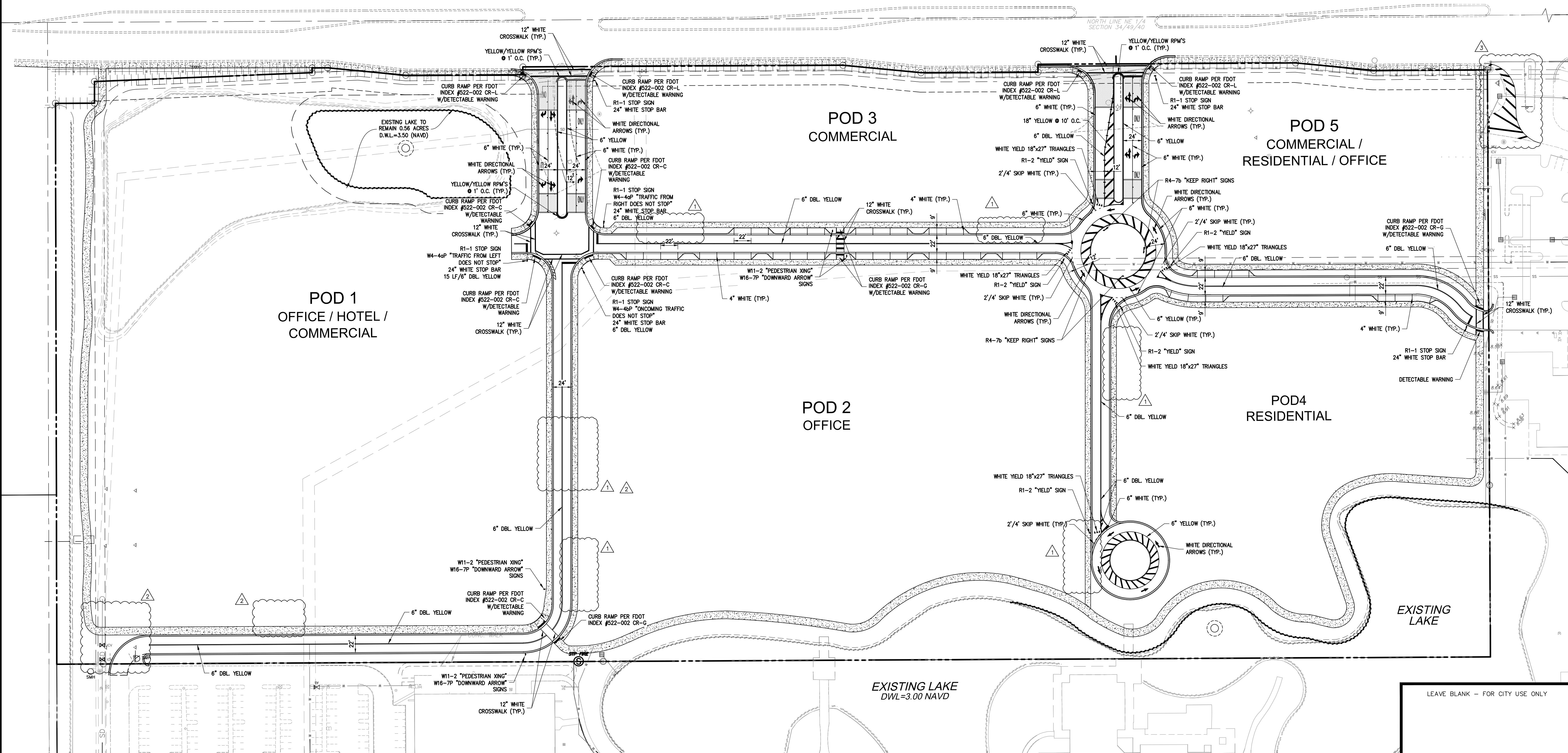
DRAWING NO.

PD3

Date: April 30, 2026

SUNRISE BOULEVARD

NORTHEAST CORNER
SECTION 34/49/40



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Engineers - Planners - Surveyors

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REVISIONS		
NO.	DATE	DESCRIPTION
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2	02/17/26	AMENDMENT #2

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PROJECT NO. 22-4152

PAVEMENT MARKINGS & SIGNAGE PLAN

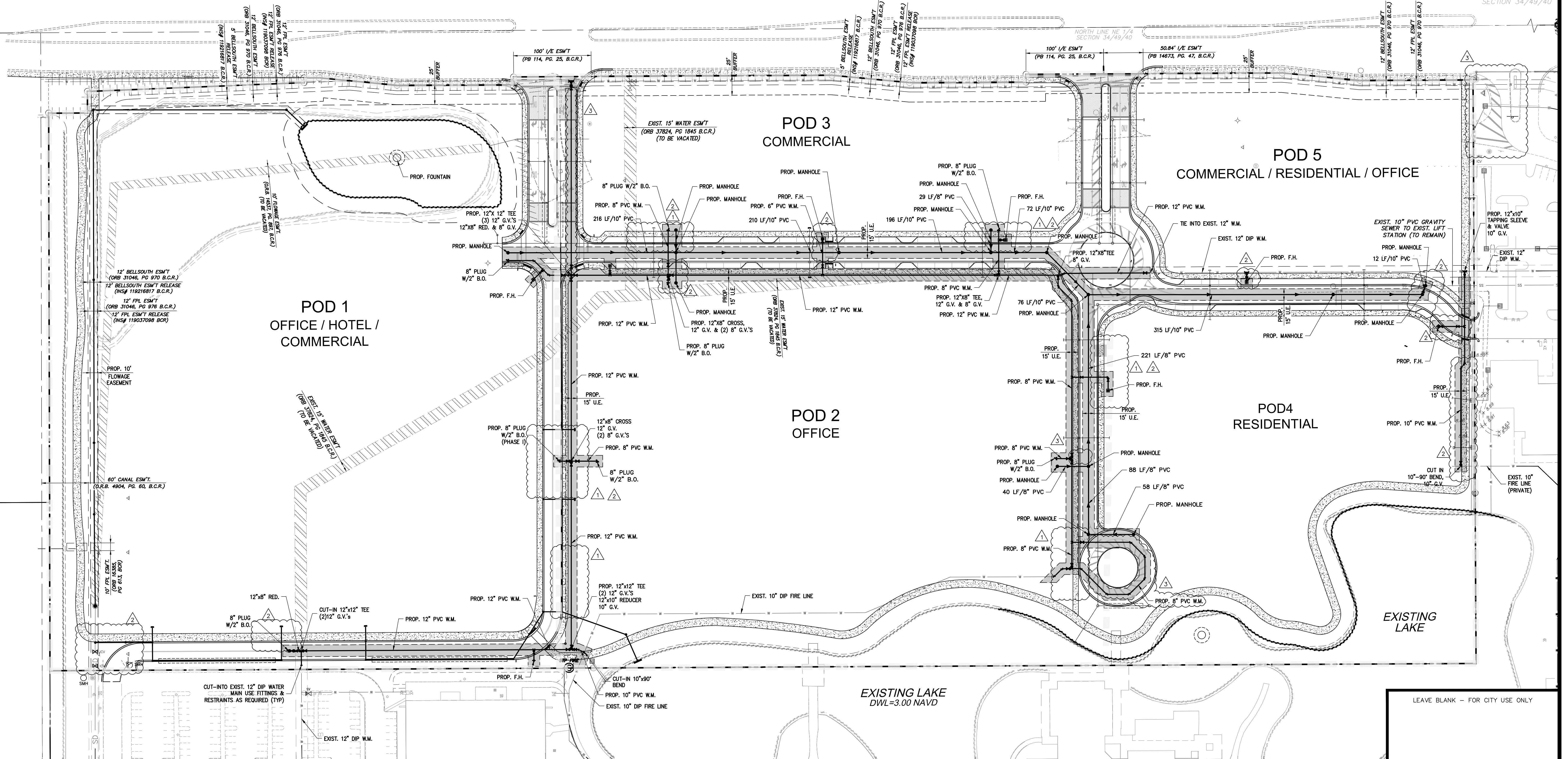
DATE:
02/17/25

DRAWING NO.
PMS1

Date: April 30, 2026

SUNRISE BOULEVARD

NORTHEAST CORNER
SECTION 34/49/40



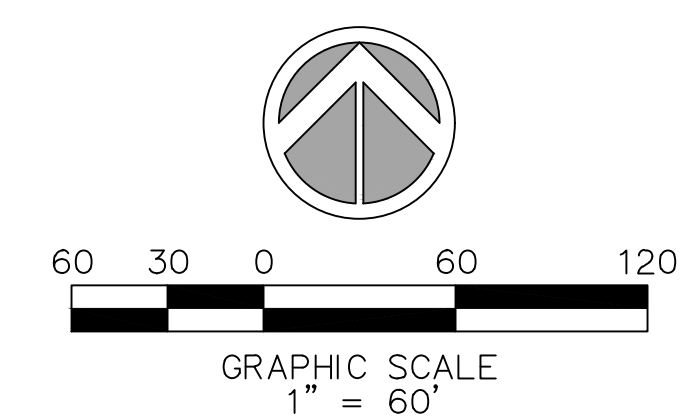
WATER & SEWER LEGEND

	DOUBLE WATER METER SERVICE	R.E.	RIM ELEVATION
	SINGLE WATER METER SERVICE	I.E.	INVERT ELEVATION
	LENGTH, SIZE & TYPE OF WATER MAIN		MANHOLE DESIGNATION
	FIRE HYDRANT, GATE VALVE & TEE ASSEMBLY		LENGTH & SLOPE OF PIPE
	PROPOSED GATE VALVE		DOUBLE SEWER LATERAL
	PROPOSED CHECK VALVE		SINGLE SEWER LATERAL
	BACTERIOLOGICAL SAMPLING POINT		CLEAN OUT TO GRADE
	EXISTING OR FUTURE UTILITIES		PROP LIGHT POLE
	DRAINAGE STRUCTURE w/PIPE		

	PROP. UTILITY EASEMENT
	EXIST. UTILITY EASEMENT TO BE VACATED

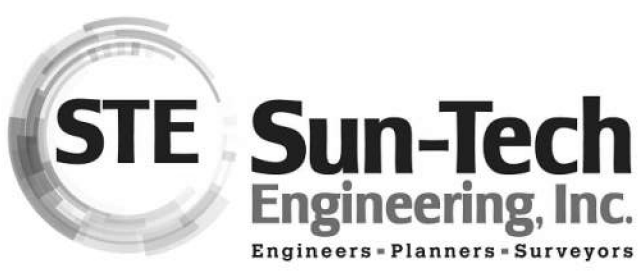
ESTIMATED SEWER FLOW		
OFFICE = 750,000 S.F. @ 0.20 G.P.D./S.F.	=	150,000 G.P.D.
COMMERCIAL = 50,000 S.F. @ 0.10 G.P.D./S.F.	=	5,000 G.P.D.
RESIDENTIAL = 750 UNITS @ 250 G.P.D./UNIT	=	187,500 G.P.D.
HOTEL = 300 RMS @ 150 G.P.D./RM	=	45,000 G.P.D.
TOTAL	=	387,500 G.P.D.

NOTE:
1. ALL PROPOSED WATER AND SEWER SHALL COMPLY WITH CITY OF SUNRISE MINIMUM STANDARDS.
2. NO VALVES SHALL BE PLACED WITHIN CURB OR SIDEWALK



NOTE: ALL ELEVATIONS IN NAVD 88

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3	04/26/26	AMENDMENT #3

WESTERRA PHASE I
SUNRISE, FLORIDA

PROJECT NO. 22-4152

WATER AND SEWER PLAN



DATE:
02/17/25

DRAWING NO.

WS1

Date: April 30, 2026