

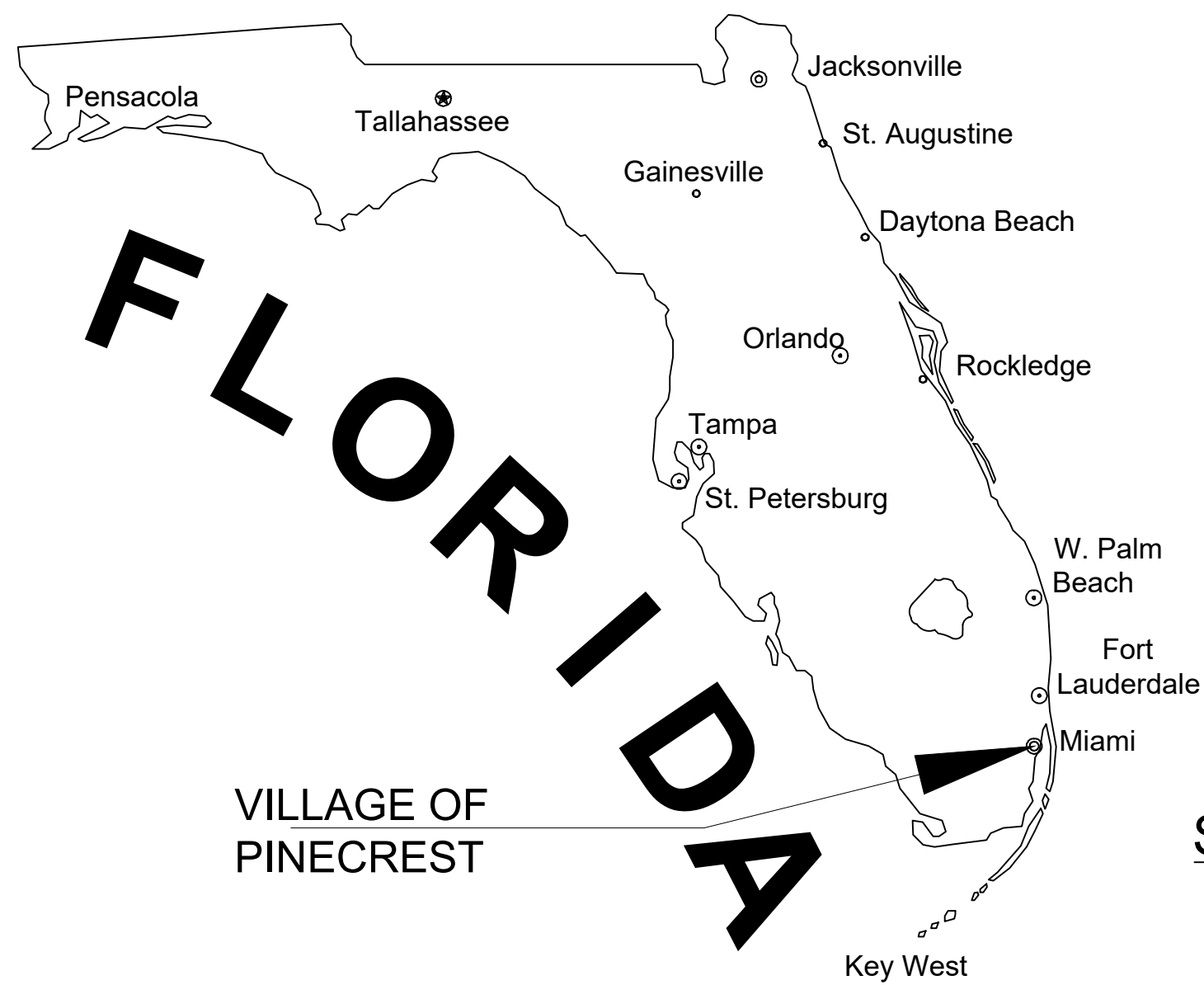
GARY MATZNER PARK

ENGINEERING PLANS

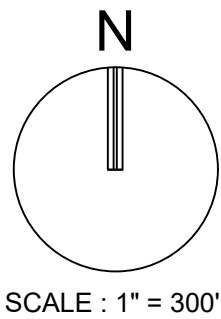
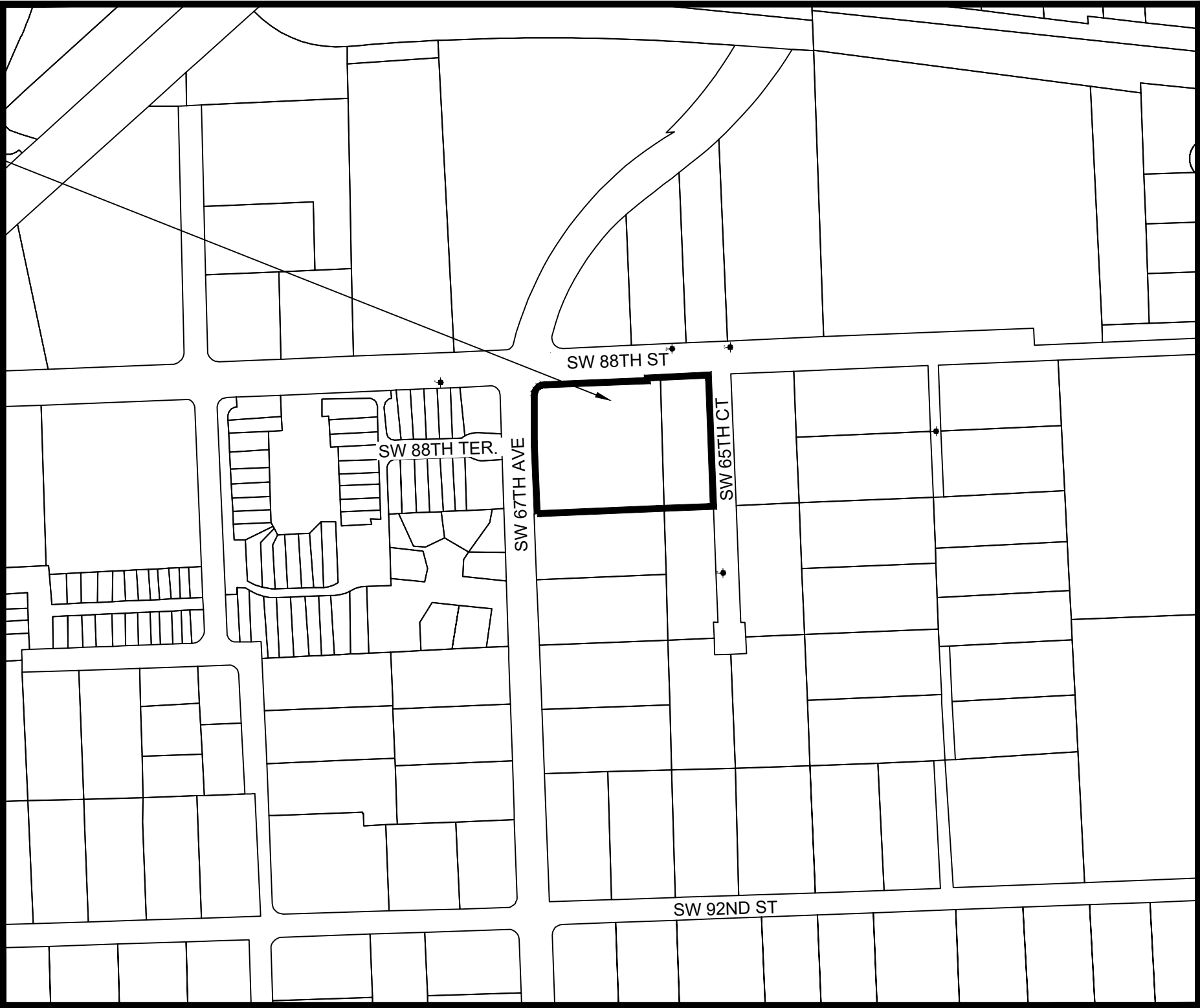
6610 N. KENDALL DR.

VILLAGE OF PINECREST

MIAMI-DADE COUNTY, FLORIDA



SITE LOCATION



LAND DESCRIPTION:

PARCEL 1:

THE NORTHWEST QUARTER (NW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF SECTION ONE (1), TOWNSHIP 55 SOUTH, RANGE 40 EAST, LESS THE NORTH 40 FEET THEREOF AND LESS THE WEST 40 FEET THEREOF, LYING AND BEING IN MIAMI-DADE COUNTY, FLORIDA,

PARCEL 2:

THE WEST ½ OF THE NORTHEAST QUARTER (NE ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF SECTION 1, TOWNSHIP 55 SOUTH, RANGE 40 EAST, LESS THE EAST 25 FEET OF SAID TRACT AND LESS THE NORTH 35 FEET THEREOF, LYING AND BEING IN MIAMI-DADE COUNTY, FLORIDA.

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NGVD 1929 DATUM

FEMA FLOOD ZONE:

THE PROPERTY IS LOCATED WITHIN FLOOD ZONE X WITH NO BASE FLOOD ELEVATION, AS SHOWN ON F.I.R.M. NUM. 12086C0458L, BEARING A MAP EFFECTIVE DATE OF 09/11/2009.

811 TICKET No. 349305403



Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

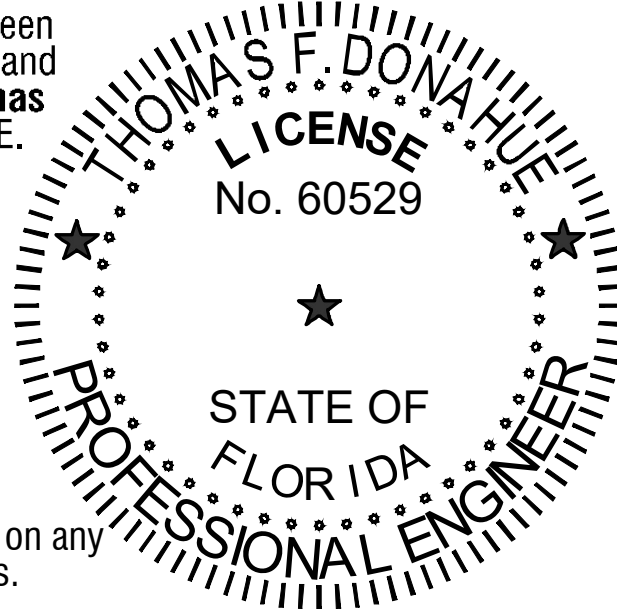
Check positive response codes before you dig!

THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PREPARED FOR: VILLAGE OF PINECREST
PARKS & RECREATION
12645 PINECREST PARKWAY
PINECREST, FL 33156

SHEET IDENTIFICATION	SHEET TITLE
GI-000	COVER SHEET
GI-001	LEGEND AND ABBREVIATIONS
GI-002	GENERAL CONSTRUCTION NOTES
GI-003	CONSTRUCTION SPECIFICATIONS
VI-00X	TOPOGRAPHIC SURVEY
CG-101	EROSION CONTROL PLAN
CG-501	EROSION CONTROL DETAILS
CD-101	DEMOLITION PLAN
CP-101	PAVING, GRADING, AND DRAINAGE PLAN
CP-201	PAVING, GRADING, AND DRAINAGE PROFILES
CP-301	PAVING AND GRADING SECTIONS
CP-501 & CP-502	PAVING, GRADING, AND DRAINAGE DETAILS
CU-101	WATER AND SEWER PLAN
CU-201	WATER AND SEWER PROFILES
CU-501 & CU-502	WATER AND SEWER DETAILS
CM-101	PAVEMENT MARKING AND SIGNAGE PLAN
CM-501	PAVEMENT MARKING AND SIGNAGE DETAILS

This item has been digitally signed and sealed by **Thomas F. Donahue, P.E.** on the date adjacent to the seal.



Signature must be verified on any electronic copies.



2026.03.04 08:26:07-05:00
THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

PROJECT No. 13861.00 MARCH, 2026

E
D
C
B
A

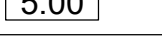
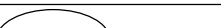
GENERAL SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED SECTION MARKER INDICATING THE SECTION LETTER AND THE SHEET ON WHICH THE SECTION VIEW APPEARS.
	DETAIL REFERENCE CALL OUT INDICATING THE DETAIL NUMBER AND THE SHEET ON WHICH THE DETAIL VIEW APPEARS.
	REVISION TRIANGLE NUMBER
	MISC BREAK LINES
	PHOTO LOCATION AND CORRESPONDING PICTURE NUMBER.
N: 623025.4322 E: 850262.1786	COORDINATE VALUES SHOWN ON PROPOSED IMPROVEMENTS ARE RELATIVE TO THE COORDINATE VALUES INDICATED ON THE RIGHT-OF-WAY, PROPERTY CORNERS OR REFERENCE MONUMENT

GEN SITE & PMS

SYMBOL	DESCRIPTION
	PAVEMENT MARKING ARROWS
	STOP BAR
	ADA PARKING
	CONCRETE CAR STOP
	BICYCLE
	BICYCLE RACK
	AUTOMOBILE
	POST MOUNTED SIGNS 1,2, DOUBLE POST & 4 WAY
	PARKING SPACE NUMBER
	BASELINE, CENTER, PROPERTY, FLOW & MONUMENT LINE
	BUILDING ACCESS (ADA) / (NON-ADA)

PAVING & GRADING

SYMBOL	DESCRIPTION
	FLOW DIRECTIONAL ARROW
	5.00 MAJOR / MINOR CONTOUR ELEVATION
	GRADE ELEVATION
	TOP OF CURB / PAVEMENT ELEVATION
	MATCH EXISTING GRADE
	SLOPE BANK
	DRIVEWAY TURNOUT IDENTIFICATION (FDOT INDEX 522-003) W/ DRIVE WIDTH
	SIDEWALK CURB RAMP (PER FDOT INDEX 522-002)
	SEAWALL

UTILITY PIPES

SYMBOL	DESCRIPTION
	PIPE FITTINGS: TEE, 90, 45, 22.5, 11.2, CAP,
	CAP W/VO, REDUCER, VERTICAL, PLUG
	VALVES: GATE, BUTTERFLY, DOUBLE BTRFLY, BFP, DDCV, VACUUM BREAKER
	MAN/AUTO BLOWOFF, ARV, PIV, FLUSH VLV, CORP STOP
	SAMPLE PNT, HYDRANT, FDC, WATER WELL
	TAPPING SADDLE
	EXFILTRATION TRENCH
	PIPE CASING
	VENT PIPE BOX
	UTILITY CROSSING

HATCH PATTERNS

SYM	DESCRIPTION	SYM	DESCRIPTION
	CONCRETE AREA		BRICK PAVERS
	JOGGING PATH		SOIL TRACKING PREVENTION DEVICE
	PAVEMENT AREA		SAND (DETAIL / ELEVATION)
	BUILDING HATCH		EARTH (DETAIL / ELEVATION)
	MILLING AND RESURFACING		GRAVEL (DETAIL / ELEVATION)
	DETECTABLE WARNING PER FLORIDA CODE		GRASS AREA
	DEMOLITION AREA		ADA STRIPING

UTILITY STRUCTURES

SYMBOL	DESCRIPTION	
	FDOT C,D,E,F,G & FABRIC CATCH BASIN	
	NON-FDOT ROUND CB'S & MANHOLES, MDC STRUCTURE	
	FDOT CURB INLETS TYPE1-TYPE10	
	TRENCH DRAIN	
	PIPE CULVERT - MITERED END SECTION	
	STRAIGHT ENDWALL	
	PUMP STATION LOCATION AND NUMBER	
	GREASE TRAP SINGLE AND DOUBLE	
	SEPTIC TANK	
	SEPTIC DRAIN FIELD	
	DRAINAGE WELL, DRAIN C.B., CONTROL STRUCTURE	
	MONITORING WELL	
	WATER WELL	
	METER BOX WATER AND IRRIGATION	
	YARD DRAIN / 9\"/>	
	CLEAN OUT 6\", 4\"/>	
	STORM STRUCTURE TABLE REFERENCE NUMBER	
	SEWER STRUCTURE TABLE REFERENCE NUMBER	
CONST. 4' Ø MAS RIM EL. = 10.00 N INV. EL. = 4.00 - XX\"/>	SEWER STRUCTURE CALLOUT (SHOWN AS A CIRCLE CIRCUMSCRIBING THE STRUCTURE NUMBER.)	INDICATES STRUCTURE NUMBER, STATION & OFFSET, STRUCTURE SIZE & TYPE, RIM/GRATE ELEVATION, PIPE INVERT ELEVATIONS & DIRECTION, PIPE SIZE & MATERIAL AS WELL AS ANY SPECIAL NOTES.
CONST. 4' Ø CB RIM EL. = 10.50 (N) INV. EL. = 4.50 - XX\"/>	STORM STRUCTURE CALLOUT (SHOWN AS A HEXAGON CIRCUMSCRIBING THE STRUCTURE NUMBER.)	

LINE TYPES

PROPOSED UTILITIES	
	WATER LINE
	SANITARY SEWER
	FORCE MAIN
	LOW PRESSURE FM
	STORM DRAIN
	PRESSURE STORM
	IRRIGATION
	RAW WATER
	RECLAIMED WATER
	GAS LINE

TOPO	
	BREAKLINE
	MAJOR CONTOUR
	MINOR CONTOUR
	TOP OF BANK
	TOE OF SLOPE
	EDGE OF WATER
	CENTERLINE OF SWALE

PROPOSED ENCUMBRANCES	
	PROPERTY LINE
	ROW LINE
	BUILDING SETBACK LINE
	BUFFER LINE
	EASEMENT LINE

DESCRIPTION	ABBREVIATION
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL
BIT.	BITUMINOUS
BC	BACK OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DDCV	DOUBLE DETECTOR CHECK VALVE
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWY	DRIVEWAY
ELEV (OR EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EOW	EDGE OF WATER
EXIST (OR EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDC	FIRE DEPARTMENT CONNECTION
FDN.	FOUNDATION
FH	FIRE HYDRANT
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MEG	MATCH EXISTING GRADE
MH	MANHOLE
MIN	MINIMUM
NIC	NOT IN CONTRACT

DESCRIPTION	ABBREVIATION
NO.	NO. NUMBER
O/S or OFF	O/S or OFF OFFSET
PB	PB PLAT BOOK
PC	PC POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
RSGV	RESILIENT SEAT GATE VALVE
RT	RIGHT
R/W	RIGHT OF WAY
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOB	TOP OF BANK
TOS	TOP OF SLOPE
TSV	TAPPING SLEEVE AND VALVE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

LINE WEIGHTS

EXISTING	SHADED LINES & TEXT DENOTE EXISTING EQUIPMENT AND STRUCTURES.
FUTURE	NON-SHADED DASHED LINES & TEXT DENOTE FUTURE EQUIPMENT, STRUCTURES AND WORK.
PROPOSED / CONSTRUCT	NON-SHADED, BOLD, SOLID LINES & TEXT DENOTE PROPOSED EQUIPMENT, STRUCTURES AND WORK.

NOTE: THIS IS A STANDARD LEGEND SHEET. NOT ALL ITEMS ARE PERTINENT TO THIS SET OF DRAWINGS

PROJECT LEAD & CIVIL ENGINEERING:

KEITH
301 EAST ATLANTIC BLVD.
FOURMANS BEACH, FL 33060
PH: (954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB68669
Florida Landscape Architecture Business License: LC26000457

LANDSCAPE ARCHITECT:

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801 INTERNATIONAL PARKWAY
LAKE MARY, FL 32746
407.871.9807
MKSKSTUDIOS.COM

ARCHITECT:

WA
WANNEMACHER, JENSEN ARCHITECTS
815 NORTHWEST 57 AVE. SUITE 219
MIAMI, FLORIDA 33126
727-822-5568
WJARC.COM AA0002277

MECHANICAL, PLUMBING, & ELECTRICAL ENGINEERING:

SGM
ENGINEERING
5301 WATERFORD DISTRICT DR.
SUITE 750
954-421-1944
SGMENGINEERING.COM CA-00006208

REVISIONS		
NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	11/21/2024
	REVISED FOR BUILDING PERMIT	01/10/2025

ISSUE DATE: 03/02/2025
DESIGNED BY: BB, NW
DRAWN BY: CD, BB
CHECKED BY: TD

This item has been digitally signed and sealed by **Thomas F. Donahue, P.E.** on the date adjacent to the seal.
Signature must be verified on any electronic copies.

2026.03.04 08:26:29-0500

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT
VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT

GARY MATZNER PARK

SHEET TITLE

LEGEND AND ABBREVIATIONS

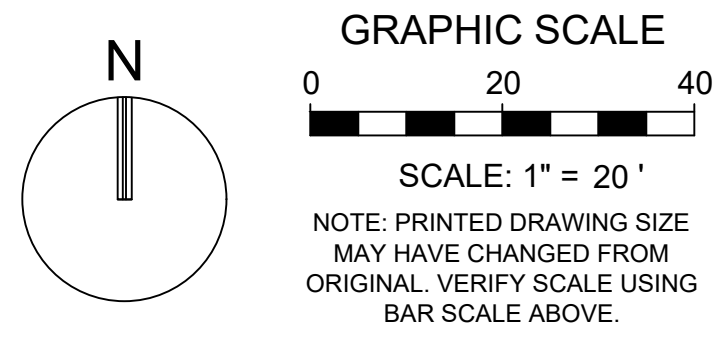
SHEET NUMBER **GI-001**

KEITH PROJECT NUMBER **13861.00**

STATUS: CONSTRUCTION DOCUMENTS

Plotted by: halba On: 3/2/2026 3:39 PM
Drawing name: K:\13861.00 - Gary Matzner Park Design - Village of Pinecrest\Engineering\Cadd\13861.00-GI-001.dwg

	1	2	3	4	5	6
CONSTRUCTION SPECIFICATIONS						
SECTION 20 - GENERAL SPECIFICATIONS PAVING GRADING DRAINAGE AND EARTHWORK	20. GENERAL					
	20.1. IT IS THE INTENT OF THESE SPECIFICATIONS TO DESCRIBE THE MINIMUM ACCEPTABLE TECHNICAL REQUIREMENTS FOR THE MATERIALS AND WORKMANSHIP FOR CONSTRUCTION OF SITE IMPROVEMENTS FOR THIS PROJECT. SUCH IMPROVEMENTS MAY GENERALLY INCLUDE, BUT NOT TO BE LIMITED TO, CLEARING, GRADING, PAVING, REMOVAL OF EXISTING PAVEMENT STORM DRAINAGE, WATER LINES AND SANITARY SEWERS.					
	20.2. IT IS THE INTENT THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION: (CURRENT EDITION) TOGETHER WITH "SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION), AND THE FDOT STANDARD PLANS FOR ROAD CONSTRUCTION (CURRENT EDITION) BE USED WHERE APPLICABLE FOR THE VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THE WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY; THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" TOGETHER WITH THE "FDOT STANDARD PLANS FOR ROAD CONSTRUCTION" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT. IF WITHIN A PARTICULAR SECTION, ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE PART OF THE STANDARD SPECIFICATIONS ALSO. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL AND STATE LAWS, REGULATIONS AND BUILDING CODES WHICH HAVE JURISDICTION IN THE AREA.					
	20.3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE THE CONSTRUCTION OF A PAVING AND DRAINAGE SYSTEM AS SHOWN ON THE PLANS, SPECIFIED HEREIN, OR BOTH. IT IS THE INTENT TO PROVIDE A COMPLETE AND OPERATING FACILITY IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS. THE MATERIAL AND EQUIPMENT SHOWN OR SPECIFIED SHALL NOT BE TAKEN TO EXCLUDE ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.					
	20.4. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND CONSTRUCTION SPECIFICATIONS AND THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE UNIT OF GOVERNMENT WHICH HAS JURISDICTION AND RESPONSIBILITY FOR THE CONSTRUCTION. WHERE CONFLICTS OR OMISSIONS EXIST, THE JURISDICTIONAL GOVERNMENT ENGINEERING DEPARTMENT'S STANDARDS SHALL GOVERN. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.					
	20.5. GUARANTEE - ALL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT, SHALL BE GUARANTEED FOR A PERIOD OF (1) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR MATERIALS SHALL BE REPLACED PROMPTLY WITH NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE NECESSARY REPLACEMENT OR REPAIRS WITHIN (7) SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.					
	21. EARTHWORK					
	21.1. ALL AREAS WITHIN THE PROJECT LIMITS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 1'. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 110 OF THE STANDARD SPECIFICATIONS.					
	21.2. NONE OF THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT IS TO BE INCORPORATED IN THE NEW LIMEROCK BASE, UNLESS NOTED IN PLANS. THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT MAY BE INCORPORATED INTO THE STABILIZED SUBGRADE / SUBBASE, OR STABILIZED SHOULDER.					
	21.3. FILL MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 120 AND 125 OF THE STANDARD SPECIFICATIONS.					
21.4. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.						
21.5. ALL MATERIAL OF CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND TESTING TO ESTABLISH CONFORMANCE WITH THE SPECIFICATIONS AND SUITABLY FOR THE USES INTENDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO THE TIME CONTRACTOR WILL BE READY FOR AN INSPECTION OR TEST. THE CONTRACTOR SHALL FOLLOW CITY AND COUNTY INSPECTION PROCEDURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PHASE OF WORK DEPENDENT ON AN INSPECTION OR TEST OF AN EARLIER PHASE OF WORK, PRIOR TO THAT TEST OR INSPECTION PASSING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND LIMEROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.						
21.6. WHEN MUCK, CLAY, ROCK, OR ANY OTHER MATERIAL THAT IS UNSUITABLE IN ITS ORIGINAL POSITION ARE ENCOUNTERED BENEATH PROPOSED PAVEMENT AND SIDEWALK AREAS, THE UNSUITABLE MATERIALS SHALL BE COMPLETELY REMOVED FROM BENEATH THE PAVEMENT AND SIDEWALK AREAS AND (10) TEN FEET BEYOND THE EDGE OF PAVEMENT. ALL SUCH UNSUITABLE MATERIAL REMOVED BY THE SUBSOIL EXCAVATION, SHALL BE REPLACED WITH ACCEPTABLE EMBANKMENT MATERIAL, AS SPECIFIED IN THE STANDARD SPECIFICATIONS.						
21.7. WHEN MUCK, CLAY,HARDPAN OR ANY OTHER MATERIAL THAT IS UNSUITABLE IN ITS ORIGINAL POSITION, ARE ENCOUNTERED BENEATH PROPOSED DRAINAGE SWALES OR DRY RETENTION AREAS, THE UNSUITABLE MATERIALS SHALL BE COMPLETELY REMOVED FROM BENEATH THE DRAINAGE SWALES AND DRY RETENTION AREAS. ALL SUCH UNSUITABLE MATERIAL REMOVED BY THE SUBSOIL EXCAVATION, SHALL BE REPLACED WITH COARSE SAND, OR OTHER SUITABLE GRANULAR MATERIAL, AS SPECIFIED IN THE STANDARD SPECIFICATIONS.						
21.8. ALL UNDERGROUND UTILITIES AND DRAINAGE INSTALLATIONS SHALL BE IN PLACE PRIOR TO SUBGRADE COMPACTION AND PAVEMENT CONSTRUCTION.						
21.9. GROUND ADJACENT TO ROADWAY/PAVEMENT HAVING RUNOFF SHALL BE GRADED (2) TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.						
21.10. SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1' OF THE REQUIRED						
ELEVATION FOR NON PAVED AREAS AND ALL AREAS SHALL BE GRADED TO DRAIN WITHOUT PONDING.						
21.11. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, FILL, EMBANKMENT AND GRADING TO ACHIEVE THE PROPOSED PLAN GRADES INCLUDING TYPICAL ROAD SECTIONS, SIDE SLOPES AND CANAL SECTIONS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS. IF FILL MATERIAL IS REQUIRED IN EXCESS OF THAT GENERATED BY THE EXCAVATION, THE CONTRACTOR SHALL SUPPLY THIS MATERIAL AS REQUIRED FROM OFF-SITE.						
21.12. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED OR SEEDED AND MULCHED WITHIN THE PROJECT LIMITS UNLESS OTHERWISE INDICATED ON THE PLANS.						
21.13. SOD SHALL BE ST. AUGUSTINE UNLESS OTHERWISE INDICATED ON THE PLANS, AND SHALL BE PLACED ON THE GRADED TOP SOIL AND WATERED TO INSURE SATISFACTORY CONDITION UPON FINAL ACCEPTANCE OF THE PROJECT.						
22. DRAINAGE						
22.1. INLETS - ALL INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 425 OF THE STANDARD SPECIFICATIONS. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.						
22.2. PIPE SPECIFICATIONS: PIPE MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 430 OF THE STANDARD SPECIFICATIONS, AND AS SHOWN IN THE PLANS.						
22.3. PIPE BACKFILL - REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE AS DEFINED IN THE SECTION 125-8, OF THE STANDARD SPECIFICATIONS. PIPELINE BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO T-99 SPECIFICATIONS)						
22.4. LOCATION OF DRAINAGE STRUCTURES SHALL GOVERN, AND PIPE LENGTH MAY HAVE TO BE ADJUSTED TO ACCOMPLISH CONSTRUCTION AS SHOWN ON THESE PLANS.						
22.5. DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE INNER WALLS OF STRUCTURES.						
22.6. FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 985 OF THE STANDARD SPECIFICATIONS.						
23. ASPHALT PAVING						
23.1. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.						
23.2. INTERNAL ASPHALT PAVING CONSTRUCTED ON EXISTING SANDY SOILS SHALL BE CONSTRUCTED WITH A 12" SUBGRADE, COMPACTED TO A MINIMUM DENSITY OF 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. THE COMPACTED SUBGRADE SHALL BE CONSTRUCTED IN THE LIMITS SHOWN ON THE PLANS. ALL SUBGRADE SHALL HAVE AN LBR OF 40 UNLESS OTHERWISE NOTED.						
23.3. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE SURFACE COURSE SHALL CONSIST OF THE THICKNESS AND TYPE ASPHALTIC CONCRETE AS SPECIFIED IN THE PLANS. ALL ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH SECTIONS 300, 320, 327, 330, 334, 337, 338, 339 AND 341 OF THE STANDARD SPECIFICATIONS.						
23.4. LIMEROCK BASE SHALL BE PREPARED, COMPACTED AND GRADED AND SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE STANDARD SPECIFICATIONS. ALL LIMEROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 AND HAVE NOT LESS THAN 70% OF CARBONATES OF CALCIUM AND MAGNESIUM UNLESS OTHERWISE DESIGNATED. THE ENGINEER SHALL INSPECT THE COMPLETED BASE COURSE AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES AND CLEAN THE BASE COURSE PRIOR TO THE PLACEMENT OF THE PRIME COAT. A TACK COAT WILL ALSO BE REQUIRED IF THE ENGINEER FINDS THAT THE PRIMED BASE HAS BECOME EXCESSIVELY DIRTY OR THE PRIME COAT HAS CURED TO THE EXTENT OF LOSING BOUNDING EFFECT PRIOR TO PLACEMENT OF THE ASPHALTIC CONCRETE SURFACE COURSE. THE PRIME AND TACK COATS SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE STANDARD SPECIFICATIONS.						
23.5. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO EQUAL LIFTS. IF, THROUGH FIELD TESTS, THE CONTRACTOR CAN DEMONSTRATE THAT THE COMPACTION EQUIPMENT CAN ACHIEVE DENSITY FOR THE FULL DEPTH OF A THICKER LIFT, AND IF APPROVED BY THE ENGINEER, THE BASE MAY BE CONSTRUCTED IN SUCCESSIVE COURSES OF NOT MORE THAN 8 INCHES (200 MM) COMPACTED THICKNESS.						
23.6. ASPHALT EDGES THAT ARE NOT CURBED SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE TO THE DIMENSIONS SHOWN ON PLANS.						
24. CONCRETE CONSTRUCTION						
24.1. CONCRETE SIDEWALK AND DRIVEWAYS SHALL BE IN ACCORDANCE WITH SECTION 522 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, INDEX NO. 522-001, 522-002, AND 522-003. CONCRETE SIDEWALK SHALL BE 4" THICK, UNLESS OTHERWISE NOTED.						
24.2. SIDEWALK CURB RAMPS SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD CONSTRUCTION , INDEX NO. 522-002.						
24.3. CONCRETE CURB SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS. CONCRETE CURBING SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, INDEX NO. 520-001.						
SECTION 30 - WATER DISTRIBUTION AND SANITARY SEWER FORCE MAINS.						
30. MATERIALS:						
NOTE: IF MATERIALS LIST HERE ON ARE IN CONFLICT WITH UTILITY OWNER, MATERIAL OWNER REQUIREMENTS SHALL GOVERN.						
30.1. ALL WATER MAIN PIPE, INCLUDING FITTINGS, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE. SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN						
A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPES WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.						
30.2. DUCTILE IRON PIPE FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C151/A21.51 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 51 (PRESSURE CLASS 350) UNLESS OTHERWISE NOTED IN THE PLANS. DUCTILE IRON PIPE SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104/A21.4 LATEST REVISION. THE PIPE SHALL BE ADAPTED FOR USE WITH CLASS 250 FITTINGS FOR ALL SIZES. WATER MAIN SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES.						
30.3. DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C151/A21.51 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND- LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 51 (PRESSURE CLASS 350) UNLESS OTHERWISE NOTED IN THE PLANS. DUCTILE IRON PIPE SHALL BE INTERIOR CERAMIC EPOXY LINED AND EXTERIOR COATED WITH THE MANUFACTURER'S COATING SYSTEM (PROTECTO 401 CERAMIC EPOXY WITH A MINIMUM DRY FILM THICKNESS OF 40 MILS AND AN OUTSIDE COATING OF EITHER COAL TAR EPOXY OR ASPHALT). CEMENT MORTARED LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION.						
30.4. ALL PIPE & FITTINGS ON THE LIFT STATION SITES SHALL BE DUCTILE IRON CONFORMING TO THE SAME SPECIFICATIONS AS ABOVE FOR SEWAGE FORCE MAINS EXCEPT THAT FLANGED DUCTILE IRON PIPE & FITTINGS SHALL BE USED INSIDE VALVE PITS AND WET WELLS. FLANGED PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA C115/A21.15 LATEST REVISION AND ANSI/AWWA C110/A21.10 LATEST REVISION. THE FOLLOWING THICKNESS CLASSES SHALL BE ADHERED TO: 4" - 12" - CLASS 52, 14" & LARGER - CLASS 51.						
30.5. PVC PRESSURE PIPE FOR SIZES 4" THROUGH 12" AND SHALL CONFORM TO ANSI/AWWA STANDARD C900 LATEST REVISION. PVC PRESSURE PIPE SHALL BE MADE FROM CLASS 12454-A OR CLASS 12454-B VIRGIN MATERIAL AND CONFORM WITH THE OUTSIDE DIAMETER OF CAST IRON PIPE WITH A MINIMUM WALL THICKNESS OF DR SERIES 18. ULTRA VIOLET DEGRADATION OR SUN BLEACHED PIPE WILL BE CAUSE FOR REJECTION. WATER MAIN SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES. FORCE MAIN SHALL BE IMPREGNATED WITH GREEN PIGMENT. REUSE MAIN SHALL BE IMPREGNATED WITH PURPLE PIGMENT.						
30.6. DUCTILE IRON FITTINGS FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C110/A21.10 LATEST REVISION, FITTINGS 4" AND LARGER SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104/A21.4 LATEST REVISION. WATER MAIN FITTING SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES.						
30.7. CAST IRON AND DUCTILE IRON FITTINGS FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C110/A21.10 LATEST REVISION, FITTINGS 4" AND LARGER SHALL BE COATED IN ACCORDANCE WITH THE REQUIREMENTS OF DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS.						
30.8. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11 LATEST REVISION, MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION-TYPE. SPECIAL FITTINGS AND JOINTS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION SUBJECT TO THE APPROVAL OF THE ENGINEER.						
30.9. JOINTS FOR PVC PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH-ON RUBBER GASKET TYPE ONLY. NO SOLVENT WELD OR THREADED JOINTS WILL BE PERMITTED.						
30.10. WATER DISTRIBUTION SYSTEM RESTRAINT: ALL FITTINGS AND SPECIFIC PIPE JOINTS SHALL BE RESTRAINED AS OUTLINED BELOW:						
• JOINT RESTRAINT						
• PUSH-ON P.V.C. EBAA IRON SERIES 1600						
• PUSH-ON DIP EBAA IRON SERIES 1700						
• TR-FLEX BY U.S. PIPE OR						
• FLEX RING BY AMERICAN						
• FITTINGS W/ DIP EBAA IRON SERIES 1100 MEGALUG						
• FITTINGS W/ P.V.C. EBAA IRON SERIES 2000 MEGALUG						
• LENGTH OF RESTRAINED PIPE SHALL BE AS INDICATED ON RESTRAINED JOINT PIPE DETAIL. (SEE WATER & SEWER DETAIL SHEET)						
30.11. SEWAGE FORCE MAIN SYSTEM RESTRAINT: ALL FITTINGS AND SPECIFIC PIPE JOINTS SHALL BE RESTRAINED AS OUTLINED BELOW						
• JOINT RESTRAINT						
• PUSH-ON P.V.C. EBAA IRON SERIES 1600						
• PUSH-ON DIP EBAA IRON SERIES 1700						
• TR-FLEX BY U.S. PIPE OR						
• FLEX RING BY AMERICAN						
• FITTINGS W/ DIP EBAA IRON SERIES 1100 MEGALUG						
• FITTINGS W/ P.V.C. EBAA IRON SERIES 2000 MEGALUG						
• LENGTH OF RESTRAINED PIPE SHALL BE AS INDICATED ON RESTRAINED JOINT PIPE DETAIL. (SEE WATER & SEWER DETAIL SHEET)						
30.12. WATER DISTRIBUTION VALVES SHALL BE GATE VALVES, IRON BODY, FULLY RESILIENT SEAT BRONZED MOUNTED NON-RIISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSI/AWWA C509 LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.						
30.12.1. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2361/2362, AMERICAN 250 LINE OR CLOW F-6100, CONFORMING TO ANSI/AWWA C500 LATEST REVISION OR APPROVED EQUAL.						
30.12.1.2 TAPPING VALVES SHALL BE MUELLER T-2361/2362 OR APPROVED EQUAL.						
30.12.1.3 GATE VALVES 3" OR LESS SHALL BE NIBCO T-133 OR T-136 WITH MALLEABLE HAND WHEELS OR APPROVED EQUAL.						
30.13. TAPPING SLEEVES SHALL BE MUELLER H615, CLOW F- 2505 OR APPROVED EQUAL.						
30.14. VALVE BOXES SHALL BE U.S. FOUNDRY 7500 OR APPROVED EQUAL PAINTED BLUE WITH THE DESIGNATION "WATER".						
30.15. RETAINER GLANDS FOR DIP SHALL CONFORM TO ANSI/AWWA C111/A21.11 LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS LABORATORIES FOR 250 PSI MINIMUM WATER PRESSURE RATING. CLOW CORPORATION MODEL F-1058, STANDARD FIRE PROTECTION EQUIPMENT COMPANY OR APPROVED EQUAL.						
30.16. DRESSER COUPLINGS SHALL BE REGULAR BLACK COUPLINGS WITH PLAIN GASKETS FOR GALVANIZED STEEL PIPE. THEY SHALL BE DRESSER STYLE 90. NO SUBSTITUTIONS ALLOWED.						
30.17. FIRE HYDRANTS SHALL BE MUELLER CENTURION TRAFFIC TYPE A-423 WITH 5 1/4" INTERNAL VALVE OPENING OR APPROVED EQUAL. PUMPER NOZZLE TO BE 18" FROM FINISHED GRADE. ALL HYDRANTS TO BE INSTALLED WITH CONTROL VALVE. RETAINER GLANDS ARE PREFERRED FOR RESTRAINING. FIRE HYDRANT SHALL COMPLY WITH ANSI/AWWA C502 LATEST REVISION. FIRE HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH NFPA #291 OR PER						
AGENCY STANDARDS HAVING JURISDICTION. BLUE RAISED REFLECTIVE PAVEMENT MARKER (RPM) SHALL BE USED TO IDENTIFY FIRE HYDRANT LOCATION. THE PLACEMENT OF THE RPM TO BE AT THE CENTERLINE OF THE OUTSIDE ROADWAY LANE.						
30.18. SEWAGE FORCE MAIN VALVES SHALL BE PLUG VALVES WHICH SHALL BE OF THE NON-LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUGS, PORT AREAS FOR VALVES 20 INCHES AND SMALLER SHALL BE AT LEAST 80% OF FULL PIPE AREA. PORT AREA OF VALVES 24 INCHES AND LARGER SHALL BE AT LEAST 70% OF FULL PIPE AREA. THE BODY SHALL BE OF SEMI-STEEL (ASTM A-126 C1.8) AND SHALL HAVE BOLTED BONNET WHICH GIVES ACCESS TO THE INTERNALS OF THE VALVE. SEATS SHALL BE WELDED OVERLAY OF HIGH NICKEL CONTENT OR A STAINLESS STEEL PLATE LOCKED IN THE BODY CAVITY. IF A PLATE IS USED, IT SHALL BE REPLACEABLE THROUGH THE BONNET ACCESS. BEARINGS SHALL BE PERMANENTLY LUBRICATED OF STAINLESS STEEL, BRONZE OR TEFLON LINED, FIBER GLASS BACKED DURALON. BEARING AREAS SHALL BE ISOLATED FROM THE FLOW WITH GRIT SEALS. VALVES SHALL HAVE PACKING BONNETS WHERE THE SHAFT PROTRUDES FROM THE VALVE AND THE PACKING SHALL BE SELF-ADJUSTING CHEVRON TYPE WHICH CAN BE REPLACED WITHOUT REMOVING THE BONNET. ALL NUTS, BOLTS, SPRINGS AND WASHERS SHALL BE STAINLESS STEEL.						
30.19. PLUG VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 150 PSI THE VALVE AND ACTUATOR SHALL BE CAPABLE OF SATISFACTORY OPERATION IN EITHER DIRECTION OF FLOW AGAINST PRESSURE DROPS UP TO AND INCLUDING 100 PSI (FOR PLUG VALVES OVER 12" IN DIAMETER). VALVES SHALL BE BUBBLE TIGHT IN BOTH DIRECTIONS AT 100 PSI DIFFERENTIAL. PLUG VALVES OVER 12" IN DIAMETER SHALL HAVE WORM GEAR OPERATORS. THE OPERATING MECHANISM SHALL BE FOR BURIED SERVICE WITH A 2 INCH SQUARE OPERATING NUT.						
30.20. PLUG VALVES ARE TO BE INSTALLED WITH THE SEAT POINTED TOWARDS THE UPSTREAM FLOW, WHEN SPECIFIED.						
30.21. SWING CHECK VALVES FOR WATER, SEWAGE, SLUDGE, AND GENERAL SERVICE SHALL BE OF THE OUTSIDE LEVER AND SPRING OR WEIGHT TYPE, IN ACCORDANCE WITH ANSI/AWWA C 508 LATEST REVISION SWING-CHECK VALVES FOR WATERWORKS SERVICE, 2" THROUGH 24" NPS, UNLESS OTHERWISE INDICATED, WITH FULL-OPENING PASSAGES, DESIGNED FOR A WATER-WORKING PRESSURE OF 150 PSI THEY SHALL HAVE A FLANGED COVER PIECE TO PROVIDE ACCESS TO THE DISC.						
30.22. HIGH DENSITY POLYETHYLENE PIPE (HDPE) FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO AWWA C906 STANDARD, LATEST REVISION. PIPES SHALL BE COLOR-CODED BLUE, MINIMUM 40 FEET STANDARD LENGTHS.						
31. SERVICE CONNECTION:						
31.1. SERVICE SADDLES SHALL BE FUSION BONDED PLASTIC COATED DUCTILE IRON (ASTM A536) WITH STAINLESS STEEL STRAPS, SADDLES SHALL BE DOUBLE STRAP TYPE.						
31.2. SERVICE LINES SHALL BE POLYETHYLENE (PE 3408), 200 P.S.I RATED, DR9. PIPE JOINTS SHALL BE OF THE COMPRESSION TYPE TOTALLY CONFINED GRIP SEAL AND COUPLING NUT.						
31.3. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM B-62 WITH THREADED ENDS, AS MANUFACTURED BY FORD BALLCORP, CATALOG # 1100 OR APPROVED EQUAL.						
31.4. CURB STOPS SHALL BE FORD V63-44W-X" LATEST REVISION OR APPROVED EQUAL.						
31.5. METER STOPS SHALL BE 90 DEGREE LOCKWING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE FV63-777W" LATEST REVISION WITH ASTM B-62, METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "O" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES, AS MANUFACTURED BY FORD OR APPROVED EQUAL.						
32. INSTALLATION:						
32.1. WHERE RESTRAINED PIPE JOINTS ARE REQUIRED DUE TO FITTINGS, APPURTENANCES, ETC., PIPE MATERIAL SHALL BE DIP						
32.2. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATION "GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEM," AND ANSI/AWWA C605-XX LATEST REVISION STANDARD.						
32.3. ALL DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/ C600-XX LATEST REVISION.						
32.4. ALL WATER MAINS SHALL TYPICALLY BE LAID WITH A MINIMUM 36" COVER FOR PVC AND 30" COVER FOR DIP.						
32.5. DETECTOR TAPE SHALL BE LAID 18 INCHES ABOVE ALL WATER AND SEWER LINES. A 14 GAUGE MULTI-STRAND WIRE SHALL BE ATTACHED TO ALL NONCONDUCTIVE WATER MAINS TO FACILITATE LOCATION. AN EXTRA 4 FEET OF WIRE SHALL BE PROVIDED AT ALL VALVES, BLOW-OFFS, HYDRANTS, ETC. THE WIRE SHALL BE TESTED FOR CONTINUITY AT THE PRESSURE TEST.						
32.6. PIPE DEFLECTION SHALL NOT EXCEED 50% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.						
32.7. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED. BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.						
32.8. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER" OR "SEWER", AS APPLICABLE, CAST IN THE COVER. U.S. FOUNDRY OR APPROVED EQUAL.						
33. TESTING:						
33.1. BEFORE ANY PHYSICAL CONNECTIONS AND ACCEPTANCE FOR OPERATION TO THE EXISTING WATER MAINS ARE MADE, THE COMPLETE WATER SYSTEM SHALL BE FLUSHED, PRESSURE TESTED AND DISINFECTED. COPIES OF PASSING BACTERIOLOGICAL RESULTS AND PRESSURE TEST RESULTS MUST BE SUBMITTED TO, AND APPROVED BY, THE ENGINEER, UTILITY OWNER, AND HEALTH DEPARTMENT. HYDROSTATIC TESTING OF NEW MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 PSI FOR TWO HOURS IN ACCORDANCE WITH ANSI/AWWA C800-05 (HYDROSTATIC TEST). THE PRESSURE TEST SHALL NOT VARY MORE THAN 5 PSI DURING THE TEST. THE ALLOWABLE LEAKAGE DURING THE PRESSURE TEST SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA: L = (SD(P)/12)/248,000.						
IN WHICH L EQUALS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR, S EQUALS LENGTH OF PIPE (LINEAR FEET), D EQUALS NOMINAL DIAMETER OF PIPE (INCHES) AND P EQUALS THE AVERAGE TEST PRESSURE (POUNDS PER SQUARE INCH GAUGE). MAXIMUM LENGTH OF TEST PIPE SECTION SHOULD BE 2000 FEET. THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA C651-05 (WATER MAIN BACTERIOLOGICAL TESTS).						
33.2. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE UTILITY OWNER AND THE ENGINEER OF RECORD.						
33.3. FOR WATER DISTRIBUTION PIPES, SAMPLING POINTS SHALL BE PROVIDED BY THE CONTRACTOR AT THE LOCATIONS SHOWN ON THE PLANS.						
33.4. FOR WATER DISTRIBUTION PIPES, DISINFECTION AND BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH ANSI/AWWA C651-14 (WATER MAIN BACTERIOLOGICAL TESTS). MAXIMUM DISTANCE BETWEEN SAMPLING POINTS						
SHALL BE AS FOLLOWS:						
• TRANSMISSION MAINS: EVERY 1200 FEET						
• BRANCH MAINS: EVERY 1000 FEET						
• ISOLATED MAINS < 1000 FEET: 2 SAMPLE POINTS						
• ISOLATED MAINS > 1000 FEET: 3 SAMPLE POINTS						
SECTION 40 - GRAVITY SANITARY SEWER COLLECTION SYSTEM						
40. GENERAL:						
40.1. MANHOLE, VALVE BOX, METER BOX AND OTHER STRUCTURE RIM ELEVATIONS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE ADJUSTED TO CONFORM TO PLAN GRADES PROPOSED IN THESE PLANS. IF NO OTHER INDIVIDUAL COST ITEM IS INCLUDED IN THE CONTRACT SCHEDULE FOR A PARTICULAR STRUCTURE ADJUSTMENT.						
40.2. DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.						
41. MATERIALS:						
NOTE: IF MATERIALS LIST HERE ON ARE IN CONFLICT WITH UTILITY OWNER, MATERIAL OWNER REQUIREMENTS SHALL GOVERN.						
41.1. ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.						
41.2. DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA C151/A21.51-XX LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH WALL THICKNESS CLASS 51 FOR 8" AND ABOVE, CLASS 52 FOR 4" AND 6". UNLESS OTHERWISE DIRECTED BY THE ENGINEER, DUCTILE IRON PIPE SHALL BE EPOXY LINED OR COATED WITH THE MANUFACTURER'S COATING SYSTEM AS APPROVED BY THE ENGINEER OF RECORD AND THE LOCAL MUNICIPALITY OR UTILITY OWNER. IN EITHER CASE, THE ENGINEER'S REVIEW AND APPROVAL IS REQUIRED FOR EITHER ALTERNATIVE PRIOR TO CONSTRUCTION. CEMENT MORTARED LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION.						
41.3. ALL DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C110/A21.10-XX LATEST REVISION. ALL FITTINGS AND ACCESSORIES SHALL BE EPOXY LINED AND AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.						
41.4. MANHOLES SHALL BE PRECAST PER ASTM C 478 AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.						
41.5. MANHOLES ARE TO BE SEALED WITH TYPE II SULPHATE RESISTANT CEMENT OR APPROVED EQUAL. NO MOLDING PLASTER.						
41.6. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11-XX LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION- TYPE.						
41.7. PVC CLEAN-OUTS TO HAVE SCREW TYPE ACCESS PLUG. LONG RADIUS WYE CONNECTIONS AND FITTINGS SHALL BE USED IN ORDER TO ACCESS CLEAN-OUT OPERATIONS.						
41.8. CLEANOUTS SHALL BE INSTALLED AT ALL SEWER SERVICES EXCEEDING 100' IN LENGTH (EVERY 100') WITH A CLEAN OUT AT THE PROPERTY LINE, EASEMENT LINE, OR 5' FROM A BUILDING. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE BUILDING CLEANOUT (5' FROM THE BUILDING) AND ELEVATION OF THE END OF THE SEWER SERVICE WITH THE BUILDING PLUMBING CONTRACTOR. CLEANOUTS SHALL BE THE SAME SIZE AS THE SERVICE LATERAL IN WHICH THEY ARE INSTALLED.						
42. INSTALLATION:						
42.1. PVC SEWER PIPE SHALL BE LAID IN ACCORDANCE WITH ASTM D 2321 AND THE UNI-BELL PLASTIC PIPE ASSOCIATION'S "RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE."						
42.2. DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C-600-XX LATEST REVISION.						
42.3. PIPE TO MANHOLE CONNECTION TO BE FERNCO NEOPRENE BOOT COUPLINGS WITH STAINLESS STEEL ACCESSORIES OR APPROVED EQUAL.						
42.4. MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM SUBGRADE PROVIDING UNIFORM BEARING UNDER THE BASE.						
42.5. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT.						
42.6. TWO COATS OF KOPPERS 300-M, FIRST RED, SECOND ONE BLACK, SHALL BE APPLIED TO THE INSIDE OF ALL MANHOLES AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS (16 MILS PER COAT). COATING AS REQUIRED BY UTILITY OWNER OR ENGINEER SHALL BE APPLIED TO THE OUTSIDE OF THE MANHOLE. THE INTERIOR COATS SHALL BE APPLIED AFTER SEWER LAMPING OF LINES. AFTER THE APPLICATION OF EACH COAT, THE UTILITY OWNER AND ENGINEER SHALL INSPECT THE MANHOLES. THE INSPECTION SHALL BE SCHEDULED A MINIMUM OF 48 HOURS PRIOR TO INSPECTION.						
43. TESTING: TESTING OF GRAVITY SEWER MAINS AND LATERALS SHALL BE IN ACCORDANCE WITH THE UTILITY OWNER'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS LATEST REVISION.						
43.1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.						
43.2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.						
43.3. THE ALLOWABLE LIMITS OF SEWER PIPE LEAKAGE FOR GRAVITY SEWER MAINS SHALL NOT EXCEED 100 GALLONS PER INCH OF INSIDE PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED.						
43.4. THE INSTALLED SEWERS MAY REQUIRE VIDEO INSPECTIONS.						
PROJECT						
GARY MATZNER PARK						
SHEET TITLE						
GI-003						
KEITH PROJECT NUMBER 13861.00						
PROJECT LEAD & CIVIL ENGINEERING:  301 EAST ATLANTIC BLVD. POMPANO BEACH, FL 33060 PH: (954) 788-3400 Florida Engineering Business License: CA7928 Florida Surveyor and Mapper Business License: L18680 Florida Landscape Architecture Business License: LC260004057						
LANDSCAPE ARCHITECT:  801 INTERNATIONAL PARKWAY LAKE MARY, FL 32746 407.871.9807 MKSKSTUDIOS.COM						
ARCHITECT:  WANNEMACHER JENSEN ARCHITECTS 815 NORTHWEST 57 AVE. SUITE 219 MIAMI, FLORIDA 33126 727-822-5566 WJARC.COM AA0002277						
MECHANICAL, PLUMBING, & ELECTRICAL ENGINEERING:  5301 WATERFORD DISTRICT DR. SUITE 750 954-421-1944 SGMENGINEERING.COM CA-00062208						
REVISONS						
NO.	DESCRIPTION	DATE				
	ISSUED FOR BUILDING PERMIT	11/21/2024				
	REVISED FOR BUILDING PERMIT	01/10/2025				
		</				



- GENERAL NOTES:**
1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN FLORIDA (HEREAFTER REFERRED TO AS FL GUIDELINES).
 2. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION PERIOD. AFTER EACH RAINFALL, A VISUAL INSPECTION SHALL BE MADE OF ALL INSTALLED EROSION CONTROL MEASURES AND REPAIRS SHALL BE CONDUCTED TO ENSURE THEIR CONTINUING FUNCTION AS DESIGNED.
 3. ALL EXISTING/NEW CATCH BASIN, INLETS, STORM SEWER MANHOLES STRUCTURES WITHIN THE WORK AREAS, ETC. SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS FROM SEDIMENT RUNOFF AND DEBRIS BY PLACING A FILTER FABRIC MATERIAL IN THE FRAME AND GRATE/MANHOLE COVER. PREVENTIVE METHODS MUST BE UTILIZED AROUND THESE STRUCTURES (DURING CONSTRUCTION OPERATIONS) BY GRADING TO DRAIN AWAY FROM STRUCTURES AND ANY OTHER METHODS APPROVED BY THE AGENCY HAVING JURISDICTION OR DESIGN ENGINEER OF RECORD.
 4. THE CONTRACTOR SHALL INSTALL A SOIL TRACKING PREVENTION DEVICE AS PER THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL. THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS. STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.
 5. ALL AREAS OF DISTURBANCE THAT ARE NOT WITHIN BUILDING OR PAVEMENT LIMITS SHALL BE SODDED. REFER TO LANDSCAPE PLANS FOR SOD SPECIFICATION AND REQUIREMENTS.
 6. REMOVE ALL EROSION CONTROL IMPROVEMENTS AFTER ALL DISTURBED AREAS ARE STABILIZED WITH THE FINAL GROUND COVER.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND FAMILIARIZING THEMSELVES WITH ALL THE PERMITS PREVIOUSLY ACQUIRED FOR THIS PROJECT. THE CONDITIONS OUTLINED IN THE PERMITS ARE IN FORCE AND FULL EFFECT AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL WORK ASSOCIATED WITH THIS PROJECT IS IN COMPLIANCE WITH ALL OF THE REQUIREMENTS OF THESE PERMITS.
 8. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING A VALID NPDES PERMIT. UNLESS SUCH PERMIT IS DETERMINED TO BE NON-APPLICABLE BY REGULATORY AGENCY HAVING PROPER JURISDICTION REGARDING THIS MATTER.

PROJECT LEAD & CIVIL ENGINEERING:

KEITH

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FOLLOWS BEACH, FL 33060
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Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

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SGMENGINEERING.COM CA-00006208

REVISIONS		
NO.	DESCRIPTION	DATE
1	ISSUED FOR BUILDING PERMIT	11/21/2024
2	REVISED FOR BUILDING PERMIT	01/10/2025

ISSUE DATE: 03/02/2025

DESIGNED BY: BB, NW

DRAWN BY: CD, BB

CHECKED BY: TD

This item has been digitally signed and sealed by **Thomas F. Donahue, P.E.** on the date adjacent to the seal.

Signature must be verified on any electronic copies.

THOMAS F. DONAHUE, P.E.
L. LICENSE No. 60529
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2026/03/04 09:27:26 -0500

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT

VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT

GARY MATZNER PARK

SHEET TITLE

EROSION CONTROL PLAN

SHEET NUMBER

CG-101

KEITH PROJECT NUMBER

13861.00

Plotted by: halba On: 3/2/2025 3:41 PM

Drawing name: K:\13861.00 - Gary Matzner Park Design - Village of Pinecrest\Engineering\Cadd\13861-00-CG-101.dwg

STATUS: CONSTRUCTION DOCUMENTS

BUILDING DEMOLITION NOTES

- CONTRACTOR TO DEMOLISH EVERYTHING WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED
- EXISTING MONITORING WELLS TO REMAIN. CONTRACTOR TO COORDINATE WITH ENVIRONMENTAL ENGINEER PRIOR TO DEMOLITION.
- BUILDING DEMOLITION IS SUBJECT TO FEDERAL, STATE AND COUNTY RULES RELATING TO THE DEMOLITION AND THE HANDLING OF ASBESTOS CONTAINING MATERIAL. THE COUNTY STATEMENT OF RESPONSIBILITIES REGARDING ASBESTOS MUST BE FILLED OUT AND COMPLIED WITH PRIOR TO ANY BUILDING DEMOLITION. THE CONTRACTOR MUST OBTAIN / PRODUCE THE FOLLOWING PRIOR TO ANY BUILDING DEMOLITION:
 - PEST CONTROL INSPECTION REPORT INDICATING THAT PROPERTY IS FREE OF RODENTS
 - GAS DISCONNECT LETTER FROM GAS SUPPLIER
 - FPL DISCONNECT LETTER FROM F&L
 - WATER METER REMOVAL LETTER FROM UTILITY PROVIDER
 - FIRE SERVICE WATER METER REMOVAL LETTER FROM UTILITY PROVIDER
 - SEWER CAP OR SEPTIC TANK ABANDONMENT PERMIT REQUIRED WITH A PASSED BUILDING DEPARTMENT INSPECTION PERMIT
 - COPY OF EPA LICENSE AND/OR LETTER FROM LICENSED CONTRACTOR RECOVERING REFRIGERANT FROM A/C UNITS
 - NOTARIZED LETTER FROM DEMOLITION CONTRACTOR STATING FROM WHERE WATER WILL BE OBTAINED FOR DUST CONTROL
 - DEMOLITION CONSTRUCTION DEBRIS MITIGATION PLAN SIGNED AND DATED BY OWNER AND CONTRACTOR
 - BUILDING DEMOLITION DAILY WORK SCHEDULE - LIST OF ALL EQUIPMENT USED FOR DEMOLITION OF BUILDINGS MORE THAN ONE STORY
 - NOTICE OF COMMENCEMENT
 - ALL PORTIONS OF A PARCEL OF LAND SHALL BE PLANTED WITH GROUND COVER OR LAWN OR UTILIZE OTHER APPROVED TEMPORARY EROSION CONTROL MEASURES, IN ORDER TO PREVENT DUST OR SOIL EROSION.

TREE PROTECTION PLAN:

- FOR EXISTING TREES/PALMS ON SITE, INDICATE THE LOCATION OF TREES/PALMS ON THE SURVEY AND PROVIDE A CORRESPONDING LIST OF TREE NUMBER, BOTANICAL NAME, COMMON NAME, OVERALL HEIGHT, TRUNK DBH FOR TREES, CLEAR TRUNK FOR PALMS, CONDITION %, AND INDICATE THAT ALL EXISTING TREES/PALMS ARE TO BE PROTECTED AND WILL REMAIN ON SITE.
- PROVIDE TREE PROTECTION BARRICADE DETAIL FOR EXISTING TREES ON SITE TO REMAIN. THIS BARRICADE MUST BE INSTALLED PRIOR TO THE BEGINNING OF PROPOSED WORK.
- FOR TREES THAT MUST BE REMOVED TO ACCESS DEMO AREAS, OBTAIN PERMIT FOR TREE REMOVAL.
- KENDALL DRIVE IMPROVEMENTS SHOULD BE INSTALLED (BY OTHERS) PRIOR TO GARY MATZNER PARK WALKWAY ACCESS AT INTERSECTION.

NOTES:

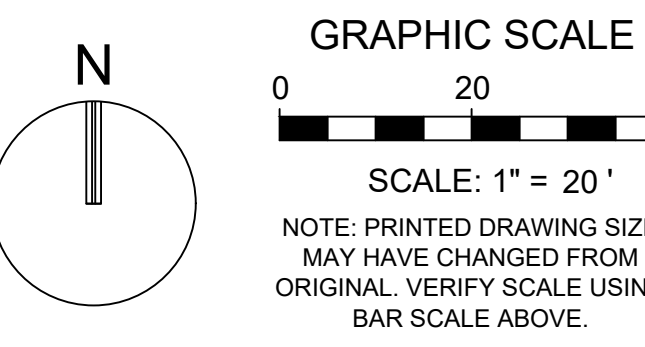
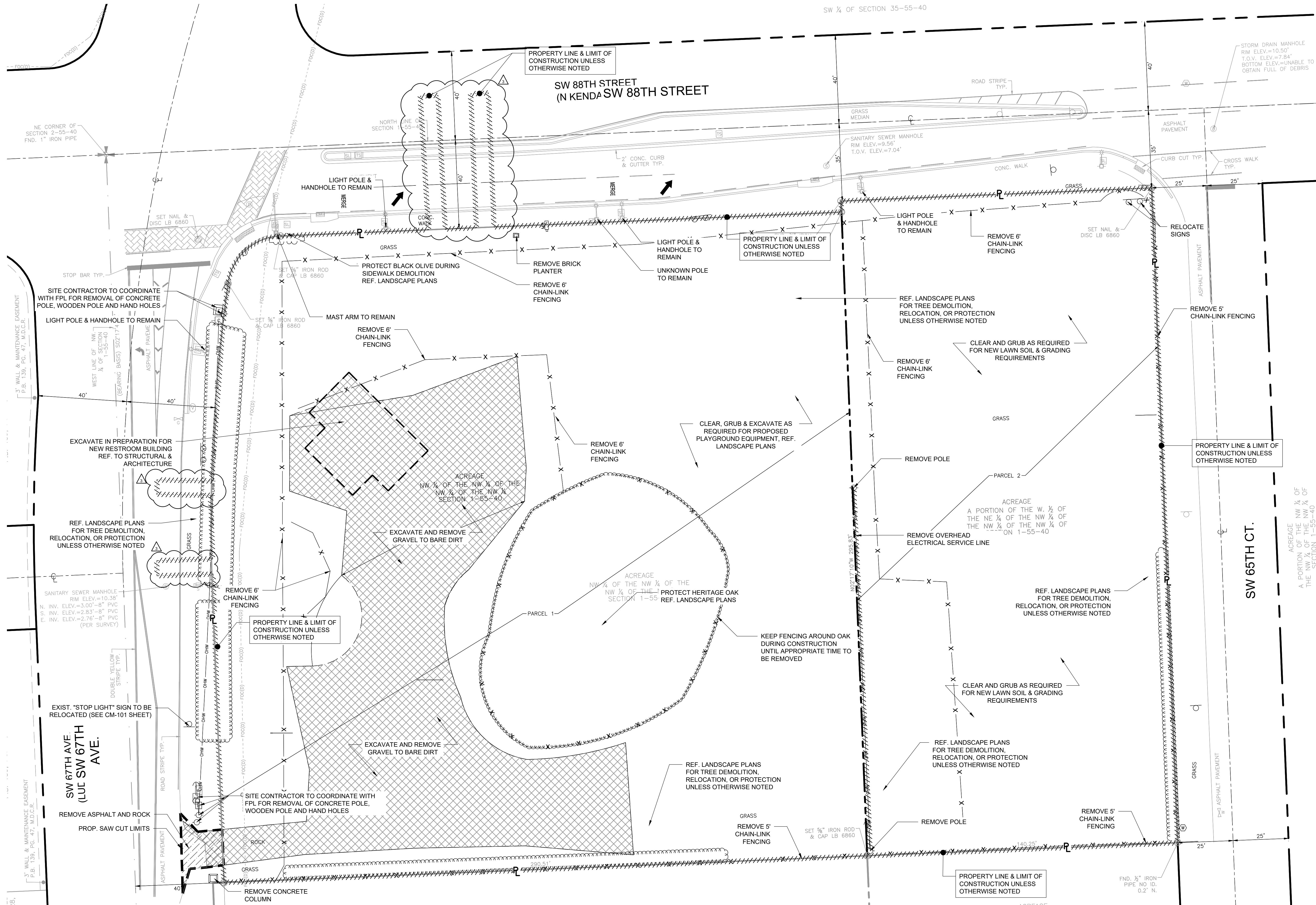
- KENDALL DRIVE IMPROVEMENTS (BY OTHERS) ON SOUTH SIDE OF KENDALL DRIVE BETWEEN LUDLAM ROAD AND SW 65TH CT SHALL BE INSTALLED PRIOR TO GARY MATZNER PARK SIDEWALK ENTRANCE ACCESS.

NOTE:

FUTURE IMPROVEMENTS AT SE CORNER OF N. KENDALL DRIVE AND LUDLAM ROAD INTERSECTION AND AT SW CORNER OF N. KENDALL DRIVE AND SW 65TH CT INTERSECTION (BY OTHERS) ARE PART OF KENDALL DR. MODIFICATIONS/ IMPROVEMENTS PROJECT

NOTES:

- SEE TREE DISPOSITION PLAN FOR TREE REMOVAL/ RELOCATION



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REVISIONS		
NO.	DESCRIPTION	DATE
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Δ	REVISION 3	03/03/2026

ISSUE DATE: 03/02/2025
DESIGNED BY: BB, NW
DRAWN BY: CD, BB
CHECKED BY: TD

This item has been digitally signed and sealed by Thomas F. Donahue, P.E. on the date adjacent to the seal.
Signature must be verified on any electronic copies.
2026.03.04 08:28:03-0500'

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT
VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

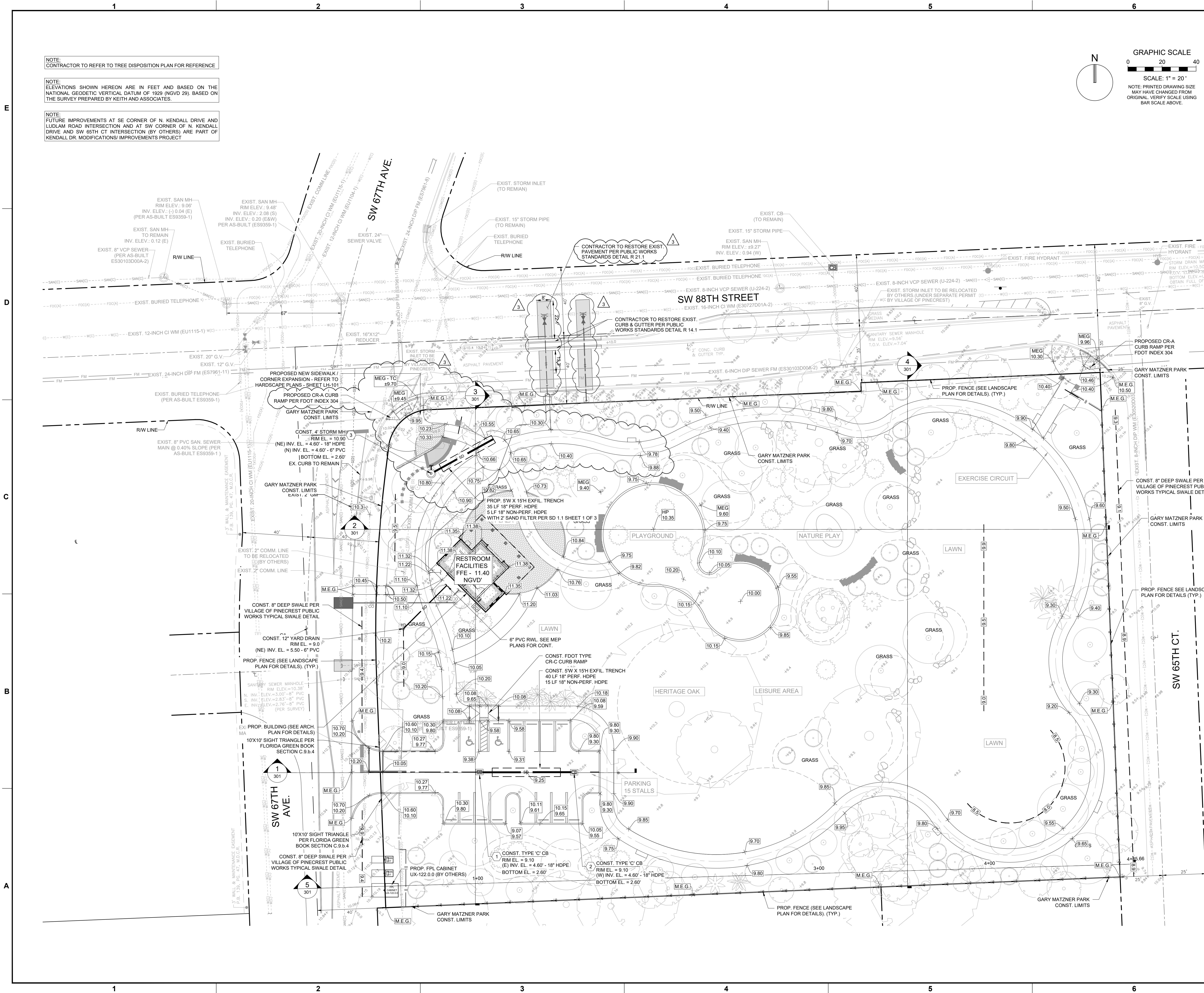
PROJECT
GARY MATZNER PARK

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
CD-101

KEITH PROJECT NUMBER
13861.00

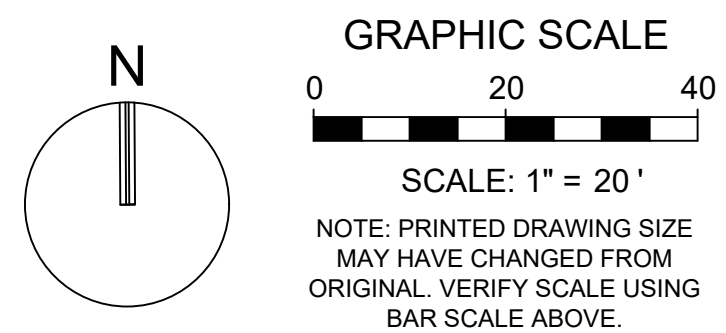
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NOTE:
CONTRACTOR TO REFER TO TREE DISPOSITION PLAN FOR REFERENCE

NOTE:
ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). BASED ON THE SURVEY PREPARED BY KEITH AND ASSOCIATES.

NOTE:
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3	REV. PER WASH & DERM COORD.	06/20/2025
4	REVISION 1	11/26/2025
5	REVISION 2 - RFI # 25	01/08/2026
6	REVISION 3 - PW PERMIT	03/03/2026

ISSUE DATE: 03/02/2025
DESIGNED BY: BB, NW
DRAWN BY: CD, BD
CHECKED BY: TD

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DIGITALLY SIGNED AND
SEALED BY THOMAS F. DONAHUE, P.E.
ON THE DATE
ADJACENT TO THE
SEAL.

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

STATE OF FLORIDA
PROFESSIONAL ENGINEER

2025.03.04 08:28:20-0500

CLIENT
**VILLAGE OF
PINECREST**
PINECREST PARKS & RECREATION



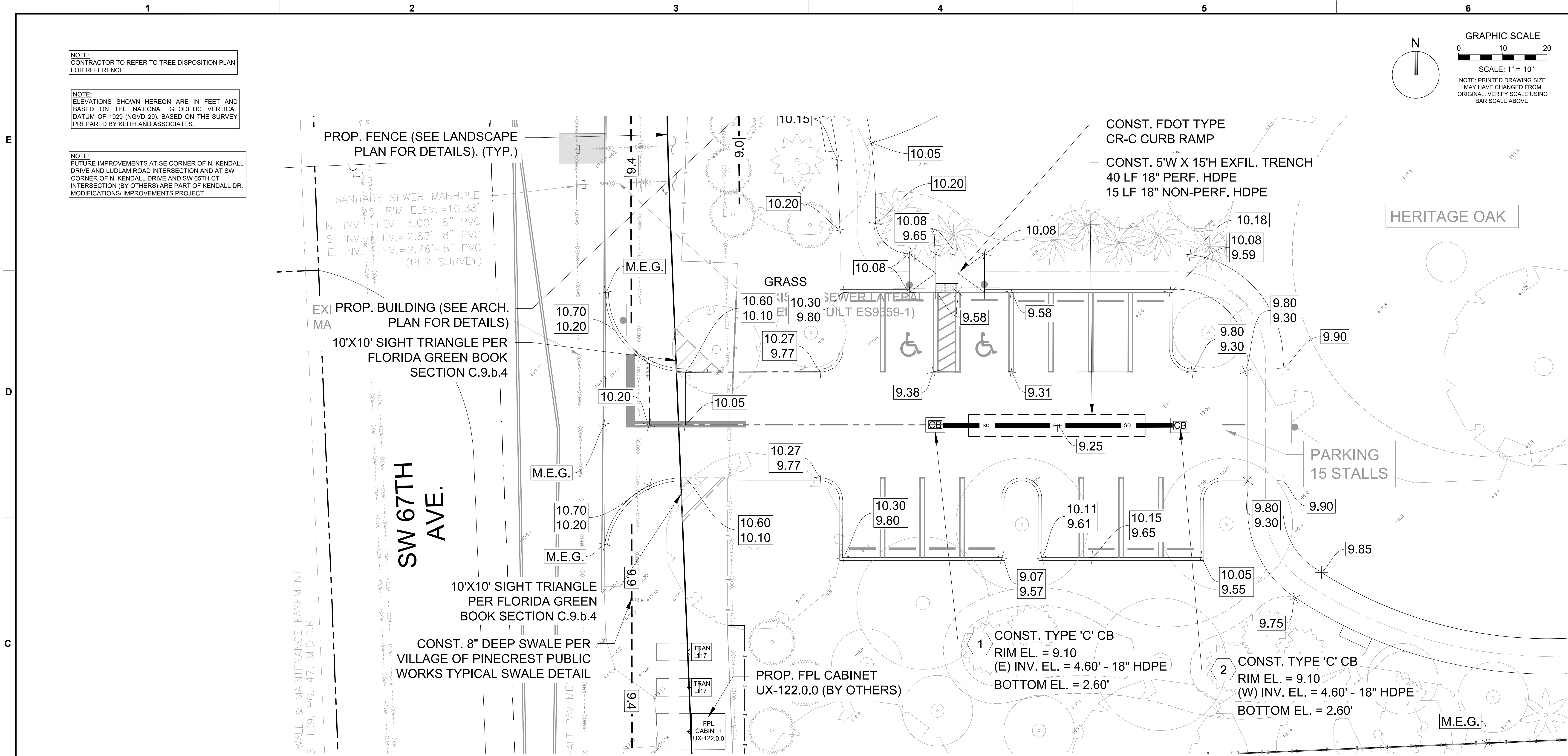
PROJECT
**GARY MATZNER
PARK**

SHEET TITLE
**PAVING, GRADING, AND
DRAINAGE PLAN**

SHEET
NUMBER
CP-101

KEITH PROJECT
NUMBER
13861.00

STATUS: CONSTRUCTION DOCUMENTS



NOTE:
CONTRACTOR TO REFER TO TREE DISPOSITION PLAN
FOR REFERENCE

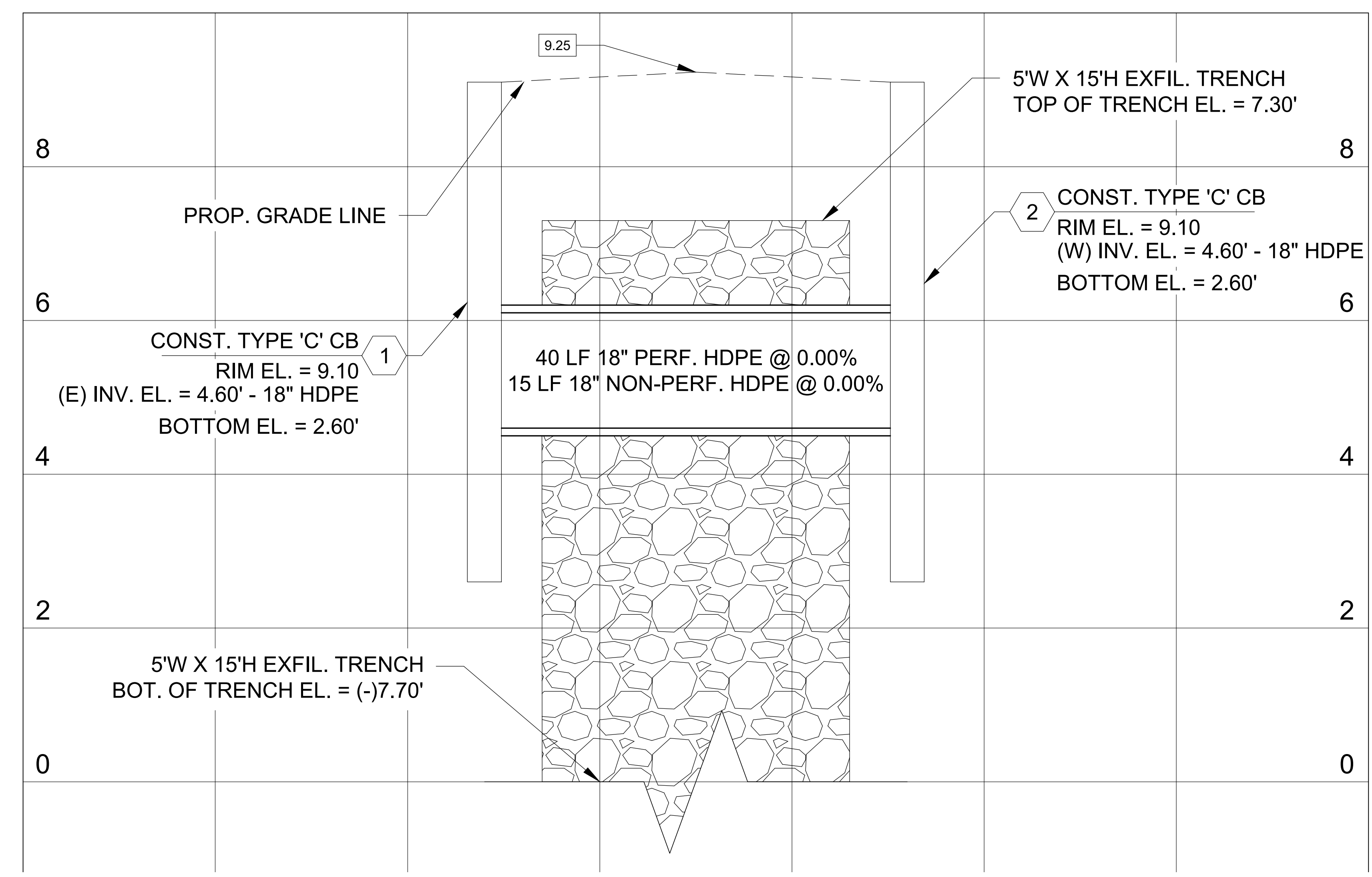
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BASED ON THE NATIONAL GEODETIC VERTICAL
DATUM OF 1929 (NGVD 29), BASED ON THE SURVEY
PREPARED BY KEITH AND ASSOCIATES.

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INTERSECTION (BY OTHERS) ARE PART OF KENDALL DR.
MODIFICATIONS/ IMPROVEMENTS PROJECT

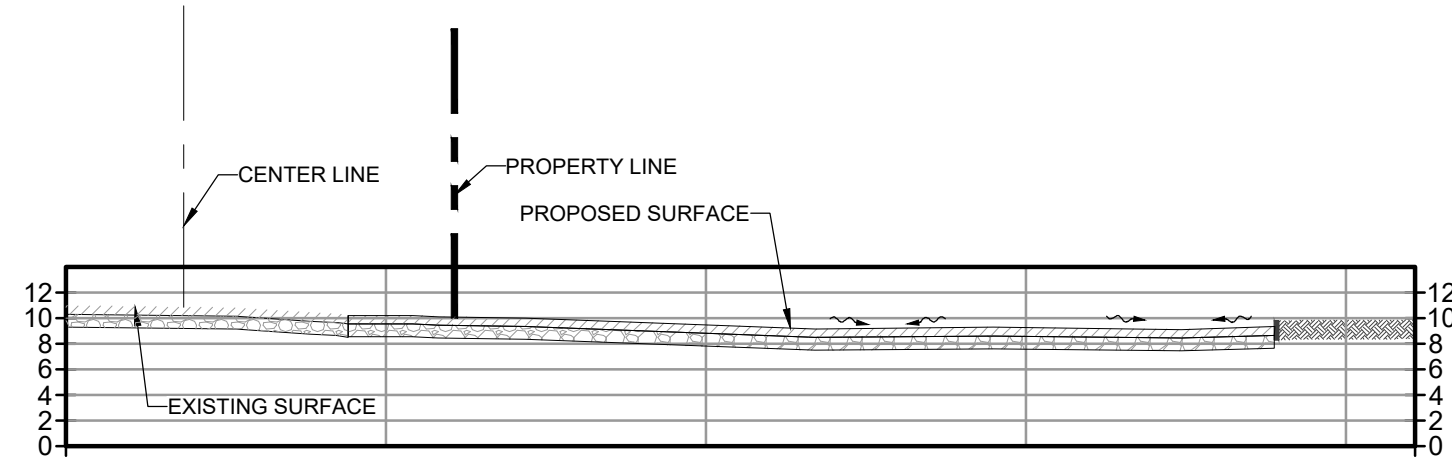
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3. 139, PG. 47, M.D.C.R.

SW 67TH
AVE.

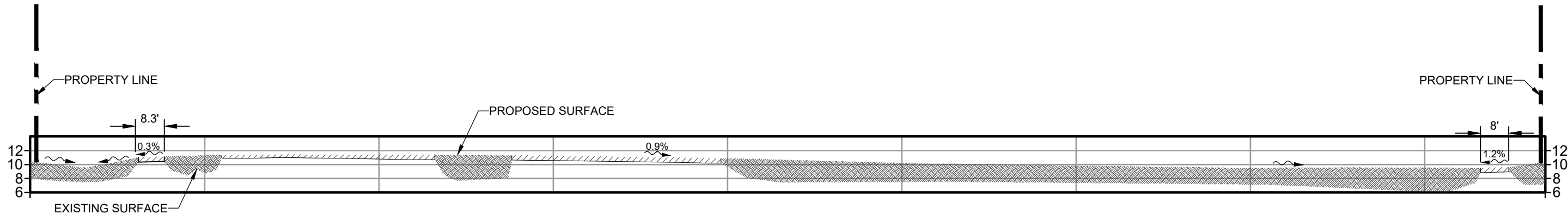
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VERTICAL SCALE 1" = 2'



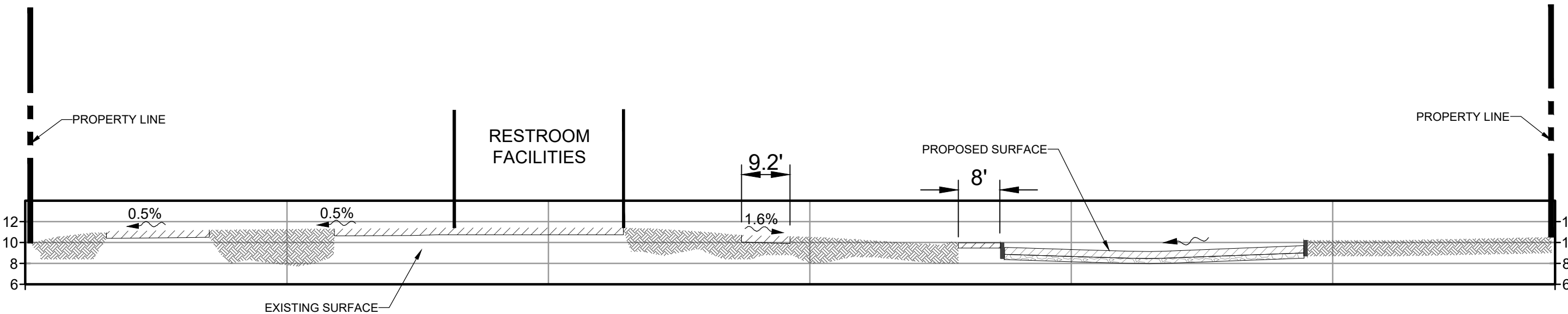
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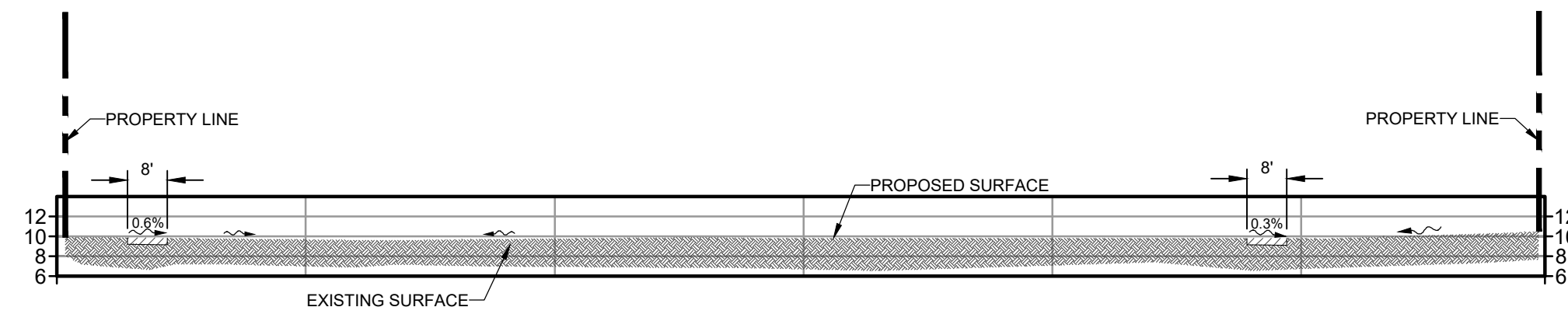
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VERTICAL SCALE: 1"=15'



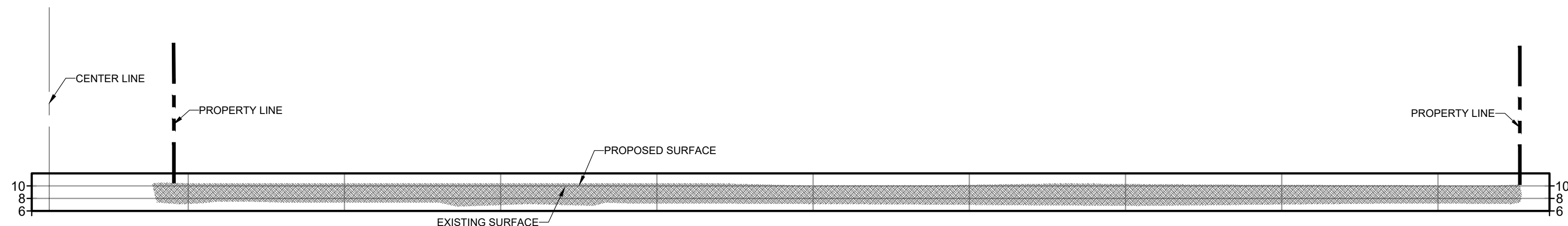
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VERTICAL SCALE: 1"=15'



SECTION 3
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=15'



SECTION 4
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=15'



SECTION 5
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=15'

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Florida Landscape Architecture Business License: LC26000457

LANDSCAPE ARCHITECT:



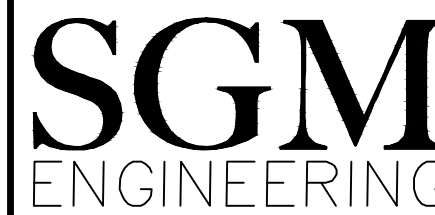
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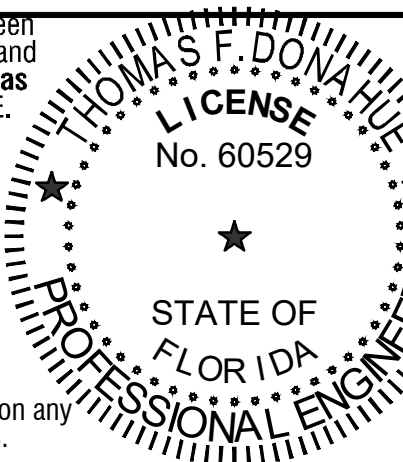
ISSUE DATE: 03/02/2025

DESIGNED BY: BB, NW

DRAWN BY: CD, BB

CHECKED BY: TD

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on the date
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Signature
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THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT

VILLAGE OF
PINECREST
PINECREST PARKS & RECREATION



PROJECT

GARY MATZNER
PARK

SHEET TITLE

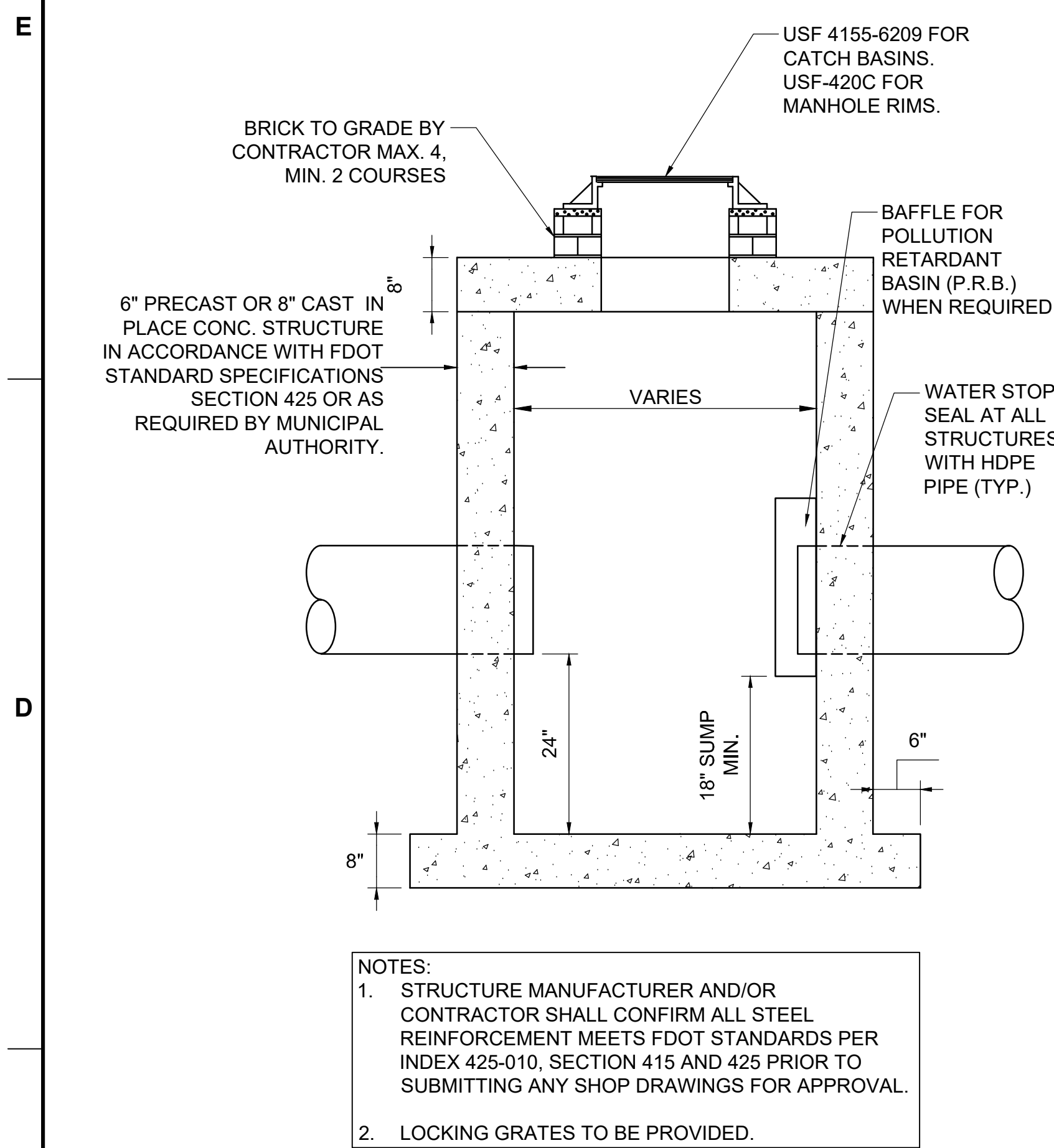
PAVING AND GRADING
SECTIONS

SHEET

NUMBER CP-301

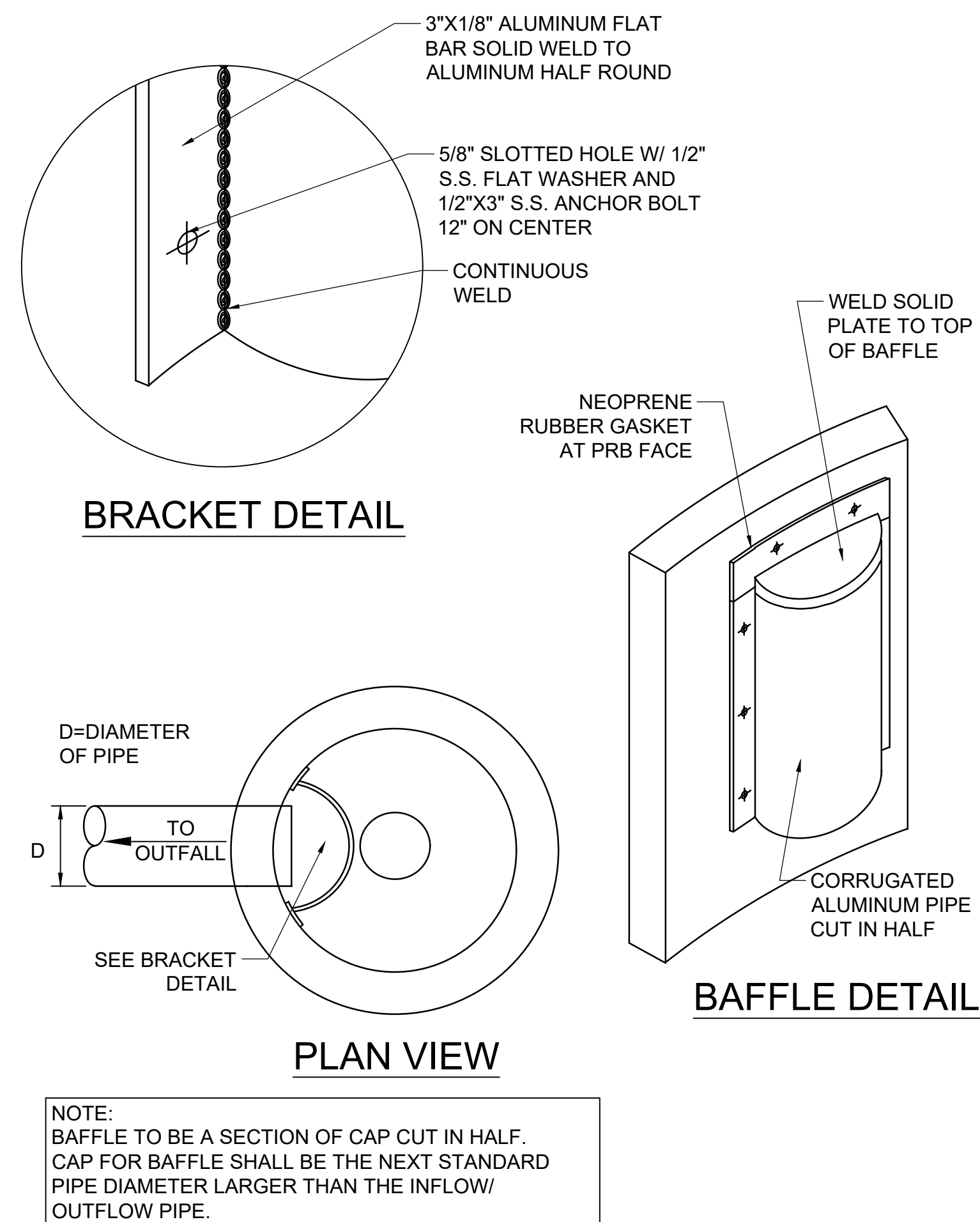
KEITH PROJECT

NUMBER 13861.00



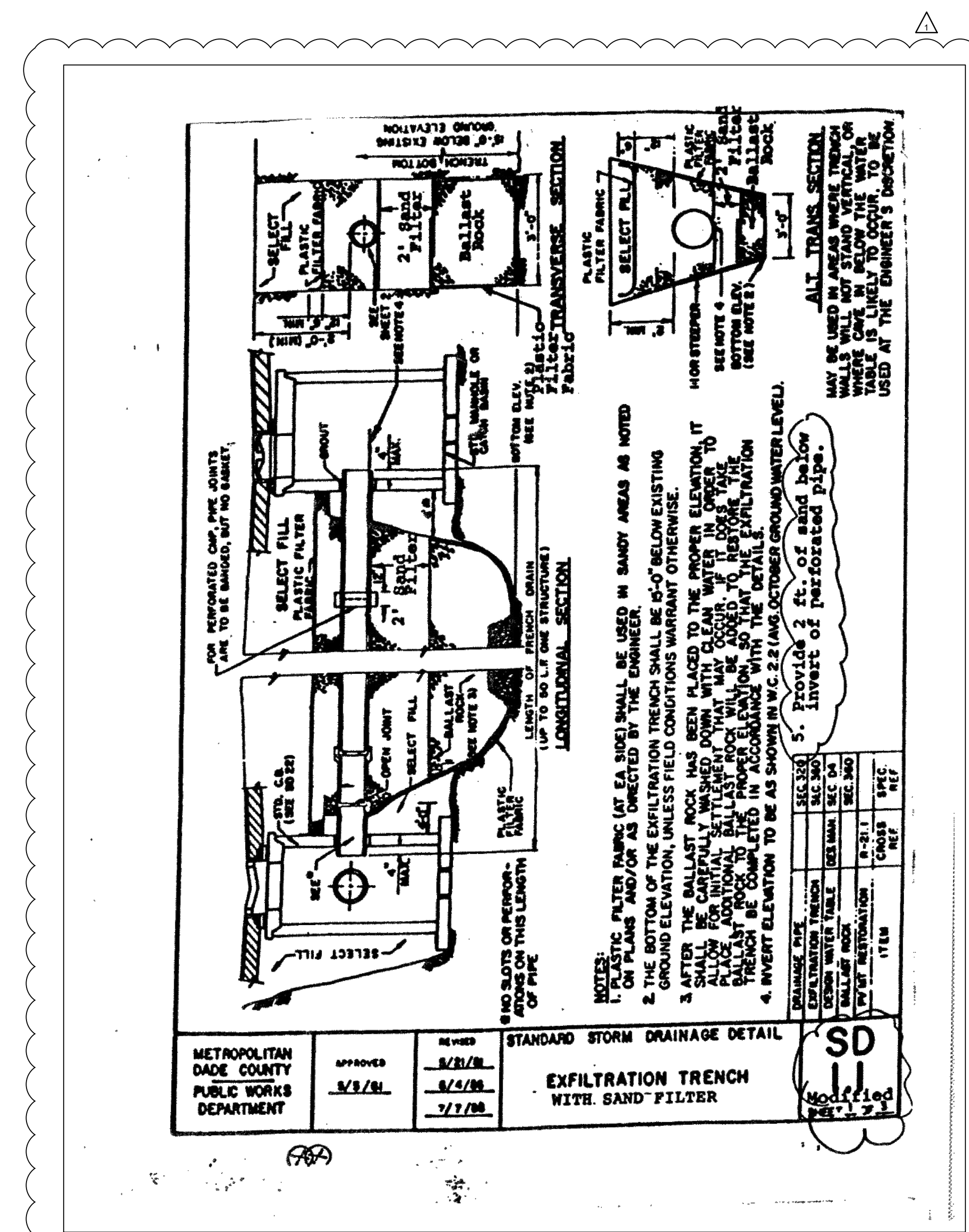
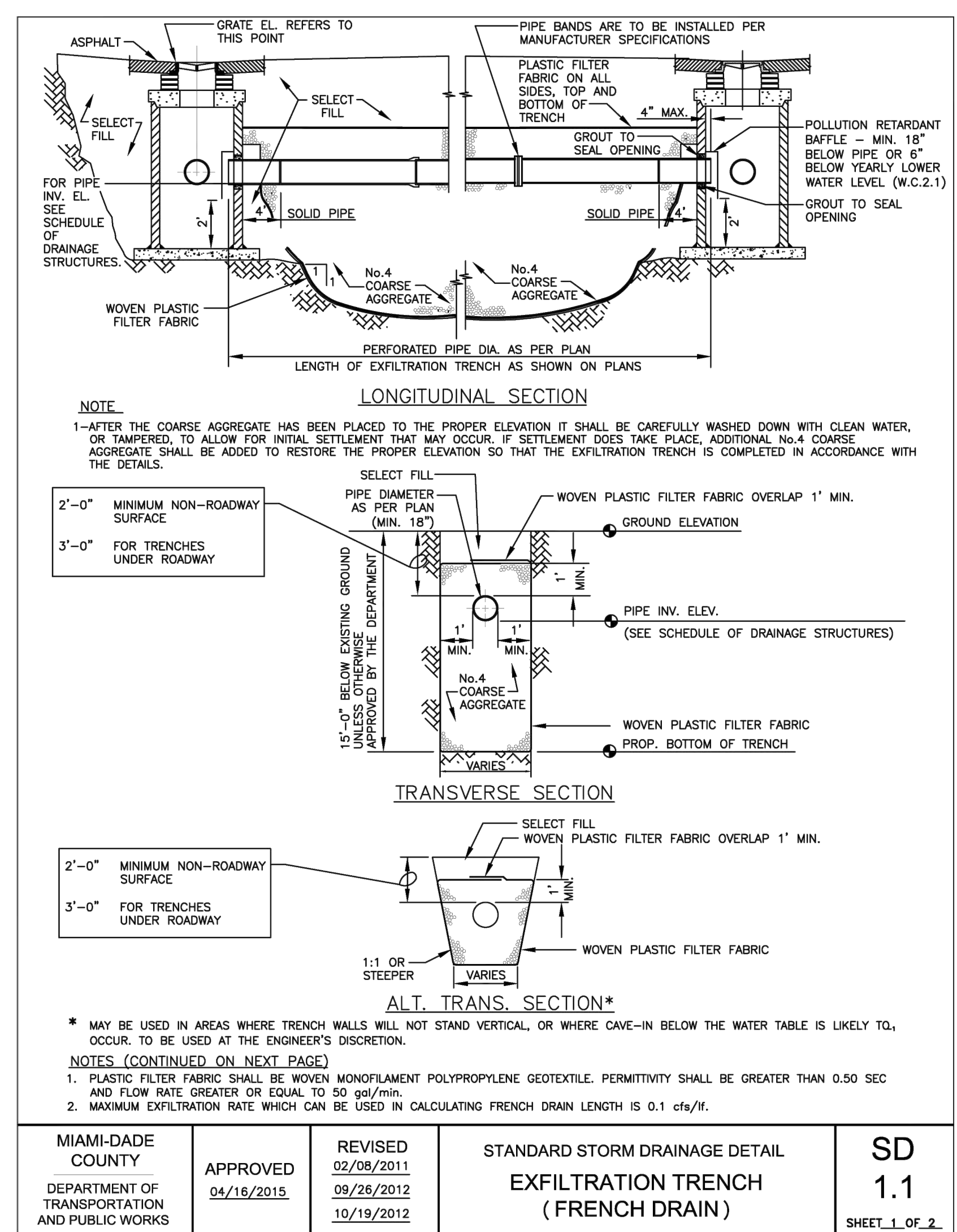
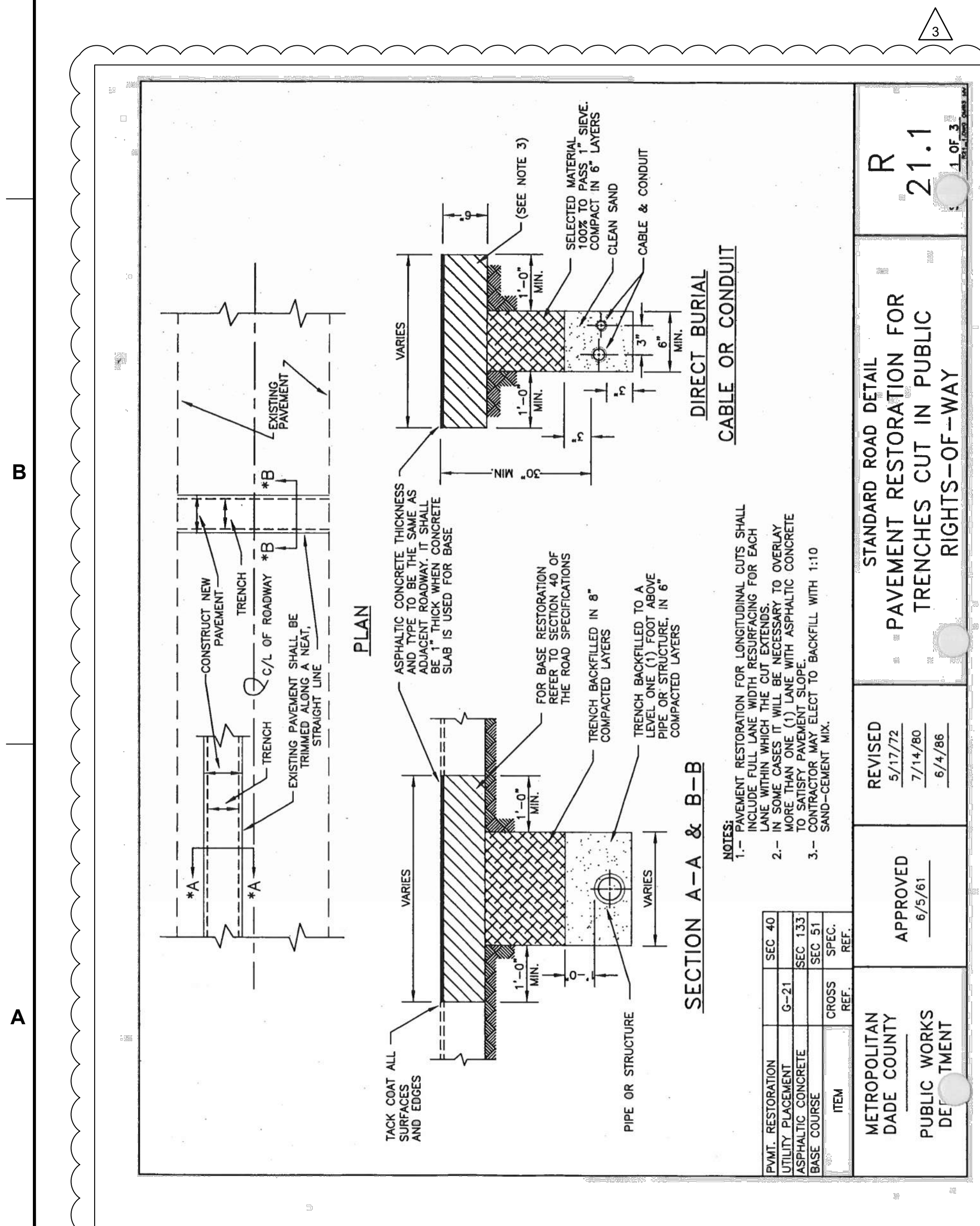
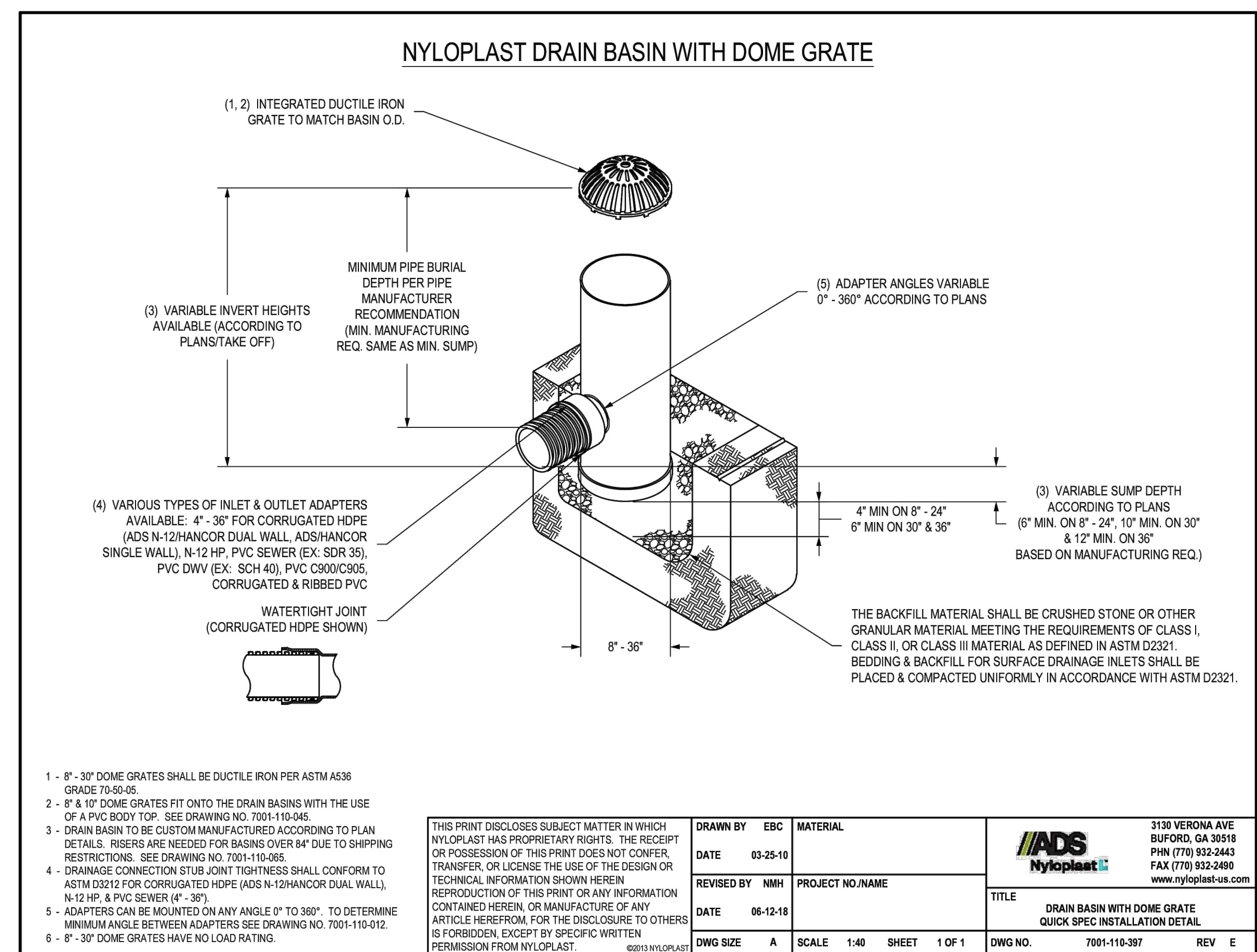
CATCH BASIN / DRAINAGE MANHOLE DETAIL

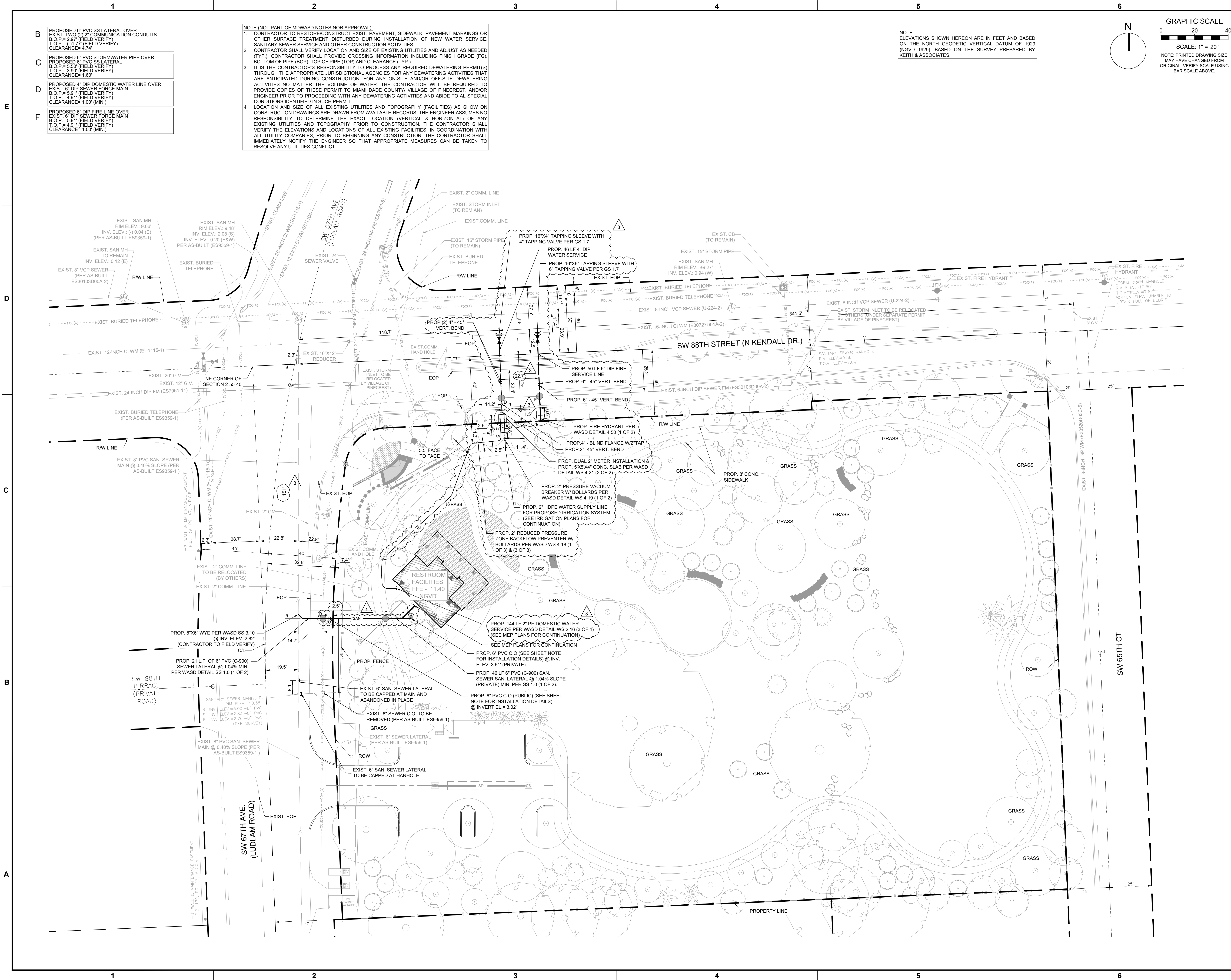
NOT TO SCALE



POLLUTION RETARDANT BAFFLE DETAIL

NOT TO SCALE

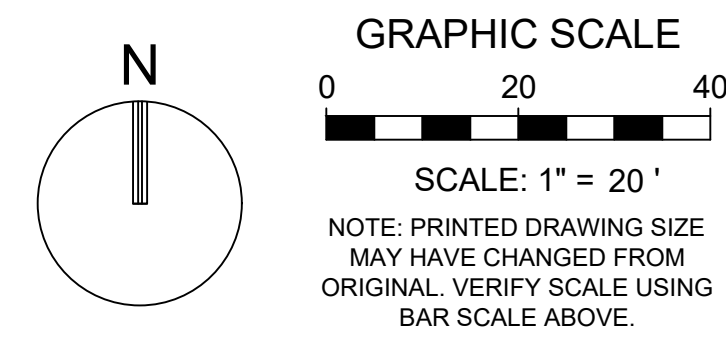




NOTE (NOT PART OF MDWASD NOTES NOR APPROVAL):

- CONTRACTOR TO RESTORE/CONSTRUCT EXIST. PAVEMENT, SIDEWALK, PAVEMENT MARKINGS OR OTHER SURFACE TREATMENT DISTURBED DURING INSTALLATION OF NEW WATER SERVICE, SANITARY SEWER SERVICE AND OTHER CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL VERIFY LOCATION AND SIZE OF EXISTING UTILITIES AND ADJUST AS NEEDED (TYP.). CONTRACTOR SHALL PROVIDE CROSSING INFORMATION INCLUDING FINISH GRADE (FG), BOTTOM OF PIPE (BOP), TOP OF PIPE (TOP) AND CLEARANCE (TYP.).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS ANY REQUIRED DEWATERING PERMIT(S) THROUGH THE APPROPRIATE JURISDICTIONAL AGENCIES FOR ANY DEWATERING ACTIVITIES THAT ARE ANTICIPATED DURING CONSTRUCTION. FOR ANY ON-SITE AND/OR OFF-SITE DEWATERING ACTIVITIES NO MATTER THE VOLUME OF WATER, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE COPIES OF THESE PERMIT TO MIAMI DADE COUNTY, VILLAGE OF PINECREST, AND/OR ENGINEER PRIOR TO PROCEEDING WITH ANY DEWATERING ACTIVITIES AND ABIDE TO ALL SPECIAL CONDITIONS IDENTIFIED IN SUCH PERMIT.
- LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY (FACILITIES) AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY TO DETERMINE THE EXACT LOCATION (VERTICAL & HORIZONTAL) OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AND LOCATIONS OF ALL EXISTING FACILITIES, IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE ANY UTILITIES CONFLICT.

NOTE:
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- B** PROPOSED 6" PVC SS LATERAL OVER EXIST. 2" (2) 2" COMMUNICATION CONDUITS
B.O.P. = 2.97' (FIELD VERIFY)
T.O.P. = 0.17' (FIELD VERIFY)
CLEARANCE = 4.74'
- C** PROPOSED 6" PVC STORMWATER PIPE OVER EXIST. 6" PVC SS LATERAL
B.O.P. = 5.50' (FIELD VERIFY)
T.O.P. = 3.90' (FIELD VERIFY)
CLEARANCE = 1.60'
- D** PROPOSED 6" DIP DOMESTIC WATER LINE OVER EXIST. 6" DIP SEWER FORCE MAIN
B.O.P. = 5.91' (FIELD VERIFY)
T.O.P. = 4.91' (FIELD VERIFY)
CLEARANCE = 1.00' (MIN.)
- F** PROPOSED 6" DIP FIRE LINE OVER EXIST. 6" DIP SEWER FORCE MAIN
B.O.P. = 5.91' (FIELD VERIFY)
T.O.P. = 4.91' (FIELD VERIFY)
CLEARANCE = 1.00' (MIN.)

PROJECT LEAD & CIVIL ENGINEERING:

KEITH

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VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT

GARY MATZNER PARK

SHEET TITLE

WATER AND SEWER PLAN

SHEET NUMBER

CU-101

KEITH PROJECT NUMBER

13861.00

STATUS: CONSTRUCTION DOCUMENTS

Printed by: cphillips On 3/2/2026 at 1:14 PM

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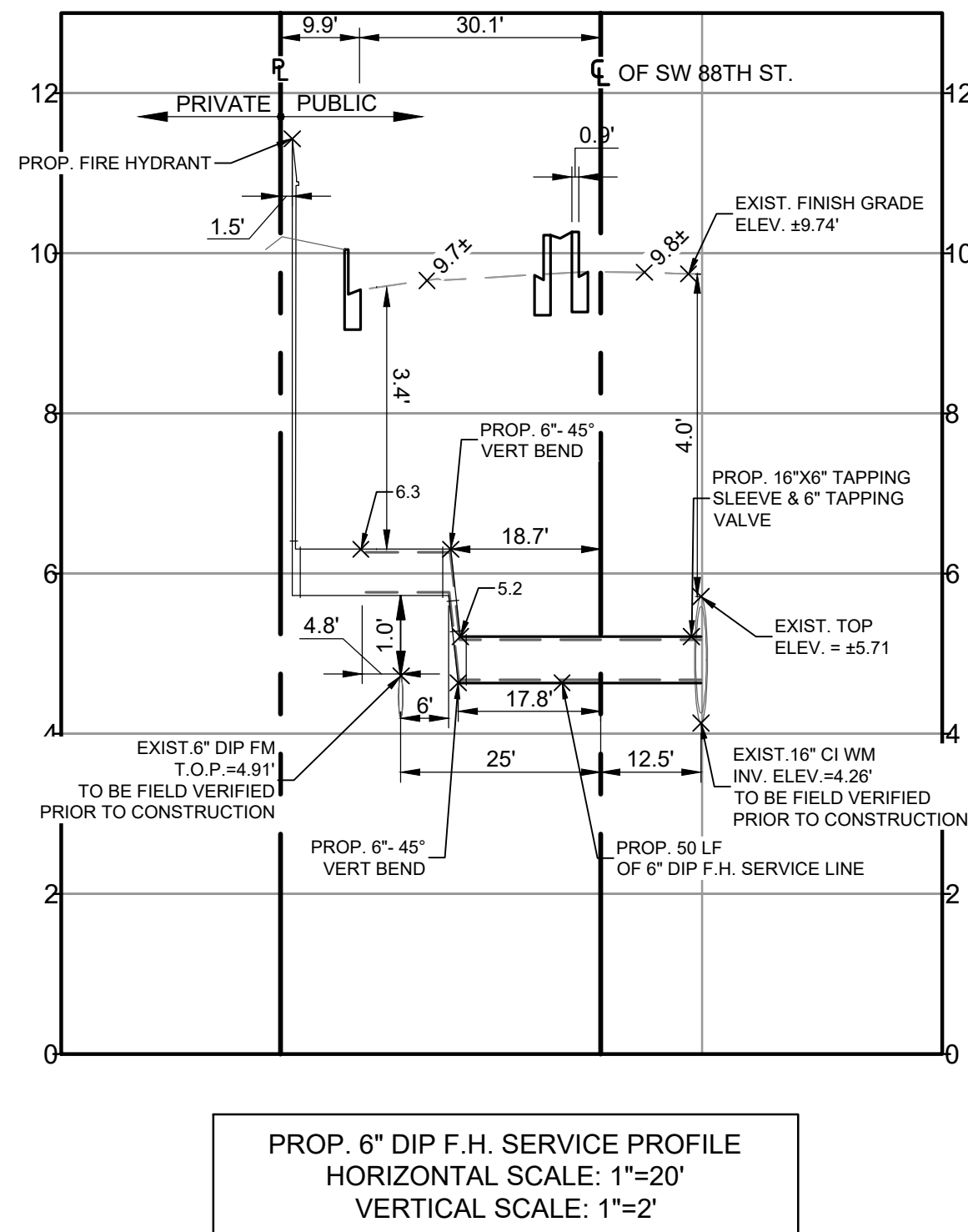
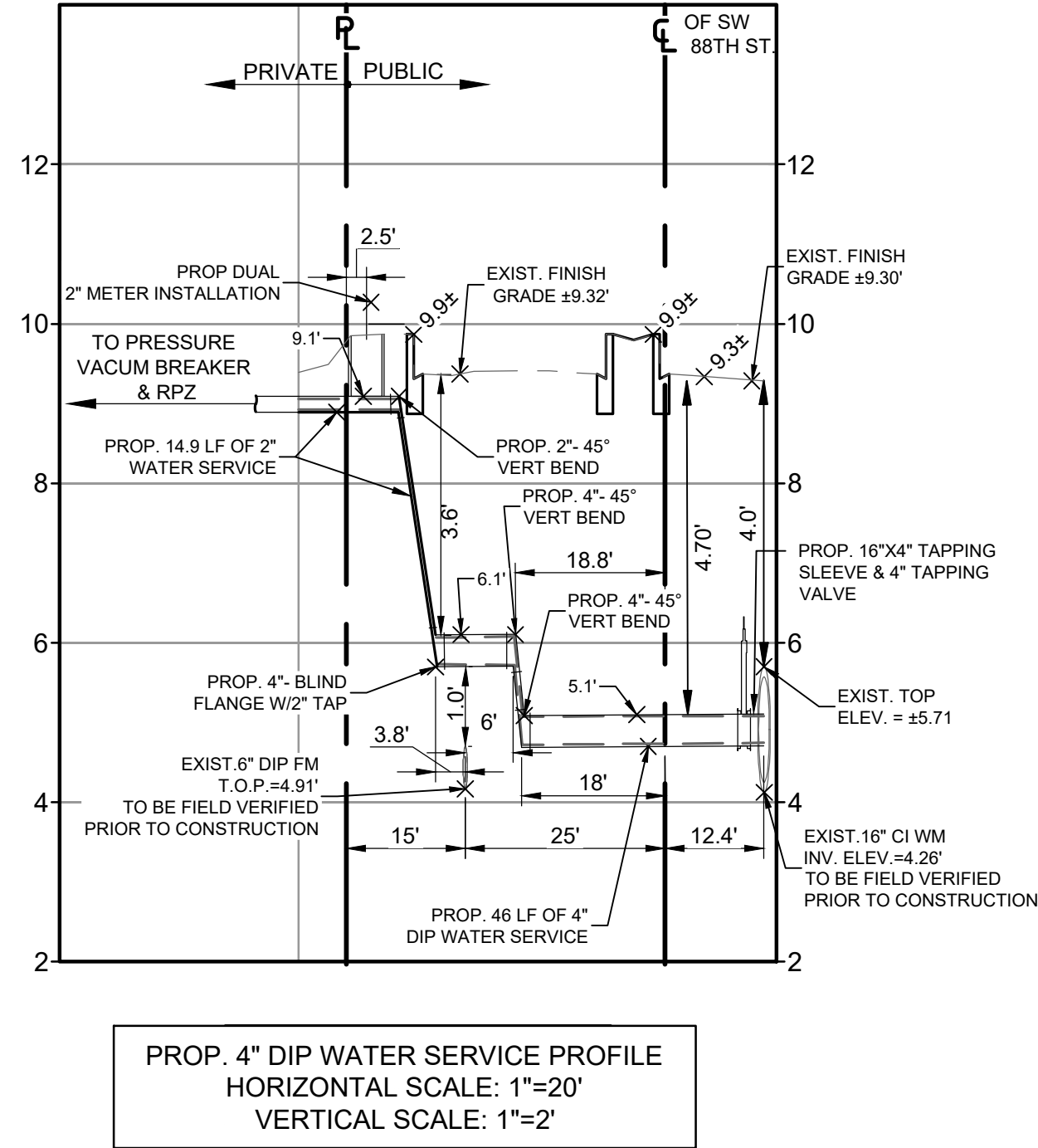
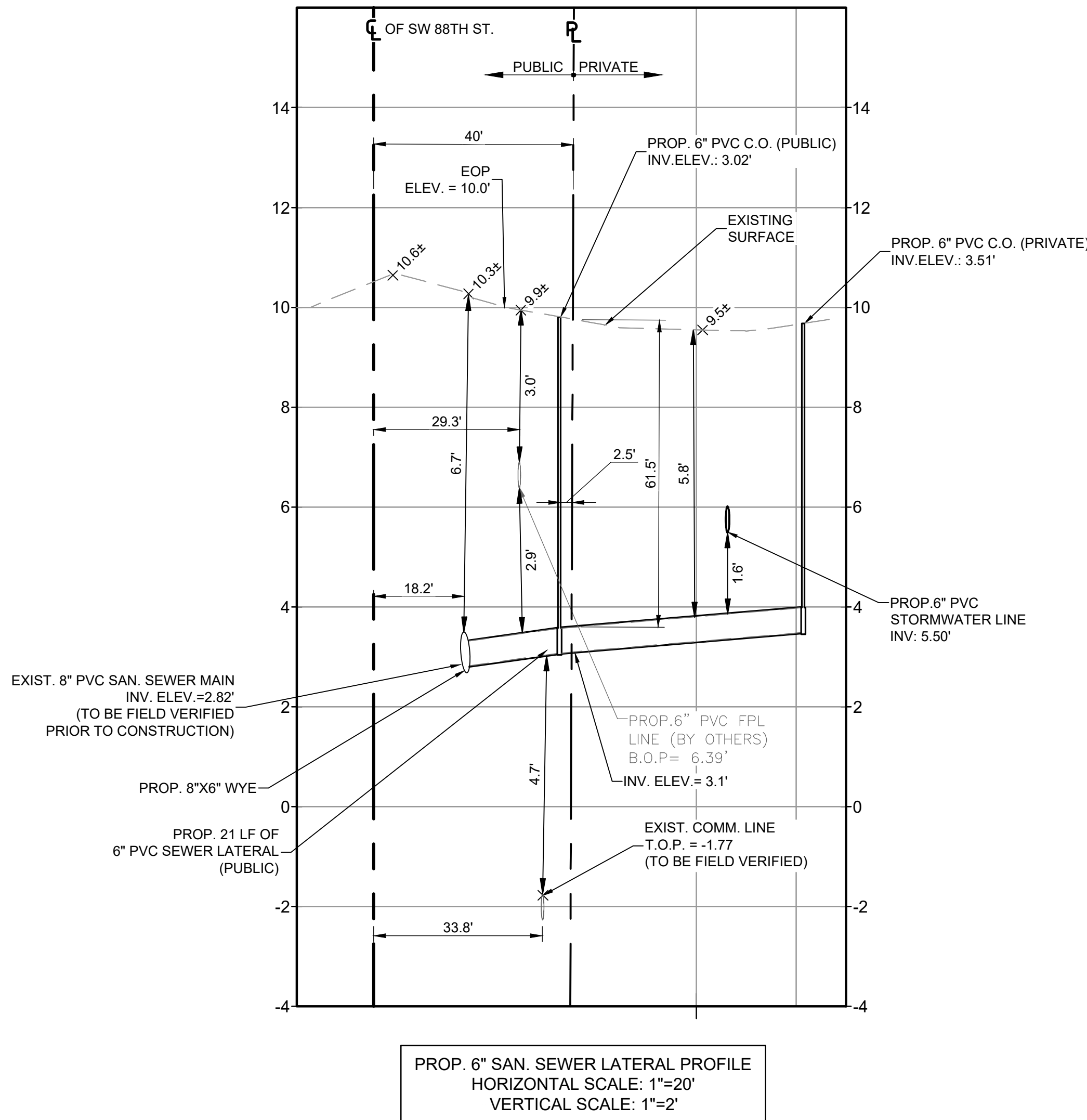
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MDWASD AGREEMENT ID No.: 32990



PROJECT LEAD
& CIVIL ENGINEERING:



301 EAST ATLANTIC BLVD.
POMPAHO BEACH, FL 33060
PH: (954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

LANDSCAPE ARCHITECT:



801 INTERNATIONAL PARKWAY
LAKE MARY, FL 32746
407.871.9607
MKS KSTUDIOS.COM

ARCHITECT:



WANNEMACHER, JENSEN ARCHITECTS
815 NORTHWEST 57 AVE. SUITE 219
MIAMI, FLORIDA 33126
727.822-5568
WJARC.COM AA0002277

MECHANICAL, PLUMBING,
& ELECTRICAL ENGINEERING:



5301 WATERFORD DISTRICT DR.
SUITE 750
664-421-1944
SGMENGINEERING.COM CA-00006208

REVISIONS		
NO.	DESCRIPTION	DATE
1	ISSUED FOR BUILDING PERMIT	11/21/2024
2	REVISED FOR BUILDING PERMIT	01/10/2025

ISSUE DATE:	03/02/2025
DESIGNED BY:	BB, NW
DRAWN BY:	CD, BB
CHECKED BY:	TD

This item has been
digitally signed and
sealed by **Thomas
F. Donahue, P.E.**
on the date
adjacent to the
seal.

Signature
must be verified on any
electronic copies.

2026.03.04 09:30:27-05'00'
THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT
**VILLAGE OF
PINECREST**
PINECREST PARKS & RECREATION



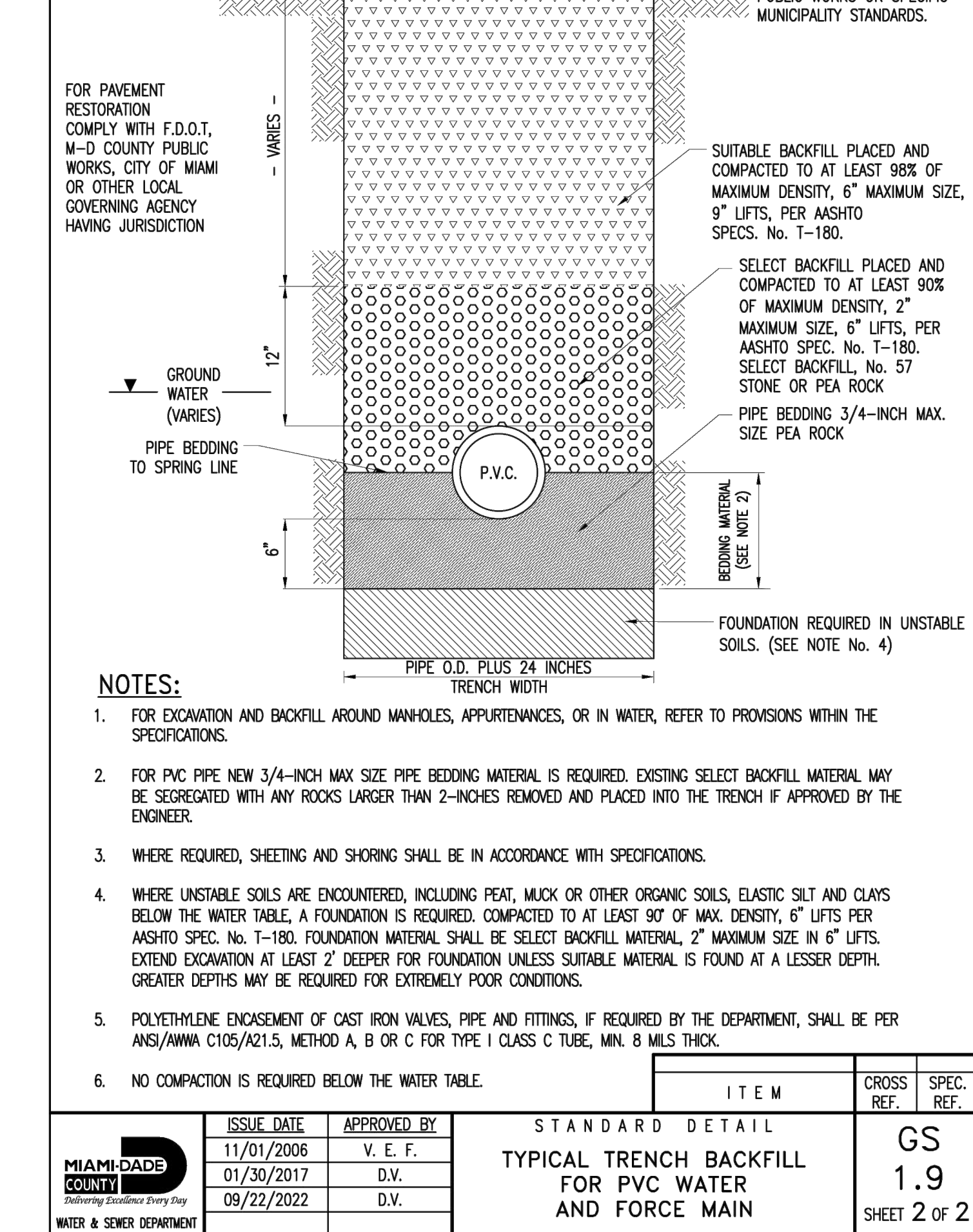
PROJECT
**GARY MATZNER
PARK**

SHEET TITLE
**WATER & SEWER
PROFILE**

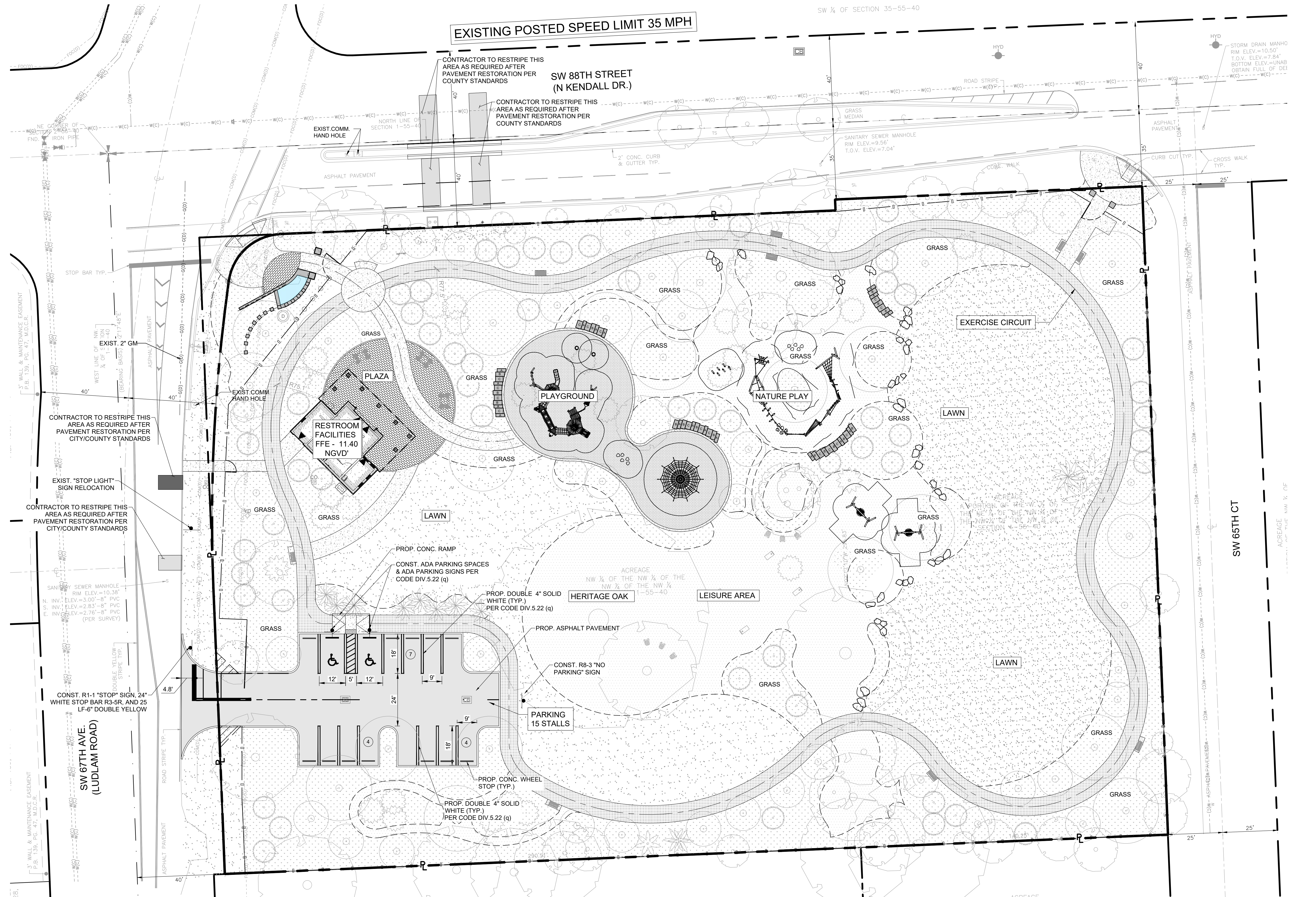
SHEET
NUMBER
CU-201

KEITH PROJECT
NUMBER
13861.00

STATUS: CONSTRUCTION DOCUMENTS



1. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SANDBLASTING ONLY.
2. ALL EXISTING TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS WILL BE REMOVED OR RELOCATED BY THE CONTRACTOR.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY TRAFFIC AND DESIGN STANDARDS.
4. ALL MARKINGS WITHIN R/W SHALL BE THERMOPLASTIC. ALL ON-SITE MARKINGS SHALL BE PAINT EXCEPT 24" SOLID WHITE STOP BARS WHICH SHALL BE THERMOPLASTIC.
5. FOOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
6. ALL PAVEMENT MARKINGS ON PAVEMENT SYSTEMS SHALL BE 3M ⁵⁰⁰ TAPES AND APPLIED WITH AN E43 CONTACT CEMENT AS PER MANUFACTURER'S SPECIFICATIONS.
7. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF SIGN POSTS.
8. ALL PARKING LOT STRIPES (BETWEEN PARKING STALLS) SHALL BE 4" WHITE PAINT, EXCEPT FOR SANDICAP PARKING SPACES, WHICH SHALL MEET FOOT STANDARDS.
9. ALL STOP BARS SHALL BE THERMOPLASTIC AND HAVE GLASS BEADS.
10. THESE CIVIL ENGINEERING PLANS ARE FOR PAVING, STORM DRAINAGE, GRADING, WATER DISTRIBUTION, SANITARY SEWER COLLECTION, PAVEMENT MARKINGS AND SIGNAGE, AND CIVIL ENGINEERING DETAILS ONLY. FOR EXACT LAY-OUT, SETBACKS, ZONING INFORMATION, ZONING SETBACKS, ETC., SEE PLANS PREPARED BY THE ARCHITECT.
11. ALL STOP SIGNS SHALL BE A MINIMUM OF 4' BEHIND CROSSWALK.
12. 24" STOP BAR AT R.O.W. SHALL BE THERMOPLASTIC.
13. THE CITY ENGINEER IS RESPONSIBLE FOR REVIEWING AND APPROVING THE ON-SITE PAVEMENT MARKINGS AND SIGNAGE, AND FOR INSPECTING AND ACCEPTING THE ON-SITE PAVEMENT MARKINGS AND SIGNAGE FOR MAINTENANCE BY THE PROPERTY OWNER.
14. REFER TO SHEETS 61-001 - 003 FOR ADDITIONAL NOTES.
15. REFER TO SURVEY FOR LEGAL DESCRIPTION



KEITH PROJECT
NUMBER 13861.00

STATUS: CONSTRUCTION DOCUMENTS

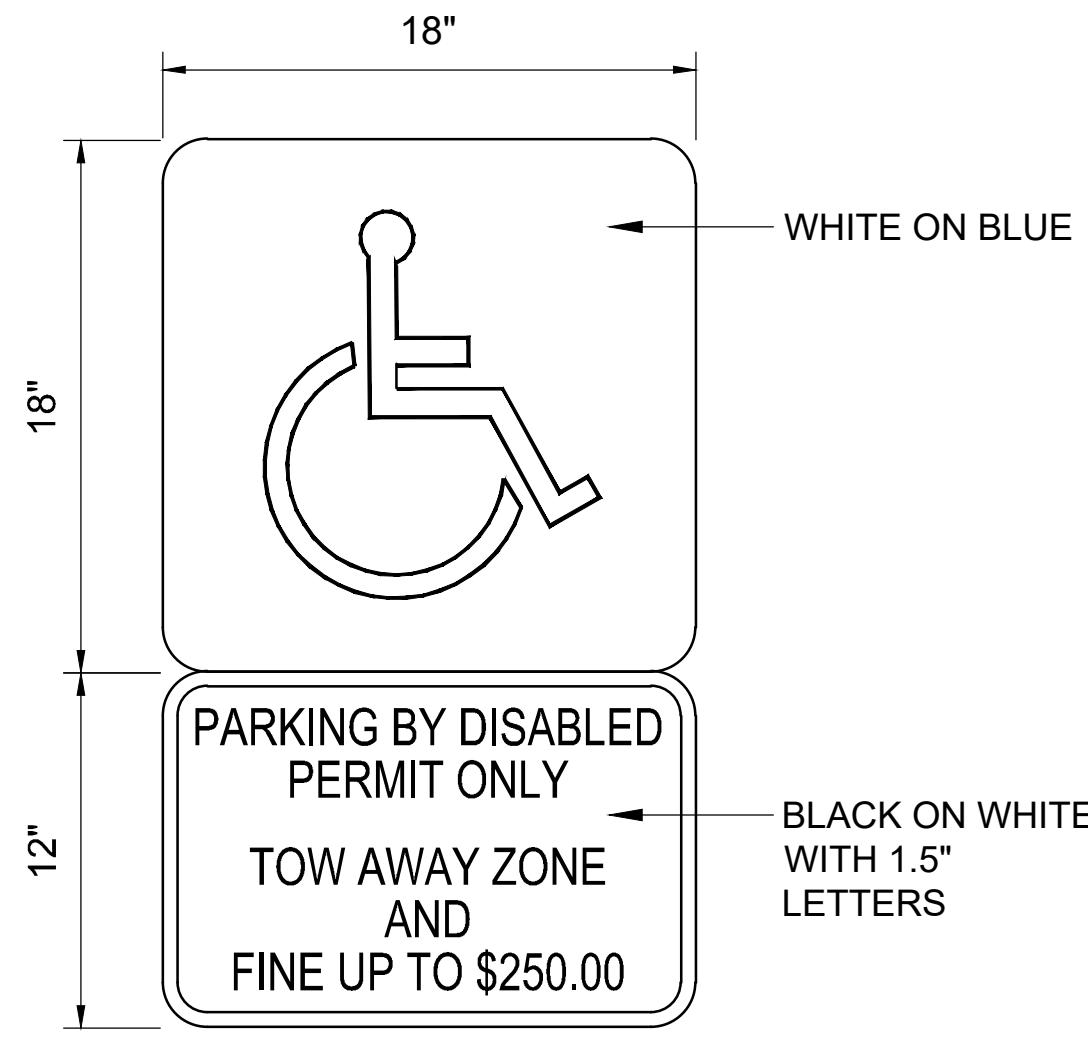
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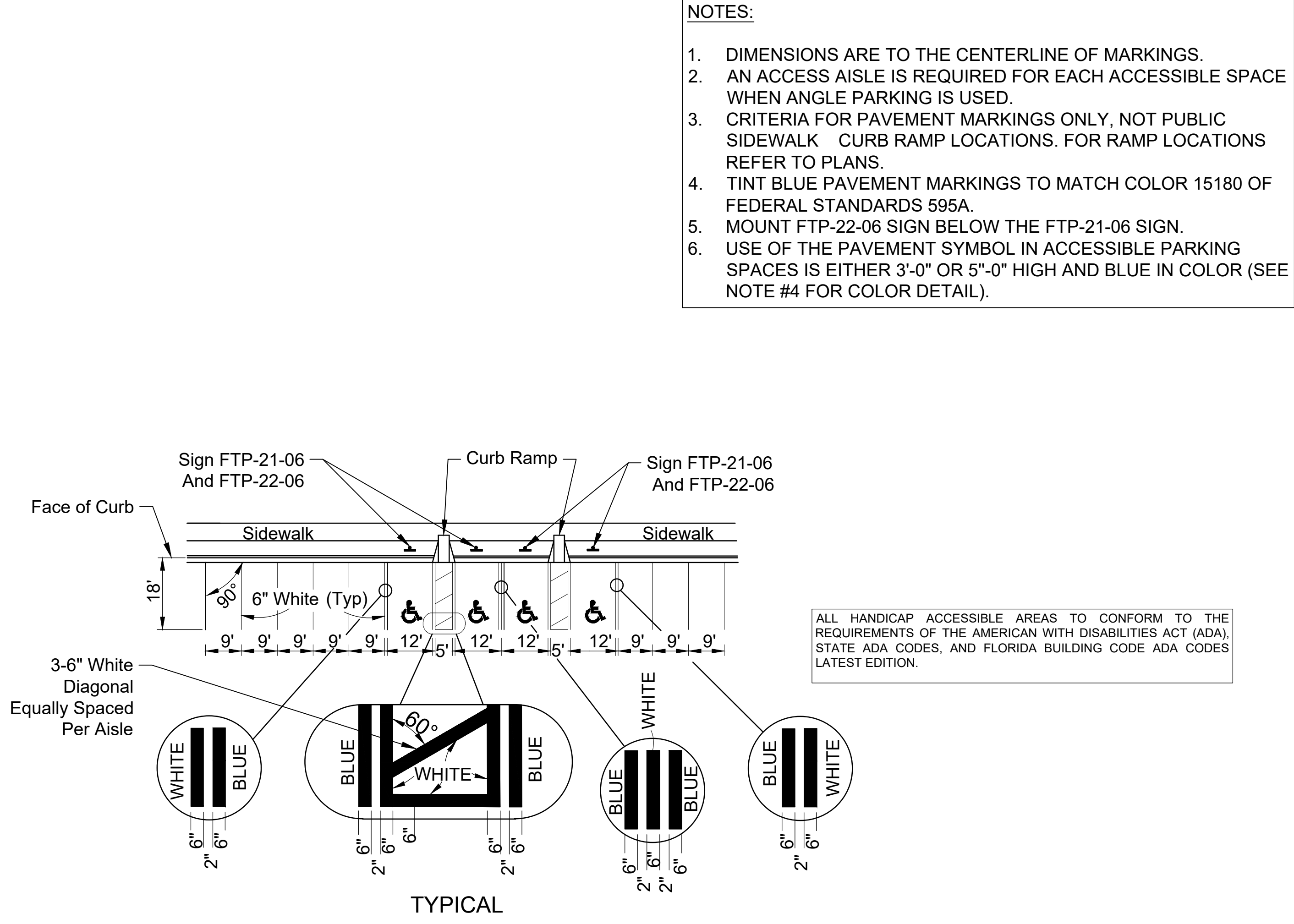
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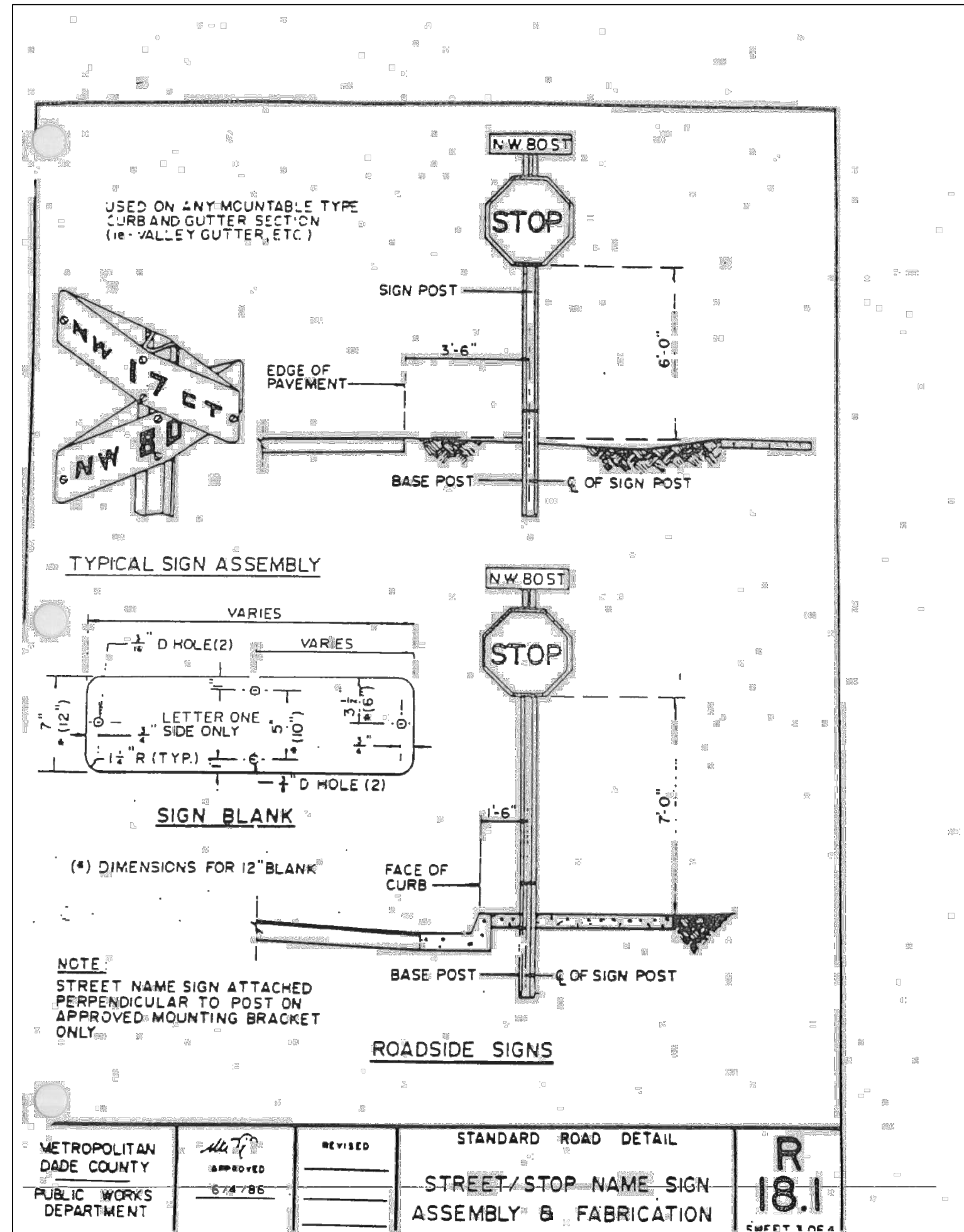
- NOTES:
1. TOP PORTION OF SIGN SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL.
 2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
 3. SIGN MAY BE FABRICATED ON ONE PANEL OR TWO.
 4. SIGNS ARE TO BE MOUNTED AT A HEIGHT OF 5 FT. MINIMUM FROM PAVEMENT TO BOTTOM OF SIGN.

1 HANDICAP PARKING SIGN DETAIL NOT TO SCALE



- 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 STANDARDS 595A.
 5. MOUNT FTP-22-06 SIGN BELOW THE FTP-21-06 SIGN.
 6. USE OF THE PAVEMENT SYMBOL IN ACCESSIBLE PARKING SPACES IS EITHER 3'-0" OR 5'-0" HIGH AND BLUE IN COLOR (SEE NOTE #4 FOR COLOR DETAIL).

2 TYPICAL ADA PARKING DETAIL PER FDOT STD. DETAIL No. 711-001 (FY 2022-23) NOT TO SCALE



PROJECT LEAD & CIVIL ENGINEERING:

KEITH

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POMPAUNO BEACH, FL 33060
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CHECKED BY: TD

This item has been digitally signed and sealed by Thomas F. Donahue, P.E. on the date adjacent to the seal.

Signature must be verified on any electronic copies.

2020.03.04 08:32:31-0500
THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

CLIENT

VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT

GARY MATZNER PARK

SHEET TITLE

PAVEMENT MARKING AND SIGNAGE DETAILS

SHEET NUMBER

CM-501

KEITH PROJECT NUMBER

13861.00

STATUS: CONSTRUCTION DOCUMENTS