GRAPHIC SCALE
1"=30'

STORMWATER LEGEND

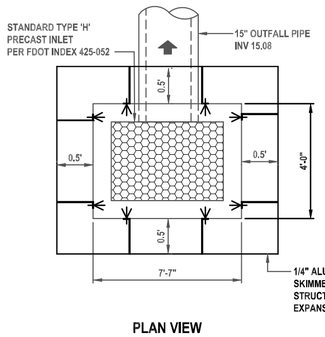
- PROPOSED TYPE "C" DITCH BOTTOM INLET
- PROPOSED TYPE "E" DITCH BOTTOM INLET
- PROPOSED TYPE 9 CURB INLET
- PROPOSED MITERED END SECTION
- PROPOSED TYPE 6 CURB INLET
- PROPOSED STORM PIPE
- PROPOSED STORMWATER MANHOLE
- CULTEC 100 HD EXFILTRATION CHAMBERS
- CULTEC 100 HD SEPERATOR ROW

SUMMARY OF DRAINAGE:

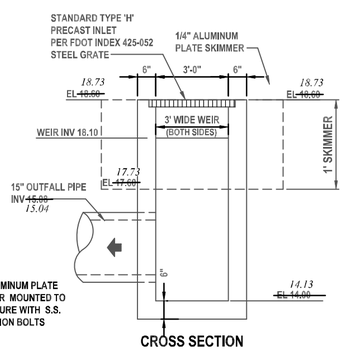
THE MINIMUM WATER QUALITY TREATMENT VOLUME REQUIRED IS EQUAL TO 2.5-INCHES OVER THE IMPERVIOUS SURFACE RUNOFF OVER THE DRAINAGE BASIN. STORMWATER TREATMENT IS PROVIDED BY AN EXFILTRATION CHAMBER / DRY POND TO WET POND SYSTEM. THE TREATMENT SYSTEM IS DESIGNED SO THAT THE POST DEVELOPMENT DISCHARGE RATE AND VOLUME DOES NOT EXCEED THE PRE-DEVELOPMENT DISCHARGE RATE AND VOLUME FOR THE MEAN ANNUAL, 10 YEAR, 24 HOUR AND 25 YEAR, 24 HOUR STORM EVENTS.

Design Storm		Rainfall (inches)	Discharge Rate (cfs)	Outflow Volume (ft^3)	Peak Stage Culver's Dry Pond (ft)
Mean Annual, 24-Hour	PRE	5.0	4.45	36,811	18.13
	POST		0.21	4,796	
10 Year, 24-Hour	PRE	7.5	7.71	64,235	18.29
	POST		4.02	24,413	
25 Year, 24-Hour	PRE	9.5	10.34	86,886	18.45
	POST		9.47	42,287	

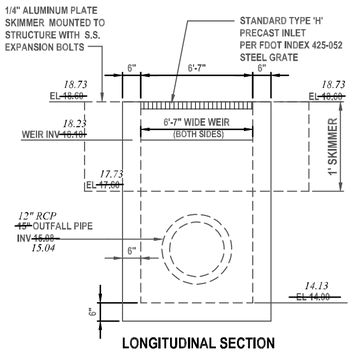
TREATMENT VOLUME REQUIRED (AC-FT)	TREATMENT VOLUME PROVIDED (AC-FT)
0.331	0.338



PLAN VIEW



CROSS SECTION



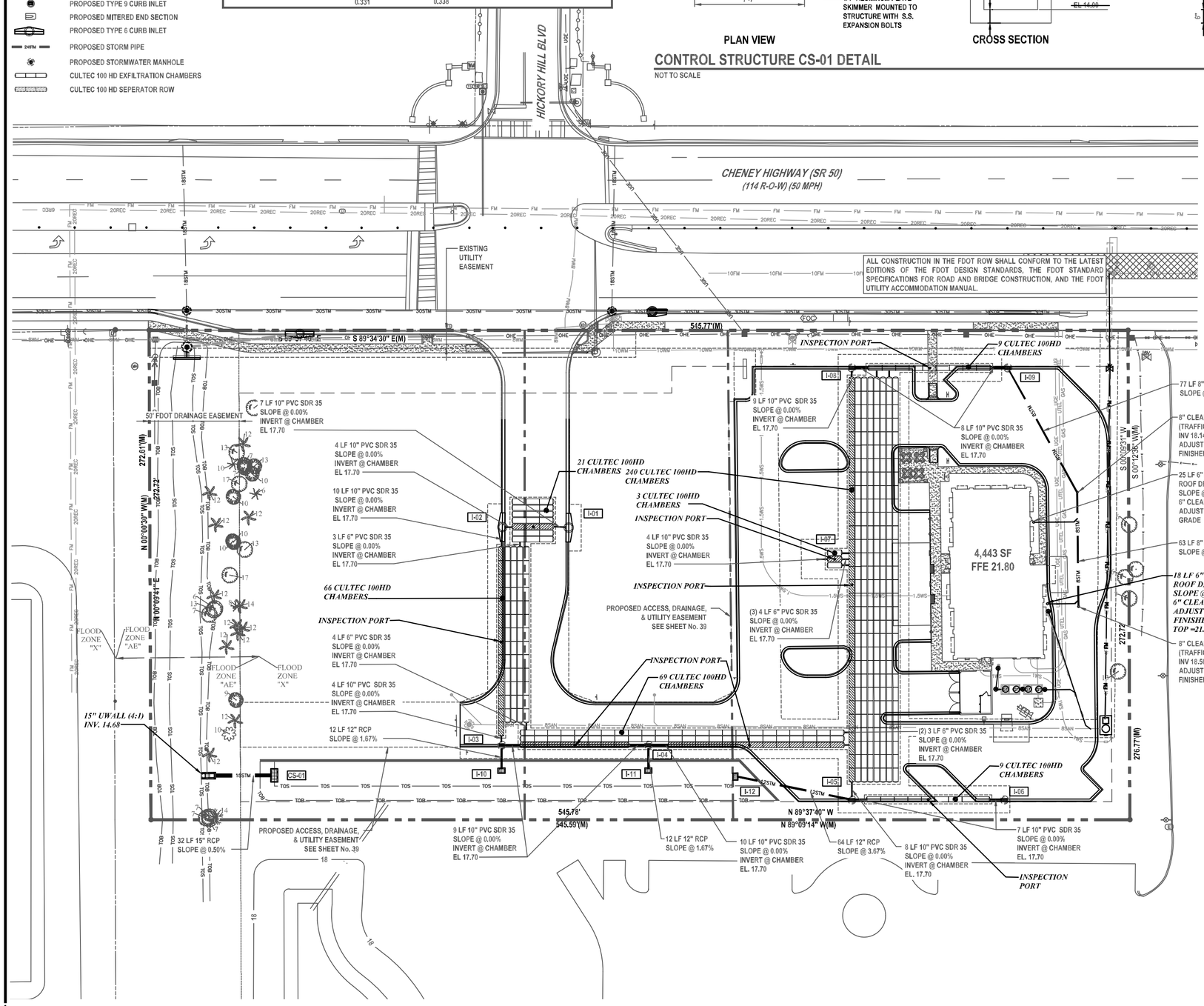
LONGITUDINAL SECTION

CONTROL STRUCTURE CS-01 DETAIL

NOT TO SCALE

GENERAL DRAINAGE NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO DRAINAGE SYSTEM AND SHALL RESTORE ANY DAMAGED STRUCTURES.
2. ALL PIPE FROM THE BUILDING DRAINS SHALL BE SMOOTH INTERIOR CORRUGATED EXTERIOR (SICE) HDPE OR PVC C-900.
3. ALL STORM PIPE SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP. ALL PIPE JOINTS SHALL BE WRAPPED PER FDOT INDEX 430-001.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MATERIAL AND STRUCTURES TO THE ENGINEER (NEWKIRK ENGINEERING, INC.) FOR APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING.
5. CONTRACTOR TO PLACE FILTER FABRIC BETWEEN DRAINAGE STRUCTURES AND TOPS TO PREVENT SOIL INTRUSION. THE FABRIC SHALL BE PERIODICALLY CLEANED OF SAND A DEBRIS FABRIC SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE.
6. ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN. FENCING TREES, & ETC., WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFFSITE.
7. ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST PER FDOT SPECIFICATIONS.
8. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY PER FDOT STANDARD SPECIFICATIONS AND MANUFACTURES SPECIFICATIONS RESPECTIVELY.
9. ALL DRAINAGE STRUCTURES AND PIPES SHALL BE CLEANED OF SAND AT THE LAST STAGE OF CONSTRUCTION PRIOR TO THE FINAL INSPECTION.
10. ALL STORM INLET GRATES SHALL BE STEEL (TRAFFIC RATED).



STORM STRUCTURE SCHEDULE

I.D.	SIZE	TYPE BOT	TYPE TOP	EOP ELEV	BOT ELEV	N INV	S INV	E INV	W INV
I-01	4.0' DIA	P	6	*20.47*	*16.67*	---	---	---	10" *17.63*
I-02	4.0' DIA	P	6	*20.52*	*16.72*	---	10" *17.92*	10" *17.67*	---
I-03	4.0' DIA	P	9	*19.98*	*15.95*	---	10" *17.68*	12" *17.21*	10" *17.77*	---
I-04	4.0' DIA	P	9	*20.03*	*16.19*	---	12" *17.21*	10" *17.74*	10" *17.67*
I-05	4.0' DIA	P	9	*20.12*	*16.70*	10" *17.65*	---	10" *17.76*	12" *17.18*
I-06	4.0' DIA	P	9	*20.05*	*16.94*	---	---	---	10" *17.55*
I-07	---	ALT-B	E	*20.42*	*16.15*	---	---	10" *17.73*	---
I-08	4.0' DIA	P	9	*19.94*	*16.22*	---	10" *17.66*	10" *17.73*	---
I-09	4.0' DIA	P	9	*19.87*	*16.63*	---	8" *17.62*	---	10" *17.71*
I-10	---	ALT-B	C	*16.99*	*13.63*	---	12" *14.67*	---	---
I-11	---	ALT-B	C	*16.98*	*13.63*	---	12" *14.67*	---	---
I-12	---	ALT-B	C	*16.99*	*13.63*	---	12" *14.69*	---	---

STORM STRUCTURE NOTES:

1. ROUND STRUCTURE BOTTOMS ARE FDOT ALTERNATE 'A'.
2. SQUARE/RECTANGULAR STRUCTURE BOTTOMS ARE FDOT ALTERNATE 'B'.
3. 4'-0" DIAMETER AND SMALLER AND 3'-6" SQUARE STANDARD STRUCTURE BOTTOMS ARE FDOT TYPE DESIGNATED 'P' LARGER STANDARD STRUCTURE BOTTOMS ARE DESIGNATED TYPE 'J'.
4. "EOP" = EDGE OF PAVEMENT
5. INSTALL 12"x12" WEEP HOLE AT BOTTOM OF ALL STRUCTURES WITH 24"x24"x12" THICK AGGREGATE BED WRAPPED WITH FILTER FABRIC.

DRAINAGE PIPE MINIMUM SLOPE REQUIREMENTS

PIPE SIZE (IN)	SELF-CLEANSING VELOCITY (FPS)	MANNINGS (N)	RADIUS (FT)	CROSS-SECTIONAL AREA (FT)	WETTED PERIMETER	MINIMUM SLOPE (FT / 100 FT)
15	3.0	0.012	0.625	1.227	FULL & ½ FULL	0.0028
24	3.0	0.012	1.00	3.142	FULL & ½ FULL	0.0015

GENERAL NOTES

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3. *HORIZONTAL AND VERTICAL CONTROL WERE PROVIDED WITHIN THE AUTOCAD DRAWINGS BY NEWKIRK ENGINEERING.*
4. *SOME FEATURES SHOWN HEREON MAY BE EXAGGERATED FOR PICTORIAL PURPOSES PUBLISHED DIMENSIONS WILL PRECEDE MAP SCALINGS.*
5. *NOT ALL MEASUREMENTS (SIZE, TYPES & ELEVATION OF LINES) WERE OBTAINABLE BY CONVENTIONAL METHODS. THE CONTRACTORS NOTES, PICTURES AND OR BORE LOGS MAY HAVE BEEN RELIED UPON.*
6. *AS-BUILT DATA SHOWN HEREON INDICATED BY BOLD TEXT AND/OR BOLD ITALIC TEXT.*
7. *AS-BUILT/RECORD SURVEYS WHEN IDENTIFIED AS TYPE OF SURVEY.*
   A.) WHEN UNDERGROUND UTILITIES, SUCH AS UNDERGROUND CABLES, GAS MAINS, WATER MAINS, SANITARY SEWER SYSTEMS AND STORM COLLECTIONS SYSTEMS ARE SHOWN. THE LIMITS OF THIS SURVEY INCLUDE VISIBLE STRUCTURES/ IMPROVEMENTS IN COMBINATION WITH AS-BUILT/RECORD DRAWINGS SUPPLIED BY OTHERS.
   B.) WHEN THE PERCENTAGE OF SLOPES ARE SHOWN IT IS BASED ON THE INVERTS BETWEEN VISIBLE STRUCTURES. THIS SURVEY DOES NOT INCLUDE VIDEO PIPELINE INSPECTIONS. VERIFICATION OF LINE OF SITE HAS NOT BEEN VERIFIED. THIS SURVEYOR SUGGESTS VIDEO PIPELINE INSPECTION BY A PROFESSIONAL PROVIDING SERVICE OF THAT SPECIALTY.

AS-BUILT LEGEND

28.46	*AS-BUILT ELEVATION*
EL	*ELEVATION*
INV	*INVERT*

.\IMG\SUN811_BLUEPRINT LOGO.png

WARNING !!

CONTRACTOR SHALL TAKE ALL PRECAUTIONS DURING CONSTRUCTION TO AVOID CONTACT WITH EXISTING UNDERGROUND UTILITIES, GAS MAINS AND OVERHEAD ELECTRIC IN THE RIGHT-OF-WAY.

A1A SURVEYING, INC.
Professional Surveyor
Residential Commercial Construction
Phone: 386.679.2363
711 Pineland Trail, Ormond Beach, Florida 32174 LB 8205

AS-BUILT INFORMATION SHOWN IN BOLD AND/OR BOLD ITALICS SURVEY TO SHOW AS-BUILT OF DRAINAGE PLAN DATED 11/10/2023

THE FOREGOING AS-BUILT IS CERTIFIED TO MEET THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS AS PER CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, AS PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

LS # 6378
11/10/2023
DAVID McMILLEN

REVISIONS

DATE	DESCRIPTION
08/03/22	CITY COMMENTS
01/05/23	CITY COMMENTS

1230 North US1, Suite 3
Ormond Beach, Florida 32174
Phone (386) 672-7794
www.Newkirk-Engineering.com
C.A. # 29209
L.C. # 26000584

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Civil Engineering, Transportation, CEI & Landscape Architecture

NEWKIRK ENGINEERING INC.

DRAINAGE PLAN
CULVER'S - TITUSVILLE
2855 CHENEY HIGHWAY (SR - 50)
TITUSVILLE, FL 32780

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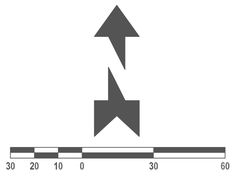
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PROJECT No:	2021-357
DATE:	MAY 2022
DESIGN BY:	STS
DRAWN BY:	MLH
CHECKED BY:	HHN
SCALE:	1" = 30'

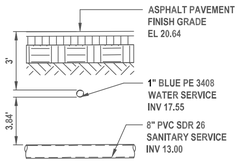
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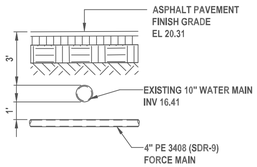


PROPOSED UTILITY LEGEND

- FM — FORCE MAIN (# INDICATES SIZE)
- SAN — SANITARY SEWER (# INDICATES SIZE)
- WS — POLYETHYLENE WATER SERVICE (# INDICATES SIZE)
- WM — WATER MAIN (# INDICATES SIZE)
- REC — RECLAIM SERVICE (# INDICATES SIZE)
- GAS — GAS SERVICE (# INDICATES SIZE)
- UCP — UNDERGROUND ELECTRICAL CONDUIT (4")
- UTEL — UNDERGROUND TELEPHONE CONDUIT (4")



CONFLICT POINT 1



CONFLICT POINT 2

GENERAL UTILITY NOTES:

1. THE CITY OF TITUSVILLE UTILITY DEPARTMENT SHALL BE NOTIFIED PRIOR TO BEGINNING ANY WATER SYSTEM OR SEWER CONSTRUCTION.
2. SEE CITY OF TITUSVILLE UTILITY COMMON DETAILS, SHEET No. **27.**
3. ALL SANITARY SEWER CLEANOUTS TO BE 6-INCHES AND LOCATED IN A TRAFFIC BEARING BOX.
4. GREASE TRAPS WILL BE REQUIRED TO FOLLOW CITY DETAILS. SEE DETAILS, SHEET No. **25**.
5. UNLESS OTHERWISE NOTED OR APPROVED BY THE WATER RESOURCES DEPARTMENT, ALL MATERIALS SHALL BE MANUFACTURED IN THE UNITED STATES.

REQUIRED FIRE FLOW:

"SITE DESIGNED IN ACCORDANCE TO THE CURRENT FLORIDA FIRE PREVENTION CODE"

FLORIDA BUILDING CODE CONSTRUCTION TYPE:	VB (UNPROTECTED)
FIRE AREA:	4,460 SF
REQUIRED FIRE FLOW:	1,750 GPM @ 2 HOURS
PROVIDED FIRE FLOW:	3,611 GPM @ 20 PSI

GENERAL SEWER NOTES:

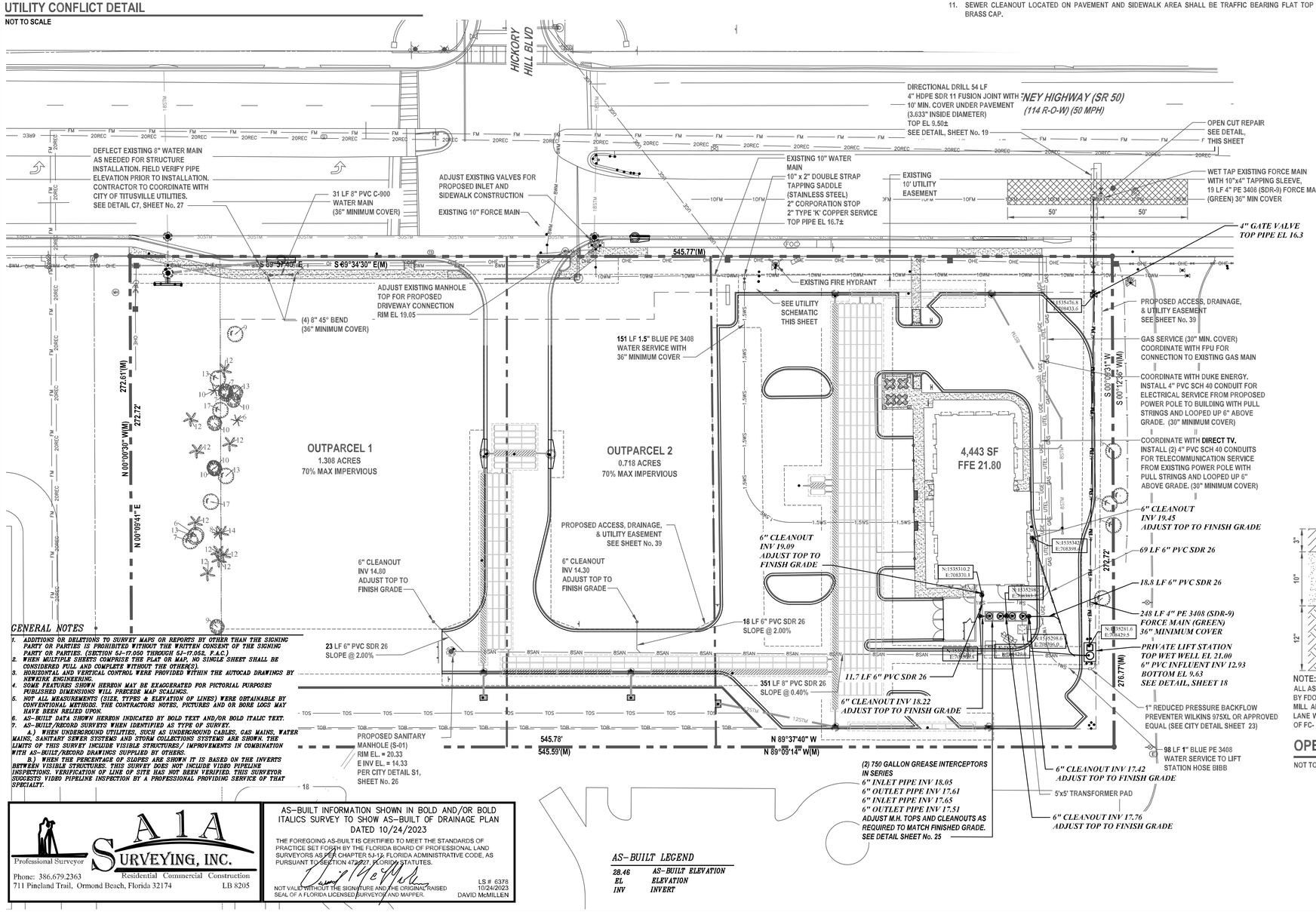
1. CITY OF TITUSVILLE SHALL BE NOTIFIED PRIOR TO ANY SEWER CONSTRUCTION.
2. ALL SEWER CONSTRUCTION MUST COMPLY WITH FDEP REGULATIONS AND THE CITY OF TITUSVILLE UTILITY DETAILS AND SPECIFICATIONS (LATEST EDITION).
3. ALL SANITARY SEWER LINES SHALL BE PVC SDR 26 DUE TO THE MINIMUM AMOUNT OF COVER. WATER LINES, RECLAIMED LINES AND STORM DRAINAGE CROSSINGS SHALL FOLLOW THE C-900 OR CONCRETE ENCASEMENT REQUIREMENT PER THESE STANDARDS AND AS FDEP REQUIREMENTS. STANDARDS AND AS PER FDEP REQUIREMENTS.
4. SEWER LINE CONSTRUCTION SHALL BE ACCOMPLISHED BY THE USE OF A LASER INSTRUMENT UNLESS ANOTHER METHOD IS PREVIOUSLY APPROVED BY CITY.
5. THE CONTRACTOR SHALL AT ALL TIMES, DURING PIPE LAYING, DEWATER THE GROUND SUFFICIENTLY TO KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6" BELOW THE PIPE BEING LAID WITHIN THE AREA OF THE TRENCH.
6. ALL PIPES SHALL BE LAID ON A FIRM FOUNDATION. SOFT OR SPONGY BEDDING FOR PIPES WILL NOT BE ACCEPTED. ANY UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH A DRY, COMPACTED, GRANULAR MATERIAL SATISFACTORY TO THE CITY.
7. SANITARY SEWER PIPE SHALL BE PVC SDR 26.
8. EXCAVATION AND BACKFILL: THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING AND BRACING OF EXCAVATION WORK IN ORDER TO PROVIDE FOR THE SAFETY OF WORKMEN, AS WELL AS REPRESENTATIVES OF THE CITY OF TITUSVILLE, THE DESIGN ENGINEER, AND THE DEVELOPER.
9. ALL TRENCHES SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL AND COMPACTED TO MINIMUM COMPACTION OF (95) PERCENT OF THE OPTIMUM DENSITY OF THAT MATERIAL BASED ON THE AASHTO T-180 MODIFIED PROCTOR TEST.
10. ALL TESTING REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR.
11. SEWER CLEANOUT LOCATED ON PAVEMENT AND SIDEWALK AREA SHALL BE TRAFFIC BEARING FLAT TOP BRASS CAP.

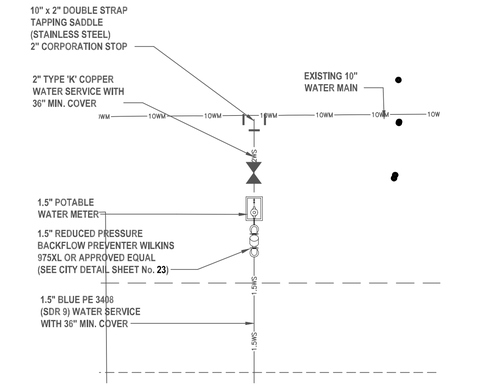
GENERAL WATER NOTES:

1. THE CITY OF TITUSVILLE WATER UTILITY DEPARTMENT SHALL BE NOTIFIED PRIOR TO BEGINNING ANY WATER SYSTEM CONSTRUCTION.
2. ALL WATER DISTRIBUTION CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDEP REGULATIONS AND THE CITY OF TITUSVILLE UTILITY DETAILS AND SPECIFICATIONS (LATEST EDITION).
3. CONTRACTOR IS TO VERIFY THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES (UNDERGROUND AND OVERHEAD) PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER.
4. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ANY EXISTING PAVEMENT, SIDEWALK, CURBING, UTILITIES AND DRAINAGE SYSTEMS DAMAGED DURING CONSTRUCTION. ALL DAMAGED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
5. LOCATION OF TELEPHONE, T.V. CABLE AND ELECTRICAL SERVICE CONNECTIONS TO BE DETERMINED BY APPROPRIATE UTILITIES PERSONNEL IN COOPERATION WITH CONTRACTOR.
6. ALL WATER MAINS SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
7. TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY WITH A MINIMUM COMPACTION OF 95 PERCENT (AASHTO-T180).
8. WATER SERVICES FROM 3/4" TO 2" POLYETHYLENE (ENDOT ENDOPURE) WITH 36" MINIMUM COVER.
9. WATER MAIN FROM 4" TO 12" SHALL BE PVC CLASS 150 (DR 18) WITH 36" MINIMUM COVER.
10. ALL WATER AND FIRE SERVICES ARE REQUIRED TO HAVE A HARD BODY GATE VALVE OFF THE MAIN LINE.
11. ALL VALVES SHALL BE BOLTED TO TEES.
12. ALL POTABLE WATER PIPE SHALL HAVE "NSF POTABLE WATER" IMPRINTED ON THE PIPE.
13. A TAPPING CONTRACTOR ACCEPTABLE TO THE CITY OF TITUSVILLE WILL BE REQUIRED FOR TAPS.
14. THE CONTRACTOR SHALL MAKE ALL ATTEMPTS TO LOCATE BURIED UTILITIES AND NOTIFY THE UTILITY COMPANIES 48 HR. PRIOR TO CONSTRUCTION.
15. UTILITY TRENCH CONSTRUCTION SHALL CONFORM TO CITY OF TITUSVILLE AND OSHA REQUIREMENTS.
16. IN THE CASE WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH THE APPROVAL OF THE CITY OF TITUSVILLE UTILITY DEPARTMENT, DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE WILL EXTEND AT LEAST 100 FEET BEYOND ANY DISCOVERED SOLVENT.
17. BACKFLOW PREVENTERS TO BE TESTED BY A CERTIFIED TESTER WITH RESULTS TO BE SENT TO THE CITY OF TITUSVILLE WATER DEPARTMENT (FAX No. (321) 383-5653).

UTILITY CONFLICT DETAIL

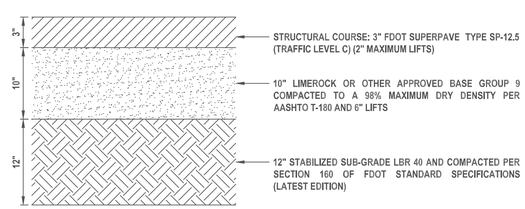
NOT TO SCALE





UTILITY SCHEMATIC DETAIL

NOT TO SCALE



NOTE:
ALL ASPHALT MIX DESIGNS MUST BE PREAPPROVED BY FDOT BEFORE PLACEMENT.
MILL AND RESURFACE 50 FT. EACH SIDE OF PATCH FULL LANE WIDTH IF TRAVEL LANE IS CUT. (REPLACE WITH 1.5" OF FC- 12.5 (TRAFFIC C) (RUBBER))

OPEN CUT REPAIR DETAILS

NOT TO SCALE

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AS-BUILT LEGEND

28.46	*AS-BUILT ELEVATION*
EL	*ELEVATION*
INV	*INVERT*

A1A SURVEYING, INC.
Professional Surveyor
Phone: 386.679.2363
711 Pineland Trail, Ormond Beach, Florida 32174
Residential Commercial Construction
LB 8205

AS-BUILT INFORMATION SHOWN IN BOLD AND/OR BOLD ITALICS SURVEY TO SHOW AS-BUILT OF DRAINAGE PLAN DATED 10/24/2023

THE FOREGOING AS-BUILT IS CERTIFIED TO MEET THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS AS PER CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, AS PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

LS # 6378
10/24/2023
DAVID McMILLEN

WARNING !!

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.\IMG\SUN811_BLUEPRINT LOGO.png

REVISIONS

DATE	DESCRIPTION
08/03/22	CITY COMMENTS
01/05/23	FDOT COMMENTS
07/18/23	DIRECTIONAL DRILL

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Ormond Beach, Florida 32174
Phone (386) 872-7794
www.NewKirk-Engineering.com
C.A. # 30209
L.C. # 26000584

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Transportation, CEI &
Landscape Architecture

NEWKIRK ENGINEERING INC.

ASBUILT
UTILITY PLAN
CULVER'S - TITUSVILLE
2855 CHENEY HIGHWAY (SR - 50)
TITUSVILLE, FL 32780

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PROJECT No:	2021-357
DATE:	MAY 2022
DESIGN BY:	STS
DRAWN BY:	MLH
CHECKED BY:	HHN
SCALE:	1" = 30'

DRAWING NUMBER

17