FAIRFIELD INN & SUITES WILDLIGHT, FL

YULEE, FL 32097

JKM IMPACT WILDLIGHT, LLC

FAIRFIELD INN & SUITES® Marriott®

PROJECT LOCATION

VICINITY MAP

UTILITY CONTACTS

A.	American Telephone and Telegraph	1-800-222-0400
B.	Bell South Telephone	780-2800
C.	Nassau County, Public Works	530-6225
D.	Nassau County Road and Bridge	530-6175
E.	Distribution Projects	665-6050
F.	Florida Department of Transportation	360-5400
G.	JEA - Collection and Distribution	904-665-6000
H.	JEA - General Information	904-665-6000
I.	JEA - Community Outreach	904-665-6000
J.	FPL - Power Outages	1-800-226-3545
K.	JEA - Sewer Problems	904-665-6000
L.	JEA - Water Problems	904-665-6000
M.	AT&T Broadband	1-800-222-0400
N.	Mobile Gas	733-9533
O.	Peoples Gas	737-4635
P.	Sunshine One Call	1-800-432-4770

LEGAL DESCRIPTION:

A PORTION OF TRACT "B" AS SHOWN ON PLAT OF EAST NASSAU - WILLDLIGHT PHASE 1A AS RECORDED IN PLAT BOOK 8, PAGES 203, 204, 205, 206, 207, 208, 209, 210, 211, 212 AND 213 OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHEAST CORNER OF TRACT "B" AS SHOWN ON PLAT OF EAST NASSAU - WILLDLIGHT PHASE 1A AS RECORDED IN PLAT BOOK 8, PAGES 203, 204, 205, 206, 207, 208, 209, 210, 211, 212 AND 213 OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA SAID POINT ALSO ON THE NORTHERLY RIGHT OF WAY LINE OF HOMEGROWN WAY (55 FOOT RIGHT OF WAY) AS SHOWN ON SAID PLAT OF EAST NASSAU - WILLDLIGHT PHASE 1A; THENCE ON SAID NORTHERLY RIGHT OF WAY LINE FOR THE NEXT 2 COURSES, S 86°20'12" W, A DISTANCE OF 185.32 FEET TO THE BEGINNING OF A CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 472.50 FEET AND A CENTRAL ANGLE OF 14°00'17"; THENCE ON THE ARC OF SAID CURVE, A DISTANCE OF 115.49 FEET SAID ARC BEING SUBTENDED BY A CHORD WHICH BEARS N 86°39'40" W, A DISTANCE OF 115.20 FEET TO A POINT; THENCE DEPARTING SAID NORTHERLY RIGHT OF WAY LINE, N 05°56'49" E, A DISTANCE OF 274.09 FEET TO A POINT ON THE SOUTHERLY RIGHT OF WAY LINE OF TINKER STREET (70 FOOT RIGHT OF WAY) AS SHOWN ON SAID PLAT OF EAST NASSAU - WILLDLIGHT PHASE 1A; THENCE ON SAID SOUTHERLY RIGHT OF WAY LINE, S 84°03'11" E, A DISTANCE OF 294.15 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY LINE OF WILDLIGHT AVENUE (78 FOOT RIGHT OF WAY AS SHOWN ON PLAT OF MARKET STREET OFFICE SITE AS RECORDED IN PLAT BOOK 8, PAGES 156, 157, 158, 159 AND 160 OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA SAID POINT ALSO BEGINNING OF A CURVE, CONCAVE NORTHWEST, HAVING A RADIUS OF 677.00 FEET AND A CENTRAL ANGLE OF 2°01'52"; THENCE DEPARTING SAID SOUTHERLY RIGHT OF WAY LINE AND ON SAID WESTERLY RIGHT OF WAY LINE AND ON THE ARC OF SAID CURVE FOR THE NEXT 3 COURSES, A DISTANCE OF 24.00 FEET SAID ARC BEING SUBTENDED BY A CHORD WHICH BEARS S 05°17'23" W, A DISTANCE OF 24.00 FEET TO THE CURVES END; THENCE S 06°18'19" W, A DISTANCE OF 139.81 FEET TO THE BEGINNING OF A CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 585.00 FEET AND A CENTRAL ANGLE OF 7°16'28"; THENCE ON THE ARC OF SAID CURVE, A DISTANCE OF 74.27 FEET SAID ARC BEING SUBTENDED BY A CHORD WHICH BEARS S 02°40'05" W, A DISTANCE OF 74.22 FEET TO THE POINT OF BEGINNING.

SHEET INDEX:

HENRY A. VORPE, JR. LICENSE No 49049 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Henry A Vorpe Jr.
Date: 2023.11.02 11:40:19 -04'00'

PROJECT CONTACTS

OWNER
JKM IMPACT WILDLIGHT, LLC
10175 FORTUNE PARKWAY, SUITE 504
JACKSONVILLE, FL 32256
(904) 302-9004

ENGINEER
AVA ENGINEERS, INC.
HENRY A. VORPE, P.E. #49049
4201 BAYMEADOWS ROAD SUITE 3
JACKSONVILLE, FL 32217
(904) 730-3223

SURVEYOR
CODYS PROFESSIONAL SURVEYING AND MAPPING, INC.
ROY T. FLOWERS, JR. PSM 6271
P.O. BOX 7540, JACKSONVILLE, FL 32238
(904) 696-8840

LANDSCAPE ARCHITECT
A&K LAND PLANNING AND DESIGN
KRIS REED, LA6667112
2621 SUNRISE RIDGE LANE
JACKSONVILLE, FL 32211
(904) 476-9692

JEA
DEANNA DAVIS
21 W CHURCH ST, T-4
JACKSONVILLE, FL 32202
(904) 665-8451

PROJECT INFORMATION

GENERAL	
PROJECT NAME	FAIRFIELD INN & SUITES WILDLIGHT
PROJECT ADDRESS	YULEE, FL 32097
PROJECT ACREAGE (TOTAL/IMPERVIOUS)	1.76 AC./1.25 AC.
CONCURRENCY APPLICATION NUMBER	N/A
PROPERTY APPRAISER NUMBER (RE#)	44-2N-27-1000-00TB-0010
JEA AVAILABILITY #	2022-2767
FUTURE LAND USE	ENCPA
ZONING DESIGNATION	PD-ENCPA
PUD ORDINANCE NUMBER	N/A
FIRM / COMMUNITY / PANEL	N/A
FLOOD ZONES (SHOW IN PLANS)	ZONE X
BASE FLOOD ELEV. (SHOW IN PLANS)	N/A
VERTICAL DATUM USED FOR PROJECT	NAVD 88
SUBDIVISION	
PSD NUMBER	N/A
CITY OR PRIVATE INSPECTION	N/A
PUBLIC OR PRIVATE ROADS	N/A
SUBDIVISION (911) DISK PROVIDED?	N/A
NON-SUBDIVISION	
NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS)	721110
IMPERVIOUS AREA (SQ. FT.)	54,450 SF

THIS PROJECT HAS BEEN DESIGNED UNDER JEA 2023 STANDARDS.

No.	Revisions	By
1		
2		
3		
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE, FLORIDA 32217
Ph. (904) 730-3223 | Fx. (904) 730-3226
Henry A. Vorpe, Jr. No. 49049

FAIRFIELD INN & SUITES WILDLIGHT

COVER PAGE

Florida

Nassau County

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:

Sheet: 1 of 17

Development Review General Notes:

1. Engineering Plans approval does not constitute permission to violate any adopted Federal, State, or Local law, code, or ordinance.
2. All work within the public streets and right-of-ways shall conform to Nassau County Land Development Codes (LDC), FDOT Standard Indices, Florida Greenbook, Nassau County Roadway and Drainage Standards, and Nassau County Standard Details as necessary. For any discrepancy between standards, the most stringent shall prevail.
3. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 6.2.4, site shall be constructed per approved construction drawings. Any substantial deviation shall be concurrently reviewed by Engineer of Record and Nassau County Development Review Committee prior to field changes.
4. A pre-construction meeting with Nassau County Engineering Services Construction Inspector is required. Attendees shall be Nassau County, Engineer of Record, Contractor, Testing firm, Paving firm, and utility companies per Nassau County Ordinance 99-17 Section 7.2.3. Nassau County may cancel pre-construction meeting if attendee list is inadequate. Nassau County Engineering Services can be reached at 904-530-6225.
5. The contractor shall schedule and coordinate all work with the appropriate Nassau County Construction Inspector assigned to the project per Nassau County Ordinance 99-17 Section 7.2.
6. All work shall be performed in a safe manner. All safety rules and guidelines of O.S.H.A. shall be followed. The contractor shall be wholly responsible for any injuries to his employees and any damage to private property or persons during the course of this project.
7. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 11.8.1, any disturbed areas within Nassau County Right-of-Way shall be sodded.
8. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 7.4.1, at the time of final inspection, grassing shall be a minimum of seventy percent coverage and fully established and/or sodding to be one hundred percent coverage and stabilized.
9. Engineer of Record approved shop drawings shall be provided to Nassau County Construction Inspector a minimum of one week before beginning structure installation.
10. Parking at mail kiosks is required per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 8.4. Mail kiosk locations are subject to USPS Postmaster approval.
11. The developer's contractor is the single responsible party for the proper implementation of an Erosion Protection Sediment Control (EPSC) within each lot or construction site. This includes the responsibility for the actions/inactions of employees, subcontractors, and/or suppliers.
12. Sidewalks to be provided and built in accordance Florida Building Code. All proposed sidewalks shall meet ADA requirements.
13. The Contractor shall comply with current Florida accessibility standards for all work on this project.
14. Per Ordinance 99-17 Section 8.5.1, minimum cover for water lines and force mains under pavement shall 42" and 36" in green areas.
15. All water, sewer, and storm water construction within Nassau County ROW shall be accomplished by an underground utility contractor licensed under the provisions of Chapter 409 of the Florida Statutes.
16. No work shall be permitted between the hours of 7:00 PM - 7:00AM without prior approval from Nassau County Engineering Services.
17. All trees required to be protected shall be flagged for protection prior to clearing.
18. All grading and placement of compacted fill shall be in accordance with the latest Nassau County Specifications.
19. Any damages (sidewalk, curb, asphalt, ditch grading, et cetera) within Public Right-of-Way shall be repaired or replaced in accordance with Nassau County Specifications. Proposed repair method shall be approved by Nassau County Engineering Services.
20. Any asphalt millings from Nassau County ROW shall be delivered to the Road Department Laydown yard located on Gene Lasserre Boulevard or Pea Farm Road. Please contact the Road Department at (904) 530-6175.
21. Per Nassau County Ordinance 99-17 Section 7.4.2 and 7.4.4, as-built drawings shall be submitted to Nassau County before a final inspection can be scheduled. As-builts submittals will be in accordance with Nassau County as-built requirement checklist. As-built drawings shall be certified by required licensed surveyor and approved by Engineer of Record.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES	DEVELOPMENT REVIEW GENERAL NOTES	NOTE SHEET: 1 DWG: ISSUED: 12/09/2020

Stormwater Drainage Notes:

1. All stormwater drainage facilities within Public Right-of-Way and paved areas, including Nassau County Right-of-Way, turn lanes, residential roadways, drive aisles for multi-family developments, and major drive aisles for commercial developments shall be laser profiled per FDOT Section 430.
2. A builder cannot modify the County's storm water management system including the pipes, inlets, area drains, ditches and related elements typically within the street or within a drainage easement without the prior written approval of the County Engineer or designee.
3. Drainage easements and ditches should remain free of stockpiled soil, sediment, mud, construction materials/waste, et cetera at all times. Positive stormwater flow must be maintained throughout construction.
4. The contractor shall temporarily or permanently stabilize bare soil areas and soil stockpiles when the area is inactive for fourteen days or more or has reached finished grade.
5. Per Ordinance 99-17 Section 11.11.5.4, all gravity flow pipe installations shall have a soil tight joint performance unless specific site factors warrant watertight joint performance.
6. Per Ordinance 99-17 Section 10.6.5.1, immediately install additional Erosion Protection Sediment Control measures if sediment is leaving your site. Failure to contain sediment to your site may result in delayed inspections, notices of violation, citations, fines, penalties, and/or stop work orders.
7. Per 99-17 Section 10.1.2.a-e, stormwater management for a project shall not have adverse effects on adjacent properties, downstream structures, or rights of other landowners.

Paving Notes:

1. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 12.2 and 12.4, a construction bond and 26-month maintenance bond will be required for all work within Nassau County Right-of-Way.
2. A pre-pave meeting is required prior to any paving operations within Nassau County ROW, residential subdivisions, or multi-family developments.
3. Approved mix designs shall be provided to Nassau County Construction Inspector 48 hours prior to pre-pave meeting or placement of concrete.
4. Contractor is required to have a Certified QC Asphalt Level II Technician during any asphalt operations within Nassau County ROW, residential subdivision, or multi-family developments.
5. All bases shall be primed in accordance with Ordinance 99-17 Section 11.5.2.3, Nassau County Standard Details, and FDOT Standard Specifications.
6. Signage and pavement markings shall be in compliance with Nassau County Standards, Manual on Uniform Traffic Control Devices (MUTCD), and FDOT Standard Plans.
7. Maintenance of Traffic (MOT) shall be in compliance with FDOT Standard Index 600 Series.
8. All work, materials, and testing performed within Nassau County right-of-way and single-family/multi-family developments shall be in accordance with the current revision of Nassau County's Ordinance 99-17 and all current Nassau County Standard Details.
9. Per Ordinance 99-17 Section 11.9.2, all pavement markings within Nassau County ROW shall be lead free thermoplastic meeting Nassau County and FDOT Standard Specification Latest Edition.
10. Removing pavement markings within Nassau County ROW shall be:
    a. Grinding or hydro-blasting on weathered asphalt surfaces.
    b. Hydro-blasting only on new asphalt surfaces.
    c. Paint Blackout is prohibited.
11. Per Ordinance 99-17 Section 8.5.5, any damage to pavement resulting from construction or pavement marking removal withinPublic ROW not planned as part of the project shall be milled and overlaid for entire width of roadway and length of damage plus 50' in each direction.
12. All underground utilities, or appropriate conduit sleeves, that are to be installed under pavement must be installed prior to preparation of the subgrade for pavement.
13. Single Vertical Joints in roadway construction shall be avoided in Nassau County Right-of-Way using Nassau County Standard Detail #26.
14. All drainage structures shall have traffic bearing grates that meet or exceed the rating for the facilities expected traffic.
15. All concrete shall be a minimum of 3000 psi within Public Right-of-Way.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES	STORMWATER DRAINAGE & PAVING NOTES	NOTE SHEET: 2 DWG: ISSUED: 12/09/2020

No.	Revisions	By
1		
2		
3		
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-2223 | Fx. (904) 730-2226
Henry A. Verpa Jr. No. 65943

FAIRFIELD INN & SUITES WILDLIGHT

GENERAL NOTES

Florida

Nassau County

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:
Sheet: 2 of 17

TINKER STREET
(70' RIGHT OF WAY)

8" DR18 PVC WM

EXISTING FIRE HYDRANT

R.O.W.

JEA UTILITY EASEMENT 5 O.R.B. 2110, PG. 487

S 84°03'11" E 294.15'

T R A C T "B"
PLAT BOOK 8, PAGES 203 - 213
EAST NASSAU - WILDLIGHT PHASE 1A

CONSTRUCT AND MAINTAIN SILT FENCING (TYP)

EXISTING SANITARY LINE

POINT OF BEGINNING
SOUTHEAST CORNER
OF TRACT "B"
EAST NASSAU – WILDLIGHT PHASE 1A
PLAT BOOK 8, PAGES 203 – 213

N 3°56'49" E 274.09'

CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER DETAIL THIS SHEET

DEMO ~25 LF EXISTING 8" PVC WM

12' ESMT

EXISTING WATER STUB

8" DR18 PVC WM

10' ESMT

EXIST. FHA

EXISTING DRAINAGE STUB

30' DRAINAGE EASEMENT

JEA UTILITY EASEMENT 4 O.R.B. 2110, PG. 487

S 86°20'12" W 185.32'

HOMEGROWN WAY
(55' RIGHT OF WAY)

S 85°58'02" E 260.18'

N 85°58'02" W 257.06'

8" DR18 PVC RM

8" DR18 PVC WM

N 81°13'01" E 99.47'

S 81°13'01" W 100.50'

N 85°14'11" E 141.26'

S 87°57'29" E 125.37'

15' DRAINAGE EASEMENT

N 87°57'29" W 126.99'

S 85°14'11" W 142.36'

4" DR18 PVC RM

8" DR18 PVC WM

WILDLIGHT AVENUE
(78' RIGHT OF WAY)

MARKET STREET OFFICE SITE
PLAT BOOK 8, PAGES 156 – 160

R.O.W.

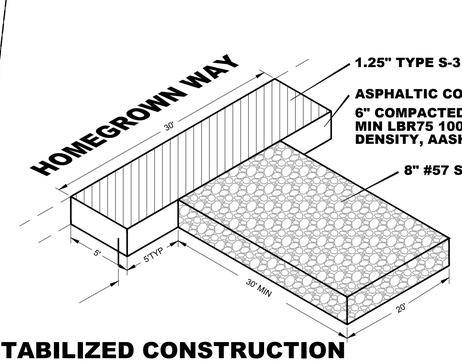
JEA UTILITY EASEMENT 6 O.R.B. 2110, PG. 487

15' DRAINAGE EASEMENT

TO DRAIN

LEGEND

- EASEMENT
- SILT FENCE
- BOUNDARY
- R.O.W.
- EX. CONTOURS
- EX. FIRE HYDRANT
- EX. WATER / RW VALVE
- EX. WATER MAIN
- EX. FORCEMAIN
- EX. RW MAIN
- EX. GAS MAIN



STABILIZED CONSTRUCTION ENTRANCE

SEE LANDSCAPE PLAN FOR EXISTING TREES TO BE REMOVED/PROTECTED

EXISTING TOPO ON NAVD 88 DATUM AS PROVIDED BY OWNER

GRAPHIC SCALE
0 20 30 40
1" = 20'

No.	Revisions	By
1		
2		
3		
4		

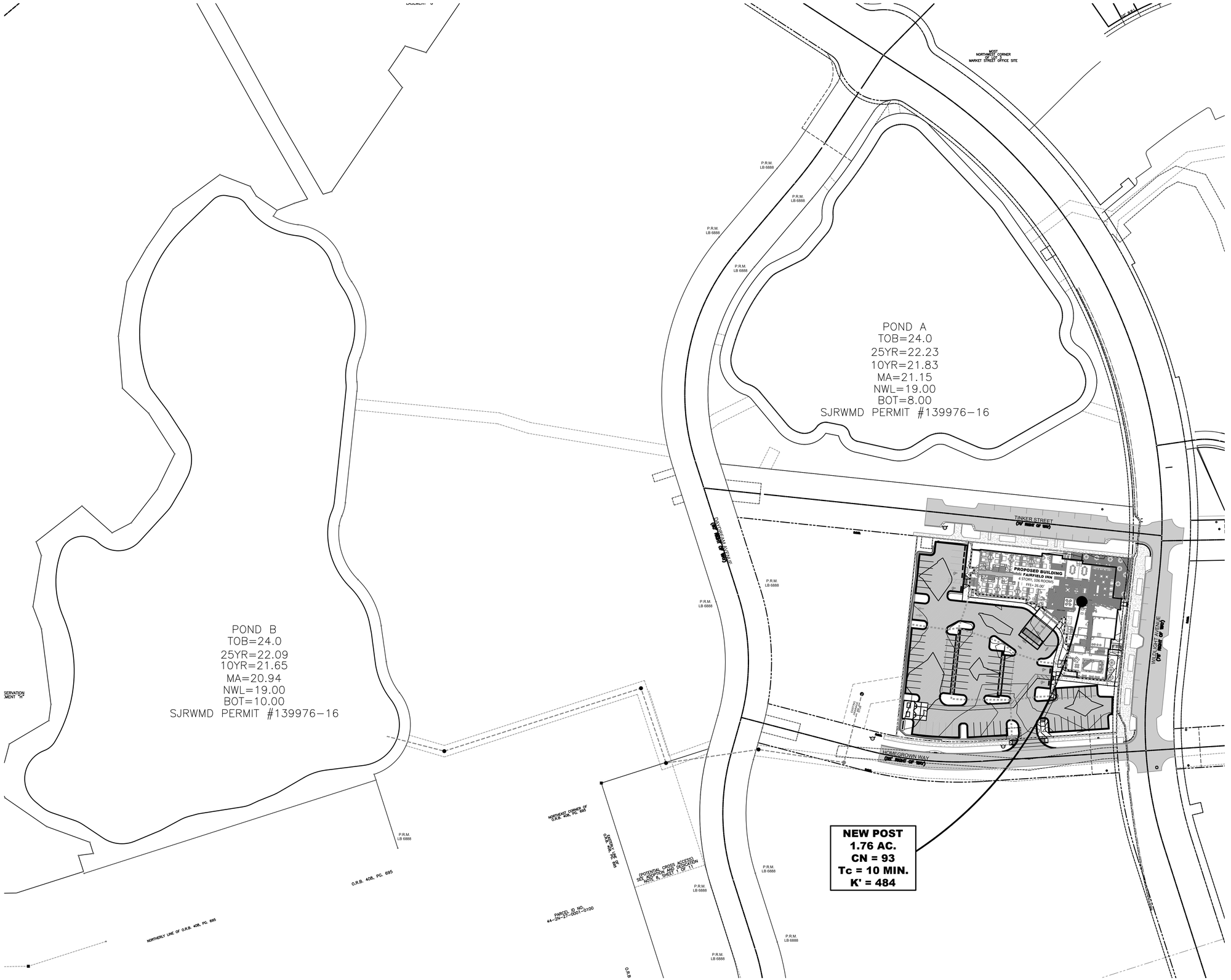
AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-2223 | Fx. (904) 730-2226
Henry A. Verpe Jr. No. 45048

FAIRFIELD INN & SUITES WILDLIGHT

EXISTING CONDITIONS

Florida
Nassau County

Date:	03/2023
Designer:	HAV
Job #:	19-014
Drawn:	GCO
Scale:	1"=20'
Sheet:	3 of 17



No.	Revisions	By
1		
2		
3		
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-3223 | Fx. (904) 730-3226
Henry A. Verpe Jr. No. 48048

FAIRFIELD INN & SUITES WILDLIGHT

MASTER POST DEVLOPMENT PLAN
Florida
Nassau County

Date:	05-21-19
Designer:	HAV
Job #:	19-014
Drawn:	GCO
Scale:	1"=60'
Sheet:	4 of 17

SITE AREAS	
	ACRES/RATIO
GROSS SITE AREA	1.76
TOTAL BUILDING AREA	0.38
TOTAL PARKING AREA	0.88
TOTAL SURFACE AREA OF STORMWATER RETENTION FACILITIES AT TOP OF BANK	0.00 6.27 (OFFSITE)
TOTAL LANDSCAPE AREAS AND BUFFERS	0.50
FLOOR AREA RATIO	21%
IMPERVIOUS SURFACE RATIO	71.6%
LANDSCAPE AND BUFFER RATIO	28.4%

BUILDING AREA:

SQUARE FOOTAGE BY FLOOR:
1ST FLOOR = 16,687 SF
2ND FLOOR = 15,764 SF
3RD FLOOR = 15,764 SF
4TH FLOOR = 15,764 SF

GROSS SQUARE FOOTAGE = 63,979 SF

PARKING CALCULATIONS:

HOTEL:
1 SPACE FOR EACH ROOM:
106 ROOMS= 106 SPACES
1:2 EMPLOYEES:
10 EMPLOYEES (PEAK)/ 2= 5 SPACES

111 TOTAL SPACES REQUIRED

HANDICAP:
4 REQUIRED
83 STANDARD SPACES (62 ON-SITE, 24 OFF-SITE)
24 COMPACT SPACES
4 HANDICAP SPACES

111 TOTAL SPACES TOTAL PROVIDED

LEGEND

EASEMENT
R.O.W.
BOUNDARY

BUILDING SETBACKS
FRONT: 0 FEET MINIMUM, 15 FEET MAXIMUM
SIDE YARD: 0 FEET
REAR YARD: 5 FEET

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD DISTANCE
C283	2°01'52"	677.00'	24.00'	12.00'	N 5°17'23" E	24.00'
C359	7°16'28"	585.00'	74.27'	37.19'	S 2°40'05" W	74.22'
C409	42°38'22"	20.00'	14.88'	7.81'	N 35°41'42" W	14.54'

GRAPHIC SCALE
0 20 30 40
1" = 20'

No.	Revisions	By
1		
2		
3		
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 00008161
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-3223 | Fx (904) 730-3226
Henry A. Verpe Jr. No. 45048

FAIRFIELD INN & SUITES WILDLIGHT

HORIZONTAL CONTROL PLAN
Florida
Nassau County

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale: 1"=20'
Sheet: 5 of 17

MAINTAIN A MAXIMUM SIDEWALK SLOPE OF 2%

ANY CONSTRUCTION IN COUNTY RIGHT OF WAY WILL REQUIRE RIGHT OF WAY PERMIT

LEGEND

	EASEMENT
	DRAIN DIVIDE
	BOUNDARY
	R.O.W.
	PR. CONTOURS
26.07 TC 25.57 FS	SPOT EL.
0.85%	FLOW LINE (SLOPE)

TINKER STREET
(70' RIGHT OF WAY)

PROPOSED BUILDING
FAIRFIELD INN
4 STORY, 106 ROOMS
FFE= 26.00'

WILDLIGHT AVENUE
(78' RIGHT OF WAY)

HOMEGROWN WAY
(55' RIGHT OF WAY)

INLET PROTECTION (TYP.) REFER TO SHEET 15 FOR DETAILS

CONSTRUCT FLOWLINE (TYP)

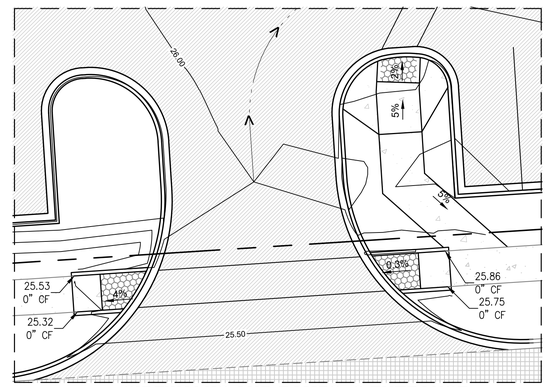
TREATMENT SWALE
MAX DEPTH 1.0' 2:1 SS

EXISTING DRAINAGE STUB

DRAINAGE EASEMENT 30'

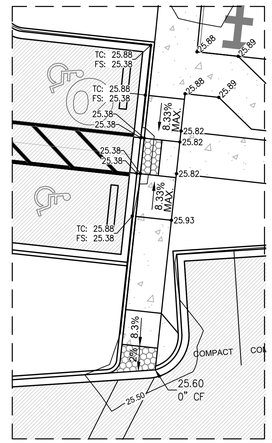
POOL UNDER SEPARATE PERMIT

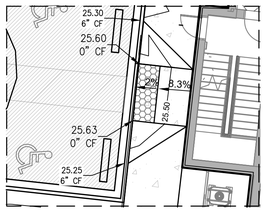
R.O.W.



SIDEWALKS AND RAMPS (@ ENTRANCE)

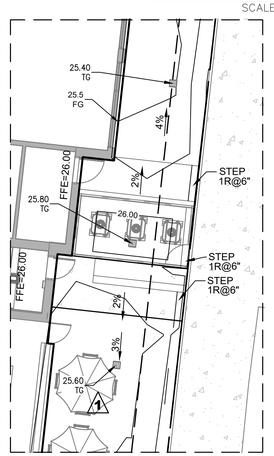
SCALE: 1"=10'

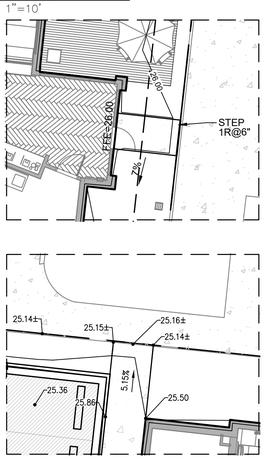




HANDICAP RAMPS (ONSITE)

SCALE: 1"=10'





SIDEWALKS (SITE ACCESS)

SCALE: 1"=10'

N

GRAPHIC SCALE
0 20 30 40
1" = 20'

No.	Revisions	By
1		
2		
3		
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-2223 | Fx. (904) 730-2226
Henry A. Verpe, Jr. No. 43043

FAIRFIELD INN & SUITES WILDLIGHT

GRADING PLAN

Florida
Nassau County

Date:	03/2023
Designer:	HAV
Job #:	19-014
Drawn:	GCO
Scale:	1"=20'
Sheet:	6 of 17

TINKER STREET
(70' RIGHT OF WAY)

R.O.W.

20' SECTION OF 6" PERFORATED UNDERDRAIN, EXTENDING IN BOTH DIRECTIONS ALONG THE FLOW LINE OF THE DRIVE AISLES, SHALL BE INSTALLED AT EACH INLET WITHIN THE PARKING LOT (TYP.). UNDERDRAIN INVERTS SHALL BE 3' BELOW TOP OF GRATE AND SHALL FOLLOW PROPOSED SLOPE OF DRIVE AISLES. CAP SHALL BE INSTALLED AT THE TERMINUS OF THE UNDERDRAIN 3' BELOW GRADE. REFER TO DETAIL SHEET 14.

VARIANCE FOR UTILIZING HDPE PIPE APRVD NOV. 27, 2018 PER NC 99-17, SEC. 11.11.5)

CONNECT AREA DRAINAGE SYSTEM TO EXISTING STORM DRAIN STUB

CONNECT ROOF DRAINAGE SYSTEM TO AREA DRAINAGE SYSTEM. SEE ROOF DRAIN DETAIL SHEET 14

EX-STR
TOP 20.74
E INV 16.40

ST-1
TOP 24.60
N INV 20.85
W INV 19.90
E INV 20.40
S INV 20.40

ST-2
TOP 24.70
S INV 21.20

ST-3
TOP 24.82
E INV 20.80
W INV 20.55
N INV 21.00

ST-4
TOP 24.72
S INV 21.20

ST-5
TOP 24.79
W INV 21.15
N INV 21.15
E INV 21.15

DA= 0.22 AC
DA= 0.53 AC
DA= 0.21 AC
DA= 0.35 AC
DA= 0.23 AC
DA= 0.23 AC

141 LF~15" RCP @ 0.23%
70 LF~15" RCP @ 0.23%
68 LF~18" RCP @ 0.22%
64 LF~24" RCP @ 3.73%
144 LF~15" RCP @ 0.24%
78 LF~ 8" PVC SDR26
67 LF~ 12" PVC SDR26
48 LF~ 8" PVC SDR26
48 LF~ 12" PVC SDR26
39 LF~ 12" PVC SDR26
39 LF~ 8" PVC SDR26
25 LF~ 8" PVC SDR26
25 LF~ 4" ADS
19 LF~ 4" ADS
9 LF~ 4" ADS
6 LF~ 4" ADS
4 LF~ 4" PVC SDR26

3" RD & 3" ORD
SEE ARCHITECTURAL PLANS
3" RD INV 24.65
3" ORD INV 25.90
25 LF~ 4" ADS

4" RD & 3" ORD
SEE ARCHITECTURAL PLANS
4" RD INV 24.65
3" ORD INV 25.90
19 LF~ 4" ADS

4" RD & 3" ORD
SEE ARCHITECTURAL PLANS
4" RD INV 24.25
3" ORD INV 25.50
9 LF~ 4" ADS

4" RD & 3" ORD
SEE ARCHITECTURAL PLANS
4" RD INV 24.25
3" ORD INV 25.50
6 LF~ 4" ADS

3" RD & 3" ORD
SEE ARCHITECTURAL PLANS
3" RD INV 25.75
3" ORD INV 26.00

4" AREA DRAIN
SEE ARCHITECTURAL PLANS
TOP OF GRATE 25.00
INV 23.50

YARD DRAIN
TOP = 25.45
INV = 23.25

YARD DRAIN
TOP = 25.40
INV = 22.85

YARD DRAIN
TOP = 25.50
INV = 23.33

DECK DRAIN
TOP = 25.00
INV = 24.50

YARD DRAIN
TOP = 25.92
INV = 22.20

YARD DRAIN
TOP = 25.90
INV = 21.95

YARD DRAIN
TOP = 25.82
INV = 21.85

YARD DRAIN
TOP = 25.80
INV = 21.72

YARD DRAIN
TOP = 25.60
INV = 21.62

YARD DRAIN
TOP = 25.32
INV = 21.40

CONNECT TO SD
INV = 22.88

EXISTING SANITARY LINE

EXISTING DRAINAGE STUB

DRAINAGE EASEMENT

12' ESMT

WILDLIGHT AVENUE
(78' RIGHT OF WAY)

HOMEGROWN WAY
(55' RIGHT OF WAY)

R.O.W.

R.O.W.

INSPECT ALL SLOPES AND EMBANKMENTS AND REPLANT AREAS WITH BARE SOIL OR SPARSE GROWTH. ARMOR EROSION AREAS WITH RIPRAP OR DIVERT THE RUNOFF TO A STABLE AREA. INSPECT AND REPAIR DOWN-SLOPE OF ALL SPREADERS AND TURN-OUTS FOR EROSION. MOW VEGETATION AS SPECIFIED FOR THE AREA.
REMOVE OBSTRUCTION, SEDIMENTS & DEBRIS FROM DITCHS, SWALES AND OTHER OPEN CHANNES. REPAIR ANY EROSION OF THE DITCH LINING. MOW VEGETATED DITCHES NO SHORTER THAN SIZ INCHES AND NO MORE THAN TWICE A YEAR. REMOVE WOODY VEGETATION GROWING THROUGH RIPRAP. REPAIR ANY SLUMPING SIDE SLOPES. REPAIR RIPRAP WHERE UNDERLYING FILTER FABRIC OR GRAVEL IS SHOWING OR IF STONES HAVE DISLODGED.
REMOVE ACCUMULATED SEDIMENTS AND DEBRIS AT THE INLET, OUTLET, OR WITHIN THE CONDUIT. REMOVE ANY OBSTRUCTION TO FLOW. REPAIR ANY EROSION DAMAGE AT THE CULVERT'S INLET AND OUTLET. REMOVE SEDIMENT AND DEBRIS FRO THE BOTTOM OF THE BASIN AND INLET GRATES.
REMOVE FLOATING DEBRIS AND HYDROCARBONS (USING OIL ABSORPTIVE PADS) FROM ANY STRUCTURE. CLEAR AND REMOVE ACCUMULATED WINTER SAND IN PARKING LOTS AND ALONG ROADWAYS.
SWEEP PAVEMENT TO REMOVE SEDIMENT AND SAND. GRADE ROAD SHOULDERS AND REMOVE ACCUMULATED WINTER SAND. GRADE GRAVEL ROADS AND GRAVEL SHOULDERS. ENSURE THAT STORMWATER RUNOFF IS NOT IMPEDED BY FALSE DITCHES OF SEDIMENT IN THE SHOULDER. CLEAN OUT THE SEDIMENT WITHIN WATER BARS OR OPEN-TOP CULVERTS.

INSPECT BUFFERS FOR EVIDENCE OF EROSION, CONCENTRATED FLOW, OR ENCHROACHEMENT BY DEVELOPMENT. MANSAGE THE BUFFER'S VEGETATION WITH THE REQUIREMENTS IN ANY DEED RESTRICTIONS. REPAIR ANY SIGN OF EROSION WITHIN A BUFFER. INSPECT AND REPAIR DOWN-SLOPE OF ALL SPREADERS AND TURN-OUTS FOR EROSION. INSTALL LEVEL SPREADERS OR DITCH TURN-OUTS AS NEEDED FOR EVEN DISTRIBUTION OF FLOW. CLEAN OUT ANY ACCUMELATION OF SEDIMENT WITHIN THE SPREADER BYS OR TURNOUT POOLS. MOW NON-WOODED BUFFERS NO SHORTER THAN SIX INCHES AND NO MORE THAN TWICE A YEAR.

INSPECT THE EMBANKMENTS FOR SETTLEMENT, SLOPE EROSION, PIPING AND SLUMPING. MOW THE EMBANKMENT TO CONTROL WOODY VEGETATION. INSPECT THE OUTLET STRUCTURE FOR BROKEN SEALS, OBSTRUCTED ORIFICES, AND PLUGGED TRASH RACKS. REMOVE AND DISPOSE OF SEDIMENTS AND DEBRIS WITHIN THE CONTROL STRUCTURE. REPAIR AND DAMAGE TO TRASH RACKS OF DEBRIS GUARDS. REPLACE ANY DISLOGED STONE IN RIPRAP SPILLWAYS. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENTS WITHIN THE IMPOUNDMENT AND FOREBAY.
CLEAN THE BASIN OF DEBRIS, SEDIMENT, AND HYDROCARBONS. PROVIDE FOR THE REMOVAL AND DISPOSAL AND ACCUMULATED SEDIMENTS WITHIN THE BASIN. RENEW THE BASIN IF IT FAILS TO DRAIN WITHIN 72 HOURS AFTER A ONE INCH RAINFALL EVENT. TILL, SEED, AND MULCH THE BASIN IF VEGETATAION IS SPARSE. REPAIR RIPRAP WHERE UNDERLYING FILTER FABRIC OF GRAVEL IS SHOWING, OR WHERE STONES HAVE DISLOGED.
CONTRACT WITH A THIRD-PARTY APPROVED BY THE MANUFACTURER FOR INSPECTION AND MAINTENANCE. FOLLOW THE MANUFACTURER'S PLAN FOR CLEANING OF DEVICES.
CONTACT THE DEPARTMENT FOR APPROPRIATE INSPECTION AND MAINTENANCE REQUIREMENTS FOR OTHER DRAINAGE CONTROL AND RUNOFF TREATMENT MEASURES.

LEGEND

	EASEMENT
	DRAIN DIVIDE
	BOUNDARY
	R.O.W.
	PR. CONTOURS
	STORM PIPE

N

GRAPHIC SCALE
0 20 30 40
1" = 20'

No.	Revisions	By
1		
2		
3		
4		

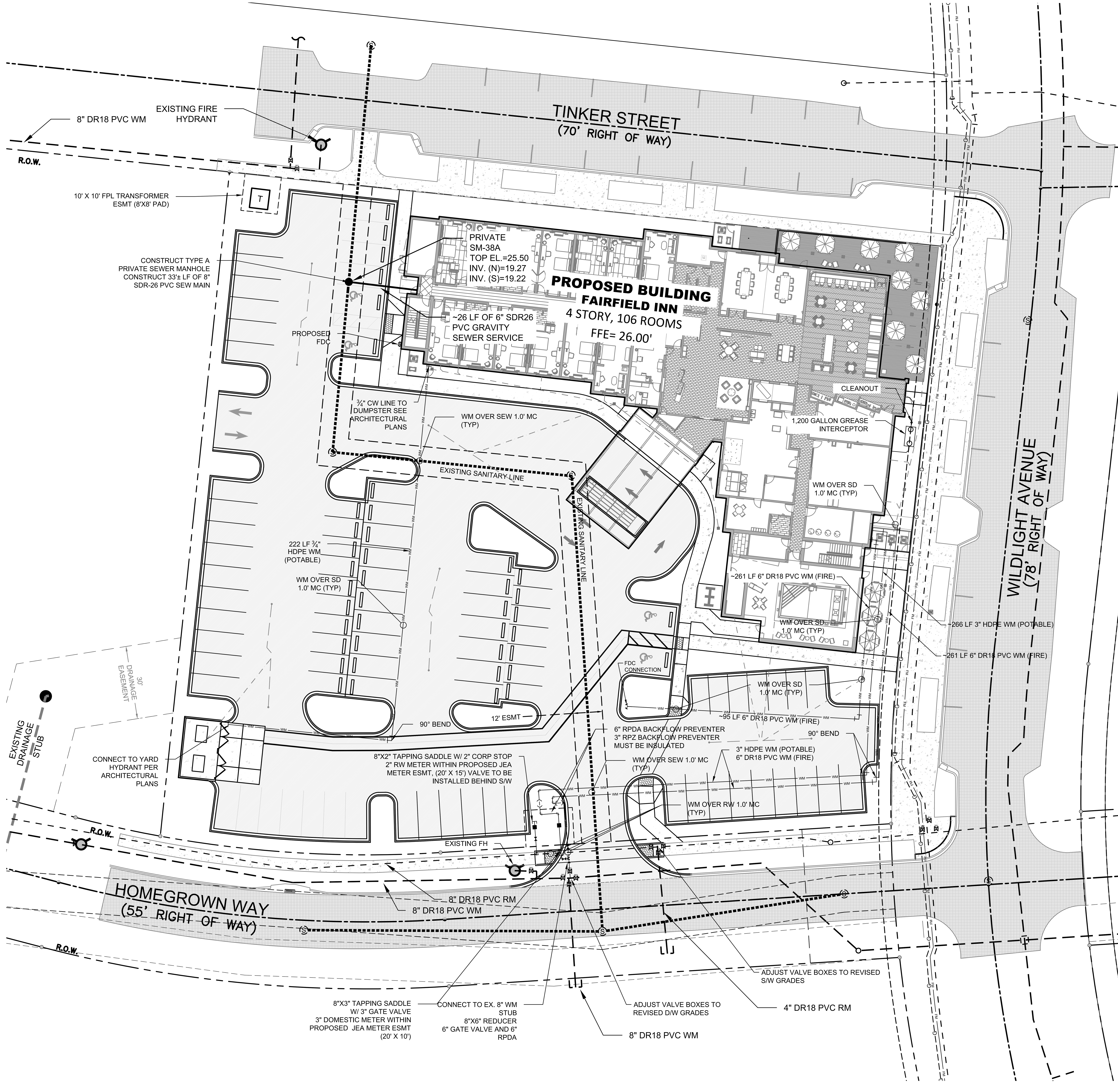
AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-2223 | Fx. (904) 730-2226
Henry A. Verpe Jr. No. 45043

FAIRFIELD INN & SUITES WILDLIGHT

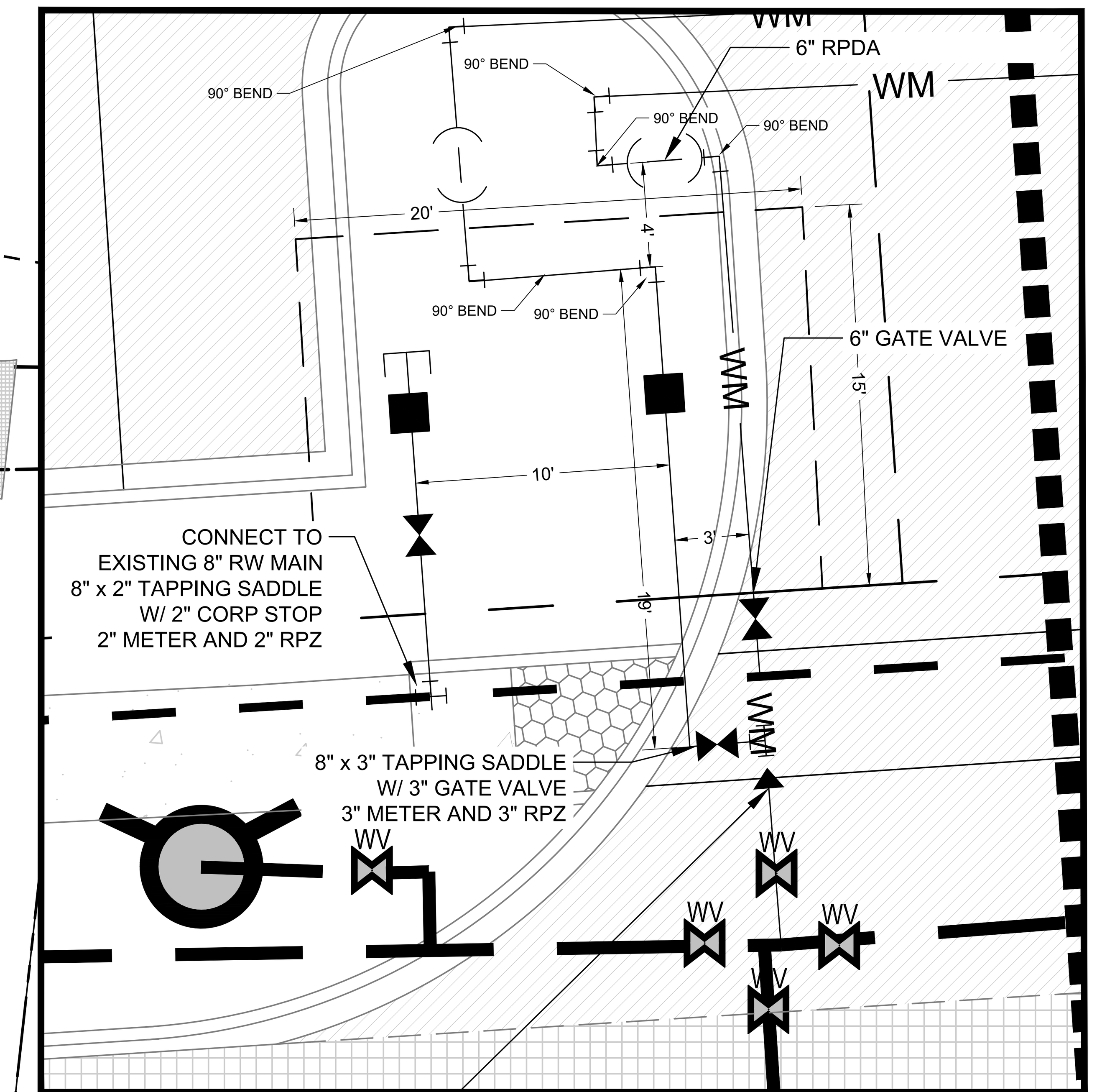
STORM DRAIN PLAN

Florida
Nassau County

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale: 1"=20'
Sheet: 7 of 17



TINKER STREET
(70' RIGHT OF WAY)
8" DR18 PVC WM
EXISTING FIRE HYDRANT
R.O.W.
10' X 10' FPL TRANSFORMER ESMT (8'X8' PAD)
CONSTRUCT TYPE A PRIVATE SEWER MANHOLE CONSTRUCT 33± LF OF 8" SDR-26 PVC SEW MAIN
PRIVATE SM-38A TOP EL.=25.50 INV. (N)=19.27 INV. (S)=19.22
PROPOSED BUILDING
FAIRFIELD INN
4 STORY, 106 ROOMS
FFE= 26.00'
~26 LF OF 6" SDR26 PVC GRAVITY SEWER SERVICE
PROPOSED FDC
¾" CW LINE TO DUMPSTER SEE ARCHITECTURAL PLANS
WM OVER SEW 1.0' MC (TYP)
EXISTING SANITARY LINE
CLEANOUT
1,200 GALLON GREASE INTERCEPTOR
WM OVER SD 1.0' MC (TYP)
WILDLIGHT AVENUE
(78' RIGHT OF WAY)
222 LF ¾" HDPE WM (POTABLE)
WM OVER SD 1.0' MC (TYP)
~261 LF 6" DR18 PVC WM (FIRE)
WM OVER SD 1.0' MC (TYP)
~266 LF 3" HDPE WM (POTABLE)
~261 LF 6" DR18 PVC WM (FIRE)
30' DRAINAGE EASEMENT
FDC CONNECTION
WM OVER SD 1.0' MC (TYP)
~95 LF 6" DR18 PVC WM (FIRE)
90° BEND
12' ESMT
EXISTING DRAINAGE STUB
CONNECT TO YARD HYDRANT PER ARCHITECTURAL PLANS
6" RPDA BACKFLOW PREVENTER 3" RPZ BACKFLOW PREVENTER MUST BE INSULATED
3" HDPE WM (POTABLE) 6" DR18 PVC WM (FIRE)
90° BEND
8"X2" TAPPING SADDLE W/ 2" CORP STOP 2" RW METER WITHIN PROPOSED JEA METER ESMT, (20' X 15') VALVE TO BE INSTALLED BEHIND S/W
WM OVER SEW 1.0' MC (TYP)
WM OVER RW 1.0' MC (TYP)
EXISTING FH
HOMEGROWN WAY
(55' RIGHT OF WAY)
8" DR18 PVC RM
8" DR18 PVC WM
ADJUST VALVE BOXES TO REVISED S/W GRADES
8"X3" TAPPING SADDLE W/ 3" GATE VALVE 3" DOMESTIC METER WITHIN PROPOSED JEA METER ESMT (20' X 10')
CONNECT TO EX. 8" WM STUB 8"X6" REDUCER 6" GATE VALVE AND 6" RPDA
ADJUST VALVE BOXES TO REVISED D/W GRADES
4" DR18 PVC RM
8" DR18 PVC WM
EXISTING SANITARY LINE



CONNECT TO EXISTING 8" STUB 8" x 6" RED

INSET
SCALE: 1" = 5'

LEGEND

— — —	EASEMENT
— · — · —	BOUNDARY
— — —	R.O.W.
— — —	EX. WATER / REUSE
———	PR. WATER / REUSE
- - - -	EX. SEWER
———	PR. SEWER
(symbol)	EX. FIRE HYDRANT
WV	EX. WATER / RW VALVE
(symbol)	PR. VALVE
(–)	PR. BFP
■	PR. METER

N

GRAPHIC SCALE
0 20 30 40
1" = 20'

No.	Revisions	By
1		
2		
3		
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 00008161
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE, FLORIDA 32217
Ph. (904) 730-3223 | Fx. (904) 730-3226
Henry A. Vorpe Jr. No. 49049

FAIRFIELD INN & SUITES WILDLIGHT

WATER AND SEWER PLAN

Nassau County Florida

Date:	03/2023
Designer:	HAV
Job #:	19-014
Drawn:	GCO
Scale:	1"=20'
Sheet:	8 of 17

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY

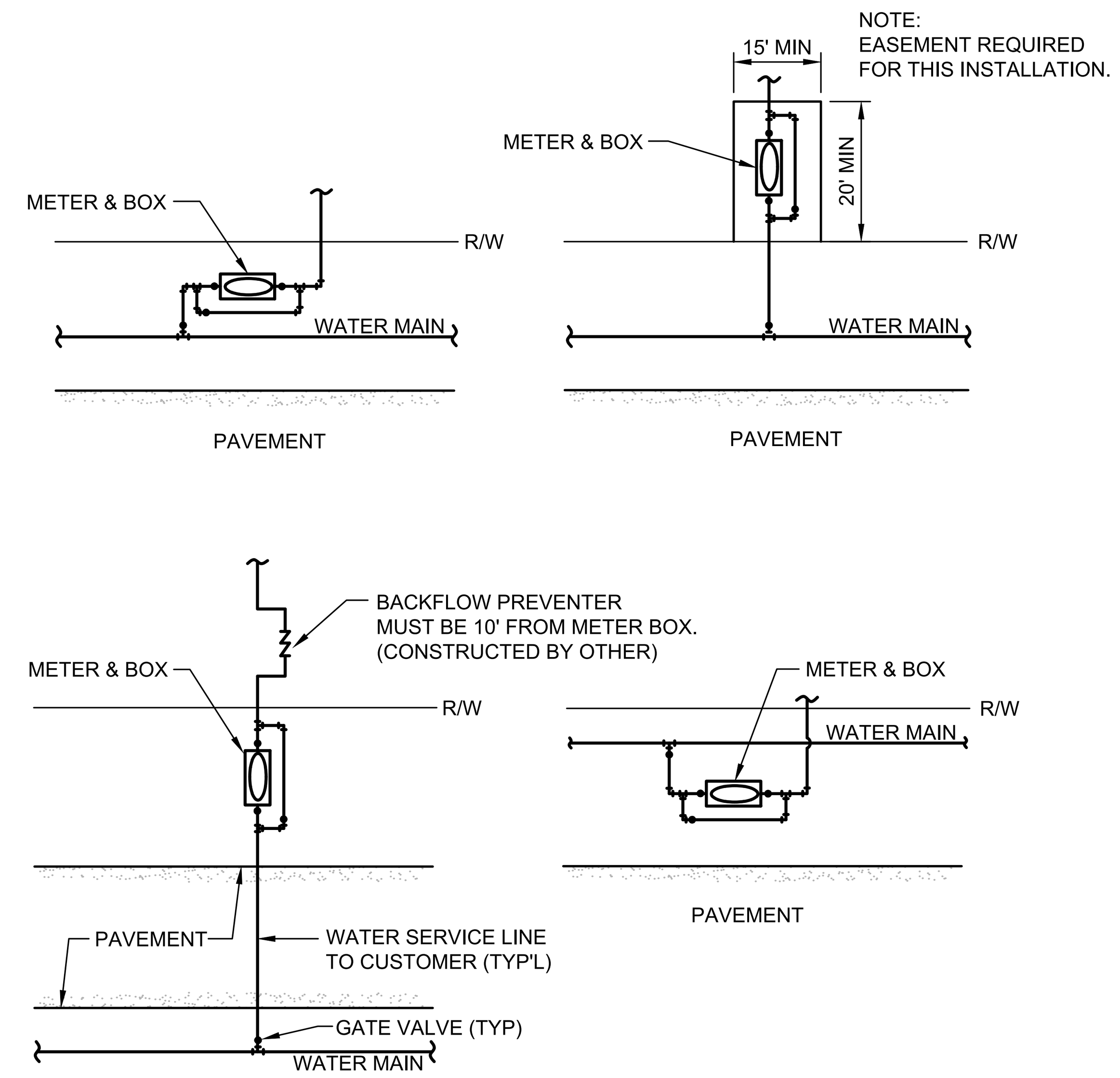
CONFLICTING UTILITY	POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (SIGNS, POLES, ETC.)	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

NOTES:

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

JANUARY 2023 — PLATE W-10

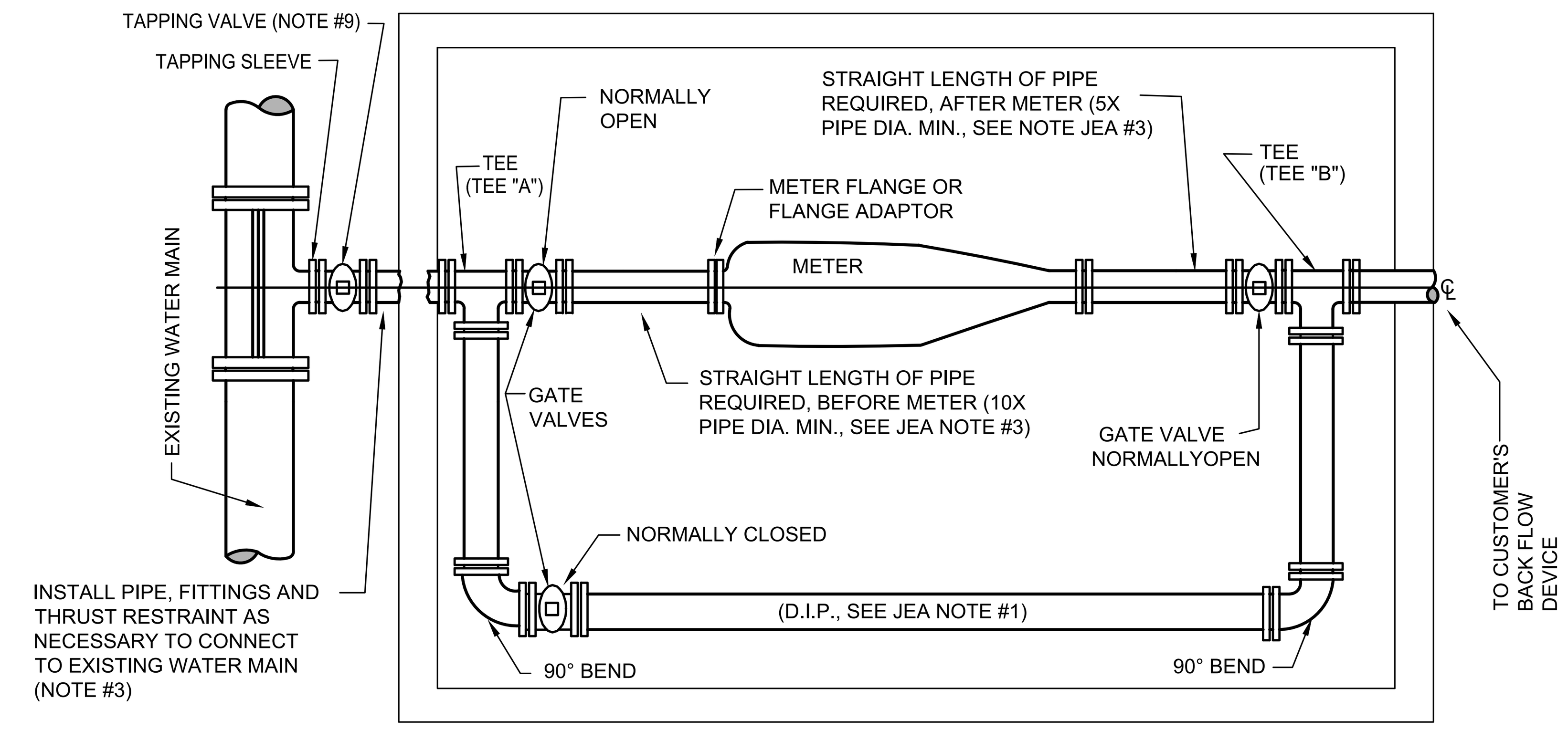


NOTES:

1. THE SKETCHES ABOVE ARE SUGGESTIONS FOR SOME TYPICAL LARGE METER (3" AND LARGE SIZE METER) INSTALLATIONS. ACTUAL INSTALLATIONS WILL VARY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. FOR OTHER LOCATION LIMITATIONS SEE PLATE NOS. W-10 & W-11.
2. THE WATER METER BOX SHALL BE CO-POLYMER MATERIAL. IF THE BOX IS LOCATED IN A DRIVEWAY OR ROADWAY, THE BOX SHALL BE CONCRETE WITH HEAVY-DUTY ALL GALVANIZED (WITH REINFORCED GALV.) TOP. BOXES LOCATED IN DRIVEWAYS OR ROADWAYS MUST BE APPROVED BY JEA, PRIOR TO CONSTRUCTION.
3. FOR TYPICAL BOX INSTALLATION DETAILS SEE PLATE NO. W-6 THRU W-8.
4. FOR TYPICAL MANIFOLD INSTALLATION, SEE PLATE NO. W-9.

LARGE WATER METER INSTALLATIONS

JANUARY 2023 — PLATE W-5



TO BE INSTALLED BY JEA (SEE NOTE #1)
MIN. LAYING LENGTH REQUIRED
3" & 4" METERS...........14'
6" & 8" METERS...........20'
10" METERS..................24'
(D.I.P. REQUIRED, SEE JEA NOTES #1 & #2)

CONTRACTOR NOTES:

1. FOR "PRE-PAVE" INSTALLATIONS, THE CONTRACTOR SHALL CONSTRUCT TAP AND WATER MAIN PIPING (PVC OR D.I.P.) BETWEEN TAPPING VALVE AND R/W PROVIDING AN UN-INSTALLED (OPEN) PIPE SECTION WITH A "MINIMUM LAYING LENGTH" AS SHOWN ABOVE FOR THE METER BOX AND BY PASS PIPING. THE FINISHED GRADE GRADE AT THE PROPOSED METER VAULT SHALL BE FLAT. CONTRACTOR SHALL PROVIDE METER BOX. JEA WILL INSTALL METER BOX AND METER ASSEMBLY (INCLUDING METER, THREE (3) GATE VALVES AND ASSOCIATED DUCTILE IRON PIPE ALL THE SAME SIZE).
2. FOR "FULL-TAP" METER ASSEMBLY, JEA WILL PROVIDE AND INSTALL THE TAP, METER BOX AND ALL OF THE ABOVE PIPING WITHIN THE R/W.
3. FOR BOX DETAILS SEE PLATES W-7 AND W-8.
4. ALL POTABLE PIPE AND FITTINGS TO BE SAME SIZE AS METER. IF UTILIZING HDPE PIPE.
5. MECHANICAL RETAINER GLAND RESTRAINTS OR MEGA LUGS SHALL BE UTILIZED TO RESTRAIN ALL JOINTS. THE USE OF THRUST BLOCKS, TIE RODS AND/OR BELL/ROD RESTRAINTS SHALL ONLY BE USED IF SPECIFICALLY APPROVE BY JEA MANAGEMENT.
6. PIPE FROM TAP TO R/W LINE SHALL BE RESTRAINED.
7. MAXIMUM COVER OF LARGE WATER METERS SHALL BE 36" (FROM TOP OF PIPE TO GRADE).
8. LOCATING WIRING REQUIRED FROM EXISTING WATER MAIN TO METER BOX. SEE PLATE W-44.
9. FOR METERS LARGER THAN 10" SIZE, PLEASE CONTACT JEA METER SHOP FOR ADDITIONAL REQUIREMENTS.
10. EACH SERVICE (FIRE MAIN, POTABLE WATER, ETC.) SHALL INCLUDE A SEPARATE ISOLATION VALVE (TAPPING VALVE OR GATE VALVE, BELOW GROUND TYPE) LOCATED PRIOR TO TEE "A". ALSO, UN-METERED FIRE MAIN SERVICES SHALL INCLUDE A SEPARATE ISOLATION VALVE (TAPPING VALVE OR GATE VALVE, BELOW GROUND TYPE).
11. FOR TYPICAL MANIFOLD INSTALLATION, SEE PLATE NO. W-9.
12. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

JEA NOTES:

1. ALL POTABLE PIPING BETWEEN TEE FITTINGS (TEE "A" AND TEE "B") SHALL BE DR18 OR CLASS 150 D.I.P., INCLUDING BY-PASS PIPING.
2. ALL POTABLE VALVES AND FITTINGS TO BE DUCTILE IRON RESTRAINED JOINT.
3. MINIMUM LENGTH OF TEN (10) PIPE DIAMETERS OF STRAIGHT PIPE TO BE INSTALLED ON INLET SIDE OF METER AND FIVE (5) PIPE DIAMETERS OF STRAIGHT PIPE TO BE INSTALLED ON OUTLET SIDE OF METER.
4. ALL METER INSTALLATIONS REQUIRE A TEST TEE TO BE INSTALLED BETWEEN THE METER AND VALVE ON CONSUMER SIDE OF METER.

WATER METER INSTALLATION DETAILS 3" - 20" METERS

JANUARY 2023 — PLATE W-6

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

1. IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2023 — PLATE W-11

WATER METER BOX DIMENSIONS (3" - 20" METERS)

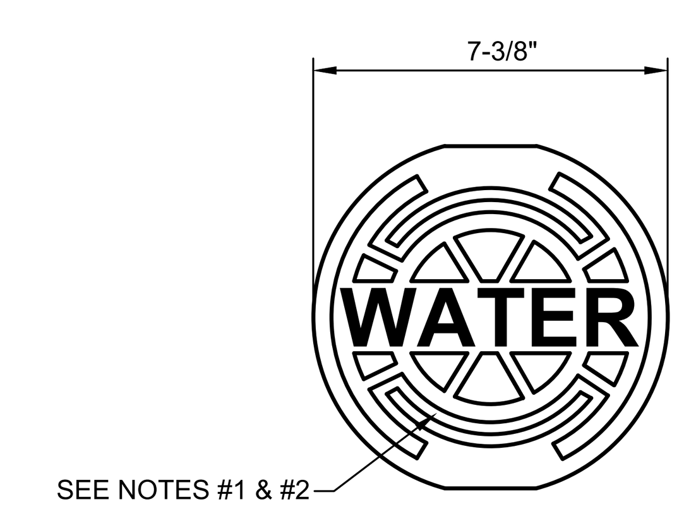
Meter Description		Polymer Concrete Box Non-Traffic Rated (Note 1)
Type	SIZE	Width x Length x Depth (O.D.)
C-2 or T-2 Omni Style	3" 4" 6"	36" x 60" x 48" 36" x 60" x 48" 48" x 72" x 48"
Fire Meter	4" 6" 8" 10"	48" x 72" x 48" 48" x 96" x 48" 48" x 96" x 48" 48" x 96" x 48"
* Includes 6" Thick Bottom		

NOTES:

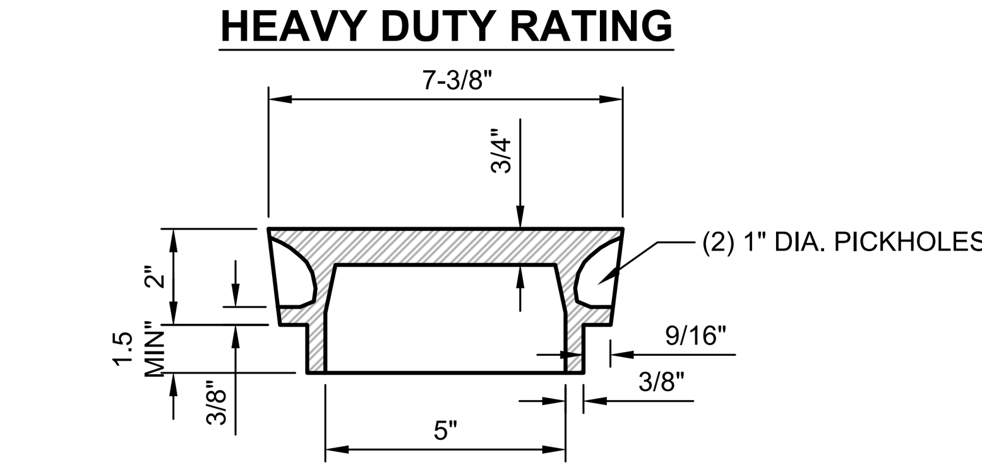
1. POLYMER CONCRETE BOXES SHALL ONLY BE PROVIDED IN NON-TRAFFIC (INCLUDING NOT IN DRIVEWAYS) LOCATIONS. FRP/ POLYMER CONCRETE METER BOX & COVER (BY ARMOURCAST PRODUCTS COMPANY): BOX AND THE EXTENSION IF REQUIRED, SHALL BE MANUFACTURED USING FIBERGLASS REINFORCED MATERIALS AND POLYMER CONCRETE. THE BODY OF THE BOX WITH NO BOTTOM SHALL BE MANUFACTURED USING FIBERGLASS REINFORCED MATERIALS, COMPRISED FROM POLYESTER RESINS AND FIBERGLASS MATTING. THE TOP COLLAR AND COVER SHALL BE MANUFACTURED FROM POURED POLYMER CONCRETE AND SHALL BE CONCRETE GREY COLOR. DURING THE MANUFACTURING PROCESS AND WHILE THE POLYMER CONCRETE IS IN A SOFTENED STATE, THE BODY SHALL BE MARRIED TO THE COLLAR BY INSERTING IT INTO THE COLLAR'S FORM. THE BOX AND COVER SHALL HAVE A LOAD RATING OF A8 (ASTM C857). THE BOX SHALL CONFORM TO THESE DESIGN FUNCTIONS AND DIMENSIONAL REQUIREMENTS AND INCLUDE LIFTING STUDS. BOX EXTENSIONS SHALL BE PROVIDED FOR ALL DEEP INSTALLATIONS. THE BOX SHALL BE A 2-PIECE ASSEMBLY INCLUDING MOLDED/RAISED JEA LOGO (LOGO ON BOTH PIECES). RECESSED HOLES (APPROXIMATELY 2" DIAMETER) DESIGNED TO FIT A SCHLUMBERGER ANTENNA USED WITH A METER INTERFACE UNIT (MIU). TWO COVER HOLD-DOWN BOLTS (1/2 - 13NC S.S. PENTAHEAD BOLTS). TORSION ASSISTED COMPONENTS AND TEXTURED NON-SKID SURFACE. A 2" PVC PLUG SHALL BE PROVIDED FOR EACH 2"-HOLE WHICH CAN BE COMPRESSED (TIGHT FIT) INTO THE 2" HOLE FOR TEMPORARY CLOSURE OF THE HOLE.
2. FOR WATER METERS LARGER THAN 6" OR FIRE MAINS LARGER THAN 10" SIZE, PLEASE CONTACT JEA METER SHOP FOR CONSTRUCTION REQUIREMENTS.

WATER METER BOX DIMENSIONS 3" - 20" METERS

JANUARY 2023 — PLATE W-8



HEAVY DUTY RATING



NOTES:

1. PAINT TOP OF THE COVER WITH ENAMEL PAINT (BLUE COLOR) FOR WATER.
2. FOR "REUSE" PAINT TOP PANTONE PURPLE.
3. LID WEIGHT: APPROX. 12 LBS.

WATER SYSTEM VALVE BOX COVER

JANUARY 2023 — PLATE W-16

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

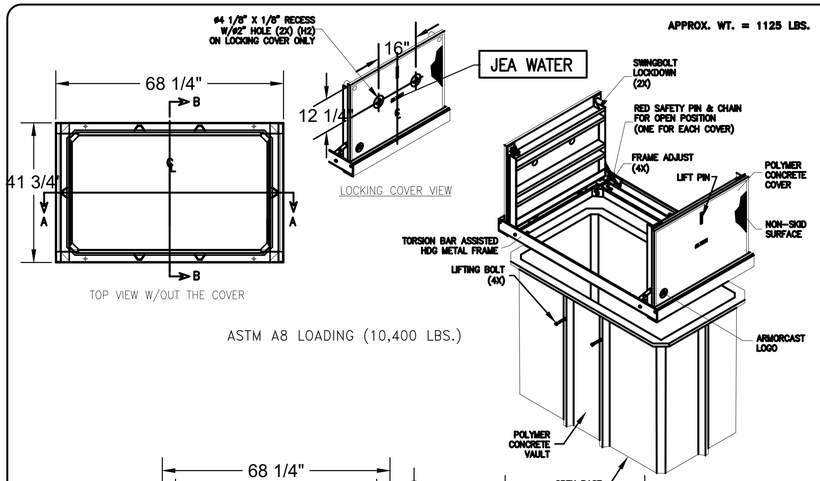
AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 00008161
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE, FLORIDA 32217
Ph. (904) 730-3223 | Fx. (904) 730-3226
Henry A. Vorpe Jr. No. 49049

FAIRFIELD INN & SUITES WILDLIGHT

WATER DETAILS

Nassau County, Florida

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:

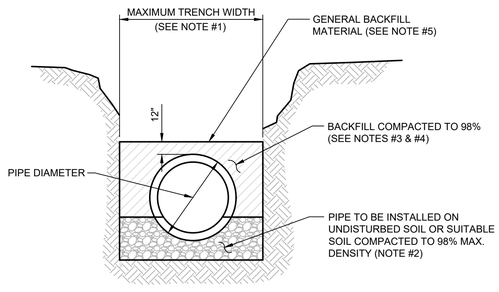


NOTES:

1. THE DIMENSIONS SHOWN ARE FOR A STANDARD 36" WIDE BY 60" LONG BY 48" DEEP BOX. DIMENSIONS VARY ACCORDING TO METER SIZE & TYPE. SEE PLATE W-8. ALL DIMENSIONS ARE SHOWN IN INCHES.
2. CONCRETE OR ASPHALT SLOPE: 1/8 IN./FT.
3. GRADE TO SLOPE AWAY FROM METER BOX.
4. DO NOT INSTALL METER BOX IN AREA SUBJECTED TO FLOODING.
5. LOCATING WIRING REQUIRED. SEE DETAIL W-44.
6. THE LARGE BOXES REQUIRE TWO 2" RECESSED HOLES TO FIT ANTENNA.
7. A 4" THICK CONCRETE BOTTOM SHALL BE CONSTRUCTED DURING THE BOX INSTALLATION.

36" x 60" x 48" CO-POLYMER WATER METER BOX 3" & 4" METERS

JANUARY 2023 PLATE W-7



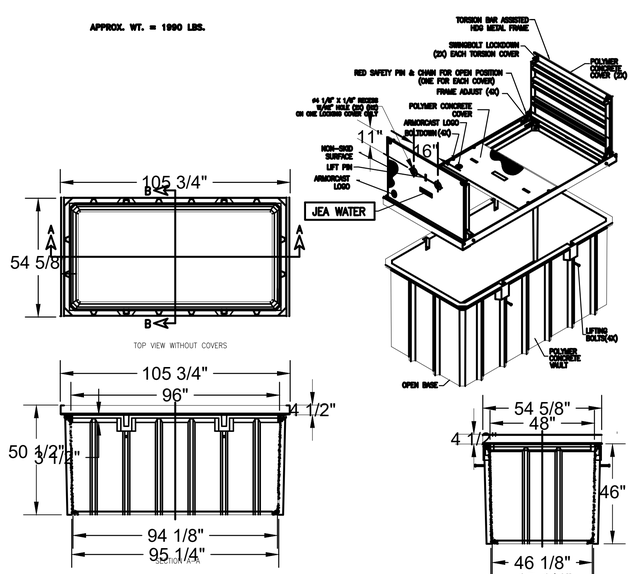
TYPICAL TRENCH

NOTES:

1. TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
2. BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
3. BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
4. BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D1557.
5. SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2023 IN CITY RIGHT -OF-WAY PLATE W-42

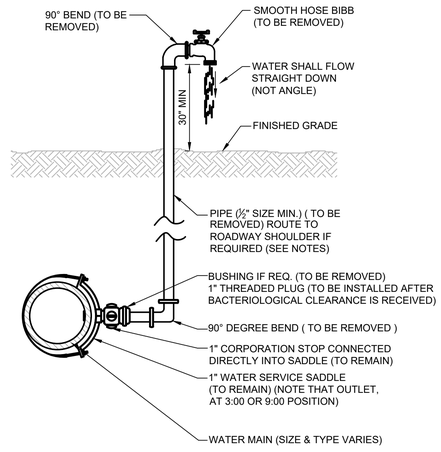


NOTES:

1. THE DIMENSIONS SHOWN ARE FOR A STANDARD 48" WIDE BY 96" LONG BY 48" DEEP BOX. DIMENSIONS VARY ACCORDING TO METER SIZE & TYPE. SEE PLATE W-8. ALL DIMENSIONS ARE SHOWN IN INCHES.
2. CONCRETE OR ASPHALT SLOPE: 1/8 IN./FT.
3. GRADE TO SLOPE AWAY FROM METER BOX.
4. DO NOT INSTALL METER BOX IN AREA SUBJECTED TO FLOODING.
5. LOCATING WIRING REQUIRED. SEE DETAIL W-44.
6. THE LARGE BOXES REQUIRE TWO 2" RECESSED HOLES TO FIT ANTENNA.
7. A 4" THICK CONCRETE BOTTOM SHALL BE CONSTRUCTED DURING THE BOX INSTALLATION.

48" x 96" x 48" CO-POLYMER WATER METER BOX 6" - 20" METERS

JANUARY 2023 PLATE W-7B

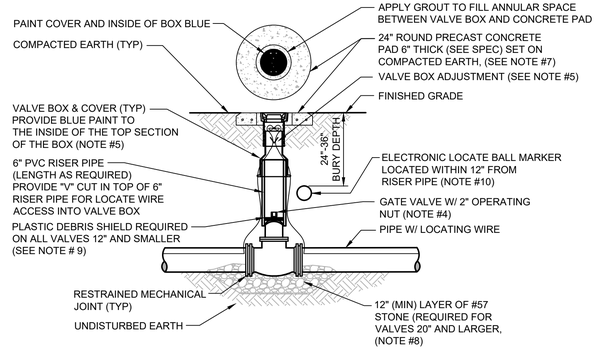


NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP

JANUARY 2023 PLATE W-25

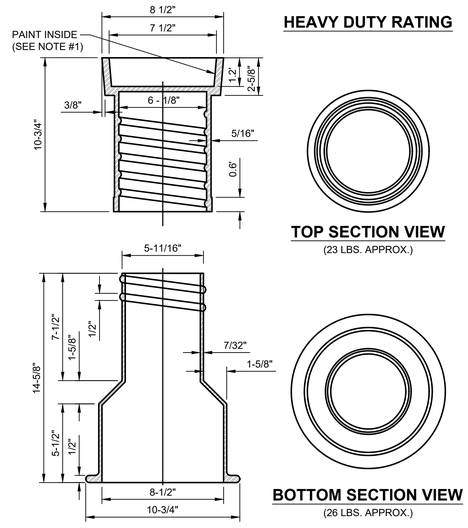


NOTES:

1. FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
2. LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAILW-44).
3. A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/ADJACENT/(ASPHALT IF NO CURB) TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED BLUE WATER/PURPLE RECLAIMED.
4. IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
6. BRASS IDENTIFICATION TAG INDICATING "WATER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A ¾" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
7. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
8. GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO ⅓ THE OVERALL HEIGHT OF THE VALVE.
9. FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
10. ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1403XR FOR WATER AND 1408XR FOR RECLAIMED WATER).

WATER VALVE INSTALLATION DETAIL

JANUARY 2023 PLATE W-18



NOTES:

1. PAINT THE INSIDE OF THE TOP SECTION OF THE BOX WITH APPLICABLE COLOR (BLUE OR PURPLE)
2. HEAVY DUTY RATING (TOTAL WEIGHT APPROX. 50 LBS.).
3. REFERENCE SECTION 351, PARAGRAPH X.2.

WATER SYSTEM VALVE BOX

JANUARY 2023 PLATE W-17

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-2223 | Fx. (904) 730-2226
Henry A. Verpe, Jr. No. 43043

FAIRFIELD INN & SUITES WILDLIGHT

Florida
Nassau County

WATER DETAILS

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:
Sheet: 10 of 17

LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)	L (FT.)
4	21	9	5	3	17	3	47
6	30	13	6	3	23	4	66
8	38	16	8	4	30	6	86
10	45	19	9	5	36	7	103
12	53	22	11	6	43	8	121
14	61	26	13	6	50	9	140
16	66	28	14	7	55	10	154
18	73	30	15	8	60	11	170
20	79	33	16	8	66	12	186
24	79	33	16	8	77	15	185
30	93	39	19	10	97	17	222
36	106	39	21	11	107	20	257
42	117	49	24	12	120	24	289
48	144	53	26	13	133	26	321

REDUCERS	
SIZE (IN.)	L (FT.)
6x4	34
8x6	36
8x4	62
10x8	35
10x6	63
12x10	36
12x8	64
16x12	66
16x10	92
20x18	35
20x16	66
20x12	117
24x20	56
24x18	80
24x16	101
30x24	78
30x20	121
30x30	78
36x24	141
42x36	75
42x30	140
48x42	75
48x36	139

TEES SEE NOTE 5		
RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6 4 < LESS	10 F.O.
8	8 6 < LESS	29 F.O.
10	10 8 6 < LESS	45 13 F.O.
12	12 10 8 < LESS	62 32 F.O.
16	16 12 10 10 < LESS	94 39 5 F.O.
20	20 16 12 10 < LESS	125 76 14 F.O.
24	24 20 16 12 < LESS	124 84 36 F.O.
30	30 24 20 16 16 < LESS	159 104 60 5 F.O.
36	36 30 24 20 16 16 < LESS	192 142 83 33 F.O.
42	42 36 30 24 20 16 < LESS	223 178 124 59 5 F.O.
48	48 42 36 30 24 20 < LESS	253 209 162 104 34 F.O.

F.O. = FITTING ONLY

PVC PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
7. THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2023 PLATE W-31A

LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)	L (FT.)
4	17	7	4	2	11	3	30
6	24	15	5	3	15	4	42
8	31	13	6	3	20	5	55
10	36	15	8	4	23	6	65
12	42	18	9	5	27	7	77
14	48	20	10	5	31	7	87
16	53	22	11	6	35	8	97
18	58	24	12	6	39	9	107
20	63	27	13	6	42	10	118
24	63	27	13	7	49	12	118
30	75	31	15	8	59	14	141
36	86	36	17	9	68	17	163
42	95	40	19	10	76	19	183
48	117	43	21	11	84	21	203

REDUCERS	
SIZE (IN.)	L (FT.)
6x4	22
8x6	23
8x4	39
10x8	22
10x6	40
12x10	23
12x8	41
16x12	42
16x10	58
20x18	22
20x16	42
20x12	74
24x20	36
24x18	51
24x16	64
30x24	50
30x20	77
30x30	50
36x24	89
42x36	48
42x30	89
48x42	48
48x36	88

TEE SEE NOTE 5		
RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6 4 < LESS	6 F.O.
8	8 6 < LESS	19 F.O.
10	10 8 6 < LESS	29 9 F.O.
12	12 10 8 < LESS	40 21 F.O.
16	16 12 10 8 < LESS	60 25 3 F.O.
20	20 16 12 10 < LESS	79 48 9 F.O.
24	24 20 16 12 < LESS	79 54 23 F.O.
30	30 24 20 16 12 < LESS	101 66 38 4 F.O.
36	36 30 24 20 16 12 < LESS	122 90 53 21 1 F.O.
42	42 36 30 24 20 16 12 < LESS	141 113 79 38 3 1 F.O.
48	48 42 36 30 24 20 < LESS	160 133 103 66 22 F.O.

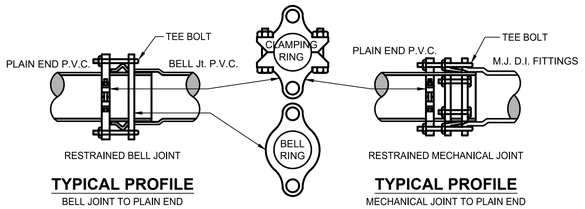
F.O. = FITTING ONLY

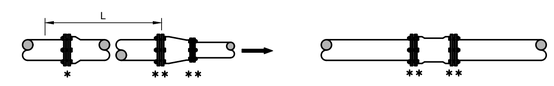
DUCTILE IRON PIPE RESTRAINT NOTES:

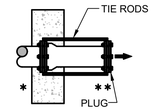
1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: DUCTILE IRON PIPE (WITHOUT POLY WRAP), SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE. FOR D.I.P. W/POLY WRAP, USE RESTRAINT JOINT SCHEDULE FOR PVC PIPE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO D.I.P. TRANSITIONS: THE D.I.P. PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).

DUCTILE IRON PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2023 PLATE W -31B

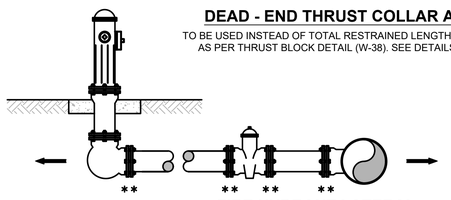






NO. OF TIE RODS REQUIRED

3" - 8"	DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
10" - 12"	DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
14" - 16"	DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
18" - 20"	DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
24"	DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
30" - 36"	DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)
42" - 48"	DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
54"	DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)

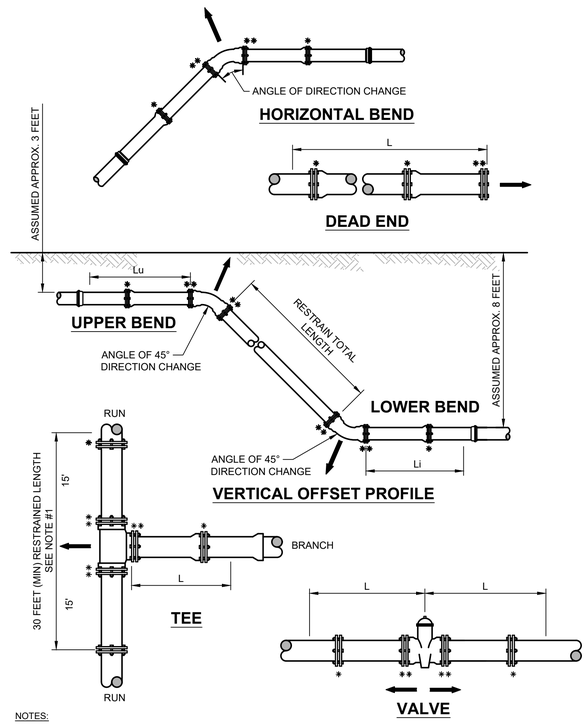


GENERAL NOTE:

1. PAY ITEM " * " DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM " ** " DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. ➡ INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2023 PLATE W-31C

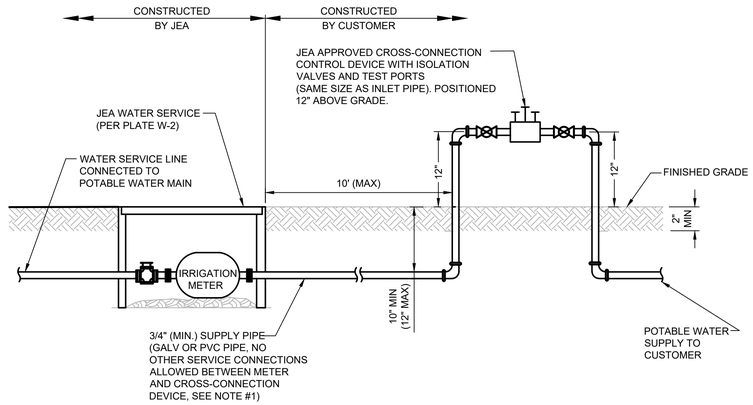


NOTES:

1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN.).
2. PAY ITEM "*" DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
3. PAY ITEM "**" DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

MECHANICAL RESTRAINT DETAILS - II

JANUARY 2023 PLATE W-31D



NOTES:

1. WATER SERVICE CONNECTIONS REQUIRE ABOVE GRADE REDUCED PRESSURE BACKFLOW PREVENTERS. (SEE PLATE W-15)
2. BACKFLOW PREVENTION DEVICES REQUIRED WHEN:
   IRRIGATION SYSTEMS - REQUIRED ON IRRIGATION SYSTEMS AT THE CONNECTION TO POTABLE SYSTEM
   RESIDENTIAL SYSTEMS - REQUIRED ON WATER SERVICE IF RECLAIMED SERVICE WATER AVAILABLE TO SITE
   COMMERCIAL SITES - REQUIRED ON ALL WATER SERVICES
   INDUSTRIAL SITES - REQUIRED ON BOTH WATER AND RECLAIMED SERVICE CONNECTIONS.
3. RESIDENTIAL IRRIGATION SERVICES MAY UTILIZE AN ALTERNATE BACKFLOW PREVENTER LOCATION IF THE FOLLOWING CONDITIONS EXITS:
   3.a. CUSTOMER HAS SUBMITTED A COMPLETED "CUSTOMER AFFIDAVIT" FORM AND
   3.b. THERE ARE NO ADDITIONAL CONNECTIONS BETWEEN THE METER AND THE BACKFLOW PREVENTER, AND
   3.c. THE ALTERNATE BACKFLOW LOCATION IS EASILY ACCESSIBLE TO JEA AND BACKFLOW TESTERS.

CROSS CONNECTION CONTROL DEVICE

JANUARY 2023 JEA IRRIGATION SERVICE CONNECTIONS PLATE W-15A

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-3223 | Fx. (904) 730-3226
Henry A. Verpe Jr. No. 45043

FAIRFIELD INN & SUITES WILDLIGHT

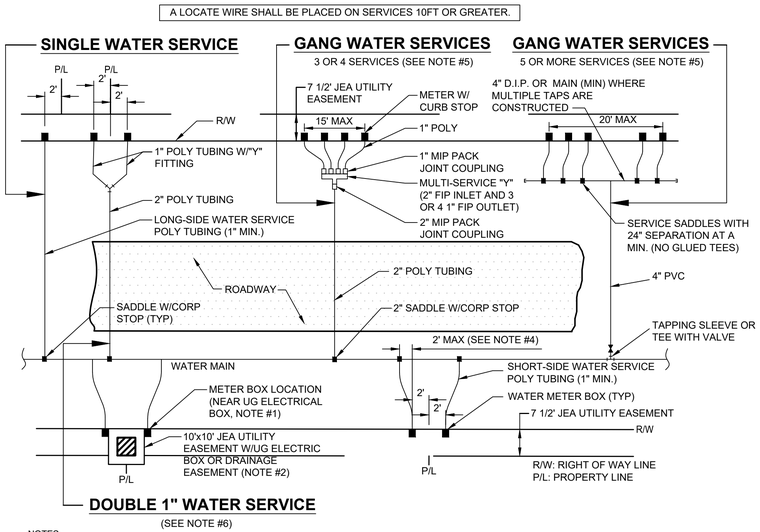
WATER DETAILS

Florida

Nassau County

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:
Sheet: 11 of 17

A LOCATE WIRE SHALL BE PLACED ON SERVICES 10FT OR GREATER.



DOUBLE 1" WATER SERVICE

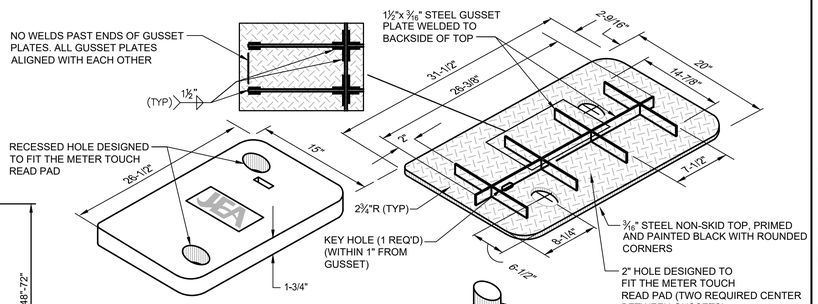
(SEE NOTE #6)

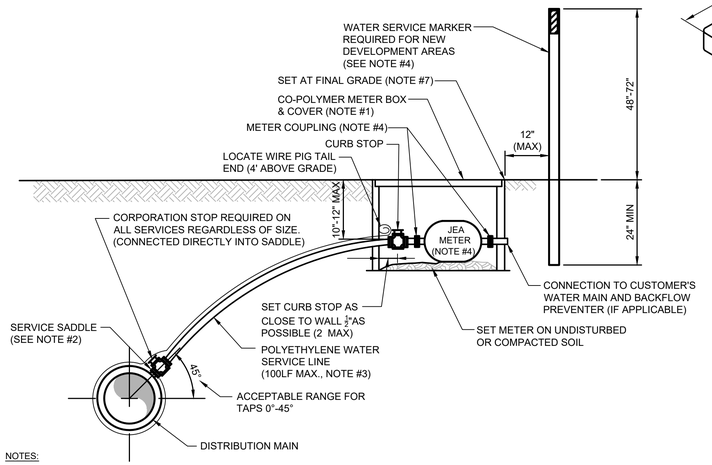
NOTES :

1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL LOCATED AT THE R/W LINE BUT INSIDE THE 7 1/2' ELECTRIC EASEMENT.
2. UNLESS SPECIFIED OTHERWISE BY THE APPLICABLE COUNTY (NASSAU, CLAY OR ST. JOHNS COUNTY), THE METER BOX SHALL BE LOCATED IN THE JEA 7 1/2' UTILITY EASEMENT, AND TWO FEET INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF TWO FEET). UNLESS APPROVED OTHERWISE BY JEA, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF THE METER BOX IS APPROVED BY JEA TO BE LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE CONSTRUCTION SHALL MEET STANDARD DETAIL NUMBERS W-3&4, AT A MINIMUM (SEE W-3 AND W-4 FOR THE REQUIREMENTS OF SPECIAL ORDER POLYMER BOX AND TOP) . SET TOP OF BOX AT FINISHED GRADE. IF AN UNAPPROVED METER BOX IS IDENTIFIED BY JEA, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. JEA SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
3. IF DRAINAGE OR OTHER EASEMENT LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN)BETWEEN THE SERVICES SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 1" SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. IF LOCATE WIRE IS REQUIRED, THE WIRE SHALL RUN FROM THE METER BOX (W/ PIG TAIL) TO THE MAIN (DEAD END SHALL BE TAPED WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY JEA. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTICLE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CORP STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER-MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN PVC CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" DIP, 4" PIPE, 4"X1" SADDLES AND 1" CORP STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE P.E. ENGINEER.
6. DOUBLE 1" WATER SERVICES IS ALLOWED FOR SHORT SIDE OR LONG SIDE SERVICES AND WHERE SHOWN ON THE DRAWINGS.
7. A 1" IRRIGATION SERVICE MAYBE TAPPED INTO THE (1" MIN) DOMESTIC WATER SERVICE LINE (WHICH SERVES THE SAME CUSTOMER) UTILIZING A 1" BRONZE "Y" FITTING. (IN AREAS WHERE NO RECLAIMED WATER IS AVAILABLE).
8. No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
9. RECLAIMED WATER METER BOXES OR SERVICES SHALL BE CONSTRUCTED SIMILAR TO THE ABOVE AND SHALL BE LOCATED, AT A MIN. OF 10' FROM THE POTABLE WATER SERVICE, AND/OR BOX AND NOT ALLOWED IN CONCRETE OR ASPHALT UNLESS APPROVED OTHERWISE BY JEA.
10. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

WATER OR RECLAIM SERVICE INSTALLATIONS 2" AND SMALLER METER

JANUARY 2023 PLATE W-1



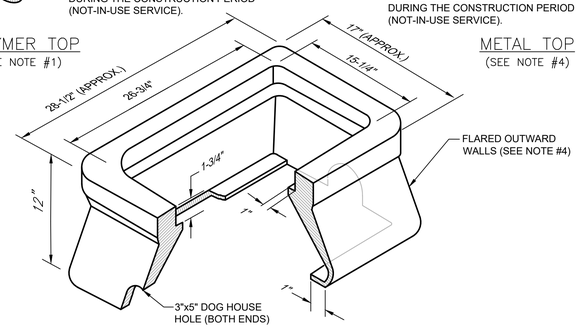


NOTES:

1. SEE PLATE W-1 FOR METER LOCATION REQUIREMENTS.
2. SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1 INCH AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10 INCH OR SMALLER PVC WATER MAIN.
3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY J.E.A. CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (1" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS APPROVED OTHERWISE BY JEA.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.- IF NO METER IS INSTALLED). WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "W" CUT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINTED BLUE (PAINTED PURPLE FOR RECLAIMED WATER). IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER). THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (i.e. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
8. LOCATE WIRING REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. SEE PLATE W-44.

WATER SERVICE DETAIL- 2" AND SMALLER METER

JANUARY 2023 PLATE W-2



POLYMER BOX

NOTES:

1. THE STANDARD BOX (FLARED OUTWARD WALLS) & TOP (2 HOLE) SHALL BE MADE OF POLYMER CONCRETE. (SIMILAR TO OLD BROOKS SERIES 65). BOX WALLS SHALL BE FIBERGLASS. BOX, INCLUDING THE INSIDE LIP, AND TOP SHALL MEET A-8 (ATSM C857) LOAD RATING.
2. ALL SIZES SHOWN ARE IN INCHES AND ARE APPROXIMATE SIZES.
3. POLYMER BOX APPROXIMATE WEIGHT 50lbs. POLYMER TOP APPROXIMATE WEIGHT 50lbs. SEE CONSTRUCTION DETAIL W-4A FOR MANUFACTURING DETAIL FOR TWO HOLE COVER.
4. UNLESS APPROVED OTHERWISE IN WRITING BY JEA, ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN THE ROADWAY, DRIVEWAYS OR SIDEWALKS).
5. METAL TOPS MAY BE UTILIZED IF SPECIFICALLY APPROVED BY A JEA MANAGER OR BY JEA METER O&M STAFF.

WATER METER BOX & COVER FOR 1-1/2" AND 2" METERS

JANUARY 2023 PLATE W-4

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

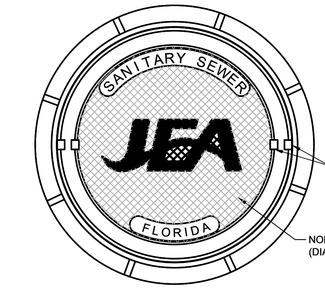
AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-3223 | Fx. (904) 730-3226
Henry A. Verpe, Jr. No. 45643

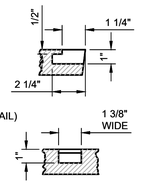
FAIRFIELD INN & SUITES WILDLIGHT

Florida
Nassau County

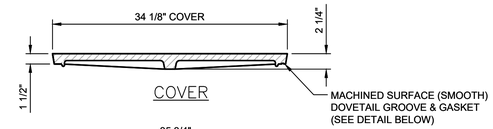
WATER DETAILS

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:
Sheet: 12 of 17

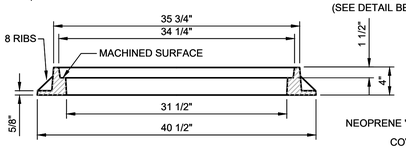




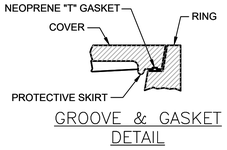
PICKHOLE DETAIL



COVER



RING



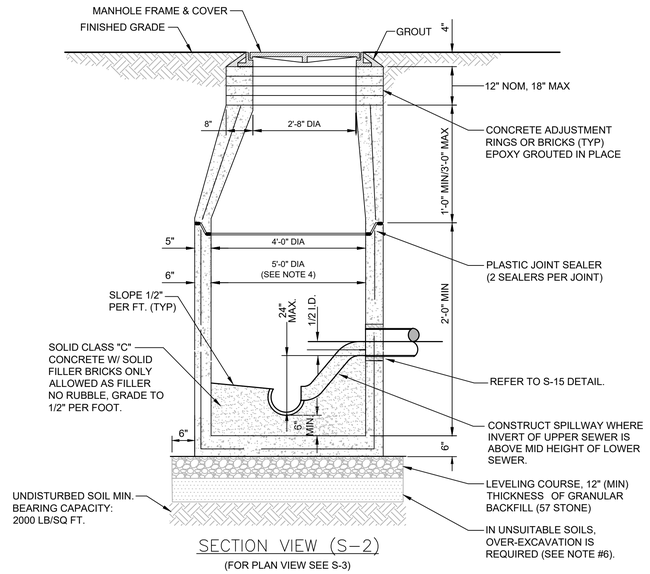
GROOVE & GASKET DETAIL

NOTES:

1. MATERIAL: ASTM A-48 CLASS 35B GRAY IRON.
2. RING WEIGHT 230 LBS APPROX.
3. COVER WEIGHT 230 LBS. APPROX.
4. ALL DIMENSIONS ARE SHOWN IN INCHES.
5. FOR MANHOLES WHICH WILL BE MAINTAINED BY JEA (INCLUDING UTILITY DEDICATION PROJECTS), THE COVER SHALL INCLUDE THE "JEA" LOGO AND A NEOPRENE GASKET.
6. FOR MANHOLES WHICH WILL BE MAINTAINED BY PARTIES OTHER THAN JEA (SUCH AS PRIVATE SEWER COLLECTION SYSTEMS, PRIVATE (FORCE MAIN) PUMP OUT BOX AND SYSTEMS NOT MAINTAINED BY JEA), THE COVER SHALL INCLUDE "SANITARY SEWER" GENERIC LETTERING (NO "JEA" LOGO OR NEOPRENE GASKET).

SANITARY SEWER MANHOLE FRAME AND COVER

JANUARY 2023 PLATE S-1



SECTION VIEW (S-2)

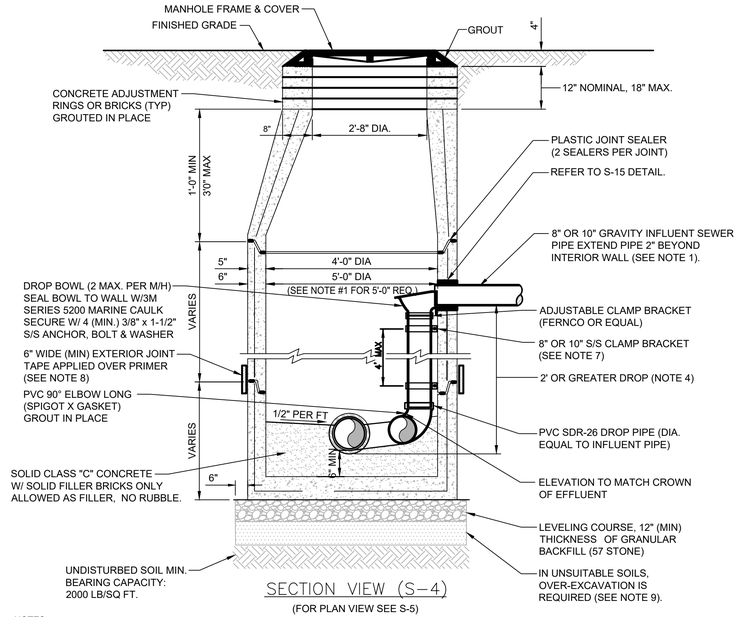
(FOR PLAN VIEW SEE S-3)

NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND ADJUSTING RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE INSIDE.
4. JUNCTION MANHOLE (CLOSEST TO WETWELL) SHALL BE 5' DIA WITH SPECIALTY LINER.
5. ALL MANHOLE JOINTS BELOW THE TOP COVER SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (WITH PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL. SEE PLATE S-17.
6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

SANITARY SEWER CONCRETE TYPE "A" MANHOLE 8"-21" SEWERS

JANUARY 2023 PLATES S-2, S-3



SECTION VIEW (S-4)

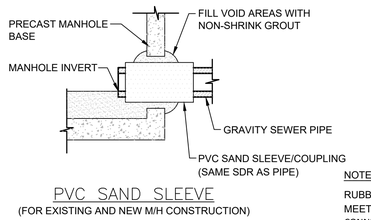
(FOR PLAN VIEW SEE S-5)

NOTES:

1. THIS ASSEMBLY IS FOR 8" OR 10" GRAVITY INFLUENT LINES ONLY. NEW CONSTRUCTION ONLY NO FORCE MAINS LARGER THAN 6". MAXIMUM OF 2 INSIDE DROP BOWLS PER MANHOLE. A 5'-0" DIA. MANHOLE (6" THICK WALLS) IS REQUIRED IF TWO INSIDE DROPS ARE CONSTRUCTED WITH ONE OR BOTH BEING 10" SIZE. DROP BOWL BY RELINER OR APPROVED EQUAL REQUIRED. THE INSIDE DROP FOR AN 8" HIGH-LINE SHALL BE CONSTRUCTED SIMILAR TO ABOVE (SEE PLATE S-5).
2. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
3. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF ADJUSTMENT RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
4. TYPE "B" MANHOLE MUST BE USED FOR 2' OR GREATER INFLUENT PIPE DROPS.
5. THE DROP BOWL ASSEMBLY SHALL BE INSTALLED PRIOR TO APPLICATION OF SPECIALTY LINING MATERIAL.
6. A TYPE "D" MANHOLE SHALL BE UTILIZED WHEN THREE OR MORE (2' OR GREATER) DROPS ARE INVOLVED OR WHEN INFLUENT PIPES AREA LARGER THAN 10" IN SIZE.
7. ADJUSTABLE CLAMPING BRACKET (MIN. 2 PER DROP BOWL ASSY'). 1-1/2" WIDE, 11 GA. W/ 3/8" DIA. 18-8 PINCH BOLTS AND NUTS. SECURE TO M/H WALL WITH (2) 3/8" X 1" BOLT, ANCHOR & WASHER PER BRACKET ASSY. ALL 304 OR 316 STAINLESS STEEL MATERIALS.
8. ALL M/H JOINTS BELOW THE TOP CONE SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL.
9. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

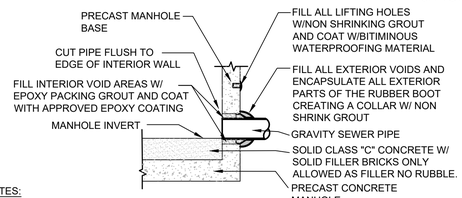
SANITARY SEWER CONCRETE TYPE "B" MANHOLE 8"-10" SEWERS

JANUARY 2023 PLATES S-4, S-5



PVC SAND SLEEVE

(FOR EXISTING AND NEW M/H CONSTRUCTION)

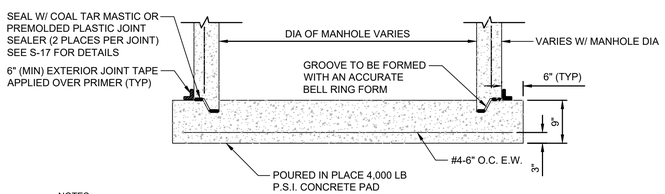


NOTES:

RUBBER BOOT, DOUBLE BANDED, 316 S/S CLAMPS, MEETING THE ASTM C923 STANDARD. Kor-N-Seal® I EX SERIES CONNECTOR WITH DOUBLE STAINLESS STEEL BANDS OR EQUAL.

RUBBER BOOT

(FOR NEW M/H CONSTRUCTION ONLY, MAXIMUM DEPTH 15FT)



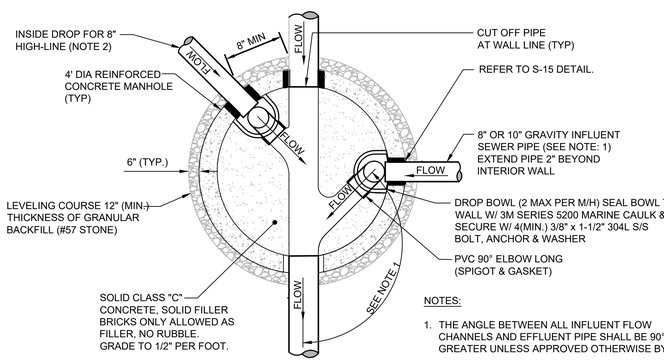
NOTES:

THE USE OF THE POURED IN PLACE MANHOLE BOTTOM SHALL BE MINIMIZED AND SHALL BE SPECIFICALLY APPROVED BY JEA PRIOR TO CONSTRUCTION.

MANHOLE BOTTOM

CONCRETE MANHOLE PIPE CONNECTION DETAIL

JANUARY 2023 PLATE S-15



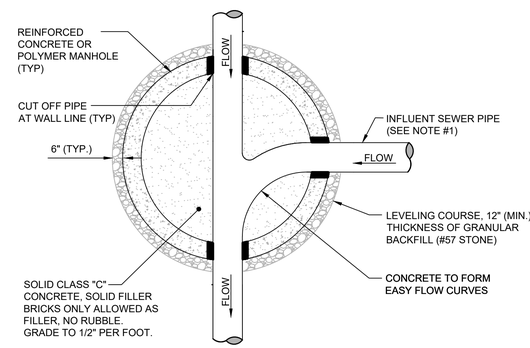
NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE 90° OR GREATER UNLESS APPROVED OTHERWISE BY JEA.
2. THE 8" HIGH-LINE, WHERE UTILIZED, SHALL ENTER THE MANHOLE OFF-CENTER AS SHOWN ABOVE.

PLAN VIEW (S-5)

(FOR SECTION VIEW SEE S-4)

JANUARY 2023 PLATE S-5



NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE BETWEEN 90° - 180° UNLESS OTHERWISE APPROVED BY JEA.

PLAN VIEW (S-3)

(FOR SECTION VIEW SEE S-2, S-2A)

JANUARY 2023 PLATE S-3

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-2223 | Fx. (904) 730-2226
Henry A. Verpe at No. 45043

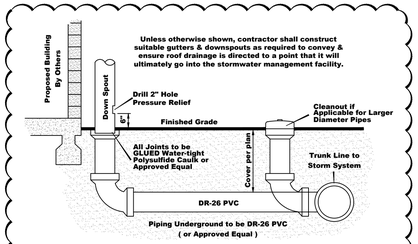
FAIRFIELD INN & SUITES WILDLIGHT

SEWER DETAILS

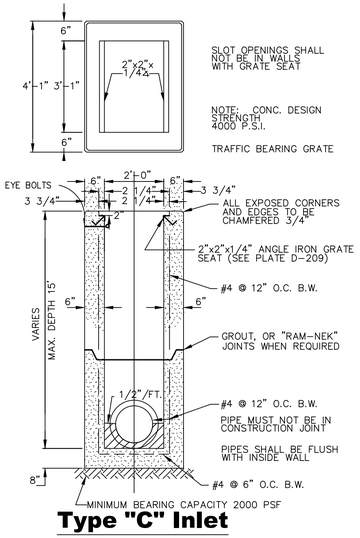
Florida

Nassau County

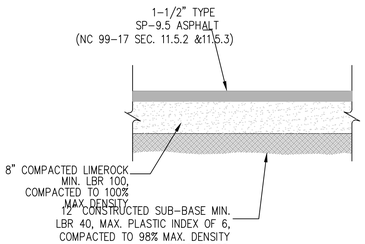
Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:
Sheet: 13 of 17



ROOF DRAIN DETAIL

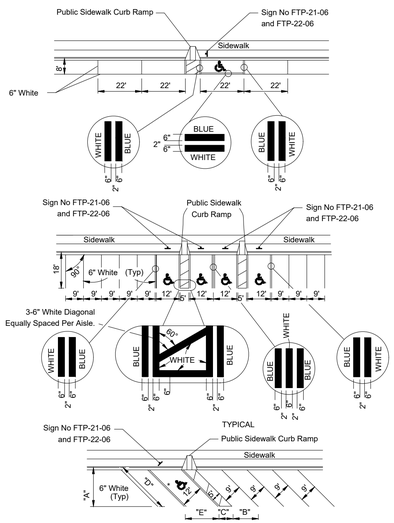


Type "C" Inlet



ASPHALT PAVEMENT SECTION

3



* FOR ACCESSIBLE MARKINGS - SEE ABOVE

	"DIMENSIONS"				
ϑ	"A"	"B"	"C"	"D"	"E"
45°	19'-1"	12'-9"	7'-0"	27'-0"	17'-0"
60°	20'-1"	10'-5"	5'-9"	23'-2"	13'-10"

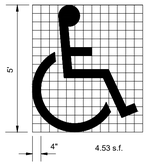
NOTES:
1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only, not public sidewalk curb ramp locations.
4. For ramp locations refer to plans.Blue Standards 595a.
5. The FTP-22-06 panal shall be mounted below the FTP-21-06 sign.

PAVEMENT MARKING FOR PUBLIC SIDEWALK CURB RAMPS IN REST AREAS

SPEED MPH	UP STREAM (A)	DOWN STREAM (B)	
		2 LANE	4 LANE
0-30	85'	60'	45'
35	100'	70'	50'

NOTES
1. Distances measured longitudinally along the street from driver location of entering vehicle to end of parking restriction.
2. Distances applicable to intersecting street, major driveways and other driveways to the extent practical.
3. For nonsignalized intersections, the values above shall be compared with the values for signalized intersections and the maximum restrictions implemented. These restrictions apply to both accessible and nonaccessible parking.

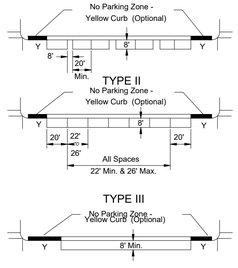
MINIMUM PARKING RESTRICTION FOR NONSIGNALIZED INTERSECTIONS



♿ Use of pavement symbol in accessible parking spaces is optional, when used the symbol shall be 3' or 5' high and white in color.

UNIVERSAL SYMBOL OF ACCESSIBILITY

GENERAL NOTES
1. For entrances to a one-way street, the downstream restriction may be reduced to 20'.
2. Parking shall not be allowed within 20' of a crosswalk.
3. All parking lane markings shall be 6" white.
4. Parking lane lines shall be broken at driveways.
5. Refer to Chapter 316, Fla. Statutes, for laws governing parking spaces.
6. Where curb and gutter is used, the gutter pan width may be included as part of the minimum width of parking lane, but preferably the lane width should be in addition to that of the gutter pan.



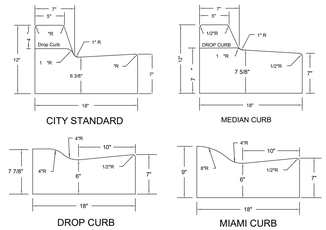
SPEED LIMIT MPH	SIGNALIZED INTERSECTIONS
0-30	30'
35	50'

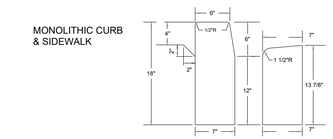
DISTANCE FROM CURB RADIUS (Y)

PARKING RESTRICTION (FT.) FOR SIGNALIZED INTERSECTION

NOTES:
1. Parking restrictions measured from curb radius point.
2. Restrictions for accessible parking are the same as those applied to nonsignalized intersections.

MINIMUM PARKING RESTRICTION FOR SIGNALIZED INTERSECTION

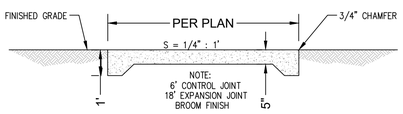




CONCRETE QUANTITES

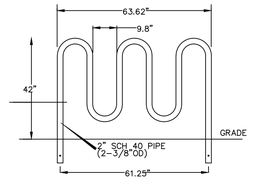
CITY STANDARD CURB	.0388889	CU. YD./LIN. FT.
STANDARD DROP CURB	.0322222	CU. YD./LIN. FT.
MEDIAN CURB	.0411111	CU. YD./LIN. FT.
MIAMI CURB	.0325926	CU. YD./LIN. FT.
HEADER CURB	.0314815	CU. YD./LIN. FT.
HEADER DROP CURB	.0244444	CU. YD./LIN. FT.

CITY STANDARD CURB TEMPLATES



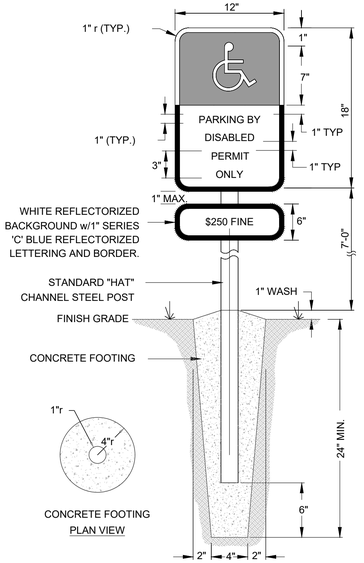
CONCRETE SIDEWALK DETAIL

NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. FINISH SHALL BE GALVANIZED, SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

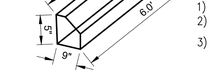


PRODUCT: HW238-7-IG(SF,SG)
DESCRIPTION: HEAVY DUTY WINDER BIKE RACK 7 BIKE, SURFACE OR IN GROUND MOUNT
MADRAX DIVISION
TRILADY, INC.
1080 VINER DRIVE
WAUNAKEE, WI 53597
P(800) 448-7931, P(608) 849-1080, F(608) 849-1081
WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM

BIKE RACK DETAIL



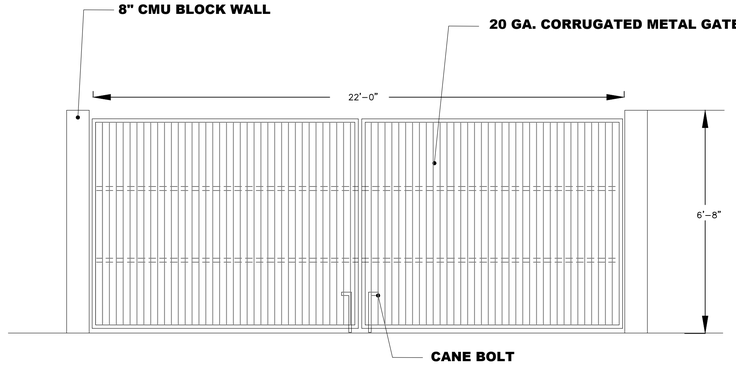
HANDICAPPED SIGN DETAIL



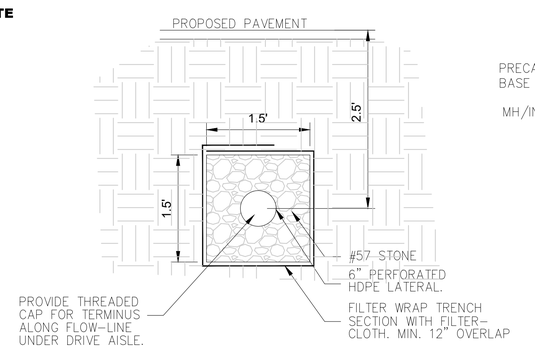
1) 4,000 P.S.I. TYPE II CEMENT
2) 2 EA #4 BARS ACCURATELY PLACED WITH PLASTIC CHAIRS.
3) 2 EA #6 ANCHOR PINS 16" LONG ARE FURNISHED

CONCRETE WHEEL STOP DETAIL

N.T.S.

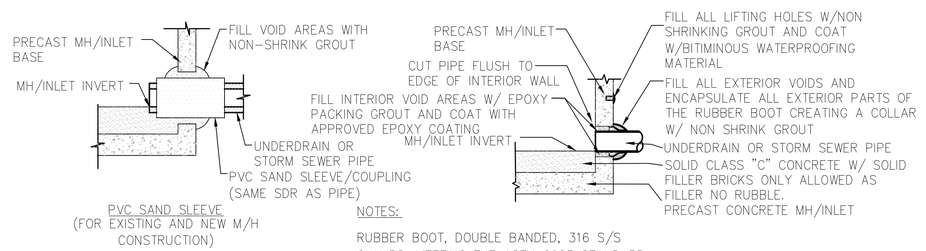


DUMPSTER ENCLOSURE GATE



UNDERDRAIN DETAIL

N.T.S.



NOTES:
RUBBER BOOT, DOUBLE BANDED, 316 S/S CLAMPS, MEETING THE ASTM C923 STANDARD

RUBBER BOOT
(FOR NEW MH/INLET CONSTRUCTION ONLY, MAXIMUM DEPTH 15FT)

CONCRETE INLET PIPE CONNECTION DETAIL

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-2223 | Fx. (904) 730-2226
Henry A. Verpe Jr. No. 45043

FAIRFIELD INN & SUITES WILDLIGHT

GRADING DETAILS

Florida
Nassau County

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:
Sheet: 14 of 17

EROSION AND SEDIMENT CONTROL NOTES

1. THE ENVIRONMENTAL PROTECTION AGENCY (EPA) HAS ISSUED TO FLORIDA A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR CERTAIN STROMWATER DISCHARGES. THIS NPDES PROGRAM REQUIRES THAT IF THE MAGITUDE OF CONSTRUCTION SCTIVITIES COVERED BY THE GENERAL PERMIT ARE ABOVE CERTAIN THRESHOLDS, THEN A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED. ALSO INVOLVED ARE CERTAIN CERTIFICATION, NOTIFICATION, INSPECTION AND RECORD KEEPING IN ACCORDANCE WITH THE EPA PUBLICATION EPA 832-R-92-005 DATED SEPT., 1992 & TITLED "STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES-DEVELOPING POLLUTION PREVENTION PLANS & BEST MANAGEMENT PRACTICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF THIS PROJECT REQUIRES AN NPDES APPLICATION AND NOTIFICATION AND, IF NECESSARY, PREPARE, SUBMIT AND MAINTAIN THE REQUIRED DOCUMENTATION IN COMPLIANCE WITH THE EPA GUIDELINES AND CRITERIA.

2. THESE PLANS INDICATE THE MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUILDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

3. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS, AND THE ST. JOHNS RIVER MANAGEMENT DISTRICT PERMIT AND REGULATIONS. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER MANAGEMENT DISTRICT.

4. ALL EXCAVATIONS AND EARTHWORK SHALL BE DONE IN A MANNER TO MINIMIZE WATER TURBIDITY AND POLLUTION. DISCHARGE SHALL BE CONTROLLED AND REROUTED THROUGH HAY FILTERS, SILTATION DIAPERS AND SUMPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION, CORRECTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION IN ACCORDANCE WITH CHAPTER 17-3, FLORIDA ADMINISTRATIVE CODE. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "FLORIDA DEVELOPEMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 6.

5. THE CONTRACTOR SHALL PAY FOR ANY WATER QUALITY CONTROL VIOLATIONS FROM ANY AGENCY THAT RESULTS IN FINES BEING ASSESSED TO THE OWNER BECAUSE OF THE CONTRACTOR'S FAILURE TO ELIMINATE TURBID RUNOFF FROM LEAVING THE SITE AND RAISING BACKGROUND LEVELS. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER

6. QUALITY DEGRADATION.

7. ADDITIONAL PROTECTION - ON SITE PROTECTION, AS MAY BE DEEMED NECESSARY DURING CONSTRUCTION SHALL BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORSEEN CONDITIONS OR ACCIDENTS,

8. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.

9. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.

10. BALES SHALL BE PLACED LENGTHWISE IN SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.

11. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. LOOSE FIBER SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.

12. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS AND SHALL BE MAINTAINED UNTIL COMPLETION OF ALL CONSTRUCTION ACTIVITY.

13. CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC., ARE CLEANED OUT AND WORKING PROPERLY AT ALL TIMES AND THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND REPAIRS, AS NEEDED, SHALL BE MADE IMMEDIATELY.

14. ANY DISCHARGE FROM A DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND THE TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.

15. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

16. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

17. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ANY SEDIMENT THAT LEAVES THE SITE AND CHANGES ANY DOWNSTREAM CONDITIONS BY RAISING CHANNEL BOTTOMS AND/OR CLOGGING OUTFALL CULVERTS.

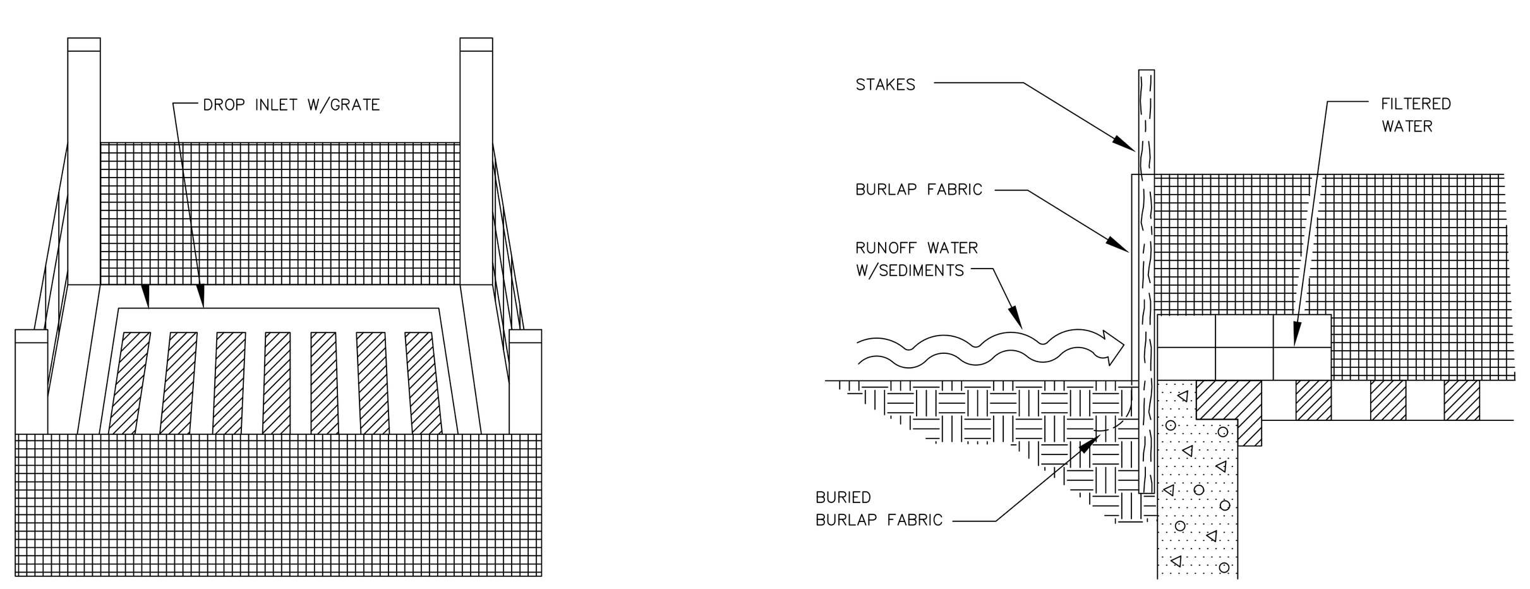
18. SEDIMENT DEPOSITS TO BE REMOVED AFTER EACH RAINFALL AND REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT ON THE BARRIER. SEDIMENT TRAPS TO BE RESTORED TO THIER ORIGIONAL DIMENSIONS BY REMOVING THE SEDIMENT WHEN IT HAS ACCUMULATED TO ONE-THIRD THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT TO BE DEPOSITED IN A SUITABLE AREA AND MANNER THAT IT WILL NOT ERODE.

19. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE, SYNTHETIC BALE OR FILTER BARRIER IS NO LONGER REQUIRED OR AFTER COMPLETION OF CONSTRUCTION SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

20. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED. ALL DEWATERING, EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED.

21. ALL DISTURBED AREAS SHALL BE STABILIZED THROUGH COMPACTION, GRASSING AND SODDING. THE GRASS/SODDING SHALL BE MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED. ALL FILL SLOPES 4:1 OR GREATER TO RECEIVE STAKED SOLID SOD.

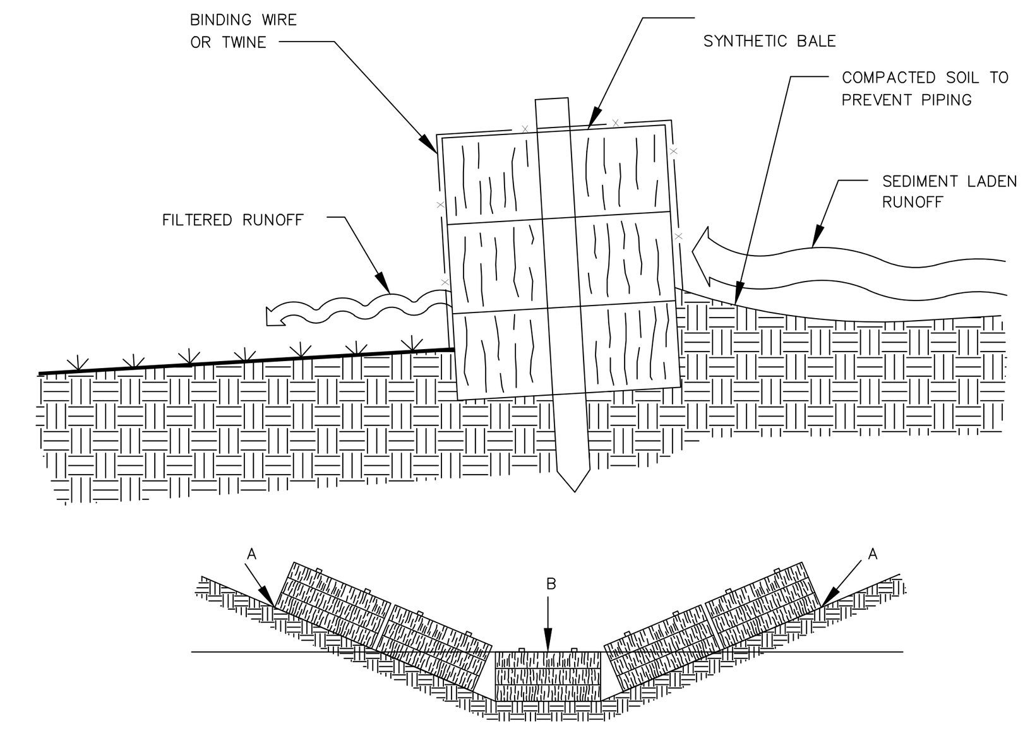
ONLY SYNTHETIC BALES TO BE USED (TYP)



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

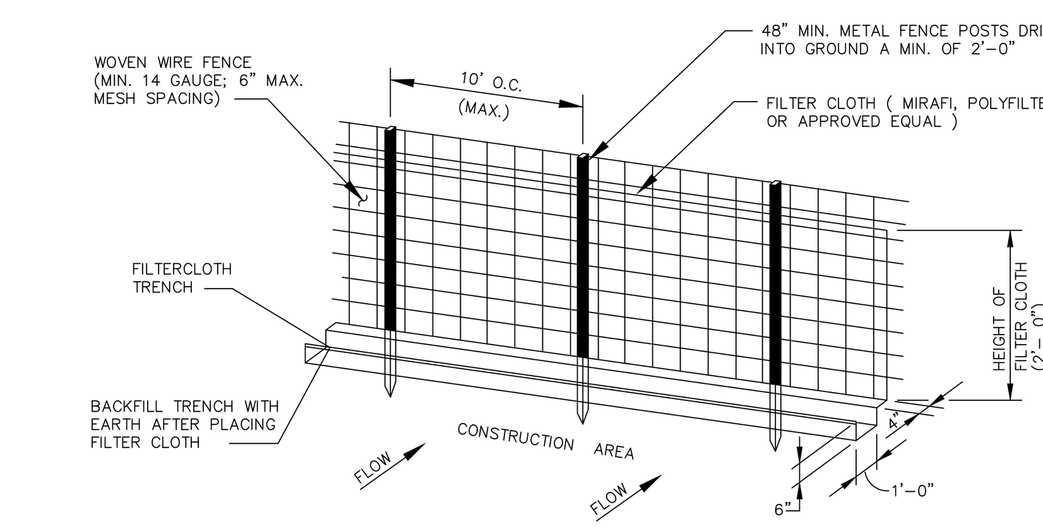
BURLAP DROP INLET SEDIMENT FILTER



POINTS 'A' SHOULD BE HIGHER THAN POINT 'B'

NOTES:
1. EXCAVATE THE TRENCH
2. PLACE AND STAKE SYNTHETIC BALES
3. WEDGE LOOSE FIBER BETWEEN BALES
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

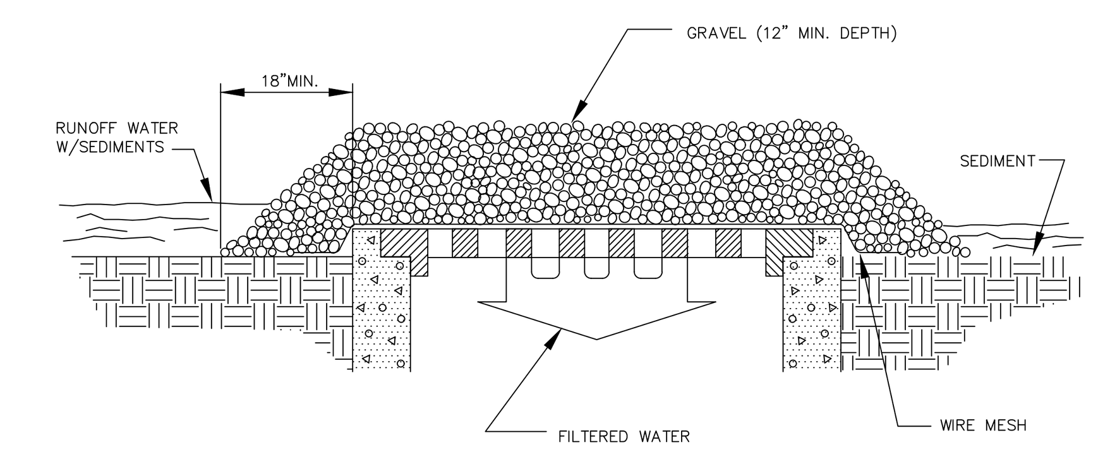
SYNTHETIC BALE BARRIER



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS BY USE OF WIRE TIES
2. FILTER CLOTH TO BE FASTEN SECURELY TO WOVEN WIRE FENCE BY USE OF WIRE TIES SPACED EVERY 24"x 24".
3. SILT FENCES TO BE INSTALLED IN LOCATIONS AS SHOWN ON THIS EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING OF CONSTRUCTION TO CONTROL SEDIMENT.
4. SILT FENCES TO BE MAINTAINED AND CLEANED AS NECESSARY TO MAINTAIN IN FUNCTIONAL CONDITION.
5. SILT FENCES TO BE REMOVED AND THE AREA TO BE RESTORED TO ITS NATURAL CONDITION WHEN PERMANENT EROSION AND SEDIMENT CONTROL PROCEDURES ARE EFFECTIVE.

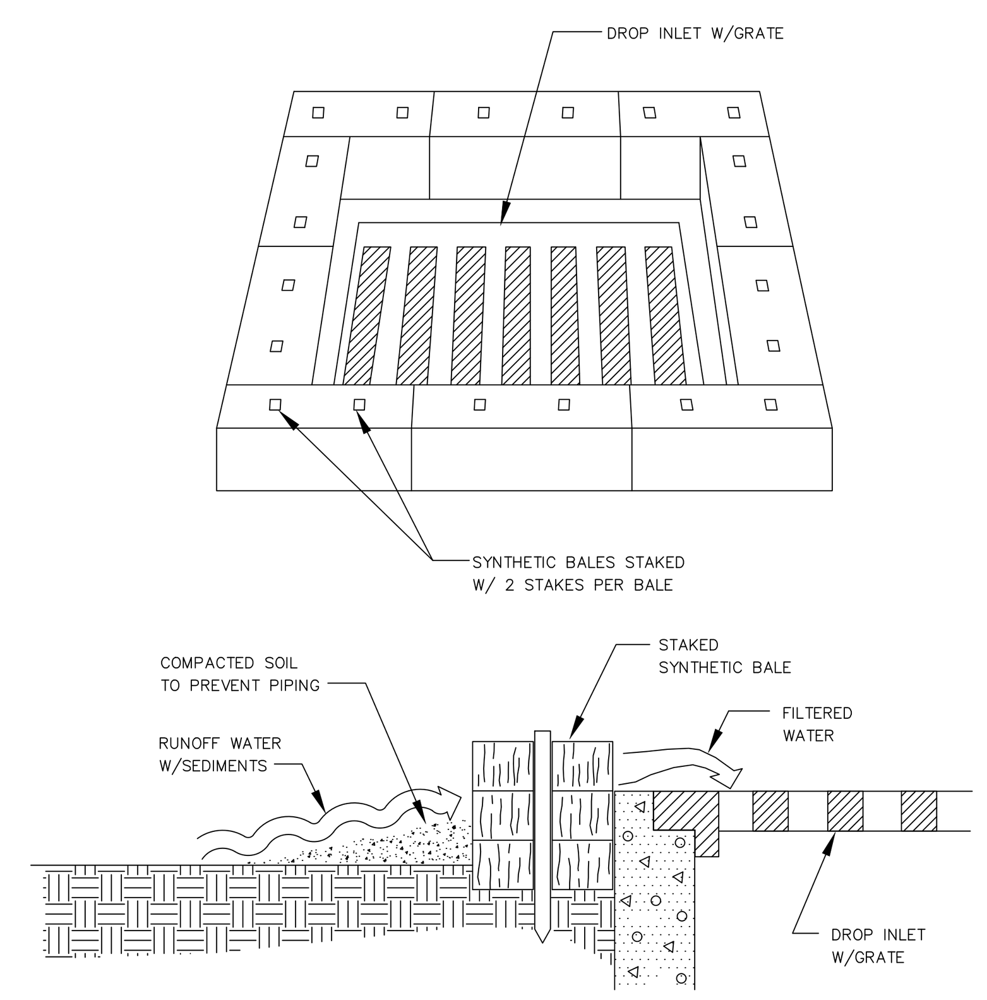
FILTER FENCE



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURED ARE UNPROTECTED AREAS.

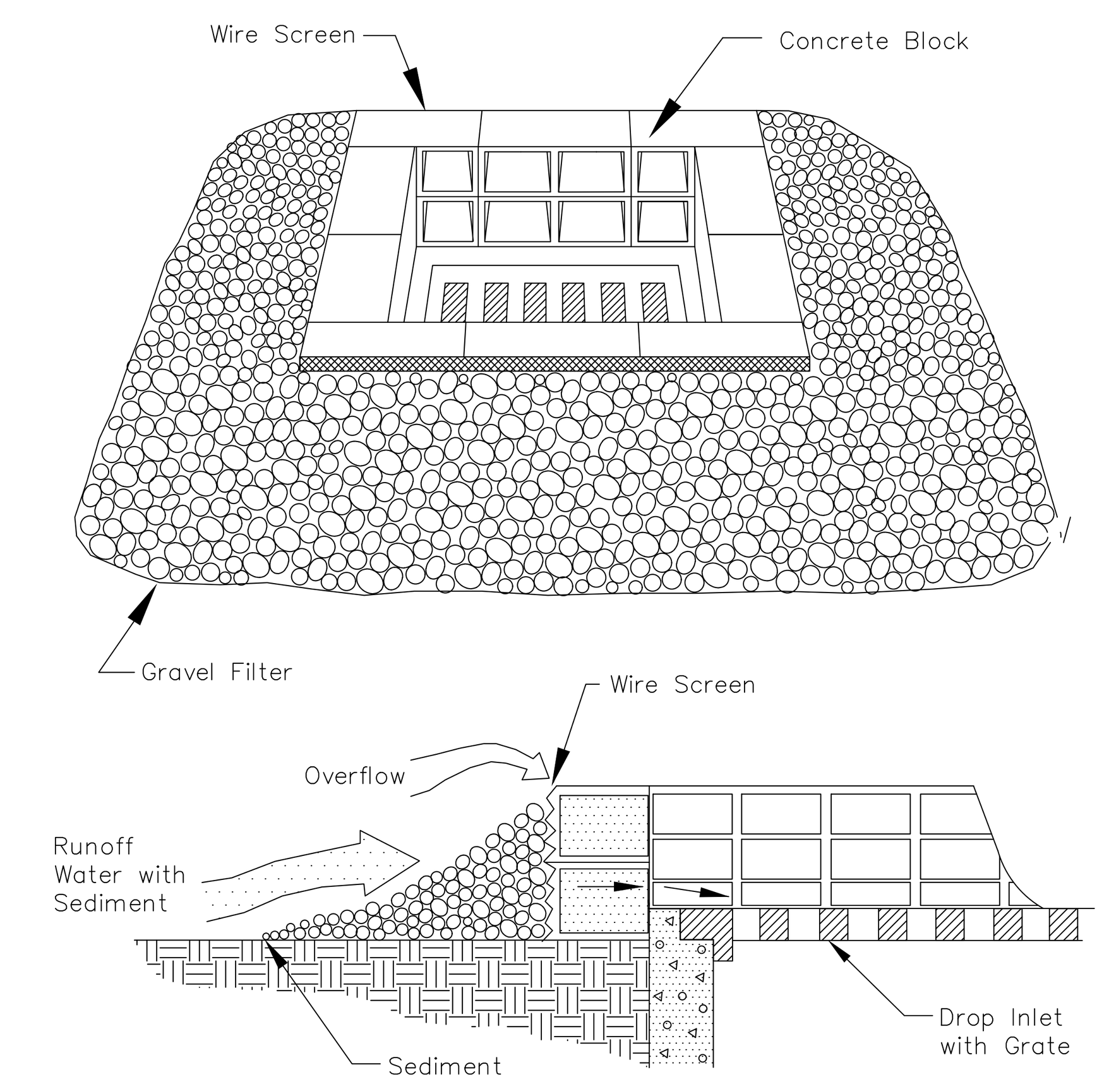
GRAVEL & WIRE MESH DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

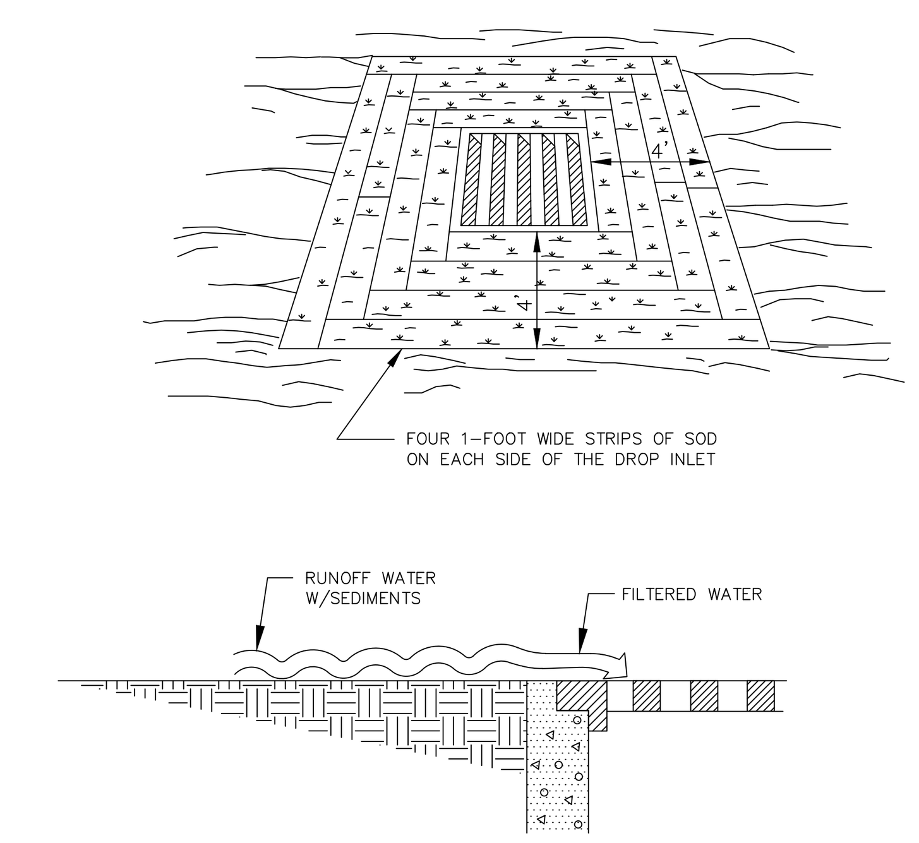
SYNTHETIC BALE DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

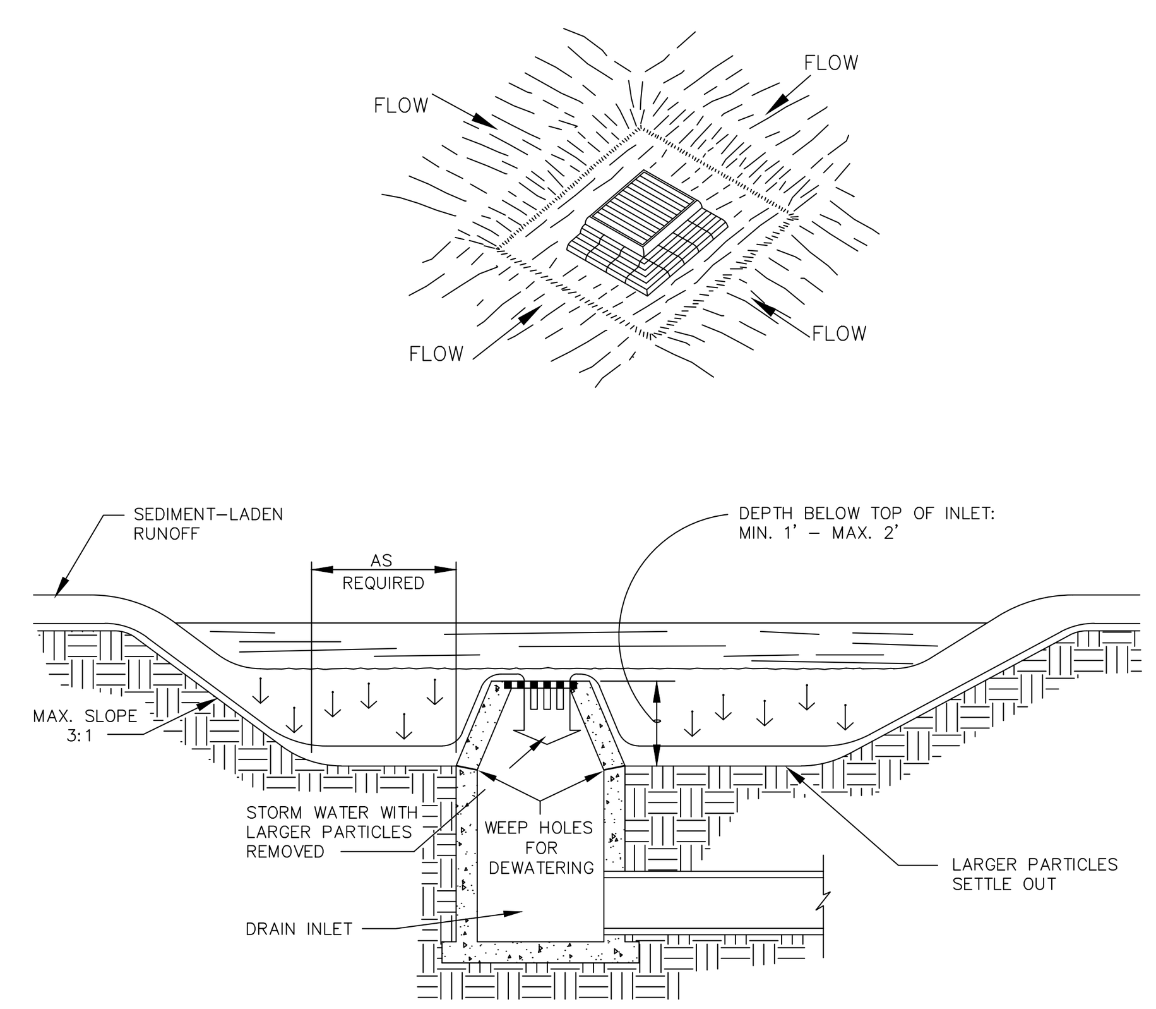
BLOCK & GRAVEL DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

PROTECT THE INLET FROM SEDIMENT AND MULCH MATERIALS UNTIL PERMANENT VEGETATION HAS BECOME ESTABLISHED.

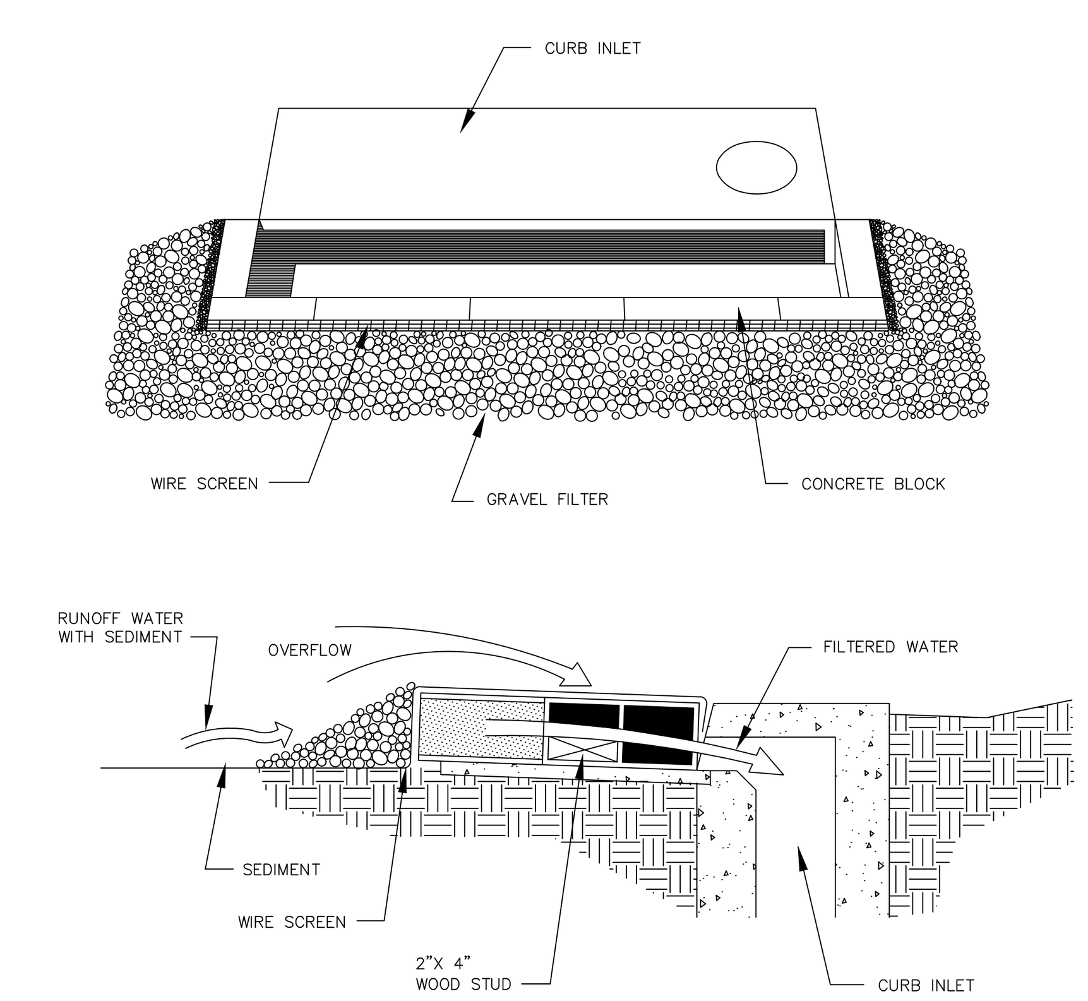
SOD DROP INLET SEDIMENT FILTER



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPABILITY AND EASE OF MAINTENANCE ARE DESIRABLE.

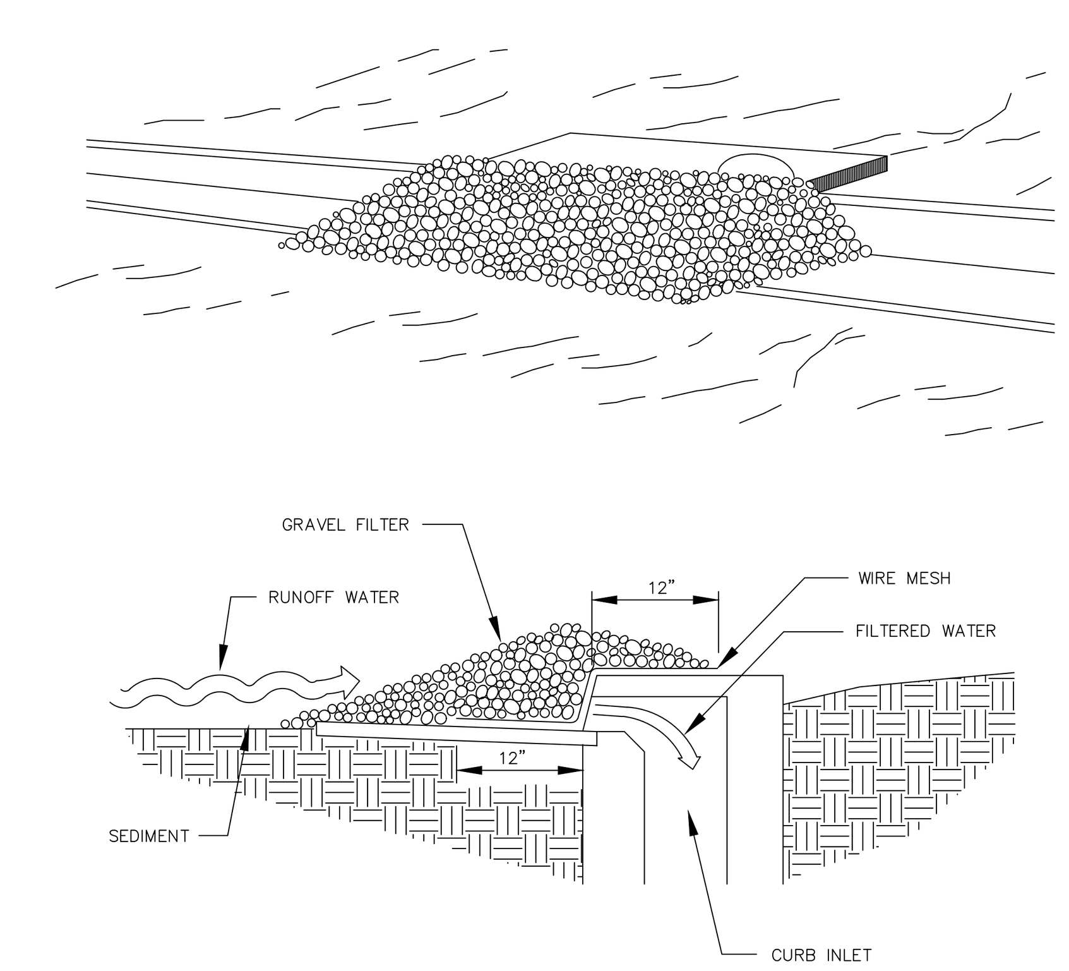
EXCAVATED DROP INLET SEDIMENT TRAP



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXESSIVE PONDING IN FRONT OF THE STRUCTURE.

BLOCK & GRAVEL CURB INLET SEDIMENT FILTER



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL CURB INLET SEDIMENT FILTER

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 00008161
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE, FLORIDA 32217
Ph. (904) 730-3223 | Fx. (904) 730-3226
Henry A. Vorpe Jr. No. 49049

FAIRFIELD INN & SUITES WILDLIGHT

EROSION CONTROL DETAILS
Nassau County Florida

Date: 05-21-19
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:

OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
FAIRFIELD INN & SUITES WILDLIGHT, FL
EAST NASSAU COMMUNITY PLANNING AREA – YULEE, FL

OWNER NAME AND ADDRESS:
JKM IMPACT WILDLIGHT, LLC
10175 FORTUNE PARKWAY, SUITE 504
JACKSONVILLE, FL 32256

DESCRIPTION:
PROPOSED HOTEL WITH ASSOCIATED PARKING AREAS, UTILITIES AND POOL.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING; PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR UTILITIES INCLUDING STORM, SANITARY AND WATER MAINS; CONSTRUCTION OF CURB, GUTTER AND ASPHALT PAVING; ALSO INCLUDES PREPARATION FOR FINAL PLANTING AND SEEDING.

RUNOFF COEFFICIENT:
1. PRE–CONSTRUCTION = 80
2. DURING CONSTRUCTION = 85
3. POST–CONSTRUCTION =90

SOILS:
SEE SOILS REPORT FOR SOILS DATA

SITE MAPS:
* SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOIL, DISTURBANCE, LOCATION OF SURFACE WATERS, PROTECTED AREAS, MAJOR STRUCTURAL AND NON–STRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.

* SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS.

* SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

SITE AREA:

1. TOTAL AREA OF SITE = 1.76 Ac.
2. TOTAL AREA TO BE DISTURBED = 1.76 Ac.

NAME OF RECEIVING WATERS: NASSAU RIVER

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUNOFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL , STATE, AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT

STORM WATER DRAINAGE WILL BE PROVIDED BY CURB AND GUTTER, STORM SEWER, CURB INLETS AND CATCH BASINS
FOR THE PAVED AREAS. AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF ___ ACRES WILL HAVE BEEN REGRADED. THE SITE DISCHARGES TO AN EXISTING WETLAND SYSTEM
WHERE PRACTICAL, TEMPORARY SEDIMENT BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN.

TIMING OF CONTROLS/MEASURES

REFER TO " CONTRACTORS RESPONSIBILITY " FOR THE TIMING OF CONTROL/MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED:

D.E.R. DREDGE/FILL PERMIT #
C.O.E. DREDGE/FILL PERMIT #
S.J.R.W.M.D. PERMIT #
CITY OF JACKSONVILLE, FL DEVELOPMENT PERMIT

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: _____
CORPORATE OFFICER, GENERAL PARTNER, PROPRIETOR,
EXECUTIVE OFFICER, RANKING ELECTED OFFICIAL

DATE: _____

CONTRACTOR'S REQUIREMENTS

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULATES TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED
3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN
4. CONSTRUCT SEDIMENTATION BASIN
5. CONTINUE CLEARING AND GRUBBING
6. STOCK PILE TOP SOIL IF REQUIRED
7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED
8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
9. INSTALL UTILITIES, STORM SEWER CURBS AND GUTTER.
10. APPLY BASE TO PARKING LOT
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING
12. COMPLETE FINAL PAVING
13. REMOVE ACCUMULATED SEDIMENT FROM BASINS
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED

CONTROLS

IT IS IN THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES. AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE, AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED AS THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS
STABILIZATION PRACTICES

1. STRAW BALE BARRIER: STRAW BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
   C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
   D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING OR GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF–SITE DEPOSIT OF SEDIMENTS.
7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF–SITE SHALL BE PROTECTED FROM SEDIMENT –LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE–EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT AFTER COMPETE WITH PERMANENT GRASSING.
9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFF SITE FACILITIES.
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG–TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF TROUGH A SEDIMENT–TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP IS USUALLY INSTALLED IN A DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATIONS:
   A. THE SEDIMENT TRAP MAY BE INSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF FLOW AT DESIGN CAPACITY OF THE OUTLET WILL EXCEED THE PERMISSIBLE VELOCITY OF THE RECEIVING CHANNEL OR AREA.
4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3, 600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3, 600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY–TO–DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESES PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN
THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY–TO–DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE
FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMETS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY
TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

CONCRETE	FERTILIZERS	WOOD
ASPHALT	PETROLEUM BASED PRODUCTS	MASONRY BLOCKS
TAR	CLEANING SOLVENTS	ROOFING MATERIALS
DETERGENTS	PAINTS	METAL STUDS

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURERS LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC, AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A
DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY–TO–DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

1. NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
2. ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
3. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
4. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE–THIRD THE HEIGHT OF THE FENCE.
5. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
6. THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
7. DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
8. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
9. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED.
   THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER, OR ANY FEDERAL, STATE, OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.
   THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON– COMPLIANCE.
10. THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
11. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON–STORM WATER DISCHARGES

1. IT IS EXPECTED THAT THE FOLLOWING NON–STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:
2. WATER FROM WATER LINE FLUSHING
3. PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
4. UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON–STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE	BUSINESS NAME AND ADDRESS OF CONTRACTOR AND ALL SUBS	RESPONSIBLE FOR/DUTIES
		GENERAL CONTRACTOR
		SUB–CONTRACTOR
		SUB–CONTRACTOR
		SUB–CONTRACTOR
		SUB–CONTRACTOR

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD, SUITE 3 | JACKSONVILLE, FLORIDA 32217
Ph. (904) 730-2223 | Fx. (904) 730-2226
Henry A. Verpe, Jr. No. 63643

FAIRFIELD INN & SUITES WILDLIGHT

Florida
SWPPP-1
Nassau County

Date: 03/2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:
Sheet: 16 of 17

JOB DESCRIPTION

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT

TO BE COMPLETED EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS
OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR: _____ DATE: _____

INSPECTOR'S QUALIFICATIONS:

DATES SINCE LAST RAINFALL:_____ AMOUNT OF LAST RAINFALL:_____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES / NO)	STABILIZED WIDTH	CONDITION

STABILIZATION REQUIRED:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

SHEET 1 OF 4

JOB DESCRIPTION

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT

DATE: _____

STRUCTURAL CONTROLS

EARTH DIKES / SWALES

DIKE OR SWALE	FROM	TO	IS DIKE / SWALE STABILIZED?	IS THERE EVIDENCE OF WASHOUT OR OVER TOPPING?

MAINTENANCE REQUIRED FOR EARTH DIKE / SWALE:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

EARTH DIKES / SWALES

STRUCTURAL / OUTFALL	ARE TURBIDITY CONTROLS IN PLACE?	ANY EVIDENCE OF CLOGGING/WASHOUT OR BYPASSING?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING?	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL?

MAINTENANCE REQUIRED FOR CATCH BASIN / CURB INLETS / OUTFALLS TRUBIDITY CONTROLS:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

SHEET 2 OF 4

JOB DESCRIPTION

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	IS THERE EVIDENCE OF OVER TOPPING OF EMBANKMENT?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROADWAY?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE LEAVE THE SITE?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

SHEET 3 OF 4

JOB DESCRIPTION

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:

REASONS FOR CHANGES:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERTY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE: _____ DATE: _____

SHEET 4 OF 4

NOTE TO CONTRACTOR:

THIS IS THE CONTRACTORS CERTIFICATE REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

No.	Revisions	By
1	ADDED SIDEWALK	PR
2	GRADING AND DRAINAGE REV'S	PR
3	CITY / GC COMMENTS	PR
4		

AVA ENGINEERS, INC.
Commercial | Residential | Marine
Florida Certificate No. 0000816
4201 BAYMEADOWS ROAD SUITE 3 | JACKSONVILLE FLORIDA 32217
Ph. (904) 730-3223 | Fx. (904) 730-3226
Henry A. Verpa Jr. No. 65143

FAIRFIELD INN & SUITES WILDLIGHT

SWPPP-2

Florida

Nassau County

Date: 03-2023
Designer: HAV
Job #: 19-014
Drawn: GCO
Scale:
Sheet: 17 of 17