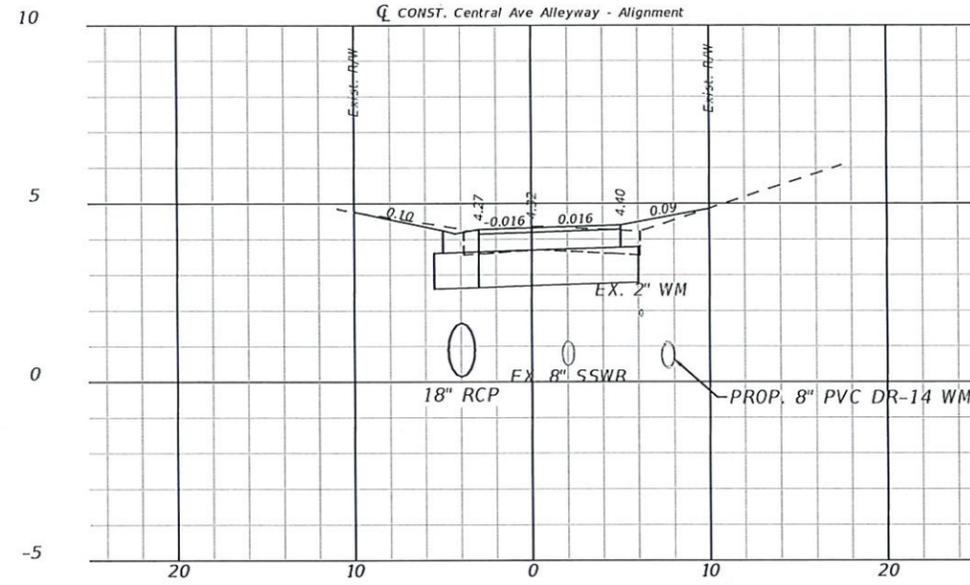
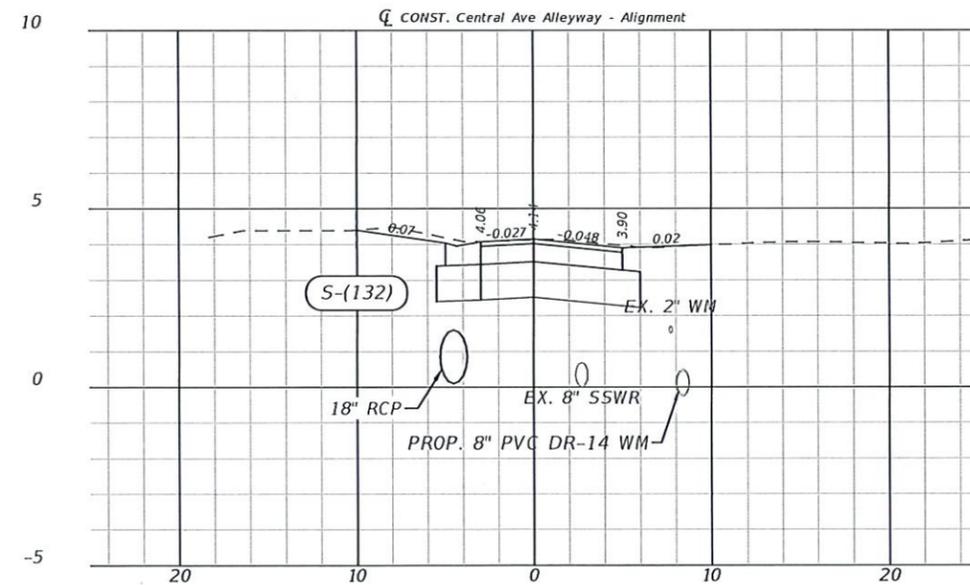


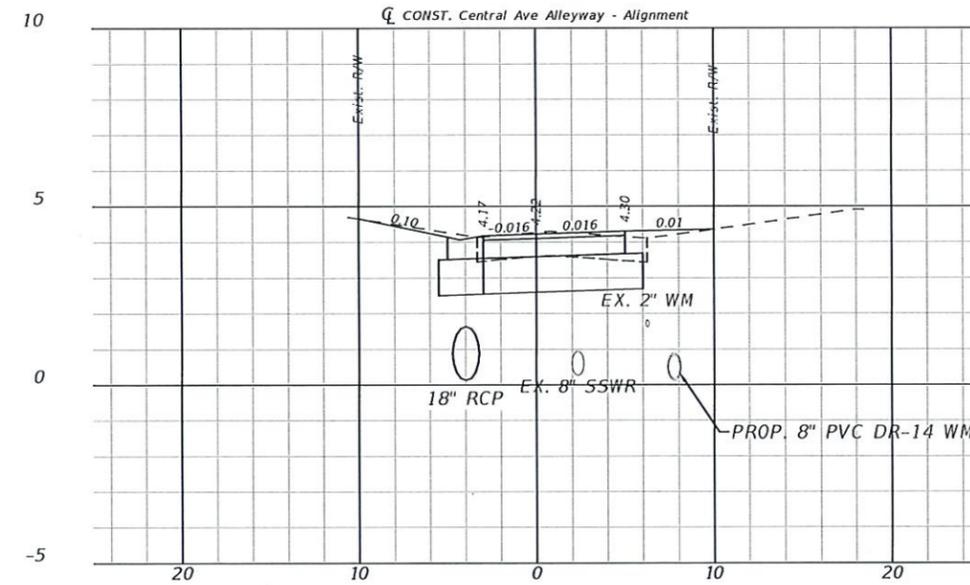
1+50.00



2+50.00



1+36.80



2+00.00

1" = 10' Horizontal  
1" = 5' Vertical

NO	DATE	REVISIONS	BY

CITY OF NAPLES  
295 RIVERSIDE CIRCLE  
NAPLES, FL 34102



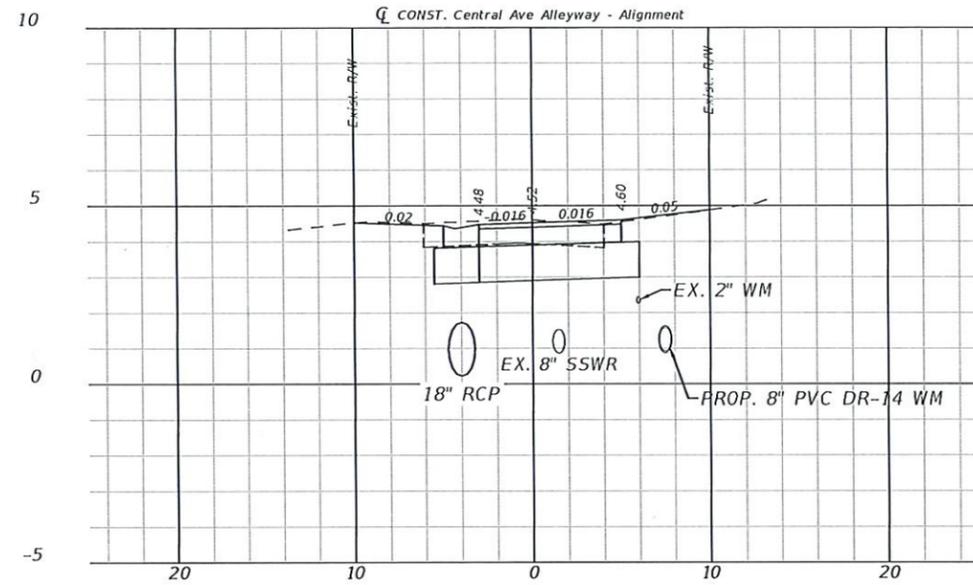
Engineering Firm Number: 31200  
Surveying Firm license: LB8569  
Collier County:  
7400 Troil Boulevard, Suite 200  
Naples, FL 34108  
P: 239.597.3111  
F: 239.566.2203

ABB FILE: 13965	DESIGNED BY: EFT
PROJECT No: 24-0177	DRAWN BY: MJB
PLAN STAGE: PHASE	CHECKED BY: CHECKED
DATE: July 2025	REVIEWED BY: REVIEWED
PLOT STYLE: 8000-ROAD.ctb	FILE NAME: 13965 - JSEC

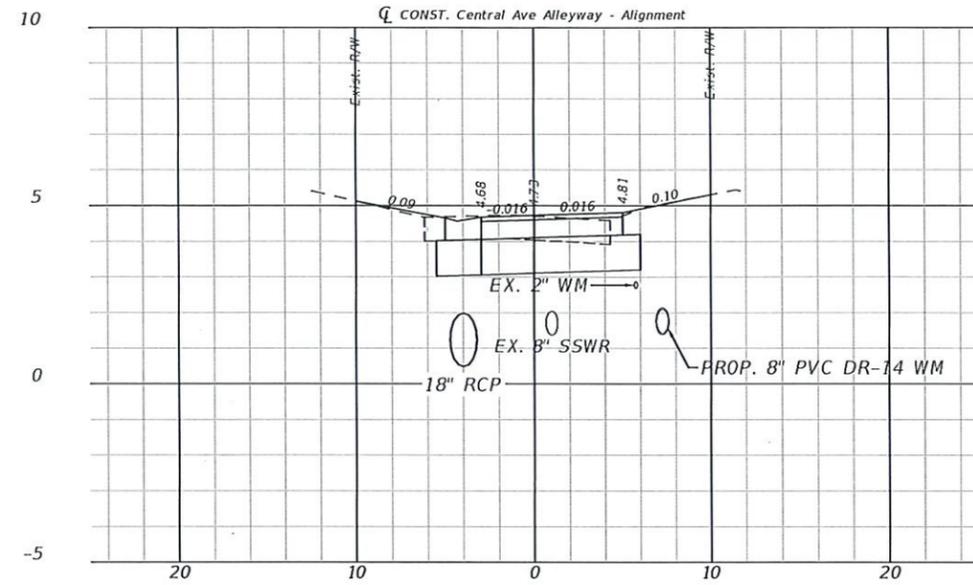
ALLEYWAY LOCATED BETWEEN  
CENTRAL AVE. AND 1ST AVE. NORTH  
CROSS SECTIONS  
STA. 1+00.00 TO STA. 2+50.00

SHEET  
18  
OF  
34

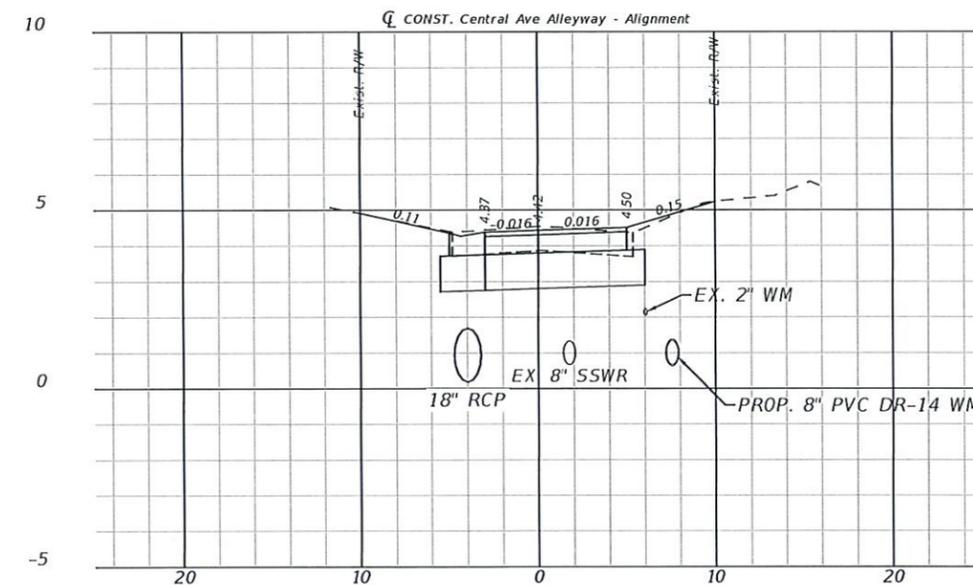
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



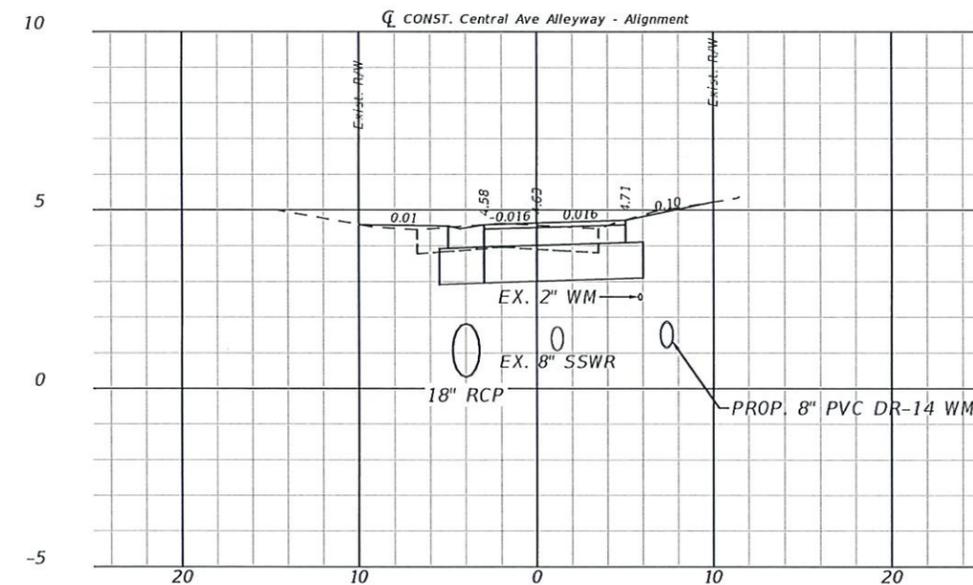
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4+50.00



3+00.00



4+00.00

1" = 10' Horizontal  
1" = 5' Vertical

NO.	DATE	REVISIONS	BY

CITY OF NAPLES

295 RIVERSIDE CIRCLE  
NAPLES, FL 34102



Engineering Firm Number: 31200  
Surveying Firm License: LB8569

Collier County:  
7400 Trail Boulevard, Suite 200  
Naples, FL 34108  
P: 239.597.3111  
F: 239.566.2203

ABB FILE: 13965	DESIGNED BY: EFT
PROJECT No: 24-0177	DRAWN BY: MJB
PLAN STAGE: PHASE	CHECKED BY: CHECKED
DATE: July 2025	REVIEWED BY: REVIEWED
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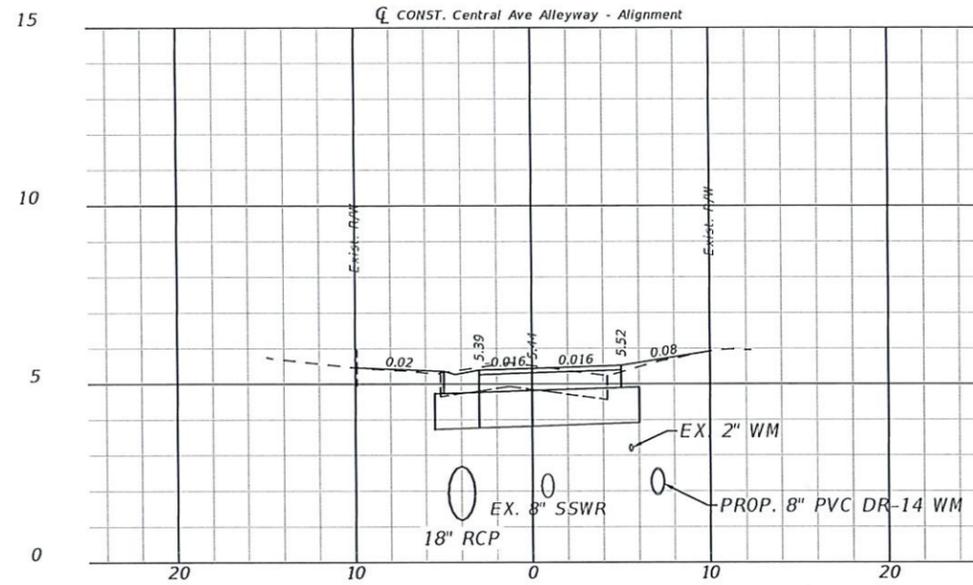
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CENTRAL AVE. AND 1ST AVE. NORTH

CROSS SECTIONS

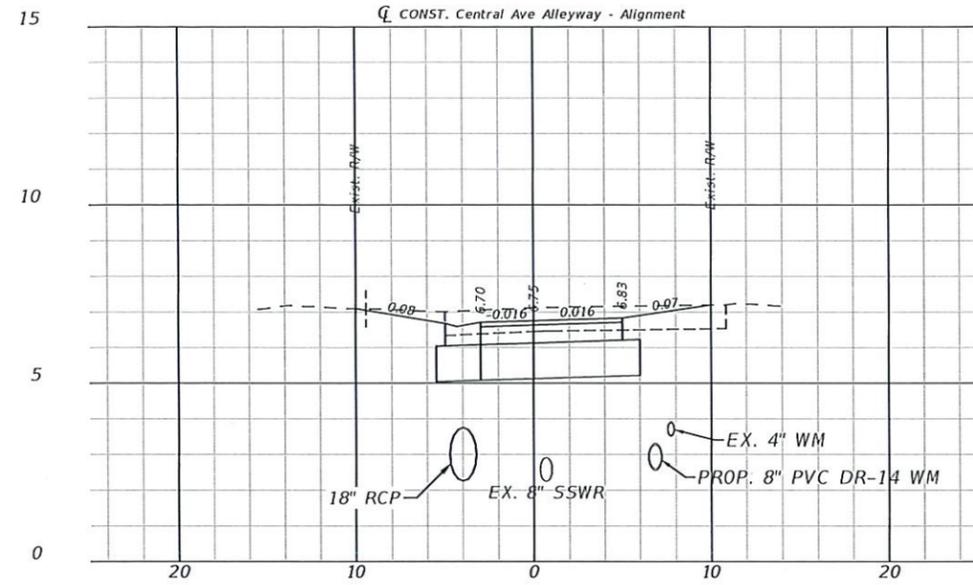
STA. 3+00.00 TO STA. 4+50.00

SHEET  
19  
OF  
34

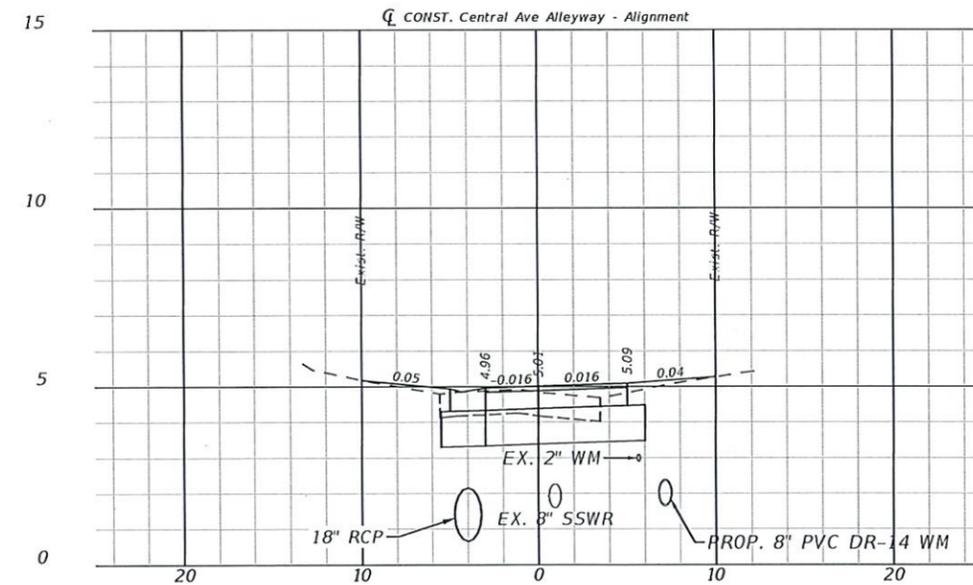
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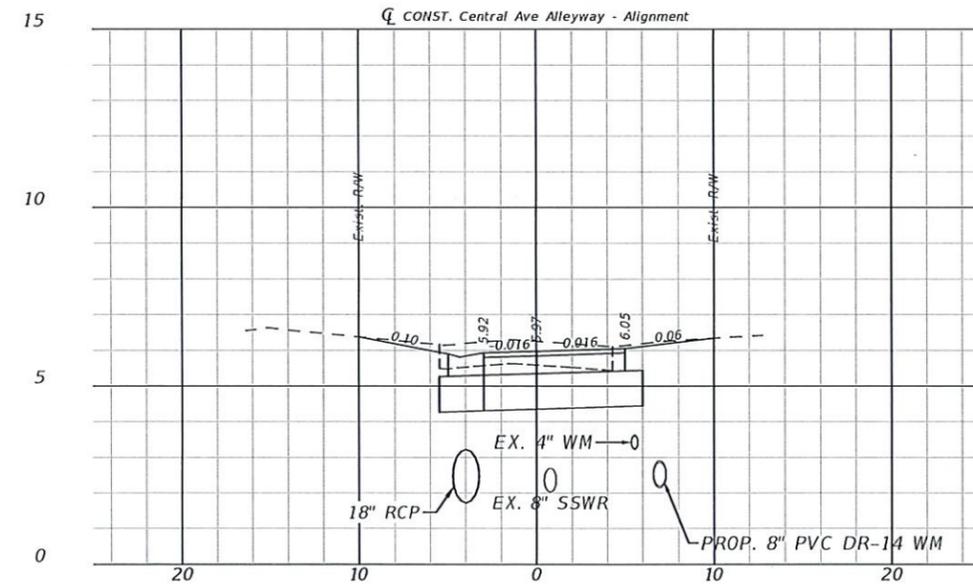
5+50.00



6+50.00



5+00.00



6+00.00

1" = 10' Horizontal  
1" = 5' Vertical

NO.	DATE	REVISIONS	BY

CITY OF NAPLES

295 RIVERSIDE CIRCLE  
NAPLES, FL 34102



Engineering Firm Number: 31200  
Surveying Firm license: LB8569  
Collier County:  
7400 Trail Boulevard, Suite 200  
Naples, FL 34108  
P: 239.597.3111  
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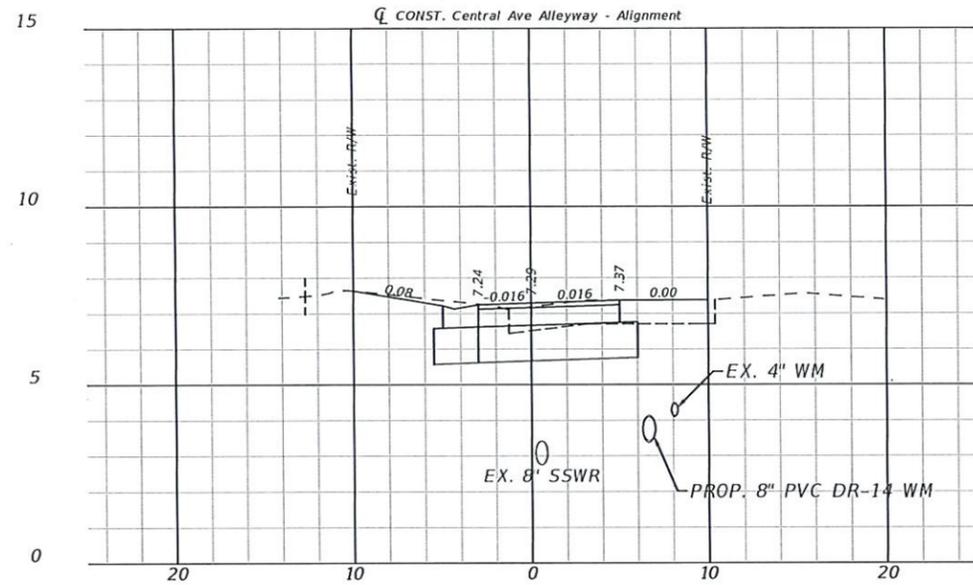
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PLAY STAGE: PHASE	CHECKED BY: CHECKED
DATE: July 2025	REVIEWED BY: REVIEWED
PLOT STYLE: 8200-ROAD.cib	FILE NAME: 13965 - ASEC

ALLEYWAY LOCATED BETWEEN  
CENTRAL AVE. AND 1ST AVE. NORTH

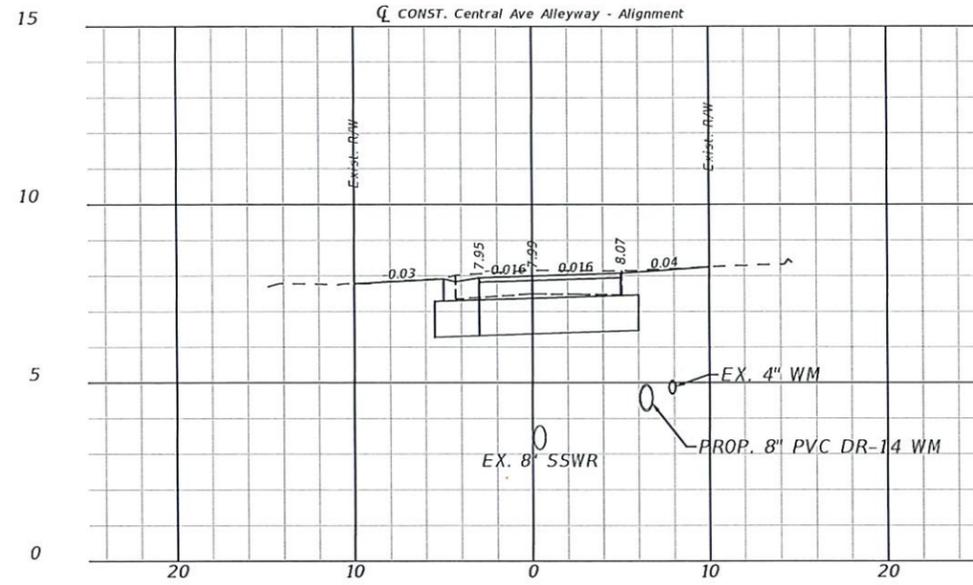
CROSS SECTIONS  
STA. 5+00.00 TO STA. 6+50.00

SHEET  
20  
OF  
34

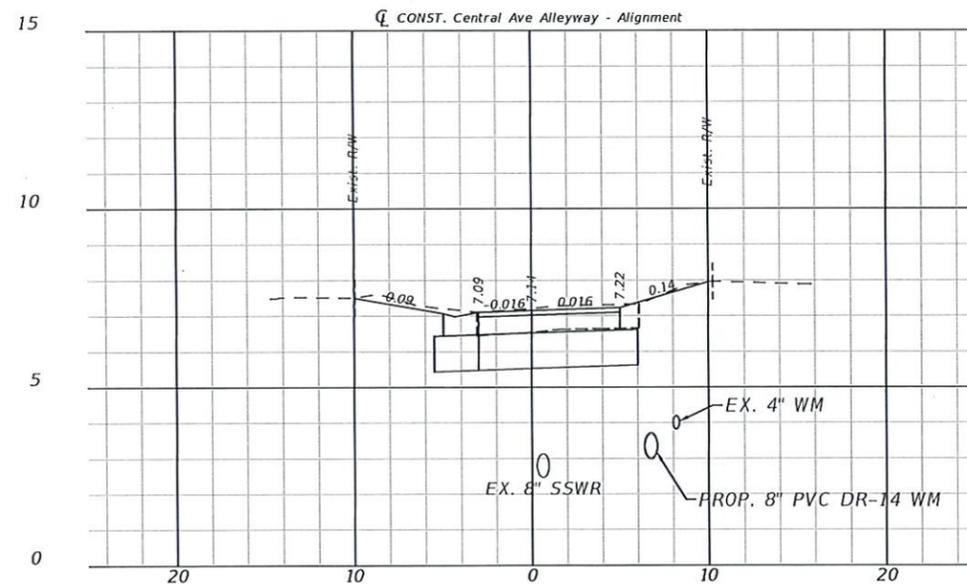
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



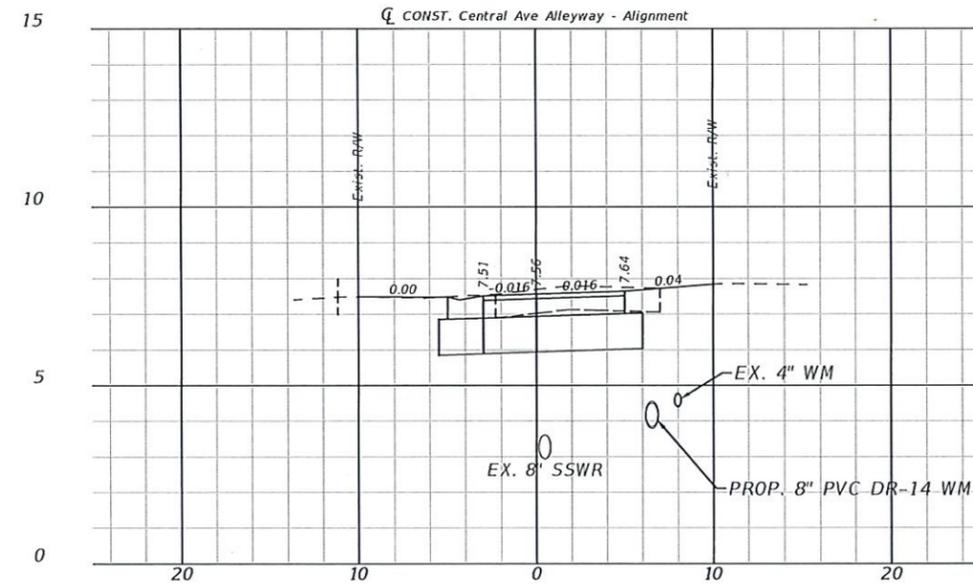
7+50.00



8+50.00



7+00.00



8+00.00

1" = 10' Horizontal  
1" = 5' Vertical

NO	DATE	REVISIONS	BY

CITY OF NAPLES

295 RIVERSIDE CIRCLE  
NAPLES, FL 34102



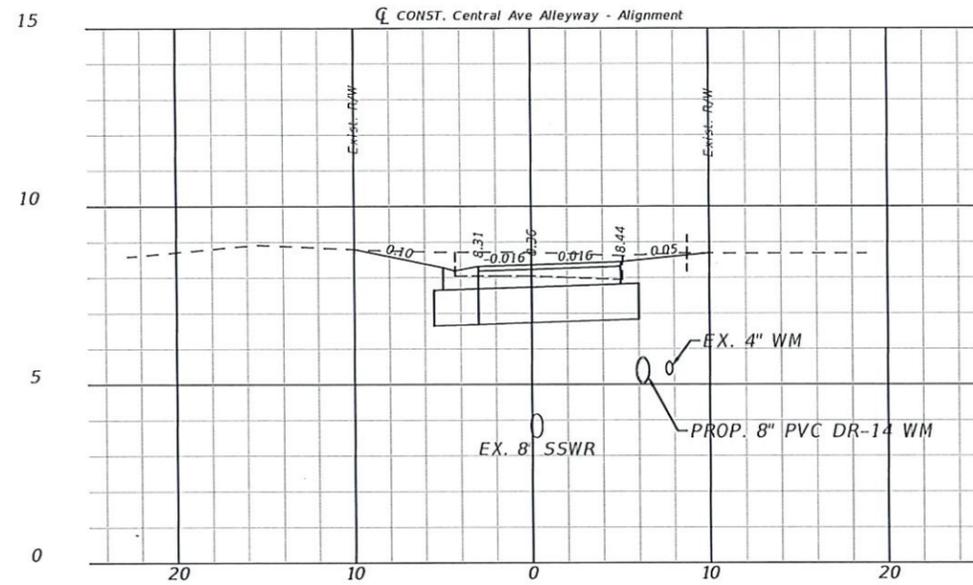
Engineering Firm Number: 31200  
Surveying Firm license: LB8569  
Collier County:  
7400 Trail Boulevard, Suite 200  
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P: 239.597.3111  
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ABB FILE: 13965	DESIGNED BY: EFT
PROJECT No: 24-0177	DRAWN BY: MJB
PLAN STAGE: PHASE	CHECKED BY: CHECKED
DATE: July 2025	REVIEWED BY: REVIEWED
PLOT STYLE: 8000-ROAD.ctb	FILE NAME: 13965 - ASEC

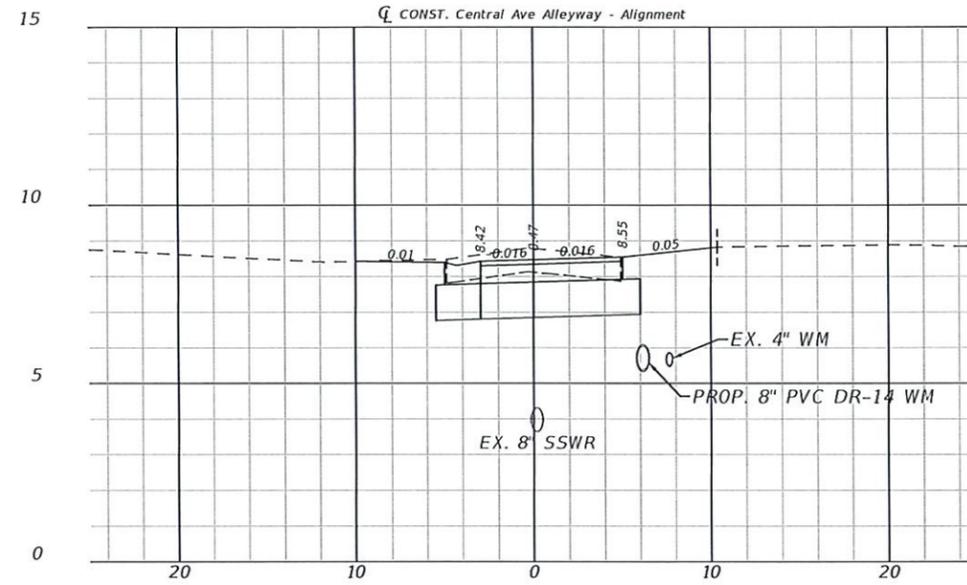
ALLEYWAY LOCATED BETWEEN  
CENTRAL AVE. AND 1ST AVE. NORTH  
CROSS SECTIONS  
STA. 7+00.00 TO STA. 8+50.00

SHEET  
21  
OF  
34

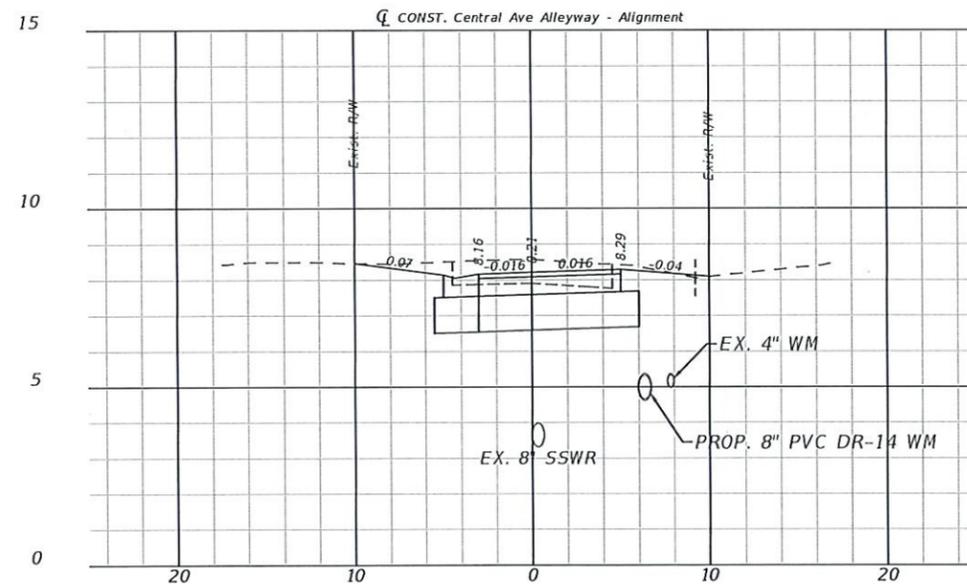
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



9+50.00



9+88.05



9+00.00

1" = 10' Horizontal  
1" = 5' Vertical

NO.	DATE	REVISIONS	BY

CITY OF NAPLES

295 RIVERSIDE CIRCLE  
NAPLES, FL 34102



Engineering Firm Number: 31200  
Surveying Firm license: LB8569

Collier County:  
7400 Trail Boulevard, Suite 200  
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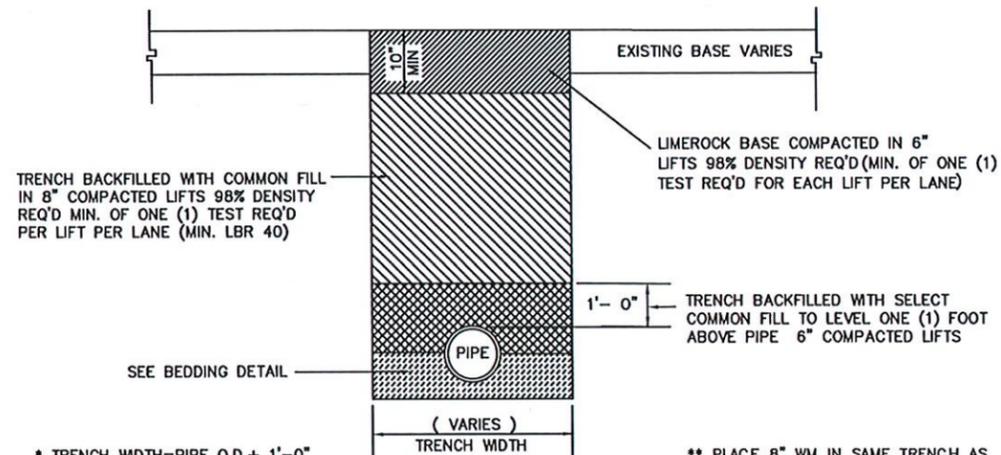
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PROJECT No: 24-0177	DRAWN BY: MJB
PLAN STAGE: PHASE	CHECKED BY: CHECKED
DATE: July 2025	REVIEWED BY: REVIEWED
PLOT STYLE: 8000-ROAD.ctb	FILE NAME: 13965 - ASEC

ALLEYWAY LOCATED BETWEEN  
CENTRAL AVE. AND 1ST AVE. NORTH

CROSS SECTIONS  
STA. 9+00.00 TO STA. 10+19.20

SHEET  
22  
OF  
34

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



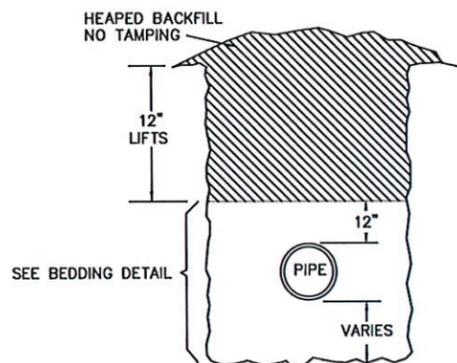
\* TRENCH WIDTH=PIPE O.D.+ 1'-0" OR 36" WHICHEVER IS GREATER.

\*\* PLACE 8" WM IN SAME TRENCH AS EXISTING 2"-4" WM. MAINTAIN MIN. 12" HORIZONTAL SEPARATION.

**LIMEROCK ROAD**

- NOTES: 1) ALL PROCTOR AND DENSITY TESTS SHALL BE TAKEN BY A CERTIFIED LABORATORY  
 2) ALL TESTS SHALL BE COMPLETED AND MEET MINIMUM DENSITY REQUIREMENTS PRIOR TO ADDITIONAL BACK-FILLING  
 3) ALL BACKFILL MATERIAL REQUIRES APPROVAL BY PROJECT ENGINEER

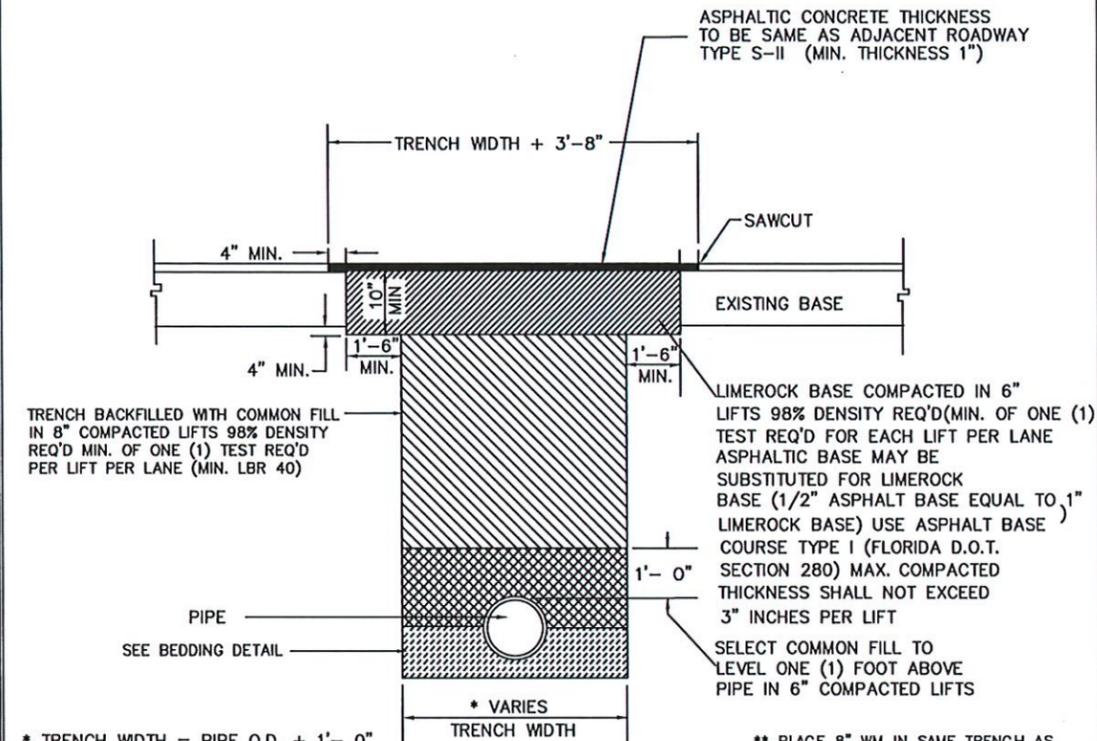
\*\*\*\*\* CONTRACTOR SHALL UTILIZE BEST METHODS AND PRACTICES TO CONTROL GROUND WATER DURING ENTIRE EXCAVATION, INSTALLATION, BACKFILL AND COMPACTION. INSTALLATION OF PIPELINE IN WET AND/OR FLOODED TRENCH IS NOT ACCEPTABLE. PROPER BEDDING AND COMPACTION CAN NOT BE ACCOMPLISHED IN WET AND/OR FLOODED TRENCH.



**OPEN TERRAIN**

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE:	JAN. 2016	SHEET: U-01
DRAWN:	DAG/AMH	DIR: UTILITIES
SCALE:	N.T.S.	DWG. U-01-16.DWG
	380 RIVERSIDE CIRCLE, NAPLES, FLORIDA, 34102	



\* TRENCH WIDTH = PIPE O.D. + 1'- 0" OR 36" WHICHEVER IS GREATER.

\*\* PLACE 8" WM IN SAME TRENCH AS EXISTING 2"-4" WM. MAINTAIN MIN. 12" HORIZONTAL SEPARATION.

- NOTES: 1) ALL PROCTOR AND DENSITY TESTS SHALL BE TAKEN BY A CERTIFIED LABORATORY  
 2) ALL TESTS SHALL BE COMPLETED AND MEET MINIMUM DENSITY REQUIREMENTS PRIOR TO ADDITIONAL BACK-FILLING  
 3) ORDINANCE 82-91 REQUIRES A R.O.W. PERMIT FOR ALL WORK WITHIN PUBLIC ROADS. THE R.O.W. PERMIT REQUIREMENTS SHALL SUPERSEDE THIS DETAIL.

\*\*\*\*\* CONTRACTOR SHALL UTILIZE BEST METHODS AND PRACTICES TO CONTROL GROUND WATER DURING ENTIRE EXCAVATION, INSTALLATION, BACKFILL AND COMPACTION. INSTALLATION OF PIPELINE IN WET AND/OR FLOODED TRENCH IS NOT ACCEPTABLE. PROPER BEDDING AND COMPACTION CAN NOT BE ACCOMPLISHED IN WET AND/OR FLOODED TRENCH.

\*\*\*\*\* INSTALLATION OF ANY WATER, WASTEWATER, OR RECLAIM WATER LINE REQUIRED TO PASS UNDER OR TRENCHING CAUSING UNDERMINING OF ANY EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK; TUNNELING UNDER IS NOT ALLOWED. ANY AFFECTED CONCRETE CURB, GUTTER, OR SIDEWALK SHALL BE CLEANLY REMOVED (ALL SECTIONS AFFECTED, 5 FT MINIMUM), FULL BACKFILL AND PROPER COMPACTION PERFORMED, CONCRETE REPLACED REQUIRING A MINIMUM OF 5 FT BETWEEN EXPANSION JOINTS.

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE:	JAN. 2016	SHEET: U-02
DRAWN:	DAG/AMH	DIR: UTILITIES
SCALE:	N.T.S.	DWG. U-02-16.DWG
	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	

NO	DATE	REVISIONS	BY

CITY OF NAPLES  
 295 RIVERSIDE CIRCLE  
 NAPLES, FL 34102

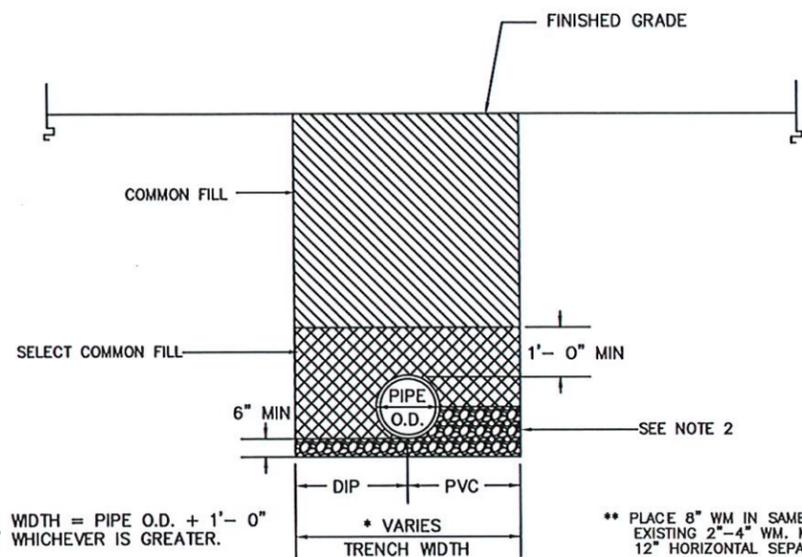


Engineering Firm Number: 31200  
 Surveying Firm License: LB8569  
 Collier County:  
 7400 Trail Boulevard, Suite 200  
 Naples, FL 34108  
 P: 239.597.3111  
 F: 239.566.2203

ABB FILE:	DESIGNED BY:
13965	EFT
PROJECT No:	DRAWN BY:
24-0177	MJB
PLAN STAGE:	CHECKED BY:
PHASE	CHECKED
DATE:	REVIEWED BY:
August 2022	REVIEWED
PLOT STYLE:	FILE NAME:
8000-ROAD.ctb	13965 - DTL5

ALLEYWAY LOCATED BETWEEN  
 CENTRAL AVE. AND 1ST AVE. NORTH  
 UTILITY DETAILS - 1

SHEET  
 23  
 OF  
 34



\* TRENCH WIDTH = PIPE O.D. + 1'- 0" OR 36" WHICHEVER IS GREATER.

\* VARIES TRENCH WIDTH

\*\* PLACE 8" WM IN SAME TRENCH AS EXISTING 2"-4" WM. MAINTAIN MIN. 12" HORIZONTAL SEPARATION.

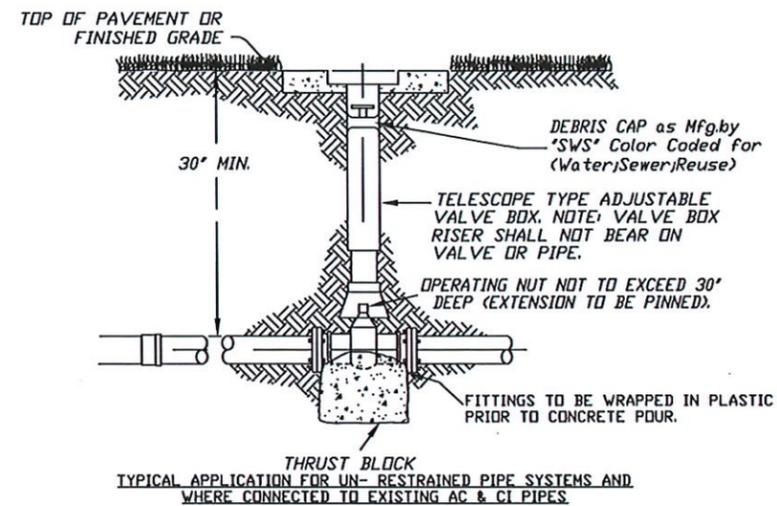
- NOTES: 1) COMMON FILL SHALL BE COMPACTED TO MATCH CRITERIA PROVIDED IN BACKFILL DETAILS FOR PAVED AND UNPAVED LOCATIONS RESPECTIVELY.
- 2) BEDDING MATERIAL SHALL BE FDOT #57 STONE IF BELOW THE SEASONAL LOW GROUNDWATER TABLE, OR FDOT #89 STONE, FDOT #131 OR #132 SCREENING IF ABOVE THE SEASONAL LOW GROUNDWATER TABLE.
- 3) ORDINANCE 82-91 REQUIRES A R.O.W. PERMIT FOR ALL WORK WITHIN PUBLIC ROADS. THE R.O.W. PERMIT REQUIREMENTS SHALL SUPERSEDE THIS DETAIL.

\*\*\*\*\* CONTRACTOR SHALL UTILIZE BEST METHODS AND PRACTICES TO CONTROL GROUND WATER DURING ENTIRE EXCAVATION, INSTALLATION, BACKFILL AND COMPACTION. INSTALLATION OF PIPELINE IN WET AND/OR FLOODED TRENCH IS NOT ACCEPTABLE. PROPER BEDDING AND COMPACTION CAN NOT BE ACCOMPLISHED IN WET AND/OR FLOODED TRENCH.

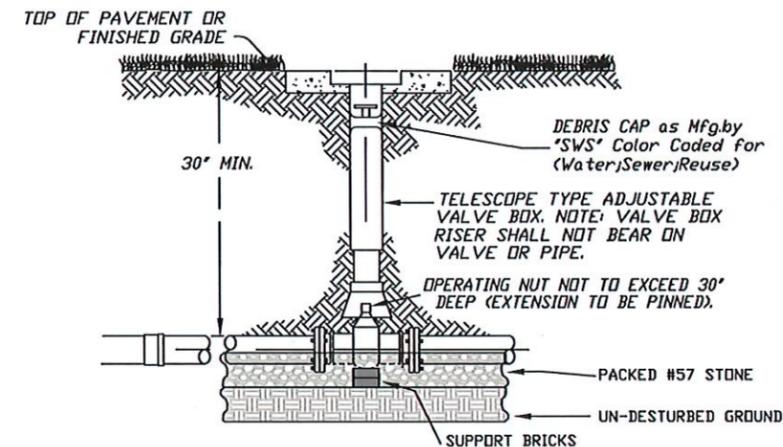
\*\*\*\*\* INSTALLATION OF ANY WATER, WASTEWATER, OR RECLAIM WATER LINE REQUIRED TO PASS UNDER OR TRENCHING CAUSING UNDERMINING OF ANY EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK; TUNNELING UNDER IS NOT ALLOWED. ANY AFFECTED CONCRETE CURB, GUTTER, OR SIDEWALK SHALL BE CLEANLY REMOVED (ALL SECTIONS AFFECTED, 5 FT MINIMUM), FULL BACKFILL AND PROPER COMPACTION PERFORMED, CONCRETE REPLACED REQUIRING A MINIMUM OF 5 FT BETWEEN EXPANSION JOINTS.

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

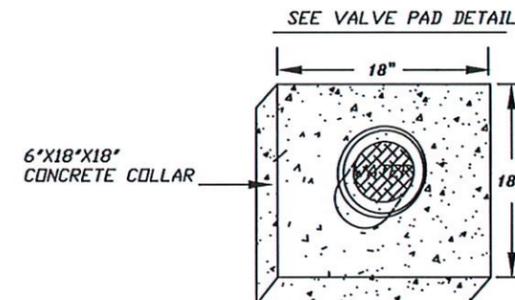
FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE: JAN. 2016	PIPE BEDDING & BACKFILL	SHEET: U-03
DRAWN: DAG/AMH		DIR: UTILITIES
SCALE: N.T.S.	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	DWG. U-03-16.DWG



TYPICAL APPLICATION FOR UN-RESTRAINED PIPE SYSTEMS AND WHERE CONNECTED TO EXISTING AC & CI PIPES



TYPICAL APPLICATION FOR NEW RESTRAINED PIPE SYSTEMS



THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE: JAN. 2016	TYPICAL IN-LINE VALVE (WATER/SEWER/REUSE)	SHEET: U-14
DRAWN: DAG/AMH		DIR: UTILSTDS
SCALE: N.T.S.	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	DWG. U-14-16.DWG

NO.	DATE	REVISIONS	BY

CITY OF NAPLES  
295 RIVERSIDE CIRCLE  
NAPLES, FL 34102

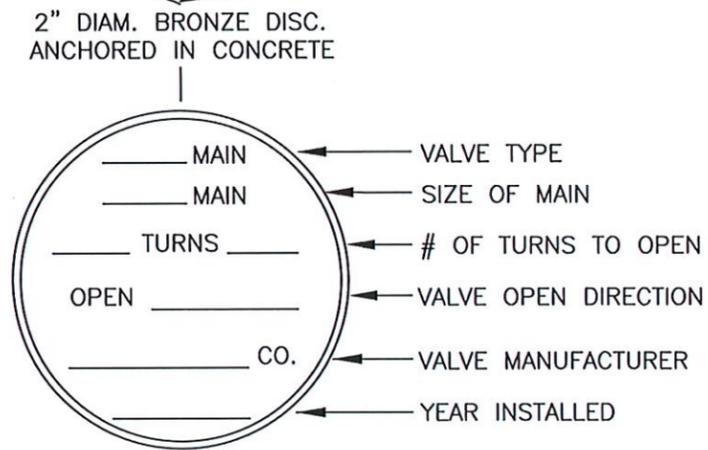
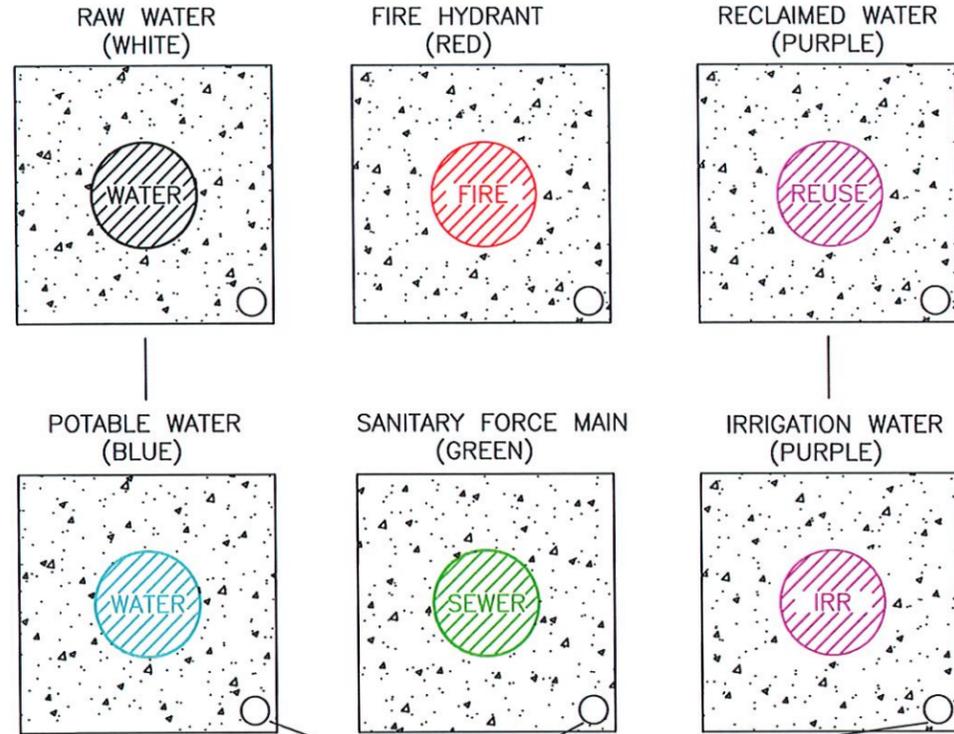


Engineering Firm Number: 31200  
Surveying Firm license: LB8569  
Collier County:  
7400 Trail Boulevard, Suite 200  
Naples, FL 34108  
P: 239.597.3111  
F: 239.566.2203

ABB FILE: 13965	DESIGNED BY: EFT
PROJECT No: 24-0177	DRAWN BY: MJB
PLAN STAGE: PHASE	CHECKED BY: CHECKED
DATE: August 2022	REVIEWED BY: REVIEWED
PLOT STYLE: 8000-ROAD.ctb	FILE NAME: 13965 - DTLS

ALLEYWAY LOCATED BETWEEN CENTRAL AVE. AND 1ST AVE. NORTH  
UTILITY DETAILS - 2

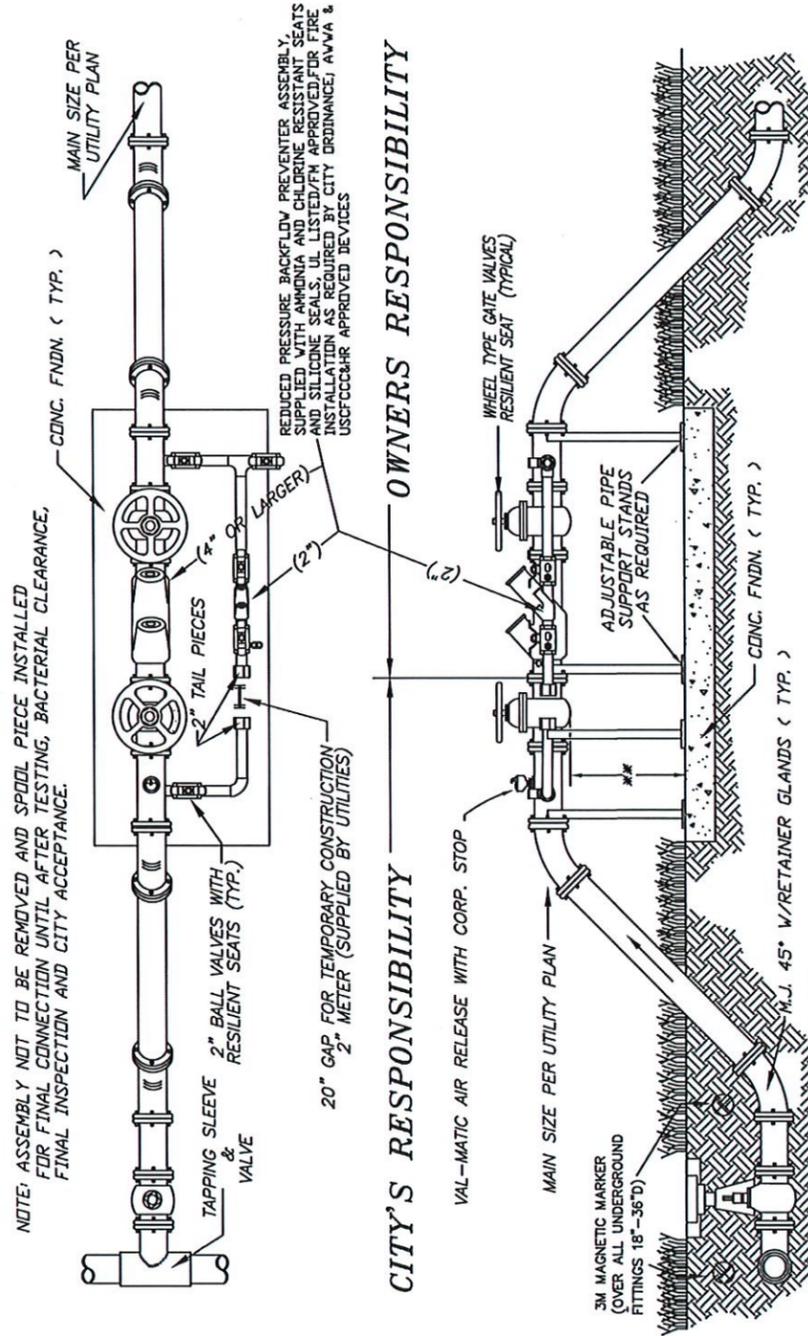
SHEET 24 OF 34



VALVE PAD DETAIL

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE: JAN. 2016	VALVE PAD DETAIL	SHEET: U-15
DRAWN: DAG/AMH		DIR: UTILSTDS
SCALE: N.T.S.		DWG. U-15-16.DWG
	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	



THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE: JAN. 2016	TEMPORARY BACKFLOW PREVENTERS & CONSTRUCTION TIE-IN ASSEMBLY	SHEET: W-05
DRAWN: DAG/AMH		DIR: WATER
SCALE: N.T.S.		DWG. W-05-16.DWG
	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	

- NOTES:
- 1) ALL ABOVE GROUND PIPE WILL HAVE FLANGED END D.I.P. CLASS 51
  - 2) ALL NUTS & BOLTS SHALL BE 316 STAINLESS STEEL
  - 3) ASSEMBLY IS REQUIRED TO BE FLUSHED, CHLORINATED AND BACTERIAL CLEARED BEFORE PLACEMENT IN SERVICE.
  - 4) BACKFLOW UNIT REQUIRES INITIAL CERTIFICATION BY CITY OF NAPLES WATER DEPARTMENT (Backflow Division).
  - 5) CONTRACTOR IS REQUIRED TO PROVIDE 8' OF 3/8 CHAIN AT TIME OF INSTALLATION.
  - 6) INSPECTIONS ARE REQUIRED FOR SYSTEM TIE-IN AND ASSEMBLY CONNECTION.
- MINIMUM ABOVE FINAL GRADE.  
Dimension Taken From Lowest Point on Assembly)

NO.	DATE	REVISIONS	BY

CITY OF NAPLES  
295 RIVERSIDE CIRCLE  
NAPLES, FL 34102

**LJA**  
EMPLOYEE-OWNED.  
CLIENT FOCUSED.

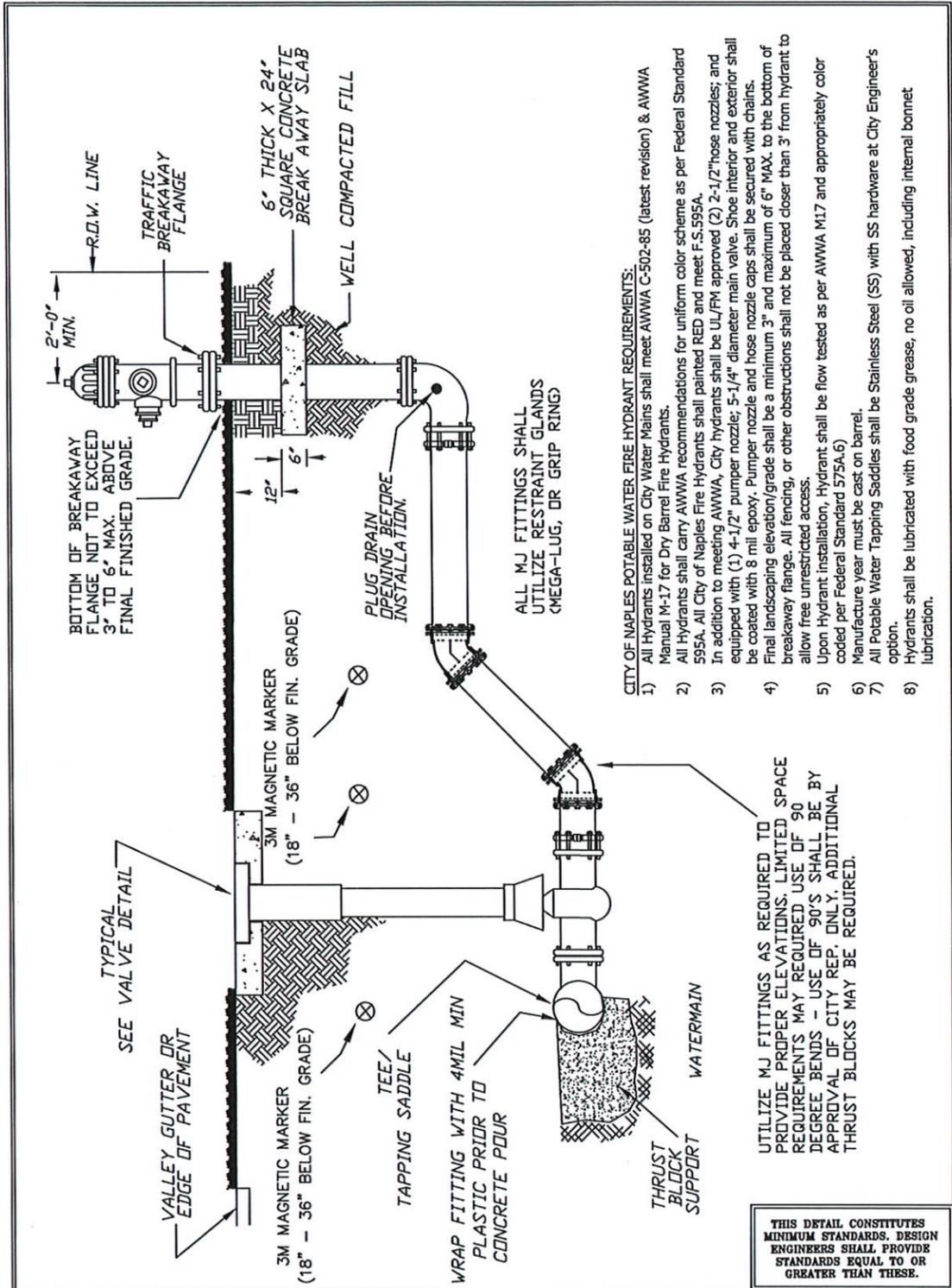
Engineering Firm Number: 31200  
Surveying Firm License: LB8569

Collier County:  
7400 Trail Boulevard, Suite 200  
Naples, FL 34108  
P: 239.597.3111  
F: 239.566.2203

ABB FILE: 13965	DESIGNED BY: EFT
PROJECT No: 24-0177	DRAWN BY: NJB
PLAN STAGE: PHASE	CHECKED BY: CHECKED
DATE: August 2022	REVIEWED BY: REVIEWED
PLOT STYLE: 8000-ROAD.ctb	FILE NAME: 13965 - DTLS

ALLEYWAY LOCATED BETWEEN CENTRAL AVE. AND 1ST AVE. NORTH  
UTILITY DETAILS - 3

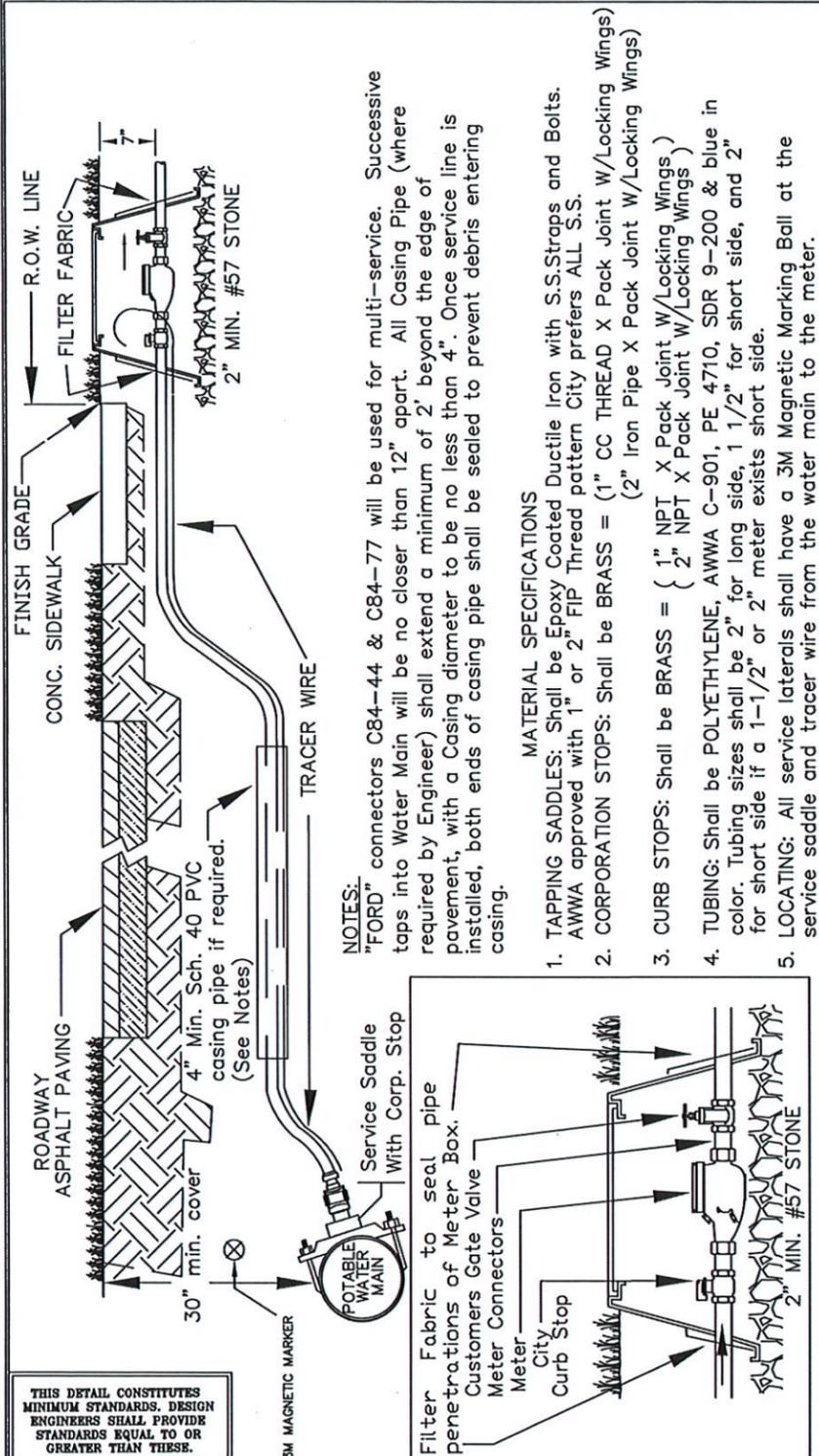
SHEET	25
OF	34



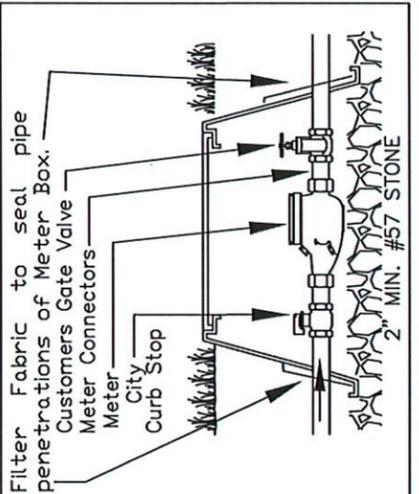
- CITY OF NAPLES POTABLE WATER FIRE HYDRANT REQUIREMENTS:**
- 1) All Hydrants installed on City Water Mains shall meet AWWA C-502-85 (latest revision) & AWWA Manual M-17 for Dry Barrel Fire Hydrants.
  - 2) All Hydrants shall carry AWWA recommendations for uniform color scheme as per Federal Standard 595A. All City of Naples Fire Hydrants shall be UL/FM approved (2) 2-1/2" hose nozzles; and equipped with (1) 4-1/2" pumper nozzle; 5-1/4" diameter main valve. Shoe interior and exterior shall be coated with 8 mil epoxy. Pumper nozzle and hose nozzle caps shall be secured with chains.
  - 3) Final landscaping elevation/grade shall be a minimum 3" and maximum of 6" MAX. to the bottom of breakaway flange. All fencing, or other obstructions shall not be placed closer than 3' from hydrant to allow free unrestricted access.
  - 4) Upon Hydrant installation, Hydrant shall be flow tested as per AWWA M17 and appropriately color coded per Federal Standard 575A.6)
  - 5) All Potable Water Tapping Saddles shall be Stainless Steel (SS) with SS hardware at City Engineer's option.
  - 6) Hydrants shall be lubricated with food grade grease, no oil allowed, including internal bonnet lubrication.

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE:	JAN. 2016	SHEET: W-12
DRAWN:	DAG/AMH	DIR: WATER
SCALE:	N.T.S.	DWG. W-12-16.DWG
	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	



- NOTES:**
- "FORD" connectors C84-44 & C84-77 will be used for multi-service. Successive taps into Water Main will be no closer than 12" apart. All Casing Pipe (where required by Engineer) shall extend a minimum of 2' beyond the edge of pavement, with a Casing diameter to be no less than 4". Once service line is installed, both ends of casing pipe shall be sealed to prevent debris entering casing.
- MATERIAL SPECIFICATIONS**
1. TAPPING SADDLES: Shall be Epoxy Coated Ductile Iron with S.S.Straps and Bolts. AWWA approved with 1" or 2" FIP Thread pattern City prefers ALL S.S.
  2. CORPORATION STOPS: Shall be BRASS = (1" CC THREAD X Pack Joint W/Locking Wings) (2" Iron Pipe X Pack Joint W/Locking Wings)
  3. CURB STOPS: Shall be BRASS = ( 1" NPT X Pack Joint W/Locking Wings ) ( 2" NPT X Pack Joint W/Locking Wings )
  4. TUBING: Shall be POLYETHYLENE, AWWA C-901, PE 4710, SDR 9-200 & blue in color. Tubing sizes shall be 2" for long side, 1 1/2" for short side, and 2" for short side if a 1-1/2" or 2" meter exists short side.
  5. LOCATING: All service laterals shall have a 3M Magnetic Marking Ball at the service saddle and tracer wire from the water main to the meter.



- 6. METER BOXES:**
- 5/8" & 3/4" METERS REQUIRE A CARSON #1419 PLASTIC METER BOX (MAINLY USED IN NONTRAFFIC AREAS)
  - 5/8" & 3/4" METERS REQUIRE A CARSON #B1324 CONCRETE BOX W/TRAFFIC RATED LID (USED IN TRAFFIC AREAS)
  - 1" METERS REQUIRE A CARSON #1324 PLASTIC METER BOX (MAINLY USED IN NONTRAFFIC AREAS)
  - 1" METERS REQUIRE A CARSON #B1324 CONCRETE BOX W/TRAFFIC RATED LID (MAINLY USED IN TRAFFIC AREAS)
  - 1.5" & 2" METERS REQUIRE A CARSON #1730 PLASTIC METER BOX (MAINLY USED IN NON-TRAFFIC AREAS)
  - 1.5" & 2" METERS REQUIRE A CARSON #B1730 CONCRETE BOX W/TRAFFIC RATED LID ( USED IN TRAFFIC AREAS)

NOTE: ANY SUBMETERS DOWNSTREAM OF METER DEPICTED ON THIS DWG. SHALL BE OWNED AND MAINTAINED BY DEVELOPER

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE:	JAN. 2016	SHEET: W-13
DRAWN:	DAG/AMH	DIR: WATER
SCALE:	N.T.S.	DWG. W-13-16.DWG
	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	

NO.	DATE	REVISIONS	BY

CITY OF NAPLES  
295 RIVERSIDE CIRCLE  
NAPLES, FL 34102

**LJA**  
Engineering Firm Number: 31200  
Surveying Firm license: LB8569

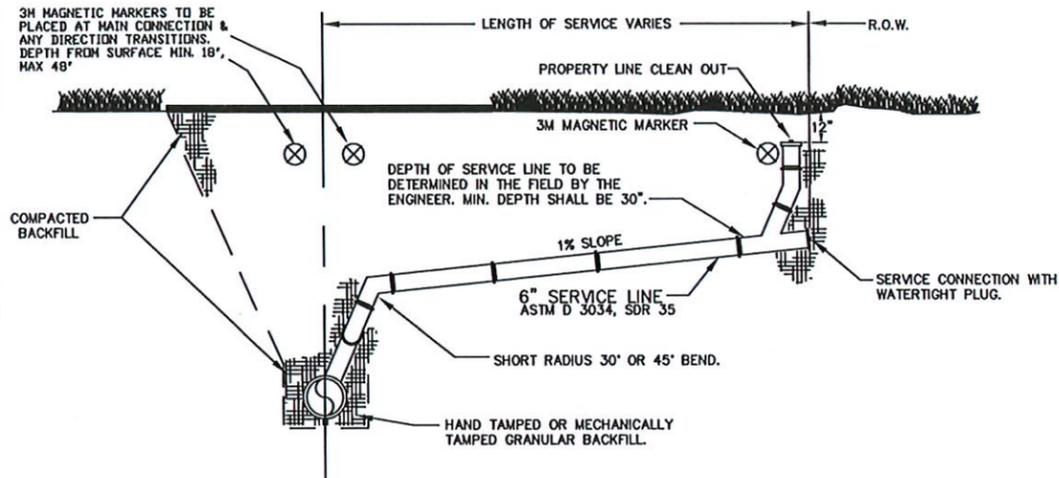
Collier County:  
7400 Trail Boulevard, Suite 200  
Naples, FL 34108  
P: 239.597.3111  
F: 239.566.2203

APP FILE:	DESIGNED BY:
13965	EFT
PROJECT No:	DRAWN BY:
24-0177	MJB
PLAN STAGE:	CHECKED BY:
PHASE	CHECKED
DATE:	REVIEWED BY:
August 2022	REVIEWED
PLOT STYLE:	FILE NAME:
6000-ROAD.ctb	13965 - 0115

ALLEYWAY LOCATED BETWEEN  
CENTRAL AVE. AND 1ST AVE. NORTH

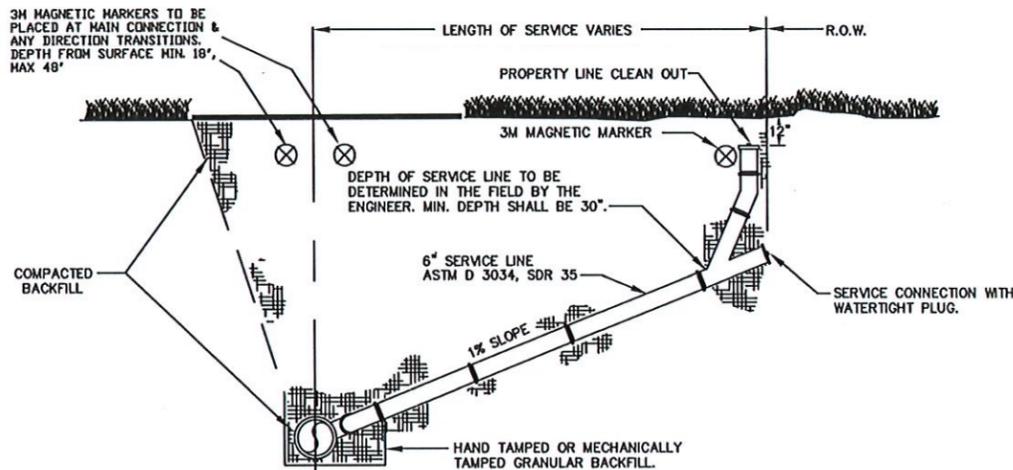
UTILITY DETAILS - 4

SHEET	26
OF	34



NOTE: HOUSE SERVICE SEWER SHALL BE INSTALLED AT GRADE OF NOT LESS THAN 1/8" PER FOOT NOR MORE THAN 1 3/4" PER FOOT.

**DEEP LATERAL (OVER 8' DEEP)**



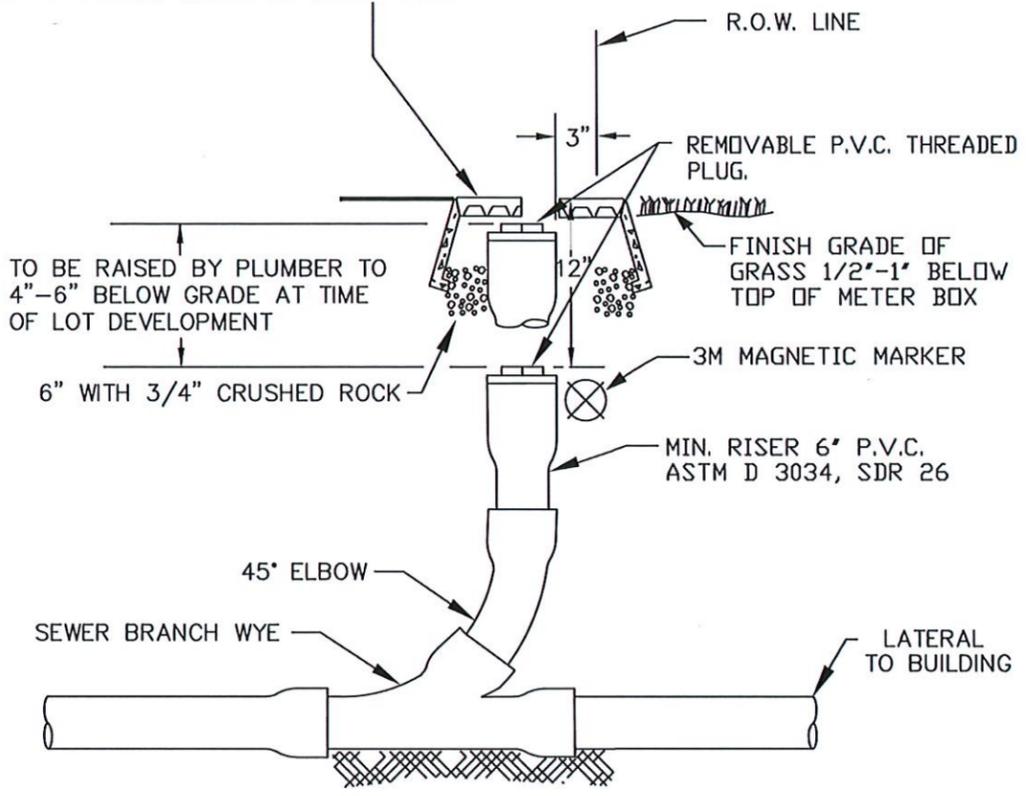
NOTE: HOUSE SERVICE SEWER SHALL BE INSTALLED AT GRADE OF NOT LESS THAN 1/8" PER FOOT NOR MORE THAN 1 3/4" PER FOOT.

**STANDARD LATERAL (UNDER 8' DEEP)**

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE:	JAN. 2016	SHEET: WW-01
DRAWN:	DAG/AMH	DIR: WASTEWATER
SCALE:	N.T.S.	DWG. WW-01-16.DWG
	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	

CLEAN-OUT COVER BOX SHALL BE:  
 US FOUNDRY 7630 IN PAVEMENT AREA; OR CARSON #1419 W/COVER GREEN METER BOX IN GRASS AREA; RIM AND COVER SHALL BE FLUSH WITH PAVEMENT OR 1/2"-1" ABOVE GRADE IN GRASS AREA.



NOTE: DETAIL SHOWS FINISHED CONFIGURATION AFTER LOT DEVELOPMENT.

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. DESIGN ENGINEERS SHALL PROVIDE STANDARDS EQUAL TO OR GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE:	JAN. 2016	SHEET: WW-02
DRAWN:	DAG/AMH	DIR: WASTEWATER
SCALE:	N.T.S.	DWG. WW-02-16.DWG
	380 RIVERSIDE CIRCLE, NAPLES, FL. 34102	

NO.	DATE	REVISIONS	BY

CITY OF NAPLES  
 295 RIVERSIDE CIRCLE  
 NAPLES, FL 34102

**LJA**  
 Engineering Firm Number: 31200  
 Surveying Firm license: LB8569  
 Collier County:  
 7400 Trail Boulevard, Suite 200  
 Naples, FL 34108  
 P: 239-597-3111  
 F: 239-566-2203

ABB FILE:	DESIGNED BY:
13965	EFT
PROJECT No:	DRAWN BY:
24-0177	MJB
PLAN STAGE:	CHECKED BY:
PHASE	CHECKED
DATE:	REVIEWED BY:
August 2022	REVIEWED
PLOT STYLE:	FILE NAME:
8000-ROAD.ctb	13965 - DTLS

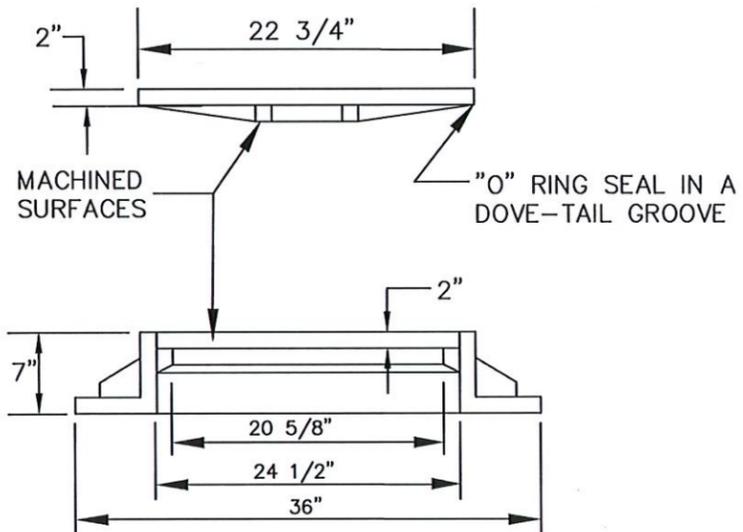
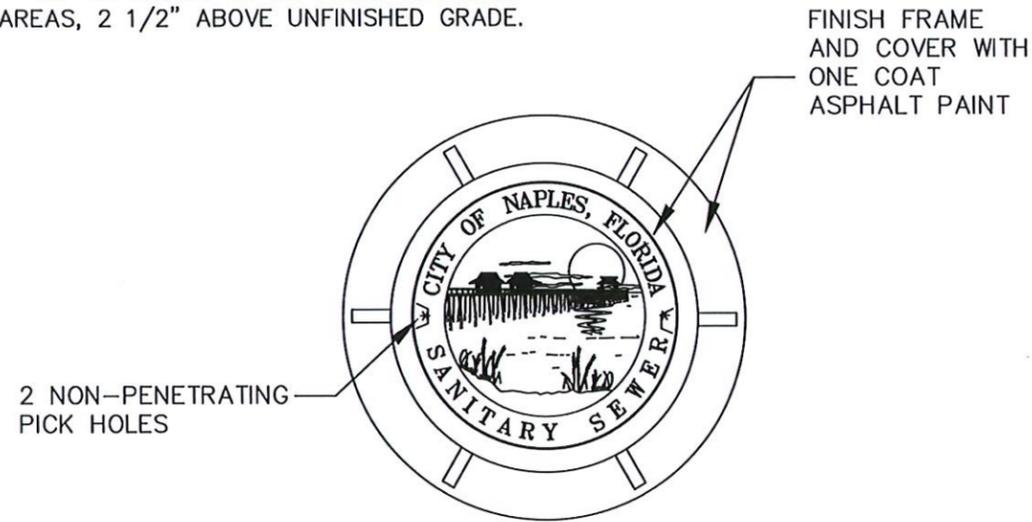
ALLEYWAY LOCATED BETWEEN  
 CENTRAL AVE. AND 1ST AVE. NORTH  
 UTILITY DETAILS - 5

SHEET  
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 OF  
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**NOTES:**

USF 420 KD OF ASTM-A48 CLASS 30 GREY  
 CAST IRON WATERTIGHT MANHOLE FRAME  
 AND COVER; E.J. 1072 FRAME & COVER, OR  
 APPROVED EQUAL.  
 - TOP OF COVER TO BE FLUSH IN PAVED  
 AREAS, 2 1/2" ABOVE UNFINISHED GRADE.



THIS DETAIL CONSTITUTES  
 MINIMUM STANDARDS. DESIGN  
 ENGINEERS SHALL PROVIDE  
 STANDARDS EQUAL TO OR  
 GREATER THAN THESE.

FOR:	UTILITIES DEPARTMENT	CITY OF NAPLES
DATE:	JAN. 2016	SHEET: WW-09
DRAWN:	DAG/AMH	DIR: WASTEWATER
SCALE:	N.T.S.	DWG. WW-09-16.DWG

NO.	DATE	REVISIONS	BY

CITY OF NAPLES  
  
 295 RIVERSIDE CIRCLE  
 NAPLES, FL 34102



Engineering Firm Number: 31200  
 Surveying Firm license: LB8569  
  
 Collier County:  
 7400 Trail Boulevard, Suite 200  
 Naples, FL 34108  
 P: 239.597.3111  
 F: 239.566.2203

ABB FILE:	DESIGNED BY:
13965	EFT
PROJECT No:	DRAWN BY:
24-0177	MJB
PLAN STAGE:	CHECKED BY:
PHASE	CHECKED
DATE:	REVIEWED BY:
August 2022	REVIEWED
PLOT STYLE:	FILE NAME:
8000-ROAD.ctb	13965 - DFLS

ALLEYWAY LOCATED BETWEEN  
 CENTRAL AVE. AND 1ST AVE. NORTH  
  
 UTILITY DETAILS - 6

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 28  
 OF  
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SITE DESCRIPTION			
Project Name and Location: (Latitude, Longitude, or Address) of Project Outfall	ALLEYWAY LOCATED BETWEEN AVE. AND 1 <sup>ST</sup> AVE. NORTH 26°08'48.67"N 81°48'18.92"W	Owner Name and Address:	CITY OF NAPLES PUBLIC WORKS DEPARTMENT 295 RIVERSIDE CIRCLE NAPLES, FL 34102
Description:(Purpose and Types of Soil Disturbing Activities)	Construction of this project will generally consist of site clearing, new alleyway construction, driveway replacements, concrete valley gutter, underground utilities and stormwater management drainage pipe.  Soil disturbing activities will include: Erosion and sediment controls, clearing and grubbing, grading, excavation for the storm sewer and utilities, construction of pavements, and preparation for final sodding.		
Runoff Coefficient:			
Site Area:	0.44 Ac		
Sequence of Major Activities:	The order of activities will be as follows:		
1. Partial clearing and grubbing. 2. Install silt fences and ditch checks. 3. Continue clearing and grading. 4. Install storm drainage and utilities. 5. Alleyway and driveway construction. 6. Swale regrading,	7. Stabilize denuded areas with sod. 8. Complete grading and install permanent sod 9. When all construction activity is complete and the site is stabilized, remove erosion control devices and re-sod any areas disturbed by their removal.		
Name of Receiving Waters:	Gulf of Mexico		
CONTROLS			
	Erosion and Sediment Controls		
Stabilization Practices			
Temporary Stabilization: Top soil stock piles and disturbed portions of the site where construction activity temporarily cease for at least 21 days will be stabilized with temporary seed and mulch no later than 7 days from the last construction activity in that area. The seed shall be Bahia, millet, rye, or other fast-growing grasses. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place. Areas of the site which will be paved will be temporarily stabilized by applying limerock subgrade until bituminous pavement can be applied.			
Permanent Stabilization: Disturbed portions of the site, where construction activities permanently cease, shall be stabilized with sod, seed and mulch, landscaping, and/or other equivalent stabilization measures (e.g., rip-rap, geotextiles) no later than 7 days after the date of the last construction activity. The sod shall typically be Floratam or Bahia sod. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place.			

CONTROLS (Continued)	
Structural Practices	
Silt Fence / Ditch Checks - will be constructed along those areas of the project that border adjacent wetlands. At a minimum, the silt fence and/or ditch checks will be placed along all wetland buffers and all Corps of Engineers jurisdictional wetland boundaries.	
Inlet Protection System - will be placed around all existing storm drain inlets and shall remain in-place until the contributing drainage area is stabilized. Alternatively, grate inlets can be covered with filter fabric material until stabilization.	
Storm Water Management	
The project consists of new storm pipe installation, swale regrading, and concrete sidewalks with driveway aprons.	
DISCHARGE RATES:	
OTHER CONTROLS	
Waste disposal:	
Waste Materials: All waste materials will be collected and stored in a trash dumpster which will meet all local and State solid waste management regulations. All trash and construction debris from the site will be deposited in this dumpster. The dumpster will be emptied as required due to use and/or State and local regulations, with the trash disposed of at the appropriate landfill operation. No construction waste materials will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted in the construction office trailer.	
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.	
Sanitary Waste: All sanitary waste will be collected from the portable units by a local, licensed, Collier County sanitary waste management contractor, as required by local regulation.	
Offsite Vehicle Tracking:	
A stabilized construction entrance has been provided to help reduce vehicle tracking of sediments. As they are completed, paved streets will be swept as needed to remove any excess muck, dirt, or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin. The Contractor will provide pollution control by implementing dust control during dust generating activities such as clearing and grubbing or excavation and fill operations. This will be accomplished with street or vacuum sweepers. Dust on dirt entrance roads shall be controlled by water or calcium chloride.	
TIMING OF CONTROLS/MEASURES	
Installation of hay bail / silt fence barriers (around wetlands) and stabilized construction entrance will be constructed prior to extensive clearing or grading of any other portions of the site. Areas where construction activity temporarily ceases for more than 21 days will be stabilized with a temporary seed and mulch within 14 days of the last disturbance. Once construction activity ceases permanently in an area, that area will be stabilized with permanent sod, seed and mulch, landscaping, and/or other equivalent stabilization measures (e.g., rip-rap, geotextiles). After the entire site is stabilized, the silt fence / straw bale barriers can be removed.	
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS	
The storm water pollution prevention plan reflects the United States Environmental Protection Agency and the South Florida Water Management District (SFWMD) requirements for storm water management and erosion and sediment control, as established in the Chapter 40E-4 FAC and Chapter 373 FS.	

NO.	DATE	REVISIONS	BY	CITY OF NAPLES	LJA	Engineering Firm Number: 31200 Surveying Firm License: LB8569	ABB FILE: 13955	DESIGNED BY: EFT	ALLEYWAY LOCATED BETWEEN CENTRAL AVE. AND 1ST AVE. NORTH	SHEET
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**MAINTENANCE/INSPECTION PROCEDURES**

**Erosion and Sediment Control Inspection and Maintenance Practices**

These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls.

- ◆ All control measures will be inspected at least once each week and following any storm event of 0.5 inches or greater, inspector is required to have FDEP inspector certification in Collier County.
- ◆ All measures will be maintained in good working order; if a repair is necessary, it shall be corrected as soon as possible, but in no case later than 7 days after the inspection.
- ◆ Built up sediment will be removed from silt fence when it has reached one-half the height of the fence.
- ◆ 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.
- ◆ Temporary seeding and permanent sodding and planting will be inspected for bare spots, washouts, and healthy growth.
- ◆ 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 Owner will appoint one individual who will be responsible for inspections, maintenance and repair activities, and for completing the inspection and maintenance reports.
- ◆ 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 Discharge**

It is expected that the following non-storm water discharges will occur from the site during the construction period:

- ◆ Water from water line flushings.
- ◆ Pavement wash waters (when no spills or leaks of toxic or hazardous materials have occurred).
- ◆ Uncontaminated groundwater (from dewatering excavation).
- ◆ All non-storm water discharges will be directed to the storm water management facilities prior to discharge.

**INVENTORY FOR POLLUTION PREVENTION PLAN**

The materials or substances listed below are expected to be present onsite during construction:

- |  |                            |
|--|----------------------------|
| ◆ Concrete                                     | ◆ Fertilizers              |
| ◆ Detergents                                   | ◆ Petroleum Based Products |
| ◆ Paints (enamel and latex) and thermo plastic | ◆ Cleaning Solvents        |
| ◆ Asphalt                                      | ◆ Wood                     |
|  | ◆ Masonry Block            |
|  | ◆ Clay or concrete bricks  |

**SPILL PREVENTION**

**Material Management Practices**

The following are the materials 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:

- ◆ An effort will be made to store only enough product required to do the job.
- ◆ 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.
- ◆ Products will be kept in their original containers with the original manufacturer's label.
- ◆ Substances will not be mixed with one another unless recommended by the manufacturer.
- ◆ Whenever possible, all of a product will be used up before disposing of the container.
- ◆ Manufacturers' recommendations for proper use and disposal will be followed.
- ◆ The site superintendent will inspect to ensure proper use and disposal of materials onsite.

**Hazardous Products:**

These practices are used to reduce the risks associated with hazardous materials:

- ◆ Products will be kept in original containers unless they are not resealable.
- ◆ Original labels and material safety data will be retained; they contain important product information.
- ◆ If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

**Product Specific Practices**

The following produce 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 will be clearly labeled. Any asphalt substances used onsite will be applied in accordance with the manufacturer's recommendations and standard construction practices.

**Fertilizers:**

Fertilizers will be 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 shed. 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 and/or state and local regulations.

NO	DATE	REVISIONS	BY	CITY OF NAPLES  295 RIVERSIDE CIRCLE NAPLES, FL 34102	 <b>EMPLOYEE-OWNED.</b> <b>CLIENT FOCUSED.</b>	Engineering Firm Number: 31200 Surveying Firm License: LB8569	Collier County: 7400 Trail Boulevard, Suite 200 Naples, FL 34108 P: 239-597-3111 F: 239-566-2203	ABB FILE: 13965	DESIGNED BY: EFT	ALLEYWAY LOCATED BETWEEN CENTRAL AVE. AND 1ST AVE. NORTH  SWPPP PROCEDURES 02	SHEET 30 OF 34
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**SPILL PREVENTION (Continued)**

**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 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--rags, gloves, goggles, kitty litter, sand, and plastic and metal trash containers specifically for this purpose.
- ◆ All spills will be cleaned up as soon as possible 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.
- ◆ Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size.
- ◆ 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 Contractor's site superintendent will be responsible for the day-to-day site operations and will be the spill prevention and cleanup coordinator. He will designate at least two 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 in the office trailer onsite.

**COLLIER COUNTY URBAN STORMWATER MANAGEMENT PROGRAM AND LONG TERM OPERATION FOR ROADWAY PROJECTS**

Collier County procedures provide for and require the activities listed below.

**Non-structural BMPs include:**

- ◆ **Nutrient and Pesticide Controls:**  
Collier County does not use fertilizers or pesticides on a regular basis and when used all state and federal laws are followed. Limited fertilizer is used during the establishment phase of grassing disturbed areas and initial landscaping activities. Pesticides and herbicides are used on a limited as-needed basis.
  - ◆ **Street Sweeping**  
Street sweeping is typically utilized in residential and commercial areas. Collier County conducts regular roadway maintenance and conducts regular trash pickup prior to any mowing activities.
  - ◆ **Solid Waste Management**  
Collier County conducts regular litter control pick-ups and landscape clippings are hauled off-site to appropriate designated disposal areas.
- Operation and Maintenance of Surface Water Management System:**
- Collier County conducts regular roadway maintenance at least three (3) times a year including inspection of the surface water management systems. Proper function is assessed and problems are addressed as observed. In addition, Collier County maintains the transfer to operation conditions of the existing SFWMD permit.
- ◆ **Routine Water Quality Testing**  
Collier County performs routing water quality testing. Collier County is a co-permittee of the County FDEP Municipal Separate Storm Sewer System (MS4) program. The County performs routine water quality testing for specific sites. Collier County also understands the FDEP and SFWMD conduct regular water quality testing of specific sites.
  - ◆ **Construction Activities**  
The submitted plans include an erosion control plan that addresses the construction or short term phase of the project. The existing surface water management system currently provides the permanent controls to assure water quality standards. Please refer to the Stormwater Pollution and Prevention Plan (SWPPP) that is a requirement for the FDEP NPDES process.

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NO	DATE	REVISIONS	BY	CITY OF NAPLES		 <b>Engineering Firm Number: 31200</b> Surveying Firm license: LB8569  <b>Collier County:</b> 7400 Trail Boulevard, Suite 200 Naples, FL 34108 P: 239.597.3111 F: 239.566.2203	ABB FILE:	DESIGNED BY:	ALLEYWAY LOCATED BETWEEN CENTRAL AVE. AND 1ST AVE. NORTH  SWPPP PROCEDURES 03	SHEET
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**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: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**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	For	Responsible for
_____		
Date: _____		
_____		
Date: _____		
_____		
Date: _____		
_____		
Date: _____		

NO	DATE	REVISIONS	BY	CITY OF NAPLES	 <b>Engineering Firm Number: 31200</b> <b>Surveying Firm License: LB8569</b> <b>Collier County:</b> 7400 Trail Boulevard, Suite 200 Naples, FL 34108 P: 239.597.3111 F: 239.566.2203	ABB FILE: 13965 PROJECT No: 24-0177 PLAN STAGE: PHASE DATE: July 2025 PLOT STYLE: 8000-ROAD.ctb	DESIGNED BY: EFT DRAWN BY: MJB CHECKED BY: CHECKED REVIEWED BY: REVIEWED FILE NAME: 13965 - SWPPP	ALLEYWAY LOCATED BETWEEN CENTRAL AVE. AND 1ST AVE. NORTH  SWPPP PROCEDURES 04	SHEET 32 OF 34
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