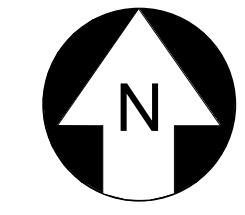


LOCATION MAP



NTS

ST LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL



VOLUME 1 OF 3

GMP 1- EARLY SITE BID PACKAGE

10/12/2022

SCHENKELSHULTZ
 ARCHITECTURE

200 E. ROBINSON STREET
 SUITE 300
 ORLANDO, FL 32801
 voice 407-872-3322
 fax 407-872-3303
 schenkelschultz.com
 SS Lic. No. -AA-C000937

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REVISION		
MARK	DESCRIPTION	DATE
1	ADDENDUM 01	01/11/2023
2	ASI #1 - PERMIT REVIEW COMMENTS	2/2/23

SUBMITTAL LOG	
ISSUE DATE	NAME
11/01/2022	ADDENDUM 01
02/02/2023	ASI#1 - PERMIT REVIEW COMMENTS
06/20/2023	ASI#3

GENERAL	
SHEET NUMBER	SHEET TITLE
G000	COVER

CIVIL	
SHEET NUMBER	SHEET TITLE
C200	OVERALL DEVELOPMENT PLAN
C300	PAVING, GRADING & DRAINAGE PLAN
C301	PAVING, GRADING & DRAINAGE PLAN
C302	PAVING, GRADING & DRAINAGE PLAN
C303	PAVING, GRADING & DRAINAGE PLAN
C400	UTILITY PLAN
C400A	ALTERNATE WATER MAIN DESIGN
C401	UTILITY PLAN
C401A	ALTERNATE WATER MAIN DESIGN
C402	UTILITY PLAN
C402A	ALTERNATE WATER MAIN DESIGN
C403	UTILITY PLAN
C403A	ALTERNATE WATER MAIN DESIGN
C500	PAVING, GRADING & DRAINAGE DETAILS
C501	PAVING, GRADING & DRAINAGE DETAILS
C502	PAVING, GRADING & DRAINAGE PLAN
C503	UTILITY DETAILS
C504	UTILITY DETAILS
C505	UTILITY DETAILS
C506	UTILITY DETAILS
C600	EROSION & SEDIMENT CONTROL PLAN
C601	EROSION & SEDIMENT CONTROL DETAILS
C700	GENERAL NOTES

- Design Team**
- Architecture: SCHENKELSHULTZ ARCHITECTURE
 - Civil Engineering: CULPEPPER AND TERPENING, INC.
 - Landscape: LUCIDO & ASSOCIATES
 - Structural Engineering: BBM STRUCTURAL ENGINEERS, INC.
 - Mechanical Engineering: OCI ASSOCIATES, INC.
 - Electrical Engineering: OCI ASSOCIATES, INC.
 - Plumbing: OCI ASSOCIATES, INC.
 - Fire Protection: OCI ASSOCIATES, INC.
 - Technology: OCI ASSOCIATES, INC.
 - Food Service: PES DESIGN GROUP
 - Theatrical: TSG DESIGN SOLUTIONS, INC.



SHEET INDEX

ST LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL



St. Lucie Public Schools
 9461 Brandywine Ln
 Port St. Lucie, FL 34986

ISSUE DATE: 10/12/2022
 COMM. NO.: 2022107

DRAWN BY: RC,SM,AC CHECKED BY: KT

COVER

G000

Project Name:
St Lucie County High School DDD

Location:
North of the future Crosstown Parkway Reconstruction to Range Line Road. Part of the Verano Developments. Address TBD.

Parcel ID Numbers:
3331-131-0001-000-6 (part of)

Gross Site Area:
49.11 acres (proposed development tract)
2,139,131 sq feet (approximate)

Zoning:
Current: SLC Agricultural 49.11 ac

Land Use:
Current: RGC - Residential Golf Course 49.11 ac

Building Data:

Setbacks (feet)	Required	Provided
Front (south)	25.0	143.7
Rear (north)	25.0	295.1
Side (west)	25.0	564.3
Side (east)	25.0	314.0

Site Coverage:

Impervious

SF	ACRE	% Basin
Buildings	242845	5.57
Pavement	501672	11.52
Sidewalk	182695	4.19
Total	927012	43.3%

Pervious

SF	ACRE	% Basin
Open Space	1212119	27.83
Total Pervious	1212119	56.7%

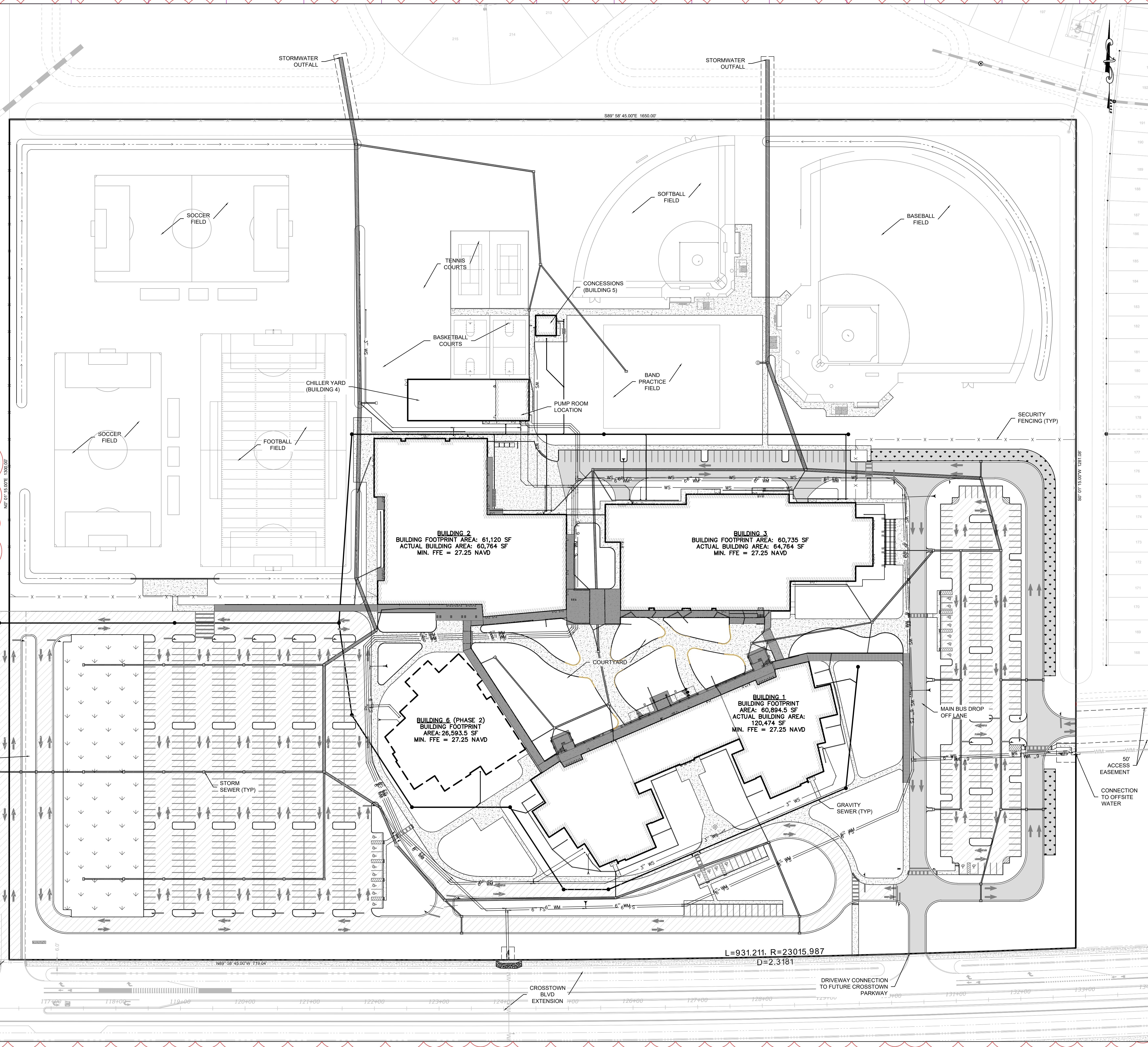
Total 2,139,131 49.11 100.0%

Building:
Proposed Maximum Bldg. Hgt. 48.5 feet
Building Type FBC I-B and I-B Sprinkled

Floor Area Ratio
242,845 sf
21,139,131 sf
0.0115

Parking Provided:

Category	Standard Spaces	Handicapped	Grassed (approx.)	Subtotal
West Lot (student parking)	391	12	246	649
East Lot (staff parking)	182	9	70	261
Total				910 Spaces



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PHONE 772-468-2537 • FAX 772-468-9457 • www.ct-inc.com
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23
2	ASI #1 - PERMIT REVIEW COMMENTS	2/2/23
4	ASI #3	6/20/23

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ST. LUCIE HIGH SCHOOL DDD
Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS
St. Lucie Public Schools
8461 Brandwine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
COMM NO.: 2022107
DRAWN BY: ZM CHECKED BY: KEC

OVERALL DEVELOPMENT PLAN

C200
EARLY SITE BID PACKAGE

1 4

LEGEND

- HEAVY DUTY ASPHALT PAVING
- LIGHT DUTY ASPHALT PAVING
- PROJECT BOUNDARY
- PROPOSED SIGN
- PROPOSED HANDICAP PARKING
- TRAFFIC FLOW DIRECTION
- PROPOSED DRAINAGE INFRASTRUCTURE
- PROPOSED EASEMENT
- PROPOSED SECURITY FENCING
- PROPOSED SWALE CENTERLINE
- PROPOSED FIRE HYDRANT
- PROPOSED ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED EDGE OF PAVEMENT ELEVATION

DESIGN CRITERIA

- CONTROL ELEVATION = 22.00' NAVD
- MIN. PAVEMENT = 25.50' NAVD
- MIN. FINISHED FLOOR = 27.00' NAVD

NOTE: CHAIN LINK FENCE SHALL BE IN THE STANDARDS SET FORTH BY THE CHAIN LINK MANUFACTURING INSTITUTE. ALL FENCING HAS TOP RAILS, COMMERCIAL GRADE WITH STEEL TIE WIRES

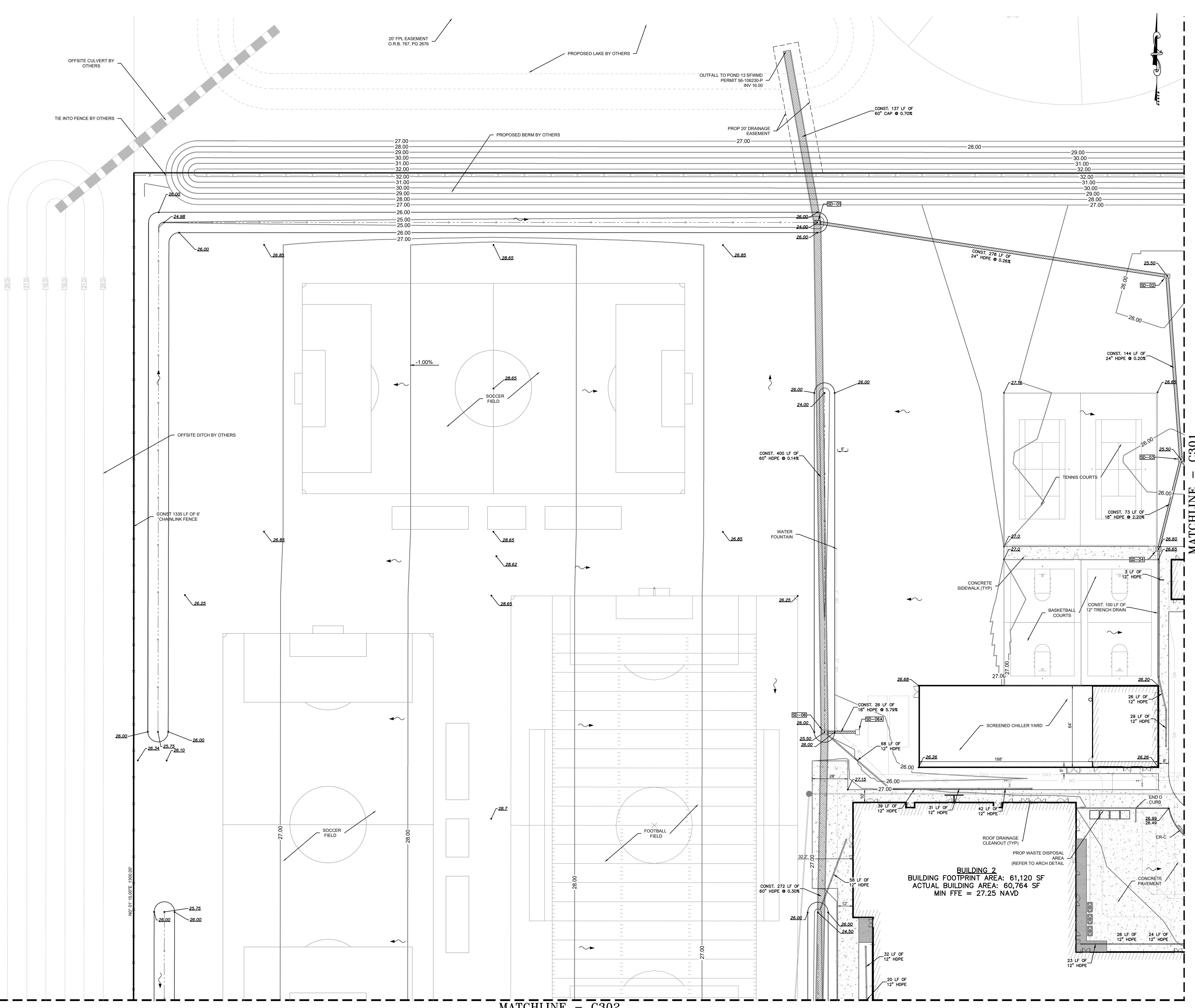
Signing and Marking Legend

SIGN TYPE	SITE COUNT
R1-1 STOP SIGN	x27
R1-5a YIELD HERE TO PEDESTRIANS	x2
RS-1 DO NOT ENTER	x5
RS-1 ONE WAY	x2
PM-1 STOP BAR	x27
PM-2 THRU ARROW	x136
PM-3 PEDESTRIAN CROSSWALK	x4

Note: Signage designations correspond to that which is detailed in the MUTCD 2009 (2012 revision) Edition

DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
SD-01 TYPE "H" INLET	RM = 24.00 S INV = 18.96 N INV = 18.96 E INV = 21.00
SD-02 TYPE "A" INLET	RM = 25.50 S INV = 21.71 N INV = 21.71 W INV = 21.71
SD-03 TYPE "C" INLET	RM = 25.50 N INV = 22.00 S INV = 22.00 SE INV = 22.08
SD-04 TYPE "C" INLET	RM = 26.60 N INV = 23.60 S INV = 24.35
SD-06 TYPE "V" INLET	RM = 25.50 S INV = 17.88 N INV = 17.50 E INV = 17.50
SD-06A YARD DRAIN	RM = 25.50 W INV = 19.00



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CULPEPPER & TERPENING INC

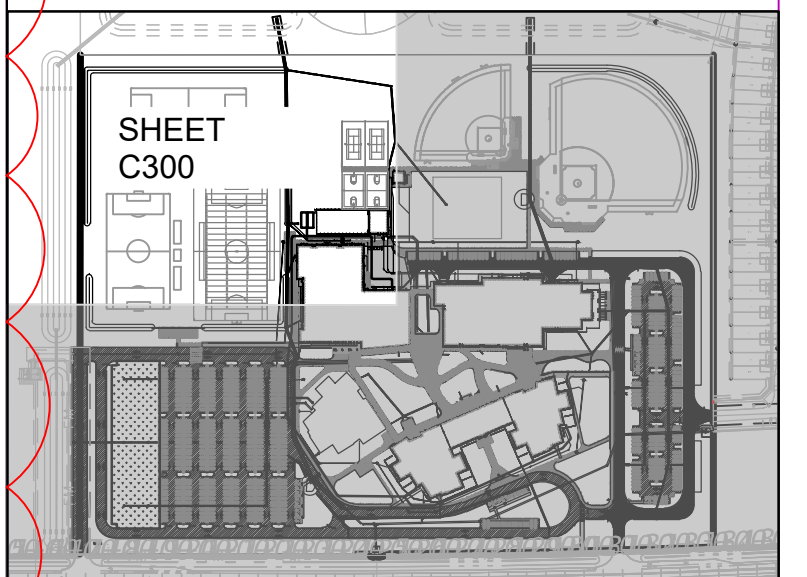
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PHONE: 772-464-3037 • FAX: 772-464-9487 • www.culpepper.com
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23
2	ASI #1 - PERMIT REVIEW COMMENTS	2/2/23
3	ASI #2 - RFI REVISIONS	4/19/23
4	ASI #3	6/20/23

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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9481 Brandywine Ln
Port St. Lucie, FL 34986

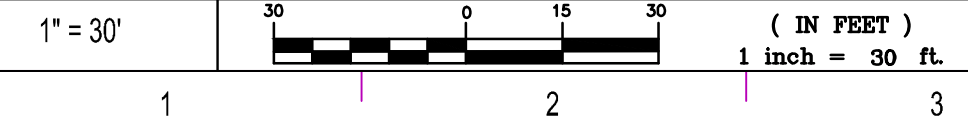
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COMM NO.: 2022107
DRAWN BY: ZM CHECKED BY: KEC

PAVING, GRADING, & DRAINAGE PLAN

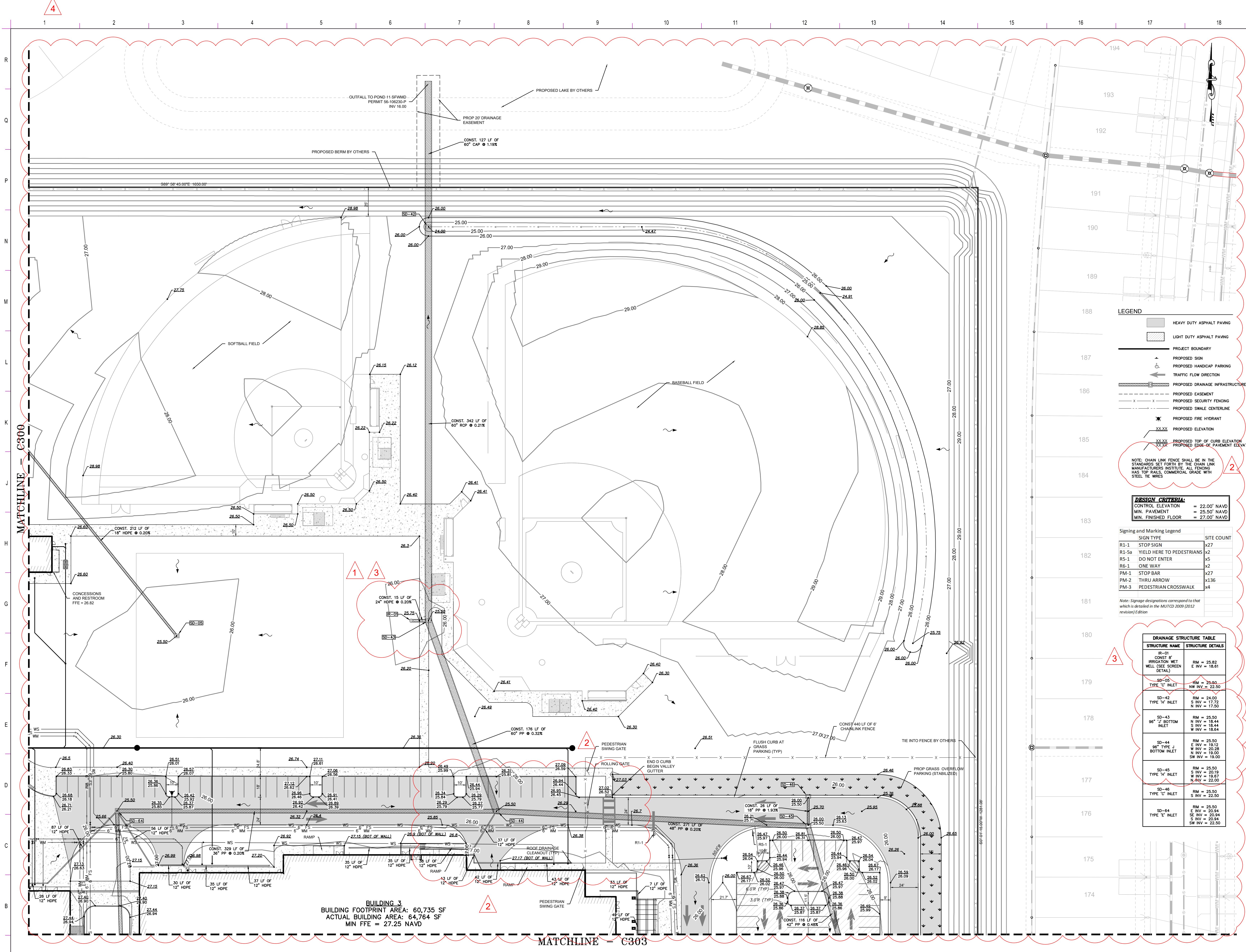
C300

EARLY SITE BID PACKAGE

C300 PAVING, GRADING, & DRAINAGE PLAN



9/19/2022 4:10:59 PM



BUILDING 3
 BUILDING FOOTPRINT AREA: 60,735 SF
 ACTUAL BUILDING AREA: 64,764 SF
 MIN FFE = 27.25 NAVD

SCHENKELSHULTZ
 ARCHITECTURE

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 STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

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- LEGEND**
- HEAVY DUTY ASPHALT PAVING
 - LIGHT DUTY ASPHALT PAVING
 - PROJECT BOUNDARY
 - PROPOSED SIGN
 - PROPOSED HANDICAP PARKING
 - TRAFFIC FLOW DIRECTION
 - PROPOSED DRAINAGE INFRASTRUCTURE
 - PROPOSED EASEMENT
 - PROPOSED SECURITY FENCING
 - PROPOSED SWALE CENTERLINE
 - PROPOSED FIRE HYDRANT
 - PROPOSED ELEVATION
 - PROPOSED TOP OF CURB ELEVATION
 - PROPOSED EDGE-OF-PAVEMENT ELEVATION

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CONTROL ELEVATION	= 22.00' NAVD
MIN. PAVEMENT	= 25.50' NAVD
MIN. FINISHED FLOOR	= 27.00' NAVD

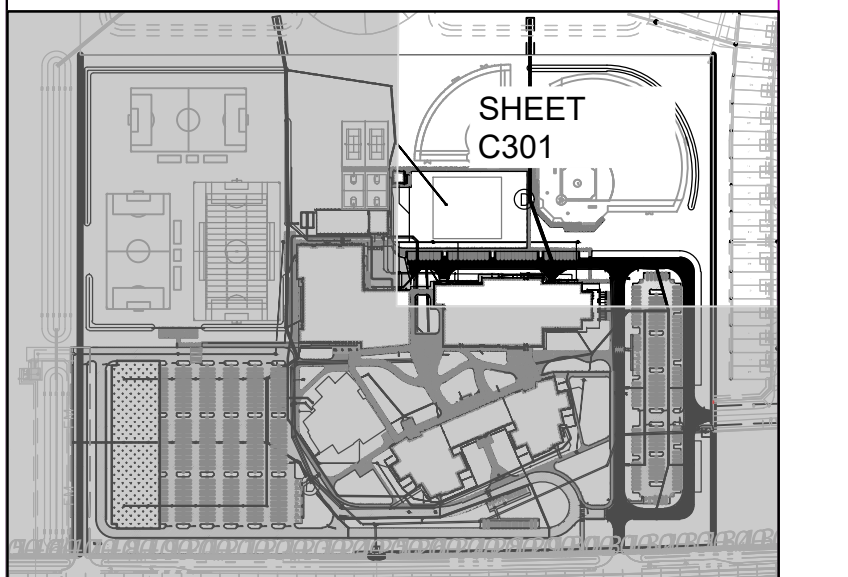
Signing and Marking Legend

SIGN TYPE	SITE COUNT
R1-1 STOP SIGN	x27
R1-5a YIELD HERE TO PEDESTRIANS	x2
R5-1 DO NOT ENTER	x5
R5-1 ONE WAY	x2
PM-1 STOP BAR	x27
PM-2 THRU ARROW	x136
PM-3 PEDESTRIAN CROSSWALK	x4

Note: Signage designations correspond to that which is detailed in the MUTCD 2009 (2012 revision) Edition

DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
IR-01 CONST. 8' IRRIGATION WET WELL (SEE SCREEN DETAIL)	RIM = 25.82 E INV = 18.61
SD-02 TYPE 'C' INLET	RIM = 25.50 NW INV = 22.50
SD-42 TYPE 'H' INLET	RIM = 24.00 S INV = 17.72 N INV = 17.50
SD-43 96" 1/2 BOTTOM INLET	RIM = 25.50 N INV = 18.44 S INV = 18.44 W INV = 18.64
SD-44 96" TYPE 'J' BOTTOM INLET	RIM = 25.50 N INV = 19.12 W INV = 20.28 N INV = 19.00 SW INV = 19.00
SD-45 TYPE 'H' INLET	RIM = 25.50 S INV = 20.19 W INV = 19.87 N INV = 22.00
SD-46 TYPE 'C' INLET	RIM = 25.50 S INV = 22.50
SD-64 TYPE 'C' INLET	RIM = 25.50 E INV = 20.94 W INV = 20.94 S INV = 20.94 SW INV = 22.50



ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
 9461 Brandwynne Ln
 Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
 COMM NO.: 2022107
 DRAWN BY: ZM CHECKED BY: KEC

PAVING, GRADING, & DRAINAGE PLAN

C301

EARLY SITE BID PACKAGE

C301 PAVING, GRADING, & DRAINAGE PLAN

1" = 30'

1 inch = 30 ft

R
Q
P
N
M
L
K
J
H
G
F
E
D
C
B
A

LEGEND

- HEAVY DUTY ASPHALT PAVING
- LIGHT DUTY ASPHALT PAVING
- CONCRETE PAVING
- PROJECT BOUNDARY
- PROPOSED SIGN
- PROPOSED HANDICAP PARKING
- TRAFFIC FLOW DIRECTION
- PROPOSED DRAINAGE INFRASTRUCTURE
- PROPOSED EASEMENT
- PROPOSED SECURITY FENCING
- PROPOSED SWALE CENTERLINE
- PROPOSED FIRE HYDRANT
- PROPOSED ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED EDGE OF PAVEMENT ELEVATION

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Signage and Marking Legend

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R1-1 STOP SIGN	x27
R1-5a YIELD HERE TO PEDESTRIANS	x2
R5-1 DO NOT ENTER	x5
R6-1 ONE WAY	x2
PM-1 STOP BAR	x27
PM-2 THRU ARROW	x136
PM-3 PEDESTRIAN CROSSWALK	x4

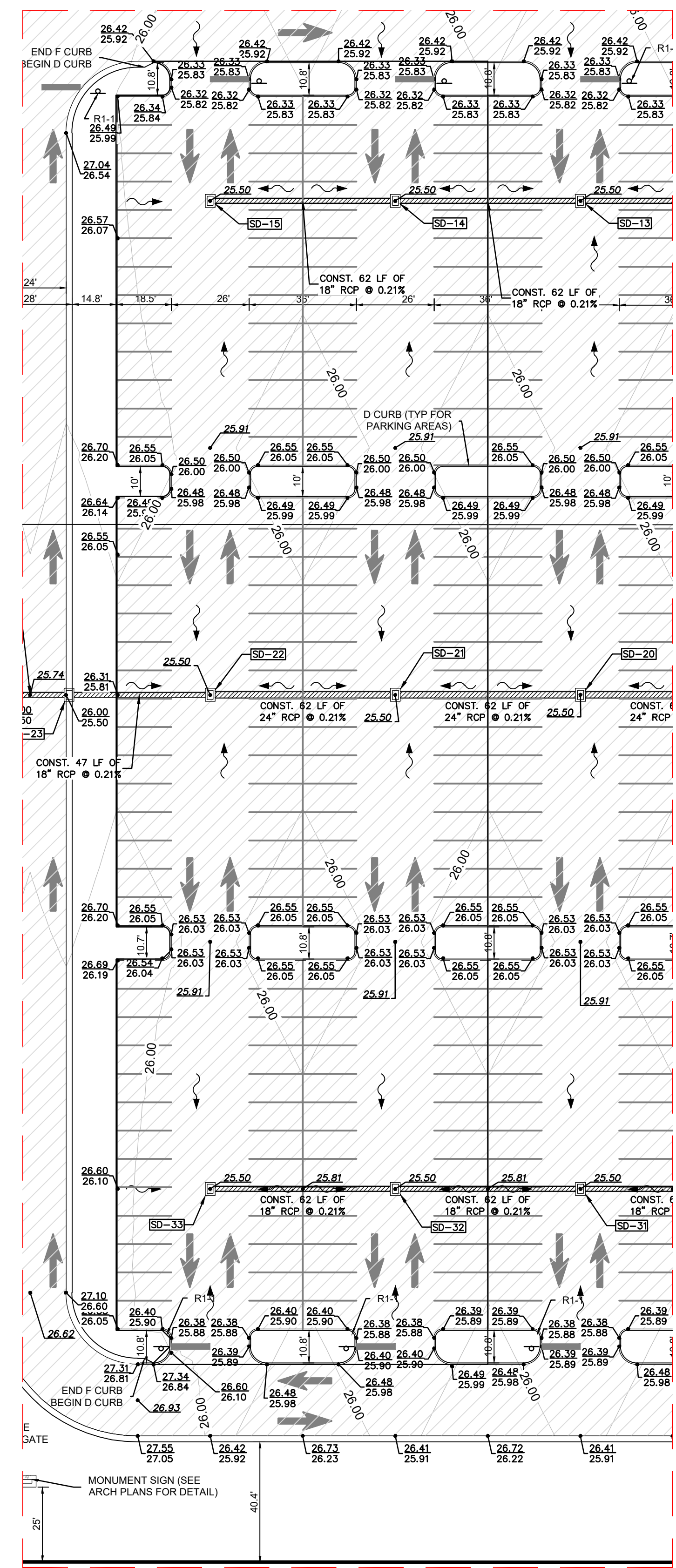
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DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
SD-07 TYPE 'Y' INLET	RM = 24.00 N INV = 19.50 NE INV = -3.41 S INV = 19.50
SD-08 96" TYPE J BOTTOM INLET	RM = 26.80 SW INV = 19.56 N INV = 19.50 N INV = 24.00
SD-09 TYPE 'C' INLET	RM = 25.50 S INV = 19.67 W INV = 21.72 NE INV = 19.76
SD-10 TYPE 'C' INLET	RM = 25.50 W INV = 21.85 E INV = 21.85
SD-11 TYPE 'C' INLET	RM = 25.50 E INV = 21.98 W INV = 21.98
SD-12 TYPE 'C' INLET	RM = 25.50 W INV = 22.11 E INV = 22.11
SD-13 TYPE 'C' INLET	RM = 25.50 W INV = 22.24 E INV = 22.24
SD-14 TYPE 'C' INLET	RM = 25.50 W INV = 22.37 E INV = 22.37
SD-15 TYPE 'C' INLET	RM = 25.50 E INV = 22.50
SD-16 TYPE 'E' INLET	RM = 25.50 S INV = 21.17 N INV = 20.00 SE INV = 20.17 W INV = 21.22
SD-17 TYPE 'C' INLET	RM = 25.50 W INV = 21.35 E INV = 21.35
SD-18 TYPE 'C' INLET	RM = 25.50 E INV = 21.48 W INV = 21.48
SD-19 TYPE 'C' INLET	RM = 25.50 W INV = 21.61 E INV = 21.61
SD-20 TYPE 'C' INLET	RM = 25.50 E INV = 21.74 W INV = 21.74
SD-21 TYPE 'C' INLET	RM = 25.50 E INV = 21.87 W INV = 21.87
SD-22 TYPE 'C' INLET	RM = 25.50 W INV = 22.22 E INV = 22.00
SD-23 TYPE 'C' INLET	RM = 25.50 W INV = 22.32 E INV = 22.32
SD-24 TYPE 'C' INLET	RM = 25.50 W INV = 22.38 E INV = 22.38
SD-25 TYPE 'C' INLET	RM = 25.50 W INV = 22.42 E INV = 22.42
SD-26 TYPE 'C' INLET	RM = 25.50 E INV = 22.50

DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
SD-27 TYPE 'C' INLET	RM = 25.50 N INV = 21.50 W INV = 21.61
SD-28 TYPE 'C' INLET	RM = 25.50 E INV = 21.74 W INV = 21.74
SD-29 TYPE 'C' INLET	RM = 25.50 W INV = 21.87 E INV = 21.87
SD-30 TYPE 'C' INLET	RM = 25.50 W INV = 22.11 E INV = 22.00
SD-31 TYPE 'C' INLET	RM = 25.50 W INV = 22.24 E INV = 22.24
SD-32 TYPE 'C' INLET	RM = 25.50 W INV = 22.37 E INV = 22.37
SD-33 TYPE 'C' INLET	RM = 25.50 E INV = 22.50
SD-34 TYPE 'E' INLET	RM = 25.50 SE INV = 20.38 NW INV = 20.38
SD-35 TYPE 'E' INLET	RM = 25.50 W INV = 22.44 N INV = 20.73 SE INV = 20.73
SD-36 TYPE 'C' INLET	RM = 25.50 NW INV = 22.44 S INV = 22.44
SD-37 TYPE 'C' INLET	RM = 25.50 N INV = 22.50
SD-68 TYPE 'C' INLET	RM = 25.50 SW INV = 22.50 SE INV = 22.50
SMH-01 P7 MANHOLE	RM = 25.25 SE INV = 20.50 NW INV = 20.50



SCHENKELSHULTZ
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REVISIONS

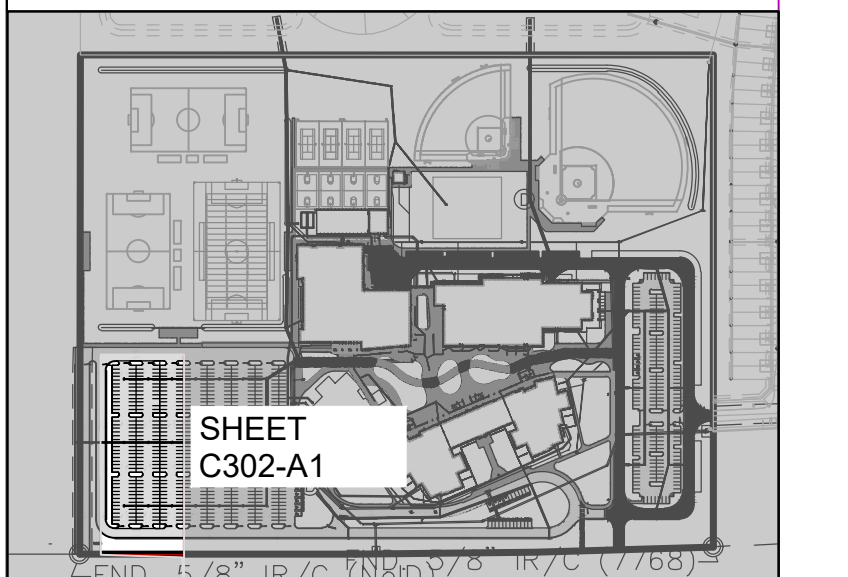
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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

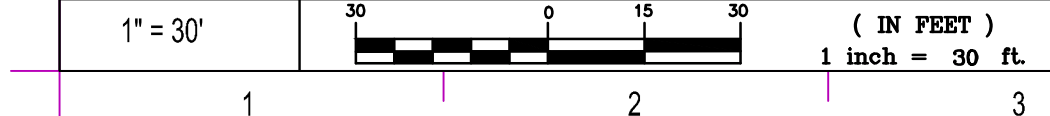
St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
COMM NO.: 2022107
DRAWN BY: ZM CHECKED BY: KEC

PARKING LOT PAVEMENT ALTERNATE

C302-A1

C302-A1 PARKING LOT PAVEMENT ALTERNATE



MATCHLINE - C300

- LEGEND**
- HEAVY DUTY ASPHALT PAVING
 - LIGHT DUTY ASPHALT PAVING
 - CONCRETE PAVING
 - PROJECT BOUNDARY
 - PROPOSED SIGN
 - PROPOSED HANDICAP PARKING
 - TRAFFIC FLOW DIRECTION
 - PROPOSED DRAINAGE INFRASTRUCTURE
 - PROPOSED EASEMENT
 - PROPOSED SECURITY FENCING
 - PROPOSED SWALE CENTRLINE
 - PROPOSED FIRE HYDRANT
 - PROPOSED TOP OF CURB ELEVATION
 - PROPOSED EDGE OF PAVEMENT ELEVATION

DESIGN CRITERIA
 CONTROL ELEVATION = 22.00' NAVD
 MIN. PAVEMENT = 25.50' NAVD
 MIN. FINISHED FLOOR = 27.00' NAVD

NOTE: CHAIN LINK FENCE SHALL BE IN THE STANDARDS SET FORTH BY THE CHAIN LINK MANUFACTURERS INSTITUTE. ALL FENCING HAS TOP RAILS, COMMERCIAL GRADE WITH STEEL TIE WIRES

DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
SD-07	TYPE 'H' INLET RM = 24.00 N INV = 21.50 S INV = 18.50 W INV = 24.00
SD-08	96" TYPE 'J' BOTTOM INLET RM = 26.80 SW INV = 18.67 N INV = 18.67 S INV = 24.00
SD-09	TYPE 'H' INLET RM = 25.90 S INV = 18.86 N INV = 21.72 W INV = 18.86
SD-10	TYPE 'C' INLET RM = 25.90 W INV = 21.85 E INV = 21.85
SD-11	TYPE 'C' INLET RM = 25.90 E INV = 21.98 W INV = 21.98
SD-12	TYPE 'C' INLET RM = 25.90 W INV = 22.11 E INV = 22.11
SD-13	TYPE 'C' INLET RM = 25.90 W INV = 22.24 E INV = 22.24
SD-14	TYPE 'C' INLET RM = 25.13 W INV = 22.37 E INV = 22.37
SD-15	TYPE 'C' INLET RM = 25.12 E INV = 22.50
SD-16	TYPE 'C' INLET RM = 25.90 S INV = 21.17 N INV = 19.19 SE INV = 19.19 W INV = 21.22
SD-17	TYPE 'C' INLET RM = 25.90 W INV = 21.35 E INV = 21.35
SD-18	TYPE 'C' INLET RM = 25.90 E INV = 21.48 W INV = 21.48
SD-19	TYPE 'C' INLET RM = 25.90 W INV = 21.61 E INV = 21.61
SD-20	TYPE 'C' INLET RM = 25.90 E INV = 21.74 W INV = 21.74
SD-21	TYPE 'C' INLET RM = 25.13 E INV = 21.87 W INV = 21.87
SD-22	TYPE 'C' INLET RM = 25.17 W INV = 22.22 E INV = 22.00
SD-23	TYPE 'C' INLET RM = 25.90 W INV = 22.32 E INV = 22.32
SD-24	TYPE 'C' INLET RM = 25.90 W INV = 22.38 E INV = 22.38
SD-25	TYPE 'C' INLET RM = 25.90 W INV = 22.42 E INV = 22.42
SD-26	TYPE 'C' INLET RM = 25.90 E INV = 22.50

DRAINAGE STRUCTURE TABLE

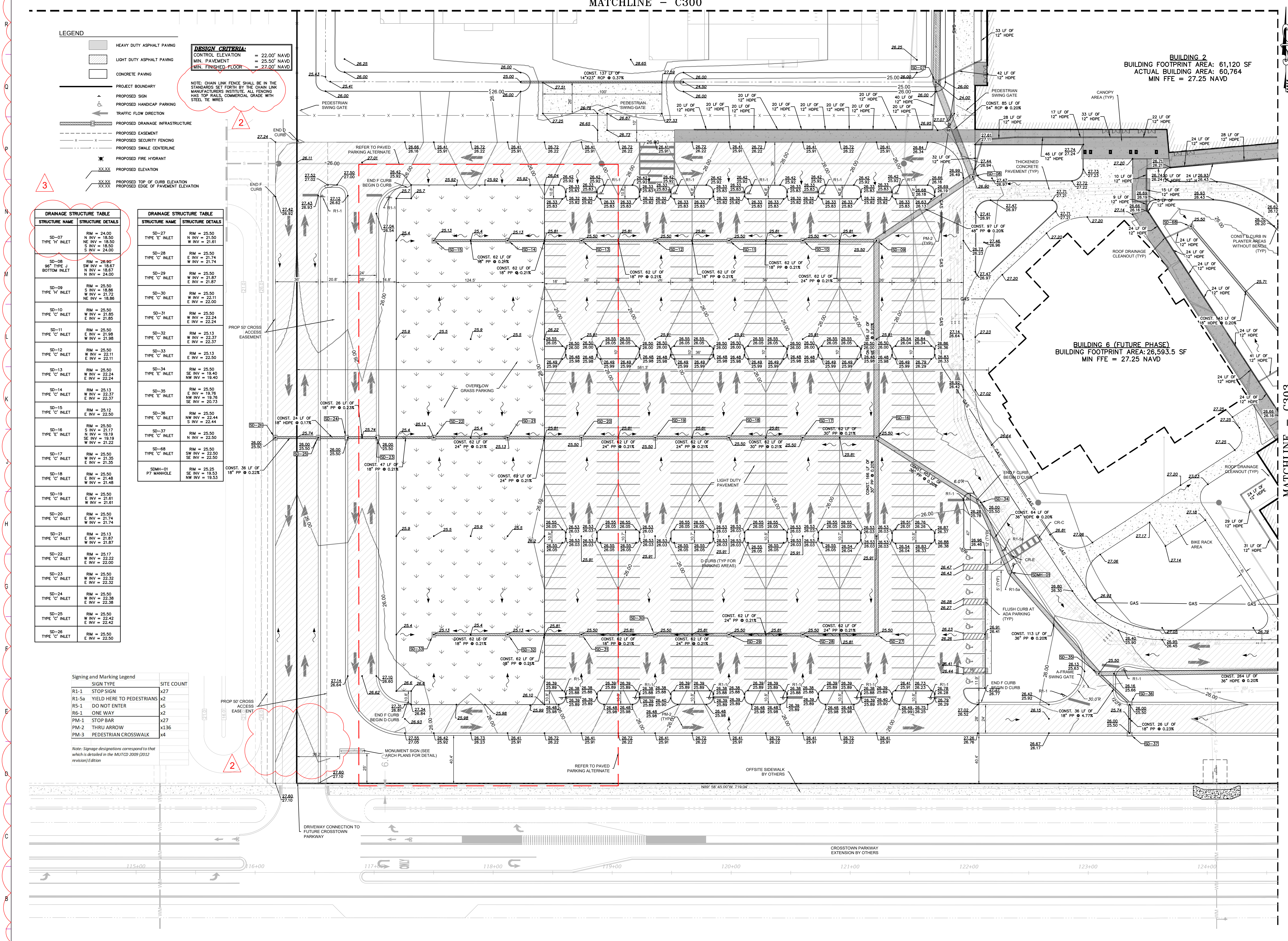
STRUCTURE NAME	STRUCTURE DETAILS
SD-27	TYPE 'C' INLET RM = 25.90 N INV = 21.50 W INV = 21.61
SD-28	TYPE 'C' INLET RM = 25.90 E INV = 21.74 W INV = 21.74
SD-29	TYPE 'C' INLET RM = 25.90 W INV = 21.87 E INV = 21.87
SD-30	TYPE 'C' INLET RM = 25.90 W INV = 22.11 E INV = 22.11
SD-31	TYPE 'C' INLET RM = 25.90 W INV = 22.24 E INV = 22.24
SD-32	TYPE 'C' INLET RM = 25.13 W INV = 22.37 E INV = 22.37
SD-33	TYPE 'C' INLET RM = 25.13 E INV = 22.50
SD-34	TYPE 'C' INLET RM = 25.90 SE INV = 19.40 NW INV = 19.40
SD-35	TYPE 'E' INLET RM = 25.50 NW INV = 22.44 SE INV = 20.73
SD-36	TYPE 'C' INLET RM = 25.90 NW INV = 22.50 SE INV = 22.50
SD-37	TYPE 'C' INLET RM = 25.90 N INV = 22.50
SD-38	TYPE 'C' INLET RM = 25.90 SW INV = 22.50 SE INV = 22.50
SDMH-01	P7 MANHOLE RM = 25.25 SE INV = 19.53 NW INV = 19.53

- Signing and Marking Legend**
- R1-1 STOP SIGN
 - R1-5a YIELD HERE TO PEDESTRIANS
 - R5-1 DO NOT ENTER
 - R6-1 ONE WAY
 - PM-1 STOP BAR
 - PM-2 THRU ARROW
 - PM-3 PEDESTRIAN CROSSWALK

SITE COUNT

x27
x2
x2
x5
x2
x27
x136
x4

Note: Signage designations correspond to that which is detailed in the MUTCD 2009 (0122 revision) Edition



SCHENKELSHULTZ
 ARCHITECTURE

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 ORLANDO, FL 32801
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 FAX: 407-872-3303
 schenkelsultz.com
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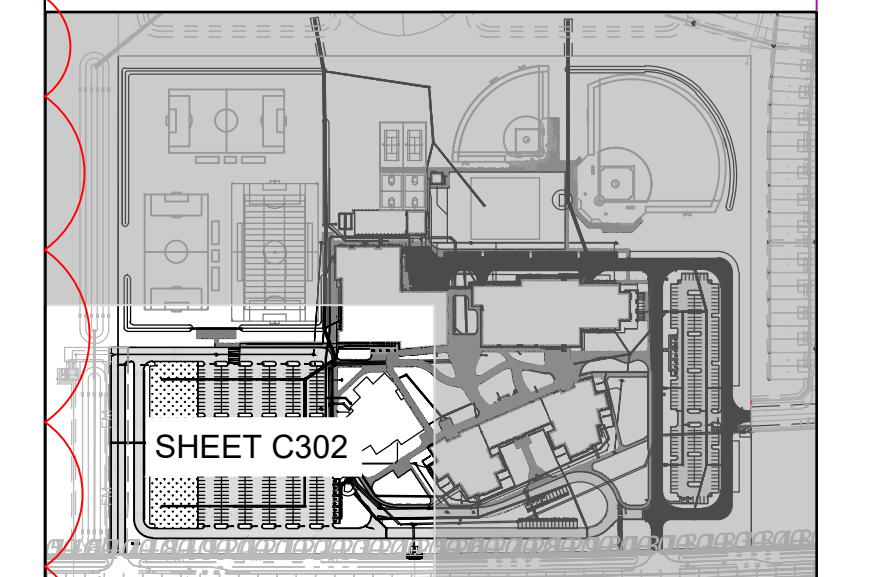
2900 SOUTH 25th STREET • FORT PIERCE, FL 34981
 PHONE: 772-464-3037 • FAX: 772-464-9497 • www.culpepper.com
 STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4268

REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23
2	ASI #1 - PERMIT REVIEW COMMENTS	2/2/23
3	ASI #2 - RFI REVISIONS	4/19/23
4	ASI #3	6/20/23

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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
 9451 Brandywine Ln
 Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
 COMM NO.: 2022107
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PAVING, GRADING, & DRAINAGE PLAN

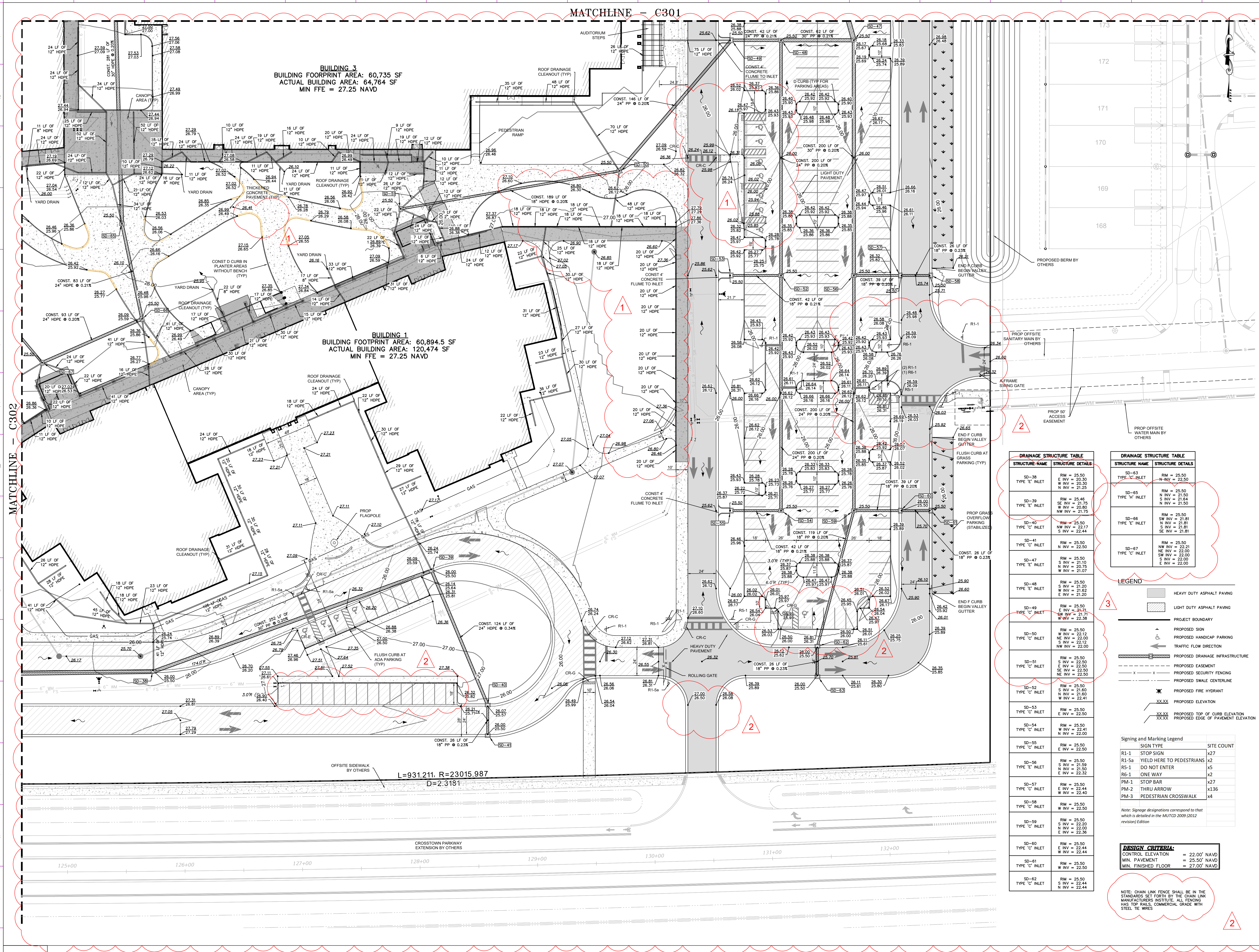
C302

EARLY SITE BID PACKAGE

MATCHLINE - C301

BUILDING 3
BUILDING FOOTPRINT AREA: 60,735 SF
ACTUAL BUILDING AREA: 64,764 SF
MIN FFE = 27.25 NAVD

BUILDING 1
BUILDING FOOTPRINT AREA: 60,894.5 SF
ACTUAL BUILDING AREA: 120,474 SF
MIN FFE = 27.25 NAVD



DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
SD-38	RIM = 25.50 E INV = 20.30 W INV = 20.30 N INV = 21.25
SD-39	RIM = 25.46 SE INV = 21.75 W INV = 20.80 NW INV = 21.75
SD-40	RIM = 25.50 NW INV = 22.17 S INV = 22.44
SD-41	RIM = 25.50 N INV = 22.50
SD-47	RIM = 25.50 S INV = 21.10 NE INV = 20.75 W INV = 21.07
SD-48	RIM = 25.50 S INV = 21.20 NE INV = 21.20
SD-49	RIM = 25.50 E INV = 21.75 W INV = 22.38
SD-50	RIM = 25.50 W INV = 22.12 N INV = 22.12 NW INV = 22.00
SD-51	RIM = 25.50 S INV = 21.60 N INV = 21.60 NE INV = 22.50
SD-52	RIM = 25.50 S INV = 21.60 N INV = 22.41
SD-53	RIM = 25.50 E INV = 22.50
SD-54	RIM = 25.50 W INV = 22.41 N INV = 22.00
SD-55	RIM = 25.50 E INV = 22.50
SD-56	RIM = 25.50 S INV = 21.59 N INV = 21.50 E INV = 22.50
SD-57	RIM = 25.50 E INV = 22.44 W INV = 22.40
SD-58	RIM = 25.50 W INV = 22.50
SD-59	RIM = 25.50 S INV = 22.44 W INV = 22.44
SD-60	RIM = 25.50 S INV = 21.60 N INV = 22.50
SD-61	RIM = 25.50 S INV = 21.60 N INV = 22.50
SD-62	RIM = 25.50 S INV = 22.44 N INV = 22.44

DRAINAGE STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
SD-63	RIM = 25.50 N INV = 21.50 W INV = 22.50
SD-65	RIM = 25.50 S INV = 21.64 N INV = 21.50
SD-66	RIM = 25.50 SW INV = 21.81 N INV = 21.81 SE INV = 21.81
SD-67	RIM = 25.50 NW INV = 22.21 NE INV = 22.00 S INV = 22.00 E INV = 22.00

- LEGEND**
- HEAVY DUTY ASPHALT PAVING
 - LIGHT DUTY ASPHALT PAVING
 - PROJECT BOUNDARY
 - PROPOSED SIGN
 - PROPOSED HANDICAP PARKING
 - TRAFFIC FLOW DIRECTION
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 - PROPOSED EASEMENT
 - PROPOSED SECURITY FENCING
 - PROPOSED SWALE CENTERLINE
 - PROPOSED FIRE HYDRANT
 - PROPOSED ELEVATION
 - PROPOSED TOP OF CURB ELEVATION
 - PROPOSED EDGE OF PAVEMENT ELEVATION

Signing and Marking Legend

SIGN TYPE	SITE COUNT
R1-1 STOP SIGN	x27
R1-5a YIELD HERE TO PEDESTRIANS	x2
RS-1 DO NOT ENTER	x5
RS-1 ONE WAY	x2
PM-1 STOP BAR	x27
PM-2 THRU ARROW	x136
PM-3 PEDESTRIAN CROSSWALK	x4

DESIGN CRITERIA:
CONTROL ELEVATION = 22.00' NAVD
MIN. PAVEMENT = 25.50' NAVD
MIN. FINISHED FLOOR = 27.00' NAVD

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CULPEPPER & TERPENING INC
ENGINEERS

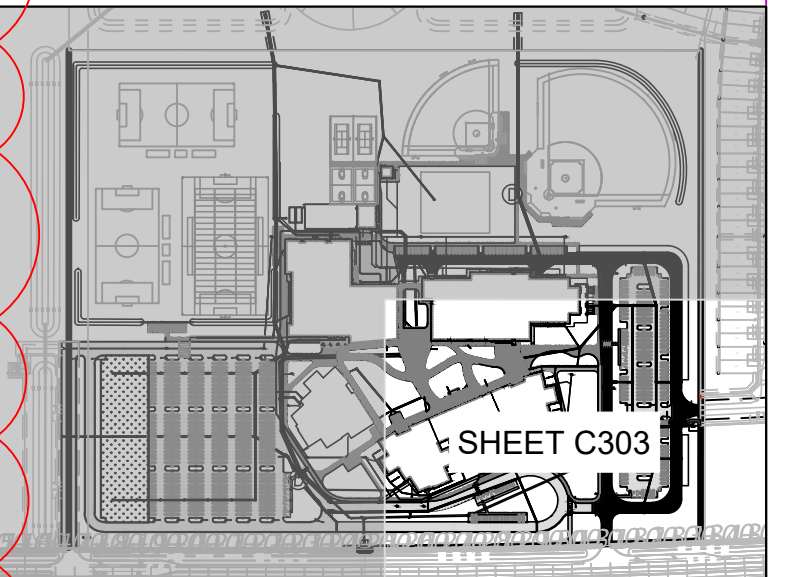
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PHONE: 772-246-3433 • FAX: 772-246-3487 • WWW.C-TI.COM
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23
2	ASI #1 - PERMIT REVIEW COMMENTS	2/2/23
3	ASI #2 - RFI REVISIONS	4/19/23
4	ASI #3	6/20/23

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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
3461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
COMM NO.: 2022107

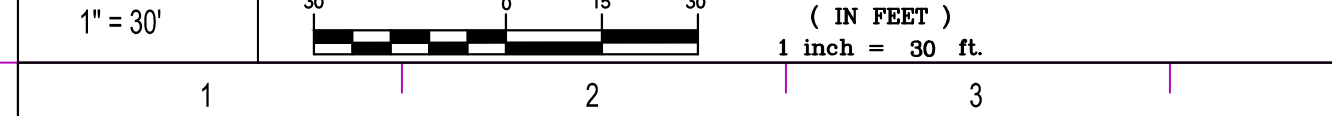
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PAVING, GRADING, & DRAINAGE PLAN

C303

EARLY SITE BID PACKAGE

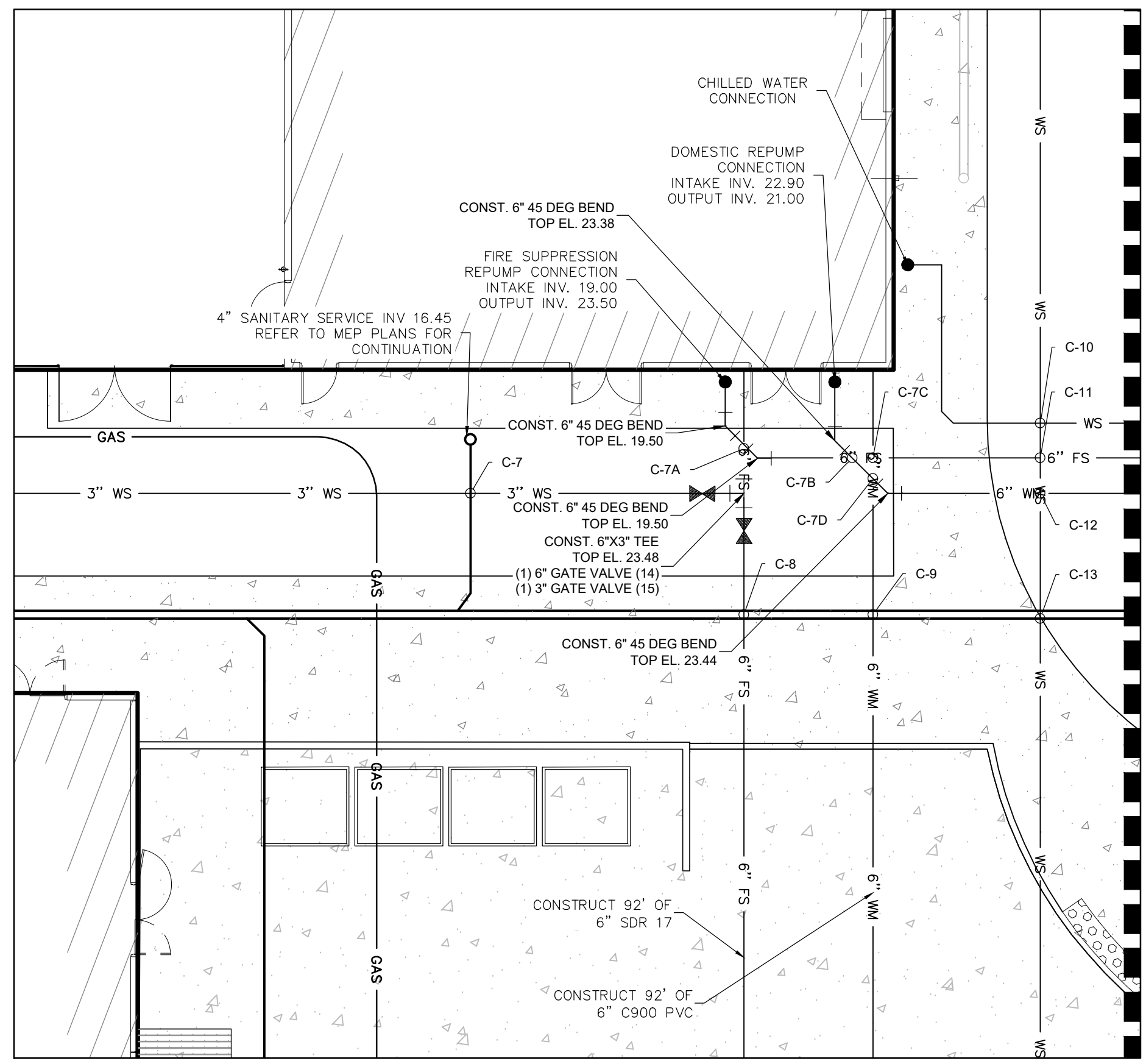
C303 PAVING, GRADING, & DRAINAGE PLAN



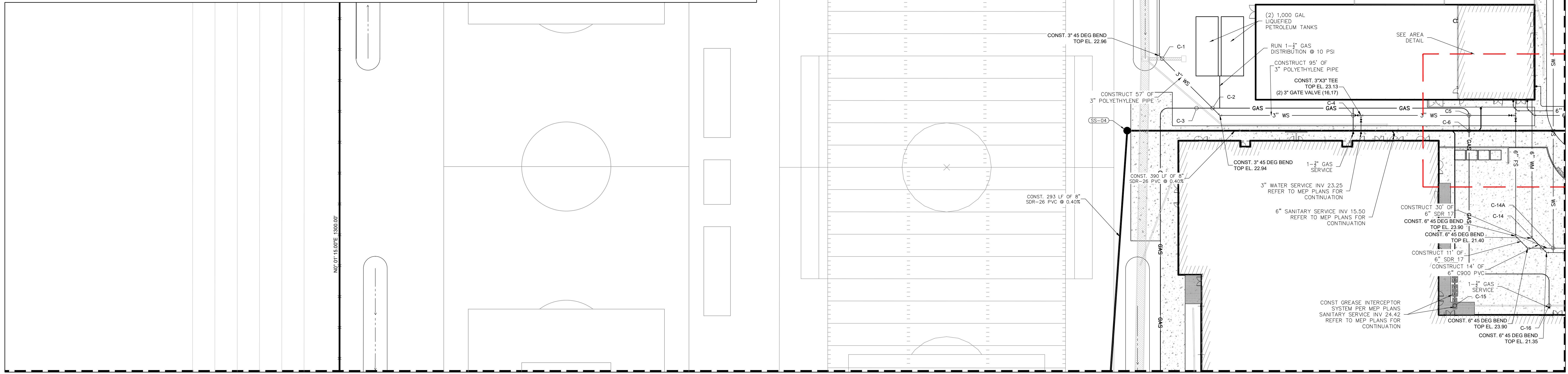
1" = 30'

CROSSING #	TYPE	CLEARANCE (feet)	PIPE CROSSING TABLE		TOP OF BOTTOM PIPE		FINISH GRADE	
			BOTTOM OF TOP PIPE (ELEV)	AS-BUILT (ELEV)	(TYPE) (ELEV)	(TYPE) (ELEV)	(ELEV)	(AS-BUILT)
C-1	3" WS OVER 18" STORM	3.89	23.77	19.88	WM (PVC)	STM (RCP)	27.06	
C-2	1 1/2" GAS OVER 3" WS	1.50	22.50		GAS (DIP)	WM (PVC)	25.65	
C-3	1 1/2" GAS OVER 8" STCO	1.50	22.79	21.29	GAS (DIP)	STCO (HDPE)	25.94	
C-4	1 1/2" GAS OVER 3" WS	1.50	22.98		GAS (DIP)	WM (PVC)	26.12	
C-5	1 1/2" GAS OVER 3" WS	1.50	23.45		GAS (DIP)	WM (PVC)	26.59	
C-6	1 1/2" GAS OVER 8" SAN	1.93	23.56	21.63	GAS (DIP)	SAN (PVC)	26.71	
C-7	3" WS OVER 4" SAN	6.28	23.08	16.80	WM (PVC)	SAN (PVC)	26.57	
C-7A	6" FS OVER 6" FS	3.84	23.42	19.58	FS (PVC)	FS (PVC)	26.52	
C-7B	6" WM OVER 6" FS	3.35	22.85	19.50	WM (PVC)	FS (PVC)	26.55	
C-7C	6" WM OVER 6" FS	1.42	20.92	19.50	WM (PVC)	FS (PVC)	26.54	
C-7D	6" WM OVER 6" WM	1.38	22.89	21.51	WM (PVC)	WM (PVC)	26.55	
C-8	6" WM OVER 8" SAN	8.07	23.09	15.02	WM (PVC)	SAN (PVC)	26.64	
C-9	6" FS OVER 8" SAN	6.16	21.20	15.04	FS (PVC)	SAN (PVC)	26.63	
C-10	WS OVER WS	1.50	22.94		WS	WS	26.23	
C-11	6" FS OVER WS	1.50	19.00		FS (PVC)	WS	26.23	
C-12	6" WM OVER WS	1.50	22.68		WM (PVC)	WS	26.23	
C-13	WS OVER 8" SAN	1.57	22.97	21.41	WM (PVC)	SAN (PVC)	26.26	
C-14	6" FS OVER 6" WM	2.11	23.47	21.36	FS (PVC)	WM (PVC)	26.76	
C-14A	6" FS OVER 3" WS	1.50	23.47		FS (PVC)	WM (PVC)	26.76	
C-15	8" STCO OVER GREASE	1.50	24.40		SAN (PVC)	STCO (HDPE)	27.20	
C-16	1 1/2" GAS OVER 8" STCO	1.50	23.91	22.41	GAS (DIP)	STCO (HDPE)	27.06	

STRUCTURE NAME	STRUCTURE DETAILS
SS-01	CONST. 4' MANHOLE RIM = 28.98 E INV = 10.07 W INV = 9.97
SS-02	CONST. 4' MANHOLE RIM = 25.99 E INV = 11.26 W INV = 11.16
SS-03	CONST. 4' MANHOLE RIM = 28.05 S INV = 15.20 N INV = 12.36
SS-04	CONST. 4' MANHOLE RIM = 28.84 S INV = 13.63 E INV = 13.73
SS-05	CONST. 4' MANHOLE RIM = 28.29 E INV = 15.40 W INV = 15.30
SS-06	CONST. 4' MANHOLE RIM = 28.45 W INV = 18.90
SS-07	CONST. 4' MANHOLE RIM = 28.32 SE INV = 15.87 N INV = 15.77
SS-08	CONST. 4' MANHOLE RIM = 28.90 E INV = 16.69 NW INV = 16.55
SS-09	CONST. 4' MANHOLE RIM = 27.22 W INV = 17.26 SE INV = 17.36
SS-10	CONST. 4' MANHOLE RIM = 28.21 NW INV = 17.97 E INV = 18.07
SS-11	CONST. 4' MANHOLE RIM = 25.70 W INV = 18.35 NE INV = 18.45
SS-12	CONST. 4' MANHOLE RIM = 27.07 SW INV = 20.04 N INV = 20.14
SS-13	CONST. 4' MANHOLE RIM = 28.85 S INV = 20.90



AREA DETAIL
SCALE: 1"=10'



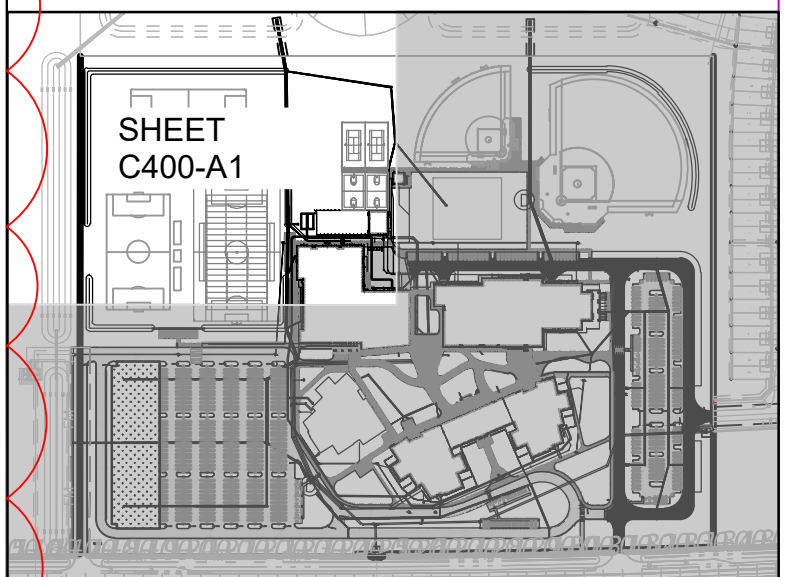
MATCHLINE - C402-A1

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PHONE 772-464-2037 • FAX 772-464-9497 • www.c-t-inc.com
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS		
MARK	DESCRIPTION	DATE
	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23

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Port St. Lucie, FL

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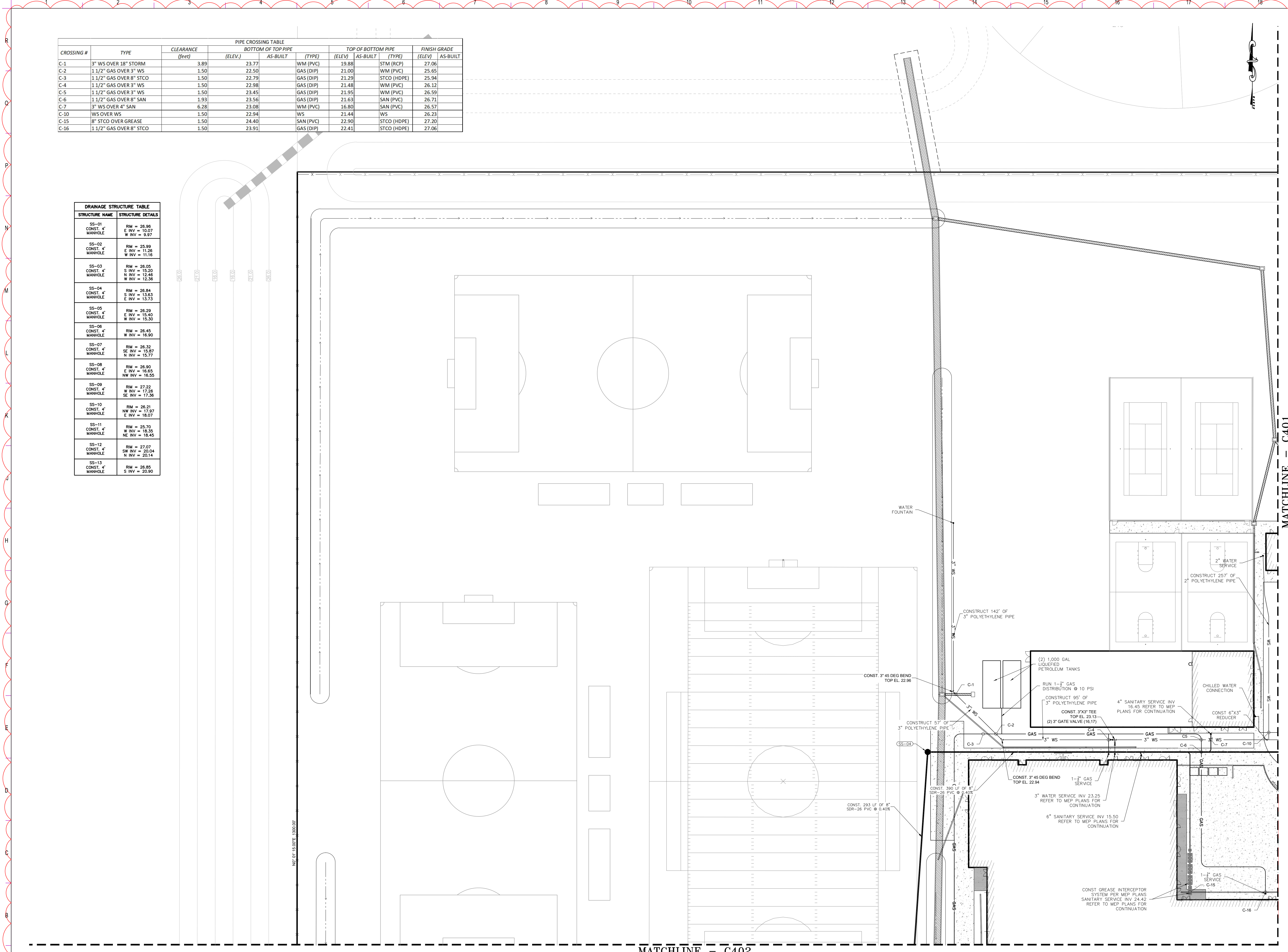
ALTERNATE WATER MAIN DESIGN

C400-A1

EARLY SITE BID PACKAGE

CROSSING #	TYPE	CLEARANCE (feet)	BOTTOM OF TOP PIPE		TOP OF BOTTOM PIPE		FINISH GRADE	
			(ELEV.)	AS-BUILT	(ELEV.)	AS-BUILT	(ELEV.)	AS-BUILT
C-1	3" WS OVER 18" STORM	3.89	23.77	W/M (PVC)	19.88	STM (RCP)	27.06	
C-2	1 1/2" GAS OVER 3" WS	1.50	22.50	GAS (DIP)	21.00	W/M (PVC)	25.65	
C-3	1 1/2" GAS OVER 8" STCO	1.50	22.79	GAS (DIP)	21.29	STCO (HDPE)	25.94	
C-4	1 1/2" GAS OVER 3" WS	1.50	22.98	GAS (DIP)	21.48	W/M (PVC)	26.12	
C-5	1 1/2" GAS OVER 3" WS	1.50	23.45	GAS (DIP)	21.95	W/M (PVC)	26.59	
C-6	1 1/2" GAS OVER 8" SAN	1.93	23.56	GAS (DIP)	21.63	SAN (PVC)	26.71	
C-7	3" WS OVER 4" SAN	6.28	23.08	W/M (PVC)	16.80	SAN (PVC)	26.57	
C-10	WS OVER WS	1.50	22.94	WS	21.44	WS	26.23	
C-15	8" STCO OVER GREASE	1.50	24.40	SAN (PVC)	22.90	STCO (HDPE)	27.20	
C-16	1 1/2" GAS OVER 8" STCO	1.50	23.91	GAS (DIP)	22.41	STCO (HDPE)	27.06	

STRUCTURE NAME	STRUCTURE DETAILS
SS-01 CONST. 4" MANHOLE	RIM = 26.98 E INV = 10.07 W INV = 9.97
SS-02 CONST. 4" MANHOLE	RIM = 25.99 E INV = 11.28 W INV = 11.16
SS-03 CONST. 4" MANHOLE	RIM = 26.05 S INV = 15.20 N INV = 12.46 W INV = 12.36
SS-04 CONST. 4" MANHOLE	RIM = 26.84 S INV = 13.63 E INV = 13.73
SS-05 CONST. 4" MANHOLE	RIM = 26.39 E INV = 15.40 W INV = 15.30
SS-06 CONST. 4" MANHOLE	RIM = 26.45 W INV = 16.90
SS-07 CONST. 4" MANHOLE	RIM = 26.32 SE INV = 15.87 N INV = 15.77
SS-08 CONST. 4" MANHOLE	RIM = 26.90 E INV = 16.65 NW INV = 16.55
SS-09 CONST. 4" MANHOLE	RIM = 27.22 W INV = 17.26 SE INV = 17.36
SS-10 CONST. 4" MANHOLE	RIM = 26.21 NW INV = 17.97 E INV = 18.07
SS-11 CONST. 4" MANHOLE	RIM = 25.70 W INV = 16.35 NE INV = 16.45
SS-12 CONST. 4" MANHOLE	RIM = 27.07 SW INV = 20.04 N INV = 20.14
SS-13 CONST. 4" MANHOLE	RIM = 26.85 S INV = 20.90



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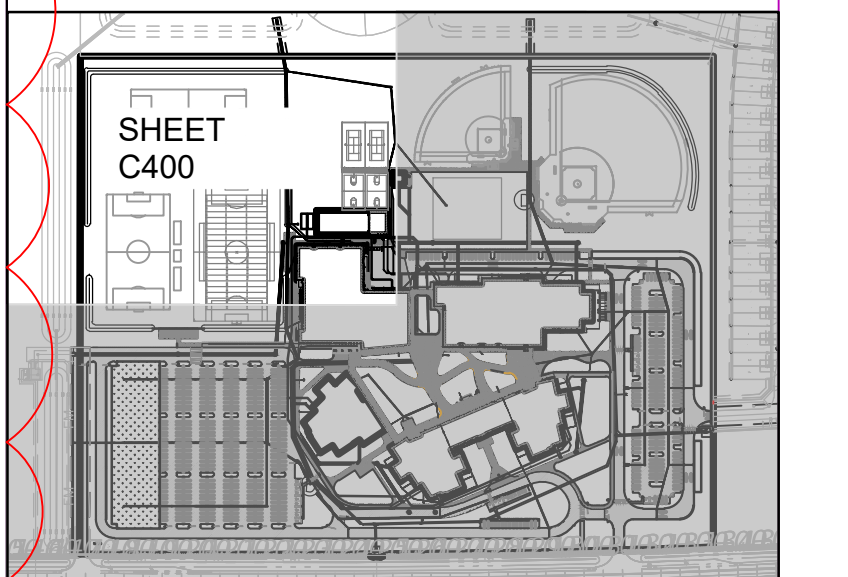
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1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23

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Port St. Lucie, FL



St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

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UTILITY PLAN

C400

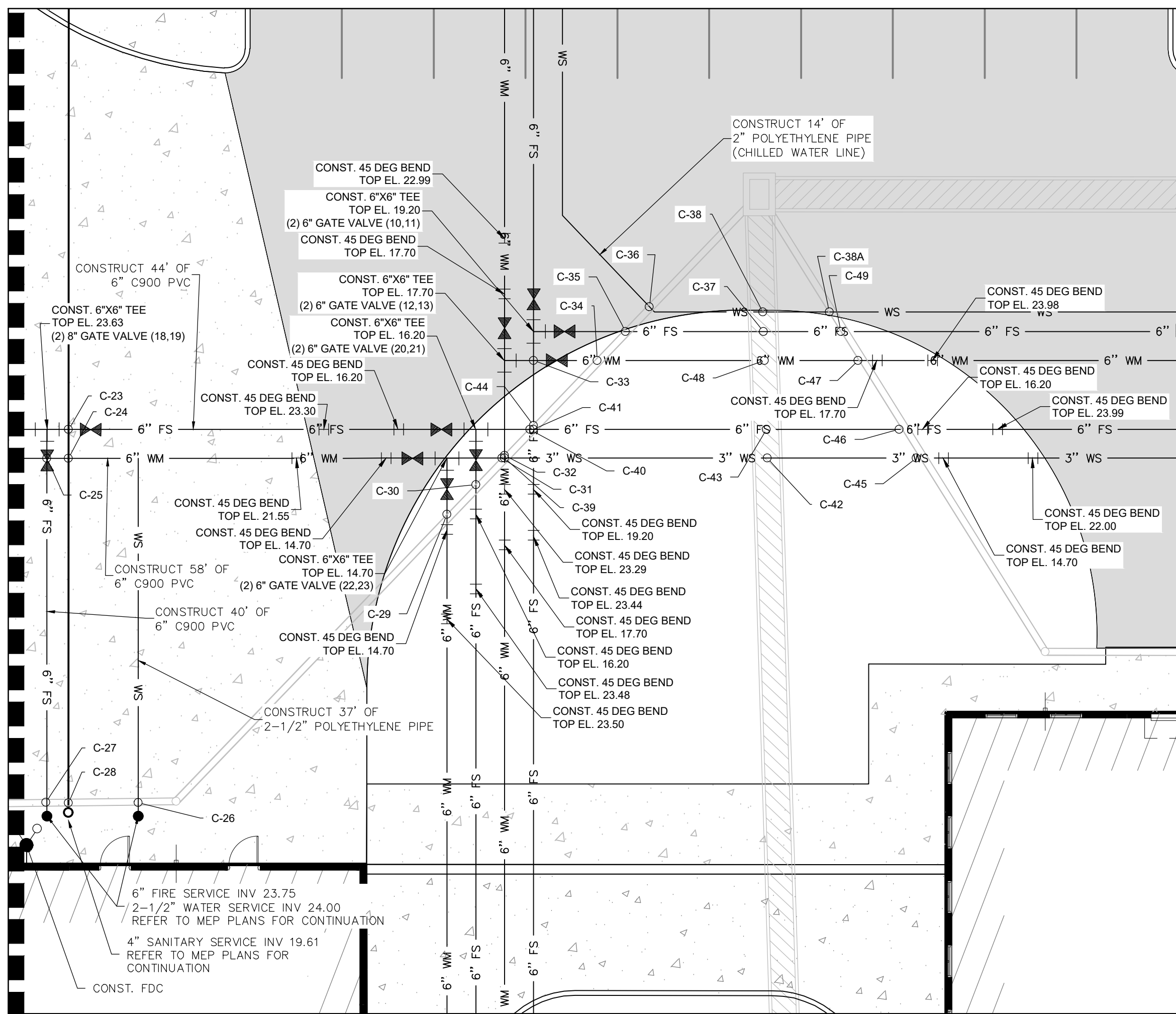
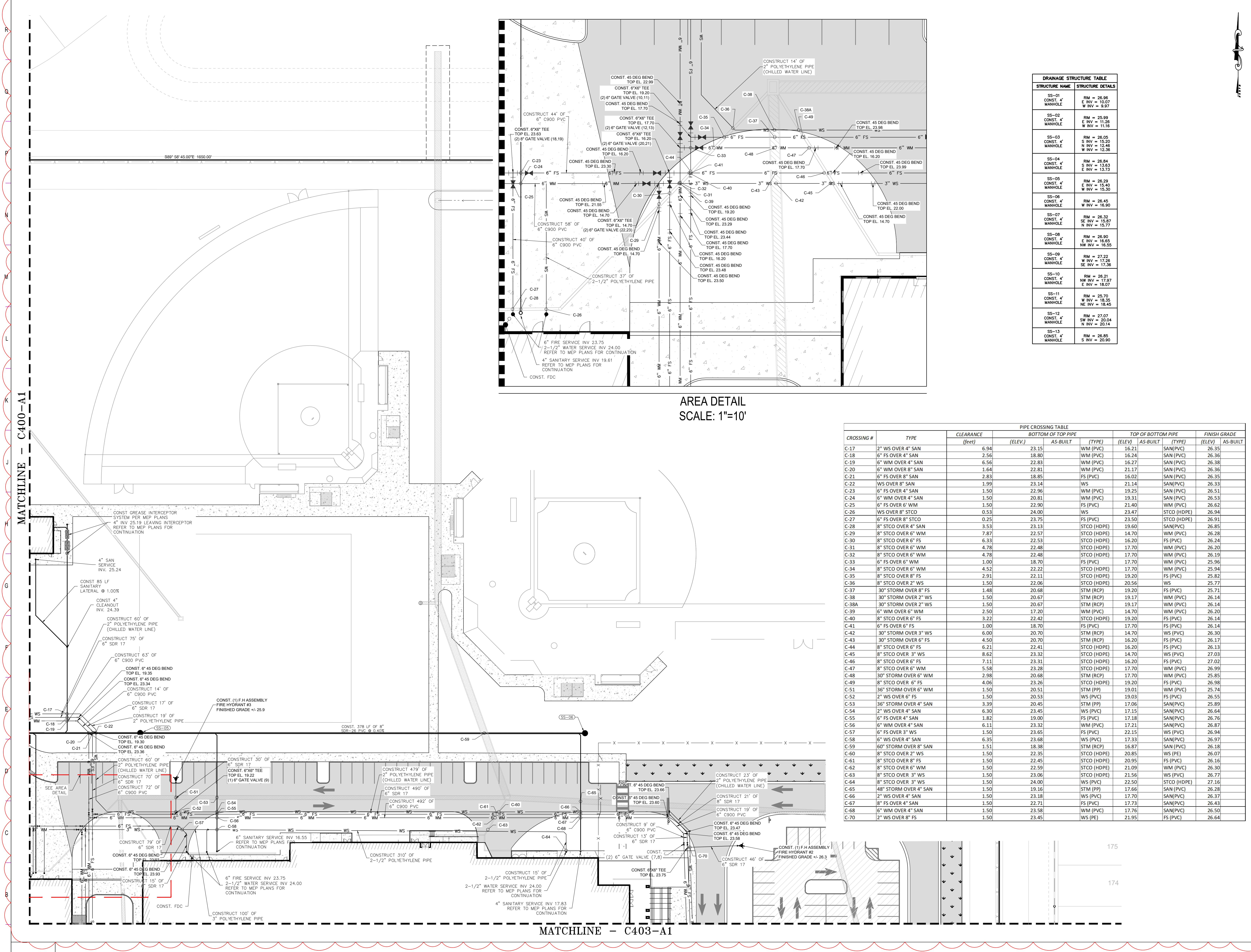
EARLY SITE BID PACKAGE

C400

UTILITY PLAN

1" = 30'

 1 inch = 30 ft.



AREA DETAIL
SCALE: 1"=10'

STRUCTURE NAME	STRUCTURE DETAILS
SS-01 CONST. 4" MANHOLE	RIM = 26.98 E INV = 10.07 W INV = 9.97
SS-02 CONST. 4" MANHOLE	RIM = 26.99 E INV = 11.28 W INV = 11.16
SS-03 CONST. 4" MANHOLE	RIM = 26.05 S INV = 15.20 N INV = 12.46 W INV = 12.36
SS-04 CONST. 4" MANHOLE	RIM = 26.84 S INV = 13.63 E INV = 13.73
SS-05 CONST. 4" MANHOLE	RIM = 26.29 E INV = 15.40 W INV = 15.30
SS-06 CONST. 4" MANHOLE	RIM = 26.45 W INV = 16.90
SS-07 CONST. 4" MANHOLE	RIM = 26.32 SE INV = 15.87 N INV = 15.77
SS-08 CONST. 4" MANHOLE	RIM = 26.90 E INV = 16.65 NW INV = 16.55
SS-09 CONST. 4" MANHOLE	RIM = 27.22 W INV = 17.26 SE INV = 17.36
SS-10 CONST. 4" MANHOLE	RIM = 26.21 NW INV = 17.07 E INV = 18.07
SS-11 CONST. 4" MANHOLE	RIM = 25.70 W INV = 18.35 NE INV = 18.45
SS-12 CONST. 4" MANHOLE	RIM = 27.07 SW INV = 20.04 N INV = 20.14
SS-13 CONST. 4" MANHOLE	RIM = 26.85 S INV = 20.90

CROSSING #	TYPE	CLEARANCE (feet)	BOTTOM OF TOP PIPE		TOP OF BOTTOM PIPE		FINISH GRADE	
			(ELEV.)	AS-BUILT	(ELEV.)	AS-BUILT	(ELEV.)	AS-BUILT
C-17	2" WS OVER 4" SAN	6.94	23.15	WM (PVC)	16.21	SAN (PVC)	26.35	
C-18	6" FS OVER 4" SAN	2.56	18.80	WM (PVC)	16.24	SAN (PVC)	26.36	
C-19	6" WM OVER 4" SAN	6.56	22.83	WM (PVC)	16.27	SAN (PVC)	26.38	
C-20	6" WM OVER 8" SAN	1.64	22.81	WM (PVC)	21.17	SAN (PVC)	26.36	
C-21	6" FS OVER 8" SAN	2.83	18.85	FS (PVC)	16.02	SAN (PVC)	26.35	
C-22	WS OVER 8" SAN	1.99	23.14	WS	21.14	SAN (PVC)	26.33	
C-23	6" FS OVER 4" SAN	1.50	22.96	WM (PVC)	19.25	SAN (PVC)	26.51	
C-24	6" WM OVER 4" SAN	1.50	20.81	WM (PVC)	19.31	SAN (PVC)	26.53	
C-25	6" FS OVER 6" WM	1.50	22.90	FS (PVC)	21.40	WM (PVC)	26.62	
C-26	WS OVER 8" STCO	0.53	24.00	WS	23.47	STCO (HDPE)	26.94	
C-27	6" FS OVER 8" STCO	0.25	23.75	FS (PVC)	23.50	STCO (HDPE)	26.91	
C-28	8" STCO OVER 4" SAN	3.53	23.13	STCO (HDPE)	19.60	SAN (PVC)	26.85	
C-29	8" STCO OVER 6" WM	7.87	22.57	STCO (HDPE)	14.70	WM (PVC)	26.28	
C-30	8" STCO OVER 6" FS	6.33	22.53	STCO (HDPE)	16.20	FS (PVC)	26.24	
C-31	8" STCO OVER 6" WM	4.78	22.48	STCO (HDPE)	17.70	WM (PVC)	26.20	
C-32	8" STCO OVER 6" WM	4.78	22.48	STCO (HDPE)	17.70	WM (PVC)	26.19	
C-33	6" FS OVER 6" WM	1.00	18.70	FS (PVC)	17.70	WM (PVC)	25.96	
C-34	8" STCO OVER 6" WM	4.52	22.22	STCO (HDPE)	17.70	WM (PVC)	25.94	
C-35	8" STCO OVER 8" FS	2.91	22.11	STCO (HDPE)	19.20	FS (PVC)	25.82	
C-36	8" STCO OVER 2" WS	1.50	22.06	STCO (HDPE)	20.56	WS	25.77	
C-37	30" STORM OVER 8" FS	1.48	20.68	STM (RCP)	19.20	FS (PVC)	25.71	
C-38	30" STORM OVER 2" WS	1.50	20.67	STM (RCP)	19.17	WM (PVC)	26.14	
C-38A	30" STORM OVER 2" WS	1.50	20.67	STM (RCP)	19.17	WM (PVC)	26.14	
C-39	6" WM OVER 6" WM	2.50	17.20	WM (PVC)	14.70	WM (PVC)	26.20	
C-40	8" STCO OVER 6" FS	3.22	22.42	STCO (HDPE)	19.20	FS (PVC)	26.14	
C-41	6" FS OVER 6" FS	1.00	18.70	FS (PVC)	17.70	FS (PVC)	26.14	
C-42	30" STORM OVER 3" WS	6.00	20.70	STM (RCP)	14.70	WS (PVC)	26.30	
C-43	30" STORM OVER 6" FS	4.50	20.70	STM (RCP)	16.20	FS (PVC)	26.17	
C-44	8" STCO OVER 6" FS	6.21	22.41	STCO (HDPE)	16.20	FS (PVC)	26.13	
C-45	8" STCO OVER 3" WS	8.62	23.32	STCO (HDPE)	14.70	WS (PVC)	27.03	
C-46	8" STCO OVER 6" FS	7.11	23.31	STCO (HDPE)	16.20	FS (PVC)	27.02	
C-47	8" STCO OVER 6" WM	5.58	23.28	STCO (HDPE)	17.70	WM (PVC)	26.99	
C-48	30" STORM OVER 6" WM	2.98	20.68	STM (RCP)	17.70	WM (PVC)	25.85	
C-49	8" STCO OVER 6" FS	4.06	23.26	STCO (HDPE)	19.20	FS (PVC)	26.98	
C-51	36" STORM OVER 6" WM	1.50	21.51	STM (PP)	19.01	WM (PVC)	25.74	
C-52	2" WS OVER 6" FS	1.50	20.53	WS (PVC)	19.03	FS (PVC)	26.55	
C-53	36" STORM OVER 4" SAN	3.39	20.45	STM (PP)	17.06	SAN (PVC)	25.89	
C-54	2" WS OVER 4" SAN	6.30	23.45	WS (PVC)	17.15	SAN (PVC)	26.64	
C-55	6" FS OVER 4" SAN	1.82	19.00	FS (PVC)	17.18	SAN (PVC)	26.76	
C-56	6" WM OVER 4" SAN	6.11	23.32	WM (PVC)	17.21	SAN (PVC)	26.87	
C-57	6" FS OVER 3" WS	1.50	23.65	FS (PVC)	22.15	WS (PVC)	26.94	
C-58	6" WS OVER 4" SAN	6.35	23.68	WS (PVC)	17.33	SAN (PVC)	26.97	
C-59	60" STORM OVER 8" SAN	1.51	18.36	STM (RCP)	16.87	SAN (PVC)	26.18	
C-60	8" STCO OVER 2" WS	1.50	22.35	STCO (HDPE)	20.85	WS (PE)	26.07	
C-61	8" STCO OVER 8" FS	1.50	22.45	STCO (HDPE)	20.95	FS (PVC)	26.16	
C-62	8" STCO OVER 6" WM	1.50	22.59	STCO (HDPE)	21.09	WM (PVC)	26.30	
C-63	8" STCO OVER 3" WS	1.50	23.06	STCO (HDPE)	21.56	WS (PVC)	26.77	
C-64	8" STCO OVER 3" WS	1.50	24.00	WS (PVC)	22.50	STCO (HDPE)	27.16	
C-65	48" STORM OVER 4" SAN	1.50	19.16	STM (PP)	17.60	SAN (PVC)	26.28	
C-66	2" WS OVER 4" SAN	1.50	23.18	WS (PVC)	17.76	SAN (PVC)	26.37	
C-67	8" FS OVER 4" SAN	1.50	22.71	FS (PVC)	17.73	SAN (PVC)	26.43	
C-68	6" WM OVER 4" SAN	1.50	23.58	WM (PVC)	17.76	SAN (PVC)	26.50	
C-70	2" WS OVER 8" FS	1.50	23.45	WS (PE)	21.95	FS (PVC)	26.64	

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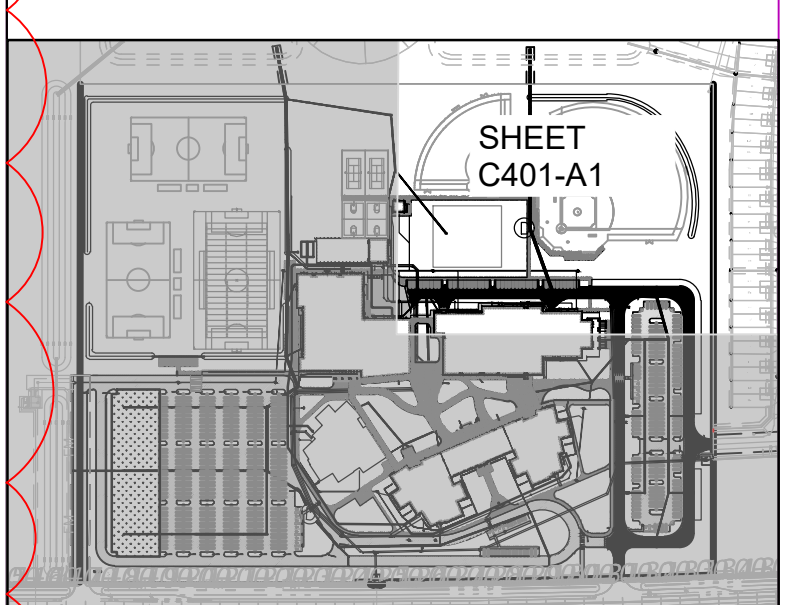
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REVISIONS		
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A	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23

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Port St. Lucie, FL



St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

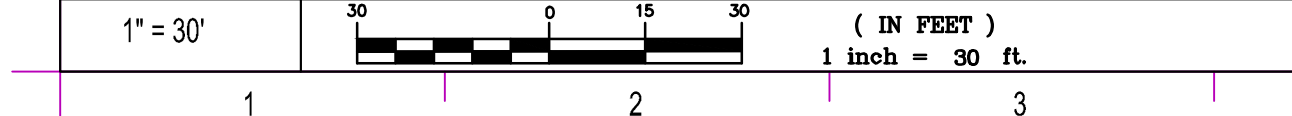
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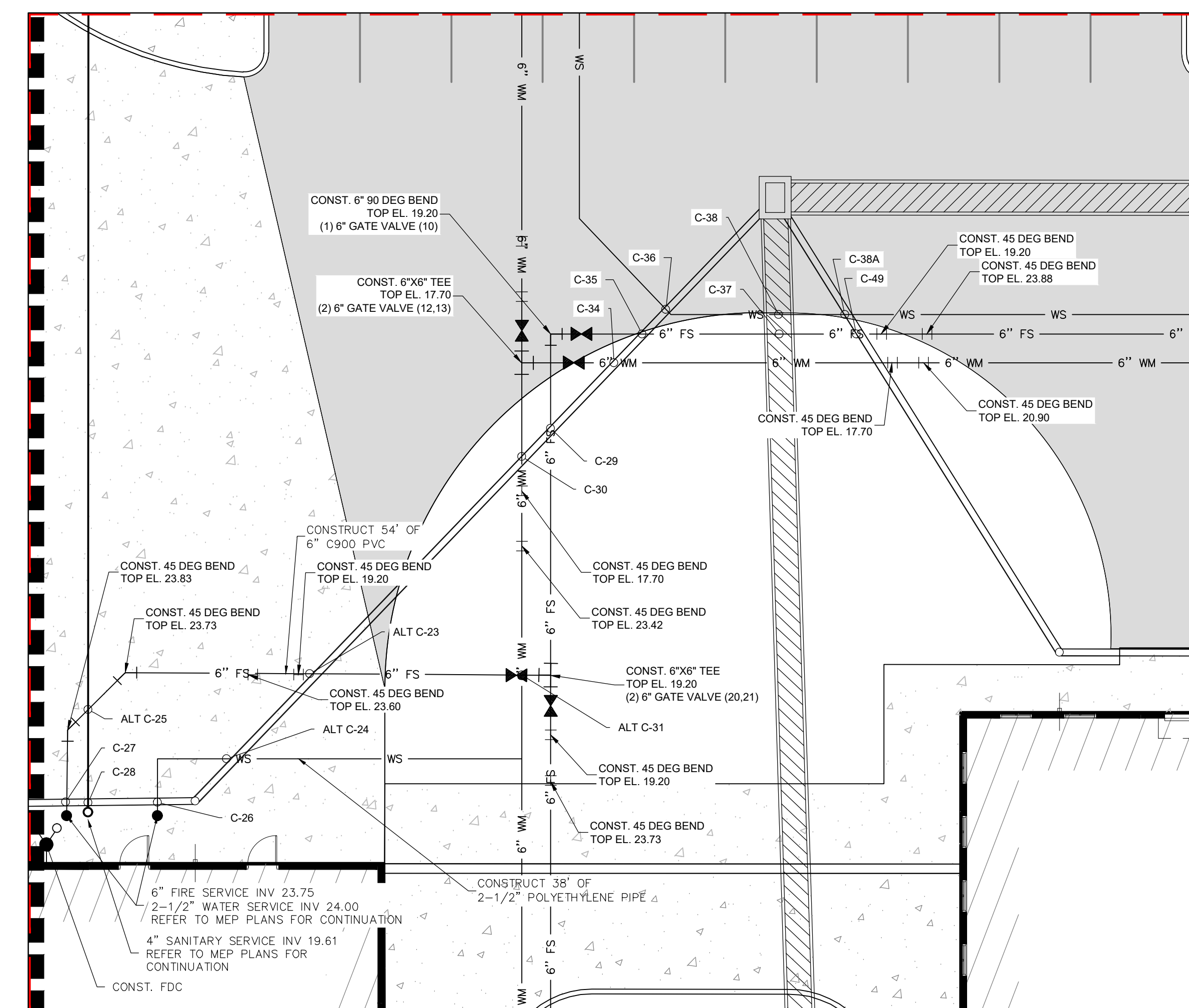
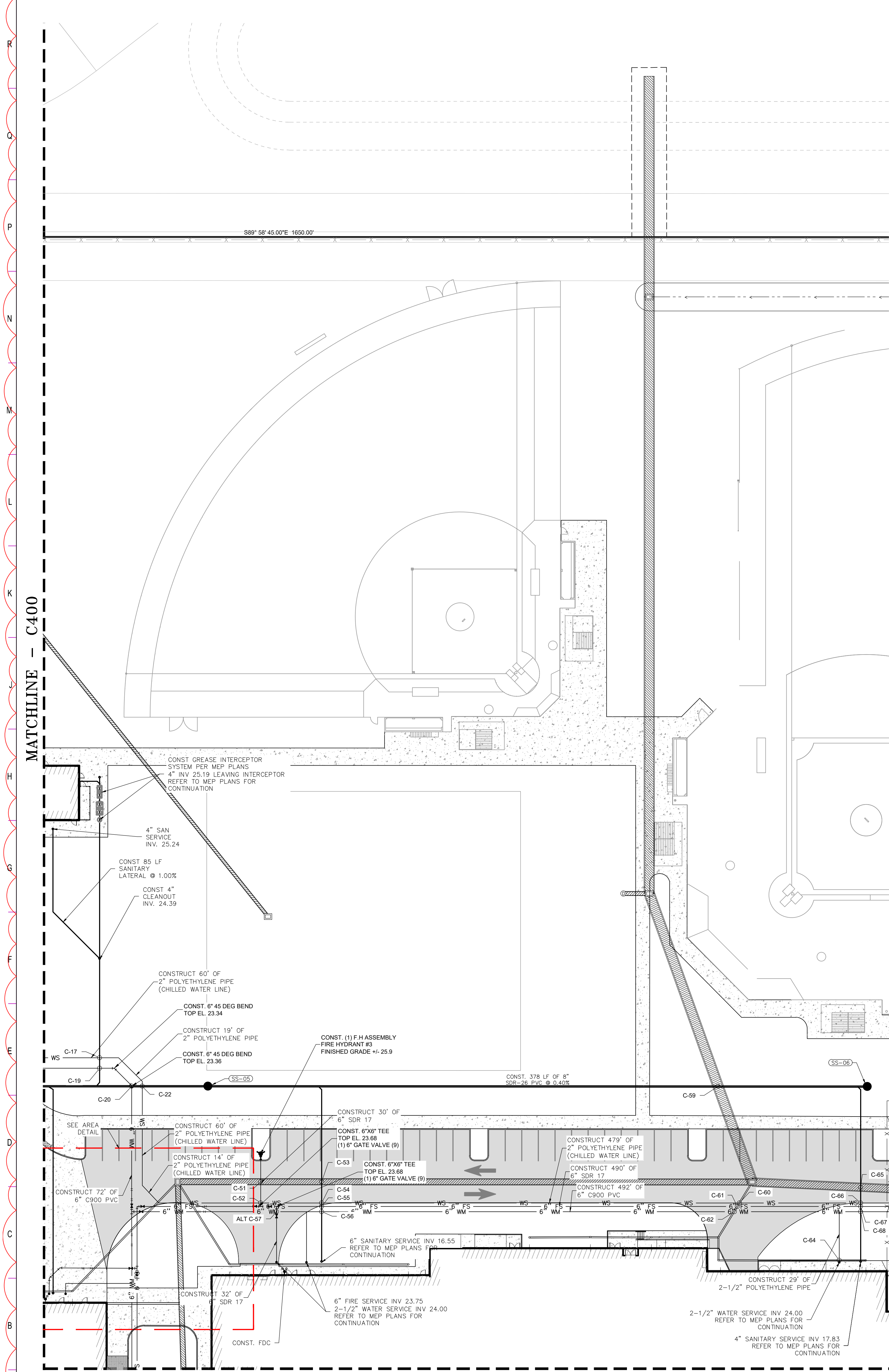
ALTERNATE WATER MAIN DESIGN

C401-A1

EARLY SITE BID PACKAGE

C401-A1 ALTERNATE WATER MAIN DESIGN





STRUCTURE NAME	STRUCTURE DETAILS
SS-01 CONST. 4\"/>	RIM = 26.96 E INV = 10.07 W INV = 9.97
SS-02 CONST. 4\"/>	RIM = 25.99 E INV = 11.26 W INV = 11.16
SS-03 CONST. 4\"/>	RIM = 26.05 S INV = 15.20 N INV = 12.46 W INV = 12.36
SS-04 CONST. 4\"/>	RIM = 26.84 S INV = 13.73
SS-05 CONST. 4\"/>	RIM = 26.20 E INV = 15.40 W INV = 15.30
SS-06 CONST. 4\"/>	RIM = 26.45 W INV = 16.90
SS-07 CONST. 4\"/>	RIM = 26.32 SE INV = 15.87 N INV = 15.77
SS-08 CONST. 4\"/>	RIM = 26.90 E INV = 16.65 NW INV = 16.55
SS-09 CONST. 4\"/>	RIM = 27.22 W INV = 17.26 SE INV = 17.36
SS-10 CONST. 4\"/>	RIM = 26.21 NW INV = 17.97 E INV = 18.07
SS-11 CONST. 4\"/>	RIM = 25.70 W INV = 18.35 NE INV = 18.45
SS-12 CONST. 4\"/>	RIM = 27.07 SW INV = 20.04 N INV = 20.14
SS-13 CONST. 4\"/>	RIM = 26.85 S INV = 20.90

AREA DETAIL
SCALE: 1"=10'

CROSSING #	TYPE	CLEARANCE (feet)	PIPE CROSSING TABLE		TOP OF BOTTOM PIPE		FINISH GRADE	
			BOTTOM OF TOP PIPE (ELEV.)	AS-BUILT (TYPE)	(ELEV.)	AS-BUILT (TYPE)	(ELEV.)	AS-BUILT (TYPE)
C-17	2" WS OVER 4" SAN	6.94	23.15	WM (PVC)	16.21	SAN(PVC)	26.35	26.35
C-19	6" WM OVER 4" SAN	6.56	22.83	WM (PVC)	16.27	SAN (PVC)	26.38	26.38
C-20	6" WM OVER 8" SAN	1.64	22.81	WM (PVC)	21.17	SAN (PVC)	26.36	26.36
C-22	WS OVER 8" SAN	1.99	23.14	WS	21.14	SAN(PVC)	26.33	26.33
ALT C-23	8" STCO OVER 6" FS	3.76	22.96	STCO (HDPE)	19.20	FS (PVC)	26.51	26.51
ALT C-24	8" STCO OVER WS	1.00	22.99	STCO (HDPE)	21.99	WS (PE)	26.53	26.53
ALT C-25	6" FS OVER 4" SAN	3.16	23.25	FS (PVC)	20.09	SAN (PVC)	26.62	26.62
C-26	WS OVER 8" STCO	0.53	24.00	WS	23.47	STCO (HDPE)	26.94	26.94
C-27	6" FS OVER 8" STCO	0.25	23.75	FS (PVC)	23.50	STCO (HDPE)	26.91	26.91
C-28	8" STCO OVER 4" SAN	3.53	23.13	STCO (HDPE)	19.60	SAN(PVC)	26.85	26.85
C-29	8" STCO OVER 6" WM	7.87	22.57	STCO (HDPE)	14.70	WM (PVC)	26.28	26.28
C-30	8" STCO OVER 6" FS	6.33	22.53	STCO (HDPE)	16.20	FS (PVC)	26.24	26.24
ALT C-31	6" WM OVER 6" FS	6.00	20.70	WM (PVC)	18.70	FS (PVC)	26.30	26.30
C-34	8" STCO OVER 6" WM	4.52	22.22	STCO (HDPE)	17.70	WM (PVC)	25.94	25.94
C-35	8" STCO OVER 8" FS	2.91	22.11	STCO (HDPE)	19.20	FS (PVC)	25.82	25.82
C-36	8" STCO OVER 2" WS	1.50	22.06	STCO (HDPE)	20.56	WS	25.77	25.77
C-37	30" STORM OVER 8" FS	1.48	20.68	STM (RCP)	19.20	FS (PVC)	25.71	25.71
C-38	30" STORM OVER 2" WS	1.50	20.67	STM (RCP)	19.17	WM (PVC)	26.14	26.14
C-38A	30" STORM OVER 2" WS	1.50	20.67	STM (RCP)	19.17	WM (PVC)	26.14	26.14
C-49	8" STCO OVER 6" FS	4.06	23.26	STCO (HDPE)	19.20	FS (PVC)	26.98	26.98
C-51	36" STORM OVER 6" WM	1.50	20.51	STM (PP)	19.01	WM (PVC)	25.74	25.74
C-52	2" WS OVER 6" FS	1.50	20.53	WS (PVC)	19.03	FS (PVC)	26.55	26.55
C-53	36" STORM OVER 4" SAN	3.39	20.45	STM (PP)	17.06	SAN(PVC)	25.89	25.89
C-54	2" WS OVER 4" SAN	6.30	23.45	WS (PVC)	17.15	SAN(PVC)	26.64	26.64
C-55	6" FS OVER 4" SAN	1.82	19.00	FS (PVC)	17.18	SAN(PVC)	26.76	26.76
C-56	6" WM OVER 4" SAN	6.11	23.32	WM (PVC)	17.21	SAN(PVC)	26.87	26.87
ALT C-57	6" FS OVER 6" WM	1.50	23.20	FS (PVC)	21.70	WS (PVC)	26.94	26.94
C-59	60" STORM OVER 8" SAN	1.51	18.38	STM (RCP)	16.87	SAN (PVC)	26.18	26.18
C-60	8" STCO OVER 2" WS	1.50	22.35	STCO (HDPE)	20.85	WS (PE)	26.07	26.07
C-61	8" STCO OVER 8" FS	1.50	22.45	STCO (HDPE)	20.95	FS (PVC)	26.16	26.16
C-62	8" STCO OVER 6" WM	1.50	22.59	STCO (HDPE)	21.09	WM (PVC)	26.30	26.30
C-64	8" STCO OVER 3" WS	1.50	24.00	WS (PVC)	22.50	STCO (HDPE)	27.16	27.16
C-65	48" STORM OVER 4" SAN	1.50	19.16	STM (PP)	17.66	SAN (PVC)	26.28	26.28
C-66	2" WS OVER 4" SAN	1.50	23.18	WS (PVC)	17.70	SAN(PVC)	26.37	26.37
C-67	8" FS OVER 4" SAN	1.50	22.71	FS (PVC)	17.73	SAN(PVC)	26.43	26.43
C-68	6" WM OVER 4" SAN	1.50	23.58	WM (PVC)	17.76	SAN(PVC)	26.50	26.50
C-70	2" WS OVER 8" SAN	1.50	23.45	WS (PE)	21.95	FS (PVC)	26.64	26.64

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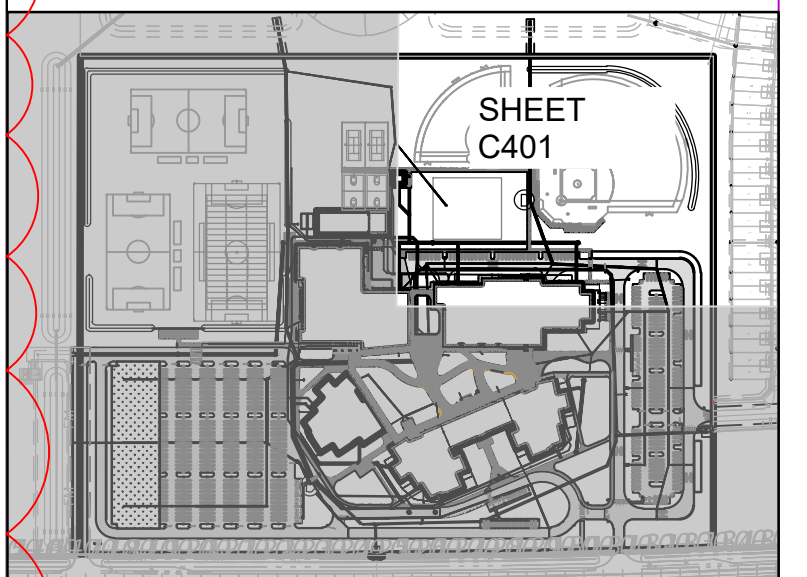
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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

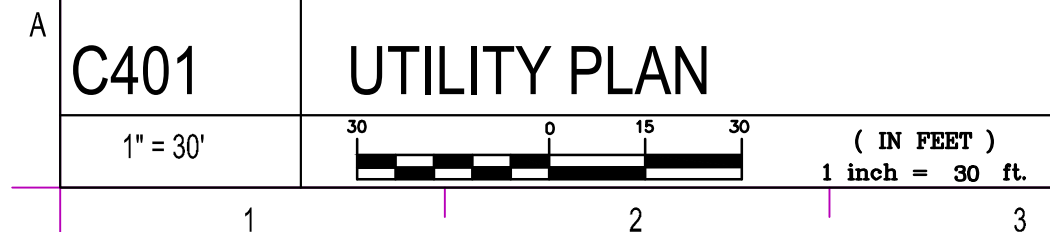
St. Lucie Public Schools
8481 Brandwynne Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
COMM NO.: 2022107
DRAWN BY: ZM CHECKED BY: KEC

UTILITY PLAN

C401

EARLY SITE BID PACKAGE



MATCHLINE - C400-A1

SCHENKELSHULTZ
ARCHITECTURE

200 E. ROBINSON STREET
SUITE 300
ORLANDO, FL 32801
VOICE: 407-872-3322
FAX: 407-872-3303
schenkelsultz.com
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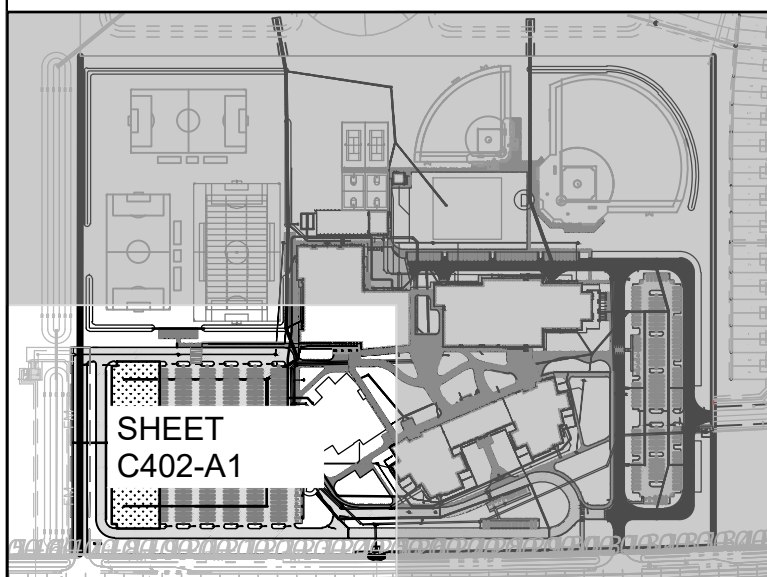
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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4266

REVISIONS		
MARK	DESCRIPTION	DATE
3	ADDENDUM 1 (REFER TO NARRATIVE) ASI #2 - RFI REVISIONS	1/11/23 4/19/23

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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL



St. Lucie Public Schools
9461 Brandwynne Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
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DRAWN BY: ZM CHECKED BY: KEC

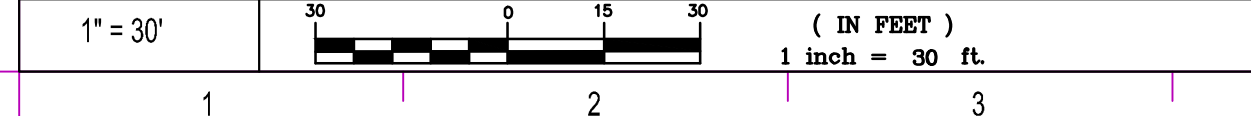
ALTERNATE WATER MAIN DESIGN

C402-A1

EARLY SITE BID PACKAGE

CROSSING #	TYPE	CLEARANCE (feet)	BOTTOM OF TOP PIPE		TOP OF BOTTOM PIPE		FINISH GRADE	
			(ELEV.)	AS-BUILT	(ELEV.)	AS-BUILT	(ELEV.)	AS-BUILT
C-72	1 1/2" GAS OVER 8" STCO	1.50	22.28		GAS (DIP)	23.78	STCO (HDPE)	27.06
C-73	1 1/2" GAS OVER 55" STORM	1.00	24.83		GAS (DIP)	23.83	STM (HDPE)	27.04
C-74	1 1/2" GAS OVER 48" STORM	1.00	25.04		GAS (DIP)	24.04	STM (PP)	26.22
C-74A	48" STORM OVER 8" SAN	3.47	19.32		STM (PP)	15.85	SAN(PVC)	26.18
C-75	8" STCO OVER 6" WM	1.50	23.41		STCO (HDPE)	21.91	WM (PVC)	27.13
C-76	8" STCO OVER 6" FS	1.50	23.33		STCO (HDPE)	21.83	FS (PVC)	27.05
C-77	8" STCO OVER 6" WM	1.50	23.26		STCO (HDPE)	21.76	WM (PVC)	26.98
C-78	8" STCO OVER 6" FS	1.50	23.19		STCO (HDPE)	21.69	FS (PVC)	26.91
C-79	1 1/2" GAS OVER 6" WM	1.50	23.23		GAS (DIP)	21.73	WM (PVC)	26.37
C-80	1 1/2" GAS OVER 6" FS	1.50	23.26		GAS (DIP)	21.76	FS (PVC)	26.40
C-81	1 1/2" GAS OVER 6" WM	1.50	23.29		GAS (DIP)	21.79	WM (PVC)	26.43
C-82	1 1/2" GAS OVER 8" FS	1.50	23.32		GAS (DIP)	21.82	FS (PVC)	26.46
C-83	6" FS OVER 6" WM	1.50	22.97		FS (PVC)	21.47	WM (PVC)	26.52
C-84	6" FS OVER 6" FS	1.50	22.98		FS (PVC)	21.48	FS (PVC)	26.53
C-85	3" WS OVER 6" FS	1.50	23.20		WM (PVC)	21.70	FS (PVC)	26.49
C-86	3" WS OVER 6" WM	1.50	23.23		WM (PVC)	21.73	WM (PVC)	26.52
C-87	3" WS OVER 6" FS	1.50	23.25		FS (PVC)	21.75	FS (PVC)	26.54
C-88	6" WM OVER 8" SAN	1.50	23.26		WM (PVC)	16.65	SAN(PVC)	26.41
C-88A	1 1/2" GAS OVER 6" WM	1.50	23.26		GAS (DIP)	21.76	WM (PVC)	26.41
C-89	6" FS OVER 8" SAN	1.50	23.27		FS (PVC)	16.69	SAN(PVC)	26.42
C-89A	1 1/2" GAS OVER 6" FS	1.50	23.27		GAS (DIP)	21.77	FS (PVC)	26.42
C-90	6" WM OVER 8" SAN	1.50	23.28		WM (PVC)	16.73	SAN(PVC)	26.42
C-90A	1 1/2" GAS OVER 6" WM	1.50	23.28		GAS (DIP)	21.78	WM (PVC)	26.42
C-91	6" FS OVER 8" SAN	1.50	23.28		FS (PVC)	16.77	SAN(PVC)	26.53
C-91A	1 1/2" GAS OVER 6" FS	1.50	23.28		GAS (DIP)	21.78	FS (PVC)	26.53
C-92	6" FS OVER 6" FS	1.50	22.29		FS (PVC)	20.79	WM (PVC)	25.84
C-93	6" WM OVER 6" WM	1.50	22.29		WM (PVC)	20.79	WM (PVC)	25.84
C-94	6" FS OVER 6" FS	1.50	22.16		FS (PVC)	20.66	FS (PVC)	25.88
C-94A	6" WM OVER 6" FS	1.04	23.19		WM (PVC)	22.15	FS (PVC)	26.88
C-95	6" WM OVER 6" FS	1.50	22.19		WM (PVC)	20.69	FS (PVC)	25.91
C-96	36" STORM OVER 6" WM	1.50	20.86		STM (PP)	19.36	WM (PVC)	25.91
C-97	36" STORM OVER 6" FS	0.98	20.87		STM (PP)	19.89	FS (PVC)	25.96
C-98	6" WM OVER 6" FS	1.03	19.74		WM (PVC)	18.71	FS (PVC)	25.88
C-99	6" WM OVER 6" FS	1.05	20.66		WM (PVC)	19.61	FS (PVC)	26.06
C-100	8" STCO OVER 6" SAN	5.48	23.53		STCO (HDPE)	18.05	SAN(PVC)	27.24

C402-A1 ALTERNATE WATER MAIN DESIGN



1" = 30'

9/19/2022 4:09:59 PM

1

MATCHLINE - C400

SCHENKELSHULTZ
ARCHITECTURE

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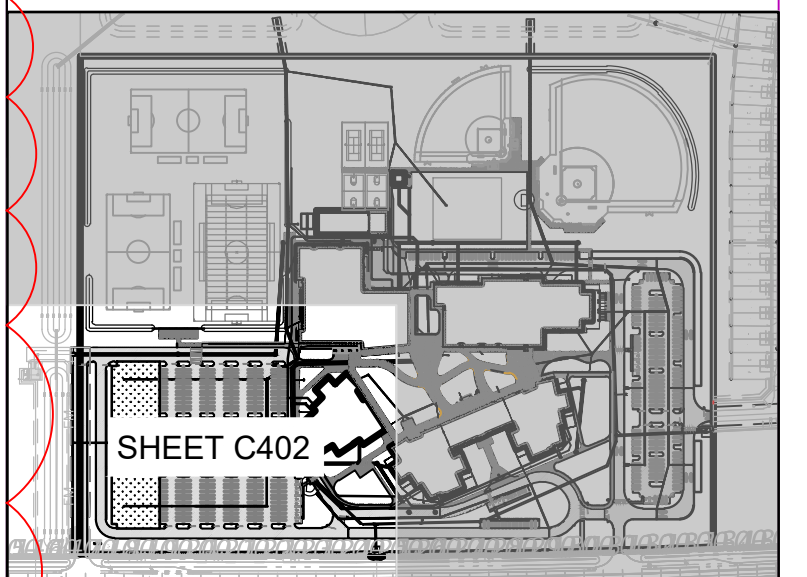
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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4266

REVISIONS		
MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23
3	ASI #2 - RFI REVISIONS	4/19/23

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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL



St. Lucie Public Schools
5461 Brandwynne Ln
Port St. Lucie, FL 34986

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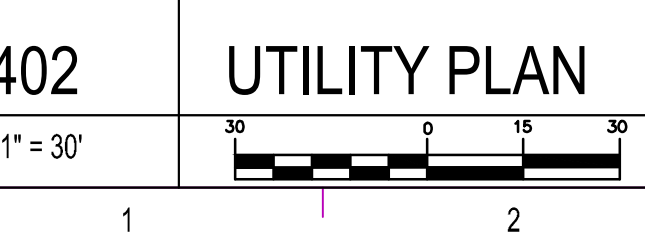
UTILITY PLAN

C402

EARLY SITE BID PACKAGE

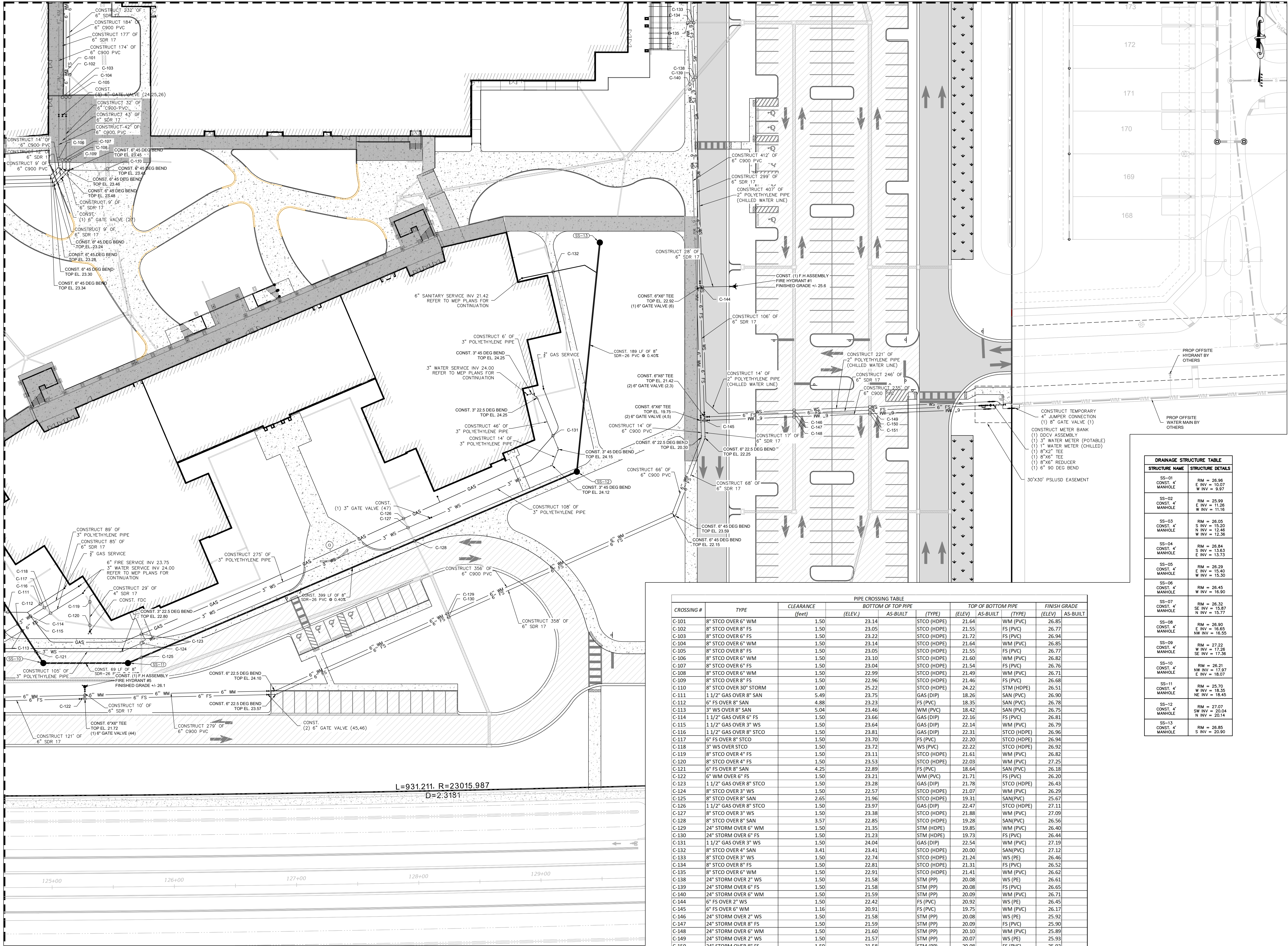
DRAINAGE STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE DETAILS	
SS-01 CONST. 4" MANHOLE	RM = 28.96 E INV = 10.97 W INV = 9.97	
SS-02 CONST. 4" MANHOLE	RM = 25.99 E INV = 11.26 W INV = 11.16	
SS-03 CONST. 4" MANHOLE	RM = 28.05 S INV = 15.20 N INV = 12.46 W INV = 12.36	
SS-04 CONST. 4" MANHOLE	RM = 28.64 S INV = 13.63 E INV = 13.73	
SS-05 CONST. 4" MANHOLE	RM = 28.29 E INV = 15.30 W INV = 15.30	
SS-06 CONST. 4" MANHOLE	RM = 28.48 W INV = 16.90	
SS-07 CONST. 4" MANHOLE	RM = 28.32 SE INV = 15.87 N INV = 15.77	
SS-08 CONST. 4" MANHOLE	RM = 28.50 E INV = 16.55 NW INV = 16.55	
SS-09 CONST. 4" MANHOLE	RM = 27.22 W INV = 17.26 SE INV = 17.36	
SS-10 CONST. 4" MANHOLE	RM = 26.21 NW INV = 17.87 E INV = 18.07	
SS-11 CONST. 4" MANHOLE	RM = 25.70 W INV = 18.35 NE INV = 18.45	
SS-12 CONST. 4" MANHOLE	RM = 27.07 SW INV = 20.04 N INV = 20.14	
SS-13 CONST. 4" MANHOLE	RM = 26.85 S INV = 20.90	

CROSSING #	TYPE	CLEARANCE (feet)	PIPE CROSSING TABLE		BOTTOM OF TOP PIPE		TOP OF BOTTOM PIPE		FINISH GRADE	
			(ELEV.)	AS-BUILT	(TYPE)	(ELEV.)	AS-BUILT	(TYPE)	(ELEV.)	AS-BUILT
C-72	1 1/2" GAS OVER 8" STCO	1.50	22.28		GAS (DIP)	23.78	STCO (HDPE)	27.06		
C-73	1 1/2" GAS OVER 8" STORM	1.00	24.83		GAS (DIP)	23.83	STM (HDPE)	27.04		
C-74	1 1/2" GAS OVER 48" STORM	1.00	25.04		GAS (DIP)	24.04	STM (PP)	26.22		
C-74A	48" STORM OVER 8" SAN	3.47	19.32		STM (PP)	15.85	SAN(PVC)	26.18		
C-77	8" STCO OVER 6" WM	1.50	23.26		STCO (HDPE)	21.76	WM (PVC)	26.98		
C-78	8" STCO OVER 6" FS	1.50	23.19		STCO (HDPE)	21.69	FS (PVC)	26.91		
C-81	1 1/2" GAS OVER 6" WM	1.50	23.29		GAS (DIP)	21.79	WM (PVC)	26.43		
C-82	1 1/2" GAS OVER 8" FS	1.50	23.32		GAS (DIP)	21.82	FS (PVC)	26.46		
C-87	3" WS OVER 6" FS	1.50	23.25		WM (PVC)	21.75	FS (PVC)	26.54		
C-90	6" WM OVER 8" SAN	1.50	23.28		WM (PVC)	16.73	SAN(PVC)	26.42		
C-90A	1 1/2" GAS OVER 6" WM	1.50	23.28		GAS (DIP)	21.78	WM (PVC)	26.42		
C-91	6" FS OVER 8" SAN	1.50	23.78		FS (PVC)	16.77	SAN(PVC)	26.93		
C-91A	1 1/2" GAS OVER 6" FS	1.50	23.38		GAS (DIP)	21.88	FS (PVC)	26.93		
C-96	36" STORM OVER 6" WM	1.50	20.86		STM (PP)	19.36	WM (PVC)	25.91		
C-97	36" STORM OVER 6" FS	0.98	20.87		STM (PP)	19.89	FS (PVC)	25.96		
C-98	6" WM OVER 6" FS	1.03	19.74		WM (PVC)	18.71	FS (PVC)	25.88		
C-99	6" WM OVER 6" FS	1.05	20.66		WM (PVC)	19.61	FS (PVC)	26.06		
C-100	8" STCO OVER 6" SAN	5.48	23.53		STCO (HDPE)	18.05	SAN(PVC)	27.24		



11/9/2022 4:10:39 PM

MATCHLINE - C401-A1



STRUCTURE NAME	STRUCTURE DETAILS
SS-01 CONST. 4' MANHOLE	RM = 26.96 E INV = 10.07 W INV = 9.97
SS-02 CONST. 4' MANHOLE	RM = 25.99 E INV = 11.26 W INV = 11.16
SS-03 CONST. 4' MANHOLE	RM = 26.05 S INV = 15.20 N INV = 12.46 W INV = 12.36
SS-04 CONST. 4' MANHOLE	RM = 26.84 S INV = 13.63 E INV = 13.73
SS-05 CONST. 4' MANHOLE	RM = 26.29 E INV = 15.40 W INV = 15.30
SS-06 CONST. 4' MANHOLE	RM = 26.45 W INV = 16.90
SS-07 CONST. 4' MANHOLE	RM = 26.32 SE INV = 15.87 N INV = 15.77
SS-08 CONST. 4' MANHOLE	RM = 26.90 E INV = 16.65 NW INV = 16.55
SS-09 CONST. 4' MANHOLE	RM = 27.22 W INV = 17.26 SE INV = 17.36
SS-10 CONST. 4' MANHOLE	RM = 26.21 NW INV = 17.97 E INV = 18.07
SS-11 CONST. 4' MANHOLE	RM = 25.70 W INV = 18.35 NE INV = 18.45
SS-12 CONST. 4' MANHOLE	RM = 27.07 SW INV = 20.04 N INV = 20.14
SS-13 CONST. 4' MANHOLE	RM = 26.85 S INV = 20.90

CROSSING #	TYPE	CLEARANCE (feet)	PIPE CROSSING TABLE		FINISH GRADE
			BOTTOM OF TOP PIPE (ELEV.)	TOP OF BOTTOM PIPE (ELEV.)	
C-101	8" STCO OVER 6" WM	1.50	23.14	21.64	26.85
C-102	8" STCO OVER 8" FS	1.50	23.05	21.55	26.77
C-103	8" STCO OVER 6" FS	1.50	23.22	21.72	26.94
C-104	8" STCO OVER 6" WM	1.50	23.14	21.64	26.85
C-105	8" STCO OVER 8" FS	1.50	23.05	21.55	26.77
C-106	8" STCO OVER 6" WM	1.50	23.10	21.60	26.82
C-107	8" STCO OVER 6" FS	1.50	23.04	21.54	26.76
C-108	8" STCO OVER 6" WM	1.50	22.99	21.49	26.71
C-109	8" STCO OVER 8" FS	1.50	22.96	21.46	26.68
C-110	8" STCO OVER 30" STORM	1.00	25.22	24.22	26.51
C-111	1 1/2" GAS OVER 8" SAN	5.49	23.75	18.26	26.90
C-112	6" FS OVER 8" SAN	4.88	23.23	18.35	26.78
C-113	3" WS OVER 8" SAN	5.04	23.46	18.42	26.75
C-114	1 1/2" GAS OVER 6" FS	1.50	23.66	22.16	26.81
C-115	1 1/2" GAS OVER 3" WS	1.50	23.64	22.14	26.79
C-116	1 1/2" GAS OVER 8" STCO	1.50	23.81	22.31	26.96
C-117	6" FS OVER 8" STCO	1.50	23.70	22.20	26.94
C-118	3" WS OVER STCO	1.50	23.72	22.22	26.92
C-119	8" STCO OVER 4" FS	1.50	23.11	21.61	26.82
C-120	8" STCO OVER 4" FS	1.50	23.53	22.03	27.25
C-121	6" FS OVER 8" SAN	4.25	22.89	18.64	26.18
C-122	6" WM OVER 6" FS	1.50	23.21	21.71	26.20
C-123	1 1/2" GAS OVER 8" STCO	1.50	23.28	21.78	26.43
C-124	8" STCO OVER 3" WS	1.50	22.57	21.07	26.29
C-125	8" STCO OVER 8" SAN	2.65	21.96	19.31	25.67
C-126	1 1/2" GAS OVER 8" STCO	1.50	23.97	22.47	27.11
C-127	8" STCO OVER 3" WS	1.50	23.38	21.88	27.09
C-128	8" STCO OVER 8" SAN	3.57	22.85	19.28	26.56
C-129	24" STORM OVER 6" WM	1.50	21.35	20.85	26.40
C-130	24" STORM OVER 6" FS	1.50	21.23	20.73	26.44
C-131	1 1/2" GAS OVER 3" WS	1.50	24.04	22.54	27.19
C-132	8" STCO OVER 4" SAN	3.41	23.41	20.00	27.12
C-133	8" STCO OVER 3" WS	1.50	22.74	21.24	26.46
C-134	8" STCO OVER 8" FS	1.50	22.81	21.31	26.52
C-135	8" STCO OVER 6" WM	1.50	22.91	21.41	26.62
C-138	24" STORM OVER 2" WS	1.50	21.58	20.08	26.61
C-139	24" STORM OVER 6" FS	1.50	21.58	20.08	26.65
C-140	24" STORM OVER 6" WM	1.50	21.59	20.09	26.71
C-144	6" FS OVER 2" WS	1.50	22.42	20.92	26.45
C-145	6" FS OVER 6" WM	1.16	20.91	19.75	26.17
C-146	24" STORM OVER 2" WS	1.50	21.58	20.08	25.92
C-147	24" STORM OVER 8" FS	1.50	21.59	20.09	25.90
C-148	24" STORM OVER 6" WM	1.50	21.60	20.10	25.89
C-149	24" STORM OVER 2" WS	1.50	21.57	20.07	25.93
C-150	24" STORM OVER 8" FS	1.50	21.58	20.08	25.92
C-151	24" STORM OVER 6" WM	1.50	21.59	20.09	25.90

L=931.211, R=23015.987
D=2.3181

C403-A1 ALTERNATE WATER MAIN DESIGN



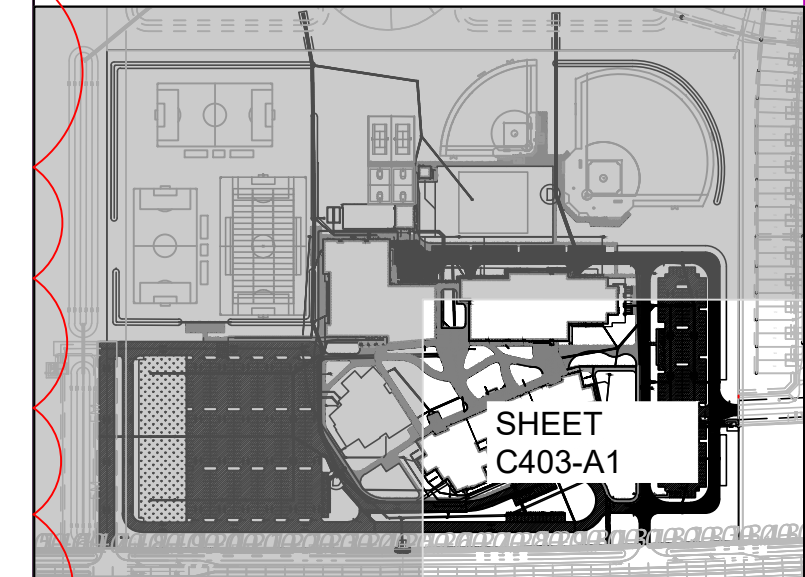
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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

MARK	REVISIONS	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23

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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL



St. Lucie Public Schools
9481 Brandywine Ln
Port St. Lucie, FL 34986

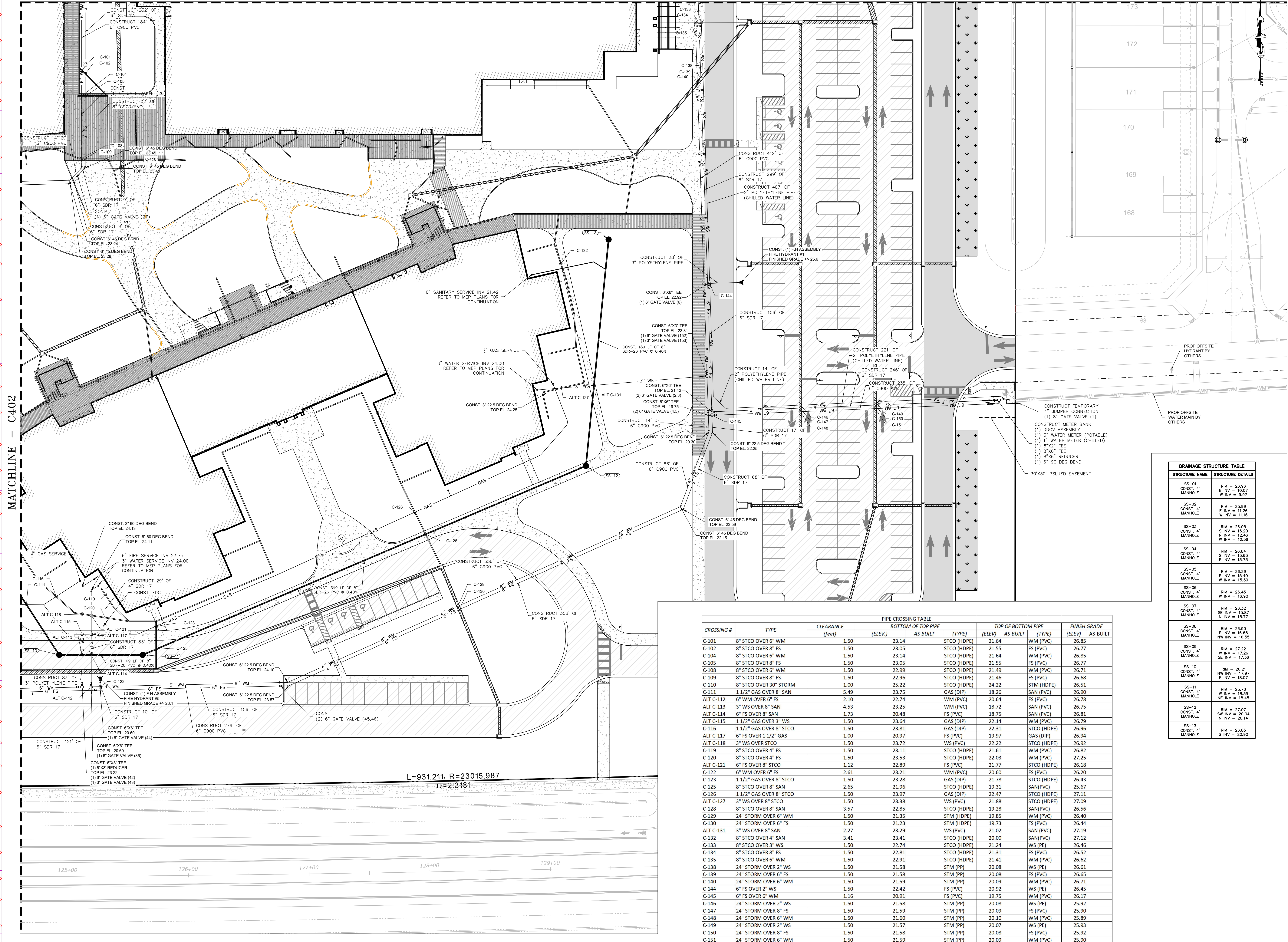
ISSUE DATE: 10/12/22
CDMM NO.: 2022107
DRAWN BY: ZM CHECKED BY: KEC

ALTERNATE WATER MAIN DESIGN

C403-A1

EARLY SITE BID PACKAGE

MATCHLINE - C401



MATCHLINE - C402

L=931.211, R=23015.987
D=2.3131

CROSSING #	TYPE	CLEARANCE		BOTTOM OF TOP PIPE		TOP OF BOTTOM PIPE		FINISH GRADE	
		(feet)	(ELEV.)	(ELEV.)	(TYPE)	(ELEV.)	(TYPE)	(ELEV.)	(AS-BUILT)
C-101	8" STCO OVER 6" WM	1.50	23.14	23.14	STCO (HDPE)	21.64	WM (PVC)	26.85	
C-102	8" STCO OVER 8" FS	1.50	23.05	23.05	STCO (HDPE)	21.55	FS (PVC)	26.77	
C-104	8" STCO OVER 6" WM	1.50	23.14	23.14	STCO (HDPE)	21.64	WM (PVC)	26.85	
C-105	8" STCO OVER 8" FS	1.50	23.05	23.05	STCO (HDPE)	21.55	FS (PVC)	26.77	
C-108	8" STCO OVER 6" WM	1.50	23.09	23.09	STCO (HDPE)	21.49	WM (PVC)	26.71	
C-109	8" STCO OVER 8" FS	1.50	22.96	22.96	STCO (HDPE)	21.46	FS (PVC)	26.68	
C-110	8" STCO OVER 30" STORM	1.00	25.22	25.22	STCO (HDPE)	24.22	STM (HDPE)	26.51	
C-111	1 1/2" GAS OVER 8" SAN	5.49	23.75	23.75	GAS (DIP)	18.26	SAN (PVC)	26.90	
ALT C-112	6" WM OVER 6" FS	2.10	22.74	22.74	WM (PVC)	20.64	FS (PVC)	26.78	
ALT C-113	3" WS OVER 8" SAN	4.53	23.25	23.25	WM (PVC)	18.72	SAN (PVC)	26.75	
ALT C-114	6" FS OVER 8" SAN	1.73	20.48	20.48	FS (PVC)	18.75	SAN (PVC)	26.81	
ALT C-115	1 1/2" GAS OVER 3" WS	1.50	23.64	23.64	GAS (DIP)	22.14	WM (PVC)	26.79	
C-116	1 1/2" GAS OVER 8" STCO	1.50	23.81	23.81	GAS (DIP)	22.31	STCO (HDPE)	26.96	
ALT C-117	6" FS OVER 1 1/2" GAS	1.00	20.97	20.97	FS (PVC)	19.97	GAS (DIP)	26.94	
ALT C-118	3" WS OVER STCO	1.50	23.72	23.72	WS (PVC)	22.22	STCO (HDPE)	26.92	
C-119	8" STCO OVER 4" FS	1.50	23.11	23.11	STCO (HDPE)	21.61	WM (PVC)	26.82	
C-120	8" STCO OVER 4" FS	1.50	23.53	23.53	STCO (HDPE)	22.03	WM (PVC)	27.25	
ALT C-121	6" FS OVER 8" STCO	1.12	22.89	22.89	FS (PVC)	21.77	STCO (HDPE)	26.18	
C-122	6" WM OVER 6" FS	2.61	23.21	23.21	WM (PVC)	20.60	FS (PVC)	26.20	
C-123	1 1/2" GAS OVER 8" STCO	1.50	23.28	23.28	GAS (DIP)	21.78	STCO (HDPE)	26.43	
C-125	8" STCO OVER 8" SAN	2.65	21.96	21.96	STCO (HDPE)	19.31	SAN (PVC)	25.67	
C-126	1 1/2" GAS OVER 8" STCO	1.50	23.97	23.97	GAS (DIP)	22.47	STCO (HDPE)	27.11	
ALT C-127	3" WS OVER 8" STCO	1.50	23.38	23.38	WS (PVC)	21.88	STCO (HDPE)	27.09	
C-128	8" STCO OVER 8" SAN	3.57	22.85	22.85	STCO (HDPE)	19.28	SAN (PVC)	26.56	
C-129	24" STORM OVER 6" WM	1.50	21.35	21.35	STM (HDPE)	19.85	WM (PVC)	26.40	
C-130	24" STORM OVER 6" FS	1.50	21.23	21.23	STM (HDPE)	19.73	FS (PVC)	26.44	
ALT C-131	3" WS OVER 8" SAN	2.27	23.29	23.29	WS (PVC)	21.02	SAN (PVC)	27.19	
C-132	8" STCO OVER 4" SAN	3.41	23.41	23.41	STCO (HDPE)	20.00	SAN (PVC)	27.12	
C-133	8" STCO OVER 3" WS	1.50	22.74	22.74	STCO (HDPE)	21.24	WS (PE)	26.46	
C-134	8" STCO OVER 8" FS	1.50	22.81	22.81	STCO (HDPE)	21.31	FS (PVC)	26.52	
C-135	8" STCO OVER 6" WM	1.50	22.91	22.91	STCO (HDPE)	21.41	WM (PVC)	26.62	
C-138	24" STORM OVER 2" WS	1.50	21.58	21.58	STM (PP)	20.08	WS (PE)	26.61	
C-139	24" STORM OVER 6" FS	1.50	21.58	21.58	STM (PP)	20.08	FS (PVC)	26.65	
C-140	24" STORM OVER 6" WM	1.50	21.59	21.59	STM (PP)	20.09	WM (PVC)	26.71	
C-144	6" FS OVER 2" WS	1.50	22.42	22.42	FS (PVC)	20.92	WS (PE)	26.45	
C-145	6" FS OVER 6" WM	1.16	20.91	20.91	FS (PVC)	19.75	WM (PVC)	26.17	
C-146	24" STORM OVER 2" WS	1.50	21.58	21.58	STM (PP)	20.08	WS (PE)	26.92	
C-147	24" STORM OVER 8" FS	1.50	21.59	21.59	STM (PP)	20.09	FS (PVC)	26.90	
C-148	24" STORM OVER 6" WM	1.50	21.60	21.60	STM (PP)	20.10	WM (PVC)	26.89	
C-149	24" STORM OVER 2" WS	1.50	21.57	21.57	STM (PP)	20.07	WS (PE)	26.93	
C-150	24" STORM OVER 8" FS	1.50	21.58	21.58	STM (PP)	20.08	FS (PVC)	26.92	
C-151	24" STORM OVER 6" WM	1.50	21.59	21.59	STM (PP)	20.09	WM (PVC)	26.90	

STRUCTURE NAME	STRUCTURE DETAILS
SS-01 CONST. 4" MANHOLE	RM = 26.86 E INV = 10.07 W INV = 9.97
SS-02 CONST. 4" MANHOLE	RM = 26.89 E INV = 11.26 W INV = 11.16
SS-03 CONST. 4" MANHOLE	RM = 26.05 S INV = 13.50 E INV = 12.46 W INV = 12.36
SS-04 CONST. 4" MANHOLE	RM = 26.84 E INV = 13.83 E INV = 13.73
SS-05 CONST. 4" MANHOLE	RM = 26.29 E INV = 15.40 W INV = 15.30
SS-06 CONST. 4" MANHOLE	RM = 26.45 W INV = 16.90
SS-07 CONST. 4" MANHOLE	RM = 26.32 SE INV = 15.87 N INV = 10.77
SS-08 CONST. 4" MANHOLE	RM = 26.90 E INV = 16.85 NW INV = 16.55
SS-09 CONST. 4" MANHOLE	RM = 27.22 W INV = 17.26 SE INV = 17.36
SS-10 CONST. 4" MANHOLE	RM = 26.21 NW INV = 17.97 E INV = 18.07
SS-11 CONST. 4" MANHOLE	RM = 26.70 W INV = 18.35 NE INV = 18.45
SS-12 CONST. 4" MANHOLE	RM = 27.07 SW INV = 20.04 N INV = 20.14
SS-13 CONST. 4" MANHOLE	RM = 26.85 S INV = 20.00

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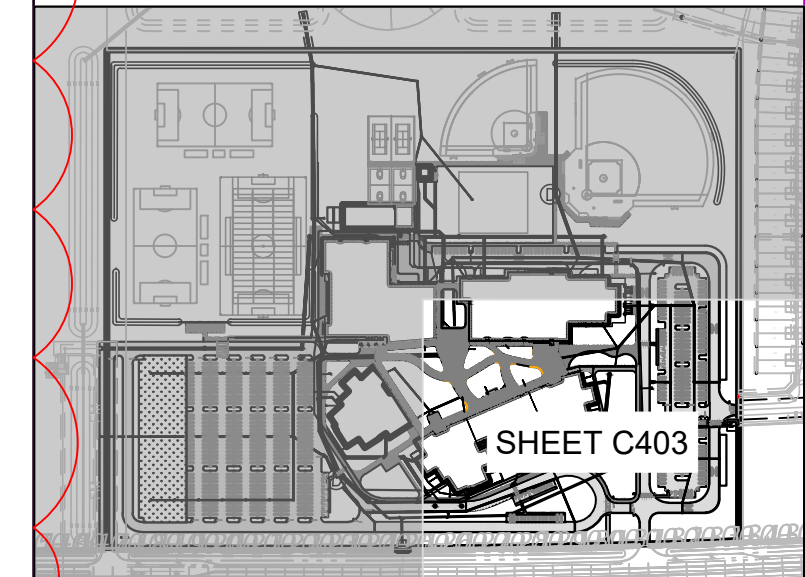
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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

MARK	REVISIONS	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23

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SHEET C403

ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
COMM NO.: 2022107

DRAWN BY: ZM CHECKED BY: KEC

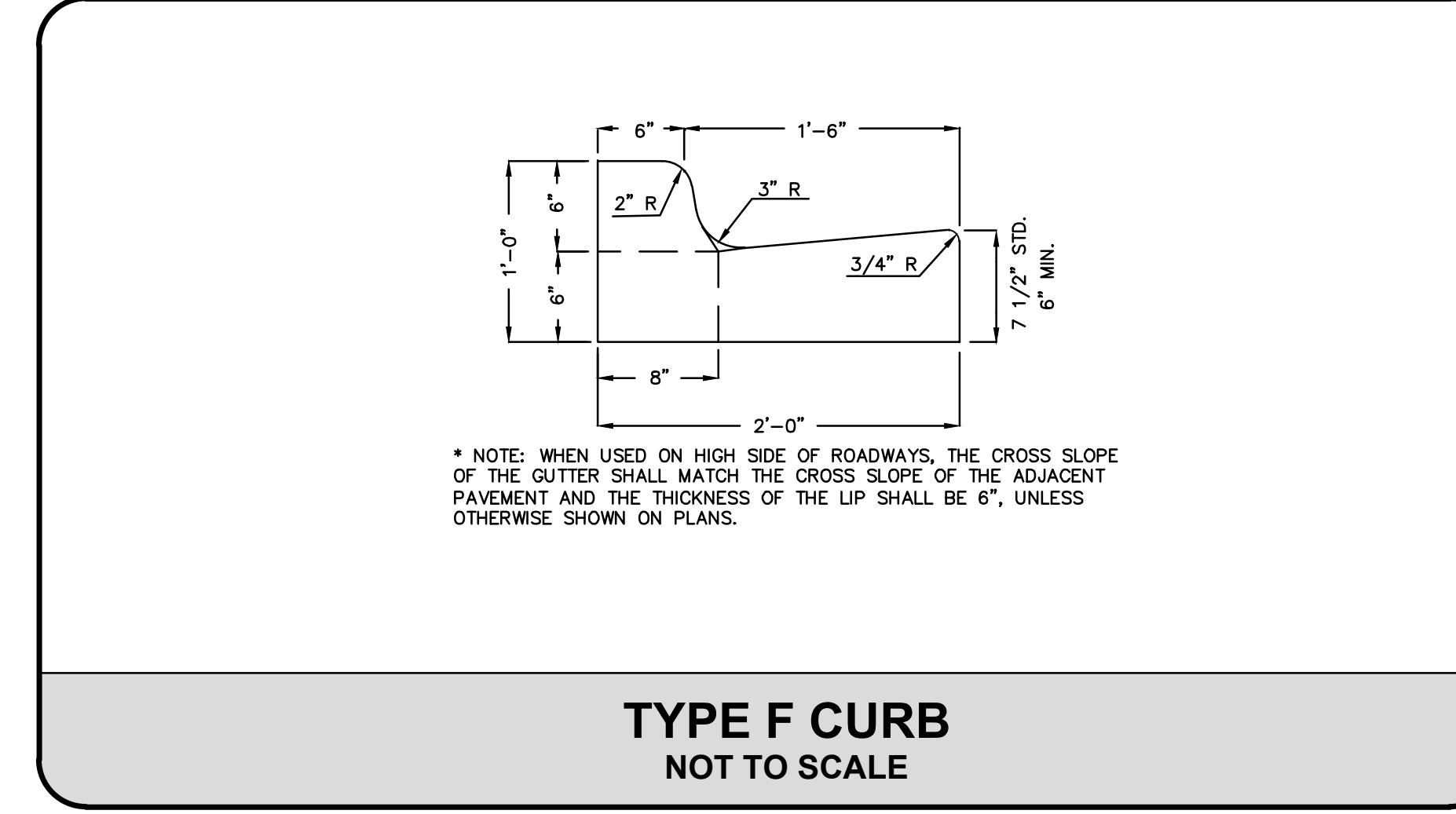
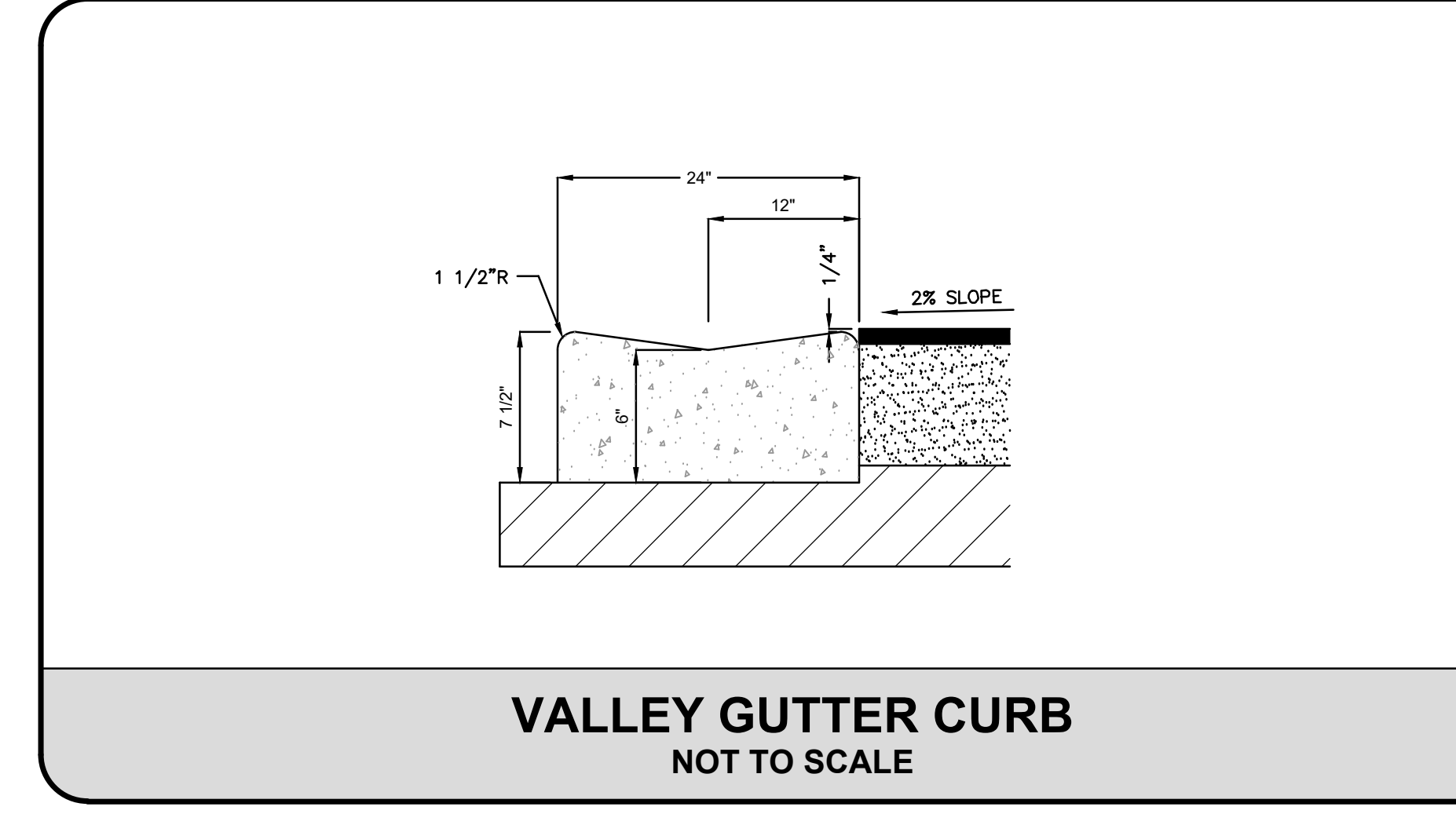
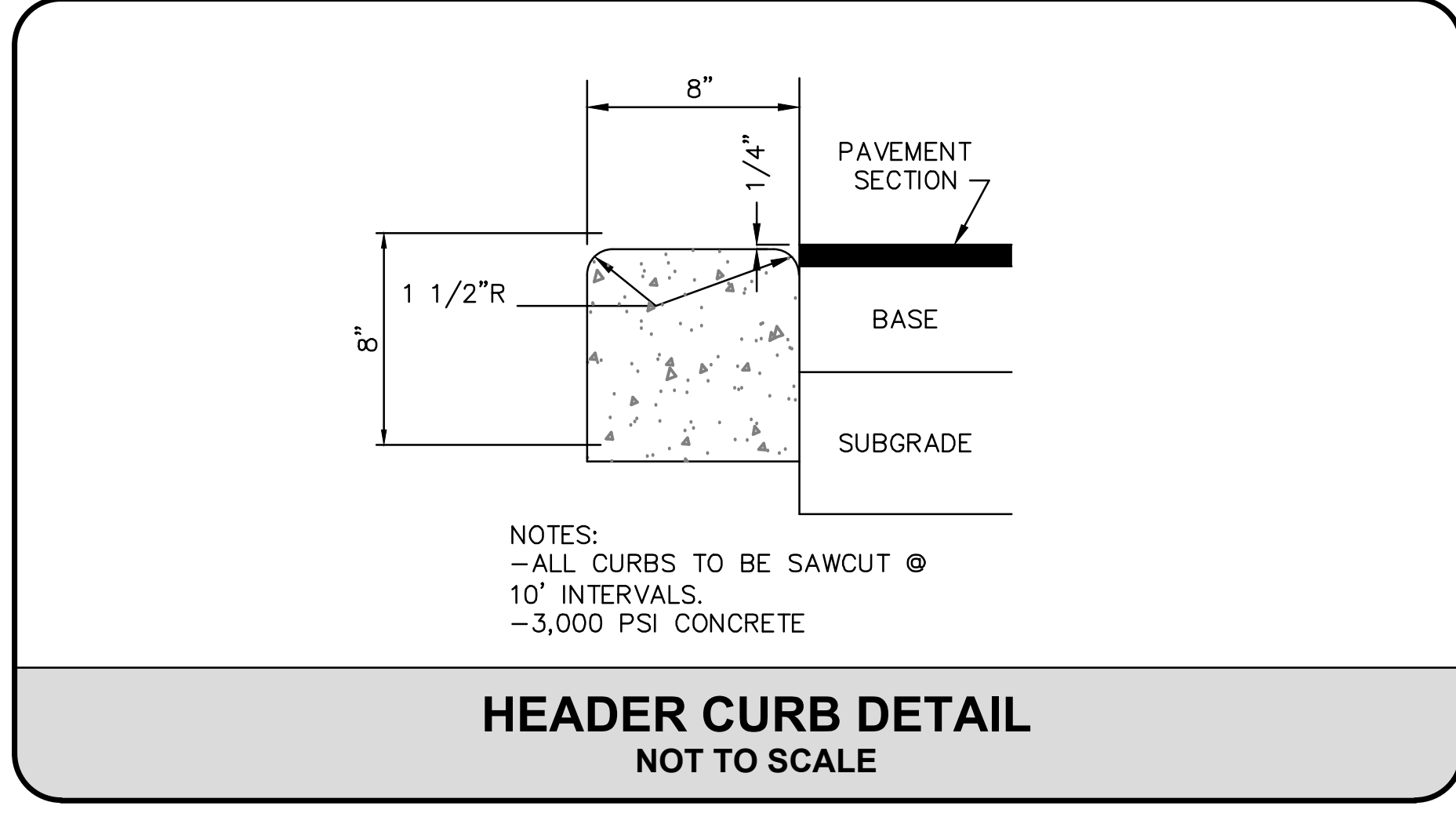
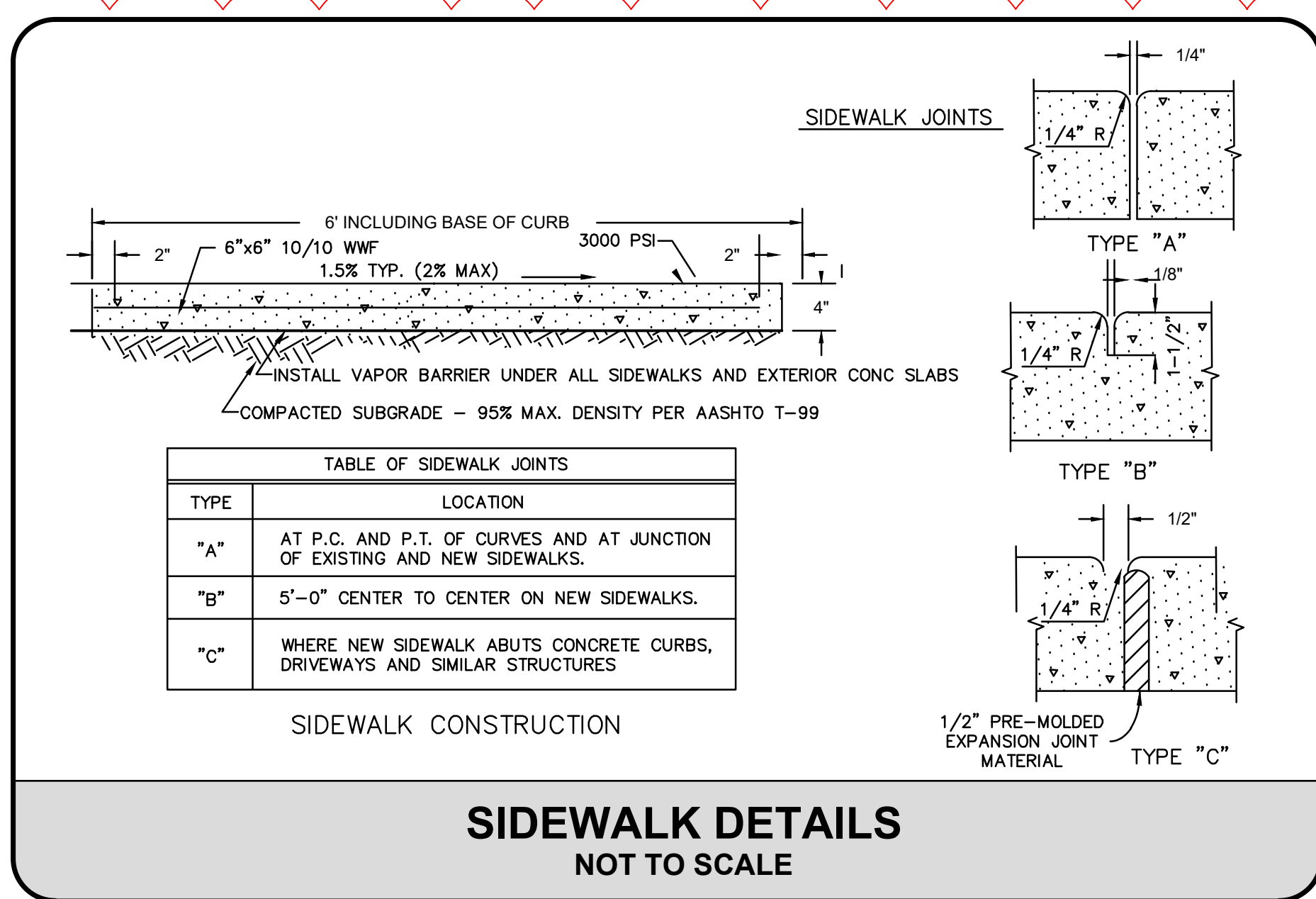
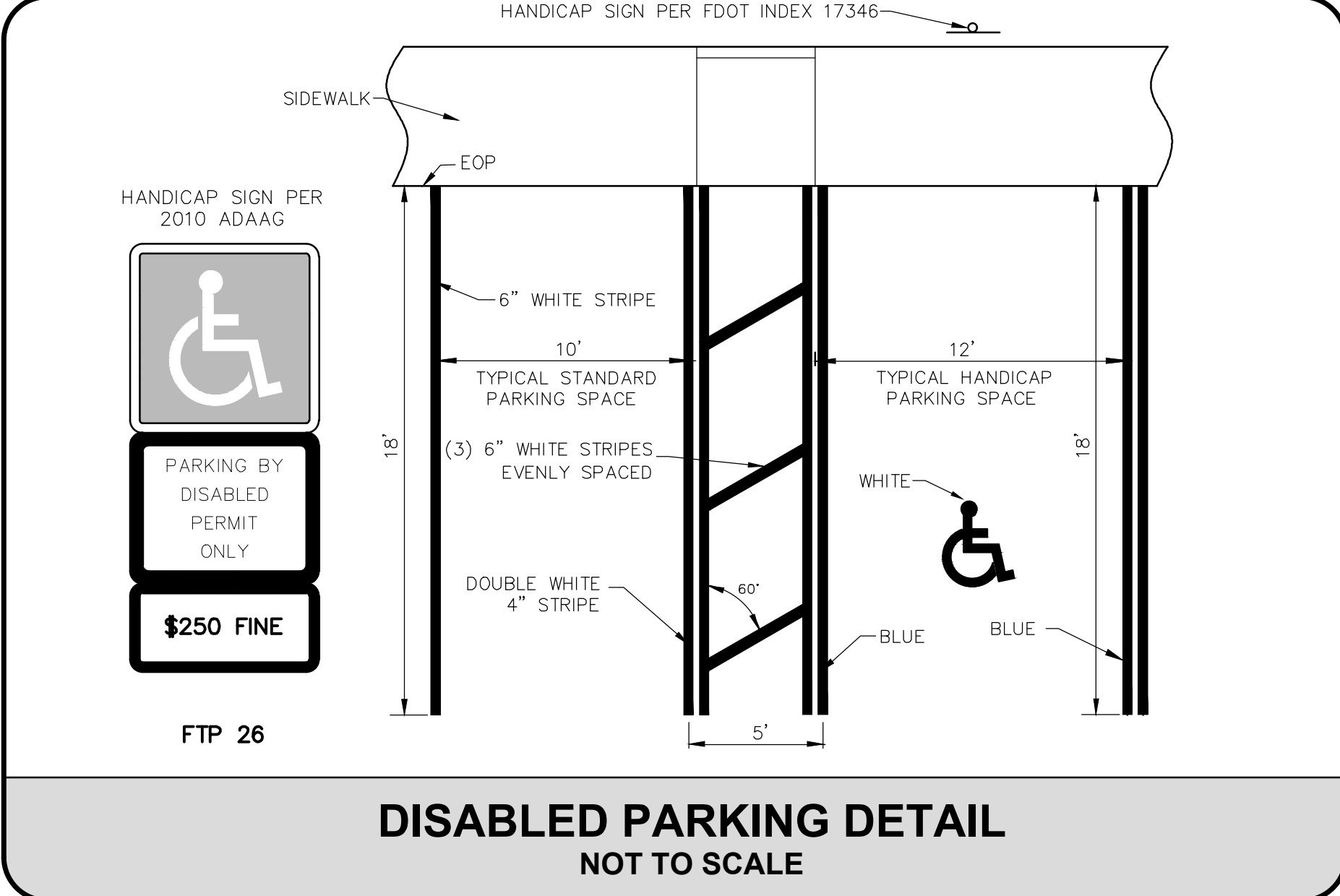
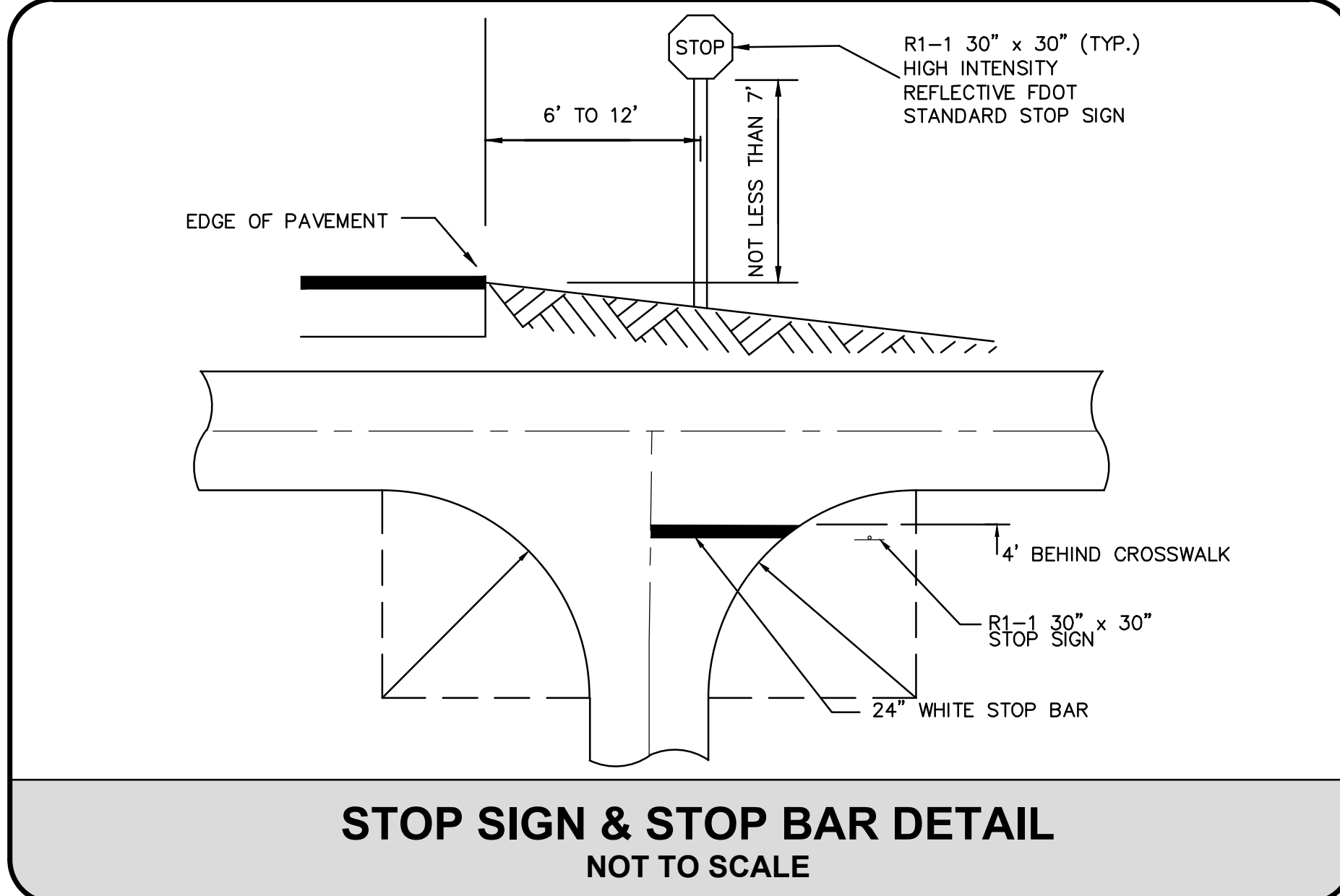
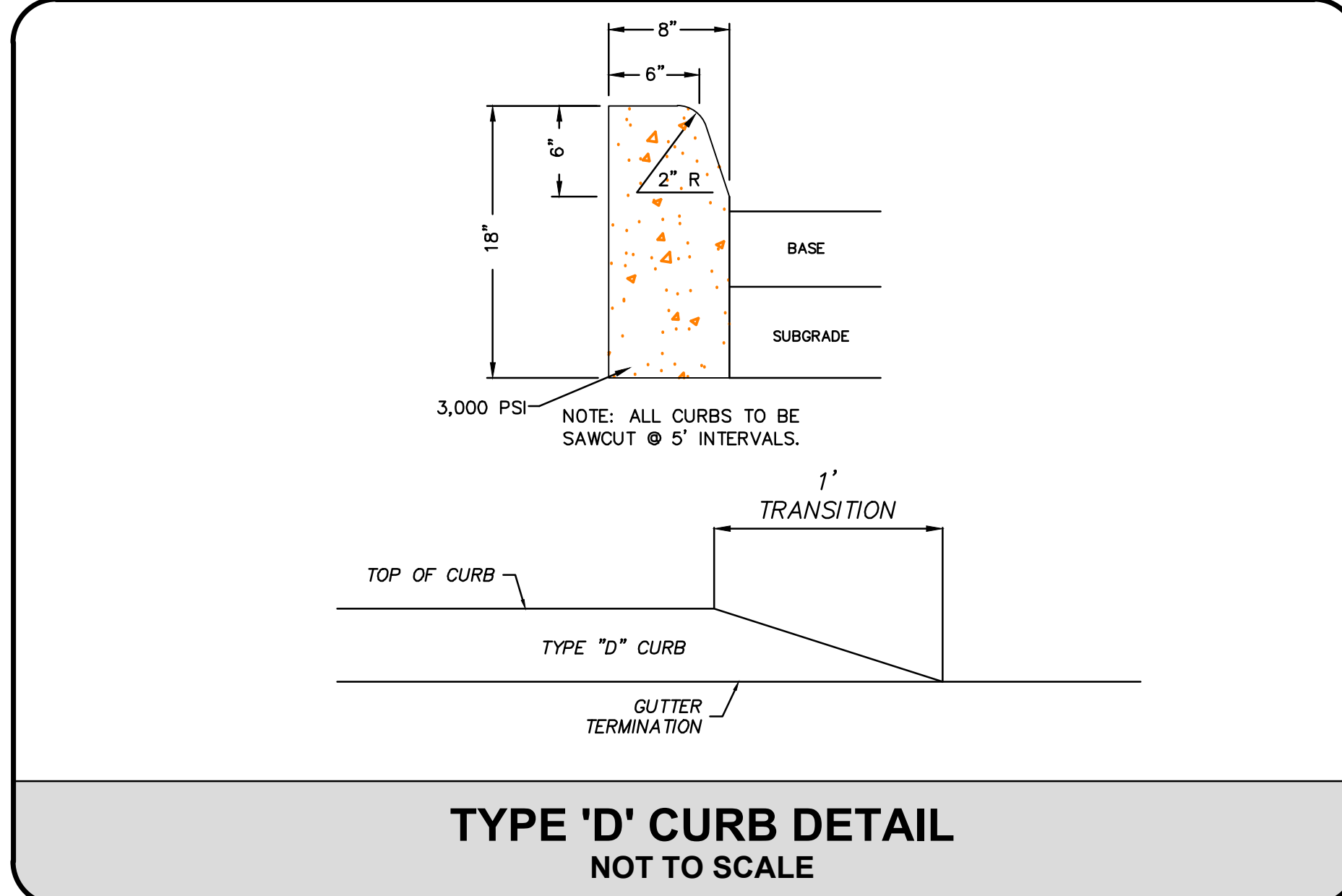
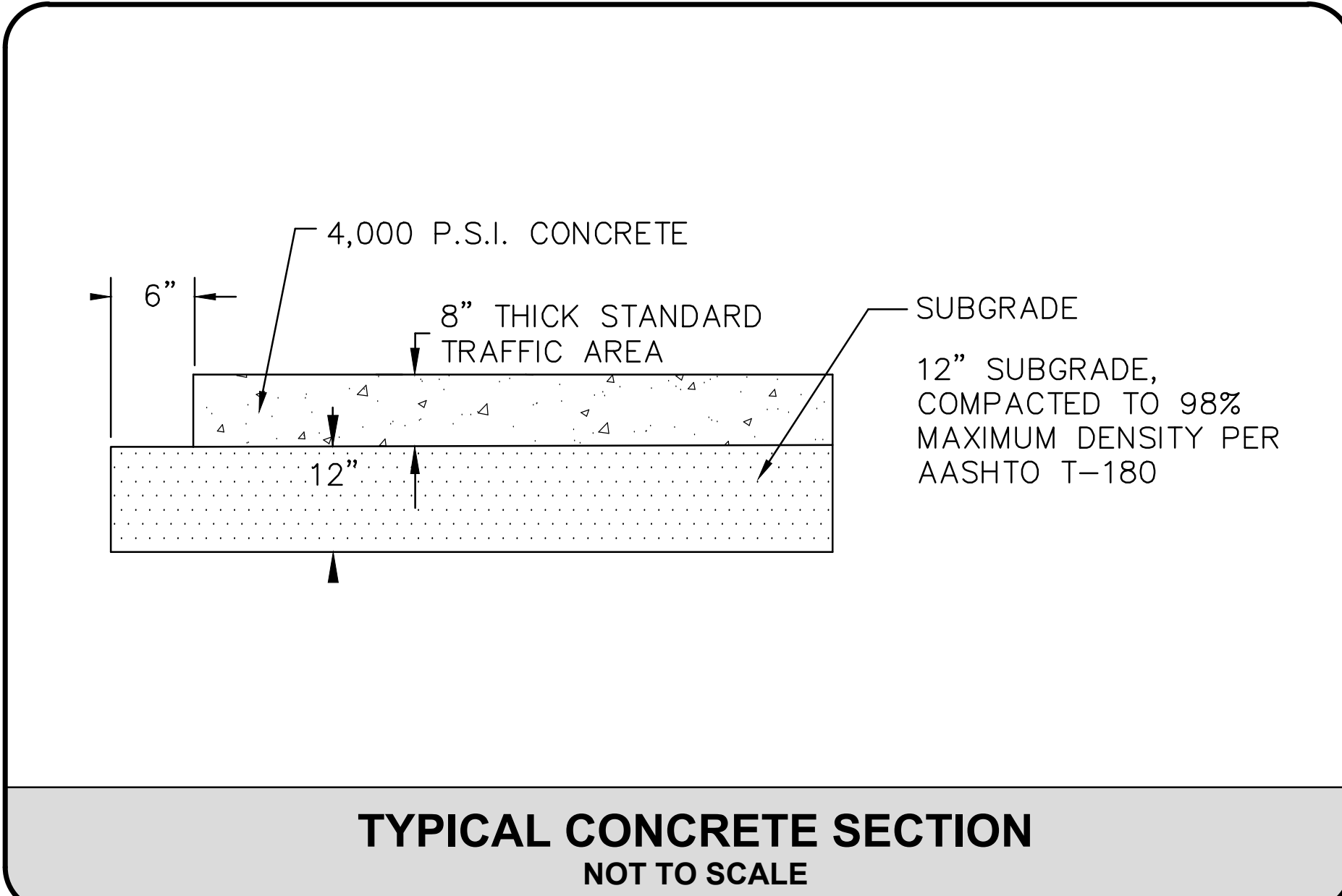
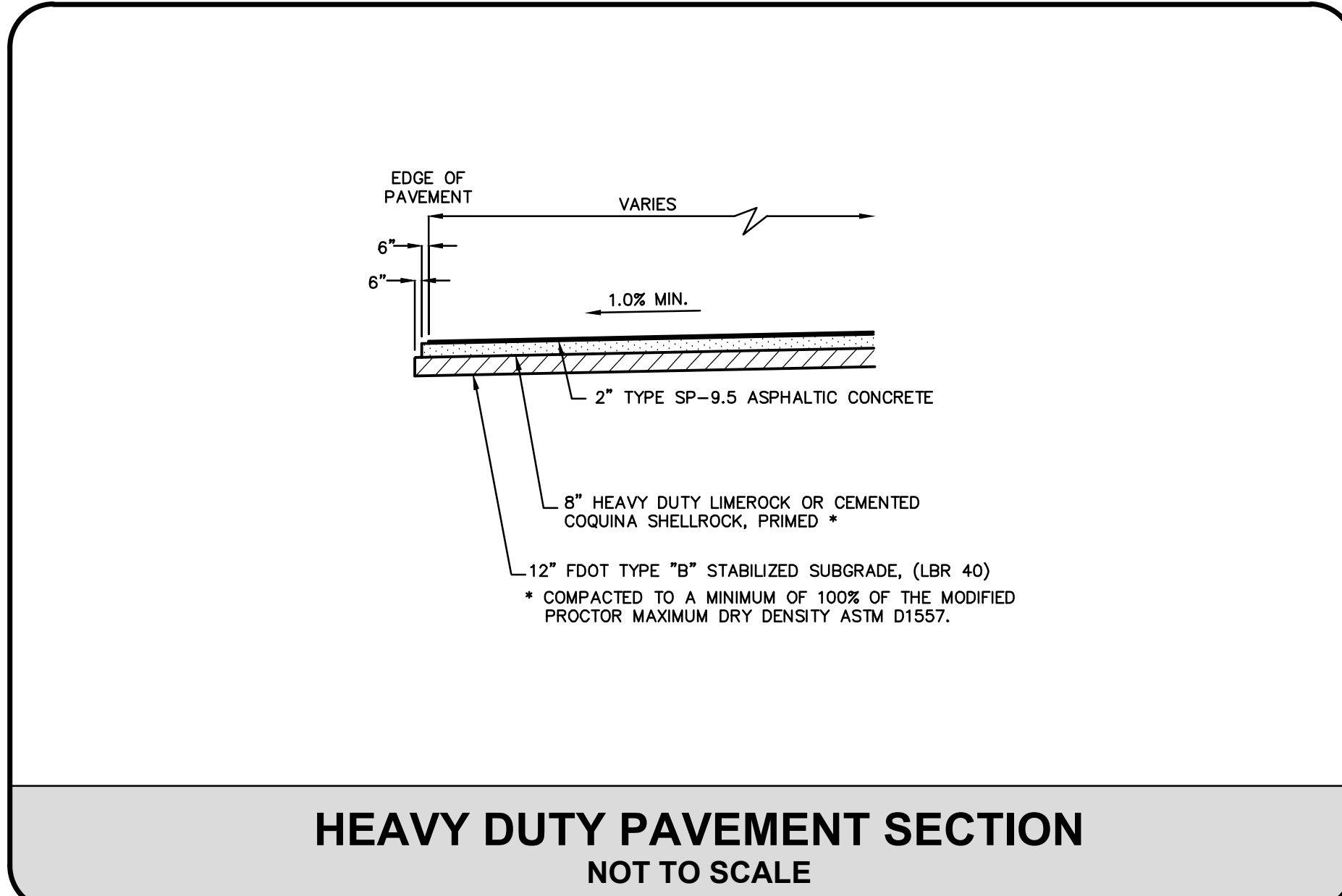
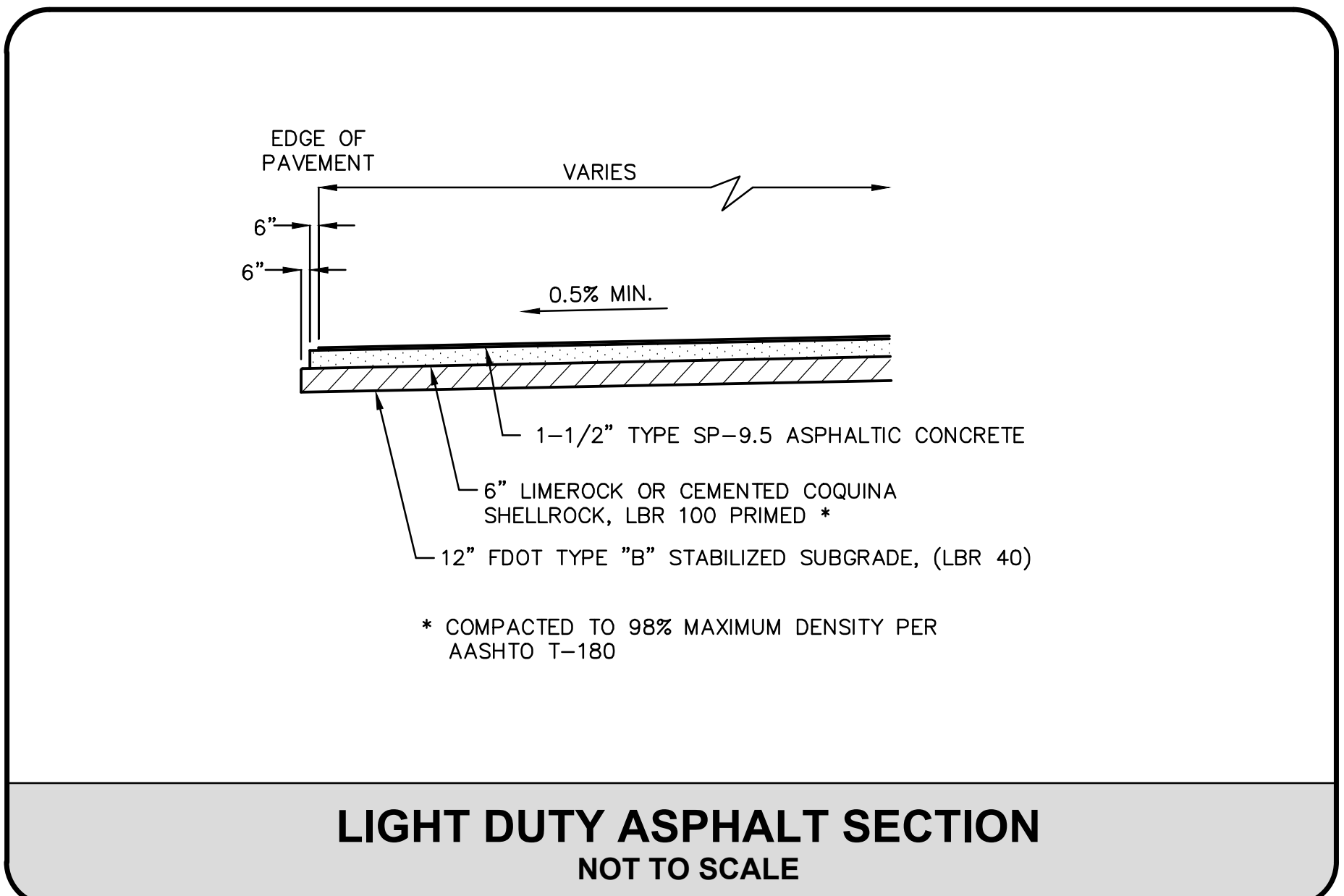
UTILITY PLAN

C403

EARLY SITE BID PACKAGE



1" = 30'
1 inch = 30 ft.



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REVISIONS		
MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23
3	ASI #2 - RFI REVISIONS	4/19/23

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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie
PUBLIC SCHOOLS

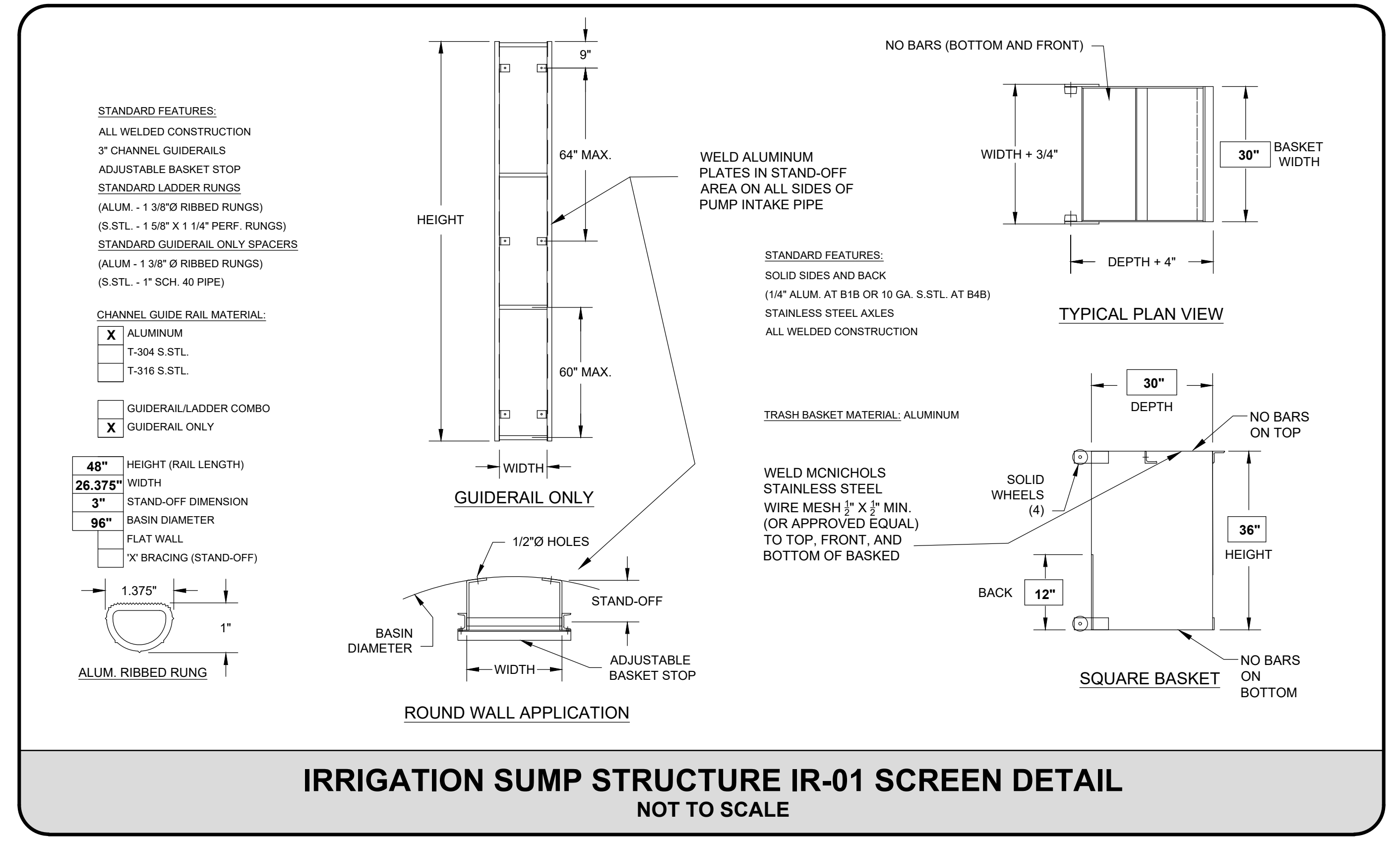
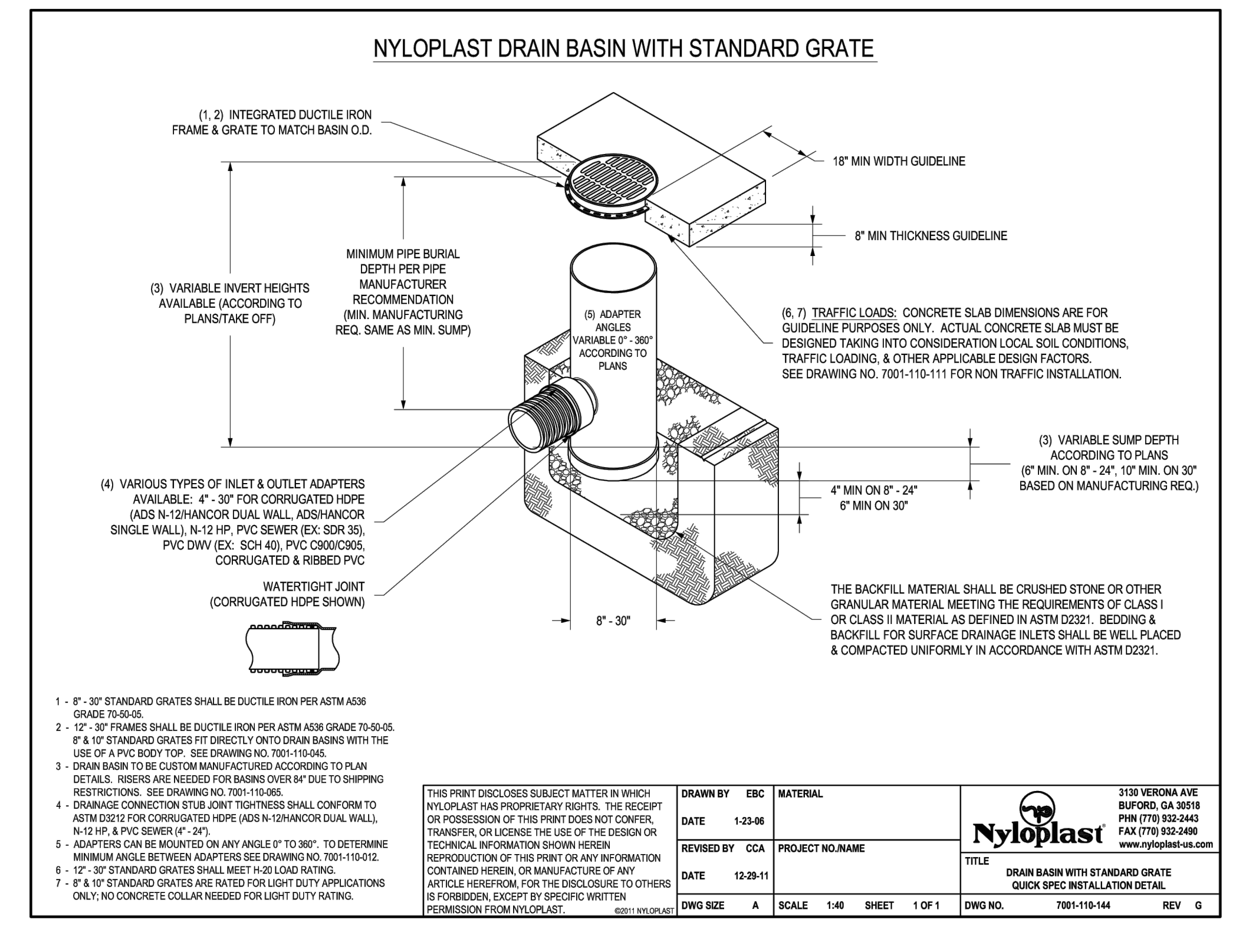
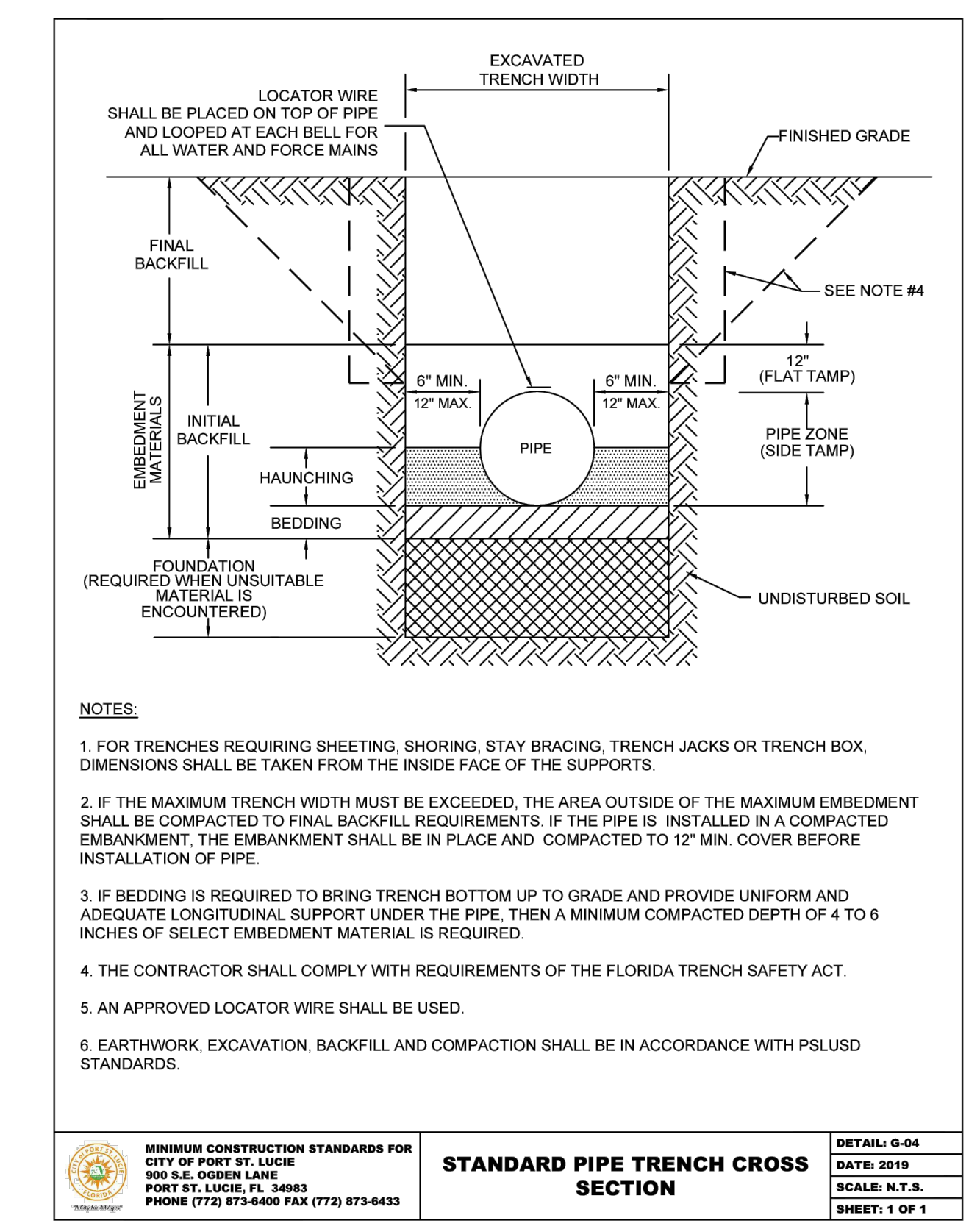
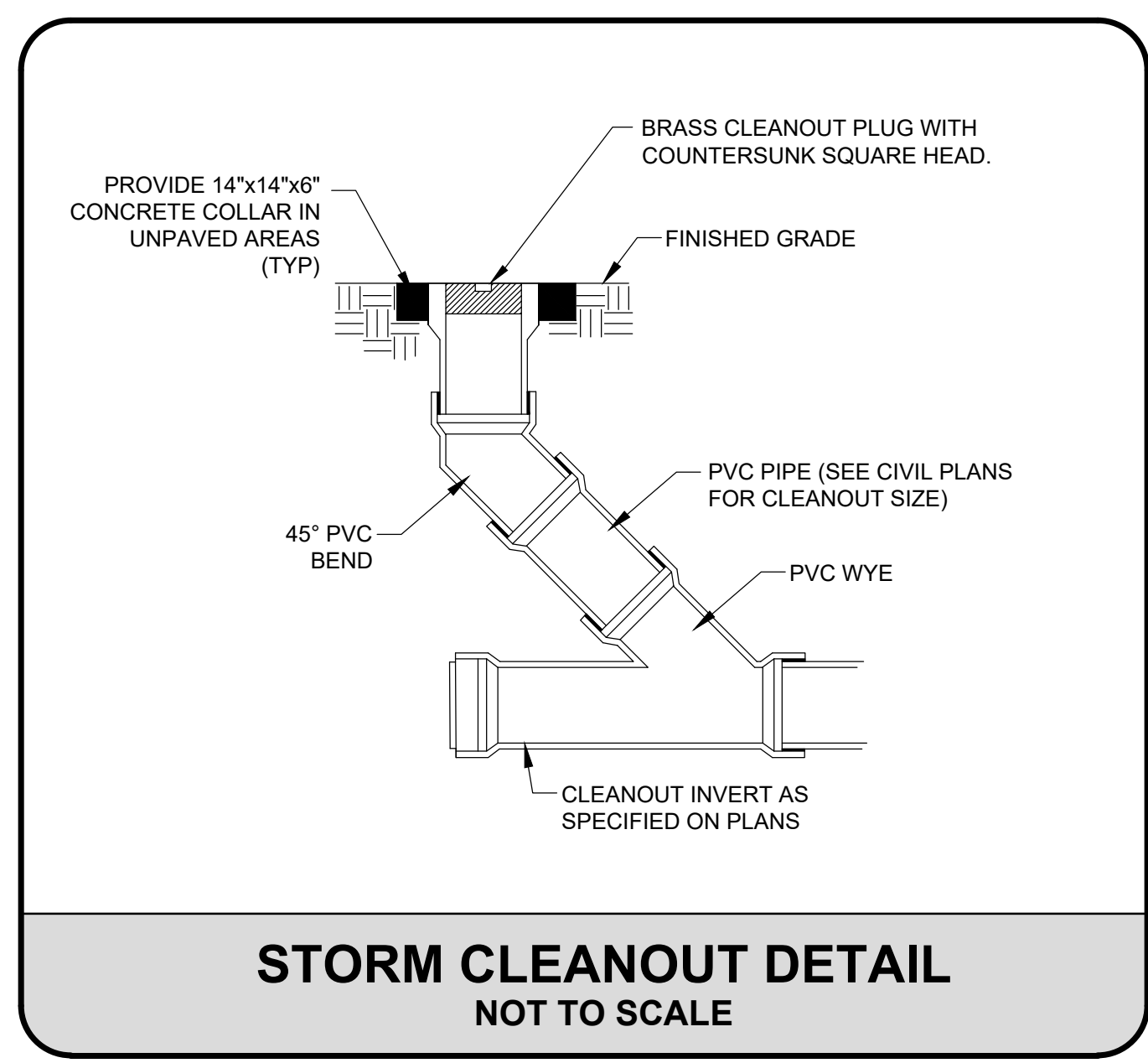
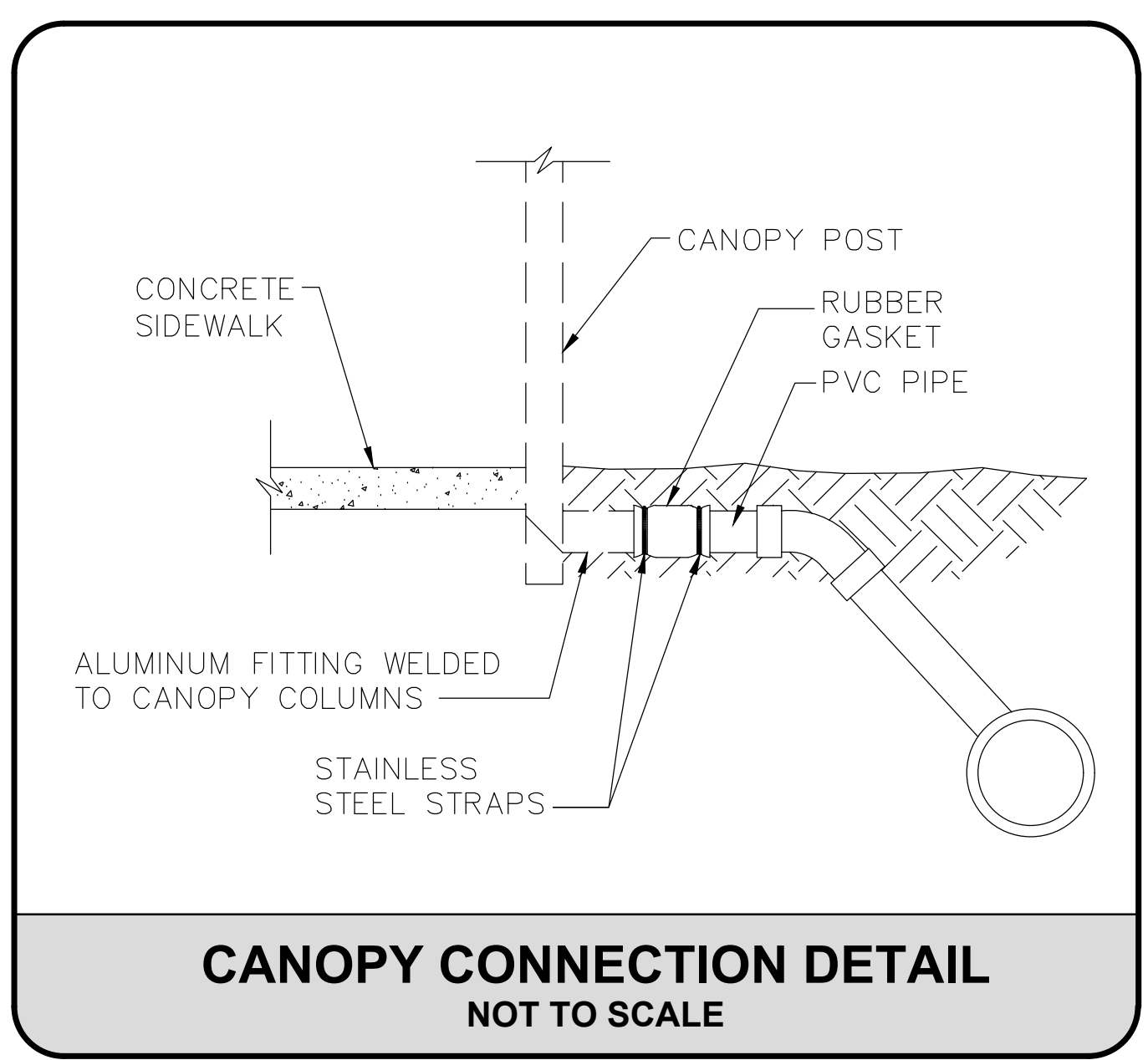
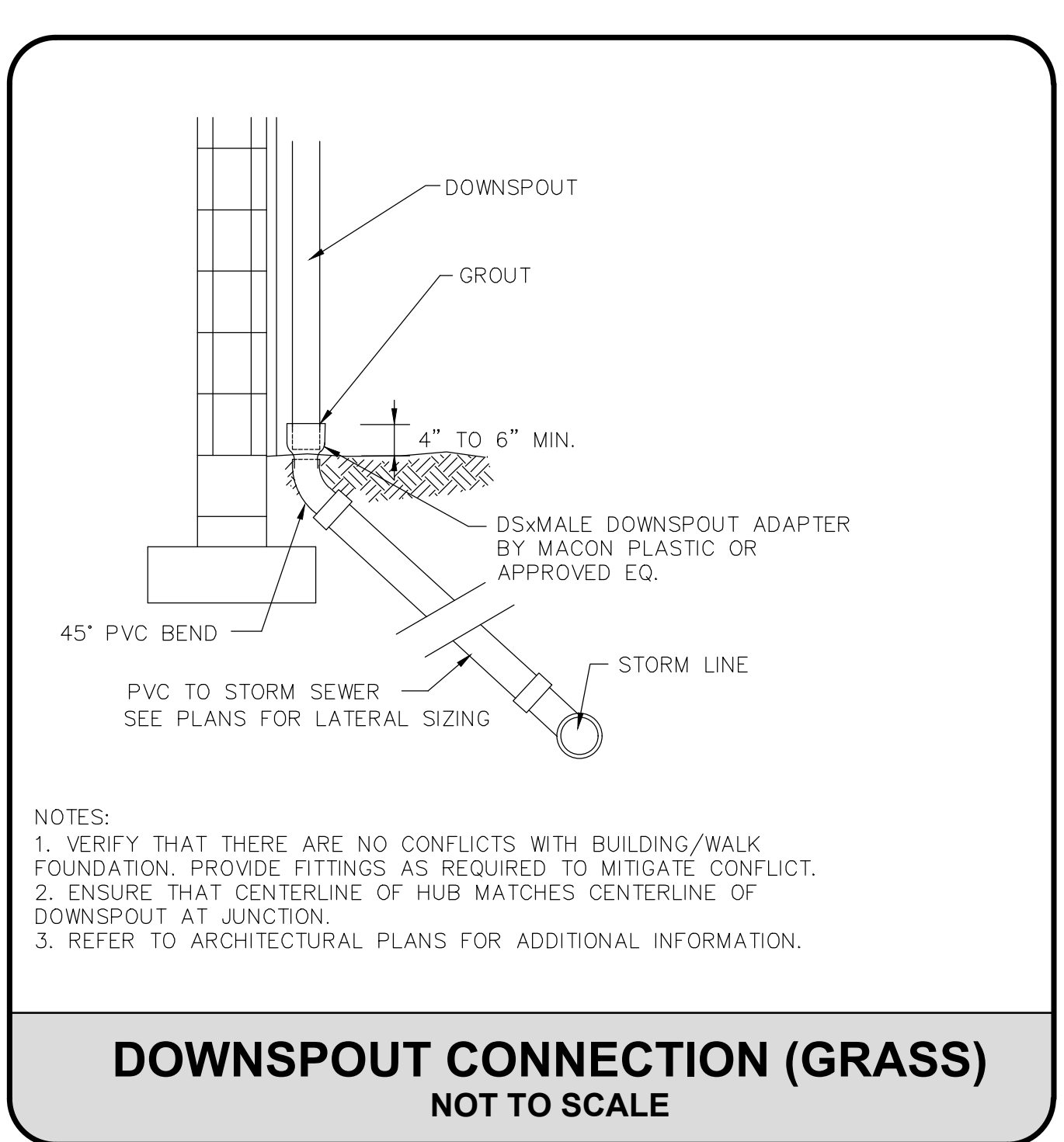
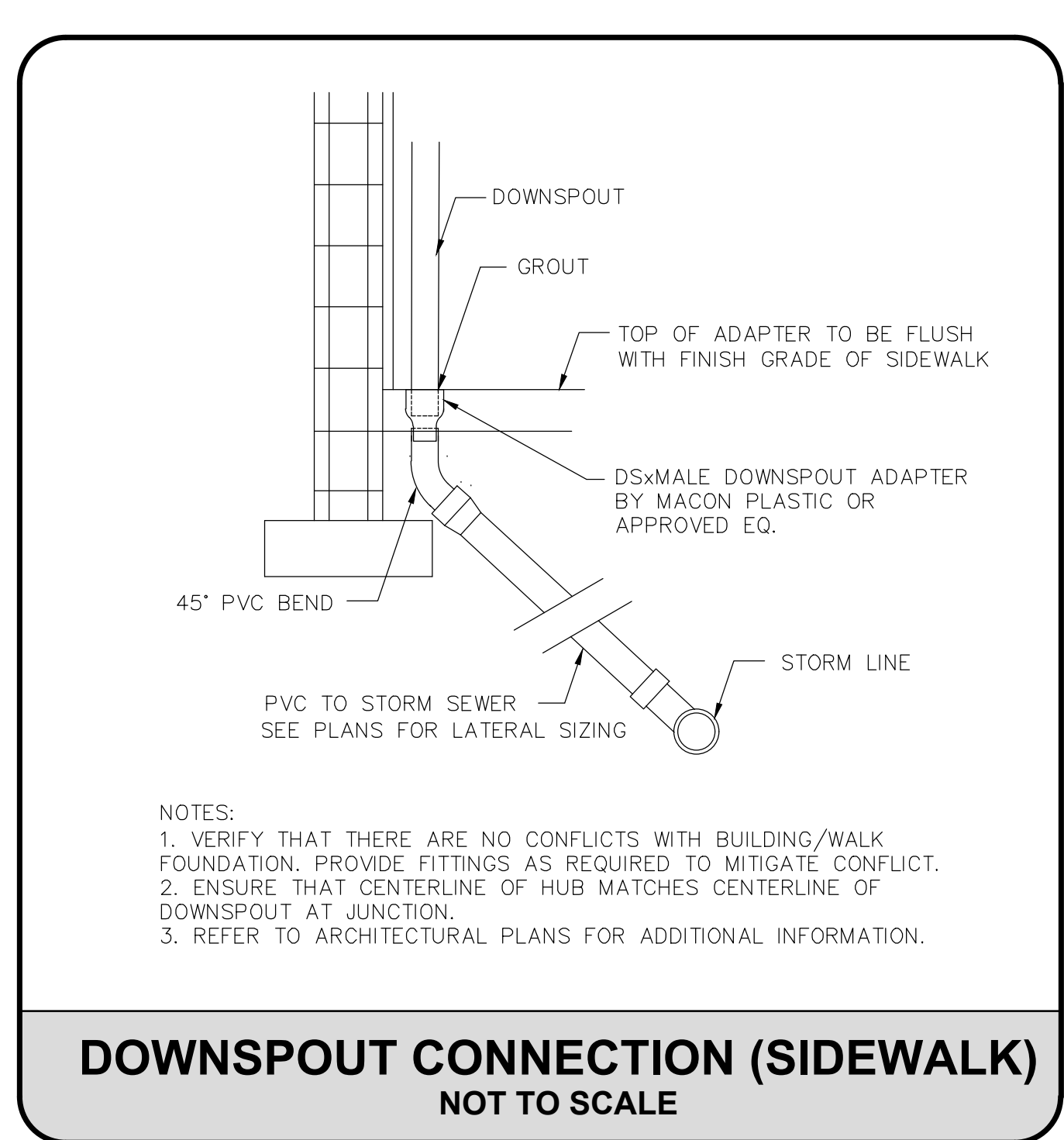
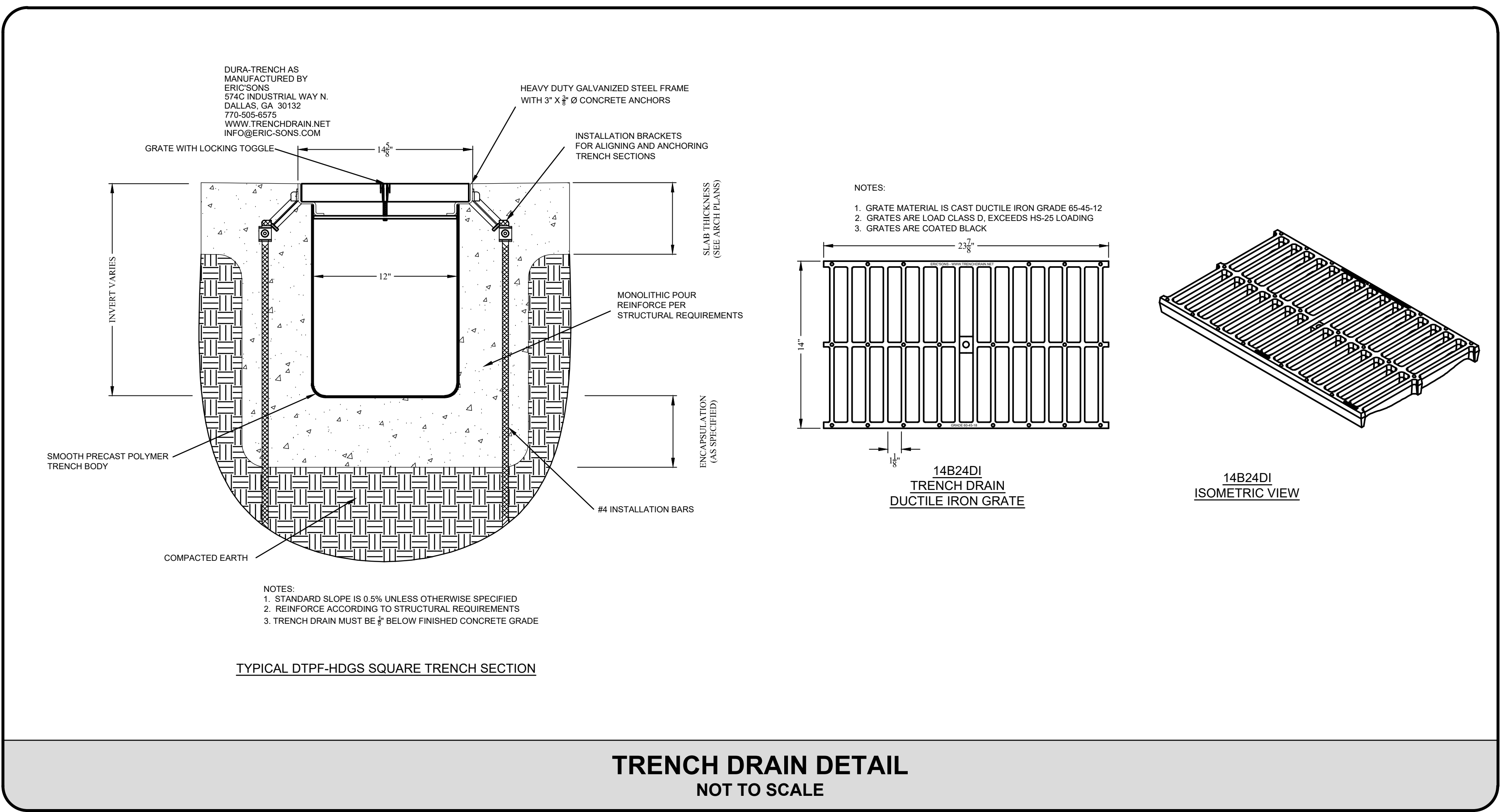
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9481 Brandwyne Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
COMM NO.: 2022107
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PAVING, GRADING, & DRAINAGE DETAILS

C500

EARLY SITE BID PACKAGE



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ST. LUCIE HIGH SCHOOL DDD

Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

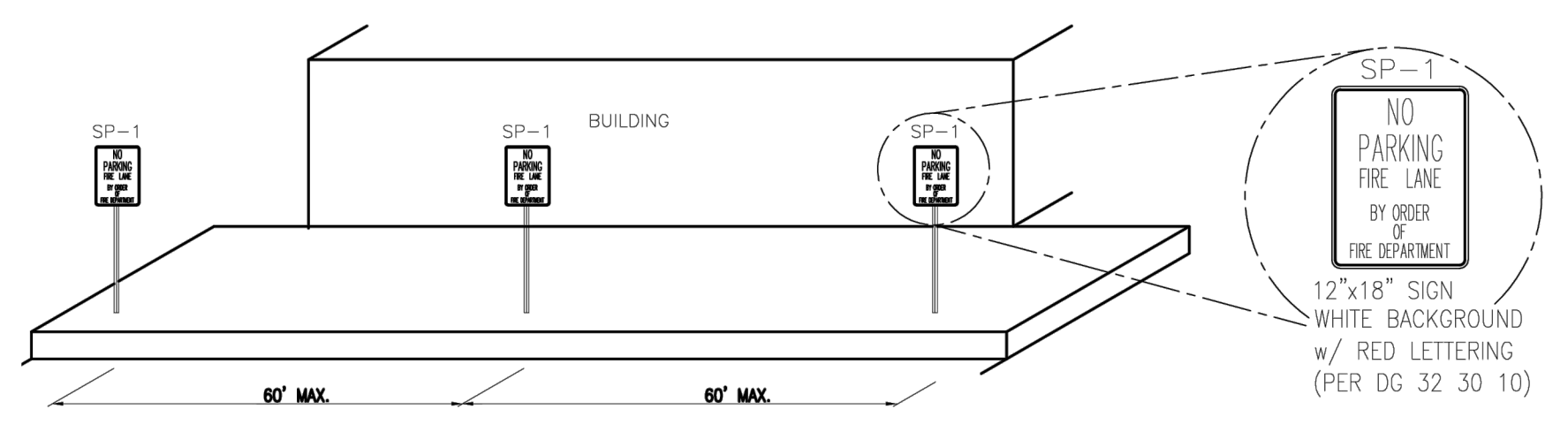
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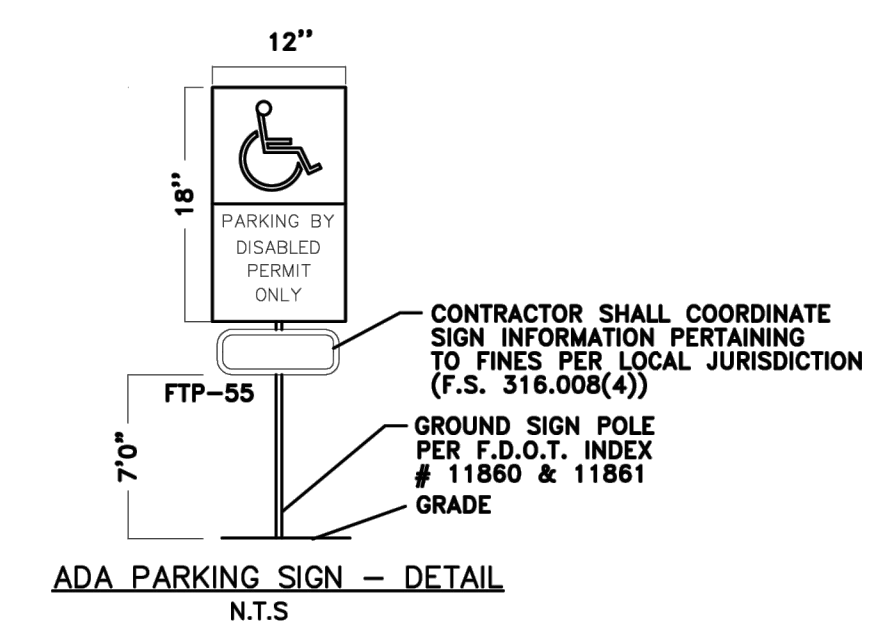
PAVING, GRADING, & DRAINAGE DETAILS

C501

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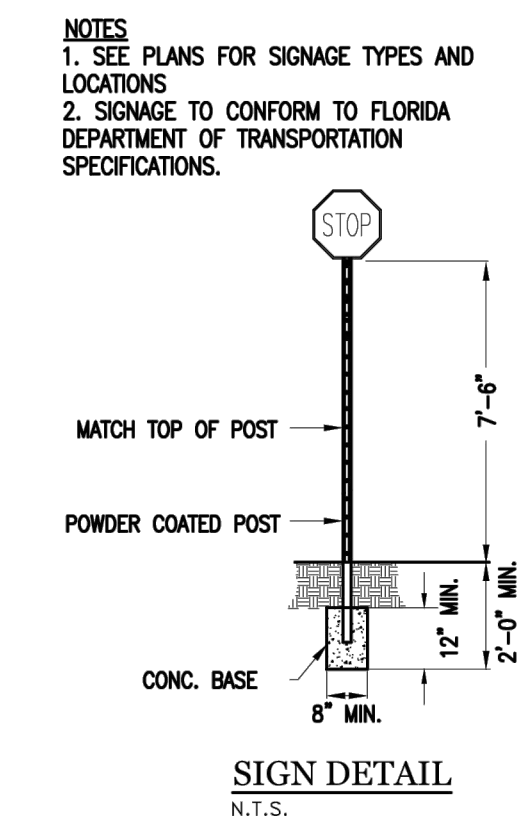


FIRE LANE DETAIL
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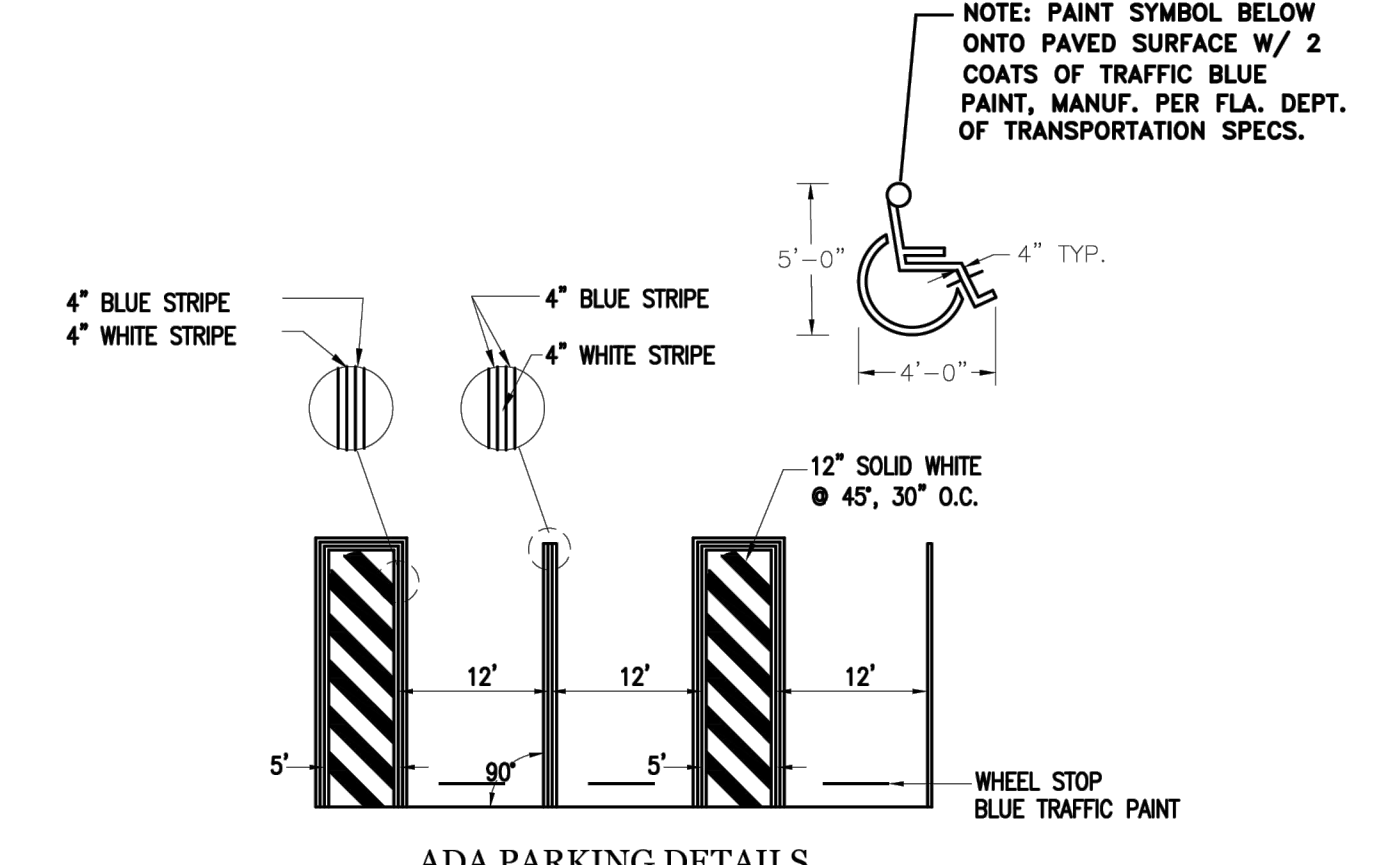


ADA PARKING SIGN - DETAIL
N.T.S.

- NOTES**
1. TOP PORTION OF FTP 25 & 26 SHALL HAVE A REFLECTIVE SYMBOL AND BORDER.
 2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
 3. FTP 25 & 26 MAY BE FABRICATED ON ONE PANEL OR TWO.
 4. FTP 25 MAY BE SUBSTITUTED FOR THE FTP 26 IN AREAS WHERE SPACE IS LIMITED.
 5. SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT.



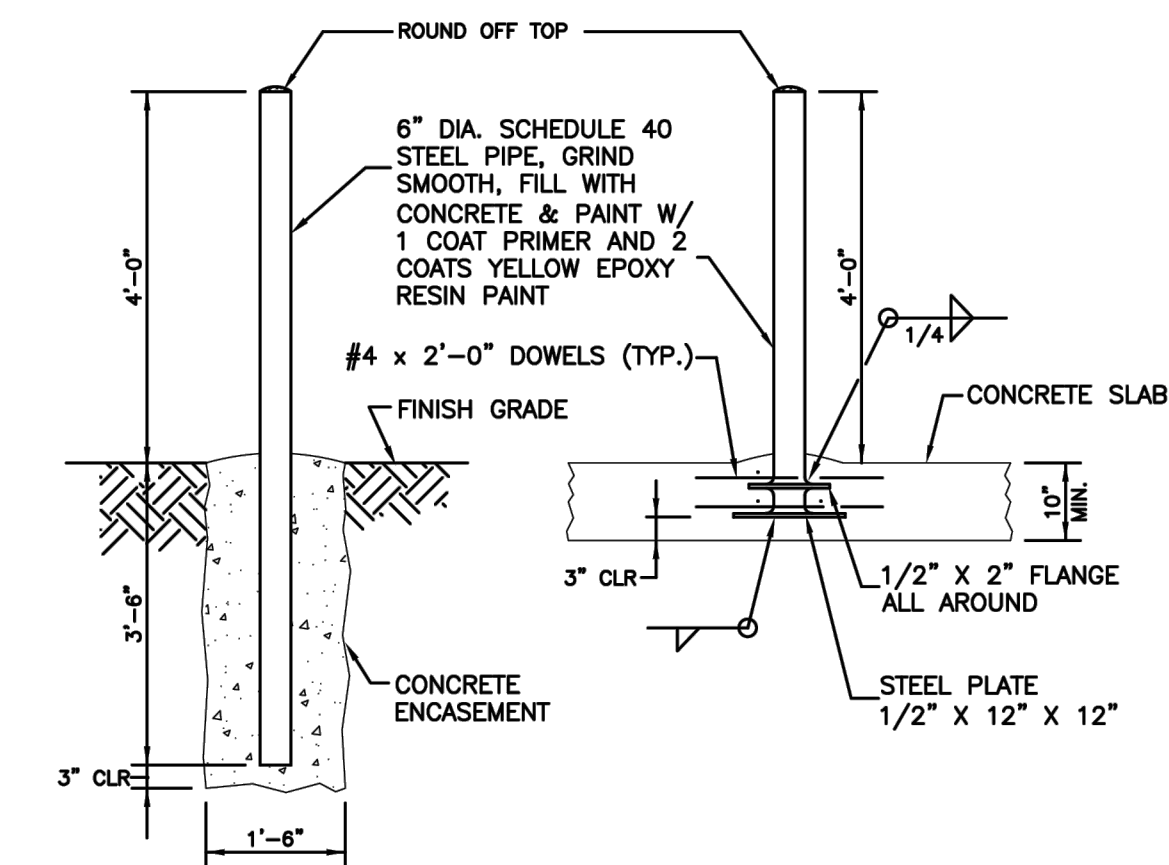
SIGN DETAIL
N.T.S.



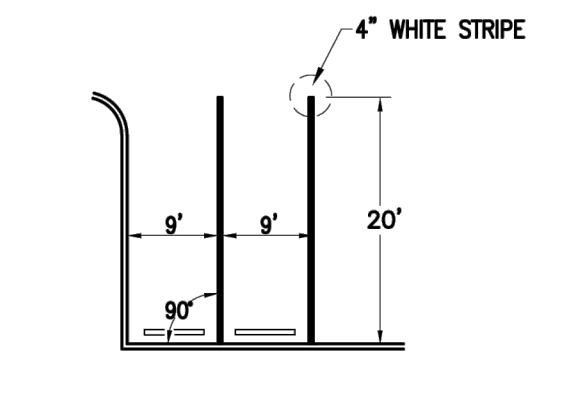
ADA PARKING DETAILS
N.T.S.



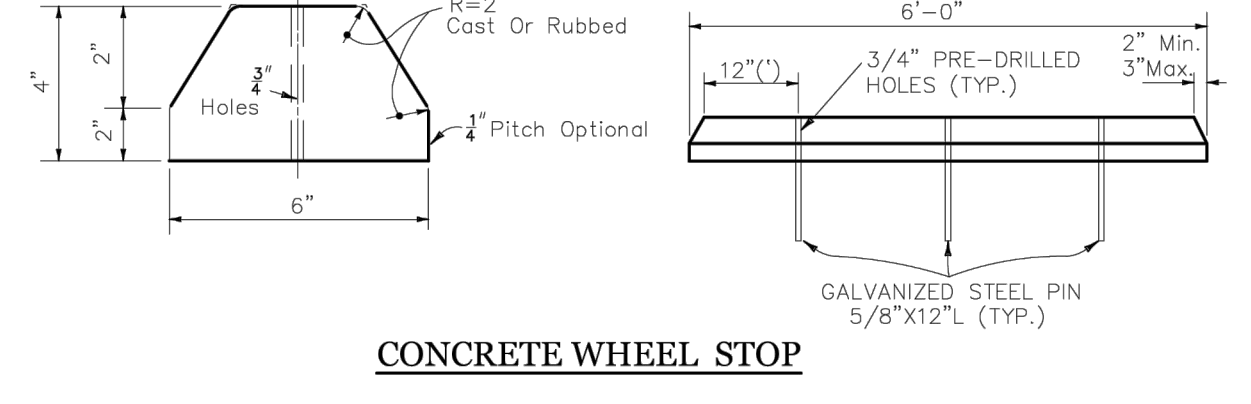
STOP SIGN & STOP BAR DETAIL
N.T.S.



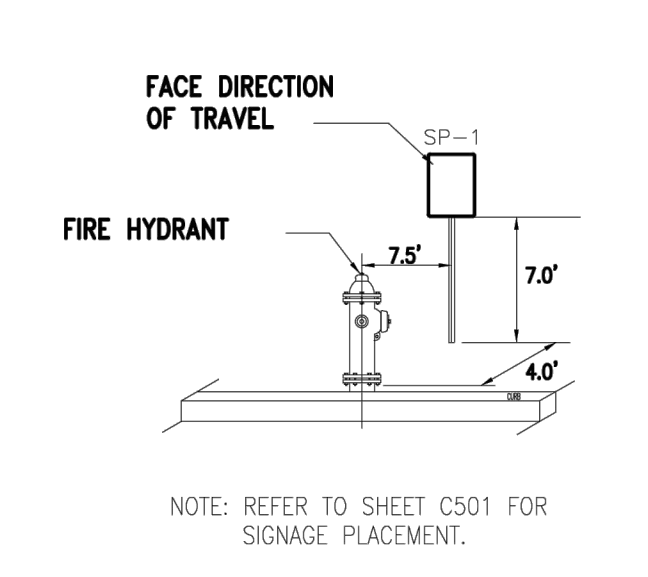
BOLLARD DETAIL
N.T.S.



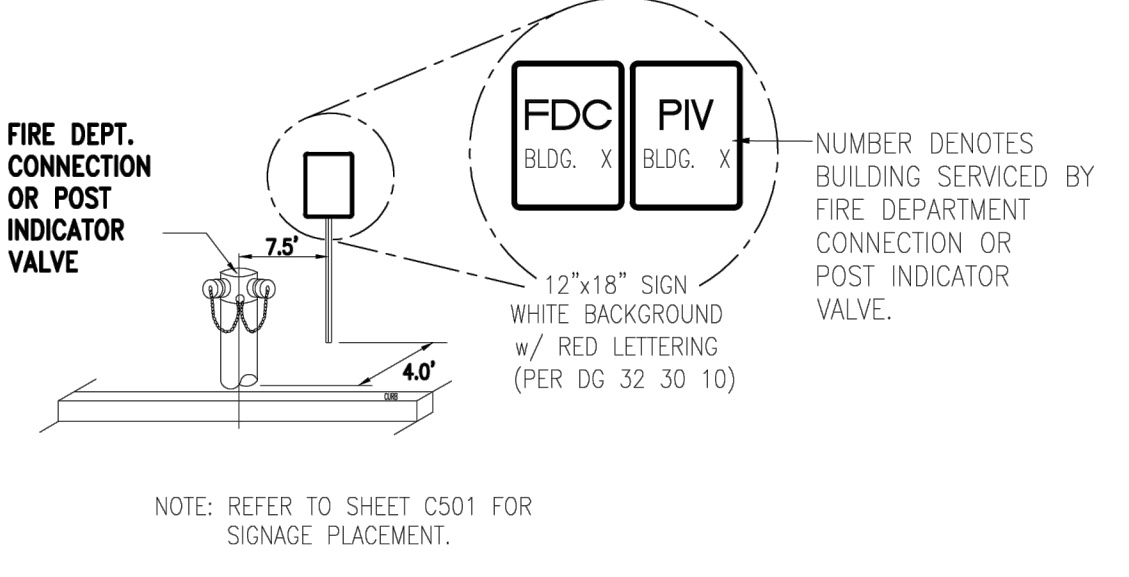
TYPICAL PARKING STALL STRIPING DETAIL
N.T.S.



CONCRETE WHEEL STOP



FIRE HYDRANT MARKING DETAIL
N.T.S.



FIRE DEPT. CONNECTION / POST INDICATOR VALVE DETAIL
N.T.S.

CURBING - A	STRIPING - B
<p>(A01) FOOT TYPE D CURB, REFER TO DETAIL ON SHEET C001.</p> <p>(A02) FOOT TYPE T CURB AND GUTTER, REFER TO DETAIL ON SHEET C001.</p> <p>(A03) 12"x8" BARRON CURB, REFER TO DETAIL ON SHEET C001.</p> <p>(A04) FOOT DROP CURB, REFER TO DETAIL ON SHEET C001.</p> <p>(A05) FOOT VALLEY GUTTER, REFER TO DETAIL ON SHEET C001.</p> <p>(A06) FOOT CURB TRANSITION, REFER TO FOOT INDEX #304.</p> <p>(A07) FOOT SIDEWALK CURB, REFER TO FOOT INDEX #304.</p>	<p>(B01) 4" SOLID WHITE STRIPE - TRAFFIC PAINT.</p> <p>(B02) 6" SOLID WHITE STRIPE - TRAFFIC PAINT.</p> <p>(B03) 10" SOLID WHITE STRIPE, 10' SEP - TRAFFIC PAINT.</p> <p>(B04) "NO PARKING" W/12" CHEVRON @45°, 10' D.C. W/YELLOW TRAFFIC PAINT.</p> <p>(B05) 6" SOLID, DOUBLE YELLOW STRIPE - TRAFFIC PAINT.</p> <p>(B06) 6" SOLID YELLOW STRIPE W/ 18" CHEVRONS @ 45°, 10' D.C. - TRAFFIC PAINT.</p> <p>(B07) 24" STOP BAR, PAINTED ONSITE - THERMOPLASTIC OFFSITE.</p> <p>(B08) DIRECTIONAL ARROW AND/OR PAVEMENT MESSAGE REFER TO FOOT DETAILS.</p> <p>(B09) CROSSWALK, PAINTED ONSITE - THERMOPLASTIC OFFSITE, REFER TO FOOT INDEX #1346.</p> <p>(B10) 6" RAMP, 20" FLUSH LOADING ZONE W/ 4" SOLID YELLOW TRAFFIC PAINT BORDER AND 12" SOLID YELLOW STRIPE @ 45°, 5' O.C. (TYP.)</p> <p>(B11) HANDICAP PARKING STRIPING AND SIGNAGE, REFER TO DETAIL ON SHEET C000.</p> <p>(B12) 6" SOLID YELLOW, 10' STRIPE, 10' SKIP - TRAFFIC PAINT.</p>
SIGNAGE - C	FENCING - D
<p>(C01) NO PARKING FIRE LANE (SP-1). (SEE DETAIL ON SHEET C000).</p> <p>(C02) FIRE DEPARTMENT CONNECTION(FDC) / POST INDICATOR VALVE(PIV) BUILDING NUMBER BEING SERVED SIGN (SP-2).</p> <p>(C03) FOOT "DO NOT ENTER" SIGN (RS-1).</p> <p>(C04) FOOT "LEFT TURN ONLY" SIGN.</p> <p>(C05) FOOT "RIGHT TURN ONLY" SIGN.</p> <p>(C06) FOOT "STOP" SIGN (R1-1, 30"x30").</p> <p>(C07) BUS VEHICLE ONLY SIGNAGE (SP-3A). (SEE DETAIL THIS SHEET).</p> <p>(C08) BUS DROP-OFF SIGNAGE (SP-3C). (SEE DETAIL THIS SHEET).</p> <p>(C09) SERVICE VEHICLE ONLY SIGNAGE (SP-3B). (SEE DETAIL THIS SHEET).</p> <p>(C10) STUDENT DROP-OFF SIGNAGE (SP-3D). (SEE DETAIL THIS SHEET).</p> <p>(C11) "NOTICE TO ALL VISITORS" SIGN (SEE DETAIL THIS SHEET).</p> <p>(C12) SCHOOL SIGN, REFER TO ARCHITECTURAL PLAN FOR DETAILS.</p> <p>(C13) RECLAIMED WOOD SIGNAGE, REFER TO SHEET C003 FOR DETAILS.</p>	<p>(D01) 6" HIGH BLACK VINYL COATED CHAIN LINK FENCE.</p> <p>(D02) 4" HIGH, BLACK VINYL COATED CHAIN LINK FENCE.</p> <p>(D03) 24" WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE.</p> <p>(D04) 30" WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE.</p> <p>(D05) 10" BLACK VINYL COATED CHAIN LINK GATE.</p> <p>(D06) 5" BLACK VINYL COATED CHAIN LINK GATE.</p> <p>(D07) 6" WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE.</p> <p>(D08) 8" WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE.</p> <p>(D09) 4" HIGH, 5" WIDE, BLACK VINYL COATED CHAIN LINK GATE.</p> <p>(D10) 12" WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE.</p> <p>(D11) 4" WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE.</p>
SITE - E	
<p>(E01) 6" THICK CONCRETE.</p> <p>(E02) BOLLARD, REFER TO DETAIL ON SHEETS C000.</p> <p>(E03) BIKE RACK, REFER TO ARCHITECTURAL PLANS FOR DETAILS.</p> <p>(E04) RASSED CONCRETE WALK, REFER TO DETAIL ON SHEET C001.</p> <p>(E05) FLUSH CONCRETE WALK, REFER TO DETAIL ON SHEET C001.</p> <p>(E06) RAMP W/ DETECTABLE WARNING SURFACE, REFER TO FOOT DETAIL (TYP.).</p> <p>(E07) 6" CONCRETE WHEEL STOP, REFER TO DETAIL ON SHEET C000.</p> <p>(E08) REFER TO SHEET C001 FOR ASPHALT PLAY COURT SECTION.</p> <p>(E09) DUMPSTER PAD, REFER TO SLAB DETAIL ON SHEET C001. REFER TO ARCHITECTURAL PLANS FOR ENCLOSURE DETAILS.</p> <p>(E10) FLAG POLE, REFER TO DETAIL ON ARCHITECTURAL PLANS.</p> <p>(E11) EMERGENCY ACCESS MARKER, REFER TO DETAIL ON SHEET C001.</p> <p>(E12) REFLECTIVE PAVEMENT MARKERS (SEE DETAIL THIS SHEET).</p>	

FOOT REDUCED SPEED ZONE SIGNAGE
REFER TO FOOT INDEX #17344, 3

BAR GATE DETAIL

SPECIAL SIGNAGE LEGEND:

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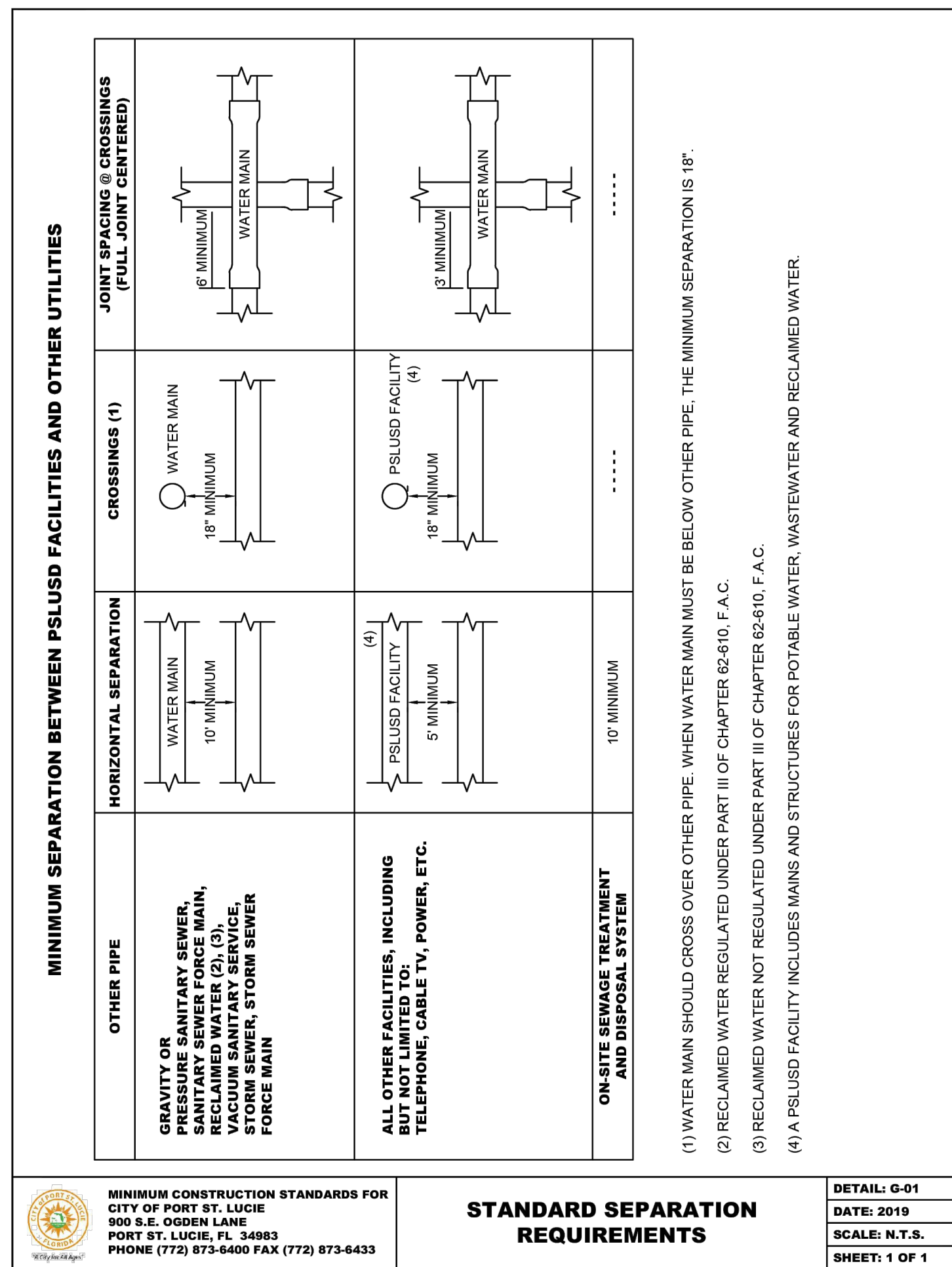
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PAVING, GRADING, &
DRAINAGE DETAILS

C502

EARLY SITE BID PACKAGE

C502 PAVING, GRADING, & DRAINAGE DETAILS

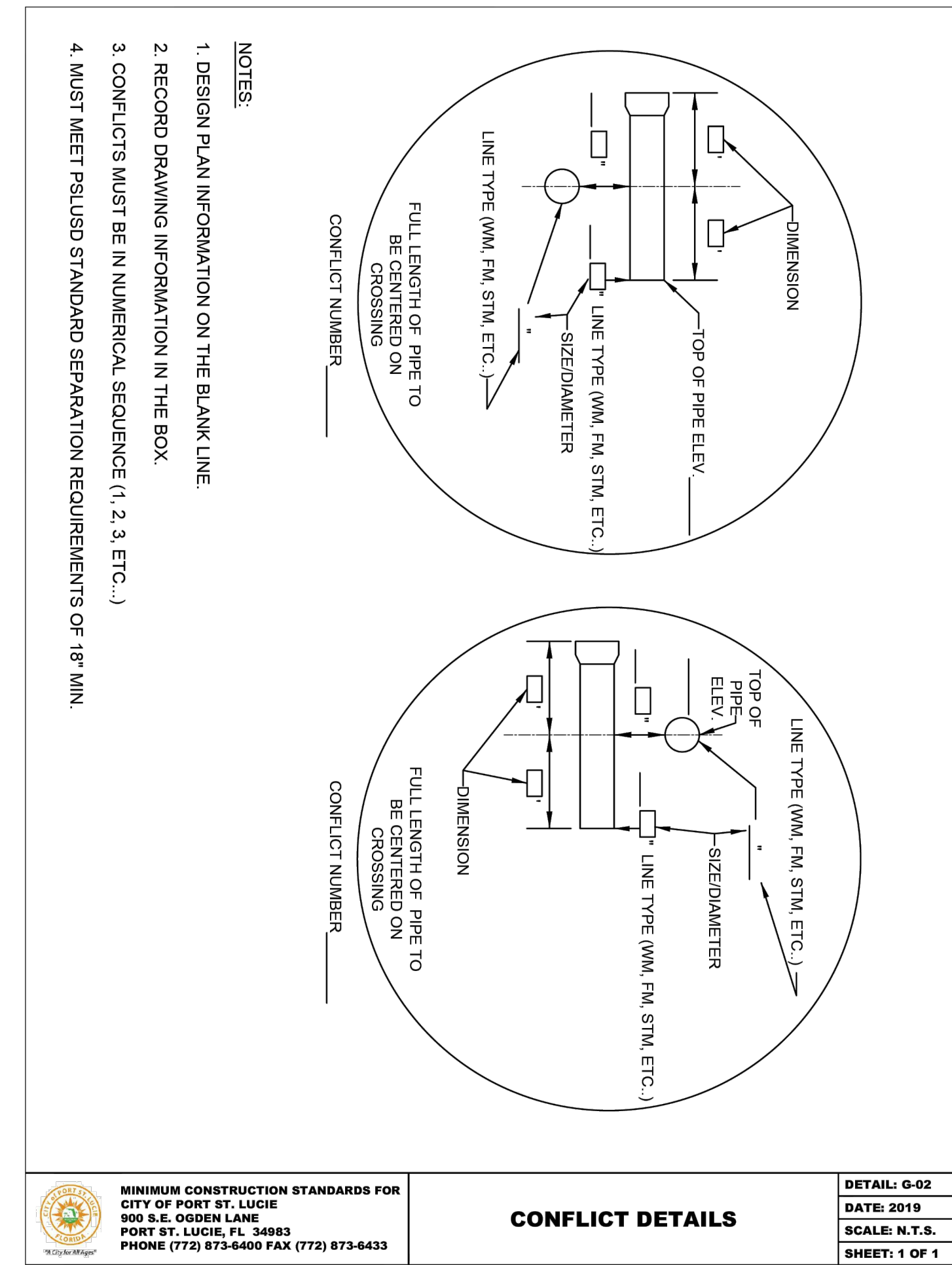


MINIMUM SEPARATION BETWEEN PSLUD FACILITIES AND OTHER UTILITIES

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

STANDARD SEPARATION REQUIREMENTS

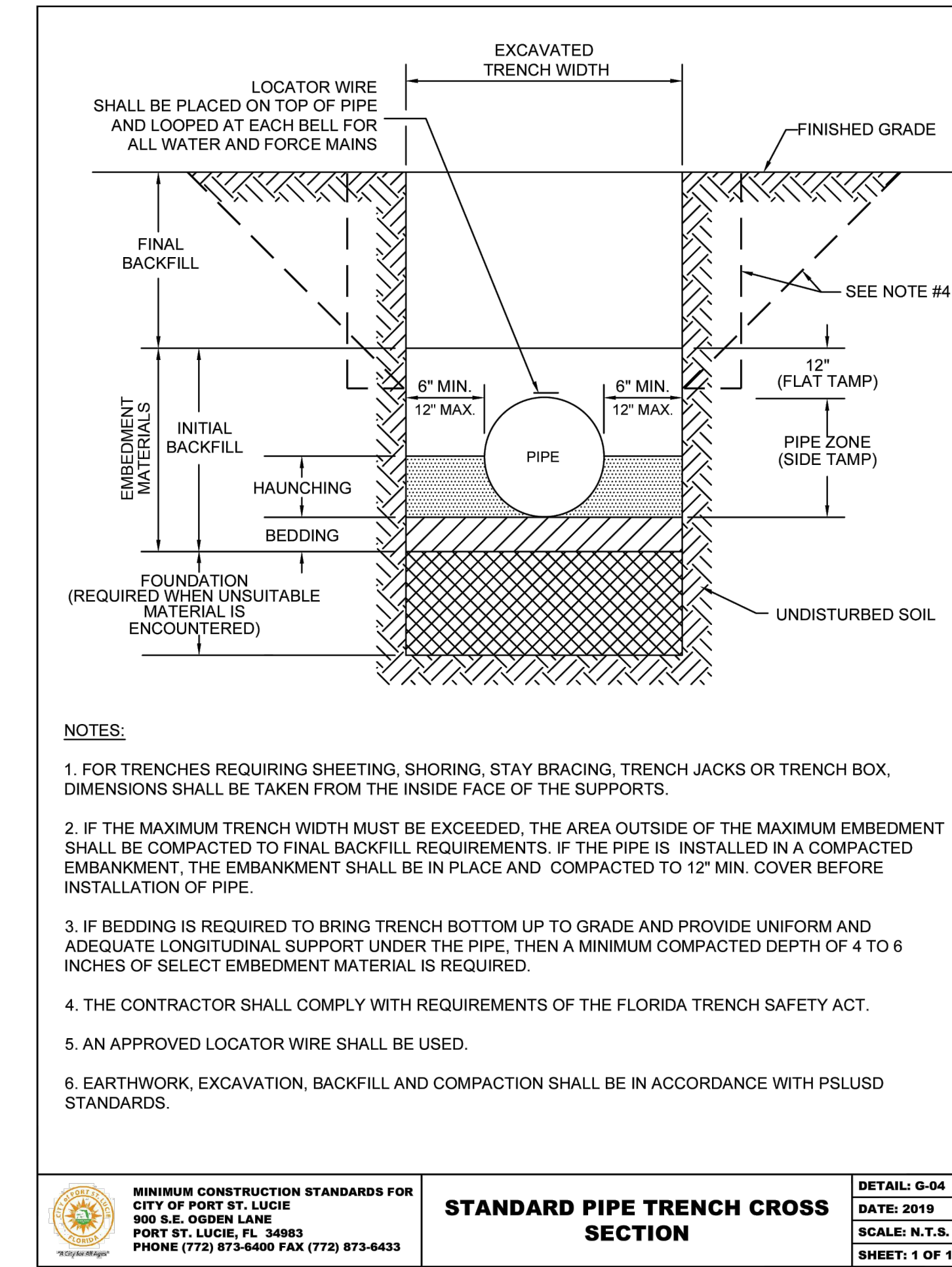
DETAIL: G-01
DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1



CONFLICT DETAILS

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

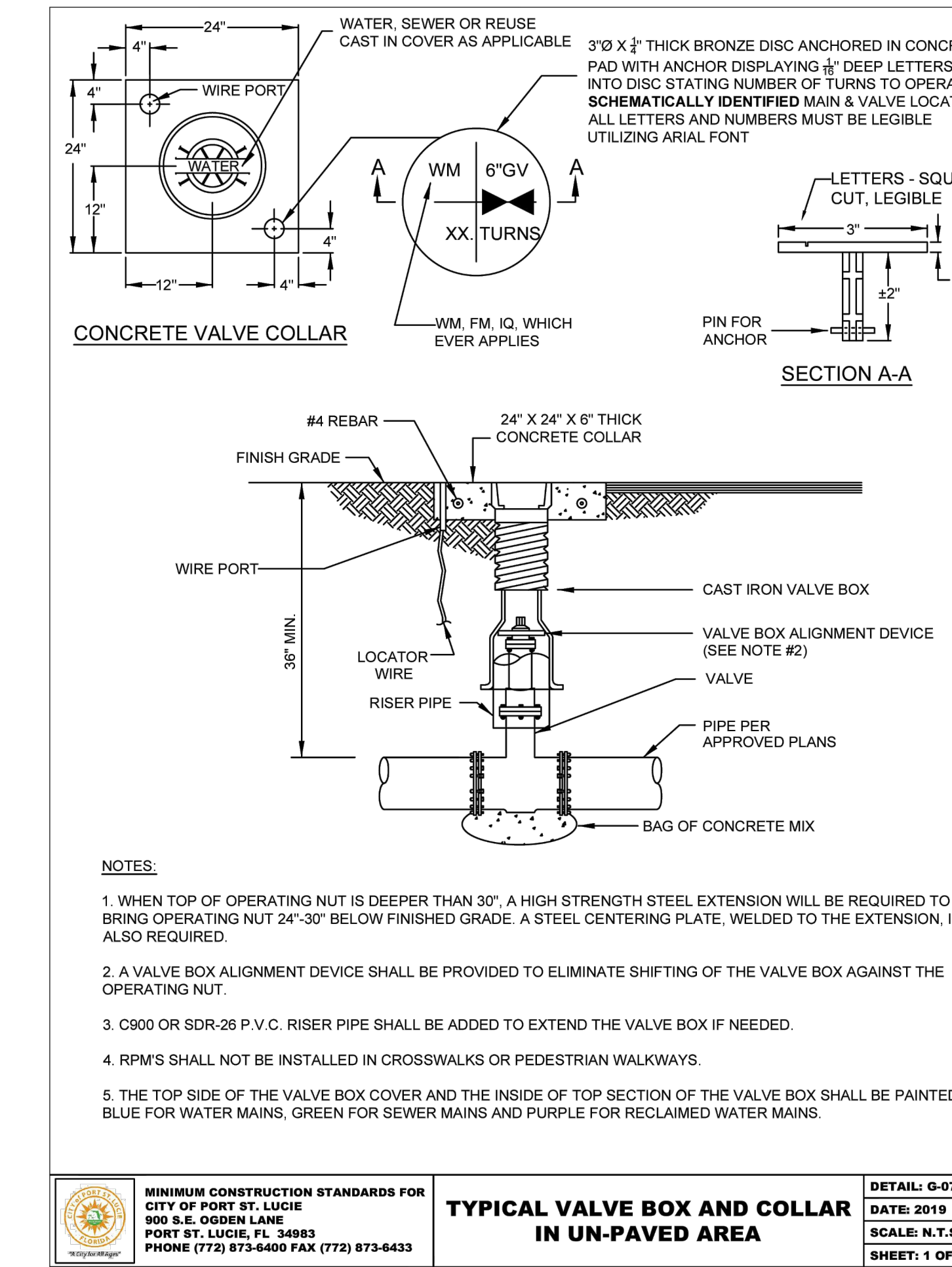
DETAIL: G-02
DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1



STANDARD PIPE TRENCH CROSS SECTION

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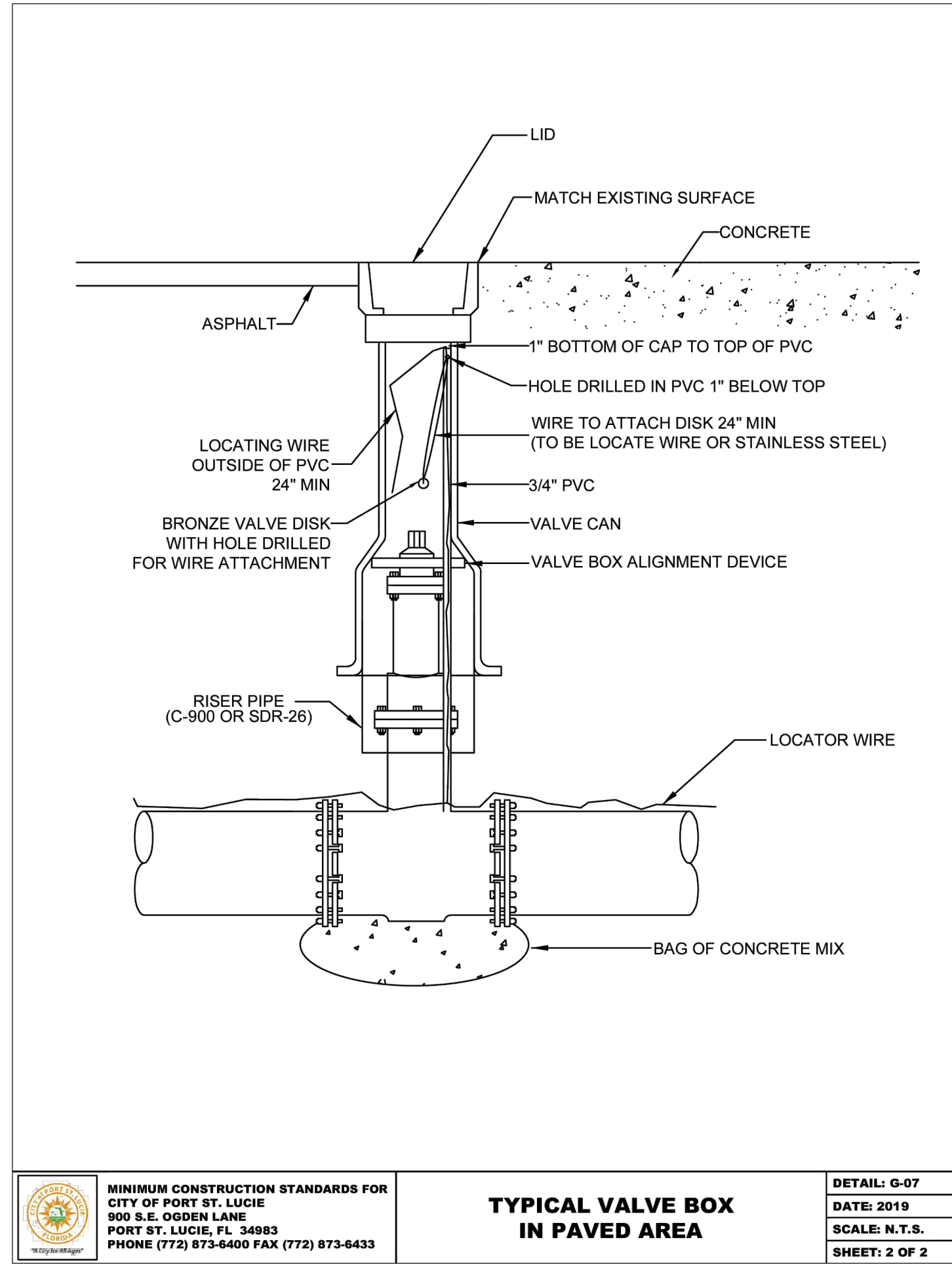
DETAIL: G-04
DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1



TYPICAL VALVE BOX AND COLLAR IN UN-PAVED AREA

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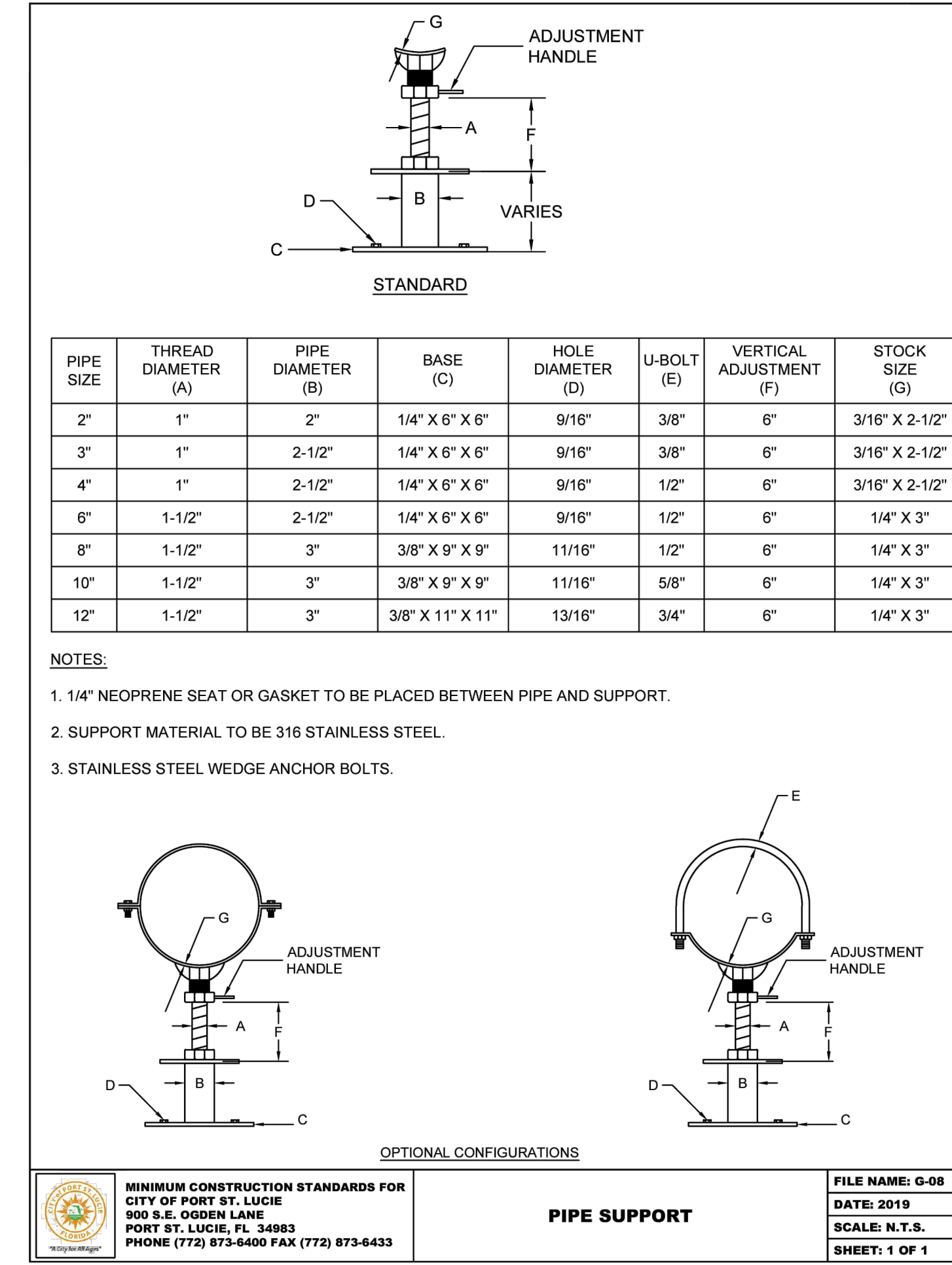
DETAIL: G-07
DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 2



TYPICAL VALVE BOX IN PAVED AREA

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

DETAIL: G-07
DATE: 2019
SCALE: N.T.S.
SHEET: 2 OF 2



PIPE SUPPORT

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FILE NAME: G-08
DATE: 2019
SCALE: N.T.S.
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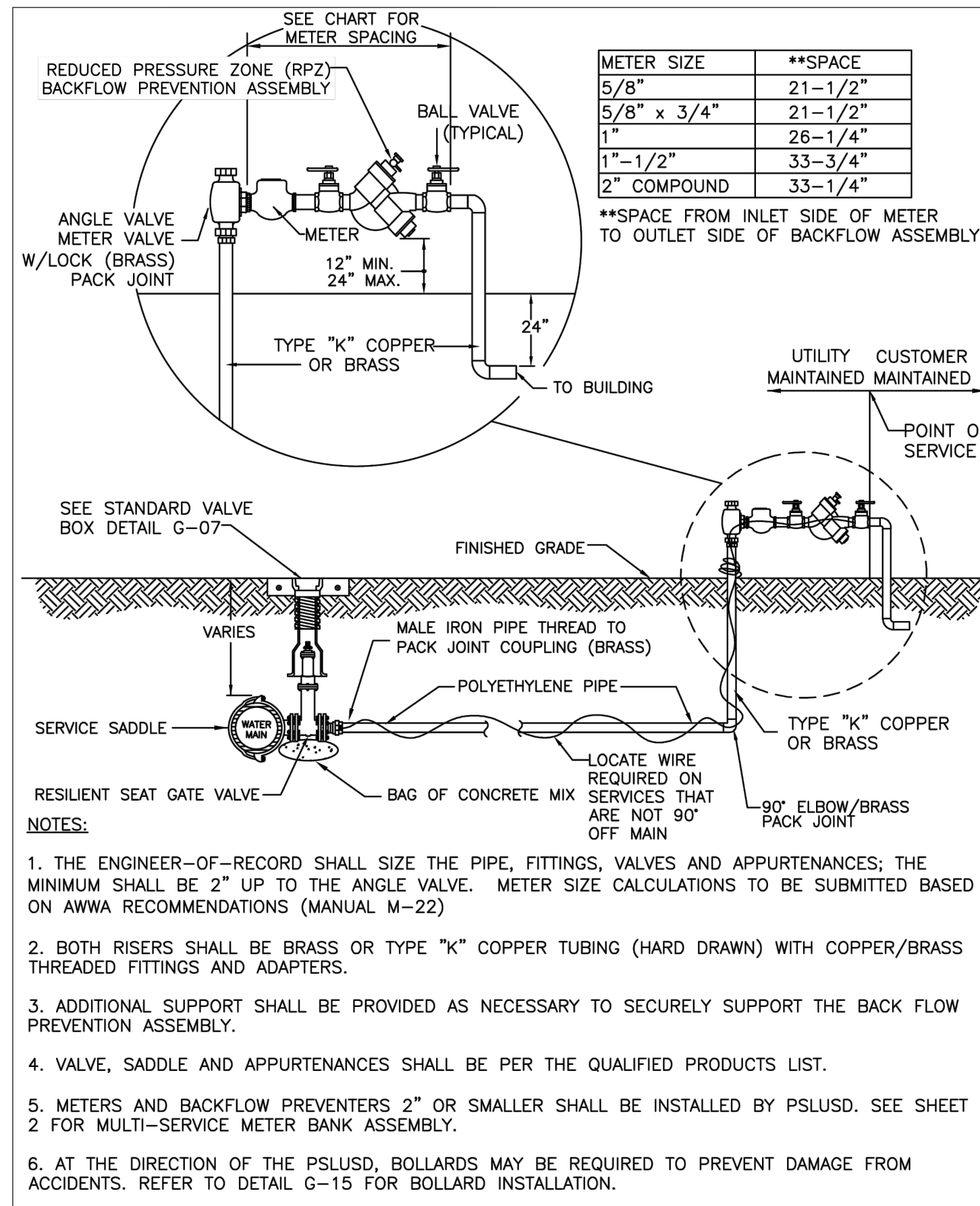
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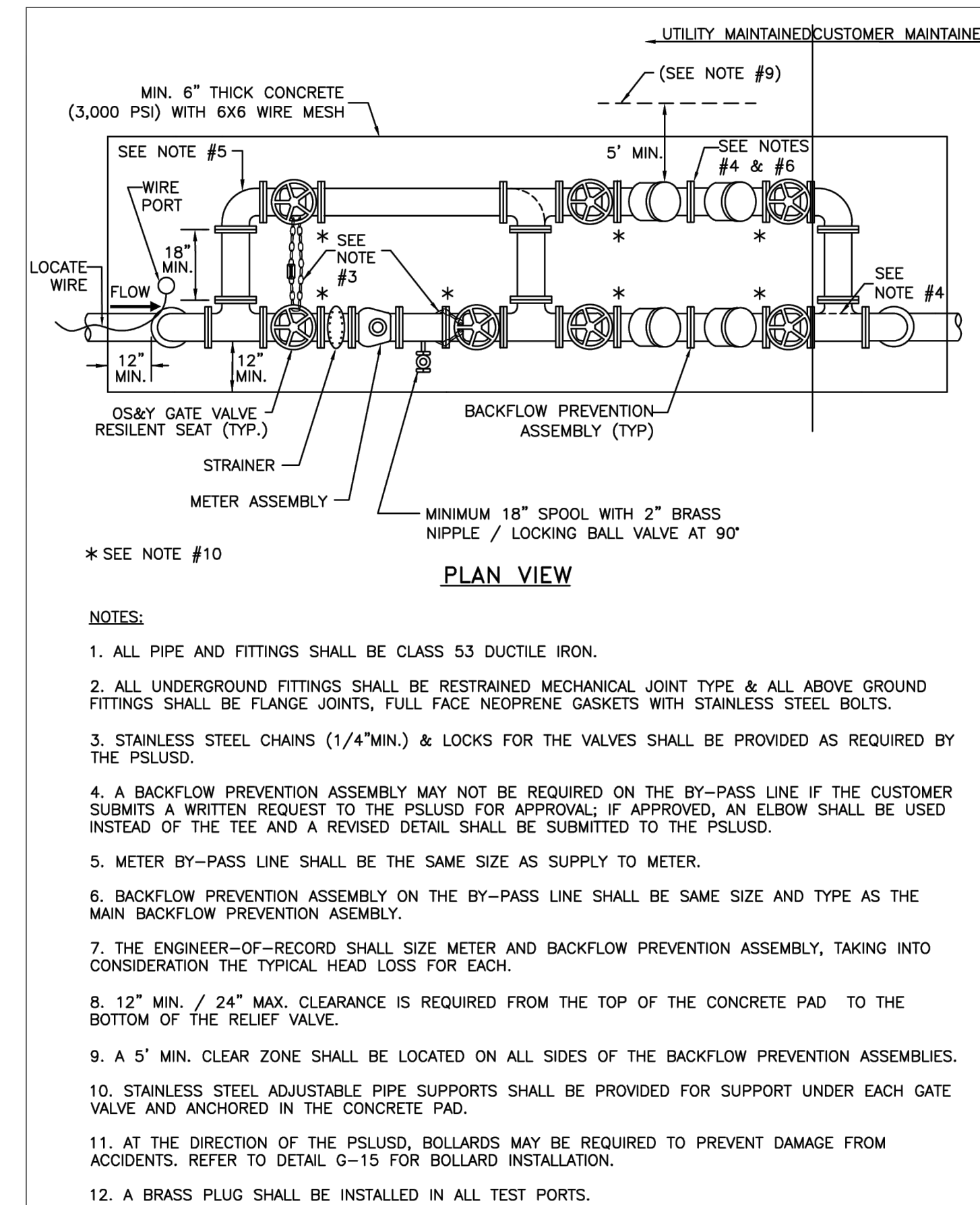
UTILITY DETAILS

C503

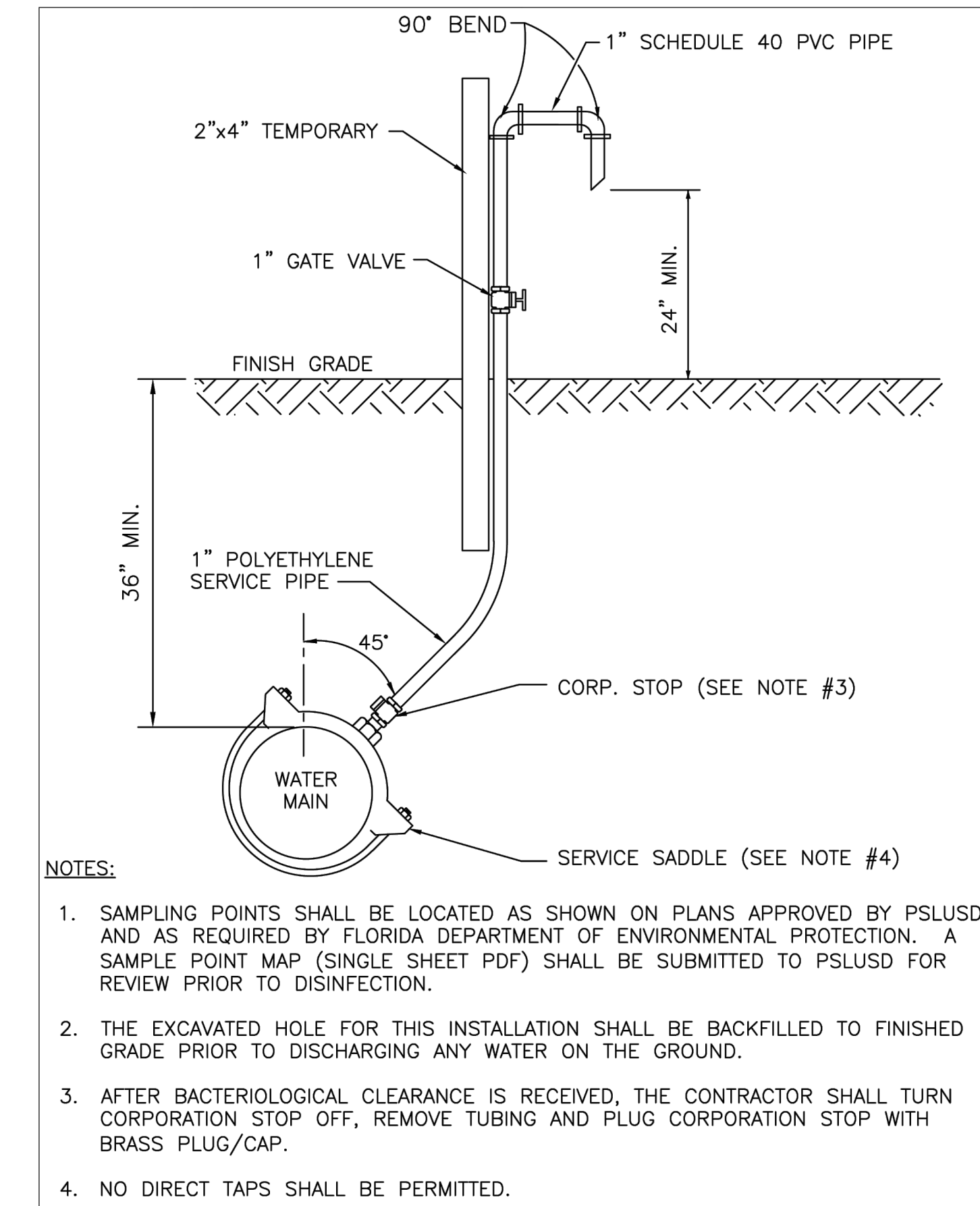
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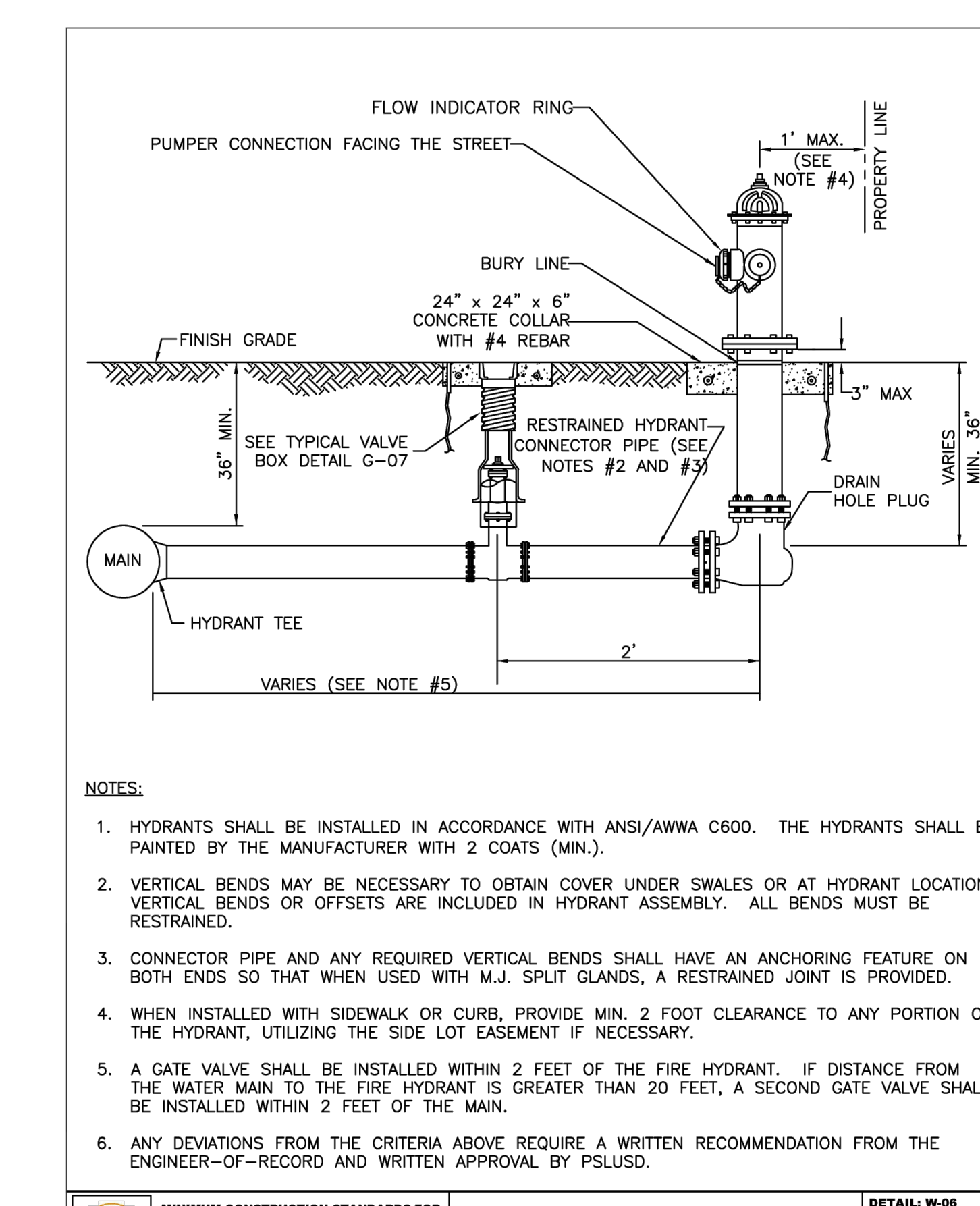
	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	COMMERCIAL WATER SERVICE CONNECTION	DETAIL: W-02 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 2
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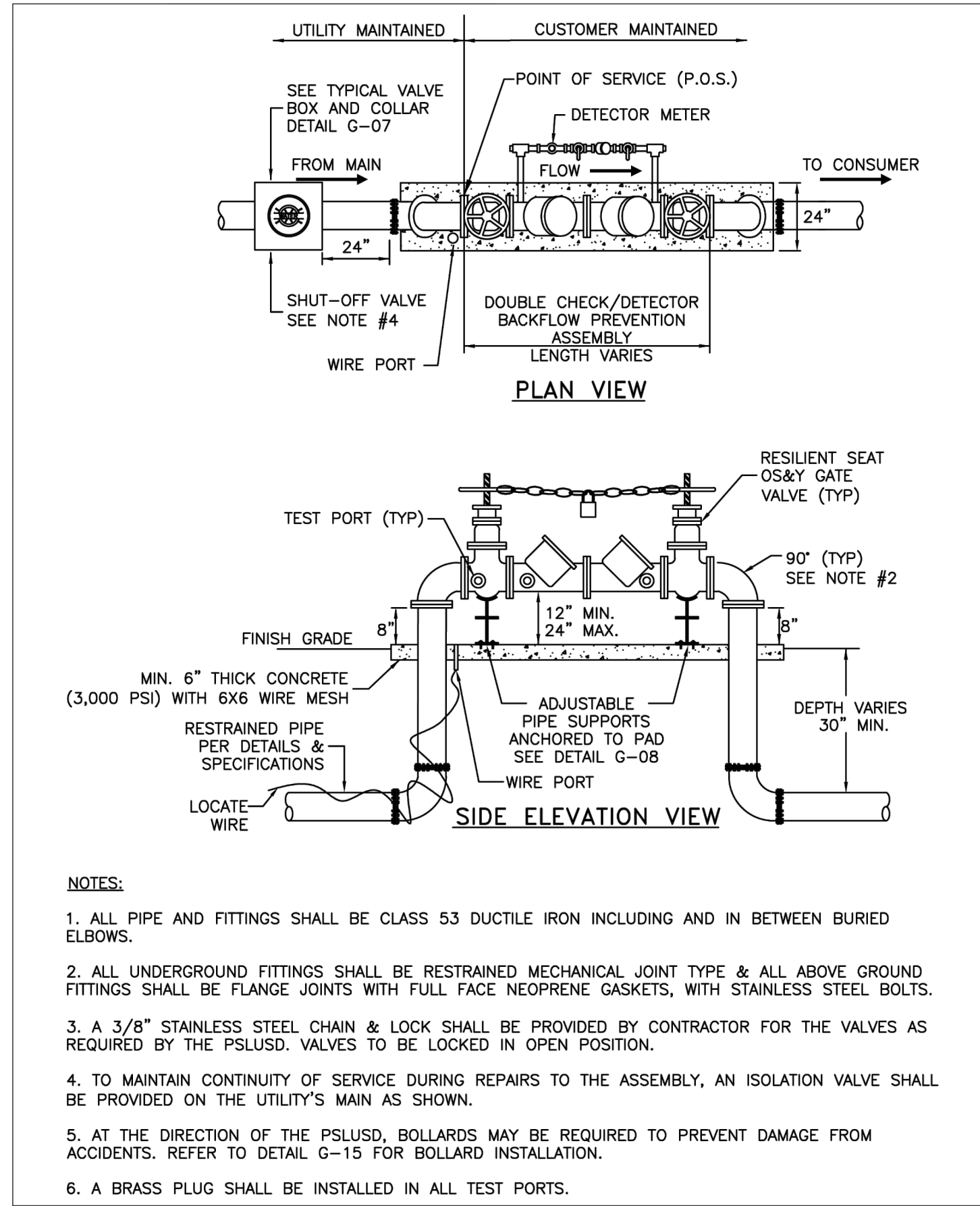
	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	METER AND BACKFLOW PREVENTION ASSEMBLY FOR 3" AND LARGER SERVICES	DETAIL: W-03 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1
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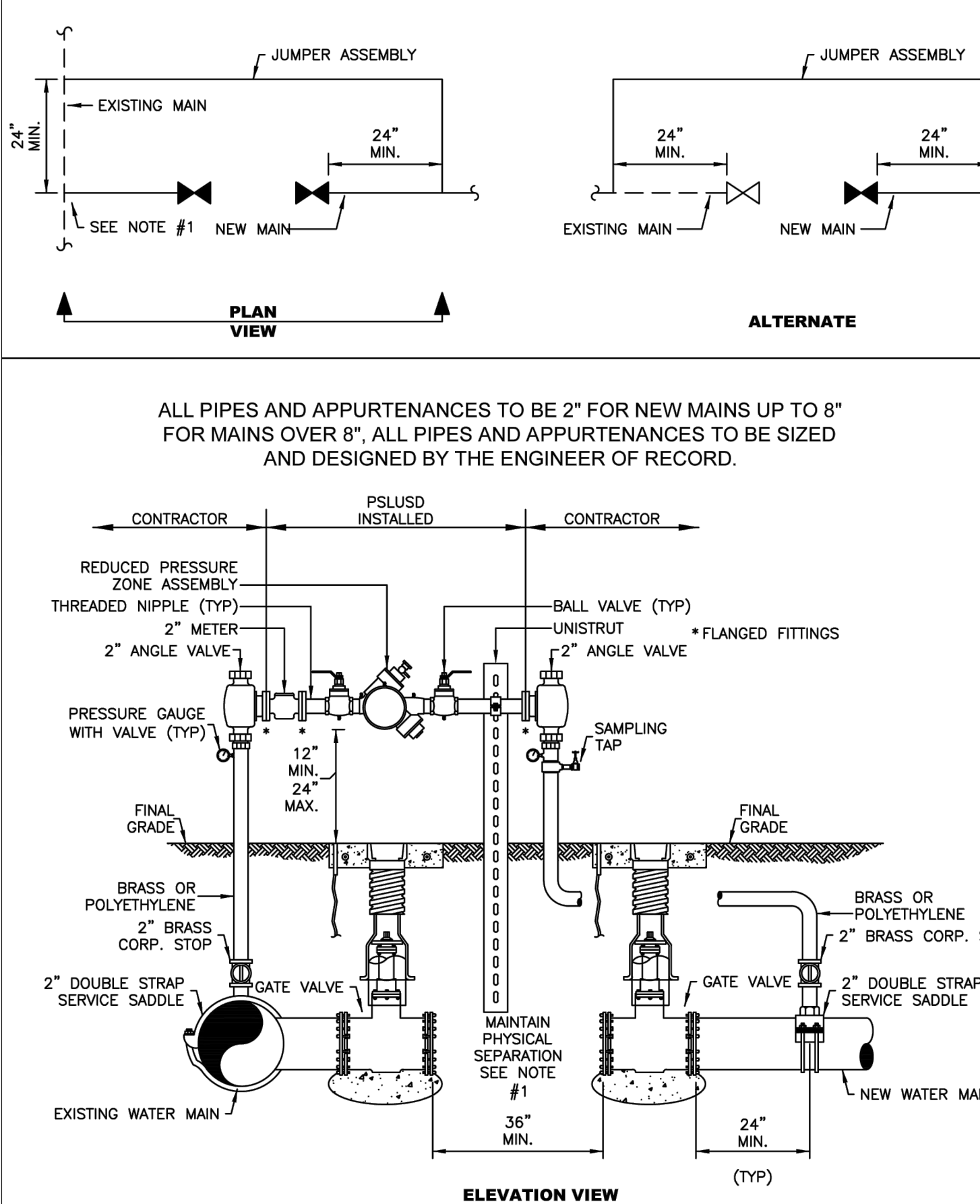
	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	WATER SAMPLING POINT	DETAIL: W-05 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1
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	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	FIRE HYDRANT ASSEMBLY	DETAIL: W-06 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1
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	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	FIRE SERVICE BACKFLOW ASSEMBLY	DETAIL: W-07 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1
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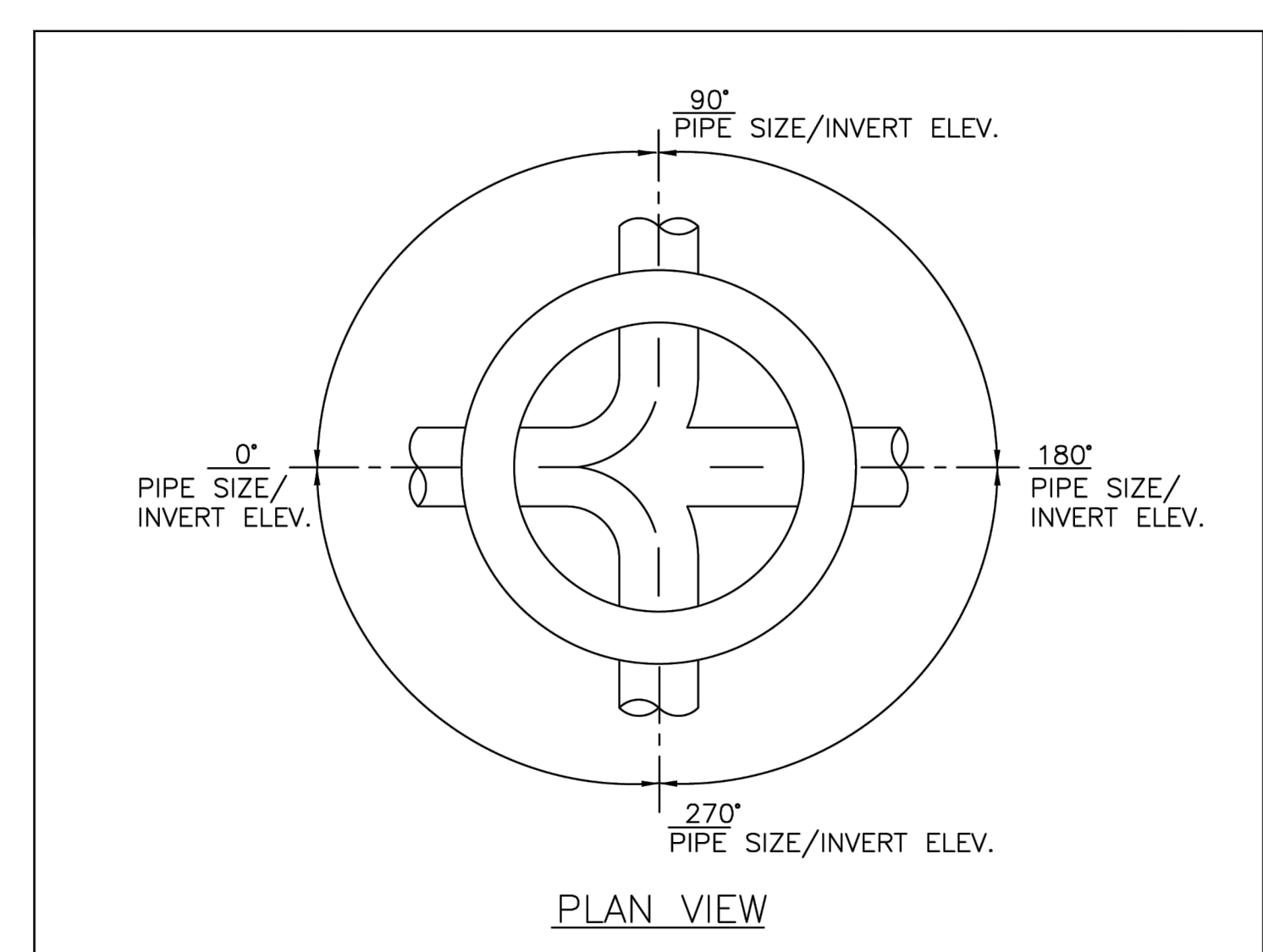
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UTILITY DETAILS

C505

EARLY SITE BID PACKAGE

C505 UTILITY DETAILS

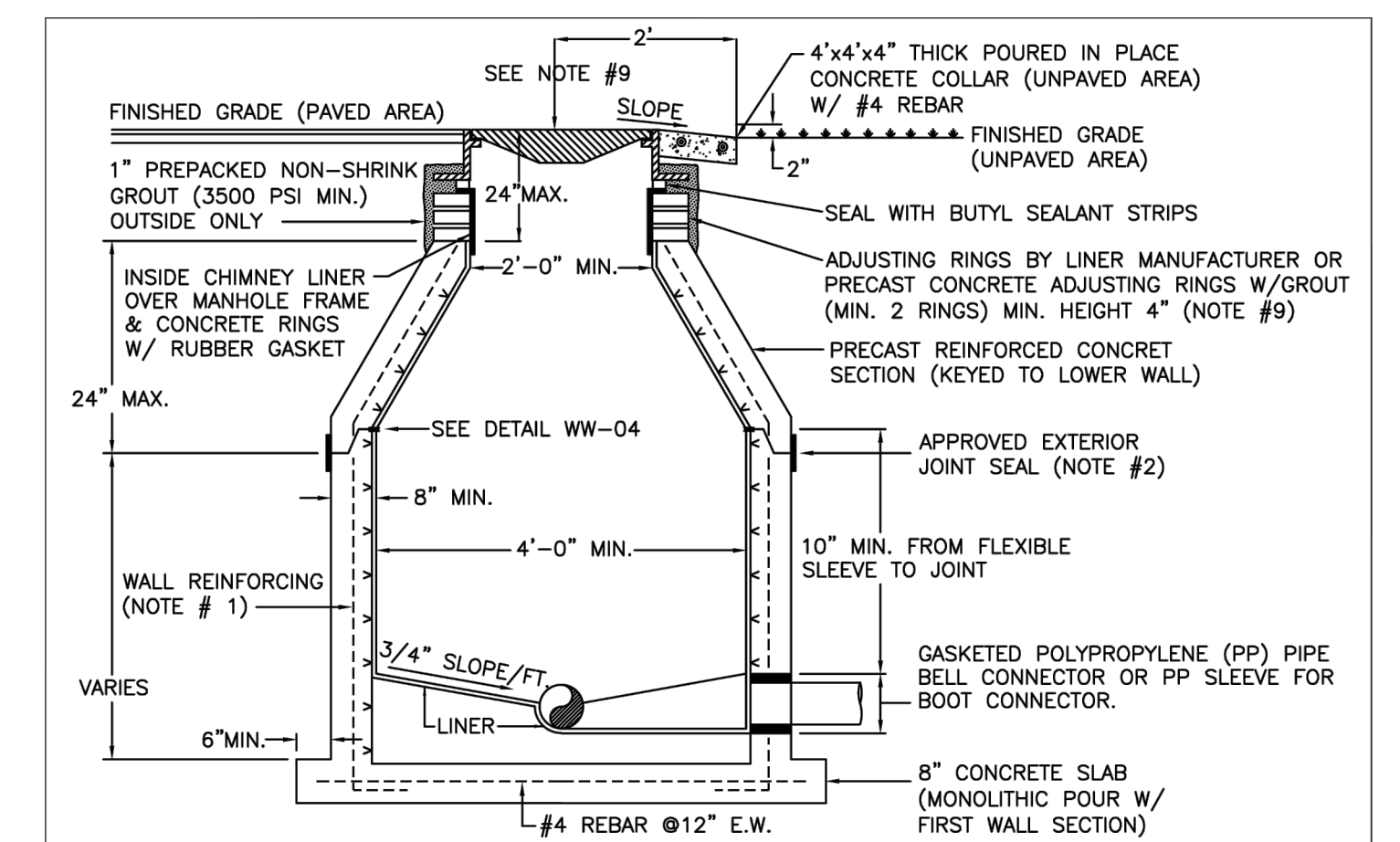


- NOTES:**
1. THE ENGINEER-OF-RECORD SHALL SUBMIT TO PSLUSD THE SHOP DRAWINGS FOR EACH STRUCTURE, PROVIDING THE DIAMETER OF EACH PIPE, INVERT ELEVATION OF EACH PIPE, RIM ELEVATION AND THE NUMBER OF DEGREES BETWEEN PIPES. (15 DEGREE INCREMENTS IF POSSIBLE)
 2. MANHOLE INTERIOR SHALL BE LINED UTILIZING A CORROSION BARRIER SYSTEM, LISTED ON THE PSLUSD QUALIFIED PRODUCT LIST.
 3. MANHOLE EXTERIOR SHALL BE COATED WITH A PRIMER AND TWO COATS OF A WATER BASED EPOXY 3-5 MILS EACH PER THE PSLUSD SPECIFICATIONS. APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

INVERT FLOW CHANNELS FOR MANHOLES

DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1

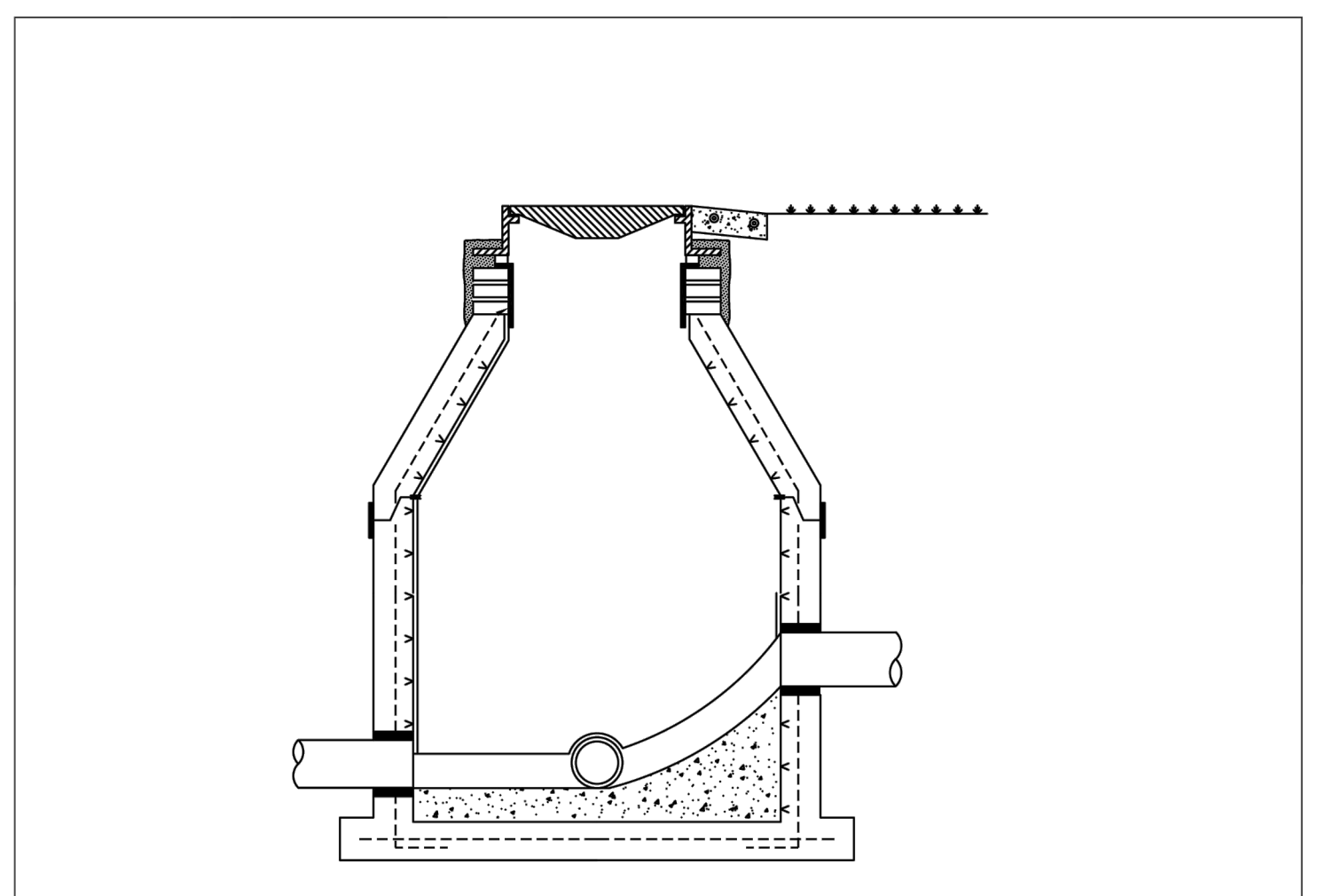


- NOTES:**
1. MANHOLE FABRICATION SHALL BE IN ACCORDANCE W/ ASTM C-478, LATEST REVISION.
 2. SEALANT SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATION BETWEEN MANHOLE SECTIONS & AT ALL JOINTS (SEE DETAIL WW-04). ALSO AN APPROVED EXTERNAL JOINT SEAL MAY BE APPLIED AT THE JOINTS. (EXTERNAL JOINT SEAL IS OPTIONAL)
 3. ALL PIPE OPENINGS SHALL BE GAS AND WATER TIGHT WITH NO EXPOSED CONCRETE SURFACES.
 4. CAST OPENINGS SHALL BE MANUFACTURED WITH PRECAST HOLE W/ CAST-IN LINER SLEEVE SIZED FOR APPROPRIATE PIPE AND FLEXIBLE CONNECTOR. APPROVED FLEXIBLE MANHOLE CONNECTORS SHALL BE USED AT PIPE CONNECTIONS. HOLE SIZE PER BOOT MANUFACTURER'S SPECIFICATIONS. DOUBLE STAINLESS STEEL PIPE CLAMPS MUST BE INSTALLED ON THE FLEXIBLE SLEEVES WHERE REQUIRED BY BOOT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 5. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT FLOW INTO FLOW STREAM (SEE DETAIL WW-01).
 6. LIFT HOLES ARE PERMITTED BUT MUST BE GROUDED ONCE MANHOLE IS IN PLACE.
 7. MANHOLE AND BASE WILL BE LINED INSIDE WITH AN APPROVED LINER SYSTEM.
 8. AN APPROVED COVER & FRAME SHALL BE PROVIDED. APPROVED INSIDE MANHOLE CHIMNEY SEALANT SHALL BE APPLIED OVER THE MANHOLE FRAME, CONCRETE RINGS, AND LINER SECTION IN ACCORDANCE WITH THE SPECIFICATIONS.
 9. MAXIMUM HEIGHT OF CHIMNEY SHALL NOT EXCEED 24 INCHES INCLUDING FRAME CASTING.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

STANDARD PRECAST MANHOLE

DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 2

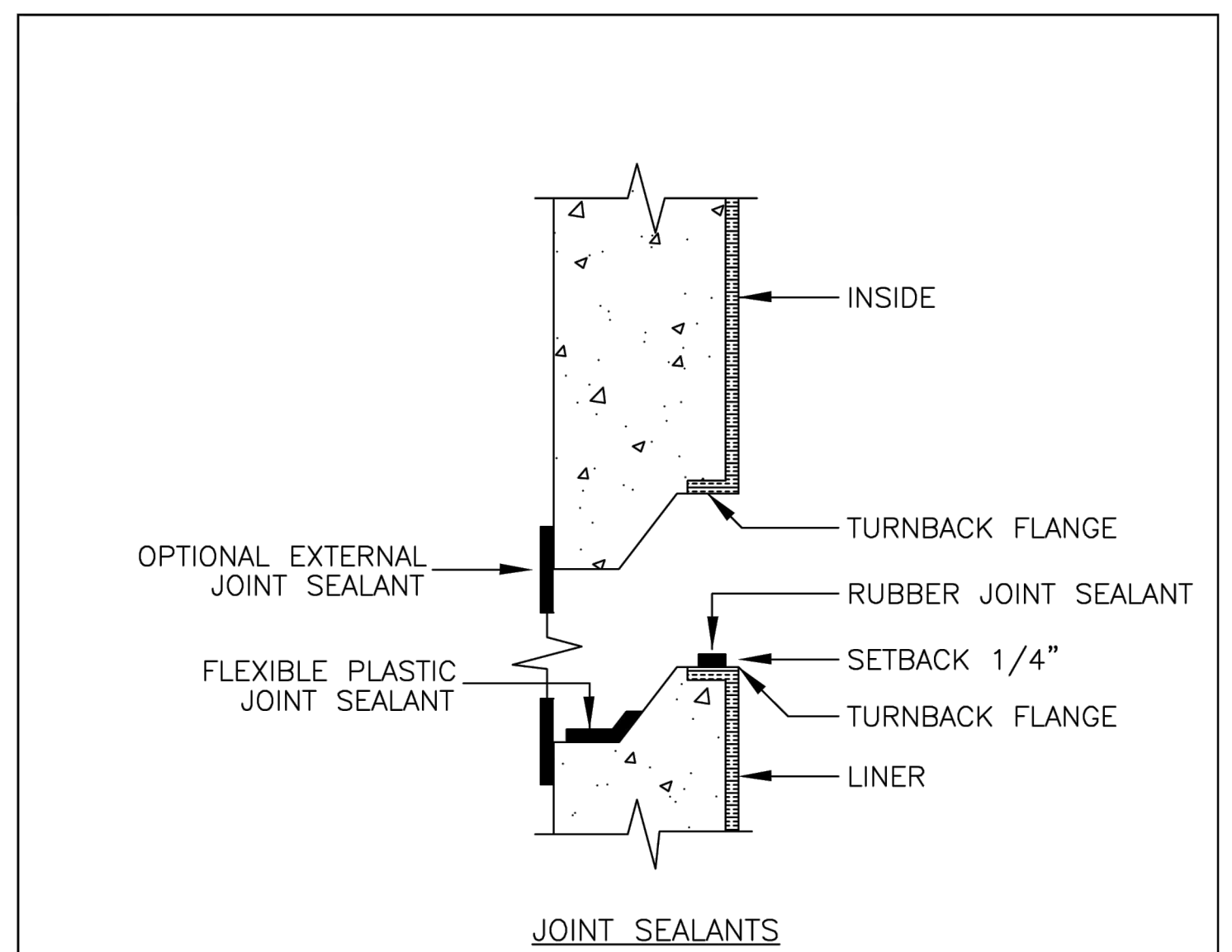


- NOTES:**
10. EXCAVATION, DEWATERING, BACKFILL & COMPACTION SHALL BE CONDUCTED IN ACCORDANCE W/ THE PSLUSD UTILITY STANDARDS. DENSITY TESTS SHALL BE PERFORMED AND SUBMITTED AS REQUIRED.
 11. THE MANHOLE BASE SHALL BE CONSTRUCTED AS SHOWN IN THIS DETAIL WHERE THE DROP IN INVERT EXCEEDS 0.1' BUT IS LESS THAN 2'. FOR DROPS 2' OR GREATER A DROP CONNECTION PER DETAIL WW-03 SHALL BE USED.
 12. THE MANHOLE SHALL BE CONSTRUCTED AS SHOWN IN THIS DETAIL WHERE THE DROP IN INVERT EXCEEDS 0.1' BUT IS LESS THAN 2'. FOR DROPS 2' OR GREATER A DROP CONNECTION PER DETAIL WW-03 SHALL BE USED.

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STANDARD PRECAST MANHOLE (DROP)

DATE: 2019
SCALE: N.T.S.
SHEET: 2 OF 2

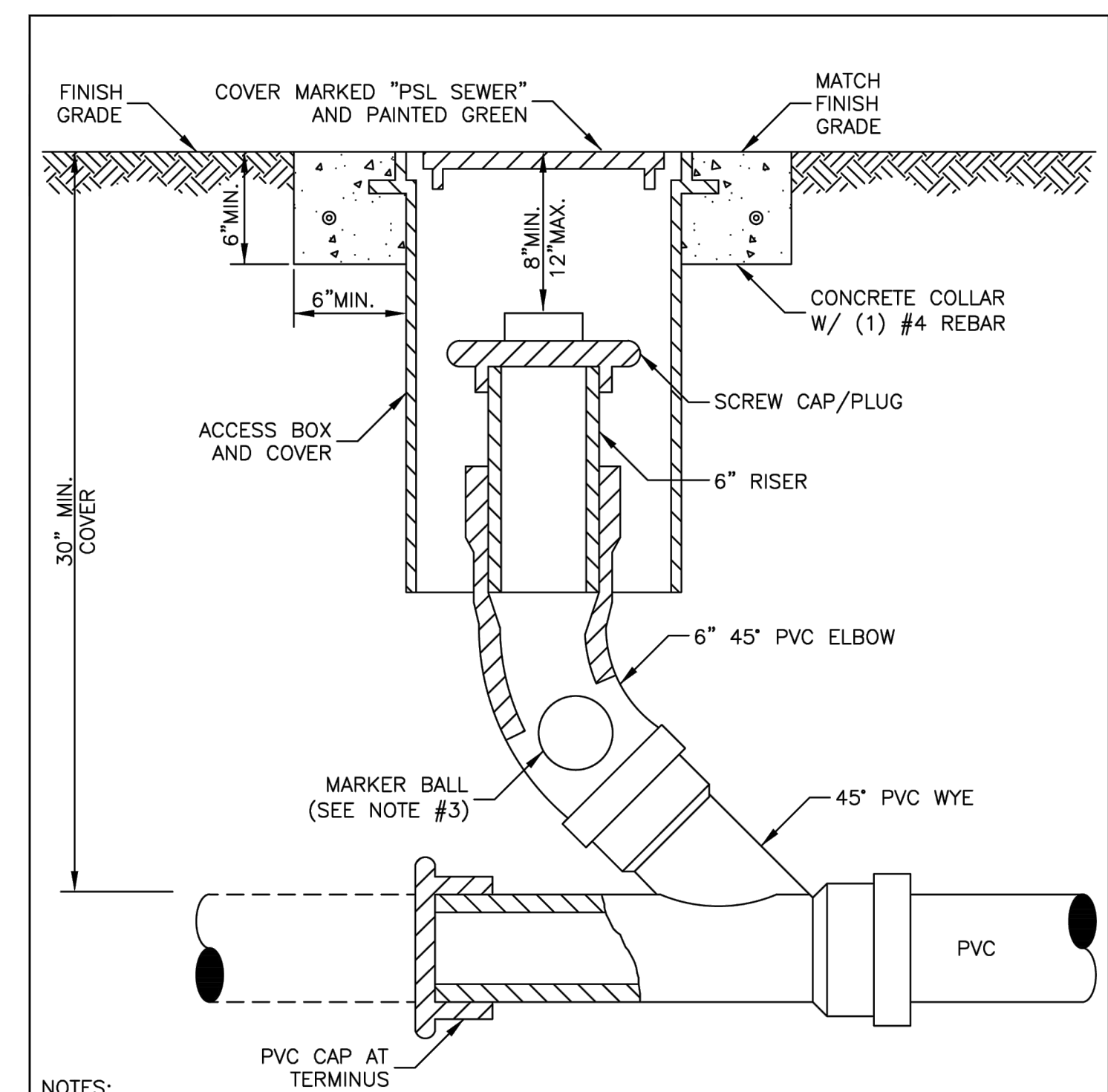


- NOTES:**
1. APPROVED JOINT SEALANTS SHALL BE USED.
 2. WELDED CAP STRIPS AT JOINTS OR WELDED JOINTS MAY BE ACCEPTABLE IF APPROVED IN WRITING BY PSLUSD.

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MANHOLE / WETWELL JOINT DETAIL

DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1

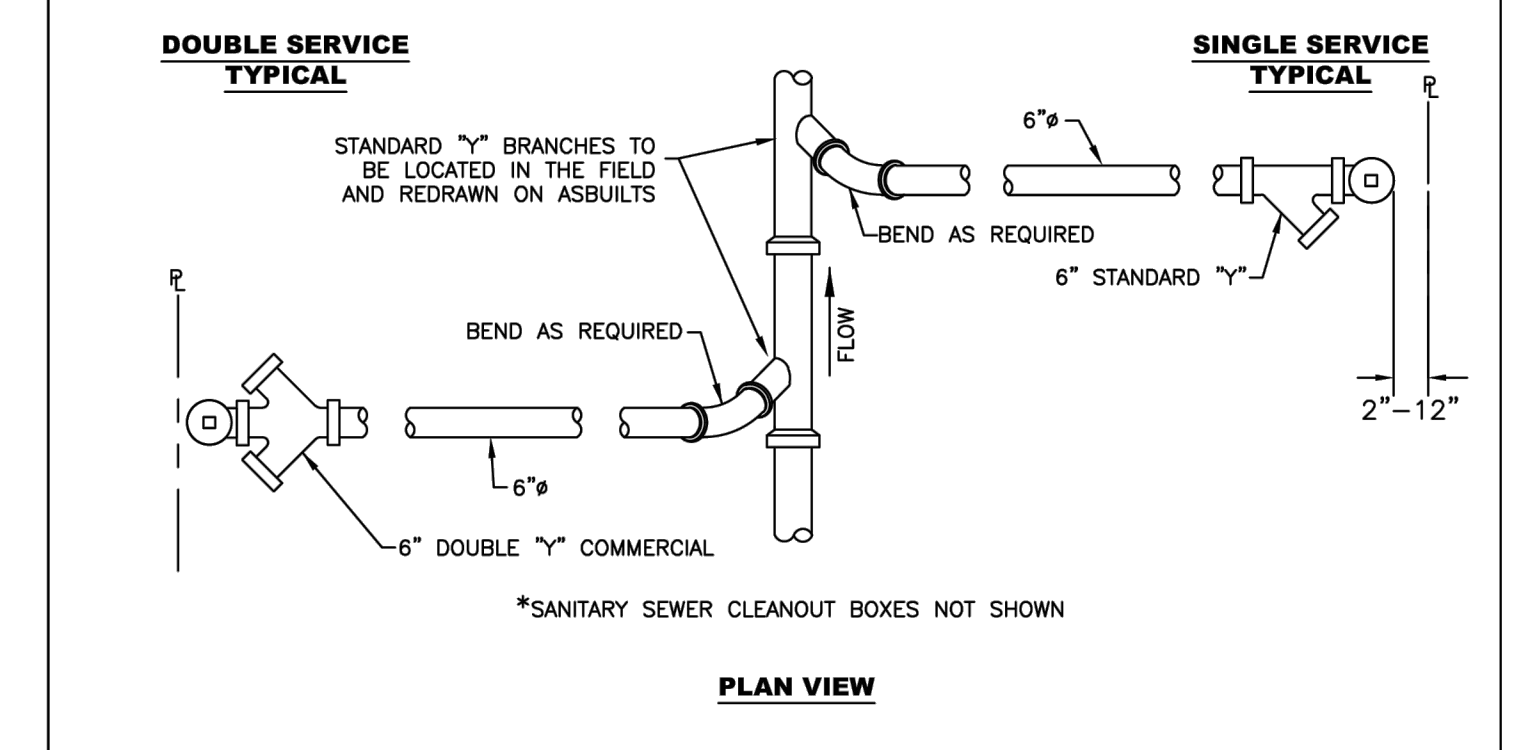
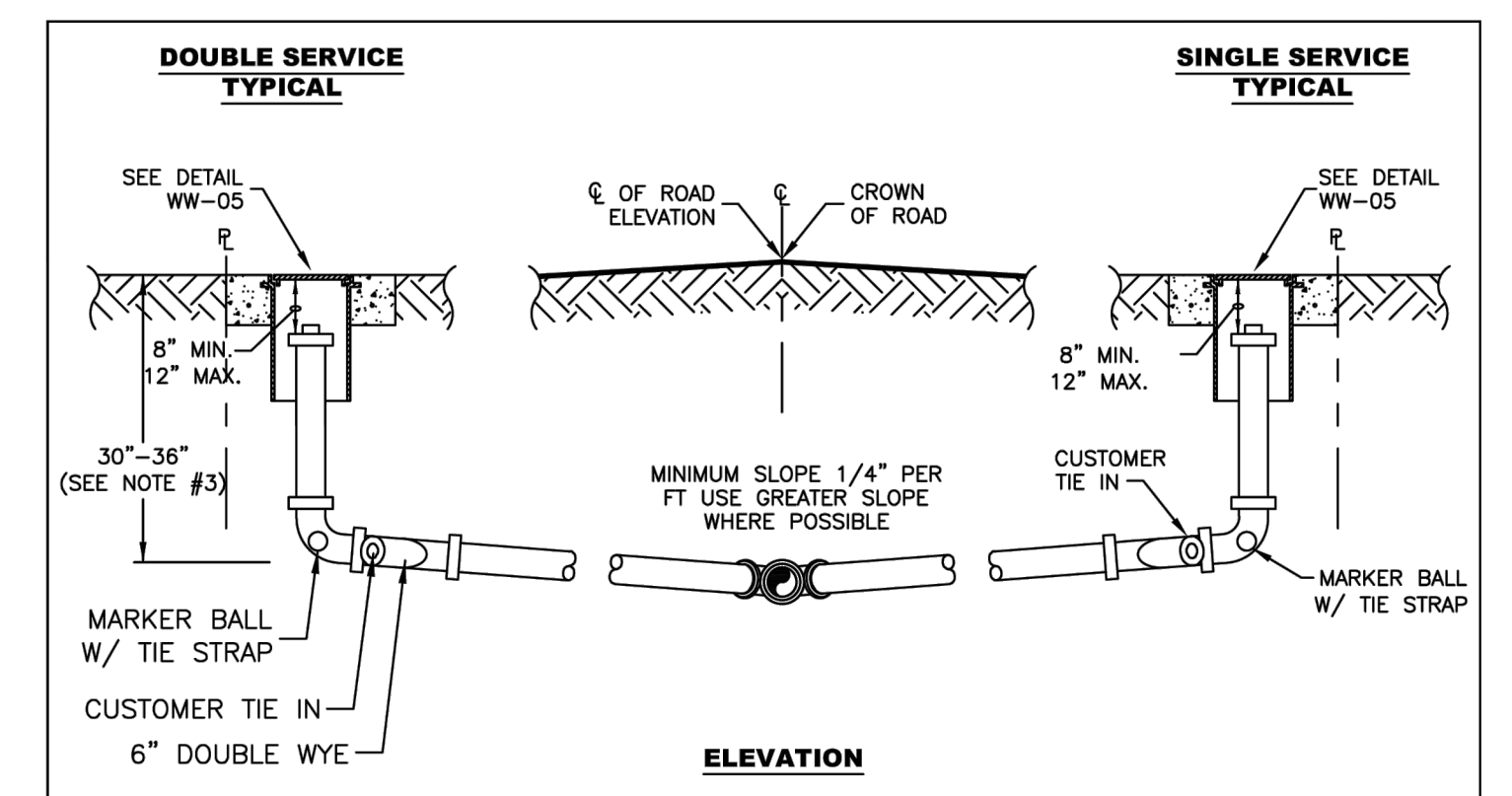


- NOTES:**
1. AN ACCESS BOX AND COVER SHALL BE USED.
 2. CLEANOUT ASSEMBLY SHALL BE INSTALLED AT A MAXIMUM 75' INTERVALS AND AT TERMINAL POINT OF THE PSLUSD RESPONSIBILITY. THE LOCATION SHALL BE IN ACCORDANCE WITH THE PSLUSD UTILITY STANDARDS.
 3. MARKER BALL SHALL BE STRAPPED TO THE ELBOW.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

SANITARY SEWER CLEANOUT

DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1

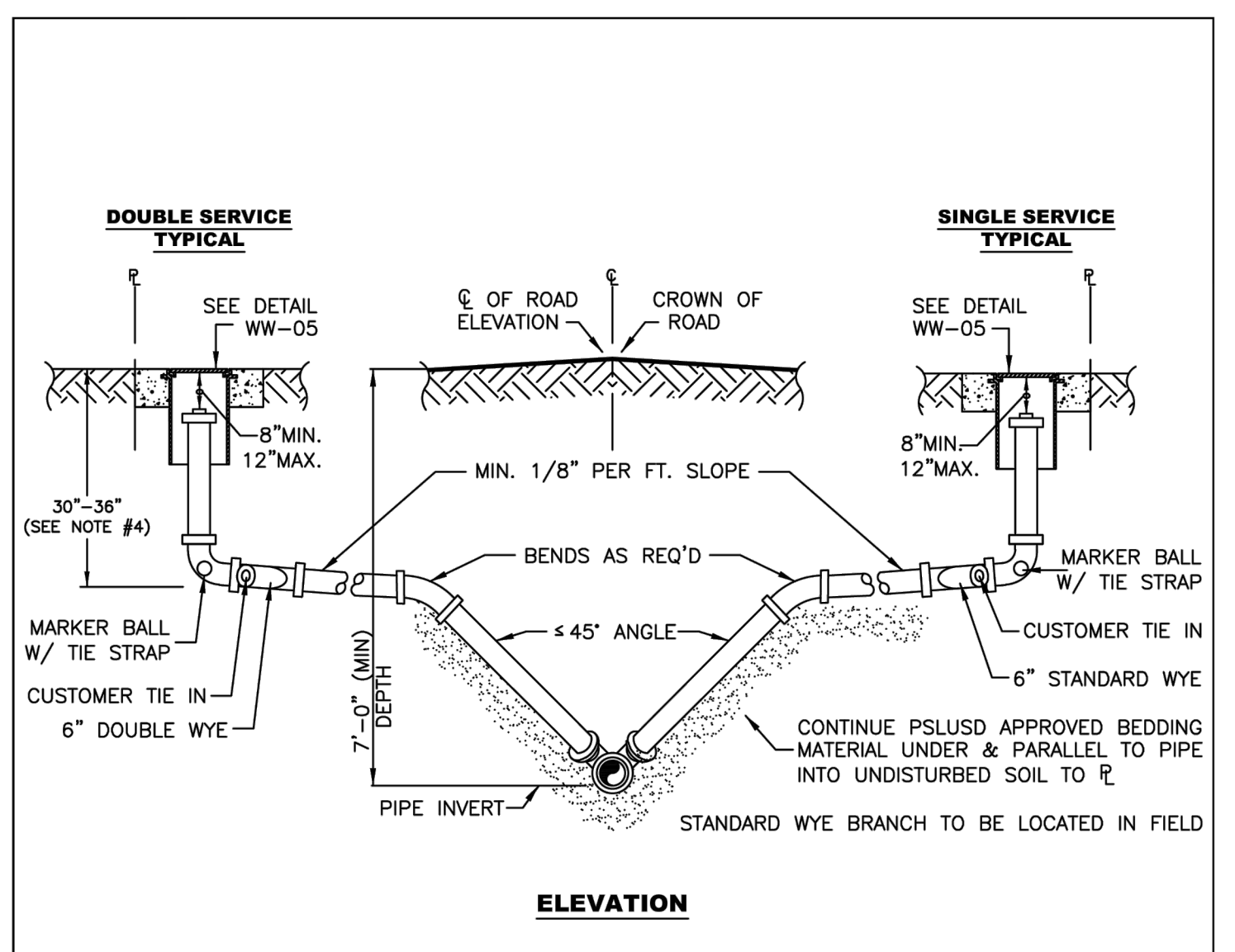


- NOTES:**
1. SANITARY SEWER LATERALS SHALL BE 6" IN DIAMETER.
 2. THE ENGINEER OF RECORD SHALL ENSURE THAT THE PROPOSED PLUMBING STUB-OUT ELEVATION FOR EACH BUILDING WILL ALLOW FOR A GRAVITY CONNECTION TO THE SANITARY SEWER LATERAL WITH THE REQUIRED SLOPE. HORIZONTAL AND VERTICAL SEPARATION SHALL BE MAINTAINED AS REQUIRED IN THE UTILITY STANDARDS MANUAL.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

SANITARY SEWER LATERAL (SHALLOW)

DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1

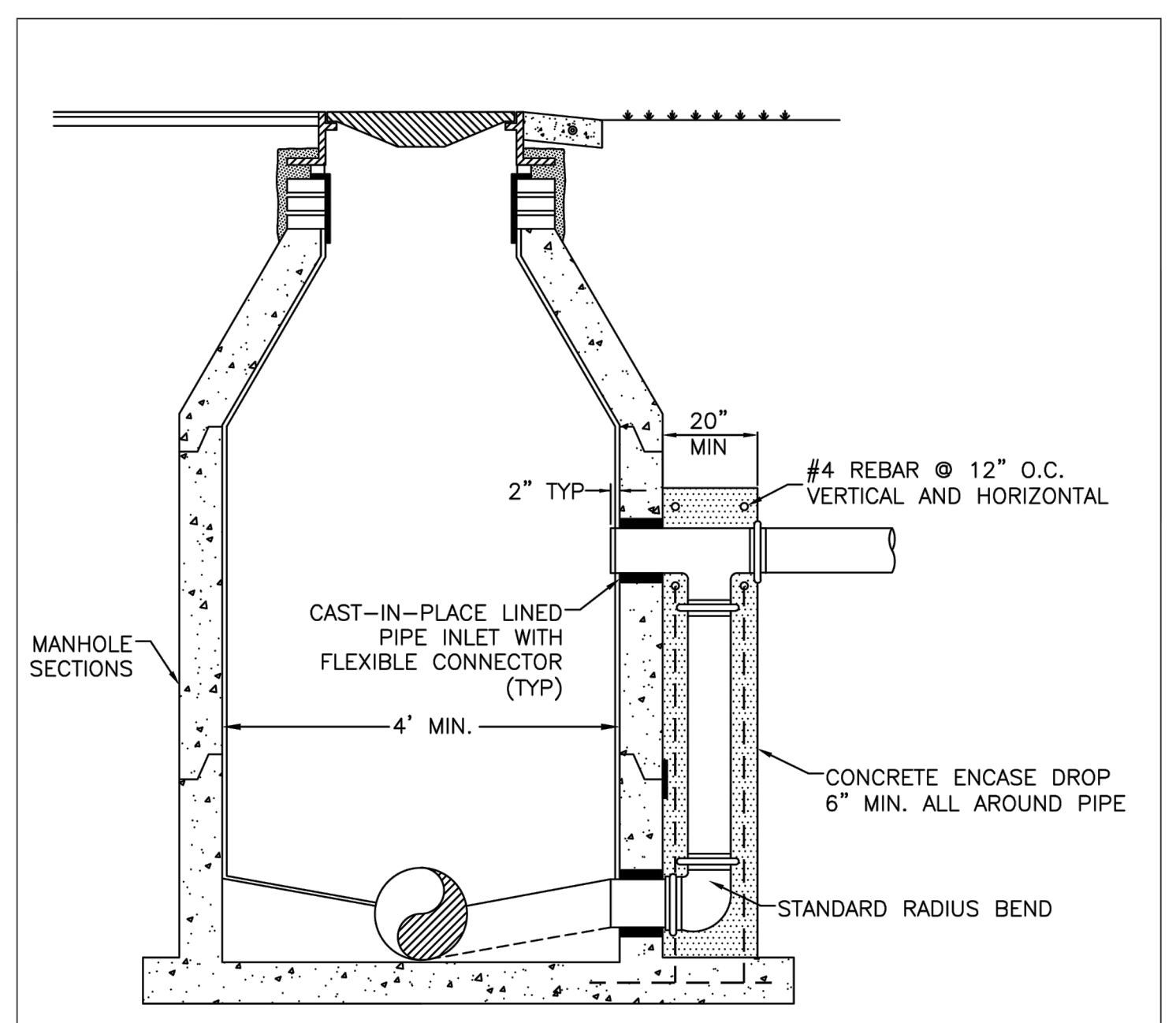


- NOTES:**
1. PSLUSD APPROVED BEDDING MATERIAL SHALL BE USED FOR EXCAVATION BACK FILL.
 2. LOCATE MARKER BALL WITH TIE STRAPS TO BE ATTACHED TO 6" ELBOW.
 3. THE ENGINEER OF RECORD SHALL ENSURE THAT THE PROPOSED PLUMBING STUB-OUT ELEVATION FOR EACH BUILDING WILL ALLOW FOR A GRAVITY CONNECTION TO THE SANITARY SEWER LATERAL WITH THE REQUIRED SLOPE. HORIZONTAL AND VERTICAL SEPARATION SHALL BE MAINTAINED AS REQUIRED IN THE UTILITY STANDARDS MANUAL.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

SANITARY SEWER LATERAL (DEEP)

DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1



- NOTES:**
1. A DROP CONNECTION IS REQUIRED WHENEVER AN INFLUENT INVERT IS LOCATED 2' OR HIGHER THAN THE DOWNSTREAM INVERT CHANNEL. MANHOLES WITH A DROP 2.0 FEET OR LESS SHALL BE IN ACCORDANCE WITH DETAIL WW-02.
 2. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL WW-02.
 3. PVC SDR 26 PIPE WITH PVC SDR 26 FITTINGS SHALL BE UTILIZED IN THE DROP ASSEMBLY.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

OUTSIDE DROP MANHOLE

DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1

SCHENKELSHULTZ ARCHITECTURE

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1	ADDENDUM 1 (REFER TO NARRATIVE)	1/11/23

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Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

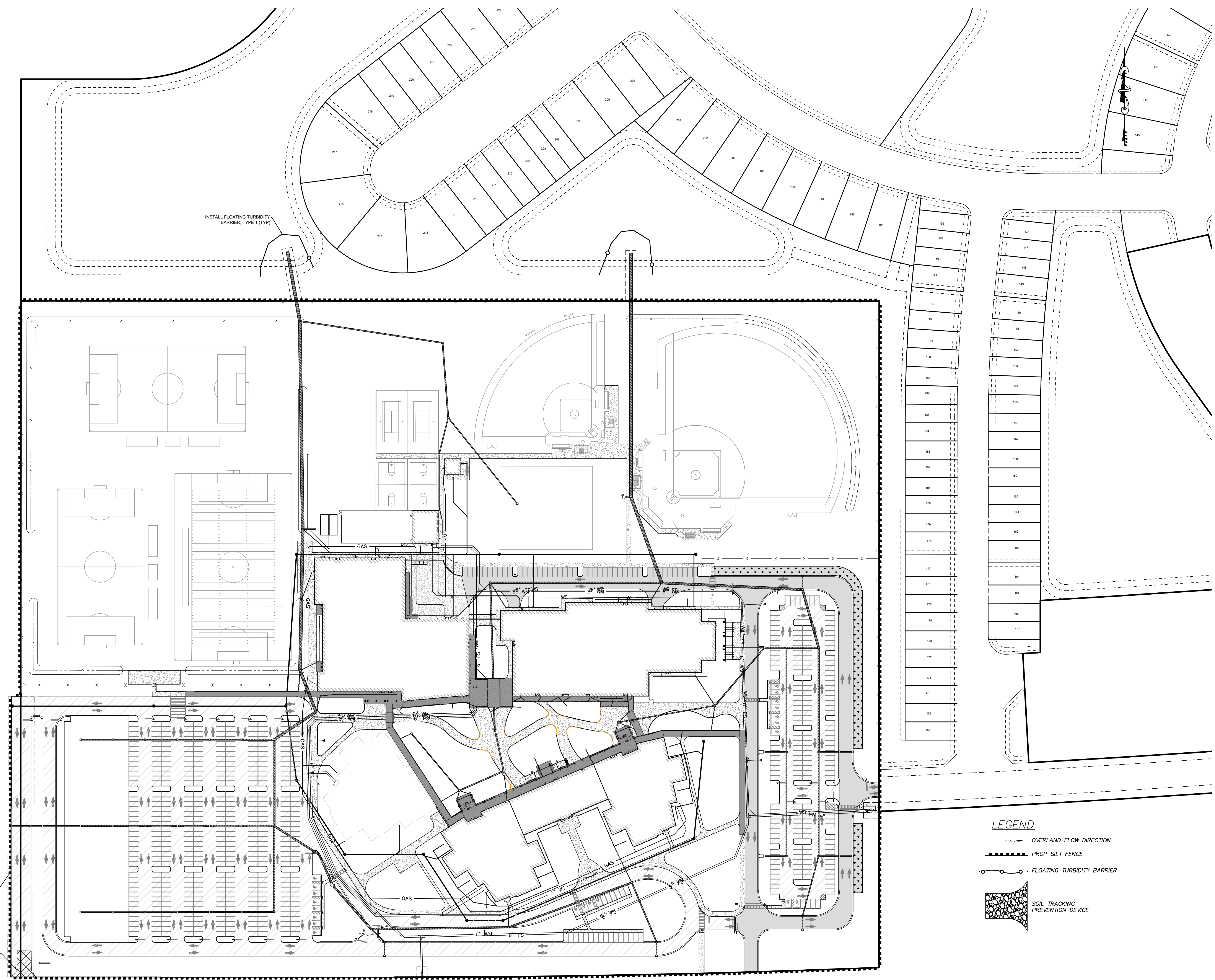
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9481 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
COMM NO.: 2022107
DRAWN BY: ZM CHECKED BY: KEC

UTILITY DETAILS

C506

EARLY SITE BID PACKAGE



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Port St. Lucie, FL



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ISSUE DATE: 10/12/22
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EROSION & SEDIMENT CONTROL PLAN

C600

EARLY SITE BID PACKAGE

R

Q

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B

A

SCHENKELSHULTZ
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3	AS1-Z - RFI REVISIONS	4/19/23
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Port St. Lucie, FL

St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9481 Brandwyne Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/12/22
COMM NO.: 2022107
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C700

EARLY SITE BID PACKAGE

1. GENERAL

A. Mobilization: Mobilization shall meet the requirements of FDOT Section 101. This work shall include, but is not limited to, operations necessary for the movement of personnel, equipment, supplies, and materials to the project site, and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by State and local laws and regulations. The costs of bonds and any required insurance, and any other preconstruction expense necessary for the start of work, excluding the cost of construction materials, shall also be included in this section. This section also includes any and all work related to the final cleanup.

B. Construction Surveying: The Owner shall provide horizontal control consisting of four control points. The Owner shall also provide vertical benchmarks as shown on the plans. This control shall be provided one time only. The Contractor is responsible for all other construction surveying. The Contractor is responsible to protect these reference points and the construction staking throughout the job. The Contractor shall bear the cost of any necessary restaking.

C. Soil Testing: Soil Testing shall be performed by a certified testing laboratory. The contractor shall be responsible for payment of any failed tests and inspections.

D. All construction to be in accordance with the latest standards of the City of Port St. Lucie, SPLUSD, FDEP, and FDOT.

E. Where muck or other organic material is found, it shall be replaced with good quality backfill material approved by Geotechnical Engineer.

2. EARTHWORK AND GRADING

Materials and construction methods for earthwork, excavation, embankment and grading shall meet the requirements of FDOT Section 120 and shall be performed to achieve final grades, elevations and typical sections as shown on the plans for the proposed work.

A. Clearing and Grubbing: Clearing and grubbing shall meet the requirements of FDOT Section 110 and shall be performed within the limits of the project work. This work shall include, but is not limited to, the removal of existing trees, brush stumps, roots and other objectionable material to a depth of 18 inches below the natural ground or design grade, whichever is lower. The areas to be cleared and grubbed generally consist of rights-of-way, utility easements, water management tracts, and portions of the lots as detailed on the plans. The Contractor shall confirm with the Owner the removal of any trees on the lots for possible preservation. All material shall be removed from the site of the project and shall be disposed of in accordance with local, regional, State and Federal laws, regulations and ordinances.

"There shall be absolutely no clearing and grubbing or placement or removal of material from within the area designated as "Preserve Area".

B. Rough Grade: The Contractor shall grade the rights-of-way and lots to meet the requirements of FDOT Sections 110 and 120 and shall conform to the lines, grades, and typical sections as shown on the plans.

C. Fine Grade: The Contractor shall fine grade the roadway to meet the requirements of FDOT Sections 110 and 120 and shall conform to the lines, grades and typical sections as shown on the plans.

D. Sod: Sod shall meet the requirements of FDOT Section 570, 575, and 981 and shall be placed adjacent to the curbing for a minimum width of 24 inches.

E. Seed and Mulch: Seed and mulch shall meet the requirements of FDOT Sections 570, 575, and 981 and shall be placed in all disturbed areas not otherwise addressed in plans provided by the owner.

3. DRAINAGE IMPROVEMENTS

Materials, trench excavation, pipe laying and backfilling operations for drainage improvements shall meet the requirements of FDOT Sections 125 and 430. Pipe shall be laid in true alignment in a pipe trench with an adequate supporting value and "bedded" to the detail shown in the plans and FDOT Section 430. All backfill shall be compacted to a minimum density of 95 percent of the maximum density as determined by AASHTO T-180, unless otherwise shown on the plans.

The Contractor shall provide all materials and labor to complete the work for drainage improvements at the locations, sizes, and types shown on the plans for the following items:

A. Reinforced Concrete Pipe: Reinforced concrete pipe shall meet the requirements of Class III of ASTM C-76, Wall Thickness "B", Latest Revision, as modified by FDOT Section 941. Gaskets for pipe joints shall be round rubber gaskets and shall meet the requirements of FDOT Section 942.

B. Corrugated Metal Pipe: Corrugated metal pipe shall meet the requirements of FDOT section 945, and shall be constructed as shown on the plans.

C. Polyvinyl Chloride (PVC) Pipe: PVC pipe shall meet the requirements of FDOT Section 948 and A.S.T.M. F-794, latest revision, and shall be constructed as shown on the plans.

D. Concrete Collar: Concrete collars shall meet the requirements of F.D.O.T. Standard Index No. 280 and shall be constructed to the detail shown on the plans.

E. Inlet Top and Grate: Concrete catch basins shall meet the requirements of ASTM C-478 and 64T FDOT Section 425. Catch basins shall be Class I concrete and shall be constructed to the detail as shown on the plans. Valley gutter grates shall meet the requirements of ASTM A-123. All inlets on-site are to be fitted with steel grates with traversable slots.

F. Storm Manhole: Storm manholes shall meet the requirements of ASTM C-478 and 64T FDOT Section 425. Storm manholes shall be Class I concrete and shall be constructed to the detail as shown on the plans.

$L = \frac{ND\sqrt{P}}{7,400}$

Where:
L = allowable leakage in gallons per hour
N = number of joints in length of pipe being tested
D = nominal diameter of the pipe in inches
P = average test pressure during the leakage test, in pounds per square inch

Following the leakage test, the Contractor shall flush the pipeline of all foreign matter and disinfect all potable water mains and services. The Contractor shall notify St. Lucie County Utilities at least 48 hours in advance of any testing procedures.

I. Disinfection: Water main shall be disinfected and approved in accordance with applicable F.D.E.P. criteria and A.W.W.A. C601, latest revision.

4. PAVING IMPROVEMENTS

All paved areas shall meet the requirements of AASHTO Specifications and FDOT, and shall be constructed to the typical sections as shown on the plans.

The Contractor shall coordinate the services of an independent testing laboratory to conduct all required testing and retesting to comply with these Specifications. The Owner shall bear the cost of initial testing and the Contractor shall correct any deficient work at his own expense.

A. Asphaltic Concrete: Asphaltic concrete materials and construction methods shall meet the requirements of FDOT Sections 300, 320, 330 and 334 and shall be as shown in the typical sections. Prime Coats shall meet the requirements of FDOT Sections 300-1 through 300-7 and shall have an application rate of 0.10 gallons per square yard, unless a variation rate is approved by the Engineer.

B. Base: The base course shall be as shown on the typical sections on the plans. The base shall be compacted to 98 percent of the maximum density as determined by AASHTO T-180.

C. Subgrade: The subgrade shall be as shown in the typical sections of the plans, and shall extend six inches beyond the edge of the base course within the limits shown on the plans. Subgrade shall be compacted to 98 percent of the maximum density as determined by AASHTO T-180. If normal compaction methods do not meet the required densities, the subgrade shall be stabilized as directed by the Engineer.

D. 1" Header Curb: Concrete 1" header curb shall meet the requirements of FDOT Section 520 and shall be constructed to the typical section as shown on the plans.

E. Type "D" and "F" Curb: Concrete type "D" and "F" curb shall meet the requirements of FDOT Section 520 and shall be constructed to the typical section as shown on the plans.

F. Concrete Sidewalk: Concrete sidewalk shall meet the requirements of FDOT Section 522 and shall be constructed to the typical section shown on the plans.

G. Traffic Striping: Traffic stripes shall meet the requirements of FDOT Section 571, and shall be as shown in the plans.

H. Stop Sign and Bar: Stop signs and bars shall meet the requirements of FDOT Section 700 and the Manual of Uniform Traffic Control Devices and shall be constructed in the locations as shown on the plans.

5. POTABLE WATER DISTRIBUTION SYSTEM

Materials, construction methods, required tests, testing methods and construction tolerances for the potable water distribution system shall meet the requirements of the current AWWA Specifications, FDEP, FDOT, and City of Port St. Lucie Utilities specifications.

Materials, trench excavation, pipe-laying and backfilling operations shall meet the requirements of FDOT Sections 125 and 430. Pipe shall be laid in true alignment in a dry pipe trench with an adequate supporting value and "bedded" to the detail as shown on the plans and FDOT Section 430. All backfill shall be compacted to a minimum density of 95 percent of the maximum density as determined by AASHTO T-180, unless otherwise shown on the plans.

A. PVC Water Main: PVC pressure pipe shall meet the requirements of AWWA C-900 and/or an approved equal with outside diameter equal to that of standard ductile iron pipe and minimum wall thickness of DR-25, Class 100 or DR-18, Class 150. Minimum cover shall be 30 inches, unless otherwise noted. Water mains shall be blue in color or marked as approved by the Owner.

B. Gate Valve with Box: Gate valves 12 inches or smaller shall meet the requirements of AWWA C-500 and shall be ductile iron, resilient seat type with mechanical joints. Valves shall be designed with a minimum working pressure of 200 psi. Each valve shall have the valve type, size, rating, and manufacturer cast into the body.

C. Ductile Iron Fittings: Water main fittings shall be ductile iron and shall meet the requirements of AWWA ANSI A21.10 (AWWA C-100). Fittings shall be designed with a minimum working pressure of 250 psi. Fittings shall be restrained with restrained joints and/or thrust blocks of poured in place concrete as per the detail.

D. Plug with 2" Blowoff: Plugs with 2" blowoffs shall meet the requirements of St. Lucie County Utilities, and shall be constructed to the typical section as shown on the plans.

E. Service Connection: Water services shall meet the requirements of City of Port St. Lucie Utilities, and shall be 1-1/2" polyethylene tubing SDR 9, copper tube size. Services shall terminate at the road right-of-way line (minimum of 1').

F. Sample Point: Sample points shall meet the requirements of City of Port St. Lucie Utilities, and shall be constructed to the typical section as shown on the plans.

G. Fire Hydrant Assembly: Fire hydrants shall meet the requirements of AWWA C502 and C600, St. Lucie County Utilities and the St. Lucie County Fire District, and shall be constructed to the typical section as shown on the plans. Minimum working pressure shall be 150 psi.

H. Testing: All pressure and leakage testing shall meet the requirements of AWWA Specifications, City of Port St. Lucie Utilities and FDEP. The complete water system shall be tested at a pressure of 150 psi for a minimum of 2 hours. No visible movement of the system shall occur and leakage shall not exceed:

$L = \frac{ND\sqrt{P}}{7,400}$

Where:
L = allowable leakage in gallons per hour
N = number of joints in length of pipe being tested
D = nominal diameter of the pipe in inches
P = average test pressure during the leakage test, in pounds per square inch

Following the leakage test, the Contractor shall flush the pipeline of all foreign matter and disinfect all potable water mains and services. The Contractor shall notify St. Lucie County Utilities at least 48 hours in advance of any testing procedures.

I. Disinfection: Water main shall be disinfected and approved in accordance with applicable F.D.E.P. criteria and A.W.W.A. C601, latest revision.

6. WASTEWATER COLLECTION AND TRANSMISSION SYSTEM

Materials, construction methods, required tests, testing methods and construction tolerances for the wastewater collection and transmission system shall meet the requirements of the current AWWA Specifications, FDEP, and City of Port St. Lucie Utilities.

Materials, trench excavation, pipe-laying and backfilling operations shall meet the requirements of FDOT Sections 125 and 430. Pipe shall be laid in true alignment in a dry pipe trench with an adequate supporting value. If normal dewatering efforts fail as specified in FDOT Section 430, a minimum six inch compacted rock bed shall be used. All backfill shall be compacted to a minimum density of 95 percent of the maximum density as determined by AASHTO T-180, unless otherwise shown on the plans. Pipe laying shall proceed up grade with spigot ends pointing in the direction of the flow.

A. 8" PVC Sanitary Sewer Main: 8" PVC sewer main shall meet the requirements of ASTM D-3034 for SDR 26. Minimum cover shall be 36 inches, unless otherwise noted. If the minimum cover cannot be maintained, sewer main shall be ductile iron pipe and shall meet the requirements of ANSI/AWWA C150/A21.50. Sewer mains shall be green in color or marked as approved by the Owner.

B. DIP Sanitary Sewer Main: DIP sewer main shall meet the requirements of ANSI/AWWA C150/A12.50. Minimum cover shall be 36 inches, unless otherwise noted.

C. Sanitary Manhole: Sanitary manholes shall meet the requirements of St. Lucie County Utilities and shall be constructed in the locations, elevations, and dimensions as shown on the plans. Manholes shall be set plumb to line and grade and shall rest on a carefully graded, uniform bearing base.

All concrete and/or mortar mixed on-site (field mixed) for use on any component of the wastewater collection system shall be made with Type I Portland cement, masonry sand, clean properly sized gravel (if required) and clean, fresh water. In no case shall shot on-site sand/grit, rock or stones be used.

Prior to placing any mortar/concrete/grout mix, the opening shall first be thoroughly prepared in accordance with the manufacturer's instruction and then a liquid bonding agent shall be applied to the surface(s) per the manufacturer's instructions. The bonding agent of choice shall be Acryl 60 as manufactured by Thoro System Products or an Engineer-approved equal.

The approved group mixture for performing all concrete repairs, filling all voids between pipe and concrete wall and plugging leaks in concrete structures shall be Master Builders Masterflow 713 Grout or Engineer-approved equal, properly plugged as shown on the plans.

D. Sanitary Drop Manhole: Drop manholes shall meet the requirements of St. Lucie County Utilities and shall be constructed in the locations, elevations, and dimensions as shown on the plans. Manholes shall be set plumb to line and grade and shall rest on a carefully graded, uniform bearing base.

E. Service Connection: Sewer services shall meet the requirements of St. Lucie County Utilities and shall be 6 inch PVC Schedule 40 with a minimum slope of 1/8 per foot of run. Sewer services shall terminate and be plugged water tight at the back of the right-of-way or utility easement line at a depth of three feet. The sewer service shall be marked with a tracked stake and electronic marker. The Contractor is not responsible for installation of meters.

F. Testing: The Engineer shall visually inspect all gravity sewer mains to verify conformance to the requirements of City of Port St. Lucie Utilities with the aid of mirrors and lights. This inspection shall be performed after the completion of all manholes, connection of all services and all compaction efforts, but prior to paving. A full pipe diameter shall be visible between all manholes. The Contractor shall repair or replace any portion that does not meet the specifications at his own expense.

STANDARD SEPARATION STATEMENT FOR WATER/SEWER CONFLICTS

1. Sanitary sewers, force mains, and storm sewers should cross under water mains wherever possible. Sanitary sewers, force mains and storm sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the invert of the upper pipe and the crown of the lower pipe whenever possible.

Where sanitary sewers, force mains and storm sewers must cross a water main with less than 18 inches vertical distance, both the sewer and the water main shall be constructed of ductile iron pipe (DIP) at the crossing (DIP is not required for storm sewers). Sufficient lengths of DIP must be used to provide a minimum separation of 10 feet between any two joints. All joints on the water main within 20 feet of the crossing must be mechanically restrained. A minimum vertical clearance of 6 inches must be maintained at all crossings.

All crossings shall be arranged so that the sewer pipe joints and the water main pipe joints are equidistant from the point of crossing (pipes centered on the crossing).

Where a new pipe conflicts with an existing pipe with less than 18 inches vertical clearance, the new pipe shall be constructed of DIP (except storm sewers) and the new pipe shall be arranged to meet the crossing requirements above.

2. A minimum 10 foot horizontal separation shall be maintained between any type of sewer and water main in parallel installations wherever possible.

In cases where it is not possible to maintain a 10 foot horizontal separation, the water main must be laid in a separate trench or on an undisturbed earth shelf located on one side of the sewer or force main at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer.

Where it is not possible to maintain a vertical distance of 18 inches in parallel installations, the water main shall be constructed of DIP and the sewer or force main shall be constructed of DIP (except storm sewers) with a minimum vertical distance of 6 inches. The water main should always be above the sewer. Joints on the water main shall be located as far apart as possible from joints on the sewer or force main (staggered joints).

3. All DIP shall be Class 50 or higher. Adequate protective measures against corrosion should be used as determined by the design Engineer.

4. Maximum obtainable separation of reclaimed water lines and domestic water lines shall be provided. A minimum horizontal separation of five feet (center to center) or three feet (outside to outside), shall be maintained between reclaimed water lines and either potable water mains or sewage collection lines. A minimum vertical clearance 18 inches must be maintained between reclaimed water lines and potable water mains or sewage collection lines. At crossings, provisions of FAC Rule 17-604 and 10 State Standards apply.

THE WORK

Existing Utilities and Structures: Existing utilities, structures and facilities shown on the Drawings were located as accurately as possible from the records examined. No guarantee is made that all existing facilities are shown or that those shown are entirely accurate. The Contractor shall assume himself of the actual location of the utilities, structures, or facilities prior to performance of any work in the vicinity. The utility companies or utility agencies will co-operate with the Contractor's operations. Prior to start of the work, the Contractor shall request each utility agency to advise him of the location of their facilities in the vicinity. The Owner will assume no liability for damages sustained or cost incurred because of the Contractor's operation in the vicinity of existing utilities or structures, or to the temporary bracing and shoring of same. In the event that it is necessary to shore, brace, or swing a utility, the utility company or department affected should be contacted and their permission secured as to the method used for any such work.

Restoration of Damaged Structures or Utilities: It shall be the responsibility of the Contractor to repair, rebuild or restore to its former condition, any and all portions of existing utilities, structures, equipment, appurtenances or facilities, other than those to be paid for under this Contract, which may be disturbed or damaged due to this construction operation, at no cost to the Owner.

Final Cleanup: Upon completion of the work, but before final payment will be made, the Contractor shall clear and remove from the Project area, all sawdust, equipment, surplus and discarded materials, rubbish and temporary structures which result from the work under this Agreement, and shall restore in an acceptable manner, all property which has been damaged during the prosecution of the work.

Record Information: Upon completion of the work, but prior to submittal of the request for final payment, the Contractor shall obtain and submit record information to the Owner. This information shall include the following:

1. Water and Wastewater Systems: As-built plans for water/sewer mains shall be provided by the Contractor/Engineer of Record and shall be completed of a reproducible map and three (3) blue-line copies of a certified survey. The blue-line copies shall bear the original signature and embossed seal of the surveyor who performed the as-built survey. The as-builts shall be submitted after the completion of construction or as otherwise indicated herein, prior to submittal to the Florida Department of Environmental Protection. The as-built survey shall be prepared in plan and profile format by a professional land surveyor registered in the State of Florida, and shall comply with applicable provisions of the Florida Administrative Code and Chapter 472 of the Florida Statutes. The as-built drawing shall be at the same scale and reference the same baseline as the drawings prepared by the Engineer of Record. The horizontal and vertical location of the mains and appurtenances shall be accurately depicted to scale and shall be identified relative to the baseline and relative to readily identifiable permanent reference points existing after the completion of the construction. Locations shall be shown for all fittings, valves, hydrants, manholes, sample points, air releases, etc., both horizontal and vertical, and the location of the main at each baseline station as shown on the plans (100 feet maximum) both horizontal and vertical. Underground facilities (i.e. drainage, gas, electric, telephone, etc.) crossing the mains shall be accurately shown both horizontally and vertically and shall identify size, type, facility, material, and clearance. All information shall be based upon measurements and observations made in the field by the surveyor certifying the survey, or by personnel under his employment, direction and supervision. The cost for preparing and maintaining the as-built plans shall be incidental to the construction cost.

2. Drainage Systems: a. High points and low points of swales; b. Locations and grate and invert elevations of all structures; c. Location, size, type, length and invert of all culverts.

3. Paving and Grading: Location and elevation of high and low points in roadway and any other changes in grade.

The record information shall be certified by a Florida Professional Land Surveyor. Locations shall be made by reference to centerline staking and offset or by other means acceptable to the Owner. Elevations shall be according to the North American Vertical Datum (NAVD).

Guarantee: All materials and the installation thereof which are furnished and installed by the Contractor, under the terms of the Agreement, shall be guaranteed by the Contractor against defective workmanship, mechanical and physical defects, leakage, breakage, and other damages and failure under normal operation for a period of one (1) year from the date of final payment, said date to constitute the commencement of the one (1) year warranty period. All materials and installations proving to be defective within the specified period of the warranty shall be replaced, without cost to the Owner, by the manufacturer or the Contractor. The period of guarantee of each such replacement shall be from and after the date of installation thereof.

UTILITY CONTACTS

Company	Telephone Numbers
City of Port St. Lucie Utilities	(772) 871-5225
Florida Power & Light	(772) 695-1227
City Gas	(321) 626-4644

GENERAL NOTES

- Grassing shall be furnished and installed in conformance with the approved landscape plan. All disturbed areas not shown to be planted, mulched, etc. shall be seeded.
- Sod shall be placed such that the top of the sod is at the same elevation as the top of adjacent finish grade.
- The location of existing utilities shown is approximate only and must be field verified by the Contractor prior to beginning Work.
- These plans shall not be used for construction unless they are marked "Approved for Construction" in the title block.
- Contractor to obtain and review all permits prior to starting construction
- Drawing scale may change due to reproduction
- Maintenance of traffic must be in conformance with FDOT Specifications.
- All nuisance exotic vegetation on-site must be removed in conjunction with site development.
- Drawing scale may change due to reproduction.