

SURFSIDE APARTMENTS

SFWMD PERMIT PLANS

PART OF SECTION 28, TOWNSHIP 44 SOUTH, RANGE 23 EAST
 CITY OF CAPE CORAL, FLORIDA
 PREPARED FOR: ZIMMER DEVELOPMENT COMPANY



SURFSIDE APARTMENTS
 CITY OF CAPE CORAL, FLORIDA

JASON E. TOMASSETTI, P.E.
 FL License No. 66263

NO.	DESCRIPTION	DATE
R1	PER SFWMD COMMENTS	1-17-19
R2	PER SFWMD COMMENTS	2-5-19
R3		
R4		
R5		
R6		

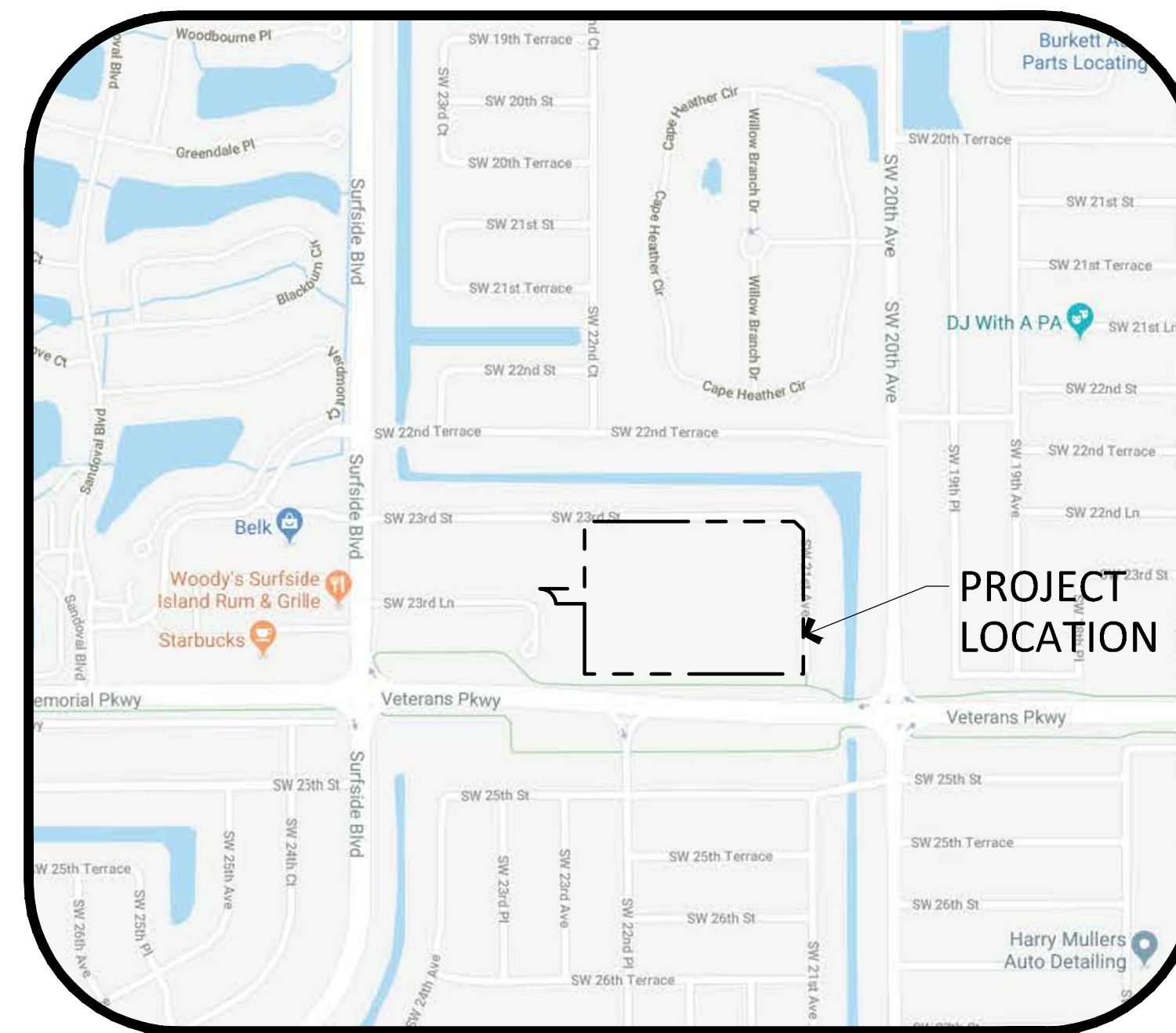
DATE:	9-27-18
PROJECT NO.	1364-01
FILE NO.	1364-01-COV.dwg
SCALE:	AS SHOWN

COVER SHEET,
 VICINITY MAP &
 INDEX

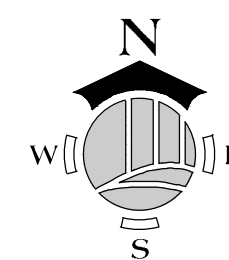
C-01

PLAN INDEX

SHEET NO.	DESCRIPTION
C-01	COVER SHEET, VICINITY MAP & INDEX
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VICINITY MAP
 N.T.S.



PARCEL ZONING
 MR

PARCEL STRAP NUMBER
 28-44-23-C4-05916.0000

PARCEL BOUNDARY
 ±19.88 AC.

FLOOD ZONE DESIGNATION
 AE-EL7 & AE-EL8 (NAVD88)

CONSTRUCTION INFORMATION

CALL 811 OR VISIT
 WWW.SUNSHINE811.COM

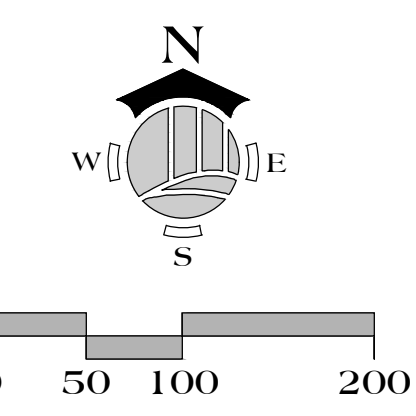
DEWATERING ACTIVITIES WILL NOT BE ALLOWED WITHOUT THE
 REQUIRED PERMITS.

SFWMD ERP PLAN SET

CERTIFICATION BY ENGINEER

THIS DOCUMENT IS SIGNED AND SEALED TO SECURE THE DATA IN THE PERMIT APPLICATION AND ANY REFERENCED SHEETS THAT WERE SUBMITTED ELECTRONICALLY AS DESCRIBED IN FLORIDA ADMINISTRATIVE CODE (PROCEDURES FOR SIGNING AND SEALING ELECTRONICALLY TRANSMITTED PLANS, SPECIFICATIONS, REPORTS OR OTHER DOCUMENTS) FOR THE APPLICABLE REGISTERED PROFESSIONAL REGULATORY BOARD. SHEETS INCLUDE: C-01, C-04 - C-18, C-20

THE SEAL APPEARING ON THIS DOCUMENT IS AUTHORIZED BY:
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 LICENSE: 66263
 DATE: 02/05/2019
 REGISTERED PROFESSIONAL COMPANY: ENSITE, INC.



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 131-26344 CAL: C-26000174

ZIMMER
 DEVELOPMENT COMPANY

SURFSIDE APARTMENTS
 CITY OF CAPE CORAL, FLORIDA

NO.	DESCRIPTION	DATE

NO.	DESCRIPTION	DATE

DATE: 9-27-18
 PROJECT NO. 1364-01
 FILE NO. 1364-01-AER.dwg
 SCALE: AS SHOWN

AERIAL MAP

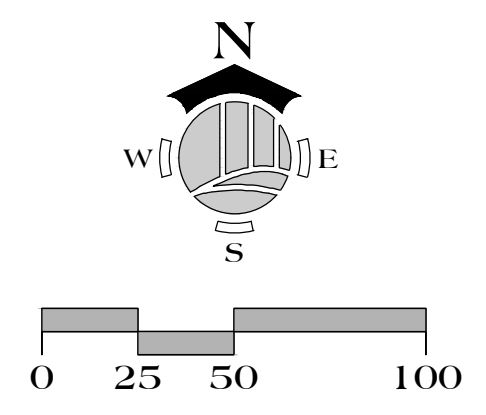
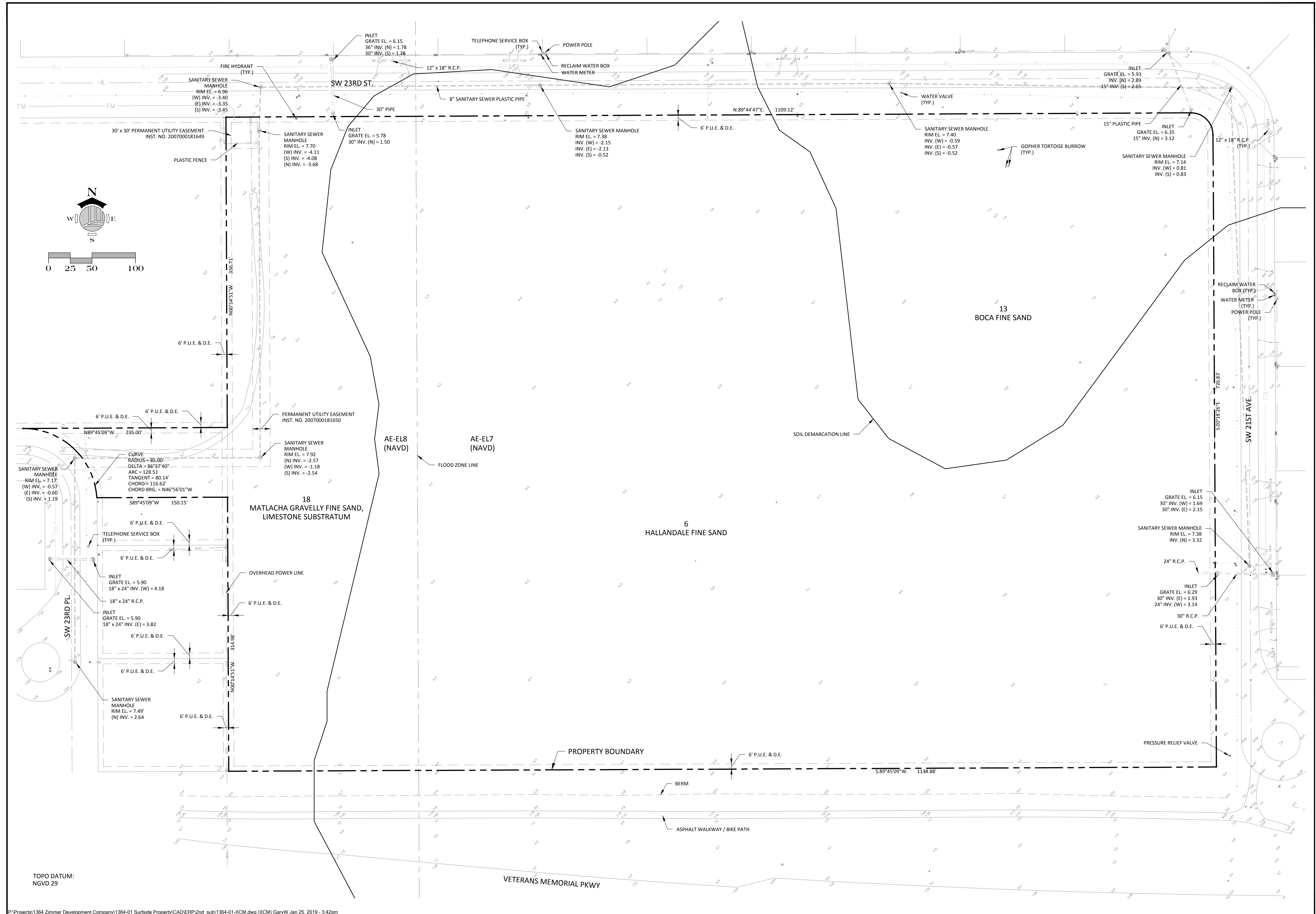
C-02

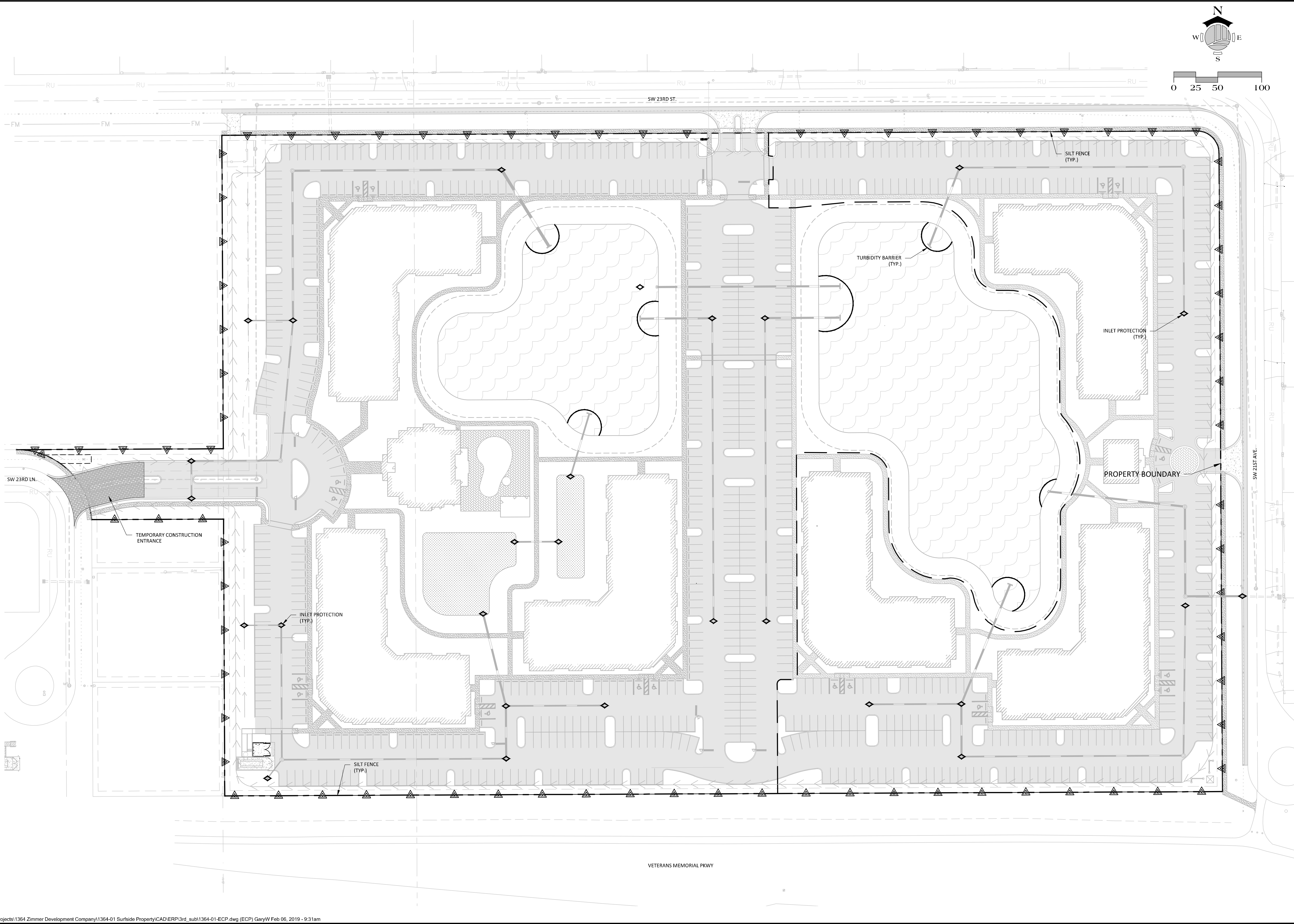
NO.	DATE	DESCRIPTION
1	11/19	PER SWM COMMENTS
2		
3		
4		
5		
6		

DATE: 9-27-18
 PROJECT NO. 1364-01
 FILE NO. 1364-01-XCM.dwg
 SCALE: AS SHOWN

SOILS & EXISTING CONDITIONS MAP

C-03

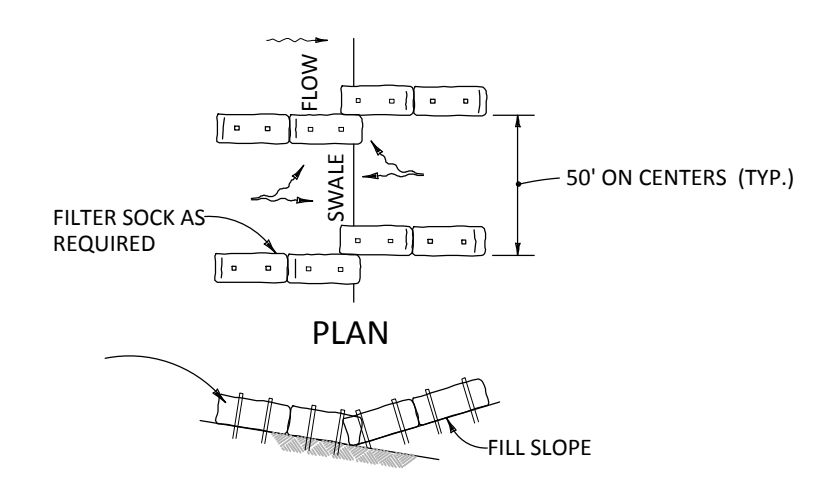




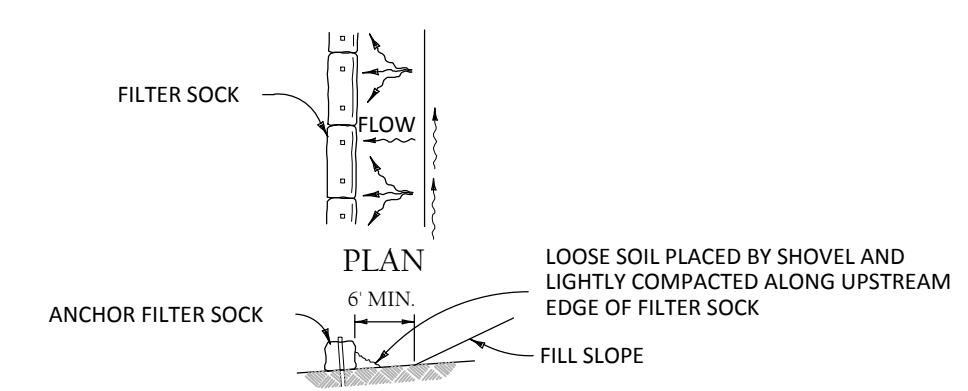
REVISIONS		DATE
NO.	DESCRIPTION	DATE
R1	PER SP/AVD COMMENTS	1.17.19
R2		
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-ECP.dwg
SCALE:	SCALE

**EROSION &
 SEDIMENT
 CONTROL PLAN**

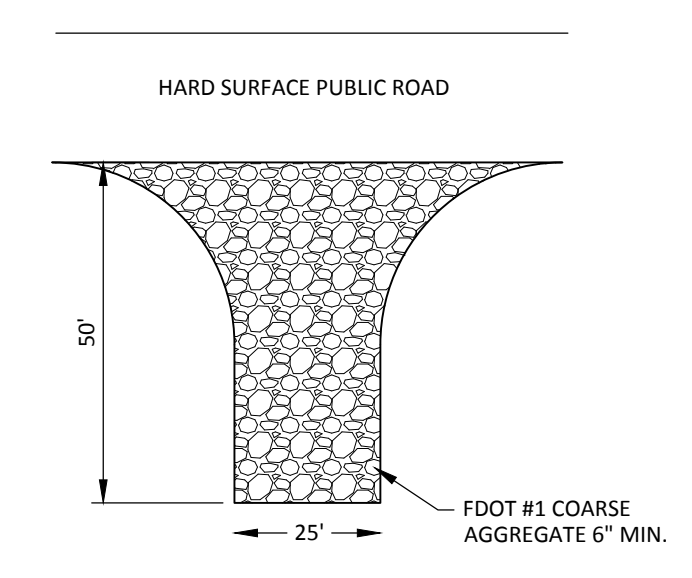


ELEVATION
 TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

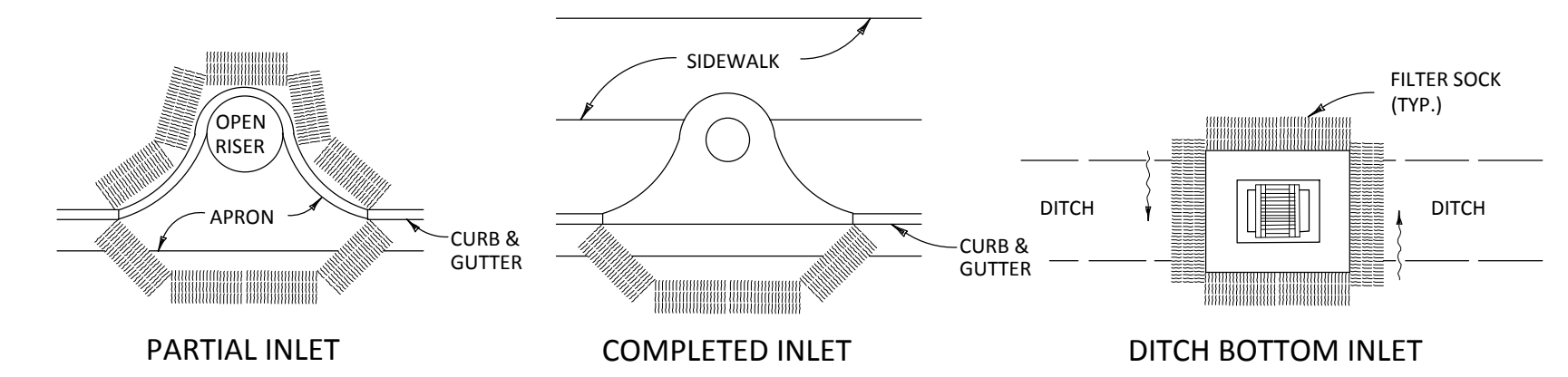


ELEVATION
 TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

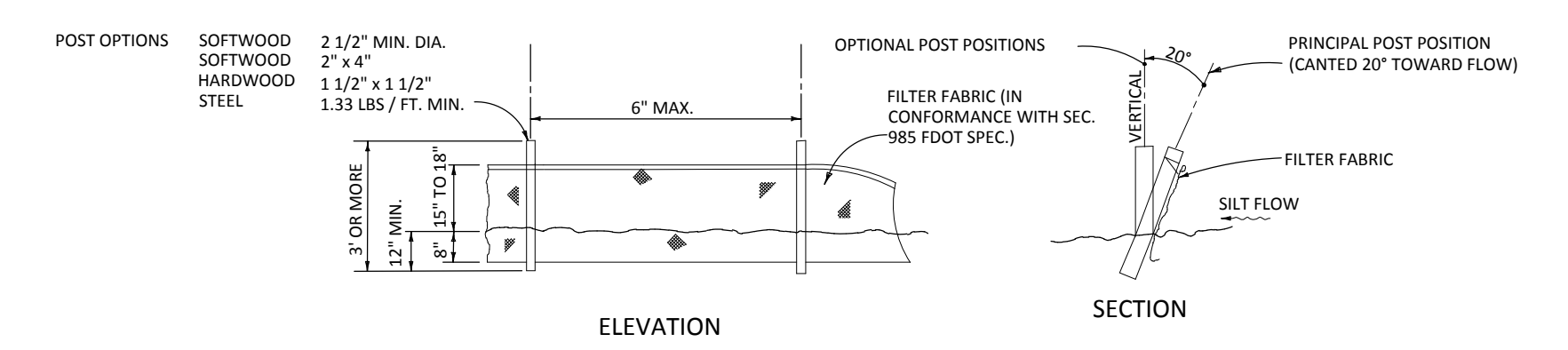
BARRIERS FOR FILL SLOPES
 N.T.S.



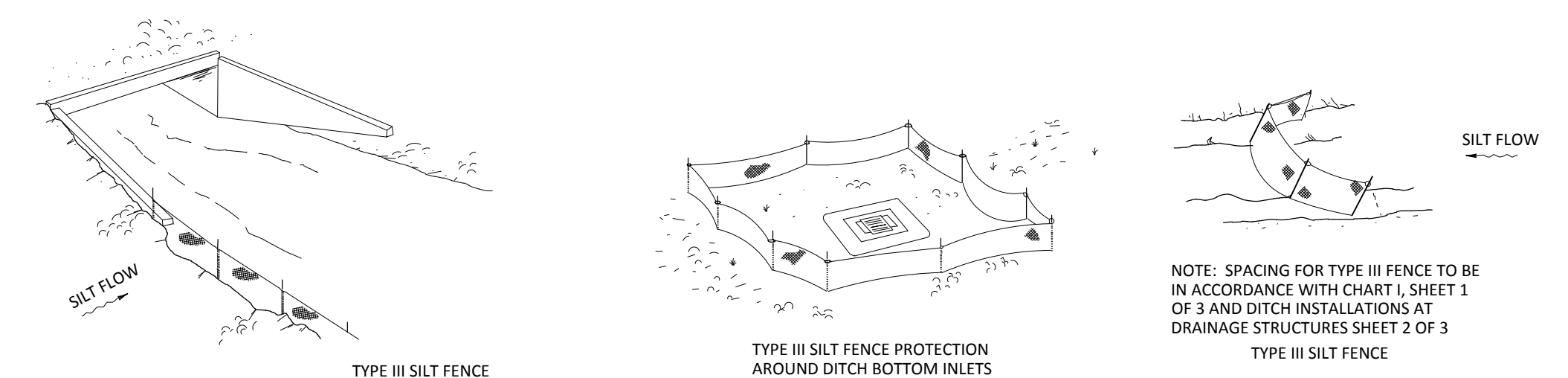
TEMPORARY GRAVEL CONST. ENTRANCE
 N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
 N.T.S.



TYPE III SILT FENCE
 N.T.S.



SILT FENCE APPLICATIONS
 N.T.S.

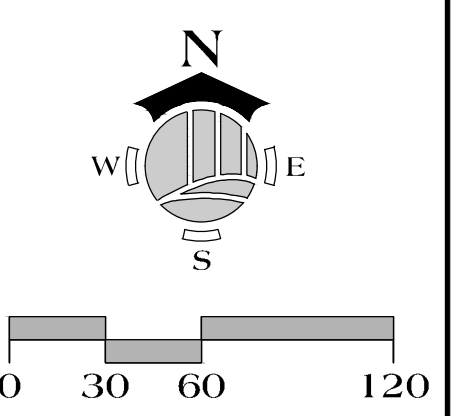
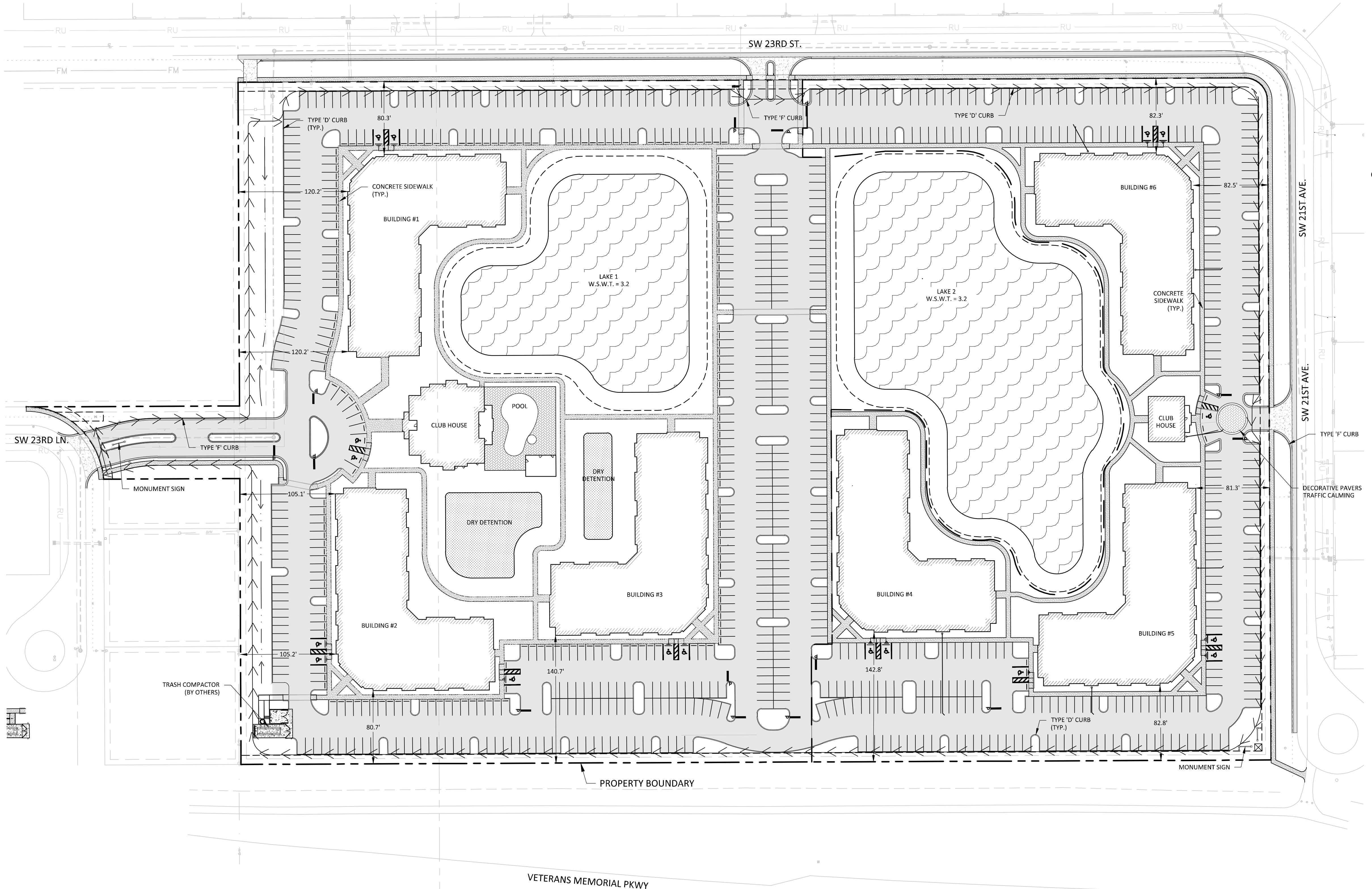
FILTER SOCK OR SILT FENCE
 PER F.D.O.T. INDEX 102
 N.T.S.

NO.	REVISIONS DESCRIPTION	DATE
R1		
R2		
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.	1364-01
FILE NO.	1364-01-ECP.dwg
SCALE:	SCALE

EROSION & SEDIMENT CONTROL DETAILS

C-05



NO.	DATE	DESCRIPTION
R1	1.17.19	PER SERVAD COMMENTS
R2		
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-OSITE.dwg
SCALE:	AS SHOWN

OVERALL SITE PLAN

C-06

SITE DATA TABLE:

LAND USE TABLE:	EXISTING	PERCENT %	PROPOSED	PERCENT %
BUILDING	0 AC.	0%	3.60 AC.	18%
PAVEMENT	0 AC.	0%	7.81 AC.	40%
OPEN SPACE	19.89 AC.	100%	5.45 AC.	27%
LAKE	0 AC.	0%	2.76 AC.	14%
DRY DETENTION	0 AC.	0%	0.27 AC.	1%
TOTAL	19.89 AC.	100%	19.89 AC.	100%

SETBACKS:

	REQUIRED	PROVIDED
FRONT (WEST)	25'	±105.1'
SIDE (NORTH)	6'	±80.3'
SIDE (SOUTH)	6'	±80.7'
REAR (EAST)	20'	±81.3'

LEGEND

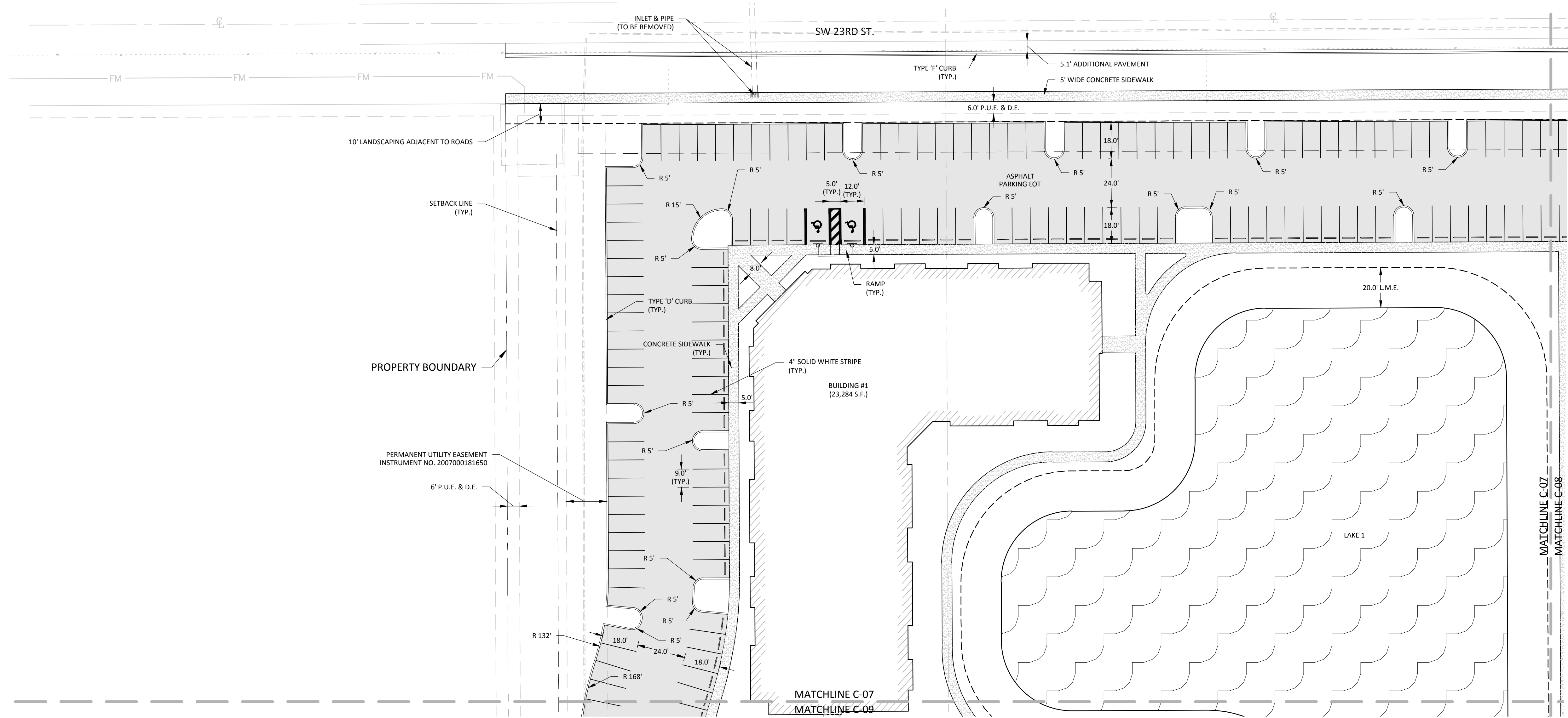
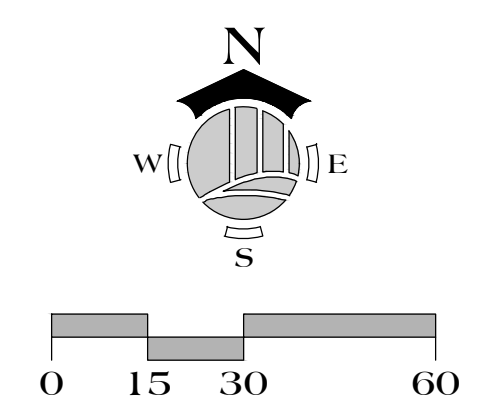
- ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- LAKE

NO.	DATE	DESCRIPTION
R1	1.17.19	PER SWAD COMMENTS
R2		
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-SITE.dwg
SCALE:	AS SHOWN

SITE PLAN

C-07



LEGEND

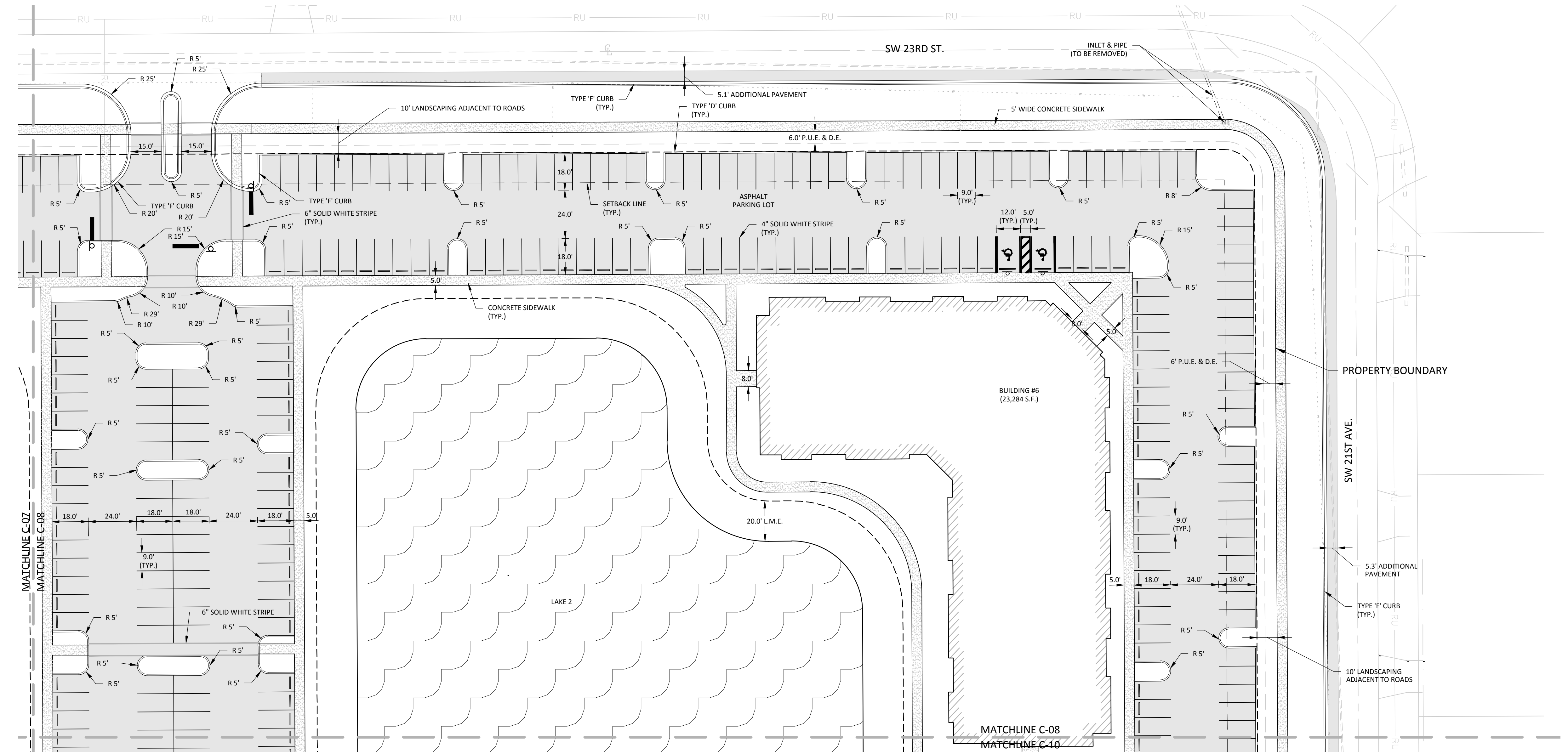
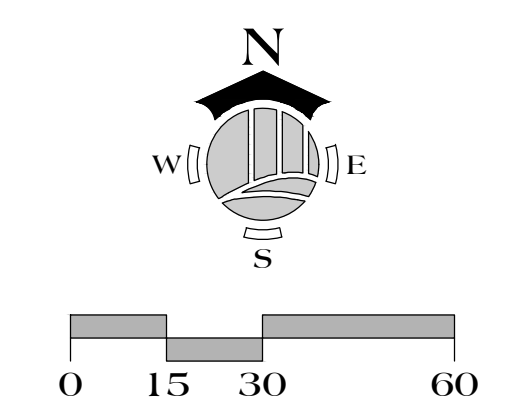
	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE PAVEMENT
	DRY DETENTION
	LAKE

NO.	DATE	DESCRIPTION
R1	1.17.19	PER SERVAD COMMENTS
R2		
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-SITE.dwg
SCALE:	AS SHOWN

SITE PLAN

C-08

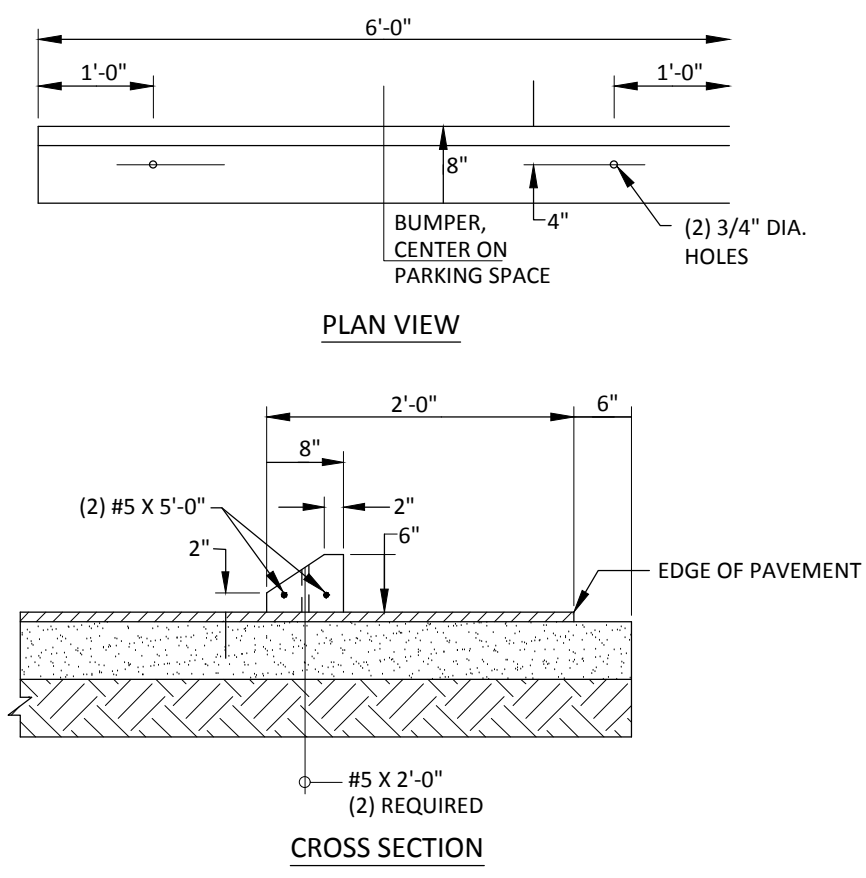
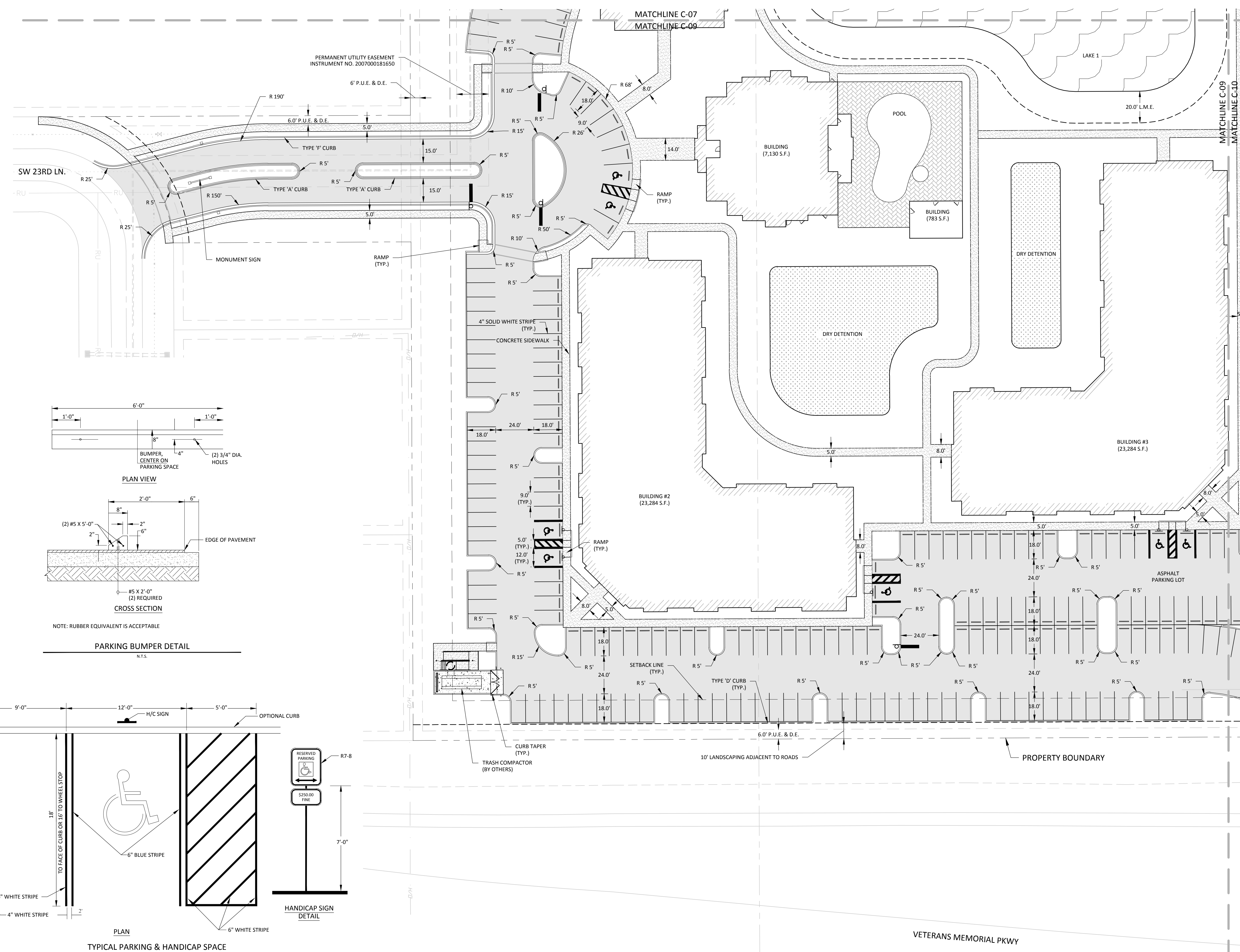
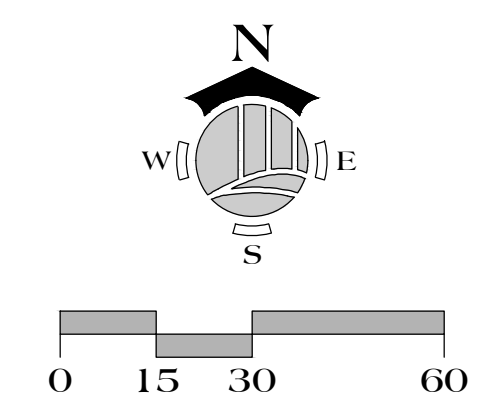


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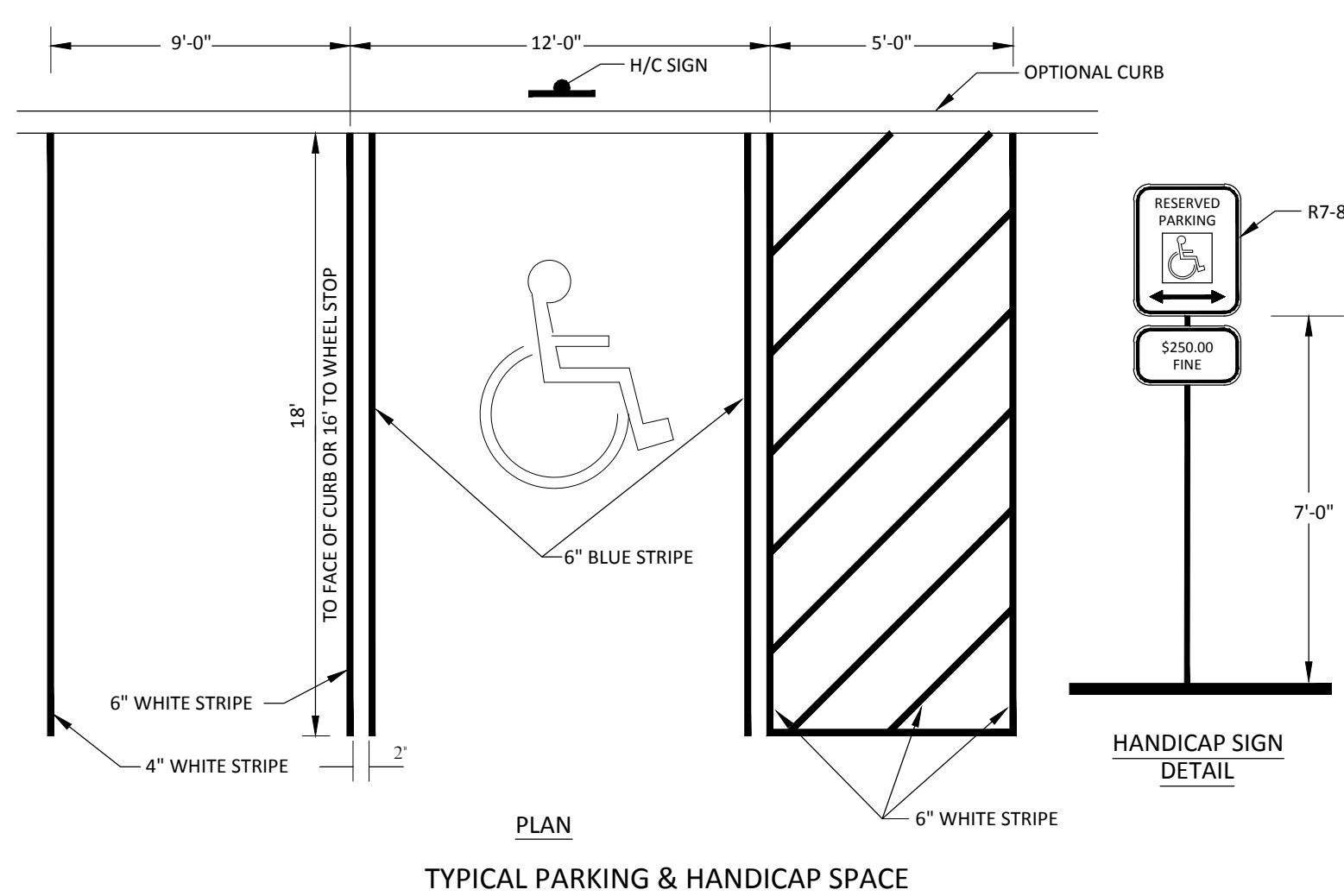
- ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- DRY DETENTION
- LAKE

NO.	DATE	DESCRIPTION
R1	1.17.19	PER SWAD COMMENTS
R2		
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-SITE.dwg
SCALE:	AS SHOWN

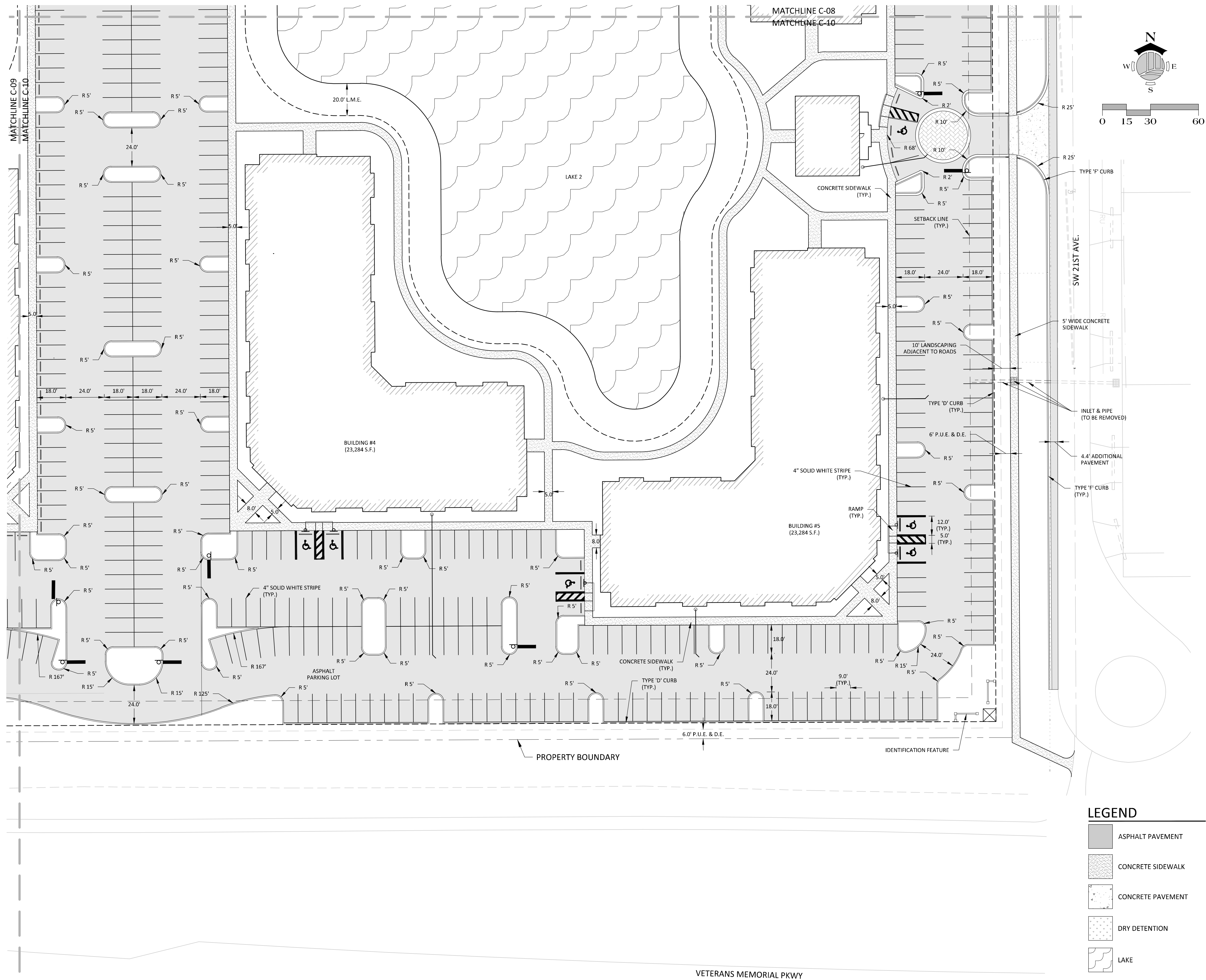


NOTE: RUBBER EQUIVALENT IS ACCEPTABLE



LEGEND

- ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- DRY DETENTION
- LAKE



NO.	DATE	DESCRIPTION
R1	1-17-19	PER SEWARD COMMENTS
R2		
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-SITE.dwg
SCALE:	AS SHOWN

SITE PLAN

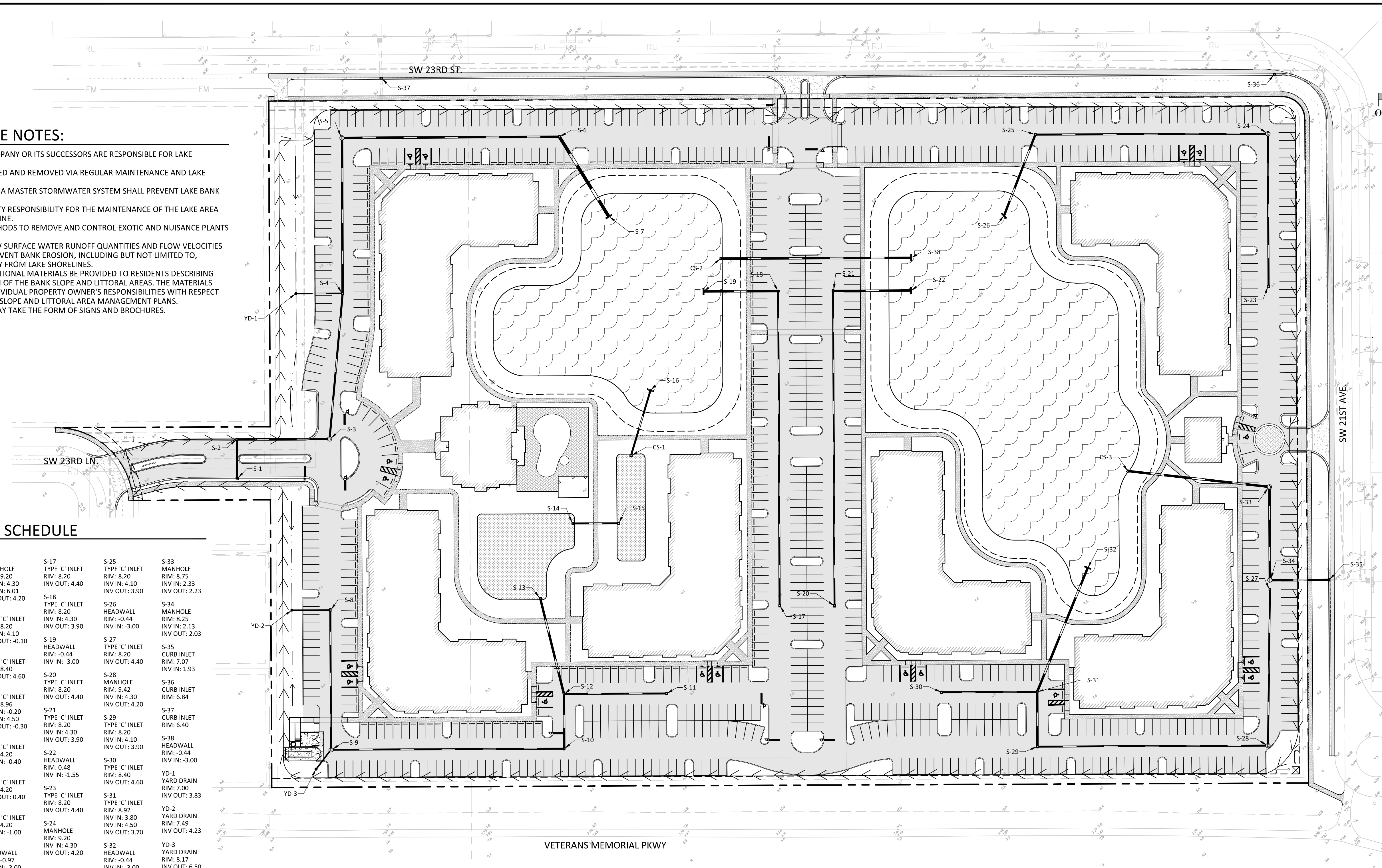
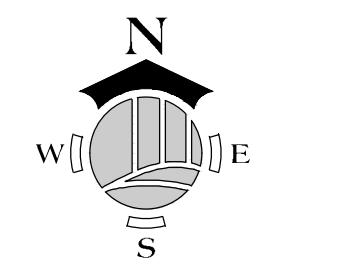
C-10

- LEGEND**
- ASPHALT PAVEMENT
 - CONCRETE SIDEWALK
 - CONCRETE PAVEMENT
 - DRY DETENTION
 - LAKE

NO.	DATE	DESCRIPTION
1	1-17-19	PER SFWM COMMENTS
2	2-5-19	PER SFWM COMMENTS

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-OPGD.dwg
SCALE:	AS SHOWN

OVERALL PAVING, GRADING & DRAINAGE PLAN



LAKE MAINTENANCE NOTES:

- ZIMMER DEVELOPMENT COMPANY OR ITS SUCCESSORS ARE RESPONSIBLE FOR LAKE MAINTENANCE.
- EXOTICS SHALL BE CONTROLLED AND REMOVED VIA REGULAR MAINTENANCE AND LAKE MAINTENANCE PROGRAM.
- SURFACE WATER RUNOFF VIA MASTER STORMWATER SYSTEM SHALL PREVENT LAKE BANK EROSION.
- IDENTIFICATION OF THE ENTITY RESPONSIBILITY FOR THE MAINTENANCE OF THE LAKE AREA INCLUDING THE LAKE SHORELINE.
- IDENTIFICATION OF THE METHODS TO REMOVE AND CONTROL EXOTIC AND NUISANCE PLANTS IN PERPETUITY.
- DEMONSTRATION AS TO HOW SURFACE WATER RUNOFF QUANTITIES AND FLOW VELOCITIES WILL BE CONTROLLED TO PREVENT BANK EROSION, INCLUDING BUT NOT LIMITED TO, ROUTING ROOF DRAINS AWAY FROM LAKE SHORELINES.
- REQUIREMENTS THAT EDUCATIONAL MATERIALS BE PROVIDED TO RESIDENTS DESCRIBING THE PURPOSE AND FUNCTION OF THE BANK SLOPE AND LITTORAL AREAS. THE MATERIALS MUST ALSO EXPLAIN THE INDIVIDUAL PROPERTY OWNER'S RESPONSIBILITIES WITH RESPECT TO COMPLIANCE WITH BANK SLOPE AND LITTORAL AREA MANAGEMENT PLANS. EDUCATIONAL MATERIALS MAY TAKE THE FORM OF SIGNS AND BROCHURES.

STRUCTURE SCHEDULE

S-1 CURB INLET RIM: 8.20 INV OUT: 4.40	S-9 MANHOLE RIM: 9.20 INV IN: 4.30 INV OUT: 6.01	S-17 TYPE 'C' INLET RIM: 8.20 INV OUT: 4.40	S-25 TYPE 'C' INLET RIM: 8.20 INV IN: 4.10 INV OUT: 3.90	S-33 MANHOLE RIM: 8.75 INV IN: 2.33 INV OUT: 2.23
S-2 CURB INLET RIM: 8.20 INV IN: 4.30 INV OUT: 4.20	S-10 TYPE 'C' INLET RIM: 8.20 INV IN: 4.10 INV OUT: -0.10	S-18 TYPE 'C' INLET RIM: 8.20 INV OUT: 3.90	S-26 HEADWALL RIM: 8.20 INV IN: -3.00	S-34 MANHOLE RIM: 8.25 INV IN: 2.13 INV OUT: 2.03
S-3 MANHOLE RIM: 8.74 INV IN: 4.10 INV OUT: 4.00	S-11 TYPE 'C' INLET RIM: 8.40 INV OUT: 4.60	S-19 HEADWALL RIM: 0.44 INV IN: -3.00	S-27 TYPE 'C' INLET RIM: 8.20 INV OUT: 4.40	S-35 CURB INLET RIM: 7.07 INV IN: 1.93
S-4 TYPE 'C' INLET RIM: 8.20 INV IN: 3.90 INV OUT: 3.80	S-12 TYPE 'C' INLET RIM: 8.96 INV IN: -0.20 INV OUT: -0.30	S-20 TYPE 'C' INLET RIM: 8.20 INV IN: 4.30 INV OUT: 3.90	S-28 MANHOLE RIM: 9.42 INV IN: 4.30 INV OUT: 4.20	S-36 CURB INLET RIM: 6.84
S-5 MANHOLE RIM: 9.20 INV IN: 3.70 INV OUT: 3.60	S-13 TYPE 'C' INLET RIM: 4.20 INV IN: -0.40	S-21 TYPE 'C' INLET RIM: 8.20 INV IN: 4.30 INV OUT: 3.90	S-29 TYPE 'C' INLET RIM: 8.20 INV IN: 4.10 INV OUT: 3.90	S-37 CURB INLET RIM: 6.40
S-6 TYPE 'C' INLET RIM: 8.20 INV IN: 3.50 INV OUT: 2.70	S-14 TYPE 'C' INLET RIM: 4.20 INV OUT: 0.40	S-22 HEADWALL RIM: 0.48 INV IN: -1.55	S-30 TYPE 'C' INLET RIM: 8.40 INV OUT: 4.60	S-38 HEADWALL RIM: -0.44 INV IN: -3.00
S-7 HEADWALL RIM: 0.58 INV IN: -3.00	S-15 TYPE 'C' INLET RIM: 4.20 INV IN: -1.00	S-23 TYPE 'C' INLET RIM: 8.20 INV OUT: 4.40	S-31 TYPE 'C' INLET RIM: 8.92 INV IN: 3.80 INV OUT: 4.50 INV OUT: 4.23	YD-1 YARD DRAIN RIM: 7.00 INV OUT: 3.83
S-8 TYPE 'C' INLET RIM: 8.20 INV IN: 4.02 INV OUT: 4.40	S-16 HEADWALL RIM: -0.97 INV IN: -3.00	S-24 MANHOLE RIM: 9.20 INV IN: 4.30 INV OUT: 4.20	S-32 HEADWALL RIM: -0.44 INV IN: -3.00	YD-2 YARD DRAIN RIM: 7.49 INV OUT: 4.23
				YD-3 YARD DRAIN RIM: 8.17 INV OUT: 6.50

WATER QUALITY TREATMENT SUMMARY:

POND DRY 1 & 2 CWE (FT)	3.20 <POND CONTROL ELEVATION
POND DRY 1 & 2 BOTTOM EL. (FT)	4.20 <POND DRY 1 & 2
SFWMDBOR FOR WET DETENTION TREATMENT, OPTION 1	
TREAT. AREA #1 (AC)	4.70 <TOTAL BASIN AREA
TREAT. DEPTH #1 (IN)	1.00 <PER ERP APPLICANT'S HANDBOOK VOL. II, 4.2.1(A)(1)
TREAT. VOL. #1 (AC-FT)	0.392 <VOL. FOR FIRST 1" RUNOFF
SFWMDBOR FOR WET DETENTION TREATMENT, OPTION 2	
TREAT. AREA #2 (AC)	4.39 <SITE AREA - LAKE AREA
IMPERVIOUS PERCENTAGE	40.3% <PERCENTAGE OF IMPERVIOUSNESS, PER ERP INFORMATION MANUAL VOL. IV
TREAT. DEPTH #2 (IN)	1.01 <2.5" x IMPERVIOUS PERCENTAGE, PER ERP APPLICANT'S HANDBOOK VOL. II, 4.2.1(A)(1)
TREAT. VOL. #2 (AC-FT)	0.369 <VOL. FOR 2.5" RUNOFF FROM IMPERVIOUS SURFACE
REQUIRED TREATMENT VOLUME	
TREAT. VOL. (AC-FT)	0.392 <GREATER OF CALCULATED TREATMENT VOLUMES BASED ON AH VOL. II, 4.2.1.(A)(1)
REQ. TREAT. VOL. (AC-FT)	0.294 <REQUIRED TREATMENT VOLUME FOR DRY DETENTION BASED ON AH VOL. II, 4.2.1.(A)(2)
TREAT. EL. (FT)	5.17 <LOWEST ALLOWABLE OVERFLOW WEIR INV. EL.

WATER QUALITY TREATMENT SUMMARY:

POND WET 1 CWE (FT)	3.20 <POND CONTROL ELEVATION
SFWMDBOR FOR WET DETENTION TREATMENT, OPTION 1	
TREAT. AREA #1 (AC)	5.73 <TOTAL BASIN AREA
TREAT. DEPTH #1 (IN)	1.00 <PER ERP APPLICANT'S HANDBOOK VOL. II, 4.2.1(A)(1)
TREAT. VOL. #1 (AC-FT)	0.478 <VOL. FOR FIRST 1" RUNOFF
SFWMDBOR FOR WET DETENTION TREATMENT, OPTION 2	
TREAT. AREA #2 (AC)	4.27 <SITE AREA - LAKE AREA
IMPERVIOUS PERCENTAGE	39.5% <PERCENTAGE OF IMPERVIOUSNESS, PER ERP INFORMATION MANUAL VOL. IV
TREAT. DEPTH #2 (IN)	0.99 <2.5" x IMPERVIOUS PERCENTAGE, PER ERP APPLICANT'S HANDBOOK VOL. II, 4.2.1(A)(1)
TREAT. VOL. #2 (AC-FT)	0.351 <VOL. FOR 2.5" RUNOFF FROM IMPERVIOUS SURFACE
REQUIRED TREATMENT VOLUME	
REQ. TREAT. VOL. (AC-FT)	0.478 <REQUIRED TREATMENT VOLUME FOR DRY DETENTION BASED ON AH VOL. II, 4.2.1.(A)(2)
TREAT. EL. (FT)	3.67 <LOWEST ALLOWABLE OVERFLOW WEIR INV. EL.

WATER QUALITY TREATMENT SUMMARY:

POND WET 1 CWE (FT)	3.20 <POND CONTROL ELEVATION
SFWMDBOR FOR WET DETENTION TREATMENT, OPTION 1	
TREAT. AREA #1 (AC)	19.89 <TOTAL BASIN AREA
TREAT. DEPTH #1 (IN)	9.45 <PER ERP APPLICANT'S HANDBOOK VOL. II, 4.2.1(A)(1)
TREAT. VOL. #1 (AC-FT)	0.787 <VOL. FOR FIRST 1" RUNOFF
SFWMDBOR FOR WET DETENTION TREATMENT, OPTION 2	
TREAT. AREA #2 (AC)	7.06 <SITE AREA - LAKE AREA
IMPERVIOUS PERCENTAGE	38.6% <PERCENTAGE OF IMPERVIOUSNESS, PER ERP INFORMATION MANUAL VOL. IV
TREAT. DEPTH #2 (IN)	0.97 <2.5" x IMPERVIOUS PERCENTAGE, PER ERP APPLICANT'S HANDBOOK VOL. II, 4.2.1(A)(1)
TREAT. VOL. #2 (AC-FT)	0.568 <VOL. FOR 2.5" RUNOFF FROM IMPERVIOUS SURFACE
REQUIRED TREATMENT VOLUME	
REQ. TREAT. VOL. (AC-FT)	0.787 <REQUIRED TREATMENT VOLUME FOR DRY DETENTION BASED ON AH VOL. II, 4.2.1.(A)(2)
TREAT. EL. (FT)	3.65 <LOWEST ALLOWABLE OVERFLOW WEIR INV. EL.

NOTES:
 ON-SITE DRAINAGE MAINTENANCE TO BE PERFORMED BY OWNER, AND OR SUCCESSOR

DESIGN TABLE:

	NGVD
WET SEASON WATER TABLE ELEV.	= 3.2
MINIMUM FINISHED FLOOR ELEV.	= 10.2
MINIMUM PARKING ELEV.	= 8.2
MINIMUM BERM ELEV.	= 8.7

FEMA FLOOD ELEV. - ZONE AE-7.0 & ZONE AE-8 (NAVD)

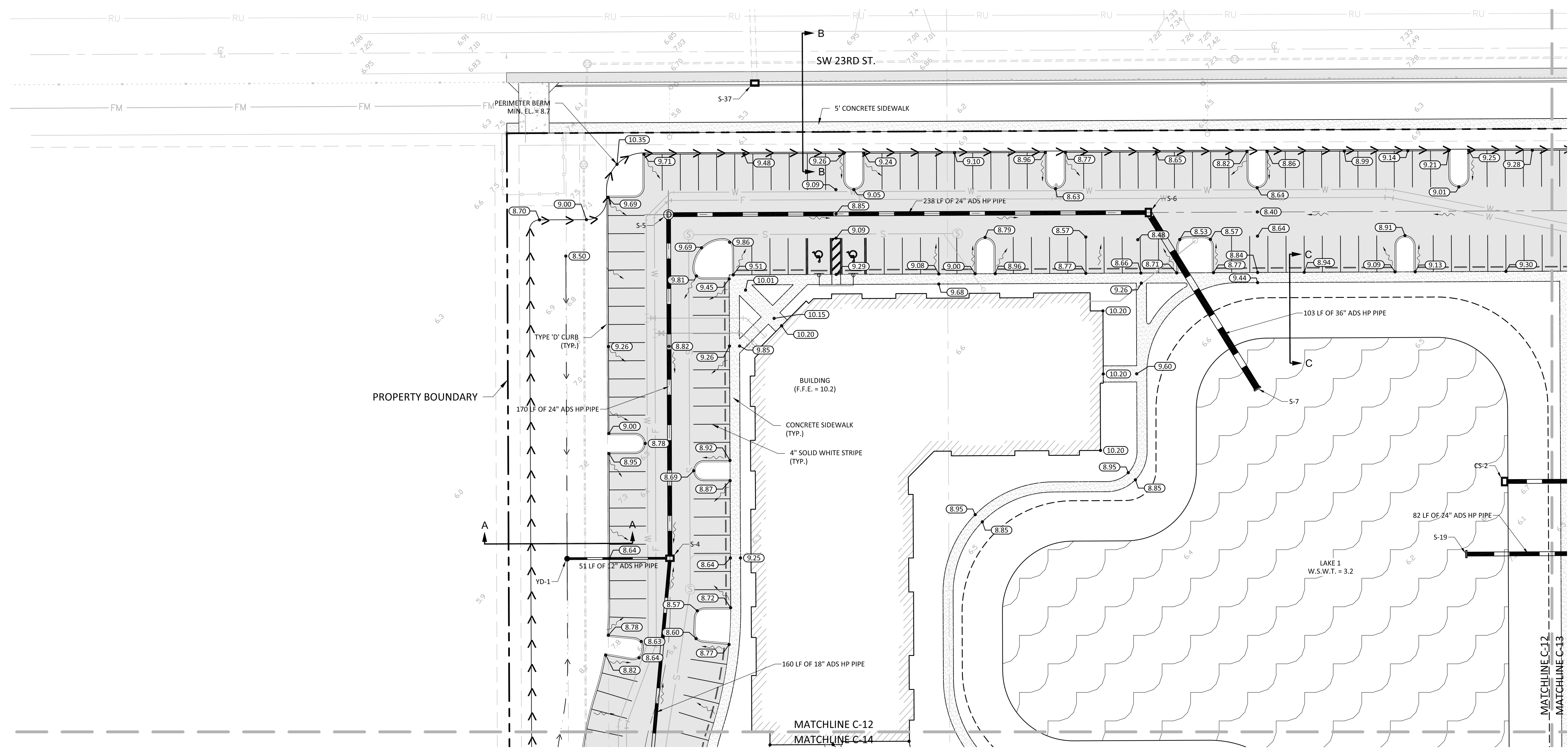
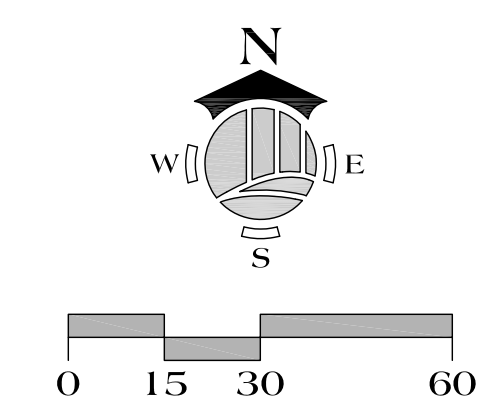
LEGEND

- ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- DRY DETENTION
- LAKE

NO.	DATE	DESCRIPTION
R1	1/17/19	PER SERVAD COMMENTS
R2	2/19/19	PER SERVAD COMMENTS
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-PGD.dwg
SCALE:	AS SHOWN

**PAVING,
 GRADING &
 DRAINAGE PLAN**



STRUCTURE SCHEDULE

S-4 TYPE 'C' INLET RIM: 8.20 INV IN: 3.90 INV IN: 3.58 INV OUT: 3.80	S-5 MANHOLE RIM: 9.20 INV IN: 3.70 INV OUT: 3.60	S-6 TYPE 'C' INLET RIM: 8.20 INV IN: 3.50 INV OUT: 2.70	S-7 HEADWALL RIM: 0.58 INV IN: -3.00	S-19 HEADWALL RIM: -0.44 INV IN: -3.00	YD-1 YARD DRAIN RIM: 7.00 INV OUT: 3.83	S-37 CURB INLET RIM: 6.40
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DESIGN TABLE:

WET SEASON WATER TABLE ELEV.	= 3.2
MINIMUM FINISHED FLOOR ELEV.	= 10.2
MINIMUM PARKING FLOOR ELEV.	= 8.2
MINIMUM BERM ELEV.	= 8.7
FEMA FLOOD ELEV. - ZONE AE-7.0 & ZONE AE-8 (NAVD)	

NOTE:

1. ALL PAVEMENT GRADES ARE EDGE OF PAVEMENT GRADES. REFER TO CURB DETAILS FOR BACK OF CURB GRADE.
2. ON-SITE DRAINAGE MAINTENANCE TO BE PERFORMED BY OWNER, AND OR SUCCESSOR.

LEGEND

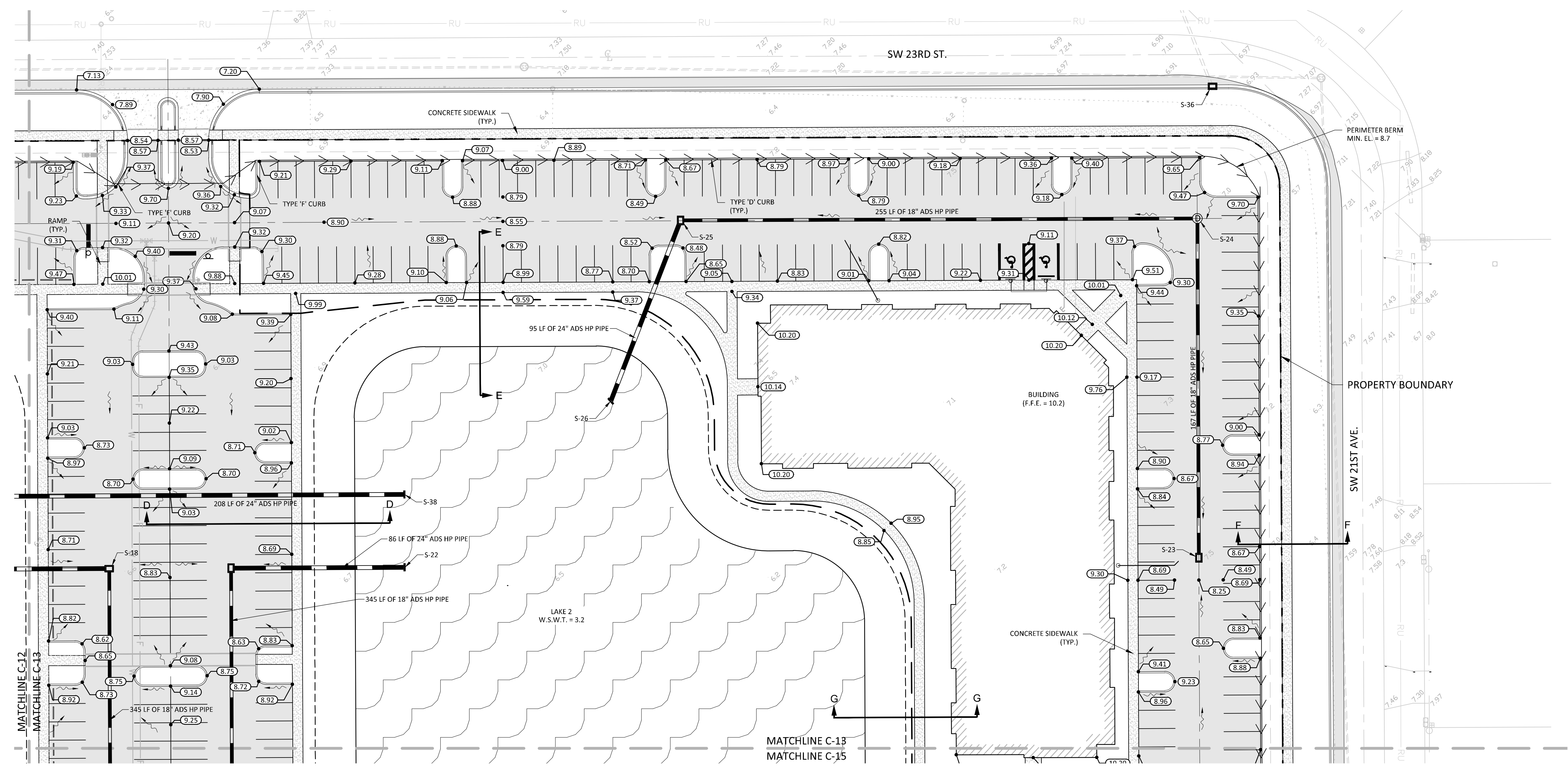
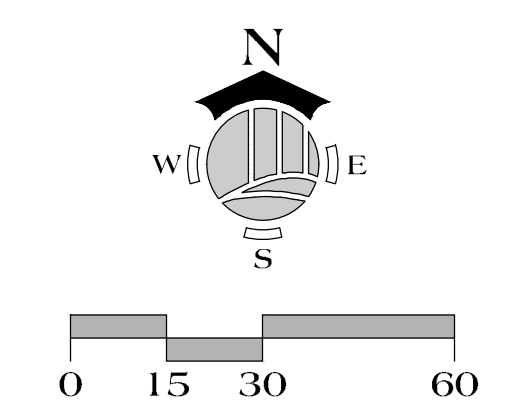
- ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- DRY DETENTION
- LAKE

NO.	DATE	DESCRIPTION
R1	1-17-19	PER SEWARD COMMENTS
R2	2-5-19	PER SEWARD COMMENTS
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-PGD.dwg
SCALE:	AS SHOWN

**PAVING
 GRADING &
 DRAINAGE PLAN**

C-13



STRUCTURE SCHEDULE

S-38 TYPE 'C' INLET RIM: 8.20 INV IN: 4.30 INV OUT: 3.90	S-23 TYPE 'C' INLET RIM: 8.20 INV OUT: 4.40	S-36 HEADWALL RIM: -0.44 INV IN: -3.00
S-21 TYPE 'C' INLET RIM: 8.20 INV IN: 4.30 INV OUT: 3.90	S-24 MANHOLE RIM: 9.20 INV IN: 4.30 INV OUT: 4.20	S-36 CURB INLET RIM: 6.84
S-22 HEADWALL RIM: 0.48 INV IN: -1.55	S-25 TYPE 'C' INLET RIM: 8.20 INV IN: 4.10 INV OUT: 3.90	S-38 HEADWALL RIM: -0.44 INV IN: -3.00

DESIGN TABLE:

	NGVD
WET SEASON WATER TABLE ELEV.	= 3.2
MINIMUM FINISHED FLOOR ELEV.	= 10.2
MINIMUM PARKING ELEV.	= 8.2
MINIMUM BERM ELEV.	= 8.7

FEMA FLOOD ELEV. - ZONE AE-7.0 & ZONE AE-8 (NAVD)

LEGEND

- ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- DRY DETENTION
- LAKE

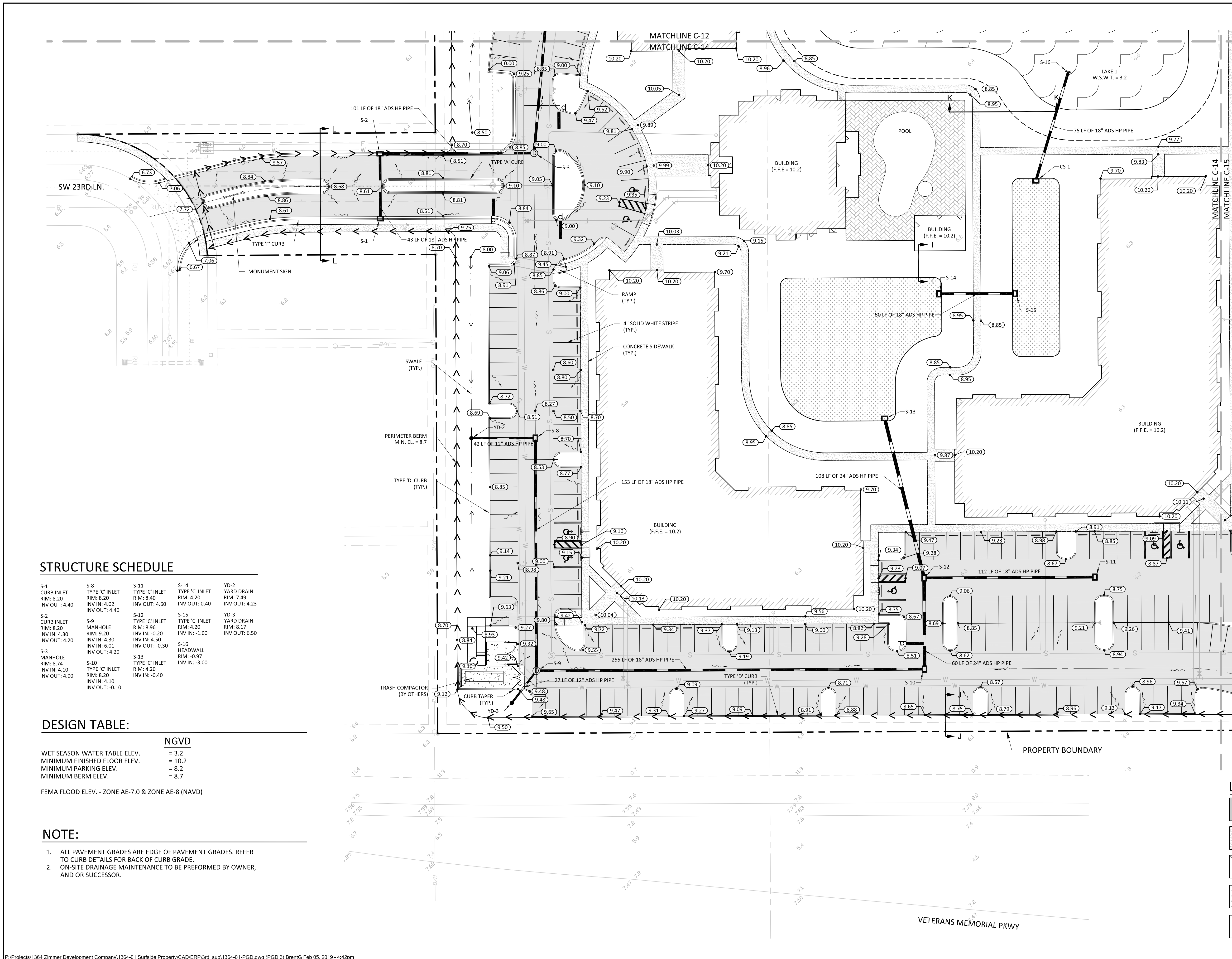
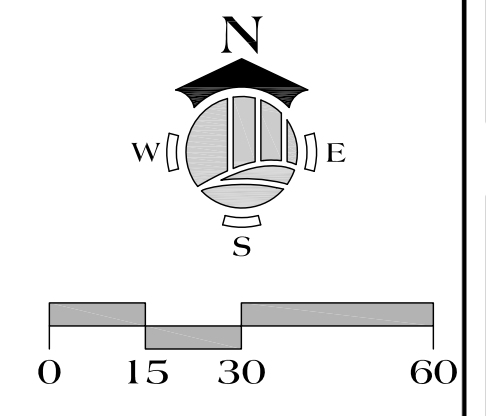
NOTE:

- ALL PAVEMENT GRADES ARE EDGE OF PAVEMENT GRADES. REFER TO CURB DETAILS FOR BACK OF CURB GRADE.
- ON-SITE DRAINAGE MAINTENANCE TO BE PERFORMED BY OWNER, AND OR SUCCESSOR.

NO.	DATE	DESCRIPTION
R1	1/17/19	PER SEWARD COMMENTS
R2	2/19/19	PER SEWARD COMMENTS
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-PGD.dwg
SCALE:	AS SHOWN

**PAVING,
 GRADING &
 DRAINAGE PLAN**



STRUCTURE SCHEDULE

S-1 CURB INLET RIM: 8.20 INV OUT: 4.40	S-8 TYPE 'C' INLET RIM: 8.40 INV IN: 4.02 INV OUT: 4.40	S-11 TYPE 'C' INLET RIM: 8.40 INV OUT: 4.60	S-14 TYPE 'C' INLET RIM: 4.20 INV OUT: 0.40	YD-2 YARD DRAIN RIM: 7.49 INV OUT: 4.23
S-2 CURB INLET RIM: 8.20 INV IN: 4.30 INV OUT: 4.20	S-9 MANHOLE RIM: 9.20 INV IN: 4.30 INV IN: 6.01 INV OUT: 4.20	S-12 TYPE 'C' INLET RIM: 8.96 INV IN: 4.50 INV OUT: -0.30	S-15 TYPE 'C' INLET RIM: 4.20 INV IN: -1.00	YD-3 YARD DRAIN RIM: 8.17 INV OUT: 6.50
S-3 MANHOLE RIM: 8.74 INV IN: 4.10 INV OUT: 4.00	S-10 TYPE 'C' INLET RIM: 8.20 INV IN: 4.10 INV OUT: -0.10	S-13 TYPE 'C' INLET RIM: 4.20 INV IN: -0.40	S-16 HEADWALL RIM: -0.97 INV IN: -3.00	

DESIGN TABLE:

	NGVD
WET SEASON WATER TABLE ELEV.	= 3.2
MINIMUM FINISHED FLOOR ELEV.	= 10.2
MINIMUM PARKING ELEV.	= 8.2
MINIMUM BERM ELEV.	= 8.7

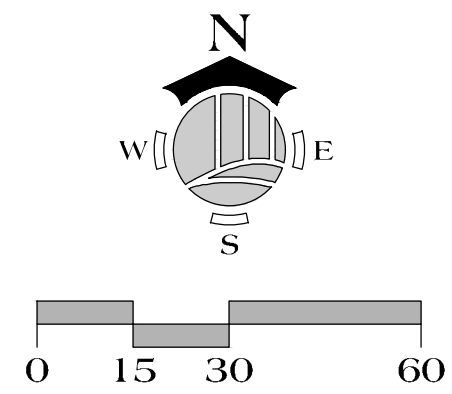
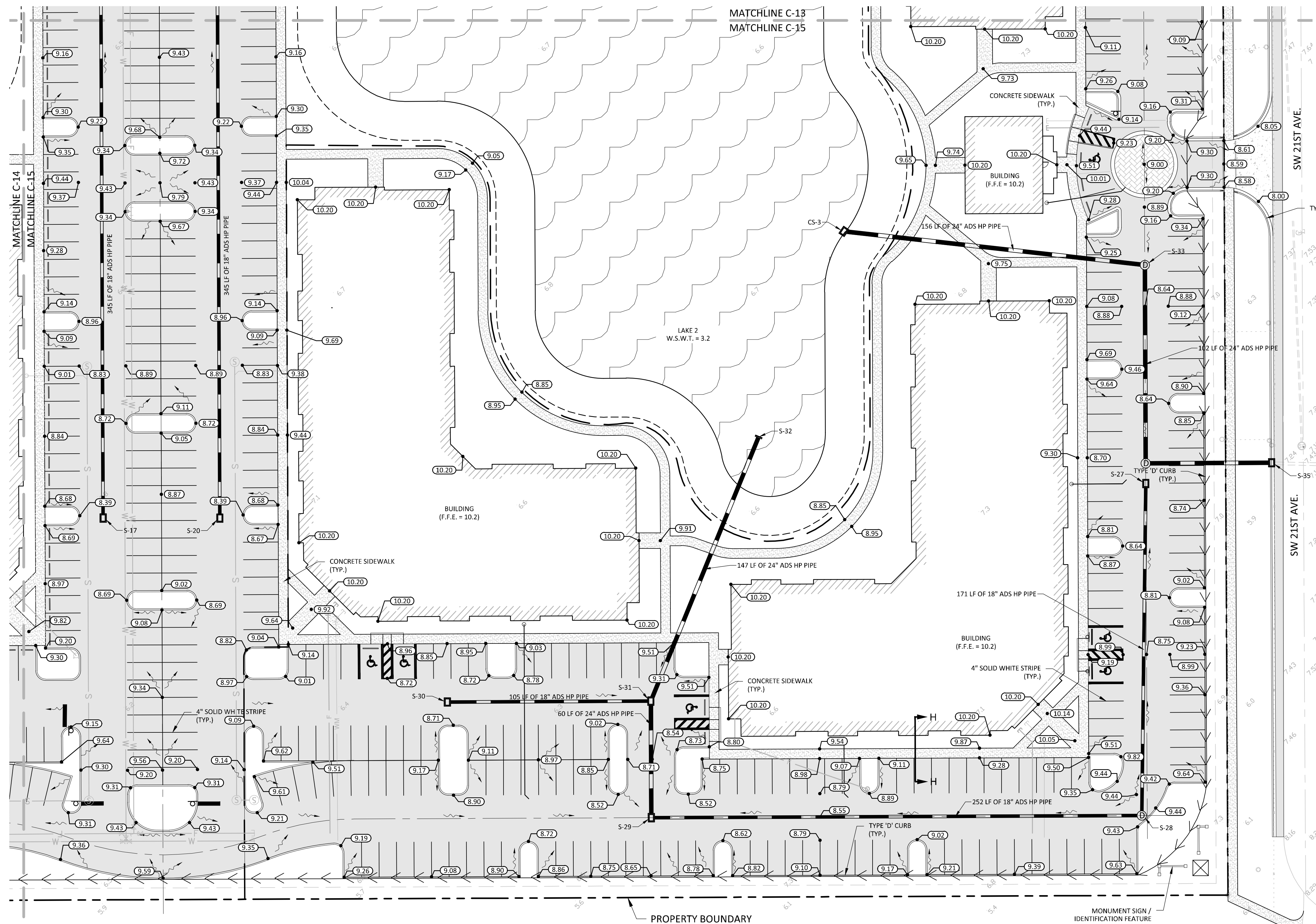
FEMA FLOOD ELEV. - ZONE AE-7.0 & ZONE AE-8 (NAVD)

NOTE:

- ALL PAVEMENT GRADES ARE EDGE OF PAVEMENT GRADES. REFER TO CURB DETAILS FOR BACK OF CURB GRADE.
- ON-SITE DRAINAGE MAINTENANCE TO BE PERFORMED BY OWNER, AND OR SUCCESSOR.

LEGEND

	ASPHALT PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE PAVEMENT
	DRY DETENTION
	LAKE



NO.	DATE	DESCRIPTION
R1	1-17-19	PER SEVAD COMMENTS
R2	2-5-19	PER SEVAD COMMENTS
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.	1364-01
FILE NO.	1364-01-PGD.dwg
SCALE:	AS SHOWN

PAVING, GRADING & DRAINAGE PLAN

STRUCTURE SCHEDULE

S-17 TYPE 'C' INLET RIM: 8.20 INV OUT: 4.40	S-28 MANHOLE RIM: 9.42 INV IN: 4.30 INV OUT: 4.20	S-31 TYPE 'C' INLET RIM: 8.92 INV IN: 3.80 INV OUT: 4.50	S-34 MANHOLE RIM: 8.25 INV IN: 2.13 INV OUT: 2.03
S-20 TYPE 'C' INLET RIM: 8.20 INV OUT: 4.40	S-29 TYPE 'C' INLET RIM: 8.20 INV IN: 4.10 INV OUT: 3.90	S-32 HEADWALL RIM: -0.44 INV IN: -3.00	S-35 CURB INLET RIM: 7.07 INV IN: 1.93
S-27 TYPE 'C' INLET RIM: 8.20 INV OUT: 4.40	S-30 TYPE 'C' INLET RIM: 8.40 INV OUT: 4.60	S-33 MANHOLE RIM: 8.75 INV IN: 2.33 INV OUT: 2.23	

DESIGN TABLE:

	NGVD
WET SEASON WATER TABLE ELEV.	= 3.2
MINIMUM FINISHED FLOOR ELEV.	= 10.2
MINIMUM PARKING ELEV.	= 8.2
MINIMUM BERM ELEV.	= 8.7

FEMA FLOOD ELEV. - ZONE AE-7.0 & ZONE AE-8 (NAVD)

NOTE:

1. ALL PAVEMENT GRADES ARE EDGE OF PAVEMENT GRADES. REFER TO CURB DETAILS FOR BACK OF CURB GRADE.
2. ON-SITE DRAINAGE MAINTENANCE TO BE PERFORMED BY OWNER, AND OR SUCCESSOR.

LEGEND

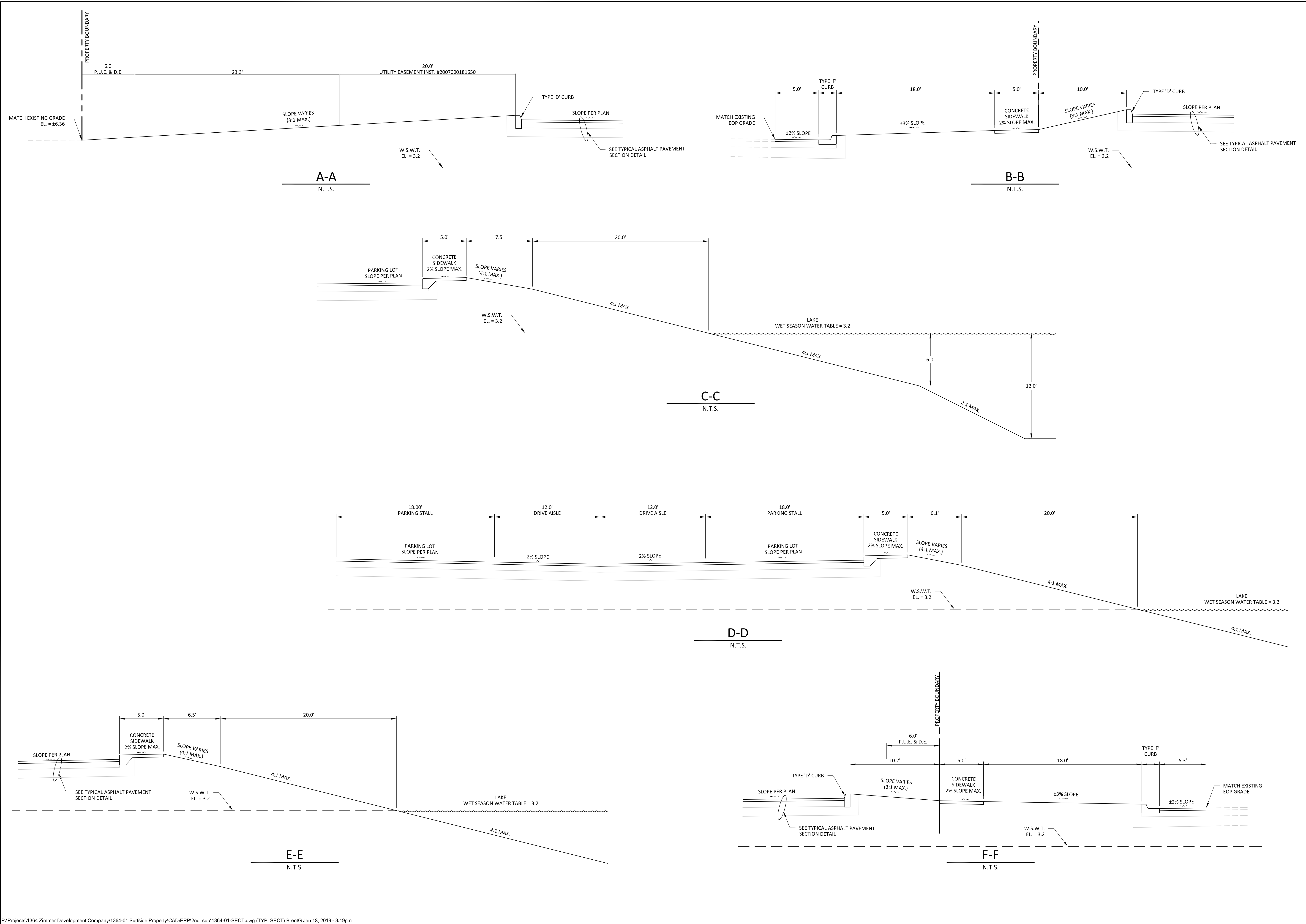
- ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- LAKE
- LAKE

NO.	DATE	DESCRIPTION
1	1-17-19	
2		
3		
4		
5		
6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-PGD.dwg
SCALE:	AS SHOWN

TYPICAL SECTIONS

C-16

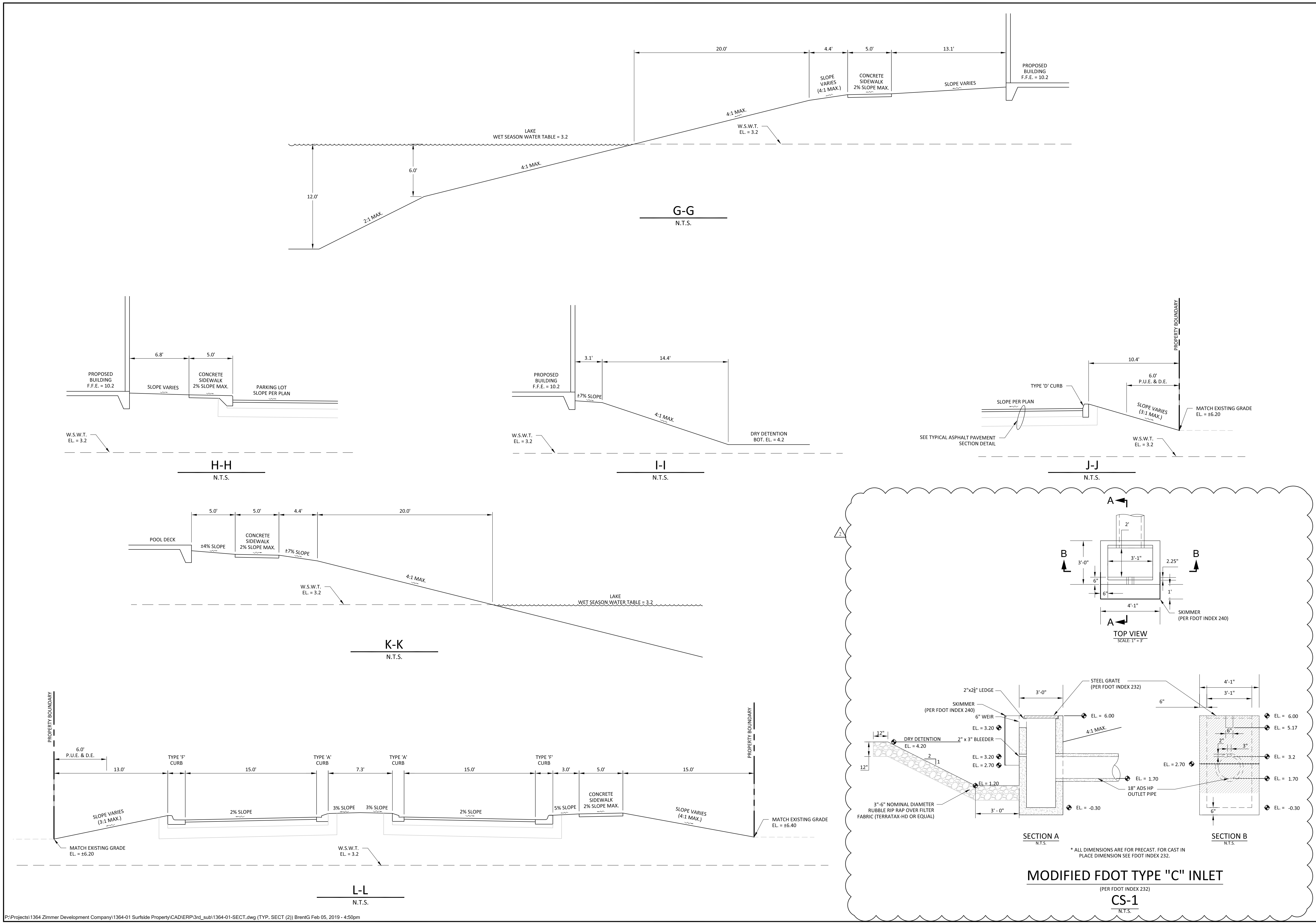


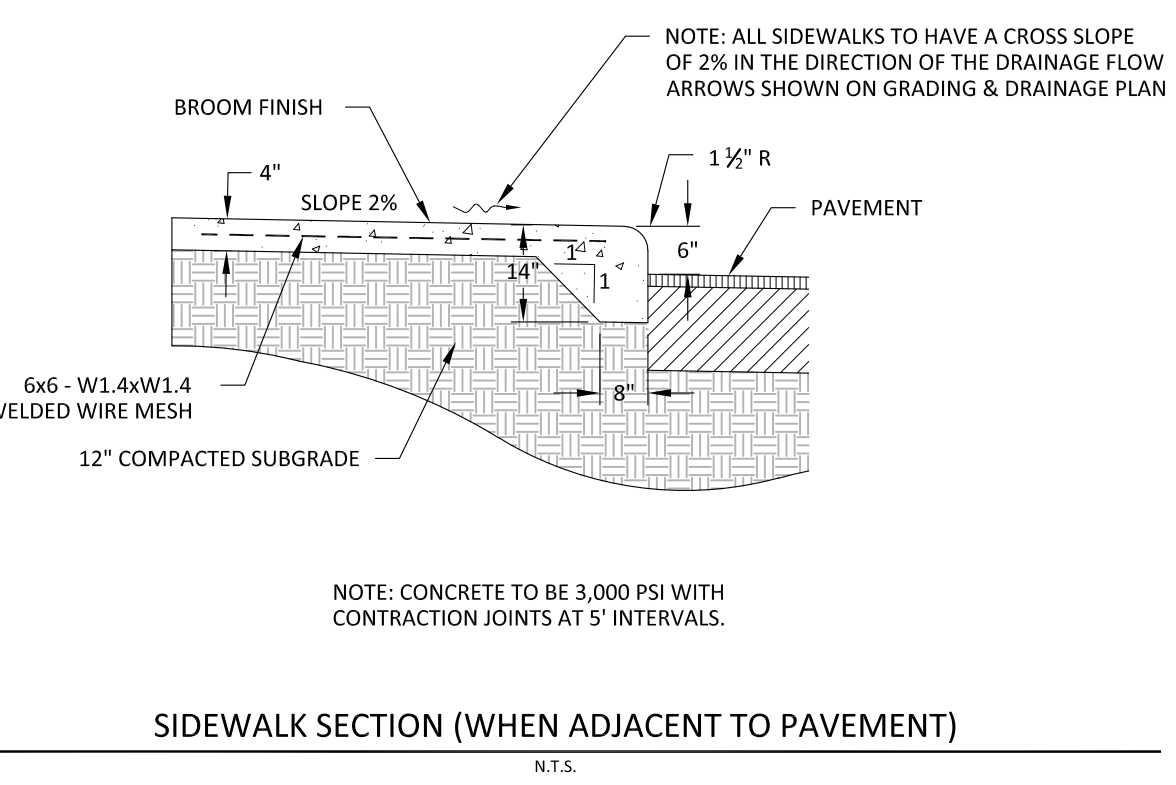
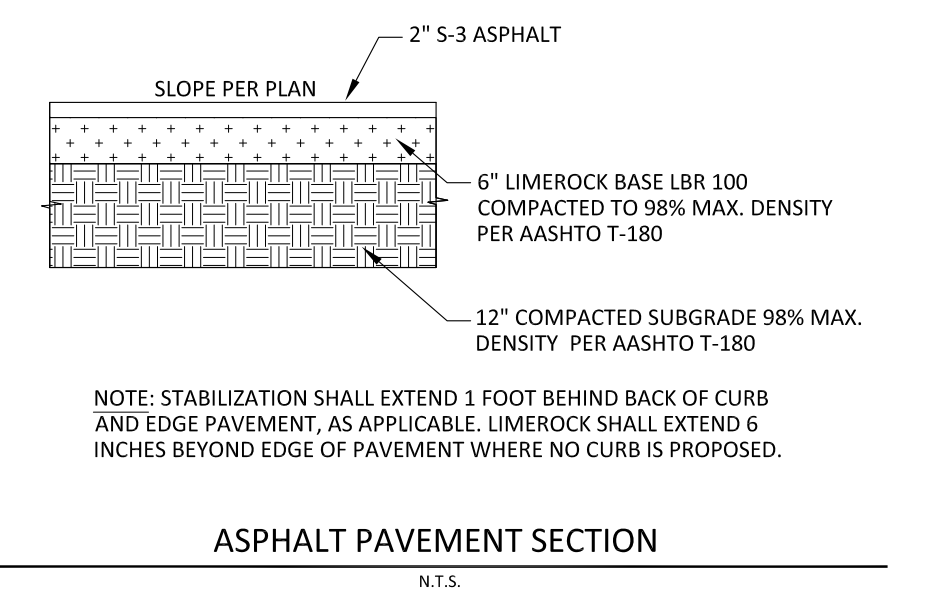
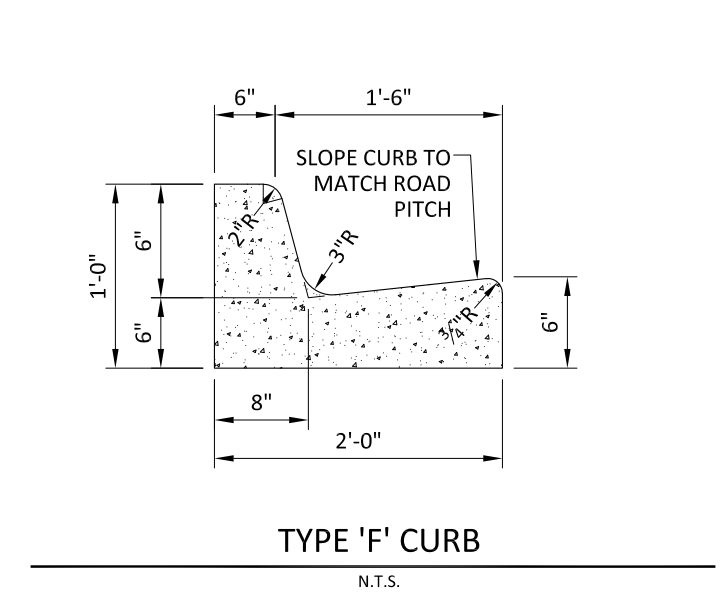
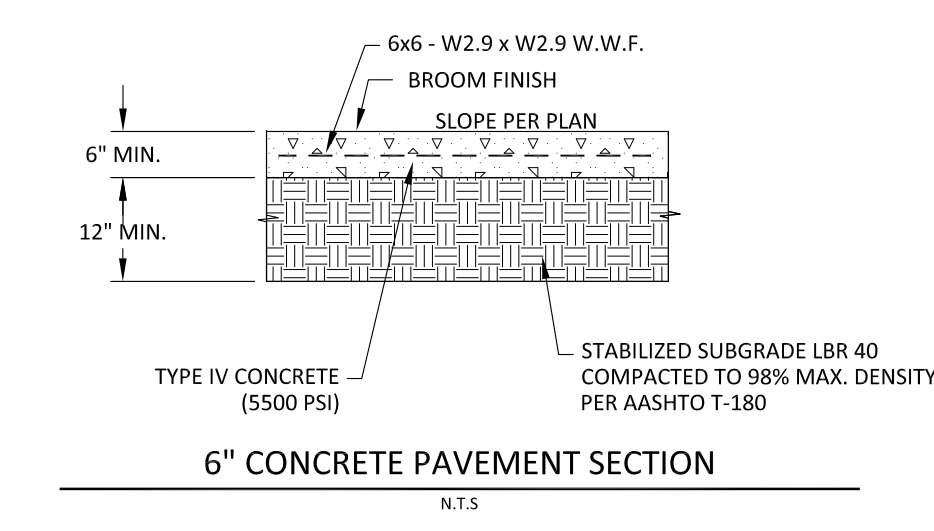
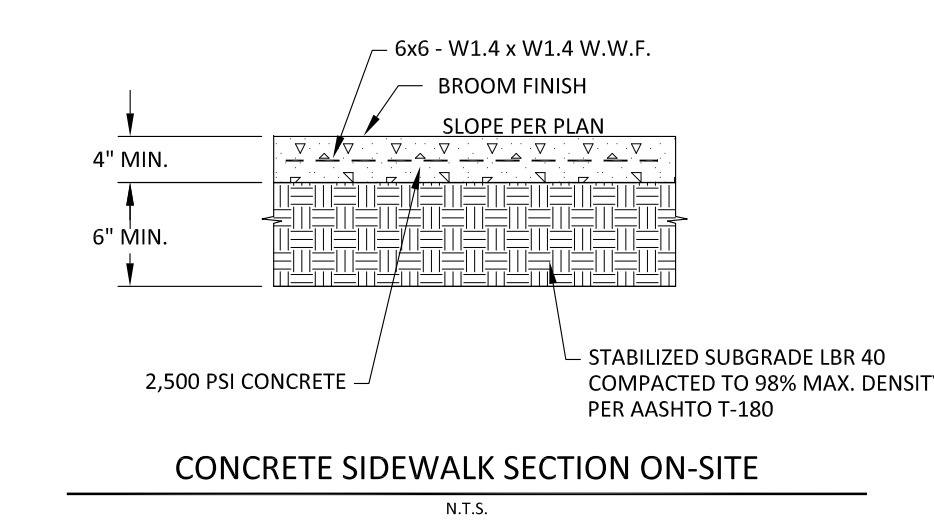
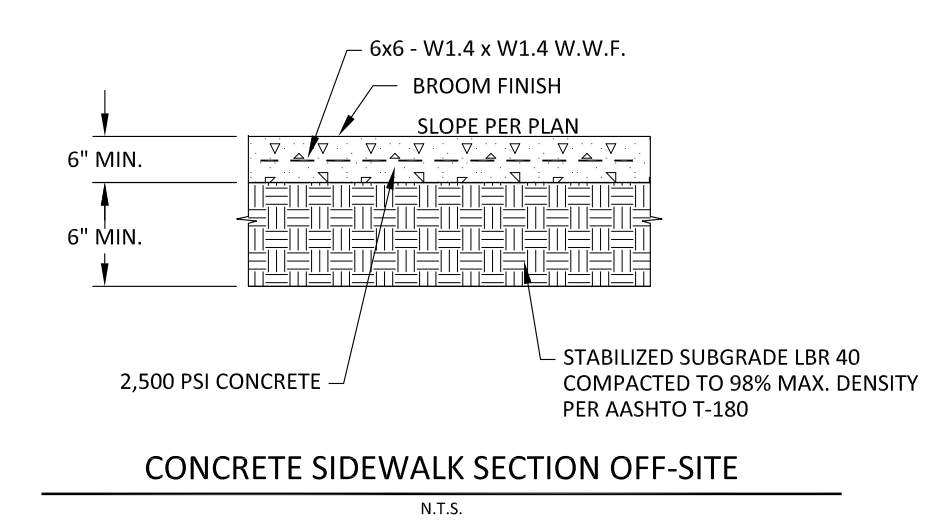
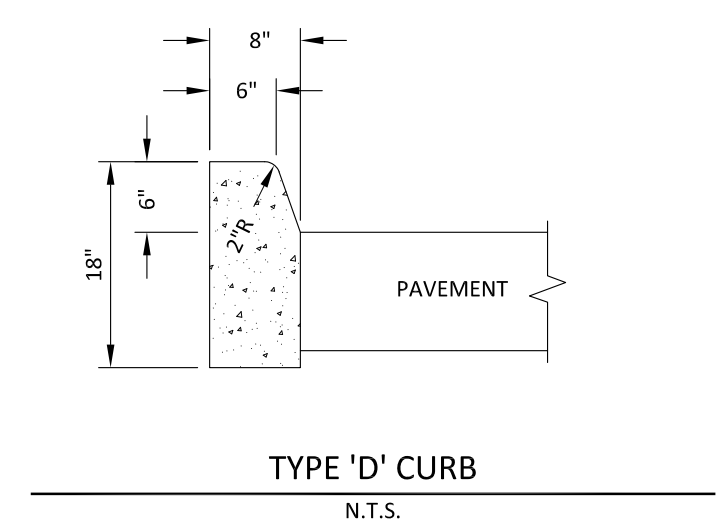
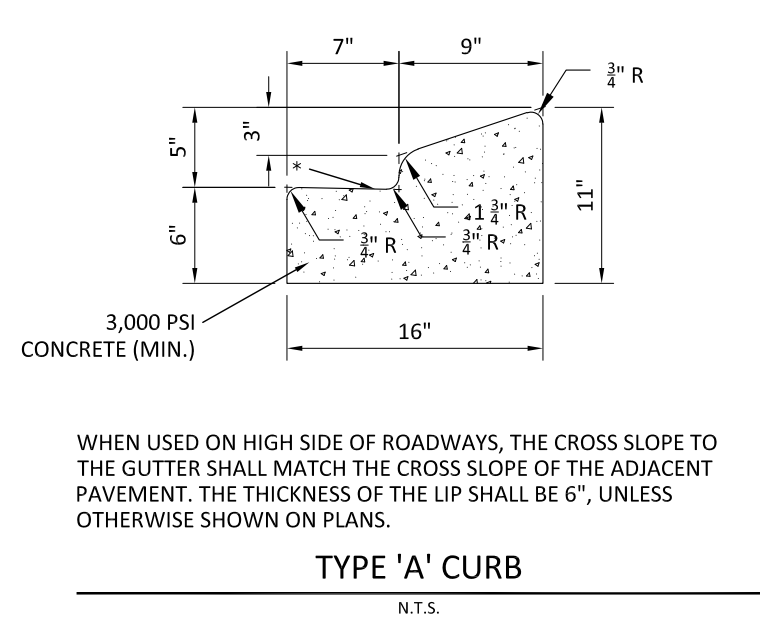
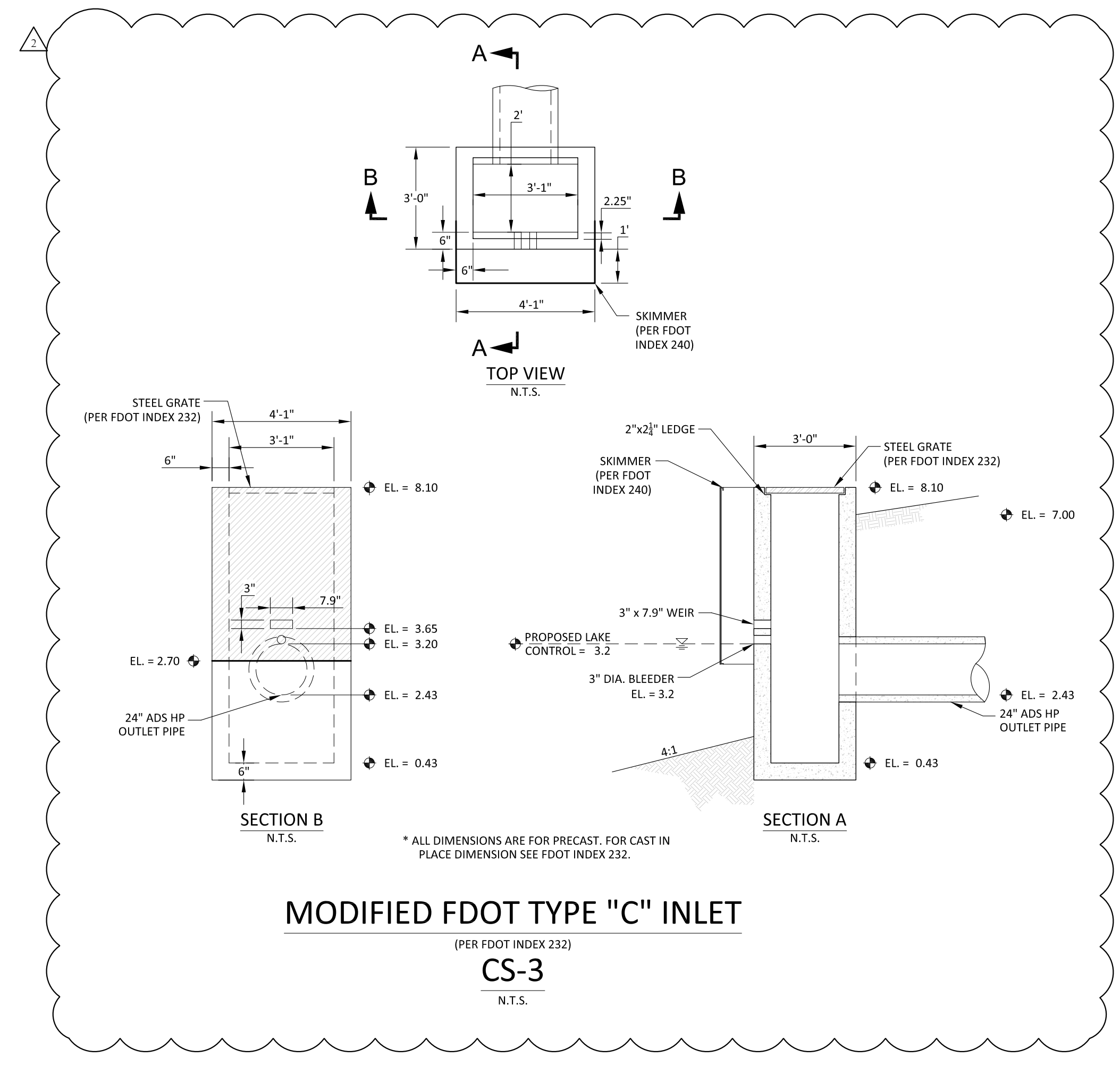
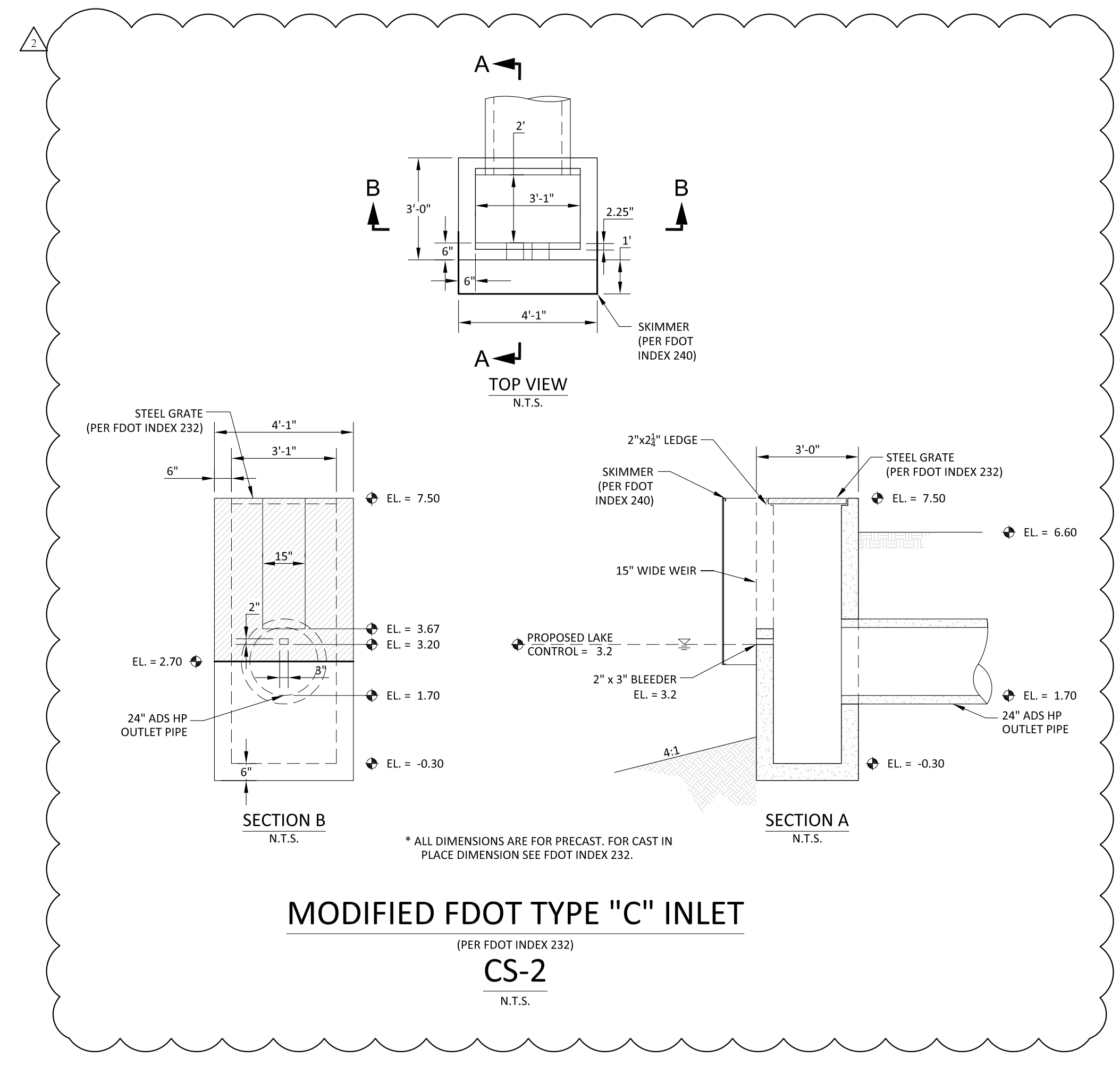
NO.	DATE	DESCRIPTION
R1	1/17/19	PER SEWARD COMMENTS
R2	2/5/19	PER SEWARD COMMENTS
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-PGD.dwg
SCALE:	AS SHOWN

TYPICAL SECTIONS

C-17





NO.	DATE	DESCRIPTION
R1	1/17/19	PER SEWARD COMMENTS
R2	2/2/19	PER SEWARD COMMENTS
R3		
R4		
R5		
R6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-SECT.dwg
SCALE:	AS SHOWN

TYPICAL
 SECTIONS &
 DETAILS

C-18

TYPE C
 Recommended Maximum Pipe Size:
 2'-0" Wall - 18" Pipe
 3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

TYPE D
 Recommended Maximum Pipe Size:
 3'-1" Wall - 24" Pipe
 4'-1" Wall - 36" Pipe

TYPE E
 Recommended Maximum Pipe Size:
 3'-0" Wall - 24" Pipe
 4'-0" Wall - 36" Pipe

WALL DEPTH	SCHEDULE	AREA (in ² /ft.)	MAX. SPACING BARS	WWF
0'-15"	A12	0.20	12"	8"
0'-10"	A6	0.20	6"	5"
10'-15"	A4	0.20	4"	3"
10'-15"	B5.5	0.24	5 1/2"	5"

WALL DEPTH	SCHEDULE	AREA (in ² /ft.)	MAX. SPACING BARS	WWF
0'-6"	A12	0.20	12"	8"
0'-7.5"	A6	0.20	6"	5"
7.5'-10"	B5.5	0.24	5 1/2"	5"
10'-15"	C6.5	0.37	6 1/2"	6"

WALL DEPTH	SCHEDULE	AREA (in ² /ft.)	MAX. SPACING BARS	WWF
0'-5"	A12	0.20	12"	8"
0'-7.5"	A6	0.20	6"	5"
7.5'-10"	B5.5	0.24	5 1/2"	5"
10'-15"	C6.5	0.37	6 1/2"	6"

LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/17		425-052	1 of 7

CAST IRON GRATES

TYPE C
 Approx. Weight 235 Lbs.

TYPE D
 Approx. Weight 465 Lbs.

TYPE E
 Approx. Weight 465 Lbs.

TYPE H (3-GRATE INLET)
 Approx. Weight 725 Lbs.

TYPE H (4-GRATE INLET)
 Approx. Weight 967 Lbs.

STEEL GRATES

TYPE C
 Straight Bars 2" x 1/2"
 Reticuline Bars 1 1/2" x 3/8"
 Bands 2" x 1/2"
 Approx. Weight 104 Lbs.

TYPE D
 Straight Bars 2" x 1/2"
 Reticuline Bars 1 1/2" x 3/8"
 Bands 2" x 1/2"
 Approx. Weight 190 Lbs.

TYPE E
 Straight Bars 2" x 1/2"
 Reticuline Bars 1 1/2" x 3/8"
 Bands 2" x 1/2"
 Approx. Weight 215 Lbs.

TYPE H (2-GRATE INLET)
 Straight End-Bearing Bars 2" x 3/8"
 Straight Bearing Bars 2" x 1/2"
 Reticuline Bars 1 1/2" x 3/8"
 Banding Bars 2" x 1/2"
 Approx. Total Weight 310 Lbs.

TYPE H (4-GRATE INLET)
 Straight End-Bearing Bars 2" x 3/8"
 Straight Bearing Bars 2" x 1/2"
 Reticuline Bars 1 1/2" x 3/8"
 Banding Bars 2" x 1/2"
 Approx. Total Weight 388 Lbs.

GENERAL NOTES

- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to pedestrian traffic shall have traversable slots. The traversable slot modification is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, but dip galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- All exposed edges and corners shall be 1/4" chamfer or tool to 1/4" radius.
- Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- Traversable slots constructed in existing inlets shall be paid for as inlets. INLETS (PARTIAL) FOR EXISTING INLETS.
- Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, 5/1.
- For supplementary details see Index 425-001.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1/2" clearance around pipe casing. Provide one additional #4 bar above and at each side of pipe opening.

LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/17		425-052	3 of 7

NO.	REVISIONS	DATE
1	PER REVIEW COMMENTS	11/17/19
2		
3		
4		
5		
6		

DATE:	9-27-18
PROJECT NO.:	1364-01
FILE NO.:	1364-01-PGD.dwg
SCALE:	AS SHOWN

DRAINAGE DETAILS

C-19

GENERAL NOTES:

- 1. THE SURVEY SHOWS EXISTING EASEMENTS, IF ANY, THAT WERE PROVIDED.
- 2. THIS PROPERTY IS LOCATED WITHIN FLOOD ZONES: AE-EL7 & AE-EL8 PER F.I.R.M. PANEL 0245, MAP NUMBER 12071C0245F, DATED 08-28-08.
- 3. PROPOSED AND EXISTING ELEVATIONS ARE BASED ON NGVD29.
- 4. THIS SITE IS LOCATED IN A FLOODWAY OR COASTAL ZONE.
- 5. THIS SITE CAN BE USED SAFELY FOR BUILDING PURPOSES WITHOUT UNDUE DANGER FROM FLOOD OR ADVERSE SOIL OR FOUNDATION CONDITIONS CONTINGENT UPON SOIL BORINGS AND DESIGN FOR EACH STRUCTURE BY THE BUILDING ARCHITECT TO ACCOMMODATE SUBSOIL CONDITIONS. THIS STATEMENT DOES NOT INCLUDE SINKHOLES.
- 6. THE LOCATION OF EXISTING UTILITIES, PAVEMENT, VEGETATION, AND MISCELLANEOUS IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- 7. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE OWNER/ENGINEER WITHOUT DELAY.
- 8. EXISTING FACILITIES SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO OWNER.
- 9. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS, (LATEST EDITION), AND CITY OF CAPE CORAL STANDARDS, DETAILS, AND SPECIFICATIONS.
- 10.LOCATIONS OF INLETS AND STORM DRAINS MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION.
- 11.THE CONTRACTOR IS REQUIRED TO ADJUST ALL VALVE BOXES, MANHOLE RIMS, GRATES, FIRE HYDRANTS, ETC. AS NECESSARY TO MATCH PROPOSED GRADES.
- 12.CONTRACTOR SHALL NOTIFY CITY OF CAPE CORAL A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.
- 13.CONTRACTOR TO PROVIDE AND MAINTAIN SILT FENCE AND OTHER APPROPRIATE MEASURES TO EFFECT THE FILTRATION OF SURFACE WATER FLOWS AND TO PROVIDE EROSION PROTECTION DURING CONSTRUCTION ACTIVITIES. PROTECTION IS TO BE MAINTAINED DURING THE CONSTRUCTION PERIOD UNTIL DISTURBED SOILS HAVE BEEN STABILIZED WITH GRASS OR SUITABLE EROSION PROTECTION TREATMENT.
- 14.PROPOSED ROADWAYS SHOWN ARE PRIVATE AND SHALL BE PRIVATELY MAINTAINED.
- 15. ALL UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS NOTED OTHERWISE.
- 16.EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- 17.CONTRACTOR SHALL RETAIN, ON THE WORK SITE, COPIES OF ANY PERMITS NECESSARY FOR CONSTRUCTION.
- 18.CONTRACTOR SHALL PROMPTLY REPORT ALL FIELD CHANGES TO THE ENGINEER.
- 19.CONTRACTOR SHALL CLEAR ALL EXCAVATION AND FILL AREAS; ACTUAL LIMITS OF CLEARING SHALL BE DETERMINED IN THE FIELD BY OWNER OR ENGINEER.
- 20.CONTRACTOR SHALL REMOVE ALL MUCK AND OTHER UNSUITABLE MATERIAL FROM FILL AREAS PRIOR TO PLACEMENT OF FILL. ALL MUCK AND OTHER UNSUITABLE MATERIAL EXCAVATED FROM LAKES OR REMOVED FROM FILL AREAS SHALL BE STOCKPILED AT THE PROPOSED PROJECT AS DETERMINED BY THE OWNER.
- 21.SITE GRADES MAY BE ADJUSTED IN FIELD BY ENGINEER.
- 22.LOCATION OF STORM DRAINAGE END TREATMENTS ARE SUBJECT TO MODIFICATION IN THE FIELD BY OWNER OR ENGINEER TO PRESERVE EXISTING VEGETATION.
- 23.CONTRACTOR SHALL USE DESIGNATED CONSTRUCTION ENTRANCES FOR EMPLOYEES AND DELIVERY OF MATERIALS.
- 24.THE LOCATIONS OF EXISTING UTILITIES AND STORM SEWERS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM RECORD DRAWINGS AND FIELD INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXACT LOCATION PRIOR TO CONSTRUCTION AND PROVIDE IN WRITING ANY DISCREPANCIES TO THE ENGINEER.
- 25.DURING CONSTRUCTION, GRATE INLET AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS AND FILL FROM FALLING INTO THE INLET.
- 26.THE CONTRACTOR SHALL ACCURATELY PLOT THE LOCATIONS AND DEPTHS OF ALL IMPROVEMENTS INSTALLED ON A FINAL SET OF RECORDED DRAWINGS WHICH SHALL BE DELIVERED TO THE ENGINEER.
- 27.CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER AND OWNER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- 28.CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS.

CAPE CORAL UTILITY NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY OF CAPE CORAL'S UTILITIES COLLECTION / DISTRIBUTION DIVISION AT 239-574-0852 A MINIMUM OF 7 DAYS PRIOR TO ANY SHUT DOWN, CUT IN, OR DIVERSION OF AN EXISTING WATER MAIN. A 48 HOUR NOTICE IS REQUIRED FOR A PRESSURE TEST, HOT TAP, OR TIE IN TO EXISTING VALVE, AND PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION. ALSO THE CONTRACTOR WILL DISTRIBUTE ANY INTERRUPTION OF SERVICES NOTICES TO ALL AFFECTED PARTIES AND THE CITY WILL DISTRIBUTE ALL BOIL WATER AND RESCISSION NOTICES.
- 2. THE CONTRACTOR IS PROHIBITED FROM TURNING OFF ANY EXISTING MAIN LINE VALVES. THESE WILL BE TURNED OFF BY A REPRESENTATIVE OF THE CITY OF CAPE CORAL UTILITY DEPARTMENT AT A MUTUAL ARRANGED TIME AND DATE.
- 3. ALL EXISTING UTILITY SERVICE CONNECTIONS THAT WILL NOT BE UTILIZED FOR THIS PROJECT SHALL BE ABANDONED AT THE MAIN OR POINT AGREED UPON BY THE UTILITY INSPECTOR, IN ACCORDANCE WITH CITY OF CAPE CORAL SPECIFICATIONS. WATER AND IRRIGATION SERVICES MUST BE ABANDONED AT THE MAIN. SEWER LATERALS MUST BE CAPPED AT ROW WITH AN APPROVED LOCATOR INSTALLED. A VISUAL INSPECTION MUST BE COMPLETED BY A CITY OF CAPE CORAL UTILITIES INSPECTOR.
- 4. THE CONTRACTOR WILL NEED TO ADJUST THE EXISTING UTILITIES AFFECTED BY THE NEWLY PROPOSED FINISHED GRADE AT THEIR EXPENSE. THESE ITEMS INCLUDE BUT NOT LIMITED TO; VALVE BOXES, VALVE PADS, VALVE STEM EXTENSIONS, SERVICE CONNECTIONS AND ACCESSORIES, BACKFLOW PREVENTION DEVICES, METER BOXES, FIRE HYDRANTS, MANHOLE COVERS AND/OR ADJUSTMENT RINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ADEQUATE DEPTHS AND CLEARANCES EXIST TO MAKE THE SYSTEM HYDRAULICS WORK PROPERLY. ANY CHANGES TO EXISTING UTILITIES MUST MEET THE CITY OF CAPE CORAL SPECIFICATIONS. DISINFECTION AND RE-SAMPLING WILL BE REQUIRED WHEN ANY EXISTING POTABLE WATER MAIN IS DAMAGED AND IS RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
- 5. THE CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE, LOCATION AND DEPTH OF ALL EXISTING UTILITIES ON SITE. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL HAVE ALL UTILITIES IDENTIFIED AND MARKED PRIOR TO BEGINNING CONSTRUCTION AND WILL HAVE SOLE RESPONSIBILITY TO PROTECT ONSITE UTILITIES INCLUDING LOCATES DURING CONSTRUCTION.
- 6. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION AND BE RESPONSIBLE FOR PROTECTION OF ON-SITE UTILITIES INCLUDING LOCATES DURING CONSTRUCTION.
- 7. ANY CITY UTILITIES THAT ARE DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE USING CITY APPROVED MATERIALS AND MUST BE REPORTED TO THE CITY OF CAPE CORAL UTILITIES COLLECTION/ DISTRIBUTION DEPARTMENT (574-0852). ALL REPAIRS MUST BE INSPECTED BY A CITY UTILITIES INSPECTOR PRIOR TO BACKFILL AND RESTORATION. IF THE CONTRACTOR IS UNABLE TO MAKE THE NECESSARY REPAIRS, THE CONTRACTOR WILL BE HELD LIABLE FOR COST ASSOCIATED WITH THE REPAIRS BY CITY PERSONNEL.
- 8. THE LATEST SET OF CITY OF CAPE CORAL STANDARD DETAILS AND SPECIFICATIONS WILL BE USED FOR THIS PROJECT AND ALL SPECS THAT ARE CURRENT AT THE TIME OF SITE PLAN APPROVAL ARE TO BE UTILIZED REGARDLESS OF THE DETAILS SHOWN ON THE APPROVED SITE PLANS.
- 9. ANY INSTALLED MATERIALS THAT DO NOT CONFORM TO THE CITY OF CAPE CORAL'S CURRENT SPECIFICATIONS OR ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF CITY OF CAPE CORAL UTILITY INSPECTOR IS SUBJECT TO INSPECTION, REMOVAL AND/OR REPLACEMENT AT THE CONTRACTOR'S EXPENSE. CONTRACTORS SHALL COLOR CODE ALL WATER, SEWER, AND IRRIGATION MAINS AND SERVICES TO MEET THESE REQUIREMENTS. ALL PRIVATELY OWNED WATER AND SEWER SERVICES SHALL CONFORM TO FLORIDA PLUMBING CODE
- 10. ALL POTABLE WATER AND IRRIGATION MAINS UNDER PAVEMENT IN CITY OWNED EASEMENTS OR RIGHT-OF-WAY AND ALL DIVERSIONS UNDER EXISTING UTILITIES, SHALL BE DUCTILE IRON PIPE. (PLEASE REFER TO THE CITY OF CAPE CORAL DESIGN PROCEDURES MANUAL TABLE 2.1 AND SECTIONS 02598 AND 02599 OF THE CITY OF CAPE CORAL TECHNICAL SPECIFICATIONS.
- 11. THE CONTRACTOR SHALL ADJUST (AS REQUIRED) PIPELINE ALIGNMENTS HORIZONTALLY AND/OR VERTICALLY TO AVOID CONFLICTS WITH ACTUAL FIELD CONDITIONS AS UNCOVER DURING CONSTRUCTION. HORIZONTAL AND VERTICAL SEPARATION SHALL CONFORM TO THE CITY OF CAPE CORAL DESIGN PROCEDURES MANUAL SECTIONS 1.5.1 AND 1.5.2.
- 12. THE STANDARD MINIMUM COVER FOR A WATER, IRRIGATION OR FORCE MAIN, WHICH IS NOT UNDER PAVEMENT, IS 30" BELOW FINISHED GRADE, OR 42" BELOW THE EDGE OF PAVEMENT. THE MINIMUM COVER FOR WATER MAINS PLACED UNDER PAVEMENT IS 36". PLEASE DEFER TO THE UTILITY DESIGN PROCEDURES MANUAL SECTION 4.1.5
- 13. STANDARD DUCTILE IRON TAPPING SLEEVES SHALL BE INSTALLED PER CITY OF CAPE CORAL UTILITIES DETAILS. SIZE ON SIZE TAPS AND STAINLESS STEEL TAPPING SLEEVES SHALL NOT BE ALLOWED.
- 14. THE CONTRACTOR OR OWNERS REPRESENTATIVE WILL BE RESPONSIBLE FOR OBTAINING AN APPROPRIATE SIZED TEMPORARY JUMPER ASSEMBLY WITH METER FROM THE CITY OF CAPE CORAL'S UTILITY COLLECTION AND DISTRIBUTION DEPARTMENT AT 574-0852 PRIOR TO RECEIVING CITY WATER FOR CONSTRUCTION AND/OR TYING INTO ANY EXISTING POTABLE WATER MAINLINES. A BILLING ACCOUNT MUST BE SET UP THROUGH THE CITY'S CUSTOMER BILLING DEPARTMENT PRIOR TO INSTALLATION. A REPRESENTATIVE FROM THE UTILITY COLLECTIONS AND DISTRIBUTION DEPARTMENT DIVISION AT 574-0852 MUST BE NOTIFIED 7 DAYS IN ADVANCE OF INSTALLATION AND BE PRESENT TO WITNESS AND RECORD THE INSTALLATIONS PROCESS. AFTER CONSTRUCTION IS COMPLETE AND BEFORE THE TEMPORARY JUMPER AND METER IS REMOVED ALL POTABLE WATER MAINS SHALL BE FLUSHED AND PRESSURE TESTED PER AWWA SECTION C600 AND DISINFECTED PER AWWA C-651.
- 15. ALL WATER METERS SHALL BE LOCATED AT ROW AND MUST BE SHOWN ON THE UTILITY PLAN INDICATING THE SIZE. INSTALLATION OF WATER METERS AND CONNECTIONS TO THE CITY OF CAPE CORAL UTILITIES SHALL BE PERFORMED BY AND COORDINATED WITH THE CITY OF CAPE CORAL UTILITIES COLLECTION/ DISTRIBUTION DIVISION AT THE CONTRACTOR'S EXPENSE.
- 16. ALL POTABLE WATER AND IRRIGATION METERS FOR DOMESTIC AND FIRE PROTECTION SHALL BE ORDERED AND PAID FOR THROUGH THE CITY OF CAPE CORAL'S CUSTOMER BILLING DEPARTMENT AT 574-7722. PLEASE REFERENCE THE CITY OF CAPE CORAL'S CODE OF ORDINANCES SECTION 19-23" ALL WATER METERS SHALL BE FURNISHED AND WILL REMAIN PROPERTY OF THE CITY AND SHALL BE ACCESSIBLE AND SUBJECT TO ITS CONTROL". METER ARE TO BE NEPTUNE RADIO READ AND SHALL BE FURNISHED AND INSTALLED WHEN THE SUBJECT UTILITY MAIN(S) ARE PROPERLY PRESSURE TESTED, BACTERIOLOGICAL TESTED AND FORMALLY ACCEPTED BY AN AUTHORIZED REPRESENTATIVE OF THE CITY CO CAPE CORAL. ALL METER AND FIRE LINE ACCOUNT MUST BE SET UP THRU CUSTOMER SERVICE PRIOR TO THE WATER FINAL AND UTILITY ACCOUNT INSPECTIONS.
- 17. ALL BACKFLOW PREVENTION DEVICE MUST BE LOCATED IMMEDIATELY FOLLOWING ALL WATER METERS ON THE OWNER'S PROPERTY. APPROVED BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER CITY SPECS WITH TESTING PERFORMED BY A CERTIFIED CROSS CONNECTION CONTROL TECHNICIAN. RESULTS MUST BE FAXED UTILITIES COLLECTION DISTRIBUTION AT (239)-574-0855
- 18. ALL FIRE LINES AND PRIVATE HYDRANTS WILL REQUIRE THE INSTALLATION OF AN APPROVED DDCV ASSEMBLY INSTALLED AS CLOSE TO THE ROW AS POSSIBLE WITHIN THE P.U.E. A FIRE HYDRANT RESPONSIBILITY AGREEMENT WILL BE REQUIRED FOR ALL PRIVATE FIRE HYDRANTS. ALL ABOVE GROUND ASSEMBLIES, PIPE, AND FITTINGS MUST BE PAINTED PER CITY OF CAPE CORAL TECHNICAL SPECIFICATIONS PROTECTIVE COATINGS SECTION 09800.
- 19. ALL ABOVE GROUND ASSEMBLIES, PIPE, AND FITTINGS MUST BE PAINTED PER CITY OF CAPE CORAL TECHNICAL SPECIFICATIONS PROTECTIVE COATINGS SECTION 9800.
- 20. THE THREADS ON ALL STAINLESS STEEL BOLTS SHALL BE PROTECTED WITH AN ANTI-SEIZE LUBRICANT SUITABLE FOR SUBMERGED STAINLESS STEEL BOLTS, TO MEET GOVERNMENT SPECIFICATION MIL-A-907E. FOR MORE SPECIFICATION ON LUBRICANTS FOR STAINLESS STEEL BOLTS, REFER TO SECTION 05500 OF THE CITY OF CAPE CORAL'S "TECHNICAL SPECIFICATIONS".
- 21. SANITARY SEWER LATERALS ARE TO BE CONSTRUCTED WITH SDR 26 AT A MIN. 1% SLOPE.

CAPE CORAL UTILITY NOTES CONT.:

- 22. ALL COMMERCIAL SITES WILL REQUIRE INSTALLATION OF A 6" SEWER CLEANOUT AT CITY CONNECTION POINT, LOCATED NEAR THE ROW PER CITY OF CAPE CORAL 6" SEWER CLEANOUT DETAILS.
- 23. THE CITY REQUIRES A M.O.T PERMIT BE PULLED PRIOR TO DOING ANY WORK IN THE CITY R.O.W. THE CONTRACT HAS BEEN PROVIDED AN APPLICATION WITH THEIR APPROVED SET OF PLANS. THE APPLICATION SHOULD BE SUBMITTED WITH MOT/ MAINTENANCE OF TRAFFIC DESIGN/PLAN/DRAWING. THE MOT CAN BE FROM THE FDOT DESIGN STANDARDS INDEX 600 SERIES, WHICH IS AVAILABLE THRU WWW.MY.FLORIDA.COM OR WWW.FDOT.COM OR THE CONTRACTOR CAN HAVE A LOCAL TRAFFIC CONTROL COMPANY SUPPLY THEM WITH THE MOT. IF YOU HAVE ANY QUESTIONS ON THE ROW/MOT PERMIT PLEASE CONTACT 242-3214.
- 24. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO DEWATER TRENCH AND SECURE EXCAVATIONS. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS ASSOCIATED WITH THE CITY OF CAPE CORALS UTILITY DESIGN PROCEDURES MANUAL TECHNICAL SPECIFICATIONS SECTION 02140. ALL DEWATERING SHALL COMPLY WITH THE REGULATIONS OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND ANY AGENCY WITH JURISDICTION.
- 25. THE CONTRACTOR SHALL MAINTAIN A CURRENT AND UPDATED SET OF AS-BUILT DRAWINGS AT ALL TIMES AND PROVIDE ONE COPY TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION. ACCEPTANCE OF THE COMPLETED UTILITY SYSTEM WILL NOT BE GIVEN UNTIL AS-BUILT PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER OF RECORD.
- 26. FOR ALL METER CHANGES (I.E. IRRIGATION OR DOMESTIC) THE ENGINEER OF RECORD (NOT THE CONTRACTOR) MUST SUBMIT EITHER THE MINOR REVISION TO THE APPROVED UTILITY PLAN AND/OR A REVISION LETTER DELINEATING THE SUBJECT CHANGE
- 27. AFTER THE UTILITIES DIVISION APPROVES THE SUBJECT PROJECT FOR SITE PLAN APPROVAL THE ENGINEER OF RECORD MAY SUBMIT THE REQUIRED HRS AND/OR DEP PERMIT APPLICATION TO THE UTILITIES DIVISION FOR PROPER EXECUTION. PLEASE CONTACT CAPE CORAL UTILITY DIVISION AT 239-574-0710 FOR FURTHER INFORMATION AND OR ASSISTANCE ON THE CITY OF CAPE CORAL'S PROCESSING REQUIREMENTS.
- 28. THE ENGINEER OF RECORD SHALL PROVIDE UTILITY TURN-OVER/PROJECT CLOSE OUT DOCUMENTATION TO THE CITY OF CAPE CORAL FOR ANY UTILITY AND/OR RIGHT-OF-WAY INFRASTRUCTURE CONSTRUCTED AND CONVEYED TO THE CITY OF CAPE CORAL FOR OWNERSHIP AND MAINTENANCE PRIOR TO C.O. THE FORMAL UTILITY/RIGHT-OF-WAY ACCEPTANCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING: (SIGNED AND SEALED AS-BUILT DRAWINGS (MINIMUM 4 COPIES), AN ENGINEER'S CERTIFICATION LETTER STATING THAT THE PROJECT WAS BUILT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, HRS AND/OR DEP PERMITS TO PLACE IN SERVICE, BACKFLOW CERTIFICATION, OPERATIONS AND MAINTENANCE MANUALS (LIFT STATIONS), LIST OF CONTRIBUTORY ASSETS ALL SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, A RELEASE OF LIEN BY CONTRACTOR, ONE YEAR WARRANTY FOR MATERIALS AND LABOR AND BILL OF , ALL UTILITY AGREEMENTS, AND OTHER ANY OTHER OWNERSHIP DOCUMENTS). ELECTRONIC COPIES OF THE (LIST OF CONTRIBUTORY ASSETS, RELEASE OF LIEN BY CONTRACTOR, ONE YEAR WARRANTY FOR MATERIALS AND LABOR AND BILL OF SALE) CAN BE OBTAINED BY CONTACTING SITE DEVELOPMENT AND REVIEW AT 239-573-3167. ONCE THE DOCUMENTATION HAS BEEN FINALIZED AND PROPERLY EXECUTED BY THE ENGINEER OF RECORD THE CITY OF CAPE CORAL REQUIRES 2 SETS OF FINAL CLOSE OUT DOCUMENTATION. ONE SET SHALL BE DISTRIBUTED TO THE CITY OF CAPE CORAL UTILITIES DIVISION AT 239-574-0710; AND SECOND SET SHALL BE DISTRIBUTED TO THE SITE DEVELOPMENT AND REVIEW DIVISION AT 239-574-0583

GENERAL UTILITY NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER.
- 2. IN THE EVENT THAT HARD LIMESTONE FORMATION IS ENCOUNTERED, MAKING IT IMPOSSIBLE TO EXCAVATE TO THE DEPTH REQUIRED UNDER THIS CONTRACT, THE CONTRACTOR MAY BE ALLOWED TO REDUCE THE PIPE COVER TO NOT LESS THAN TWO (2) FEET WHILE MAINTAINING THE CITY OF CAPE CORAL REQUIRED THICKNESS OF BEDDING UNDER THE PIPE. SUCH DEVIATION FROM THE PLANS MUST BE FIRST BE APPROVED BY CITY OF CAPE CORAL AND THE ENGINEER PRIOR TO THE PIPE LAYING. IF TWO FEET OF COVER OR MORE CAN NOT BE ATTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHOD OF CONSTRUCTION OR PIPE PROTECTION WHICH SHALL FIRST BE APPROVED BY CITY OF CAPE CORAL AND THE ENGINEER, AT NO ADDITIONAL COST TO THE CITY.
- 3. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND CITY OF CAPE CORAL IMMEDIATELY CONCERNING ANY CONFLICTS WITH CITY OF CAPE CORAL UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
- 4. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.
- 5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITION WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- 6. LOCATIONS OF PROPOSED UTILITY LINES ARE SUBJECT TO MODIFICATION TO PRESERVE EXISTING VEGETATION AS DETERMINED BY THE ENGINEER.
- 7. CONTRACTOR TO PROVIDE UTILITY RECORD DRAWINGS TO OWNER PRIOR TO FINAL PAYMENT REQUEST.
- 8. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10' HORIZONTAL AND 12" VERTICAL SEPARATION BETWEEN SANITARY SEWER AND POTABLE WATER LINES. WHERE IT IS NOT PRACTICAL TO MAINTAIN THIS SEPARATION, THE WATER MAIN (OR REUSE LINE) AND SEWER LINE SHALL BE LAID IN SEPARATED TRENCHES SO THAT AT LEAST 12" SEPARATION BETWEEN THE INVERT OF THE UPPER PIPE (WATER OR REUSE LINE) AND THE CROWN OF THE LOWER PIPE (SEWER LINE) IS MAINTAINED. ALTERNATELY, THE SEWER LINE OR THE WATER MAIN (OR REUSE LINE) MAY BE PLACED IN A SLEEVE TO OBTAIN THE EQUIVALENT OF THE 10' SEPARATION.
- 9. SEWER LINES AND POTABLE WATERLINES (OR REUSE LINES) SHALL BE INSTALLED TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 12" BETWEEN THE INVERT OF THE UPPER PIPE AND CROWN OF THE LOWER PIPE AT CROSSINGS. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER MAIN AND WATER MAIN (OR REUSE LINE) JOINTS ARE AN EQUAL DISTANCE FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY TWO JOINTS. ALTERNATELY, THE SEWER MAIN OR THE WATER MAIN (OR REUSE LINE) MAY BE PLACED IN A SLEEVE TO OBTAIN THE EQUIVALENT OF THE REQUIRED SEPARATION.
- 10. EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN. WITHIN THE BRANCH SPREAD OF SUCH TREES, PERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATELY. PRUNE INJURED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE.
- 11. CONTRACTOR SHALL NOT EXCEED 80% OF THE MANUFACTURERS RECOMMENDED MAXIMUM DEFLECTION WHEN DEFLECTING PIPE. ENGINEER WILL DETERMINE MAXIMUM DEFLECTION AFTER PIPE MANUFACTURER IS SELECTED.

PAVING, GRADING AND DRAINAGE NOTES:

- 1. THIS SITE CAN BE UTILIZED SAFELY FOR BUILDING PURPOSES WITHOUT UNDUE DANGER FROM FLOODING OR ADVERSE SOIL CONDITIONS.
- 2. LENGTH OF STORM DRAIN PIPES ARE APPROXIMATE AND ARE MEASURED FROM CENTER OF STRUCTURE.
- 3. CONTRACTOR SHALL NOTIFY CITY OF CAPE CORAL A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.
- 4. CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES IN THE AREA 72 HOURS (MIN) PRIOR TO COMMENCING CONSTRUCTION.
- 5. PLACE 200 S.F. OF SOD AROUND ALL INLETS, HEADWALLS, AND CONTROL STRUCTURES IN OPEN SPACE AREAS UNLESS SPECIFIC LANDSCAPING HAS BEEN PROVIDED. USE ARGENTINE BAHIA AND CONFORM TO FDOT SECTION 575.
- 6. PLACE 18" OF SOD CONTINUOUS ALONG EDGES OF PAVEMENT OF ALL ROADS AND/OR CURB, LAYING PARALLEL WITH THE ROAD MAINTAINING 1" BELOW FINISHED PAVEMENT GRADE.

WATER LINE NOTES:

- 1. THE ENDS OF ALL CAPPED IRRIGATION AND POTABLE WATERLINES SHALL BE MARKED WITH ELECTRONIC MARKERS AND 2'X4' STAKES 5' IN LENGTH WITH 2' ABOVE GROUND.
- 2. ALL POTABLE AND IRRIGATION WATERLINES SHALL BE AWWA C-900, DR18, CLASS 150 PVC UNLESS OTHERWISE NOTED. POTABLE WATERLINES LOCATED UNDER PROPOSED PAVEMENT SHALL BE AWWA C-900, DR 14 PVC.
- 3. ALL WATERLINES SHALL HAVE A MINIMUM COVER OF 30" AND A MAXIMUM OF 48" BELOW FINISHED GRADE.
- 4. CONTRACTOR SHALL USE 45° BENDS WITH MEGALUGS AT CONFLICTS.
- 5. NOT ALL PROPOSED BENDS ARE SHOWN IN WATERLINE. ADDITIONAL FITTINGS MAY BE REQUIRED TO BEND WATERLINE AS SHOWN.
- 6. THE CONTRACTOR SHALL PLACE PROPOSED VALVES AS SHOWN. THE VALVE BOX SHALL NOT BE LOCATED IN PAVEMENT OR DRIVEWAY AREAS.
- 7. PROPOSED FIRE HYDRANTS SHALL BE LOCATED AS SHOWN ON UTILITY DETAIL SHEETS. THE CONTRACTOR SHALL PROVIDE AND INSTALL REFLECTIVE PAVEMENT MARKERS AS REQUIRED NEAR PROPOSED FIRE HYDRANTS.
- 8. WATER MAIN TO BE 5' MINIMUM CLEARANCE DISTANCE FROM BACK OF CURB.

SANITARY SEWER / FORCE MAIN NOTES:

- 1. ALL PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED FROM CENTER OF STRUCTURE OR FITTINGS.
- 2. ALL GRAVITY SEWER LINES SHALL BE PVC (SDR-26) UNLESS NOTED OTHERWISE.
- 3. CLEANOUT TOP ELEVATIONS ARE APPROXIMATE AND SHOULD BE ADJUSTED TO FINAL ELEVATION.
- 4. ALL SANITARY SEWER SERVICE INVERTS TO BE PLACED 36" BELOW BACK OF CURB (MIN. 1% SLOPE) TYPICAL UNLESS IN CONFLICT WITH WATERLINE.
- 5. U.S. FOUNDRY CLEAN OUT RING AND COVER IS REQUIRED IN ALL AREAS, INCLUDING GREEN AREAS.

SIGNING AND PAVEMENT MARKING NOTES:

- 1. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION), "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION)", AND CITY OF CAPE CORAL REQUIREMENTS.
- 2. MATCH EXISTING PAVEMENT MARKINGS AT EXISTING ROADS.
- 3. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).
- 4. CONTRACTOR SHALL SET ROADWAY GROUND MOUNT SIGNS AT PROPER DEFLECTION ANGLE TO THE ROADWAY IN ACCORDANCE WITH FDOT INDEX NUMBER 17302.

TESTING AND INSPECTION REQUIREMENTS:

- 1. THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECTED TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
- 2. THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE INSPECTED BY THE OWNER'S ENGINEER PRIOR TO FINAL ACCEPTANCE.

CLEARING AND SITE PREPARATION NOTES:

- 1. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS

LANDSCAPE NOTE:

- 1. SEE LANDSCAPE PLAN FOR PLANTING REQUIREMENTS, LOCATIONS & SPECIFICATIONS.



DATE: 1-17-19

REVISIONS table with columns: NO., DESCRIPTION, DATE, PER SWAD COMMENTS

DATE: 9-27-18
PROJECT NO. 1364-01
FILE NO. 1364-01-NOTE.dwg
SCALE: AS SHOWN

GENERAL NOTES

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