

SITE DEVELOPMENT PLANS FOR:

CITY OF NAPLES WELL 408

LOCATED IN SECTION 25, TOWNSHIP
49 SOUTH, RANGE 28 EAST, COLLIER
COUNTY, FLORIDA.

PREPARED FOR:
CITY OF NAPLES UTILITIES
380 RIVERSIDE CIR.
NAPLES FL, 34102

PROPERTY ZONING: 86
PROPERTY PARCEL NUMBER: 40691240006
LEGAL DESCRIPTION:
GOLDEN GATE EST UNIT 77 A PORTION
OF TR 142 FURTHER DESC IN OR 635-1249

REVIEWING AGENCIES

COLLIER COUNTY

COLLIER COUNTY COMMUNITY DEVELOPMENT SERVICES
2800 NORTH HORSESHOE DRIVE NAPLES, FL 34104
TEL: (239) 643-8400

TELEPHONE:
CENTURY LINK
P.O. BOX 2477
NAPLES, FLA. 34104
TEL: (239) 263-6319

ENVIRONMENTAL:
DEPARTMENT OF ENVIRONMENTAL PROTECTION
2295 VICTORIA AVENUE NO. 364
FT. MYERS, FLA. 34113
TEL: (239) 332-6975

SEWER:
COLLIER COUNTY WASTEWATER DEPARTMENT
3301 TAMiami TRAIL EAST
NAPLES, FLA. 34113
TEL: (239) 732-2575

WATER MANAGEMENT:
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
2301 MCCREGGOR BOULEVARD
FORT MYERS, FLA. 33901
TEL: (239) 338-2929

POWER:
FLORIDA POWER AND LIGHT COMPANY
4105 15TH AVENUE SOUTHWEST
NAPLES, FLA. 34116
(239) 553-6090

TELEVISION:
COMCAST
3011 TOWER ROAD
NAPLES, FLA. 34113
TEL: (239) 793-3377

FIRE DISTRICT:
NORTH NAPLES FIRE RESCUE DISTRICT
1885 VETERANS PARK DRIVE
NAPLES, FL 34109
TEL: (239) 597-3222

WATER:
CITY OF NAPLES
380 RIVERSIDE CIR
NAPLES, FLA. 34102
TEL: (239) 213-4245

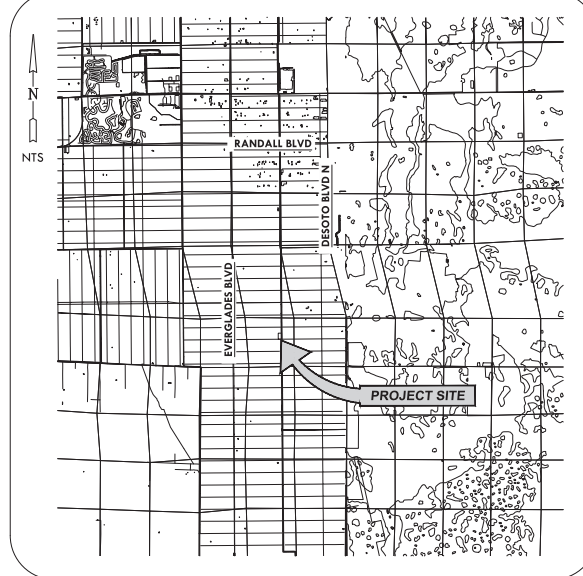
SHEET INDEX

SHEET NO.	SHEET TITLE
01	COVER
02	EXISTING CONDITIONS
03	WELL SITE PLAN
04	PLAN & PROFILE
05	GRADING AND DRAINAGE
06	EROSION CONTROL PLAN
07	DETAILS - 1
08	DETAILS - 2
09	DETAILS - 3

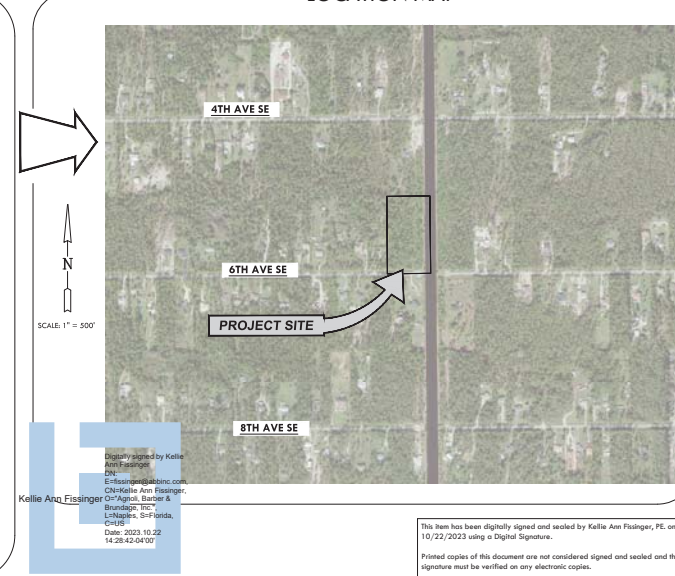
ABBREVIATIONS

- P/L PROPERTY LINE
- C/L CENTER LINE
- ++ APPROXIMATE
- ELEC ELECTRIC
- ARV AIR RELEASE VALVE
- BOC BACK OF CURB
- TBA TO BE ABANDONED
- TBR TO BE REMOVED
- PBSP PERMANENT BACTERIAL SAMPLE POINT
- TBSP TEMPORARY BACTERIAL SAMPLE POINT
- CV CHECK VALVE
- GV GATE VALVE
- PV PLUG VALVE
- D. E. DRAINAGE EASEMENT
- C. U. E. COUNTY UTILITY EASEMENT
- P. U. E. PUBLIC UTILITY EASEMENT
- L. B. E. LANDSCAPE BUFFER EASEMENT
- L. M. E. LAKE MAINTENANCE EASEMENT
- R. O. W. RIGHT-OF-WAY
- FLORIDA DEPARTMENT OF TRANSPORTATION
- FM FORCE MAIN
- WM WATER MAIN
- EFF EFFLUENT LINE
- S. S. M. GRAVITY SANITARY SEWER MAIN
- W. S. WATER SERVICE
- S. S. L. GRAVITY SANITARY SEWER LATERAL
- PIV POINT INDICATOR VALVE
- FDC FIRE DEPARTMENT CONNECTION
- FH FIRE HYDRANT
- ML MANHOLE
- DL STORM DRAINAGE STRUCTURE
- RD ROOF DRAIN
- YD YARD DRAIN
- PS PUMP STATION
- CS CONTROL STRUCTURE
- HW HEADWALL
- C. O. CLEAN OUT
- F. F. E. FINISHED FLOOR ELEVATION
- L. S. P. A. LITTORAL SHELF PLANTING AREA
- BLDG BUILDING
- RED. REDUCER

VICINITY MAP



LOCATION MAP



AGNOLI BARBER & BRUNDAGE, INC.
Professional Engineers, Planners, Surveyors & Landscape Architects
18 Jack LB Blvd, Suite 200
Naples, FL 34109
Phone: (239) 437-1111
Fax: (239) 437-1001

CLIENT NAME:
**CITY OF NAPLES UTILITIES
380 RIVERSIDE CIR.
NAPLES FL, 34102**

PROJECT NAME:
CITY OF NAPLES WELL 408

DRAWING TITLE:
COVER

DESIGNED BY: ABB
DRAWN BY: AGC
CHECKED BY: KAF
REVIEWED BY: KAF
DATUM: NAVD83
CONVERSION: NAVD=NGVD+3.3'
DATE: AUGUST 21, 2023

NO.	DATE	DESCRIPTION
1	08/21/2023	ISSUED FOR PERMIT

ACAD FILE NAME:
13008 - CVR

ABB PROJECT #:
21-0174

PLOT VIEW: LAYOUT
01 - CVR

SHEET **01**
OF **09**

ACAD FILE #:
13008

This item has been digitally signed and sealed by Kellie Ann Fissinger, PE, on 10/22/2023 using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



24x36 SCALE: 1" = 20'
11x17 SCALE: 1" = 40'

EXISTING SITE LAND USE:

EXISTING DESCRIPTION	ACRES	TOTAL %
PERVIOUS AREA	5.00 AC	80.0%
IMPVIOUS USE	0.00 AC	0.00%
WATERWAY	0.00 AC	0.00%
CANAL	0.74 AC	13.3%
IMPVIOUS AREA	0.74 AC	13.3%
OPEN/IMVIOUS AREA	4.83 AC	86.7%
TOTAL PERVIOUS AREA	4.83 AC	86.7%
TOTAL AREA	5.57 AC	100%

AGNOLI BARBER & BRUNDAGE, INC.
Professional Engineers, Planners, Surveyors & Landscape Architects
Certificate of Authorization No. 183,966, 184,124, 184,125 and 184,126/2023
Cedar County, Georgia
1800 Two Riverside, Suite 200
Naples, FL 34108
Phone: (239) 435-1311
Fax: (239) 435-1312

CLIENT NAME
**CITY OF NAPLES UTILITIES
380 RIVERSIDE CIR.
NAPLES FL, 34102**

PROJECT NAME
CITY OF NAPLES WELL 408

DRAWING TITLE
EXISTING CONDITIONS

DESIGNED BY: ABB
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CHECKED BY: KAF
REVIEWED BY: KAF
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CONVERSION: N/A
DATE AUGUST 31, 2023

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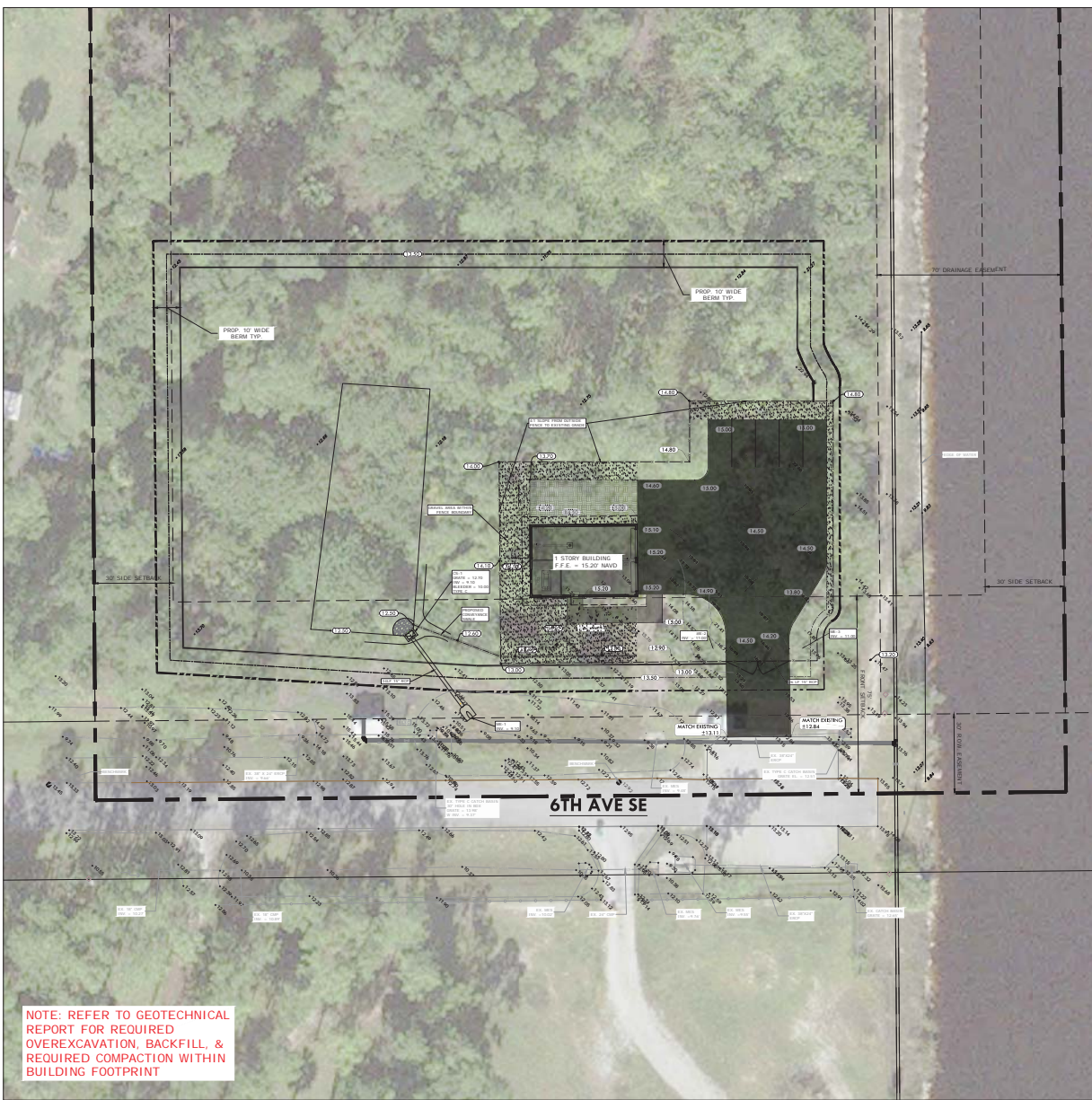
ACAD FILE NAME:
13008 - ME

ABB PROJECT #
21-0174

PLOT VIEW / LAYOUT
02 - XCON

SHEET **02**
OF **09**

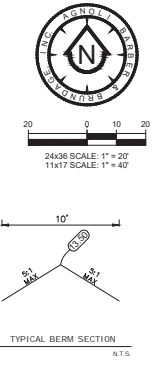
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NOTE: REFER TO GEOTECHNICAL REPORT FOR REQUIRED OVEREXCAVATION, BACKFILL, & REQUIRED COMPACTION WITHIN BUILDING FOOTPRINT

BASIN LAND USE:

DESCRIPTION	ACRES	TOTAL %
EXISTING		
DEVELOP. AREA	0.00 AC	0.00%
VEGETATED USE	0.00 AC	0.00%
HARDSCAPE	0.00 AC	0.00%
IMPERVIOUS AREA	0.00 AC	0.00%
OPEN PERVIOUS AREA	1.01 AC	100%
PERVIOUS AREA	1.01 AC	100%
TOTAL AREA	1.01 AC	100%
PROPOSED		
DEVELOP. AREA	0.03 AC	2.9%
VEGETATED USE	0.13 AC	12.9%
HARDSCAPE	0.11 AC	10.9%
IMPERVIOUS AREA	0.27 AC	26.7%
OPEN PERVIOUS AREA	0.12 AC	11.9%
PERVIOUS AREA	0.42 AC	41.4%
TOTAL AREA	1.01 AC	100%



TYPE 1 STORM WATER MANAGEMENT CALCS:

1 Area Lot	=	5.57 ac.
2 Impervious Area Breakdown		
Buildings	=	0.03 ac.
Driveway/Sidewalk (Concrete)	=	0.13 ac.
Concrete Pad and Wall	=	0.11 ac.
Canal	=	0.74 ac.
Total Impervious Area	=	1.01 ac.
% Impervious	=	18.1%
3 Stormwater Plan Threshold		
Lot in Estates Zoning District	=	Type 1 Plan
Impervious Threshold	=	25%

WATER QUALITY CALCULATION:

CRITERIA 1- FIRST INCH OF RUNOFF

VOLUME REQUIRED = 1" x TOTAL BASIN AREA
= 1" x (117/1.2) x 1.00 AC = 0.08 AC-FT

*25% DRY DETENTION CREDIT = 0.08 AC x 0.75 = 0.06 AC-FT

OR

CRITERIA 2- 2.5" x IMPERVIOUS

VOLUME REQUIRED = 2.5" x IMPERVIOUS % x (TOTAL SITE AREA)
= 2.5"(117/1.2) x 0.80% x 1.00 AC = 0.08 AC-FT

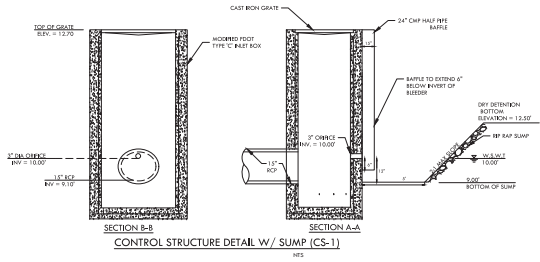
*25% DRY DETENTION CREDIT = 0.08 AC x 0.75 = 0.06 AC-FT REQUIRED

ADDITIONAL 50% REQUIRED - DISCHARGING TO OUTSTANDING FLORIDA WATER = 0.09 AC-FT

VOLUME PROVIDED = 0.10 AC-FT

STORM WATER MANAGEMENT SUMMARY TABLE

WET SEASON WATER TABLE	10.50 FT NAVD
CONTROL ELEV.	10.00 FT NAVD
WATER QUALITY ELEV.	13.50 FT NAVD
WATER QUALITY FLOOR REQUIRED	0.00 AC-FT
5 YR 1 DAY PEAK ELEV.	12.50 FT NAVD
25 YR 1 DAY PEAK ELEV.	12.50 FT NAVD
100 YR 3 DAY PEAK ELEV. ZERO DISCHARGE	12.50 FT NAVD
100 YR 3 DAY PEAK ELEV. ZERO DISCHARGE	12.50 FT NAVD
PROPOSED PARKING LOT ELEV.	14.50 FT NAVD
PREPROPOSED BERM ELEV.	12.50 FT NAVD
PREPROPOSED BERM ELEV.	13.50 FT NAVD
PREPROPOSED FLOOR ELEV. (ELEV. 0)	13.50 FT NAVD
PREPROPOSED FLOOR ELEV.	13.50 FT NAVD
FLOOR FLOOR JOSE	4ft
18" ABOVE ROAD CROWN	14.65 FT NAVD
DEPOSED POND FLOOR CONTROL	13.80 FT NAVD



AGNOLI BARBER & BRUNDAGE, INC.
Professional Engineers, Planners, Surveyors & Landscape Architects
Certificate of Authorization No. 13166, 13167, 13168, and 13169
Order Counter: 800-778-8888, Suite 200
Naples, FL 34108
www.agnolibrundage.com

CITY OF NAPLES UTILITIES
380 RIVERSIDE CIR.
NAPLES FL, 34102

CLIENT NAME: CITY OF NAPLES UTILITIES
PROJECT NAME: CITY OF NAPLES WELL 408
DRAWING TITLE: GRADING AND DRAINAGE

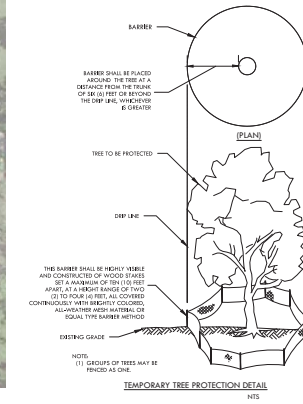
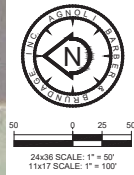
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REVIEWED BY: KAP
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CONVERSION: NAVD=NGVD+1.37
DATE AUGUST 21, 2023

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ACAD FILE NAME: 13008 - ME
ABB PROJECT #: 21-0174
PILOT VIEW / LAYOUT: 05 - PGD
SHEET OF: 05 OF 09
ACAD FILE #: 13008



SEDIMENT CONTROL PLAN

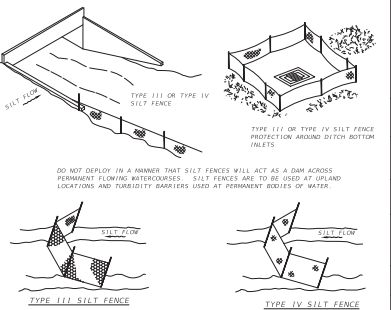
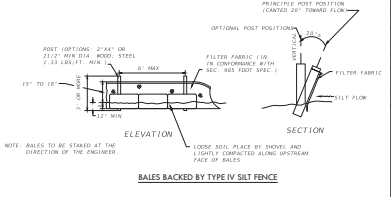
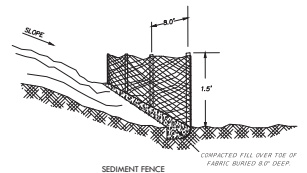


TREE AND VEGETATION PROTECTION NOTES:

- AREAS TO BE PRESERVED SHALL BE PROTECTED DURING LAND ACQUISITION AND CONSTRUCTION ACTIVITIES BY PLACING A CONTINUOUS BARBER AROUND THE PERIMETER OF THE AREA OF VEGETATION TO BE PRESERVED. THE BARBER SHALL BE HEAVILY VISIBLE AND CONSTRUCTED OF WOOD STAKES SET A MINIMUM OF TEN FEET APART, AT A HEIGHT RANGE OF TWO (2) TO FOUR FEET, ALL COVERED CONTINUOUSLY WITH BRIGHT COLORED, ALL-WEATHER MESH MATERIAL OF EQUAL TYPE BARBER METHOD. AN EQUAL METHOD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE COUNTY MANAGER OR DESIGNEE.
- WHEN THE PERIMETER OF SINGLE TREES IS REQUIRED BY THE COLLIER COUNTY LAND DEVELOPMENT CODE, A PROTECTIVE BARBER, SIMILAR TO THAT REQUIRED IN SECTION 3.6.5.3.4 OF S&S CODE, SHALL BE PLACED AROUND THE TREE AT A DISTANCE FROM THE TRUNK OF THE TREE OR BEYOND THE DWP LINE, WHATEVER IS GREATER, OR AS OTHERWISE APPROVED BY THE COUNTY MANAGER OR DESIGNEE.
- PROTECTIVE BARBERS SHALL BE INSTALLED AND MAINTAINED FOR THE PERIOD OF THE BEGINNING WITH THE COMMENCEMENT OF ANY PHASE OF LAND CLEARING OR ERECTION OPERATIONS, AND ENDING WITH THE COMPLETION OF THAT PHASE OF THE CONSTRUCTION WORK ON THE SITE, UNLESS OTHERWISE APPROVED TO BE REMOVED BY THE COUNTY MANAGER OR DESIGNEE. ALL PROTECTIVE BARBERS SHALL BE INSTALLED PERMANENT TO THE TREE PROTECTION MANUAL FOR SUBBERS AND DESIGNERS, DIVISION OF FORESTRY, STATE OF FLORIDA OR OTHER METHOD APPROVED BY THE COUNTY MANAGER OR DESIGNEE.

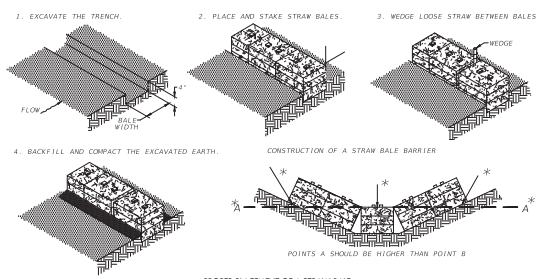
SEDIMENT CONTROL NOTES:

- PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY, APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF-SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL THE SURROUNDING AREAS ARE ESTABLISHED.
- THE FOLLOWING MINIMUM REQUIREMENTS ARE RECOMMENDED: REFERENCE FLORIDA DEVELOPMENT MANUAL, FEES, PHS & SOT TO ACCESS:
 - BMP 1.01 - TEMPORARY CONSTRUCTION ENTRANCE
 - BMP 1.05 - STRAW BALE BARRIER
 - BMP 1.06 - SILT FENCE
 - BMP 1.08 - STORMWATER DRAIN PROTECTION
- THREE BEST MANAGEMENT PRACTICES (BMPs) ARE TYPES OF THE REQUIREMENTS FOR SOIL EROSION CONTROL PER SECTION 3.7 OF THE COLLIER COUNTY LAND DEVELOPMENT CODE. THEY MAY NOT CONSTITUTE COMPLETE REQUIREMENTS FOR COMPLIANCE WITH REGULATORY AGENCIES AND SHOULD BECOME CONSIDERING.

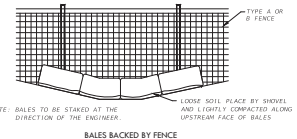


SILT FENCE APPLICATIONS

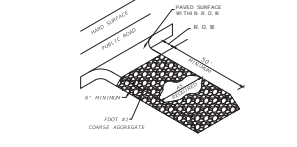
NOTE: STRAW BALE FOR TYPE III AND TYPE IV FENCES TO BE IN ACCORDANCE WITH EMAP 1, SHEET 1 OF 3 AND DITCH INSTALLATION AND DRAINAGE STRUCTURES SHEET 2 OF 3.



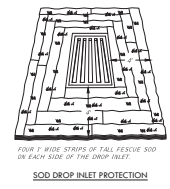
PROPER PLACEMENT OF A STRAW BALE BARRIER IN DRAINAGE MAY BMP 1.05



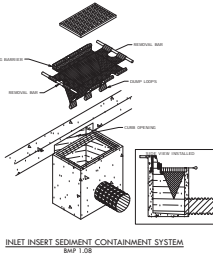
BALES BACKED BY FENCE



CONSTRUCTION ENTRANCE BMP 1.01



SOD DROP INLET PROTECTION



INLET INSERT SEDIMENT CONTAINMENT SYSTEM BMP 1.08

AGNOLI BARBER & BRUNDAGE, INC.
 Professional Engineers, Planners, Surveyors & Landscape Architects
 Certificate of Authorization No. 10000000000000000000
 380 Riverside Cir., Naples, FL 34108
 Phone: (239) 441-1111
 Fax: (239) 441-1112

CLIENT NAME:
CITY OF NAPLES UTILITIES
380 RIVERSIDE CIR.
NAPLES FL, 34102

PROJECT NAME:
CITY OF NAPLES WELL 408
EROSION CONTROL PLAN

DESIGNED BY: ABB
DRAWN BY: AGC
CHECKED BY: KAP
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DATE: 11/06/2023
CONVERSION: NAVD83 TO NAD83
DATE: AUGUST 31, 2023

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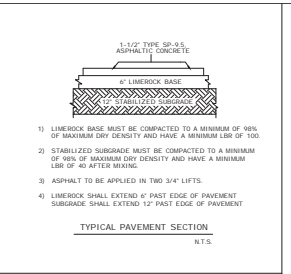
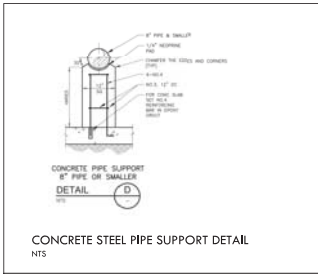
ACADEMIC NAME:
13008 - CVR

ABB PROJECT #:
21-0174

PLOT VIEW / LAYOUT:
06 - ECP

SHEET OF:
06 OF 09

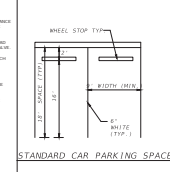
ACADEMIC #:
13008



MAINTAINED PIPE LENGTH BY PIPE TO

PIPE SIZE	PIPE MATERIAL	MINIMUM LENGTH	MAXIMUM LENGTH
12"	ASPHALT CONCRETE	30'	50'
15"	ASPHALT CONCRETE	30'	50'
18"	ASPHALT CONCRETE	30'	50'
24"	ASPHALT CONCRETE	30'	50'
30"	ASPHALT CONCRETE	30'	50'
36"	ASPHALT CONCRETE	30'	50'
42"	ASPHALT CONCRETE	30'	50'
48"	ASPHALT CONCRETE	30'	50'
54"	ASPHALT CONCRETE	30'	50'
60"	ASPHALT CONCRETE	30'	50'
72"	ASPHALT CONCRETE	30'	50'
84"	ASPHALT CONCRETE	30'	50'
96"	ASPHALT CONCRETE	30'	50'
108"	ASPHALT CONCRETE	30'	50'
120"	ASPHALT CONCRETE	30'	50'
144"	ASPHALT CONCRETE	30'	50'
168"	ASPHALT CONCRETE	30'	50'
192"	ASPHALT CONCRETE	30'	50'
216"	ASPHALT CONCRETE	30'	50'
240"	ASPHALT CONCRETE	30'	50'

Pump, Goulds Model BFDHC-3 Stage, All 316SS, 8" Motor Adapter & 6" NPT Discharge, 316SS 4.375" Dia. Impellers, 316SS Bowl Shaft, Bolting, & Coupling, Vesconite Bearings with non-witnessed bowl performance test, hydrostatic bowl test, & 6" 316SS pipe nipple (11' long), 6" 316SS Check Valve, & 6" NPT to 6" Flange Adapter, 316SS.
(900 GPM @190FT TDH, 25FT NPSHr @ 400 GPM)



AVAILABILITY

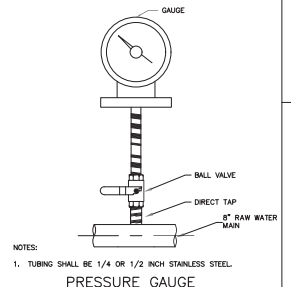
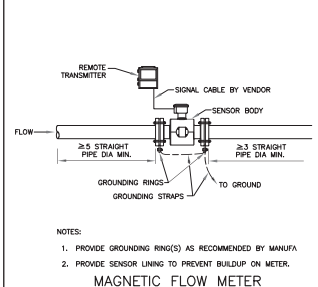
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4	01/22/2023	01/28/2023	WORKING
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9	02/26/2023	03/05/2023	WORKING
10	03/06/2023	03/12/2023	WORKING
11	03/13/2023	03/19/2023	WORKING
12	03/20/2023	03/26/2023	WORKING
13	03/27/2023	04/02/2023	WORKING
14	04/03/2023	04/09/2023	WORKING
15	04/10/2023	04/16/2023	WORKING
16	04/17/2023	04/23/2023	WORKING
17	04/24/2023	04/30/2023	WORKING
18	05/01/2023	05/07/2023	WORKING
19	05/08/2023	05/14/2023	WORKING
20	05/15/2023	05/21/2023	WORKING
21	05/22/2023	05/28/2023	WORKING
22	05/29/2023	06/04/2023	WORKING
23	06/05/2023	06/11/2023	WORKING
24	06/12/2023	06/18/2023	WORKING
25	06/19/2023	06/25/2023	WORKING
26	06/26/2023	07/02/2023	WORKING
27	07/03/2023	07/09/2023	WORKING
28	07/10/2023	07/16/2023	WORKING
29	07/17/2023	07/23/2023	WORKING
30	07/24/2023	07/30/2023	WORKING

CONSTRUCTION MATERIALS

MATERIAL	QUANTITY	UNIT
Asphalt Concrete	1500	SQ YD
Limerock Base	2000	SQ YD
Gravel	500	CY
Steel Pipe	100	FT
Ball Valve	1	EA
Direct Tap	1	EA
Grinding Rings	10	EA

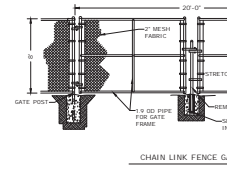
AGNOLI BARBER & BOUNDAGE, INC.
Professional Engineers, Planners, Surveyors & Landscape Architects
Certified of Authorization No. 10234-0101-00000000
State of Florida
2500 E. Bay Street, Suite 200
Naples, FL 34108
Phone: (239) 441-8100
Fax: (239) 441-8101

CITY OF NAPLES UTILITIES
380 RIVERSIDE CIR
NAPLES FL, 34102



PIPE RESTRAINT SCHEDULE

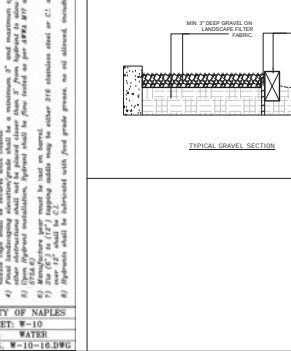
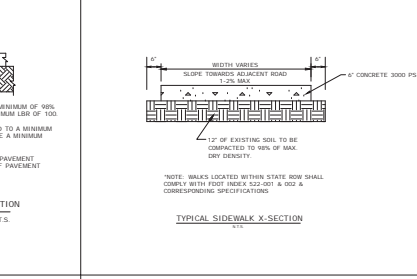
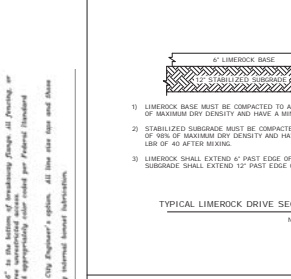
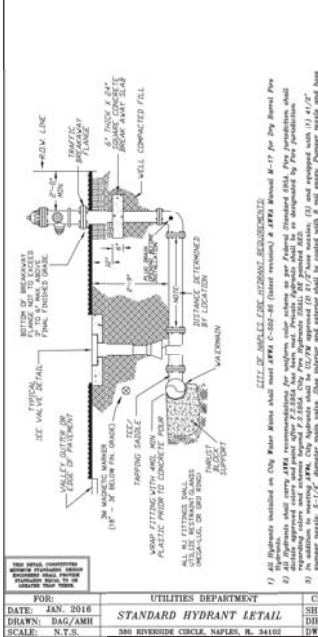
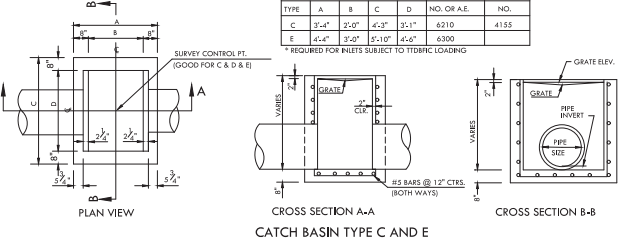
PIPE SIZE	RESTRAINT TYPE
12"	PIPE RESTRAINT
15"	PIPE RESTRAINT
18"	PIPE RESTRAINT
24"	PIPE RESTRAINT
30"	PIPE RESTRAINT
36"	PIPE RESTRAINT
42"	PIPE RESTRAINT
48"	PIPE RESTRAINT
54"	PIPE RESTRAINT
60"	PIPE RESTRAINT
72"	PIPE RESTRAINT
84"	PIPE RESTRAINT
96"	PIPE RESTRAINT
108"	PIPE RESTRAINT
120"	PIPE RESTRAINT
144"	PIPE RESTRAINT
168"	PIPE RESTRAINT
192"	PIPE RESTRAINT
216"	PIPE RESTRAINT
240"	PIPE RESTRAINT



* NOTE: ALL COMPONENTS THAT COME IN CONTACT WITH WATER SHALL BE NSF 61 CERTIFIED

CATCH BASIN DATA

TYPE	A	B	C	D	USF GRATE NO. OR A.E.	USF FRAME NO.
C	3'-4"	2'-0"	4'-3"	3'-11"	6210	4155
E	4'-4"	3'-0"	5'-10"	4'-6"	6300	



FOR: UTILITIES DEPARTMENT
DATE: JAN. 2018
DRAWN: DAG/AMH
SCALE: N.T.S.
380 RIVERSIDE CIRCLE, NAPLES, FL 34102

SHEET: W-10
DIR: WATER
DWG: W-10-14-DWG

CITY OF NAPLES UTILITIES
PROJECT NAME: CITY OF NAPLES WELL 408
DRAWING TITLE: DETAILS - 2

DESIGNED BY: ABB
DRAWN BY: AGC
CHECKED BY: KAF
REVIEWED BY: KAF
DATE: 08/21/2023

ACAD FILE NAME: 13008 - CVR
ABB PROJECT # 21-0174
PILOT VIEW 1 LAYOUT 08 - DTLS-2
SHEET 08
OF 09
ACAD FILE # 13008

