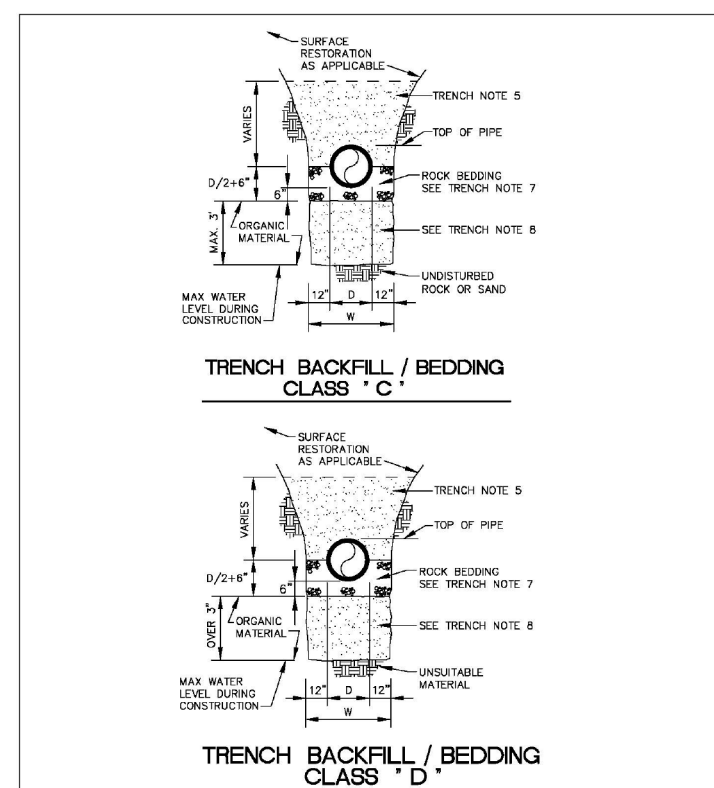


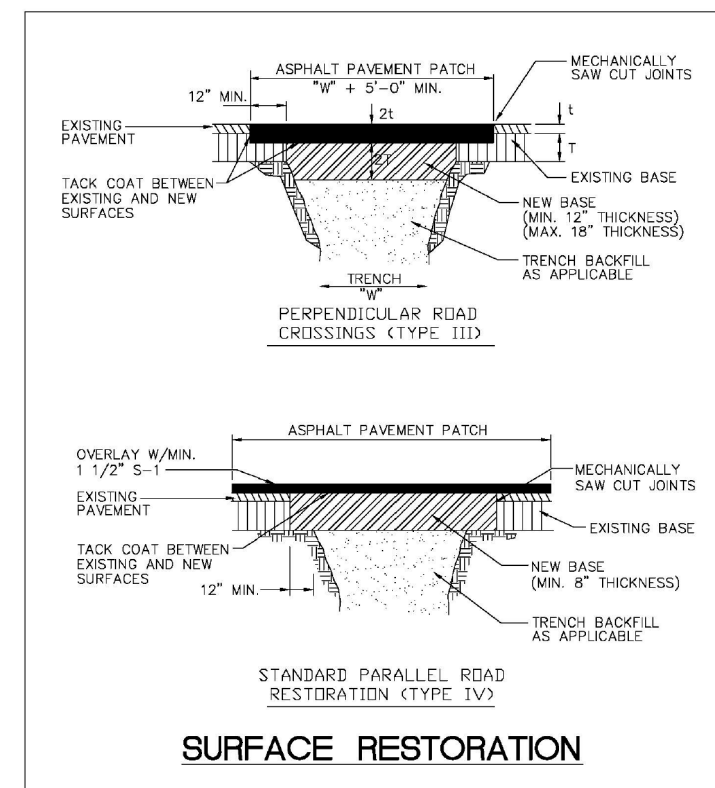
ENGINEERING STANDARDS 2025			
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	TRENCH BACKFILL / BEDDING
BY	DATE		
S.S.	JUNE 2020		
SCALE: N.T.S.		DATE: JUNE 2020	DWG. NO.
			203-1

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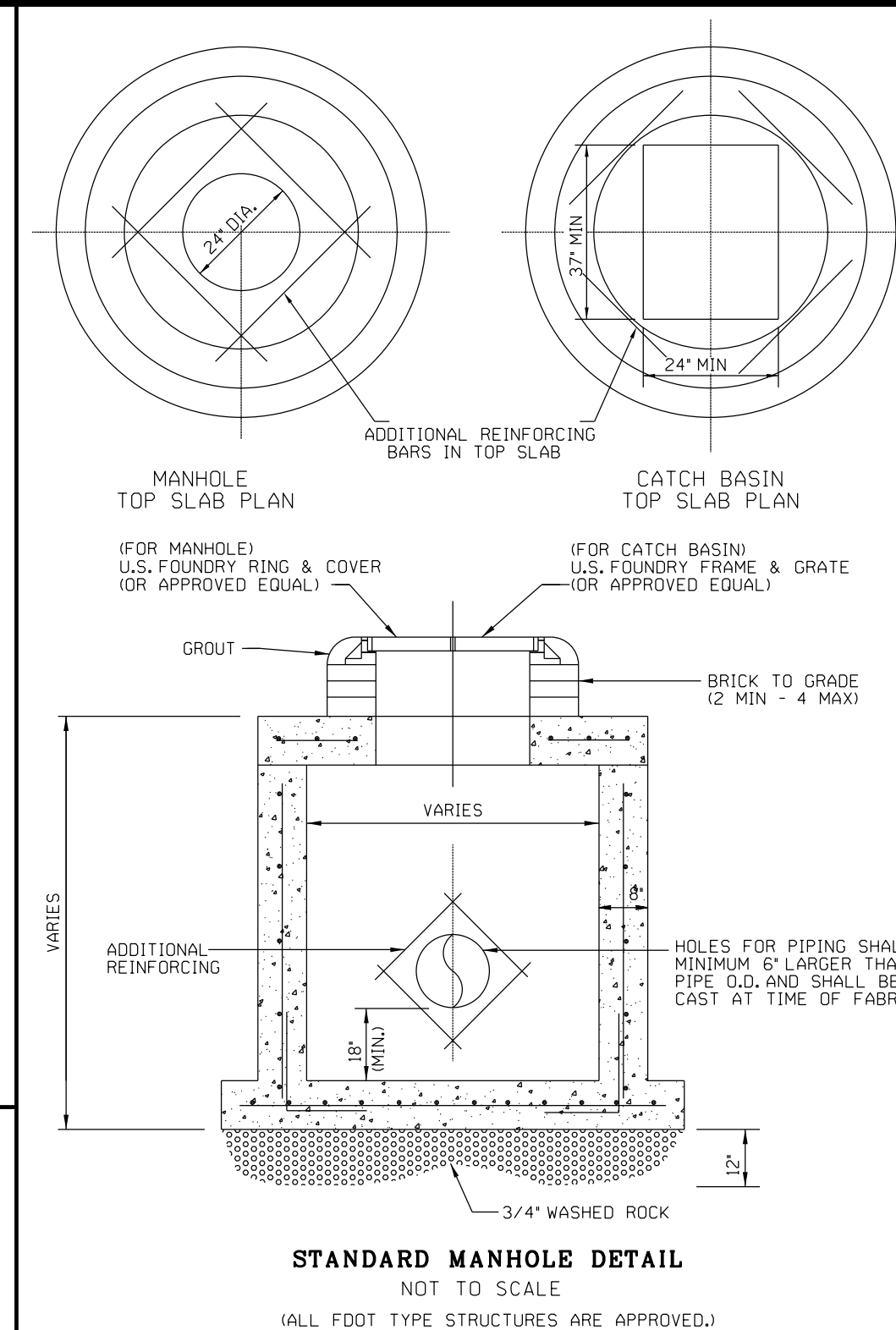
ENGINEERING STANDARDS 2025			
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	TRENCH BACKFILL / BEDDING
BY	DATE		
S.S.	JUNE 2025		
SCALE: N.T.S.		DATE: JUNE 2025 DWG. NO.	202-3

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ENGINEERING STANDARDS 2025			
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	SURFACE RESTORATION
BY	DATE		
SCALE: N.T.S.		DATE: MAY 2022 DWC. NO.	505-1

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USF 105-M MANHOLE COVERS SHALL BE "WATERTIGHT" WATERTIGHT "O" RING SHALL BE USED PER US FOUNDRY

STORM DRAIN MANHOLE LIDS (2)
USF 105-M RIM 8.67

8" TYP

15" RCP
INV N 3.40

6" CONC. BAFLE
18"

4"
FLOW TOP EL

ELEV (+) 4.00

1.5'

2.5'

FLOW

6" 8" TYP

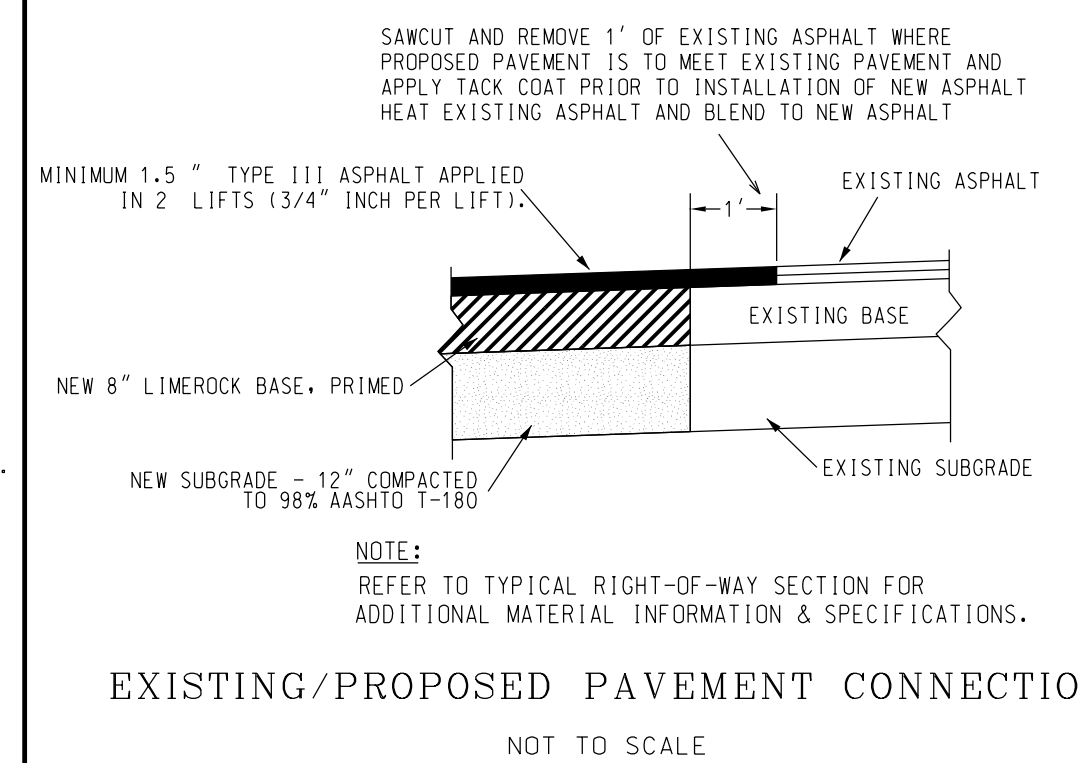
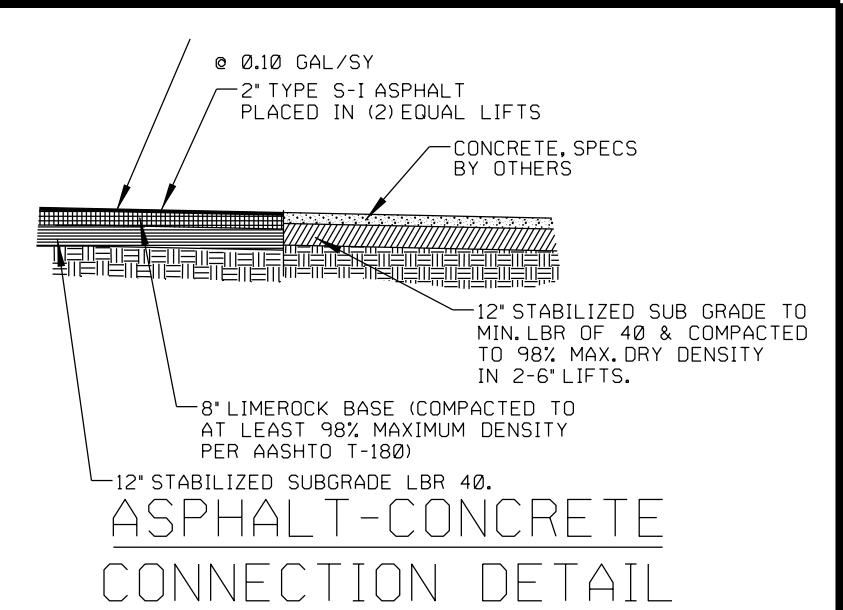
3/4" WASHED ROCK

8" 8"

7.0'

PROPOSED WELL, 24" DIAMETER, 10' DEEP, 10' LONG, 200 GPM FT HEAD, ACTUAL RATE TO BE CONFIRMED AFTER CONSTRUCTION

PROFILE



1. OUTLINE OF TRENCH EXCAVATION IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL TRENCH WIDTH AND SHAPE WILL VARY WITH SOIL CONDITIONS.
2. TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING TRENCH SAFETY ACT AND OSHA TRENCH SAFETY STANDARDS.
3. TYPICAL TRENCH BACKFILL/BEARING FOR WATER MAIN AND FORCE MAIN INSTALLATION SHALL BE UNDISTURBED NATURAL OR COMPACTED MATERIAL.
4. TYPICAL TRENCH BACKFILL/BEARING FOR GRAVITY SEWER SHALL BE UNDISTURBED MATERIAL OR "3" AS SHOWN IN DETAIL.
5. TRENCH BACKFILL/BEARING SHALL BE UNDISTURBED OR "3" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSTABLE TRENCH MATERIALS ARE DETECTED.
6. TRENCH ZONE BACKFILL SHALL BE MATERIAL TYPE 1 OR TYPES A THRU H OR AN MIXTURE THEREOF; WHERE SURFACE REGISTRATION TYPE "1" MATERIAL IS NOT AVAILABLE, TYPE 1 OR TYPES A THRU H SHALL BE COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST. TRENCH ZONE BACKFILL SHALL BE PLACED AT 4" TO 6" LAYERS AND COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY BY THE STANDARD PROCTOR TEST. TRENCH ZONE BACKFILL SHALL BE DETERMINED BY TYPE 1 OR TYPES A THRU H (ASTM 1557-99).
7. BEGINS MATERIAL FOR TYPICAL WATER MAIN AND FORCE MAIN INSTALLATION SHALL BE UNDISTURBED NATURAL OR COMPACTED MATERIAL. THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST SHALL BE USED TO DETERMINE THE REQUIRED DENSITY OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST.
8. BEGINS MATERIAL FOR TYPICAL GRAVITY SEWER INSTALLATION AND ANY INSTALLATION WHERE UNSTABLE TRENCH BOTTOM CONDITIONS ARE DETECTED SHALL BE UNDISTURBED NATURAL OR COMPACTED MATERIAL NOT EXCEED 4" AND COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY BY THE STANDARD PROCTOR TEST. TRENCH ZONE BACKFILL SHALL BE DETERMINED BY TYPE 1 OR TYPES A THRU H (ASTM 1557-99).
9. UNDESIRABLE MATERIAL SHALL BE REMOVED TO UNDISTURBED ROCK OR SAND OR TO DEPTH AS SPECIFIED BY ENGINEER. BACKFILL MATERIAL SHALL BE UNDISTURBED NATURAL OR COMPACTED MATERIAL NOT EXCEED 4" TO 6" LAYERS AND COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST.

ENGINEERING STANDARDS 2025			
REVISIONS BY DATE 		TRENCH BACKFILL / BEDDING 	
ENGINEERING DIVISION CITY OF POMPANO BEACH SCALE: N.T.S.		DATE: JUNE 2022 DRA. NO. 203-3	

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9. SECOND TYPES B – THE FOLLOWING TYPES OF SUITABLE MATERIALS ARE DESIGNATED AND DEFINED AS FOLLOWING:
- TYPE A: CRUSHED LIMESTOCK OR SAND WITH 100 PERCENT PASSING A 1 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.
- TYPE B: CRUSHED LIMESTOCK OR SAND WITH 100 PERCENT PASSING A 1/2 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.
- TYPE C: SAND WITH 100 PERCENT PASSING A 3/8 INCH SIEVE, AT LEAST 80 PERCENT PASSING A NUMBER 4 SIEVE, AND A SAND EQUIVALENT VALUE NOT LESS THAN 30.
- TYPE D: CRUSHED LIMESTOCK WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NOT MORE THAN 10 PERCENT A NUMBER 4 SIEVE.
- TYPE E: CRUSHED LIMESTOCK OR SAND WITH 100 PERCENT PASSING A 3/4 INCH SIEVE, AND NOT MORE THAN 10 PERCENT PASSING A NUMBER 4 SIEVE.
- TYPE F: CRUSHED LIMESTOCK MEETING THE FOLLOWING GRADATION REQUIREMENTS.

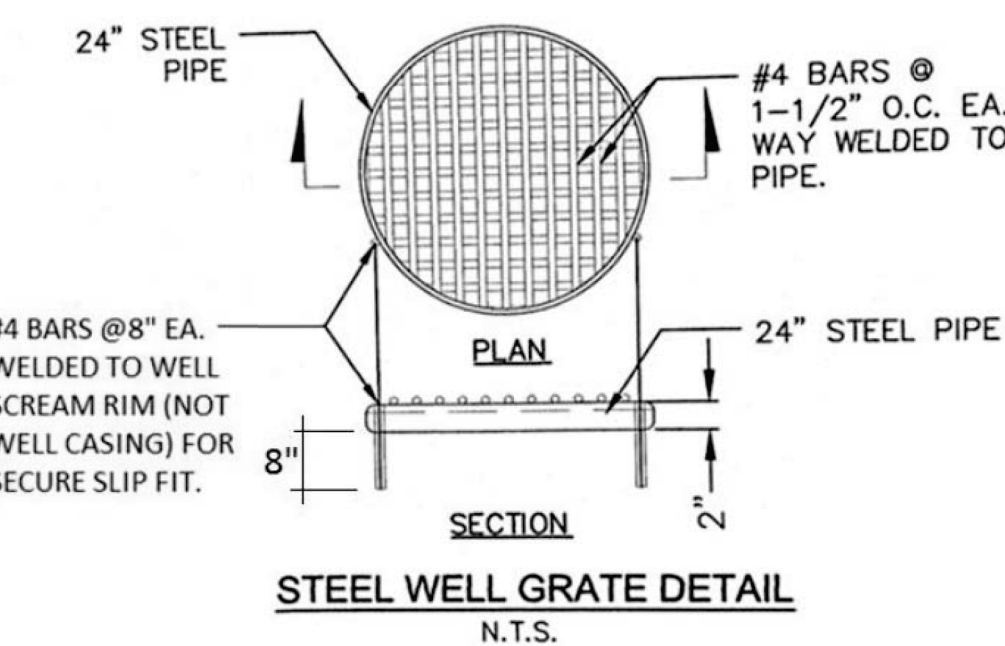
SEVE SIZE	PERCENTAGE PASSING
2 INCH	100
1-1/2 INCH	90-100
1 INCH	20-55
3/4 INCH	0-15
NO. 200	0-3

		<u>TRENCH BACKFILL / BEDDING NOTES</u>	
		<u>ENGINEERING STANDARDS 2025</u>	
REVISIONS		ENGINEERING DIVISION CITY OF POMPAHO BEACH	TRENCH BACKFILL / BEDDING
BY	DATE		
SCALE: N.T.S.		DATE: JUNE 2022 DWG. NO. 203-4	

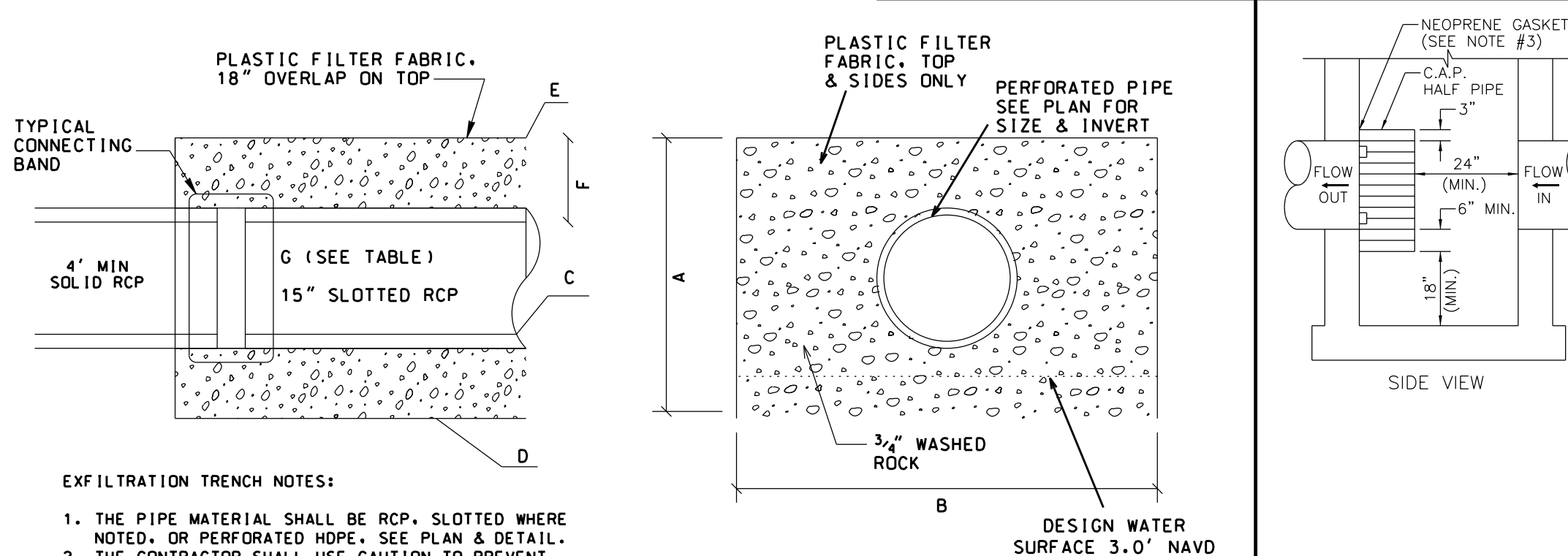
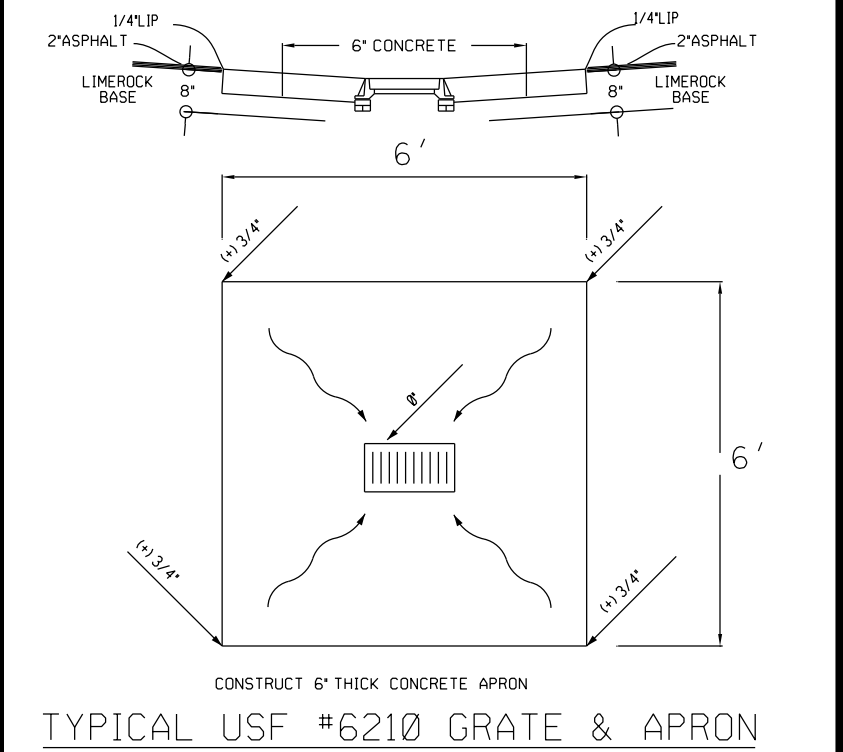
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Jaffer
WELL DRILLING

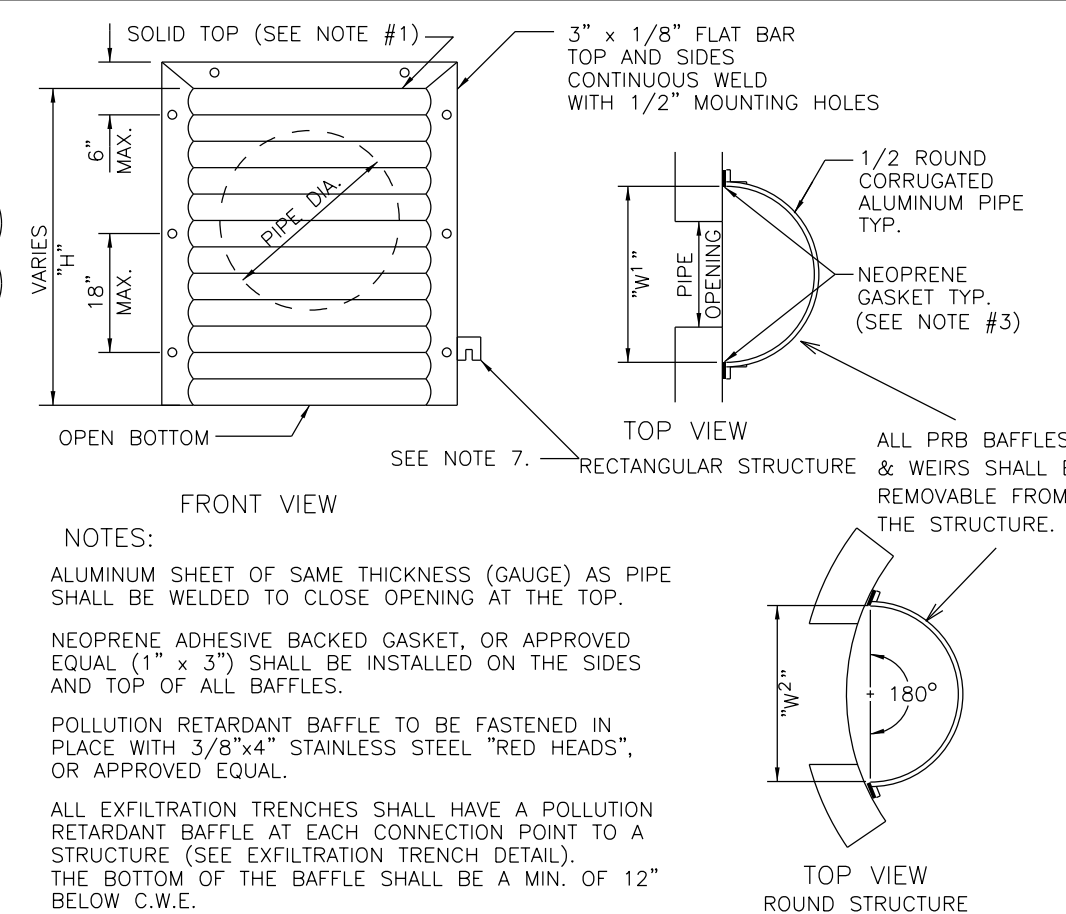
Jaffer Well Drilling, a Division
of A.C. Schultes of Florida, Inc.
1451 SE 9th Court
Hialeah, FL 33010
Dade: 305/576-7363
Broward: 954/523-6669



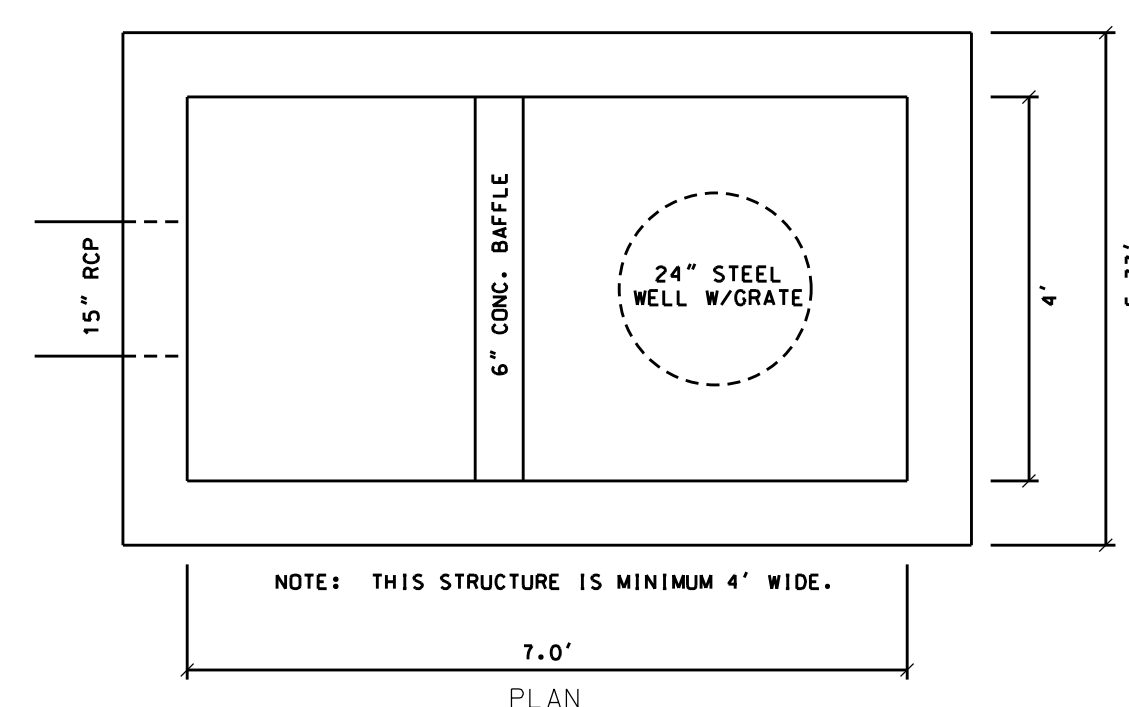
NOTE: WELL SCREENS SHALL BE SECURED & TAMPERPROOF,
BUT REMOVEABLE IN THE EVENT OF WELL MAINTENANCE.



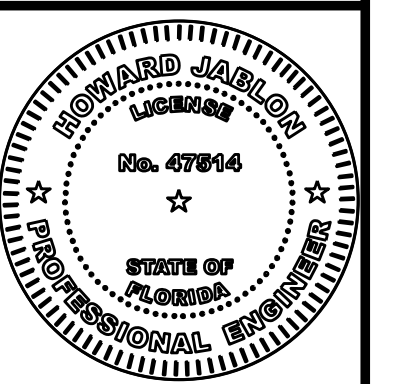
TRENCH TYPE	A (FT)	B (FT)	C NAVD	D NAVD	E NAVD	F (FT)	G (IN)
1	5'	10'	3.50	1.25	6.25	1.50'	15"
2	2.5'	5'	3.50	3.00	5.50	0.75'	15"



PIPE DIA.	W ¹ (IN)	W ² (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES



WELL & CONTROL STRUCTURE #CS 100
NOT TO SCALE



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED
BY HOWARD E JABLON ON THE DATE ADJACENT TO THE
SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT
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MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

[illegible]

AJ HYDRO
ENGINEERING, INC.
5932 NW 73RD COURT
PARKLAND, FL 33067
TEL (954) 347-3397
AJHYDRO@BELLSOUTH.NET

PROJECT:

TITLE:

PAVING, GRADING, & DRAINAGE DETAILS

SEAL:	DATE:
	05/04/25
	DRAWING NO.
	25-0110
	SHEET NO.
HOWARD JABLON, PE #47514	PD4 OF 5

ATLANTICO