

SUMMARY OF QUANTITIES 

NO.	PAY ITEM NO.	DESCRIPTION	UNIT	S2 DRAINAGE		SE 3 rd ST						GRAND TOTAL	
				PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
1	101-1	MOBILIZATION	LS	1									1
2	102-1	MAINTENANCE OF TRAFFIC	LS	1									1
3	104-10-3	SEDIMENT BARRIER	LF	2091									2091
4	104-18	INLET PROTECTION	EA	21									21
5	110-1-1	CLEARING AND GRUBBING	LS	1									1
6	110-23	TREE REMOVAL	EA	2									2
7	425-1-521	INLET, STRUCTURE BOTTOM TYPE P WITH TYPE C INLET GRATE	EA	21									21
8	425-1-521A	MANHOLE, STRUCTURE BOTTOM TYPE P WITH TYPE 7 TOP	EA	1									1
9	425-100-38	WEIR BOX, DRAINAGE CONTROL STRUCTURE WITH GRATES	EA	1									1
10	430-174-118	PIPE CULVERT OPTIONAL MATERIAL ROUND, 18" SD	LF	904									904
11	430-174-124	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 24" SD	LF	1521									1521
12	430-524-100	STRAIGHT CONCRETE ENDWALL FOR OUTFALL, 24" DIA. OPENING	EA	1									1
13	430-982-129	OUTFALL, MITERED END SECTION, 24" DIA. CD	EA	1									1
14	443-70-3	FRENCH DRAIN, 18"	LF	330									330
15	443-70-4	FRENCH DRAIN, 24"	LF	380									380
* 16	530-1-100	RIP-RAP SAND CEMENT BAGS, OUTFALL	CY	2									2
* 17	530-3-3	RIP-RAP RUBBLE, OUTFALL	CY	15.5									15.5
18	570-1-2	PERFORMANCE TURF, SDD	SY	2090									2090
19	160-4	TYPE B STABILIZATION (LBR 40)	SY			428							428
20	285-7-09	OPTIONAL BASE GROUP 6 (LIMEROCK, LBR 100)	SY			428							428
21	327-70-7	MILLING EXIST. ASPHALT PAVEMENT, 1.5"	SY			2574							2574
22	334-1-13	SUPERPAVE APHALTIC CONC. TRAFFIC C	TN			352							352
23	425-5	MANHOLE, ADJUST	EA			2							2
24	706-1-3	RAISED PAVEMENT MARKERS TYPE B	EA			32							32
25	711-15-201	THERMOPLASTIC, STANDARD OP, YELLOW, SOLID 6"	GM			0.07							0.07
26	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID 24"	LF			63							63
27		RECORD DRAWINGS	LS	1									1
28		PRECONSTRUCTION VIDEO TAPING	LS	1									1
* 29		PRECONSTRUCTION SURVEY (FOR WATER AND SEWER LINE CONFLICTS)	LS	1									1


NOTE:
 1. WHERE DRAINAGE PIPE TRENCH CROSSES EXISTING ROADS OR DRIVEWAYS, COST TO REPAIR WILL BE INCLUDED IN COST PAY ITEM LINES 10 AND 11.
 2. PAY LINE ITEM 29 IS FOR PRECONSTRUCTION SURVEY FOR WATER AND SEWER CONFLICTS AS PER ADDENDUM 1.

 * ADDED/REVISED PAY ITEM PER ADDENDUM 1 DATED 01/10/2024



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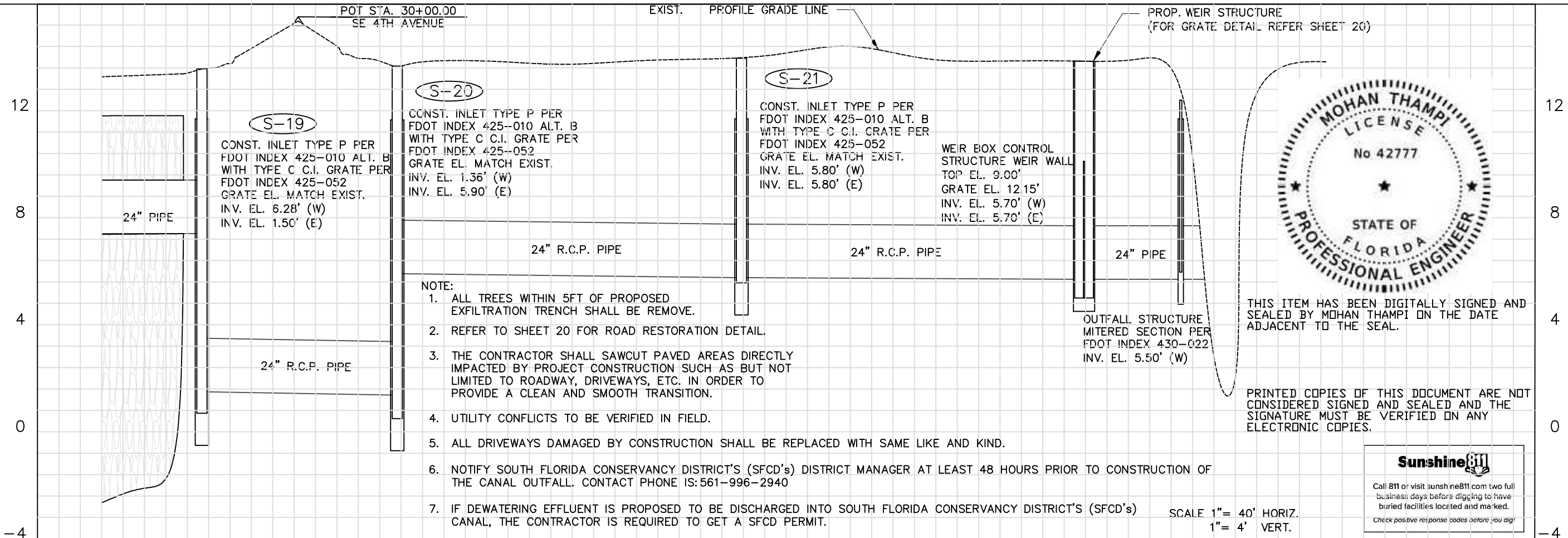
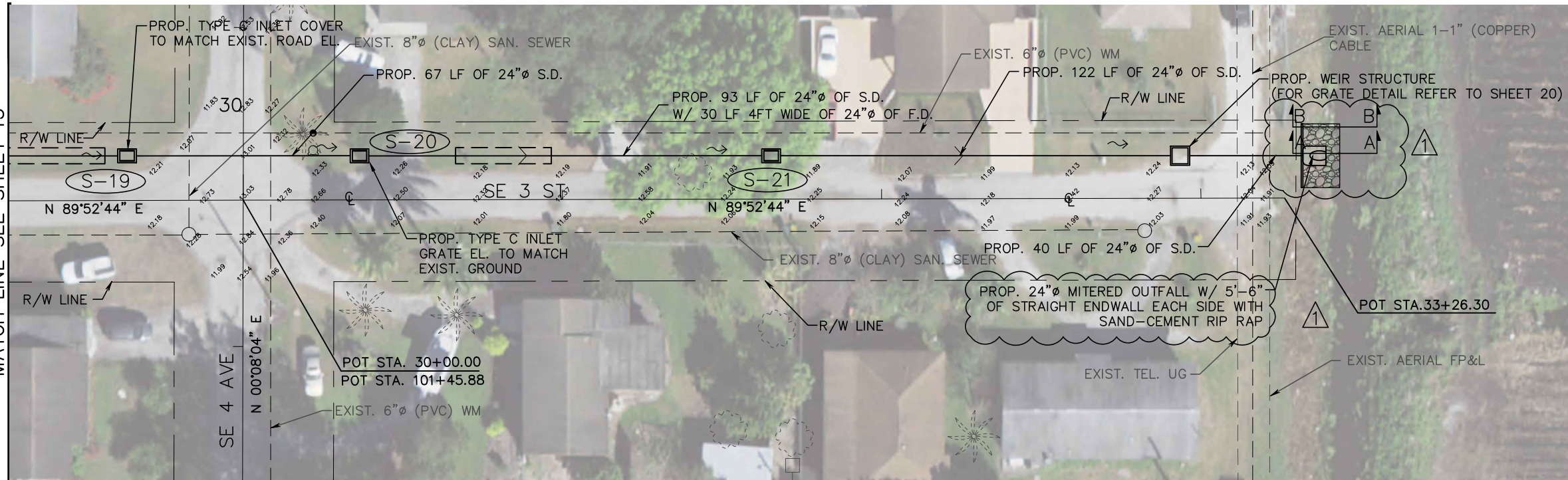
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REVISIONS		MOHAN THAMPI, P.E.		CITY OF SOUTH BAY			SUMMARY OF QUANTITIES DRAINAGE	SHEET NO.
DATE	DESCRIPTION	DATE	P.E. NO.: 42777	DRAWN BY:	COUNTY	FDEP AGREEMENT #		
01/10/24	 ADDENDUM 1		CAP ENGINEERING, INC 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	R.A.	PALM BEACH	LP50102		02

ADDENDUM 1 FOR ITB 2023-03 DATED 01/10/2024

NOT FOR CONSTRUCTION FOR BIDDING PURPOSES ONLY

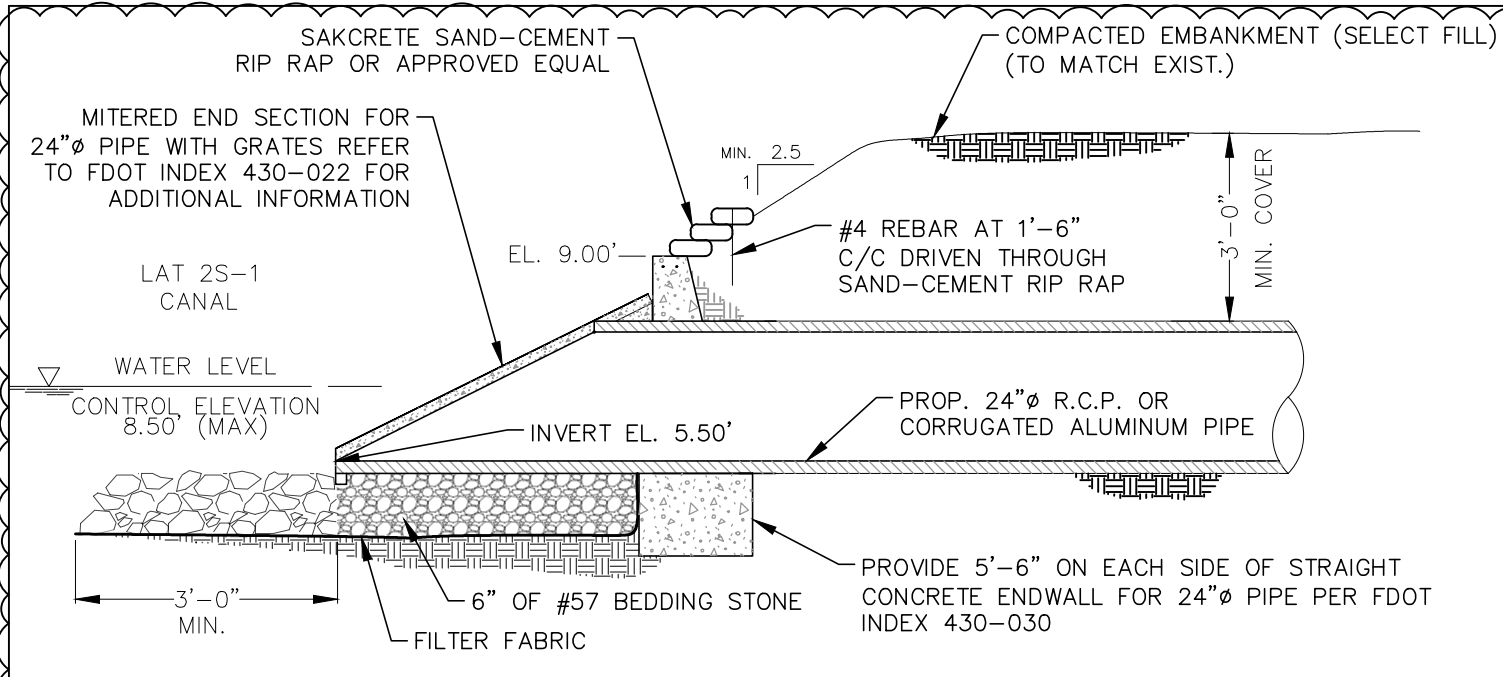
MATCH LINE SEE SHEET 15



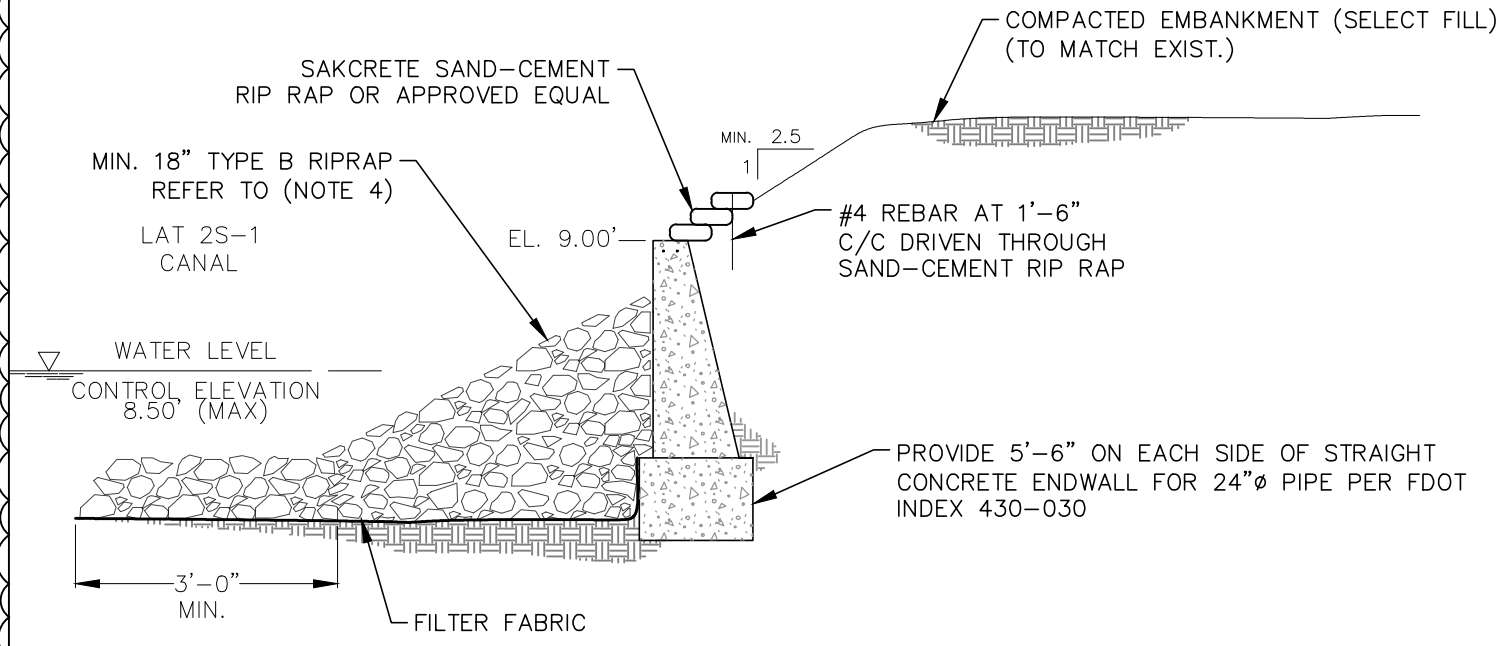
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DATE	DESCRIPTION	DATE	P.E. NO.: 42777	DRAWN BY:	COUNTY	FDEP AGREEMENT #	
01/10/24	ADDENDUM 1		CAP ENGINEERING, INC 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	R.A.	PALM BEACH	LP50102	<p>PLAN AND PROFILE</p> <p>16</p>

ADDENDUM 1 FOR ITB 2023-03 DATED 01/10/2024

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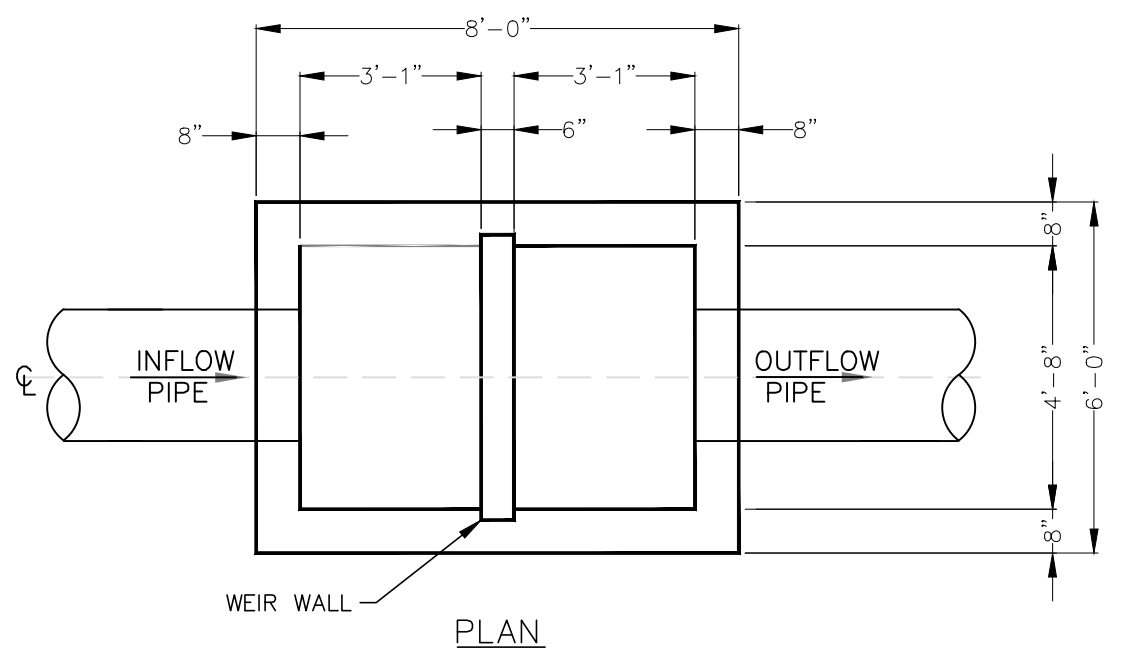


SECTION A-A



SECTION B-B

- NOTE:
1. CONTRACTOR TO PLACE SILICA SAND COLLAR, TYPE 1 AND TYPE 2 GRADED GRAVEL ON PROTECTED SIDE ONLY.
 2. PROVIDE TYPE B ON PROTECTED SIDE ONLY AS WELL AS LOCATIONS WHERE REQUIRED BY SITE CONDITIONS TO STABILIZE THE BANK SURFACE.
 3. ALL EXISTING DIMENSIONS SHALL BE VERIFIED IN THE FIELD.
 4. THE CONTRACTOR TO PROVIDE 5'-6" OF RIPRAP STABILIZATION FROM FACE OF PIPE ON BOTH SIDES.
 5. THE CONTRACTOR SHALL COMPACT BACKFILL TO MIN. 95% PROCTOR.



PLAN

WEIR STRUCTURE TABLE										
STANDARD DETAIL	WIDTH (FT)	LENGTH (FT)	HEIGHT (FT)	WALL THICKNESS (IN)	WALL STEEL	TOP SLAB THICKNESS (IN)	TOP SLAB STEEL	BOTTOM SLAB THICKNESS (IN)	BOTTOM SLAB STEEL	BOTTOM SLAB OVERHANG (IN)
5.2-2C	6.00	8.00	5.1 - 10.0	8	#7@9"H #4@10"V	10	#6@6"E.W.	10	#4@8"E.W.	12

5.2-2C - POLLUTION CONTROL STRUCTURE 2 CHAMBER

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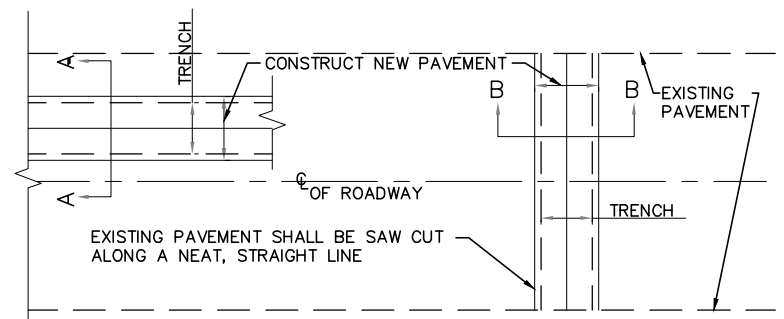
WEIR NOTES:

1. REFER TO SHEET 18 FOR ADDITIONAL INFORMATION.
2. CAST TOP SLAB TO FIT WALL USED.
3. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
4. USE 4000 PSI CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
5. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
6. IF USING THE FIRST CHAMBER AS AN INLET, A BAFFLE IS REQUIRED BEFORE THE FINAL OUTLET POINT.
7. NOTIFY SOUTH FLORIDA CONSERVANCY DISTRICT'S (SFCD's) DISTRICT MANAGER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF THE CANAL OUTFALL. CONTACT PHONE IS: 561-996-2940.
8. IF DEWATERING EFFLUENT IS PROPOSED TO BE DISCHARGED INTO SOUTH FLORIDA CONSERVANCY DISTRICT'S (SFCD's) CANAL, THE CONTRACTOR IS REQUIRED TO GET A SFCD PERMIT.

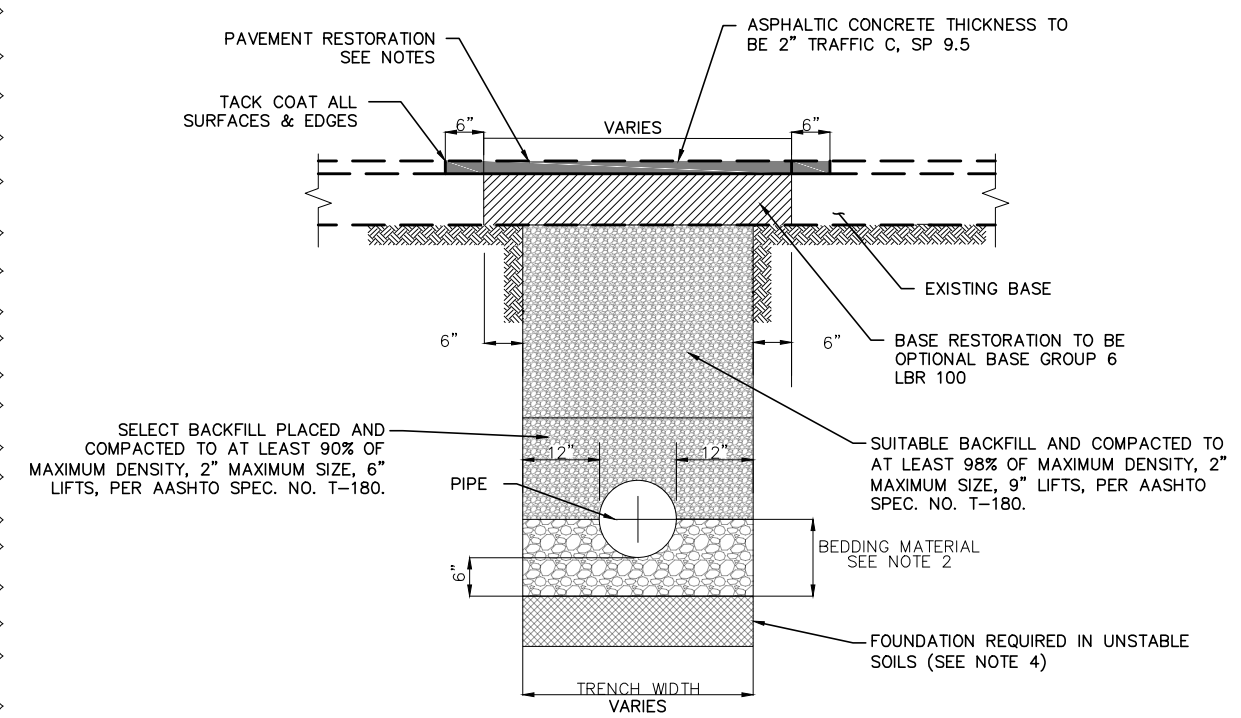
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01/10/24	1	ADDENDUM 1							DRAWN BY:	COUNTY	FDEP AGREEMENT #	<p style="text-align: center;">DRAINAGE DETAILS</p> <p style="text-align: center;">19</p>	
					R.A.				PALM BEACH	LP50102			

ADDENDUM 1 FOR ITB 2023-03 DATED 1/10/2024

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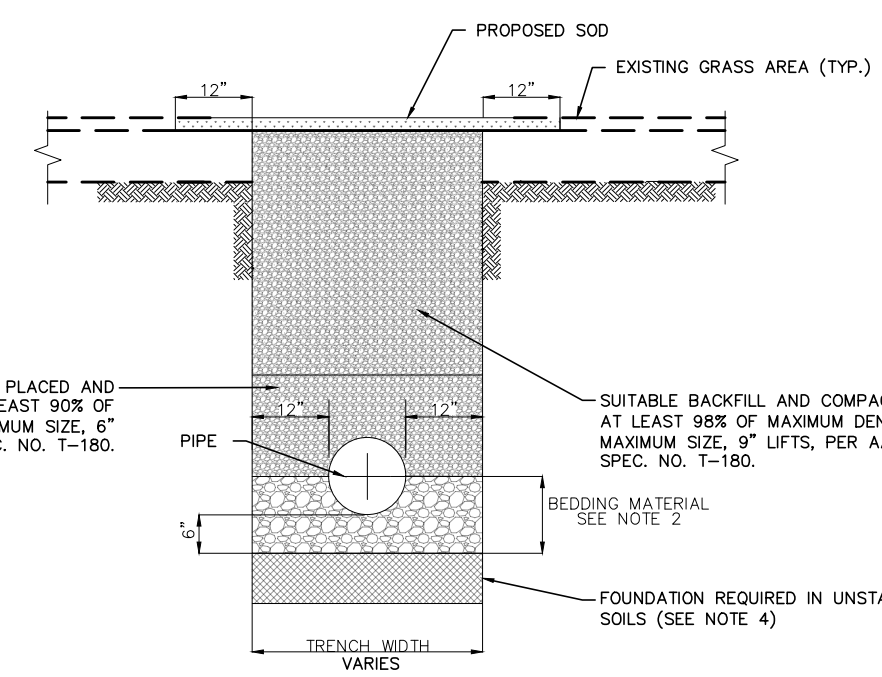
PLAN



NOTES:

1. FOR EXCAVATION AND BACKFILL AROUND MANHOLES, OR IN WATER, REFER TO PROVISIONS WITHIN THE SPECIFICATIONS.
2. UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAX. SIZE, OR WASHED AND GRADED LIMEROCK (3/8"-7/8"), COMPACTED TO AT LEAST 90% OF MAX DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T180.
3. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
4. WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC AND CLAYS BELOW THE WATER TABLE, A FOUNDATION IS REQUIRED FOR EXTREMELY POOR CONDITIONS.
5. POLYETHYLENE ENCASUREMENT OF CAST IRON VALVES, PIPE AND FITTINGS, IF REQUIRED BY DEPARTMENT, SHALL BE PER ANSI/AWWA C105/A21.5, METHOD A, B, OR C FOR TYPE 1 CLASS C TUBE, MIN. 8 MILS THICK.
6. NO COMPACTION IS REQUIRED BELOW THE WATER TABLE.
7. WHERE TRENCH CUTS THROUGH EXIST. PAVEMENT, RESTORE PAVEMENT AS SHOWN. IN NON PAVEMENT AREAS PLACE SOD AFTER BACKFILL.
8. FOR CONCRETE OR PAVED/TILED PAVEMENTS REPAIR WITH SIMILAR MATERIAL.

TYPICAL TRENCH DETAIL FOR PIPE IN ROAD & DRIVEWAY



TYPICAL TRENCH IN GRASS AREA FOR PIPE

SELECT BACKFILL PLACED AND COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY, 2" MAXIMUM SIZE, 6" LIFTS, PER AASHTO SPEC. NO. T-180.

SUIABLE BACKFILL AND COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY, 2" MAXIMUM SIZE, 9" LIFTS, PER AASHTO SPEC. NO. T-180.




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DATE	DESCRIPTION	DATE		DRAWN BY:	COUNTY	FDEP AGREEMENT #	
01/10/24	ADDENDUM 1			R.A.	PALM BEACH	LP50102	20
MISCELLANEOUS DETAILS							

ADDENDUM 1 FOR ITB 2023-03 DATED 01/10/2024

NOT FOR CONSTRUCTION FOR BIDDING PURPOSES ONLY

SUMMARY OF QUANTITIES 



NO.	PAY ITEM NO.	DESCRIPTION	UNIT	SE 1 st ST.		SE 2 nd ST		SE 4 th ST		Coconut Ct.		GRANDTOTAL	
				PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
30	101-1	MOBILIZATION	LS	1									1
31	102-1	MAINTENANCE OF TRAFFIC	LS	1									1
32	110-1-1	CLEARING AND GRUBBING	LS	1									1
33	110-7-1	MAILBOX, F&I	EA			1							1
* 34	160-4	TYPE B STABILIZATION (LBR 40)	SY	158		71		157					386
* 35	285-70-9	OPTIONAL BASE GROUP 06 (LIMEROCK, LBR100)	SY	47		71		157		72			347
36	327-70-7	MILLING EXIST ASPHALT PAVEMENT, 1.5"	SY	987		563		597		643			2790
* 37	334-1-13	SUPERPAVE ASPHALT CONC. TRAFFIC C, 2.0"	TN	115		69		80		81			345
38	425-5	MANHOLE ADJUST	EA	3		1		1		1			6
39	425-6	WATER VALVE ADJUST	EA	1		1							2
40	570-1-2	PERFORMANCE TURF, SDD	SY	57		35							92
41	706-1-3	RAISED PAVEMENT MARKERS TYPE B	EA	8		4		5		4			21
* 42	710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS										1
* 43	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID 24"	LF	19		9		9		9			46
* 44	711-15-201	THERMOPLASTIC, STANDARD OP, YELLOW, SOLID 6"	GM	0.02		0.02		0.02		0.02			0.08

 * PAY ITEMS REVISED PER ADDENDUM NO. 1 DATED 01/10/24



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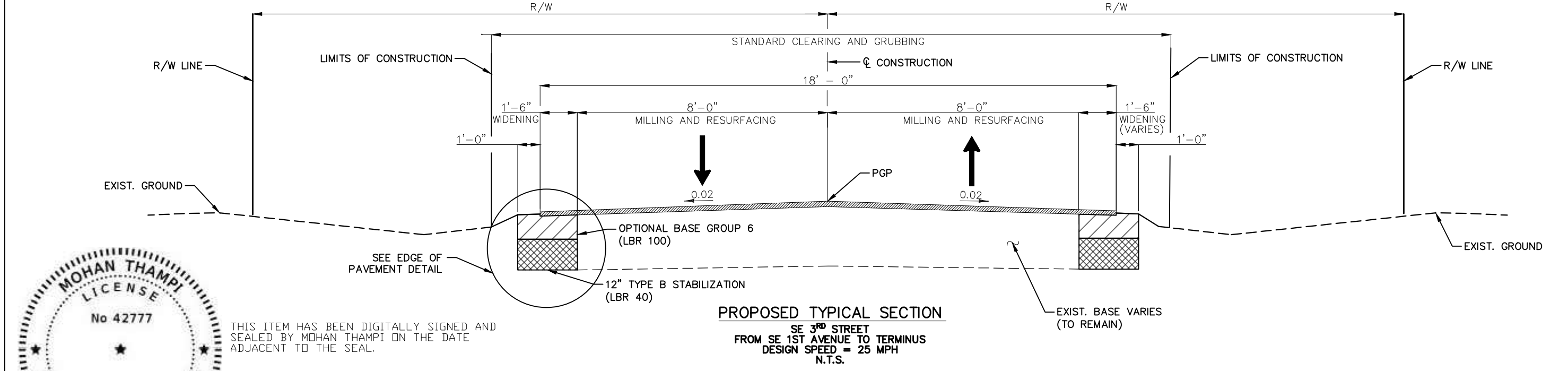
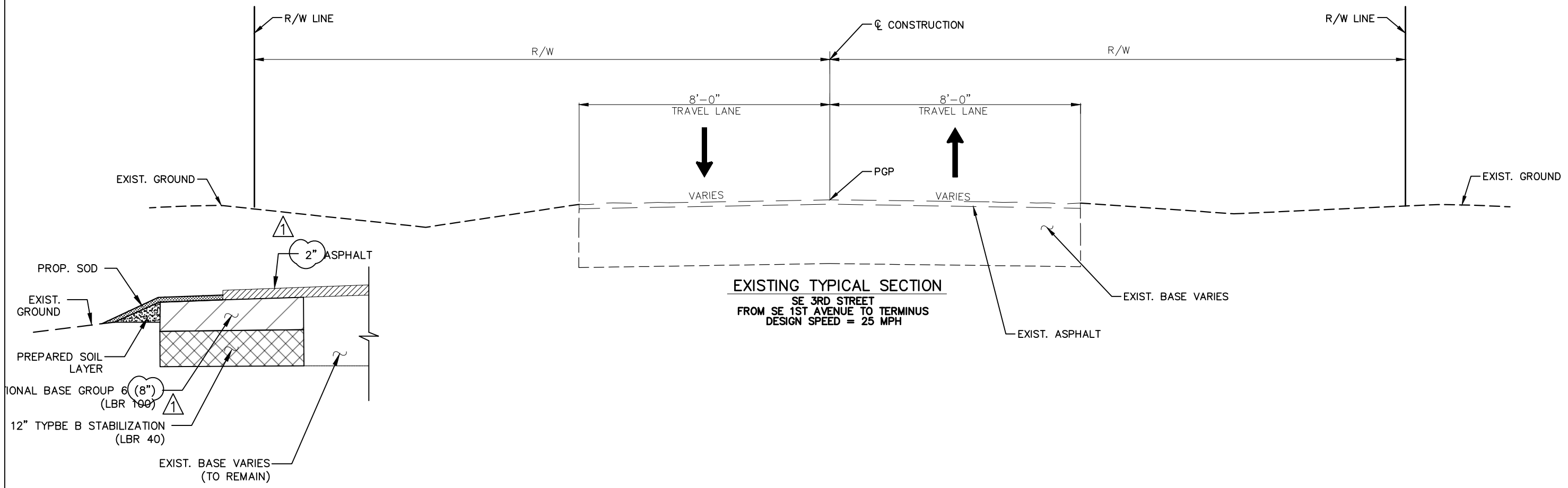
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			SUMMARY OF QUANTITIES								

ADDENDUM 1 FOR ITB 2023-03 DATED 01/10/2024

NOT FOR CONSTRUCTION FOR BIDDING PURPOSES ONLY

ADDENDUM 1 FOR ITB 2023-03 DATED 01/10/2024

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY



EXISTING TRAVEL LANES
MILL EXISTING ASPHALT PAVEMENT (1 1/2" DEPTH)
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")



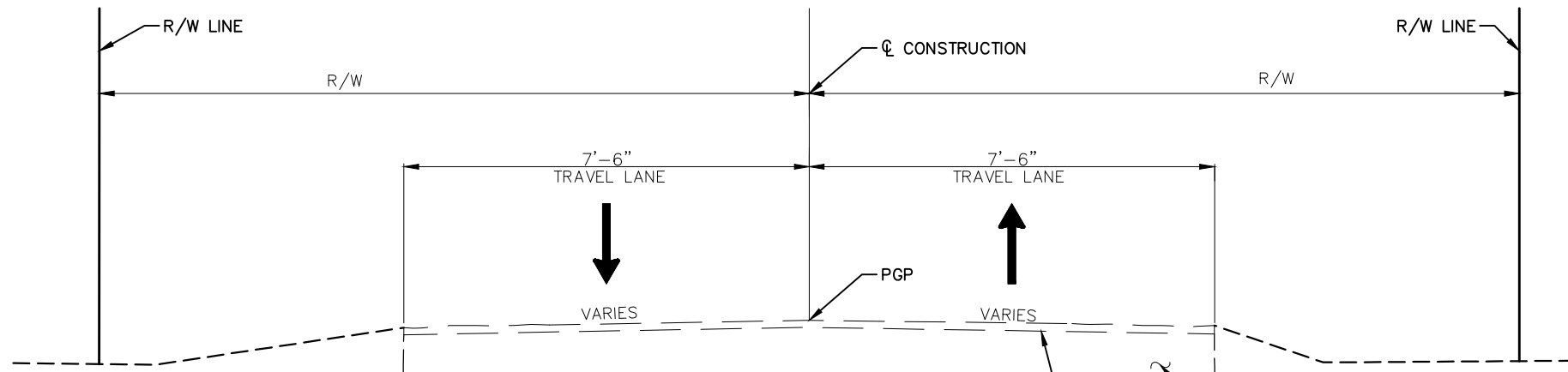
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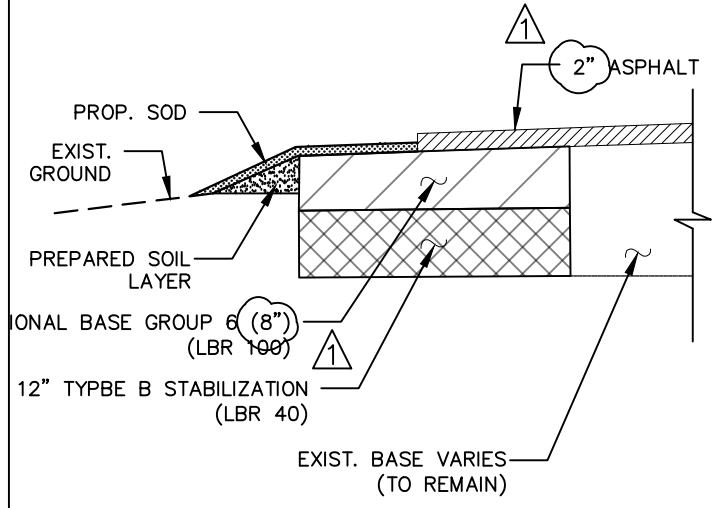
REVISIONS		MOHAN THAMPI, P.E.		CITY OF SOUTH BAY			SHEET NO.
DATE	DESCRIPTION	DATE		DRAWN BY:	COUNTY	FDEP AGREEMENT #	
01/10/24	ADDENDUM 1			R.A.	PALM BEACH	LP50102	TYPICAL SECTION 37

ADDENDUM 1 FOR ITB 2023-03 DATED 01/10/2024

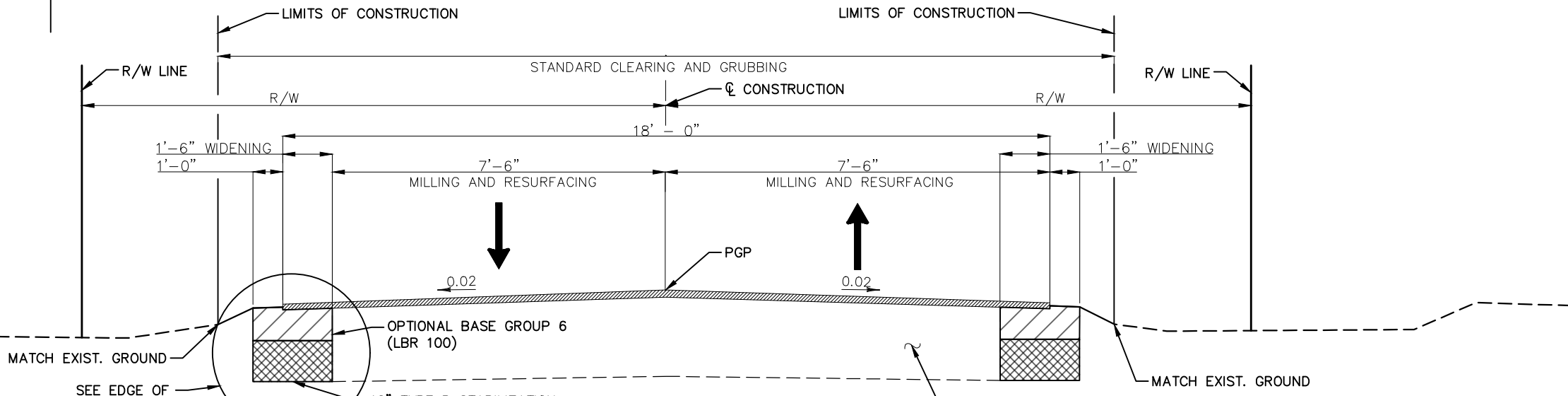
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EXISTING TYPICAL SECTION
SE 1ST STREET
FROM SE 4TH AVENUE TO TERMINUS
DESIGN SPEED = 25 MPH



**EDGE OF PAVEMENT
DETAIL**



PROPOSED TYPICAL SECTION
SE 1ST STREET
FROM SE 4TH AVENUE TO TERMINUS
DESIGN SPEED = 25 MPH
N.T.S.

EXISTING TRAVEL LANES
MILL EXISTING ASPHALT PAVEMENT (1 1/2" DEPTH)
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")



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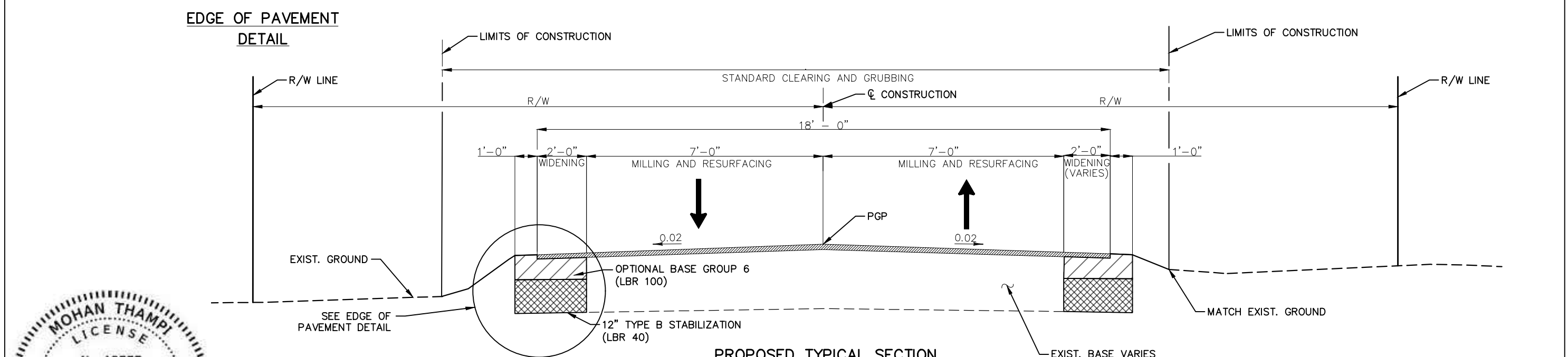
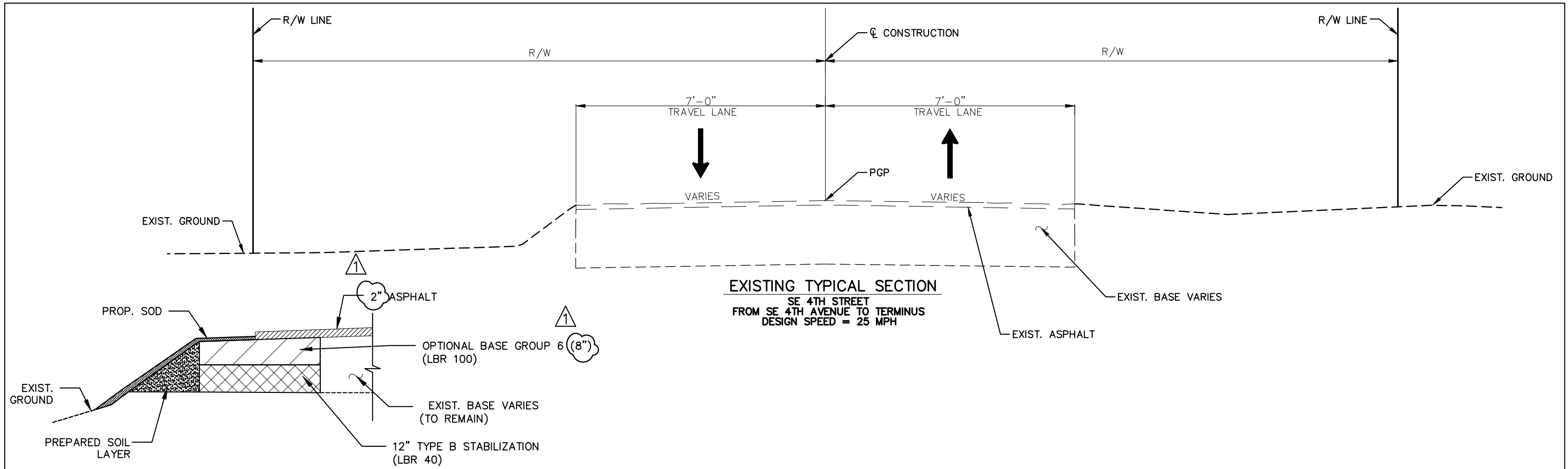
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OPTION A

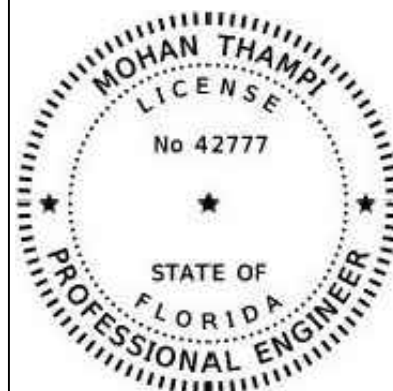
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DATE	DESCRIPTION	DATE		DRAWN BY:	COUNTY	FDEP AGREEMENT #	
01/10/24	ADDENDUM 1			R.A.	PALM BEACH	LP50102	<i>TYPICAL SECTION</i>
			capengineering				

ADDENDUM 1 FOR ITB 2023-03 DATED 01/10/2024

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**EDGE OF PAVEMENT
DETAIL**



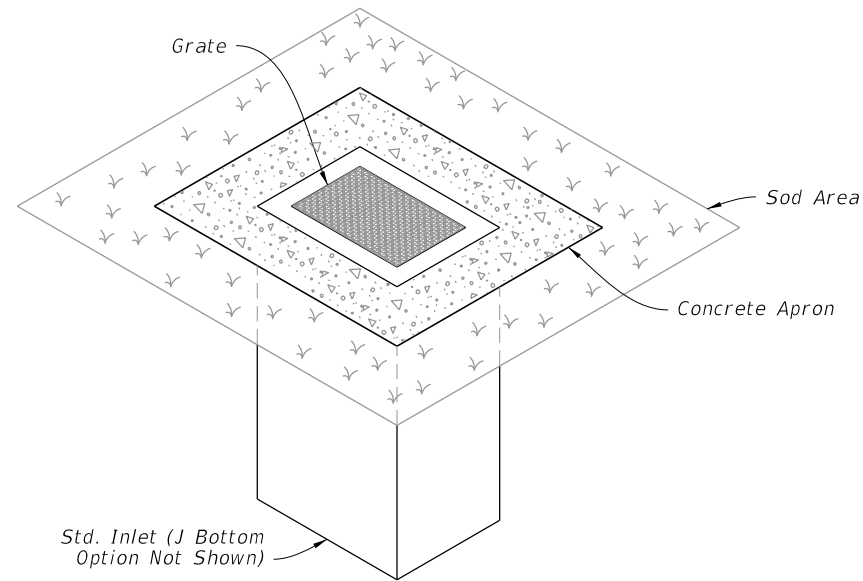
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DATE	DESCRIPTION		DRAWN BY:	COUNTY	FDEP AGREEMENT #	
01/10/24	ADDENDUM 1		R.A.	PALM BEACH	LP50102	TYPICAL SECTION OPTION A

GENERAL NOTES:

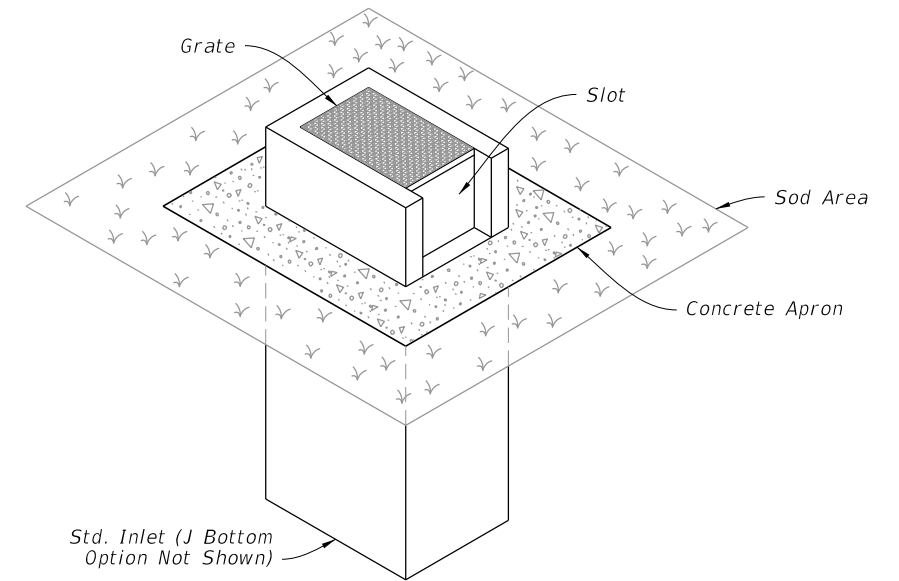
1. Work this Index with Index 425-001 and Index 425-010.
2. Chamfer all exposed edges and corners $\frac{3}{4}$ " chamfer or tooled to $\frac{1}{4}$ " radius.
3. All reinforcing is Grade 60 bars with 2" minimum cover unless otherwise noted. Cut or bend bars for $1\frac{1}{2}$ " clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.
4. Use Concrete Apron on inlets without slots and inlets with non-traversable slots only when called for in the Plans.
5. Quantities are for informational and estimating purposes only.



=====**DITCH BOTTOM INLET TYPE C**=====

TRAVERSABLE

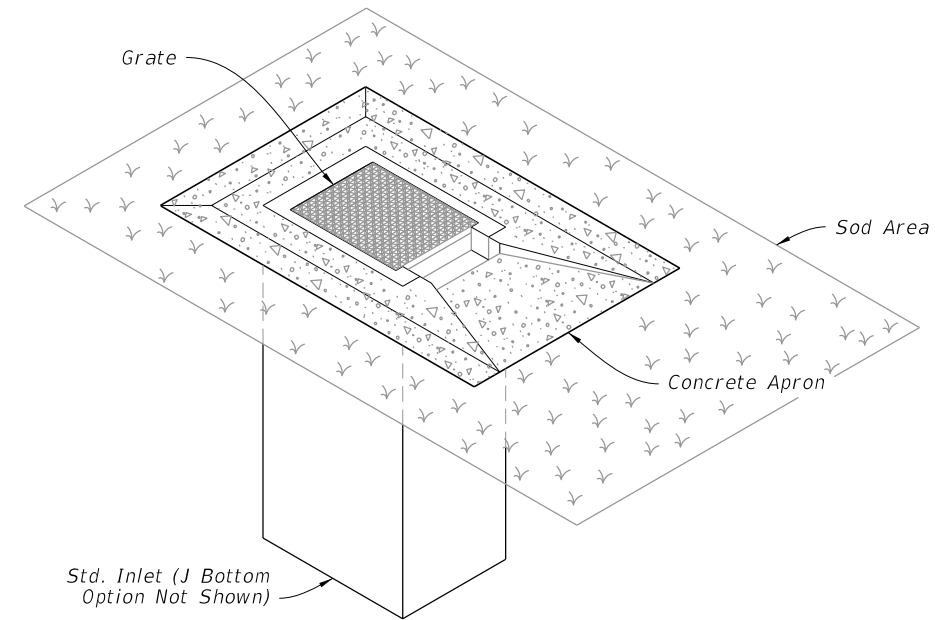
(Without Slot - Type D, E, and H Similar, Pipe Connection Not Shown)



=====**DITCH BOTTOM INLET TYPE C**=====

NON-TRAVERSABLE

(Slot > 7" Shown - Type D, E, and H Similar, Pipe Connection Not Shown)



=====**DITCH BOTTOM INLET TYPE C**=====

TRAVERSABLE

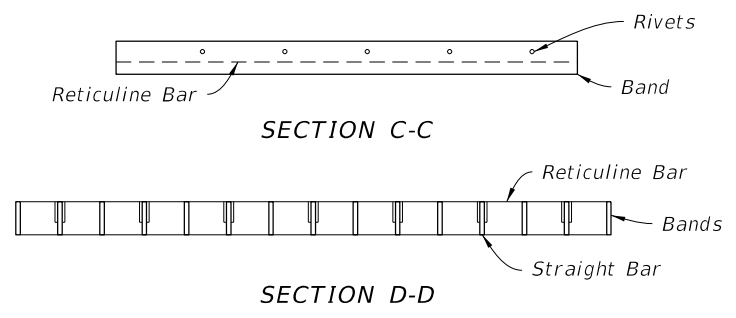
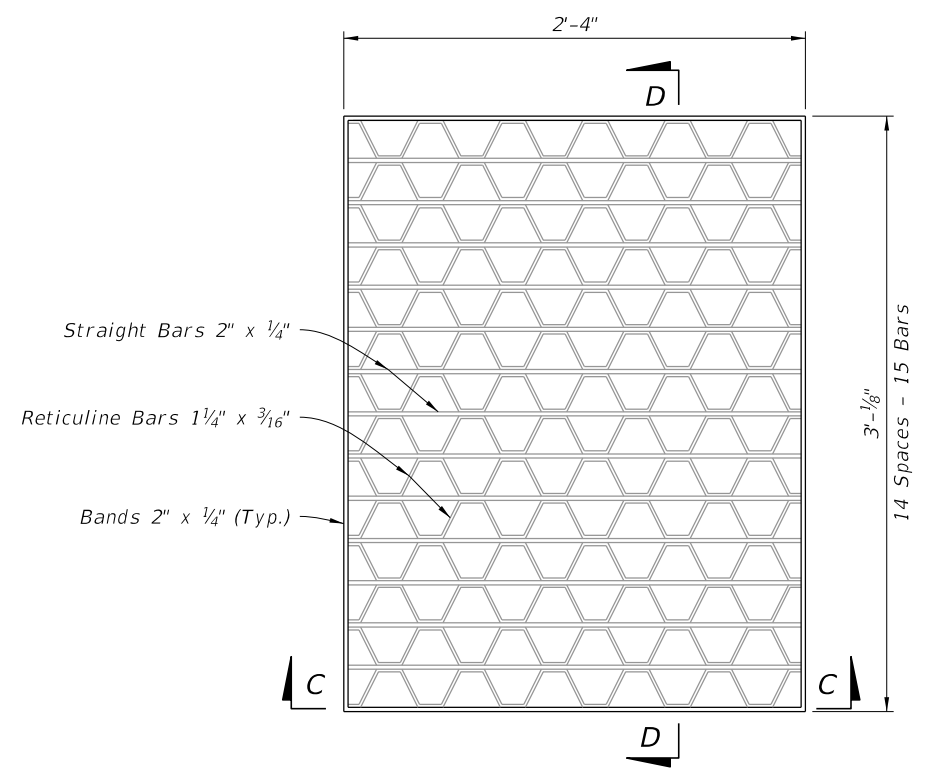
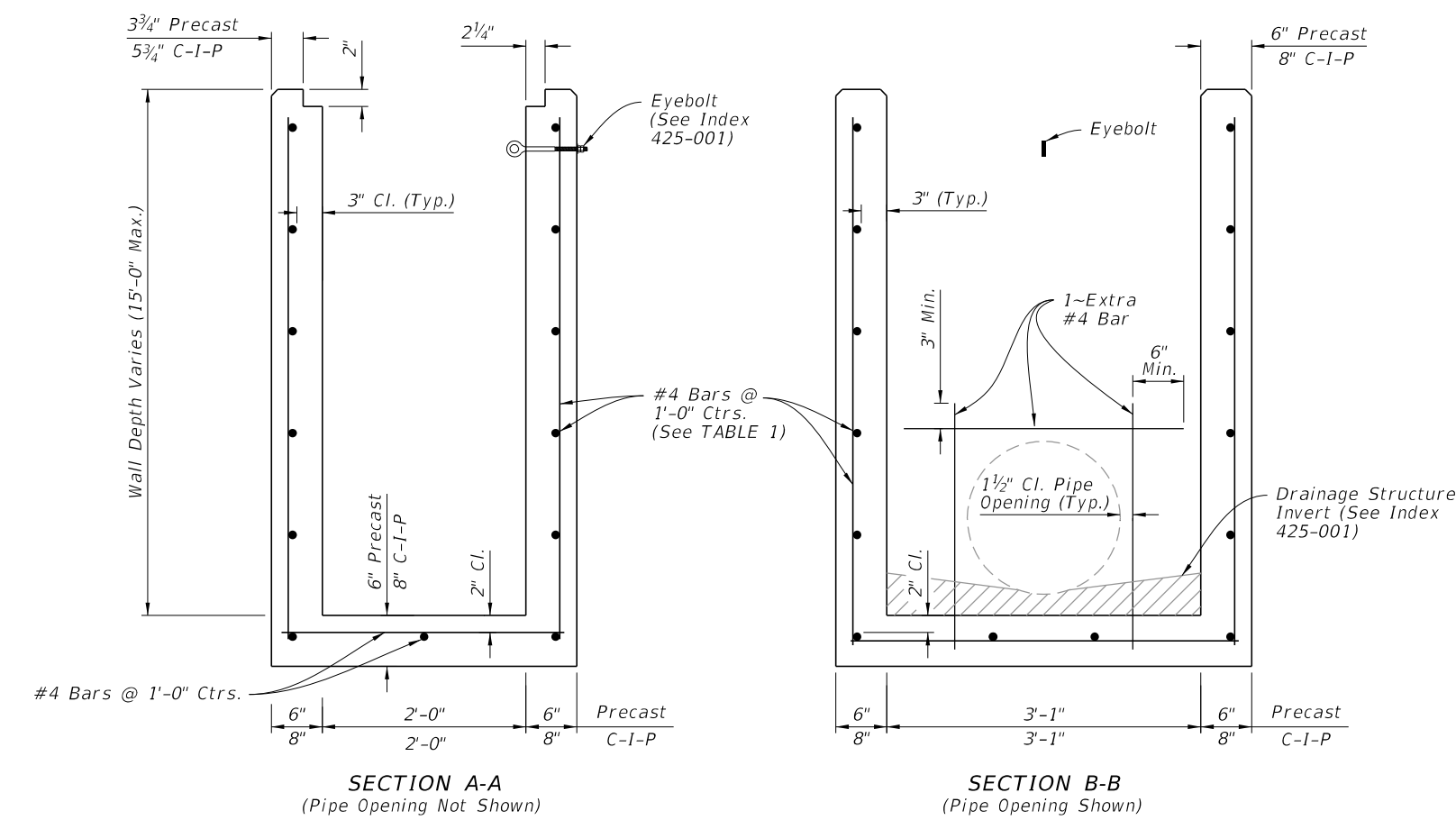
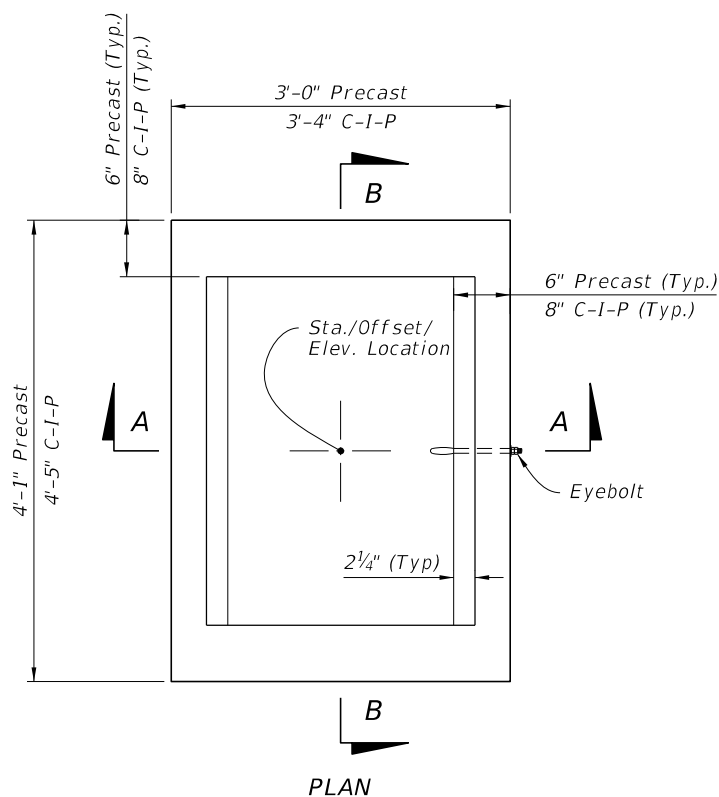
(Single Slot < 7" Shown, Double Slot, Type D, and E Similar, Pipe Connection Not Shown)

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1	General Notes and Contents
2	Type C - Dimensional, Reinforcing, and Grate Details
3	Type D - Dimensional, Reinforcing, and Grate Details
4	Type E - Dimensional, Reinforcing, and Grate Details
5	Type H (2 & 3 Grate) - Dimensional, Reinforcing, and Steel Grate Details
6	Type H (4 Grate) - Dimensional, Reinforcing, and Steel Grate Details
7	Cast Iron Grate Details
8	Non-Traversable Inlet Details
9	Traversable Inlet Without Slot Details
10	Traversable Inlet With Slot Details
11	Case 1 - Add Traversable Slots to Existing Inlets
12	Case 2 - Add Traversable Slots (Partial) to Existing Inlets
13	Case 3 - Add Traversable Slots (Partial) to Existing Inlets and Ditch Block
14	Alternate A Structure Bottom - Top Slab Details

10/20/2022 8:14:23 AM

ADDENDUM 1 ITB 2023-03 DATED 01/10/2024



STEEL GRATE DETAIL
(Approx. 104 Lbs. - See Sheet 7 For Cast Iron Grates)

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWF
0' - 15'	A12	0.20	12"	8"

- NOTES:**
1. Grate, Concrete Apron, and Sod not shown on structure detail.
 2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.

DIMENSIONAL AND REINFORCING DETAILS

TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

10/20/2022 8:14:24 AM

LAST REVISION 10/01/20	DESCRIPTION:
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FY 2023-24
STANDARD PLANS

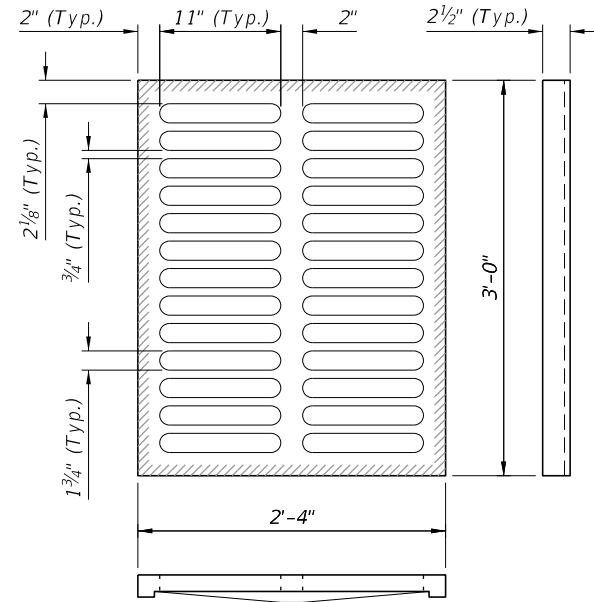
DITCH BOTTOM INLET TYPES C, D, E, AND H

INDEX 425-052	SHEET 2 of 14
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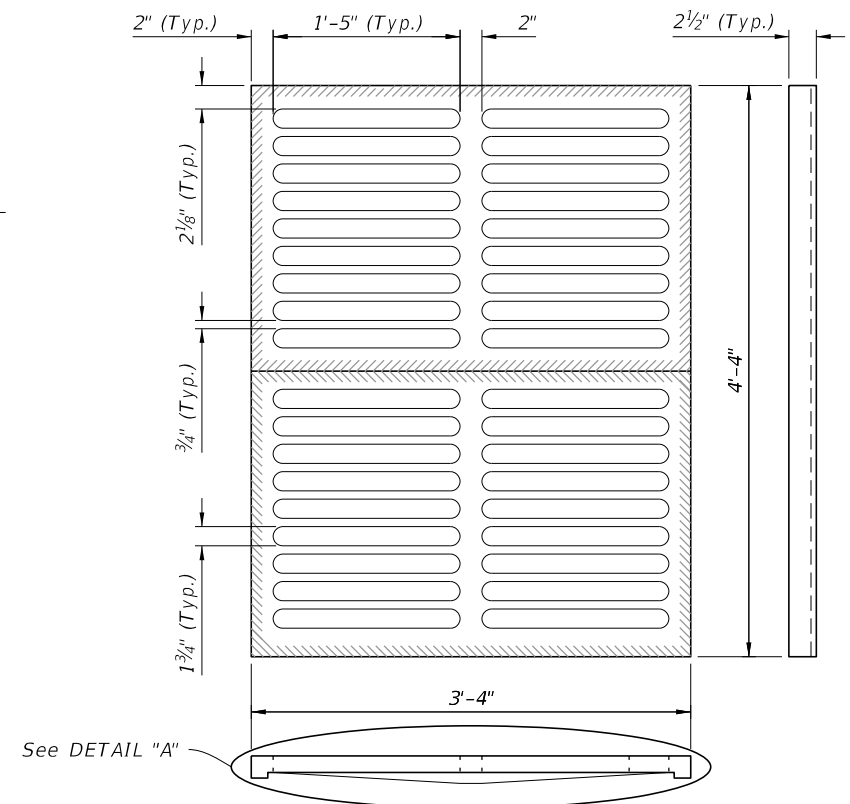
APPENDUM 1 ITB 2023-03 DATED 01/10/2024

NOTES:

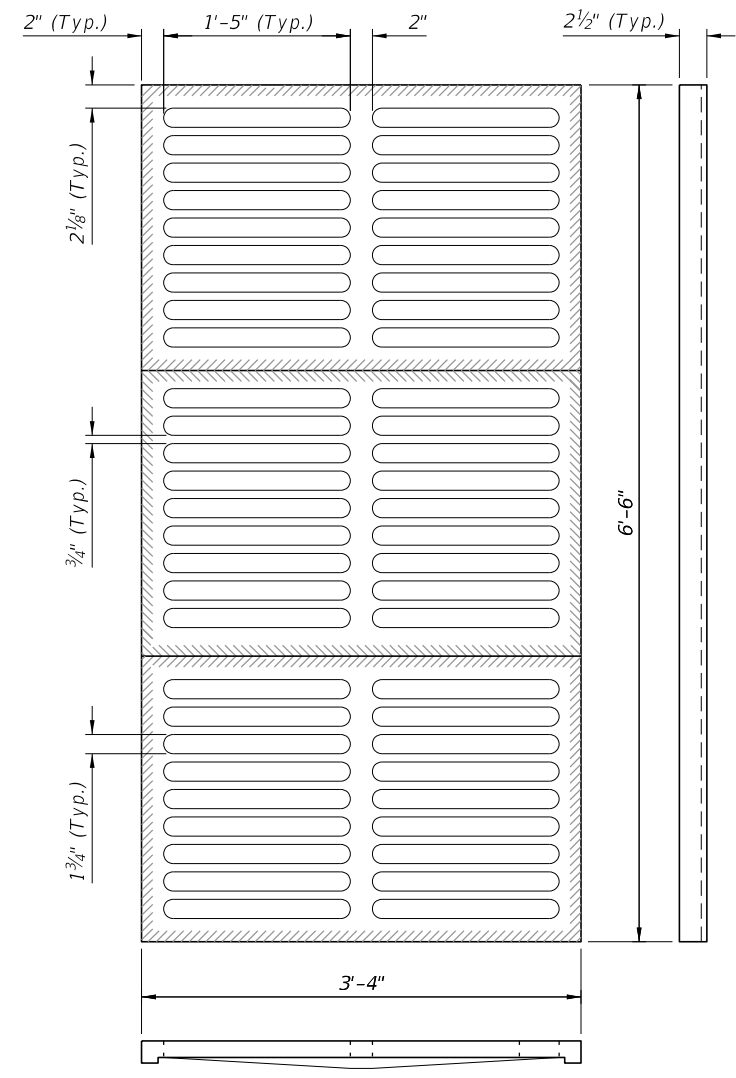
1. Steel Grates are required on inlets with traversable slots and on Inlets where bicycle traffic is anticipated.
2. Cast Iron Grates are not permitted on Inlet Type D.



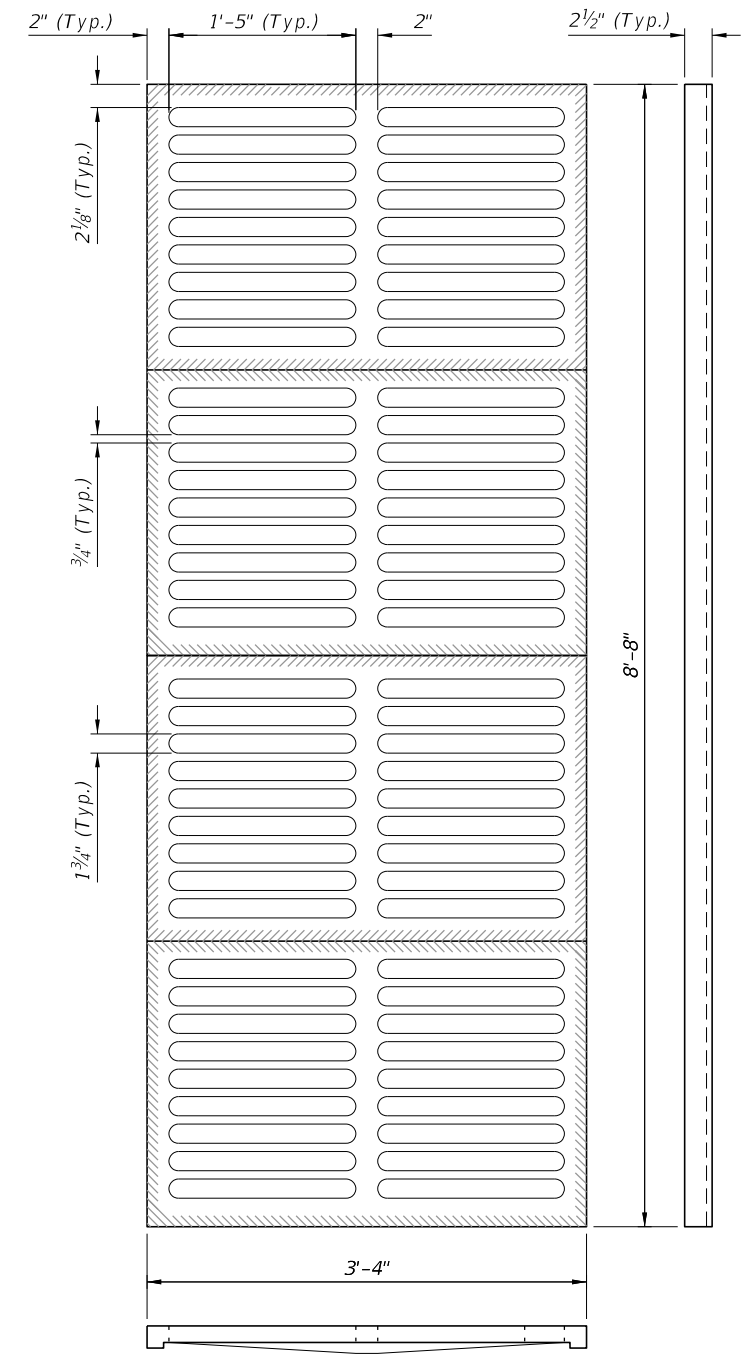
TYPE C
Approx. 235 lbs.



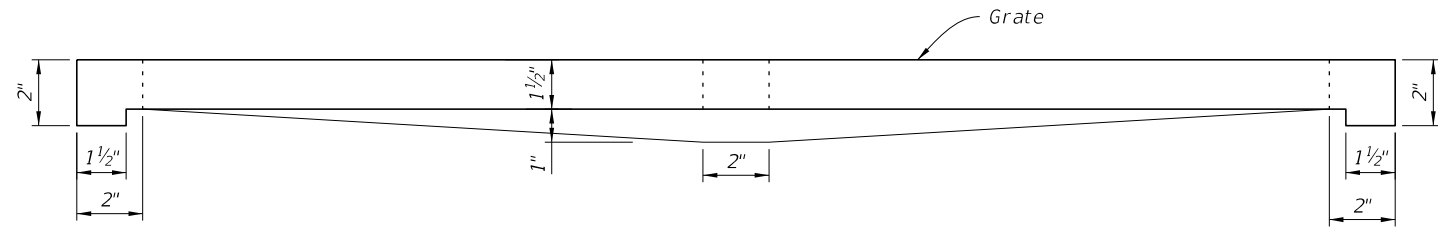
TYPE E
Approx. 465 lbs.



TYPE H
(3-Grate Inlet)
Approx. 725 lbs.



TYPE H
(4-Grate Inlet)
Approx. 967 lbs.



DETAIL "A"
(Typical Section)

CAST IRON GRATE DETAILS

10/20/2022 8:14:28 AM

LAST REVISION	10/01/20	DESCRIPTION:
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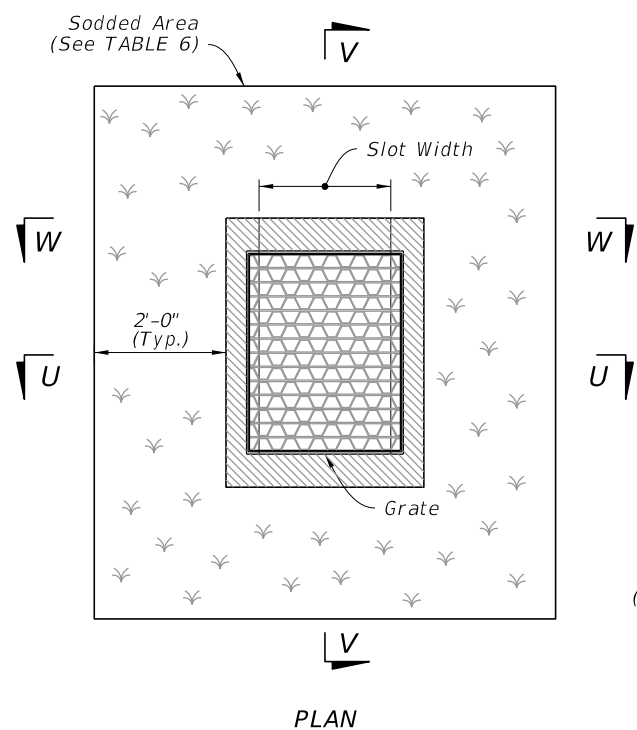


DITCH BOTTOM INLET TYPES C, D, E, AND H

INDEX	SHEET
425-052	7 of 14

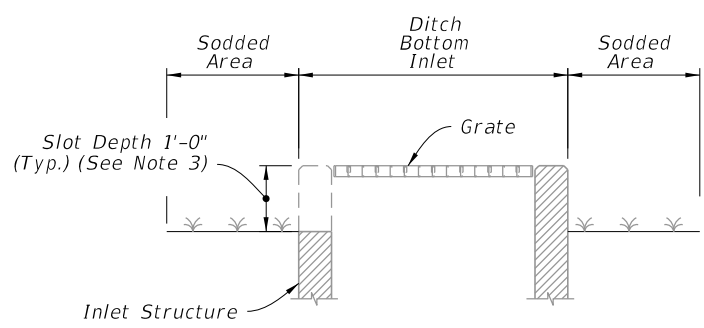
ADDENDUM 1 ITB 2023-03 DATED 01/10/2024

10/20/2022 8:14:28 AM

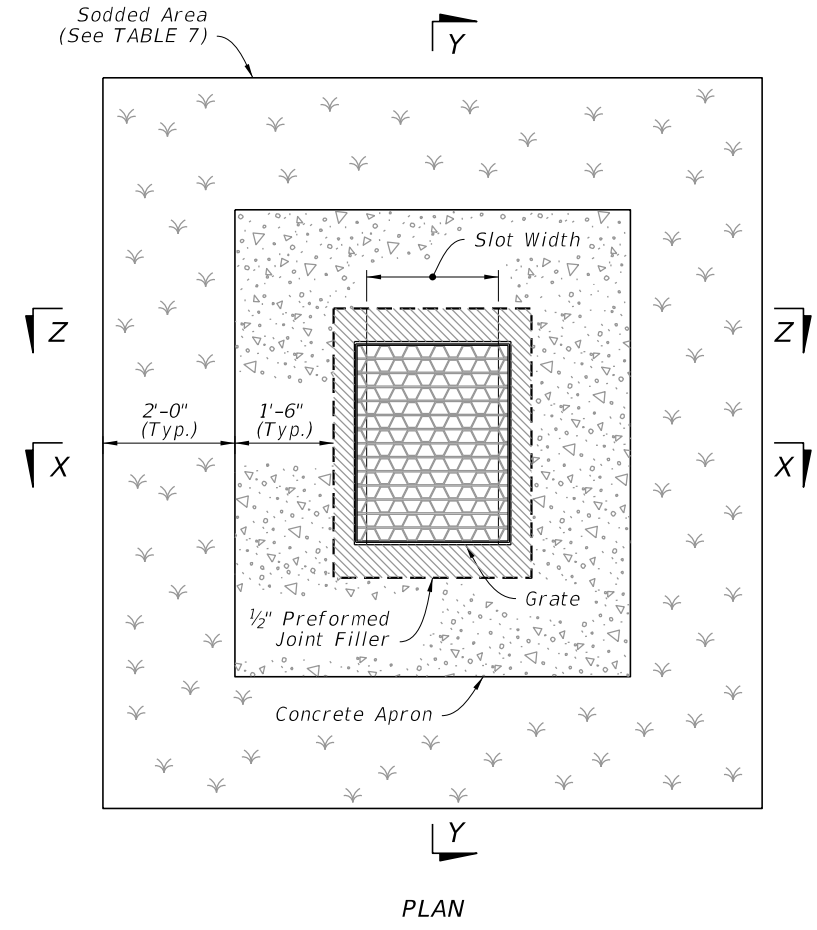


**TABLE 6
SOD ONLY
QUANTITIES**

Inlet Type	Sod SY
C	6
D	6
E	7
H	8

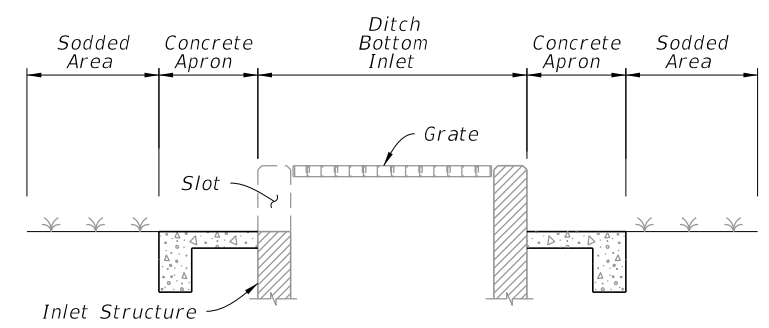


SECTION V-V

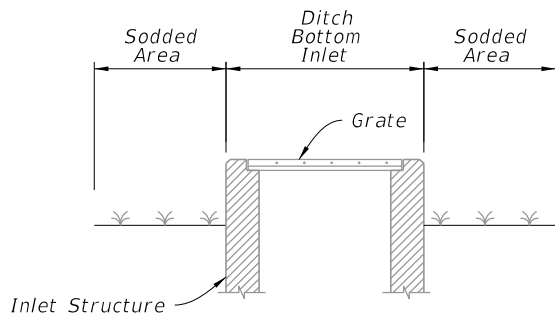


**TABLE 7
SOD AND CONCRETE
APRON QUANTITIES**

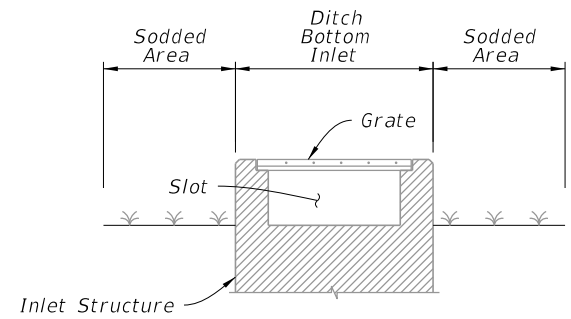
Inlet Type	Sod SY	Conc. CY
C	8	0.30
D	9	0.36
E	9	0.37
H	11	0.45



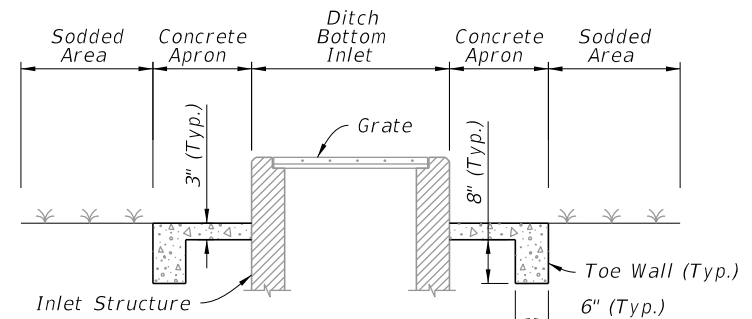
SECTION Y-Y



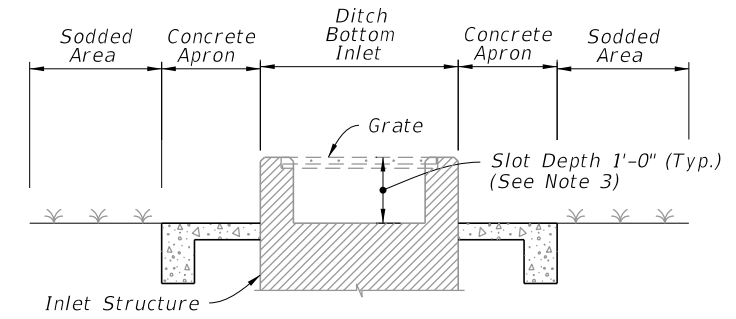
SECTION U-U



SECTION W-W



SECTION X-X



SECTION Z-Z

SODDING ONLY
(Slot Shown, Non-Slot Similar)

SODDING AND PAVEMENT
(Slot Shown, Non-Slot Similar)

NOTES:

1. Concrete Apron installed only where called for in the Plans.
2. Sod always required.
3. Slots are not permitted on sides with grate seats.

NON-TRAVERSABLE INLET DETAILS

LAST REVISION 10/01/20	DESCRIPTION:		FY 2023-24 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX	SHEET
					425-052	8 of 14

APPENDUM 1 ITB 2023-03 DATED 01/10/2024