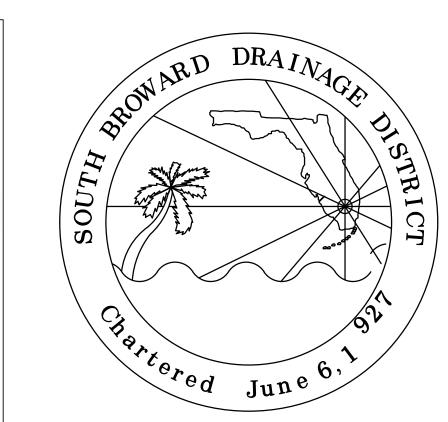
TOWN OF SOUTHWEST RANCHES & SOUTH BROWARD DRAINAGE DISTRICT S.W. 50th STREET/S.W. 182nd TERRACE DRAINAGE IMPROVEMENTS

TOWN OF SOUTHWEST RANCHES
13400 GRIFFIN ROAD
SOUTHWEST RANCHES, FLORIDA 33330





SOUTH BROWARD DRAINAGE DISTRICT 6591 SW 160th AVE.
SOUTHWEST RANCHES, FLORIDA 33331



TOWN OF SOUTHWEST RANCHES COUNCIL:

Doug McKay (Mayor)
Gary Jablonski (Vice Mayor)
Denise Schroeder (Council Member)
Freddy Fisikelli (Council Member)
Robert Hartman (Council Member)

DRAWING INDEX:

COVER SHEET

50th STREET PAVING & DRAINAGE PLAN - 1

50th STREET PAVING & DRAINAGE PLAN - 2

DETAILS - 3

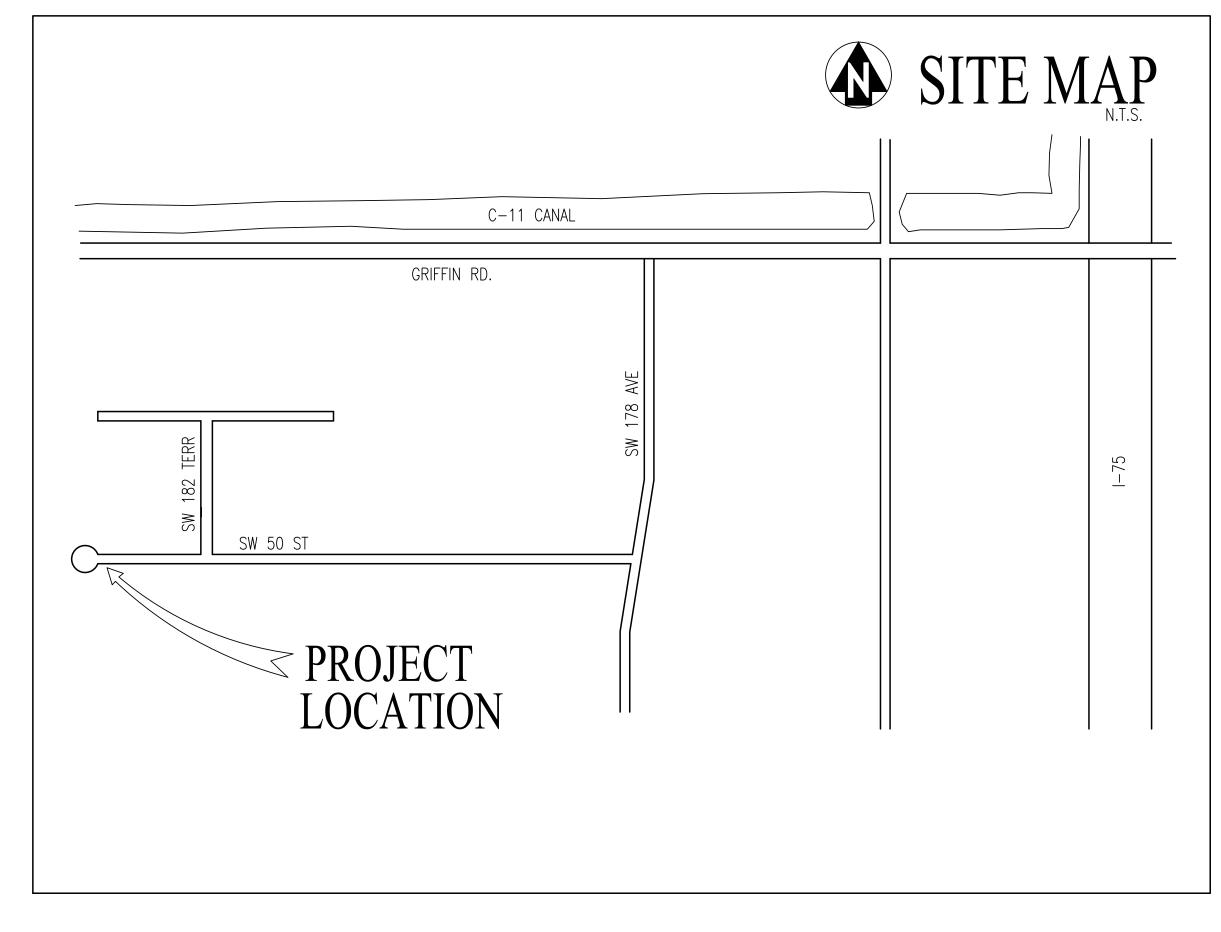
50th STREET EROSION CONTROL PLAN - 4

50th STREET EROSION CONTROL PLAN - 5

EROSION CONTROL DETAILS - 6

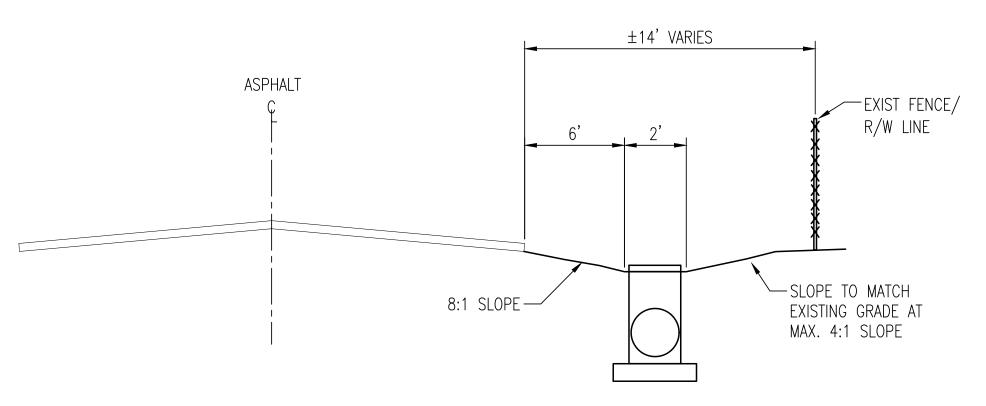
SURVEY (SHEET 1 OF 2) - 7

SURVEY (SHEET 2 OF 2) - 8



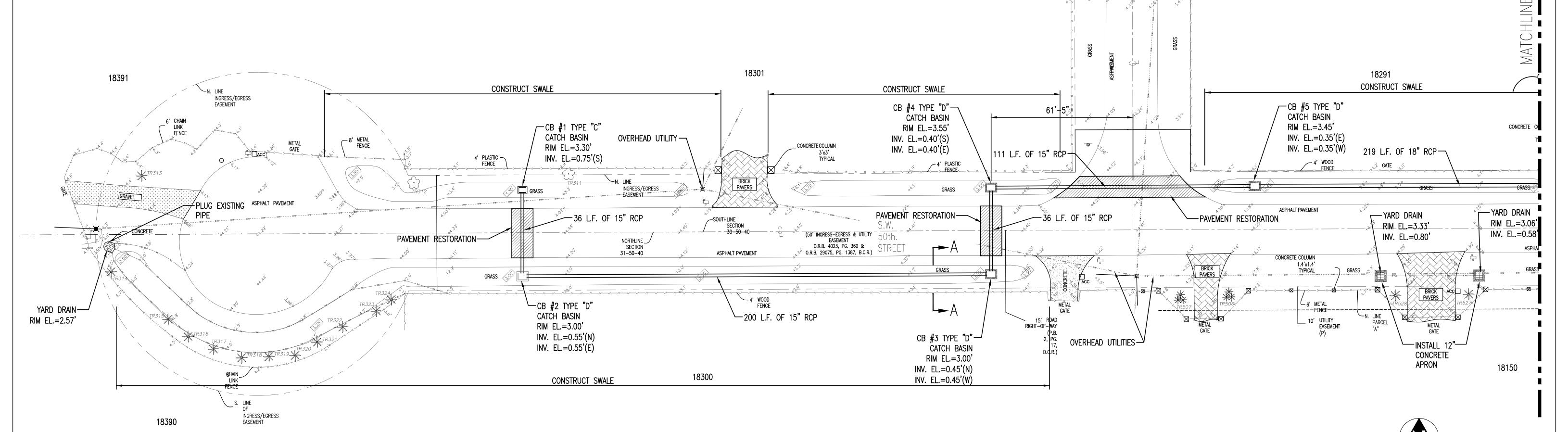
<u>Notes</u>

- 1. All elevations shown on this plan are based on the North American Vertical Datum of 1988 (NAVD 88) is: NAVD 88 = NGVD 29 1.51'
- 2. Contractor shall verify the location, size, material, and depth of all existing underground utility lines prior to beginning the work.
- 3. Contractor shall exercise extreme caution when working under and around existing overhead or underground electric lines. Contractor shall notify and coordinate with FPL on any safety or other issues regarding overhead or underground power lines.
- 4. Contractor shall submit a Maintenance of Traffic (MOT) Plan to the Town of SW Ranches for approval for any impacts to the flow of traffic on local Town roads.
- 5. Any required density tests or materials testing shall be paid for by the contractor.
- 6. The limits of the Project areas shall be restored in a manner that meets or exceeds the conditions of the Project areas prior to the start of construction. Sod shall match the type of sod of the surrounding areas unless Bahia is requested by the Town. Contractor shall be responsible for watering of the sod until final acceptance of the work.
- 7. Contractor shall be responsible to completely restore the limits of construction including, but not limited to, sod, pavement, driveways, catch basin aprons, fencing, landscaping and irrigation.
- 8. Contractor shall be responsible to obtain a dewatering permit for the any dewatering activities (at the sole cost to the Contractor).
- 9. Contractor shall comply with all requirements of Section 403.0885, Florida Statutes for NPDES, including, but not limited to, filing a Notice of Intent as applicable.
- 10. Contractor shall install Mirafi filter fabric under inlet grates to protect against sedimentation.
- 11. Contractor shall notify and coordinate with the Town of SW Ranches for all work within the Town limits.



SECTION A-A (TYPICAL SWALE SECTION)

NO SCALE



PAVING AND DRAINAGE PLAN

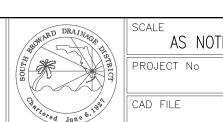
NOTE:
PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL
LOCATE AND UNCOVER EXISTING UNDERGROUND CABLE
AND POWER LINES TO VERIFY LOCATIONS
AND COORDINATE ANY CONFLICTS WITH THE SBDD.

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1									

SOUTH BROWARD DRAINAGE DISTRICT SW 50TH STREET SOUTHWEST RANCHES, FL. 33331 PAVING AND DRAINAGE PLAN S.W. 50th STREET/S.W.182nd TERRACE IMPROVEMENT PROJECT SOUTHWEST RANCHES, FLORIDA DRAWN BY:
J.K.S.

APPROVED BY:
K.M.H.

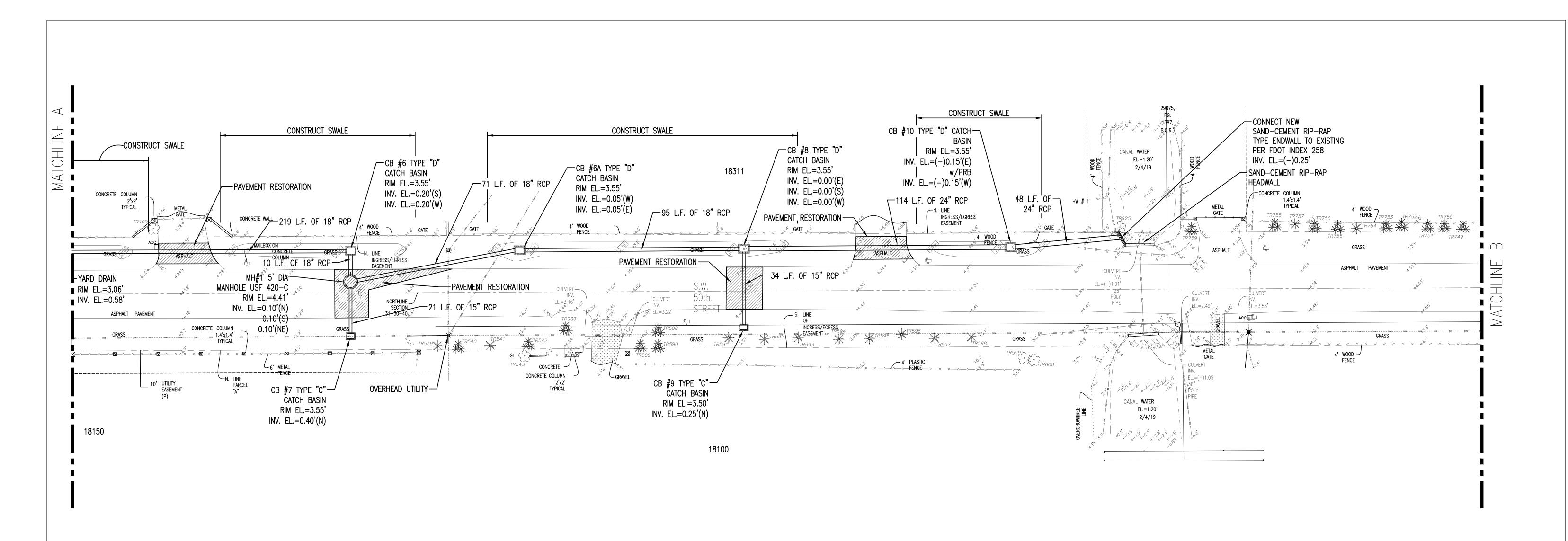
DATE 5-24-19

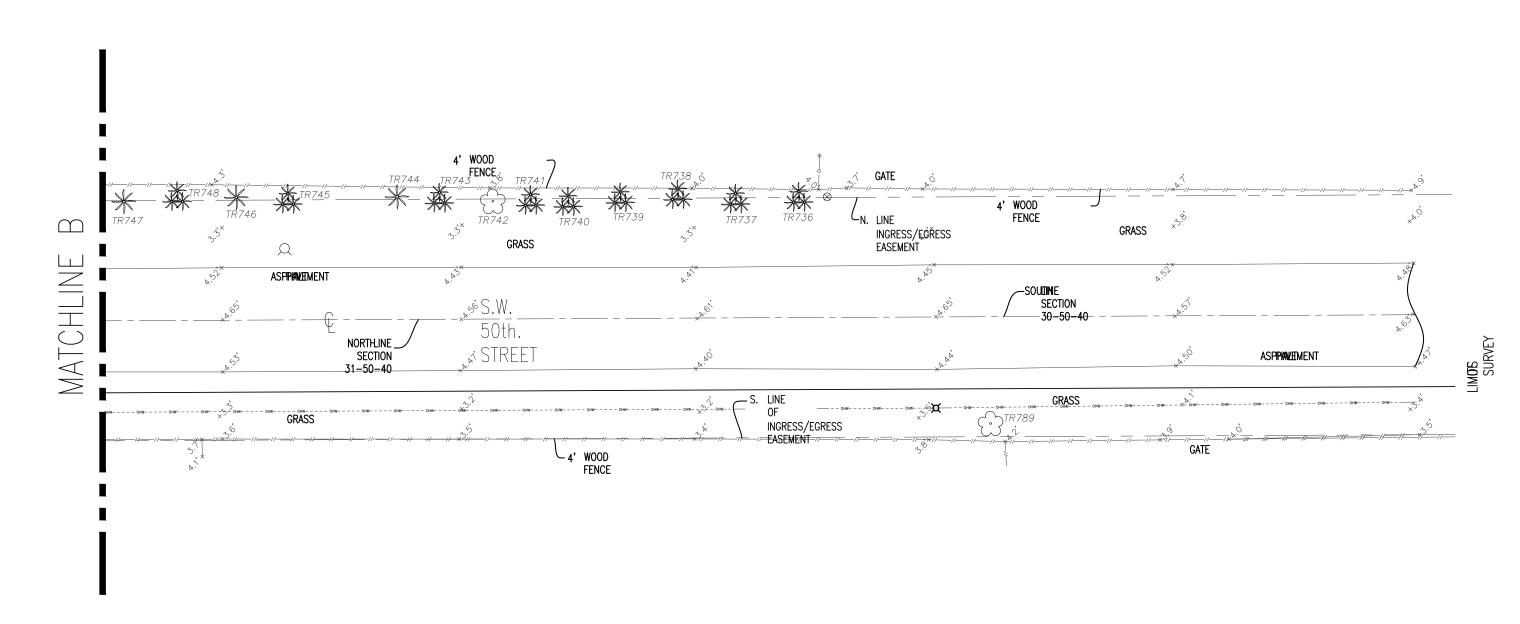


SCALE: 1"=20'-0"

TED SHEET

1 OF 8

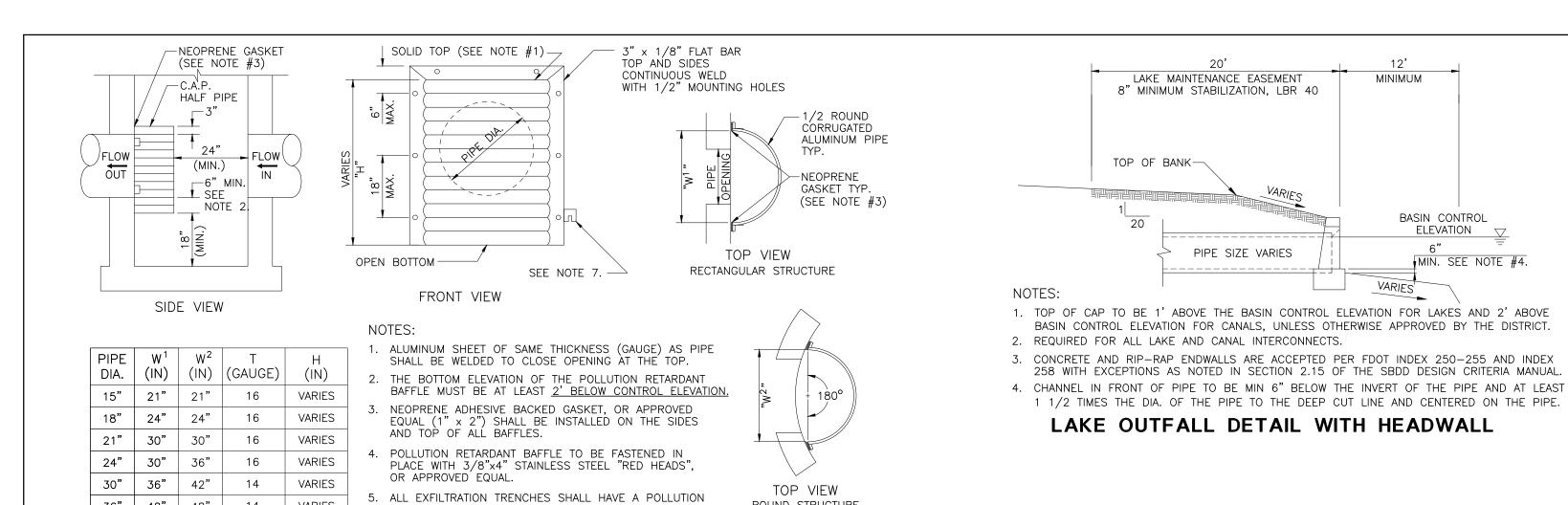




PAVING AND DRAINAGE PLAN

NOTE:
PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL LOCATE AND UNCOVER EXISTING UNDERGROUND CABLE AND POWER LINES TO VERIFY LOCATIONS AND COORDINATE ANY CONFLICTS WITH THE SBDD.

	SOUTH BROWARD DRAINAGE DISTRICT	PAVING AND DRAINAGE PLAN	DRAWN BY:	SCALE AS NOTED	SHEET
	SW 50TH STREET	S.W. 50th STREET/S.W. 182nd TERRACE IMPROVEMENT PROJECT	APPROVED BY:	PROJECT No	0
1 NO DATE REVISION BY NO DATE REVISION	BY NO DATE REVISION BY	SOUTHWEST RANCHES, FLORIDA	DATE 5-24-19	CAD FILE 2	OF 8



ROUND STRUCTURE

POLLUTION RETARDANT BAFFLE DETAIL

MATCH HOLES IN FLAT BARS.

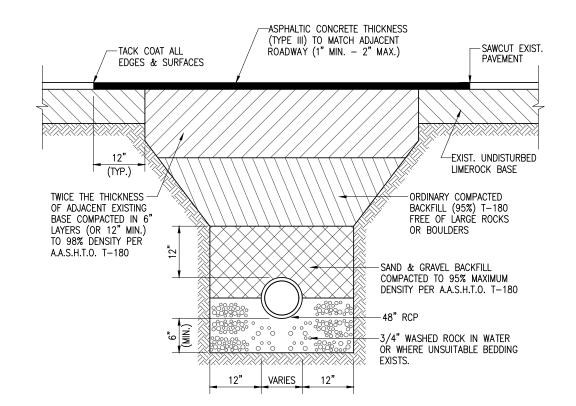
RETARDANT BAFFLE AT EACH CONNECTION POINT TO A

MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO

EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO

STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).

FIBERGLASS BAFFLES ARE NOT PERMITTED.



VARIES

VARIES

VARIES

VARIES

14

14

36" | 42" | 48"

54" | 60" | 66"

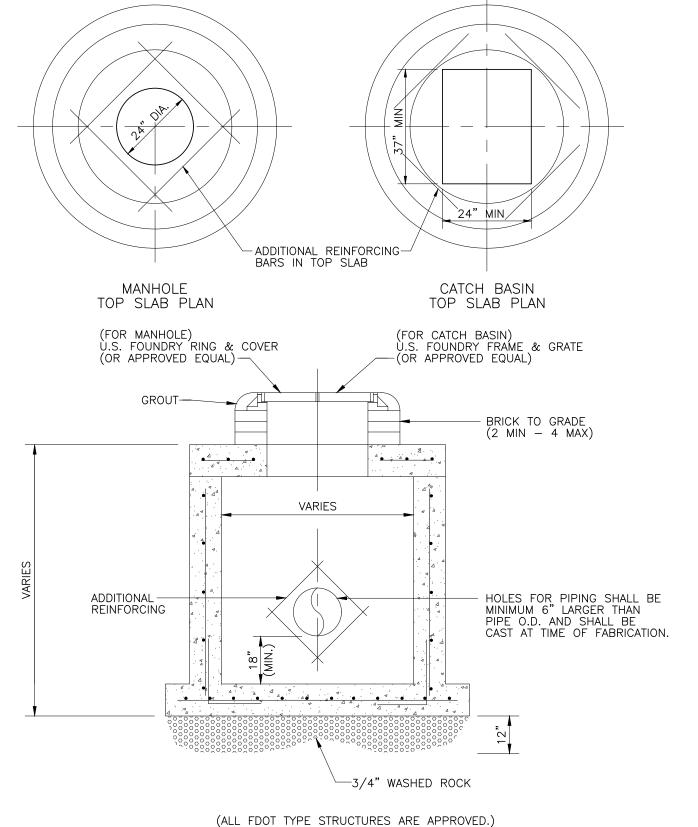
1. RECTANGULAR STRUCTURE

2. ROUND STRUCTURE

42" | 48" | 54" | 14

48" | **54"** | **60"** | **14** |

PAVEMENT RESTORATION DETAIL



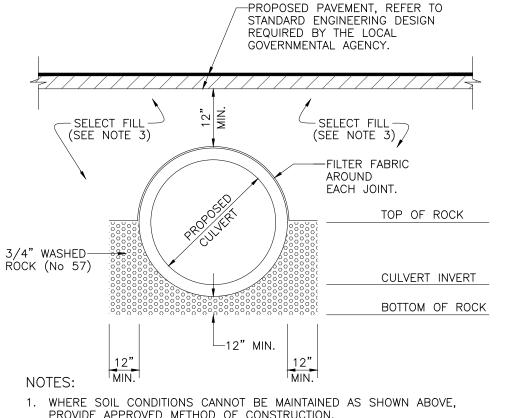
PRECAST CATCH BASIN AND MANHOLE DETAIL

BY NO DATE

REVISION

REVISION

DATE



- PROVIDE APPROVED METHOD OF CONSTRUCTION.
- 2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD. 3. BACKFILL IN 6"-12" LAYERS, TO 98% COMPACTION, WITH MATERIALS NOT LARGER THAN 3 1/2".
- 4. IF A CULVERT IS CORRUGATED ALUMINUM STRUCTURAL PLATE, FILTER FABRIC SHALL BE PLACED THE ENTIRE LENGTH OF THE PIPE.
- 5. FILTER FABRIC SHALL BE PLACED THE FULL LENGTH OF ANY SECTION OF CULVERT UNDER ASPHALT. LAKE/CANAL INTERCONNECT BEDDING DETAIL

BY NO DATE

BACKFILL PLACED AND COMPACTED; FOR COMPACTION IN TRAFFIC AREA, SEE ROADWAY SPECIFICATIONS, AND 90% MAX. DENSITY IN NON TRAFFIC AREA 6" MAXIMUM SIZE, IN 12" LIFTS. BACKFILL PLACED AND COMPACTED TO 90% MAX. DENSITY. BEDDING MATERIAL MAX. WATER LEVEL-- UNDISTURBED STABLE PERMITTED DURING ROCK OR MATERIAL CONSTRUCTION

- FINISHED GRADE

REVISION

- 1. WHERE SOIL CONDITION CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.
- 2. WHERE REQUIRED SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH THE LOCAL GOVERNMENTAL AGENCY.
- 3. MUCK OR OTHER UNSUITABLE MATERIAL SHALL BE COMPLETELY REMOVED.
- 4. WHEN THE PIPE IS LAID IN THE PREPARED TRENCH, TRUE TO LINE AND GRADE, THE PIPE BARREL SHALL RECEIVE CONTINUOUS UNIFORM SUPPORT. WHERE NECESSARY. COURSE SAND, PEA ROCK OR 3/4" LIMESTONE GRAVÉL SHALL BE USED TO PROVIDE UNIFORM BEDDING.
- 5. JOINTS MAY BE REQUIRED TO BE WRAPPED AT THE DISCRETION OF THE DISTRICT AND THE SITE CONDITIONS.
- BACKFILL MATERIAL SHALL BE NON-COHESIVE AND NON-PLASTIC SOIL THAT IS FREE OF ALL DEBRIS, LUMPS, WOOD BROKEN PAVING OR ANY ORGANIC OR UNSUITABLE MATERIAL BACKFILL MATERIAL PLACED WITHIN 12" OF THE PIPE SHALL CONTAIN NO ROCKS OR STONES LARGER THAN 3-1/2" INCHES IN DIAMETER. NO ROCKS OR STONES LARGER THAN 6" IN DIAMETER WILL BE PERMITTED IN THE REMAINING BACKFILL UNLESS OTHERWISE SPECIFIED.
- TRENCH BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY AASHTO T-180. BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE TO THE STANDARD ENGINEERING DESIGN REQUIRED BY THE LOCAL GOVERNMENTAL AGENCY.

TRENCH ECAVATION DETAIL

S.W. 50th STREET/S.W. 182nd TERRACE IMPROVEMENT PROJECT SOUTHWEST RANCHES, FL.

DRAWN BY: J.K.S. APPROVED BY: K.M.H. DATE 5-24-19

GENERAL NOTES

CHARGES BY SBDD.

CORRECTION/REMEDY.

PROVIDED ON AN AUTOCAD DISC.

1 THE FOLLOWING GENERAL NOTES ARE REQUIRED BY THE SOUTH BROWARD DRAINAGE

RESPONSIBILITY TO ADD ANY NOTES WHICH WILL INFORM THE OWNER AND THE

2 THE CONTRACTOR SHALL CONTACT SBDD 48 HOURS OR TWO (2) WORKING DAYS

AT (954)680-3337. SBDD'S WORKING HOURS ARE FROM 8:00 AM TO 4:30 PM.

3 ANY REVISIONS TO PLANS PERMITTED BY SBDD MUST BE APPROVED BY SBDD PRIOR TO

4 A PRECONSTRUCTION MEETING SHALL BE SCHEDULED AND HELD AT LEAST FIVE (5) DAYS

INSTALLATION OF ALL UNDERGROUND DRAINAGE FACILITIES BEFORE BACKFILLING,

RE-INSPECTIONS OR EXTRAORDINARY INSPECTIONS WILL BE SUBJECT TO ADDITIONAL FEE

SHAPING OF CANAL AND LAKE BANKS FROM THE DEEP CUT TO THE UPLAND

7 THE CONTRACTOR CONSTRUCTING OR EXCAVATING LAKES OR OTHER WATER BODIES

SHALL EXCERCISE EXTREME CAUTION TO ENSURE THAT THE SIDE SLOPES AND DEEP

CUT LINES ARE CONSTRUCTD IN ACCORDANCE WITH THE APPROVED PLANS FOR THE

PERFORMED PRIOR TO THE OWNER/CONTRACTOR BEGINNING CONSTRUCTION OF ANY

MUST BE APPROVED BY SBDD BEFORE THE CONTRACTOR BEGINS THE PROPOSED

8 PAVING AND DRAINAGE "AS-BUILT" PLANS CERTIFIED BY THE ENGINEER OF RECORD AND

OVERLAY OF THE APPROVED CONSTRUCTION DRAWINGS AND AT THE SAME SCALE AS

RELEASE OF THE BOND OR LETTER OF CREDIT. AS-BUILTS SHALL BE PROVIDED AS AN

ORIGINALLY SUBMITTED. AS-BUILT SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF SECTION SIX (6) OF SBDD'S CRITERIA MANUAL. AS-BUILTS MUST ALSO BE

APPROVED BY SBDD'S ENGINEER AND DIRECTOR WILL BE REQUIRED BEFORE THE

9 AS-BUILT DRAWINGS OF WATER BODIES SHALL INCLUDE THE DATA ADDRESSED IN THE "AS-BUILT LAKE SECTION" IN EXHIBIT 26 OF SBDD'S CRITERIA MANUAL. THE AS-BUILT CROSS SECTIONS SHALL BE PROVIDED AT NOT MORE THAN 100 FOOT INTERVALS AND

10 SBDD WILL NOT COMPLETE THE FINAL INSPECTION UNTIL THE AS-BUILT PACKAGE WHICH

MUST INCLUDE THE ENGINEER'S CERTIFICATION AND TEST RESULTS FOR STABILIZATION OF

AT ALL OUTFALL PIPES CONSTRUCTED WITHOUT HEADWALLS.

LAKE/CANAL MAINTENANCE EASEMENTS, ARE RECEIVED.

DEVELOPMENT. THE CONTRACTOR OR OWNER SHALL PERIODICALLY, OR AS REQUIRED BY

SBDD, OBTAIN A SURVEY, FROM A FLORIDA REGISTERED SURVEYOR OF THE LOCATION OF

THE DEEP CUT LINES PRIOR TO FORMING THE SIDE SLOPES. THIS SURVEY SHALL BE

BUILDING PADS ADJACENT TO THE WATER BODY. IN THE EVENT THAT THE CONTRACTOR

SOLUTION TO CORRECT THE OVER DIGGING. ANY SUGGESTED REMEDY OR CORRECTION

OVER DIGS THE WATER BODY, THE OWNER/CONTRACTOR SHALL SUBMIT TO SBDD ITS

5 A SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO SBDD AFTER APPROVAL BY THE

6 DURING CONSTRUCTION, SBDD PERSONNEL WILL INSPECT THE FOLLOWING:

CONTRACTOR OF ANY ADDITIONAL REQUIREMENTS OF SBDD.

MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS.

BACKFILLING OF DRAINAGE TRENCHES.

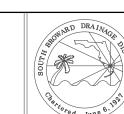
EASEMENT LINE OR AS REQUIRED BY SBDD.

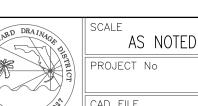
AND ANY OTHER DRAINAGE RELATED CONSTRUCTION WORK.

PRIOR TO BEGINNING CONSTRUCTION.

DISTRICT (SBDD). THEY ARE NOT MEANT TO BE ALL INCLUSIVE. IT IS THE ENGINEER'S

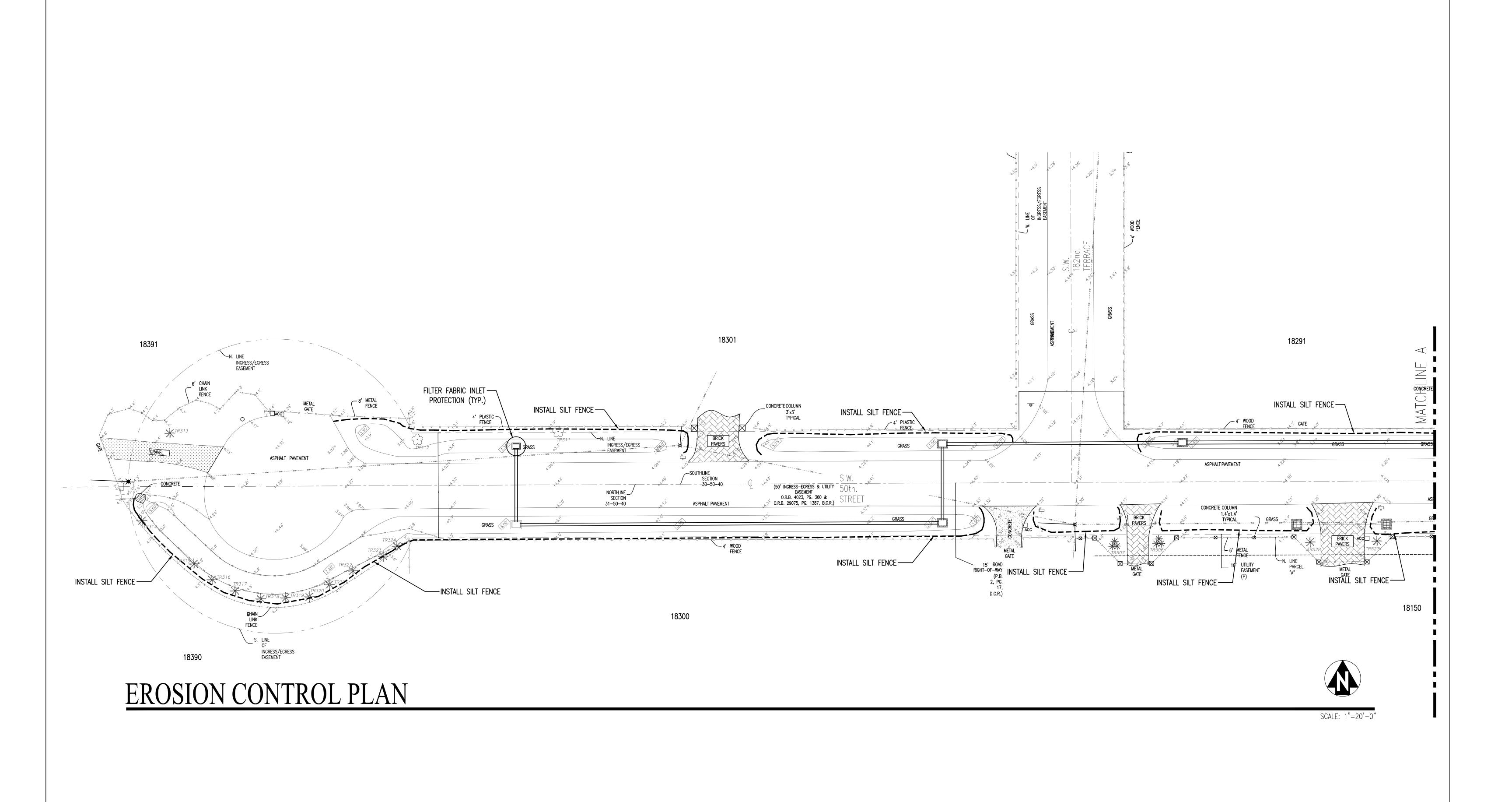
PRIOR TO ANY REQUIRED INSPECTION. TO SCHEDULE INSPECTIÓNS, PLEASE CALL SBDD





SHEET **3** of **8**

SOUTH BROWARD DRAINAGE DISTRICT PAVING & DRAINAGE DETAILS 6591 SW 160th AVE SOUTHWEST RANCHES, FL. 33331



SOUTH BROWARD DRAINAGE DISTRICT

SOUTHWEST RANCHES, FL. 33331

6591 SW 160th AVE

BY NO DATE

REVISION

BY NO DATE

EROSION CONTROL PLAN

S.W. 50th STREET/S.W. 182nd TERRACE IMPROVEMENT PROJECT SOUTHWEST RANCHES, FLORIDA

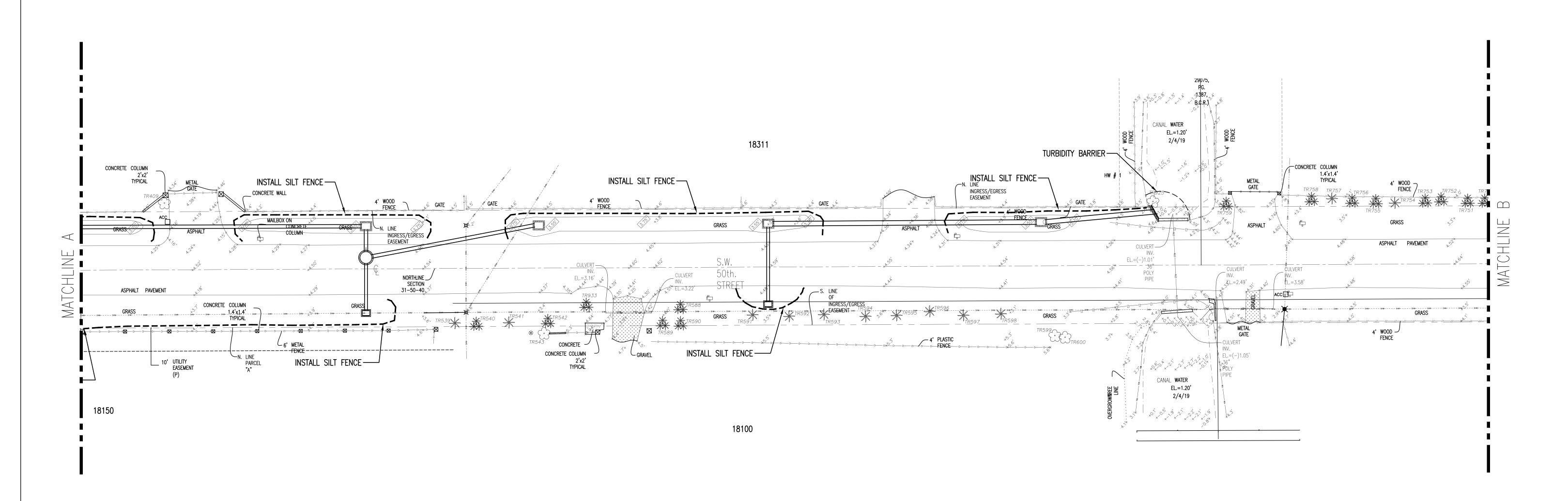
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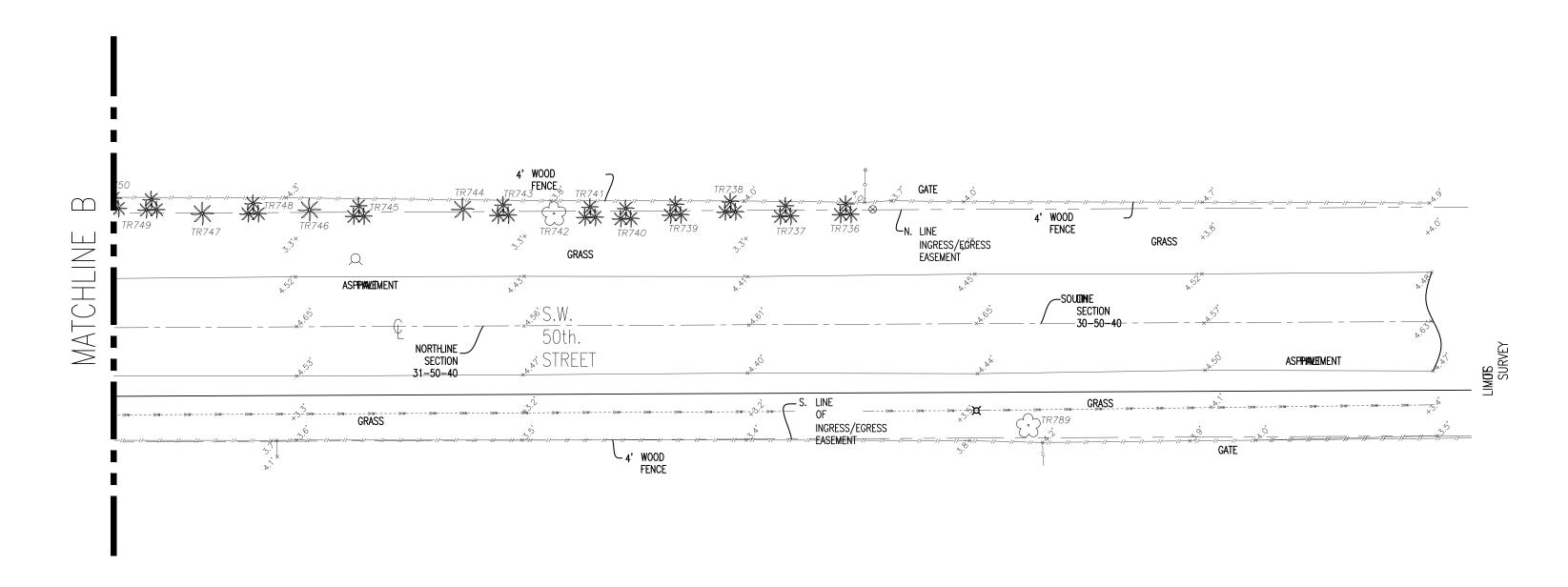
APPROVED BY: K.M.H.

DATE 5-24-19

SHEET

4 of 8





BY NO DATE

EROSION CONTROL PLAN

BY NO DATE



SCALF: 1"=20'-0"

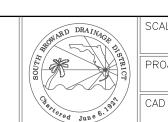
SOUTH BROWARD DRAINAGE DISTRICT
6591 SW 160th AVE
SOUTHWEST RANCHES, FL. 33331

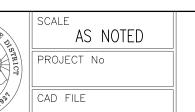
EROSION CONTROL PLAN S.W. 50th STREET/S.W. 182ns TERRACE IMPROVEMENT PROJECT SOUTHWEST RANCHES, FLORIDA

DRAWN BY:
J.K.S.

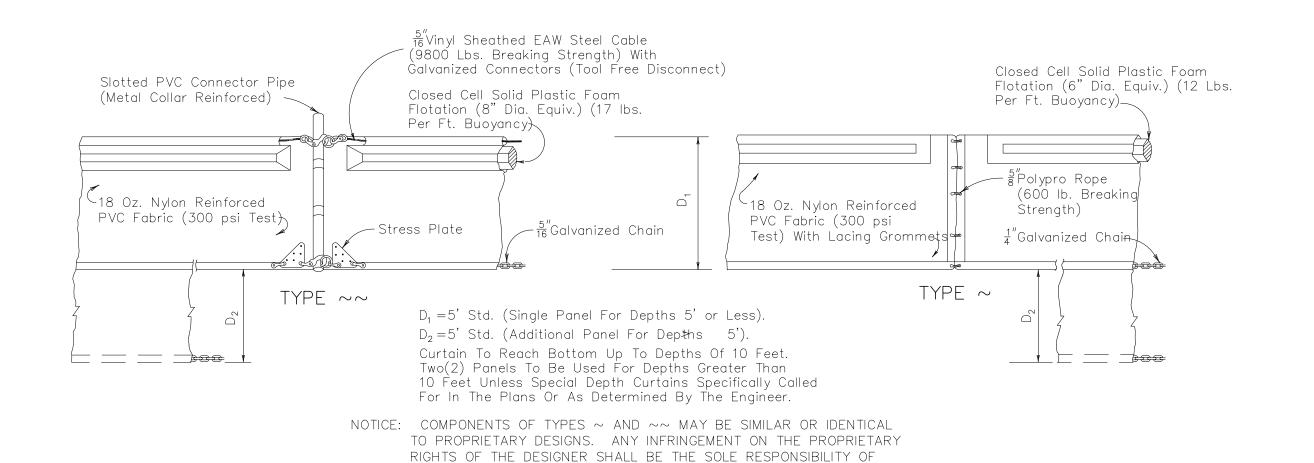
APPROVED BY:
K.M.H.

DATE 5-24-19





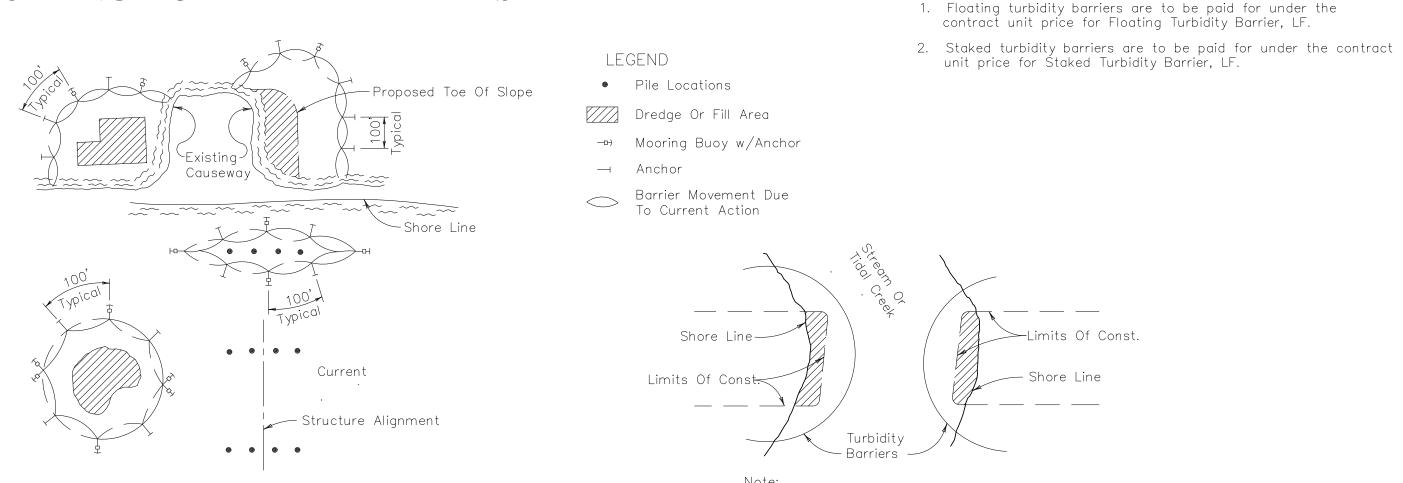
5 of 8



FLOATING TURBIDITY BARRIERS

APPROVED BY THE ENGINEER.

THE USER. SUBSTITUTIONS FOR TYPES ~ AND ~~ SHALL BE AS



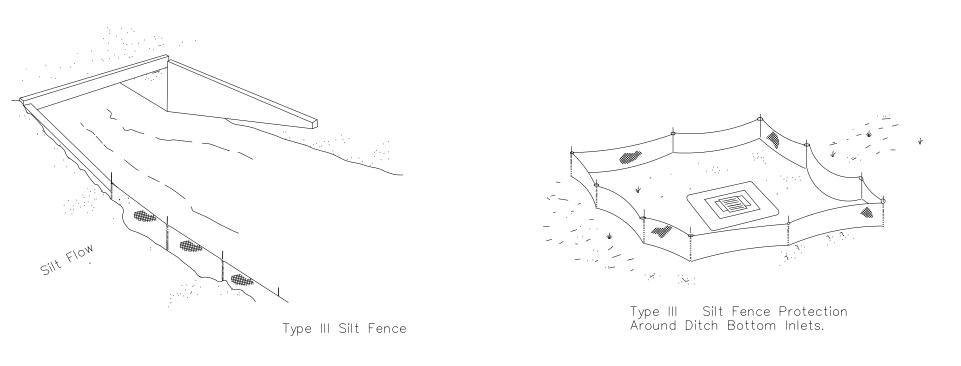
NOTES:

- 1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
- 2. Number and spacing of anchors dependent on current velocities.
- 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
- 4. Navigation may require segmenting barrier during construction operations.
- 5. For additional information see Section 104 of the Standard Specifications.

Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical

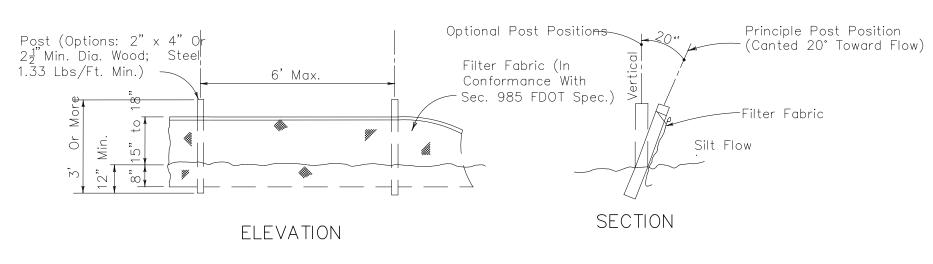
position unless otherwise directed by the

TURBIDITY BARRIER APPLICATIONS



Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

TYPE III SILT FENCE

											COLITIL DDOWADD DDAINAGE DICTDICT
											SOUTH BROWARD DRAINAGE DISTRICT
											6591 SW 160th AVE
											SOUTHWEST RANCHES, FL. 33331
DATE	REVISION	BY	NO	DATE	REVISION	BY	NO	DATE	REVISION	BY	,

EROSION CONTROL DETAILS	
S.W. 50th STREET/S.W. 182nd TERRACE IMPROVEMENT PROJECT	
SOUTHWEST RANCHES, FL.	

Post (Options: 2" x 4" Or _2½" Min. Dia. Wood; Steel

- 18 Oz. Nylon Reinforced

PVC Fabric (300 psi Test)

1.33 Lbs/Ft. Min.)

Silt Flow

6' Max.

STAKED TURBIDITY BARRIER

GENERAL NOTES



