### MISCELLANEOUS INDEX

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<td>AS SHOWN IN PREVIOUS PLATS</td>
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<td>RED 30'</td>
<td>DISTANCE FROM M/L TO P/L</td>
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<td>STK = HUB OR STAKE WITH NAIL DRIVEN TO DENOTE POINT</td>
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<td>MON. = CITY MONUMENT</td>
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<td>WIRE OR WOODEN FENCE</td>
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**LEGEND FOR DETAIL PLATS**

N.T.S. JAN 1954

DR: EO

DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA

MISC. 35-89-1  MISC-2
RELATIVE DATUM PLANES

B.M.  U.S.E.D.   "OCEAN"   ELEV.   6.273   M.L.W.
B.M.  U.S.E.D.   "BAY"    ELEV.   5.773   M.L.W.
B.M.  CITY OF MIAMI   ELEV.   5.263   M.L.W.
B.M.  U.S.C. & G.S.  ELEV.   5.000   M.S.L.
B.M.  U.S. GEOLOGICAL SURVEY  ELEV.   6.273   M.S.L.

THE ABOVE INDICATES THE COMPARATIVE ELEVATION OF A
BENCH MARK FOR THE FOUR PLANES.

DATUM PLANE RELATIONSHIPS

0.00 U.S.C.&G.S. AND GEOLOGICAL SURVEY
0.00 CITY OF MIAMI    0.263
0.00 U.S.E.D.   "BAY"    0.510
0.00 U.S.E.D.   "OCEAN"    0.500

N.T.S.
JAN 1954

DR: E0
CK:DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
MISC. 35-89-2
MISC-3
ALL DRAWINGS MUST BE TO SCALE

DETAIL DRAWINGS
SHOW MONUMENT OR RANDOM LINES IN BLUE
SHOW PROPERTY LINES & SUBDIVISION NAMES IN RED
SHOW SURVEY INFORMATION IN BLACK
SHOW ELEVATIONS IN RED
SEE STANDARD DETAIL FOR SIZES OF LETTERING & SYMBOLS

SIZE OF DRAWINGS

A. LARGE
40" X 30"
36" X 30" 1 1/2" MARGIN ON LEFT
36" X 22" 1/2" MARGIN ON OTHER 3 SIDES
28" X 18"

B. LEGAL AND LETTER SIZE
12" X 7" STREET WIDENING ROLLS—1/4" BORDER TITLE EACH END
8 1/2" X 14" LEGAL SIZE, 1 1/2" MARGIN ON TOP—1/4" ON OTHER 3 SIDES
8 1/2" X 11" CORRESPONDENCE, 1" MARGIN ON TOP OR LEFT SIDE — 1/4" ON OTHER 3 SIDES.
8" X 10 1/2" GOVT PERMITS, 1" MARGIN ON TOP — 1/4" ON OTHER 3 SIDES.

FILE NUMBER ON ALL DRAWINGS TO BE PLACED ON LOWER RIGHT — HAND CORNER
SIZE OF FILE BLOCK ON LARGE DRAWINGS 1” X 0.65”
SIZE OF FILE BLOCK ON SMALL DRAWINGS 0.75” X 0.5”
TITLE SHALL BE PLACED ON LOWER RIGHT — HAND CORNER
ON DRAWINGS THAT ARE TO BE ROLLED TITLE AND FILE NUMBER SHALL BE OUTSIDE OF BORDER

OFFICE STANDARDS
FOR
PREPARATION OF DRAWINGS

N.T.S.

JAN 1954

DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA

MISC. 35-89-3
MISC-4
HIGHEST "HURRICANE" TIDE = EL. 10.16' (SEPT. 15 & 16, 1945, FROM FLOOD MARKS.)

NOTE: U.S. ENGINEER DEPARTMENT REPORTS FOLLOWING
TYPICAL TIDE ELEVATIONS FOR SEPT. 15 & 16, 1945:
AT MIAMI BEACH = EL.3.5
AT MOUTH OF MIAMI RIVER = EL.6.7
AT POINT 5 MI. SOUTH OF MIAMI = EL.13.5

NEXT HIGHEST "HURRICANE" TIDE = EL.5.57' 5.5' (OCT. 18, 1950)
OTHER "HURRICANE" TIDE = EL.5.15' 3.1' (OCT. 5, 1948)
TIDE = EL.5.05' 3.4' (SEP. 21, 1948)
TIDE = EL.4.26' 2.1' (OCT. 6, 1941)

HIGHEST TIDE OTHER "HURRICANE" = EL.3.64' 3.8' (OCT. 22, 1949)
OTHER HIGH TIDES:
TIDE = EL.3.48' 3.6' (OCT. 15, 1947)
TIDE = EL.3.41' - (OCT. 14, 1943)
TIDE = EL.3.26' - (NOV. 8, 1942)
TIDE = EL.3.24' 3.1' (DEC. 6, 1946)

MEAN HIGH WATER = EL.1.56' (APPROX.)

MEAN SEA LEVEL + EL = EL.0.263
CITY DATUM

MEAN LOW WATER = −0.937'

LOWEST TIDE = EL.−1.51' (FEB. 2−9, 1951)

1—FOR BISCAYNE BAY AT COCONUT GROVE, FOR THE PERIOD FROM NOV. 8, 1940 (WHEN GAGE WAS FIRST PUT INTO OPERATION) TO FEB. 28, 1951.
2—FOR OCEAN AT MIAMI BEACH, REPORTS BY U.S. ENGINEER DEPT. ALSO REPORTED BY THEM WAS ESTIMATED HURRICANE TIDE OF EL.4.7 AT MIAMI BEACH, NOV. 4, 1935 (GAGE WAS OUT).
3—FOR OCEAN AT MIAMI HARBOR ENTRANCE.

TIDE LEVELS BASED ON MIAMI CITY DATUM

FROM RECORDS OF U.S. GEOLOGICAL SURVEY, EXCEPT AS NOTED

N.T.S. MAY 1955

DR: EO
CK: CITY OF PUBLIC WORKS
DEPARTMENT OF PUBLIC WORKS
MISC. 35−89−4 City of Miami, Florida
MISC−5
CITY OF MIAMI

(PROJECT TITLE)

(SOURCE OF FUNDS)

(PROJECT COST)

MAYOR
NAME

CHAIRMAN
NAME

VICE CHAIRMAN
NAME

COMMISSIONER
NAME

COMMISSIONER
NAME

CHIEF ADMINISTRATOR
NAME

DIRECTOR OF PUBLIC WORKS
NAME

(CONSIGNANT)

(CONTRACTOR)

FOR INFORMATION CALL:

CONSTRUCTION SIGN IN PUBLIC RIGHT OF WAY

SCALE: 1"=1'-0"
DO NOT DISPLAY IN A SCANNER THAT SILT FENCES WILL ACT AS A DOWN ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND HUMILITY BARRIERS USED OF PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

ELEVATION

SECTION

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF)

TYPE III SILT FENCE

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STATE DRAINAGE MANUAL
ANCHOR BALES WITH 2 2’x5’x4’ SLOPES PER PER BORE

PLANE

OVERLAP ENDS

ELEVATION

TO BE USED AT SELECT SITES WHERE THE
NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

TYPE A OR B FENCE

NOTE: BALES TO BE STAKED AT
DIRECTION OF THE ENGINEER.

LOOSE SOIL PlACED SHOVEL AND
LIGHTLY COMPACTED ALONG UPSTREAM
FACE OF BALES

BALES BACKED BY FENCE

PARTIAL INLET

CURB & GUTTER

OPEN APRON

DITCH BOTTOM INLET

CURB & GUTTER

COMPLETED INLET

DITCH

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

BALES TO BUTT

ANCHOR BALES WITH 2 2’x5’x4’ SLOPES PER PER BORE

PLAN

LOOSE SOIL PLACED BY SHOVEL AND LIGHTLY
COMPACTED ALONG THE UPSTREAM EDGE OF BALES.

ELEVATION

TO BE USED AT SELECT SITES WHERE THE
NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIER FOR FILL SLOPE

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES
EXHIBIT #2

N.T.S.
ANCHOR BALES WITH 2 2"x2"x4" STAKES PER BALE

SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHAPTER 1.

BARRIER FOR PAVED DITCHES

ANCHOR LOWER BALES WITH 2 2"x2"x4" STAKES PER BALE
ANCHOR TOP BALES TO LOWER BALES WITH 2 2"x2"x4" STAKES PER BALE

ELEVATION

APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITION OUTLINED IN CHAPTER 1.

ELEVATION

BARRIER FOR UNPAVED DITCHES

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES

EXHIBIT #3

N.T.S.

DR: EO
CK: DEPARTMENT OF PUBLIC WORKS
                    CITY OF MIAMI, FLORIDA
MISC. 35-89-6      MISC-7c
CHART I

RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES
EXHIBIT #4
1) Tree protection and pruning shall be accomplished as detailed in special provisions, the construction plans, and or per tree ordinance 12636.

2) The Storm Water Pollution Prevention Plan, SWPPP, submitted to Public Works, shall describe in detail how the construction effort will be phased with regards to minimizing erosion problems by the use of temporary and permanent erosion control measures, for the various sequences of construction operations. Any modifications must be approved by the City of Miami – NPDES Section, Department of Public Works.

3) Environmental control features as provided in the SWPP, are to be installed at all areas of excavation or fill for drainage system, or structure construction prior to such excavation or fill. Inlet entrances are also to be protected from siltation as detailed on sheet 2 of 4 of Misc. 35–89–6.

4) All environmental control features are to be maintained throughout the life of the project in accordance with N.P.D.E.S. requirements. The contractor must insure that all erosion control features function properly at all times.

5) All erosion and material deposits must be contained within the project limits.

6) Any damaged or ineffective rock bags are to be replaced with new ones. The location of rock bags installation is as mentioned in the SWPPP plans. The project engineer may specify other areas as necessary.

7) Ditch bottom inlets shall be protected from sediment intake until project is complete. Elevation of ground outside inlet top shall not be higher than inlet top. Rock bags shall be installed around inlet top. Completed inlets in paved areas shall also be protected with rock bags to prevent sediment intake.

8) Curb inlets also shall be protected from sediment intake until the project is complete. All exposed sloped material adjacent to inlet, shall be covered with erosion control matting with outer limits protected by rock bags.

9) Stockpiled material shall not be left in erosion prone areas unless protected by cover or rock bags.

10) Inspection of erosion control measures and condition of adjacent properties, shall be performed daily by the contractor's representative and the project engineer. Deficiencies shall be noted and corrected.

11) Any onsite sediment discharge to a municipal separate storm water system arising from the contractor's activities is not allowed. Refer to Public Works Department Bulletin No. 25.

12) The use of sanitary sewers, french drains, cover ditches and/or rock drains for the disposal of wastewater is expressly prohibited. Refer to Public Works Department Bulletin No. 25.

* NPDES – National Pollution Discharge Elimination System

**STORM WATER POLLUTION PREVENTION PRACTICES:**
**(FOR PROJECTS OF 1 ACRE OR MORE)**
A) Sequence of soil disturbing activities and implementation of controls:

1. Clear & Grubing
2. Install Drainage Structures
3. Stabilization
4. Base Preparation
5. Asphalt Application
6. Placement of Rock bags around inlets
7. Placement of Rock bags around manholes
8. Application of friction course A.C.
9. Installation of street signing
10. Pavement Marking
11. Remove Rock Bags
12. Clean all construction debris from construction site

B) Erosion & Sediment Control Stabilization Practices:

- Temporary Sodding
- Temporary Grassing
- Permanent Planting, Seeding or Seed & Mulch
- Temporary Mulching
- Artificial Covering
- Buffer Zones
- Preservation of Natural Resources
- Other

C) Structural Practices:

- Sand Bagging
- Silt Fences
- Rock Bags
- Rip Rap
- Turbidity Barrier
- Pipe Slope Drains
- Flumes
- Rock Bedding at construction exit
- Timber Bedding at construction exit
- Ditch Liner
- Sediment Traps
- Sediment Basins
- Storm Inlet Sediment Trap
- Stone Outlet Structure
- Velocity Control Devices
- Storm Sewers
- Other

D) Other Controls:

- Offsite Vehicle Tracking:
  - Haul Roads Dampered for Dust Control
  - Loaded Haul Trucks to be covered with Tarpaulin, or approved equal.
  - Excess Dirt on Road removed daily
  - Stabilized Construction Entrance
  - Concrete truck wash area
  - Other

- Treatment of Storm Water to meet Water Quality:
  - Deep Wells
  - Culverts for Emergency Overflow
  - Pollution Control Structures
  - Other

E) General

1. Approved State, Local Plans or Storm Water Permits.
2. All of the Controls shall be maintained at all times.
3. All controls shall be inspected daily.
4. Apply fertilizers and pesticides according to standard specifications, design and special provisions.
5. Report Non-Storm Water Discharge (Including Spill)
   (305)416-1200,
6. Visit www.dep.state.fl.us/water/stormwater/nepdes/

STORM WATER POLLUTION PREVENTION PLAN (SWPP) CHECK LIST
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SAMPLE PLAN

N.T.S.

DR: EO

DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA

MISC. 35-89-6

MISC-7g
TYPICAL SECTIONS

PLANTING PROCEDURE DETAILS

1. Install root guard flush with surrounding ground. (Root guard not required for palm trees).

2. Place planting soil in planting pit and form lightly compacted mound. Add planting soil and water alternately to exclude air pockets.

3. Form saucer to hold 4" of water. Add planting soil and water alternately to fill planting pit. Excluding air pockets.

N.T.S.        Dec. 1979

DR: EO        DEPARTMENT OF PUBLIC WORKS
CK:           CITY OF MIAMI, FLORIDA

MISC. 17–293  MISC–8a
3 GUY WIRES SHALL BE EQUALLY SPACED AROUND TREE

Plastic Flagging (3 per wire, min.)

14" gauge, double strand twisted guy wire

Rubber hose at fork

Mulch

Saucer

#7 rebars (18" min.)

Root ball

Root guard

MIN. TWICE THE MAX. WIDTH OF THE ROOT BALL

Trees other than palms

Planting procedure details

N.T.S.

Jan. 1980

Dr: EO

Department of Public Works

City of Miami, Florida

Misc. 17-293

Misc. 8b
NOTE: FOR PALMS OVER 20' O.A. USE 4" X 4" BRACES IN LIEU OF 2" X 4".

PLAN VIEW

BANDED MATERIAL
VERTICAL STAKE
2"X4" BRACE
PALM
RUBBER HOSE AROUND BANDED MATERIAL
GUY WIRE (3)

TYPICAL SECTION FOR PLANTING PALM TREES IN SMALL PARKWAYS

PLANTING PROCEDURE DETAILS

N.T.S.
Jan. 1980

DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA

MISC. 17–293
MISC–8c
TYPICAL SECTION FOR PLANTING PALM TREES IN UNRESTRICTED AREAS

PLANTING PROCEDURE DETAILS

N.T.S.  Jan. 1980

DR: EO  DEPARTMENT OF PUBLIC WORKS  MISC. 17–293
CK:     CITY OF MIAMI, FLORIDA  MISC–8d
TYPICAL SECTION FOR PLANTING PALM TREES IN PAVEMENT AREAS

PLANTING PROCEDURE DETAILS

BANDED MATERIAL: FIVE (5) LAYERS OF BURLAP, THREE (3) 12" LONG 2"X 4" BATTENS BANDED TO PALM. SECURE BATTENS WITH 3/4" WIDE STEEL BAND TO HOLD BATTENS IN PLACE DURING PLANTING PROCESS.

3- (2" x 4") BRACES, EQUALLY SPACED NAILED TO BATTENS BANDED TO PALM.

FILL AROUND BALL WITH SPECIFIED PLANTING SOIL MIX.

4" EARTH SAUCER

EXISTING PAVEMENT

MIN. TWICE THE MAX. WIDTH OF THE ROOT BALL

2" x 4" STAKES

3" MULCH LAYER

2" x 4" x 12" NAILER. SPIKE TO PAVEMENT WITH TWO (2) 20D GALV. COMMON NAILS.
**UNDERGROUND LEGEND**

---

**GAS MAINS**

**PROPERTY LINE**

---

**ELECTRIC, TELEPHONE & TELEGRAPH**

**ZONE LINE**

---

**WATER**

---

**CENTER LINE**

**MONUMENT LINE**

---

12" DIA. OR LESS

---

GREATER THAN 12" DIA.

---

**UTILITIES OVER 12" IN DIAMETER OR WIDTH TO BE DRAWN TO SCALE**

---

**MANHOLE : STORM & SANITARY**

---

**TYPE F-3 CATCH BASIN**

---

**TYPE "D" CATCH BASIN**

---

**TYPE "E" CATCH BASIN**

---

**REFERENCES TO BE GROUPED BY UTILITIES, I.E.**

---

**UTILITY VALVES**

---

**HORIZONTAL GATE VALVE**

---

**SYMBOLS**

---

**UTILITY BOXES USED ON U.G. SHEETS**

**MANHOLE INFORMATION**

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<th>RIM ELEV.</th>
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<th>ELEVATION OF PIPE OR DUCT</th>
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<td>½&quot;</td>
<td>1⅛&quot;</td>
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**ON ST. OR AVE.**

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**N.T.S.**

---

DR: EO

DEPARTMENT OF PUBLIC WORKS

MISC 35-88-1

CK:

CITY OF MIAMI, FLORIDA

MISC-9

JAN. 1954
1. THE TEMPORARY ASPHALTIC CONCRETE SURFACE SHALL BE PLACED THE SAME WORKING DAY THE TRENCH IS BACKFILL.

2. COLD PATCH MAY BE SUBSTITUTED FOR PLANT MIX "A" IF THE PERMANENT PAVEMENT WILL BE CONSTRUCTED WITHIN SEVEN (7) DAYS.

3. A MINIMUM OF ONE (1) CERTIFIED LABORATORY DENSITY TEST SHALL BE REQUIRED FOR EACH BACKFILL LAYER FOR EVERY FIFTY (50) LINEAR FEET OR LESS OF TRENCH.

4. TRENCH BACKFILL, INCLUDING TEMPORARY BASE AND SUBGRADE, SHALL BE COMPACTED TO A DENSITY NOT LESS THAN NINETY-FIVE PERCENT (95%) OF AASHTO T-180 (MODIFIED PROCTOR)

5. "CONTROLLED LOW STRENGTH MATERIAL" (FLOWABLE FILL) IN ACCORDANCE WITH F.D.O.T STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 121, MAY BE SUBSTITUTED FOR SAND AND ROCK BACKFILL BETWEEN THE BOTTOM OF THE PAVEMENT BASE AND 6" ABOVE THE CROWN OF THE UTILITY. CERTIFICATION FROM THE FLOWABLE FILL SUPPLIER SHALL BE REQUIRED.

BACKFILL AND TEMPORARY PAVEMENT STANDARDS FOR TRENCHES IN THE PUBLIC RIGHT OF WAY

N.T.S.
1. FINAL PAVEMENT RESTORATION WIDTH SHALL BE IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS BULLETIN NO. 27.

2. EXISTING CONCRETE PAVEMENT OR CONCRETE BASE SHALL BE REPLACED WITH CONCRETE. CONCRETE BASE SHALL BE REINFORCED WITH NO. 6 GAUGE, 6" BY 6" WIRE FABRIC.

3. A MINIMUM OF ONE (1) CERTIFIED LABORATORY DENSITY TEST SHALL BE REQUIRED FOR EACH BACKFILL LAYER FOR EVERY FIFTY (50) LINEAR FEET OR LESS OF TRENCH.

4. TRENCH BACKFILL, INCLUDING TEMPORARY BASE AND SUBGRADE, SHALL BE COMPACTED TO A DENSITY NOT LESS THAN NINETY-FIVE PERCENT (95%) OF AASHTO T-180 (MODIFIED PROCTOR).

5. "CONTROLLED LOW STRENGTH MATERIAL" (FLOWABLE FILL) IN ACCORDANCE WITH F.D.O.T. STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 121, MAY BE SUBSTITUTED FOR SAND AND ROCK BACKFILL BETWEEN THE BOTTOM OF THE PAVEMENT BASE AND 6" ABOVE THE CROWN OF THE UTILITY. CERTIFICATION FROM THE FLOWABLE FILL SUPPLIER SHALL BE REQUIRED.

BACKFILL AND PERMANENT PAVEMENT STANDARDS FOR TRENCHES GREATER THAN 6" IN WIDTH IN THE PUBLIC RIGHT OF WAY

N.T.S.
1. Final pavement restoration width shall be in accordance with Department of Public Works Bulletin No. 27.

2. Existing concrete pavement or concrete base shall be replaced with concrete.

3. "Controlled low strength material" (flowable fill) may be substitute for 12" limerock base.

**BACKFILL AND PERMANENT PAVEMENT STANDARDS FOR TRENCHES 6" OR LESS IN WIDTH IN THE PUBLIC RIGHT OF WAY**

N.T.S.

DR: EO

DEPARTMENT OF PUBLIC WORKS

MISC. 35–88–8

CK: MISC-12

CITY OF MIAMI, FLORIDA