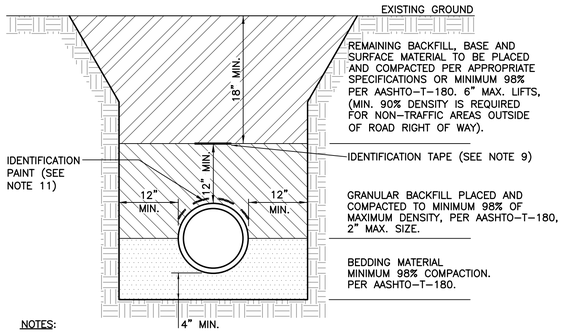


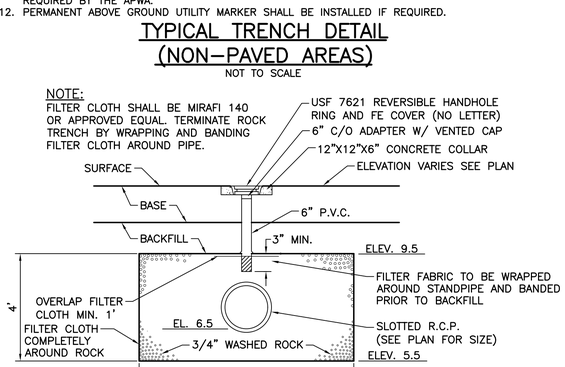
NOTES:

1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK AND DEBRIS.
5. DENSITY TESTS ARE TAKEN IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAXIMUM, (MINIMUM 1 SET) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION AS PART OF THEIR FIELD REVIEW.
6. THE PERMITTEE/DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL TRENCH SAFETY LAWS AND REGULATIONS.
7. SEE SEPARATE DETAIL FOR PAVED AREAS (OPEN CUT FOR THOROUGHFARE AND NON-THOROUGHFARE ROADS).
8. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT/CONTRACT DOCUMENTS.
9. APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 18" BELOW FINISHED GRADE.
10. ROOT BARRIER IS REQUIRED FOR APPROVED PIPE INSTALLATION CLOSER THAN 10 FEET FROM AN EXISTING TREE. SEE SEPARATE DETAIL FOR ROOT BARRIER.
11. CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), DIP SANITARY FORCE MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.
12. PERMANENT ABOVE GROUND UTILITY MARKER SHALL BE INSTALLED IF REQUIRED.

TYPICAL TRENCH DETAIL (NON-PAVED AREAS)

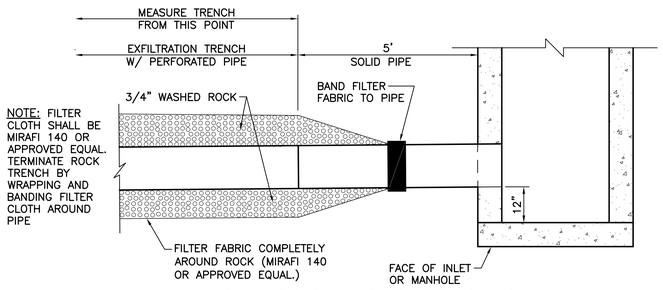
NOT TO SCALE

NOTE:
FILTER CLOTH SHALL BE MIRAFI 140 OR APPROVED EQUAL. TERMINATE ROCK TRENCH BY WRAPPING AND BANDING FILTER CLOTH AROUND PIPE.



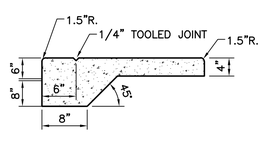
EXFILTRATION TRENCH

NOT TO SCALE



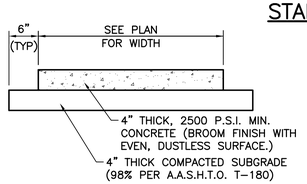
FILTER FABRIC END CLOSURE DETAIL

NOT TO SCALE



RAISED SIDEWALK DETAIL

NOT TO SCALE



TYPICAL SIDEWALK DETAIL

NOT TO SCALE

CONSTRUCTION PROCEDURES

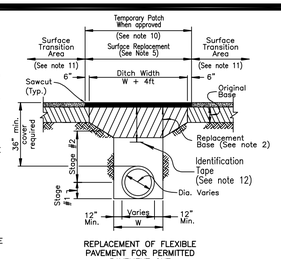
THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

STAGE 1:

THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

STAGE 2:

THE CONTRACTOR SHALL OBTAIN A WELL-COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE AND TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

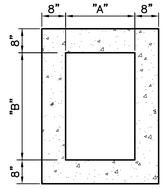


REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED PAVEMENT CUT

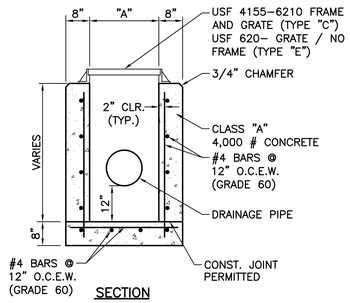
NOTES

1) BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
2) REPLACED BASE MATERIAL OVER DITCH SHALL BE 16" LIMEROCK (LBR100) MINIMUM FOR THOROUGHFARE PLAN ROADS. ANY ALTERNATE BASE MATERIAL REQUESTED BY THE ENGINEER OF RECORD REQUIRES APPROVAL BY THE ROADWAY PRODUCTION DIVISION.
3) ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED AND BUTT-JOINTED.
4) BASE MATERIAL (PER ROADWAY PRODUCTION DESIGN STANDARDS) SHALL BE PLACED IN TWO OR THREE LAYERS (6" MAX. PER LAYER) AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY. (MINIMUM 98% AASHTO T-180).
5) 1" FRICTION COURSE FC-9.5 OVER 1-1/2" TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) WITH TACK COAT AT 0.05 GAL/SY AND RC-70 PRIME COAT AT 0.10 GAL/SY FOR LIMEROCK BASE. FOLLOW THE LATEST FDOT SPECIFICATIONS FOR APPLICATION RATES OF PRIME AND TACK COATS. CONTRACTOR TO SUBMIT MATERIALS AND RATES TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
6) PIPE SHALL BE PLACED IN A DRY TRENCH.
7) ALL ROADWAY REPAIR WORK SHALL BE PERFORMED IN CONFORMANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND COUNTY PPM# EL-0-3605.
8) DENSITY TESTS SHALL BE TAKEN IN 1 FT LIFTS ABOVE THE PIPE AT INTERVALS OF 400 FT MAXIMUM (1 SET MINIMUM) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION DIVISION AS PART OF THEIR FIELD REVIEW.
9) ENGINEER-OF-RECORD SHALL PROVIDE FULL-TIME INSPECTION DURING THE ENTIRETY OF THE OPEN-CUT OPERATION, BEGINNING WITH THE EXCAVATION AND CONTINUING THROUGH THE COMPLETION OF THE PAVING.
10) IF THE PAVEMENT IS NOT COMPLETELY RESTORED IMMEDIATELY FOLLOWING THE OPEN CUT, A SMOOTH TEMPORARY PATCH (MINIMUM 1.5" SP 12.5 STRUCTURAL COURSE ASPHALT) SHALL BE INSTALLED, PROPERLY MATCHING THE EXISTING GRADING OF THE ROADWAY. THE TEMPORARY PATCH SHALL BE ALLOWED TO REMAIN IN PLACE AND BE MAINTAINED FOR A PERIOD NO LONGER THAN 45 DAYS. THE COUNTY RETAINS THE RIGHT TO USE POSTED SURETY TO COMPLETE ANY RESTORATION WORK THAT HAS NOT BEEN COMPLETED IN THE 45 DAY PERIOD. ALTERNATIVE TEMPORARY TRENCH PROTECTION (STEEL PLATES OR OTHERS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATION DIVISION.
11) FOR FINAL RESTORATION (INCLUDES THE PATCHED/SURFACE REPLACEMENT AREA OVER THE TRENCH). THE ROAD SHALL BE MILLED/RESURFACED PER NOTE 5 ABOVE FOR A FULL LANE WIDTH OF THE TRAVEL LANES ENCROACHED BY THE TRENCH AREA, INCLUDING A TRANSITION AREA OF 50 FT ON EACH SIDE MEASURED FROM TOP OF TRENCH.
12) APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.
13) CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), SANITARY MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.

OPEN CUT DETAIL FOR THOROUGHFARE ROADS (PAVED AREAS)



PLAN

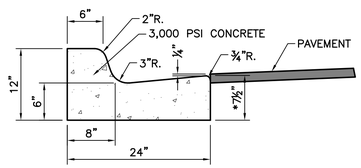


SECTION

TYPE INLET	DIMENSIONS	
	"A"	"B"
C	2'-0"	3'-1"
E	3'-0"	4'-6"

STANDARD TYPE "C"&"E" INLET

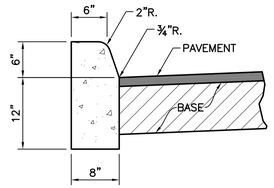
NOT TO SCALE



*NOTE: WHEN USED ON HIGH SIDE OF ROADWAY, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS

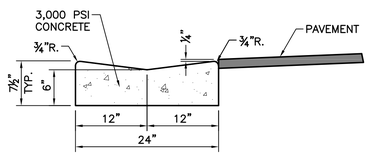
TYPE "F" CURB

NOT TO SCALE



TYPE "D" CURB

NOT TO SCALE

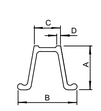


CURB AND GUTTER NOTES:
1.) CONCRETE SHALL BE MINIMUM OF 3,000 PSI
2.) TYPE "A" CONTRACTION JOINTS SHALL BE @ 10' O.C.
3.) TYPE "B" EXPANSION JOINTS SHALL BE @ P.C./P.T. AND 100' O.C.

2' VALLEY GUTTER-SYMMETRICAL

NOT TO SCALE

ISOMETRIC VIEW



'A'	1.875"
'B'	3.5"
'C'	1.313"
'D'	0.22"

CHANNEL POST

GENERAL SPECIFICATIONS:

FLAT BLADE: ALCOA #86054.6063-T6 ALLOY, ETCHED, DEGREASED WITH #1200 ALODINE FINISH WITH #3877 GREEN DIAMOND GRADE BACKGROUND AND EQUAL DIMENSIONS - 9" & 12" MIN. H, 24", 30", 36" AND 42" L.

LETTERS: NAME - 6" UPPERCASE WITH 4.5" LOWERCASE & 9" UPPERCASE WITH 6.75" LOWERCASE. SERIES "B" #3870 DIAMOND GRADE (SILVER) OR EQUAL - SUFFIX - 4.5"

POST: STEEL FLANGED CHANNEL POST 3 LBS. PER FOOT WITH BAKED GREEN ALKYD OR GALVANIZED FINISH PER A.S.T.M. -A-123 WITHOUT ANCHOR PLATES. SQUARE POST PER FDOT INDEX 700-010.

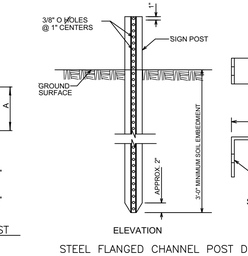
BRACKETS SHALL BE ATTACHED FIRMLY ON STANDARD SQUARE TUBE OR U-CHANNEL POSTS BY MEANS OF (2)⅝" DIAMETER HEX HEAD BOLTS.

STOP SIGN: R1-1 MUTCD - DIAMOND GRADE

LOCATION: ONE PER INTERSECTION AS INDICATED ON THE PLANS.

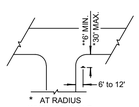
POLICY:
9" BLADES WITH 6" UPPER CASE WITH 4.5" LOWERCASE LETTERS FOR TWO LANE ROADS WITH A SPEED LIMIT UNDER 45 MPH
12" BLADES WITH 9" UPPERCASE WITH 6.75" LOWERCASE LETTERS FOR:
-THOROUGHFARE ROADS FOUR LANES OR WIDER.
-TWO LANE ROADS WITH A POSTED SPEED LIMIT OF 45 MPH OR MORE.

ONLY ONE BLADE WILL BE INSTALLED AT INTERSECTION WITH THOROUGHFARE ROAD INDICATING THE SIDE STREET NAME.

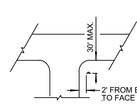


STEEL FLANGED CHANNEL POST DETAILS

STEEL SQUARE TUBE POST DETAILS



UNCURBED SECTION

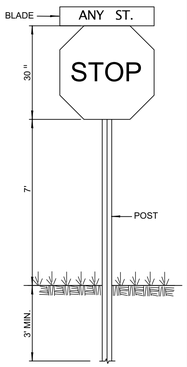


CURBED SECTION

IF STOP BAR IS USED IT SHALL BE PLACED AT THE STOP SIGN

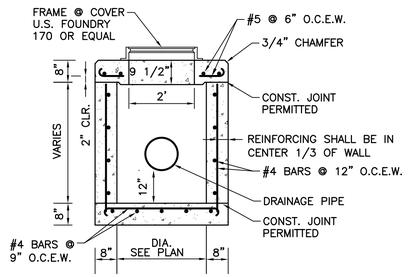
TYPICAL STOP SIGN PLACEMENT

STREET NAME SIGN (SNS) or (D-3)



STREET NAME SIGN WITH STOP SIGN

NOT TO SCALE



SECTION

STANDARD MANHOLE

NOT TO SCALE

INLET AND MANHOLE NOTES
1. ALL EXPOSED CORNERS AND EDGES SHALL BE CHAMFERED 3/4".
2. INLETS AND MANHOLES SHALL BE PRECAST CLASS "A" 4,000 P.S.I.. CONCRETE.
3. FRAMES AND GRATES SHALL BE CAST IRON AND IN ACCORDANCE WITH F.D.O.T.. SPECIFICATIONS.
4. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. 615 GRADE 60.
5. INLET GRATES SHALL BE U.S. FOUNDRY DWG. OR EQUAL. (USF 4155-6210 TYPE "C", USF 6290 TYPE "E") TYPE "E" GRATE CAST IN TWO SECTIONS.
6. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.

2001 N. ANDREWS AVE

ERIK R. COOPER LICENSE No. 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIK R. COOPER, P.E. ON 2/23/2024.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REVISIONS

SIMMONS & WHITE
2581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3452 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	B.L.			

CHENEY BROTHERS POMPANO BEACH
SECTION 27, TOWNSHIP 48S, RANGE 42E.
CITY OF POMPANO BEACH, FLORIDA
CONCEPTUAL PAVING AND DRAINAGE DETAILS

JOB NO.	DRAWING NO.	SHEET	OF
22-187	22187C04	14	15

DRC
P24120000541
04/03/2024

Y:\AUTOCAD_FILES\2022\22-187\CONCEPTUAL\22187C04-07_PDD.dwg 2/23/2024 4:14 PM Robert Wyre