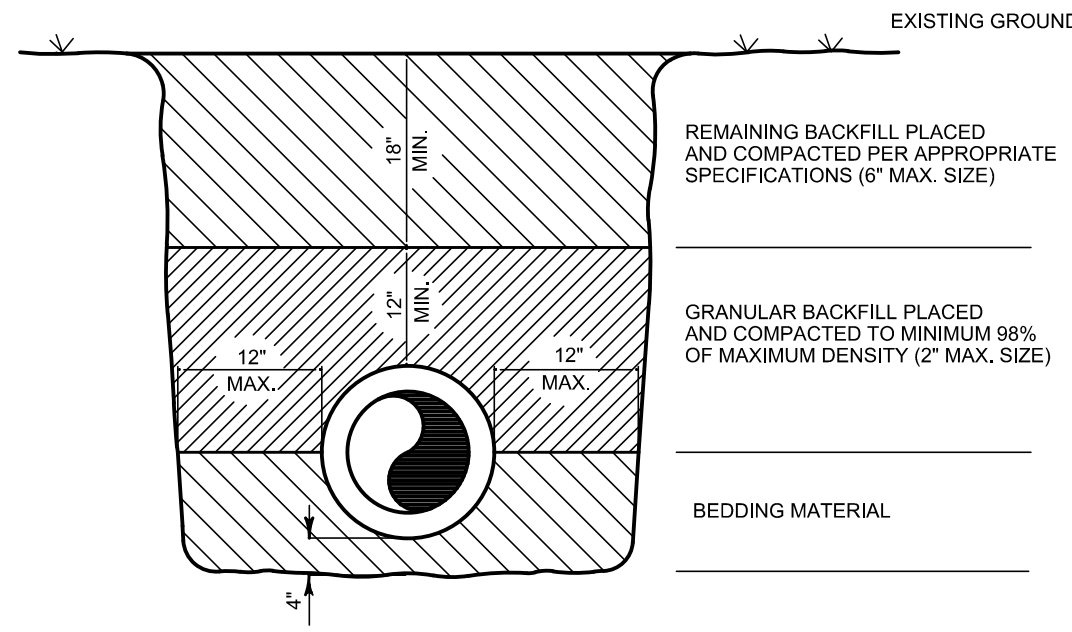


**MICHAEL B. SCHORAH & ASSOCIATES, INC.**  
 ENGINEERS • SURVEYORS • DEVELOPMENT CONSULTANTS  
 TEL. (561) 968-0080  
 FAX. (561) 642-9726  
 www.mbsch.com  
 LE# 2438  
 EB# 2438  
 1850 FOREST HILL BLVD., SUITE 206  
 WEST PALM BEACH, FLORIDA 33406



**NOTES:**

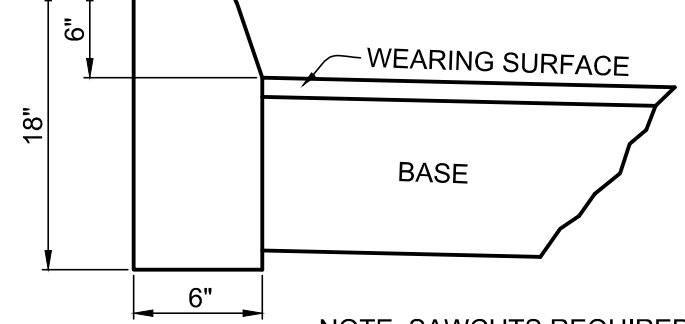
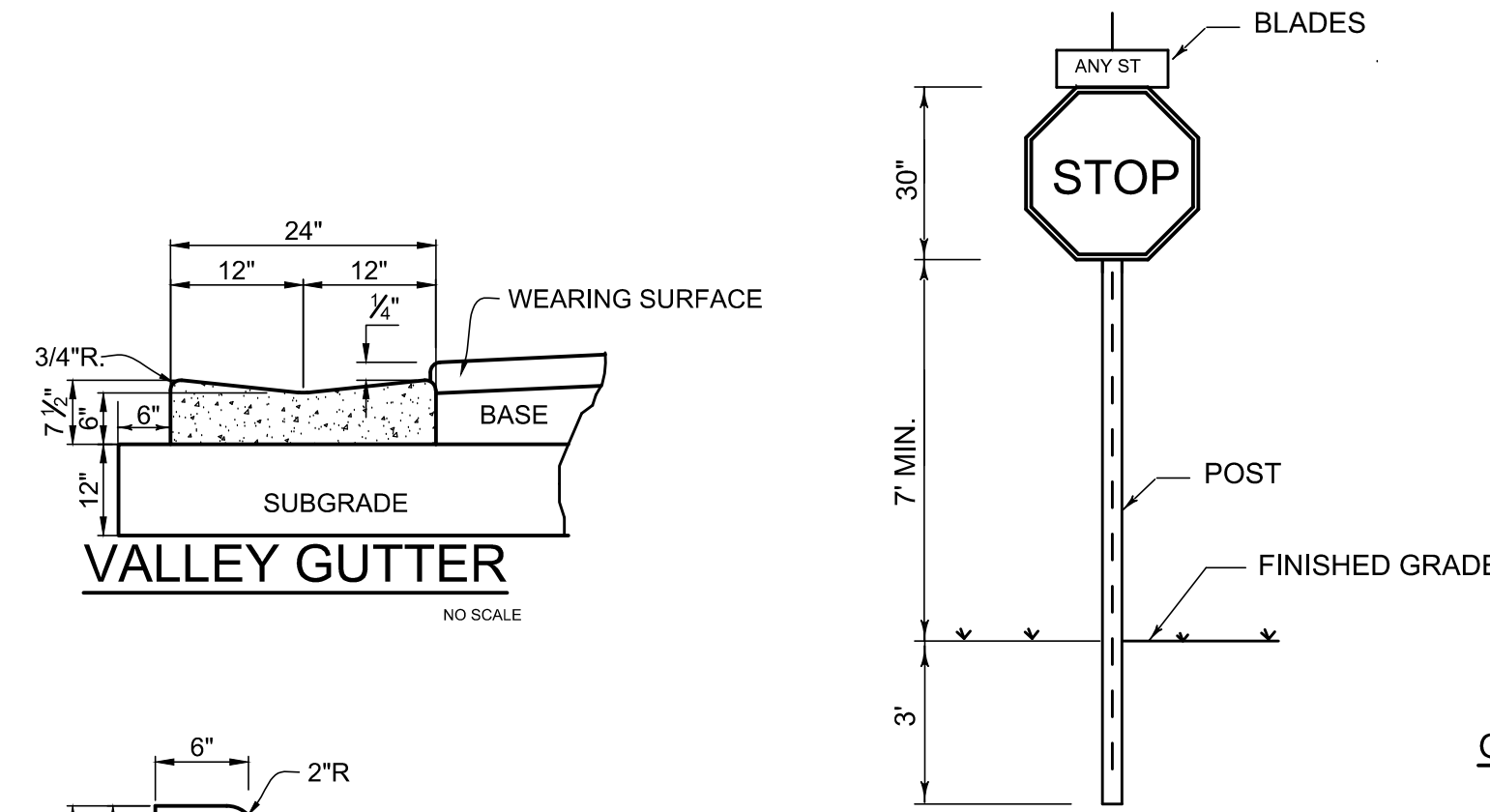
- BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK (30"± SIZES). UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCK SHALL BE REMOVED.
- THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
- THE PIPE SHALL BE PLACED IN A DRY TRENCH.
- BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL LARGER ROCK, MUCK AND DEBRIS.
- EXCAVATION, SIDE SLOPES, SHORING, ETC., SHALL CONFORM TO O.S.H.A. STANDARDS.

**TRENCH DETAIL**  
NO SCALE

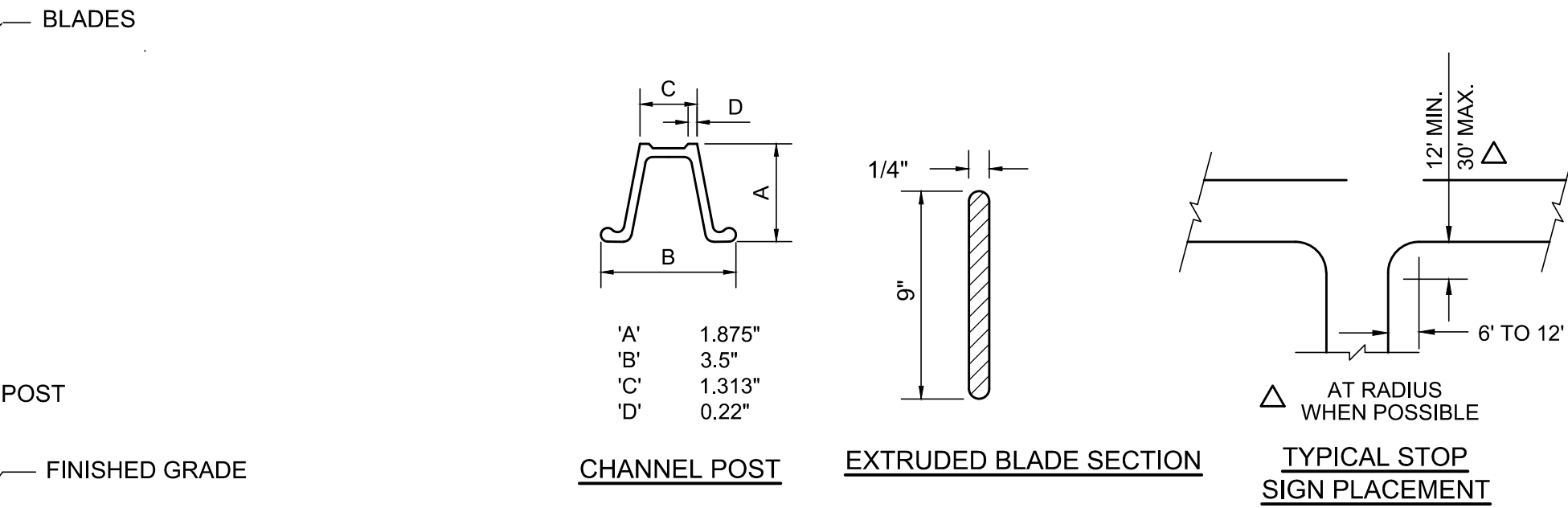
**FILL MATERIAL SPECIFICATIONS:**

SITE-GRADING FILL SHALL CONSIST OF CLEAN, GRANULAR MATERIALS THAT ARE FREE OF DEBRIS, CINDERS, COMBUSTIBLES, ROOTS, SODS, WOOD, CELLULOSE, ORGANIC MATERIALS, AND MATERIALS SUBJECT TO TERMITES ATTACK. THE ORGANIC CONTENT OF THE FILL SHALL BE LESS THAN 2% (BY WEIGHT). FILL SHALL HAVE LESS THAN 10 PERCENT PASSING THE U.S. STANDARD NO. 200 SIEVE (DRY WEIGHT BASIS) AND HAVE NO PARTICLE SIZE LARGER THAN 3 INCHES UNLESS IT CAN BE DEMONSTRATED THAT SUCH PARTICLES CAN BE BROKEN DOWN TO THE MAXIMUM SPECIFIED SIZE UNDER THE TRAFFIC OF THE EARTHWORK SPREADING AND COMPACTION EQUIPMENT.

FILL FOR LANDSCAPE BERMS, COMMON AREAS, OR OTHER AREAS THAT DO NOT REQUIRE STRUCTURAL FILL SHALL MEET THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 162.



**TYPE 'D' CURB**  
NO SCALE



**GENERAL SPECIFICATIONS:**

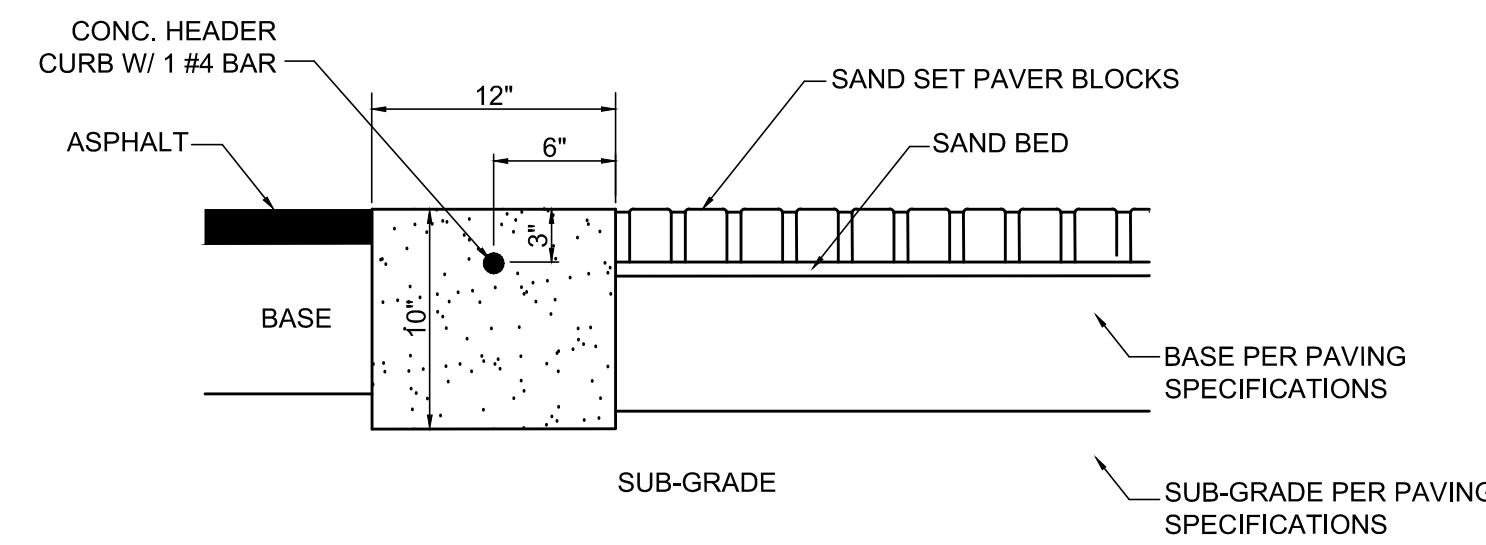
- EXT. BLADE:** ALCOA NO.86054,6063-T6 ALLOY, ETCHED DEGREASED DEBURRED, WITH NO.1200 ALODINE FINISH WITH #3877 GREEN HIGH INTENSITY BACKGROUND OR EQUAL. DIMENSIONS - 9" HEIGHT, 24", 30" OR 36" LENGTHS.
- LETTERS:** NAME - 6" SERIES "B" #3870 HIGH INTENSITY (SILVER) OR EQUAL. SUFFIX - 4 1/2" SERIES AS ABOVE.
- 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 FOOT INDEX 11865. BRACKETS SHALL BE ATTACHED FIRMLY ON STANDARD SQUARE TUBE OR U-CHANNEL POSTS BY MEANS OF (2) 5/16" DIAMETER HEX HEAD BOLTS.
- STOP SIGN:** RI-1 MUTCD - 30"x 30" (HIGH INTENSITY)
- FIRE DEPT. ACCESS ONLY SIGN:** 12" X 18" WHITE WITH 4" RED LETTERS (HIGH INTENSITY)
- PEDXING:** W11-2 MUTCD - 30"x30" (HIGH INTENSITY), W16-9P AND W16-7PL MUTCD - 24"x12" (HIGH INTENSITY).
- KEEP RIGHT:** R4-7 MUTCD - 24"x30" (HIGH INTENSITY)

**STOP/STREET SIGN DETAILS**  
NO SCALE

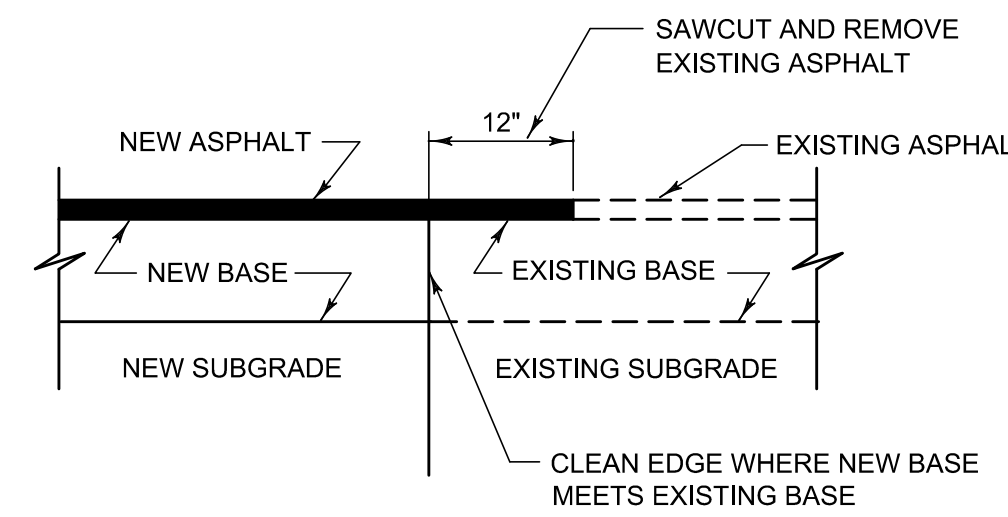
**BACKFILLING EXCAVATION**

- ALL STRUCTURES, PIPE LINES AND JOINTS AND OTHER CONSTRUCTION SHALL BE SUBJECT TO FIELD OBSERVATION BY THE ENGINEER (OR HIS REPRESENTATIVE) PRIOR TO BACKFILLING.
- BACKFILLING SHALL BE DONE WITH APPROVED MATERIAL, FREE FROM LARGE CLOUDS, ROCKS, ORGANIC MATERIALS OR OTHER EXTRANEANEOUS MATERIAL.
- BACKFILLING OF STRUCTURE (MANHOLES, ETC) EXCAVATIONS AND REQUIRED FILL UNDER STRUCTURE SLABS SHALL BE DONE IN HORIZONTAL LIFTS NOT EXCEEDING TWELVE (12) INCHES IN DEPTH, AND SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 98% OF THE MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180.
- BACKFILL MATERIAL FOR PIPE EXCAVATION SHALL BE SELECTED, DEPOSITED AND COMPACTED SO AS TO ELIMINATE THE POSSIBILITY OF HORIZONTAL OR LATERAL DISPLACEMENT OF THE PIPE. BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AROUND THE PIPES IN TWELVE (12) INCH LIFTS UP TO A LEVEL AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE PIPE. BACKFILLING SHALL BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDES OF THE PIPE. THE REMAINDER OF THE BACKFILL SHALL BE PLACED IN TWELVE (12) INCH LIFTS (COMPACTED THICKNESS), MOISTENED AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 98% OF THE MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180. WATER SETTLING MAY BE UTILIZED AT THE OPTION OF THE CONTRACTOR, PROVIDED THE REQUIRED DENSITY IS ACHIEVED. IN AREAS WHERE PAVING IS TO BE PLACED OVER THE BACKFILLED TRENCH, COMPACTION SHALL BE CARRIED OUT TO ACHIEVE A DENSITY OF AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180 FOR A MINIMUM OF THE TOP THREE (3) FEET OF THE BACKFILLED TRENCH (THE REMAINING DEPTH AS NOTED ABOVE) AND EXTENDING TO THE TRENCH WIDTH + TWO (2) FEET - SEE DETAIL.
- DENSITY TESTS FOR DETERMINATION OF THE SPECIFIED COMPACTION SHALL BE MADE BY AN APPROVED ENGINEERING TESTING LABORATORY. TESTS SHALL BE TAKEN IN ALL COMPACTED LIFTS (1 FOOT MINIMUM) AND SPACED ONE (1) FOR EVERY 400 FEET OF TRENCH (MAXIMUM) WITH AT LEAST ONE (1) TEST IN EACH PIPE RUN (STRUCTURE TO STRUCTURE). WHERE TRENCH CROSSES AREAS TO BE PAVED, A MINIMUM OF ONE (1) OF THE REQUIRED DENSITY TESTS MUST BE TAKEN IN THAT AREA.
- EXCAVATION, SIDE SLOPES, SHORING, ETC., SHALL CONFORM TO O.S.H.A. STANDARDS.

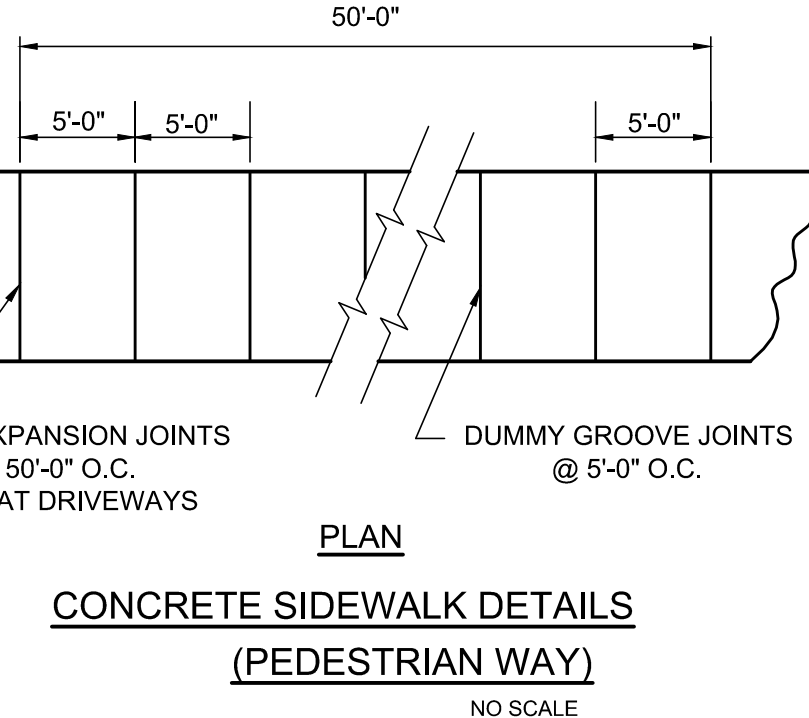
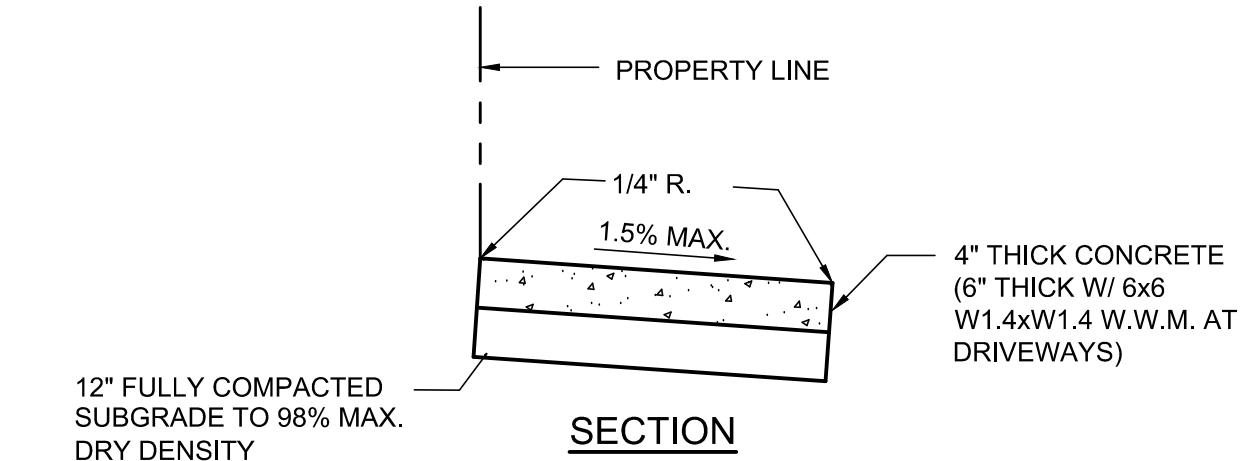
**BACKFILL NOTES**



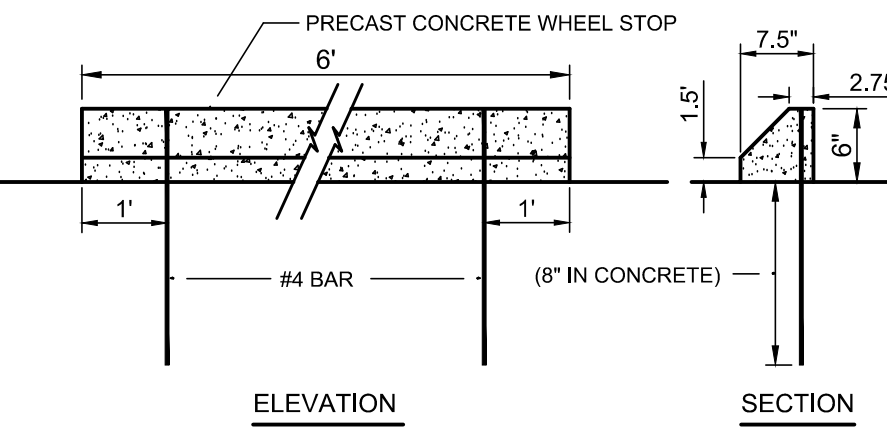
**PAVER BLOCK/HEADER CURB DETAIL**  
NO SCALE



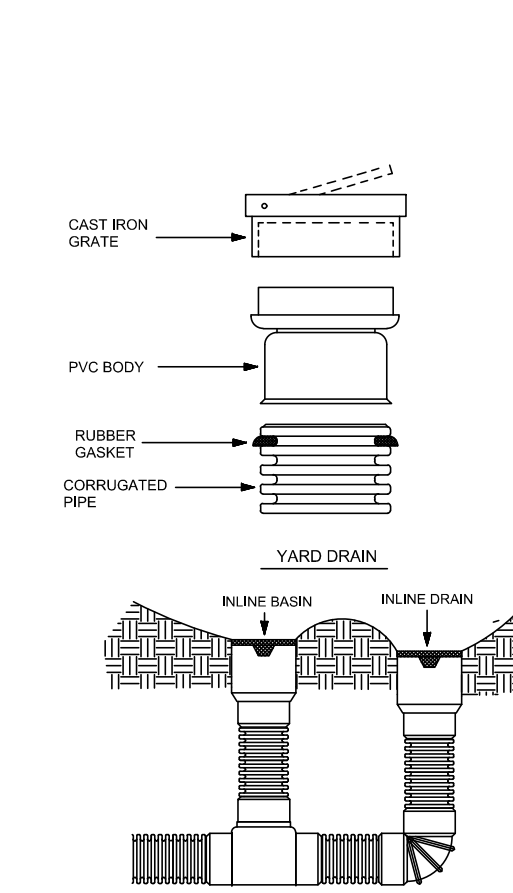
**ASPHALT JOINT DETAIL**  
NO SCALE



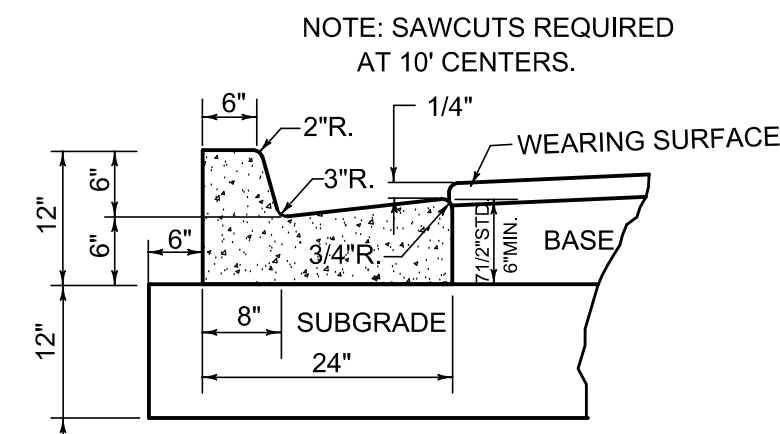
**CONCRETE SIDEWALK DETAILS (PEDESTRIAN WAY)**  
NO SCALE



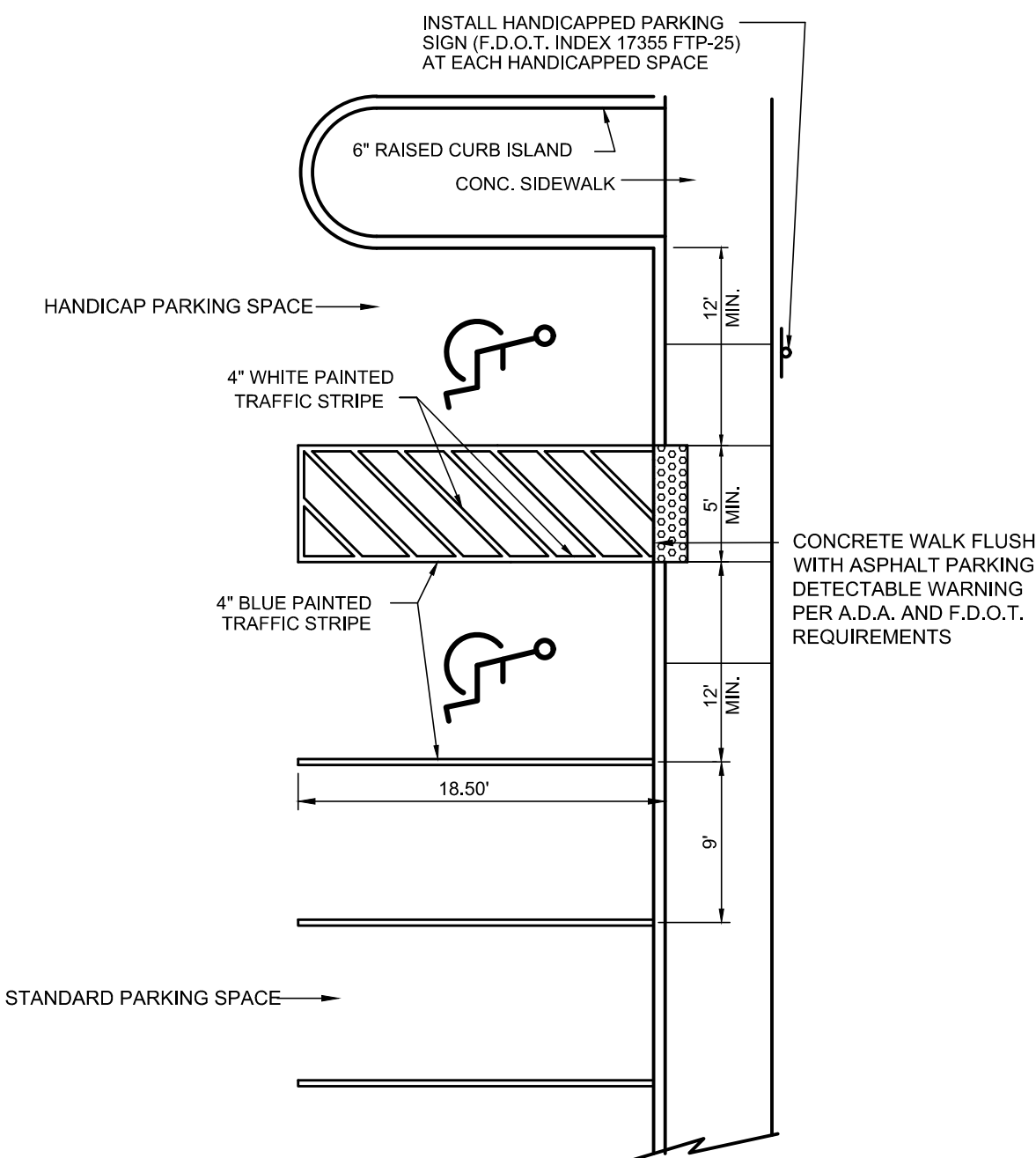
**WHEEL STOP**  
NO SCALE



**YARD DRAIN DETAIL**  
NO SCALE



**CONCRETE CURB AND GUTTER**  
NO SCALE



**PARKING STALL DETAIL**  
NO SCALE

**NYLOPLAST 12" INLINE DRAIN: 2712AG \_\_ X**

ADAPTER SIZE	B
2"	10.50
4"	11.50
6"	11.50
10"	11.25
12"	9.00

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PERFORATED	MEETS H-15	1299CSP	7001-110-202
STANDARD	MEETS H-20	1299CSB	7001-110-203
SOLID COVER	MEETS H-20	1299CSG	7001-110-204
PERFORATED BRONZE	N/A	1299CSPB	7001-110-205
DOME	N/A	1299CSDB	7001-110-206
GRID IN GRATE	LIGHT DUTY	1299D	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 15-05-06, WITH THE EXCEPTION OF THE BRONZE GRATE.

2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 15-05-06.

3 - DRAINAGE CONNECTION SUB-JOINT TIGHTNESS SHALL CONFORM TO ASTM D212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.

4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.

5 - DIMENSIONS ARE IN INCHES.

6 - SEE DRAWING NO. 7001-110-215 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

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3130 VERNON AVE  
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PHN (770) 332-2443  
FAX (770) 832-6499  
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DRAWN BY: EBC  
DATE: 04-03-06  
REVISED BY: MNH  
DATE: 03-15-16  
PROJECT NO.: NAME  
DWG NO.: A SCALE: 1:20 SHEET: 1 OF 1

12 IN. IN-LINE DRAIN QUICK SPEC INSTALLATION DETAIL  
DWG NO. 7001-110-025 REV. E

NO.	REVISIONS

DRAWN/CHECKED:	JIV
SCALE:	NO SCALE
DATE:	AUGUST 2016

PROJECT: FLORENCE FULLER CHILD DEVELOPMENT CENTER  
 DESCRIPTION: PAVING AND DRAINAGE DETAILS

JOB NO. 1544  
 SHEET NO. 8  
 OF 14