

**CONCRETE MIX DESIGN**

MIX FOR ONE CUBIC YARD OF FIBER-REINFORCED CONCRETE

28 DAY STRENGTH	4000 PSI
CEMENT (ASTM C-150, TYPE III)	4.64 SACKS (436 LBS.)
FLY ASH (ASTM C-618)	1.16 SACKS (109 LBS.)
GRAVEL (ASTM C-33, GRADE A)	1775 LBS.
SAND (ASTM C-33)	1226 LBS.
WATER (FOOT/PALE)	30 GALLONS (250 LBS.)
WATER REDUCER (ASTM C-494)	16.35 LBS.
AIR ENTRAINMENT	1.58 BY VOLUME, USE PER MANUFACTURERS SPECIFICATIONS
FIBER REINFORCEMENT	NOVA MESH, OR EQUAL (APPROVED IN WRITING BY THE CITY ENGINEER)

ALL CONCRETE PAYMENT PLACED FOR ROADWAY CONSTRUCTION SHALL INCLUDE NOVA MESH (OR EQUAL) POLYPROPYLENE FIBER REINFORCEMENT APPLIED AT A RATE OF ONE AND ONE-HALF (1½) BAGS PER CUBIC YARD OF CONCRETE. POLYPROPYLENE FIBER REINFORCEMENT SHALL BE APPLIED AT THE PLANT. THE BAGS MUST BE BROKEN BEFORE MIXING. BAG SIZE SHALL BE ONE (1) POUND.

CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT NEEDED TO CONSTRUCT HANDICAP RAMPS, AT INTERSECTIONS, MEDIAN, OR AS DIRECTED BY THE CITY ENGINEER. THE CONCRETE USED TO CONSTRUCT THE RAMPS SHALL BE SIX (6) INCH THICK, 4000 PSI, AT 28 DAYS. WHERE NECESSARY OR AS DIRECTED BY THE CITY ENGINEER, EXISTING SIDEWALK SHALL BE REMOVED AND REPLACED WITH NEW PORTLAND CEMENT CONCRETE SIDEWALK AND TRUNCATED DOME TILE, AS STIPULATED ACCORDING TO AMERICAN DISABILITY ACT REQUIREMENT.

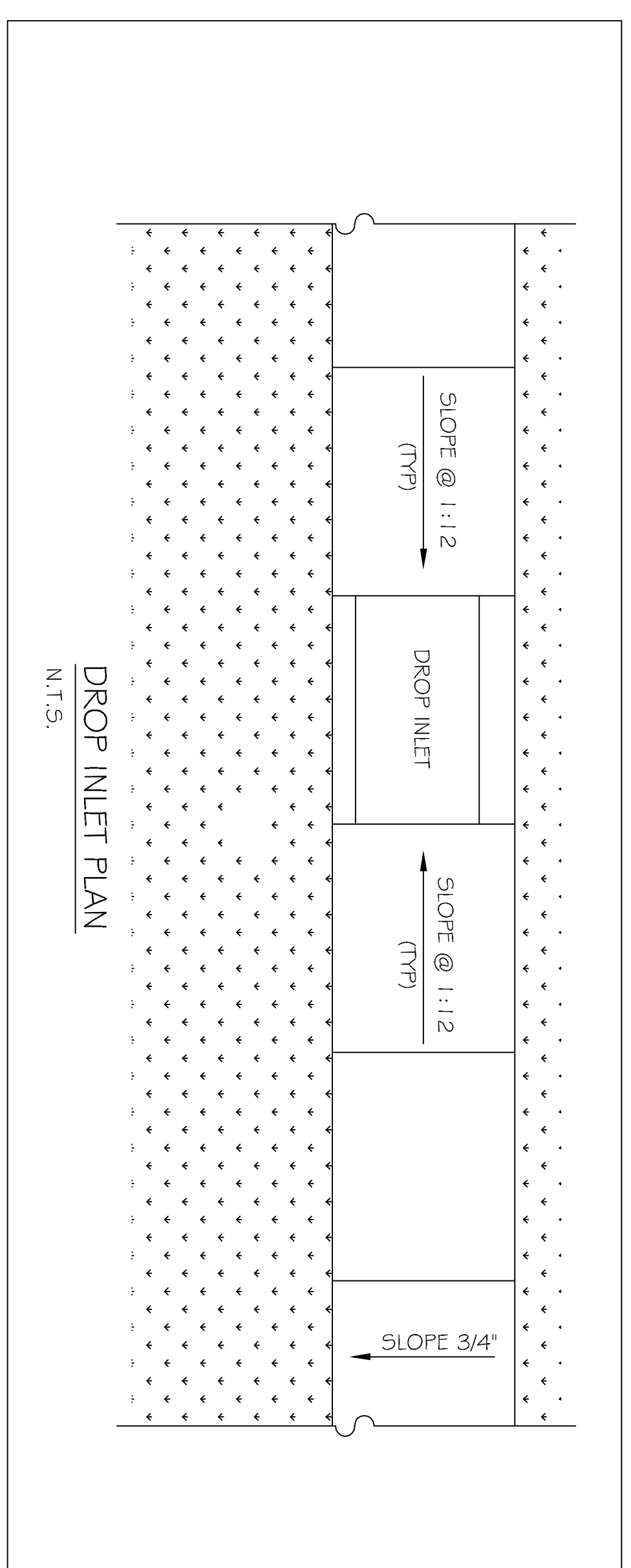
TRUNCATED DOME TILE SHALL BE MINIMUM ¼-INCH THICK WITH EMBEDDED TRUNCATED DOME, 3-INCHES ON CENTER THROUGH ENTIRE LENGTH OF TILE. TILE SURFACE SHALL BE COVERED WITH PROTECTIVE PLASTIC SHEETING. EACH HANDICAP RAMP SHALL CONSIST OF ONLY ONE TILE, WHICH SHALL BE ANCHORED INTO THE CONCRETE. THESE ARE A NO DIRECT PAY ITEM.

**NOTES:**

- 1) SIDEWALKS SHALL BE LOCATED AS NOTED AND INSTALLED WITH THE LAY OF THE LAND. FIELD VERIFY WITH CITY ENGINEERING AND DAMMON ENGINEERING PRIOR TO FORMING. SCALING DIMENSION TO PRELIMINARY LOCATE SIDEWALKS IS PERMITTED.
- 2) ALL SIDEWALKS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE AND HAVE A MINIMUM THICKNESS OF 4".
- 3) SAND BASE COURSE (TYP) SHALL HAVE A MINIMUM OF 6" THICK COMPACTED TO 95% STANDARD PROCTOR.
- 3) PROVIDE SYNTHETIC FIBER REINFORCING IN ACCORDANCE WITH ASTM C 1116 IN ALL CONCRETE SIDEWALKS.
- 4) ALL SIDEWALKS SHALL BE SLOPED TO A DEPTH OF 3/4" AT FIVE FOOT INTERVALS.
- 5) ALL SIDEWALKS SHALL BE SLOPED 3/4" MAX CROSS SLOPE TO THE ADJACENT STREET OR DRIVEWAY.
- 6) PROVIDE DETECTABLE WARNING SYSTEM (CAST IN PLACE) WHERE NEW SIDEWALKS TERMINATE INTO EXISTING STREETS AS NOTED.
- 7) DRAIN TILE FININGS SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE, MEETING CLASS 100 C-900 PVC.
- 8) FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
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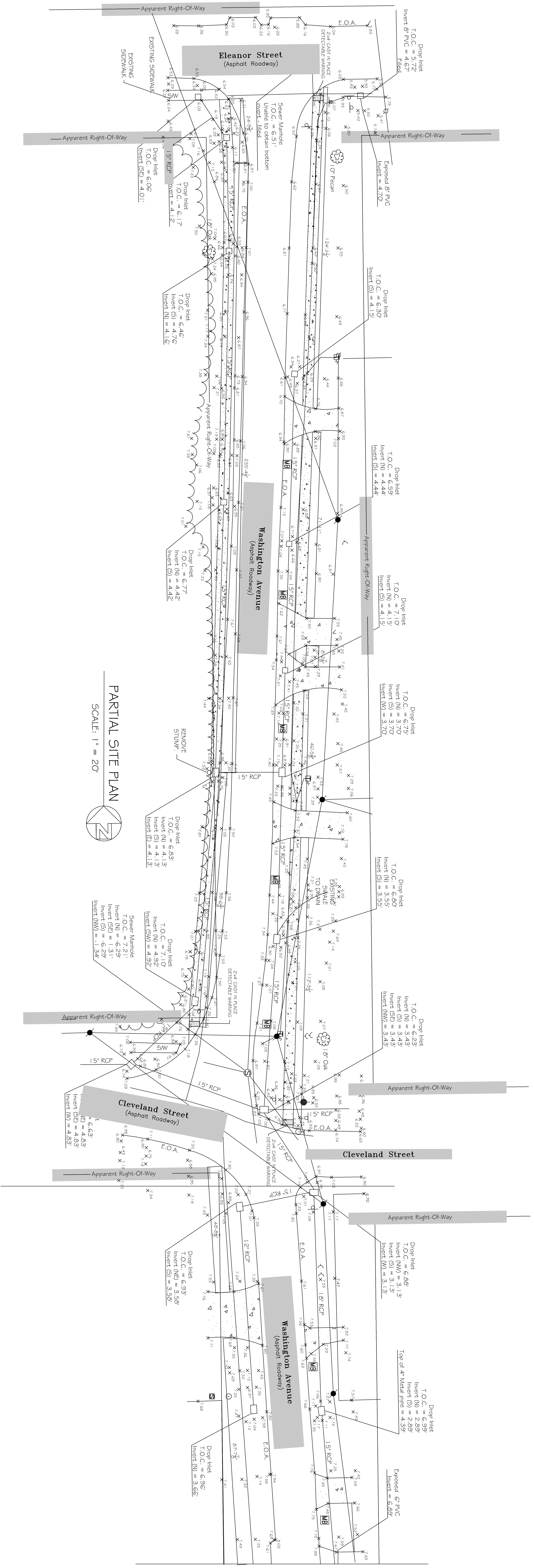
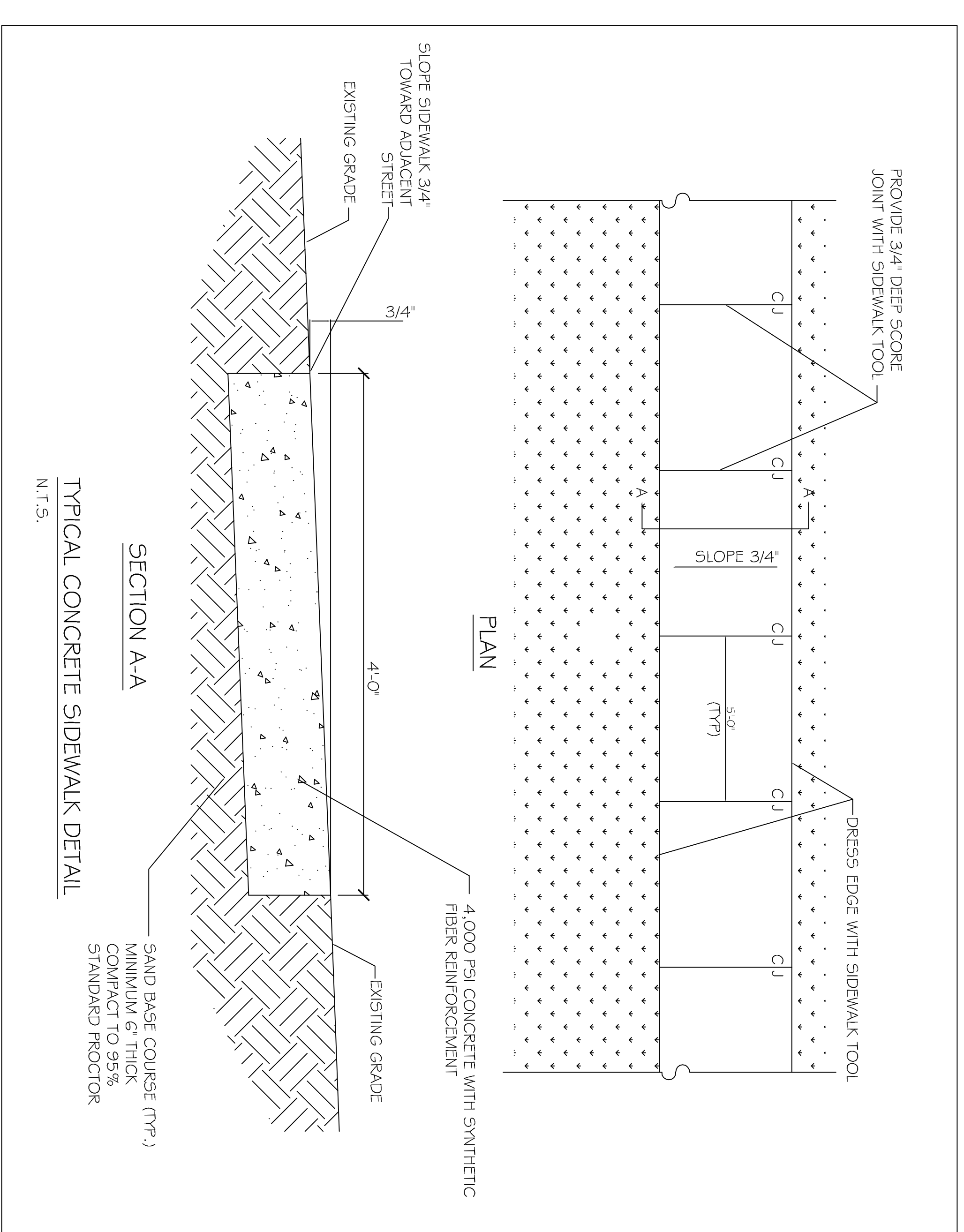
**TRAFFIC CONTROLS:**

ANY WORK WITHIN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO THE NORMAL TRAFFIC FLOW SHALL BE APPROVED BY THE CITY OF SLIDELL, AND MUST CONFORM TO THE CITY OF SLIDELL TRAFFIC CONTROL REGULATIONS. CONTRACTOR SHALL FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

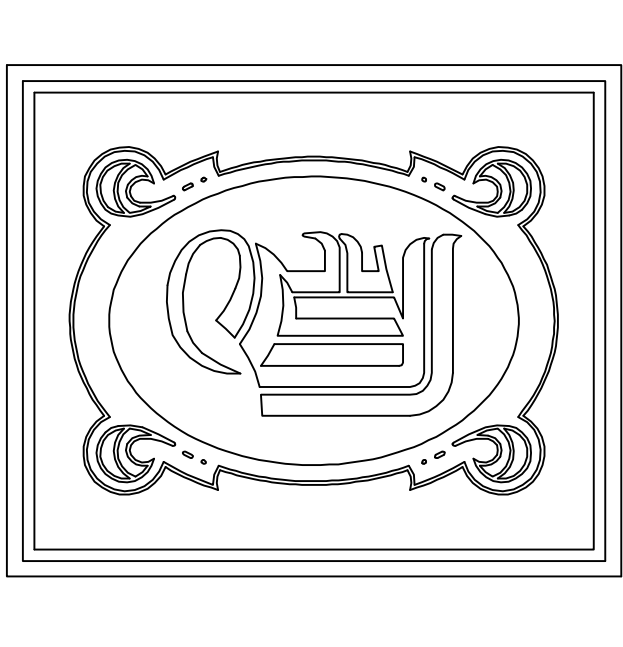


**LEGEND**

- EXISTING TOPO
- DETECTABLE WARNING SYSTEM (CAST IN PLACE)
- NEW #4 SIDEWALK



MATCH LINE - SEE SHEET C-4



**DAMMON ENGINEERING, INC.**

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CITY OF SLIDELL  
 LOUISIANA

CDBG  
 SIDEWALK  
 IMPROVEMENTS  
 FY 11

WASHINGTON AVE

REV:  
 SCALE: AS NOTED  
 JOB#: 2129  
 DATE: 03-28-12  
 SHEET 4

C-3  
 OF 4