

BID SET - NOT FOR CONSTRUCTION
SITE DEVELOPMENT PLANS
 OF
184 BLUFFTON

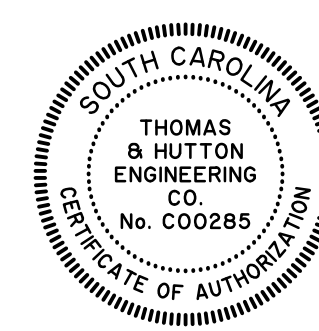
BLUFFTON, SOUTH CAROLINA

PREPARED FOR:
TOWN OF BLUFFTON
 20 BRIDGE STREET
 BLUFFTON, SC 29910

TM# R610-039-000-049B-0000

NOVEMBER 1, 2018
 LATEST REVISION: 01/29/2019
 J-26436.2000

PREPARED BY:



VICINITY MAP
 SCALE: 1" = 2000'

J-26436.2000
 01/29/2019

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REVISION HISTORY

REV. NO.	REVISION	BY	DATE

SUBMITTAL HISTORY

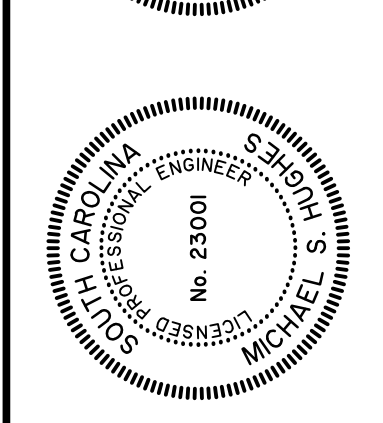
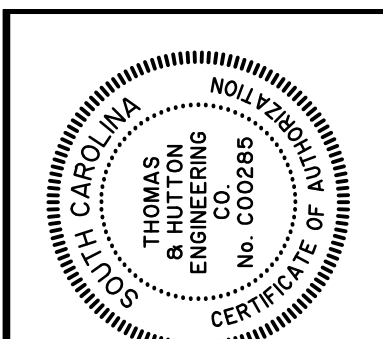
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TOWN OF BLUFFTON
 BLUFFTON, SOUTH CAROLINA
 184 BLUFFTON
EXISTING CONDITIONS - DEMOLITION PLAN

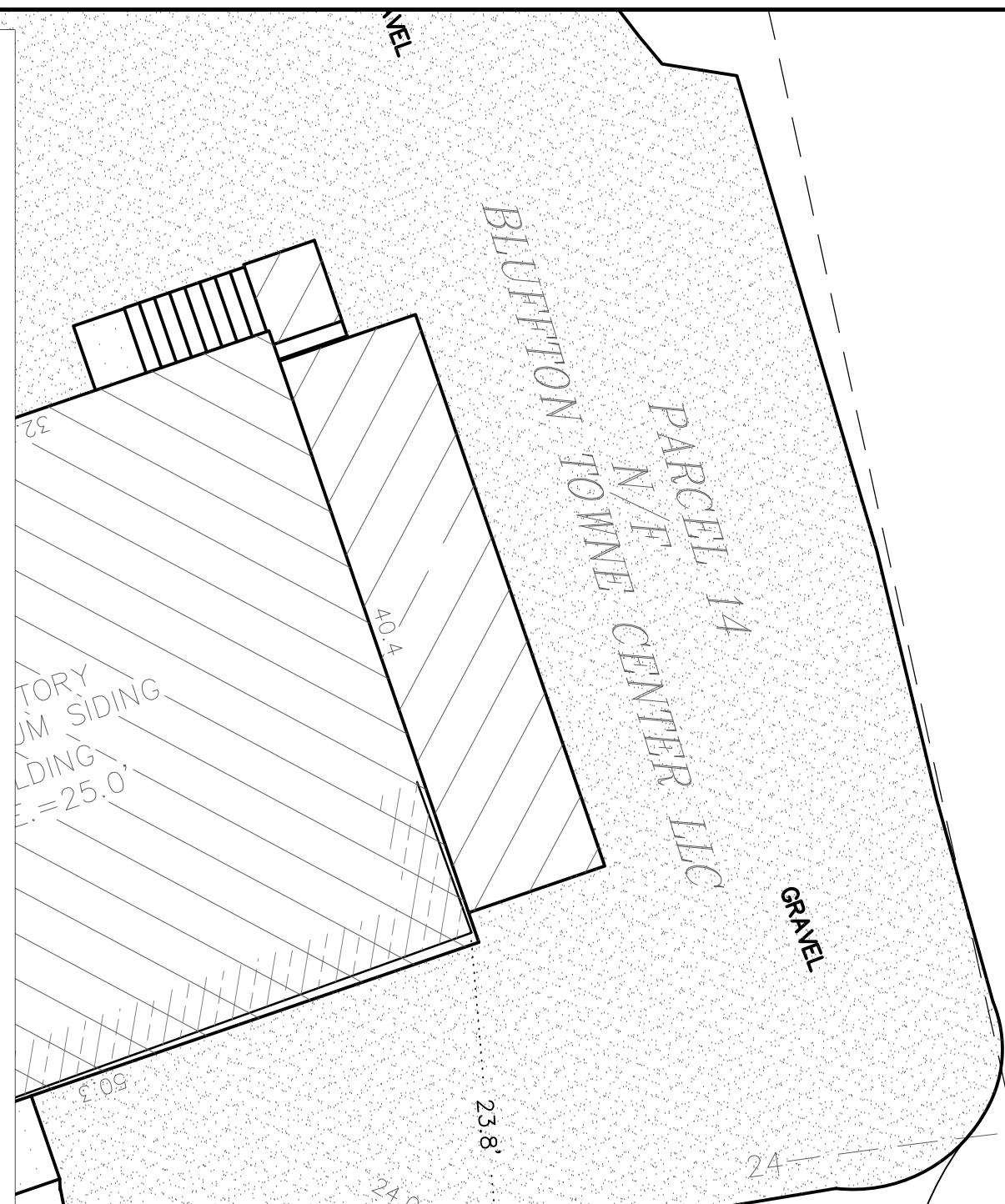
JOB NO: J-26436.2000
 DATE: 11/01/18
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 APPROVED:
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EX1.1

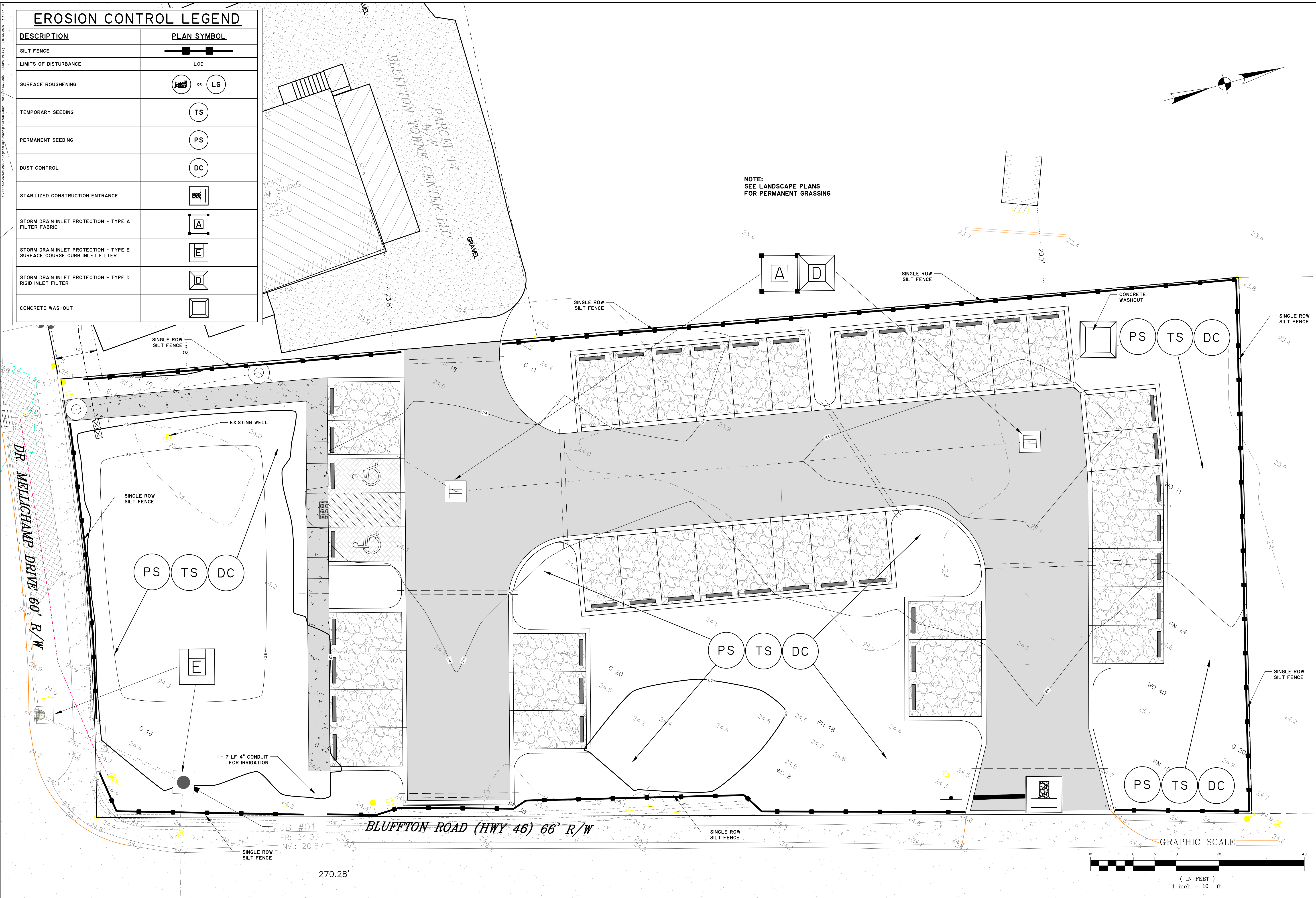
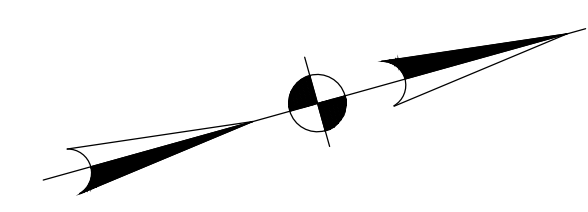
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EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
SILT FENCE	
LIMITS OF DISTURBANCE	LOD
SURFACE ROUGHENING	or LG
TEMPORARY SEEDING	TS
PERMANENT SEEDING	PS
DUST CONTROL	DC
STABILIZED CONSTRUCTION ENTRANCE	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	
STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER	
STORM DRAIN INLET PROTECTION - TYPE D RIGID INLET FILTER	
CONCRETE WASHOUT	

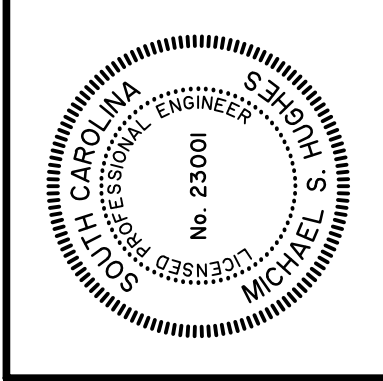
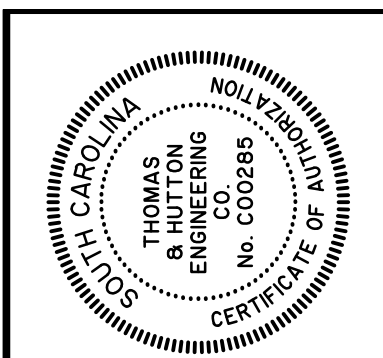
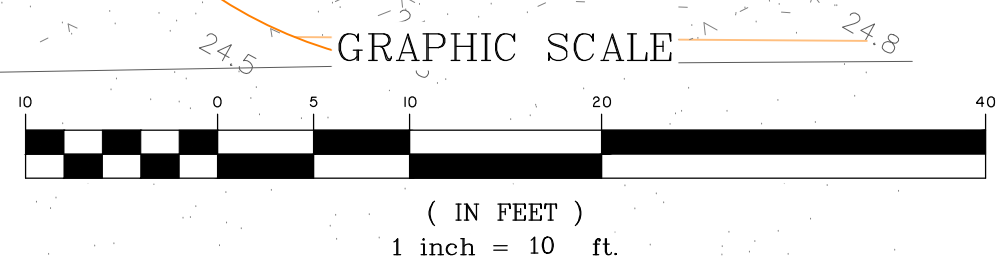


NOTE:
SEE LANDSCAPE PLANS
FOR PERMANENT GRASSING



JB #01
FR: 24.03
INV.: 20.87

270.28'



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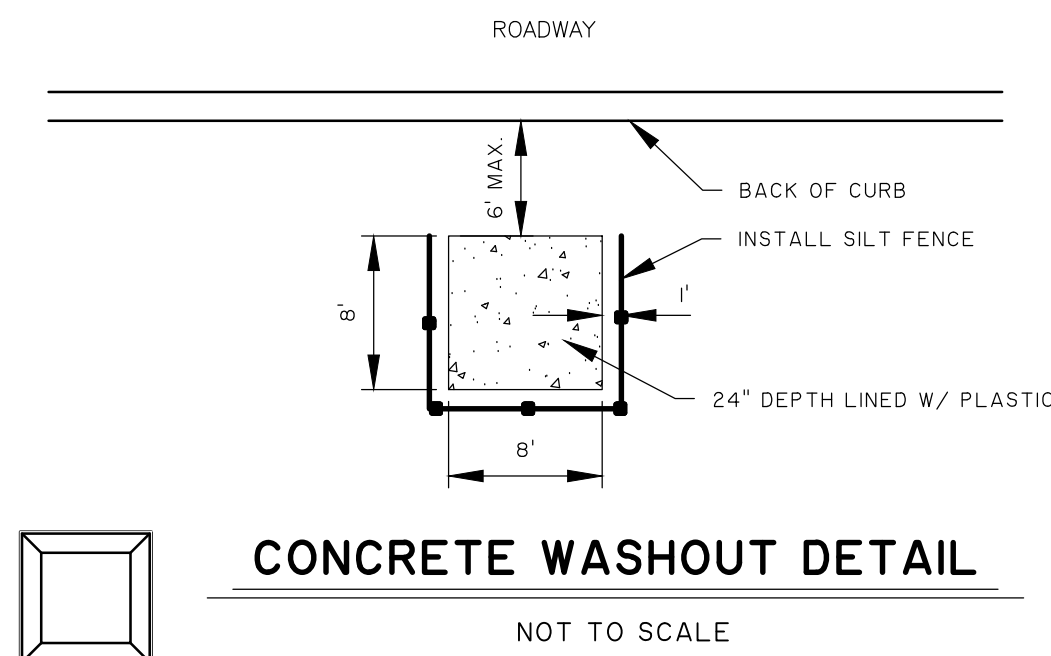
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TOWN OF BLUFFTON
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 EC&PC PLAN

JOB NO:	J-26436.2000
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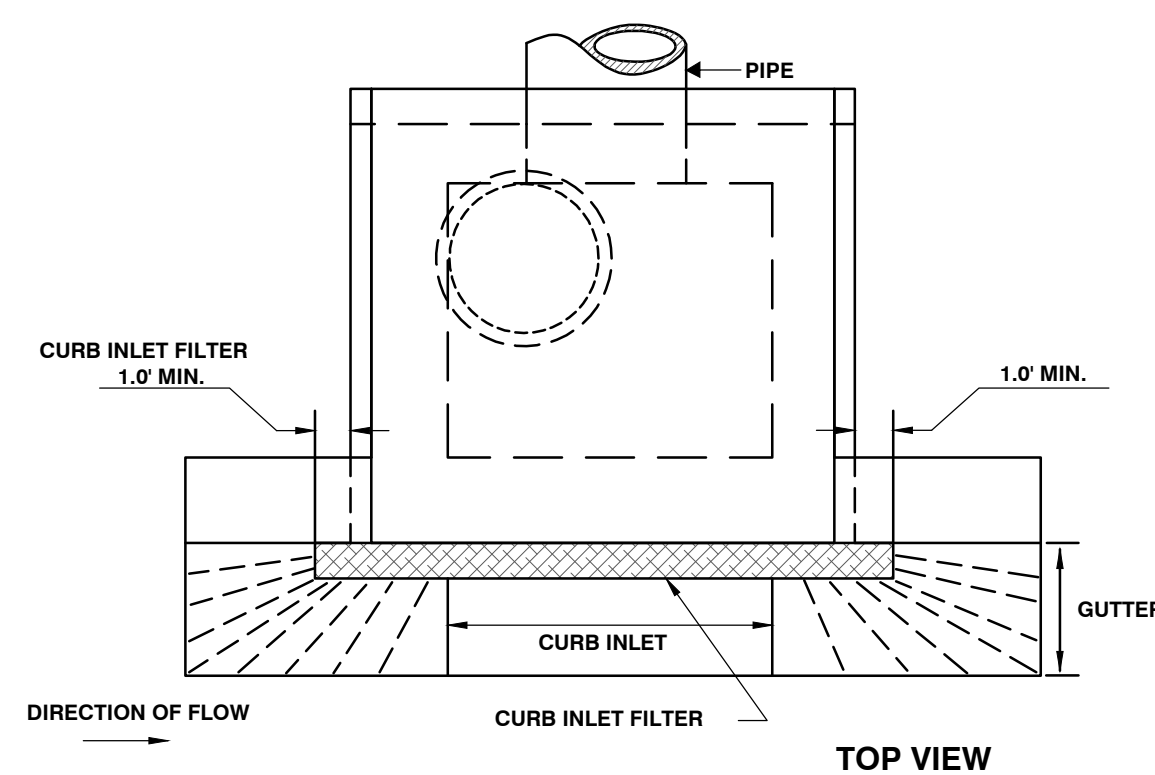
EC2.1

BID SET - NOT FOR CONSTRUCTION



CONCRETE WASHOUT DETAIL

NOT TO SCALE



TOP VIEW

GENERAL NOTES:

USE ONLY SURFACE CURB INLET FILTERS THAT HAVE A MINIMUM HEIGHT OR DIAMETER OF 8-INCHES AND HAVE A MINIMUM LENGTH THAT IS 2-FEET LONGER THAN THE LENGTH OF THE CURB OPENING.

SURFACE COURSE INLET FILTERS THAT ARE DESIGNED TO COMPLETELY BLOCK THE INLET OPENING ARE PROHIBITED. ACCEPTABLE INLET FILTERS SHOULD ALLOW FOR OVERFLOWS TO ENTER THE CATCH BASIN.

SURFACE COURSE INLET FILTERS SHOULD BE CONSTRUCTED WITH A SYNTHETIC MATERIAL THAT WILL ALLOW STORMWATER TO FREELY FLOW THROUGH WHILE TRAPPING SEDIMENT AND DEBRIS.

STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES AND LEAF MULCH ARE NOT PERMISSIBLE FOR FILTER MATERIALS.

EACH FILTER SHOULD HAVE AGGREGATE COMPARTMENTS FOR STONE, SAND, AND OTHER WEIGHTED MATERIALS OR MECHANISMS TO HOLD THE UNIT IN PLACE. FILL AGGREGATE COMPARTMENTS TO A LEVEL (AT LEAST 1/2 FULL) TO HOLD THE FILTER IN PLACE AND CREATE A SEAL BETWEEN THE FILTER AND THE ROAD SURFACE.

USE ONLY TYPE E INLET FILTERS APPEARING ON SC DOT'S QUALIFIED PRODUCTS LIST (QLP), APPROVAL SHEET #58, OR FILTERS MEETING THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

INSPECTION AND MAINTENANCE:
THE KEY TO FUNCTIONAL INLET PROTECTION IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

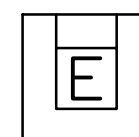
REGULAR INSPECTIONS OF ALL INLET PROTECTION SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.

ATTENTION TO SEDIMENT ACCUMULATIONS IN FRONT OF THE INLET PROTECTION IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.

REMOVE ACCUMULATED SEDIMENT WHEN SILT AND/OR DEBRIS HAS BUILT UP AROUND THE FILTER PREVENTING STORMWATER TO FLOW THROUGH THE FILTER.

REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.

INLET PROTECTION STRUCTURES SHOULD BE REMOVED AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. STABILIZE ALL BARE AREAS IMMEDIATELY.



SURFACE COURSE CURB INLET FILTERS (TYPE E)

NOT TO SCALE

WHEN AND WHERE TO USE IT:
SILT FENCE IS APPLICABLE IN AREAS:

WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100-FEET, WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL, [PERPENDICULAR] TO FENCE LINE) IS 2H:1V, THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.

DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

MATERIALS:

STEEL POSTS
USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:
COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.
HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.
WEIGH 1.25 POUNDS PER FOOT (± 8%).
HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS.
PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

USE STEEL POSTS WITH A MINIMUM LENGTH OF 4-FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW THE GROUND LEVEL FOR ADDED STABILITY.
THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS:
BE COMPOSED OF MINIMUM 15 GAUGE STEEL.
HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.

GEOTEXTILE FILTER FABRIC:

FILTER FABRIC IS:
COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES.
FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES.
CUT TO A MINIMUM WIDTH OF 36 INCHES.

USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

INSTALLATION:
EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH USING A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE

INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3- FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6- FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE

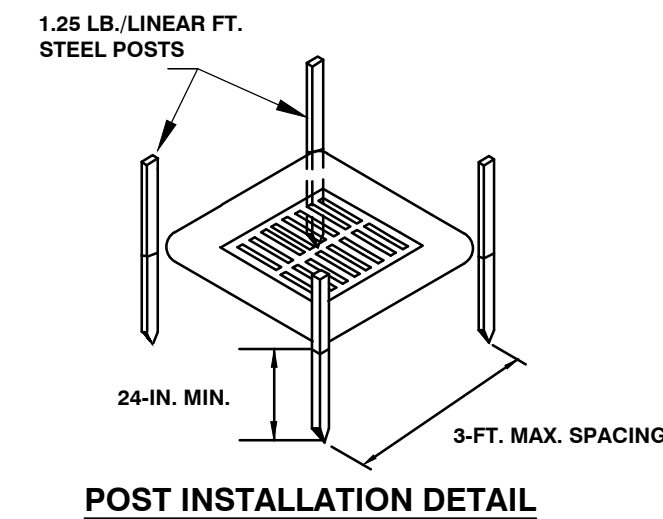
TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4-, 5-, OR 6- FEET TALL.

CLEANOUT:

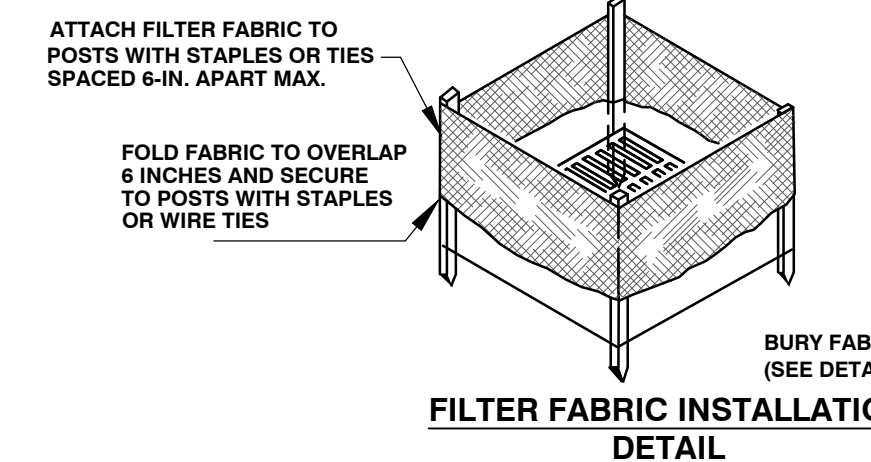
INSPECTION AND MAINTENANCE:
CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) ARE NO LONGER NEEDED. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.

SILT FENCE

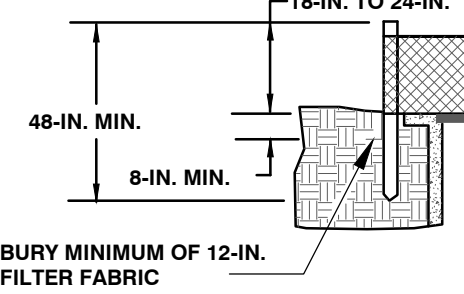
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POST INSTALLATION DETAIL



FILTER FABRIC INSTALLATION DETAIL



FILTER FABRIC BURIAL DETAIL

MATERIALS:

USE FILTER FABRIC THAT CONFORMS TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

USE STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:
BE COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI.
HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.
WEIGH 1.25 POUNDS PER FOOT (± 8%).
BE PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

INSTALLATION:

EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED. EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 60-INCHES CONSISTING OF STANDARD "T" SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (± 8%). INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE STEEL POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3- FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.

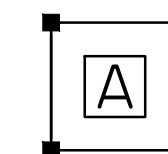
ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES.

ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

INSPECTION AND MAINTENANCE:

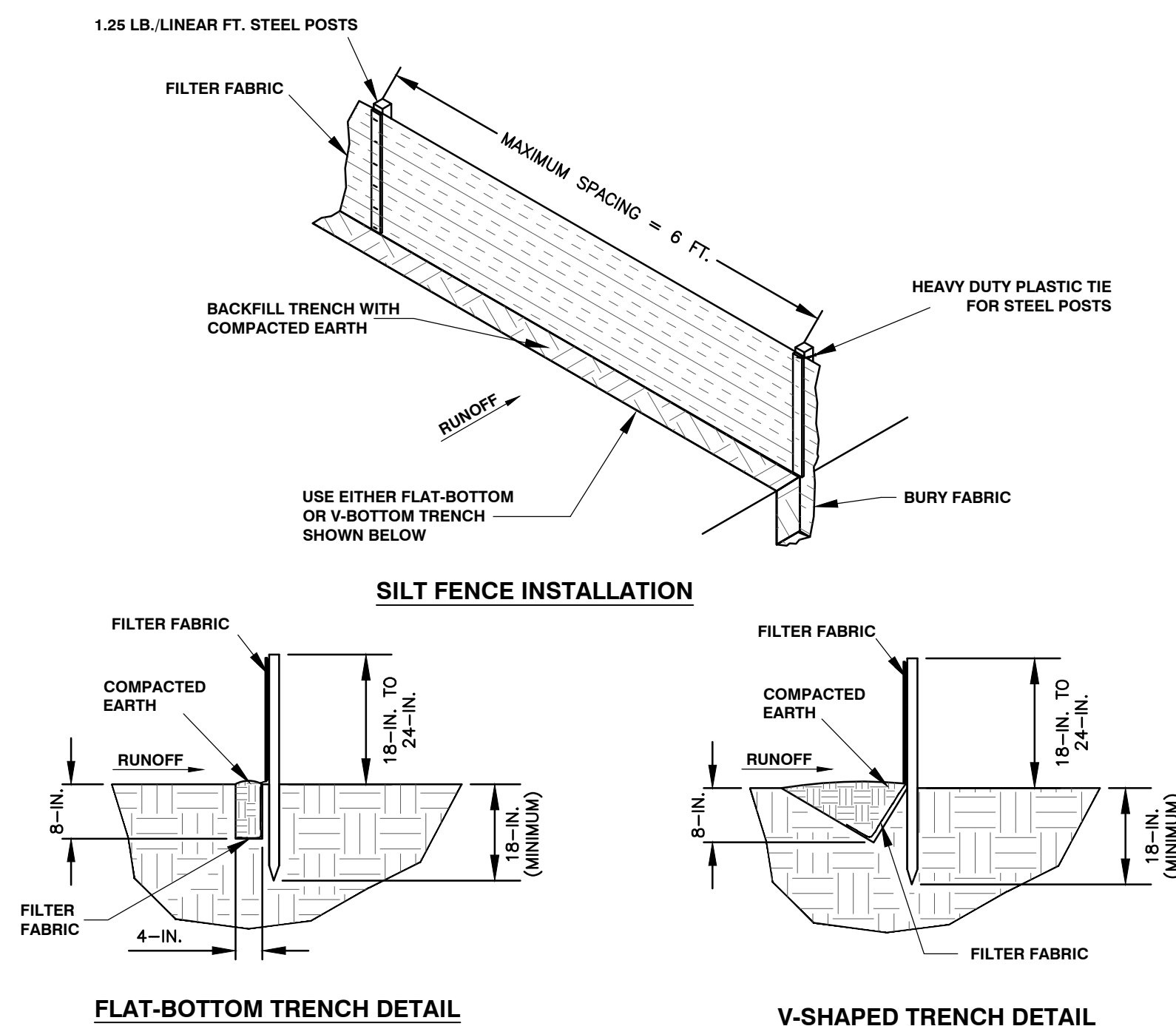
SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. USE APPROPRIATE STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.



FILTER FABRIC INLET PROTECTION (TYPE A)

NOT TO SCALE



FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

MATERIALS:

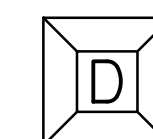
- RIGID INLET FILTERS EXHIBIT THE FOLLOWING PROPERTIES:
- COMPOSED OF A GEOTEXTILE FABRIC CONNECTED TO A RIGID STRUCTURE. THE GEOTEXTILE FABRIC IS NONBIODEGRADABLE AND RESISTANT TO DEGRADATION BY ULTRAVIOLET EXPOSURE AND RESISTANT TO CONTAMINANTS COMMONLY ENCOUNTERED IN STORM WATER.
 - USE A RIGID STRUCTURE COMPOSED OF HIGH MOLECULAR WEIGHT, HIGH-DENSITY POLYETHYLENE COPOLYMER WITH A UV INHIBITOR. DO NOT USE STRUCTURES THAT ARE NOT REUSABLE AND RECYCLABLE.
 - USE A FILTER FABRIC CONSTRUCTED OF 100% CONTINUOUS POLYESTER NON-WOVEN ENGINEERING FABRIC. THE FILTER FABRIC IS FABRICATED TO PROVIDE A DIRECT FIT ADJACENT TO THE ASSOCIATED RIGID STRUCTURE.
 - RIGID INLET FILTERS HAVE A TWO-STAGE DESIGN. THE FIRST STAGE CONVEYS NORMAL FLOWS AT A MINIMUM CLEAN WATER FLOW RATE OF 100 GALLONS PER MINUTE PER SQUARE FOOT. THE SECOND STAGE CONVEYS HIGH FLOW RATES, WITH A MINIMUM APPARENT OPENING OF 0.5-INCH PER SQUARE INCH (NO. 12 STANDARD SIEVE OPENING).
 - TYPE D1 INLET FILTERS HAVE A FIRST STAGE MINIMUM HEIGHT OF 9-INCHES AND A MAXIMUM HEIGHT OF 12 INCHES IN ORDER TO ALLOW GREATER OVERFLOW CAPACITY AND PREVENT PONDING IN THE MEDIAN.
 - RIGID INLET FILTERS COMPLETELY SURROUND THE INLET.
 - RIGID INLET FILTERS HAVE LIFTING DEVICES OR STRUCTURES TO ASSIST IN THE INSTALLATION AND TO ALLOW INSPECTION OF THE STORM WATER SYSTEM.
 - THE FILTER FABRIC IS CAPABLE OF REDUCING EFFLUENT SEDIMENT CONCENTRATIONS BY NO LESS THAN 80% UNDER TYPICAL SEDIMENT MIGRATION CONDITIONS.
 - SELECT APPLICABLE TYPE D INLET FILTERS FROM THE SCDOT APPROVED PRODUCTS LIST.

INSTALLATION:

- INSTALL RIGID INLET FILTERS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. PROPERLY INSTALL RIGID INLET PROTECTION SO THE INLET IS COMPLETELY ENCLOSED.

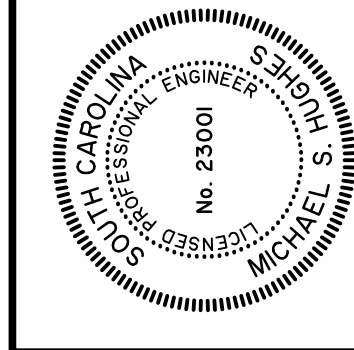
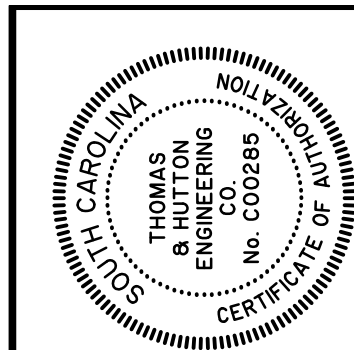
INSPECTION AND MAINTENANCE:

- INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/4-INCHES OR MORE OF RAIN. ANY NEEDED REPAIRS SHOULD BE HANDLED IMMEDIATELY.
- INSPECT AFTER INSTALLATION TO INSURE THAT NO GAPS EXIST THAT MAY PERMIT SEDIMENT TO ENTER THE STORM DRAIN SYSTEM.
- REMOVE AND/OR REPLACE RIGID INLET FILTERS TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS.
- CLEAN THE RIGID INLET PROTECTION FILTER MATERIAL WHEN IT BECOMES COVERED OR CLOGGED WITH DEPOSITED SEDIMENT.
- REPLACE THE RIGID INLET PROTECTION FILTER MATERIAL AS DIRECTED BY THE ENGINEER.



TYPE D - RIGID INLET FILTERS

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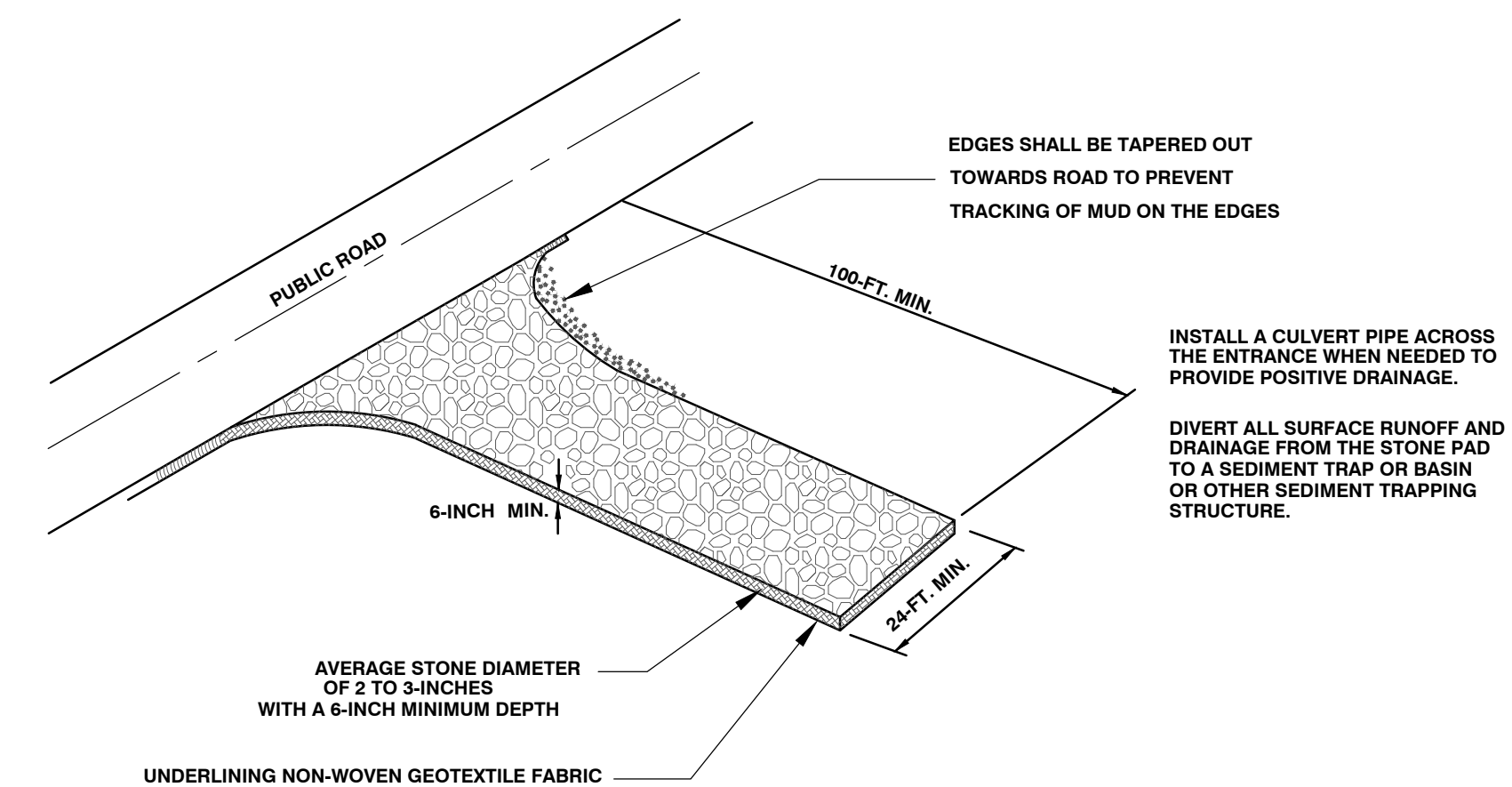
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EC3.1

BID SET - NOT FOR CONSTRUCTION

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WHEN AND WHERE TO USE IT:
STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

IMPORTANT CONSIDERATIONS:
IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDHEC AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN.

CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

INSTALLATION:
REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
DIVERTE ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.
INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.
INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
THE ENTRANCE SHALL CONSIST OF 1-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.
MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FEET WIDE BY 100-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:
CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

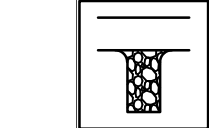
WASH OR REPLACE STONES AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES.

FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.

IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



DC DUST CONTROL ON DISTURBED AREAS

DEFINITION
Controlling surface and air movement of dust on land-disturbing activities.



PURPOSE
• Prevent the movement of dust from exposed soil surfaces.
• Prevent the movement of airborne substances that may be harmful to health.

INSTALLATION
• Apply according to approved plan, if shown.
• Mutch disturbed areas and tackify with resins such as asphalt, Curasol or Terratack according to manufacturer's recommendations.
• Stabilize disturbed areas with temporary or permanent vegetation.
• Irrigate disturbed areas until surface is wet.
• Cover surfaces with crushed stone or gravel.

DC

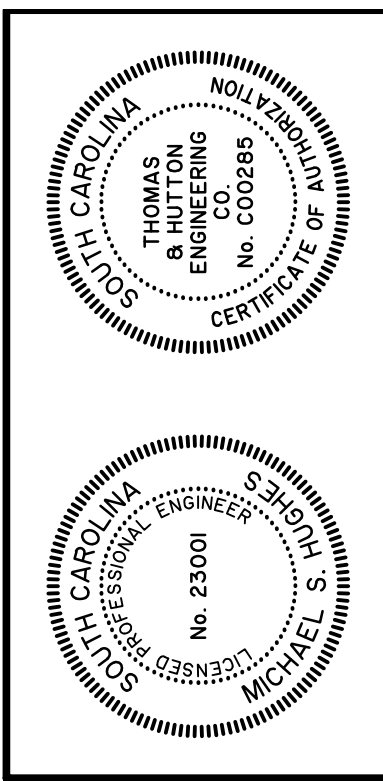
- Apply calcium chloride at a rate to keep surfaces moist.
- Apply spray-on adhesives to mineral soils (not muck soils) as described in Table 1.

Table 1. Spray-On Adhesive Application Requirements

Adhesive	Water Dilution	Nozzle Type	Application (Gal./Acre)
Anionic asphalt emulsion	7:1*	Coarse spray	1,200
Latex emulsion	12.5:1 *	Fine spray	235
Resin-in-water emulsion	4:1*	Fine spray	300

*Use manufacturer's recommendations when available.

DUST CONTROL MEASURES
NOT TO SCALE



NO.	REVISIONS	BY	DATE

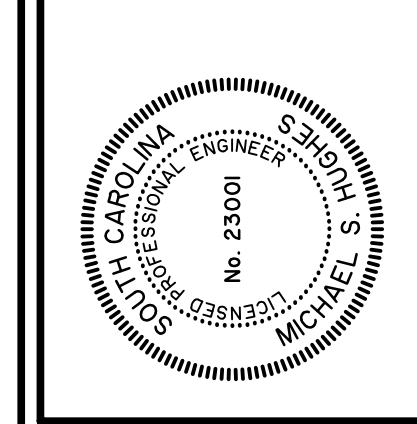
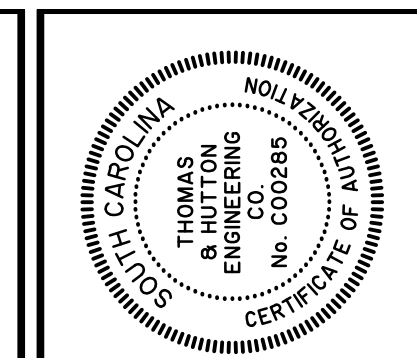
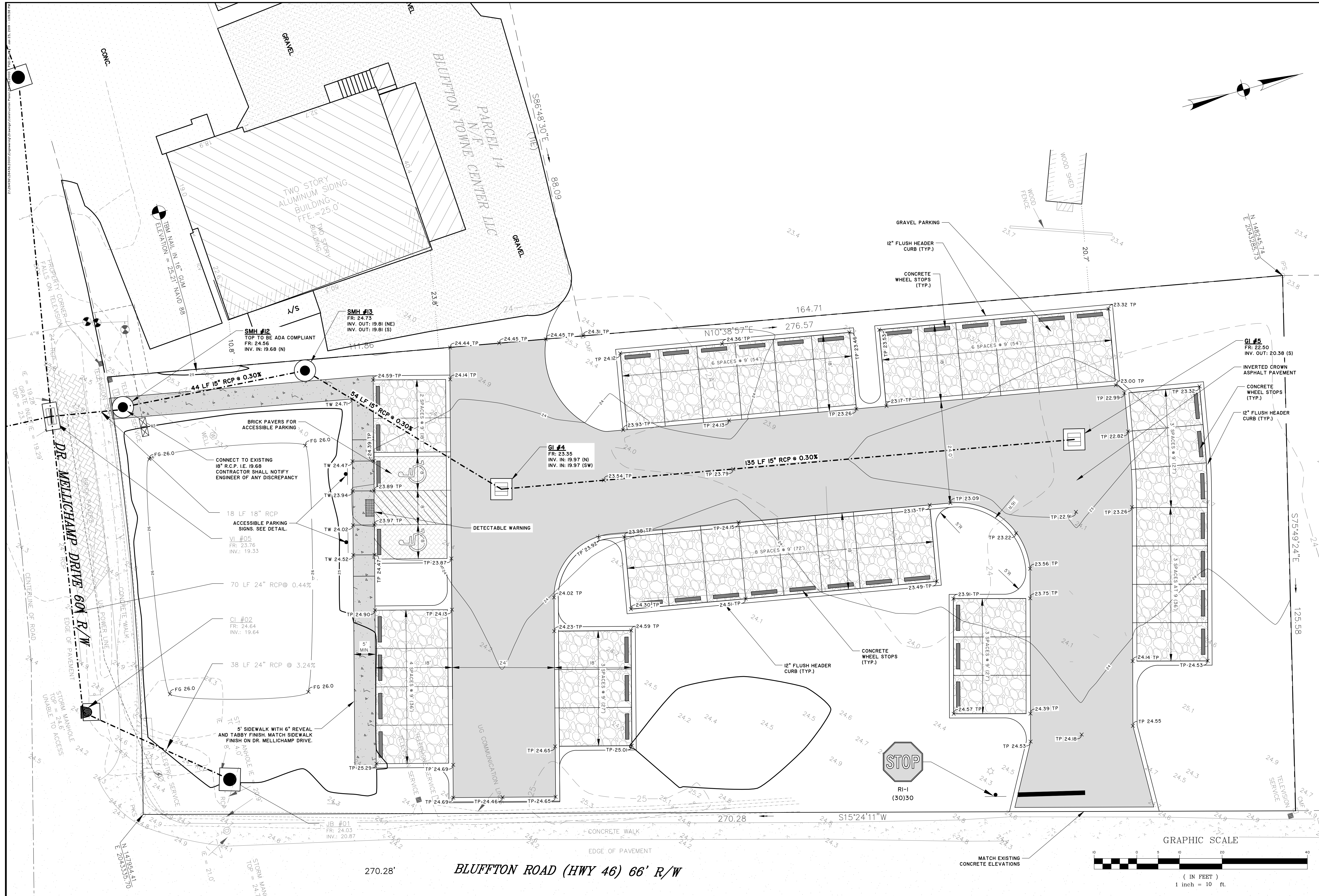
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TOWN OF BLUFFTON
BLUFFTON, SOUTH CAROLINA
184 BLUFFTON
EC & PC DETAILS

JOB NO:	J-26436.2000
DATE:	11/01/18
DRAWN:	TMV
DESIGNED:	TMV
REVIEWED:	JPM
APPROVED:	MSH
SCALE:	1" = 1'

EC3.2

BID SET - NOT FOR CONSTRUCTION



NO.	REVISIONS	BY	DATE

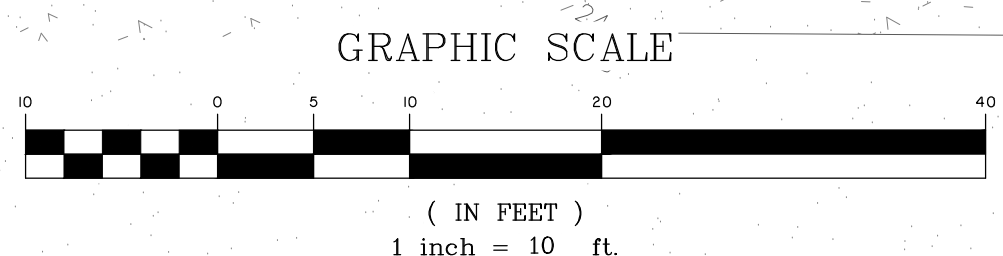
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 BLUFFTON, SOUTH CAROLINA
 184 BLUFFTON
PAVING GRADING AND DRAINAGE PLAN

JOB NO:	J-26436.2000
DATE:	11/01/18
DRAWN:	
DESIGNED:	
APPROVED:	
SCALE:	1" = 10'

C1.1

BID SET - NOT FOR CONSTRUCTION



270.28' **BLUFFTON ROAD (HWY 46) 66' R/W**

REFERENCES

NATIONAL BUREAU OF STANDARDS
ASTM C 55, ASTM A 106, ASTM M 105, ASTM M 108

SCDOT DOCUMENTS
QUALIFIED PRODUCT LIST 13,
QUALIFIED PRODUCT LIST 14,
QUALIFIED PRODUCT LIST 15

RELATED DRAWINGS & KEYWORDS
719-105-01 TO 719-105-02, 719-110-01,
719-305-00, 719-310-00, 719-305-00,
719-305-00, 719-310-00

PRECONSTRUCTION SUPPORT ENGINEER



DATE: MARCH 3, 2008

#	DATE	DESCRIPTION
0	3/2008	ISSUED FOR CONSTRUCTION
1		
2		
3		
4		
5		
6		



STANDARD DRAWING

DROP INLET (24" X 24") DETAILS

719-105-01
EFFECTIVE LITING DATE: MAY 2009

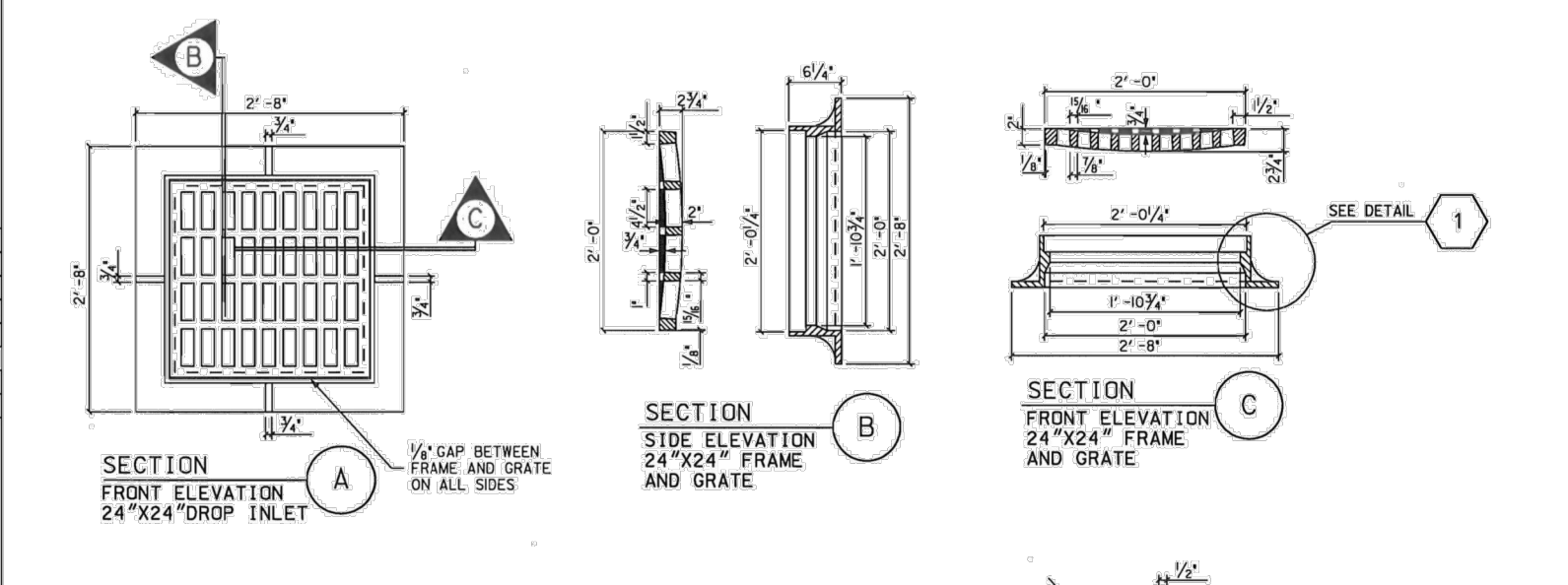
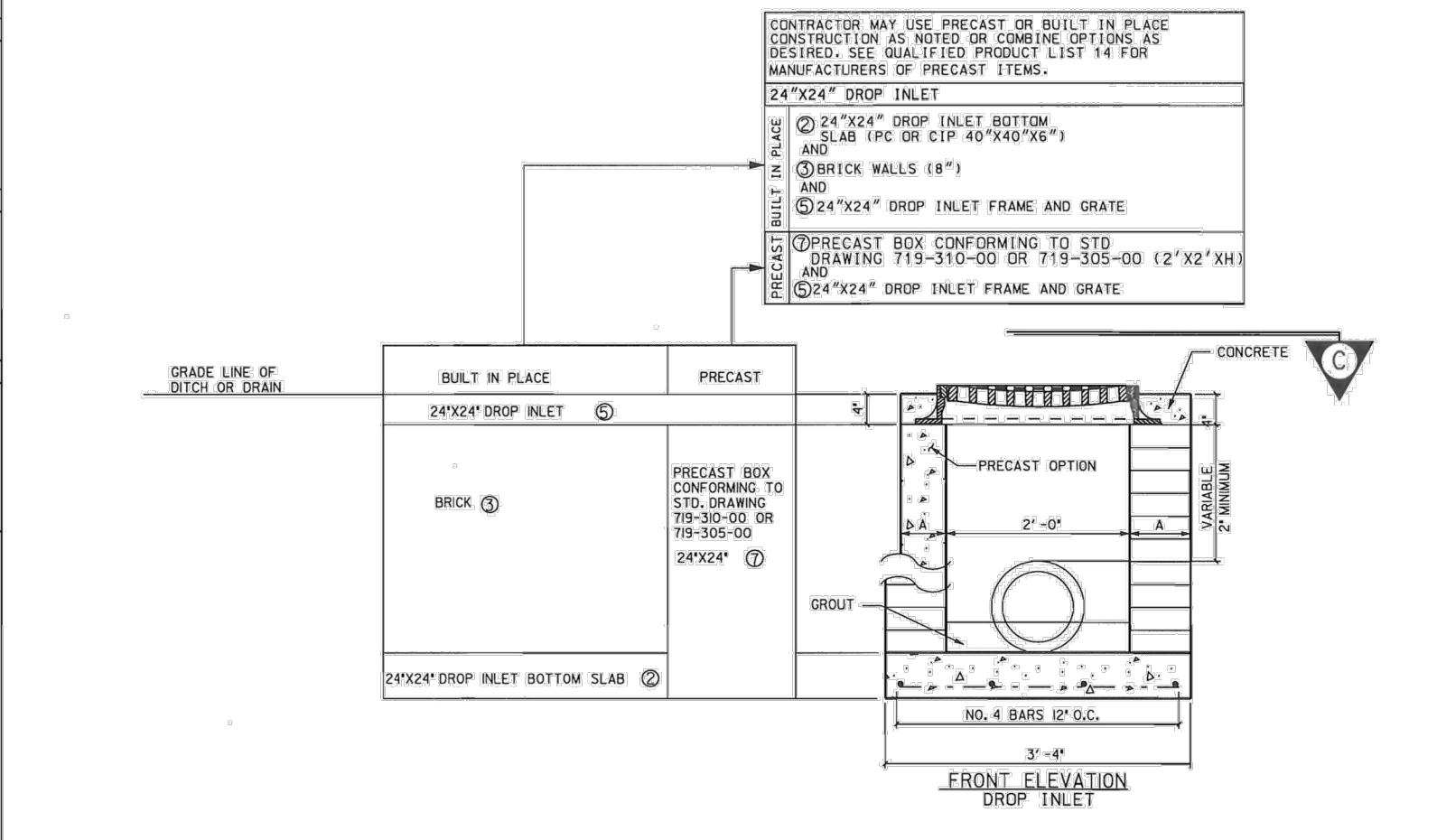


TABLE 719-105B
STANDARD PC ITEMS FOR DROP INLET

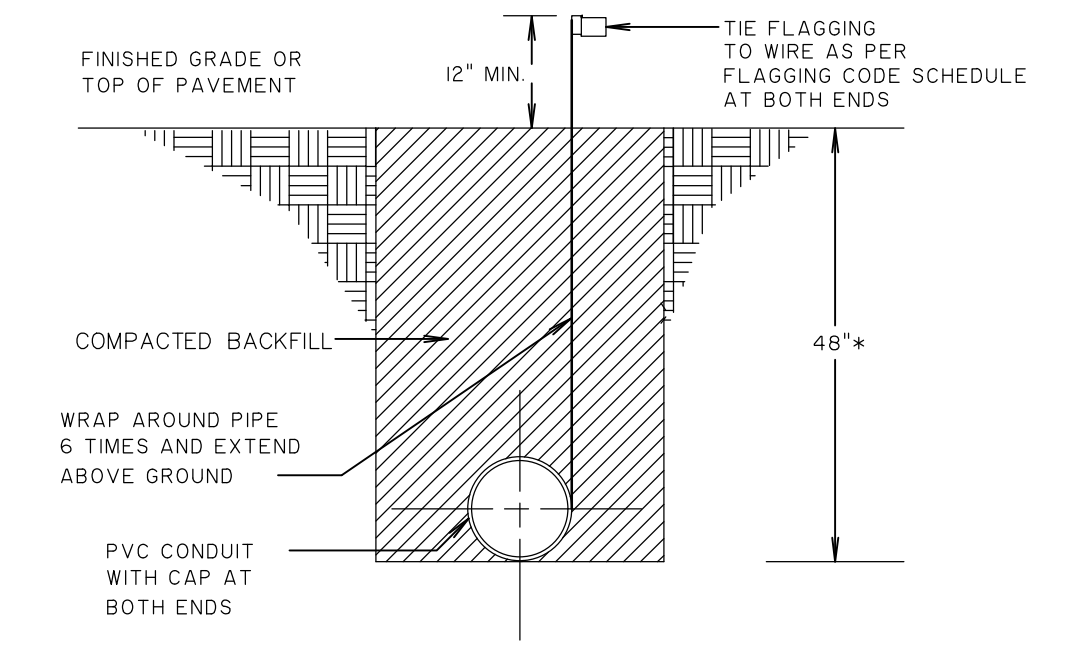
ITEM	DESCRIPTION
1	(24" X 24") DROP INLET BOTTOM SLAB (PC OR CIP 40" X 40" X 6")
2	SEE ALSO STD. DRAWING 719-310-00 OR 719-305-00

TABLE 719-105A
24" X 24" DROP INLET

DIMENSION	BUILT IN PLACE OPTION	PRECAST
A	6"	SEE STD. DRAWING 719-305-00 AND 719-310-00 (2' X 2' X 1) PRECAST BOX
B	24"	SEE STD. DRAWING 719-305-00 AND 719-310-00 (2' X 2' X 1) PRECAST BOX
C	3'-4"	SEE STD. DRAWING 719-305-00 AND 719-310-00 (2' X 2' X 1) PRECAST BOX

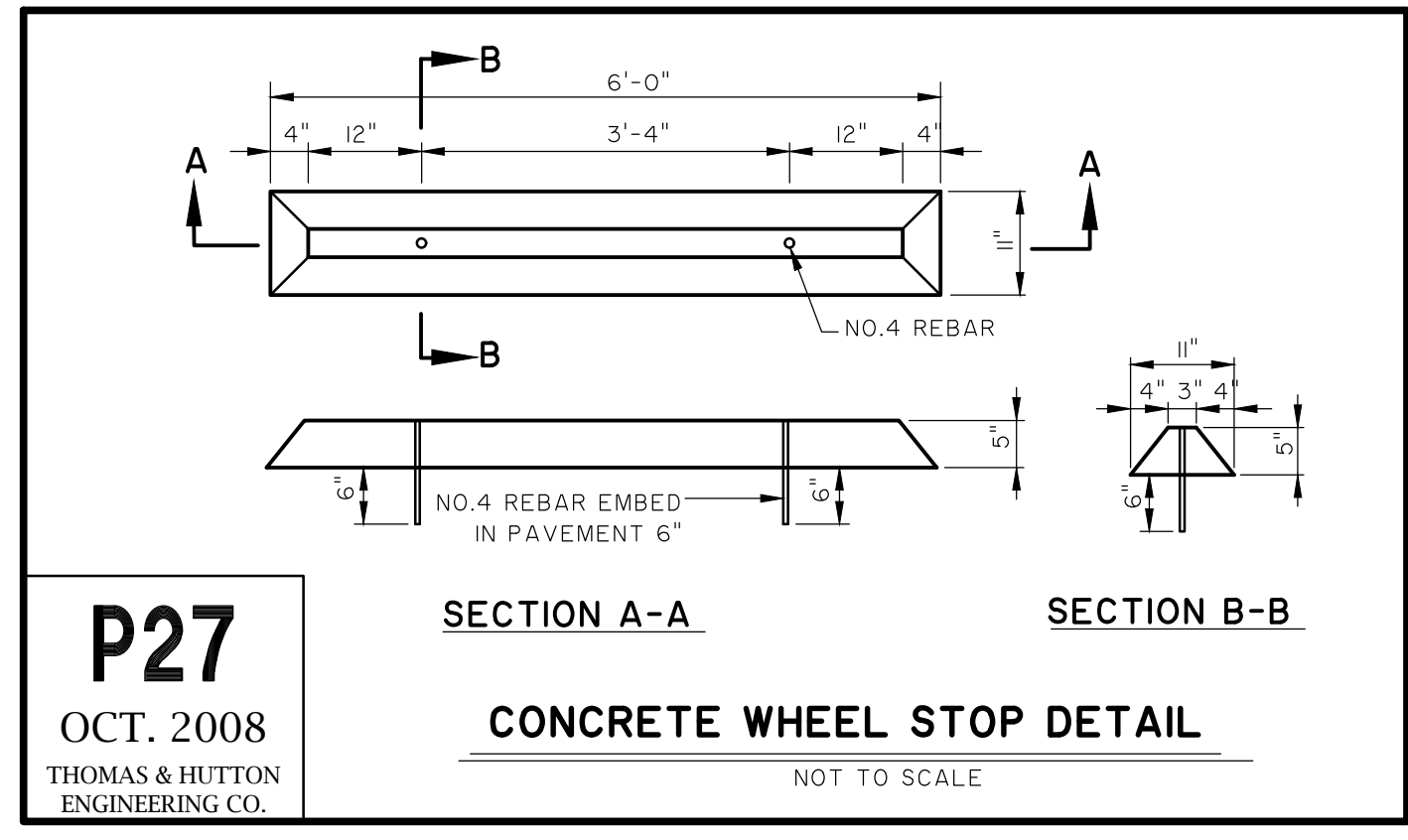
NOTES:

- 719-110-01 FOR DROP INLET (24" X 24"). FOR BUILT IN PLACE CONSTRUCTION OF THE CATCH BASIN WALLS, EITHER BRICK MASONRY WALLS (ONLY) OR CIP CLASS 3000 CONCRETE MAY BE USED. FOR PRECAST CONSTRUCTION, A MINIMUM OF CLASS 4000 CONCRETE SHALL BE USED.
- CONCRETE WALLS ARE TO BE 6" THICK WITH A MINIMUM REINFORCING STEEL AREA OF 0.20 SQUARE INCHES PER FOOT UNLESS NOTED. FOR BRICK, THE WALLS ARE TO BE 8" THICK CONCRETE BRICK AND SIMILAR SOLID UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 55, GRADE S-11. THE INTERIOR DIMENSIONS ARE TO REMAIN AS SHOWN FOR EITHER TYPE OF CONSTRUCTION.
- THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6" THICK REINFORCED CONCRETE (CLASS 3000) WITH A REINFORCING STEEL AREA OF 0.20 SQUARE INCHES PER FOOT. WIRE MESH SHALL BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQUARE INCHES PER FOOT IS MET.
- MORTAR SHALL BE TYPE S OR M.
- REINFORCING STEEL SHALL BE ASTM A-306, LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60. WIRE MESH SHALL CONFORM TO ASTM M 55 AND M 56.
- SEE STANDARD DRAWING 719-550-00 FOR STEPS, WHICH ARE REQUIRED WHEN STRUCTURE DEPTH EXCEEDS 4'-6".
- SEE STANDARD DRAWINGS 719-420-00 AND 719-425-00 FOR DEPTHS GREATER THAN 12". PRECAST CONCRETE CIRCULAR DRAINAGE STRUCTURES ARE REQUIRED WHEN THE DEPTH FROM THE TOP OF THE DRAINAGE BOX BOTTOM SLAB TO THE TOP OF THE GROUND EXCEEDS 12'-0".
- LOCATION AND SIZE OF PIPES ARE SITE SPECIFIC. (SEE DRAINAGE PLANS). THE BOTTOM OF THE CATCH BASIN IS TO BE GRADED TO THE LOWEST FLOW LINE ELEVATION OF ALL PIPES. BOTTOM SLAB IS CAST IN PLACE WITH PIPES INSTALLED. BOTTOM SLAB THICKNESS MUST BE ACHIEVED BEYOND PIPE OUTSIDE DIAMETER.
- THE FLOOR OF THE BASIN MUST SLOPE IN THE DIRECTION OF THE OUTLET PIPE AS SHOWN AND THE INSIDE OF OUTLET PIPE SHALL BE FLUSH WITH FLOOR OF BASIN.
- ADDITIONAL MATERIALS ASSOCIATED WITH THE INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHOULD CONFIRM THAT PIPE USED FITS APPROPRIATELY INTO BOX.
- FRAME AND GRATE NOTES:
11. ALL CASTINGS SHALL CONFORM TO ASTM M 105, CLASS 358 AND THE SPECIFICATIONS OF ASTM M 306.
12. 1#3 STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LONG AS THE LOADING (UNITE 124) AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON THE DEPARTMENT'S LIST OF APPROVED SUPPLIERS.
13. STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM M 111.
14. STEEL GRATES AND FRAMES SHALL BE DIMENSIONED TO BE INTERCHANGEABLE WITH EACH PIECE OF THE CAST IRON GRATE AND FRAME SHOWN. STEEL GRATES MUST HAVE POSITIVE MEANS TO BE RETAINED IN THE FRAME.
15. STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET ASTM M 306.
16. MANUFACTURERS RESPONDING TO BE PLACED ON THE DEPARTMENT'S QUALIFIED PRODUCT LIST SHOULD CONTACT THE MATERIALS AND RESEARCH ENGINEER FOR PROCEDURES.
17. THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GRATE SHOULD BE ORIENTED IN THE DIRECTION OF FLOW, IF PRACTICABLE. THIS GRATE IS NOT SUITABLE FOR PEDESTRIAN TRAFFIC BECAUSE GRATE OPENINGS EXCEED 1/2".
18. AS SHOWN BY THIS DRAWING, THE FRAME IS SET LEVEL, BUT THE ENGINEER MAY SET SAME ON SLOPE AS REQUIRED BY LOCAL DRAINAGE CONDITIONS.
19. AFTER THE FRAME IS SET IN ITS FINAL POSITION, IT IS TO BE ENCASED WITH CONCRETE AS SHOWN BY DRAWING.
20. ALL MANUFACTURING PROCESSES FOR THE FRAME AND GRATE MUST OCCUR IN THE UNITED STATES.
21. PRECAST NOTES:
19. THE CONTRACTOR SHALL USE A SINGLE SOURCE MANUFACTURER CHOSEN FROM THE LIST ON QUALIFIED PRODUCT LIST 14 FOR PRECAST ITEMS ON THIS DRAWING.
20. FOLLOW QUALIFIED PRODUCT POLICY 14 IN ORDER TO BE LISTED ON QUALIFIED PRODUCT LIST 14.
21. CONTRACTOR MAY SUBMIT DESIGN DRAWINGS AND CALCULATIONS FOR MODIFICATIONS TO THIS ITEM ON A PROJECT BY PROJECT BASIS. MODIFICATIONS TO THESE ITEMS WILL NOT BE LISTED ON ANY QUALIFIED PRODUCT LIST. ALL REQUESTS FOR PROJECT SPECIFIC MODIFICATIONS TO THE RESIDENT ENGINEER REVIEW BY THE ENGINEER OF RECORD.
22. JOINTS BETWEEN INSTALLED PRECAST ITEMS TO BE PLACED SHALL BE SEALED WITH A 1/2" GROUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED GASKET (QUALIFIED PRODUCT LIST 13.)
23. PRECAST INSTALLATION NOTES:
24. PLACE AND LEVEL PRECAST BOX OR SLAB.
25. PIPES SHALL BE INSTALLED AND GROUTED IN PLACE.
26. PIPES AND BOX SHALL BE BACKFILLED AND COMPACTED AS REQUIRED BY SCDOT STANDARD SPECIFICATIONS.
27. ANY LOCATION WHERE THE ABOVE REQUIREMENTS CANNOT BE MET SHALL BE COMPLETED USING CAST IN PLACE MATERIALS MEETING THE REQUIREMENTS OF THIS STANDARD DRAWING. ANY ADDITIONAL MATERIALS OR COSTS ASSOCIATED WITH THE USE OF PRECAST SHALL BE PAID FOR BY THE CONTRACTOR AND MAY NOT BE CHARGED TO SCDOT.
28. THE CONTRACT UNIT PRICE FOR DROP INLETS SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS (BUILT IN PLACE OR PRECAST), AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS SHOWN, INCLUDING THE CURB AND GUTTER, IN ACCORDANCE WITH THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
29. PRECAST CONCRETE CIRCULAR STRUCTURES ARE REQUIRED FOR THE FOLLOWING APPLICATIONS UNLESS PROHIBITED BY THE PLANS OR SPECIAL PROVISIONS:
(a) ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO OR GREATER THAN 10 FEET.
(b) ON DRAINAGE STRUCTURES WHERE THE FLOW LINE ELEVATION OF THE INLET PIPE IS EQUAL TO OR HIGHER THAN THE INSIDE TOP (SOFFIT) OF THE OUTLET PIPE.
(c) AS REQUIRED BY THE PROJECT PLANS.
30. THE PAY ITEM SHALL BE: INLET (24" X 24").....EA



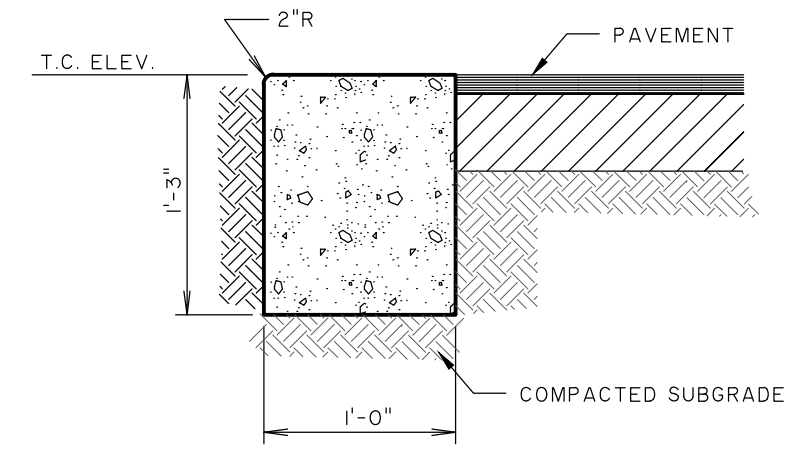
NOTES:
* REQUIRED DEPTH BASED ON UTILITY COMPANY PLANS AND SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO VERIFY DEPTH PRIOR TO INSTALLATION.

CONDUIT DETAIL
NOT TO SCALE



P27
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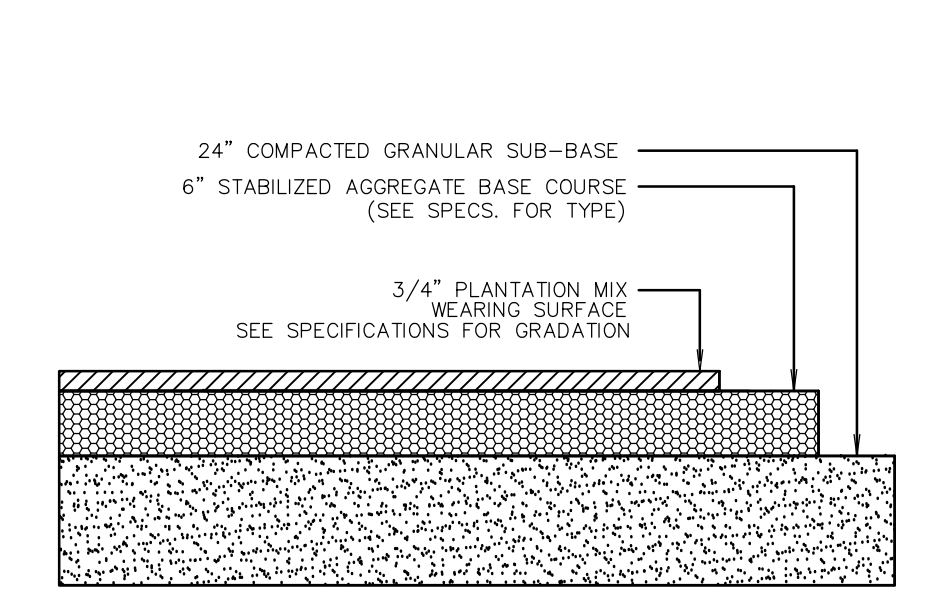
CONCRETE WHEEL STOP DETAIL
NOT TO SCALE



NOTES:

- ALL CONCRETE SHALL BE 3,000 PSI.
- PROVIDE CONTROL JOINTS EVERY TEN FEET (10').
- PROVIDE EXPANSION JOINTS EVERY FIFTY FEET (50').
- PROVIDE EXPANSION JOINT WHERE CURB ABUTS SIDEWALKS, OR OTHER STRUCTURES.
- PROVIDE LIGHT BROOM FINISH.

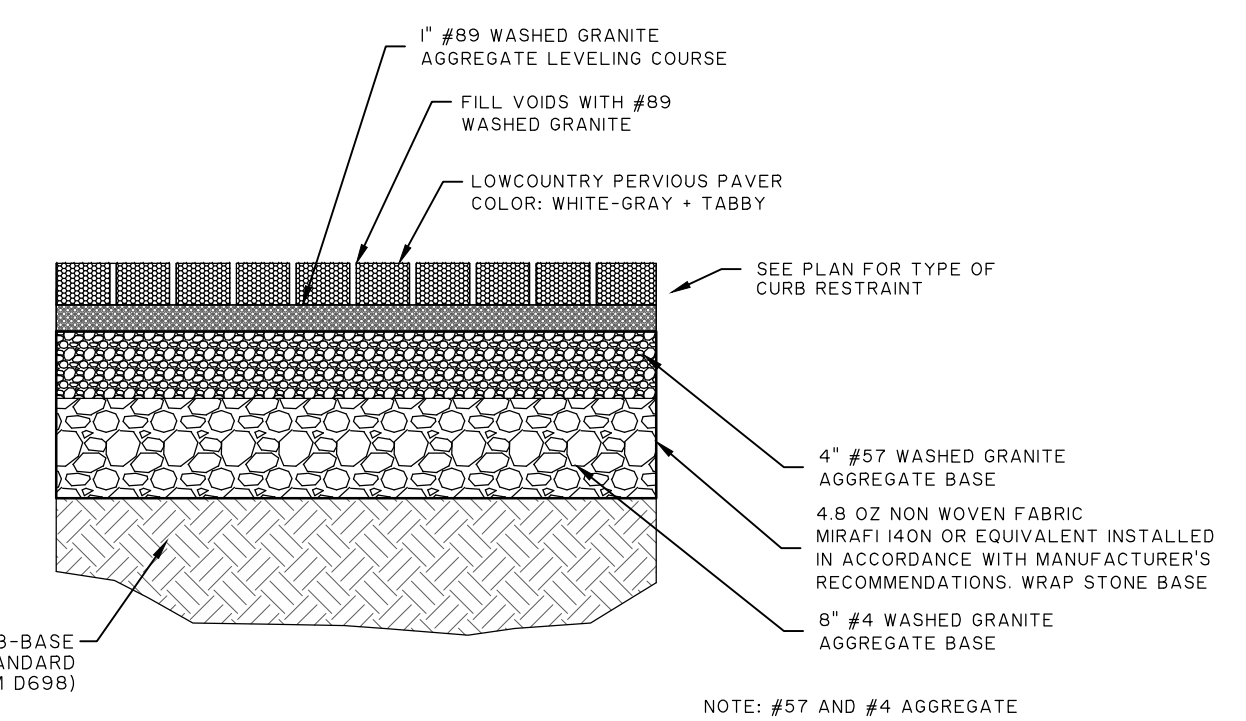
FLUSH HEADER CURB
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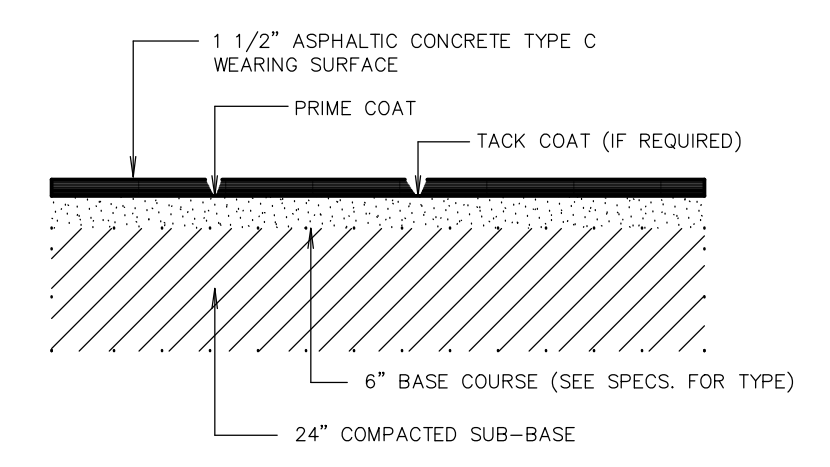
GRAVEL PAVEMENT SECTION
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PERVIOUS PARKING PAVEMENT SPECIFICATIONS

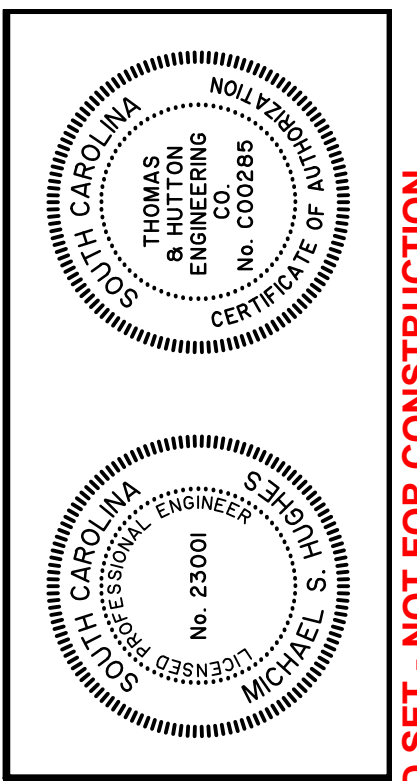
ADA PARKING AREAS	HYDRASHED PERMEABLE PAVEMENT, 80 MM, 3-7/8" X 7-13/16" X 3-1/8"
ALL OTHER PARKING AREAS	WATERSHED PERMEABLE PAVEMENT, 80 MM, 4-13/16" X 9-7/8" X 3-1/8"



PERVIOUS PARKING SECTION
NOT TO SCALE



PAVEMENT SECTION
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TOWN OF BLUFFTON
BLUFFTON, SOUTH CAROLINA

184 BLUFFTON

PAVING GRADING AND DRAINAGE DETAILS

JOB NO: J-26436.2000
DATE: 11/01/18
DRAWN: TMV
DESIGNED: TMV
REVIEWED: JPM
APPROVED: MSH
SCALE: NTS

C1.2

BID SET - NOT FOR CONSTRUCTION

REFERENCES

NATIONAL DOCUMENTS
ASHTO M25

SCOT DOCUMENTS
QUALIFIED PRODUCT LIST 14

RELATED DRAWINGS & KEYWORDS
719-310-00, 719-305-00, 719-009-01 TO 719-009-05

PRECONSTRUCTION SUPPORT ENGINEER



Signature: *E. Earle*
DATE: MARCH 3, 2008

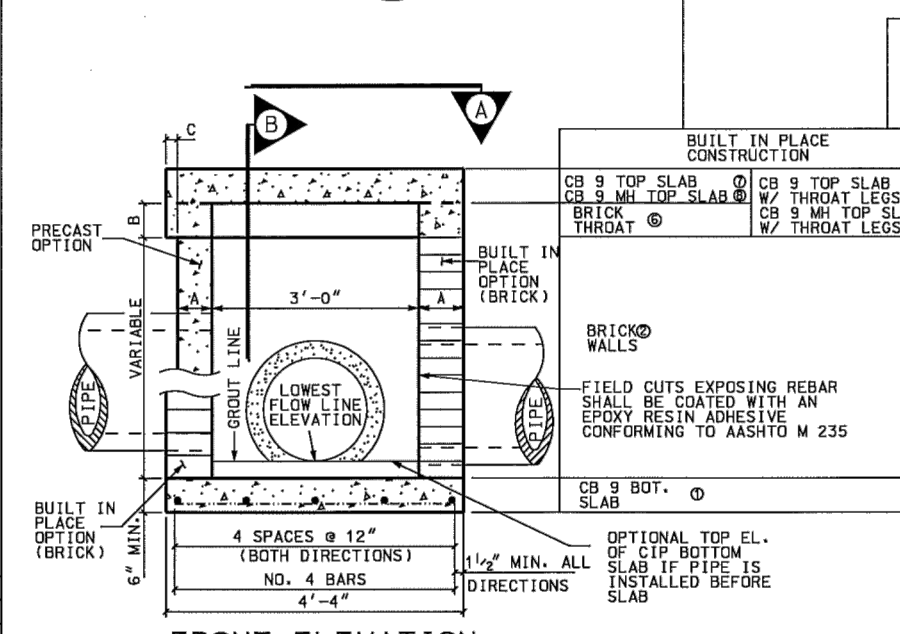
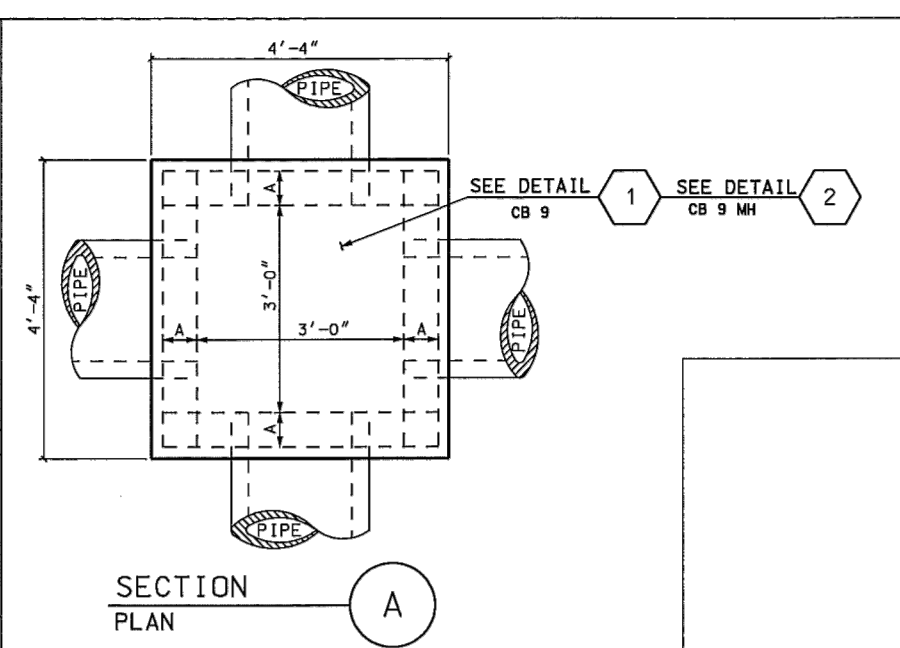
NO.	DATE	DESCRIPTION
0	3/2008	ISSUED FOR CONSTRUCTION
1		
2		
3		
4		
5		

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 4025
COLUMBIA, SC 29201

**STANDARD DRAWING
CATCH BASIN TYPE
9 & 9MH
DETAILS**

719-009-01
EFFECTIVE LETTING DATE: MAY, 2008

USE SHEETS 719-009-01 THROUGH 719-009-05 FOR THIS ITEM
THIS DRAWING IS NOT TO SCALE



PRECAST ITEMS

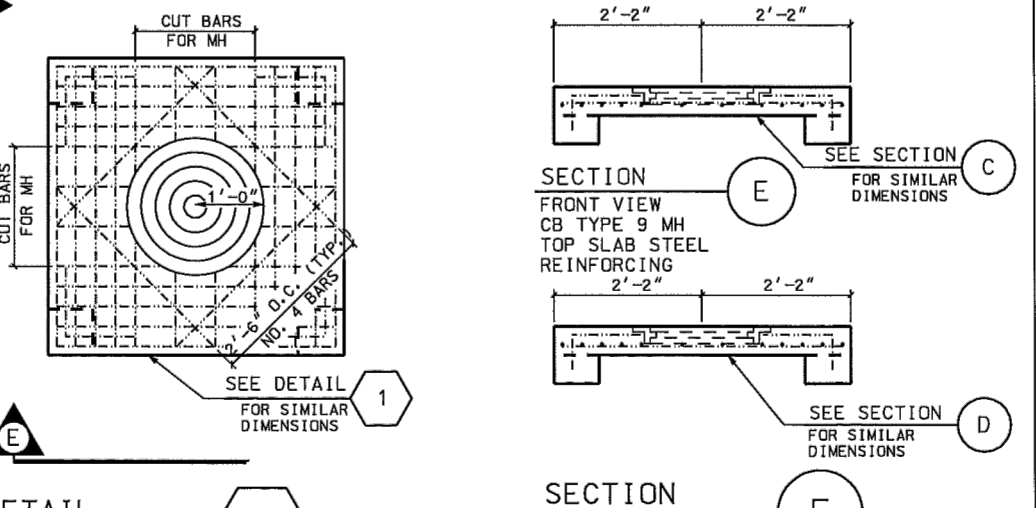
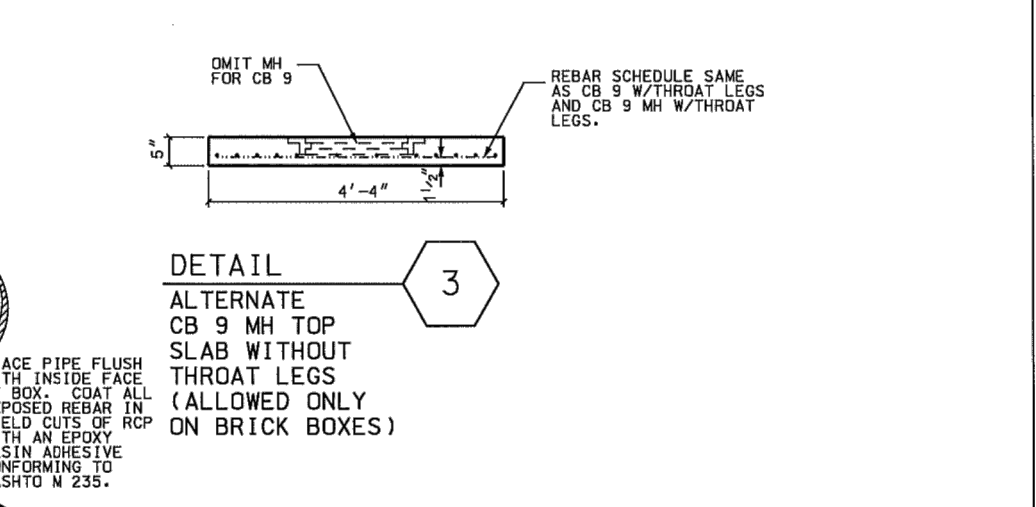
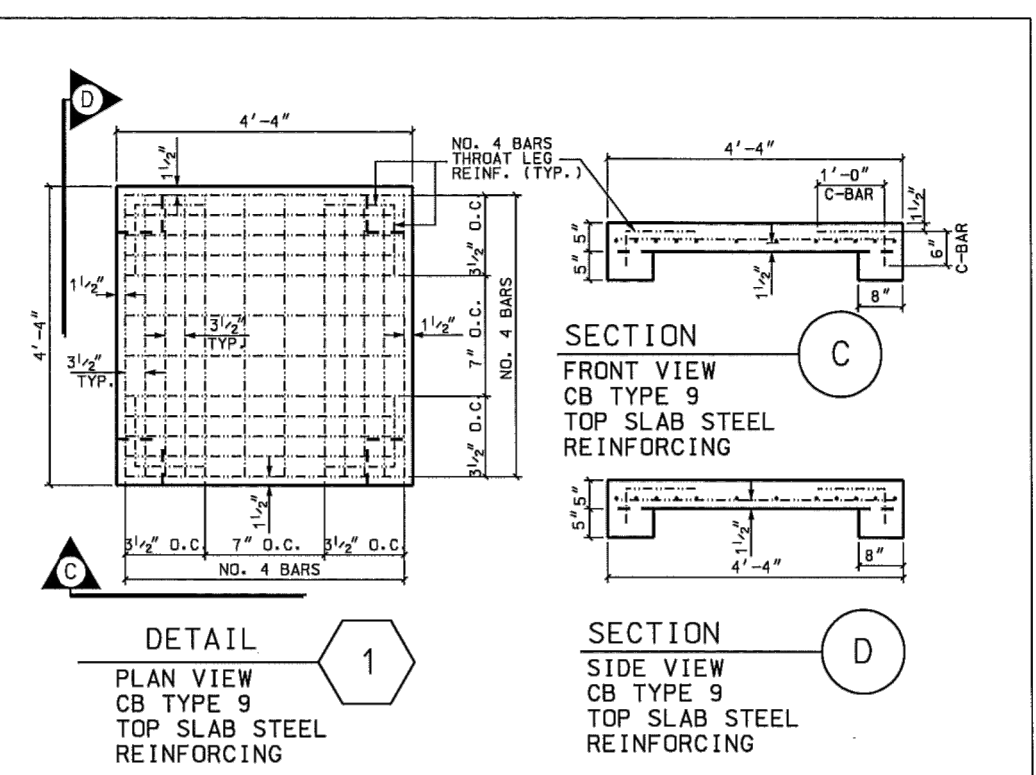
CB 9 BOTTOM SLAB (52"x52"x6")
CB 9 TOP SLAB WITH THROAT LEGS (52"x52"x10")
CB 9 MH TOP SLAB WITH THROAT LEGS (52"x52"x10")
ALTERNATE CB 9 TOP SLAB WITHOUT THROAT LEGS (52"x52"x6")
SEE ALSO STD. DRAWING 719-310-00 & 719-305-00

TABLE 719-009A

DIMENSION LABEL	PRECAST OPTION	BUILT IN PLACE OPTION
A	6"	8"
B	5"	2 COURSE OF BRICK
C	2"	0

CONTRACTOR MAY USE PRECAST OR BUILT-IN PLACE CONSTRUCTION NOTED ABOVE OR COMBINE OPTIONS AS DESIRED. SEE QUALIFIED PRODUCT LIST 14 FOR MANUFACTURERS OF PRECAST ITEMS.

BUILT IN PLACE
 (1) CB 9 BOTTOM SLAB (PC OR CIP 52"x52"x6") AND BRICK WALLS (8")
 (2) CB 9 PC TOP SLAB WITH THROAT LEGS (52"x52"x10")
 (3) CB 9 MH PC TOP SLAB WITH THROAT LEGS (52"x52"x10")
ALTERNATE BUILT IN PLACE
 (4) CB 9 BOTTOM SLAB (PC OR CIP 52"x52"x6") AND BRICK THROAT (2 COARSE)
 (5) CB 9 PC TOP SLAB WITHOUT THROAT LEGS (52"x52"x6")
 (6) CB 9 MH PC TOP SLAB WITHOUT THROAT LEGS (52"x52"x6")
PRECAST
 (7) PC DRAINAGE BOX CONFORMING TO 719-310-00 OR 719-305-00 AND CB 9 PC TOP SLAB WITH THROAT LEGS (52"x52"x10")
 (8) CB 9 MH PC TOP SLAB WITH THROAT LEGS (52"x52"x10")

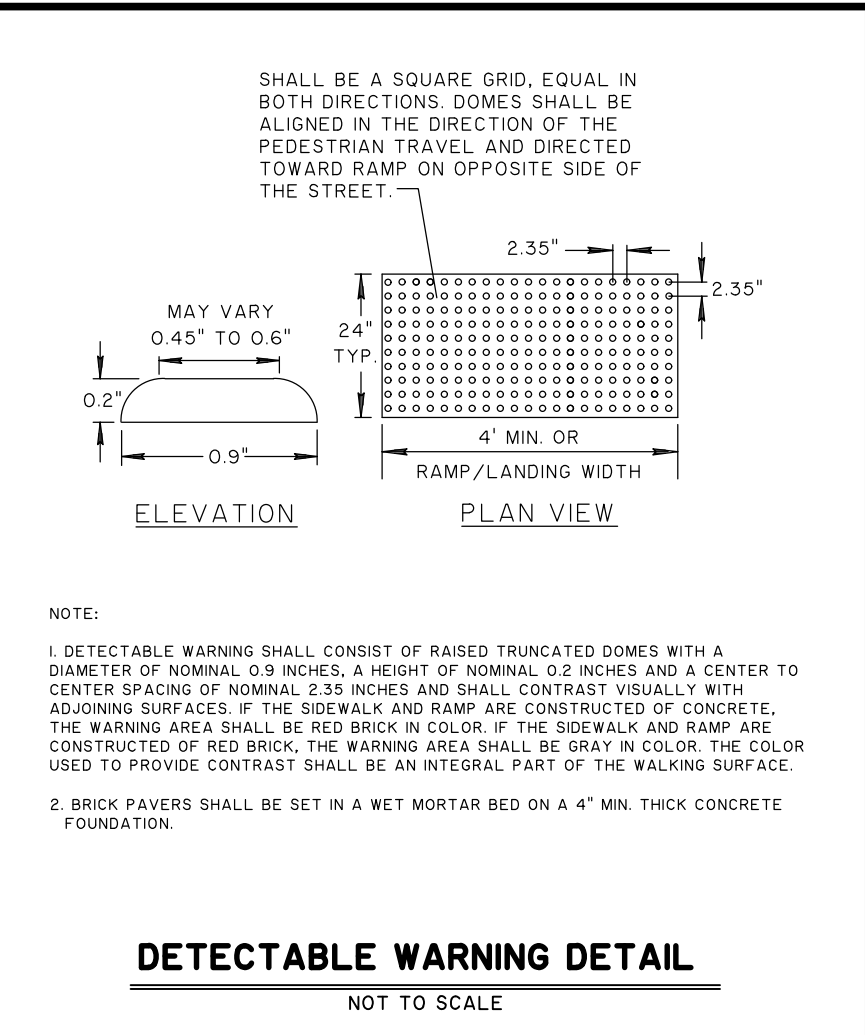


FIELD CUTS EXPOSING REBAR SHALL BE COVERED WITH AN EPOXY RESIN ADHESIVE CONFORMING TO ASHTO M 235

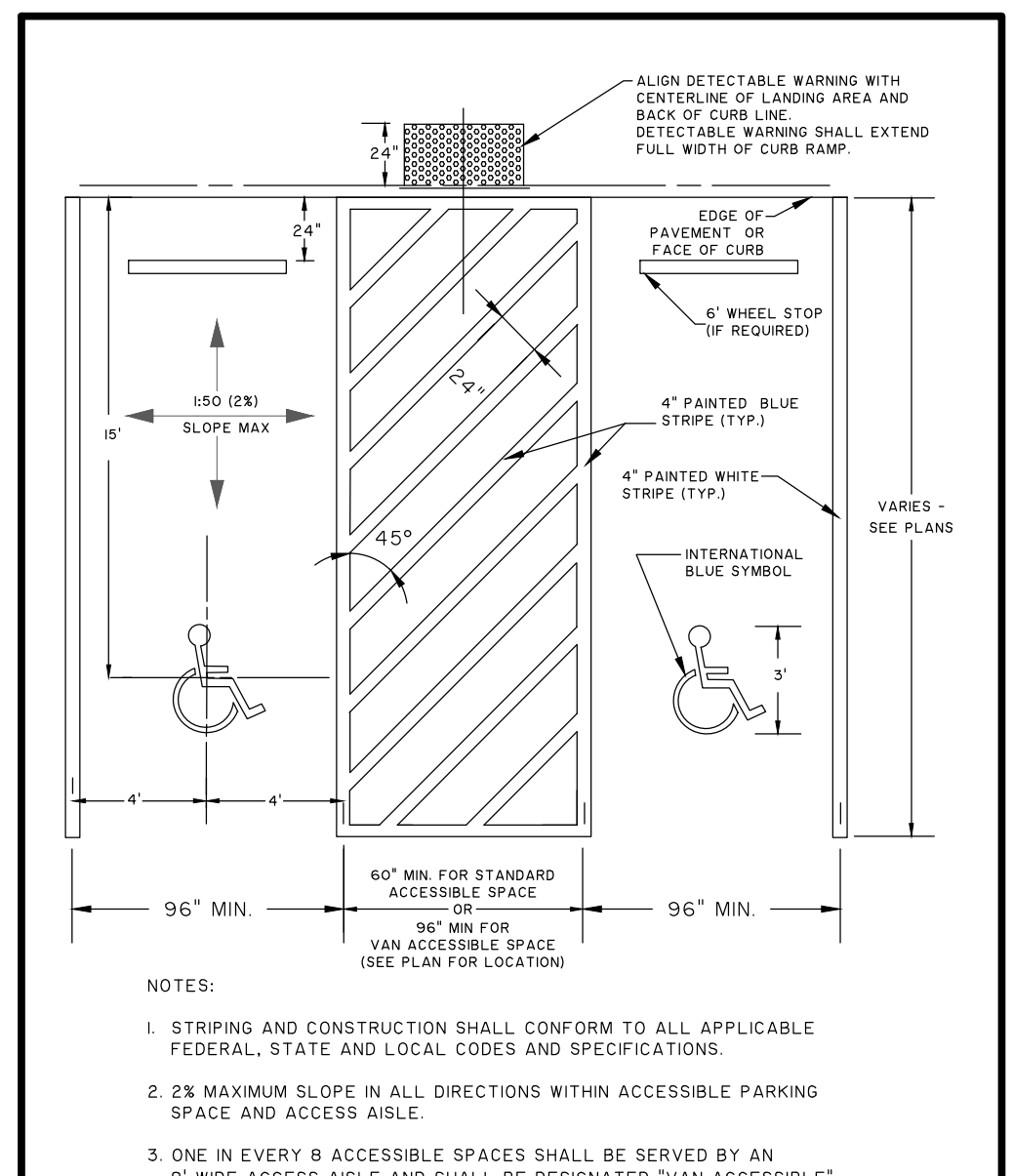
OPTIONAL TOP EL. OF CIP BOTTOM SLAB IF PIPE IS INSTALLED BEFORE SLAB

4 SPACES @ 12" (BOTH DIRECTIONS) NO. 4 BARS

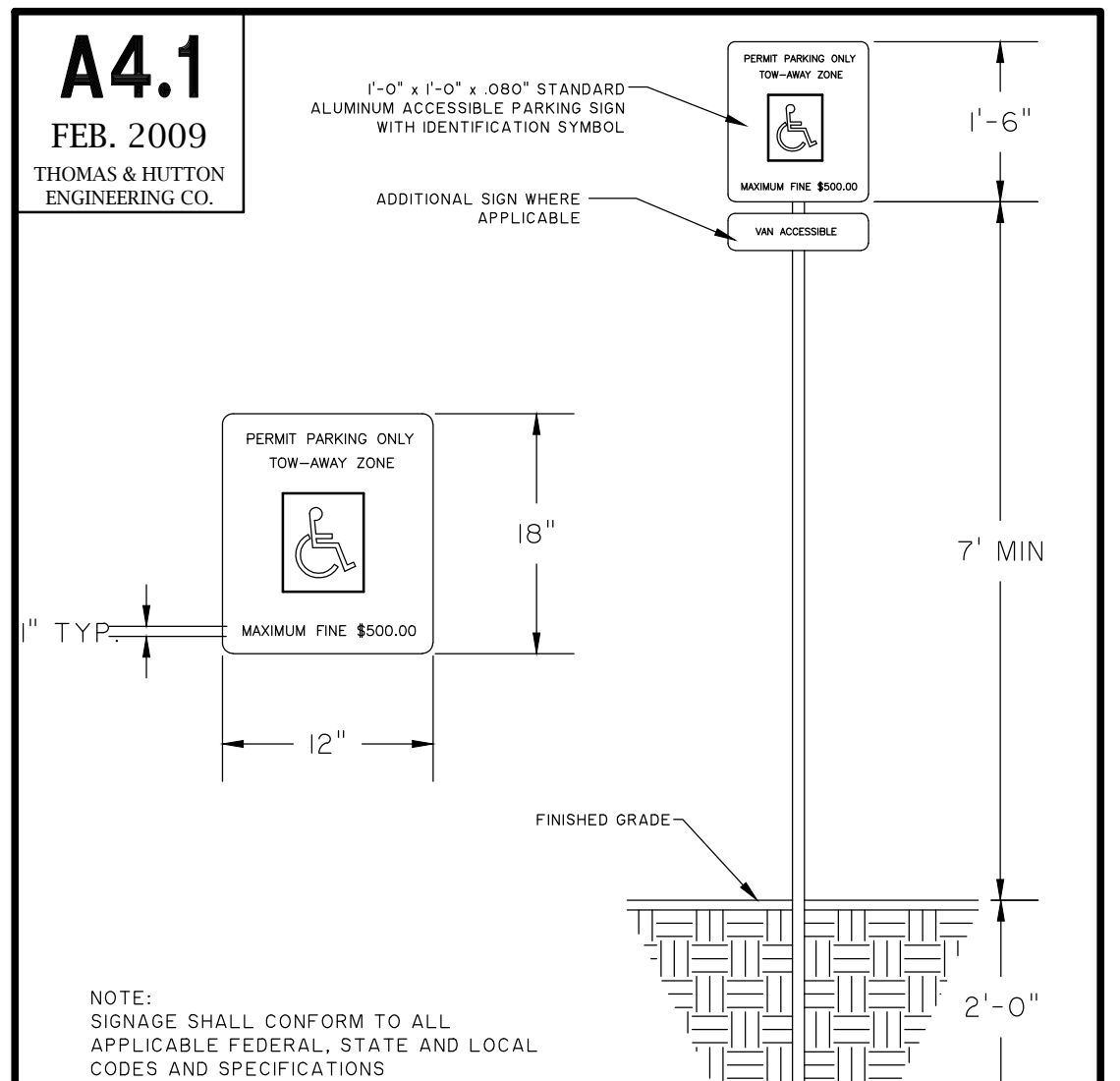
4 SPACES @ 12" (BOTH DIRECTIONS) NO. 4 BARS



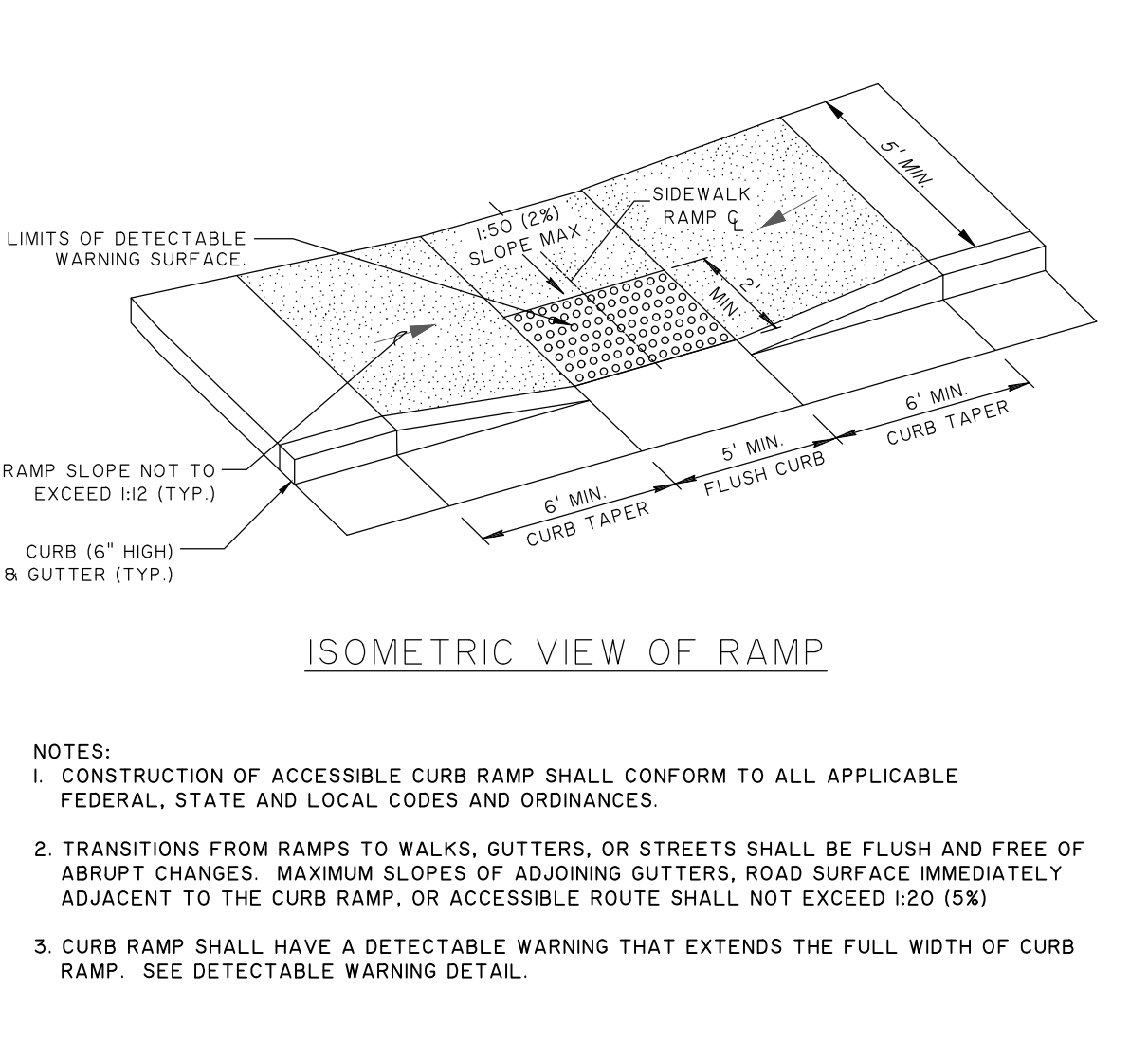
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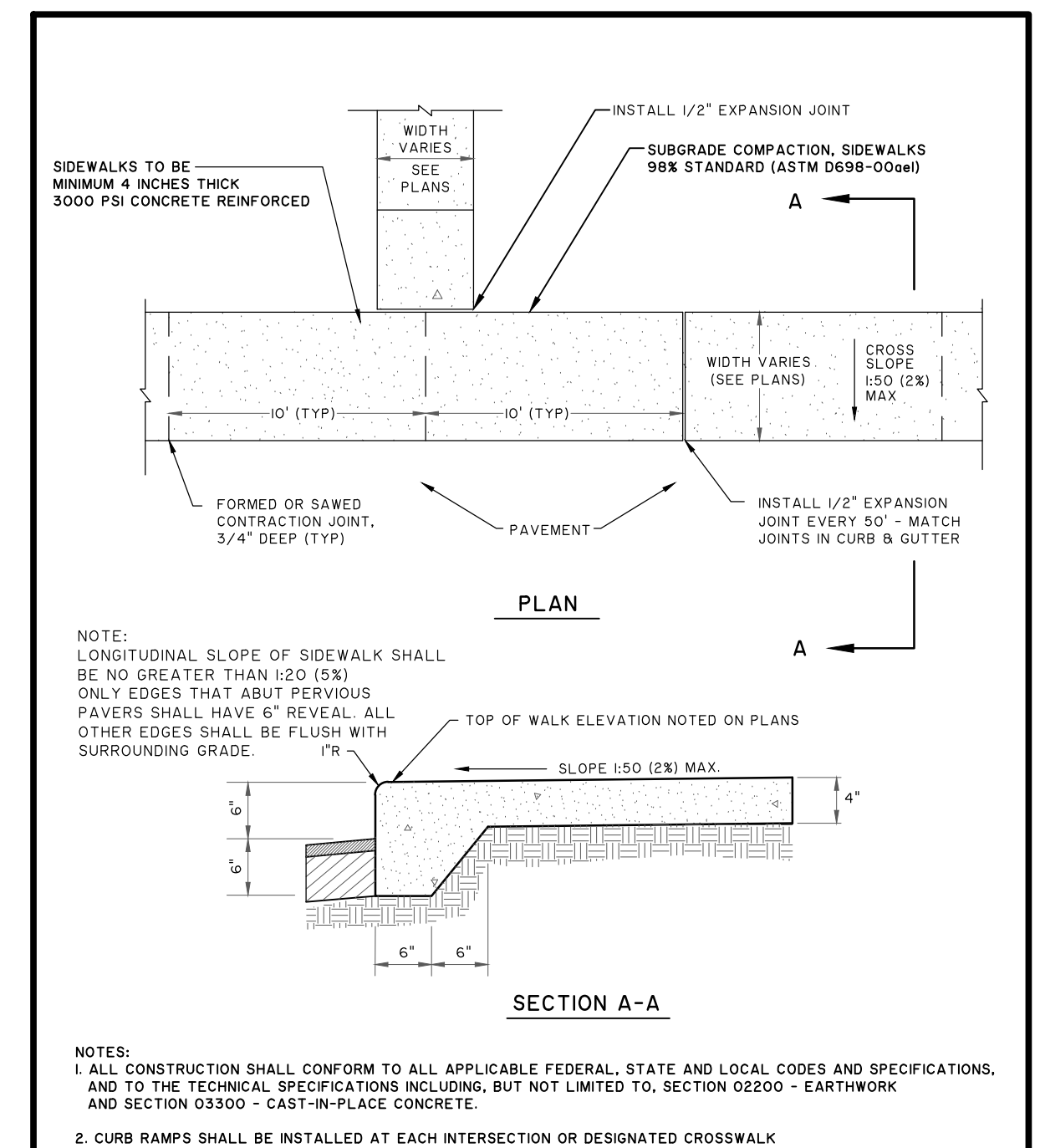
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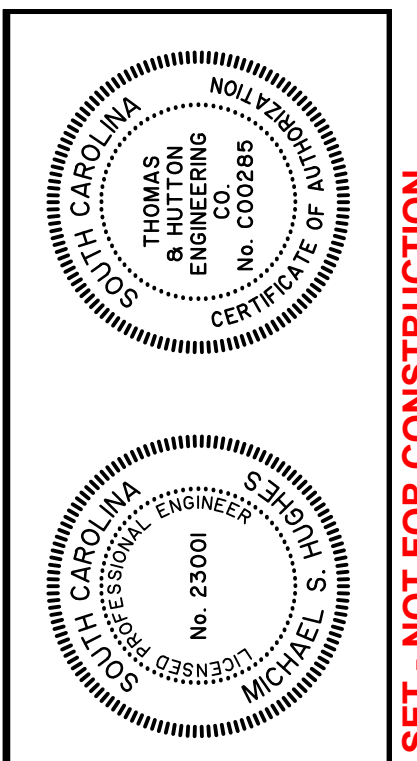
A4.1
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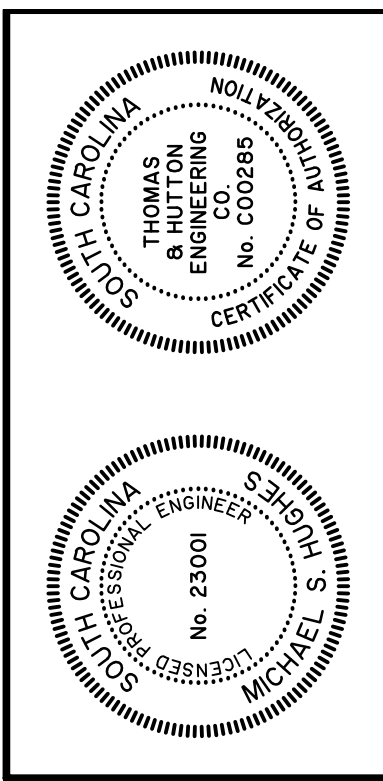
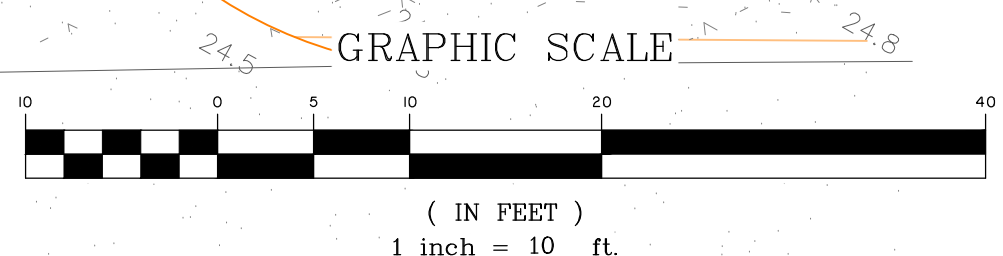
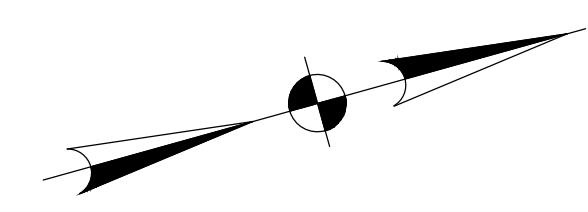
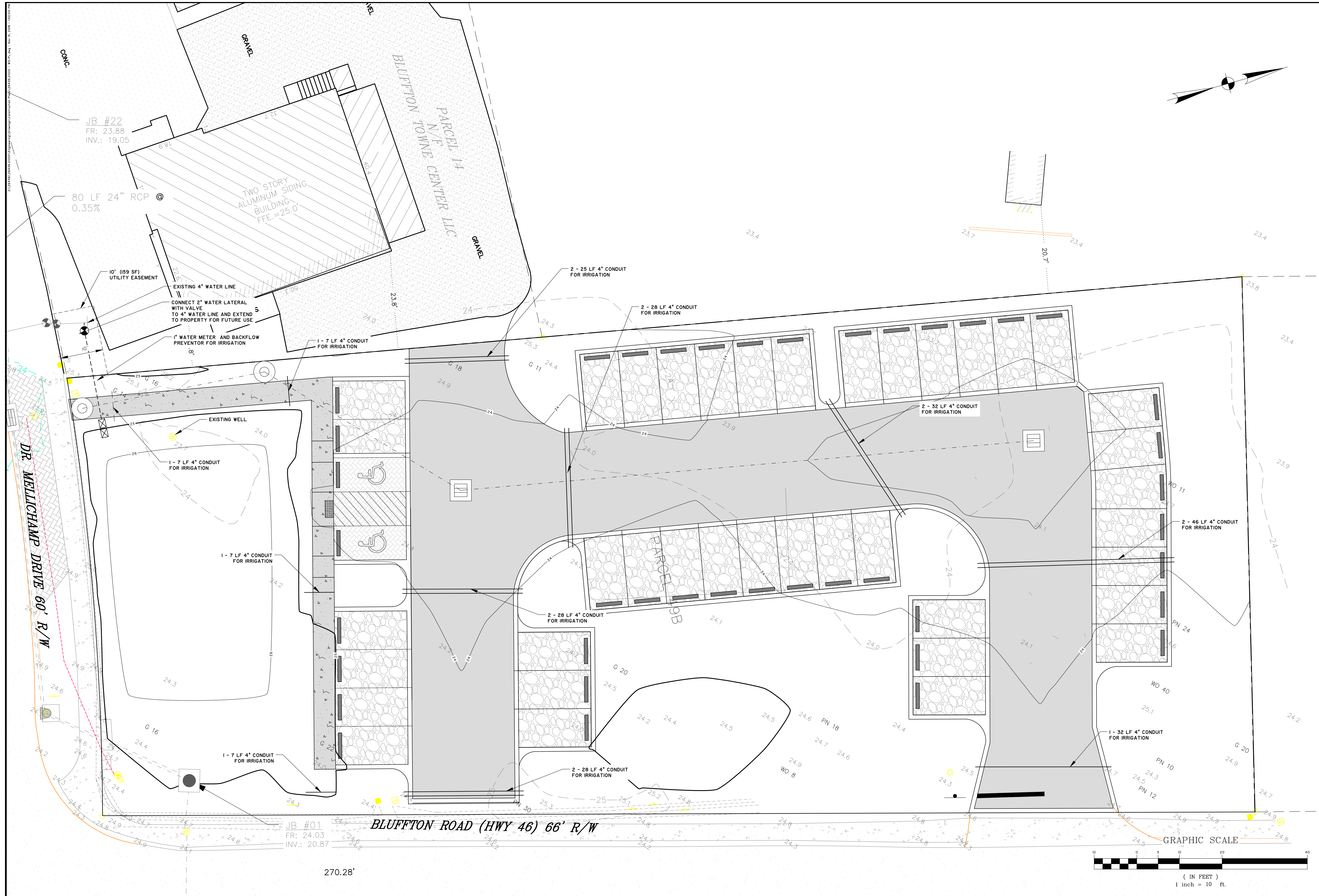
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TOWN OF BLUFFTON
BLUFFTON, SOUTH CAROLINA
184 BLUFFTON
PAVING GRADING AND DRAINAGE DETAILS

JOB NO:	J-26436.2000
DATE:	11/01/18
DRAWN:	TMV
DESIGNED:	TMV
REVIEWED:	JPM
APPROVED:	MSH
SCALE:	NTS

C1.3

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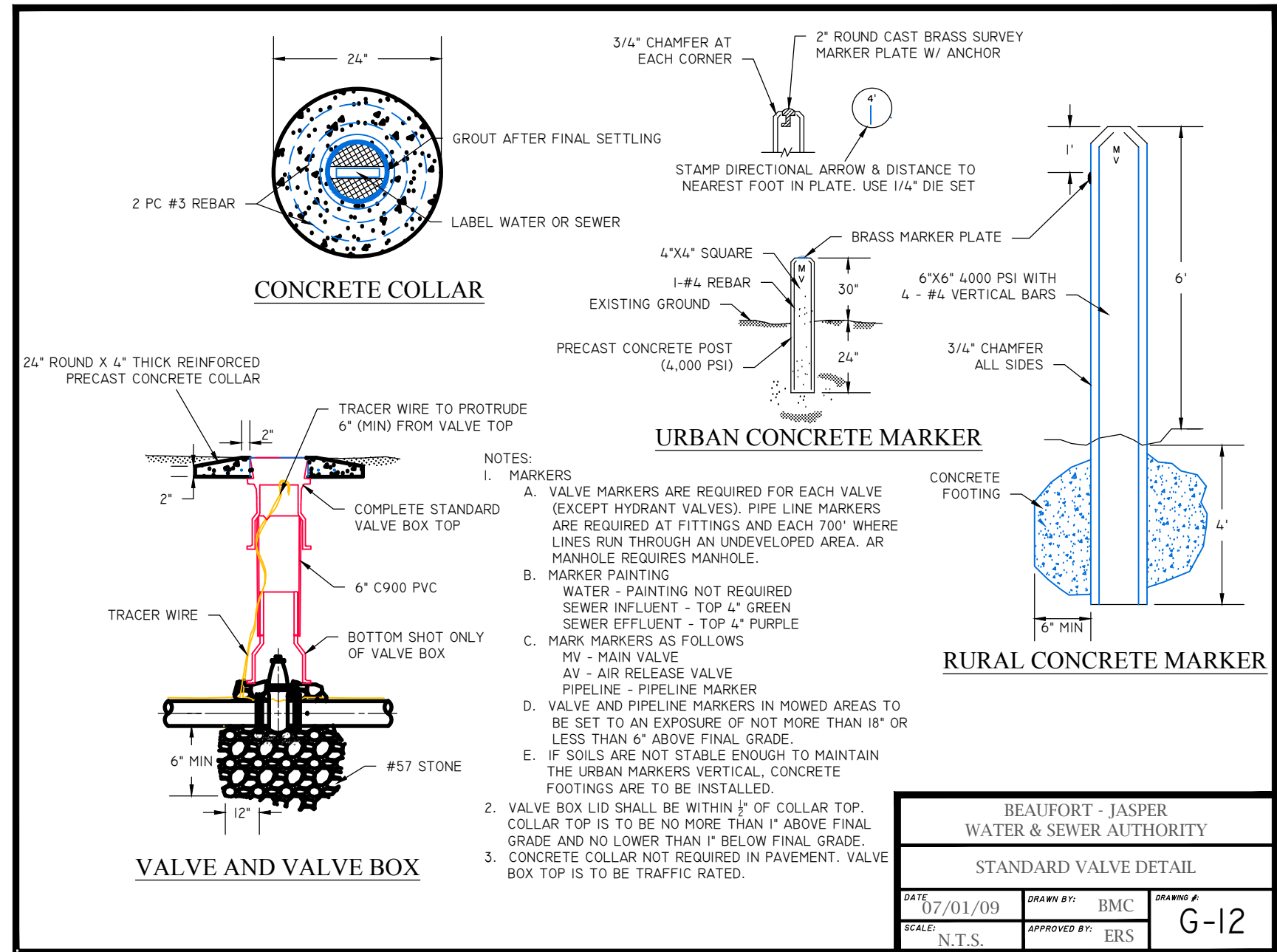
TOWN OF BLUFFTON
 BLUFFTON, SOUTH CAROLINA
 184 BLUFFTON
 UTILITY PLAN

JOB NO: J-26436.2000
 DATE: 11/01/18
 DRAWN:
 DESIGNED:
 REVIEWED:
 APPROVED:
 SCALE: 1" = 10'

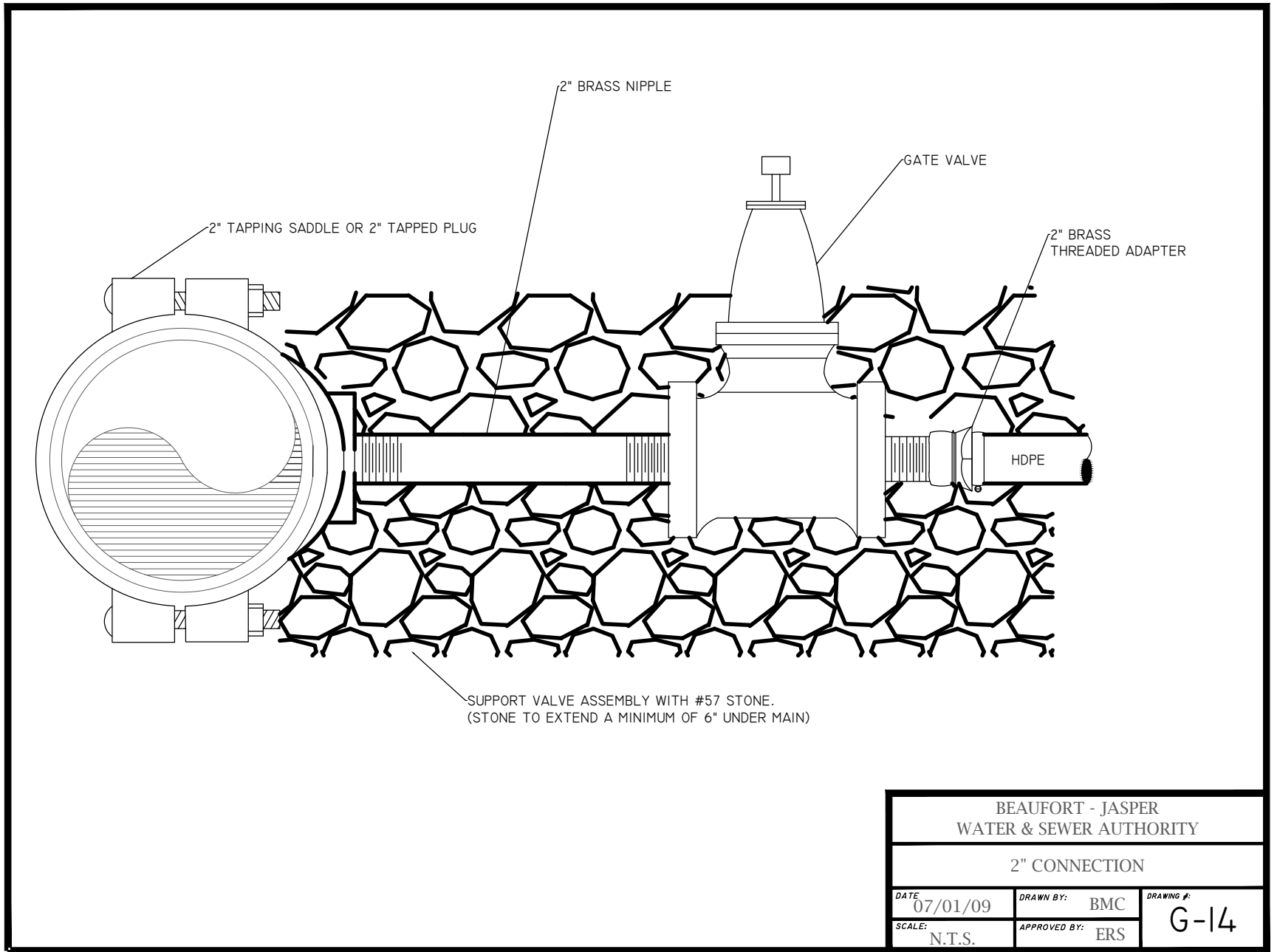
C2.1

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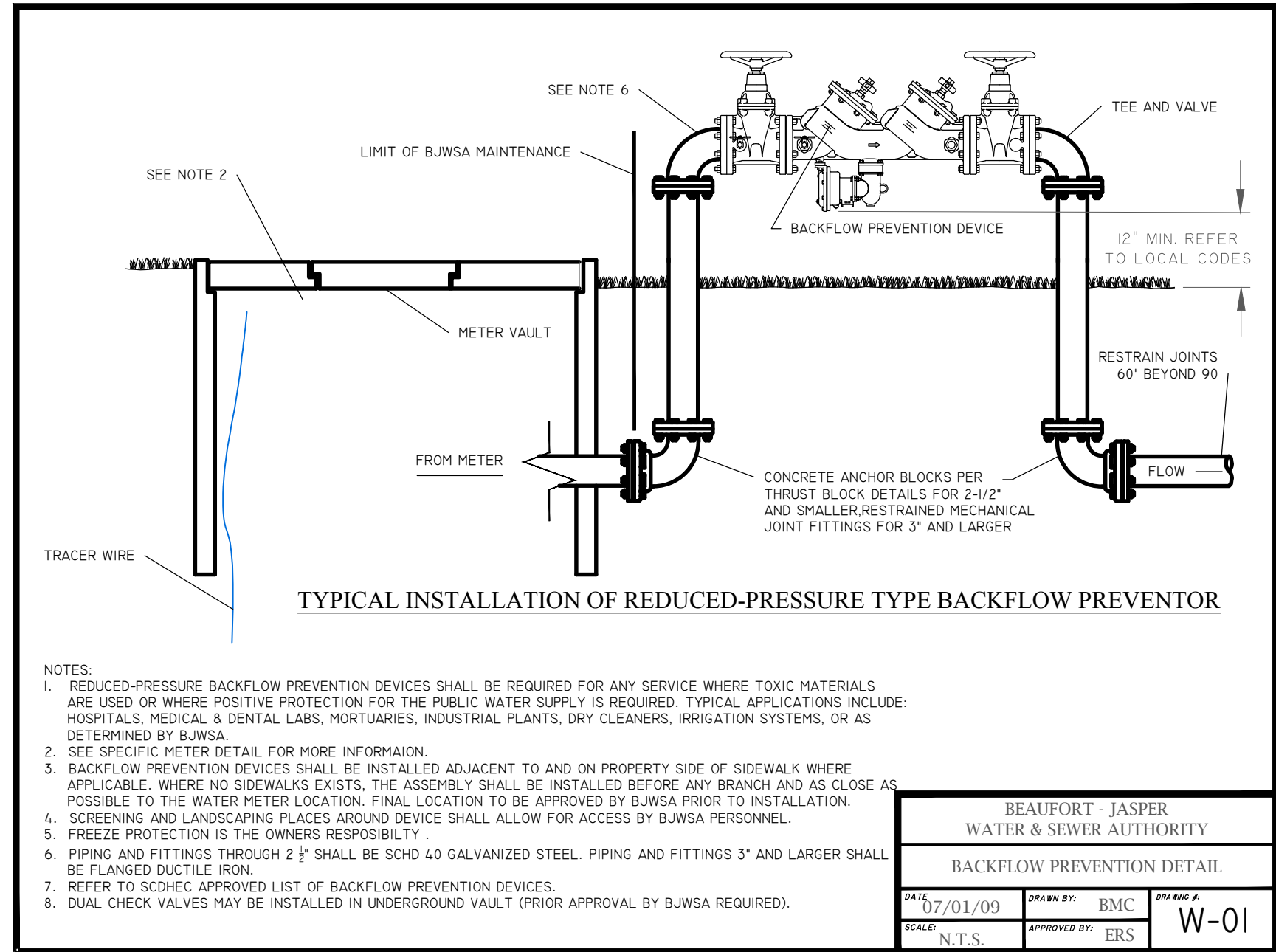
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BEAUFORT - JASPER WATER & SEWER AUTHORITY			
STANDARD VALVE DETAIL			
DATE: 07/01/09	DRAWN BY: BMC	DESIGN #	G-12
SCALE: N.T.S.	APPROVED BY: ERS		

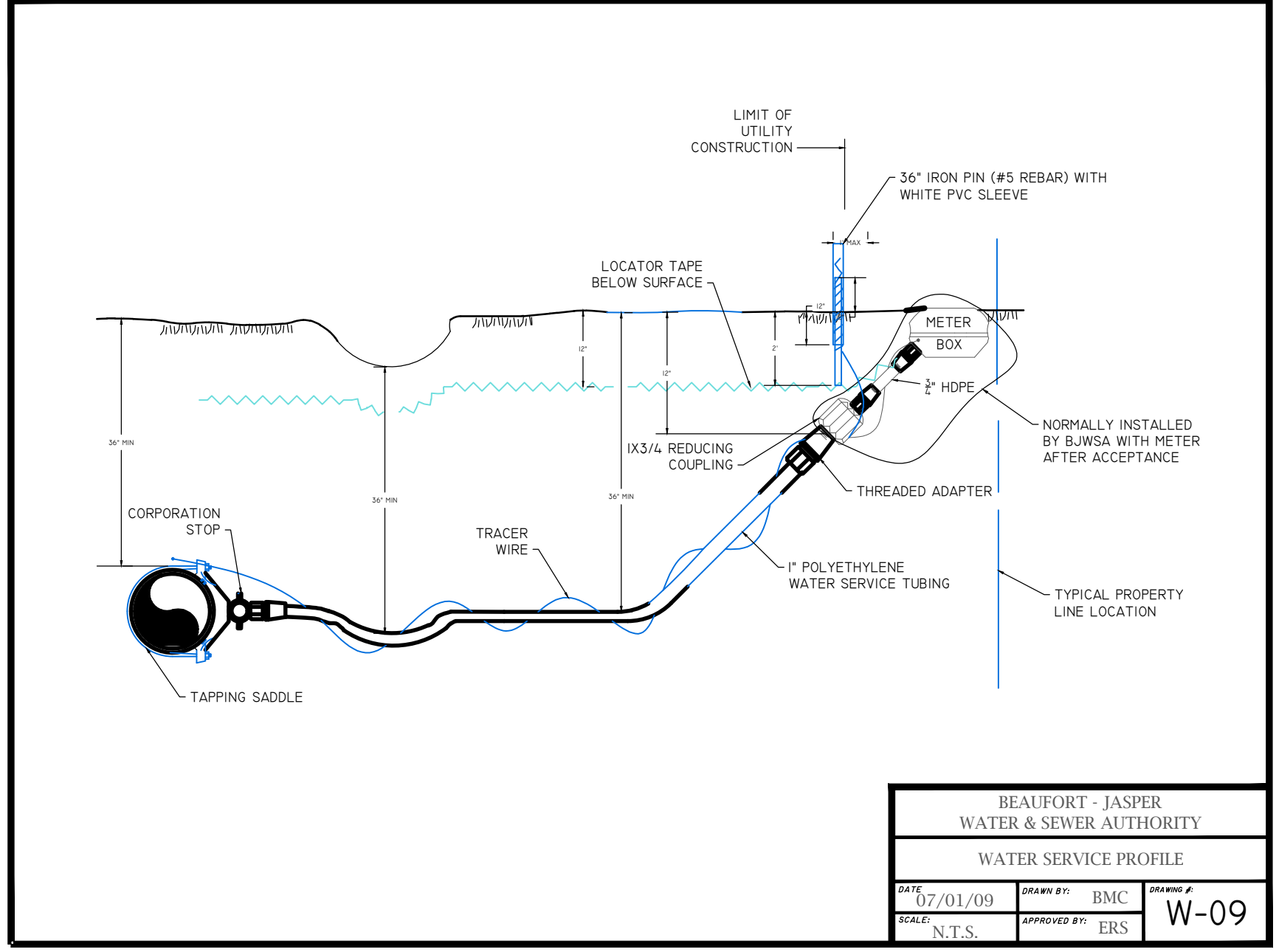


BEAUFORT - JASPER WATER & SEWER AUTHORITY			
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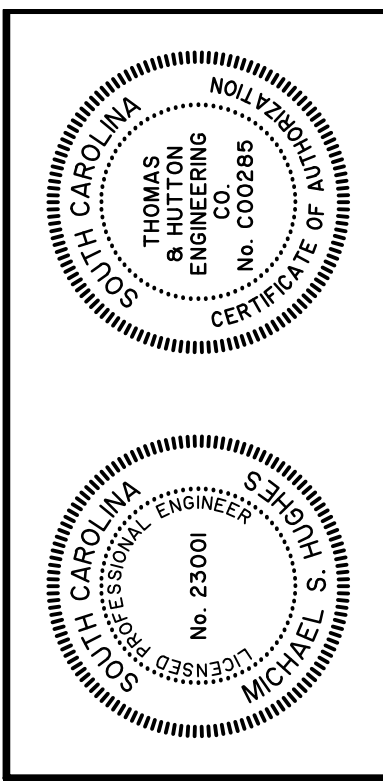


BEAUFORT - JASPER WATER & SEWER AUTHORITY			
BACKFLOW PREVENTION DETAIL			
DATE: 07/01/09	DRAWN BY: BMC	DESIGN #	W-01
SCALE: N.T.S.	APPROVED BY: ERS		

- NOTES:**
- REDUCED-PRESSURE BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED FOR ANY SERVICE WHERE TOXIC MATERIALS ARE USED OR WHERE POSITIVE PROTECTION FOR THE PUBLIC WATER SUPPLY IS REQUIRED. TYPICAL APPLICATIONS INCLUDE: HOSPITALS, MEDICAL & DENTAL LABS, MORTUARIES, INDUSTRIAL PLANTS, DRY CLEANERS, IRRIGATION SYSTEMS, OR AS DETERMINED BY BJWSA.
 - SEE SPECIFIC METER DETAIL FOR MORE INFORMATION.
 - BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED ADJACENT TO AND ON PROPERTY SIDE OF SIDEWALK WHERE APPLICABLE. WHERE NO SIDEWALK EXISTS, THE ASSEMBLY SHALL BE INSTALLED BEFORE ANY BRANCH AND AS CLOSE AS POSSIBLE TO THE WATER METER LOCATION. FINAL LOCATION TO BE APPROVED BY BJWSA PRIOR TO INSTALLATION. SCREENING AND LANDSCAPING PLACES AROUND DEVICE SHALL ALLOW FOR ACCESS BY BJWSA PERSONNEL.
 - FREEZE PROTECTION IS THE OWNERS RESPONSIBILITY.
 - PIPING AND FITTINGS THROUGH 2" SHALL BE SCHD 40 GALVANIZED STEEL. PIPING AND FITTINGS 3" AND LARGER SHALL BE FLANGED DUCTILE IRON.
 - REFER TO SCDEHC APPROVED LIST OF BACKFLOW PREVENTION DEVICES.
 - DUAL CHECK VALVES MAY BE INSTALLED IN UNDERGROUND VAULT (PRIOR APPROVAL BY BJWSA REQUIRED).



BEAUFORT - JASPER WATER & SEWER AUTHORITY			
WATER SERVICE PROFILE			
DATE: 07/01/09	DRAWN BY: BMC	DESIGN #	W-09
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NO.	REVISIONS	BY	DATE

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TOWN OF BLUFFTON
 BLUFFTON, SOUTH CAROLINA
 184 BLUFFTON
 WATER DETAILS

JOB NO:	J-26436.2000
DATE:	11/01/18
DRAWN:	TMV
DESIGNED:	TMV
REVIEWED:	JPM
APPROVED:	MSH
SCALE:	NTS

C2.2

BID SET - NOT FOR CONSTRUCTION