

**STANDARD UTILITY NOTES:**

- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION).
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- UTILITY SEPARATION REQUIREMENTS:
  - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
  - WHEN INSTALLING WATER AND/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
  - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
  - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
  - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49).
  - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- CONTRACTOR SHALL COORDINATE THE LOCATION OR RELOCATION OF ALL OVERHEAD AND UNDERGROUND COMMUNICATION LINES, ELECTRIC AND GAS SERVICE WITH THE APPROPRIATE UTILITY COMPANY AND/OR THE CITY PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS. CONTRACTOR SHALL ENSURE THAT ALL OVERHEAD UTILITY LINES ARE ADJUSTED BY APPROPRIATE UTILITY COMPANY TO MAINTAIN ACCEPTABLE CLEARANCES FOR FIRE APPARATUS, CONSTRUCTION EQUIPMENT, AND VEHICULAR ACCESS.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- INSTALL 2" TYPE "K" COPPER WATER SERVICE WITH METER LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT.
- INSTALL 6" SCHEDULE 40 PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE AND/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NCDOT ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE ROW PRIOR TO CONSTRUCTION.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
- CONTRACTORS WORKING (EXCAVATION, BORING, OR OTHER SUBSURFACE BREACH) AROUND OR IN THE VICINITY OF EXISTING WATER LINES 12 INCHES IN DIAMETER OR LARGER SHALL BE REQUIRED TO PHYSICALLY SPOT THE EXISTING LINE TO BE VERIFIED BY P.U.D. DISTRIBUTION STAFF OR INSPECTION STAFF. IF OTHER EXISTING LINES SIZES ARE IN QUESTION OF CONFLICT THE CONTRACTOR SHALL BE DIRECTED BY P.U.D. STAFF OF THE LEVEL OF SUBSURFACE INVESTIGATION NEEDED TO LOCATE THE EXISTING LINE.
- KALAS FALLS SANITARY SEWER MANHOLE 208 AND DOWNSTREAM SANITARY SEWER LINE TO SANITARY SEWER MANHOLE 207 TO BE LINED PER CITY OF RALEIGH DETAILS FOR RECEIVE FLOW FROM SANITARY SEWER FORCE MAIN.
- THIS DEVELOPMENT RELIES UPON KALAS FALLS FOR ACCESS TO PUBLIC WATER AND PUBLIC SANITARY SEWER. IF KALAS FALLS DOES NOT INSTALL NECESSARY INFRASTRUCTURE, THIS DEVELOPMENT MAY BE RESPONSIBLE FOR NECESSARY EXTENSIONS.



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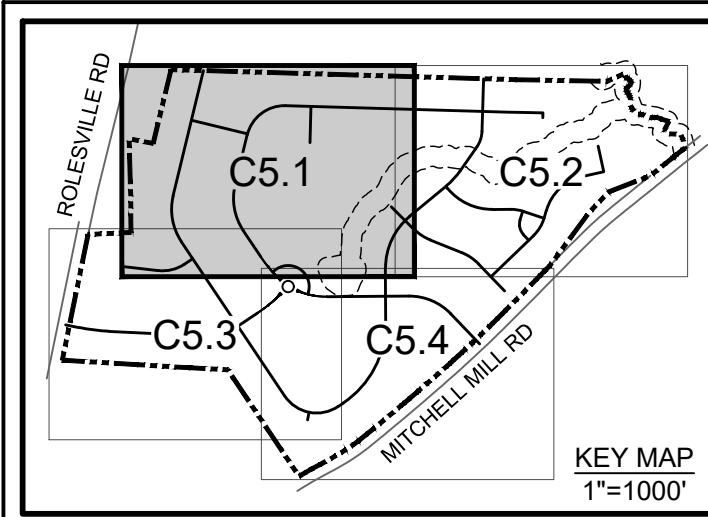
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07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021  
 DRAWN BY R. WINGATE  
 DESIGNED BY P. BARBEAU  
 CHECKED BY P. BARBEAU  
 SCALE AS SHOWN

**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652  
**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**OVERALL UTILITY PLAN**

JOB NO. 43398  
 SHEET NO. C5.0

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## ROLESVILLE CROSSING - CD 21-08

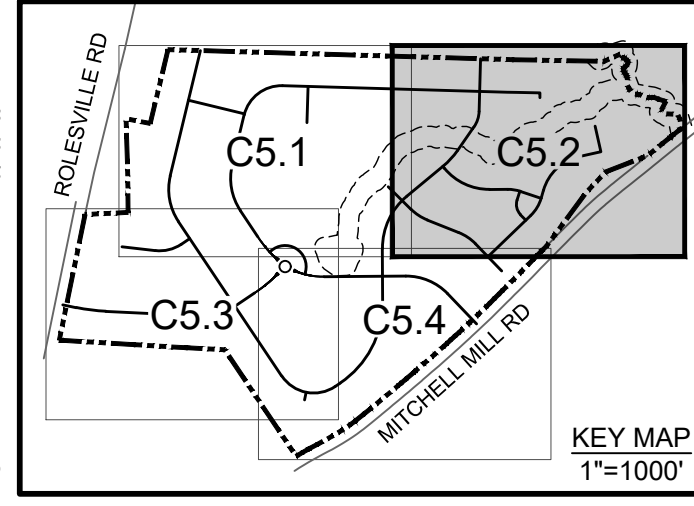
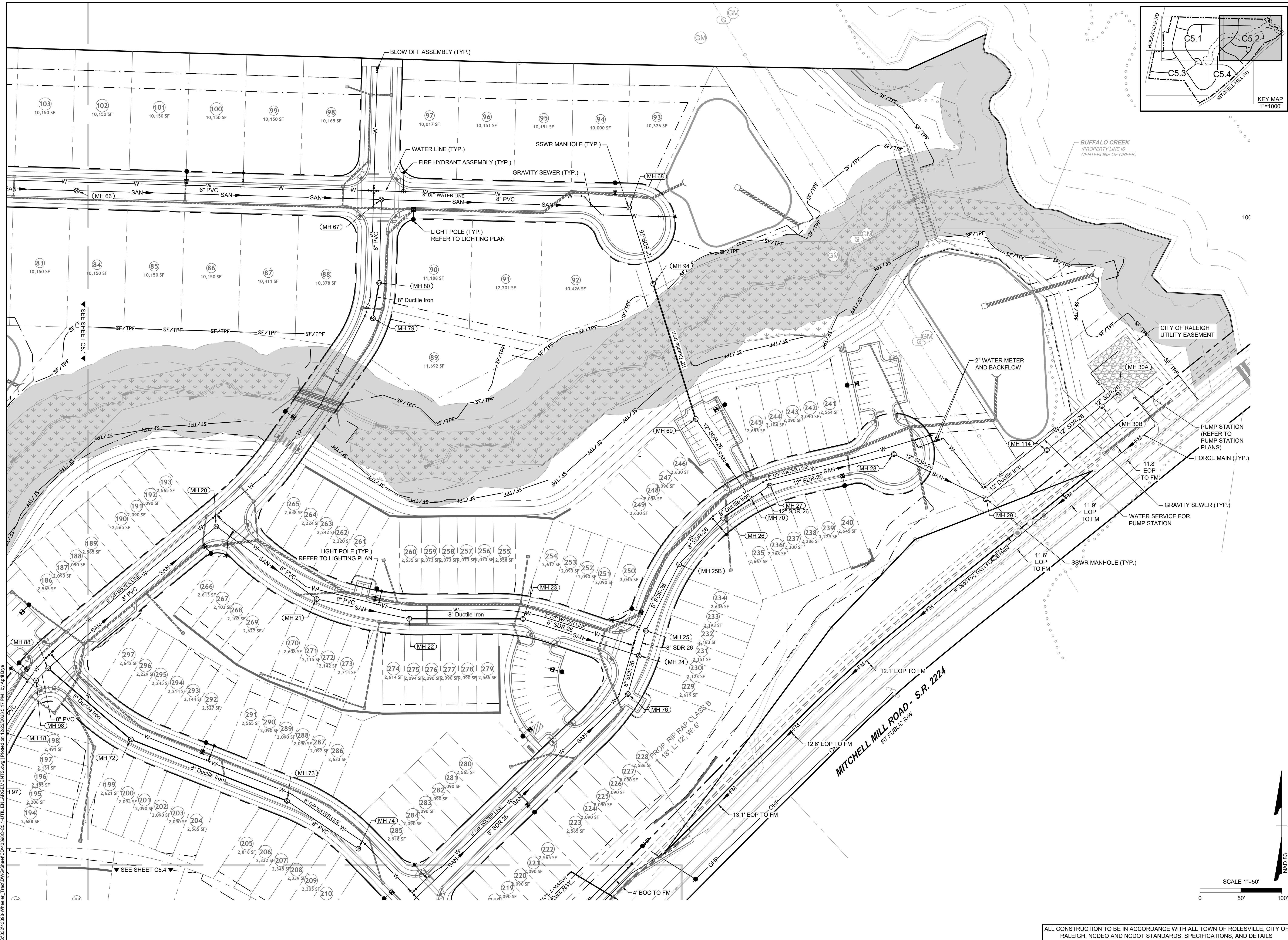
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

### UTILITY PLAN

JOB NO. 43398  
 SHEET NO. C5.1

REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## ROLESVILLE CROSSING - CD 21-08

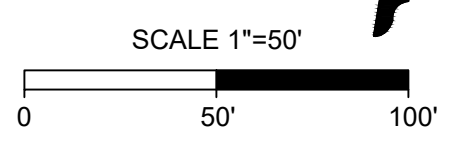
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

### UTILITY PLAN

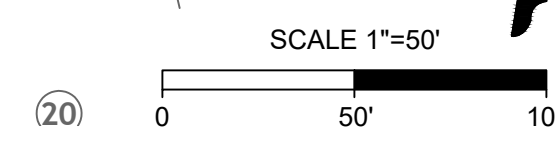
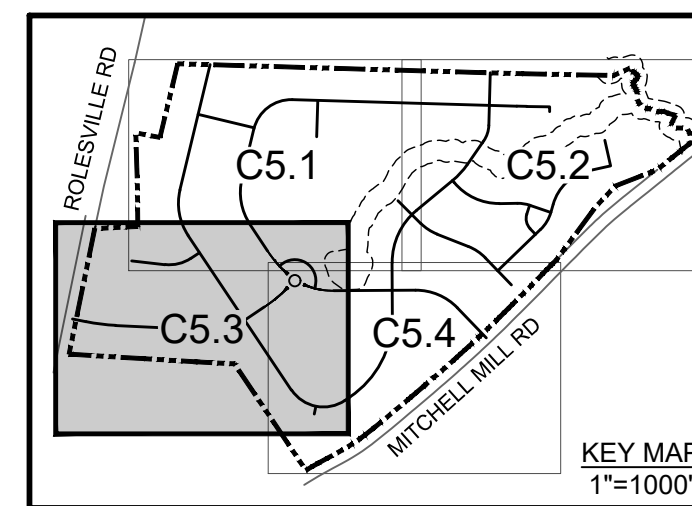
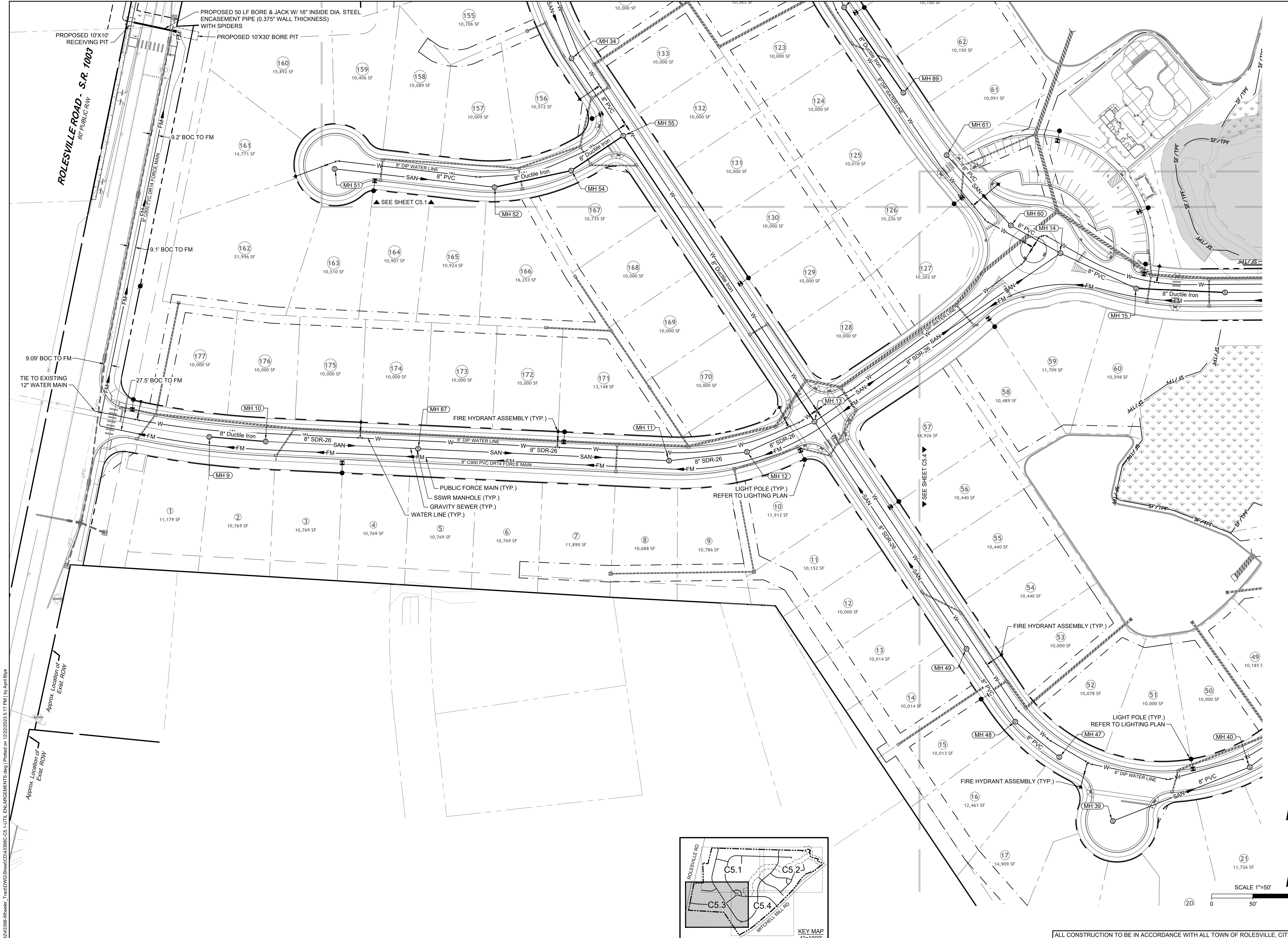
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REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

JOB NO. 43398  
 SHEET NO. C5.2

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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DATE	REVISION DESCRIPTION
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09/06/2023	REVISE PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISE TO APPROVED PLANS

DATE  
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 DRAWN BY  
 R. WINGATE  
 DESIGNED BY  
 P. BARBEAU  
 CHECKED BY  
 P. BARBEAU  
 SCALE  
 AS SHOWN

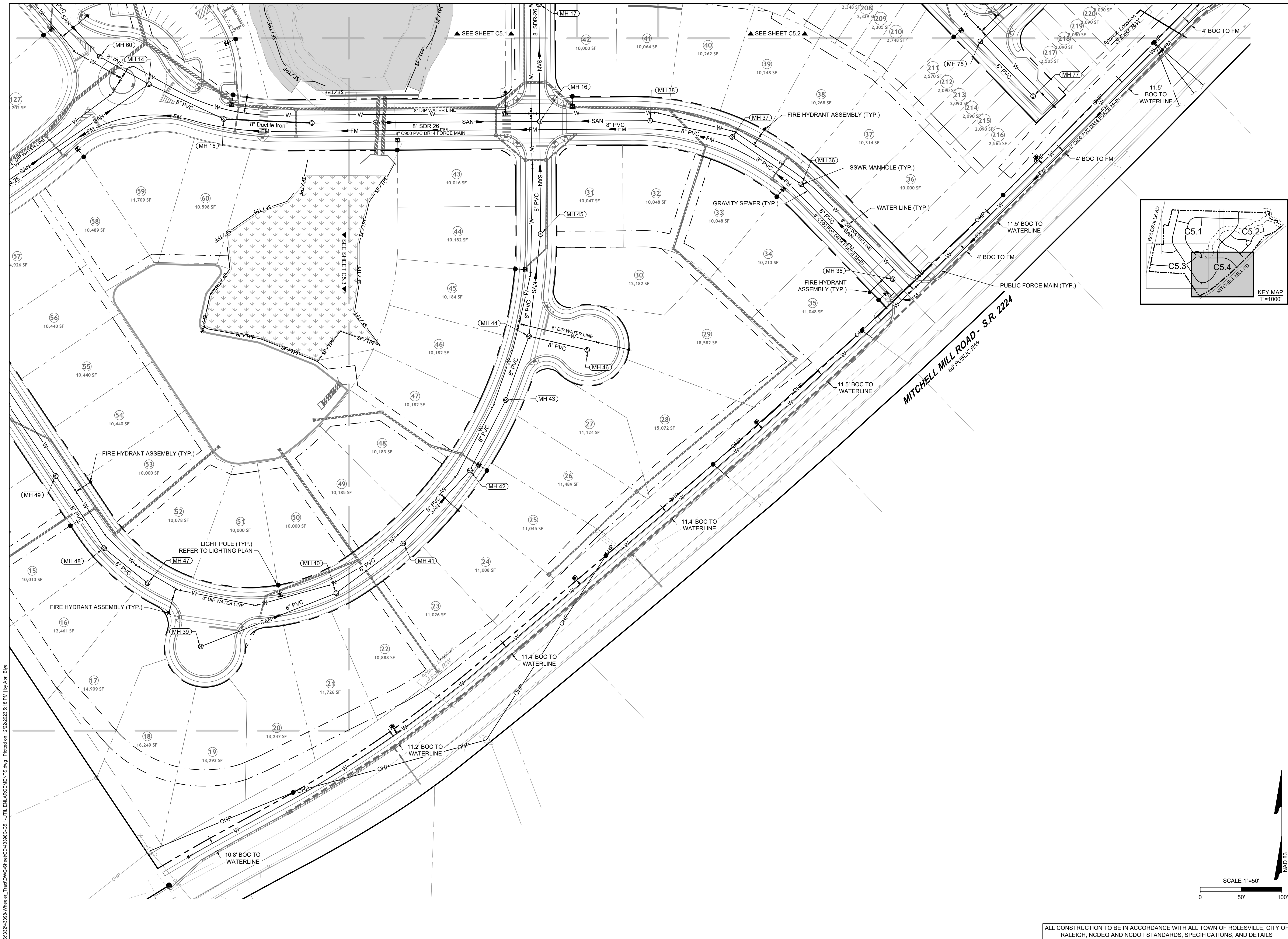
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**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**UTILITY PLAN**

JOB NO.  
**43398**  
 SHEET NO.  
**C5.3**

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

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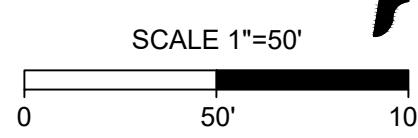
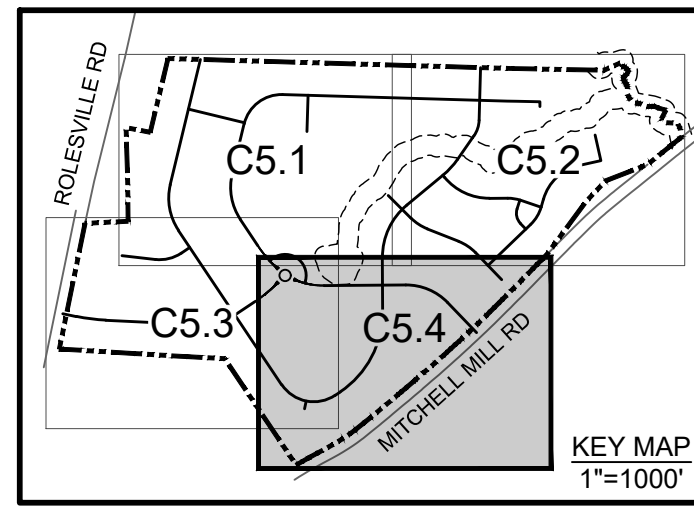
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## ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

### UTILITY PLAN

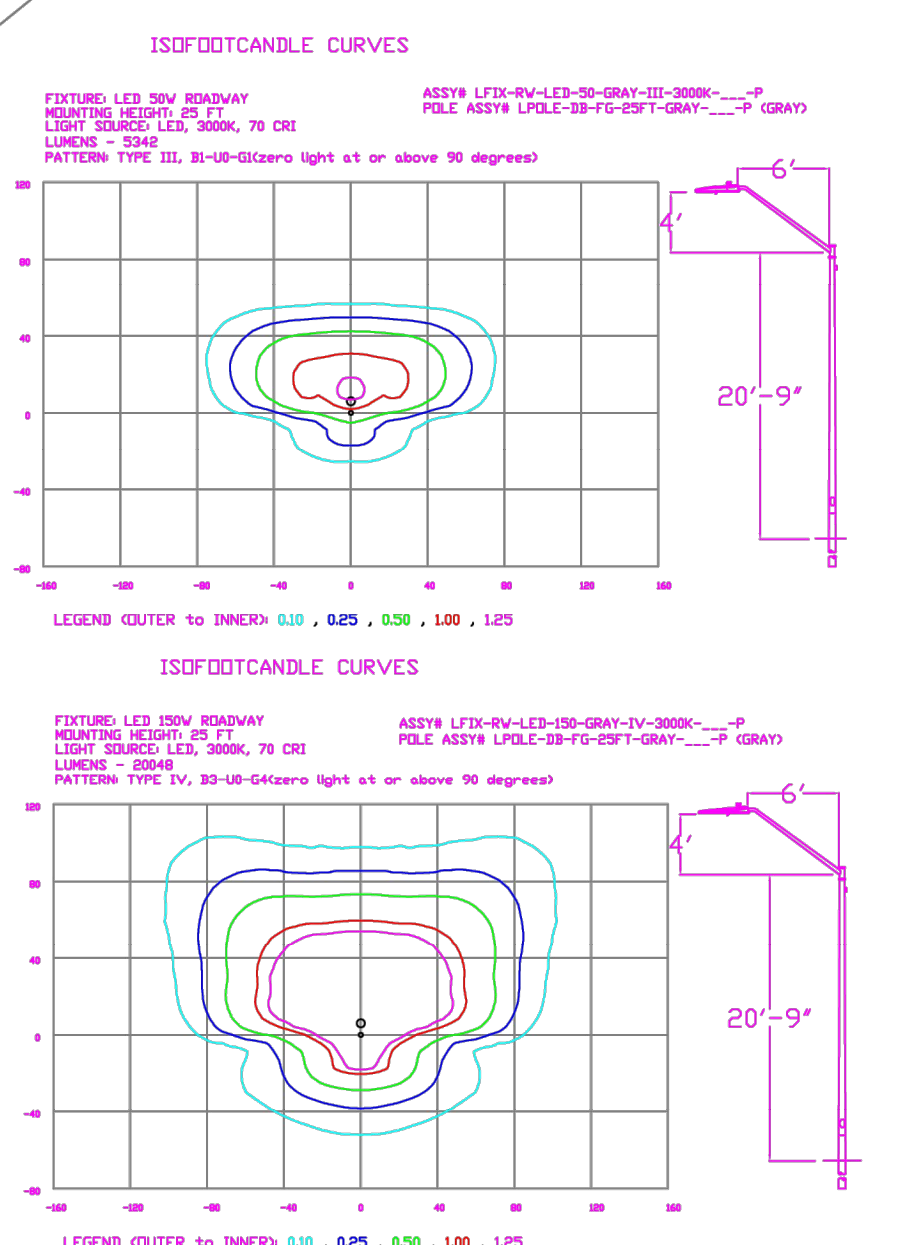
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REVISIONS TO APPROVED PLANS	01/02/2024



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

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### Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Road	X	0.3 fc	1.5 fc	0.0 fc	N/A	N/A

### Schedule

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
X	A	44	LED 50w Roadway - Type III - 3000K - Street Lighting	1	5342	0.85
X	B	5	LED 50w Roadway - Type III - 3000K - Parking Lighting	1	5342	0.85
X	C	2	LED 150w Roadway - Type IV - 3000K - Parking Lighting	1	20049	0.85

#### Outdoor Lighting Roadway LED

The Roadway LED is a green solution and great fit for streets, roads, long, narrow areas and parking lots. The ergonomic fixture luminaire delivers the light where it is needed while increasing visibility and reducing spill light to adjoining properties. Choose low to medium light output as road or parking lots for mount on an existing pole. Available with one to four fixtures per pole, depending on the fixture/pole combination selected.

LED (Light Emitting Diode)  
 Lumens: 5342 | 20049  
 Mounting heights: 25', 30', 35'  
 Color: Gray, Black  
 Poles: Fiberglass, Metal (special conditions), Wood

For additional information, visit us at [duke-energy.com/OutdoorLighting](http://duke-energy.com/OutdoorLighting) or call us, toll free at 866.765.8417.

#### Outdoor Lighting Roadway LED

Light source: LED (white)

Lumens: 5342 - 20049 (fixture dependent)

Wattage	Light Pattern	IESNA Backlight-Uplight - Beam (BGL) Rating
5342	IESNA Type III (medium beam)	ES-100-G2
5342	IESNA Type III (long beam)	ES-100-G2
5342	IESNA Type III (medium beam)	ES-100-G2
5342	IESNA Type III (medium beam)	ES-100-G2
5342	IESNA Type III (medium beam)	ES-100-G2
5342	IESNA Type III (medium beam)	ES-100-G2

Color temperature: 3000K  
 Warm-up and restrike time: Instant (on the warm-up or restrike time)

Poles available:

Material	Mounting height	Color
Fiberglass	25', 30', 35'	Gray
Fiberglass	25', 30', 35'	Black (additional cost)
Wood	25', 30', 35'	Standard
Metal (special conditions)*	25', 30', 35'	Gray

Features: Little or no installation cost; Design services by lighting professionals included; Maintenance included; Electricity included; Warranty included; One low monthly cost on your electric bill; Tamper resistant; Backed by over 40 years of experience.

Benefits: Free up capital for other projects; Meet industry standards and lighting ordinances; Eliminates high and anecdotal repair bills; Less expensive than incandescent service; Worry free; Convenience and savings for you; Provides backup the installation and service; A name you can trust today... and tomorrow.

\*2" raised foundation available when required.

REV#	DATE	REVISION	BY
Rev B	07/19/22	Updated Site Plan	NJ
Rev A	12/01/2021	LED 50w & 150w Roadway - 3000K - Gray	NJ

Customer approval  
 Date \_\_\_\_\_

DISTANCE CALIBRATION (INCHES)

### LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

### PROPRIETARY & CONFIDENTIAL

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## ROLESVILLE CROSSINGS

Rolesville, NC

SITE LIGHTING PLAN

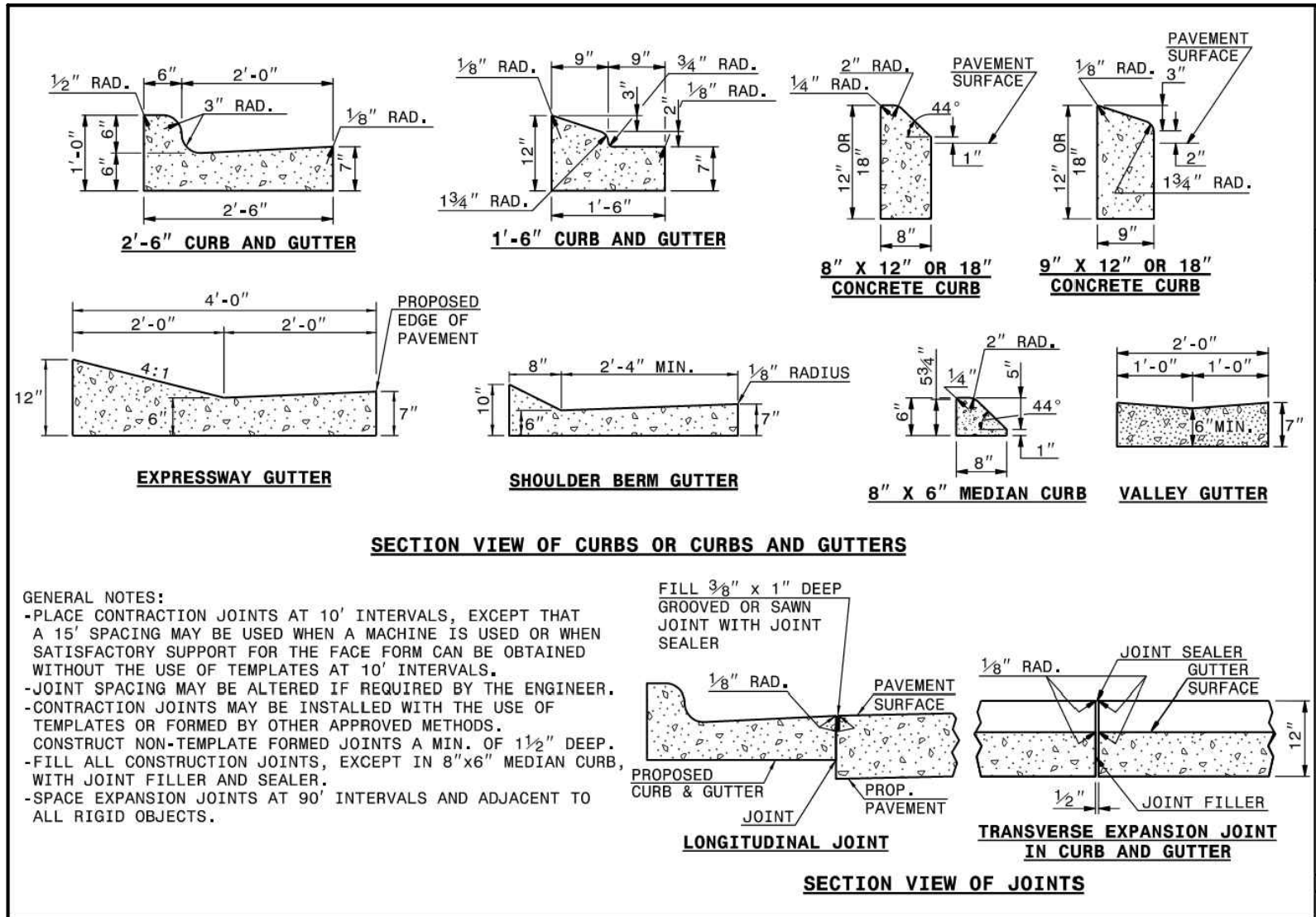
Designed by DEP LIGHTING SOLUTIONS

Reviewed by N. Johnson Scale 1" = 100'

Date 07/19/2022 Size "Arch D"

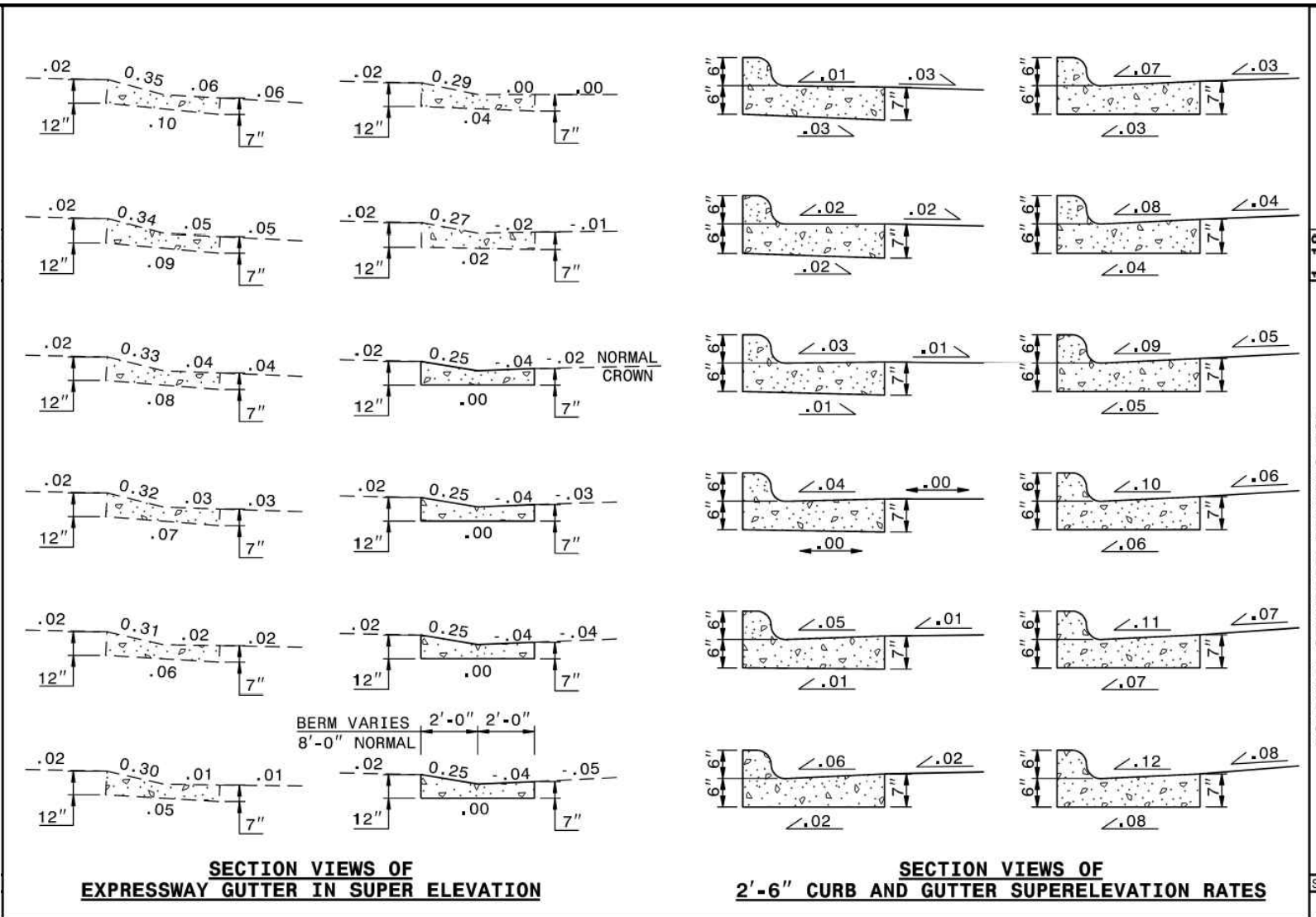
Description LED 50w & 150w Roadway

Drawing No. 21-0394B Sht. 1 OF 1



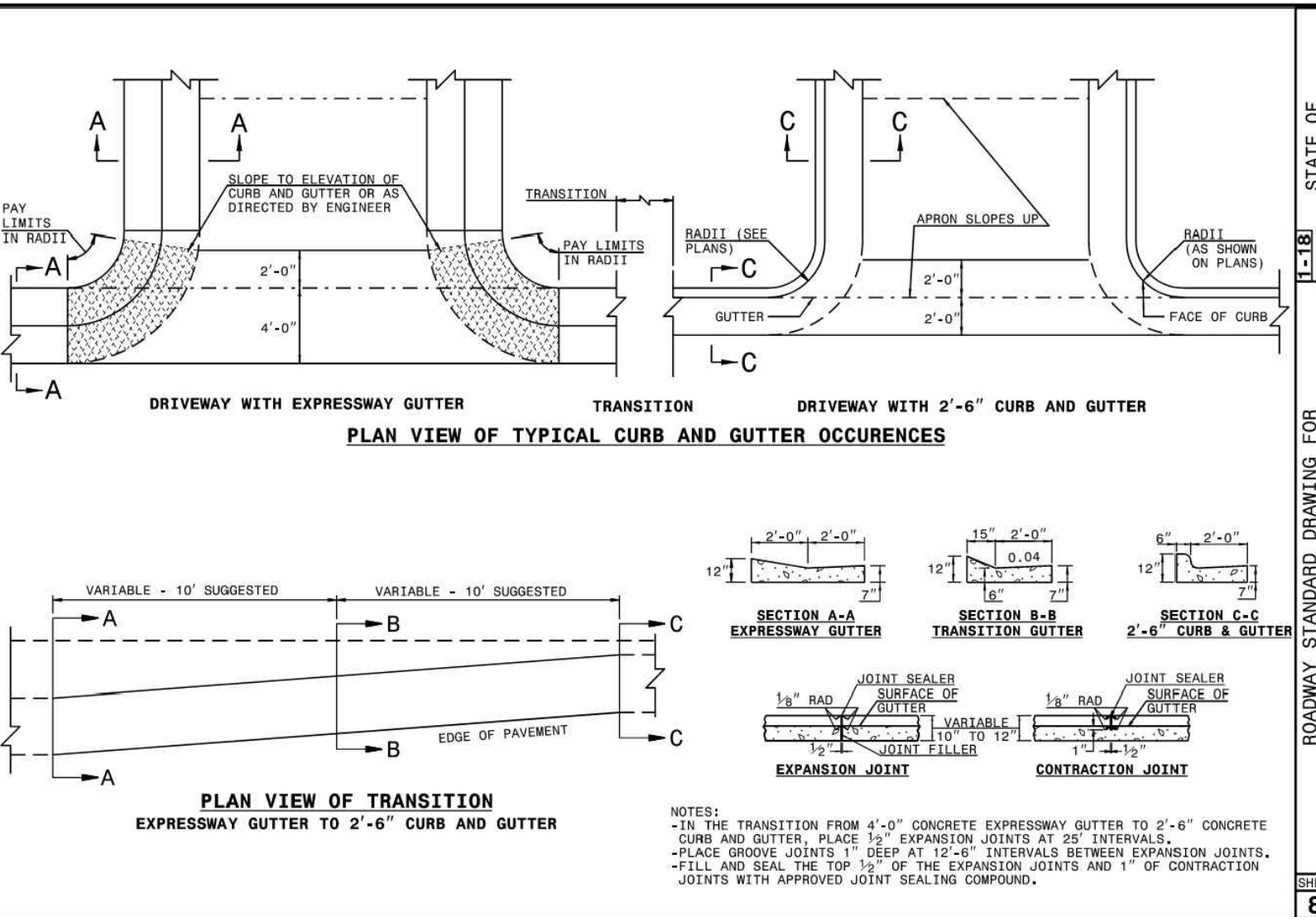
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AND CURB & GUTTER

SHEET 1 OF 3  
848.01



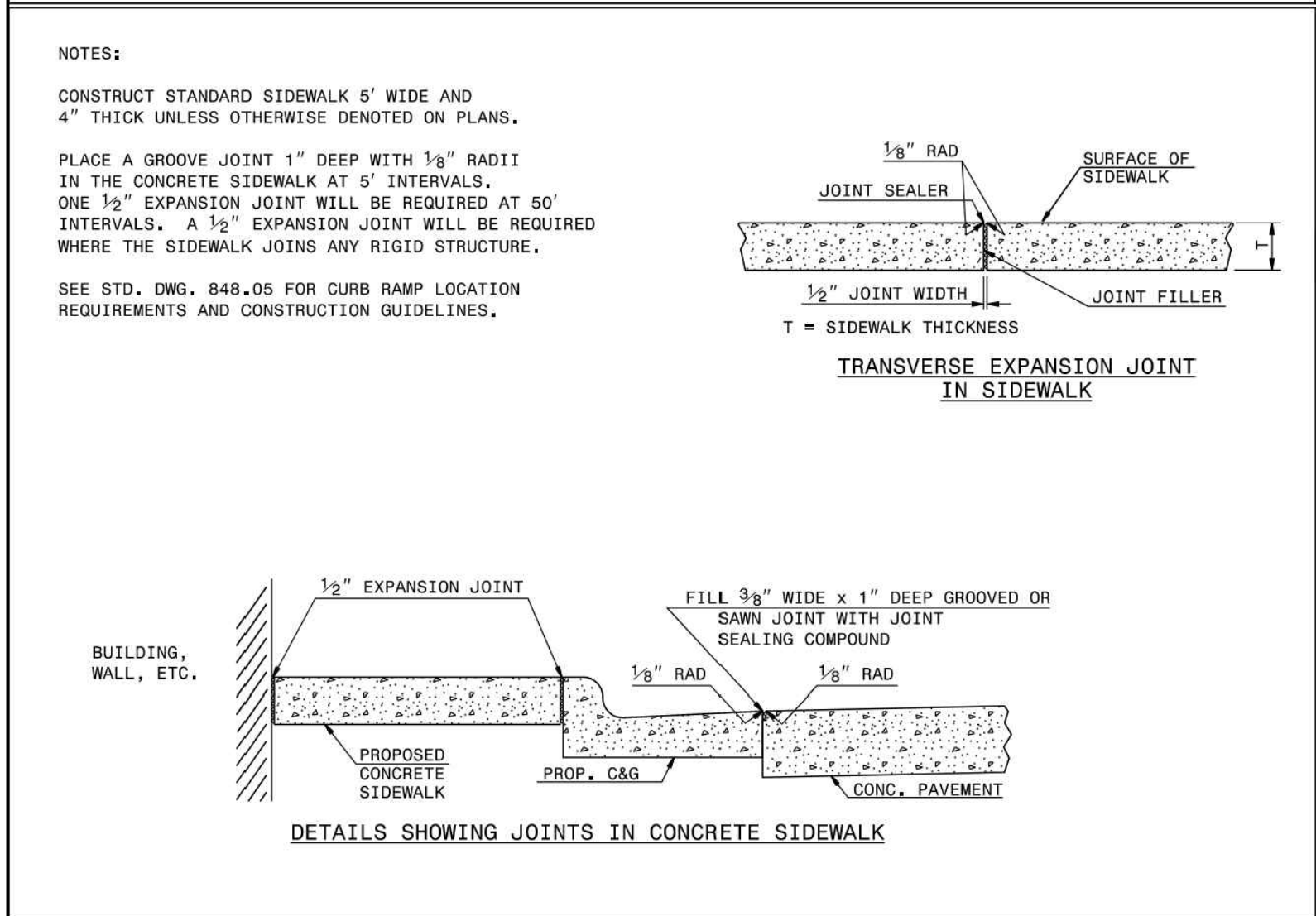
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AND CURB & GUTTER

SHEET 2 OF 3  
848.01



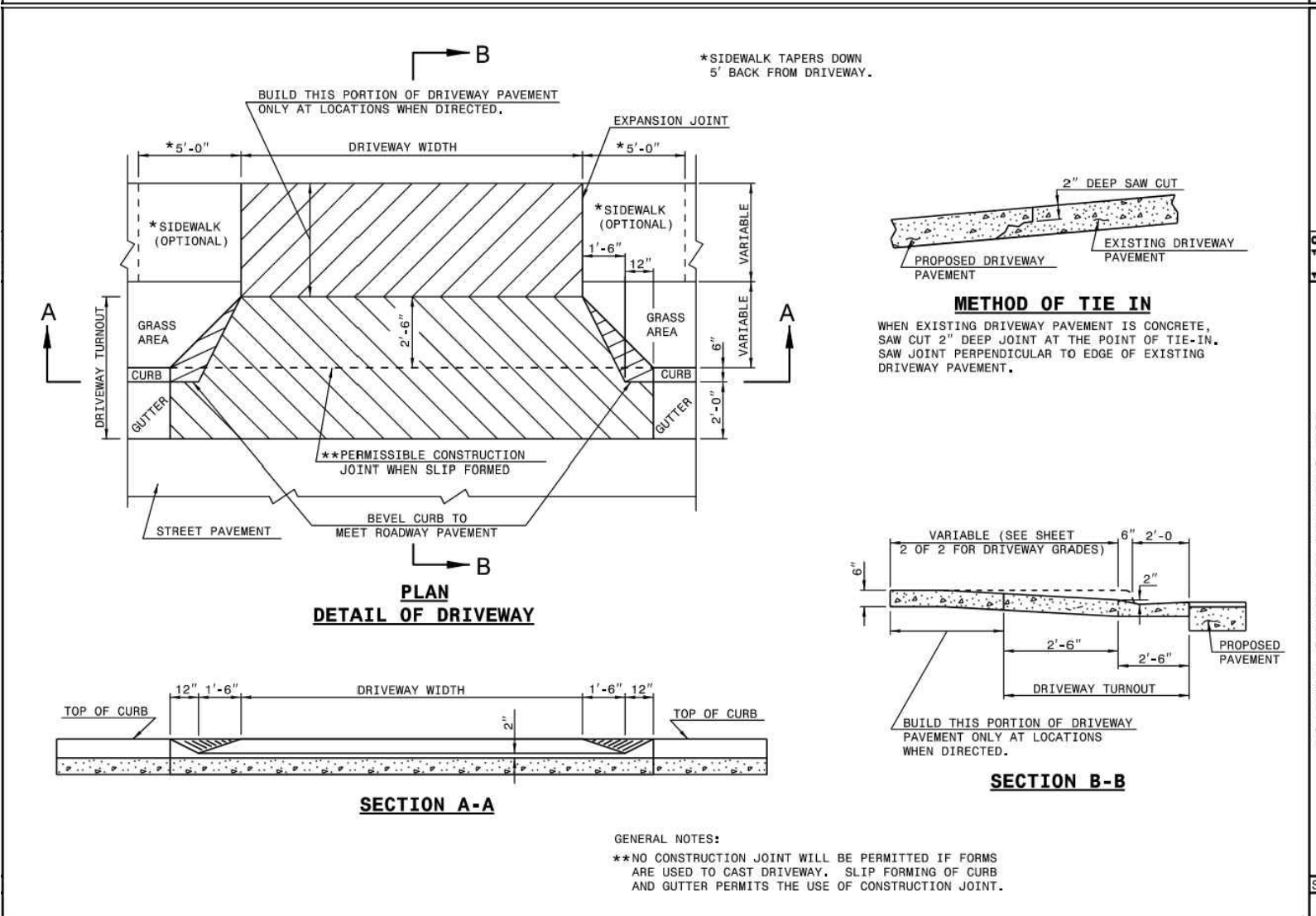
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SHEET 3 OF 3  
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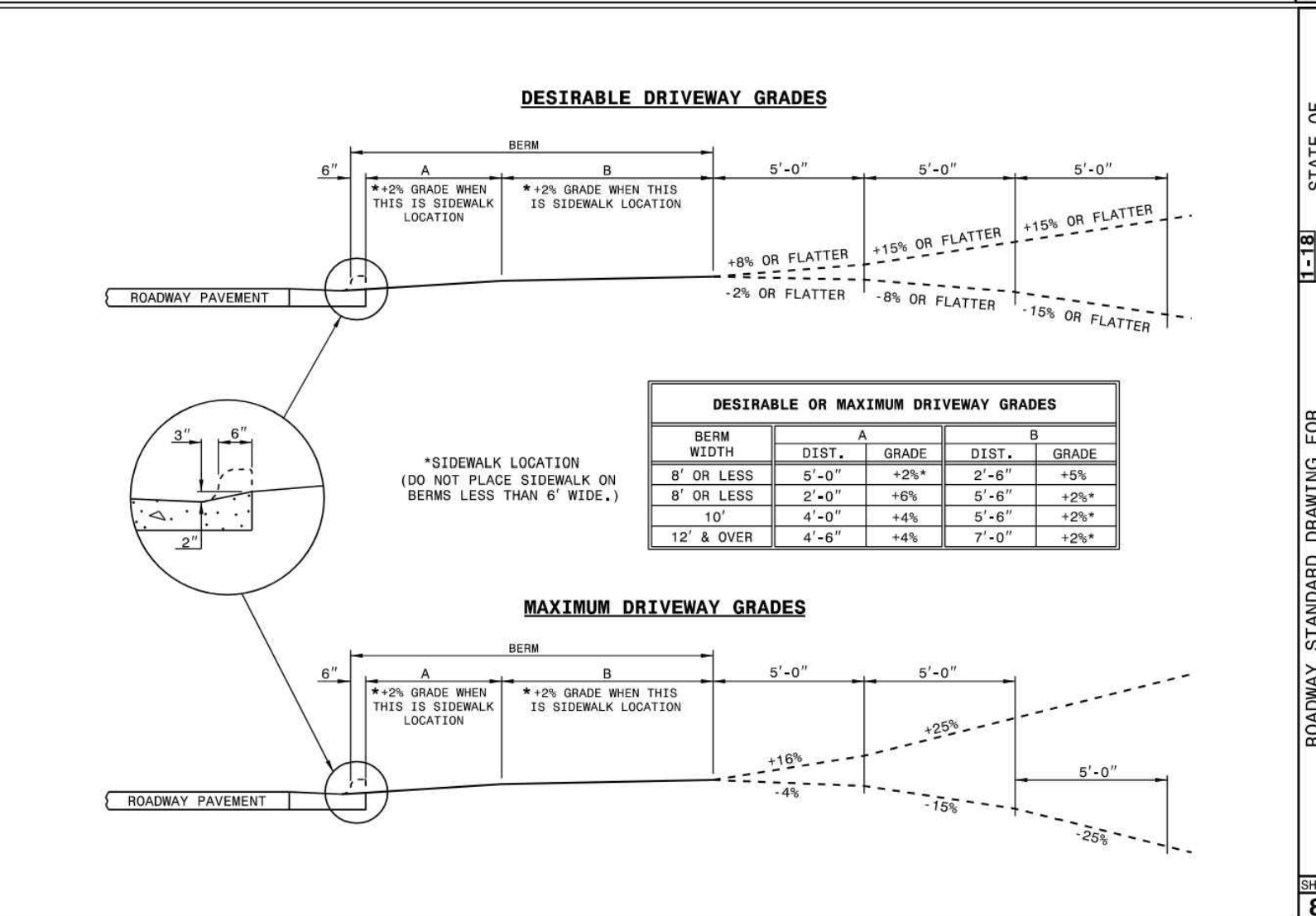
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SHEET 1 OF 1  
848.01



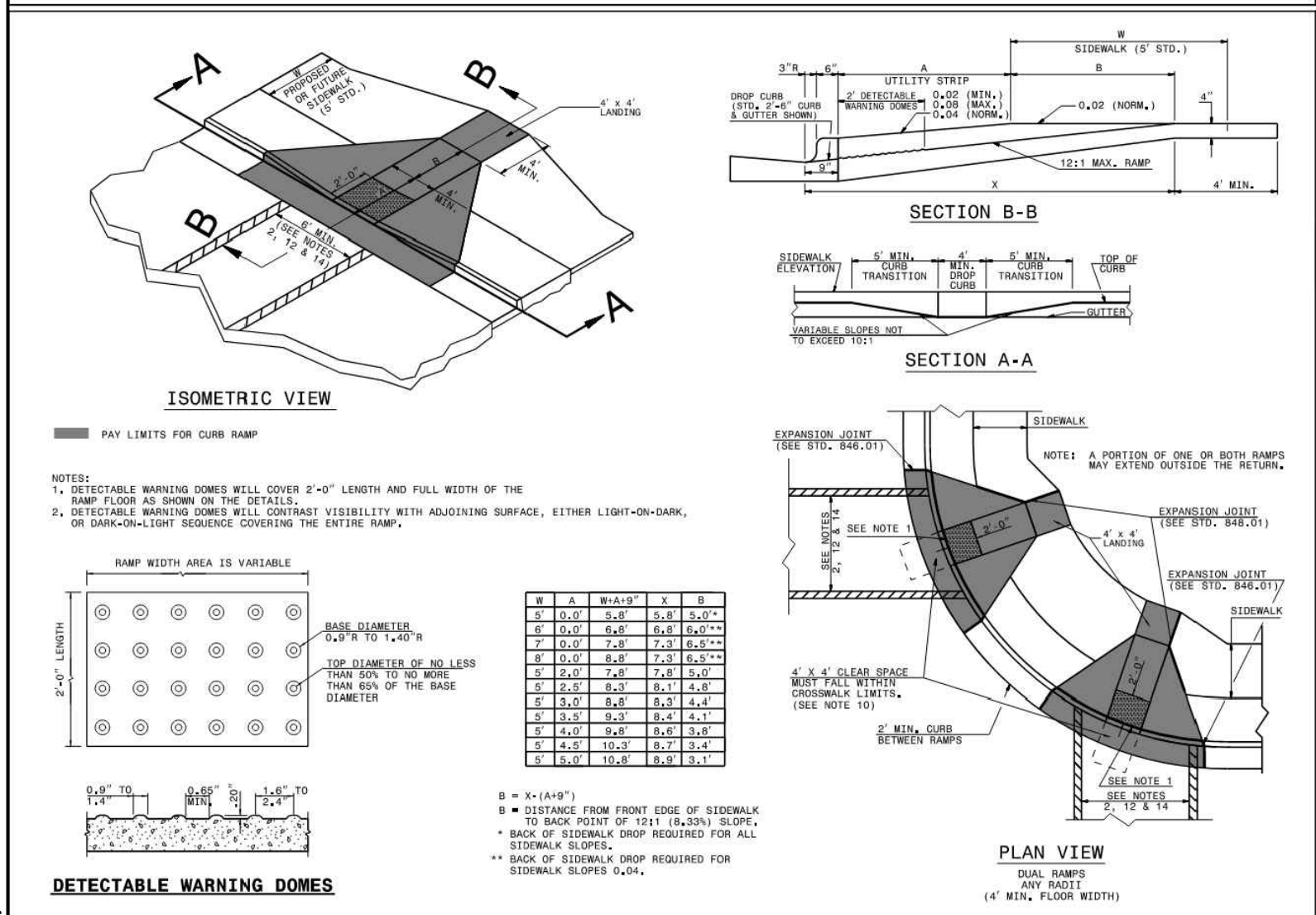
ROADWAY STANDARD DRAWING FOR  
DRIVEWAY TURNOUT  
DRIP CURB TYPE

SHEET 1 OF 2  
848.03



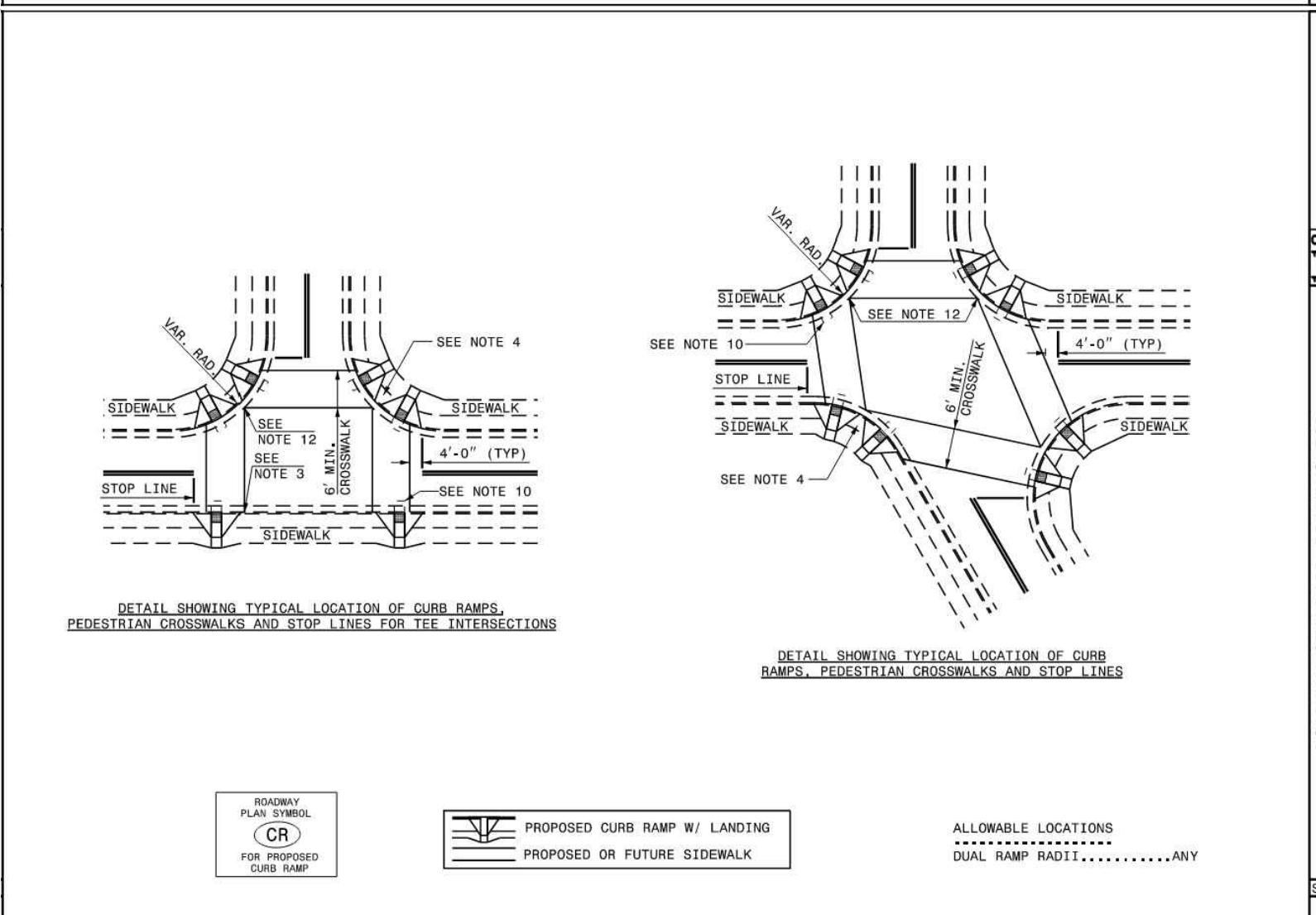
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DRIVEWAY TURNOUT

SHEET 2 OF 2  
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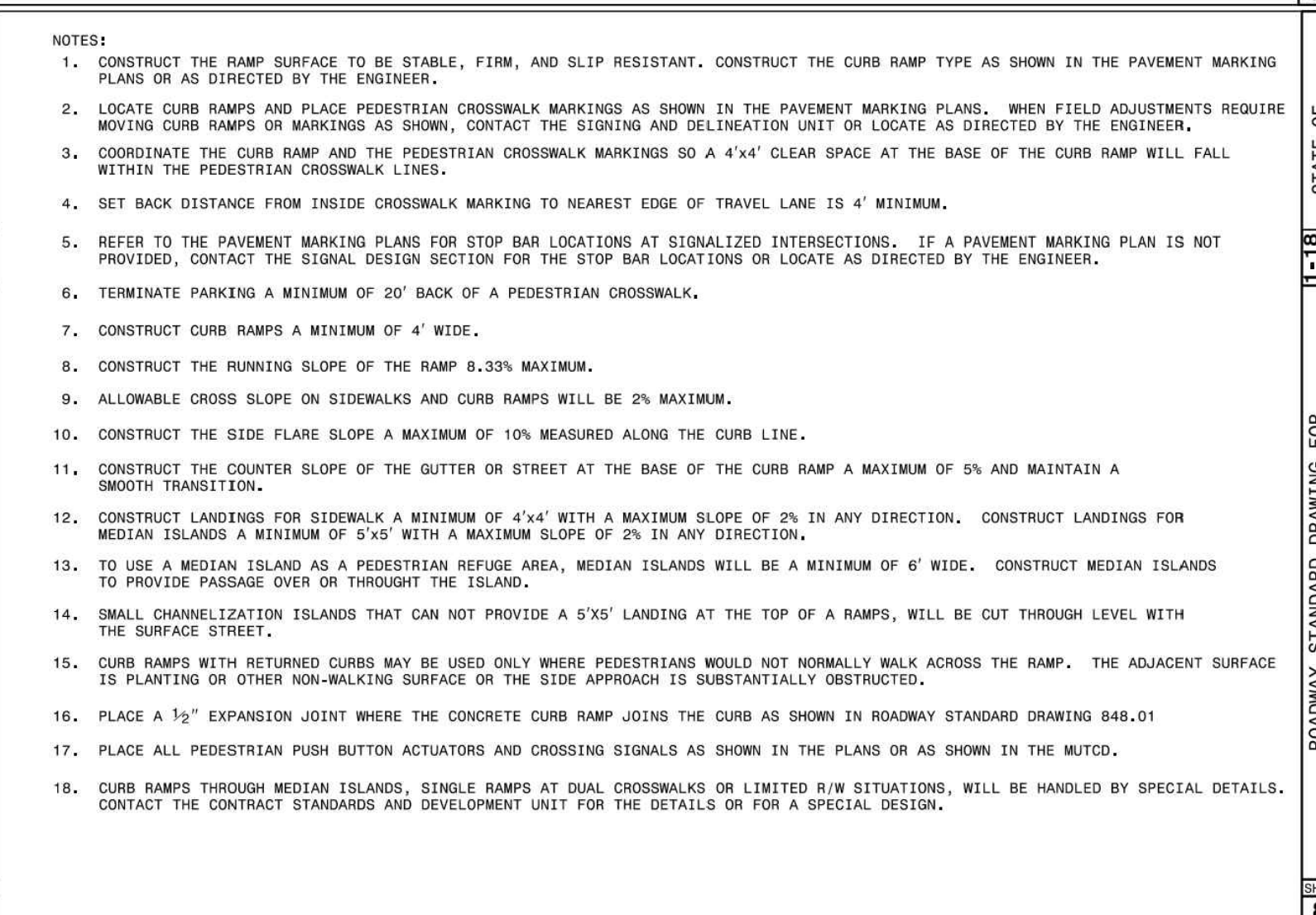
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CURB RAMP AND GUTTER

SHEET 1 OF 3  
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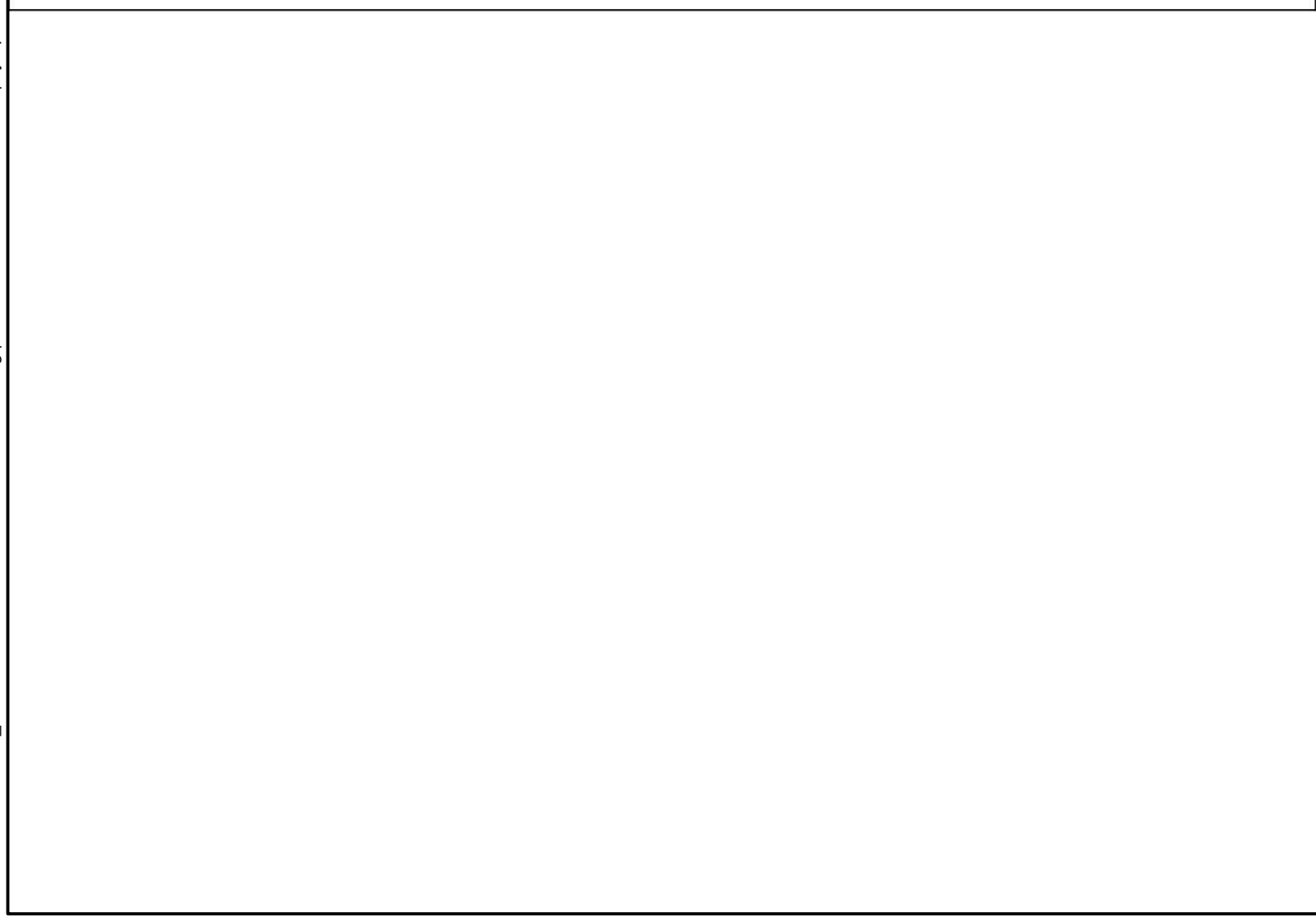
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CURB RAMP  
PROPOSED CURB AND GUTTER

SHEET 2 OF 3  
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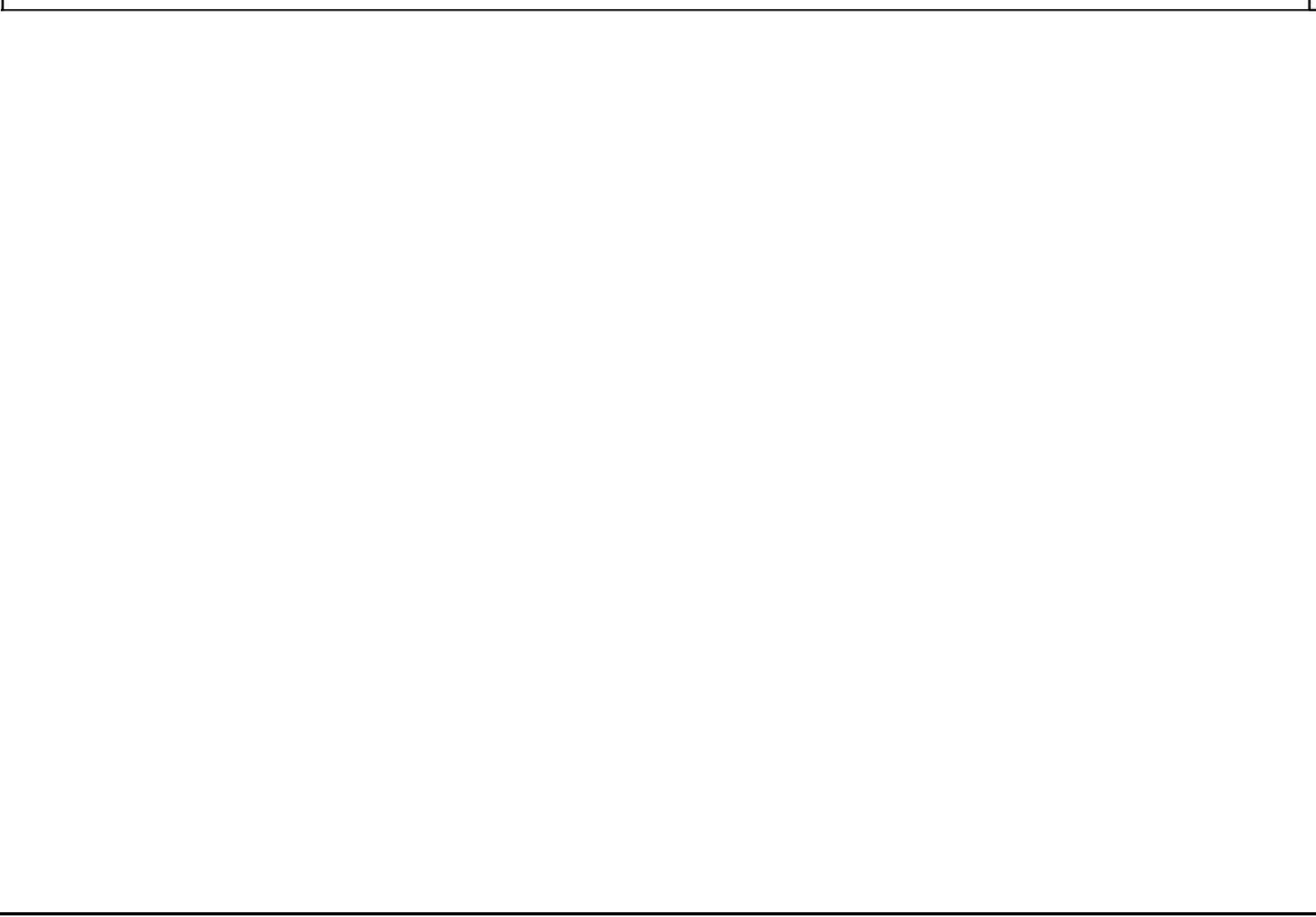
ROADWAY STANDARD DRAWING FOR  
CURB RAMPS  
NOTES

SHEET 3 OF 3  
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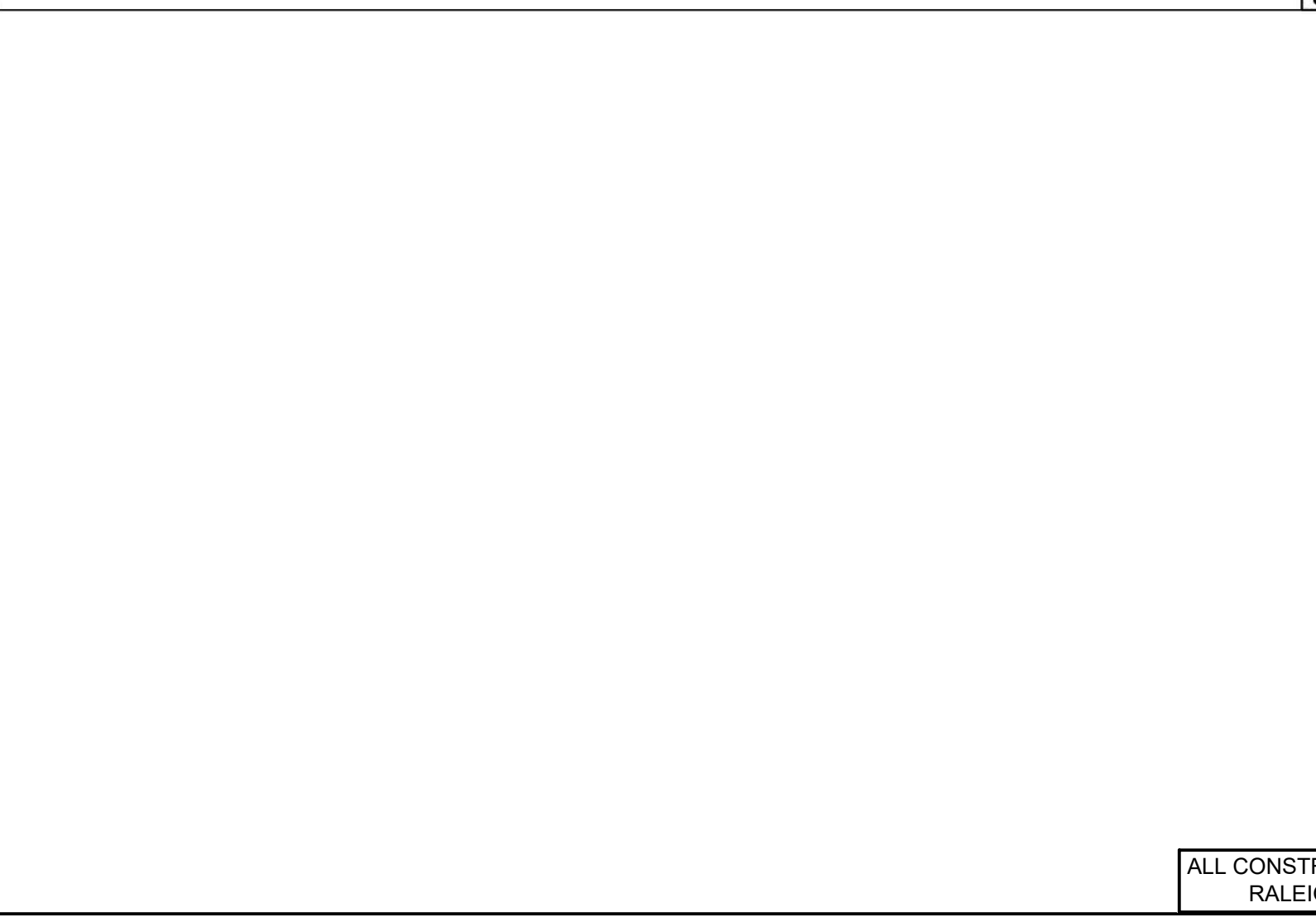
ROADWAY STANDARD DRAWING FOR  
CURB RAMP AND GUTTER

SHEET 1 OF 3  
848.05



ROADWAY STANDARD DRAWING FOR  
CURB RAMP  
PROPOSED CURB AND GUTTER

SHEET 2 OF 3  
848.05



ROADWAY STANDARD DRAWING FOR  
CURB RAMPS  
NOTES

SHEET 3 OF 3  
848.05



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DRAWN BY: R. WINGATE  
DESIGNED BY: P. BARBEAU  
CHECKED BY: P. BARBEAU  
SCALE: AS SHOWN

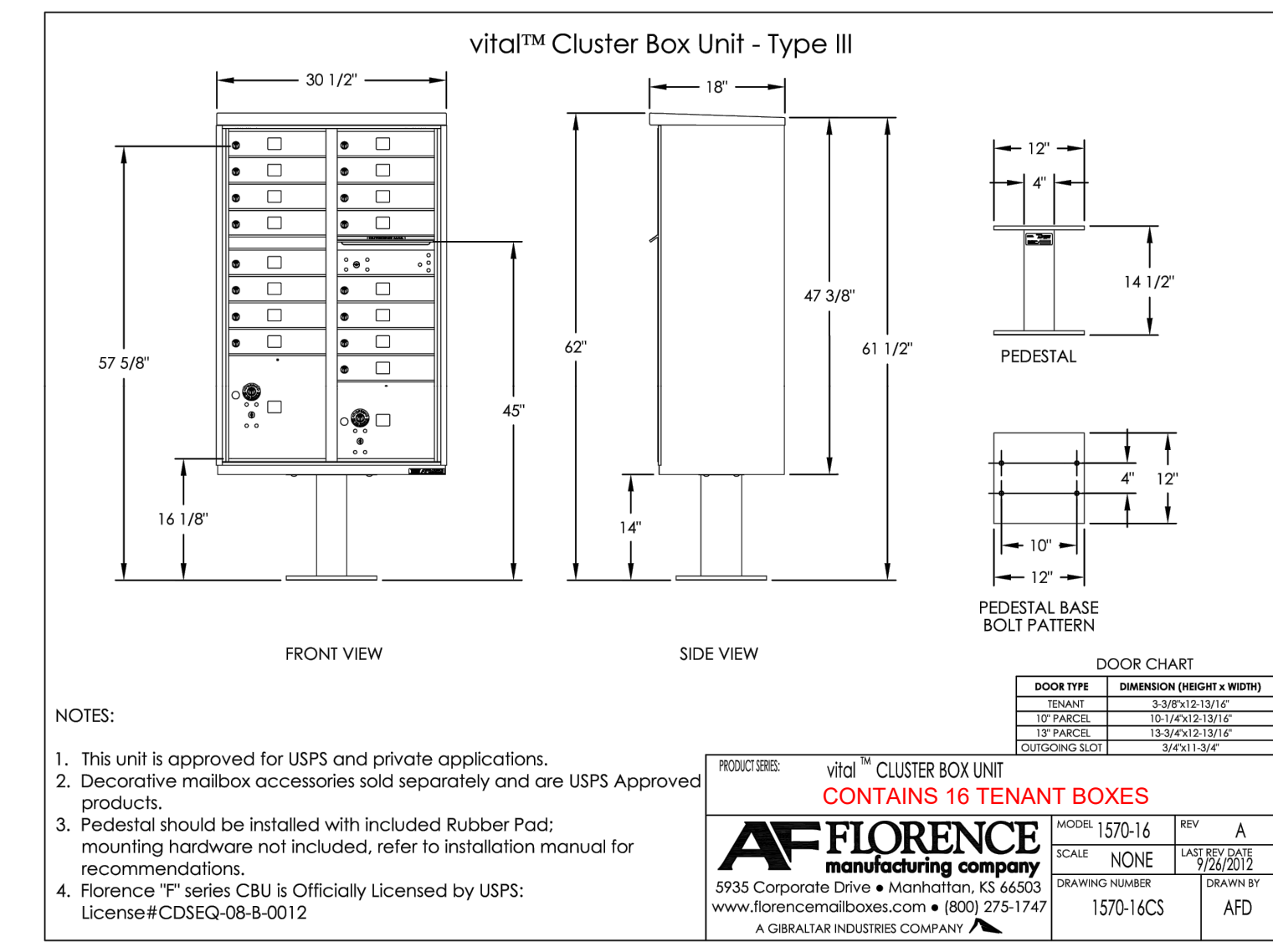
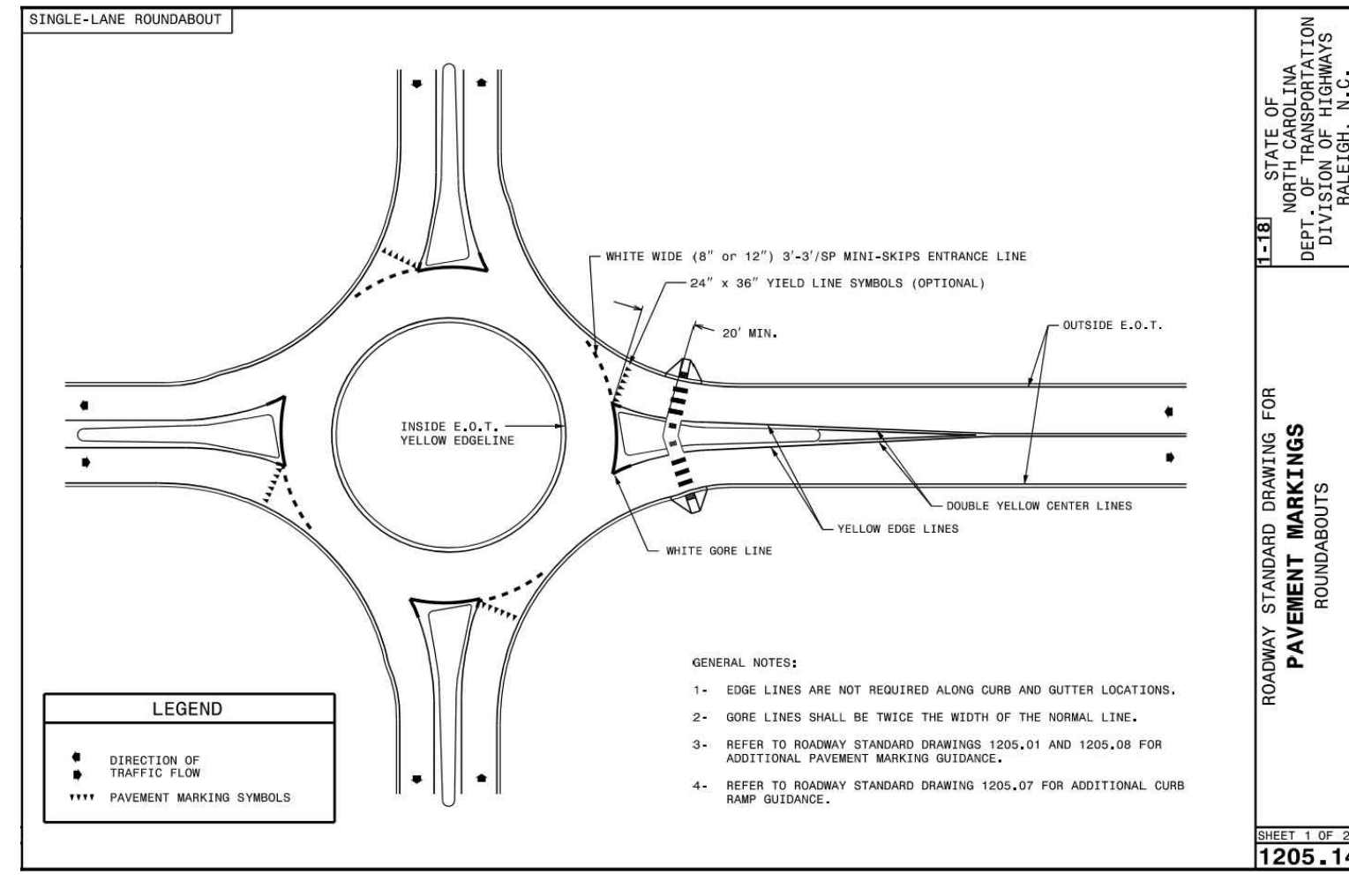
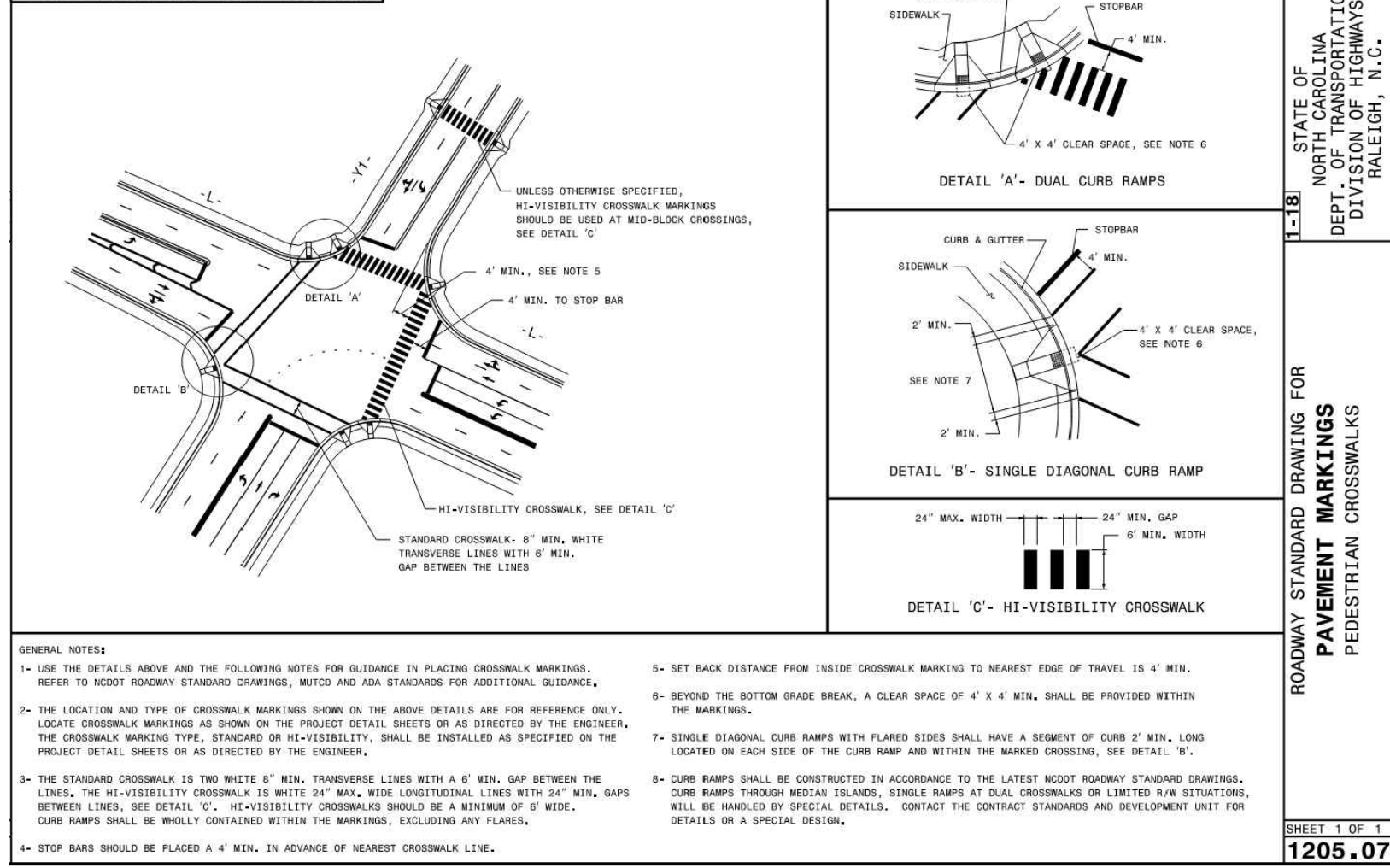
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NORTH CAROLINA LICENSE NO. C-1652  
ROLESVILLE CROSSING - CD 21-08  
WAKE COUNTY - NORTH CAROLINA  
SITE DETAILS

REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
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REVISIONS TO APPROVED PLANS	01/02/2024

JOB NO. 43398  
SHEET NO. C7.0

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CROSSWALK PLACEMENT GUIDANCE

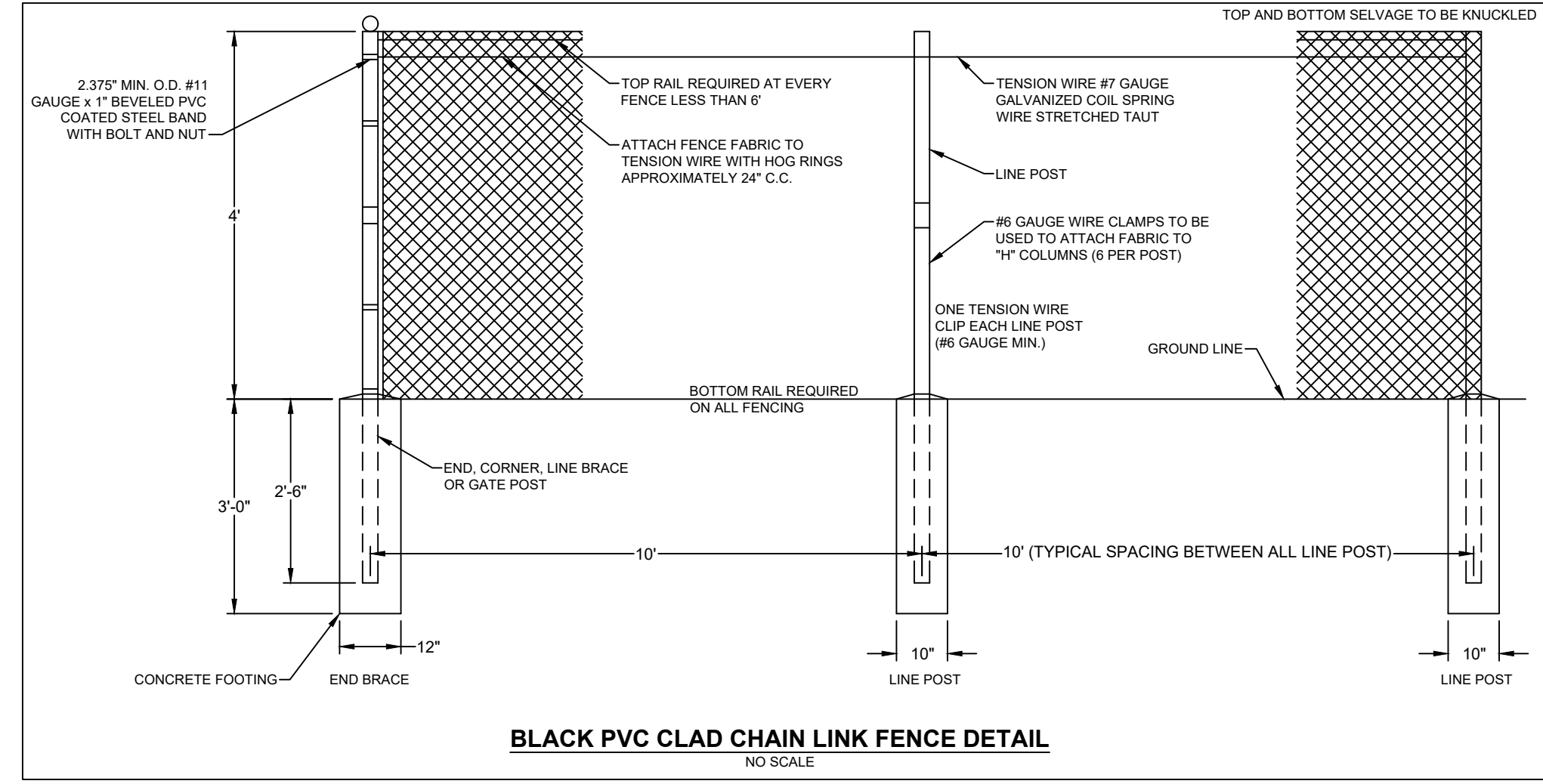
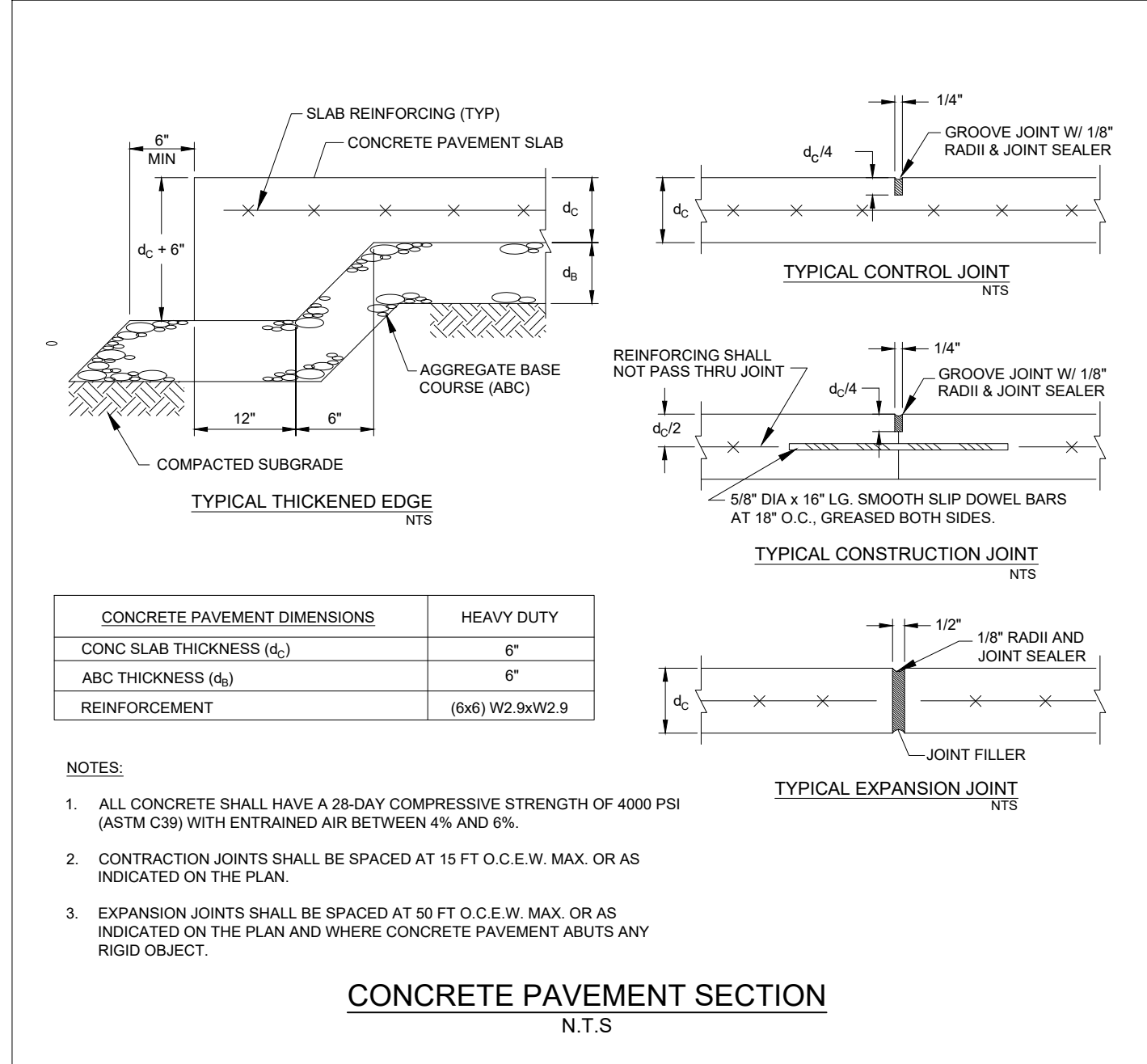
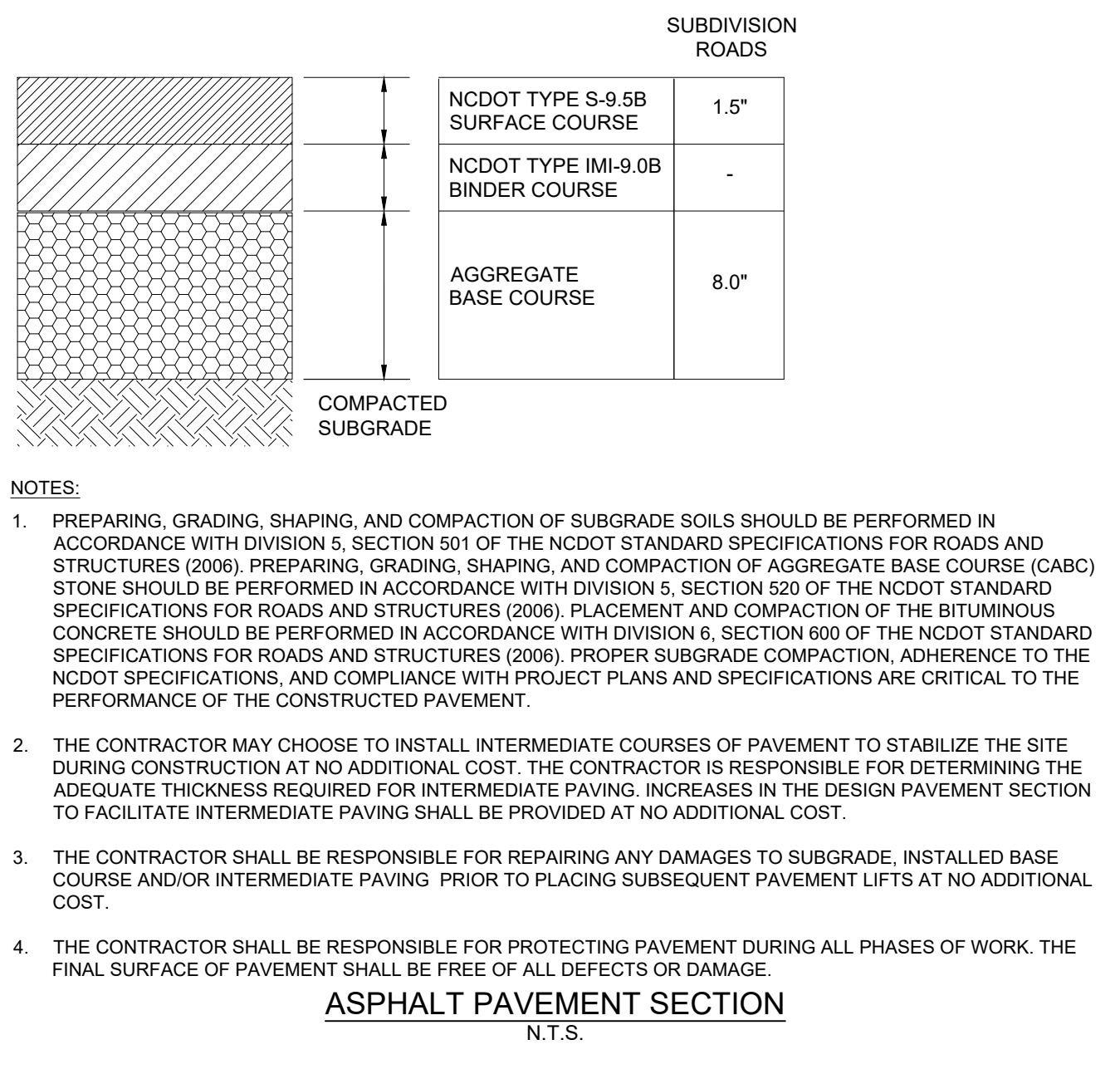
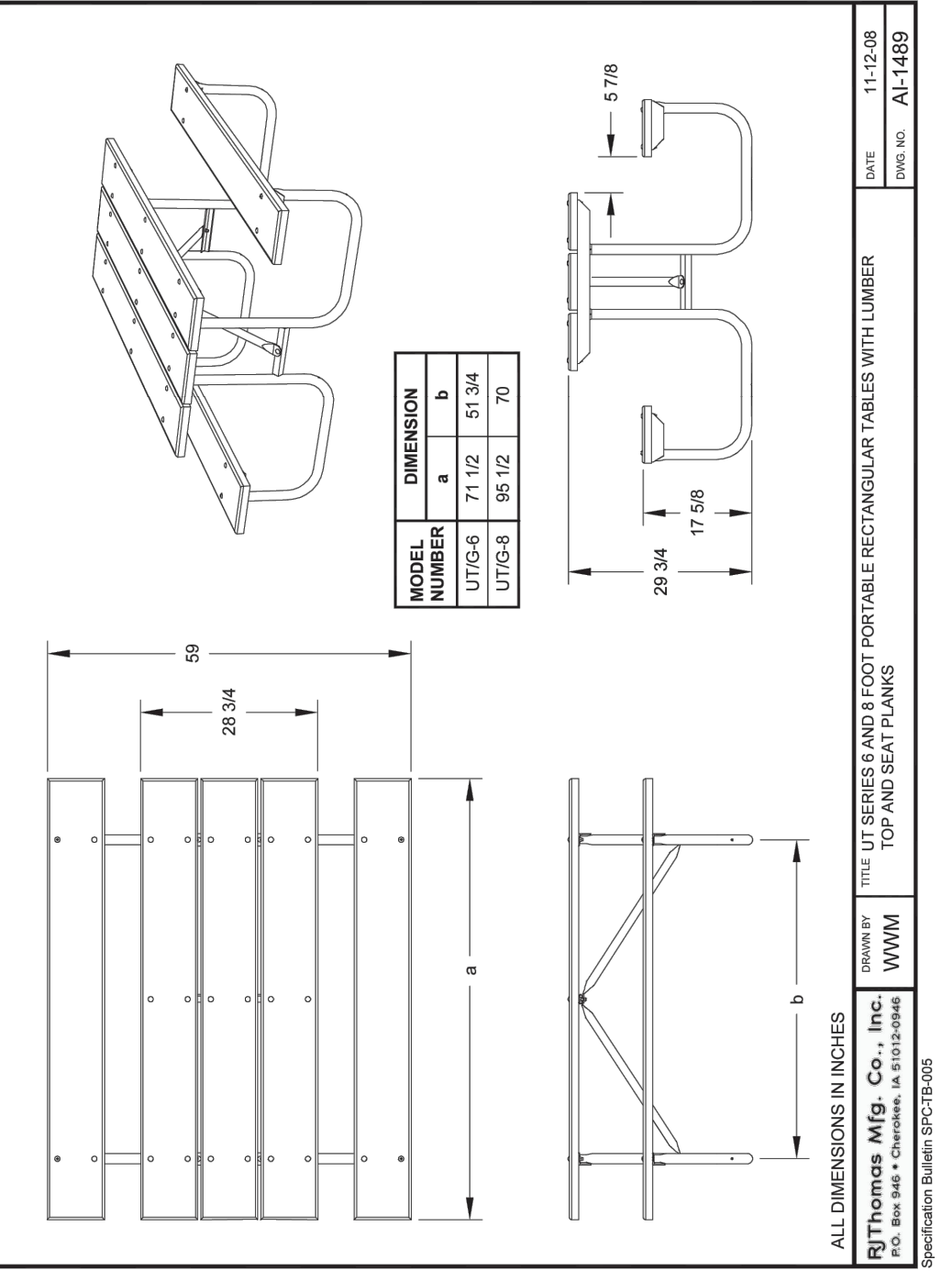
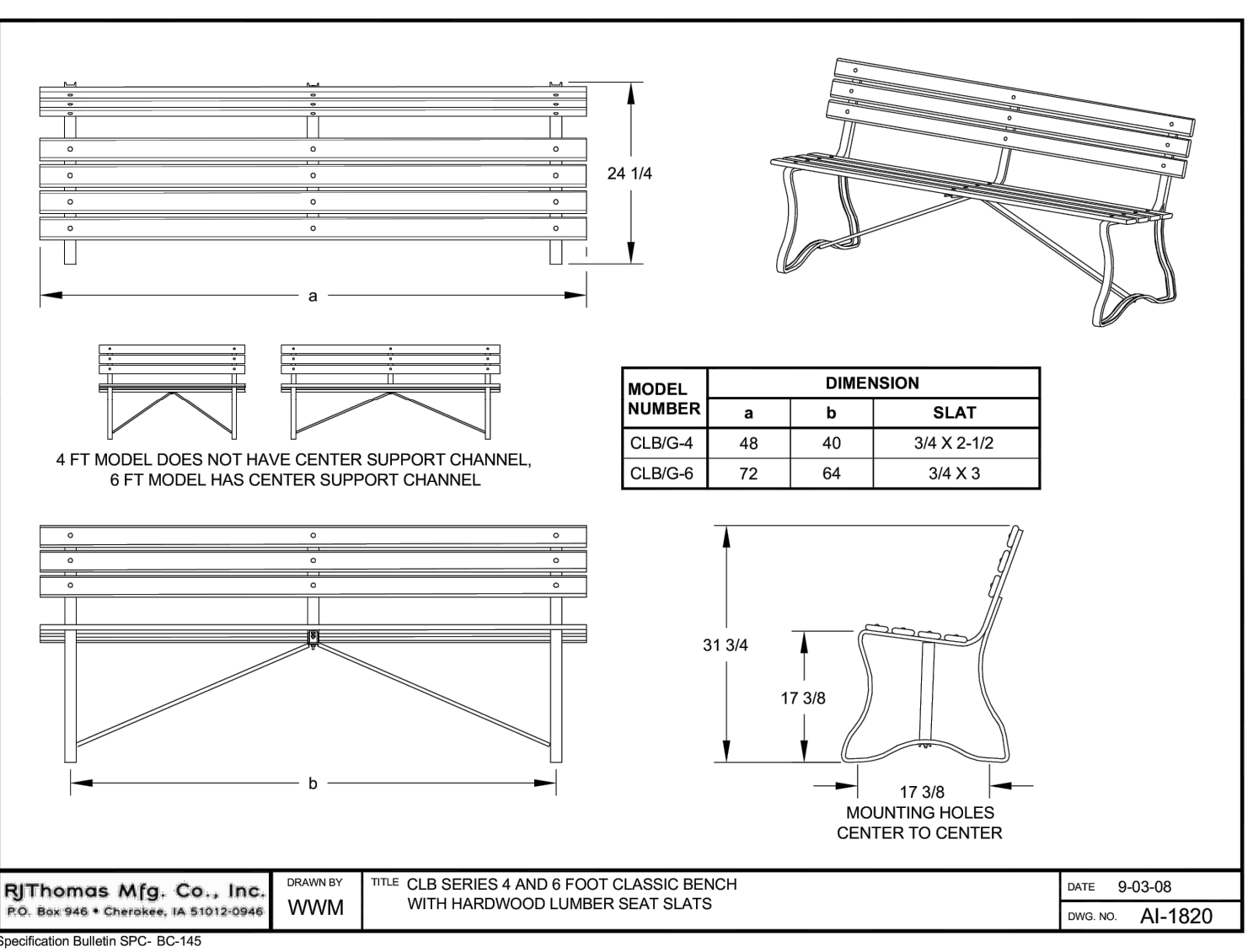
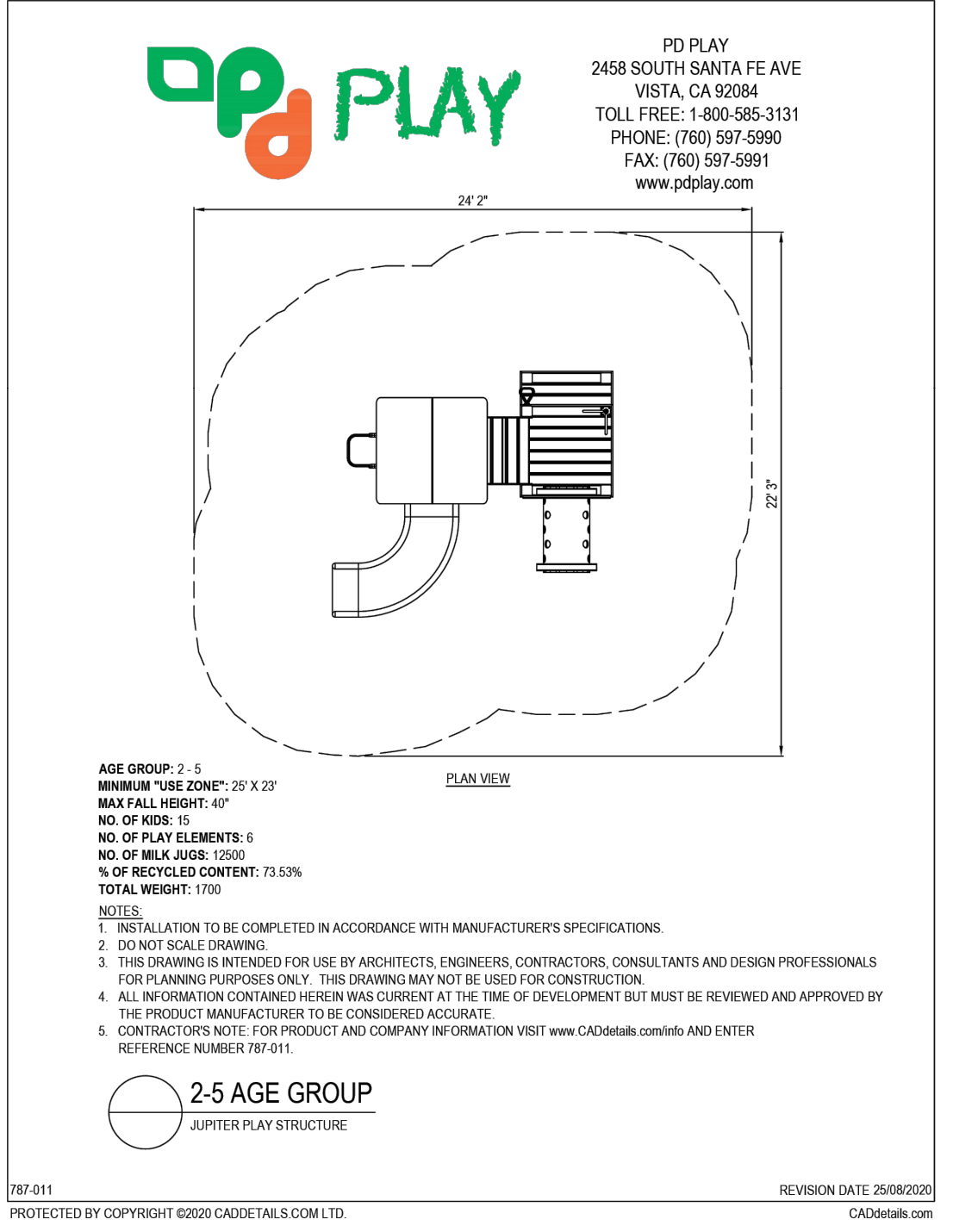
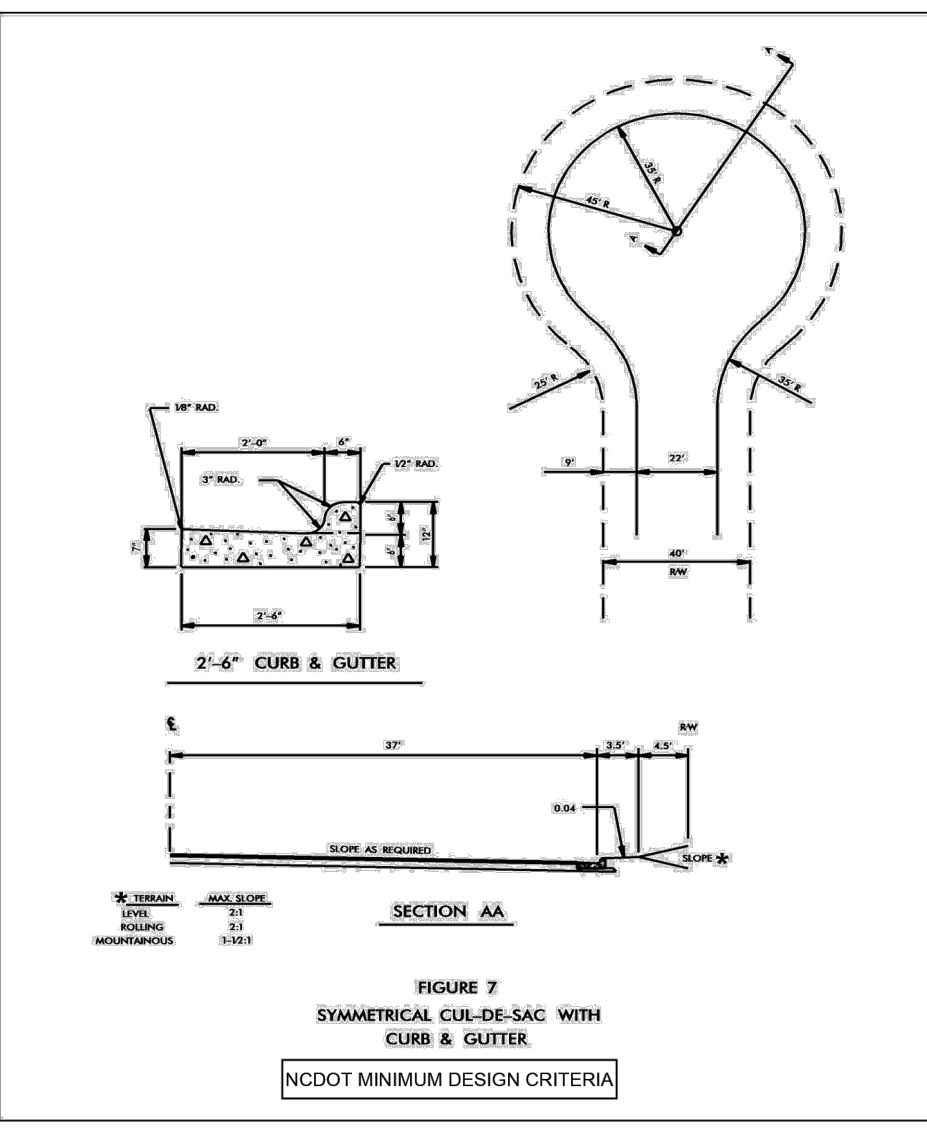


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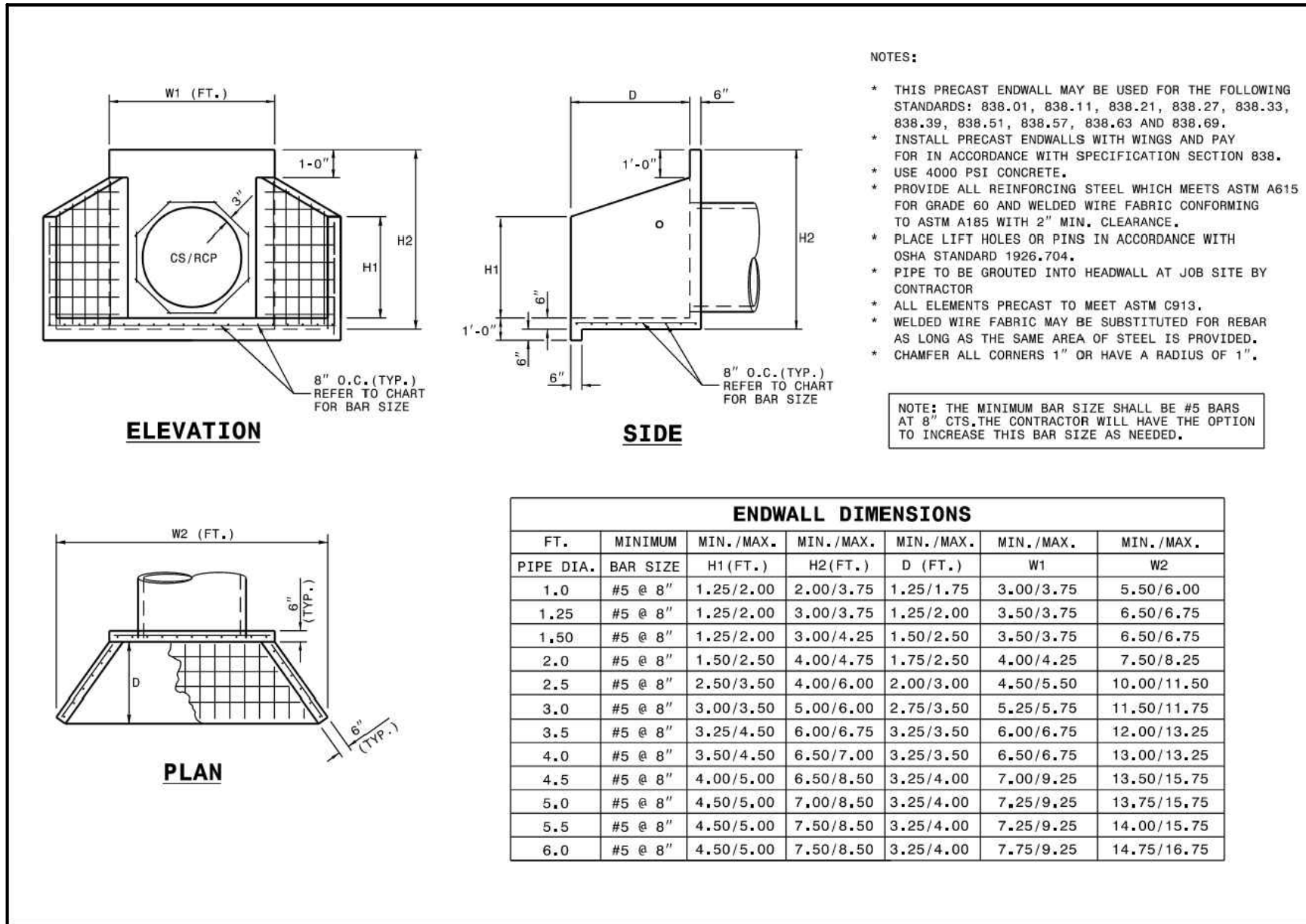
SITE DETAILS

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SHEET NO. C7.1

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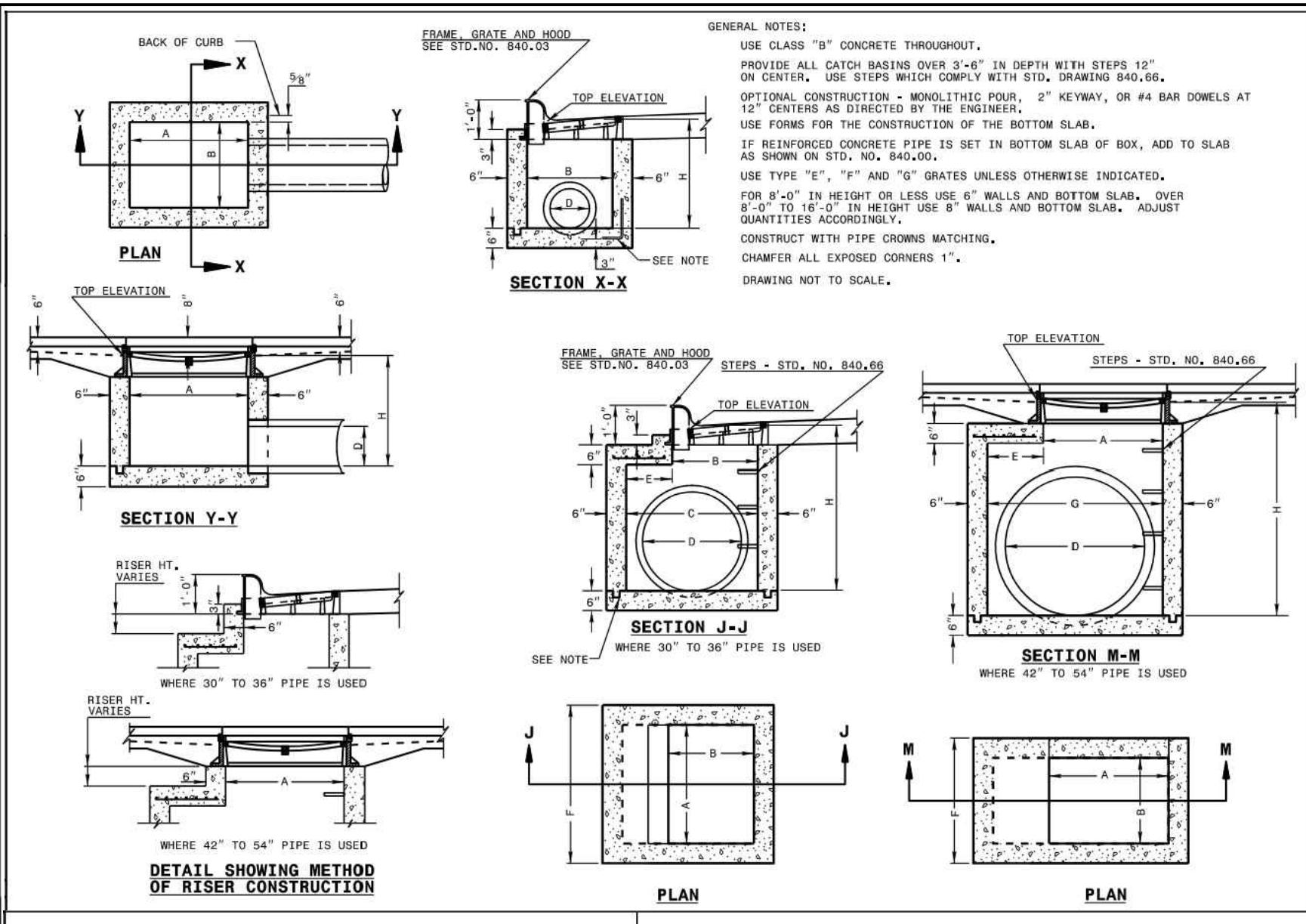




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ROADWAY STANDARD DRAWING FOR  
**PRECAST CONCRETE ENDWALL**  
FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

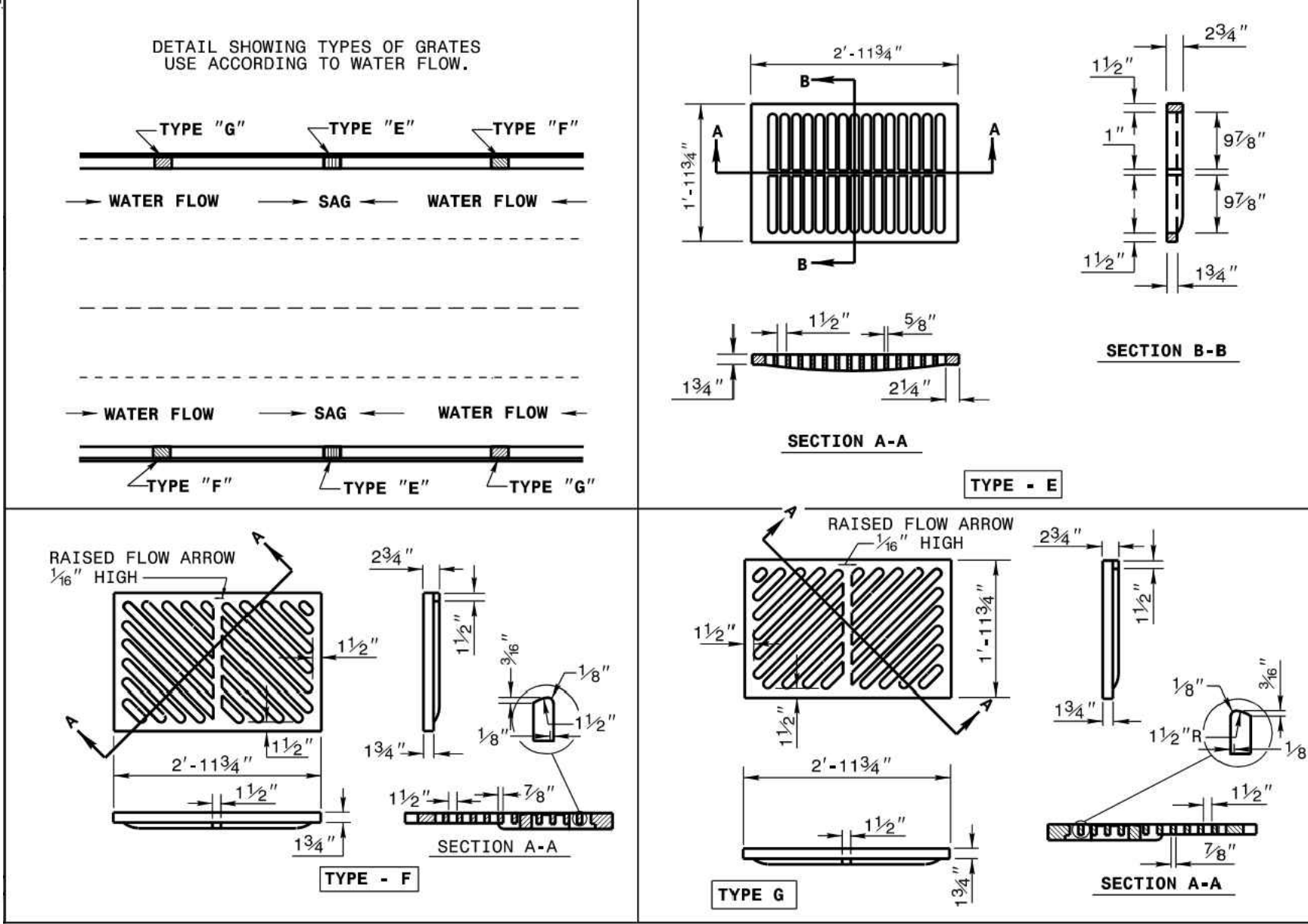
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**838.80**



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ROADWAY STANDARD DRAWING FOR  
**CONCRETE CATCH BASIN**  
12" THRU 54" PIPE

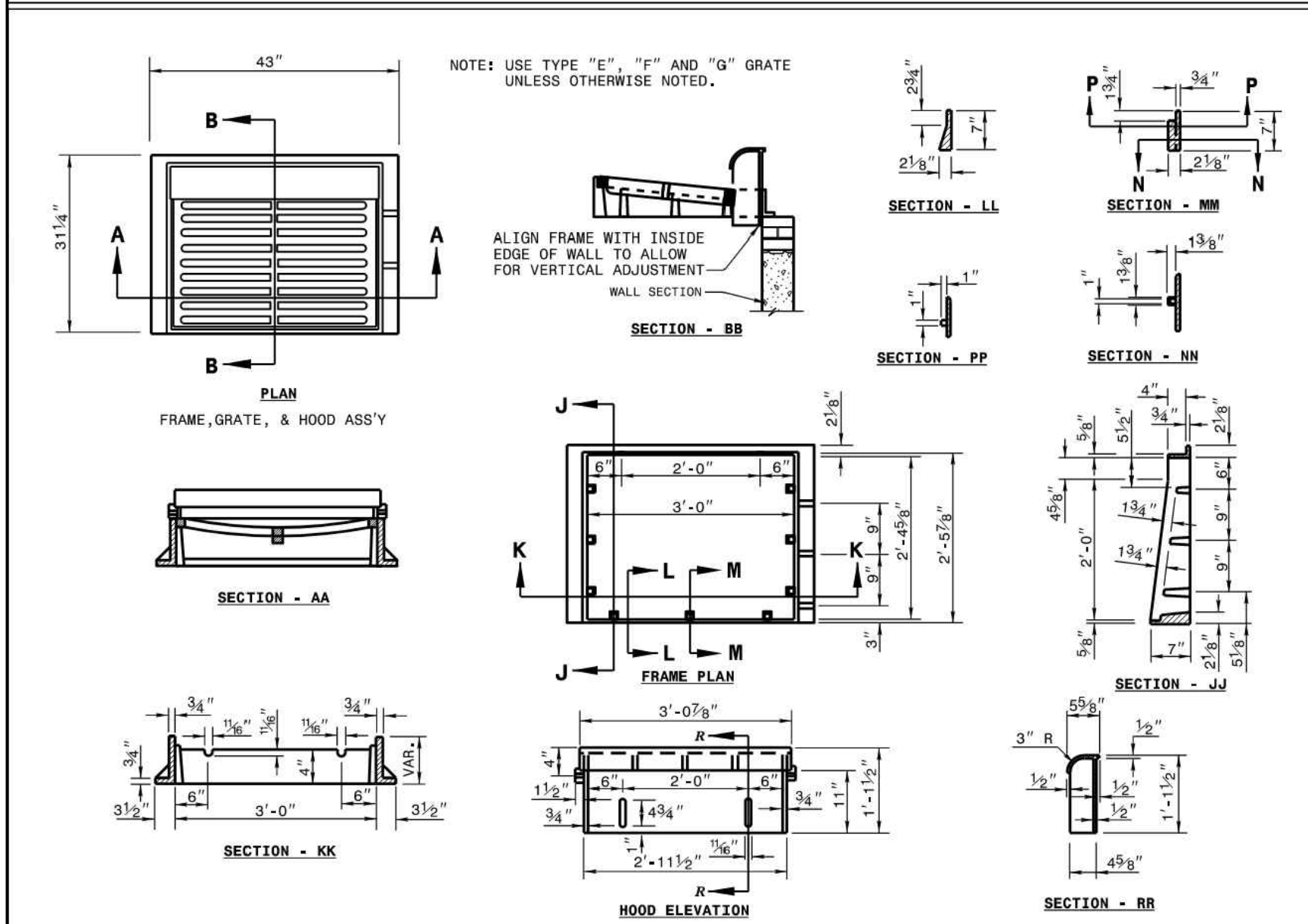
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ROADWAY STANDARD DRAWING FOR  
**FRAME, GRATES, AND HOOD**  
FOR USE ON STANDARD CATCH BASIN

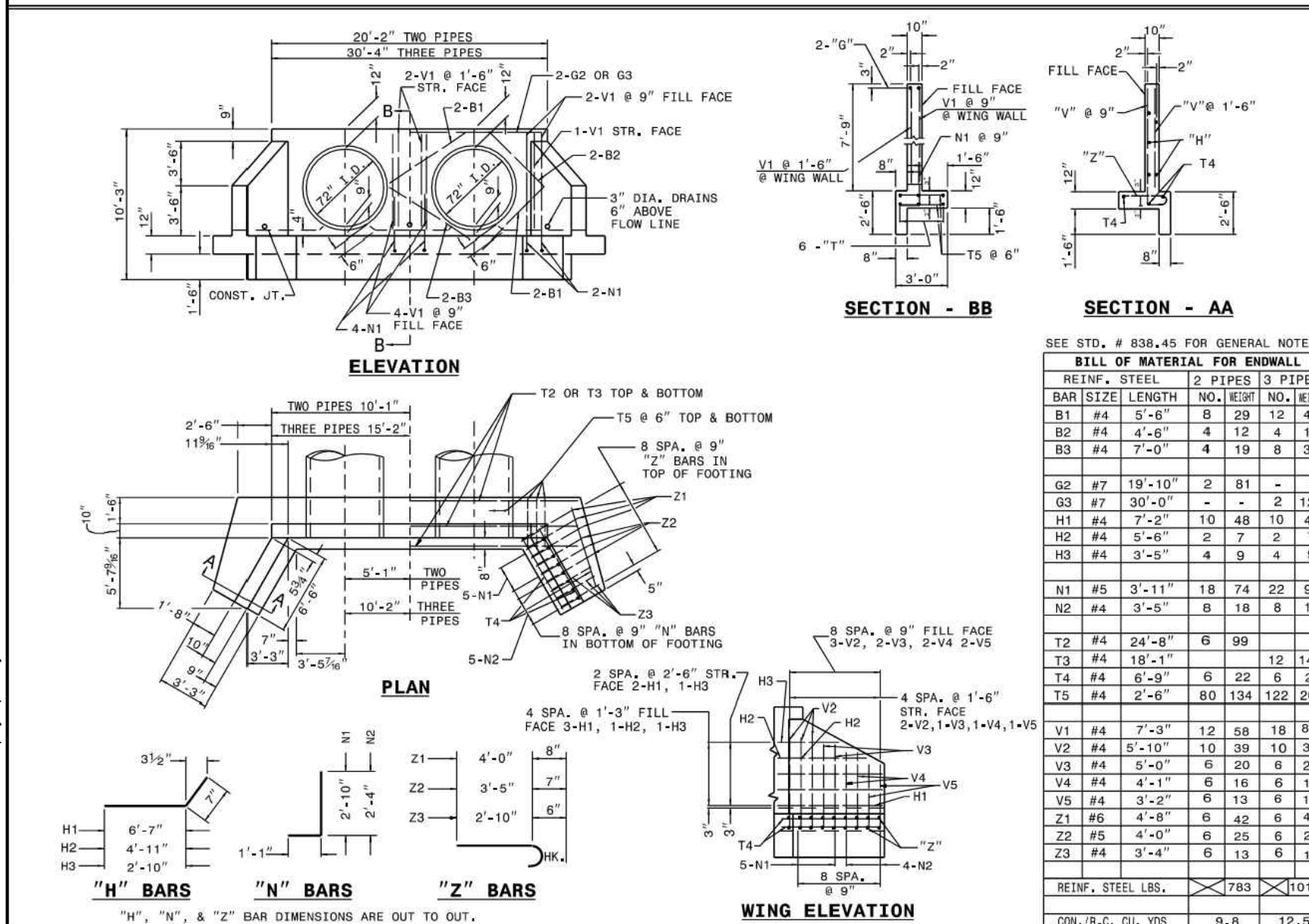
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FOR USE ON STANDARD CATCH BASIN

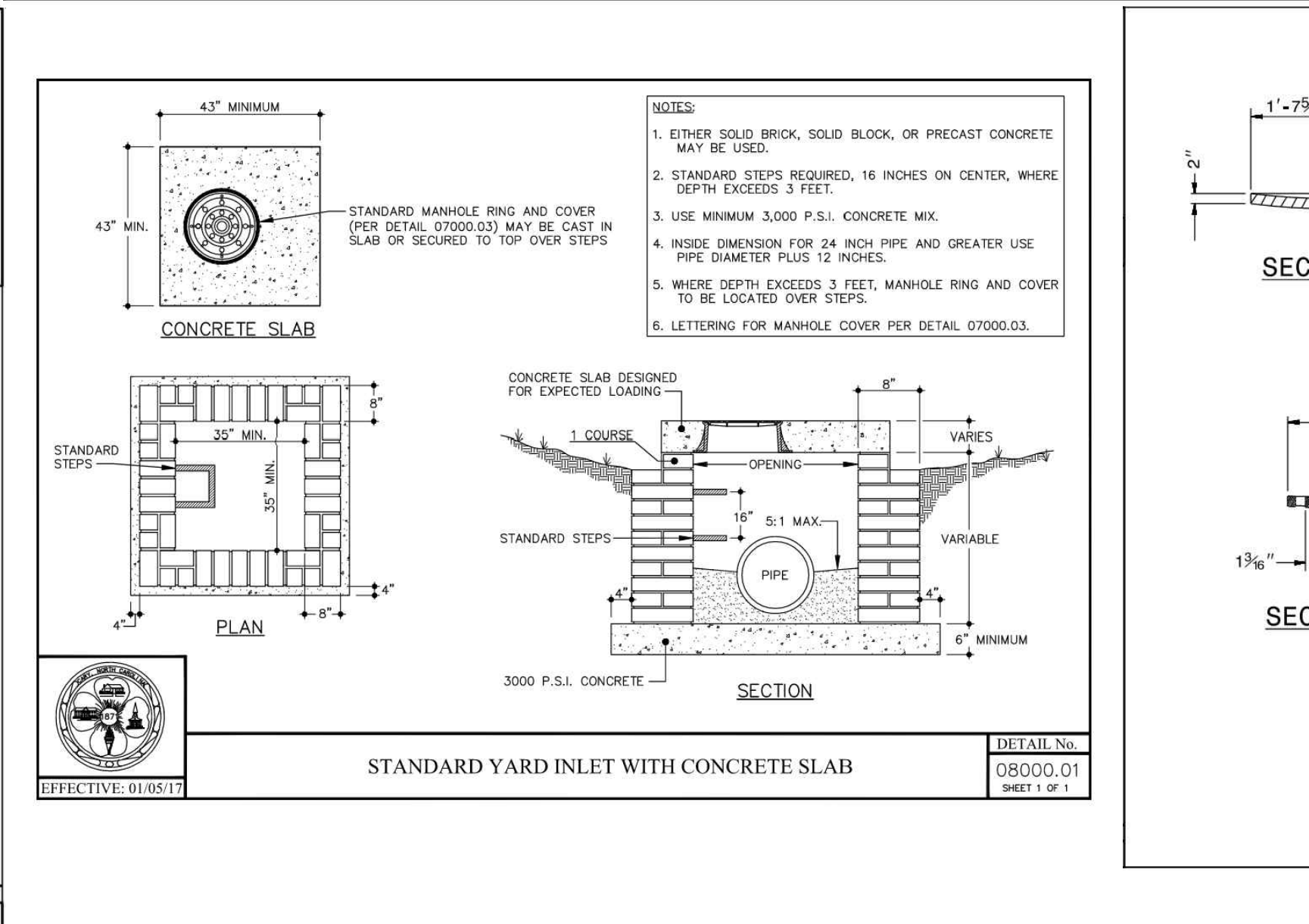
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**840.03**



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ROADWAY STANDARD DRAWING FOR  
**REINFORCED CONCRETE ENDWALL**  
FOR DOUBLE AND TRIPLE 72" PIPE 90° SKEW

SHEET 1 OF 2  
**838.40**



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ROADWAY STANDARD DRAWING FOR  
**DROP INLET FRAME AND GRATES**  
FOR USE WITH STD. DWG.S 840.14 AND 840.15

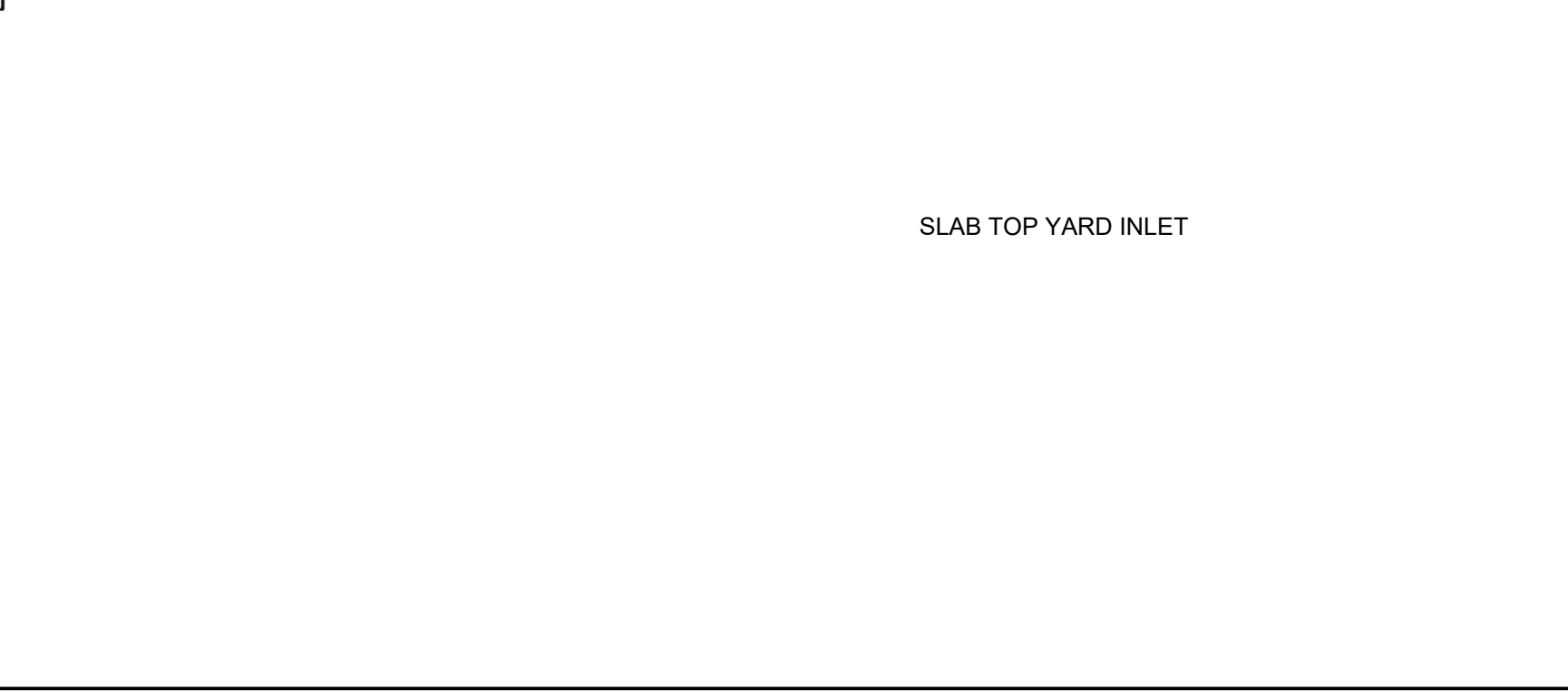
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**840.16**



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ROADWAY STANDARD DRAWING FOR  
**CONCRETE CATCH BASIN**  
12" THRU 54" PIPE

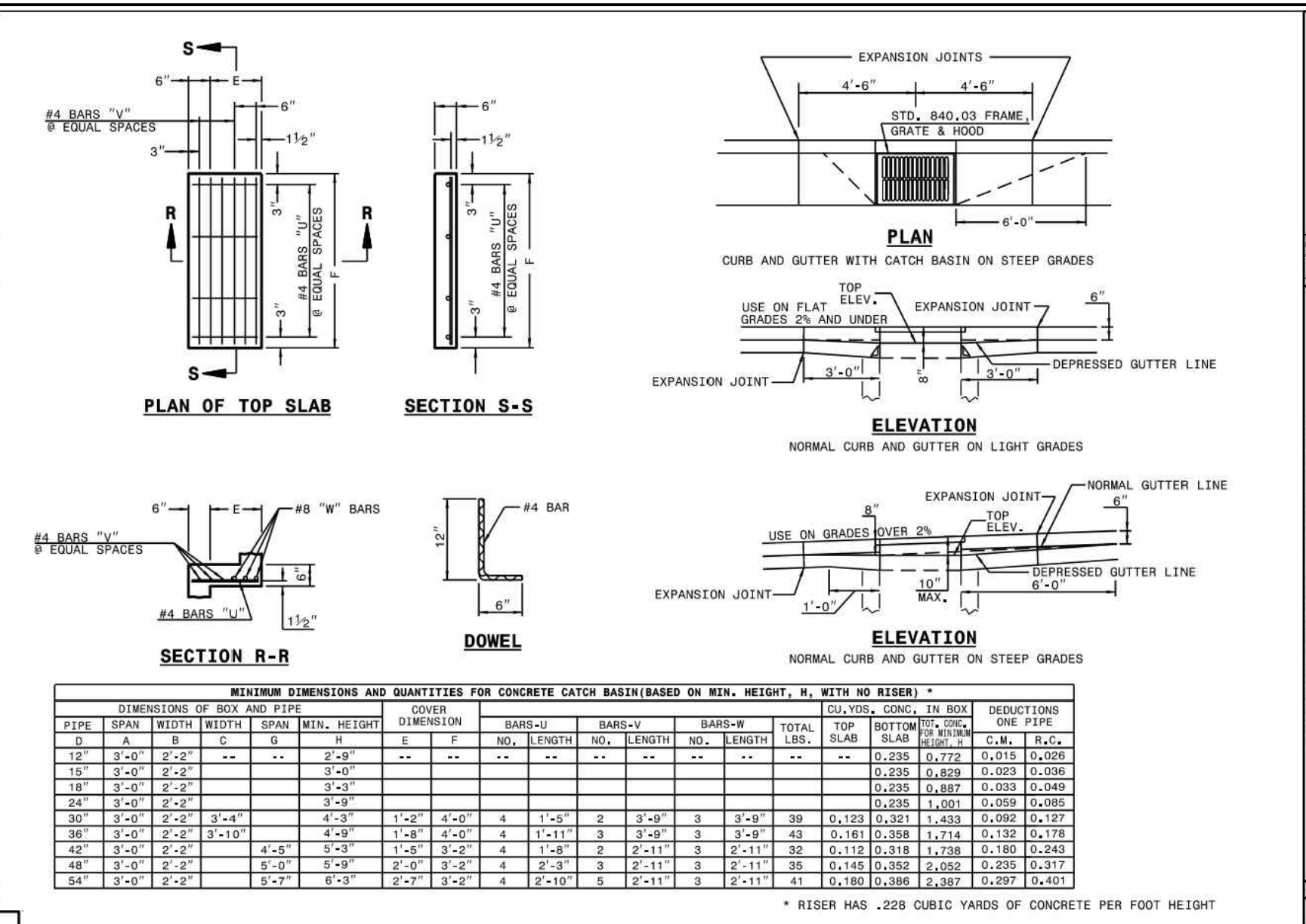
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12" THRU 54" PIPE

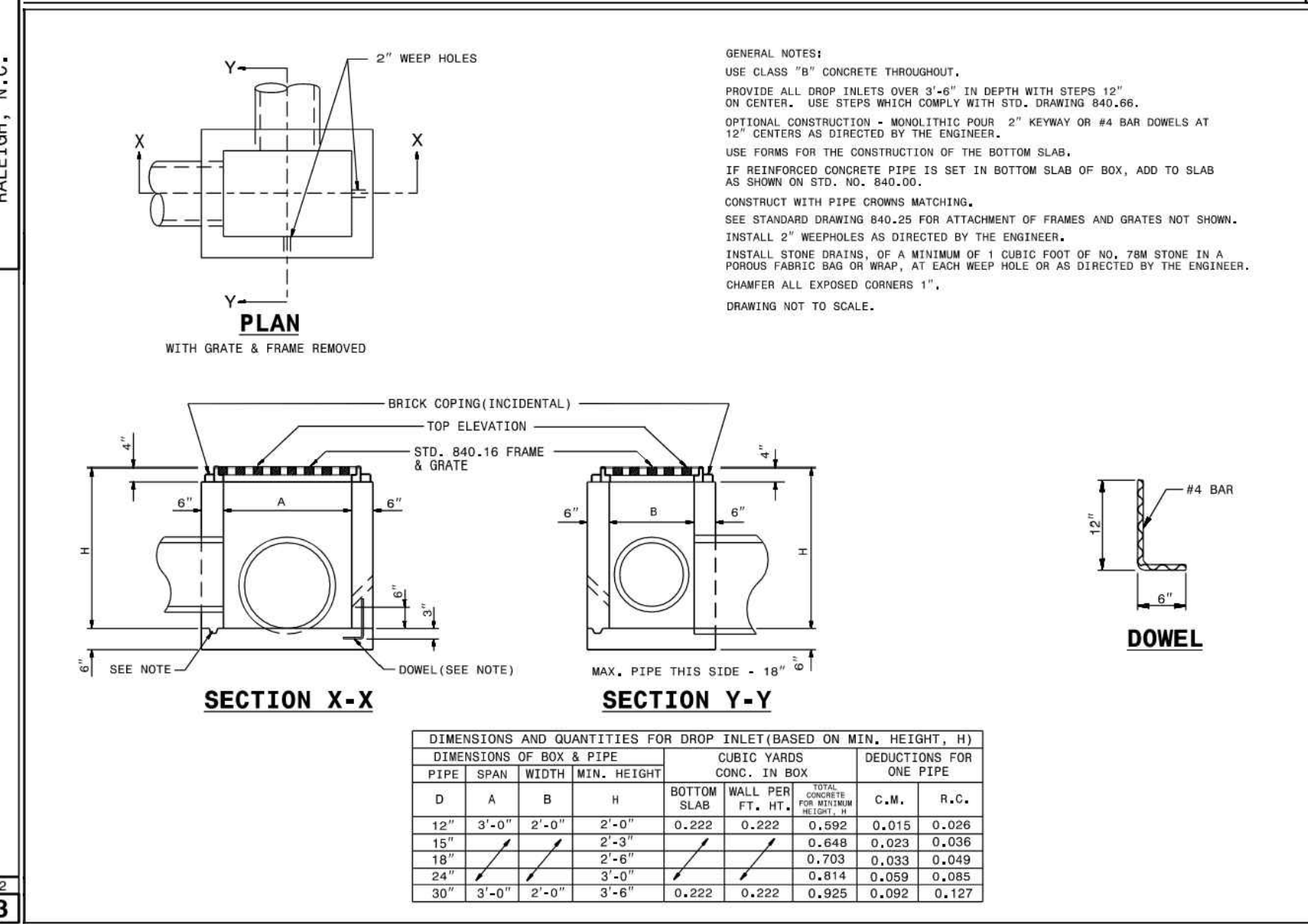
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12" THRU 54" PIPE

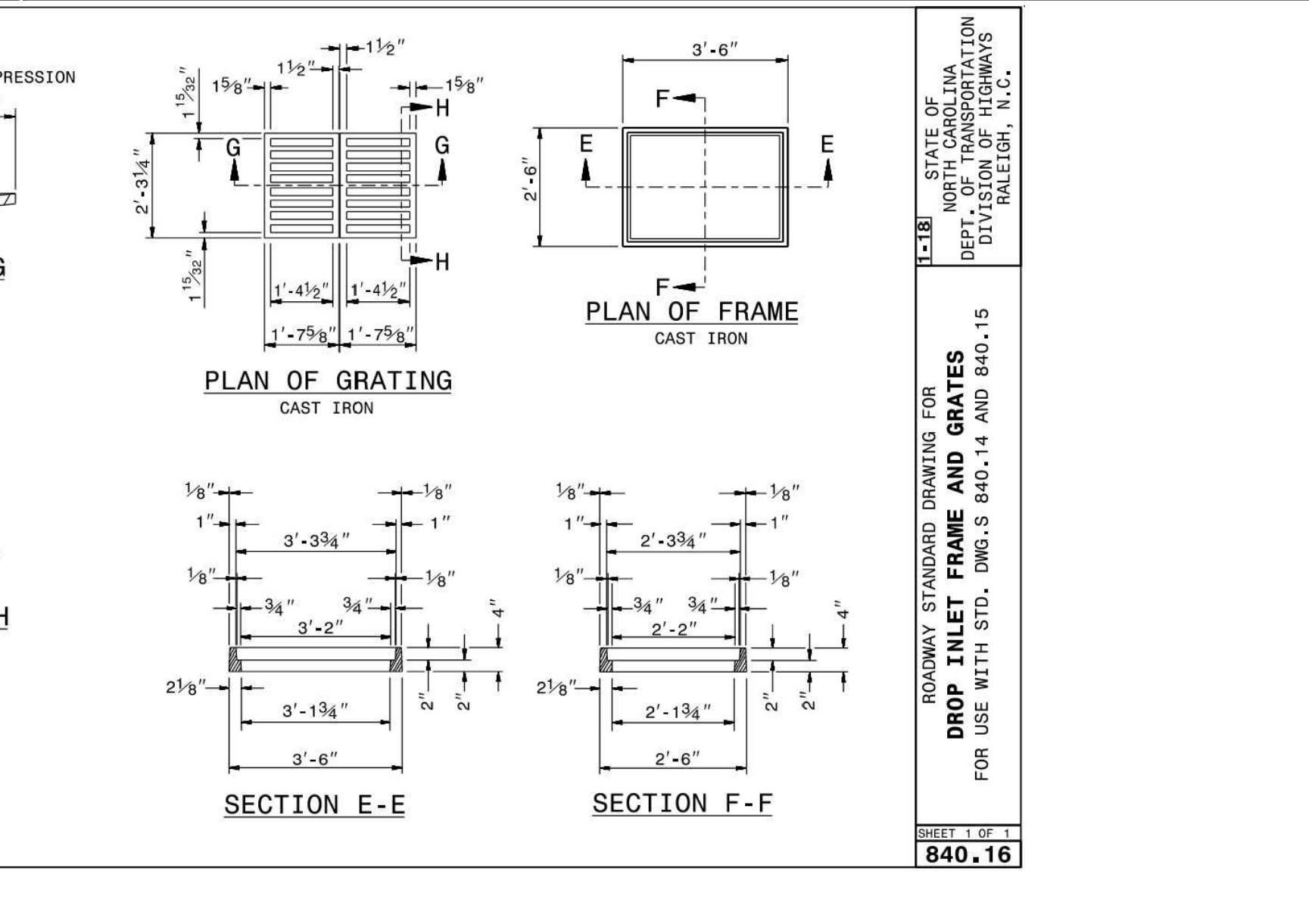
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ROADWAY STANDARD DRAWING FOR  
**CONCRETE DROP INLET**  
12" THRU 30" PIPE

SHEET 1 OF 1  
**840.14**



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ROADWAY STANDARD DRAWING FOR  
**CONCRETE CATCH BASIN**  
12" THRU 54" PIPE

SHEET 3 OF 3  
**840.02**

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REVISIONS TO APPROVED PLANS

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DESIGNED BY  
**P. BARBEAU**

CHECKED BY  
**P. BARBEAU**

SCALE  
**AS SHOWN**

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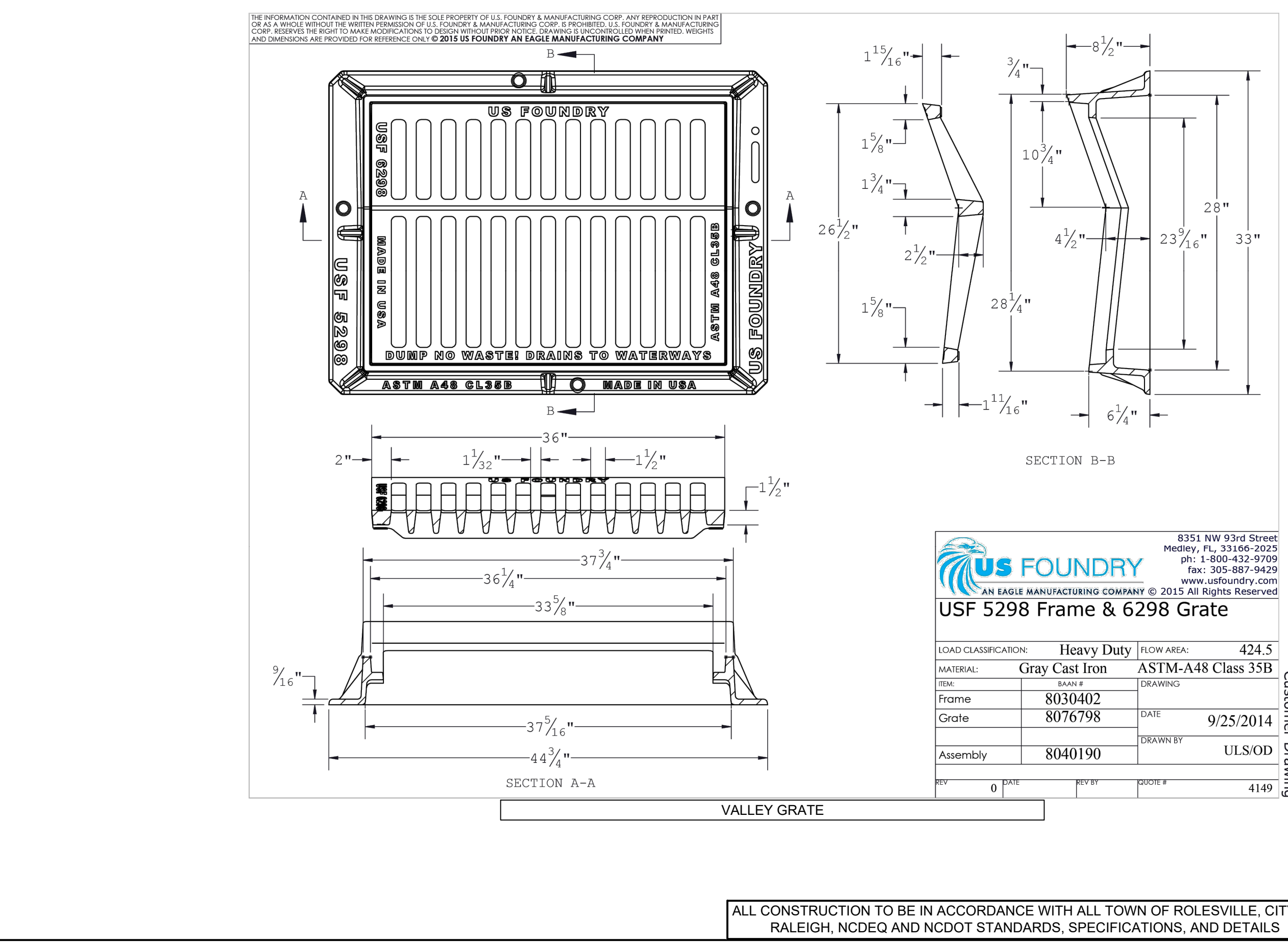
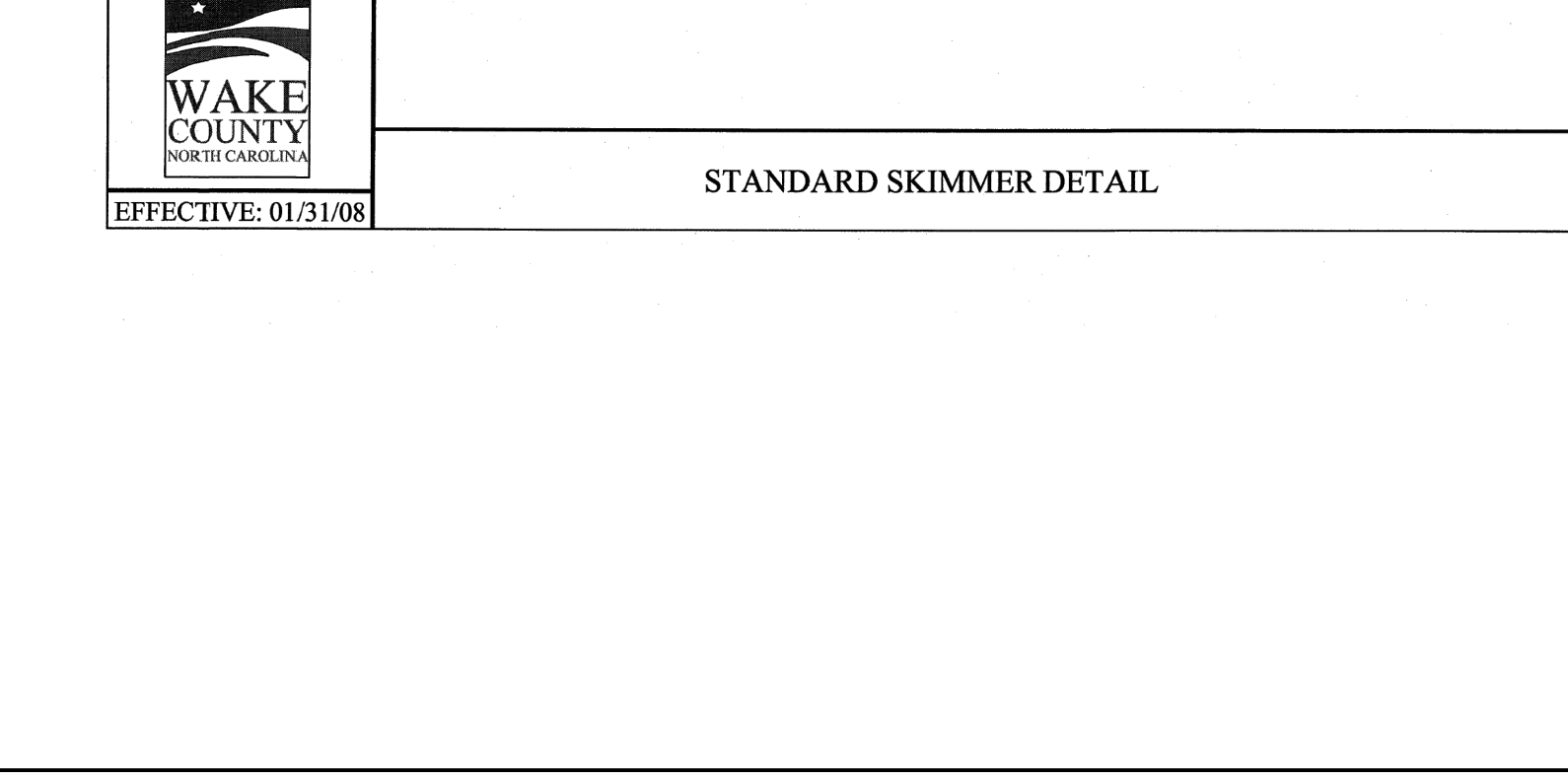
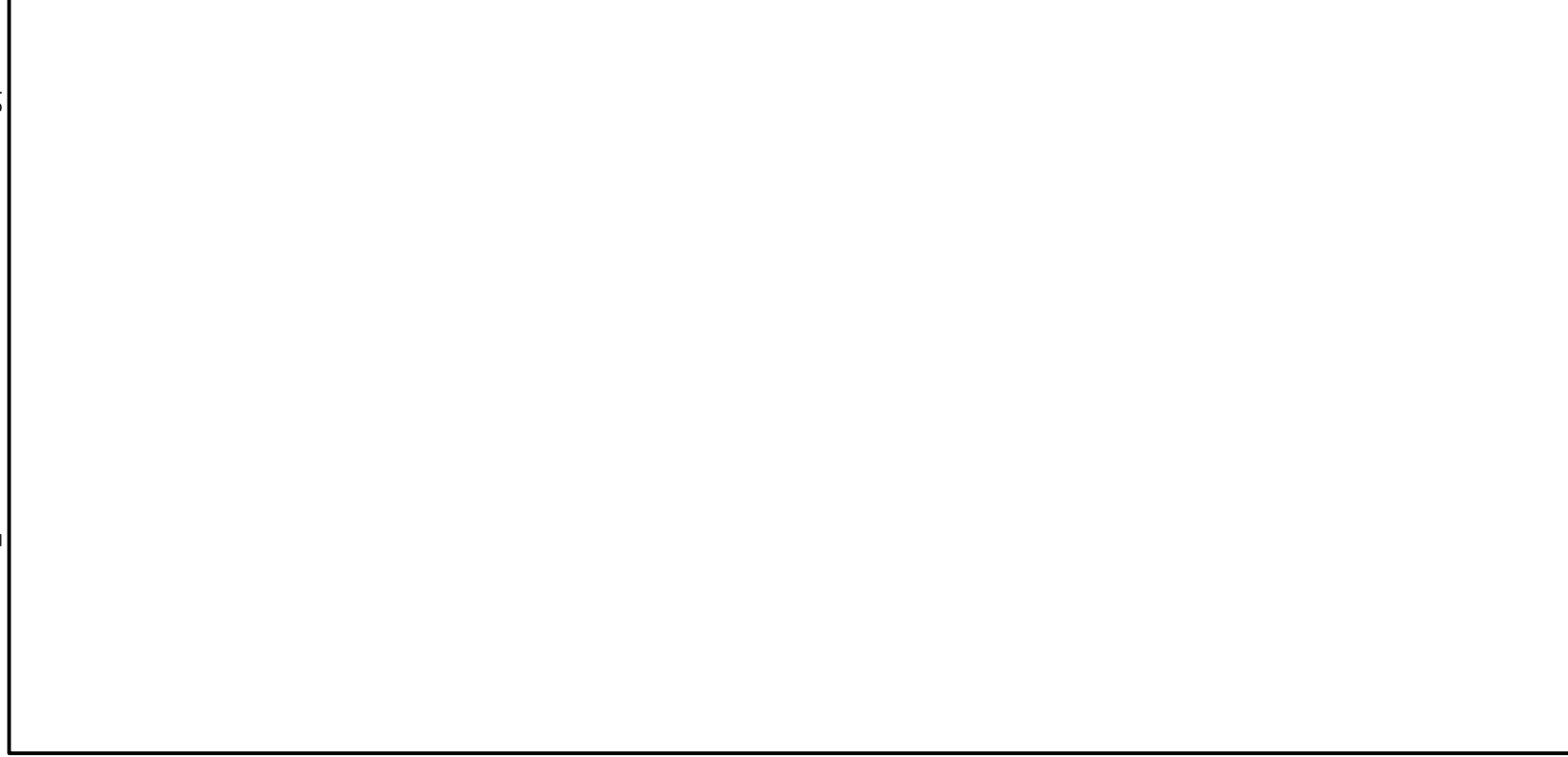
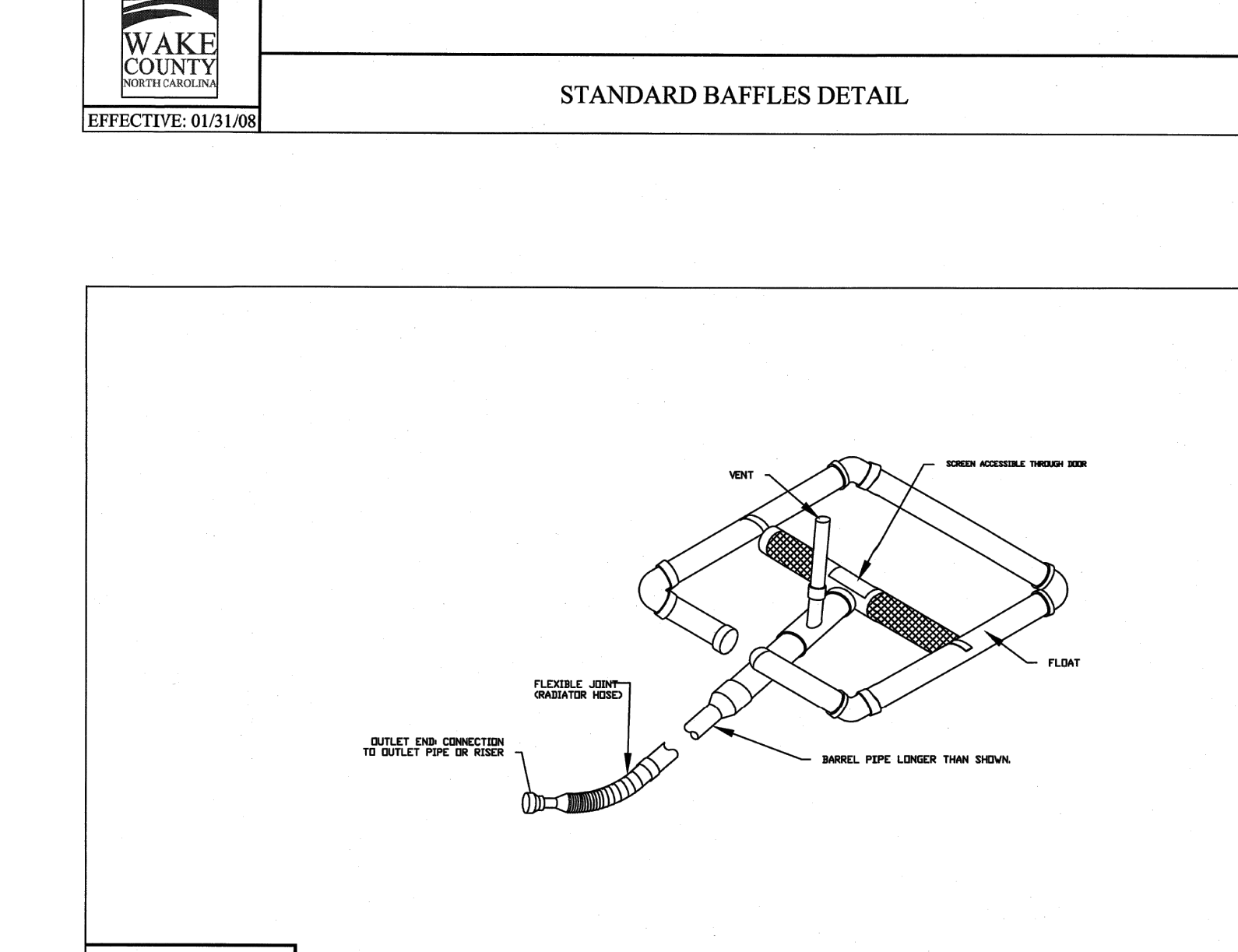
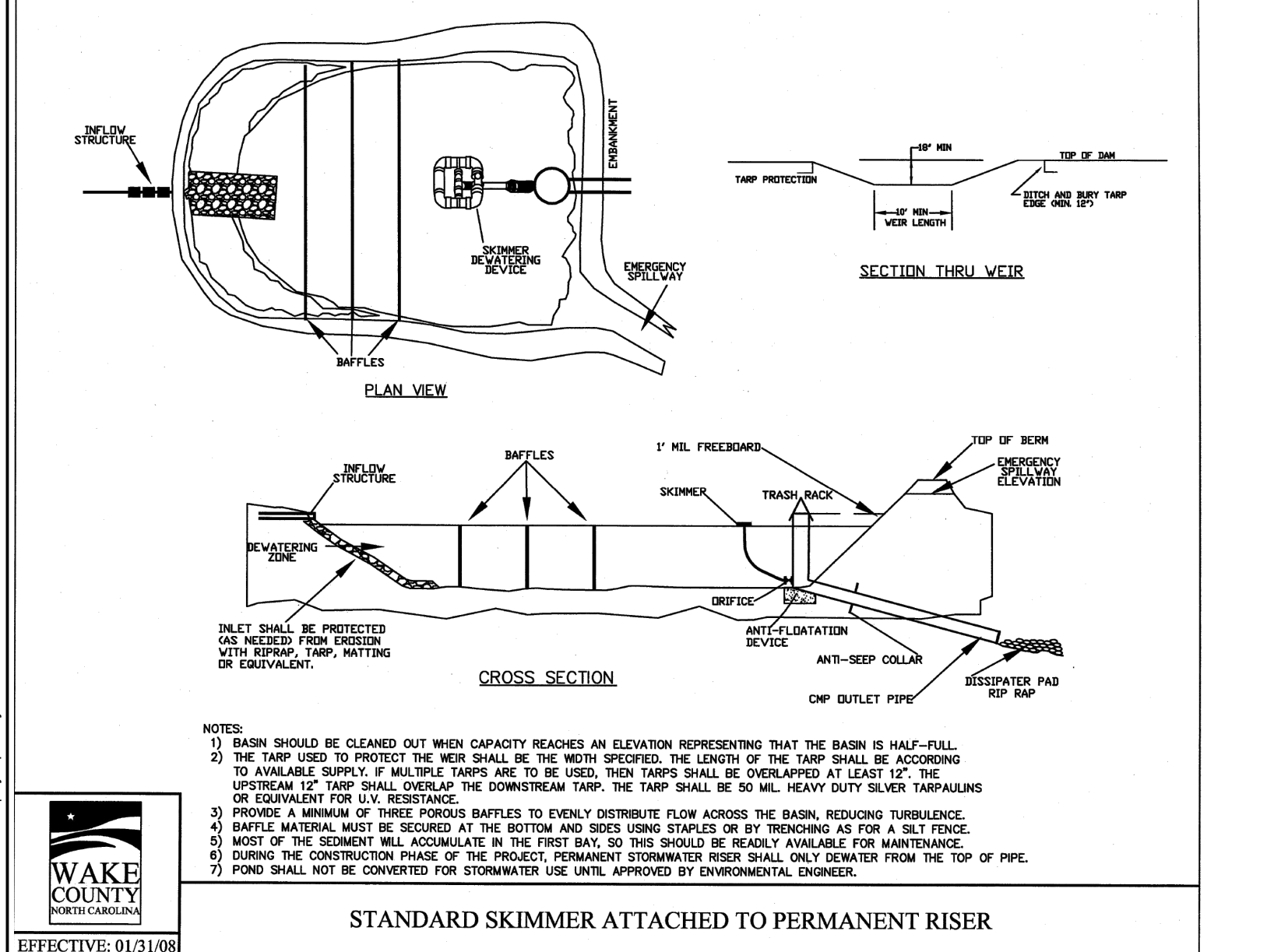
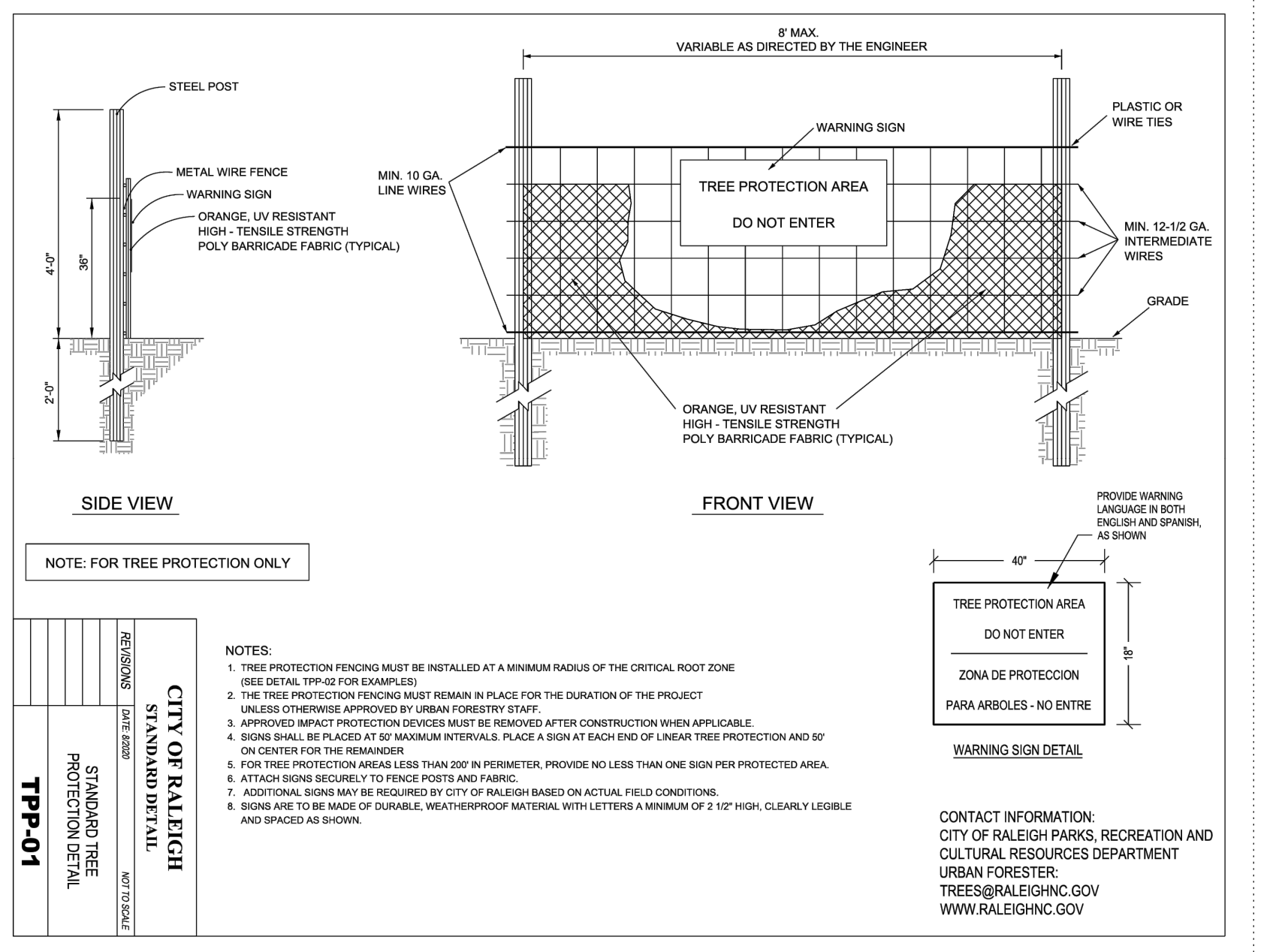
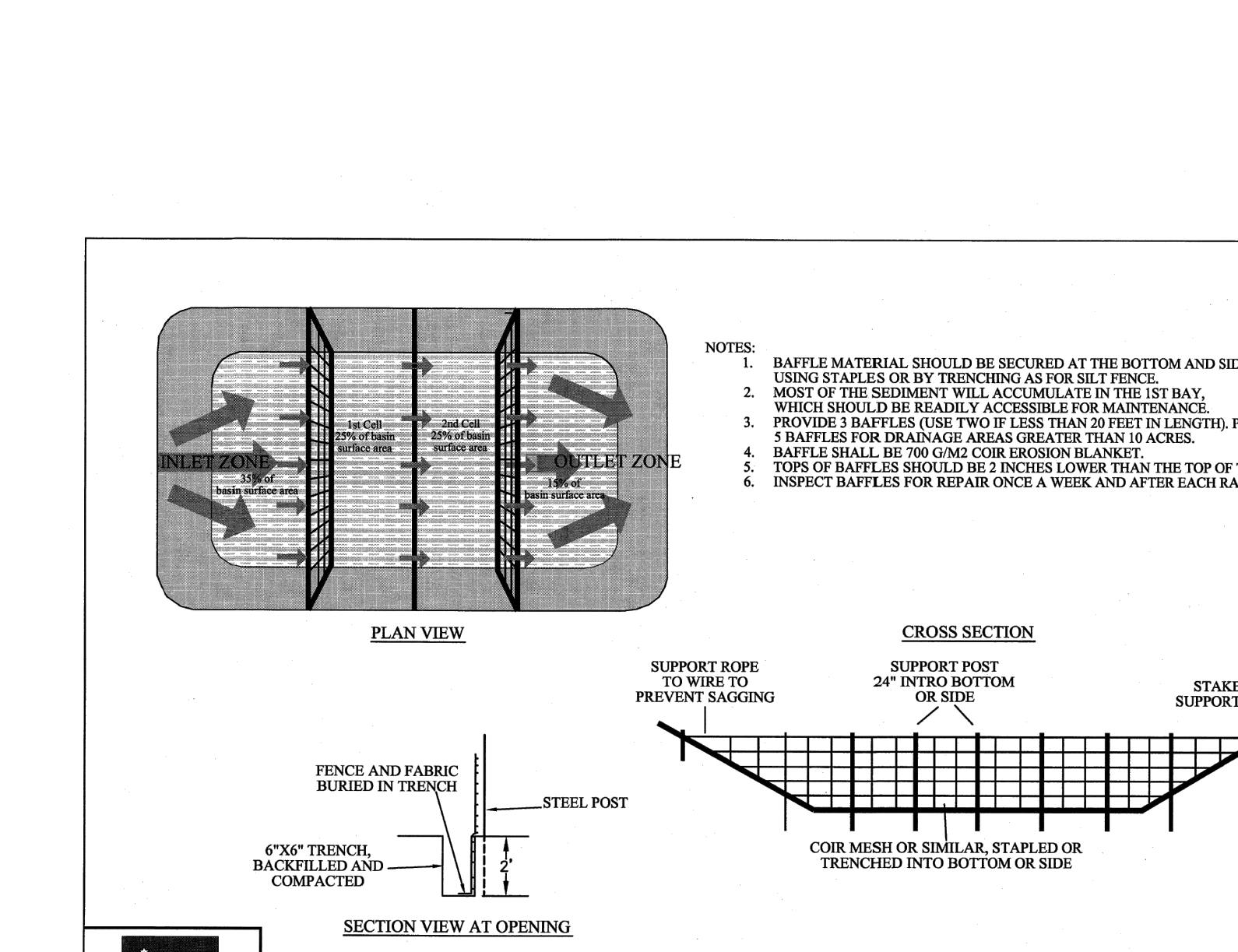
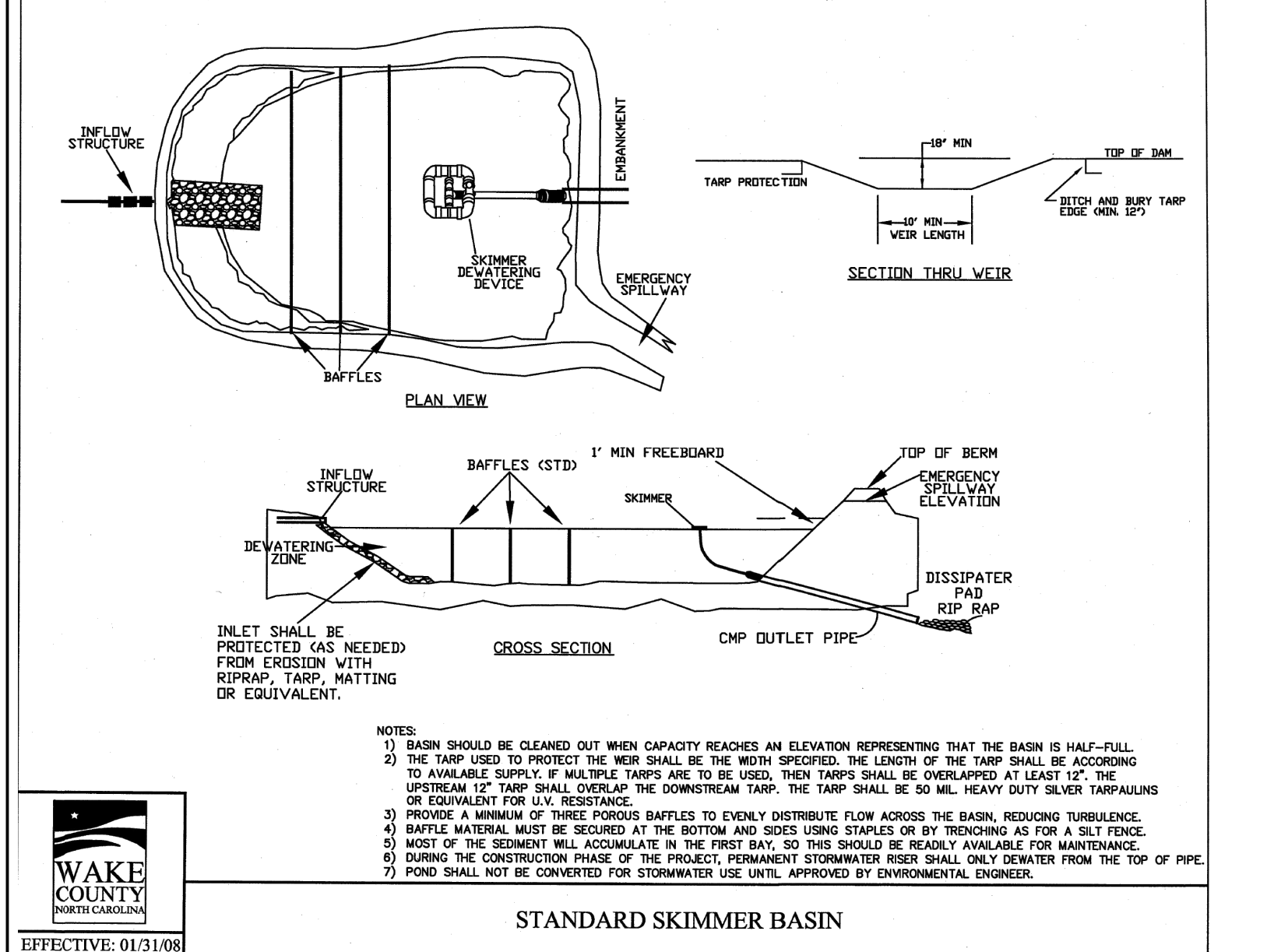
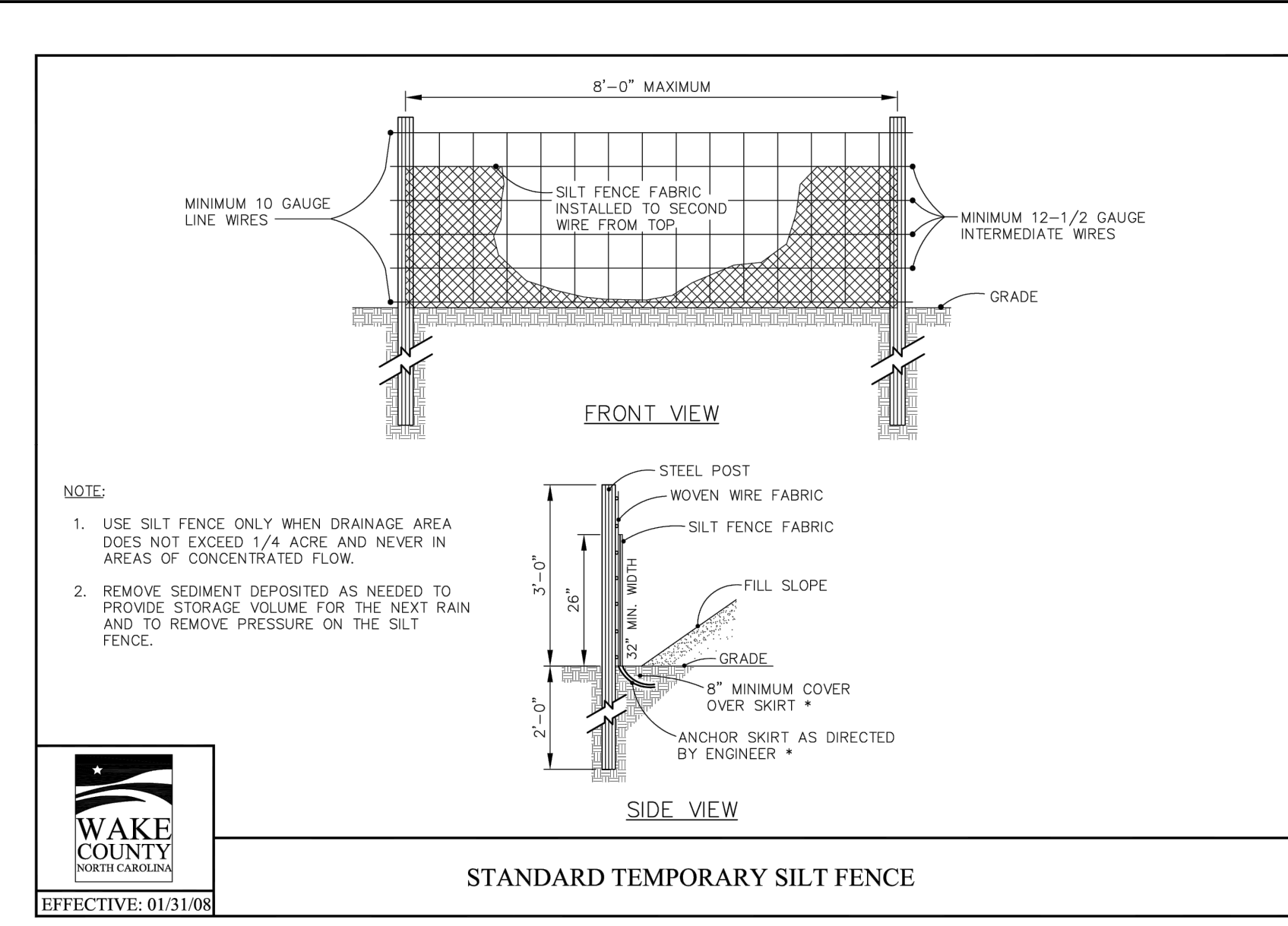
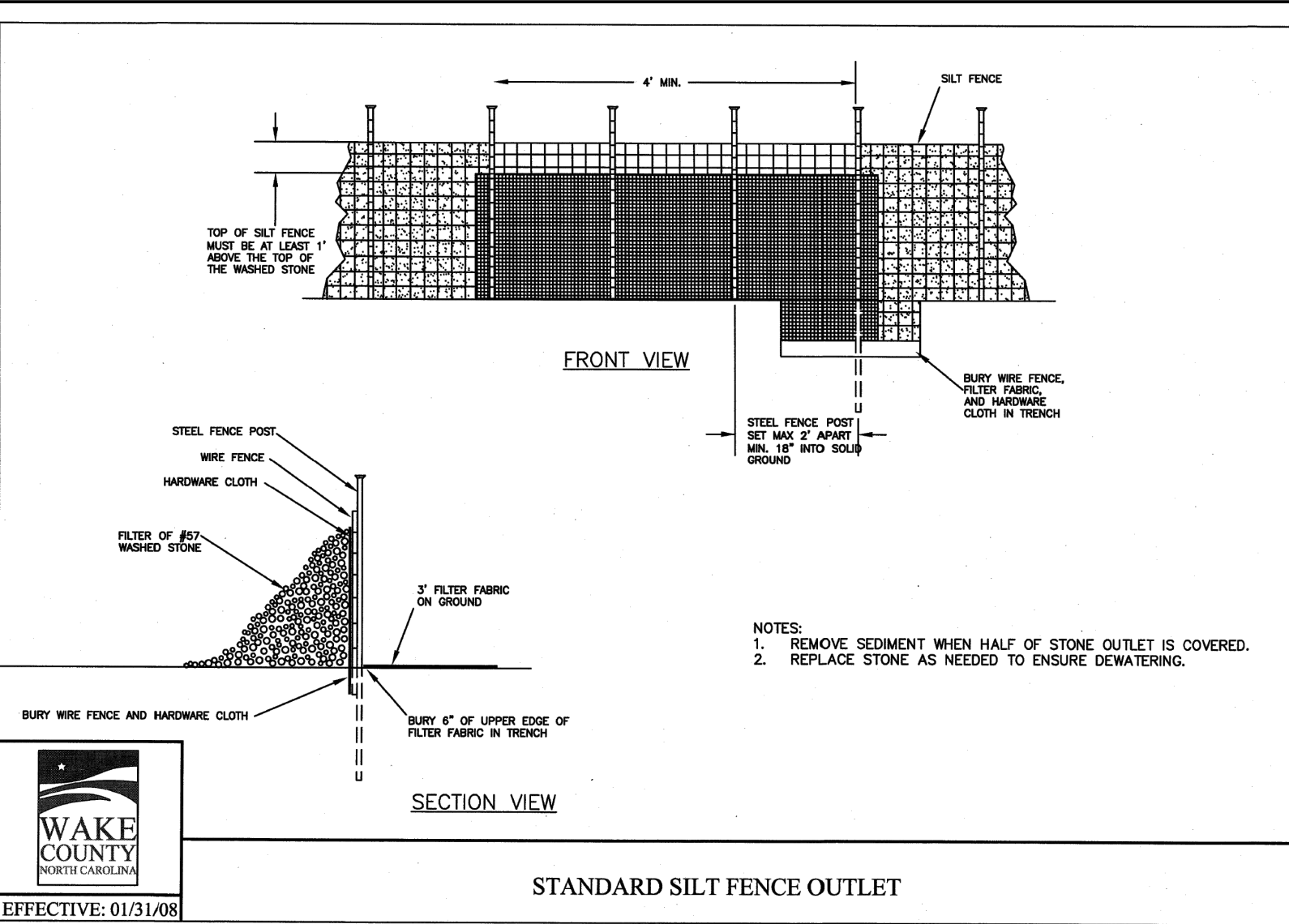
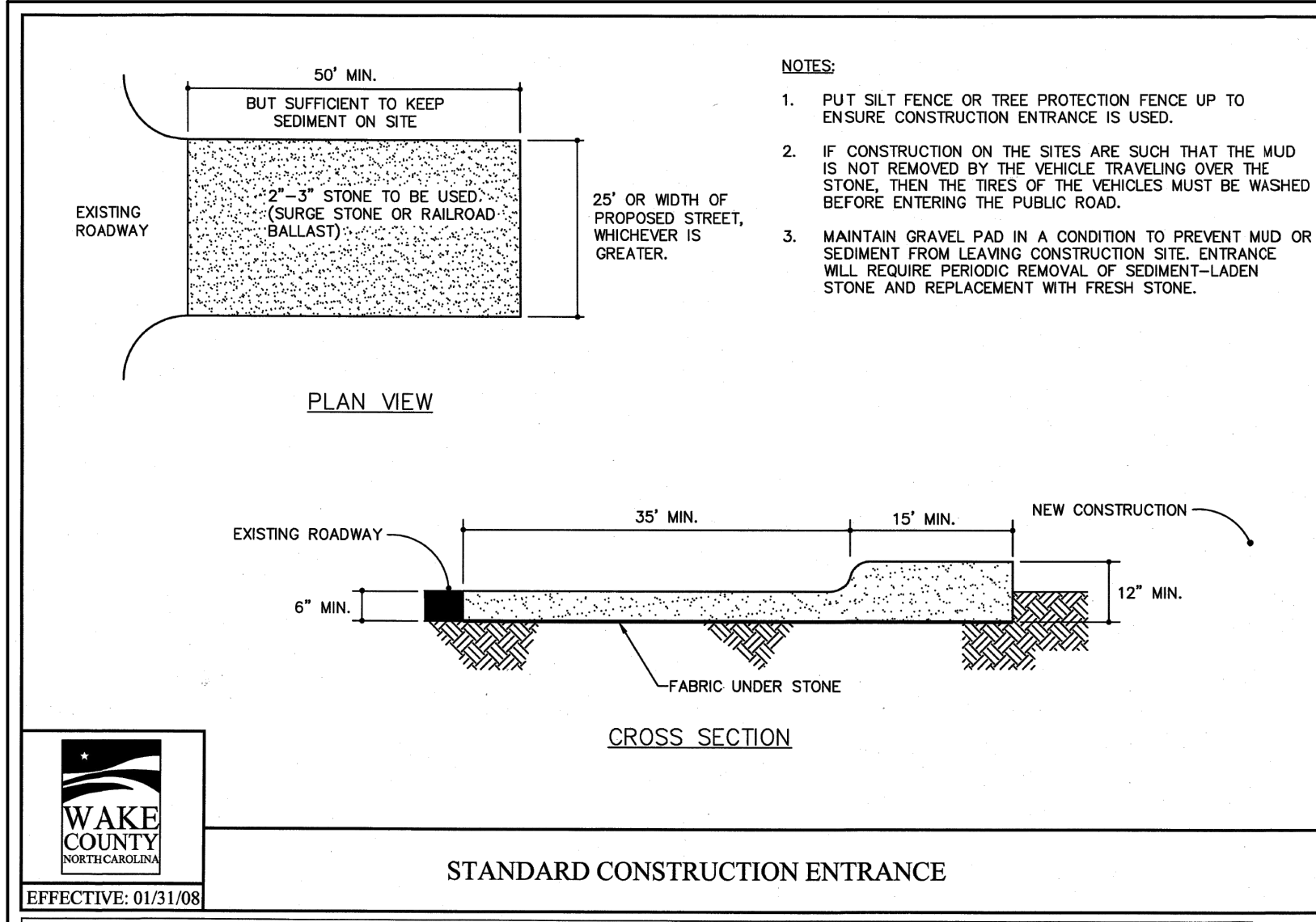
**ROLESVILLE CROSSING - CD 21-08**  
WAKE COUNTY - NORTH CAROLINA

**STORM DRAINAGE DETAILS**

JOB NO.  
**43398**

SHEET NO.  
**C7.2**

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 DESIGNED BY: P. BARBEAU  
 CHECKED BY: P. BARBEAU  
 SCALE: AS SHOWN

# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## ROLESVILLE CROSSING - CD 21-08

WAKE COUNTY - NORTH CAROLINA

### EROSION CONTROL & STORM DRAINAGE DETAILS

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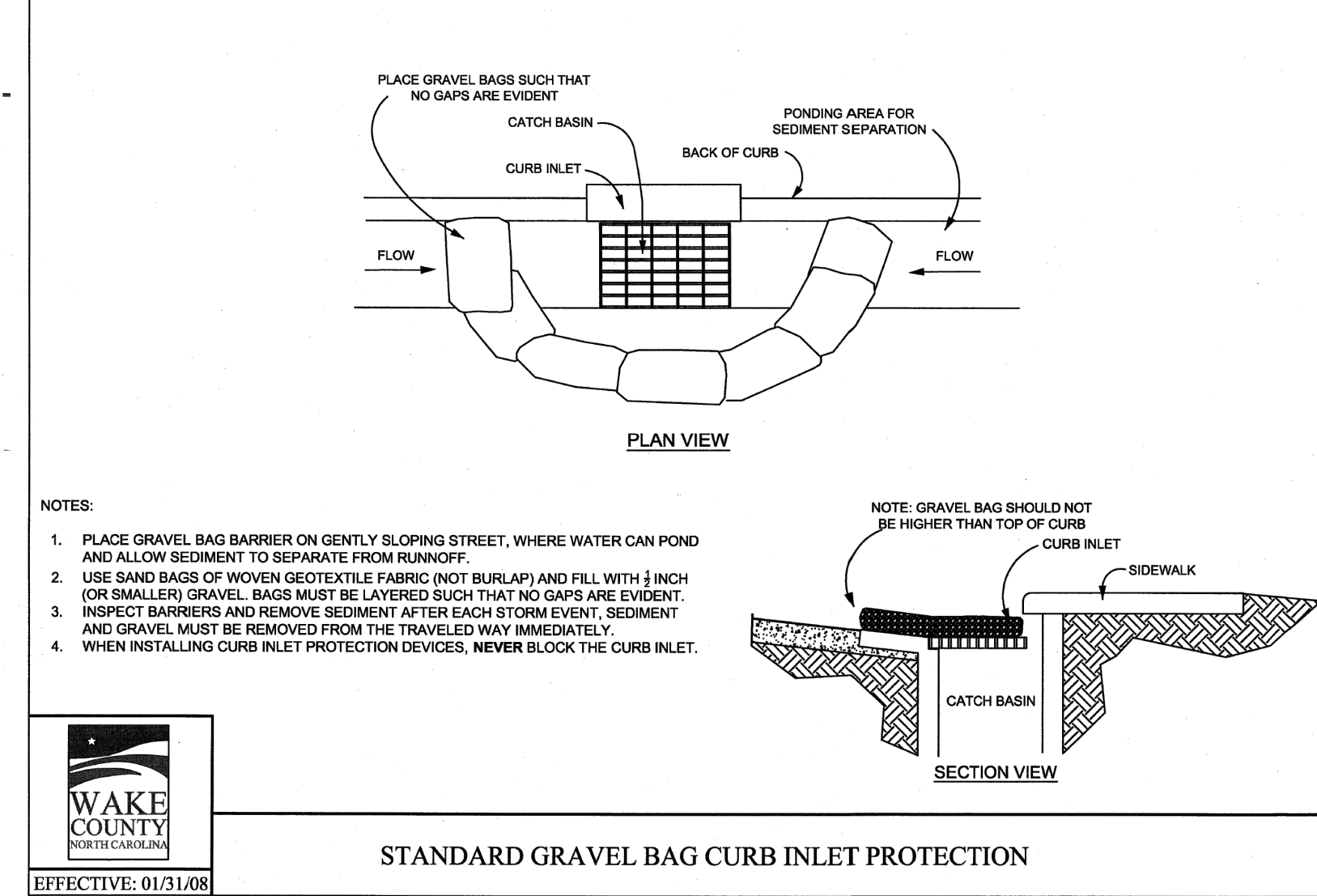
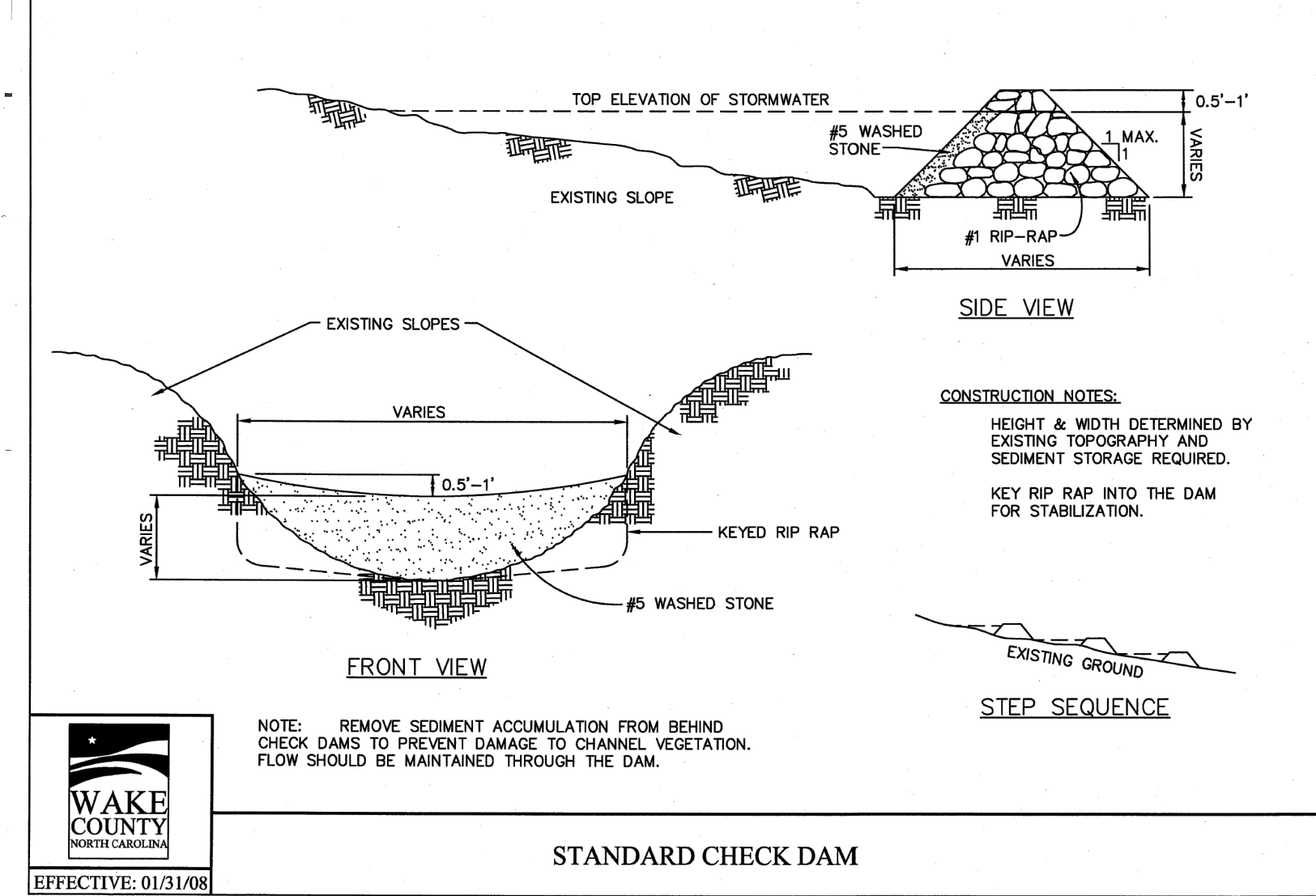
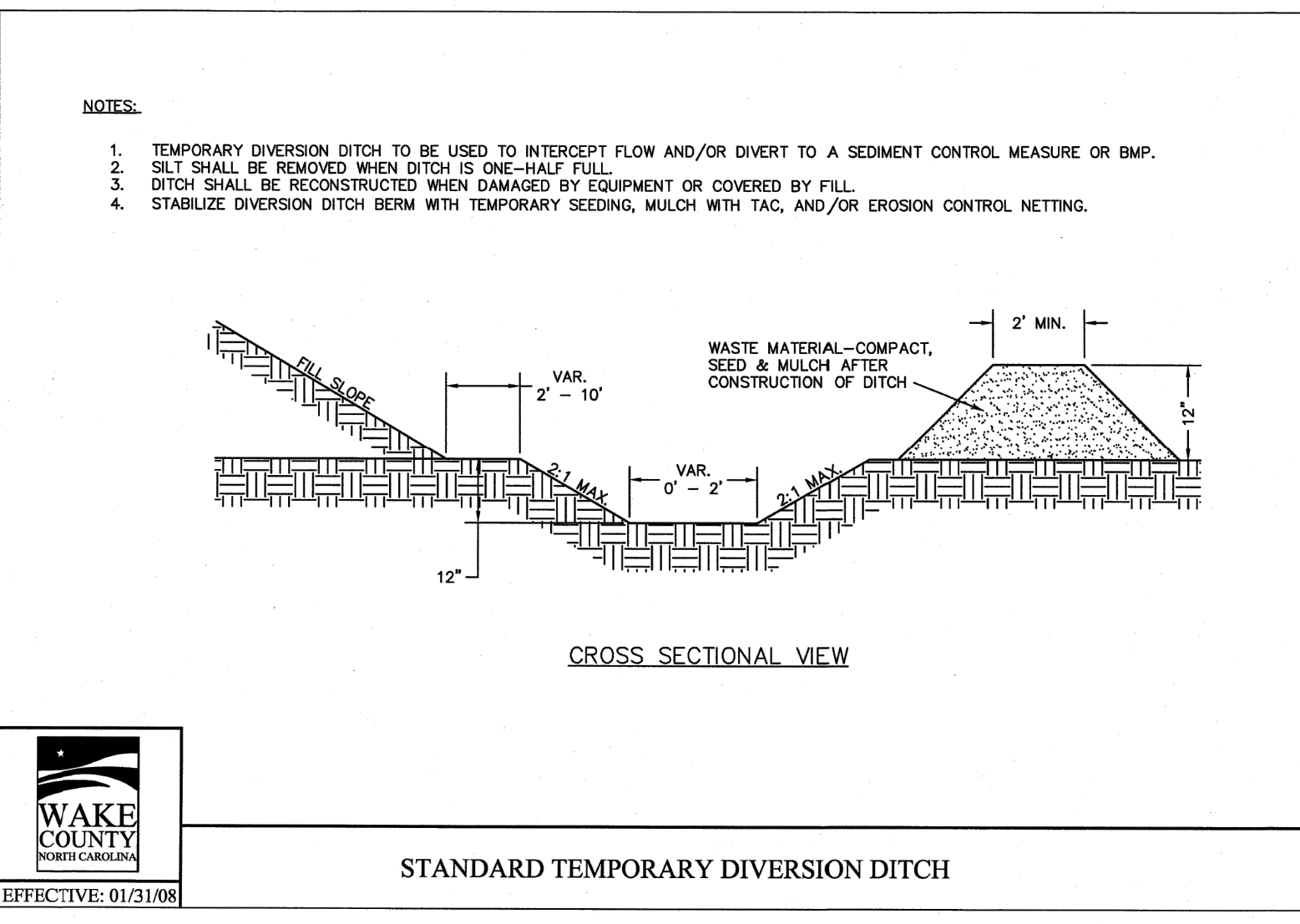
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**ROLESVILLE CROSSING - CD 21-08**  
 WAKE COUNTY - NORTH CAROLINA  
**EROSION CONTROL DETAILS**

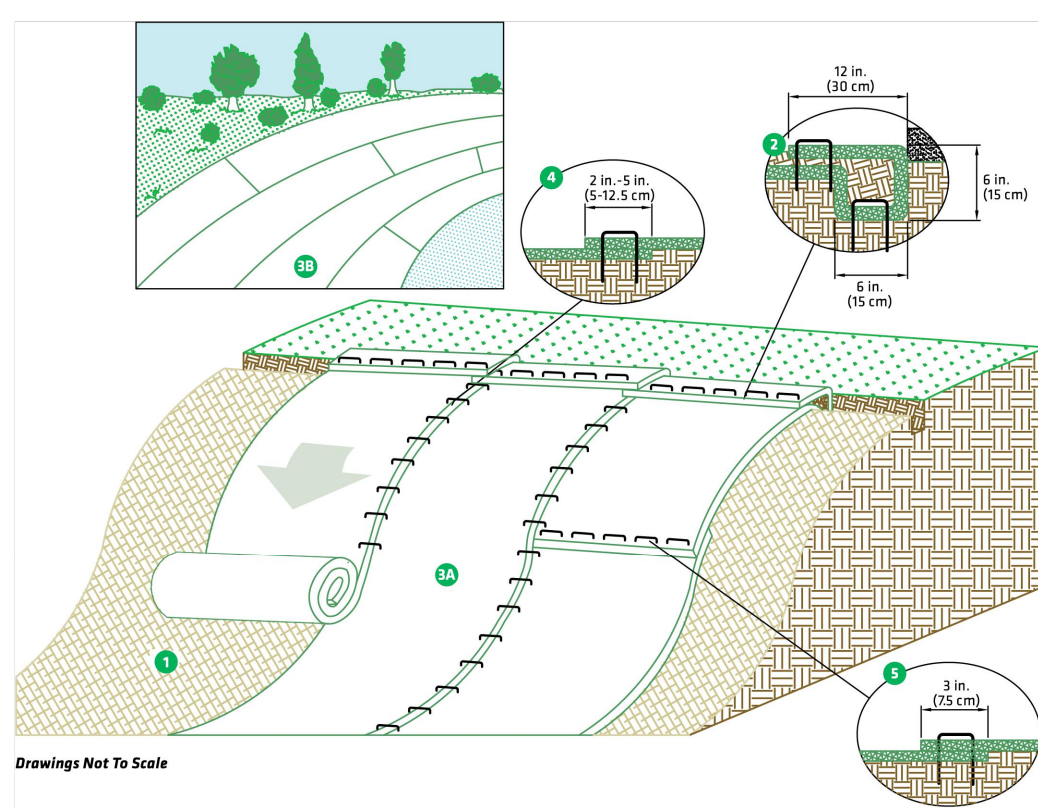
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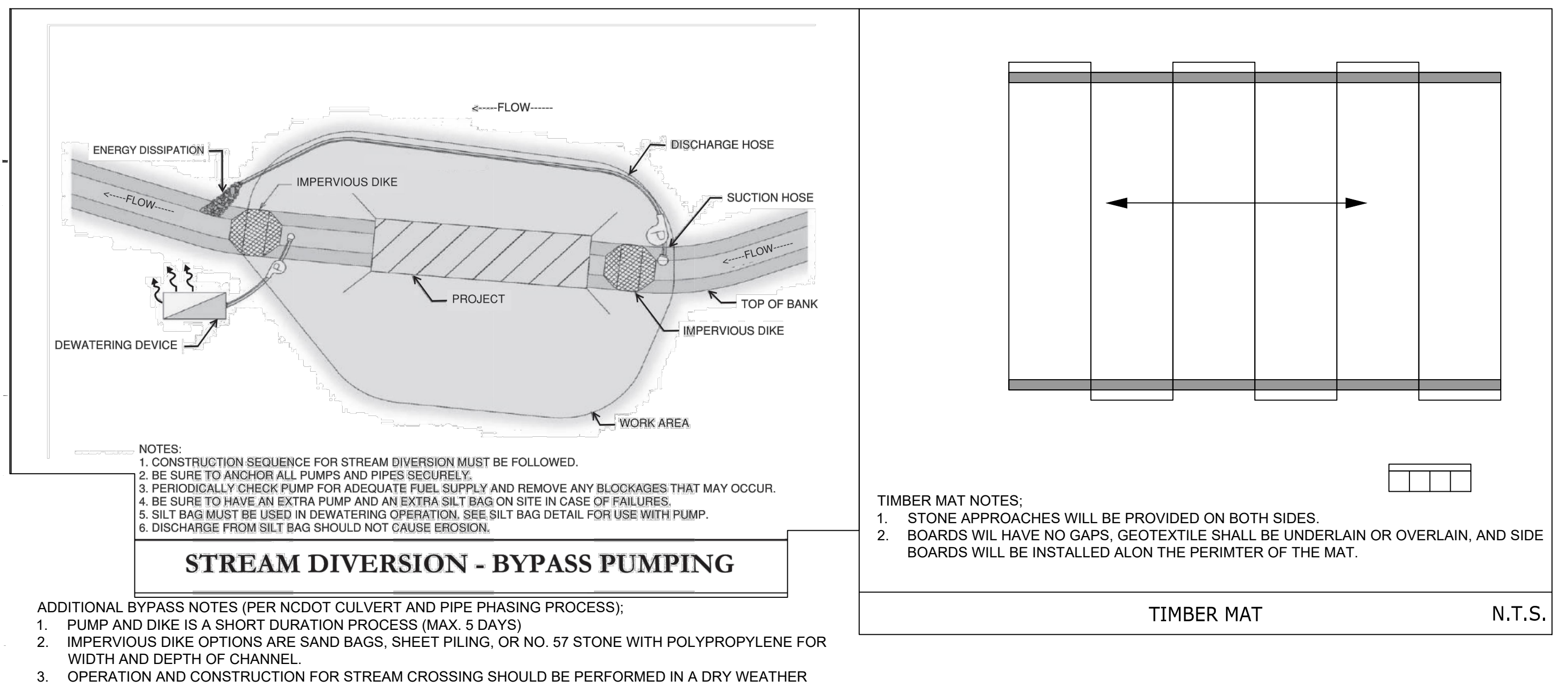
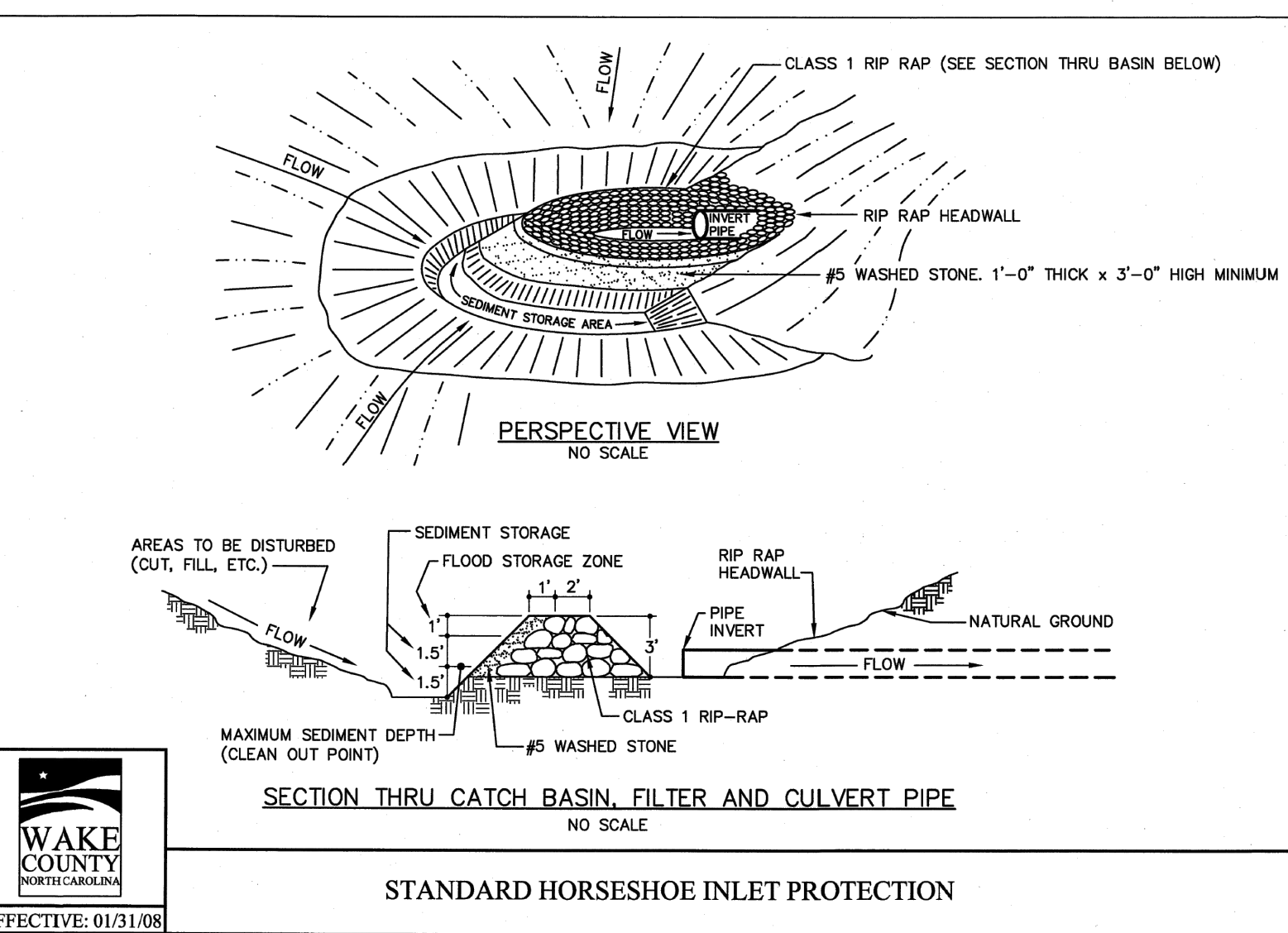
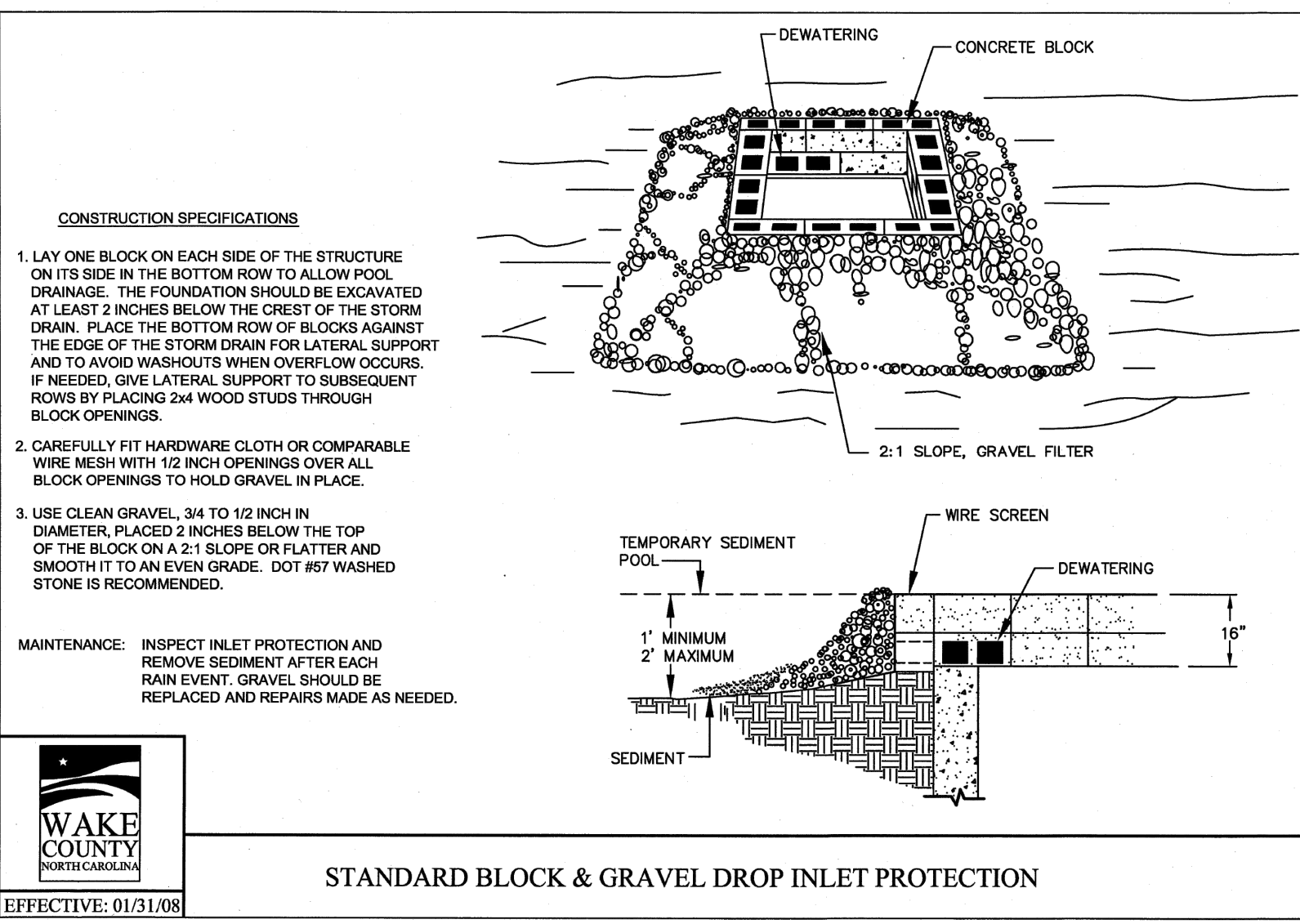
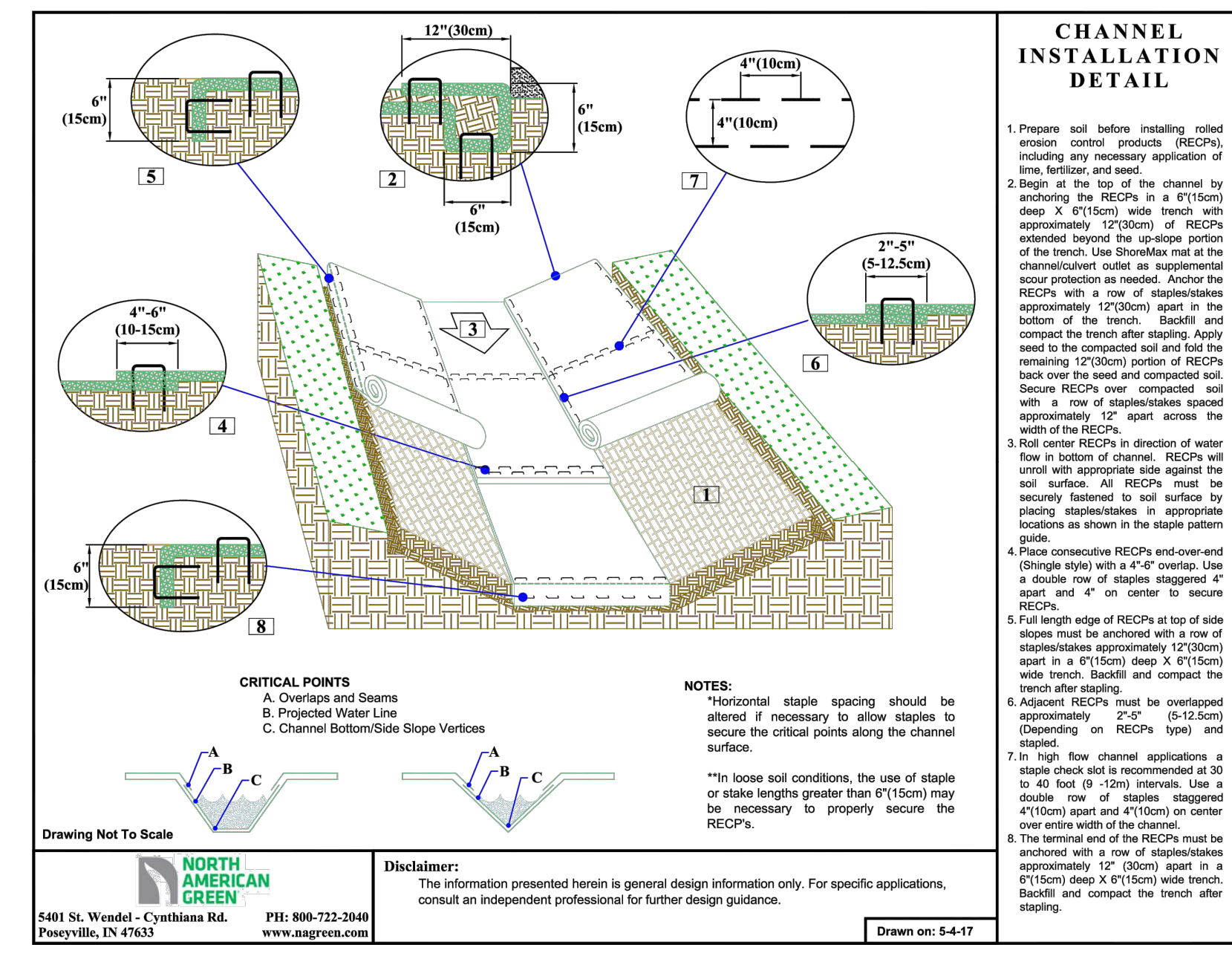


**Slope Installation**

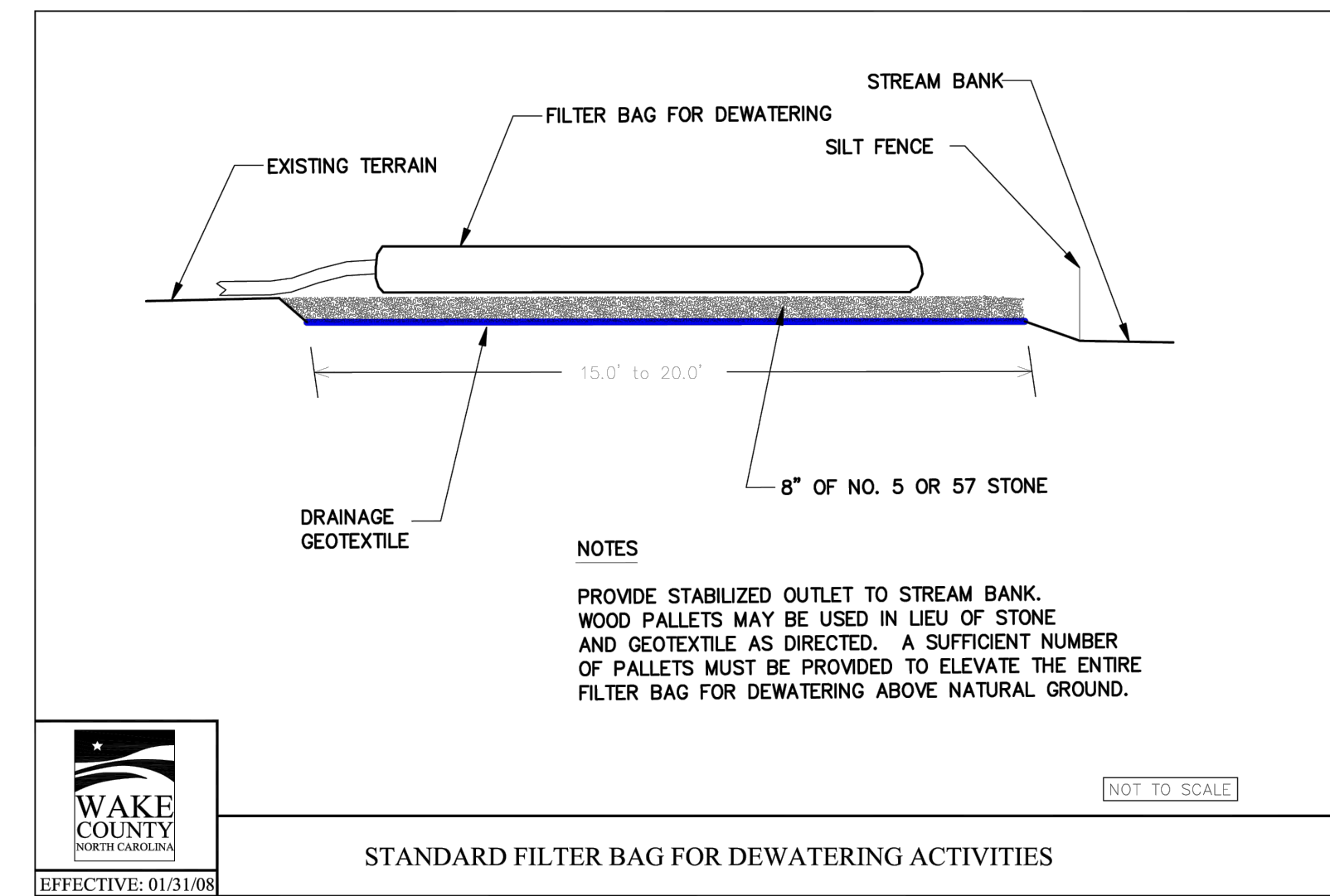
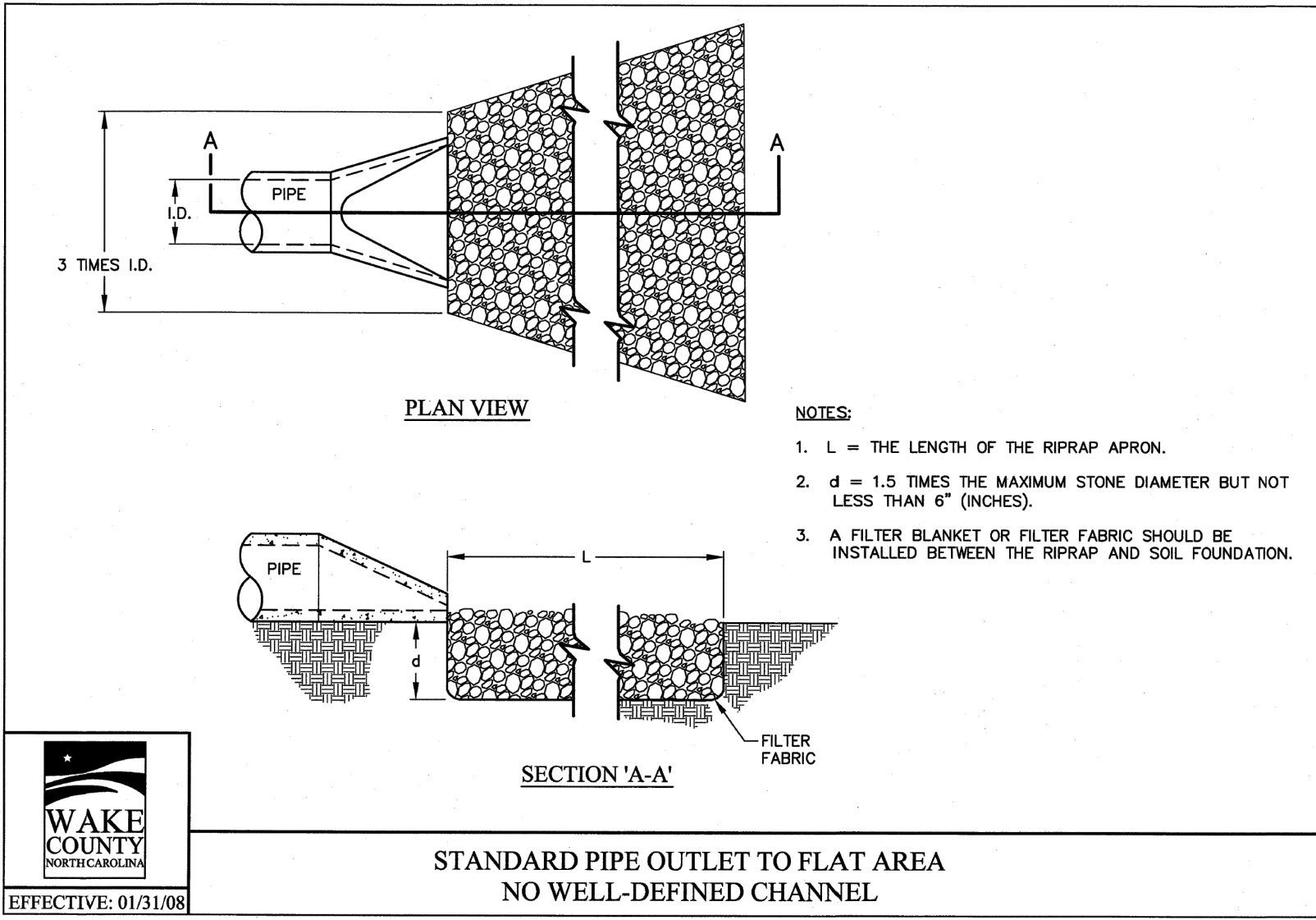
The following slope guide outlines general recommendations for installing RollMax™ System temporary and/or permanent RECPs on sloping applications. Consult the staple pattern guide (Figure 1) for fastener spacing recommendations based on the slope severity.



- SLOPE INSTALLATION STEPS**
1. Prepare soil before installing RECPs, including any necessary application of lime, fertilizer and seed.
  2. Begin at the top of the slope by anchoring the RECPs in a 6 in. (15 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of RECPs extended beyond the upslope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12 in. (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12 in. (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12 in. (30 cm) apart across the width of the RECPs.
  3. Roll the RECPs (3A) down or (3B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
  4. The edges of parallel RECPs must be stapled with an approximately 2 in. (5 in. (5-12.5 cm) overlap depending on the RECP type.
  5. Consecutive RECPs split down the slope must be end-over-end (shingle style) with an approximate 3 in. (7.5 cm) overlap. Staple through overlapped area, approximately 12 in. (30 cm) apart across entire RECPs width.
- NOTE:** In adverse soil conditions longer staples/stakes or earth anchors may be necessary to properly secure the RECPs.



S:\324\3398-Wheeler\_Timed\DWG-Sheet\CD\43398-C7-D\NTD1.dwg | Printed on: 12/22/2023 1:52 PM | by April Blythe



*Practice Standards and Specifications*

**6.87**

**CHECK DAM WITH A WEIR**

**Definition** A small stone dam structure with a weir outlet with a sediment storage area on the upper side.

**Purpose** To reduce erosion in a drainage channel by restricting the velocity of flow. This structure also has some ability to provide sediment control.

**Conditions Where Practice Applies** This temporary practice may be used in the following locations:

- At outlets of temporary diversions, graded channels, and temporary slope drains;
- In small natural drainage turnouts; and
- In locations where the dams can be easily cleaned and maintained on a regular basis.

**Do not use a check dam with a weir in intermittent or perennial streams.**

**Planning Considerations** Check dams are an expedient way to reduce gullying in the bottom of channels that will be filled or stabilized at a later date. The dams should only be used while permanent stabilization measures are being put into place.

Check dams installed in grass-lined channels may kill the vegetative lining if submergence after it rains is too long and/or sedimentation is excessive. All stone and riprap must be removed if mowing is planned as part of vegetative maintenance.

**Design Criteria** The following criteria should be used when designing a check dam with a weir:

- Keep the weir at least 9 inches lower than the outer edges at natural ground elevation. The weir length is variable to the size of the drainage area and peak runoff. The weir length may be sized as:  
$$L (ft) = \frac{Q \text{ peak } (cfs)}{0.88}$$
- Keep the side slope of the stone at 2:1 or flatter.
- The apron length (lower side of dam) should be approximately three times the height of the dam with a minimum length of 4 feet. Stabilize outflow areas along the channel to resist erosion.
- The maximum spacing between dams places the toe of the upstream dam at the same elevation as the top of the downstream dam (Figure 6.84a).
- Use NC DOT Class B stone and line the upstream side of the dam with NC DOT #5 or #57 stone.
- Key the stone into the ditch banks and extend it beyond the abutments a minimum of 1.5 feet to avoid washouts from overflow around the dams.
- Sediment storage area should be sized for the anticipated volume of sedimentation.

Rev. 6/06 6.87.1

**6**

**Construction Specifications**

- Place structural stone (Class B) to the lines and dimensions shown on the plan on a filter fabric foundation. The crest width of the dam should be a minimum of 2 feet.
- Keep the center stone section at least 9 inches below the end where the dam abuts the channel banks.
- Place sediment control stone (#5 or #57) on the upstream side of the dam that is a minimum of 1 foot thick.
- Provide an apron that is 3 times the height of the dam. The apron width is at least 4 feet long. Undercut the apron so that the top of the apron is flush with the surrounding grade.
- Extend the stone at least 1.5 feet beyond the ditch bank to keep water from cutting around the ends of the check dam.
- Excavate sediment storage area to the dimensions shown on the plan.

**Maintenance** Inspect check dams and channels at least weekly and after each significant (1/2 inch or greater) rainfall event and repair immediately. Clean out sediment, straw, limbs, or other debris that could clog the channel when needed.

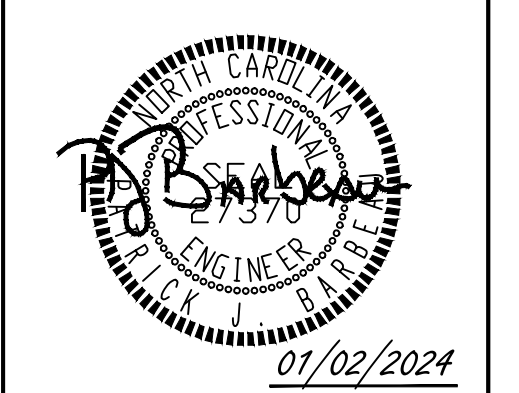
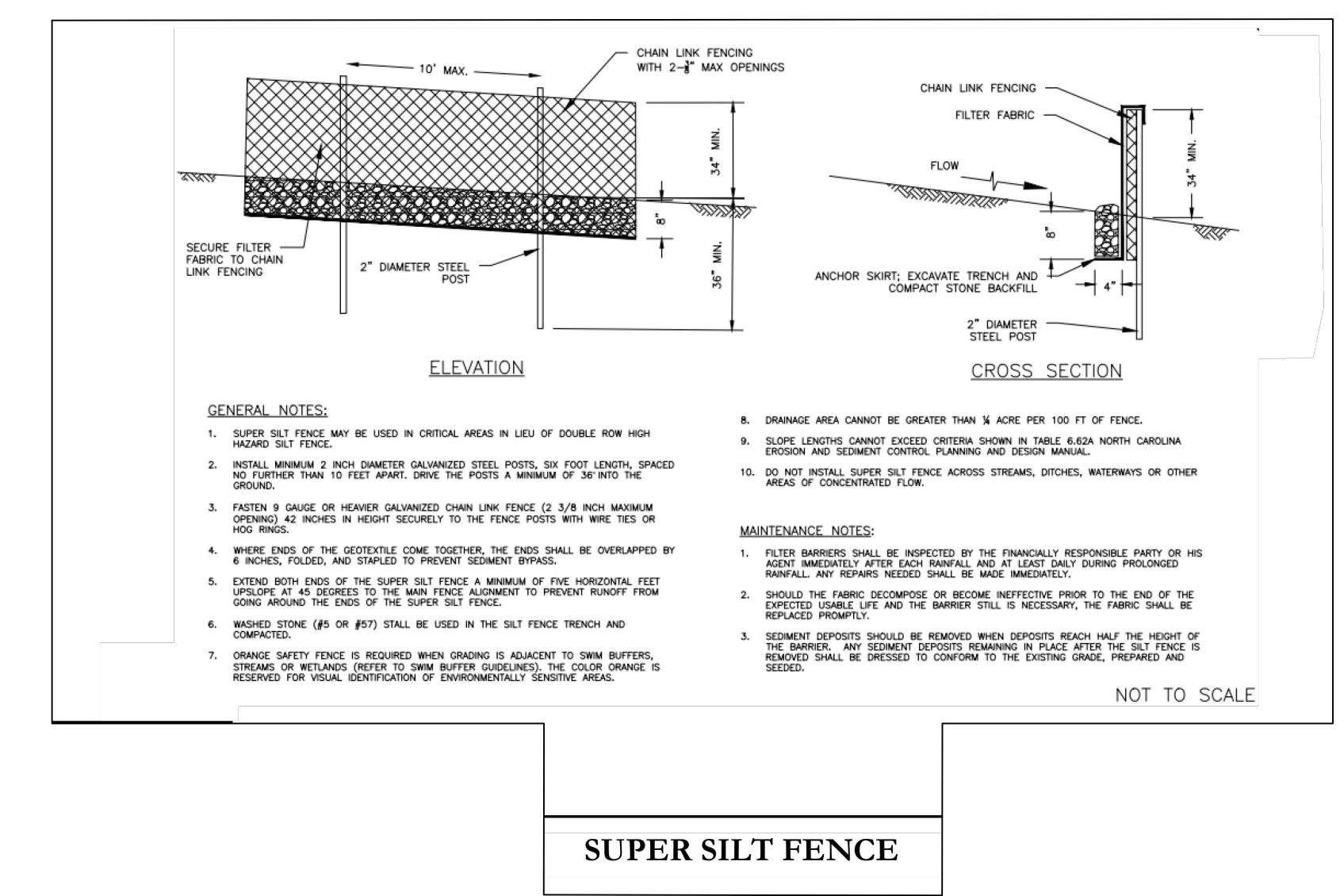
Anticipate submergence and deposition above the check dam and erosion from high flows around the edges of the dam. Correct all damage immediately. If significant erosion occurs between dams, additional measures can be taken such as, installing a protective riprap liner in that portion of the channel (Practice 6.31, *Riprap-line and Paved Channels*).

Remove sediment accumulated behind the dams as needed to prevent damage to channel vegetation, allow the channel to drain through the stone check dam, and prevent large flows from carrying sediment over the dam. Add stones to dams as needed to maintain design height and cross section.

**References** *Runoff Conveyance Measures*  
6.31, Riprap-lined and Paved Channels

*North Carolina Department of Transportation*  
Standard Specifications for Roads and Structures

6.87.2 Rev. 6/06



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**P. BARBEAU**  
CHECKED BY  
**P. BARBEAU**  
SCALE  
**AS SHOWN**

**TIMMONS GROUP**

NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**

WAKE COUNTY - NORTH CAROLINA

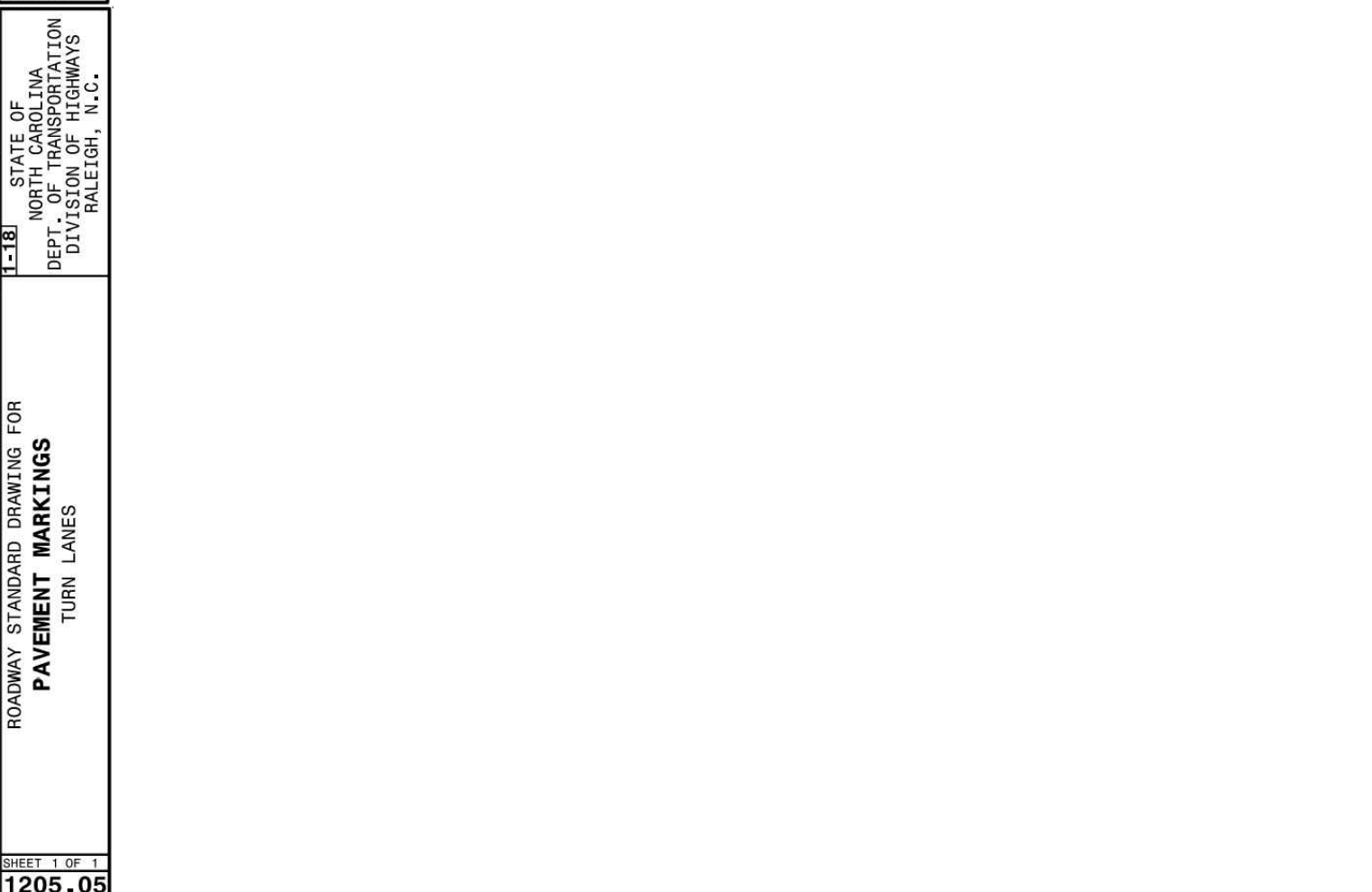
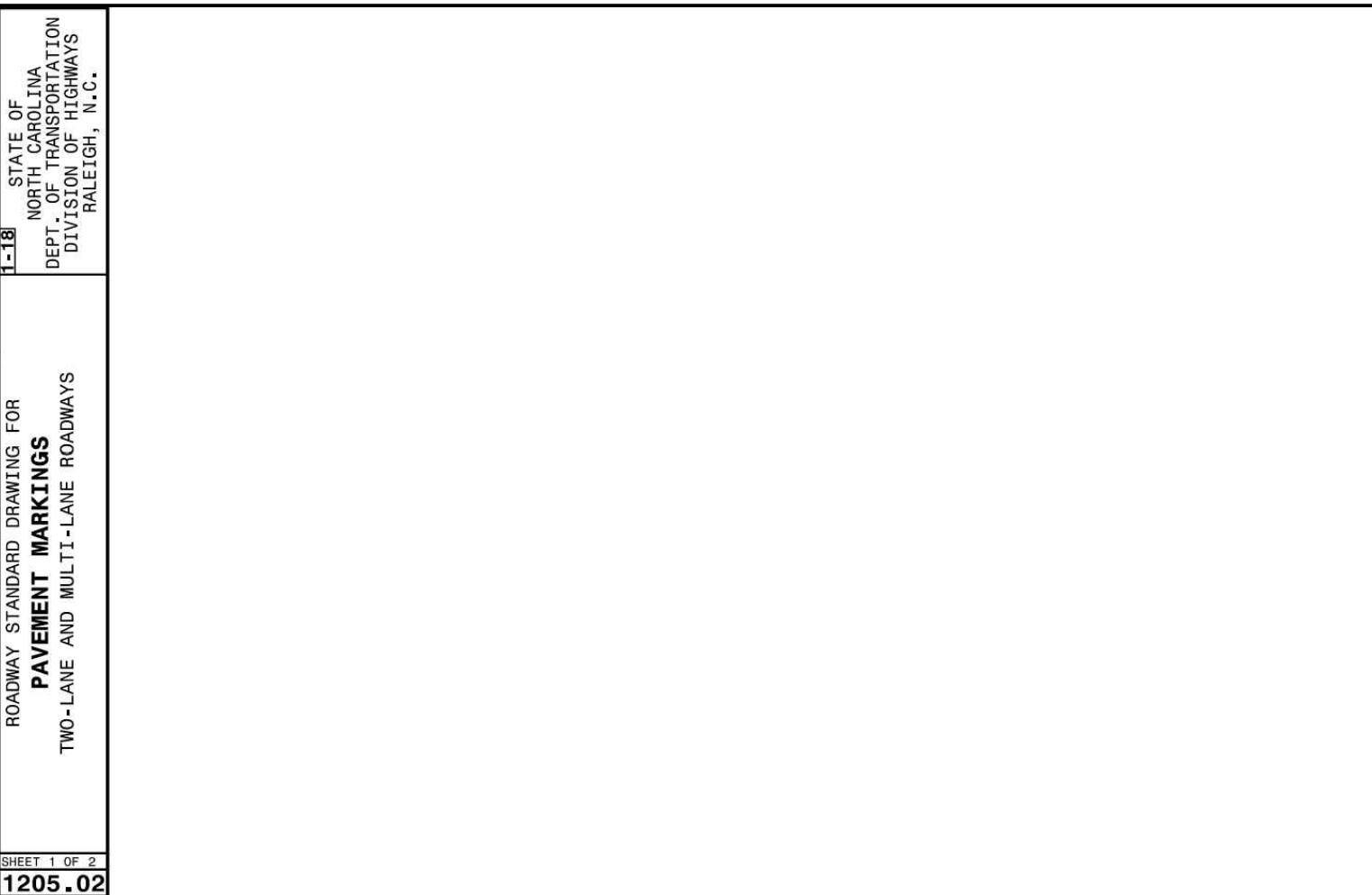
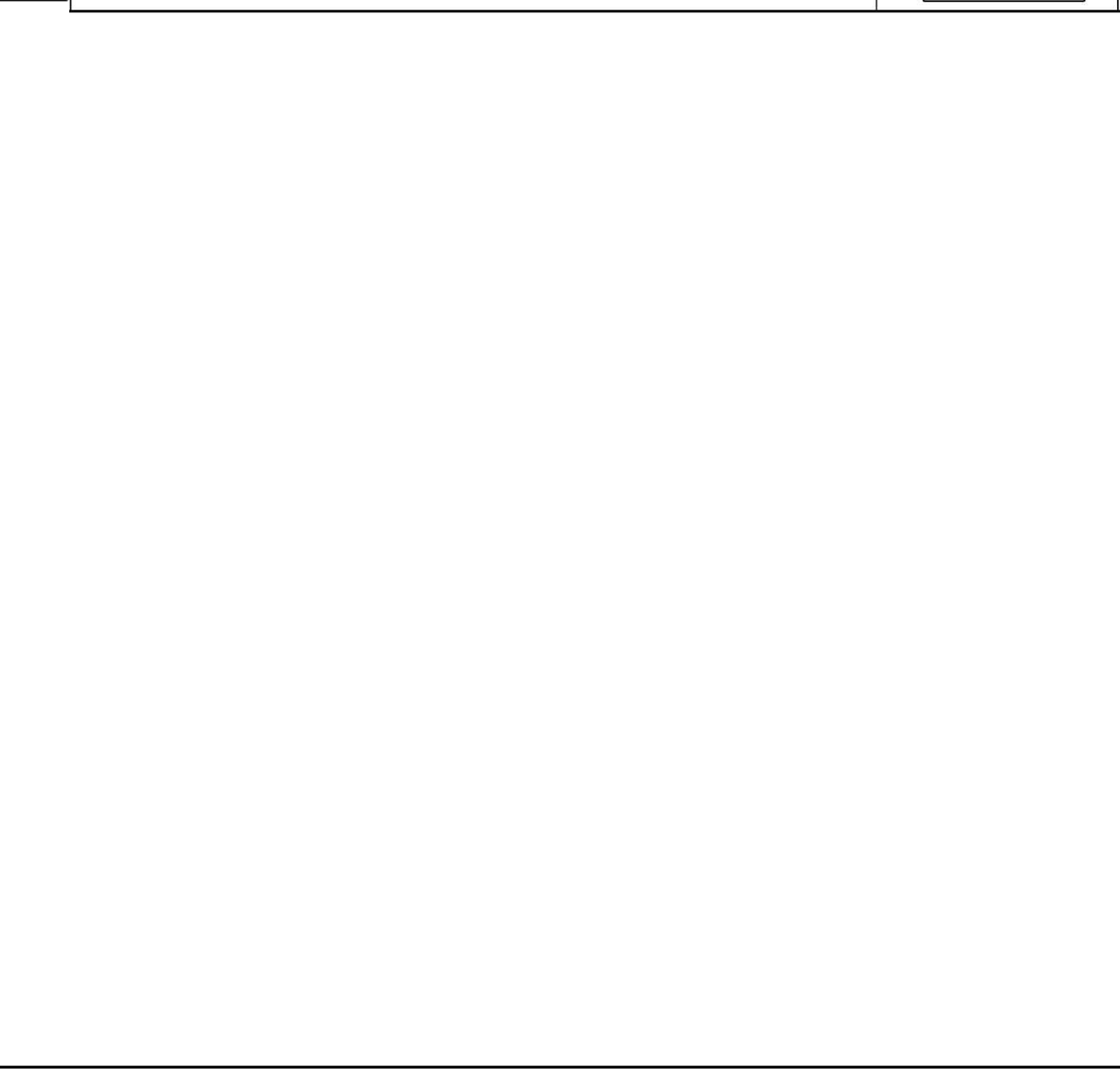
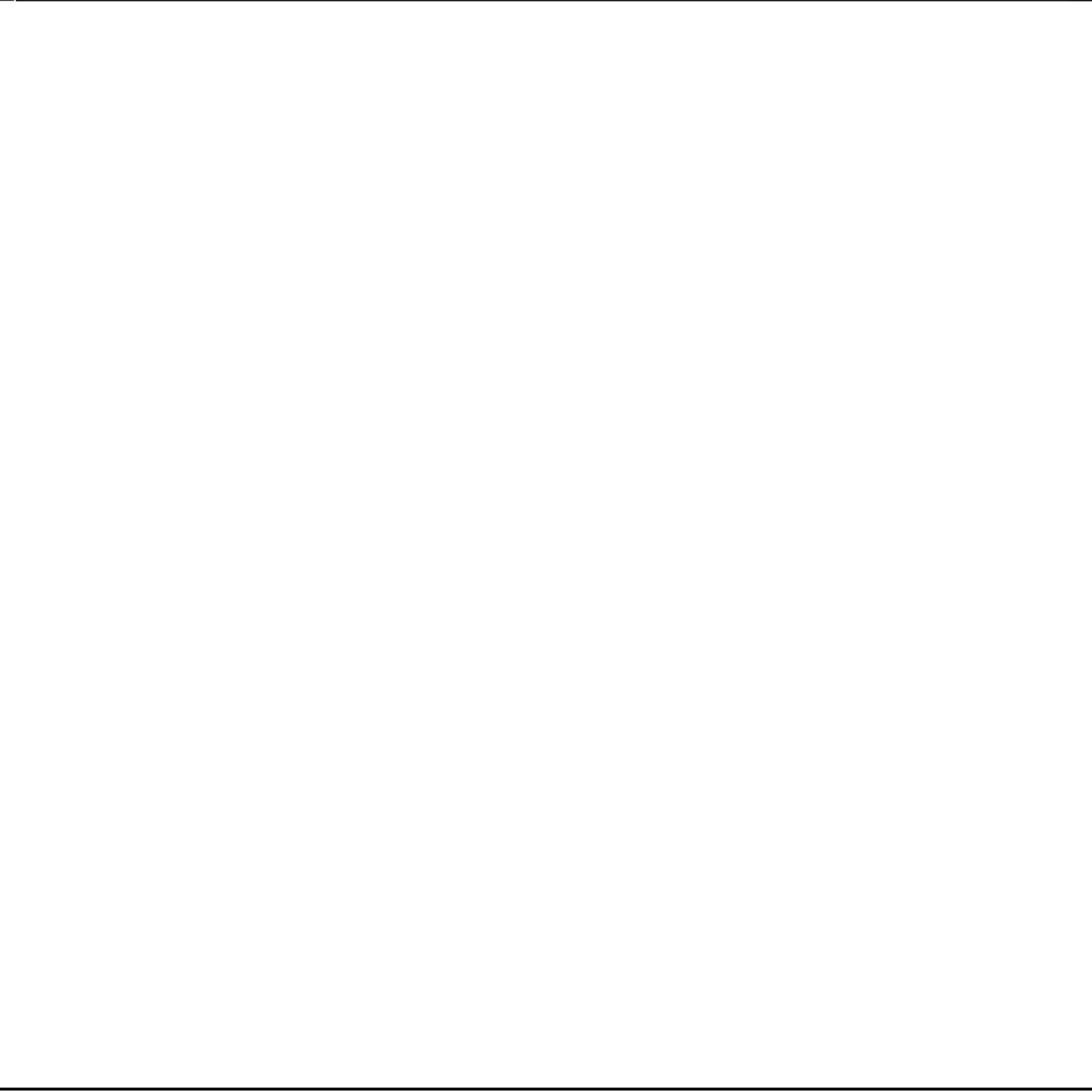
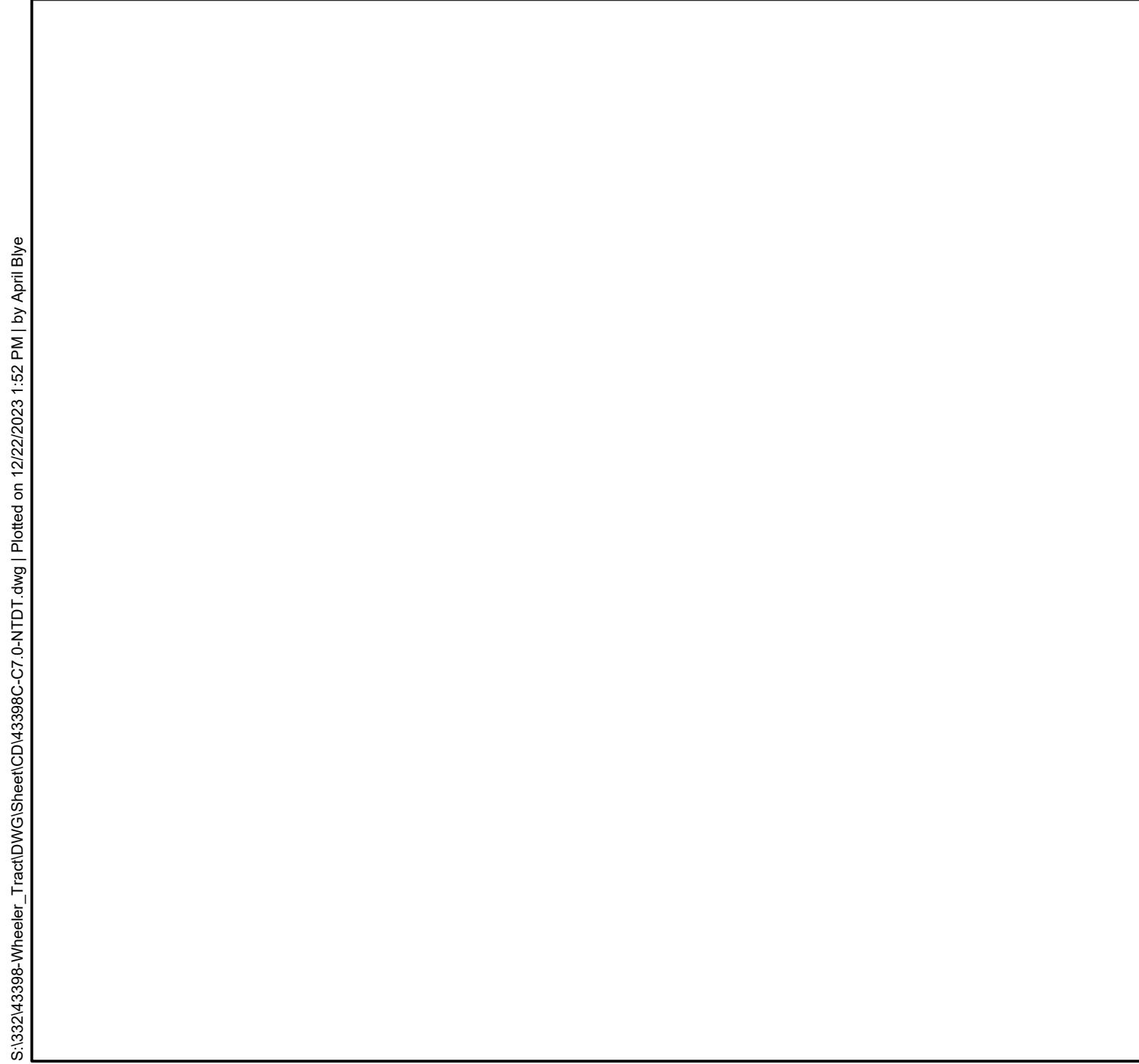
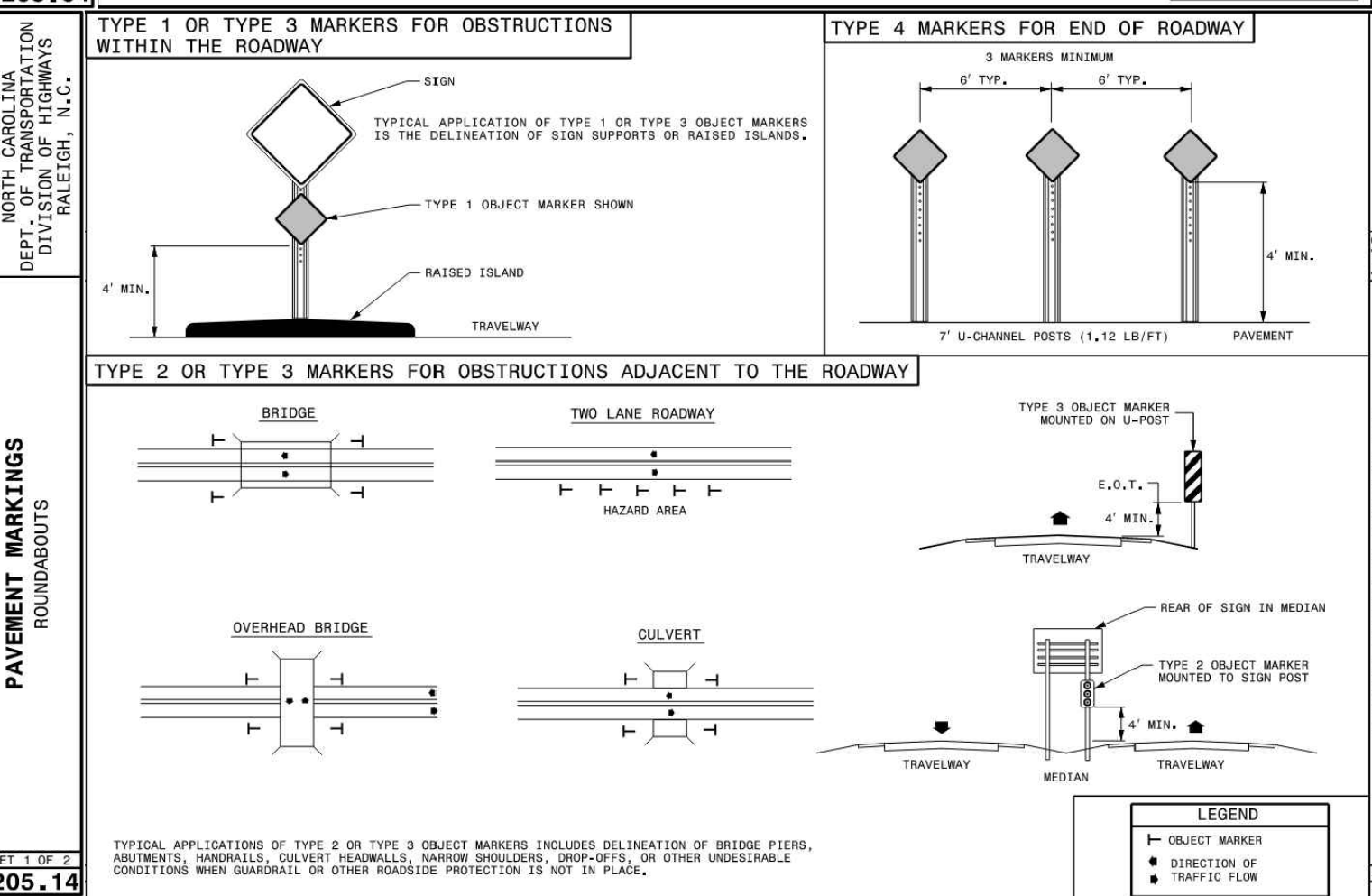
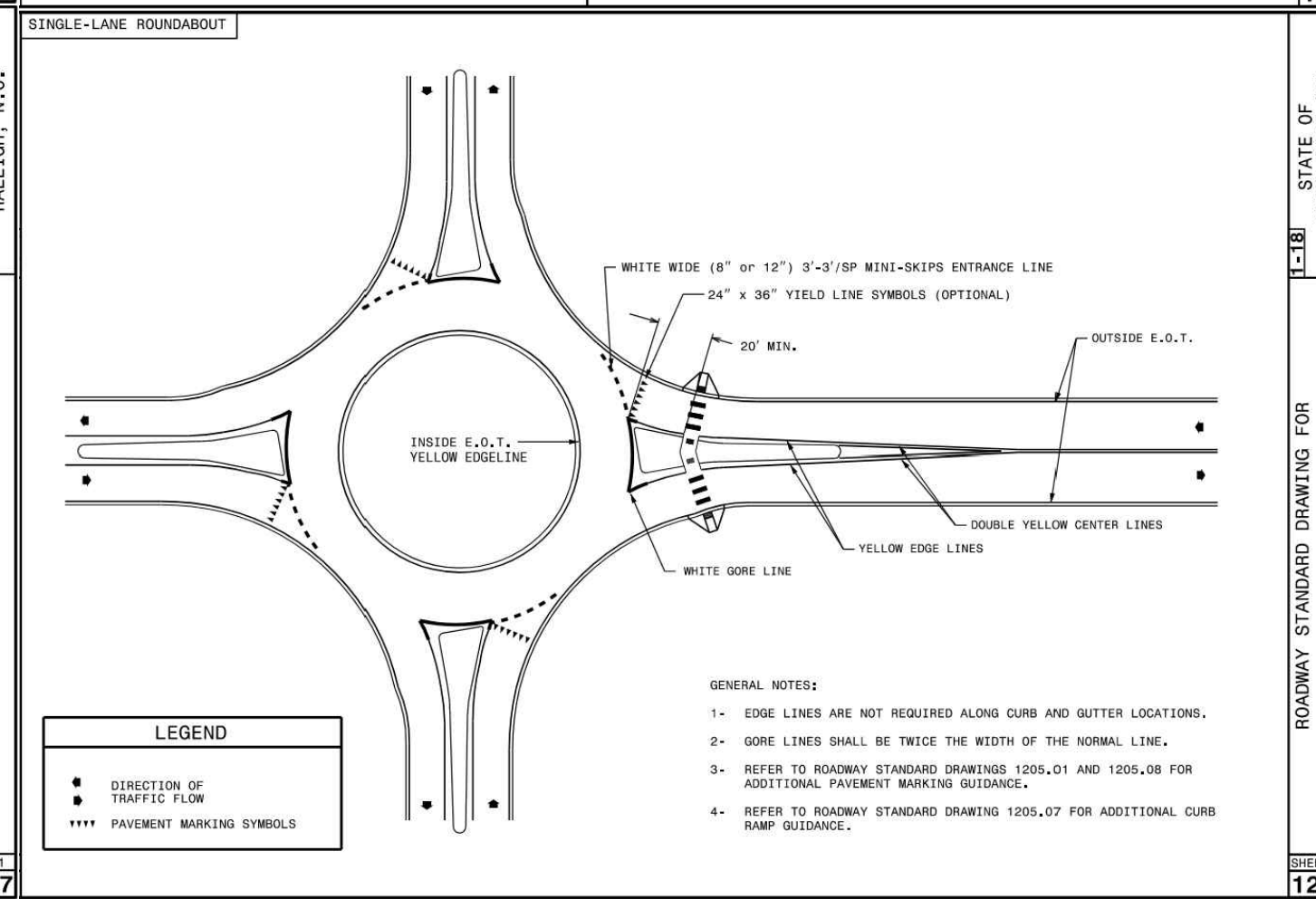
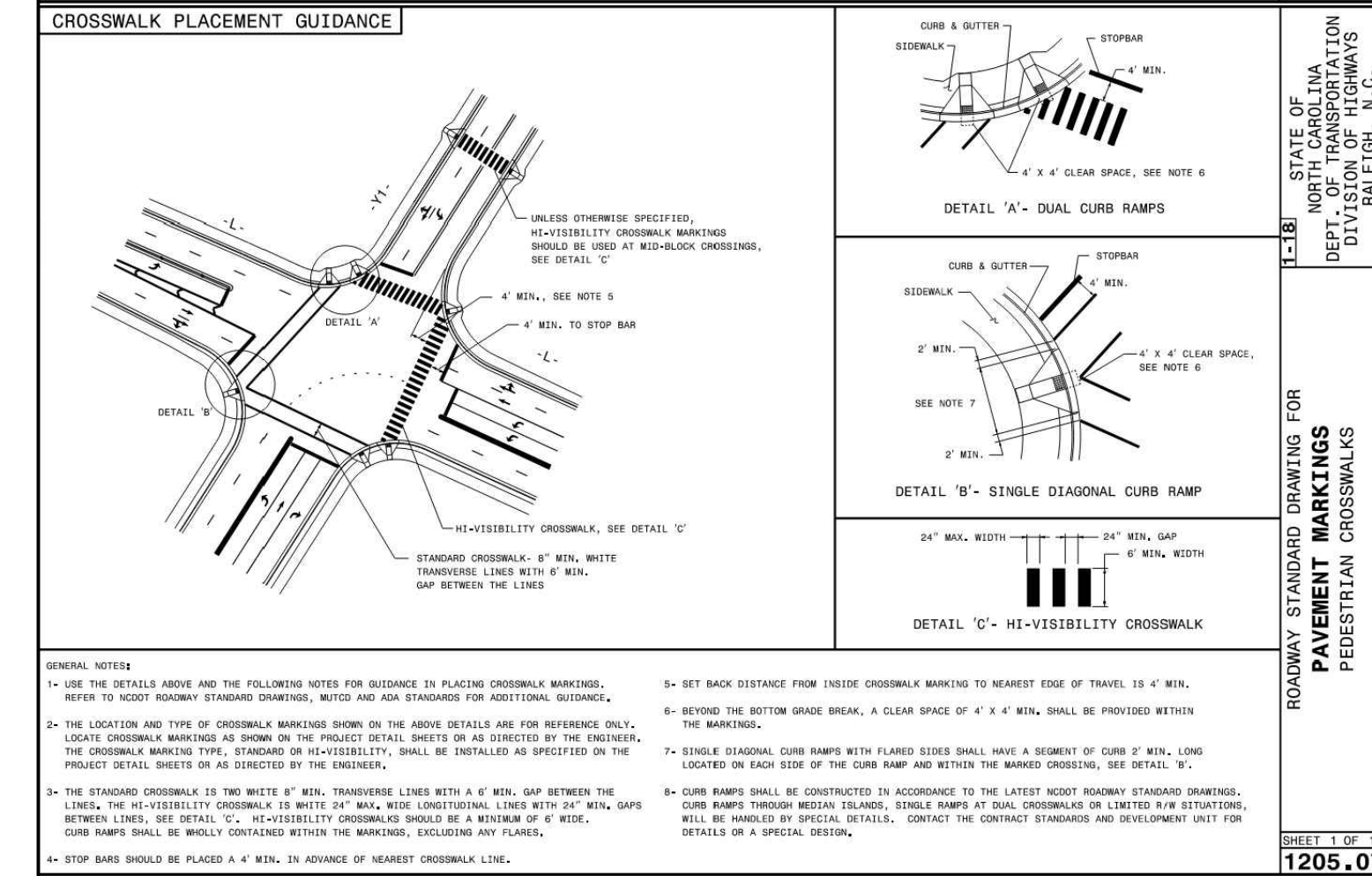
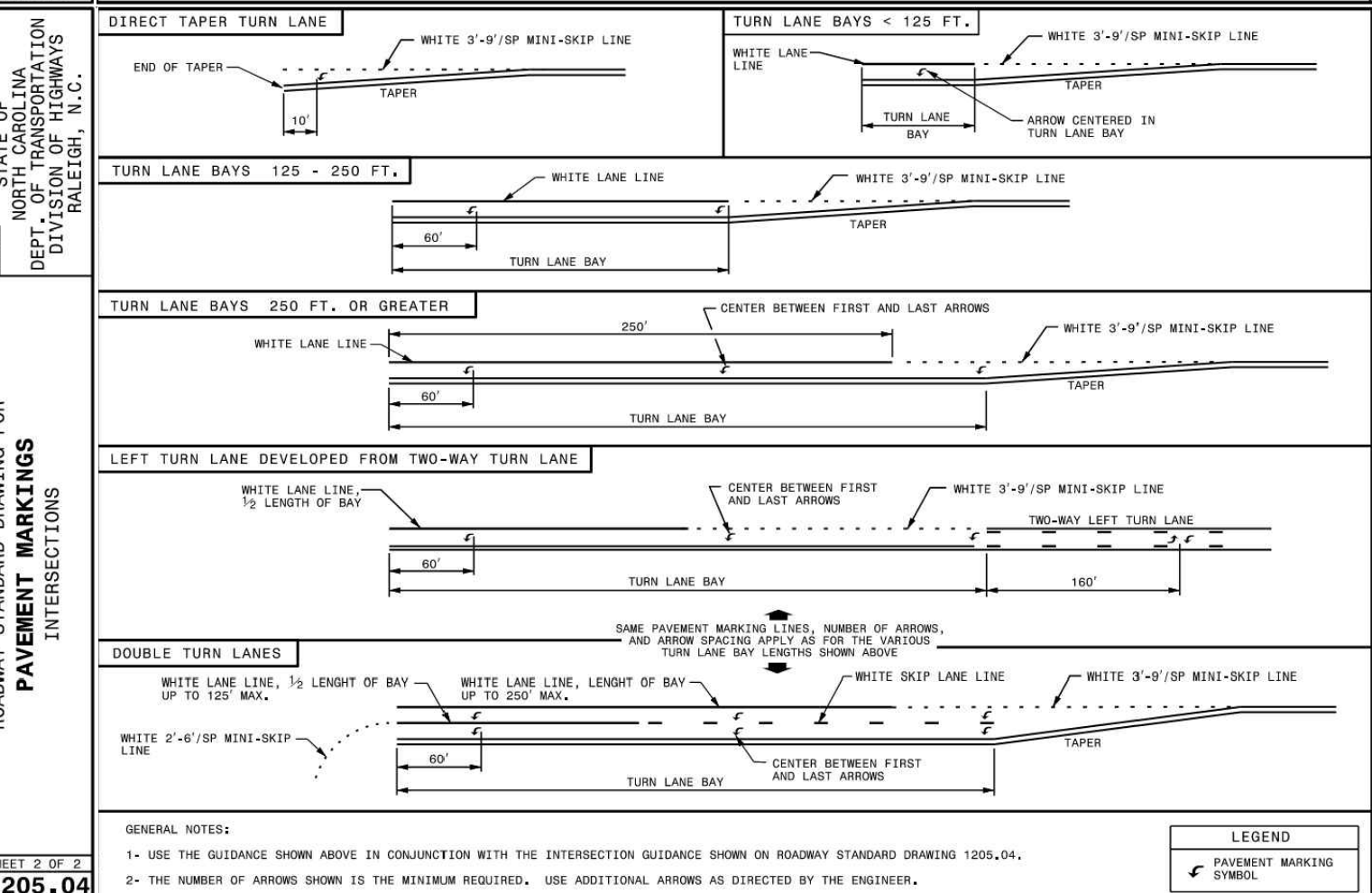
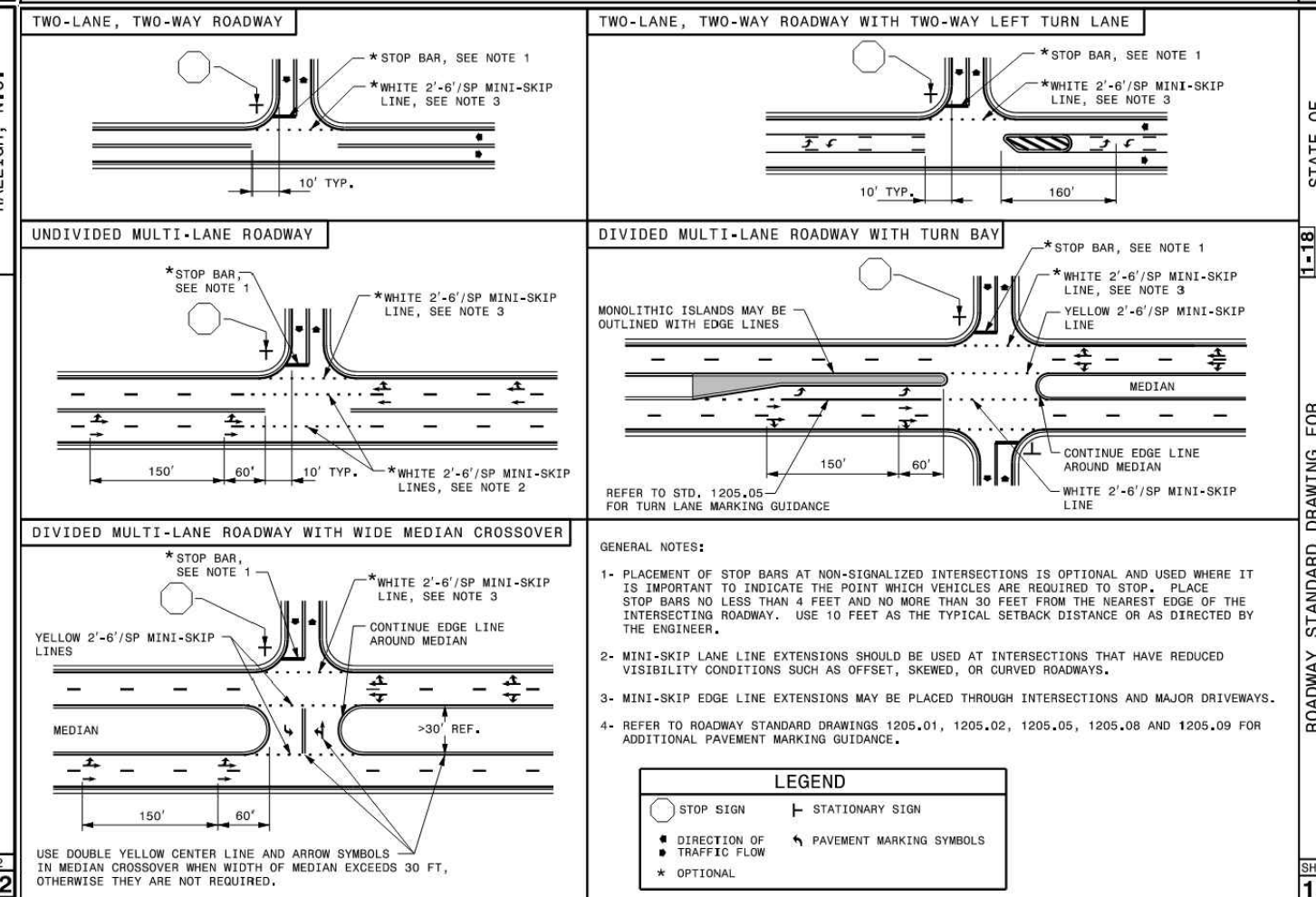
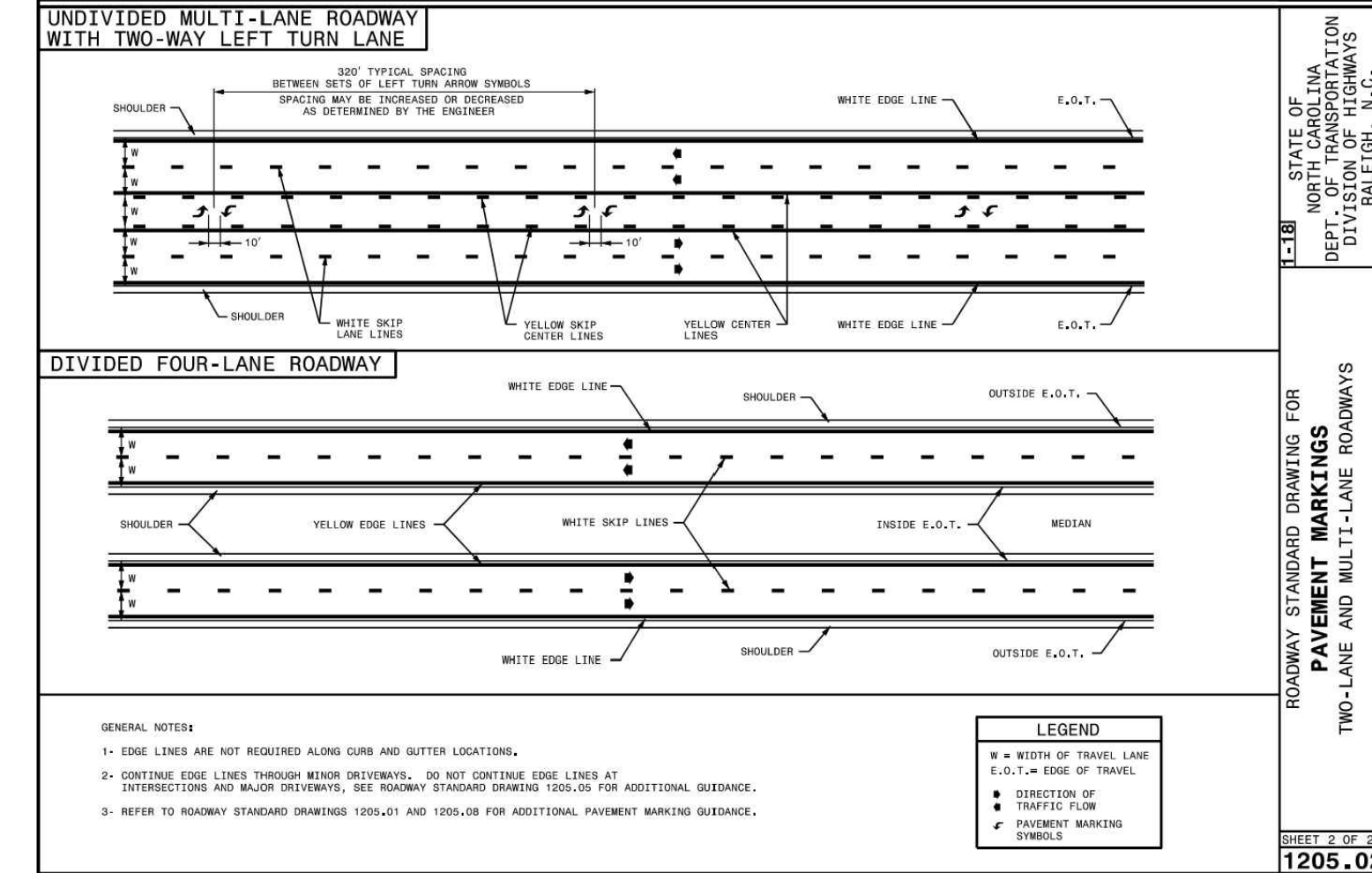
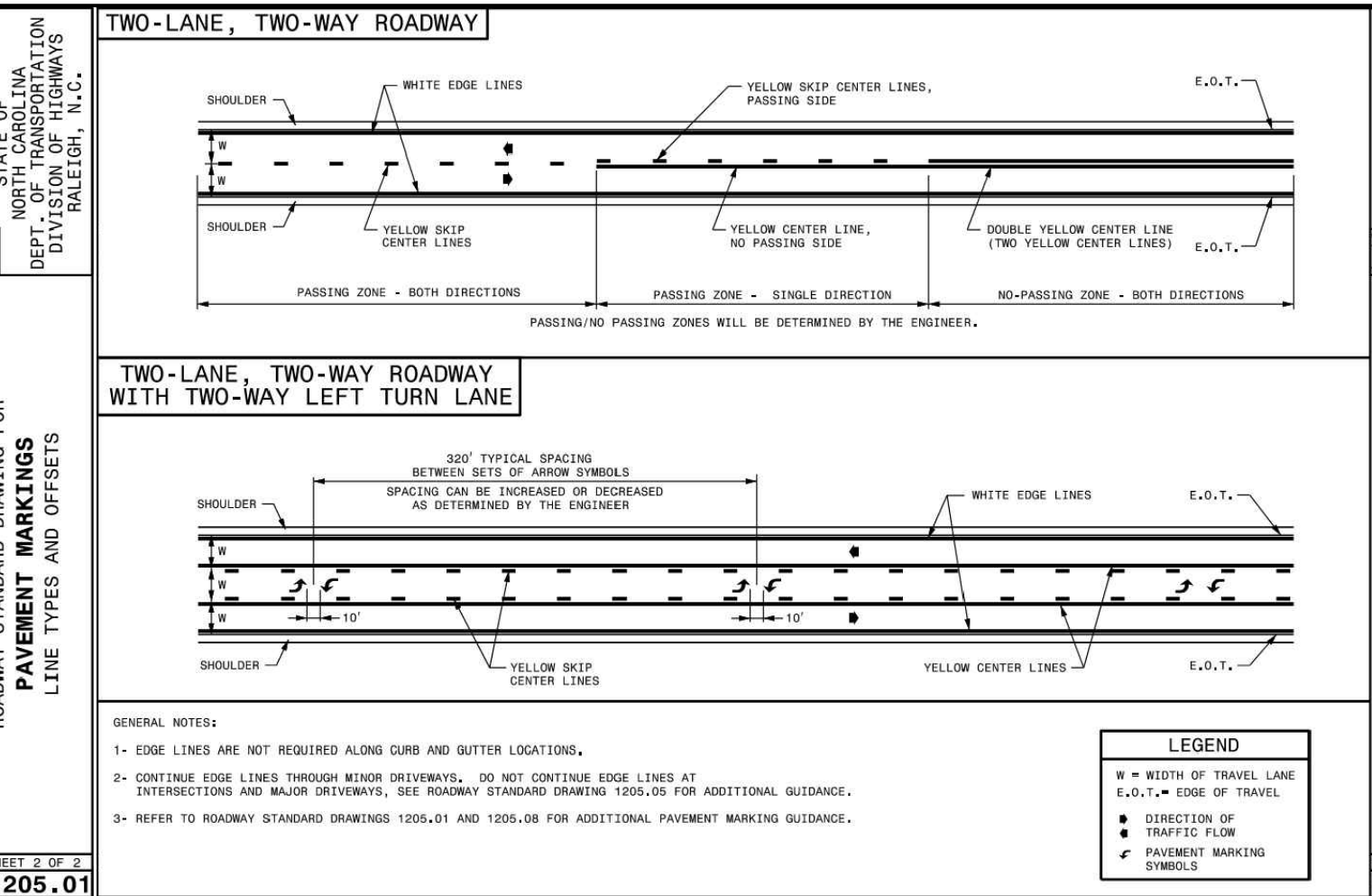
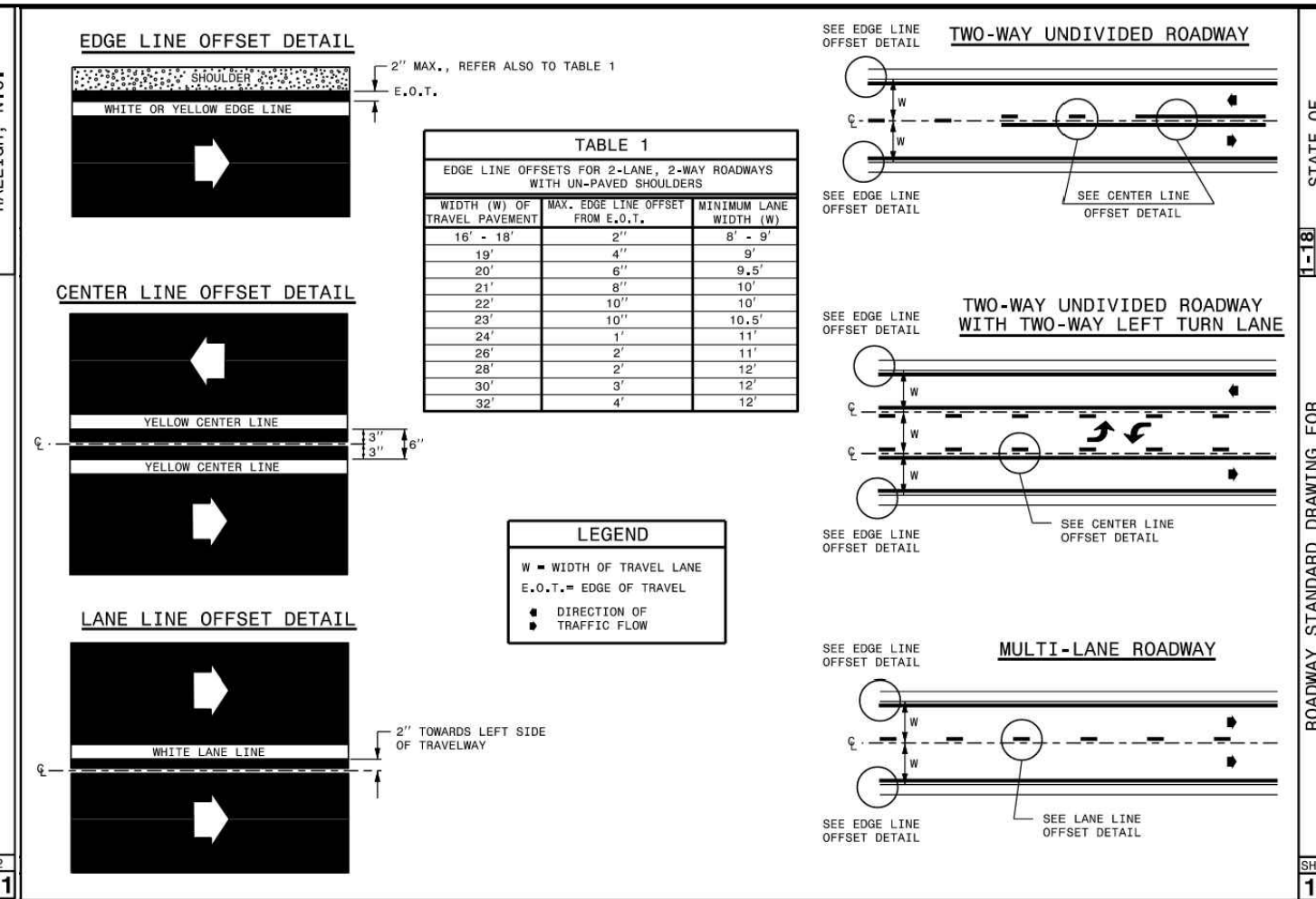
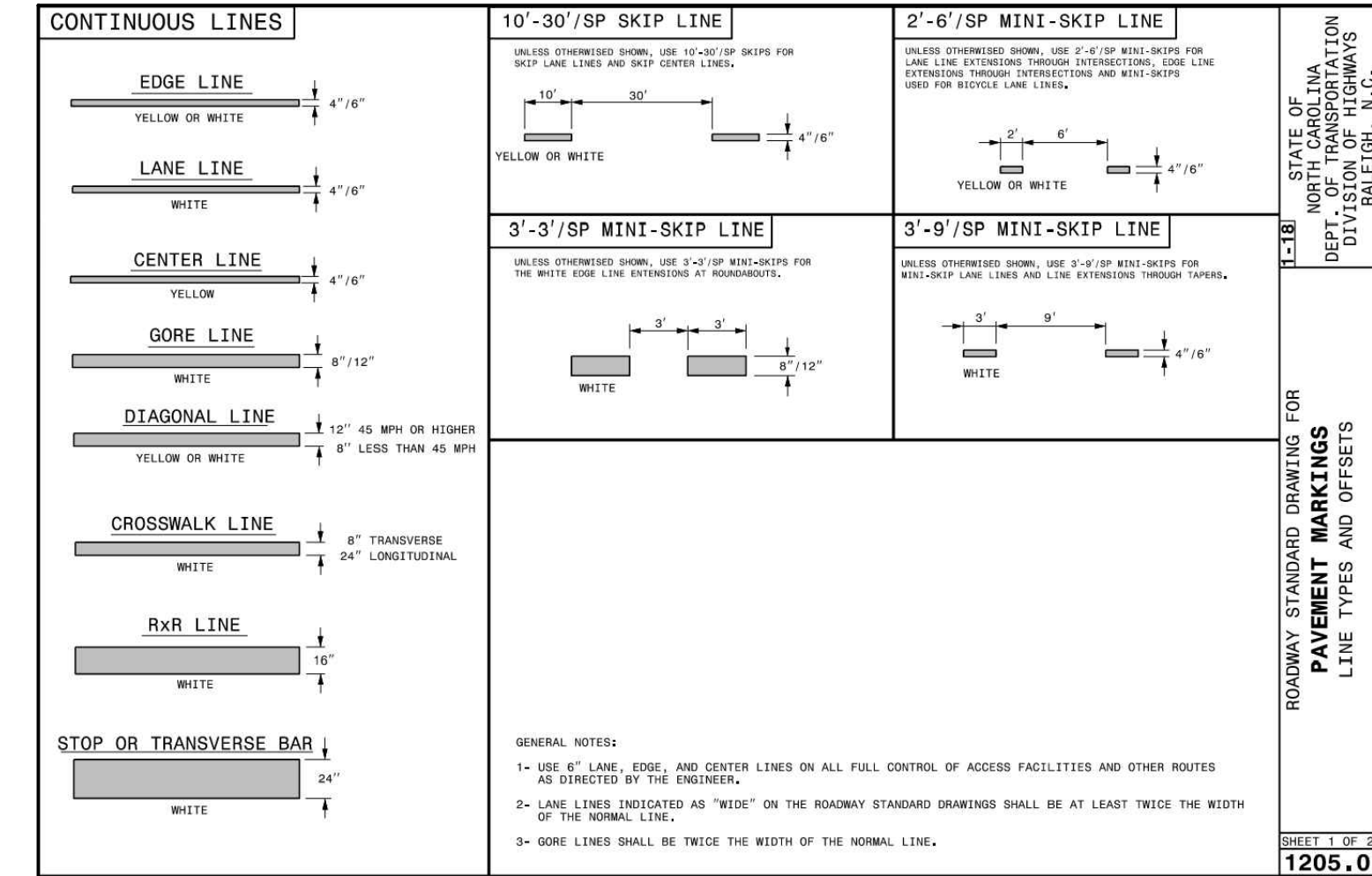
**EROSION CONTROL NOTES AND DETAILS**

JOB NO.  
**43398**

SHEET NO.  
**C7.5**

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS





THIS DRAWING PREPARED AT THE  
**RALEIGH OFFICE**  
 5410 Trinity Road, Suite 102 | Raleigh, NC 27607  
 TEL 919.866.9511 FAX 919.833.8124 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE: 06/24/2022  
 REVISIONS PER WAKE COUNTY COMMENTS: 07/22/2022  
 CONSTRUCTION DOCUMENT SUBMITTAL: 04/06/2023  
 REVISIONS PER NCDOT COMMENTS: 09/06/2023  
 REVISIONS PER CITY OF RALEIGH COMMENTS: 01/02/2024

DATE: 09/17/2021  
 DRAWN BY: R. WINGATE  
 DESIGNED BY: P. BARBEAU  
 CHECKED BY: P. BARBEAU  
 SCALE: AS SHOWN

**TIMMONS GROUP**

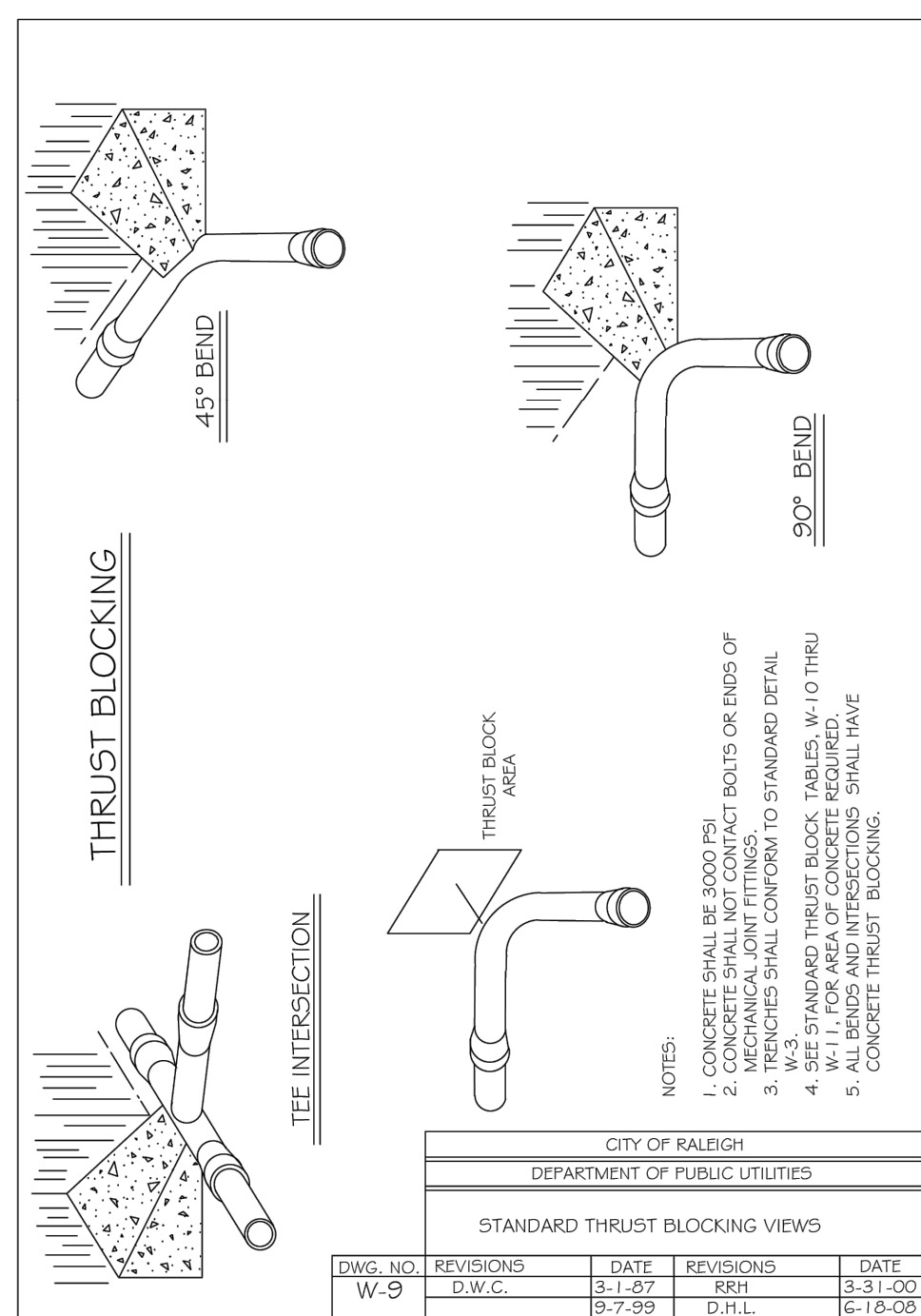
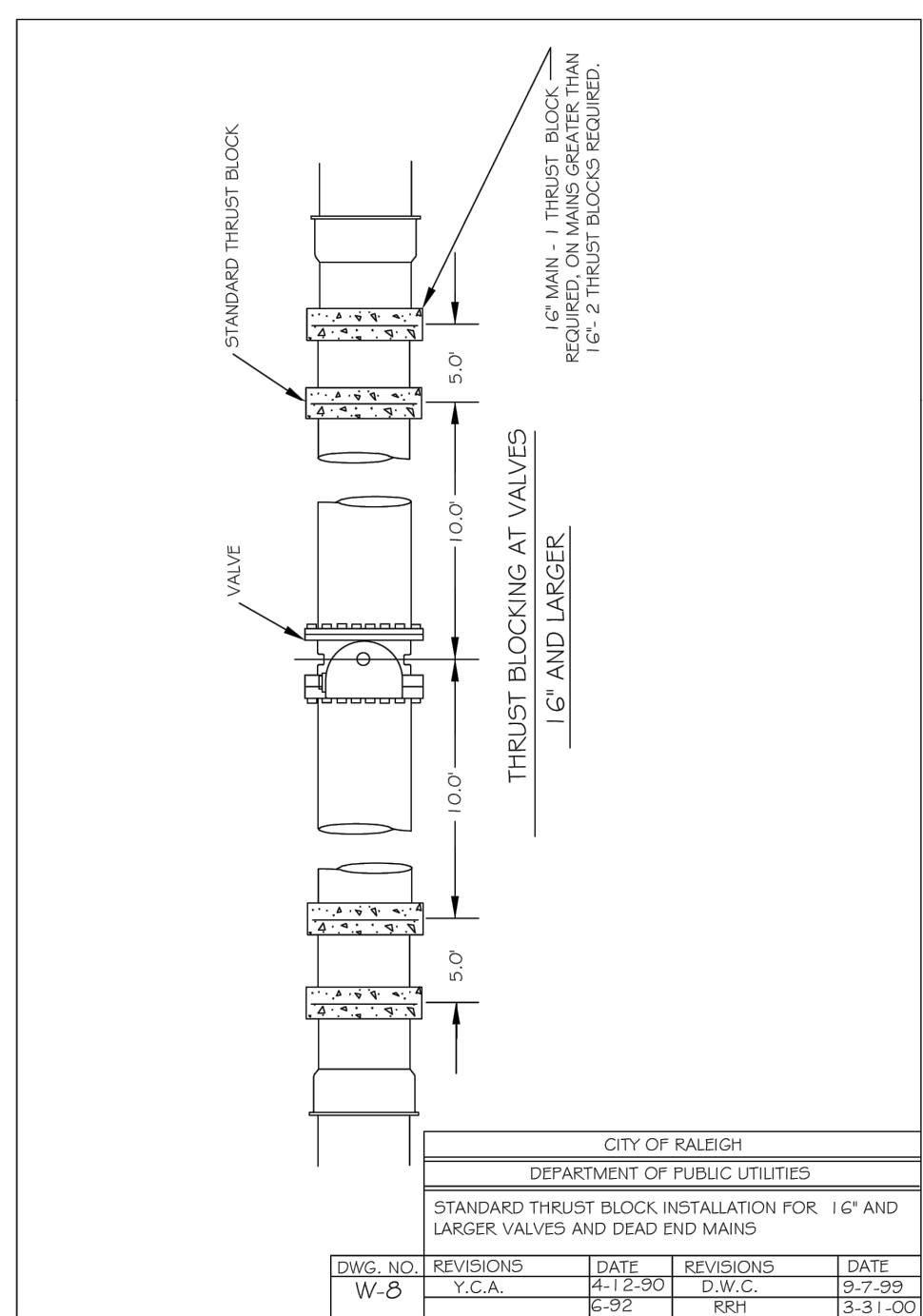
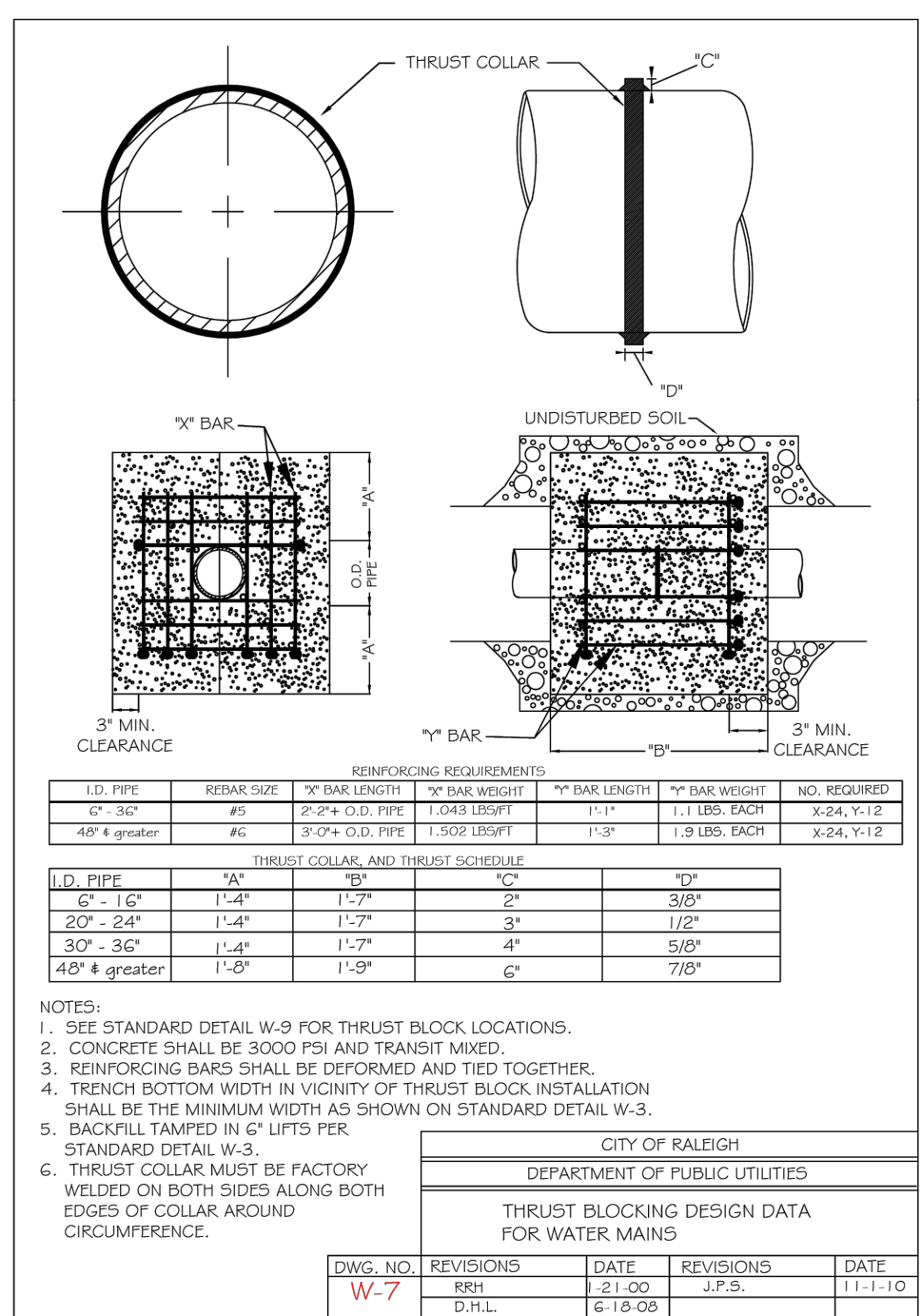
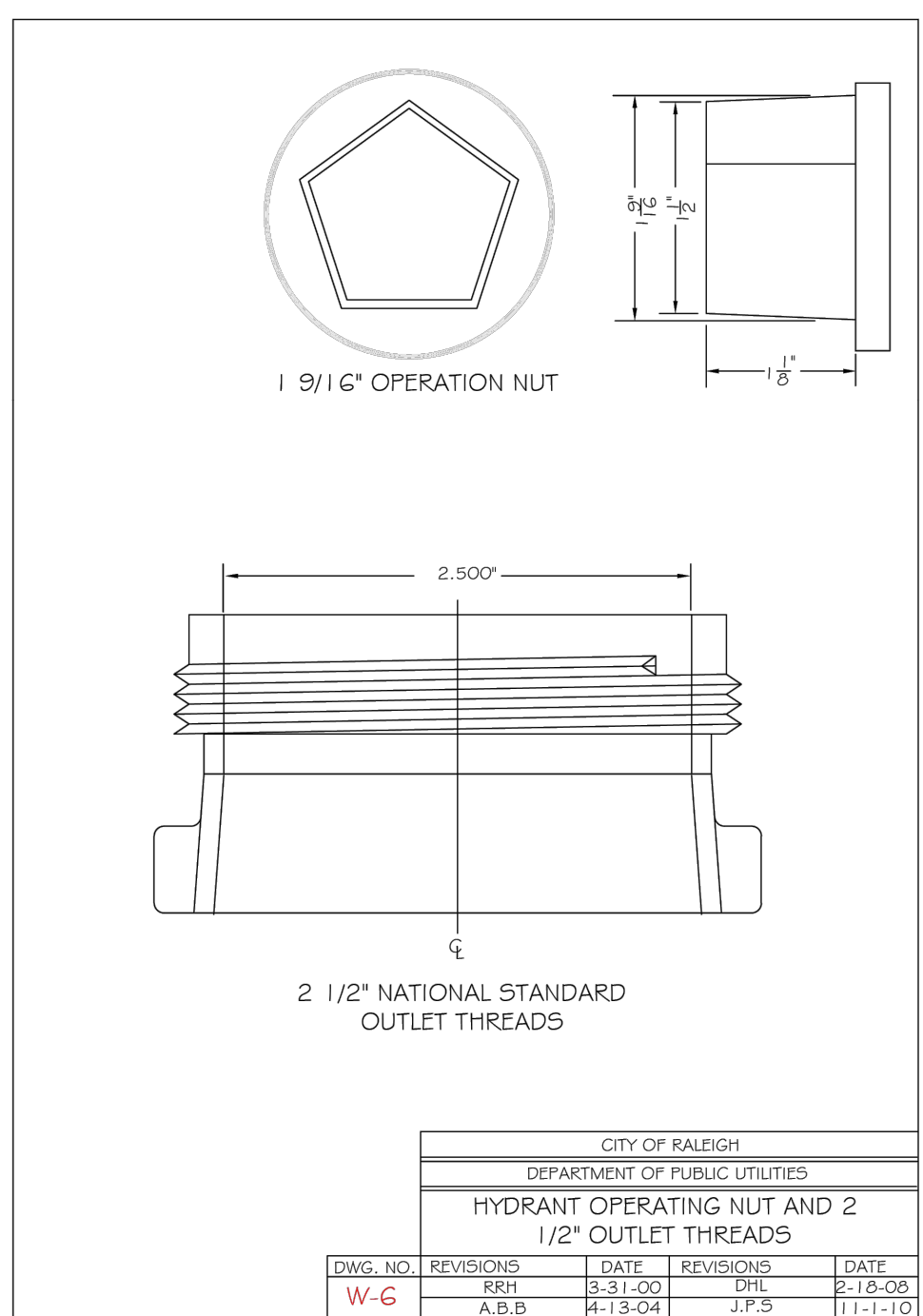
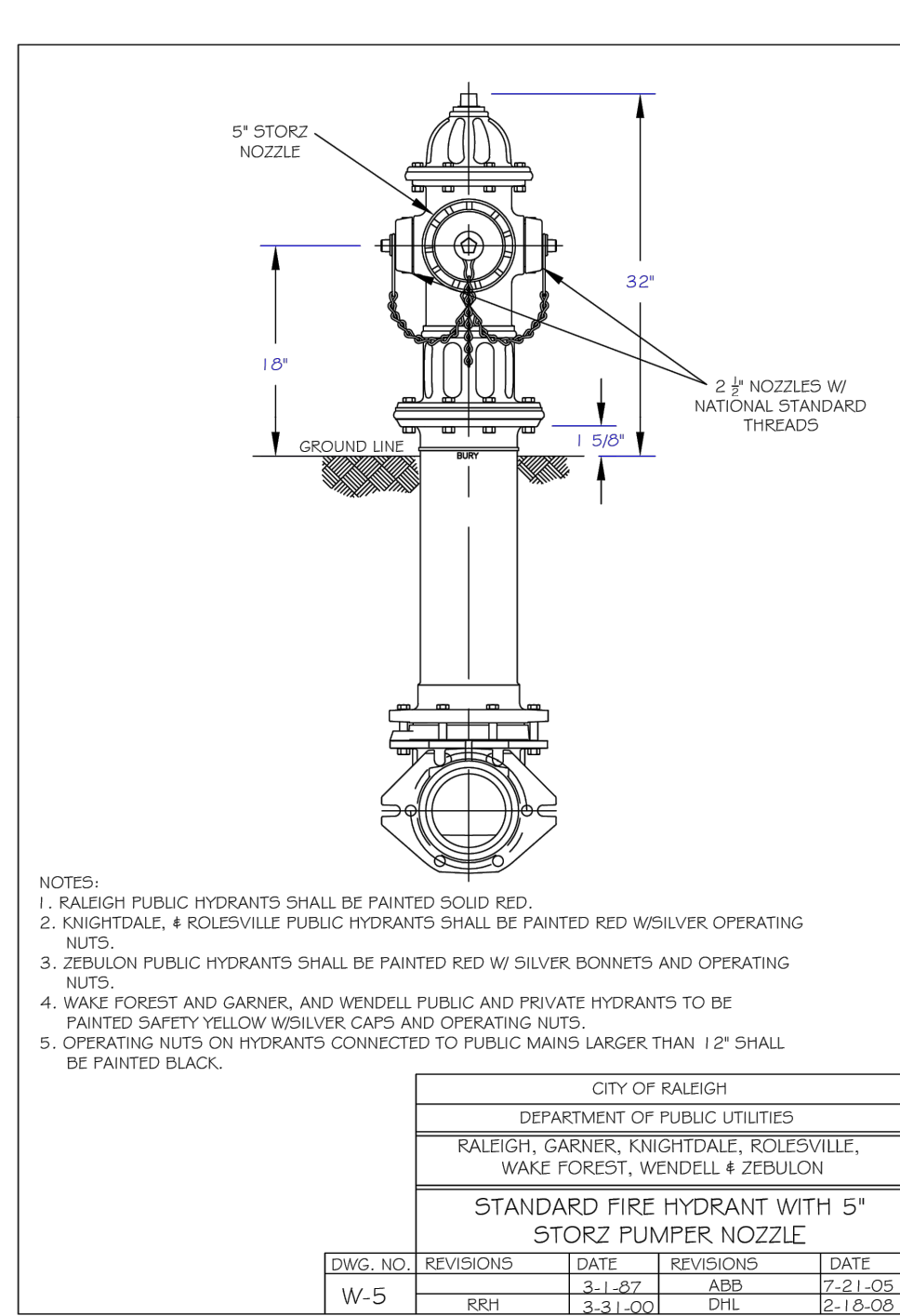
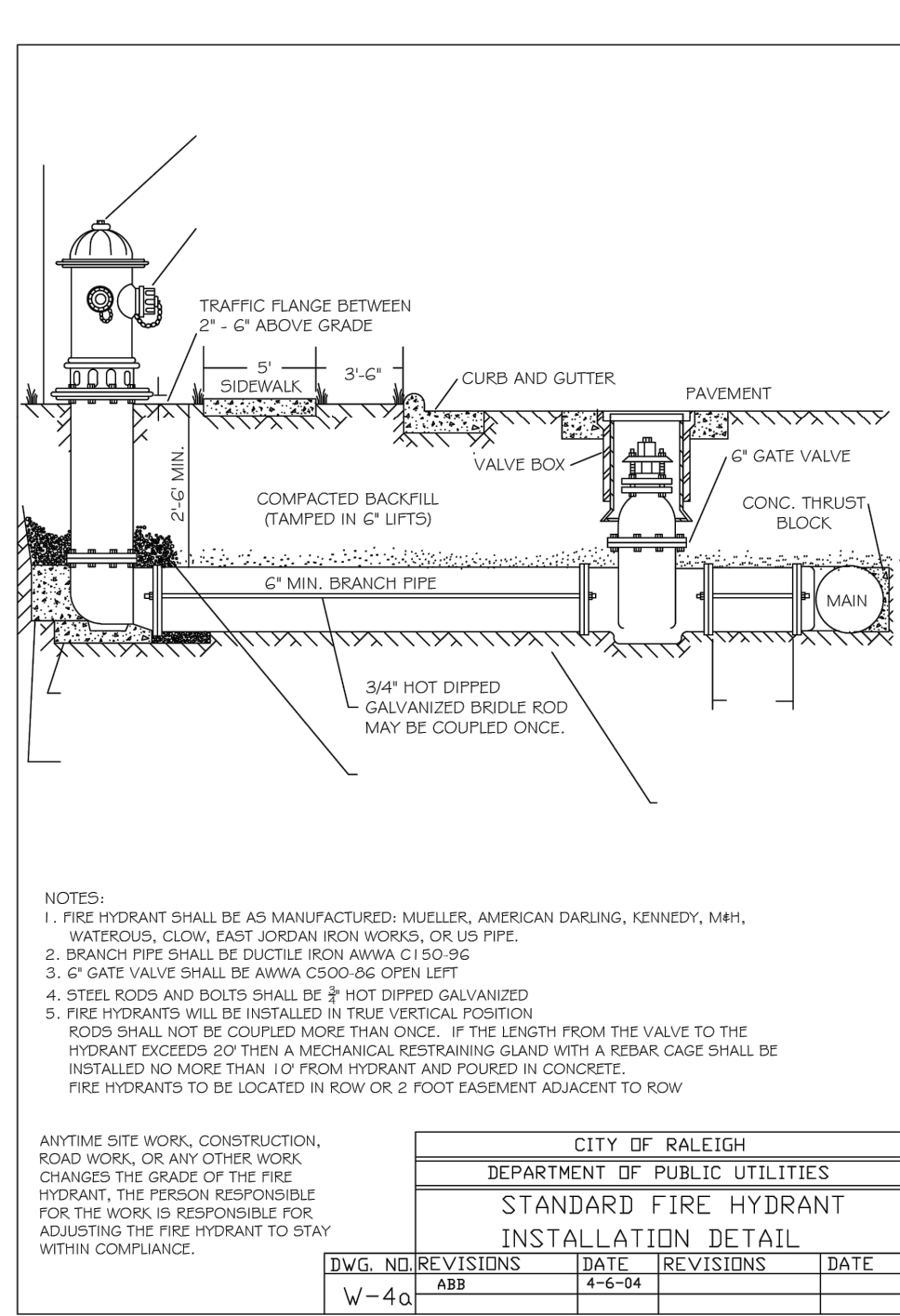
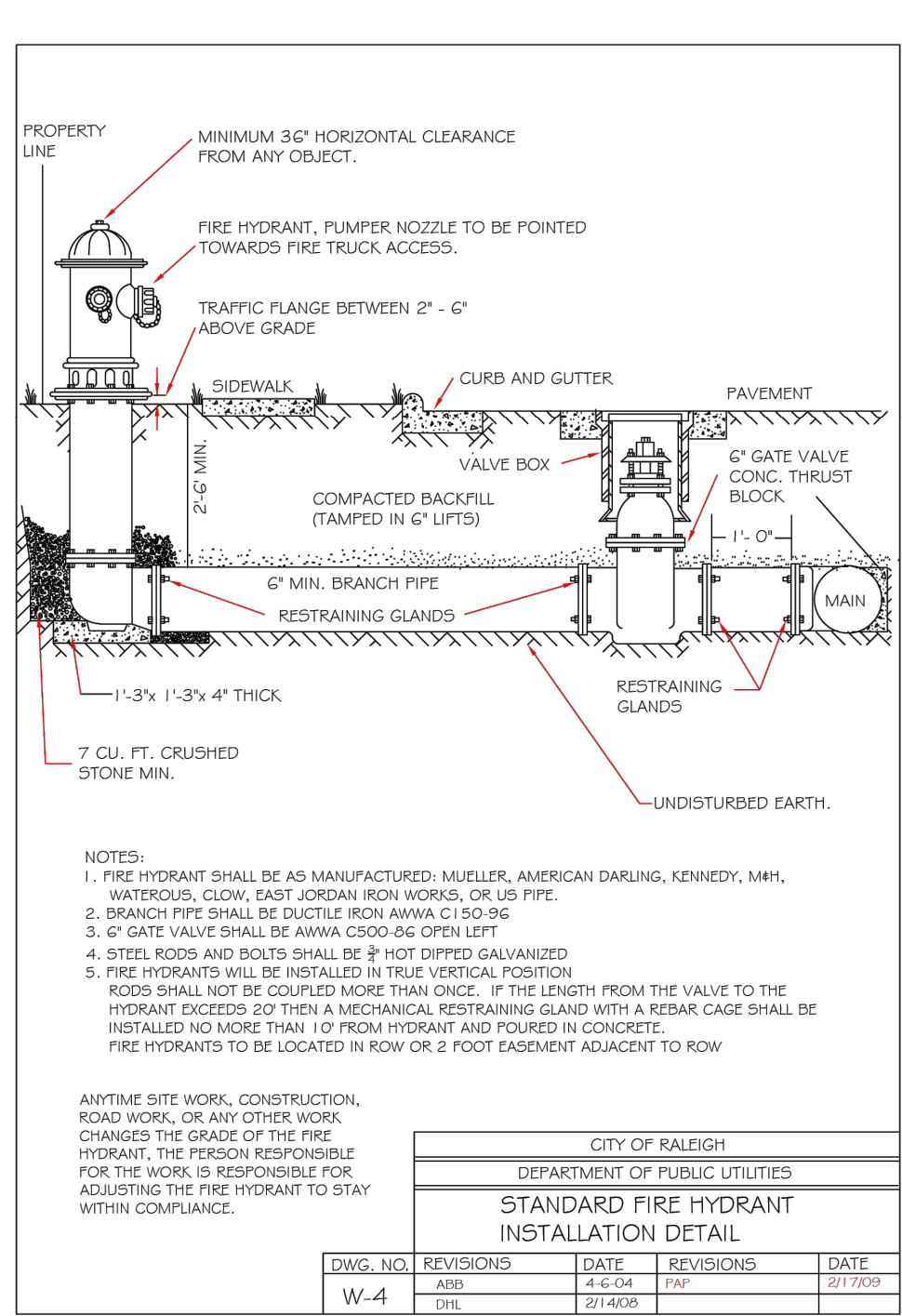
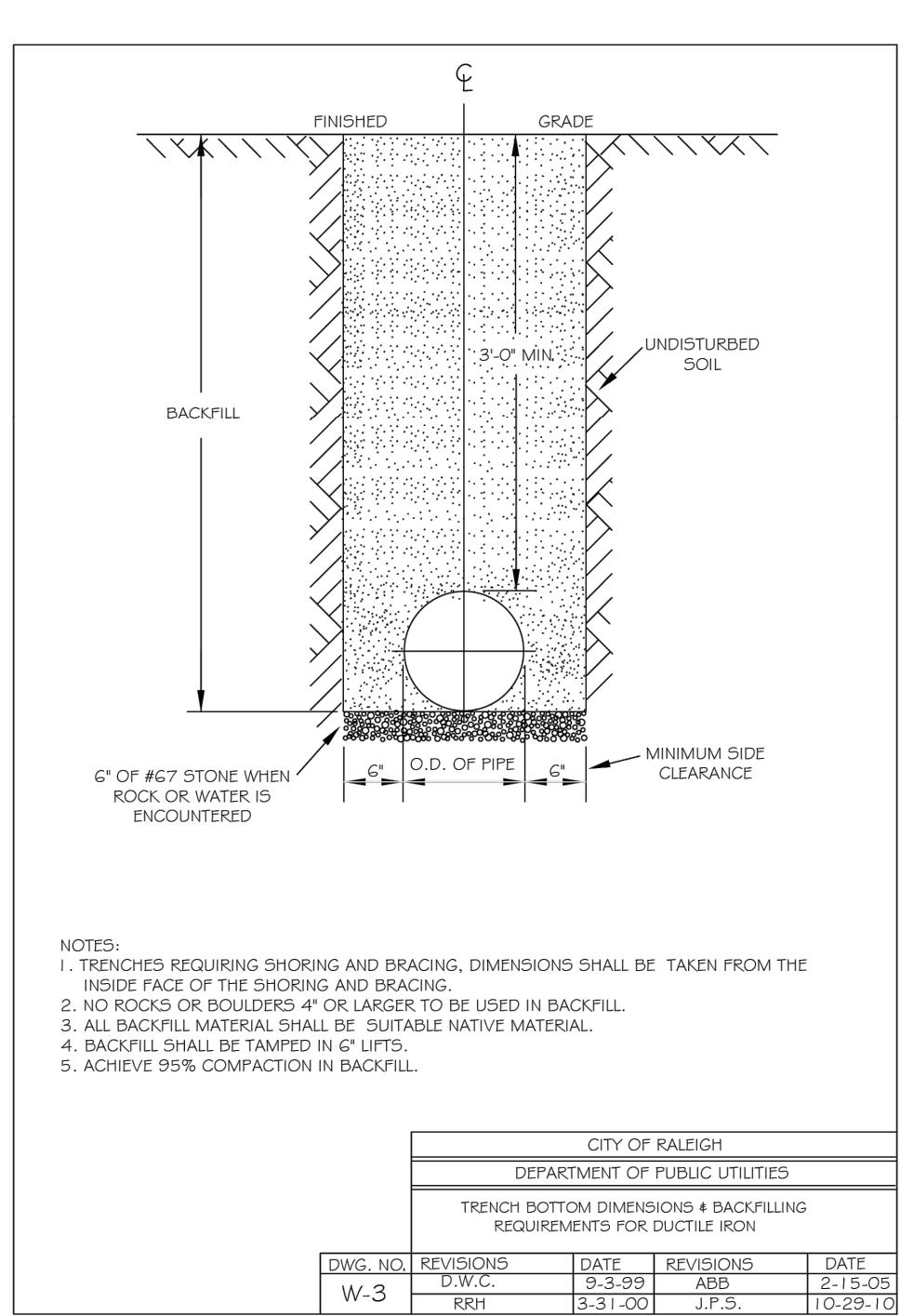
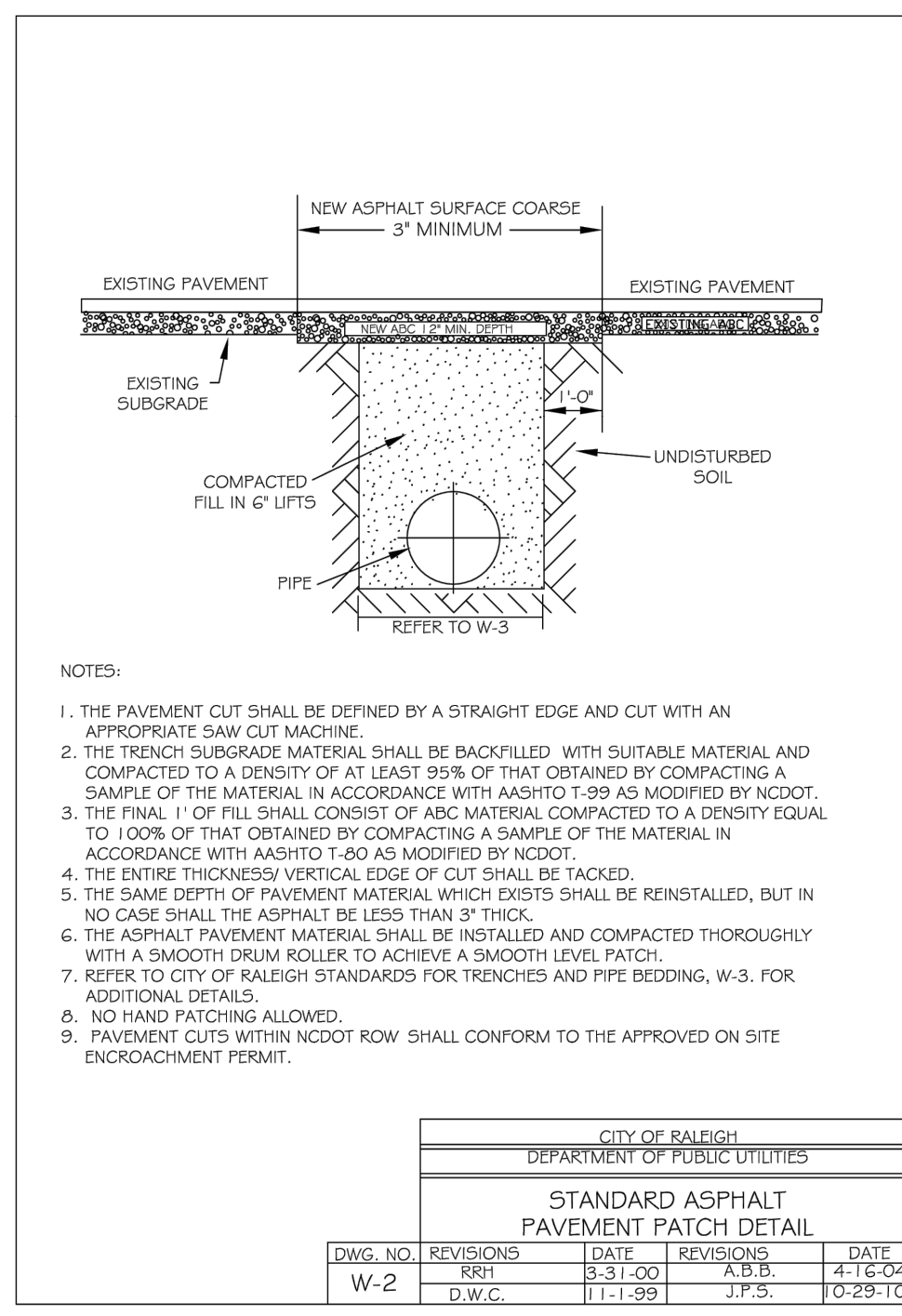
NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
 WAKE COUNTY - NORTH CAROLINA  
 NCDOT DETAILS

JOB NO. 43398  
 SHEET NO. C7.7

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ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

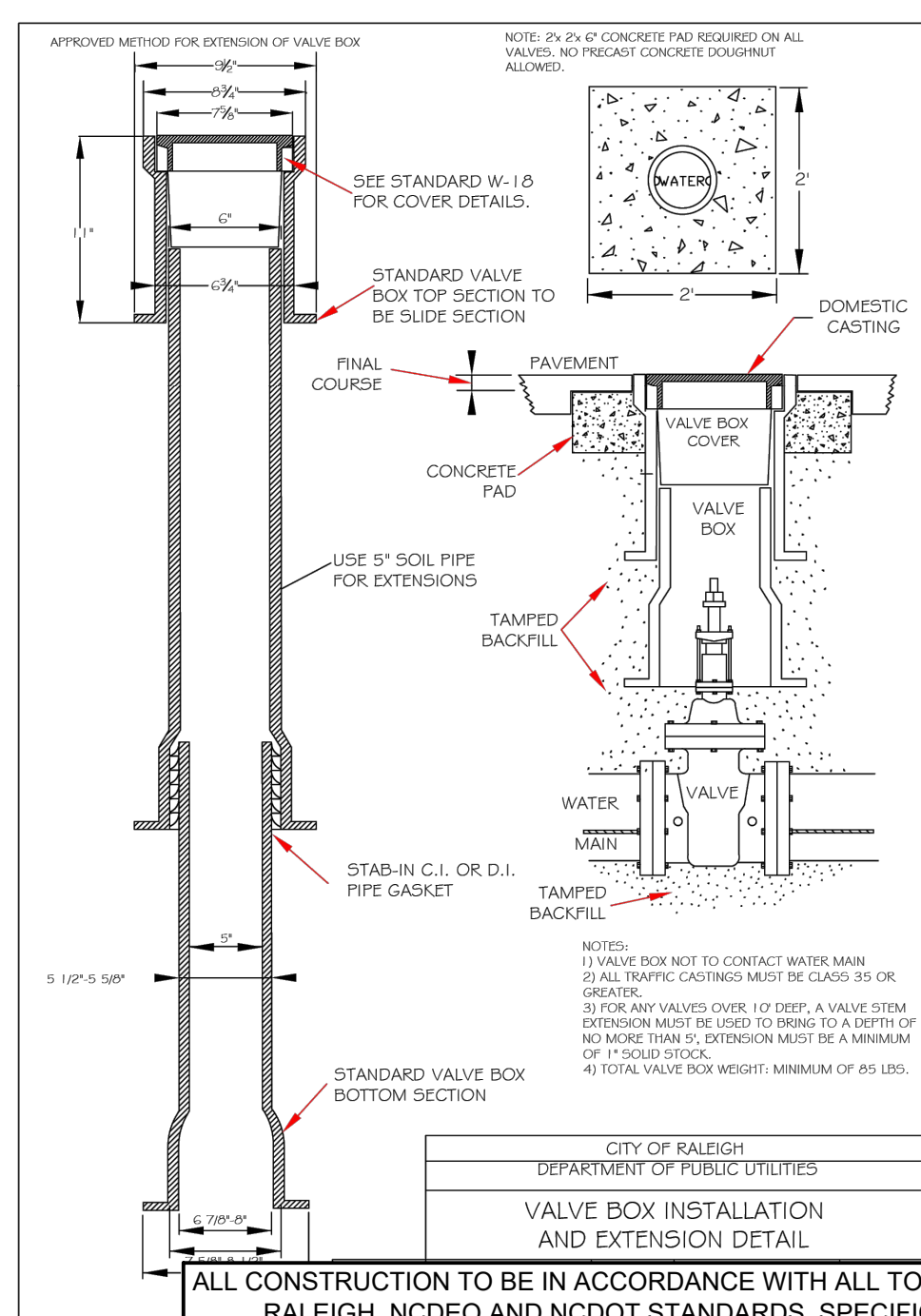
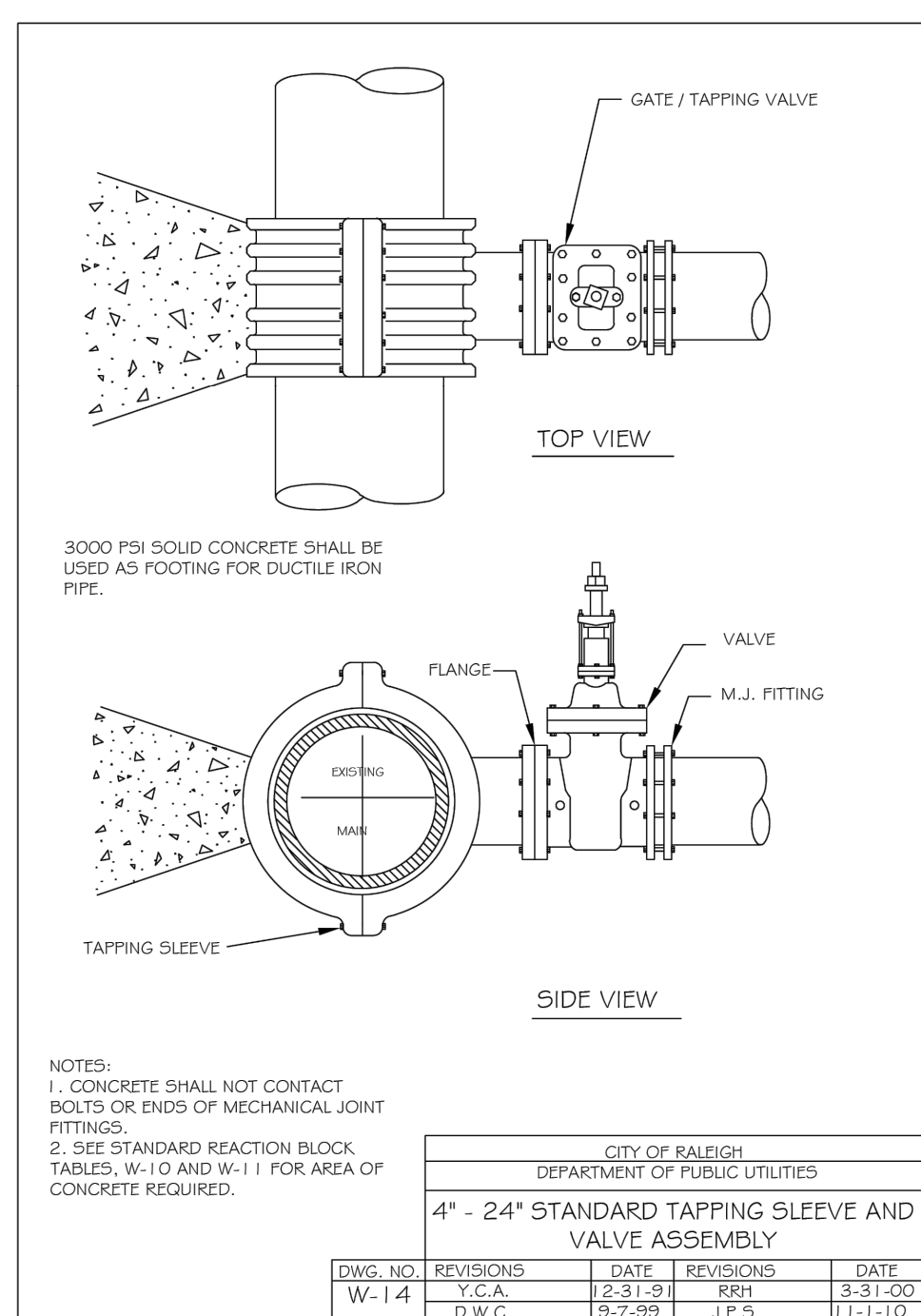
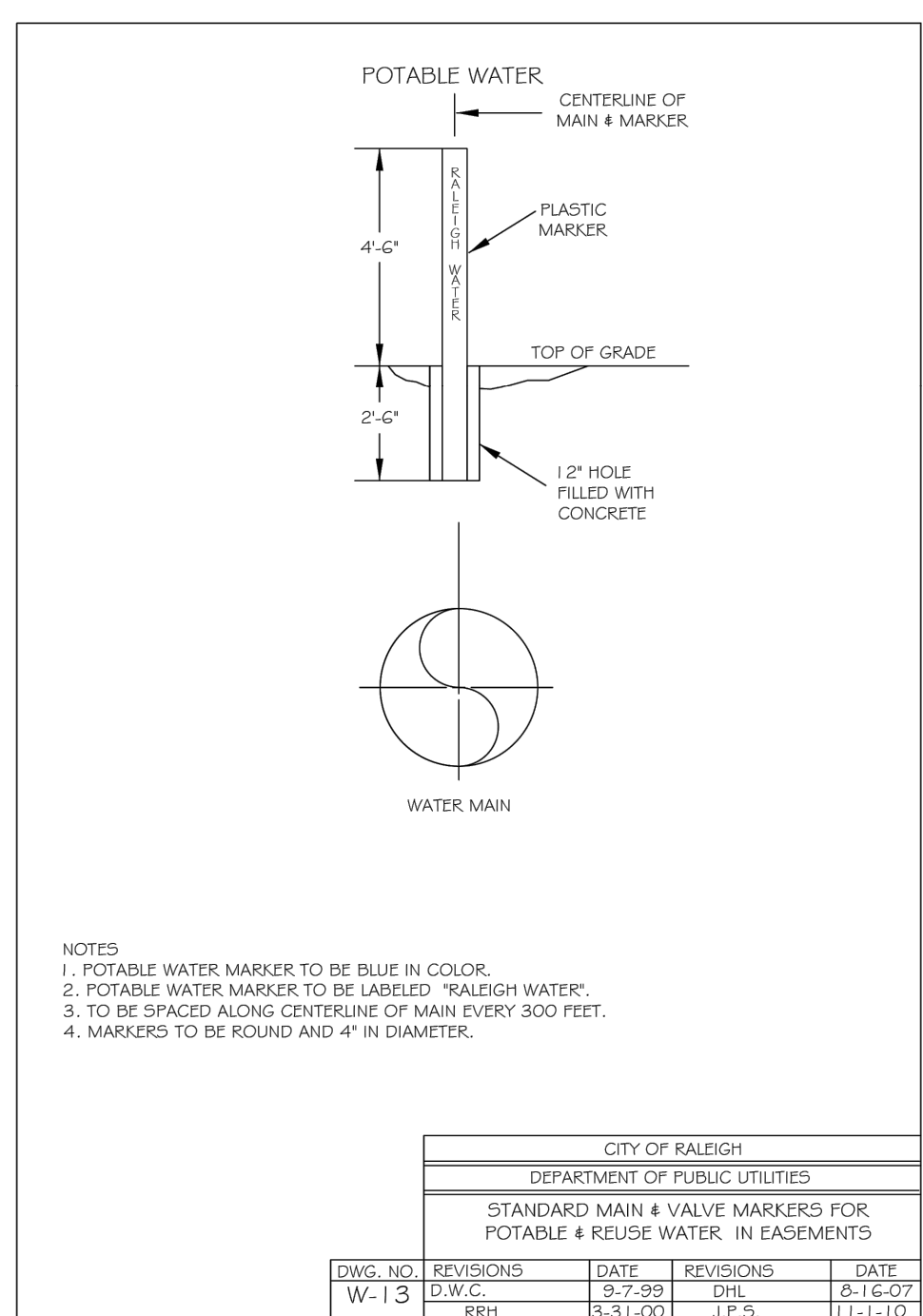
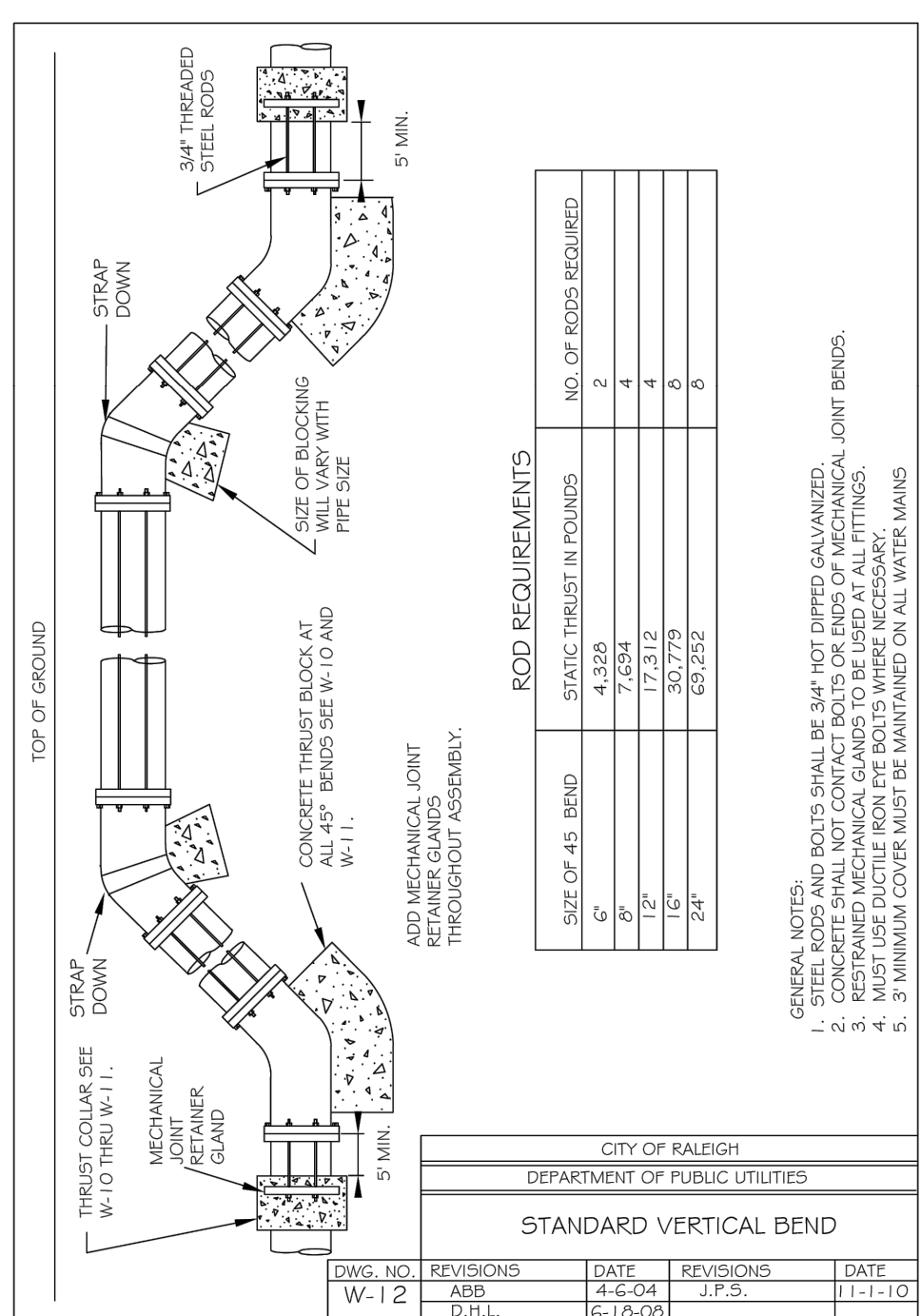


**REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS**  
BASED ON TEST PRESSURE OF 200 P.S.I.

SIZE AND DEGREE OF BEND	STATIC THRUST IN POUNDS	REACTION BEARING AREA IN SQUARE FEET																				
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**REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS**  
BASED ON TEST PRESSURE OF 200 P.S.I.

SIZE AND DEGREE OF BEND	STATIC THRUST IN POUNDS	REACTION BEARING AREA IN SQUARE FEET																					
24\"/> <tr> <td>11 1/4\"/&gt; <tr> <td>22 1/2\"/&gt; <tr> <td>45\"/&gt; <tr> <td>90\"/&gt; <tr> <td>FLUG</td> <td>80,478</td> <td>23 46 55 12 12 23 91 10</td> </tr> <tr> <td>30\"/&gt; <tr> <td>11 1/4\"/&gt; <tr> <td>22 1/2\"/&gt; <tr> <td>45\"/&gt; <tr> <td>90\"/&gt; <tr> <td>FLUG</td> <td>203,575</td> <td>51 102 122 26 26 51 204 21</td> </tr> <tr> <td>48\"/&gt; <tr> <td>11 1/4\"/&gt; <tr> <td>22 1/2\"/&gt; <tr> <td>45\"/&gt; <tr> <td>90\"/&gt; <tr> <td>FLUG</td> <td>361,911</td> <td>91 181 217 46 46 91 362 37</td> </tr> </td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr></td></tr>	11 1/4\"/> <tr> <td>22 1/2\"/&gt; <tr> <td>45\"/&gt; <tr> <td>90\"/&gt; <tr> <td>FLUG</td> <td>80,478</td> <td>23 46 55 12 12 23 91 10</td> </tr> <tr> <td>30\"/&gt; <tr> <td>11 1/4\"/&gt; <tr> <td>22 1/2\"/&gt; <tr> <td>45\"/&gt; <tr> <td>90\"/&gt; <tr> <td>FLUG</td> <td>203,575</td> <td>51 102 122 26 26 51 204 21</td> </tr> <tr> <td>48\"/&gt; 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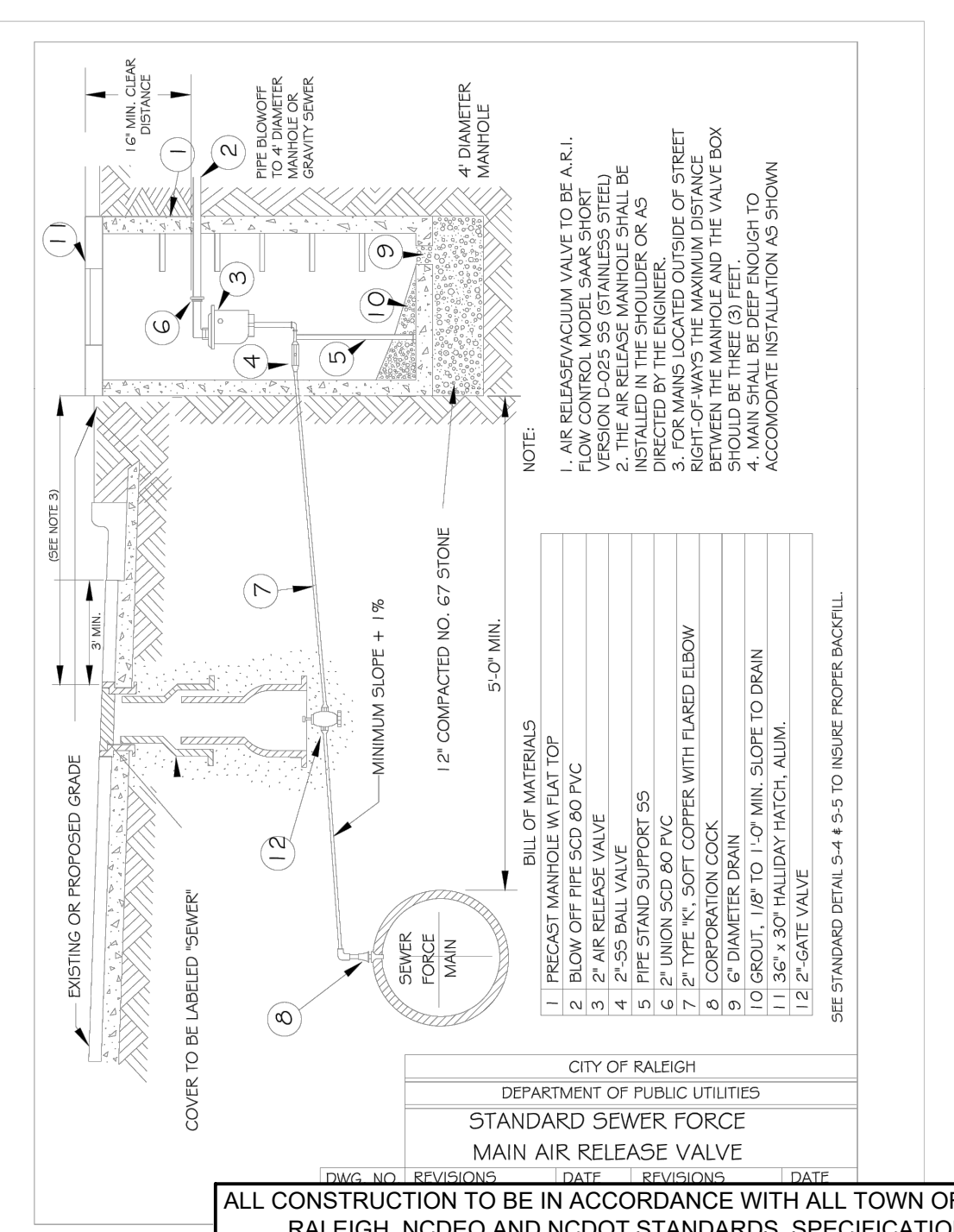
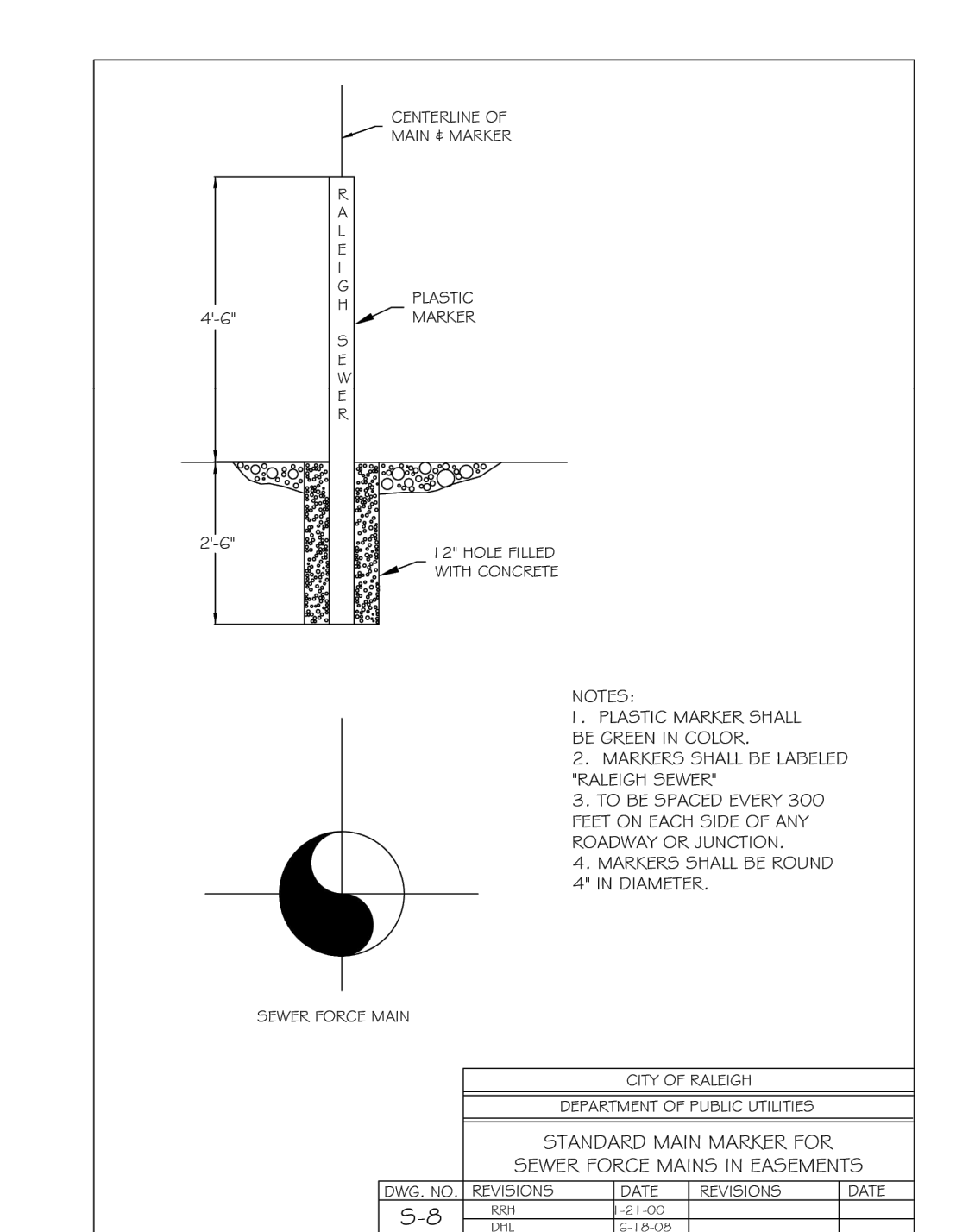
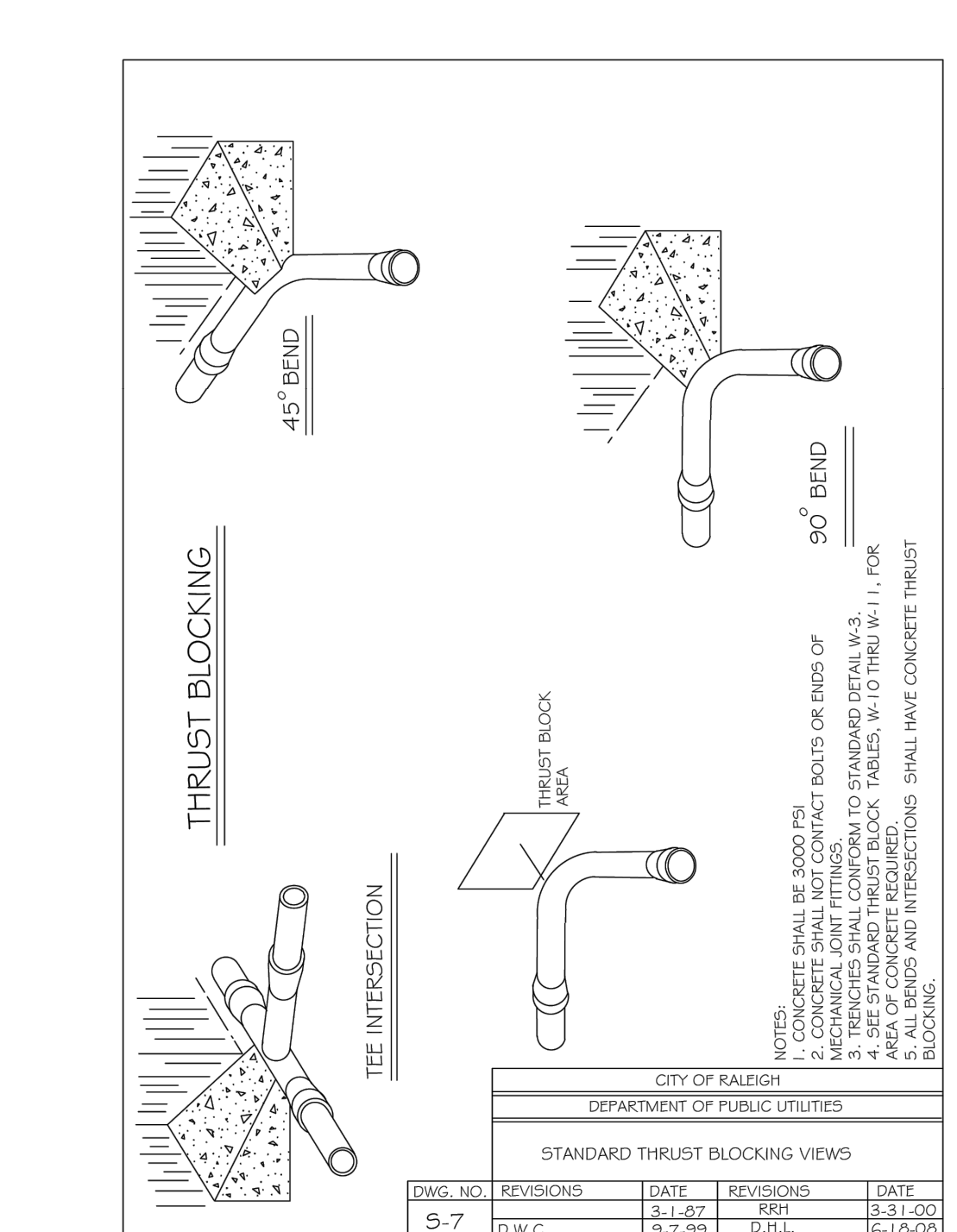
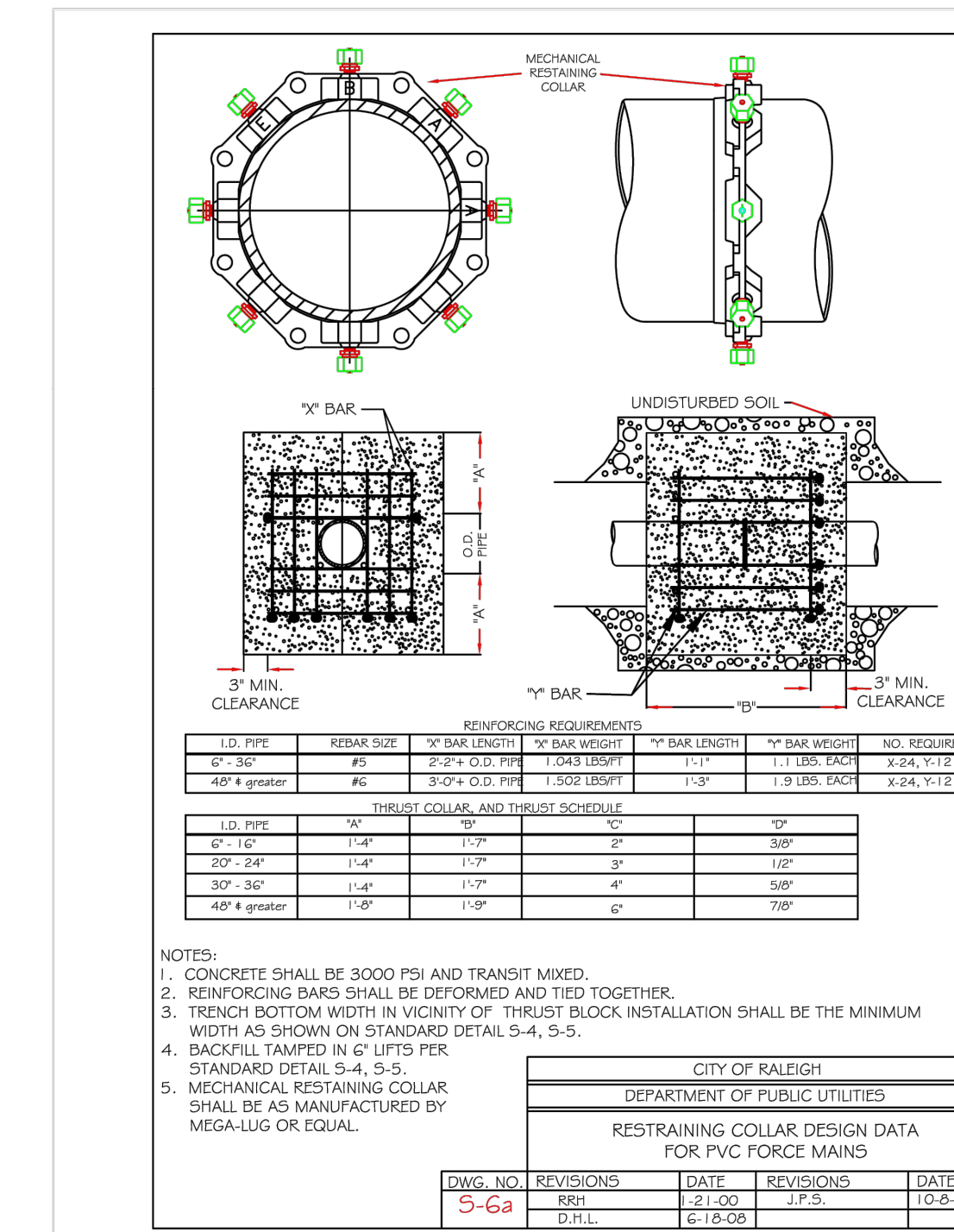
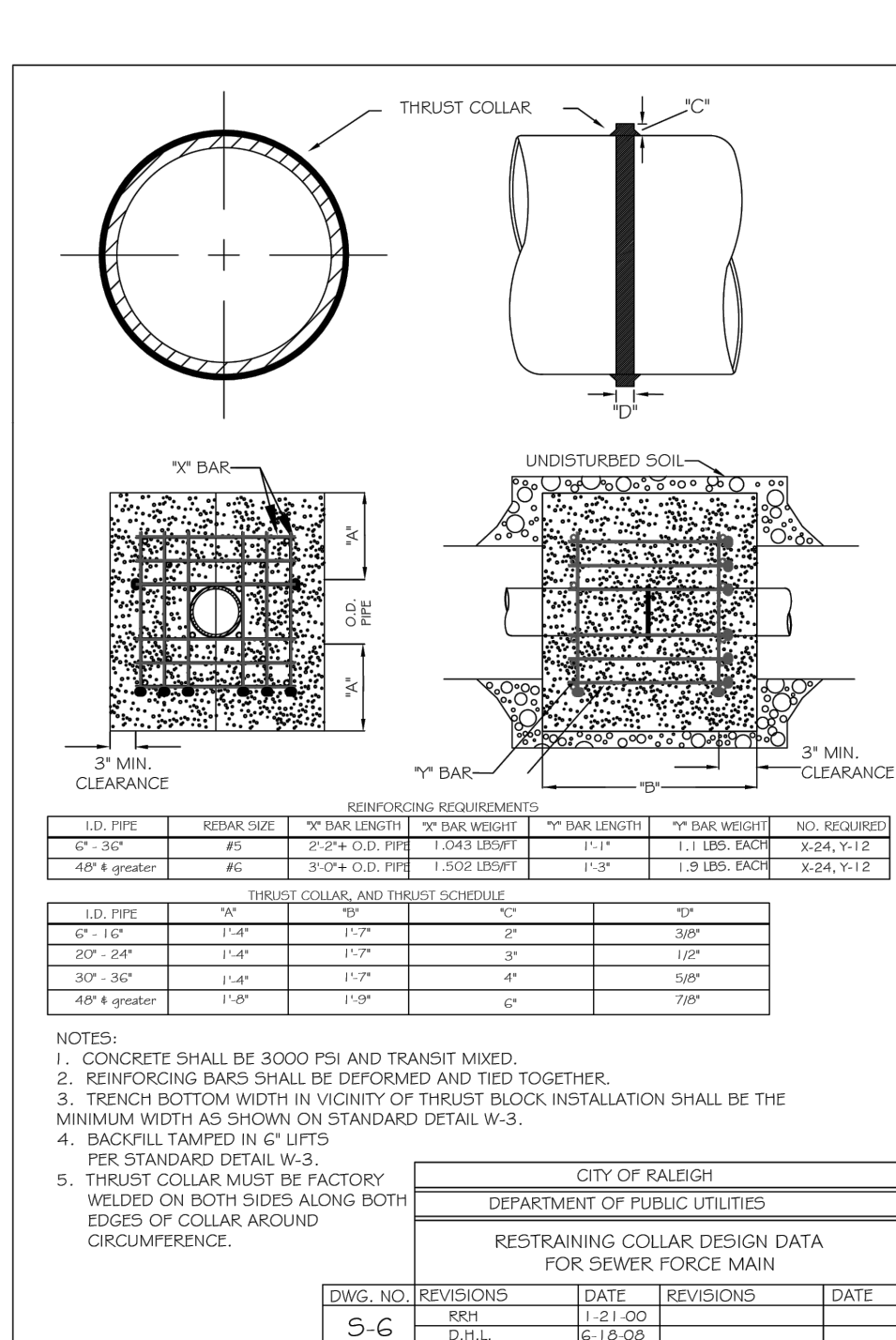
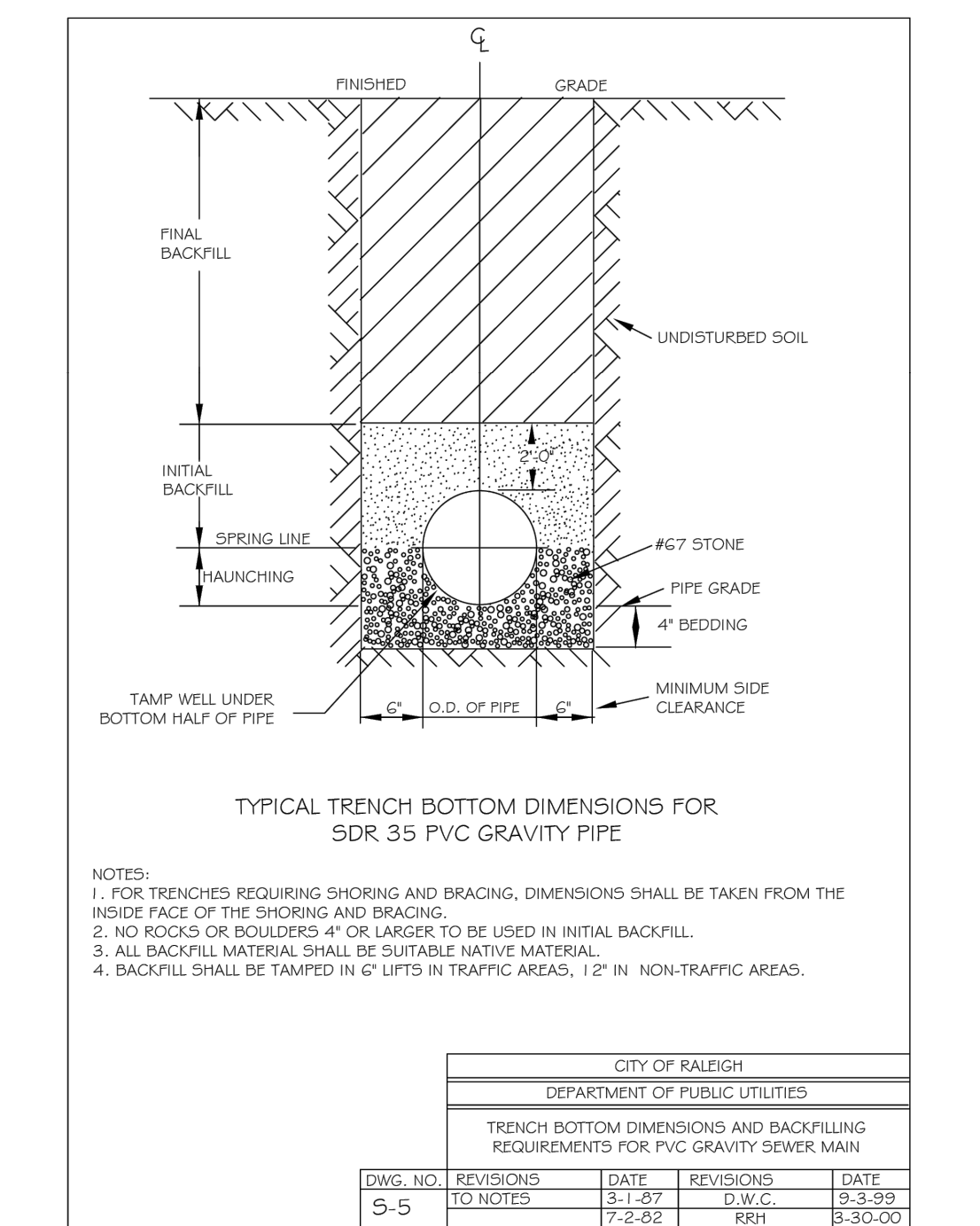
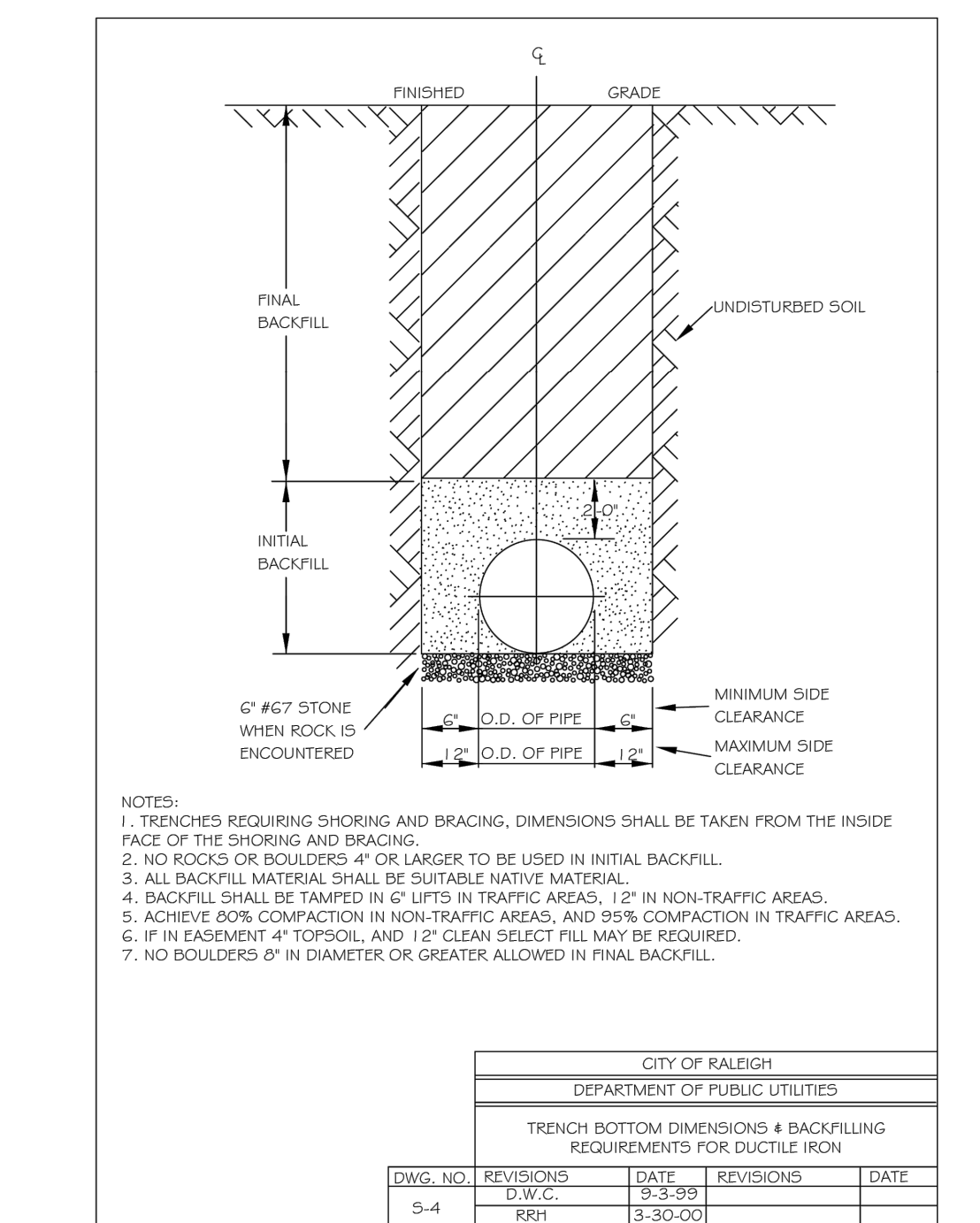
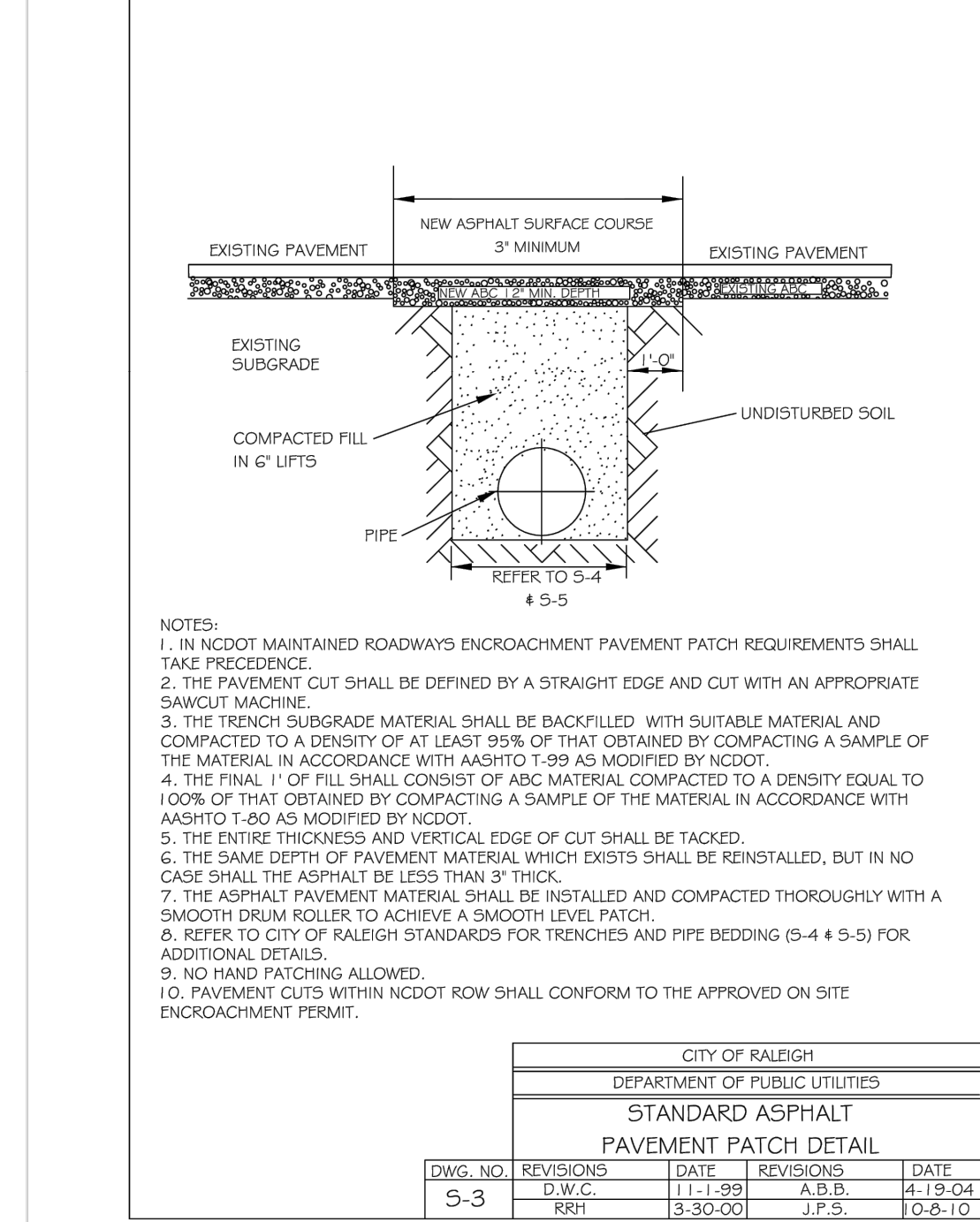
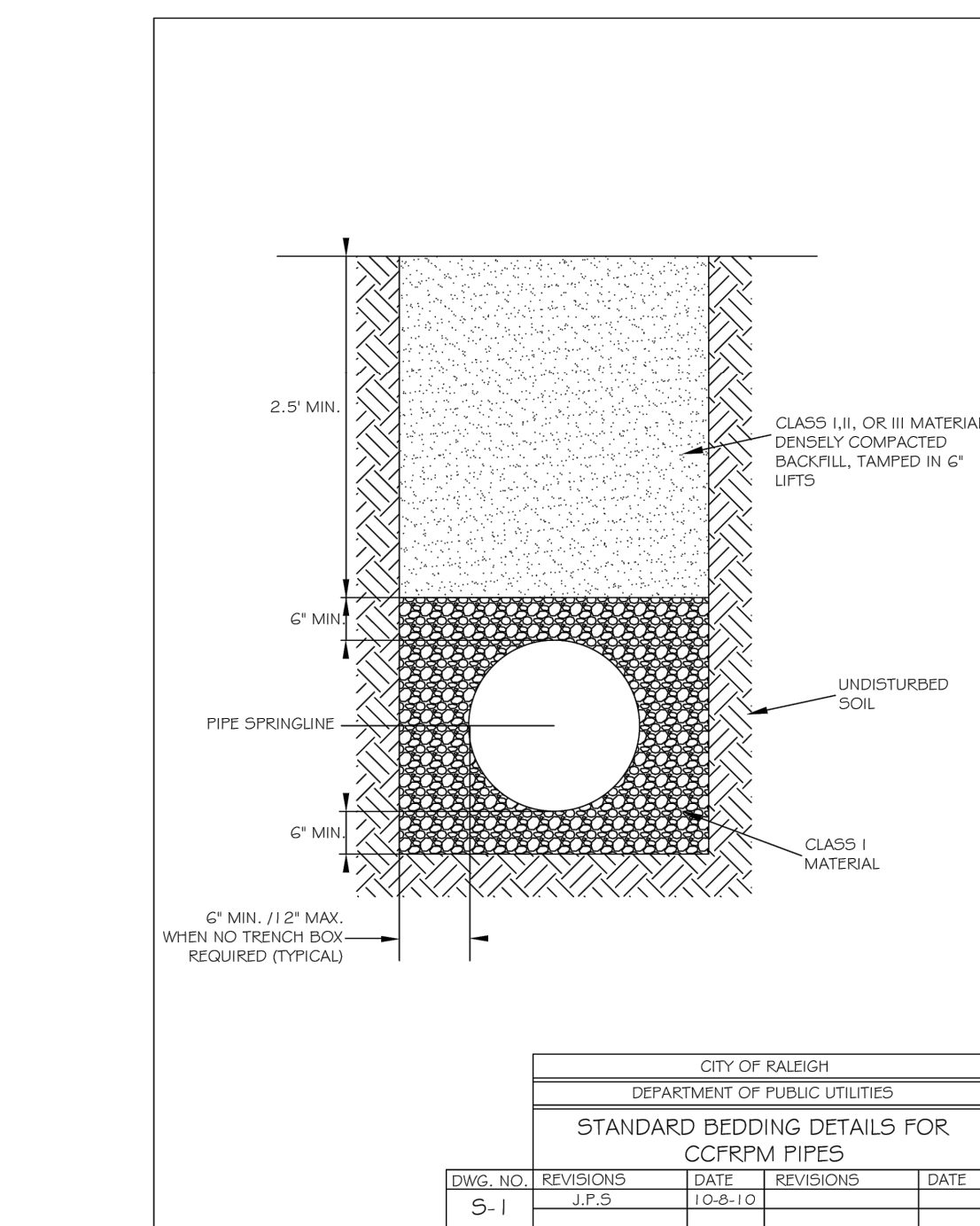
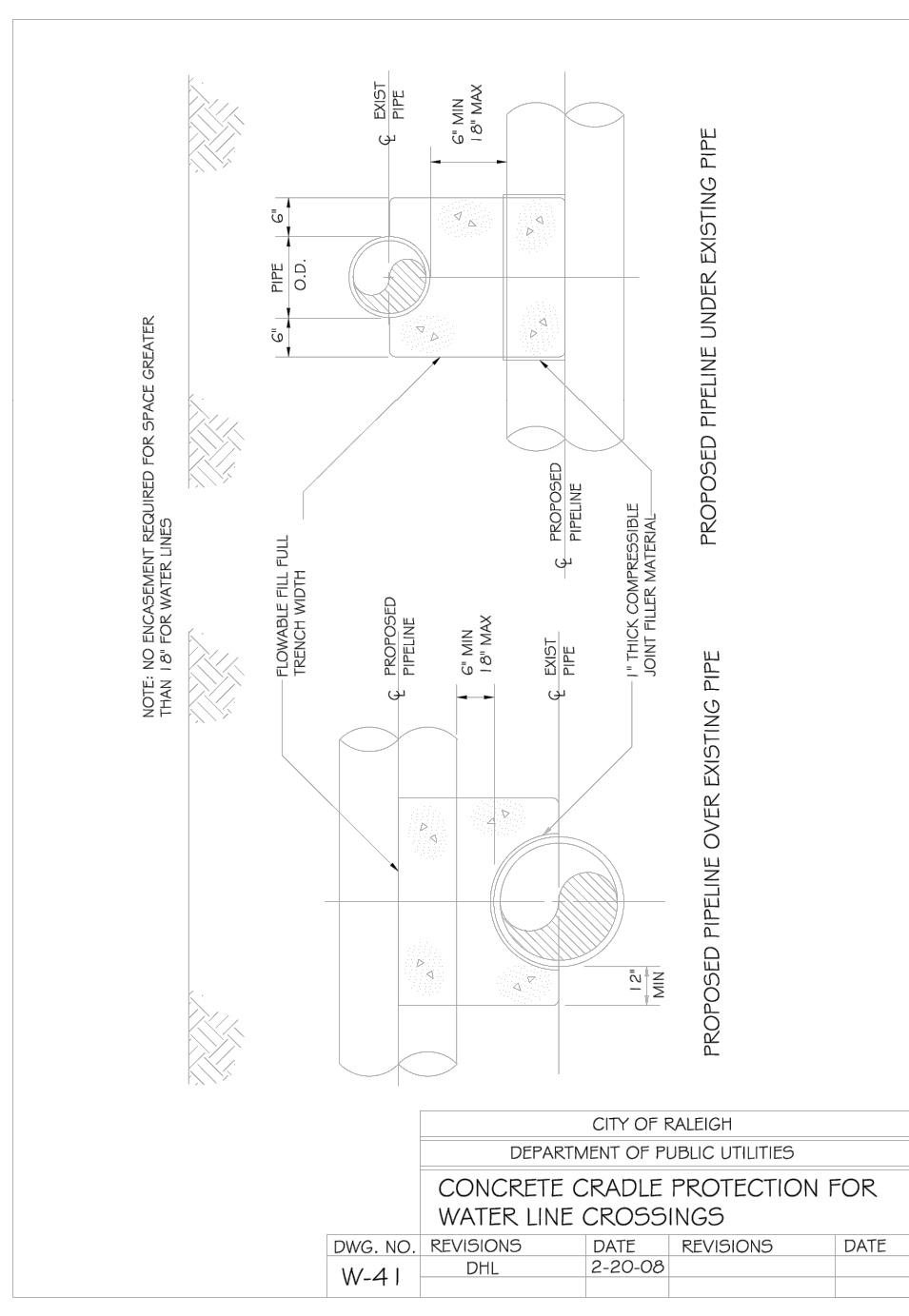
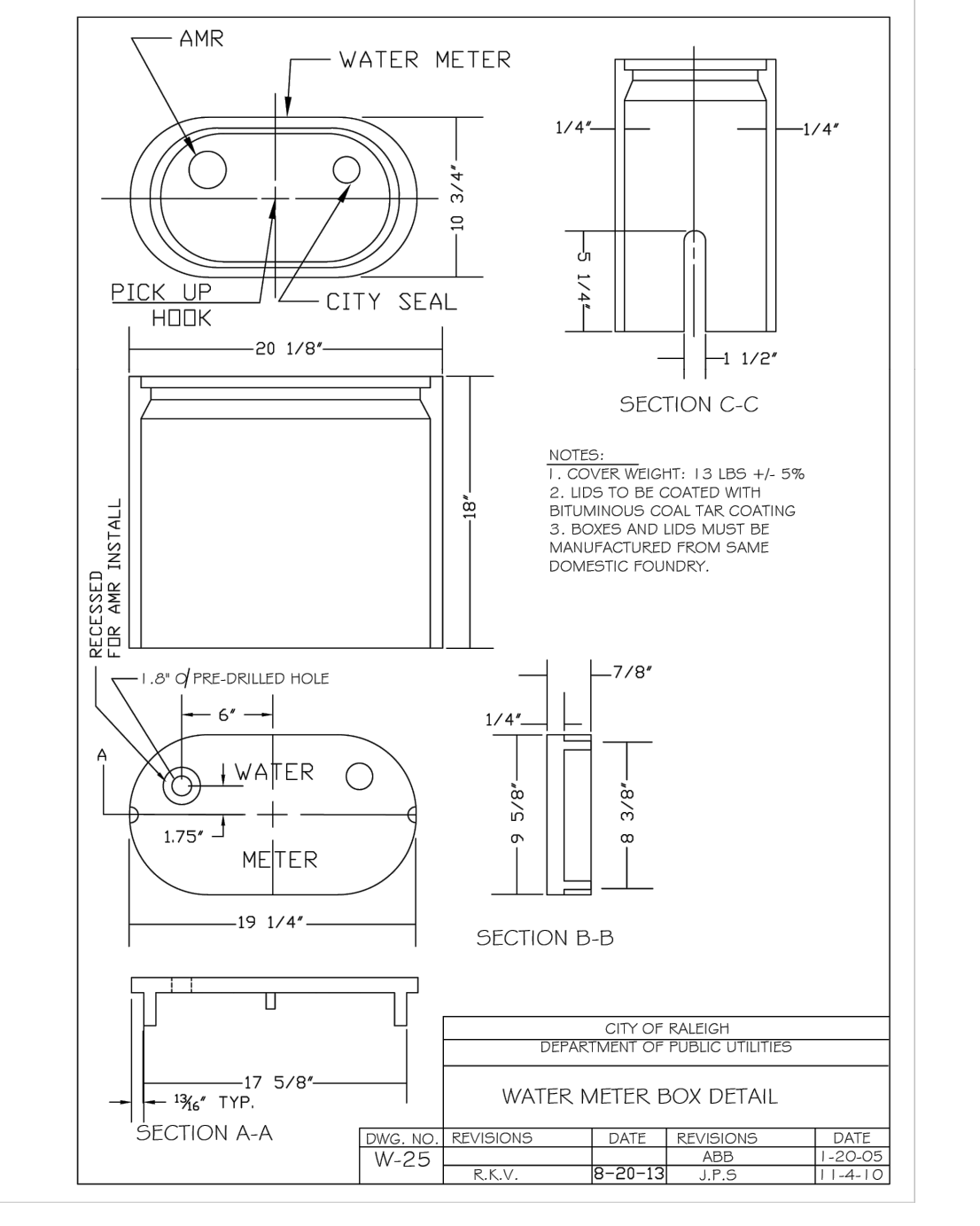
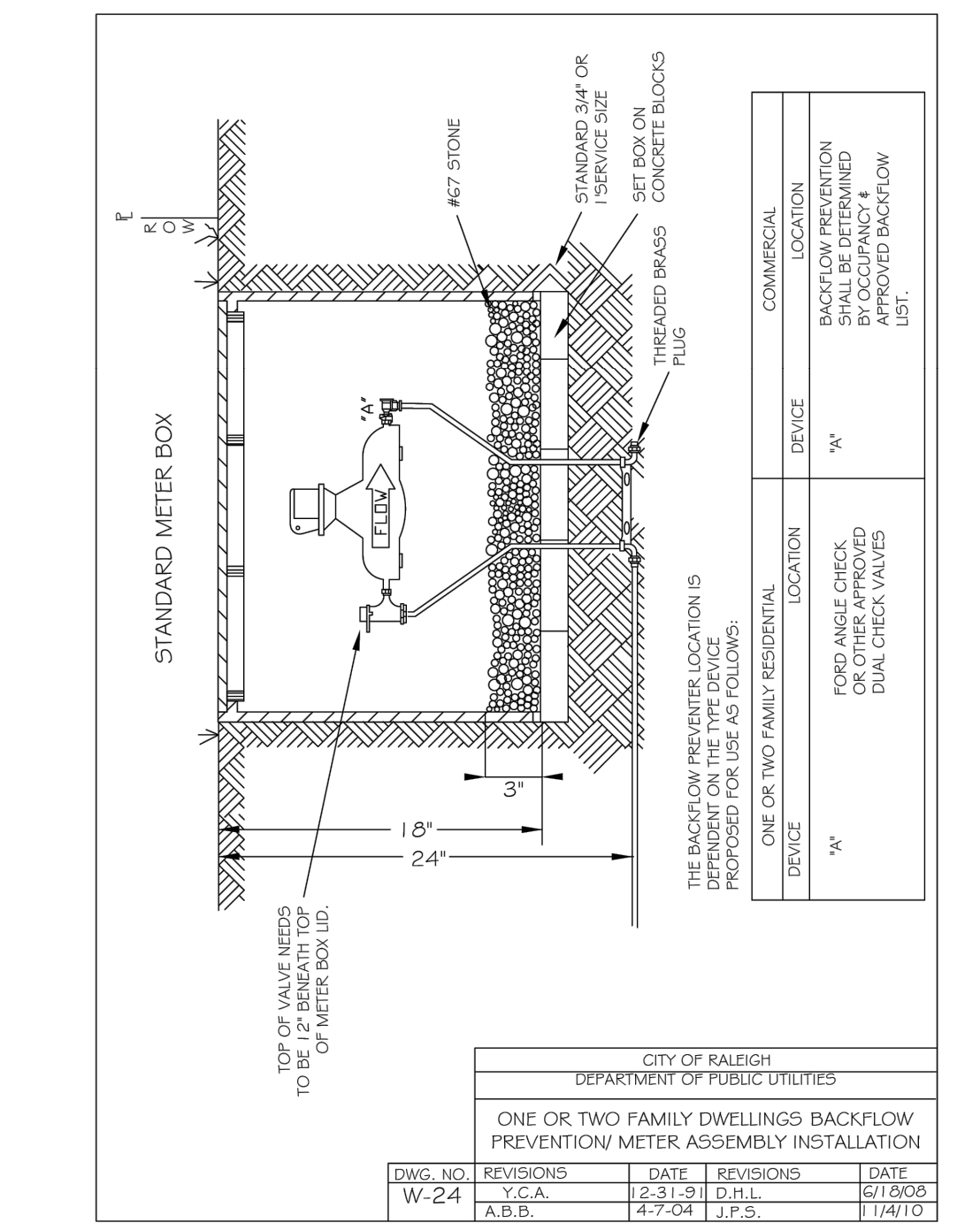
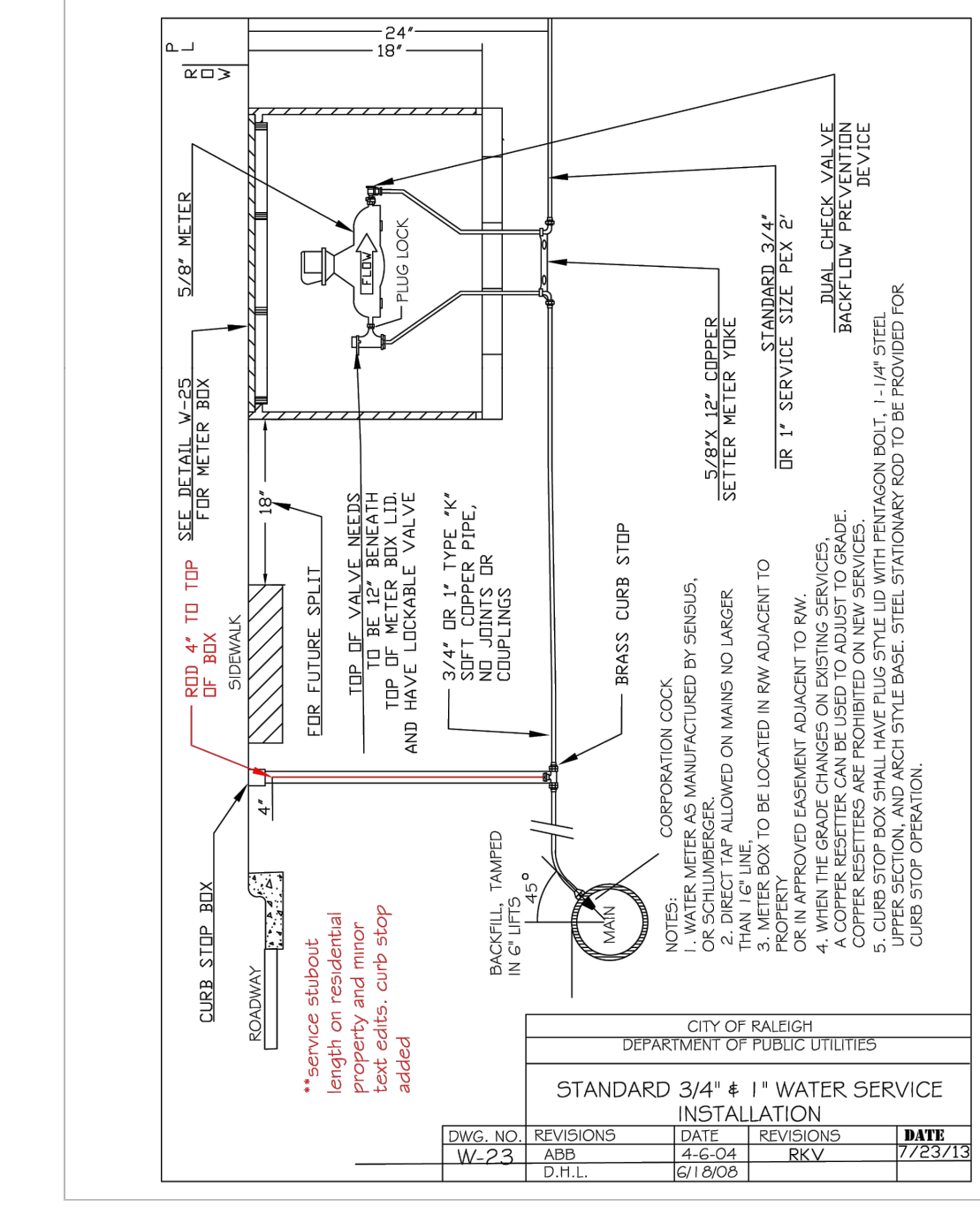
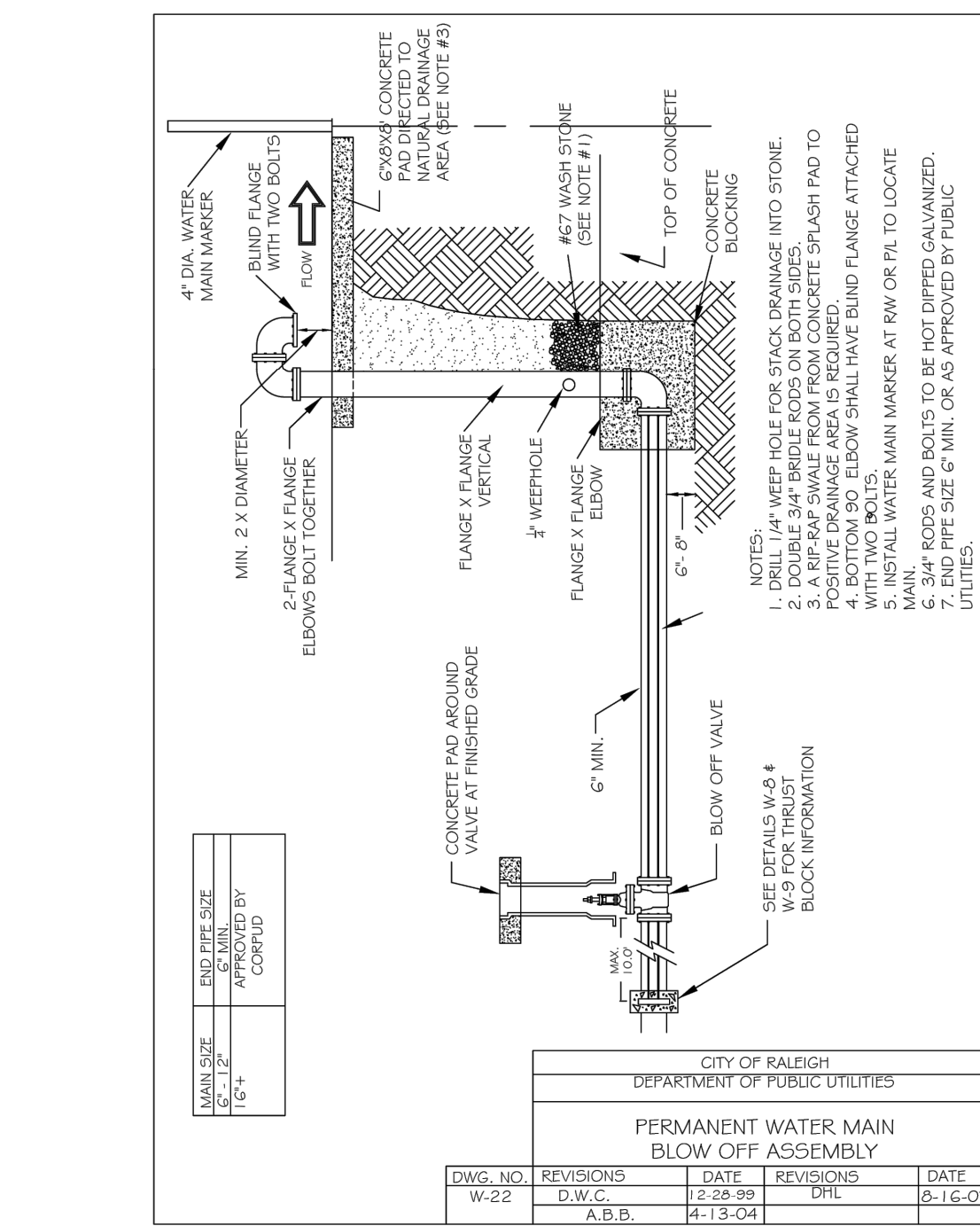
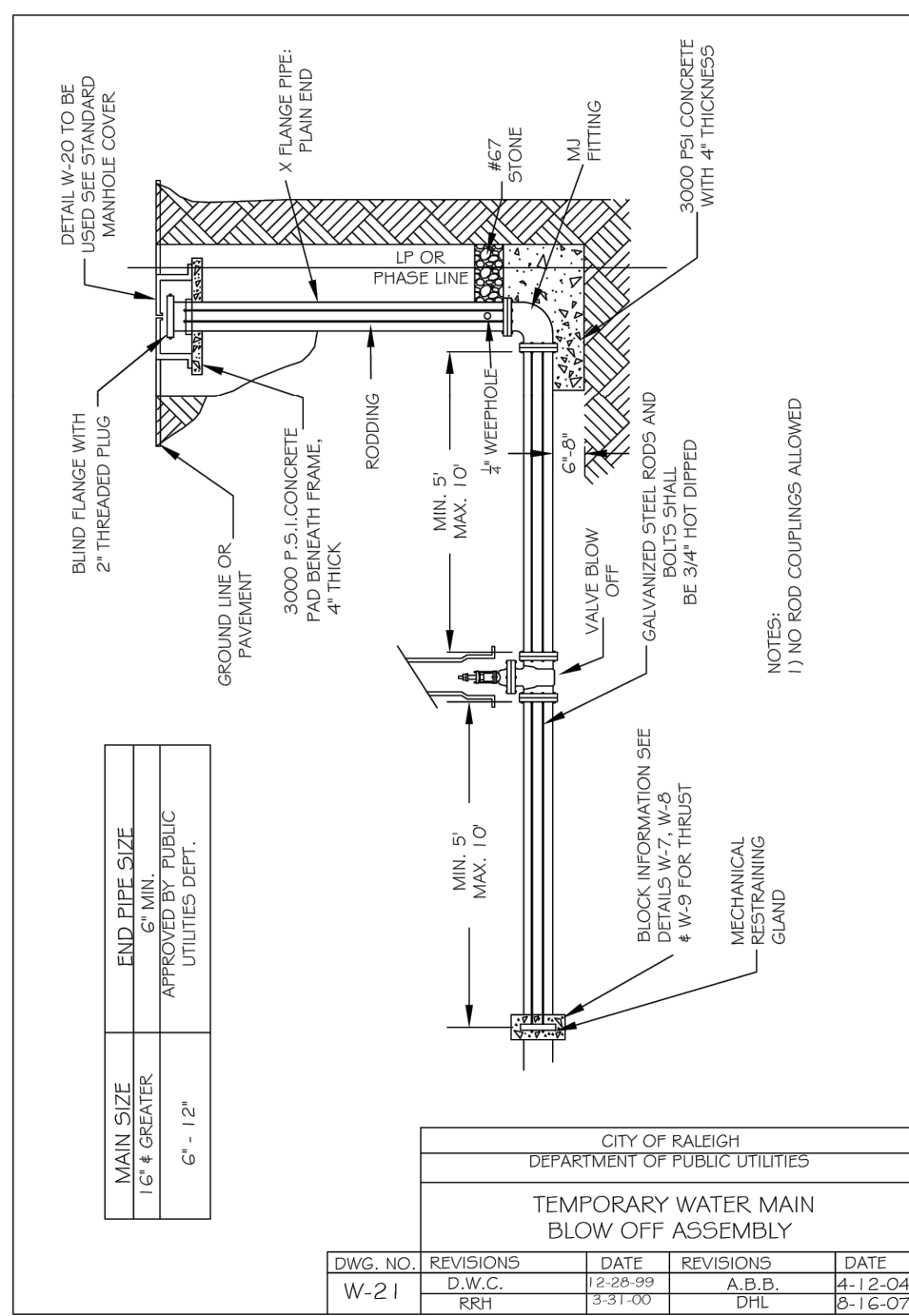
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**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652  
**ROLESVILLE CROSSING - CD 21-08**  
 WAKE COUNTY - NORTH CAROLINA  
**UTILITY DETAILS**

JOB NO. 43398  
 SHEET NO. C7.8

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# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## ROLESVILLE CROSSING - CD 21-08

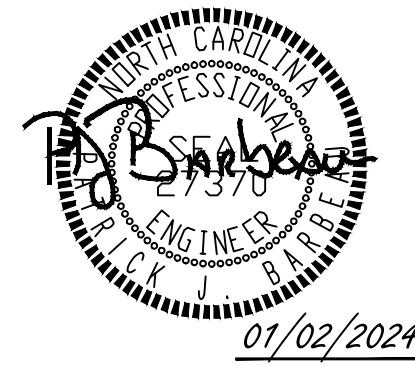
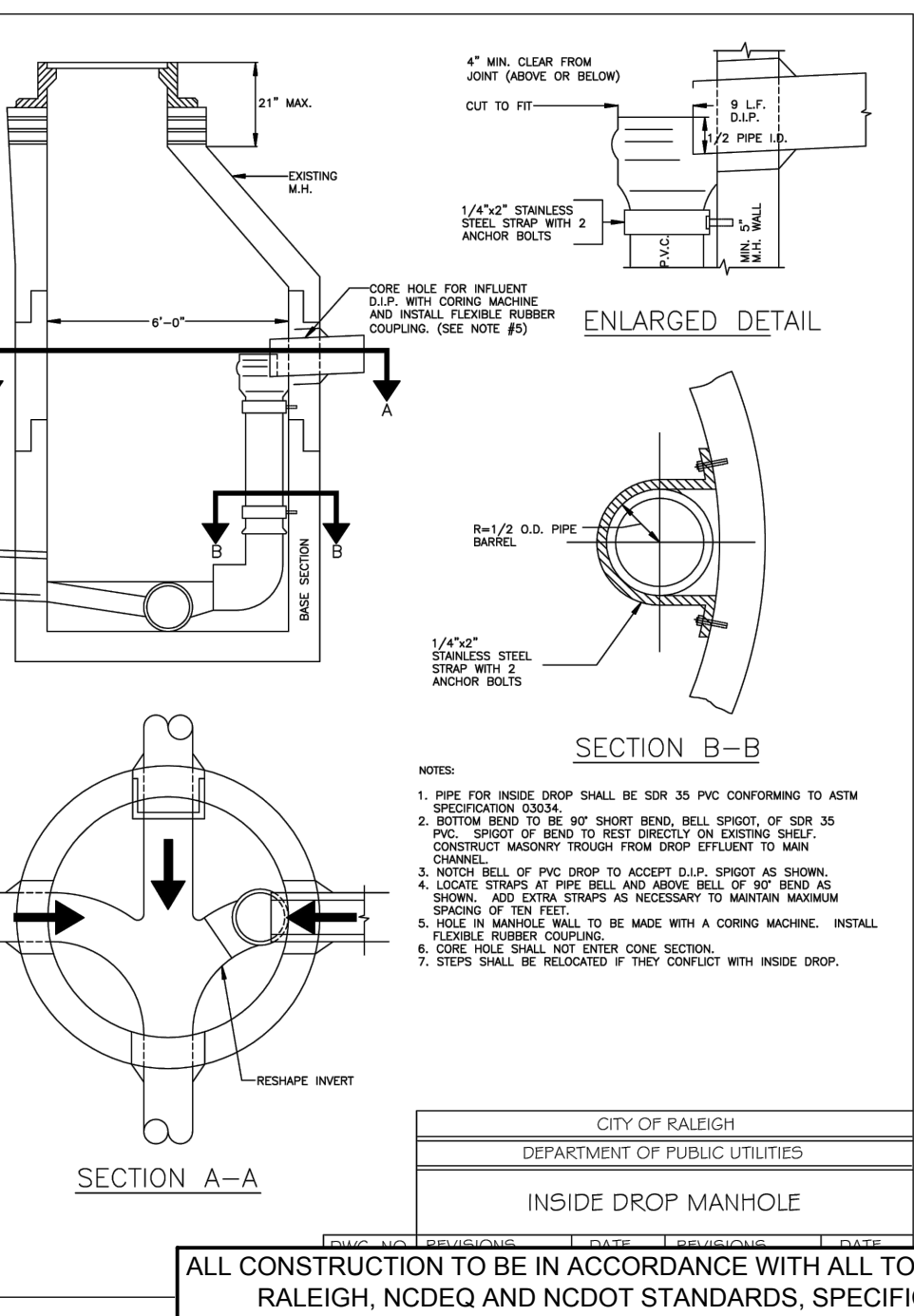
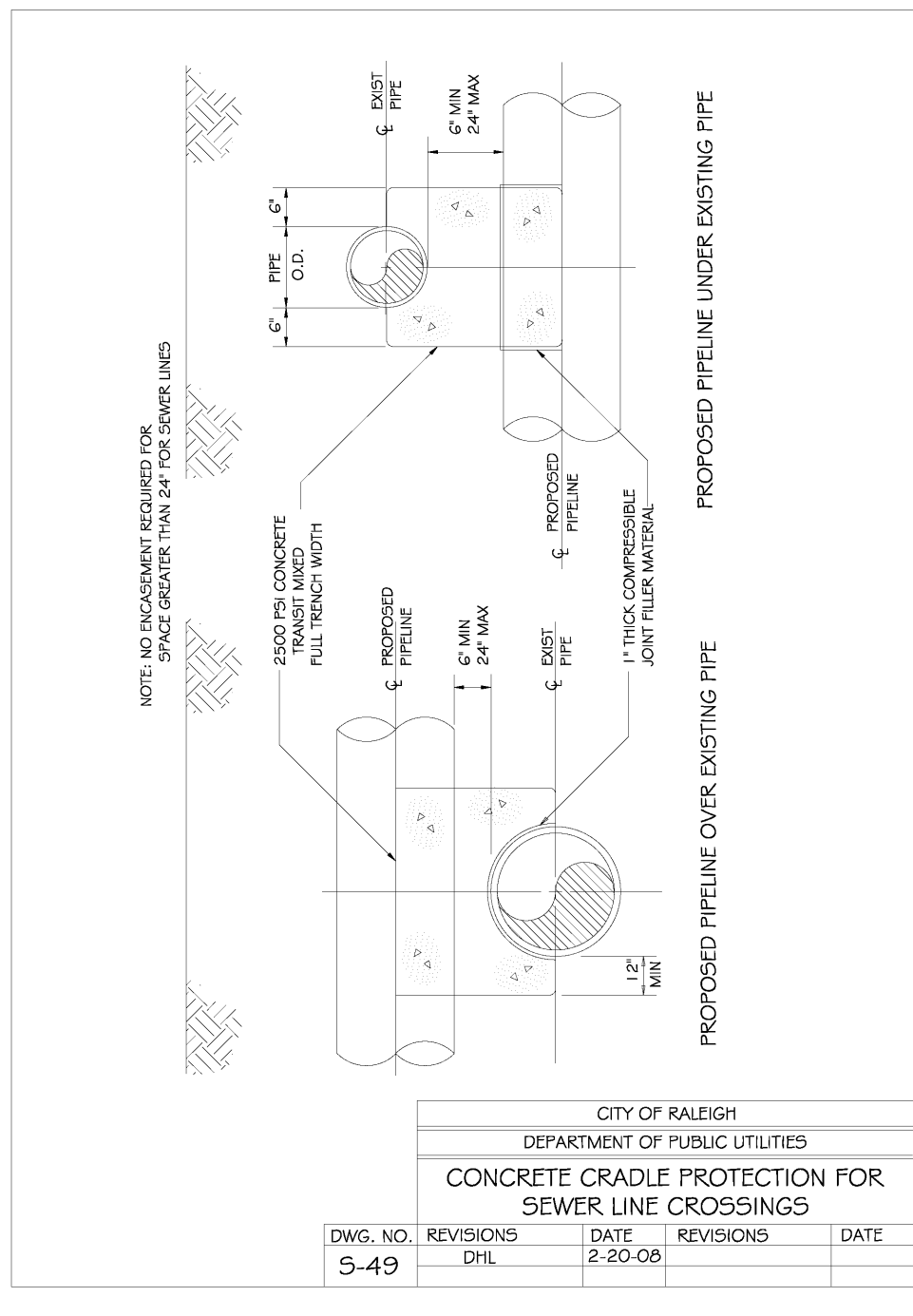
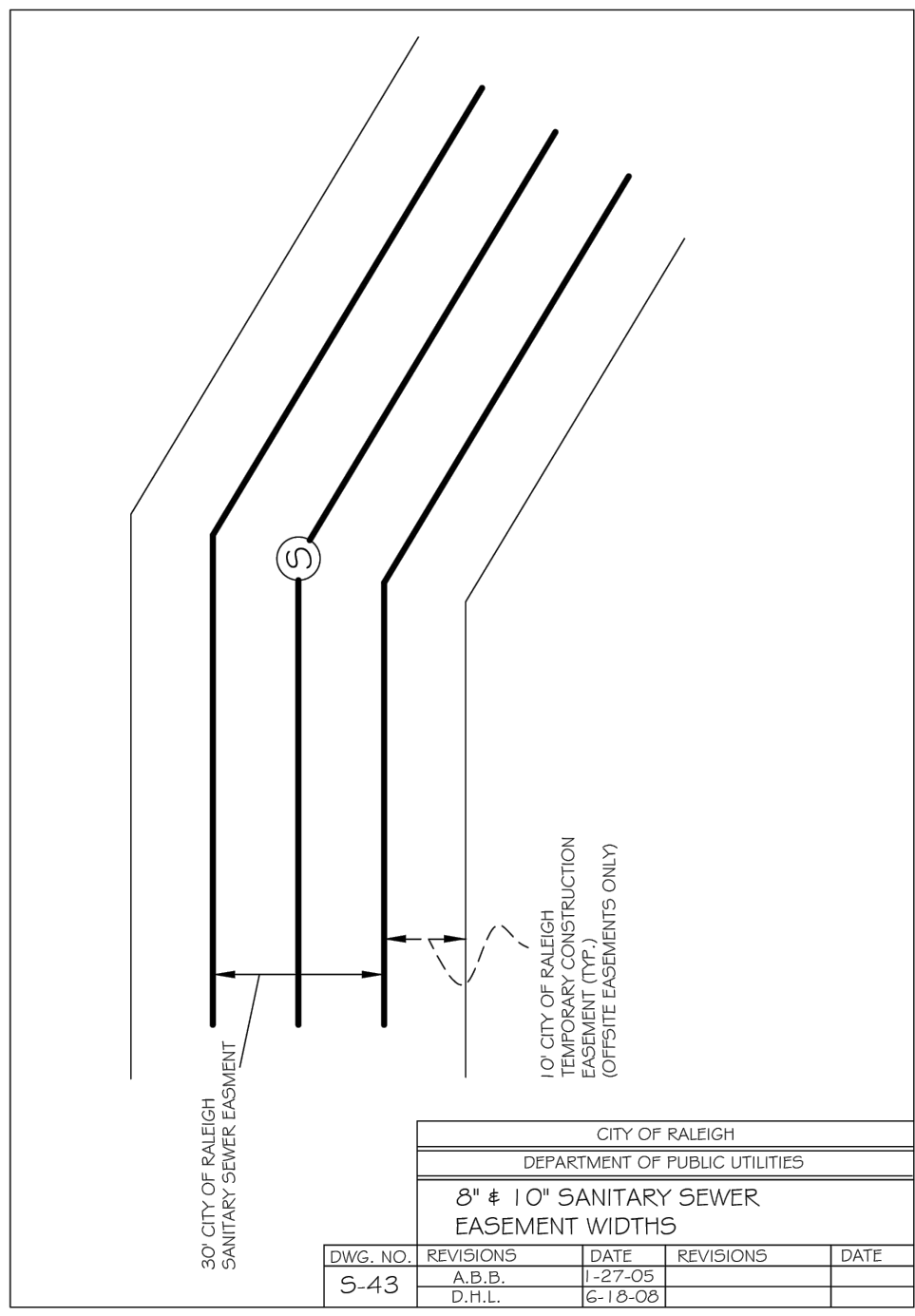
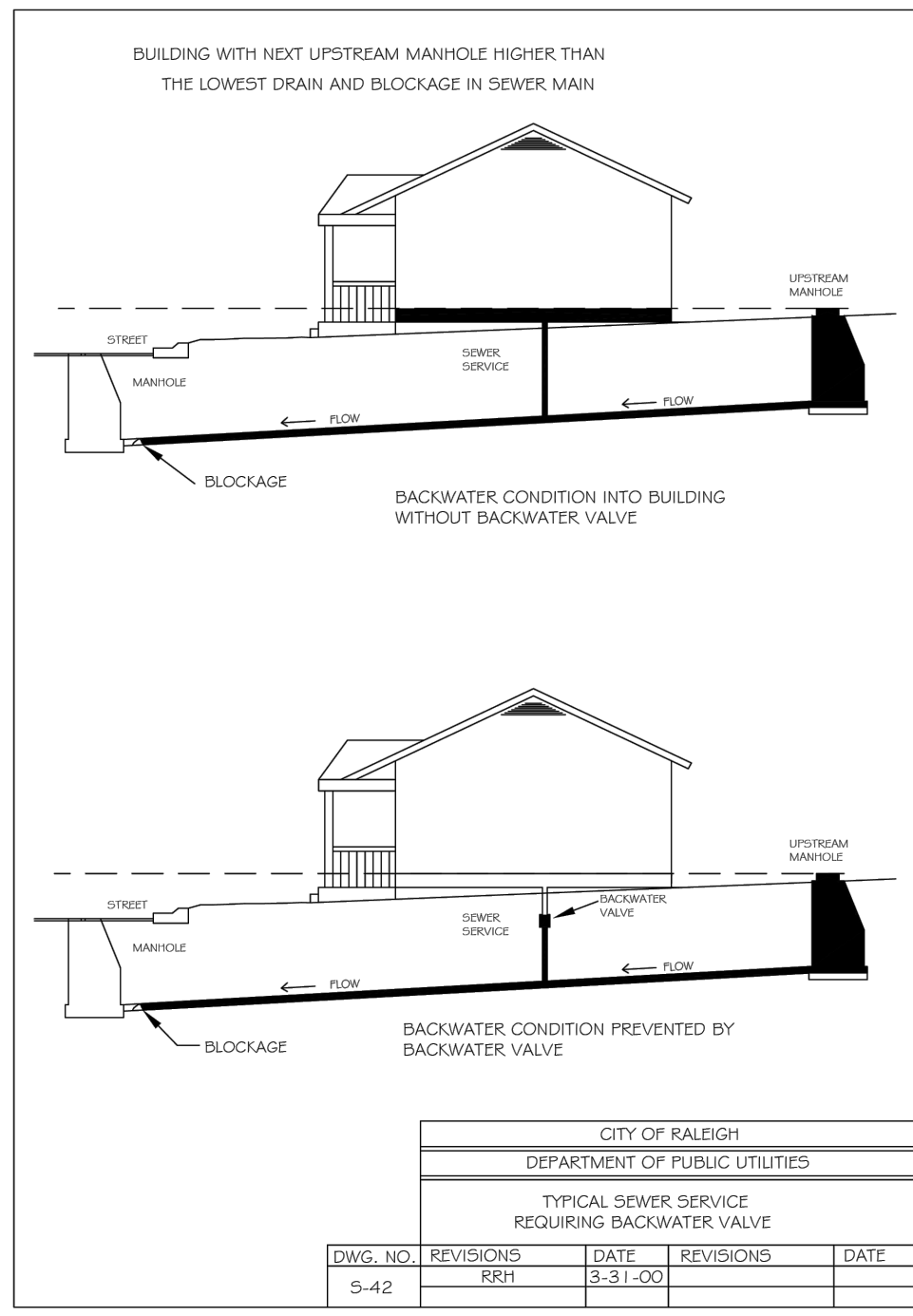
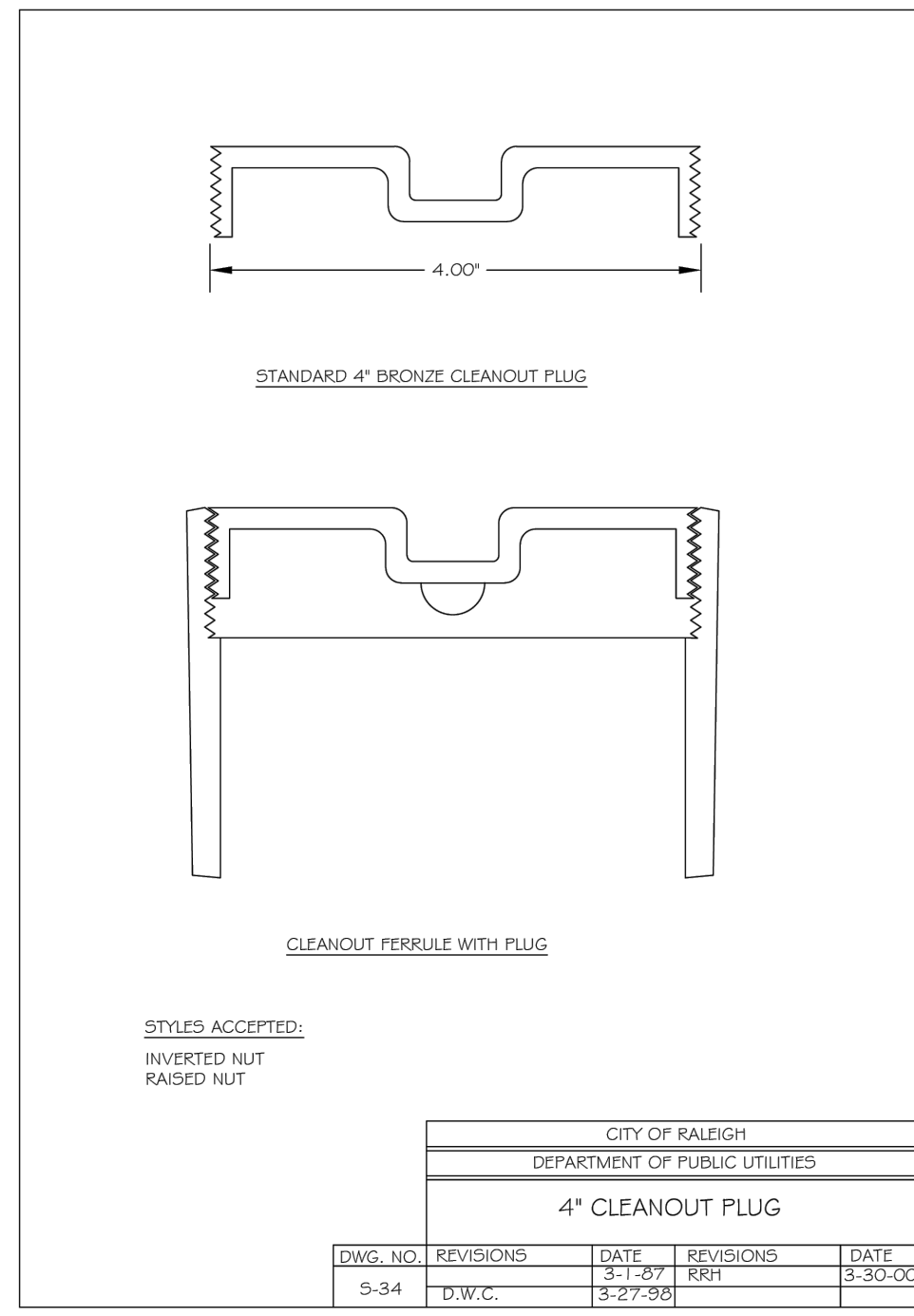
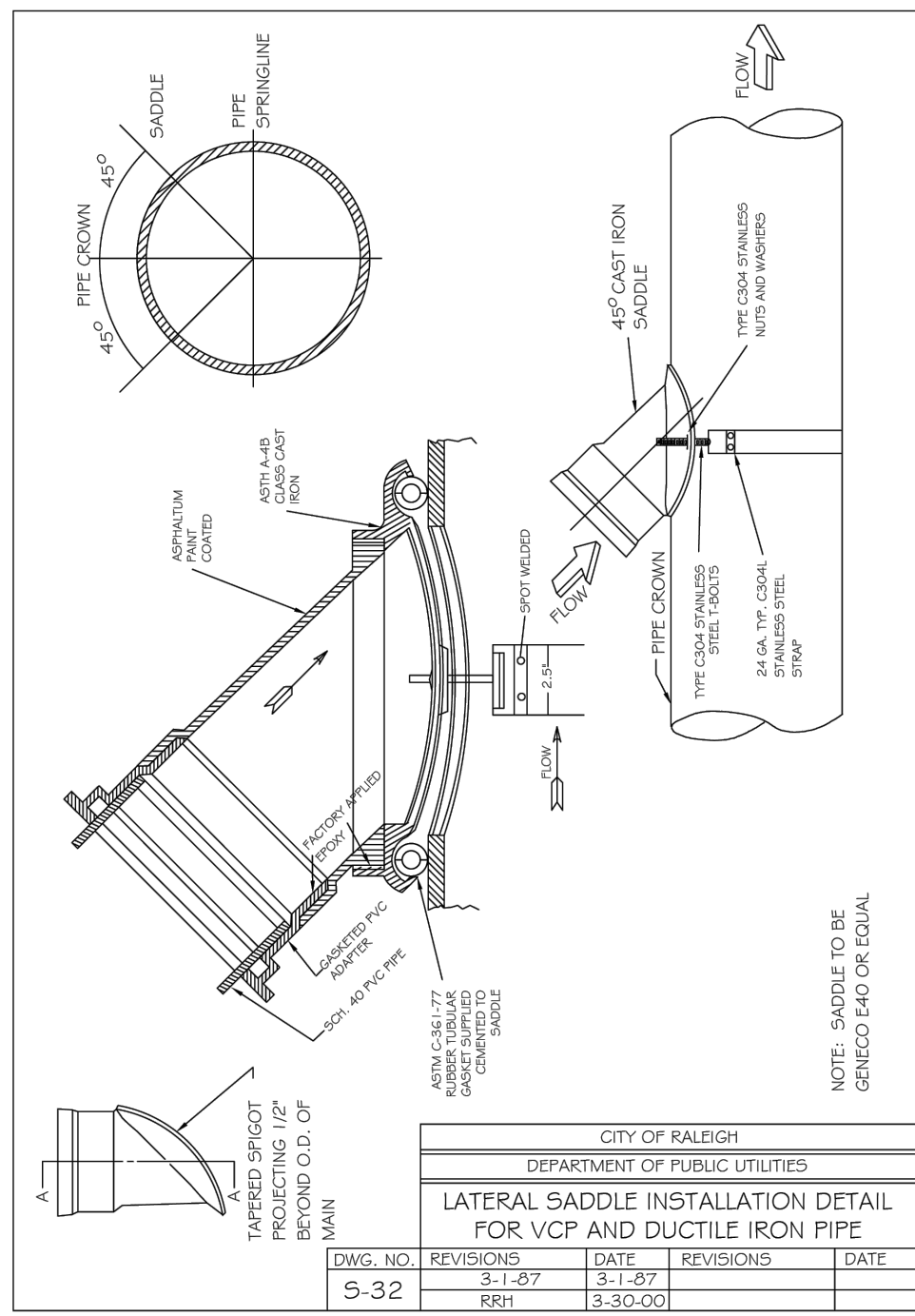
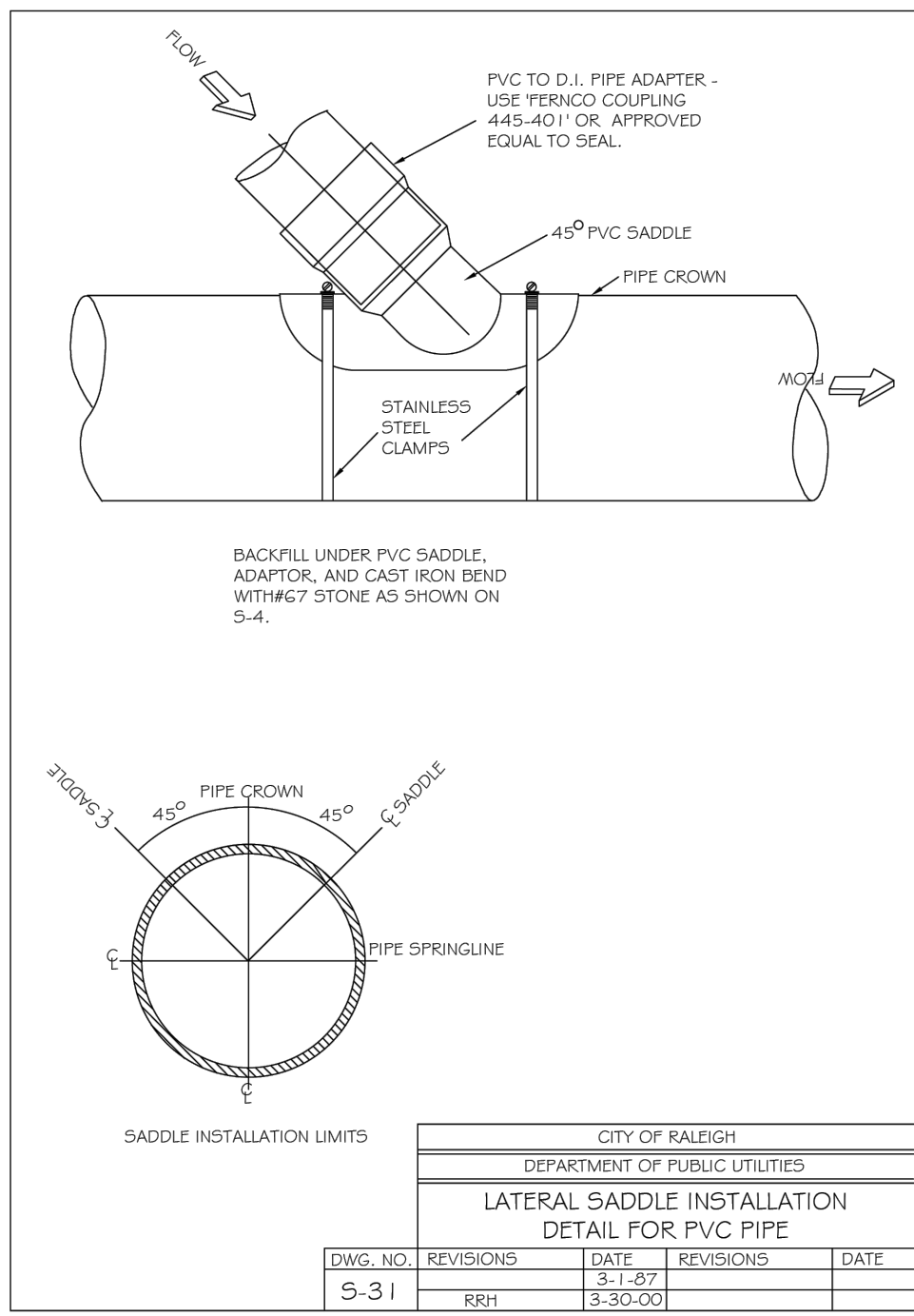
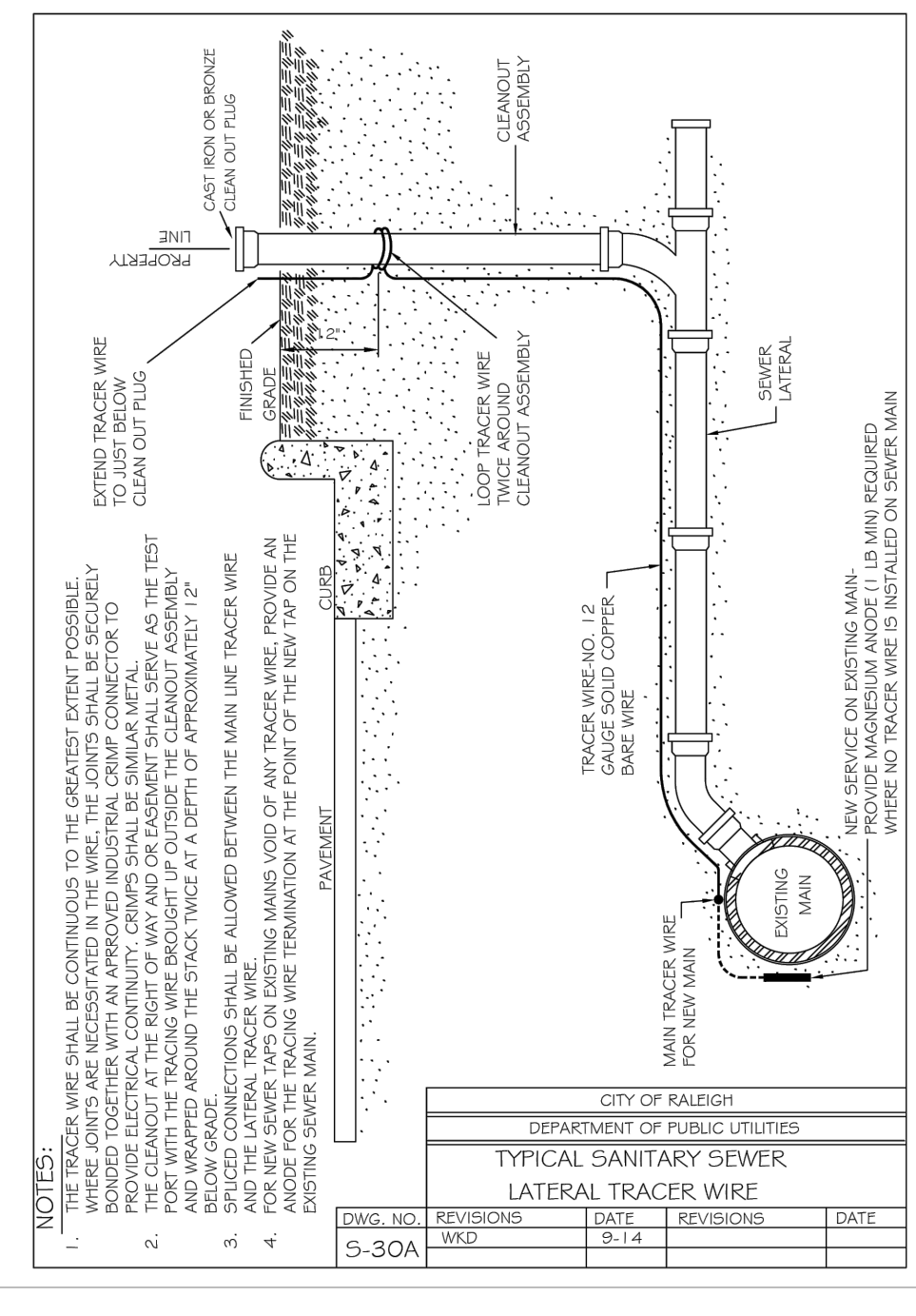
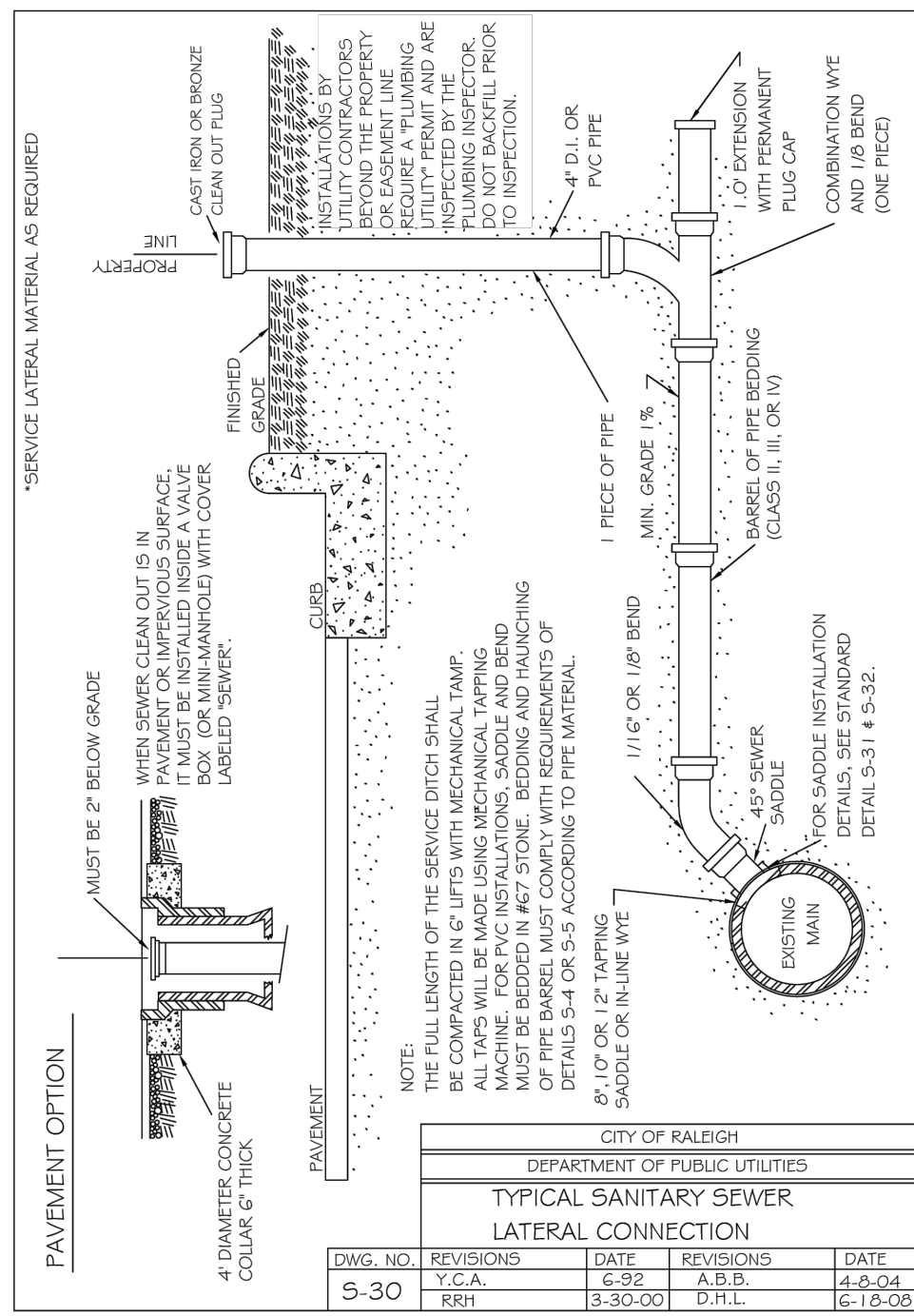
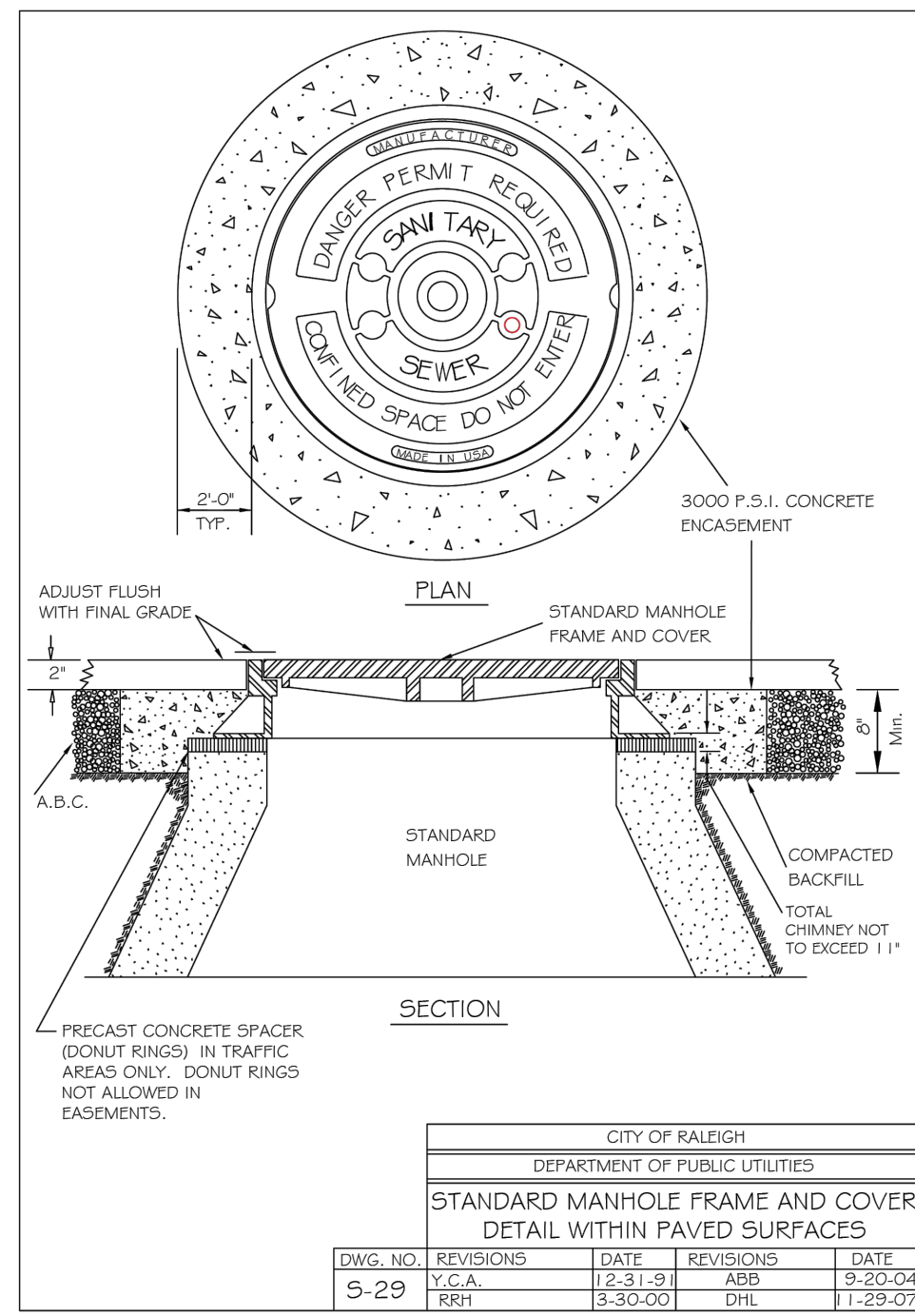
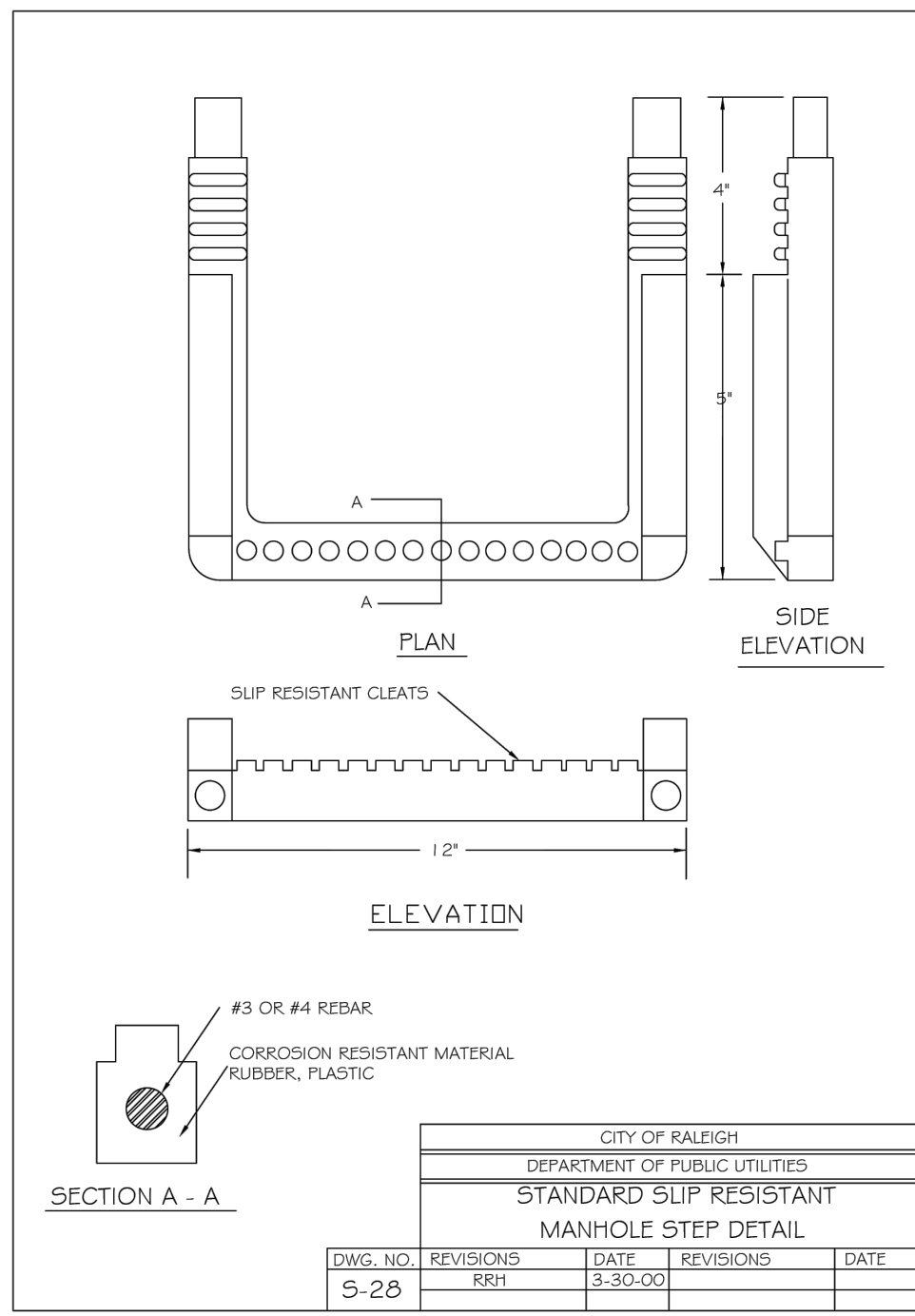
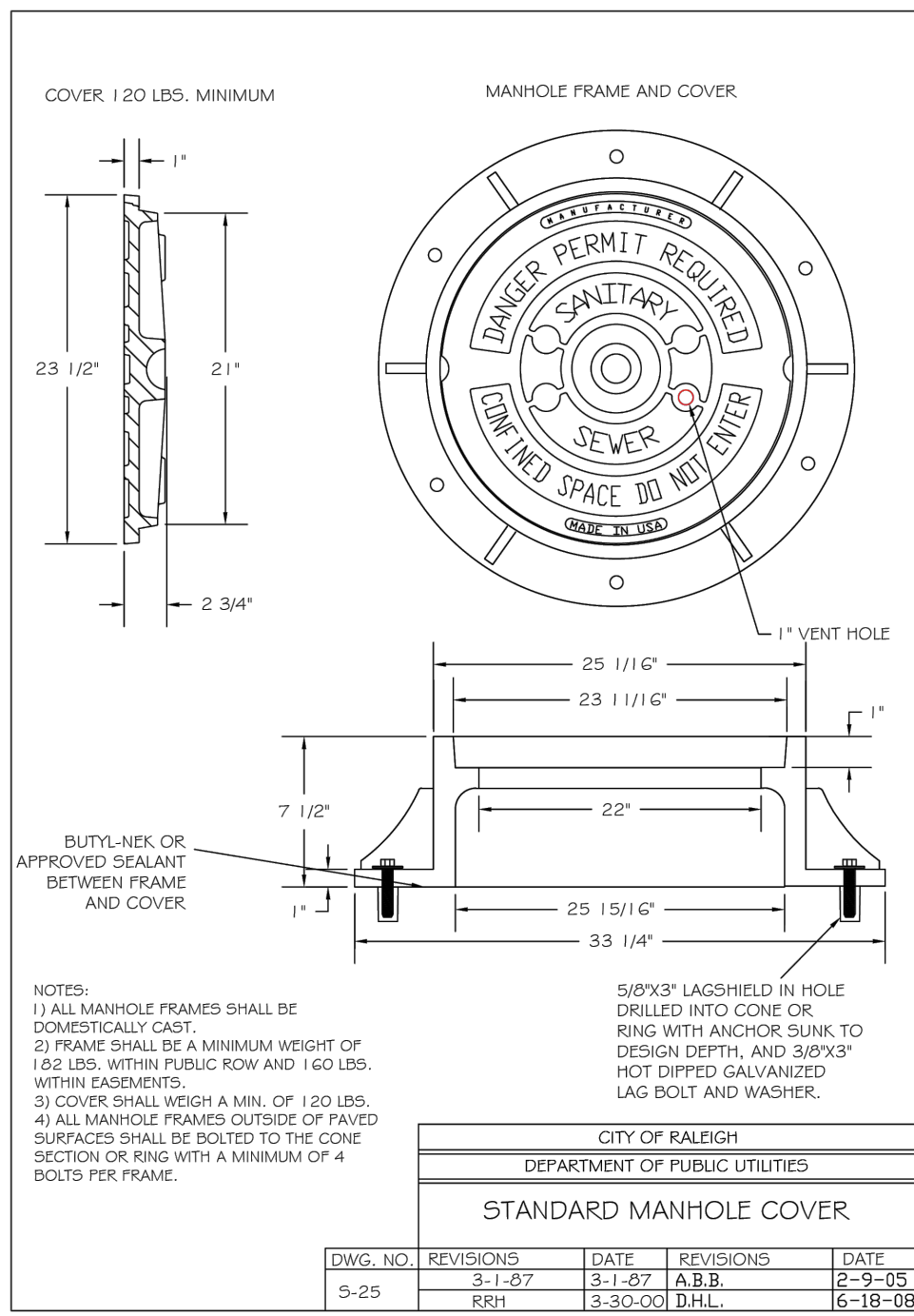
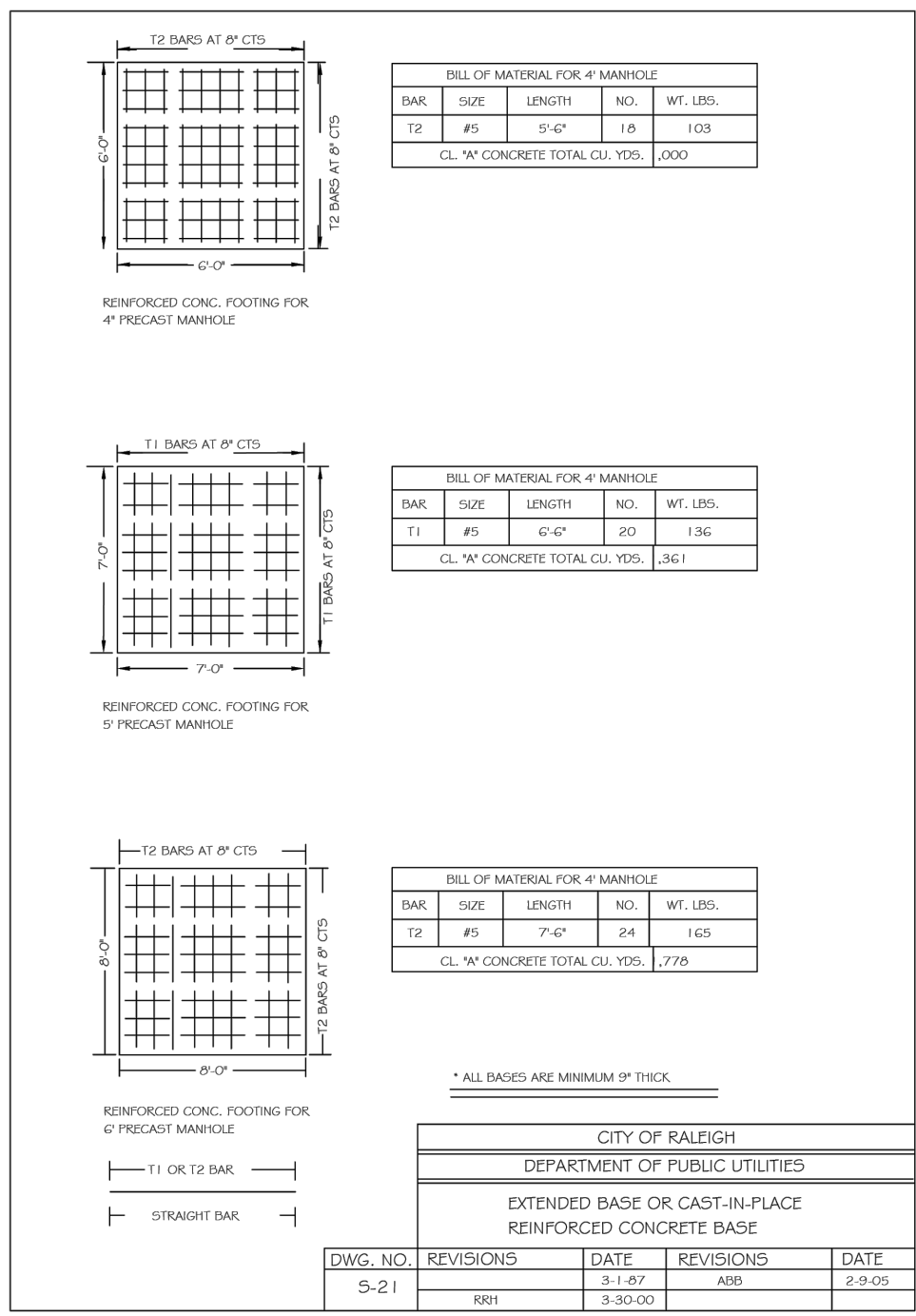
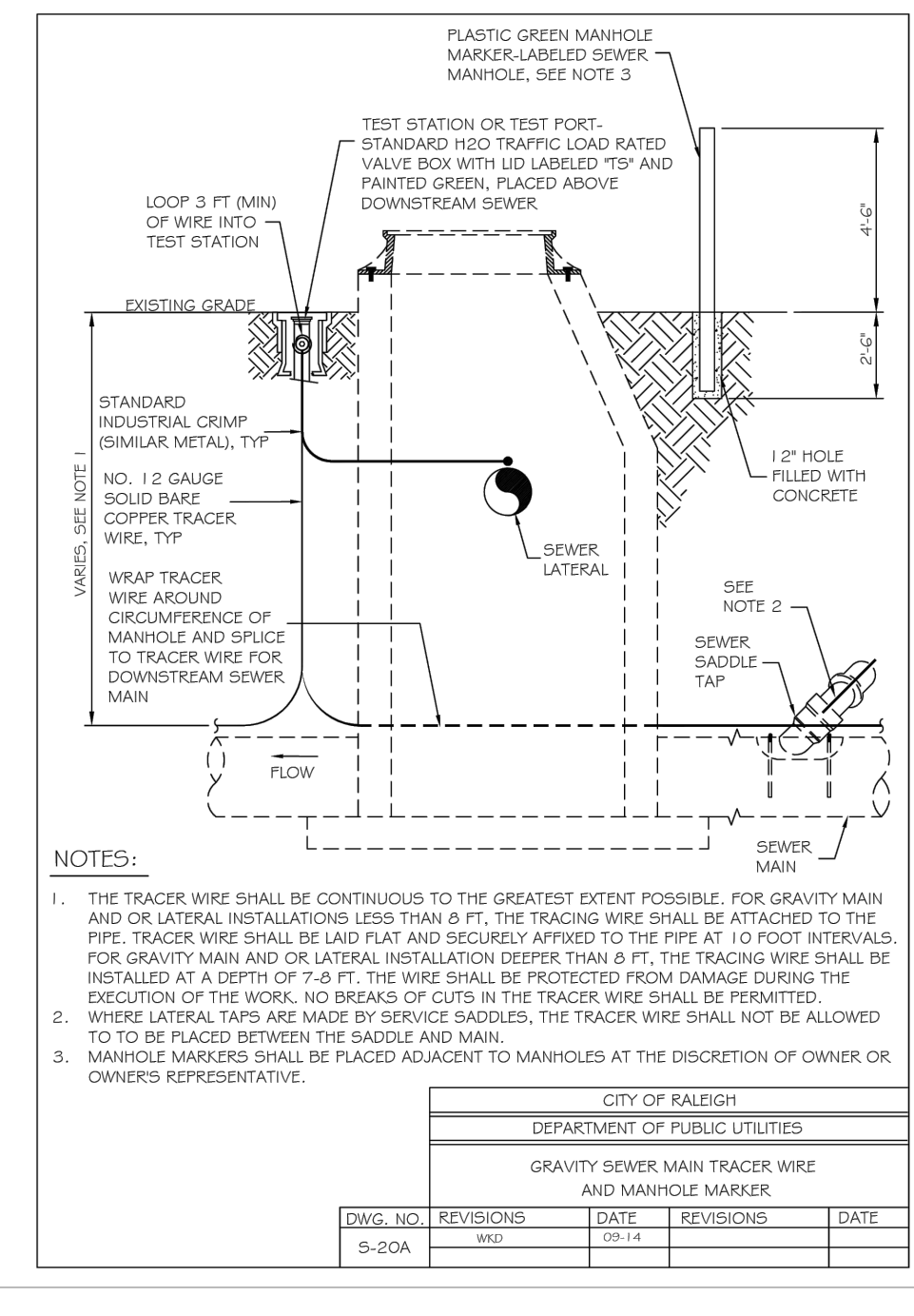
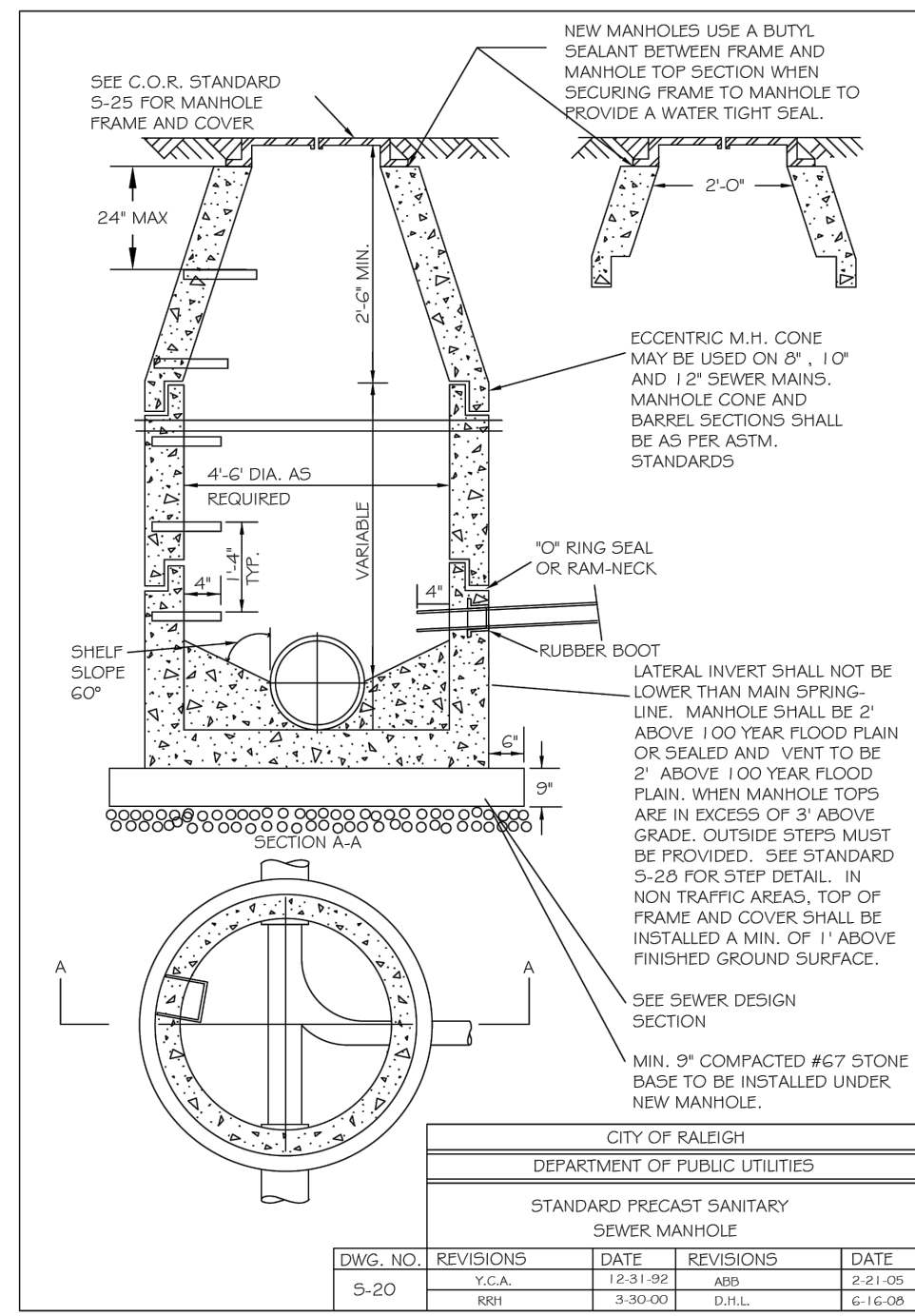
WAKE COUNTY - NORTH CAROLINA

### UTILITY DETAILS

JOB NO. 43398  
 SHEET NO. C7.9

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DATE	REVISION DESCRIPTION
06/24/2022	PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021  
DRAWN BY  
**R. WINGATE**  
DESIGNED BY  
**P. BARBEAU**  
CHECKED BY  
**P. BARBEAU**  
SCALE  
**AS SHOWN**

# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## ROLESVILLE CROSSING - CD 21-08

WAKE COUNTY - NORTH CAROLINA

### UTILITY DETAILS

JOB NO.  
**43398**

SHEET NO.  
**C7.10**

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



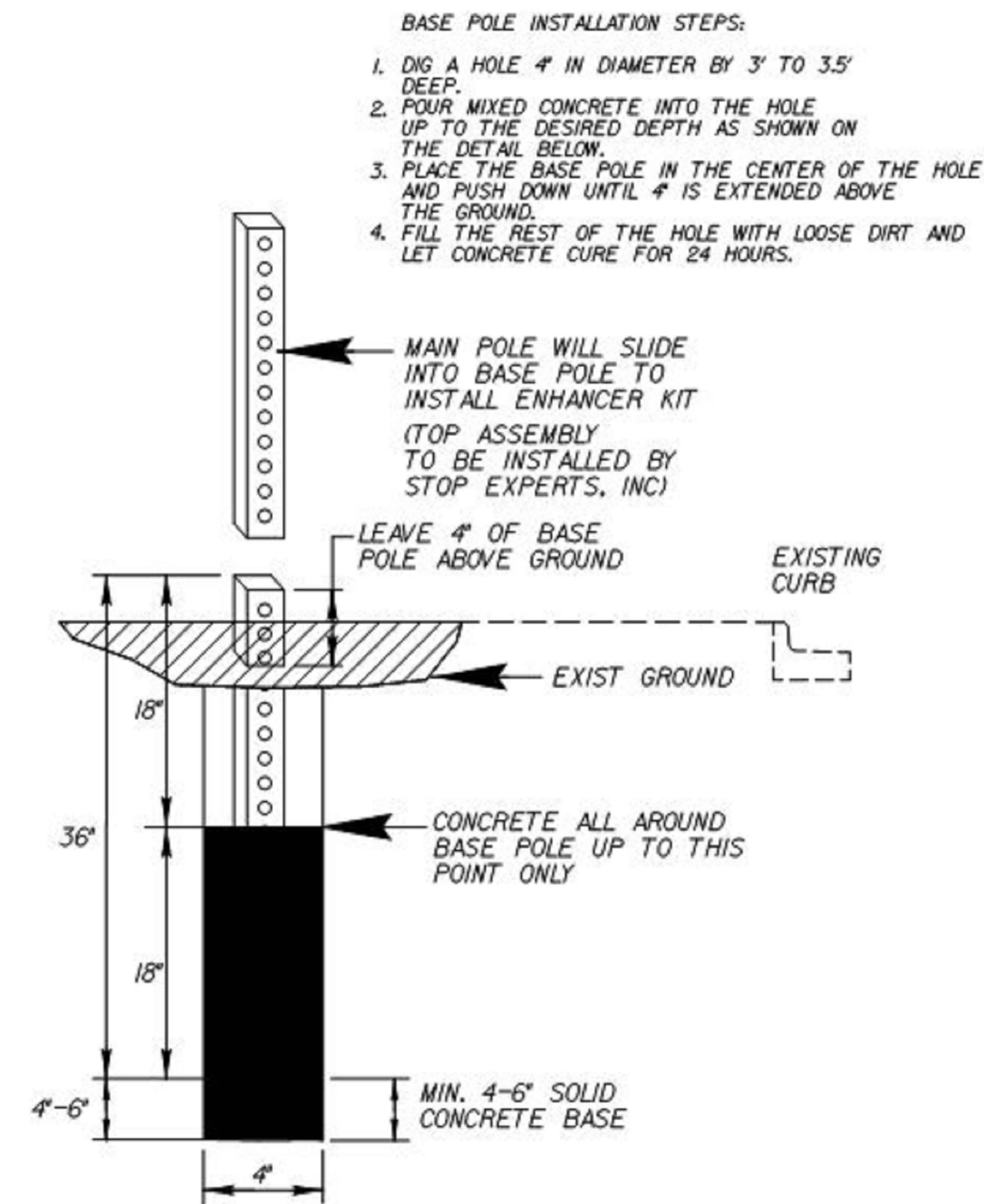
**ROADWAY STANDARD DRAWINGS:**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO.	TITLE
654.01	PAVEMENT REPAIRS
848.05	CURB RAMP - PROPOSED CURB AND GUTTER
904.50	MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL POSTS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1250.01	PAVEMENT MARKER SPACING
1743.02	PEDESTALS - NORMAL DUTY TYPE II

**NOTES**

- REFER TO "ROAD STANDARD DRAWINGS NCDOT" DATED JANUARY 2018, "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
- RRFB SHALL BE MOUNTED TO POWDER COATED BLACK AND THE CONTROLLER BOX SHALL BE LOCATED BEHIND THE SIGNS AND MOUNTED ON A TYPE II PEDESTAL (4.5" OD ALUMINUM POLES WITH TRANSFORMER BASES). REFER TO THE NCDOT ROADWAY STANDARD DRAWING 1743.02.



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**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652  
**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**SITE DETAILS**

JOB NO. 43398  
 SHEET NO. C7.11

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS