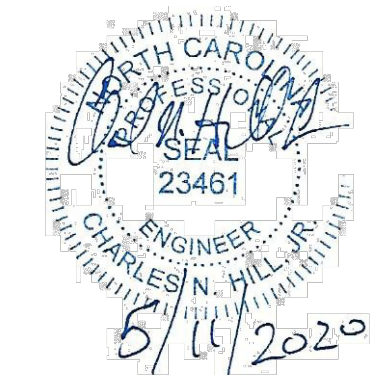


**COLUMBIA
 STREET ANNEX**

1150 South Columbia Street
 Chapel Hill, North Carolina

OWNER:
 CH HOTEL ASSOCIATES LLC,
 3008 ANDERSON DRIVE, SUITE 120
 RALEIGH NC 27609



If this drawing is not 24" x 36" it is a reduced print - refer to graphic scale

Date	For
24 May 18	Addition of RCD data
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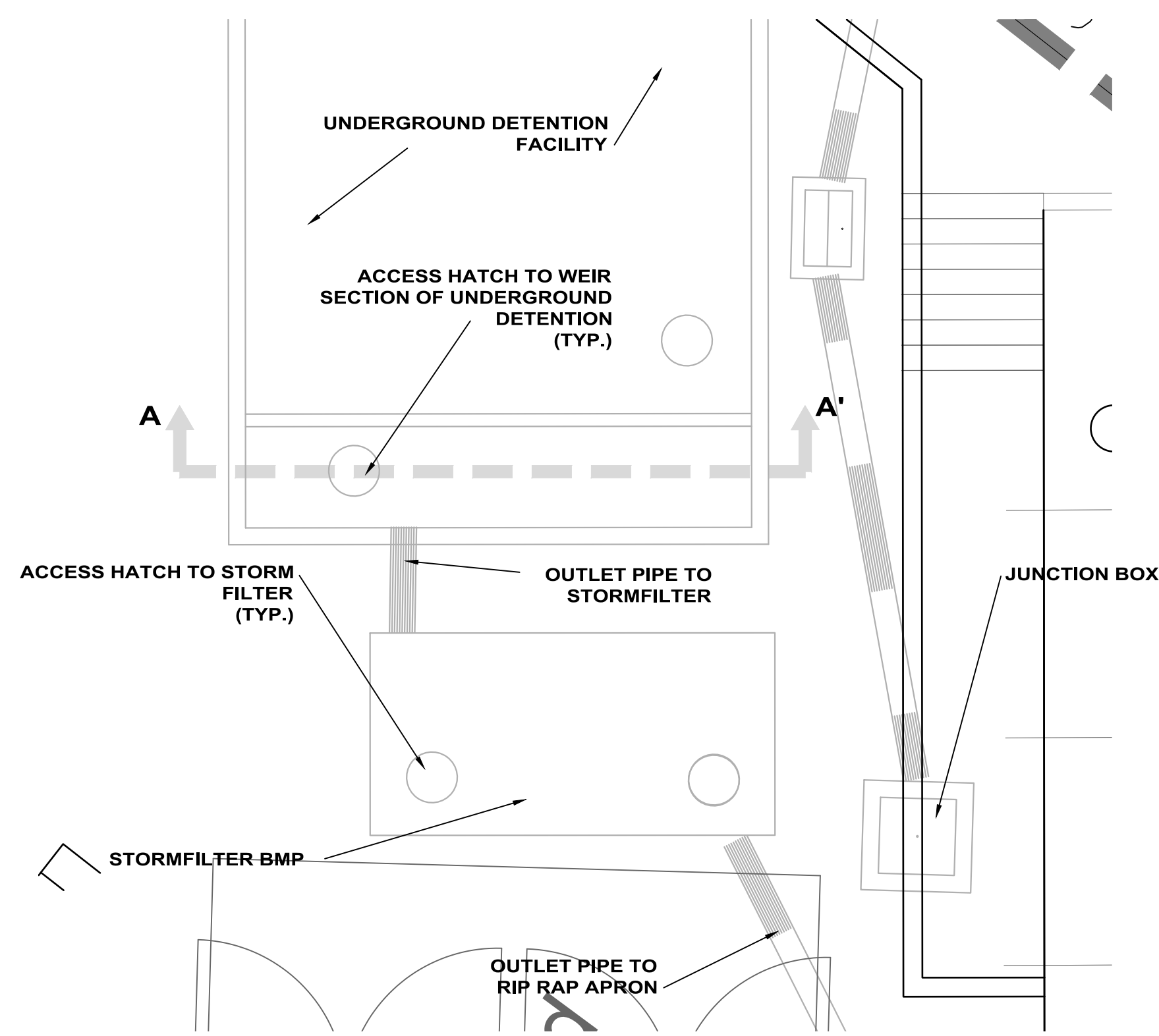
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Drawn By: WLR, MTC Date: 26 April 18

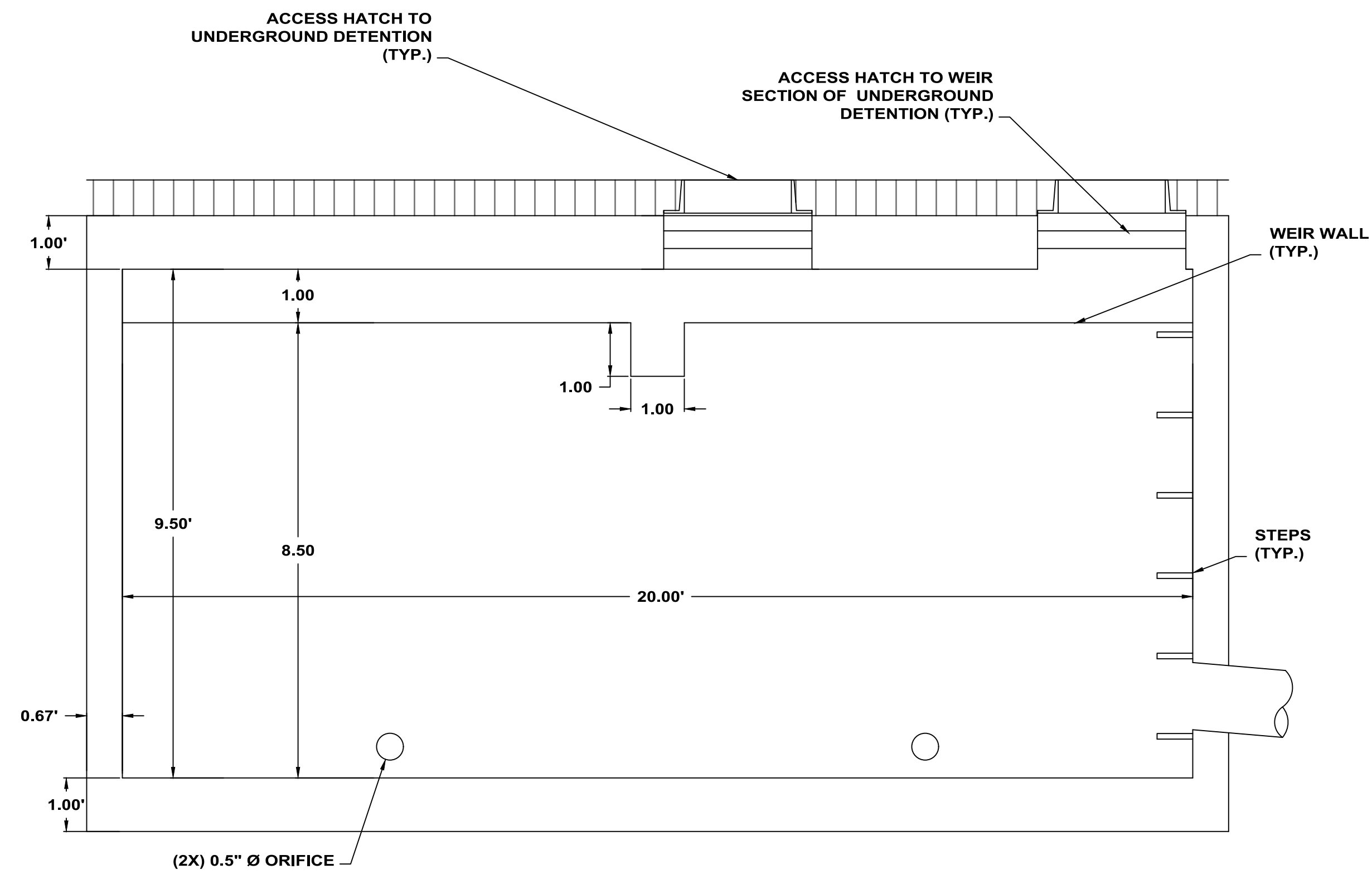
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**STORMWATER
 DETAILS**

SUP-8.1

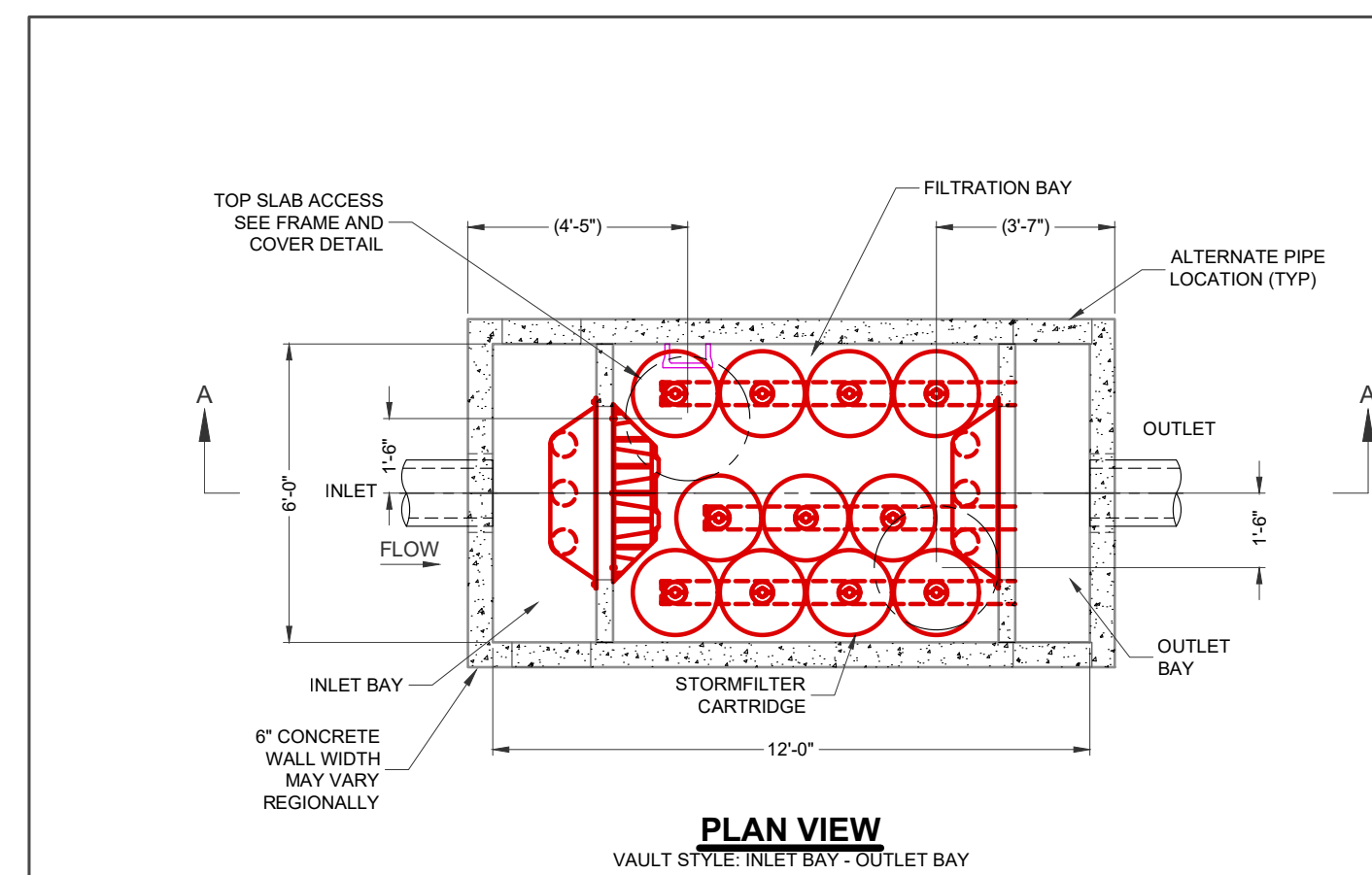


PLAN VIEW



SECTION A-A' VIEW

**1/SUP-8.1
 UNDERGROUND DETENTION FACILITY
 SECTION**

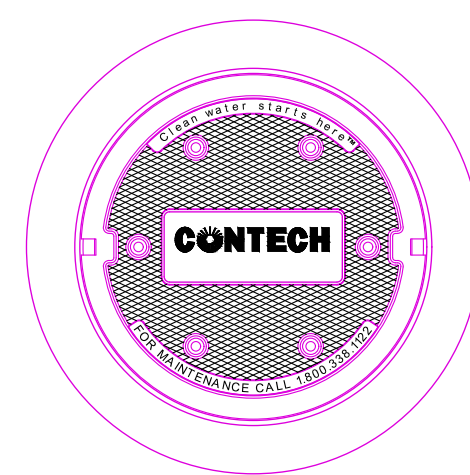


PLAN VIEW
 VAULT STYLE: INLET BAY - OUTLET BAY

STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD VAULT STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (11). VAULT STYLE OPTIONS INCLUDE: OUTLET BAY (11), FULL HEIGHT BAFFLE WALL (12).
 STORMFILTER 6X12 PEAK HYDRAULIC CAPACITY IS 1.6 CFS. IF THE SITE CONDITIONS EXCEED 1.6 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

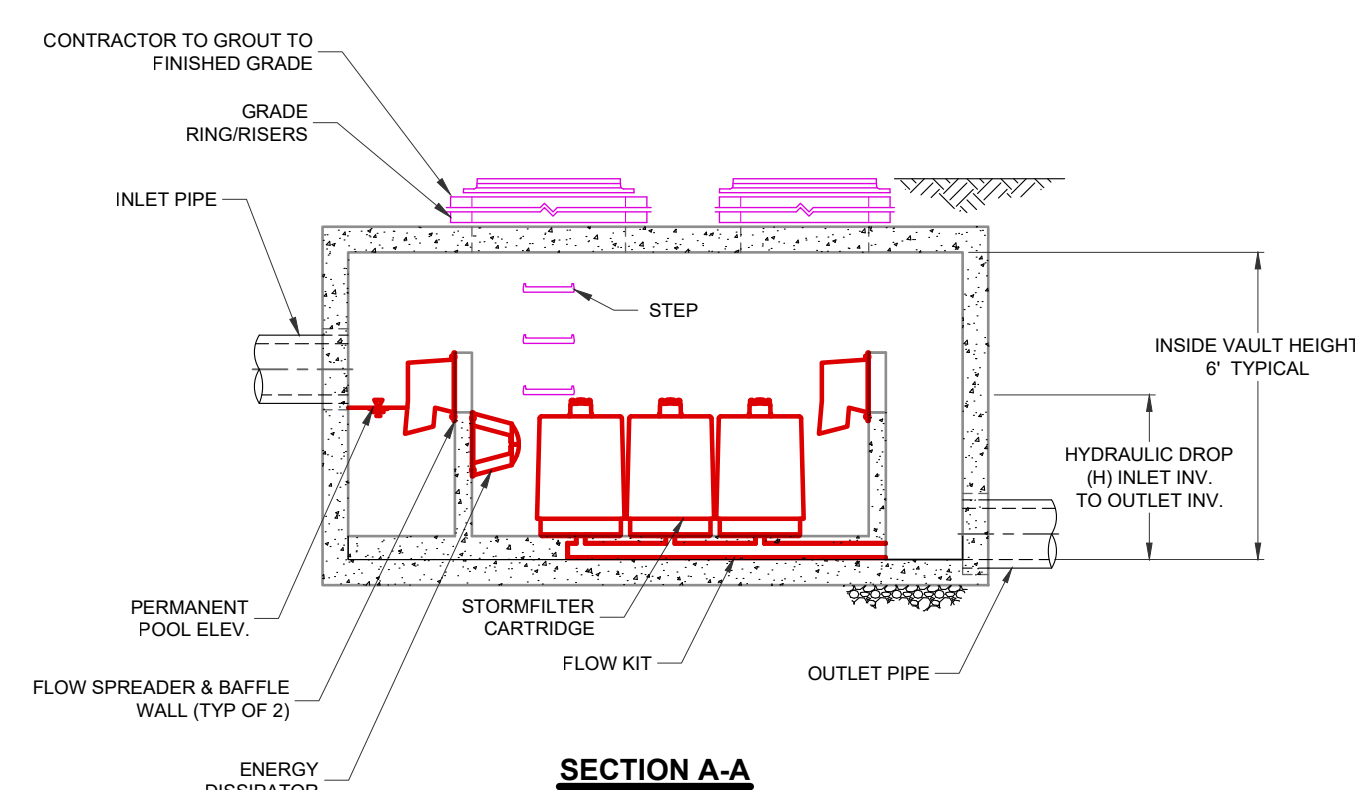
CARTRIDGE SELECTION	27"	18"	LOW DROP
CARTRIDGE HEIGHT	3'0"	2'3"	1'6"
RECOMMENDED HYDRAULIC DROP (H)	2 gpm/ft ²	1 gpm/ft ²	2 gpm/ft ²
SPECIFIC FLOW RATE (gpm/ft ²)	22.5	11.25	15
CARTRIDGE FLOW RATE (gpm)	1	7.5	10
			5



FRAME AND COVER
 (DIAMETER VARIES)
 N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	-
WATER QUALITY FLOW RATE (cfs)	-
PEAK FLOW RATE (cfs)	-
RETURN PERIOD OF PEAK FLOW (yrs)	-
# OF CARTRIDGES REQUIRED	-
CARTRIDGE FLOW RATE	-
MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS)	-
PIPE DATA	TE MATERIAL DIAMETER
INLET PIPE #1	-
INLET PIPE #2	-
OUTLET PIPE	-
UPSTREAM RIM ELEVATION	-
DOWNSTREAM RIM ELEVATION	-
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	-
* PER ENGINEER OF RECORD	



SECTION A-A'

- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
 - STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO MIXER AND BE CAST WITH THE CONTECH LOGO.
 - FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 30 SECONDS.
 - SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).
- INSTALLATION NOTES**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER VAULT (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT SECTIONS AND ASSEMBLE VAULT.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



STORMFILTER
 STANDARD DETAIL

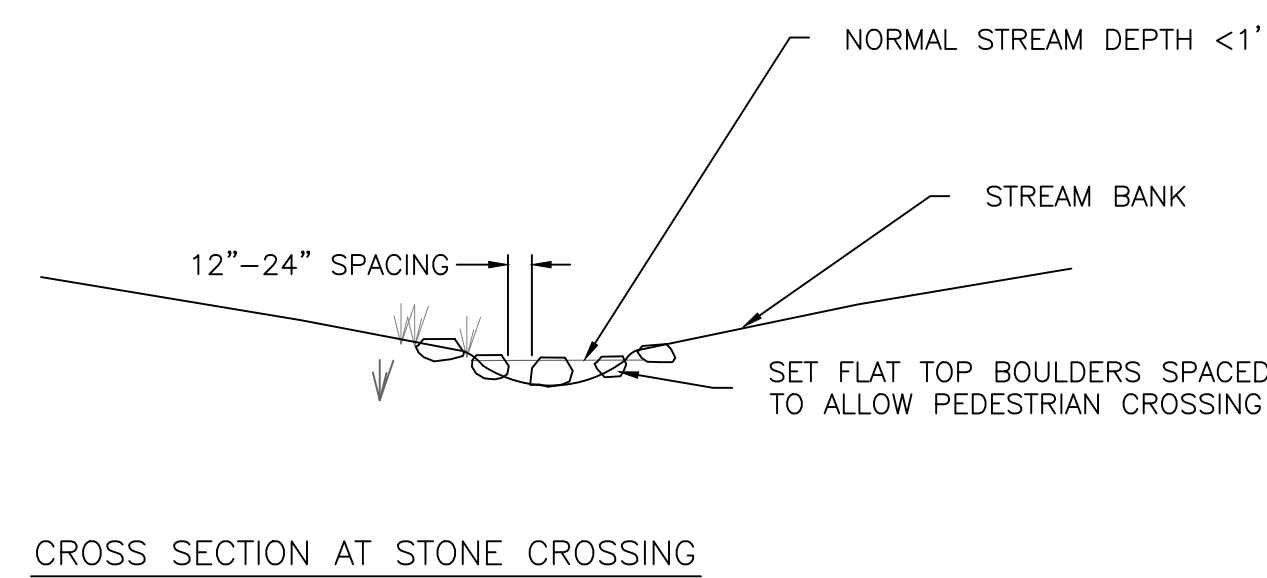
**2/SUP-8.1
 STORMFILTER BMP
 NTS**



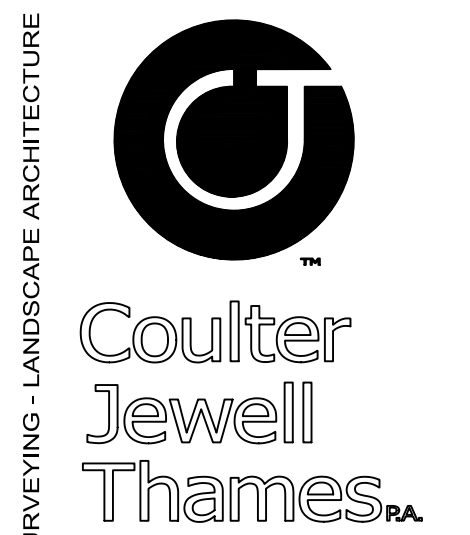
1/SUP-8.2
ON SITE STREAM AREA
SCALE: 1"=30'

- STREAM AREA PROPOSED WORK:
1. REMOVE TRASH FROM THE STREAM AND STREAMSIDE RCD AREA
 2. REMOVE INVASIVE PLANT MATERIAL FROM THE STREAMSIDE RCD AREA
 3. REMOVE CULVERT AND REGRADE TO ALLOW STREAM FLOW THROUGH EXISTING BERM
 4. PLANT SEDGE PLUGS INTO THE DISTURBED AREA NEAR THE CULVERT REMOVAL TO STABILIZE THE DISTURBED AREA.
 5. CREATE A MULCH SURFACE NATURE TRAIL INCLUDING TWO STREAM CROSSINGS OF STRATEGICALLY PLACED BOULDERS

2/SUP-8.2
SUMMARY OF WORK TO BE DONE IN STREAM AREA



3/SUP-8.2
ON SITE STREAM CROSSING
SCALE: 1"=10'



111 West Main Street
Durham, N.C. 27701
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www.cjtpa.com

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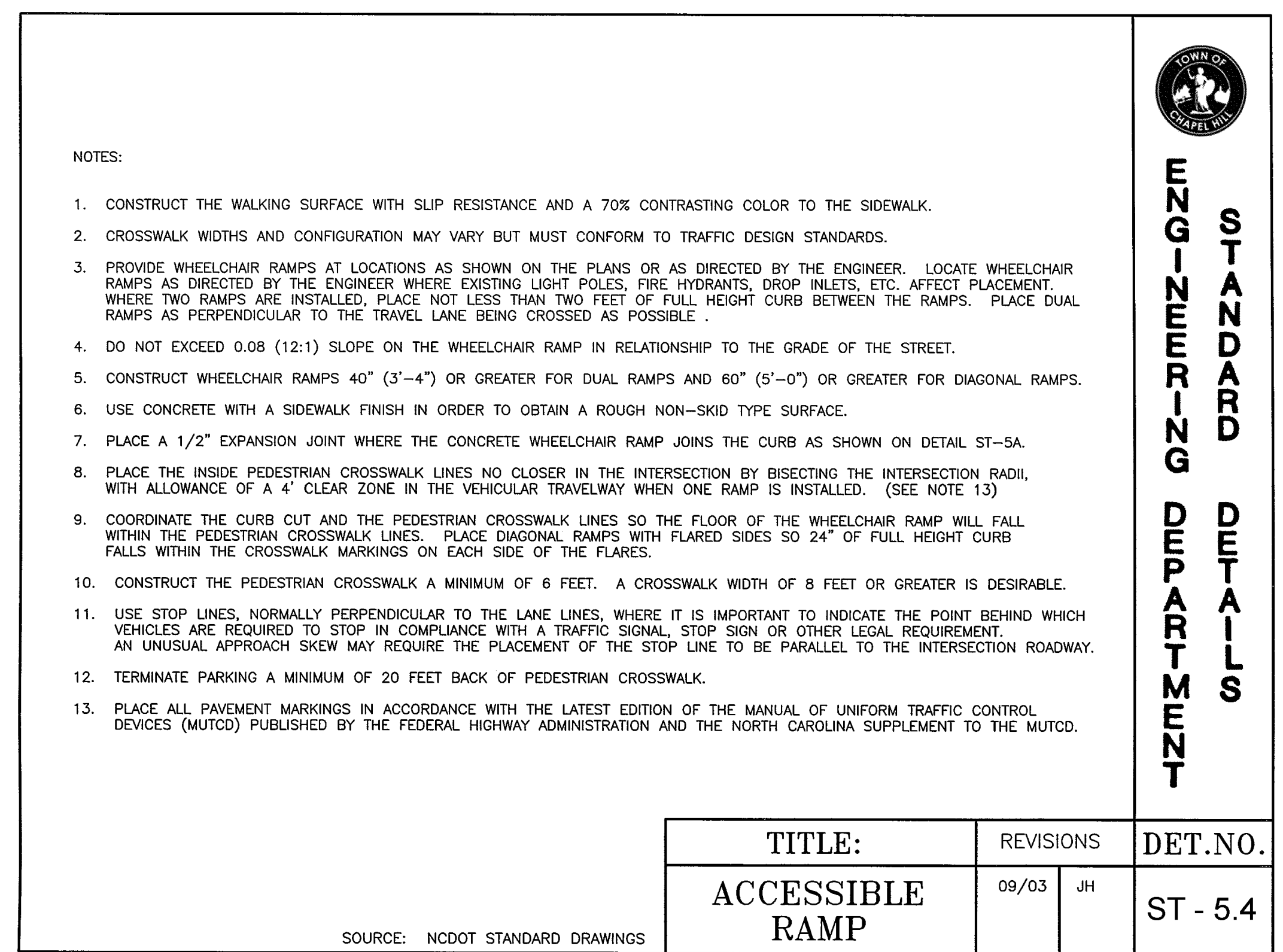
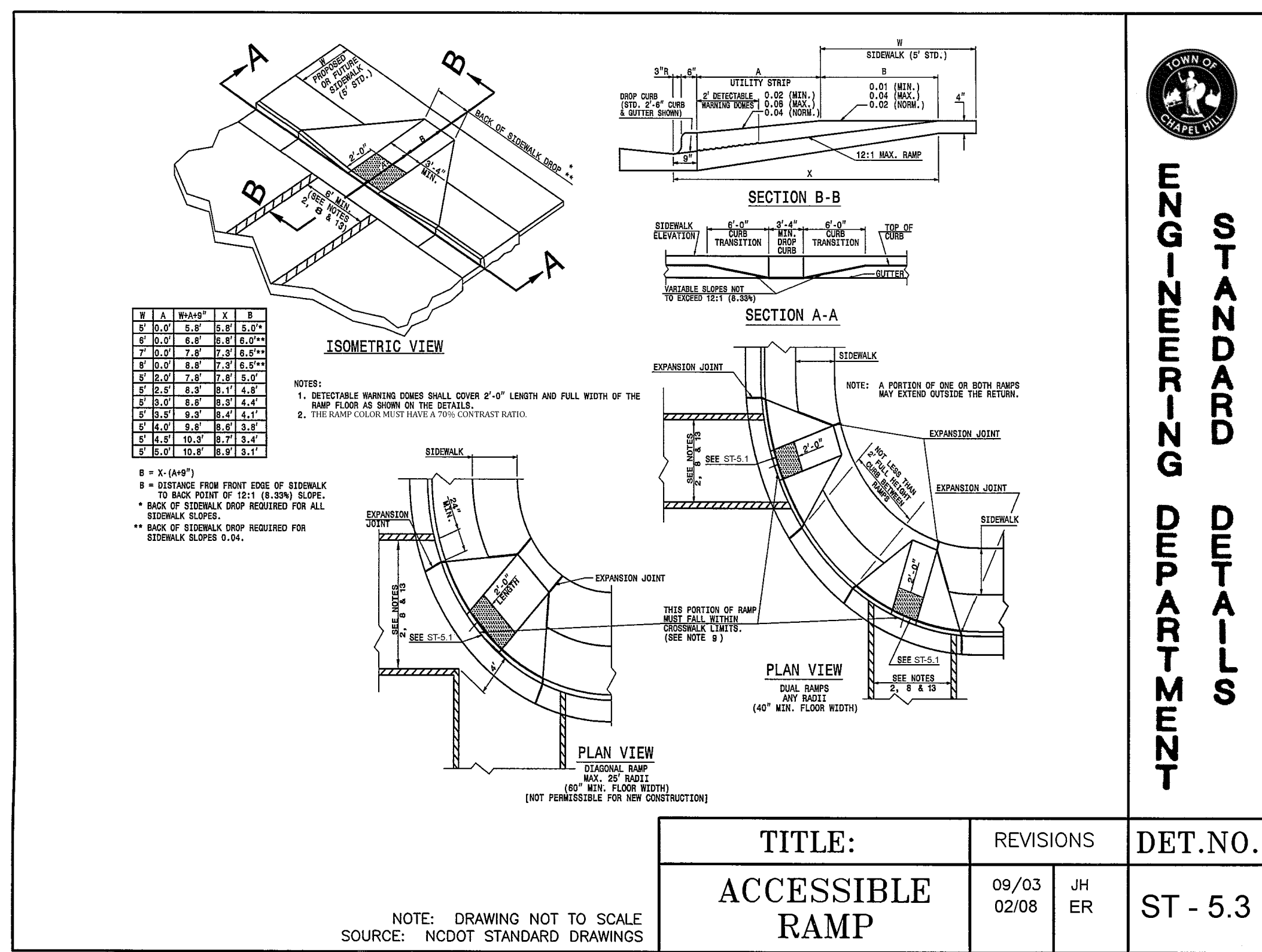
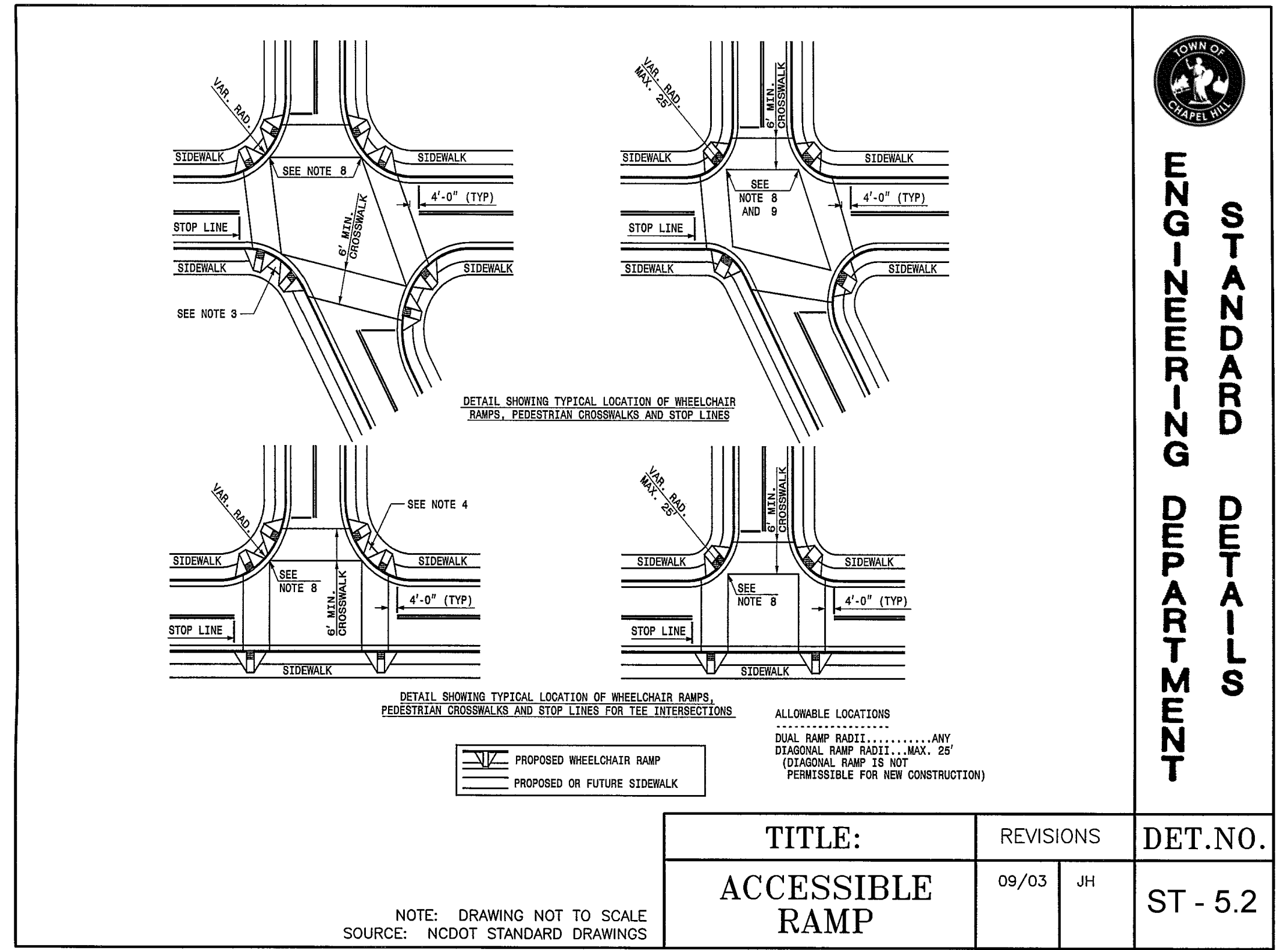
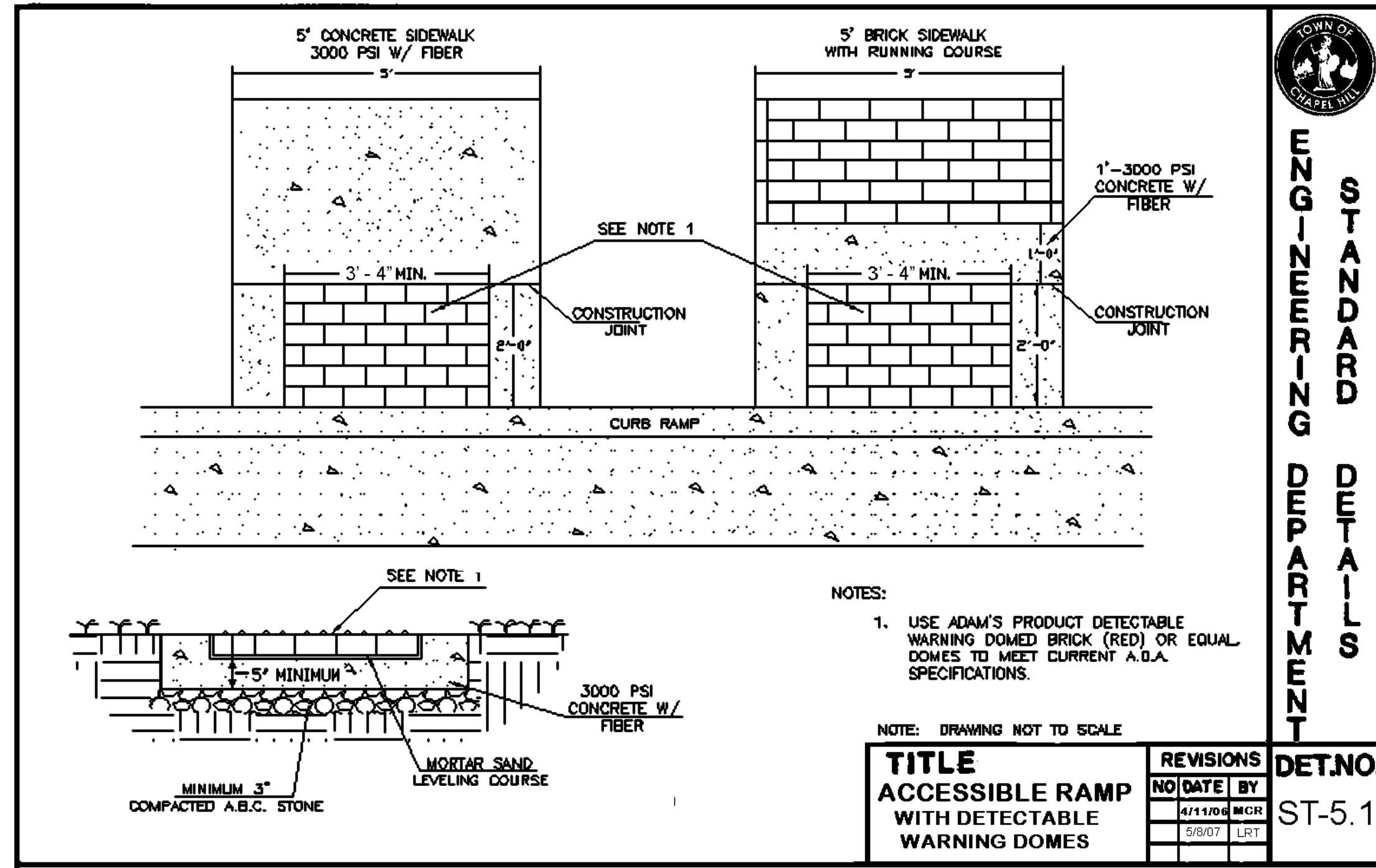
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Drawn By: WLR, MTC Date: 26 April 18

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**STREAM
RESTORATION
DETAILS**

SUP-8.2



ENGINEERING - LAND SURVEYING - LANDSCAPE ARCHITECTURE

Coulter Jewell Thames P.A.

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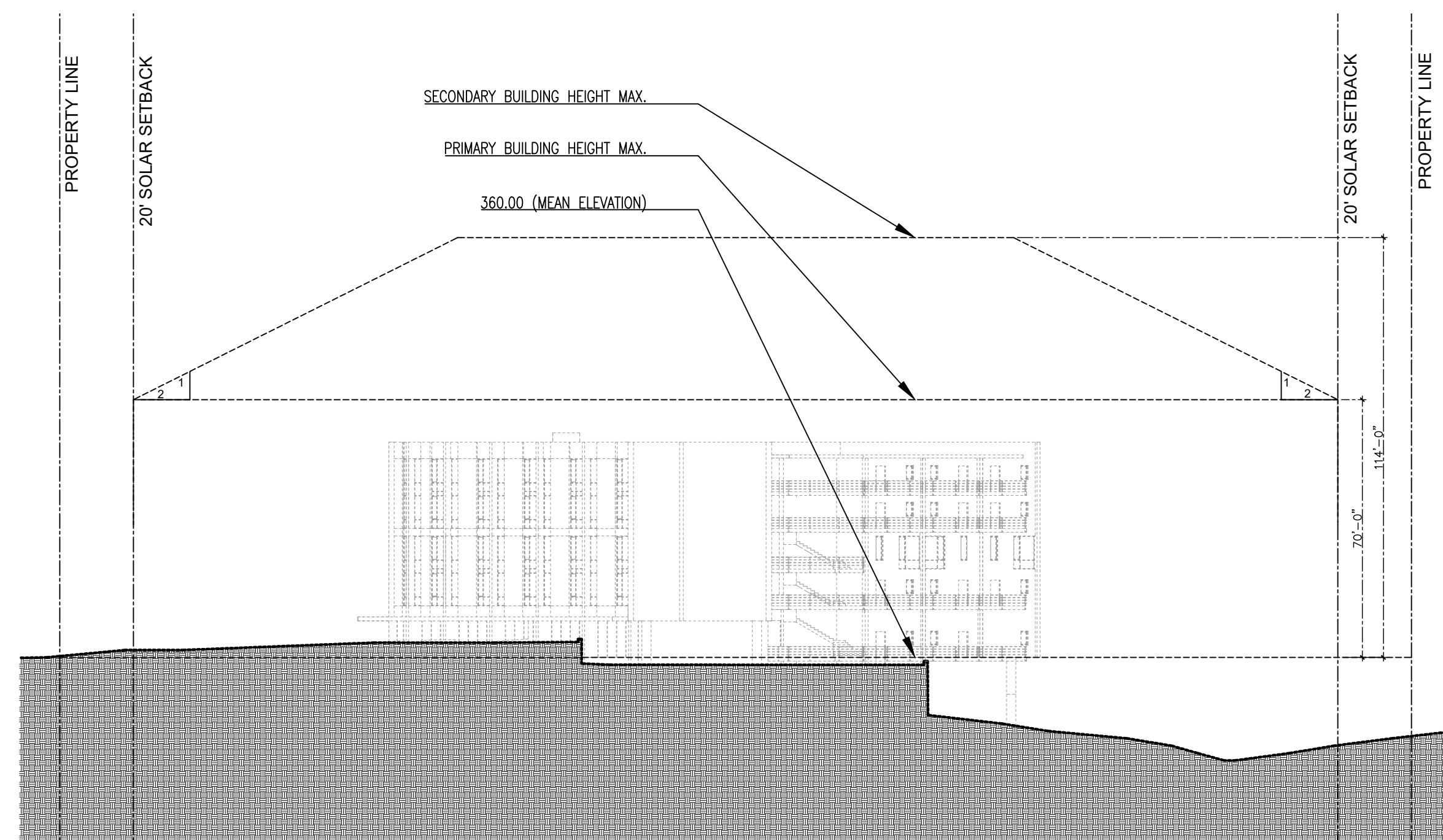
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SITE DETAILS

Columbia
Annex

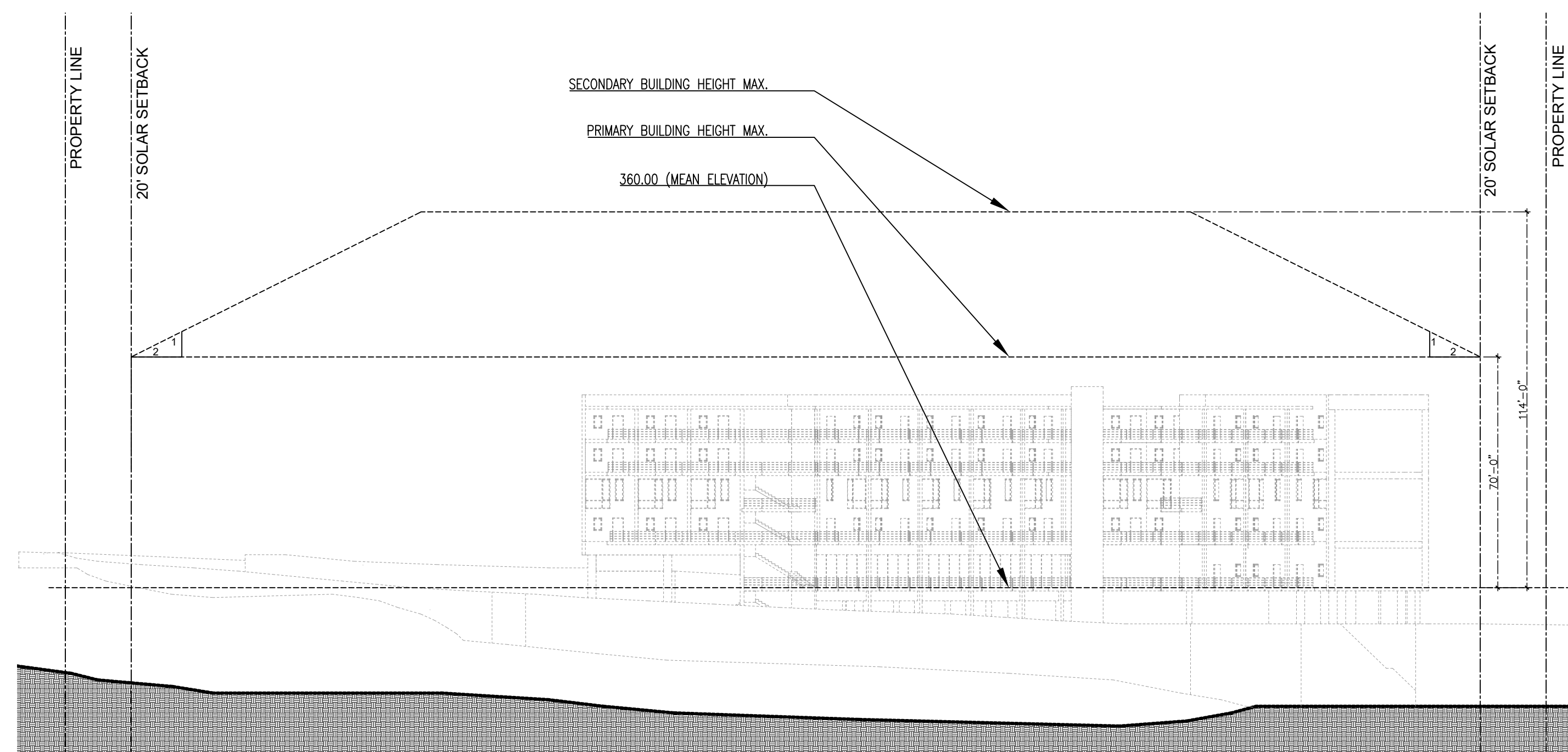
SOUTH COLUMBIA STREET
Chapel Hill, NC

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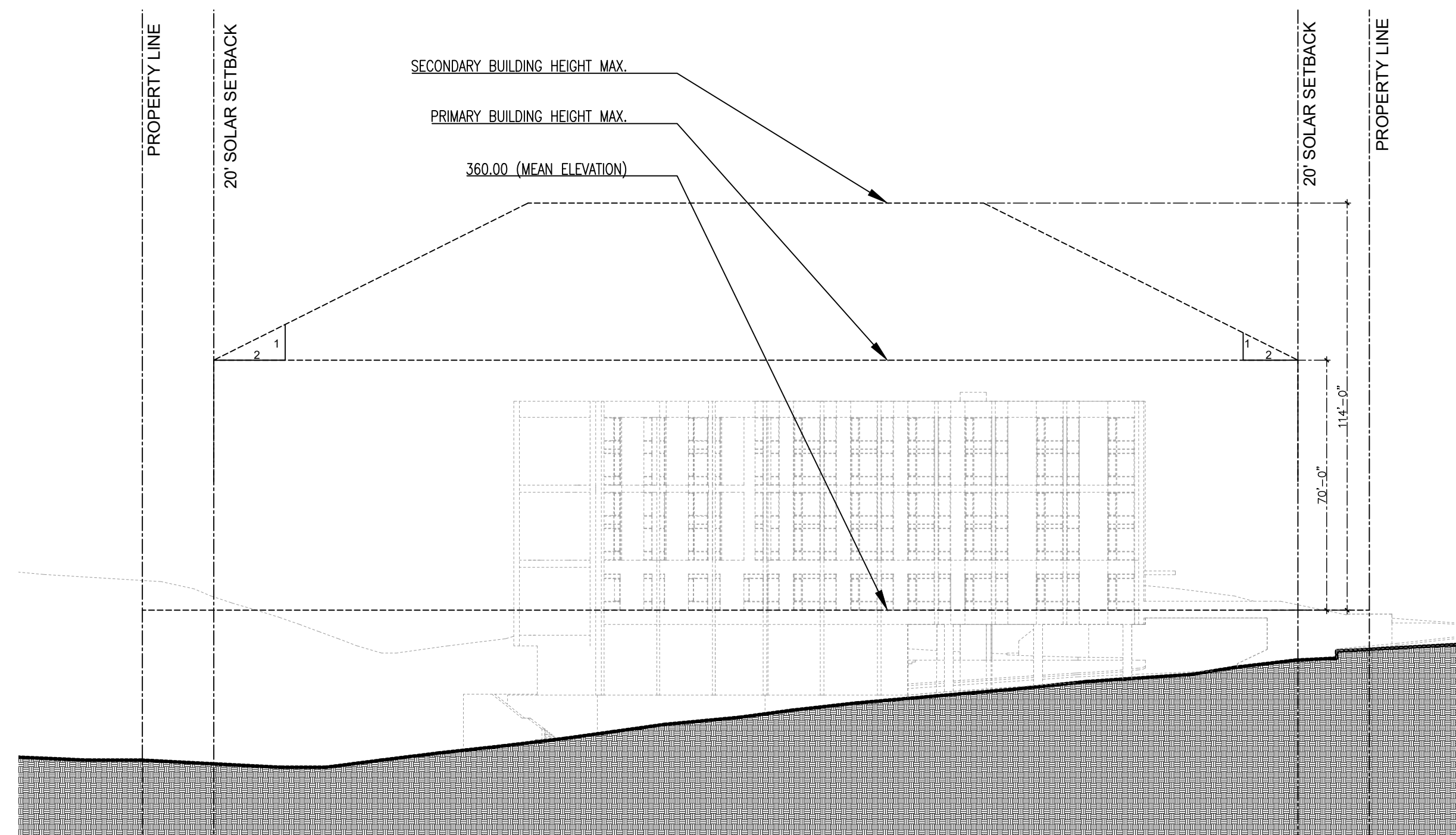
NORTH ELEVATION
Scale: 1/32" = 1'-0"

3



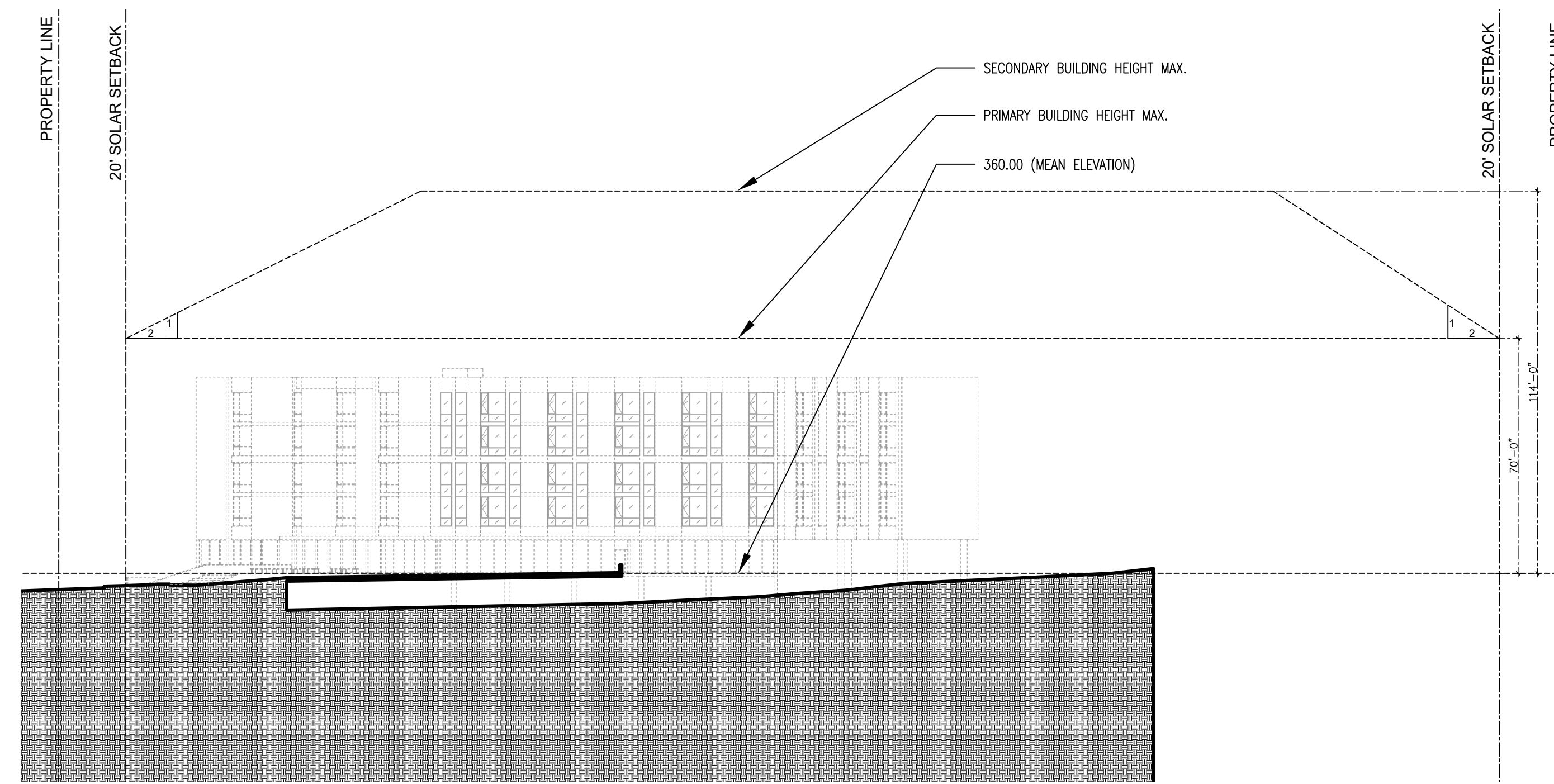
WEST ELEVATION
Scale: 1/32" = 1'-0"

2



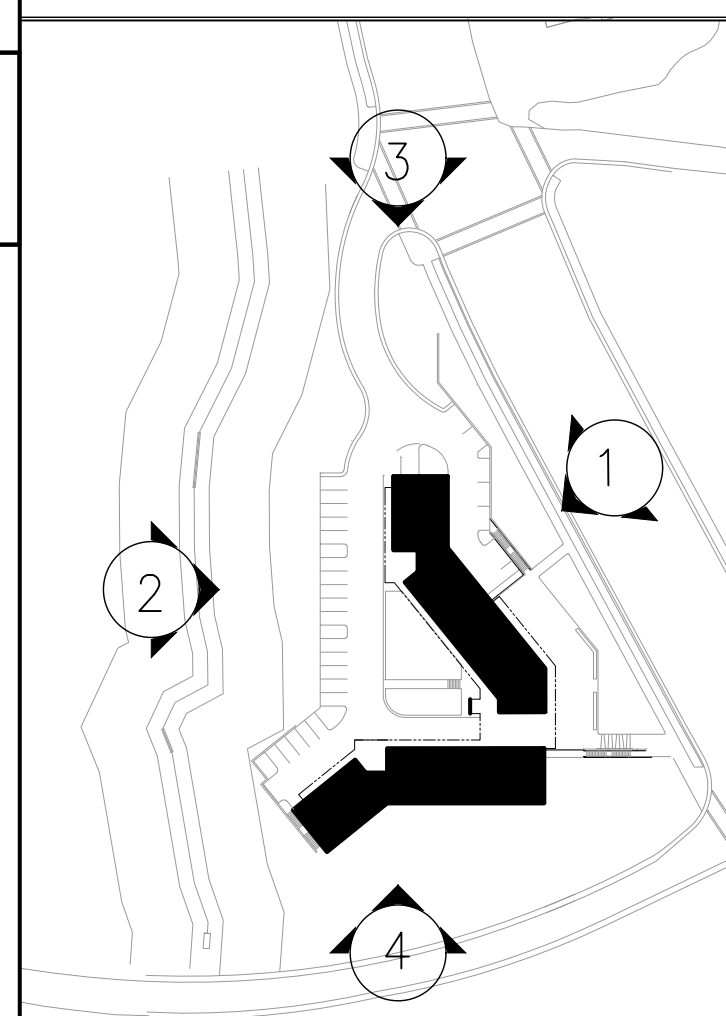
SOUTH ELEVATION
Scale: 1/32" = 1'-0"

4



EAST ELEVATION
Scale: 1/32" = 1'-0"

1



NO.	DATE	DESCRIPTION
1	JULY 24, 2017	CONCEPT PLAN APPLICATION
2	MAY 05, 2019	SUP SUBMITTAL
3	FEB 14, 2020	SUP SUBMITTAL - REVISIONS
4		
5		
6		
7		
8		
9		
10		

A-5.3
EXHIBIT: BUILDING HEIGHT
ZONING ENVELOPE DIAGRAM
SUP SUBMITTAL

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