

VOLANTA GULLEY WATERSHED

PHASE I DRAINAGE RESTORATION PROJECTS

CITY OF FAIRHOPE

MARCH 2012

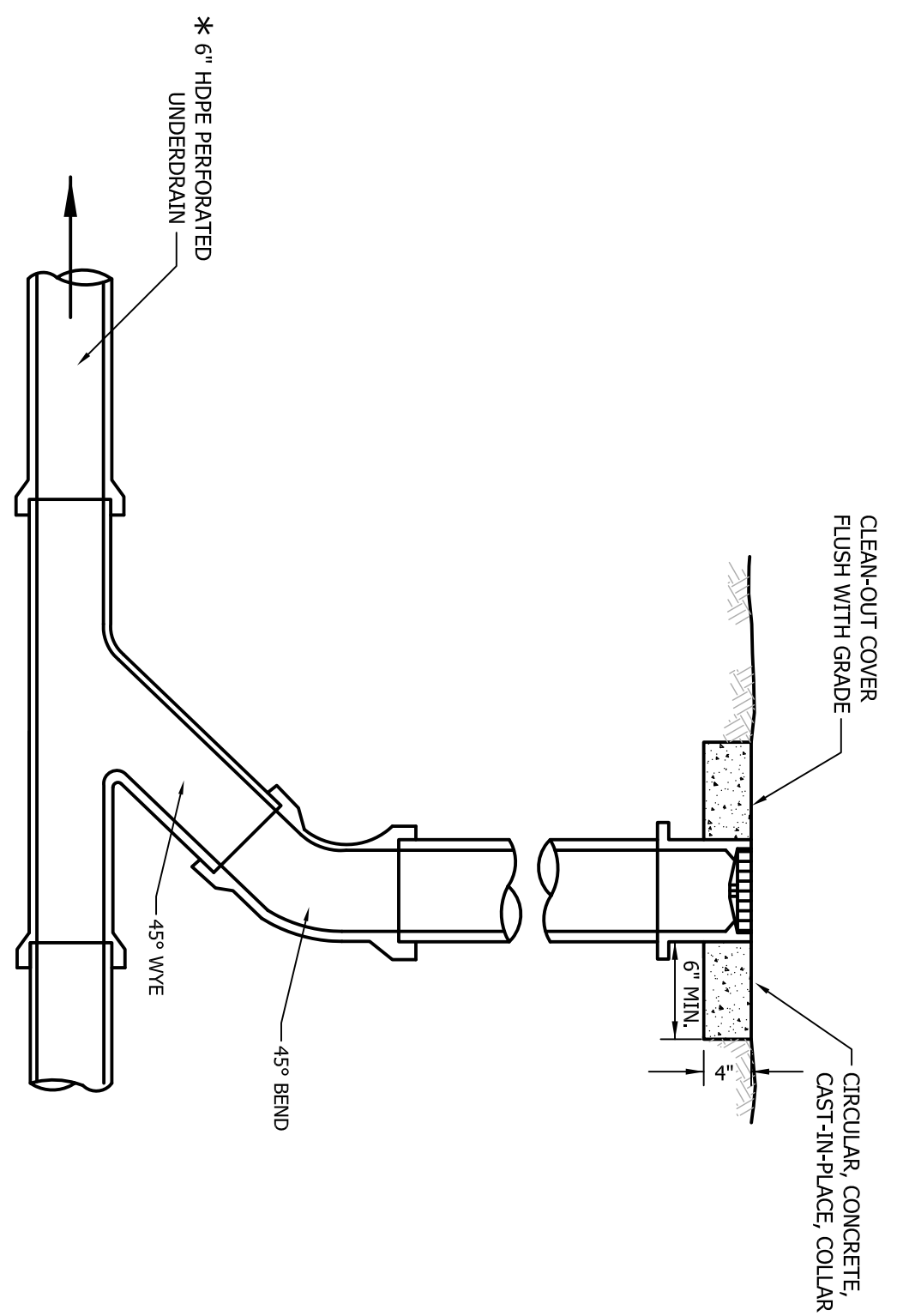


INDEX TO SHEETS

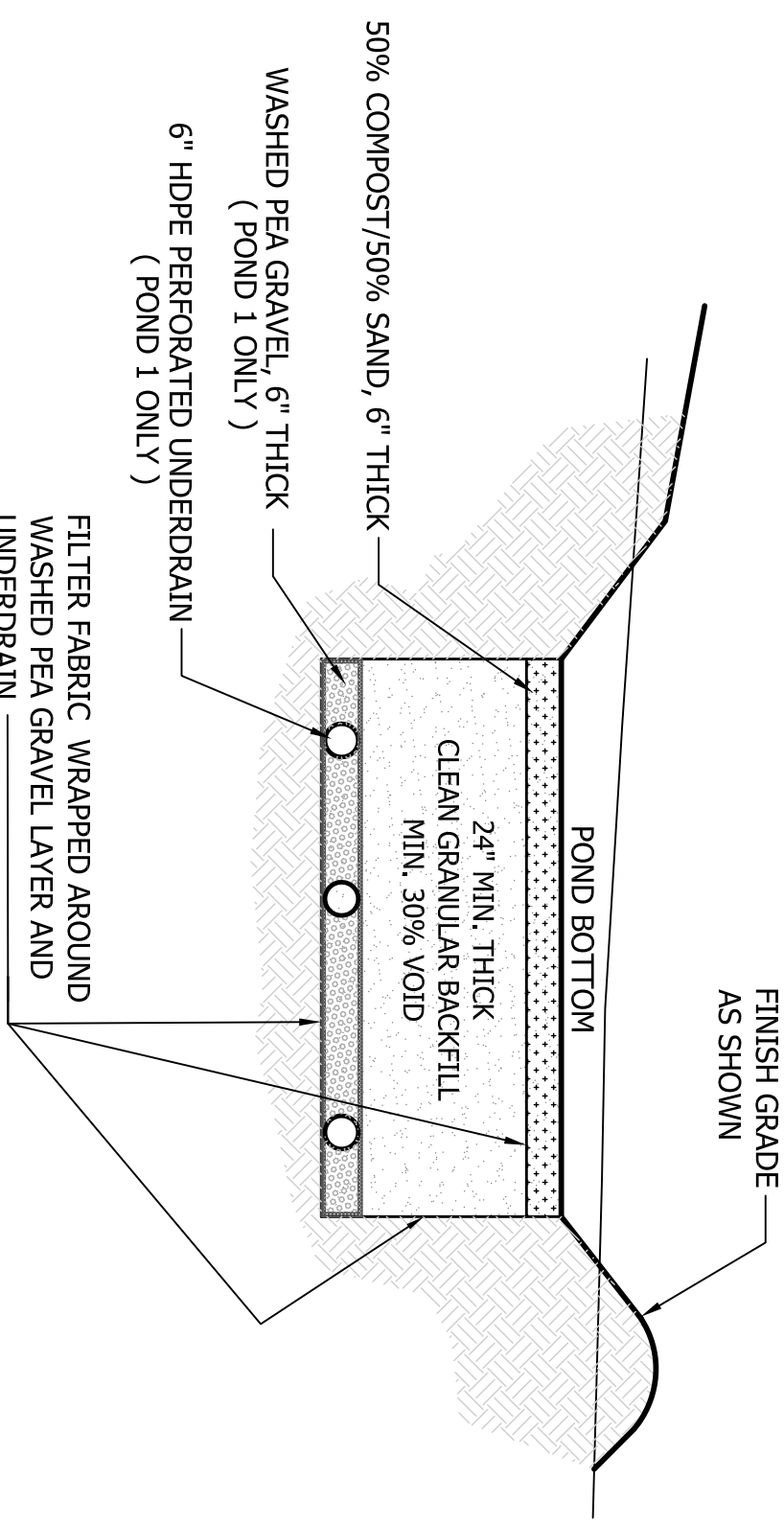
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3	VOLANTA PARK: CIVIL CONSTRUCTION DETAILS
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THE FOLLOWING ARE SPECIAL OR STANDARD DRAWINGS CONTAINED IN ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL AND STANDARD HIGHWAY DRAWINGS, VOLUME 20 WHICH APPLY TO THIS PROJECT.

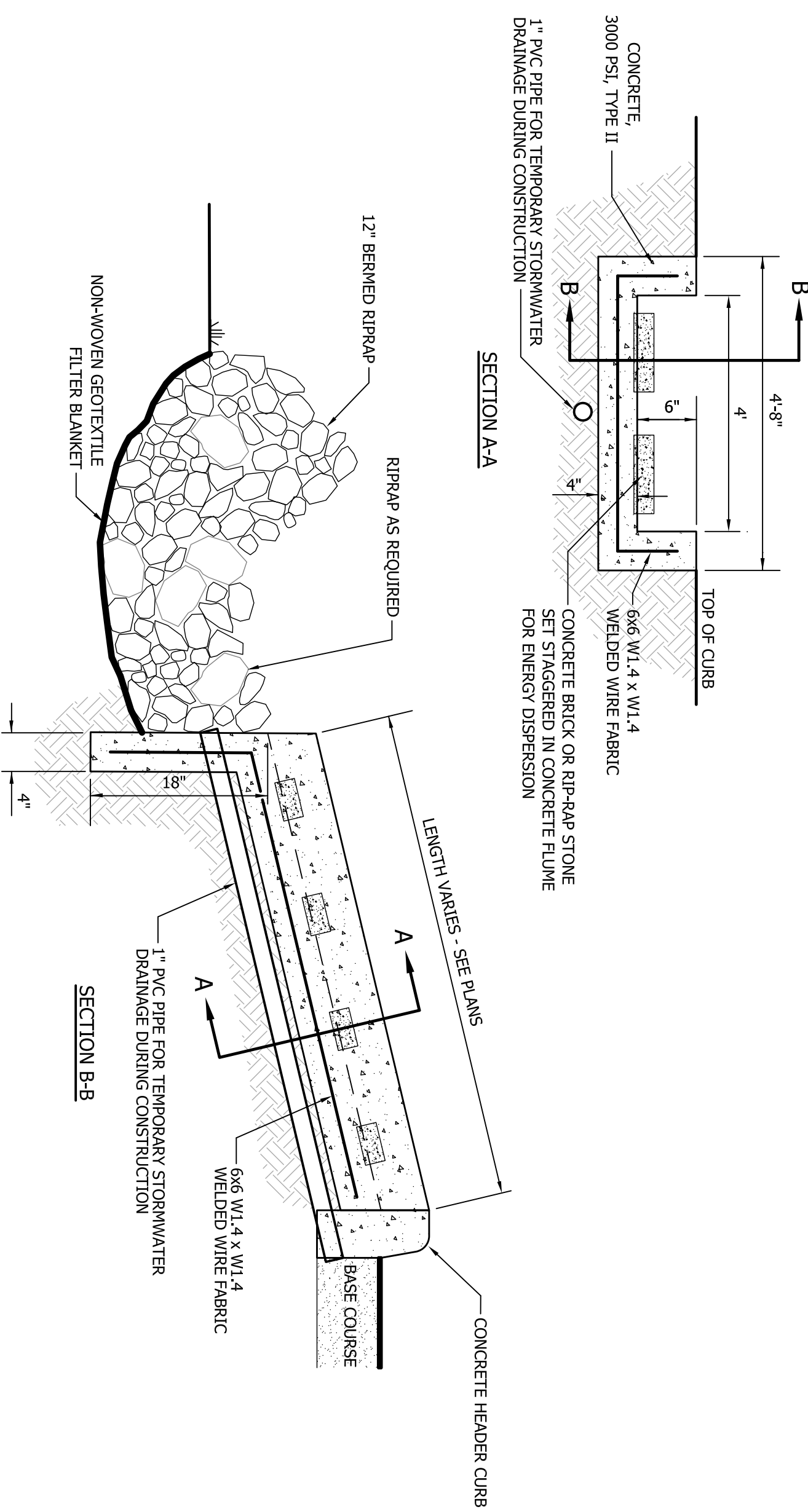
INDEX NO.	SPECIAL DRAWING NO.	DESCRIPTION
413	HW-6143 (SHEET 1 OF 2)	SLOPE PAVED HEADWALL DETAIL FOR REINFORCED CONCRETE
414	HW-6143 (SHEET 2 OF 2)	SLOPE PAVED HEADWALL DETAIL FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
442	PL-529	PIPE
447	PRC-530 (SHT. 1 OF 2)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS
448	PRC-530 (SHT. 2 OF 2)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS
521	FD (DCS 71)	STANDARD DESIGN NOTED FOR PLAN RESUBMITS
521	DCS	STANDARD DESIGN NOTED FOR PLAN RESUBMITS



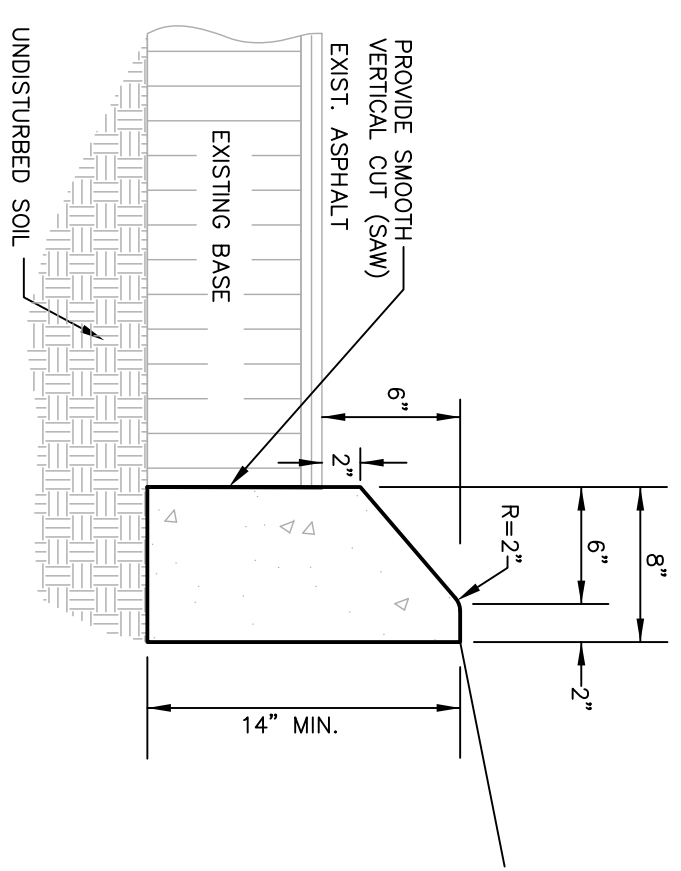
UNDERDRAIN CLEAN-OUT
NTS



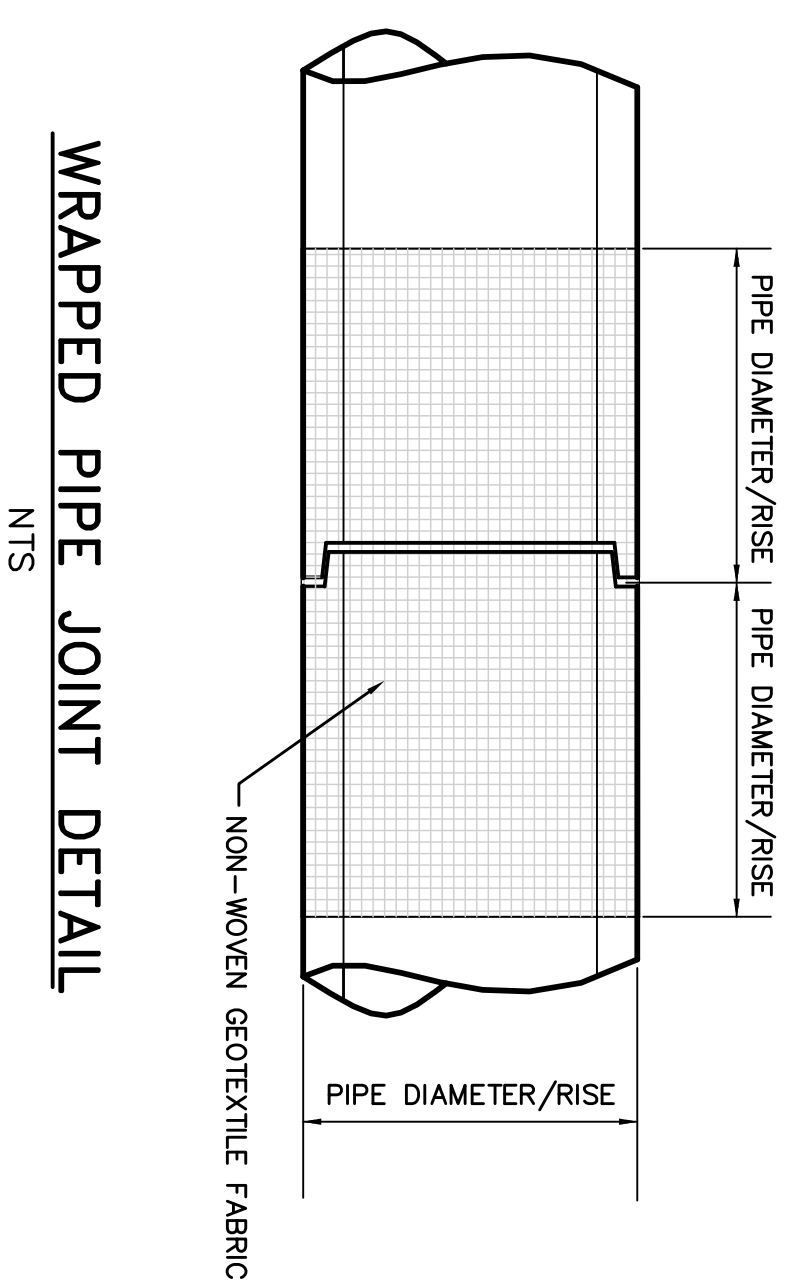
SUBSURFACE STORAGE AND FILTER MEDIA SECTION
NTS



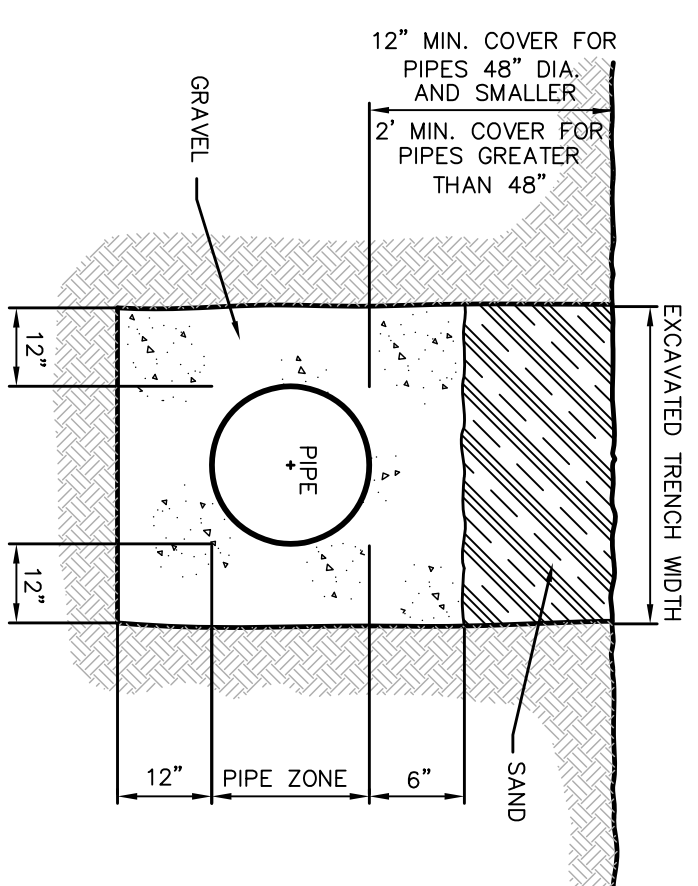
CONCRETE FLUME DETAIL
NTS



ALDOT TYPE "N" CONCRETE CURB
(OR APPROVED EQUAL)
NTS

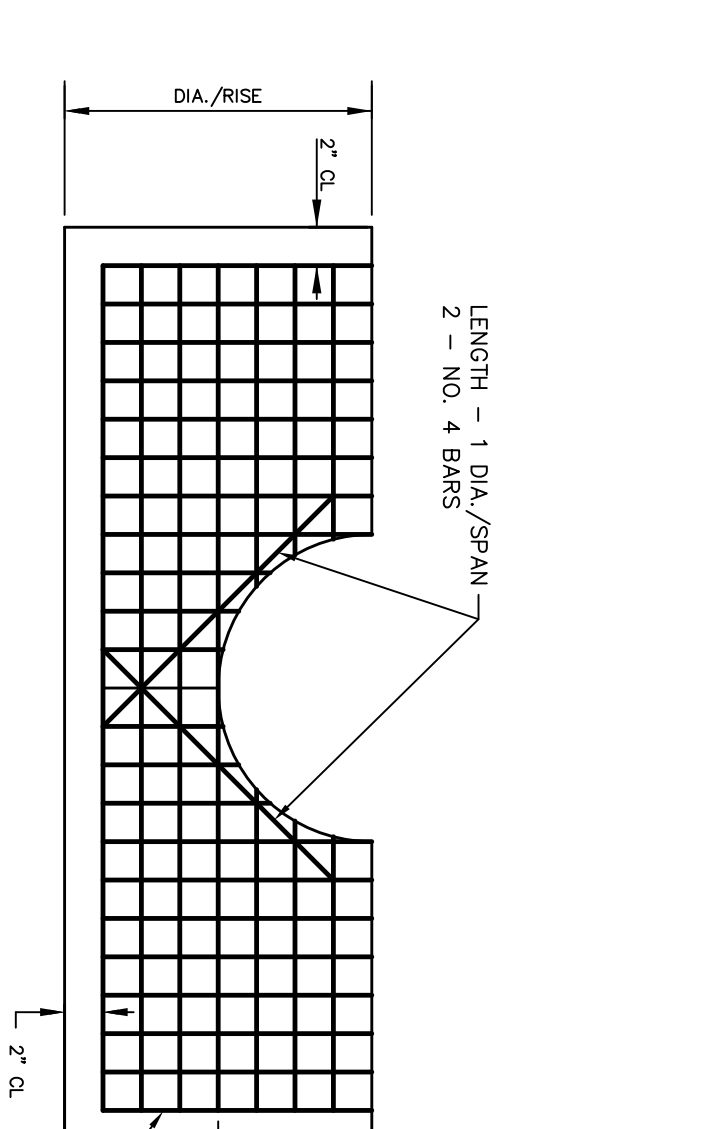
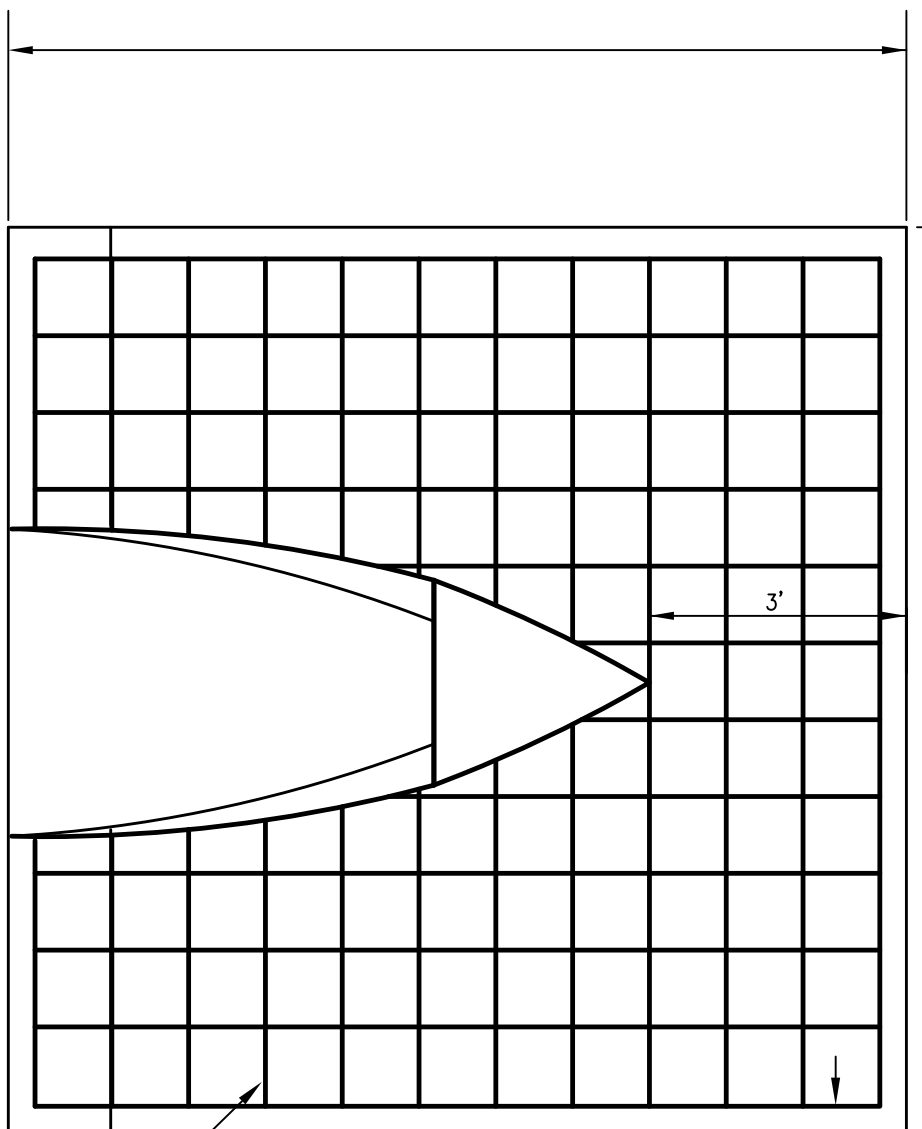


WRAPPED PIPE JOINT DETAIL
NTS

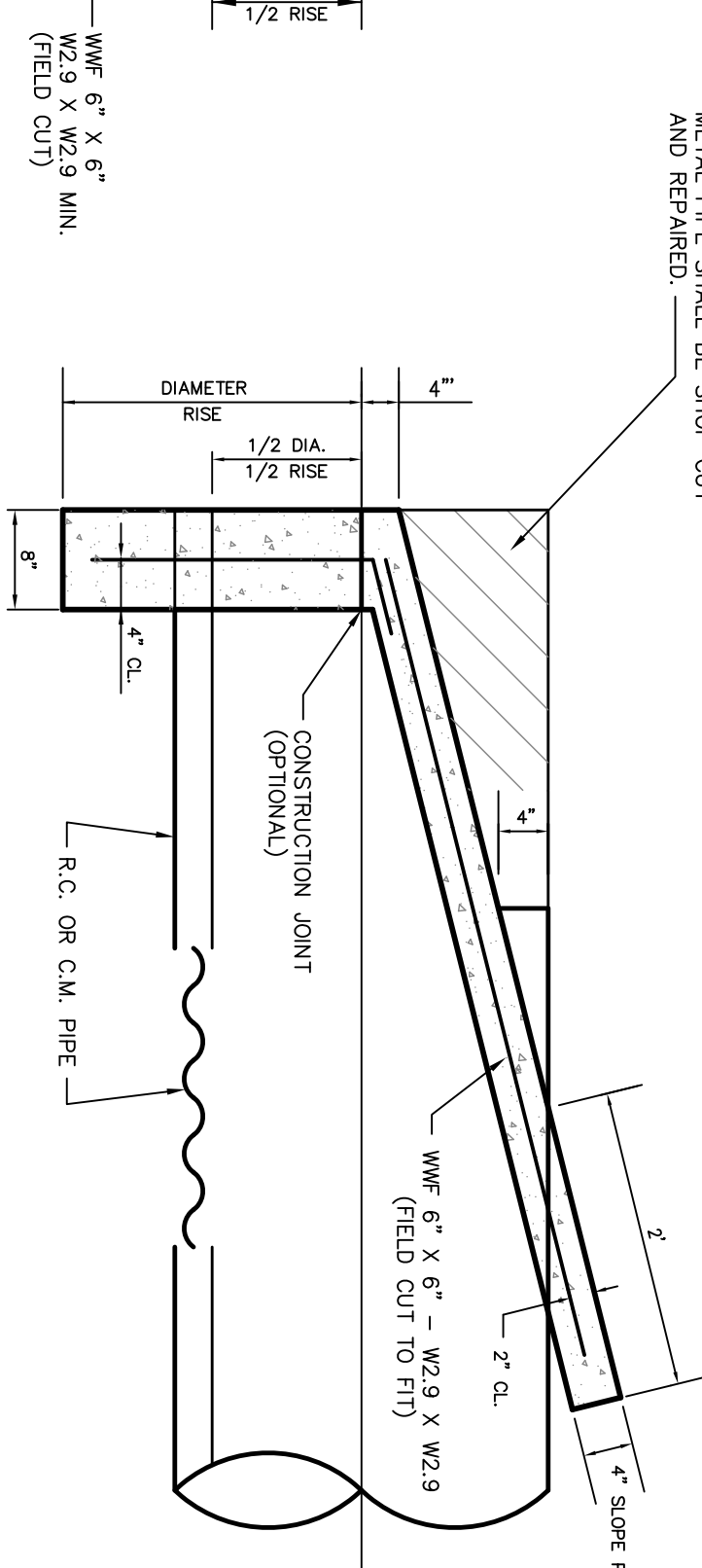


TRENCH BACKFILL DETAIL
NTS

SIDERAIN PIPE HEADWALL				
PIPE SIZE	SLOPE	A	B	CUT-UP (EACH)
12"	3:1	6'-0"	5'-0"	0.50
24"	3:1	9'-0"	6'-0"	0.80



END VIEW - CONCRETE PIPE



SIDE VIEW

SLOPE PAVED HEADWALL FOR REINFORCED CONCRETE PIPE
NTS

- GENERAL NOTES**
1. THE TRENCH SHALL BE PLACED AND FINISHED AND ALL SHORING REMOVED BEFORE ANY CONCRETE SHALL BE PLACED ON SLOPES.
 2. QUANTITIES SHOWN INCLUDES TWO (2) COMPLETE HEADWALLS, UNLESS NOTED OTHERWISE.
 3. WHERE 6:1 FRONT SLOPES ARE REQUIRED, THEY SHALL BE ADJUSTED AS NEEDED TO FIT.
 4. SLOPE PAVING SHALL BE PLACED ON SLOPES AND SHALL BE PLACED ON SLOPES TO SLOPE LINE TO FIT SLOPED CONDITIONS SHOWN ON THIS DRAWING APPLIES TO REINFORCED CONCRETE AND CORRUGATED METAL PIPES.
 5. DETAILS AND QUANTITIES SHOWN ON THIS DRAWING APPLIES TO REINFORCED CONCRETE AND CORRUGATED METAL PIPES.
 6. SLOPE PAVED WITHOUT GRATE SHALL BE CLASS 1. HEADWALL WITH GRATE SHALL BE CLASS 2.
 7. PIPES LARGER THAN 30 INCHES IN DIAMETER SHALL HAVE A CLASS 2 END TREATMENT WHEN TERMINATED WITHIN THE CLEAR ZONE.
 8. ADDITIONAL 4 INCH THICK TOPWALL, 12 INCHES DEEP WILL BE REQUIRED ON 30" AND 48" SKEW HEADWALLS. SEE DIMENSION "D" ON PLAN VIEW.
 9. A MINIMUM OF 12 INCHES COVER IS TO BE PLACED OVER EACH PIPE THAT IS 48 INCHES DIAMETER OR LARGER. A MINIMUM OF 9 INCHES COVER IS TO BE PLACED OVER EACH SLOPES THAT IS GREATER THAN 48 INCHES IN DIAMETER.
 10. ADJACENT PIPES SHALL HAVE A CLEAR SPACING BETWEEN PIPES OF AT LEAST ONE HALF THE PIPE DIAMETER.

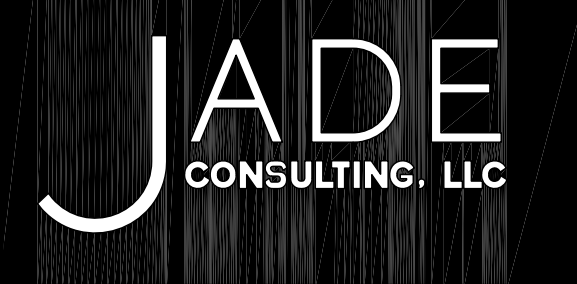
REMOVE LAPPED PORTION OF PIPE BY SAWING AFTER SLOPE PAVING HAS BEEN COMPLETED. REMOVE EXCESS METAL PIPE SHALL BE SHIP OUT AND REFINISHED.

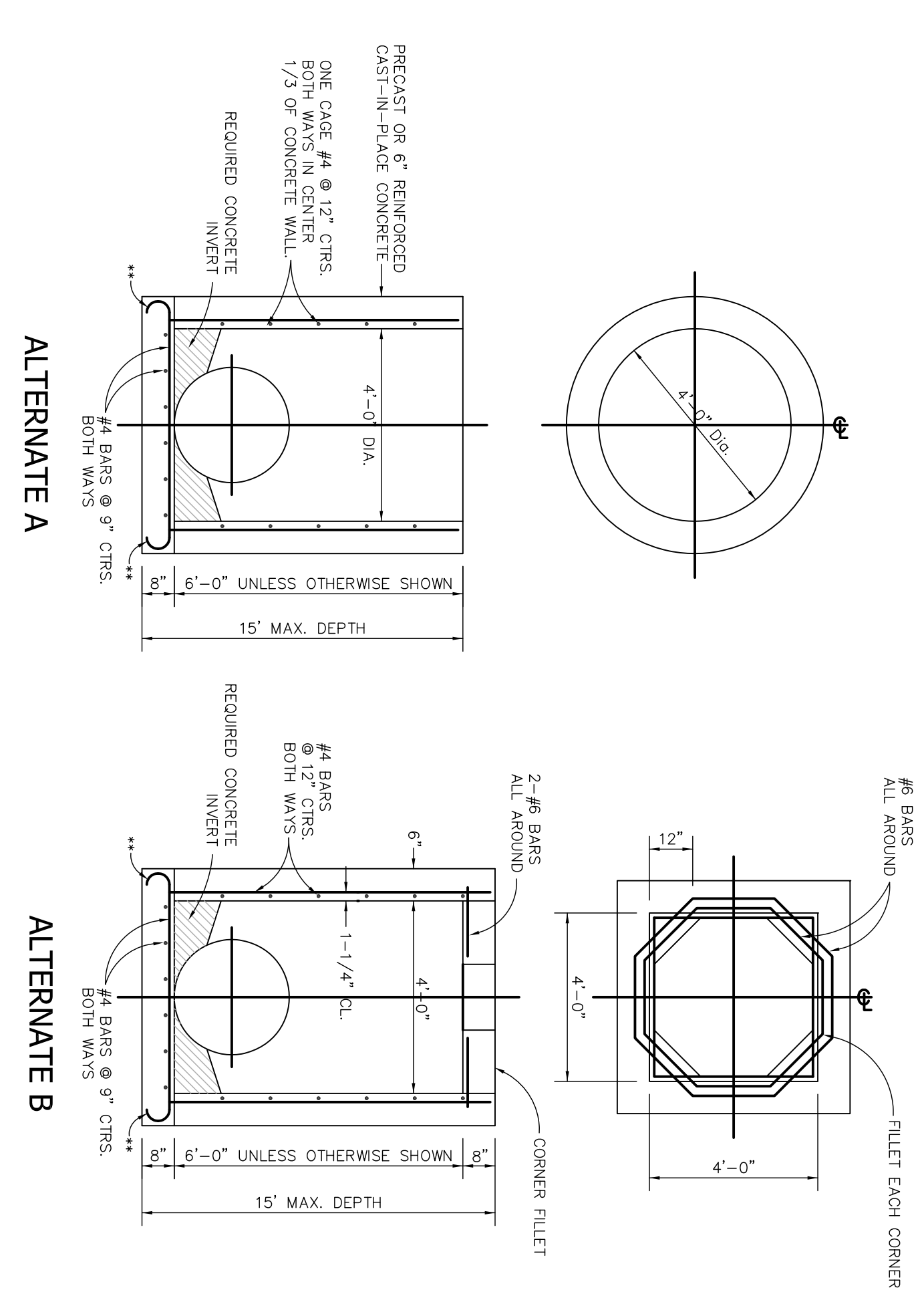
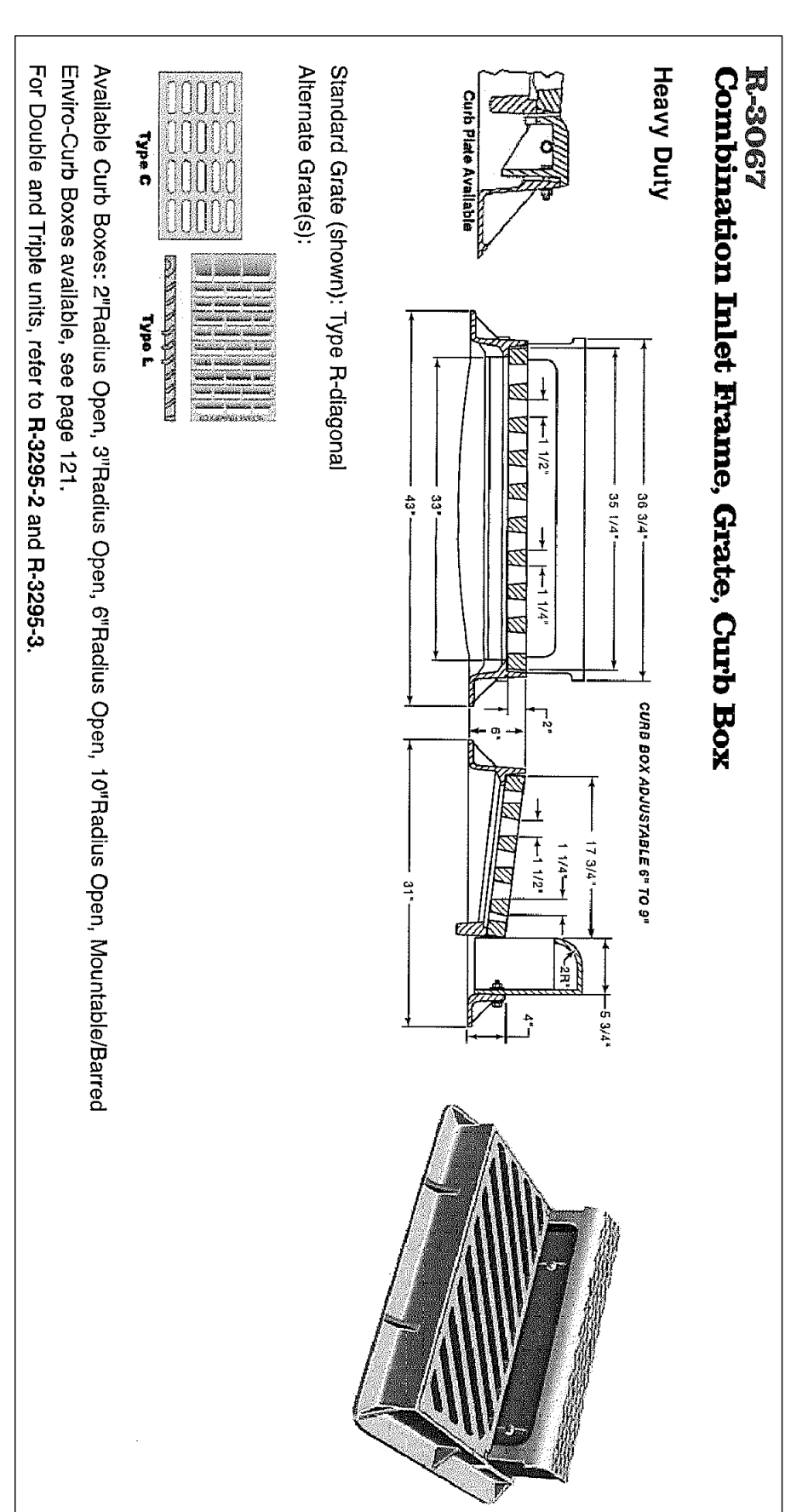
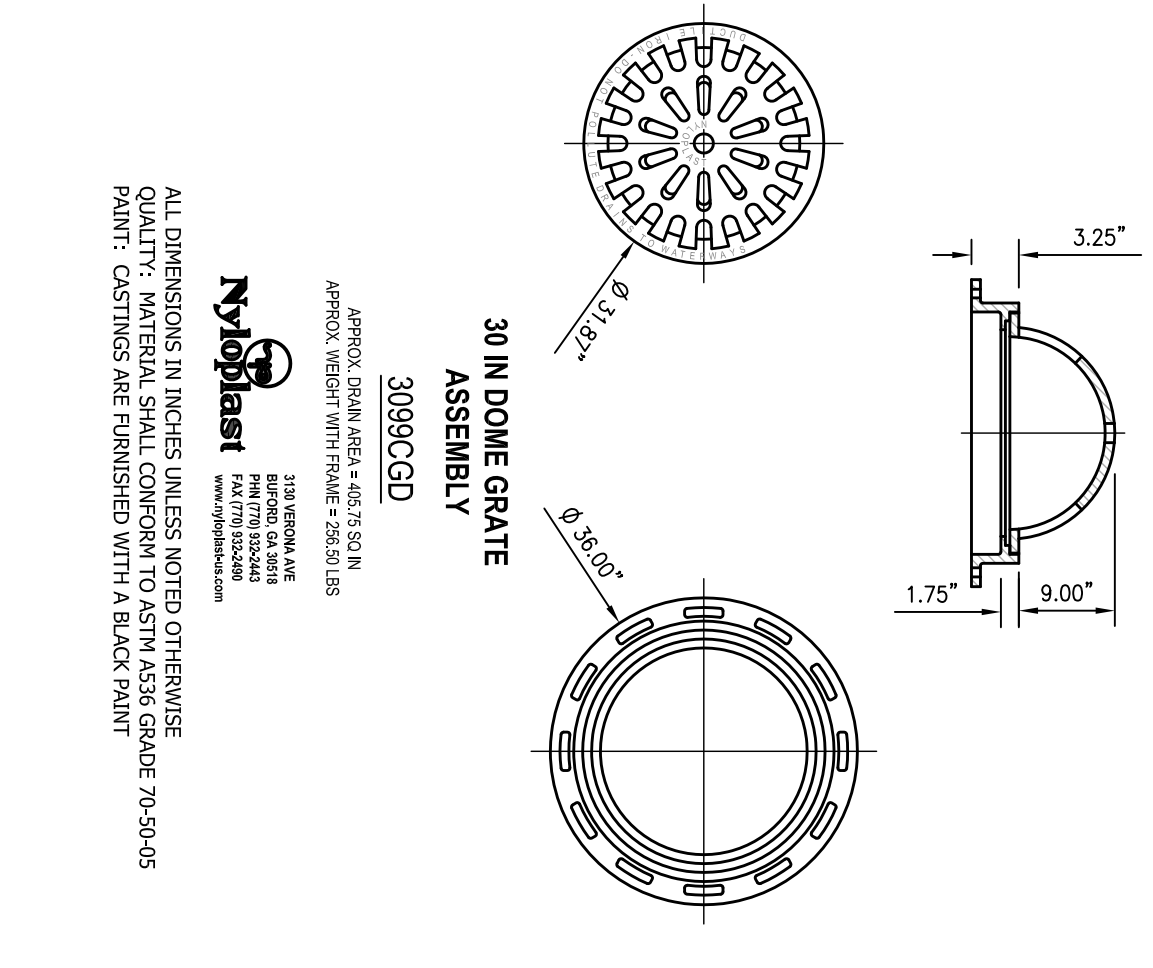
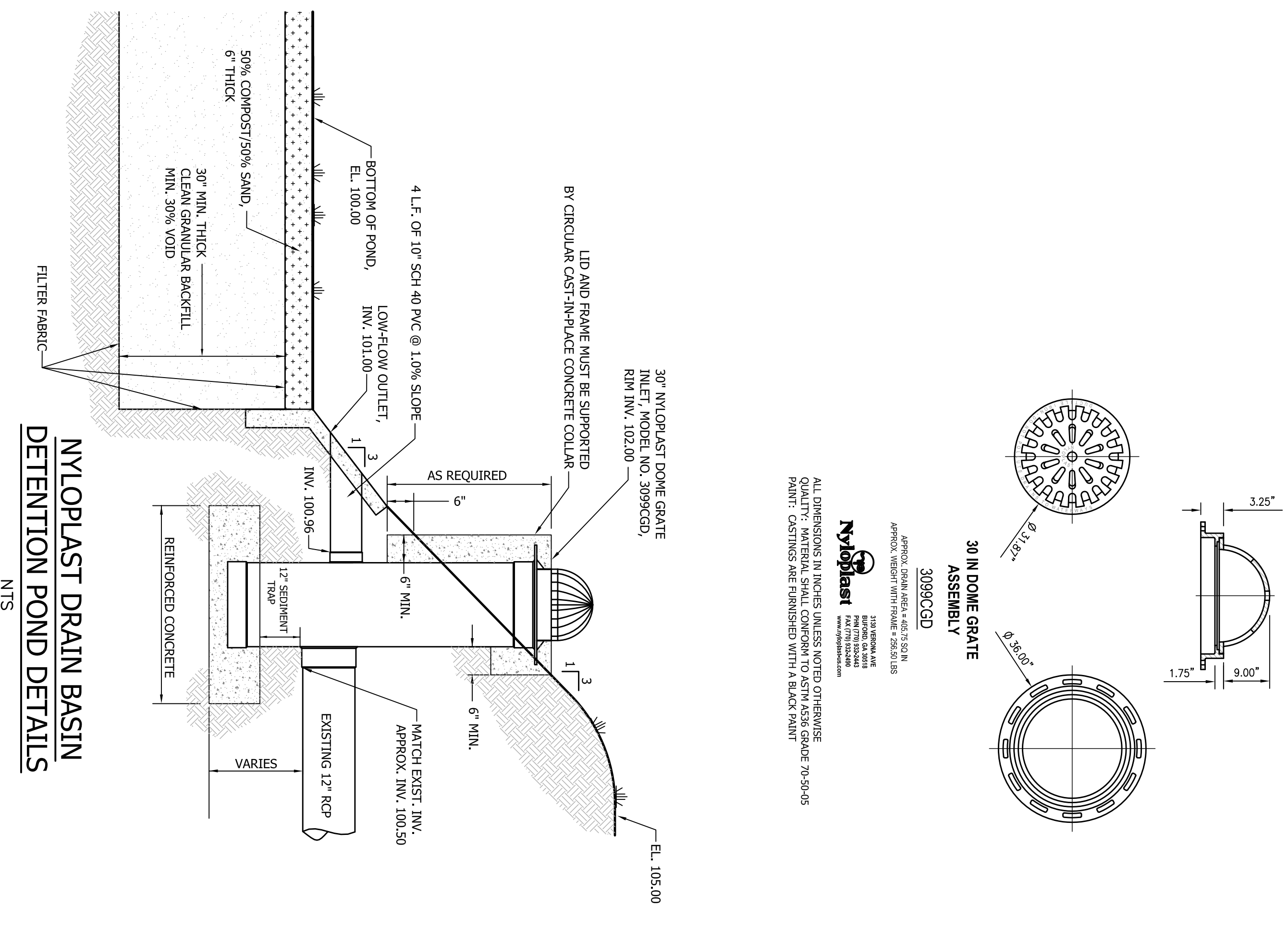
NO.	REVISION	DATE	APPR.

JOB NO.: 118930
SCALE: N.T.S.
DWG: VOL PARK CDTL
DATE: MARCH, 2012
DRAWN: JMC
CHECKED BY: JMC
SHEET 3 OF 14

CIVIL CONSTRUCTION DETAILS
VOLANTA PARK, FAIRHOPE ALABAMA
CITY OF FAIRHOPE

Jinright & Associates Development Engineers
208 Grecco Road South Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
251.928.3443(ed) 251.928.3665(tax)
jadengineers.com

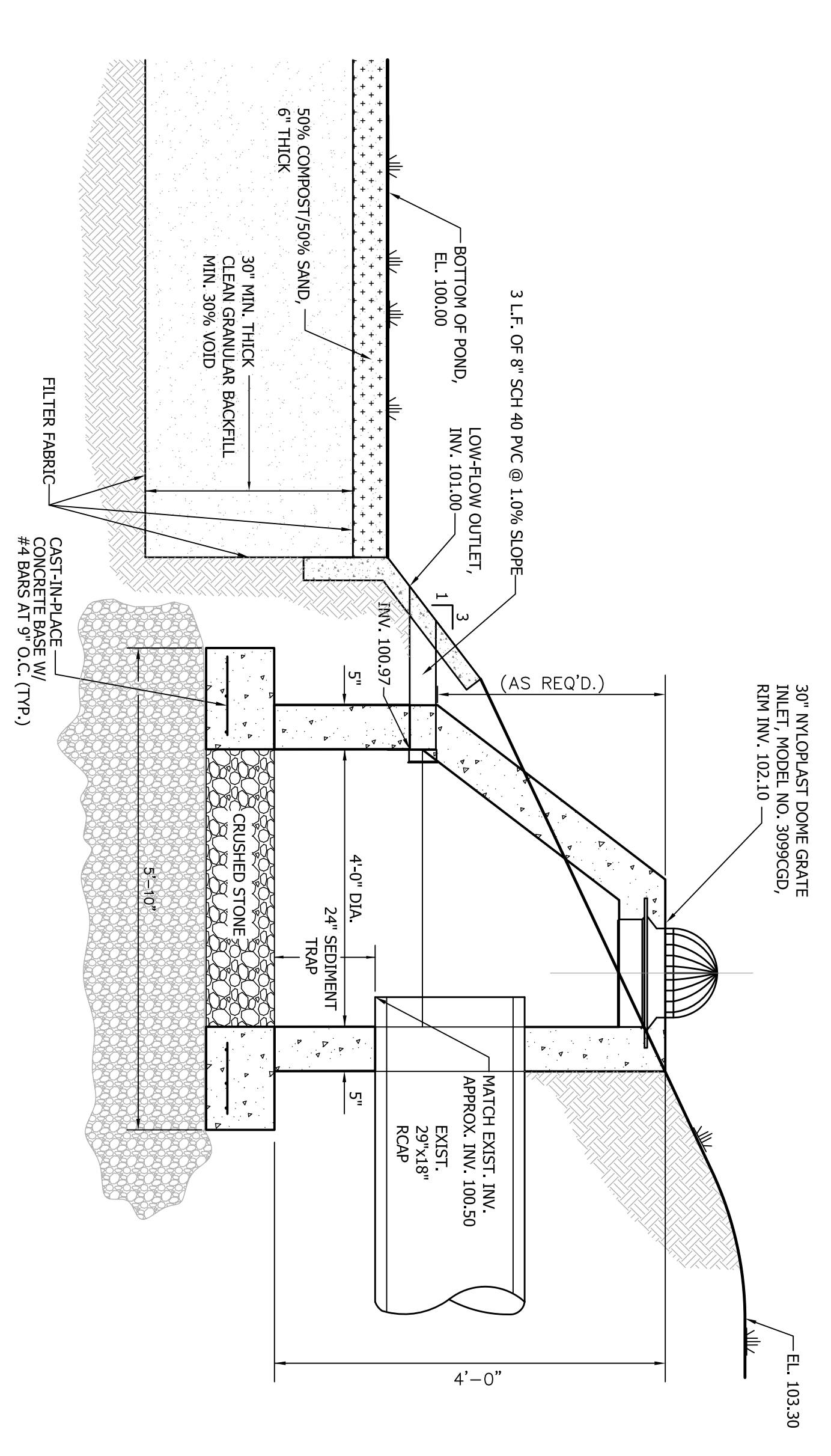
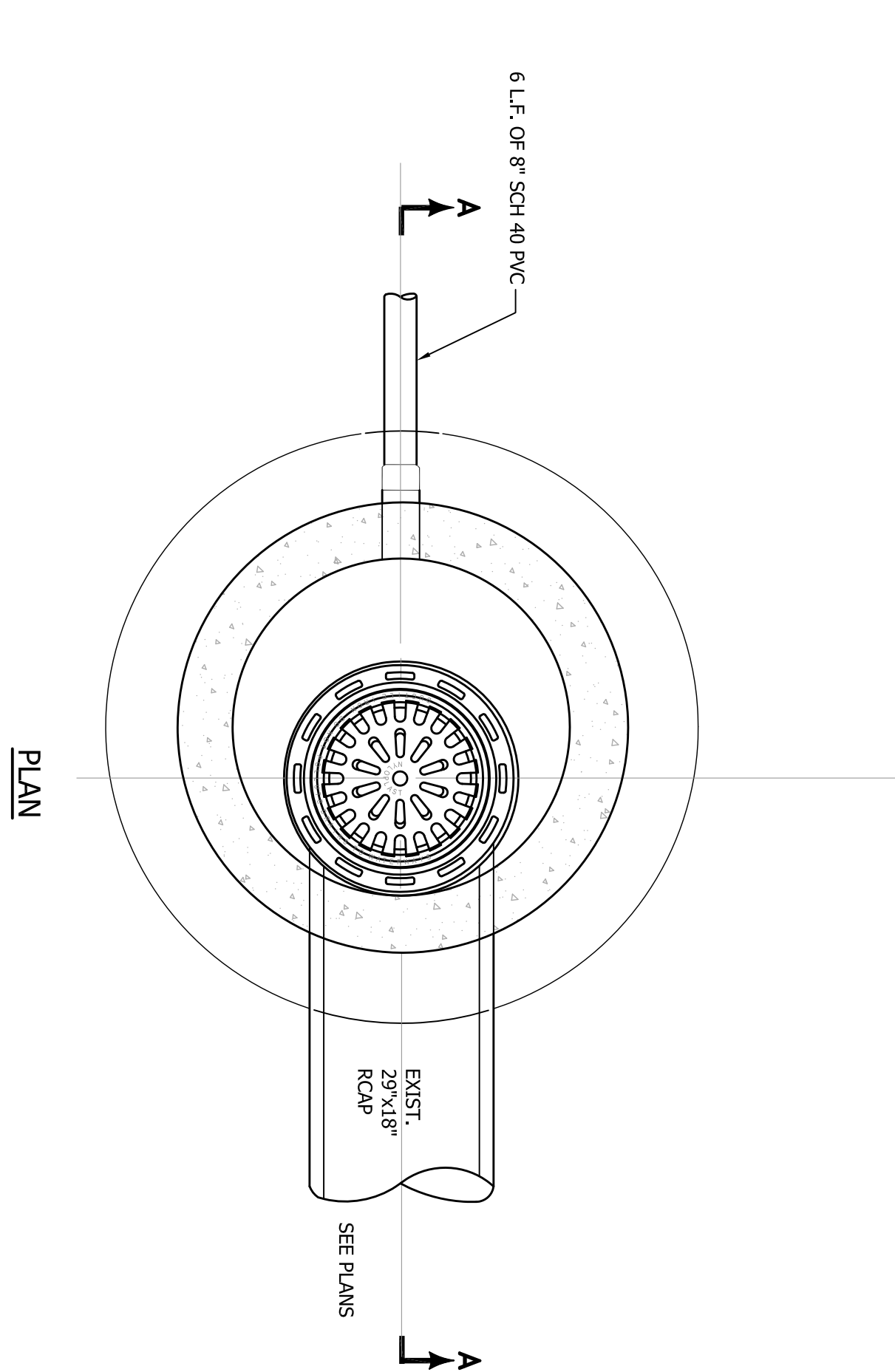




TOP AND FLOOR SLAB TABLE - TYPE J

ALT. #	MAX. WIDTH	MIN. THICKNESS OVER TOP SLAB	MIN. THICKNESS OVER FLOOR SLAB
1	2'-0"	8"	8"
2	2'-0"	10"	10"
3	2'-0"	12"	12"
4	2'-0"	14"	14"
5	2'-0"	16"	16"
6	2'-0"	18"	18"
7	2'-0"	20"	20"
8	2'-0"	22"	22"
9	2'-0"	24"	24"
10	2'-0"	26"	26"
11	2'-0"	28"	28"
12	2'-0"	30"	30"
13	2'-0"	32"	32"
14	2'-0"	34"	34"
15	2'-0"	36"	36"

SEE SLAB TABLE FOR STRAIGHT END OF STANDARD HOOPS. IN ACCORDANCE WITH DETAILS INDEX NO. 201, SH. 3 OF 5.



NOTE: MANHOLE STEPS SHALL BE STEEL BARS ENCASED IN POLYPROPYLENE PLASTIC AND SHALL BE TYPE 'P21-PF' AS MANUFACTURED BY M.A. INDUSTRIES, INC., OR AN APPROVED EQUAL.

JOB NO.	118930
SCALE	NTS
DATE	MARCH, 2012
DRAWN BY	JMC
CHECKED BY	

NO.	REVISION	DATE	APPR.

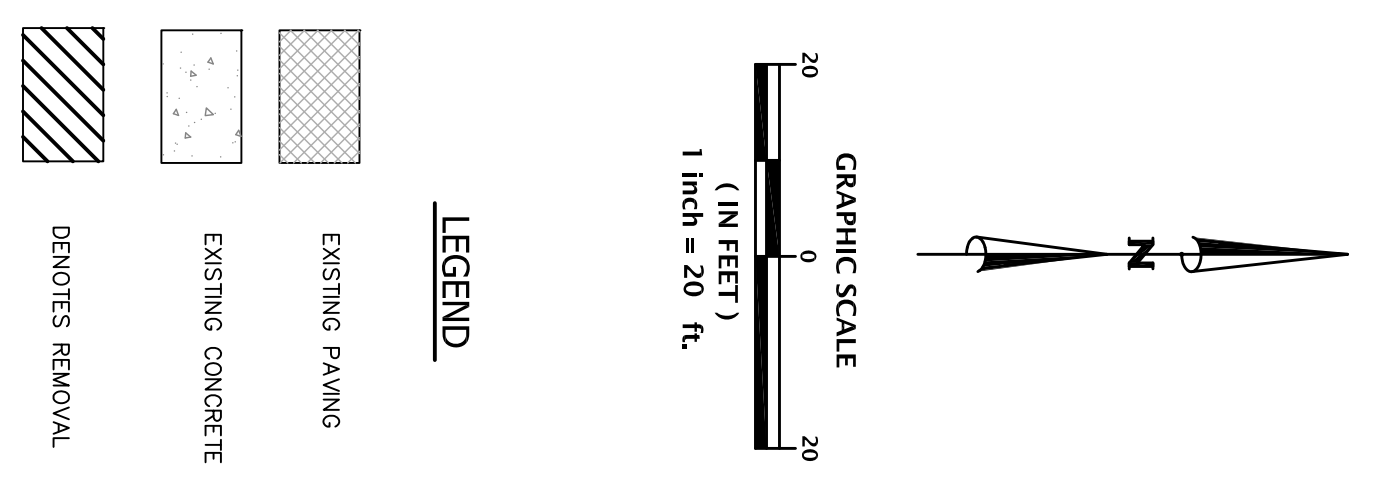
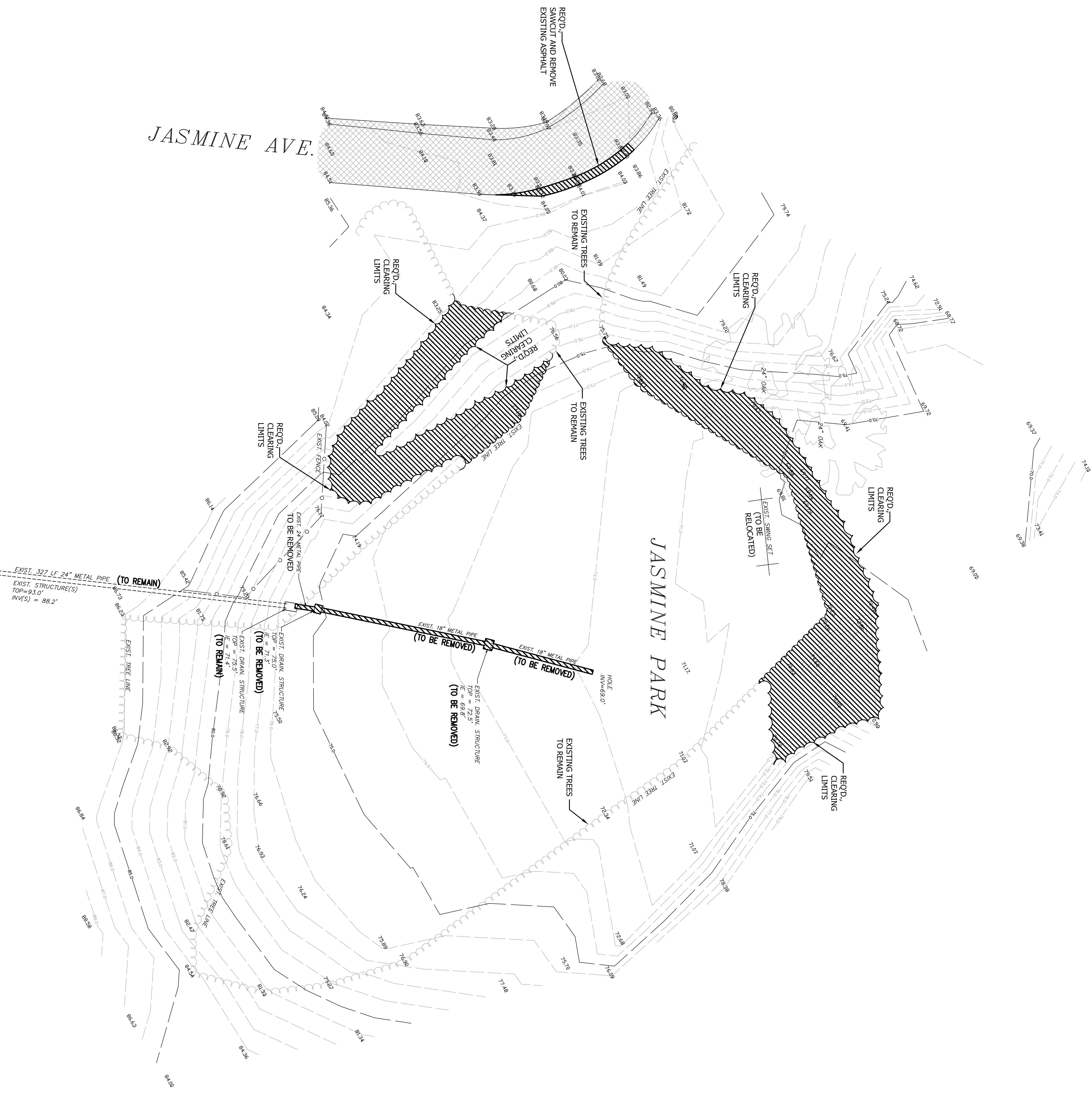
CIVIL CONSTRUCTION DETAILS (2)
VOLANTA PARK, FAIRHOPE ALABAMA
CITY OF FAIRHOPE

Jinright & Associates Development Engineers
208 Greco Road South Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
251.928.3443(tel) 251.928.3665(fax)
jadengineers.com



JASMINE AVE.

JASMINE PARK



GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

LEGEND

SURVEY PROVIDED BY:

SURVEY SERVICES
LAWRENCE H. ZANDLER, PLS
PO BOX 970
MAGNOLIA SPRINGS, ALABAMA 36555
9500-A Sherman Rd., Foley, AL 36533
PH: (251) 971-2986
FAX: (251) 971-2987

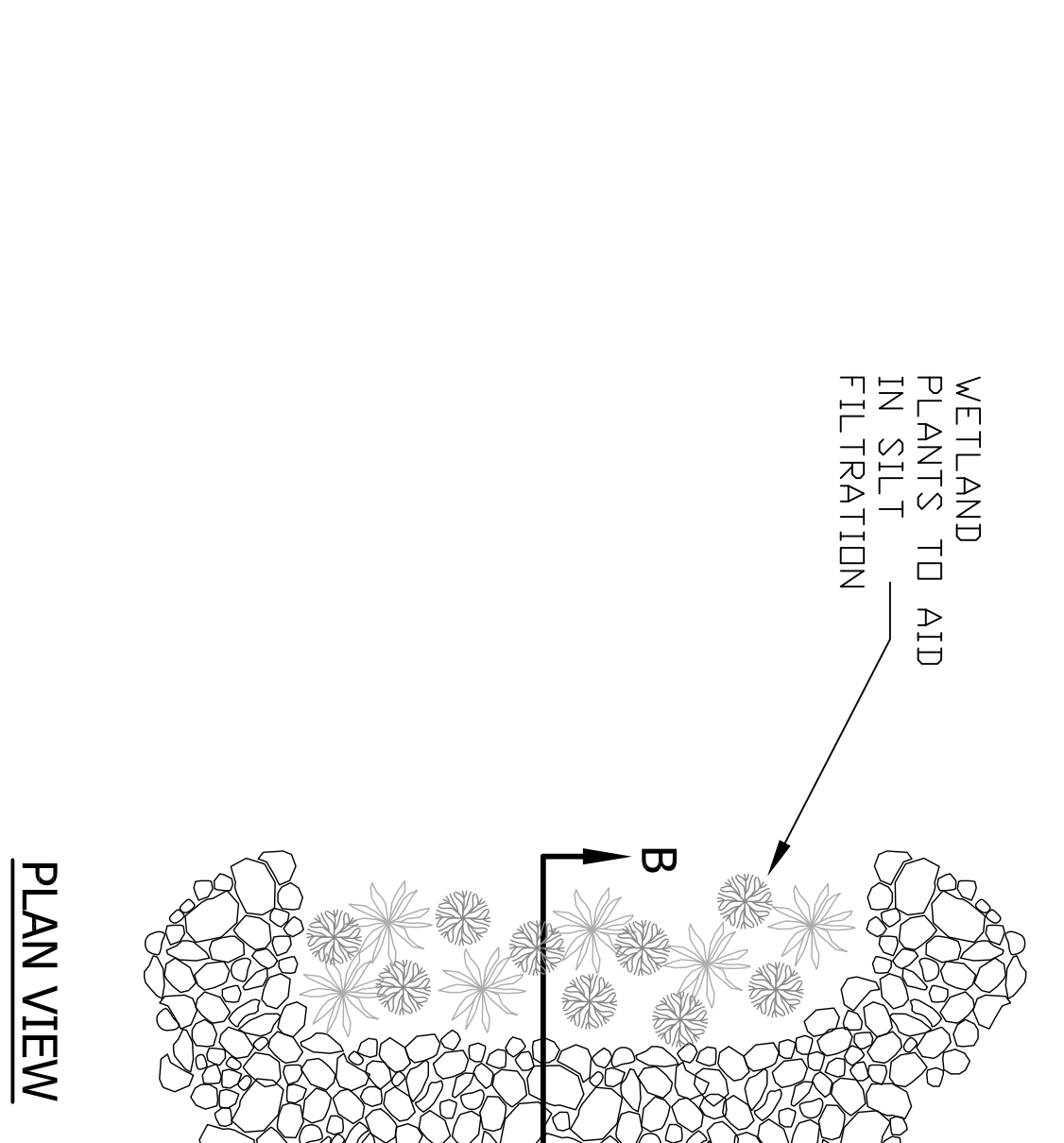
EXISTING CONDITIONS AND DEMOLITION PLAN
JASMINE PARK, FAIRHOPE ALABAMA
CITY OF FAIRHOPE

Jinright & Associates Development Engineers
208 Greco Road South Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
251.928.3443(tel) 251.928.3665(fax)
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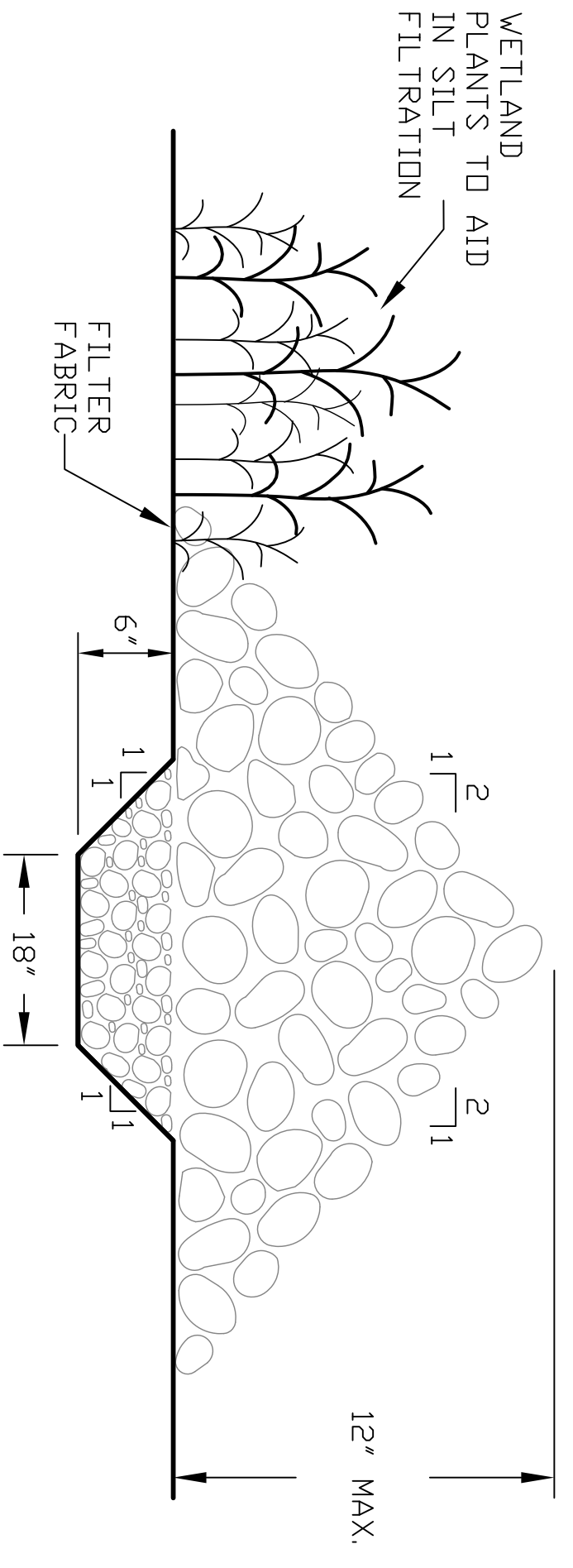


NO.	REVISION	DATE	APPR.

JOB NO. 118820
SCALE: 1" = 20'
DWG: JAS PARK DEMO
DATE: MARCH, 2012
DRAWN BY: JMC
CHECKED BY:
SHEET 5 OF 14



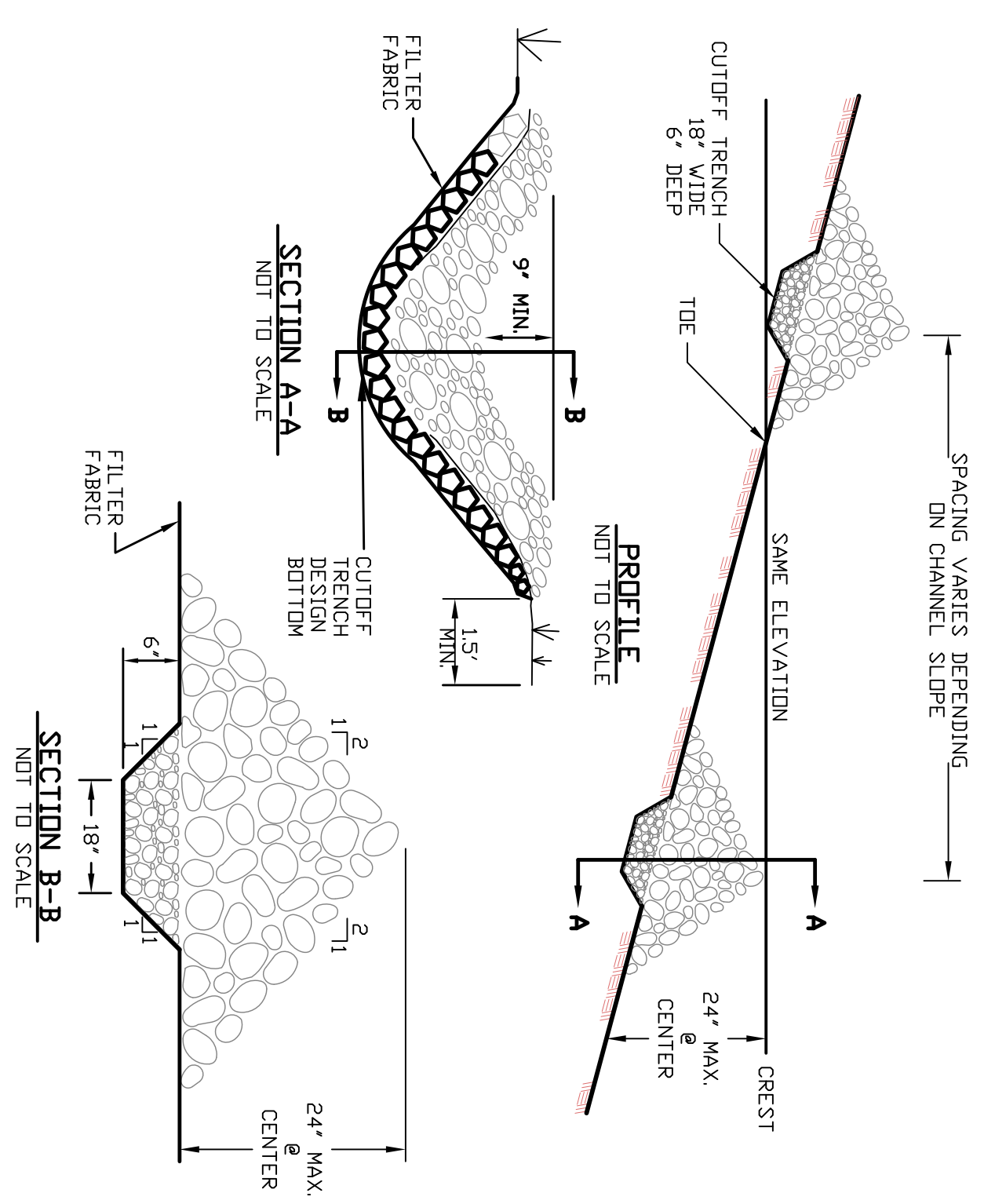
PLAN VIEW
NTS



SECTION B-B
NTS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. EXTEND THE STONE A MINIMUM OF 15 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.

STONE CHECK DAM/FOREBAY DETAIL
NTS

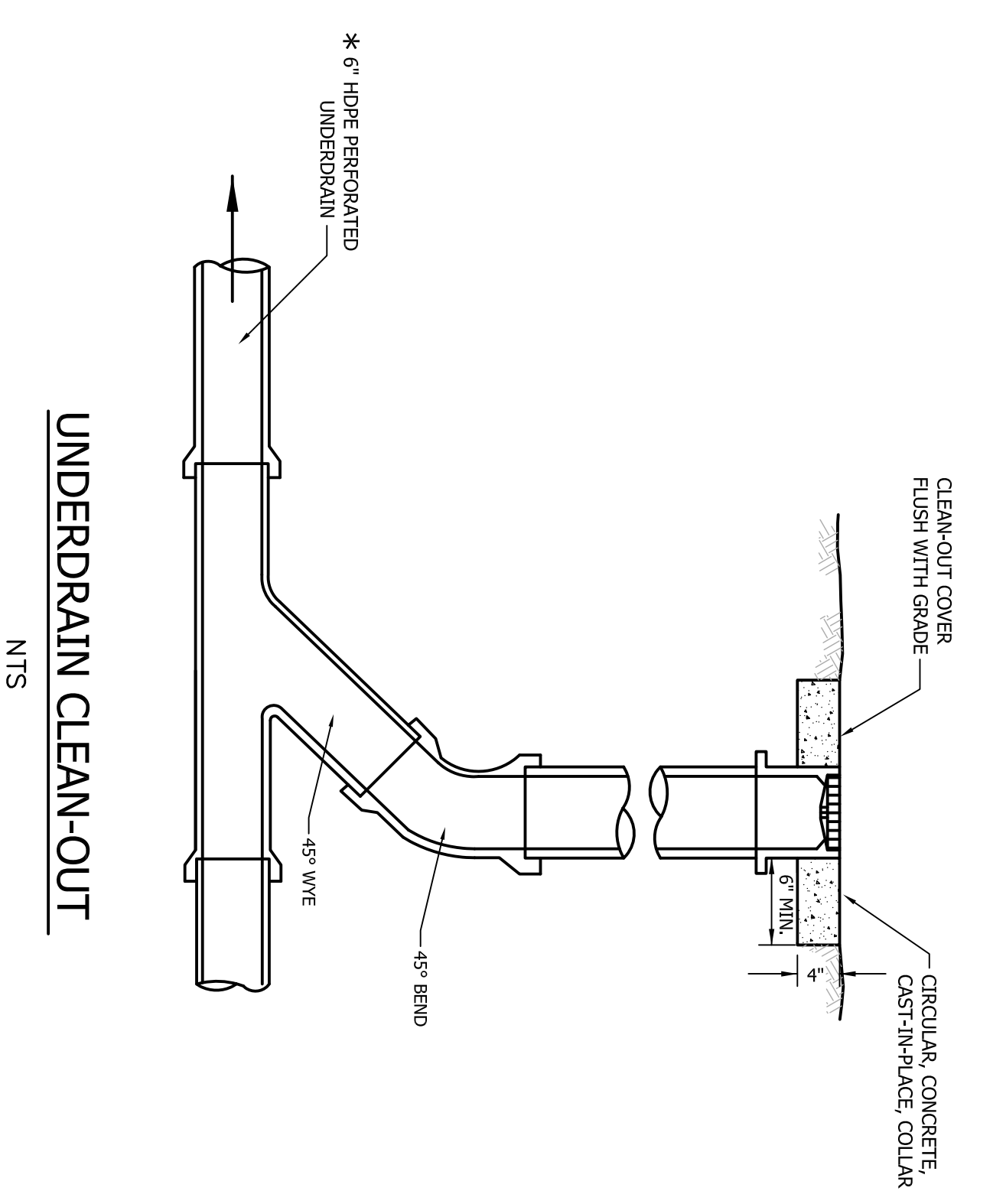


SECTION A-A
NOT TO SCALE

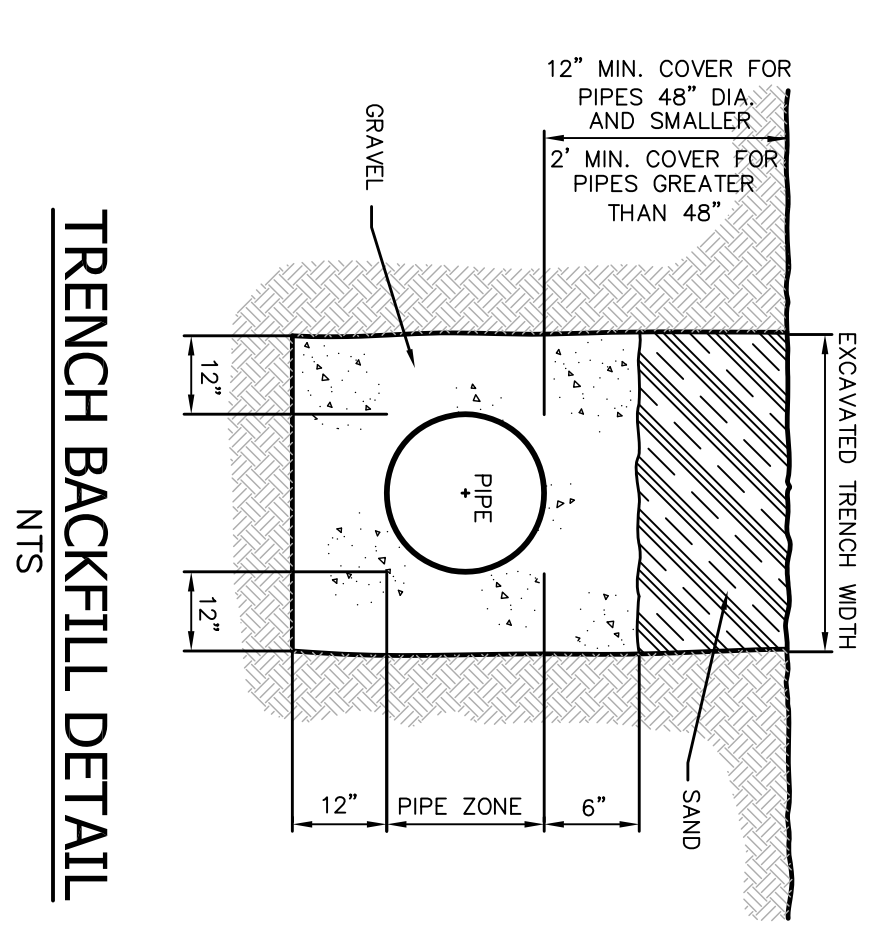
SECTION B-B
NOT TO SCALE

- CONSTRUCTION SPECIFICATIONS**
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES GRADES AND LOCATIONS SHOWN IN THE PLAN.
 2. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
 3. EXTEND THE STONE A MINIMUM OF 15 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LATEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW GREN DAMS ARE NOT SUBJECT TO DAMAGE OR DISRUPTION FROM BACKWATER STAINS.

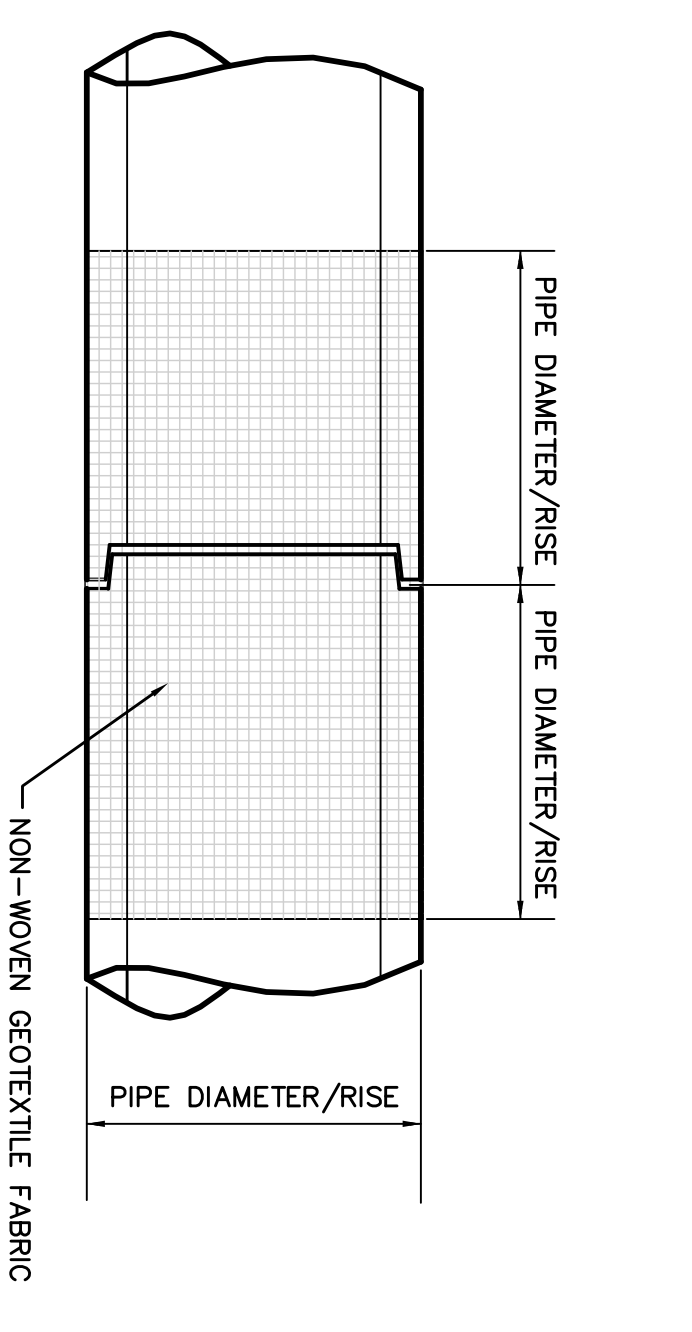
RIP-RAP WEIR DETAIL
NTS



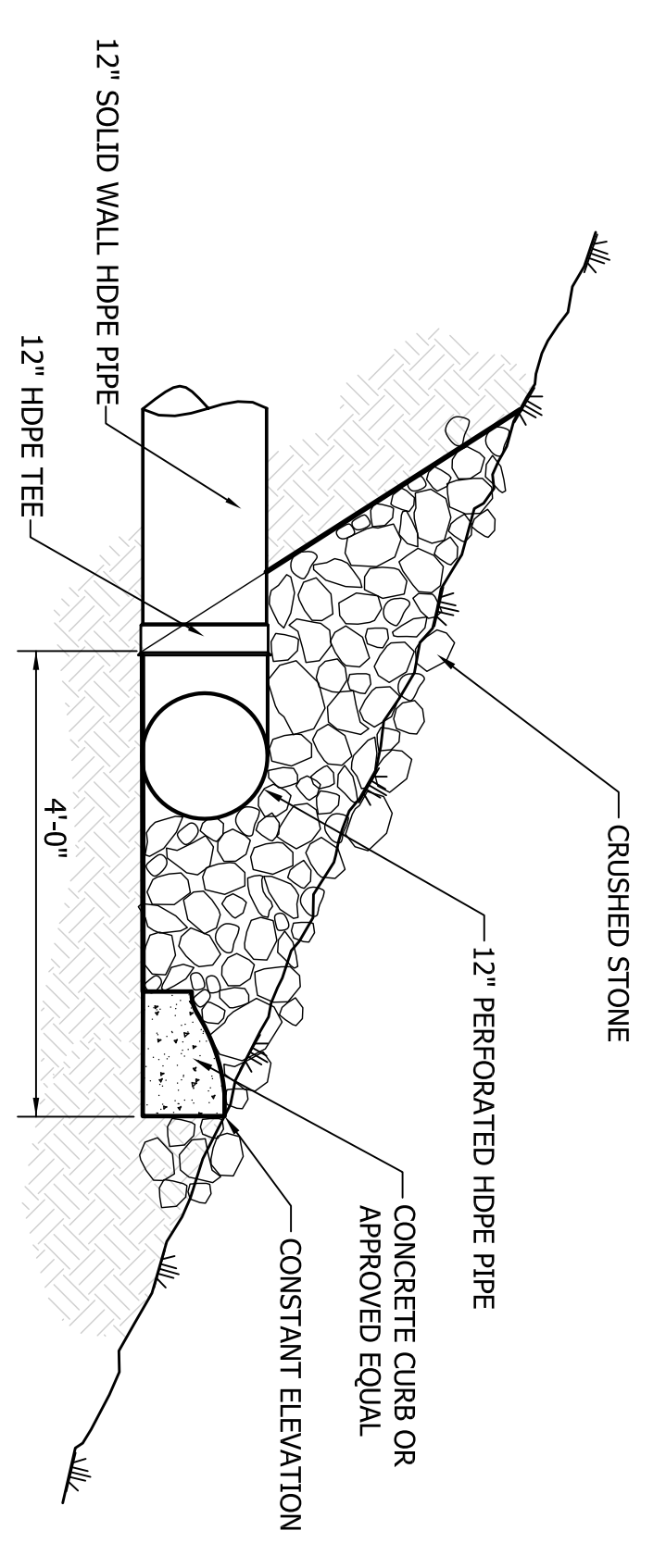
UNDERDRAIN CLEAN-OUT
NTS



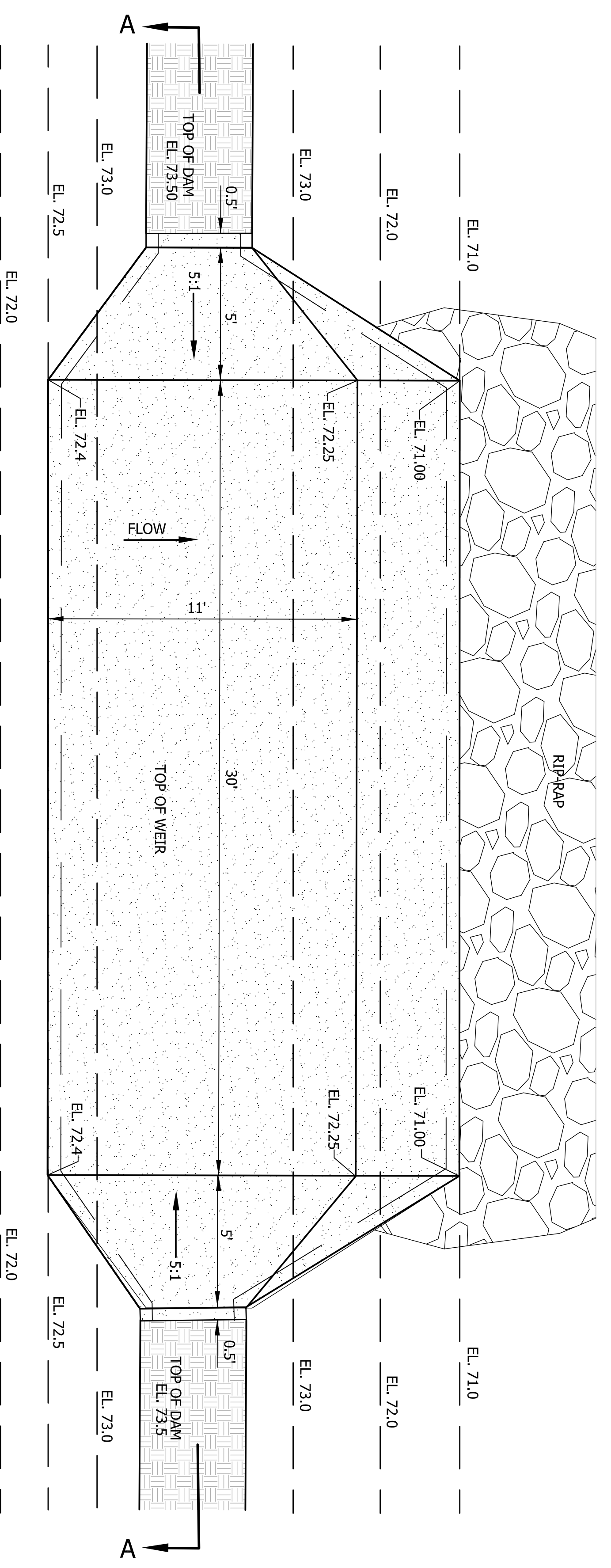
TRENCH BACKFILL DETAIL
NTS



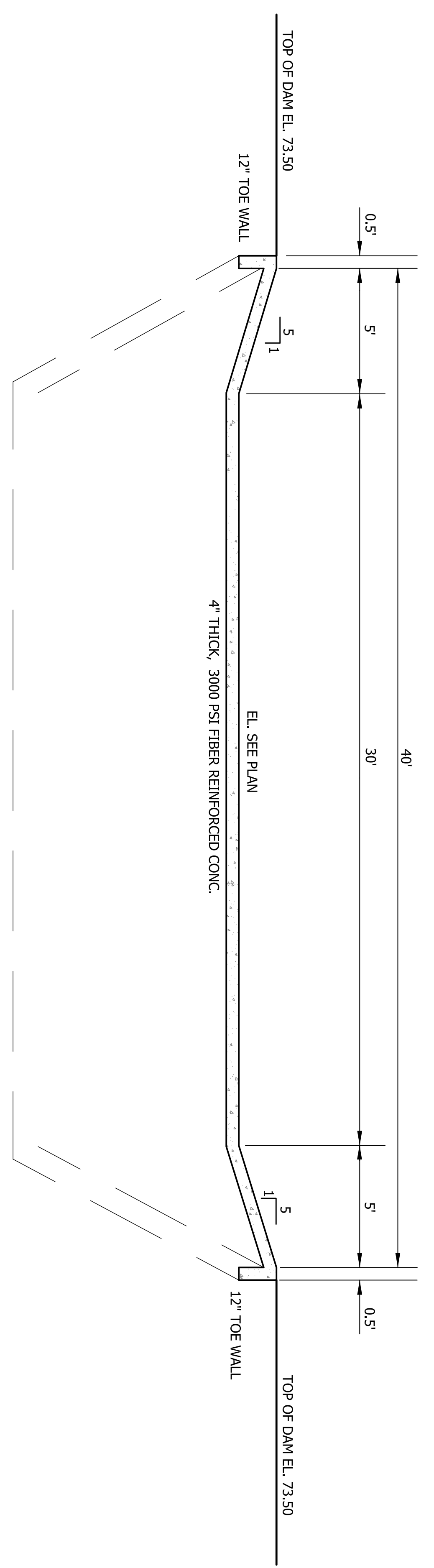
WRAPPED PIPE JOINT DETAIL
NTS



LEVEL SPREADER DETAIL
NTS



PLAN VIEW
NTS



SECTION A-A
NTS

POND TWO OUTFALL STRUCTURE DETAILS
NTS

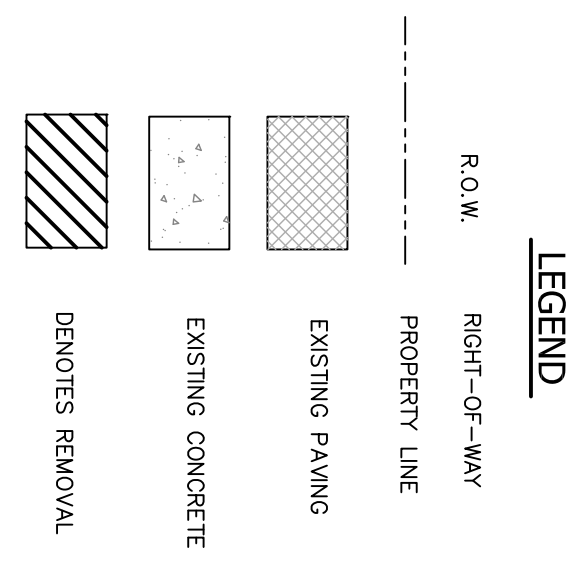
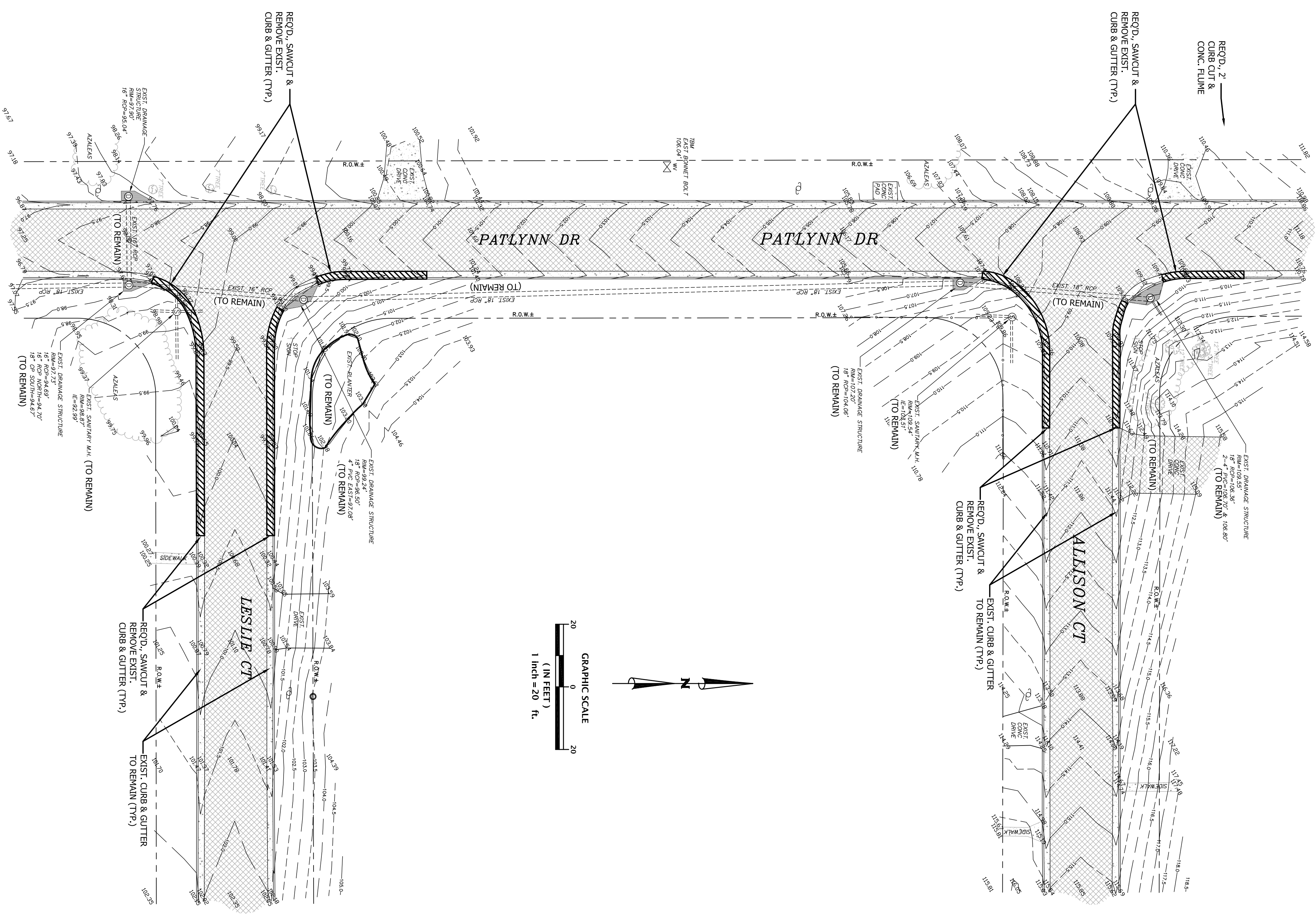
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SCALE	1" = 30'
DATE	MARCH, 2012
DRAWN BY	JMC
CHECKED BY	
SHEET	8 OF 14

NO.	REVISION	DATE	APPR.

CIVIL CONSTRUCTION DETAILS (2)
JASMINE PARK, FAIRHOPE ALABAMA
CITY OF FAIRHOPE

Jinright & Associates Development Engineers
208 Greco Road South Fairhope, Alabama 36532
P.O. Box 1829 Fairhope, Alabama 36533
251.928.3443 (tel) 251.928.3665 (fax)
jadengineers.com





EXISTING CONDITIONS AND DEMOLITION PLAN
PATLYNN DRIVE, FAIRHOPE ALABAMA
CITY OF FAIRHOPE

Jinright & Associates Development Engineers
 208 Greco Road South Fairhope, Alabama 36532
 P.O. Box 1929 Fairhope, Alabama 36533
 251.928.3443 (tel) 251.928.3665 (fax)
 jadengineers.com

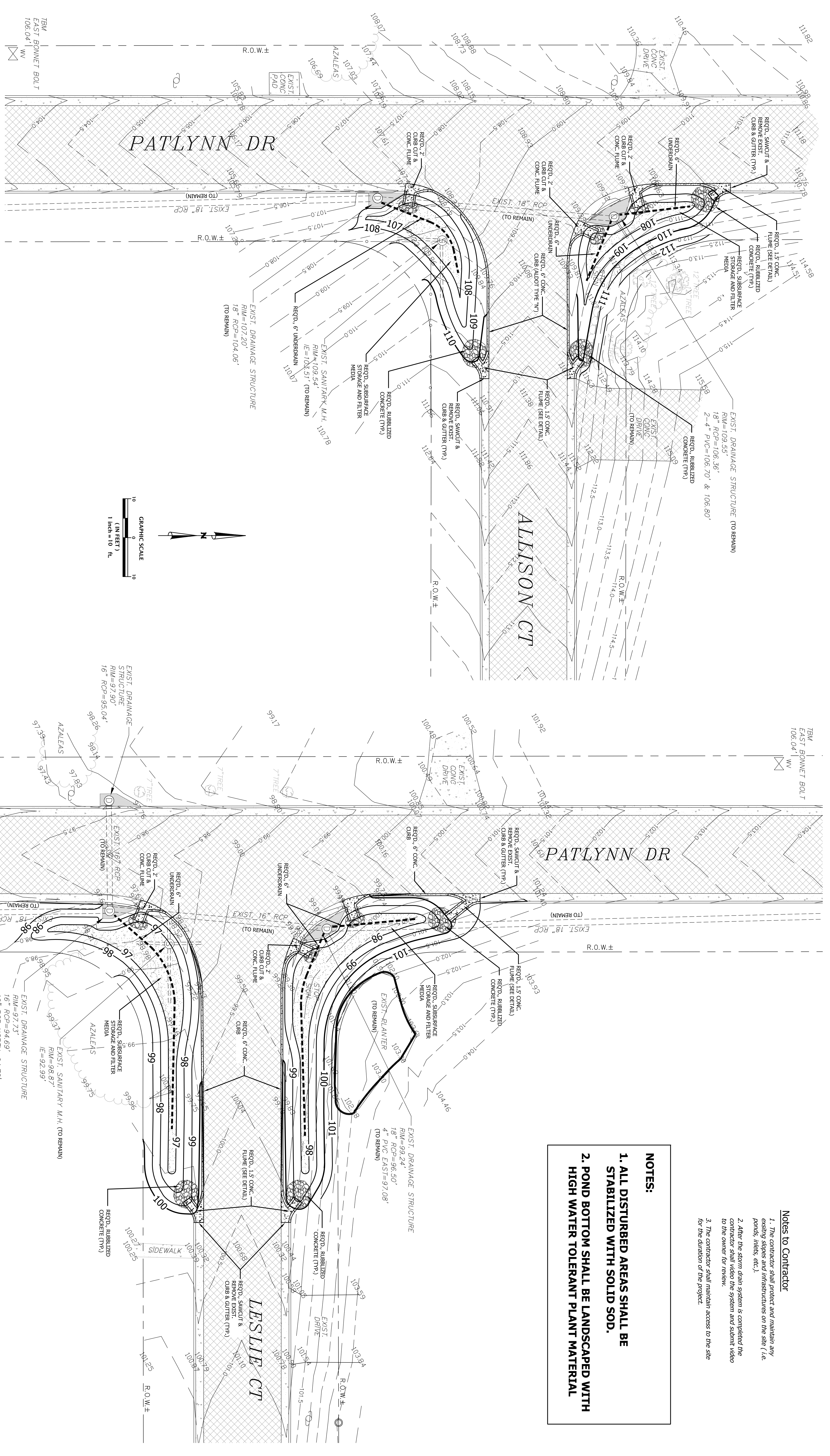


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 PO BOX 970
 MAGNOLIA SPRINGS, ALABAMA 36555
 9590-A Sherman Rd., Foley, AL 36533
 PH: (251) 971-2986
 FAX: (251) 971-2987

JOB NO.:	118820
SCALE:	1" = 20'
DWG:	PATL DR DEMO
DATE:	MARCH, 2012
DRAWN BY:	JMC
CHECKED BY:	
SHEET:	9 OF 14

NO.	REVISION	DATE	APPR.



NOTES:

1. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SOLID SOD.
2. POND BOTTOM SHALL BE LANDSCAPED WITH HIGH WATER TOLERANT PLANT MATERIAL

Notes to Contractor

1. The contractor shall protect and maintain any existing slopes and infrastructures on the site (i.e. ponds, inlets, etc.).
2. After the storm drain system is completed the contractor shall video the system and submit video to the owner for review.
3. The contractor shall maintain access to the site for the duration of the project.

LEGEND

- RIGHT-OF-WAY
- PROPERTY LINE
- EXISTING PAVING
- EXISTING CONCRETE
- PROPOSED RUBBERIZED CONCRETE
- PROPOSED SUBSURFACE STORAGE & FILTER MEDIA

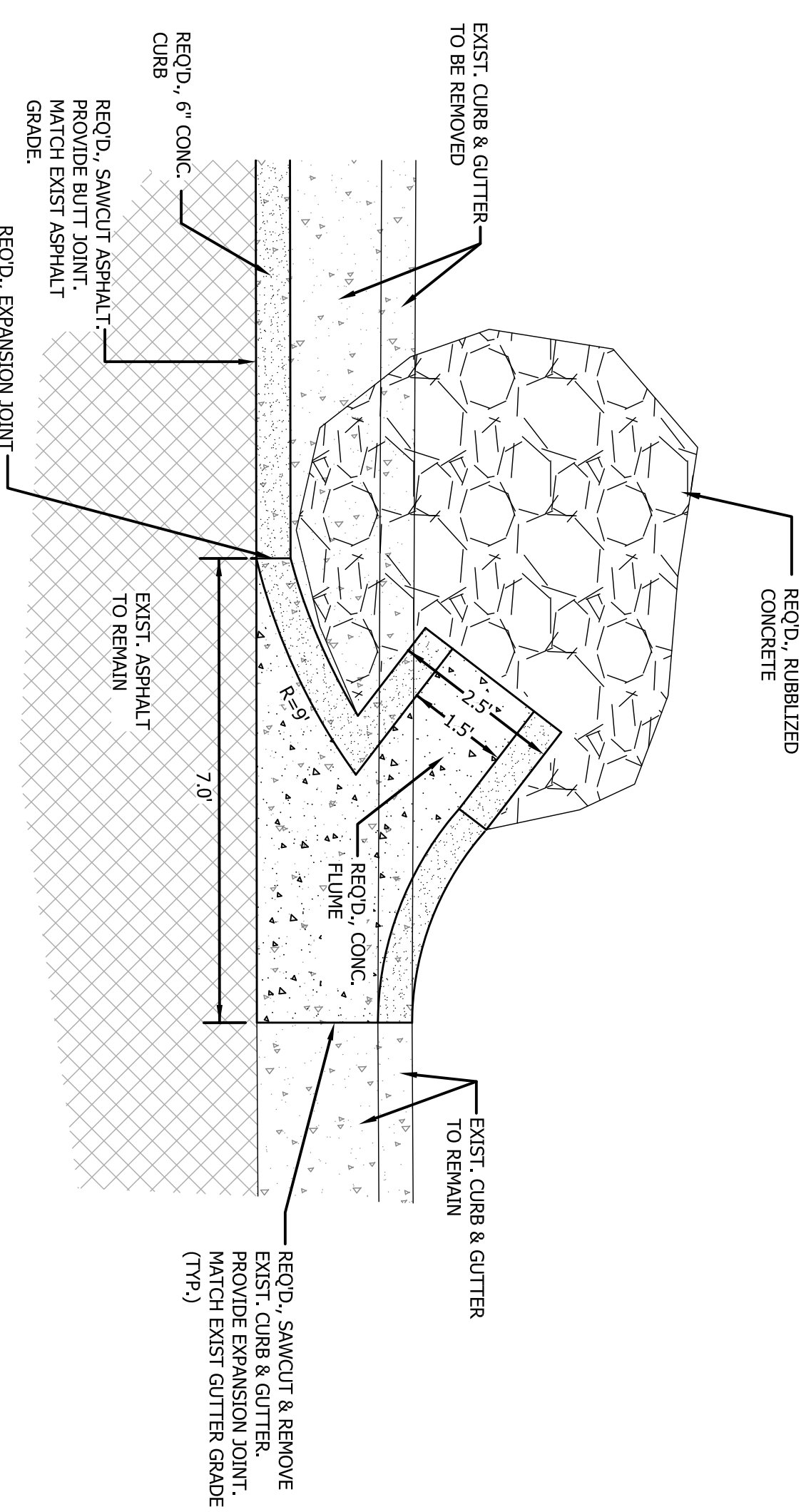
NO.	REVISION	DATE	APPR.

JOB NO. 118830
 SCALE: 1" = 10'
 DWG: PATLYNN DR SITE
 DATE: MARCH, 2012
 DRAWN BY: JMC
 CHECKED BY: JMC
 SHEET 10 OF 14

GRADING & DRAINAGE PLAN
 PATLYNN DRIVE, FAIRHOPE ALABAMA
 CITY OF FAIRHOPE

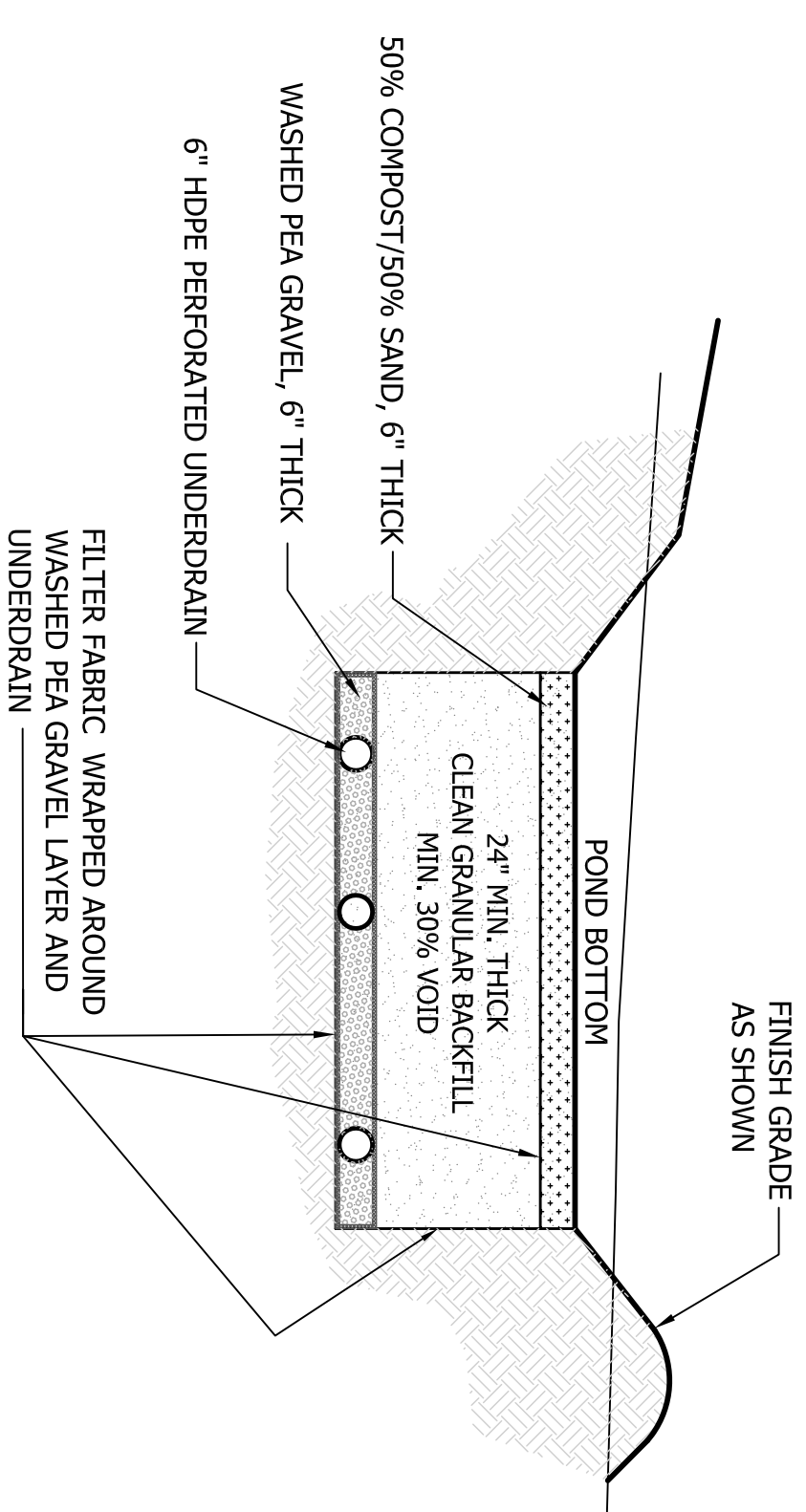
Jinright & Associates Development Engineers
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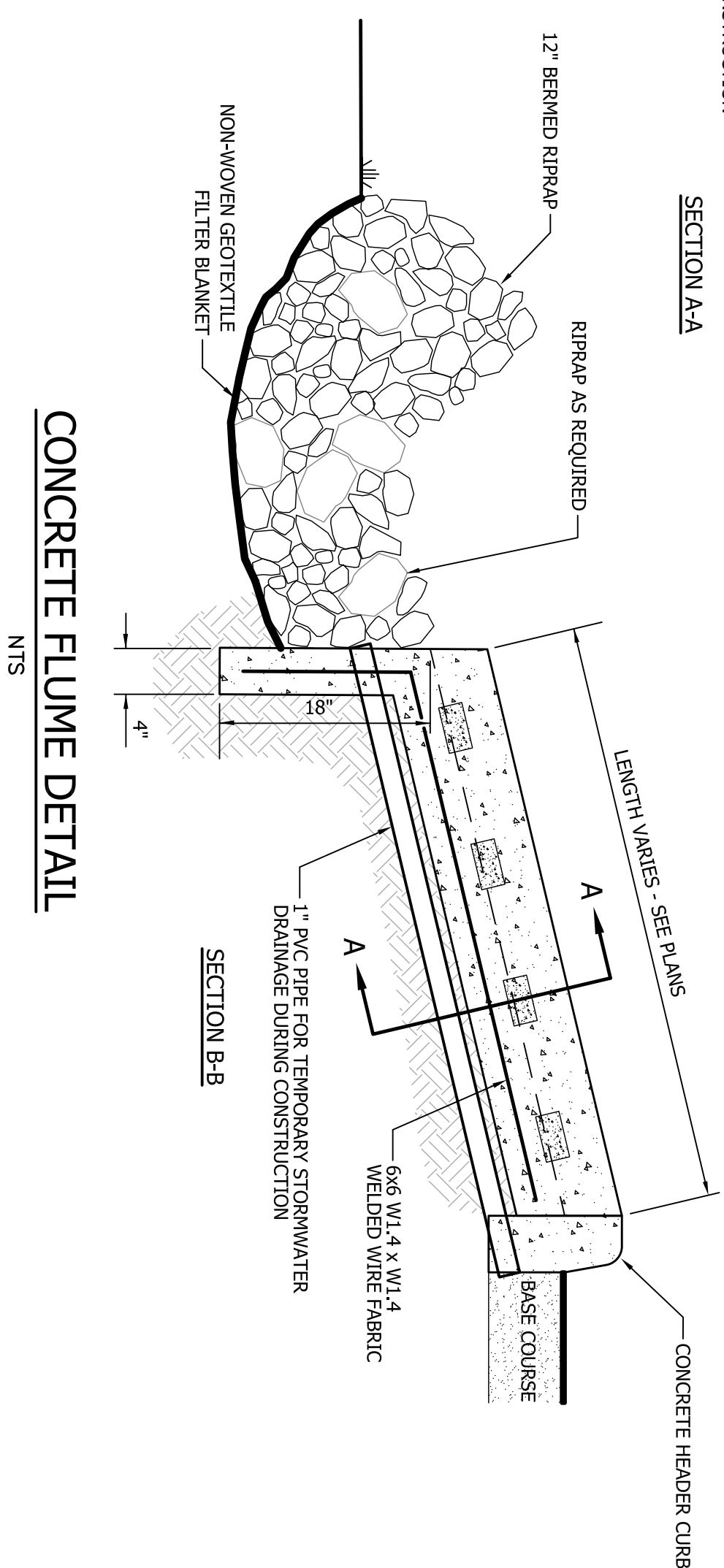
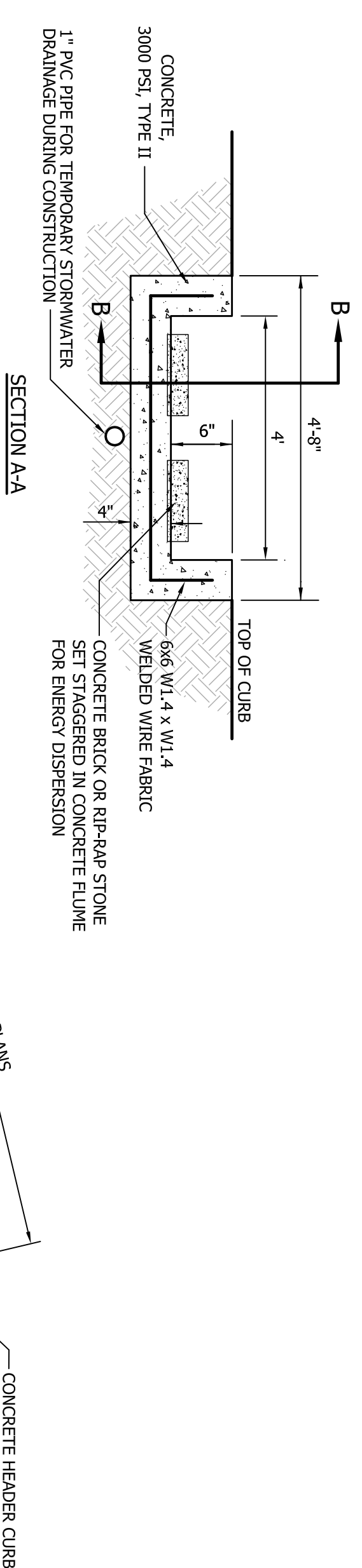
CONCRETE FLUME & CURB TRANSITION DETAIL

NTS



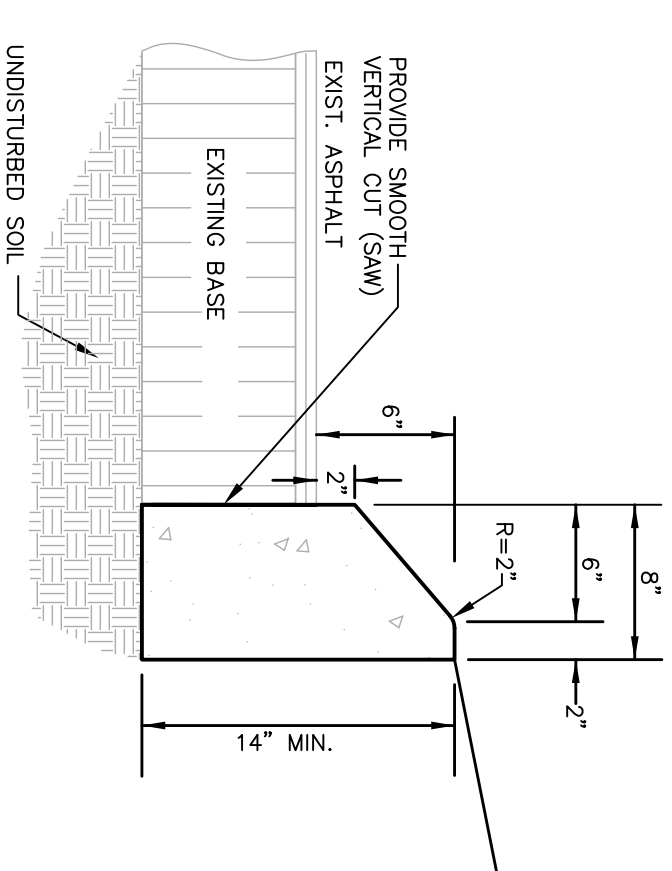
SUBSURFACE STORAGE AND FILTER MEDIA SECTION

NTS



CONCRETE FLUME DETAIL

NTS



**ALDOT TYPE "N" CONCRETE CURB
(OR APPROVED EQUAL)**

NTS

- NOTES:
1. CURB TO BE PLACED BY SLIP FORM METHOD OR APPROVED EQUAL.
 2. TRAFFIC JOINTS TO BE PLACED IN CONCRETE AT 10' INTERVALS. CURB CONTRACTION JOINTS TO BE PLACED AT 10' INTERVALS AND EXPANSION JOINTS USE PENOLUXED EXPANSION JOINT FILLER CONFORMING TO ASTM D1751 OR D1752 (OR APPROVED EQUAL).

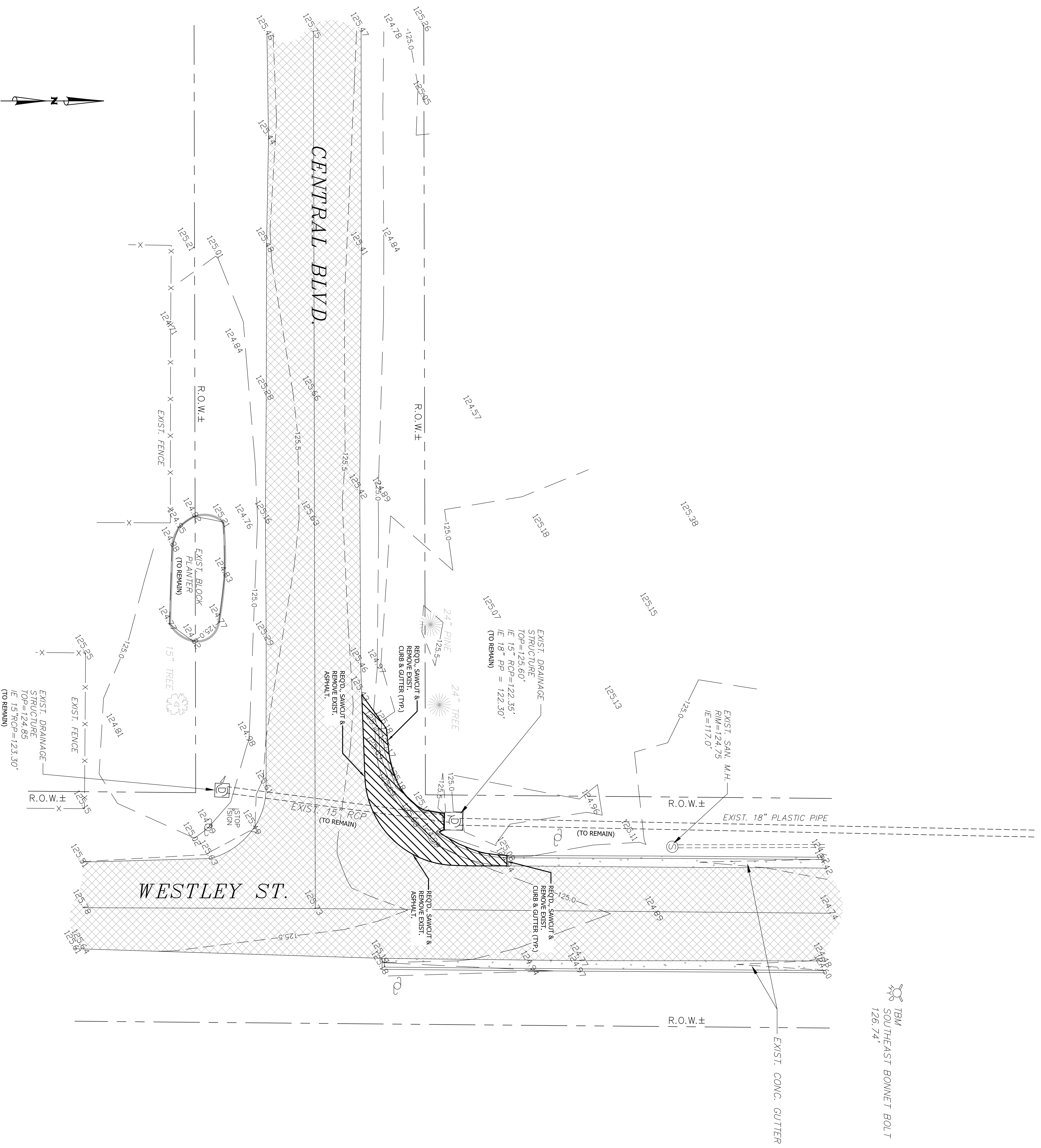
NO.	REVISION	DATE	APPR.

CIVIL CONSTRUCTION DETAILS
PATLYNN DRIVE, FAIRHOPE ALABAMA
CITY OF FAIRHOPE

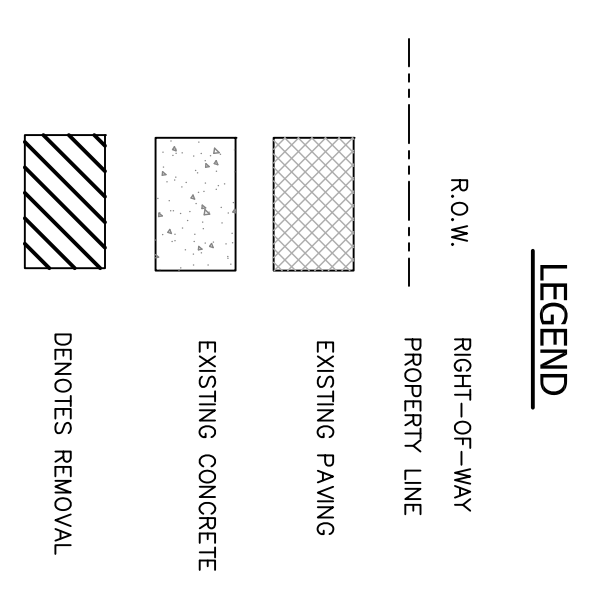
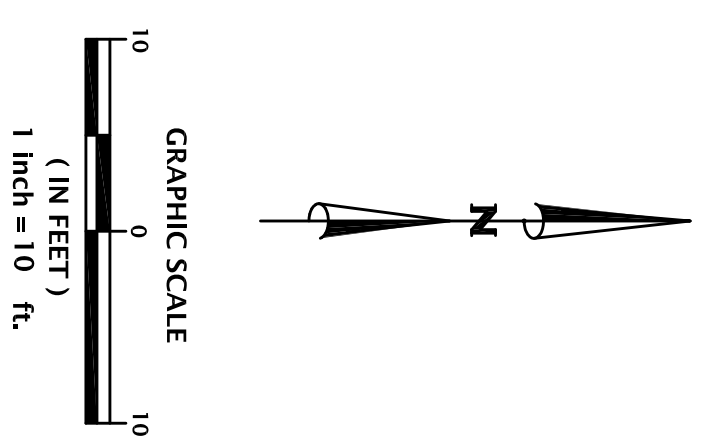
Jinright & Associates Development Engineers
208 Grecco Road South Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
251.928.3443 (tel) 251.928.3665 (fax)
jadengineers.com

JADE
CONSULTING, LLC

JOB NO.: 1189-20
SCALE: NONE
DWG: CIV DTLS
DATE: MARCH, 2012
DRAWN BY: JMC
CHECKED BY:
SHEET 11 OF 14



T&M
SOUTHEAST BONNET BOLT
126.74'



SURVEY PROVIDED BY:

SURVEY SERVICES
LAWRENCE H. ZANDER, PLS
PO BOX 970
MAGNOLIA SPRINGS, ALABAMA 36555
9530-A Sherman Rd., Foley, AL 36533
PH: (251) 971-2986
FAX: (251) 971-2987

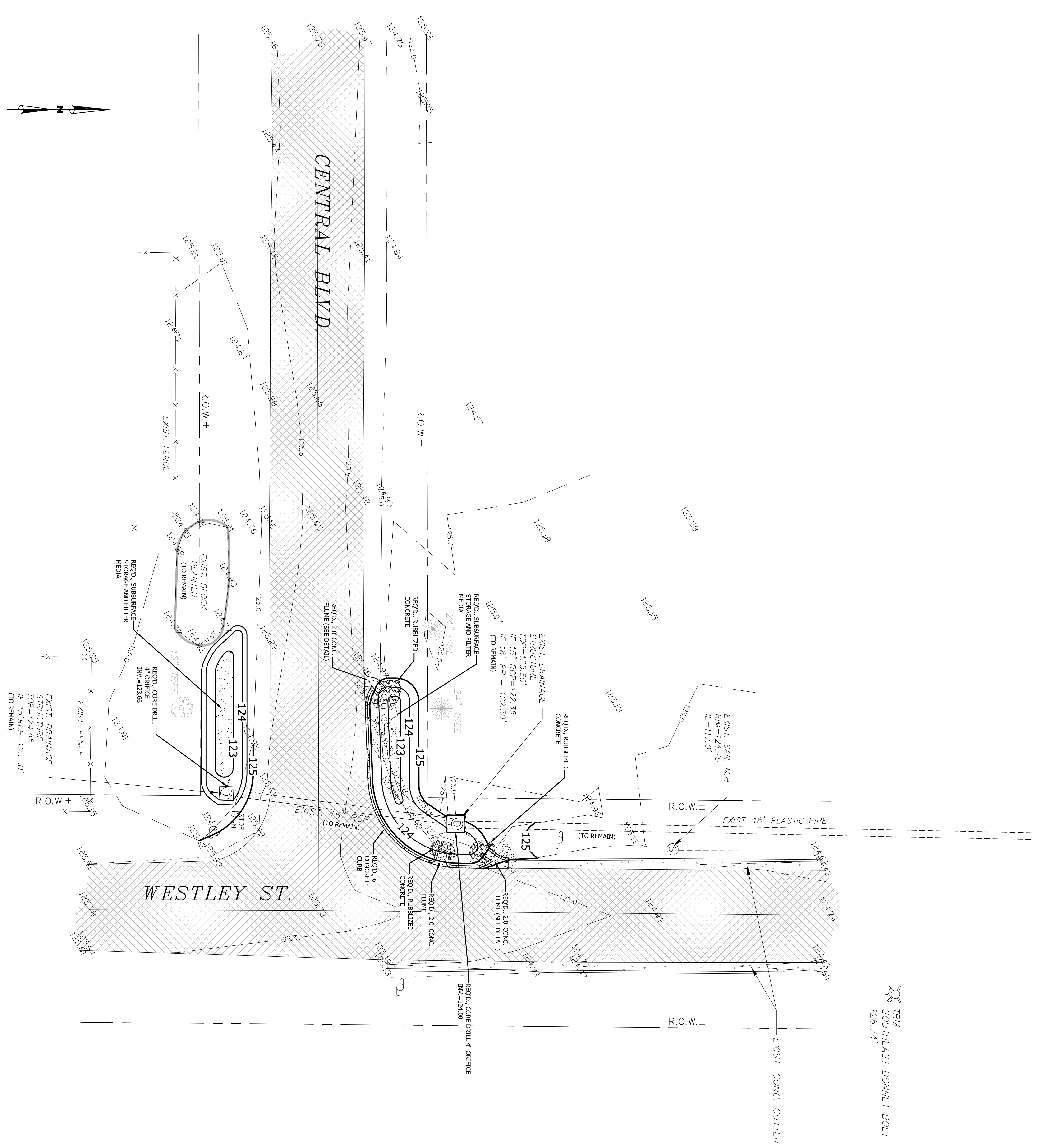
EXISTING CONDITIONS & DEMOLITION PLAN
WESLEY ST. & CENTRAL BLVD., FAIRHOPE ALABAMA
CITY OF FAIRHOPE

Jinright & Associates Development Engineers
208 Greco Road South Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
251.928.3443(tel) 251.928.3665(fax)
jadengineers.com

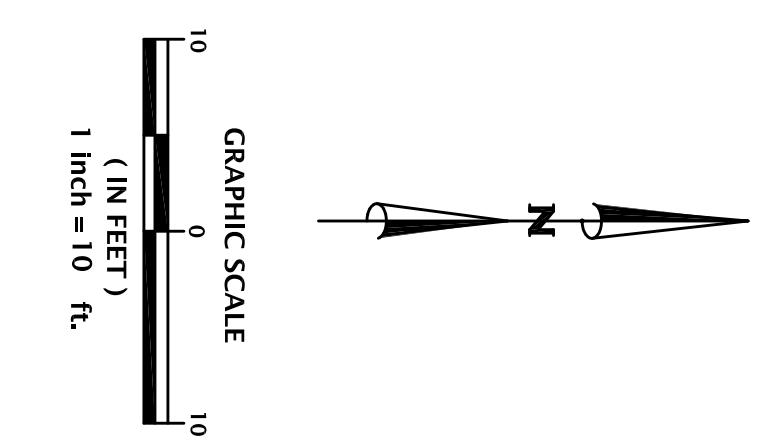


NO.	REVISION	DATE	APPR.

JOB NO.: 118820
SCALE: 1" = 10'
DWG: WES CEN DEMO
DATE: MARCH, 2012
DRAWN: JMC
CHECKED BY:
SHEET 12 OF 14



T&M
SOUTHEAST BONNET BOLT
126 74'



- Notes to Contractor**
1. The contractor shall protect and maintain any existing slopes and infrastructures on the site (i.e. ponds, inlets, etc.).
 2. After the storm drain system is completed the contractor shall video the system and submit video to the owner for review.
 3. The contractor shall maintain access to the site for the duration of the project.

NOTE: ALL DISTURBED AREAS SHALL BE STABILIZED WITH SOLID SOD.

LEGEND

	R.O.W.
	RIGHT-OF-WAY
	PROPERTY LINE
	EXISTING PAVING
	EXISTING CONCRETE
	PROPOSED LOOSE RIP-RAP WITH FILTER BLANKET
	PROPOSED SUSPENSION STORAGE & FILTER MEDIA

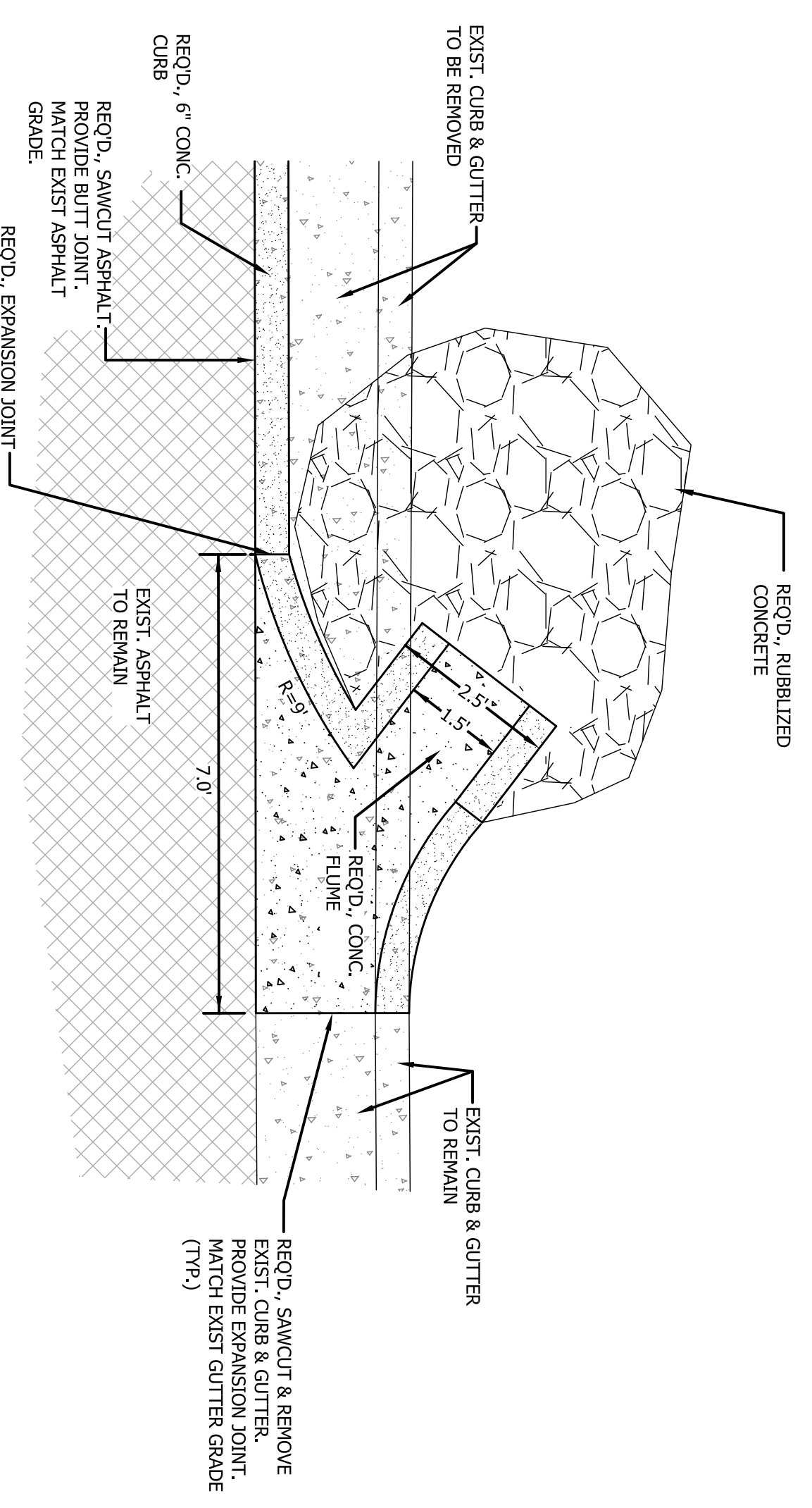
GRADING AND DRAINAGE PLAN
WESTLEY ST. & CENTRAL BLVD., FAIRHOPE ALABAMA
CITY OF FAIRHOPE

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251.928.3443(tel) 251.928.3665(fax)
jadengineers.com



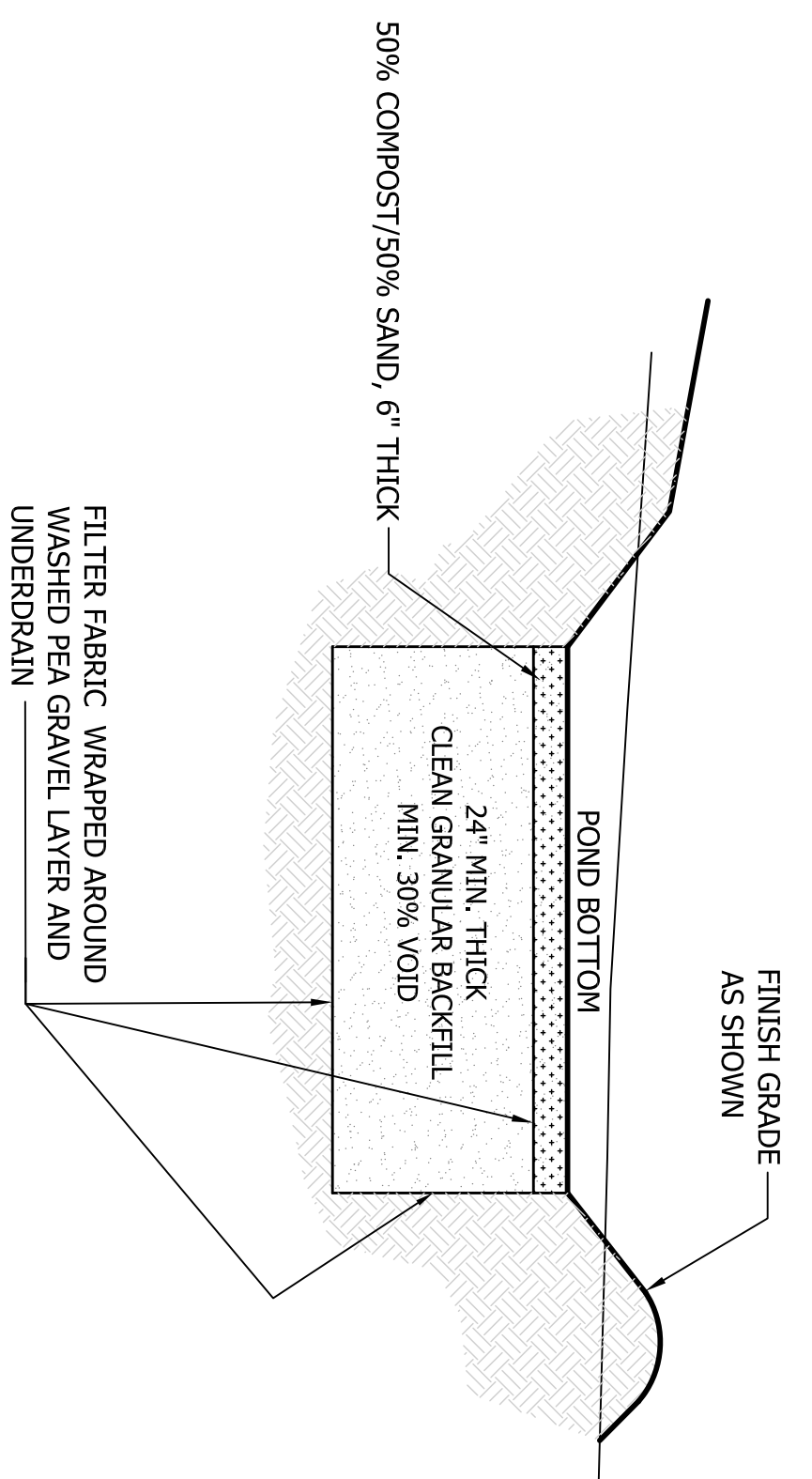
NO.	REVISION	DATE	APPR.

JOB NO.: 118930
SCALE: 1" = 10'
DWG: WS-CENT SITE
DATE: MARCH, 2012
DRAWN: JMC
CHECKED BY: JMC
SHEET 13 OF 14



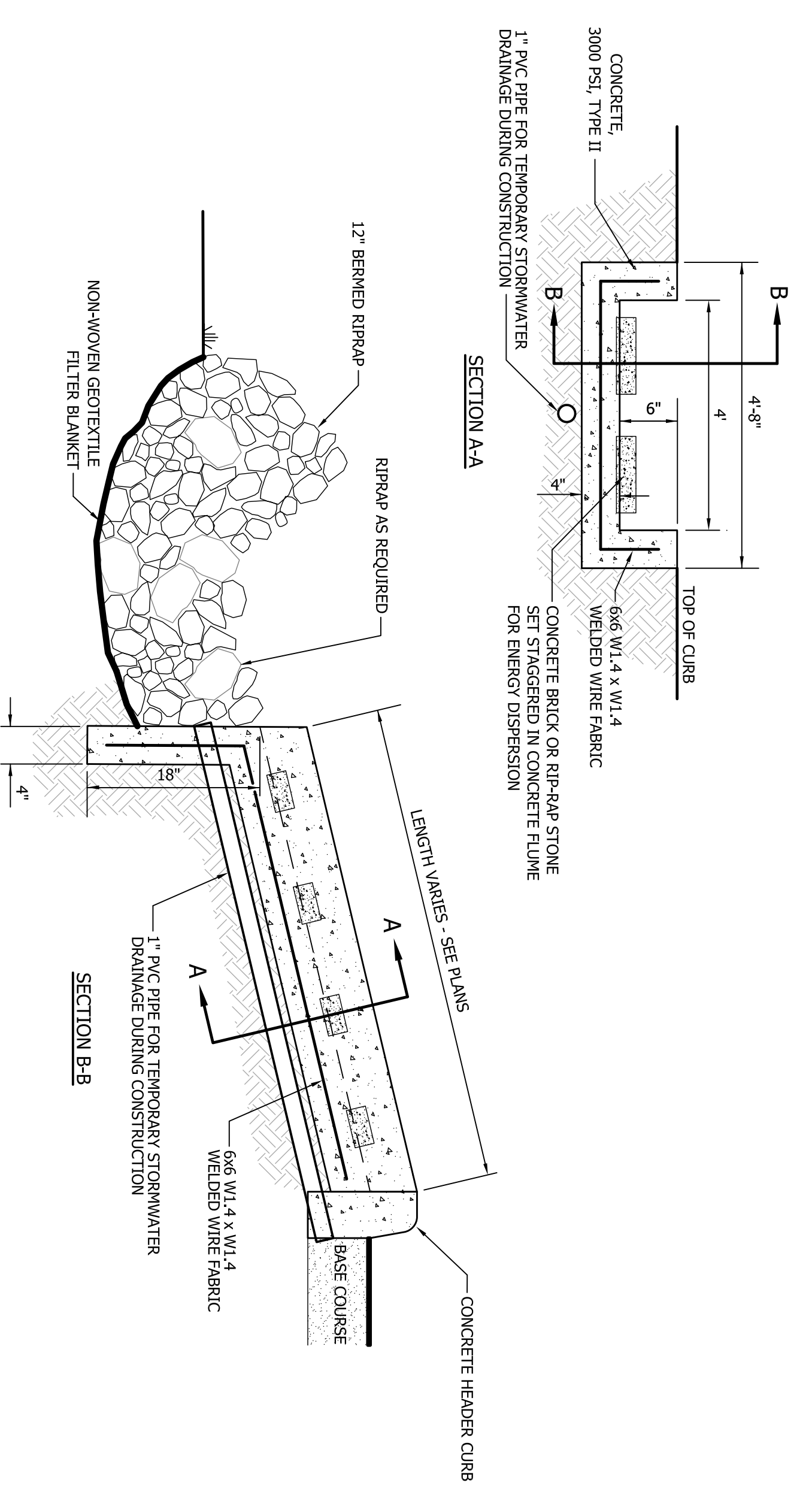
CONCRETE FLUME & CURB TRANSITION DETAIL

NTS



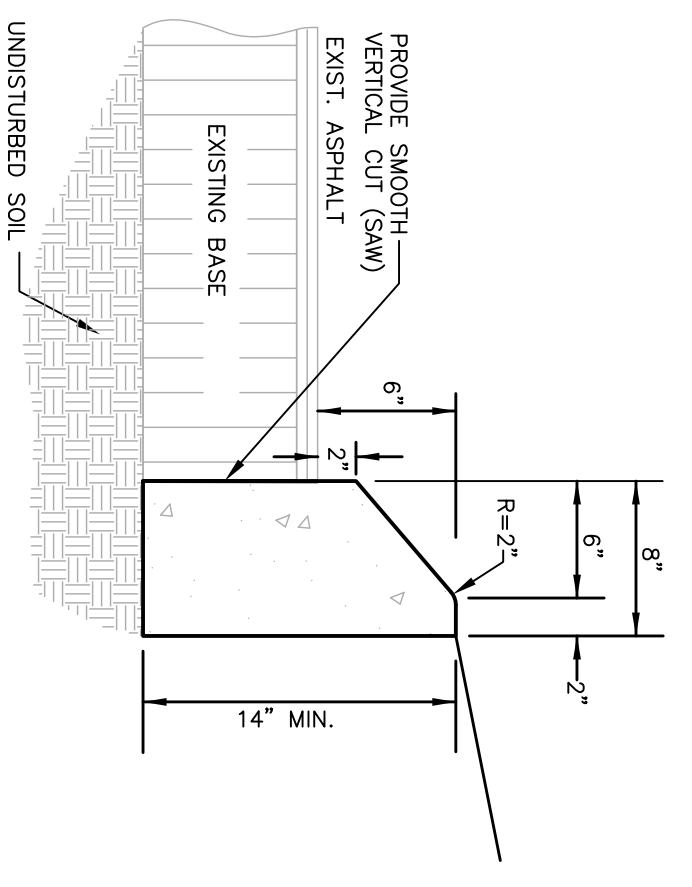
SUBSURFACE STORAGE AND FILTER MEDIA SECTION

NTS



CONCRETE FLUME DETAIL

NTS



ALDOT TYPE "N" CONCRETE CURB (OR APPROVED EQUAL)

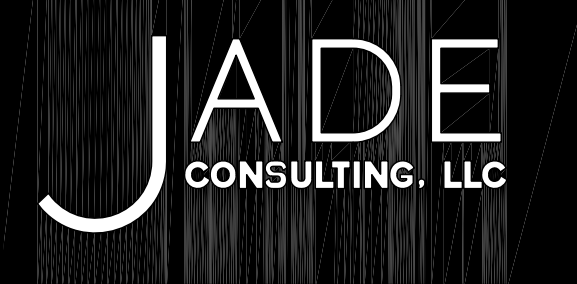
NTS

NOTE:

1. CURB TO BE PLACED BY SLIP FORM METHOD OR APPROVED EQUAL.
2. TRAPEZOIDAL JOINTS TO BE FORMED IN CONCRETE FLUME AND CURB.
3. CONTRACTION JOINTS TO BE PLACED AT 10' INTERVALS AND EXPANSION JOINTS USE FRENCH-DRILLED EXPANSION JOINT FILLER CONFORMING TO ASTM D751 OR D752 (OR APPROVED EQUAL).

CIVIL CONSTRUCTION DETAILS
WESTLEY ST. & CENTRAL BLVD., FAIRHOPE ALABAMA
CITY OF FAIRHOPE

Jinright & Associates Development Engineers
208 Grecco Road South Fairhope, Alabama 36532
P.O. Box 1929 Fairhope, Alabama 36533
251.928.3443(eph) 251.928.3665(tax)
jadengineers.com



NO.	REVISION	DATE	APPR.

JOB NO: 118820
SCALE: NONE
DWG: CIV DTLS
DATE: MARCH, 2012
DRAWN: JMC
CHECKED BY: JMC
SHEET 14 OF 14