

Development	# of Units	Design (gpd)	SANITARY		STORM WATER	
			Total Flow (gpd)	CAP (gpd)	Total Flow (gpd)	AREA OF W.S. (Acres)
Noland, Phase 4	129	400	51,600	192	24,768	90.88
Brannon Reserve	152	400	60,800	192	29,184	48.91
Ashtree, Unit 6	104	400	41,600	192	19,968	15.28
TOTALS	385		154,000		73,920	155.07

EXHIBIT A

BALL HOMES, LLC +
 GREY OAK LANE, LLC
 ASH GROVE JOINT STORM +
 SANITARY PROJECT
 ASH GROVE ROAD
 SCALE 1" = 1000'

CONSTRUCTION PLANS

ASHGROVE JOINT DETENTION BASIN & PUMP STATION

NICHOLASVILLE, KENTUCKY 40356

JULY 2019

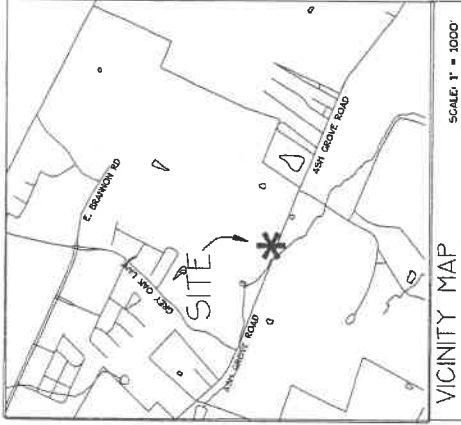
OWNER/DEVELOPER

GREY OAK LANE LLC & BALL HOMES LLC
1000 GREY OAK LANE 3609 WALDEN DRIVE
NICHOLASVILLE, KY 40356 LEXINGTON, KY 40517

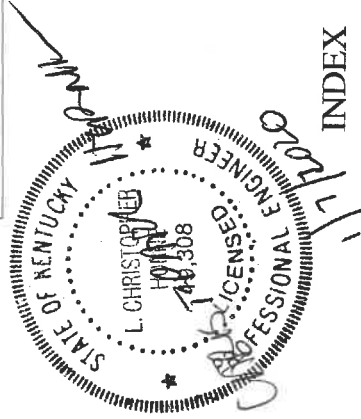
HORNE ENGINEERING, INC.

ENGINEERS - PLANNERS - LAND SURVEYORS
216 SOUTH MAIN STREET - NICHOLASVILLE, KY. 40356
(859) 885-9441 FAX (859) 885-5160

385 LOTS • 400 GPD = 154,000 GPD

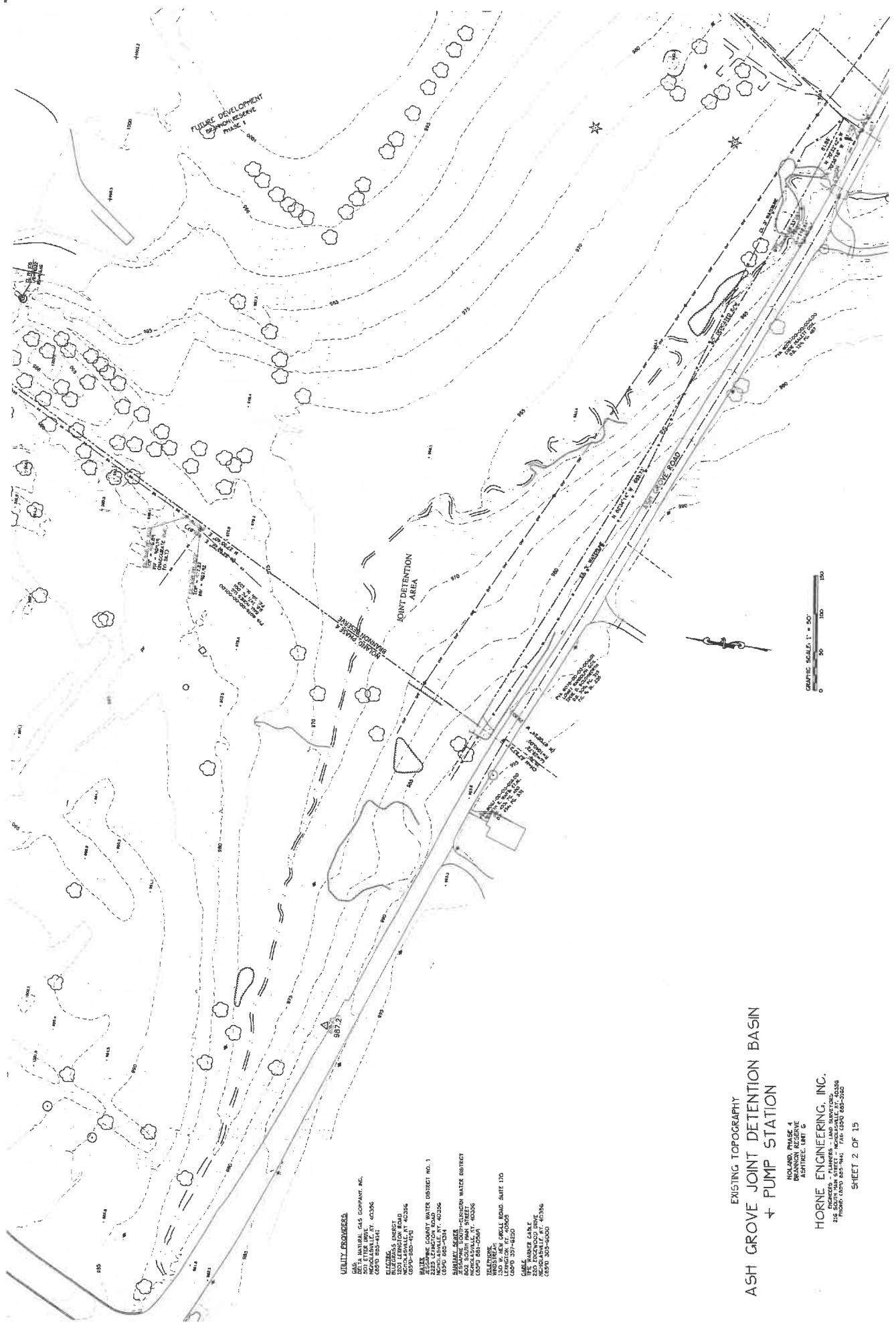


VICINITY MAP



INDEX

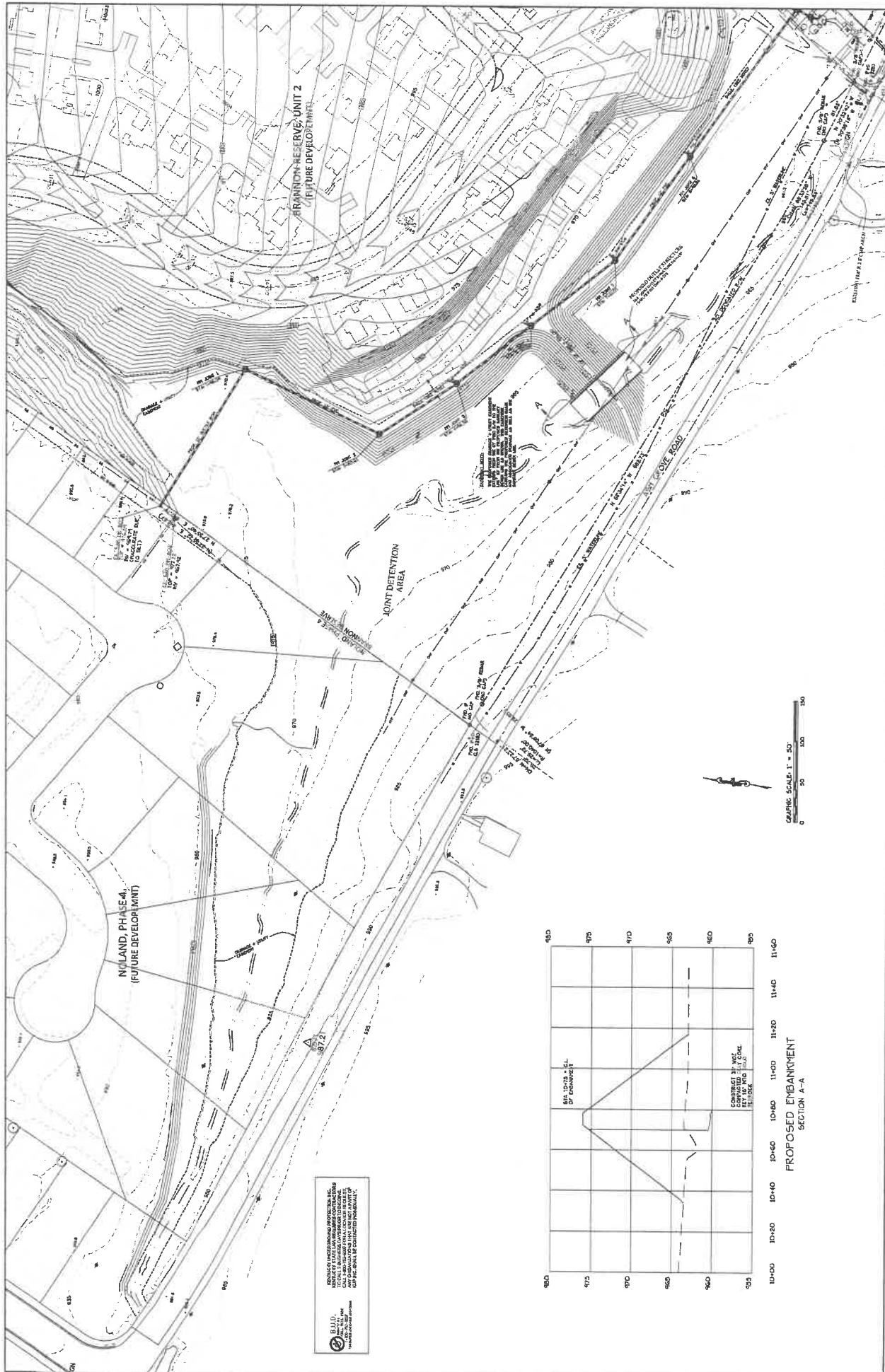
GENERAL NOTES	1
EXISTING TOPOGRAPHY	2
DETENTION BASIN PROPOSED REGRADE	3
OUTLET STRUCTURE DETAILS	4-7
SANITARY GRAVITY LINE (PLAN & PROFILE)	8
PUMP STATION SITE PLAN	9
PUMP STATION DETAILS	10
SANITARY FORCE MAIN	11
STORM SEWER STANDARD DETAILS	12-13
SANITARY SEWER STANDARD DETAILS	14-15



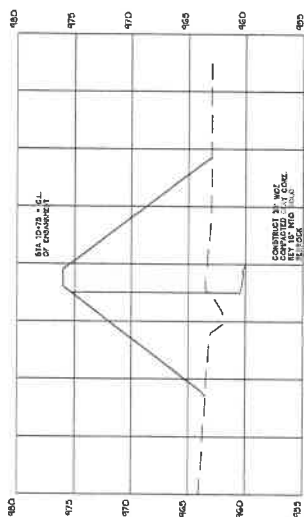
- UTILITY PROVIDERS**
- DELTA NATURAL GAS COMPANY, INC.
1000 W. MAIN STREET
MORGANVILLE, N.J. 07093
609-593-4141
- ELIZABETH WATERWORKS
1000 LENOX ROAD
MORGANVILLE, N.J. 07093
609-593-4101
- WATER: MONMOUTH COUNTY WATER DISTRICT NO. 1
2255 LENOX ROAD
MORGANVILLE, N.J. 07093
609-593-4101
- SEWER: MONMOUTH COUNTY WATER DISTRICT
400 SOUTH MAIN STREET
MORGANVILLE, N.J. 07093
609-593-4101
- TELEPHONE: MONMOUTH COUNTY TELEPHONE CO.
1000 W. MAIN STREET
MORGANVILLE, N.J. 07093
609-593-4101
- CONCRETE: MONMOUTH COUNTY CONCRETE CO.
1000 W. MAIN STREET
MORGANVILLE, N.J. 07093
609-593-4101
- IRONWORK: MONMOUTH COUNTY IRONWORK CO.
1000 W. MAIN STREET
MORGANVILLE, N.J. 07093
609-593-4101
- PAINT: MONMOUTH COUNTY PAINT CO.
1000 W. MAIN STREET
MORGANVILLE, N.J. 07093
609-593-4101

EXISTING TOPOGRAPHY
**ASH GROVE JOINT DETENTION BASIN
 + PUMP STATION**

HOLAND, PHASE 4
 DRAGON RESERVE
 ASTORIA, OR
HORNE ENGINEERING, INC.
 ENGINEERS - PLANNERS - LAND SURVEYORS
 2120 W. MAIN STREET, SUITE 200
 MORGANVILLE, N.J. 07093
 PHONE: (609) 897-7441 FAX: (609) 897-0508




B.L.L. ENGINEERING, INC.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY, LICENSE NO. 14589
 423 S. MAIN ST., SUITE 200
 NICHOLASVILLE, KY 40356
 TEL: 502-525-8888 FAX: 502-525-8889



GRAPHIC SCALE 1" = 50'
 0 50 100 150

PROPOSED EMBANKMENT
 SECTION A-A

ASHGROVE - JOINT DETENTION BASIN
BALL HOMES, LLC + GREY OAK LANE, LLC
 4515 ASHGROVE ROAD, NICHOLASVILLE, KENTUCKY 40356

HORNE ENGINEERING, INC.
 ENGINEERS - PLANNERS - LAND SURVEYORS
 2400 SOUTH MAIN STREET - FAY CENTER
 COLUMBUS, MISSISSIPPI 39208

JOINT DETENTION BASIN
PROPOSED REGRADE

NO.	REVISIONS	BY	DATE	SCALE	DATE
				11" 1" = 50'	7/20/19

OUTLET STRUCTURE - CONCEPTUAL

ASHGROVE JOINT OUTLET STRUCTURE
 Ashgrove Rd
 Nicholasville, KY

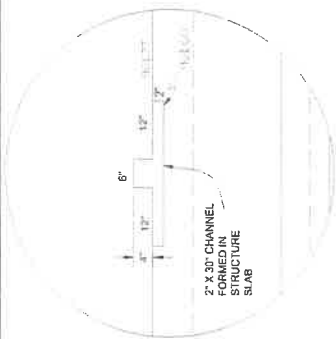
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 Drawn By: CH
 12/19/18

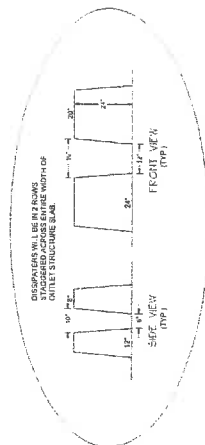
OUTLET STRUCTURE
 - CONCEPTUAL

Sheet 4 of 15
S-001

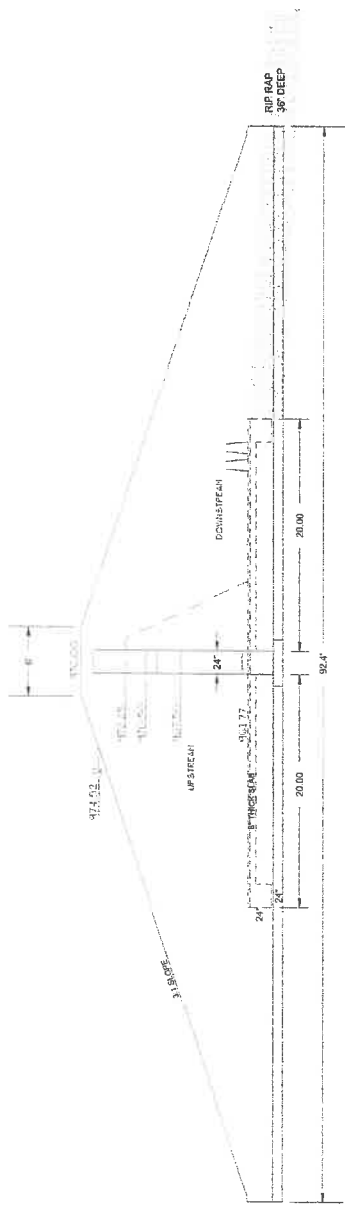
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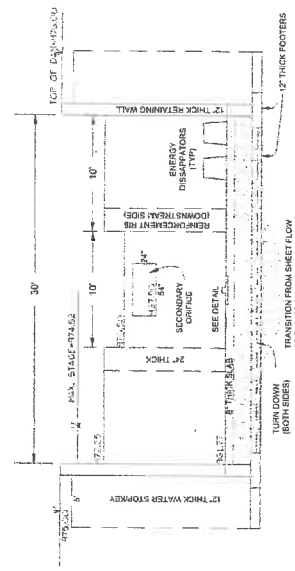
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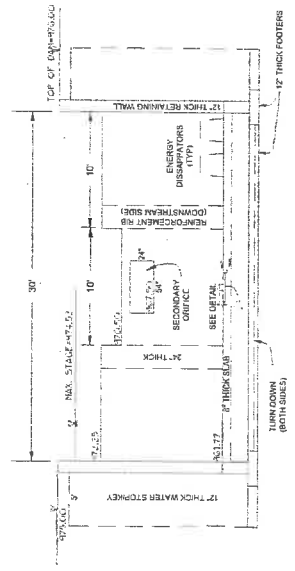
ENERGY DISSIPATER DETAIL
 1:1.25



PROFILE VIEW - ALONG STREAM
 USING SCALE: 1" = 20'



DOWNSTREAM VIEW
 (VIEW FROM BELOW BASIN LOOKING UPSTREAM)



UPSTREAM VIEW
 (VIEW FROM INSIDE BASIN LOOKING DOWNSTREAM)

JOINT OUTLET STRUCTURE - CONCEPTUAL SUPPORT INFORMATION



GENERAL NOTES

ASHGROVE JOINT OUTLET STRUCTURE

Ashgrove Rd
Nicholasville, KY

#	DESCRIPTION	DATE
1	Revision 1	Date 1

Checked by: JIM/ADM
Drawn by: CBG
12/19/18

GENERAL NOTES

Sheet 5 of 15
S-100

ABBREVIATIONS
(FOR STRUCTURAL DRAWINGS ONLY)

SYMBOL	DESCRIPTION
GA.V.	GALVANIZED
GR	GRADE BEAM
GR.C	GRADE CURB
GR.L	GRADE LINE
GR.S	GRADE SURFACE
GR.T	GRADE TOP
GR.B	GRADE BOTTOM
GR.H	GRADE HEIGHT
GR.W	GRADE WIDTH
GR.D	GRADE DRAIN
GR.F	GRADE FINISH
GR.C	GRADE CURB
GR.L	GRADE LINE
GR.S	GRADE SURFACE
GR.T	GRADE TOP
GR.B	GRADE BOTTOM
GR.H	GRADE HEIGHT
GR.W	GRADE WIDTH
GR.D	GRADE DRAIN
GR.F	GRADE FINISH

LEGEND

SYMBOL	DESCRIPTION
[Pattern]	CONCRETE
[Pattern]	GRAVEL
[Pattern]	GRAVEL UNDER DRAINAGE
[Pattern]	GRAVEL UNDER FLOOR
[Pattern]	GRAVEL UNDER SIDEWALK
[Pattern]	GRAVEL UNDER DRIVEWAY
[Pattern]	GRAVEL UNDER PATIO
[Pattern]	GRAVEL UNDER PORCH
[Pattern]	GRAVEL UNDER DECK
[Pattern]	GRAVEL UNDER STAIR
[Pattern]	GRAVEL UNDER WALKWAY
[Pattern]	GRAVEL UNDER DRIVE
[Pattern]	GRAVEL UNDER ROAD
[Pattern]	GRAVEL UNDER PARKING
[Pattern]	GRAVEL UNDER DRIVEWAY
[Pattern]	GRAVEL UNDER PATIO
[Pattern]	GRAVEL UNDER PORCH
[Pattern]	GRAVEL UNDER DECK
[Pattern]	GRAVEL UNDER STAIR
[Pattern]	GRAVEL UNDER WALKWAY
[Pattern]	GRAVEL UNDER DRIVE
[Pattern]	GRAVEL UNDER ROAD
[Pattern]	GRAVEL UNDER PARKING

DESIGN CRITERIA

LOAD TYPE	COMPONENT	LOAD VALUE
DEAD LOADS	PER 2013 IRC & IBC	120 PSF
LIVE LOADS	PER 2013 IRC & IBC	120 PSF
WIND LOADS	PER 2013 IRC & IBC	120 PSF
SEISMIC LOADS	PER 2013 IRC & IBC	120 PSF
IMPACT LOADS	PER 2013 IRC & IBC	120 PSF
CRUSHED STONE	PER 2013 IRC & IBC	120 PSF
CONCRETE GRADE	PER 2013 IRC & IBC	120 PSF
GRAVEL	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER DRAINAGE	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER FLOOR	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER SIDEWALK	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER DRIVEWAY	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER PATIO	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER PORCH	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER DECK	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER STAIR	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER WALKWAY	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER DRIVE	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER ROAD	PER 2013 IRC & IBC	120 PSF
GRAVEL UNDER PARKING	PER 2013 IRC & IBC	120 PSF

CONTRACTOR COORDINATION:

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND FINISHES AGAINST THE ARCHITECTURAL DRAWINGS AND THE CONSTRUCTION DOCUMENTS PRIOR TO THE COMMENCEMENT OF WORK. IN THE EVENT OF A DISCREPANCY, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING. THE ARCHITECT'S RESPONSE SHALL BE IN WRITING AND SHALL BE RECEIVED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF OBTAINING THESE PERMITS AND APPROVALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FOUNDATIONS AND RETAINING WALLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FOUNDATIONS AND RETAINING WALLS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FOUNDATIONS AND RETAINING WALLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FOUNDATIONS AND RETAINING WALLS.
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FOUNDATION NOTES:

- THE FOUNDATIONS HAVE BEEN DESIGNED BASED ON A PRESUMPTIVE LOAD-BEARING VALUE OF 1000 PSF.
- FOUNDATIONS SHALL BE PROPERLY PREPARED AND COMPACTED SOILS AS SHOWN IN THE GEOTECHNICAL REPORT REFERENCED ABOVE.
- PROTECT EXISTING UTILITIES AND STRUCTURES (OVERHEAD OR UNDERGROUND) WITHIN THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FOUNDATIONS AND RETAINING WALLS.
- FOUNDATIONS WERE DESIGNED UTILIZING IRC SECTION 1803. ALTERNATIVE BASIC LOAD COMBINATIONS WITHOUT THE 1.0 INCREASE IN THE ALLOWABLE BEARING PRESSURES DUE TO SHORT-TERM LOADING.
- ALL DIMENSIONS SHALL BE PERFORMED ACCORDING TO THE GEOTECHNICAL REPORT REFERENCED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FOUNDATIONS AND RETAINING WALLS.
- FOUNDATIONS SHALL BE PLACED ACCORDING TO THE NOTATIONS ON THE DRAWINGS. SHOULD SOIL CONDITIONS BE FOUND TO BE UNUSUAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL FOUNDATIONS AND RETAINING WALLS.

CONCRETE NOTES:

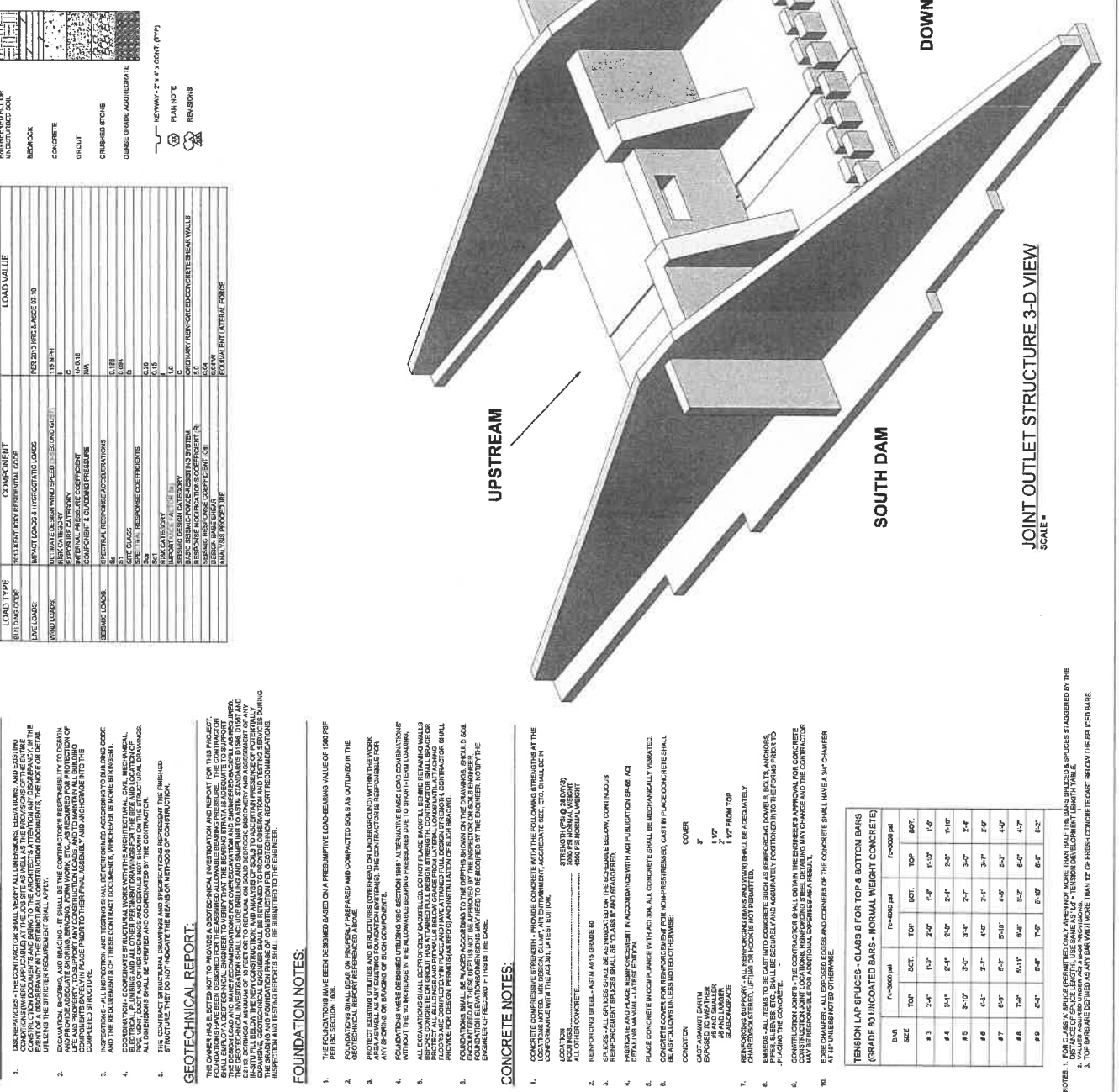
- CONCRETE SHALL BE PLACED AND FINISHED WITH THE FOLLOWING STRENGTHS AT THE LOCATION NOTED: MIN. 4000 PSI FOR EXTERIOR, 4500 PSI FOR INTERIOR, 5000 PSI FOR FOUNDATION, 5500 PSI FOR NORMAL WEIGHT CONCRETE.
- REINFORCING STEEL - ALL REINFORCING BARS AND TIES SHALL BE FABRICATED BY THE CONTRACTOR AND SHALL BE PLACED AND TIED ACCORDING TO THE DRAWINGS.
- REINFORCING STEEL SHALL BE PLACED AND TIED ACCORDING TO THE DRAWINGS.
- REINFORCING STEEL SHALL BE PLACED AND TIED ACCORDING TO THE DRAWINGS.
- CONCRETE COVER FOR REINFORCING FOR NON-PRESTRESSED CAST-IN PLACE CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- COVER:
 - TOP: 2" (1" FOR TOP)
 - SIDE: 1" (1" FOR TOP)
 - SLAB ON GRADE: 1" (1" FOR TOP)
- REINFORCING BARS SHALL BE PLACED AND TIED ACCORDING TO THE DRAWINGS.
- REINFORCING BARS SHALL BE PLACED AND TIED ACCORDING TO THE DRAWINGS.
- REINFORCING BARS SHALL BE PLACED AND TIED ACCORDING TO THE DRAWINGS.
- REINFORCING BARS SHALL BE PLACED AND TIED ACCORDING TO THE DRAWINGS.

TENSION LAP SPICES - CLASS B FOR TOP & BOTTOM BARS (GRADE 80 UNCOATED BARS - NORMAL WEIGHT CONCRETE)

BAR	SIZE	TOP	BOT.	TOP	BOT.	TOP	BOT.
#1	2.0"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'
#2	2.5"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'
#3	3.0"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'
#4	3.5"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'
#5	4.0"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'
#6	4.5"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'
#7	5.0"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'
#8	5.5"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'
#9	6.0"	1.0'	2.0'	1.0'	2.0'	1.0'	2.0'

NOTES:

- FOR CLASSES A, B, C, AND D, THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND FINISHES AGAINST THE ARCHITECTURAL DRAWINGS AND THE CONSTRUCTION DOCUMENTS PRIOR TO THE COMMENCEMENT OF WORK. IN THE EVENT OF A DISCREPANCY, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING. THE ARCHITECT'S RESPONSE SHALL BE IN WRITING AND SHALL BE RECEIVED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
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SCALE: 1/8" = 1'-0"



WEISER
ENGINEERING

1000 W. MAIN ST. SUITE 400
NICHOLASVILLE, KY 40301
606.221.5588
606.221.5589
WWW.WEISERENGINEERING.COM

FOUNDATION PLAN

ASHROVE JOINT OUTLET STRUCTURE

Ashrove Rd
Nicholasville, KY

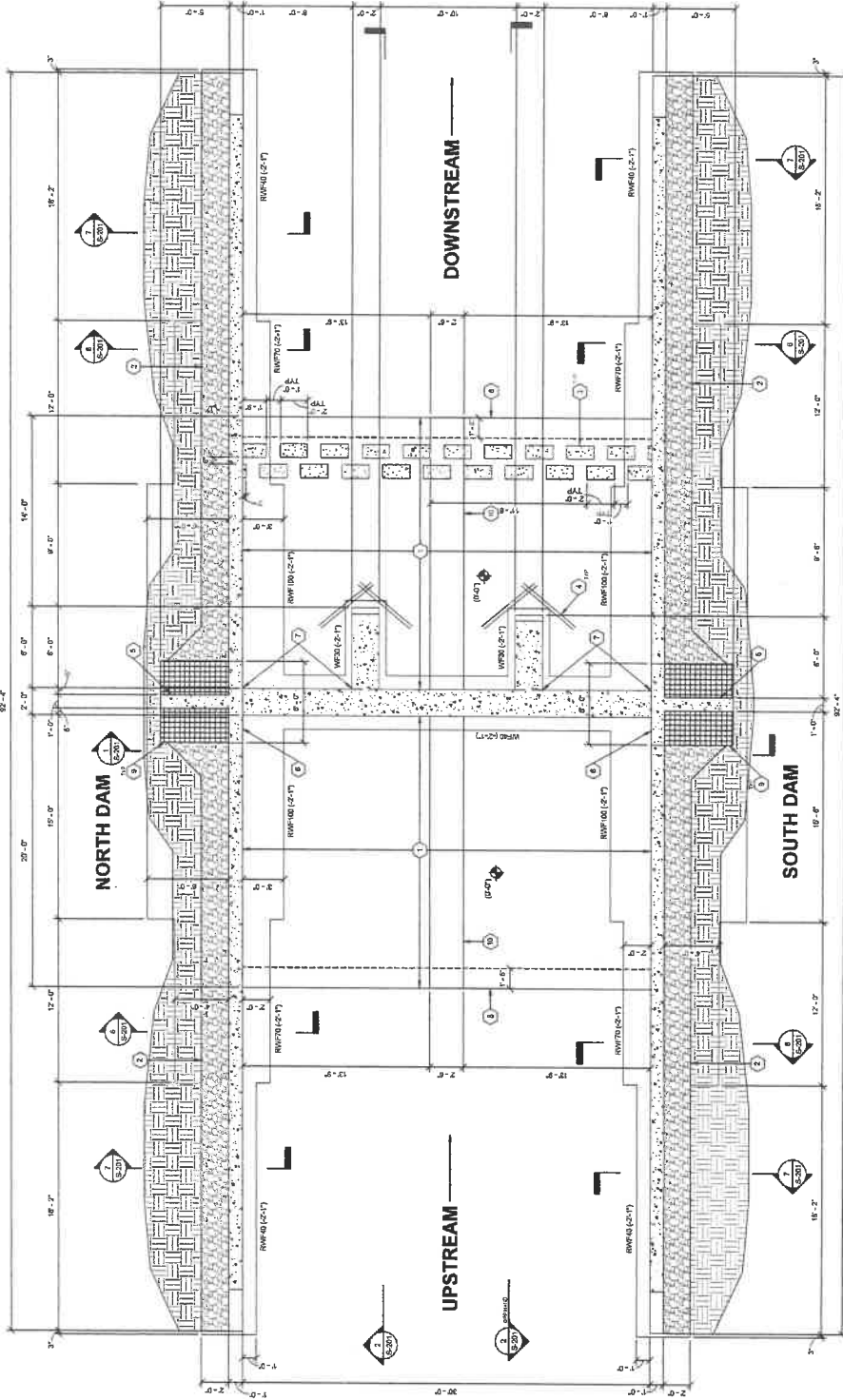
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1		
2		
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Checked By: JIMY/ADM
Drawn By: CBG
1/7/19/18

FOUNDATION PLAN

Sheet 6 of 15
S-101

12/28/2013 12:44 AM



JOINT OUTLET STRUCTURE FOUNDATION PLAN
SCALE = 1/4" = 1'-0"

FOUNDATION PLAN NOTES

- ELEVATIONS SHOWN ARE INDICATED TO TOP OF FOOTING FROM FINISHED SUB REFERENCE ELEVATION (F-7) = 417.7.
- CENTER ALL NON-RETAINING WALL FOOTINGS ON WALL CENTERLINE U.L.O.
- SEE SHEET S-100 FOR ORIGINAL NOTES.
- SEE SHEET S-101 FOR TYPICAL FOUNDATION DETAILS.
- SEE SHEET S-101 FOR CONCEPTUAL SUPPORT INFORMATION.

FOUNDATION PLAN TAG NOTES

- 1" THICK 40# CONCRETE AS AN OVERLAP REINFORCED TO 48" O.C. EACH WAY OVER COMPACTED SUBBED FLOOR OR DGA.
- 3" MIN. OPEN GRADED FILL DRIVING GRANULAR BACKFILL BEHIND ALL RETAINING WALLS.
- 40# PRE-CAST CONCRETE ENERGY DISSIPATORS, SEE DET S-101 FOR REINFORCING.
- (3) #4 @ 1'-0" @ 90 DEGREE CORNERS CENTERED IN ALL CORNERS.
- DO NOT ALL WALL VERTICAL BARS INTO RETAINING WALL FOOTING.
- TOP RETAINING WALL ELEV = 417.7 AT CENTER, SEE SECTION A-301.
- DO NOT HORIZONTAL BARS AT ALL WALL INTERSECTIONS PER DET A-301, TYP. U.L.O.
- DO NOT HORIZONTAL BARS AT ALL WALL INTERSECTIONS PER DET A-301, TYP. U.L.O. OF SOLID ROCK AT 1' BELOW DOWNSTREAM TOE OF WALL.
- #4 REINFORCING C-AT CORNER INTO UNSETTLED GROUND TO 1' BELOW TOP OF DAM.
- 2" DEEP JOY-WAVE CHANNEL FORMED IN STRUCTURE SLAB, SEE DET A-301.

ALLOWABLE BEARING PRESSURE - 1500 PSF (ASSUMED)

WALL	SIZE (WIDTH x DEPTH)	LONGITUDINAL BOLT REINFORCING
WFO	3'-0" x 7'-0"	(1) #4 CONT
WFO	4'-0" x 7'-0"	(2) #4 CONT (TOP & BOT)
WFO	7'-0" x 7'-0"	SEE DET A-301
WFO	10'-0" x 7'-0"	SEE DET A-301
WFO	12'-0" x 7'-0"	SEE DET A-301

SEE SECTIONS FOR TRANSVERSE REINFORCING BOTTOM BARS.



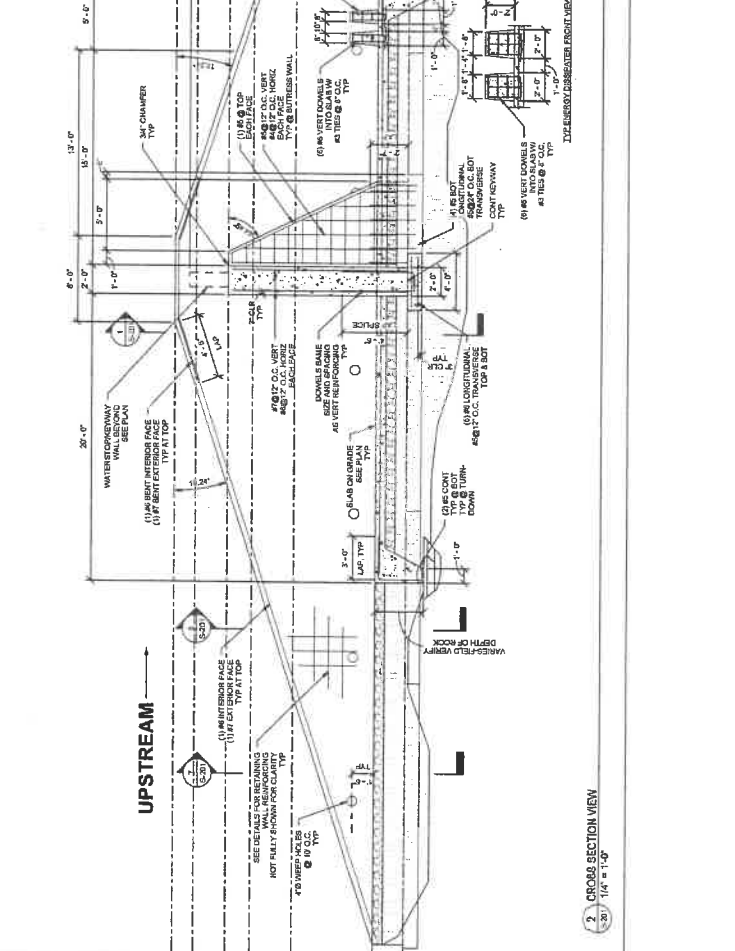
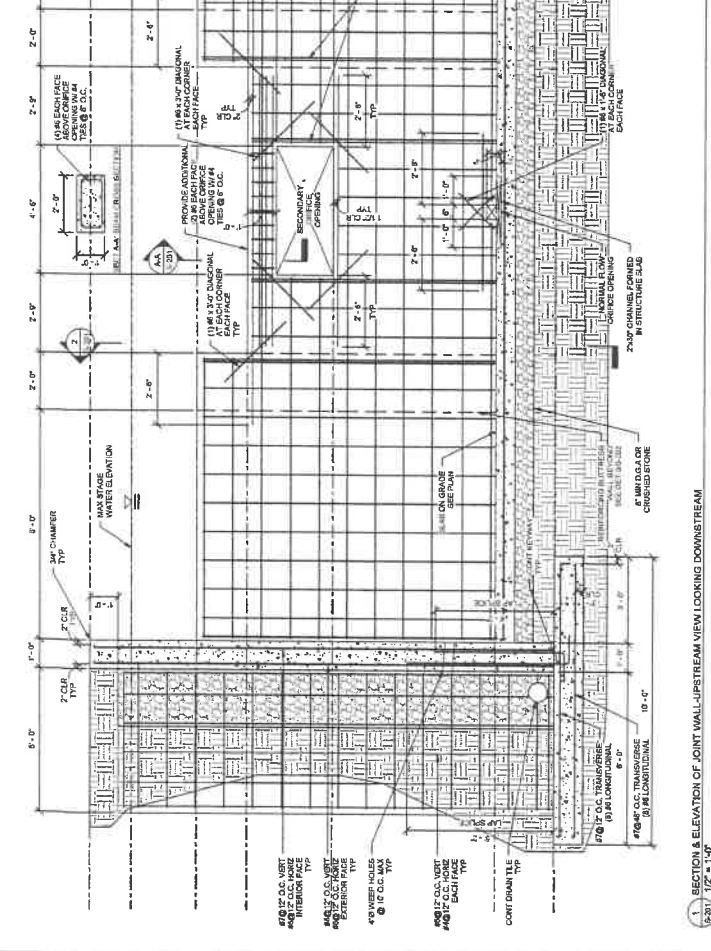
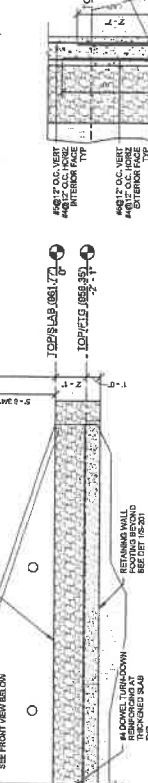
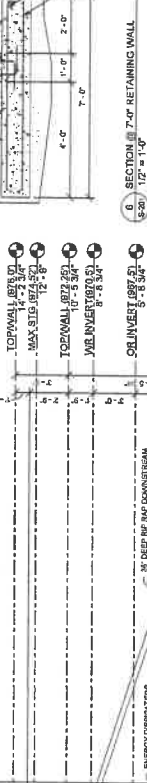
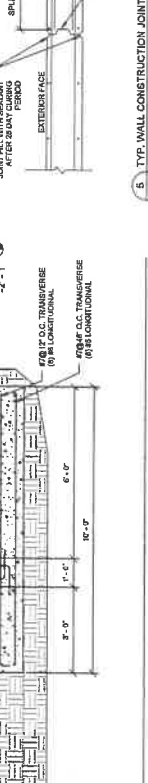
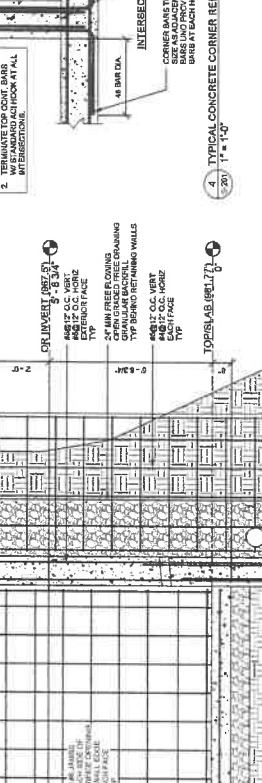
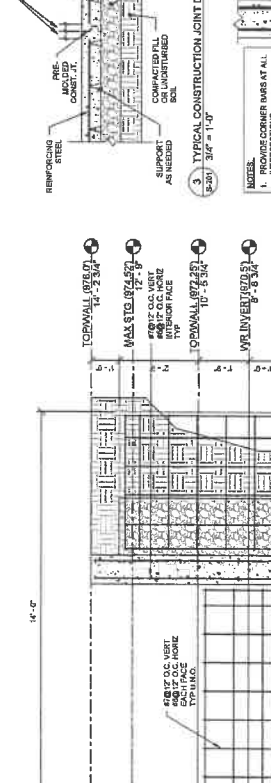
WEISER
 CONSULTING ENGINEERS
 805 7th Street
 Ash Grove, KY 40306
 502-422-1025

ASHGROVE ROAD INTERSECTION OF
 NICHOLASVILLE, KY
FOUNDATION DETAILS & SECTIONS

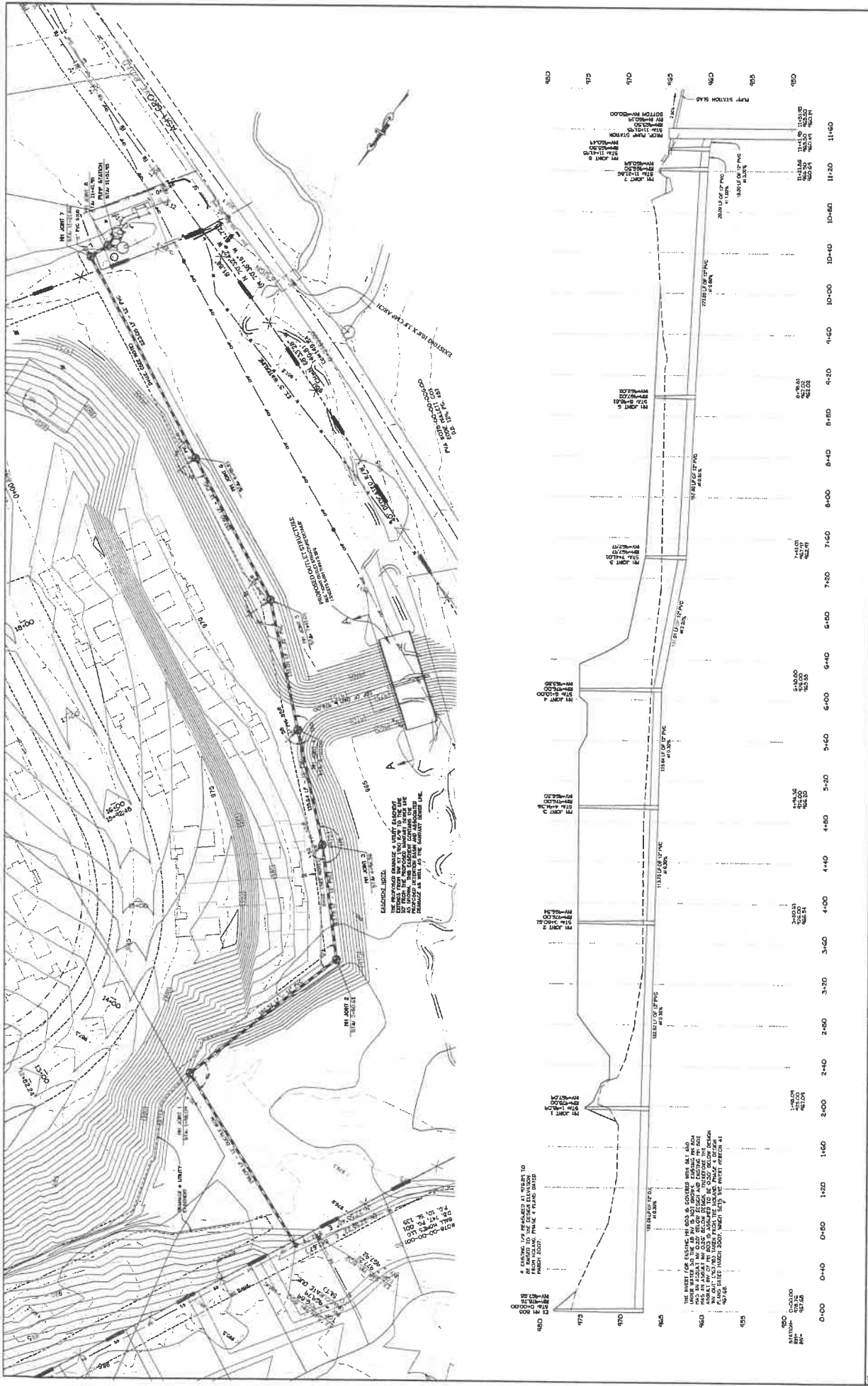
Checked By: JMY/ADM
 Drawn By: CBG
 12/19/18

**FOUNDATION
 DETAILS &
 SECTIONS**

Sheet 7 of 15
S-201



2. CROSS SECTION VIEW
 1/4" = 1'-0"



NO.	REVISIONS	DATE	BY	CHK	APP	SCALE	DATE	DATE	SCALE	PROJECT	SHEET
		12/10/2018				H: 1"=40' V: 1"=5'				ASHGROVE - JOINT PUMP STATION BALL HOMES, INC. + GREY OAK LANE, LLC ASHGROVE ROAD, NICHOLASVILLE, KENTUCKY 40356	6 OF 15
										HORNE ENGINEERING, INC. ENGINEERS - PLANNERS - LAND SURVEYORS 216 SOUTH MAIN ST., FAYETTEVILLE, KY 40424	
										SANITARY SEWER JOINT GRAVITY LINE TO PUMP STATION STA 0+00 TO STA 11+61.91	

THE SHEET IS FOR THE PROJECT DESCRIBED ABOVE AND IS NOT TO BE USED FOR ANY OTHER PROJECT. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DATA AND THE RESULTS OF THE DESIGN. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE PUBLIC. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ENVIRONMENT AND THE PRESERVATION OF HISTORIC STRUCTURES AND LANDMARKS. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE WATER RESOURCES AND THE PREVENTION OF POLLUTION. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE AIR RESOURCES AND THE PREVENTION OF AIR POLLUTION. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SOIL RESOURCES AND THE PREVENTION OF SOIL POLLUTION. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE VEGETATION AND THE PREVENTION OF VEGETATION DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ANIMALS AND THE PREVENTION OF ANIMAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PLANTS AND THE PREVENTION OF PLANT DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE CULTURAL RESOURCES AND THE PREVENTION OF CULTURAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE HISTORIC RESOURCES AND THE PREVENTION OF HISTORIC DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SCIENTIFIC RESOURCES AND THE PREVENTION OF SCIENTIFIC DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EDUCATIONAL RESOURCES AND THE PREVENTION OF EDUCATIONAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE RECREATIONAL RESOURCES AND THE PREVENTION OF RECREATIONAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE AESTHETIC RESOURCES AND THE PREVENTION OF AESTHETIC DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SOCIAL RESOURCES AND THE PREVENTION OF SOCIAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ECONOMIC RESOURCES AND THE PREVENTION OF ECONOMIC DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ENVIRONMENTAL RESOURCES AND THE PREVENTION OF ENVIRONMENTAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE NATURAL RESOURCES AND THE PREVENTION OF NATURAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE CULTURAL RESOURCES AND THE PREVENTION OF CULTURAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE HISTORIC RESOURCES AND THE PREVENTION OF HISTORIC DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SCIENTIFIC RESOURCES AND THE PREVENTION OF SCIENTIFIC DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EDUCATIONAL RESOURCES AND THE PREVENTION OF EDUCATIONAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE RECREATIONAL RESOURCES AND THE PREVENTION OF RECREATIONAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE AESTHETIC RESOURCES AND THE PREVENTION OF AESTHETIC DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SOCIAL RESOURCES AND THE PREVENTION OF SOCIAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ECONOMIC RESOURCES AND THE PREVENTION OF ECONOMIC DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ENVIRONMENTAL RESOURCES AND THE PREVENTION OF ENVIRONMENTAL DAMAGE. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE NATURAL RESOURCES AND THE PREVENTION OF NATURAL DAMAGE.

ASHGROVE JOINT PUMP STATION

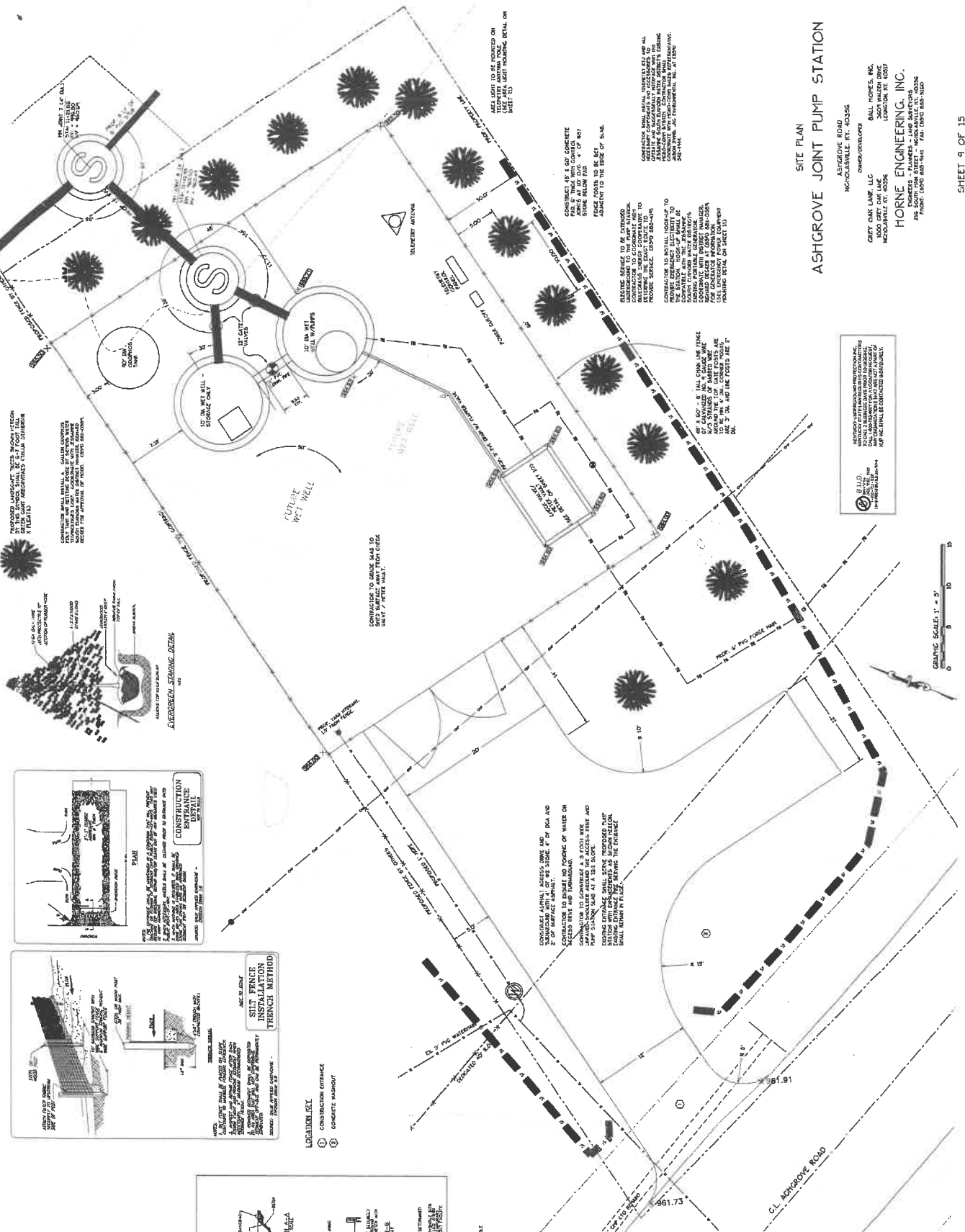
SITE PLAN

ASHGROVE ROAD
MICHIGANVILLE, MI 49756

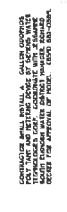
OWNER/DEVELOPER
DEPT. OF PUBLIC WORKS
MICHIGANVILLE, MI 49756

DESIGNER
HORNE ENGINEERING, INC.
215 EAST HANCOCK STREET
MICHIGANVILLE, MI 49756

SHEET 9 OF 15



PROPOSED LANDSCAPE TREES SHOWING POSITION AND SIZE OF TREES. CONTRACTOR TO PROVIDE SPECIFICATIONS AND MATERIALS AT THE TIME OF PLANTING. SEE PLAN FOR SPECIFICATIONS AND MATERIALS.



CONTRACTOR SHALL INSTALL ALL CURB AND GUTTERS TO MATCH EXISTING CONDITIONS. CONTRACTOR SHALL PROVIDE SPECIFICATIONS AND MATERIALS AT THE TIME OF PLANTING. SEE PLAN FOR SPECIFICATIONS AND MATERIALS.



CONTRACTOR TO GRADE SLOPE TO MATCH EXISTING SLOPE AND TO PROVIDE A FINISH GRADE TO MATCH EXISTING SLOPE.



CONTRACTOR TO PROVIDE SPECIFICATIONS AND MATERIALS AT THE TIME OF PLANTING. SEE PLAN FOR SPECIFICATIONS AND MATERIALS.



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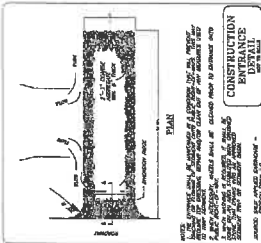
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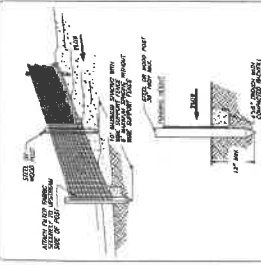
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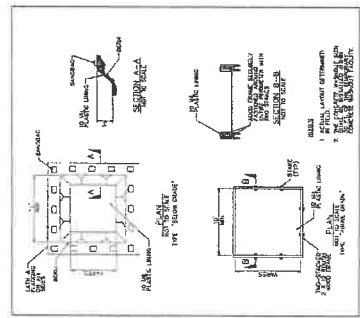
CONSTRUCTION ENTRANCE DETAIL
CONTRACTOR TO PROVIDE SPECIFICATIONS AND MATERIALS AT THE TIME OF PLANTING. SEE PLAN FOR SPECIFICATIONS AND MATERIALS.



SILT FENCE INSTALLATION TRENCH METHOD
CONTRACTOR TO PROVIDE SPECIFICATIONS AND MATERIALS AT THE TIME OF PLANTING. SEE PLAN FOR SPECIFICATIONS AND MATERIALS.

LEGEND

- ① CONSTRUCTION ENTRANCE
- ② CONCRETE WALKOUT



CONSTRUCTION ENTRANCE DETAIL
CONTRACTOR TO PROVIDE SPECIFICATIONS AND MATERIALS AT THE TIME OF PLANTING. SEE PLAN FOR SPECIFICATIONS AND MATERIALS.

PUMP STATION GENERAL NOTES:

1. DRAWINGS OF PUMP STATION PERFORM PUMPS AND CONCRETE ARE TO BE PROVIDED BY THE CONTRACTOR.
2. PROVIDE 24 INCH DIA. BALL VALVES AND REMOVABLE PIPE FOR CLEANING PURPOSES.
3. STATION PIPING, FITTINGS AND VALVES SHALL BE APPROX. 150 LB. CLASS.
4. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS.
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GRAPHIC SCALE: 1" = 5'

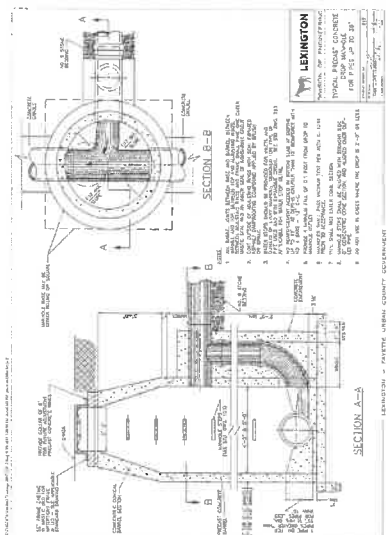
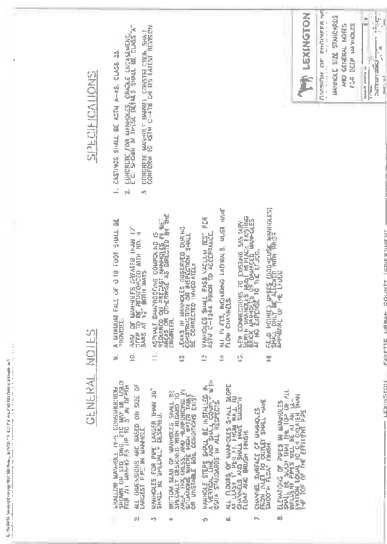
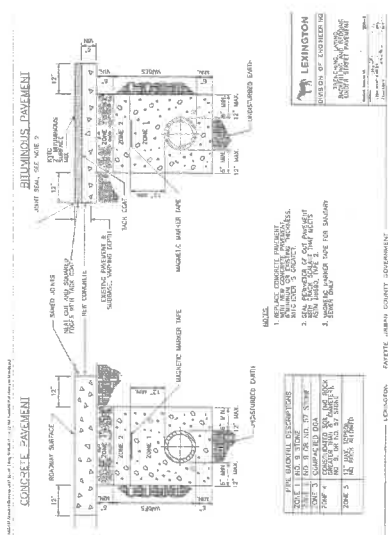
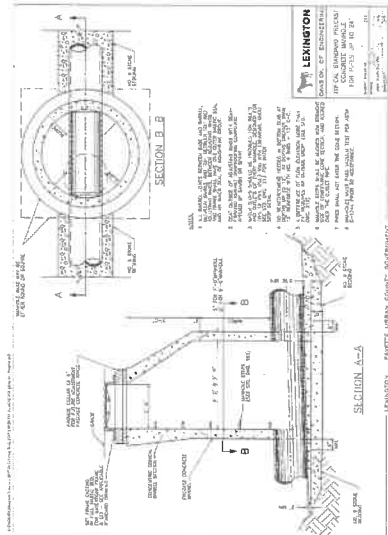
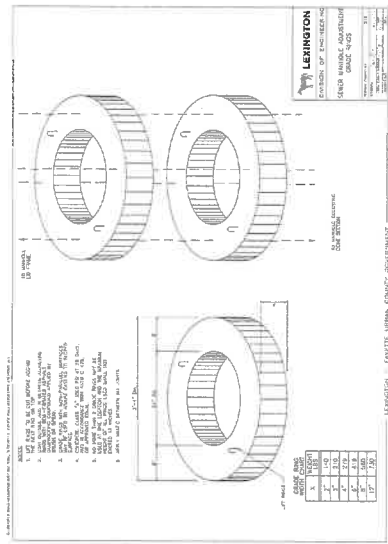
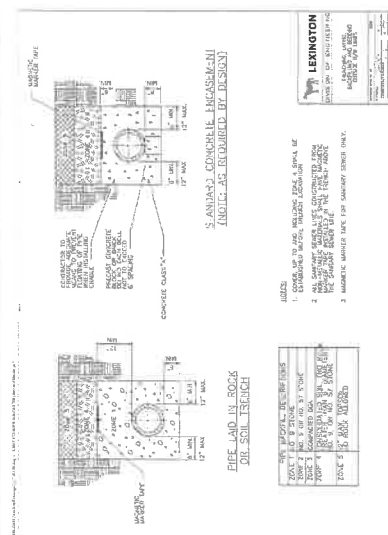
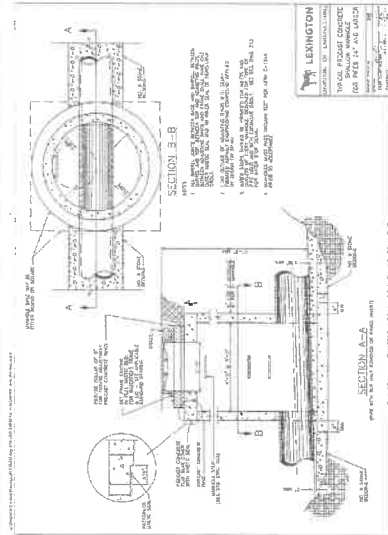
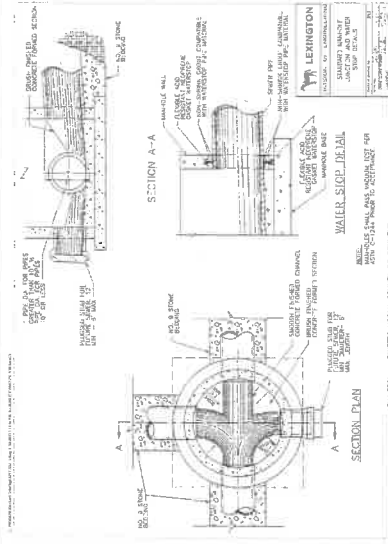


TABLE 1: MAXIMUM ALLOWABLE FILL HEIGHTS

PIPE SIZE (INCHES)	MAXIMUM ALLOWABLE FILL HEIGHT (FEET)
4	1.5
6	2.0
8	2.5
10	3.0
12	3.5
14	4.0
16	4.5
18	5.0
20	5.5
22	6.0
24	6.5
26	7.0
28	7.5
30	8.0
32	8.5
34	9.0
36	9.5
38	10.0
40	10.5
42	11.0
44	11.5
46	12.0
48	12.5
50	13.0
52	13.5
54	14.0
56	14.5
58	15.0
60	15.5
62	16.0
64	16.5
66	17.0
68	17.5
70	18.0
72	18.5
74	19.0
76	19.5
78	20.0
80	20.5
82	21.0
84	21.5
86	22.0
88	22.5
90	23.0
92	23.5
94	24.0
96	24.5
98	25.0
100	25.5

LENGTHER: PAVETTE, URBAN COUNTY GOVERNMENT

ASHGROVE JOINT DETENTION BASIN
& PUMP STATION
BALL HOMES, LLC & GREY OAK LANE, LLC
ASHGROVE ROAD, NICHOLASVILLE, KENTUCKY

HORNE ENGINEERING, INC.
ENGINEERS - PLANNERS - LAND SURVEYORS
216 SOUTH MAIN STREET
NICHOLASVILLE, KY 40356
859-885-9441 FAX 859-885-5160
EMAIL@HORNENGINE.COM

