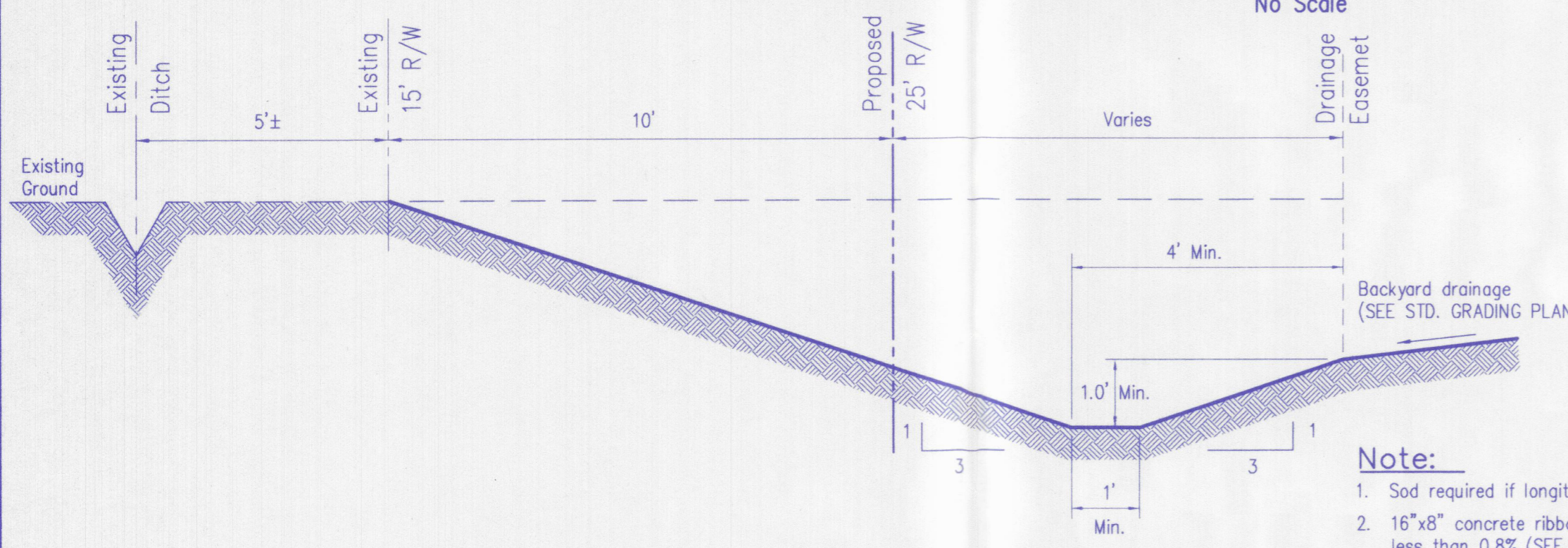


**Retention Basin Section A-A**  
No Scale

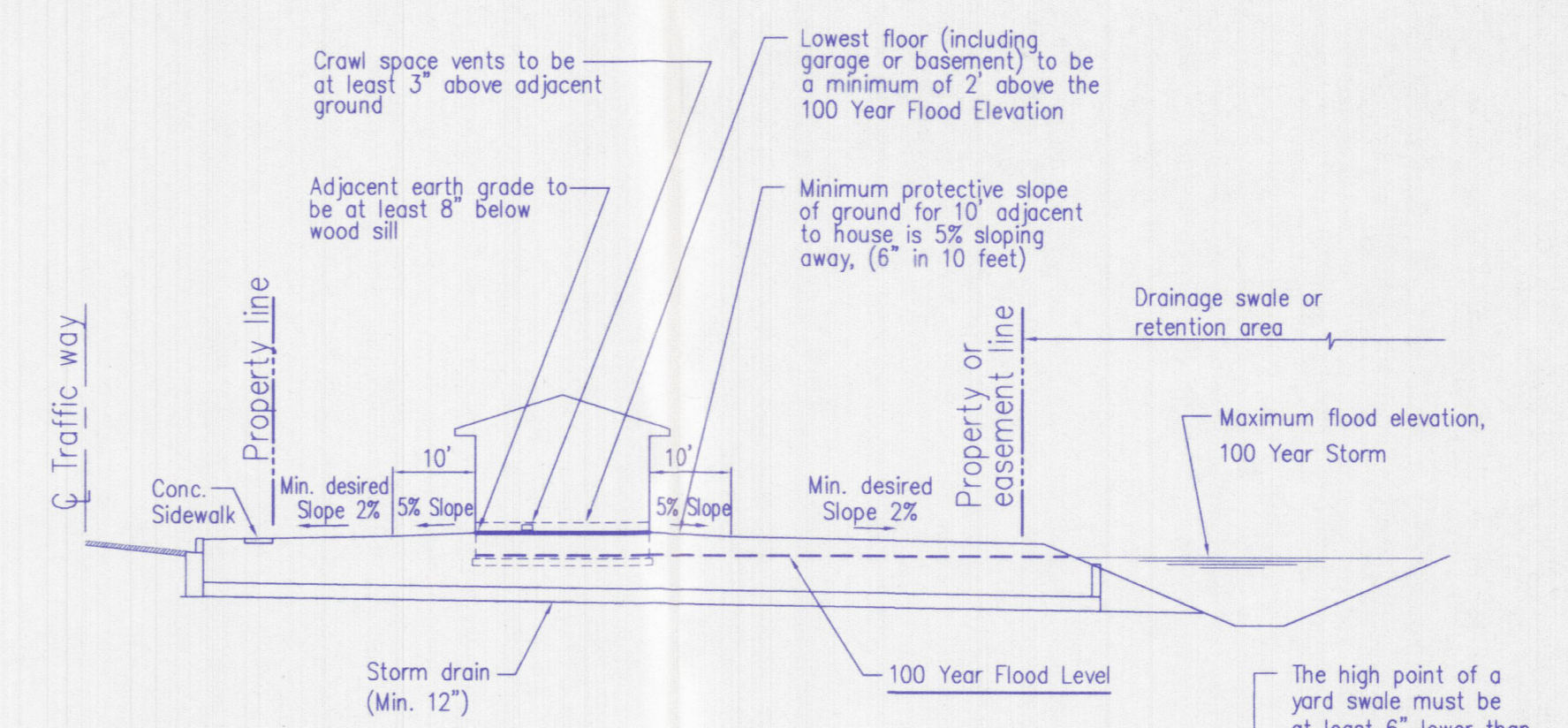


**Section C-C Drainage Swale**  
No Scale

- Note:**
- Sod required if longitudinal slope is 4% or greater.
  - 16"x8" concrete ribbon required if longitudinal slope is less than 0.8% (SEE CONCRETE RIBBON DETAIL) (SEE SWALE DATA TABLE)
  - Rip-rap or erosion control blanket required on side slopes greater than 3:1, refer to erosion/sediment control plan.



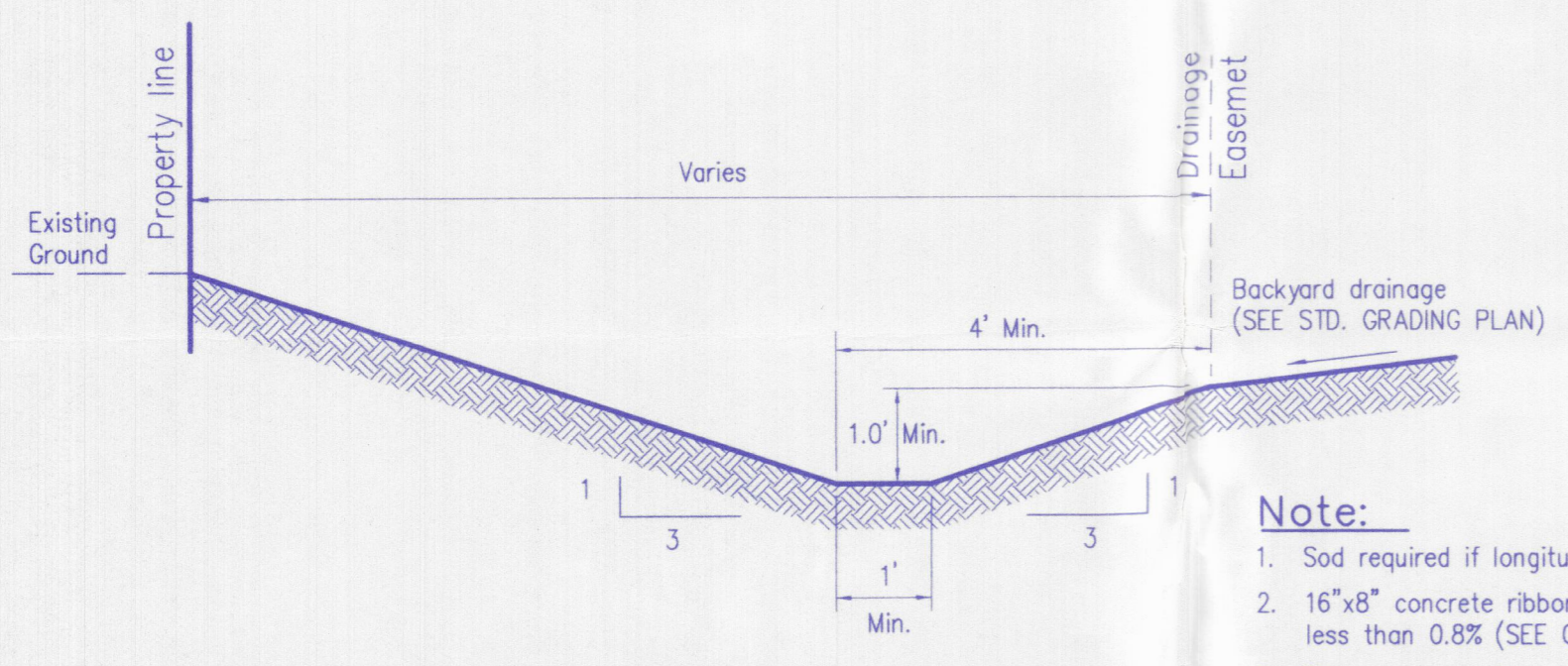
**Retention Basin Emergency Spillway**  
No Scale



**General Notes:**

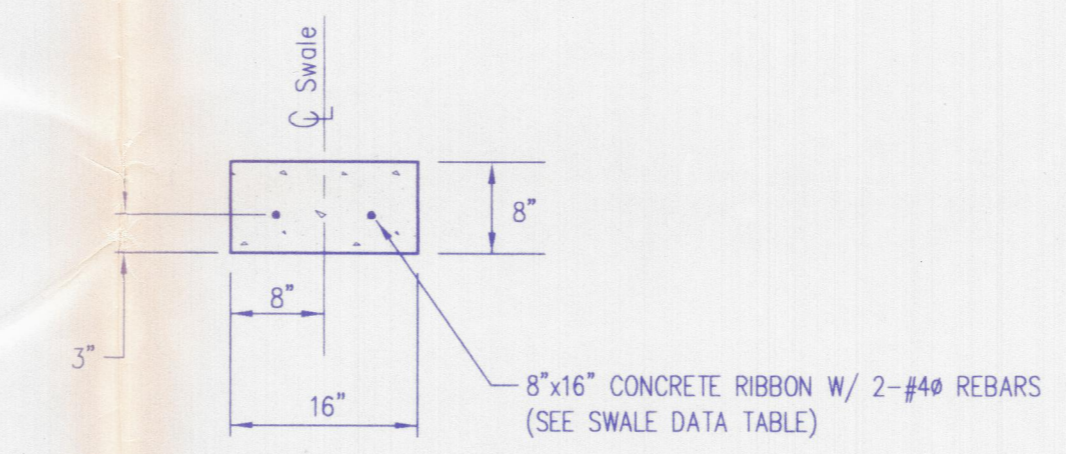
- The lowest floor elevations of any enclosed space (including the garage or basement) must be at least two feet above the 100 year flood elevation. This minimum floor elevation is called the flood protection grade (FPG). Higher finished floor elevations are required in some instances in order to provide positive drainage to swales and streets.
- Any crawl space located on a lot with FPG designation shall maintain an elevation at the lowest point in the crawl space of 0.10 feet above the 100 year flood elevation (FFE).
- Fill material for building pads for the foundations of residential structures shall be placed after stripping of topsoil and shall be compacted to 95% of the maximum density obtainable with the standard proctor method (ASTM D 698).

**Standard Grading Plan Dwelling or Accessory Structures**  
No Scale

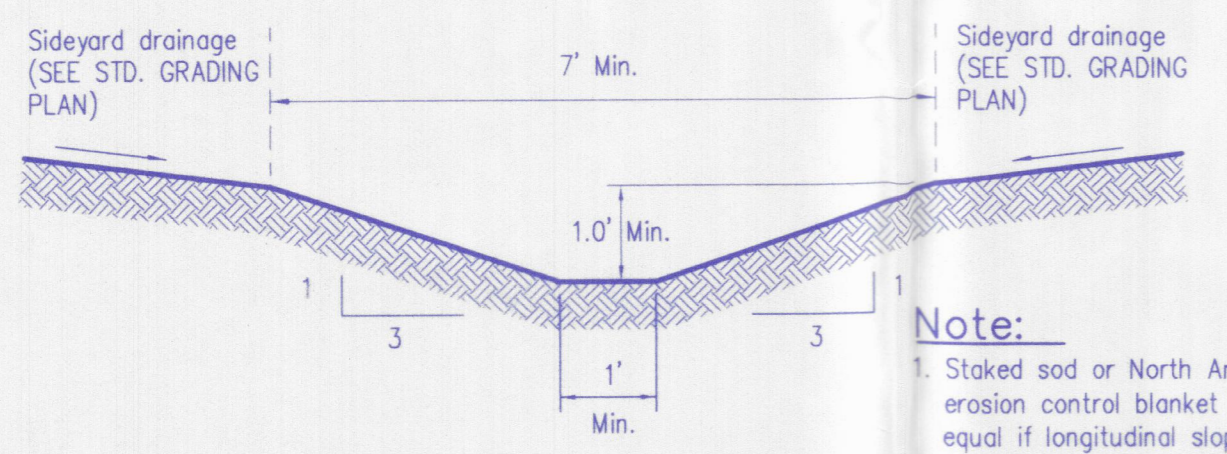


**Section B-B Drainage Swale**  
Scale: 1/2" = 1'-0"

- Note:**
- Sod required if longitudinal slope is 4% or greater.
  - 16"x8" concrete ribbon required if longitudinal slope is less than 0.8% (SEE CONCRETE RIBBON DETAIL) (SEE SWALE DATA TABLE)
  - Rip-rap or erosion control blanket required on side slopes greater than 3:1, refer to erosion/sediment control plan.

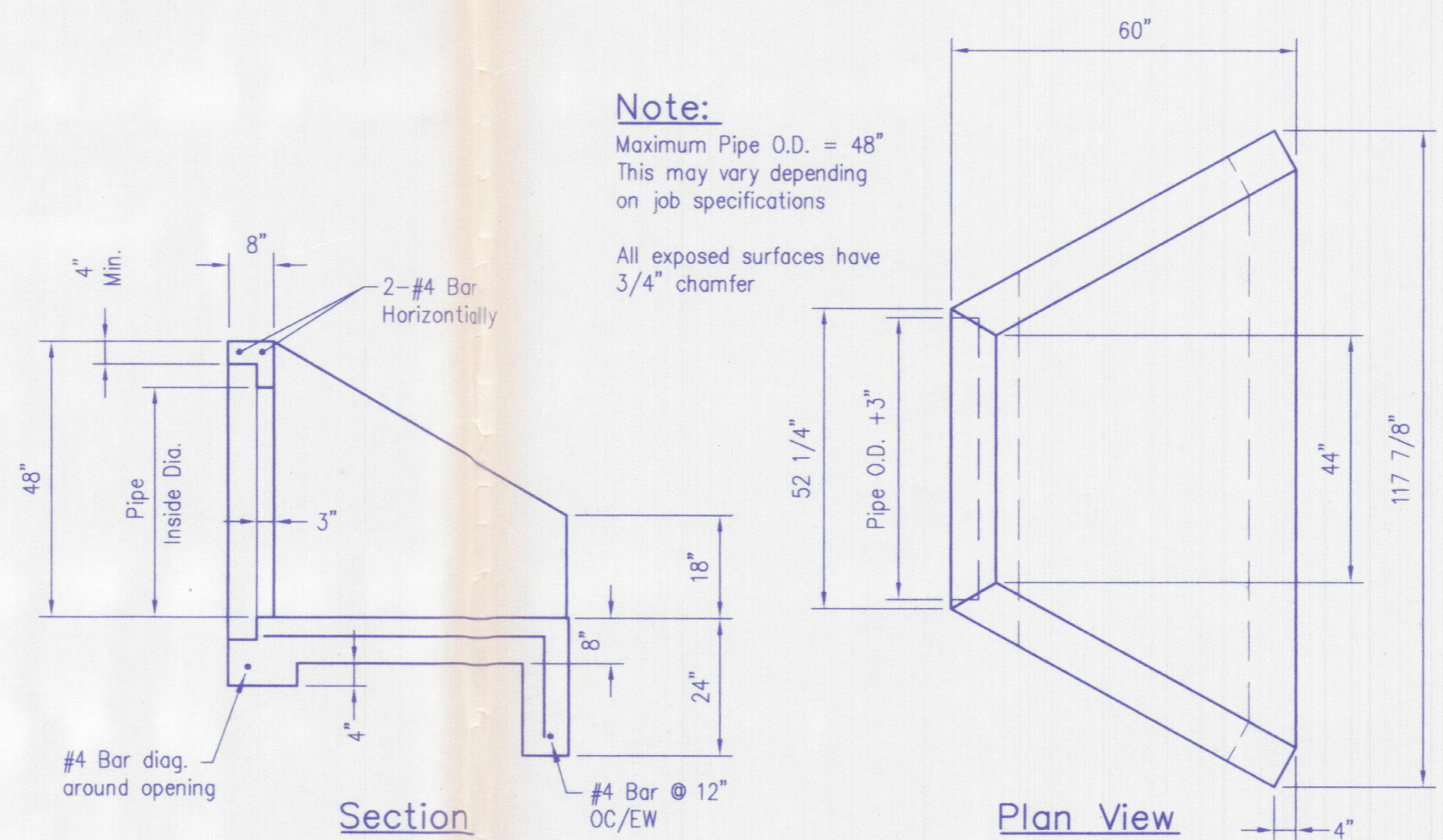


**Concrete Ribbon Detail**  
NO SCALE



**Typical Emergency Overflow Swale Cross Section**  
Scale: 1/2" = 1'-0"

- Note:**
- Staked sod or North American Green temporary erosion control blanket SC-150 or approved equal if longitudinal slope is 2% to 6%.
  - 16"x8" Concrete Ribbon required between Lots 7-8, 38-39, 52-53, and 84-85 (SEE CONCRETE RIBBON DETAIL)

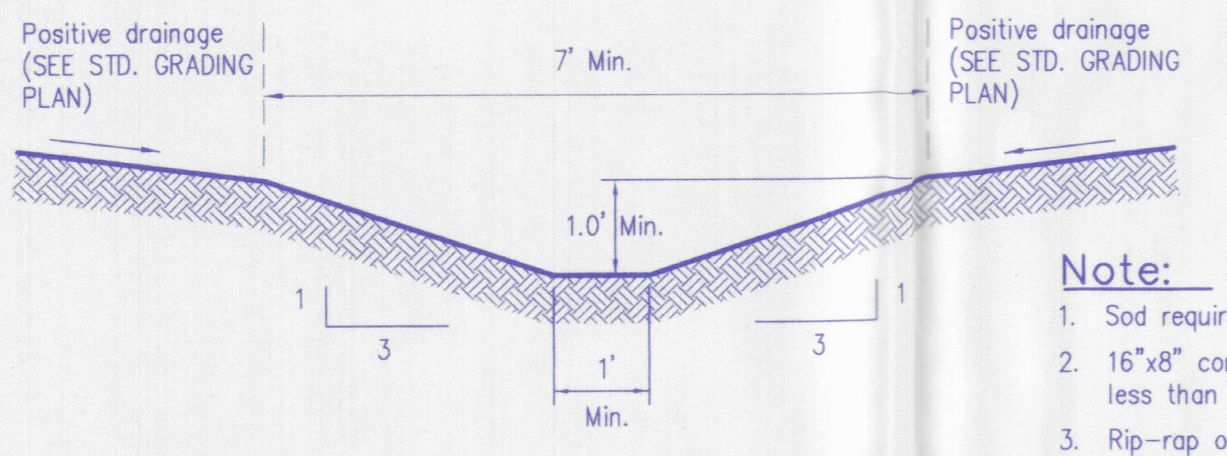


- Specifications:**
- Concrete strength - 4500 PSI @ 28 days
  - Reinforcement - ASTM A-615 & ASTM A-615M (Latest Revision), Grade 60
  - Pipe Size - RCP-C Wall ERCP & CPP 36" Max. CMP 42" Max.
  - Approx. Weight - 8,700#
  - Pipe Connect Opt. - Grout holes, pipe seal gaskets
  - Other Options - Cast Iron, Dispersion Block
  - Bedding - Minimum 6" depth stone (No. 7 or finer)
  - Flag Gate - Waterman Industries #10, or equivalent if required. (See Utility/Drainage Plan)

**Pipe Culvert Headwall**  
NO SCALE

BUILDING PAD ELEVATION TABLE			
LOT NUMBER	PAD ELEVATION	LOT NUMBER	PAD ELEVATION
LOT 1	408.2	LOT 47	397.3
LOT 2	405.8	LOT 48	397.0
LOT 3	403.2	LOT 49	397.0
LOT 4	400.9	LOT 50	397.4
LOT 5	399.2	LOT 51	396.7
LOT 6	398.1	LOT 52	396.6
LOT 7	397.6	LOT 53	396.6
LOT 8	397.6	LOT 54	396.6
LOT 9	398.5	LOT 55	397.1
LOT 10	399.1	LOT 56	397.7
LOT 11	399.5	LOT 57	398.2
LOT 12	399.9	LOT 58	399.0
LOT 13	401.3	LOT 59	399.1
LOT 14	402.4	LOT 60	399.2
LOT 15	402.9	LOT 61	400.0
LOT 16	403.5	LOT 62	401.2
LOT 17	404.1	LOT 63	402.7
LOT 18	404.7	LOT 64	404.2
LOT 19	405.5	LOT 65	405.7
LOT 20	406.4	LOT 66	407.4
LOT 21	407.8	LOT 67	409.3
LOT 22	409.4	LOT 68	411.5
LOT 23	411.0	LOT 69	411.0
LOT 24	411.9	LOT 70	409.4
LOT 25	412.0	LOT 71	407.6
LOT 26	412.0	LOT 72	404.2
LOT 27	411.9	LOT 73	403.3
LOT 28	411.0	LOT 74	402.5
LOT 29	409.2	LOT 75	401.6
LOT 30	407.3	LOT 76	401.1
LOT 31	405.7	LOT 77	400.5
LOT 32	404.1	LOT 78	399.8
LOT 33	402.6	LOT 79	400.2
LOT 34	401.1	LOT 80	399.8
LOT 35	400.0	LOT 81	399.4
LOT 36	399.1	LOT 82	399.1
LOT 37	397.5	LOT 83	398.5
LOT 38	396.8	LOT 84	397.6
LOT 39	396.6	LOT 85	397.6
LOT 40	397.3	LOT 86	398.1
LOT 41	397.8	LOT 87	399.2
LOT 42	398.0	LOT 88	400.9
LOT 43	398.0	LOT 89	403.2
LOT 44	397.6	LOT 90	405.8
LOT 45	397.3	LOT 91	408.3
LOT 46	396.6		

**Note:**  
Building Pad is a minimum 50' x 50' centered in the Lot and beginning at the Building Setback Line



**Typical Swale Cross Section**  
Scale: 1/2" = 1'-0"

- Note:**
- Sod required if longitudinal slope is 4% or greater.
  - 16"x8" concrete ribbon required if longitudinal slope is less than 0.8% (SEE CONCRETE RIBBON DETAIL) (SEE SWALE DATA TABLE)
  - Rip-rap or erosion control blanket required on side slopes greater than 3:1, refer to erosion/sediment control plan.

**Morley and Associates, Inc.**  
Consulting Engineers/Surveyors/Architects  
600 S.E. Sixth Street  
Evansville, Indiana 47713  
(812) 464-9585

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Revisions	Description	Date	By

RONALD S. LONDON  
REGISTERED  
No. PE 10101229  
STATE OF INDIANA  
PROFESSIONAL ENGINEER  
R.S.L.

Project: Asbury Pointe  
A Development by Jagoe Land Corporation  
Sheet Title: Drainage/Grading Details  
Scale: As Shown  
Designed By: R.S.L. Job Number: 5540-4(B)  
Drawn By: G.A.M. Date: 2/05/04  
Filename: J:\5540\Civil\DrainGradingDetails.dwg  
Sheet Number: C-11

C-11  
of 15