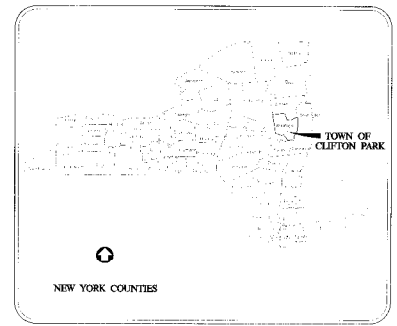


**SITE LOCATION MAP**  
NOT TO SCALE

# LONGKILL SUBDIVISION

## LONGKILL ROAD

### TOWN OF CLIFTON PARK, SARATOGA COUNTY



**GENERAL LOCATION MAP**  
NOT TO SCALE



SHEET ID	SHEET NO.	TITLE
TS	1	TITLE SHEET
SP	2	SUBDIVISION PLAN
SG	3	SITE GRADING PLAN
PP1	4	PLAN / PROFILE K&N TERRACE
PP2	5	PLAN / PROFILE DHARA COURT & YOGI COURT
PP3	6	PLAN / PROFILE OFFSITE SANITARY SEWER
ESC1	7	EROSION & SEDIMENT CONTROL PLAN
ESC2	8	EROSION & SEDIMENT CONTROL DETAILS
DET1	9	WATER DISTRIBUTION DETAILS
DET2	10	SANITARY SEWER DETAILS
DET3	11	SANITARY SEWER, TRENCHING, PIPE BEDDING AND BACKFILL DETAILS
DET4	12	STORM SEWER DETAILS
DET5	13	MISCELLANEOUS DETAILS
DET6	14	MULTI-USE PATH DETAILS
DET7	15	SANITARY SEWER BORING PLAN & DETAILS
N1	16	UTILITY NOTES
N2	17	UTILITY NOTES

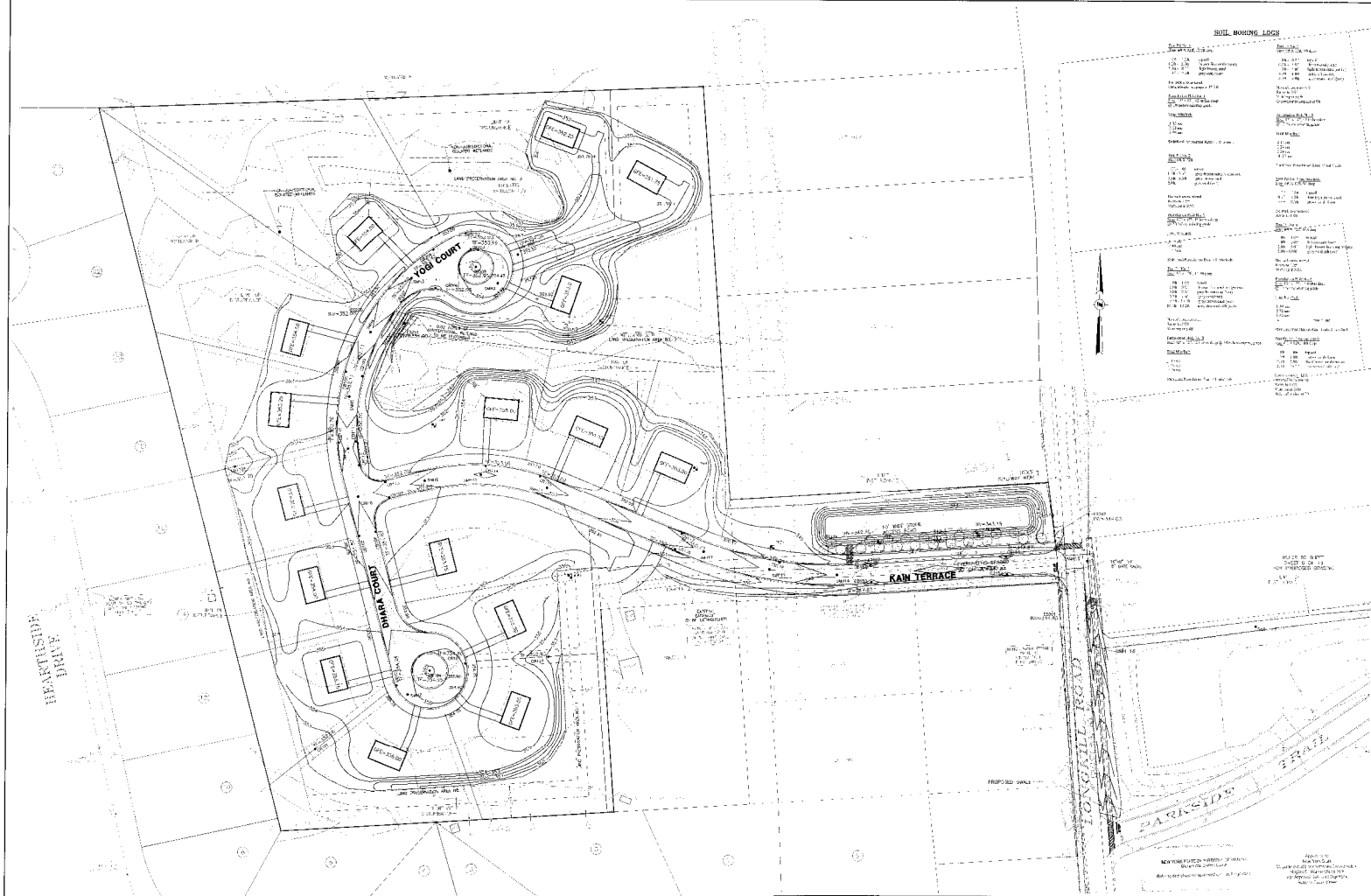
and by the Division of the Planning Board of the Town of Clifton Park, New York, on the 15th day of August, 2018, in accordance with the provisions of the State Sanitary Code, Chapter 275, Section 275.1, and the provisions of the State Sanitary Code, Chapter 275, Section 275.2, the following conditions shall be observed:

NEW YORK STATE DEPARTMENT OF HEALTH  
DESIGNATED PROJECT OFFICE  
Date: 8/15/2018  
Town of Clifton Park  
Sanitary Engineer: [Signature]  
By: [Signature]  
For the State Commissioner of Health

DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: 8/15/2018  
C.T. MALE ASSOCIATES  
100 CANTON ROAD, SUITE 100  
CLIFTON PARK, NY 12018  
PHONE: 518-352-1111  
FAX: 518-352-1112  
WWW.CTMALE.COM

	NAME	JOHN R. STENGER	EXPIRES	12/31/2020	STATUS	ACTIVE
	ADDRESS	100 CANTON ROAD, SUITE 100 CLIFTON PARK, NY 12018	PHONE	518-352-1111	FAX	518-352-1112
<p><b>TITLE SHEET</b></p> <p><b>LONGKILL SUBDIVISION</b></p> <p>TOWN OF CLIFTON PARK, SARATOGA COUNTY, NEW YORK</p> <p><b>C.T. MALE ASSOCIATES</b> 100 CANTON ROAD, SUITE 100 CLIFTON PARK, NY 12018 PHONE: 518-352-1111 FAX: 518-352-1112 WWW.CTMALE.COM</p> <p><b>TS</b> SHEET 01 OF 17 DATE: 08-15-2018</p>						





**SOIL BORING LOGS**

BORING NO.	DEPTH (FEET)	SOIL DESCRIPTION	REMARKS
1	0-10	Topsoil	
1	10-15	Light gray clay	
1	15-20	Medium gray clay	
1	20-25	Dark gray clay	
1	25-30	Black clay	
1	30-35	Black clay	
1	35-40	Black clay	
1	40-45	Black clay	
1	45-50	Black clay	
1	50-55	Black clay	
1	55-60	Black clay	
1	60-65	Black clay	
1	65-70	Black clay	
1	70-75	Black clay	
1	75-80	Black clay	
1	80-85	Black clay	
1	85-90	Black clay	
1	90-95	Black clay	
1	95-100	Black clay	

	<b>DATE</b>	08/15/2018	<b>SCALE</b>	AS SHOWN
	<b>PROJECT</b>	LONGKILL SUBDIVISION	<b>CLIENT</b>	C.T. MALE ASSOCIATES
	<b>DESIGNER</b>	JOHN R. STOVER	<b>CHECKED</b>	JOHN R. STOVER
	<b>DATE</b>	08/15/2018	<b>PROJECT NO.</b>	18-001
	<b>SCALE</b>	AS SHOWN	<b>DATE</b>	08/15/2018

**SITE GRADING PLAN**

**LONGKILL SUBDIVISION**

**C.T. MALE ASSOCIATES**  
 Engineering, Planning, Architecture & Construction, P.A.  
 1000 W. MARKET STREET, SUITE 200  
 PHILADELPHIA, PA 19107  
 (215) 562-1100

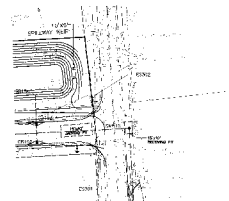
**SG**  
 SHEET 1 OF 17  
 DATE: 08/15/2018



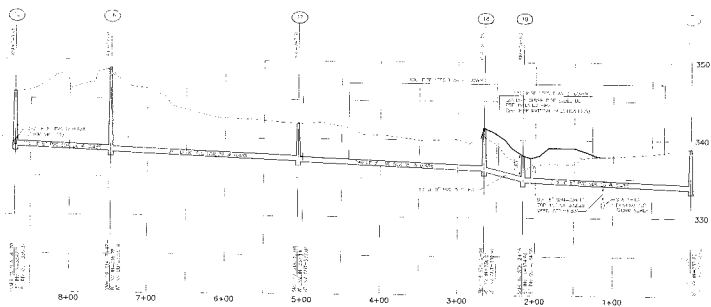




**PLAN VIEW  
OFFSITE SANITARY SEWER**  
SCALE: 1" = 40'  
DATE: 11/11/2014



**LONGKILL ROAD  
BORING/JACKING PLAN**  
SCALE: 1" = 40'  
DATE: 11/11/2014



**PROFILE  
OFFSITE SANITARY SEWER**  
SCALE: 1" = 10'  
DATE: 11/11/2014

- MANHOLE TYPES**
- 1 IMPROVED CAST IRON
  - 2 IMPROVED POLYESTER
  - 3 IMPROVED INHIBIT
  - 4 IMPROVED SANDWICH MANHOLE
  - 5 IMPROVED WASTE HOLE
  - 6 IMPROVED WATER LINE
  - 7 IMPROVED SANITARY LINE
  - 8 IMPROVED CHARGE LINE
  - 9 IMPROVED JOINT MANHOLE
- EXISTING UTILITIES**
- 10 EXISTING WATER MAIN
  - 11 EXISTING SANITARY MAIN
  - 12 EXISTING FIBER OPTIC
  - 13 EXISTING POWER MAIN
  - 14 EXISTING GAS MAIN
- DESIGN NOTATIONS**
- 15 IMPROVED 30" DIA. 15' DEPTH
  - 16 IMPROVED 36" DIA. 15' DEPTH
  - 17 IMPROVED 42" DIA. 15' DEPTH
  - 18 IMPROVED 48" DIA. 15' DEPTH
  - 19 IMPROVED 54" DIA. 15' DEPTH
  - 20 IMPROVED 60" DIA. 15' DEPTH
  - 21 IMPROVED 66" DIA. 15' DEPTH
  - 22 IMPROVED 72" DIA. 15' DEPTH
  - 23 IMPROVED 78" DIA. 15' DEPTH
  - 24 IMPROVED 84" DIA. 15' DEPTH
  - 25 IMPROVED 90" DIA. 15' DEPTH
  - 26 IMPROVED 96" DIA. 15' DEPTH
  - 27 IMPROVED 102" DIA. 15' DEPTH
  - 28 IMPROVED 108" DIA. 15' DEPTH
  - 29 IMPROVED 114" DIA. 15' DEPTH
  - 30 IMPROVED 120" DIA. 15' DEPTH

**NOTES:**

1. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING SANITARY SEWER SYSTEM AND HAS FOUND IT TO BE IN GOOD CONDITION.
2. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING WATER MAIN SYSTEM AND HAS FOUND IT TO BE IN GOOD CONDITION.
3. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING FIBER OPTIC SYSTEM AND HAS FOUND IT TO BE IN GOOD CONDITION.
4. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING POWER MAIN SYSTEM AND HAS FOUND IT TO BE IN GOOD CONDITION.
5. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING GAS MAIN SYSTEM AND HAS FOUND IT TO BE IN GOOD CONDITION.

**NOTES FOR THE CONTRACTOR:**

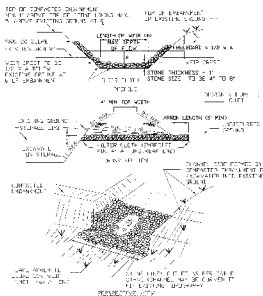
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE QUALITY OF THE WORK.

	DATE	11/11/2014	PROJECT	LONGKILL ROAD BORING/JACKING PLAN	SCALE	1" = 40'	DATE	11/11/2014
	DESIGNER	C.T. MALE	CHECKER	C.T. MALE	DATE	11/11/2014	DATE	11/11/2014
<p align="center"><b>PLAN &amp; PROFILE OFFSITE SANITARY SEWER</b></p> <p align="center">LONGKILL SUBDIVISION</p> <p align="center">C.T. MALE ASSOCIATES, INC.</p> <p align="center">10000 100TH AVENUE, SUITE 100 ROSELAND, NEW YORK 11423</p> <p align="center">PHONE: 754-200-1000 FAX: 754-200-1001 WWW.CTMALE.COM</p>								

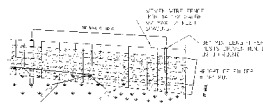


GENERAL NOTES:

1. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE BOUND BY THE TERMS AND CONDITIONS OF THE CONTRACT DOCUMENTS, INCLUDING THE SPECIFICATIONS AND THE STANDARD CONDITIONS OF CONTRACT, WHICH ARE INCORPORATED BY REFERENCE INTO THIS CONTRACT.
2. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES. ANY OBSTRUCTION OF ACCESS SHALL BE REMOVED IMMEDIATELY UPON NOTICE.
4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE SPECIFIED. ANY NECESSARY REPAIRS OR REPLACEMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING CURBS, SIDEWALKS, AND DRIVEWAYS UNLESS OTHERWISE SPECIFIED. ANY NECESSARY REPAIRS OR REPLACEMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAYS AND SIDEWALKS UNLESS OTHERWISE SPECIFIED. ANY NECESSARY REPAIRS OR REPLACEMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAYS AND SIDEWALKS UNLESS OTHERWISE SPECIFIED. ANY NECESSARY REPAIRS OR REPLACEMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAYS AND SIDEWALKS UNLESS OTHERWISE SPECIFIED. ANY NECESSARY REPAIRS OR REPLACEMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAYS AND SIDEWALKS UNLESS OTHERWISE SPECIFIED. ANY NECESSARY REPAIRS OR REPLACEMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRIVEWAYS AND SIDEWALKS UNLESS OTHERWISE SPECIFIED. ANY NECESSARY REPAIRS OR REPLACEMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.



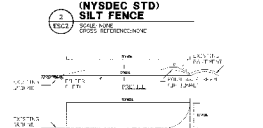
(INVSDEC STD) RIPRAP OUTLET SEDIMENT TRAP



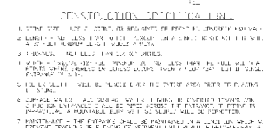
(INVSDEC STD) RIPRAP OUTLET SEDIMENT TRAP



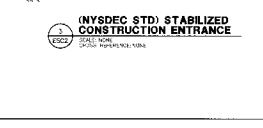
(INVSDEC STD) RIPRAP OUTLET SEDIMENT TRAP



(INVSDEC STD) RIPRAP OUTLET SEDIMENT TRAP



(INVSDEC STD) RIPRAP OUTLET SEDIMENT TRAP



(INVSDEC STD) RIPRAP OUTLET SEDIMENT TRAP

RIPRAP OUTLET SEDIMENT TRAP (BY STONE LINED CHANNEL)

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	18" DIA. CONCRETE PIPE	100	LINEAL FEET
2	18" DIA. CONCRETE MANHOLE	1	NO.
3	18" DIA. CONCRETE CATCH BASIN	1	NO.
4	18" DIA. CONCRETE END WALL	1	NO.
5	18" DIA. CONCRETE END WALL	1	NO.
6	18" DIA. CONCRETE END WALL	1	NO.
7	18" DIA. CONCRETE END WALL	1	NO.
8	18" DIA. CONCRETE END WALL	1	NO.
9	18" DIA. CONCRETE END WALL	1	NO.
10	18" DIA. CONCRETE END WALL	1	NO.
11	18" DIA. CONCRETE END WALL	1	NO.
12	18" DIA. CONCRETE END WALL	1	NO.
13	18" DIA. CONCRETE END WALL	1	NO.
14	18" DIA. CONCRETE END WALL	1	NO.
15	18" DIA. CONCRETE END WALL	1	NO.
16	18" DIA. CONCRETE END WALL	1	NO.
17	18" DIA. CONCRETE END WALL	1	NO.
18	18" DIA. CONCRETE END WALL	1	NO.
19	18" DIA. CONCRETE END WALL	1	NO.
20	18" DIA. CONCRETE END WALL	1	NO.

CONSTRUCTION SPECIFICATION FOR STONE OUTLET SEDIMENT TRAP

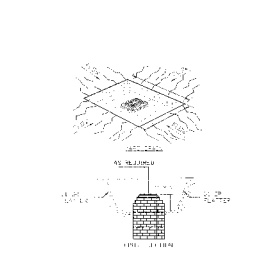
1. THE TRAP SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR STONE LINED CHANNELS.
2. THE TRAP SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.
3. THE TRAP SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE CATCH BASIN AND 18" DIA. CONCRETE END WALLS.
4. THE TRAP SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE END WALLS AND 18" DIA. CONCRETE END WALLS.
5. THE TRAP SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE END WALLS AND 18" DIA. CONCRETE END WALLS.
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9. THE TRAP SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE END WALLS AND 18" DIA. CONCRETE END WALLS.
10. THE TRAP SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE END WALLS AND 18" DIA. CONCRETE END WALLS.

INDIVIDUAL LOT CONSTRUCTION:

1. INSTALL SILT FENCE ALONG PERIMETER OF SITE OR SITES IF MAINTAINING EXISTING VEGETATION.
2. INSTALL STORMWATER COLLECTION SYSTEMS FOR EACH LOT.
3. AFTER A SILT FENCE IS COMPLETED ON LOT, SILENT WORK SHALL BE COMPLETED ON THE LOT TO PREVENT WORK FROM BEING OBSERVED FROM ADJACENT PROPERTIES.
4. AFTER SILENT WORK IS COMPLETED ON THE LOT, SILENT WORK SHALL BE COMPLETED ON THE LOT TO PREVENT WORK FROM BEING OBSERVED FROM ADJACENT PROPERTIES.
5. AFTER SILENT WORK IS COMPLETED ON THE LOT, SILENT WORK SHALL BE COMPLETED ON THE LOT TO PREVENT WORK FROM BEING OBSERVED FROM ADJACENT PROPERTIES.

SEDIMENT TRAP DESIGN:

1. CONSTRUCTION AND CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES TO PREVENT EROSION AND SEDIMENTATION. THE TRAP SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.
2. CONSTRUCTION AND CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES TO PREVENT EROSION AND SEDIMENTATION. THE TRAP SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.



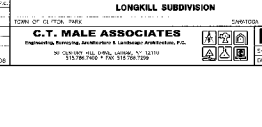
(INVSDEC STD) CATCH BASIN SEDIMENT TRAP



(INVSDEC STD) CATCH BASIN SEDIMENT TRAP



(INVSDEC STD) CATCH BASIN SEDIMENT TRAP



(INVSDEC STD) CATCH BASIN SEDIMENT TRAP



(INVSDEC STD) CATCH BASIN SEDIMENT TRAP

STABILIZED CONSTRUCTION ENTRANCE NOTES:

1. THE ENTRANCE SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.
2. THE ENTRANCE SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.
3. THE ENTRANCE SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.
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10. THE ENTRANCE SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.

SILT FENCE NOTES:

1. THE SILT FENCE SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.
2. THE SILT FENCE SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.
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10. THE SILT FENCE SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" DIA. CONCRETE PIPE AND 18" DIA. CONCRETE MANHOLES.

MULCHING & SEEDING NOTES:

1. MULCHING AND SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE COMPLETION OF THE CONSTRUCTION.
2. MULCHING AND SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE COMPLETION OF THE CONSTRUCTION.
3. MULCHING AND SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE COMPLETION OF THE CONSTRUCTION.
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9. MULCHING AND SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE COMPLETION OF THE CONSTRUCTION.
10. MULCHING AND SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE COMPLETION OF THE CONSTRUCTION.

RECOMMENDED SEED MIXTURE FOR REVEGETATION OF DISTURBED AREAS

SEEDING RATE	SEEDING RATE	SEEDING RATE
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.
1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.	1.00 LB./1,000 SQ. FT.

(INVSDEC STD) STABILIZED CONSTRUCTION ENTRANCE



(INVSDEC STD) STABILIZED CONSTRUCTION ENTRANCE



(INVSDEC STD) STABILIZED CONSTRUCTION ENTRANCE



(INVSDEC STD) STABILIZED CONSTRUCTION ENTRANCE



(INVSDEC STD) STABILIZED CONSTRUCTION ENTRANCE



(INVSDEC STD) STABILIZED CONSTRUCTION ENTRANCE



DATE	REVISIONS	REVISION DESCRIPTION	REVISION NO.	BY	DATE
10/10/10	1	ISSUED FOR PERMIT	1	JRB	10/10/10
10/10/10	2	REVISED TO SHOW CHANGES	2	JRB	10/10/10
10/10/10	3	REVISED TO SHOW CHANGES	3	JRB	10/10/10
10/10/10	4	REVISED TO SHOW CHANGES	4	JRB	10/10/10
10/10/10	5	REVISED TO SHOW CHANGES	5	JRB	10/10/10
10/10/10	6	REVISED TO SHOW CHANGES	6	JRB	10/10/10
10/10/10	7	REVISED TO SHOW CHANGES	7	JRB	10/10/10
10/10/10	8	REVISED TO SHOW CHANGES	8	JRB	10/10/10
10/10/10	9	REVISED TO SHOW CHANGES	9	JRB	10/10/10
10/10/10	10	REVISED TO SHOW CHANGES	10	JRB	10/10/10

**EROSION & SEDIMENT CONTROL DETAILS**

**LONKILL SUBDIVISION**

**C.T. MALE ASSOCIATES**

**ESC2**

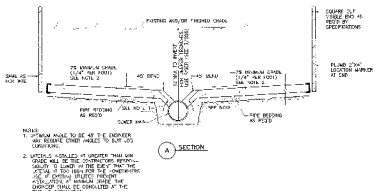
DATE: 10/10/10

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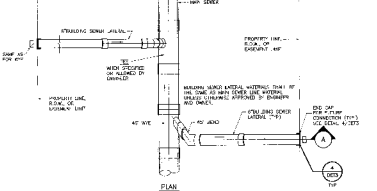




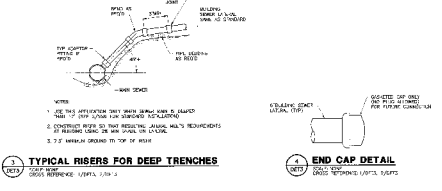




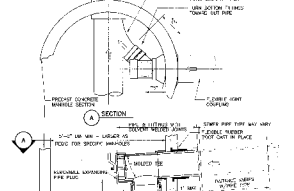
1 STANDARD SEWER SERVICE CONNECTION SECTION  
SDR 26/35 1/2001 2/001



2 STANDARD SEWER SERVICE CONNECTION PLAN  
SDR 26/35 1/2001 2/001



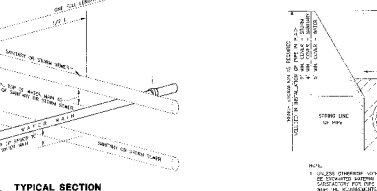
3 TYPICAL RISERS FOR DEEP TRENCHES  
SDR 26/35 1/2001 2/001



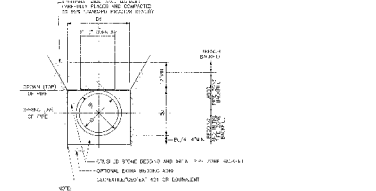
4 END CAP DETAIL  
SDR 26/35 1/2001 2/001



5 RESTRAINING STRAP  
SDR 26/35 1/2001 2/001



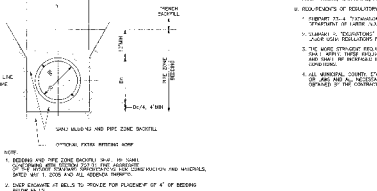
6 TYPICAL SECTION WATER / SEWER CROSSING  
SDR 26/35 1/2001 2/001



7 TYPICAL TRENCH DETAIL  
SDR 26/35 1/2001 2/001



8 GRAVITY SANITARY SEWER AND STORM SEWER SDR 26/35 PVC PIPE BEDDING AND BACKFILL  
SDR 26/35 1/2001 2/001



9 SANITARY SEWER - SDR 26 PVC PRESSURE PIPE BEDDING AND BACKFILL  
SDR 26/35 1/2001 2/001

POLYMER CHLORIDE PIP (SDR 26)

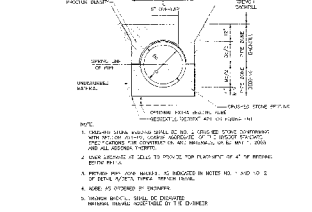
PIPE DIMENSIONS	TRENCH DIMENSIONS			
	MINIMUM	MINIMUM	MINIMUM	MINIMUM
4" DIA. x 1.315" WALL THICKNESS	12"	12"	12"	12"
6" DIA. x 1.315" WALL THICKNESS	18"	18"	18"	18"
8" DIA. x 1.315" WALL THICKNESS	24"	24"	24"	24"
10" DIA. x 1.315" WALL THICKNESS	30"	30"	30"	30"
12" DIA. x 1.315" WALL THICKNESS	36"	36"	36"	36"
15" DIA. x 1.315" WALL THICKNESS	45"	45"	45"	45"
18" DIA. x 1.315" WALL THICKNESS	54"	54"	54"	54"
24" DIA. x 1.315" WALL THICKNESS	72"	72"	72"	72"
30" DIA. x 1.315" WALL THICKNESS	90"	90"	90"	90"

POLYMER CHLORIDE PIP (SDR 20)

PIPE DIMENSIONS	TRENCH DIMENSIONS			
	MINIMUM	MINIMUM	MINIMUM	MINIMUM
4" DIA. x 1.315" WALL THICKNESS	12"	12"	12"	12"
6" DIA. x 1.315" WALL THICKNESS	18"	18"	18"	18"
8" DIA. x 1.315" WALL THICKNESS	24"	24"	24"	24"
10" DIA. x 1.315" WALL THICKNESS	30"	30"	30"	30"
12" DIA. x 1.315" WALL THICKNESS	36"	36"	36"	36"
15" DIA. x 1.315" WALL THICKNESS	45"	45"	45"	45"
18" DIA. x 1.315" WALL THICKNESS	54"	54"	54"	54"
24" DIA. x 1.315" WALL THICKNESS	72"	72"	72"	72"
30" DIA. x 1.315" WALL THICKNESS	90"	90"	90"	90"



10 WATER MAIN - CLSO DUCTILE IRON PIPE BEDDING AND BACKFILL  
SDR 26/35 1/2001 2/001



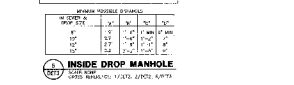
11 STORM SEWER - CORRUGATED HDPE PIPE BEDDING AND BACKFILL  
SDR 26/35 1/2001 2/001

GENERAL NOTES

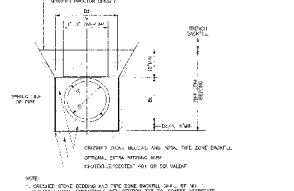
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF ALL BEDDING AND BACKFILL MATERIALS AND METHODS.
2. THE BEDDING AND BACKFILL SHALL BE COMPACTED TO THE PROPER DENSITY AND MOISTURE CONTENT.
3. THE BEDDING AND BACKFILL SHALL BE COMPACTED TO THE PROPER DENSITY AND MOISTURE CONTENT.
4. THE BEDDING AND BACKFILL SHALL BE COMPACTED TO THE PROPER DENSITY AND MOISTURE CONTENT.

PIPE DIMENSIONS

PIPE DIMENSIONS	TRENCH DIMENSIONS
4" DIA. x 1.315" WALL THICKNESS	12" x 12" x 12"
6" DIA. x 1.315" WALL THICKNESS	18" x 18" x 18"
8" DIA. x 1.315" WALL THICKNESS	24" x 24" x 24"
10" DIA. x 1.315" WALL THICKNESS	30" x 30" x 30"
12" DIA. x 1.315" WALL THICKNESS	36" x 36" x 36"
15" DIA. x 1.315" WALL THICKNESS	45" x 45" x 45"
18" DIA. x 1.315" WALL THICKNESS	54" x 54" x 54"
24" DIA. x 1.315" WALL THICKNESS	72" x 72" x 72"
30" DIA. x 1.315" WALL THICKNESS	90" x 90" x 90"



12 INSIDE DROP MANHOLE  
SDR 26/35 1/2001 2/001



13 STORM SEWER - CORRUGATED HDPE PIPE BEDDING AND BACKFILL  
SDR 26/35 1/2001 2/001



DATE	REVISIONS (NO./DATE/DESCRIPTION)	DESIGNER	CHECKER	APPROVER
10/2/2001	1. INITIAL DESIGN			
10/15/2001	2. REVISED DESIGN			
10/25/2001	3. FINAL DESIGN			

**SANITARY SEWER, TRENCHING, PIPE BEDDING AND BACKFILL DETAILS**

LONGKILL SUBDIVISION

TOWN OF CUTTON HOLE

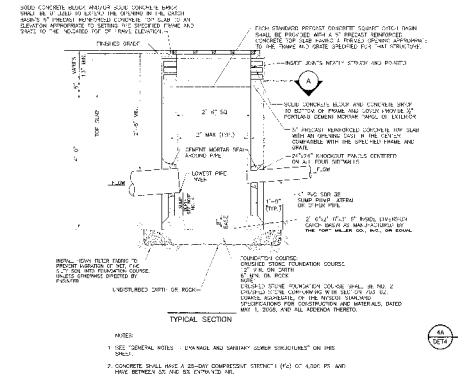
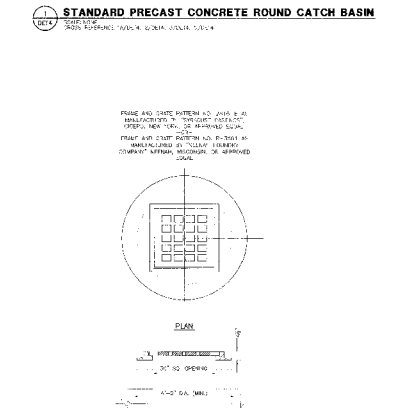
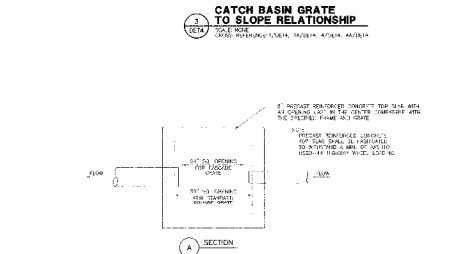
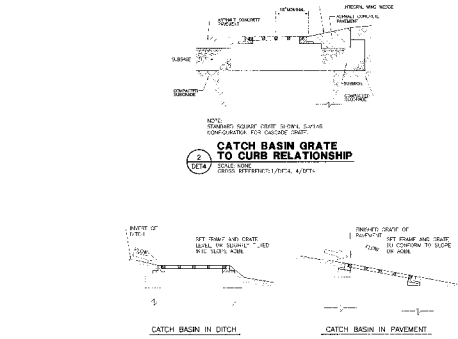
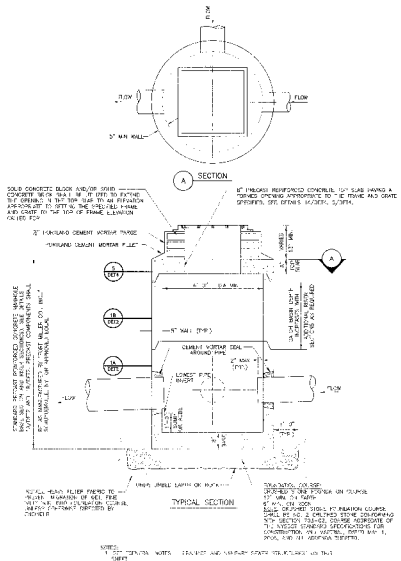
**C.T. MALE ASSOCIATES**  
Engineering, Architecture & Surveying Professionals

DESIGNED BY: [Name]  
CHECKED BY: [Name]  
DRAWN BY: [Name]  
DATE: 10/25/2001

PROJECT NO. 102-1-100

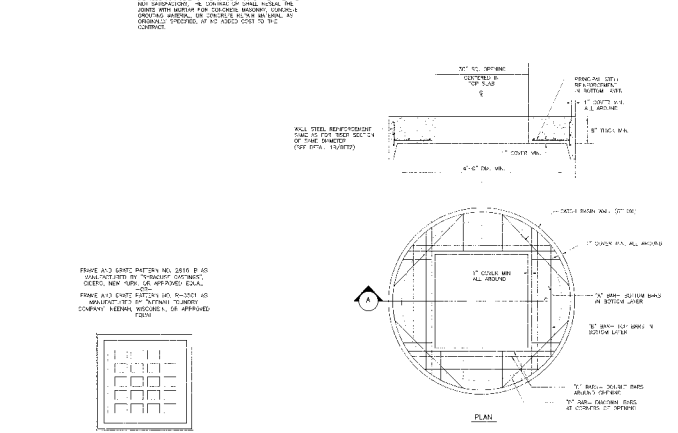
SHEET 11 OF 17

DATE: 10/25/2001



**GENERAL NOTES - DRAINAGE AND SANITARY SEWER STRUCTURES**

1. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AND THE STANDARD SPECIFICATIONS FOR PRECAST CONCRETE, LATEST EDITION.
2. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.
3. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.
4. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.
5. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.
6. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.
7. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.
8. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.
9. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.
10. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.



**PRINCIPAL STEEL REINFORCEMENT - 30" SQ. OPENING**

CONCRETE	TOP	BOTTOM	LEFT	RIGHT
4" DIA. W-10 @ 12" O.C.	4" DIA. W-10 @ 12" O.C.	4" DIA. W-10 @ 12" O.C.	4" DIA. W-10 @ 12" O.C.	4" DIA. W-10 @ 12" O.C.
4" DIA. W-10 @ 12" O.C.	4" DIA. W-10 @ 12" O.C.	4" DIA. W-10 @ 12" O.C.	4" DIA. W-10 @ 12" O.C.	4" DIA. W-10 @ 12" O.C.

**STANDARD SQUARE FRAME AND GRATE ON STANDARD PRECAST CONCRETE SQUARE CATCH BASIN**

**ROUND CATCH BASIN TOP SLAB WITH 30" SQUARE OPENING**

NOTES:

1. CONCRETE SHALL BE 4000 PSI COMPRESSIVE STRENGTH (CY) WITH 4% STEEL FIBER.
2. CONCRETE SHALL BE 4000 PSI COMPRESSIVE STRENGTH (CY) WITH 4% STEEL FIBER.
3. ALL STRUCTURES SHALL BE CONSTRUCTED WITH A MINIMUM OF 4" REINFORCING BARS AND 4" DIA. REINFORCING BARS SHALL BE USED FOR ALL REINFORCEMENT.



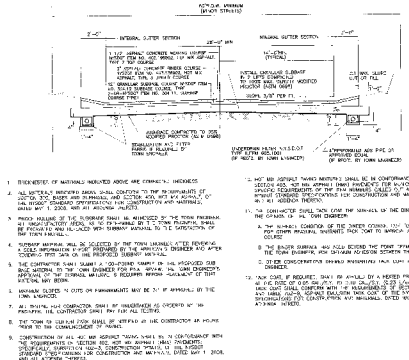
**STORM SEWER DETAILS**

**LONKOLK SUBDIVISION**

**C.T. MALE ASSOCIATES**

**DET4**

10/10/2010 10:00:00 AM

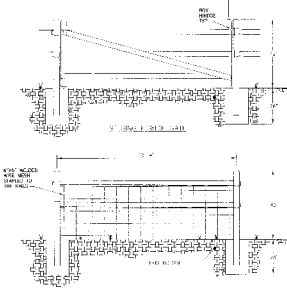


**TYPICAL ROAD CROSS SECTION**

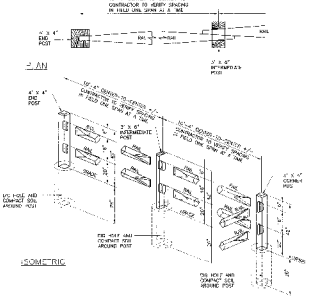
**STORMTECH SC-310 CHAMBER SYSTEM**



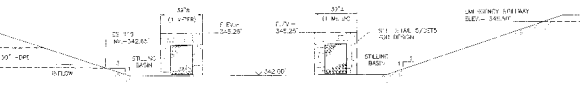
**STORMTECH SC-310 CHAMBER SYSTEM**



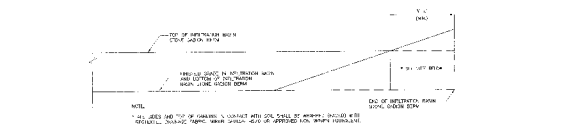
**2-RAIL 42" SPLIT RAIL FENCE W/WIRE MESH ALONG STORMWATER MANAGEMENT AREA**



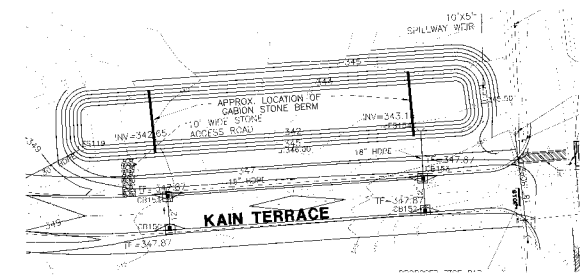
**2-RAIL 42" SPLIT RAIL FENCE ALONG WETLAND BOUNDARY**



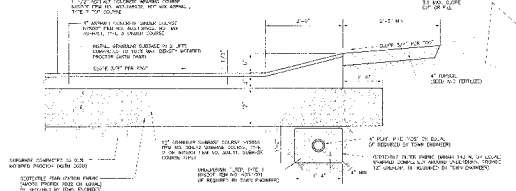
**INFILTRATION BASIN CROSS SECTION**



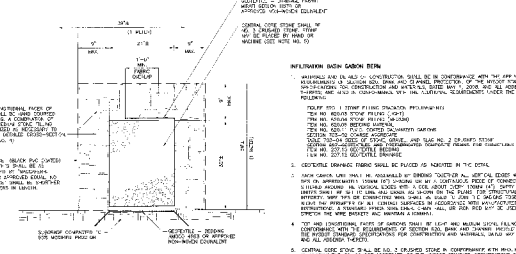
**TERMINATION DETAIL OF INFILTRATION BASIN STONE GABION BERM**



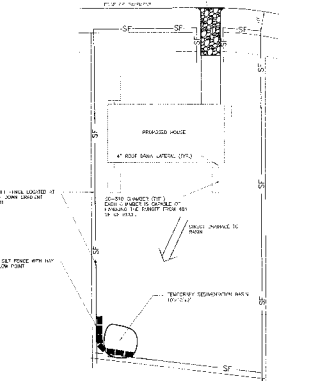
**INFILTRATION BASIN PLAN VIEW**



**DETAIL OF INTEGRAL GUTTER SECTION (ASPHALT BERM)**



**INFILTRATION BASIN STONE GABION BERM**



**TYPICAL LOT EROSION AND SEDIMENT CONTROL**

NO.	REVISION	DATE	BY	DESCRIPTION
1	ISSUED FOR PERMIT	08/15/2024	CTM	ISSUED FOR PERMIT
2	REVISION	08/15/2024	CTM	REVISION
3	REVISION	08/15/2024	CTM	REVISION
4	REVISION	08/15/2024	CTM	REVISION
5	REVISION	08/15/2024	CTM	REVISION
6	REVISION	08/15/2024	CTM	REVISION
7	REVISION	08/15/2024	CTM	REVISION
8	REVISION	08/15/2024	CTM	REVISION
9	REVISION	08/15/2024	CTM	REVISION
10	REVISION	08/15/2024	CTM	REVISION
11	REVISION	08/15/2024	CTM	REVISION
12	REVISION	08/15/2024	CTM	REVISION
13	REVISION	08/15/2024	CTM	REVISION
14	REVISION	08/15/2024	CTM	REVISION
15	REVISION	08/15/2024	CTM	REVISION
16	REVISION	08/15/2024	CTM	REVISION
17	REVISION	08/15/2024	CTM	REVISION
18	REVISION	08/15/2024	CTM	REVISION
19	REVISION	08/15/2024	CTM	REVISION
20	REVISION	08/15/2024	CTM	REVISION

**MISCELLANEOUS DETAILS**

**LONGKILL SUBDIVISION**

**C.T. MALE ASSOCIATES**

30 SOUTH HAVEN, SUITE 100, WESTFIELD, NJ 07090



**DETS**

SCALE: AS SHOWN

DATE: 08/15/2024

BY: CTM

CHECKED: CTM

APPROVED: CTM

PROJECT NO. 24-1000

SHEET NO. 13 OF 17

DATE: 08/15/2024

BY: CTM

CHECKED: CTM

APPROVED: CTM

PROJECT NO. 24-1000

SHEET NO. 13 OF 17

DATE: 08/15/2024

BY: CTM

CHECKED: CTM

APPROVED: CTM

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DATE: 08/15/2024

BY: CTM

CHECKED: CTM

APPROVED: CTM

PROJECT NO. 24-1000

SHEET NO. 13 OF 17

DATE: 08/15/2024

BY: CTM









**TESTING METHODS**

1. THE CONTRACTOR SHALL PROVIDE A POSITIVE INDICATION OF THE GROUND WATER TABLE PRIOR TO TESTING.
2. A HYDROSTATIC TEST IS REQUIRED FOR THE UNDERGROUND WATER SYSTEM. THE TESTING IS TO BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL. THE TESTING IS TO BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL. THE TESTING IS TO BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL.
3. IF THE GROUND WATER CONDITIONS, ESTABLISHED TESTING IS DEEMED NECESSARY, THE CONTRACTOR SHALL PROVIDE POSITIVE INDICATION OF THE GROUND WATER TABLE PRIOR TO TESTING.
4. THE ALLOWABLE INFILTRATION OR EXFILTRATION RATE IS 100 GALLONS PER INCH OF DIAMETER PER HOUR FOR ANY SECTION OF THE SYSTEM. A MINIMUM POSITIVE HEAD OF 2 FEET OF INFILTRATION TEST SHALL BE MAINTAINED THROUGHOUT THE TEST PERIOD.
5. INFILTRATION TESTS SHALL BE MAINTAINED BY A 22.5 PSI AIR PRESSURE. ANY OTHER MEANS MUST BE APPROVED BY THE ENGINEER.
6. ALL SECTIONS ARE TO BE INSTALLED WITH PRESURE RATED PIPE AND INSTALLED WITH LESS THAN 10 FEET OF HEAD. THE TESTING IS TO BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL. THE TESTING IS TO BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL.

**PIPE INSTALLATION**

1. THE INSTALLATION OF ALL SECTIONS SHALL BE IN ACCORDANCE WITH THE MANHOLE SECTION OF THIS SPECIFICATION.
2. THE INSTALLATION OF ALL SECTIONS SHALL BE IN ACCORDANCE WITH THE MANHOLE SECTION OF THIS SPECIFICATION.
3. THE INSTALLATION OF ALL SECTIONS SHALL BE IN ACCORDANCE WITH THE MANHOLE SECTION OF THIS SPECIFICATION.

**TESTING METHODS**

1. THE INFILTRATION TEST SHALL BE MADE BY INSTALLING THE HEAD END OF THE PIPE IN THE MANHOLE SECTION.
2. THE INFILTRATION TEST SHALL BE MADE BY INSTALLING THE HEAD END OF THE PIPE IN THE MANHOLE SECTION.
3. THE INFILTRATION TEST SHALL BE MADE BY INSTALLING THE HEAD END OF THE PIPE IN THE MANHOLE SECTION.

**TESTING METHODS**

1. FOR PRESSURE AIR TESTING MAY BE REQUIRED IN THE CASE OF SECTIONS THAT ARE TO BE TESTED. THE TEST SHALL BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL. THE TESTING IS TO BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL.
2. AN AIR TEST SHALL BE PERFORMED IN THE SECTION OF LINE TO BE TESTED. THE TEST SHALL BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL. THE TESTING IS TO BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL.
3. THE TEST SHALL BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL. THE TESTING IS TO BE PERFORMED WITH THE SYSTEM FULLY OPERATIONAL.

**TESTING METHODS**

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**TESTING METHODS**

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3. THE INFILTRATION TEST SHALL BE MADE BY INSTALLING THE HEAD END OF THE PIPE IN THE MANHOLE SECTION.

**UTILITY NOTES**

LONGKILL SUBDIVISION

C.T. MALE ASSOCIATES

DATE: JAN. 24, 2008

SHEET 17 OF 17

ENC. NO. 02-136