

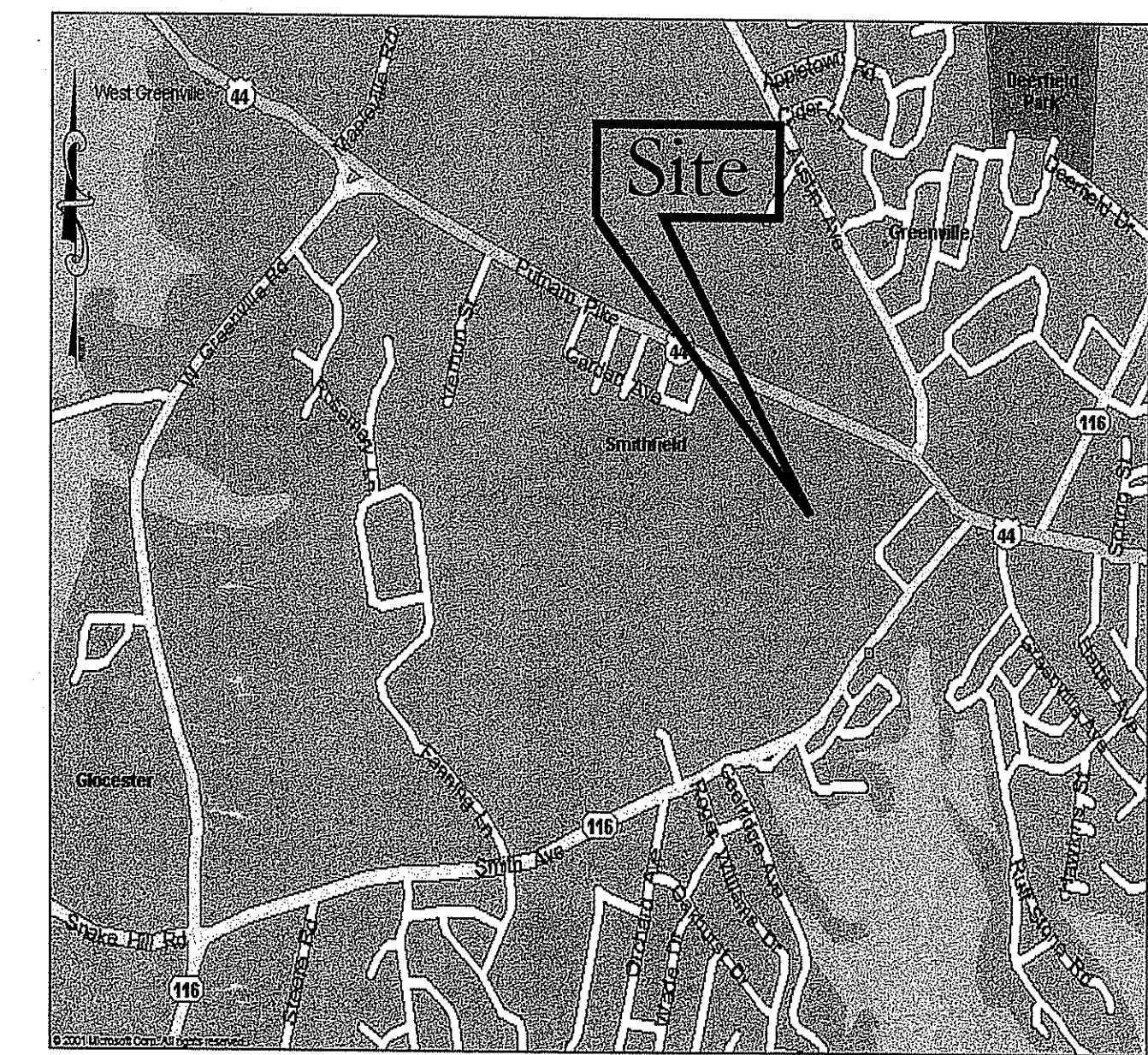
# Preliminary Plans Proposed Day Care Center

Major Land Development  
Assessor's Plat 3 Lot 1A  
15 Church Street Greenville, RI



1/2 Mile Radius Map  
0 500' 1000' 1500'  
1" = 500'

RIGIS 2004



Locus Map N.T.S.

### Owner:

Rally Point Racquet Club  
15 Church Street  
Greenville, RI 02828

### Applicant:

Church Street Realty, LLC  
610 Putnam Pike  
Greenville, RI 02828

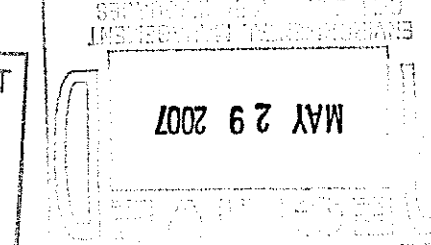
### Sheet Index:

Sheet	Ref.	Name
1	C-1	Cover Sheet
2	(C-2)	Existing Conditions Plan
3	C-3	Proposed Site Layout
4	C-4	Grading & Drainage Plan
5	C-5	Utility Plan
6	C-6	Details
7	C-7	Details
8	C-8	Details
9	C-9	Details
10	L-1	Landscape Plan & Details

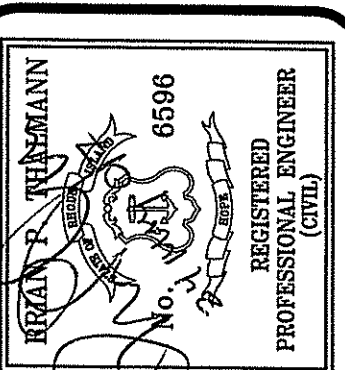
### Smithfield Planning Board Submission

Stage	Date
Master Plan	May 3, 2007

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED AUG 2 2007 FILE # 07-0247  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.  
*Matthew D. Wallace*



NO.	DATE	REVISION	BY



Thalman Engineering Co., Inc.  
Site/Civil Engineers • Land Planners  
600 Putnam Pike, Suite #7  
Greenville, Rhode Island 02828  
(401) 349-3040 • (401) 349-3041 (fax)

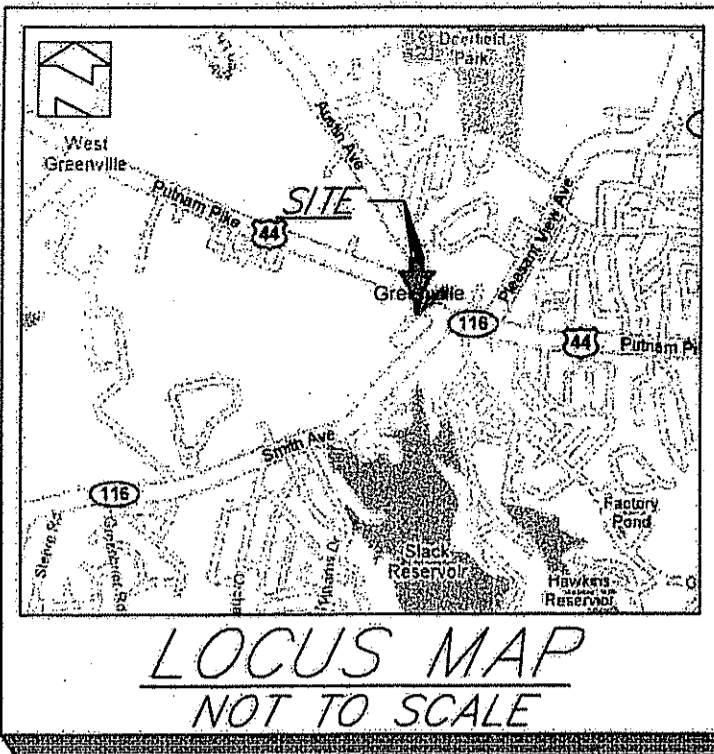
Cover Sheet  
Lot 1A  
Proposed Daycare Center  
15 Church Street  
Prepared for:  
Church Street Realty, LLC  
610 Putnam Pike Greenville, RI 02828

Smithfield  
Rhode Island

Design By: CSR  
Checked By: BPT  
Sheet  
**C-1**  
of 10

FILE NO.: 06.074

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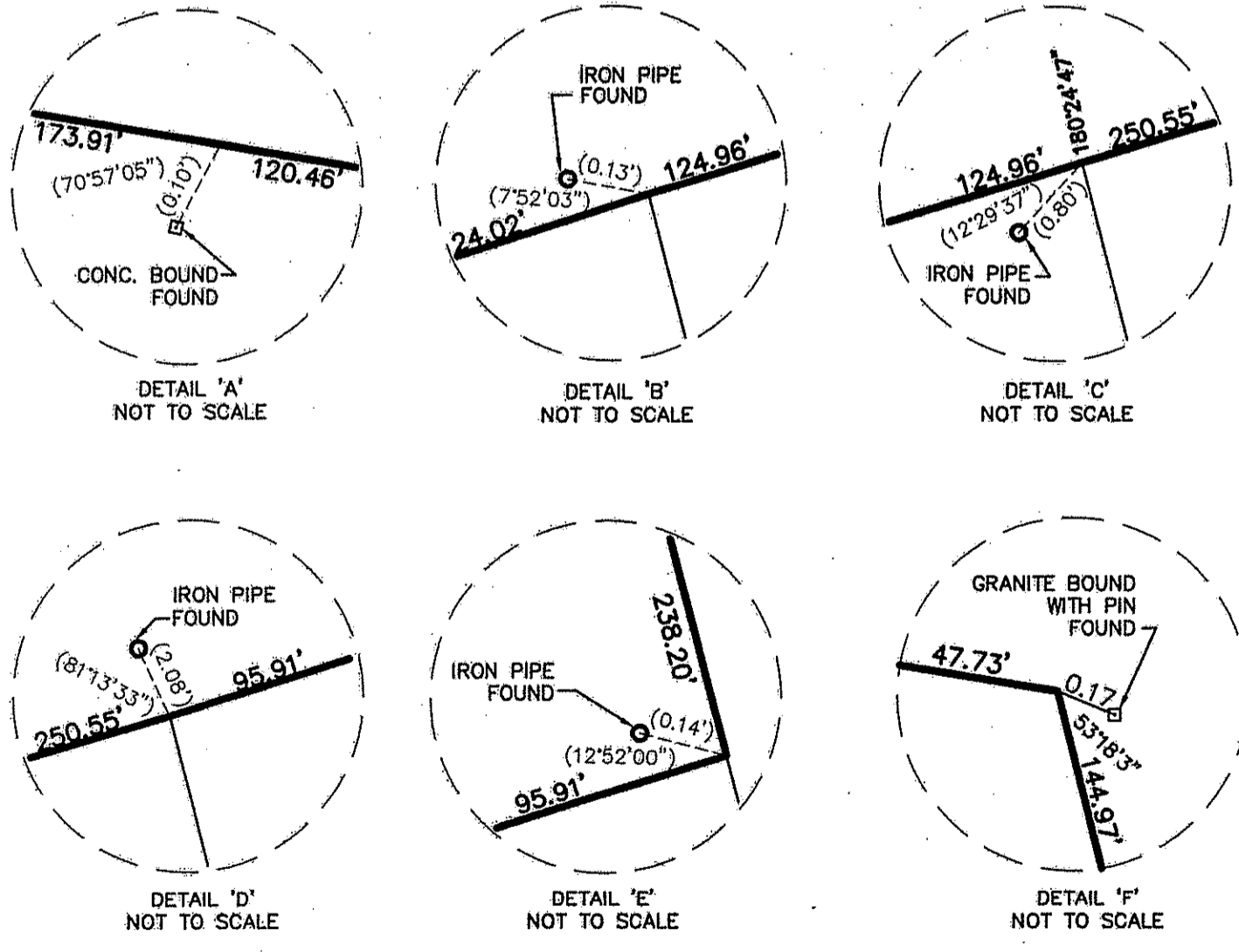
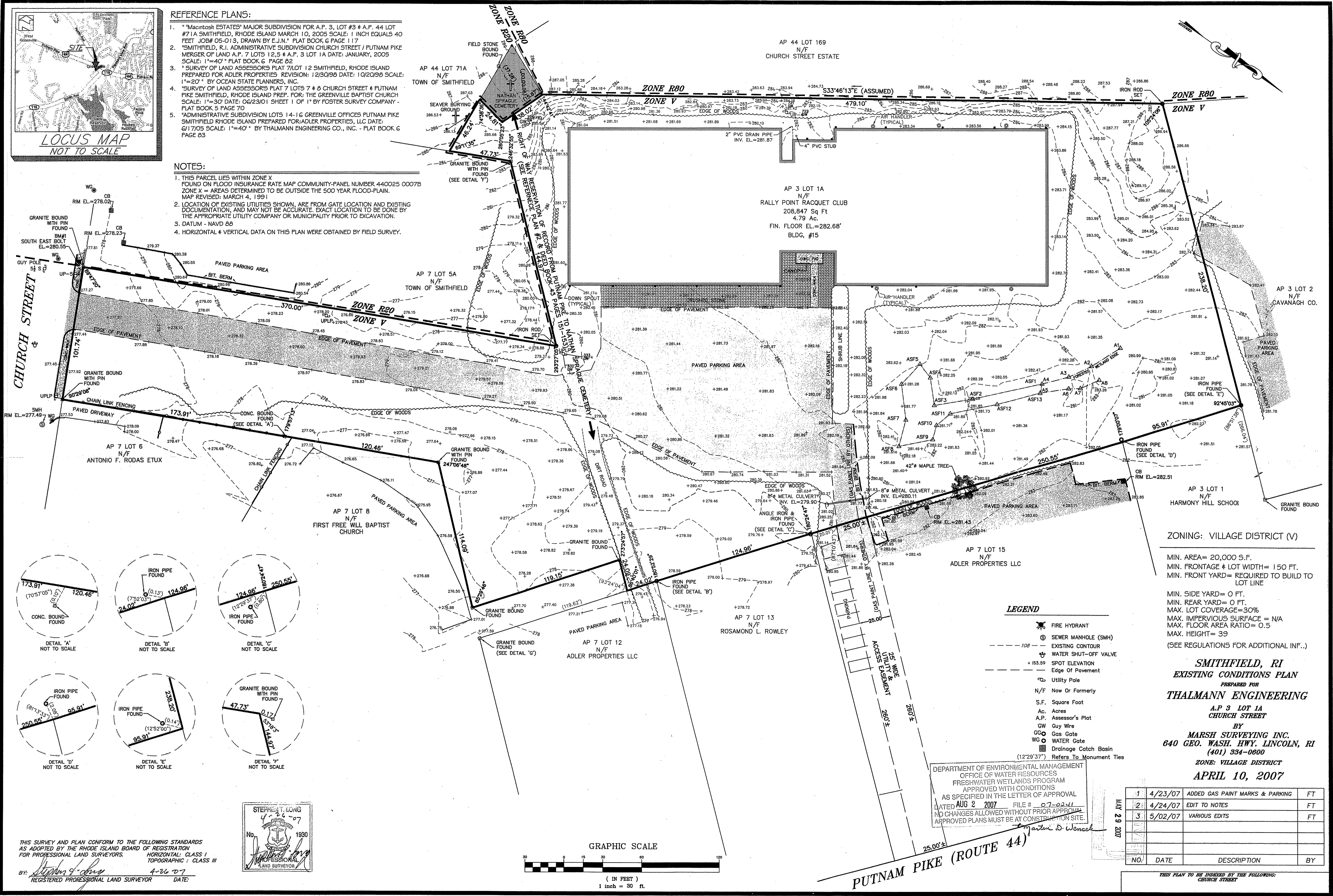


**REFERENCE PLANS:**

- "Macintosh ESTATES" MAJOR SUBDIVISION FOR A.P. 3, LOT #3 & A.P. 44 LOT #7 1A SMITHFIELD, RHODE ISLAND MARCH 10, 2005 SCALE: 1 INCH EQUALS 40 FEET JOB# 05-013, DRAWN BY E.J.N. PLAT BOOK 6 PAGE 117
- "SMITHFIELD, R.I. ADMINISTRATIVE SUBDIVISION CHURCH STREET / PUTNAM PIKE MERGER OF LAND A.P. 7 LOTS 12.5 & A.P. 3 LOT 1A DATE: JANUARY, 2005 SCALE: 1"=40" PLAT BOOK 6 PAGE 82
- "SURVEY OF LAND ASSESSOR'S PLAT 7/LOT 12 SMITHFIELD, RHODE ISLAND PREPARED FOR ADLER PROPERTIES REVISION: 1/23/08 DATE: 1/02/08 SCALE: 1"=20" BY OCEAN STATE PLANNERS, INC.
- "SURVEY OF LAND ASSESSOR'S PLAT 7 LOTS 7 & 8 CHURCH STREET & PUTNAM PIKE SMITHFIELD, RHODE ISLAND PREP. FOR: THE GREENVILLE BAPTIST CHURCH SCALE: 1"=30" DATE: 06/23/01 SHEET 1 OF 1" BY FOSTER SURVEY COMPANY - PLAT BOOK 5 PAGE 70
- "ADMINISTRATIVE SUBDIVISION LOTS 14-16 GREENVILLE OFFICES PUTNAM PIKE SMITHFIELD RHODE ISLAND PREPARED FOR: ADLER PROPERTIES, LLC DATE: 6/17/05 SCALE: 1"=40" BY THALMANN ENGINEERING CO., INC. - PLAT BOOK 6 PAGE 83

**NOTES:**

- THIS PARCEL LIES WITHIN ZONE X FOUND ON FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 440025 0007B ZONE X = AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD-PLAIN. MAP REVISED: MARCH 4, 1991
- LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION, AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO EXCAVATION.
- DATUM - NAVD 88
- HORIZONTAL & VERTICAL DATA ON THIS PLAN WERE OBTAINED BY FIELD SURVEY.



- LEGEND**
- FIRE HYDRANT
  - ⊙ SEWER MANHOLE (SMH)
  - - - - - EXISTING CONTOUR
  - ⊕ WATER SHUT-OFF VALVE
  - + 153.59 SPOT ELEVATION
  - - - - - Edge Of Pavement
  - ⊕ Utility Pole
  - N/F Now Or Formerly
  - S.F. Square Foot
  - Ac. Acres
  - A.P. Assessor's Plat
  - GW Guy Wire
  - GG Gas Gate
  - WG Water Gate
  - ⊕ Drainage Catch Basin
  - (12'29'37") Refers To Monument Ties

**ZONING: VILLAGE DISTRICT (V)**

MIN. AREA= 20,000 S.F.  
 MIN. FRONTAGE & LOT WIDTH= 150 FT.  
 MIN. FRONT YARD= REQUIRED TO BUILD TO LOT LINE

MIN. SIDE YARD= 0 FT.  
 MIN. REAR YARD= 0 FT.  
 MAX. LOT COVERAGE=30%  
 MAX. IMPERVIOUS SURFACE = N/A  
 MAX. FLOOR AREA RATIO= 0.5  
 MAX. HEIGHT= 39

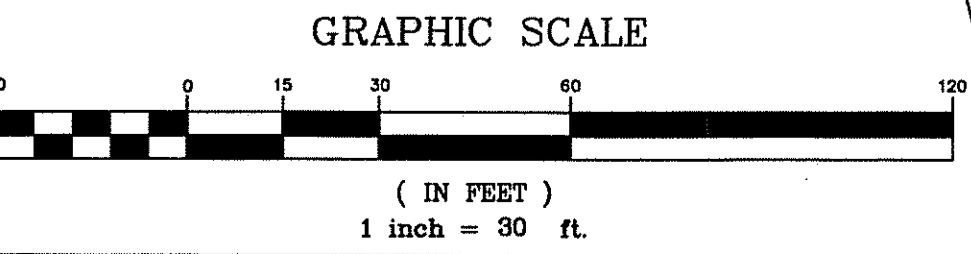
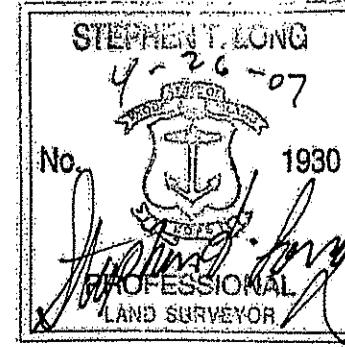
(SEE REGULATIONS FOR ADDITIONAL INF..)

**SMITHFIELD, RI**  
**EXISTING CONDITIONS PLAN**  
 PREPARED FOR  
**THALMANN ENGINEERING**  
 A.P. 3 LOT 1A  
 CHURCH STREET  
 BY  
**MARSH SURVEYING INC.**  
 640 GEO. HWY. LINCOLN, RI  
 (401) 334-0600  
 ZONE: VILLAGE DISTRICT  
**APRIL 10, 2007**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED AUG 2 2007 FILE # 07-0241  
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.  
 HORIZONTAL: CLASS I  
 TOPOGRAPHIC: CLASS III

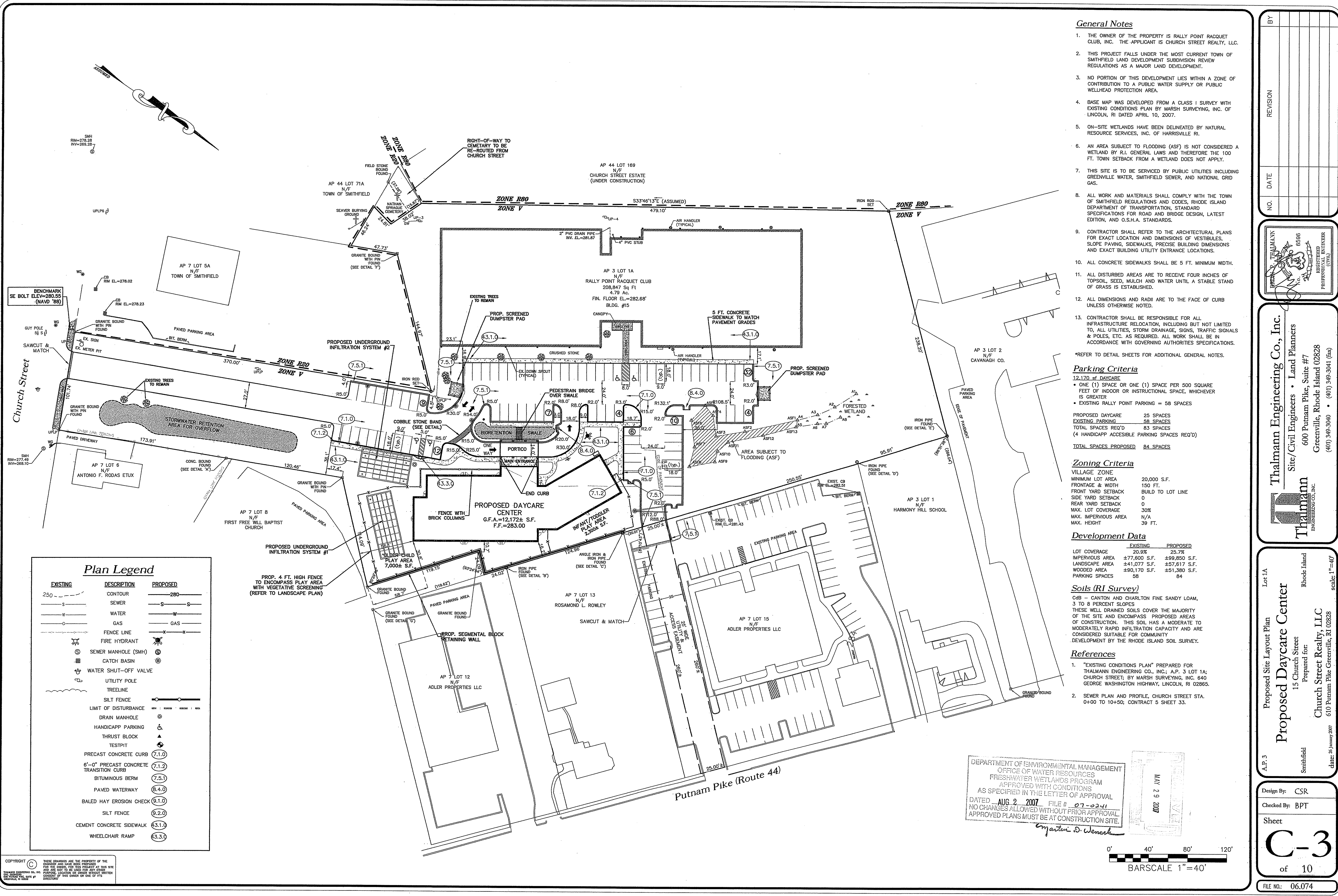
BY: *Stephen J. Conroy* 4-26-07  
 REGISTERED PROFESSIONAL LAND SURVEYOR DATE:



NO.	DATE	DESCRIPTION	BY
1	4/23/07	ADDED GAS PAINT MARKS & PARKING	FT
2	4/24/07	EDIT TO NOTES	FT
3	5/02/07	VARIOUS EDITS	FT
NO.	DATE	DESCRIPTION	BY

THIS PLAN TO BE INDEXED BY THE FOLLOWING:  
 CHURCH STREET

C:\LAND PROJECTS\2004\07-DIGITAL\PROJECT\PLAN\EXISTCOND.DWG 4/26/2007 10:26:07 AM EDT



- ### General Notes
- THE OWNER OF THE PROPERTY IS RALLY POINT RACQUET CLUB, INC. THE APPLICANT IS CHURCH STREET REALTY, LLC.
  - THIS PROJECT FALLS UNDER THE MOST CURRENT TOWN OF SMITHFIELD LAND DEVELOPMENT SUBDIVISION REVIEW REGULATIONS AS A MAJOR LAND DEVELOPMENT.
  - NO PORTION OF THIS DEVELOPMENT LIES WITHIN A ZONE OF CONTRIBUTION TO A PUBLIC WATER SUPPLY OR PUBLIC WELLS PROTECTION AREA.
  - BASE MAP WAS DEVELOPED FROM A CLASS I SURVEY WITH EXISTING CONDITIONS PLAN BY MARSH SURVEYING, INC. OF LINCOLN, RI DATED APRIL 10, 2007.
  - ON-SITE WETLANDS HAVE BEEN DELINEATED BY NATURAL RESOURCE SERVICES, INC. OF HARRISVILLE RI.
  - AN AREA SUBJECT TO FLOODING (ASF) IS NOT CONSIDERED A WETLAND BY R.I. GENERAL LAWS AND THEREFORE THE 100 FT. TOWN SETBACK FROM A WETLAND DOES NOT APPLY.
  - THIS SITE IS TO BE SERVICED BY PUBLIC UTILITIES INCLUDING GREENVILLE WATER, SMITHFIELD SEWER, AND NATIONAL GRID GAS.
  - ALL WORK AND MATERIALS SHALL COMPLY WITH THE TOWN OF SMITHFIELD REGULATIONS AND CODES, RHODE ISLAND DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, LATEST EDITION, AND O.S.H.A. STANDARDS.
  - CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
  - ALL CONCRETE SIDEWALKS SHALL BE 5 FT. MINIMUM WIDTH.
  - ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A STABLE STAND OF GRASS IS ESTABLISHED.
  - ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INFRASTRUCTURE RELOCATION, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS.
- \*REFER TO DETAIL SHEETS FOR ADDITIONAL GENERAL NOTES.

- ### Parking Criteria
- 12,170 sq DAYCARE
- ONE (1) SPACE OR ONE (1) SPACE PER 500 SQUARE FEET OF INDOOR OR INSTRUCTIONAL SPACE, WHICHEVER IS GREATER
  - EXISTING RALLY POINT PARKING = 58 SPACES
- PROPOSED DAYCARE 25 SPACES  
 EXISTING PARKING 58 SPACES  
 TOTAL SPACES REQ'D 83 SPACES  
 (4 HANDICAPP ACCESSIBLE PARKING SPACES REQ'D)  
 TOTAL SPACES PROPOSED 84 SPACES

- ### Zoning Criteria
- VILLAGE ZONE  
 MINIMUM LOT AREA 20,000 S.F.  
 FRONTAGE & WIDTH 150 FT.  
 FRONT YARD SETBACK BUILT TO LOT LINE  
 SIDE YARD SETBACK 0  
 REAR YARD SETBACK 0  
 MAX. LOT COVERAGE 30%  
 MAX. IMPERVIOUS AREA N/A  
 MAX. HEIGHT 39 FT.

- ### Development Data
- |                 | EXISTING     | PROPOSED     |
|-----------------|--------------|--------------|
| LOT COVERAGE    | 20.9%        | 25.7%        |
| IMPERVIOUS AREA | ±77,600 S.F. | ±99,850 S.F. |
| LANDSCAPE AREA  | ±41,077 S.F. | ±57,617 S.F. |
| WOODED AREA     | ±80,170 S.F. | ±51,380 S.F. |
| PARKING SPACES  | 58           | 84           |

- ### Soils (RI Survey)
- CdB - CANTON AND CHARLTON FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES  
 THESE WELL DRAINED SOILS COVER THE MAJORITY OF THE SITE AND ENCOMPASS PROPOSED AREAS OF CONSTRUCTION. THIS SOIL HAS A MODERATE TO MODERATELY RAPID INFILTRATION CAPACITY AND ARE CONSIDERED SUITABLE FOR COMMUNITY DEVELOPMENT BY THE RHODE ISLAND SOIL SURVEY.

- ### References
- "EXISTING CONDITIONS PLAN" PREPARED FOR THALMANN ENGINEERING CO., INC.; A.P. 3 LOT 1A; CHURCH STREET; BY MARSH SURVEYING, INC. 640 GEORGE WASHINGTON HIGHWAY, LINCOLN, RI 02865.
  - SEWER PLAN AND PROFILE, CHURCH STREET STA. 0+00 TO 10+50; CONTRACT 5 SHEET 33.

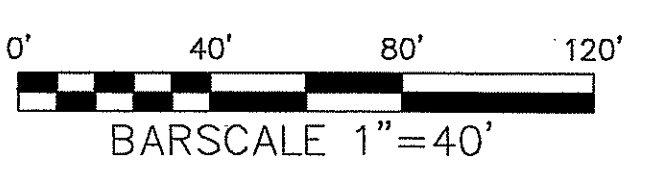
### Plan Legend

EXISTING	DESCRIPTION	PROPOSED
250	CONTOUR	280
S	SEWER	S
W	WATER	W
G	GAS	G
X	FENCE LINE	X
⊕	FIRE HYDRANT	⊕
⊙	SEWER MANHOLE (SMH)	⊙
⊚	CATCH BASIN	⊚
⊕	WATER SHUT-OFF VALVE	⊕
⊙	UTILITY POLE	⊙
—	TREELINE	—
—	SILT FENCE	—
—	LIMIT OF DISTURBANCE	—
⊕	DRAIN MANHOLE	⊕
♿	HANDICAPP PARKING	♿
⬆	THRUST BLOCK	⬆
⊕	TESTPIT	⊕
⊕	PRECAST CONCRETE CURB	7.1.0
⊕	6"-0" PRECAST CONCRETE TRANSITION CURB	7.1.2
⊕	BITUMINOUS BERM	7.5.1
⊕	PAVED WATERWAY	8.4.0
⊕	BALED HAY EROSION CHECK	9.1.0
⊕	SILT FENCE	9.2.0
⊕	CEMENT CONCRETE SIDEWALK	8.3.1.0
⊕	WHEELCHAIR RAMP	8.3.3.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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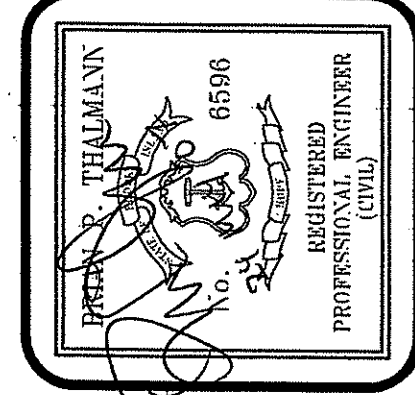
MAY 29 2007

Signature: D. Wencel



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BY	REVISION	DATE

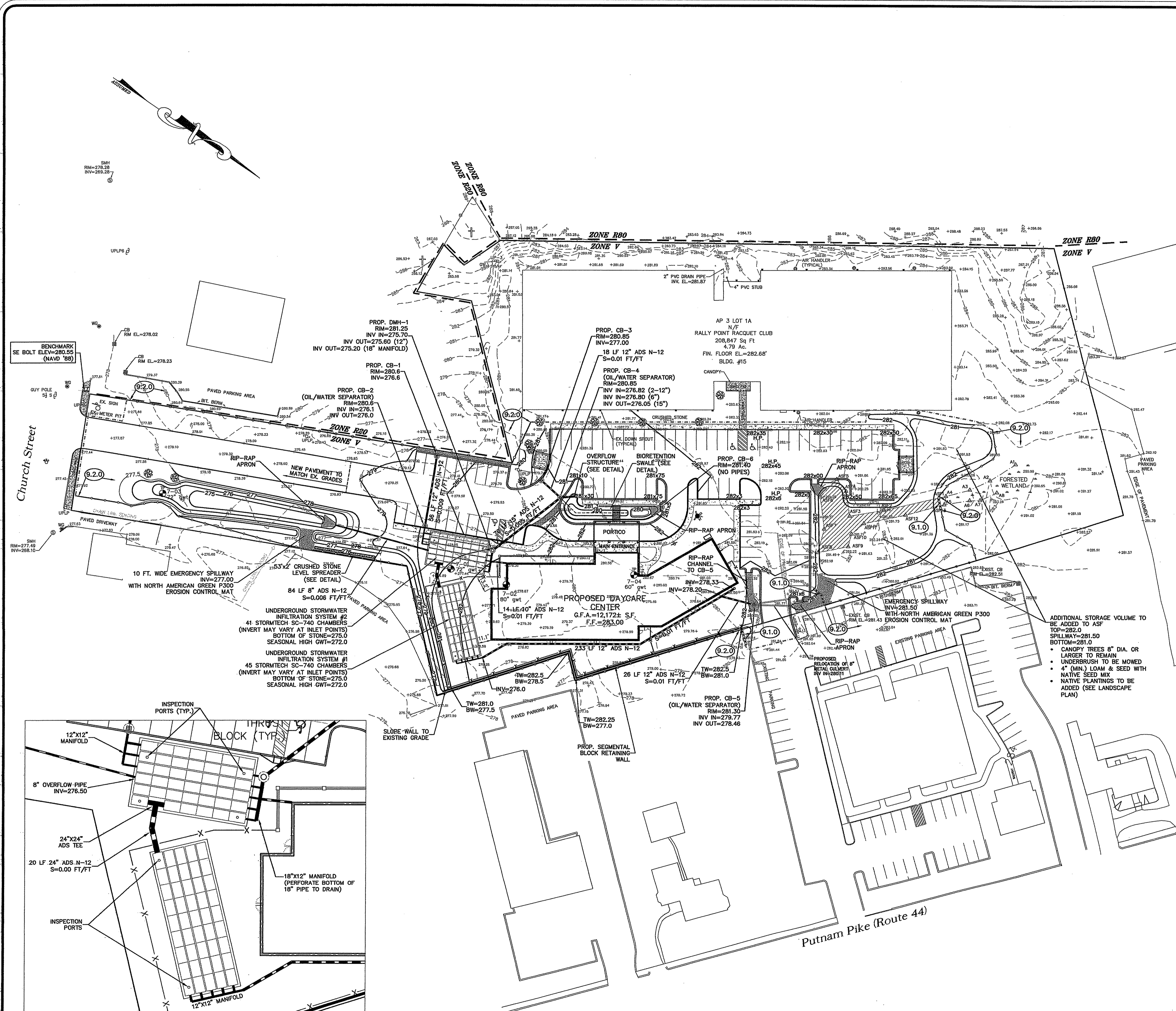


Thalman Engineering Co., Inc.  
 Site/Civil Engineers • Land Planners  
 600 Putnam Pike, Suite #7  
 Greenville, Rhode Island 02828  
 (401) 349-3000 • (401) 349-3041 (fax)

Thalman ENGINEERING CO., INC.

Proposed Site Layout Plan  
 Proposed Daycare Center  
 15 Church Street  
 Prepared for:  
 Church Street Realty, LLC  
 610 Putnam Pike Greenville, RI 02828  
 date: 26 January 2007  
 scale: 1"=40'

Design By: CSR  
 Checked By: BPT  
 Sheet  
**C-3**  
 of 10  
 FILE NO.: 06.074



**SITE GRADING AND DRAINAGE NOTES**

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" PRIOR TO EXCAVATION AND SHALL NOTIFY LOCAL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE COMMENCEMENT OF WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RELOCATE UTILITIES AS REQUIRED SHOULD THERE BE A CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A SOIL EROSION PERMIT PRIOR TO THE INITIATION OF CONSTRUCTION WORK AND SHALL INSTALL ALL SOIL EROSION PROTECTION DEVICES PER PLAN PRIOR TO ANY EARTH MOVING ACTIVITIES AND/OR REMOVAL OF VEGETATION.
3. PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION. SHOP DRAWINGS OF PRECAST STRUCTURES SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BEFORE USE.
4. ALL CATCH BASINS ARE TO BE 4 FT. DIAMETER WITH 3 FT. SUMPS, UNLESS OTHERWISE SPECIFIED AS OIL/WATER SEPARATORS (SEE DETAIL).
5. DRAINAGE PIPE SHALL ADS N-12.
6. EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 1 FOOT INTERVALS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
8. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
9. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
10. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
11. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
12. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. THE CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH TOWN SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
13. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
14. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR IS REQUIRED TO DEVELOP AND IMPLEMENT A PLAN FOR THE TEMPORARY CONTROL OF VEHICULAR AND PEDESTRIAN TRAFFIC FOR WORK WITHIN PUBLIC STREET RIGHT-OF-WAY AT THE SITE EGRESS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF SAID PLAN FROM APPROPRIATE STATE AND COMMUNITY PUBLIC SAFETY OFFICIALS.
15. WHEN IT IS NECESSARY TO CLOSE OFF A STREET, THE FIRE DEPARTMENT AND POLICE DEPARTMENT SHALL BE NOTIFIED BY THE CONTRACTOR.
16. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

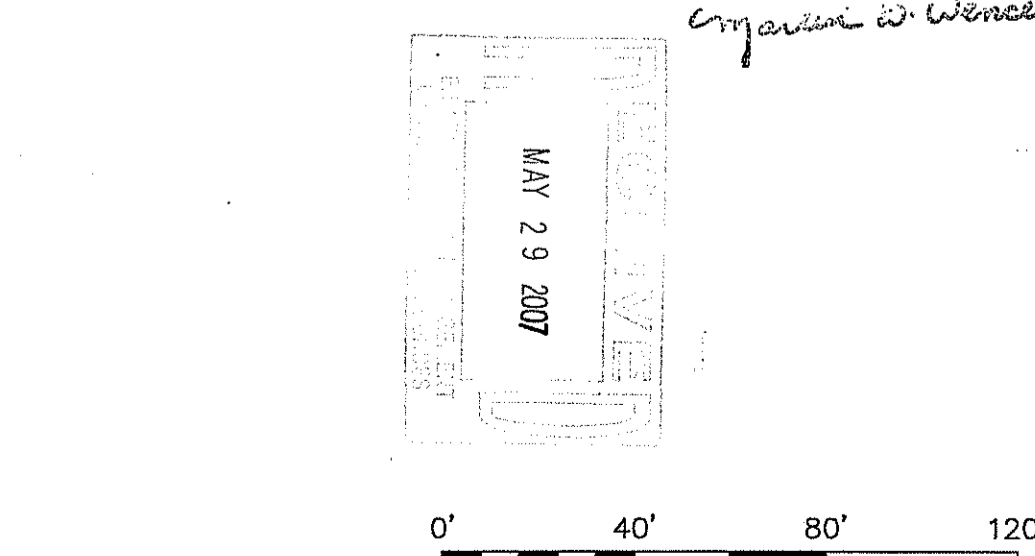
**Sheet Legend**

DESCRIPTION	SYMBOL
CONTOUR	-280-
CATCH BASIN	⊕
DRAIN MANHOLE	⊙
DRAIN PIPE	—
SILT FENCE	—
LIMIT OF DISTURBANCE	—
BALED HAY EROSION CHECK	(9.1.0)
SILT FENCE	(9.2.0)

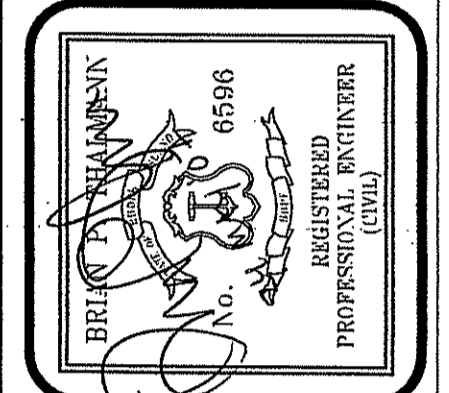
- ADDITIONAL STORAGE VOLUME TO BE ADDED TO ASF  
 TOP=282.0  
 SPILLWAY=281.50  
 BOTTOM=281.0
- CANOPY TREES 8" DIA. OR LARGER TO REMAIN
  - UNDERGRASS TO BE MOWED
  - 4" (MIN.) LOAM & SEED WITH NATIVE SEED MIX
  - NATIVE PLANTINGS TO BE ADDED (SEE LANDSCAPE PLAN)

**Stormtech SC-740 UIC Plan**  
 SCALE 1"=20'

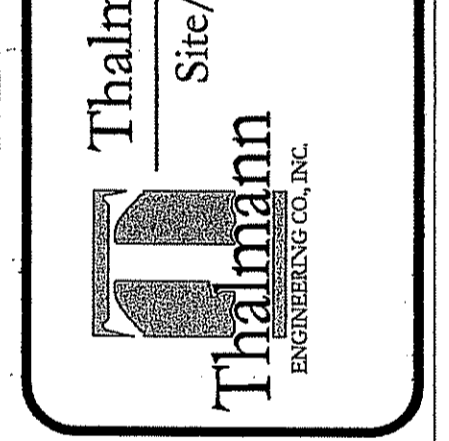
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BY	
REVISION	
DATE	
NO.	



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 Site/Civil Engineers • Land Planners  
 600 Putnam Pike, Suite #7  
 Greenville, Rhode Island 02828  
 (401) 349-3040 • (401) 349-3041 (fax)



Grading & Drainage Plan  
**Proposed Daycare Center**  
 15 Church Street  
 Prepared for:  
**Church Street Realty, LLC**  
 610 Putnam Pike Greenville, RI 02828  
 Date: 26 January 2007  
 Lot 1A  
 Rhode Island  
 Smithfield  
 Scale: 1"=40'

Design By: CSR  
 Checked By: BPT  
 Sheet  
**C-4**  
 of 10  
 FILE NO.: 06.074

**General Notes**

- ELECTRIC & GAS SERVICES TO BE COORDINATED WITH NATIONAL GRID.
- LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY CONTRACTOR.
- ANY DISCREPANCIES FOUND IN THE FIELD FROM THIS PLAN MUST BE REPORTED TO THALMANN ENGINEERING IMMEDIATELY.

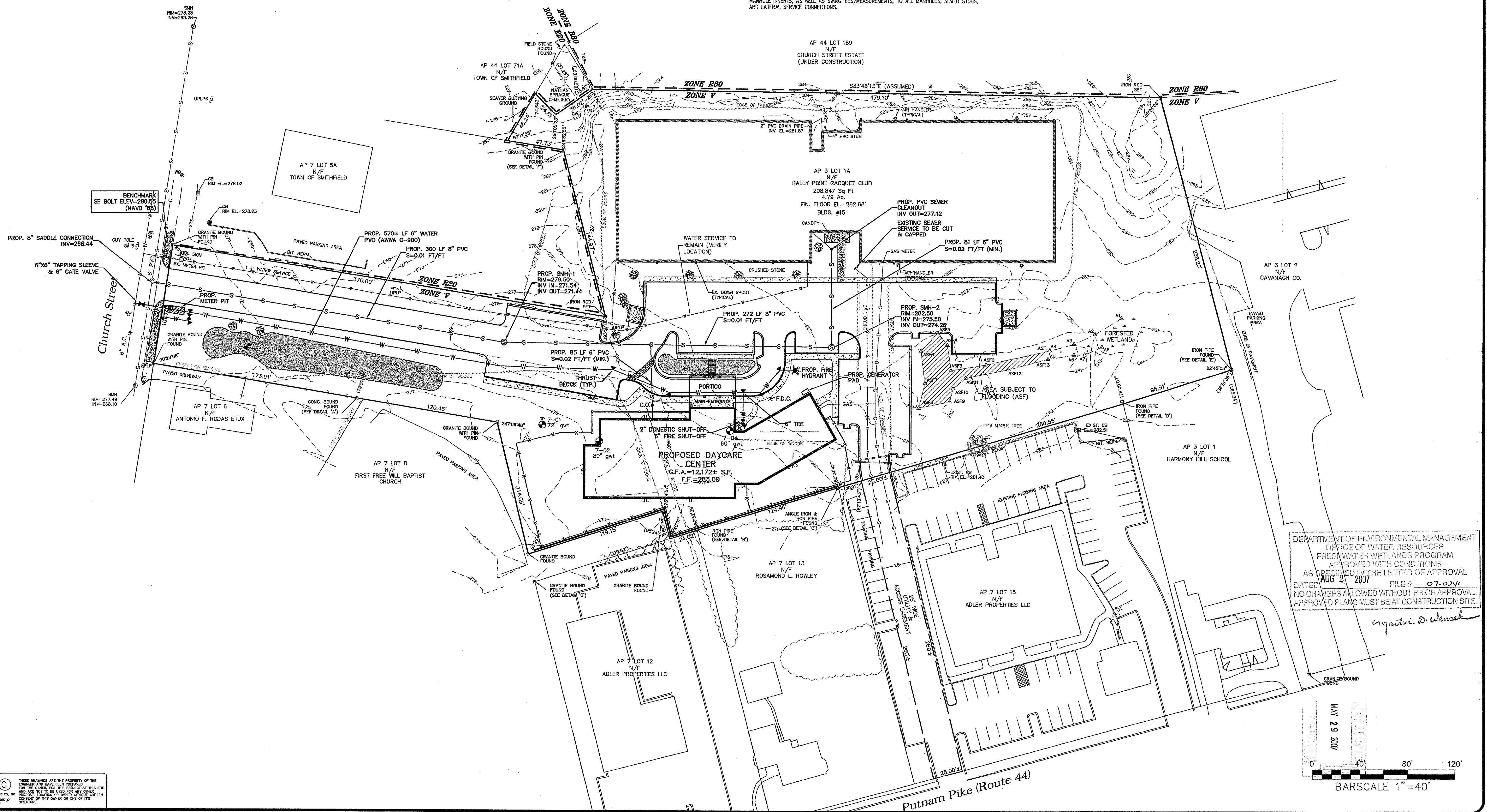
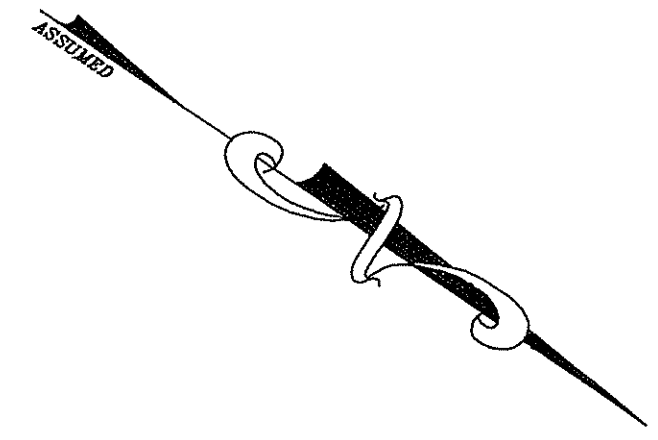
**Sanitary Sewer Notes**

- ALL SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN SMITHFIELD SEWER AUTHORITY "STANDARD SPECIFICATIONS AND DETAILS FOR THE INSTALLATION OF SEWER AND APPURTENANCES BY PRIVATE DEVELOPERS."
- EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED WITHOUT INTERRUPTION DURING CONSTRUCTION. DRAIN LAYERS SHALL ONLY INSTALL BUILDING SEWERS DURING THE NORMAL WORKING HOURS OF THE SMITHFIELD SEWER AUTHORITY.
- PRECAST CONCRETE SECTIONS AND APPURTENANCES SHALL CONFORM TO ASTM C478-79.
- GASKETS FOR PIPE TO MANHOLE CONNECTIONS SHALL CONFORM TO ASTM C923.
- EXTERIOR SURFACES OF MANHOLE STRUCTURES AND APPURTENANCES SHALL BY GIVEN TWO (2) COATS OF BITUMINOUS WATERPROOFING.
- MANHOLE BRICK TO CONFORM TO ASTM M32, AND AASHTO M91, RED BRICK.
- STANDARD MANHOLE FRAMES AND COVERS TO BE LEBARON FOUNDRY MODEL LC326-200, WITH THE WORD "SEWER" CAST IN THE COVER.
- ALL SEWER LATERALS ARE TO HAVE TEN (10) FEET OF HORIZONTAL CLEARANCE FROM WATER LINES, WHERE SEWER AND WATER CROSS, A MINIMUM OF EIGHTEEN (18) INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED.
- ALL SEWER LATERALS ARE TO BE INSTALLED TO PROVIDE BASEMENT SEWER SERVICE.
- ALL NON-PRESSURE SANITARY SEWER PIPES SHALL BE POLY VINYL CHLORIDE (PVC) PIPE AND SHALL CONFORM TO ASTM D-3034, SDR 35 & SCH 40 STANDARDS.

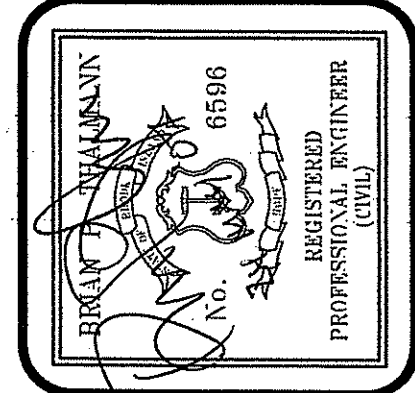
**Greenville Water Notes**

- ALL INSTALLATION, JOINTS, CONSTRUCTION METHODS AND MATERIALS SHALL BE ACCORDING TO GREENVILLE WATER DISTRICT INSTALLATION OF WATER MAINS, AWWA STANDARDS AND GOVERNMENTAL REQUIREMENTS.
- WATER PIPE SHALL BE AWWA C-900 PVC.
- CONSTRUCTION SHALL INCLUDE ALL PIPE, JOINTS, BENDS, TEES, FITTINGS, THRUST BLOCKS, SERVICE CONNECTIONS AND ALL MISCELLANEOUS ITEMS REQUIRED TO CONSTRUCT THE PROPOSED SYSTEM.
- CONCRETE THRUST ANCHOR OR BEARING BLOCKS SHALL BE INSTALLED IN LOCATIONS INDICATED AND AT ALL BENDS, FITTINGS, PLUGS, ETC. WHEN A THRUST BLOCK CANNOT BE PLACED AGAINST UNDISTURBED EARTH, A REACTION BLOCK SUBSTITUTE SHALL BE DESIGNED AND SUBMITTED TO THE ENGINEER FOR APPROVAL.
- PRESSURE AND LEAKAGE TESTS AND DISINFECTING PIPES SHALL BE PERFORMED BY THE CONTRACTOR IN CONFORMANCE TO AMERICAN WATER WORKS ASSOCIATION (AWWA) RECOMMENDATIONS, GREENVILLE WATER DISTRICT REQUIREMENTS, AND GOVERNMENTAL AGENCIES HAVING JURISDICTION.
- ALL FITTINGS, PIPE, JOINTS, ETC. SHALL BE DESIGNED FOR 1.5 TIMES WORKING PRESSURE, BUT NOT LESS THAN 150 PSI. PIPE SIZES SHOWN ON THE PLANS ARE SUBJECT TO CHANGE UPON REVIEW BY THE GREENVILLE WATER DISTRICT.

- WATER PIPE SHALL TYPICALLY BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM SEWER PIPE, AND AT A MINIMUM DEPTH OF COVER EQUAL TO 5' WHERE A NEW WATER MAIN IS LESS THAN 18 INCHES CLEAR DISTANCE ABOVE A SEWER OR WHERE A WATER MAIN PASSES BENEATH A SEWER OR STORM DRAIN, ENCASE THE SEWER OR DRAIN IN 6" OF CONCRETE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING WATER MAIN.
- ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS, SUCH AS PIPE, THRUST BLOCKS, FITTINGS, CASTINGS, ETC. SHALL BE SUBMITTED TO THE GREENVILLE WATER DISTRICT AND ENGINEER FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. THIS SUBMISSION SHALL INCLUDE MANUFACTURER'S LITERATURE, SHOP DRAWINGS, PROPOSED CONSTRUCTION METHODS, ETC.
- WATER LINE TRENCH TO BE AWWA TYPE S. A METALIZED DETECTABLE IDENTIFICATION TAPE 2" IN WIDTH, BLUE IN COLOR AND PRINTED WITH "CAUTION WATERBURIED BELOW" SHALL BE UTILIZED OVER ALL MAINS. TAPE SHALL BE SET AT APPROXIMATELY 1'-0" BELOW FINISHED GRADE.
- THE DEVELOPER SHALL MAKE APPLICATION FOR AND PAY ALL FEES FOR PERMITS REQUIRED TO CONSTRUCT THIS PROJECT. THE DEVELOPER SHALL NOTIFY THE DISTRICT IN WRITING A MINIMUM OF 72 HOURS PRIOR TO WATER INFRASTRUCTURE INSTALLATION.
- PRIOR TO RECEIVING AUTHORIZATION TO CONSTRUCT, ALL MATERIALS SHALL BE APPROVED BY GREENVILLE WATER DISTRICT.
- ALL WATER MAIN AND LATERALS SHALL MEET TESTING AND DISINFECTING REQUIREMENTS PRIOR TO ACCEPTANCE.
- AS-BUILT DRAWINGS MUST BE PROVIDED TO THE DISTRICT AT THE COMPLETION OF THE PROJECT.



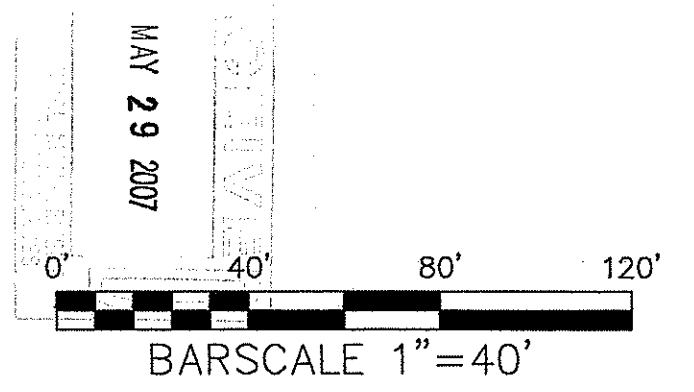
NO.	DATE	REVISION	BY



**Thalman Engineering Co., Inc.**  
 Site/Civil Engineers • Land Planners  
 600 Putnam Pike, Suite #7  
 Greenville, Rhode Island 02828  
 (401) 349-3040 • (fax) (401) 349-3041

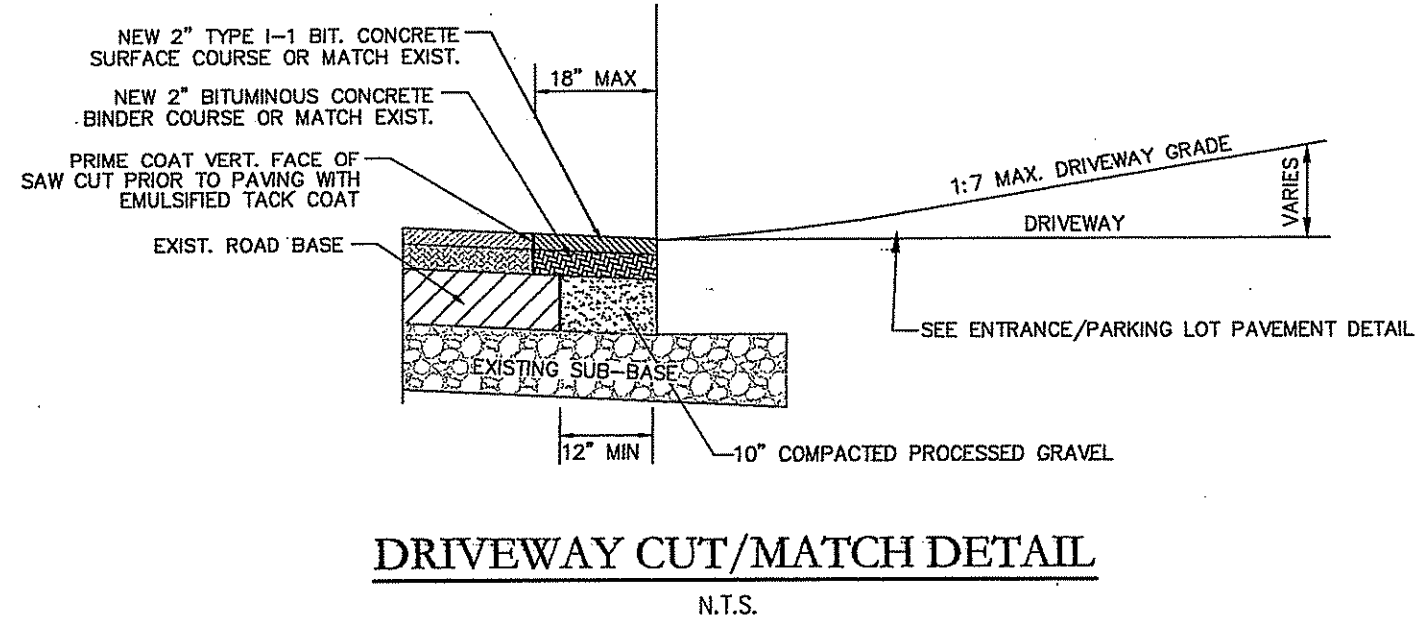
Utility Plan  
**Proposed Daycare Center**  
 15 Church Street  
 Prepared for:  
**Church Street Realty, LLC**  
 610 Putnam Pike Greenville, RI 02828  
 date: 26 January 2007  
 scale: 1"=40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 AUG 2 2007 FILE # 07-024  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

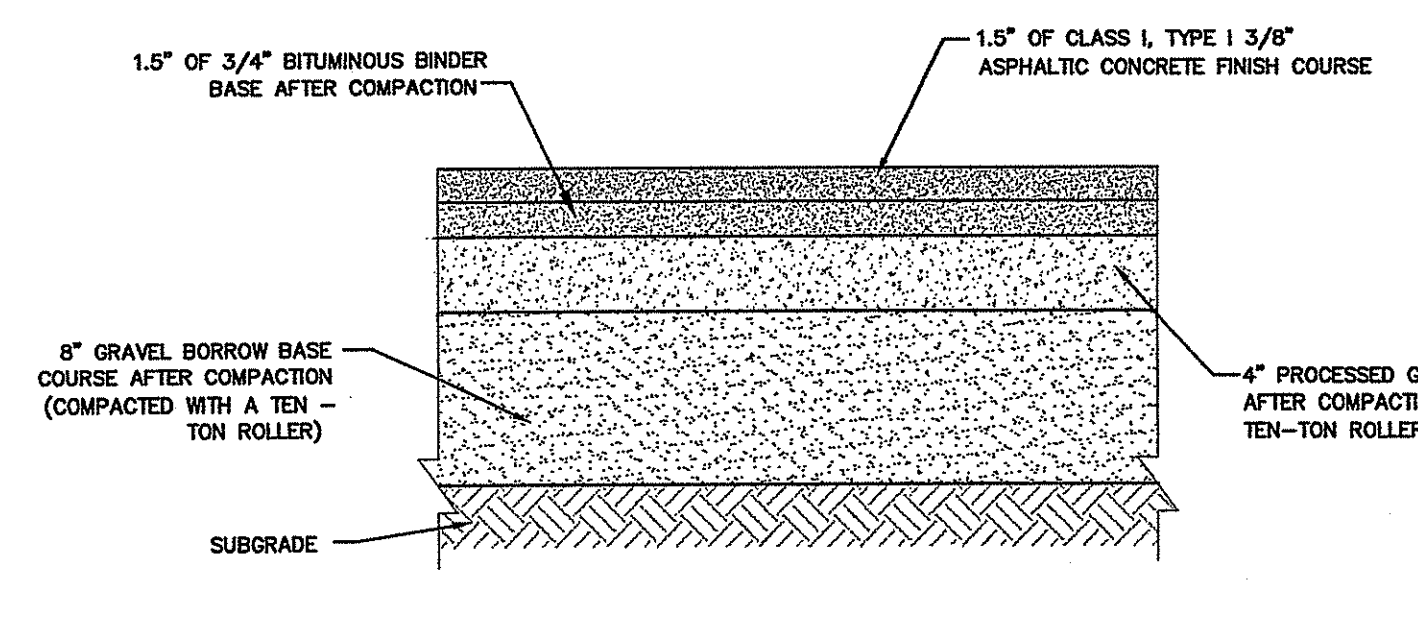


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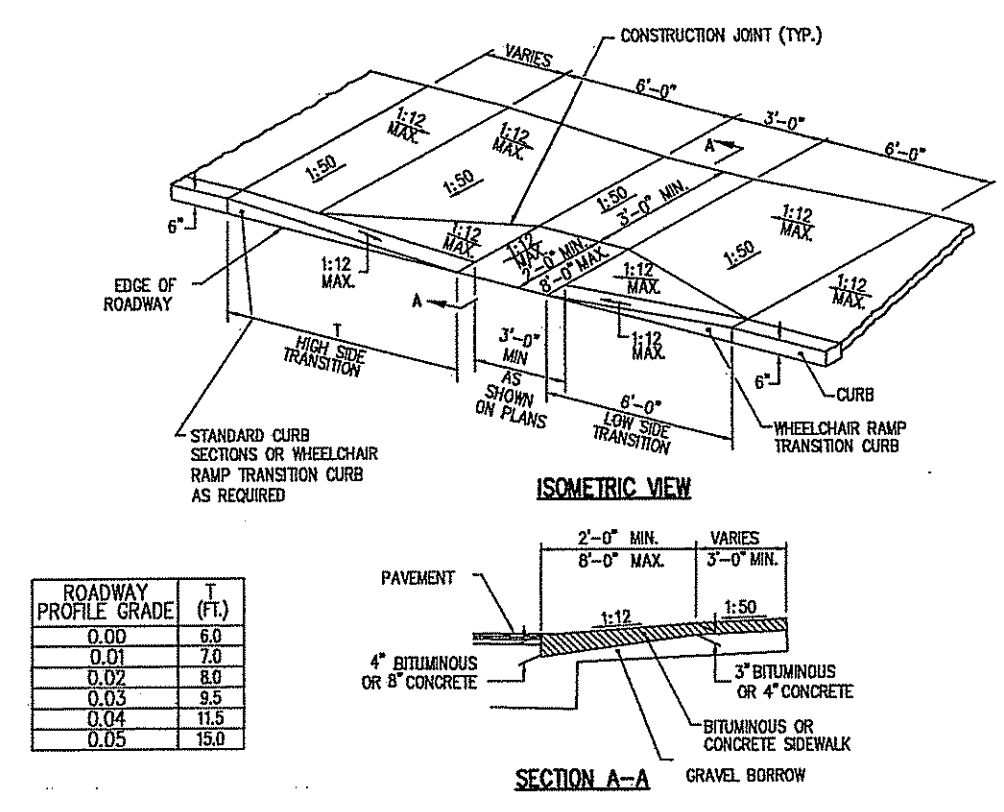
Design By: CSR  
 Checked By: BPT  
 Sheet  
**C-5**  
 of 10  
 FILE NO.: 06.074



**DRIVEWAY CUT/MATCH DETAIL**  
N.T.S.



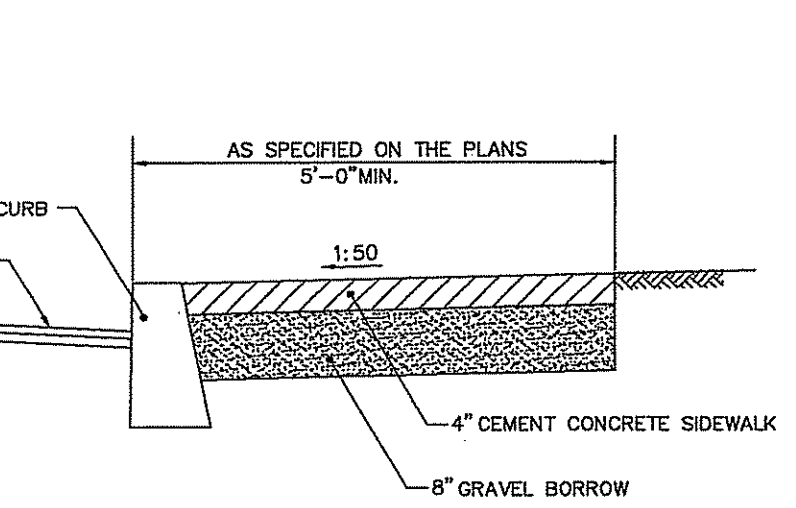
**ENTRANCE & PARKING LOT PAVEMENT DETAIL**  
N.T.S.



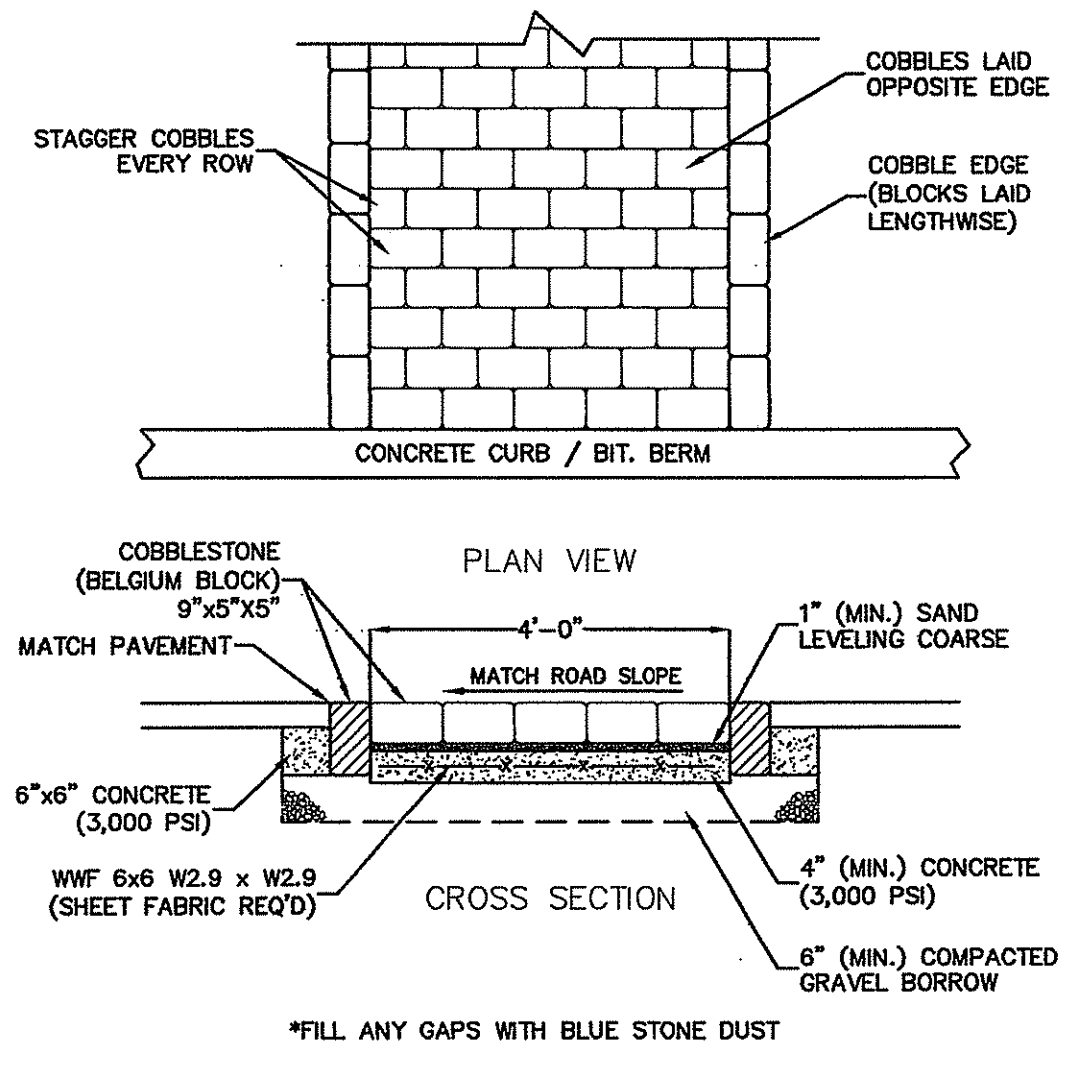
**WHEELCHAIR RAMP**  
N.T.S.

ROADWAY PROFILE GRADE (FT)	1	2	3	4	5	6	7	8	9	10	11	12	13	14
0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

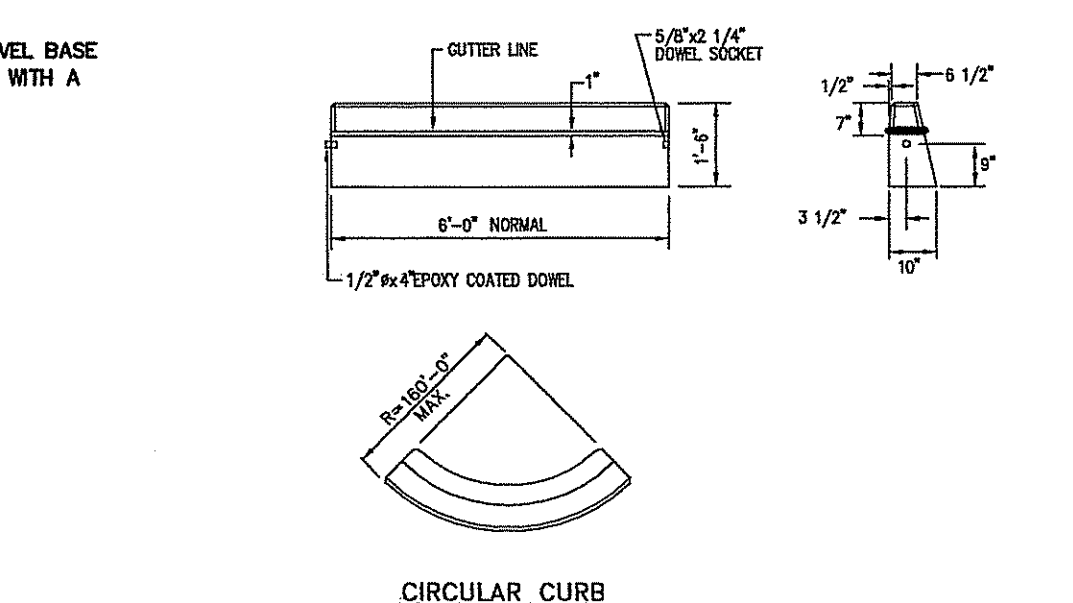
**CEMENT CONCRETE SIDEWALK**  
N.T.S.



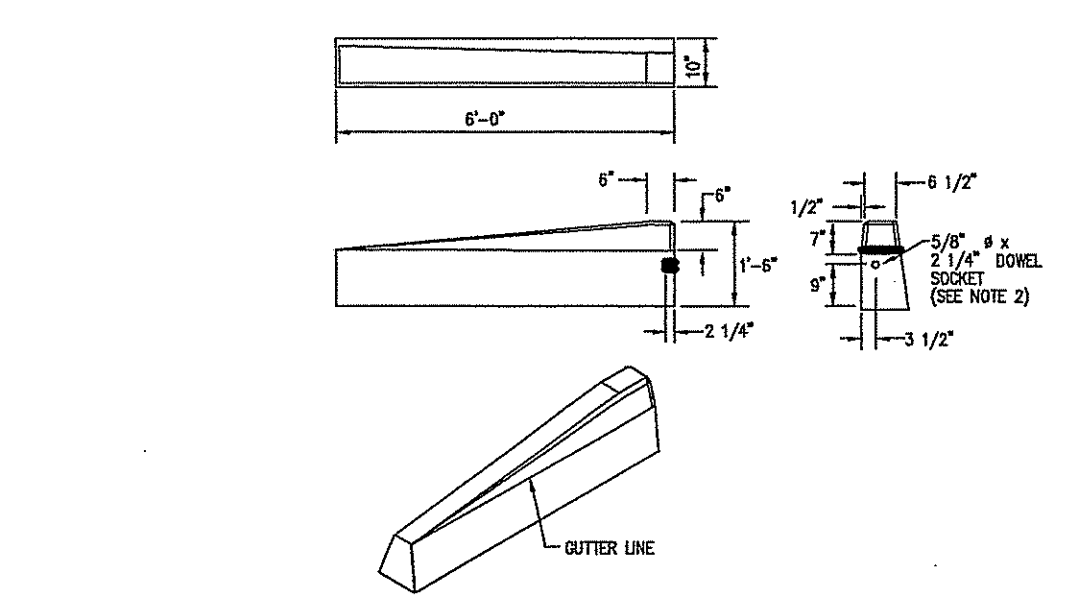
**CEMENT CONCRETE SIDEWALK**  
N.T.S.



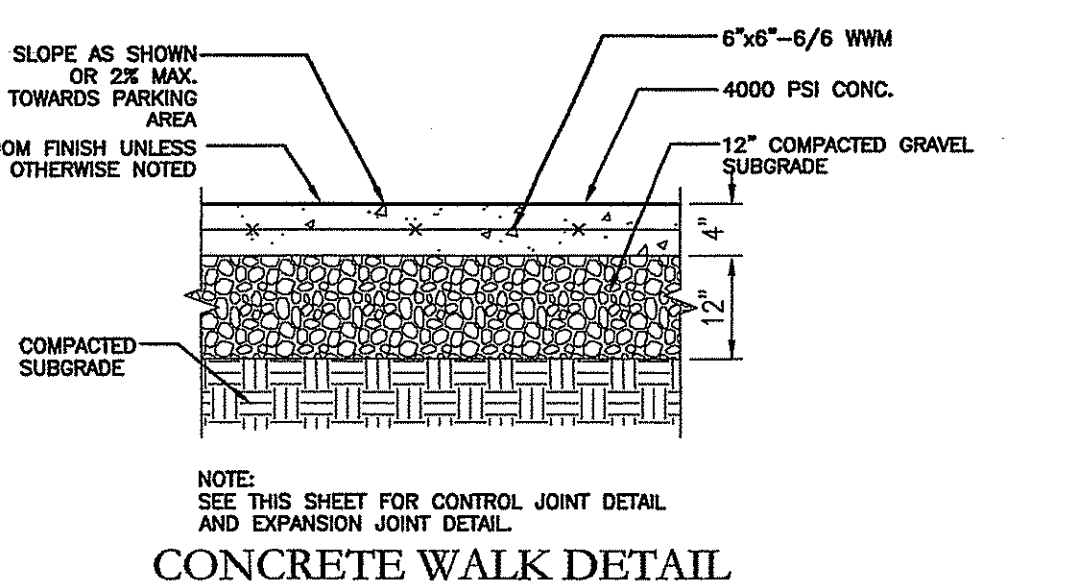
**COBBLESTONE BAND DETAIL**  
N.T.S.



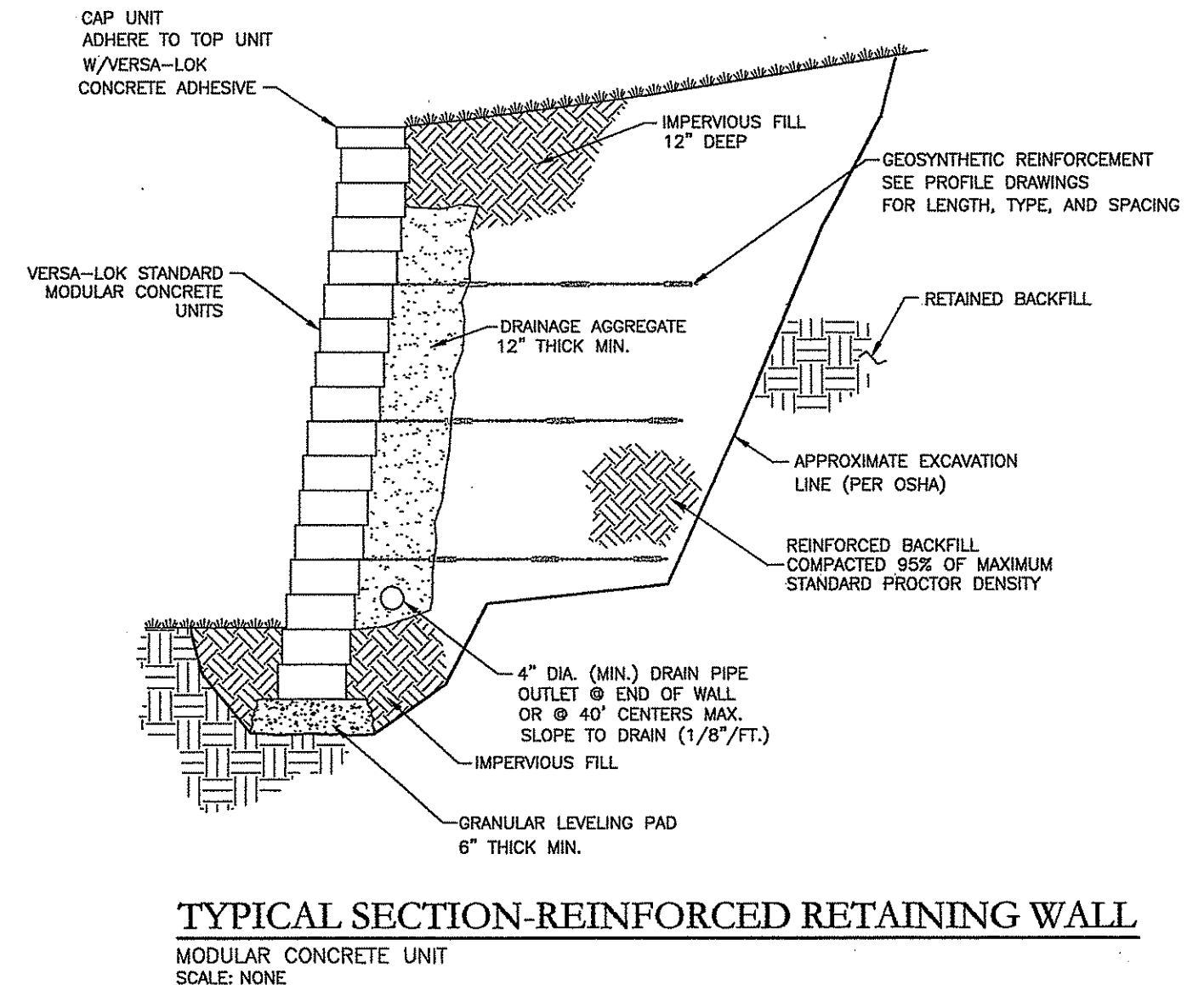
**PRECAST CONCRETE CURB**  
N.T.S.



**6\"/>**



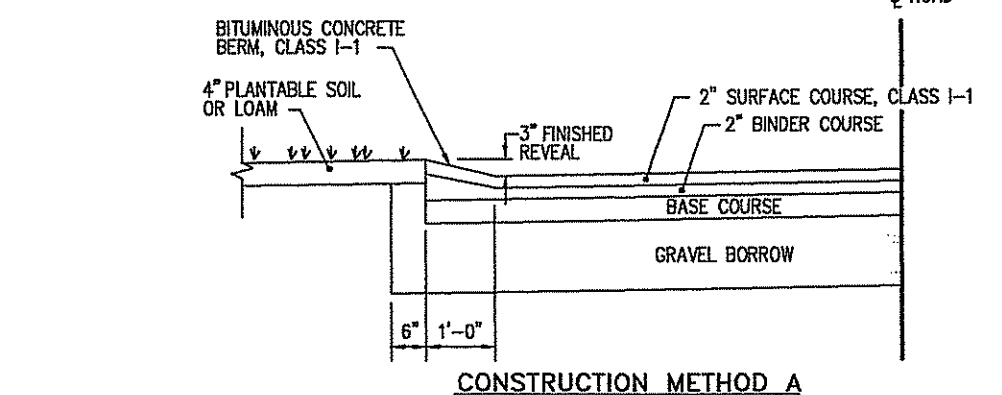
**CONCRETE WALK DETAIL**  
N.T.S.



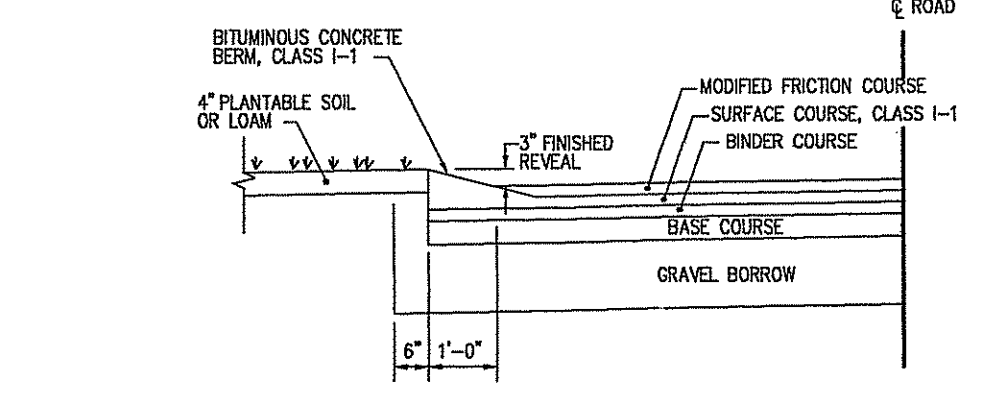
**TYPICAL SECTION-REINFORCED RETAINING WALL**  
MODULAR CONCRETE UNIT  
SCALE: NONE

IF CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.

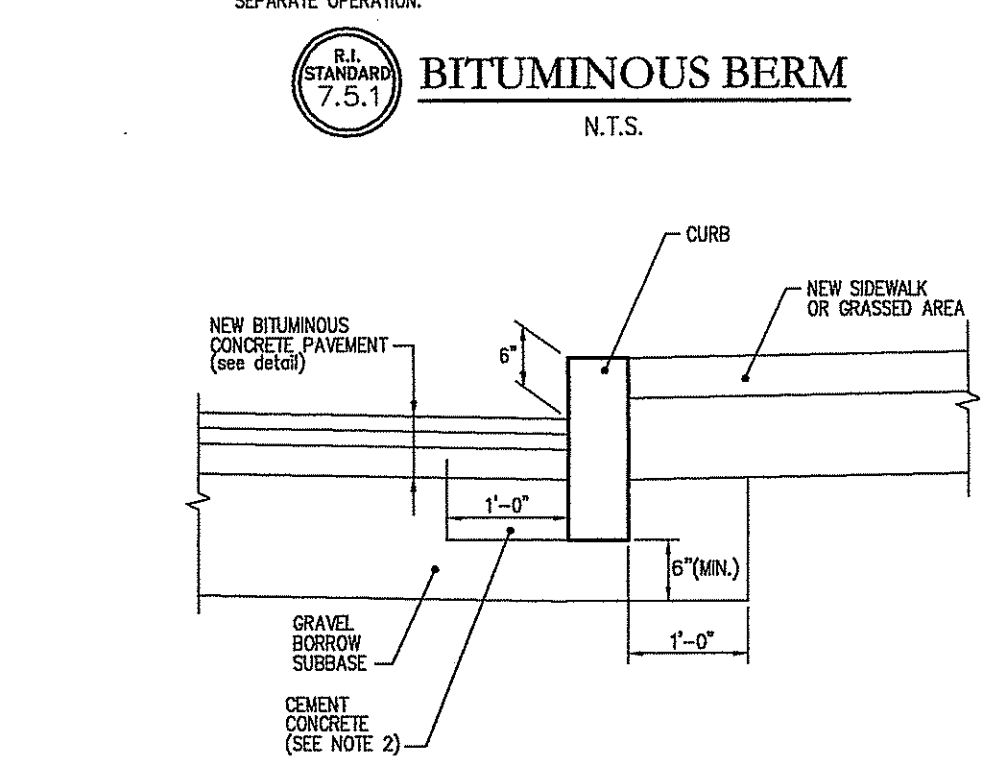
SEGMENTAL BLOCK RETAINING WALLS ARE TO BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. SHOP DRAWINGS TO BE PROVIDED TO THE SITE ENGINEER PRIOR TO CONSTRUCTION FOR APPROVAL.



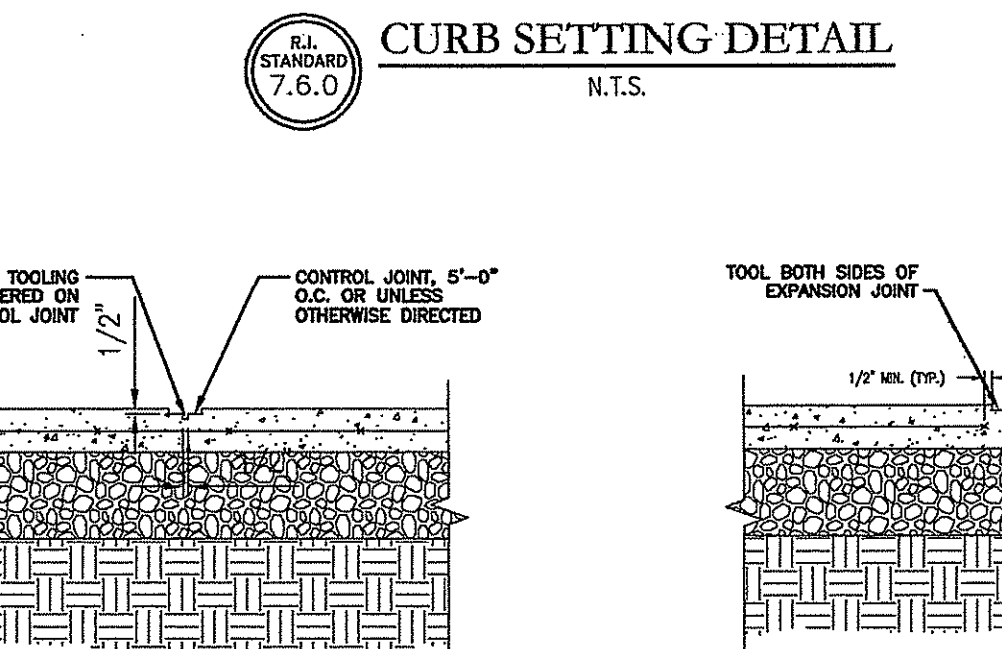
**CONSTRUCTION METHOD A**



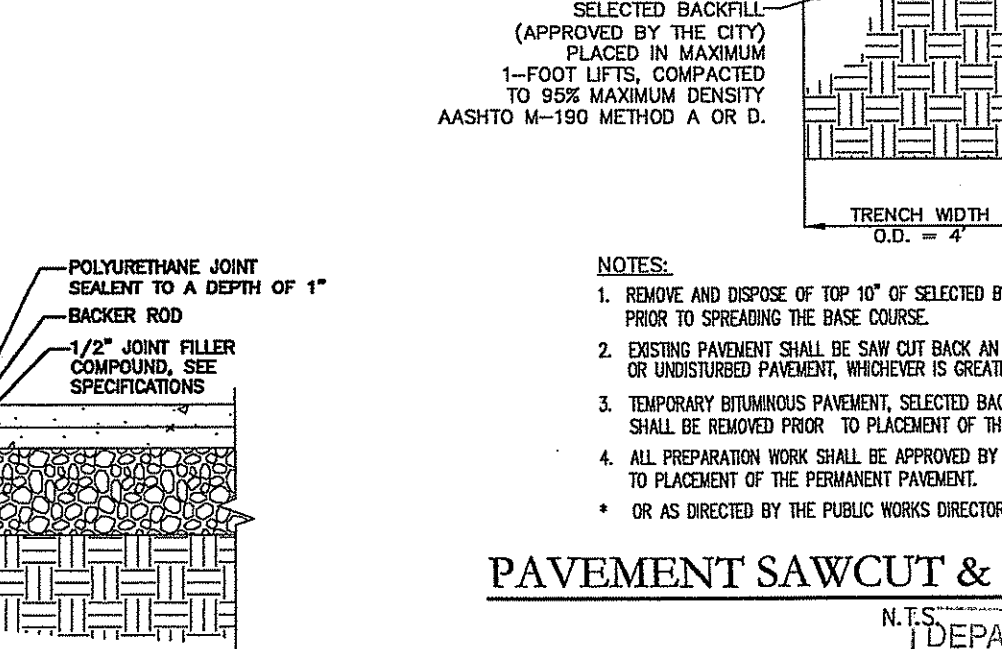
**CONSTRUCTION METHOD B**



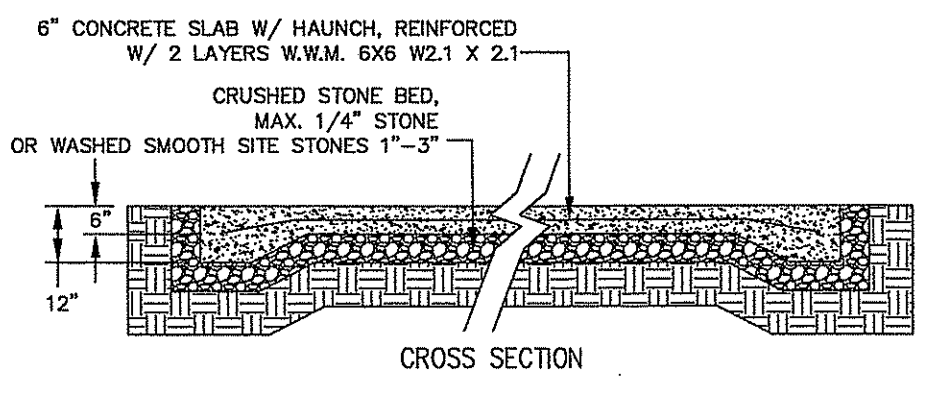
**CURB SETTING DETAIL**  
N.T.S.



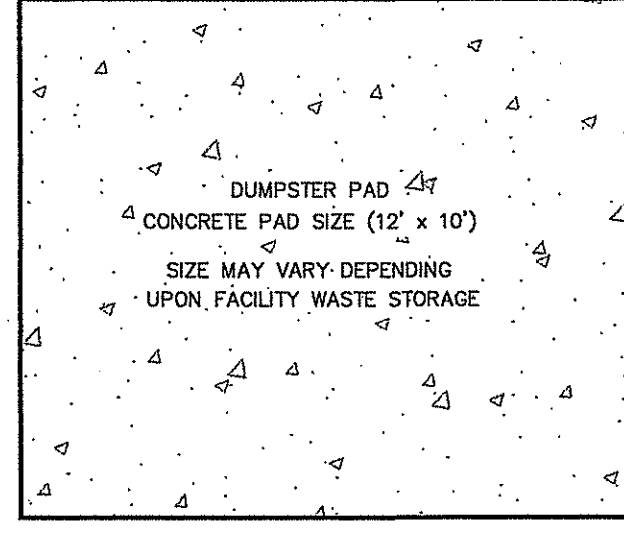
**CONTROL JOINT DETAIL**  
N.T.S.



**EXPANSION JOINT DETAIL**  
N.T.S.

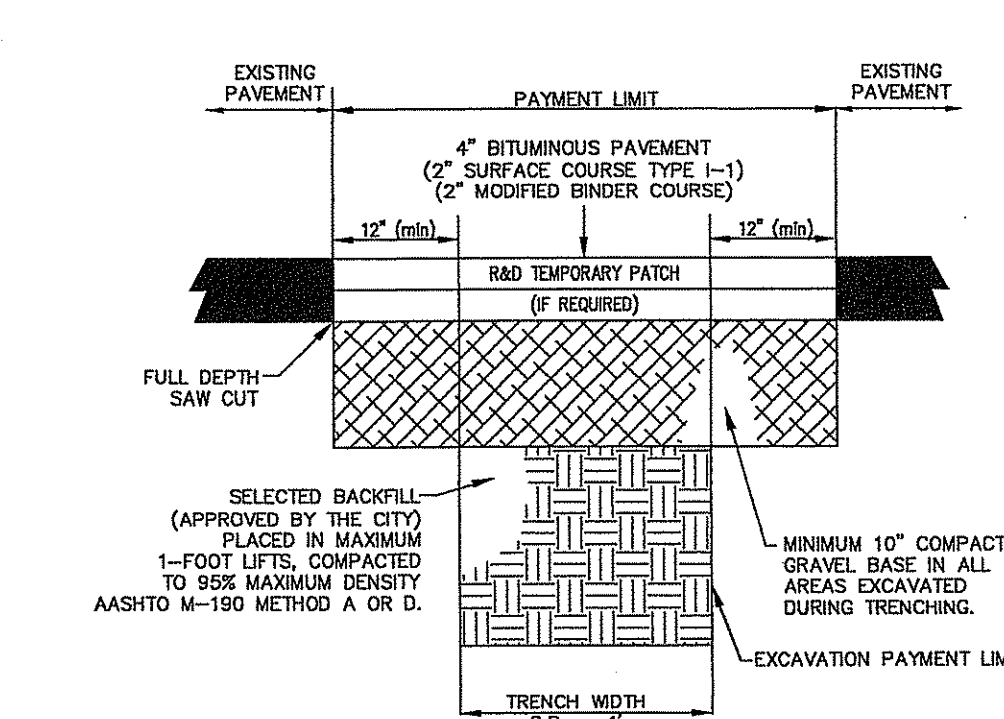


**CROSS SECTION**



**PLAN VIEW**

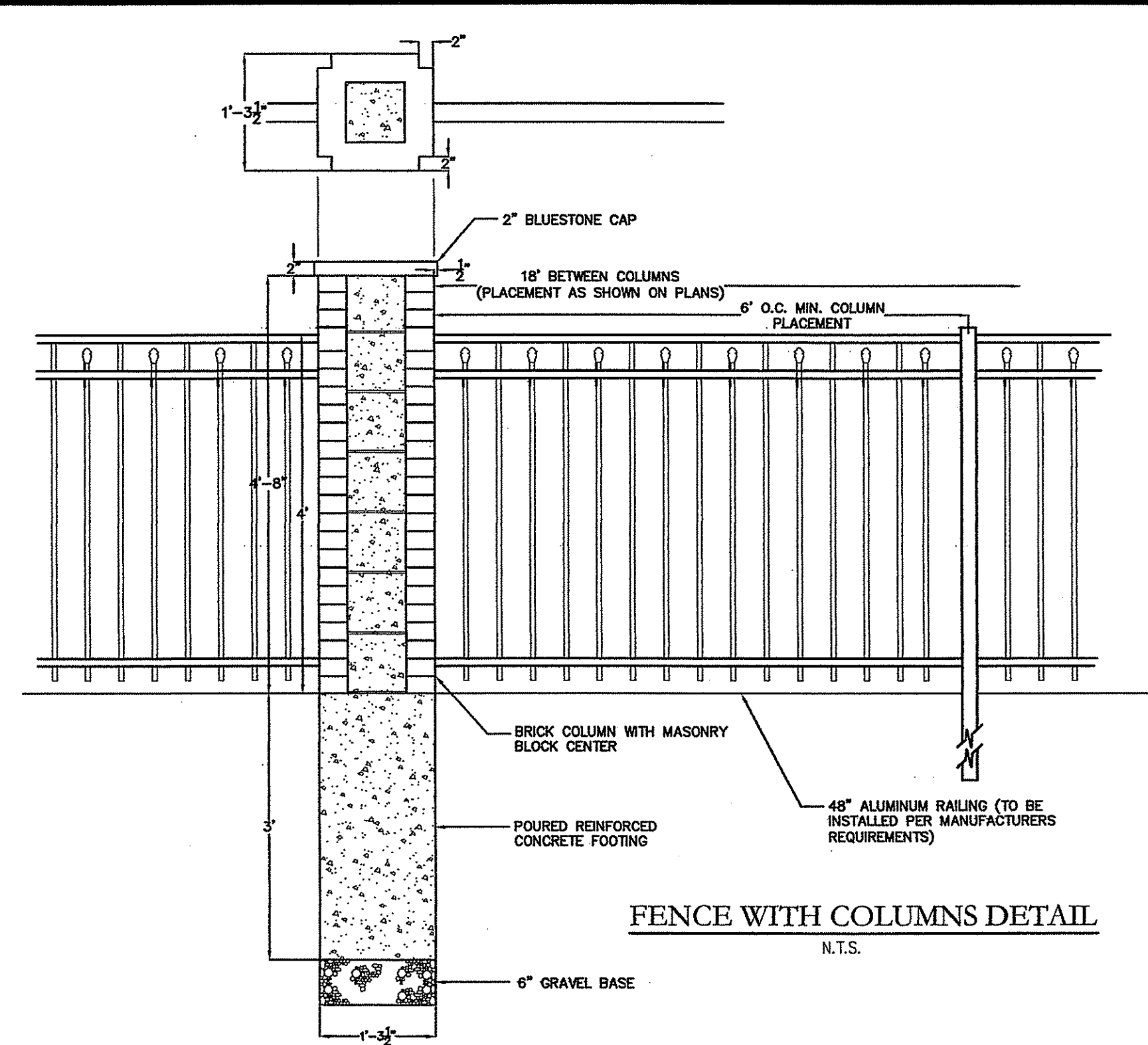
**CONCRETE DUMPSTER PAD**  
N.T.S.



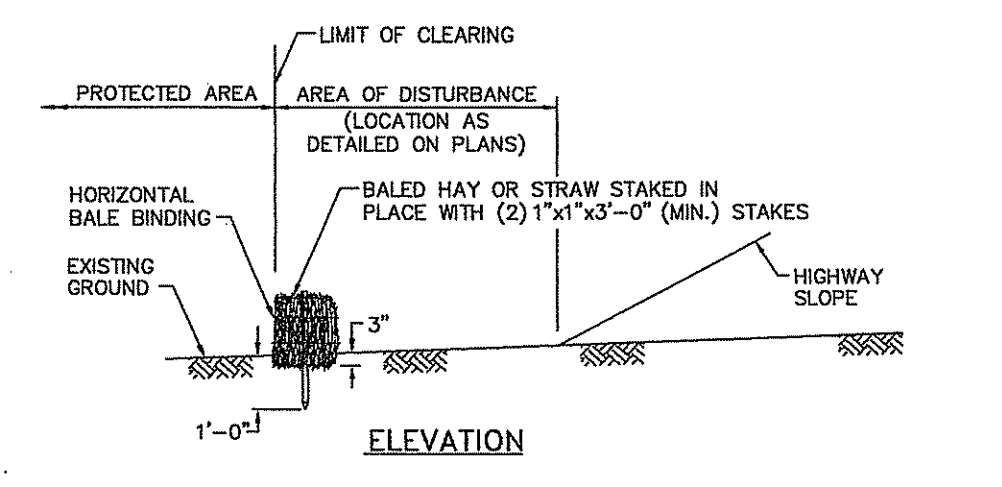
**PAVEMENT SAWCUT & PATCH DETAIL**  
N.T.S.

NOTES:  
1. REMOVE AND DISPOSE OF TOP 10\"/>

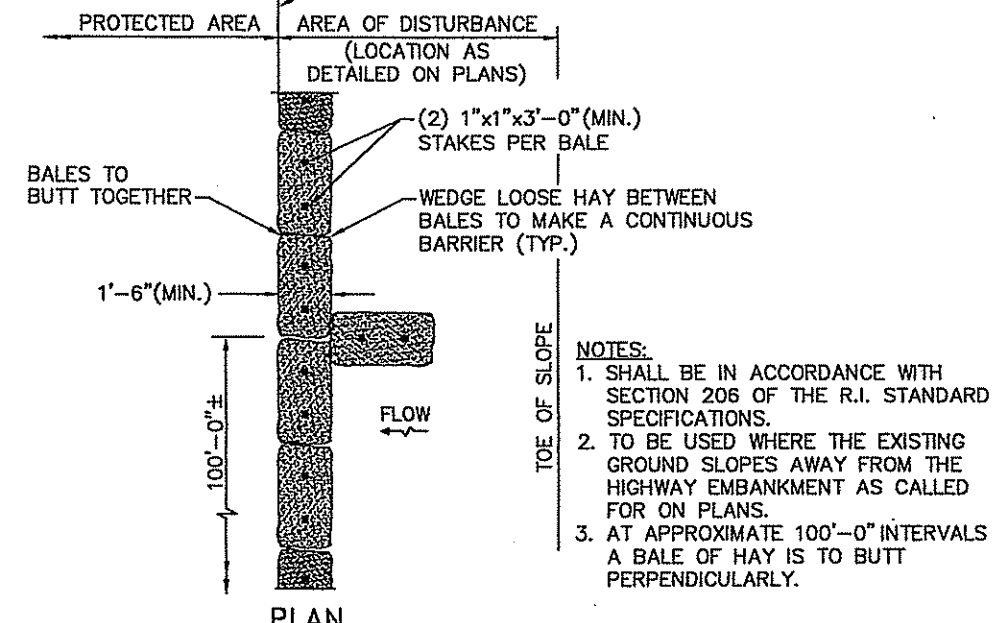
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED **MAY 2 2007** FILE # **07-0241**  
NO CHANGES ALLOWED WITHOUT WRITTEN APPROVAL  
DATE: 26 January 2007



**FENCE WITH COLUMNS DETAIL**  
N.T.S.

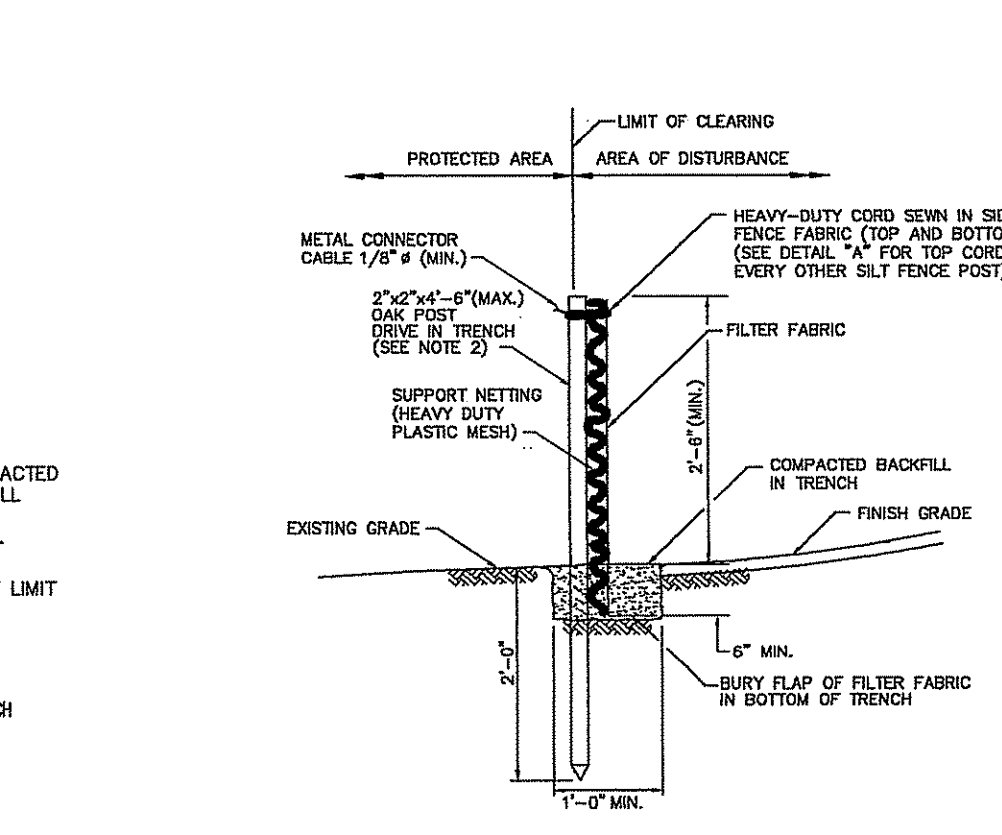


**ELEVATION**



**PLAN**

**BALED HAY EROSION CHECK**  
N.T.S.



**SILT FENCE DETAIL**  
N.T.S.

NO.	DATE	REVISION	BY

**Thalman Engineering Co., Inc.**  
Site/Civil Engineers • Land Planners  
600 Putnam Pike, Suite #7  
Greenville, Rhode Island 02828  
(401) 949-3040 • (401) 349-3041 (fax)

**Proposed Daycare Center**  
15 Church Street  
Greenville, Rhode Island 02828

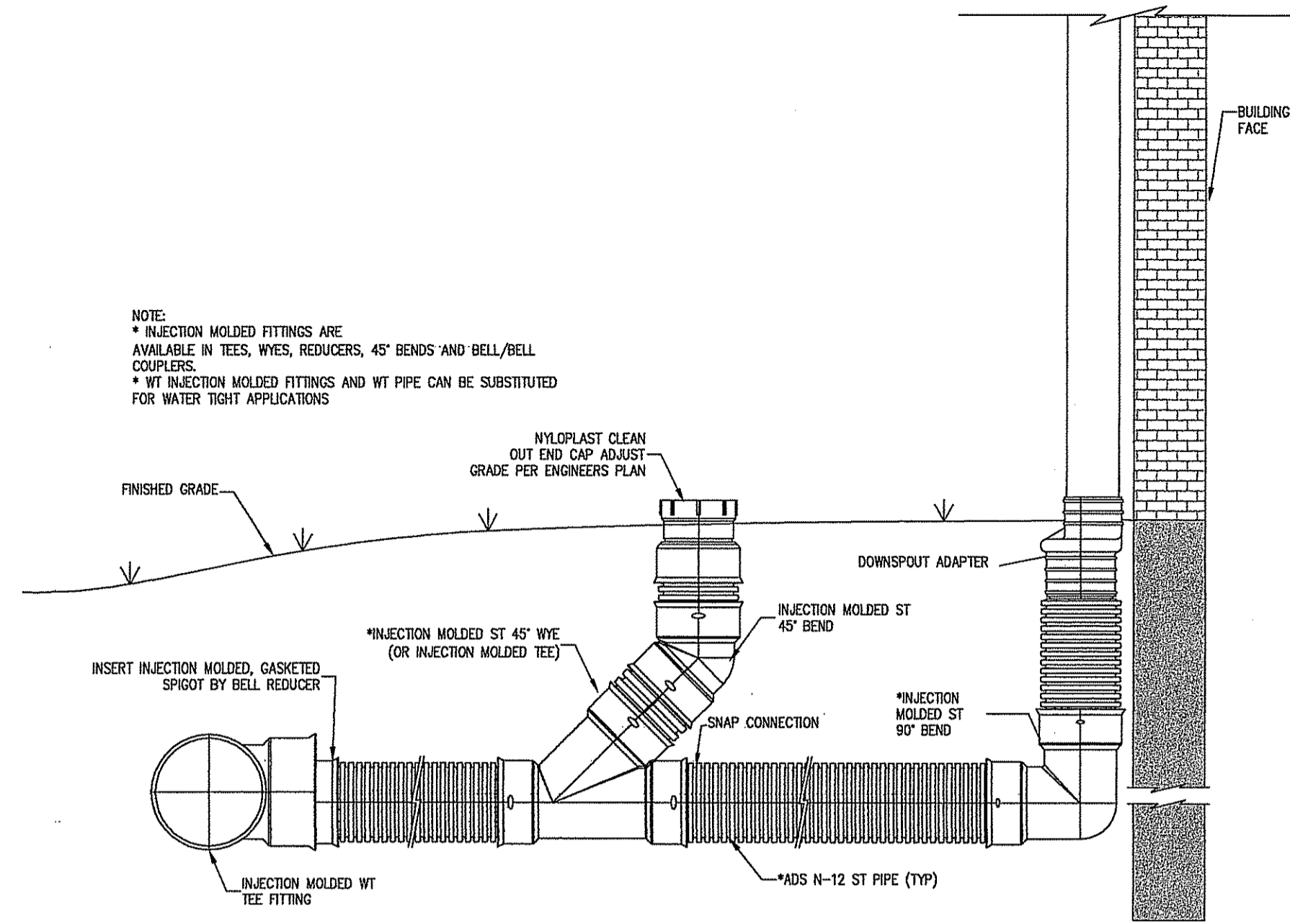
Prepared for:  
**Church Street Realty, LLC**  
610 Putnam Pike Greenville, RI 02828

Scale: As Noted

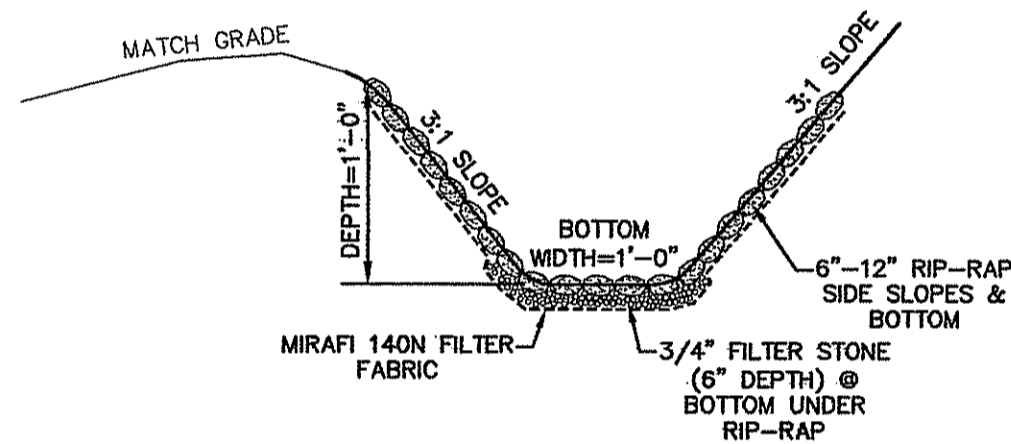
Design By: CSR  
Checked By: BPT  
Sheet **C-6** of 10  
FILE NO.: 06.074



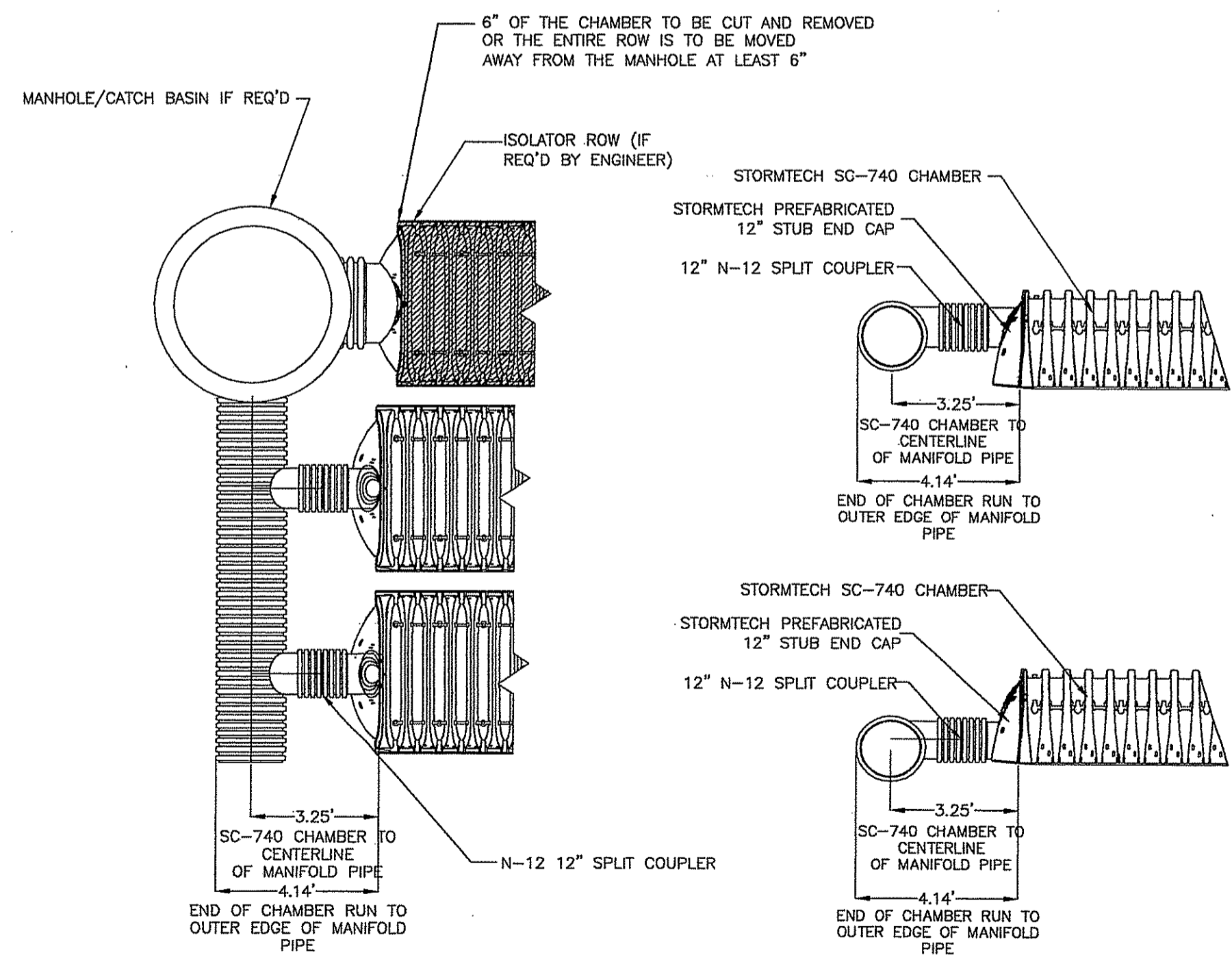
NOTE:  
 \* INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.  
 \* WY INJECTION MOLDED FITTINGS AND WY PIPE CAN BE SUBSTITUTED FOR WATER TIGHT APPLICATIONS



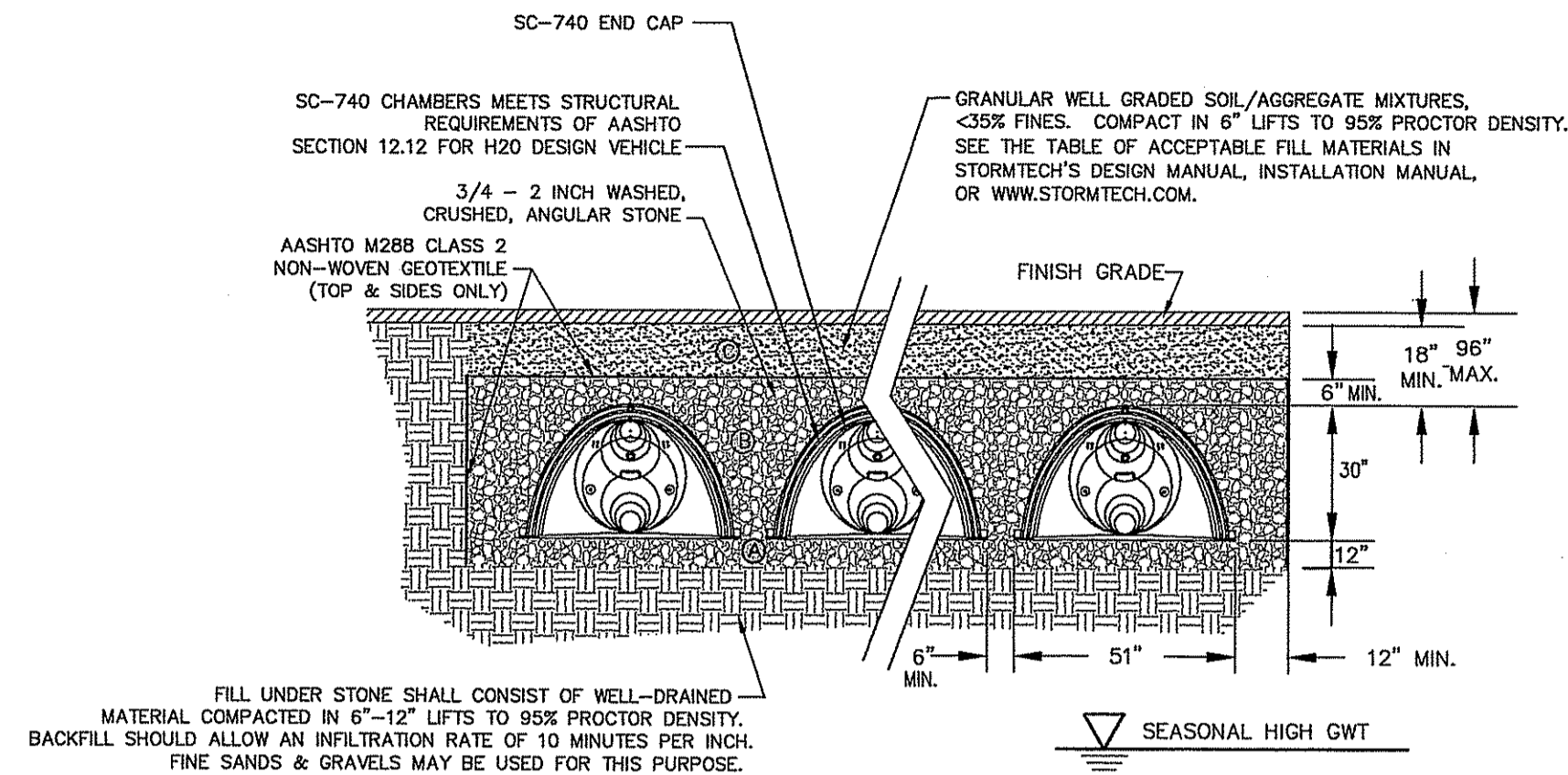
**ROOF DRAIN DETAIL WITH CLEANOUT**  
N.T.S.



**RIP-RAP CHANNEL**  
N.T.S.



**18"X12" MANIFOLD DETAIL**  
N.T.S.

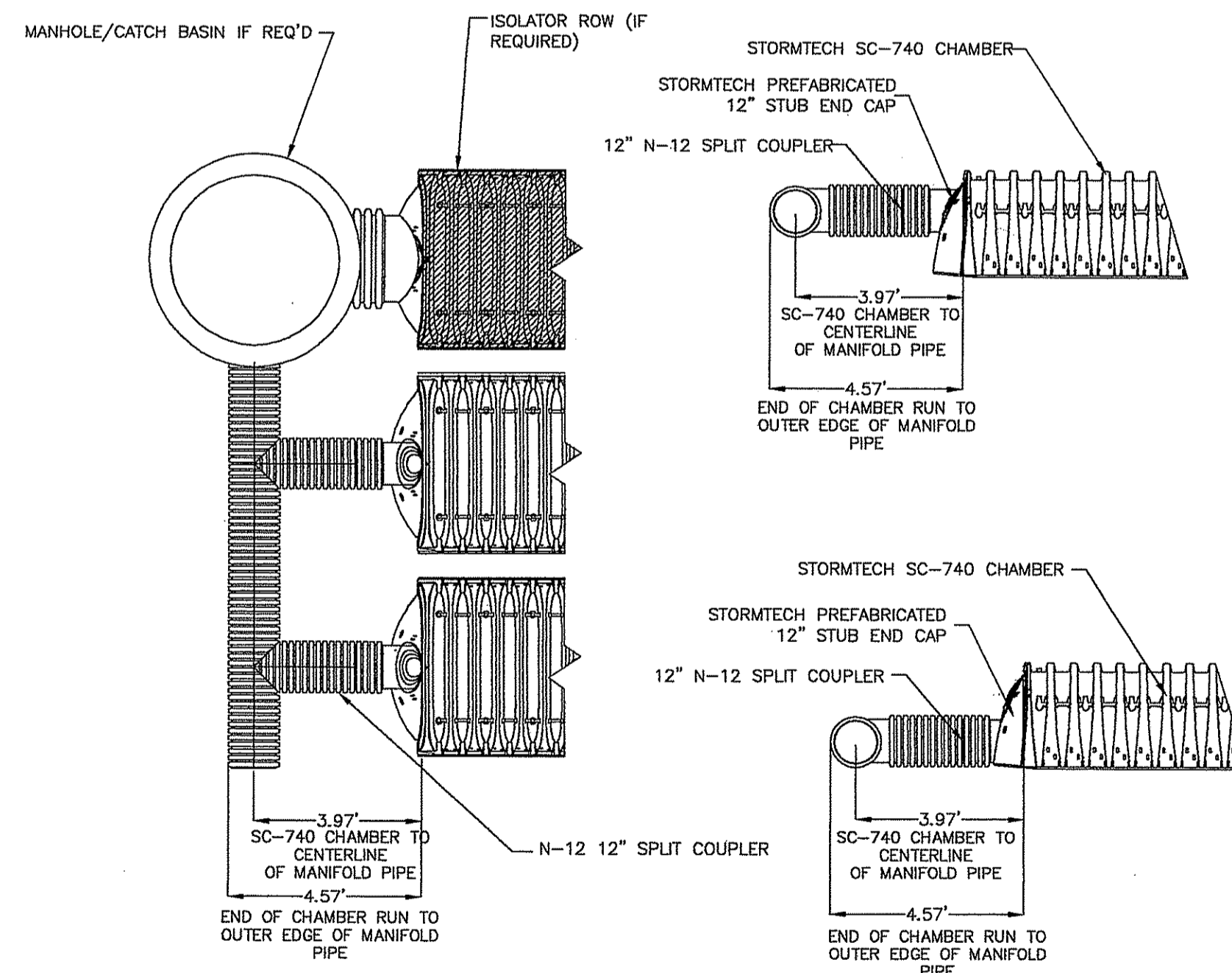


**STORMTECH SC-740 CHAMBER**  
**STORMWATER INFILTRATION SYSTEM**  
N.T.S.

MATERIAL LOCATION	DESCRIPTION	AASHTO M83 DESIGNATION	AASHTO M46 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	N/A	PREPARE PER ENGINEER'S PLANS, PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
FILL MATERIAL FOR 6" TO 18" ELEVATION ABOVE CHAMBERS (2" FOR UNPAVED INSTALLATIONS)	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES.	3, 357, 4, 467, 5, 96, 6, 7, 6, 8, 95, 9, 95	A-1, A-2, A-3	COMPACT IN 6" LIFTS TO A MINIMUM 90% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS.
EMBEDMENT STONE SURROUNDING AND TO A 6" ELEVATION ABOVE CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 1/2" - 2 INCH	3, 357, 4, 467, 4, 5, 95, 5, 95	N/A	NO COMPACTION REQUIRED
FOUNDATION STONE BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 1/2" - 2 INCH	3, 357, 4, 467, 4, 5, 95, 5, 95	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY

PLEASE NOTE: THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE WASHED CRUSHED ANGULAR. FOR EXAMPLE, THE STONE MUST BE SPECIFIED AS WASHED, CRUSHED, ANGULAR NO. 4 STONE.

**ACCEPTABLE FILL MATERIALS**  
**STORMTECH SC-740 CHAMBER SYSTEMS**



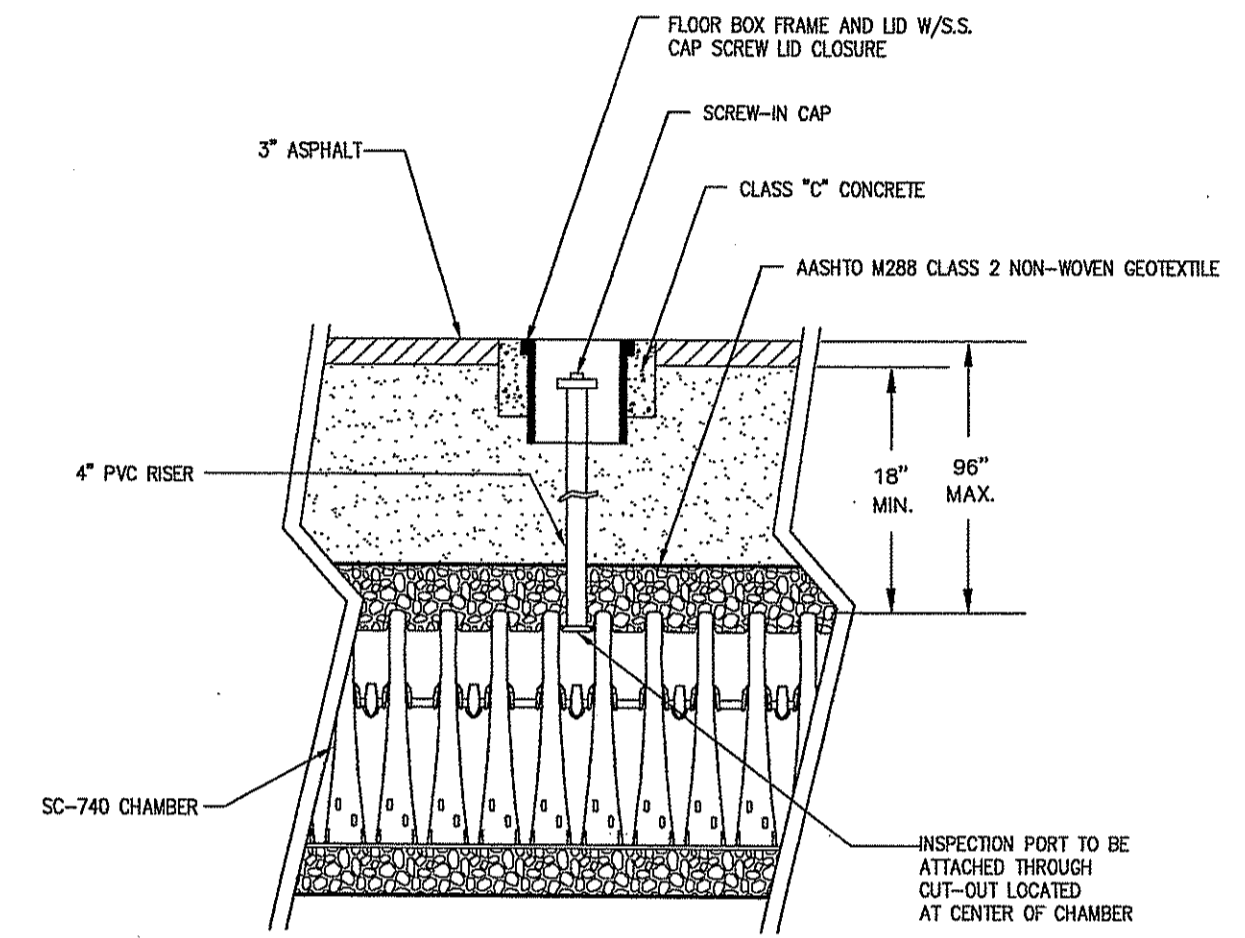
**12"X12" MANIFOLD DETAIL**  
N.T.S.

**Invert Schedule**

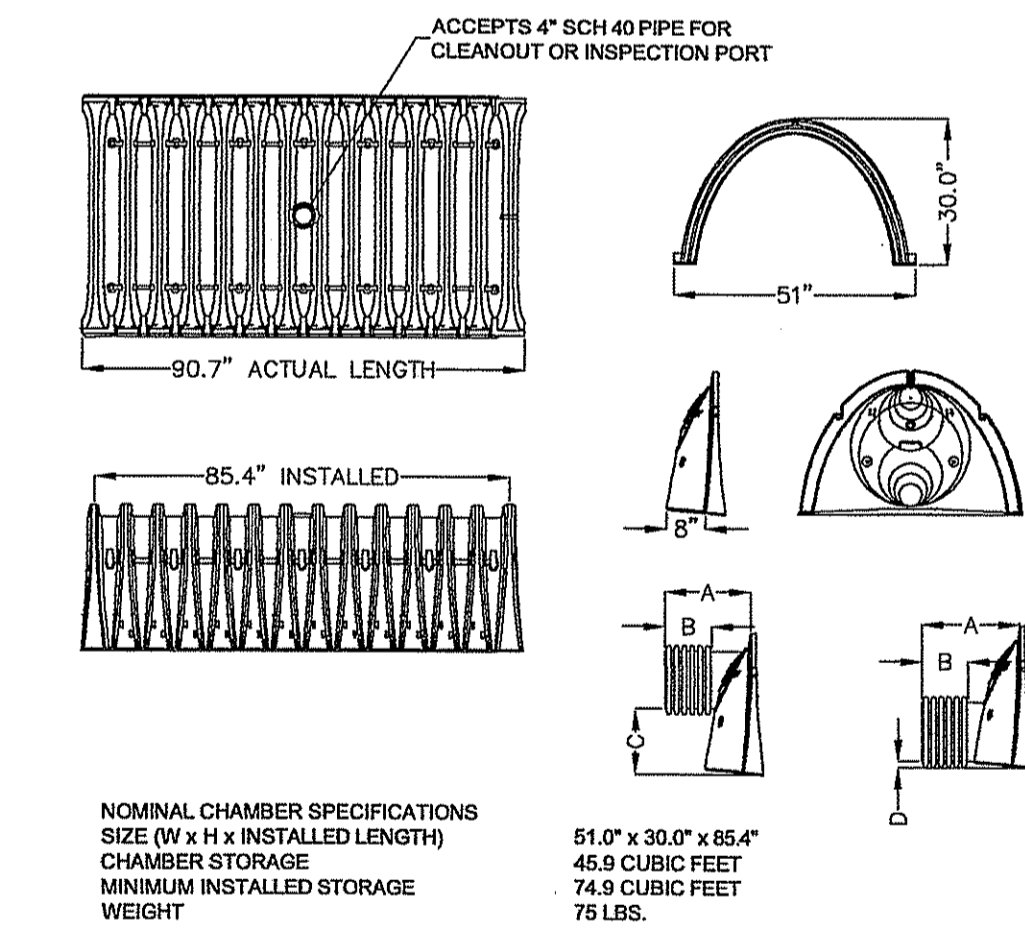
EXISTING GRADE	278.00
SEASONAL HIGH GWT	272.00
BOTTOM OF STONE	275.00
BOTTOM OF CHAMBERS	275.50
LOW INVERT (VARIES)	275.50
TOP OF CHAMBERS	278.00
TOP OF STONE	278.50
PROPOSED GRADE (MIN.)	280.00

**Stormtech General Notes:**

- ALL DESIGN SPECIFICATIONS FOR STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL.
- THE INSTALLATION OF STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND SAFETY FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. LOADS SHALL BE CALCULATED IN ACCORDANCE WITH SECTION 3 AND SHALL INCLUDE H20 DESIGN TRUCK, IMPACT FACTOR, MULTIPLE PRESENCE, AND LANE LOAD.



**STORMTECH SC-740 INSPECTION PORT**  
N.T.S.



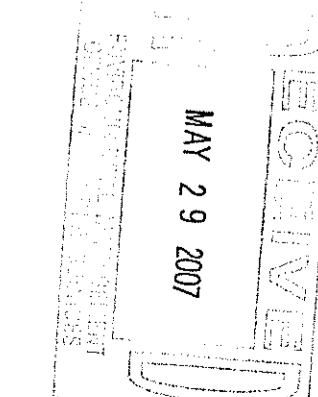
STUBS AT TOP OF END CAP FOR PARTS NUMBERS ENDING WITH "1"

PART #	CHAMBER	PIPE SIZE	A	B	C	D
SC740EP06T	SC 740	6 in (150 mm)	10.90 in (277 mm)	3.85 in (98 mm)	18.50 in (470 mm)	N/A
SC740EP06B	SC 740	6 in (150 mm)	10.90 in (277 mm)	3.85 in (98 mm)	N/A	0.50 in (13 mm)
SC740EP12T	SC 740	12 in (300 mm)	14.70 in (373 mm)	7.70 in (196 mm)	12.50 in (318 mm)	N/A
SC740EP12B	SC 740	12 in (300 mm)	14.70 in (373 mm)	7.70 in (196 mm)	N/A	1.20 in (30 mm)
SC740EP15T	SC 740	15 in (375 mm)	18.40 in (468 mm)	10.36 in (263 mm)	8.00 in (203 mm)	N/A
SC740EP15B	SC 740	15 in (375 mm)	18.40 in (468 mm)	10.36 in (263 mm)	N/A	1.30 in (33 mm)
SC740EP18T	SC 740	18 in (460 mm)	19.70 in (500 mm)	10.72 in (272 mm)	5.00 in (127 mm)	N/A
SC740EP18B	SC 740	18 in (460 mm)	19.70 in (500 mm)	10.72 in (272 mm)	N/A	1.60 in (41 mm)
SC740EP24B	SC 740	24 in (600 mm)	18.50 in (470 mm)	8.45 in (214 mm)	N/A	0.10 in (3 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL.

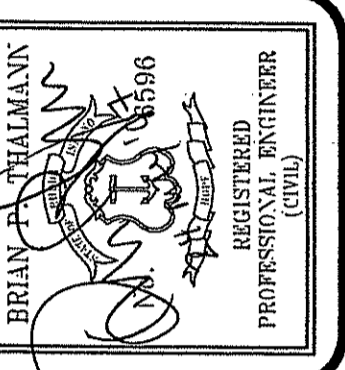
**STORMTECH SC-740 CHAMBER**  
N.T.S.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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*Madeline D. Wenzel*

BY	
REVISION	
DATE	
NO.	

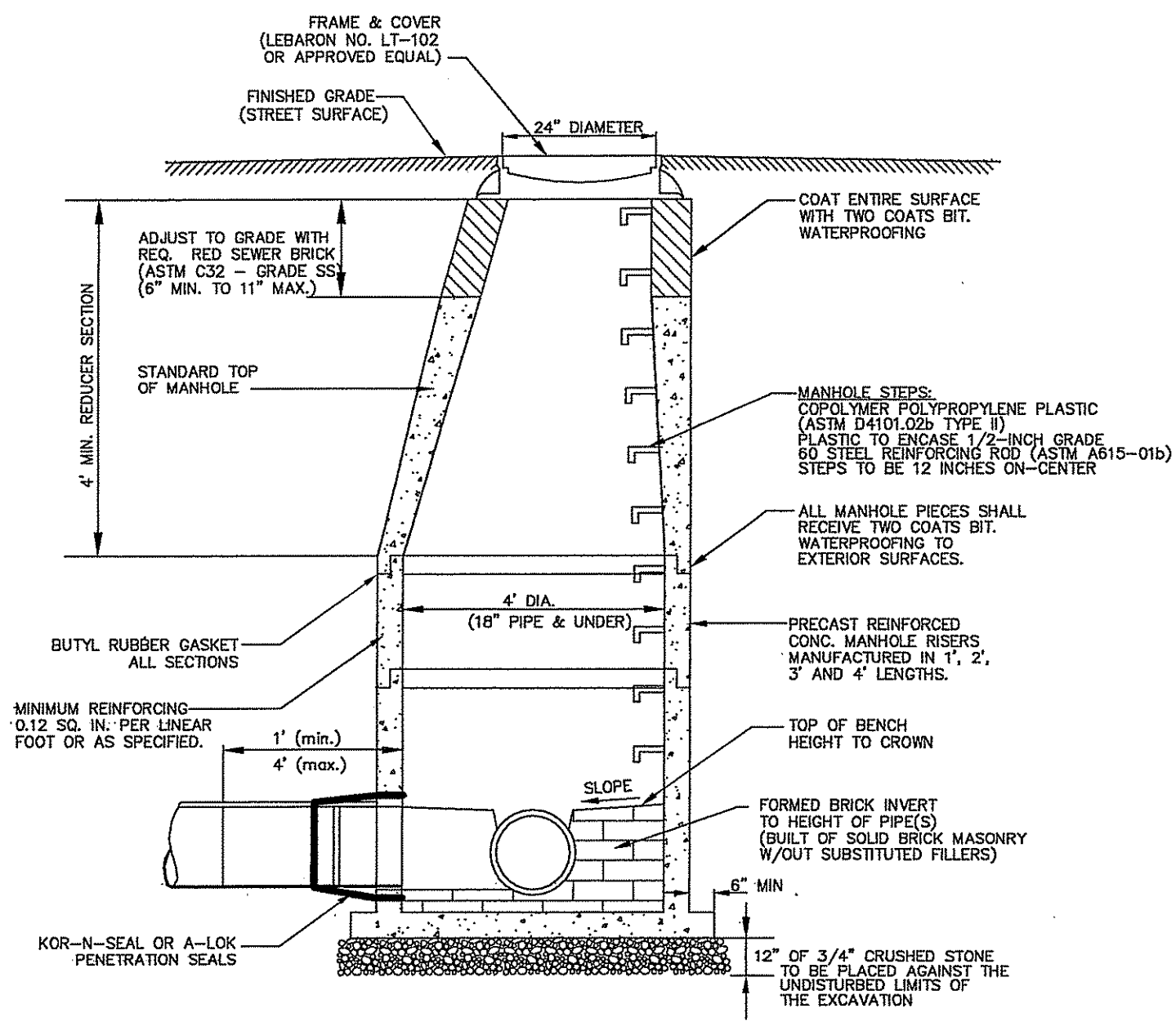


**Thalman Engineering Co., Inc.**  
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 600 Putnam Pike, Suite #7  
 Greenville, Rhode Island 02828  
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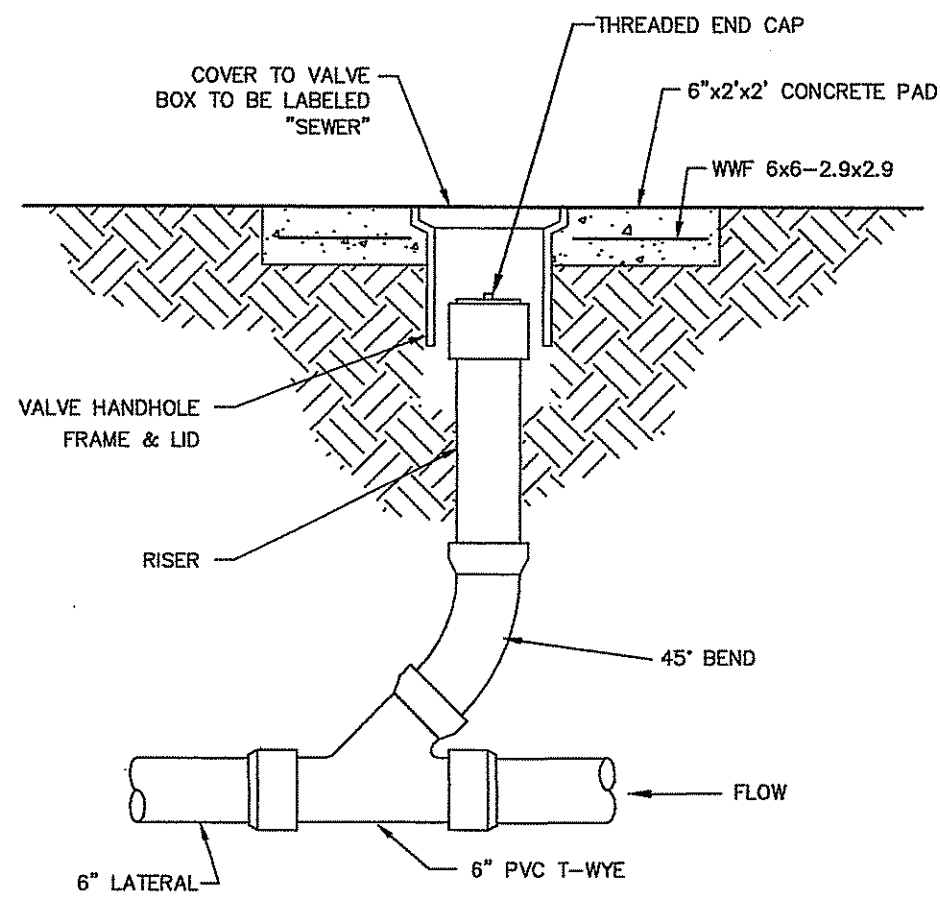
Details  
**Proposed Daycare Center**  
 15 Church Street  
 Prepared for:  
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 610 Putnam Pike Greenville, RI 02828  
 scale: As Noted  
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Design By: CSR  
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**C-8**  
 of 10  
 FILE NO.: 06.074

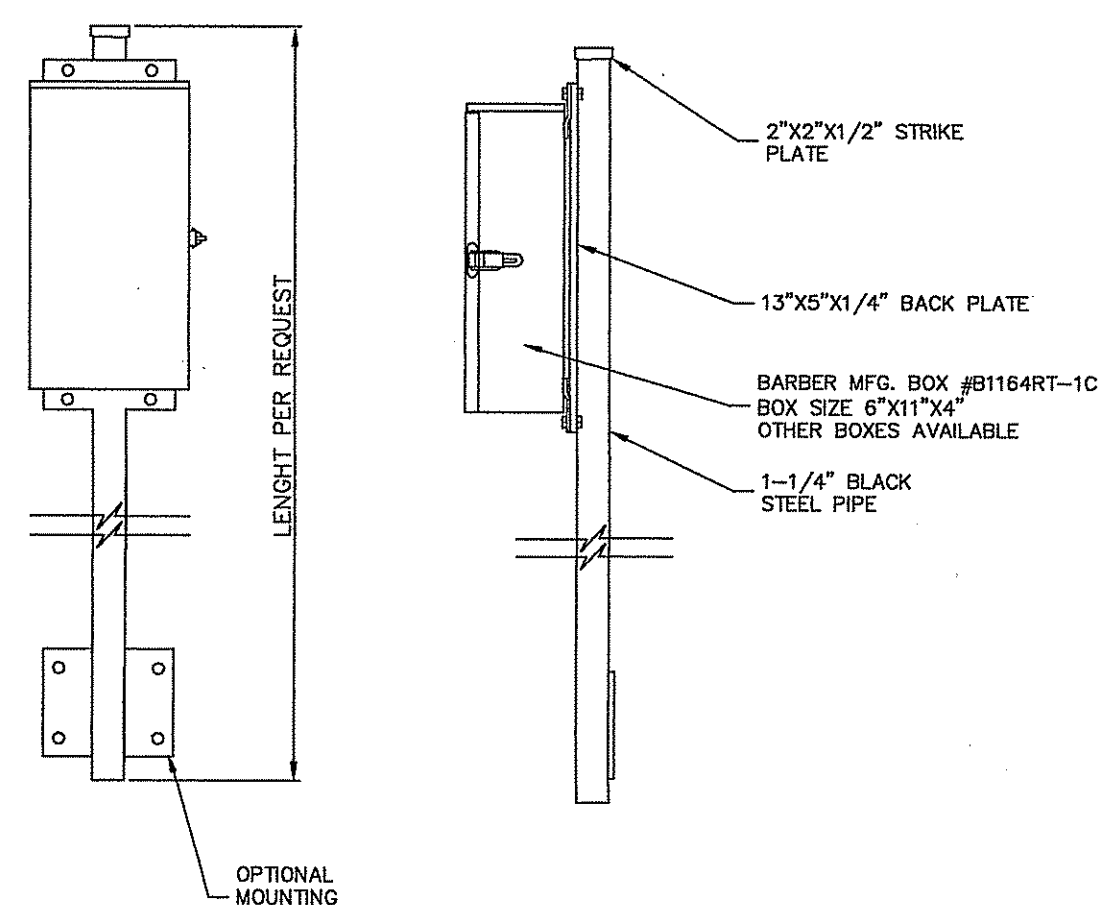
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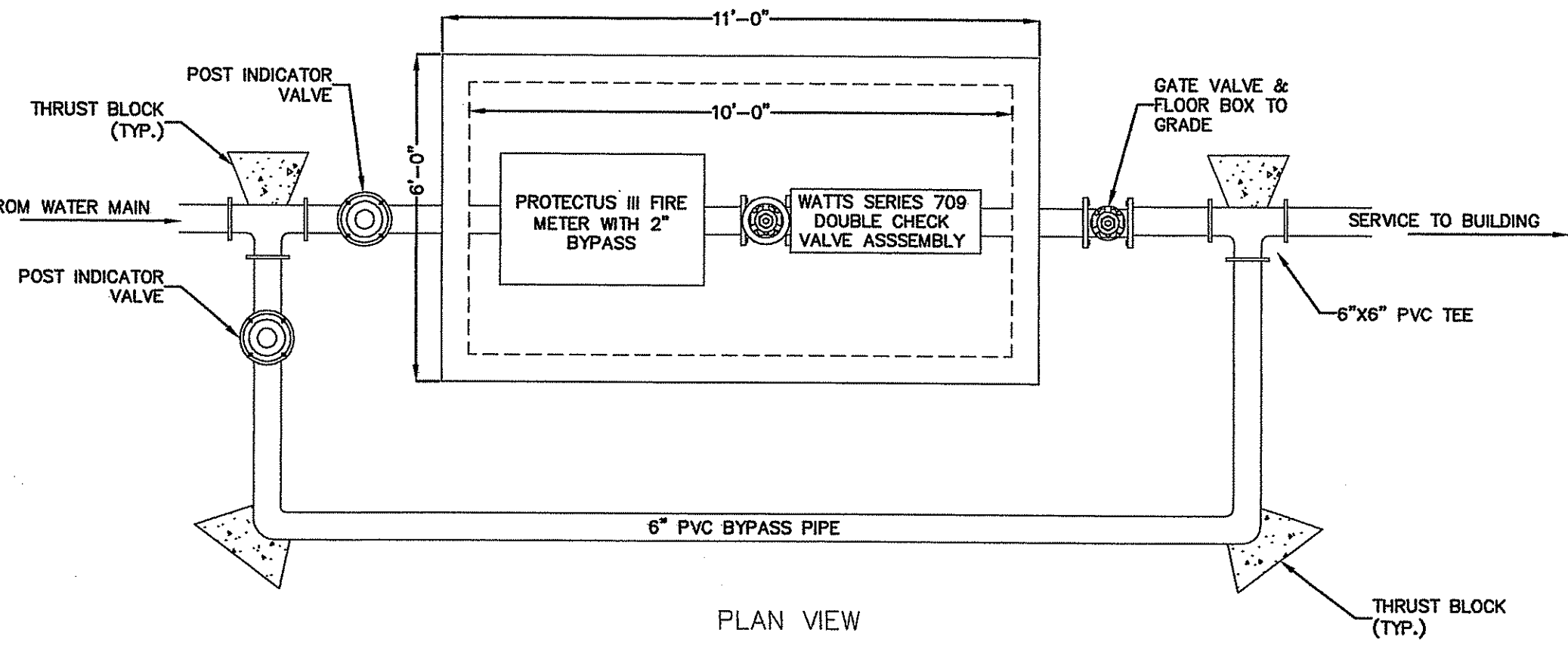
**SANITARY SEWER MANHOLE DETAIL**  
N.T.S.



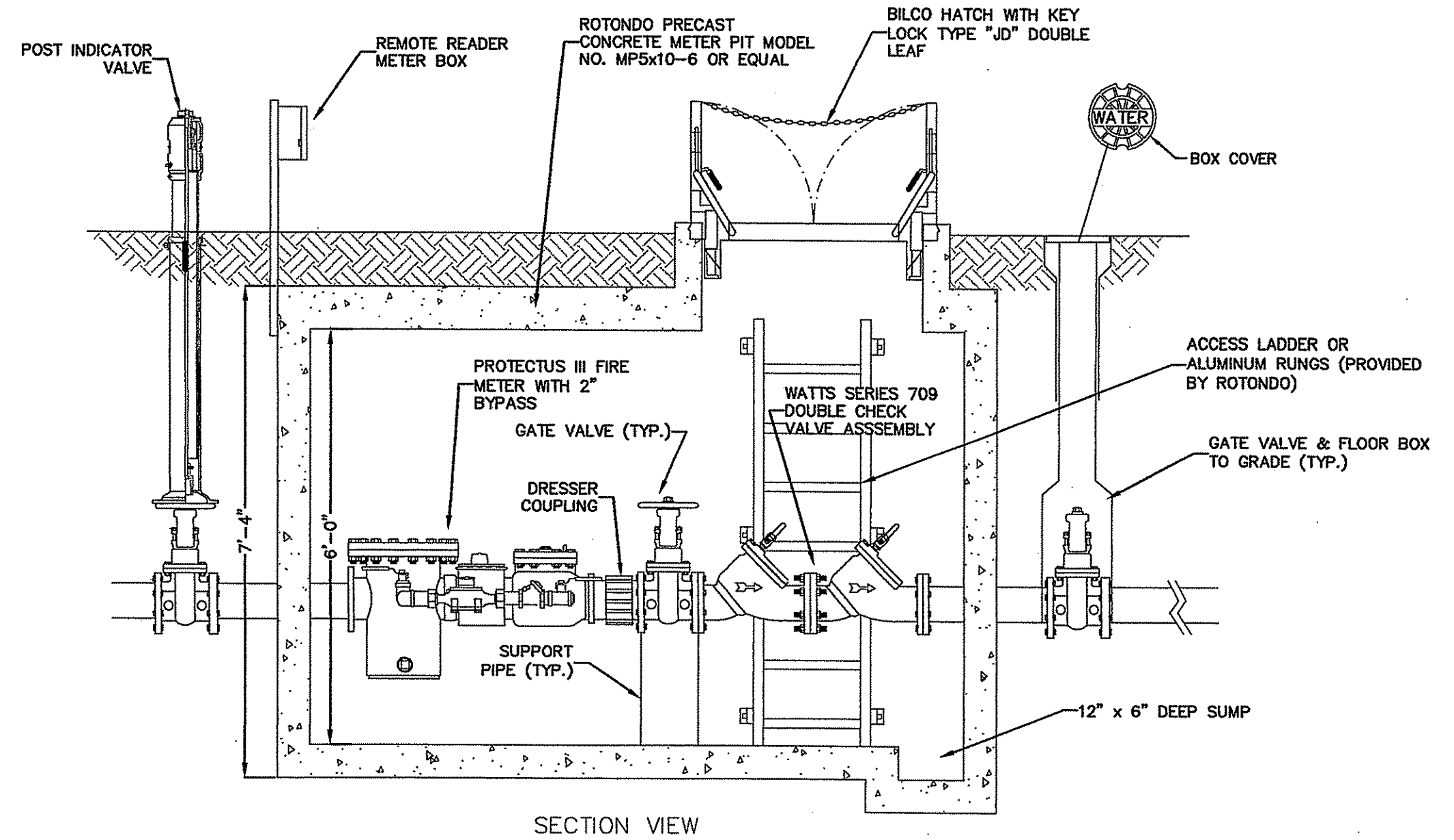
**CLEANOUT DETAIL**  
N.T.S.



**REMOTE METER READER BOX**  
N.T.S.

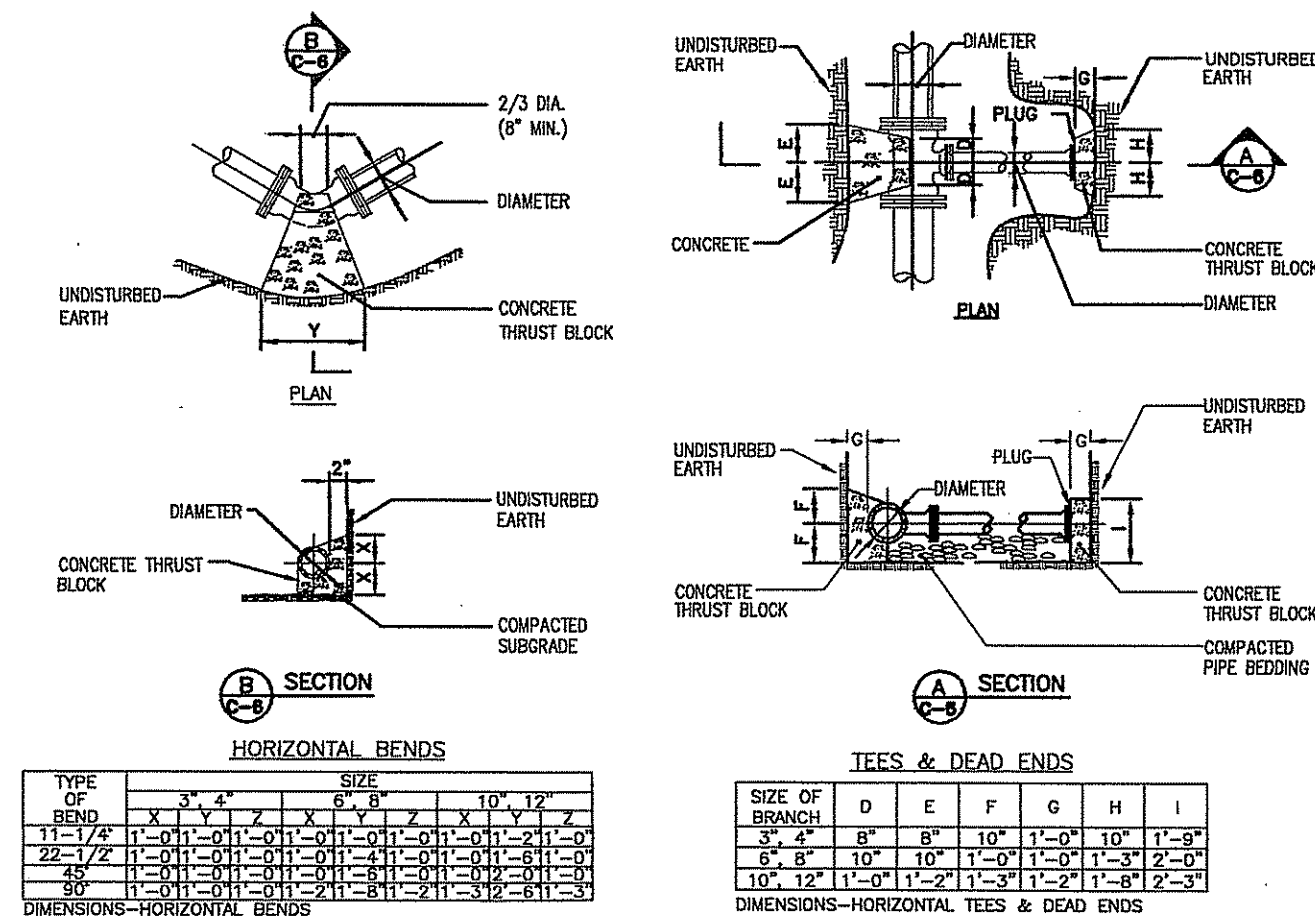


PLAN VIEW



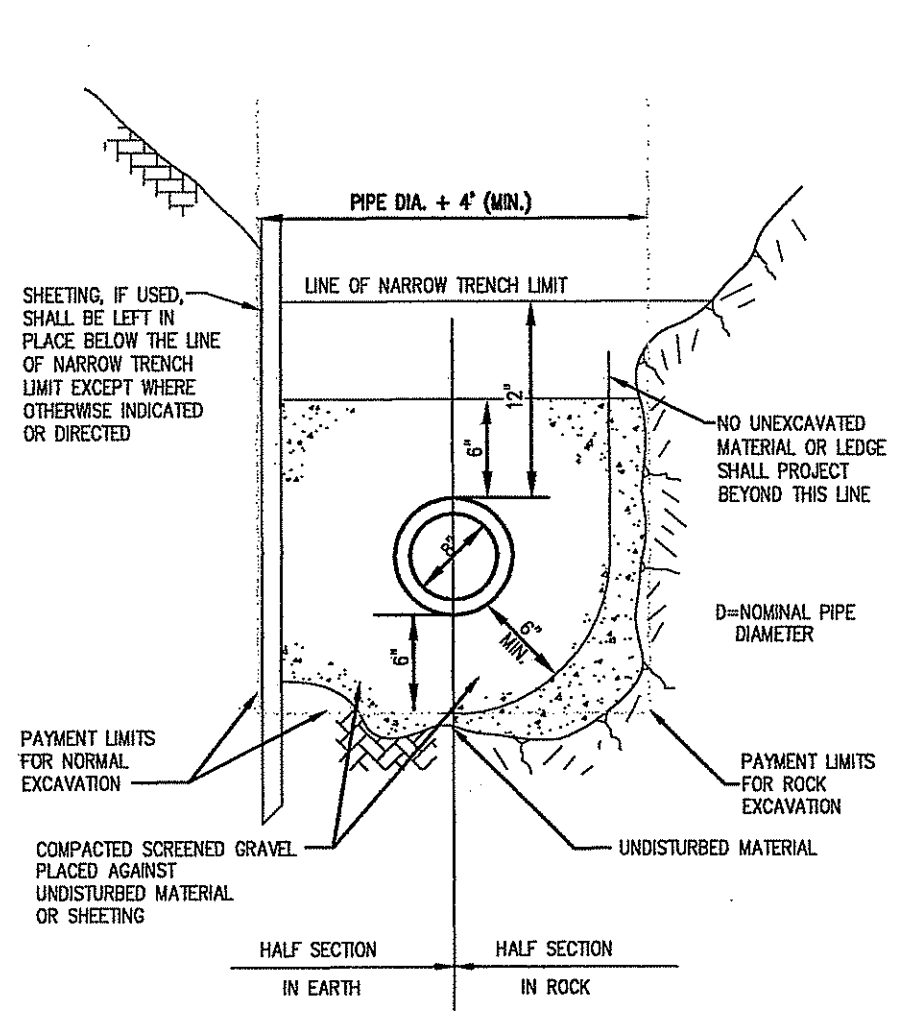
SECTION VIEW

**WATER METER PIT**  
SPECIFIED TO GREENVILLE WATER DISTRICT  
N.T.S.

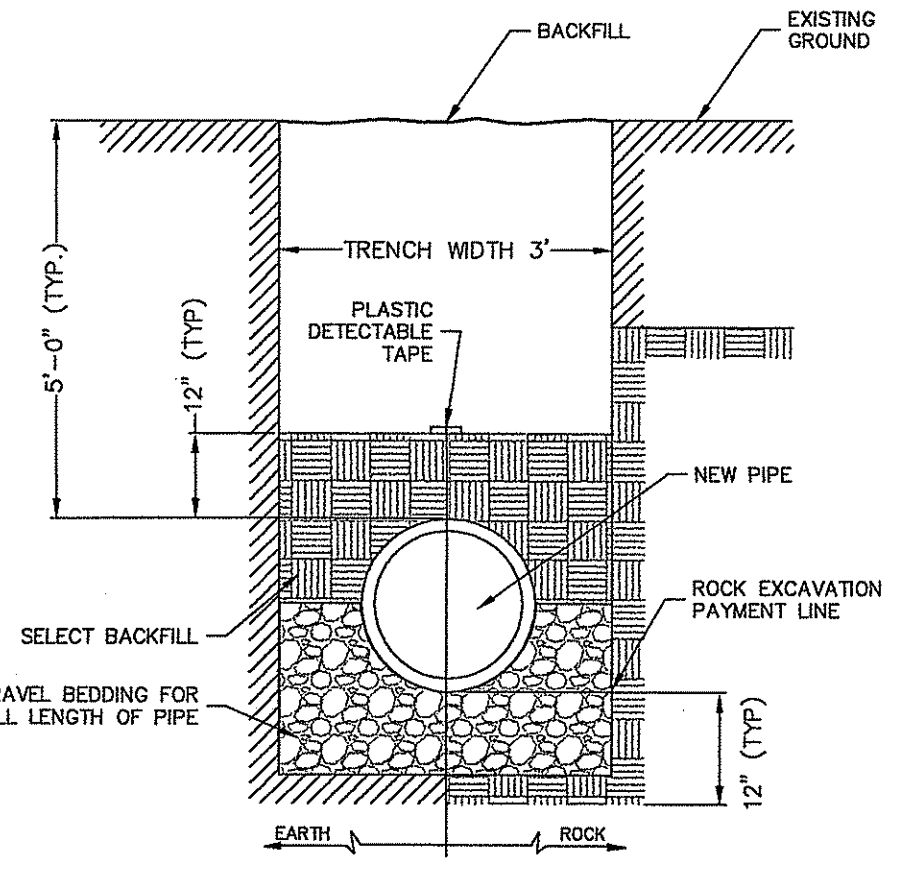


**HORIZONTAL THRUST BLOCK DETAILS**  
N.T.S.

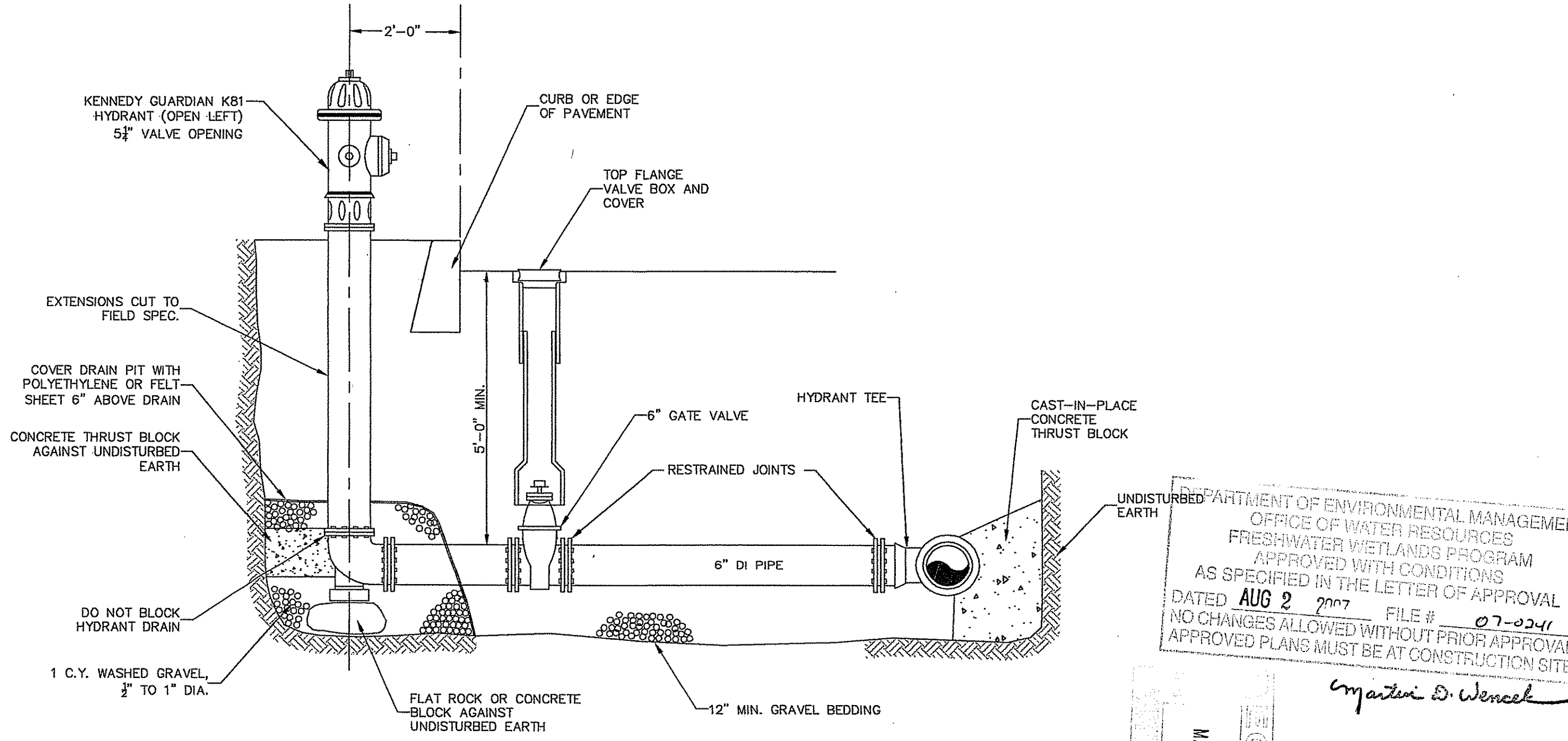
HORIZONTAL BENDS											
TYPE OF BEND	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
3/4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
1 1/4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
1 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
2 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
3"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
3 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
4 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
5"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
5 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
6"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
6 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
7"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
7 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
8"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
8 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
9"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
9 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
10"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
10 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
11"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
11 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
12"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
12 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
13"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
13 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
14"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
14 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
15"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
15 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
16"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
16 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
17"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
17 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
18"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
18 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
19"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
19 1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
20"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"



**TYPICAL SEWER TRENCH DETAIL**  
N.T.S.



**GREENVILLE WATER TRENCH DETAIL**  
N.T.S.



**TYPICAL FIRE HYDRANT BRANCH ASSEMBLY**  
N.T.S.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED AUG 2 2007 FILE # 07-0241  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*Myastin D. Wencel*

MAY 29 2007

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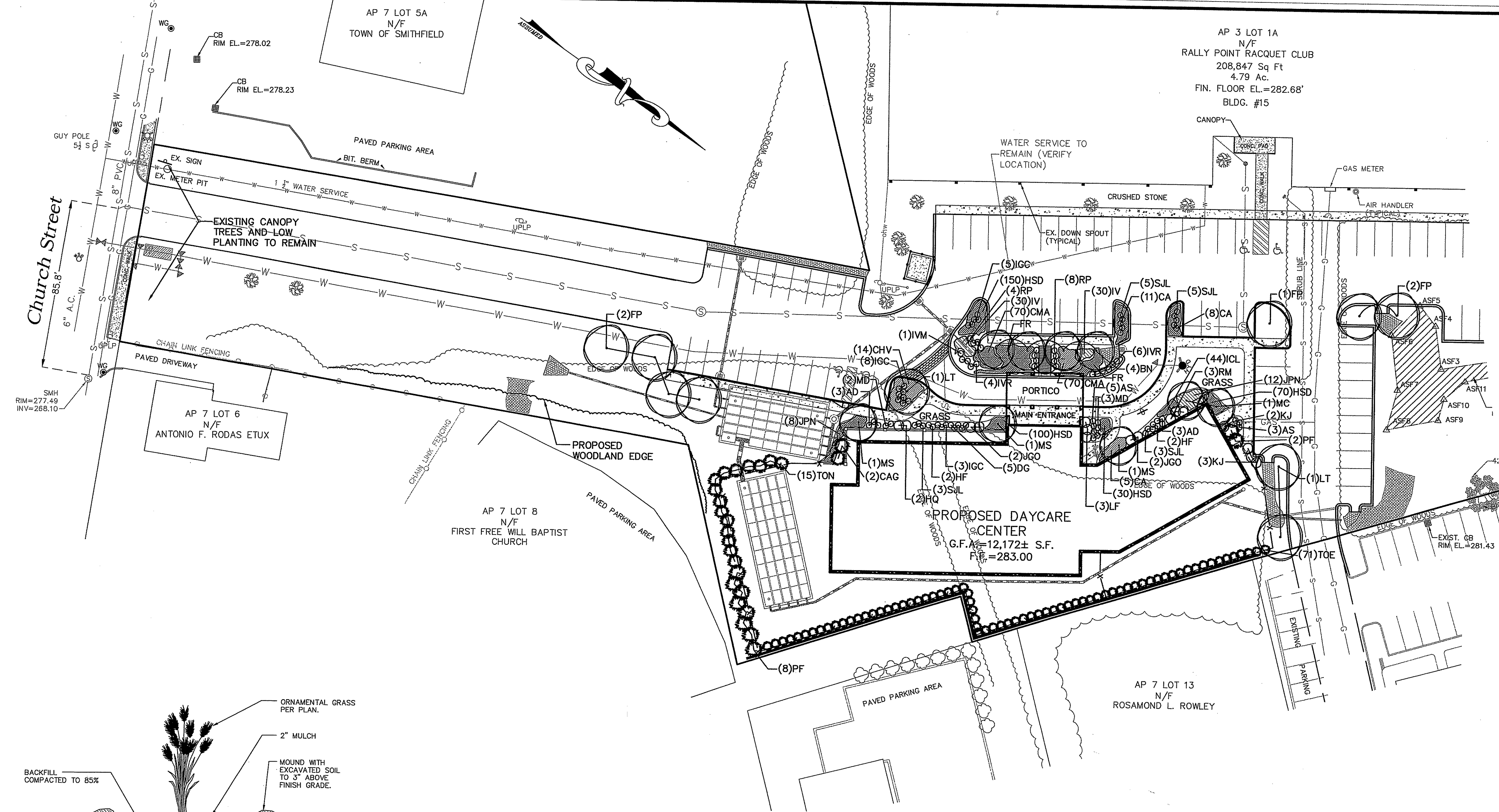
NO.	DATE	REVISION	BY

**Thalman Engineering Co., Inc.**  
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600 Putnam Pike, Suite #7  
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(401) 349-3040 • (fax) (401) 349-3041

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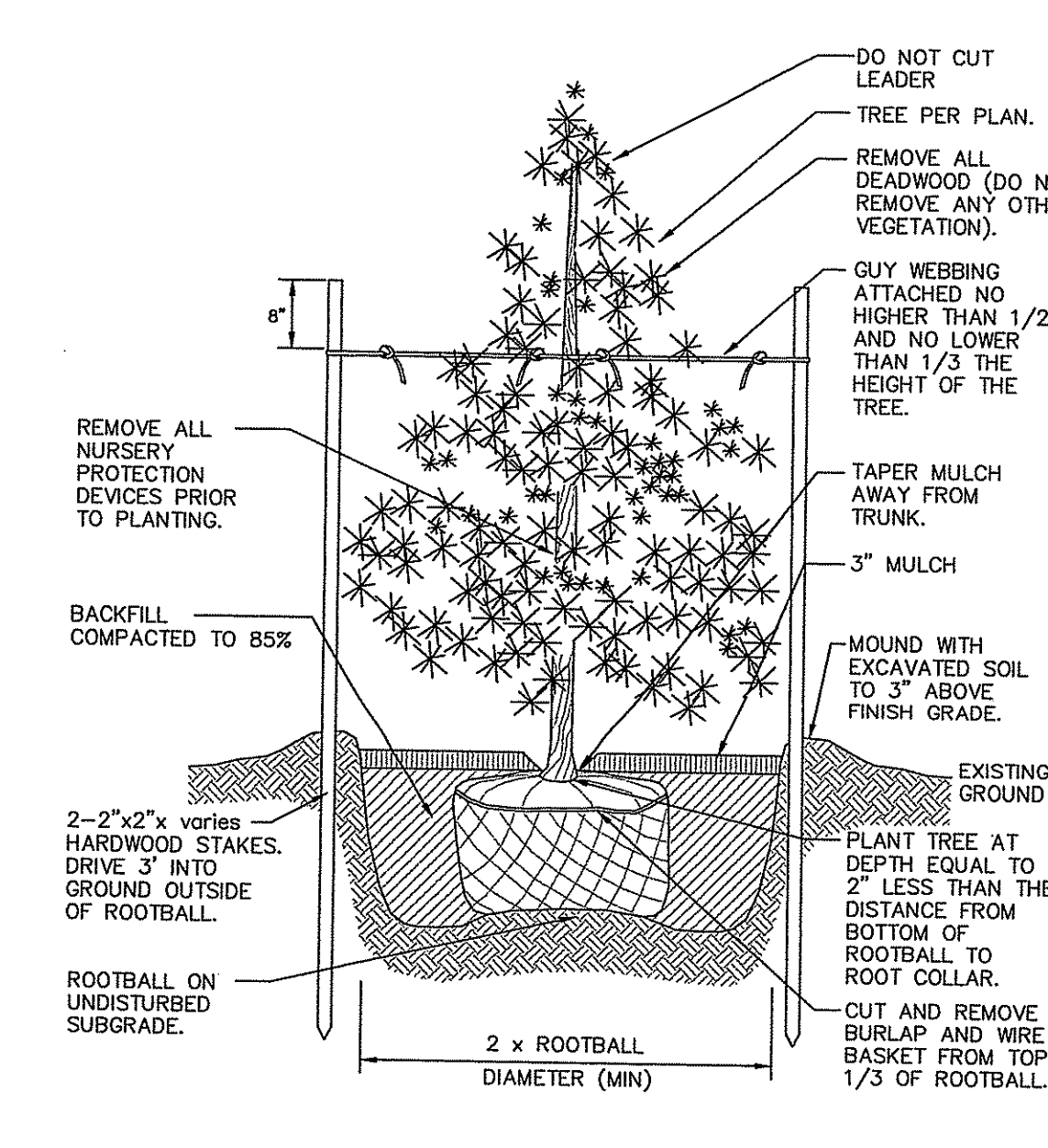
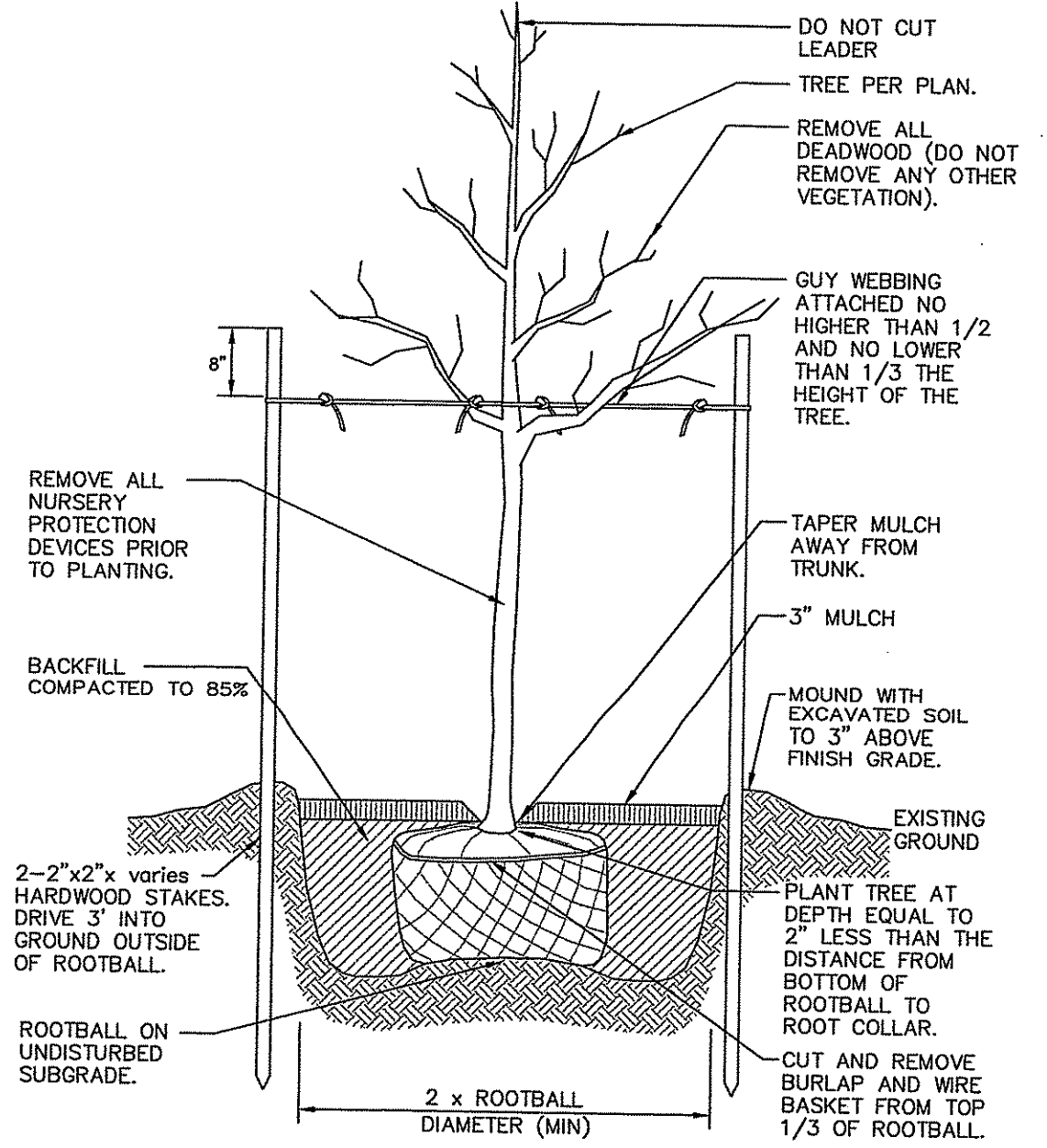
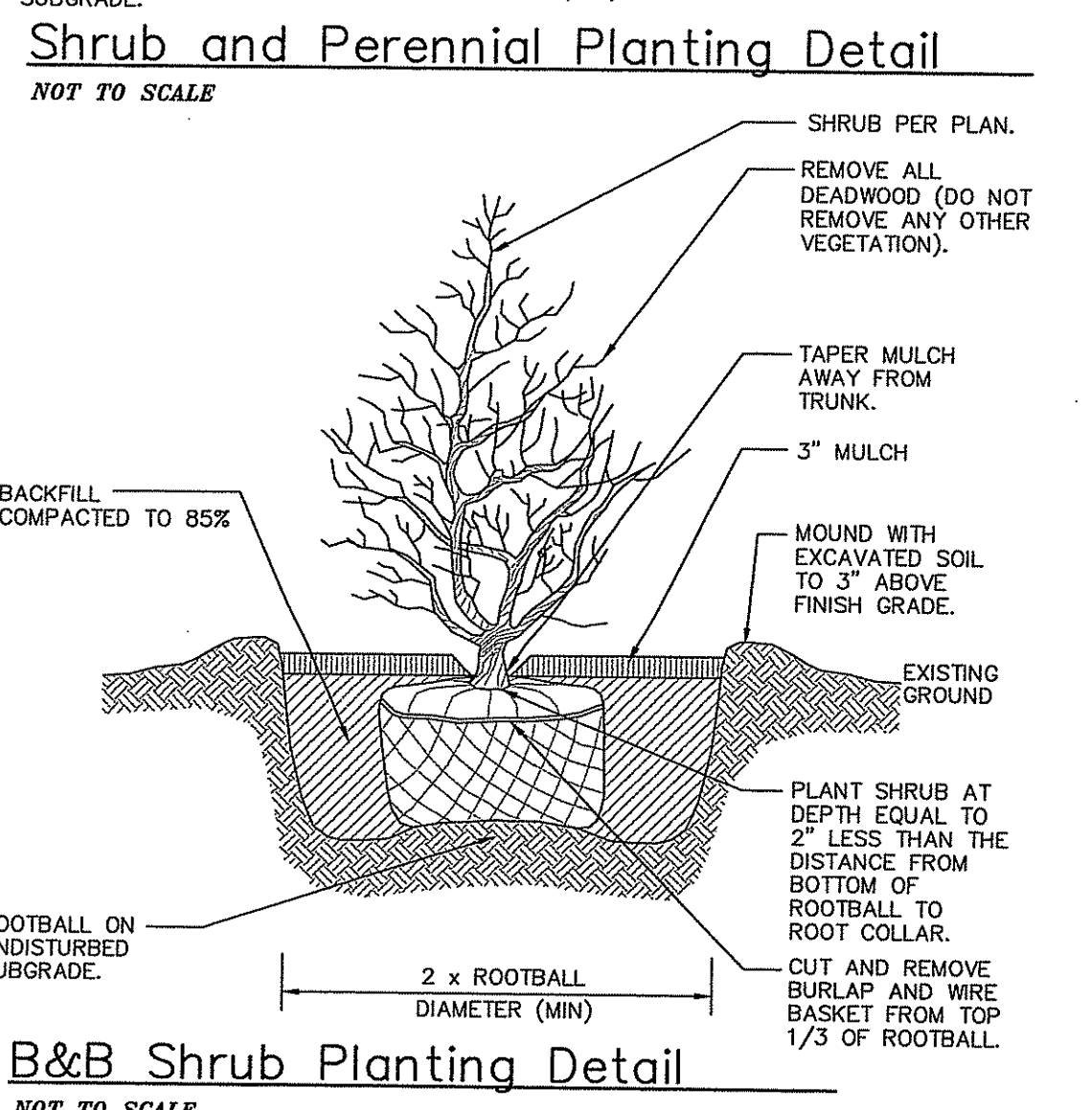
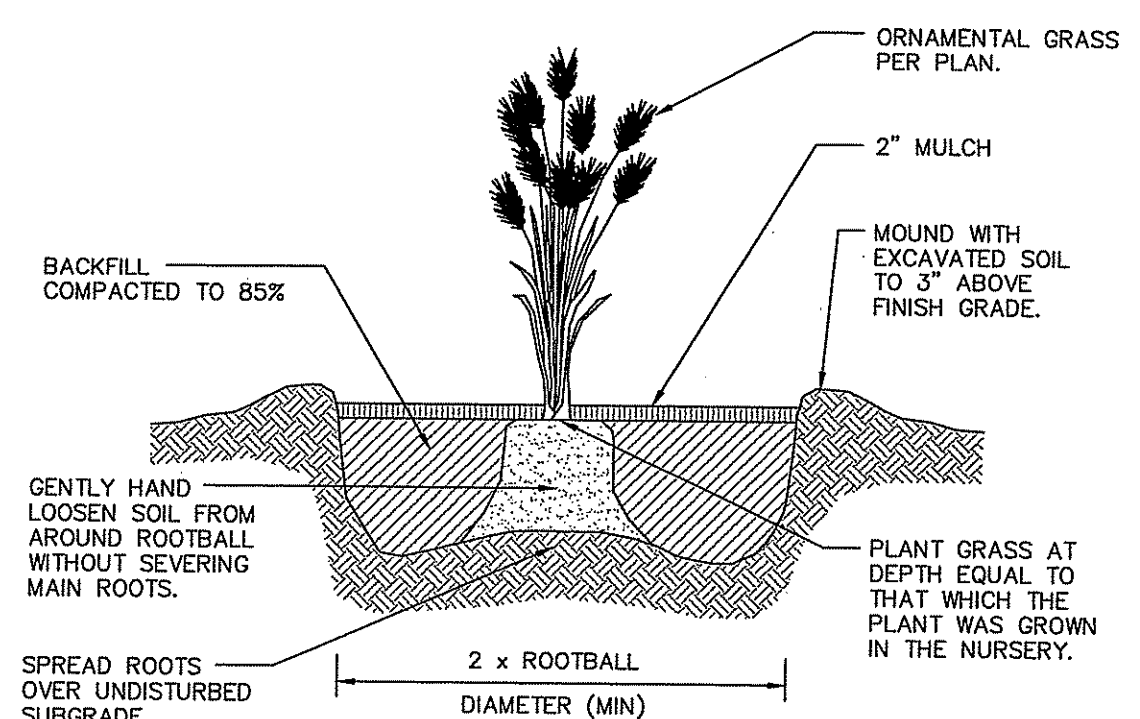
AP-3  
Details  
**Proposed Daycare Center**  
15 Church Street  
Prepared for:  
**Church Street Realty, LLC**  
610 Putnam Pike Greenville, RI 02828  
Scale: As Noted

Design By: CSR  
Checked By: BPT  
Sheet  
**C-9**  
of 10  
FILE NO.: 06.074



**GENERAL LANDSCAPE NOTES:**

1. THE CONTRACTOR SHALL INSTALL ALL PLANT MATERIAL IN CONFORMANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. ALL PLANT MATERIAL SHALL MEET THE AMERICAN OF NURSERYMEN STANDARDS FOR NURSERY STOCK, LATEST EDITION, AND ITS AMENDMENTS. PLANT ONLY DURING SEASONS NORMAL TO THE PARTICULAR VARIETY. NO SUBSTITUTIONS SHALL BE ACCEPTED WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.
3. ALL PLANT MATERIAL FURNISHED BY THE CONTRACTOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR. IF THE FIRST YEAR ENDS DURING THE DORMANT PERIOD, THE GUARANTEE SHALL EXTEND TO THE START OF THE NEXT LEAFING. DURING THE ONE-YEAR GUARANTEE PERIOD THE CONTRACTOR SHALL EMPLOY ACCEPTED HORTICULTURAL PRACTICES TO KEEP THE PLANTS INSTALLED IN LIVING, HEALTHY CONDITION. FOLLOWING THE ONE-YEAR GUARANTEE PERIOD THE OWNER/OWNERS SHALL INSPECT ALL PLANT MATERIAL FOR HEALTHY ORNAMENTAL QUALITY. AT THE END OF THE ONE-YEAR GUARANTEE PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE THE PLANT IN KIND AND PROVIDE A ONE-YEAR GUARANTEE FOR THE REPLACEMENT PLANT.
4. INSTALL ALL PLANT MATERIAL AS SHOWN IN DETAILS.
5. STAKE ALL TREES OVER 5' AS SHOWN ON DETAILS. REMOVE STAKES AT THE END OF THE GUARANTEE PERIOD.
6. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE SITE CLEAN OF MISCELLANEOUS DEBRIS THROUGHOUT THE CONSTRUCTION PERIOD. ALL WASTE MATERIAL IS TO BE DISPOSED OF IMMEDIATELY TO AN OFFSET LOCATION, UNLESS OTHERWISE INDICATED ON THE PLANS.
7. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, AND SHALL OBTAIN ALL NECESSARY PERMITS FOR THE PROJECT.
8. LAYOUT: ALL NOTES AND DIMENSIONS ARE TYPICAL UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE SQUARE (PARALLEL OR PERPENDICULAR) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE OWNER/OWNERS REPRESENTATIVE IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE CONTRACT DOCUMENTS AND/OR IN THE FIELD, OR ON CONDITIONS UNCOVERED IN THE WORK WHICH ARE NOT REFLECTED IN THE PLANS.
9. LOAM: LOAM MOVED DURING THE COURSE OF CONSTRUCTION SHALL BE RETAINED AND DISTRIBUTED WITHIN THE SITE IN ACCORDANCE WITH THE LANDSCAPE PLAN. STOCKPILED LOAM SHALL NOT BE MIXED WITH ANY SUBSOIL OR UNSUITABLE MATERIAL. ALL EXISTING LOAM REMAINS THE PROPERTY OF THE OWNER.
10. PROTECTION OF EXISTING PLANTINGS: MAXIMUM EFFORT SHOULD BE MADE TO SAVE TREES OF OTHER PLANT SPECIMENS WHICH ARE LARGE FOR THEIR SPECIES, RARE TO THE AREA, OR OF SPECIAL HORTICULTURAL OR LANDSCAPE VALUE. CONTACT OWNER/LANDSCAPE ARCHITECT BEFORE REMOVING ANY MATERIAL OR TEMPORARY SOIL DEPOSITS SHALL BE PLACED WITHIN THE DRIP LINE OF SHRUBS OR TREES DESIGNATED ON THE LANDSCAPE PLAN TO BE RETAINED. PROTECTIVE BARRIERS ARE TO BE INSTALLED AROUND EACH PLANT AND/OR GROUP OF PLANTS THAT ARE TO REMAIN ON THE SITE. BARRIERS SHALL NOT BE SUPPORTED BY THE PLANTS THEY ARE PROTECTING, BUT SHALL BE SELF-SUPPORTING. THEY SHALL BE OF MINIMUM OF FOUR FEET (4') HIGH AND CONSTRUCTED OF A DURABLE MATERIAL, SUCH AS SNOW OR SILT FENCE, THAT WILL LAST UNTIL CONSTRUCTION IS COMPLETED.
11. PRUNING: THE CONTRACTOR SHALL CAREFULLY PRUNE BRANCHES IN THE WAY OF CONSTRUCTION BY USING ONLY APPROVED METHODS AND TOOLS. THE USE OF AXES FOR TRIMMING OR SPURS FOR CLIMBING WILL NOT BE PERMITTED.
12. UTILITIES: IN ACCORDANCE WITH DIG-SAFE LAW THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY COMPANIES AND VERIFY LINE LOCATIONS (1-800-225-4977). RECORD LOCATIONS OF DIG-SAFE UTILITY LINE MARKINGS ON PROJECT RECORD DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL UTILITY DAMAGE INCLUDING DAMAGE THAT MAY OCCUR TO NEW UTILITIES.
13. DISTURBED AREAS: AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION ARE TO BE RESTORED TO ORIGINAL (OR BETTER) CONDITION BY THE CONTRACTOR BEFORE COMPLETION OF THE PROJECT, AND ARE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE FINE RAKED TO REMOVE STONES AND LOAMED AND SEEDED AS PER SPECIFICATIONS.
14. DRAINAGE SYSTEMS: CONTRACTOR IS RESPONSIBLE FOR GENERAL CLEAN-OUT OF ALL CATCH BASINS, MANHOLES, AND/OR OTHER DRAINAGE FEATURES ON THE SITE WHICH HAVE ACCUMULATED SEDIMENT AS A RESULT OF CONSTRUCTION ACTIVITIES.
15. CLEANING: CONTRACTOR IS RESPONSIBLE FOR KEEPING SITE CLEAN OF MISCELLANEOUS DEBRIS THROUGHOUT THE CONSTRUCTION PERIOD. ALL WASTE MATERIAL IS TO BE DISPOSED OF IMMEDIATELY TO AN OFF-SITE LOCATION, UNLESS OTHERWISE INDICATED ON THE PLAN.

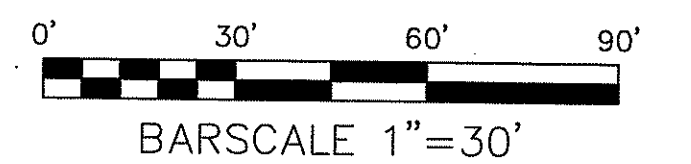


**PLANT LIST**

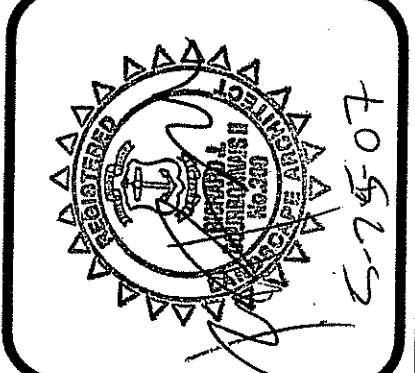
CANOPY TREES			
FP	FRAXILIS AMERICANA 'JUNGINGER'	7	2.5'-3' DBH
LT	LIRIODENDRON TULIPIFERA 'TULIP TREE'	3	2.5'-3' DBH
EVERGREENS			
CAG	CEDRUS ATLANTICA GLAUCOA 'BLUE ATLANTIC CEDAR'	2	6'-7' DBH
FF	FILIX FLEXILIS 'VANDERHOEPS PYRAMID UPRIGHT LAMBER FINE'	10	6'-7' DBH
TOE	THUJA OCCIDENTALIS EMERALD 'EMERALD ARBORVITAE'	70	5'-6' DBH
TON	THUJA OCCIDENTALIS NIGRA 'ARBORVITAE'	15	5'-6' DBH
FLOWERING TREES			
BN	BETULA NIGRA 'WHITE BIRCH'	4	10'-12' CLUMP
MC	MALUS 'CENTAURI' 'CENTAURI CRABAPPLE'	2	2'-2.5' DBH
MS	MALUS 'SUGAR TINE' 'SUGAR TINE CRABAPPLE'	3	2'-2.5' DBH
SHRUBS			
AD	AZALEA 'DELAWARE VALLEY WHITE' 'WHITE AZALEA'	6	24"-30" CONTAINER
AS	AZALEA 'SWEETSTONIAN' 'RED AZALEA'	5	24"-30" CONTAINER
DG	DEUTZIA GRACILIS 'WHITE DEUTZIA'	5	24"-30" CONTAINER
HQ	HYDRANGEA QUERCIFOLIA 'OAK LEAF HYDRANGEA'	2	CONTAINER
HF	HYPERICUM FRODOSUM 'SUNBURST' 'GOLDEN ST. JOHNSWORT'	4	24"-30" CONTAINER
IGC	ILEX GLABRA 'COMPACT' 'COMPACT HEDGE'	16	18"-24" CONTAINER
IVM	ILEX VERTICILLATA MALE 'WINTERBERRY'	1	24"-30" CONTAINER

SHRUBS - cont...			
IVR	ILEX VERTICILLATA 'RED SPRITE' 'RED SPRITE WINTERBERRY'	10	18"-24" CONTAINER
JGO	JUNIPERUS VIRGINIANA 'GREY OWL' 'GREY OWL JUNIPER'	4	24"-30" CONTAINER
KJ	KERRIA JAPONICA 'JAPANESE KERRIA'	5	24"-30" CONTAINER
LF	LEUCODENDRON FORTMANSIA GATESBAE 'DROOPING LACINIOSA'	3	24"-30" CONTAINER
RM	RHOCHODENDRON MICROBATUM 'PINK SNOW RHOCHODENDRON'	3	24"-30" CONTAINER
RF	ROSA PALUSTRIS 'SWAMP ROSE'	12	18"-24" CONTAINER
SJL	SPHORA JAPONICA 'LITTLE PRINCESS' 'LITTLE PRINCESS SPHORA'	16	18"-24" CONTAINER
VO	VIBURNUM OPULIS COMPACTA 'COMPACT EUROPEAN CRANBERRY BUSH'	10	24"-30" CONTAINER
GROUNDCOVERS			
CA	COTONEASTER ADPRESSUS 'TOM THUMB' 'DENSE CREEPING COTONEASTER'	24	24"-30" CONTAINER
CHV	COTONEASTER HORIZONTALIS 'VAREGATUS' 'VAREGATED COTONEASTER'	14	24"-30" CONTAINER
JPN	JUNIPERUS PROCEPENS NANA 'DWARF JAPANESE GARDEN JUNIPER'	24	18"-24" CONTAINER
MD	MICROBIOTA DECAUSATA 'SIBERIAN CYPRESS'	3	15"-24" CONTAINER
VM	VINCA MINOR 'PERIWINKLE'	100	FLATS OF 100
PERENNIALS AND GRASSES			
CMA	CAREX MOSCOWII 'AUREA VAREGATA' 'VAREGATED JAPANESE CAREX'	140	4" POT
HSD	HEMEROCALLIS STELLA DORAE 'STELLA DORAE DAYLILY'	350	BARE ROOT
ICL	IRIS PUMILA 'LITTLE EPISODE' 'SMALL DARK PURPLE IRIS'	44	4" POT
IV	IRIS VEIKICOLOR 'BLUE FLAG IRIS'	60	4" POT
FR	FESTUCA RUBRA 'CREeping RED FESCUE'	350 SF	SEED

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Site/Civil Engineers • Land Planners  
600 Putnam Pike, Suite #7  
Greenville, Rhode Island 02828  
(401) 349-3040 • (401) 349-3041 (fax)

Lot 1A  
Rhode Island  
Smithfield  
Scale: 1" = 40'

**Proposed Daycare Center**  
15 Church Street  
Prepared for:  
**Church Street Realty, LLC**  
610 Putnam Pike Greenville, RI 02828

date: 26 January 2007

Design By: RJB  
Checked By: BPT  
Sheet  
**L-1**  
of 10  
FILE NO.: 06.074