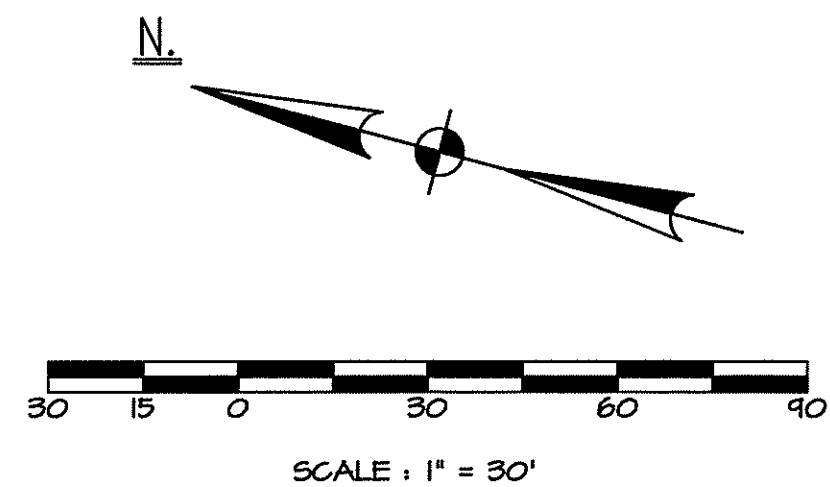


LOCUS MAP
SCALE 1"=2000'



AUG 7 2014

**NEW ADMINISTRATION BUILDING
for the
CUMBERLAND HOUSING AUTHORITY**

1 MENDON ROAD, CUMBERLAND, RI



CUMBERLAND HOUSING AUTHORITY
573 MENDON ROAD, SUITE 4,
CUMBERLAND, RI

**Edward Rowse
ARCHITECTS**

115 Cedar Street (401) 331-9200
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GENERAL NOTES

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- CONTRACTOR SHALL VISIT SITE, PRIOR TO BID, AND CAREFULLY INVESTIGATE AND EXAMINE THE AREA OF WORK SO AS TO SATISFY THEMSELVES AS TO THE NATURE AND LOCATION OF THE WORK. CONTRACTOR TO NOTE THE CHARACTER, QUALITY, QUANTITIES OF MATERIALS REQUIRED AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK AND OTHER ITEMS WHICH MAY, IN ANY WAY, AFFECT THE WORK OR CONTRACTOR'S PERFORMANCE.
- DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

<p>DAVID T. BRAY No. 14809 REGISTERED LAND SURVEYOR</p>	<p>ALLAN L. SHEAR No. 4785 REGISTERED PROFESSIONAL ENGINEER</p>
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Date: JUNE 6, 2014
Drawn by: ALS Proj. Mgr.: DTB

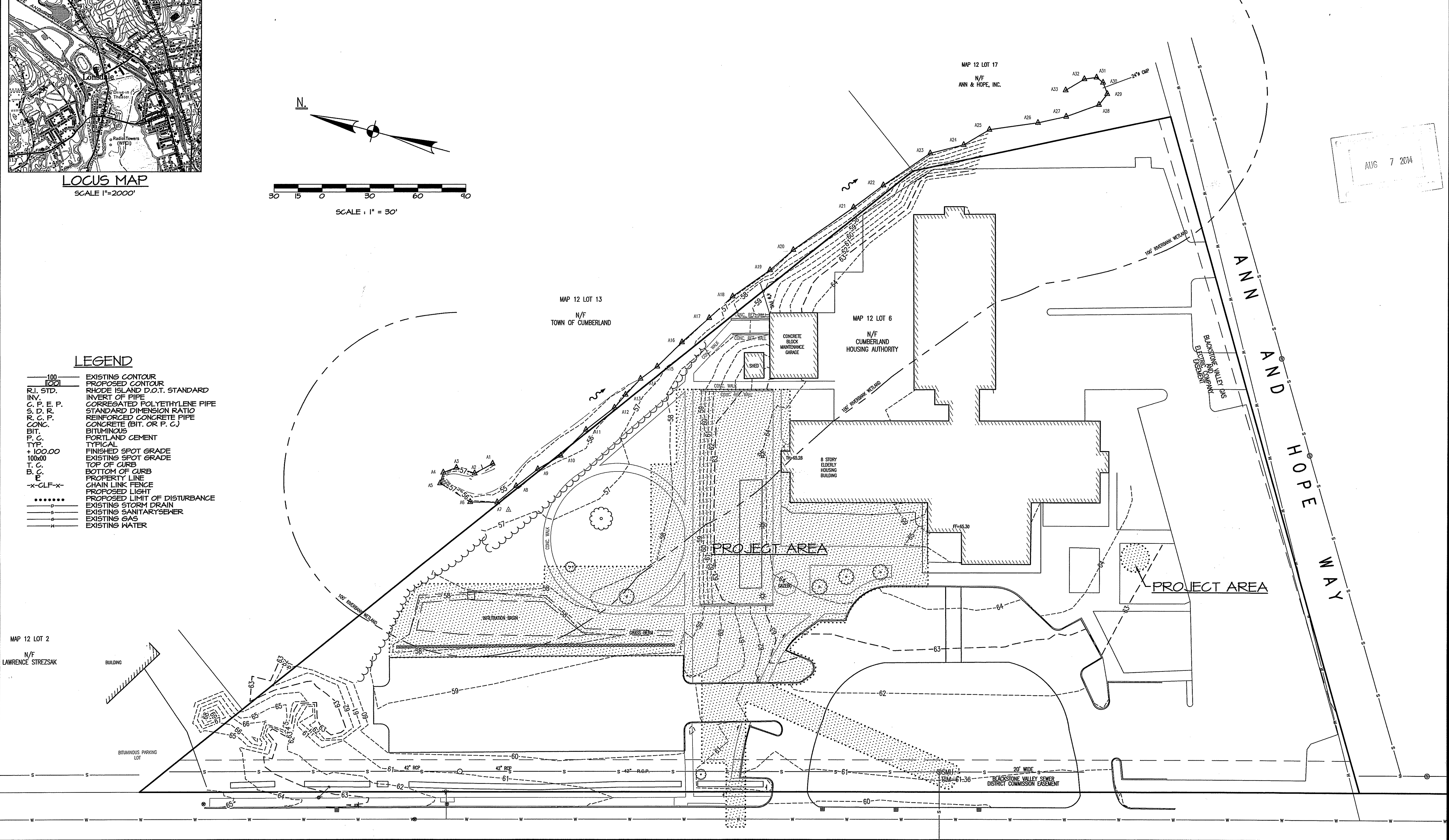
Revisions	No.	Date	Description
	1	8/6/14	Building footprint

PROJECT LOCATION PLAN

RIDEM SUBMISSION

C1.0

- LEGEND**
- 100 EXISTING CONTOUR
 - 1000 PROPOSED CONTOUR
 - R.I. STD. RHODE ISLAND D.O.T. STANDARD
 - INV. INVERT OF PIPE
 - C.P.E.P. CORRUGATED POLYETHYLENE PIPE
 - S.D.R. STANDARD DIMENSION RATIO
 - R.C.P. REINFORCED CONCRETE PIPE
 - CONC. CONCRETE (BIT. OR P.C.)
 - BIT. BITUMINOUS
 - P.C. PORTLAND CEMENT
 - TYP. TYPICAL
 - +100.00 FINISHED SPOT GRADE
 - 100x00 EXISTING SPOT GRADE
 - T.C. TOP OF CURB
 - B.C. BOTTOM OF CURB
 - P.L. PROPERTY LINE
 - X-CLF-X- CHAIN LINK FENCE
 - PROPOSED LIGHT
 - PROPOSED LIMIT OF DISTURBANCE
 - S- EXISTING STORM DRAIN
 - S- EXISTING SANITARYSEWER
 - G- EXISTING GAS
 - W- EXISTING WATER



- SHEET SCHEDULE**
- C1.0 PROJECT LOCATION PLAN
 - C2.0 EXISTING CONDITIONS PLAN
 - C3.0 CONSTRUCTION NOTES
 - C4.0 SOIL EROSION AND SEDIMENT CONTROL PLAN
 - C5.0 SITE PLAN
 - C6.0 DETAILS
 - C7.0 FLOODPLAIN SECTIONS

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 10 2014 FILE # 14-0113
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Maxine D. Wincek

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING CLASS STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE APRIL 1, 1994.

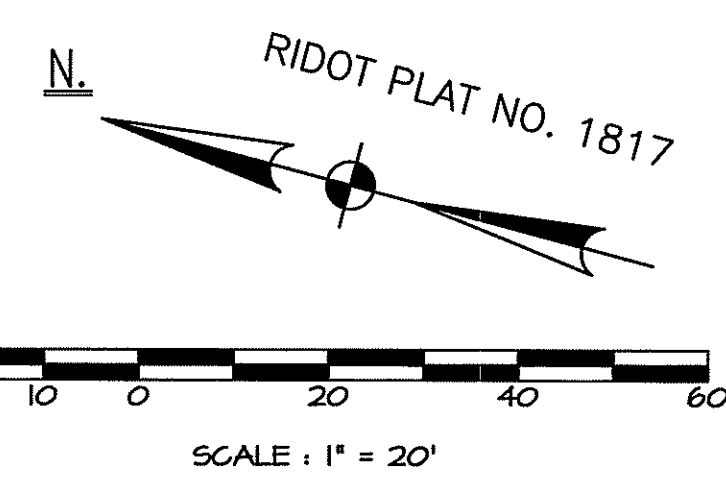
BOUNDARY SURVEY - CLASS IV
LOCATIONS AND IMPROVEMENTS - CLASS III

BY: *David T. Bray* 8-6-14
REGISTERED PROFESSIONAL LAND SURVEYOR DATE

ZONING INFORMATION

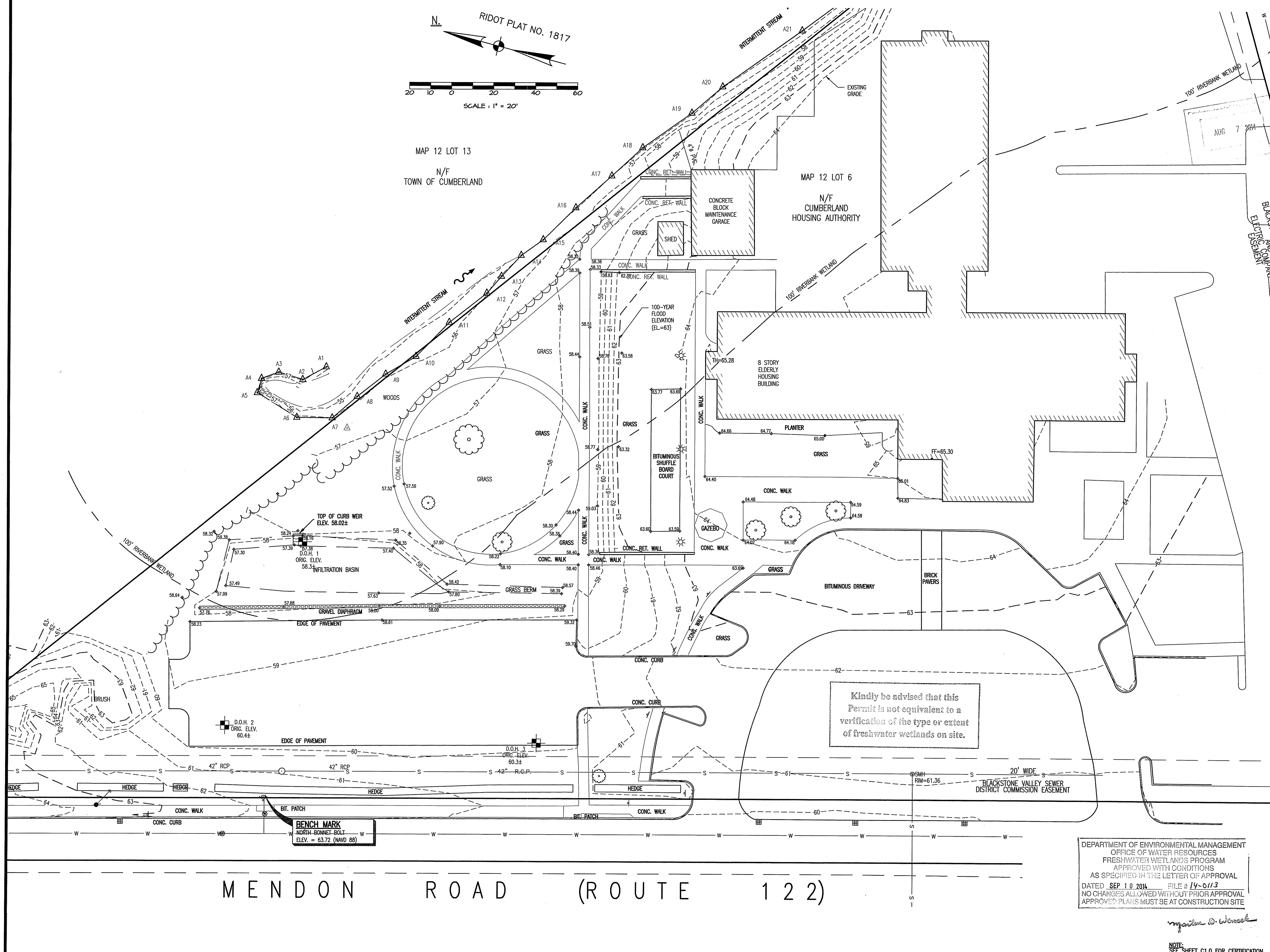
ZONE R-3	80,000 S.F.
MIN. WIDTH	120 FT.
MIN. FRONTAGE	120 FT.
MIN. FRONT YARD	50 FT.
MIN. SIDE YARD	20 FT.
MIN. REAR YARD	30 FT.
MIN. PARKING SETBACK (FRONT AND SIDE YARD)	10 FT.

"THIS PLAN/REPORT IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND IS SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE."



MAP 12 LOT 13
N/F
TOWN OF CUMBERLAND

MAP 12 LOT 6
N/F
CUMBERLAND
HOUSING AUTHORITY



MENDON ROAD (ROUTE 122)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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Martin D. Wenzel
NOTE:
SEE SHEET C1.0 FOR CERTIFICATION.

NEW ADMINISTRATION BUILDING
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CUMBERLAND HOUSING AUTHORITY

1 MENDON ROAD, CUMBERLAND, RI



CUMBERLAND HOUSING AUTHORITY
573 MENDON ROAD, SUITE 4,
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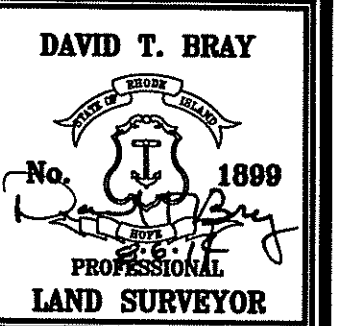
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Date: JUNE 6, 2014
Drawn by: ALS Proj. Mgr.: DTB

Revisions		
No.	Date	Description
1	8/6/14	Building footprint

EXISTING CONDITIONS PLAN

RIDEM SUBMISSION

C2.0

DRAINAGE SYSTEM OPERATION & MAINTENANCE NOTES

STORMWATER COLLECTION SYSTEM:

THE STORMWATER COLLECTION SYSTEM SERVING THIS PROJECT SITE IS INTENDED TO: (1) COLLECT STORMWATER RUNOFF AND (2) TO PROVIDE TREATMENT OF THE STORM WATER PRIOR TO DISCHARGE. STORMWATER MANAGEMENT SYSTEMS RELY UPON PROPER MONITORING, OPERATION, AND MAINTENANCE TO FUNCTION AS DESIGNED AND INTENDED. A PROGRAM OF MONITORING, OPERATION, AND MAINTENANCE MUST BE ON-GOING THROUGHOUT THE LIFE AND USE OF THE SITE AND IS THE OWNER'S RESPONSIBILITY. THE ACTIVITIES DESCRIBED BELOW ARE TO BE INITIATED AFTER COMPLETION OF THE PROJECT AND ARE NOT DIRECTLY RELATED TO CONSTRUCTION OF THE SITE, EXCEPT AS SPECIFICALLY NOTED.

UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR WILL CONDUCT A FINAL INSPECTION OF ALL DRAINAGE SYSTEM COMPONENTS, CLEAN THE SYSTEMS AND ALL ASSOCIATED STRUCTURES, REPAIR ANY SOIL EROSION AND SEDIMENT CONTROL MEASURES (SEEDING, PLANTINGS, ETC.) WHERE REQUIRED, AND REPAIR (OR REMOVE WHERE APPROPRIATE) TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES (HAYBALES AND SILT FENCE, ETC.). AFTER PERMANENT SOIL STABILIZATION HAS OCCURRED, ALL TEMPORARY CONTROL MEASURES SHALL BE REMOVED.

THE DRAINAGE SYSTEMS ARE TO BE MONITORED BY THE OWNER, WHO SHALL DIRECT AN INDIVIDUAL TO ACT AS THE SYSTEM'S MANAGER. THIS INDIVIDUAL SHALL KEEP A LOG OF ALL INSPECTIONS, OBSERVATIONS, AND MAINTENANCE ACTIVITIES. THE LOG SHALL BE MADE AVAILABLE TO RIDEM WITHIN TEN (10) DAYS OF ANY WRITTEN REQUEST BY RIDEM PERSONNEL.

AFTER SITE CONSTRUCTION WORK IS COMPLETE AND HAS BEEN ACCEPTED BY OWNER, MAINTENANCE OF THE DRAINAGE SYSTEM WILL BECOME THE RESPONSIBILITY OF THE CUMBERLAND HOUSING AUTHORITY. THE MONITORING AND MAINTENANCE OF ALL STORMWATER FACILITIES SHALL BE ADDRESSED AS FOLLOWS:

PARKING LOT MAINTENANCE:

1. PARKING AREA AND ACCESS WAY SHALL BE SWEPT CLEAN OF DEBRIS AND ACCUMULATION OF SILT OR SAND ON A REGULAR BASIS. A SPRING AND FALL CLEANING SCHEDULE IS RECOMMENDED.
2. ANY VISIBLY ERODED AREAS SHALL BE REPAIRED IMMEDIATELY.
3. THE GRAVEL DIAPHRAGM SHOULD BE INSPECTED ON A SEMI-ANNUAL BASIS AND AFTER MAJOR STORM EVENTS. A SPRING AND FALL INSPECTION SCHEDULE IS RECOMMENDED. COARSE SEDIMENTS AND DEBRIS SHALL BE REMOVED AS NEEDED. IF FINER SEDIMENTS ACCUMULATE WITHIN THE UPPER STONE LAYER, THE STONE SHALL BE REMOVED AND REPLACED WITH CLEAN STONE FREE OF FINE PARTICLES.
4. THE GRASSSED PRETREATMENT AREA SHOULD BE INSPECTED ON A SEMI-ANNUAL BASIS AND AFTER MAJOR STORM EVENTS. A SPRING AND FALL INSPECTION SCHEDULE IS RECOMMENDED. COARSE SEDIMENTS AND DEBRIS SHALL BE REMOVED AS NEEDED. THE GRASSSED AREA SHOULD BE MOWED SEVERAL TIMES DURING THE GROWING SEASON, LEAVING A MINIMUM OF 3 INCHES IN HEIGHT, TO ENCOURAGE DENSE GRASS GROWTH AND DISCOURAGE WEEDS.

INFILTRATION BASIN MAINTENANCE:

1. INSPECT BASIN FOR SLOPE STABILITY AND PROPER FUNCTION QUARTERLY AND AFTER MAJOR STORM EVENTS THE FIRST YEAR, AND SEMIANNUALLY THEREAFTER. REMOVE LITTER AND DEBRIS ON AN AS-NEEDED BASIS. ANY VISIBLY ERODED AREAS SHALL BE REPAIRED IMMEDIATELY.
2. MOW GRASSSED AREAS OF BASIN FLOOR AND SIDE SLOPES SHALL BE DONE AT LEAST ONCE PER GROWING SEASON, PREFERABLY AFTER MID AUGUST. REMOVE GRASS CLIPPINGS AND REPAIR ANY BARE SPOTS.
3. CONDUCT AUTUMN RAKING IN GRASSSED AREAS ON THE BASIN FLOOR AND SIDE SLOPES AS REQUIRED TO REMOVE ACCUMULATED LEAVES.
4. TILLING OF THE BASIN FLOOR SHOULD BE DONE WHEN THERE IS AN OBVIOUS LOSS OF INFILTRATION, ESPECIALLY IF STANDING WATER IS PRESENT FOR MORE THAN 24 HOURS AFTER A RAINFALL EVENT. TILLING CAN BE ACCOMPLISHED WITH A ROTARY TILLER OR DISC HARROW, AND SAND CAN BE ADDED TO RESTORE INFILTRATION CAPACITY. RESEED THE DISTURBED AREAS AND MAINTAIN UNTIL THE VEGETATION IS WELL ESTABLISHED.
5. IF TILLING THE BOTTOM OF THE BASIN FAILS TO IMPROVE INFILTRATION, REMOVE AT LEAST FOUR INCHES OF SOIL FROM THE BOTTOM OF THE BASIN AND REPLACE WITH LOAMY SAND. RESEED THE DISTURBED AREAS AND MAINTAIN UNTIL THE VEGETATION IS WELL ESTABLISHED.

SITE CONSTRUCTION NOTES:

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION WITH LATEST REVISIONS, THE PROJECT SPECIFICATIONS AND APPLICABLE TOWN OF CUMBERLAND STANDARDS OR REQUIREMENTS.
2. UNDERGROUND UTILITY INFORMATION SHOWN ON THE DRAWINGS HAS BEEN PLOTTED FROM RECORD DATA AND FIELD OBSERVATIONS AND MAY NOT BE CORRECT. PRIOR TO ANY EXCAVATION, CONTACT DIG-SAFE TO ESTABLISH MORE PRECISE LOCATIONS ON THE GROUND.
3. ANY DAMAGE TO EXISTING STATE OR PRIVATE PROPERTY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL RESTORE ALL EXISTING GRASSSED AREAS DISTURBED DURING CONSTRUCTION ACTIVITIES BY INSTALLING 4" OF LOAM AND TYPE 2 SEEDING UNLESS THE AREA IS DESIGNATED FOR ANOTHER SURFACE TREATMENT.
5. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AT APPROVED LOCATIONS WITHIN THE SITE. SIDEWALKS, PARKING AND ROADWAY AREAS MUST BE MAINTAINED TO AVOID INTERFERENCE WITH VEHICULAR OR PEDESTRIAN TRAFFIC.
6. VERIFY HORIZONTAL AND VERTICAL LIMITS OF EXISTING DRAINAGE STRUCTURES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DRAINAGE STRUCTURES ARE IN CONFLICT WITH PROPOSED WORK.

GENERAL CONSTRUCTION REQUIREMENTS:

1. NO PETROLEUM FUELED EQUIPMENT (EARTHMOVING OR OTHERWISE) SHALL BE WITHIN 100-FOOT RIVERBANK WETLANDS OR 50-FOOT PERIMETER WETLANDS.
2. ANY REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL TAKE PLACE AT LEAST 100 FEET FROM WETLAND AREAS. FUELING AND MECHANICAL ADJUSTMENTS TO EQUIPMENT SHALL NOT OCCUR NEAR THE ENTRANCE TO ANY DRAINAGE SYSTEM.
3. ANY ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING EARTH MATERIALS IS PROHIBITED UNLESS SPECIFIED ON THESE PLANS. ANY MATERIAL NOT RE-USED ON SITE SHALL BE HAULED OFF SITE TO AN AUTHORIZED, LEGAL LOCATION.
4. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN AREAS WHERE THE WASH-WATER WILL DRAIN DIRECTLY TO SITE DRAINAGE SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL. THIS OPERATION SHALL INCLUDE SHEEPING ALL PAVED SURFACES LOCATED IN THE SITE AREA AND ANY OFF-SITE AREAS THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS.
5. THE CONTRACTOR SHALL LIMIT OPERATIONS THAT RESULT IN THE GENERATION OF AIRBORNE SEDIMENT. ONLY CLEAN, POTABLE WATER SHALL BE USED TO CONTROL DUST.

EROSION AND SEDIMENTATION CONTROL:

THE NOTES LISTED BELOW IN THIS SECTION PERTAIN TO THE OVERALL PROJECT AREA.

1. APPROPRIATE PRECAUTIONS SHALL BE TAKEN TO PREVENT THE TRACKING OF SOIL FROM CONSTRUCTION EQUIPMENT ONTO PAVED ROADWAYS, DRIVEWAYS, AND PARKING AREAS LOCATED BEYOND WORK LIMITS.
2. THE STONE CONSTRUCTION ENTRANCE SPECIFIED ON THE PLANS MUST BE PROPERLY INSTALLED AND MAINTAINED. STONE SHALL BE REPLACED WHEN VOID SPACE BECOMES NEARLY FULL (60%) AND LOSES ITS EFFECTIVENESS AT TRAPPING AND RETAINING SEDIMENTS (MUD IN WET CONDITIONS AND LOOSE SEDIMENT IN DRY CONDITIONS).
3. ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
4. NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER CONTROLS. ALL PERIMETER CONTROLS SERVE AS THE LIMIT OF CLEARING, SURFACE DISTURBANCE, AND WORK IN GENERAL. ACCORDINGLY, NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROLS AND/OR LIMITS OF DISTURBANCE.
5. THE ENGINEER/BIOLOGIST RESERVES THE RIGHT TO SPECIFY ADDITIONAL CONTROLS AS CONDITIONS MAY WARRANT. ACCESSIBLE RESERVES OF HAY BALES AND STAKES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING EMERGENCY RESPONSE.
6. HAY BALES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED. ALL HAY BALES ARE TO BE DOUBLE STAKED AND INSTALLED WITH THE LOWER 4 INCHES BURIED AND BACKFILLED WITH COMPACTED SOIL MATERIAL.
7. UNDER NO CIRCUMSTANCE SHALL THE CONTROLS BE COVERED WITH FILL MATERIAL. ANY FILL MATERIAL THAT IS PLACED AGAINST THE CONTROLS SHALL BE IMMEDIATELY REMOVED.
8. NO CONSTRUCTION VEHICLES ARE TO BE STORED WITHIN THE 100-FOOT RIVERBANK WETLAND.
9. CARE MUST BE EXERCISED TO PREVENT SEDIMENTATION IN THE EXISTING INFILTRATION BASIN, AND AT NO TIME SHALL CONSTRUCTION EQUIPMENT DRIVE OVER ITS FLOOR. LEVELING AND RAISING OF THE EXISTING BERM SHALL BE ACCOMPLISHED BY WHEELBARROWING EARTHEN MATERIAL. ACCOMMODATIONS FOR FLOW THROUGH THE WEIR MAY BE RESTORED BY ADJUSTING THE HAY BALE LINES ONCE ALL EARTH WORK AND SEEDING OF THE BERM HAS BEEN COMPLETED.
10. ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADINGS. PLANTABLE LOAM SHALL BE APPLIED AT A DEPTH OF SIX INCHES. SEED APPLICATION SHALL BE IN ACCORDANCE WITH THE SUPPLIERS SPECIFICATIONS.
11. FOR AREAS TO BE HYDROSEEDDED, THE HYDROSEED MIX SHALL CONTAIN AN APPROPRIATE TACIFYING AGENT. STRAW MULCH SHALL BE SPREAD AFTER SEEDING AS NEEDED AT THE DISCRETION OF THE ENGINEER/BIOLOGIST.
12. SLOPE STABILIZATION MEASURES SHALL BE UTILIZED AS APPROPRIATE AND AS DICTATED BY WEATHER CONDITIONS AND PLANTING SEASON. USE OF STRAW MULCH, EROSION CONTROL BLANKET, OR EQUIVALENT SHALL BE COORDINATED WITH THE ENGINEER.
13. ALL EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED, AND THE STRICTEST PRECAUTION MUST BE TAKEN TO AVOID AND MINIMIZE THE TRANSPORT OF SEDIMENTS TO WETLAND AREAS AND CLOSED DRAINAGE SYSTEMS THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTROLS ARE TO BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING PRECIPITATION EVENTS RESULTING IN RAINFALL OF 0.25". THE CONTRACTOR IS RESPONSIBLE FOR PROPER EROSION CONTROL ON AND OFF SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE CONTROLS ARE SPECIFIED ON THESE SITE PLANS.
14. EROSION AND SEDIMENTATION CONTROLS ARE TO REMAIN IN PLACE UNTIL ALL SOILS HAVE STABILIZED AND SHALL BE REMOVED ONLY UPON AUTHORIZATION FROM RIDEM OR THE ENGINEER/BIOLOGIST.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Matthew D. Worschke

DRAINAGE WORK & SITE UTILITIES:

1. THE DRAINAGE SYSTEM SHALL BE INSTALLED BY STARTING AT THE DOWNGRADIENT END AND WORKING UPGRADIENT.
2. RUNOFF SHALL NOT BE ALLOWED TO ENTER PIPES FROM UN-STABILIZED SURFACES.
3. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY PIPE INSTALLATION. ALL TRENCHES SHALL BE BACK FILLED AS SOON AS POSSIBLE. THE UPSTREAM ENDS OF PIPES SHALL BE CLOSED NIGHTLY WITH PLYWOOD CAPS.
4. IT IS IMPORTANT THAT BINDER COURSE BE INSTALLED IN PARKING AND ACCESS ROADWAYS AS SOON AS FEASIBLE AS THESE AREAS WILL FUNCTION AS A CONDUIT FOR RUNOFF. FRAME & GRATE/COVER SETS MUST BE INSTALLED TO THE ELEVATION OF THE TOP OF THE BINDER COURSE. A SECOND ADJUSTMENT WILL BE NECESSARY PRIOR TO INSTALLING THE SURFACE COURSE.
5. ALL DRAIN PIPE SHALL BE HOPE, UNLESS OTHERWISE NOTED.
6. CARE SHALL BE TAKEN TO ASSURE THAT UTILITY TRENCHES DO NOT CHANNELIZE RUNOFF TOWARDS WETLAND AREAS, EXISTING STREETS, ADJUTING PROPERTIES AND OTHER SENSITIVE AREAS.

DEWATERING NOTES:

1. EARTHEN MATERIAL EXCAVATED IN GROUNDWATER, OR OTHERWISE DETERMINED TO BE SATURATED, MUST BE PLACED IN DEWATERING AREAS ACCEPTED BY THE ENGINEER AND MUST REMAIN IN PLACE FOR A MINIMUM 72 HOURS IF IT IS TO BE HAULED OFF SITE. SEE DETAILS FOR DEWATERING BASINS.
2. DEWATERING MATERIAL NOT TO BE REUSED AS PART OF THE ACTIVITIES PROPOSED UNDER THIS PROJECT IS TO BE RESPONSIBLY HAULED TO A LEGAL, NON-WETLAND DISPOSAL SITE.
3. IF TRENCH DEWATERING IS REQUIRED, THEN PUMP WATERS MUST BE DIRECTED TO A STONE OR HAY BALE ENCLOSURE (SEE DETAILS), SILT BAGS, OR EQUIVALENT. PUMP WATER DISCHARGE DIRECTLY TO A DRAINAGE INLET STRUCTURE IS PROHIBITED AND WILL NOT BE AUTHORIZED UNDER ANY CIRCUMSTANCE.

SOIL STABILIZATION AND SEEDING:

1. LANDSCAPING AND SEEDING SHALL OCCUR AS SOON AS POSSIBLE AND AFTER GENERAL CONSTRUCTION OPERATIONS ARE COMPLETE IN ORDER TO PROVIDE BOTH TEMPORARY AND PERMANENT STABILIZATION OF DISTURBED SURFACES.
2. THE CONTRACTOR SHALL UTILIZE SLOPE STABILIZATION METHODS AND MATERIALS THAT MAY BE ADJUSTED TO VARYING SITE CONDITIONS. EROSION CONTROL BLANKETS OR MIRAFI MIRAMET (OR EQUIVALENT PRODUCTS) SHALL BE MADE AVAILABLE ON SITE FOR EMERGENCY USE.
3. IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT PERMIT PROPER GROWTH OF VEGETATION, TEMPORARY MULCHING WITH STRAW OR OTHER METHODS SHALL BE PROVIDED.
4. ALL DISTURBED SURFACES TO BE PLANTED SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL WITH THE SURFACE SMOOTHED TO THE SPECIFIED GRADES. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
5. ALL AREAS DESIGNATED TO BE SEEDED WILL BE HYDROSEEDDED, THE HYDROSEED MIX SHALL CONTAIN AN APPROPRIATE TACIFYING AGENT.
6. SEED APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS.

SEEDING MATERIAL

PERMANENT SEED MIXTURE

A. MOWED AREA (ALL FLATS OR SLOPES LESS THAN 3:1)

MIXTURE	% BY WEIGHT	SEEDING DATES
RED FESCUE	70	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUGUST 15 - OCTOBER 15
PERENNIAL RYEGRASS	15	
TOTAL:	200 LBS/AC.	

B. UNMOWED AREA OR INFREQUENTLY MOWED (ALL SLOPES GREATER THAN 3:1)

MIXTURE	% BY WEIGHT	SEEDING DATES
RED FESCUE	70	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUGUST 15 - OCTOBER 15
BIRDFOOT TREFLOIL	15	
TOTAL:	200 LBS/AC.	

2. TEMPORARY SEED MIXTURE (CONSTRUCTION CONDITIONS)

MIXTURE	LBS. / 1,000 S.F.	LBS. SEEDING DATES
ANNUAL RYEGRASS	1.0 - 1.5	40 - 60 1/1 - 6/1
PERENNIAL RYEGRASS	1.0 - 1.5	40 - 60 3/1 - 6/1
SUDAN GRASS	0.7 - 1.0	30 - 40 5/15 - 8/15
MILLET	0.7 - 1.0	30 - 40 5/15 - 8/15
WINTER RYE	1/2	1/1 - 6/15 or 10/15 - 12/31
OATS	0.5 - 5.0	86 - 120 3/1 - 6/15
KEEPING COVER GRASS	0.5 - 5.0	15 - 50 5/1 - 7/1

TEMPORARY TREATMENTS SHALL INCLUDE A HAY, STRAW, FIBER MULCH OR OTHER PROTECTIVE COVER SUCH AS A MAT OR FIBER COVER (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKET, ETC.) HAY OR STRAW APPLICATIONS SHOULD BE APPLIED AT 3,000 - 4,000 LBS/AC.

**DEEP OBSERVATION HOLE "1" LOG
ORIGINAL GRADE - 58.3**

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 1"	FILL	TOPSOIL			
1" - 36"	A	SAND			
36" - 50"	A	SANDY LOAM	10 YR 3/3	645* COMM. DIST. CRS.	LOOSE, SINGLE GRAIN MASSIVE, FRAGILE
50"-54"	B4	SANDY LOAM	10 YR 3/4		LOOSE, SINGLE GRAIN
54"-108"	C	MED.-CRS. SAND	10 YR 4/4		LOOSE, SINGLE GRAIN

OBSERVED STANDING GROUNDWATER - 16"
ESTIMATED HIGH GROUNDWATER - 45" (ELEV.=54.5)

OBSERVED KEEPING GROUNDWATER - 72"
REMOVE TO C HORIZON

**DEEP OBSERVATION HOLE "2" LOG
ORIGINAL GRADE - 60.4**

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 24"	FILL	TOPSOIL			
24" - 50"	A	SAND			
50" - 70"	A	SANDY LOAM	10 YR 3/3	670* COMM. DIST. CRS.	LOOSE, SINGLE GRAIN MASSIVE, FRAGILE
70"-84"	B4	SANDY LOAM	10 YR 3/3		LOOSE, SINGLE GRAIN
84"-132"	C	MED.-CRS. SAND	10 YR 4/4		LOOSE, SINGLE GRAIN

OBSERVED STANDING GROUNDWATER - 105"
ESTIMATED HIGH GROUNDWATER - 70" (ELEV.=59.4)

OBSERVED KEEPING GROUNDWATER - 101"

**DEEP OBSERVATION HOLE "3" LOG
ORIGINAL GRADE - 60.4**

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 18"	FILL	TOPSOIL			
18"-34"	FILL	HEAVY SAND			
34"-64"	FILL	MED. CRS. L.S.			
64"-74"	A	SANDY LOAM	10 YR 3/2	672* COMM. DIST. CRS.	MOTTLED GRAVELLY MASSIVE, FRESH
74"-84"	B4	SANDY LOAM	10 YR 4/6		MASSIVE, FRAGILE
84"-94"	C1	LOAMY SAND	2.5Y 3/2		LOOSE, SINGLE GRAIN
94"-132"	C2	SAND	5YR 3/4		LOOSE, SINGLE GRAIN GRAVELLY, COBBLELY
* THIN BLACK CEMENTED LAYER AT 34"-35"					

OBSERVED STANDING GROUNDWATER - 105"
ESTIMATED HIGH GROUNDWATER - 70" (ELEV.=54.4)

OBSERVED KEEPING GROUNDWATER - 101"

TESTING PERFORMED BY: CAPUTO AND WICK LTD. 6/5/04

**NEW ADMINISTRATION BUILDING
for the
CUMBERLAND HOUSING AUTHORITY**

1 MENDON ROAD, CUMBERLAND, RI



CUMBERLAND HOUSING AUTHORITY
573 MENDON ROAD, SUITE 4,
CUMBERLAND, RI

**Edward Rowse
ARCHITECTS**

115 Cedar Street Providence, RI 02903-1082 (401) 331-9200 Fax (401) 331-9270
Massachusetts Office (508) 252-5446
e-mail: rowse@rowsearch.com

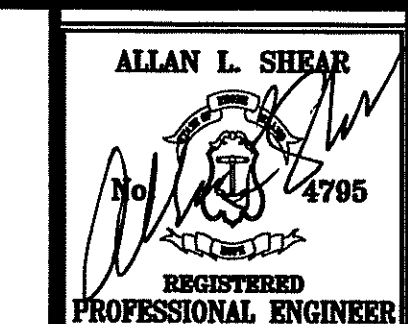
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CAPUTO AND WICK LTD.

Civil Engineering, Land Surveying, Environmental Services, Traffic Engineering and Construction Engineering
1150 PAWTUCKET AVE. RUMFORD, RI 02916-1897 Tel: 401-534-8800 Fax: 401-534-1615 mail@cwild.net www.cwild.net

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3. DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.



Date: JUNE 6, 2014

Drawn by: ALS Proj. Mgr.: DIB

Revisions

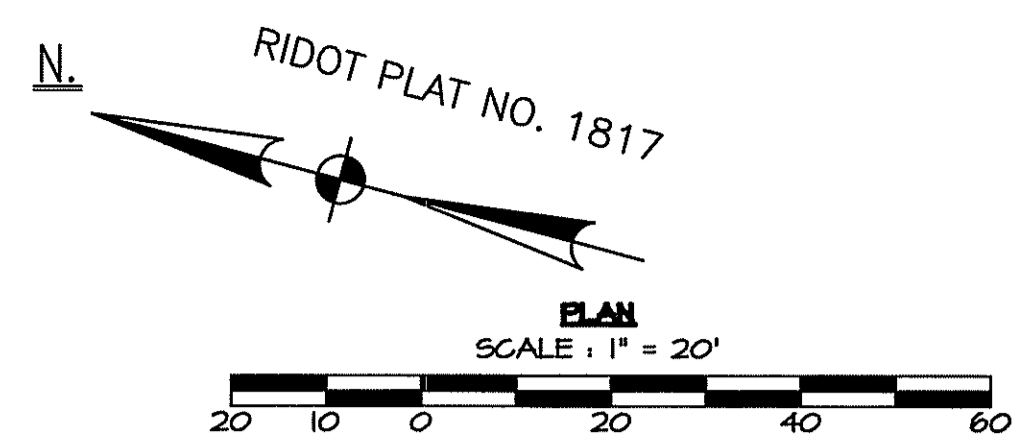
No. Date Description

1 8/6/14 Building footprint

CONSTRUCTION NOTES

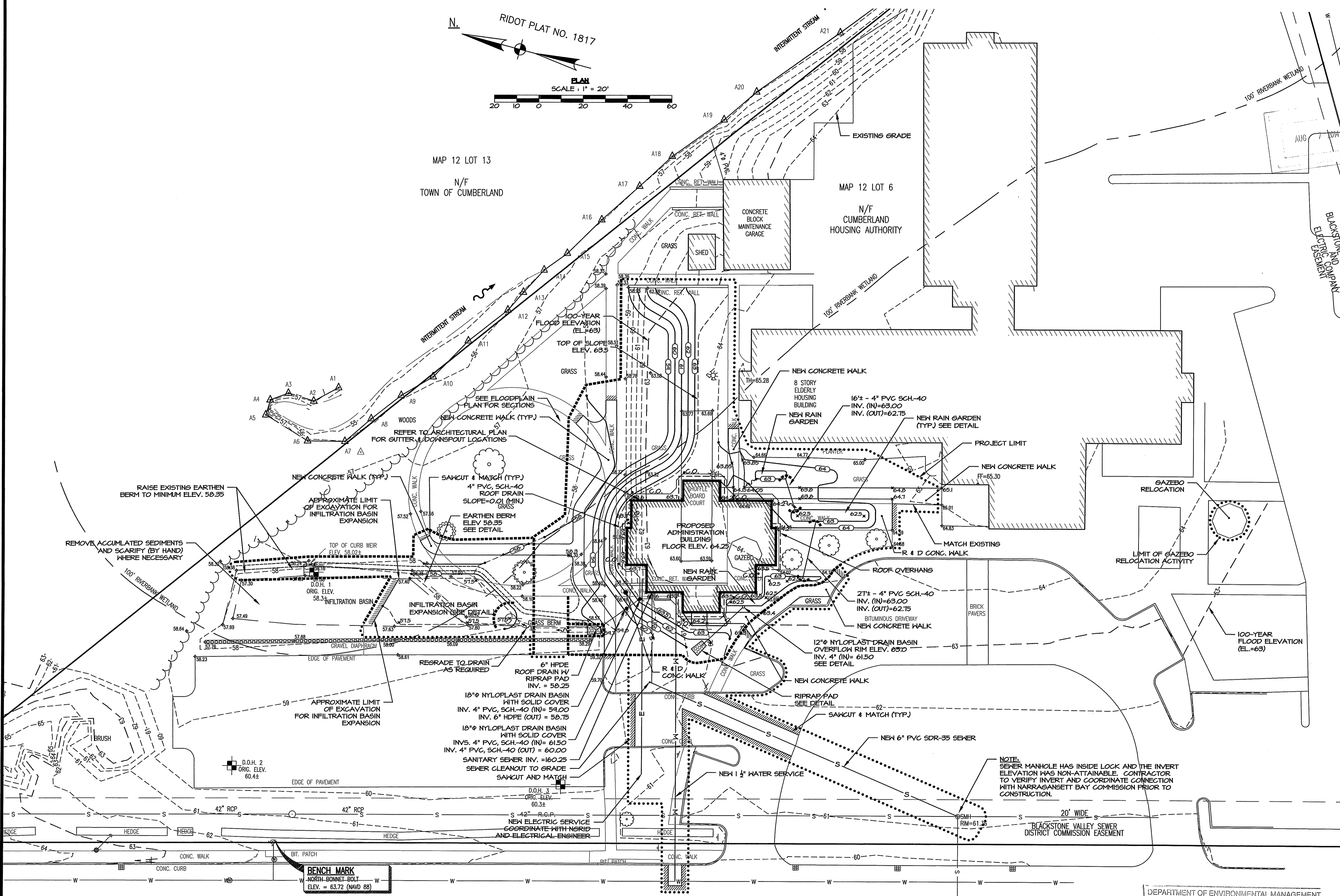
RIDEM SUBMISSION

C3.0



MAP 12 LOT 13
N/F
TOWN OF CUMBERLAND

MAP 12 LOT 6
N/F
CUMBERLAND
HOUSING AUTHORITY



NEW ADMINISTRATION BUILDING
for the
CUMBERLAND HOUSING AUTHORITY
1 MENDON ROAD, CUMBERLAND, RI



CUMBERLAND HOUSING AUTHORITY
573 MENDON ROAD, SUITE 4,
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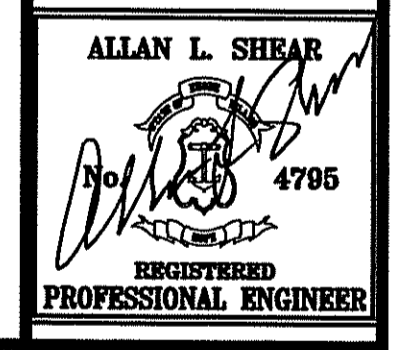
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Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



Date: JUNE 6, 2014
Drawn by: ALS Proj. Mgr.: DTB

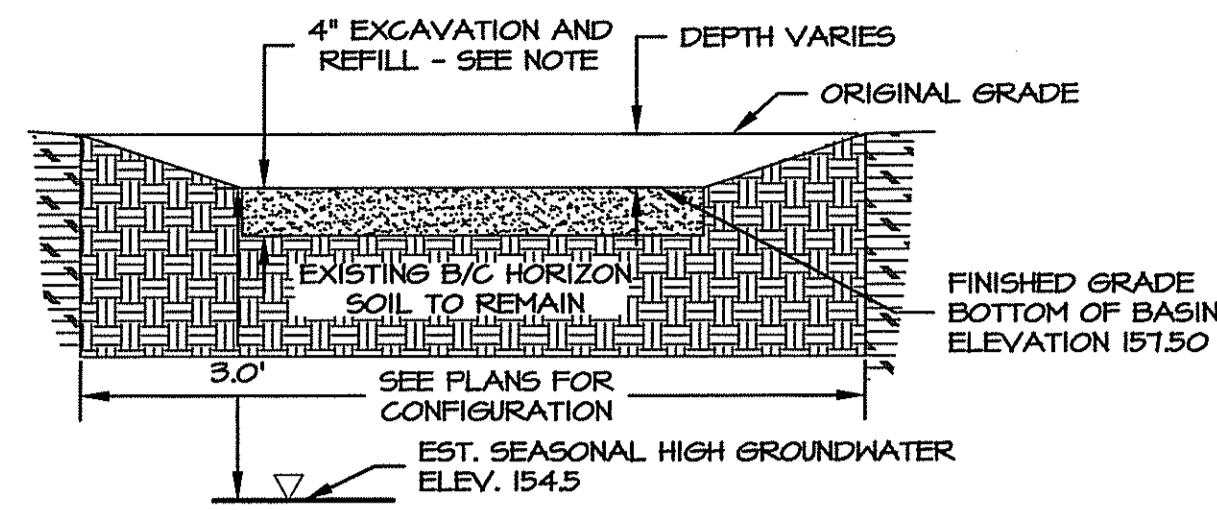
Revisions	No.	Date	Description
	1	8/6/14	Building footprint

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 10 2014 FILE # 14-0113
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Matthew D. Wencel

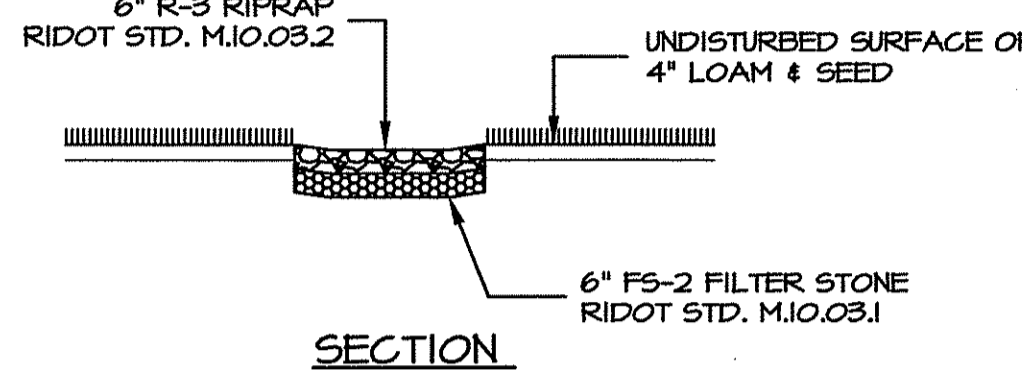
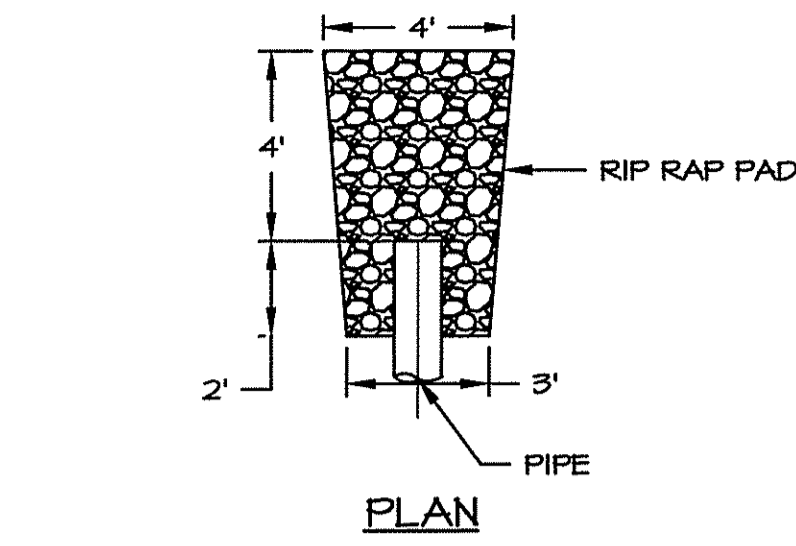
MENDON ROAD (ROUTE 122)

SITE PLAN
RIDEM SUBMISSION
C5.0
CADD FILE 5 of 7



BASIN PREPARATION AND PROTECTION NOTE:
 DURING A PERIOD WHEN WET WEATHER IS NOT FORECAST FOR THE DURATION OF THE BASIN CONSTRUCTION, REMOVE EXISTING A AND B HORIZONS TO ELEVATION 140.67'. SCARIFY BOTTOM OF EXCAVATION BY HAND AND REMOVE ALL STONES 3" AND GREATER. NO HEAVY EQUIPMENT SHALL BE ALLOWED ON THE BOTTOM OF THE EXCAVATION. PLACE 4" OF PERVIOUS FILL MEETING THE SPECIFICATIONS OF RULE 32.121 OF RIDEM "RULES ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS. ROTOTILL THE PERVIOUS FILL WITH THE PERVIOUS EXISTING SOIL. SEED DISTURBED AREA WITH MIX OF 50% CREEPING RED FESCUE AND 50% TALL FESCUE AT A RATE OF 40 LBS. PER ACRE. APPLY SEED, MULCH AND FERTILIZER IN ACCORDANCE WITH RIDEM "SOIL EROSION AND SEDIMENT CONTROL HANDBOOK". PROTECT BASIN FROM HEAVY EQUIPMENT AT ALL TIMES. REPAIR AREAS DAMAGED BY EROSION.

TYPICAL INFILTRATION BASIN DETAIL
 NOT TO SCALE

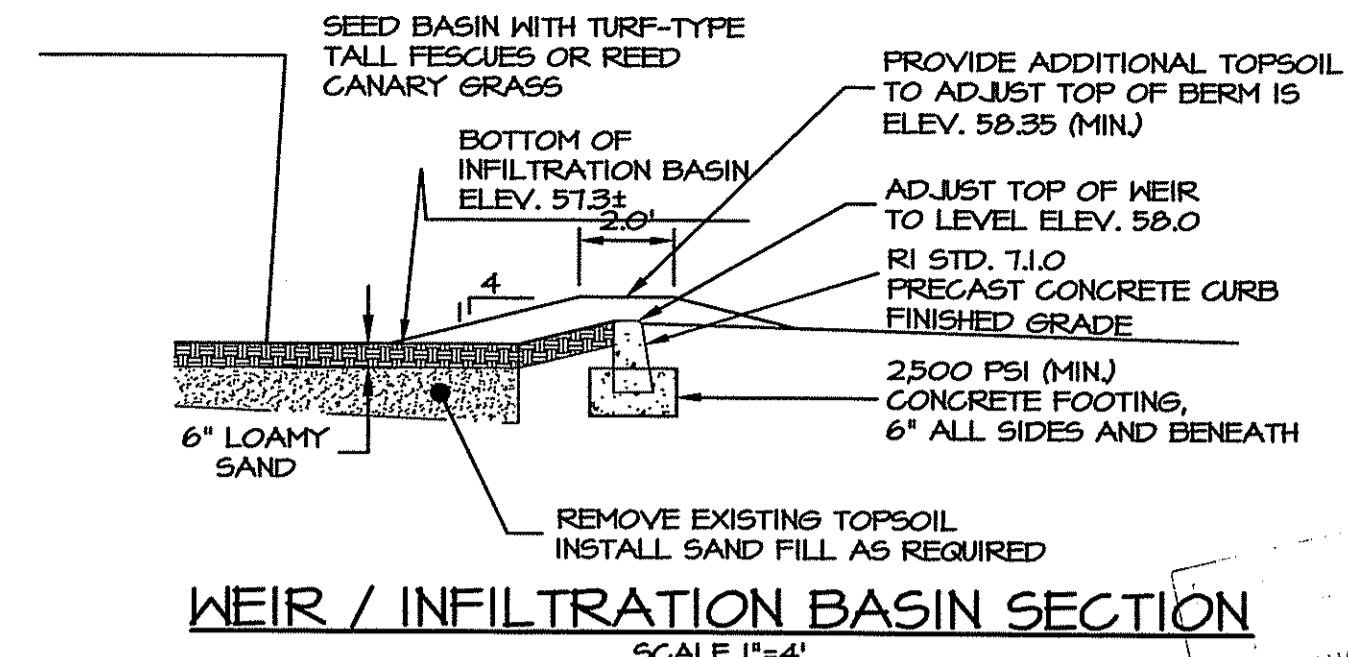


DETAIL - PIPE END OUTLET PROTECTION
 NOT TO SCALE

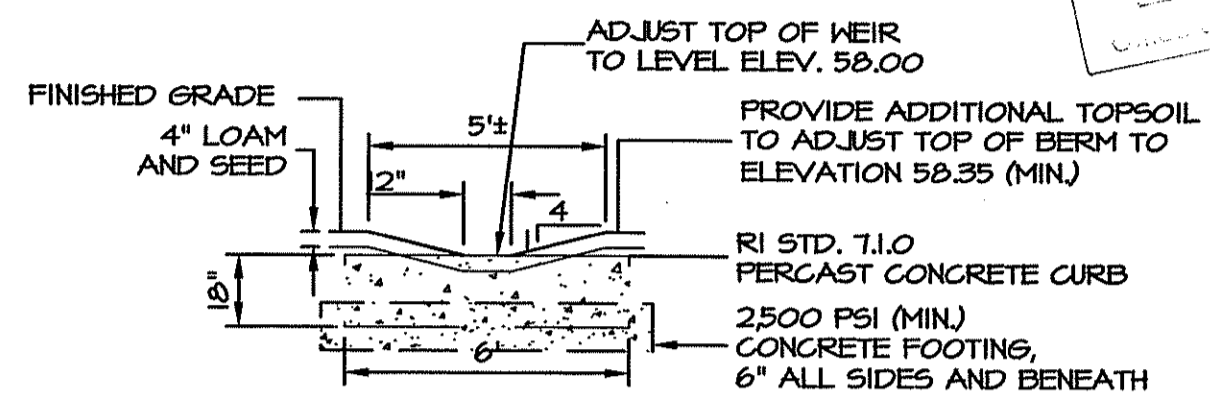
NOTES:

1. THE LOAMY SAND AND SAND FILL SHALL BE FREE OF STONES, STUMPS, ROOTS, OTHER WOODY MATERIAL, OR BRUSH/SEEDS FROM NOXIOUS WEEDS. REFER TO THE U. S. D. A. SOIL TEXTURE CLASSIFICATION FOR MORE INFORMATION THE PROPOSED FILL MATERIALS.
2. THE 2" THICK MULCH LAYER SHOULD BE SHREDDED HARDWOOD MULCH THAT IS WELL AGED (STOCKPILED OR STORED FOR AT LEAST SIX (6) MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS, SUCH AS WEED SEEDS, SOIL, ROOTS, ETC. THE MULCH SHOULD BE APPLIED TO A DEPTH OF THREE INCHES. GRASS CLIPPINGS SHOULD NOT BE USED AS A MULCH MATERIAL.
3. FOR MAINTENANCE AND AESTHETIC PURPOSES, THE MULCH MAY BE APPLIED FROM BUILDING OUTWARD TO CREATE A CURVILINEAR PLANTING BED.
4. SUGGESTED PLANTS TO INSTALL INCLUDE RHODODENDRONS (RHODODENDRON SPP.), SPIRAEA CULTIVARS (SPIRAEA SPP.), DAYLILIES (HEMEROCALLIS SPP.), AND DWARF FOUNTAIN GRASS (PENNISETUM ALOPECUROIDES 'HAMELIN'), ARRANGED IN CONSIDERATION OF DESCENDING HEIGHT FROM THE BUILDING.

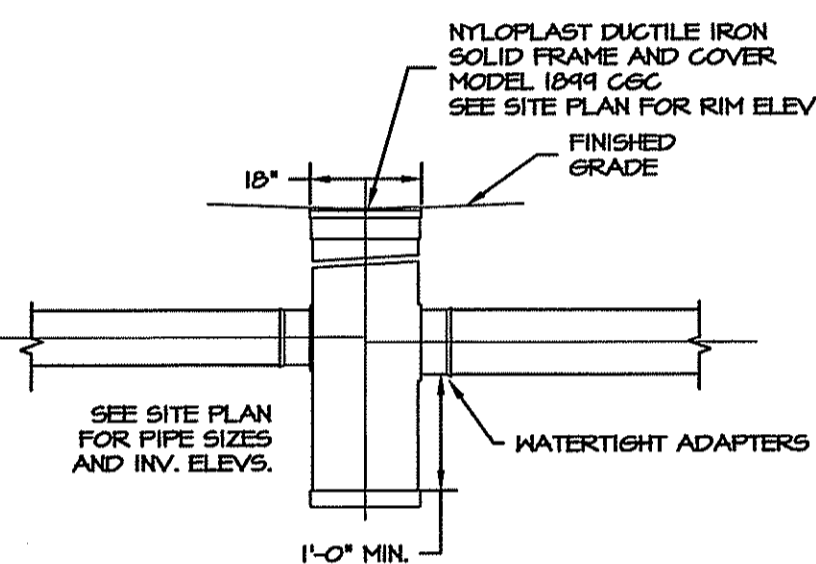
RAIN GARDEN SECTION
 NOT TO SCALE



WEIR / INFILTRATION BASIN SECTION
 SCALE 1"=4'



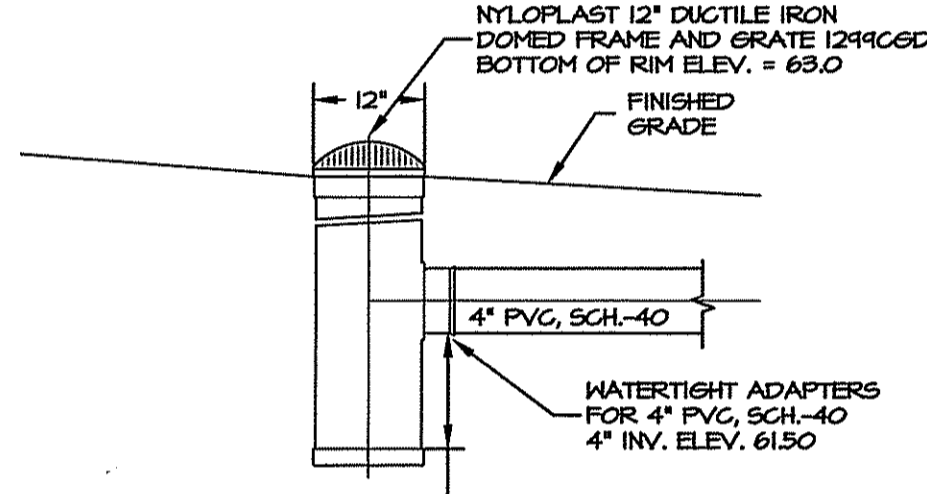
DETAIL - WEIR PROFILE
 SCALE 1"=4'



**18\"/>
 SECTION A-A**

COMPONENTS MANUFACTURED BY NYLOPLAST - A DIVISION OF ADVANCED DRAINAGE SYSTEMS, INC. 180 RIMFORD AVENUE MANSFIELD, MA. 02048 781-223-1446

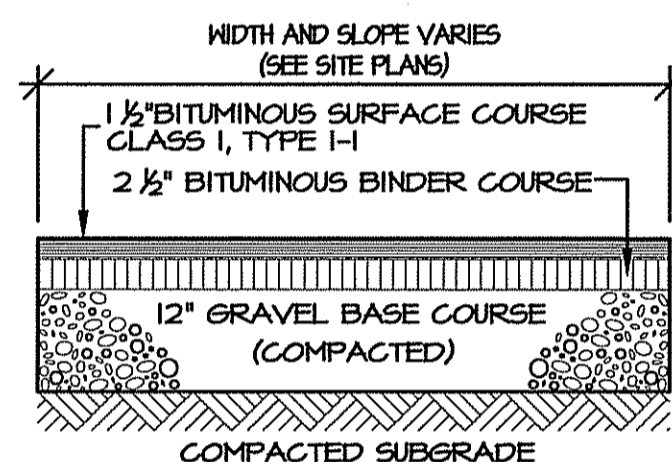
**18\"/>
 NOT TO SCALE**



**12\"/>
 SECTION A-A**

COMPONENTS MANUFACTURED BY NYLOPLAST - A DIVISION OF ADVANCED DRAINAGE SYSTEMS, INC. 180 RIMFORD AVENUE MANSFIELD, MA. 02048 781-223-1446

DETAIL - NYLOPLAST OVERFLOW DRAIN BASIN OR EQUAL
 NOT TO SCALE

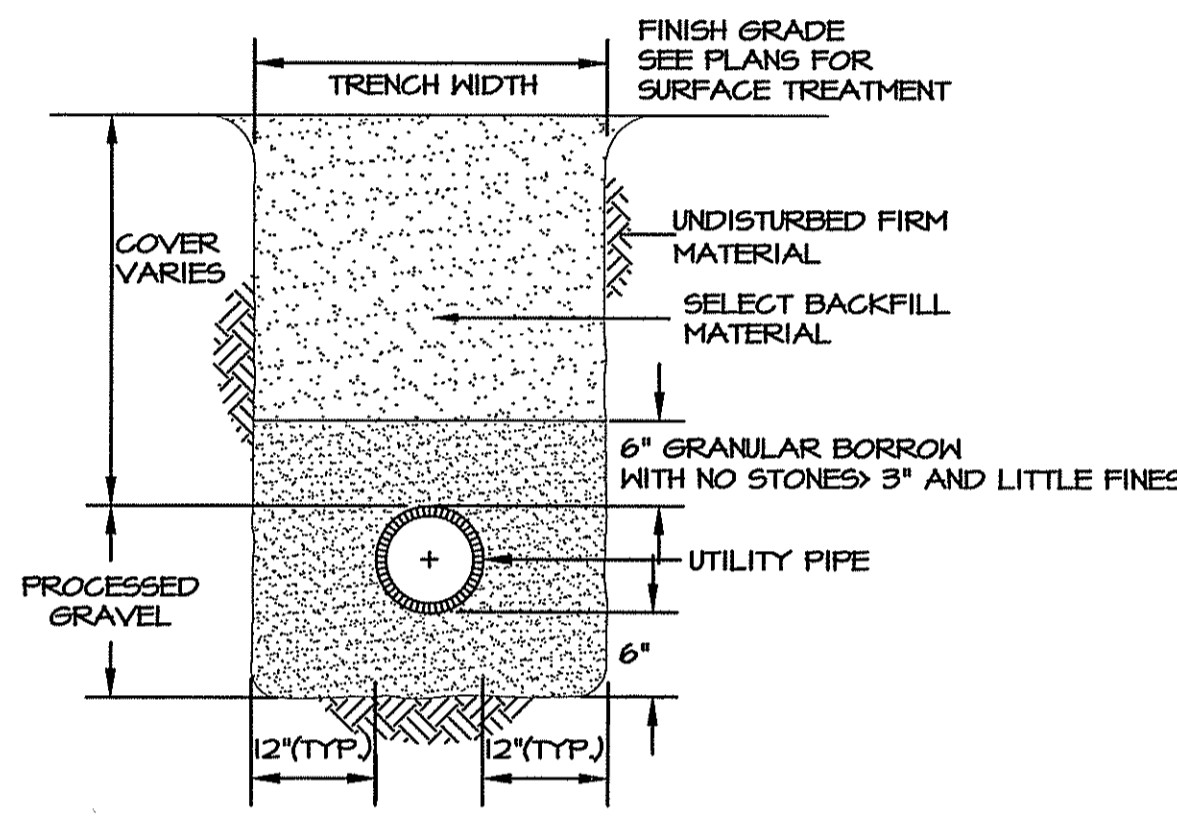


NOTES:

- 1) ALL PAVEMENT, GRAVEL AND GRANULAR FILL TO CONFORM WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 2) ALL LOAM, TOPSOIL, SUBSOIL, ROOTS, ROCK OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM WITHIN OF LIMITS OF PAVEMENT. INSTALL CLEAN, GRANULAR FILL PLACED IN 12" MAXIMUM LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY.

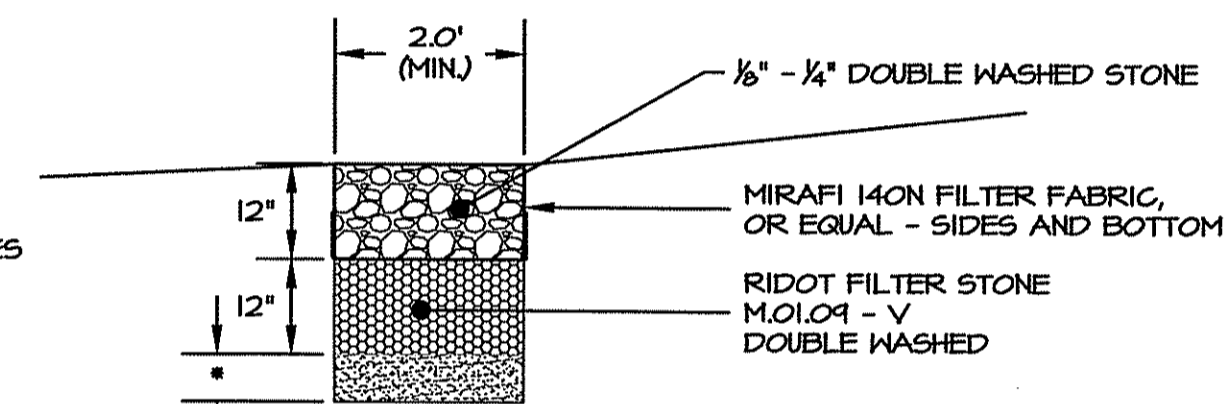
BITUMINOUS CONCRETE PAVEMENT

DETAIL
 NOT TO SCALE



GENERAL NOTES:
 FINISH GRADE MATERIAL VARIES (SEE SITE PLAN). COMPACT BACKFILL IN 8" LIFTS TO 95% OF MAX. DRY DENSITY.

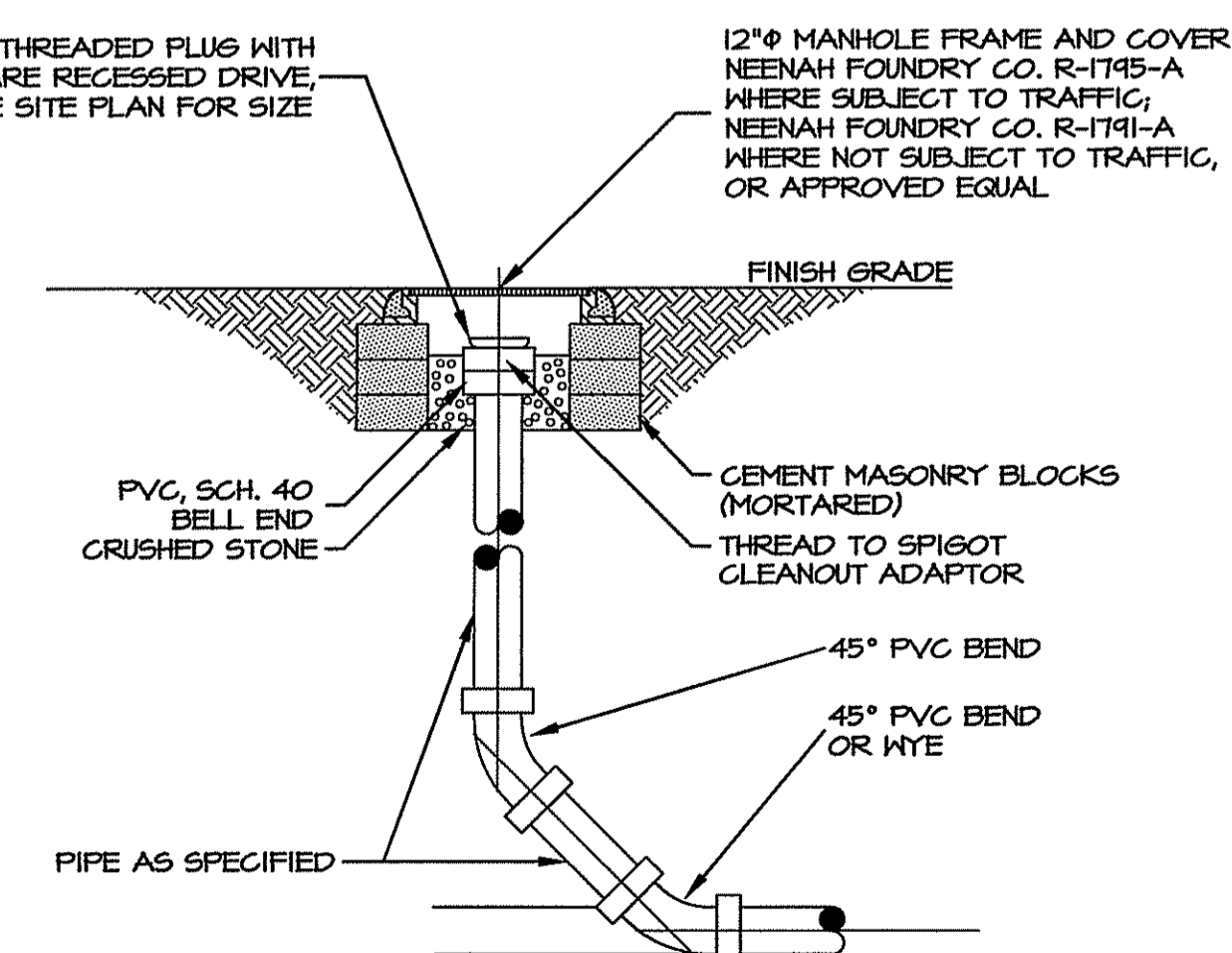
UTILITY TRENCH DETAIL
 NOT TO SCALE



* - REMOVE ALL TOPSOIL AND SUBSOIL WITHIN LIMITS OF GRAVEL DIAPHRAGM. REPLACE WITH BANK RUN GRAVEL CONTAINING LITTLE TO NO FINES TO WITHIN 24" OF FINISHED GRADE.

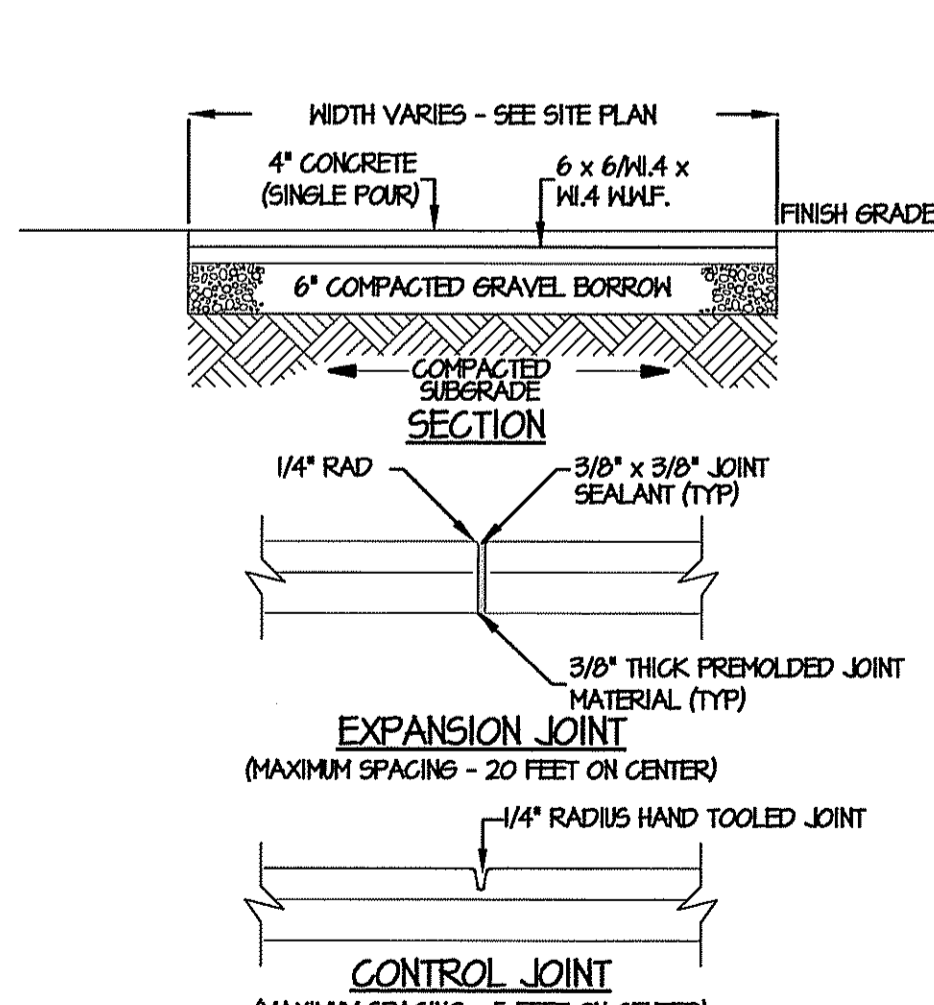
DETAIL - GRAVEL DIAPHRAGM
 SCALE 1"=2'-0"

(FOR REPAIR AND/OR RECONSTRUCTION OF EXISTING DIAPHRAGM AS NEEDED)



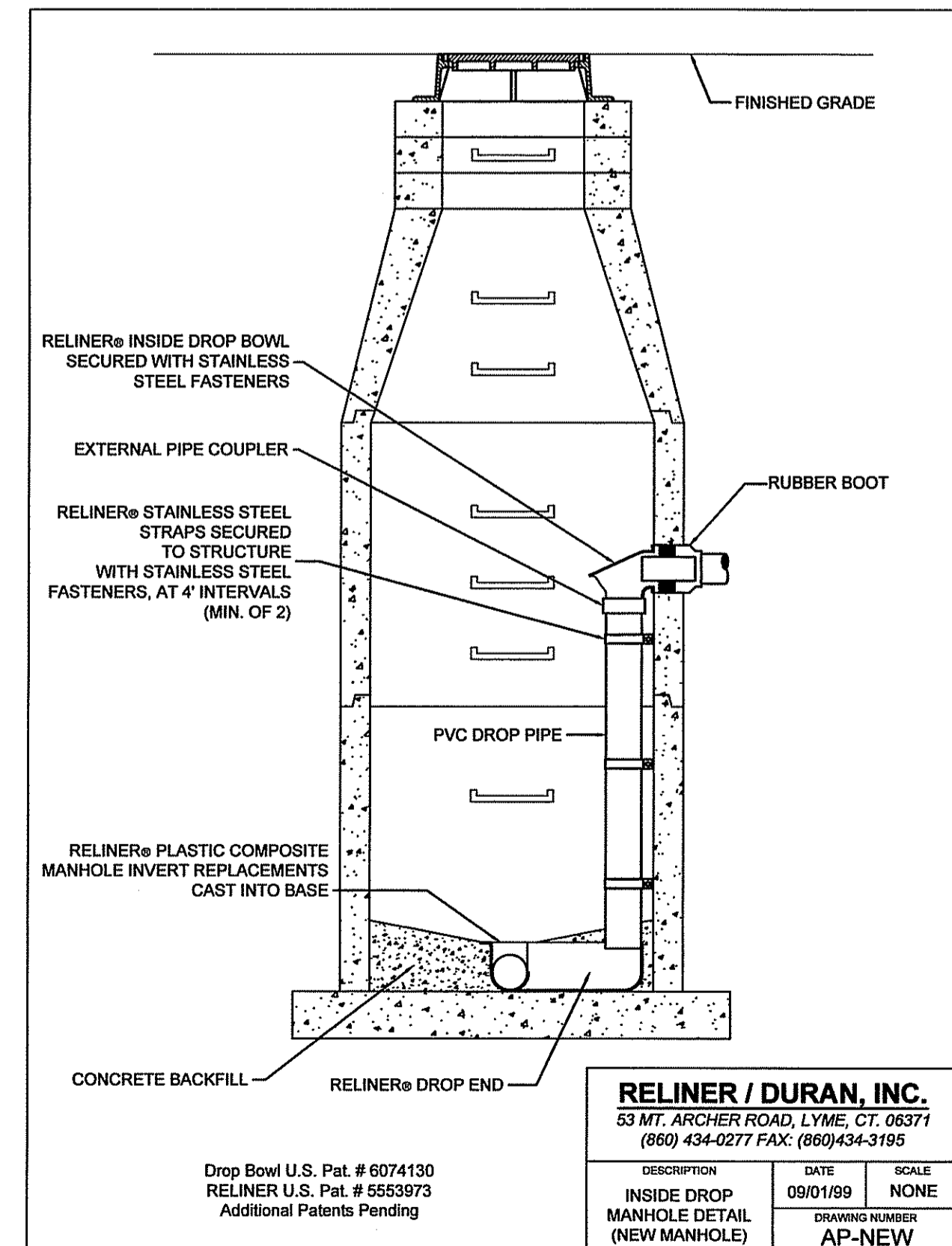
NOTE: SEE SITE PLAN FOR PIPE SIZE AND MATERIAL.

DETAIL - CLEANOUT
 NOT TO SCALE



NOTE: ALL LOAM, TOPSOIL, SUBSOIL, ROOTS OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM WITHIN OF LIMITS OF PAVEMENT. REMOVED MATERIAL SHALL BE REPLACED WITH CLEAN, GRANULAR FILL PLACED IN 12" MAXIMUM LIFTS AND SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY.

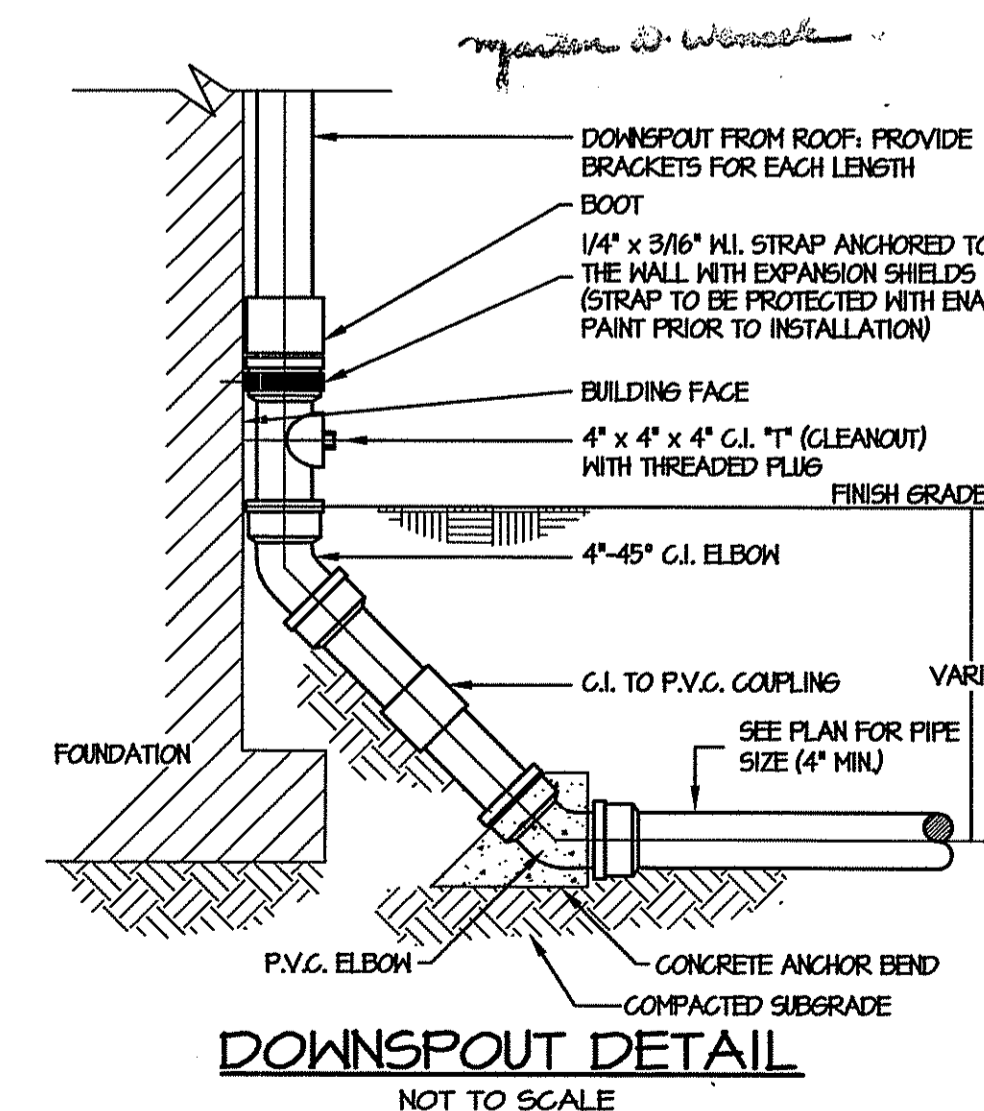
CONCRETE SIDEWALK DETAIL



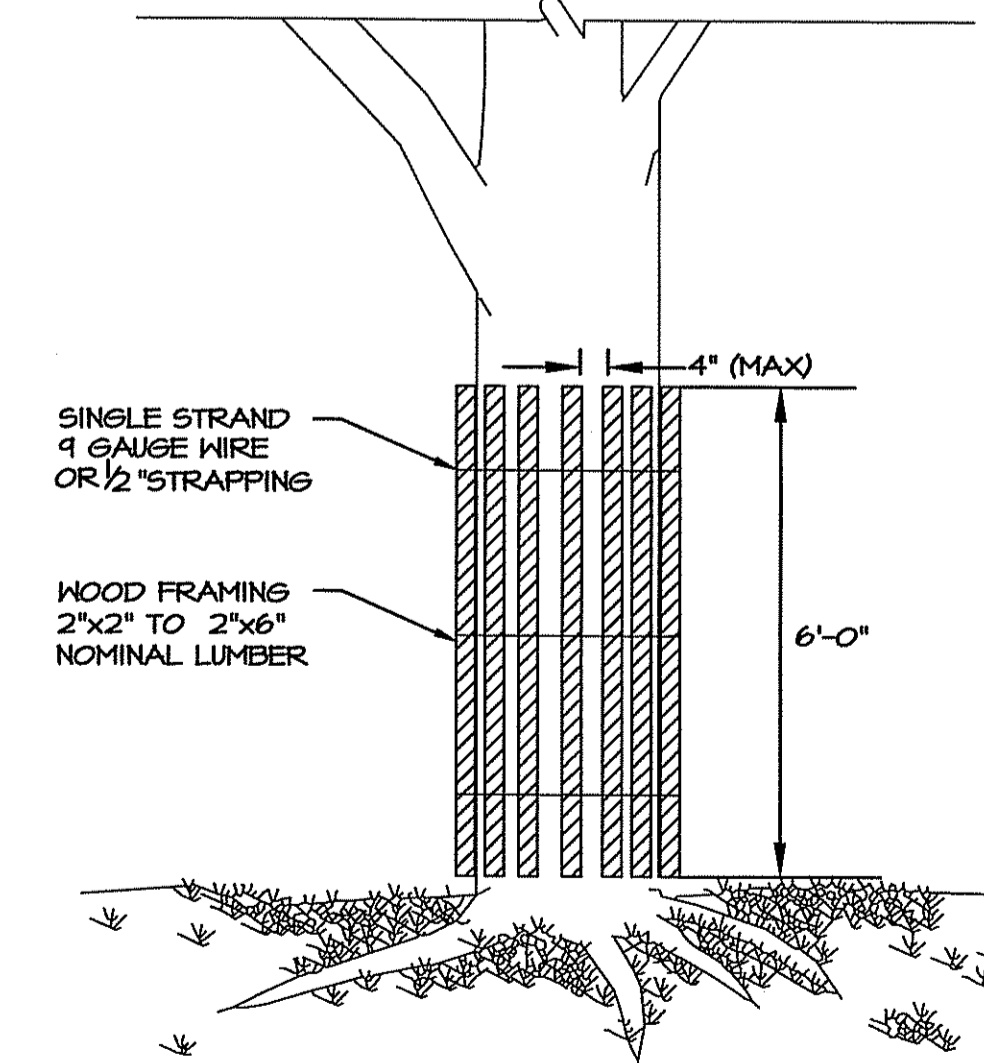
Drop Bowl U.S. Pat. # 6074130
 RELINER U.S. Pat. # 5553973
 Additional Patents Pending

RELINER / DURAN, INC.		
53 MT. ARCHER ROAD, LYME, CT. 06371		
(860) 434-0277 FAX: (860) 434-3195		
DESCRIPTION	DATE	SCALE
INSIDE DROP MANHOLE DETAIL (NEW MANHOLE)	09/01/99	NONE
DRAWING NUMBER	AP-NEW	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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DOWNSPOUT DETAIL
 NOT TO SCALE



TREE PROTECTION
 NOT TO SCALE

NEW ADMINISTRATION BUILDING for the CUMBERLAND HOUSING AUTHORITY

1 MENDON ROAD, CUMBERLAND, RI



CUMBERLAND HOUSING AUTHORITY
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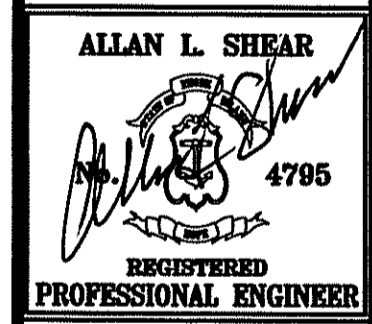
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Date: JUNE 6, 2014

Drawn by: ALS Proj. Mgr.: DTB

Revisions	No.	Date	Description
1	8/6/14	Building footprint	

DETAILS

RIDEM SUBMISSION

C6.0

NEW ADMINISTRATION BUILDING
for the
CUMBERLAND HOUSING AUTHORITY



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CUMBERLAND HOUSING AUTHORITY
573 MENDON ROAD, SUITE 4,
CUMBERLAND, RI

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ALLAN L. SHRAR
REGISTERED PROFESSIONAL ENGINEER
4795

Date: JUNE 6, 2014

Drawn by: ALS Proj. Mgr.: DTB

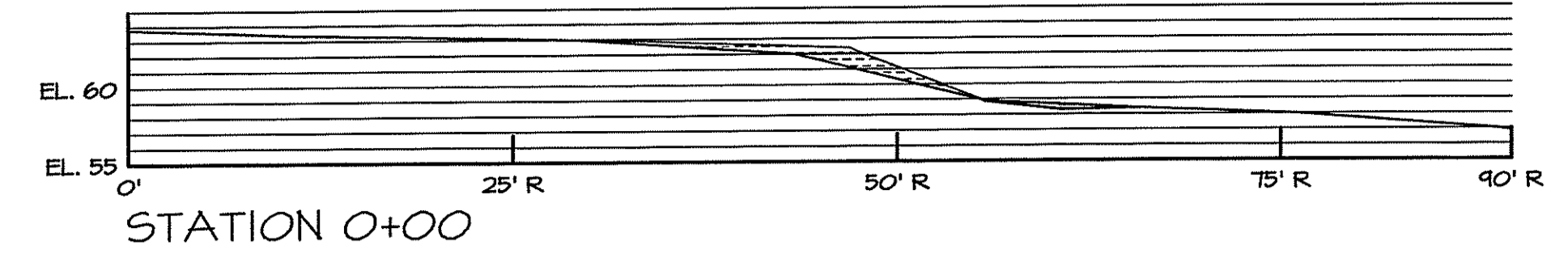
No.	Date	Description
1	8/6/14	Building footprint

FLOODPLAIN SECTIONS

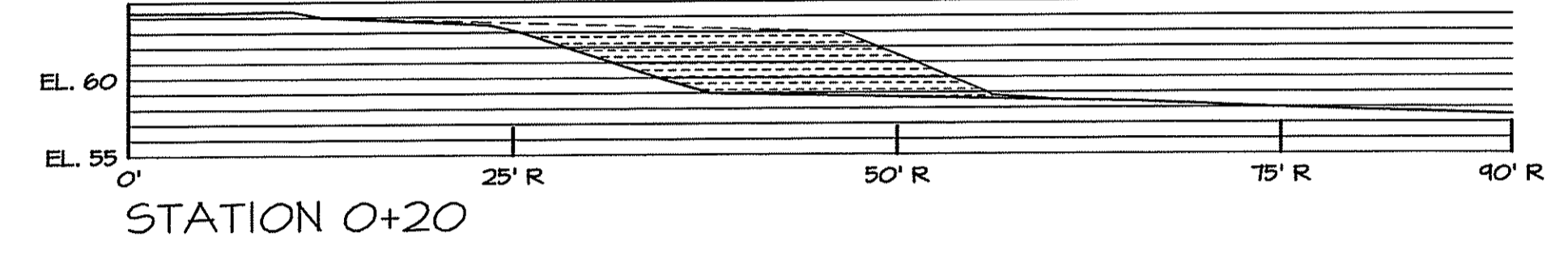
RIDEM SUBMISSION

C7.0

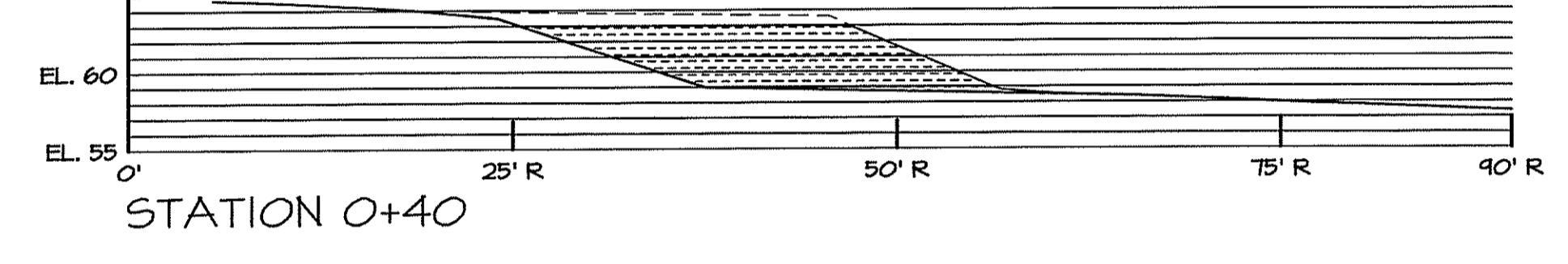
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	0	1.75
59-60	0.80	0
60-61	2.25	0
61-62	3.70	0
62-63	5.16	0



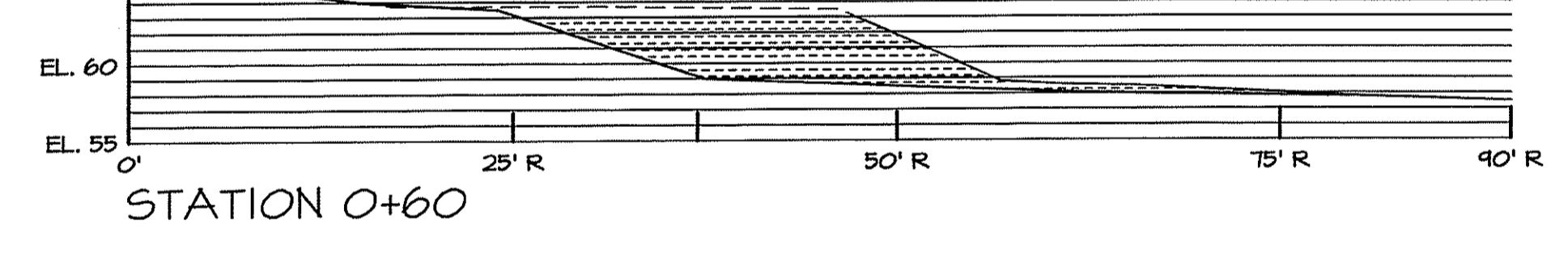
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	4.11	0
59-60	18.55	0
60-61	14.25	0
61-62	14.45	0
62-63	20.45	0



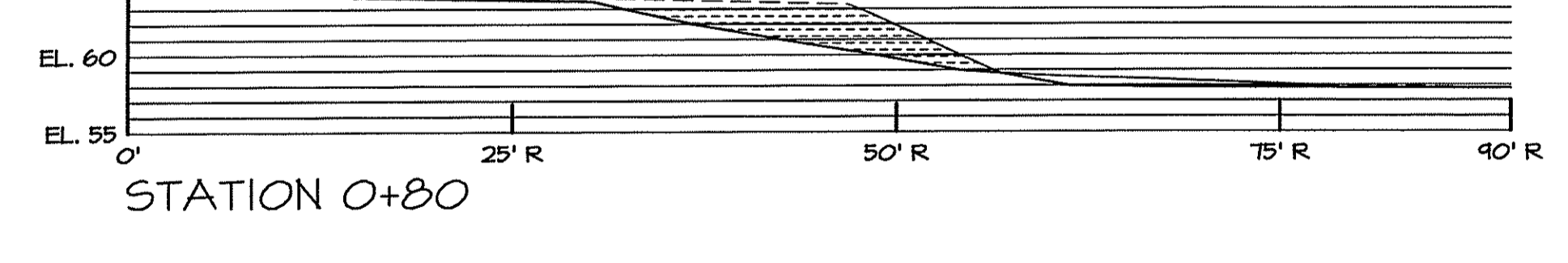
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	4.37	0
59-60	14.05	0
60-61	14.75	0
61-62	20.40	0
62-63	21.05	0



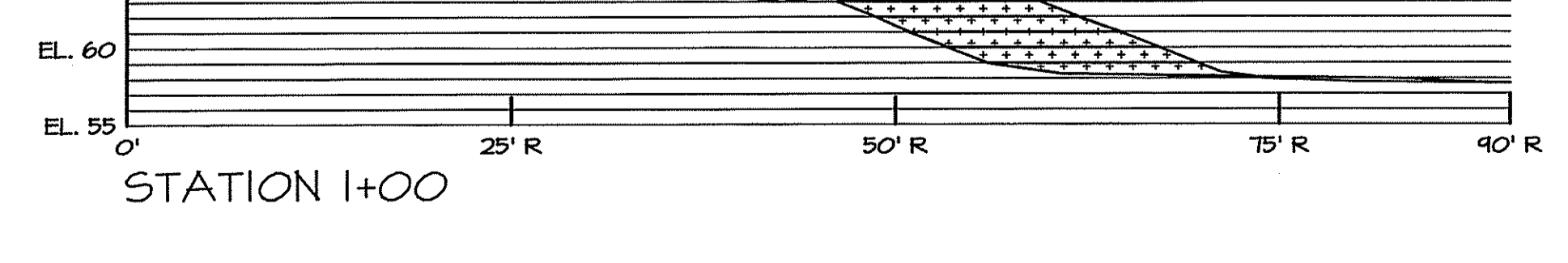
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	5.32	0
59-60	14.20	0
60-61	20.00	0
61-62	20.75	0
62-63	21.45	0



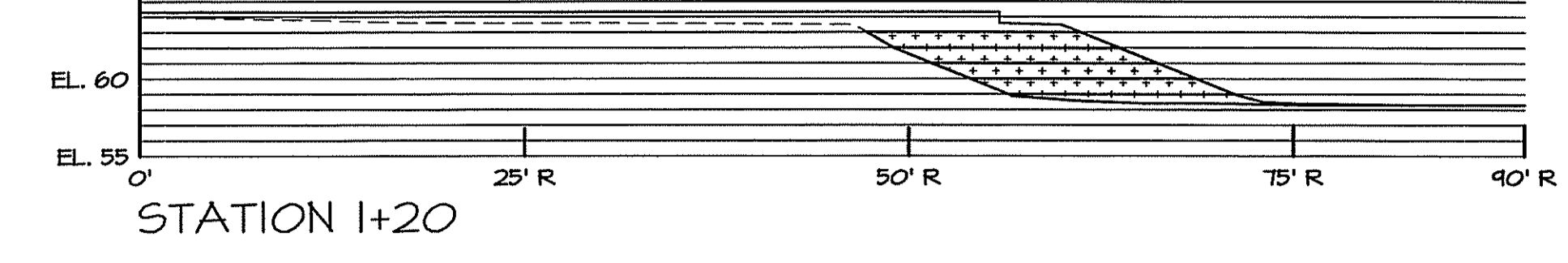
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	6.35	0.25
59-60	3.20	0
60-61	7.45	0
61-62	11.25	0
62-63	14.15	0



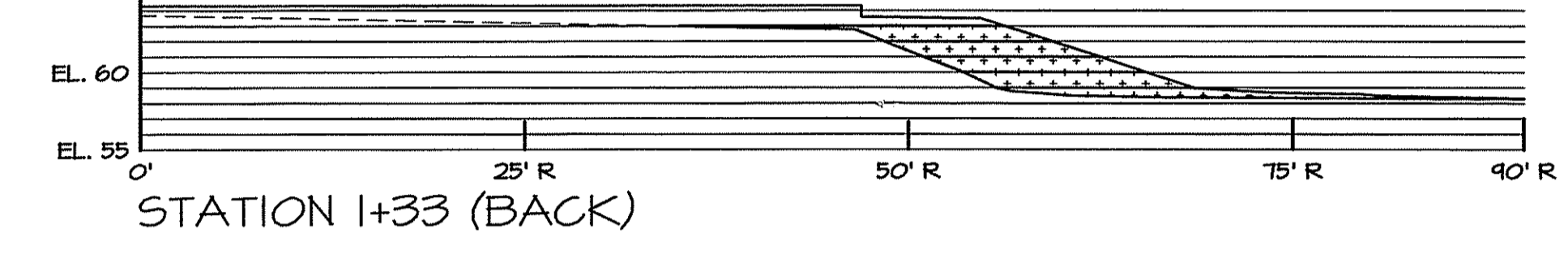
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	2.20	1.74
59-60	0	13.75
60-61	0	13.75
61-62	0	13.45
62-63	0	13.20



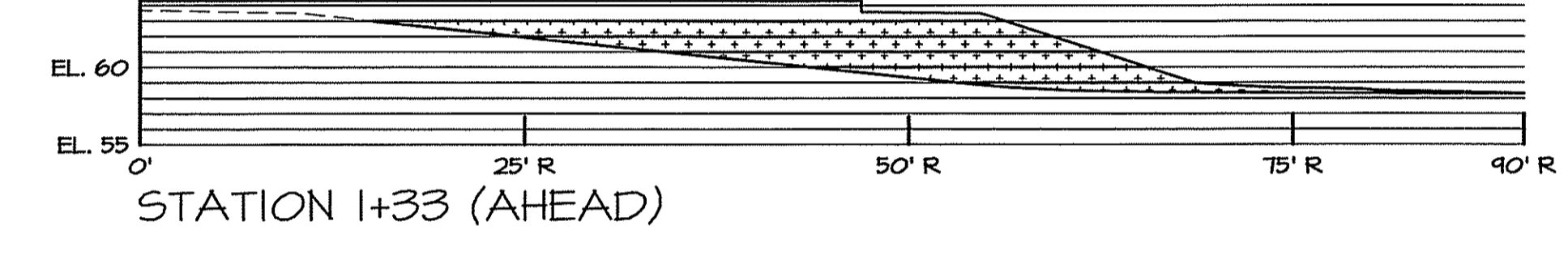
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
57-58	0	8.06
58-59	0	12.44
59-60	0	14.70
60-61	0	14.70
61-62	0	14.70
62-63	0	14.32



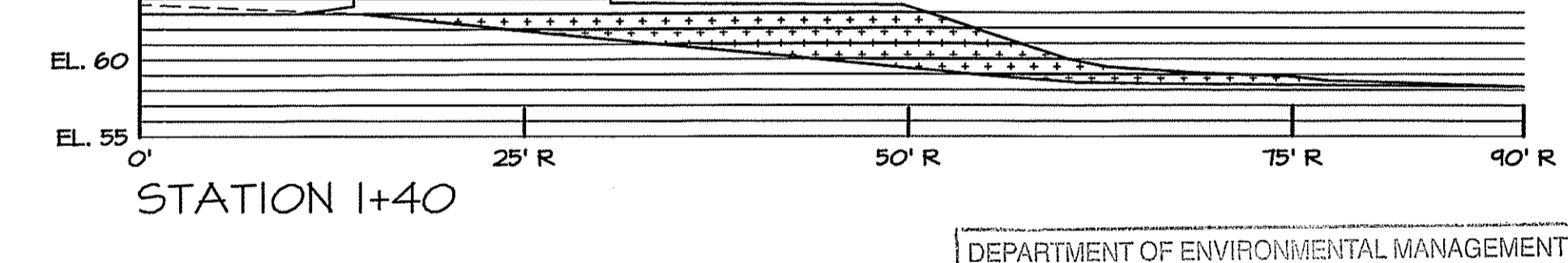
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	0	11.35
59-60	0	12.40
60-61	0	11.70
61-62	0	11.25
62-63	0	11.74



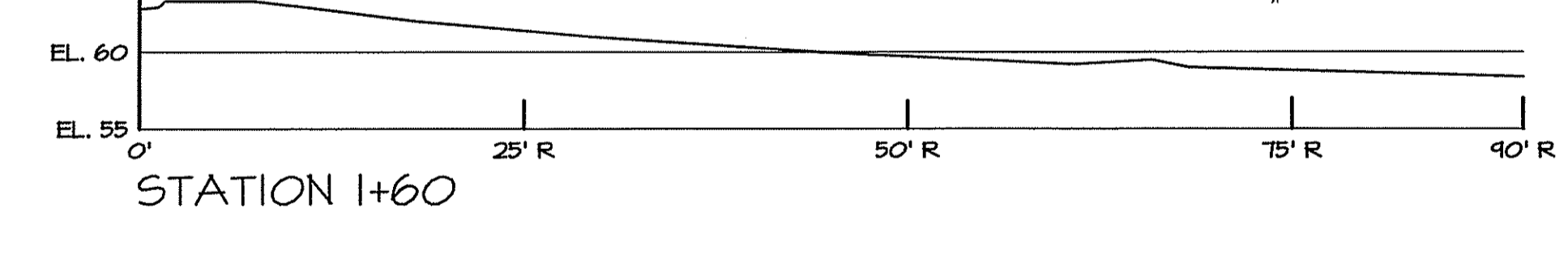
ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	0	11.45
59-60	0	15.01
60-61	0	25.15
61-62	0	31.60
62-63	0	38.00



ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	0	12.42
59-60	0	15.01
60-61	0	20.05
61-62	0	26.90
62-63	0	33.45



ELEV.	CUT AREA (S.F.)	FILL AREA (S.F.)
58-59	0	0
59-60	0	0
60-61	0	0
61-62	0	0
62-63	0	0



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 10 2014 FILE # 14-0113
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Kindly be advised that this
Permit is not equivalent to a
verification of the type or extent
of freshwater wetlands on site.

VOLUME CALCULATIONS OF FLOODPLAIN CUTS AND FILLS BY ELEVATION AND STATION PROPOSED ADMINISTRATION BUILDING CUMBERLAND HOUSING, CUMBERLAND, RI MAY 2014 REVISED AUG. 2014

ELEV. (FT)	PLAN STATION*	PROPOSED CUT AREA (FT²)	PROPOSED CUT VOLUME (FT³)	PROPOSED FILL AREA (FT²)	PROPOSED FILL VOLUME (FT³)
58-59	0+00	0	41.1	1.75	17.5
	0+20	4.11	84.8	0	0
	0+40	4.37	196.9	0	0
	0+60	15.32	216.7	0.25	2.5
	0+80	6.35	86.3	0.25	99.9
	1+00	2.28	22.8	8.06	178.0
	1+20	0	0	11.33	128.0
1+33(B) EX. WALL 1+33(A)	0	0	11.55	0	86.7
1+40	0	0	12.22	0	129.2
1+60	0	0	0	0	0
TOTAL		648.8	638.8		638.8

ADDITIONAL FLOODPLAIN VOLUME PROVIDED AT ELEVATIONS 58 - 59 648.8 - 638.8 = 10.0 CUBIC FEET

VOLUME CALCULATIONS OF FLOODPLAIN CUTS AND FILLS BY ELEVATION AND STATION PROPOSED ADMINISTRATION BUILDING CUMBERLAND HOUSING, CUMBERLAND, RI MAY 2014 REVISED AUG. 2014

ELEV. (FT)	PLAN STATION*	PROPOSED CUT AREA (FT²)	PROPOSED CUT VOLUME (FT³)	PROPOSED FILL AREA (FT²)	PROPOSED FILL VOLUME (FT³)
58-60	0+00	0.80	0	0	0
	0+20	18.55	376.0	0	0
	0+40	19.05	382.5	0	0
	0+60	19.20	236.0	0	0
	0+80	3.80	38.0	0	137.5
	1+00	0	0	13.75	262.4
	1+20	0	0	12.49	161.8
1+33(B) EX. WALL 1+33(A)	0	0	12.40	0	117.8
1+40	0	0	15.01	0	156.1
1+60	0	0	0	0	0
TOTAL		1220.0	820.6		820.6

ADDITIONAL FLOODPLAIN VOLUME PROVIDED AT ELEVATIONS 59 - 60 1220.0 - 820.6 = 399.4 CUBIC FEET

VOLUME CALCULATIONS OF FLOODPLAIN CUTS AND FILLS BY ELEVATION AND STATION PROPOSED ADMINISTRATION BUILDING CUMBERLAND HOUSING, CUMBERLAND, RI MAY 2014 REVISED AUG. 2014

ELEV. (FT)	PLAN STATION*	PROPOSED CUT AREA (FT²)	PROPOSED CUT VOLUME (FT³)	PROPOSED FILL AREA (FT²)	PROPOSED FILL VOLUME (FT³)
60-61	0+00	2.25	216.0	0	0
	0+20	13.35	267.0	0	0
	0+40	13.75	267.5	0	0
	0+60	20.60	204.0	0	0
	0+80	7.45	74.5	0	137.5
	1+00	0	0	13.75	264.4
	1+20	0	0	14.70	171.6
1+33(B) EX. WALL 1+33(A)	0	0	11.70	0	117.8
1+40	0	0	25.15	0	158.2
1+60	0	0	26.90	0	200.5
1+80	0	0	0	0	0
TOTAL		1333.5	952.3		952.3

ADDITIONAL FLOODPLAIN VOLUME PROVIDED AT ELEVATIONS 60 - 61 1333.5 - 952.3 = 381.2 CUBIC FEET

VOLUME CALCULATIONS OF FLOODPLAIN CUTS AND FILLS BY ELEVATION AND STATION PROPOSED ADMINISTRATION BUILDING CUMBERLAND HOUSING, CUMBERLAND, RI MAY 2014 REVISED AUG. 2014

ELEV. (FT)	PLAN STATION*	PROPOSED CUT AREA (FT²)	PROPOSED CUT VOLUME (FT³)	PROPOSED FILL AREA (FT²)	PROPOSED FILL VOLUME (FT³)
61-62	0+00	3.70	351.0	0	0
	0+20	18.95	379.0	0	0
	0+40	20.40	408.0	0	0
	0+60	23.75	238.0	0	0
	0+80	11.25	112.5	0	134.5
	1+00	0	0	13.45	275.2
	1+20	0	0	14.70	169.7
1+33(B) EX. WALL 1+33(A)	0	0	11.25	0	117.8
1+40	0	0	31.60	0	204.8
1+60	0	0	28.90	0	238.0
1+80	0	0	0	0	0
TOTAL		1464.0	1658.5		1658.5

ADDITIONAL FLOODPLAIN VOLUME PROVIDED AT ELEVATIONS 61 - 62 1464.0 - 1658.5 = -194.5 CUBIC FEET

VOLUME CALCULATIONS OF FLOODPLAIN CUTS AND FILLS BY ELEVATION AND STATION PROPOSED ADMINISTRATION BUILDING CUMBERLAND HOUSING, CUMBERLAND, RI MAY 2014 REVISED AUG. 2014

ELEV. (FT)	PLAN STATION*	PROPOSED CUT AREA (FT²)	PROPOSED CUT VOLUME (FT³)	PROPOSED FILL AREA (FT²)	PROPOSED FILL VOLUME (FT³)
62-63	0+00	5.16	516.0	0	0
	0+20	20.45	409.0	0	0
	0+40	21.05	421.0	0	0
	0+60	21.45	398.0	0	0
	0+80	14.15	141.5	0	134.5
	1+00	0	0	13.20	275.2
	1+20	0	0	14.32	169.7
1+33(B) EX. WALL 1+33(A)	0	0	11.79	0	169.7
1+40	0	0	0	0	256.1
1+60	0	0	0	0	334.5
1+80	0	0	0	0	0
TOTAL		1599.6	0	1161.5	1161.5

ADDITIONAL FLOODPLAIN VOLUME PROVIDED AT ELEVATIONS 62 - 63 1599.6 - 1161.5 = 438.1 CUBIC FEET