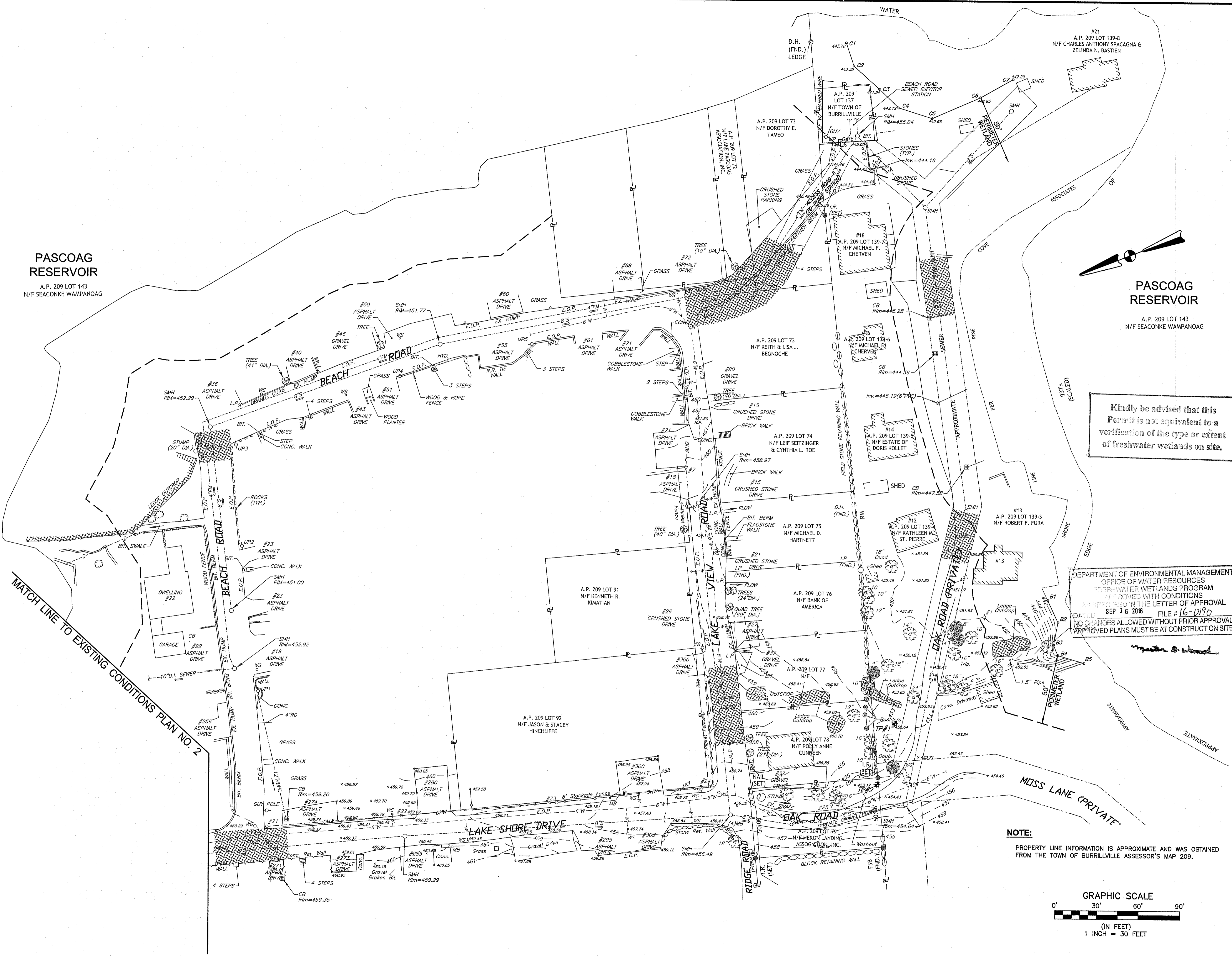


PASCOAG RESERVOIR

A.P. 209 LOT 143
N/F SEACONKE WAMPANOAG

PASCOAG RESERVOIR

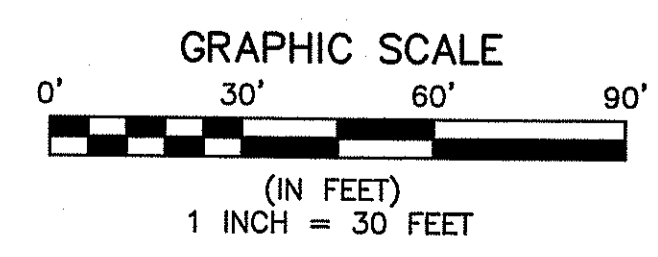
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N/F SEACONKE WAMPANOAG



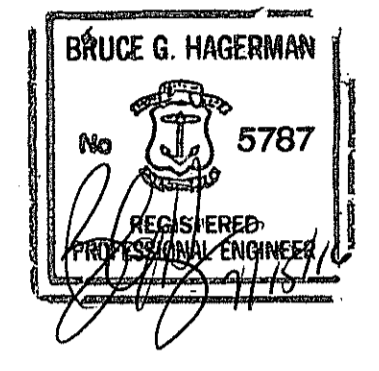
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 06 2016 FILE # 16-0190
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:
PROPERTY LINE INFORMATION IS APPROXIMATE AND WAS OBTAINED FROM THE TOWN OF BURRILLVILLE ASSESSOR'S MAP 209.



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Environmental Management
JUL 15 2016
Office of Water Resources

PROJECT TITLE:
LAKE SHORE DRIVE
NEIGHBORHOOD
RECLAMATION &
RESURFACING PROJECT
BURRILLVILLE, R.I.

PREPARED FOR:
TOWN OF BURRILLVILLE
DEPARTMENT OF PUBLIC WORKS
65 UNION STREET
HARRISVILLE, R.I. 02830

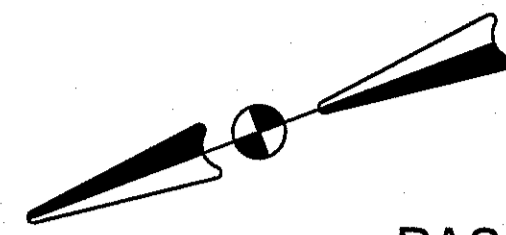
DRAWING TITLE:
EXISTING CONDITIONS
PLAN No. 3

DATE: JUNE 2016 **SCALE:** 1"=30'
DWG. NAME: 2073-04-EXCN PLANS.dwg

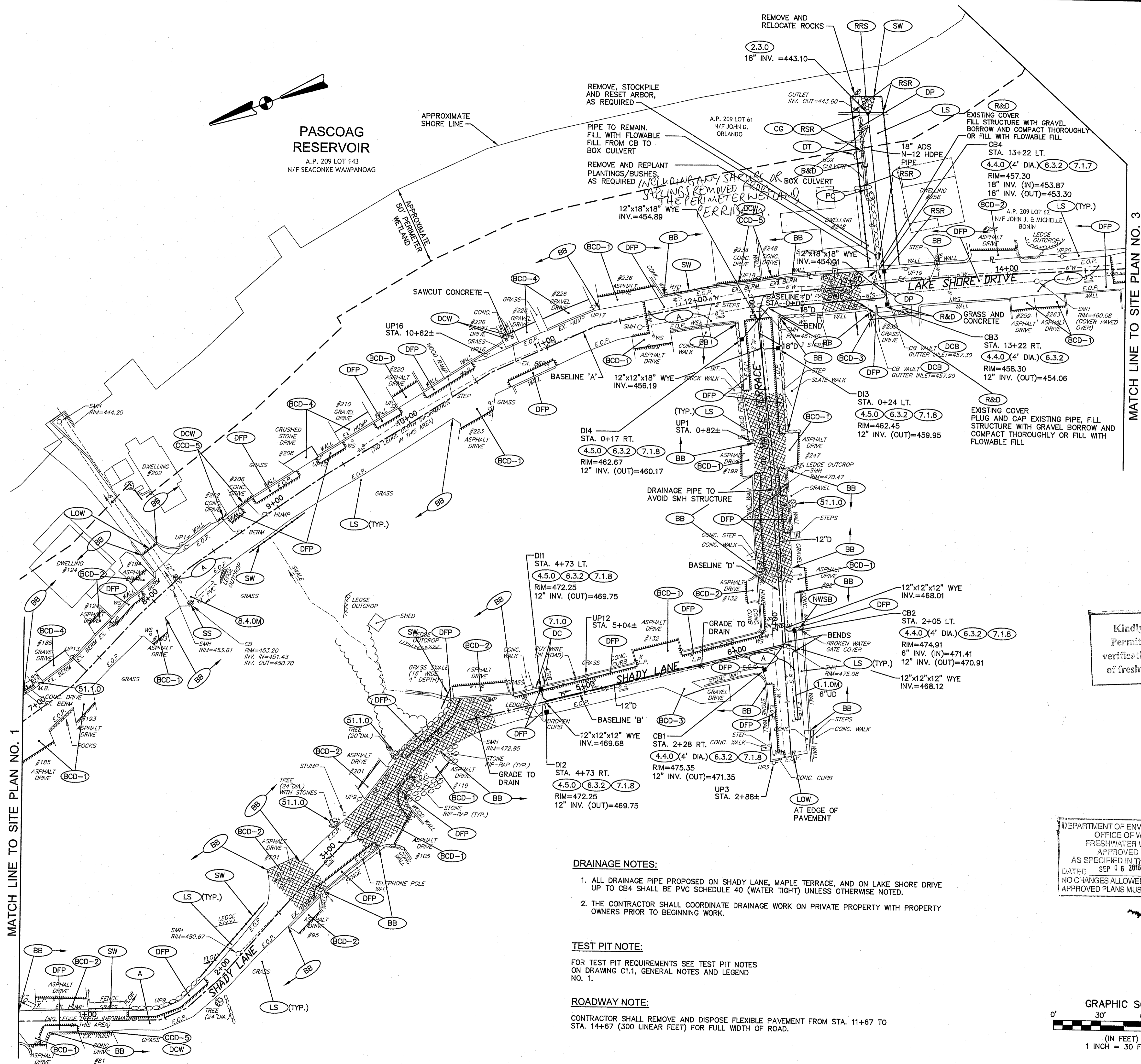
REVISIONS

NUMBER	REMARKS	DATE

DRAWING NUMBER
C2.3
SHEET: 6 OF 17



PASCOAG RESERVOIR
A.P. 209 LOT 143
N/F SEACONKE WAMPANOAG



MATCH LINE TO SITE PLAN NO. 3

MATCH LINE TO SITE PLAN NO. 1

DRAINAGE NOTES:

1. ALL DRAINAGE PIPE PROPOSED ON SHADY LANE, MAPLE TERRACE, AND ON LAKE SHORE DRIVE UP TO CB4 SHALL BE PVC SCHEDULE 40 (WATER TIGHT) UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL COORDINATE DRAINAGE WORK ON PRIVATE PROPERTY WITH PROPERTY OWNERS PRIOR TO BEGINNING WORK.

TEST PIT NOTE:

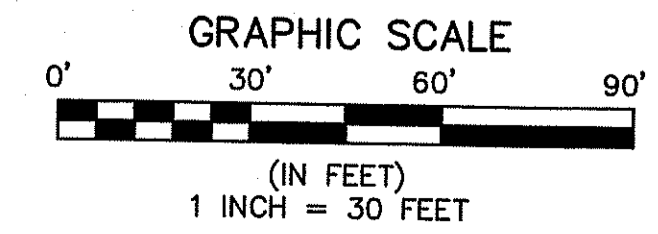
FOR TEST PIT REQUIREMENTS SEE TEST PIT NOTES ON DRAWING C1.1, GENERAL NOTES AND LEGEND NO. 1.

ROADWAY NOTE:

CONTRACTOR SHALL REMOVE AND DISPOSE FLEXIBLE PAVEMENT FROM STA. 11+67 TO STA. 14+67 (300 LINEAR FEET) FOR FULL WIDTH OF ROAD.

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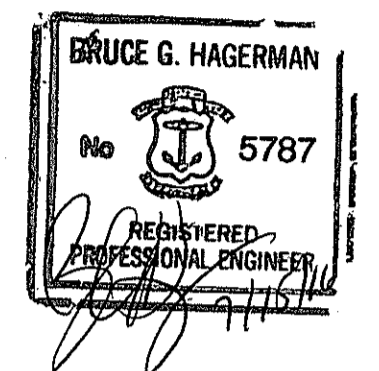
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Environmental Management
JUL 15 2016
Office of Water Resources

PROJECT TITLE:

LAKE SHORE DRIVE
NEIGHBORHOOD
RECLAMATION &
RESURFACING PROJECT

BURRILLVILLE, R.I.

PREPARED FOR:

TOWN OF BURRILLVILLE
DEPARTMENT OF PUBLIC WORKS

65 UNION STREET
HARRISVILLE, R.I. 02830

DRAWING TITLE:

SITE PLAN No. 2

DATE:

JUNE 2016

SCALE:

1"=30'

DWG. NAME:

2073-07-SITE PLANS.dwg

REVISIONS

NUMBER	REMARKS	DATE

DRAWING NUMBER

C3.2

SHEET: 8 OF 17

NOTES:

- ALL DRAINAGE WORK SHALL BE PERFORMED DURING THE LOW FLOW SEASON JULY 1ST TO OCTOBER 31ST.
- IN THE EVENT OF A POTENTIAL SIGNIFICANT STORM EVENT, SUCH AS A HURRICANE, THE CONTRACTOR MUST BE DIRECTED TO STOP WORK AND REMOVE THE PERIMETER EROSION CONTROLS PRIOR TO THE STORM. IMMEDIATELY AFTER THE STORM, THE CONTRACTOR SHALL RESET ALL PERIMETER EROSION CONTROLS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE.
- OAK ROAD CAN BE TEMPORARILY CLOSED UPON RECEIVING WRITTEN APPROVAL FROM THE BURRILLVILLE DEPARTMENT OF PUBLIC WORKS PRIOR TO STARTING WORK.
- THE CONTRACTOR MUST COORDINATE ALL OF THE WORK ON PRIVATE PROPERTY WITH THE OWNERS WHERE THE WORK WILL BE PERFORMED. THE CONTRACTOR MUST PROVIDE VERBAL AND WRITTEN NOTIFICATION TO THE PROPERTY OWNERS OF THE START OF CONSTRUCTION, 5-DAYS IN ADVANCE.
- THE CONTRACTOR IS REQUIRED TO PROTECT HIS/HER WORK FROM DAMAGE DURING ALL STORM EVENTS. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIRING ALL STORM DAMAGE.
- STORMWATER FLOW MUST BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

WATER LINE RELOCATION NOTES:

- REFER TO DETAILS AND NOTES ON PLAN NO. CS.2 MISCELLANEOUS DETAILS PLAN NO. 2.
- CONTRACTOR TO PERFORM PRELIMINARY TEST PITS TO CONFIRM UTILITY CROSSING DEPTHS AND THAT THE LOCATIONS ARE SUITABLE. IF THE SELECTED LOCATION IS DETERMINED TO BE UNSUITABLE, PASCOAG UTILITY DISTRICT (PUD) OR THE TOWN OF BURRILLVILLE DPW, THE CONTRACTOR SHALL PERFORM ADDITIONAL TEST PITS TO DETERMINE SUITABLE LOCATIONS. THE HOMEOWNER AND TOWN OF BURRILLVILLE DPW SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF THE DAY THE TEST PITS ARE TO BE PERFORMED.
- THE CONTRACTOR MUST CLOSELY COORDINATE ALL WATER LINE RELOCATION WORK WITH THE TOWN AND THE HOMEOWNERS. THE CONTRACTOR MUST NOTIFY THE HOMEOWNERS AFFECTED AT LEAST TWO WEEKS IN ADVANCE OF THE SCHEDULED DATE FOR WORK.

TEST PIT NOTE

FOR TEST PIT REQUIREMENTS SEE TEST PIT NOTES ON DRAWING C1.1, GENERAL NOTES AND LEGEND NO. 1.

HOUSE NO. 18 LAKEVIEW ROAD NOTE

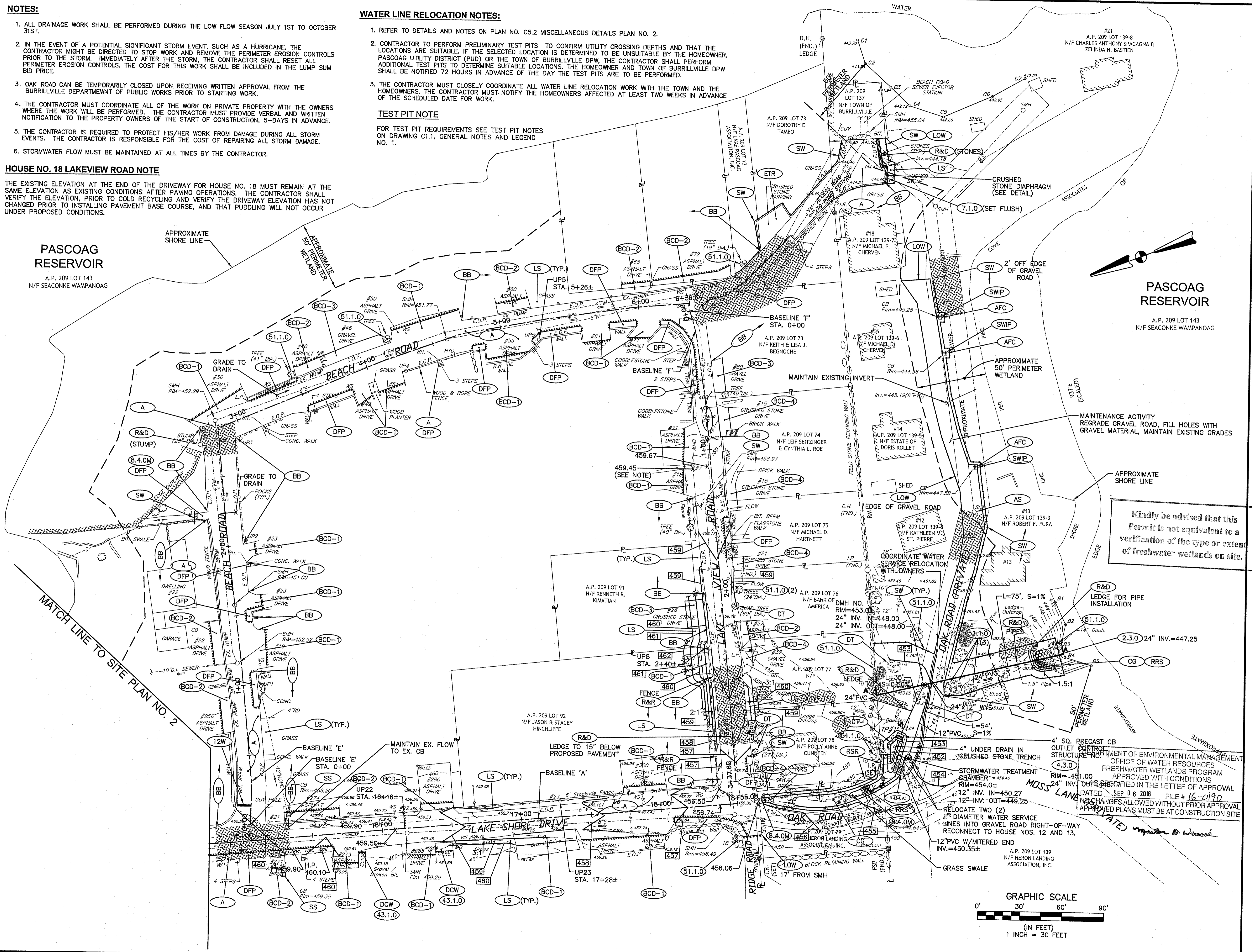
THE EXISTING ELEVATION AT THE END OF THE DRIVEWAY FOR HOUSE NO. 18 MUST REMAIN AT THE SAME ELEVATION AS EXISTING CONDITIONS AFTER PAVING OPERATIONS. THE CONTRACTOR SHALL VERIFY THE ELEVATION, PRIOR TO COLD RECYCLING AND VERIFY THE DRIVEWAY ELEVATION HAS NOT CHANGED PRIOR TO INSTALLING PAVEMENT BASE COURSE, AND THAT PUDDLING WILL NOT OCCUR UNDER PROPOSED CONDITIONS.

PASCOAG RESERVOIR

A.P. 209 LOT 143
N/F SEACONKE WAMPANOAG

PASCOAG RESERVOIR

A.P. 209 LOT 143
N/F SEACONKE WAMPANOAG

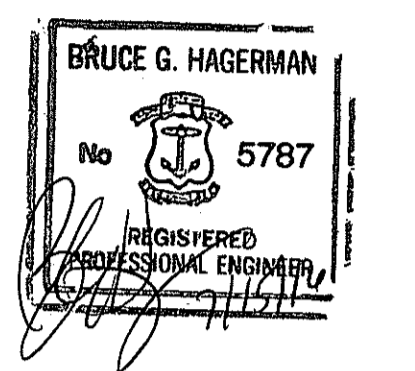


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Environmental Management
JUL 15 2016
Office of Water Resources

PROJECT TITLE:
LAKE SHORE DRIVE NEIGHBORHOOD RECLAMATION & RESURFACING PROJECT

BURRILLVILLE, R.I.
PREPARED FOR:
TOWN OF BURRILLVILLE
DEPARTMENT OF PUBLIC WORKS
65 UNION STREET
HARRISVILLE, R.I. 02830

DRAWING TITLE:
SITE PLAN No. 3

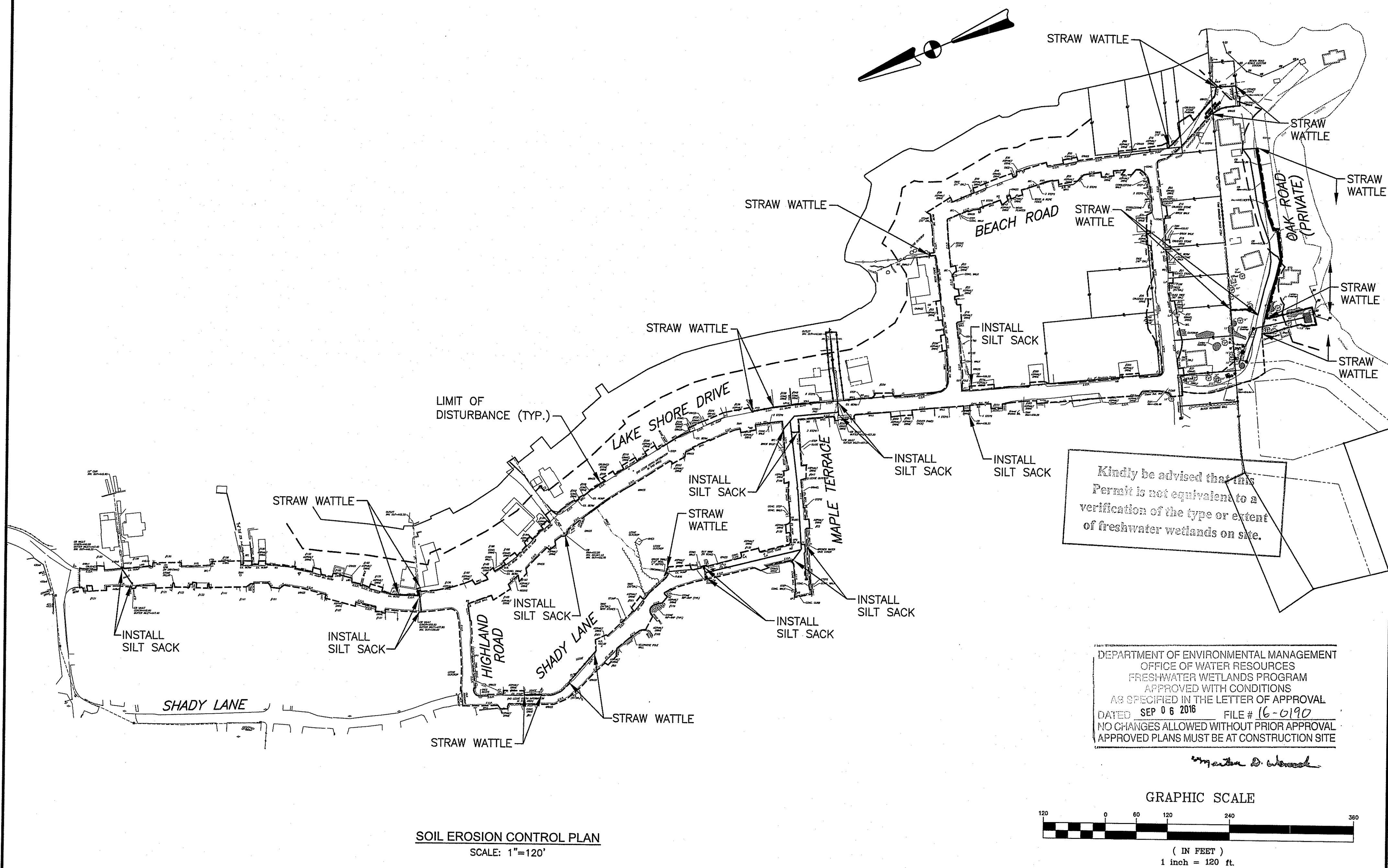
DATE: JUNE 2016
SCALE: 1"=30'

DWG. NAME: 2073-07-SITE PLANS.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	REVISED PER APPROVAL	SEP 06 2016
2	NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL	
3	APPROVED PLANS MUST BE AT CONSTRUCTION SITE	

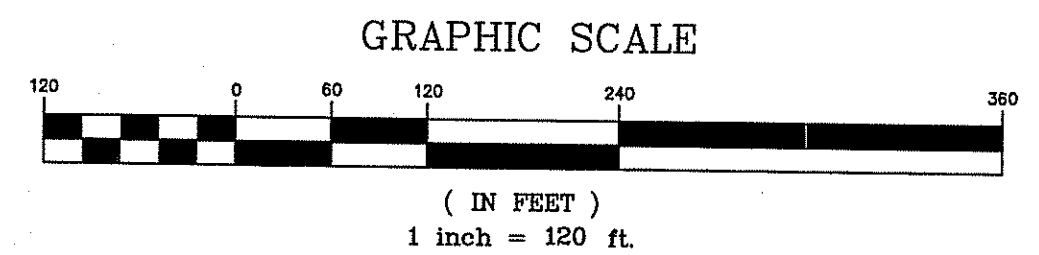
DRAWING NUMBER:
C3.3
SHEET: 9 OF 17



SOIL EROSION CONTROL PLAN
SCALE: 1"=120'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 06 2016 FILE # 16-0190
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Matthew D. Woodard



DUST CONTROL NOTES

ON AN AS-NEEDED BASIS OR AS DIRECTED BY THE TOWN OR ENGINEER, THE CONTRACTOR SHALL UTILIZE ONE OF THE FOLLOWING METHODS (AS RECOMMENDED BY THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", ISSUED 1989, REVISED 2014) TO CONTROL DUST:

- A. THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
- B. CALCIUM CHLORIDE SHOULD BE EITHER LOOSE DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH A SPREADER AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE.

THE METHODS SHOULD BE REPEATED AS NEEDED, AND SPECIAL ATTENTION MUST BE GIVEN TO THE ACCESS DRIVES.

INSPECTION/MAINTENANCE NOTES

1. PRIOR TO COMMENCING GRUBBING OPERATIONS, EARTHWORK OR RECLAMATION, EROSION CONTROLS SHALL BE PLACED TO PREVENT SEDIMENT FROM ENTERING THE PASCOAG RESERVOIR, WETLAND AREAS AND ADJUTING PROPERTIES.
2. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING PASCOAG RESERVOIR, WETLAND AREAS, ADJUTING PROPERTIES AND THE NEW CULVERTS.
3. ALL DISTURBED AREAS WHICH BECOME SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SLOPE PROTECTION - SUCH AS RIP-RAP.
4. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT / REPLACE DAILY DURING CONSTRUCTION, FOLLOWING RAINFALL AND WEEKLY DURING NON CONSTRUCTION PERIODS.
6. ADDITIONAL EROSION CONTROLS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE TOWN OR ENGINEER.
7. THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE R.I. STATE CONSERVATION COMMITTEE, REVISED 2014 MUST BE UTILIZED BY THE CONTRACTOR AS A GUIDE.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL AND FOR THE ENTIRE PROJECT DURATION, INCLUDING TEMPORARY SHUT-DOWN PERIODS, MUST MONITOR AND REPAIR, AS NEEDED, ALL SLOPES TO ENSURE A STABLE PRODUCT.
9. AFTER CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE INSPECTION REPORTS THAT WERE TAKEN DURING THE CONSTRUCTION ACTIVITIES. THE OWNER IS TO RETAIN THE INSPECTION REPORTS FOR 5 YEARS FROM THE DATE ON THE REPORT OR APPLICATION.

GENERAL PROJECT WIDE NOTES

1. EROSION CONTROLS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, MAINTAINED ON A REGULAR BASIS, AND SHALL BE PLACED TO PREVENT SEDIMENTATION ONTO ADJACENT PROPERTY AND WETLANDS OR INTO THE PASCOAG RESERVOIR.
2. THE CONTRACTOR MUST REPLACE AND/OR RESEED ANY VEGETATION THAT DOES NOT DEVELOP/SURVIVE WITHIN THE PERIOD OF ONE YEAR AND HE/SHE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. ALL EROSION CONTROLS OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.
4. TREES AND OTHER EXISTING VEGETATION SHALL BE RETAINED WHENEVER FEASIBLE; THE AREA BEYOND THE DRIPLINE SHALL BE FENCED OR ROPED OFF TO PROTECT TREES FROM CONSTRUCTION EQUIPMENT.
5. AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESODED, RESEEDD, OR OTHERWISE RESTORED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR IS RESPONSIBLE TO KEEP THE SITE CLEAN OF TRASH. RECOMMENDED DAILY PATROL OF THE CONSTRUCTION SHOULD BE CONDUCTED TO PICK-UP TRASH. THE OPERATOR SHALL REQUIRE THE CONTRACTOR TO HAVE PORTABLE SANITARY FACILITIES ON SITE. ROUTING CLEANING AND WASTE DISPOSAL OF THESE PORTABLE SANITARY FACILITIES IS REQUIRED.

EROSION CONTROL AND SOIL STABILIZATION PROGRAM

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE ROADWAY DRAINAGE SYSTEM, WETLAND AREAS, ADJACENT PROPERTY AND OUTSIDE THE LIMIT OF WORK.
2. ALL PERIMETER EROSION CONTROLS SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. PERIMETER EROSION CONTROLS CAN BE STRAW WATTLES. SILT FENCE CONFORMING TO R.I. STD. 9.2.0, CAN BE SUBSTITUTED FOR THE STRAW WATTLES.
3. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME.
4. ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE.
5. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE OWNER.
6. NO STOCKPILES ARE ALLOWED ON SITE.
7. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 3,000-4,000 LBS/ACRE.
8. ALL STRAW WATTLES SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED. ONCE THE AREAS HAVE AN ACCEPTABLE STAND OF GRASS OF APPROVED GROUND COVER, AND AFTER APPROVAL OF THE OWNER, THE CONTRACTOR SHALL REMOVE ALL STRAW WATTLES.
9. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE AS NEEDED.
10. ADDITIONAL STRAW WATTLES SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, OWNER OR TOWN REPRESENTATIVES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL AT NO ADDITIONAL COST.
12. CATCH BASINS SHALL BE PROTECTED USING SILT SACKS WHERE NOTED ON THE PLANS.
13. TEMPORARY DEWATERING BASINS SHALL BE UTILIZED AS REQUIRED. THE NUMBER AND SIZE OF DEWATERING BASINS REQUIRED WILL VARY DEPENDING ON SITE CONDITIONS.
14. THE CONTRACTOR SHALL REFERENCE THE "R.I. EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, REVISED 2014, AS A GUIDE.

- NOTES:**
1. CONTRACTOR SHALL INSTALL TEMPORARY MEASURES SUCH AS; FIBER MATTING, CRUSHED STONE, RIP RAP, HAY OR STRAW IN AREAS WHERE SLOPES OR STABILIZATION HAS FAILED.
 2. CONTRACTOR SHALL INSTALL SILT SACK OR APPROVED EQUAL IN ALL EXISTING CATCH BASINS WITHIN THE LIMIT OF WORK AND IN ADJACENT STREETS DOWNGRADIENT OF WORK. REMOVE AFTER CONSTRUCTION. REFER TO SITE PREPARATION PLANS FOR LOCATIONS OF SILT SACKS WITHIN EXISTING CATCH BASINS.
 3. STRAW WATTLES SHALL BE INSTALLED AROUND THE PERIMETER OF THE AREA TO BE DISTURBED BY CONSTRUCTION AS NOTED ON THE PLANS. ADDITIONAL APPLICATIONS OF THESE CONTROLS MEASURES MAY BE REQUIRED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL INSPECT THE SITE AT A MINIMUM OF ONCE PER WEEK OR WITHIN 24 HOURS AFTER A STORM EVENT.
 4. IF EROSION OR EROSION TENDENCIES ARE APPARENT ON THE SITE, THE CONTRACTOR IS RESPONSIBLE TO INSTALL ADDITIONAL CONSTRUCTION BMP'S SUCH AS SAND BAGS AS DIRECTED BY THE OWNER, LOCAL MUNICIPALITY, STATE AGENCIES OR ENGINEER DURING CONSTRUCTION.
 5. IF SEDIMENT OR DEBRIS IS TRACKED ONTO EXISTING ROADWAYS AREAS ADJACENT TO THE CONSTRUCTION AREA, THE CONTRACTOR IS REQUIRED TO SWEEP THE PAVEMENT ON A DAILY BASIS. THE AREA SHALL BE INSPECTED DAILY.
 6. THE CONTRACTOR IS RESPONSIBLE TO KEEP THE SITE CLEAN OF TRASH. RECOMMENDED DAILY PATROL OF THE CONSTRUCTION SHOULD BE CONDUCTED TO PICK-UP TRASH. THE OPERATOR SHALL REQUIRE THE CONTRACTOR TO HAVE PORTABLE SANITARY FACILITIES ON SITE. ROUTING CLEANING AND WASTE DISPOSAL OF THESE PORTABLE SANITARY FACILITIES IS REQUIRED.
 7. THE CONTRACTOR MUST REFERENCE AND FOLLOW THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP). A COPY OF THE SWPPP SHOULD BE KEPT ON-SITE AT ALL TIMES DURING CONSTRUCTION.

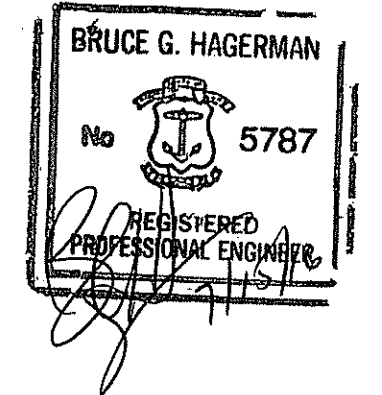
- RECEIVING WATER DATA:**
- WATERSHED BODY NAME - RI 001002L-03 ECHO LAKE (PASCOAG RESERVOIR) (SOURCE: R.I.D.E.M.)
 - GROUNDWATER CLASSIFICATION - GA
- PROJECT DATA:**
- LIMIT OF DISTURBANCE AREA = 5.26± ACRES
 - THE SITE IS NOT LOCATED WITHIN OR ADJACENT TO A RIDEM NATURAL HERITAGE AREA. (SOURCE: RIDEM)
 - THE SITE IS NOT LOCATED WITHIN A WELLHEAD PROTECTION AREA. (SOURCE: R.I.D.E.M.)
- ADDITIONAL CONTROLS:**
1. ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
 2. THE CONTRACTOR IS REQUIRED TO NOTIFY LOCAL AUTHORITIES AND THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF WASTE MANAGEMENT, OF ANY HAZARDOUS MATERIAL SPILL.
 3. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE SITE IN AN ORDERLY AND CLEAN STATE. ALL CONSTRUCTION WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS PRIOR TO REMOVAL AND CONTACT WITH PRECIPITATION SHALL BE KEPT TO A MINIMUM.
 4. GENERAL MAINTENANCE PROCEDURES ARE OUTLINED IN THE ACCOMPANYING SITE PLANS. IN ADDITION, THE OPERATOR AND CONTRACTOR ARE REQUIRED TO INSPECT ALL EROSION CONTROLS ON THE SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER A RAIN EVENT, WHICH GENERATES 0.25 INCHES OF RAIN IN A TWENTY-FOUR (24) HOUR PERIOD AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF.
 5. CONCRETE WASHOUT SHALL BE PERFORMED USING ONE OF THE METHODS LISTED IN SECTION 3 OF THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. THE WASHOUT AREAS ARE DESIGNATED ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
 6. VEHICLE AND EQUIPMENT WASHING ON-SITE DURING CONSTRUCTION IS NOT ALLOWED.
 7. A SPILL RESPONSE KIT SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.

- SITE CONSTRUCTION SEQUENCE AND SCHEDULE:**
1. SITE PREPARATION CONSISTING OF INSTALLING EROSION CONTROLS, SAWCUTTING AT LIMITS OF WORK, SAWCUTTING ALONG EXISTING WALLS, AND TRAFFIC CONTROL INCLUDING INSTALLATION OF WARNING SIGNS.
 2. RECLAIM THE EXISTING BITUMINOUS PAVEMENT INCLUDING APPLYING CALCIUM CHLORIDE SOLUTION AND RE-MIXING RECLAIMED BASE TO ENSURE BLENDING OF RECYCLED BASE MATERIAL. IF THE CONTRACTOR ELECTS TO PERFORM THE DRAINAGE WORK PRIOR TO RECLAMATION, THEN A 2" TEMPORARY BITUMINOUS PAVEMENT PATCH SHALL BE INSTALLED AS SHOWN ON THE PLANS IMMEDIATELY FOLLOWING PIPE INSTALLATION.
 3. REMOVE LEDGE, ROCK AND/OR BOULDERS TO A DEPTH OF 15" BELOW THE EXISTING PAVEMENT.
 4. CULVERT REPLACEMENTS CONSISTING OF REMOVING AND DISPOSING THE EXISTING PIPE CULVERTS, DEWATERING (IF NECESSARY), INSTALLATION OF PIPE BEDDING, INSTALLATION OF NEW PIPE CULVERTS, BACKFILLING, INSTALLATION OF NEW FLARED END SECTIONS, INSTALLATION OF RIP-RAP OUTLET PROTECTION AND INSTALLATION OF GRASS SWALES.
 5. TRIM AND FINE GRADE RECYCLED ROADWAY BASE INCLUDING REGRADEING AREAS SHOWN ON THE PLANS FOR PROPER DRAINAGE AND FOR FILL AREAS.
 6. COMPACT THE RECLAIMED BASE MATERIAL TO THE SPECIFIED UNIFORM DENSITY WITH A VIBRATORY ROLLER(S). INSTALL FINAL APPLICATION OF CALCIUM CHLORIDE SOLUTION ON THE FINISHED RECLAIMED BASE COURSE (AFTER FINAL GRADING AND COMPACTION).
 7. FULL DEPTH SAWCUT OF ALL BITUMINOUS DRIVEWAYS AND REMOVAL AND DISPOSAL OF BITUMINOUS PAVEMENT.
 8. INSTALLATION OF NEW BITUMINOUS CONCRETE PAVEMENT BASE COURSE, INCLUDING DRIVEWAYS.
 9. LOAM AND SEED ALL DISTURBED (BARE SOIL) AREAS WITHIN THE LIMIT OF DISTURBANCE.
 10. CLEAN AND SWEEP BITUMINOUS CONCRETE PAVEMENT BASE COURSE IMMEDIATELY PRIOR TO FINAL PAVING.
 11. INSTALLATION OF NEW BITUMINOUS CONCRETE PAVEMENT SURFACE COURSE INCLUDING DRIVEWAYS AND PAVED WATERWAYS. AN ASPHALT EMULSION TACK COAT SHALL BE APPLIED BETWEEN THE PAVEMENT COURSES. BITUMINOUS BERM SHALL BE MONOLITHICALLY PLACED AT LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE TOWN OR ENGINEER. PAVED WATERWAYS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. ALL DRIVEWAY BITUMINOUS PAVEMENT SHALL BE INSTALLED MONOLITHICALLY WITH ROADWAY INSTALLATION.
 12. INSTALLATION OF FINAL PAVEMENT MARKINGS.
 13. ONCE SEEDED AREAS ARE STABILIZED, AND AFTER APPROVAL OF THE OWNER, REMOVE ALL EROSION CONTROLS.
 14. ESTIMATED DURATION OF SOIL EXPOSURE SEPTEMBER 2016 TO JUNE 2017.

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Environmental Management
JUL 15 2016
Office of Water Resources

PROJECT TITLE:
LAKE SHORE DRIVE
NEIGHBORHOOD
RECLAMATION &
RESURFACING PROJECT
BURRILLVILLE, R.I.

PREPARED FOR:
TOWN OF BURRILLVILLE
DEPARTMENT OF PUBLIC WORKS
65 UNION STREET
HARRISVILLE, R.I. 02830

DRAWING TITLE:
SOIL EROSION AND
SEDIMENTATION PLAN

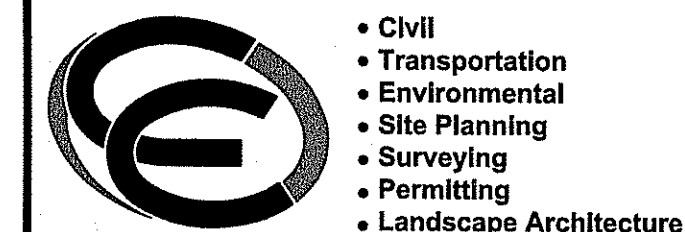
DATE: JUNE 2016
SCALE: AS NOTED

DWG. NAME: 2073-08-SOIL.dwg

REVISIONS

NUMBER	REMARKS	DATE

DRAWING NUMBER
C4.1
SHEET: 10 OF 17



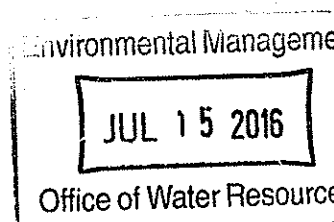
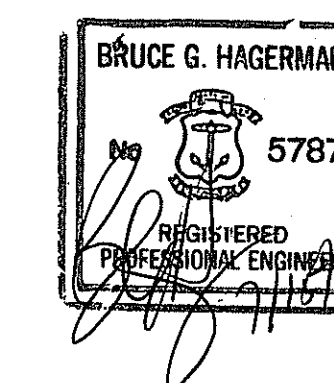
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PROJECT TITLE:

LAKE SHORE DRIVE NEIGHBORHOOD RECLAMATION & RESURFACING PROJECT

BURRILLVILLE, R.I.

PREPARED FOR:

TOWN OF BURRILLVILLE
DEPARTMENT OF PUBLIC WORKS

65 UNION STREET
HARRISVILLE, R.I. 02830

DRAWING TITLE:
MISCELLANEOUS
DETAILS PLAN NO. 1

DATE: JUNE 2016 SCALE: AS NOTED

DWG. NAME: 2073-11-DET01.dwg

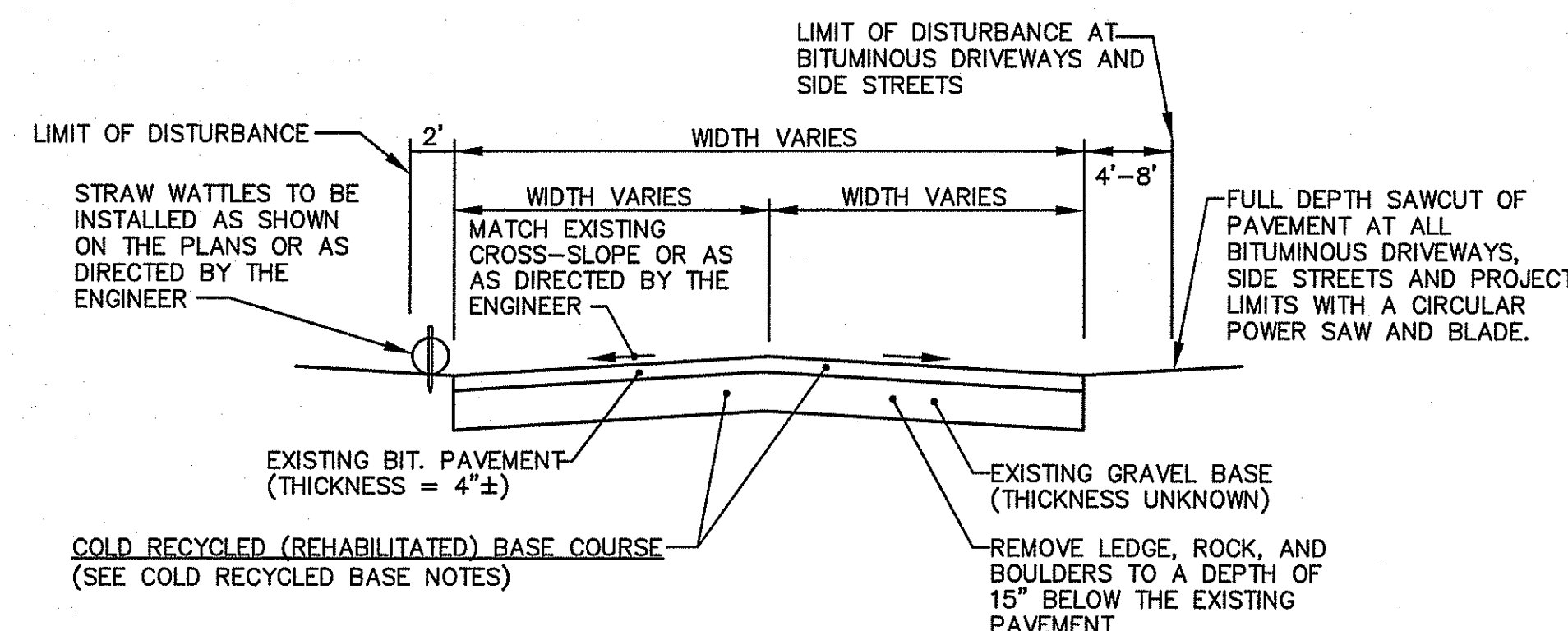
REVISIONS

NUMBER	REMARKS	DATE

DRAWING NUMBER

C5.1

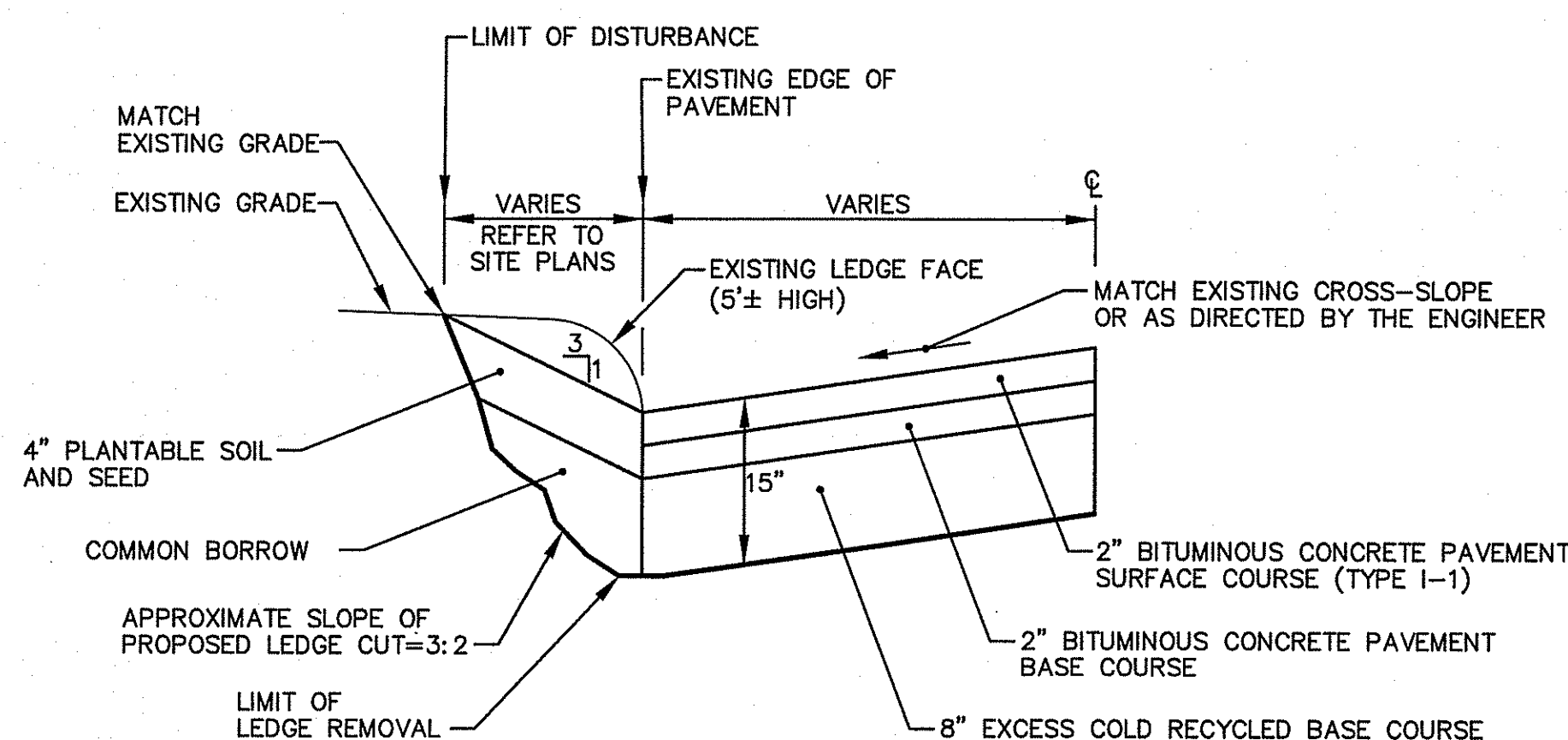
SHEET: 11 OF 17



COLD RECYCLED BASE NOTES:

- EXISTING PAVEMENT STRUCTURE TO BE MILLED AND MIXED WITH THE EXISTING GRAVEL BASE TO A DEPTH OF 8" OR AS DIRECTED BY THE ENGINEER.
- THE NEW RECYCLED BASE COURSE SHALL CONFORM TO THE GRADATION IN SECTION 02406 OF THE SPECIFICATIONS.
- THE NEW RECYCLED BASE COURSE SHALL BE RESHAPED, ROLLED, COMPACTED, AND GRADED TO MATCH THE PRE-CONSTRUCTION CROSS SECTION OR AS DIRECTED BY THE ENGINEER. CALCIUM CHLORIDE SHALL BE APPLIED PER SECTION 02406 OF THE SPECIFICATIONS. THE COMPACTION SHALL BE A UNIFORM DENSITY OF NOT LESS THAN 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180, METHOD D.
- ALL LEDGE REMOVED IN THE PROJECT SHALL BE REPLACED WITH GRAVEL BORROW SUBBASE OR EXCESS RECYCLED BASE MATERIAL AS APPROVED BY THE ENGINEER.
- ALL UNSUITABLE MATERIAL ENCOUNTERED IN THE EXISTING GRAVEL BASE SHALL BE REMOVED AND THE VOID REPLACED WITH GRAVEL BORROW SUBBASE OR EXCESS RECYCLED BASE MATERIAL AS APPROVED BY THE ENGINEER.
- RECYCLED BASE MATERIAL TO BE REMOVED AND GRADED AS NECESSARY SO THAT THE LEVEL OF THE NEW PAVEMENT MATCHES THE PRE-CONSTRUCTION LEVEL ADJACENT TO EXISTING DRIVEWAYS, SIDEWALKS, STEPS, SIDE STREETS AND AT THE PROJECT LIMITS.
- ALL FRAMES AND GRATES AND FRAMES AND COVERS WITHIN THE PROJECT LIMITS/LIMITS OF DISTURBANCE ARE TO REMAIN IN PLACE DURING MILLING. THE CONTRACTOR MUST AVOID THESE STRUCTURES AND REMOVE THE SURROUNDING PAVEMENT BY OTHER METHODS.
- ALL CONCRETE DRIVEWAYS, BRICK DRIVEWAYS AND CONCRETE BLOCK DRIVEWAYS ARE TO REMAIN. THE RECYCLING OPERATION MUST AVOID CONTACT WITH ALL CONCRETE AND BRICK DRIVEWAYS. THE NEW BASE COURSE AND PAVEMENT LEVELS MUST BE ADJUSTED TO MATCH FINISH GRADES WITH ALL CONCRETE AND BRICK DRIVEWAYS.
- THE CONTRACTOR SHALL BE AWARE THAT EXISTING DRY AND WET STONE WALLS EXIST ADJACENT TO THE EDGE OF PAVEMENT WITHIN THE PROJECT LIMITS. CARE SHALL BE UTILIZED DURING THE CONSTRUCTION OPERATIONS TO PREVENT ANY DAMAGE TO THE WALLS. ANY WALLS DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR PER THE DETAIL AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE AWARE THAT EXISTING FENCES, ROCKS, BOULDERS, STEPS, WALKS, ETC. EXIST ADJACENT TO THE EDGE OF PAVEMENT WITHIN THE PROJECT LIMITS. CARE SHALL BE UTILIZED DURING CONSTRUCTION OPERATIONS TO PREVENT DAMAGE. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ANY MAILBOXES THAT OVERHANG THE EDGE OF PAVEMENT AND WILL BE DAMAGED DURING THE RECLAIMING PROCESS SHALL BE REMOVED AND RESET.
- IF NEW GRAVEL BASE MATERIAL IS NECESSARY, IT SHALL MEET THE R.I.D.O.T. SPECIFICATIONS FOR GRAVEL BORROW SUBBASE.
- ALL SURPLUS COLD RECYCLED BASE MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING THE MATERIAL TO A LOCATION IN THE TOWN OF BURRILLVILLE AS DETERMINED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
- AT THE END OF EACH DAY OF WORK, THE RECLAIMED BASE MATERIAL SHALL BE GRADED WITH A MOTORIZED GRADER AND COMPACTED WITH A ROLLER IN ORDER TO MAINTAIN THE ROAD PASSABLE AND SAFE FOR EXISTING TRAFFIC.
- PRIOR TO RECYCLING THE PAVEMENT, THE CONTRACTOR SHALL DEPRESS ALL WATER GATE VALVE BOXES.
- ALL EXISTING GRANITE AND CONCRETE CURBING ON SHADY LANE, MAPLE TERRACE AND BEACH ROAD IS TO REMAIN. THE RECYCLING OPERATIONS MUST AVOID CONTACT WITH CURBING. ANY DAMAGE TO CURBING OR ADJACENT CONCRETE SIDEWALK MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE NEW BASE COURSE AND PAVEMENT LEVELS MUST BE ADJUSTED TO MAINTAIN A 6" REVEAL AT THE CURB FACE AND MATCH FINISH GRADES AT ALL DRIVEWAY LOCATIONS.
- ALL FRAMES AND COVERS (SEWER AND DRAINAGE) FRAMES AND GRATES, WATER GATE BOXES THROUGHOUT THE PROJECT LIMITS ARE TO BE ADJUSTED TO GRADE PRIOR TO FINAL PAVING.

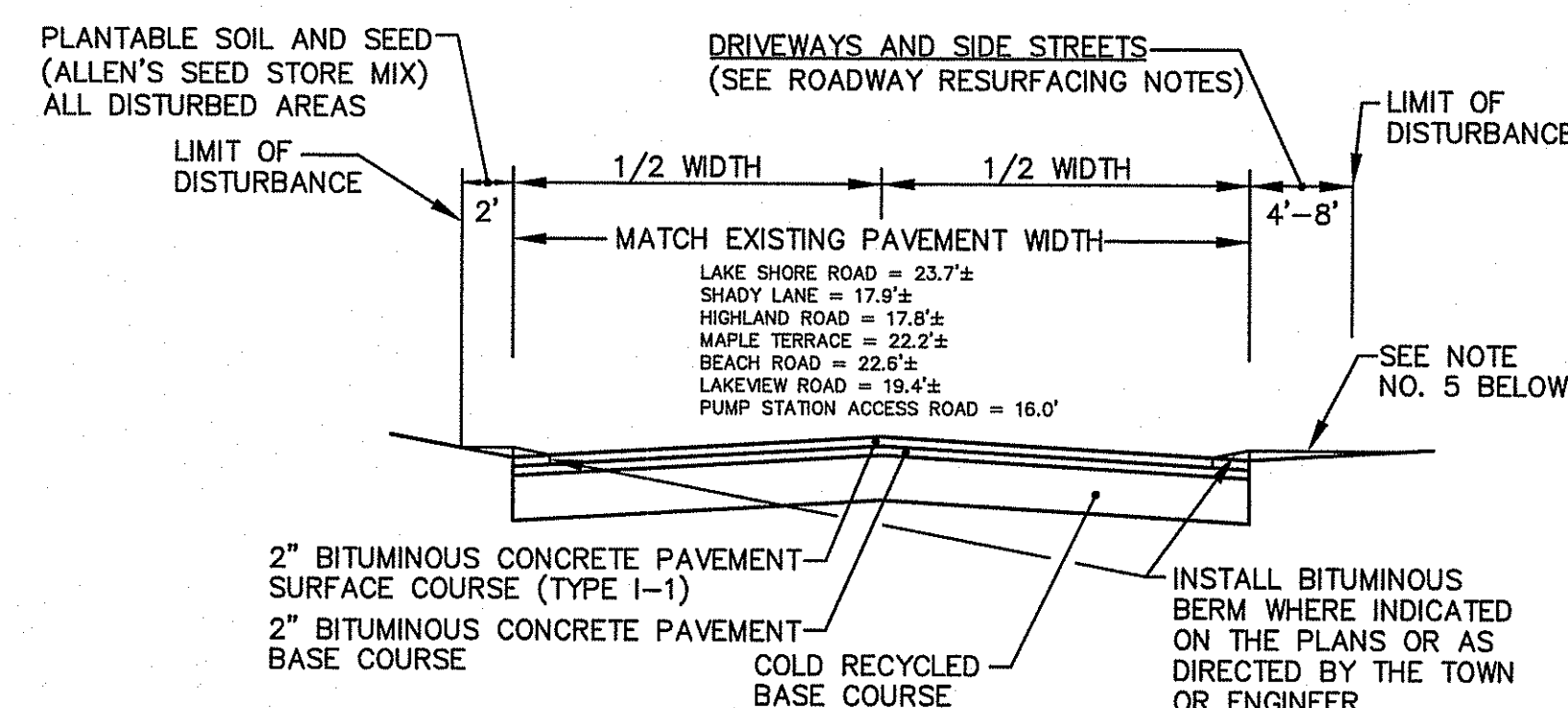
COLD RECYCLED BASE COURSE NOT TO SCALE



ROADWAY LEDGE CUT NOTES:

- ROADWAY LEDGE CUT SHALL OCCUR FROM APPROXIMATELY STA. 2+55 TO STA. 3+12, AS SHOWN ON THE PLANS.
- REMOVE LEDGE, ROCK AND BOULDERS TO A DEPTH OF 15" BELOW PROPOSED PAVEMENT FINISHED GRADE.

LAKEVIEW ROAD ROADWAY LEDGE CUT DETAIL NOT TO SCALE



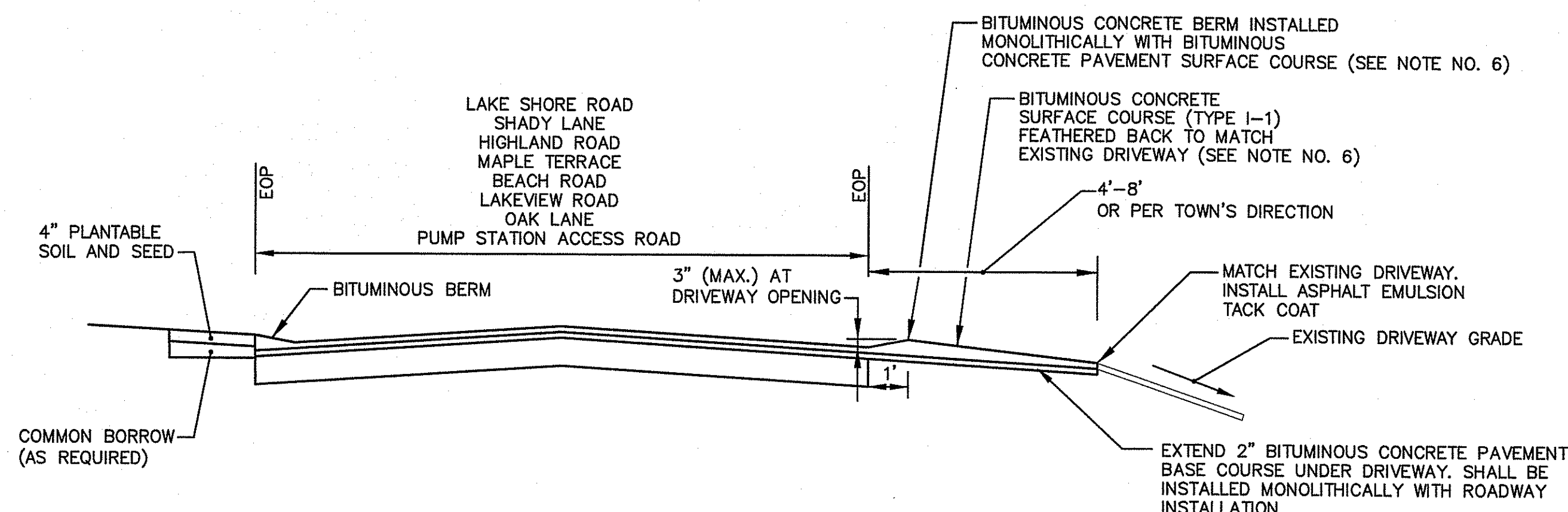
ROADWAY RESURFACING NOTES:

- ALL GRAVEL AND CRUSHED STONE DRIVEWAYS SHALL BE PAVED WITH BITUMINOUS PAVEMENT PER THE ABOVE LIMITS.
- EXTEND NEW PAVEMENT AND COLD RECYCLED BASE TO MATCH AT ALL BITUMINOUS DRIVEWAYS AND SIDE STREETS.
- FULL DEPTH SAWCUT AND MATCH PAVEMENT AT ALL BITUMINOUS DRIVEWAYS, SIDE STREETS AND AT THE PROJECT LIMITS. FULL DEPTH SAWCUT SHALL BE MADE WITH A CIRCULAR POWER SAW AND BLADE.
- APPLY AN ASPHALT EMULSION TACK COAT IN BETWEEN PAVEMENT COURSES AND AT ALL BITUMINOUS EDGES.
- INSTALL BITUMINOUS BERM AT ALL BITUMINOUS DRIVEWAYS WHERE AN EXISTING HUMP IS PRESENT OR AS DIRECTED BY THE ENGINEER TO DIVERT RUNOFF AWAY FROM PRIVATE PROPERTY. REFER TO THE DETAIL BELOW AND DETAILS ON MISCELLANEOUS DETAILS PLAN NO. 6. THE BITUMINOUS CONCRETE BERM AND DRIVEWAY AREA SHALL BE HAND ROLLED.
- ALL PAVING OPERATIONS SHALL HAVE A HIGHWAY LAP, WITH THE ENDS STAGGERED AT LEAST TEN (10) FEET APART.
- GRADE GRASSED SHOULDERS TO DRAIN.
- ALL BITUMINOUS PAVEMENT MIXTURES SHALL BE FROM THE R.I.D.O.T. APPROVED LIST.
- ALL BITUMINOUS PAVEMENT MATERIALS SHALL BE OBTAINED FROM A SOURCE APPROVED BY R.I.D.O.T.

ROADWAY RESURFACING

NOT TO SCALE

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



SEQUENCE OF CONSTRUCTION FOR BITUMINOUS DRIVEWAY BERM:

- FULL DEPTH SAWCUT OF BITUMINOUS DRIVEWAY SHALL BE MADE WITH A CIRCULAR POWER SAW AND BLADE. REMOVE AND DISPOSE EXISTING PAVEMENT.
- INSTALL ASPHALT EMULSION TACK COAT ON ALL BITUMINOUS EDGES.
- DUMP ASPHALT FROM DELIVERY TRUCK INTO DRIVEWAY AND LEVEL THE ASPHALT. THIS PROCESS SHALL BE COMPLETED BEFORE ARRIVAL OF PAVER.
- PAVER SHALL LAY A CONTINUOUS BITUMINOUS CONCRETE BERM ACROSS FRONT OF DRIVEWAY, MONOLITHICALLY WITH SURFACE COURSE.
- LABORERS SHALL FEATHER BACK TOP PORTION OF THE BITUMINOUS CONCRETE BERM INTO DRIVEWAY AND MATCH THE EXISTING DRIVEWAY AT THE SAWCUT.
- THE BITUMINOUS CONCRETE BERM AND DRIVEWAY AREA SHALL BE HAND ROLLED. A VIBRATING ROLLER SHALL NOT BE USED FOR COMPACTING. HAND ROLLER SHALL BE APPROVED BY D.P.W. DIRECTOR OR ENGINEER PRIOR TO USE.
- IT IS RECOMMENDED THAT A THREE (3) MAN CREW STAY AHEAD OF PAVING CREW IN ORDER TO DUMP ASPHALT AND SPREAD ASPHALT IN DRIVEWAYS BEFORE THE PAVING CREW REACHES THE AREA.

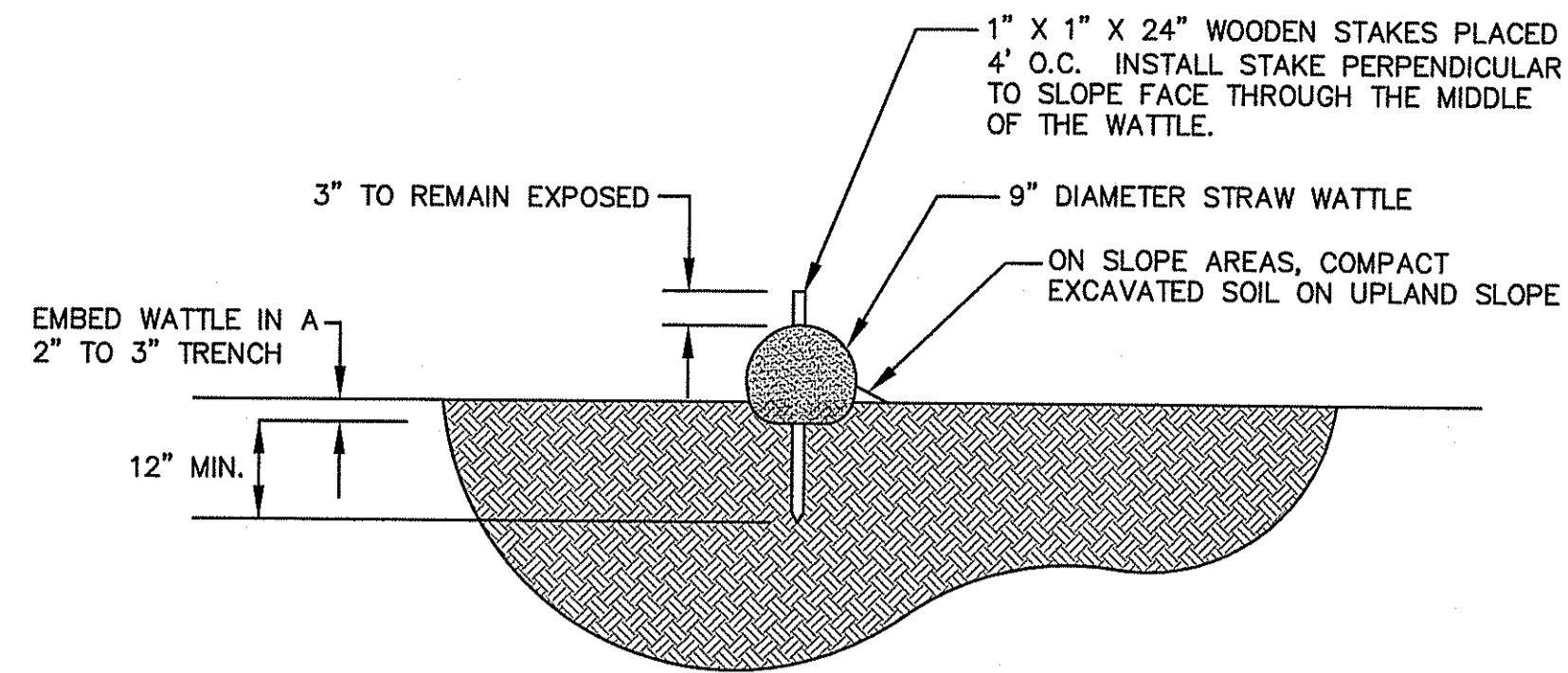
DETAIL OF BITUMINOUS DRIVEWAY BERM NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 06 2016 FILE # 16-0190
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Master D. Woodcock

GENERAL WATER NOTES:

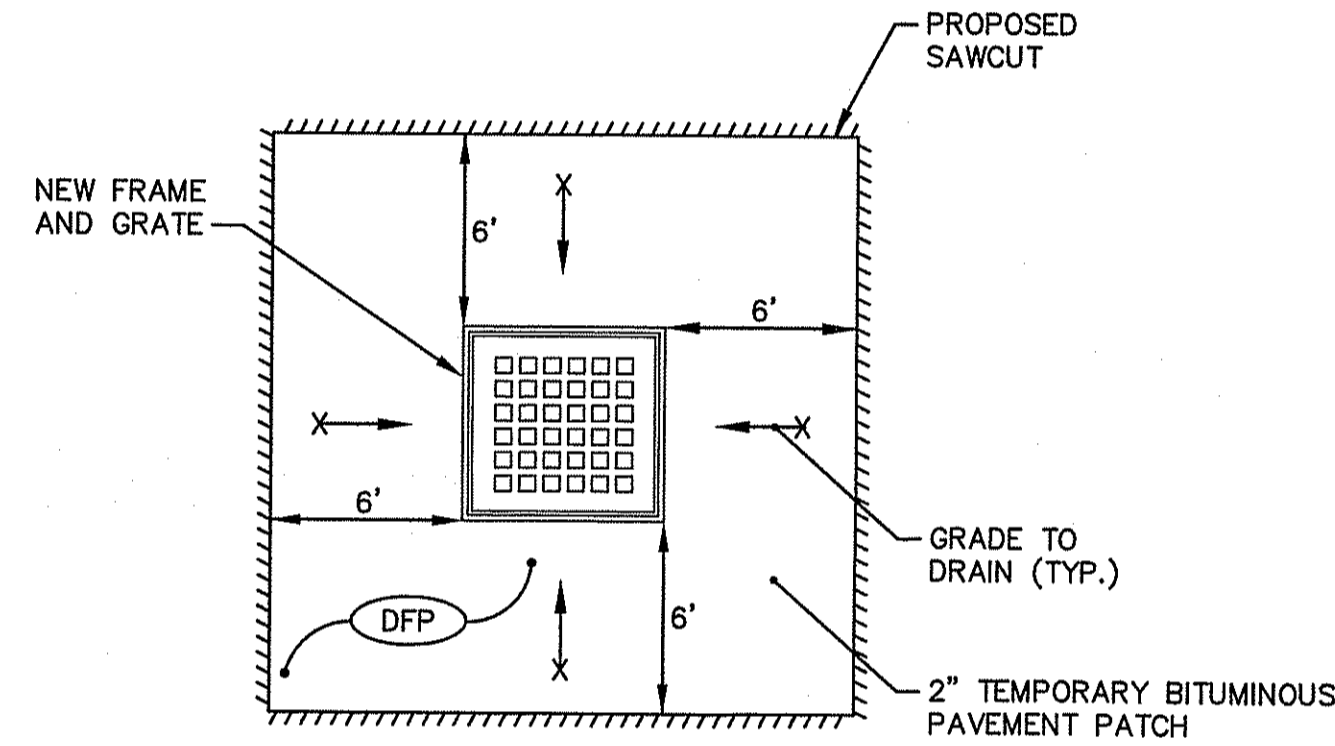
1. ALL INSTALLATION, JOINTS, CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE CURRENT RULES AND REGULATIONS OF THE PASCOAG UTILITY DISTRICT, AWWA STANDARDS AND GOVERNMENTAL REQUIREMENTS.
2. ALL FITTINGS SHALL MEET THE REQUIREMENTS OF ANSI/AWWA C153/A21.53.
3. WATER SERVICE PIPE SHALL BE COPPER OR POLYETHYLENE PIPE AND SHALL MEET THE REQUIREMENTS OF THE PASCOAG UTILITY DISTRICT AND ANSI/AWWA C151/A21.51.
4. CONSTRUCTION SHALL INCLUDE ALL PIPE, JOINTS, BENDS, TEES, FITTINGS, COUPLINGS, SERVICE CONNECTIONS AND ALL MISCELLANEOUS ITEMS REQUIRED TO CONNECT THE PROPOSED HOUSE SERVICES TO THE EXISTING SERVICE.
5. PRESSURE AND LEAKAGE TESTS AND DISINFECTING PIPES SHALL BE PERFORMED BY THE CONTRACTOR IN CONFORMANCE TO PASCOAG UTILITY DISTRICT REQUIREMENTS, AMERICAN WATER WORKS ASSOCIATION (AWWA) RECOMMENDATIONS, AND GOVERNMENTAL AGENCIES HAVING JURISDICTION. THE CONTRACTOR MUST FOLLOW THE REQUIREMENTS SET FORTH IN THE RULES AND REGULATIONS OF THE PASCOAG UTILITY DISTRICT.
6. ALL FITTINGS, PIPE, JOINTS, ETC. SHALL BE DESIGNED FOR 1.5 TIMES WORKING PRESSURE BUT NOT LESS THAN 150 PSI.
7. WATER PIPE SHALL BE LOCATED AT A DEPTH OF COVER EQUAL TO 5'-0". A MINIMUM OF 10- FEET HORIZONTAL OR 18- INCH VERTICAL SEPARATION SHALL BE MAINTAINED IN THE PLACEMENT OF WATER MAINS, SERVICES, OR APPURTENANCES WITHIN THE VICINITY OF SEWER FACILITIES, OR VICE VERSA. WHERE THE ABOVE SEPARATION DISTANCES CANNOT BE ACHIEVED, THE SANITARY SEWER/STORM DRAIN PIPE SHALL BE ENCASED WITHIN A DUCTILE IRON CARRIER PIPE FOR A DISTANCE EQUAL TO 10- FEET ON EITHER SIDE OF THE AREA OF CONCERN. CONCRETE ENCASEMENT IS NOT ALLOWED. UTILITY SEPARATION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE PASCOAG UTILITY DISTRICT.
8. ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS, SUCH AS PIPE, COUPLINGS, FITTINGS, CASTINGS, ETC. SHALL BE SUBMITTED TO THE PASCOAG UTILITY DISTRICT AND ENGINEER FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. THIS SUBMISSION SHALL INCLUDE MANUFACTURER'S LITERATURE, SHOP DRAWINGS, PROPOSED CONSTRUCTION METHODS, ETC.
9. WATER LINE TRENCH TO BE AWWA TYPE 5. COMPACTION MUST BE ACCOMPLISHED IN 6" LIFTS. A METALIZED DETECTABLE IDENTIFICATION TAPE 2" IN WIDTH, BLUE IN COLOR AND PRINTED WITH "CAUTION WATERLINE BURIED BELOW" SHALL BE UTILIZED OVER ALL SERVICE PIPE. TAPE SHALL BE SET AT APPROXIMATELY 1'-0" BELOW FINISHED GRADE.
10. THE HOUSE CONNECTION LOCATION SHALL BE VERIFIED WITH THE HOMEOWNER PRIOR TO BEGINNING WORK.
11. AS-BUILT DRAWINGS MUST BE FURNISHED BY THE CONTRACTOR TO, AND APPROVED BY, PASCOAG UTILITY DISTRICT PRIOR TO WATER SERVICE ACTIVATION.
12. THE CONTRACTOR MUST INSTALL TEMPORARY BLOW-OFFS AT ALL DEAD-ENDS INSIDE THE PROPOSED BUILDINGS. THE BLOW-OFFS ARE TO BE USED FOR FLUSHING AND SAMPLES.
13. WATER UTILIZED FOR DISINFECTION, PRESSURE TESTING AND FLUSHING WHICH IS OBTAINED DIRECTLY FROM THE PASCOAG UTILITY DISTRICT SYSTEM, MUST FLOW THROUGH AN ISOLATED CONNECTION TO THE PASCOAG UTILITY DISTRICT SYSTEM VIA AN APPROVED METER, TESTABLE BACK FLOW PREVENTION DEVICE AND JUMPER LINE.
14. THE CONTRACTOR SHALL FURNISH AND INSTALL SUITABLE TEMPORARY TESTING PLUGS, CAPS, PUMPS, PIPE CONNECTIONS, AND OTHER APPURTENANCES, AS NECESSARY, TO OBTAIN SAMPLES.
15. ANY CONFLICTS ENCOUNTERED DURING CONSTRUCTION MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING WORK.



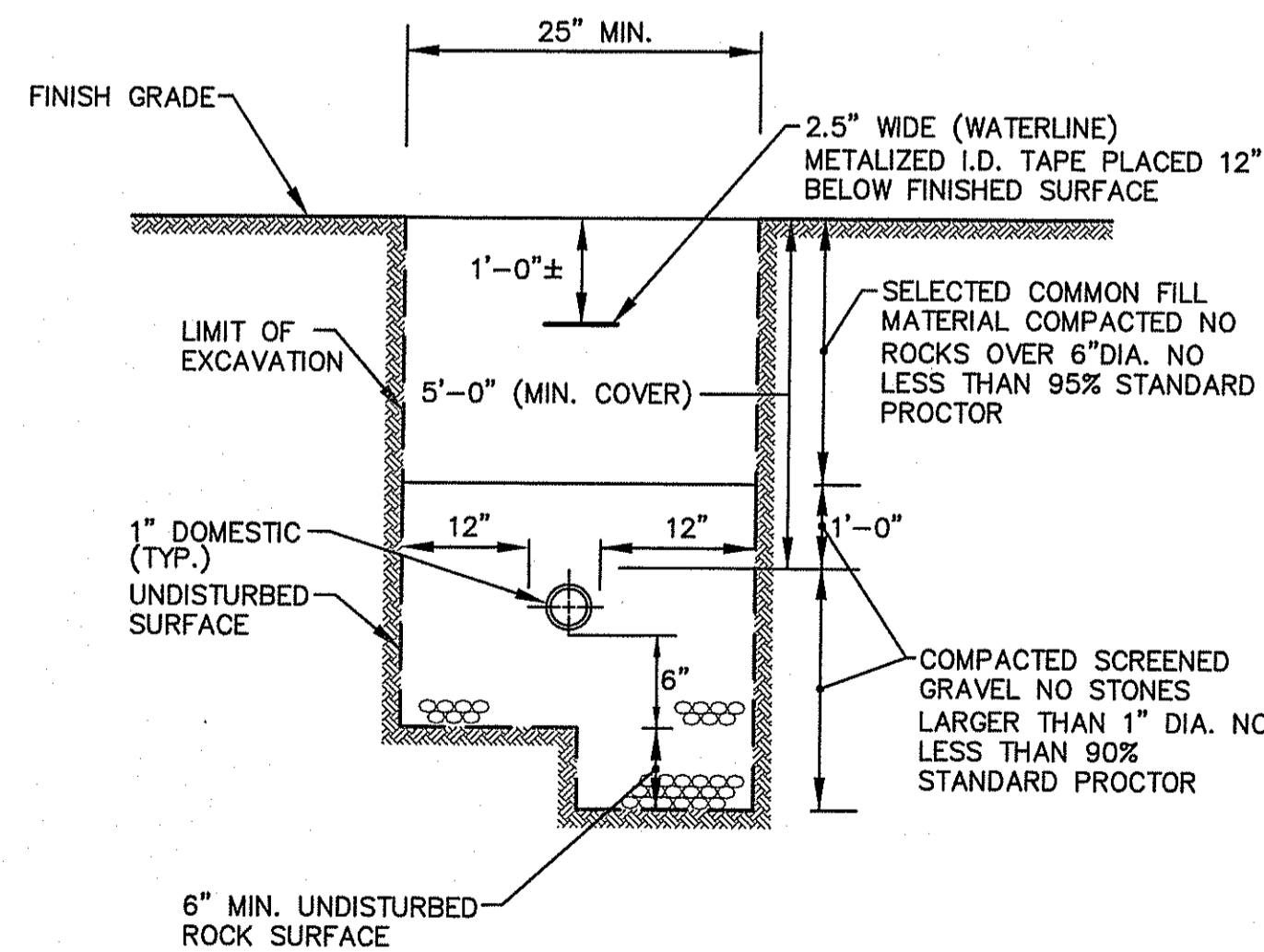
NOTES:

1. INSTALLATION OF THE STRAW WATTLE SHALL CONFORM TO ALL THE MANUFACTURER'S RECOMMENDATIONS. AN "OR EQUAL" PRODUCT MUST BE APPROVED BY THE ENGINEER OR OWNER PRIOR TO CONSTRUCTION.
2. STRAW WATTLE SHALL BE USED IN FRONT OF ALL EXISTING DRAINAGE STRUCTURES/Vaults FOR INLET PROTECTION WITHIN THE LIMIT OF WORK UNTIL COMPLETION OF THE PROJECT.

SW
STRAW WATTLE DETAIL
NOT TO SCALE



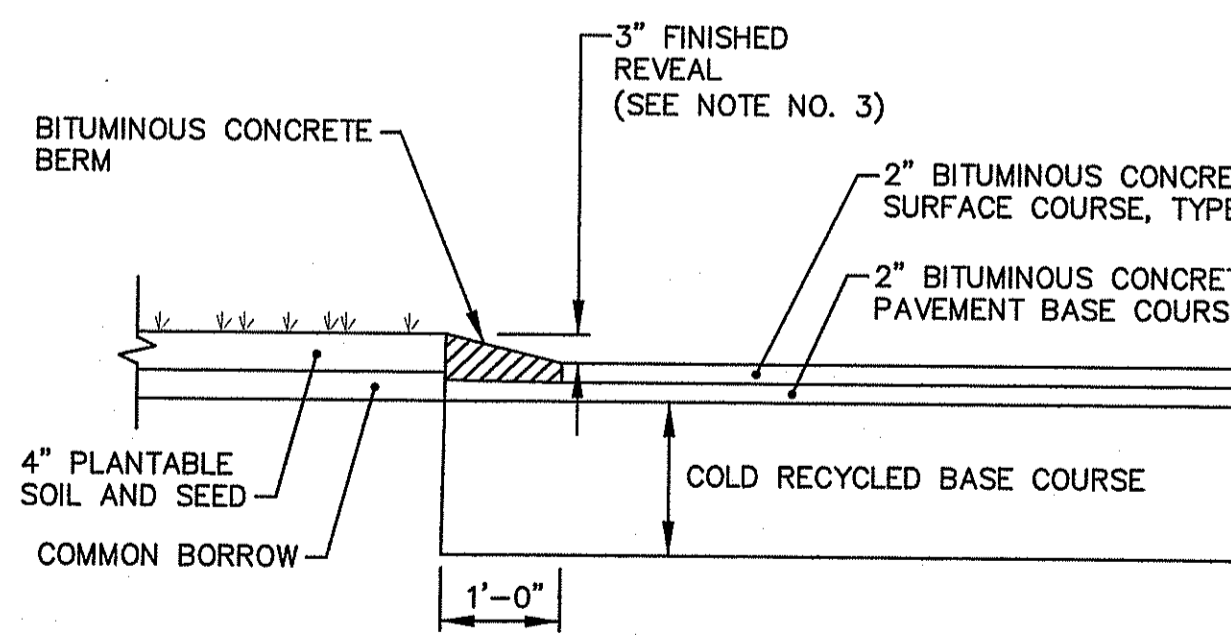
TYPICAL CATCH BASIN INSTALLATION DETAIL
NOT TO SCALE



NOTE:

1. ROADWAY RESTORATION SHALL BE GRAVEL BORROW MATERIAL.
2. SERVICE LINE FROM CURB BOX TO HOUSES SHALL BE INSPECTED, TESTED AND APPROVED BY LOCAL PLUMBING INSPECTOR OR THE PASCOAG UTILITY DISTRICT.

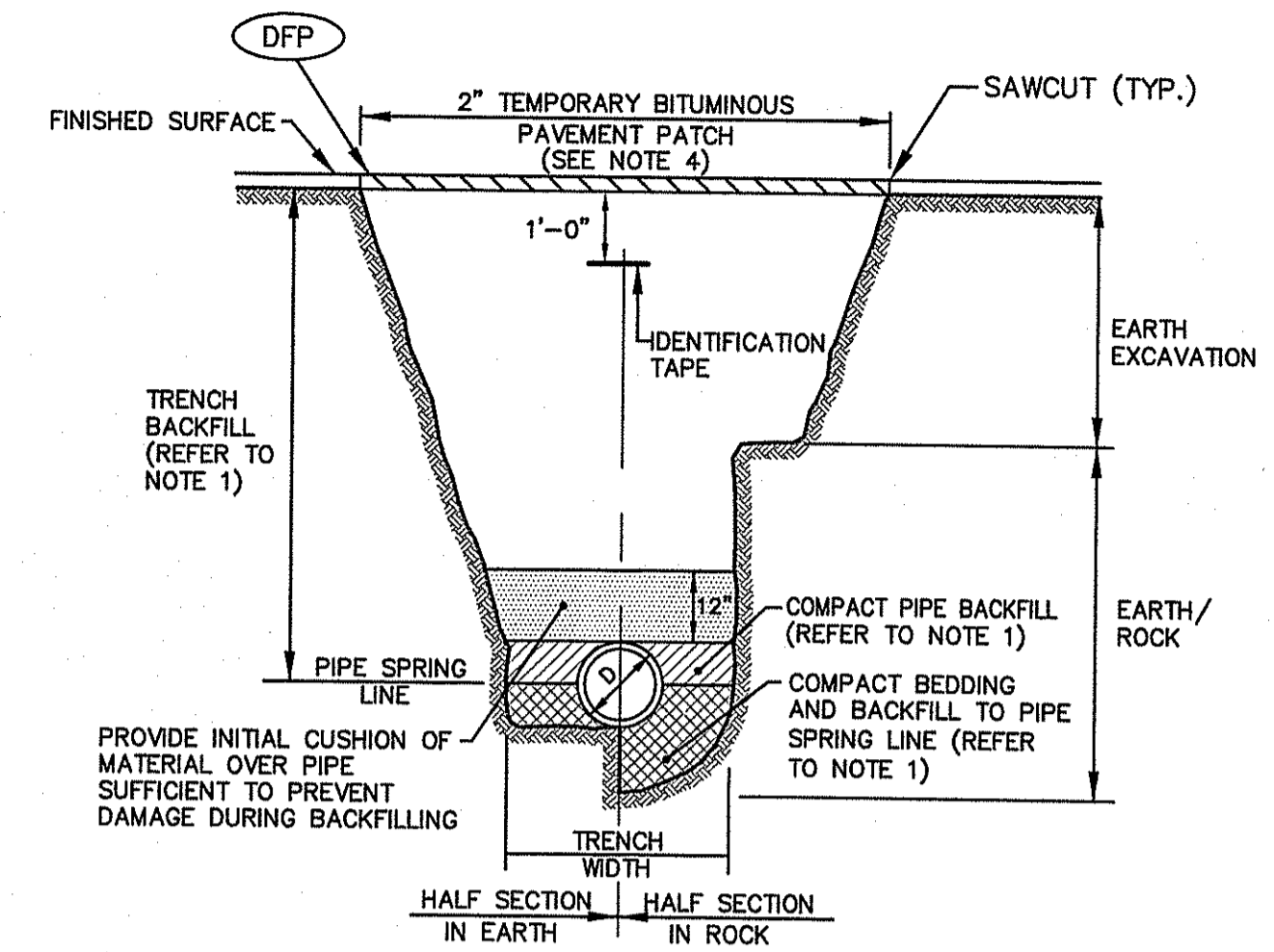
WATER TRENCH DETAIL
NOT TO SCALE



NOTES:

1. BITUMINOUS CONCRETE BERM SHALL BE MONOLITHICALLY PLACED WITH THE INSTALLATION OF THE SURFACE COURSE.
2. THE BITUMINOUS CONCRETE BERM SHALL BE HAND ROLLED.
3. IF APPROVED IN WRITING BY THE TOWN PRIOR TO INSTALLATION, A HAND VIBRATING COMPACTOR CAN BE USED WHERE BERM IS INSTALLED OTHER THAN DRIVEWAY BERM. THE FINAL FINISHED REVEAL SHALL BE 3" MINIMUM.

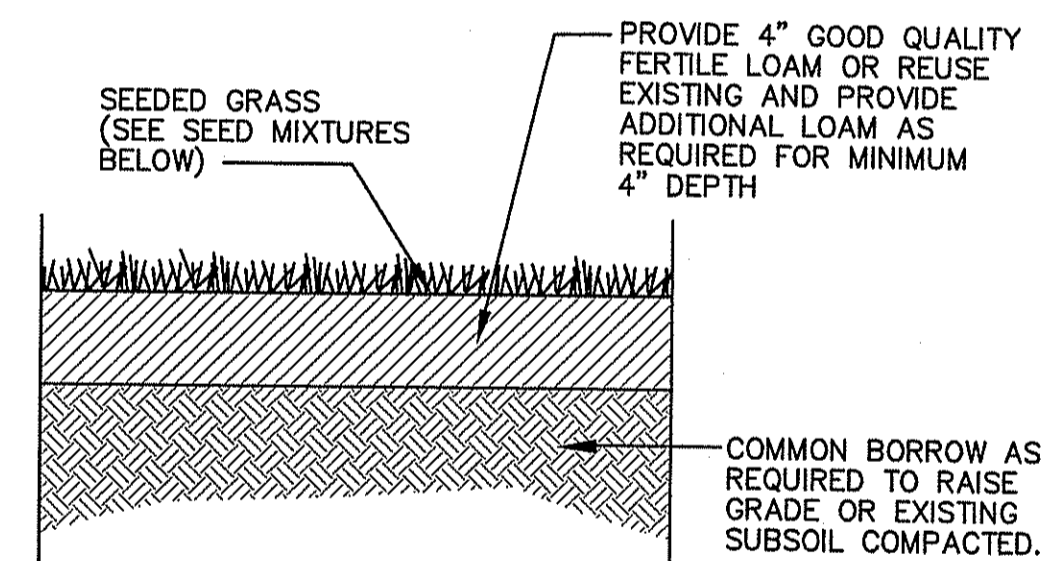
BB
BITUMINOUS CONCRETE BERM
NOT TO SCALE



NOTES:

1. PIPE BEDDING AND BACKFILL TO SPRING LINE SHALL CONSIST OF CRUSHED STONE-3/4" MINUS. PIPE BACKFILL SHALL CONSIST OF CRUSHED STONE (WRAPPED IN FILTER FABRIC) OR GRAVEL (3" MINUS, WITH SIEVE ANALYSIS APPROVED BY ENGINEER), OR OTHER APPROVED MATERIAL. TRENCH BACKFILL SHALL CONSIST OF SUITABLE EXCAVATED MATERIAL OR OTHER APPROVED MATERIAL. ALL BEDDING/BACKFILL TO BE COMPACTED TO 95% DRY DENSITY, MODIFIED PROCTOR METHOD.
2. ALL TRENCH EXCAVATION AND ANY SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND OSHA REGULATIONS.
3. MINIMUM TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE AT BELL PLUS 12". MAXIMUM TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE AT BELL PLUS 24".
4. IF THE CONTRACTOR ELECTS TO PERFORM THE DRAINAGE WORK PRIOR TO RECLAMATION, THEN A 2" TEMPORARY BITUMINOUS PAVEMENT PATCH SHALL BE INSTALLED OVER THE TRENCH WIDTH IMMEDIATELY FOLLOWING PIPE INSTALLATION.

DRAIN LINE TRENCH DETAIL
NOT TO SCALE



SUN MIX
ENDOPHYTE ENHANCED SEED
30% IMPROVED PERENNIAL RYGRASS
30% CHEWINGS FESCUE
30% TALL FESCUE
10% KENTUCKY BLUEGRASS

SHADE MIX
SHADY LAWN SEED MIX
25% IMPROVED PERENNIAL RYGRASS
25% CREEPING RED FESCUE
20% CHEWINGS FESCUE
20% HARD FESCUE
5% IMPROVED KENTUCKY BLUEGRASS
5% POA TRIVIALS

SEEDING RATE
1.5 TO 2.0 POUNDS PER 100 SQUARE FEET (S.F.) FOR BOTH TYPES OF SEED

SEEDING DATES
APRIL 1 - MAY 15
AUGUST 15 - OCTOBER 15

NOTES:

1. SEED MIXTURES AS SUPPLIED BY ALLENS SEED STORE, INC. LOCATED IN EXETER, RHODE ISLAND, OR APPROVED EQUAL.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR WATERING, EROSION CONTROL MAINTENANCE, REPAIR OF TIRE RUTS (ASSUME 400 L.F.), RE-RAKING, ROLLING AND SEEDING DUE TO INCLEMENT WEATHER DURING THE COURSE OF THE GROWING SEASON AND FOR A PERIOD OF ONE (1) YEAR.
3. THE CONTRACTOR SHALL HAND ROLL ALL LOAM AREAS PRIOR TO SEEDING. ANY AREAS THAT ARE SUBJECT TO EROSION TENDENCIES SHALL RECEIVE AN EROSION CONTROL TREATMENT.

LS
LOAM AND SEED DETAIL
NOT TO SCALE

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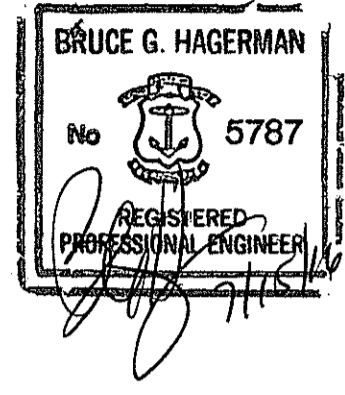
CROSSMAN ENGINEERING

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Environmental Management

JUL 15 2016

Office of Water Resources

PROJECT TITLE:

LAKE SHORE DRIVE
NEIGHBORHOOD
RECLAMATION &
RESURFACING PROJECT

BURRILLVILLE, R.I.

PREPARED FOR:

TOWN OF BURRILLVILLE
DEPARTMENT OF PUBLIC WORKS
65 UNION STREET
HARRISVILLE, R.I. 02830

DRAWING TITLE:

MISCELLANEOUS
DETAILS PLAN NO. 2

DATE: JUNE 2016 SCALE: AS NOTED

DWG. NAME: 2073-12-DET02.dwg

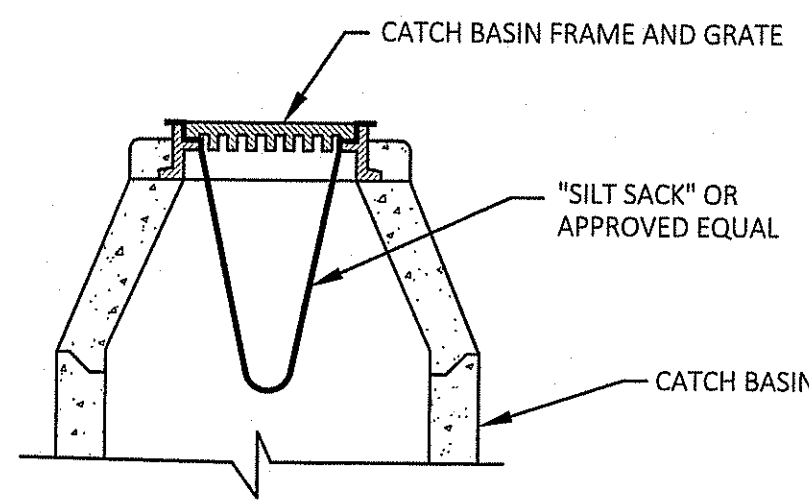
REVISIONS

NUMBER	REMARKS	DATE

DRAWING NUMBER

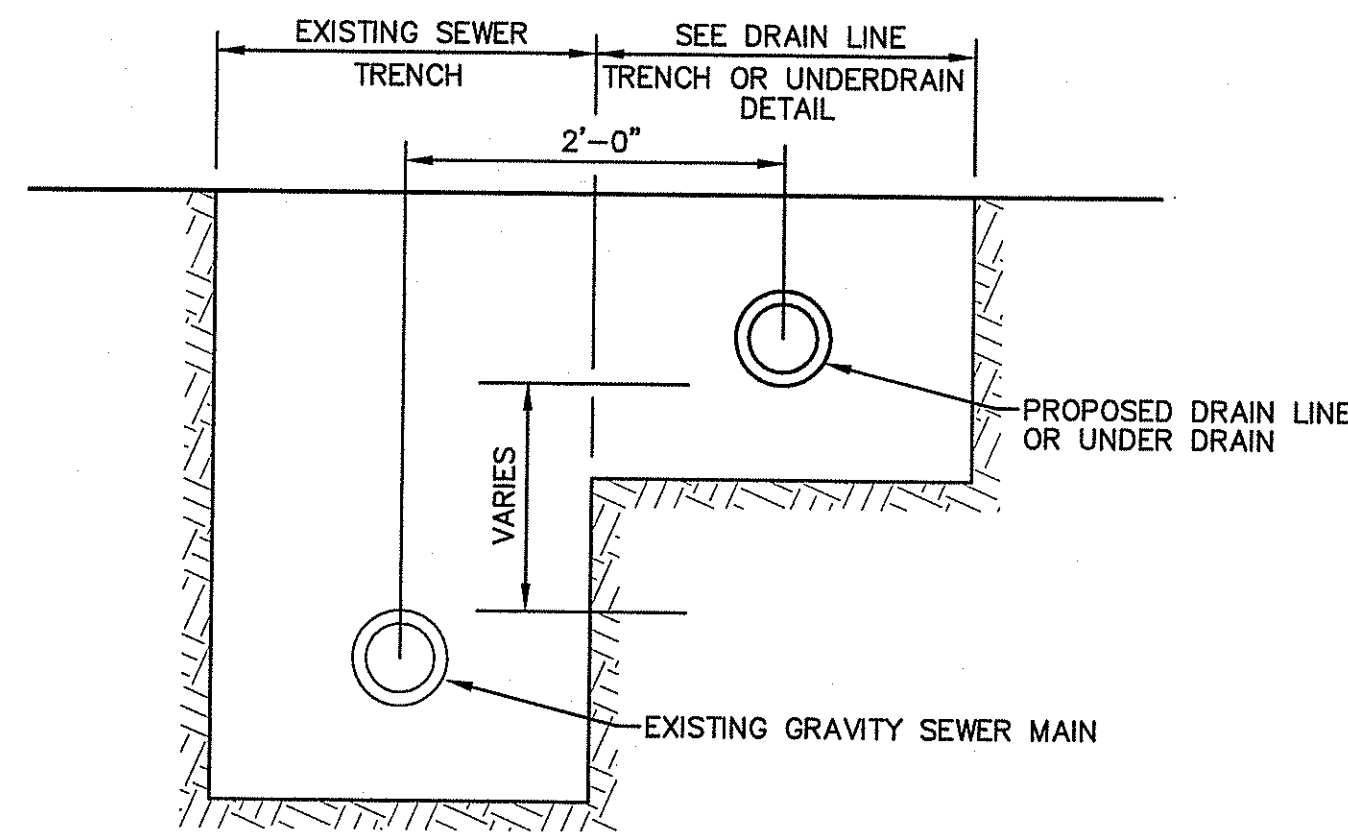
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SHEET: 12 OF 17



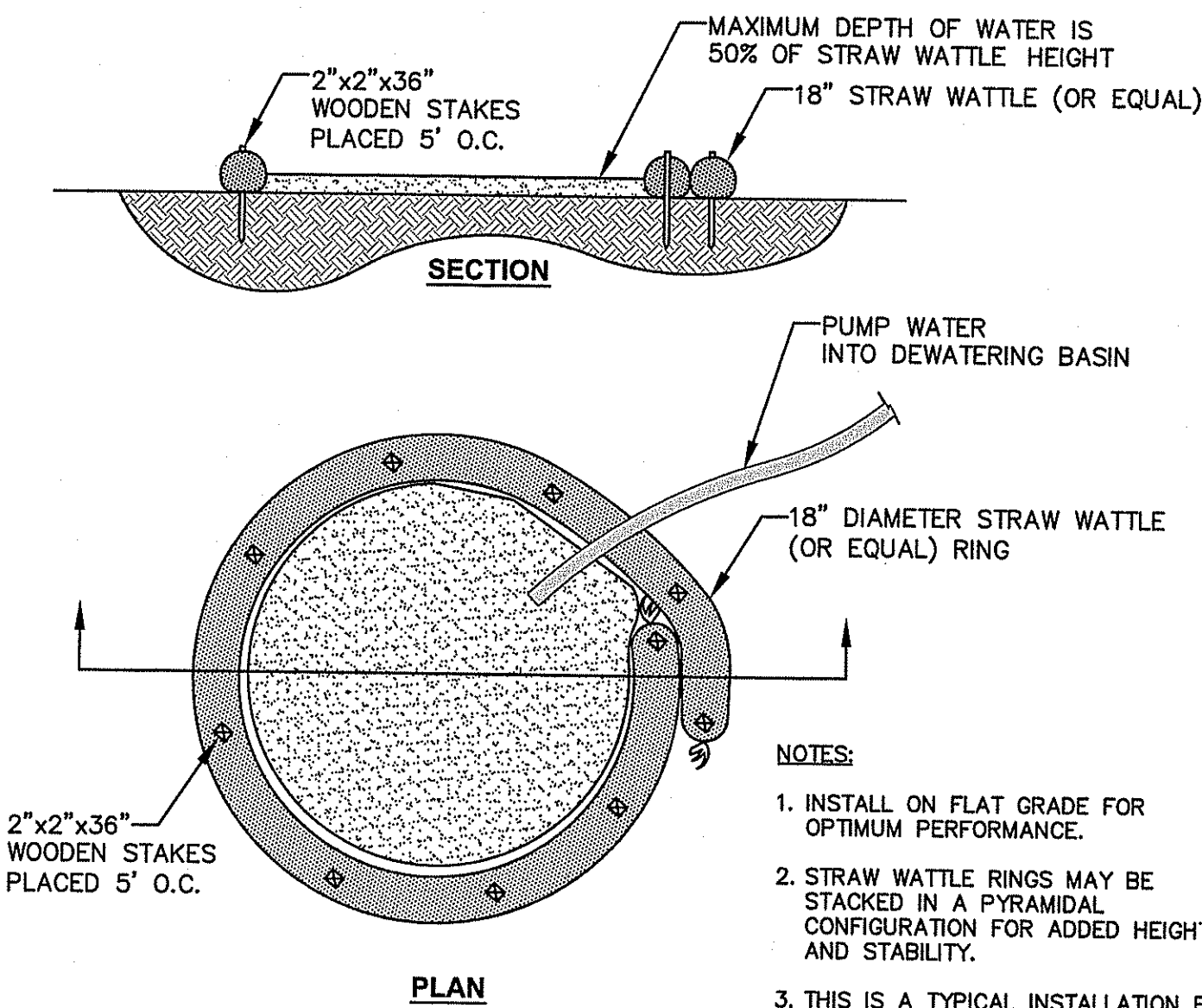
- NOTES:**
1. TO BE INSTALLED IN ALL THE EXISTING AND NEW CATCH BASINS UNTIL COMPLETION OF CONSTRUCTION.
 2. BOOT ADAPTER MAY BE TRIMMED TO SIZE.
 3. SHALL BE CHECKED AND CLEANED AFTER EVERY STORM EVENT.

SS
FILTER BAG INLET SEDIMENT CONTROL DEVICE DETAIL
 NOT TO SCALE



NOTE:
 FOR EXCAVATION, BEDDING, AND BACKFILL DETAILS, AND FOR PAYMENT LIMITS NOT SHOWN, SEE DRAIN LINE TRENCH OR UNDER DRAIN DETAIL.

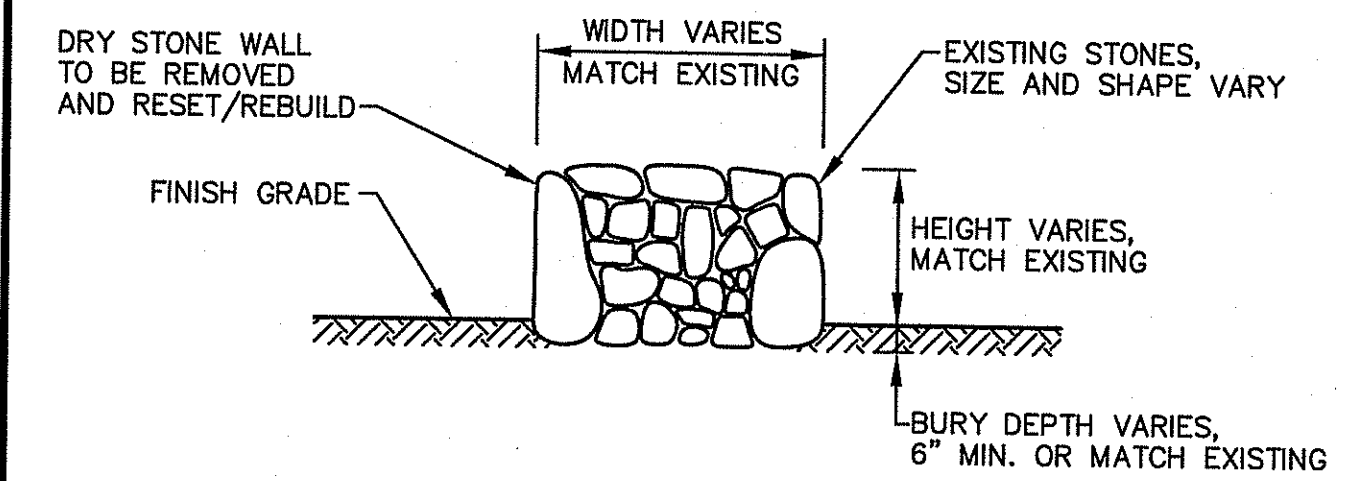
SEWER AND DRAIN PIPE IN SAME TRENCH DETAIL
 NOT TO SCALE



- NOTES:**
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
 2. STRAW WATTLE RINGS MAY BE STACKED IN A PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT AND STABILITY.
 3. THIS IS A TYPICAL INSTALLATION FOR DEWATERING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING EQUIPMENT AND MATERIALS FOR THE APPROPRIATE METHOD FOR TREATING THE DEWATERING FLOW BASED UPON ACTUAL CONDITIONS AT THE SITE AT THE TIME OF CONSTRUCTION.
 4. DEWATERING FILTER BAGS MAY BE USED IN LIEU OF THE FILTER RING.

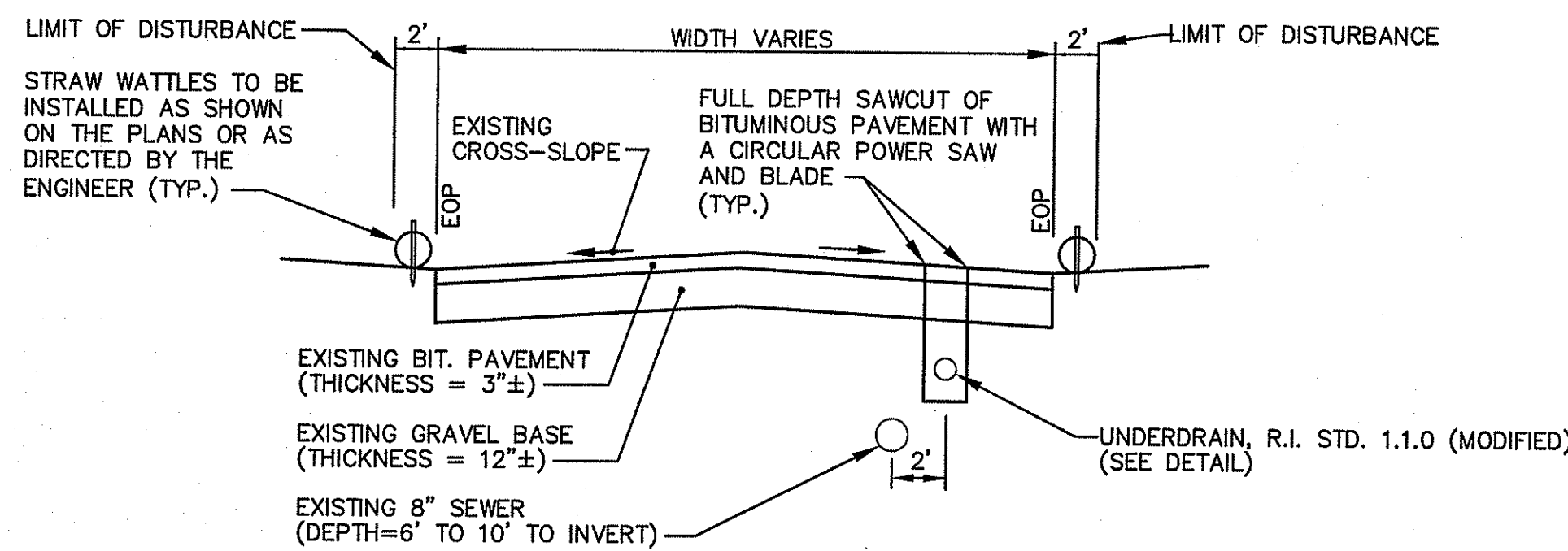
DEWATERING BASIN DETAIL
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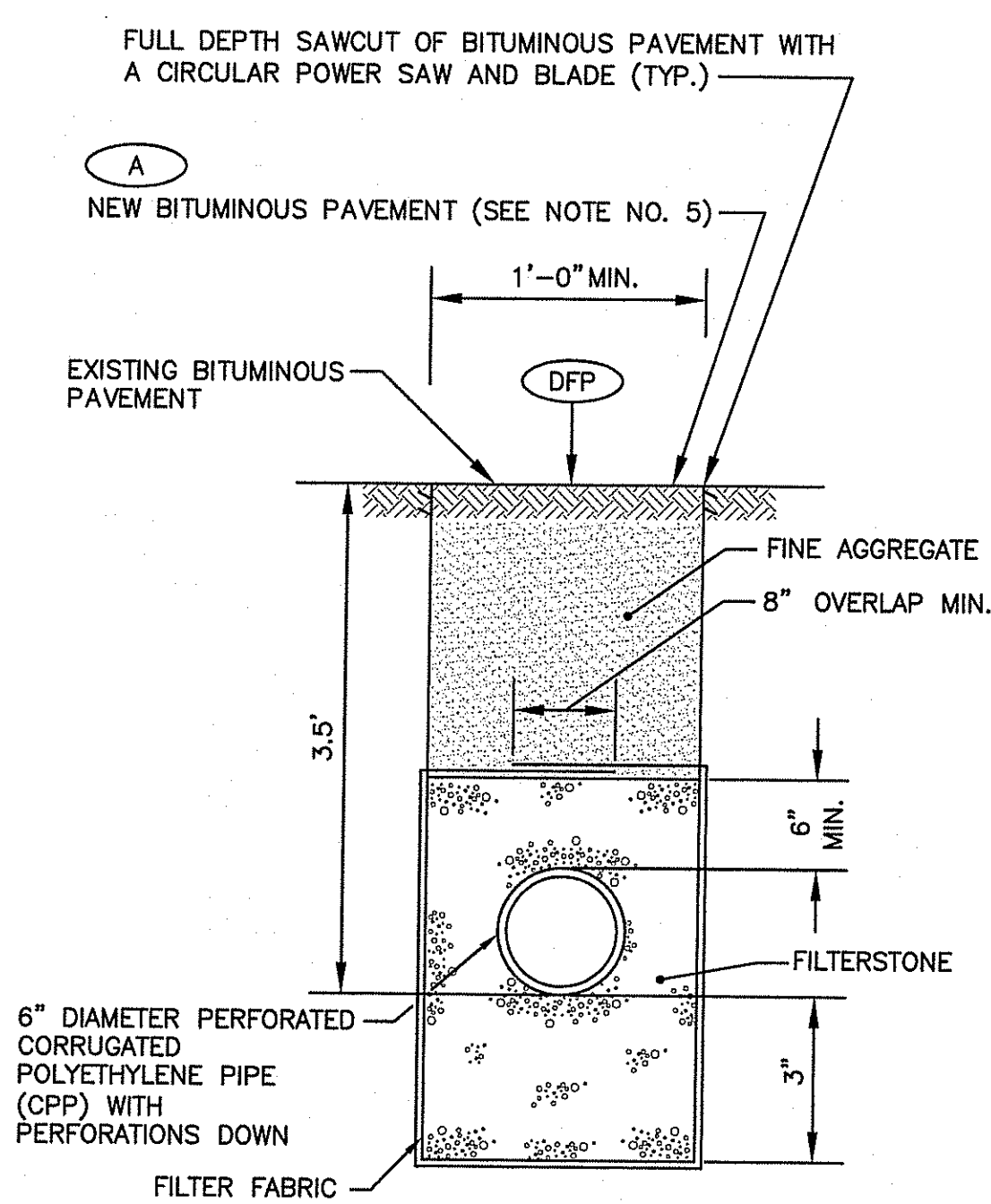


- NOTES:**
1. WHEN REMOVING THE EXISTING DRY STONE WALL, STOCKPILE THE STONES PARALLEL TO THEIR EXISTING POSITIONS IN A MANNER WHICH PERMITS REPLICATION OF THE EXISTING STYLE DURING THE REBUILDING PROCESS.
 2. REBUILDING OF DRY STONE WALLS SHALL MATCH THE EXISTING STYLE AND STONE PLACEMENT TECHNIQUE. AT A MINIMUM, PLACE LARGE STONES WITH A FLAT SURFACE ALONG THE BORDER/SIDEWALLS AND FILL THE CENTER VOID WITH SMALLER STONES.
 3. IF THE EXISTING CONSTRUCTION STYLE IS INCONSISTENT, THE ENGINEER AND/OR OWNER SHALL SELECT A STYLE/TECHNIQUE.
 4. IF EXISTING STONES ARE LOST OR DAMAGED DURING THE PROCESS, THE CONTRACTOR SHALL PROVIDE NEW STONES AT NO ADDITIONAL COST TO THE OWNER.
 5. ANY EXISTING STONE WALLS THAT ARE DAMAGED DUE TO STUMP REMOVAL SHALL ONLY BE REBUILT AFTER ALL STUMP REMOVAL IS COMPLETED, THE VOID AREA HAS BEEN FILLED WITH MATERIAL AND THOROUGHLY COMPACTED.

RSR
REMOVE, STOCKPILE AND REBUILD DRY STONE WALL
 NOT TO SCALE

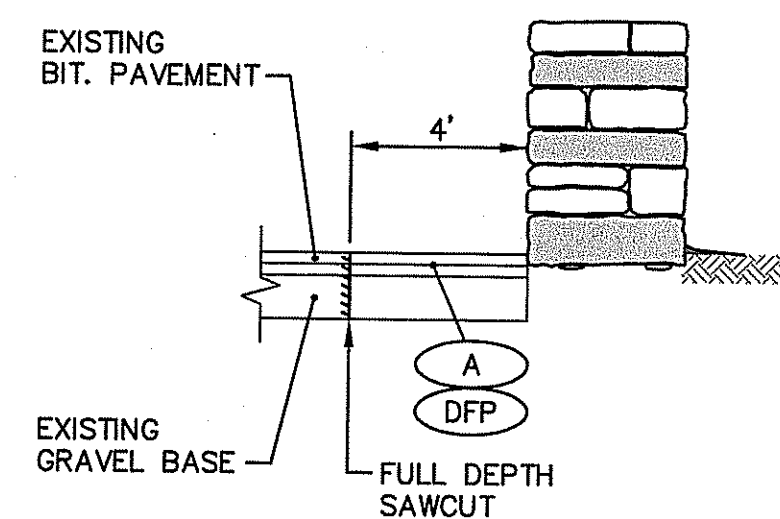


TYPICAL ROAD SECTION WITH UNDER DRAIN
 NOT TO SCALE



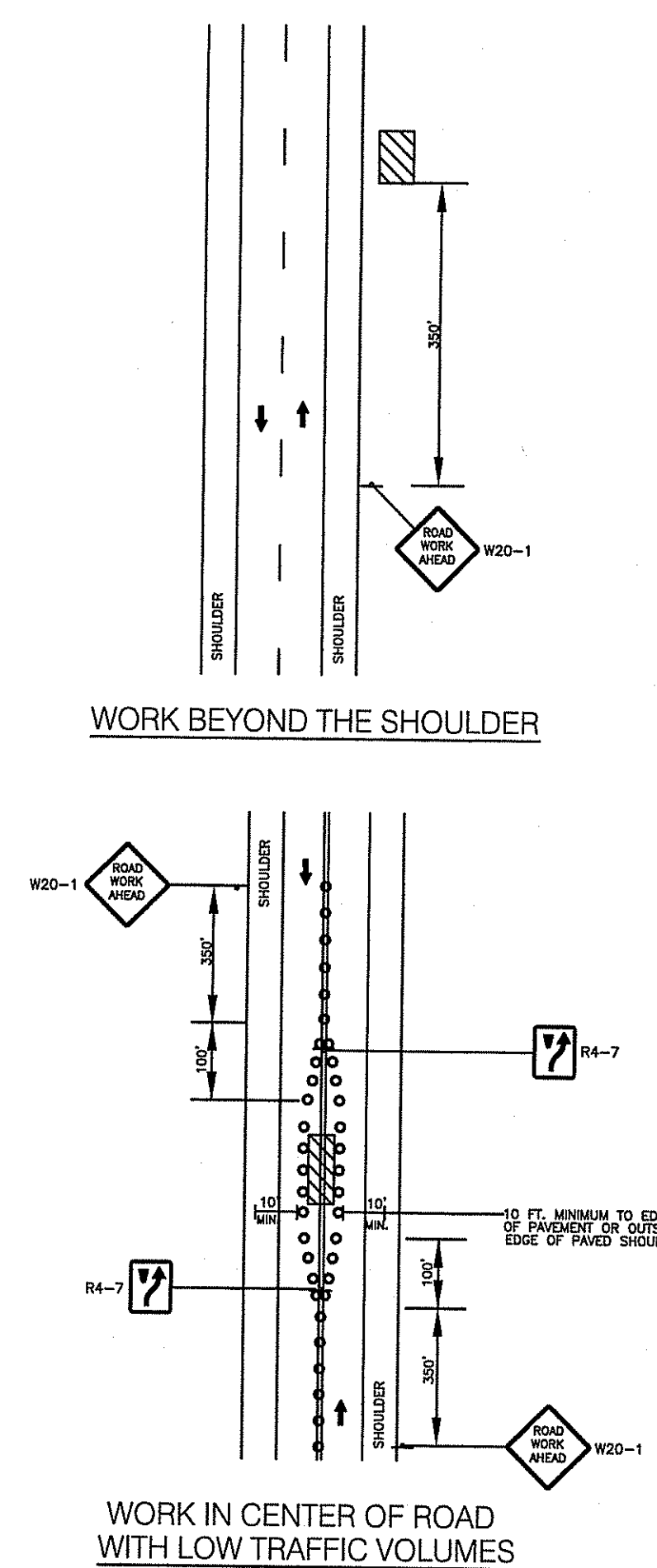
- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 703 OF THE R.I. STANDARD SPECIFICATIONS.
 2. DISTANCE DIMENSIONS ARE GIVEN TO THE OUTSIDE DIAMETER OF PIPE.
 3. MINIMUM PIPE SLOPE SHALL BE 0.50 PERCENT.
 4. MINIMUM PIPE COVER IS 3 FEET.
 5. IF THE CONTRACTOR ELECTS TO PERFORM THE DRAINAGE WORK PRIOR TO RECLAMATION, THEN A 2" TEMPORARY BITUMINOUS PAVEMENT PATCH SHALL BE INSTALLED OVER THE TRENCH WIDTH IMMEDIATELY FOLLOWING PIPE INSTALLATION.

1.1.0M
UNDERDRAIN, R.I. STD. 1.1.0 (MODIFIED)
 NOT TO SCALE

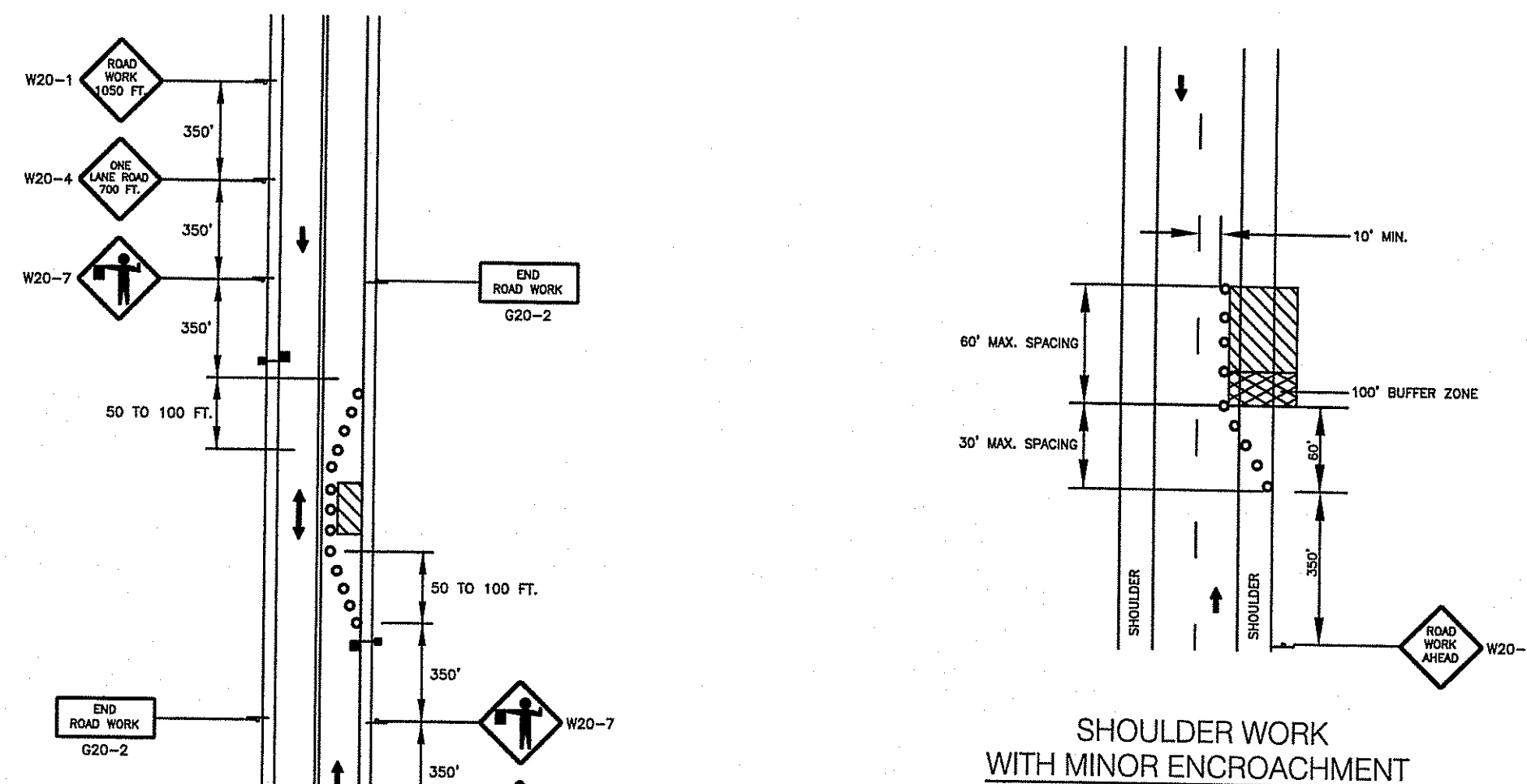


NOTE:
 THE CONTRACTOR SHALL BE AWARE THAT EXISTING WALLS (BOTH DRY AND WET) EXIST ALONG THE EDGE OF PAVEMENT WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL DO A FULL DEPTH SAWCUT OF THE BITUMINOUS PAVEMENT FOUR (4) FEET OFF THE FACE OF THE WALL FOR THE FULL LENGTH OF THE WALL AND REMOVE AND DISPOSE THE EXISTING BITUMINOUS PAVEMENT. ANY WALLS DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

REMOVAL OF BITUMINOUS PAVEMENT AT EXISTING WALLS DETAIL
 NOT TO SCALE



- NOTES:**
1. ANY ROADWAY WORK ADJACENT TO AN INTERSECTION REQUIRES THAT A UNIFORMED TRAFFIC PERSON CONTROL TRAFFIC AT THE INTERSECTION.
 2. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD.) FOR CONDITIONS NOT ADDRESSED ON THESE PLANS.
 3. ALL TEMPORARY SIGNS TO BE 36"x36" EXCEPT AS NOTED. ALL SIGNS SHALL BE INSTALLED DAILY PRIOR TO ANY WORK.
 4. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, INCLUDING SCHEDULING AND OBTAINING POLICE OFFICERS OR RIDOT LICENSED FLAGPERSONS DURING CONSTRUCTION.
 5. THE CONTRACTOR SHALL ONLY USE BOTH POLICE OFFICERS AND CRUISERS DURING RECLAMATION OR PAVING OPERATIONS. DURING ALL OTHER WORK (GENERAL WORK, DRAINAGE INSTALLATION, ETC.) ONLY A POLICE OFFICER (NO CRUISER) SHALL BE USED TO DIRECT TRAFFIC. THE TOWN MAY ALSO ELECT TO USE ONLY POLICE OFFICERS WITHOUT CRUISERS IF THE BUDGET DICTATES THE NEED.



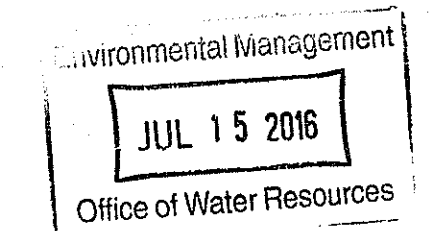
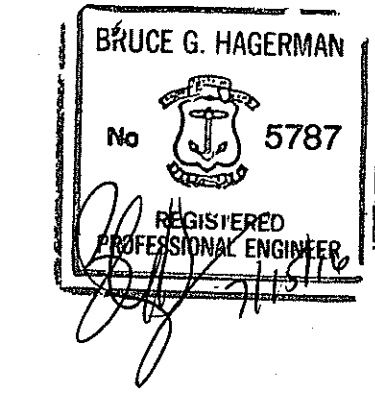
- LEGEND**
- WORK ZONE
 - FLUORESCENT TRAFFIC CONES
 - TEMPORARY CONSTRUCTION SIGN
 - FLAGGER

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED SEP 06 2016 FILE # 16-0170
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



CROSSMAN ENGINEERING
 Rhode Island: 151 Centerville Road, Warwick, RI 02886, Phone: (401) 738-6680
 Massachusetts: 103 Commonwealth Avenue, North Attleboro, MA 02763, Phone: (508) 695-1700
 Email: ce@crosmaneng.com

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PROJECT TITLE:
 LAKE SHORE DRIVE NEIGHBORHOOD RECLAMATION & RESURFACING PROJECT
 BURRILLVILLE, R.I.

PREPARED FOR:
 TOWN OF BURRILLVILLE
 DEPARTMENT OF PUBLIC WORKS
 65 UNION STREET
 HARRISVILLE, R.I. 02830

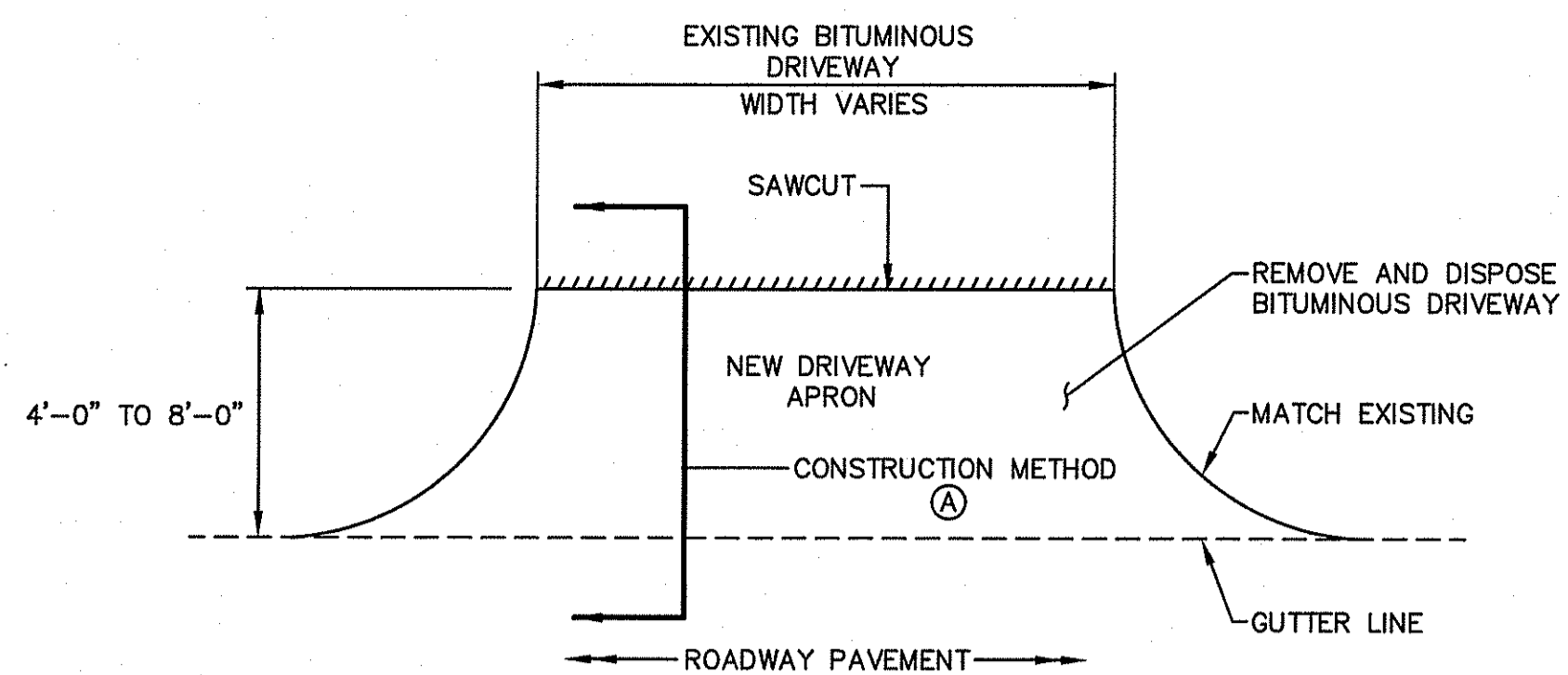
DRAWING TITLE:
 MISCELLANEOUS DETAILS PLAN NO. 3

DATE: JUNE 2016 **SCALE:** AS NOTED

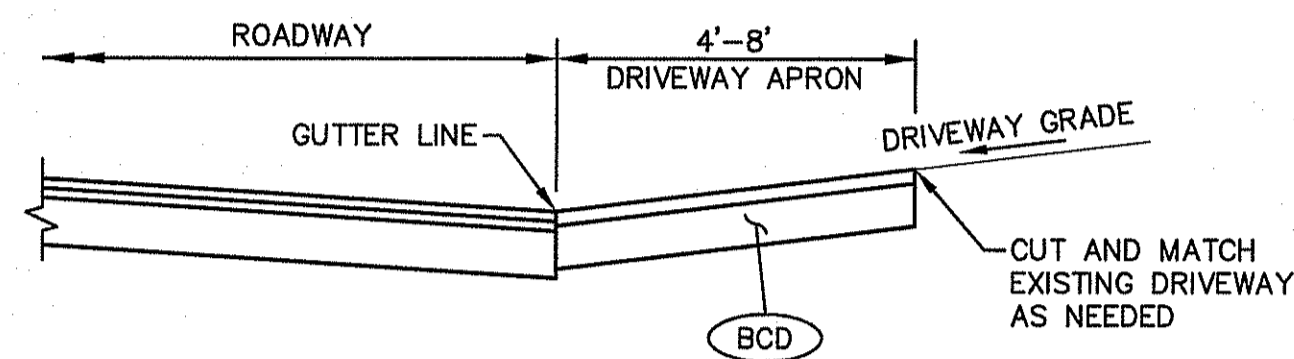
DWG. NAME: 2073-13-DET03.dwg

REVISIONS		
NUMBER	REMARKS	DATE

DRAWING NUMBER:
C5.3
 SHEET: 13 OF 17



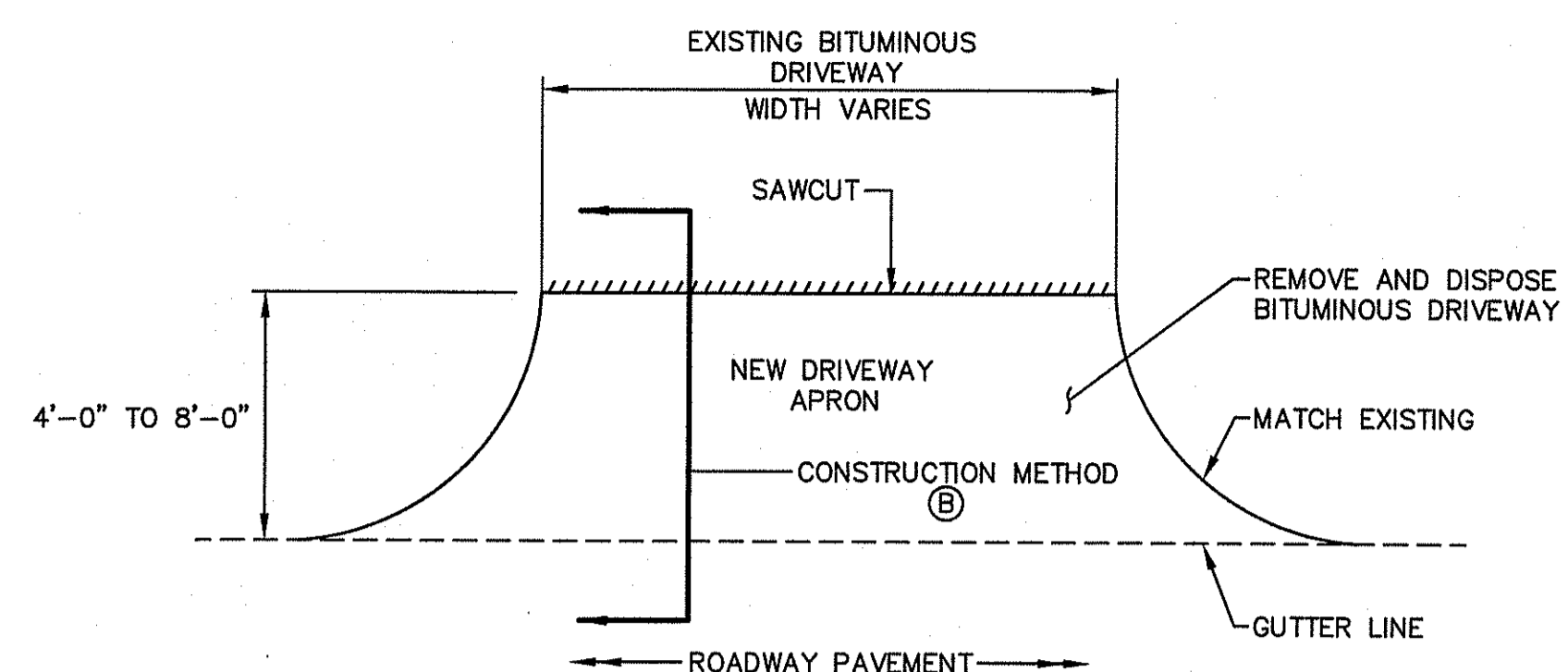
PLAN



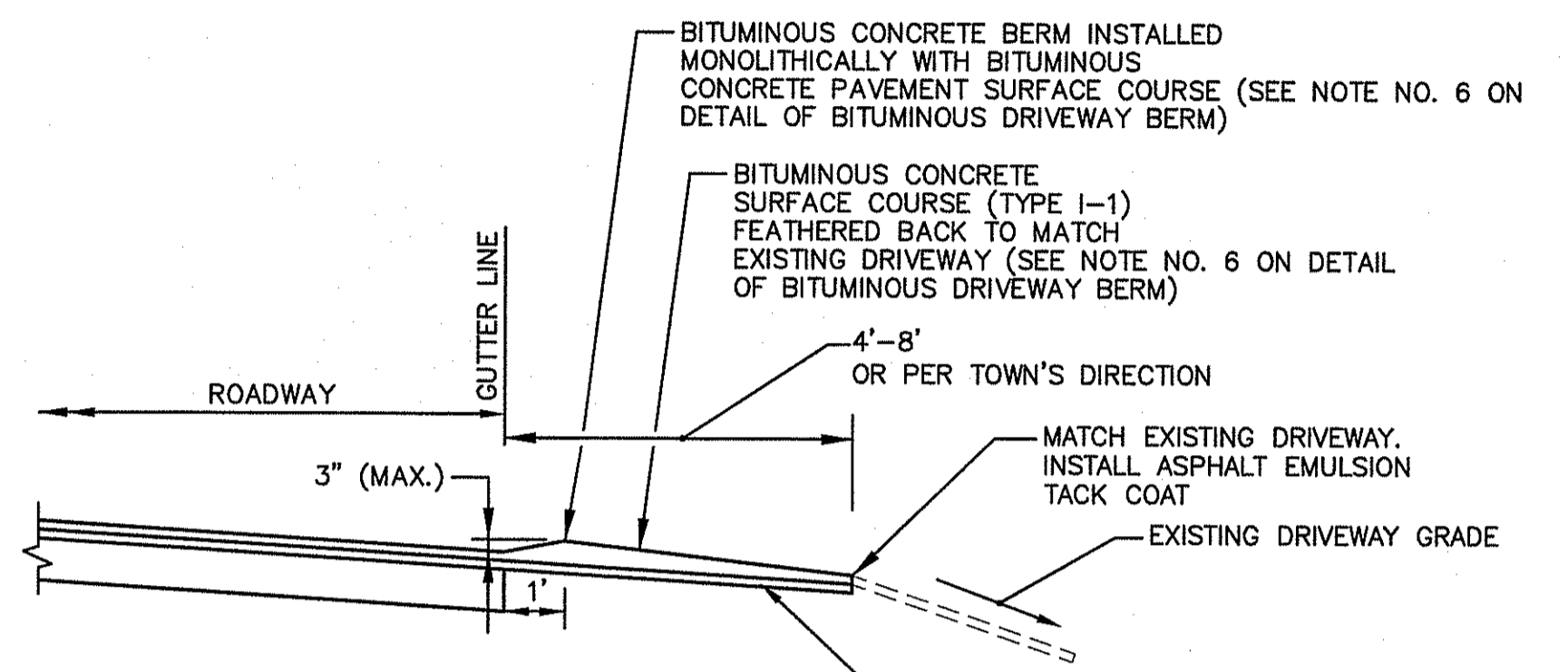
METHOD 'A' SECTION

BCD-1

BITUMINOUS CONCRETE DRIVEWAY - TYPE 1
NOT TO SCALE



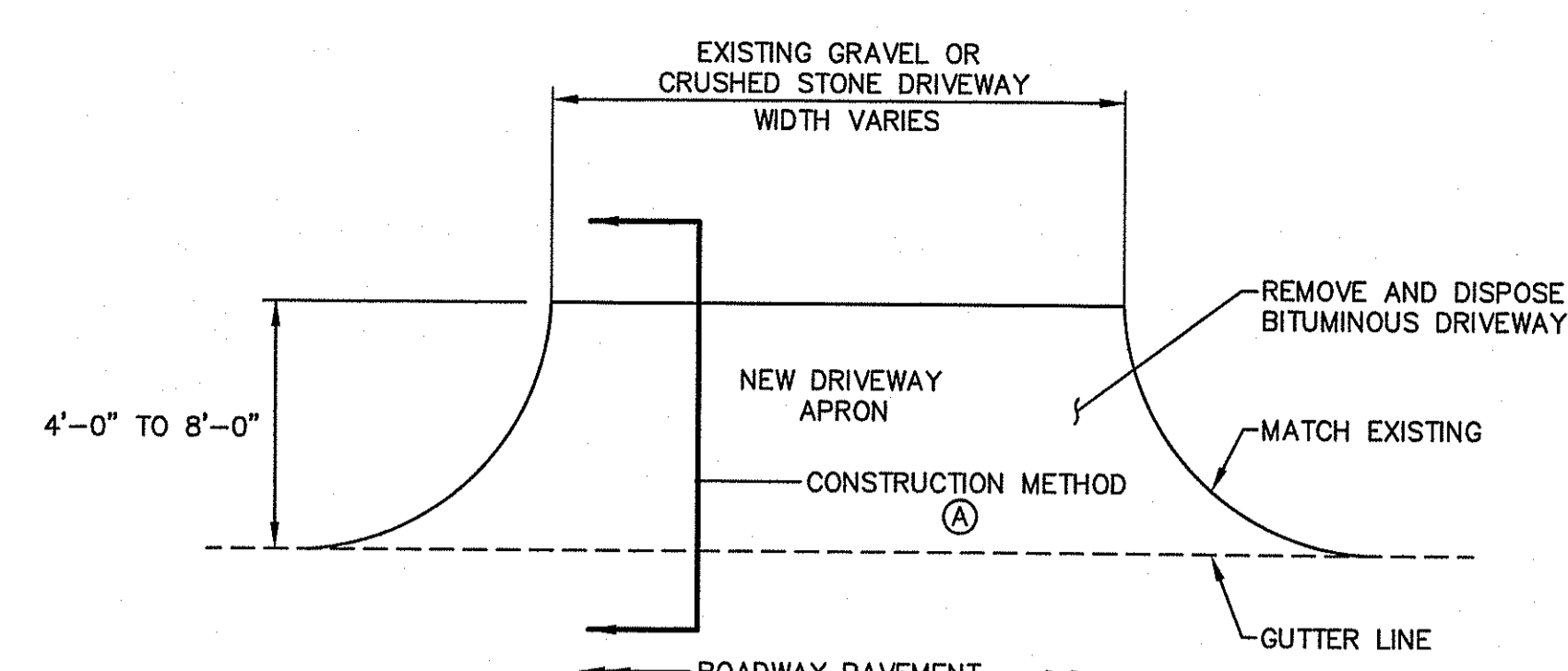
PLAN



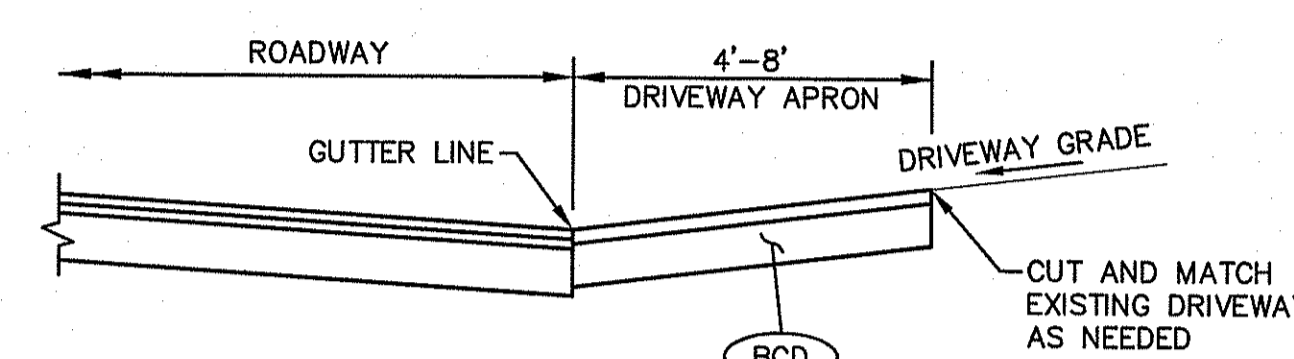
METHOD 'B'

BCD-2

BITUMINOUS CONCRETE DRIVEWAY - TYPE 2
NOT TO SCALE



PLAN



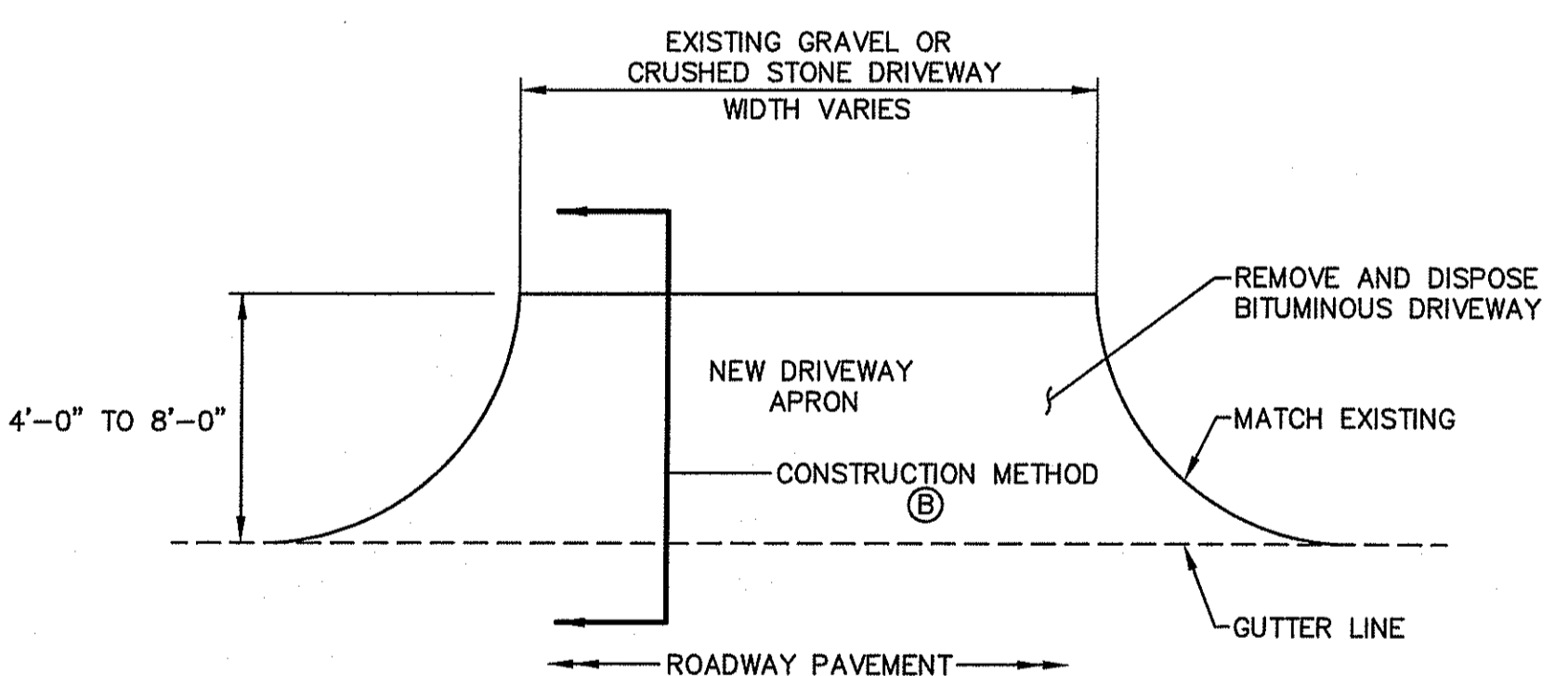
METHOD 'A' SECTION

BCD-3

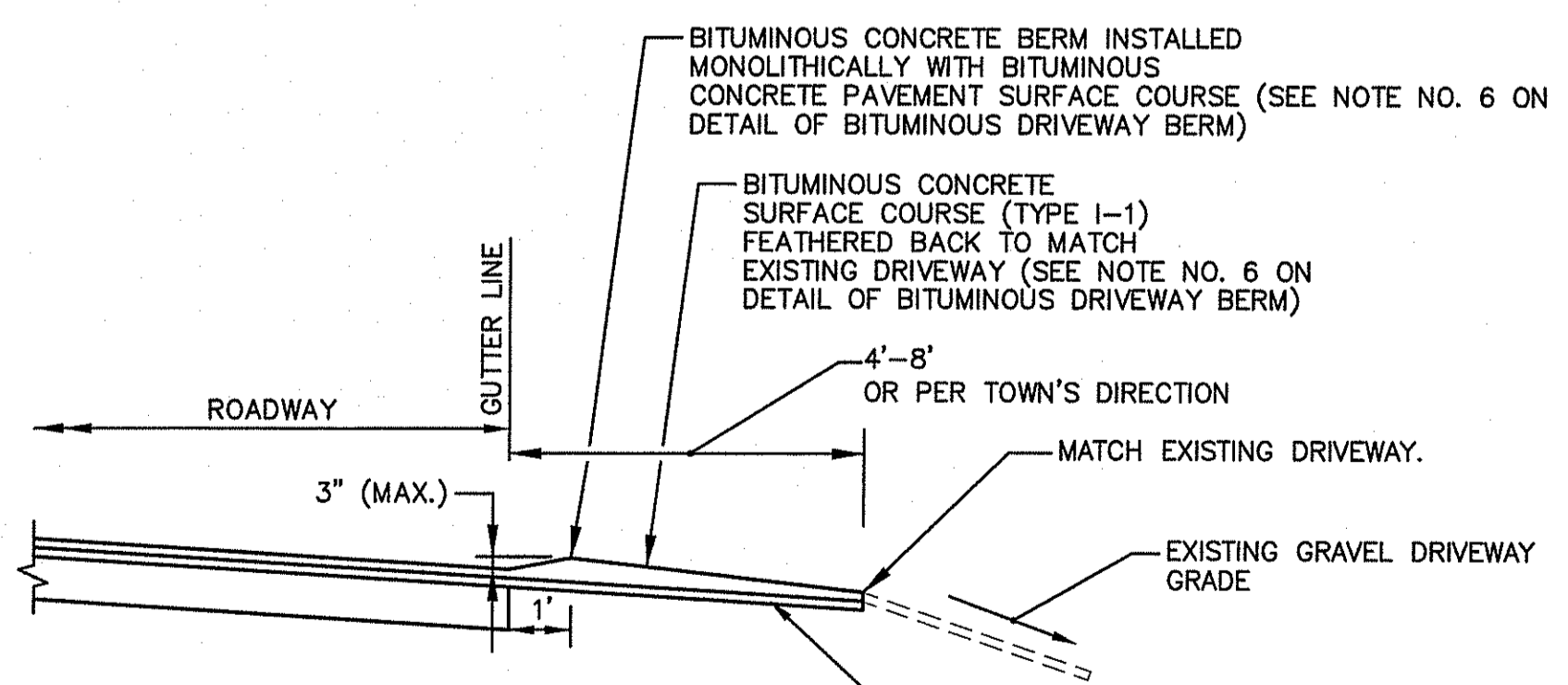
BITUMINOUS CONCRETE DRIVEWAY - TYPE 3
NOT TO SCALE

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 SHOWN IN THE LETTER OF APPROVAL
DATE: SEP 06 2016 FILE # 16-0190
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



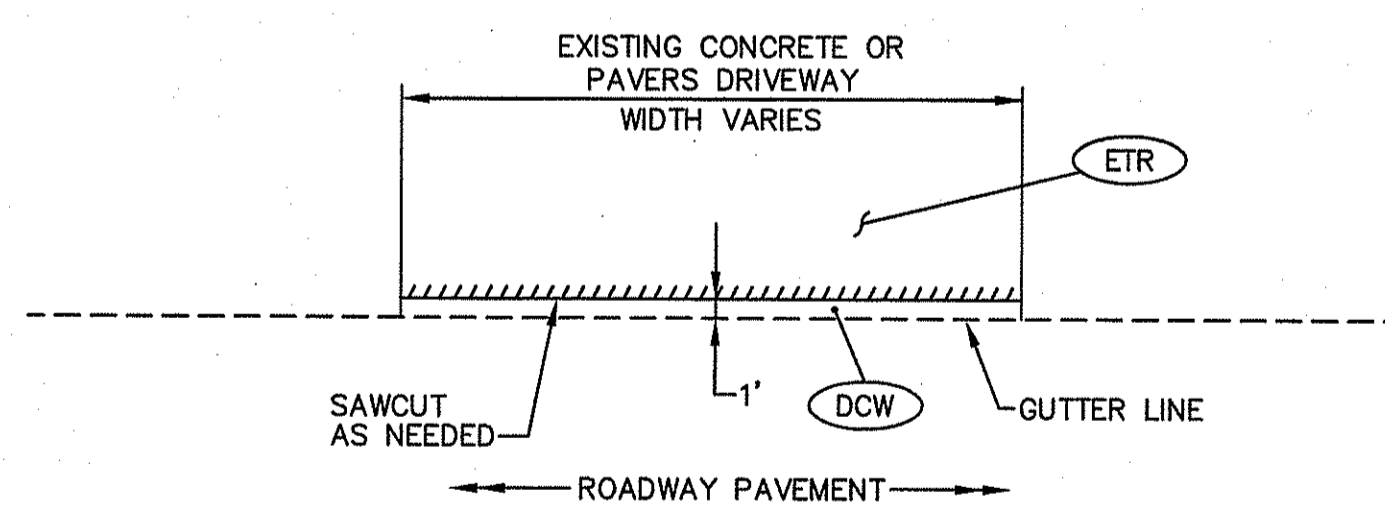
PLAN



METHOD 'B'

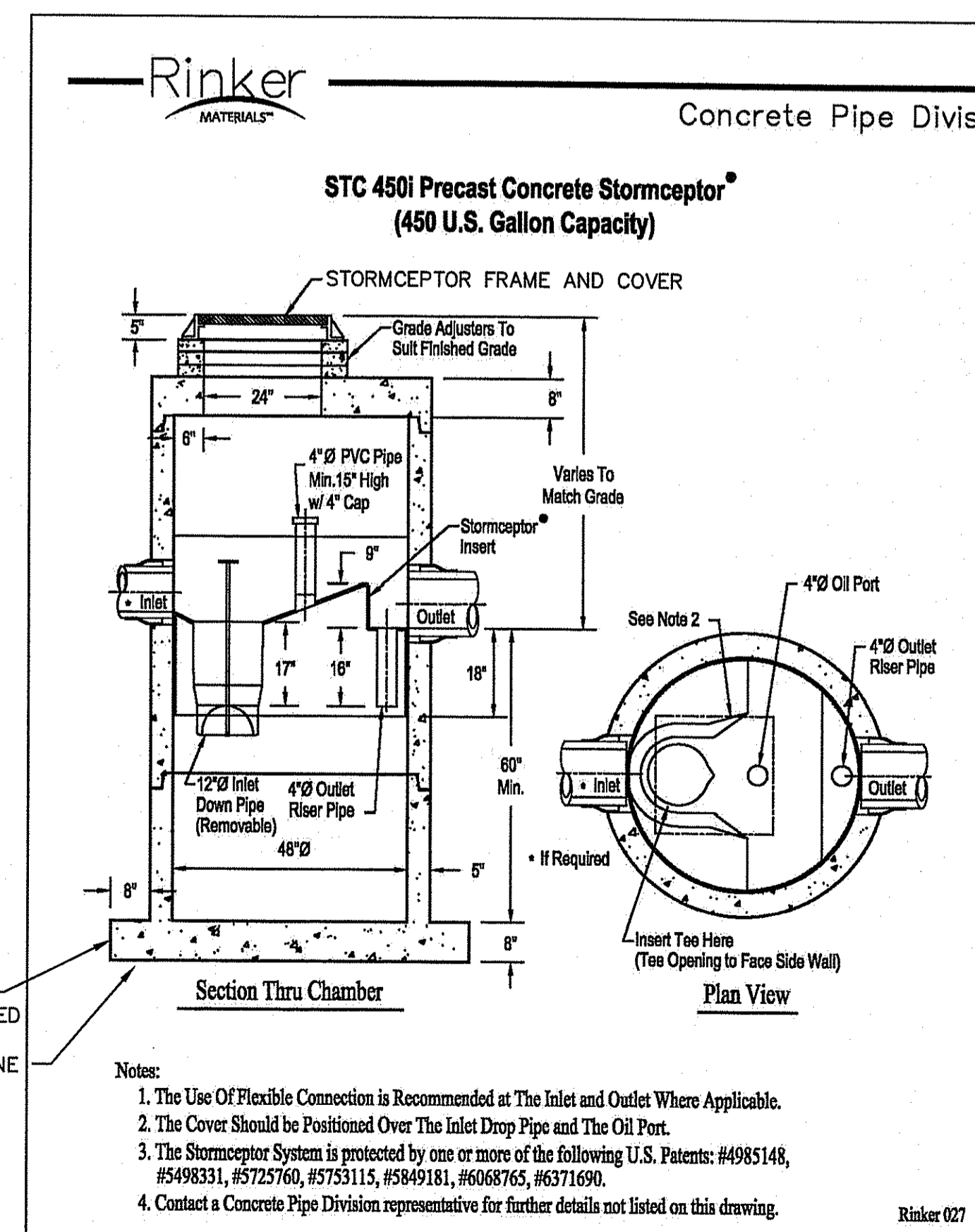
BCD-4

BITUMINOUS CONCRETE DRIVEWAY - TYPE 4
NOT TO SCALE



PLAN

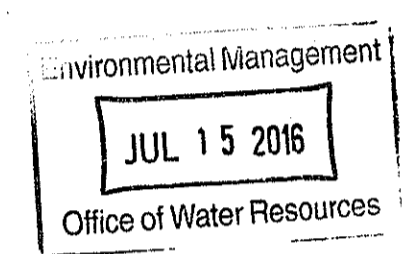
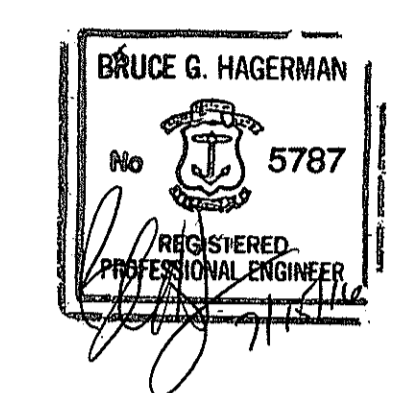
CEMENT CONCRETE DRIVEWAY - TYPE 5
NOT TO SCALE



STORMWATER TREATMENT CHAMBER DETAIL
NOT TO SCALE

Crossman Engineering
Rhode Island: 151 Centerville Road, Warwick, RI 02886, Phone: (401) 738-8660
Massachusetts: 103 Commonwealth Avenue, North Attleboro, MA 02763, Phone: (508) 695-1700
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BURRILLVILLE, R.I.

PREPARED FOR:
TOWN OF BURRILLVILLE
DEPARTMENT OF PUBLIC WORKS
65 UNION STREET
HARRISVILLE, R.I. 02830

DRAWING TITLE:
MISCELLANEOUS DETAILS PLAN NO. 6

DATE: JUNE 2016 SCALE: AS NOTED
DWG. NAME: 2073-13-DET05.dwg

REVISIONS	NUMBER	REMARKS	DATE
△			

DRAWING NUMBER
C5.6
SHEET: 16 OF 17

