SITE PLANS FOR ROADWAY IMPROVEMENTS

SAYLES AVENUE - PHASE II

(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)

BURRILLVILLE, RHODE ISLAND

MICHAEL C. WOOD, TOWN MANAGER

JEFFREY M. McCORMICK, P.E., DIRECTOR OF PUBLIC WORKS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 1 3 2019 FILE # 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

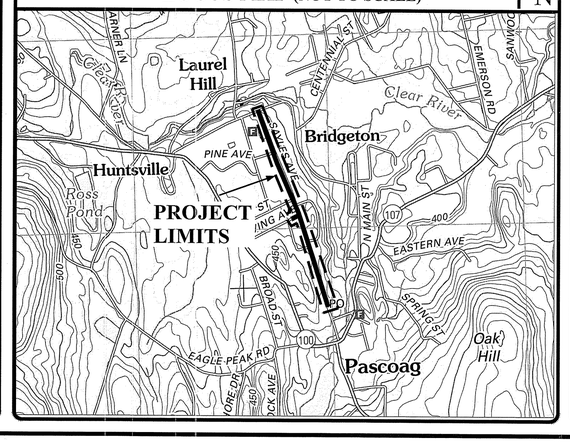
PROJECT TEAM

OWNER: TOWN OF BURRILLVILLE
105 HARRISVILLE MAIN STREET
BURRILLVILLE, RI 02830

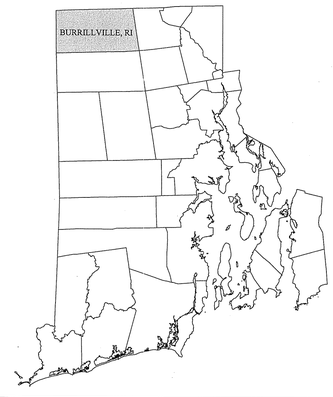
CIVIL: JOE CASALI ENGINEERING, INC.
300 POST ROAD
WARWICK, RI 02888
PHONE: 401-944-1300
FAX: 401-944-1313

SURVEYOR: WATERMAN ENGINEERING COMPANY
46 SUTTON AVENUE
EAST PROVIDENCE, RI 02914
PHONE: 401-438-5775

LOCUS MAP (NOT TO SCALE)



STATE WIDE MAP



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SEP - 5 2019
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REGISTERED
PROFESSIONAL ENGINEER
CIVIL
9.4.19

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(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

BURRILLVILLE R.I.

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NO.	DATE.	DESCRIPTION
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2	09/06/19	RIDEM RTC

DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
NOT FOR CONSTRUCTION

COVER SHEET

SHEET 1 OF 14

R.I.DEM COPY

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II [RIDEM PERMIT R2].dwg Sep. 04, 2019 5:30pm

GENERAL NOTES:

1. CLASS III TOPOGRAPHIC SURVEY AND RIGHT OF WAY INFORMATION COMPLETED IN DECEMBER 2007 AND SUPPLEMENTED IN MAY 2017 AND APRIL 2018 BY WATERMAN ENGINEERING COMPANY, 46 SUTTON AVENUE, EAST PROVIDENCE, RI (REFERENCE PLANS R1 THROUGH R5).

2. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.

SITE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS AT NO ADDITIONAL COST TO THE TOWN.

2. STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.

3. ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.

4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR OR A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.

5. ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.

6. WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN AT NO ADDITIONAL COST TO THE OWNER.

7. ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR TOWN.

8. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.

9. THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.

10. ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED. REFER TO TRAFFIC MANAGEMENT PLANS.

11. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAYS WORK.

12. WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.

13. ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.

14. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.

15. ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, AMENDED DECEMBER 2010 (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

MISCELLANEOUS UTILITY NOTES:

1. PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

2. THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED LIGHTING, WHICH WILL BE PERFORMED BY THE CONTRACTOR FOR NO ADDITIONAL COST.

3. OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.

4. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THEIR OPERATIONS.

5. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.

6. EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.

LAYOUT NOTE:

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

BMP MAINTENANCE SCHEDULE:

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:

   A. MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
   B. INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.

2. UPON COMPLETION OF THE PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.

3. AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE OWNER OR ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE TOWN OR THEIR APPROVED AGENTS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

2. TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.

3. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC, SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 1988 EDITION. INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.

4. SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

DRAINAGE SYSTEM NOTES:

1. ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. THE STRAW WATTLE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.

2. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.

3. ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED STRAW WATTLE DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORM WATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED STRAW WATTLE WITH SILT FENCE (R.I. STD. 9.3.0) AND STAKED STRAW WATTLE WITH SILT FENCE SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.

4. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.

5. ALL STRAW WATTLE, TEMPORARY TREATMENT (STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

6. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.

7. THE STRAW WATTLE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY STRAW WATTLE AS NEEDED.

8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (STRAW WATTLE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.

9. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE 1989 (REVISED 2014).

WATER QUALITY BASIN CONSTRUCTION SEQUENCE:

1. CONTRACTOR TO FURNISH AND INSTALL EROSION CONTROL MEASURES WITHIN EXISTING VEGETATED SWALE. CONTRACTOR TO PROTECT AND MAINTAIN EXISTING STORMWATER FLOW WITHIN VEGETATED SWALE AND VITRIFIED CLAY INLET PIPE.

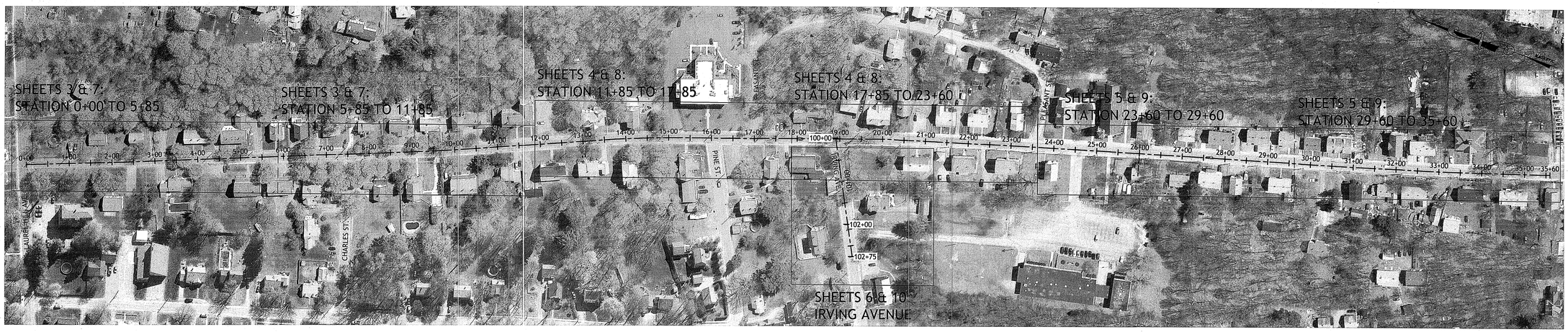
2. CONTRACTOR TO PERFORM ALL PROPOSED SITE, ROADWAY AND DRAINAGE WORK WITHIN IRVING AVENUE, INCLUDING INSTALLATION OF CATCH BASINS AND PIPE NETWORK. EXISTING VEGETATED SWALE IS TO BE PROTECTED AND MAINTAINED AT ALL TIMES DURING THIS CONSTRUCTION.

3. CONTRACTOR TO INSTALL AND TEMPORARILY CAP 6 LF OF 12-INCH DIAMETER HDPE PIPE FROM THE PROPOSED 5-FOOT DIAMETER CATCH BASIN TO STORMCEPTOR 450i.

4. UPON COMPLETION OF ITEMS 1 THROUGH 3 ABOVE, STORMWATER RUNOFF TO THE EXISTING DRAINAGE SWALE WILL BE MINIMAL AND CONSTRUCTION ON THE WATER QUALITY BASIN MAY COMMENCE.

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- ABUTTING PROPERTY LINE
- BUILDING SETBACK LINE
- WETLAND EDGE
- WF WETLAND FLAG
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- 200' RIVERBANK WETLAND
- 100 EXISTING CONTOUR
- 100 PROPOSED CONTOUR
- IRON PIN
- DRILL HOLE
- CONCRETE BOUND
- EXISTING CURB
- GUARD RAIL
- D DRAIN LINE
- DRAINAGE MANHOLE
- CATCH BASIN
- UTILITY POLE
- OHW OVERHEAD WIRES
- UGE UNDERGROUND ELECTRIC
- VERIZON VERIZON LINE
- W WATER LINE
- WATER SHUT OFF VALVE
- W WELL
- S SEWER
- S SMH
- N/F NOW OR FORMERLY
- EXISTING TREE LINE (APPROXIMATE)
- STRAW WATTLE
- LOD LIMIT OF DISTURBANCE
- TP SOIL EVALUATION
- R&R REMOVE & RESET
- R&D REMOVE & DISPOSE
- R&S REMOVE & STOCKPILE



KEY PLAN
STATION 0+00 TO 35+60
SCALE: 1 INCH = 120 FEET

1-888-DIG-SAFE
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM DATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE, EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DIGSAFE AT 1-888-DIG-SAFE
1-888-344-7233

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Environmental Management
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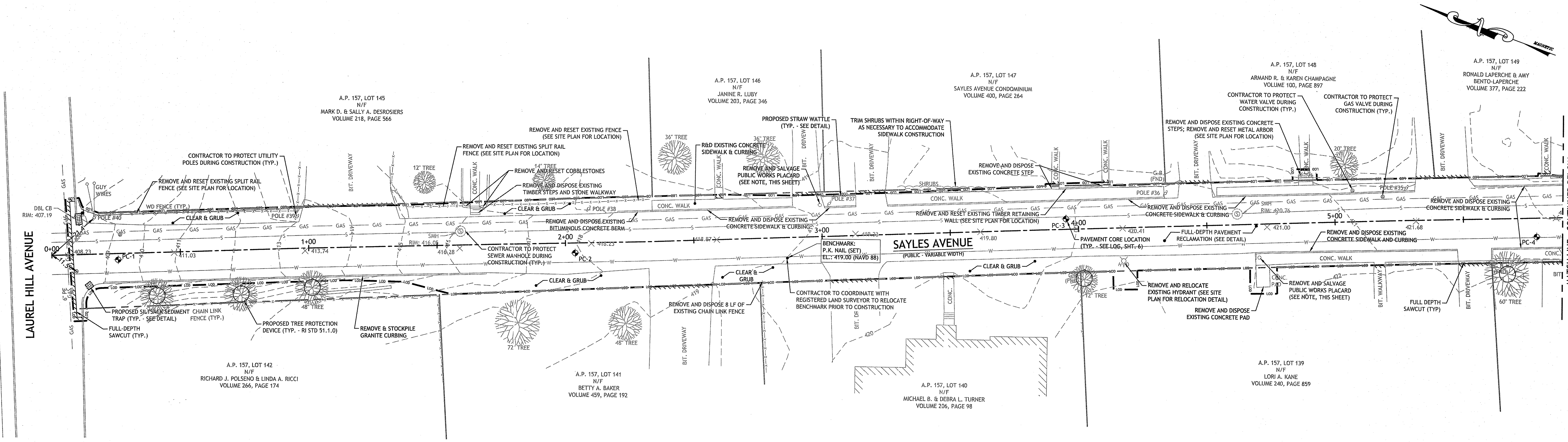
GENERAL NOTES & LEGEND

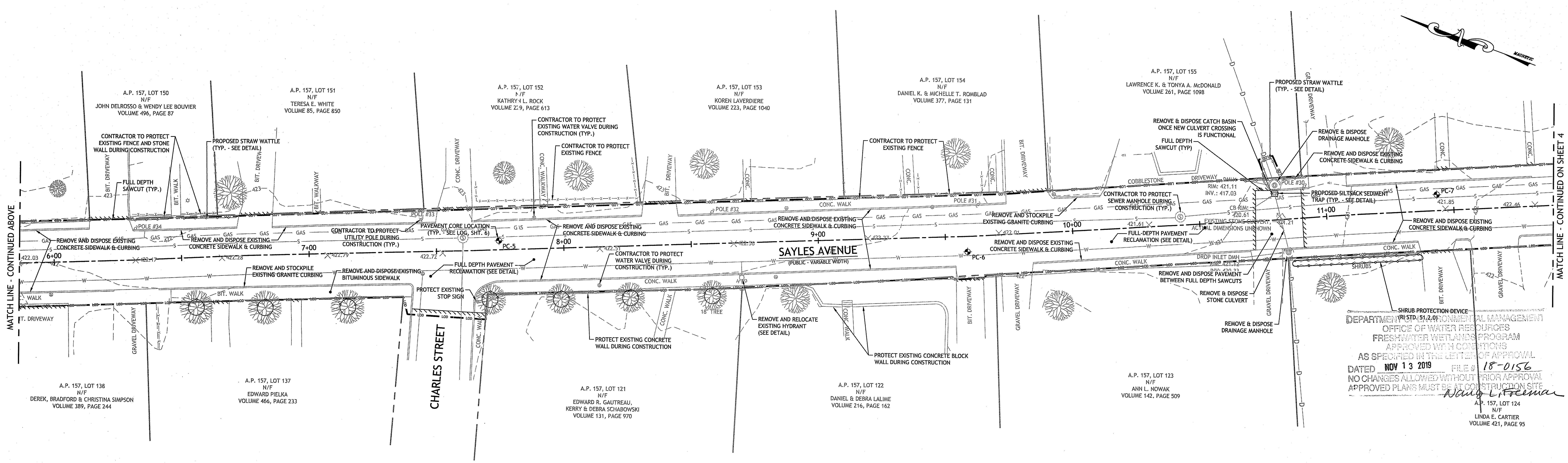
SHEET 2 OF 14

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_ Phase II Design\ACAD\SAYLES AVENUE PHASE II [RIDEA PERMIT R2].dwg, Sep, 04, 2019 5:30pm



SITE PREPARATION PLAN
STATION 0+00 TO 5+85

SCALE: 1 INCH = 20 FEET



SITE PREPARATION PLAN
STATION 5+85 TO 11+85

SCALE: 1 INCH = 20 FEET

NOTE: CONTRACTOR TO COORDINATE WITH BURRILLVILLE DEPARTMENT OF PUBLIC WORKS REGARDING GRANITE CURB AND PUBLIC WORKS PLACARD STOCKPILE LOCATIONS.

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SITE PREPARATION PLAN I

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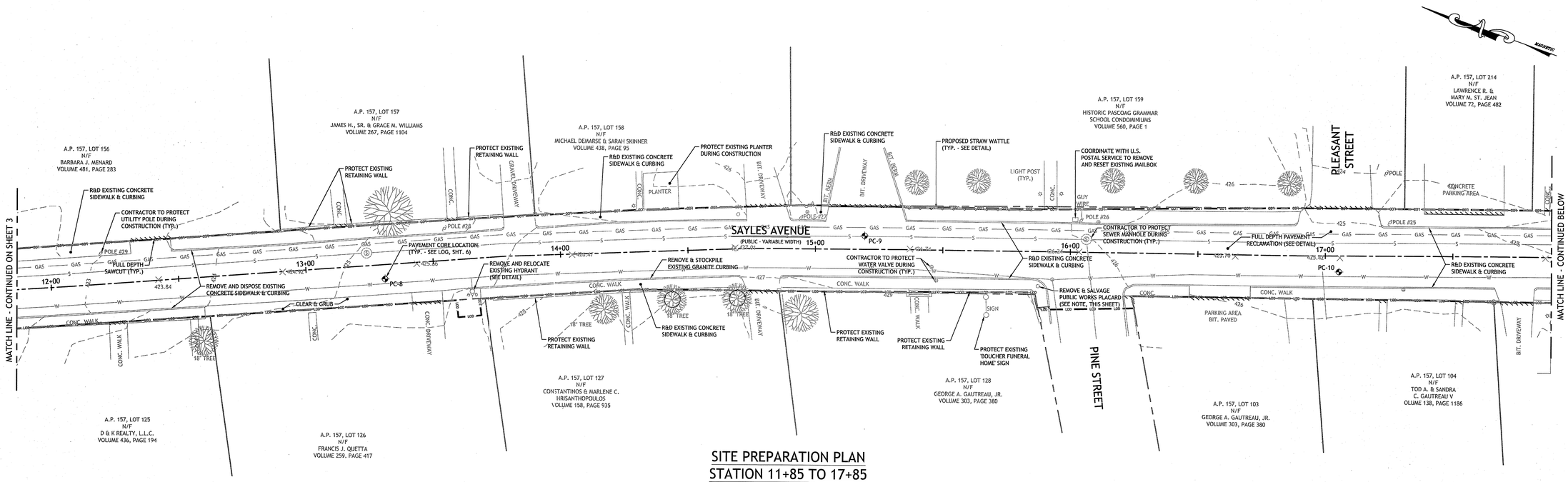
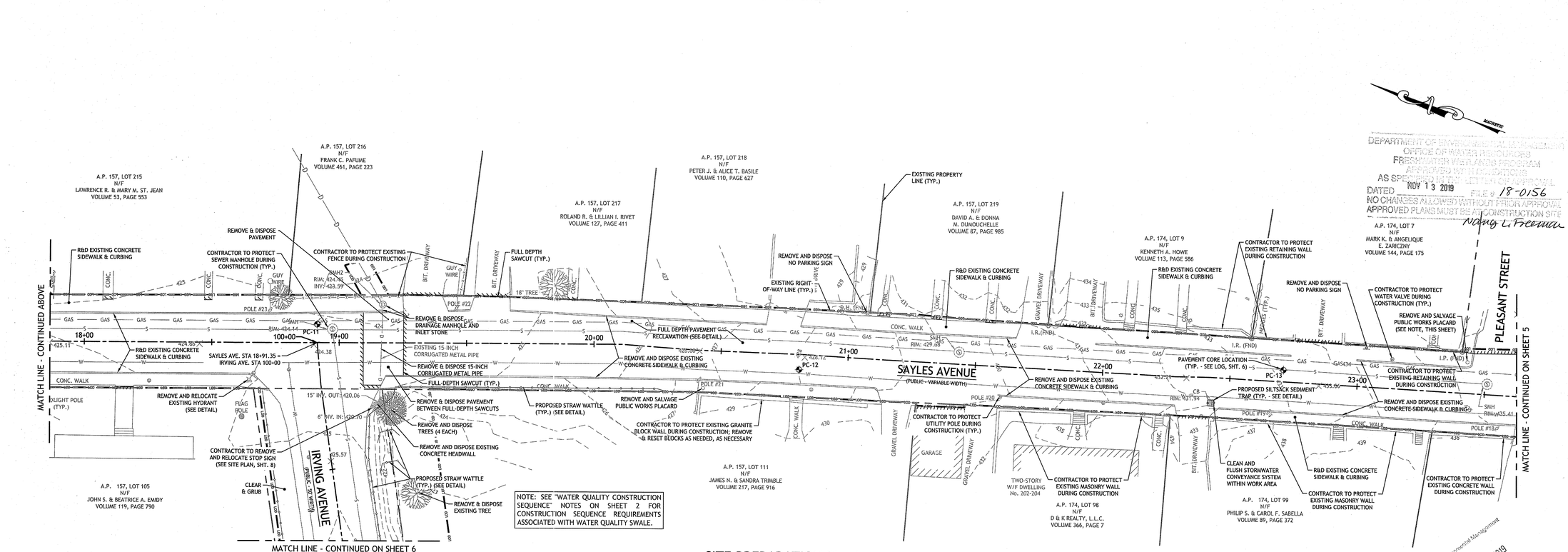


SITE PREPARATION PLAN
STATION 11+85 TO 17+85

SCALE: 1 INCH = 20 FEET



SITE PREPARATION PLAN
STATION 17+85 TO 23+60

SCALE: 1 INCH = 20 FEET

NOTE: CONTRACTOR TO COORDINATE WITH BURRILLVILLE DEPARTMENT OF PUBLIC WORKS REGARDING GRANITE CURB AND PUBLIC WORKS PLACARD STOCKPILE LOCATIONS.

NOTE: SEE "WATER QUALITY CONSTRUCTION SEQUENCE" NOTES ON SHEET 2 FOR CONSTRUCTION SEQUENCE REQUIREMENTS ASSOCIATED WITH WATER QUALITY SWALE.

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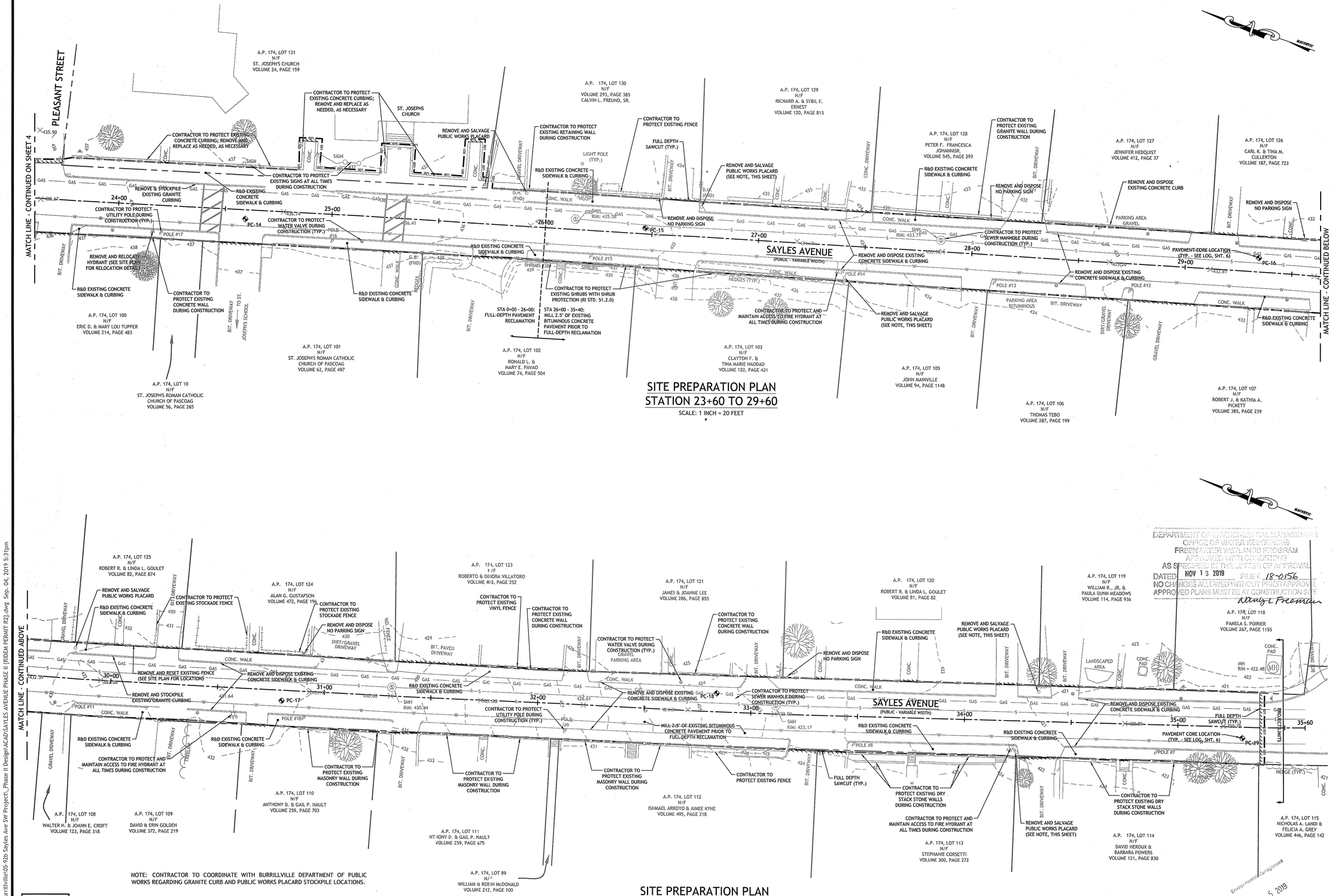
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
NOT FOR CONSTRUCTION

SITE PREPARATION PLAN II

SHEET 4 OF 14

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\CAD\SAYLES AVENUE PHASE II (RIDEN PERMIT R2).dwg Sep. 04, 2019 5:31pm



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JOE CASALI ENGINEERING, INC.
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DRAINAGE · WATER RESOURCES · PERMITTING
300 POST ROAD, WARWICK, RI 02888
(401) 944-1300 (401) 944-1313 FAX WWW.JOECASALI.COM

JOSEPH A. CASALI
No. 9250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9.4.19

ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

BURRILLVILLE R.I.

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

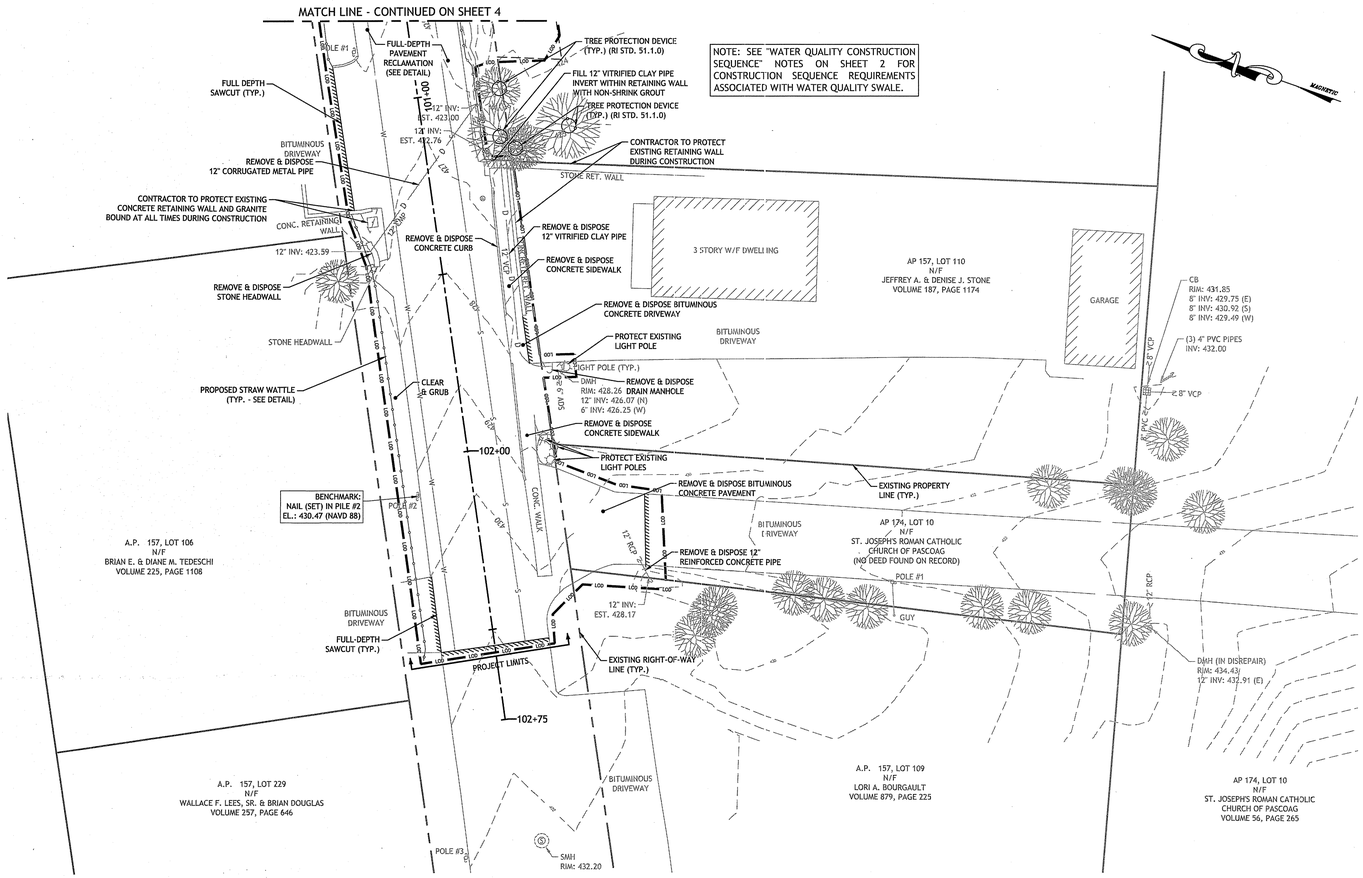
DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
NOT FOR CONSTRUCTION

SITE PREPARATION PLAN III

SHEET 5 OF 14

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II (RIDEM PERMIT R2).dwg Sep. 04, 2019 5:31pm



SITE PREPARATION PLAN
IRVING AVENUE

SCALE: 1 INCH = 20 FEET

SUMMARY OF PAVEMENT CORE RESULTS:

PC-1: (0-3"): ASPHALT
(3-13"): WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM); brown, 65% sand, 25% gravel, 10% nonplastic fines

PC-2: (0-3"): ASPHALT
(3-13") SILTY SAND (SM); brown, 70% sand, 20% nonplastic fines, 10% gravel

PC-3: (0-3"): ASPHALT
(3-13"): WELL GRADED SAND WITH SILT (SW-SM); light brown, 80% sand, 10% gravel, 10% nonplastic fines

PC-4: (0-4"): ASPHALT
(4-14"): WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM); brown, 70% sand, 20% gravel, 10% nonplastic fines

PC-5: (0-3"): ASPHALT
(3-9"): SILTY SAND (SP-SM); brown, 75 % sand, 15% nonplastic fines, 10% gravel

PC-6: (0-3"): ASPHALT
(3-21"): WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM); brown, 75% sand, 15% gravel, 10% nonplastic fines

PC-7: (0-2.5"): ASPHALT
(2.5-14.5"): SILTY SAND (SM); 80% sand, 15% nonplastic fines, 5% gravel

PC-8: (0-4"): ASPHALT
(4-7"): SILTY SAND WITH GRAVEL (SM); brown, 50% sand, 35 % gravel, 15% nonplastic fines
(7-13"): WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM); light brown, 75% sand, 15% gravel, 10% nonplastic fines

PC-9: (0-4"): ASPHALT
(4-7"): SILTY SAND WITH GRAVEL (SM); brown, 65% sand, 20% gravel, 15% nonplastic fines
(7-13"): SILTY SAND (SM); light brown, 70% sand, 15% nonplastic fines, 5% gravel

PC-10:(0-4.5"): ASPHALT
(4.5-7.5"): SILTY SAND WITH GRAVEL (SM); brown, 70% sand, 15% gravel, 15% nonplastic fines
(7.5-22.5"): SILTY SAND (SM); light brown, 75% sand, 15% nonplastic fines, 10% gravel

PC-11:(0-3"): ASPHALT
(3-8"): WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM); brown, 70% sand, 20% gravel, 10% nonplastic fines
(8-16"): SILTY SAND WITH GRAVEL (SM); light brown, 55% sand, 30% gravel, 15% nonplastic fines

PC-12:(0-3.5"): ASPHALT
(3.5-6.5"): WELL GRADED SAND WITH SILT AND GRAVEL (SW-SM); brown, 65% sand, 25% gravel, 10% nonplastic fines
(6.5-16.5"): POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); light brown, 75% sand, 15% gravel, 10% nonplastic fines

PC-13:(0-3"): ASPHALT
(3-6"): WELL GRADED SAND WITH SILT (SW-SM); brown, 80% sand, 10% gravel, 10% nonplastic fines
(6-13"): SILTY SAND (SM); light brown, 75% sand, 15% nonplastic fines, 10% gravel

PC-14:(0-5"): ASPHALT
(5-8"): WELL GRADED SAND WITH SILT (SW-SM); brown, 80% sand, 10% gravel, 10% nonplastic fines
(8-21"): POORLY GRADED SAND WITH SILT (SP-SM); light brown, 80% sand, 10% gravel, 10% nonplastic fines

PC-15:(0-7"): ASPHALT
(7-15"): SILTY SAND (SM); light brown, 75% sand, 15% nonplastic fines, 10% gravel

PC-16:(0-6"): ASPHALT
(6-15"): POORLY GRADED SAND (SP); brown, 90% sand, 5% gravel, 5% nonplastic fines

PC-17:(0-7"): ASPHALT
(7-16"): POORLY GRADED SAND WITH SILT (SP-SM); brown, 80% sand, 10% gravel, 10% nonplastic fines

PC-18:(0-8"): ASPHALT
(8-20"): POORLY GRADED SAND WITH SILT (SP-SM); brown, 85% sand, 10% nonplastic fines, 5% gravel

PC-19:(0-6"): ASPHALT
(6-10"): POORLY GRADED SAND (SP); brown, 85% sand, 10% gravel, 5% nonplastic fines
(10-22"): SILTY SAND (SM); brown, 80% sand, 15% nonplastic fines, 5% gravel

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE ATTACHED LETTER
DATED NOV 13 2019 FILE # 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

Environmental Management
SEP - 5 2019
Office of Water Resources

1-888-DIG-SAFE
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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 ANY EXCAVATION CALL DIGSAFE AT:1-888-DIG-SAFE
1-888-344-7233

JCE
JOE CASALI ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN
300 CENTER ST. - GUILFORD, CT 06437
(401) 944-1300 (401) 944-1313 FAX WWW.JOECASALI.COM

JOSEPH A. CASALI
No. 7250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9.4.19

ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

BURRILLVILLE R.I.

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
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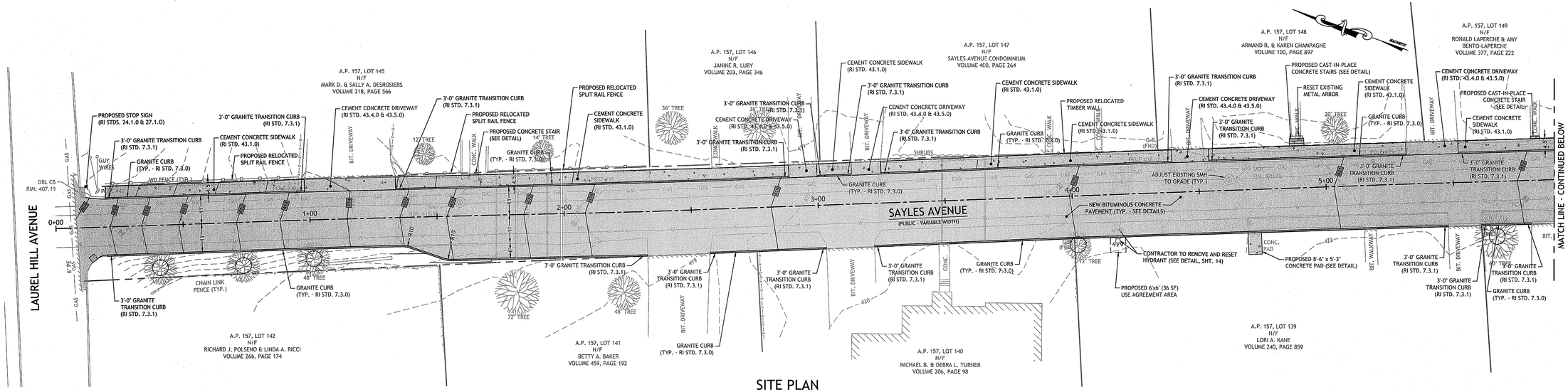
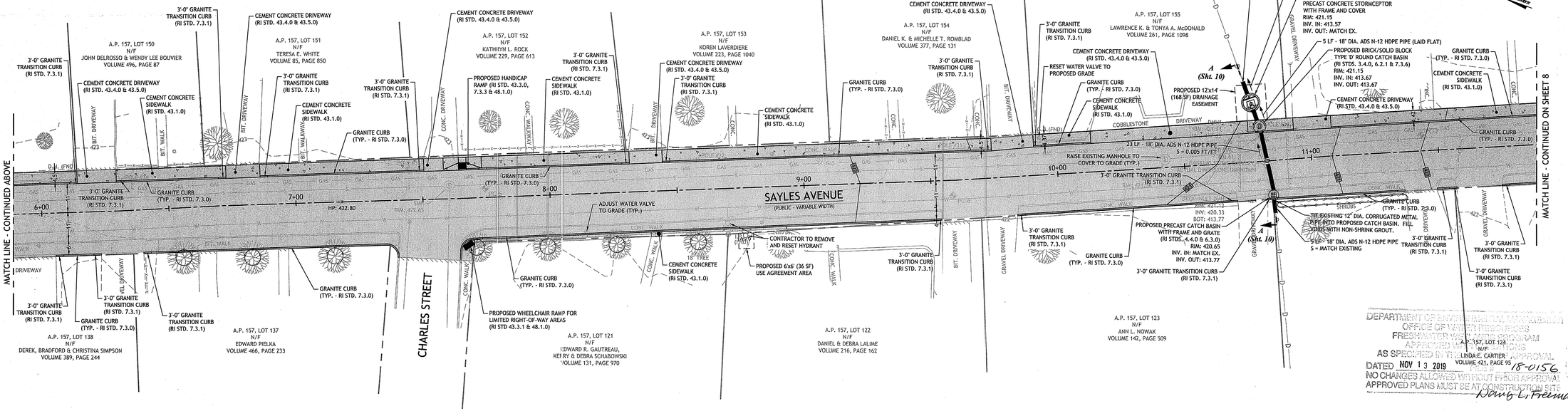
SITE PREPARATION PLAN IV

SHEET 6 OF 14

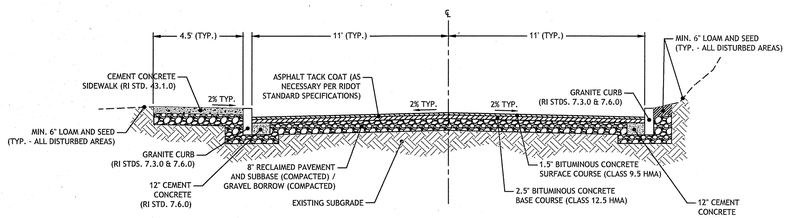
Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II [RIDEM PERMIT R2].dwg Sep. 04, 2019 5:31pm



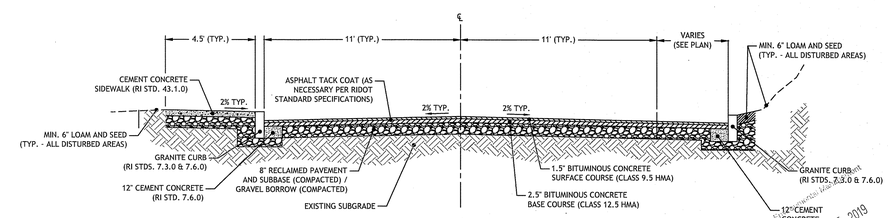
SITE PLAN
STATION 0+00 TO 5+85
SCALE: 1 INCH = 20 FEET



SITE PLAN
STATION 5+85 TO 11+85
SCALE: 1 INCH = 20 FEET



TYPICAL ROADWAY SECTION
STATION 0+00 TO 1+45
SCALE: 1 INCH = 4 FEET



TYPICAL ROADWAY SECTION
STATION 1+45 TO 11+85
SCALE: 1 INCH = 4 FEET

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN LETTER OF APPROVAL
DATED NOV 13 2019
18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Doug L. Fremaux
SEP 5 2019
Office of Water Resources

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JOSEPH A. CASALI
No. 9250
REGISTERED PROFESSIONAL ENGINEER · CIVIL
9.4.19

ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

BURRILLVILLE R.I.

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

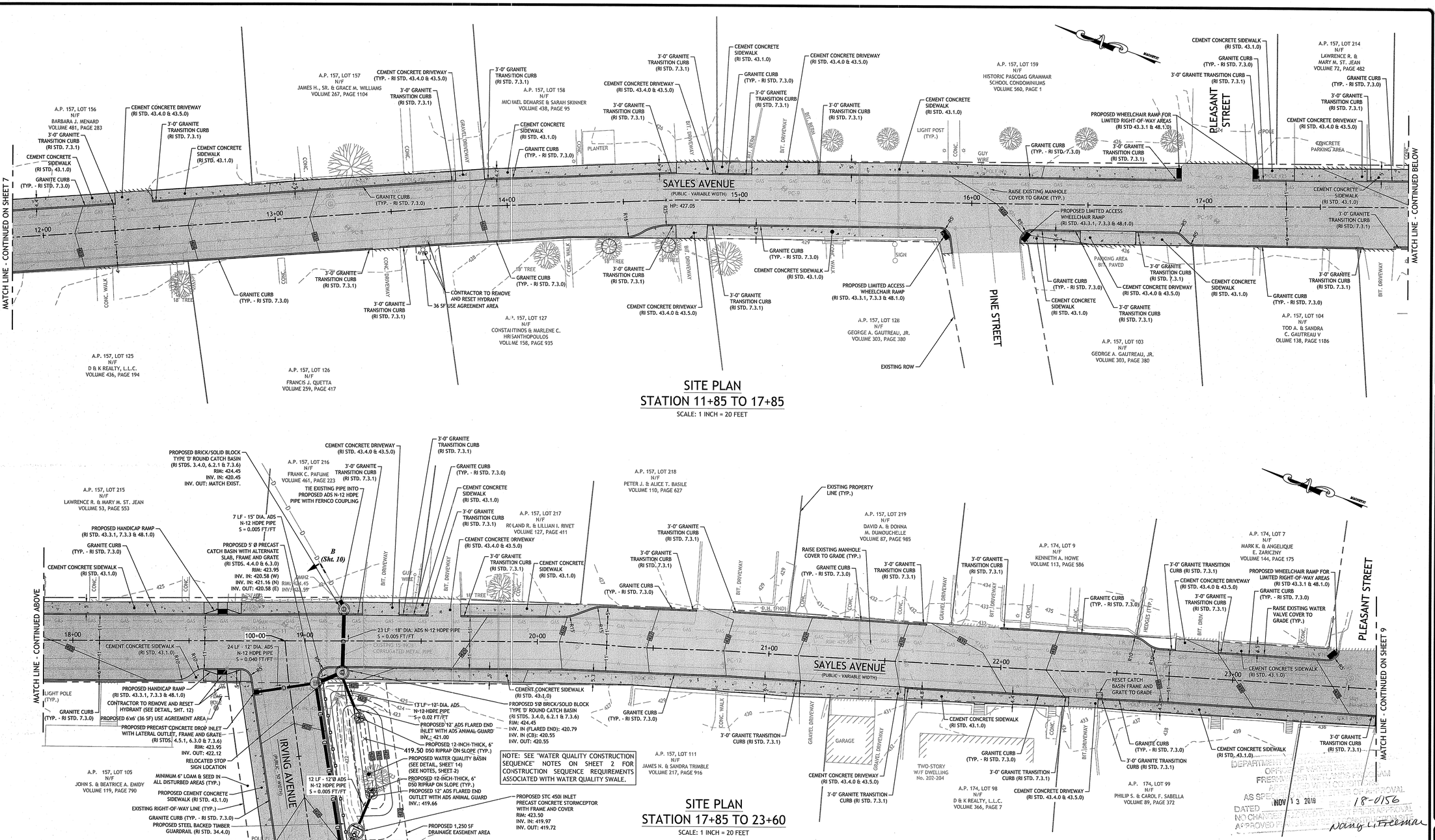
DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
NOT FOR CONSTRUCTION

SITE PLAN I

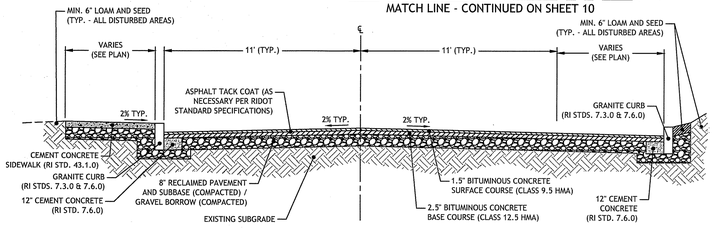
SHEET 7 OF 14

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II (RIDEM PERMIT R2).dwg Sep. 04, 2019 5:31pm

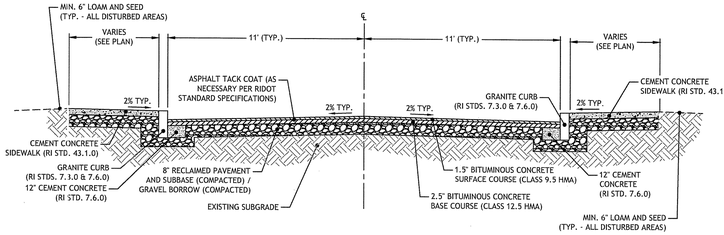


SITE PLAN
STATION 11+85 TO 17+85
SCALE: 1 INCH = 20 FEET

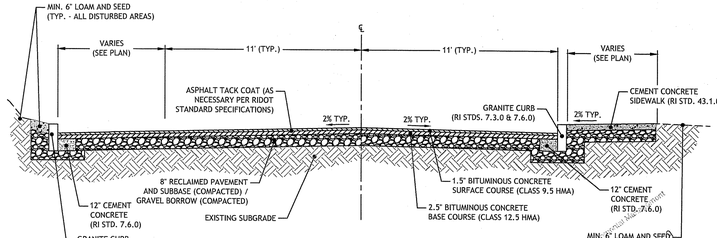
SITE PLAN
STATION 17+85 TO 23+60
SCALE: 1 INCH = 20 FEET



TYPICAL ROADWAY SECTION
STATION 11+85 TO 14+60 & 16+92 TO 18+50
SCALE: 1 INCH = 4 FEET



TYPICAL ROADWAY SECTION
STATION 14+60 TO 16+92, 18+50 TO 20+19 & 22+63 TO 23+60
SCALE: 1 INCH = 4 FEET



TYPICAL ROADWAY SECTION
STATION 20+19 TO 22+63
SCALE: 1 INCH = 4 FEET

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JOSEPH A. CASALI
No. 9250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9.4.19

ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

REVISIONS:

NO.	DATE:	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
NOT FOR CONSTRUCTION

SITE PLAN II

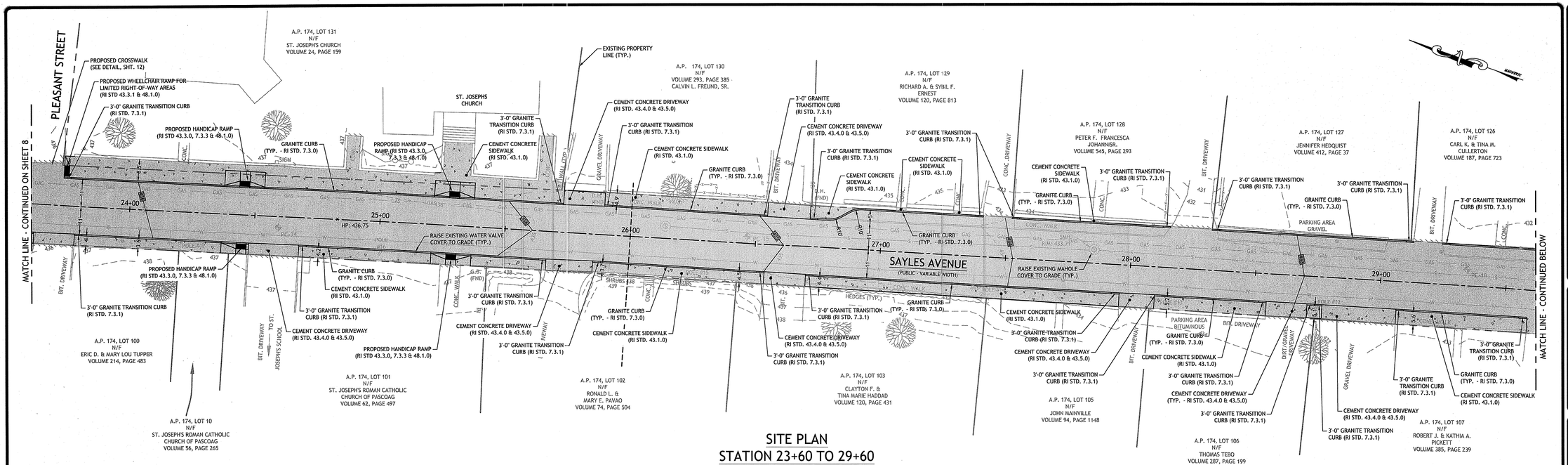
SHEET 8 OF 14

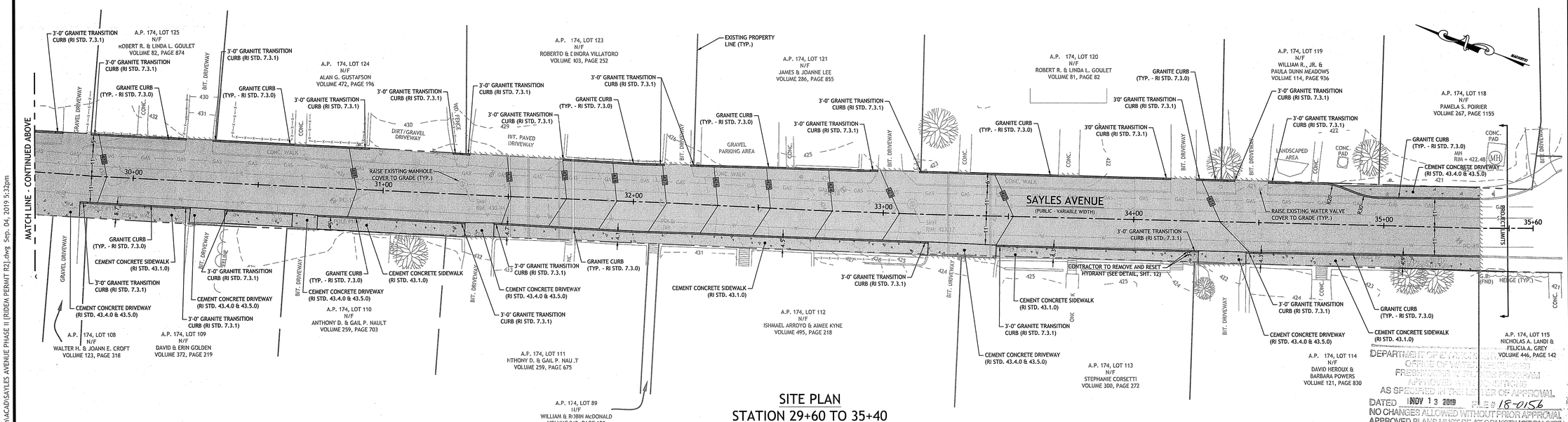
BURRILLVILLE R.I.

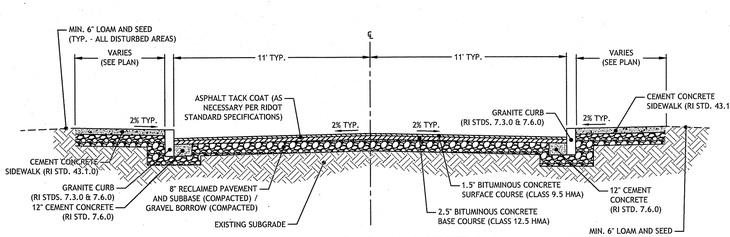
DEPARTMENT OF PLANNING & ZONING
OFFICE OF THE ZONING OFFICIAL
FRESH POND LANE
BURRILLVILLE, RHODE ISLAND
AS SPECIFIED HEREIN, THIS IS A CERTIFICATE OF APPROVAL
DATED NOV 13 2018 18-0156
NO CHANGES SHALL BE MADE TO THIS APPROVED PLAN WITHOUT WRITTEN APPROVAL
APPROVED
Nancy L. Freeman

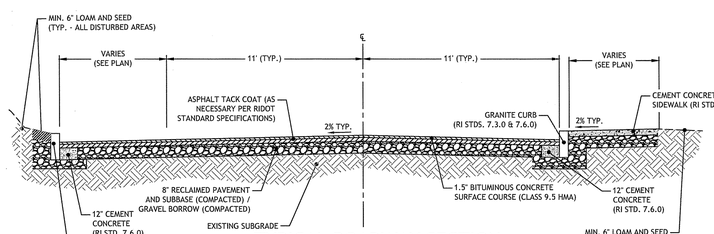
SEP 2019
Office of Water Resources

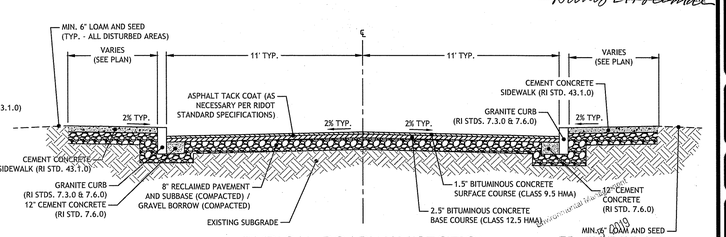
Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II (RIDEM PERMIT R2).dwg Sep. 04, 2019 5:31pm











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9.4.19

ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

BURRILLVILLE R.I.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 13 2019 FILE # 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Friedman
Chief, Office of Water Resources

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
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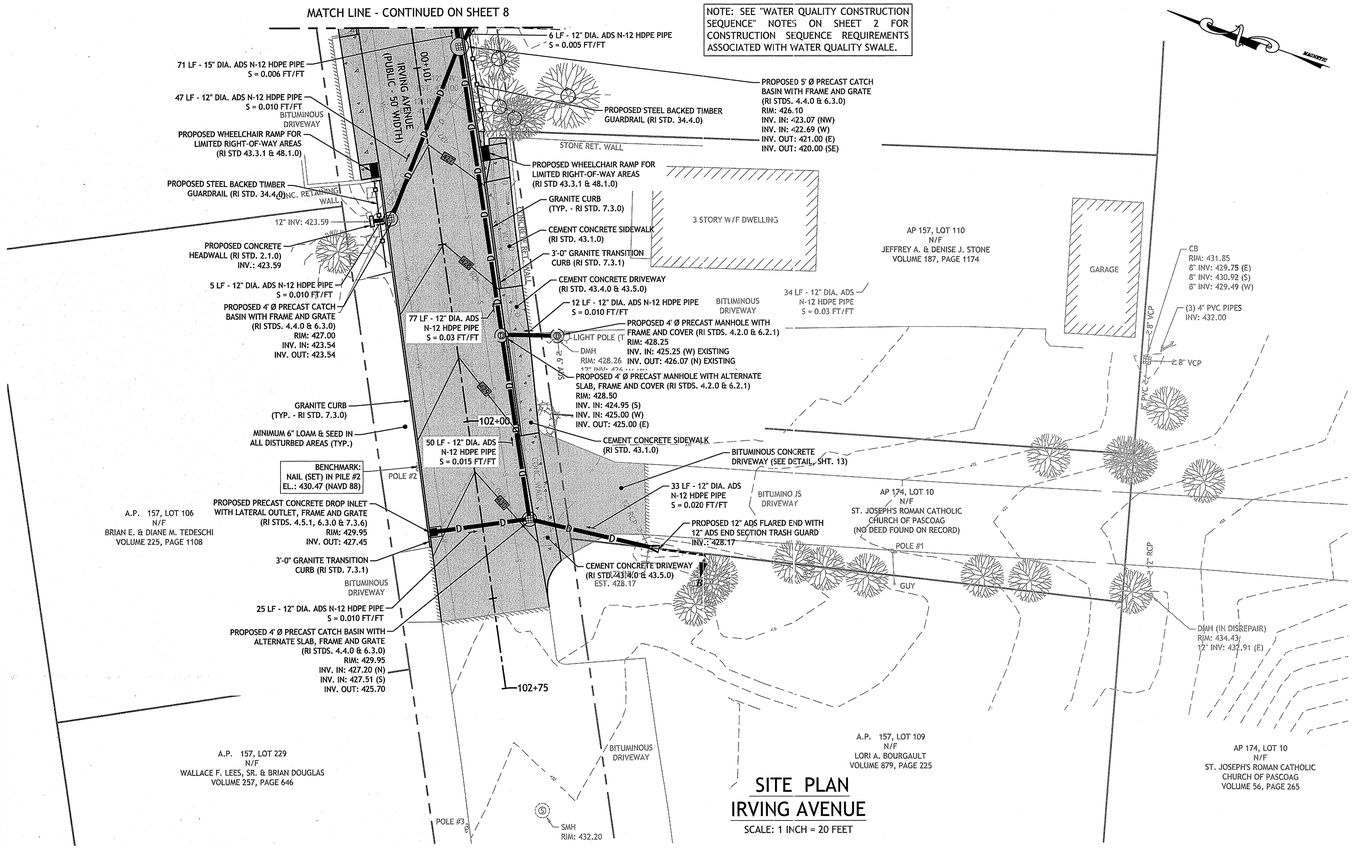
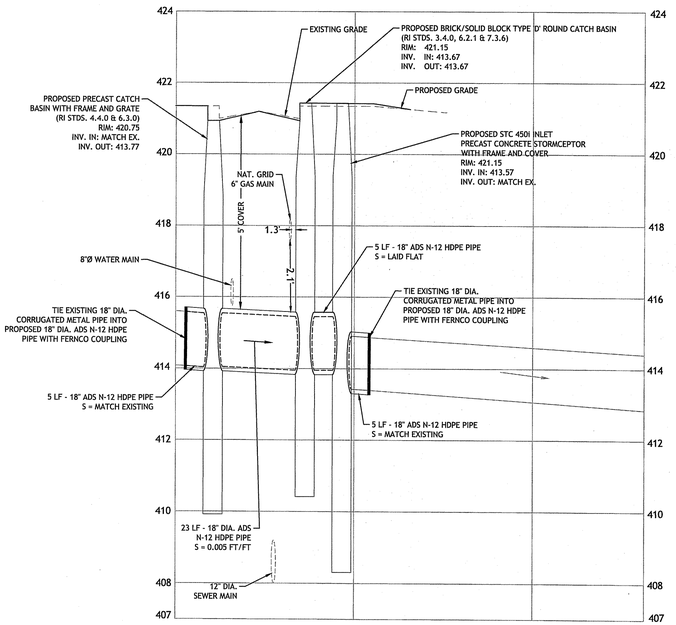
SITE PLAN III

SHEET 9 OF 14

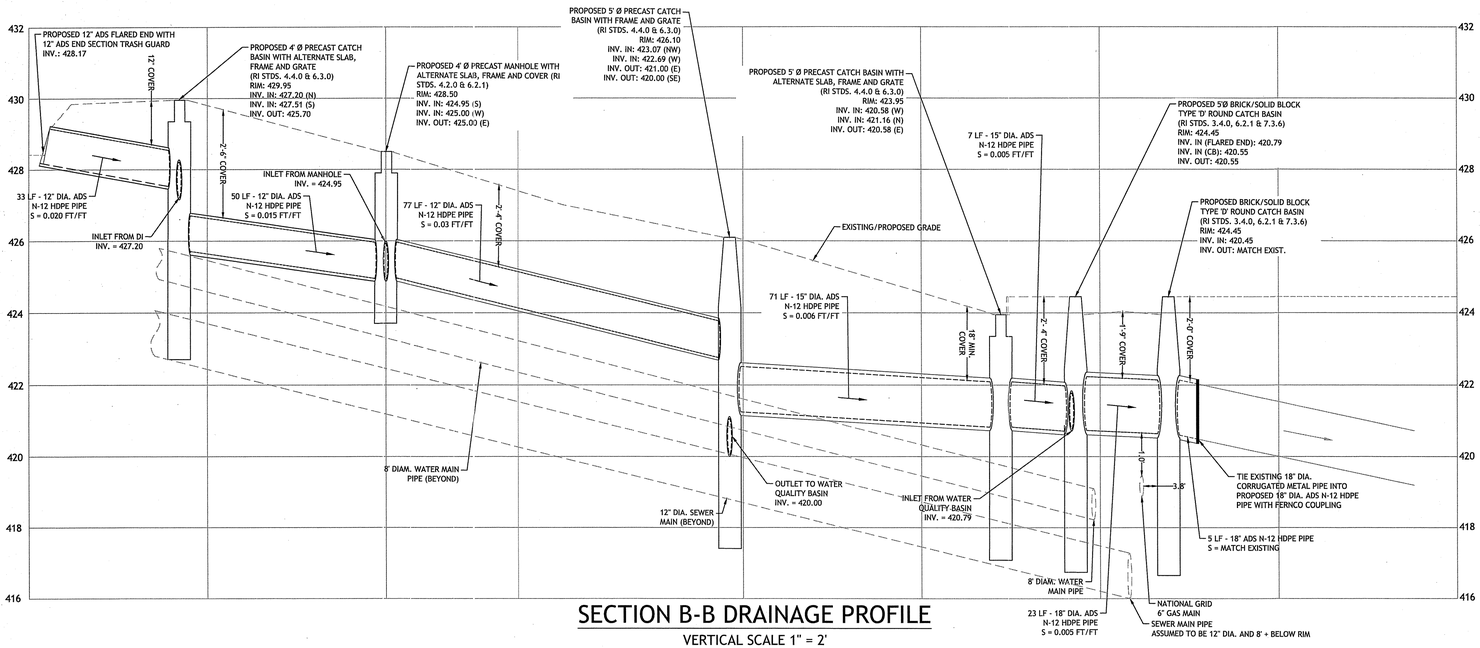
Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\CAD\SAYLES AVENUE PHASE II (RIDEA PERMIT R2).dwg Sep. 04, 2019 5:32pm



SITE PLAN
IRVING AVENUE
SCALE: 1 INCH = 20 FEET



SECTION A-A DRAINAGE PROFILE
VERTICAL SCALE 1" = 2'
HORIZONTAL SCALE 1" = 20'



SECTION B-B DRAINAGE PROFILE
VERTICAL SCALE 1" = 2'
HORIZONTAL SCALE 1" = 20'

JCE
JOE CASALI ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
ENVIRONMENTAL - PERMITTING - PLANNING
300 POST ROAD, WARWICK, RI 02888
DRAINAGE - WATER - SEWER - ROADS
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ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
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BURRILLVILLE R.I.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WETLANDS BOUNDARY
AS SPECIFIED IN LETTER OF APPROVAL
DATED NOV 13 2019 FILE # 18-0156
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L Friemann

Environmental Management
SEP - 5 2019
Office of Water Resources

REVISIONS:		
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2	09/06/19	RIDEM RTC

DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

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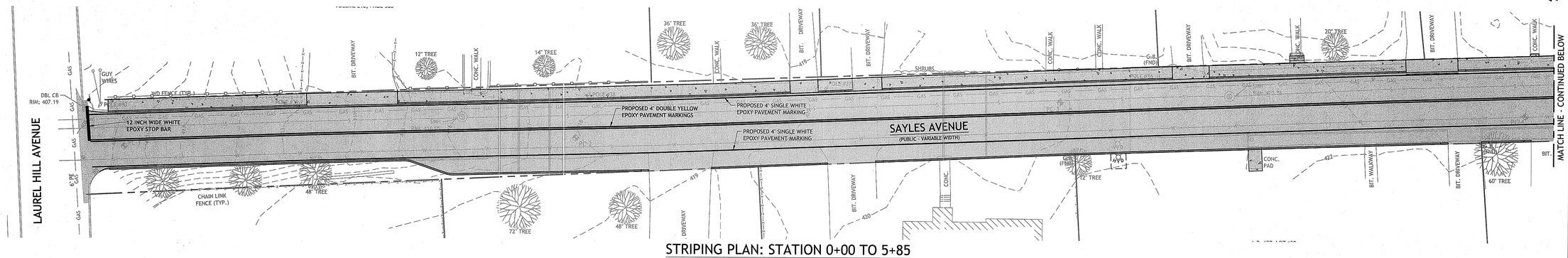
SITE PLAN IV AND DRAINAGE PROFILES

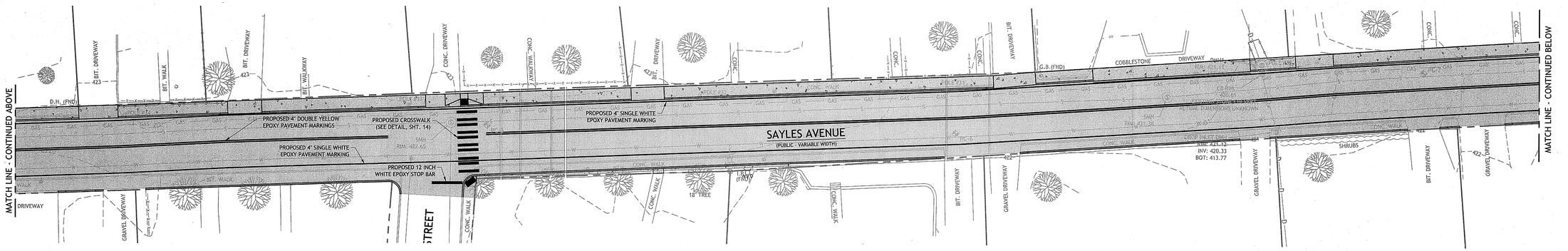
SHEET 10 OF 14

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II [RIDEM PERMIT R2].dwg Sep. 04, 2019 5:32pm



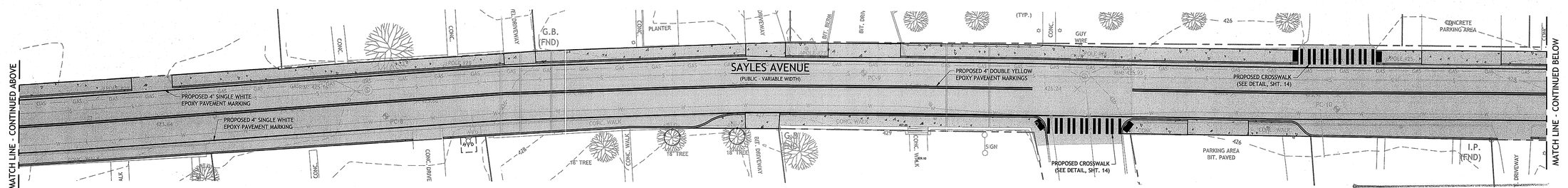
STRIPING PLAN: STATION 0+00 TO 5+85

SCALE: 1 INCH = 20 FEET



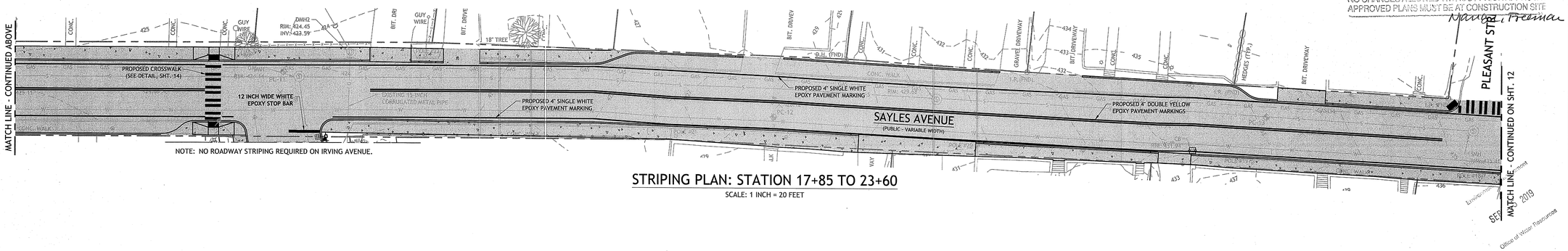
STRIPING PLAN: STATION 5+85 TO 11+85

SCALE: 1 INCH = 20 FEET



STRIPING PLAN: STATION 11+85 TO 17+85

SCALE: 1 INCH = 20 FEET



NOTE: NO ROADWAY STRIPING REQUIRED ON IRVING AVENUE.

STRIPING PLAN: STATION 17+85 TO 23+60

SCALE: 1 INCH = 20 FEET

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 13 2019 FILE # 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy A. Freeman
SEP 2019
Office of Water Resources

JCE
JOE CASALI ENGINEERING, INC.
CIVIL · LAND DEVELOPMENT · SITE PLANNING
DRAINAGE · WETLANDS · ISDS · TRAFFIC · FLOODPLAIN
300 POST ROAD, WARWICK, RI 02888
(401) 944-1300 (401)944-1313 FAX WWW.JOECASALI.COM

JOSEPH A. CASALI
No. 7250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9.4.19

ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

BURRILLVILLE R.I.

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

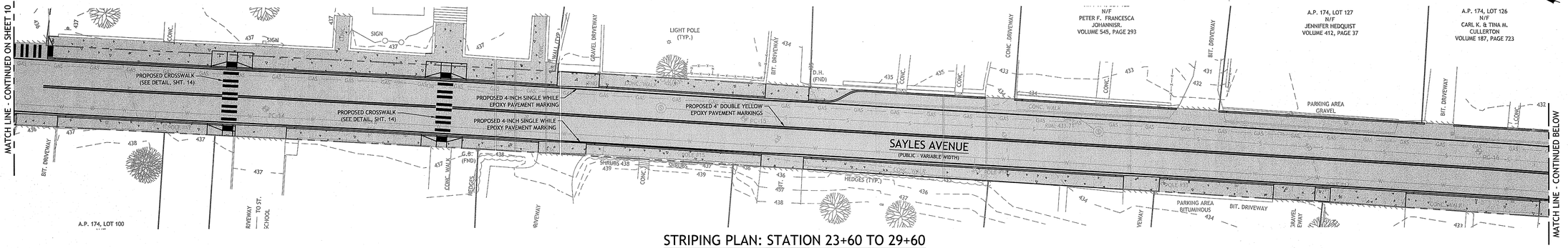
DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
NOT FOR CONSTRUCTION

STRIPING PLAN I

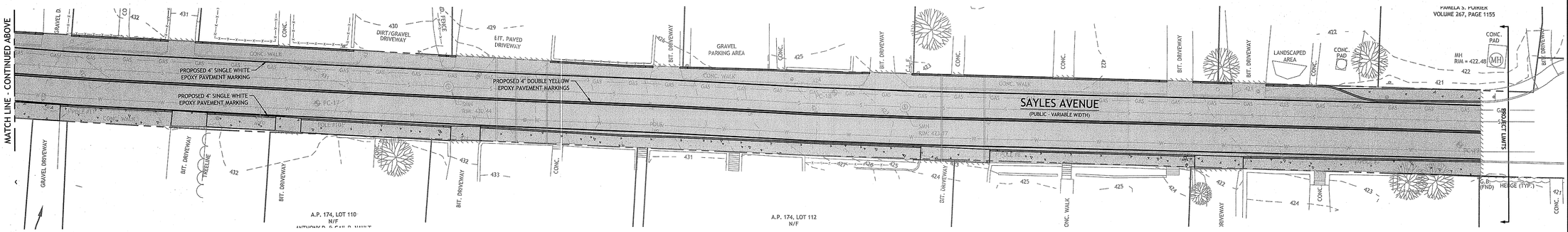
SHEET 11 OF 14

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II (RIDEM PERMIT R2).dwg Sep. 04, 2019 5:32pm



STRIPING PLAN: STATION 23+60 TO 29+60

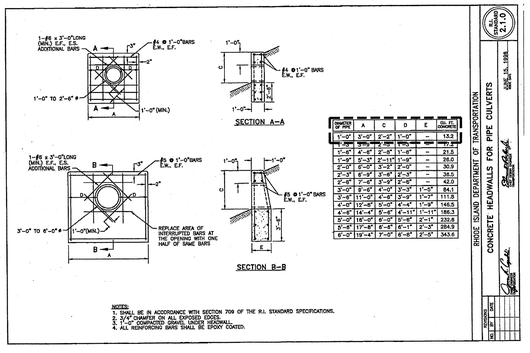
SCALE: 1 INCH = 20 FEET

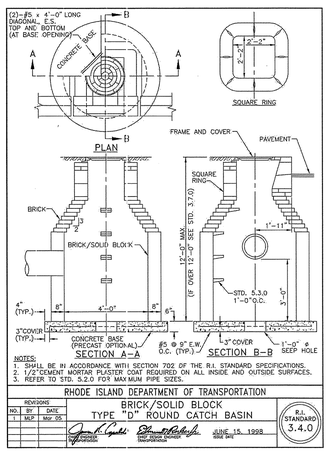


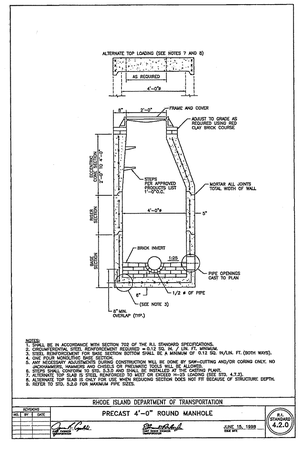
STRIPING PLAN: STATION 29+60 TO 35+40

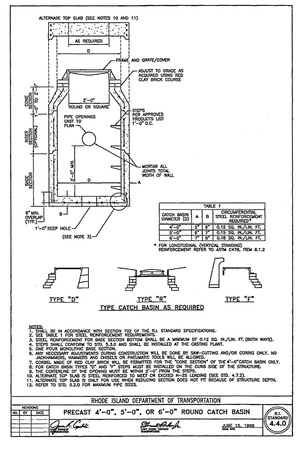
SCALE: 1 INCH = 20 FEET

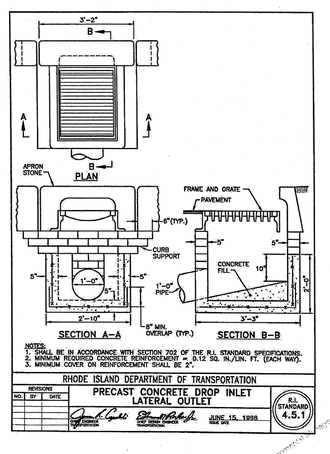
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 13 2019 FILE # 18-0156
NO CHANGES SHALL BE MADE WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L Freeman











Environmental Management
SEP - 5 2019
Office of Water Resources

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JOSEPH A. CASALI
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ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

BURRILLVILLE R.I.

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

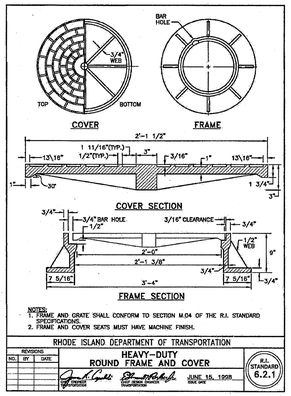
DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY
NOT FOR CONSTRUCTION

STRIPING PLAN II AND RI STANDARD DETAILS

SHEET 12 OF 14

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II (RIDEM PERMIT R2).dwg Sep. 04, 2019 5:32pm

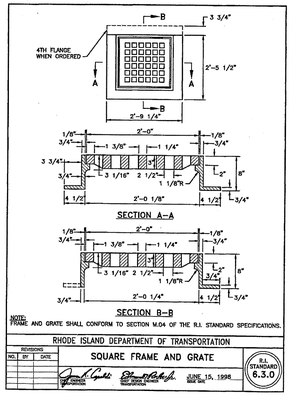


RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

HEAVY-DUTY ROUND FRAME AND COVER — R.I. STANDARD 6.2.1

JUNE 15, 1998



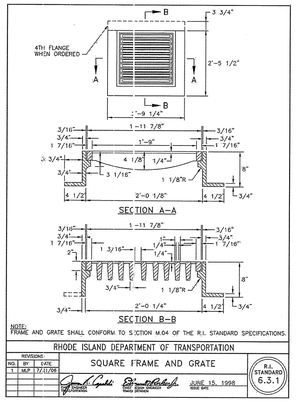
NOTE: FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

SQUARE FRAME AND GRATE — R.I. STANDARD 6.3.0

JUNE 15, 1998



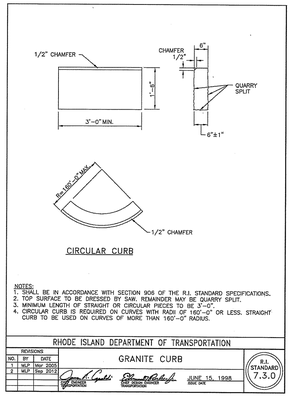
NOTE: FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	12/12/00

SQUARE FRAME AND GRATE — R.I. STANDARD 6.3.1

JUNE 15, 1998



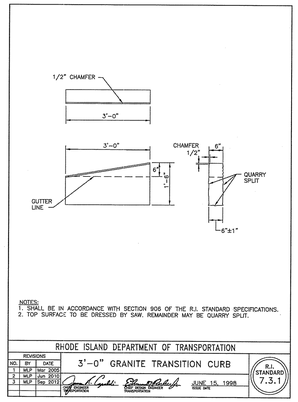
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.
3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2000
2	MLP	Feb 2013

GRANITE CURB — R.I. STANDARD 7.3.0

JUNE 15, 1998



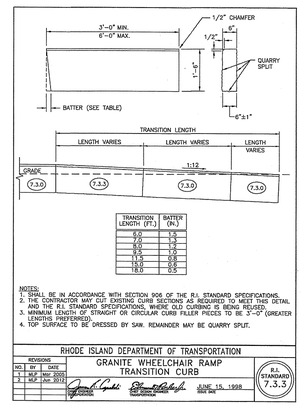
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 2000
2	MLP	Feb 2013

3'-0" GRANITE TRANSITION CURB — R.I. STANDARD 7.3.1

JUNE 15, 1998



TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.5	1.2
9.0	1.0
11.3	0.8
15.0	0.6
18.0	0.5

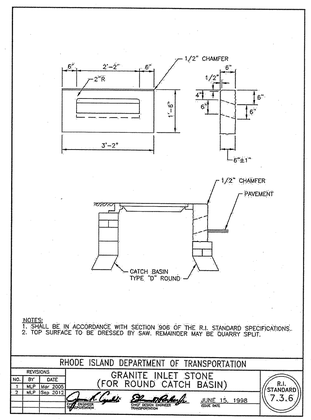
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
4. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Nov 2000
2	MLP	Jan 2012

GRANITE WHEELCHAIR RAMP TRANSITION CURB — R.I. STANDARD 7.3.3

JUNE 15, 1998



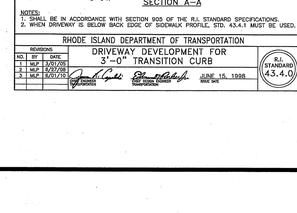
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS..
2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Nov 2000
2	MLP	Mar 2012

GRANITE INLET STONE (FOR ROUND CATCH BASIN) — R.I. STANDARD 7.3.6

JUNE 15, 1998



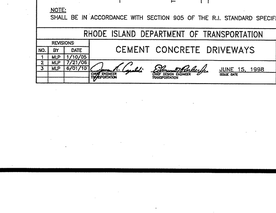
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS SET AFTER THE BASE AND/OR BINDER COURSES ARE IN PLACE, OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE BASE COURSE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Mar 98

CURB SETTING DETAIL — R.I. STANDARD 7.6.0

JUNE 15, 1998



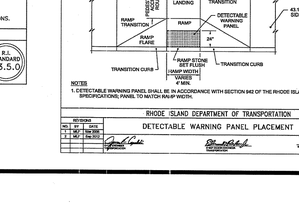
NOTES:
1. SIGNS SHALL BE IN ACCORDANCE WITH SECTION 718 OF THE R.I. STANDARD SPECIFICATIONS.
2. SIGN SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH AASHTO SPECIFICATIONS FOR A 10-YEAR MEAN WIND RECURRENCE INTERVAL.
3. FOR INSTALLATION IN ENGLISH OR STANDARD SOCKETED SIGN SIZE POST ANCHOR TO EQUIVALENT DEPTH SO THAT THE HOLE FILL MATCH TO SIGN POST ABOVE GROUND SIZE THE BOLT CONNECTING INSERT SIZE POST AND BOLT IN PLACE.
4. FOR INSTALLATION IN ENGLISH OR STANDARD SOCKETED SIGN SIZE POST ANCHOR TO EQUIVALENT DEPTH SO THAT THE HOLE FILL MATCH TO SIGN POST ABOVE GROUND SIZE THE BOLT CONNECTING INSERT SIZE POST AND BOLT IN PLACE.
5. FOR INSTALLATION IN CONCRETE SIDEWALK, SIGN POST ANCHOR SHALL BE SET 24" (MIN.) FROM EDGE OF CURB OR EDGE OF SIGN WHICHEVER IS GREATER.
6. SIGN POST SELECTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. BREAKAWAY SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET.
8. ALL BREAKAWAY SIGNS CONFORM TO ASTM-A36M, FY= 36 KSI. THE CHOICE DESIGN OF THE POST SHALL BE ASSUME TUBE FORMED OF 12 GAUGE (.105") (2.5 SQUARE COLD-FORMED SQUARE TUBE SHOWN HAVE BEEN DESIGNED FOR A 10-YEAR MEAN WIND RECURRENCE INTERVAL AND ARE SUITABLE FOR USE IN ALL WIND ZONES IN RHODE ISLAND.
9. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER ASTM-A153.
10. ALL BOLTS SHALL BE NOT LESS THAN 20 DIA. FT., BOTH TO STEEL (0.13, 39.4.1, 39.5.0, 39.5.1, 39.5.2, 39.5.3, 39.5.5, 39.4.6, 39.4.1, 39.4.2 AND 39.4.3
11. ALL BOLTS SHALL BE NOT LESS THAN 20 DIA. FT., BOTH TO STEEL (0.13, 39.4.1, 39.5.0, 39.5.1, 39.5.2, 39.5.3, 39.5.5, 39.4.6, 39.4.1, 39.4.2 AND 39.4.3

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	7/07/08
2	MLP	6/07/10
3	MLP	6/07/10

SIGN POST SELECTION AND INSTALLATION DETAILS SQUARE POST SIGNS UP TO 6'-0"Wx4'-0"H — R.I. STANDARD 34.1.0

JUNE 15, 1998

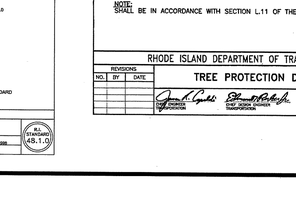


RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

REGULATORY SIGNS — R.I. STANDARD 27.1.0

JUNE 15, 1998

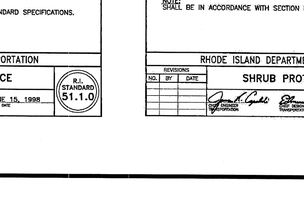


RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	3/07/08

STEEL BACKED TIMBER GUARDRAIL — R.I. STANDARD 34.4.0

JUNE 15, 1998



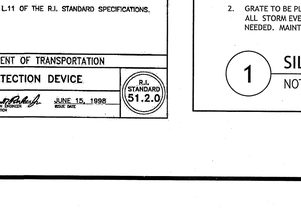
NOTES
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	6/07/10

CEMENT CONCRETE SIDEWALK — R.I. STANDARD 43.1.0

JUNE 15, 1998



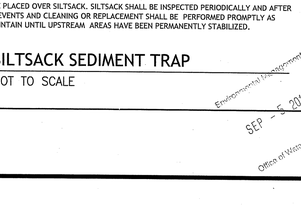
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS DETAIL IS TO BE USED ONLY WHEN STATE RIGHT-OF-WAY IS LIMITED TO BACK OF SIDEWALK, AND SIDEWALK IS NARROW WITH NO PEDESTRIAN TRAFFIC FROM SIDE STREET.
3. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, IF POSSIBLE, THE OBSTRUCTION SHALL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
4. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
5. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
6. LOCATION OF WHEELCHAIR RAMPS IS AT DISCRETION OF ENGINEER.
7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED WITHIN THE RAMP AREA.
8. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0"(GREATER LENGTHS PREFERRED).
11. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

WHEELCHAIR RAMP — R.I. STANDARD 43.3.0

JUNE 15, 1998



ROADWAY/ROAD GRADE	T
0.00	6.0
0.02	6.0
0.03	8.0
0.04	9.5
0.04	11.5
0.05	15.0

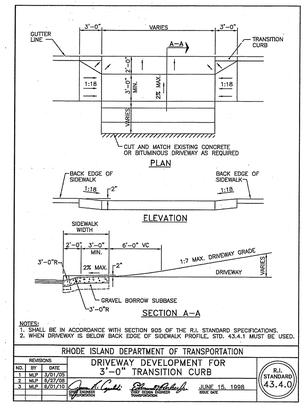
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS DETAIL IS TO BE USED ONLY WHEN STATE RIGHT-OF-WAY IS LIMITED TO BACK OF SIDEWALK, AND SIDEWALK IS NARROW WITH NO PEDESTRIAN TRAFFIC FROM SIDE STREET.
3. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, IF POSSIBLE, THE OBSTRUCTION SHALL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
4. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
5. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
6. LOCATION OF WHEELCHAIR RAMPS IS AT DISCRETION OF ENGINEER.
7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED WITHIN THE RAMP AREA.
8. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0"(GREATER LENGTHS PREFERRED).
11. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Dec 2000
2	MLP	Mar 2012

WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS — R.I. STANDARD 43.3.1

JUNE 15, 1998



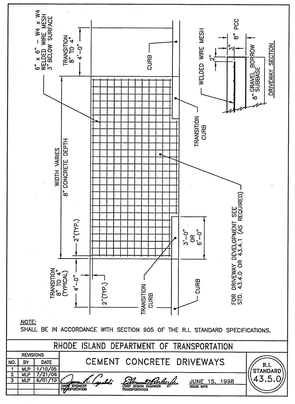
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. WHEN DRIVEWAY IS BELOW BACK EDGE OF SIDEWALK PROFILE, STD. 43.4.1 MUST BE USED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	3/07/08
2	MLP	6/07/10
3	MLP	6/07/10

DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB — R.I. STANDARD 43.4.0

JUNE 15, 1998



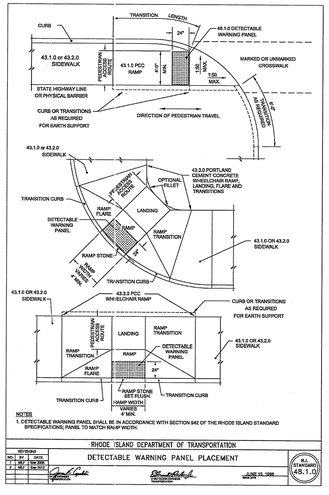
NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	6/07/10
2	MLP	6/07/10

CEMENT CONCRETE DRIVEWAYS — R.I. STANDARD 43.5.0

JUNE 15, 1998



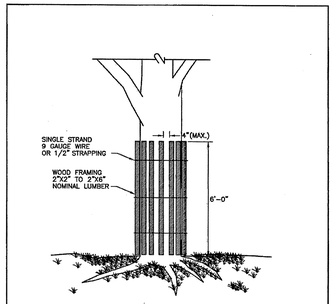
NOTES
1. DETECTABLE WARNING PANEL SHALL BE IN ACCORDANCE WITH SECTION 942 OF THE RHODE ISLAND STANDARD SPECIFICATIONS. PANEL TO MATCH RAMP WIDTH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE
1	MLP	Feb 2013
2	MLP	Mar 2013

DETECTABLE WARNING PANEL PLACEMENT — R.I. STANDARD 48.1.0

JUNE 15, 1998



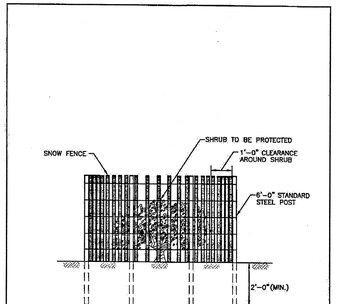
NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

TREE PROTECTION DEVICE — R.I. STANDARD 51.1.0

JUNE 15, 1998



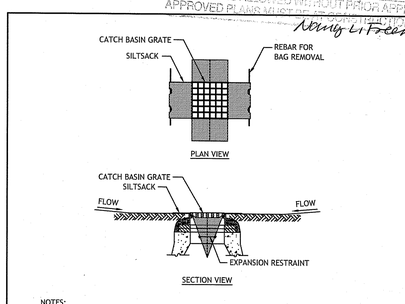
NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

SHRUB PROTECTION DEVICE — R.I. STANDARD 51.2.0

JUNE 15, 1998



NOTES:
1. INSTALL SILTSACK CATCH BASINS AS SHOWN ON THE SITE PREPARATION PLANS BEFORE COMMENCING WORK IN PAVED AREAS.
2. GRATE TO BE PLACED OVER SILTSACK. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

1 SILTSACK SEDIMENT TRAP
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE TEXT OF APPROVAL
DATED NOV 13 2019 FILE # 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE ON SITE DURING CONSTRUCTION
Wendy L. Freeman
Environmental Scientist
SEP – 5 2019
Office of Water Resources

JCE
JOE CASALI ENGINEERING, INC.
CIVIL • TRAFFIC • TRANSPORTATION
DRAINAGE • WETLANDS • ISDS • TRAFFIC SIGNAL DESIGN
300 POST ROAD, WARWICK, RI 02888
(401)944-1300 (401)944-1313 FAX WWW.JOECASALI.COM

JOSEPH A. CASALI
No. 7250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9.4.19

ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(2100 NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

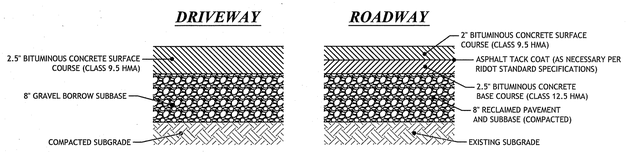
DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

PRELIMINARY NOT FOR CONSTRUCTION

RHODE ISLAND STANDARD DETAILS

SHEET 13 OF 14

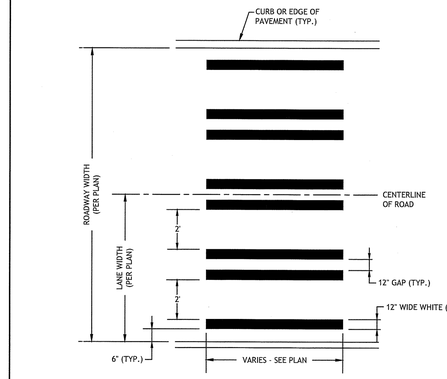
Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II [RIDEM PERMIT R2].dwg, Sep. 04, 2019 5:32pm



NOTE:

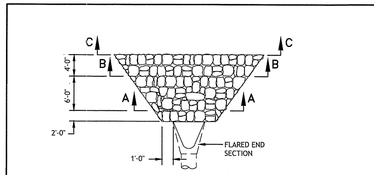
1. IF UNSUITABLE MATERIALS ARE ENCOUNTERED AT SUBGRADE ELEVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE DEPTH OF UNSUITABLE MATERIAL TO BE REMOVED WILL BE DETERMINED IN THE FIELD. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE THE UNSUITABLE MATERIALS AND REPLACE WITH SUITABLE MATERIAL APPROVED BY THE ENGINEER.

2 BITUMINOUS CONCRETE PAVEMENT
NOT TO SCALE



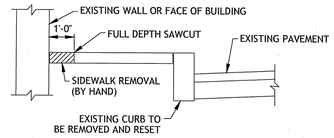
1. TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6 INCH LINES) WILL BE ACCEPTED.
2. CROSSWALK SIDE SLOPE SHALL NOT EXCEED 1.5%.
3. PAVEMENT MARKINGS TO BE PLACED TO AVOID WHEEL PATHS.
4. PAVEMENT MARKINGS TO BE WHITE EPOXY PAINT

3 CONTINTENTAL CROSSWALK DETAIL
NOT TO SCALE



NOTES:
1. CLASS OF RIP-RAP AND BEDDING TO BE SPECIFIED IN CONTRACT DOCUMENTS.
2. DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
3. UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.

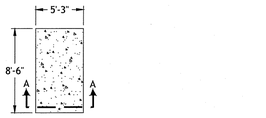
4 ROCK FILLED RIP-RAP AT FLARED END SECTIONS
NOT TO SCALE



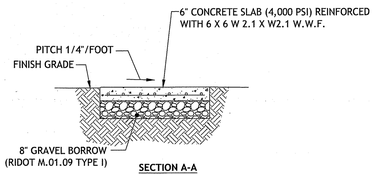
NOTES:

1. IN AREAS WHERE SIDEWALKS ARE TO BE REMOVED IN FRONT OF EXISTING WALLS OR BUILDINGS, THE CONTRACTOR SHALL SAWCUT ONE (1) FOOT (MAXIMUM) IN FRONT OF THE WALL/BUILDING AND REMOVE THE SIDEWALK STRUCTURE BY HAND.
2. IN THE EVENT THAT THE EXISTING SIDEWALK IS A STRUCTURAL ELEMENT OF THE WALL/BUILDING, THE EXISTING SIDEWALK IN FRONT OF THESE STRUCTURES WILL REMAIN IN-PLACE AND A NEW SIDEWALK CONSTRUCTED TO MATCH THE EXISTING SECTION.
3. ANY DAMAGE TO THE WALL OR BUILDING BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. FULL DEPTH SAWCUT SHALL BE COMPLETED WITH A CIRCULAR CUT.

5 SIDEWALK REMOVAL DETAIL - ABUTTING EXISTING WALL OR FACE OF BUILDING
NOT TO SCALE

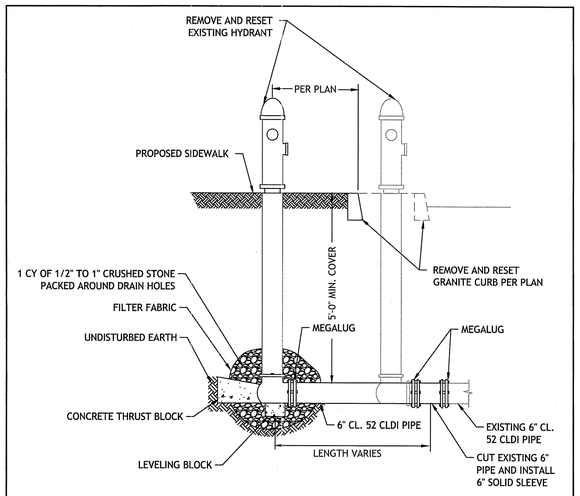


PLAN VIEW

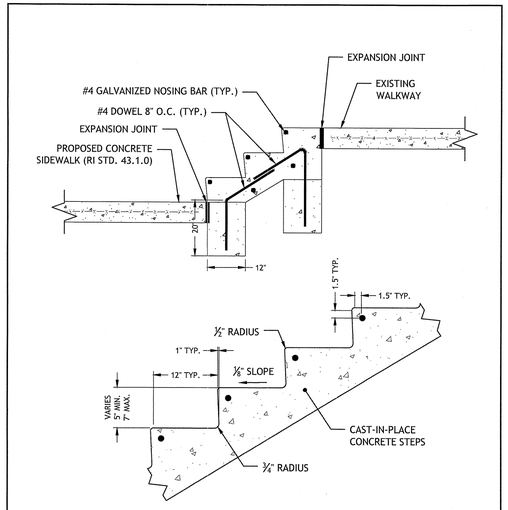


SECTION A-A

6 8'-6" x 5'-3" CONCRETE PAD DETAIL
NOT TO SCALE



7 REMOVE AND RESET HYDRANT DETAIL
NOT TO SCALE

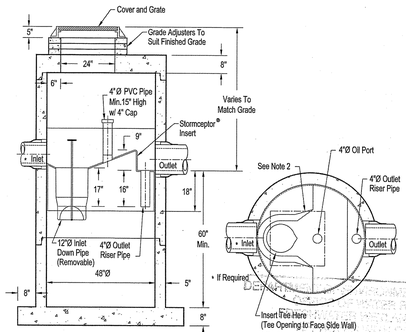


8 CONCRETE STEPS DETAIL
NOT TO SCALE

Rinker MATERIALS

Concrete Pipe Division

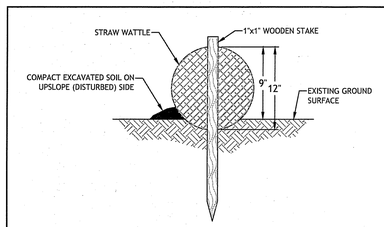
STC 450i Precast Concrete Stormceptor®
(450 U.S. Gallon Capacity)



Notes:
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 027

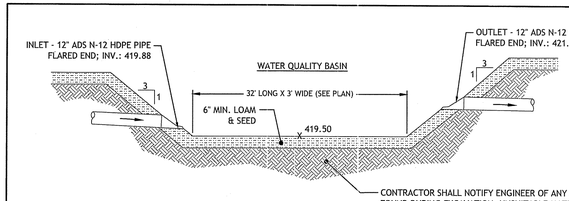
9 STORMCEPTOR STC450i DETAIL
NOT TO SCALE



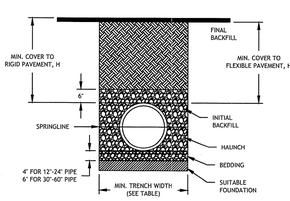
NOTES:

1. BEGIN WATTLE INSTALLATION BY EXCAVATING A 2 TO 3-INCH-DEEP BY 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE OR ALONG THE EXISTING GROUND SURFACE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE OR ON THE DISTURBED SIDE OF THE ANCHOR TRENCH.
2. PLACE WATTLE IN THE TRENCH SUCH THAT IT CONTOURS TO THE EXISTING SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UP-SLOPE OR DISTURBED SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE WATTLE WITH 18 TO 24-INCH-LONG STAKES. INSTALL AN ADDITIONAL STAKE AT EACH END OF THE WATTLE. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2 TO 3 INCHES OF STAKE EXTENDING ABOVE. THE STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE OR GROUND SURFACE.

10 STRAW WATTLE DETAIL
NOT TO SCALE



11 WATER QUALITY BASIN
NOT TO SCALE



MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

	SURFACE LIVE LOADING CONDITION	
PIPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

12 DRAIN PIPE TRENCH INSTALLATION DETAIL
NOT TO SCALE

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300 POST ROAD, WARWICK, RI 02888
(401) 944-1300 (401) 944-1313 FAX WWW.JOECASALI.COM

JOSEPH A. CASALI
No. 9250
REGISTERED PROFESSIONAL ENGINEER
CIVIL
9.4.19

ROADWAY IMPROVEMENT PROJECT
SAYLES AVENUE
(210' NORTH OF BRIDGE WAY TO LAUREL HILL AVENUE)
BURRILLVILLE, RHODE ISLAND

BURRILLVILLE R.I.

REVISIONS:		
NO.	DATE.	DESCRIPTION
1	10/18/18	RIDEM REVISIONS
2	09/06/19	RIDEM RTC

DESIGNED BY:	DRD
DRAWN BY:	DRD/SD
CHECKED BY:	JAC
DATE:	MAY 2018
PROJECT NO:	05-92b

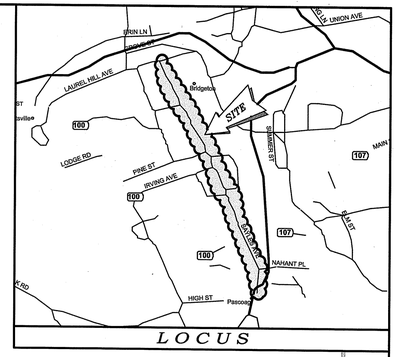
PRELIMINARY
NOT FOR CONSTRUCTION

CIVIL DETAILS

SHEET 14 OF 14

AS SPECIFIED
DATED NOV 13 2019
NO CHANGES ALLOWED
APPROVED BY
18-0156
Nancy L Freeman
Environmental Management
SEP - 5 2019
Office of Water Resources

Q:\05-92 Town of Burrillville\05-92b Sayles Ave SW Project_Phase II Design\ACAD\SAYLES AVENUE PHASE II (RIDEM PERMIT R2).dwg Sep. 04, 2019 5:33pm



R.I.S.P.C.S. (NAD 83)

N/F
A.P. 157, LOT 145
MARK D. & SALLY A. DESROSIERS
VOLUME 218, PAGE 566

N/F
A.P. 157, LOT 146
JANINE R. LUBY
VOLUME 203, PAGE 346

N/F
A.P. 157, LOT 147
SAYLES AVENUE CONDOMINIUM
VOLUME 400, PAGE 264

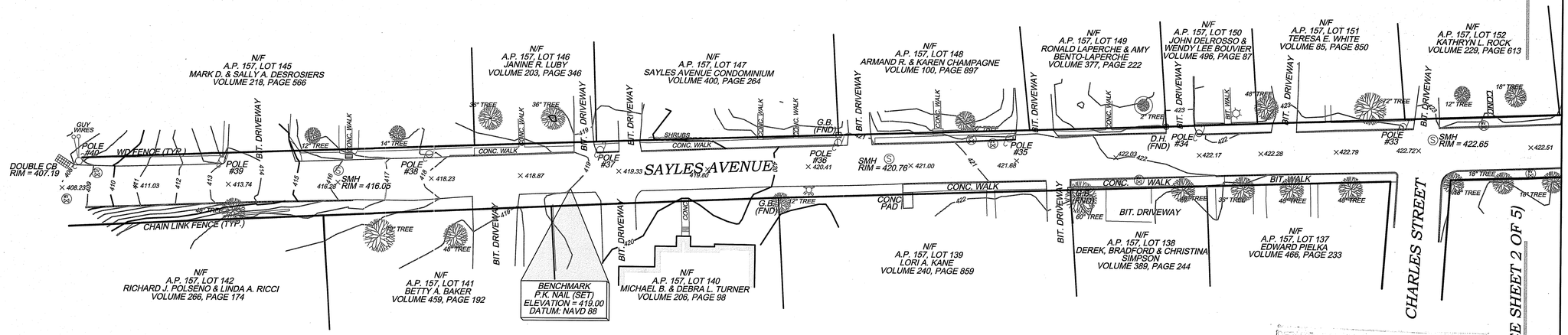
N/F
A.P. 157, LOT 148
ARMAND R. & KAREN CHAMPAGNE
VOLUME 100, PAGE 897

N/F
A.P. 157, LOT 149
RONALD LAPERCHE & AMY BENTO-LAPERCHE
VOLUME 377, PAGE 222

N/F
A.P. 157, LOT 150
JOHN DELROSSO & WENDY LEE BOUVIER
VOLUME 496, PAGE 87

N/F
A.P. 157, LOT 151
TERESA E. WHITE
VOLUME 85, PAGE 850

N/F
A.P. 157, LOT 152
KATHRYN L. ROCK
VOLUME 229, PAGE 613



N/F
A.P. 157, LOT 142
RICHARD J. POLSENO & LINDA A. RICCI
VOLUME 266, PAGE 174

N/F
A.P. 157, LOT 141
BETTY A. BAKER
VOLUME 459, PAGE 192

N/F
A.P. 157, LOT 140
MICHAEL B. & DEBRA L. TURNER
VOLUME 206, PAGE 98

N/F
A.P. 157, LOT 139
LORI A. KANE
VOLUME 240, PAGE 859

N/F
A.P. 157, LOT 138
DEREK, BRADFORD & CHRISTINA SIMPSON
VOLUME 389, PAGE 244

N/F
A.P. 157, LOT 137
EDWARD PIELKA
VOLUME 466, PAGE 233

CHARLES STREET

MATCHLINE (SEE SHEET 2 OF 5)

LEGEND & ABBREVIATIONS

N/F	- NOW OR FORMERLY
A.P.	- ASSESSORS PLAT
S.F.	- SQUARE FEET
AC.	- ACRES
±	- PLUS OR MINUS
STY	- STORY
W/F	- WOOD FRAMED
SHP	- STATE HIGHWAY PLAT
RET.	- RETAINING WALL
PED.	- PEDESTRIAN
(FND.)	- FOUND
RIHB	- RI HIGHWAY BOUND
PK NAIL	- MASONRY NAIL
FE.	- FLARED END
RCP	- REINFORCED CONCRETE PIPE
CLF	- CHAIN LINK FENCE
INV.	- INVERT
x 10.80	- SPOT GRADE

	- PROPERTY LINE
	- ZONING SETBACK LINE
15	- EXISTING CONTOUR
	- STONE WALL
	- FENCE
	- SEWER LINE
	- DRAIN LINE
	- WATER LINE
	- GAS LINE
	- ELECTRIC LINE
S	- SANITARY SEWER MANHOLE
	- CATCH BASIN
D	- STORM DRAIN MANHOLE
W	- WATER GATE
G	- GAS VALVE
E	- ELECTRIC MANHOLE
	- CONCRETE BOUND
	- DRILL HOLE
	- IRON PIPE

NOTES / REFERENCES

1. ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIG SAFE PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-DIG-SAFE AND/OR ALL LOCAL UTILITY COMPANIES.)

GRAPHIC SCALE

40 0 20 40 80 160

(in feet)

1 INCH EQUALS 40 FEET

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WATERMAN ENGINEERING CO.
CIVIL ENGINEERS & SURVEYORS
46 SUTTON AVENUE
EAST PROVIDENCE, RI 02914-2096

AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 13 2019 FILE # 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

NO.	DATE	REVISION	CHECKED BY
1	08/19/10	ADDED TOPO / UTILITIES TO SHEET 5	RSL

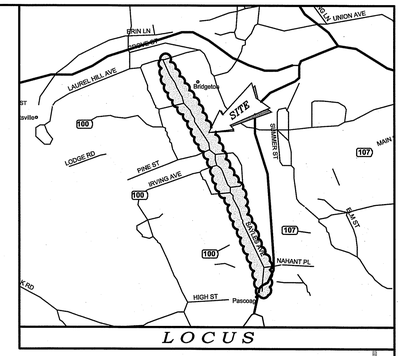
PROJECT TITLE:
BOUNDARY & TOPOGRAPHIC SURVEY PLAN
SAYLES AVENUE
BURRILLVILLE, RHODE ISLAND

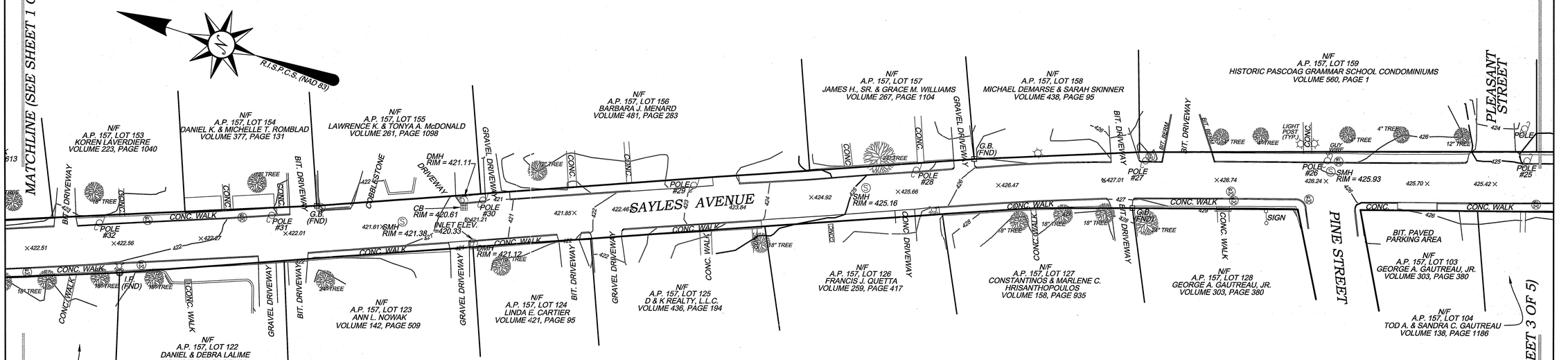
PREPARED FOR:
CASALI & D'AMICO ENGINEERING, INC.
300 POST ROAD
WARWICK, RHODE ISLAND 02888

PROJECT NO.: 07-066
SCALE: 1" = 40'
DATE: 12/03/07
DRAWN BY: BJT
CHECKED BY: RSL
FILENAME: 07-066_SU1_REV
1 of 5 SHTS
DRAWING #: SU1

WATERMAN ENGINEERING CO.
CIVIL ENGINEERS / SURVEYORS ~ EST. 1894
46 SUTTON AVENUE
EAST PROVIDENCE, RHODE ISLAND 02914
PH. - (401) 438-5775 FAX - (401) 438-5773

RECEIVED
Environmental Management
SEP - 5 2019
Office of Water Resources





DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
AS SPECIFIED
DATED NOV 13 2019 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

LEGEND & ABBREVIATIONS

N/F	- NOW OR FORMERLY		- PROPERTY LINE
A.P.	- ASSESSORS PLAT		- ZONING SETBACK LINE
S.F.	- SQUARE FEET	15	- EXISTING CONTOUR
AC.	- ACRES		- STONE WALL
±	- PLUS OR MINUS		- FENCE
STY	- STORY		- SEWER LINE
W/F	- WOOD FRAMED		- DRAIN LINE
SHP	- STATE HIGHWAY PLAT		- WATER LINE
RET.	- RETAINING WALL		- GAS LINE
PED.	- PEDESTRIAN		- ELECTRIC LINE
(FND.)	- FOUND	S	- SANITARY SEWER MANHOLE
RIHB	- RI HIGHWAY BOUND		- CATCH BASIN
PK NAIL	- MASONRY NAIL	D	- STORM DRAIN MANHOLE
FE.	- FLARED END	W	- WATER GATE
RCP	- REINFORCED CONCRETE PIPE	G	- GAS VALVE
CLF	- CHAIN LINK FENCE	E	- ELECTRIC MANHOLE
INV.	- INVERT		- CONCRETE BOUND
x 10.80	- SPOT GRADE		- DRILL HOLE
			- IRON PIPE

NOTES / REFERENCES

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GRAPHIC SCALE

40 0 20 40 80 160

(in feet)

1 INCH EQUALS 40 FEET

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WATERMAN ENGINEERING CO.
CIVIL ENGINEERS & SURVEYORS
46 SUTTON AVENUE
EAST PROVIDENCE, RI 02914-2096

NO.	DATE	REVISION	CHECKED BY
1	08/19/10	ADDED TOPO / UTILITIES TO SHEET 5	RSL

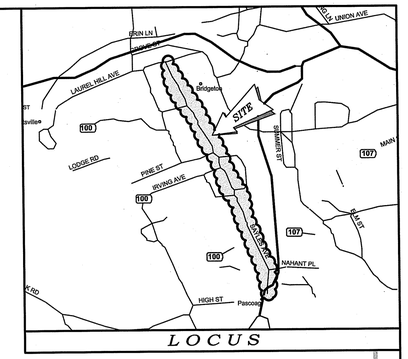
PROJECT TITLE:
BOUNDARY & TOPOGRAPHIC SURVEY PLAN
SAYLES AVENUE
BURRILLVILLE, RHODE ISLAND

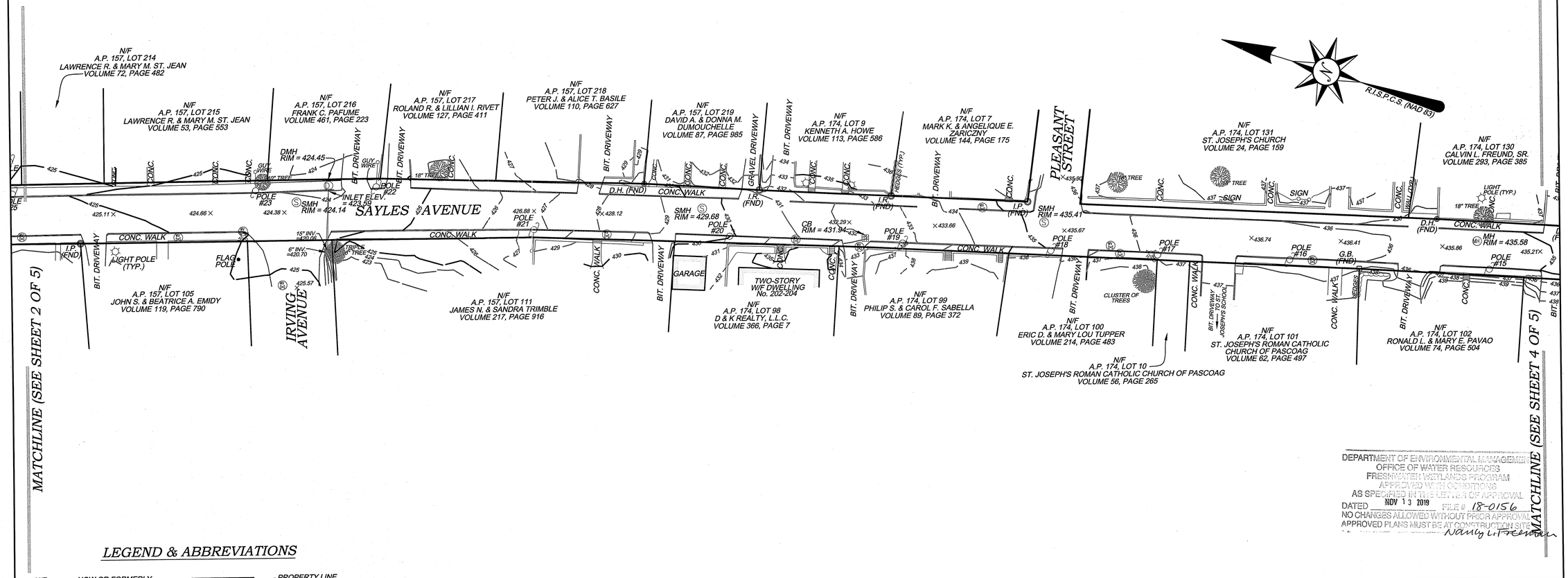
PREPARED FOR:
CASALI & D'AMICO ENGINEERING, INC.
300 POST ROAD
WARWICK, RHODE ISLAND 02888

PROJECT NO.: 07-066
SCALE: 1" = 40'
DATE: 12/03/07
DRAWN BY: BJT
CHECKED BY: RSL
FILENAME: - 07-066_SU1_REV
2 of 5 SHTS
DRAWING #: SU1

WATERMAN ENGINEERING CO.
CIVIL ENGINEERS / SURVEYORS - EST. 1894
46 SUTTON AVENUE
EAST PROVIDENCE, RHODE ISLAND 02914
PH. - (401) 438-5775 FAX - (401) 438-5773

Environmental Management
SEP - 5 2019
Office of Water Resources





DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 13 2019 FILE # 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freudan

LEGEND & ABBREVIATIONS

N/F	- NOW OR FORMERLY		- PROPERTY LINE
A.P.	- ASSESSORS PLAT		- ZONING SETBACK LINE
S.F.	- SQUARE FEET	15	- EXISTING CONTOUR
AC.	- ACRES		- STONE WALL
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STY	- STORY		- SEWER LINE
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GRAPHIC SCALE

40 0 20 40 80 160

(in feet)

1 INCH EQUALS 40 FEET

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WATERMAN ENGINEERING CO.
CIVIL ENGINEERS & SURVEYORS
46 SUTTON AVENUE
EAST PROVIDENCE, RI 02914-2096

NO.	DATE	REVISION	CHECKED BY
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PROJECT TITLE:
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SAYLES AVENUE
BURRILLVILLE, RHODE ISLAND

PREPARED FOR:
CASALI & D'AMICO ENGINEERING, INC.
300 POST ROAD
WARWICK, RHODE ISLAND 02888

PROJECT NO.: 07-066
SCALE: 1" = 40'
DATE: 12/03/07
DRAWN BY: BJT
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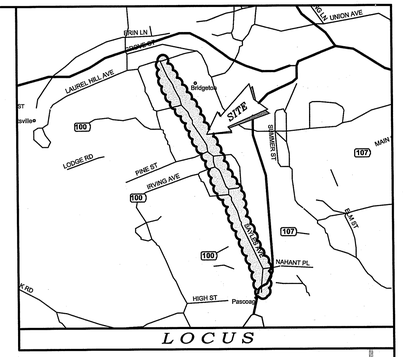
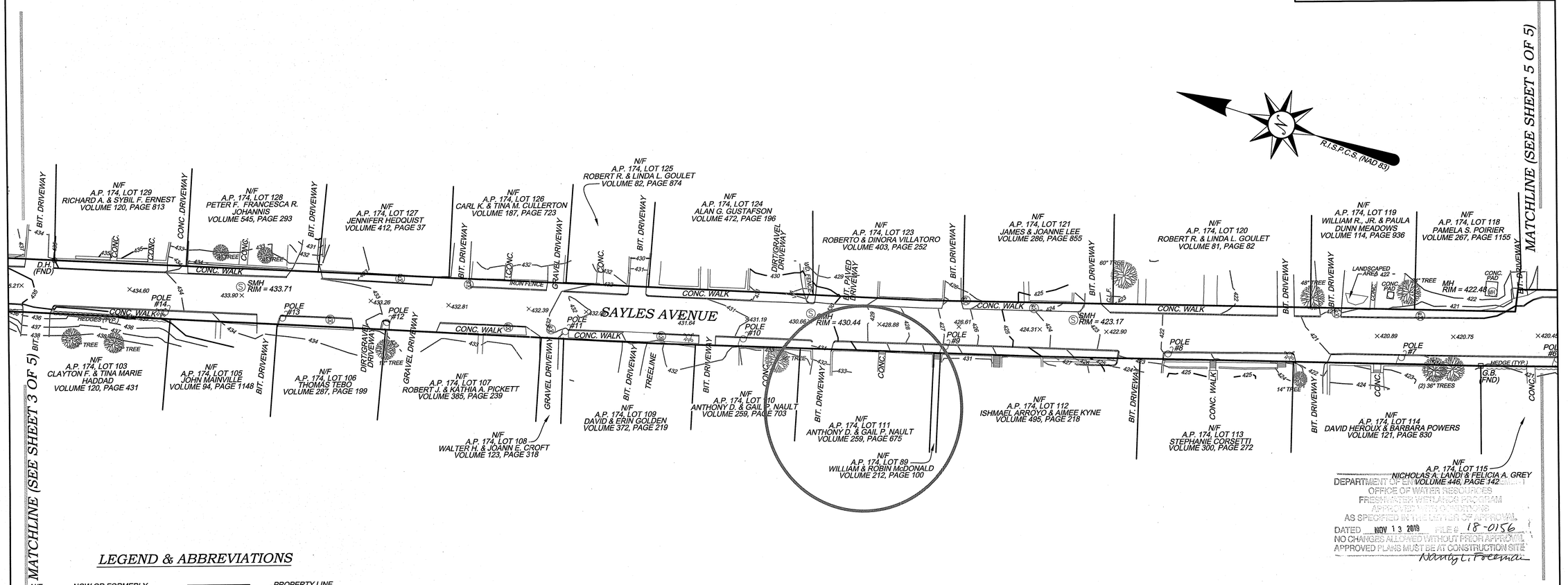
FILENAME: 07-066_SU1_REV
3 of 5 SHTS
DRAWING #: SU1

WATERMAN ENGINEERING CO.
CIVIL ENGINEERS / SURVEYORS ~ EST. 1894
46 SUTTON AVENUE
EAST PROVIDENCE, RHODE ISLAND 02914
PH. - (401) 438-5773 FAX - (401) 438-5773

Environmental Management
SEP - 5 2019
Office of Water Resources





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CIVIL ENGINEERS & SURVEYORS
46 SUTTON AVENUE
EAST PROVIDENCE, RI 02914-2096

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GRAPHIC SCALE

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(in feet)

1 INCH EQUALS 40 FEET

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300 POST ROAD
WARWICK, RHODE ISLAND 02888

PROJECT NO. 07-066
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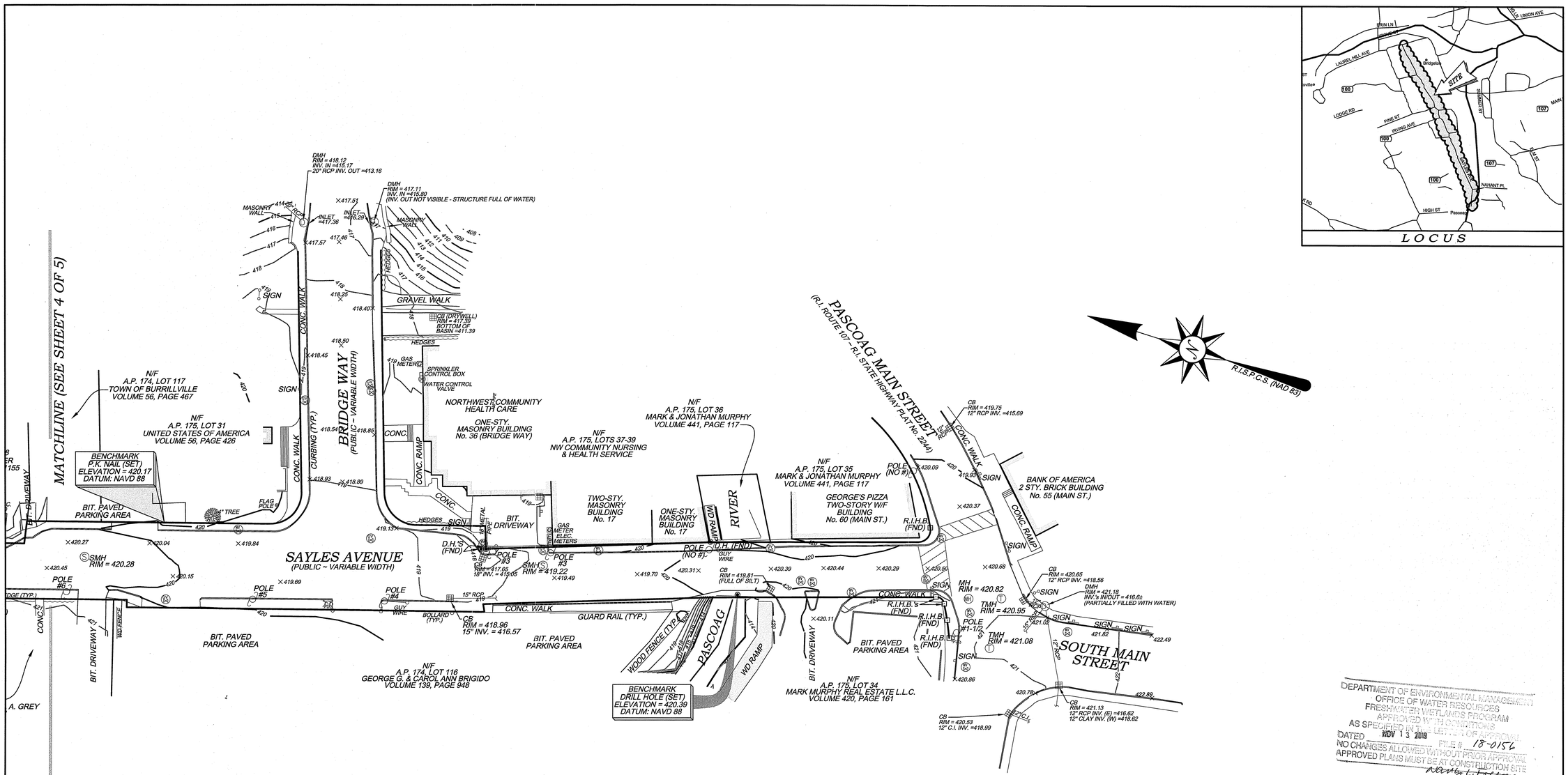
FILENAME: 07-066_SU1_REV
4 of 5 SHTS
DRAWING #: SU1

WATERMAN ENGINEERING CO.
CIVIL ENGINEERS / SURVEYORS - EST. 1894
46 SUTTON AVENUE
EAST PROVIDENCE, RHODE ISLAND 02914
PH. - (401) 438-5775 FAX - (401) 438-5773

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN LETTER OF APPROVAL
DATED NOV 13 2019 FILE # 18-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Wendy L. Freeman

Environmental Engineering
SEP - 5 2019
Office of Water Resources



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WATERMAN ENGINEERING CO.
CIVIL ENGINEERS & SURVEYORS
46 SUTTON AVENUE
EAST PROVIDENCE, RI 02914-2096

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN LETTER OF APPROVAL
DATED NOV 13 2013 FILE # 13-0156
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Friedman

NO.	DATE	REVISION	CHECKED BY
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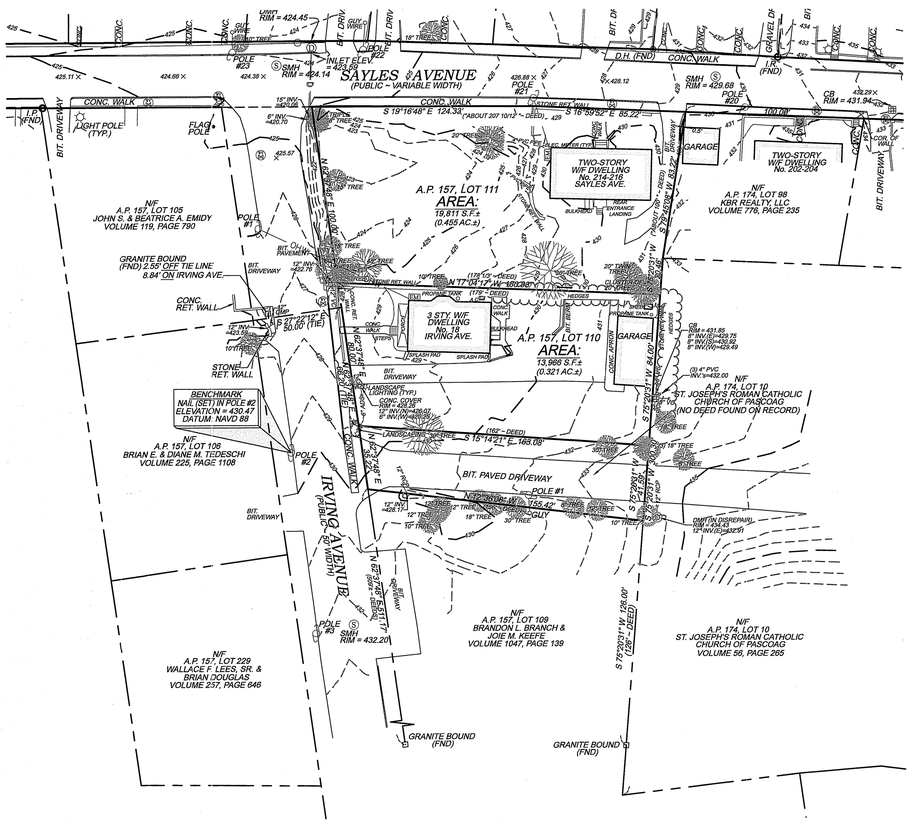
PROJECT TITLE:
BOUNDARY & TOPOGRAPHIC SURVEY PLAN
SAYLES AVENUE
BURRILLVILLE, RHODE ISLAND

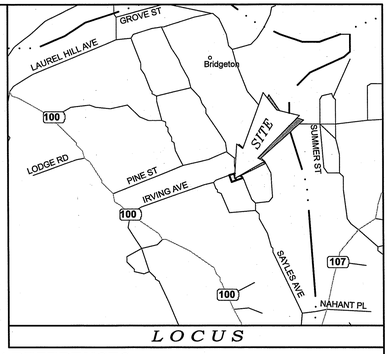
PREPARED FOR:
CASALI & D'AMICO ENGINEERING, INC.
300 POST ROAD
WARWICK, RHODE ISLAND 02888

PROJECT NO. 07-066
SCALE: 1" = 40'
DATE: 12/03/07
DRAWN BY: BJT
CHECKED BY: RSL
FILENAME: 07-066_SU1_REV
5 of 5 SHTS
DRAWING #: SU1

WATERMAN ENGINEERING CO.
CIVIL ENGINEERS / SURVEYORS ~ EST. 1894
46 SUTTON AVENUE
EAST PROVIDENCE, RHODE ISLAND 02914
PH. ~ (401) 438-5775 FAX ~ (401) 438-5773

Environmental Management
SEP - 5 2013
Office of Water Resources





R.I.S.P.C.S. (NAD 83)

NOTES / REFERENCES

1. REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD;

   A.) PLAN ENTITLED "MINOR SUBDIVISION FOR WALLACE F. & ELIZABETH A. LEES 38 PINE STREET PASCOAG, RHODE ISLAND 02859 OF A.P. 157, LOT 106 IRVING AVENUE, BURRILLVILLE, RHODE ISLAND AUGUST, 1997 BY NATIONAL SURVEYORS - DEVELOPERS, INC."

   B.) PLAN ENTITLED "PLAN OF LAND OWNED BY THE COMMUNITY BAPTIST CHURCH OF PASCOAG BURRILLVILLE, RHODE ISLAND NOVEMBER, 1987 REVISED: 11-24-87 SCALE: 1 INCH EQUALS 50 FEET BY MARC N. NYBERG & ASSOCIATES."

2. REFERENCE IS MADE TO THE FOLLOWING TOWN OF BURRILLVILLE LAND EVIDENCE RECORDS REGARDING RECORDED TITLE TO THE PREMISES SURVEYED;

   A.) A.P. 157, LOT 110 ~ JEFFREY A. & DENISE J. STONE ~ VOLUME 187, PAGE 1174

   B.) A.P. 157, LOT 111 ~ JAMES N. & SANDRA J. TRIMBLE ~ VOLUME 217, PAGE 916

3. THESE PREMISES MAY BE SUBJECT TO THE FOLLOWING EASEMENTS, RIGHTS OF WAY OR AGREEMENTS OF RECORD;

   A.) NONE FOUND RECORDED

4. THESE PREMISES ARE SITUATED IN A 'R-12' ZONE (VILLAGE RESIDENTIAL DISTRICT)

DIMENSIONAL REQUIREMENTS	SINGLE FAMILY DWELLING
MIN. LOT SIZE	= 12,000 SQ.FT.
MIN. LOT FRONTAGE	= 100 FT.
MIN. S/B FRONT YARD	= 30 FT.
MIN. S/B REAR YARD	= 30 FT.
MIN. S/B SIDE YARD	= 10 FT.
MAX. STRUCTURE HEIGHT	= 35 FT.
MAX. BUILDING COVERAGE	= 25%

   NOTE - ZONING INFORMATION IS FROM CURRENT ZONING AND MAY NOT REFLECT THE CONDITIONS AT THE TIME OF CONSTRUCTION OR ANY VARIANCES GRANTED.

5. THESE PREMISES ARE SITUATED IN A ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE (UNSHADED) THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DESIGNATED ON THE "NATIONAL FLOOD INSURANCE PROGRAM, FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 130 OF 451 TOWN OF BURRILLEVILLE, MAP NUMBER 44007C0130 MAP EFFECTIVE DATE: MARCH 2, 2009, FEDERAL EMERGENCY MANAGEMENT AGENCY".

6. ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-DIG-SAFE AND/OR ALL LOCAL UTILITY COMPANIES.)

7. THE HORIZONTAL DATUM FOR THIS PROJECT IS THE R.I.S.P.C.S. (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88. THE PROJECT DATUMS WERE ESTABLISHED FROM DATA TRANSMITTED FROM MTS REFERENCE STATIONS USING THE MTS RTK NETWORK VIA CARLSON BRX6 GNSS ANTENNAS / RECEIVERS.

8. THE LOCATION OF IRVING AVENUE AND THE PROPERTIES AS DIMENSIONED WERE REPRODUCED FROM THE MONUMENTATION FOUND, LAND EVIDENCE RECORDS & OCCUPATION IN THIS AREA. MULTIPLE LAND EVIDENCE RECORDS IN THIS AREA CONTAIN INCONSISTENCIES AND POOR GEOMETRY. NO LAYOUT FOR IRVING AVENUE OR SAYLES AVENUE COULD BE FOUND ON RECORD.

9. NO DEED OF RECORD COULD BE FOUND FOR THE STRIP OF A.P. 174, LOT 10 FRONTING ON IRVING AVENUE. A TITLE SEARCH IS RECOMMENDED REGARDING THE OWNERSHIP / TITLE TO THIS PORTION OF LAND.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (D.E.M.)
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Nancy L. Freeman
Environmental Management
SEP - 5 2019
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			- IRON PIPE

GRAPHIC SCALE

40 0 20 40 80 120

(in feet)

1 INCH EQUALS 40 FEET

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WATERMAN ENGINEERING CO.
CIVIL ENGINEERS & SURVEYORS
46 SUTTON AVENUE
EAST PROVIDENCE, RI 02914-2096

** SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

CERTIFICATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON JANUARY 1, 2016, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY:	MEASUREMENT / ACCURACY SPECIFICATION:
LIMITED CONTENT BOUNDARY SURVEY	I
OTHER TYPE OF SURVEY:	
DATA ACCUMULATION SURVEY	III
TOPOGRAPHIC SURVEY	T-1

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:

LIMITED CONTENT BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE SUBJECT PARCEL.

RICHARD S. LIPSITZ
No. 1837
PROFESSIONAL LAND SURVEYOR

BY: _____ 1837 5/22/2019

RICHARD S. LIPSITZ, P.L.S. REG. NO. DATE
WATERMAN ENGINEERING COMPANY (COA No. LS.000A483)

NO.	DATE	REVISION	CHECKED BY

EXISTING CONDITIONS PLAN
A.P. 157, LOTS 110 & 111
SAYLES AVENUE & IRVING AVENUE
BURRILLVILLE, RHODE ISLAND

JOE CASALI ENGINEERING, INC.
300 POST ROAD
WARWICK, RHODE ISLAND 02888

PROJECT NO.: 07-066
SCALE: 1" = 40'
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DRAWN BY: BJT/MS
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Waterman ENGINEERING COMPANY
Engineers & Surveyors - Est. 1894

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Phone: (401) - 438 - 5775
Fax: (401) - 438 - 5773
www.watermanengineering.net