School Street Reconstruction
Main Street to Granite Street

Westerly, Rhode Island

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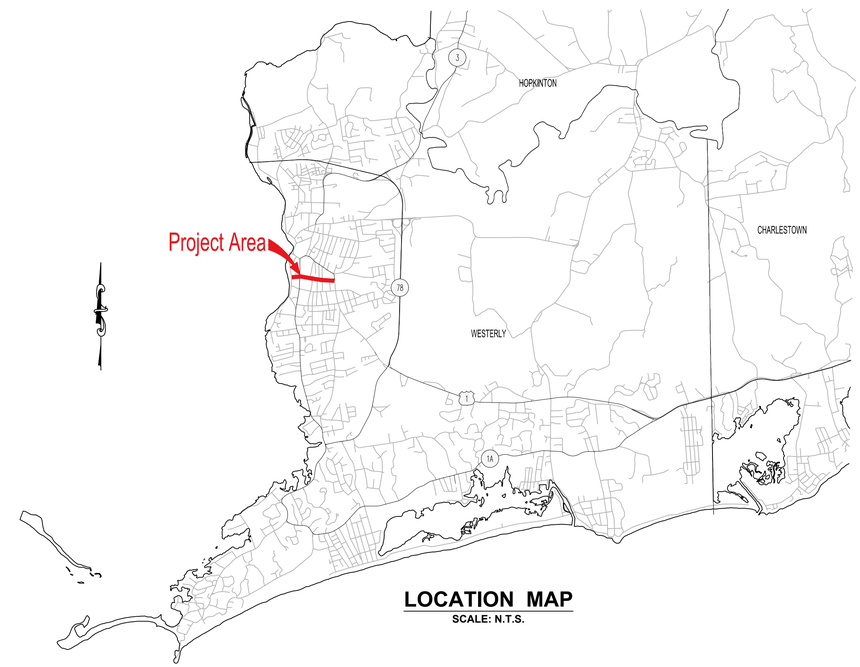

LOCATION MAP
SCALE: N.T.S.

CARL J. ADAMO
No. 4211
REGISTERED PROFESSIONAL ENGINEER
9/25/2020

Prepared For:

Town of Westerly
45 Broad Street
Westerly, RI 02891

Advertisement Submission
September 2020

Prepared By:

PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

SURVEY NOTES:

1. THIS PLAN WAS PREPARED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOS DATED MARCH 2019, SUPPLEMENTED BY AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP DURING MAY OF 2019.
2. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM NAD83, BASED UPON GPS OBSEVATIONS.
3. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD88 BASED UPON RHODE ISLAND BENCH MARK DISK STAMPED "BM B 1 1961" WITH A RECORD ELEVATION OF 3.04 FEET, AND DISK "B 18 1965" WITH A RECORD ELEVATION OF 110.35 FEET.
4. THE STREET AND ABUTTERS LOT LINES AND INFORMATION SHOWN HEREON WERE TAKEN FROM THE ASSESSORS OFFICE AND GIS RECORDS ARE CURRENT AT THE DATE OF THIS PLAN, AND ARE NOT THE RESULT OF AN ACTUAL SURVEY. ALL PROPERTY LINES SHOWN HEREON ARE APPROXIMATE.
5. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY THE APPROPRIATE UTILITY AUTHORITIES INCLUDING "DIG SAFE" PRIOR TO STARTING WORK. ANY DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE COST OF REPAIRS SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

GENERAL NOTES:

1. CONTRACTOR TO ESTABLISH BENCHMARKS PRIOR TO STARTING CONSTRUCTION.
2. ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL CONFORM TO THE RIDOT STANDARD SPECIFICATIONS, DETAILS, AND ANY OTHER AGENCY WITH AUTHORITY IN THIS AREA.
3. PAVEMENT CORES WERE TAKEN AT VARIOUS LOCATIONS. COPIES OF THE CORE LOGS ARE INCLUDED IN THE "GENERAL PROVISIONS" SECTION OF THE CONTRACT DOCUMENTS.
4. ANY DAMAGE TO EXISTING PAVEMENT, CULVERTS, WALLS, SIDEWALK, FENCES ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN.
5. THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.06 OF THE RIDOT STANDARD SPECIFICATION, LATEST EDITION.
6. ALL DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
7. ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 3 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR "ASPHALT EMULSION TACK COAT."
8. THE LIMITS OF SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT THEIR OWN EXPENSE, LOAM AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED WITH THE PERMISSION OF THE ENGINEER. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REESTABLISHED WITH LOAM AND TYPE 2 SEED. IF AREAS ARE BEYOND WORK LIMIT LINES, THE THE COST SHALL BE BORNE BY THE CONTRACTOR.
9. UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS WITHOUT APPROVAL BY THE TOWN.
10. CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH HMA PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE TOWN.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS (PUDDLES) REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO PAVING OPERATIONS.
13. NO UNPROTECTED CONSTRUCTED FEATURE MAY PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, DRAINAGE INLET, ETC.
14. THE CONTRACTOR SHALL BE AWARE OF THE PRESENCE OF OVERHEAD UTILITIES WITHIN THE WORK ZONE AND SHALL PLAN ALL CONSTRUCTION ACCORDINGLY. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EQUIPMENT METHODS REQUIRED TO ACCOMMODATE THE OVERHEAD FACILITIES.
15. CONTRACTOR WILL NOT BE ALLOWED TO START ANY WORK UNTIL SURVEY GROUND CONTROL HAS BEEN ESTABLISHED. THERE WILL BE NO SEPARATE PAYMENT FOR THIS TYPE OF SURVEY WORK.
16. ANY DAMAGE TO EXISTING PRIVATE PROPERTY CAUSED BY THE CONTRACTOR, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
17. THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL. ITEMS WILL BE AS DIRECTED BY THE ENGINEER.
18. ALL EXISTING SIGNS SHALL REMAIN IN PLACE, UNLESS OTHERWISE NOTED.
19. ALL LIMITS OF PROPOSED CEMENT SIDEWALK CONSTRUCTION SHALL MATCH THE EXISITNG SIDEWALK JOINT OR AS DIRECTED BY THE ENGINEER.
20. WHERE REQUIRED, EXISTING GRANITE CURB MAY NEED TO BE ALTERED BY CUTTING IN ORDER TO FIT A NEW WHEELCHAIR RAMP TRANSITION CURB OR DRIVEWAY TRANSITION CURB. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO "REMOVE AND RESET GRANITE CURB" ITEM.
21. CONTRACTOR SHALL TAKE CARE IN REMOVING SIDEWALK ADJACENT TO EXISTING WALLS – SEE "DETAILS".

DRAINAGE AND EROSION CONTROL NOTES:

1. NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
2. STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODABLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH COMPOST FILTER SOCK TO STABILIZE.
3. UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES. ANY VARIATION FOUND FROM THE PLANS OR POTENTIAL CONFLICTS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO START OF CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
6. CATCH BASIN RIM GRADES SHALL BE SET FLUSH WITH GUTTER GRADE, OR AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE TOWN.
8. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE RIDOT STANDARD SPECIFICATIONS, LATEST EDITION.
9. ALL EROSION CONTROLS SHALL BE REMOVED AND DISPOSED AT THE COMPLETION OF WORK AND STABILIZATION OF DISTURBED AREAS. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. ALL COSTS SHALL BE INCLUDED IN THE COST OF EROSION CONTROLS.
10. CONTRACTOR TO EXCAVATE TEST PITS IN AREAS OF POTENTIAL UTILITY CONFLICTS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL RELAY INFORMATION TO ENGINEER PRIOR TO COMMENCEMENT OF UTILITY WORK. ALSO, THE CONTRACTOR TO EXCAVATE TEST PITS TO VERIFY THE LOCATION OF EXISTING DRAINAGE PIPES AND/OR CULVERTS PRIOR TO THE INSTALLATION OF THE NEW DRAINAGE SYSTEM AND CONFIRM THE NEW SYSTEM FUNCTIONALITY WITH THE ENGINEER.
11. CATCH BASIN INLET SEDIMENT CONTROL DEVICES SHALL BE UTILIZED WHEN ADJACENT WORK ACTIVITY EXPOSES ERODIBLE SOILS.
12. ALL TRENCHES SHALL BE BACKFILLED AT THE END OF EACH DAY AND PAVED WITH TEMPORARY PATCH PRIOR TO EACH WEEKEND AND HOLIDAY.
13. THE CONTRACTOR SHALL FIELD CHECK ALL EXISTING DRAINAGE STRUCTURES PRIOR TO ORDERING ANY NEW STRUCTURES TO ENSURE FUNCTIONALITY AND CONSTRUCTABILITY OF THE NEW DRAINAGE SYSTEM AND TO AVOID CONFLICTS WITH EXISTING UTILITIES.

UTILITY NOTES:

1. DUE TO ANTICIPATED CONFLICTS AND/OR TO REMOVE UNSTABLE GAS LINES PRIOR TO RECLAMATION, NATIONAL GRID WILL RELAY LINES PRIOR TO THE START OF CONSTRUCTION AT MAIN STREET, ELM STREET, CHESTNUT STREET, AND CHESTER AVENUE AND ALONG SCHOOL STREET FROM CHESTNUT STREET TO SPRING STREET. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE FINAL UTILITY LOCATIONS.
2. THE CONTRACTOR SHALL ADJUST ALL UTILITY FRAMES, COVERS, GRATES AND BOXES ACCORDINGLY TO MATCH TEMPORARY AND FINAL PAVEMENT GRADES.
3. TO ACCOUNT FOR UNSTABLE CORBEL CONES, THE CONTRACTOR SHALL RECONSTRUCT ONE VERTICAL FOOT OF EACH SEWER MANHOLE.

LANDSCAPE NOTE:

1. SHRUBS THAT ABUT THE SIDEWALK AND ARE NOT CALLED TO BE PRUNED SHALL BE PROTECTED WITH SHRUB PLANT PROTECTION DEVICE STANDARD 51.2.0.

JOB SPECIFIC LEGEND:

- AG — ADJUST GAS GATE BOX TO GRADE
- AT — ADJUST TELEPHONE MANHOLE TO GRADE
- BCD — BITUMINOUS CONCRETE DRIVEWAYS
3" CLASS 9.5 HMA
±8" REGRADE/ADD COMPACT GRAVEL BORROW SUBBASE
OR RECLAIMED GRAVEL BORROW SUBBASE
- CCB — CLEANING CATCH BASINS– ALL TYPES AND SIZES
- CFP — CLEAN AND FLUSH PIPE
- CM — CUTTING AND MATCHING ASPHALT (SEE "DETAILS")
- DC — REMOVE AND DISPOSE CONCRETE CURB
- DCB — REMOVE AND DISPOSE CATCH BASIN
- DFC — REMOVE AND DISPOSE FRAME AND COVER
- DFG — REMOVE AND DISPOSE FRAME AND GRATE
- DFH — REMOVE AND DISPOSE FIRE HYDRANT
- DFP — REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- DMH — REMOVE AND DISPOSE MANHOLE
- DP — REMOVE AND DISPOSE PIPE
- DS — REMOVE AND DISPOSE SIGN
- DSW — REMOVE AND DISPOSE SIDEWALK
- FDR — FULL DEPTH PAVEMENT RECLAMATION
- FDS — FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT
- ISCD — INLET SEDIMENT CONTROL DEVICE (SEE "DETAILS")
- LS — LOAM AND SEED
- MEG — MATCH EXISTING GRADE
- MEPM — MATCH EXISTING PAVEMENT MARKINGS
- MMO–1 — MICROMILL 2" OF EXISTING PAVEMENT
INSTALL 2" OF CLASS 9.5 HMA
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS
- MMO–2 — MICROMILL 2" OF EXISTING PAVEMENT
INSTALL 2" OF MODIFIED CLASS 12.5 HMA
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS
- NFH — NEW FIRE HYDRANT WITH GATE VALVE
- NWCB — FURNISH AND INSTALL NEW WATER CURB STOP BOX
- NWVB — FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX
- P — 2" CLASS 9.5 HMA SURFACE COURSE
2" MODIFIED CLASS 12.5 HMA BASE COURSE
±8" RECLAIMED GRAVEL BORROW SUBBASE
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS
- RHH — REMOVE, HANDLE, HAUL, TRIM, RESET CURB, STRAIGHT, CIRCULAR ALL TYPES
- MB — REMOVE AND RESET MAILBOX
- RSC — REMOVE AND RESET STONE COLUMN
- RSW — RESET STONE WALL
- R&D — REMOVE AND DISPOSE
- SGA — SPECIAL GRADED AGGREGATE
- SLM — SHARED LANE MARKING
- SP — SHRUB PRUNING
- TEP — TIE EXISTING PIPE INTO NEW STRUCTURE
- TNP — TIE NEW PIPE INTO EXISTING STRUCTURE
- TP — TEST PIT
- 4DY — 4 INCH EPOXY RESIN PAVEMENT MARKINGS– YELLOW
- 6W — 6 INCH EPOXY RESIN PAVEMENT MARKINGS– WHITE

R.I. STD. DETAILS:

- 3.4.1 — BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET
- 4.2.0 — PRECAST 4'–0" ROUND MANHOLE
- 4.2.2 — PRECAST 6'–0" ROUND MANHOLE
- 4.4.0 — PRECAST 4'–0" ROUND CATCH BASIN
- 4.5.0 — PRECAST CONCRETE DROP INLET
- 4.5.1 — PRECAST CONCRETE DROP INLET LATERAL OUTLET
- 4.5.2 — PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET
- 6.2.0 — ROUND FRAME AND COVER LIGHT – DUTY
- 6.2.1 — HEAVY–DUTY SQUARE FRAME AND COVER
- 6.3.4 — HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
- 7.3.0C — GRANITE CURB – CIRCULAR
- 7.3.0S — GRANITE CURB – STRAIGHT
- 7.3.1 — 3'–0" GRANITE TRANSITION CURB
- 7.3.2 — 6'–0" GRANITE TRANSITION CURB
- 7.3.3 — GRANITE WHEELCHAIR RAMP TRANSITION CURB
- 7.6.0 — CURB SETTING DETAIL
- 20.3.0 — PAVEMENT MARKINGS – CROSSWALKS AND STOP LINES
- 43.1.0 — CEMENT CONCRETE SIDEWALK
- 43.2.0 — BITUMINOUS CONCRETE SIDEWALK
- 43.3.0 — WHEELCHAIR RAMP
- 43.3.1 — WHEELCHAIR RAMP FOR LIMITED RIGHT–OF WAY AREAS
- 43.4.0 — DRIVEWAY DEVELOPMENT FOR 3'–0" TRANSITION CURB
- 43.4.1 — DRIVEWAY DEVELOPMENT FOR 6'–0" TRANSITION CURB
- 43.5.0 — CEMENT CONCRETE DRIVEWAYS
- 48.1.0 — DETECTABLE WARNING PANEL PLACEMENT

EXISTING SYMBOLS

- ABD — ABANDON
- BIT — BITUMINOUS
- BB — BITUMINOUS BERM
- BC — BITUMINOUS CURB
- BOMO — BOLT OVER MAIN OUTLET
- BS — BARE STEEL
- CC — CONCRETE CURB
- CB — CATCHBASIN
- CBDBL — CATCHBASIN WITH DOUBLE GRATE
- CBCI — CATCHBASIN WITH CURB INLET
- CB–GI — CATCHBASIN WITH GUTTER INLET
- CI — CAST IRON PIPE
- CLF — CHAIN LINK FENCE
- CM — CORRUGATED METAL
- CMP — CORRUGATED METAL PIPE
- CNO — COULD NOT OPEN
- CONC — CONCRETE
- CPP — CORRUGATED PLASTIC PIPE
- DI — DROP INLET
- DIP — DUCTILE IRON PIPE
- DNO — DID NOT OPEN
- DYL — DOUBLE YELLOW LINE
- EOP — EDGE OF PAVEMENT
- GC — GRANITE CURB
- INV — INVERT
- JB — JERSEY BARRIER
- LSA — LANDSCAPED AREA
- MT — METAL
- NP — NO PARKING
- OHW — OVERHEAD WIRE
- PE — POLYETHYLENE GAS PIPE
- PIC — PICKET FENCE
- PL — PLASTIC GAS PIPE
- PVC — POLYVINYL CHLORIDE PIPE
- RCP — REINFORCED CONCRETE PIPE
- RWC — CONCRETE RETAINING WALL
- RWS — STONE RETAINING WALL
- RWW — WOOD RETAINING WALL
- VC — VITRIFIED CLAY
- WCR — WHEELCHAIR RAMP
- CBDH — CONCRETE BOUND WITH DRILL HOLE
- DH — DRILL HOLE FOUND
- IPF — IRON PIPE FOUND
- IRF — IRON ROD FOUND
- SBDH — STONE BOUND WITH DRILL HOLE
- CATCH BASIN
- CULVERT
- DRAIN MANHOLE
- NO LABEL MANHOLE
- TELEPHONE MANHOLE
- GAS VALVE
- WATER GATE
- FIRE HYDRANT
- MONITORING WELL
- DECIDUOUS TREE
- SIGN (SINGLE POSTED)
- LAMP POST
- UTILITY POLE
- UTILITY POLE WITH TRANSFORMER
- UTILITY POLE WITH LIGHT
- UTILITY POLE WITH LIGHT/TRANS
- UTILITY GUY WIRE
- SEWER
- ASSESSORS GIS LINE
- CHAIN LINK FENCE
- WOOD FENCE
- WOOD GUARDRAIL
- DRAIN LINE
- SEWER LINE
- OVERHEAD WIRE
- WATER LINE
- GAS LINE
- STONE WALL
- HEDGE LINE
- TREE LINE
- INTERMEDIATE CONTOURS
- INDEX CONTOURS
- WETLAND LINE

PROPOSED SYMBOLS

- CUT AND MATCH
- SIGN
- DRAIN MANHOLE
- CATCH BASIN
- GRANITE CURB
- STONE MASONRY RETAINING WALL
- CONCRETE RETAINING WALL
- FIRE HYDRANT
- WATER CURB STOP BOX
- WATER GATE VALVE AND BOX
- WATER TEE
- WATER COUPLING
- WATER REDUCER
- WATER CUT AND CAP
- TEMPORARY LINE STOP

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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

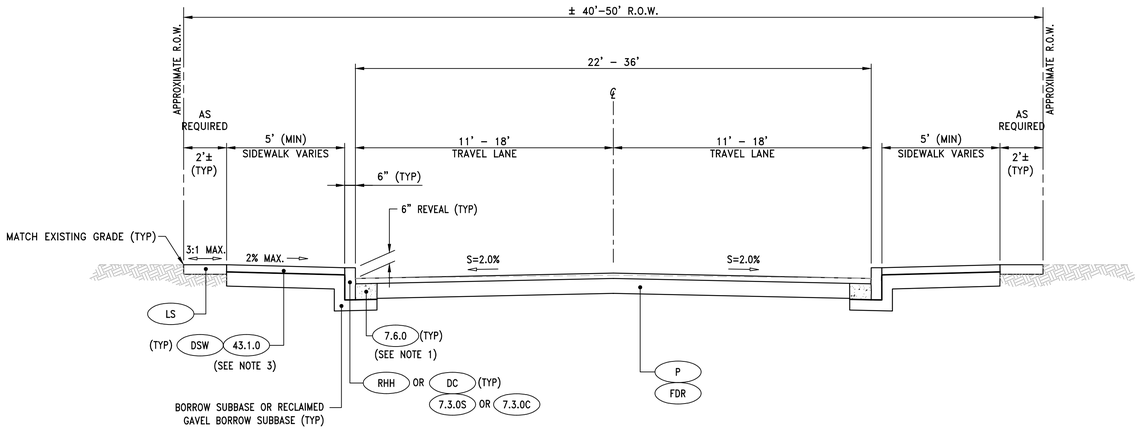
PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
PLAN SYMBOLS, NOTES AND LEGEND

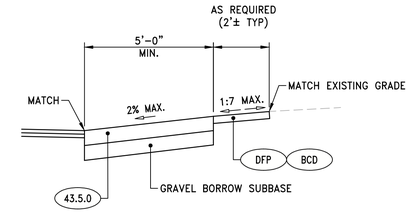
DRAWING NO.: C1.1

SHEET NO. 2 OF 33

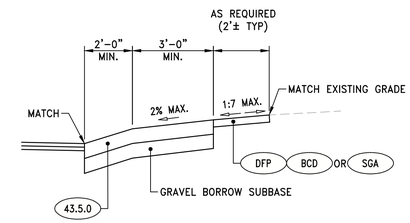
Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-BT\dwgs\C1.1 Notes and Legend.dwg



SCHOOL STREET - STA. 99+75 TO 128+00



TYPICAL COMMERCIAL DRIVEWAY
MATCH SECTION FOR SIDEWALK AREAS 43.4.1



TYPICAL RESIDENTIAL DRIVEWAY
MATCH SECTION FOR SIDEWALK AREAS 43.4.0

PAVEMENT STRUCTURE:

BCD — BITUMINOUS CONCRETE DRIVEWAYS
3" CLASS 9.5 HMA
±8" REGRADE/ADD COMPACT GRAVEL BORROW SUBBASE
OR RECLAIMED GRAVEL BORROW SUBBASE

FDR — FULL DEPTH PAVEMENT RECLAMATION

MMO–1 — MICROMILL 2" OF EXISTING PAVEMENT
INSTALL 2" OF CLASS 9.5 HMA
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS

MMO–2 — MICROMILL 2" OF EXISTING PAVEMENT
INSTALL 2" OF MODIFIED CLASS 12.5 HMA
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS

P — 2" CLASS 9.5 HMA SURFACE COURSE
2" MODIFIED CLASS 12.5 HMA BASE COURSE
±8" RECLAIMED GRAVEL BORROW SUBBASE
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS

NOTES:

1. PAYMENT FOR REMOVAL OF EXISTING CURBLOCK, IF PRESENT, SHALL BE CONSIDERED INCIDENTAL TO THE ITEM FOR REMOVE AND DISPOSE CURB.
2. PAYMENT FOR REMOVAL OF BITUMINOUS PAVEMENT AT THE GUTTER LINE DURING CURB REMOVAL OR INSTALLATION OF NEW CURB SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS FOR INSTALLATION OF NEW CURB.
3. THE PROPOSED SIDEWALK AND PAVEMENT MAY BE CONSTRUCTED UPON THE EXISTING GRAVEL SUBBASE PROVIDED THE GRAVEL CONFORMS TO THE REQUIREMENTS OF GRAVEL BORROW AS DEFINED IN SECTION M.01 OF THE RIDOT STANDARD SPECIFICATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR THE VERTICAL AND HORIZONTAL LAYOUT OF CONSTRUCTION. PRIOR TO THE REMOVAL OF ANY EXISTING ROADWAY OR CURBING, THE CONTRACTOR MUST COORDINATE WITH THE RESIDENT ENGINEER.

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ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

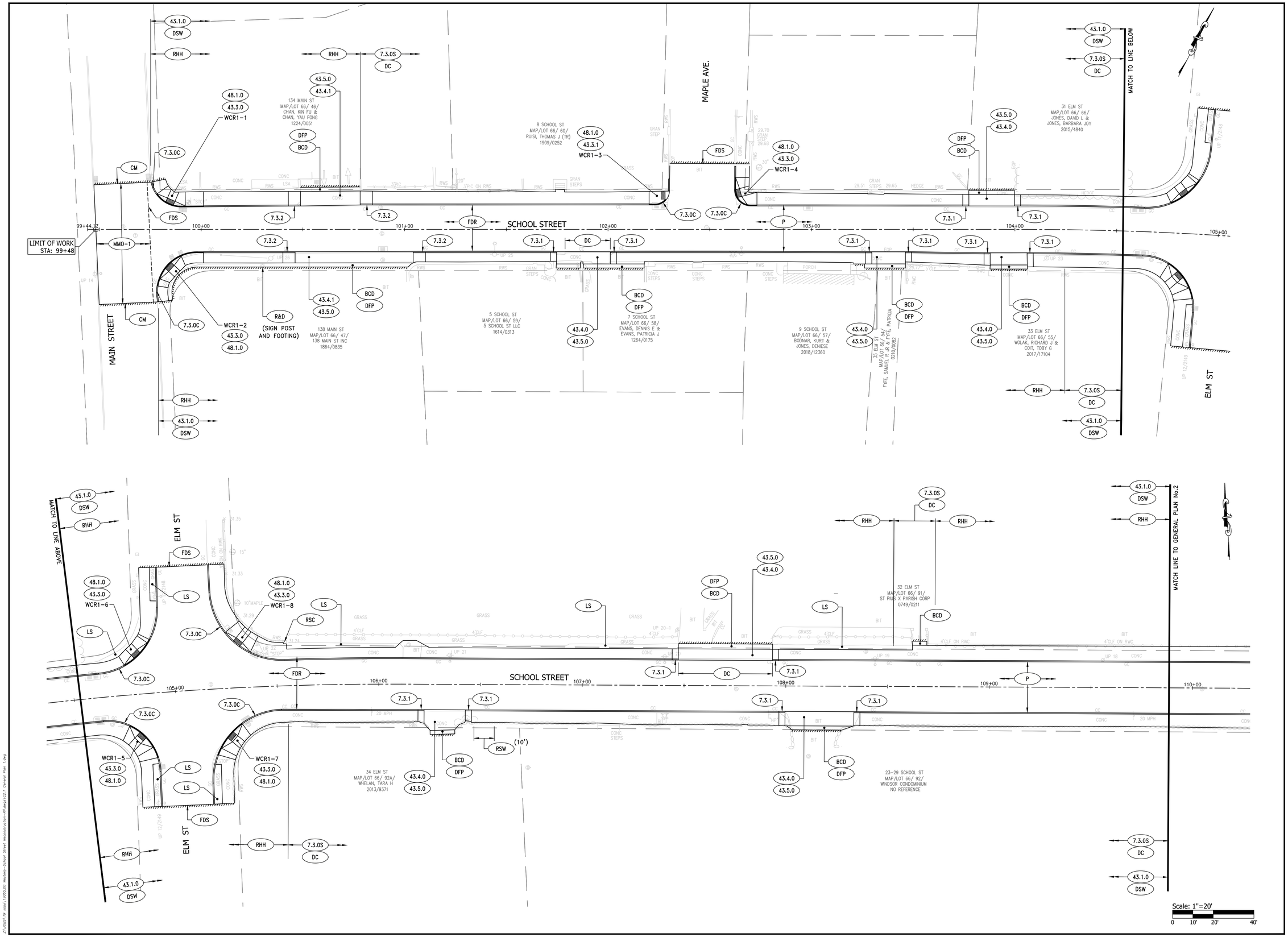
PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	NOT TO SCALE
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
TYPICAL SECTIONS

DRAWING NO.: C1.2

SHEET NO. 3 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\Dwgs\C1.2 Typical Sections.dwg



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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

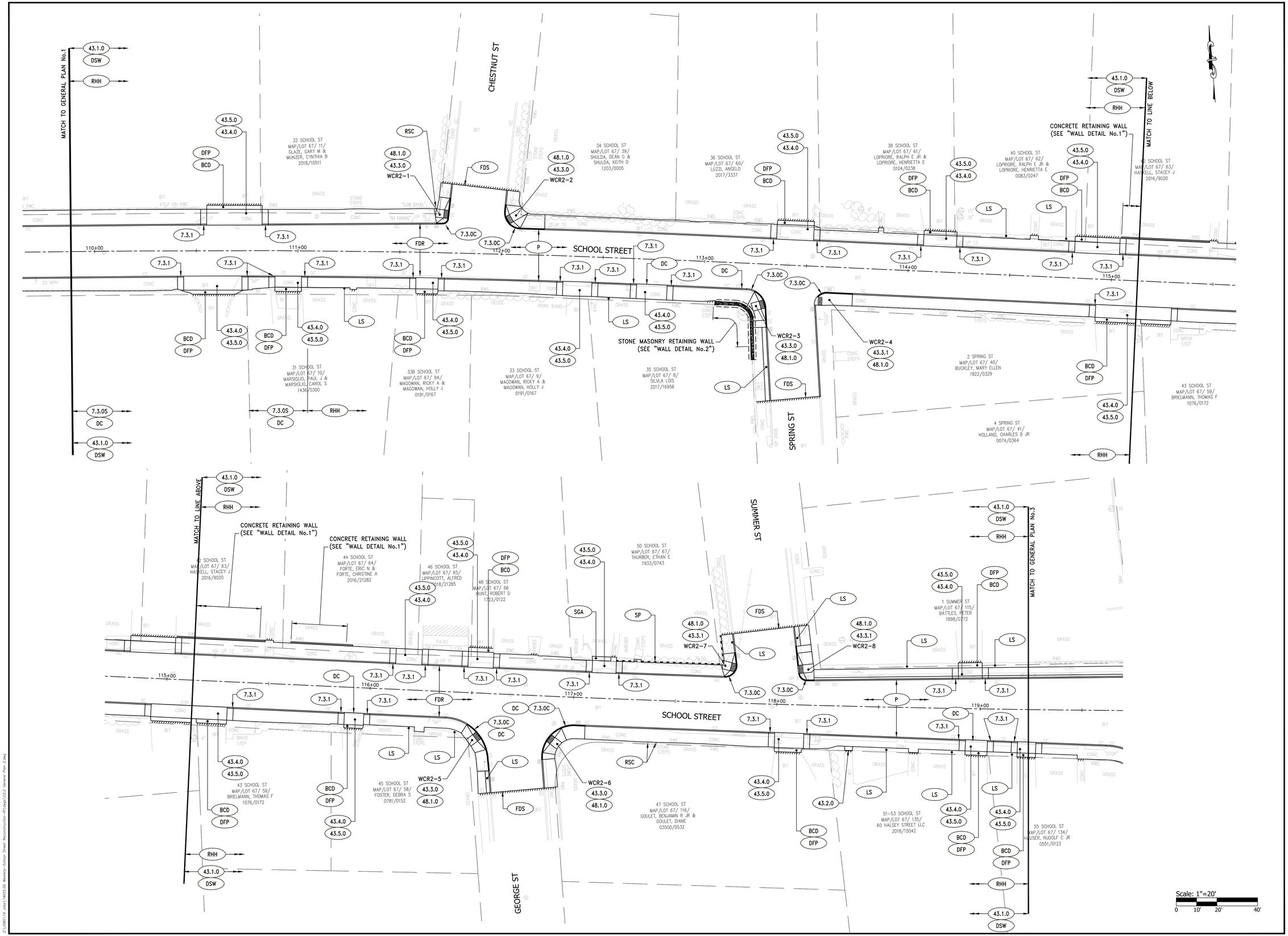
DRAWING TITLE:

GENERAL PLAN No.1

DRAWING NO.: C2.1

SHEET NO. 4 OF 33

Z:\2019\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\dwg\C2.1 General Plan 1.dwg



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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

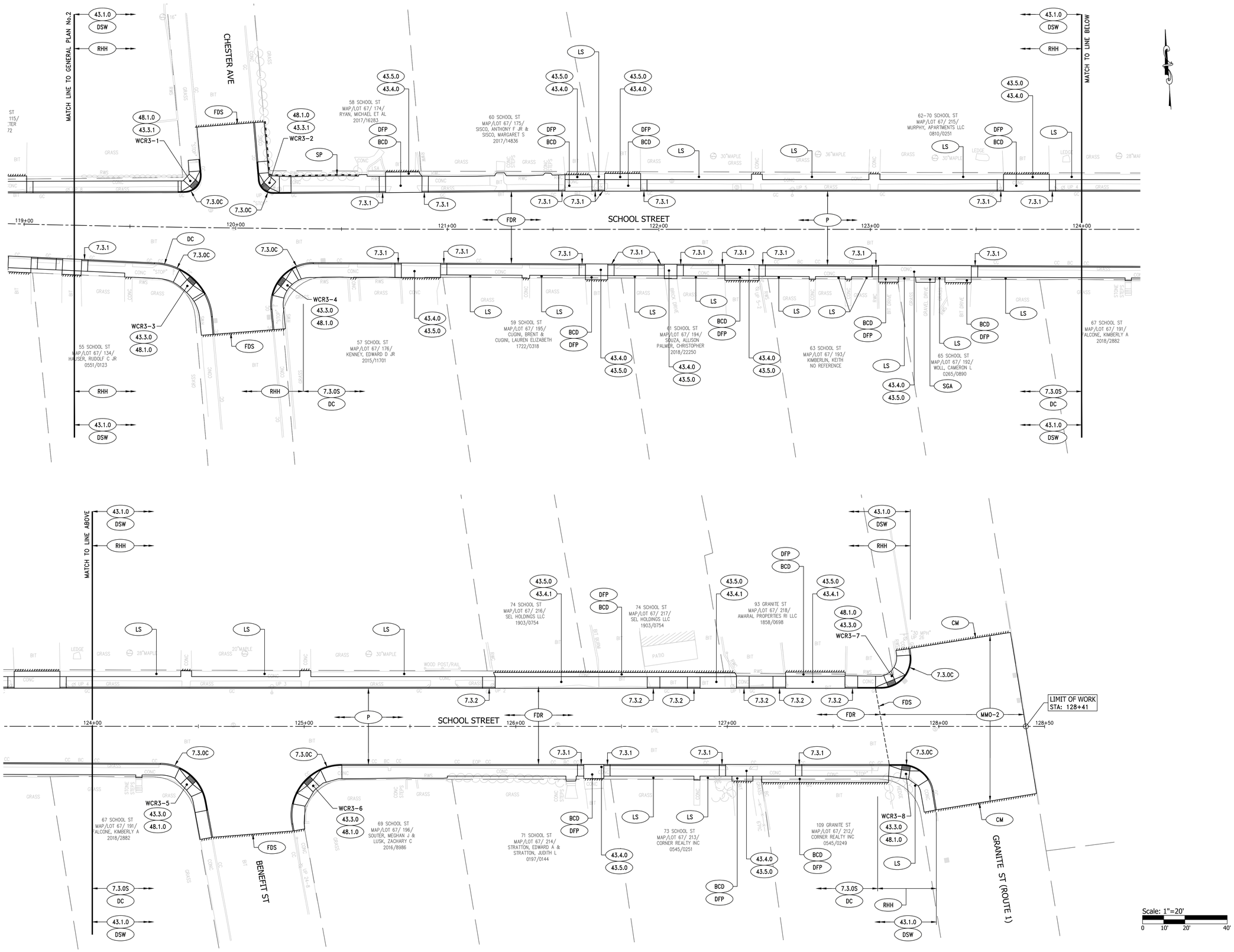
PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
GENERAL PLAN No.2

DRAWING NO.: C2.2

SHEET NO. 5 OF 33

Z:\19055.19 AMA\19055.00 Westerly-School Street Reconstruction-RI\dwg\C2.2 General Plan 2.dwg



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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

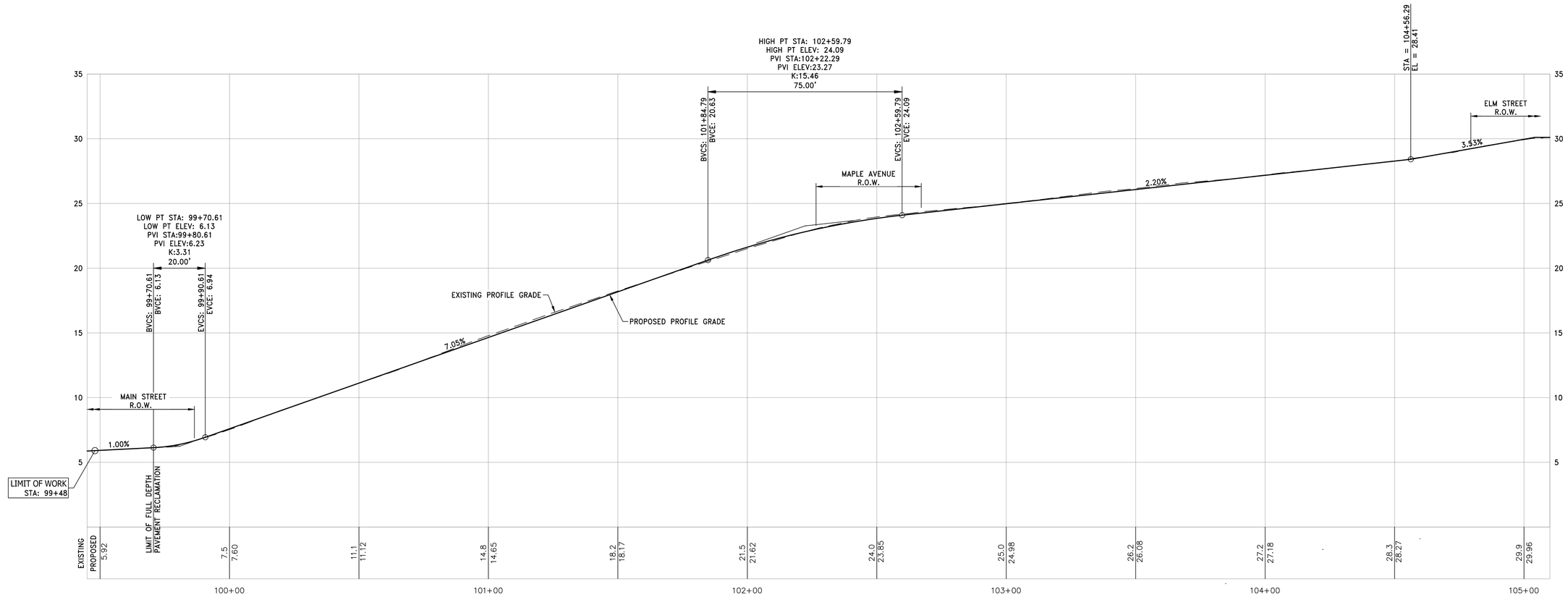
REVISIONS:

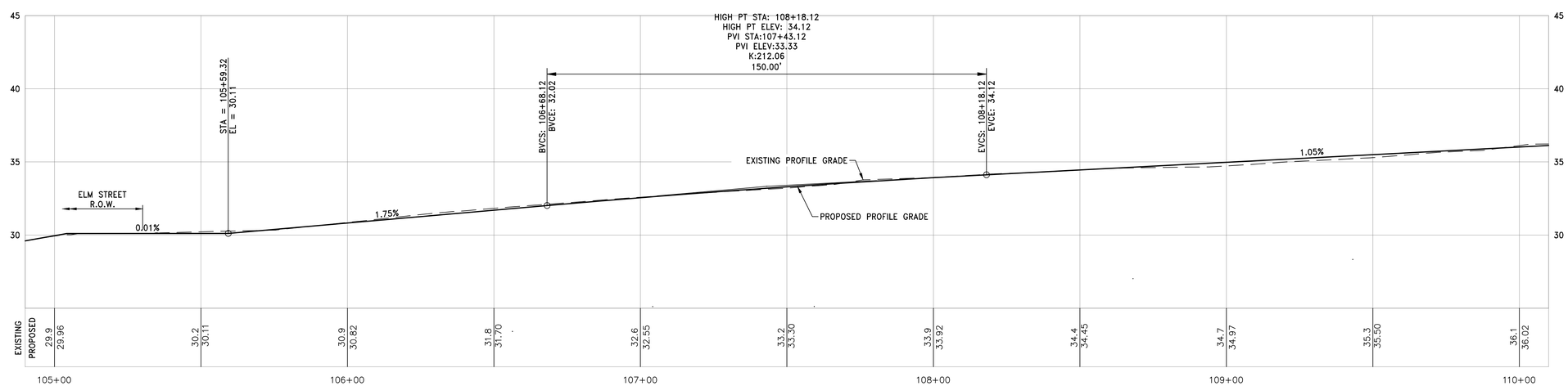
PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
GENERAL PLAN No.3

DRAWING NO.: C2.3

SHEET NO. 6 OF 33





Vertical: 0 2' 4' 8'

Horizontal: 0 10' 20' 40'

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School Street Reconstruction
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Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20' HOR, 1"=4' VER
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

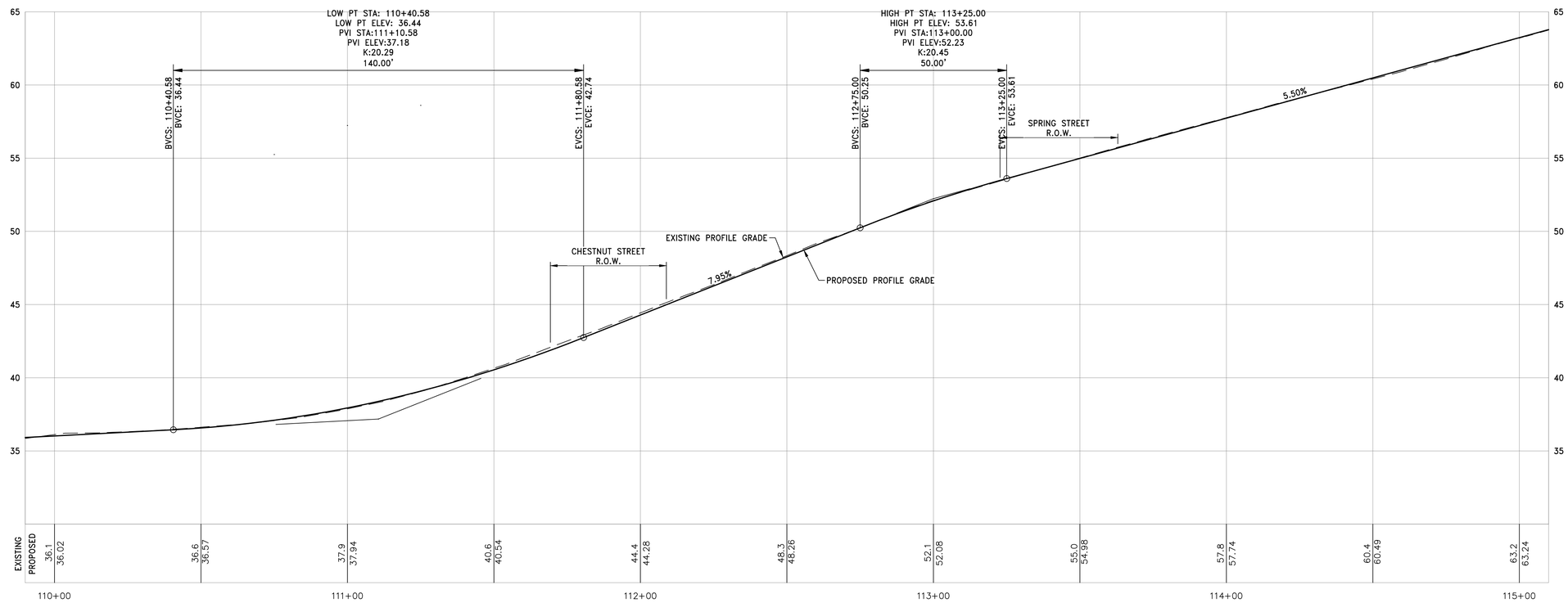
DRAWING TITLE:

PROFILE No.1

DRAWING NO.: C3.1

SHEET NO. 7 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-PS\dwgs\C3.1-C3.4 Profiles.dwg



Vertical: 0 2' 4' 8'

Horizontal: 0 10' 20' 40'

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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20' HOR, 1"=4' VER
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

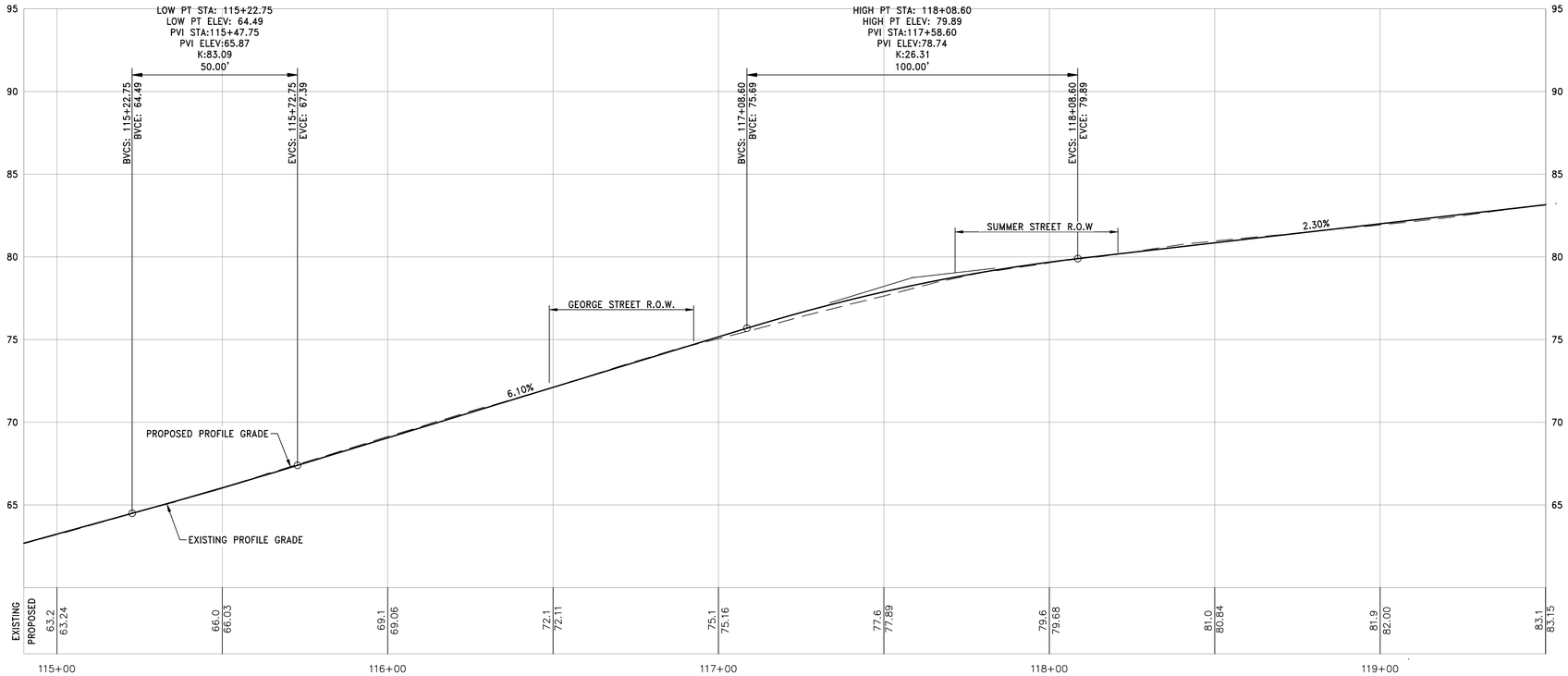
DRAWING TITLE:

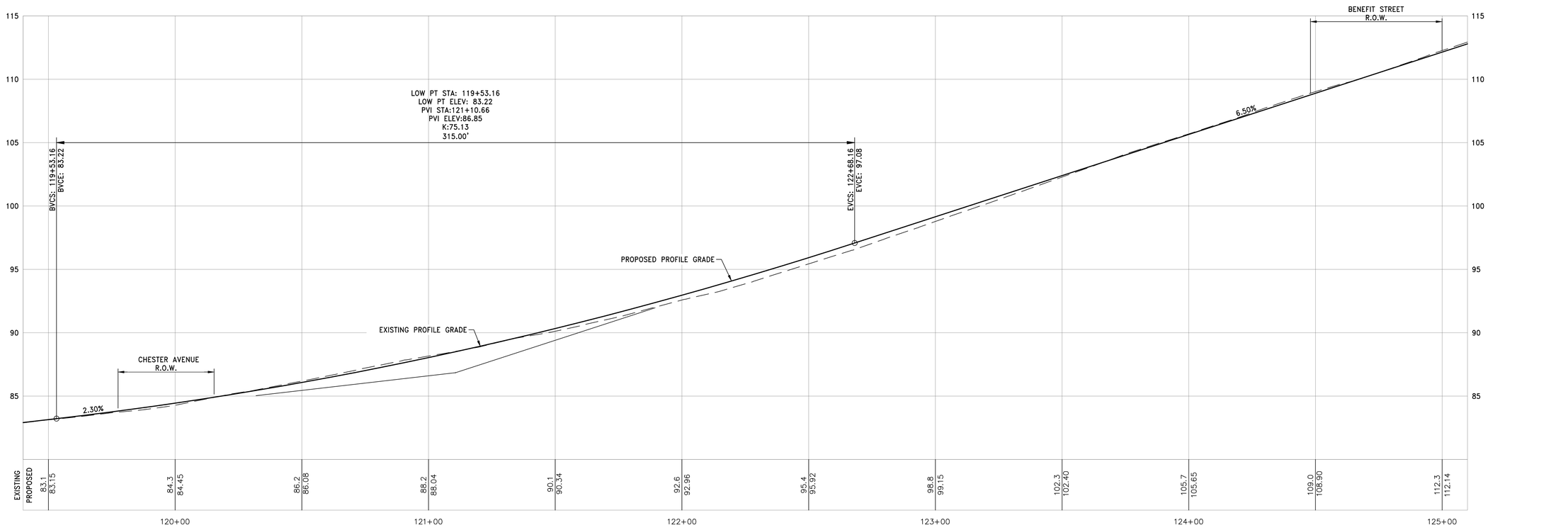
PROFILE No.2

DRAWING NO.: C3.2

SHEET NO. 8 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\Dwgs\C3.1-C3.4 Profiles.dwg





Vertical: 0 2' 4' 8'

Horizontal: 0 10' 20' 40'

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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

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School Street Reconstruction
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Westerly, Rhode Island

REVISIONS:

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DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

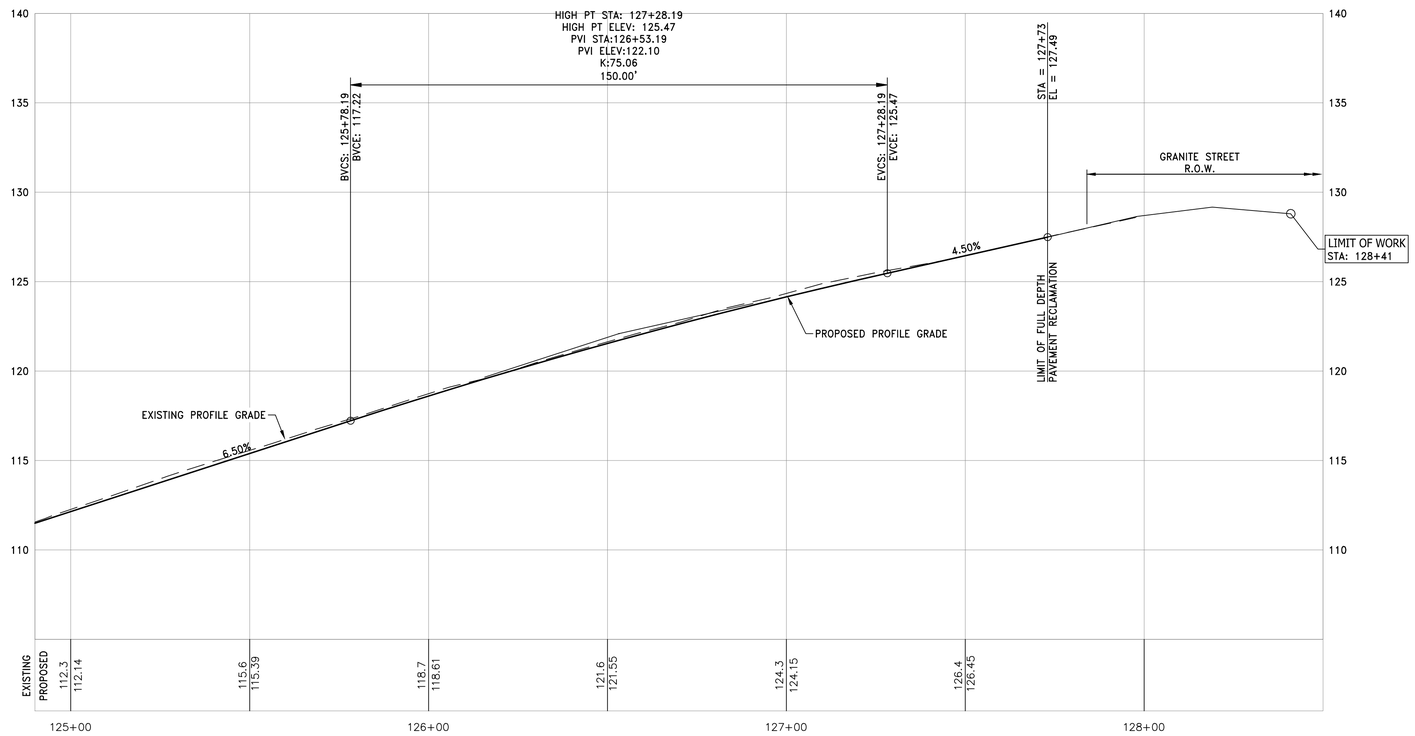
DRAWING TITLE:

PROFILE No.3

DRAWING NO.: C3.3

SHEET NO. 9 OF 33

Z:\19055.19 JobS\19055.00 Westerly-School Street Reconstruction-RI\Dwgs\C3.1-C3.4 Profiles.dwg



Vertical: 0 2' 4' 8'

Horizontal: 0 10' 20' 40'

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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

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REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20' HOR, 1"=4' VER
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

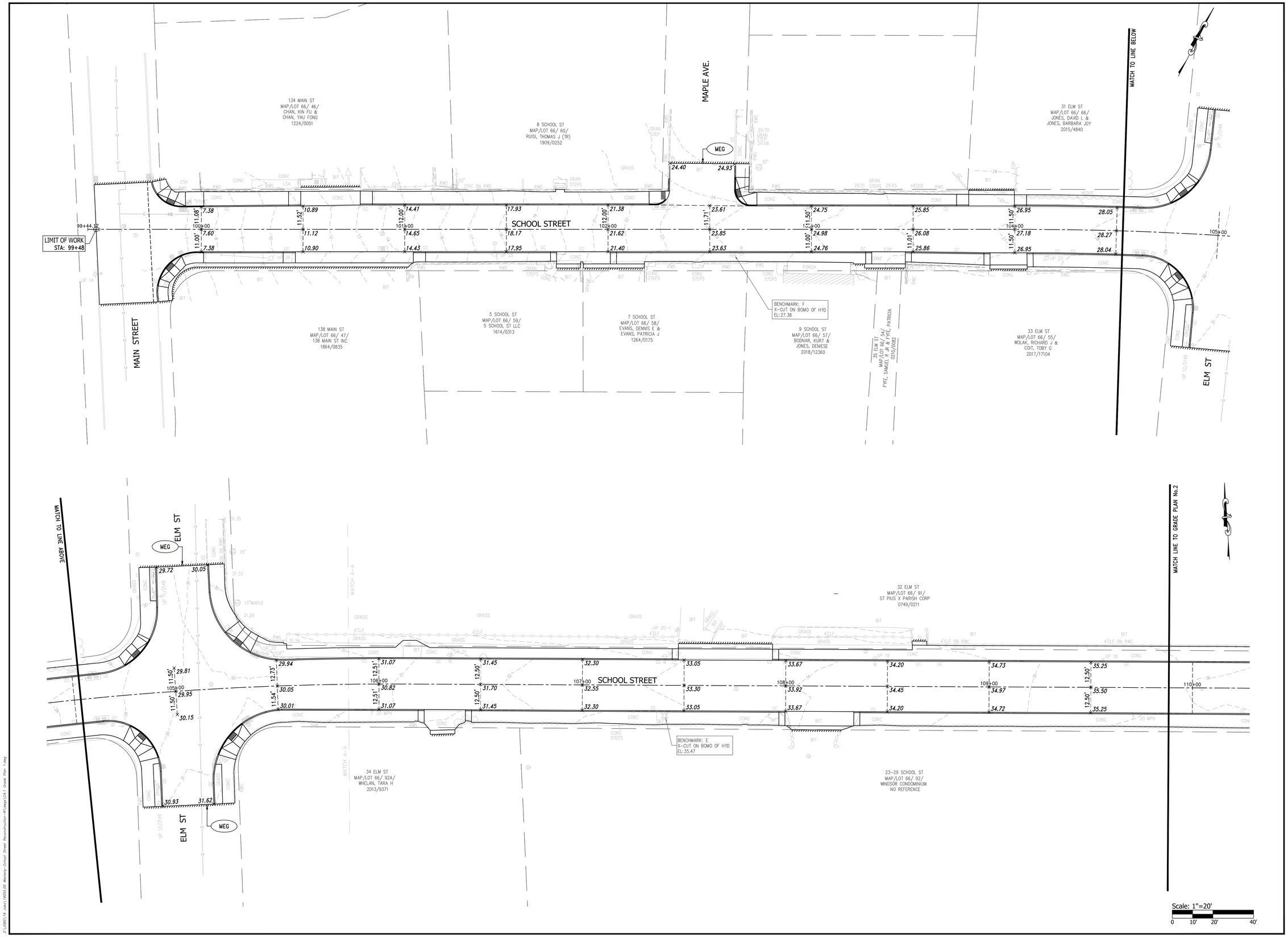
DRAWING TITLE:

PROFILE No.4

DRAWING NO.: C3.4

SHEET NO. 10 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\Dwgs\C3.1-C3.4 Profiles.dwg



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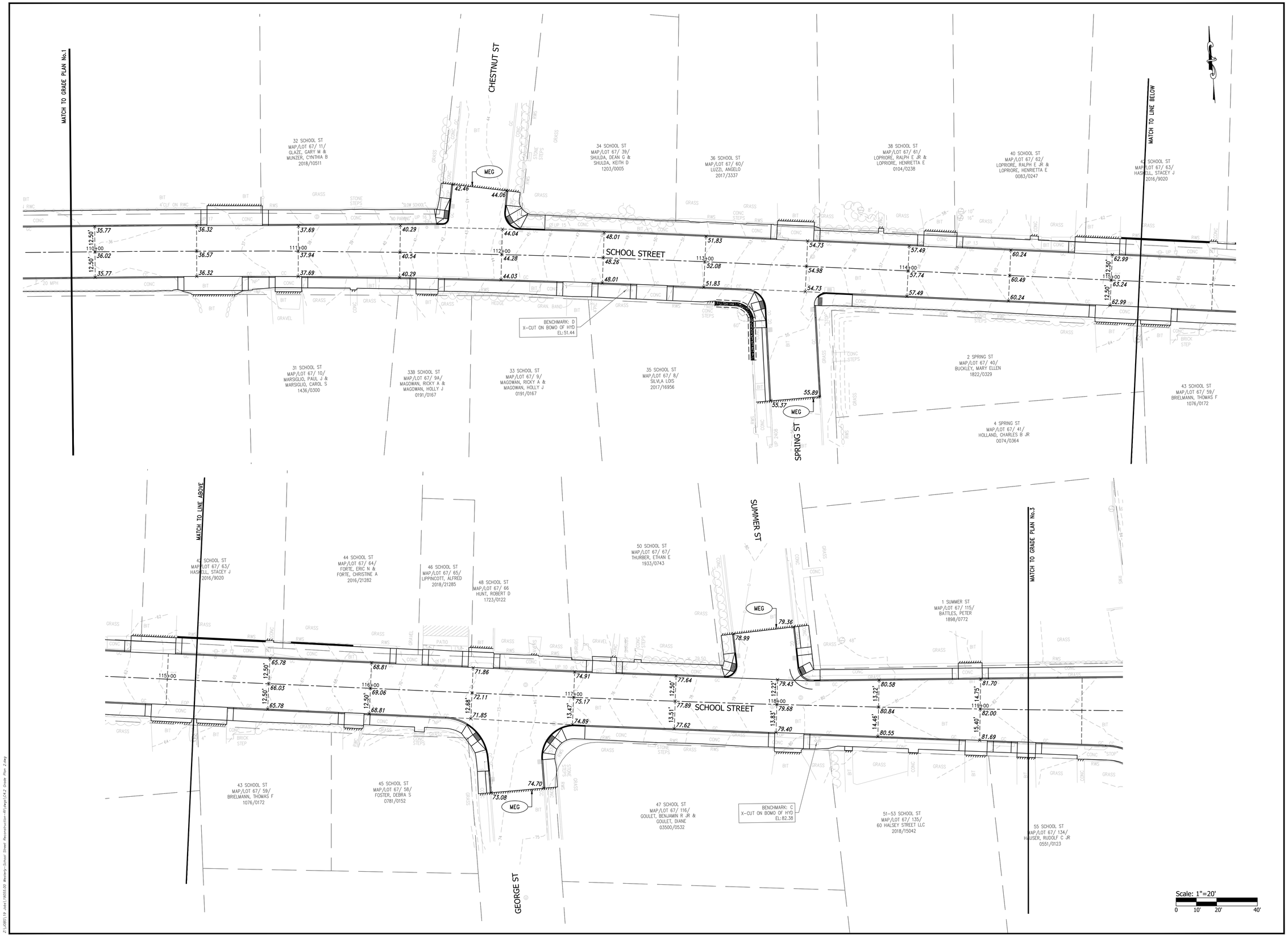
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
GRADE PLAN No.1

DRAWING NO.: C4.1

SHEET NO. 11 OF 33



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REVISIONS:

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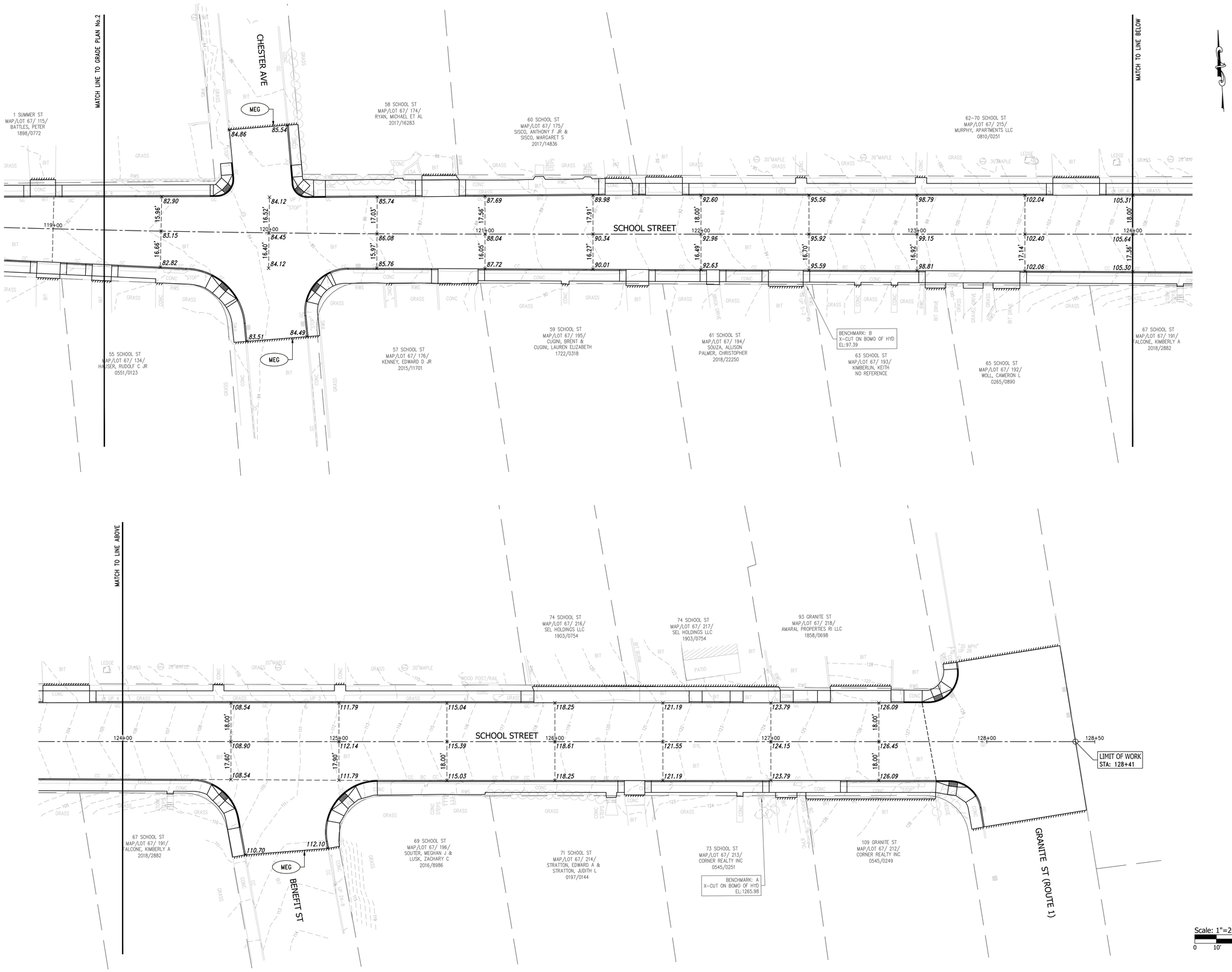
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
GRADE PLAN No.2

DRAWING NO.: C4.2

SHEET NO. 12 OF 33

Z:\2019\19 Jobs\19055.00 Westerly-School Street Reconstruction-Phase1\C4.2 Grade Plan 2.dwg



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REVISIONS:

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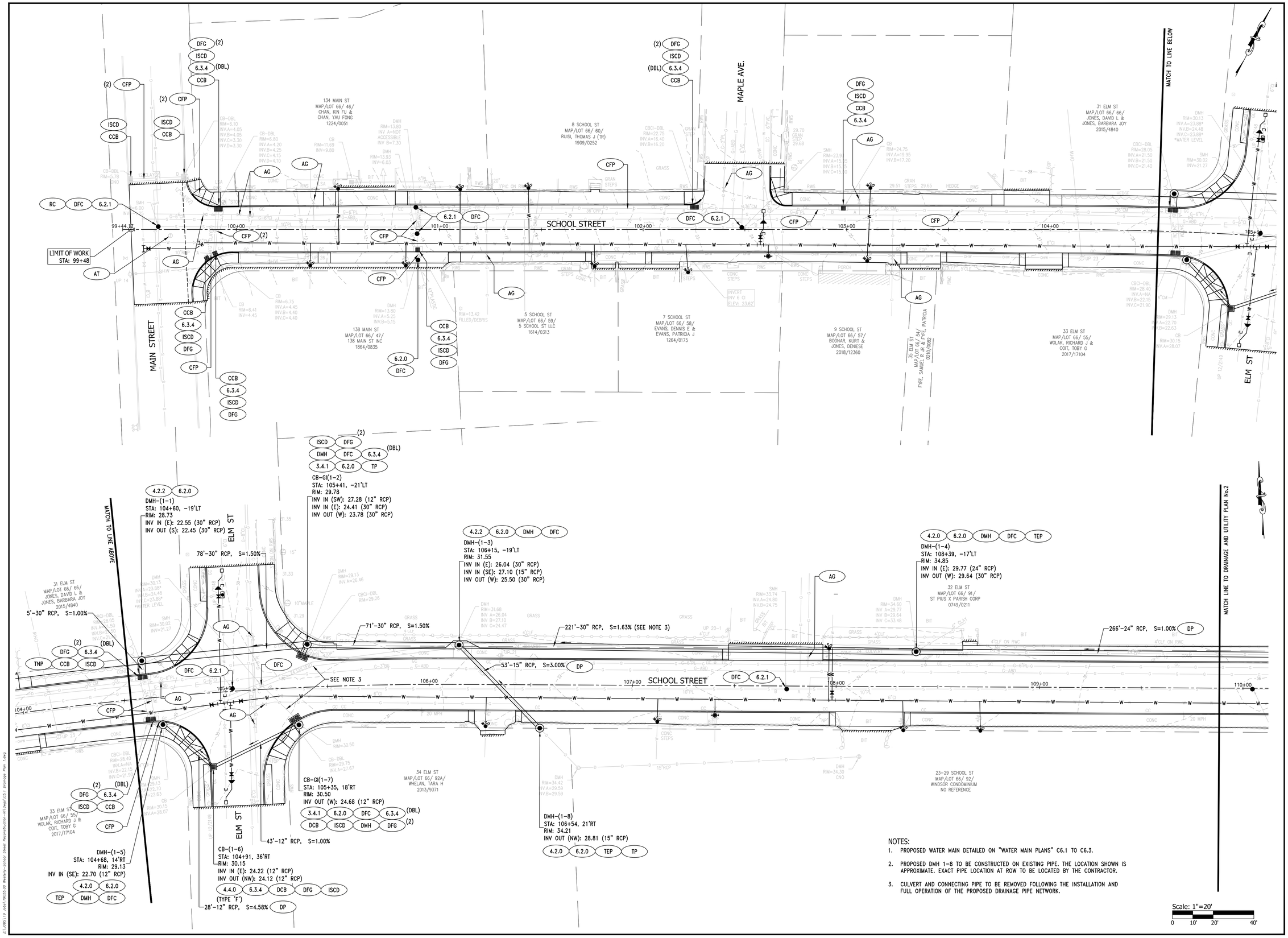
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
GRADE PLAN No.3

DRAWING NO.: C4.3

SHEET NO. 13 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\Dwgs\C4.3 Grade Plan 3.dwg



NOTES:

1. PROPOSED WATER MAIN DETAILED ON "WATER MAIN PLANS" C6.1 TO C6.3.
2. PROPOSED DMH 1-8 TO BE CONSTRUCTED ON EXISTING PIPE. THE LOCATION SHOWN IS APPROXIMATE. EXACT PIPE LOCATION AT ROW TO BE LOCATED BY THE CONTRACTOR.
3. CULVERT AND CONNECTING PIPE TO BE REMOVED FOLLOWING THE INSTALLATION AND FULL OPERATION OF THE PROPOSED DRAINAGE PIPE NETWORK.

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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

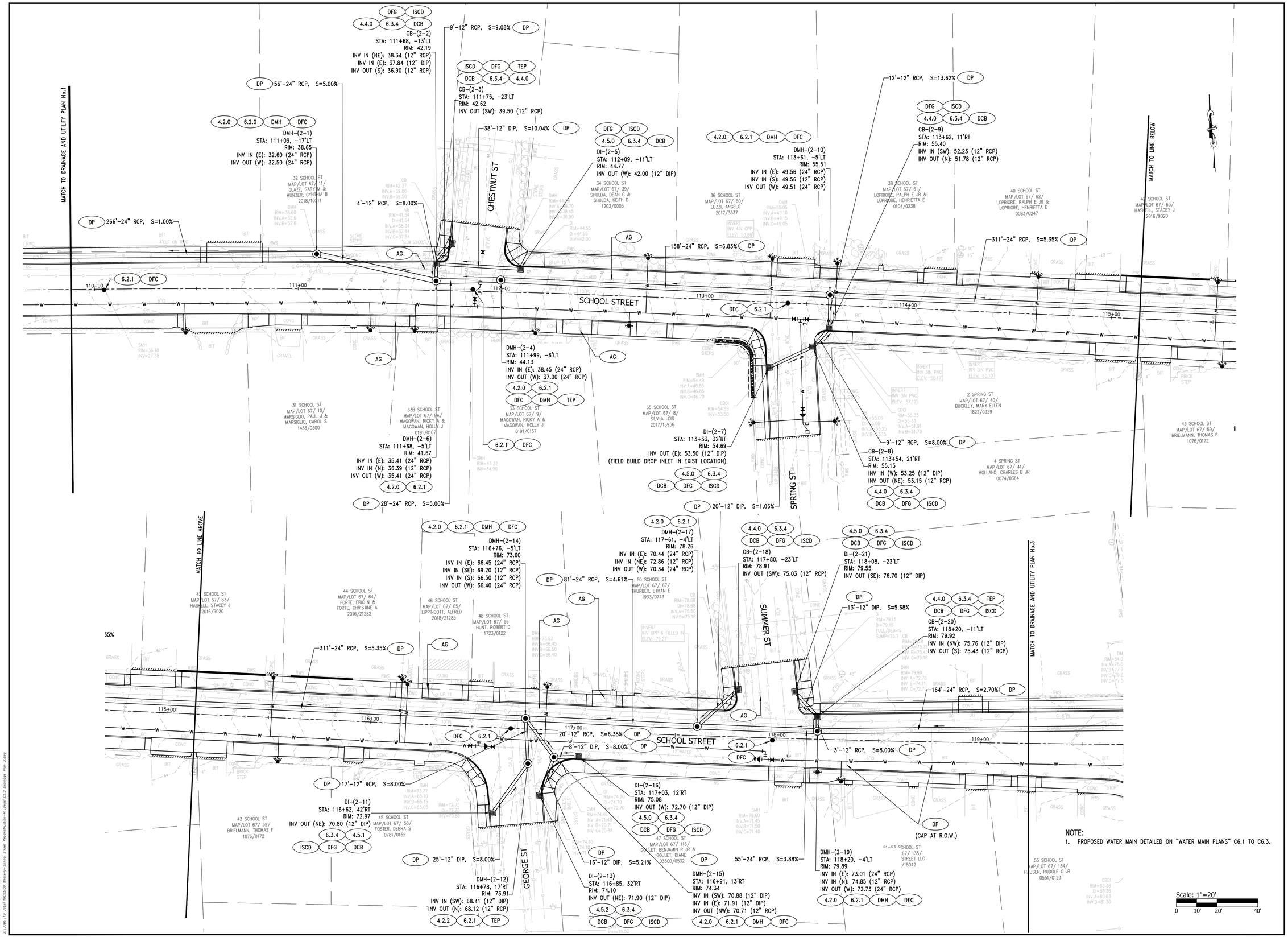
REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
DRAINAGE AND UTILITY PLAN No.1

DRAWING NO.: C5.1

SHEET NO. 14 OF 33



NOTE:

1. PROPOSED WATER MAIN DETAILED ON "WATER MAIN PLANS" C6.1 TO C6.3.

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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

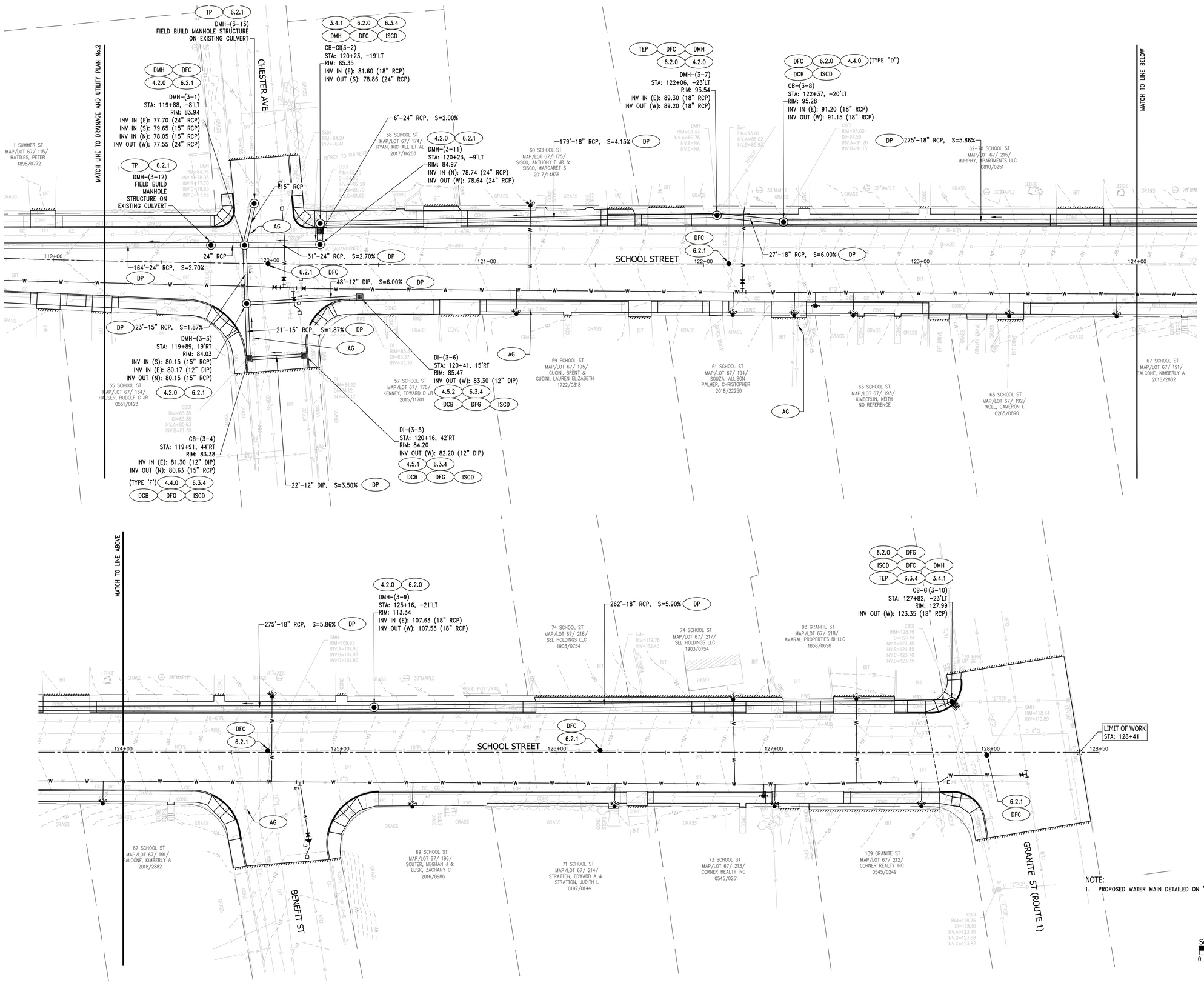
DRAWING TITLE:

DRAINAGE AND UTILITY PLAN No.2

DRAWING NO.: C5.2

SHEET NO. 15 OF 33

Z:\19055\18 Acad\19055.00 Westerly-School Street Reconstruction-RI\dwg\C5.2 Drainage Plan 2.dwg



NOTE:
1. PROPOSED WATER MAIN DETAILED ON "WATER MAIN PLANS" C6.1 TO C6.3.

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THE TOWN OF WESTERLY 1669 OFFICIAL SEAL

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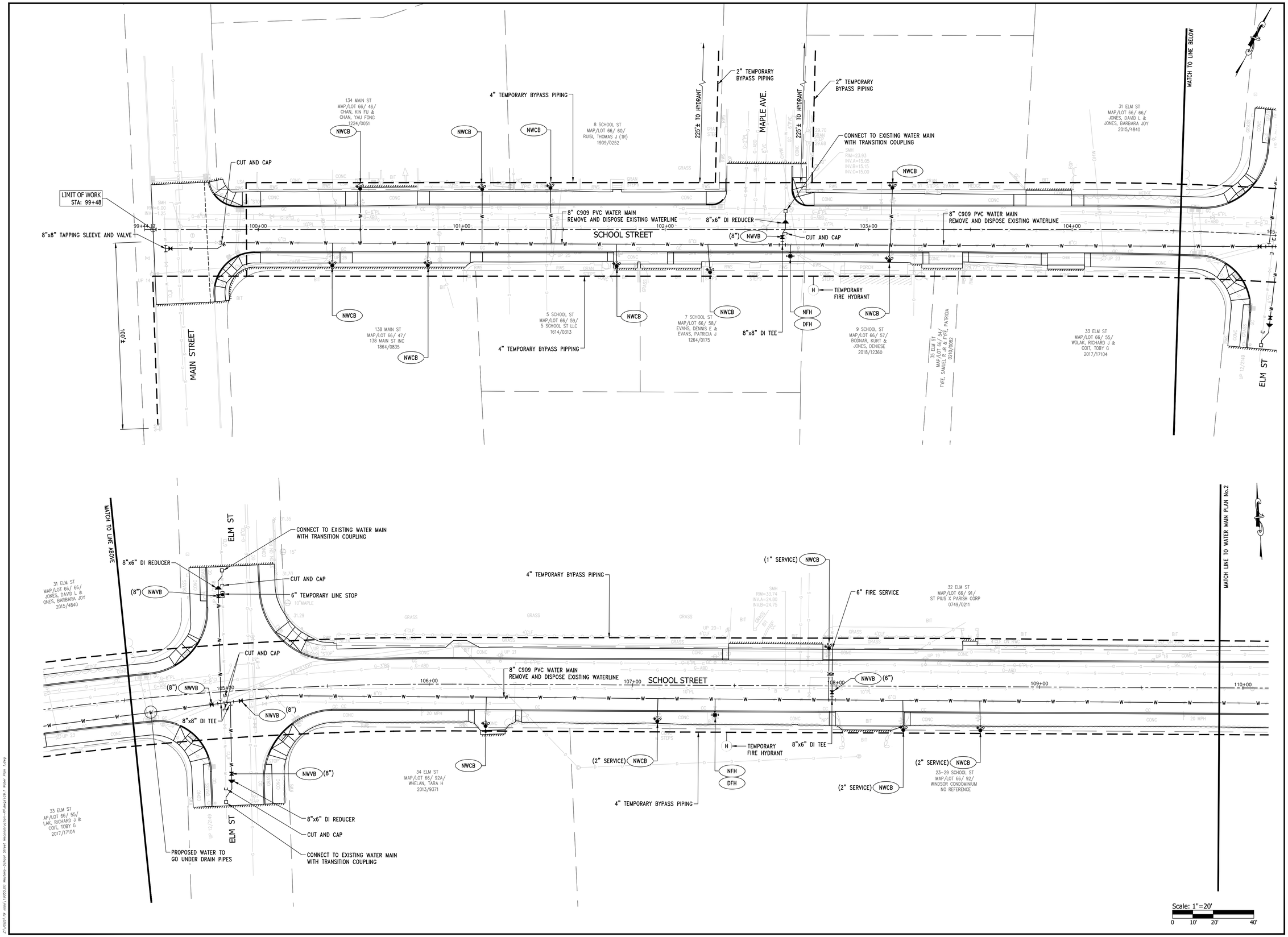
REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
DRAINAGE AND UTILITY PLAN No.3

DRAWING NO.: C5.3

SHEET NO. 16 OF 33



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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

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ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

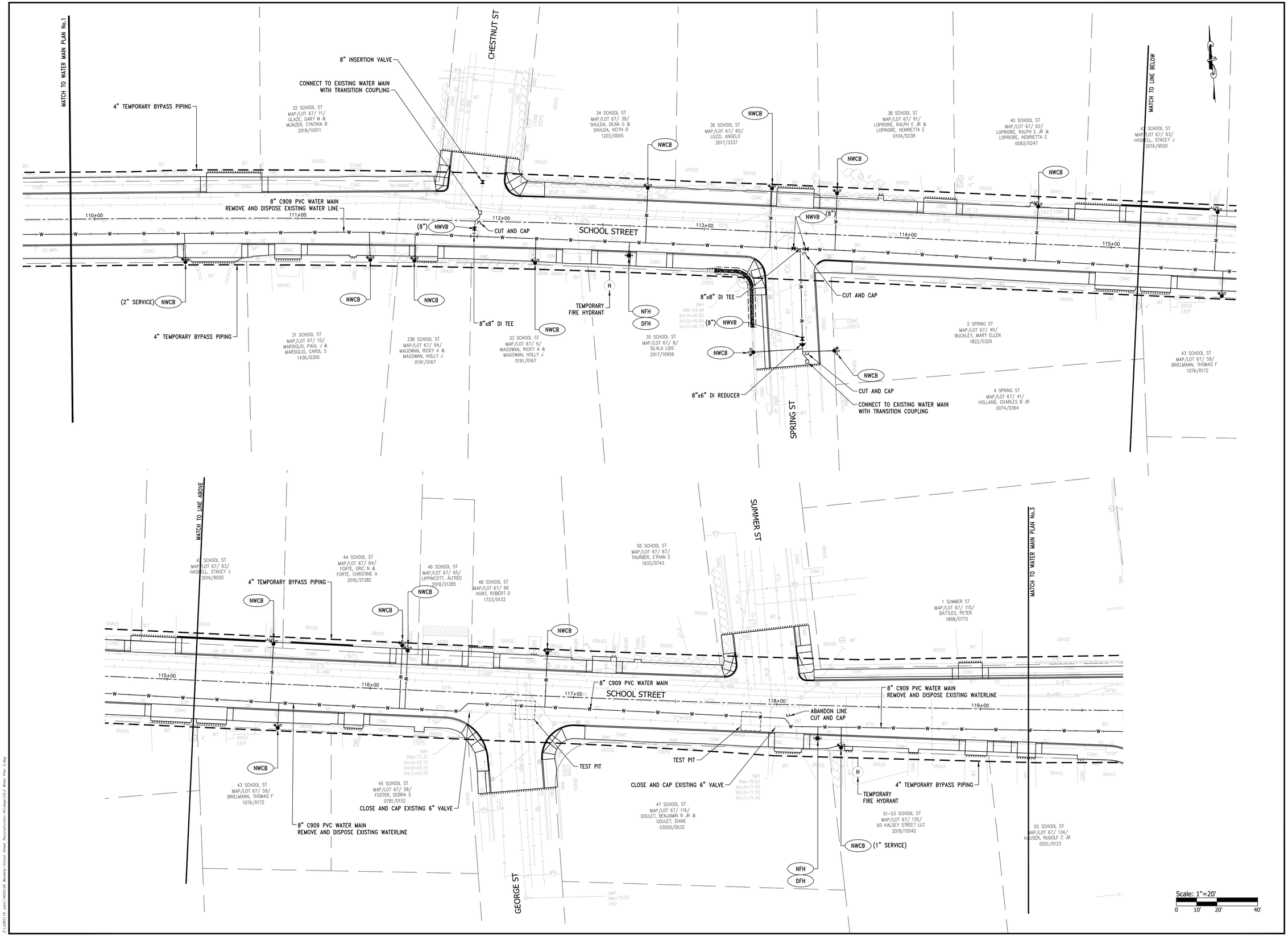
PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	KYL
CHECKED BY:	LMG
DRAWN BY:	RPB
APPROVED BY:	LMG

DRAWING TITLE:
WATER MAIN PLAN No.1

DRAWING NO.: C6.1

SHEET NO. 17 OF 33

Z:\2019\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\Layout\C6.1 Water Plan 1.dwg



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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

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SCALE:	1"=20'
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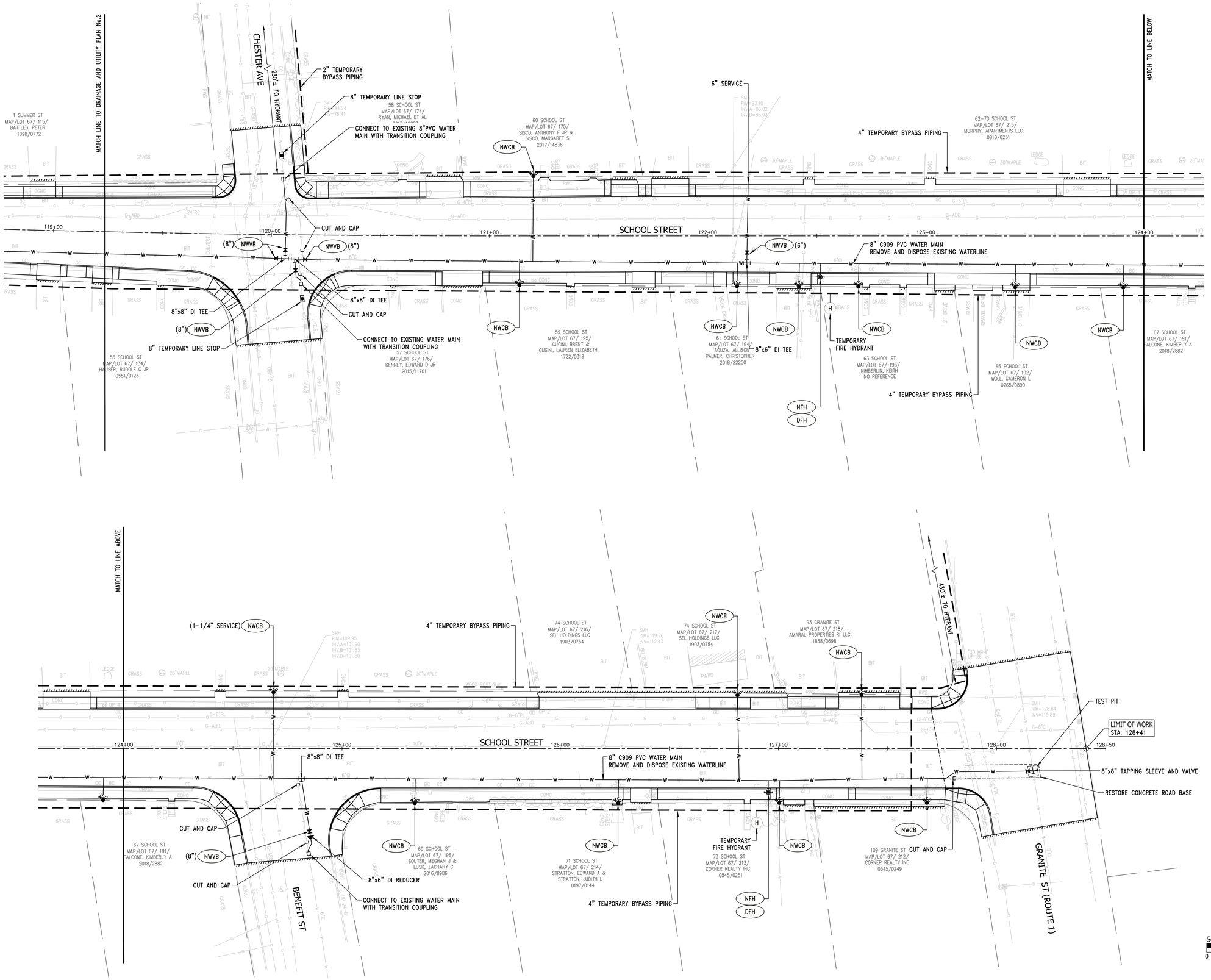
CHECKED BY:	LMG
DRAWN BY:	RPB
APPROVED BY:	LMG

DRAWING TITLE:
WATER MAIN PLAN No.2

DRAWING NO.: C6.2

SHEET NO. 18 OF 33

Z:\19055.19 Westerly School Street Reconstruction-RI\Dwg\C6.2 Water Plan 2.dwg



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SCALE:	1"=20'
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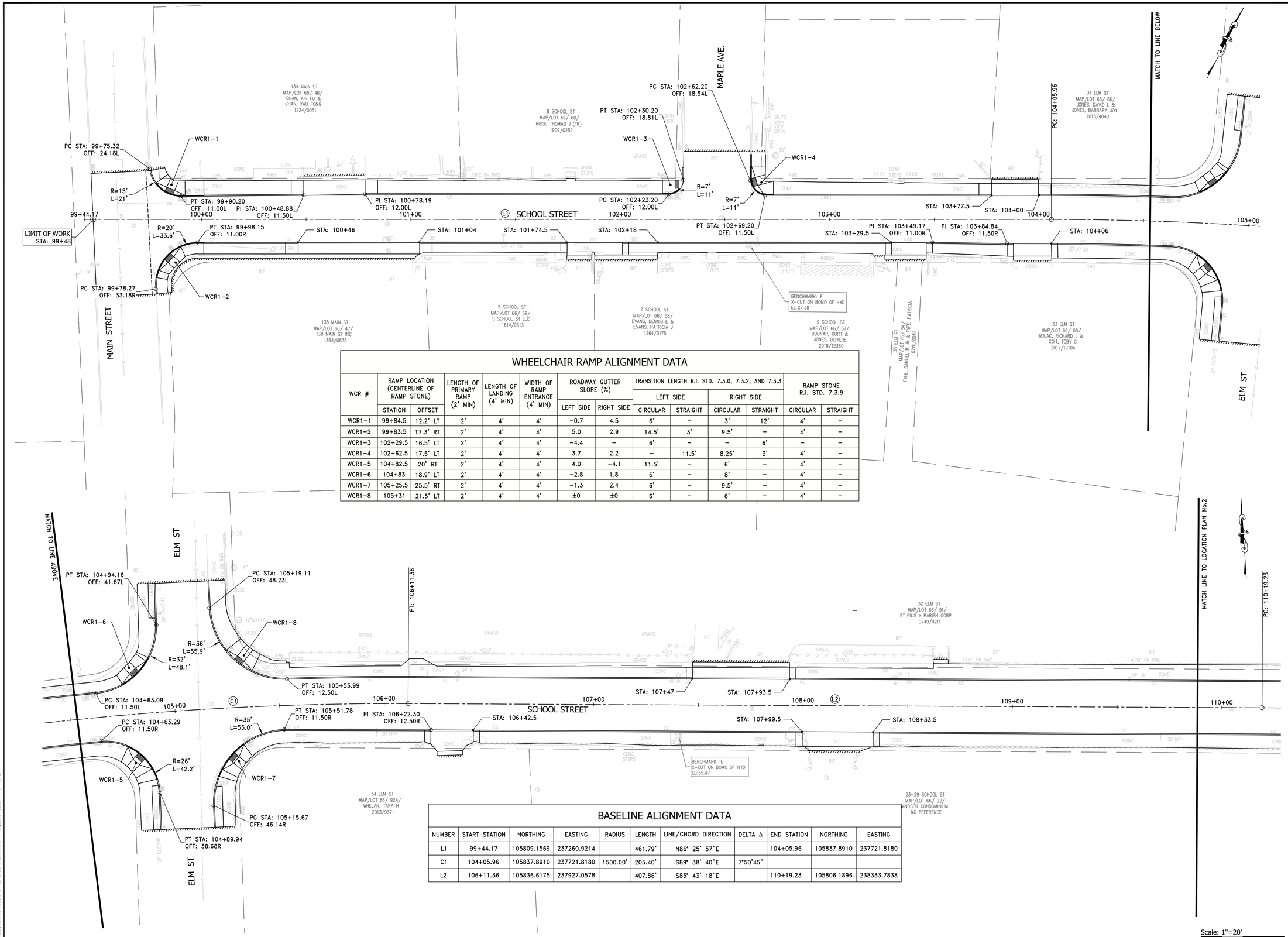
CHECKED BY:	LMG
DRAWN BY:	RPB
APPROVED BY:	LMG

DRAWING TITLE:
WATER MAIN PLAN No.3

DRAWING NO.: C6.3

SHEET NO. 19 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\Dwgs\C6.3 Water Plan 3.dwg



WHEELCHAIR RAMP ALIGNMENT DATA

WCR #	RAMP LOCATION (CENTERLINE OF RAMP STONE)		LENGTH OF PRIMARY RAMP (2' MIN)	LENGTH OF LANDING (4' MIN)	WIDTH OF RAMP ENTRANCE (4' MIN)	ROADWAY GUTTER SLOPE (%)		TRANSITION LENGTH R.I. STD. 7.3.0, 7.3.2, AND 7.3.3				RAMP STONE R.I. STD. 7.3.9	
								LEFT SIDE		RIGHT SIDE			
	STATION	OFFSET				LEFT SIDE	RIGHT SIDE	CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT
WCR1-1	99+84.5	12.2' LT	2'	4'	4'	-0.7	4.5	6'	–	3'	12'	4'	–
WCR1-2	99+83.5	17.3' RT	2'	4'	4'	5.0	2.9	14.5'	3'	9.5'	–	4'	–
WCR1-3	102+29.5	16.5' LT	2'	4'	4'	-4.4	–	6'	–	–	6'	–	–
WCR1-4	102+62.5	17.5' LT	2'	4'	4'	3.7	2.2	–	11.5'	8.25'	3'	4'	–
WCR1-5	104+82.5	20' RT	2'	4'	4'	4.0	-4.1	11.5'	–	6'	–	4'	–
WCR1-6	104+83	18.9' LT	2'	4'	4'	-2.8	1.8	6'	–	8'	–	4'	–
WCR1-7	105+25.5	25.5' RT	2'	4'	4'	-1.3	2.4	6'	–	9.5'	–	4'	–
WCR1-8	105+31	21.5' LT	2'	4'	4'	±0	±0	6'	–	6'	–	4'	–

BASELINE ALIGNMENT DATA

NUMBER	START STATION	NORTHING	EASTING	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA Δ	END STATION	NORTHING	EASTING
L1	99+44.17	105809.1569	237260.9214		461.79'	N86° 25' 57"E		104+05.96	105837.8910	237721.8180
C1	104+05.96	105837.8910	237721.8180	1500.00'	205.40'	S89° 38' 40"E	7°50'45"			
L2	106+11.36	105836.6175	237927.0578		407.86'	S85° 43' 18"E		110+19.23	105806.1896	238333.7838

Scale: 1"=20'
0 10' 20' 40'

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0" 1"
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SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

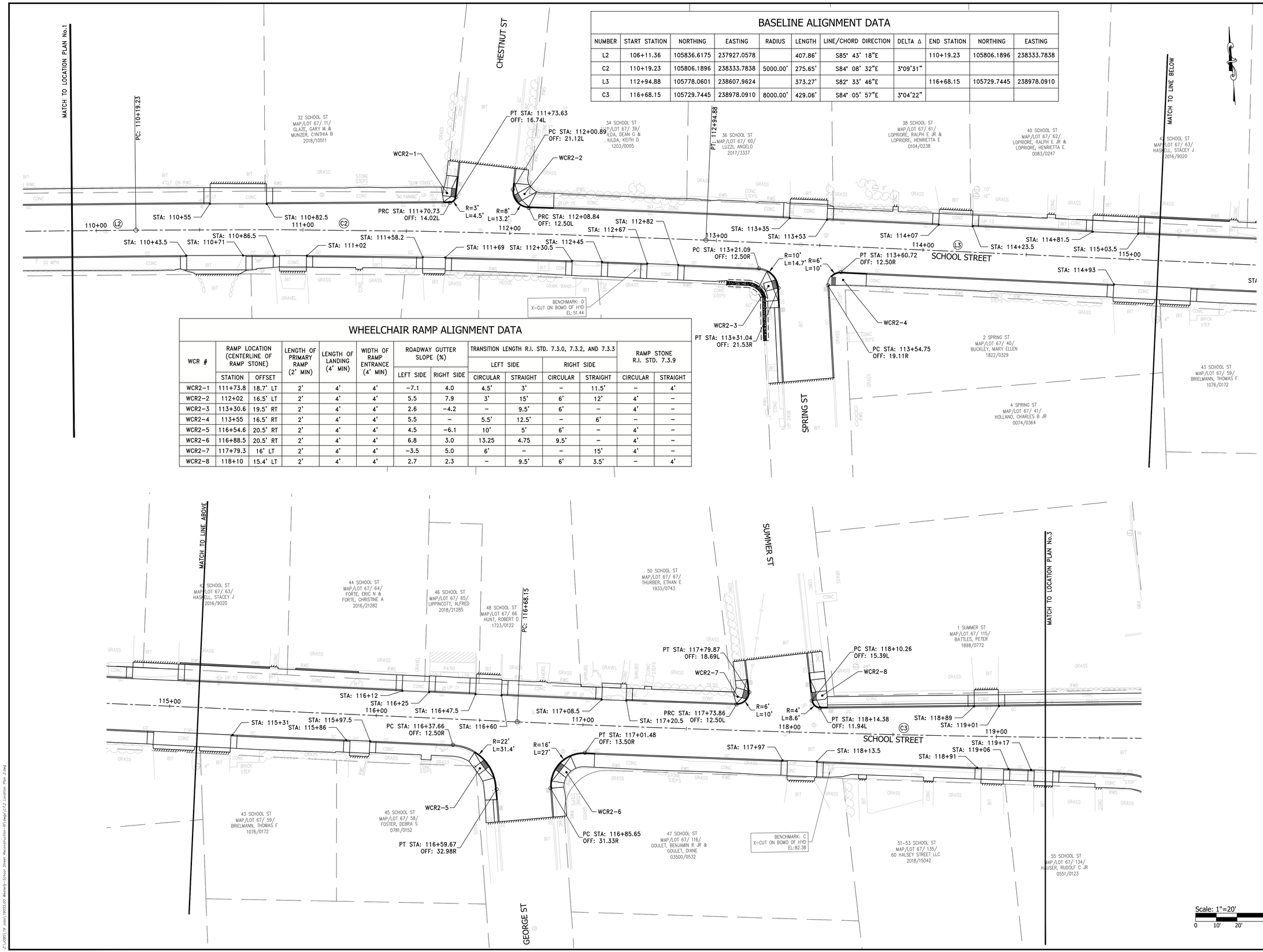
DRAWING TITLE:
LOCATION PLAN No.1

DRAWING NO.: C7.1

SHEET NO. 20 OF 33

BASELINE ALIGNMENT DATA

NUMBER	START STATION	NORTHING	EASTING	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA Δ	END STATION	NORTHING	EASTING
L2	106+11.36	105836.6175	237927.0578		407.86'	S85° 43' 18"E		110+19.23	105806.1896	238333.7838
C2	110+19.23	105806.1896	238333.7838	5000.00'	275.65'	S84° 08' 32"E	3°09'31"			
L3	112+94.88	105778.0601	238607.9624		373.27'	S82° 33' 46"E		116+68.15	105729.7445	238978.0910
C3	116+68.15	105729.7445	238978.0910	8000.00'	429.06'	S84° 05' 57"E	3°04'22"			



WHEELCHAIR RAMP ALIGNMENT DATA

WCR #	RAMP LOCATION (CENTERLINE OF RAMP STONE)		LENGTH OF PRIMARY RAMP (2' MIN)	LENGTH OF LANDING (4' MIN)	WIDTH OF RAMP ENTRANCE (4' MIN)	ROADWAY GUTTER SLOPE (%)		TRANSITION LENGTH R.I. STD. 7.3.0, 7.3.2, AND 7.3.3				RAMP STONE R.I. STD. 7.3.9	
								LEFT SIDE		RIGHT SIDE			
	STATION	OFFSET				LEFT SIDE	RIGHT SIDE	CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT
WCR2-1	111+73.8	18.7' LT	2'	4'	4'	-7.1	4.0	4.5'	3'	–	11.5'	–	4'
WCR2-2	112+02	16.5' LT	2'	4'	4'	5.5	7.9	3'	15'	6'	12'	4'	–
WCR2-3	113+30.6	19.5' RT	2'	4'	4'	2.6	-4.2	–	9.5'	6'	–	4'	–
WCR2-4	113+55	16.5' RT	2'	4'	4'	5.5	–	5.5'	12.5'	–	6'	–	–
WCR2-5	116+54.6	20.5' RT	2'	4'	4'	4.5	-6.1	10'	5'	6'	–	4'	–
WCR2-6	116+88.5	20.5' RT	2'	4'	4'	6.8	3.0	13.25	4.75	9.5'	–	4'	–
WCR2-7	117+79.3	16' LT	2'	4'	4'	-3.5	5.0	6'	–	–	15'	4'	–
WCR2-8	118+10	15.4' LT	2'	4'	4'	2.7	2.3	–	9.5'	6'	3.5'	–	4'

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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
LOCATION PLAN No.2

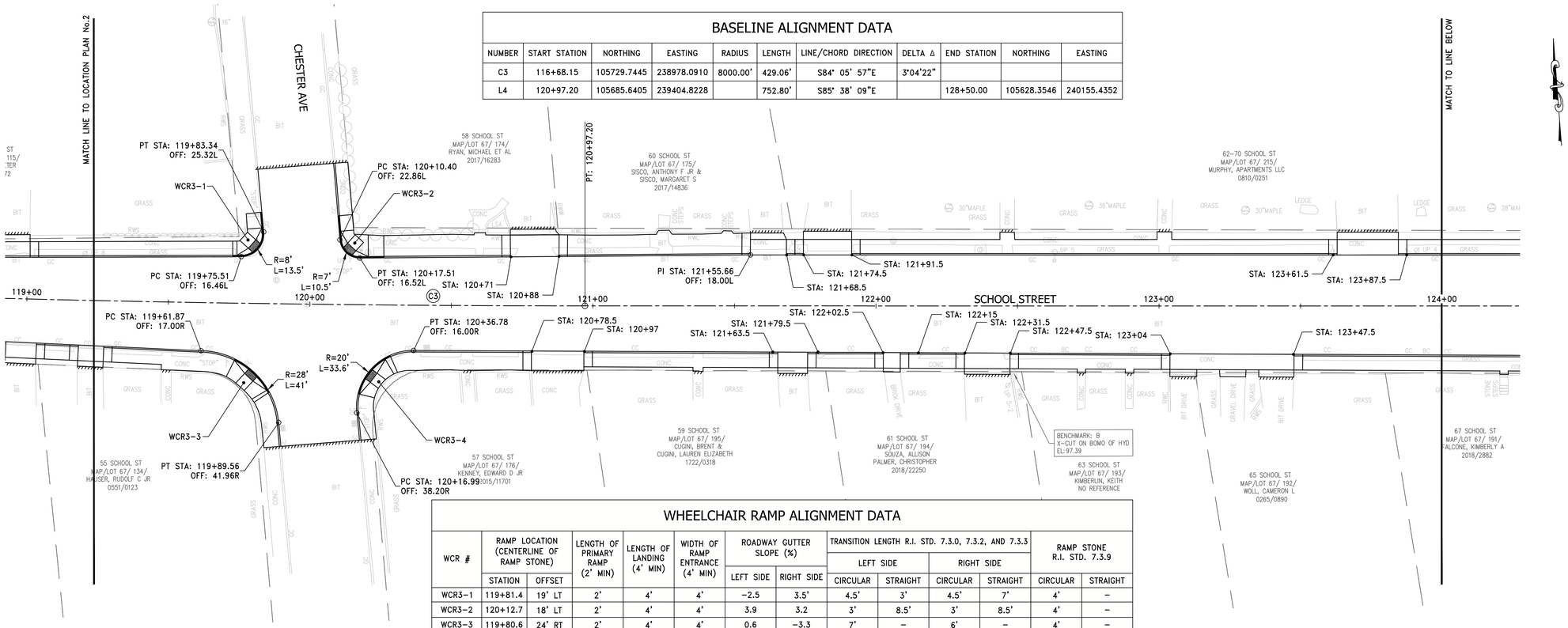
DRAWING NO.: C7.2

SHEET NO. 21 OF 33

Z:\19055\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\Dwg\C7.2 Location Plan 2.dwg

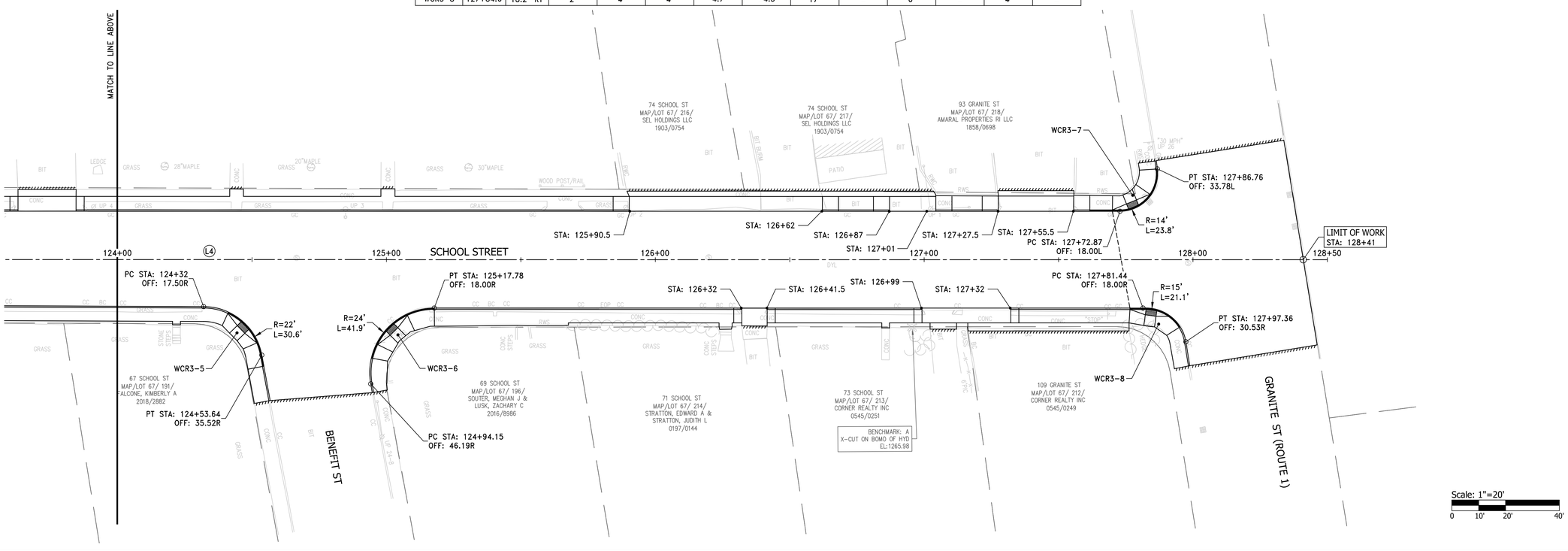
BASELINE ALIGNMENT DATA

NUMBER	START STATION	NORTHING	EASTING	RADIUS	LENGTH	LINE/CHORD DIRECTION	DELTA Δ	END STATION	NORTHING	EASTING
C3	116+68.15	105729.7445	238978.0910	8000.00'	429.06'	S84° 05' 57"E	3°04'22"			
L4	120+97.20	105685.6405	239404.8228		752.80'	S85° 38' 09"E		128+50.00	105628.3546	240155.4352



WHEELCHAIR RAMP ALIGNMENT DATA

WCR #	RAMP LOCATION (CENTERLINE OF RAMP STONE)		LENGTH OF PRIMARY RAMP (2' MIN)	LENGTH OF LANDING (4' MIN)	WIDTH OF RAMP ENTRANCE (4' MIN)	ROADWAY GUTTER SLOPE (%)		TRANSITION LENGTH R.I. STD. 7.3.0, 7.3.2, AND 7.3.3				RAMP STONE R.I. STD. 7.3.9	
								LEFT SIDE		RIGHT SIDE			
	STATION	OFFSET				LEFT SIDE	RIGHT SIDE	CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT
WCR3-1	119+81.4	19' LT	2'	4'	4'	-2.5	3.5'	4.5'	3'	4.5'	7'	4'	–
WCR3-2	120+12.7	18' LT	2'	4'	4'	3.9	3.2	3'	8.5'	3'	8.5'	4'	–
WCR3-3	119+80.6	24' RT	2'	4'	4'	0.6	-3.3	7'	–	6'	–	4'	–
WCR3-4	120+20.5	24' RT	2'	4'	4'	1.5	-2.8	8'	–	6'	–	4'	–
WCR3-5	124+47.8	24' RT	2'	4'	4'	4.9	-6.5	11'	4'	6'	–	4'	–
WCR3-6	125+01	24' RT	2'	4'	4'	4.8	3.9	16.5'	–	11.5'	–	4'	–
WCR3-7	127+80	20' LT	2'	4'	4'	-4.5	5.0	3.5'	3'	16.25'	–	4'	–
WCR3-8	127+84.6	18.2' RT	2'	4'	4'	4.7	-4.5	17'	–	6'	–	4'	–



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THE TOWN OF WESTERLY 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

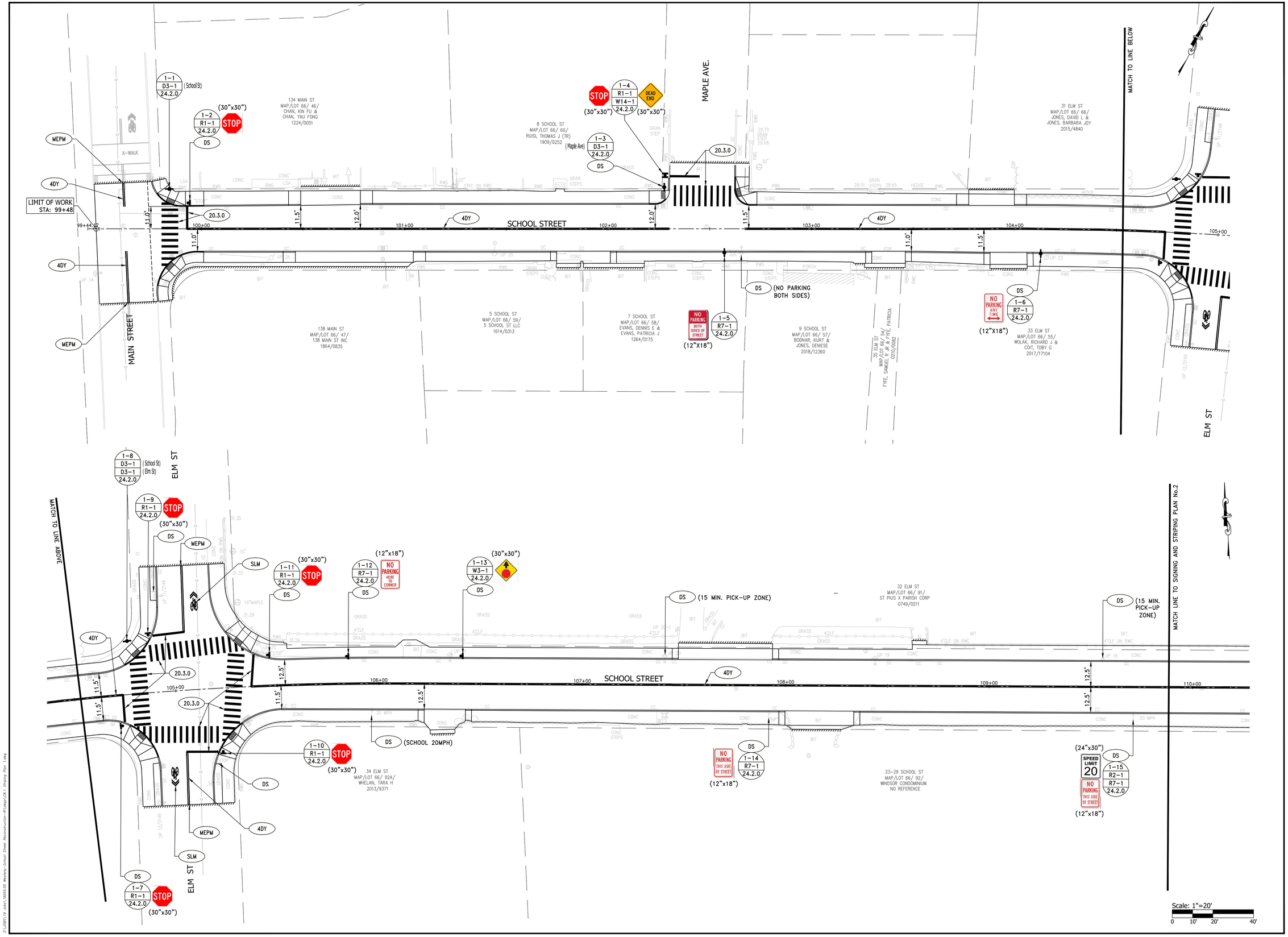
PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:

LOCATION PLAN No.3

DRAWING NO.: C7.3

SHEET NO. 22 OF 33



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THE TOWN OF WESTERLY 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
SIGNING AND STRIPING PLAN No.1

DRAWING NO.: C8.1

SHEET NO. 23 OF 33

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THE TOWN OF WESTERLY 1669 OFFICIAL SEAL

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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

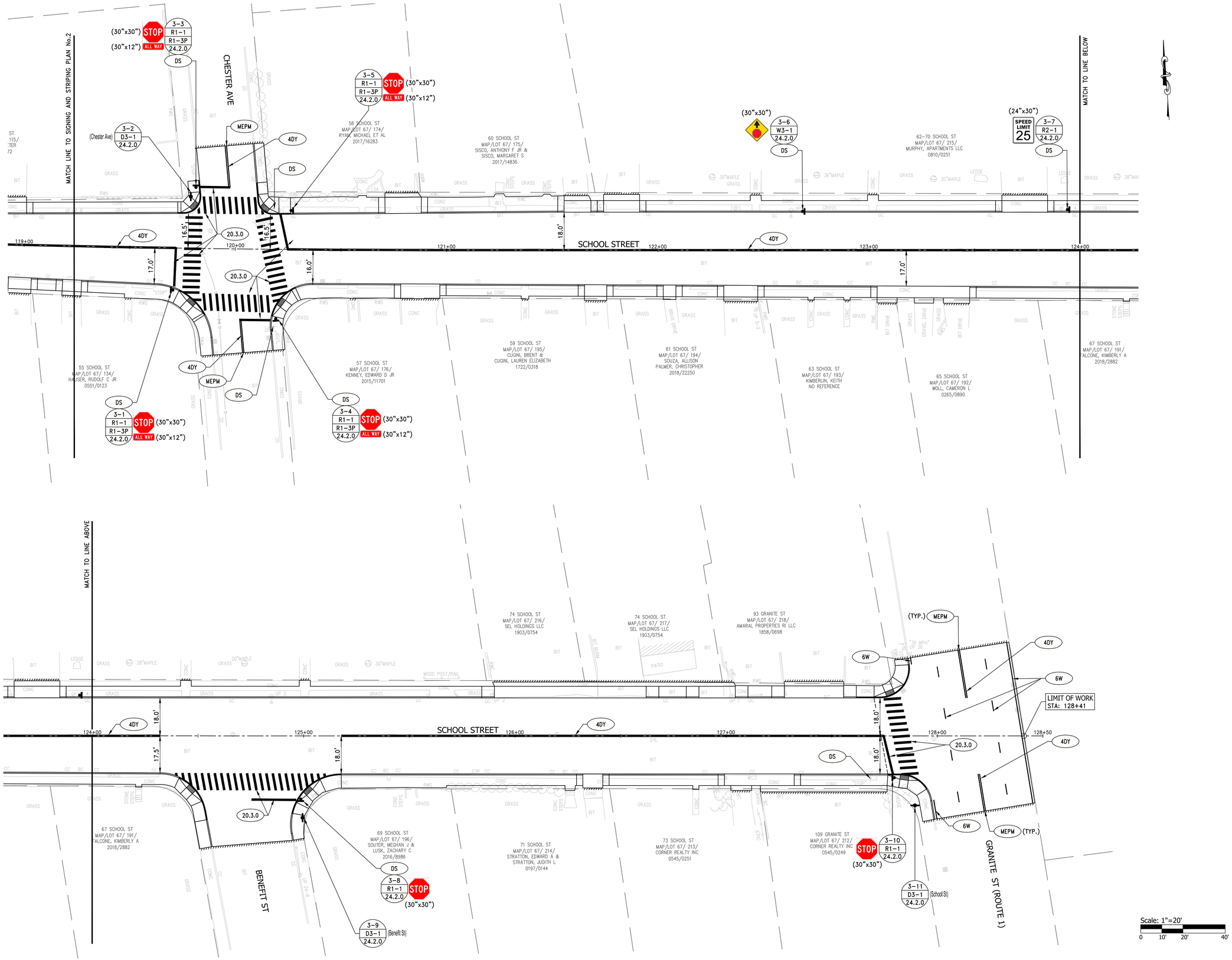
PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
SIGNING AND STRIPING PLAN No.2

DRAWING NO.: C8.2

SHEET NO. 24 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-Phase1\Dwg\C8.2 Striping Plan 2.dwg



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THE TOWN OF WESTERLY 1669 OFFICIAL SEAL R.I.

SCALE ADJUSTMENT GUIDE
0" 1"
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School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

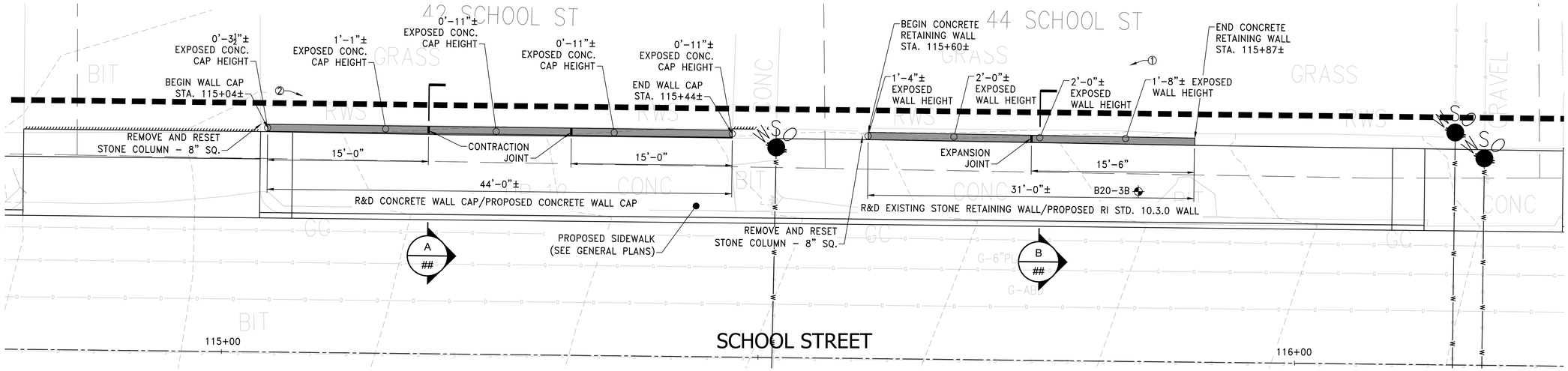
REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
SIGNING AND STRIPING PLAN No.3

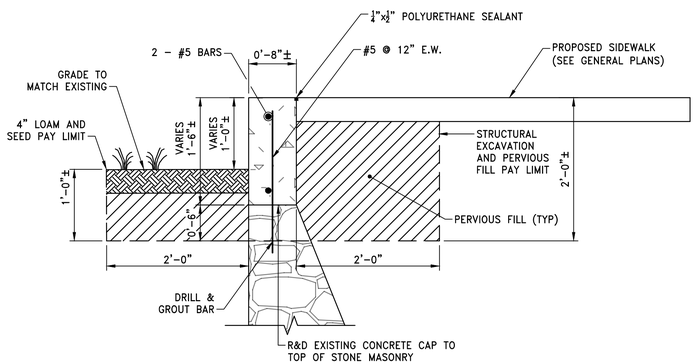
DRAWING NO.: C8.3

SHEET NO. 25 OF 33



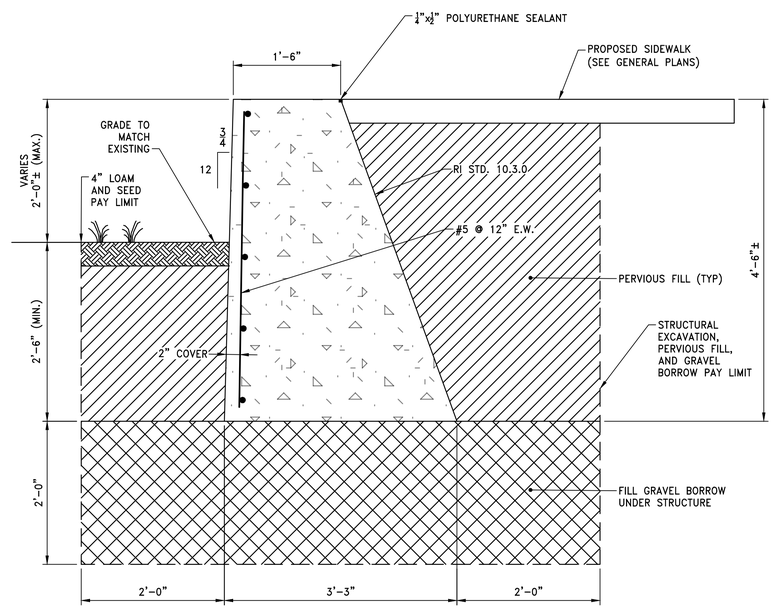
RETAINING WALL PLAN VIEW

SCALE: 1" = 5'-0"



SECTION A/26

SCALE: 1" = 1'-0"



SECTION B/26

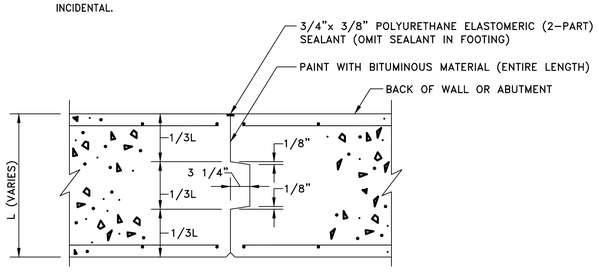
SCALE: 1" = 1'-0"

PHOTO 1

PHOTO 2

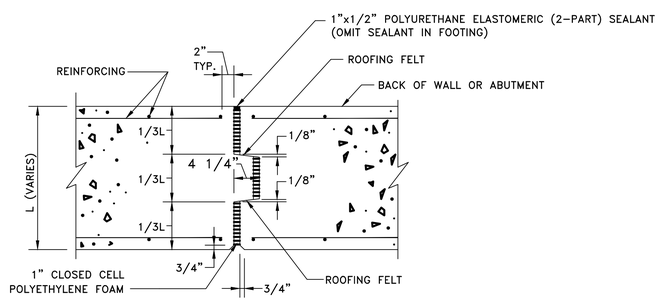
NOTES:

1. ALL WORK TO BE IN ACCORDANCE WITH THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED JUNE 2019.
2. ANY TEMPORARY EARTH SUPPORT NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND WILL NOT BE PAID FOR SEPARATELY.
3. ANY ROOTS ENCOUNTERED WITHIN THE STRUCTURAL EXCAVATION PAY LIMITS SHALL BE CUT AT THESE LIMITS AND REMOVED. ROOTS BEYOND THESE PAY LIMITS SHALL REMAIN IN PLACE. ROOT TRIMMING AND REMOVAL FOR THE WORK SHOWN ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO ITEM CODE 203.0100 "STRUCTURAL EXCAVATION EARTH."
4. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITH 4" LOAM AND SEED.
5. STONE COLUMNS SHALL BE REMOVED, STOCKPILED, AND RESET IN-KIND. THE CONTRATOR SHALL PROTECT THE COLUMNS FROM DAMAGE DURING ALL OPERATIONS.
6. POLYURETHANE SEALANT SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND WILL NOT BE PAID FOR SEPARATELY.
7. FURNISHING AND INSTALLING WALL JOINT MATERIALS (CLOSED-CELL FOAM, FELT, POLYURETHANE-ELASTOMERIC SEALANT, BITUMINOUS MATERIAL) SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
8. POLYURETHANE SEALANT BETWEEN THE WALLS AND SIDEWALK SHALL BE CONSIDERED INCIDENTAL.



CONTRACTION JOINT IN WALL CAP

SCALE: NOT TO SCALE



EXPANSION JOINT IN WALL

SCALE: NOT TO SCALE

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THE TOWN OF WESTERLY 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

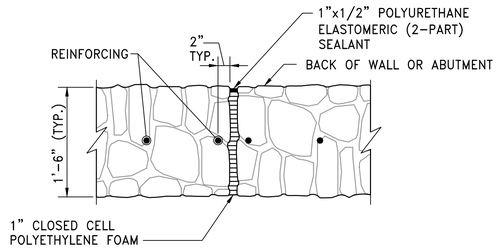
PROJECT NO.:	19055.00
DATE:	SE MARCH 2020
SCALE:	AS NOTED
DESIGNED BY:	TJG
CHECKED BY:	DJE
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:

WALL DETAIL No.1

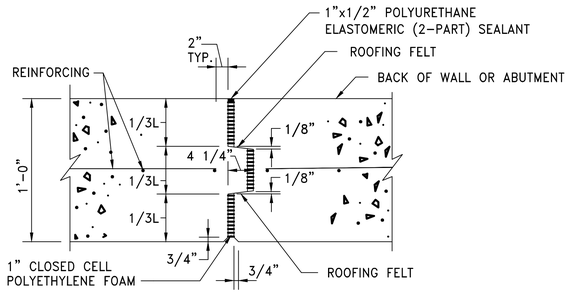
DRAWING NO.: C9.1

SHEET NO. 26 OF 33



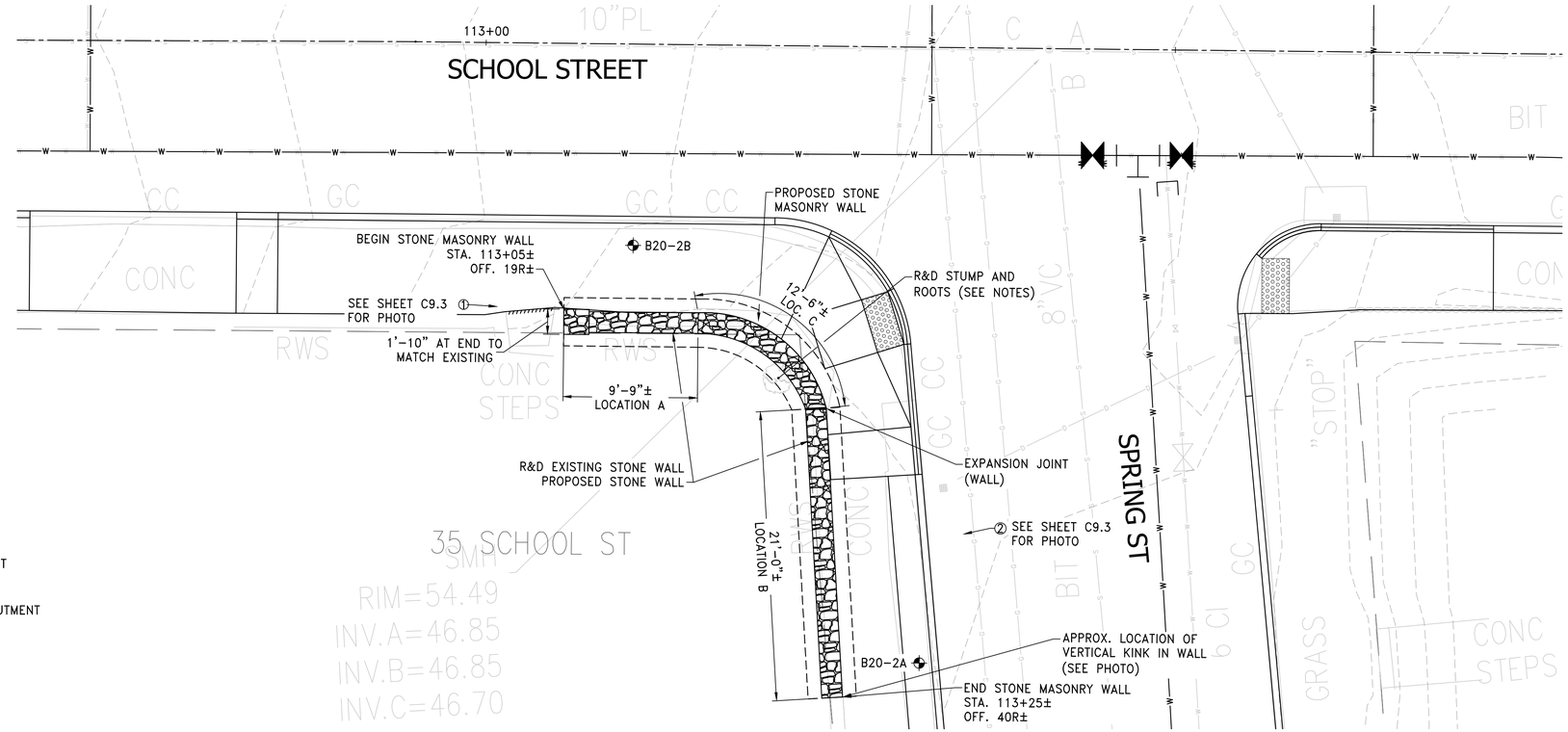
EXPANSION JOINT IN WALL

SCALE: NOT TO SCALE



EXPANSION JOINT IN FOOTING

SCALE: NOT TO SCALE

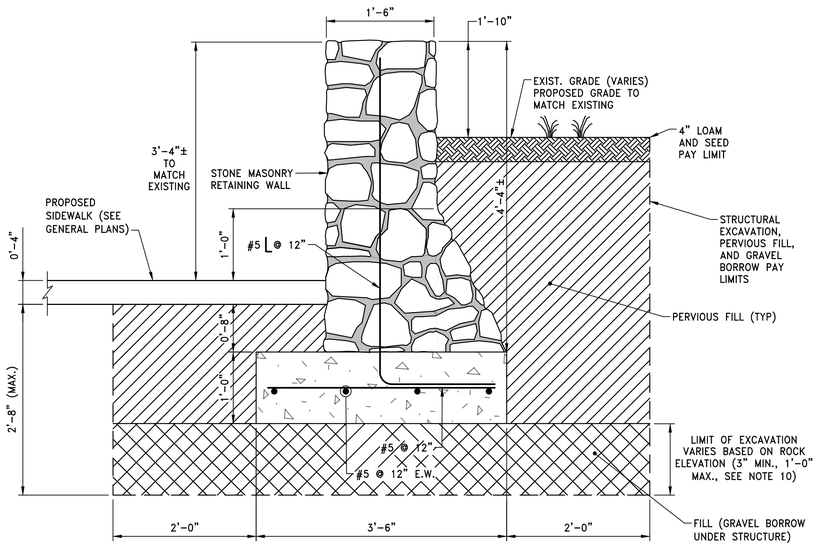


RETAINING WALL PLAN VIEW

SCALE: 1" = 5'-0"

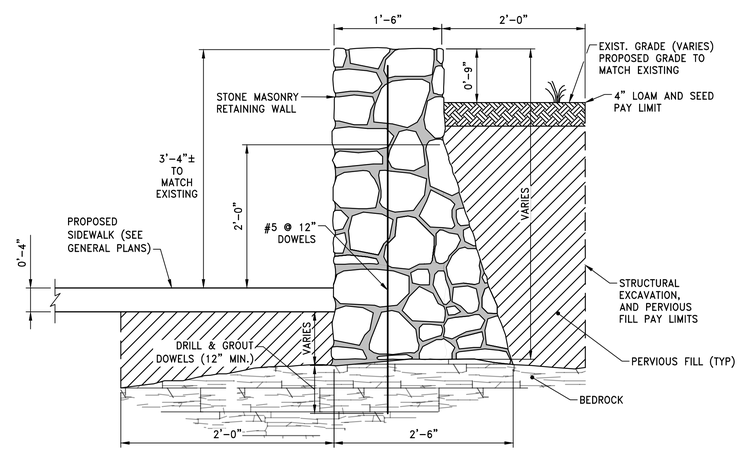
NOTES:

1. ALL WORK TO BE IN ACCORDANCE WITH THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED JUNE 2019.
2. ANY TEMPORARY EARTH SUPPORT NECESSARY SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND WILL NOT BE PAID FOR SEPARATELY.
3. ANY ROOTS ENCOUNTERED WITHIN THE STRUCTURAL EXCAVATION PAY LIMITS SHALL BE CUT AT THESE LIMITS AND REMOVED. ROOTS BEYOND THESE PAY LIMITS SHALL REMAIN IN PLACE AND SHALL NOT BE PULLED OUT. ROOT REMOVAL FOR THE WORK SHOWN ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO ITEM CODE 201.0302 "CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (24"OR PLUS)."
4. THE PROPOSED STONE WALL SHALL MATCH THE EXISTING AS CLOSE AS POSSIBLE IN SIZE, MORTAR COLOR, AND THE DISTRIBUTION OF STONE SIZE AND COLOR. SEE PHOTOS ON SHEET C9.3. SUBMIT MORTAR AND STONE SAMPLES FOR APPROVAL PRIOR TO CONSTRUCTION. STONES NOT EXPOSED IN THE FINAL CONDITION SHALL BE ANGULAR.
5. THE CONTRACTOR MAY ELECT TO REUSE EXISTING STONES PROVIDED ALL EXISTING MORTAR IS CLEANED FROM THE STONES WITH NO DAMAGE TO PORTIONS OF THE STONES TO REMAIN EXPOSED.
6. ALL MASONRY WORK SHALL BE PERFORMED BY A QUALIFIED MASONRY CONTRACTOR. THE MASONRY CONTRACTOR SHALL HAVE STONE MASONS WITH DEMONSTRATED PROFICIENCY IN STONE MASONRY CONSTRUCTION/RECONSTRUCTION PRACTICES. DOCUMENTATION IN THE FORM OF PROFESSIONAL CERTIFICATIONS AND THE LOCATION OF AT LEAST THREE SUCCESSFULLY COMPLETED STONE WALLS OF A SIMILAR TYPE TO THE WORK TO BE PERFORMED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE DOCUMENTATION MUST BE APPROVED BY THE ENGINEER PRIOR TO THE MASONRY CONTRACTOR BEING PERMITTED TO BEGIN THE WORK. THE APPROVED MASONS ARE TO COMPLETE THE ENTIRE WORK ITEM FOR WHICH APPROVAL WAS GIVEN.
7. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITH 4" LOAM AND SEED.
8. FURNISHING AND INSTALLING WALL JOINT MATERIALS (CLOSED-CELL FOAM, FELT, POLYURETHANE-ELASTOMERIC SEALANT) SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
9. THE BACKFILL ELEVATION AND WALL DETAILS FOR LOCATION C SHALL TRANSITION BETWEEN THOSE FOR LOCATIONS A AND B. LIMITS FOR EACH LOCATION SHALL BE ADJUSTED BASED ON ACTUAL ROCK ELEVATIONS ALONG THE WALL.
10. WHERE THERE IS LESS THAN 3" BETWEEN PROPOSED BOTTOM OF CONCRETE FOOTING AND ROCK, USE THE LOCATION A DETAIL.



RETAINING WALL SECTION - LOCATION B

SCALE: 1" = 1'-0"



RETAINING WALL SECTION - LOCATION A

SCALE: 1" = 1'-0"

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SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street

Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SE MARCH 2020
SCALE:	NOT TO SCALE
DESIGNED BY:	TJG
CHECKED BY:	DJE
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:

WALL DETAIL No.2

DRAWING NO.: C9.2

SHEET NO. 27 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-MI\dwgs\C9.2 Wall Detail 2.dwg

Pare Corporation
10 Lincoln Road, Suite 210
Foxboro, MA 02035
T: 508-543-1755
F: 508-543-1881

BORING NUMBER B20-2B

PAGE 1 OF 1

CLIENT Town of Westerly
PROJECT NAME School Street Reconstruction
PROJECT NUMBER 19055.00
PROJECT LOCATION Westerly, RI
DATE STARTED 2/24/20 **COMPLETED** 2/24/20
GROUND ELEVATION 53 ft **HOLE SIZE** 4 in.
DRILLING CONTRACTOR Northern Drill Service, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Wash & Drive
AT TIME OF DRILLING ---
LOGGED BY KAD **CHECKED BY** RKM
AT END OF DRILLING ---
BORING LOCATION SEE DRAINAGE AND UTILITY PLAN NO. 2

ESTIMATED BOT. OF FOOTING EL. 51.0±

DEPTH (ft)	CASING (blf/ft)	SAMPLE TYPE NUMBER	RECOVERY/PEN. (in)	DEPTH (FT)	BLOW COUNTS/6"	MIN/FT	GRAPHIC LOG	SAMPLE DESCRIPTION	STRATUM DESCRIPTION
0		S-1	9 / 9	0 - 0.75	24-100/3"			1A: (6") Moist, medium dense, gray, fine to coarse SAND and fine to coarse GRAVEL, trace silt.	FILL
			/	0.75 - 2	Rollerbit			1B: (3") Gray, weathered GNEISS recovered as fine to coarse SAND.	GNEISS
								Weathered GNEISS.	
								Bottom of borehole at 2.0 feet.	
5									
10									
15									
20									
25									

GRANULAR SOILS BLOWS/FT	DENSITY	COHESIVE SOILS BLOWS/FT	CONSIST.
0 - 4	V. LOOSE	<2	V. SOFT
4 -10	LOOSE	2 - 4	SOFT
10 - 30	M. DENSE	4 - 8	M. STIFF
30 - 50	DENSE	8 - 15	STIFF
>50	V. DENSE	15 - 30	V. STIFF
		>30	HARD

REMARKS:
1. Sidewalk has a 2" to 3" thick concrete slab on top of FILL.
2. Rollerbitted from 0.75' to 2' into GNEISS then stopped borehole at 2'.

BURMISTER CLASSIFICATION	
TRACE	0 -10%
LITTLE	10 - 20%
SOME	20 - 35%
AND	35 - 50%
PERCENT BY WEIGHT	

NOTES: 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

Pare Corporation
10 Lincoln Road, Suite 210
Foxboro, MA 02035
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F: 508-543-1881

BORING NUMBER B20-2A

PAGE 1 OF 1

CLIENT Town of Westerly
PROJECT NAME School Street Reconstruction
PROJECT NUMBER 19055.00
PROJECT LOCATION Westerly, RI
DATE STARTED 2/24/20 **COMPLETED** 2/24/20
GROUND ELEVATION 56 ft **HOLE SIZE** 4 in.
DRILLING CONTRACTOR Northern Drill Service, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Wash & Drive
AT TIME OF DRILLING ---
LOGGED BY KAD **CHECKED BY** RKM
AT END OF DRILLING 3.50 ft / Elev 52.50 ft
BORING LOCATION SEE DRAINAGE AND UTILITY PLAN NO. 2

ESTIMATED BOT. OF FOOTING EL. 53.0±

DEPTH (ft)	CASING (blf/ft)	SAMPLE TYPE NUMBER	RECOVERY/PEN. (in)	DEPTH (FT)	BLOW COUNTS/6"	MIN/FT	GRAPHIC LOG	SAMPLE DESCRIPTION	STRATUM DESCRIPTION
0		S-1	7 / 24	0 - 2	3-4-4-10 (8)			Dry, loose, dark brown SILT, some fine to coarse sand, trace fine to coarse gravel, trace roots.	TOPSOIL/FILL
		S-2	11 / 24	2 - 4	18-22-40-46 (62)			Dry, very dense, brown, fine to coarse SAND, some fine to coarse gravel, trace silt.	GLACIAL TILL
5		S-3	16 / 24	4 - 6	21-29-34-39 (63)			Moist, very dense, brown, fine to coarse SAND and fine to coarse GRAVEL, little silt.	
		S-4	6 / 10	6 - 7	35-100/4"			Moist, very dense, red to brown, fine to coarse SAND, little silt.	
			/	7 - 8	Rollerbit			Weathered GNEISS.	GNEISS
								Bottom of borehole at 8.0 feet.	
10									
15									
20									
25									

GRANULAR SOILS BLOWS/FT	DENSITY	COHESIVE SOILS BLOWS/FT	CONSIST.
0 - 4	V. LOOSE	<2	V. SOFT
4 -10	LOOSE	2 - 4	SOFT
10 - 30	M. DENSE	4 - 8	M. STIFF
30 - 50	DENSE	8 - 15	STIFF
>50	V. DENSE	15 - 30	V. STIFF
		>30	HARD

REMARKS:
1.Rollerbitted from 7' to 8' into GNEISS then stopped borehole at 8'.

BURMISTER CLASSIFICATION	
TRACE	0 -10%
LITTLE	10 - 20%
SOME	20 - 35%
AND	35 - 50%
PERCENT BY WEIGHT	

NOTES: 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

Pare Corporation
10 Lincoln Road, Suite 210
Foxboro, MA 02035
T: 508-543-1755
F: 508-543-1881

BORING NUMBER B20-3B

PAGE 1 OF 1

CLIENT Town of Westerly
PROJECT NAME School Street Reconstruction
PROJECT NUMBER 19055.00
PROJECT LOCATION Westerly, RI
DATE STARTED 2/24/20 **COMPLETED** 2/24/20
GROUND ELEVATION 68 ft **HOLE SIZE** 4 in.
DRILLING CONTRACTOR Northern Drill Service, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Wash & Drive
AT TIME OF DRILLING ---
LOGGED BY KAD **CHECKED BY** RKM
AT END OF DRILLING 3.20 ft / Elev 64.80 ft
BORING LOCATION SEE DRAINAGE AND UTILITY PLAN NO. 2

ESTIMATED BOT. OF FOOTING VARIES EL. 61.5± TO 63.5±

DEPTH (ft)	CASING (blf/ft)	SAMPLE TYPE NUMBER	RECOVERY/PEN. (in)	DEPTH (FT)	BLOW COUNTS/6"	MIN/FT	GRAPHIC LOG	SAMPLE DESCRIPTION	STRATUM DESCRIPTION
0		S-1	11 / 24	0 - 2	6-5-6-9 (11)			1A: (4.5") Dry, medium dense, brown, fine to coarse SAND, trace root. 1B: (7") Dry, medium dense, gray to black, fine to coarse SAND and fine to coarse GRAVEL.	FILL
		S-2	18 / 24	2 - 4	11-15-15-15 (30)			2A: (4") Dry, medium dense, brown, fine to coarse SAND. 2B: (5") Dry, medium dense, black, fine to coarse SAND, some fine to coarse gravel, little organics.	GLACIAL TILL
5		S-3	14 / 24	4 - 6	10-14-13-17 (27)			2C: (9") Dry, medium dense, gray to brown, fine to coarse SAND and SILT, some fine to coarse gravel. Wet, very stiff, brown to dark brown SILT, little fine to coarse sand, orange staining.	
		S-4	9 / 24	6 - 8	13-12-18-13 (30)			Wet, very stiff, brown SILT and fine SAND, little medium to coarse sand, orange staining.	
		S-5	8 / 24	8 - 10	12-14-24-16 (38)			Wet, dense, brown, fine to coarse SAND, some fine to medium gravel.	
								Bottom of borehole at 10.0 feet.	
10									
15									
20									
25									

GRANULAR SOILS BLOWS/FT	DENSITY	COHESIVE SOILS BLOWS/FT	CONSIST.
0 - 4	V. LOOSE	<2	V. SOFT
4 -10	LOOSE	2 - 4	SOFT
10 - 30	M. DENSE	4 - 8	M. STIFF
30 - 50	DENSE	8 - 15	STIFF
>50	V. DENSE	15 - 30	V. STIFF
		>30	HARD

REMARKS:

BURMISTER CLASSIFICATION	
TRACE	0 -10%
LITTLE	10 - 20%
SOME	20 - 35%
AND	35 - 50%
PERCENT BY WEIGHT	

NOTES: 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

PHOTO 1 - LOCATION A

PHOTO 2 - LOCATION B

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SE MARCH 2020
SCALE:	NOT TO SCALE
DESIGNED BY:	TJG
CHECKED BY:	DJE
DRAWN BY:	RPB
APPROVED BY:	JPS

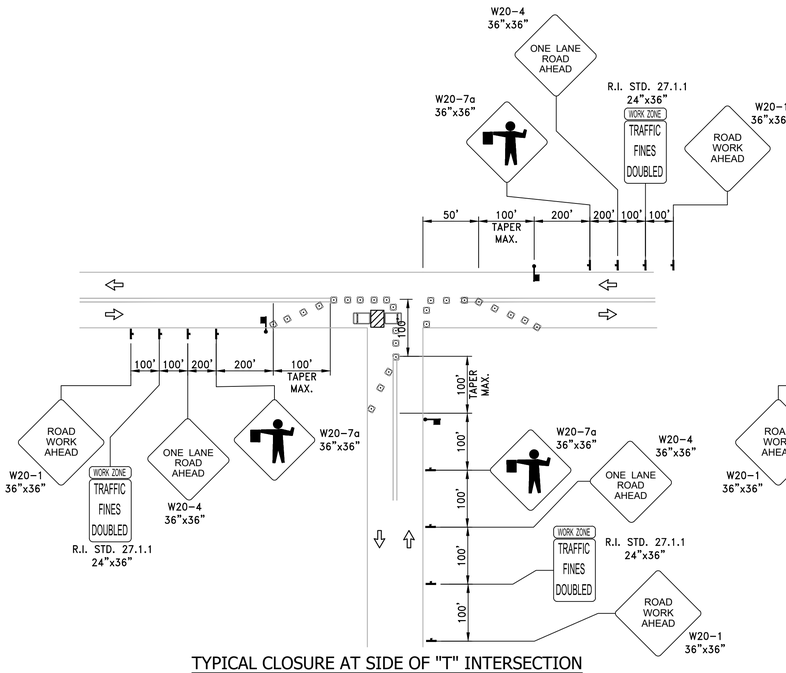
DRAWING TITLE:
BORING LOGS AND WALL PHOTOS

DRAWING NO.: C9.3

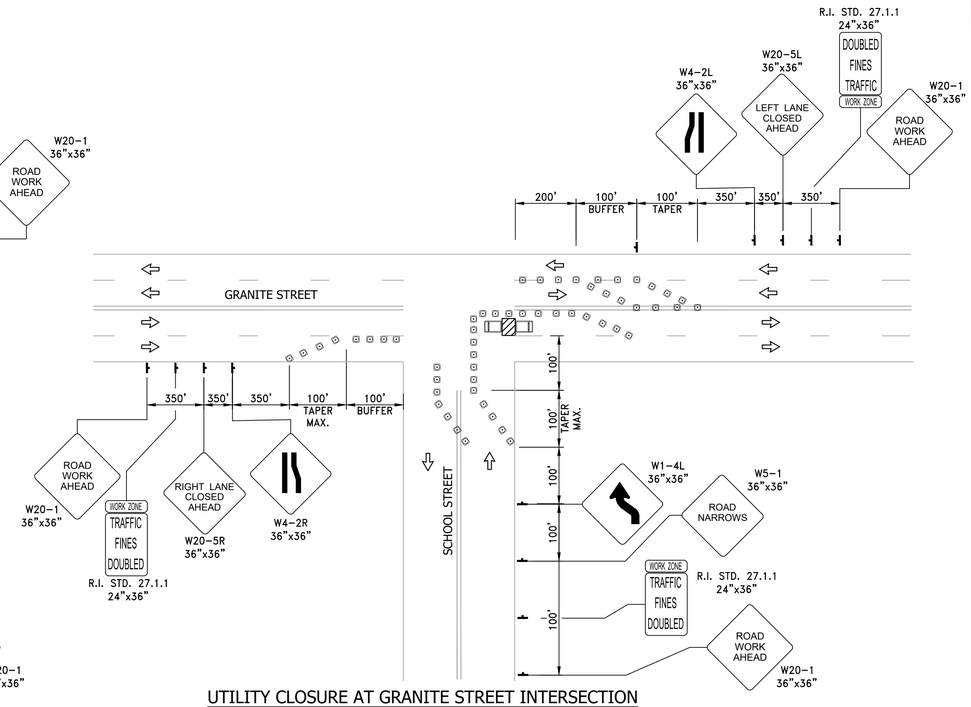
SHEET NO. 28 OF 33

NOTES:

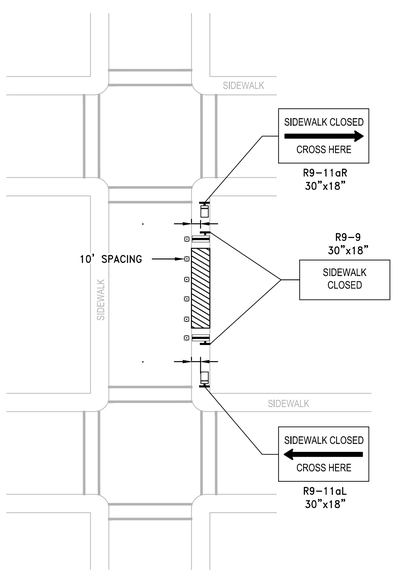
1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
5. THE BUFFER SPACES SHOULD BE EXTENDED IF NECESSARY SO THAT THE 100' MAX. TWO-WAY TRAFFIC TAPERS ARE PLACED BEFORE THE HORIZONTAL (OR CREST VERTICAL) CURVES TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND QUEUES OF STOPPED VEHICLES.
6. THE MAXIMUM SPACING BETWEEN THE FLUORESCENT TRAFFIC CONES FOR TAPER AND TANGENT SECTIONS ON DESIGNATED PROJECT ROADWAYS AND SIDE STREETS SHALL BE MAX. TWENTY-FIVE (25) FEET.
7. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF THE CHANNELIZATION DEVICES.
8. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE WORK AREA SHALL BE MAINTAINED AT ALL TIMES.
9. THE CONTRACTOR SHALL REQUEST FROM THE ENGINEER IN WRITING ANY TEMPORARY ON-STREET PARKING RESTRICTIONS A MINIMUM OF 48 HOURS PRIOR TO THE RESTRICTION PERIOD. IF APPROVED, THE CONTRACTOR SHALL INSTALL TEMPORARY PARKING RESTRICTION SIGNS A MINIMUM OF 24 HOURS PRIOR TO THE RESTRICTION PERIOD. THE SIGNS SHALL INCLUDE THE DATE AND TIME OF THE RESTRICTION PERIOD. THIS WORK SHALL BE PAID FOR UNDER ITEM CODE 58-"TRAFFIC MANAGEMENT."
10. THE CONTRACTOR SHALL PLACE TEMPORARY CONSTRUCTION SIGNS TO ENSURE THAT A 36" UNOBSTRUCTED MINIMUM CLEARANCE IS PROVIDED AT ALL TIMES ON SIDEWALKS OPEN TO PEDESTRIANS. AT LOCATIONS WHERE A 36" MINIMUM CLEARANCE CANNOT BE ACHIEVED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO PROVIDE MOUNTED SIGNS WITH THE BOTTOM OF THE SIGN OVERHANG NO LESS THAN 84" HIGH IN ORDER TO MEET ADA STANDARDS. THIS WORK SHALL BE PAID FOR UNDER "TRAFFIC MANAGEMENT ITEM."
11. TEMPORARY CONSTRUCTION ADVANCED WARNING SIGNS POSTED ON MINOR INTERSECTING STREETS SHOWN IN THE "TYPICAL CLOSURE AT SIDE OF INTERSECTION" DETAIL, MAY BE PLACED 100 FT APART.
12. THE LONGITUDINAL PEDESTRIAN CHANNELING DEVICES SHALL BE POSITIONED SUCH THAT THERE ARE NO GAPS ACROSS THE ENTIRE WIDTH OF THE SIDEWALK.
13. THE LONGITUDINAL PEDESTRIAN CHANNELING DEVICES USED FOR THE SIDEWALK CLOSURE SHALL HAVE A DETECTABLE EDGE IN ACCORDANCE WITH SECTION 6F.74 OF THE MOST RECENT EDITION OF THE MUTCD, INCLUDING ALL REVISIONS AND ADDENDA.
14. "TYPICAL SIDEWALK CLOSED WITH PEDESTRIAN DETOUR" AND "TYPICAL CROSSWALK CLOSED WITH PEDESTRIAN DETOUR" DETAILS SHALL BE USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL DETAILS AS APPLICABLE, AND WHEN WORK ZONES INCLUDE CLOSURE OF BOTH ROADWAY AND SIDEWALK AREAS. TEMPORARY TRAFFIC CONTROL MUST BE APPROVED BY THE ENGINEER PRIOR TO SET-UP.
15. PLASTIC PIPE BARRICADES SHALL BE EQUIPPED WITH TYPE A WARNING LIGHTS IN ACCORDANCE WITH SECTION 6F.83 OF THE MOST RECENT EDITION OF THE MUTCD, INCLUDING ALL REVISIONS AND ADDENDA. PLASTIC PIPE BARRICADES SHOULD NOT BE SPACED MORE THAN 5 FEET APART WHEN REQUIRED FOR ROAD CLOSURES.
16. WHERE SIDE STREETS THAT ARE NOT SHOWN ON THE PLAN INTERSECT THE WORK ZONE ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.
17. THE CONTRACTOR SHALL PROVIDE NECESSARY ACCESS FOR FIRE APPARATUS AND OTHER EMERGENCY VEHICLES THROUGH THE WORK ZONE AT ALL TIMES.



TYPICAL CLOSURE AT SIDE OF "T" INTERSECTION

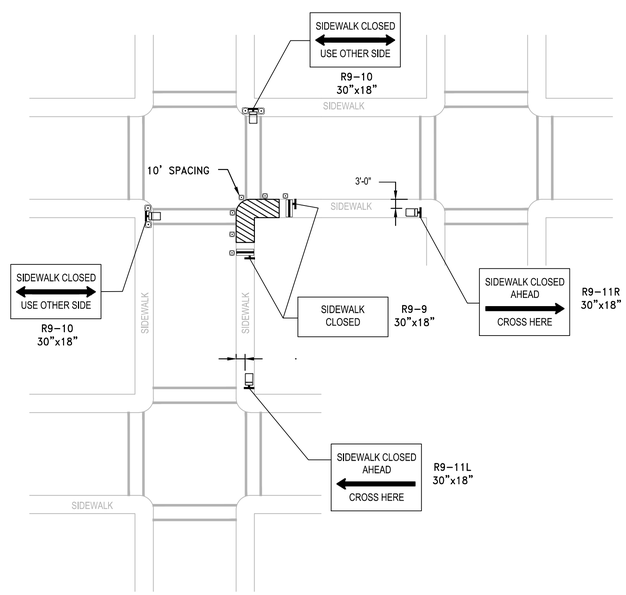


UTILITY CLOSURE AT GRANITE STREET INTERSECTION



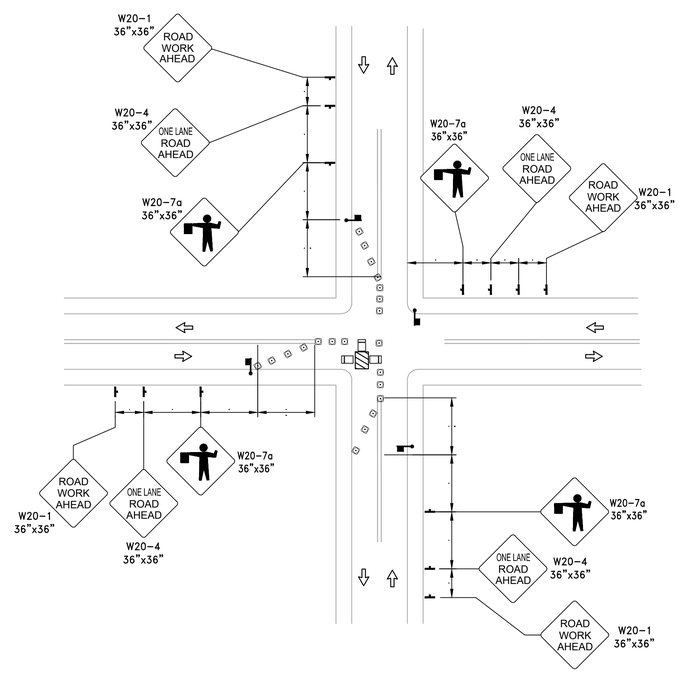
TYPICAL SIDEWALK CLOSED WITH PEDESTRIAN DETOUR

NOT TO SCALE
(SEE NOTE 14)



TYPICAL CROSSWALK CLOSED WITH PEDESTRIAN DETOUR

NOT TO SCALE
(SEE NOTE 14)



TYPICAL CLOSURE AT SIDE OF INTERSECTION

NOT TO SCALE

LEGEND:

- PVC PLASTIC PIPE BARRICADE, RI STD. 26.3.0
- CONE R.I. STD. 26.1.0
- DIRECTION OF TRAVEL
- TEMPORARY SIGN
- WORK AREA
- FLAGGER OR POLICE OFFICER

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THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

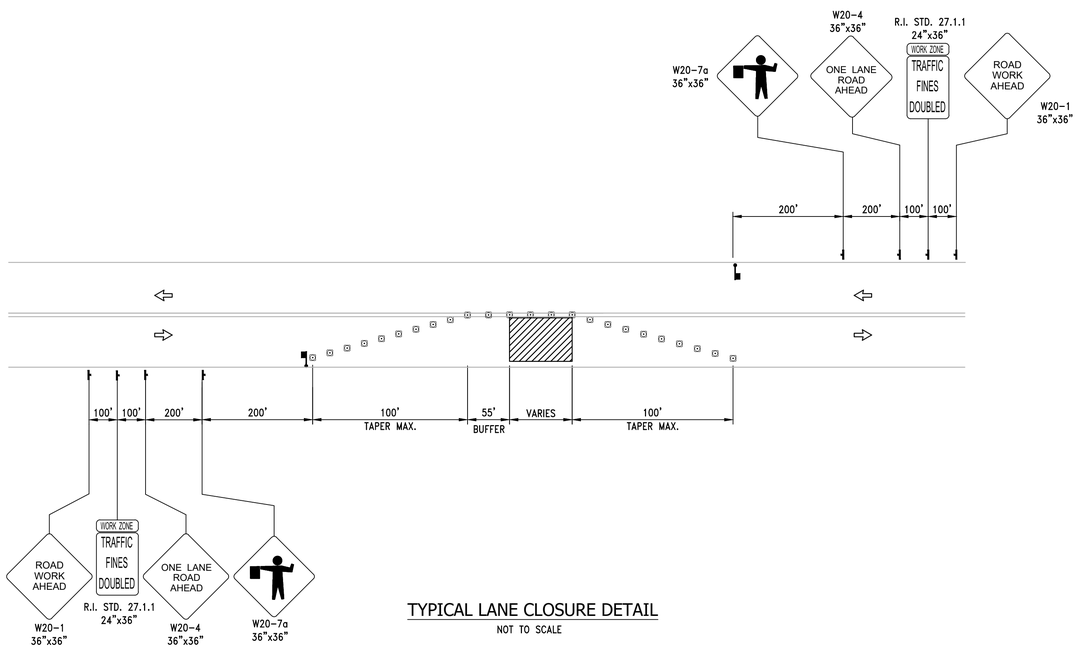
PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
TEMPORARY TRAFFIC CONTROL PLAN No.1

DRAWING NO.: C10.1

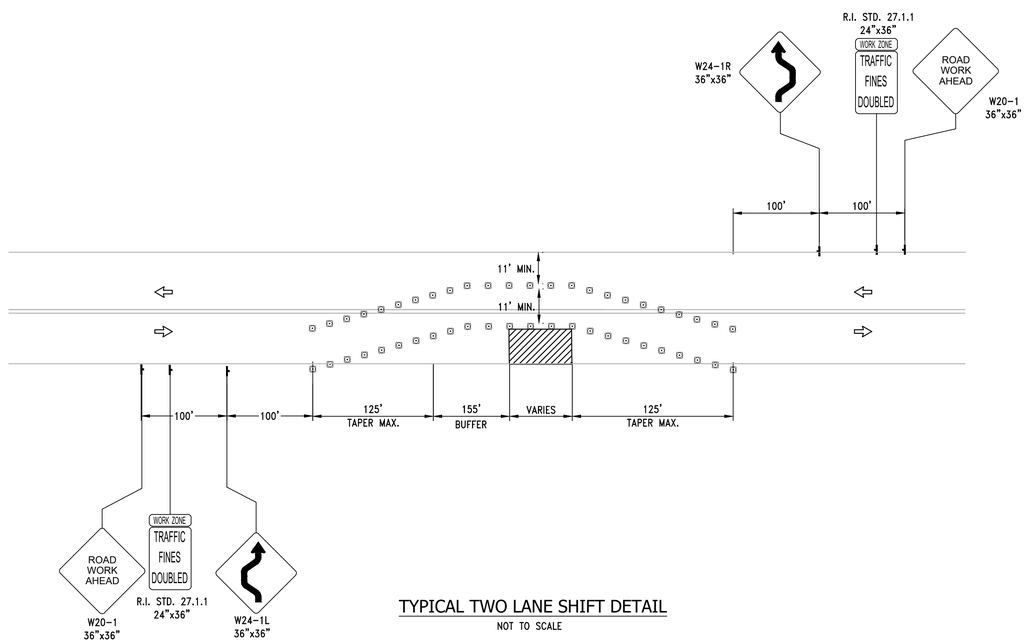
SHEET NO. 29 OF 33

Z:\19055.19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\dwgs\C10.1 TCP01PRO.dwg



TYPICAL LANE CLOSURE DETAIL

NOT TO SCALE

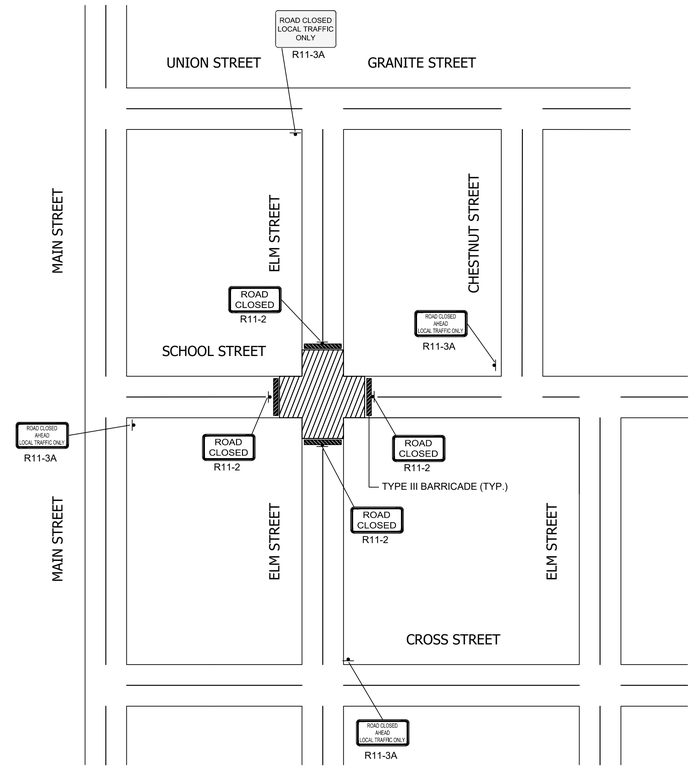


TYPICAL TWO LANE SHIFT DETAIL

NOT TO SCALE

NOTE:

SEE "29 – TEMPORARY TRAFFIC CONTROL PLAN No.1" FOR ALL NOTES APPLICABLE TO THIS SHEET.



NOTE:

CONTRACTOR TO PLACE ADDITIONAL DETOUR SIGNS AS DIRECTED BY THE ENGINEER.

INTERSECTION CLOSURE DETOUR

NOT TO SCALE

LEGEND:

- DRUM, R.I. STD. 26.2.0 OR FLUORESCENT TRAFFIC CONE R.I. STD. 26.1.0
- DIRECTION OF TRAFFIC
- TEMPORARY SIGN
- WORK AREA
- PLASTIC PIPE BARRICADE R.I. STD. 26.3.0
- FLAG PERSON

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8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

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0" 1"
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School Street Reconstruction
Main Street to Granite Street

Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	1"=20'
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

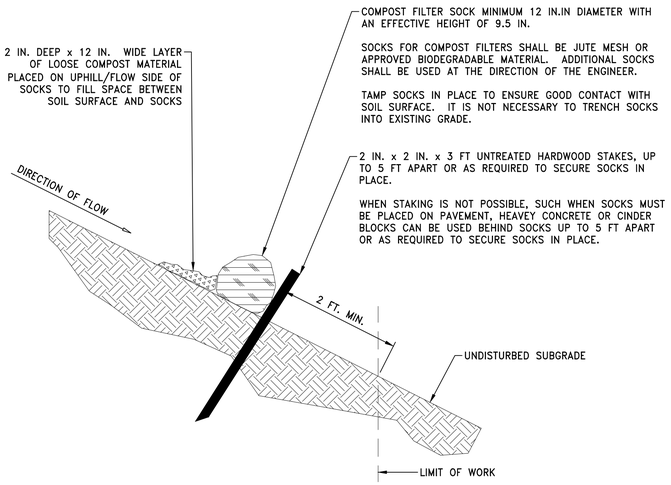
DRAWING TITLE:

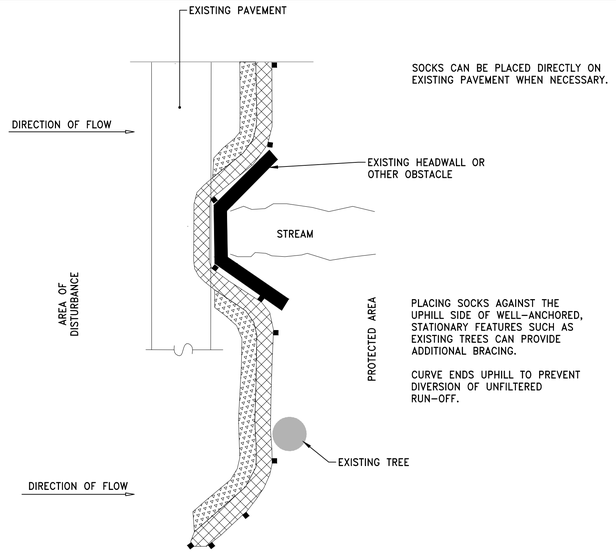
TEMPORARY TRAFFIC CONTROL PLAN No.2

DRAWING NO.: C10.2

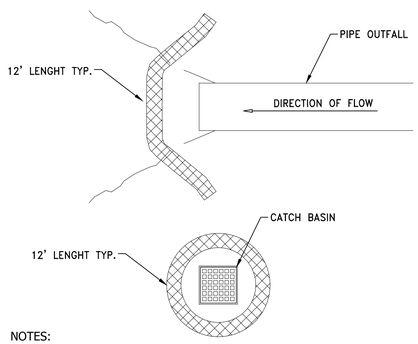
SHEET NO. 30 OF 33

Z:\JOBS\19 Jobs\19055.00 Westerly-School Street Reconstruction-RI\Dwgs\C10.2 TCDWG\C002.dwg



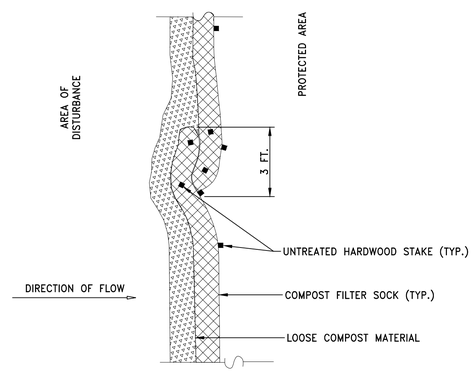


PLAN VIEW



PROVIDE 3 FT. MINIMUM OVERLAP AT ENDS OF SOCKS TO JOIN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING SOCKS SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.

SECURES ENDS OF SOCKS WITH STAKES SPACED 18 IN. APART THROUGH TOPS OF SOCKS.



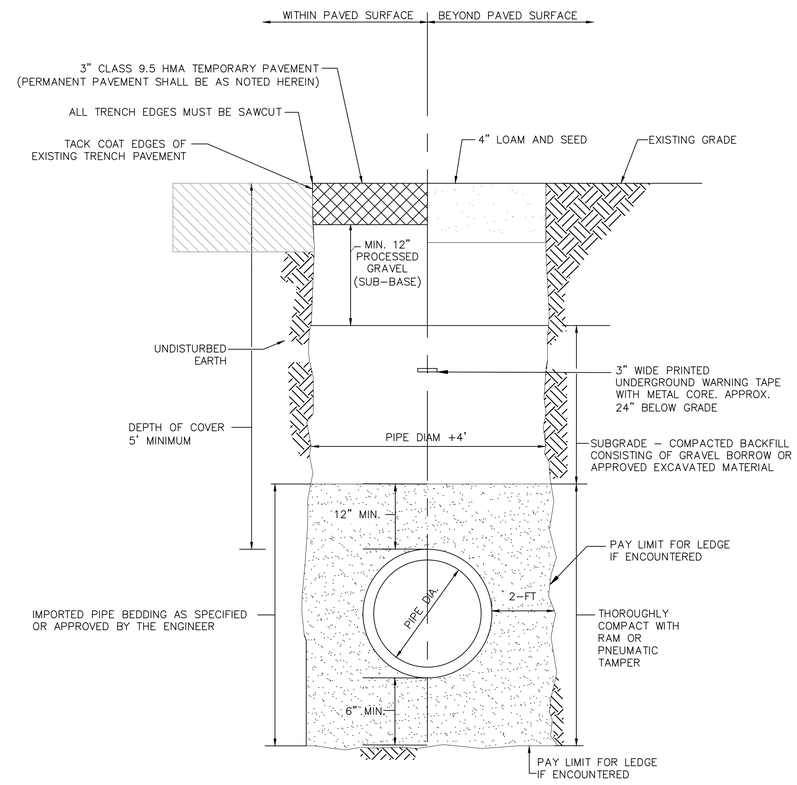
PLAN VIEW - JOIN DETAIL

NOTES:

1. PROVIDE A MINIMUM SOCK DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER SOCK DIAMETER OR ADDITIONAL COURSING OF FILTER SOCKS TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL SOCKS ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE SOCKS AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.

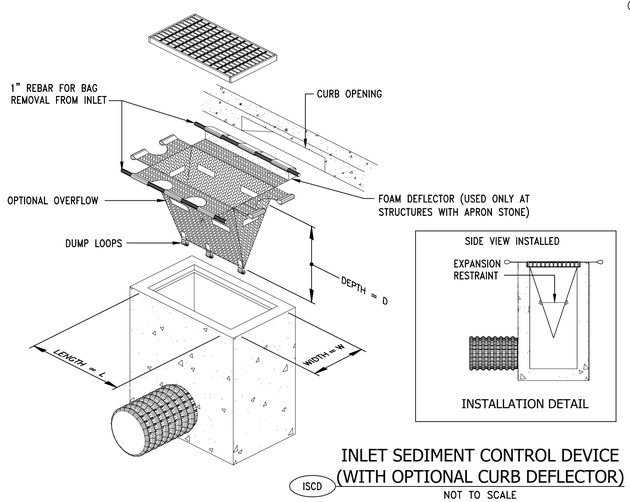
CFS COMPOST FILTER SOCK DETAIL

NOT TO SCALE



TYPICAL WATER TRENCH DETAIL

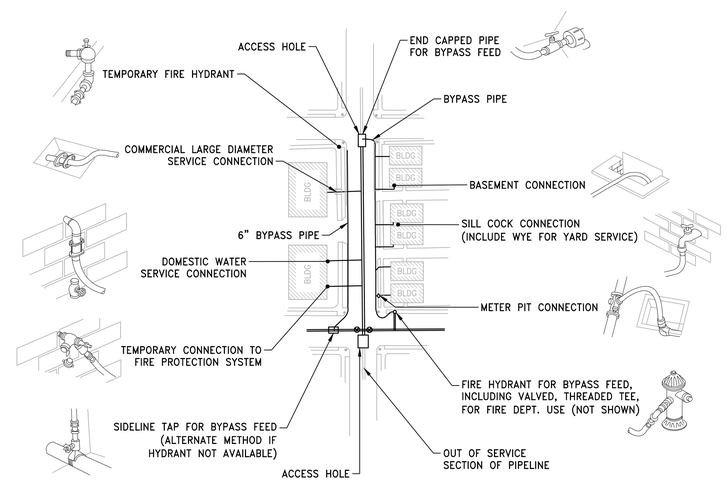
SCALE: NOT TO SCALE



INLET SEDIMENT CONTROL DEVICE (WITH OPTIONAL CURB DEFLECTOR)

ISCD

NOT TO SCALE



TYPICAL WATER BYPASS PIPING

NOT TO SCALE

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8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	NOT TO SCALE
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

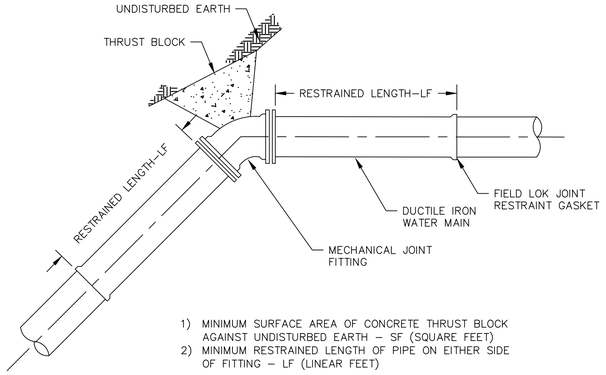
DRAWING TITLE:

DETAILS No.1

DRAWING NO.: C11.1

SHEET NO. 31 OF 33

Z:\2019\19 Jobs\19055.00 Westerly-School Street Reconstruction-PE\dwgs\C11.0 Details.dwg

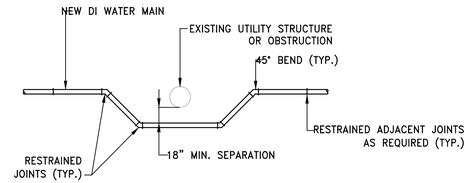


1) MINIMUM SURFACE AREA OF CONCRETE THRUST BLOCK AGAINST UNDISTURBED EARTH – SF (SQUARE FEET)
2) MINIMUM RESTRAINED LENGTH OF PIPE ON EITHER SIDE OF FITTING – LF (LINEAR FEET)

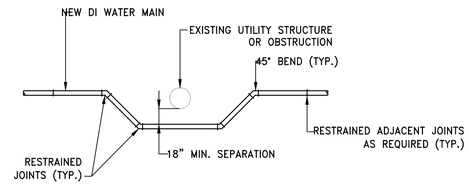
PIPE SIZE	PLUG		TEE		90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND	
	SF	LF	SF	LF	SF	LF	SF	LF	SF	LF	SF	LF
6"	2.8	37	2.8	32	4.0	18	2.1	7	1.1	4	1.0	2
8"	4.8	48	4.8	43	6.8	23	3.7	10	1.9	5	1.0	2
10"	7.3	58	7.3	53	10.3	28	5.6	12	2.8	6	1.4	3
12"	10.3	69	10.3	63	14.5	33	7.9	14	4.0	6	2.0	3
16"	17.8	89	17.8	83	25.2	42	13.6	17	7.0	8	3.5	4
20"	27.5	108	27.5	102	38.9	51	21.0	21	10.7	10	5.4	5
24"	39.2	127	39.2	121	55.4	59	30.0	25	15.3	12	7.7	6

NOTES:
1. THE "SF" VALUES IN THE ABOVE TABLE ARE BASED ON 3,000 P.S.F. SOIL BEARING CAPACITY, 150 P.S.I. TEST PRESSURE AND A 1.5 FACTOR OF SAFETY.
2. THE "LF" VALUES IN THE ABOVE TABLE ARE BASED ON A TYPE 3 LAYING CONDITION, A SAND SILT SOIL DESIGNATION, A 5 FOOT RUN LENGTH, 150 P.S.I. TEST PRESSURE AND A 1.5 FACTOR OF SAFETY.

RESTRAINT AT FITTINGS
SCALE: NOT TO SCALE



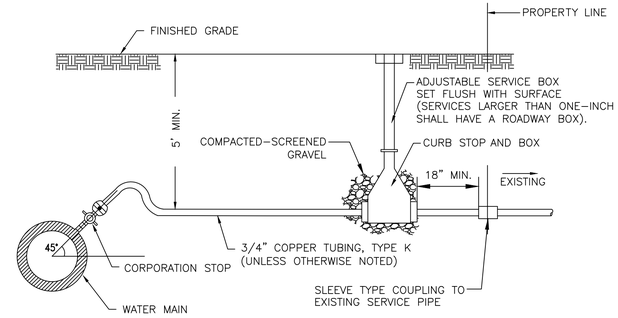
VERTICAL OFFSET PROFILE VIEW



HORIZONTAL OFFSET PLAN VIEW

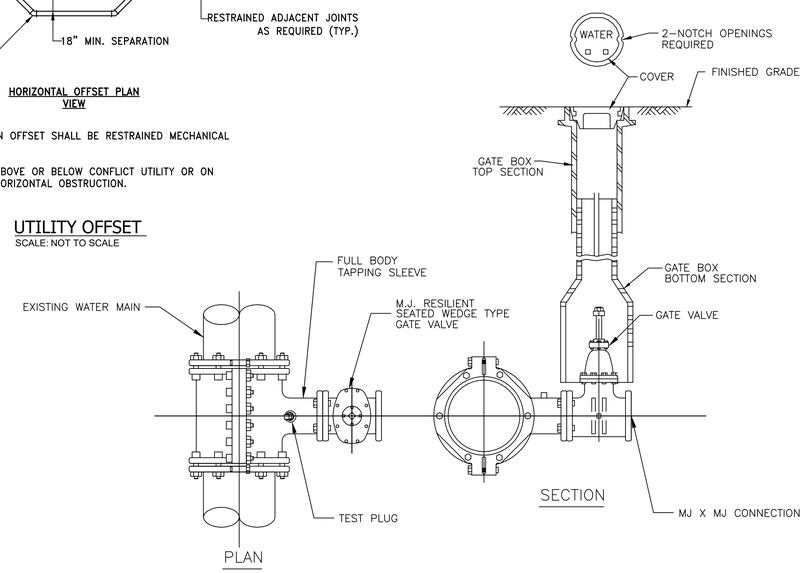
NOTES:
1. ALL JOINTS WITHIN OFFSET SHALL BE RESTRAINED MECHANICAL JOINT.
2. OFFSET CAN BE ABOVE OR BELOW CONFLICT UTILITY OR ON EITHER SIDE OF HORIZONTAL OBSTRUCTION.

UTILITY OFFSET
SCALE: NOT TO SCALE

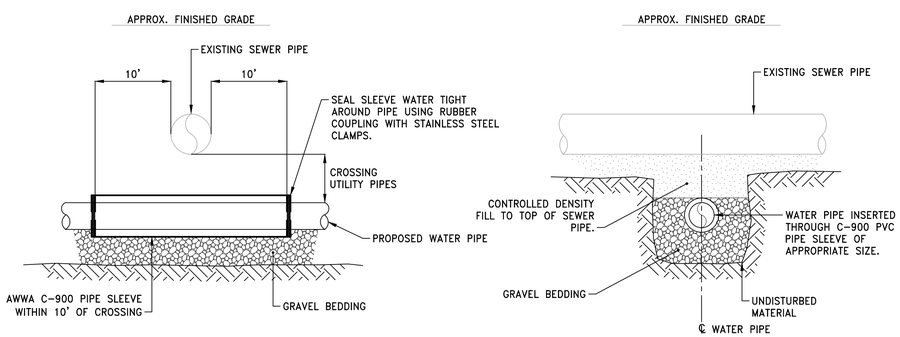


NOTES:
1. ALL JOINTS SHALL BE COMPRESSION TYPE.
2. COPPER SERVICE LINE SHALL BE BACKFILLED WITH SAND BY HAND TO 12" ABOVE TUBING, AND SHALL HAVE A SAND BEDDING OF 6".
3. ALL CORPORATION STOPS SHALL HAVE A SADDLE.
4. WATER SERVICES SHALL BE INSULATED IN AREAS WHERE CONNECTION TO EXISTING WATER SERVICE IS LESS THAN 4–1/2'.

TYPICAL SERVICE TRANSFER
SCALE: NOT TO SCALE

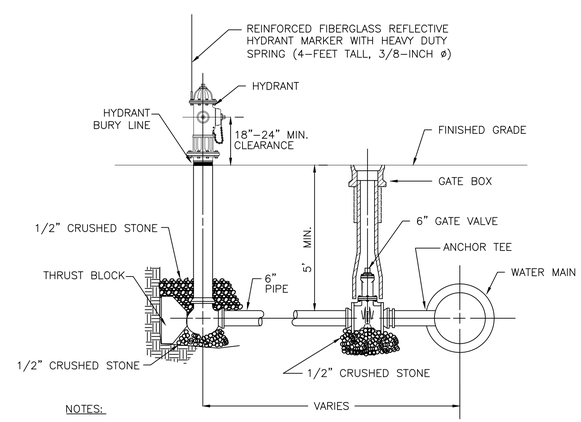


TAPPING SLEEVE AND GATE VALVE
SCALE: NOT TO SCALE



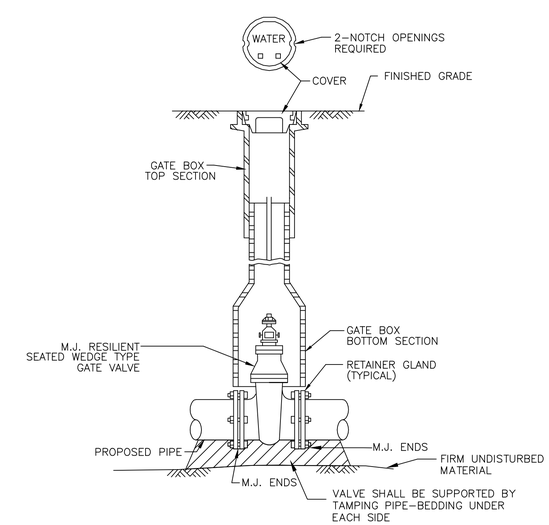
NOTES:
1. WATER MAIN AND SEWER CROSSINGS SHALL BE AVOIDED WHERE POSSIBLE.
2. IN AREAS WHERE THE PROPOSED WATER MAIN CROSSING THE SEWER CANNOT BE INSTALLED ABOVE THE SEWER WITH 18" OF VERTICAL SEPARATION, OR WHERE THE WATER IS LOCATED LESS THAN 10 FEET HORIZONTALLY FROM THE SEWER SUCH THAT THE ELEVATION OF THE BOTTOM OF THE WATER MAIN IS LESS THAN 18" ABOVE THE TOP OF THE SEWER, THE PROPOSED WATER PIPE SHALL BE SLEEVED INSIDE AN AWWA C–900 PVC PIPE OF APPROPRIATE DIAMETER WITHIN 10 FEET OF THE CROSSING.
3. IN AREAS WHERE WATER MAIN IS INSTALLED UNDER AN EXISTING SEWER, THE CONTRACTOR SHALL SLEEVE THE WATER IN AWWA C–900 PVC PIPE OF APPROPRIATE DIAMETER AND INSTALL CLASS 1 (PER RIDOT STANDARDS) EXCAVATABLE CONTROLLED DENSITY FILL, FROM THE TOP OF THE WATER TO TOP OF THE SEWER FOR THE FULL WIDTH OF THE TRENCH.

WATER/SEWER CROSSING DETAIL
NOT TO SCALE



NOTES:
1. CONFIRM HYDRANT LOCATION WITH WESTERLY FIRE DEPARTMENT PRIOR TO EXCAVATION.
2. ALL HYDRANT, VALVE AND TEE JOINTS TO BE RESTRAINED MECHANICAL JOINTS.
3. DEPTH OF HYDRANT BURY SHALL SUIT INSTALLED DEPTH OF COVER OVER WATER MAIN. INSTALL RISERS AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
4. 6" PIPE MATERIAL TO MATCH WATER MAIN MATERIAL.

HYDRANT ASSEMBLY DETAIL
SCALE: NOT TO SCALE



GATE VALVE AND VALVE BOX DETAIL
SCALE: NOT TO SCALE

PARE
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ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

THE TOWN OF WESTERLY, RI 1669 OFFICIAL SEAL

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

School Street Reconstruction
Main Street to Granite Street
Westerly, Rhode Island

REVISIONS:

PROJECT NO.:	19055.00
DATE:	SEPTEMBER 2020
SCALE:	NOT TO SCALE
DESIGNED BY:	AA, KF
CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:
DETAILS No.2

DRAWING NO.: C11.2

SHEET NO. 32 OF 33

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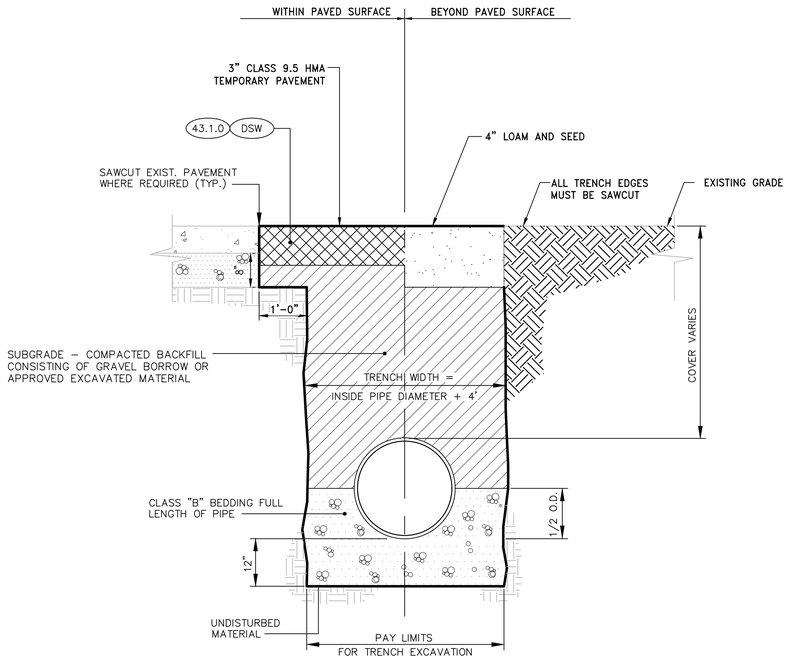
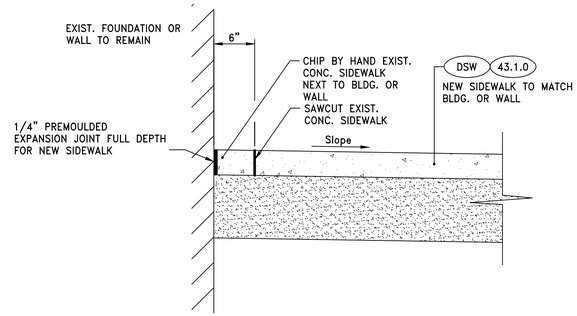


NOTE:

"COVER" AT ANY POINT SHALL BE DEFINED AS THE VERTICAL DISTANCE FROM THE UPPER MOST POINT OF THE PIPE TO A LINE WHICH CONNECTS THE SURFACE OF UNDISTURBED GROUND AT EITHER SIDE OF THE TRENCH AND IS AT RIGHT ANGLES TO THE DIRECTION OF THE PIPE

TYPICAL TRENCH FOR DRAINAGE INSTALLATION

NOT TO SCALE

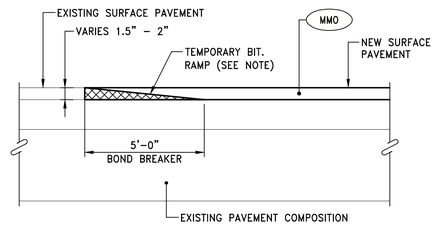


NOTE:

EXTREME CARE SHALL BE TAKEN WHEN REMOVING SIDEWALKS NOT TO AFFECT THE STRUCTURAL INTEGRITY OF WALLS OR FOUNDATIONS.
THE CONTRACTOR SHALL CUT A 6" x 12" TEST AREA AT EACH WALL OR FOUNDATIONS AND REMOVE THE SIDEWALK, FOR THE ENGINEER TO VISUALLY INSPECT THE DISTURBED AREA AS DESCRIBED IN THE GENERAL PROVISIONS – CONTRACT SPECIFIC DOCUMENTS. THIS WORK SHALL BE PAID FOR UNDER THE THE ITEM FOR "REMOVE AND DISPOSE SIDEWALK."

SAWCUT SIDEWALK AT WALL OR FOUNDATION

NOT TO SCALE



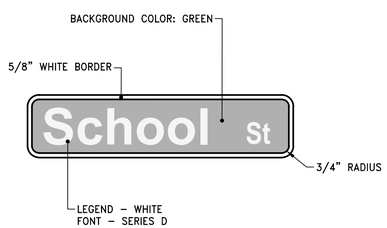
NOTES:

1. A BOND BREAKER (TAPERED OR EQUIVALENT) SHALL BE PLACED 5'-0" FROM THE JOINT AS A TEMPORARY RAMP. PRIOR TO PLACING THE SURFACE COURSE, THE BOND BREAKER SHALL BE REMOVED.
2. THE TEMPORARY HMA RAMPS SHALL BE PLACED BEFORE ROADWAY IS OPEN TO TRAFFIC.
3. THIS WORK SHALL BE PAID FOR UNDER ITEM 932.0/00 CUTTING AND MATCHING ASPHALT.

CM

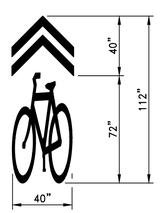
CUT AND MATCH FOR MILLING AND OVERLAY

NOT TO SCALE



TYPICAL STREET NAME SIGN PANEL DETAIL

NOT TO SCALE



NOTES:

1. ALL MARKINGS ARE WHITE EPOXY RESIN.
2. MARKING SHALL BE CONSISTENT WITH FIGURE 9C–9 OF THE MUTCD, LATEST VERSION.

SLM

SHARED LANE MARKING DETAIL

NOT TO SCALE

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CHECKED BY:	AA
DRAWN BY:	RPB
APPROVED BY:	JPS

DRAWING TITLE:

DETAILS No.3

DRAWING NO.: C-11.3

SHEET NO. 33 OF 33

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