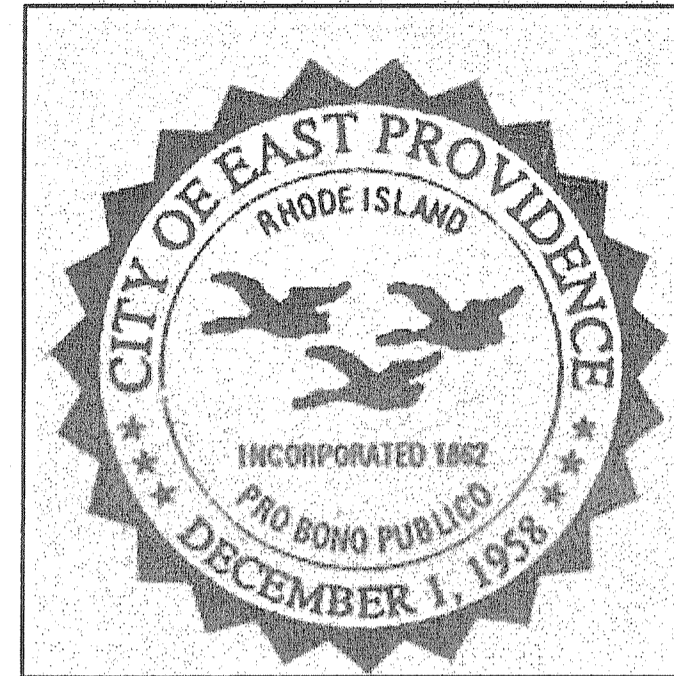


LIST OF DRAWINGS

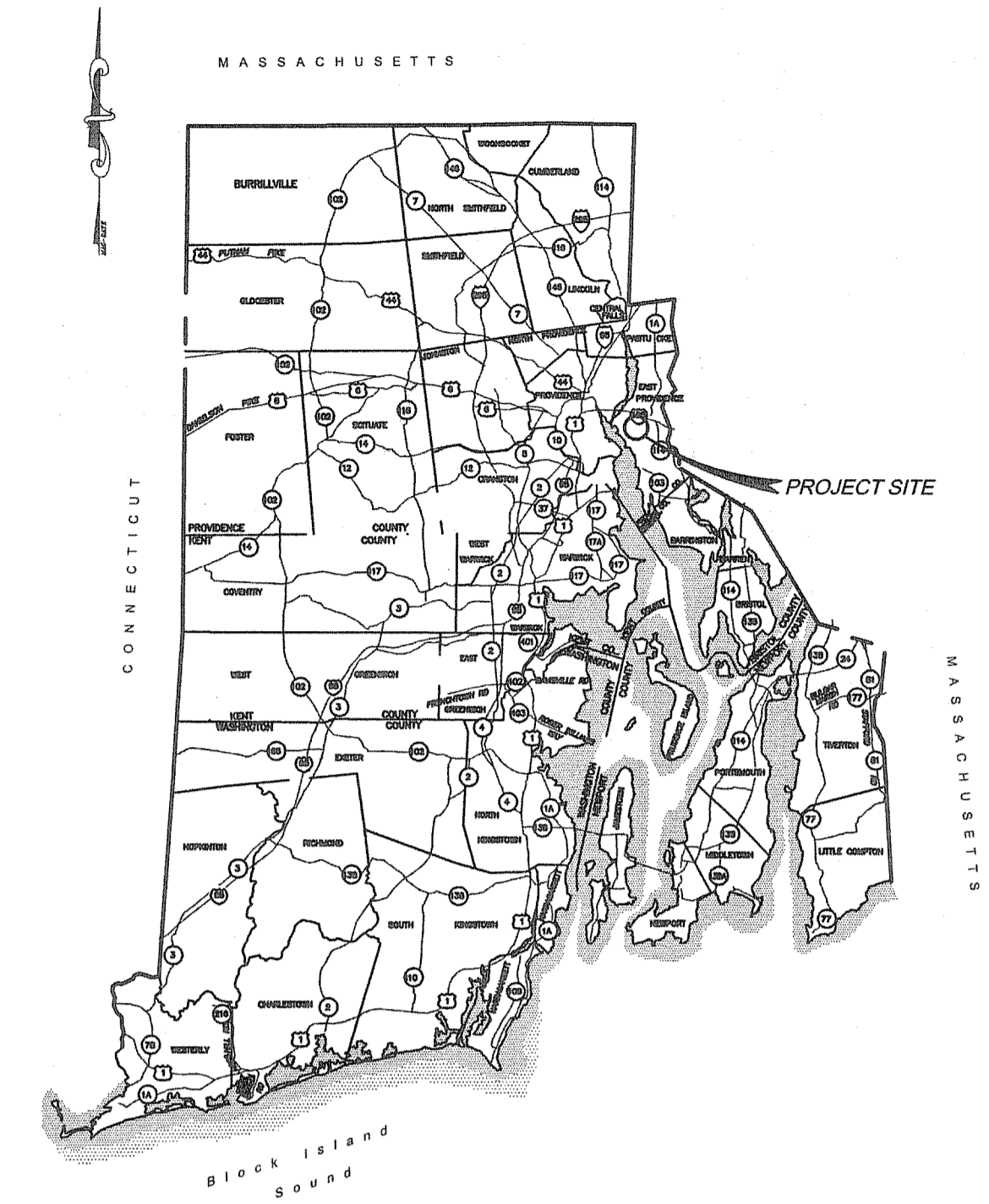
SHEET No.	DRAWING No.	TITLE
WARREN AVENUE / BROADWAY CORRIDOR		
1	C1	COVER SHEET
2	C2	STANDARD LEGEND AND SYMBOLS
3	C3	STANDARD NOTES
4	C4	JOB SPECIFIC AND TYPICAL SECTIONS
5	C5	EXISTING CONDITIONS PLAN 1
6	C6	EXISTING CONDITIONS PLAN 2
7	C7	GENERAL PLAN 1
8	C8	GENERAL PLAN 2
9	C9	GENERAL PLAN 3
10	C10	SIGNING AND STRIPING PLAN 1
11	C11	SIGNING AND STRIPING PLAN 2
12	C12	SIGNING AND STRIPING PLAN 3
13	C13	DETAILS
14	C14	MAINTENANCE & PROTECTION OF TRAFFIC PLAN 1
15	C15	MAINTENANCE & PROTECTION OF TRAFFIC PLAN 2
16	L1	LANDSCAPING PLAN 1
17	L2	LANDSCAPING PLAN 2
18	L3	LANDSCAPING PLAN 3
19	L4	LANDSCAPING DETAILS 1
20	L5	LANDSCAPING DETAILS 2
21	D1	DECORATIVE LIGHTING PLAN 1
22	D2	DECORATIVE LIGHTING PLAN 2
23	D3	DECORATIVE LIGHTING PLAN 3
KENT HEIGHTS ELEMENTARY SCHOOL, SRTS		
1	K1	GENERAL PLAN
2	K2	SIGNING AND STRIPING PLAN
NATIONAL GRID LIGHTING SHEETS - (BOUND SEPARATELY)		
1-7		

CITY OF EAST PROVIDENCE

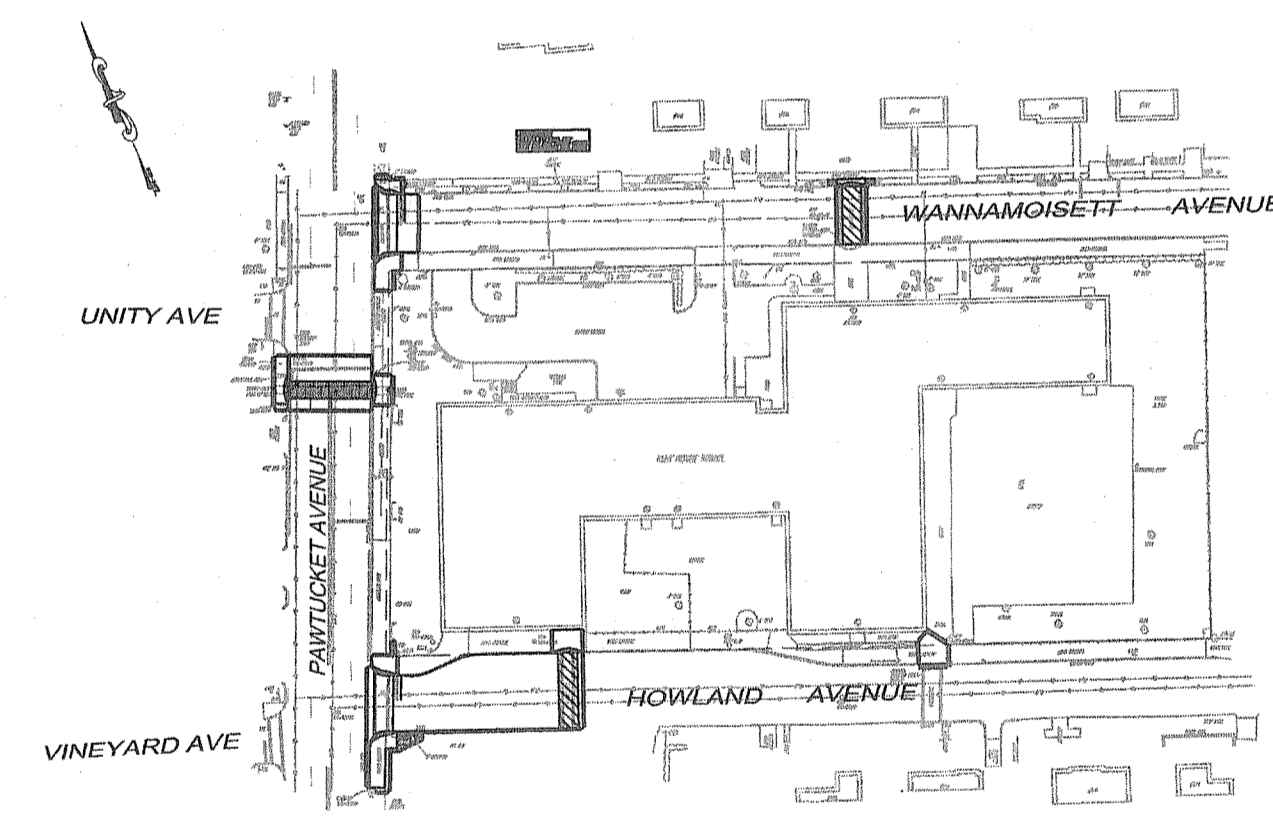


**PLAN OF PROPOSED
WARREN AVENUE / BROADWAY CORRIDOR
REVITALIZATION PROJECT PHASE 2
AND KENT HEIGHTS ELEMENTARY SCHOOL, SRTS**

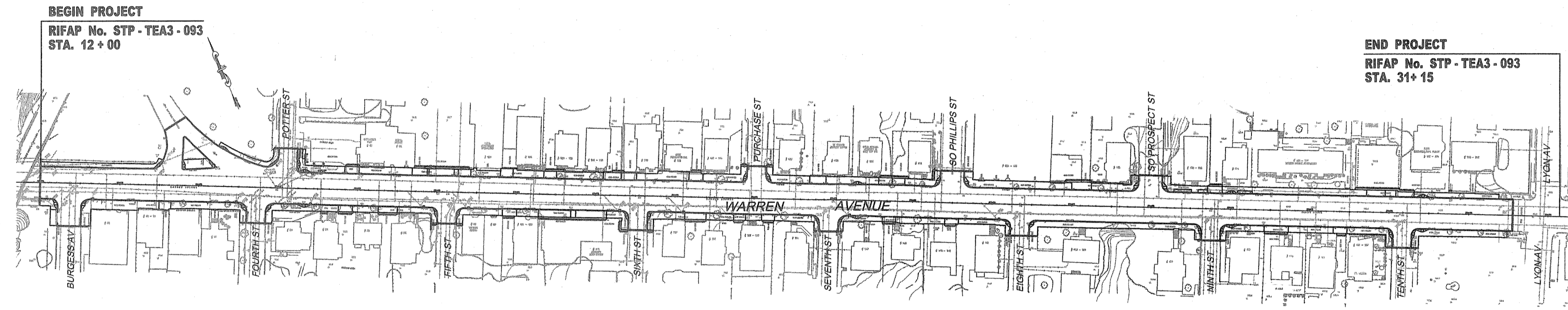
CITY OF EAST PROVIDENCE
PROVIDENCE COUNTY
STATE OF RHODE ISLAND



LOCATION MAP
NOT TO SCALE



R.I.F.A.P. PROJECT No. STP - SRTS(003)
LENGTH = 0.1 MILES
KENT HEIGHTS PLAN
Scale: 1"=100'



R.I.F.A.P. PROJECT No. STP - TEA3 - 093
LENGTH = 0.36 MILES
WARREN AVENUE PLAN

WARREN AVENUE DATA:

EXISTING PAVEMENT COMPOSITION:
1 1/2" BITUMINOUS SURFACE COURSE, TYPE I-1
1 1/2" BITUMINOUS BASE COURSE, TYPE I-1
8" CEMENT CONCRETE BASE COURSE
6" GRAVEL BORROW SUBBASE

PROPOSED PAVEMENT COMPOSITION:
COLD PLANE 1 1/2" EXISTING PAVEMENT
OVERLAY 1 1/2" BITUMINOUS SURFACE COURSE, CLASS I-1

DESIGN DESIGNATION

AADT (2007) = 12,850 VEHICLES / DAY
AADT (2017) = 14,030 VEHICLES / DAY
DHV (2017) = 1,400 VEHICLES / HOUR
D = 50 % / 50 %
T = 2 %
V = 35 MPH (WARREN AVENUE)

Scale: 1"=100'
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 11-011
DATED: JUL 25 2011
SEE LETTER OF SAME DATE
Charles H. H...

RIDEM Submission
June 2011

SCALE OF DRAWINGS
PLANS: 1"=20'

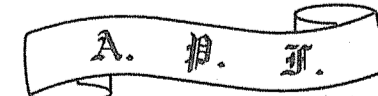
ELEVATIONS ARE BASED ON NATIONAL GEODETIC
VERTICAL DATUM (NGVD) 1929 MEAN SEA LEVEL.

RHODE ISLAND STANDARD SPECIFICATIONS:

SPECIFICATIONS TO GOVERN THIS PROJECT ARE RHODE ISLAND
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
2004 EDITION, WITH THE LATEST REVISIONS AND STATE AND FEDERAL
SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
STANDARD DETAILS ARE RHODE ISLAND STANDARD DETAILS.

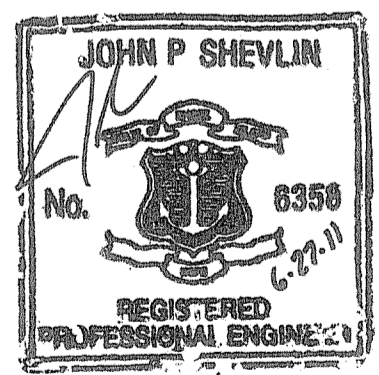
PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

LANDSCAPE ARCHITECT:
DIANE C. SOULE & ASSOCIATES, ASLA
LANDSCAPE ARCHITECTURE • GRAPHICS • DESIGN
Smithfield, Rhode Island 401.231.0736 e-mail: diane@dcsa-ri.com
www.dianesouleandassociates.com



Antonio P. Franco & Associates
Engineering Consultants
ELECTRICAL, ENERGY CONSERVATION, LIGHTING

17 SUSAN DRIVE
CUMBERLAND, R.I. 02864
TEL. (401) 334-3400
FAX (401) 334-9357



GENERAL NOTES:

1. ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
2. 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 R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE RESIDENT ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
4. THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE AS DIRECTED BY THE ENGINEER.
5. ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE COLD PLANED PAVEMENT, AND 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 IN ACCORDANCE WITH ITEM CODE 409.0300 "ASPHALT EMULSION TACK COAT."
7. THE LIMITS OF CLEARING AND 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 HIS OWN EXPENSE, PLANTABLE SOIL 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.
8. ANY SUBCONTRACTORS EMPLOYED BY THE CONTRACTOR OR THE CITY ON THIS PROJECT SHALL WORK WITHIN THE SAME PROTECTED WORK AREAS AS THE CONTRACTOR. NO SEPARATE LANE CLOSURES WILL BE PAID FOR.
9. UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
10. CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
11. PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS, AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.
12. PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAYER FOR CONTROLLING GRADE.
13. 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 CITY.
14. 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 REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.
15. ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.

DRAINAGE AND EROSION CONTROL NOTES:

1. NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR. 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 ADDITIONAL WORK TO CORRECT THE PROBLEM 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.
2. STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEEDED AND RINGED WITH R.I. STD. 91.0 TO STABILIZE.
3. JUTE MESH SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
4. SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT:
 - a. SEEDING TYPE I
 - b. ADHESIVE MULCH STABILIZER
5. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
6. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
7. CATCH BASIN RIM GRADES NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
8. 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 CITY.
9. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
10. EROSION CONTROLS, NOT SHOWN ON THESE PLANS, SHALL BE INSTALLED AS CONDITIONS WARRANT, OR AS DIRECTED BY THE RESIDENT ENGINEER.

CRACK SEALING NOTES:

1. ALL CRACKS IN THE COLD PLANED PAVEMENT SURFACE SHALL BE CRACKSEALED IN ACCORDANCE WITH SECTION 408 OF THE RIDOT STANDARD SPECIFICATIONS.
2. FOR CRACKS GREATER THAN 1" IN WIDTH, THE CRACK SHALL BE ROUTED TO PROVIDE CLEAN EDGES AND SUFFICIENT WIDTH THROUGH TO THE BOTTOM OF CRACK.

UTILITY NOTES:

1. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH THE "DIG SAFE LAW" ENACTED BY R.I. LEGISLATURE BILL NO. 795-291, WHICH BECAME EFFECTIVE JULY 1, 1971 AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES, AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE, OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CITY.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
4. UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
5. FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
6. ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.

LANDSCAPE NOTES:

1. ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
2. ANY TOPSOIL USED AS PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH SECTION M18 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
3. ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATION MUST BE APPROVED IN ACCORDANCE WITH R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
4. ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
5. A R.I.D.O.T. LANDSCAPE REPRESENTATIVE MUST BE ON SITE TO APPROVE ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK SHOWN ON THE PLANS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

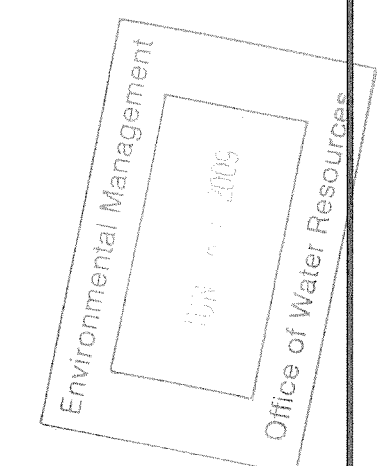
1. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
3. THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
4. ADVANCE FLAGPERSON SIGNS (M20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
5. POLICE OFFICERS (AND NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS.
6. DRUM BARRICADES SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
7. ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
8. TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED.
9. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE RIGHT-OF-WAY ONLY IN AREAS 30' BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.



WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SR15
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-011
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.

Charles A. Haber



REVISIONS:	NO.	DATE	DESCRIPTION

PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: AS NOTED
 DESIGNED BY: SL
 CHECKED BY: JPS
 DRAWN BY: AKD
 APPROVED BY: JPS
 DRAWING TITLE:

STANDARD NOTES

DRAWING NO.:
C3
 SHEET NO. 3 OF 23

JOB SPECIFIC GENERAL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR THE VERTICAL AND HORIZONTAL LAYOUT OF THE CONSTRUCTION. CURBING SHOULD BE RESET WITH A 4" TO 6" REVEAL AFTER CONFIRMING THAT THE SIDEWALK WILL SLOPE TOWARDS THE ROADWAY. SOME LOCATIONS MAY REQUIRE CURB REVEALS OF LESS THAN 4". CURB REVEAL SHOULD BE DISCUSSED IN THE FIELD WITH THE ENGINEER PRIOR TO RESETTING THE CURB.
- 2. ALL GRASSSED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REESTABLISHED WITH LOAM AND TYPE 2 SEED. IF AREAS ARE BEYOND WORK LIMIT LINES, THEN THE COST SHALL BE BORNE BY THE CONTRACTOR.
- 3. TREE AND SHRUB PROTECTION DEVICES SHALL BE INSTALLED FOR ALL VEGETATION WITHIN THE PROJECT LIMITS THAT MAY BE IMPACTED DURING CONSTRUCTION.
- 4. ALL PROPOSED STREET NAME SIGNS WILL BE FURNISHED BY THE CITY OF EAST PROVIDENCE AND INSTALLED BY CONTRACTOR. EXISTING STREET NAME SIGNS WILL BE REMOVED AND DISPOSED BY CONTRACTOR. THIS WORK WILL ALSO INCLUDE STREET NAME SIGN REPLACEMENT WITHIN THE LIMITS OF "WARREN AVENUE ENHANCEMENT PROJECT PHASE 1" FROM BROADWAY TO LYON AVENUE.
- 5. THE PROPOSED STRIPING SHALL MATCH THE EXISTING STRIPING AT THE PROJECT LIMITS AND AT THE SIDE STREETS.
- 6. INSTALL NEW WATER GATE VALVE BOXES PER EAST PROVIDENCE WATER AUTHORITY (EPWA) SPECIFICATIONS. SEQUENCE OF CONSTRUCTION TO BE COORDINATED WITH THE EPWA.
- 7. TOPOGRAPHIC MAPPING FOR WARREN AVENUE ENHANCEMENT PREPARED BY GILBERT & MALONEY, PROVIDENCE, R.I. SR15 PROVIDED BY CITY OF EAST PROVIDENCE.
- 8. PLANIMETRIC PREPARED BY AEROTECH CORPORATION, PROVIDENCE, R.I.
- 9. DUST CONTROL MEASURES SHALL BE PROVIDED AT ALL TIMES.
- 10. THE CONTRACTOR SHALL COMPACT, IN SIX-INCH LAYERS, ALL MATERIALS USED FOR BACKFILL.
- 11. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES TO WITHIN THE PAY LIMITS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE PAYMENT LINES INDICATED SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
- 12. ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 MEAN SEA LEVEL = ELEVATION 0.00.
- 13. LOCATION AND DEPTHS 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.
- 14. WATER, GAS, SEWER AND OTHER UTILITIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- 15. SAWCUT ROAD AND SIDEWALK PAVEMENT FULL-DEPTH PRIOR TO PAVEMENT REMOVAL.
- 16. PAVED DRIVEWAYS AND WALKWAYS SHALL BE SAWCUT AT THE LIMITS SHOWN ON THE PLANS.
- 17. AT THE END OF EACH WORK DAY THE CONDUIT TRENCH SHALL BE TOTALLY BACKFILLED WITH ON-SITE EXCAVATED GRAVEL AND GRAVEL BORROW SUBBASE COURSE.
- 18. THE UNITED STATES POST OFFICE MAILBOXES MUST BE RELOCATED BY THE FEDERAL UNITED STATES POST OFFICE AT THEIR EXPENSE. THE CONTRACTOR SHALL COORDINATE HIS WORK WHERE NECESSARY WITH THE UNITED STATES POST OFFICE WHICH SHALL BE INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL PAYMENT FOR THIS COORDINATION WILL BE MADE.
- 19. THE "R.I. EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, LATEST EDITION, MUST BE UTILIZED BY THE CONTRACTOR AS A GUIDE.
- 20. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE CERTIFICATION BY A PROFESSIONAL ENGINEER THAT THE SOIL COMPACTION AT TRENCH CROSSINGS ON WARREN AVENUE MEETS NATIONAL GRID CONSTRUCTION STANDARDS, AT THE CONTRACTOR'S EXPENSE.
- 21. IF CONSTRUCTION IS NOT TAKING PLACE, TEMPORARY CONSTRUCTION TRAFFIC SIGNS MUST BE COVERED OR REMOVED.
- 22. EACH DWELLING UNIT AND COMMERCIAL ESTABLISHMENT SHALL BE ACCESSIBLE FOR RESIDENTS, TRASH REMOVAL, POSTAL SERVICE, AND CUSTOMERS.
- 23. PROPOSED ELECTRIC CONDUIT INSTALLATION INVOLVES THE CROSSING OF MANY GAS SERVICES OF VARIABLE BURIAL DEPTHS. HAND DIGGING IS REQUIRED AT EVERY GAS SERVICE CROSSING TO AVOID DAMAGE TO THE GAS SERVICES. ROTARY WHEEL OR OTHER MECHANICAL TRENCHING METHOD IS NOT PERMITTED IN THE VICINITY OF GAS FACILITIES.
- 24. THE EARTH EXCAVATION INCLUDES REMOVAL OF EXISTING SLATE CURB AS SMALL ROCK UNDER ONE CUBIC YARD.
- 25. THE FINAL LOCATION FOR THE INSTALLATION OF BENCHES, TRASH RECEPTACLES, PLANTERS, AND CUSTOM LAMP POSTS SHALL BE COORDINATED WITH THE CITY PLANNING DEPARTMENT. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE LOCATIONS PROVIDE FOR ADA ACCESSIBLE WIDTH WITHIN SIDEWALK.
- 26. THE CONTRACTOR SHALL CONTACT AND COORDINATE BUS STOP AFFECTS WITH THE RHODE ISLAND PUBLIC TRANSIT AUTHORITY (RIPTA) PRIOR TO PERFORMING ANY WORK IN THE AREA OF THEIR BUS STOP LOCATIONS.
- 27. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH VERIZON COMMUNICATIONS PRIOR TO PERFORMING ANY WORK IN THE AREA OF THEIR SERVICES.
- 28. PROPOSED SANITARY SEWER MANHOLE FRAMES AND COVERS WILL BE FURNISHED BY THE CITY AND INSTALLED BY CONTRACTOR. EXISTING SEWER MANHOLE FRAMES AND COVERS WILL BE REMOVED AND DISPOSED BY THE CONTRACTOR. SEQUENCE OF CONSTRUCTION TO BE COORDINATED WITH THE CITY.
- 29. DRIVEWAY LIMITS ARE APPROXIMATE. CONTRACTOR IS TO ADJUST THE LIMITS TO ENSURE THAT DRIVEWAYS ARE CONSTRUCTED PROPERLY AND THAT VEHICLES CAN ENTER/EXIT DRIVEWAYS WITHOUT BOTTOMING OUT.
- 30. CONTRACTOR SHALL CLEAN ALL DRAINAGE STRUCTURES AND DRAINAGE PIPES ON WARREN AVENUE WITHIN THE PROJECT LIMITS.
- 31. BITUMINOUS CONCRETE DRIVEWAYS (BCD) SHALL BE CONSTRUCTED WITH BITUMINOUS SURFACE COURSE CLASS 1-1, INSTEAD OF CLASS 1-2.
- 32. CONTRACTOR IS RESPONSIBLE TO PROTECT/MAINTAIN PROPERTY BOUNDS BASED ON SITE SPECIFIC CONDITIONS WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL NOTIFY ENGINEER TO ENSURE THAT PROPER TECHNIQUES ARE EFFECTIVELY UTILIZED.
- 33. LOCATIONS WHERE CURB WHEELCHAIR RAMPS ARE PLACED AND WHERE THERE EXISTS A CONFLICT WITH AN EXISTING STRUCTURE, (POLE, HYDRANT, GUY WIRE, ETC.), THE RAMP CAN ONLY BE SHIFTED SO THAT NO FIXED OBJECT IS IN THE MAIN RAMP TRANSITION. FIXED OBJECTS CAN EXIST IN THE RAMP TRANSITION, BUT NOT WITHIN THE MAIN RAMP AREA PROVIDING 36" MINIMUM CLEARANCE.
- 34. ANY CONFLICT BETWEEN THE CITY'S ELECTRIC PLANS AND THE NATIONAL GRID PLANS, THE NATIONAL GRID PLANS WILL GOVERN.

RIDEM RULE 6.01:

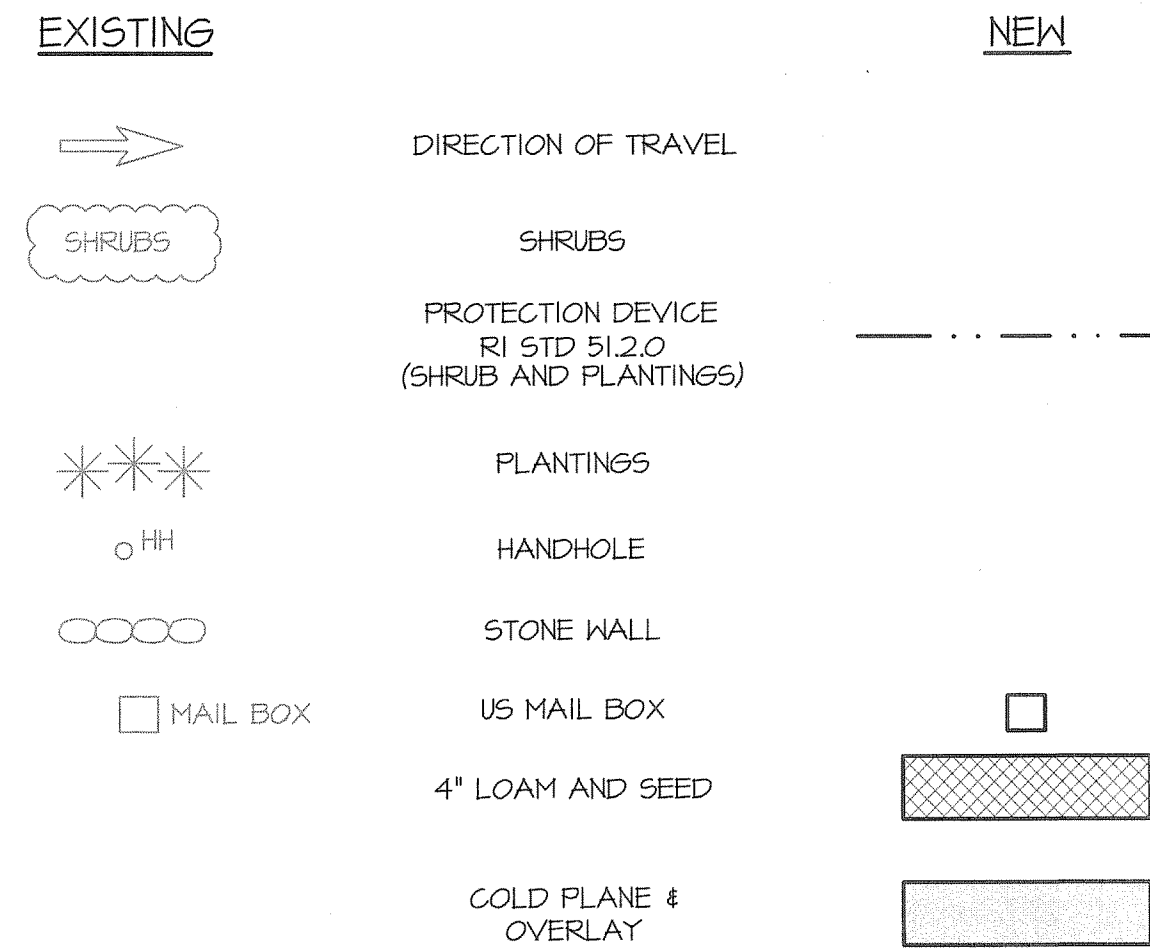
NO GRADING CHANGES ARE BEING PROPOSED. ALL CONDITIONS OF RIDEM WETLAND RULE 6.01, AS NOTED BELOW, WILL BE COMPLIANT WITH:

RULE 6.00 - EXEMPT ACTIVITIES

6.01 General Conditions for Exempt Activities

- A. Certain limited activities that may alter freshwater wetlands may proceed without a written permit from the Department, subject to the conditions and restrictions set forth below. Nonetheless, the Department strongly recommends that all such exempt activities or projects occur as far away from freshwater wetlands as possible.
- B. Nothing in this Rule 6.00 shall be deemed to:
 - 1) Limit or reduce, in any way, the Department's jurisdiction over freshwater wetlands; or
 - 2) Supersede any current terms or conditions of any permit, or
 - 3) Interfere with the Department's ability to make a determination or decision on an application, or
 - 4) Impose terms and conditions on any permit, enforcement action or Consent Agreement.
 Any activities not described within this Rule that could alter the character of any freshwater wetlands require a written permit.
- C. Nothing in this Rule shall preclude the Department from initiating an enforcement action in the event of any failure to undertake exempt activities in accordance with the requirements and conditions set forth herein.
- D. The following general restrictions apply to all activities performed under this Rule:
 - 1) Exempted activities do not obviate the need to obtain other applicable federal, state, or local permits, approvals, or authorizations required by law;
 - 2) Any structure or fill exempt under this Rule shall be properly maintained to ensure public safety, and to protect wetland functions and values;
 - 3) Best management practices for erosion and sediment controls must be used and maintained in effective operating condition during the activity, and all exposed soil and other fills must be permanently stabilized at the earliest possible date. (See "Rhode Island Soil Erosion and Sediment Control Handbook" ("RISESC Handbook") and the latest version of the "Rhode Island Stormwater Design and Installation Standards Manual" ("RISDIS Manual") for design guidance and additional requirements");
 - 4) No activity exempted herein may jeopardize the continued existence of a rare wetland type, or a rare species; likewise, no activity exempted herein may destroy or adversely modify the critical habitat of such species;
 - 5) Following the limited activity, all equipment used in installation or maintenance activities shall be removed from any wetland; and
 - 6) All wetland functions and values must be protected to the maximum extent possible so as to prevent pollutants, sediment, direct discharge of stormwater runoff, or any material foreign to a wetland or hazardous to life, from entering any wetland.

JOB SPECIFIC PLAN SYMBOLS



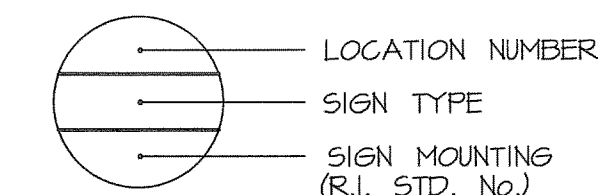
JOB SPECIFIC LEGEND

R.I. STD. DETAILS:

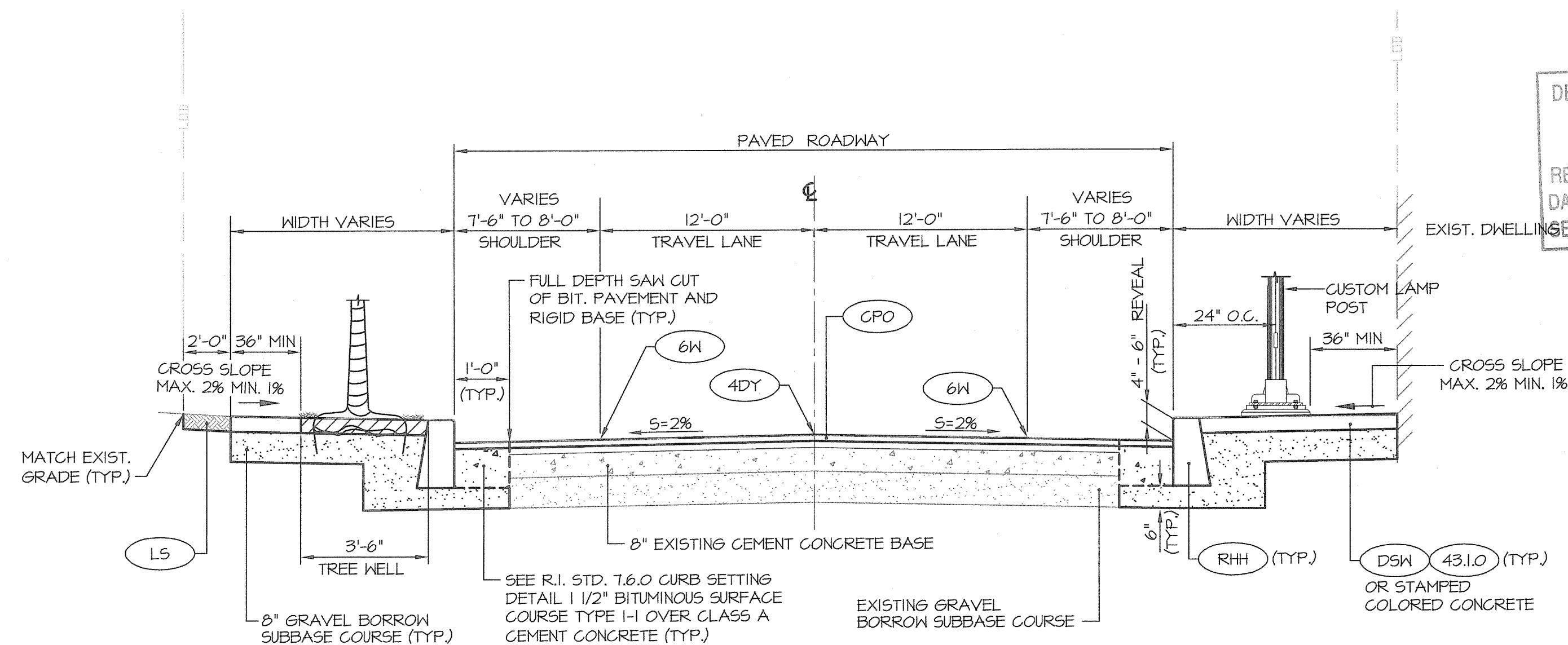
- (14.6.0) INDUCTANCE LOOP VEHICLES DETECTOR
- (26.1.0) FLUORESCENT TRAFFIC CONES
- (29.1.0) CONSTRUCTION SIGNS
- (48.1.0) DETECTABLE WARNING SYSTEM - COLOR BLACK
- (RCB) RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET (SEE "DETAILS")
- (BCD) BITUMINOUS CONCRETE DRIVEWAY
3" BITUMINOUS SURFACE COURSE, CLASS 1-1
6" GRAVEL BORROW SURFACE COURSE

ABBREVIATIONS:

- (AMW) ADJUST MONITORING WELL COVER
- (CM) CUT AND MATCH (LIMIT OF DISTURBANCE)
(SEE "DETAILS")
- (GPO) COLD PLANE 1 1/2" OF EXISTING PAVEMENT
OVERLAY 1 1/2" BITUMINOUS SURFACE COURSE, CLASS 1-1
ASPHALT EMULSION TACK COAT BETWEEN ASPHALT LAYERS
CRACKSEAL CRACKS ON COLD PLANE SURFACE IN ACCORDANCE
WITH "CRACK SEALING NOTES" ON "STANDARD NOTE" SHEET.
- (D&C) REMOVE AND DISPOSE GRANITE CURB
- (ETR) EXISTING TO REMAIN
- (IFC) INSTALL FRAME AND COVER (SEE NOTE 28 THIS SHEET)
- (RDG) REMOVE AND DISPOSE CATCH BASIN GRANITE SLAB
- (RDT) REMOVE AND DISPOSE TREE AND/OR STUMP
- (RP) REMOVE TRAFFIC CONTROL PAINT BY SANDBLASTING



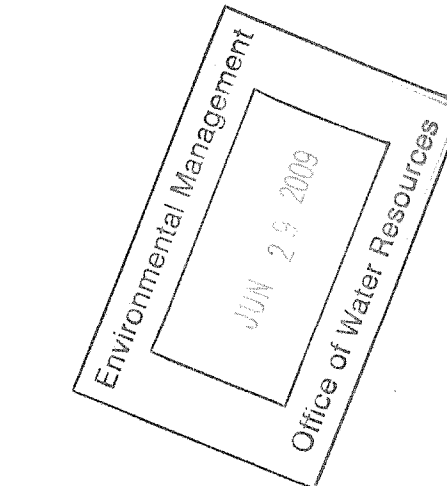
TYPICAL SIGN DESIGNATION SYMBOL



TYPICAL ROADWAY SECTION
WARREN AVENUE FROM STA. 12+00 TO STA. 30+55

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 11-011
DATED JUL 25 2011
SEE LETTER OF SAME DATE.

Charles A. Habert



WARREN AVENUE/BROADWAY CORRIDOR
REVITALIZATION PROJECT PHASE 2
AND KENT HEIGHTS ELEMENTARY SCHOOL, SR15
CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
EAST PROVIDENCE
RHODE ISLAND

REVISIONS:

NO.	DESCRIPTION

PROJECT NO.: 03072.02
DATE: DECEMBER 2009
SCALE: AS NOTED
DESIGNED BY: SL
CHECKED BY: JPS
DRAWN BY: AKD, JDB
APPROVED BY: JPS
DRAWING TITLE:

JOB SPECIFIC AND TYPICAL SECTIONS

DRAWING NO.: **C4**
SHEET NO. 4 OF 23

WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRTS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND

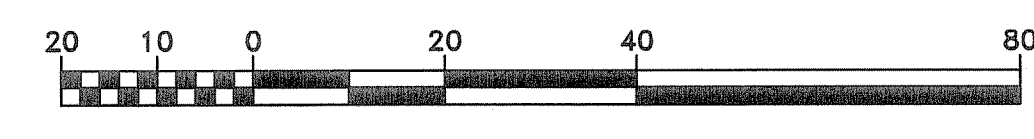
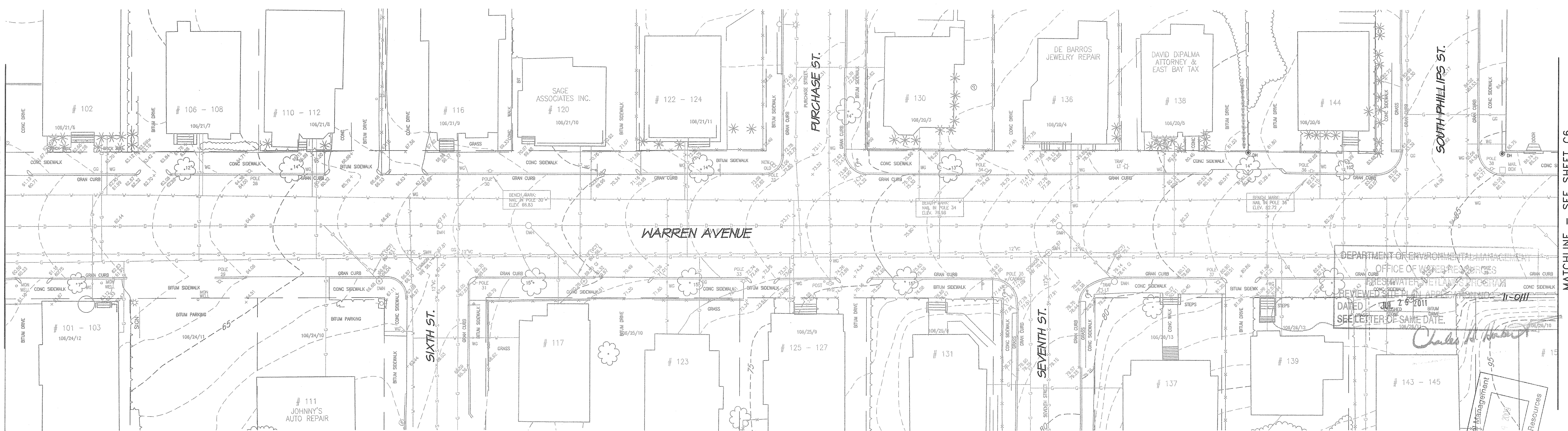
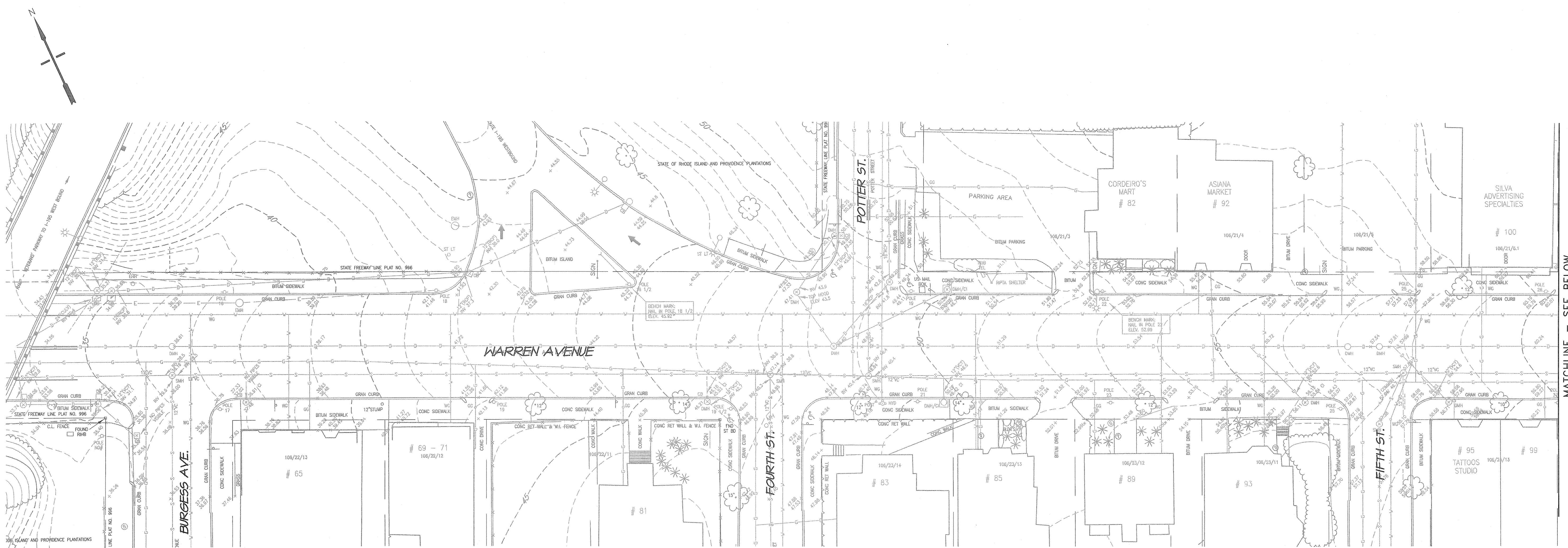
REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: SL
 CHECKED BY: JH
 DRAWN BY: AKD
 APPROVED BY: JPS
 DRAWING TITLE:

EXISTING
 CONDITIONS PLAN 1

DRAWING NO.:
C5
 SHEET NO. 5 OF 23



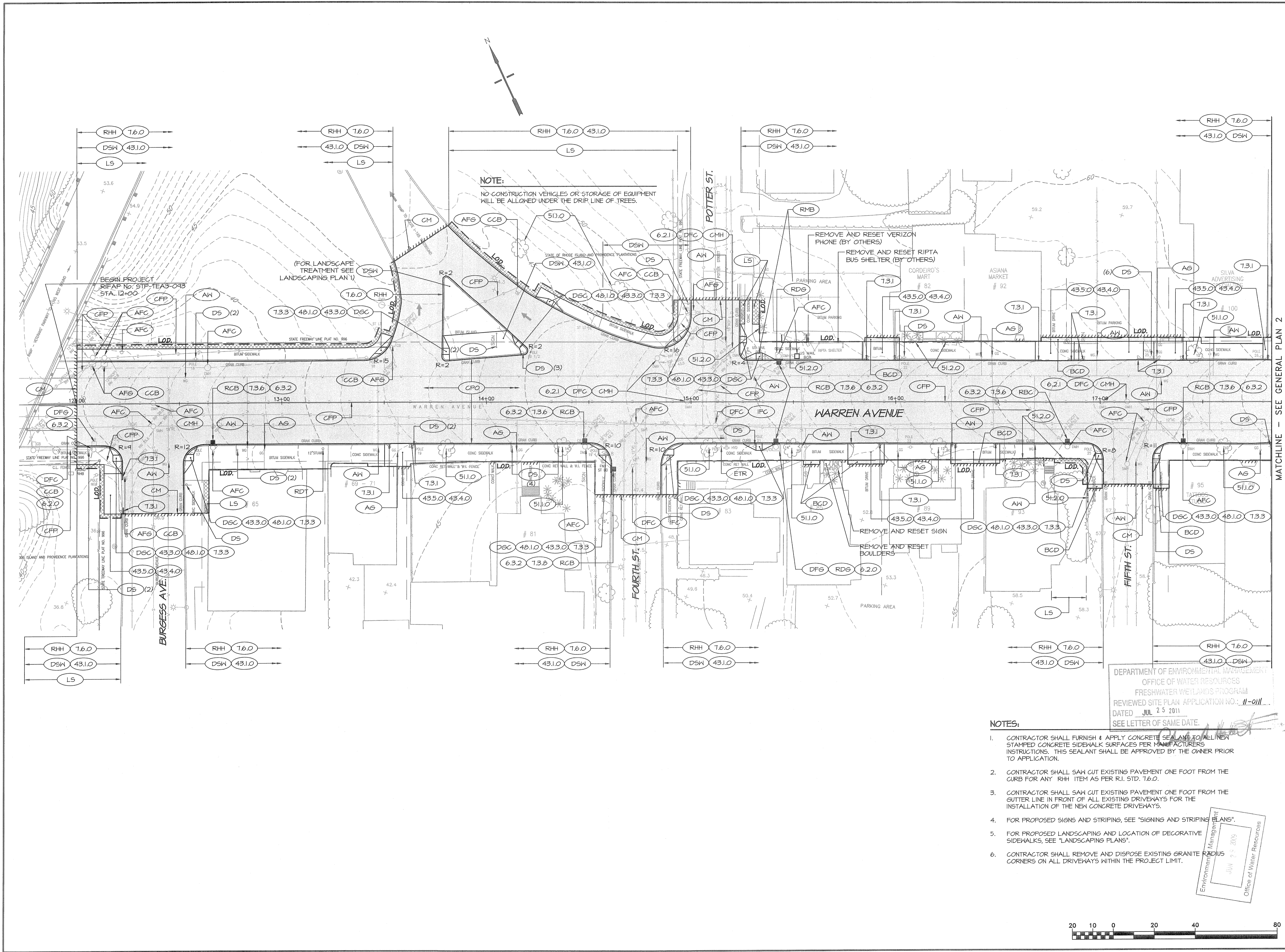
MATCHLINE - SEE ABOVE

MATCHLINE - SEE BELOW

MATCHLINE - SEE SHEET C6

Environmental Management
 Office of Water Resources
 JUL 28 2010

DEPARTMENT OF ENVIRONMENTAL PLANNING
 OFFICE OF WATER RESOURCES
 REVISED SITE PLAN APPROVED
 DATED JUL 28 2010
 SEE CENTER OF SAME DATE.

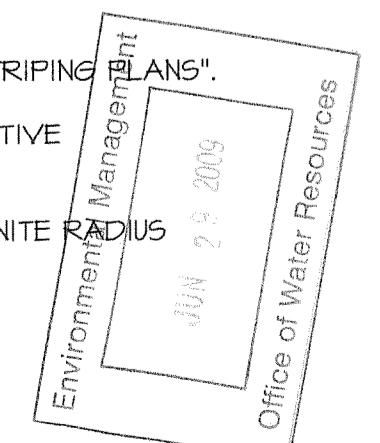


NOTE:
 NO CONSTRUCTION VEHICLES OR STORAGE OF EQUIPMENT
 WILL BE ALLOWED UNDER THE DRIP LINE OF TREES.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-0111
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.

NOTES:

- CONTRACTOR SHALL FURNISH & APPLY CONCRETE SEALANT TO ALL NEW STAMPED CONCRETE SIDEWALK SURFACES PER MANUFACTURERS INSTRUCTIONS. THIS SEALANT SHALL BE APPROVED BY THE OWNER PRIOR TO APPLICATION.
- CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT ONE FOOT FROM THE CURB FOR ANY "RHH" ITEM AS PER R.I. STD. 7.6.0.
- CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT ONE FOOT FROM THE GUTTER LINE IN FRONT OF ALL EXISTING DRIVEWAYS FOR THE INSTALLATION OF THE NEW CONCRETE DRIVEWAYS.
- FOR PROPOSED SIGNS AND STRIPING, SEE "SIGNING AND STRIPING PLANS".
- FOR PROPOSED LANDSCAPING AND LOCATION OF DECORATIVE SIDEWALKS, SEE "LANDSCAPING PLANS".
- CONTRACTOR SHALL REMOVE AND DISPOSE EXISTING GRANITE RADIUS CORNERS ON ALL DRIVEWAYS WITHIN THE PROJECT LIMIT.



MATCHLINE - SEE GENERAL PLAN 2

**WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRIS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND**

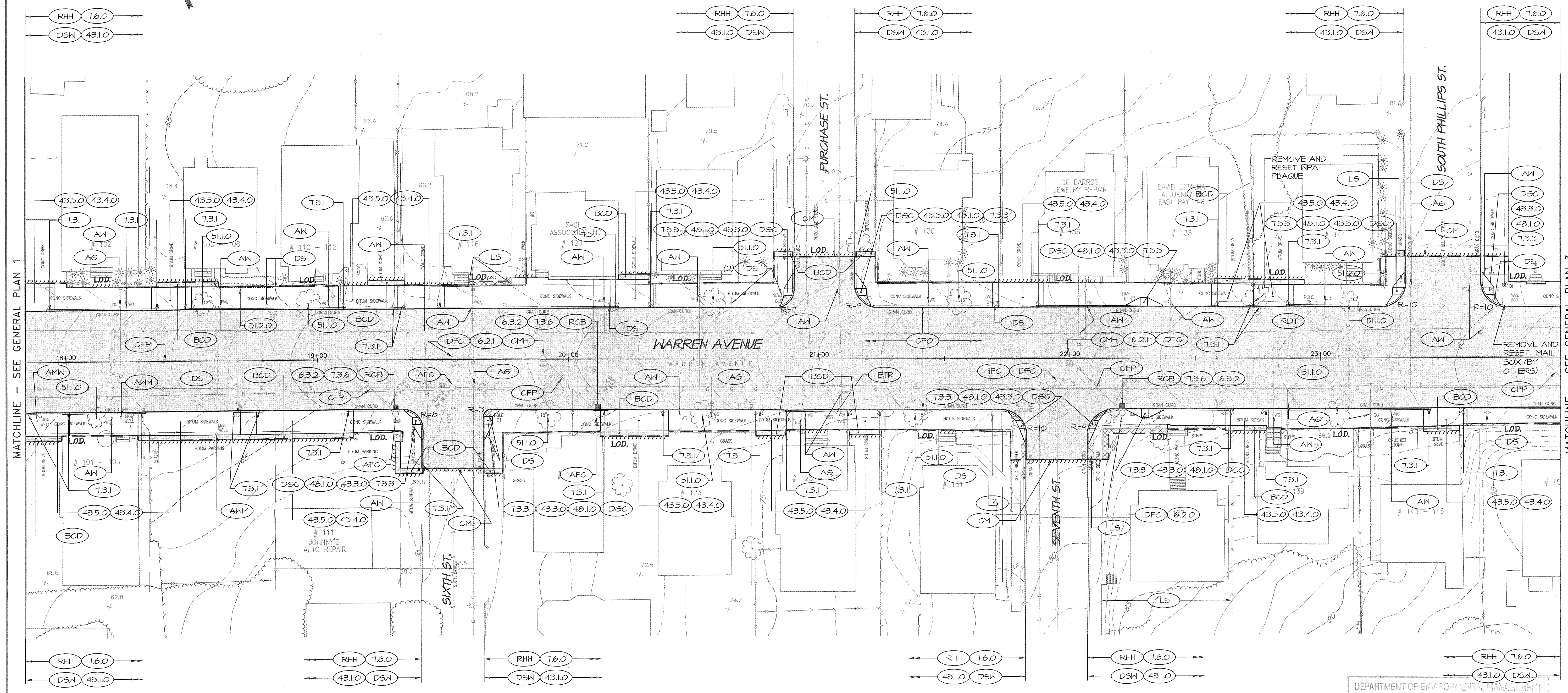
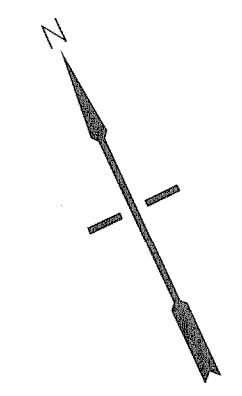
REVISIONS:

NO.	DESCRIPTION

PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: SL
 CHECKED BY: JH
 DRAWN BY: RJK, AKD
 APPROVED BY: JPS
 DRAWING TITLE:

GENERAL PLAN 1

DRAWING NO.: **C7**
 SHEET NO. 7 OF 23



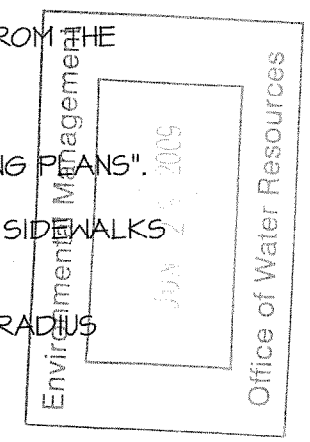
MATCHLINE - SEE GENERAL PLAN 1

MATCHLINE - SEE GENERAL PLAN 3

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-0111
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE

NOTES:

1. CONTRACTOR SHALL FURNISH & APPLY CONCRETE SEALANT TO ALL NEW STAMPED CONCRETE SIDEWALK SURFACES PER MANUFACTURERS INSTRUCTIONS. THIS SEALANT SHALL BE APPROVED BY THE OWNER PRIOR TO APPLICATION.
2. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT ONE FOOT FROM THE CURB FOR ANY "RHH" ITEM AS PER R.I. STD. 7.6.0.
3. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT ONE FOOT FROM THE GUTTER LINE IN FRONT OF ALL EXISTING DRIVEWAYS FOR THE INSTALLATION OF THE NEW CONCRETE DRIVEWAYS.
4. FOR PROPOSED SIGNS AND STRIPING, SEE "SIGNING AND STRIPING PLANS".
5. FOR PROPOSED LANDSCAPING AND LOCATION OF DECORATIVE SIDEWALKS & CROSSWALKS, SEE "LANDSCAPING PLANS".
6. CONTRACTOR SHALL REMOVE AND DISPOSE EXISTING GRANITE RADIUS CORNERS ON ALL DRIVEWAYS WITHIN THE PROJECT LIMIT.



WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRIS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND

REVISIONS:

NO.	DESCRIPTION

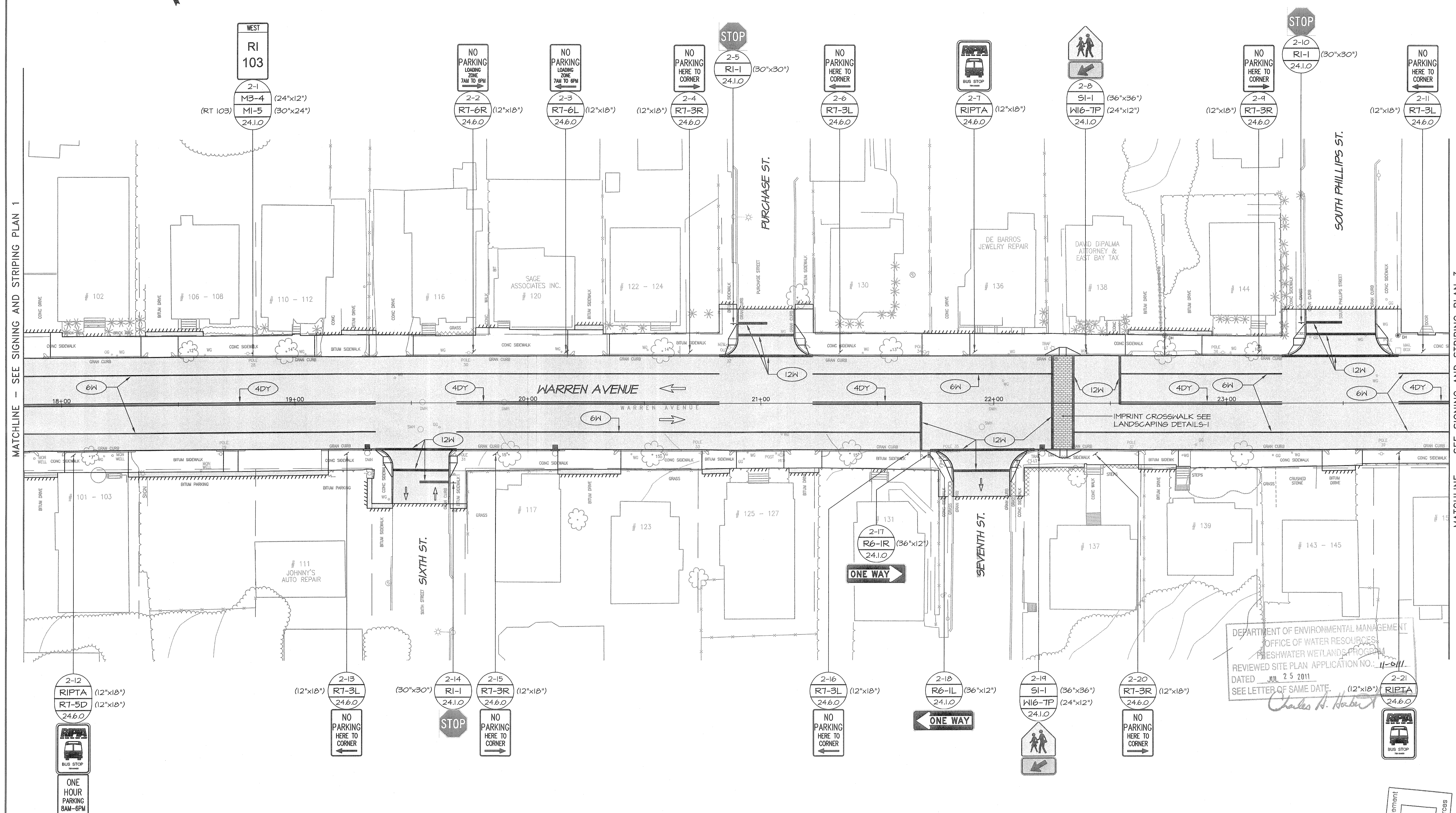
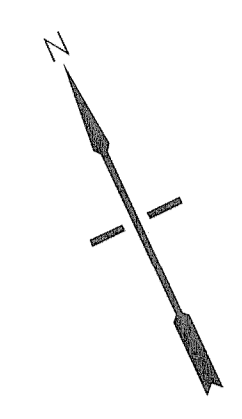
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 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: SL
 CHECKED BY: JH
 DRAWN BY: RJK, AKD
 APPROVED BY: JPS
 DRAWING TITLE:

GENERAL PLAN 2

DRAWING NO.: C8

SHEET NO. 8 OF 23





MATCHLINE - SEE SIGNING AND STRIPING PLAN 1

MATCHLINE - SEE SIGNING AND STRIPING PLAN 3

**WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRTS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 11-6111
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.
Charles H. Harbert

- NOTES:**
- FOR SIGNING AND STRIPING DETAIL SEE "DETAILS" SHEET C13.
 - FOR RIPTA SIGN DETAIL SEE "DETAILS" SHEET C13.

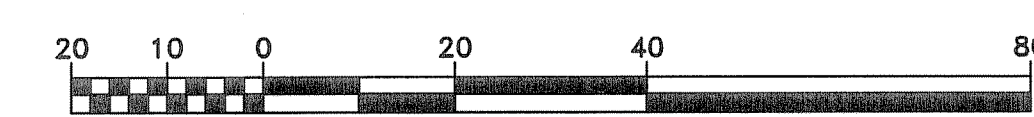
REVISIONS:

NO.	DESCRIPTION

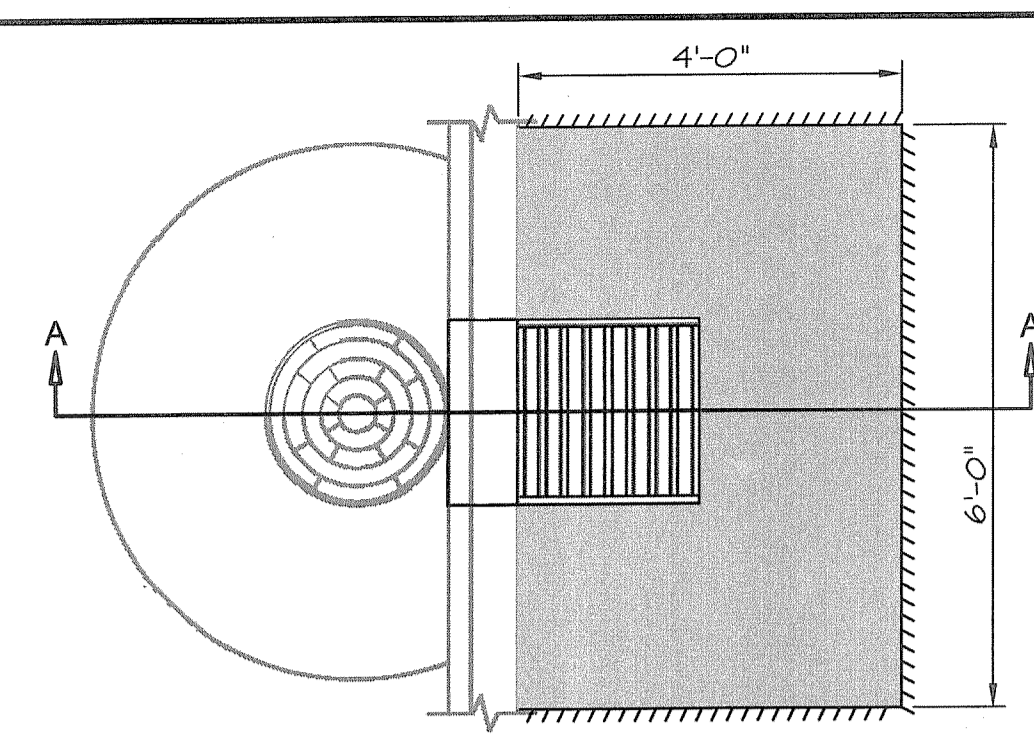
PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: SL
 CHECKED BY: JH
 DRAWN BY: AKD, JDB
 APPROVED BY: JPS
 DRAWING TITLE:

SIGNING AND STRIPING PLAN 2

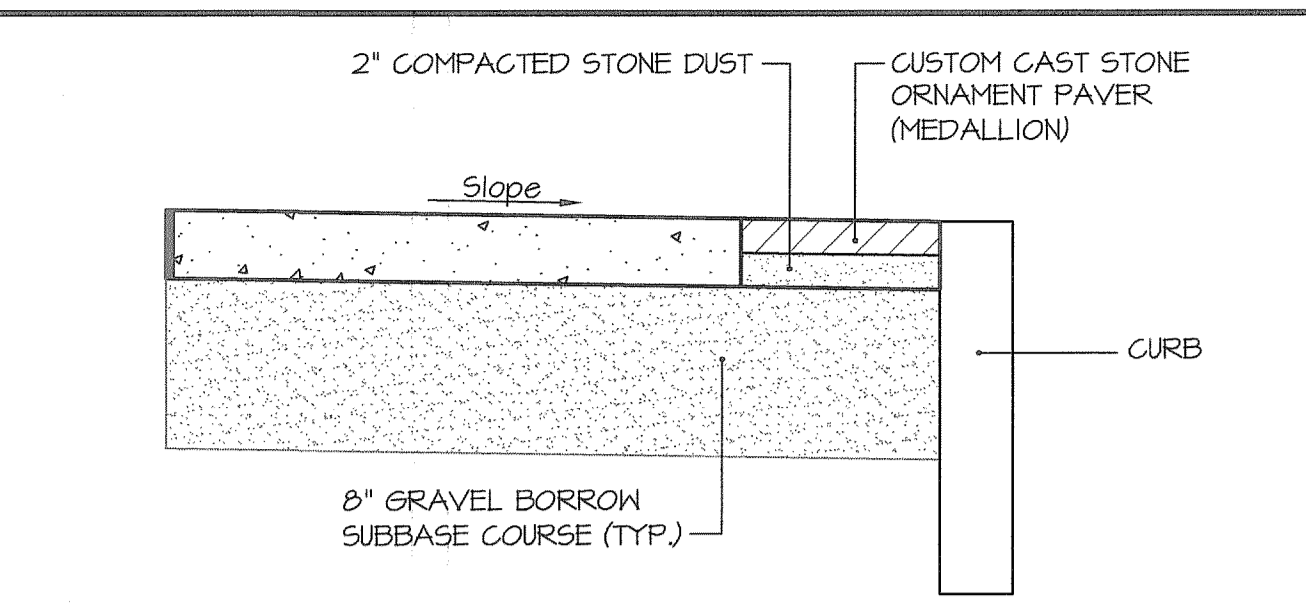
DRAWING NO.: **C11**
 SHEET NO. 11 OF 23



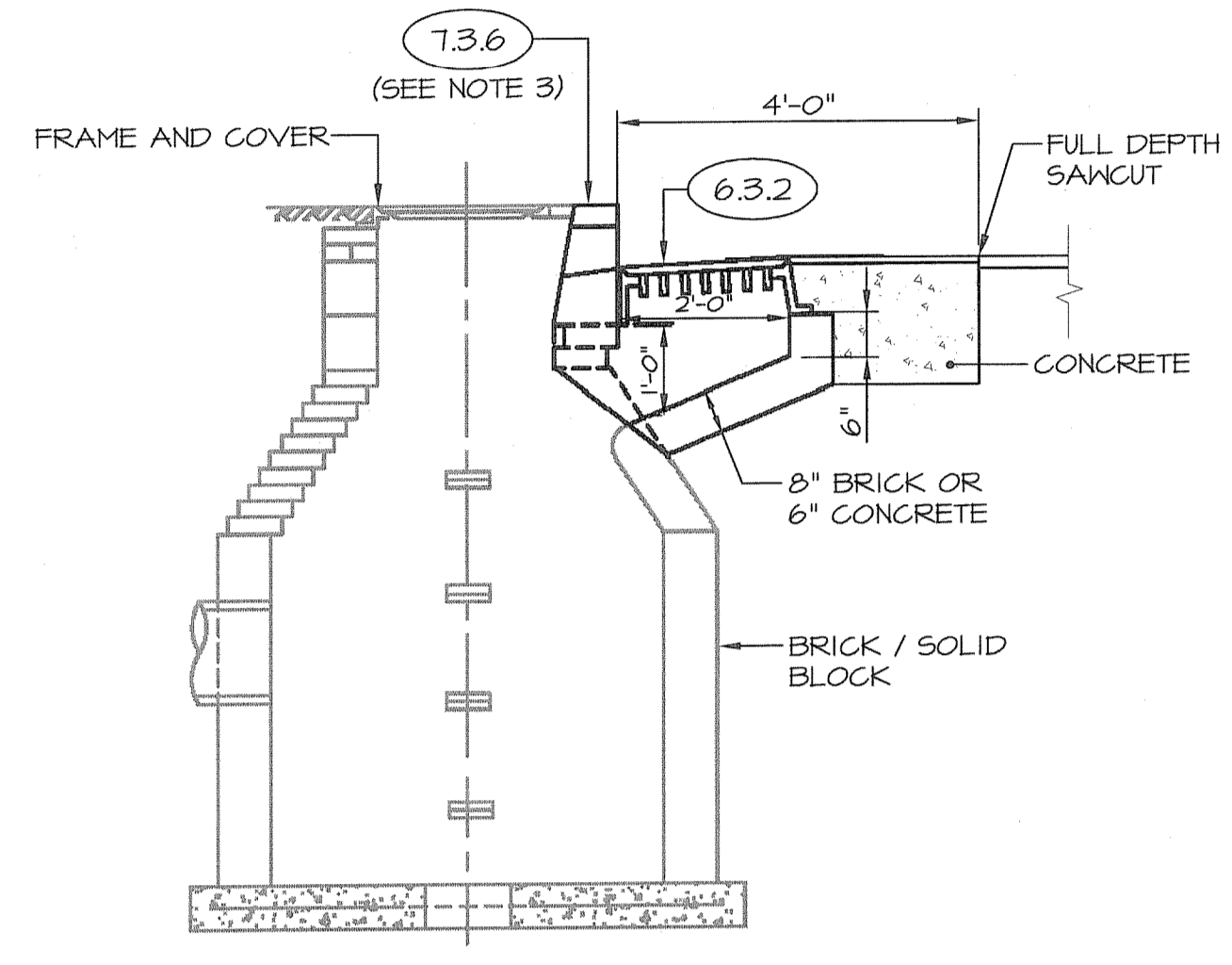
Environmental Management
 JUN 29 2009
 Office of Water Resources



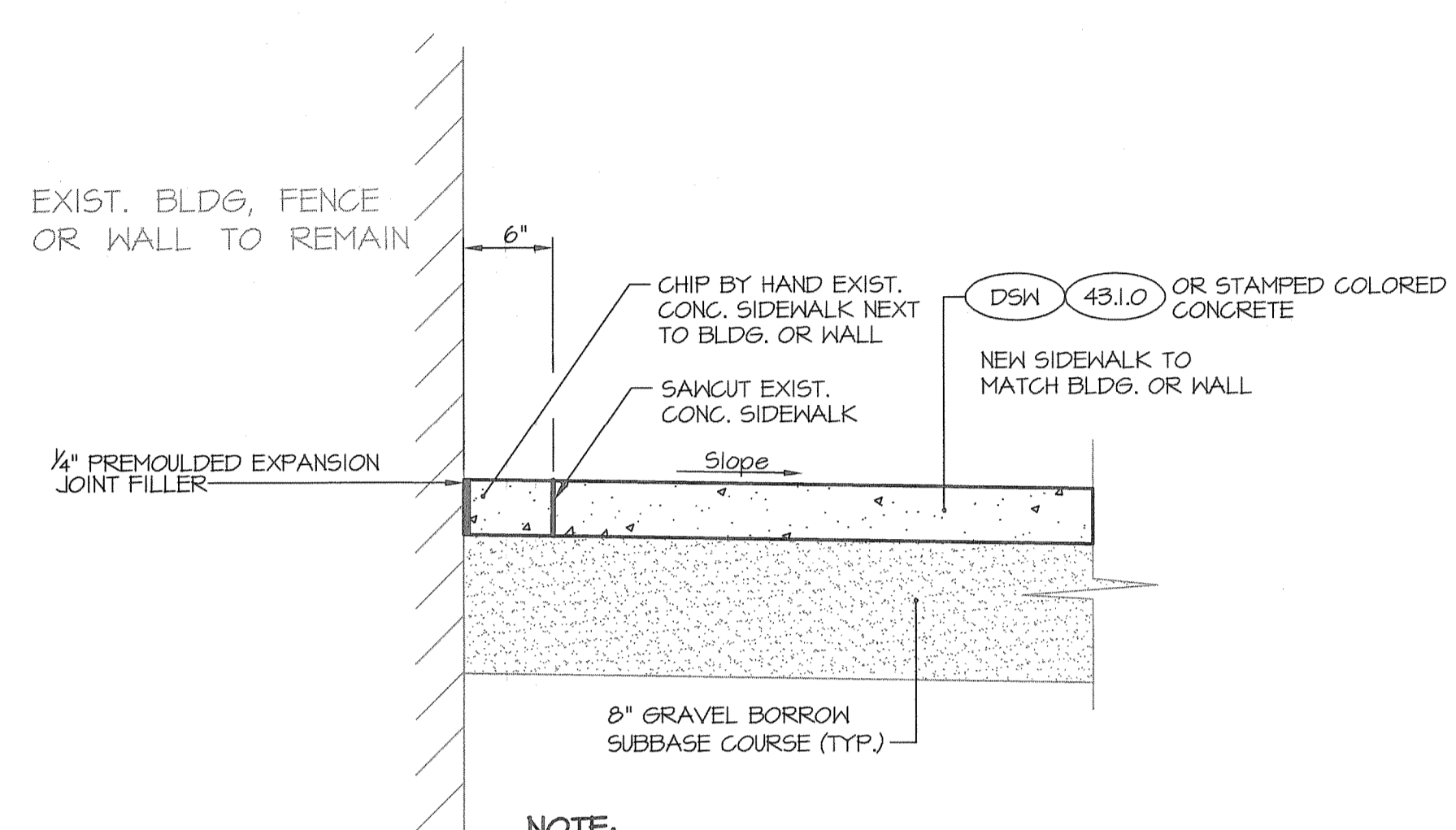
PLAN VIEW



TYPICAL SECTION FOR CUSTOM CAST STONE ORNAMENT PAVER (MEDALLION)
NOT TO SCALE



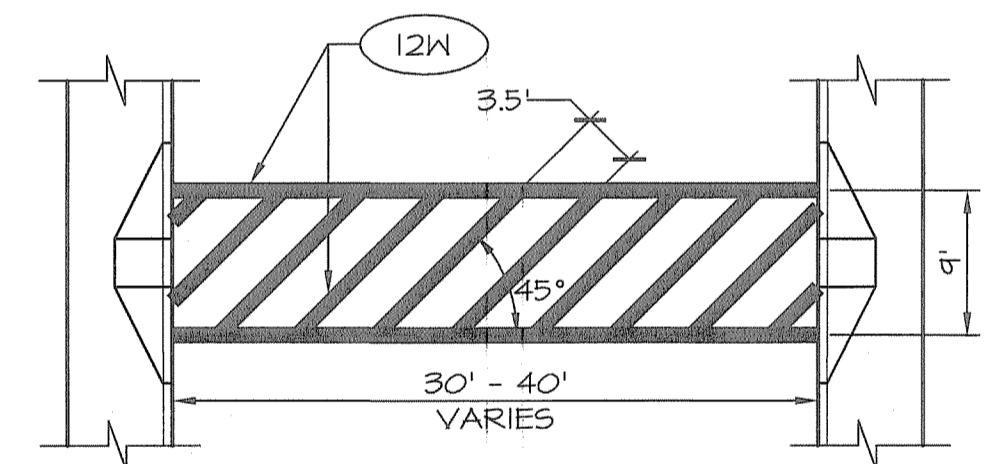
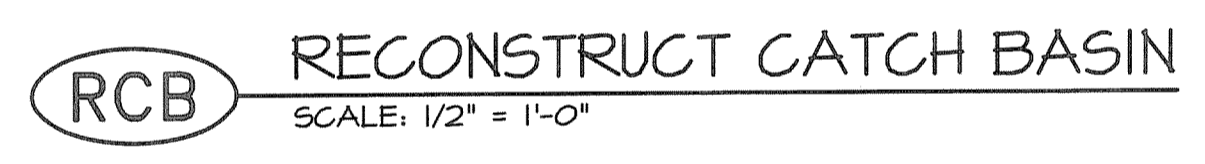
SECTION A-A



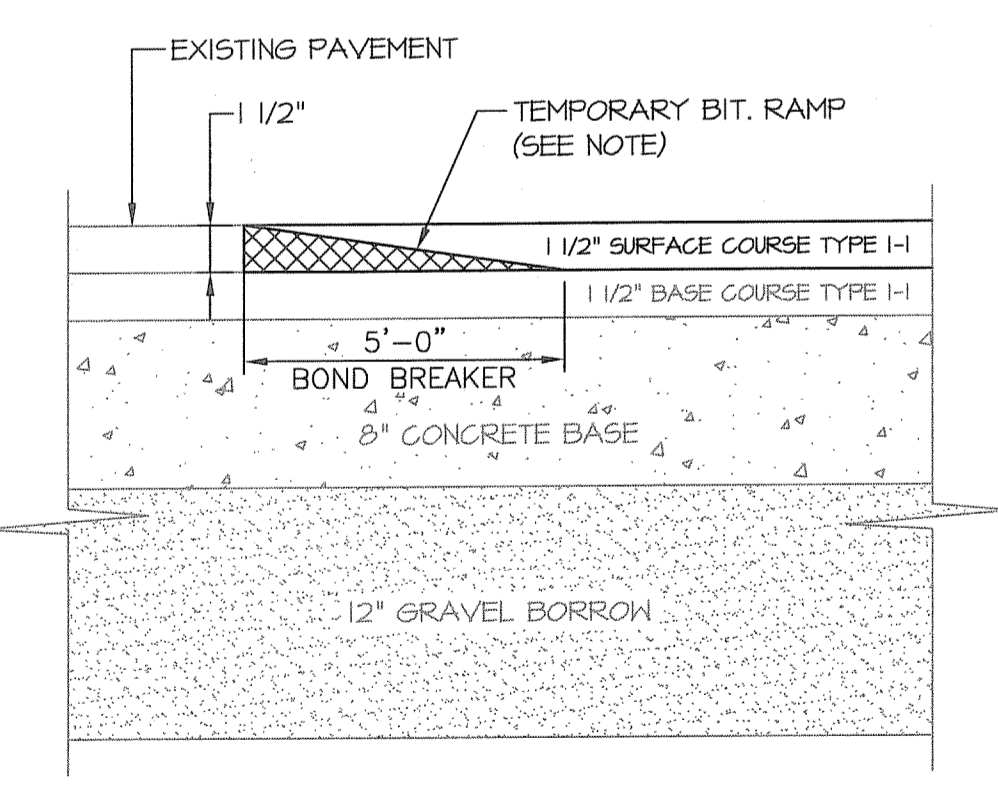
SIDEWALK @ BUILDING / WALL TYPICAL SECTION
NOT TO SCALE

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 105 OF THE R.I. STANDARD SPECIFICATIONS.
 - 1/4" CEMENT MOTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.
 - THE EXISTING GRANITE INLET STONES ARE TO BE RETAINED IF THEY ARE IN GOOD CONDITION. IF THE EXISTING GRANITE INLET STONES ARE NOT IN GOOD CONDITION, THEY SHALL BE REPLACED AND PAID FOR UNDER APPLICABLE ITEM IN THIS CONTRACT.

NOTE:
EXTREME CARE SHALL BE TAKEN WHEN REMOVING SIDEWALKS NOT TO AFFECT THE STRUCTURAL INTEGRITY OF BUILDINGS OR WALLS. THE CONTRACTOR SHALL CUT A 6" x 12" TEST AREA AT EACH BUILDING OR WALL AND REMOVE THE SIDEWALK, FOR THE ENGINEER TO VISUALLY INSPECT THE DISTURBED AREA.



MID-BLOCK CROSSWALK STRIPING DETAIL
NOT TO SCALE



NOTE:
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.



SIGN DETAIL 1:20

SIGN NUMBER	name					
WIDTH x HGHT.	8'-0" x 4'-0"					
BORDER WIDTH	1.25"					
CORNER RADIUS	6"					
MOUNTING	Ground					
BACKGROUND	TYPE: Reflective					
	COLOR: Green					
LEGEND/BORDER	TYPE: Reflective					
	COLOR: White/White					

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	18.8	20.7	22.5	18
ARMED	180	18.9	8.3	8	12.6

Panel Style: guide_exp_distance.ssi
Dimensions are in inches.tenths
Letter widths are shown

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
W	E	S	T								D 2000
7.1	3.7	4.1	3.7							20.9	8,6
P	r	o	v	i	d	e	n	c	e		D 2000
4.1	2.3	3.7	4.3	1	3.6	3.5	3.5	3.5	3.5	39.7	6/4.4

SP-1

SIGN DETAIL 1:20

SIGN NUMBER	name					
WIDTH x HGHT.	8'-0" x 4'-0"					
BORDER WIDTH	1.25"					
CORNER RADIUS	6"					
MOUNTING	Ground					
BACKGROUND	TYPE: Reflective					
	COLOR: Green					
LEGEND/BORDER	TYPE: Reflective					
	COLOR: White/White					

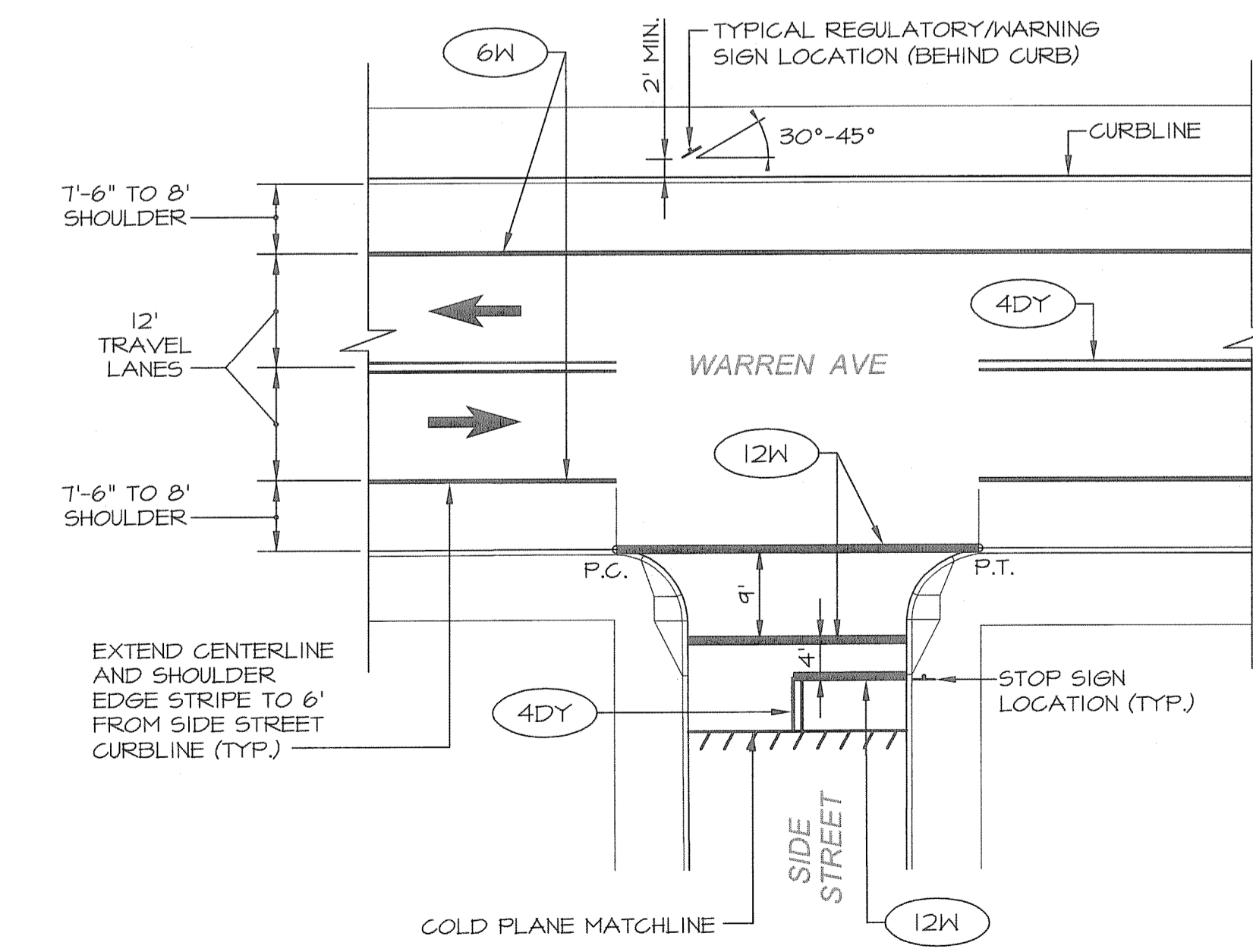
SYMBOL	ROT	X	Y	WID	HT
M1_1	0	15.1	18.7	30	24
ARMED	0	68.3	4.3	8	12.6

Panel Style: guide_exp_distance.ssi
Dimensions are in inches.tenths
Letter widths are shown

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
W	E	S	T								D 2000
7.1	3.7	4.1	3.7							20.9	8,6
P	r	o	v	i	d	e	n	c	e		D 2000
4.1	2.3	3.7	4.3	1	3.6	3.5	3.5	3.5	3.5	39.7	6/4.4

SP-2

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION T15 OF THE R.I. STANDARD SPECIFICATIONS AND THE LATEST EDITION OF MUTCD.
 - SIGN SHALL BE TYPE V GRADE SHEETING.
 - SIGN DIMENSIONS AND GRAPHICS SHALL BE AS SHOWN.
 - THE CONTRACTOR SHALL PROVIDE A GRAPHIC IMAGE TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

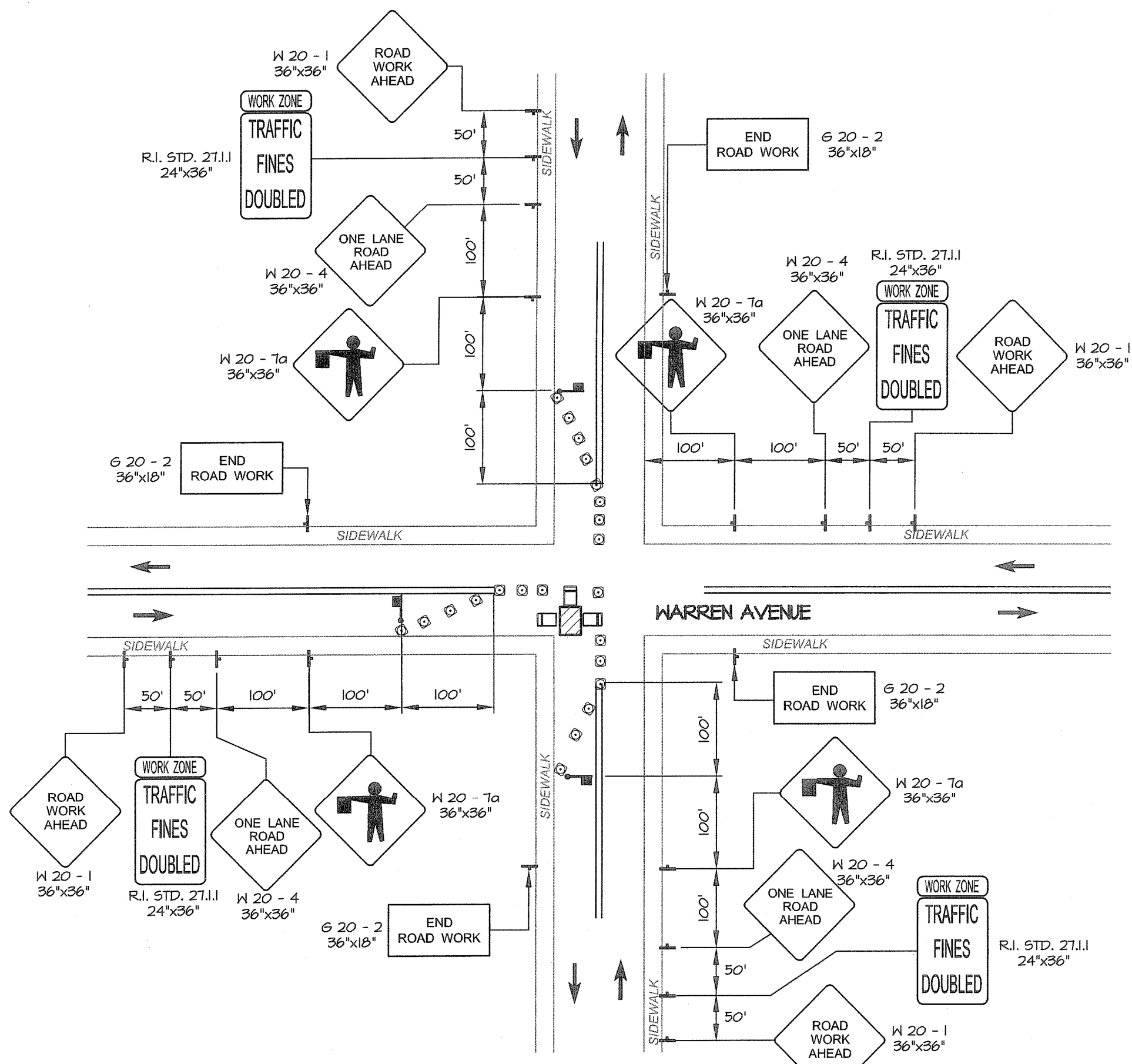


TYPICAL PLAN FOR STRIPING & SIGN LOCATION AT CURBED ROADWAYS

DEPARTMENT OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 11-011
DATED JUL 25 2011
SEE LETTER OF SAME DATE

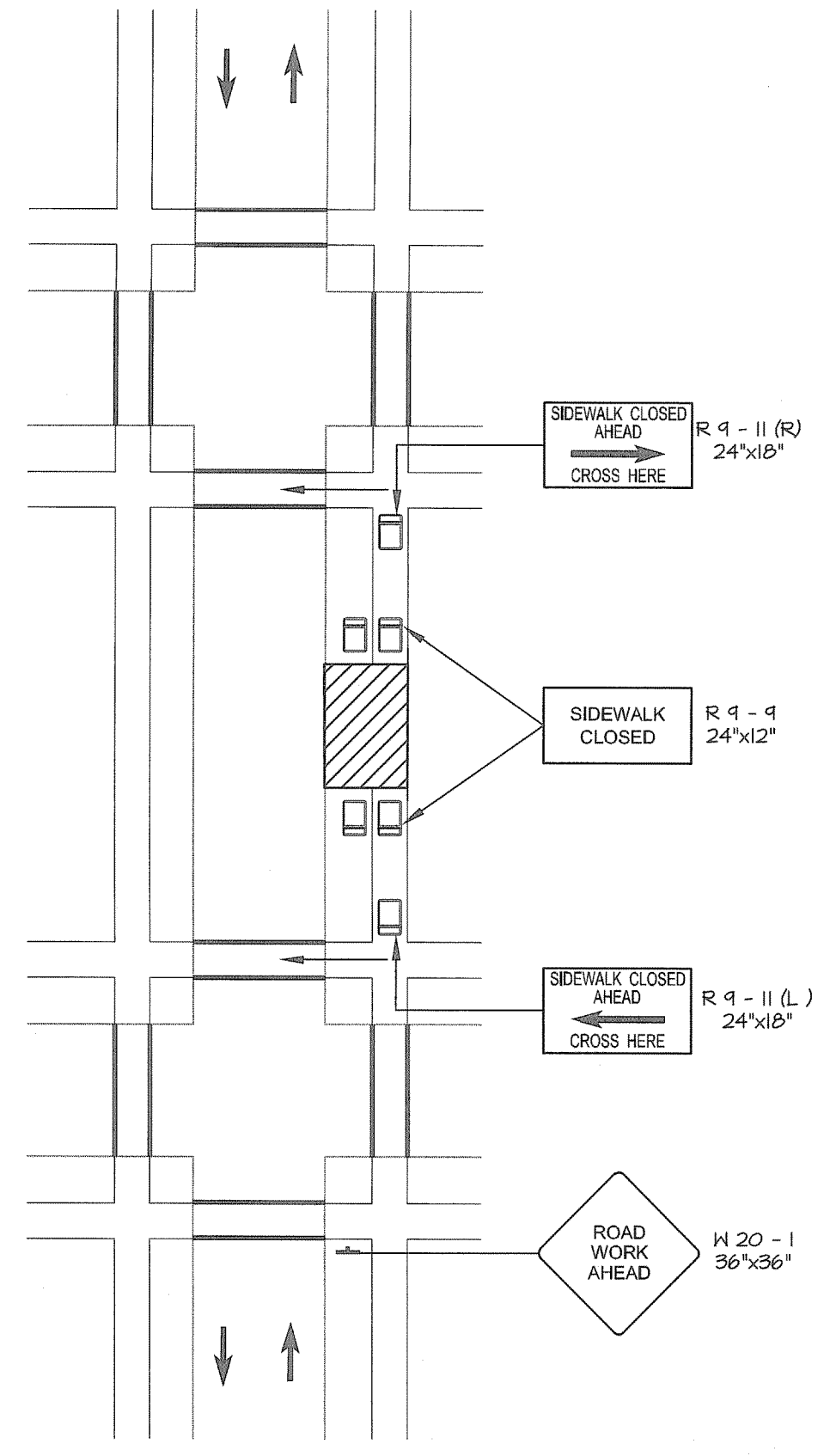
Environmental Management
Office of Water Resources

- NOTES:**
- WAVE COLOR SHALL BE #5483 PRO BLUE.
 - ALL OTHER LEGEND & BORDER SHALL BE #303 PRO BLUE, PANTONE COLORS.
- RIPTA BUS SIGN



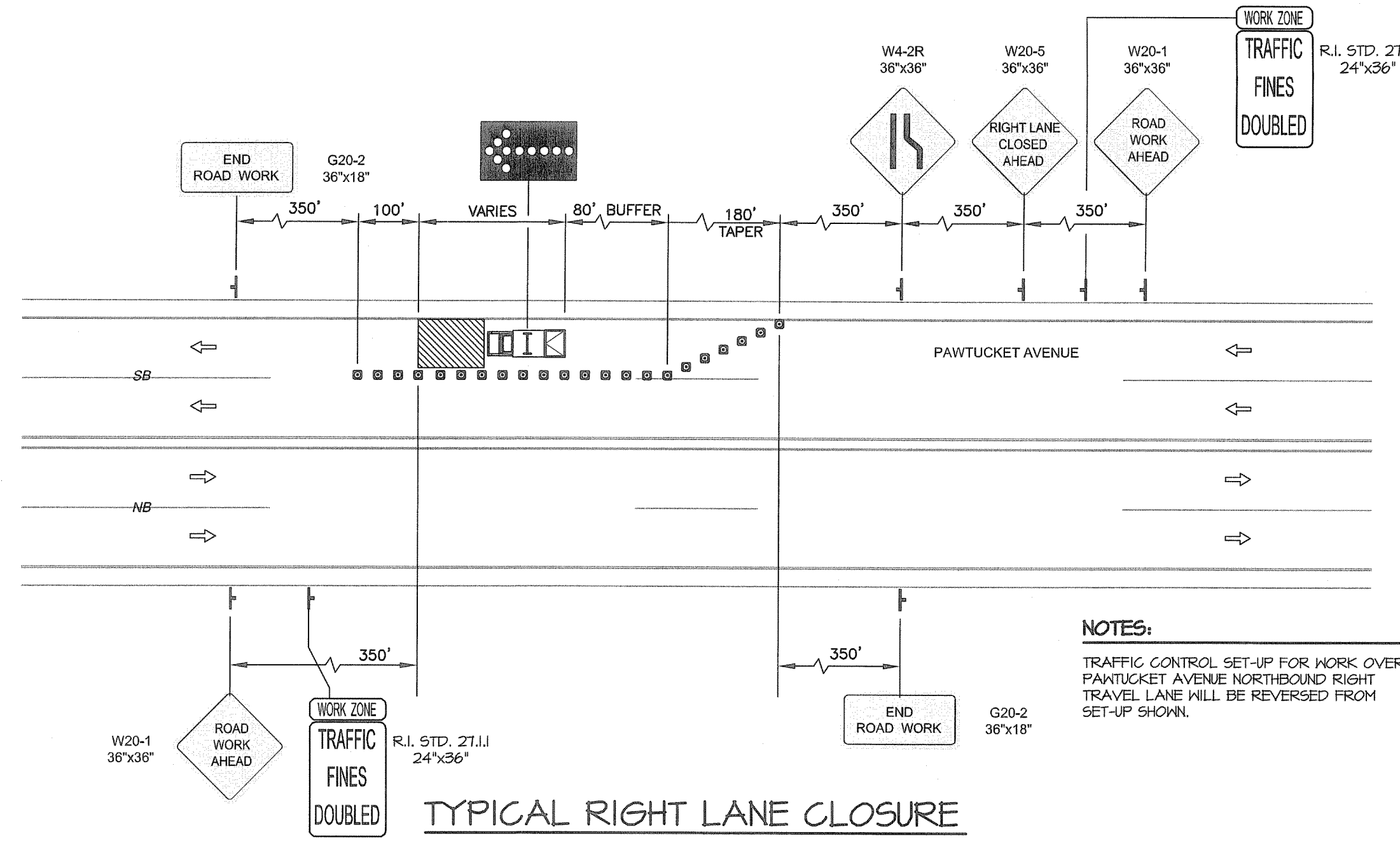
**TYPICAL CLOSURE AT SIDE OF INTERSECTION
 WARREN AVENUE**

- NOTES:**
- ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2004 EDITION WITH ALL REVISIONS.
 - ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE WORK AREA SHALL BE MAINTAINED AT ALL TIMES.
 - ALL SIGNS SHALL BE ERECTED FOR MAXIMUM VISIBILITY.
 - TEMPORARY "NO PARKING" SIGNS WILL BE FURNISHED BY THE CITY OF EAST PROVIDENCE AND INSTALLED BY CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE CITY AND ALL SIGNS SHALL BE INSTALLED 24 HRS PRIOR TO COMMENCING THEIR WORK.
 - THE MAXIMUM SPACING BETWEEN THE FLUORESCENT TRAFFIC CONES FOR SETUPS ON WARREN AVENUE AND PAWTUCKET AVENUE SHALL BE TWENTY-FIVE (25) FEET. ALL CONES PLACED ON SIDE STREETS ALONG WARREN AVENUE AND PAWTUCKET AVENUE SHALL BE SPACED NO MORE THAN TWENTY (20) FEET.
 - "WORK-ZONE - TRAFFIC FINES DOUBLED" SIGNS SHALL BE INSTALLED WITHIN ALL WORK ZONES IN ACCORDANCE WITH RI STANDARD 27.1.1.



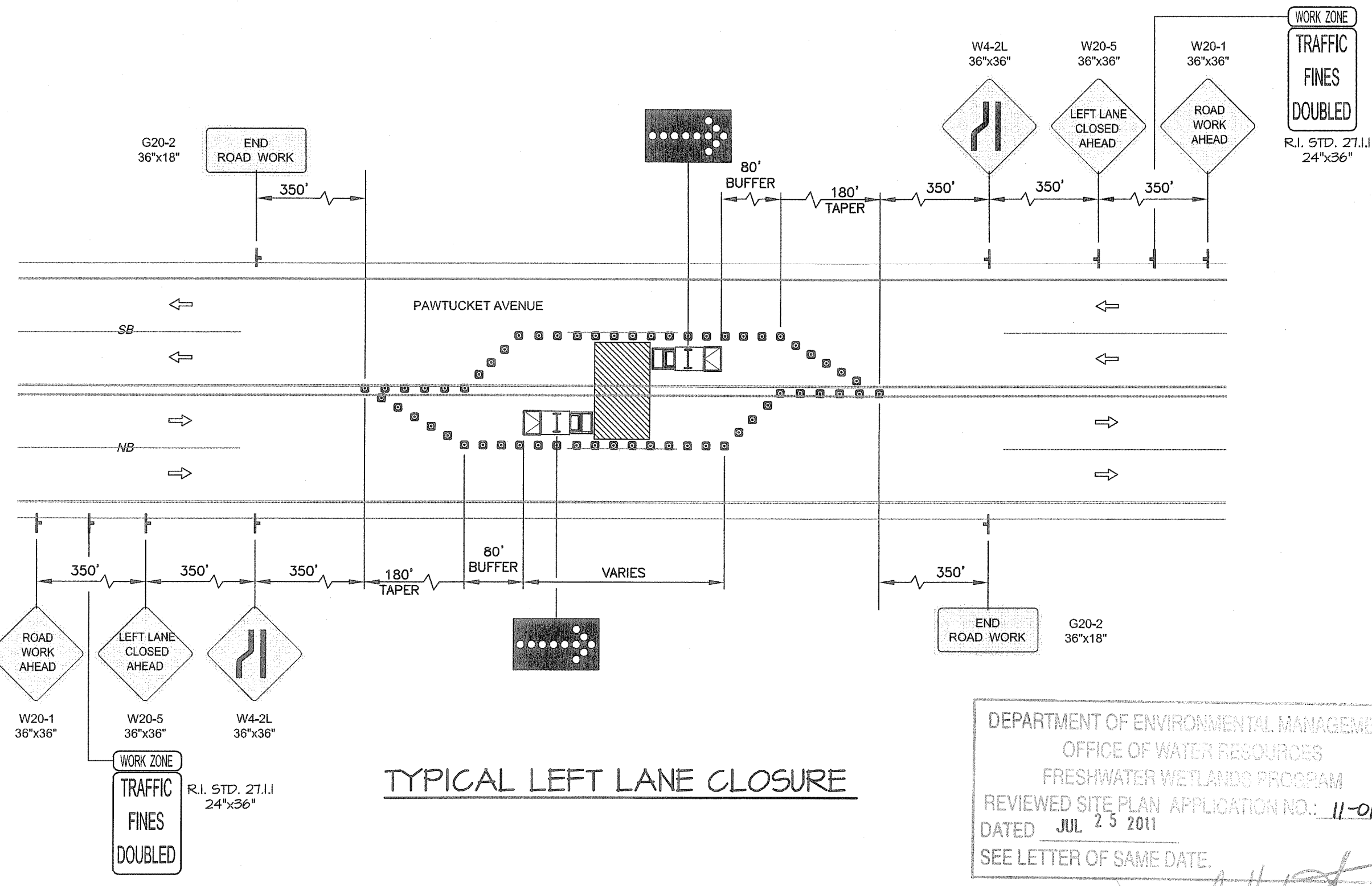
TYPICAL SIDEWALK DETOUR
 R 4-11 SIGNS SHOULD BE LOCATED AT A DETECTABLE AND ACCESSIBLE PEDESTRIAN FACILITY

- LEGEND**
- FLAG PERSON
 - FLUORESCENT TRAFFIC CONE R.I. STD. 26.1.0
 - PLASTIC PIPE BARRICADE R.I. STD. 26.3.0
 - DIRECTION OF TRAFFIC
 - TEMPORARY SIGN
 - WORK AREA
 - TRUCK W/ARROW AND ATTENUATOR



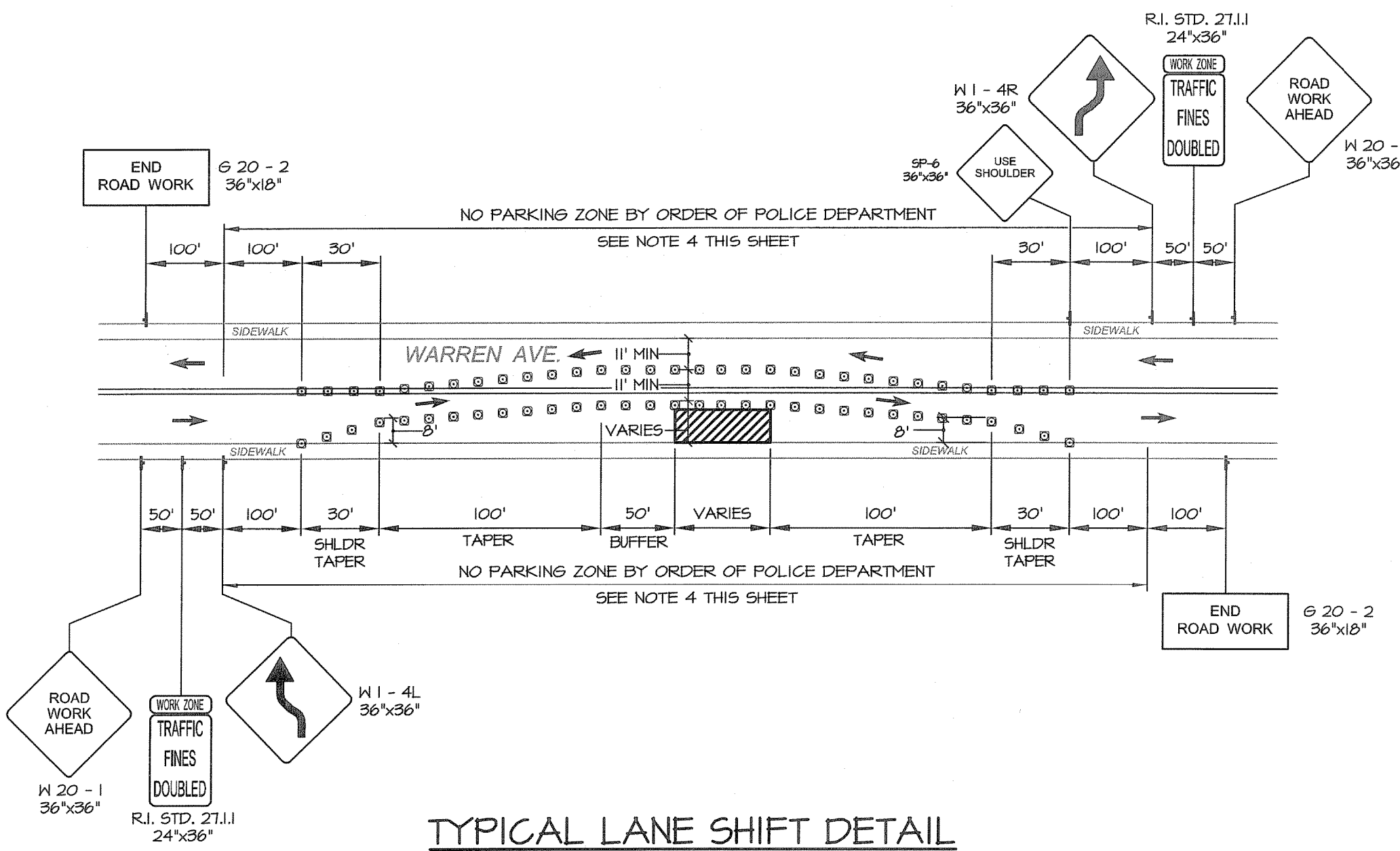
TYPICAL RIGHT LANE CLOSURE

NOTES:
 TRAFFIC CONTROL SET-UP FOR WORK OVER PAWTUCKET AVENUE NORTHBOUND RIGHT TRAVEL LANE WILL BE REVERSED FROM SET-UP SHOWN.

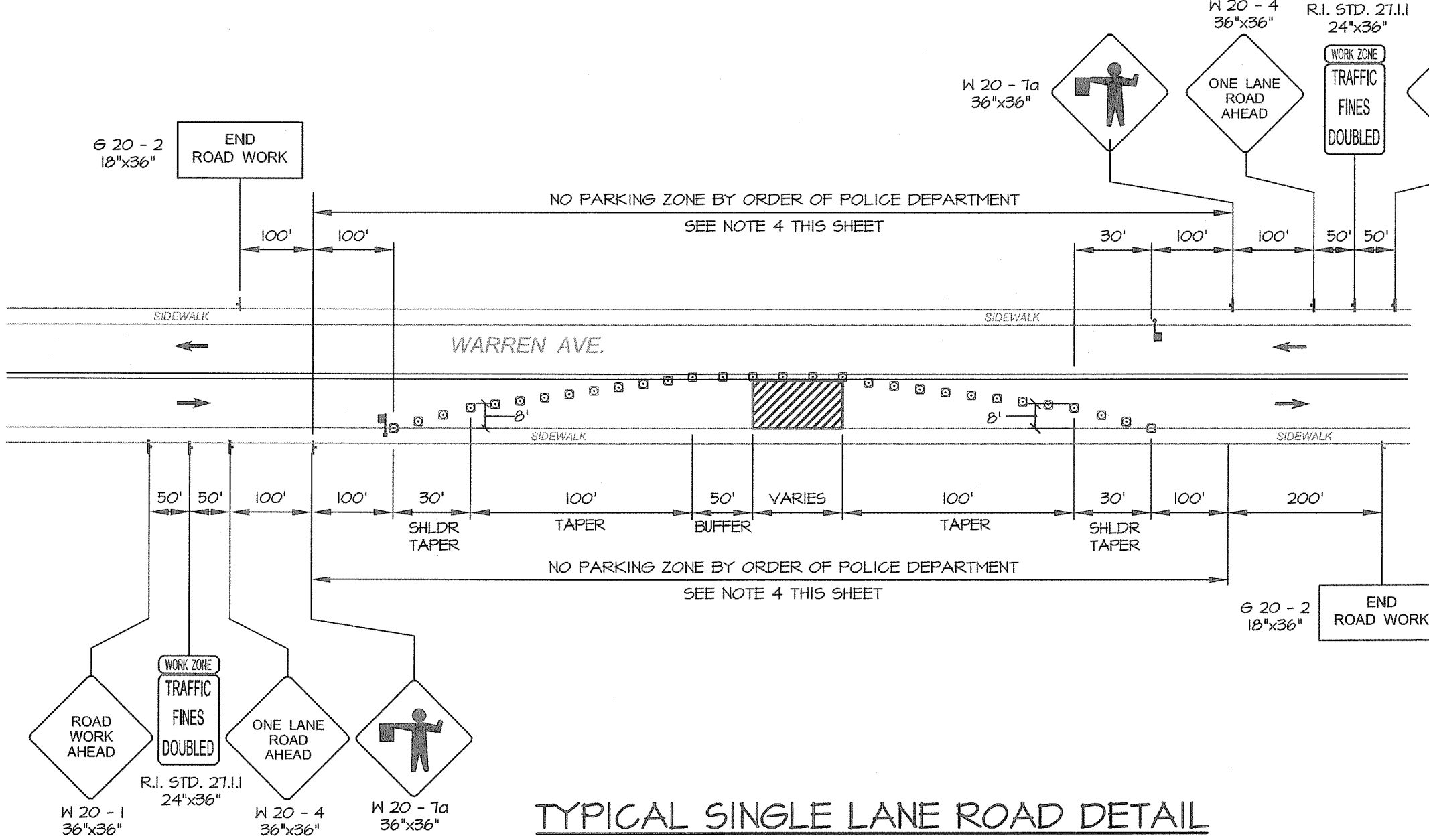


TYPICAL LEFT LANE CLOSURE

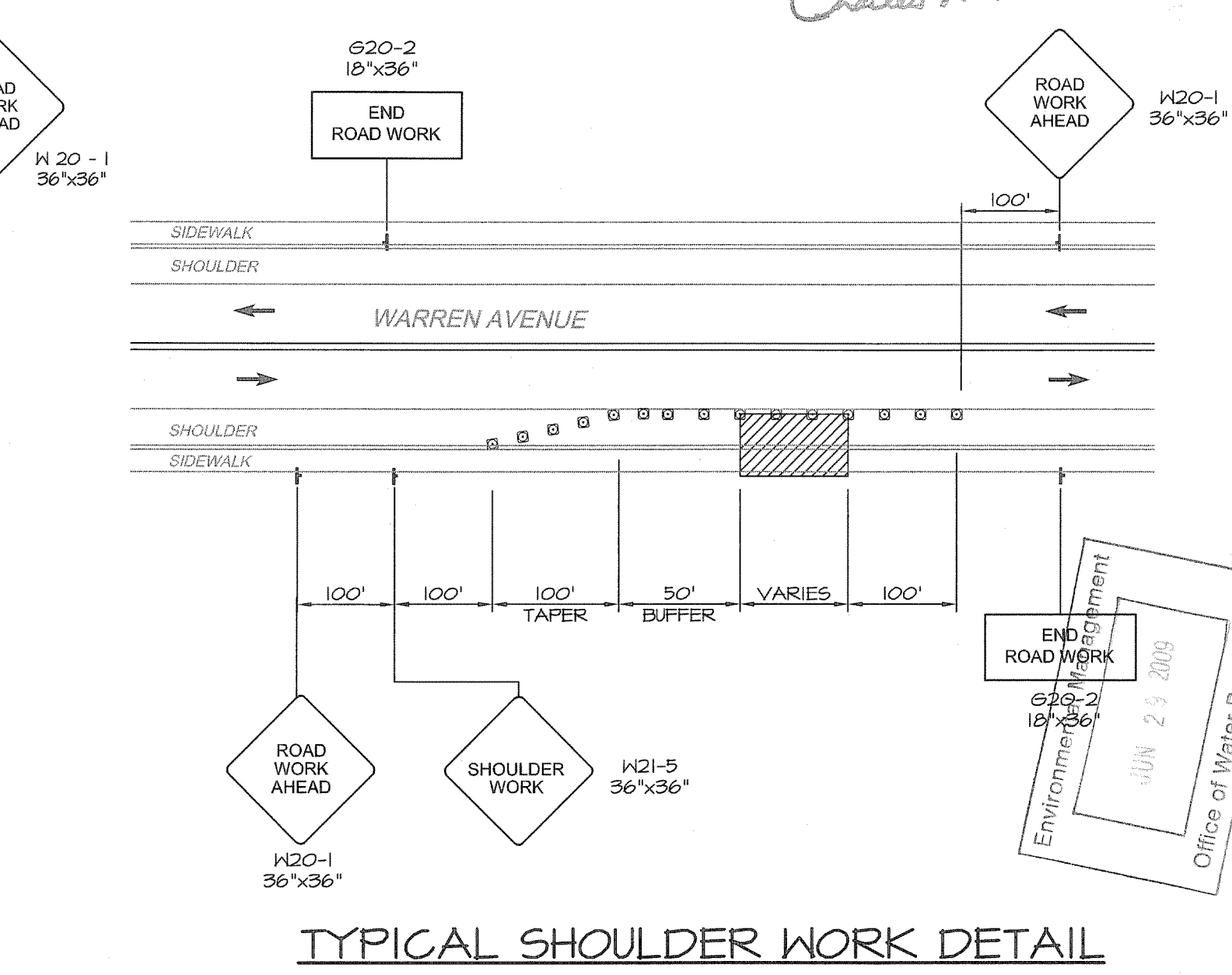
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-0111
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.
Charles A. Harbert



TYPICAL LANE SHIFT DETAIL



TYPICAL SINGLE LANE ROAD DETAIL



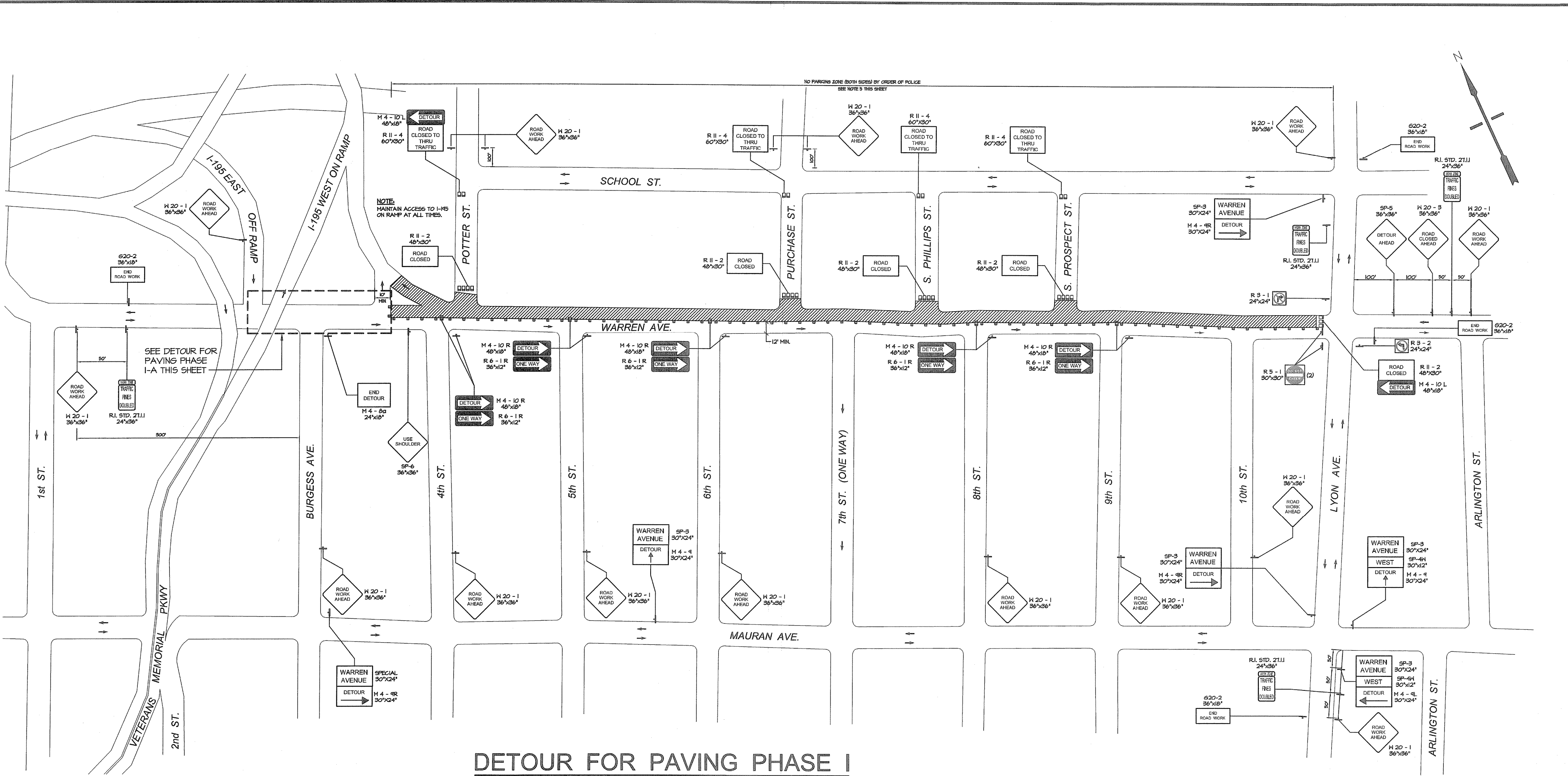
TYPICAL SHOULDER WORK DETAIL

WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRTS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND

REVISIONS:

NO.	DATE	DESCRIPTION

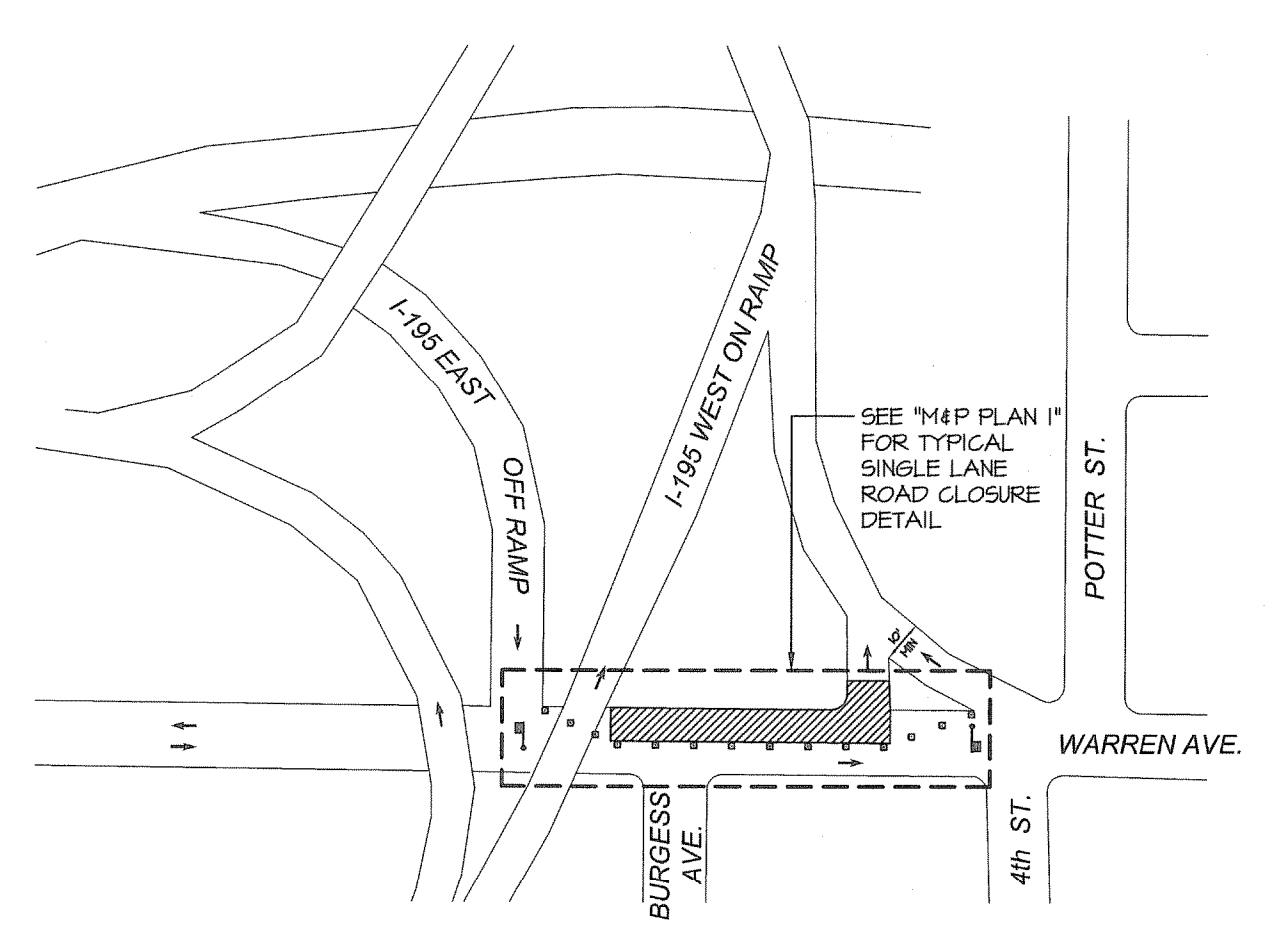
PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: N.T.S.
 DESIGNED BY: SL
 CHECKED BY: JPS
 DRAWN BY: AKD, JDB
 APPROVED BY: JPS
 DRAWING TITLE:
MAINTENANCE & PROTECTION OF PLAN 1



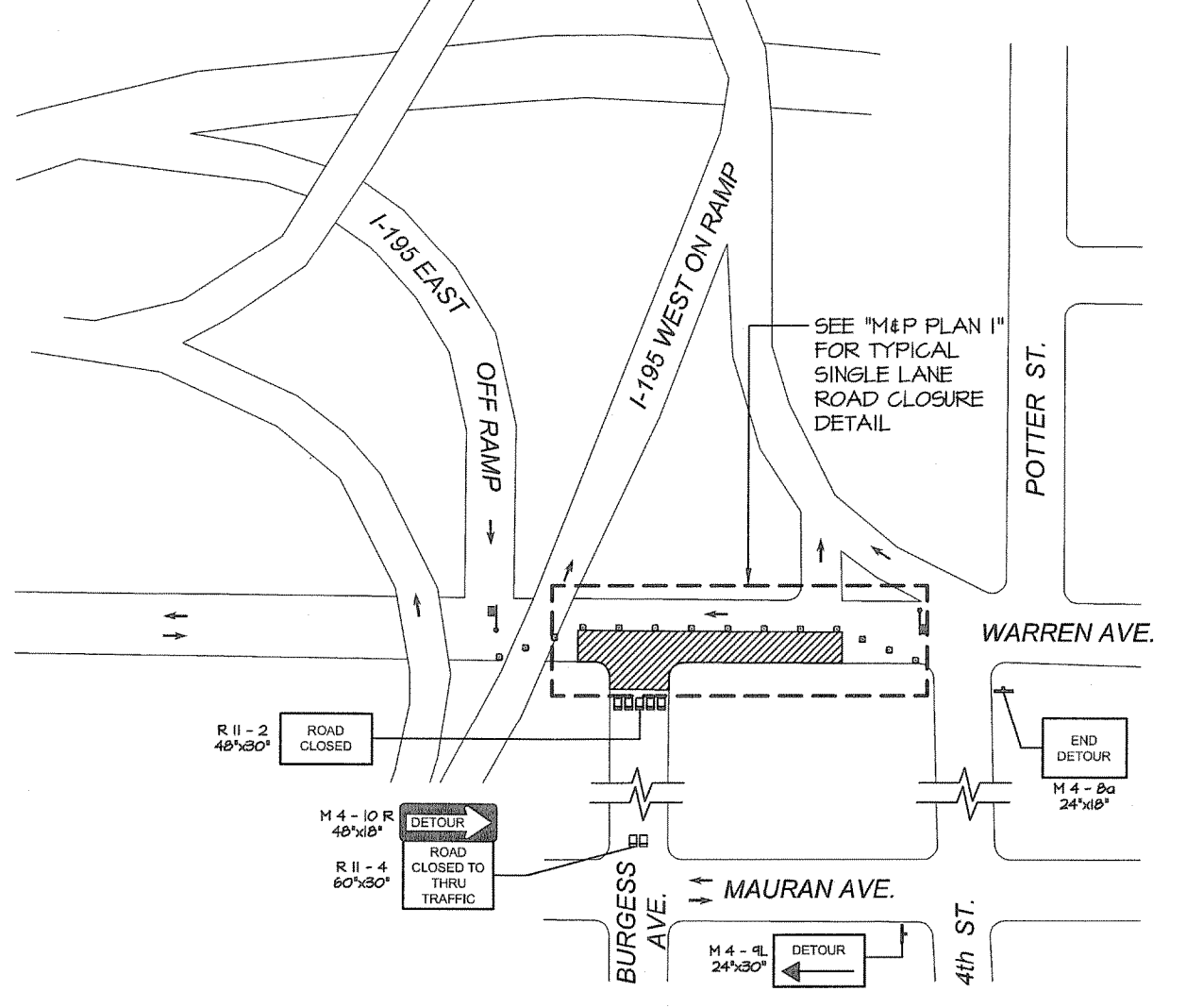
DETOUR FOR PAVING PHASE I



DETOUR FOR PAVING PHASE II



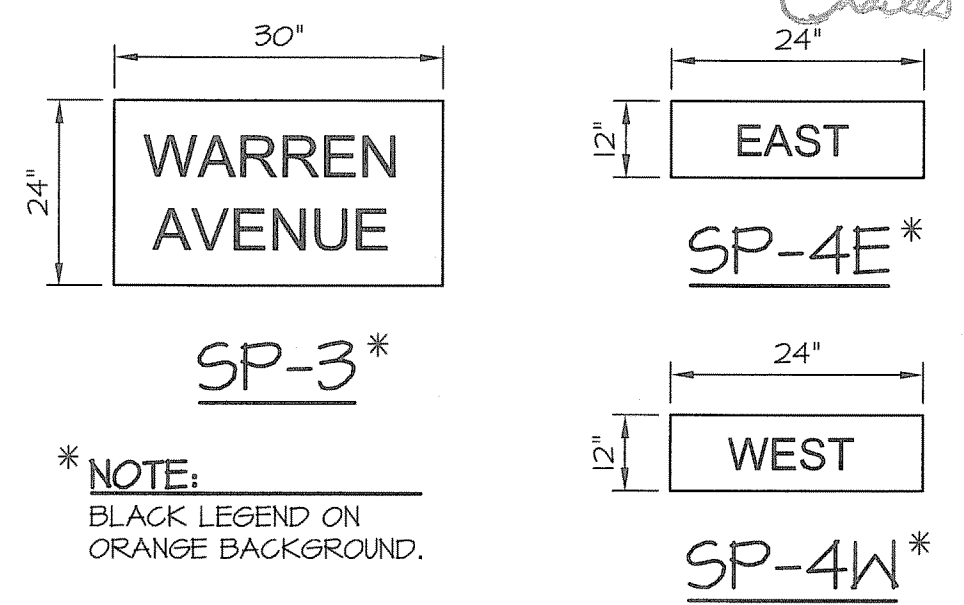
DETOUR FOR PAVING PHASE I-A



DETOUR FOR PAVING PHASE II-A

LEGEND

- FLAG PERSON
- FLUORESCENT TRAFFIC CONE R.I. STD. 61.0
- PLASTIC PIPE BARRICADE R.I. STD. 26.3.0
- DIRECTION OF TRAFFIC
- TEMPORARY SIGN
- WORK AREA



***NOTE:**
 BLACK LEGEND ON
 ORANGE BACKGROUND.

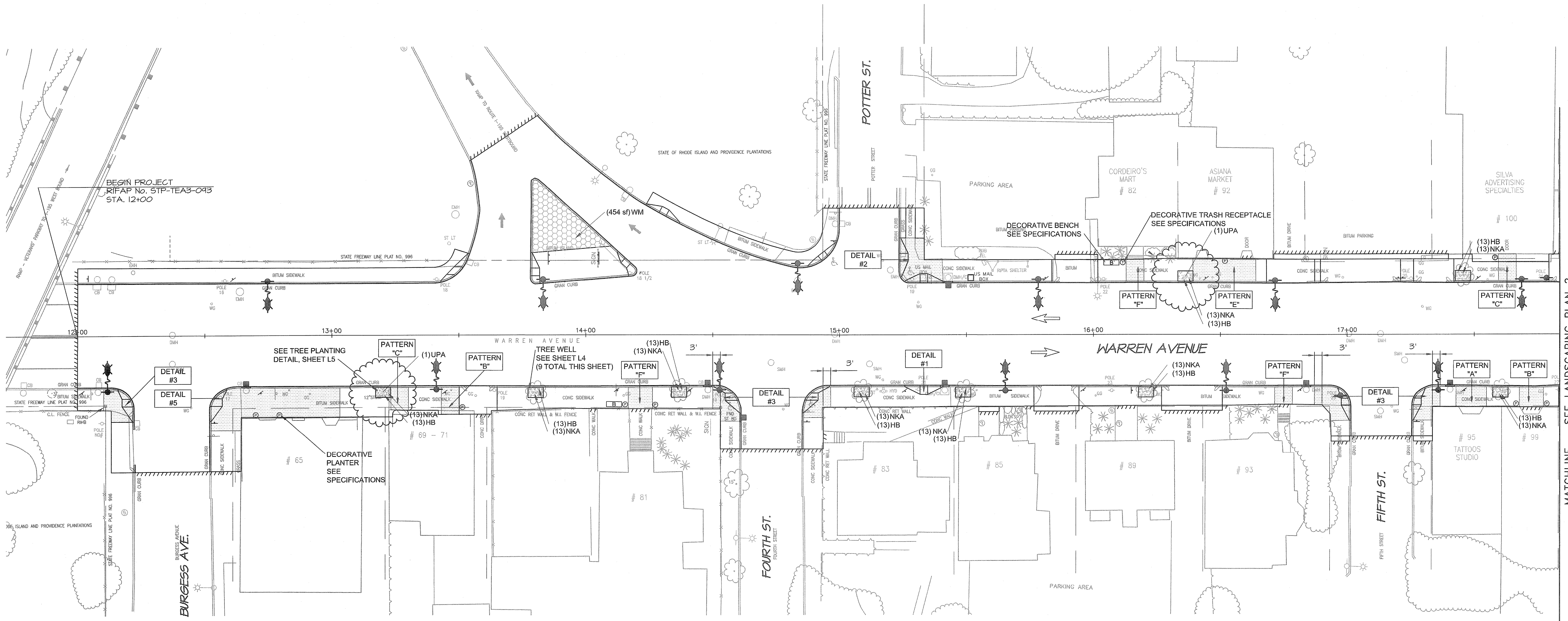
NOTES:

1. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION WITH ALL REVISIONS.
2. ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE WORK AREA SHALL BE MAINTAINED AT ALL TIMES.
3. ALL SIGNS SHALL BE ERRECTED FOR MAXIMUM VISIBILITY.
4. THE DETOUR SHALL BE IN PLACE PRIOR TO THE CLOSING OF THE WORK AREA.
5. TEMPORARY "NO PARKING" SIGNS WILL BE FURNISHED BY THE CITY OF EAST PROVIDENCE AND INSTALLED BY CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE CITY AND ALL SIGNS SHALL BE INSTALLED 24 HRS PRIOR TO COMMENCING THEIR WORK.
6. THE MAXIMUM SPACING BETWEEN THE FLUORESCENT TRAFFIC CONES FOR SETUPS ON WARREN AVENUE SHALL BE TWENTY FIVE (25) FEET. ALL CONES PLACED ON SIDE STREETS ALONG WARREN AVENUE SHALL BE SPACED NO MORE THAN TEN (10) FEET.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 11-0111
 DATED JULY 25 2011
 SEE LETTER OF SAME DATE.
Charles A. Hackett

Office of Water Resources
 Environmental Management
 JUL 23 2011

REVISIONS:	
PROJECT NO.:	03072.02
DATE:	DECEMBER 2009
SCALE:	N.T.S.
DESIGNED BY:	SL
CHECKED BY:	JH
DRAWN BY:	JDB
APPROVED BY:	JPS
DRAWING TITLE:	MAINTENANCE & PROTECTION OF TRAFFIC PLAN 2
DRAWING NO.:	C15
SHEET NO.	15 OF 23



PLANT SCHEDULE - THIS SHEET

DECIDUOUS TREES	CODE	QTY	BOTANICAL/COMMON	CONT	CAL
	UPA	2	Ulmus parvifolia 'Allee' / Upright Chinese Elm B & B		3" - 3 1/2" cal.

GROUND COVERS	CODE	QTY	BOTANICAL/COMMON	CONT
	HB	117	Hedera helix 'Baltica' / Baltic Ivy	4"pot@ 18" oc

PERENNIALS	CODE	QTY	BOTANICAL/COMMON	CONT
	NKA	117	Narcissus x 'King Alfred' / King Alfred Daffodil bulb@ 18" oc	

SOD/SEED	CODE	QTY	BOTANICAL/COMMON	CONT
	WM	454 sf	Wildflower Mix / Mixed Native Species (RIDOT M.18.10.8 Wildflower Seed Mix)	seed

LANDSCAPING LEGEND

- DECORATIVE BENCH (SEE SPECIFICATIONS)
- DECORATIVE PLANTER (SEE SPECIFICATIONS)
- DECORATIVE TRASH RECEPTACLE (SEE SPECIFICATIONS)

LANDSCAPE NOTES

1. ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY BY A RECOGNIZED GROWER OF PLANT MATERIAL IN ACCORDANCE WITH RI STANDARD SPECIFICATIONS. ALL PLANT MATERIAL MUST BE NURSERY GROWN AND NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
2. ALL PLANT MATERIAL SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATIONS MUST BE APPROVED IN ACCORDANCE WITH THE RI DOT STANDARD SPECIFICATIONS.
3. ALL PLANT MATERIAL IS TO BE FIELD LOCATED IN ACCORDANCE WITH RIDOT STANDARD SPECIFICATIONS.
4. ALL TREES AND SHRUBS WILL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH RIDOT STANDARD SPECIFICATIONS.
5. ALL TREES AND/OR SHRUBS PLANTED AS A BED SHALL BE MULCHED AS A BED.
6. PROVIDE A MINIMUM 6'-8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS.
7. ALL INSTALLED PLANT MATERIAL WILL CARRY A ONE YEAR GUARANTEE.

PLANT SCHEDULE - PROJECT WIDE

DECIDUOUS TREES	CODE	QTY	BOTANICAL/COMMON	CONT	CAL
	UPA	9	Ulmus parvifolia 'Allee' / Upright Chinese Elm B & B		3" - 3 1/2" cal.

SHRUBS	CODE	QTY	BOTANICAL/COMMON	CONT
	TMH	17	Taxus x media 'Hicksii' / Hicks Yew	B & B

GROUND COVERS	CODE	QTY	BOTANICAL/COMMON	CONT
	HB	494	Hedera helix 'Baltica' / Baltic Ivy	4"pot@ 18" oc

PERENNIALS	CODE	QTY	BOTANICAL/COMMON	CONT
	NKA	494	Narcissus x 'King Alfred' / King Alfred Daffodil bulb@ 18" oc	

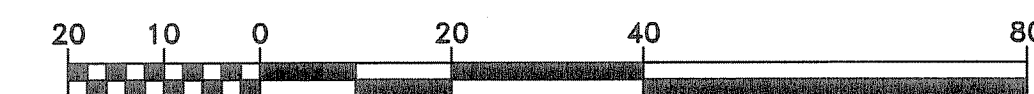
SOD/SEED	CODE	QTY	BOTANICAL/COMMON	CONT
	WM	454 sf	Wildflower Mix/Mixed Native Species (RIDOT M.18.10.8 Wildflower Seed Mix)	seed

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-0111
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.

Charles A. Herbert

Environmental Management
 July 25 2011
 Office of Water Resources

LANDSCAPE ARCHITECT:
DIANE C. SOULE & ASSOCIATES, ASLA
 LANDSCAPE ARCHITECTURE • GRAPHICS • DESIGN
 Smithfield, Rhode Island 401.231.0736 e-mail: diane@DCSA.ws
 www.dianesouleandassociates.com



MATCHLINE - SEE LANDSCAPING PLAN 2

WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRTS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND

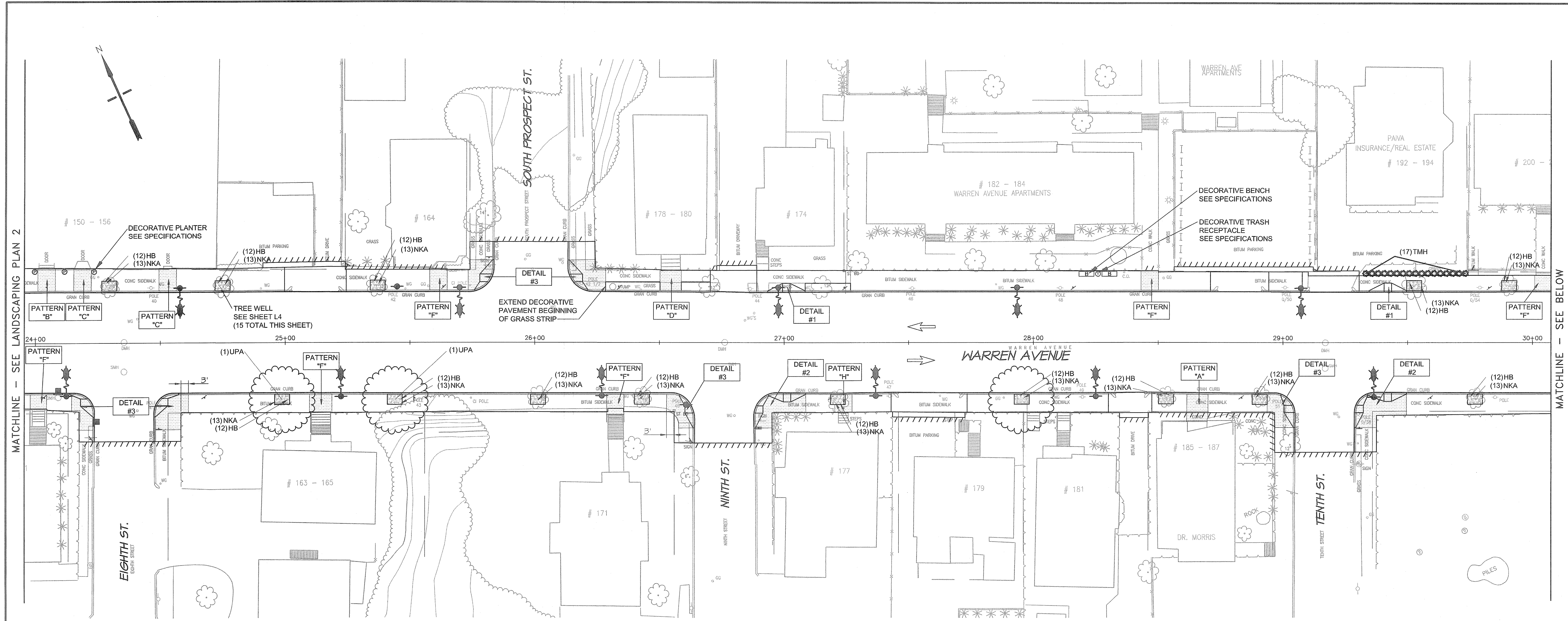
REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: DCS
 CHECKED BY: DCSA
 DRAWN BY: DCSA
 APPROVED BY: DCSA
 DRAWING TITLE:

LANDSCAPING
 PLAN 1

DRAWING NO.:
L1
 SHEET NO. 16 OF 23



MATCHLINE - SEE LANDSCAPING PLAN 2

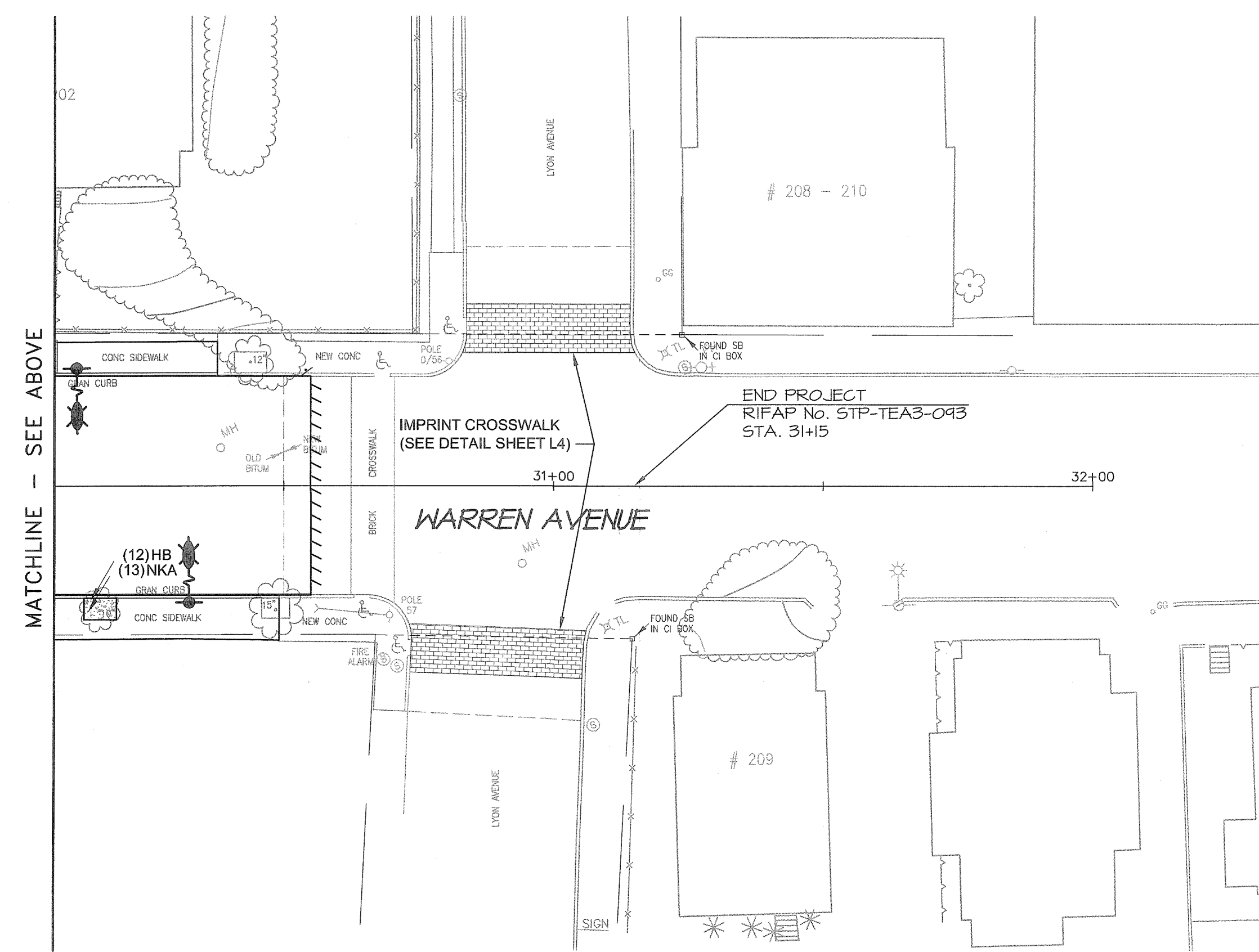
MATCHLINE - SEE BELOW

PLANT SCHEDULE - THIS SHEET

DECIDUOUS TREES	CODE	QTY	BOTANICAL/COMMON	CONT	CAL
	UPA	3	Ulmus parvifolia 'Allee' / Upright Chinese Elm	B & B	3" - 3 1/2" cal.
SHRUBS	CODE	QTY	BOTANICAL/COMMON	CONT	
	TMH	17	Taxus x media 'Hicksii' / Hicks Yew	B & B	
GROUND COVERS	CODE	QTY	BOTANICAL/COMMON	CONT	
	HB	195	Hedera helix 'Baltica' / Baltic Ivy	4" pot @ 18" oc	
PERENNIALS	CODE	QTY	BOTANICAL/COMMON	CONT	
	NKA	195	Narcissus x 'King Alfred' / King Alfred Daffodil	bulb @ 18" oc	

LANDSCAPING LEGEND

- DECORATIVE BENCH (SEE SPECIFICATIONS)
- DECORATIVE PLANTER (SEE SPECIFICATIONS)
- DECORATIVE TRASH RECEPTACLE (SEE SPECIFICATIONS)

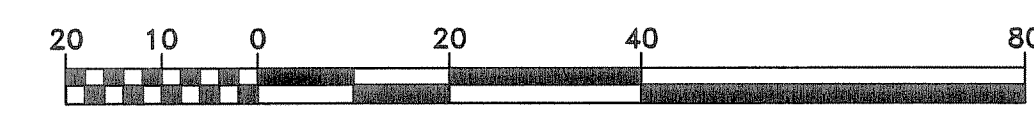


MATCHLINE - SEE ABOVE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-011
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE
Charles A. Haber

Environmental Management
 JUN 2 2011
 Office of Water Resources

LANDSCAPE ARCHITECT:
DIANE C. SOULE & ASSOCIATES, ASLA
 LANDSCAPE ARCHITECTURE • GRAPHICS • DESIGN
 Smithfield, Rhode Island 401.231.0736 e-mail: diane@DCSA.ws
 www.dianesouleandassociates.com



WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRIS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND

REVISIONS:

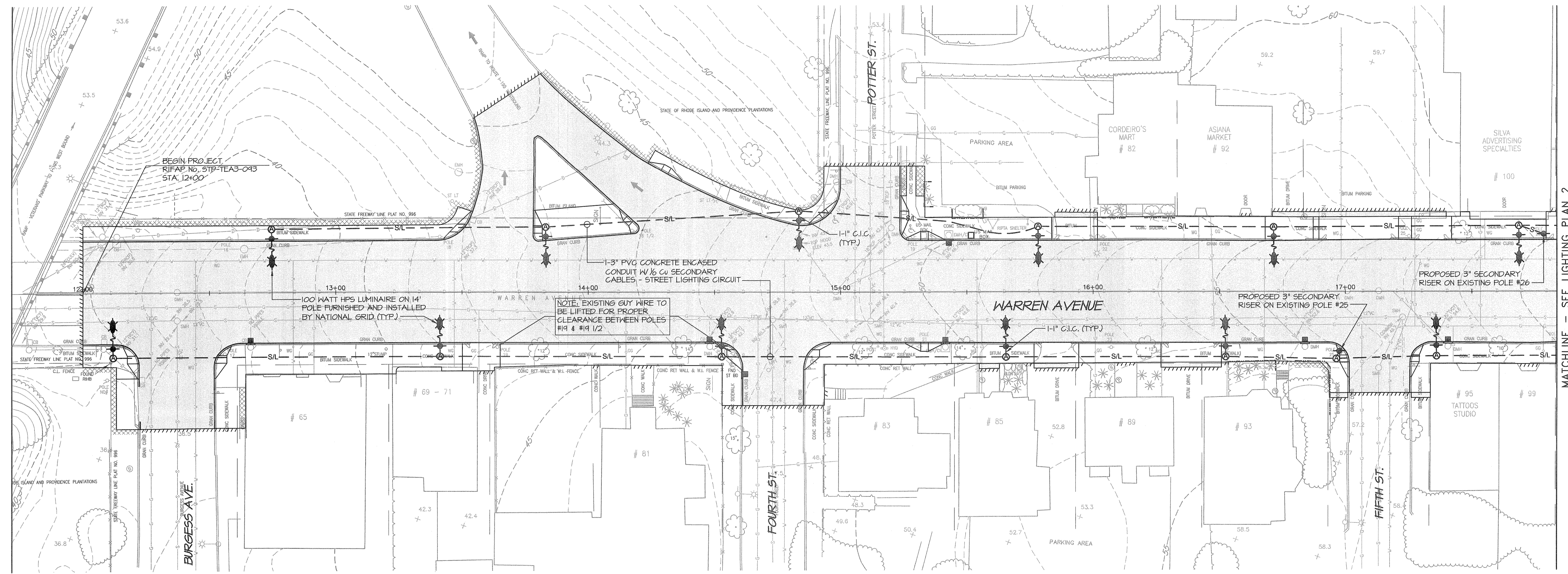
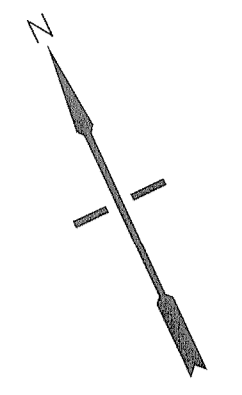
NO.	DATE	DESCRIPTION

PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: DCS
 CHECKED BY: DCSA
 DRAWN BY: DCSA
 APPROVED BY: DCSA
 DRAWING TITLE:

LANDSCAPING
 PLAN 3

DRAWING NO.:
L3
 SHEET NO. 18 OF 23

WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRTS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND



MATCHLINE - SEE LIGHTING PLAN 2

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 11-0111
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.

NOTES:

1. ALL LIGHTING EQUIPMENT FURNISHED AND INSTALLED BY CONTRACTOR SHALL BE IN ACCORDANCE WITH NATIONAL GRID PLANS AND SPECIFICATIONS.
2. SEQUENCE OF CONSTRUCTION SHALL BE COORDINATED WITH NATIONAL GRID.
3. SEE CONTRACT SPECIFICATIONS, ITEM T01.9901 FOR DETAILED DESCRIPTION OF WORK BY CONTRACTOR AND NATIONAL GRID.
4. IF THERE IS ANY CONFLICT BETWEEN THESE PLANS AND THE NATIONAL GRID PLANS, THE NATIONAL GRID PLANS WILL GOVERN.

LEGEND:

- EXISTING UTILITY WOOD POLE
- PROPOSED RISER POLE (NOTE: EXISTING WOOD POLE W/SECONDARY SYSTEM) (BY CONTRACTOR)
- ⊙ EXISTING STREET LIGHT
- ⊙ PROPOSED STREET LIGHT (BY NATIONAL GRID) ON LIGHT POLE FOUNDATION (BY CONTRACTOR)
- ⊙ PRECAST LIGHT DUTY HANDHOLE (NATIONAL GRID STD 3826) W/FRAME, RING, AND COVER (BY CONTRACTOR)
- - - S/L - - SECONDARY CABLE (BY NATIONAL GRID) IN 3" PVC CONCRETE ENCASED CONDUIT (BY CONTRACTOR)
- S — STREET LIGHT CABLE (BY NATIONAL GRID) IN CONDUIT (CIC) (BY CONTRACTOR) BETWEEN NEW STREET LIGHT AND HANDHOLE "A"



REVISIONS:

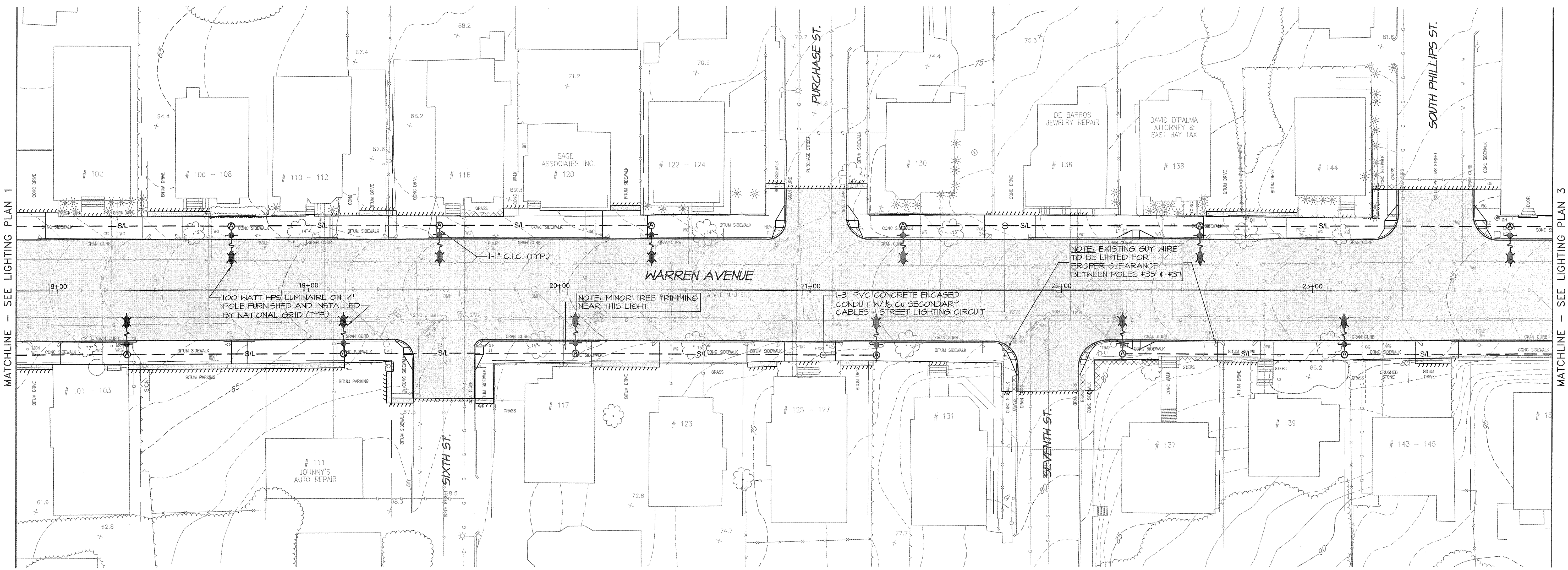
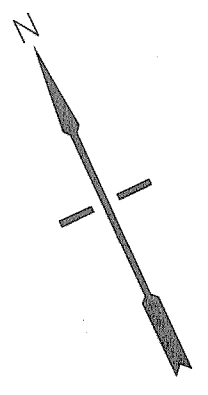
NO.	DESCRIPTION

PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: TF
 CHECKED BY: JH
 DRAWN BY: AKD
 APPROVED BY: APF
 DRAWING TITLE:

DECORATIVE LIGHTING PLAN 1

DRAWING NO.: D1
 SHEET NO. 21 OF 23

WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRIS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 EAST PROVIDENCE
 RHODE ISLAND



MATCHLINE - SEE LIGHTING PLAN 1

MATCHLINE - SEE LIGHTING PLAN 3

NOTE: EXISTING GUY WIRE
 TO BE LIFTED FOR
 PROPER CLEARANCE
 BETWEEN POLES #35 & #37

NOTE: MINOR TREE TRIMMING
 NEAR THIS LIGHT

1-3" PVC CONCRETE ENCASED
 CONDUIT W/ 1/2 Cu SECONDARY
 CABLES - STREET LIGHTING CIRCUIT

100 WATT HPS LUMINAIRE ON 14'
 POLE FURNISHED AND INSTALLED
 BY NATIONAL GRID (TYP.)

SIXTH ST.

SEVENTH ST.

SOUTH PHILLIPS ST.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-011
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.
Charles A. Hallett

NOTES:

- ALL LIGHTING EQUIPMENT FURNISHED AND INSTALLED BY CONTRACTOR SHALL BE IN ACCORDANCE WITH NATIONAL GRID PLANS AND SPECIFICATIONS.
- SEQUENCE OF CONSTRUCTION SHALL BE COORDINATED WITH NATIONAL GRID.
- SEE CONTRACT SPECIFICATIONS, ITEM 101.9901 FOR DETAILED DESCRIPTION OF WORK BY CONTRACTOR AND NATIONAL GRID.
- IF THERE IS ANY CONFLICT BETWEEN THESE PLANS AND THE NATIONAL GRID PLANS, THE NATIONAL GRID PLANS WILL GOVERN.

LEGEND:

- EXISTING UTILITY WOOD POLE
- PROPOSED RISER POLE (NOTE: EXISTING WOOD POLE W/ SECONDARY SYSTEM) (BY CONTRACTOR)
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT (BY NATIONAL GRID) ON LIGHT POLE FOUNDATION (BY CONTRACTOR)
- PRECAST LIGHT DUTY HANDHOLE (NATIONAL GRID) 3326) W/FRAME, RING, AND COVER (BY CONTRACTOR)
- SECONDARY CABLE (BY NATIONAL GRID) IN 3" PVC CONCRETE ENCASED CONDUIT (BY CONTRACTOR)
- STREET LIGHT CABLE (BY NATIONAL GRID) IN CONDUIT (C/C) (BY CONTRACTOR) BETWEEN NEW STREET LIGHT AND HANDHOLE "A"



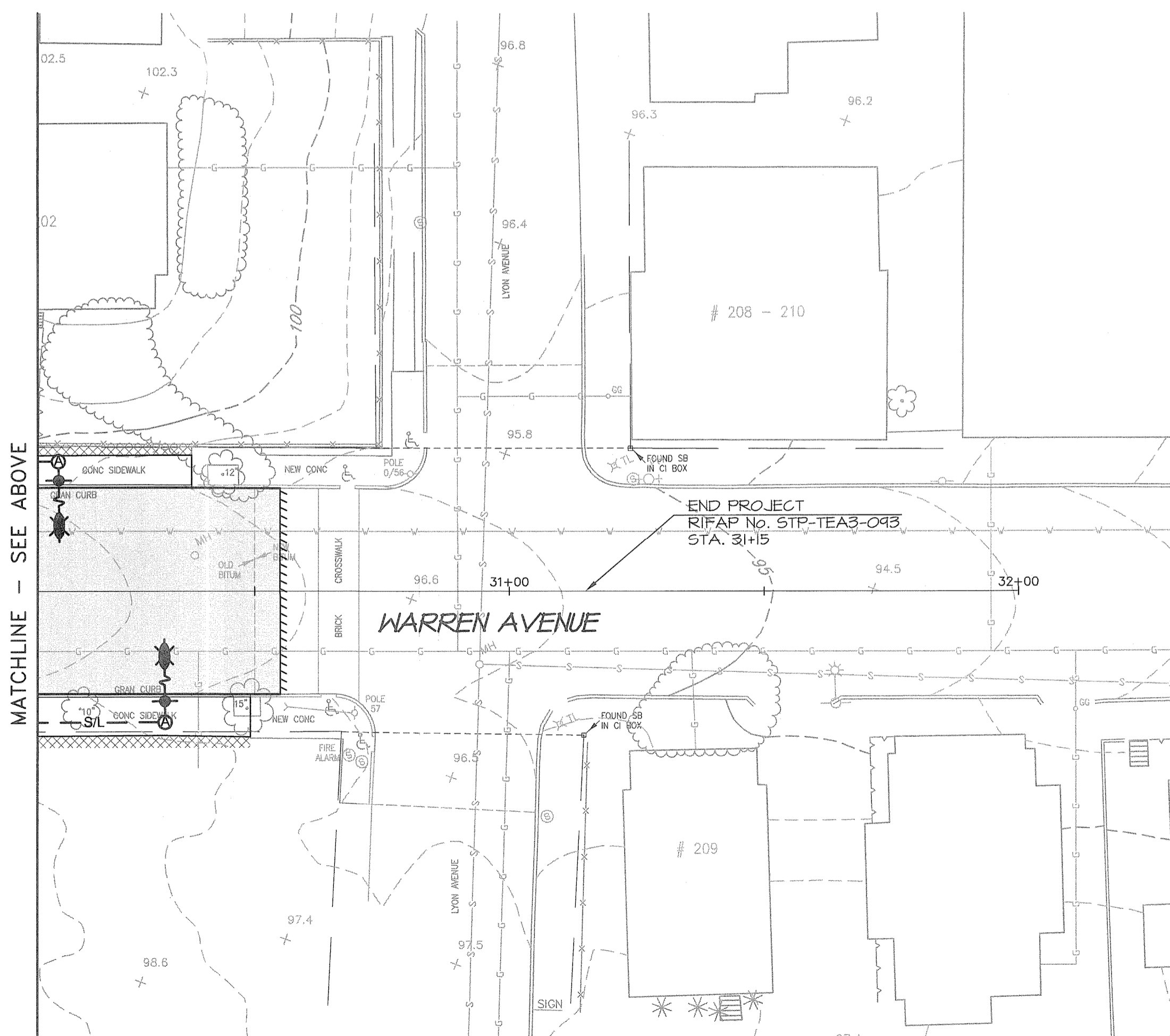
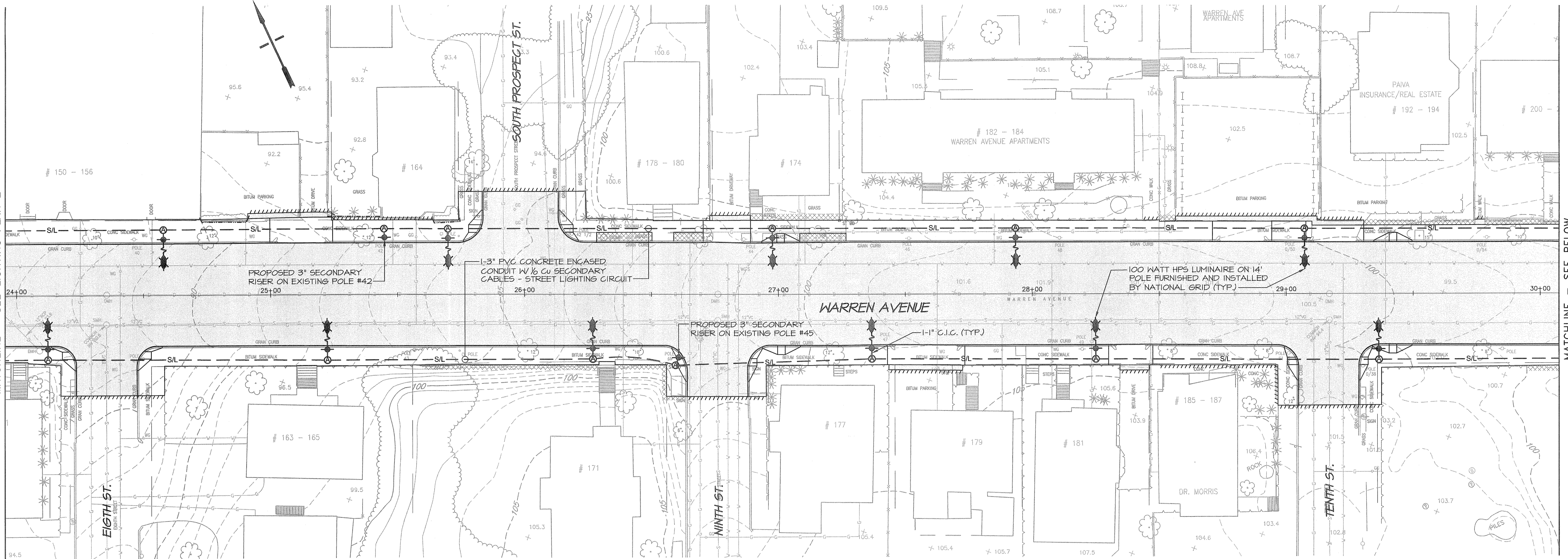
REVISIONS:

NO.	DESCRIPTION

PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: TF
 CHECKED BY: JH
 DRAWN BY: AKD
 APPROVED BY: APF
 DRAWING TITLE:
 DECORATIVE LIGHTING PLAN 2
 DRAWING NO.:
D2
 SHEET NO. 22 OF 23

MATCHLINE - SEE LIGHTING PLAN 2

MATCHLINE - SEE BELOW



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 11-011
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.
Charles A. Hubert

NOTES:

1. ALL LIGHTING EQUIPMENT FURNISHED AND INSTALLED BY CONTRACTOR SHALL BE IN ACCORDANCE WITH NATIONAL GRID PLANS AND SPECIFICATIONS.
2. SEQUENCE OF CONSTRUCTION SHALL BE COORDINATED WITH NATIONAL GRID.
3. SEE CONTRACT SPECIFICATIONS, ITEM 101.9901 FOR DETAILED DESCRIPTION OF WORK BY CONTRACTOR AND NATIONAL GRID.
4. IF THERE IS ANY CONFLICT BETWEEN THESE PLANS AND THE NATIONAL GRID PLANS, THE NATIONAL GRID PLANS WILL GOVERN.

LEGEND:

- EXISTING UTILITY WOOD POLE
- - - PROPOSED RISER POLE (NOTE: EXISTING WOOD POLE W/SECONDARY SYSTEM) (BY CONTRACTOR)
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT (BY NATIONAL GRID) ON LIGHT POLE FOUNDATION (BY CONTRACTOR)
- PRECAST LIGHT DUTY HANDHOLE (NATIONAL GRID STD 3326) W/FRAME, RING, AND COVER (BY CONTRACTOR)
- -SIL- - SECONDARY CABLE (BY NATIONAL GRID) IN 3" P.V.C. CONCRETE ENCASED CONDUIT (BY CONTRACTOR)
- S- STREET LIGHT CABLE (BY NATIONAL GRID) IN CONDUIT (C.I.C. (BY CONTRACTOR) BETWEEN NEW STREET LIGHT AND HANDHOLE "A"



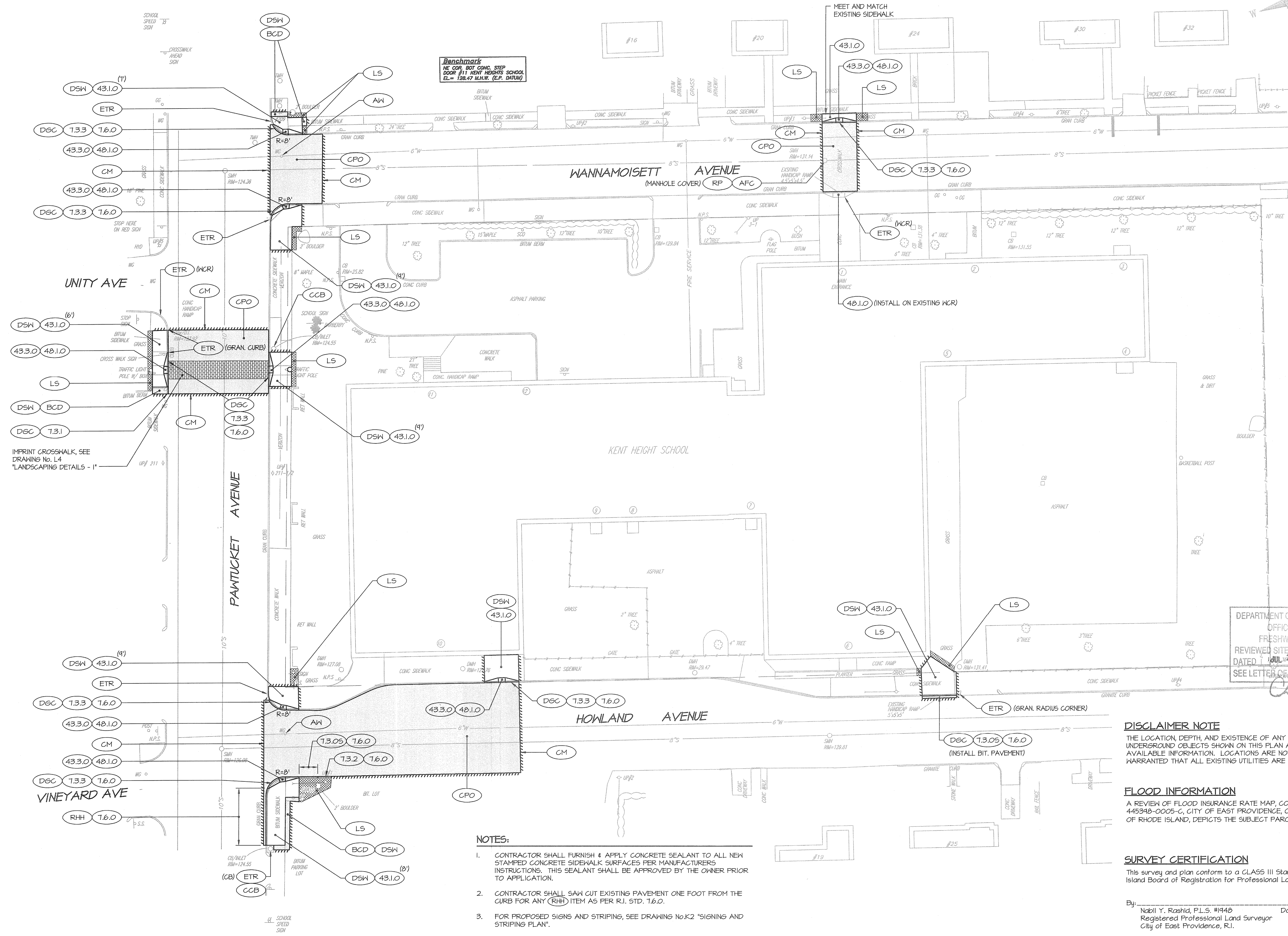
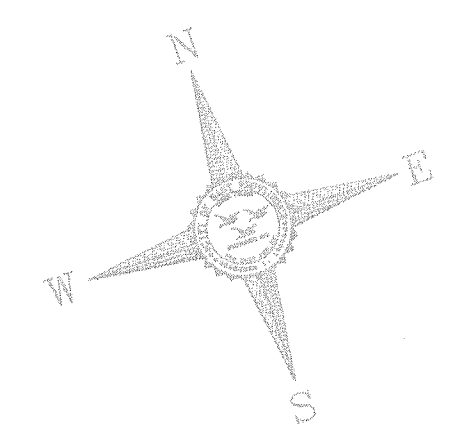
REVISIONS:

NO.	DESCRIPTION

PROJECT NO.: 03072.02
 DATE: DECEMBER 2009
 SCALE: 1"=20'
 DESIGNED BY: TF
 CHECKED BY: JH
 DRAWN BY: AKD
 APPROVED BY: APF
 DRAWING TITLE:

DECORATIVE LIGHTING PLAN 3

DRAWING NO.: **D3**
 SHEET NO. 23 OF 23



Benchmark
 NE COR. BOY CONG. STEP
 CORNER #11 KENT HEIGHTS SCHOOL
 EL. = 128.47 M.H.W. (E.P. DATUM)

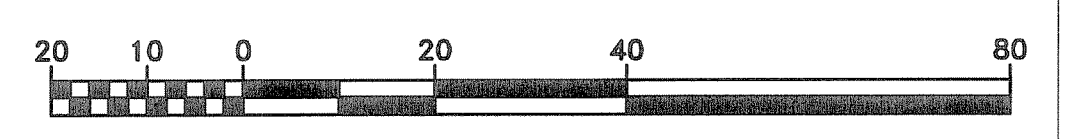
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-011
 DATED: JUL 28 2011
 SEE LETTER OF SAME DATE.
Charles A. Harte

DISCLAIMER NOTE
 THE LOCATION, DEPTH, AND EXISTENCE OF ANY UTILITIES OR OTHER UNDERGROUND OBJECTS SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. LOCATIONS ARE NOT WARRANTED TO BE EXACT, NOR WARRANTED THAT ALL EXISTING UTILITIES ARE SHOWN.

FLOOD INFORMATION
 A REVIEW OF FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 44598-0005-C, CITY OF EAST PROVIDENCE, COUNTY OF PROVIDENCE, STATE OF RHODE ISLAND, DEPICTS THE SUBJECT PARCEL(S) TO LIE WITHIN ZONE "C".

SURVEY CERTIFICATION
 This survey and plan conform to a CLASS III Standard as adopted by the Rhode Island Board of Registration for Professional Land Surveyors.
 By: *Nabil Y. Rashid, P.L.S. #1948* Date: _____
 Registered Professional Land Surveyor
 City of East Providence, R.I.

- NOTES:**
- CONTRACTOR SHALL FURNISH & APPLY CONCRETE SEALANT TO ALL NEW STAMPED CONCRETE SIDEWALK SURFACES PER MANUFACTURERS INSTRUCTIONS. THIS SEALANT SHALL BE APPROVED BY THE OWNER PRIOR TO APPLICATION.
 - CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT ONE FOOT FROM THE CURB FOR ANY (RHH) ITEM AS PER R.I. STD. 1.6.0.
 - FOR PROPOSED SIGNS AND STRIPING, SEE DRAWING No.K2 "SIGNING AND STRIPING PLAN".
 - FOR TRAFFIC CONTROL SET-UP SEE DRAWING No. C14 "MAINTENANCE & PROTECTION OF TRAFFIC PLAN 1"



WARREN AVENUE/BROADWAY CORRIDOR
 REVITALIZATION PROJECT PHASE 2
 AND KENT HEIGHTS ELEMENTARY SCHOOL, SRTS
 CITY OF EAST PROVIDENCE DEPARTMENT OF PLANNING
 RHODE ISLAND
 EAST PROVIDENCE

PROJECT NO.:	10209.09
DATE:	APRIL 2011
SCALE:	1"=20'
DESIGNED BY:	SL
CHECKED BY:	CA
DRAWN BY:	RB
APPROVED BY:	JPS
DRAWING TITLE:	GENERAL PLAN
DRAWING NO.:	K1
SHEET NO.:	1 OF 2

nationalgrid

-- UNDERGROUND COMMERCIAL DISTRIBUTION --

WARREN AVENUE / BROADWAY CORRIDOR

REVITALIZATION PROJECT - PHASE I - POLES 64, 65 & 80, 81

WARREN AVENUE (LYON AVENUE TO BROADWAY) - EAST PROVIDENCE, R.I.

-- CONSTRUCTION PACKAGE --

GENERAL NOTES

- A. THE DEVELOPER SHALL ADHERE TO THE CONSTRUCTION PLAN SPECIFYING TRENCH LOCATIONS AND DEPTHS, WITH ANY DEVIATION BEING SUBJECT TO APPROVAL BY THE NARRAGANSETT ELECTRIC COMPANY, HEREIN AFTER REFERRED TO AS THE "COMPANY".
- B. MINIMUM BURIAL DEPTHS SPECIFIED FOR ALL ELECTRIC CONDUIT SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. TEMPORARY MECHANICAL PROTECTION OVER BURIED CONDUIT DURING CONSTRUCTION TO PREVENT CONDUIT CRUSHING OR DAMAGE DUE TO UNUSUALLY HEAVY CONSTRUCTION EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.
- C. TRENCH DETAIL SHOWN IN ATTACHED COMPANY STANDARDS SHALL BE ADHERED TO. THE TRENCH BOTTOM SHALL BE SOLID, UNDISTURBED EARTH. EARTH SHOWING SIGNS OF PEAT, CINDERS, RUBBLE OR ANY CONDITIONS NOT SUITABLE FOR A STABLE FOUNDATION SHALL BE REPORTED TO THE COMPANY INSPECTOR FOR RECOMMENDATION. POCKETS OF UNSUITABLE SOIL SHALL BE REPLACED WITH COMPACTED SAND.
- D. THE COMPANY'S REPRESENTATIVE SHALL BE NOTIFIED IN ADVANCE OF THE BACKFILLING OF ANY ELECTRIC FACILITY, I.E. CONDUIT, TRANSFORMER FOUNDATION, SWITCH OR FUSE MODULE FOUNDATION, HANDHOLE, PULL-BOX, STREETLIGHT FOUNDATION, CABLE IN CONDUIT, GROUNDING, ETC. THE COMPANY RESERVES THE RIGHT TO REQUIRE RE-EXCAVATION OF THE FACILITY IF THE DEVELOPER FAILS TO PROVIDE PRIOR NOTIFICATION.
- E. A DESIGNATED COMPANY REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE INSPECTION OF THE CONDUIT SYSTEM BEING PREPARED AND INSTALLED BY THE DEVELOPER AT VARIOUS STAGES OF INSTALLATION. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - * ALL TRENCHES AND EXCAVATIONS.
 - * ALL BACKFILL AND BASE SAND MATERIAL DURING OR AFTER INSTALLATION AS APPLICABLE.
 - * ALL TRANSFORMER FOUNDATIONS, SWITCH/FUSE MODULE FOUNDATIONS, CABLE PULL-BOXES, HANDHOLES, STREETLIGHT FOUNDATIONS, AND OTHER FACILITIES, AFTER SETTING IN PLACE, BUT PRIOR TO BACKFILLING.
 - * ALL RISER CONDUIT INSTALLATIONS, ALL CONDUIT, CONDUIT RUNS, INCLUDING CEMENTED JOINTS, BENDS, SWEEPS, BELL-ENDS AND CONDUIT SPACERS, PRIOR TO BACKFILLING, OR CONCRETE ENCASEMENT.
 - * ALL CONDUIT TERMINATIONS AND SUPPORTS AT TRANSFORMER FOUNDATION, PULL-BOXES, HANDHOLES, SWITCH/FUSE MODULE FOUNDATIONS, RISER POLES, STREETLIGHT FOUNDATIONS, AND AT OTHER APPLICABLE LOCATIONS.
 - * THE POURING OF ANY REQUIRED CONCRETE ENCASEMENT AND SUBSEQUENT BACKFILLING AROUND THE CONDUIT RUNS.
 - * ALL BACKFILLING OPERATIONS.
- F. PLASTIC SPACERS SHALL BE USED TO SEPARATE ALL DUCT WHERE MORE THAN ONE DUCT IS INSTALLED. SPACERS SHALL NOT EXCEED EIGHT FOOT INTERVALS. SPACERS SHALL BE PLACED AT EACH COUPLING. SPACERS ARE REQUIRED TO MAINTAIN PROPER SEPARATION FROM ADJACENT CONDUITS AND TO AID IN PROPER SAND PLACEMENT FOR THERMAL REASONS.
- G. WATER, GAS, SEWER: TWELVE INCHES OF EITHER CONCRETE ENCASEMENT OR WELL-TAMPED EARTH WHERE THE PATHS OF THESE UTILITIES INTERSECT ELECTRICAL CONDUITS AT APPROXIMATELY RIGHT ANGLES. A MINIMUM SEPARATION OF TWENTY-FOUR INCHES SHALL BE MAINTAINED BETWEEN PARALLEL PLACEMENT OF ANY OF THESE UTILITIES AND ELECTRICAL CONDUITS.
- H. WHERE FOREIGN OBJECTS THREATEN TO INTERFERE WITH THE INSTALLATION OF CONDUIT IN THE SIDEWALK AREA OR OTHER AREAS, THE COMPANY MAY REQUIRE CONCRETE ENCASEMENT OF THE CONDUIT.
- I. ALL FOUNDATIONS SHALL BE LEVEL AND INSTALLED IN ACCORDANCE WITH STANDARD 5061. THE AREA AROUND THE OUTSIDE OF THE FOUNDATION MUST BE LEVEL FOR AT LEAST TWO FEET FROM THE EDGE OF THE FOUNDATION ON ALL SIDES.
- J. RETAINING WALLS OR OTHER DEVICES SHALL BE INSTALLED WHERE SLOPES EXIST THAT WOULD UNDERMINE OR COVER EQUIPMENT, SUCH AS TRANSFORMERS DUE TO SHARP DROP-OFF OR RISE.

NOTE: IN MOST INSTANCES, THE COMPANY SHALL REQUIRE THAT EQUIPMENT EASEMENTS ON PRIVATE PROPERTY BE REASONABLY LEVEL. ALSO, ALL RETAINING WALLS SHALL FALL OUTSIDE OF EQUIPMENT EASEMENTS AND IN NO CASE SHALL THEY HAMPER DOOR OPENINGS OR PLACEMENT OF SUCH EQUIPMENT. RETAINING WALL DESIGN SHALL BE APPROVED BY THE COMPANY.
- K. TRANSFORMER FOUNDATIONS SHALL BE COMPLETELY BACKFILLED PRIOR TO COMMENCEMENT OF CABLE PULLING.
- L. HANDHOLES SHALL ONLY BE PLACED WITHIN PRIVATE PROPERTY EQUIPMENT EASEMENTS. THEY SHALL NOT BE PLACED WITHIN THE SIDEWALK AREA OR WITHIN THE TRAVELLED WAY.
- M. DIRECT BURIED SERVICES (CONDUIT PREFERRED) SHALL ENTER SECONDARY HANDHOLE WALLS BY UTILIZING EXISTING CONDUIT KNOCKOUTS AND INSTALLATION OF THE SHORT SECTION (2 FT.) OF 3" CONDUIT. SUITABLE SAND COVER SHALL SURROUND DIRECT BURIED SERVICE CABLES. SERVICES SHALL NOT BE INSTALLED UNDER BOTTOM EDGE OF HANDHOLE.
- N. PRIMARY CABLE PULL/SPICE BOXES ARE DESIGNED FOR INSTALLATION WITHIN THE SIDEWALK AREA BETWEEN THE CURB AND FRONT LOT LINES. INSTALLATION SHALL BE SUCH THAT THEIR COVERS WILL BE FLUSH WITH THE SIDEWALK OR SLIGHTLY ABOVE ANY GRASSY AREA PROTECTED BY ROAD CURBING.
- O. COVERS WILL BE LEFT SECURED TO BOX WHEN UNATTENDED. BOXES SHALL BE SUITABLY PROTECTED DURING CONSTRUCTION TO AVOID THEIR DAMAGE. THE DEVELOPER SHALL BE RESPONSIBLE FOR REPLACEMENT COSTS IN THE EVENT OF DAMAGE.

CONSTRUCTION NOTES

1. 4" OF SCREENED, WASHED SAND ABOVE, BELOW & BOTH SIDES OF ALL CONDUITS.
2. BACKFILL TO BE FREE OF STONES GREATER THAN ONE INCH AND SHALL NOT CONTAIN ASHES, CINDERS, SHELL OR FROZEN MATERIAL.
3. INSTALL PLASTIC WARNING TAPE ABOVE ALL CONDUIT RUNS, APPROXIMATELY 12" BELOW FINISH GRADE.
4. MINIMUM SEPARATION BETWEEN ELECTRIC CONDUIT AND ANY COMMUNICATION CONDUIT/CABLE SHALL BE 12".
5. 24" MINIMUM BURIAL DEPTH FROM FINISH GRADE TO TOP OF SECONDARY CONDUITS.
6. 24" MINIMUM BURIAL DEPTH FROM FINISH GRADE TO TOP OF STREETLIGHT CIG (CABLE IN CONDUIT). INSTALLATION TO BE ON CURB SIDE OF TRENCH. ALL ROAD CROSSINGS TO BE AT 30" MINIMUM BURIAL DEPTH.
7. MINIMUM BURIAL DEPTH OF CONDUIT TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION TO BE PREVENT DAMAGE FROM TRAFFIC.
8. TRANSFORMER FOUNDATION TO BE PLACED AS SHOWN IN "TRANSFORMER FIBERGLASS PAD DETAIL" AND FOR GROUNDING REFER TO "TRANSFORMER GROUNDING DETAIL" ON SHEET 4.
9. TRANSFORMER FOUNDATION, PRIMARY CABLE PULL/SPICE BOX, AND/OR SECONDARY HANDHOLE TO BE PLACED ON LEVEL UNDISTURBED OR WELL-TAMPED EARTH COVERED WITH A MIN. OF 4" WELL-TAMPED CRUSHED STONE. MAX. STONE SIZE 3/4".
10. TOP OF CONDUITS SHALL BE 30" MIN. BELOW FINISH GRADE.
11. ALL FOUNDATIONS SHALL HAVE COVERS INSTALLED & LOCKED WHEN TRANSFORMER IS NOT IN PLACE.
12. ALL UNUSED CONDUIT KNOCKOUT HOLES & CONDUITS SHALL BE CAPPED WITH CONDUIT PLUGS.
13. PVC CONDUIT TO PENETRATE INSIDE WALLS OF TRANSFORMER, SECONDARY HANDHOLE, AND/OR PRIMARY CABLE PULL/SPICE BOX BY 3" MAX.
14. TOP OF SECONDARY HANDHOLE AND/OR PRIMARY CABLE PULL/SPICE BOX TO BE FLUSH WITH FINISH GRADE. COVERS TO BE INSTALLED & SECURED AFTER INSTALLATION AND WHEN UNATTENDED.
15. SECONDARY HANDHOLE TO BE PLACED AS SHOWN IN LOCATION PLAN OR ALTERNATE LOCATION PLAN WITH 3 CONDUIT HOLES FACING THE ELECTRIC/COMMUNICATION TRENCH.
16. SECONDARY HANDHOLE SHALL BE INSTALLED TO MAINTAIN 24" BURIAL DEPTH FROM FINISH GRADE TO TOP OF CONDUIT KNOCKOUTS.
17. THE COMPANY SHALL DESIGNATE CONDUIT RISER LOCATION ON POLE(S). WHEN POSSIBLE, THE CONDUIT RISER PIPE TO BE LOCATED ON THE POLE QUARTER AWAY FROM TRAFFIC.
18. RISER PIPES SHOULD NOT BE PLACED ON SAME POLE WITH COMMUNICATIONS RISER IF AVOIDABLE.
19. SEE "PRIMARY RISER POLE DETAIL" ON SHEET 3. CUSTOMER TO INSTALL GROUND CLAMP 6" FROM TOP OF 10' GALVANIZED STEEL CONDUIT ON RISER POLE.
20. ALL PRIMARY CONDUITS WILL BE CONCRETE ENCASED. READY-MIX CONCRETE SHALL CONFORM TO MIX #2 (FOR DUCTLINES - TIER METHOD) AND MIX #3 (FOR DUCTLINES - UNIT METHOD) OF STANDARD 0211 WHICH SPECIFIES: 2000 PSI STRENGTH AT 28 DAYS AND AIR-ENTRAINMENT CONTENT OF 7.0% PLUS OR MINUS 2.0%

- P. THE DEVELOPER SHALL:
- * INSTALL REQUIRED GROUNDING AT ALL TRANSFORMER AND SWITCH/FUSE ENCLOSURES. (THE COMPANY SHALL MAKE FINAL GROUND CONNECTIONS AT TRANSFORMERS AND RISER POLES.)
 - * INSTALL GALVANIZED STEEL 90 DEGREE BENDS AND STRAIGHT GALVANIZED STEEL CONDUIT, INCLUDING CONDUIT GROUND CLAMPS AT RISER POLES. CONCRETE ENCASED BENDS SHALL NOT ENCASE THE STEEL TO PVC CONDUIT ADAPTER.
 - * ROD WITH MANDRELL ALL PRIMARY AND SECONDARY CONDUITS TO INSURE THEIR INTEGRITY BEFORE THE COMPANY SHALL ATTEMPT TO PULL ANY PRIMARY OR SECONDARY CABLE. (ANY CRUSHED OR DAMAGED CONDUIT SHALL BE RE-EXCAVATED AND REPAIRED BY DEVELOPER AT HIS EXPENSE.)
 - * FURNISH AND INSTALL, 2500 POUND RATED PULLING TAPE IN ALL CONDUITS. PULLING TAPE IS TO BE INSTALLED AFTER COMPLETION OF A DUCT SECTION AND AFTER RODDING WITH MANDRELL WFR. CAT # ARNCO: DLWP25, CONDUX: 08096303, NEPTCO.: WP2500P
 - * OBTAIN NECESSARY AGREEMENT FOR STREETLIGHT LAYOUT WITH THE COMPANY AND THE MUNICIPALITY IN ADVANCE OF THE URD DEVELOPMENT COMMENCING.
 - * FURNISH TRENCHING AND EXCAVATIONS REQUIRED FOR LIGHT POLE BASES AND CONDUIT IN CABLE INSTALLATION IN ACCORDANCE WITH THE SITE SPECIFIC CONSTRUCTION PLAN.
- Q. ROAD BINDER ASPHALT AND CURBING SHALL BE INSTALLED PRIOR TO ANY URD INSTALLATION. GRADING AND LOT LOCATIONS MUST BE STAKED PRIOR TO INSTALLATION OF DUCT SYSTEM, EXCLUDING ROAD CROSSINGS.

ELECTRICAL SYMBOLS

- EXISTING WOOD POLE
- PROPOSED RISER POLE (NOTE: EXISTING WOOD POLE)
- EXISTING STREETLIGHT
- PROPOSED STREETLIGHT
- PRIMARY CABLE PULL/SPICE BOX
- SECONDARY HANDHOLE
- SECONDARY CABLE - 1/0 COPPER
- STREETLIGHT CABLE IN CONDUIT (CIC) - #6 Cu
- S- CUSTOMER SECONDARY SERVICE
- 25 SINGLE PHASE PADMOUNTED TRANSFORMER
- 3 THREE PHASE WYE PADMOUNTED TRANSFORMER
- Δ THREE PHASE DELTA PADMOUNTED TRANSFORMER
- F- FUSE
- D- PRIMARY CABLE TERMINATION (POHEAD)
- ⚡ SURGE ARRESTOR
- ↑ or ↓ LOADBREAK BUSHING
- MODULAR 15kV SPLICE

CONSTRUCTION NOTES (CONT.)

21. BOLLARDS TO BE INSTALLED BY CUSTOMER (SEE DETAIL "G" ON SHEET 3).
22. BOLLARDS SHALL BE INSTALLED WITH DUE CARE TO AVOID INTERFERING WITH GROUND GRID AND CONDUITS. CONCRETE IS TO BE CROWNED ON THE TOP OF POST.
23. CONDUIT NOTES: CONCRETE ENVELOPE SHALL NOT CONTAIN COMMUNICATIONS CABLE OR ANY UNSPECIFIED CONDUITS.
24. BOLLARDS - SHALL CONSIST OF 4" MINIMUM DIAMETER (HOT DIPPED) GALVANIZED STEEL PIPES. CONCRETE FILLED BOLLARDS ARE TO BE BURIED MINIMUM OF 48 INCHES IN THE GROUND AND EXTEND ABOVE THE GROUND BETWEEN 60 AND 72 INCHES. CONCRETE IS TO BE CROWNED ON TOP OF POLE.

REV	DATE	DESCRIPTION	BY	APP'D	APP'D
1	1-18-2005	UPDATED LIGHT LABELS & WIRE SIZE	RF	RMV	AF

LEGEND

- STREETLIGHT CABLE IN CONDUIT - 1" C.I.C.
- P ○ PRIMARY ELECTRIC CONDUIT - 3" PVC
- C ○ COMMUNICATION CONDUIT/CABLE - 3" PVC
- SP ○ SPARE CONDUIT - 3" PVC
- INTERMEDIATE CONDUIT SPACER - 3"
- BASE CONDUIT SPACER - 3"

SYMBOLS

- ↔ SECTION NUMBER
- ↔ SHEET NUMBER
- ⊗ LOT NUMBER (per Assessor's Plat)

SHEET INDEX

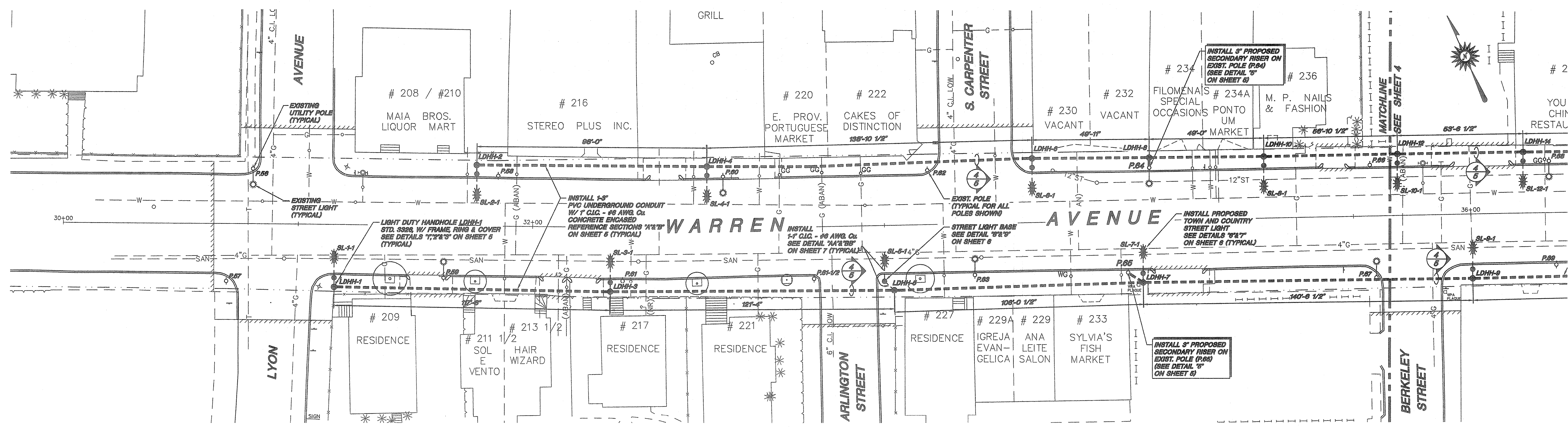
- SHEET 1: TITLE SHEET: SYMBOLS, AND NOTES
- SHEET 2: SITE PLAN
- SHEET 3: SITE PLAN - I
- SHEET 4: SITE PLAN - II & III
- SHEET 5: RISER POLE & LIGHT DUTY HAND HOLE DETAILS
- SHEET 6: STREET LIGHT BASE DETAILS
- SHEET 7: STREET LIGHT TRENCH DETAILS

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 11-011
DATED JUL 25 2005
SEE LETTER OF SAME DATE.

Charles A. Habert
Office of Water Resources

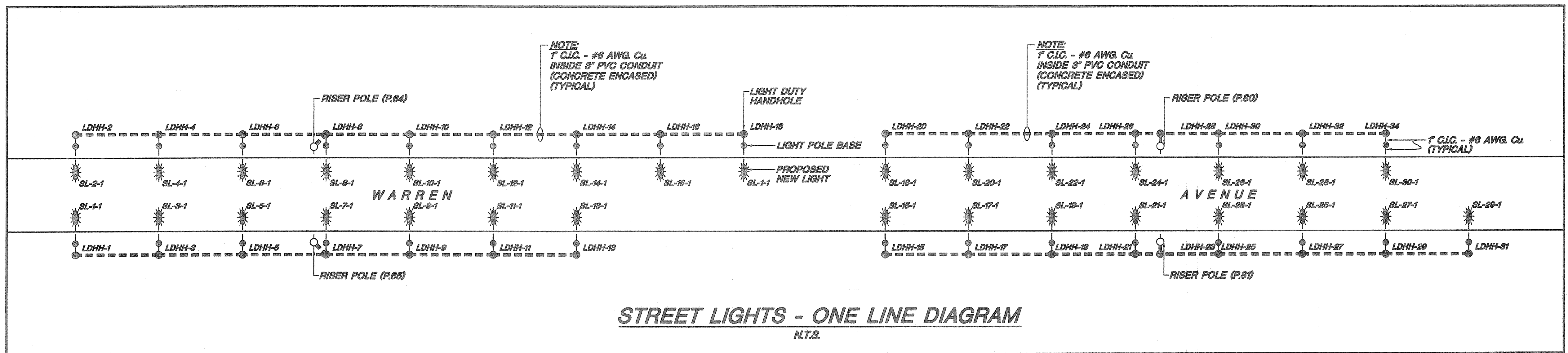
WORK REQUEST: 147632
FILENAME: 2004132-1

nationalgrid
WARREN AVE. LIGHTING
REVITALIZATION PROJECT
PHASE I
P.64, 65 & P.80, 81 - WARREN AVENUE
EAST PROVIDENCE, RI
STREET LIGHTING INSTALLATION
PERMIT & CONSTRUCTION
SCALE AS NOTED DATE 10-28-2004 BY RF RMV AP JB



SITE PLAN - I
T= 20'-0"

NOTE: ALL UTILITY POLES ARE EXISTING



STREET LIGHTS - ONE LINE DIAGRAM
N.T.S.

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 REVIEWED SITE PLAN APPLICATION NO.: N-011
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.
Charles A. Haber

FOR NOTES & REFERENCES, SEE SHEET 1.

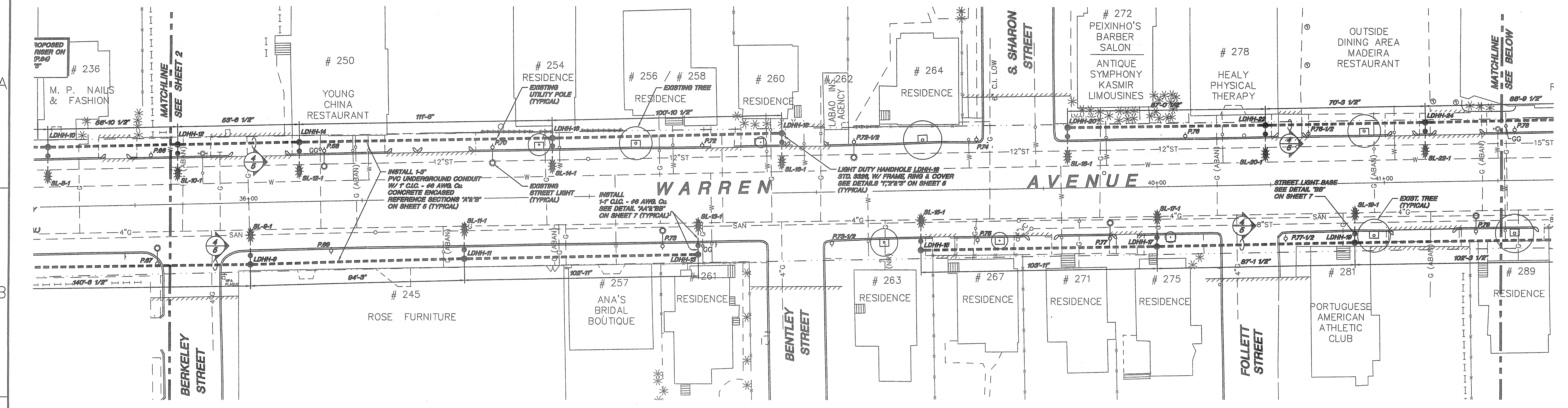
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REV	DATE	DESCRIPTION	BY	RYTD	APPD	
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WORK REQUEST: 147632
 FILENAME: 2004132-3

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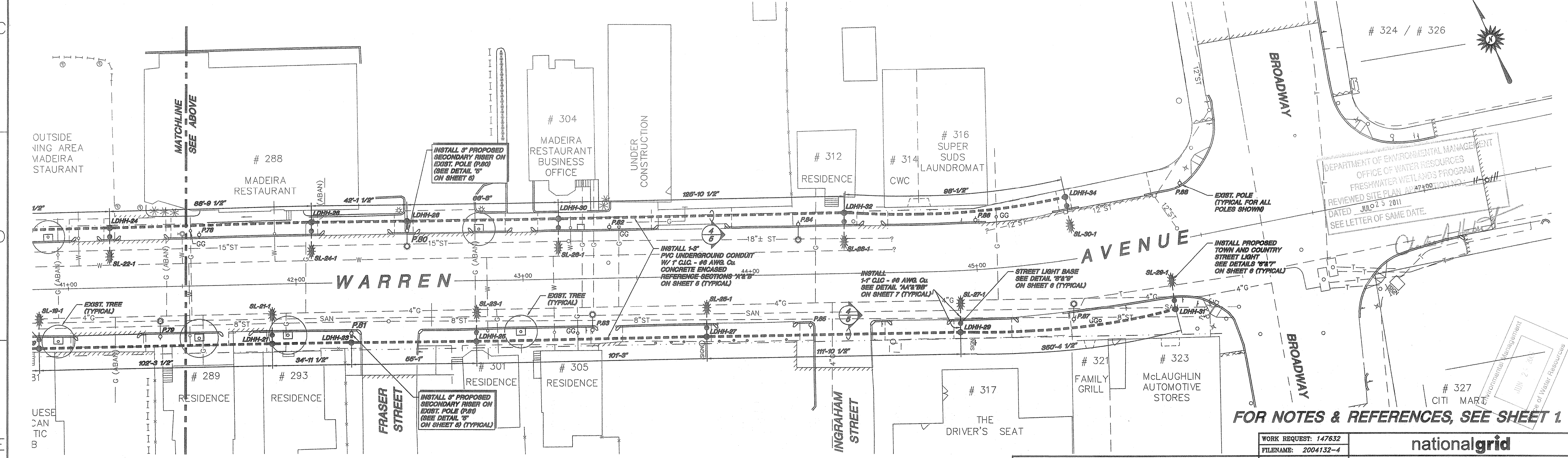
WARREN AVE. LIGHTING
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 PHASE I
 P.64, 65 & P.80, 81 - WARREN AVENUE
 EAST PROVIDENCE, RI
 STREET LIGHTING INSTALLATION
 PERMIT & CONSTRUCTION

SCALE AS NOTED DATE 10-29-2004 BY RF RV PAV AP JB



SITE PLAN - II
T= 20'-0"

NOTE: ALL UTILITY POLES ARE EXISTING



SITE PLAN - III
T= 20'-0"

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APRIL 21, 2011
DATED JULY 25, 2011
SEE LETTER OF SAME DATE.

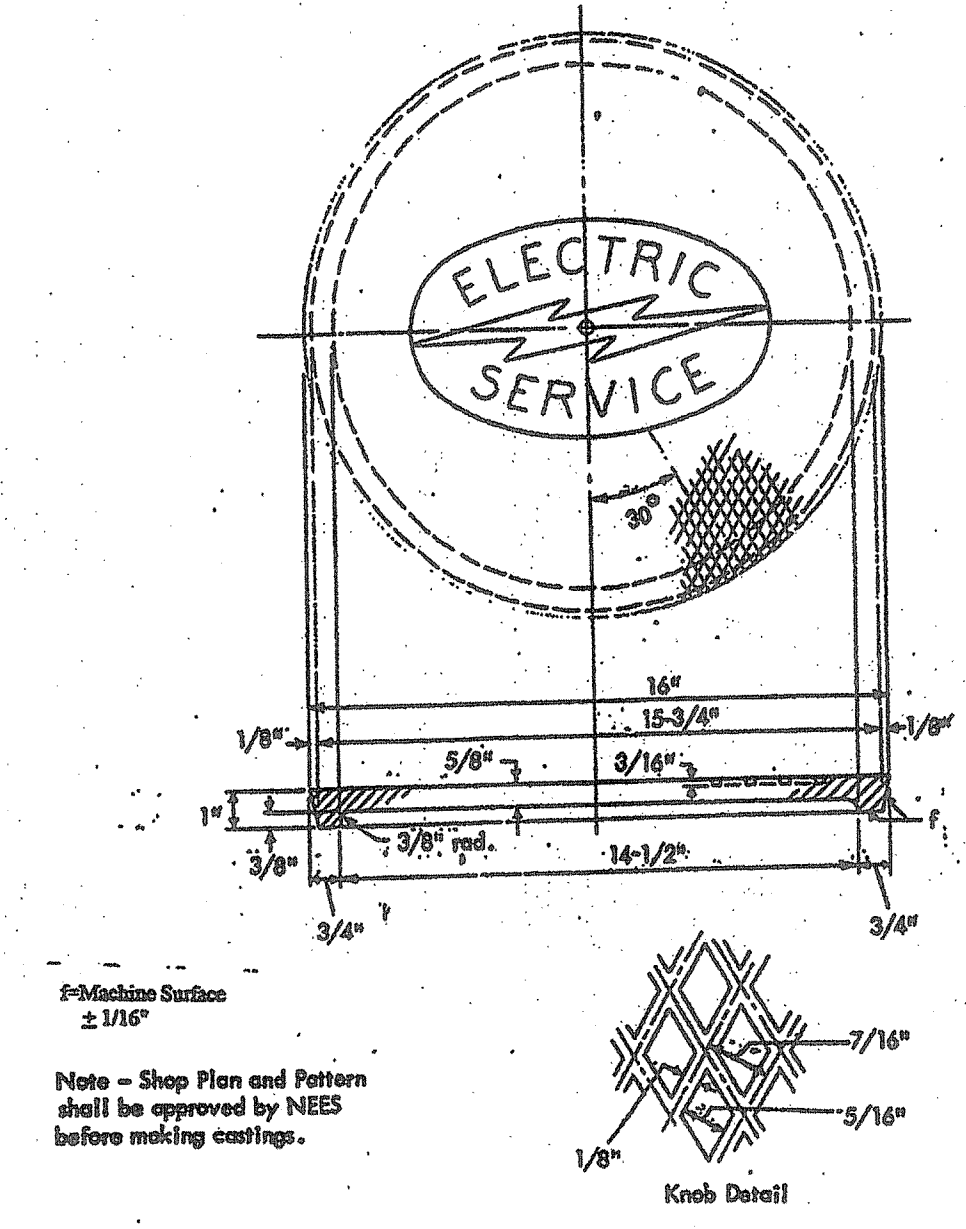
FOR NOTES & REFERENCES, SEE SHEET 1

REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHKD	APP'D
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WORK REQUEST: 147632
FILENAME: 2004132-4

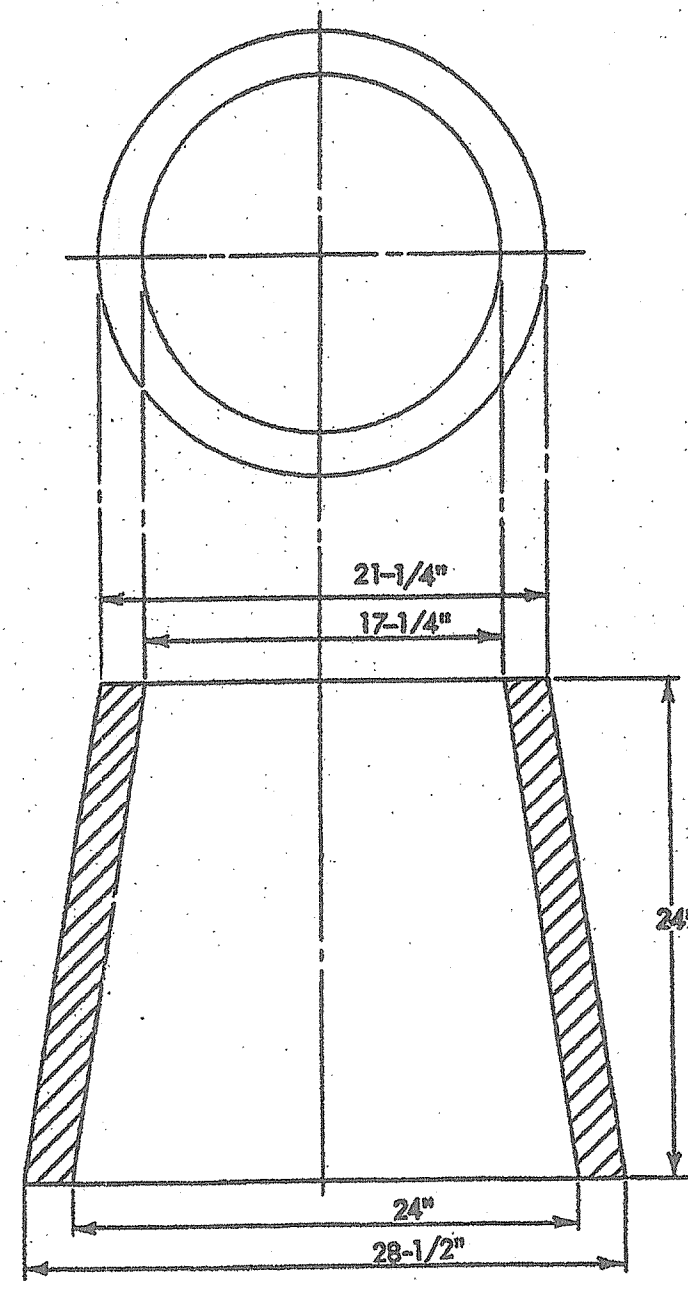
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WARREN AVE. LIGHTING
REVITALIZATION PROJECT
PHASE 1
P.64, 65 & P.80, 81 - WARREN AVENUE
EAST PROVIDENCE, RI
STREET LIGHTING INSTALLATION
PERMIT & CONSTRUCTION
SCALE AS NOTED DATE 10-29-2004 BY RF PLW JAF

- 1. **FITS** - Handhole Frame MS 3711
- 2. **USAGE** - Light Duty Handhole - GS 3326
- 3. **MATERIAL** - Gray Cast Iron, A.S.T.M. specification 48, Latest Revision - Class 30

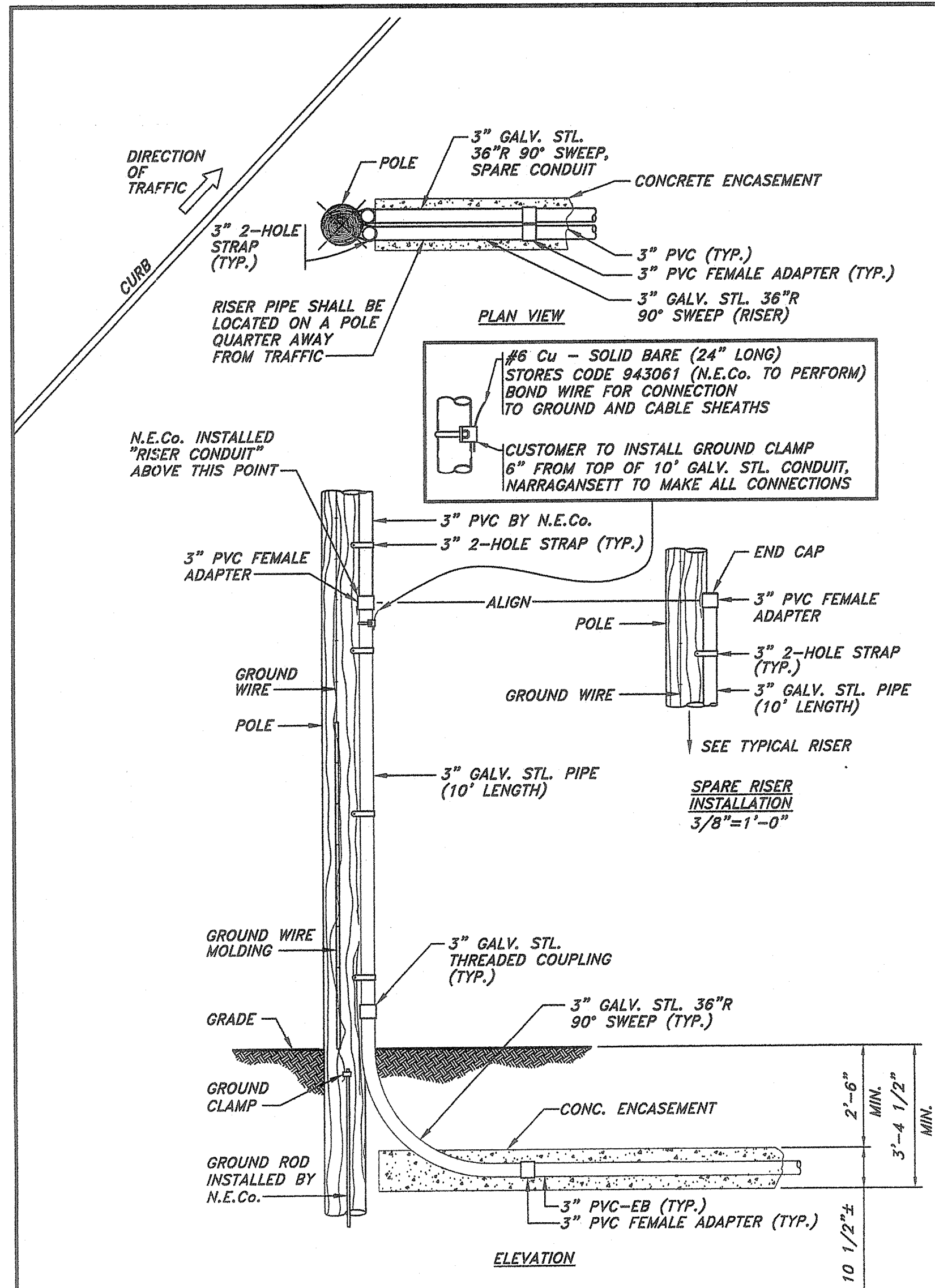


N.E.Co. STANDARD "CS 3712" PAGE 1 OF 2
**BASE MOUNTED 14 FOOT FIBERGLASS POLE
 INSTALLATION DETAIL** 1
 N.T.S.

- 1. **USAGE** - Light Duty Handhole.
- 2. **MATERIAL** - Concrete to have minimum strength of 4000# at 28 days. Minimum reinforcement 3" x 3" mesh of #8 wire.
- 3. **CODE** - #640235.



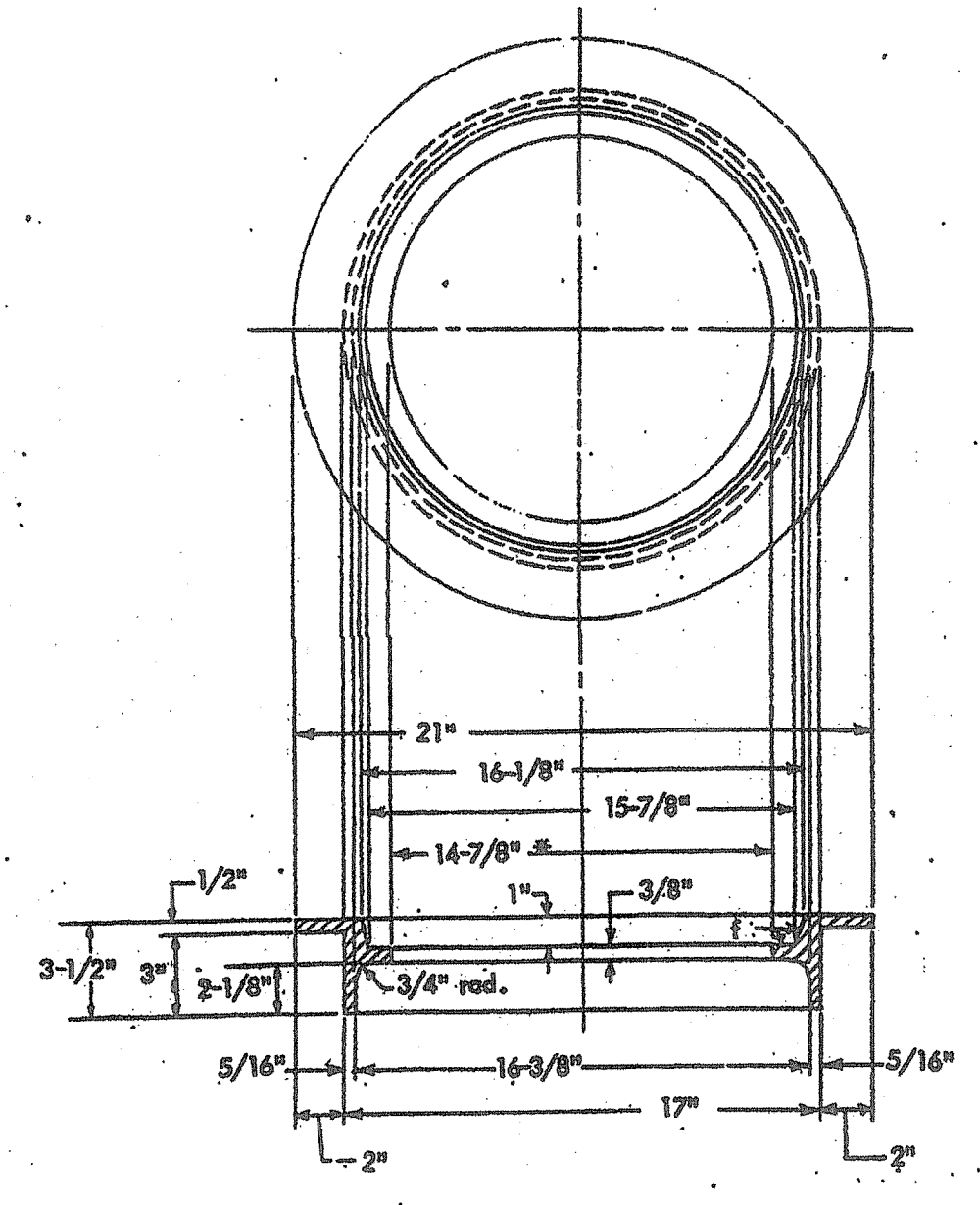
REFERENCE DETAIL "AA" ON SHEET 7
 N.E.Co. STANDARD "CS 3326" PAGE 1 OF 1
**PRECAST CONCRETE FOUNDATION
 (8-5/8" BOLT CIRCLE) DETAIL** 3
 N.T.S.



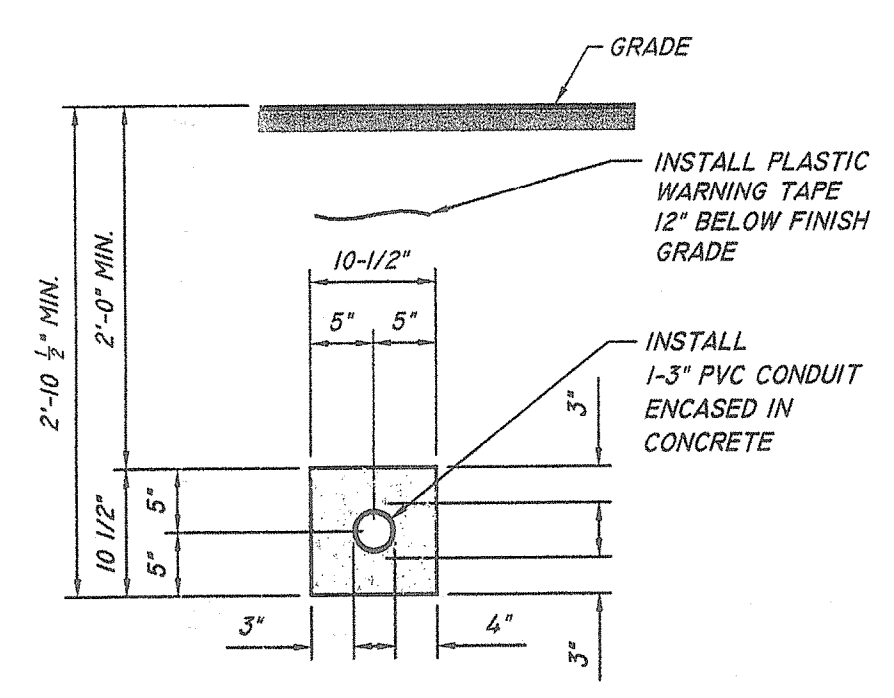
N.E.Co. STANDARD "CS 3232"
**3" SECONDARY CONDUIT
 RISER POLE DETAIL** 5
 3/8"=1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 11-011
 DATED JUL 25 2011
 SEE LETTER OF SAME DATE.
Charles A. Habert

- 1. **USAGE** - Light Duty Handhole, GS 3326
- 2. **MATERIAL** - Gray Cast Iron, A.S.T.M. specification 48, Latest Revision - Class 30



N.E.Co. STANDARD "CS 3711" PAGE 2 OF 2
**BASE MOUNTED 14 FOOT FIBERGLASS POLE
 INSTALLATION DETAIL** 2
 N.T.S.



- TRENCH DETAIL -
SECTION 4
 3/4"=1'-0"

- NOTES:
1. COMMUNICATIONS CABLES OR DUCTS TO BE 12" (MIN.) FROM PRIMARY ELECTRIC DUCTS CONCRETE ENCASEMENT.
 2. PRIMARY ELECTRIC DUCT CONCRETE ENVELOPE SHALL NOT CONTAIN COMMUNICATIONS CABLE OR ANY UNSPECIFIED CONDUITS.

FOR CABLE IN CONDUIT (C.I.C.) "TRENCH DETAIL"
 REFERENCE DETAIL "CC" ON SHEET 7

FOR NOTES & REFERENCES, SEE SHEET 1.

REV	DATE	DESCRIPTION	BY	APP'D	APP'D
1	1-18-2005	UPDATED LIGHT LABEL'S & WIRE SIZE	RF	PKM	MP

WORK REQUEST: 147632
 FILENAME: 2004132-5

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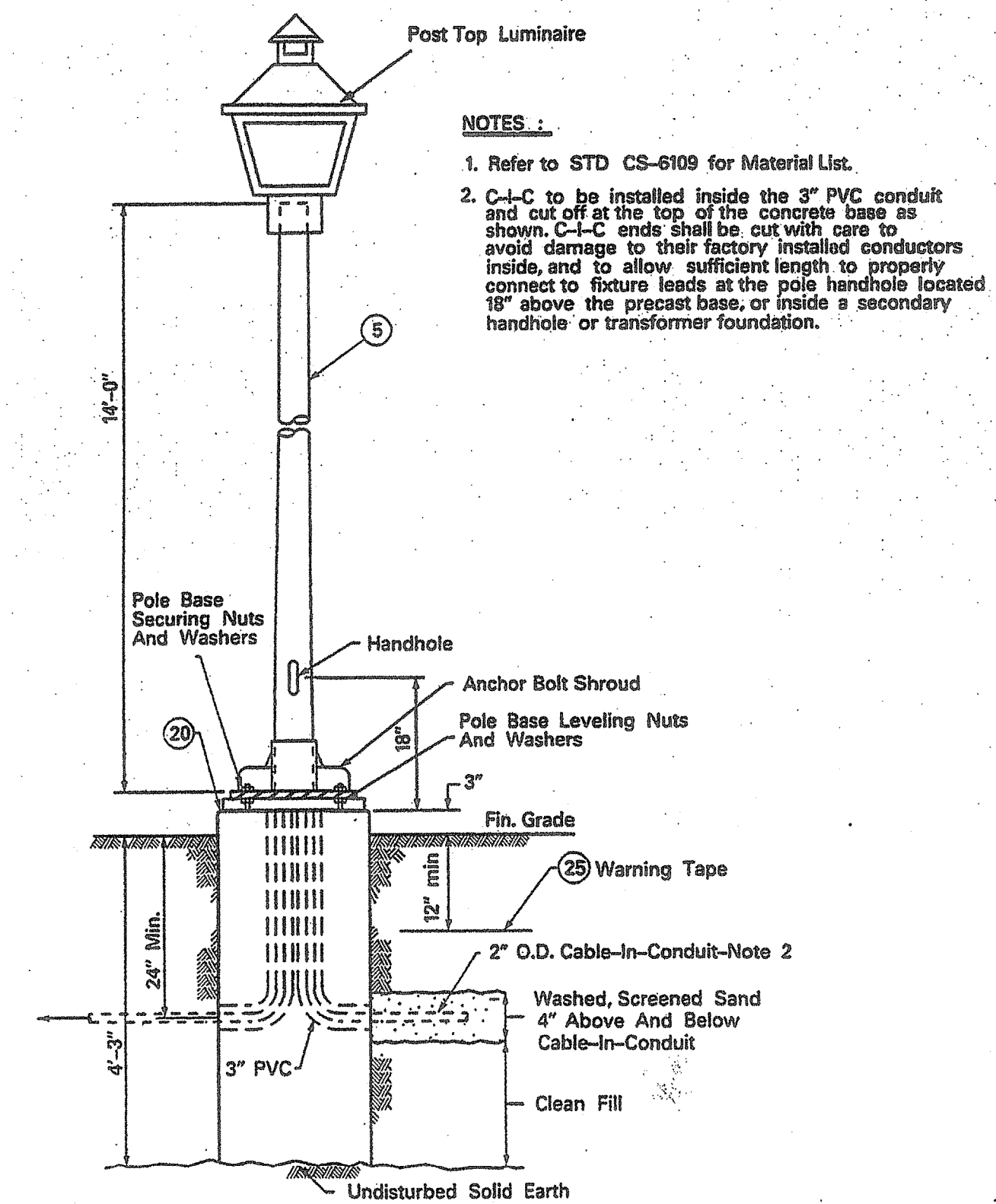
**WARREN AVE. LIGHTING
 REVITALIZATION PROJECT
 PHASE I**

P.64, 65 & P.80, 81 - WARREN AVENUE
 EAST PROVIDENCE, RI
**STREET LIGHTING INSTALLATION
 PERMIT & CONSTRUCTION**

SCALE AS NOTED DATE 10-29-2004 BY RF BY PKM AP MP

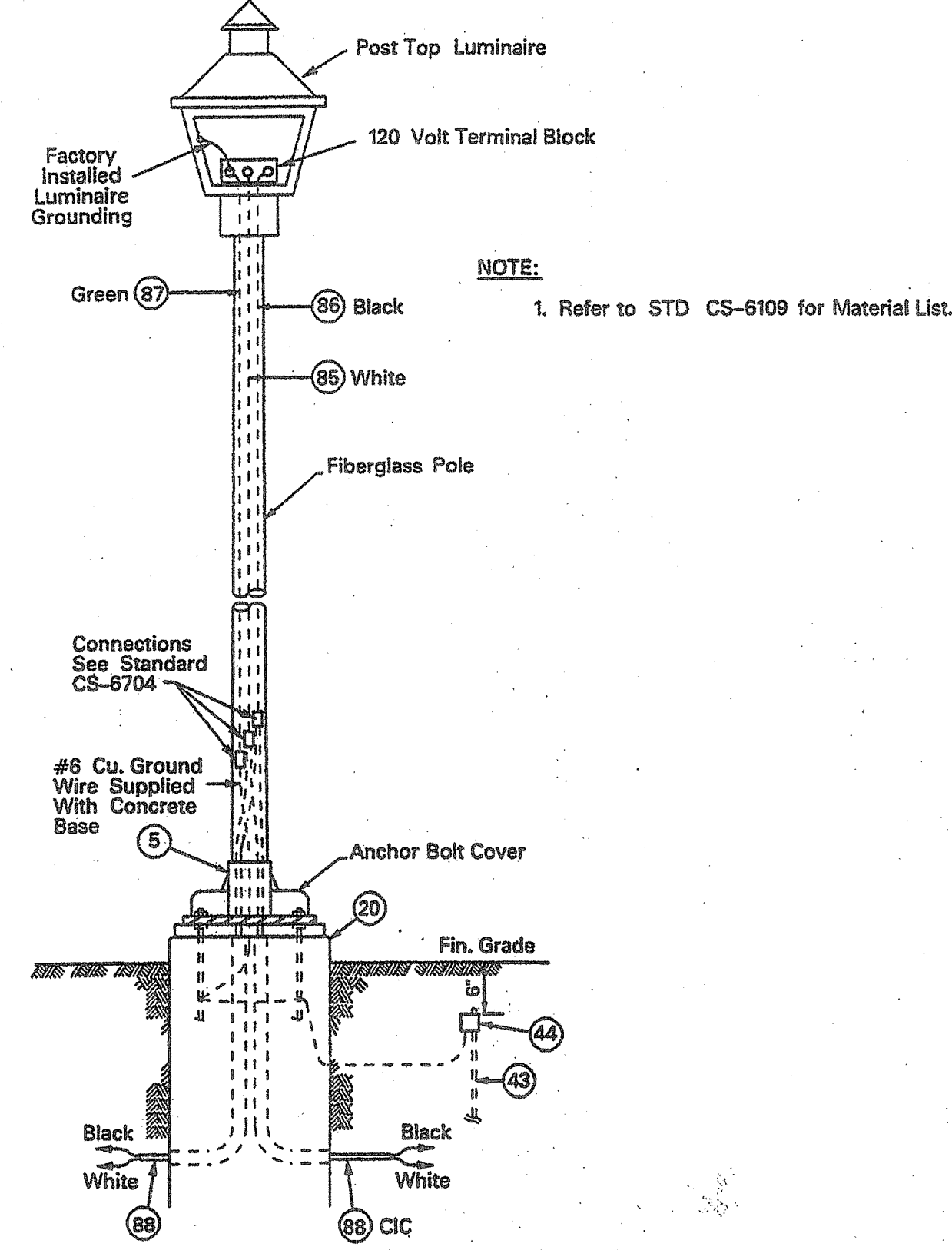
1. APPLICATION - Base mounted, 14 foot, fiberglass poles are used for street lighting applications using post top mounted luminaires.

2. POLE INSTALLATION - See Figure 1.



N.E.Co. STANDARD "CS 6810" PAGE 1 OF 2
**BASE MOUNTED 14 FOOT FIBERGLASS POLE
INSTALLATION DETAIL**
N.T.S.

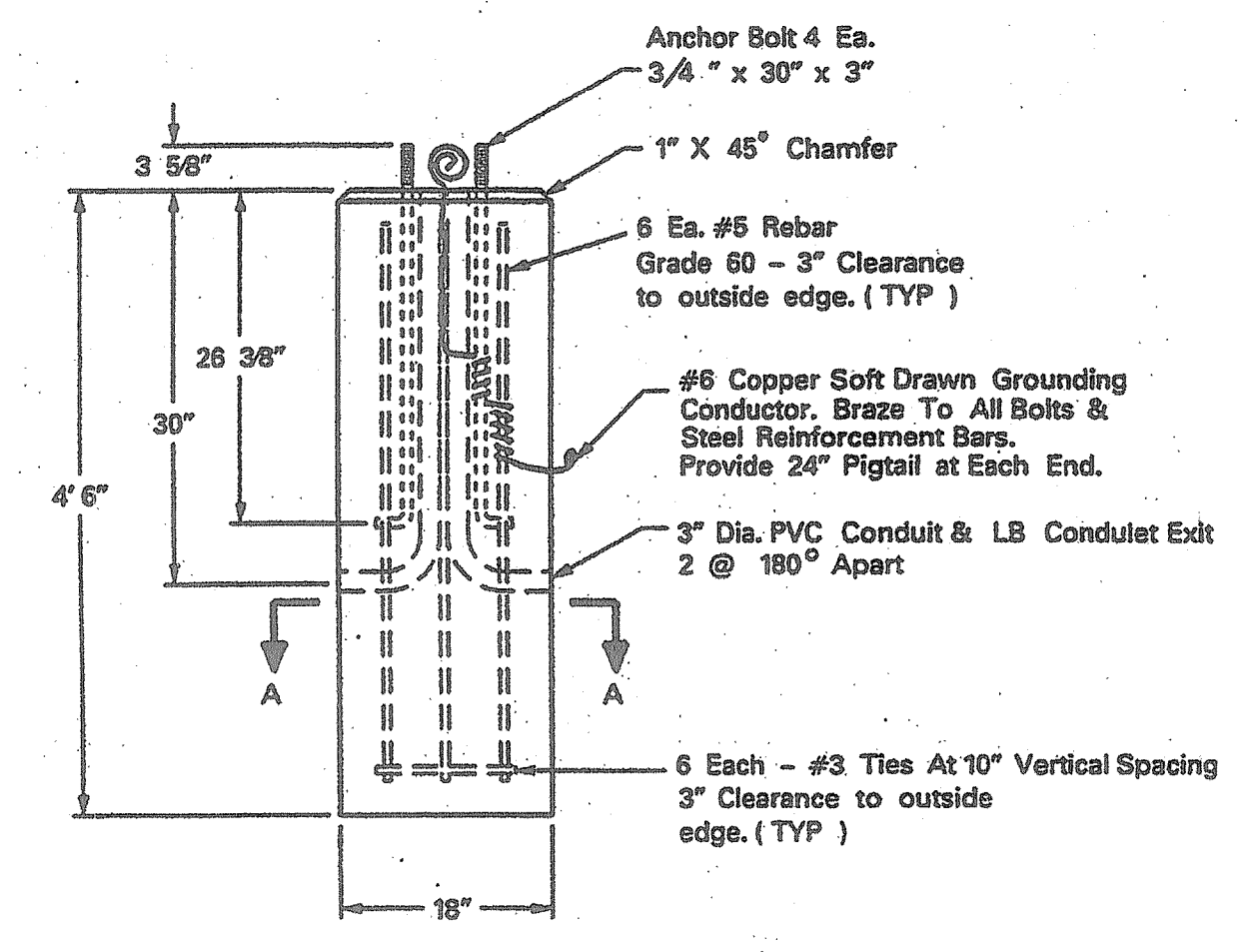
3. WIRING DETAILS - See Figure 2.



N.E.Co. STANDARD "CS 6810" PAGE 2 OF 2
**BASE MOUNTED 14 FOOT FIBERGLASS POLE
INSTALLATION DETAIL**
N.T.S.

1. APPLICATION: Precast concrete foundations are used for mounting all 14 foot aluminum and fiberglass, base mounted, post top style, lighting standards.

2. SPECIFICATIONS: All precast concrete foundations with an 8 5/8" bolt circle shall conform to the following specifications, including Figures 1, 2, and 3.



REFERENCE DETAIL "BB" ON SHEET 7

N.E.Co. STANDARD "CS 6720" PAGE 1 OF 2
**PRECAST CONCRETE FOUNDATION
(8-5/8" BOLT CIRCLE) DETAIL**
N.T.S.

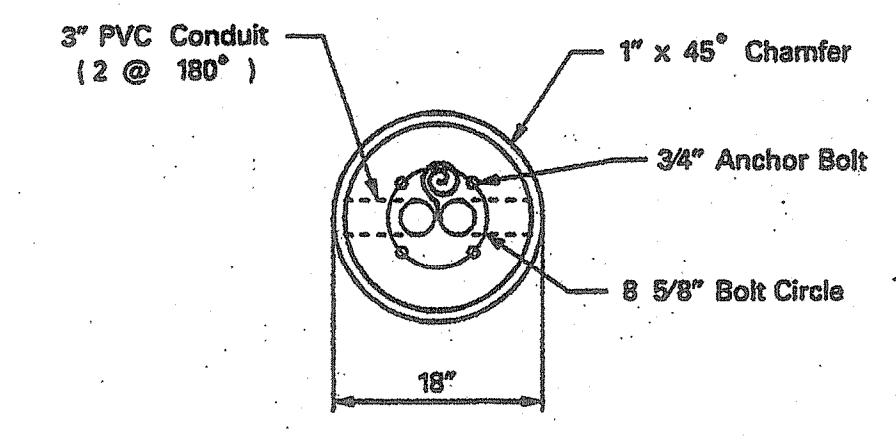


Figure 2 - Precast Concrete Foundation - Top View

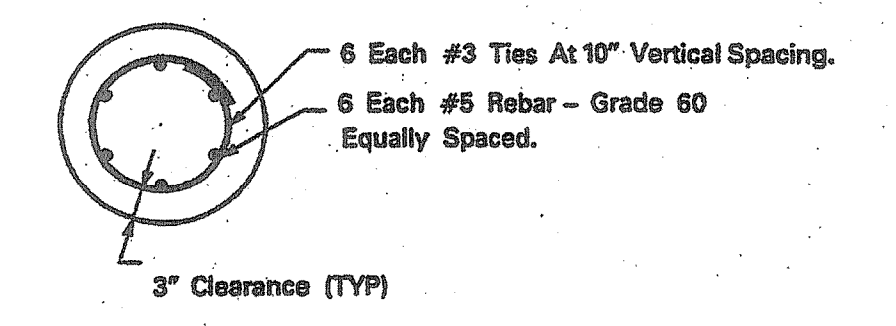


Figure 3 - Reinforcement Detail - Section "A-A" (See Figure 1)

General: Precast concrete lighting foundation, 18 inch round x 4' - 6" deep, with 1" x 45 degree chamfer around top edge. Approx. weight = 1,200 pounds.

Concrete Strength: 4,500 PSI @ 28 day compressive, minimum. Density = 150 pounds per cubic foot.

Reinforcement: Reinforcement shall be in accordance with ASTM A615, Grade 60, with up to 60,000 PSI yield. See Figure 3.

Anchor Bolts: Provide four 3/4" x 30" x 3" anchor bolts, each one with two hexhead nuts and two round washers, all hardware to be A36 galvanized. Bolt circle diameter to be 8 5/8". Bolt projection above top of foundation shall be 3 3/4".

Wiring Access: Provide two 3" diameter PVC conduits with LB conduit exit bends mounted 180 degrees apart. Each conduit to be cut flush with the concrete surface.

Grounding: Provide #6 stranded soft drawn copper wire. Braze copper wire to all anchor bolts and all steel reinforcement rods. Provide a 24" pigtail lead at each end.

3. STORES CODE: 100005

N.E.Co. STANDARD "CS 6720" PAGE 2 OF 2
**PRECAST CONCRETE FOUNDATION
(8-5/8" BOLT CIRCLE) DETAIL**
N.T.S.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 11-0111
DATED JUL 25 2011
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Charles A. Haber

Environmental Management
JAN 21 2011
Office of Water Resources

REFERENCE DETAILS ON SHEET 7

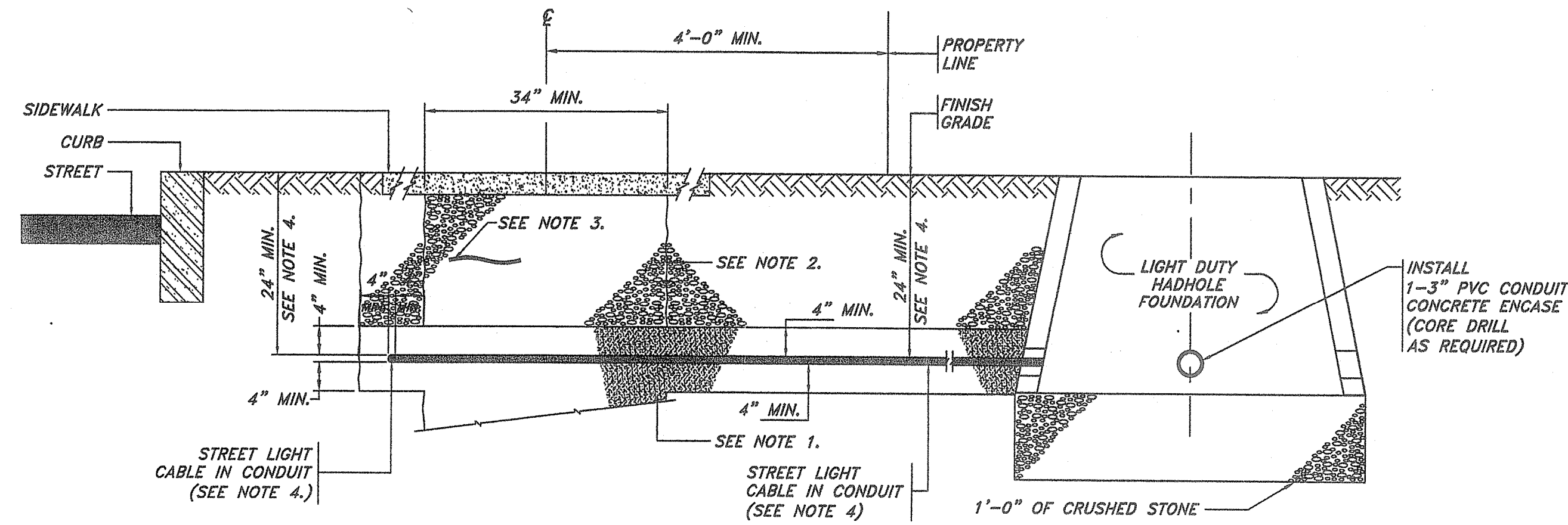
WORK REQUEST: 147632
FILENAME: 2004132-6

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WARREN AVE. LIGHTING
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PHASE I
P.64, 65 & P.80, 81 - WARREN AVENUE
EAST PROVIDENCE, RI
STREET LIGHTING INSTALLATION
PERMIT & CONSTRUCTION

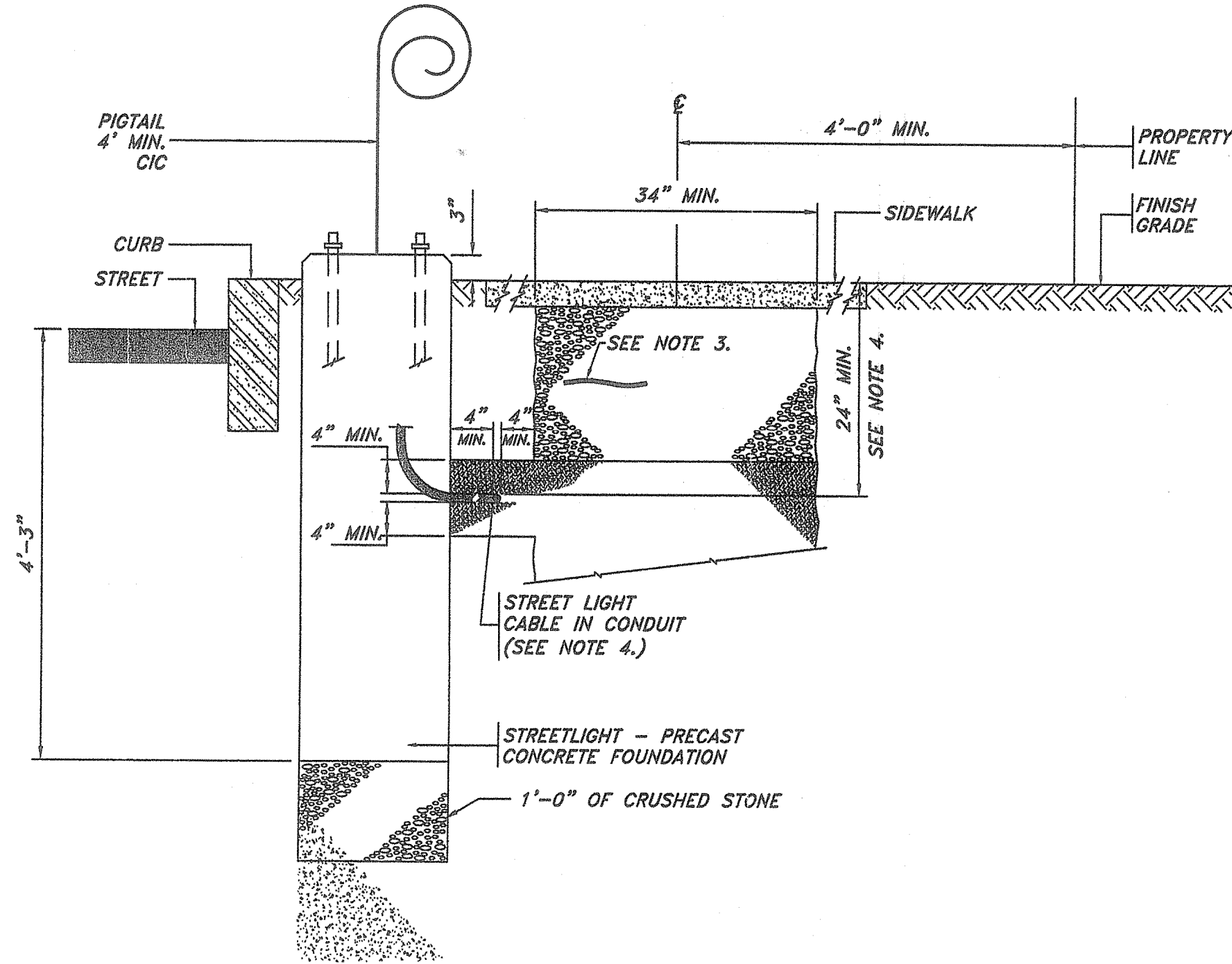
REVISIONS						
REV	DATE	DESCRIPTION	BY	HYTD	APPD	
1	1-18-2005	UPDATED LIGHT LABEL'S & WIRE SIZE	RS	RMV	JLF	

SCALE AS NOTED DATE 10-29-2004 BY RS RV RMV AP JB



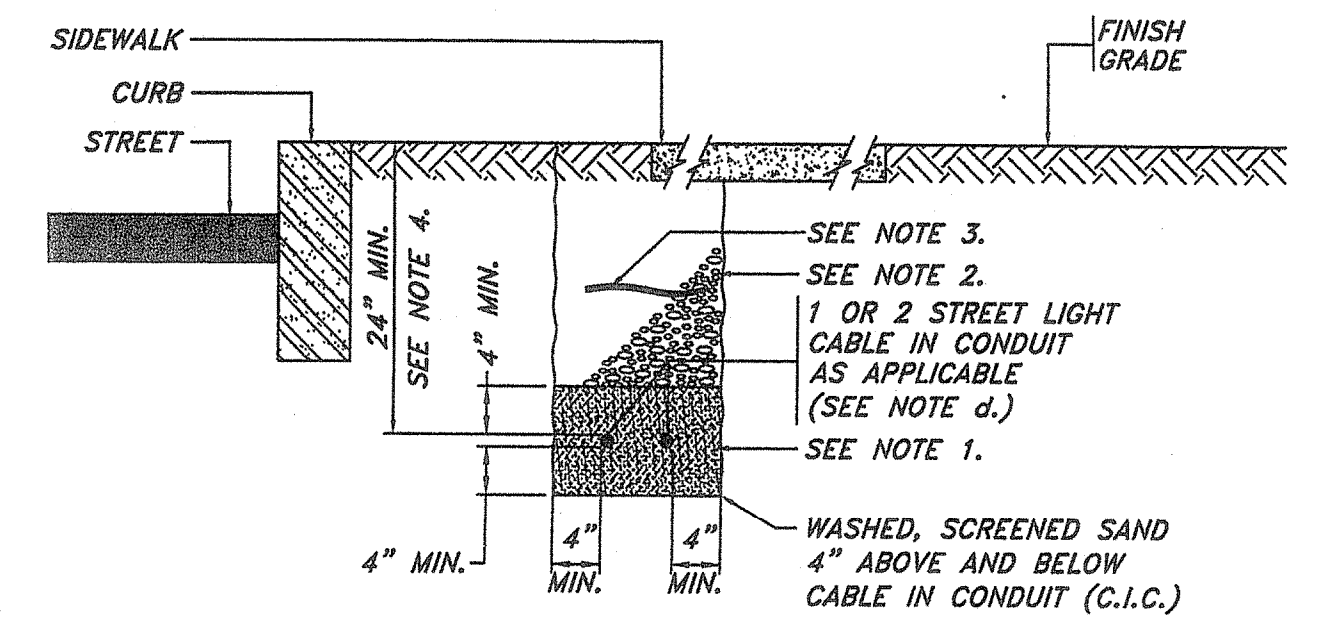
INSTALLATION OF CIC FROM SECONDARY HANDHOLE OR TRANSFORMER FOUNDATION TO STREETLIGHT TRENCH

DETAIL AA
3/4" = 1'-0"



INSTALLATION OF CIC FROM TRENCH TO STREETLIGHT PEDESTAL AFTER UCD INSTALLATION

DETAIL BB
3/4" = 1'-0"



1 OR 2 STREETLIGHT CIC (AS APPLICABLE)

DETAIL CC
3/4" = 1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 11-011
DATED JUL 25 2011
SEE LETTER OF SAME DATE.
Charles A. Hill

Environmental Management
Office of Water Resources

FOR NOTES & REFERENCES, SEE SHEET I.

REV	DATE	DESCRIPTION	BY	RV	WD	AP	PVD
1	1-18-2005	UPDATED LIGHT LABELS & WIRE SIZE	RF	PMV	ALP		

WORK REQUEST: 147632
FILENAME: 2004132-7

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WARREN AVE. LIGHTING
REVITALIZATION PROJECT
PHASE I
P.64, 65 & P.80, 81 - WARREN AVENUE
EAST PROVIDENCE, RI
STREET LIGHTING INSTALLATION
PERMIT & CONSTRUCTION
SCALE 3/4" = 1'-0" DATE 10-29-2004 BY RF RV PMV AP SW