

REFERENCE

1. "EXISTING CONDITIONS TOPOGRAPHIC PLAN 590 HIGH STREET WESTWOOD, MASS." PREPARED BY FELDMAN LAND SURVEYORS 112 SHAWMUT AVENUE, BOSTON, MASS. 02118; SCALE: 1"=30'; DATED: DECEMBER 22, 2014; 8-1-2015 ADDITIONAL TOPOGRAPHY AT DERFIELD SCHOOL ADDED; SHEET 1 OF 1; SCALE: 1"=30'; JOB NO. 14738; CRD FILE 14498; CAD FILE NO. 14738-02-2015-8-21
2. PROPOSED PROPERTY LINES TAKEN FROM THAT PLAN ENTITLED "DEFINITIVE SUBDIVISION 590 HIGH STREET WESTWOOD, MASS." BY FELDMAN LAND SURVEYORS 112 SHAWMUT AVENUE, BOSTON, MASS. 02118; SCALE: 1"=30'; DATED: JULY 13, 2015; SHEET 1 OF 1; SCALE: 1"=30'; JOB NO. 14738; CRD FILE 14498; CAD FILE NO. 14738-A3_2015-9-1.

COUNTY REGISTRY OF DEEDS

- BOOK 1125, PAGE 356
- BOOK 3478, PAGE 436
- BOOK 4324, PAGE 677
- BOOK 4329, PAGE 392
- BOOK 5698, PAGE 694

- PLAN NO. 750-1973
- PLAN NO. 903-1925
- PLAN NO. 1356-1909
- PLAN NO. 453-1935
- PLAN NO. 916-1984

NORFOLK COUNTY ENGINEERING DEPARTMENT

- PLAN NO. 18-846

PLAN OF LAND, BY E.W. PILLING, DATED MAY 21, 1952.

SURVEY NOTES

- 1) BENCH MARK INFORMATION SUPPLIED BY THE TOWN OF WESTWOOD ENGINEERING OFFICE.
 - BENCH MARK USED: HYDRANT SPINDLE IN FRONT OF HOUSE #646 HIGH STREET, ELEVATION = 239.37
 - TEMPORARY BENCH MARKS SET:
 - TBM-A- HYDRANT, BOLT OVER MAIN OUTLET, ELEVATION = 244.34
 - TBM-B- HYDRANT, BOLT OVER MAIN OUTLET, ELEVATION = 241.21
 - TBM-C- HYDRANT, BOLT OVER MAIN OUTLET, ELEVATION = 251.96
- 2) ELEVATIONS REFER TO PLAN ENTITLED "HIGH STREET, HOUSE SERVICES, WESTWOOD, MASS, SHEET 2 OF 44, PREPARED BY WHITMAN & HOWARD INC, DATED MARCH, 1983.
- 3) CONTOUR INTERVAL EQUALS ONE (1) FOOT.
- 4) BY GRAPHIC PLOTTING ONLY, THE PARCEL SHOWN HEREON LIES WITHIN A ZONE "X" (UNSHADED), AN AREA OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD, AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A) FLOOD INSURANCE RATE MAP (F.I.R.M.) FOR NORFOLK COUNTY, MASSACHUSETTS, MAP NUMBER 25021C017E, TOWN OF WESTWOOD COMMUNITY NUMBER 250225, PANEL NUMBER 017E, HAVING AN EFFECTIVE DATE OF JULY 17, 2012.
- 5) UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFORESAID RECORD PLANS AND ARE APPROXIMATE ONLY. WE CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACCURATELY SHOWN ON SAID RECORD PLANS, SINCE SUB-SURFACE UTILITIES CANNOT BE VISIBLY VERIFIED. BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUB-SURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL TOLL FREE, THE DIG SITE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
- 6) WETLANDS FLAGS SHOWN HEREON WERE PRE-EXISTING ON SITE.
- 7) THE PREMISES LIE WITHIN THE SINGLE RESIDENCE "C" ZONING DISTRICT AND THE WIRELESS COMMUNICATIONS OVERLAY DISTRICT.
- 8) THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF FELDMAN LAND SURVEYORS ISSUED TO OUR CLIENT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO FELDMAN LAND SURVEYORS' SCOPE OF SERVICES UNDER CONTRACT TO OUR CLIENT FOR THIS PROJECT. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN CONSENT IS PROVIDED BY FELDMAN LAND SURVEYORS.

GENERAL NOTES

1. THE STATE OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES 1995 EDITION AND THE SUPPLEMENTAL SPECIFICATIONS 2002 EDITION, OR LATEST REVISION, AND THE MASSACHUSETTS STANDARD DETAILS AND THE TOWN OF WESTWOOD STANDARD DETAILS AND CONSTRUCTION STANDARDS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE 1995 EDITION OF THE STANDARD SPECIFICATIONS AND THE 2002 EDITION OF THE SUPPLEMENTAL SPECIFICATIONS MAY BE OBTAINED AT THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE OWNER AND THE ENGINEER.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS, AND CONDUCT ALL WORK IN ACCORDANCE WITH OSHA STANDARDS AND THE TOWN OF WESTWOOD REQUIREMENTS.
4. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
5. ALL EXISTING CONDITIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER, AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEER'S APPROVAL.
6. ALL UTILITIES (LOCATION AND ELEVATION) SHOWN SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-344-7233 AND ALL UTILITY COMPANIES NOT COVERED BY "DIG SAFE". TO ACCURATELY LOCATE UNDERGROUND UTILITIES, ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AS SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE. NOTE THAT NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL RESPECTIVE UTILITY COMPANIES TO VERIFY AND LOCATE EXISTING UTILITIES.
7. ALL WORK WITHIN THE RIGHT OF WAY SHALL CONFORM TO THE TOWN OF WESTWOOD DEPARTMENT OF PUBLIC WORKS REQUIREMENTS, AND MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES 1995 EDITION AND THE 2002 EDITION OF THE SUPPLEMENTAL SPECIFICATIONS, OR LATEST REVISIONS TO BOTH.
8. PAVEMENT MARKINGS ARE TO BE EPOXY AND CONFORM TO THE SPECIFICATIONS.
9. PRIOR TO PLACEMENT OF FINAL COAT OF PAVEMENT ALL EXISTING PAVEMENT IS TO BE SWEEP CLEAN AND ASPHALT EMULSION TRACK COAT IS TO BE APPLIED.
10. ALL ADA CURB RAMPS SHALL HAVE DETECTABLE WARNING MATS IN ACCORDANCE WITH ADA GUIDELINES.
11. IN ADDITION TO TYPICAL DESIGN STANDARDS, THE CONSTRUCTION GATE/FENCE SUPPORT SYSTEM (POSTS, UPRIGHTS, RODS, WALLS, TIES, FOUNDATIONS, ETC) SHALL BE DESIGNED FOR A LATERAL WIND PRESSURE WITH THE FENCE ASSUMED TO BE SOLID I.E., WITHOUT PENETRATIONS, CONTRACTOR SHALL SUBMIT CALCULATIONS STAMPED BY A MA REGISTERED PROFESSIONAL ENGINEER DEMONSTRATING THE DESIGN TO BE IN COMPLIANCE WITH ALL LOGS NOTED AND THE STATE BUILDING CODE.
12. THE USE OF CONSTRUCTION MACHINERY IS RESTRICTED TO THE HOURS BETWEEN 7:00 AM AND 7:00 PM, MONDAY THROUGH SATURDAY, AND TO THE HOURS BETWEEN 12:00 NOON AND 7:00 PM ON SUNDAYS AS REQUIRED IN THE TOWN OF WESTWOOD GENERAL BYLAWS, ARTICLE 10, SECTION 24.
13. CONSTRUCTION DUMPSTERS AND PORTABLE TOILETS USED ON THE SITE MUST BE COMPANIES LICENSED TO THE TOWN OF WESTWOOD BOARD OF HEALTH.
14. CONSTRUCTION SEQUENCE WILL GENERALLY CONSIST OF THE FOLLOWING PHASES:
 - CONSTRUCTION OF THE TEMPORARY GRAVEL LOT.
 - DEERFIELD AVENUE ROADWAY CONSTRUCTION AND GIRL SCOUT HOUSE DEMOLITION.
 - NEW TOWN HALL PARKING AND CONCRETE RAMP CONSTRUCTION.
 COORDINATE WITH THE OWNER FOR PHASING SCHEDULING AND ESTABLISHMENT OF LIMITS OF WORK AT EACH PHASE.
15. THE TOWN HALL AND POLICE STATION SHALL REMAIN ACTIVE AT ALL TIMES DURING CONSTRUCTION. COORDINATE ALL WORK THAT WILL DISRUPT REGULAR OPERATIONS WITH THE OWNER ONE WEEK IN ADVANCE. NO INTERRUPTIONS TO UTILITY SERVICE TO THE POLICE STATION OR TOWN HALL SHALL BE PERMITTED.

DEMOLITION NOTES

1. ALL DEMOLITION SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF WORK.
2. PAVEMENT DEMOLITION SHALL BE SAW CUT AND DISPOSED OF PROPERLY.
3. ALL UTILITIES REMOVED FROM THE SITE SHALL BE CUT AND CAPPED IN ACCORDANCE WITH THE PLANS.
4. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE, GENERAL, AND UTILITY DRAWINGS.
5. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE SOILS TO THE LIMITS SATISFACTORY TO THE ENGINEER.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COPY OF PEST INSPECTION AND ASBESTOS SURVEY IN COMPLIANCE WITH DEP TO THE WESTWOOD BOARD OF HEALTH PRIOR TO DEMOLITION.

EROSION AND SEDIMENTATION CONTROL NOTES

1. THIS WORK IS SUBJECT TO A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) CONSTRUCTION GENERAL PERMIT (CGP). THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT WITH THE EPA, PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO THE START OF CONSTRUCTION, CONDUCTING THE REQUIRED SITE INSPECTIONS, MAINTAINING THE SWPPP PER THE CGP AND FILING A NOTICE OF TERMINATION WITH THE EPA AFTER SITE STABILIZATION REQUIREMENTS HAVE BEEN MET.
2. THIS WORK IS SUBJECT TO AN ORDER OF CONDITIONS (OOC) WITH THE TOWN OF WESTWOOD CONSERVATION COMMISSION AND IS TO BE CONSIDERED A PART OF THESE DOCUMENTS. THE CONTRACTOR SHALL OBTAIN A COPY OF THE OOC, AND BECOME FAMILIAR WITH IT, AND BE RESPONSIBLE FOR MEETING ALL OF THE CONDITIONS.
3. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR ENGINEER.
4. THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURBS MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY UTILITY CONNECTIONS.
5. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES.
6. ANY DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO STRAWBALE ENCLOSURES OR SEDIMENTATION BAGS.
7. CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE REGULATIONS.
8. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF COMPLETION OF WORK IN THAT AREA.
9. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF FINAL PROJECT.
10. THE CONTRACTOR SHALL MAINTAIN SURFACE DRAINAGE DURING CONSTRUCTION. STORMWATER SHALL BE MAINTAINED AWAY FROM WORK SITES AREAS OF EROSION.
11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING NECESSARY TEMPORARY EROSION CONTROL MEASURES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING OR INSTALLING ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AS SHOWN ON THESE PLANS AND SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD.
13. TEMPORARY DIVERSION SWALES SHALL BE PROVIDED AS NECESSARY TO DIRECT RUNOFF TO THE SEDIMENT BASINS DURING CONSTRUCTION.
14. CONSTRUCTION EXIT PROTECTION SHALL BE PROVIDED AT ALL POINTS OF EGRESS OR INGRESS AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS AND INTO THE REST OF THE SITE.
15. EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THESE PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
16. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
17. THE CONTRACTOR SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE STRAW BALES OR ONE THIRD THE HEIGHT OF SILT FENCE. MATERIAL COLLECTED FROM THE SILTATION BARRIERS SHALL BE STORED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
18. INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
19. REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. IT IS INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
20. CATCH BASINS AND STORM DRAIN INLETS SHALL BE PROTECTED WITH INLET PROTECTION WITHIN LIMITS OF DISTURBANCE.
21. THE CONTRACTOR SHALL NOT REMOVE ANY SILT SOCKS OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
22. LOCATION OF EQUIPMENT STORAGE, MAINTENANCE, AND REFUELING AREAS SHALL BE AS INDICATED IN THE ORDER OF CONDITIONS ISSUED BY THE WESTWOOD CONSERVATION COMMISSION.
23. SOILS AND OTHER MATERIALS SHALL BE STOCKPILED IN LOCATIONS AS RESTRICTED BY THE ORDER OF CONDITIONS ISSUED BY THE WESTWOOD CONSERVATION COMMISSION. ALL STOCKPILES MUST BE MAINTAINED IN A STABILIZED CONDITION WITH EROSION CONTROLS IN PLACE.
24. DRAINAGE FEATURES SHALL BE CLEARED OF SEDIMENT FOLLOWING CONSTRUCTION COMPLETION.

GRADING AND UTILITY NOTES

1. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS, UNLESS OTHERWISE DIRECTED.
2. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
3. ALL EXISTING AND PROPOSED UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE OF THIS CONTRACT. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE PROPOSED FINAL GRADES.
4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
6. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.
7. ALL WATER SERVICE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DEEDHAM-WESTWOOD WATER DISTRICT (DWWD) RULES AND REGULATIONS. COORDINATE WITH DWWD PRIOR TO START OF WORK.
8. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
9. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
10. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
11. SITE GRADES SHALL CONFORM WITH ADA AND MAAB REQUIREMENTS.
12. ALL TRANSITIONS BETWEEN GROUND COVERING MATERIALS SHALL BE SMOOTH AND MEET 521 CMR 20.10 REQUIREMENTS.
13. CONTRACTOR IS REQUIRED TO APPLY FOR, OBTAIN, AND PAY ALL FEES FOR PERMITS ASSOCIATED WITH CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:
 - WESTWOOD DPW APPLICATION FOR SEWER CONNECTION
 - WESTWOOD STREET OPENING AND TRENCH PERMIT
 - DEEDHAM-WESTWOOD WATER DISTRICT TAPPING PERMIT
14. CONTRACTOR IS RESPONSIBLE FOR COMPLETING, PAYING FEES, AND EXECUTING THE FIRE AND DOMESTIC SERVICE APPLICATION WITH THE DEEDHAM WESTWOOD WATER DISTRICT.

LAYOUT NOTES

1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ACCESSIBLE RAMPS SHALL BE PER THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY AND MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) GUIDELINES AND INCLUDE DETECTABLE WARNING MATS.
4. AUTOCAD PLANS OR ADDITIONAL COORDINATES CAN BE PROVIDED AFTER THE AWARD OF THE BID UPON REQUEST.
5. GRANITE BOUNDS SHALL BE OF SOUND GRANITE, THE TOP AND THE FACE PARALLEL AND THE FRONT AND BACK SHALL BE STRAIGHT SPLIT, THE TOP SHALL BE SIX (6) INCHES SQUARE AND SHALL HAVE A DRILL HOLE IN THE CENTER ONE AND ONE-HALF (1 1/2) INCHES IN DEPTH AND ONE-HALF (1/2) INCH IN DIAMETER, WITH THE BOTTOM SOMEWHAT FLARED. THEY SHALL BE FOUR (4) FEET IN LENGTH AND SET FLUSH WITH FINISH GRADE. THE FINAL LOCATION OF THE GRANITE BOUNDS ARE TO BE COORDINATED WITH DEPARTMENT OF PUBLIC WORKS PRIOR TO INSTALLATION.

EXISTING LEGEND

⊙	SEWER MANHOLE
⊕	DRAIN MANHOLE
⊖	ELECTRIC MANHOLE
⊗	TELEPHONE MANHOLE
⊘	CABLE TV MANHOLE
⊙	HYDRANT
⊙	WATER SHUT OFF
⊙	GAS SHUT OFF
○FP	FLAG POLE
⊙FA	FIRE ALARM
○RD	ROOF DRAIN
⊙	UTILITY POLE W/ LIGHT
⊙	GAS METER
⊙	ELECTRIC METER
⊙	AIR CONDITIONING UNIT
⊙	TRASH RECEPTACLE
⊙	HANDICAP PARKING SPACE
⊙	WETLAND FLAG
⊙	DECIDUOUS TREE
⊙	BUSH
⊙	CONIFEROUS TREE
⊙	IRRIGATION CONTROL VALVE
⊙	CURB RETURN
⊙	CATCH BASIN
⊙	TRAFFIC SIGNAL
⊙	LIGHT POLE
⊙	ELECTRIC HANDHOLE
⊙	BOLLARD
⊙	SIGN
⊙	OBSERVATION WELL
⊙	BIT. CONC. BERM
⊙	CONCRETE CURB
⊙	TEMPORARY BENCH MARK
⊙	VERTICAL GRANITE CURB
⊙	BITUMINOUS CURB
⊙	CONCRETE
⊙	TOP OF CURB
⊙	BOTTOM OF CURB
⊙	INVERT ELEVATION
⊙	CENTERLINE OF TROUGH
⊙	SQ. FT. SQUARE FEET
⊙	RIM ELEVATION
⊙	BITUMINOUS BERM
⊙	CONCRETE CURB
⊙	TOP OF WALL
⊙	TOP OF DEBRIS
⊙	WIRE FENCE
⊙	SEWER
⊙	DRAIN
⊙	WATER
⊙	GAS
⊙	ELECTRIC
⊙	TELEPHONE
⊙	CABLE TELEVISION
⊙	STREET LIGHTING

PROPOSED LEGEND

---	LIMIT OF WORK
---	SAWCUT
---	EROSION CONTROL (SILT SOCK)
---	CHAIN LINK FENCE
---	CURBING(TYPE)
---	CONTOUR
---	SPOT ELEVATION
---	SIGN
---	HANDICAP SYMBOL
---	CEMENT CONCRETE
---	BITUMINOUS CONCRETE PAVEMENT
---	TREE LINE
⊙	DMH DRAIN MANHOLE
⊙	SMH SEWER MANHOLE
⊙	CB CATCH BASIN
⊙	WATER QUALITY STRUCTURE
⊙	WATER GATE
⊙	DRAIN LINE
⊙	GAS LINE
⊙	SEWER LINE
⊙	WATER LINE
⊙	RETAINING WALL
⊙	FENCE
⊙	WOOD GUARD RAIL
⊙	TREE PROTECTION
⊙	INLET PROTECTION
⊙	DETECTABLE WARNING PANEL
⊙	RIP-RAP
⊙	PATCH, SEAL AND OVERLAY
⊙	GRANITE BOUND TO BE SET

ABBREVIATIONS

⊙	ATC	= ADJUST TO GRADE
⊙	BB	= BITUMINOUS BERM (SEE DETAIL)
⊙	BCP	= BITUMINOUS CONCRETE PAVEMENT (SEE DETAIL)
⊙	BCW (X)	= BITUMINOUS CONCRETE SIDEWALK AND WIDTH (SEE DETAIL)
⊙	CB-#	= PROPOSED CATCH BASIN NUMBER
⊙	CM	= SAWCUT AND MATCH EXISTING GRADES
⊙	CW (X)	= CEMENT CONCRETE SIDEWALK AND WIDTH
⊙	DAM	= DIRECTIONAL ARROW MARKING (SEE DETAIL)
⊙	DMH-# (X)	= PROPOSED DRAIN MANHOLE NUMBER AND DIAMETER
⊙	GC	= VERTICAL GRANITE CURB (SEE DETAIL)
⊙	GCF	= GRANITE CURB FLUSH (SEE DETAIL)
⊙	GTC (X)	= GRANITE TRANSITION CURB AND LENGTH (SEE DETAIL)
⊙	IP	= INLET PROTECTION (SEE DETAIL)
⊙	LA	= LANDSCAPED AREA (SEE LANDSCAPE PLANS)
⊙	LS	= LOAM AND SEED (SEE LANDSCAPE PLANS)
⊙	OCS-1	= OUTLET CONTROL STRUCTURE NUMBER
⊙	R&D	= REMOVE AND DISPOSE
⊙	R&R	= REMOVE AND RELOCATE
⊙	R&S	= REMOVE AND STOCKPILE
⊙	RPM	= REMOVE PAVEMENT MARKINGS
⊙	SCW	= STRIPED CROSS WALK (SEE DETAIL)
⊙	SHP	= HANDICAP EPOXY RESIN PAVEMENT MARKING
⊙	SW	= 4" SOLID WHITE EPOXY RESIN PAVEMENT MARKING
⊙	SW12	= 12" SOLID WHITE EPOXY RESIN PAVEMENT MARKING
⊙	WQS-1	= WATER QUALITY STRUCTURE NUMBER
⊙	107.2.1	= WHEELCHAIR RAMP ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL, MASSDOT CONSTRUCTION STANDARDS DETAIL
⊙	107.6.0	= WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF PEDESTRIAN TRAVEL, MASSDOT CONSTRUCTION STANDARDS DETAIL
⊙	107.6.5	= DETECTABLE WARNING PANEL FOR WHEELCHAIR RAMPS AND STANDARD RAMP TECHNOLOGY, MASSDOT CONSTRUCTION STANDARDS DETAIL
⊙	206.8.0	= REINFORCED CONCRETE PIPE FLARED ENDS, MASSDOT CONSTRUCTION STANDARDS DETAIL

PARE CORPORATION
 ENGINEERS - ARCHITECTS - PLANNERS
 1000 WASHINGTON STREET, SUITE 100
 FRODOBRO, MA 02035
 508-548-1755
 www.parecorp.com

DW
 DORR & WHITTIER
 ARCHITECTS, INC.
 1000 WASHINGTON STREET, SUITE 100
 FRODOBRO, MA 02035
 508-548-1755
 www.dorrwhittier.com

Project No. **15007.00**

DEERFIELD AVE EXTENSION
 590 HIGH STREET
 WESTWOOD, MA, 02090

100% BID DOCUMENTS

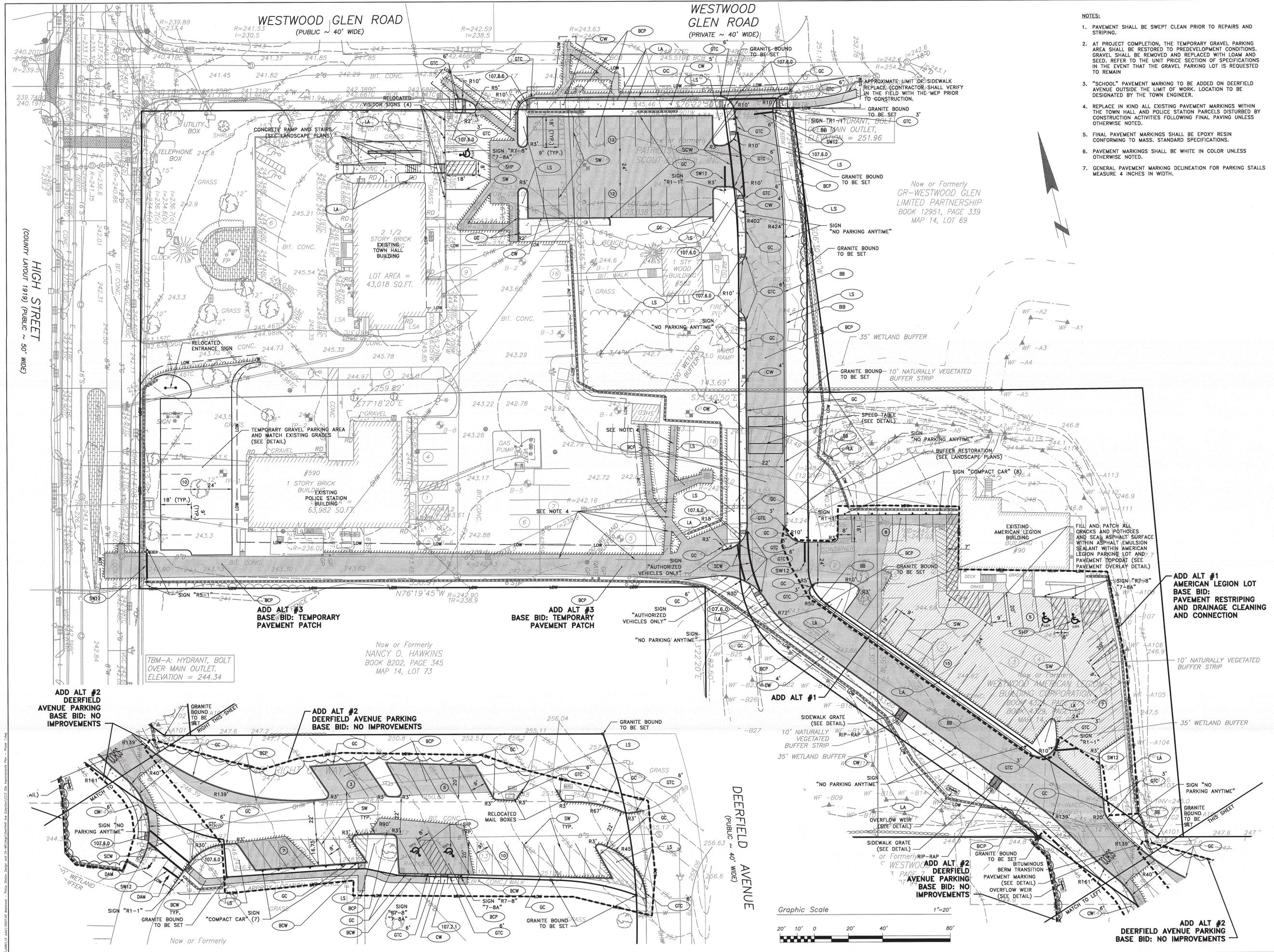
REVISION	Date
ADDENDUM 3	10/22/15

DATE:	10/01/15	SCALE:	AS NOTED
DRAWN BY:	AWB	CHK'D BY:	MJG

SHEET TITLE:
LEGEND AND GENERAL NOTES

SHEET #:
C0.1

Z:\0001\15_0001\15007.00_Rev001.dwg - PARE Corporation - 10/22/2015 10:00:00 AM - 10/22/2015 10:00:00 AM - 10/22/2015 10:00:00 AM - 10/22/2015 10:00:00 AM



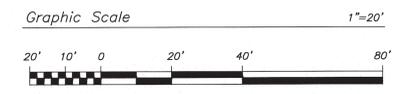
- NOTES:
1. PAVEMENT SHALL BE SWEEP CLEAN PRIOR TO REPAIRS AND STRIPING.
 2. AT PROJECT COMPLETION, THE TEMPORARY GRAVEL PARKING AREA SHALL BE RESTORED TO PREDEVELOPMENT CONDITIONS. GRAVEL SHALL BE REMOVED AND REPLACED WITH LOAM AND SEED. REFER TO THE UNIT PRICE SECTION OF SPECIFICATIONS IN THE EVENT THAT THE GRAVEL PARKING LOT IS REQUESTED TO REMAIN.
 3. "SCHOOL" PAVEMENT MARKING TO BE ADDED ON DEERFIELD AVENUE OUTSIDE THE LIMIT OF WORK. LOCATION TO BE DESIGNATED BY THE TOWN ENGINEER.
 4. REPLACE IN KIND ALL EXISTING PAVEMENT MARKINGS WITHIN THE TOWN HALL AND POLICE STATION PARCELS DISTURBED BY CONSTRUCTION ACTIVITIES FOLLOWING FINAL PAVING UNLESS OTHERWISE NOTED.
 5. FINAL PAVEMENT MARKINGS SHALL BE EPOXY RESIN CONFORMING TO MASS. STANDARD SPECIFICATIONS.
 6. PAVEMENT MARKINGS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED.
 7. GENERAL PAVEMENT MARKING DELINEATION FOR PARKING STALLS MEASURE 4 INCHES IN WIDTH.

Now or Formerly
GR-WESTWOOD GLEN
LIMITED PARTNERSHIP
BOOK 12951, PAGE 339
MAP 14, LOT 69

Now or Formerly
NANCY O. HAWKINS
BOOK 8202, PAGE 345
MAP 14, LOT 73

HIGH STREET
(COUNT LAYOUT 1919) (PUBLIC ~ 50' WIDE)

DEERFIELD AVENUE
(PUBLIC ~ 40' WIDE)



FARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
10 LINCOLN ROAD, SUITE 103
WESTWOOD, MA 02090
PHONE: 508-943-1255
FAX: 508-943-1256
WWW.FARECORP.COM

Project No. 15007.00

DEERFIELD AVE EXTENSION
500 HIGH STREET
WESTWOOD, MA 02090

100% BID DOCUMENTS

REVISION:	Date:
ADDENDUM 3	10/22/15

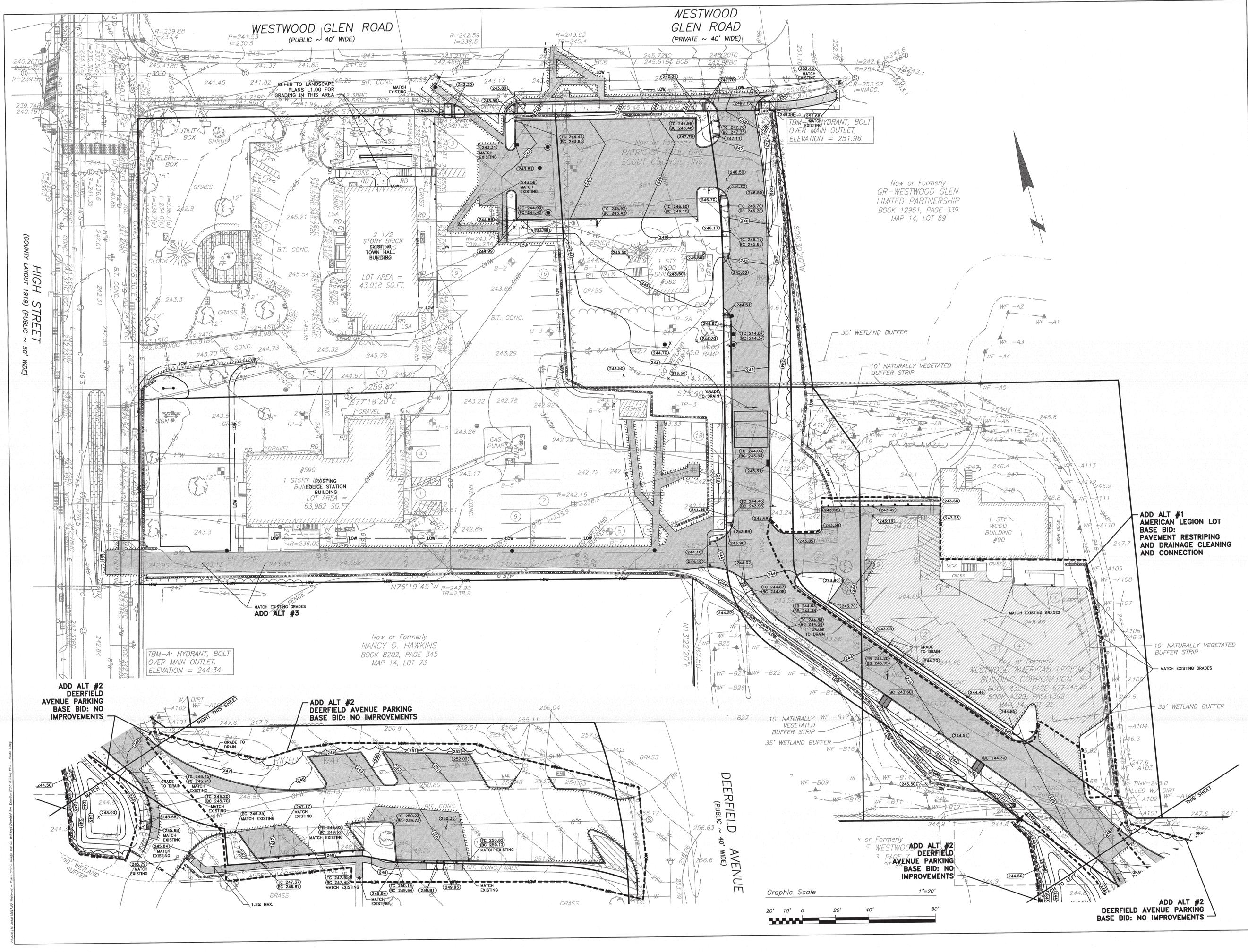
DATE: 10/01/15 SCALE: 1"=20'

DRAWN BY: AWB CHKD BY: MJG

SHEET TITLE: SITE IMPROVEMENTS PLAN

SHEET #:

C2.0



WESTWOOD GLEN ROAD
(PUBLIC ~ 40' WIDE)

WESTWOOD GLEN ROAD
(PRIVATE ~ 40' WIDE)

HIGH STREET
(COUNTY LAYOUT 1919) (PUBLIC ~ 50' WIDE)

PARE CORPORATION
ENGINEERS ARCHITECTS
10 LINCOLN ROAD SUITE 100
FOXBORO, MA 01525
508-946-1725

D&W
DOONE & WHITTIER
ARCHITECTS, INC.

Project No.
15007.00

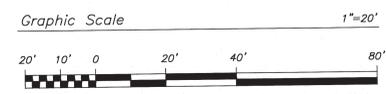
DEERFIELD AVE EXTENSION
590 HIGH STREET
WESTWOOD, MA. 02090

100% BID DOCUMENTS

REVISION:	Date:
ADDENDUM 3	10/22/15
DATE:	SCALE:
10/01/15	1"=20'
DRAWN BY:	CHKD BY:
AWB	MJG

SHEET TITLE:
GRADING PLAN

SHEET #:
C3.0



ADD ALT #2
DEERFIELD AVENUE PARKING
BASE BID: NO IMPROVEMENTS

ADD ALT #1
AMERICAN LEGION LOT
BASE BID:
PAVEMENT RESTRIPING
AND DRAINAGE CLEANING
AND CONNECTION

ADD ALT #2
DEERFIELD AVENUE PARKING
BASE BID: NO IMPROVEMENTS

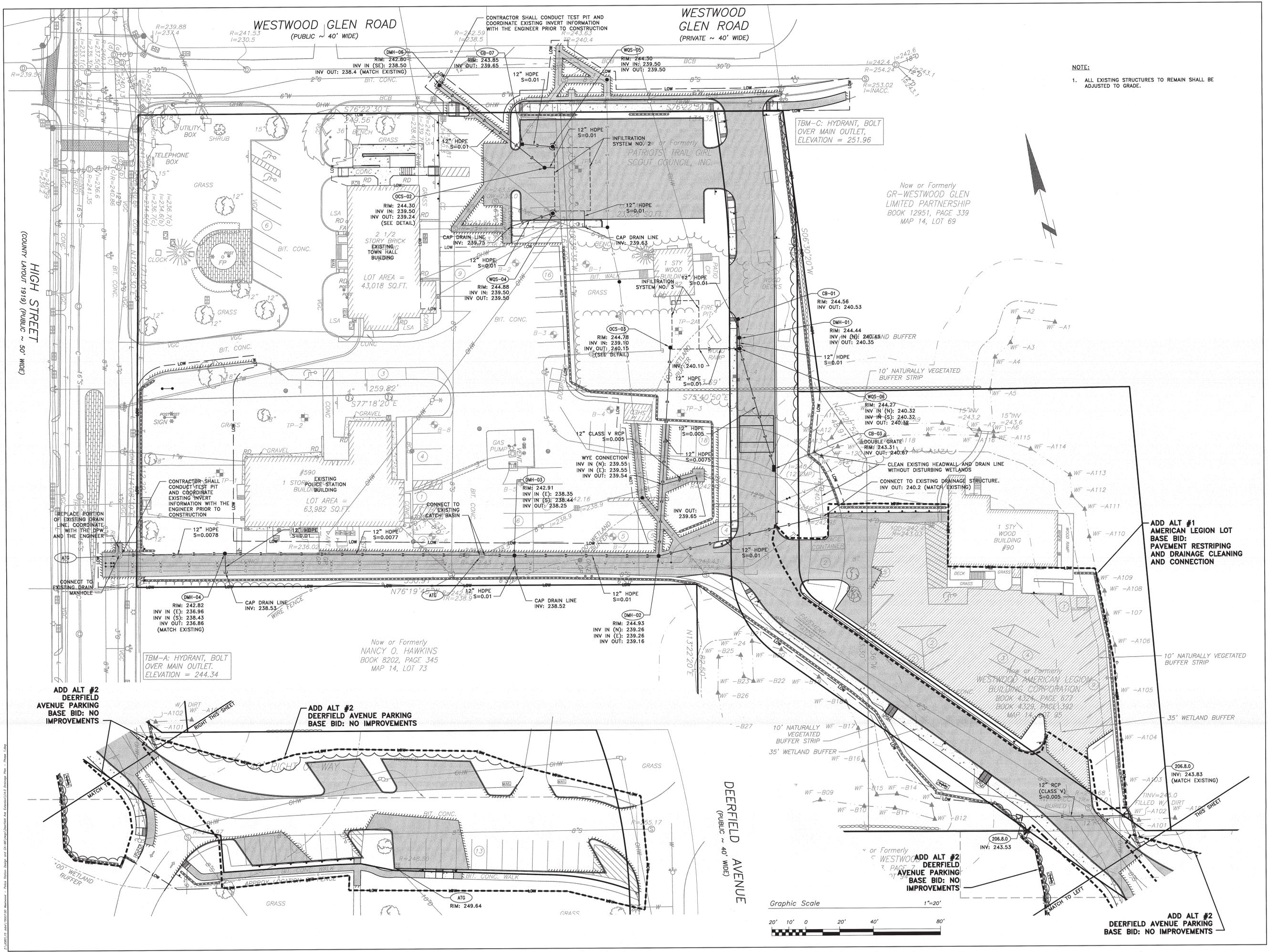
ADD ALT #2
DEERFIELD AVENUE PARKING
BASE BID: NO IMPROVEMENTS

TBM-A: HYDRANT, BOLT
OVER MAIN OUTLET.
ELEVATION = 244.34

Now or Formerly
NANCY O. HAWKINS
BOOK 8202, PAGE 345
MAP 14, LOT 73

Now or Formerly
GR-WESTWOOD GLEN
LIMITED PARTNERSHIP
BOOK 12951, PAGE 339
MAP 14, LOT 69

COPYRIGHT © 2015 by Pare & Whittier Architects, Inc. (P&W).
These documents are the property of Pare & Whittier Architects, Inc. and are not to be
reproduced, stored in a retrieval system, or transmitted in any form or by any means,
electronic, mechanical, photocopying, recording, or by any information storage and
retrieval system, without the prior written permission of Pare & Whittier Architects, Inc.



NOTE:
1. ALL EXISTING STRUCTURES TO REMAIN SHALL BE ADJUSTED TO GRADE.

Now or Formerly
GR-WESTWOOD GLEN
LIMITED PARTNERSHIP
BOOK 12951, PAGE 339
MAP 14, LOT 69

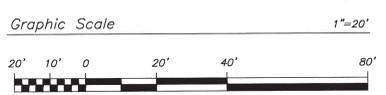
ADD ALT #1
AMERICAN LEGION LOT
BASE BID:
PAVEMENT RESTRIPING
AND DRAINAGE CLEANING
AND CONNECTION

ADD ALT #2
DEERFIELD
AVENUE PARKING
BASE BID: NO
IMPROVEMENTS

ADD ALT #2
DEERFIELD AVENUE PARKING
BASE BID: NO IMPROVEMENTS

ADD ALT #2
DEERFIELD
AVENUE PARKING
BASE BID: NO
IMPROVEMENTS

ADD ALT #2
DEERFIELD AVENUE PARKING
BASE BID: NO IMPROVEMENTS



FARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
101 FOREST ROAD, SUITE 100
FOXBORO, MA 01938
508-943-1755
www.farecorp.com

NEWBURYPORT, MA 01960
201 WASHINGTON STREET
F - 978-499-2944
B - 978-499-2945
BOSTON, MA 02111
F - 802-683-1535
www.dpw.com

Project No.
15007.00

DEERFIELD AVE EXTENSION
590 HIGH STREET
WESTWOOD, MA 02090

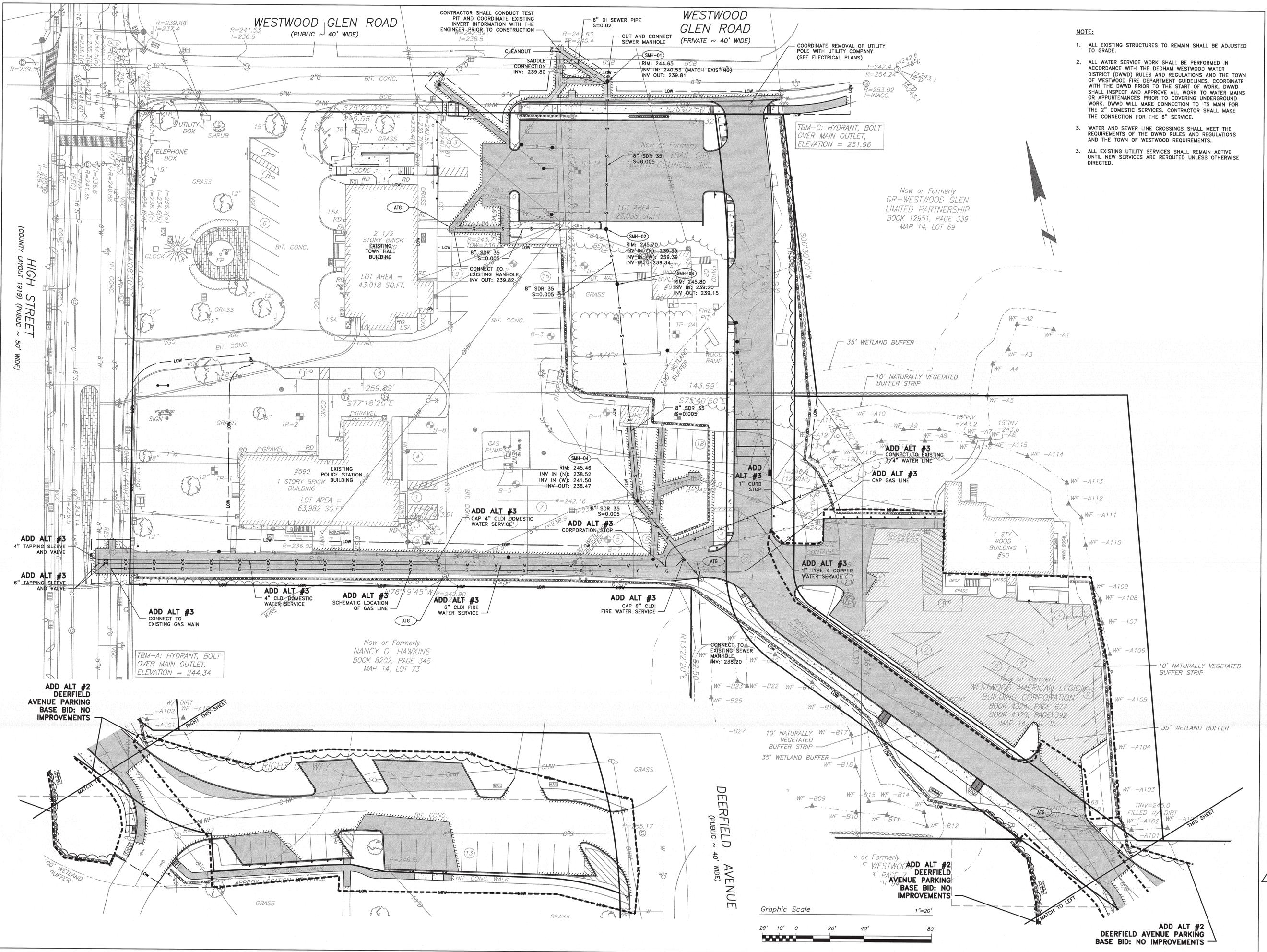
100% BID DOCUMENTS

REVISION	Date
ADDENDUM 3	10/22/15

DATE: 10/01/15 SCALE: 1"=20'
DRAWN BY: AWB CHKD BY: M/J

SHEET TITLE:
DRAINAGE PLAN

SHEET #:
C4.0



- NOTE:**
1. ALL EXISTING STRUCTURES TO REMAIN SHALL BE ADJUSTED TO GRADE.
 2. ALL WATER SERVICE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DEDHAM WESTWOOD WATER DISTRICT (DWWD) RULES AND REGULATIONS AND THE TOWN OF WESTWOOD FIRE DEPARTMENT GUIDELINES. COORDINATE WITH THE DWWD PRIOR TO THE START OF WORK. DWWD SHALL INSPECT AND APPROVE ALL WORK TO WATER MAINS OR APPURTENANCES PRIOR TO COVERING UNDERGROUND WORK. DWWD WILL MAKE CONNECTION TO ITS MAIN FOR THE 2" DOMESTIC SERVICES. CONTRACTOR SHALL MAKE THE CONNECTION FOR THE 6" SERVICE.
 3. WATER AND SEWER LINE CROSSINGS SHALL MEET THE REQUIREMENTS OF THE DWWD RULES AND REGULATIONS AND THE TOWN OF WESTWOOD REQUIREMENTS.
 3. ALL EXISTING UTILITY SERVICES SHALL REMAIN ACTIVE UNTIL NEW SERVICES ARE REROUTED UNLESS OTHERWISE DIRECTED.

PARE CORPORATION
 ENGINEERS ARCHITECTS
 100 MAIN STREET, SUITE 100
 WESTWOOD, MA 02090
 TEL: 508-545-1255
 FAX: 508-545-1256
 WWW.PARECORP.COM

D&W
 DORR & WHITTIER
 ARCHITECTS, INC.
 100 MAIN STREET, SUITE 100
 WESTWOOD, MA 02090
 TEL: 508-545-1255
 FAX: 508-545-1256
 WWW.DORRWHITTIER.COM

Project No. 15007.00

DEERFIELD AVE EXTENSION
 590 HIGH STREET
 WESTWOOD, MA. 02090

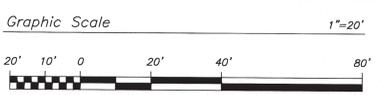
100% BID DOCUMENTS

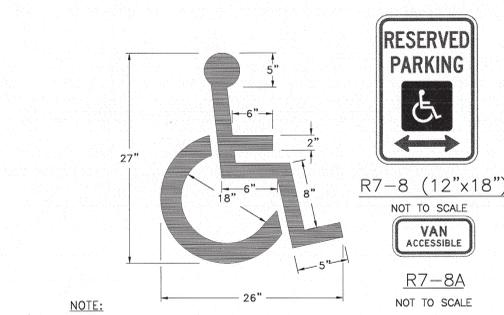
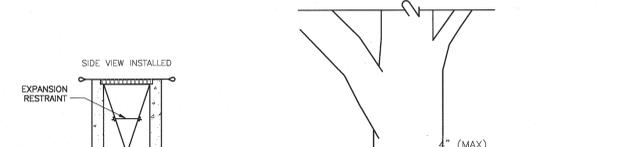
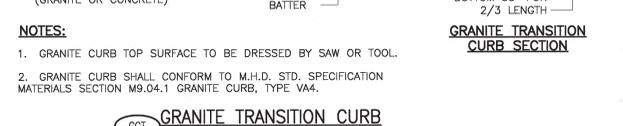
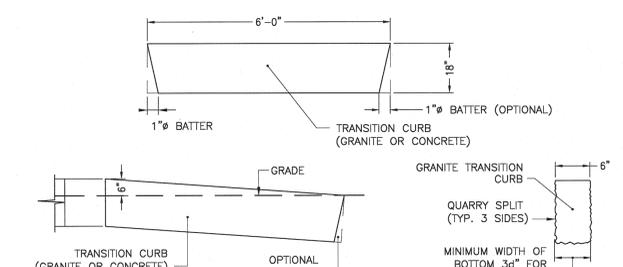
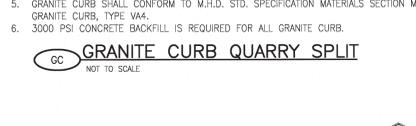
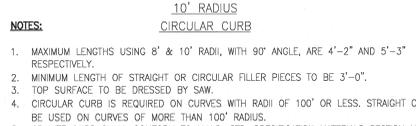
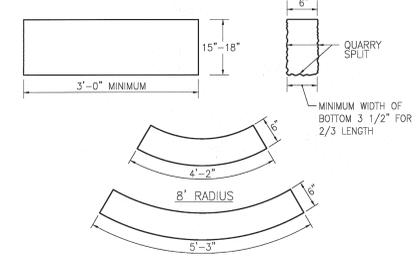
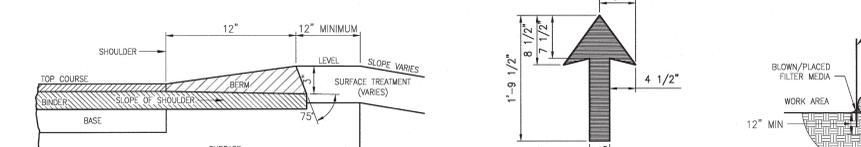
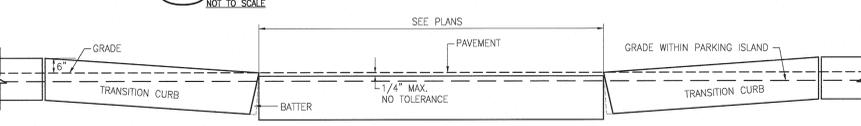
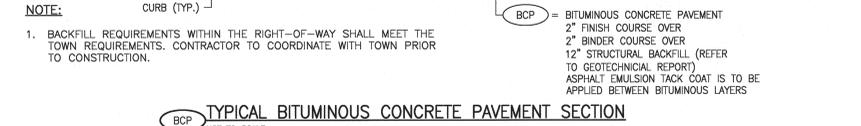
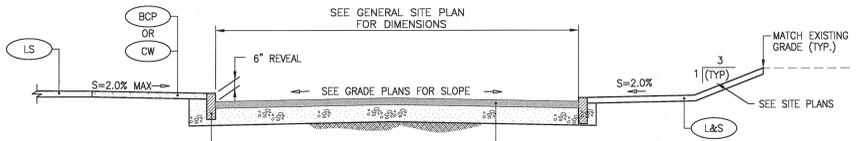
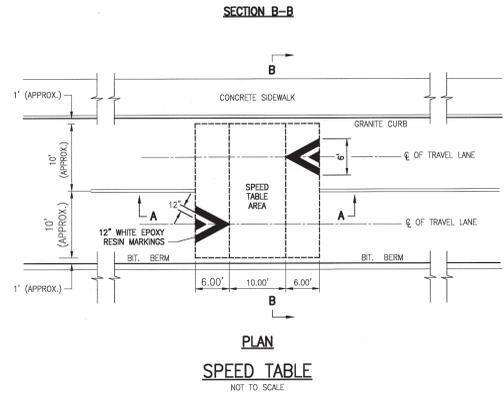
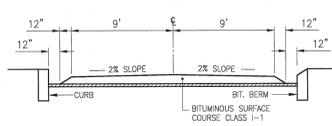
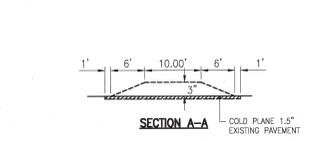
REVISION	Date
ADDENDUM 3	10/22/15

DATE: 10/01/15 SCALE: 1"=20'
 DRAWN BY: AWB CHK'D BY: MJG

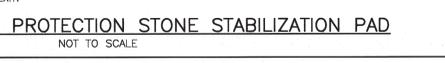
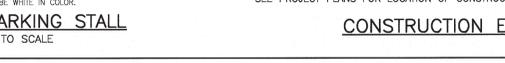
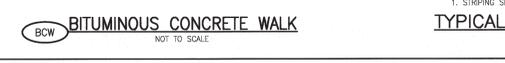
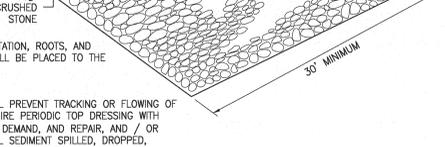
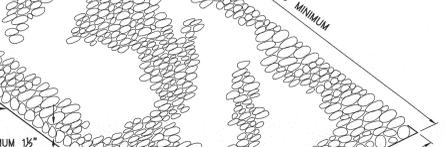
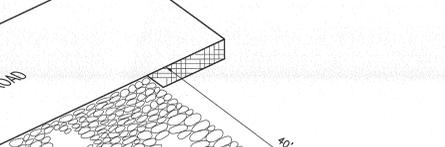
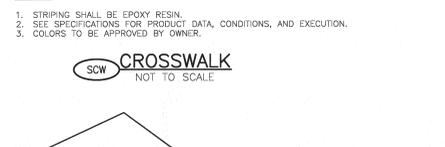
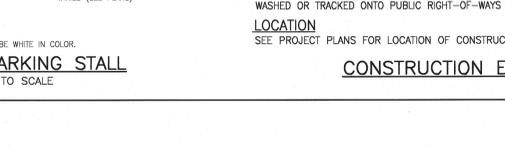
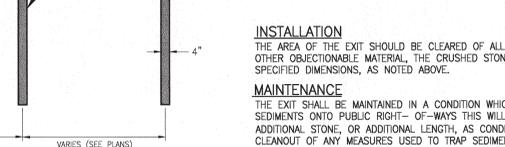
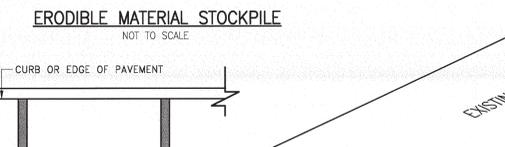
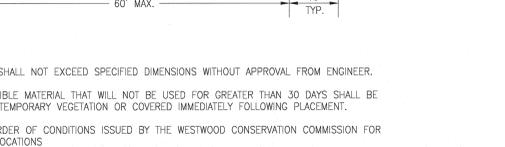
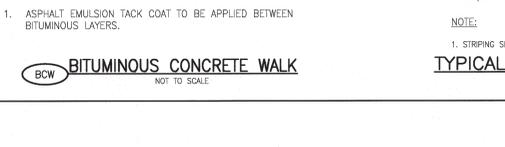
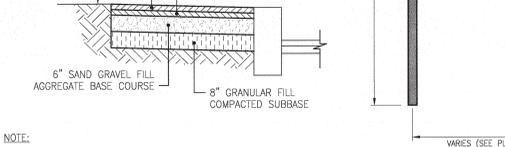
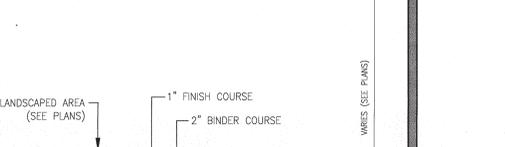
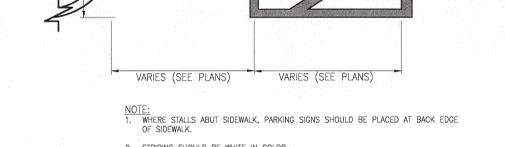
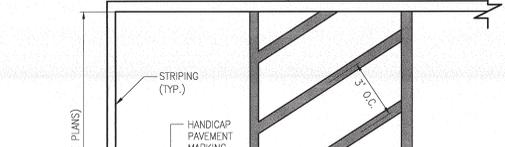
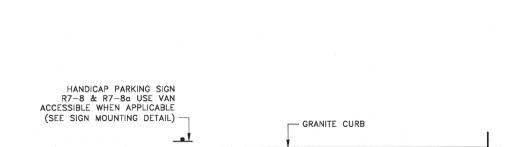
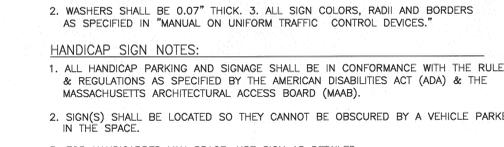
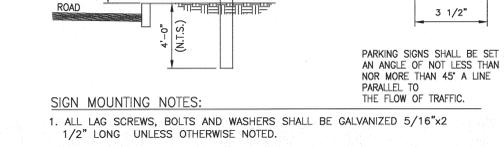
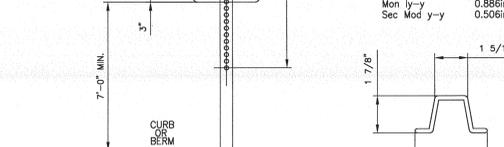
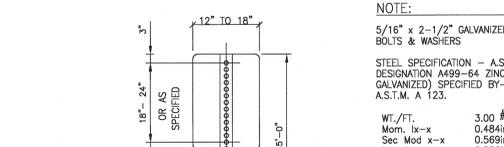
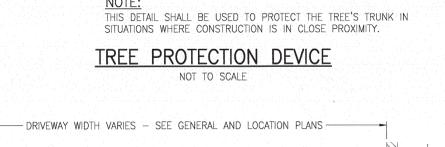
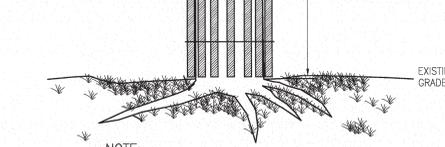
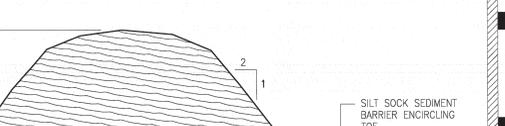
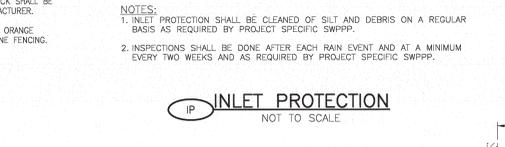
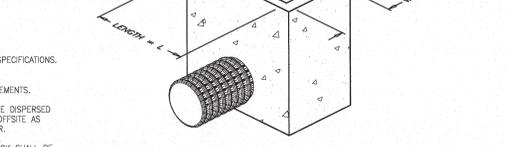
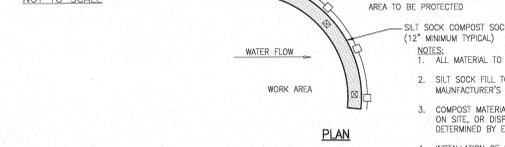
SHEET TITLE: **UTILITY PLAN**

SHEET # **C5.0**





NOTE: 1. ALL ACCESSIBLE PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF MAAB (521 CMR). 2. REFER TO SIGN MOUNTING DETAIL FOR ADDITIONAL COMMENTS.



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
100 HIGHLAND AVENUE
FOXBORO, MA 01535
508-543-1255

DW
DORR & WHITNEY, INC.
ARCHITECTS, INC.

Project No. 15007.00

DEERFIELD AVE EXTENSION
590 HIGH STREET
WESTWOOD, MA. 02090

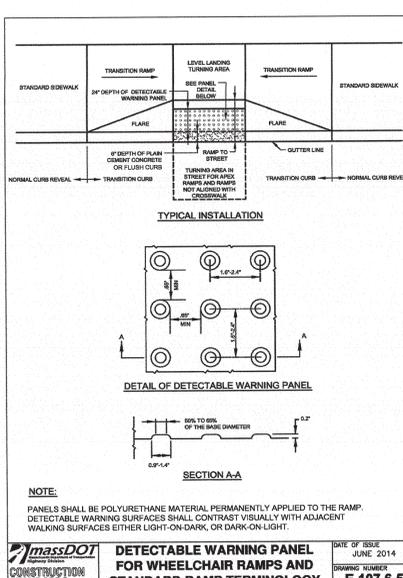
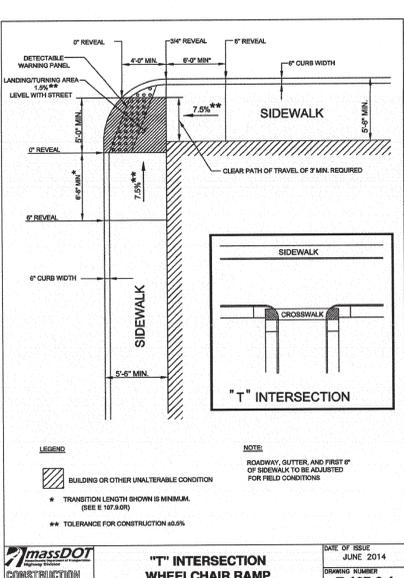
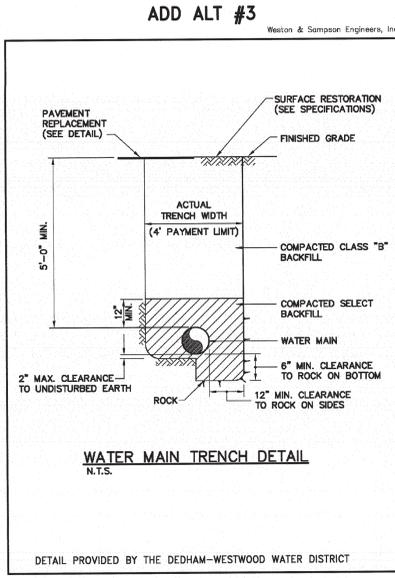
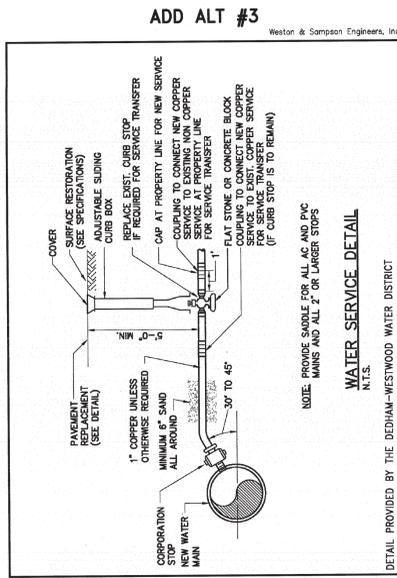
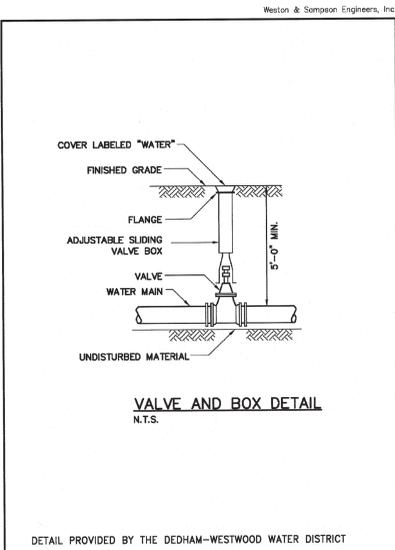
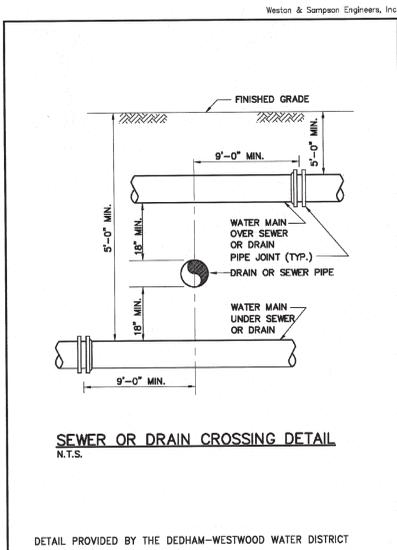
100% BID DOCUMENTS

REVISION:	Date:
ADDENDUM 3	10/22/15
DATE:	SCALE:
10/11/15	AS NOTED
DRAWN BY:	CHKD BY:
AWB	MJG

SHEET TITLE: SITE DETAILS 1

SHEET #:

C6.1



EROSION CONTROL

DURING A CONSTRUCTION PROJECT, SOIL EROSION CAN BE A MAJOR CONTRIBUTING FACTOR TO ENVIRONMENTAL POLLUTION. IN ORDER TO MINIMIZE THE EFFECT OF SEDIMENTATION, SCOUR, TURBULENCE, WASHOUTS, ETC. DURING CONSTRUCTION OPERATIONS, TEMPORARY, AND UNDER SOME CONDITIONS PERMANENT, CONTROLS MUST BE BUILT.

- SEDIMENTATION POOLS FOR THE PROTECTION OF RIVERS, LAKES, STREAMS AND PONDS
- TEMPORARY BERMS TO CONTROL HEAVY RUNOFF, THUS PREVENTING WASHOUTS
- DITCHES AT TOES OF SLOPES
- CHECK DAMS AT WATERWAY CROSSINGS
- FILTERS AT DRAIN INLETS
- ENERGY DISSIPATORS AT DRAIN OUTLETS (I.E. SPLASH PADS, BULK STONE DEPOSITS, ETC.) AT CULVERT ENDS.

IN MOST SITUATIONS THE TYPE AND LOCATION OF POLLUTION CONTROL DEVICES CAN BE DETERMINED DURING THE DESIGN STAGE OF THE PROJECT. HOWEVER, FIELD CONDITIONS MAY WARRANT ADDITIONAL MEASURES AND CHANGES DURING THE CONSTRUCTION PHASE.

MANY TYPES OF PROTECTIVE SCHEMES AND DESIGNS CAN BE ADAPTED TO MEET A PARTICULAR CONDITION. IN SOME CASES CERTAIN MEASURES MAY HAVE TO BE INNOVATED. GENERALLY, THE VARIOUS SCHEMES DETAILED IN THE BOOKLET ENTITLED "TEMPORARY EROSION AND POLLUTION CONTROL MEASURES" PREPARED BY THE FEDERAL HIGHWAY ADMINISTRATION CAN BE APPLIED.

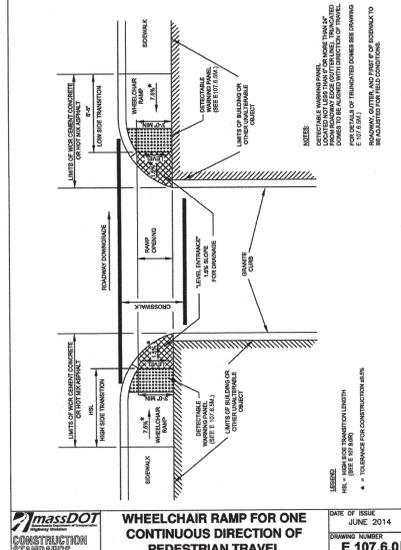


TABLE 1
REQUIRED LENGTH OF RESTRAINED JOINTS FROM FITTINGS (FEET)

PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	PLUG OR CAP	TEE (BRANCH)
6"	25 (20.5)	13.5 (10.5)	5 (6)	2.5 (3)	4.5 (6.4)	3.4 (5.0)
8"	33 (26.5)	17.5 (13.5)	6.5 (8)	3 (4)	5.5 (8.2)	4.7 (7.0)
10"	40 (32.5)	21.5 (16.5)	8 (10)	4 (5)	6.7 (10.0)	5.6 (8.0)
12"	47 (38.5)	25.5 (19.5)	9.5 (12.5)	4.5 (5.5)	7.9 (11.0)	7.0 (10.0)
15"	58 (47.5)	31.5 (24.5)	12 (16.5)	6 (7)	10.1 (15.0)	9.2 (13.0)
20"	72 (58.5)	39 (30)	14.5 (17)	7 (8.5)	13.3 (18.4)	11.4 (17)
24"	84 (100)	45 (41)	16.5 (20)	8 (10)	14.4 (21.6)	13.4 (20.0)
30"	100 (120)	54 (50)	20 (24)	10 (12)	17.4 (26)	16.5 (24)

NOTE: 1. RESTRAINED LENGTHS LISTED IN PARENTHESES ARE FOR PIPE WRAPPED IN POLYETHYLENE. THE OTHER ASSOCIATED LENGTHS ARE FOR PLAIN UNWRAPPED DUCTILE IRON PIPE.
2. THE CONTRACTOR SHALL USE THIS TABLE IN CONJUNCTION WITH THE APPROPRIATE PIPE SPECIFICATION SECTION.
3. TABLE BASED ON 150 PSI TEST PRESSURE.

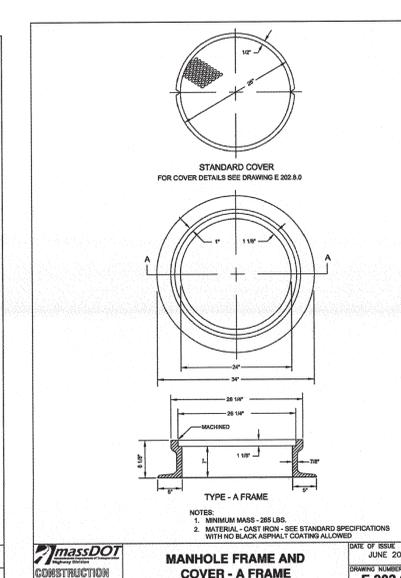
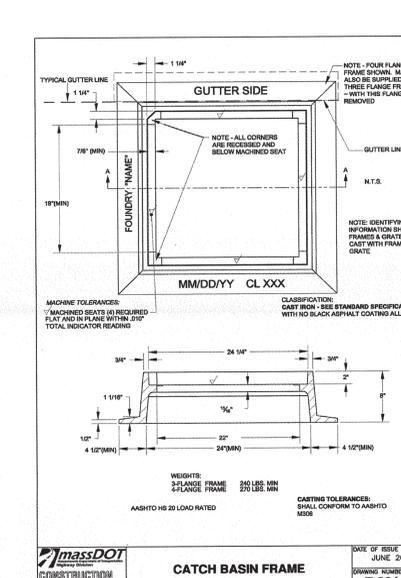
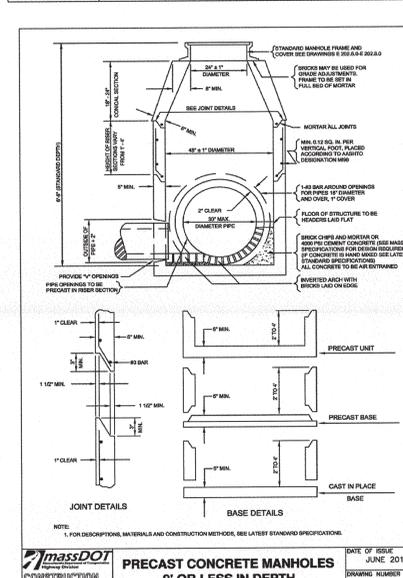
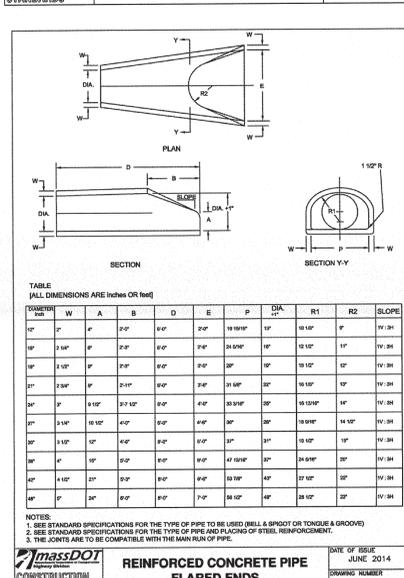
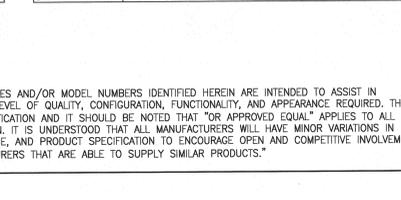
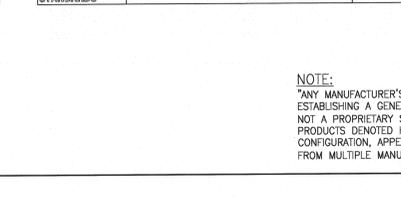
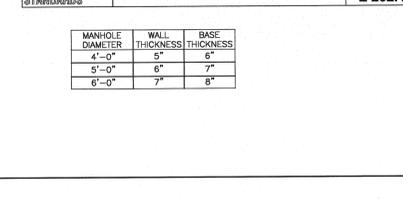
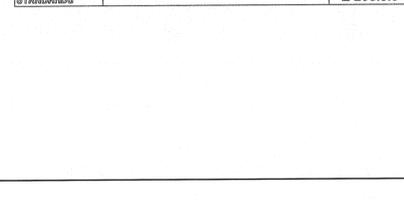


TABLE 1
REQUIRED LENGTH OF RESTRAINED JOINTS FROM FITTINGS (FEET)

PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	PLUG OR CAP	TEE (BRANCH)
6"	25 (20.5)	13.5 (10.5)	5 (6)	2.5 (3)	4.5 (6.4)	3.4 (5.0)
8"	33 (26.5)	17.5 (13.5)	6.5 (8)	3 (4)	5.5 (8.2)	4.7 (7.0)
10"	40 (32.5)	21.5 (16.5)	8 (10)	4 (5)	6.7 (10.0)	5.6 (8.0)
12"	47 (38.5)	25.5 (19.5)	9.5 (12.5)	4.5 (5.5)	7.9 (11.0)	7.0 (10.0)
15"	58 (47.5)	31.5 (24.5)	12 (16.5)	6 (7)	10.1 (15.0)	9.2 (13.0)
20"	72 (58.5)	39 (30)	14.5 (17)	7 (8.5)	13.3 (18.4)	11.4 (17)
24"	84 (100)	45 (41)	16.5 (20)	8 (10)	14.4 (21.6)	13.4 (20.0)
30"	100 (120)	54 (50)	20 (24)	10 (12)	17.4 (26)	16.5 (24)

NOTE: 1. RESTRAINED LENGTHS LISTED IN PARENTHESES ARE FOR PIPE WRAPPED IN POLYETHYLENE. THE OTHER ASSOCIATED LENGTHS ARE FOR PLAIN UNWRAPPED DUCTILE IRON PIPE.
2. THE CONTRACTOR SHALL USE THIS TABLE IN CONJUNCTION WITH THE APPROPRIATE PIPE SPECIFICATION SECTION.
3. TABLE BASED ON 150 PSI TEST PRESSURE.



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
101 DEERFIELD AVE
FOXBORO, MA 01935
508-541-1755

D&W
DOBBE & WHITTIER ARCHITECTS, INC.

Project No. 15007.00

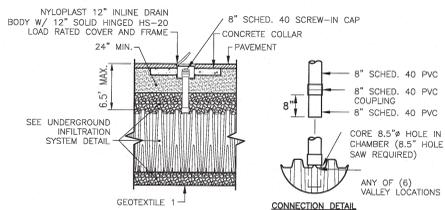
DEERFIELD AVE EXTENSION
590 HIGH STREET
WESTWOOD, MA. 02090

100% BID DOCUMENTS

REVISION: ADDENDUM 3
DATE: 10/22/15

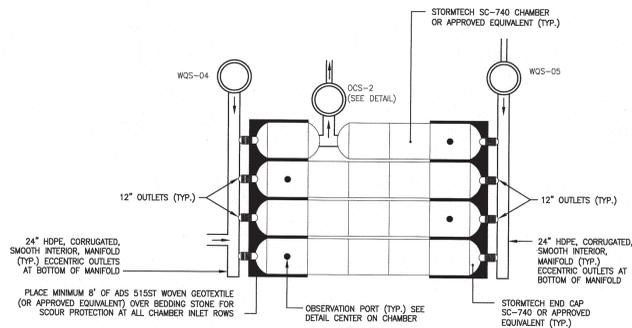
DATE: 10/01/15
SCALE: AS NOTED
DRAWN BY: AWB
CHKD BY: MJG

SHEET TITLE: SITE DETAILS 3
SHEET #: C6.3



- NOTES:**
1. ALL PVC FITTINGS ARE TO BE SOLVENT CEMENTED.
 2. SEE MANUFACTURER'S RECOMMENDATIONS FOR FURTHER DETAIL.
 3. SHALL BE DESIGNED TO WITHSTAND HS-20 LOAD RATING.

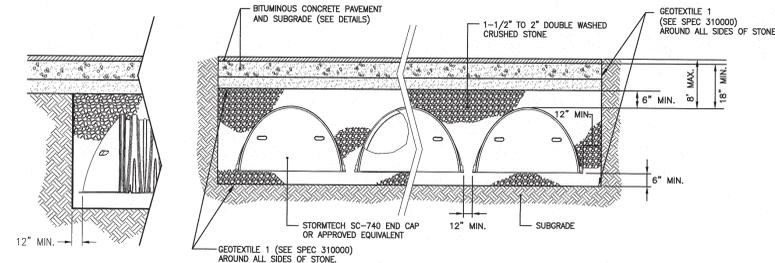
UNDERGROUND INFILTRATION SYSTEM INSPECTION PORT
NOT TO SCALE



SC-740 OR EQUIVALENT
4 ROWS, 5 CHAMBERS PER ROW (20 CHAMBERS TOTAL) 21'x38'
BOTTOM OF STONE ELEV. = 239.00'
BOTTOM OF CHAMBER ELEV. = 239.50'
STONE STORAGE VOLUME = 719.7 cf (40% VOIDS)
CHAMBER STORAGE VOLUME = 93.2 cf
TOTAL SYSTEM STORAGE (INCLUDING PERIMETER STONE) = 0.038 ACRE-FT

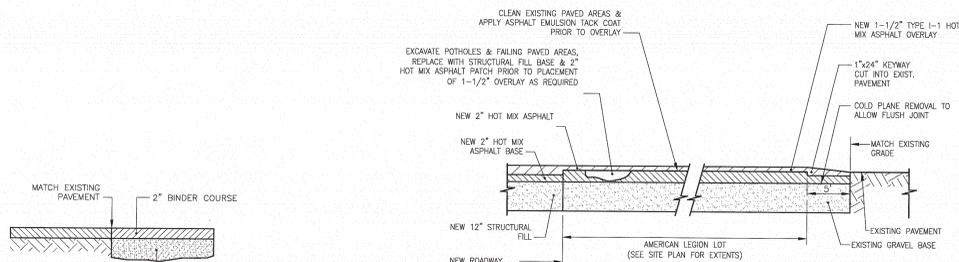
- NOTES:**
1. THE DETAIL PROVIDED IS FOR GENERAL REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER ON THE DESIGN AND SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
 2. THE SYSTEM SHALL BE REQUIRED TO WITHSTAND HS-20 LOAD RATING.

UNDERGROUND INFILTRATION SYSTEM NO. 2
NOT TO SCALE



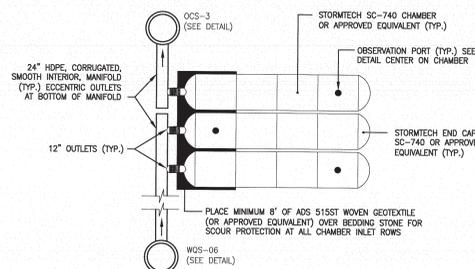
- NOTES:**
1. THE DETAIL PROVIDED IS FOR GENERAL REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER ON THE DESIGN AND SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
 2. THE SYSTEM SHALL BE REQUIRED TO WITHSTAND HS-20 LOAD RATING.

INFILTRATION SYSTEM TYPICAL CROSS SECTIONS
NOT TO SCALE



- NOTE:**
- EXISTING CRACKS WITH VEGETATION GROWING THROUGH THEM AND/OR >1" IN WIDTH SHOULD BE CUT OUT OF THE PAVEMENT REPLACING APPROXIMATELY ONE FOOT OF WIDTH SURROUNDING THE CRACK.
- CRACKS SHALL BE CLEANED OF DUST AND DEBRIS (VIA AIR BLASTING) TO A DEPTH OF AT LEAST TWICE THE CRACK WIDTH. CRACKS SHALL BE FILLED WITH HOT APPLIED BITUMINOUS CONCRETE CRACK SEALER (MASS. STATE STANDARD SPECIFICATION M3.05.4).

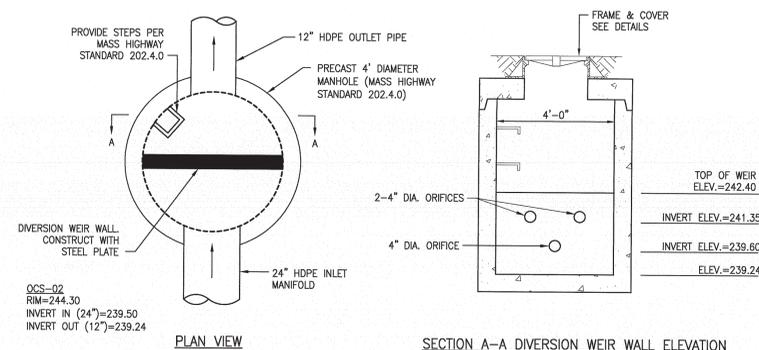
PAVEMENT OVERLAY
NOT TO SCALE



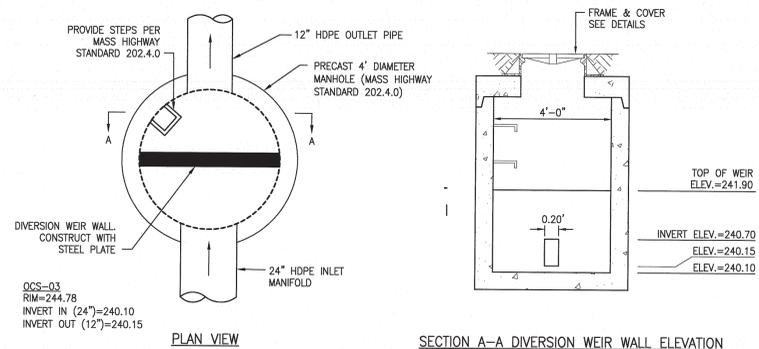
SC-740 OR EQUIVALENT
3 ROWS, 4 CHAMBERS PER ROW (12 CHAMBERS TOTAL) 16'x29'
BOTTOM OF STONE ELEV. = 239.60'
BOTTOM OF CHAMBER ELEV. = 240.10'
STONE STORAGE VOLUME = 457.9 cf (40% VOIDS)
CHAMBER STORAGE VOLUME = 59.8 cf
TOTAL SYSTEM STORAGE (INCLUDING PERIMETER STONE) = 0.023 ACRE-FT

- NOTES:**
1. THE DETAIL PROVIDED IS FOR GENERAL REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER ON THE DESIGN AND SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
 2. THE SYSTEM SHALL BE REQUIRED TO WITHSTAND HS-20 LOAD RATING.

UNDERGROUND INFILTRATION SYSTEM NO. 3
NOT TO SCALE



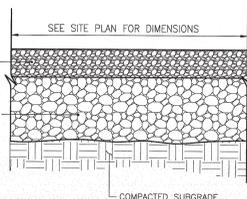
OCS-02 OUTLET CONTROL STRUCTURE
NOT TO SCALE



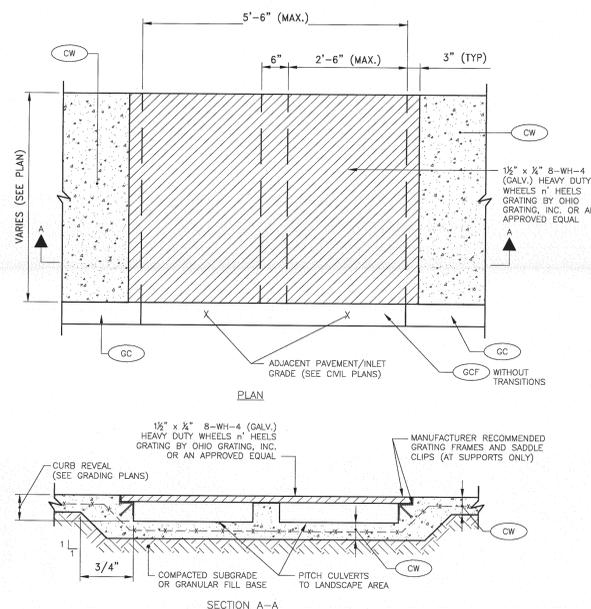
OCS-03 OUTLET CONTROL STRUCTURE
NOT TO SCALE

TEMPORARY BITUMINOUS CONCRETE PAVING PATCH
NOT TO SCALE

- NOTE:**
1. SEE PLANS FOR LOCATIONS.
 2. ALL TEMPORARY PAVING TO BE REMOVED AND DISPOSED UPON COMMENCEMENT OF CONSTRUCTION OF FINAL CONDITIONS AS INDICATED BY PHASING PLANS.

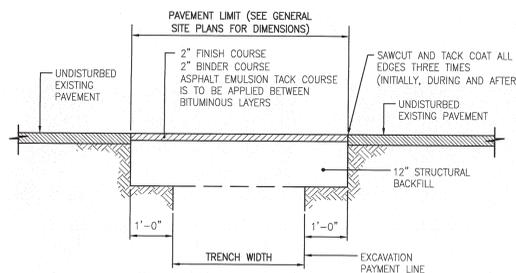


GRAVEL PARKING LOT
NOT TO SCALE

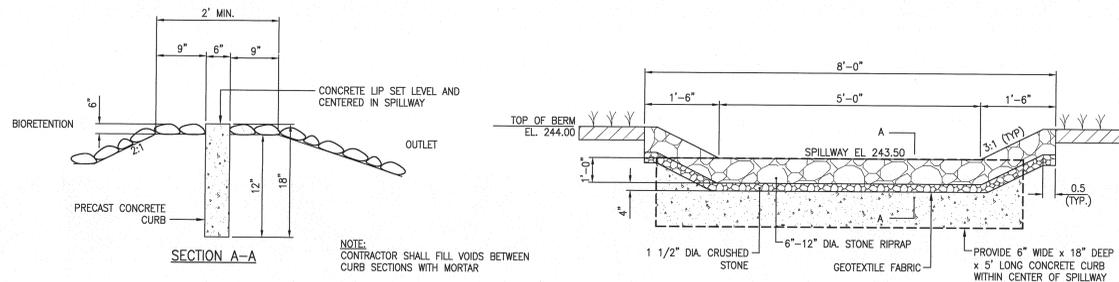


- NOTES:**
1. ALL GRATING SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS AS SPECIFIED BY THE AMERICAN DISABILITIES ACT (ADA) & THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB).

SIDEWALK GRATE
NOT TO SCALE



ADD ALT #3 PAVEMENT PATCH
NOT TO SCALE



OVERFLOW WEIR
NOT TO SCALE

- NOTE:**
- *ANY MANUFACTURER'S NAMES AND/OR MODEL NUMBERS IDENTIFIED HEREIN ARE INTENDED TO ASSIST IN ESTABLISHING A GENERAL LEVEL OF QUALITY, CONFIGURATION, FUNCTIONALITY, AND APPEARANCE REQUIRED. THIS IS NOT A PROPRIETARY SPECIFICATION AND IT SHOULD BE NOTED THAT "OR APPROVED EQUAL" APPLIES TO ALL PRODUCTS DENOTED HEREIN. IT IS UNDERSTOOD THAT ALL MANUFACTURERS WILL HAVE MINOR VARIATIONS IN CONFIGURATION, APPEARANCE, AND PRODUCT SPECIFICATION TO ENCOURAGE OPEN AND COMPETITIVE INVOLVEMENT FROM MULTIPLE MANUFACTURERS THAT ARE ABLE TO SUPPLY SIMILAR PRODUCTS.*



Project No. 15007.00

DEERFIELD AVE EXTENSION
590 HIGH STREET
WESTWOOD, MA. 02090

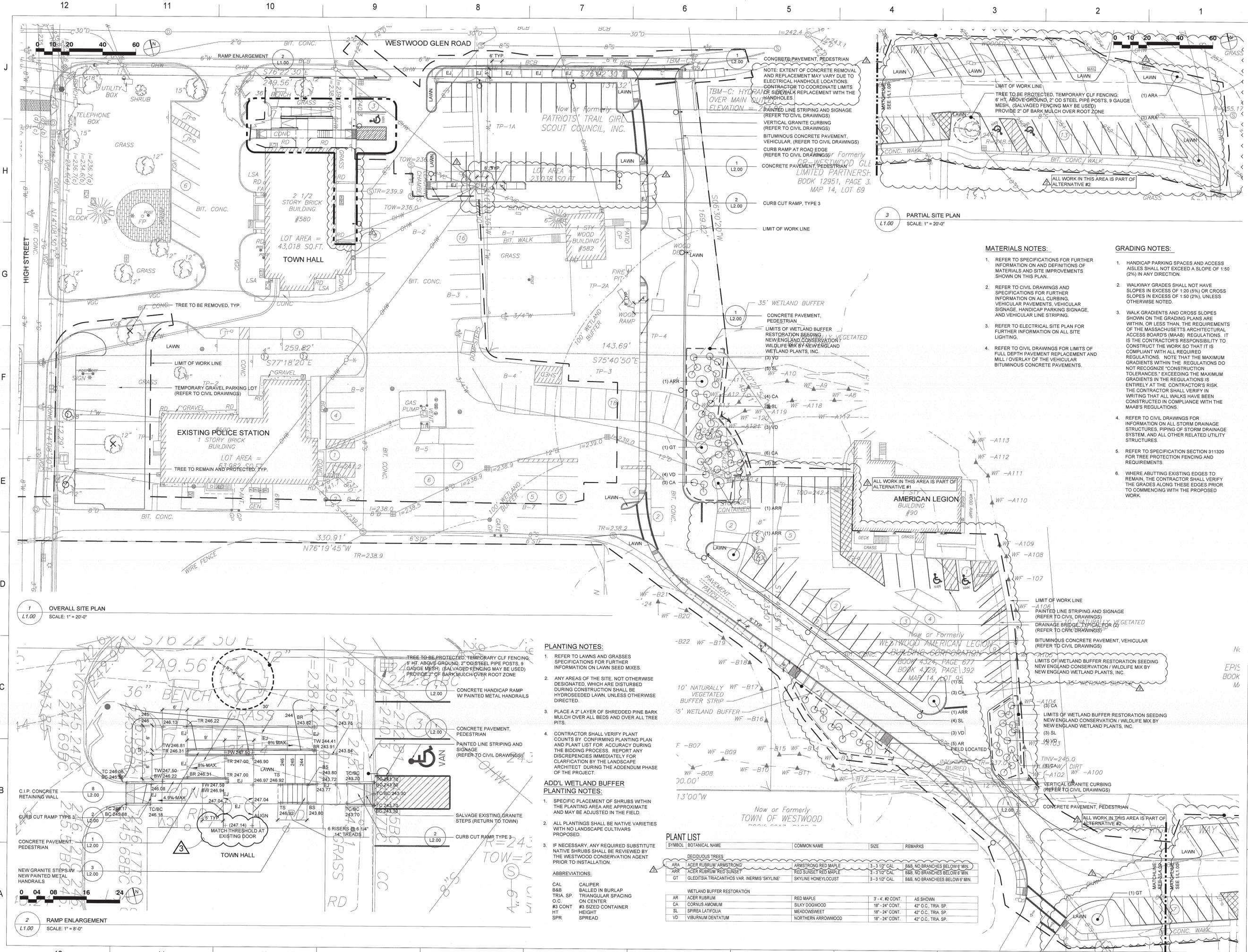
100% BID DOCUMENTS

REVISION:	Date:
ADDENDUM 3	10/22/15

DATE:	SCALE:
10/01/15	AS NOTED
DRAWN BY:	CHKD BY:
AWB	MJG

SHEET TITLE: SITE DETAILS 4

SHEET #:
C6.4



1 OVERALL SITE PLAN
SCALE: 1" = 20'-0"

2 RAMP ENLARGEMENT
SCALE: 1" = 8'-0"

3 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

PLANTING NOTES:

- REFER TO LAWNS AND GRASSES SPECIFICATIONS FOR FURTHER INFORMATION ON LAWN SEED MIXES.
- ANY AREAS OF THE SITE, NOT OTHERWISE DESIGNATED, WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE HYDROSEEDED LAWN, UNLESS OTHERWISE DIRECTED.
- PLACE A 2" LAYER OF SHREDDED PINE BARK MULCH OVER ALL BEDS AND OVER ALL TREE PITS.
- CONTRACTOR SHALL VERIFY PLANT COUNTS BY CONFIRMING PLANTING PLAN AND PLANT LIST FOR ACCURACY DURING THE BIDDING PROCESS. REPORT ANY DISCREPANCIES IMMEDIATELY FOR CLARIFICATION BY THE LANDSCAPE ARCHITECT DURING THE ADDENDUM PHASE OF THE PROJECT.

ADD'L WETLAND BUFFER PLANTING NOTES:

- SPECIFIC PLACEMENT OF SHRUBS WITHIN THE PLANTING AREA ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD.
- ALL PLANTINGS SHALL BE NATIVE VARIETIES WITH NO LANDSCAPE CULTIVARS PROPOSED.
- IF NECESSARY, ANY REQUIRED SUBSTITUTE NATIVE SHRUBS SHALL BE REVIEWED BY THE WESTWOOD CONSERVATION AGENT PRIOR TO INSTALLATION.

ABBREVIATIONS:

- CAL CALIPER
- B&B BALLED IN BURLAP
- TRIA SP. TRIANGULAR SPACING ON CENTER
- #3 CONT #3 SIZED CONTAINER
- HT HEIGHT
- SPR SPREAD

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
ARA	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	3-3 1/2" CAL	B&B, NO BRANCHES BELOW 6" MIN.
ARR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	3-3 1/2" CAL	B&B, NO BRANCHES BELOW 6" MIN.
GT	GLEDTISIA TRIACANTHOS VAR. INERMIS 'SKYLINE'	SKYLINE HONEYLOCUST	3-3 1/2" CAL	B&B, NO BRANCHES BELOW 6" MIN.
WETLAND BUFFER RESTORATION				
AR	ACER RUBRUM	RED MAPLE	3'-4', #2 CONT.	AS SHOWN
CA	CORUS AMOMIUM	SILKY DOGWOOD	18"-24" CONT.	42" O.C. TRIA SP.
SL	SPIREA LATIFOLIA	MEADOWSWERT	18"-24" CONT.	42" O.C. TRIA SP.
VD	VIBURNUM DENTATUM	NORTHERN ARROWWOOD	18"-24" CONT.	42" O.C. TRIA SP.

MATERIALS NOTES:

- REFER TO SPECIFICATIONS FOR FURTHER INFORMATION ON ALL STORM DRAINAGE STRUCTURES, PIPING OF STORM DRAINAGE SYSTEM, AND ALL OTHER RELATED UTILITY STRUCTURES.
- REFER TO CIVIL DRAWINGS FOR LIMITS OF FULL DEPTH PAVEMENT REPLACEMENT AND MILL/OVERLAY OF THE VEHICULAR BITUMINOUS CONCRETE PAVEMENTS.

GRADING NOTES:

- HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1:50 (2%) IN ANY DIRECTION.
- WALKWAY GRADES SHALL NOT HAVE SLOPES IN EXCESS OF 1:20 (5%) OR CROSS SLOPES IN EXCESS OF 1:50 (2%), UNLESS OTHERWISE NOTED.
- WALK GRADIENTS AND CROSS SLOPES SHOWN ON THE GRADING PLANS ARE WITHIN OR LESS THAN THE REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD'S (MAAB) REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE WORK SO THAT IT IS COMPLIANT WITH ALL RELATED REGULATIONS. NOTE THAT THE MAXIMUM GRADIENTS WITHIN THE REGULATIONS DO NOT RECOGNIZE "CONSTRUCTION TOLERANCES" EXCEEDING THE MAXIMUM GRADIENTS IN THE REGULATIONS IS ENTIRELY AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY IN WRITING THAT ALL WALKS HAVE BEEN CONSTRUCTED IN COMPLIANCE WITH THE MAAB'S REGULATIONS.
- REFER TO CIVIL DRAWINGS FOR INFORMATION ON ALL STORM DRAINAGE STRUCTURES, PIPING OF STORM DRAINAGE SYSTEM, AND ALL OTHER RELATED UTILITY STRUCTURES.
- REFER TO SPECIFICATION SECTION 311320 FOR TREE PROTECTION FENCING AND REQUIREMENTS.
- WHERE ABUTTING EXISTING EDGES TO REMAIN, THE CONTRACTOR SHALL VERIFY THE GRADES ALONG THESE EDGES PRIOR TO COMMENCING WITH THE PROPOSED WORK.

BrownSardina
Brown Sardina, Inc.
24 Roland Street Boston, MA 02129
Tel: 617.482.4703
www.brownsardina.com



Project No. 14-0676

DEERFIELD AVE EXTENSION
590 HIGH STREET
WESTWOOD, MA. 02090

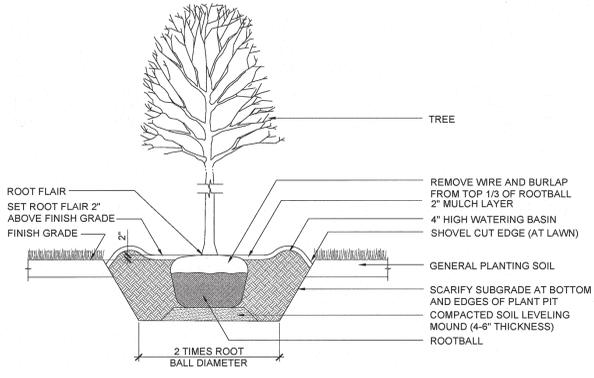
100% BID DOCUMENTS

REVISION: 10/1/15
Date: 10/22/15

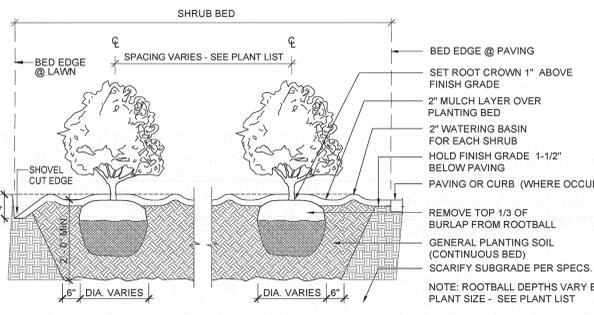
DATE: 10/1/15
SCALE: 1" = 20'-0"
DRAWN BY: BB
CHKD BY: WB

SHEET TITLE:
MATERIALS AND PLANTING PLAN

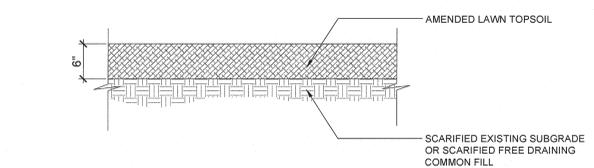
SHEET #:
L1.00



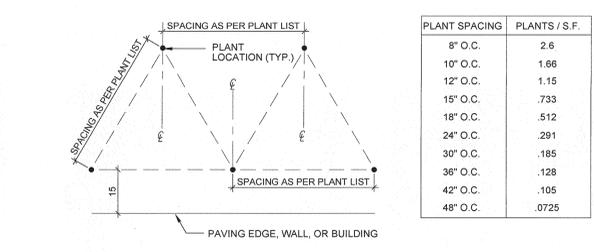
9 DECIDUOUS TREE PLANTING
SCALE: NO SCALE



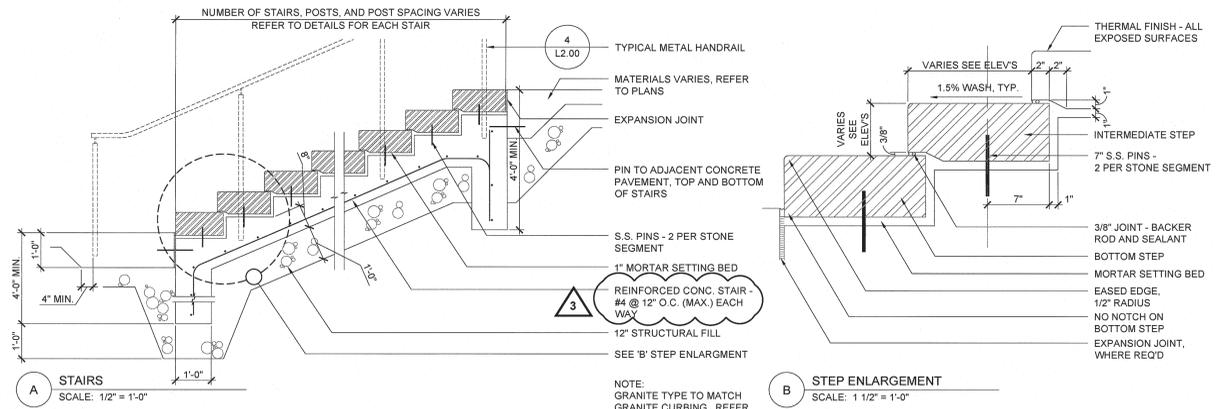
10 SHRUB PLANTING
SCALE: NO SCALE



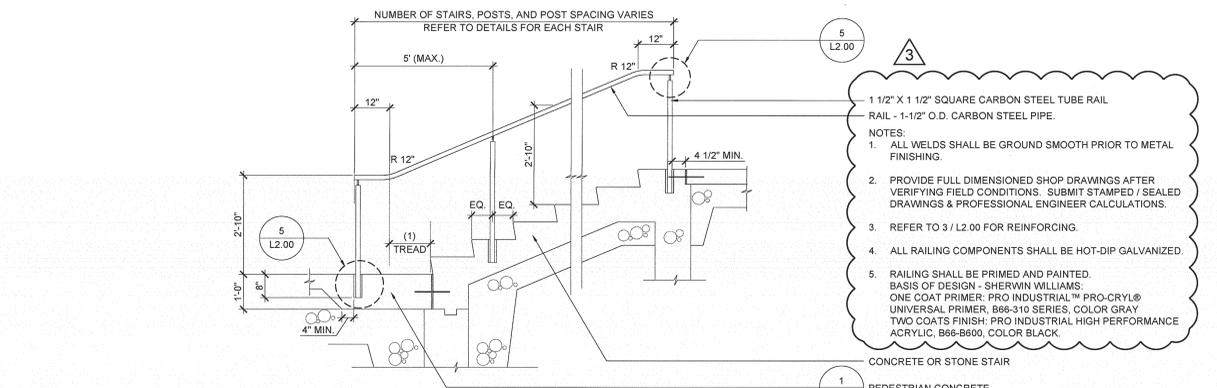
11 SOIL PREPARATION AT LAWN AREAS
SCALE: 1" = 1'-0"



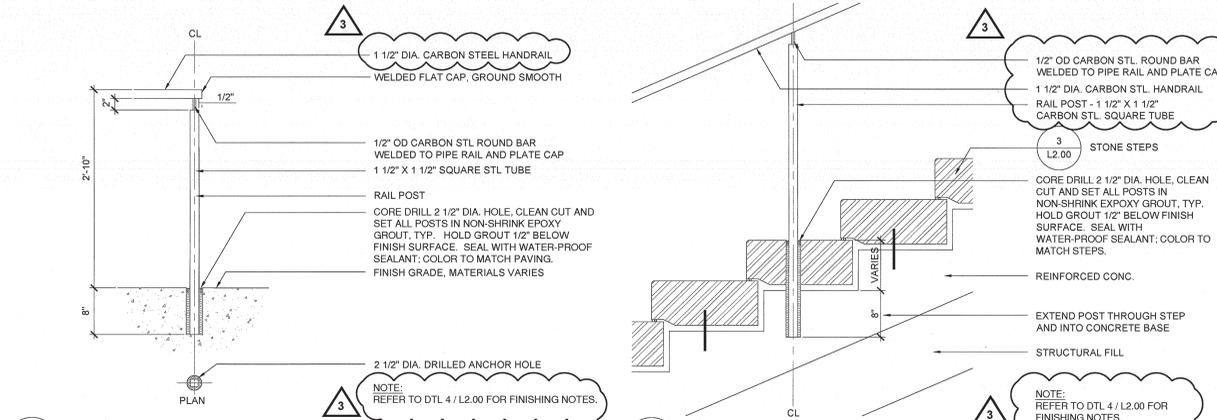
12 PLANTING SPACING DIAGRAM
SCALE: NO SCALE



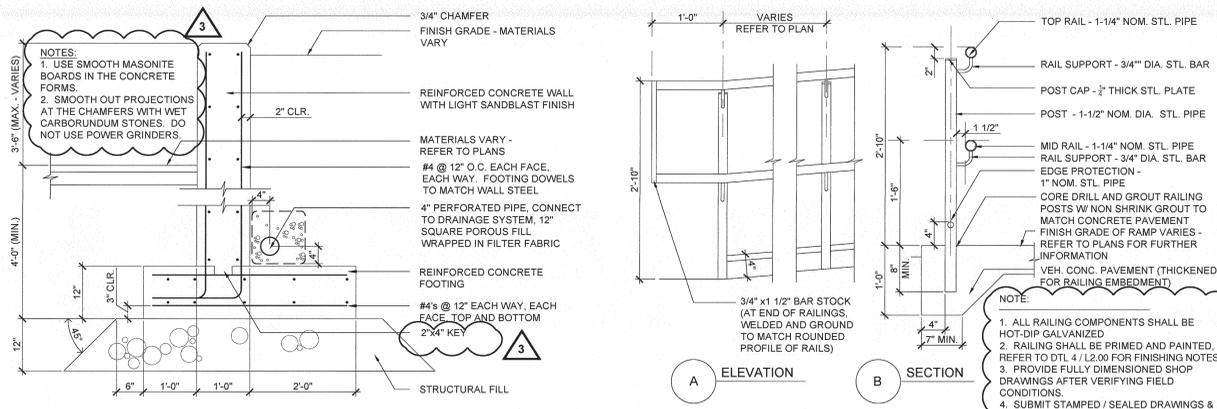
3 STONE STAIRS
SCALE: AS SHOWN



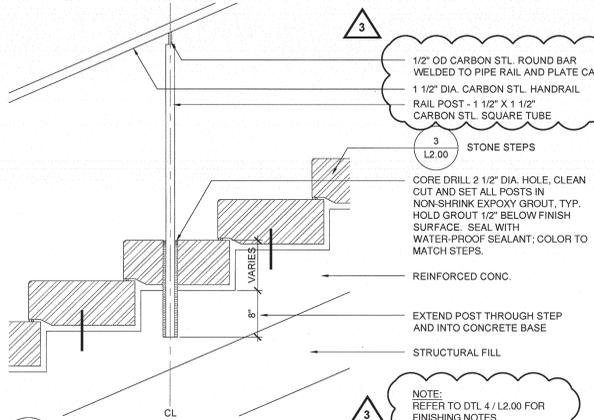
4 TYPICAL METAL HANDRAIL
SCALE: 1/2" = 1'-0"



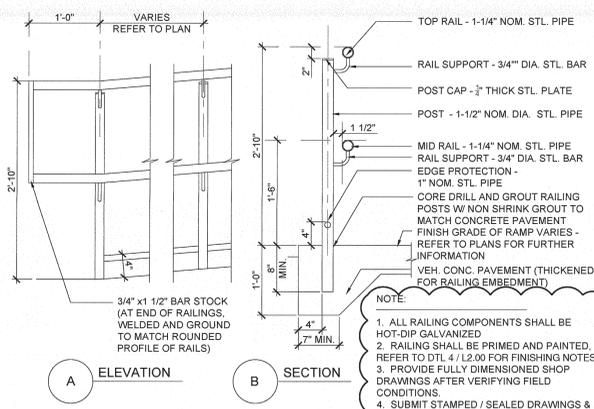
5 POST ELEVATION - IN PAVING MOUNT
SCALE: 1" = 1'-0"



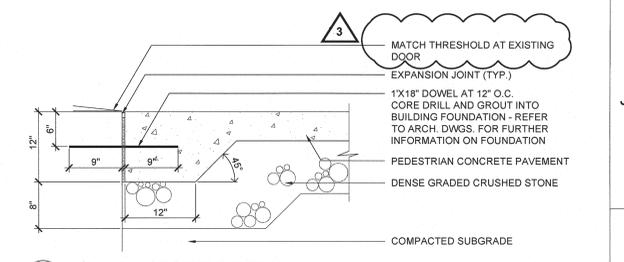
8 TYPICAL CONCRETE RETAINING WALL
SCALE: 3/4" = 1'-0"



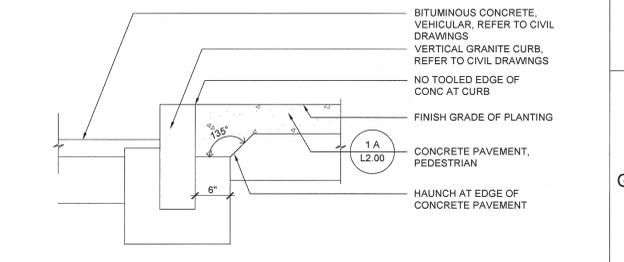
6 POST ELEVATION - STEP MOUNT
SCALE: 1" = 1'-0"



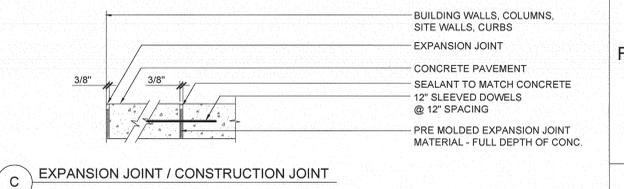
7 CONCRETE RAMP WITH METAL HANDRAILS
SCALE: 1" = 1'-0"



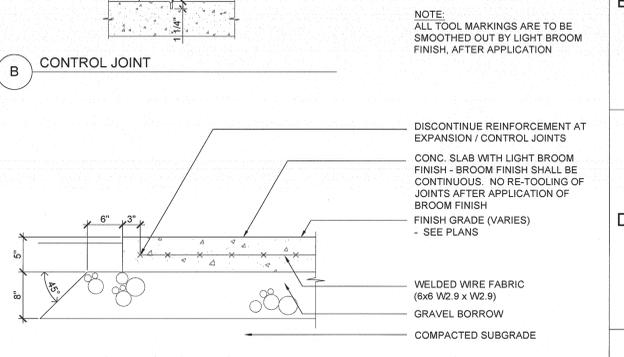
E CONC. PAV. AT DOOR THRESHOLD



D CURB EDGE

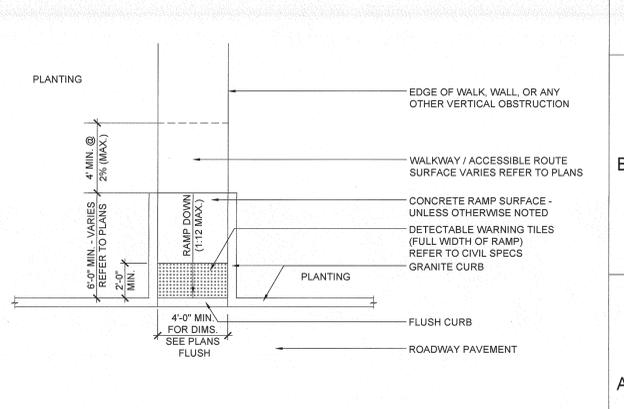


C EXPANSION JOINT / CONSTRUCTION JOINT



A CONCRETE PAVEMENT SECTION

1 CONCRETE PAVEMENT - PEDESTRIAN
SCALE: 1" = 1'-0"



2 CURB CUT RAMP TYPE 3
SCALE: 1/4" = 1'-0"

Brownsardina
Brown Sardina, Inc.
Landscape Architecture, Planning, Urban Design
24 Roland Street, Boston, MA 02129
Tel: 617.552.8655
www.brownsardina.com

DW
DORIS & WHITTEN, INC.
ARCHITECTS, INC.

Project No. 14-0676

DEERFIELD AVE EXTENSION
590 HIGH STREET
WESTWOOD, MA. 02090

100% BID DOCUMENTS

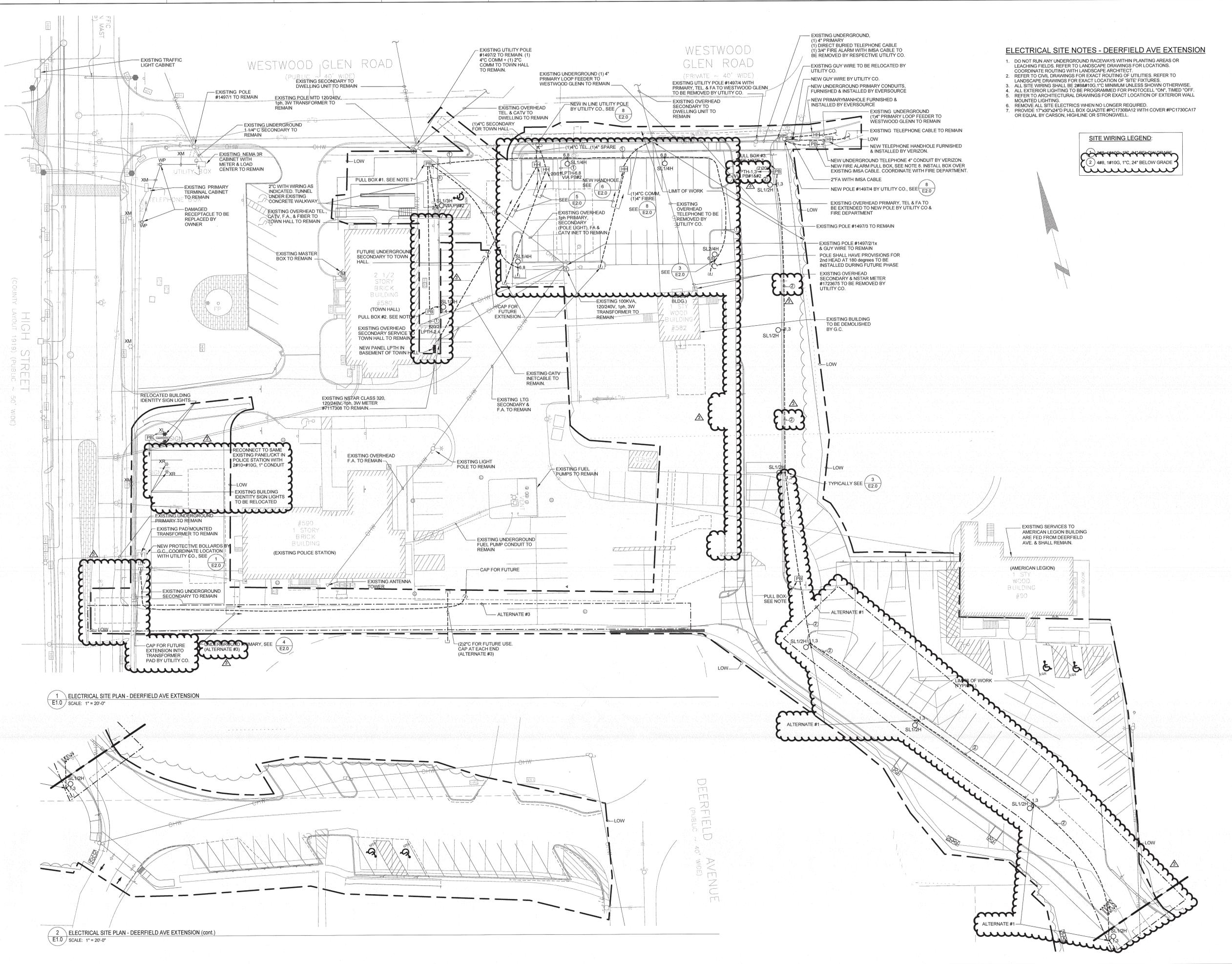
REVISION:	Date:
ADDENDUM #3	10/22/15
DATE:	SCALE:
10/1/15	VARIES
DRAWN BY:	CHK'D BY:
BB	WB

SHEET TITLE:
SITE DETAILS

SHEET #:
L2.00

J
H
G
F
E
D
C
B
A

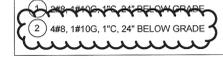
J
H
G
F
E
D
C
B
A



ELECTRICAL SITE NOTES - DEERFIELD AVE EXTENSION

- DO NOT RUN ANY UNDERGROUND RACEWAYS WITHIN PLANTING AREAS OR LEACHING FIELDS. REFER TO LANDSCAPE DRAWINGS FOR LOCATIONS. COORDINATE ROUTING WITH LANDSCAPE ARCHITECT.
- REFER TO CIVIL DRAWINGS FOR EXACT ROUTING OF UTILITIES. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATION OF 'SITE' FIXTURES.
- ALL SITE WIRING SHALL BE 2008#100, 1" MINIMUM UNLESS SHOWN OTHERWISE.
- ALL EXTERIOR LIGHTING TO BE PROGRAMMED FOR PHOTOCELL "ON", TIMED "OFF". REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EXTERIOR WALL MOUNTED LIGHTING.
- REMOVE ALL SITE ELECTRICS WHEN NO LONGER REQUIRED.
- PROVIDE 17x30x24" PULL BOX QUARTZITE #PC1730A12 WITH COVER #PC1730CA17 OR EQUAL BY CARSON, HIGHLINE OR CORNWELL.

SITE WIRING LEGEND



1 ELECTRICAL SITE PLAN - DEERFIELD AVE EXTENSION
SCALE: 1" = 20'-0"

2 ELECTRICAL SITE PLAN - DEERFIELD AVE EXTENSION (cont.)
SCALE: 1" = 20'-0"



Project No: **15007.00**

DEERFIELD AVE EXTENSION
590 HIGH STREET
WESTWOOD, MA 02090

100% BID DOCUMENTS

REVISION: **10/01/2015** Date: **10/22/15**

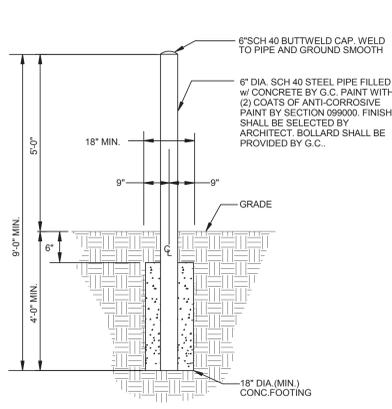
DATE: **10/01/2015** SCALE: As indicated
DRAWN BY: **MB** CHKD BY: **JMC**

SHEET TITLE: **ELECTRICAL SITE PLAN**

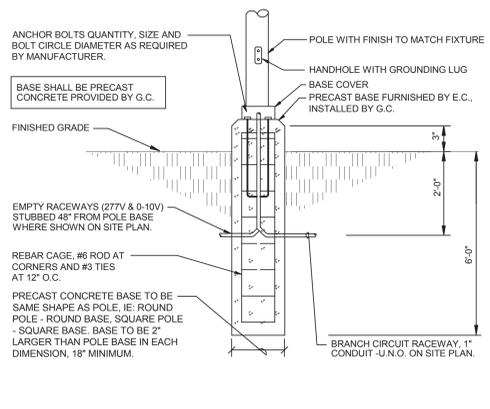
SHEET #:

E1.0

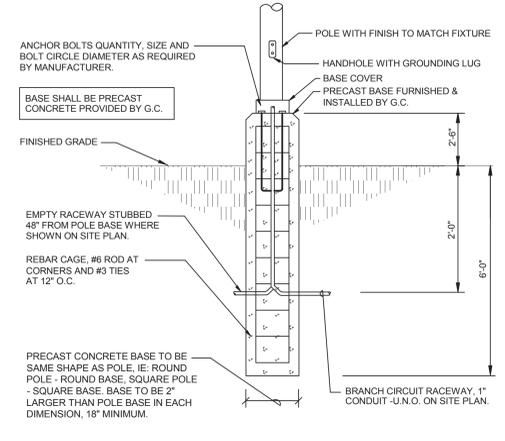
10/20/2015 5:11:27 PM E1.0 ELECTRICAL SITE PLAN



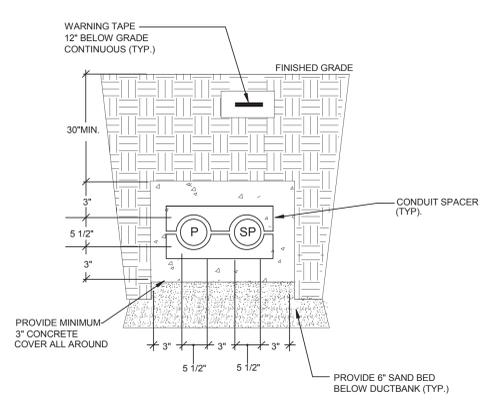
1 TYPICAL BOLLARD DETAIL
 E2.0 SCALE: N.T.S.



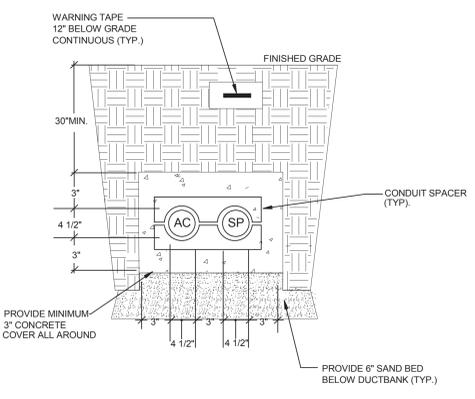
2 TYPICAL PEDESTRIAN POLE BASE DETAIL
 E2.0 SCALE: N.T.S.



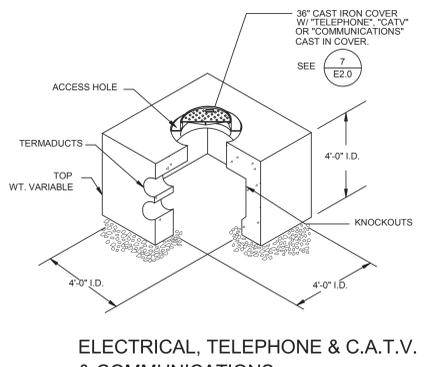
3 TYPICAL PARKING/DRIVE POLE BASE DETAIL
 E2.0 SCALE: N.T.S. (SL1/2H, SL1/3H, SL1/4H, SL2/4H)



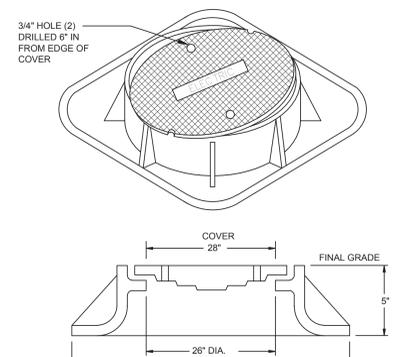
4 PRIMARY DUCT BANK SECTION "A-A"
 E2.0 SCALE: N.T.S.



5 SECONDARY & COMM. DUCT-BANK DETAIL "B-B"
 E2.0 SCALE: N.T.S.



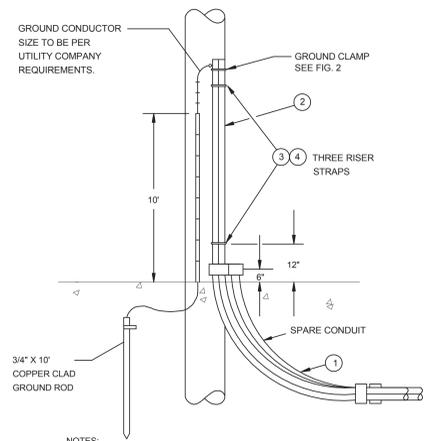
6 ELECTRICAL, TELEPHONE & C.A.T.V. & COMMUNICATIONS HANDHOLE
 E2.0 SCALE: N.T.S.



7 FRAME AND COVER DETAIL
 E2.0 SCALE: N.T.S.

- NOTES:
- COVERS WILL HAVE "ELECTRIC", "TELEPHONE", OR "CATV" CAST IN THEM IN 3 INCH LETTERS.
 - FRAME AND COVER TO SUPPORT H2O WHEEL LOAD.
 - NO VAULT MANHOLE SHALL BE BURIED DEEPER THAN 18" BELOW FINISHED GRADE.
 - COVER SHALL BE FLUSH TO FINAL GRADE (CONCRETE, ASPHALT, GRAVEL, GRASS, ETC.)

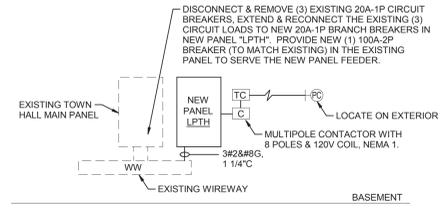
FRAME	SUPPLIER & CATALOG#	STOCK CODE
	NACIP AE 124	07-29-229
	LEBARON LE-285L	
	OR APPROVED EQUAL	
COVER	SUPPLIER & CATALOG#	STOCK CODE
	NACIP LE-285C ELECTRIC	07-15-530
	LEBARON	
	OR APPROVED EQUAL	



CODE NUMBERS FOR PIPE SIZES OF:

ITEM	DESCRIPTION
1	36" RADIUS SWEEP
2	CONDUIT-10' LENGTH-GALV. STEEL
3	RISER STRAPS
4	LAG SCREWS 3/8" X 3"
5	RISER PIPE CONNECTOR
6	#6 COPPER SOLID BARE (24" LONG)

8 POLE RISER DETAIL
 E2.0 SCALE: N.T.S.



9 TOWN HALL PARTIAL RISER DIAGRAM
 E2.0 SCALE: N.T.S.

120/240V, 1 PHASE, 3W, 22 KAIC

PANEL NO.	LOCATION	MTG	MAIN BUS AMPS	MAIN CB	BRANCH CKT BREAKER (AMPS)						TOTAL POLES	OTHERS	
					1 POLE		2 POLE		3 POLE				
					15	20	30	15	20	30			50
LPTH	BASEMENT	S	100	-	12	1	4	1				30	

9/28/2015 2:41:45 PM E2.0 ELECTRICAL DETAILS, RISER & PANEL SCHEDULE

WESTWOOD PUBLIC SAFETY
 DEERFIELD AVE. EXTENSION
 AND TOWN HALL PARKING
 590 HIGH STREET
 WESTWOOD MA 02090

ARCHITECTS • PROJECT MANAGERS
 DORR & WHITTIER ARCHITECTS, INC.
 200 Main Street, 2nd Fl.
 Burlington, VT 05401
 F : 877.499.2994
 F : 802.863.6955
 www.dorrwhittier.com

Project No:
15007.00

100% BID DOCUMENTS

REVISION	Date

DATE: 10/01/15 SCALE:
 DRAWN BY: MB CHKD BY: JMC

SHEET TITLE:
ELECTRICAL DETAILS, RISER & PANEL SCHEDULE

SHEET #:
E2.0

ELECTRICAL GENERAL NOTES

- THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLEMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
- COORDINATE WITH THE GENERAL CONTRACTOR, OTHER TRADES AND OF MANUFACTURERS EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E., POWER, CONTROL, INTERLOCK, ETC.
- ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODES AND AUTHORITIES.
- TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.
- DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
- FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.
- SUPPORT ALL WORK FROM THE BUILDING STRUCTURE.
- ALL MOUNTING HEIGHTS ARE TO CENTERLINE UNLESS OTHERWISE INDICATED.
- IF EXACT MOUNTING OR RACEWAY ROUTINGS ARE NOT INDICATED (LOCATION OR HEIGHT) REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION.
- ELECTRICAL WORK SHALL BE RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24 INCH SPACING IN FIRE RATED WALLS. SEE ARCHITECTURAL DRAWING FOR ADDITIONAL INFORMATION.
- PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.
- WIRE AND CONDUIT SIZES INDICATED ON HOMERUNS SHALL BE CONTINUOUS THROUGHOUT CIRCUIT.
- FURNISH AND INSTALL CODE REQUIRED DISCONNECTS WHICH ARE NOT FURNISHED BY THE HVAC OR PLUMBING CONTRACTORS.
- INSTALL A GREEN GROUNDING CONDUCTOR WITHIN EACH RACEWAY SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE, O.Z. GEDNEY OR APPROVED EQUAL PROVIDE WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.
- PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.
- USE CAUTION TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL WORKING IN THESE AREAS.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER MINIMUM #12 AWG. SIZE UNLESS OTHERWISE INDICATED.
- PROVIDE A PULL LINE IN EVERY EMPTY CONDUIT PROVIDED UNDER THIS SECTION.
- WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE PROVIDED.
- ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.

SYMBOL LIST

- LEGEND NOTES:**
THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT. ALL EQUIPMENT IS TO BE PROVIDED UNDER THIS SECTION UNLESS SPECIFICALLY INDICATED OTHERWISE.
- LIGHTING FIXTURES** (see lighting fixture schedule)
- WALL MOUNTED FIXTURE.
 - EMERGENCY BATTERY UNIT WITH INTEGRAL HEADS. (LOWER CASE)
 - POLE MOUNTED FIXTURE-DOUBLE OR SINGLE HEAD.
- SWITCHES** (typically mtd 48" AFF. C (u.n.o))
- S₁ SINGLE POLE SWITCH-"n" DESIGNATES SWITCH CONTROL.
 - S₂ TWO POLE SWITCH.
 - S₃ THREE-WAY SWITCH.
 - S_P SINGLE POLE SWITCH WITH PILOT LIGHT-GLOWS IN "OFF" POSITION WHEN IN VIEW OF LIGHTS. GLOWS IN "ON" POSITION WHEN REMOTE FROM LIGHTS.
- MISCELLANEOUS-DEVICES**
- DETAIL IDENTIFIER-INDICATES DETAIL #1 ON DWG. E-3.
 - GROUND BAR 24W" X 1/8" THICK X 18" LONG COPPER BUS. U.N.O.
 - SECTION IDENTIFIER- INDICATES SECTION A-A, DETAIL #2 ON DWG. E-3.
 - EQUIPMENT TAG NUMBER, REFER TO EQUIPMENT SCHEDULE. "K" INDICATES KITCHEN "C" INDICATES COMPUTER.
 - KEYED SHEET NO. SYMBOL. "1" INDICATES TO REFER TO NOTE #1
 - CIRCUIT SIZE NUMBER, REFER TO "CIRCUIT SIZE SCHEDULE".

WIRE AND RACEWAYS

- WIRING AND RACEWAY - NO. OF DIAGONAL LINES INDICATES NO. #12 AWG CONDUCTORS. ABSENCE OF DIAGONAL LINES INDICATES 2 #12 AWG-#12AWG GROUND UNLESS NOTED OTHERWISE. GROUND WIRE IS NOT SHOWN IN COUNT BUT SHALL BE PROVIDED.
- HOMERUN TO PANEL - NO. OF ARROWS INDICATES NO. OF 20 AMP/1 POLE CIRCUITS TO PANEL - UNLESS NOTED OTHERWISE.
 - NORMAL-EMERGENCY WIRING - MIN. 2#10 AWG + #10 AWG GROUND. RUN IN SEPARATE RACEWAY.
 - FIRE ALARM WIRING - "4F" INDICATES 4 #14 THHN SOLID IN 3/4" MIN. SIZE CONDUIT.
 - EMERGENCY ONLY WIRING-MINIMUM 2#10 AWG IN SEPARATE RACEWAY.
 - UNDERGROUND PRIMARY ELECTRIC SERVICE
 - UNDERGROUND SECONDARY ELECTRIC SERVICE
 - UNDERGROUND TELEPHONE SERVICE
 - UNDERGROUND CABLE TV SERVICE
 - UNDERGROUND FIRE ALARM SERVICE
 - 4" CONDUIT SLEEVE THRU-WAY, ACROSS CORRIDOR OR BETWEEN ROOMS FOR TEL/DATA - LOCATE ABOVE CEILING.
 - 1" CONDUIT SLEEVE THRU-WAY, PVC CORRIDOR OR BETWEEN ROOMS FOR TEL/DATA - LOCATE ABOVE CEILING.
 - CONDUIT SLEEVE EXTENDED TO NEAREST ACCESSIBLE CEILING-TERMINATE WITH INSULATED BUSHING.
 - FLEXIBLE CONNECTION TO EQUIPMENT

RECEPTACLES

- (typically mtd. at 18" a.f.f., uno)
- TYPICAL OUTLET NOTATIONS**
- "C" = MOUNTED @ ABOVE COUNTER OR 42" AFF. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS
 - "GFC" = GROUND FAULT INTERRUPTER TYPE MOUNTED AT 42" AFF.
 - "GFI" = GROUND FAULT INTERRUPTER TYPE.
 - "WP" = WEATHERPROOF RECEPTACLE WITH "NRTL" LISTED COVERPLATE FOR WET LOCATION WITH GFI TYPE RECEPTACLE INSTALLED IN NEMA 4 ENCLOSURE W/KEY LOCK.
 - 20 AMP, 120 VOLT DUPLEX RECEPTACLE. "2" INDICATES CIRCUIT NUMBER.
 - 20AMP, 120 VOLT DOUBLE DUPLEX RECEPTACLE.
 - SPECIAL PURPOSE OUTLET - RATINGS AS INDICATED ON DRAWINGS. EXAMPLE: ELECTRIC DRYER= 30A, 125/250V, 3 POLE, 4 WIRE, NEMA 14-30R. ELECTRIC RANGE= 50A, 125/250V, 3 POLE, 4 WIRE, NEMA 14-50R

POWER

- 120/240 VOLT, 1 PHASE, 3 WIRE PANELBOARD.
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- CATV MANHOLE
- METER SOCKET
- JUNCTION BOX - SIZE AS REQUIRED.
- FUSED DISCONNECT SWITCH HEAVY DUTY TYPE-"3R" INDICATES NEMA 3R 20 --- INDICATES TIME DELAY FUSE SIZE. 30 --- INDICATES SAFETY SWITCH SIZE.
- UNFUSED DISCONNECT SWITCH HEAVY DUTY TYPE-"3R" INDICATES NEMA 3R
- HORSEPOWER RATED THERMAL SWITCH WITH PILOT LIGHT
- EQUIPMENT CONTROL PANEL.
- PULL BOX-SIZE AS REQUIRED.
- TIMELOCK - 7 DAY WITH CARRYOVER
- PHOTOCELL

ABBREVIATIONS

- A AMPERE
- AL ALUMINUM
- AMP. FRAME
- AFB ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AIC INTERRUPTING CAPACITY
- ALCS AUTOMATED LIGHTING CONTROL SYSTEM
- ARCH ARCHITECT
- AT AMP TRIP
- ATC AUTO-TEMP CONTROL CONTRACTOR
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- C CONDUIT (GENERIC TERM FOR RACEWAY, PROVIDE AS SPECIFIED)
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- CLG CEILING
- CM CONSTRUCTION MANAGER
- CU COPPER
- ¢ CENTERLINE
- DEP DEPARTMENT OF ENVIRONMENTAL PROTECTION
- DP DEEP
- EPA ENVIRONMENTAL PROTECTION AGENCY
- DWG DRAWING
- EC ELECTRICAL CONTRACTOR
- EWC ELECTRIC WATER COOLER
- EMT ELECTRIC METALLIC TUBING
- FA FIRE ALARM
- FPC FIRE PROTECTION SYSTEM CONTRACTOR
- F&I FURNISHED AND INSTALLED
- G.GND GROUND
- CM GENERAL CONTRACTOR/ CONSTRUCTION MANAGER
- GFI GROUND FAULT INTERRUPTER
- HVAC HEATING, VENTILATING, AND AIR CONDITIONING CONTRACTOR
- HP HORSEPOWER
- IG ISOLATED GROUND
- IMC INTERMEDIATE METALLIC CONDUIT INFORMATION TECHNOLOGY CONTRACTOR
- IT
- JB JUNCTION BOX
- KCMIL THOUSAND CIRCULAR MILS
- KES KITCHEN EQUIPMENT SUPPLIER
- KVA KILO-VOLT AMPERE
- KW KILO-WATT
- LTG LIGHTING
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MCP MAIN DISTRIBUTION PANEL
- MH MOUNTING HEIGHT
- MLO MAIN LUGS ONLY
- MTD MOUNTED
- MTG MOUNTING
- MTS MANUAL TRANSFER SWITCH
- NIC NOT IN CONTRACT
- NO.# NUMBER
- NTS NOT TO SCALE
- P POLE(S)
- PB PULL BOX
- PC PLUMBING CONTRACTOR
- PH. PHASE
- PVC POLY-VINYL CHLORIDE CONDUIT
- PWR POWER
- REF REFRIGERATOR
- RGS RIGID GALVANIZED STEEL CODUIT
- SN SOLID NEUTRAL
- SWBD SWITCHBOARD
- TEL/DATA TELEPHONE/DATA
- TGP TELECOMMUNICATIONS GROUND BUS
- TP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- UTP UNSHIELDED TWISTED PAIR
- WG WIRE GUARD
- WP WEATHERPROOF
- XFMR TRANSFORMER
- XP EXPLOSION PROOF
- @72" MOUNT 72 INCHES TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE

EXISTING EQUIPMENT

- DOTTED DENOTES EXISTING EQUIPMENT.
- X EXISTING EQUIPMENT TO BE REMOVED AND CIRCUIT PULLED BACK TO NEXT ACTIVE OUTLET/BACK TO PANEL.
- XM EXISTING EQUIPMENT TO REMAIN.
- XR EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED.
- XL NEW LOCATION OF RELOCATED EXISTING EQUIPMENT.
- XN EXISTING EQUIPMENT TO BE REMOVED AND NEW EQUIPMENT INSTALLED IN VICINITY OF EXISTING LOCATION. REFER TO DETAILS FOR MOUNTING HEIGHTS.

ELECTRICAL GENERAL NOTES

- THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLEMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
- COORDINATE WITH THE GENERAL CONTRACTOR, OTHER TRADES AND OF MANUFACTURERS EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E., POWER, CONTROL, INTERLOCK, ETC.
- ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODES AND AUTHORITIES.
- TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.
- DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
- FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.
- SUPPORT ALL WORK FROM THE BUILDING STRUCTURE.
- ALL MOUNTING HEIGHTS ARE TO CENTERLINE UNLESS OTHERWISE INDICATED.
- IF EXACT MOUNTING OR RACEWAY ROUTINGS ARE NOT INDICATED (LOCATION OR HEIGHT) REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION.
- ELECTRICAL WORK SHALL BE RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24 INCH SPACING IN FIRE RATED WALLS.
- PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.
- WIRE AND CONDUIT SIZES INDICATED ON HOMERUNS SHALL BE CONTINUOUS THROUGHOUT CIRCUIT.
- FURNISH AND INSTALL CODE REQUIRED DISCONNECTS WHICH ARE NOT FURNISHED BY THE HVAC OR PLUMBING CONTRACTORS.
- INSTALL A GREEN GROUNDING CONDUCTOR WITHIN EACH RACEWAY SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE, O.Z. GEDNEY OR APPROVED EQUAL PROVIDE WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.
- PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.
- USE CAUTION TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL WORKING IN THESE AREAS.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER MINIMUM #12 AWG. SIZE UNLESS OTHERWISE INDICATED.
- PROVIDE A PULL LINE IN EVERY EMPTY CONDUIT PROVIDED UNDER THIS SECTION.
- WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE PROVIDED.
- ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (THREE PHASE AND THREE NEUTRALS) AND GROUNDING CONDUCTOR, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE RECEPTACLE CIRCUIT UNLESS AN OVERSIZED NEUTRAL IS SPECIFICALLY INDICATED.

LIGHTING FIXTURE SCHEDULE (1)(2)(3)(4)(5)(6)

TYPE	MANUFACTURER	MODEL / SERIES	MTG.	VOLTAGE	LIGHT SOURCE		DESCRIPTION	MFG. OPTIONS
					NO.	WATTS		
SL1/2H	LITHONIA	DSX0LED-20C-700-30K-T2M-MVOLT-RPA-HS-DOBXD / RSA-16-SC-DM19-DOBXD	POLE	UNIV-240V	NA	45	LED/3000K	SINGLE HEAD TYPE II DISTRIBUTION FIXTURE ON 16'-0" STRAIGHT ALUMINUM POLE AND 30" BASE (A)
SL1/3H	LUMEC	DOS-40W30LED-ES-LE4F-UNV-DBA-1A-BKTX / AM53V-16-BKTX	POLE	UNIV-240V	NA	40	LED/3000K	SINGLE HEAD TYPE III DISTRIBUTION FIXTURE ON 16'-0" STRAIGHT ALUMINUM POLE AND 30" BASE (B)
SL1/4H	LUMEC	DOS-40W30LED-ES-LE4F-UNV-DBA-1A-BKTX / AM53V-16-BKTX	POLE	UNIV-240V	NA	40	LED/3000K	SINGLE HEAD TYPE IV DISTRIBUTION FIXTURE ON 16'-0" STRAIGHT ALUMINUM POLE AND 30" BASE (C)
SL2/4H	LUMEC	DOS-40W30LED-ES-LE4F-UNV-DBA-2-BKTX / AM53V-16-BKTX	POLE	UNIV-240V	NA	(2)40	LED/3000K	TWIN HEAD TYPE IV DISTRIBUTION FIXTURE ON 16'-0" STRAIGHT ALUMINUM POLE AND 30" BASE (D)

MIXTURE MANUFACTURER OPTIONS (OR EQUAL)

- (A) MCGRAW-EDISON, BEGA, VISIONAIRE
- (B) KIM, SELUX, WE-EF

LIGHTING FIXTURE SCHEDULE NOTES ()

- LIGHTING FIXTURE PACKAGE SUBMITTALS SHALL BE FULLY COORDINATED BETWEEN THE ELECTRICAL CONTRACTOR, LIGHTING FIXTURE REPRESENTATIVE(S), AND LIGHTING MANUFACTURERS TO ENSURE ALL PRODUCT, INSTALLATION, AND CONTROL REQUIREMENTS ARE MET PRIOR TO SUBMISSION FOR REVIEW. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PACKAGE MEETING ALL REQUIREMENTS OF THE PROJECT FOR A COMPLETE AND FULLY FUNCTIONAL LIGHTING SYSTEM.
- PROVIDE FIXTURES WITH A MINIMUM WARRANTY COVERAGE OF 5 YEARS ON ALL PARTS. MANUFACTURER SHALL PROVIDE WRITTEN WARRANTY TO PROVIDE REPLACEMENT PARTS, INCLUDING BUT NOT LIMITED TO, LED SOURCE MODULE AND DRIVER FOR A MINIMUM OF FIVE YEARS. PARTS SHALL BE FULLY COMPATIBLE WITH FIXTURE TO PROVIDE SAME LIGHT OUTPUT, DISTRIBUTION, COLOR, AND COLOR RENDERING AT OR BELOW THE ORIGINAL WATTAGE. PROVIDE STATEMENT OF COMPLIANCE WITH SUBMITTALS.

LIGHTING GENERAL NOTES

- MANUFACTURERS AND CATALOG NUMBERS IDENTIFIED IN THE "LIGHTING FIXTURE SCHEDULE" SHALL SERVE TO ESTABLISH THE BASIS OF DESIGN FOR EACH LIGHTING FIXTURE TYPE. PRODUCTS OF EQUAL APPEARANCE, CONSTRUCTION, PERFORMANCE, AND WARRANTY COVERAGE FROM MANUFACTURERS OTHER THAN THOSE IDENTIFIED MAY BE PROPOSED FOR USE ON THIS PROJECT, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND ENGINEER. THE "FIXTURE MANUFACTURER OPTIONS (OR EQUAL)" LISTING IS PROVIDED FOR GUIDANCE IN IDENTIFYING MANUFACTURERS CAPABLE OF PROVIDING EQUAL PRODUCTS, BUT IN NOW WAY LIMITS MANUFACTURERS OR PRODUCTS THAT MAY BE PROPOSED AS EQUALS FOR THE PROJECT.
- "LIGHTING FIXTURE SCHEDULE" REMARKS, "LIGHTING FIXTURE SCHEDULE NOTES", "LIGHTING GENERAL NOTES", AND NOTATIONS ELSEWHERE MAY INDICATE FEATURES AND ACCESSORIES THAT ARE NOT INDICATED IN THE CATALOG NUMBER BUT ARE REQUIRED FOR THE PROJECT. PRODUCTS OTHER THAN THOSE SPECIFIED SUBMITTED SHALL BE DOCUMENTED FOR CONFORMANCE IN PERFORMANCE, CONSTRUCTION, AND APPEARANCE WITH THE CRITERIA ESTABLISHED BY THE SPECIFIED PRODUCT.
- ALL LAMPS, DRIVERS, AND CONTROLS SHALL MEET THE LATEST UTILITY COMPANY INCENTIVE REQUIREMENTS. REFER TO THE LATEST PROGRAM REQUIREMENTS DOCUMENTATION AND COORDINATE WITH THE UTILITY COMPANY TO ENSURE COMPLIANCE.
- FINISH FOR ALL FIXTURES SHALL BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S CATALOG OPTIONS.

WESTWOOD PUBLIC SAFETY
 DEERFIELD AVE. EXTENSION
 AND TOWN HALL PARKING
 590 HIGH STREET
 WESTWOOD MA 02090

ARCHITECTS • PROJECT MANAGERS
 200 Main Street, Suite 207
 Northampton, MA 01060
 P: 413.253.4929
 F: 413.253.4929
 www.dorowhittier.com

PROJECT NO. 15007.00

100% BID DOCUMENTS

REVISION	DATE

DATE: 10/01/15 SCALE:
 DRAWN BY: MB CHKD BY: JMC

SHEET TITLE:
 ELECTRICAL SYMBOL LIST & FIXTURE SCHEDULE

SHEET #:
E3.0