

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MASSACHUSETTS
MAY 15, 2018

PREPARED FOR:

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

PREPARED BY:

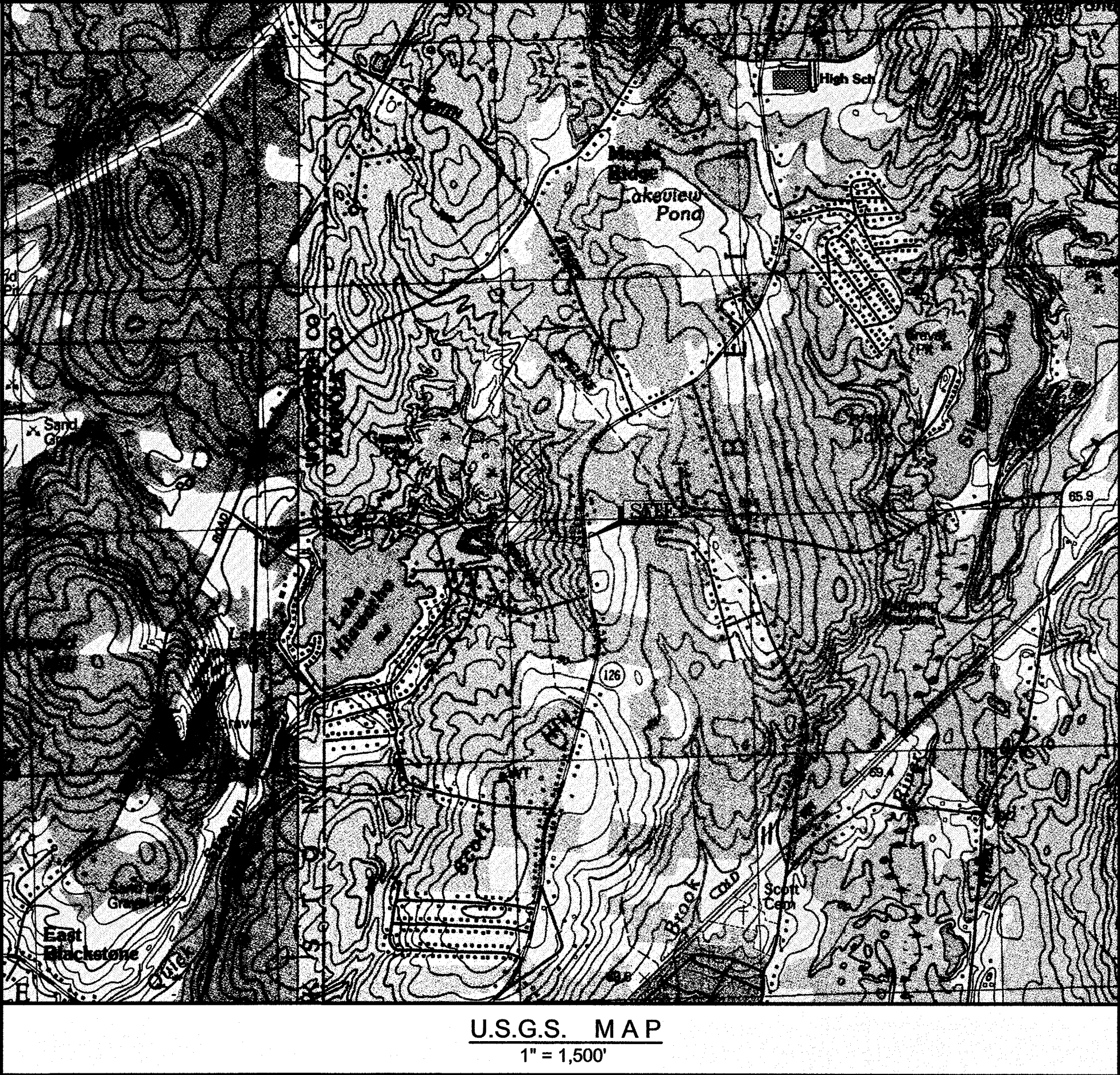
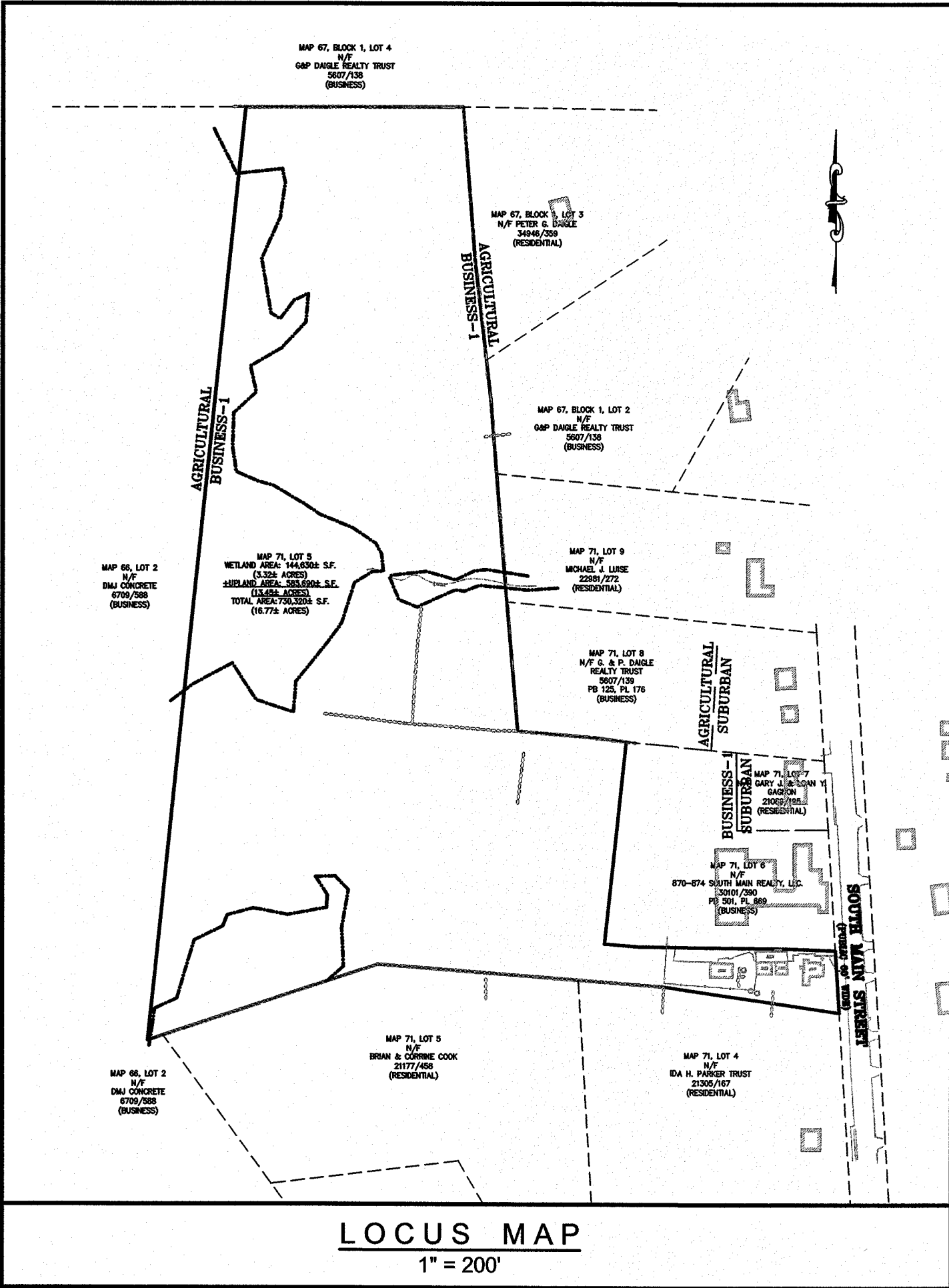
ANDREWS SURVEY &
ENGINEERING, INC.
104 MENDON STREET
P.O. BOX 312
UXBRIDGE, MA 01569
P: 508.278.3897
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LAND SURVEYING:

ANDREWS SURVEY & ENGINEERING, INC.
104 MENDON STREET
P.O. BOX 312
UXBRIDGE, MA 01569
P: 508.278.3897
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ENVIRONMENTAL:

B&C ASSOCIATES, INC.
2 RICE STREET
HUDSON, MA 01749
P: 978.568.0135



DRAWING DATE	LAST REVISION	SHEET NO.	SHEET TITLE
5/15/18	10/02/18	C-0.0	COVER SHEET
5/15/18	10/02/18	C-1.0	LEGEND, ABBREVIATIONS & GENERAL NOTES
5/15/18	10/02/18	C-1.1	INDEX SHEET
5/15/18	10/02/18	C-2.1 - C-2.2	EXISTING CONDITIONS & DEMOLITION PLAN
5/15/18	10/02/18	C-3.1 - C-3.2	LAYOUT & MATERIALS PLAN
5/15/18	10/02/18	C-4.1 - C-4.2	UTILITY PLAN
5/15/18	10/02/18	C-5.1 - C-5.2	GRADING & DRAINAGE PLAN
5/15/18	10/02/18	C-6.1 - C-6.2	ROADWAY PLAN AND PROFILE SHEETS
5/15/18	10/02/18	C-7.1 - C-7.2	LANDSCAPING & LIGHTING PLAN
5/15/18	10/02/18	C-8.1 - C-8.6	CONSTRUCTION DETAILS
5/15/18	10/02/18	C-9.1 - C-9.2	EROSION & SEDIMENT CONTROL PLAN
5/15/18	10/02/18	C-9.3	EROSION & SEDIMENT CONTROL NOTES & DETAILS
5/15/18	10/02/18	C-10.1 - C-10.2	WETLAND CROSSING & REPLICATION PLAN
5/15/18	10/02/18	C-10.3	BUFFER ZONE ENHANCEMENT PLAN
5/15/18	10/02/18	C-11.1 - C-11.2	FIRE ACCESS EXHIBIT PLAN

OWNER OF RECORD:
BEL AIR GARDENS, INC.
16 HOPSEWEE DRIVE
BLUFFTON, SC 29910

BELLINGHAM ASSESSORS INFORMATION:
PARCEL ID: 0071-0005-0000
TOTAL AREA: 730,501 S.F.± / 16.77 ACRES

BELLINGHAM ZONING INFORMATION:
UNDERLYING ZONE: BUSINESS-1 (B-1)
MINIMUM AREA: 40,000 S.F.
MINIMUM FRONTAGE: 150'
SETBACKS: FRONT 20', *SIDE 10', REAR 20'
*15' WHERE ADJOINING A RESIDENTIAL USE

DEED REFERENCES:
BK. 4118, PG. 726
BK. 5124, PG. 365
BK. 7614, PG. 146

PLAN REFERENCES:
PLAN NO. 669 OF 2002, PLAN BK. 501
PLAN NO. 1084 OF 1948, PLAN BK. 147
PLAN NO. 243 OF 1946, PLAN BK. 137

GOVERNMENT/UTILITY CONTACTS		
BELLINGHAM POLICE DEPT. 6 MECHANIC STREET P: 508.966.1515 F: 508.966.4669 ATTN: GERARD L. DAIGLE, JR., CHIEF	BELLINGHAM D.P.W. 26 BLACKSTONE STREET P: 508.966.5813 (DPW) P: 508.966.5813 (WATER DIVISION) P: 508.966.5816 (HIGHWAY DIVISION) ATTN: DONALD DIMARTINO, DIRECTOR	MASSACHUSETTS ELECTRIC CO. 1.800.322.3223 VERIZON COMMUNICATIONS 1.800.870.9999
BELLINGHAM FIRE DEPT. 28 BLACKSTONE STREET P: 508.966.1112 F: 508.966.5835 ATTN: STEVEN P. GENTILE, CHIEF	BELLINGHAM BUILDING DEPT. 10 MECHANIC STREET P: 508.657.2851 F: 508.966.5844 ATTN: TIM AICARDI, BUILDING INSPECTOR	
BELLINGHAM PLANNING DEPARTMENT 2 MECHANIC STREET P: 508.657.2892 F: 508.966.2317 ATTN: JAMES S. KUPFER, PLANNER	BELLINGHAM CONSERVATION COMMISSION 2 MECHANIC STREET P: 508.657.2858 F: 508.966.4425 ATTN: ANNE MATTHEWS	

ASE

Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
Uxbridge, Massachusetts 01569
P: 508-278-3897 F: 508-278-2289

500 East Washington Street
North Attleboro, Massachusetts 02760
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BELLINGHAM PLANNING BOARD

APPROVED
By Bellingham Planning Board at 10:10 am, Jan 04, 2019

BEING A MAJORITY DATE:

PROJECT:

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

APPLICANT:

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS

NO.	DATE	DESCRIPTION
1	9/17/18	PER REVIEW COMMENTS.
2	10/02/18	PER REVIEW COMMENTS.

CAD FILE ...\\dwg\\2017-395_SP.dwg

DRAWN BY TRB, RJF

CHECKED BY RMM, BJA

DATE MAY 15, 2018

PROJECT NO. 2017-395

RICHARD M. MAINVILLE
CIVIL
No. 28323
REGISTERED

BYRON ANDREWS
CIVIL
No. 47388
REGISTERED

P.E. P.L.S.

SHEET TITLE

COVER SHEET

DRAWING NO. C-0.0

PLAN NO. L-5506

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GENERAL NOTES

PART 1 – TOPOGRAPHIC AND PROPERTY LINE INFORMATION

- A. NOTICE TO CONTRACTOR: THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- B. PROPERTY LINE AND TOPOGRAPHY:
- EXISTING PROPERTY BOUNDARY INFORMATION BASED UPON AN ON THE GROUND SURVEY PERFORMED BY ANDREWS SURVEY & ENGINEERING, INC.
 - EXISTING TOPOGRAPHIC INFORMATION BASED UPON AN ON THE GROUND SURVEY PERFORMED BY ANDREWS SURVEY & ENGINEERING, INC.
- C. WETLAND DELINEATION BY B&C ASSOCIATES, INC. ON MARCH 5, 2018.
- D. DATUM: NAVD88
- E. COORDINATE SYSTEM: TRUE NORTH
- F. CONSTRUCTION STAKING CONTROL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY TO PERFORM THE WORK.
- G. FLOODPLAIN: PROPERTY IS NOT LOCATED IN A FLOOD HAZARD AREA OR 100-YEAR FLOODPLAIN ACCORDING TO THE MOST RECENT FLOOD INSURANCE RATE MAPS FOR BELLINGHAM.

PART 2 – EXECUTION

2.1 DEMOLITION, SEDIMENTATION, AND EROSION CONTROL

- A. THE FIRST STAGE INVOLVES ACTIVITIES NEEDED TO ADDRESS STORMWATER MANAGEMENT, EXCAVATING MATERIAL DESIGNATED FOR OFF-SITE REMOVAL OR ON-SITE RELOCATION AND FENCING SELECTED AREAS. STAGE ONE WILL PREPARE SITE FOR CONVENTIONAL CONSTRUCTION.
- B. THE SECOND STAGE WILL CONSIST OF ROUTINE CONSTRUCTION INVOLVING BUILDING, PAVING, LANDSCAPING, AND UTILITIES.
- C. THERE ARE GENERAL PHASES OF CONSTRUCTION. IN EACH PHASE OF CONSTRUCTION, IMPLEMENT STANDARD EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT DISTURBING ACTIVITIES, AND MAINTAIN THESE PRACTICES THROUGHOUT THE COURSE OF CONSTRUCTION.
- D. DURING DEMOLITION, EXCAVATIONS AS MUCH AS 20 FEET MAY BE REQUIRED FOR THE INSTALLATION OF FOUNDATIONS, RETAINING WALLS, AND UTILITIES. EXCAVATIONS SHALL BE CUT TO A STABLE SOLE OR BE TEMPORARILY BRACED, DEPENDING ON THE EXCAVATION DEPTHS AND THE ENCOUNTERED SUBSURFACE CONDITIONS. THE CONTRACTOR MAY BE REQUIRED TO SUBMIT EXCAVATION AND SLOPE STABILIZATION METHODS PRIOR TO THE START OF CONSTRUCTION TO THE ENGINEER FOR REVIEW.
- E. BASED ON THE COMPOSITION OF SOILS ENCOUNTERED DURING THE EXPLORATION PROGRAM, SITE SOILS ARE GENERALLY CLASSIFIED AS TYPES B AND C SOILS AS DEFINED BY (USGS) NATIONAL RESOURCES CONSERVATION SERVICE (NRCS), FORMERLY SOIL CONSERVATION SURVEY (SCS). TEMPORARY CONSTRUCTION SLOPES SHOULD BE DESIGNED IN STRICT COMPLIANCE WITH THE MOST RECENT GOVERNING REGULATIONS. STOOPLES SHOULD BE PLACED WELL AWAY FROM THE EDGE OF THE EXCAVATION AND THEIR HEIGHT SHOULD BE CONTROLLED TO PREVENT SURCHARGE TO THE SIDES OF THE EXCAVATION. SURFACE DRAINAGE SHOULD BE CONTROLLED TO AVOID FLOW OF SURFACE WATER INTO THE EXCAVATIONS.
- F. CONSTRUCTION SLOPES SHOULD BE REVIEWED FOR MASS MOVEMENT. IF POTENTIAL STABILITY PROBLEMS ARE OBSERVED, WORK SHOULD CEASE AND A GEOTECHNICAL ENGINEER SHOULD BE CONTACTED IMMEDIATELY. THE RESPONSIBILITY FOR EXCAVATION SAFETY AND STABILITY OF TEMPORARY CONSTRUCTION SLOPES SHOULD LIE SOLELY WITH THE CONTRACTOR.

2.2 – TYPICAL PRACTICES TO BE APPLIED TO THE SITE INCLUDE THE FOLLOWING:

- A. PRIOR TO EARTH DISTURBANCE IN ANY WORK AREA, INSTALL EROSION CONTROL BARRIERS BETWEEN THE WORK AREA AND THE SURFACE WATER RESOURCE TO WHICH IT DRAINS.
- B. DISCHARGE WATER FROM DEWATERING OPERATIONS TO A TEMPORARY SILTATION TRAP OR SEDIMENTATION BASIN.
- C. PROVIDE TEMPORARY BERMS AND SWALES TO DIVERT SURFACE WATER AWAY FROM THE AREAS THAT WILL BE EXPOSED BY CONSTRUCTION ACTIVITY TO MINIMIZE THE AMOUNT OF SURFACE WATER COMING INTO CONTACT WITH EXPOSED SOILS. PROVIDE STABLE OUTLETS FOR THESE DEVICES, AND LINE OR VEGETATE THESE DIVERSIONS TO PROVIDE FOR THEIR STABILITY DURING CONSTRUCTION.
- D. LIMIT THE EXTENT OF EXPOSED SOILS TO AREAS THAT CAN BE WORKED AND RESTABILIZED WITHIN THE CONSTRUCTION SEASON AND DURING THE SPECIFIC CONSTRUCTION PHASE.
- E. WHEN EARTHWORK CONSTRUCTION ACTIVITY IN AN AREA IS COMPLETE, STABILIZE THE AREA WITH A SUITABLE SURFACE AS DESCRIBED BELOW.
- F. IN ADDITION TO THESE PRACTICES, FOLLOW THE SPECIAL PRACTICES DESCRIBED BELOW COMPLY WITH THE DIRECTIONS OF THE APPLICANT'S REPRESENTATIVE TO ADDRESS EROSION AND SEDIMENTATION CONDITIONS THAT MAY ARISE ON A CASE BY CASE BASIS DURING CONSTRUCTION.

G. THE FOLLOWING IS A DESCRIPTION OF MINIMUM CONSTRUCTION REQUIREMENTS AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES WITH REGARD TO DETERMINING THE ADEQUACY OF MEANS AND METHODS OF CONSTRUCTION.

2.3 – CONSTRUCTION SEQUENCING

A. SEQUENCING SHALL BE AS SHOWN ON THE PLAN AND AS DICTATED BY THE REQUIREMENTS OF CONSTRUCTION.

2.4 – MAINTENANCE

- A. DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED:
- B. SEEDED AREAS WILL BE FERTILIZED AND RESEDED AS NECESSARY TO INSURE VEGETATION ESTABLISHMENT.
- C. TEMPORARY SEDIMENTATION BASINS WILL BE CHECKED AFTER EACH SIGNIFICANT RAINFALL AND CLEARED AS NEEDED TO RETAIN STORAGE CAPACITY.
- D. TEMPORARY DRAINAGE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY.
- E. THE EROSION CONTROL BARRIERS AND OTHER EROSION AND SEDIMENT CONTROL MEASURES/DEVICES SHALL BE INSPECTED, CLEANED, REPLACED AND/OR REPAIRED AS NECESSARY, PERIODICALLY AND AFTER EACH SIGNIFICANT RAINFALL.
- F. SWEEP ON-SITE PAVED AREAS AND OFF-SITE STREETS AS NECESSARY TO PREVENT SILT AND DEBRIS ORIGINATING ON-SITE FROM ENTERING CLOSED DRAINAGE SYSTEMS AND/OR ENVIRONMENTALLY SENSITIVE AREAS. WHEN NECESSARY UTILIZE WATER SPRAYING, SURFACE ROUGHENING AND/OR APPLY POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES AND BARRIERS FOR DUST CONTROL.

2.5 – GENERAL

- A. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH (USDA) NATURAL RESOURCES CONSERVATION SERVICE (NRCS, FORMERLY SCS) GUIDELINES AND ALL LOCAL, COUNTY AND MUNICIPAL REGULATIONS.
- B. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS. SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
- C. ALL WORK SHALL BE IN ACCORDANCE WITH THE PERMITS AND APPROVALS ISSUED AND THE CONSTRUCTION SPECIFICATIONS. PRIOR TO ANY BLASTING, THE CONTRACTOR SHALL CONDUCT A PRE-BLAST SURVEY OF ALL DWELLINGS WITHIN THREE HUNDRED (300) FEET OF THE SITE.
- D. STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED HAYBALES AND/OR SILTATION FENCES TO PREVENT AND/OR CONTROL SILTATION AND EROSION.

PART 2 – CONTINUED

- E. TOPS OF STOCKPILES SHALL BE COVERED IN SUCH A MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.
- F. ALL DISTURBED OR EXPOSED AREAS SHALL BE PERMANENTLY STABILIZED WITHIN FIVE (5) BUSINESS DAYS OF COMPLETION OF CONSTRUCTION OF A GIVEN AREA. EXPOSED AREAS WHERE NO WORK HAS OCCURRED FOR FOURTEEN (14) DAYS SHALL BE TEMPORARILY STABILIZED WITH HYDROSEED OR OTHER APPROVED METHOD.
- G. THE LOCATION OF TEMPORARY DRAINAGE SWALES AND SEDIMENTATION TRAPS ARE APPROXIMATE ONLY AND SHALL BE RELOCATED AS REQUIRED AS CONSTRUCTION PROGRESSES.
- H. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS. SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
- I. HAYBALE DIKES SHALL BE CONSTRUCTED AT ALL EXISTING & PROPOSED CATCH BASINS LOCATED IN FILL AREAS & SUBJECT TO STORMWATER RUN-OFF FROM PROPOSED FILL AREAS DURING CONSTRUCTION, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. NO SEDIMENTS SHALL ENTER THE ON-SITE OR OFF-SITE DRAINAGE SYSTEMS AT ANY TIME.
- J. CULVERT/PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY HAYBALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- K. EROSION CONTROLS SHALL BE PERIODICALLY INSPECTED AND REPLACED AS REQUIRED.
- L. ALL PROPOSED NON-RIPRAP SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH EXCLESIOR BLANKETS AND PROTECTED FROM EROSION.
- M. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL HAYBALES AND EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE OR LOCAL OFFICIALS TO MITIGATE ANY EMERGENCY CONDITION.
- N. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE HAULED OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL MUNICIPAL REQUIREMENTS.

- O. HE CONTRACTOR SHALL PROTECT AND/OR CAP OFF ALL EXISTING ON-SITE UTILITY SERVICES DESIGNATED AS SUCH ON THESE DRAWINGS.
- P. HE LIMIT OF WORK LINE FOR THE AREA TO BE CLEARED AND GRUBBED SHALL BE THE SAME AS THE LIMIT OF WORK LINE NECESSARY FOR GRADING PURPOSES, (I.E., THE GRADING LIMITS AROUND THE PERIMETER OF THE PROJECT AREA).
- Q. HE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- R. FOLLOWING THE ADDITION OF A BINDER COURSE, THE CONTRACTOR SHALL SWEEP ALL ON-SITE PAVEMENT, IF NECESSARY, UNTIL ALL SITE CONSTRUCTION IS COMPLETED.
- S. E MATERIALS AND METHODS USED IN THE CONSTRUCTION OF ROADWAYS SHALL CONFORM TO THE REQUIREMENTS OF "TOWN OF BELLINGHAM SUBDIVISION REGULATIONS". WHEN NO TOWN SPECIFICATION IS PROVIDED THE MATERIALS AND METHODS USED IN THE CONSTRUCTION OF ROADWAYS SHALL CONFORM TO THE REQUIREMENTS OF THE "MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS, STANDARDS & SPECIFICATIONS FOR HIGHWAYS & BRIDGES," LATEST EDITION.
- T. FOUNDATION DRAINS SHALL BE PROVIDED AND SHALL DISCHARGE BY GRAVITY OR MECHANICAL MEANS INTO AN APPROVED DRAINAGE SYSTEM THAT COMPLIES WITH THE INTERNATIONAL PLUMBING CODE.

PART 3 – STORM DRAINS

- A. STORM DRAIN PIPING (INDICATED BY LETTER "D") SHALL BE CORRUGATED POLYETHYLENE PIPE (HDPE) AS INDICATED, PER AASHTO M294 AND M252 MANUFACTURED WITH HIGH DENSITY POLYETHYLENE PLASTIC. HDPE SHALL BE ADS N-12 PIPE AS MANUFACTURED BY HANCOCK, INC. OR APPROVED EQUIVA.
- B. STORM DRAIN MANHOLES (INDICATED BY LETTERS "DMH") SHALL BE PRECAST 4', 5' OR 6' DIAMETER CONCRETE PER ASTM C478 (AS CALLED FOR ON DRAWINGS OR FIELD CONDITIONS REQUIRED) WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C443. PIPE TO MANHOLE CONNECTIONS SHALL BE MORTARED PIPE OPENINGS.
- C. CATCH BASINS (INDICATED BY LETTERS "CB") SHALL BE PRECAST 5' DIAMETER CONCRETE PER ASTM C478, (ALTERNATE TOP SLAB WHERE NECESSARY) AND RUBBER GASKET JOINTS CONFORMING TO ASTM C443, WITH 4 FOOT PUMPS AND GAS TRAP OUTLET ELBOW. PIPE TO STRUCTURE CONNECTIONS SHALL BE MORTARED PIPE OPENINGS.
- D. COORDINATES OF MANHOLES REFER TO CENTERS OF STRUCTURES AND CATCH BASINS REFER TO THE CENTER BACK OF THE FRAME AND GRATE.
- E. FLARED END SECTIONS (FES) SHALL BE CORRUGATED POLYETHYLENE PIPE AS INDICATED, MANUFACTURED WITH HIGH DENSITY POLYETHYLENE PLASTIC. ADS N-12 OR APPROVED EQUIVA.

PART 4 – UTILITIES

4.1 – WATER DISTRIBUTION AND FIRE PROTECTION

A. WATER MAINS 3" DIA. AND LARGER SHALL HAVE 5'-0" MINIMUM COVER AND SHALL BE CEMENT LINED DUCTILE IRON (CLDI), CLASS 52 MINIMUM, CONFORMING TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A21.50, A21.4, A21.10 AND A21.51. JOINTS AT FITTINGS, VALVES AND HYDRANT LATERALS SHALL BE MECHANICAL JOINT PER ANSI A21.11, WITH GASKETS. JOINTS AT OTHER LOCATIONS SHALL BE PUSH-ON TYPE WITH GASKETS PER ANSI A21.11. ALL FITTINGS, VALVES, HYDRANTS AND CAPS SHALL BE CLASS 350 PROVIDED WITH THRUST RESTRAINTS (THRUST BLOCKS AND RETAINING RODS) IN CONFORMANCE WITH THE DETAILS.

B. GENERALLY, WATER MAIN FITTINGS IDENTIFIED ON THIS DRAWING ARE SHOWN FOR INSTALLATION LOCATION PURPOSES. THE CONTRACTOR IS ADVISED THAT NOT ALL FITTINGS AND SUPPLY LINES ARE NOTED, SHOWN, OR INDICATED.

C. ALL HYDRANTS SHALL BE INSTALLED WITH A 6" CLDI LATERAL AND SHALL BE INSTALLED WITH A 6" GATE VALVE, BOX, AND TEE FITTING. ALL HYDRANTS SHALL MEET AND BE INSTALLED IN ACCORDANCE WITH ALL LOCAL MUNICIPAL STANDARDS.

D. ALL WATER MAIN APPURTENANCES, MATERIALS, AND METHODS OF INSTALLATION SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS.

E. PRESSURE AND LEAKAGE TEST, DISINFECTION AND FLUSHING SHALL BE IN ACCORDANCE WITH ALL LOCAL MUNICIPAL STANDARDS AND REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS IN CONNECTIONS WITH UTILITY TESTS, FLUSHING, AND INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY.

F. EXISTING SERVICES SHALL BE CUT AND A WATERTIGHT PLUG SHALL BE INSTALLED. EXISTING GATE VALVES TO BE ABANDONED SHALL BE PERMANENTLY CLOSED AND CAPPED, AND WATER SERVICES SHOULD BE SHUT OFF AT THE MAIN CORPORATION.

4.2 – GAS

INSTALLATION OF GAS LINES & EQUIPMENT SHALL BE COORDINATED AND SCHEDULED BY THE CONTRACTOR WITH THE APPROPRIATE GAS COMPANY SERVING THE PROJECT SITE AND SHALL BE INSTALLED PER THE GAS COMPANY SPECIFICATIONS.

4.3 – UTILITY SEPARATION

- A. A MINIMUM 10 FEET CLEAR HORIZONTAL DISTANCE SHALL BE MAINTAINED BETWEEN SANITARY SEWER MAINS AND WATER MAINS. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH AND THE ELEVATION OF THE CROWN OF THE SEWER SHALL BE AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN.
- B. A MINIMUM OF 18" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER MAINS CROSS STORM DRAIN LINES.

PART 4 – CONTINUED

C. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT CROWN OF THE SEWER IS AT LEAST TWO FEET BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL DO THE FOLLOWING:

- THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL-JOINT PIPE FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, THE WATER MAIN SHALL BE ENCASED IN CONCRETE, AS PER TOWN OF BELLINGHAM DPW STANDARDS.

D. PRIMARY ELECTRICAL ENCASED CONDUIT MUST BE SEPARATED FROM GAS BY 3' MIN. AND FROM OTHER UTILITIES BY 2' MINIMUM.

E. TELEPHONE AND FIRE ALARM WHICH SHARE THE SAME TRENCH MUST HAVE A 1' VERTICAL SEPARATION.

F. GAS MAINS MUST BE SEPARATED FROM OTHER UTILITIES BY 2' MINIMUM.

4.3 – ELECTRIC AND COMMUNICATIONS

A. INSTALLATION OF COMMUNICATIONS (TELEPHONE, CABLE AND FIRE ALARM) SYSTEMS SHALL BE COORDINATED AND SCHEDULED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANY SERVING THE PROJECT SITE.

B. COORDINATES REFER TO THE CENTER OF STRUCTURES UNLESS OTHERWISE NOTED OR DETAILED. CONTRACTOR SHALL COORDINATE LIGHT BASE LOCATIONS WITH PROPOSED CURBING AND PARKING LOT STRIPING.

C. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ELECTRICAL SERVICE PRIOR TO ORDERING ANY EQUIPMENT.

4.4 – STREET LIGHTING

A. CONTRACTOR SHALL SUPPLY ALL LIGHTING PRODUCTS (OR APPROVED EQUIVALENTS) AS SHOWN ON THIS PLAN. ADDITIONAL LIGHTS MAY BE REQUIRED FOR LIGHTING ENTRANCE WAYS, SIGNS AND OTHER OUTDOOR AREAS OF SPECIAL LIGHTING INTEREST. IN NO CASE SHALL THE CONTRACTOR USE LESS LIGHTS THAN SHOWN.

B. ALL LIGHTING PRODUCTS AND ACCESSORIES, INCLUDING POLES AND MOUNTING UNITS, SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ALTERNATIVE PRODUCTS MAY BE USED IN LIGHTING ASSEMBLY AS LONG AS IT IS APPROVED BY THE MANUFACTURER.

C. EACH LIGHTING POLE IS TO BE EQUIPPED WITH LIGHTNING PROTECTION AS ESTABLISHED BY NFPA 780 (NATIONAL FIRE PROTECTION ASSOCIATION).

D. LIGHT TYPES AS INDICATED ON THIS PLAN ARE SUGGESTIONS ONLY. FINAL SELECTION OF LIGHT TYPES AND ASSEMBLIES TO BE DETERMINED AT TIME OF PURCHASE, DEPENDING ON AVAILABILITY, BALLAST WATTAGE, QUANTITY AND POLE HEIGHT ARE NOT TO CHANGE WITHOUT PRIOR APPROVAL OF THE PLANNING BOARD.

PART 5 – PAVEMENT AND CURBING

A. JOINTS BETWEEN NEW BITUMINOUS CONCRETE PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDS.

B. CURBING SHALL BE INSTALLED AS FOLLOWS:

- BITUMINOUS MODIFIED CAPE COD BERM THROUGHOUT THE SELF-STORAGE FACILITY.

C. DIMENSIONS REFER TO FACE OF CURB UNLESS NOTED OTHERWISE.

D. ALL LIMITS OF PAVING SHALL BE CURBED UNLESS NOTED OR DETAILED OTHERWISE.

PART 6 – TRAFFIC CONTROL

A. INCLUDING, BUT NOT LIMITED TO, ALL CROSSWALKS, STOP LINES AND LEGENDS.

- LEGENDS SHALL BE PREFORMED PERMANENT PLASTIC. PAVEMENT MARKINGS SHALL BE THERMO PLASTIC (ALKYD). THE MARKINGS, LEGENDS SHALL BE INSTALLED IN ACCORDANCE WITH THE RELEVANT PORTIONS OF MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) STANDARD SPECIFICATIONS. THE CONTRACTOR'S ATTENTION ALSO IS DIRECTED TO THE STANDARD SPECIFICATIONS, FOR REQUIREMENTS REGARDING THE AMBIENT AIR TEMPERATURE AT THE TIME OF APPLICATION.

PART 7 – QUALITY ASSURANCE

A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS FROM ACCEPTABLE MANUFACTURERS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. CONFORM TO CONDITIONS OF APPROVAL ISSUED BY REGULATORY AGENCIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, LOCAL PLANNING BOARD, CONSERVATION COMMISSION, CITY COUNCIL, BOARD OF HEALTH, PUBLIC WORKS / HIGHWAY DEPARTMENT, STATE ENVIRONMENTAL PROTECTION DEPARTMENT AND U.S. GOVERNMENT, ENVIRONMENTAL PROTECTION AGENCY, WHERE CONDITIONS OF REGULATORY APPROVAL DIFFER FROM REQUIREMENTS CONTAINED HEREIN OR ON THE DRAWINGS, COMPLY WITH THE MORE STRINGENT REQUIREMENT.

PART 8 – INSPECTION AND MAINTENANCE

BITUMINOUS CONCRETE

A. INSPECT ALL CATCH BASINS (CB) AND MANHOLES AT LOCATIONS SHOWN ON SUBDIVISION PLANS. LOOK FOR SETTLING OF PAVEMENT, REPAIR AS REQUIRED. LOOK AT LEVEL OF SAND, SILT IN SUMPS. HAVE SUMPS CLEARED IF OUTLET PIPE IS BLOCKED. VERIFY THAT ELBOW (ON RAIL) ON PIPE OUTLET IS SECURELY IN PLACE. CLEAN ALL LEAVES, TRASH, AND PINE NEEDLES FROM CB GRATE.

B. LOOK FOR SIGNS OF CRACKING & POTHOLES, REPAIR AS REQUIRED.

C. LOOK FOR SIGNS OF EROSION AT EDGES OF ROADWAY. INSPECT FOR BROKEN CURB. SEVERE EROSION MAY BE CAUSED BY PIPE BLOCKAGE AND RESULTING OVERFLOWS OUT OF CATCH BASINS. REMOVE DRAIN MANHOLE COVERS AND CB GRATES IN AREA AND LOOK FOR BLOCKAGES WHERE SURFACE EROSION IS EVIDENT.

LAWN

B. INSPECT AFTER EACH SIGNIFICANT RAINFALL (½" OR MORE) FOR FIRST 6 MONTHS AFTER CONSTRUCTION TO ENSURE SURFACE VEGETATION IS HEALTHY. DISCHARGE DEVICES ARE NOT BLOCKED AND BANKS ARE NOT ERODING. CHECK ALL COMPONENTS AFTER EACH MAJOR STORM (MORE THAN 2" RAINFALL IN 24 HOURS). CLEAN/REPAIR AS REQUIRED.

LANDSCAPING

A. INSPECT FOR DISEASED/DYING TREES, SHRUBS, GROUND COVER, & GRASS; REPLACE AS REQUIRED.

B. INSPECT MULCH BEDS. SUPPLEMENT AS REQUIRED TO PROVIDE THE SPECIFIED MINIMUM DEPTH (LOOSE MEASURE).

RIP RAP (STONE) SLOPE PROTECTION

A. INSPECT STONE SLOPE PROTECTION, CUT EMERGING YOUNG TREES GROWING IN STONES. INSPECT STONE AT PIPE OUTLETS. REMOVE DEBRIS. REPAIR AS REQUIRED.

PART 9 – LANDSCAPING

A. ALL SITE INFORMATION REPRESENTED ON THIS PLAN IS ILLUSTRATIVE, AND MUST BE VERIFIED BY THE CONTRACTOR. WRITTEN SPECIFICATIONS SHALL TAKE PRECEDENCE OVER REPRESENTATIONS ON DRAWINGS.

B. IT IS CONTRACTOR'S RESPONSIBILITY TO BECOME APPRISED OF EXISTING CONDITIONS, UNDERGROUND UTILITIES, AND OVERHEAD UTILITIES. COORDINATION WITH ALL RELEVANT COMPANIES OR AGENCIES, INCLUDING PERMITTING, AFFECTED BY THIS CONSTRUCTION IS CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY NECESSARY PERMITS REQUIRED FROM LOCAL AUTHORITIES FOR ALL WORK IN THIS CONTRACT.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE SAFETY OF CONSTRUCTION CREW, AND PARTICULARLY OF SAFETY OF PEDESTRIANS DURING PERIOD OF CONSTRUCTION PROJECT.

D. ALL UNUSED MOVEABLE MATERIALS SHALL BE REMOVED FROM THE SITE DAILY, OR STORED IN SUCH A WAY AS TO PRECLUDE LOSS OR VANDALISM. ALL DEBRIS SHALL BE REMOVED, AND ALL WALKS MADE FREE OF OBSTRUCTIONS, AND SITE LEFT IN NEAT, CLEAN CONDITION AT THE CLOSE OF EACH WORK DAY.

E. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES PRIOR TO STARTING WORK. CONTRACTOR TO VERIFY THAT ADEQUATE DRAINAGE EXISTS PRIOR TO PLANTING.

PART 9 – CONTINUED

F. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS. PLANT COUNTS ARE FOR CONVENIENCE ONLY. CONTRACTOR SHALL USE SUFFICIENT PLANT MATERIALS TO FULFILL DESIGN INTENT, BUT IN NO CASE SHALL CONTRACTOR USE FEWER PLANTS THAN LISTED.

G. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

H. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AT THE NURSERY AND AT THE SITE. ALL TREES SHALL HAVE A SINGLE LEADER UNLESS SPECIFIED OTHERWISE. NO UN-APPROVED SUBSTITUTIONS WILL BE ACCEPTED. PLANT SPECIES AND CULTIVAR, SIZE AND QUANTITY SHALL NOT CHANGE WITHOUT APPROVAL OF LANDSCAPE ARCHITECT.

I. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS ORIGINAL GRADE BEFORE DIGGING. PLANTS TO BE TRANSPLANTED SHALL BE DUG CAREFULLY, WITH ADEQUATE ROOTBALLS AND PRUNED ACCORDING TO ANA STANDARD PRACTICE. TREES WITH ROOT FLARE COVERED BY MORE THAN 1.5" OF SOIL WILL BE REJECTED PRIOR TO INSTALLATION. SET PLANTS PLUMB.

J. ALL TREES AND SHRUBS SHALL BE BALLED IN BURLAP OR CONTAINERIZED, UNLESS SPECIFIED OTHERWISE. NO ROOT-BOUND CONTAINER GROWN STOCK WILL BE ACCEPTED. ALL PLASTIC ROOT WRAPPING AND METAL WIRE BASKETS SHALL BE CAREFULLY REMOVED AT THE TIME OF PLANTINGS, EXCEPT WIRE THAT IS DIRECTLY UNDER THE ROOTBALLS.

K. CONTRACTOR SHALL PLACE 2" TO 3" OF FINE SHREDDED, AGED 2 YEARS, DARK BROWN PINE BARK MULCH THROUGHOUT THE BED AREAS. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.





















L. FLOOD PLANTS THOROUGHLY ONCE IMMEDIATELY AFTER PLANTING AND TWICE DURING THE FIRST TWENTY-FOUR HOUR PERIOD AFTER PLANTING.

M. DO NOT WRAP TRUNK OF TREE.

N. THE CONTRACTOR SHALL MAINTAIN THE PLANTS FOR A MINIMUM OF 60 DAYS FOLLOWING INSTALLATION, OR LONGER IF CONTRACTED BY THE OWNER. BEFORE THE END OF THE 60-DAY PERIOD, THE CONTRACTOR SHALL PROVIDE A WRITTEN MAINTENANCE OUTLINE TO THE OWNERS AND THE CONTRACTOR SHALL BE AVAILABLE TO ANSWER QUESTIONS OR CONCERNS AT THAT TIME.

O. THE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A MINIMUM OF ONE YEAR FROM FINAL ACCEPTANCE BY OWNER/REP. THE CONTRACTOR SHALL REPLACE ANY DEAD MATERIALS AT HIS/HER OWN EXPENSE.

LEGEND

- STONE BOUND W/D.H. 
- CATCH BASIN 
- DOUBLE CATCH BASIN 
- DRAIN MANHOLE 
- OUTLET STRUCTURE 
- SEWER MANHOLE 
- UTILITY POLE 
- WETLAND FLAG 
- PROPOSED WATER GATE VALVE 
- EXISTING HYDRANT 
- PROPOSED HYDRANT 
- EXISTING WELL 
- CURB 
- DRAIN LINE 
- UTILITY LINE 
- SEWER LINE 
- WATER LINE 
- GUARDRAIL 
- STONEWALL 
- TREE LINE 

ABBREVIATIONS

BITUMINOUS	BIT.
CONCRETE	CONC.
CAPE COD BERM	CCB
SLOPED GRANITE CURB	SGC
VERTICAL GRANITE CURB	VGC
PRECAST CONCRETE CURB	PC
TOP CURB	BC
BOTTOM CURB	BC
ELEVATION	ELEV.
EXISTING	EXIST.
HIGH DENSITY POLYETHYLENE PIPE	HDPE
INVERT	INV.
RADIUS	R=
HANDICAP	HC
NOW OR FORMERLY	N/F
PLAN BOOK	P.B.
PAGE	P.G.
PLAN	PL
TYPICAL	TYP.
TEMPORARY BENCHMARK	TBM
NOT TO SCALE	N.T.S.
SEWAGE DISPOSAL SYSTEM	SDS



Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
Uxbridge, Massachusetts 01569
P: 508-278-3897 F: 508-278-2289

500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:10 am, Jan 04, 2019

BEING A MAJORITY

DATE:

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

PROJECT:

APPLICANT:

REVISIONS

NO.	DATE	DESCRIPTION
1	9/17/18	PER REVIEW COMMENTS.
2	10/02/18	PER REVIEW COMMENTS.

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DRAWN BY TRB, RJF

CHECKED BY RMM, BJA

DATE MAY 15, 2018

PROJECT NO. 2017-395

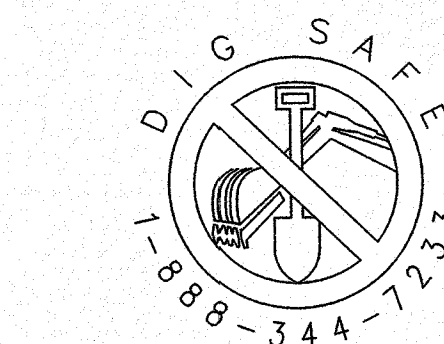
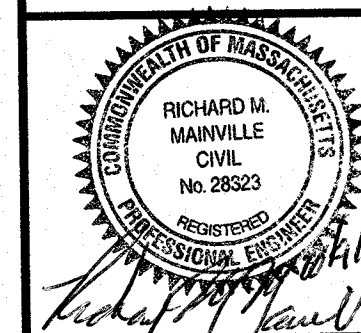
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LEGEND,
ABBREVIATIONS &
GENERAL NOTES

DRAWING NO.

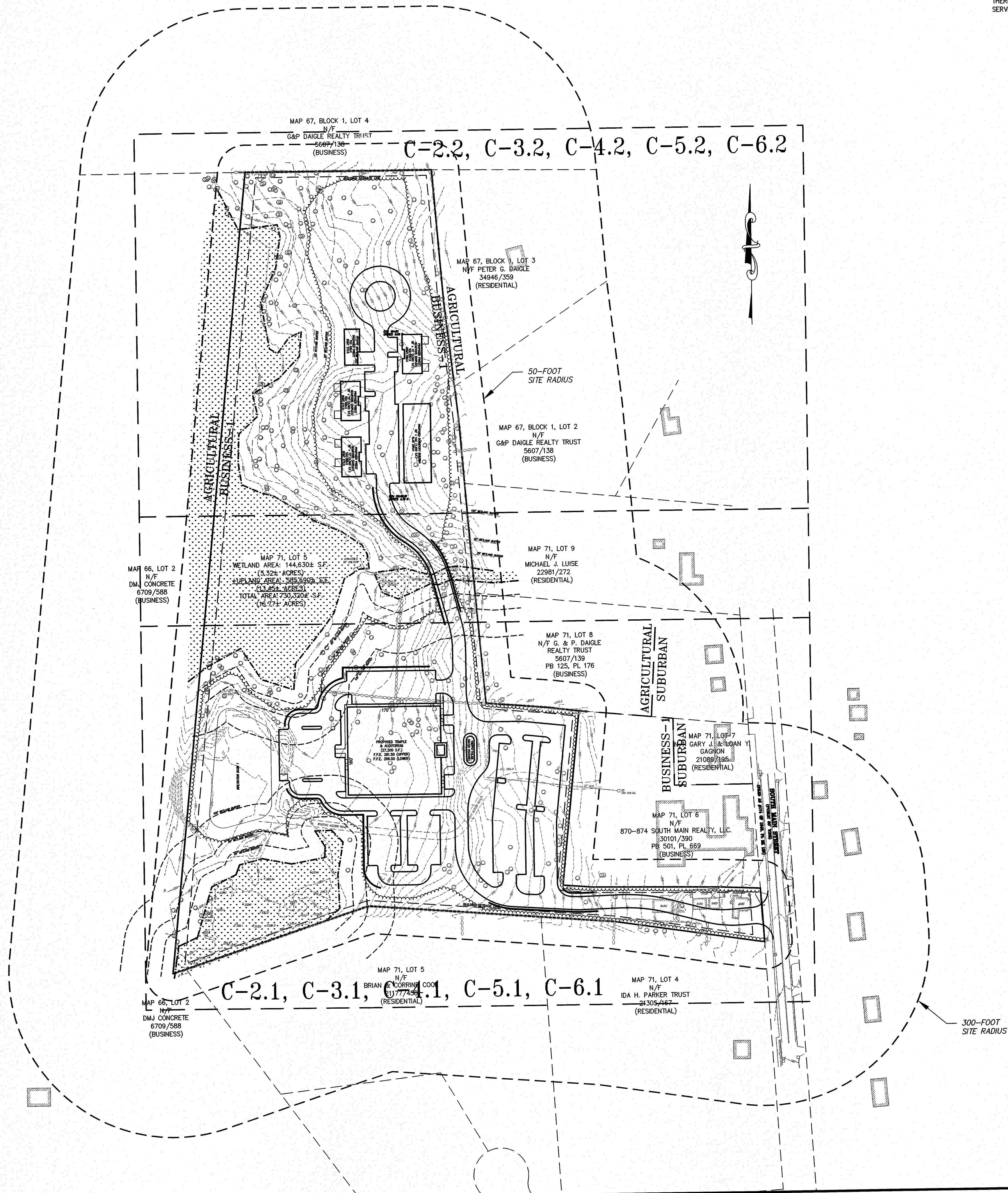
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PLAN NO. L-5506



IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION

DIGSAFE IS TO BE NOTIFIED 72 WORKING HOURS IN ADVANCE OF CONSTRUCTION.
DIGSAFE 1-888-344-7233



NOTE:
1. APPROXIMATE LOCATION OF BUILDINGS WITHIN 300 FEET OF THE SITE ARE SHOWN.
THERE ARE NO WELLS WITHIN 300 FEET OF THE SITE. ABUTTING PROPERTIES ARE
SERVICED BY MUNICIPAL WATER PER BELLINGHAM WATER DEPARTMENT.



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North Attleboro, Massachusetts 02760
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BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:10 am, Jan 04, 2019

BEING A MAJORITY

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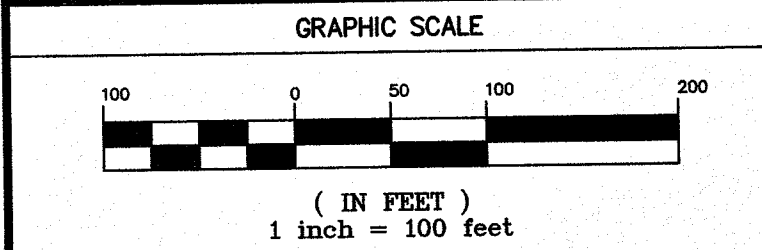
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866 SOUTH MAIN STREET
BELLINGHAM, MA

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

PROJECT:

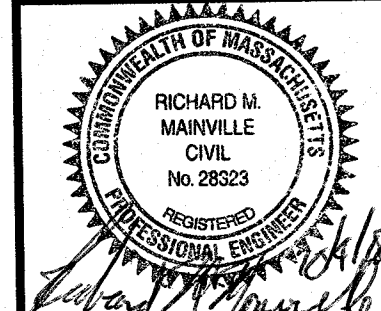
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2	10/02/18	PER REVIEW COMMENTS.
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DRAWN BY	TRB, RJF	
CHECKED BY	RMM, BJA	
DATE	MAY 15, 2018	
PROJECT NO.	2017-395	



SHEET TITLE

INDEX SHEET



DRAWING NO.

C-1.1

PLAN NO. L-5506

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MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

MAP 71, LOT 9
N/F
MICHAEL J. LUISE
22981/272
(RESIDENTIAL)

MAP 71, LOT 8
N/F G. & P. DAIGLE
REALTY TRUST
5607/139
PB 125, PL 176
(BUSINESS)

MAP 71, LOT 7
N/F GARY J. &
LOAN Y. CAGNON
21089/195
(RESIDENTIAL)

MAP 71, LOT 6
N/F
870-874 SOUTH MAIN REALTY, LLC.
30101/390
PB 501, PL 669
(BUSINESS)

MAP 71, LOT 4
N/F
IDA H. PARKER TRUST
21305/167
(RESIDENTIAL)

MAP 71, LOT 5
N/F
BRIAN & CORRINE COOK
21177/458
(RESIDENTIAL)

NOTICE TO CONTRACTOR: THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.

MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

SOIL TEST PIT RESULTS (MAY 9, 2018)
PERFORMED BY: JOHN MADEIROS, SE2849
WITNESSED BY: MIKE CATALANO, BOARD OF HEALTH

509-1
0-4" SANDY LOAM
4-36" SAND
36-120" GRAVELLY SAND
NO MOTTLING
GROUNDWATER @ 84"
WEeping @ 84"
STANDING WATER @ 96"
ESHWGT @ 84"
REFUSAL @ >120"

509-3
0-34" FILL
34-108" GRAVELLY SAND
NO MOTTLING
GROUNDWATER @ 62"
WEeping @ 62"
STANDING WATER @ 64"
ESHWGT @ 62"
REFUSAL @ >108"

SOIL TEST PIT RESULTS (OCTOBER 4, 2018)
PERFORMED BY: JOHN MADEIROS, SE2849
WITNESSED BY: MIKE CATALANO, BOARD OF HEALTH

10-4-18-1
0-4" FINE SANDY LOAM
4-20" FINE SANDY LOAM
20-84" SAND
NO MOTTLING
GROUNDWATER @ 24"
WEeping @ 24"
STANDING WATER @ 80"
ESHWGT @ 24"
REFUSAL @ >84"

10-4-18-3
0-5" FINE SANDY LOAM
5-24" FINE SANDY LOAM
24-80" SAND
NO MOTTLING
GROUNDWATER @ 26"
WEeping @ 26"
STANDING WATER @ 78"
ESHWGT @ 26"
REFUSAL @ >80"

ASE

Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

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P: 508-278-3897 F: 508-278-2289

500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:10 am, Jan 04, 2019

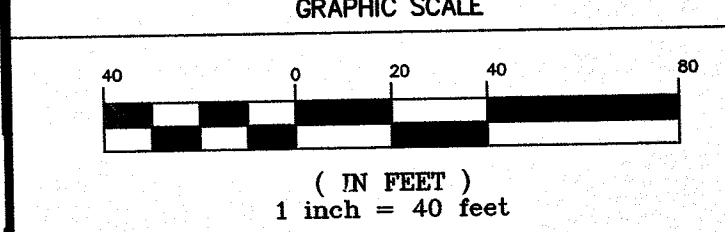
BEING A MAJORITY

DATE:

PROJECT:

REVISIONS		
NO.	DATE	DESCRIPTION
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2	10/02/18	PER REVIEW COMMENTS.

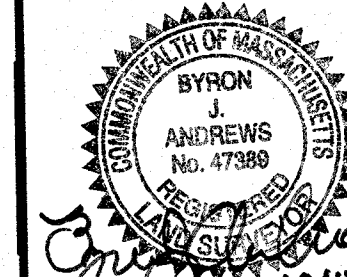
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DRAWN BY	TRB, R/J
CHECKED BY	RMM, BJA
DATE	MAY 15, 2018
PROJECT NO.	2017-395



SHEET TITLE

EXISTING CONDITIONS
& DEMOLITION PLAN

SHEET 1 OF 2



DRAWING NO.

C-2.1

PLAN NO. L-5506

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MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
+UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

MAP 67, BLOCK 1, LOT 3
N/F PETER G. DAIGLE
34946/359
(RESIDENTIAL)

MAP 67, BLOCK 1, LOT 2
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 71, LOT 9
N/F
MICHAEL J. LUISE
22981/272
(RESIDENTIAL)

MAP 67, BLOCK 1, LOT 4
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

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500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:11 am, Jan 04, 2019

BEING A MAJORITY

DATE:

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

PROJECT:

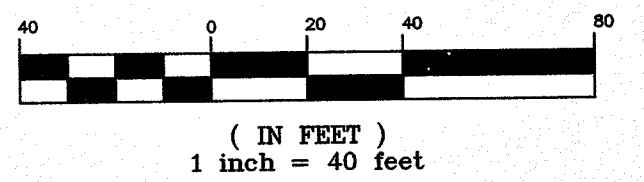
APPLICANT:

REVISIONS

NO.	DATE	DESCRIPTION
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2	10/02/18	PER REVIEW COMMENTS.

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CHECKED BY	RMM, BJA
DATE	MAY 15, 2018
PROJECT NO.	2017-395

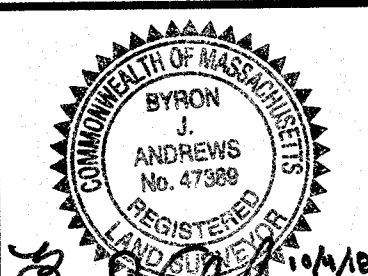
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SHEET TITLE

EXISTING CONDITIONS
& DEMOLITION PLAN

SHEET 2 OF 2



DRAWING NO.

C-2.2

PLAN NO. L-5506

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MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 67, BLOCK 1, LOT 4
N/F
G&P DAIGLE REALTY TRUST
5607/138
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MAP 67, BLOCK 1, LOT 3
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MAP 71, LOT 9
N/F
MICHAEL J. LUISE
22981/272
(RESIDENTIAL)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
+UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

PROPOSED EROSION
CONTROL BARRIER (2)
(LIMIT OF WORK)

SNOW
STORAGE
AREA TYP.

PROPOSED DOMESTIC BUILDING
50' x 144' (7,200 S.F.)

PROPOSED PEST
QUARTERS (DUPLEX)
36' x 72' (2,592 S.F.)
BSM 270.5

PROPOSED PEST
QUARTERS (DUPLEX)
36' x 72' (2,592 S.F.)
BSM 272.5

PROPOSED PEST
QUARTERS (DUPLEX)
36' x 72' (2,592 S.F.)
BSM 270.5

PROPOSED PEST
QUARTERS (DUPLEX)
36' x 72' (2,592 S.F.)
BSM 272.5

PROP. PATIO, TYP.

PROP. 5' WIDE MIN.
SIDEWALK, TYP.

PROP. 5' WIDE
SIDEWALK, TYP.

PROPOSED RET. WALL
& CHAIN LINK FENCE (8')
(BY OTHERS)

MATCHLINE SHEET 1

ASE

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Land Surveying - Civil Engineering - Site Planning

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500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:11 am, Jan 04, 2019

BEING A MAJORITY

DATE:

PROJECT:
PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

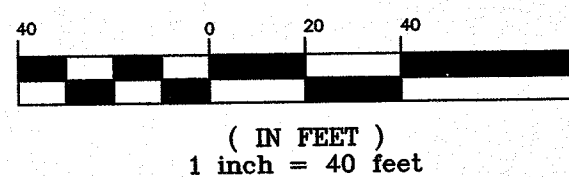
APPLICANT:
SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS

NO.	DATE	DESCRIPTION
1	9/17/18	PER REVIEW COMMENTS.
2	10/02/18	PER REVIEW COMMENTS.

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DRAWN BY	TRB, RJF
CHECKED BY	RMM, BJA
DATE	MAY 15, 2018
PROJECT NO.	2017-395

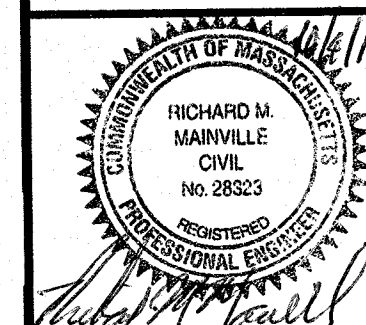
GRAPHIC SCALE



SHEET TITLE

LAYOUT &
MATERIALS PLAN

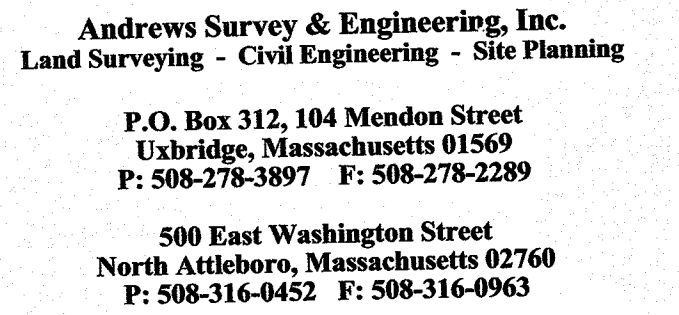
SHEET 2 OF 2



DRAWING NO.

C-3.2

PLAN NO. L-5506



BELLINGHAM PLANNING BOARD

APPROVED

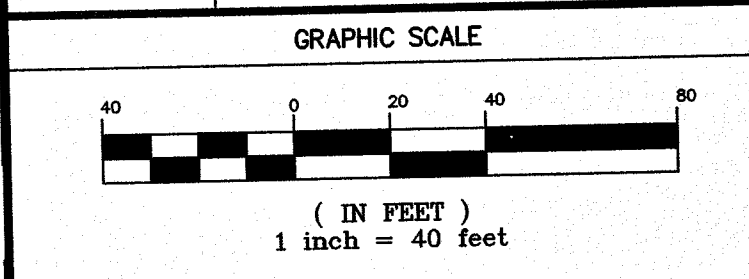
By Bellingham Planning Board at 10:11 am, Jan 04, 2019

BEING A MAJORITY DATE:

PROJECT:	PROPOSED HINDU TEMPLE 866 SOUTH MAIN STREET BELLINGHAM, MA
APPLICANT:	SRI SHIVA TEMPLE, INC. 15 NORTH MAIN STREET BELLINGHAM, MA 02019

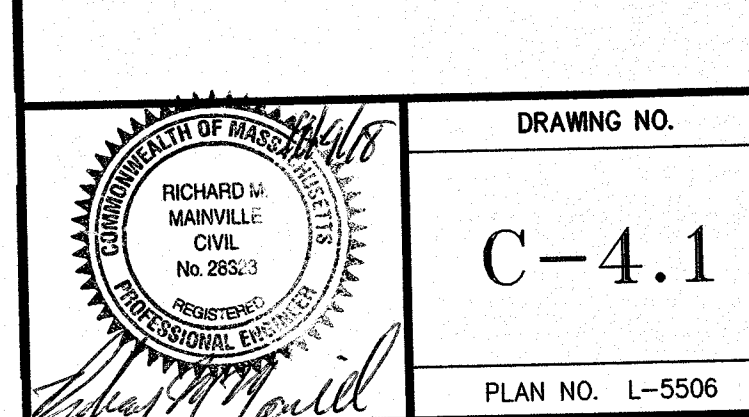
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CHECKED BY	RMM, BJA
DATE	MAY 15, 2018
PROJECT NO.	2017-395



SHEET TITLE

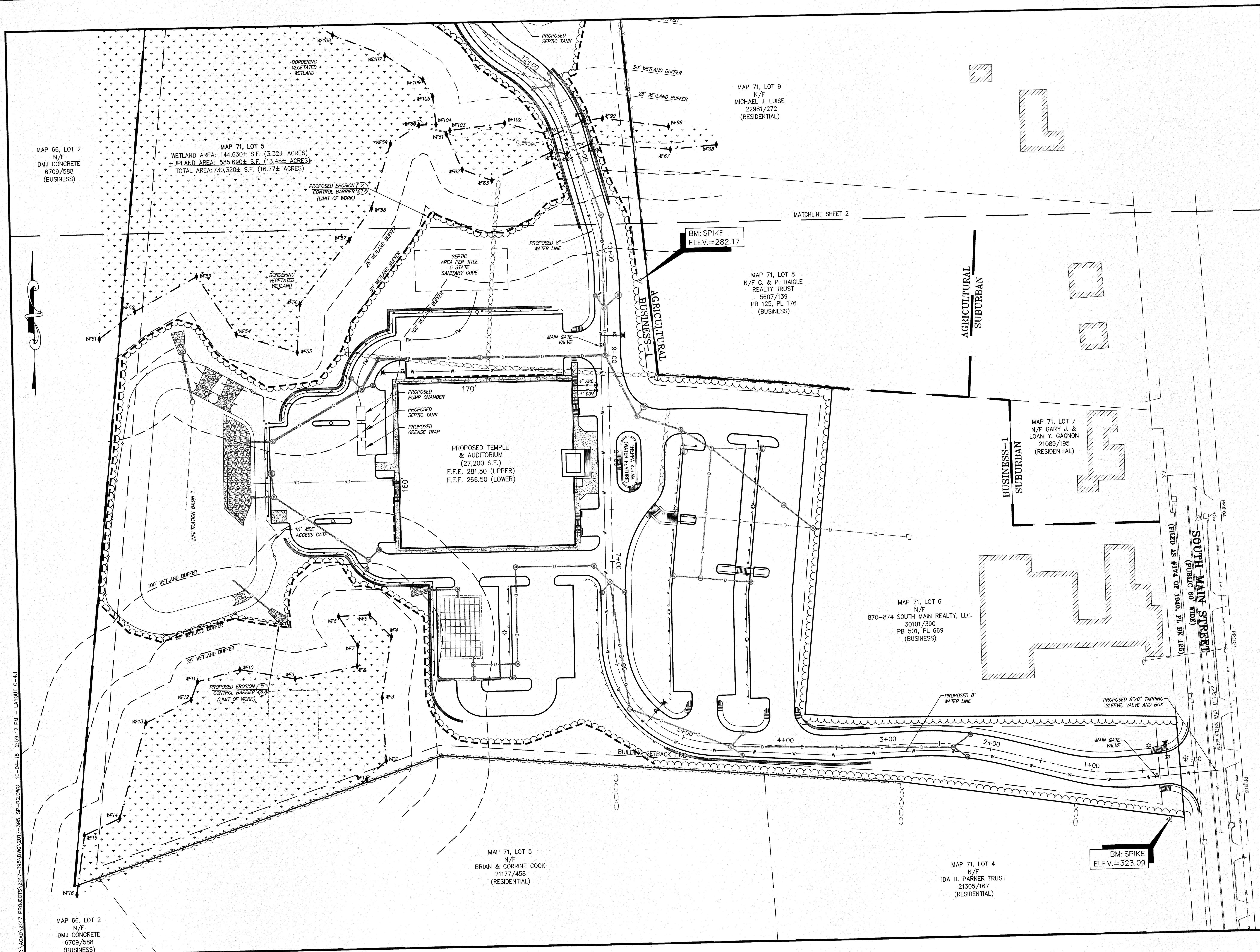
UTILITY PLAN
SHEET 1 OF 2



DRAWING NO.

C-4.1

PLAN NO. L-5506



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MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
+ UPLAND AREA: 585,680± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

MAP 67, BLOCK 1, LOT 4
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 67, BLOCK 1, LOT 3
N/F PETER G. DAIGLE
34946/359
(RESIDENTIAL)

MAP 67, BLOCK 1, LOT 2
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 71, LOT 9
N/F
MICHAEL J. LUISE
22981/272
(RESIDENTIAL)

ASE

Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
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BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:11 am, Jan 04, 2019

BEING A MAJORITY

DATE:

PROJECT:
PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

APPLICANT:
SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS

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2	10/02/18	PER REVIEW COMMENTS.

CAD FILE ...\\dwg\2017-395_SP.dwg

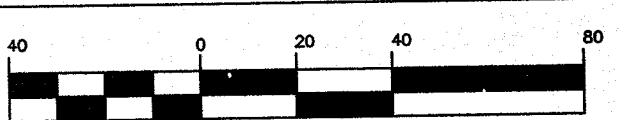
DRAWN BY TRB, RJF

CHECKED BY RMM, BJA

DATE MAY 15, 2018

PROJECT NO. 2017-395

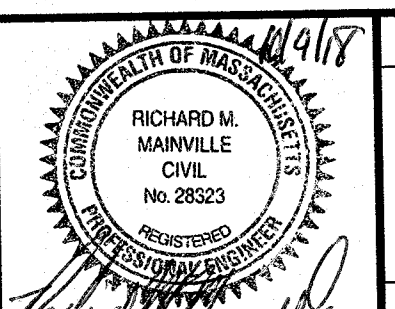
GRAPHIC SCALE



(IN FEET)
1 inch = 40 feet

SHEET TITLE

UTILITY PLAN
SHEET 2 OF 2



DRAWING NO.

C-4.2

PLAN NO. L-5506

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866 SOUTH MAIN STREET
BELLINGHAM, MA

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

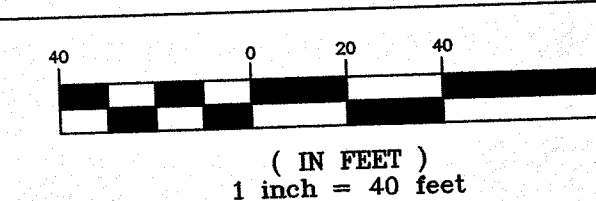
APPLICANT:

REVISIONS

NO.	DATE	DESCRIPTION
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CHECKED BY: RMM, BJA
DATE: MAY 15, 2018
PROJECT NO.: 2017-395

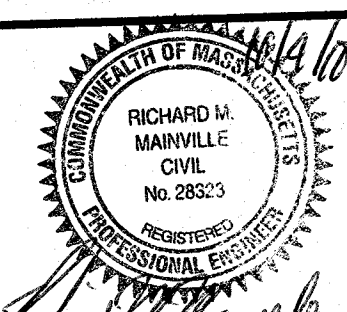
GRAPHIC SCALE



SHEET TITLE

GRADING &
DRAINAGE PLAN

SHEET 1 OF 2



DRAWING NO.

C-5.1

PLAN NO. L-5506

PIPE SCHEDULE

NAME	SIZE/TYPE	LENGTH	SLOPE
D1	12" HDPE	18.1'	2.93%
D2	12" HDPE	72.0'	4.03%
D3	12" HDPE	94.3'	3.34%
D4	12" HDPE	38.9'	3.73%
D5	12" HDPE	29.5'	0.51%
D6	12" HDPE	34.5'	2.90%
D7	12" HDPE	5.0'	2.00%
D8	12" HDPE	6.0'	3.33%
D9	18" HDPE	4.0'	1.25%
D10	18" HDPE	30.5'	2.30%
D11	12" HDPE	5.4'	1.46%
D12	12" HDPE	10.0'	0.80%
D13	12" HDPE	106.1'	1.32%
D14	12" HDPE	18.1'	0.77%
D15	12" HDPE	24.0'	1.04%
D16	24" HDPE	24.0'	1.25%
D17	24" HDPE	95.3'	1.43%
D18	12" HDPE	9.9'	0.91%
D19	12" HDPE	6.7'	1.34%
D20	24" HDPE	28.3'	1.38%
D21	24" HDPE	95.2'	1.47%
D22	24" HDPE	117.3'	1.53%
D23	18" HDPE	63.1'	2.06%
D24	12" HDPE	6.6'	2.12%
D25	15" HDPE	40.1'	2.99%
D26	12" HDPE	16.3'	4.05%
D27	15" HDPE	30.9'	2.62%
D28	12" HDPE	44.2'	4.09%
D29	12" HDPE	85.3'	3.12%
D30	12" HDPE	122.0'	2.86%
D31	12" HDPE	22.0'	0.77%
D32	12" HDPE	45.0'	2.22%
D33	12" HDPE	42.5'	0.94%

DRAIN SCHEDULE

CB7 RIM 270.63 INV. OUT 284.50	DCB14 RIM 275.95 INV. OUT 272.95	DMH5 RIM 277.70 INV. IN 274.00 (DMH4) INV. OUT 271.00 (DMH6)	DMH10 RIM 264.15 INV. IN 260.15 (DMH11) INV. OUT 260.05 (F33)	DMH17 RIM 280.91 INV. IN 277.91 (DCB16) INV. IN 277.91 (DMH18) INV. OUT 274.91 (DMH16)
CB8 RIM 266.65 INV. OUT 263.65	DCB15 RIM 280.90 INV. OUT 275.96	DMH6 RIM 273.10 INV. IN 268.10 (DMH5) INV. OUT 268.00 (DMH7A)	DMH11 RIM 265.61 INV. IN 261.61 (DMH12) INV. IN 262.61 (CB12) INV. IN 262.61 (CB13) INV. OUT 261.51 (DMH10)	DMH18 RIM 287.50 INV. IN 284.50 (DMH19) INV. OUT 281.40 (DMH17)
CB9 RIM 265.54 INV. OUT 262.33	DCB16 RIM 284.90 INV. OUT 278.50	DMH7A RIM 271.20 INV. IN 264.85 (DMH6) INV. OUT 264.75 (HDS)	DMH12 RIM 266.50 INV. IN 262.10 (DMH13) INV. OUT 262.00 (DMH11)	DMH19 RIM 294.50 INV. IN 291.50 (EX. CB) INV. OUT 285.50 (DMH18)
CB10 RIM 265.33 INV. OUT 262.33	CB17 RIM 284.67 INV. OUT 281.67	DMH7B RIM 267.68 INV. IN 263.50 (CB7) INV. IN 263.50 (CB8) INV. OUT 263.40 (HDS)	DMH13 RIM 270.20 INV. IN 266.20 (DMH14) INV. OUT 263.50 (DMH12)	DMH20 RIM 285.18 INV. IN 281.50 (CB17) INV. IN 281.50 (CB18) INV. OUT 281.40 (DMH17)
DCB11 RIM 263.89 INV. OUT 260.89	CB18 RIM 290.30 INV. OUT 282.50	DMH7C RIM 270.00 INV. IN 263.30 (NF28) INV. OUT 260.30 (F33)	DMH14 RIM 276.15 INV. IN 271.25 (DMH15) INV. OUT 268.00 (DMH13)	DMH21 RIM 275.71 INV. IN 271.35 (CB19) INV. IN 271.35 (CB20) INV. OUT 270.85 (DMH22)
CB12 RIM 265.70 INV. OUT 262.70	CB19 RIM 265.70 INV. OUT 262.70	DMH8 RIM 265.51 INV. IN 262.25 (CB9) INV. IN 262.25 (CB10) INV. OUT 262.15 (DMH9)	DMH15 RIM 276.06 INV. IN 272.81 (DCB14) INV. IN 272.80 (DMH16) INV. OUT 272.55 (DMH14)	HDS RIM 267.80 INV. IN 263.30 (DMH7A) INV. IN 263.30 (DMH7B) INV. OUT 263.20 (NF2A)
CB13 RIM 265.70 INV. OUT 262.70		DMH9 RIM 264.15 INV. IN 260.75 (DCB11) INV. IN 260.75 (DMH8) INV. OUT 260.65 (F33)	DMH16 RIM 276.30 INV. IN 275.30 (DCB15) INV. IN 274.10 (DMH17) INV. OUT 274.00 (DMH15)	

MATCHLINE SHEET 2

MAP 71, LOT 8
N/F G. & P. DAIGLE
REALTY TRUST
5607/139
PB 125, PL 176
(BUSINESS)

AGRICULTURAL
SUBURBAN

BUSINESS-1
SUBURBAN

MAP 71, LOT 7
N/F GARY J. &
LOAN Y. GAGNON
21089/195
(RESIDENTIAL)

MAP 71, LOT 6
N/F
870-874 SOUTH MAIN REALTY, LLC.
30101/390
PB 501, PL 669
(BUSINESS)

MAP 71, LOT 5
N/F
BRIAN & CORRINE COOK
21177/458
(RESIDENTIAL)

MAP 71, LOT 4
N/F
IDA H. PARKER TRUST
21305/167
(RESIDENTIAL)

MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

F:\ACAD\2017 PROJECTS\2017-395.DWG 2017-395_SP-42.DWG 10-04-18 4:12:57 PM - LAYOUT C-5.2

MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
+ UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

MAP 67, BLOCK 1, LOT 4
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 67, BLOCK 1, LOT 3
N/F PETER G. DAIGLE
34946/359
(RESIDENTIAL)

MAP 67, BLOCK 1, LOT 2
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 71, LOT 9
N/F
MICHAEL J. LUISE
22981/272
(RESIDENTIAL)

DRAIN SCHEDULE

DMH27
RIM 266.30
INV. IN 278.00 (HW)
INV. OUT 274.00 (DMH28)

DMH28
RIM 279.00
INV. IN 272.50 (DMH27)
INV. OUT 268.50 (FEST)



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BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:12 am, Jan 04, 2019

BEING A MAJORITY

DATE:

PROJECT:
PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

APPLICANT:
SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS

NO.	DATE	DESCRIPTION
1	9/17/18	PER REVIEW COMMENTS.
2	10/02/18	PER REVIEW COMMENTS.

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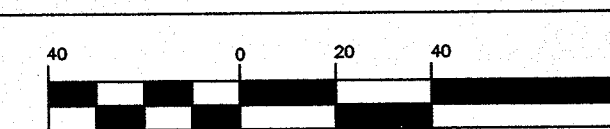
DRAWN BY TRB, RJF

CHECKED BY RMM, BJA

DATE MAY 15, 2018

PROJECT NO. 2017-395

GRAPHIC SCALE

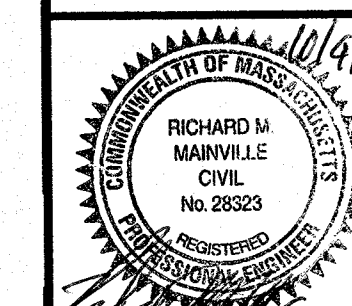


(IN FEET)
1 inch = 40 feet

SHEET TITLE

GRADING &
DRAINAGE PLAN

SHEET 2 OF 2



DRAWING NO.

C-5.2

PLAN NO. L-5506

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Land Surveying - Civil Engineering - Site Planning

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BELLINGHAM PLANNING BOARD

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BELLINGHAM, MA

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BELLINGHAM, MA 02019

PROJECT:

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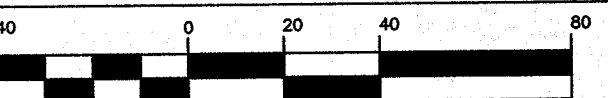
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CHECKED BY RMM, BJA

DATE MAY 15, 2018

PROJECT NO. 2017-395

GRAPHIC SCALE

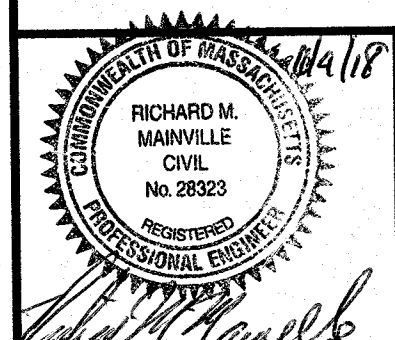


(IN FEET)
HORIZONTAL: 1 inch = 40 feet
VERTICAL: 1 inch = 4 feet

SHEET TITLE

PLAN & PROFILE
STA. 0+00 - 7+00

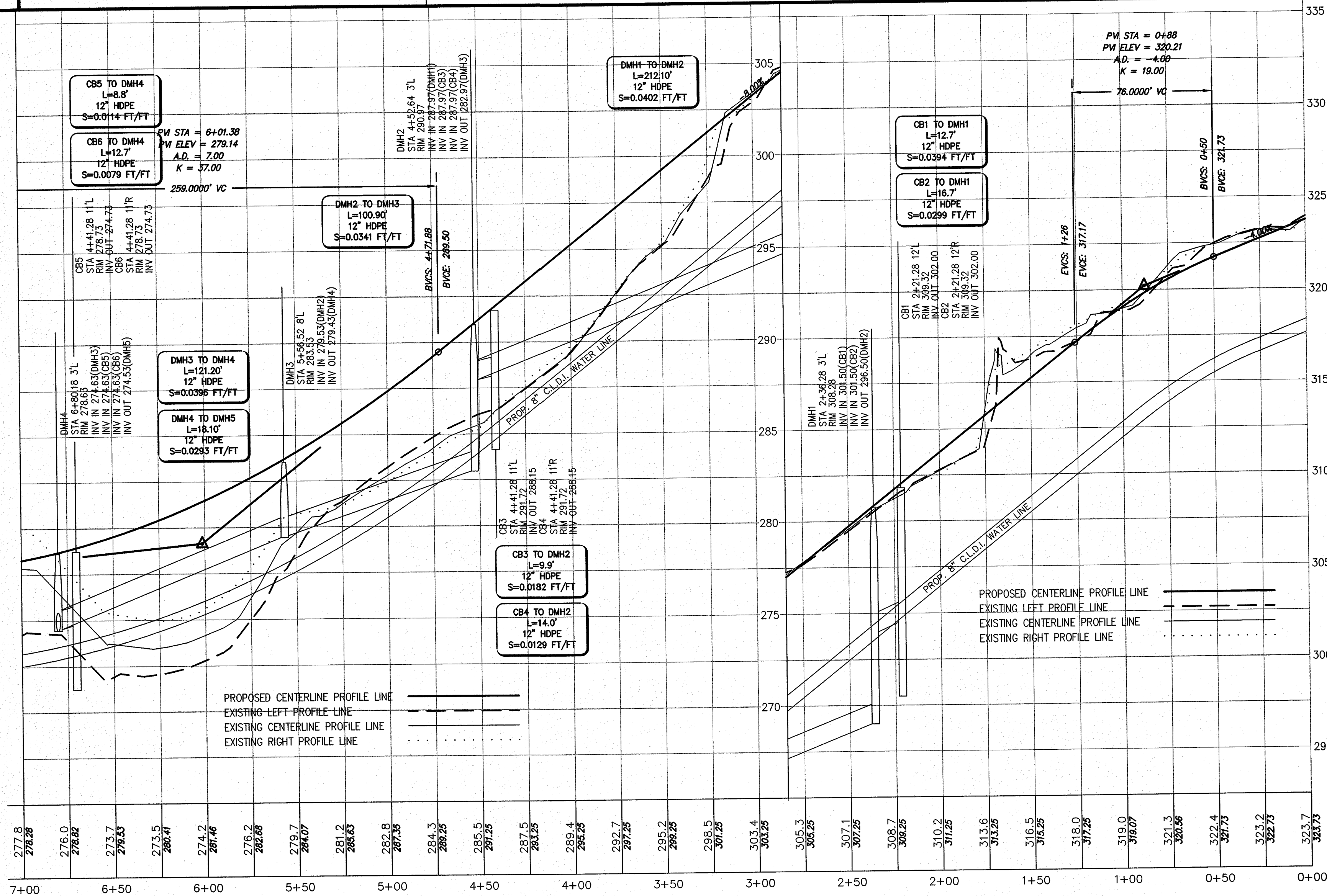
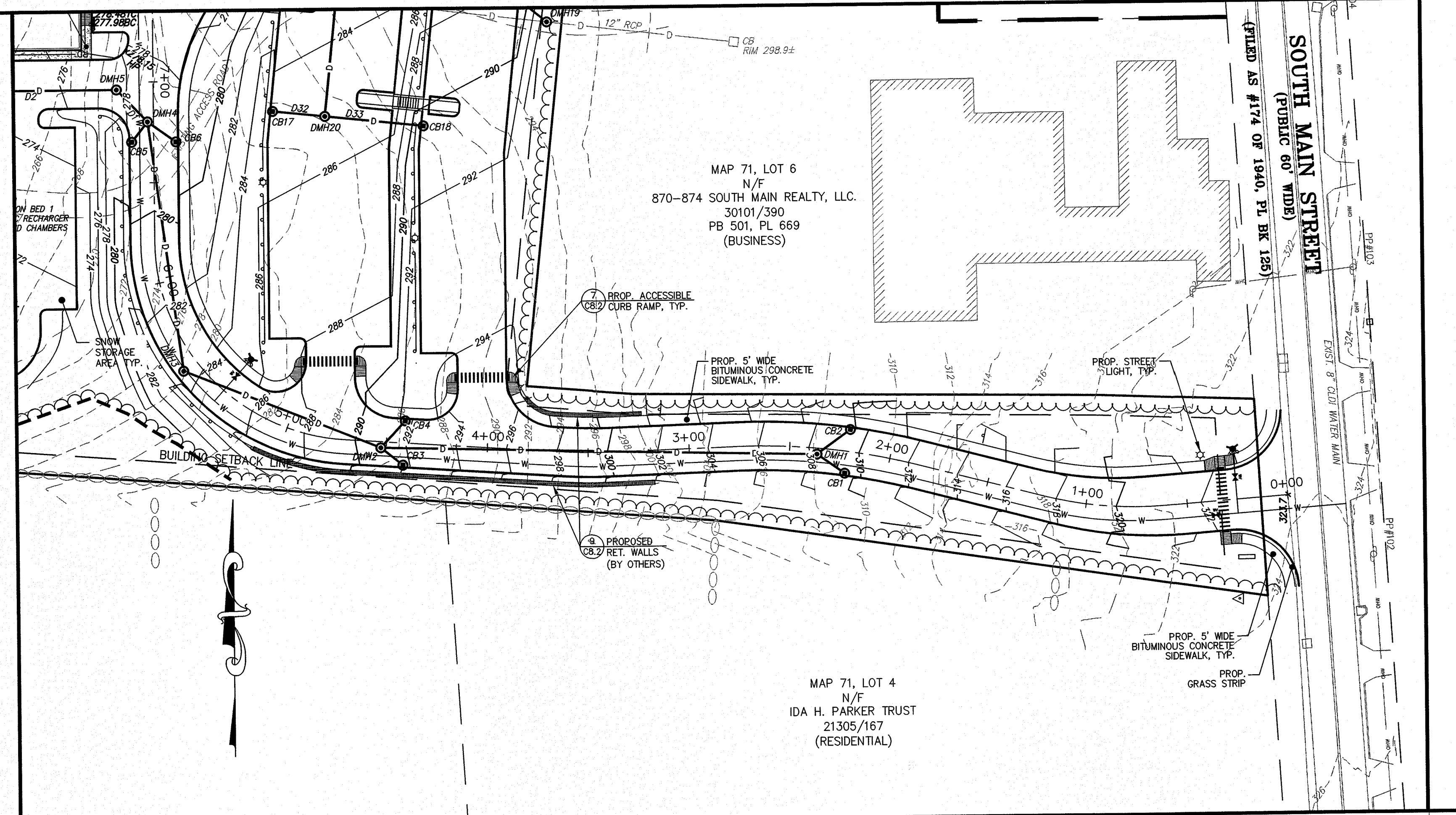
SHEET 1 OF 2



DRAWING NO.

C-6.1

PLAN NO. L-5506



BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:12 am, Jan 04, 2019

BEING A MAJORITY

DATE: _____

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

RSRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

PROJECT:

APPLICANT:

REVISIONS		
NO.	DATE	DESCRIPTION
1	9/17/18	PER REVIEW COMMENTS.
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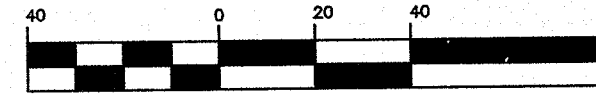
DRAWN BY TRB, RJF

CHECKED BY	RMM, BJA
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DATE	MAY 15, 2018
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PROJECT NO.	2017-395
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GRAPHIC SCALE

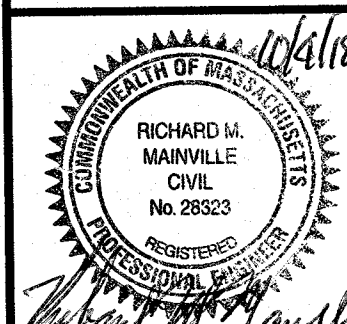


(IN FEET)
HORIZONTAL: 1 inch = 40 feet
VERTICAL: 1 inch = 4 feet

SHEET TITLE

PLAN & PROFILE
STA. 7+00 - END

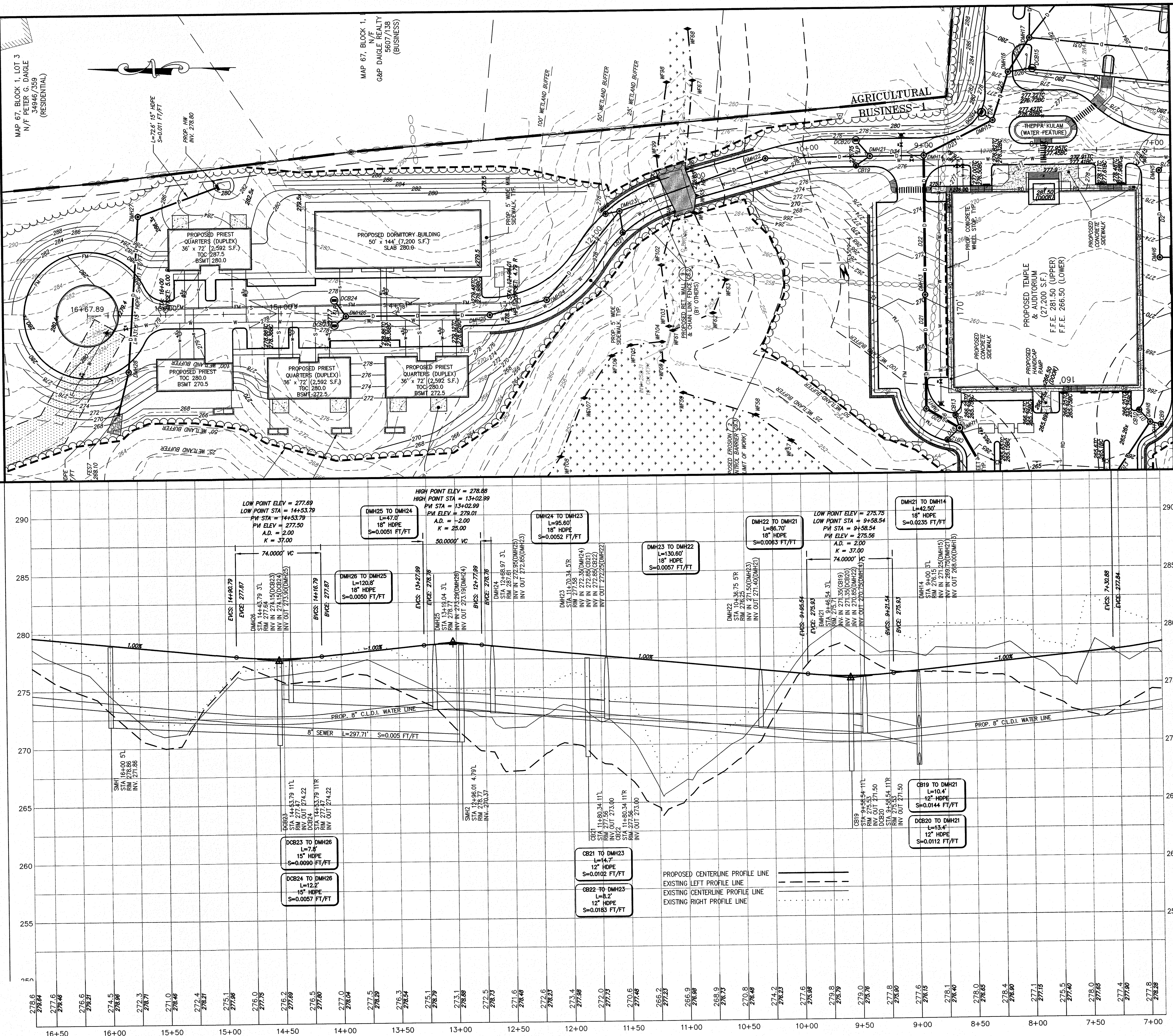
SHEET 2 OF 2



DRAWING NO.

C-6.2

PLAN NO. L-5506



F:\ACAD\2017 PROJECTS\2017-395.DWG 10-04-18 4:12:18 PM - LAYOUT C-7.2

MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
+UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

MAP 67, BLOCK 1, LOT 4
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 67, BLOCK 1, LOT 3
N/F PETER G. DAIGLE
34946/359
(RESIDENTIAL)

MAP 67, BLOCK 1, LOT 2
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 71, LOT 9
N/F
MICHAEL J. LUISE
22981/272
(RESIDENTIAL)

ASE

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Land Surveying - Civil Engineering - Site Planning

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BELLINGHAM PLANNING BOARD

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BELLINGHAM, MA

APPLICANT:
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15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS

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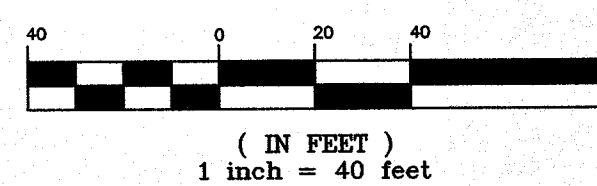
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PROJECT NO. 2017-395

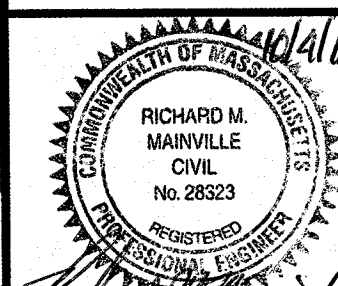
GRAPHIC SCALE



SHEET TITLE

LANDSCAPING &
LIGHTING PLAN

SHEET 2 OF 2



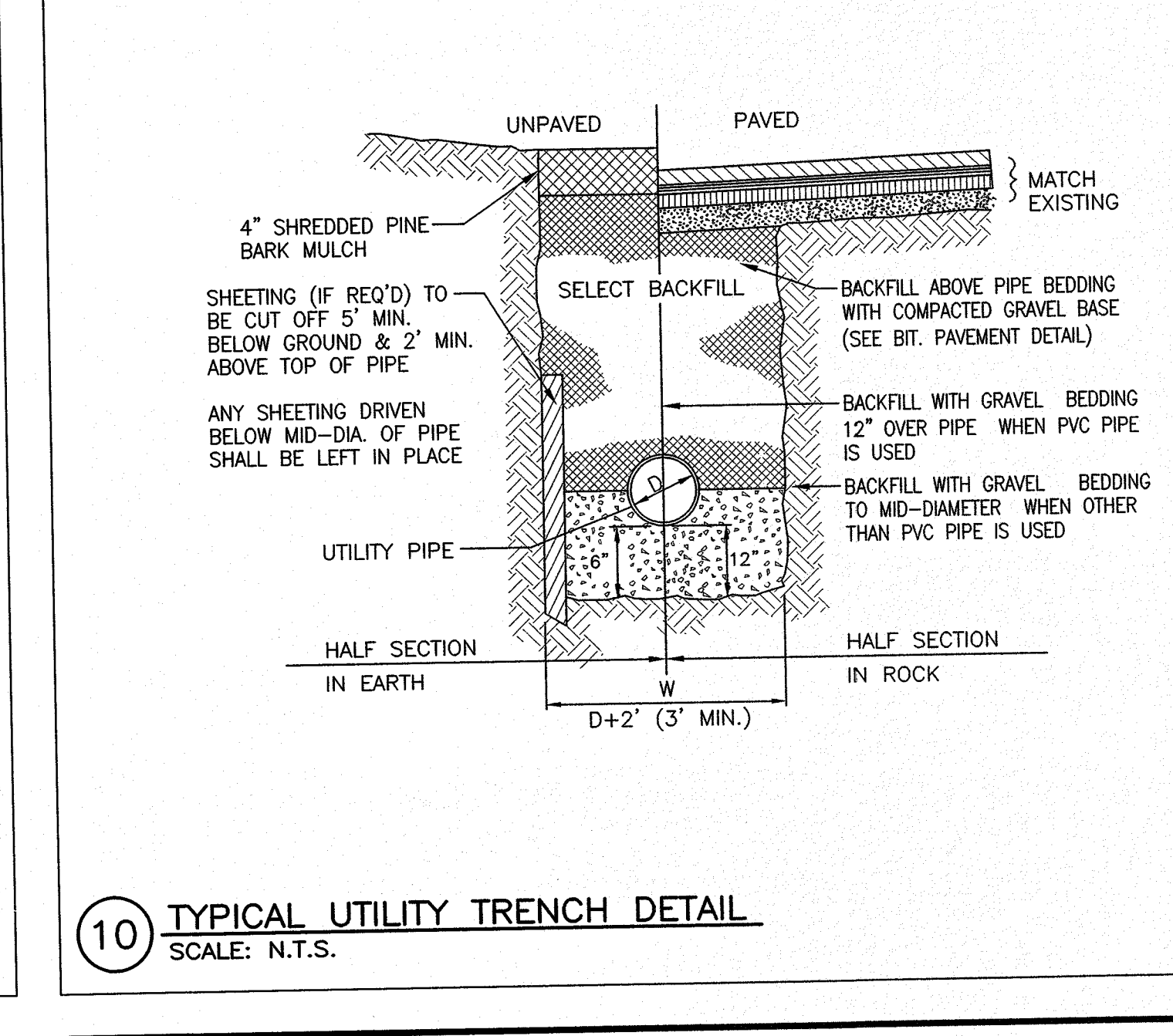
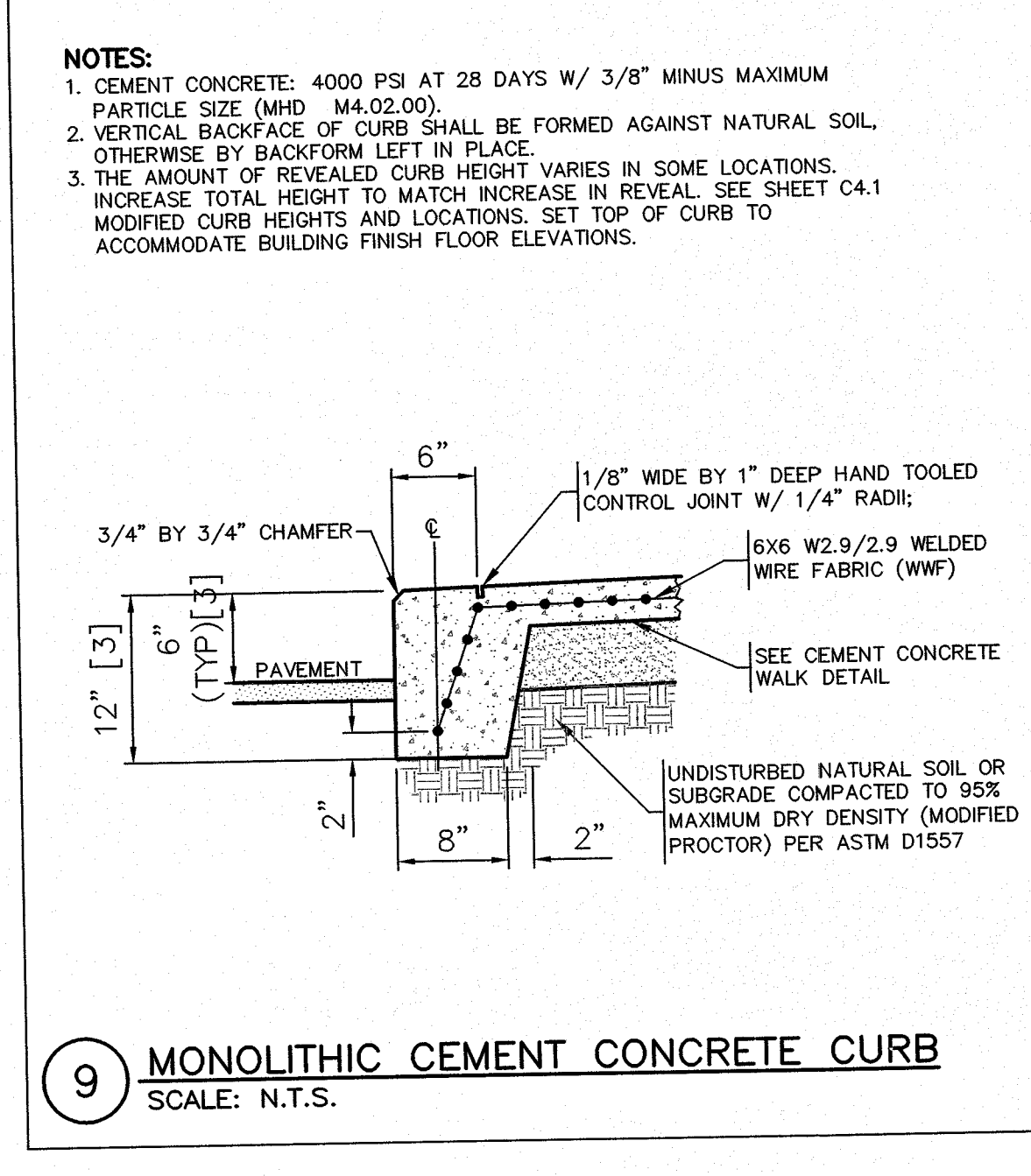
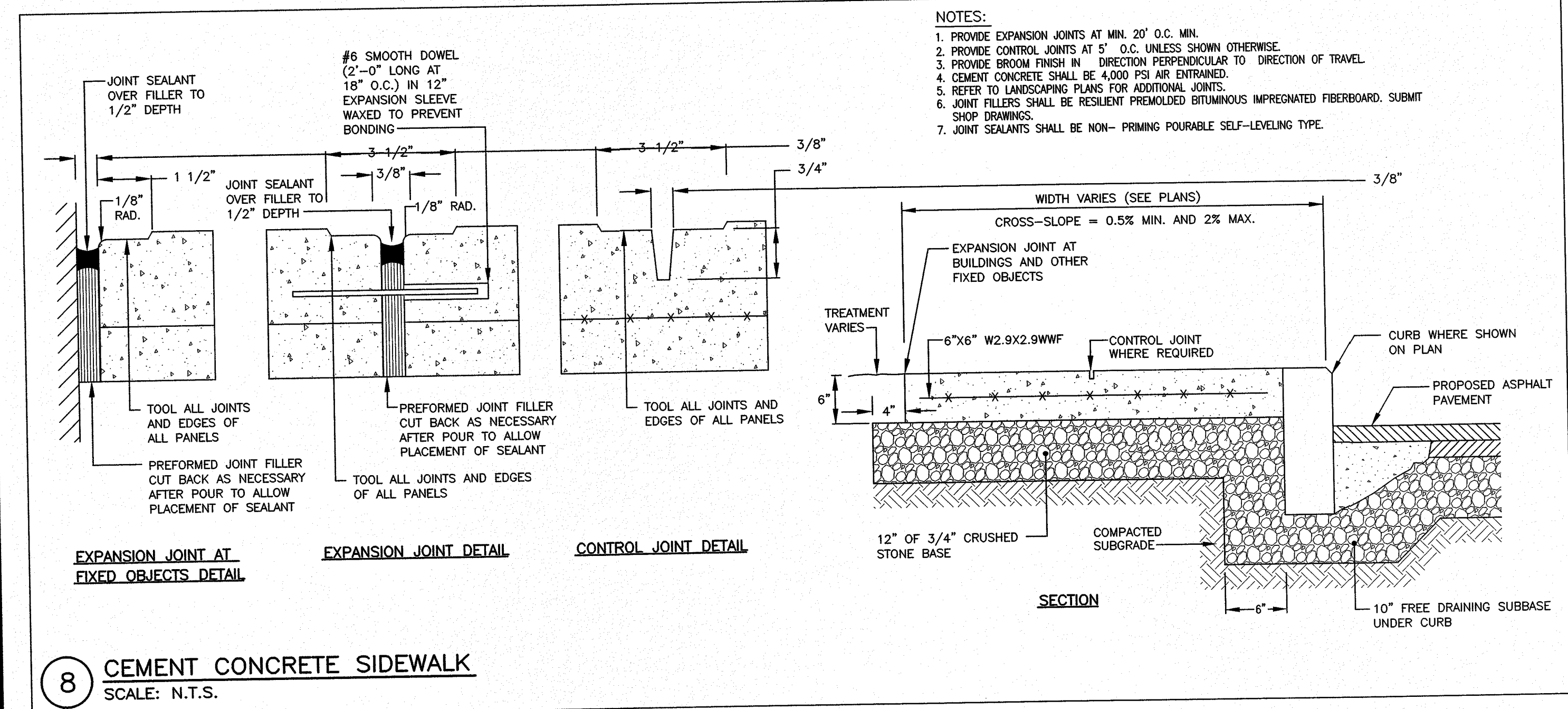
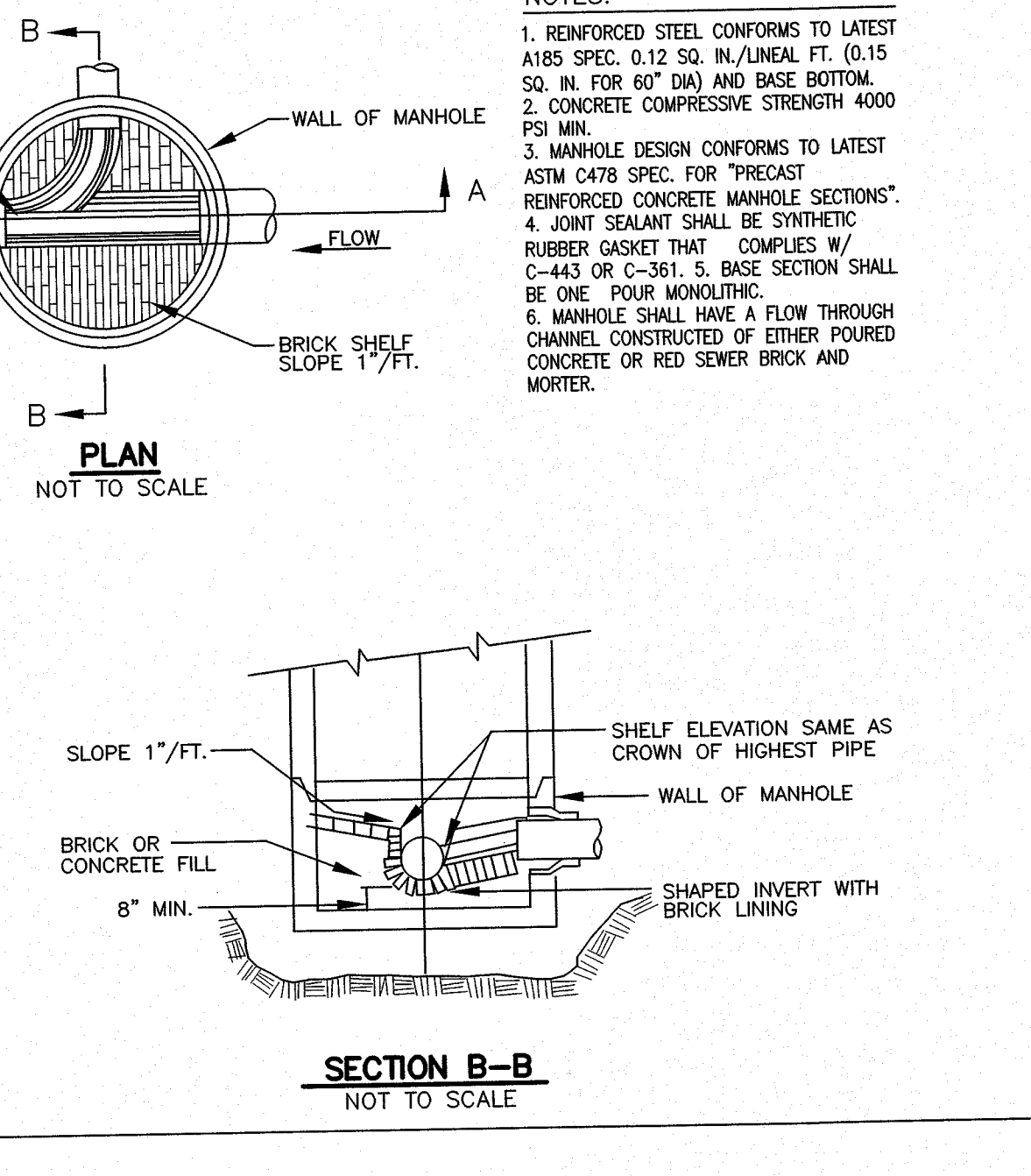
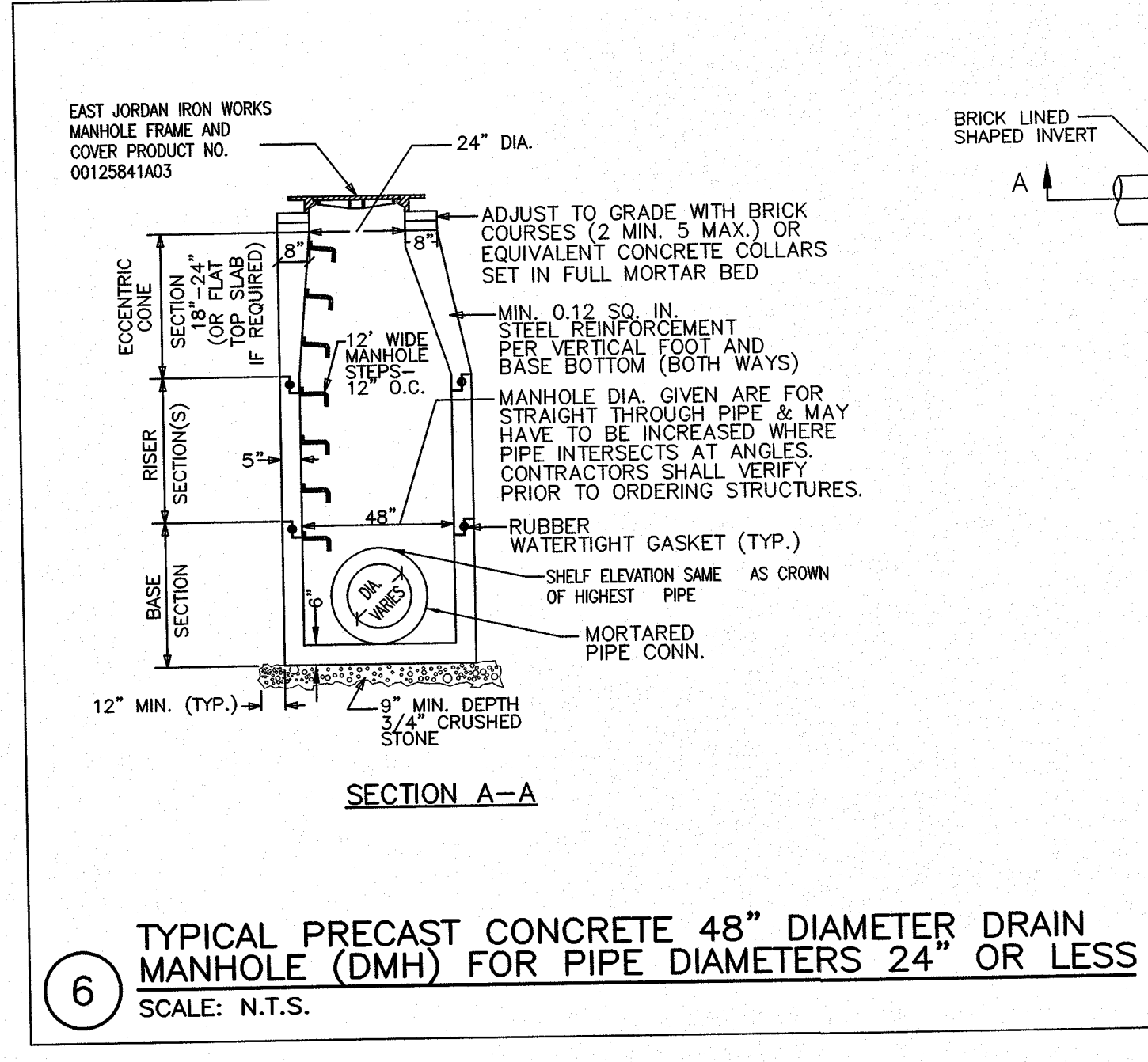
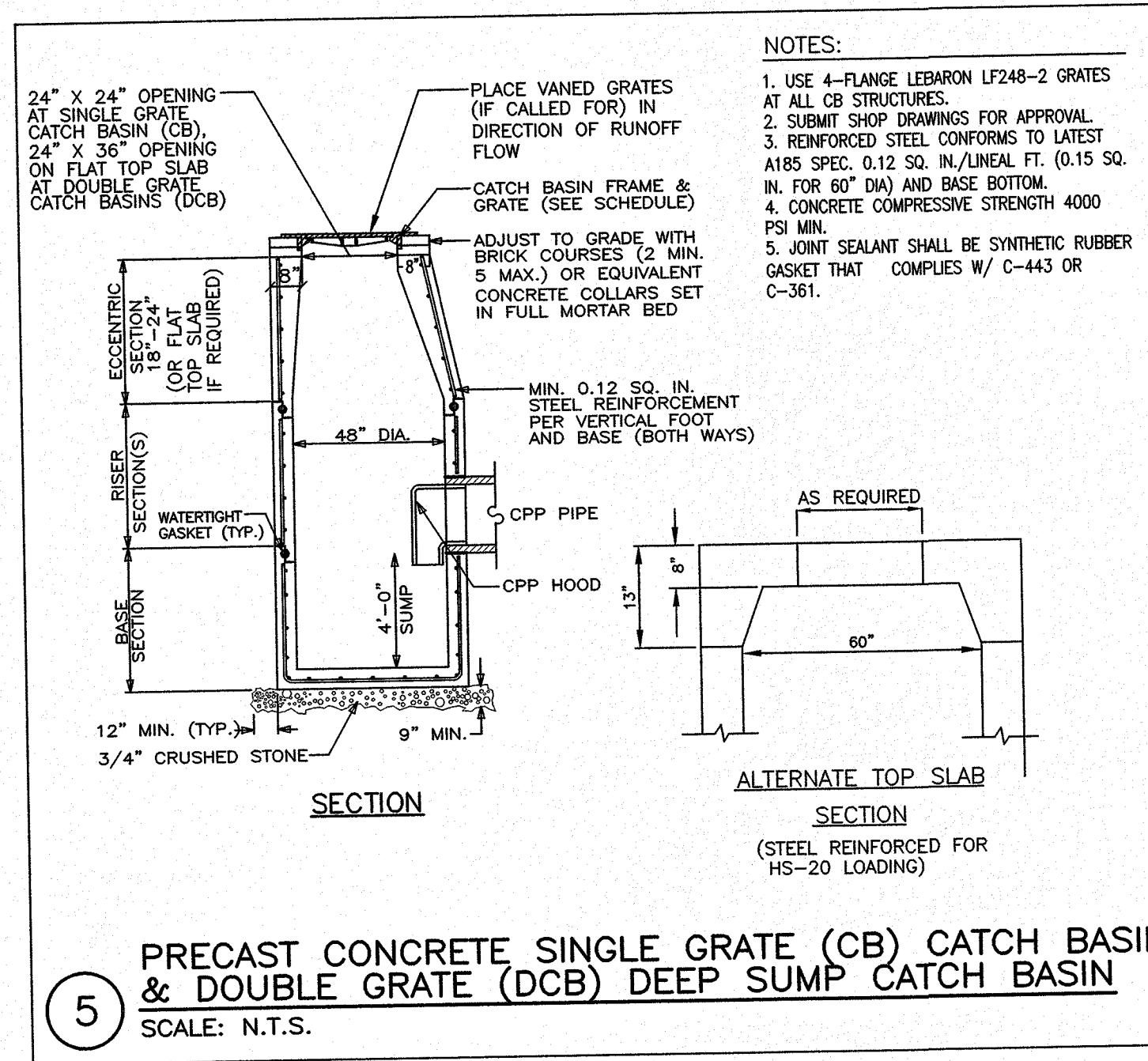
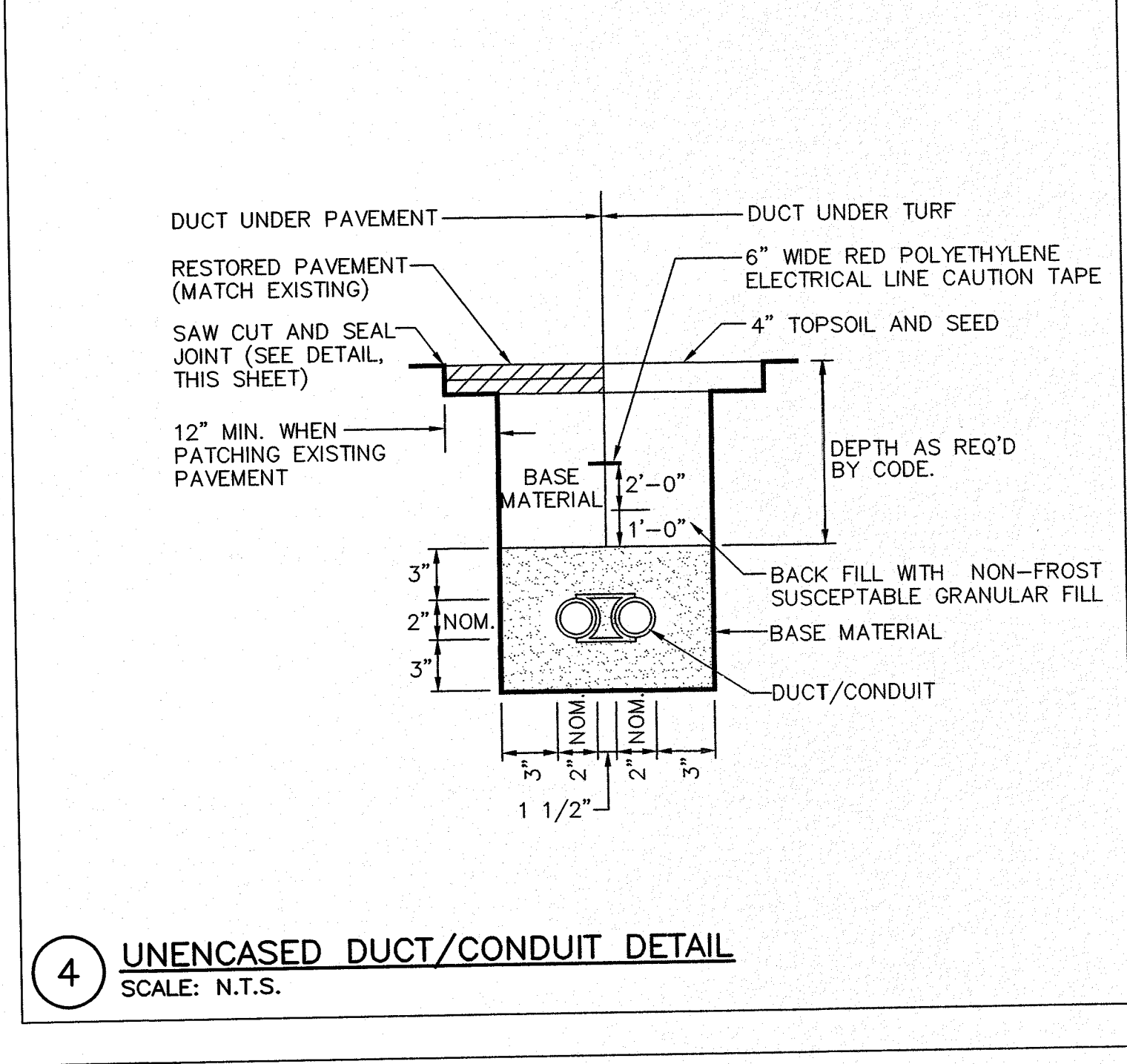
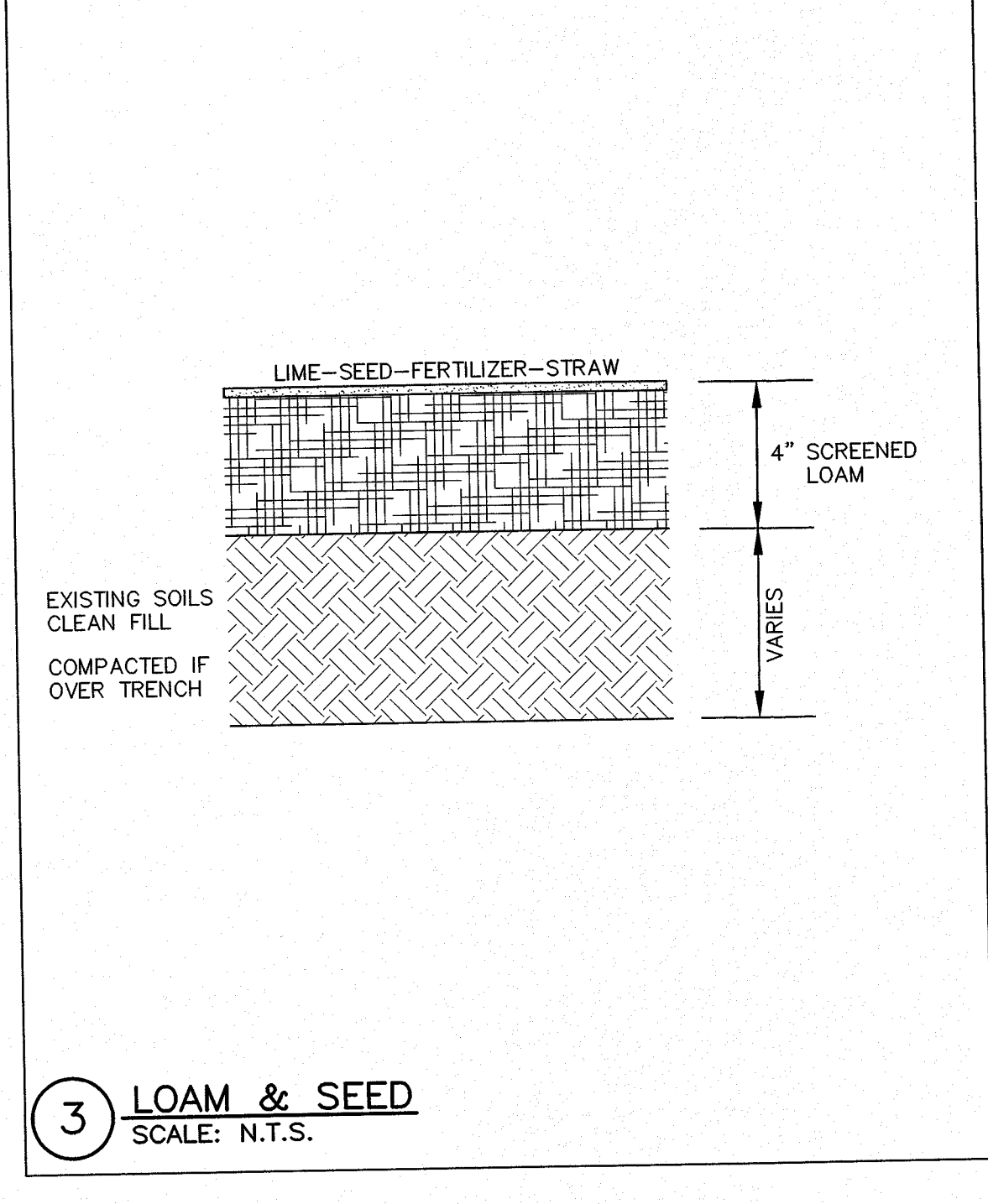
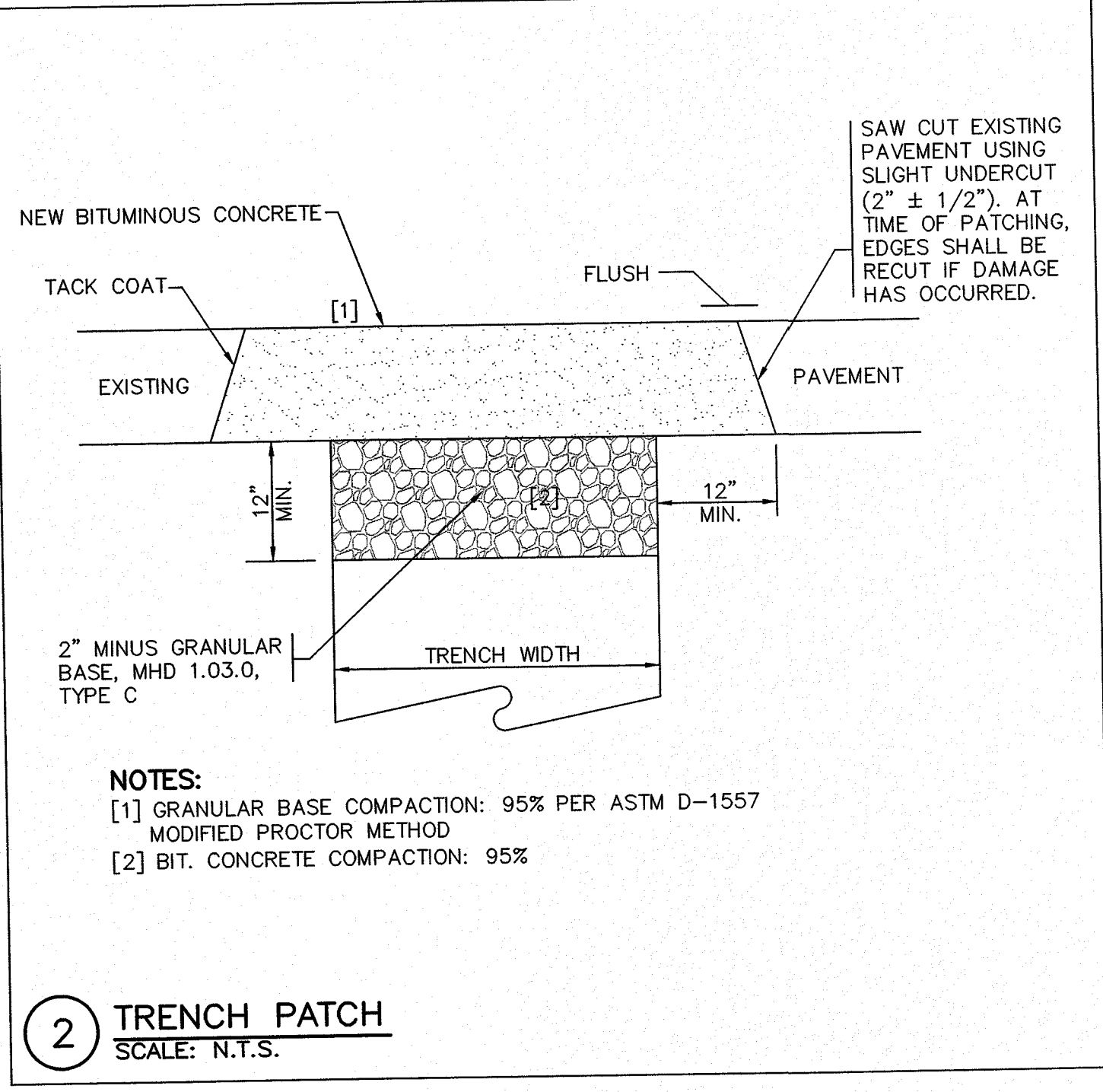
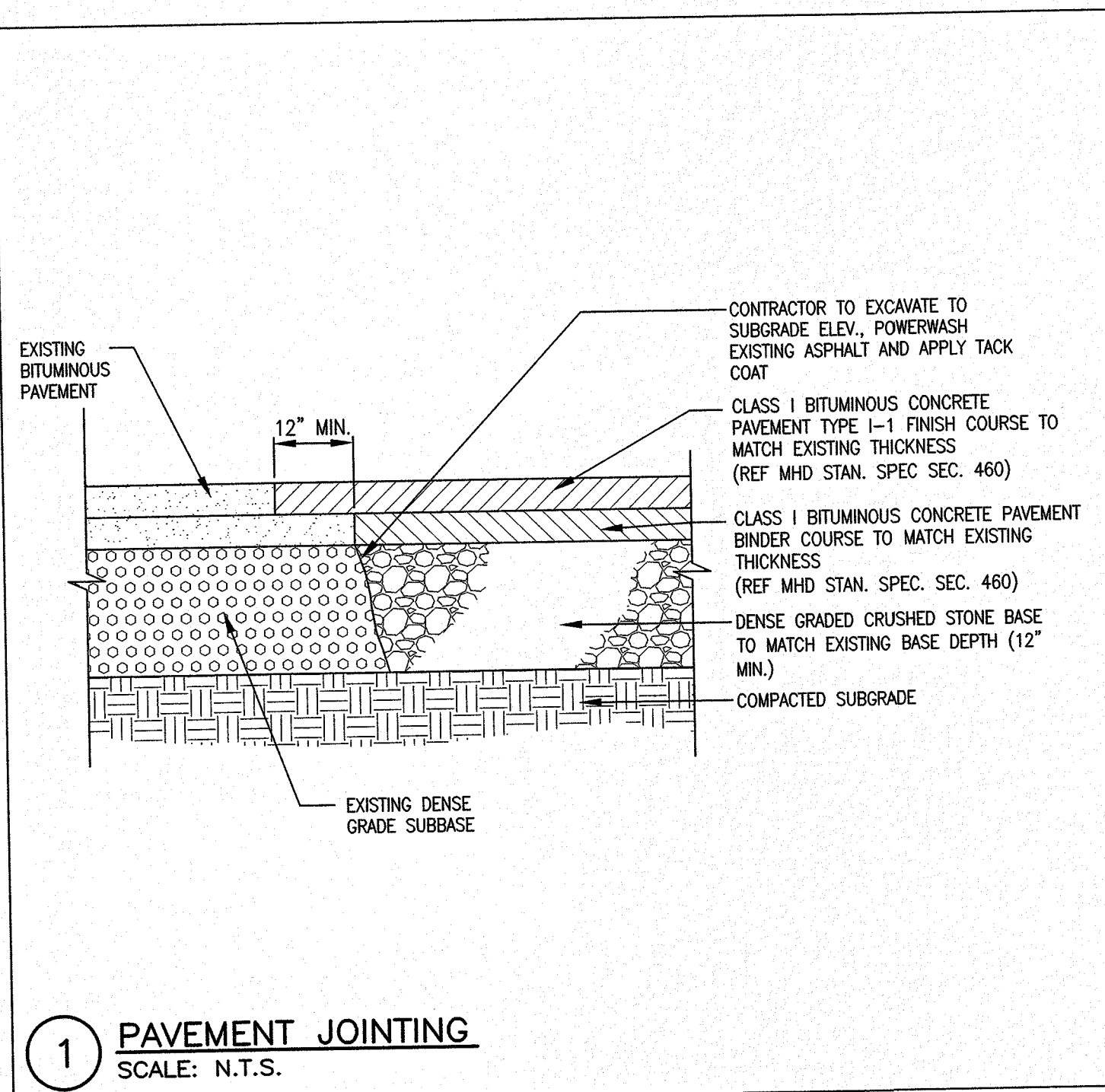
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C-7.2

PLAN NO. L-5506

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North Attleboro, Massachusetts 02760
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BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:12 am, Jan 04, 2019

BEING A MAJORITY _____ DATE: _____

PROJECT:

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

APPLICANT:

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS		
NO.	DATE	DESCRIPTION
1	9/17/18	PER REVIEW COMMENTS.
2	10/02/18	PER REVIEW COMMENTS.

CAD FILE ...\\dwg\\2017-395_SP.dwg

DRAWN BY TRB, RJF

CHECKED BY RMM, BJA

DATE MAY 15, 2018

PROJECT NO. 2017-395

SHEET TITLE

CONSTRUCTION
DETAILS

SHEET 1 OF 6

SEAL OF THE CITY OF BELLINGHAM

RICHARD M. MAINVILLE
CIVIL
No. 28323

REGISTERED PROFESSIONAL ENGINEER

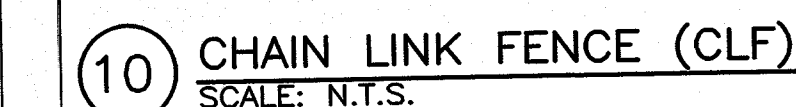
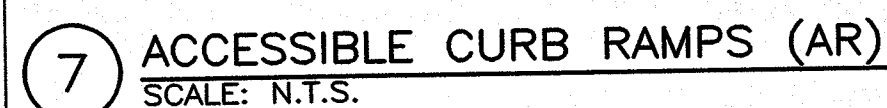
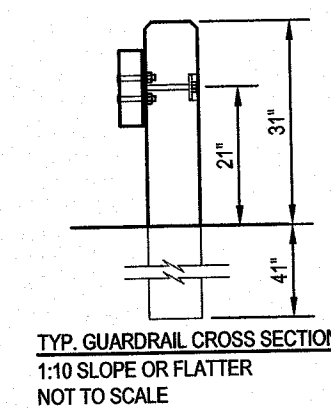
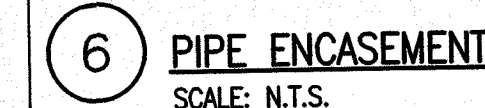
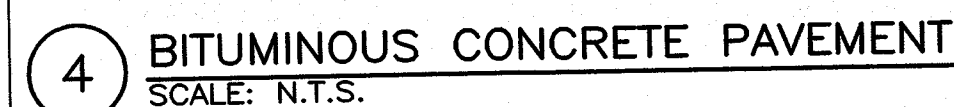
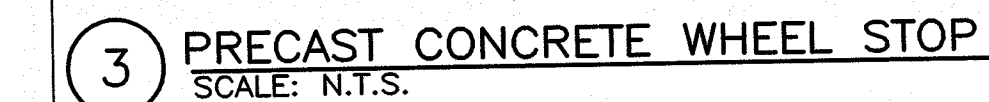
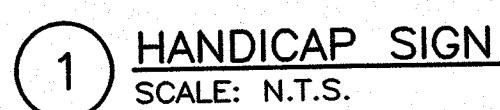
2018 © COPYRIGHT ANDREWS SURVEY & ENGINEERING, INC.

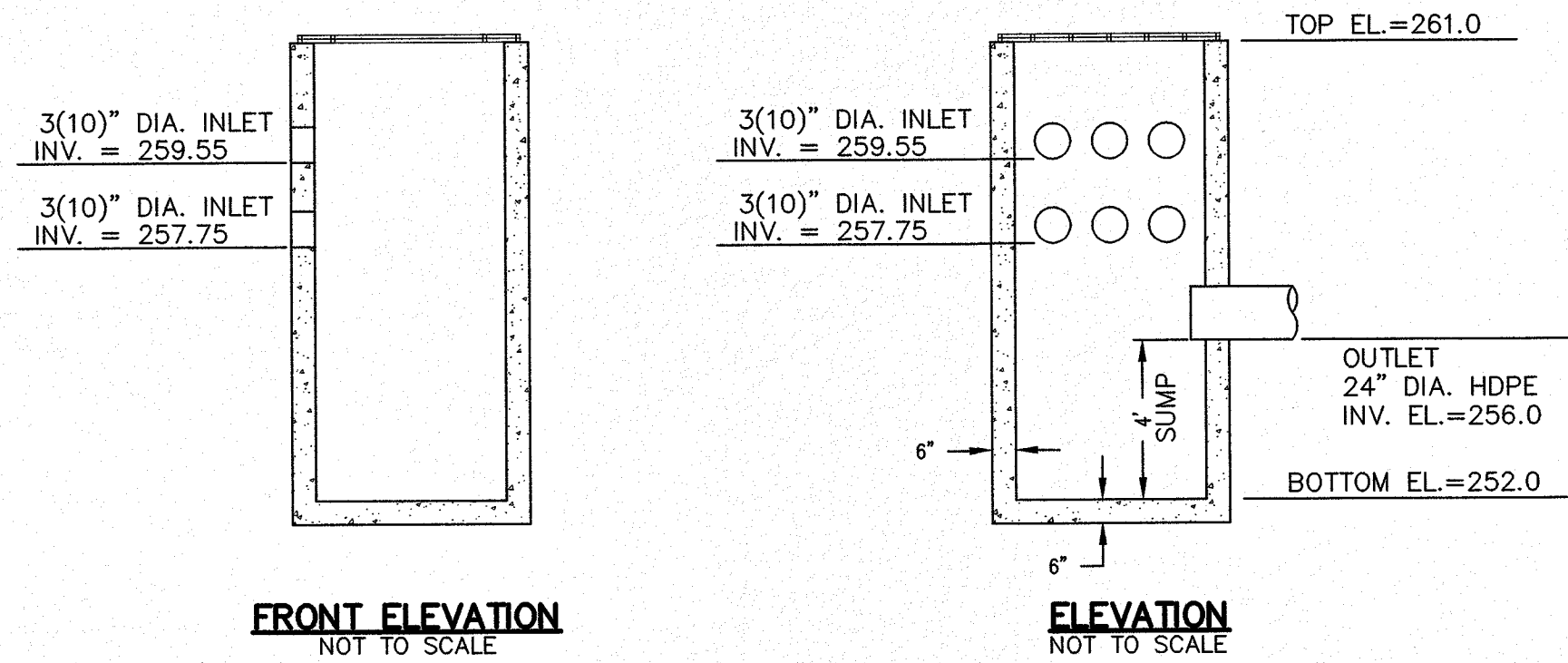
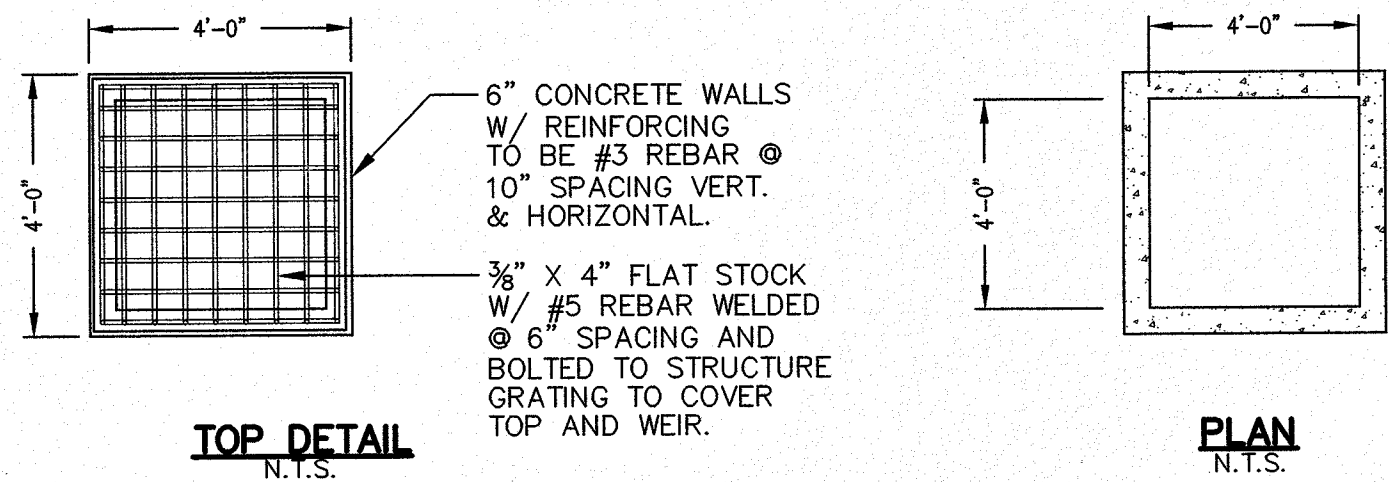
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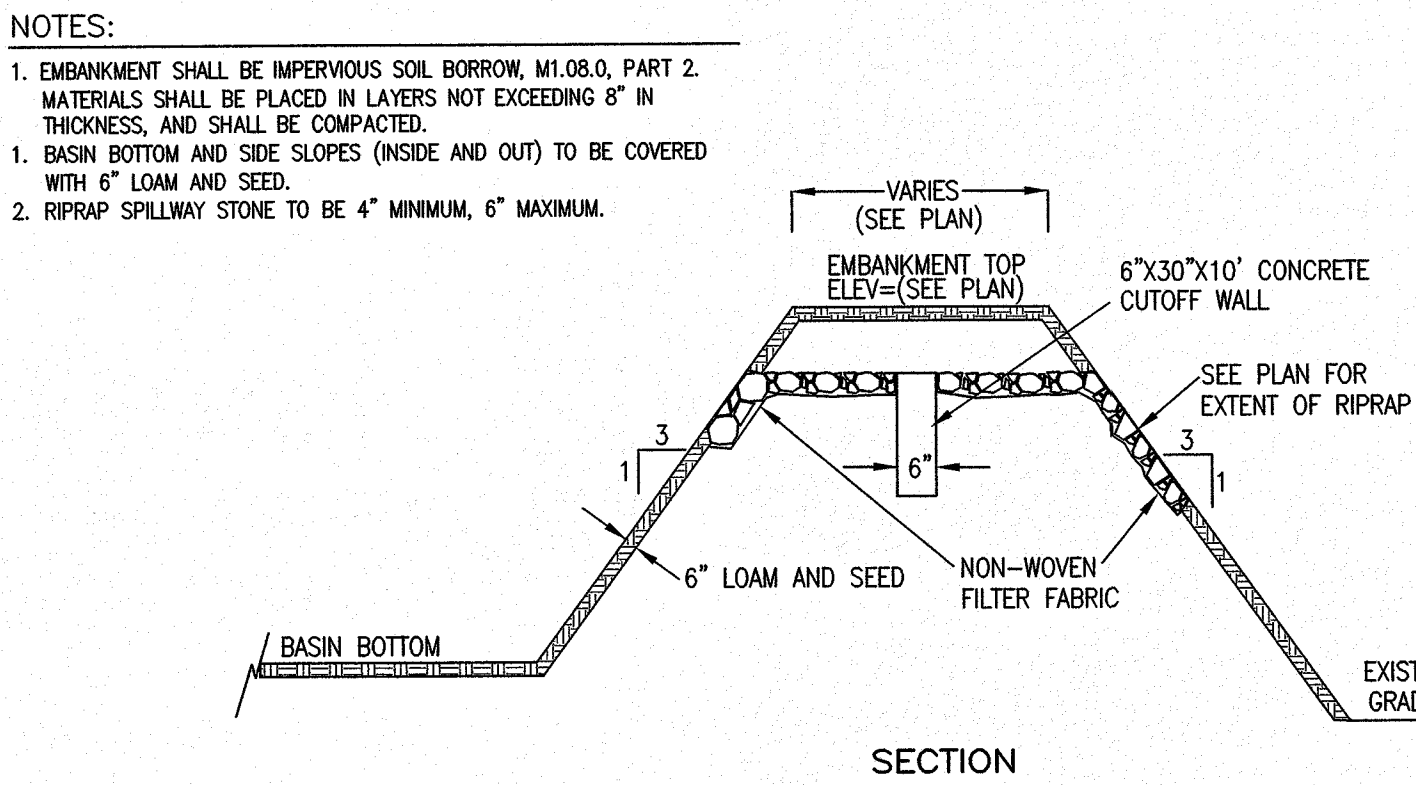
C-8.1

PLAN NO. L-5506

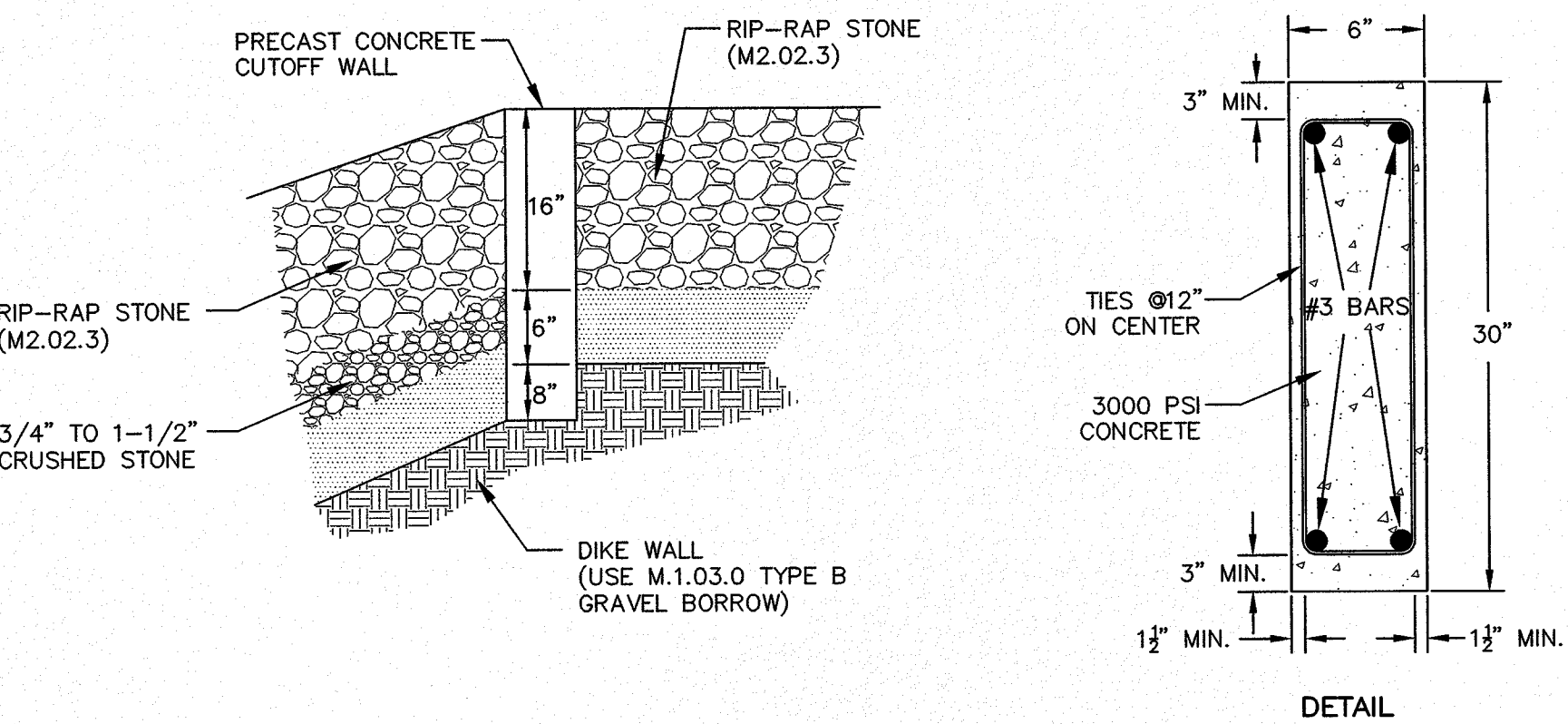




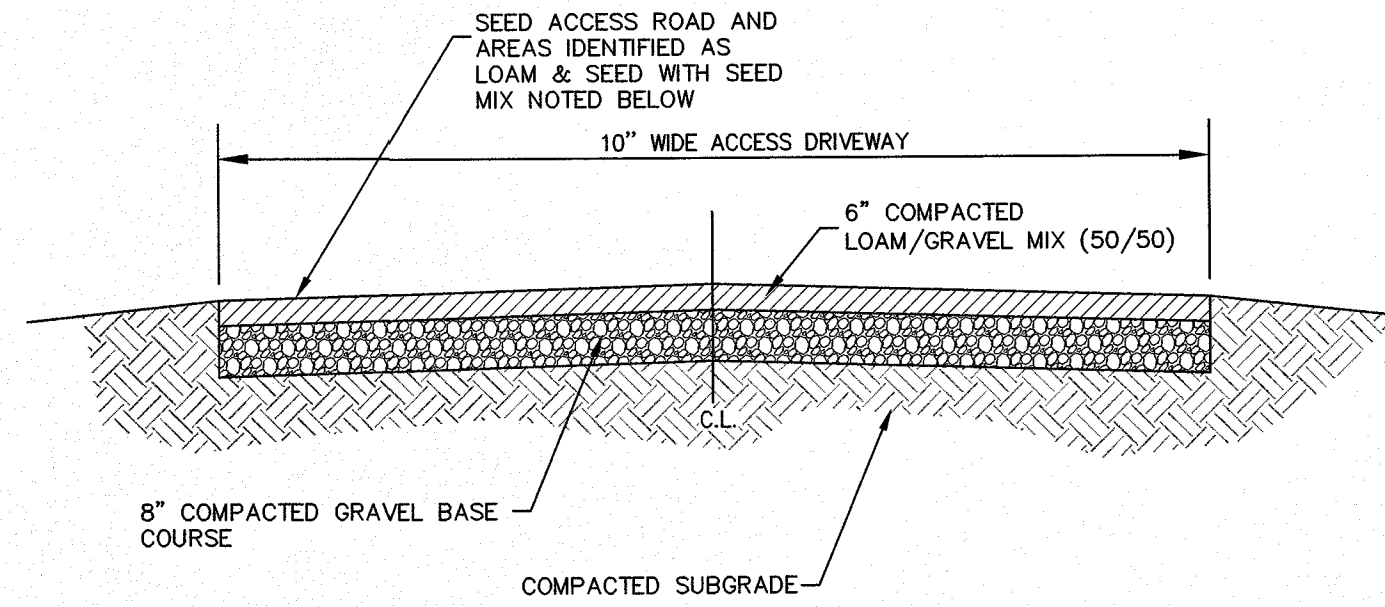
1 **OUTLET STRUCTURE (OS) - ORIFICE/GRATE DETAIL**
SCALE: N.T.S.



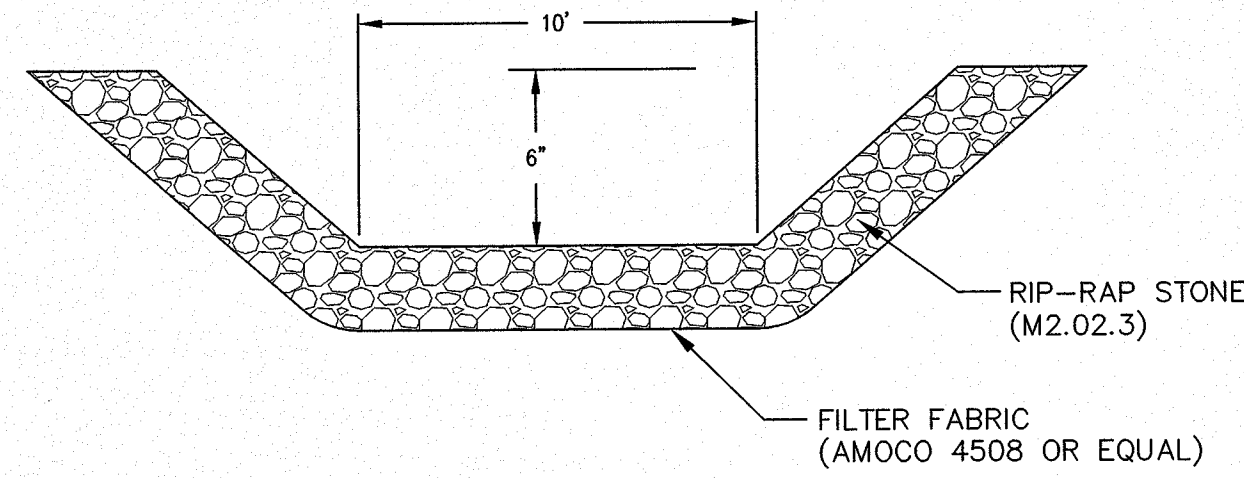
5 **TYPICAL EMBANKMENT/SPILLWAY**
SCALE: N.T.S.



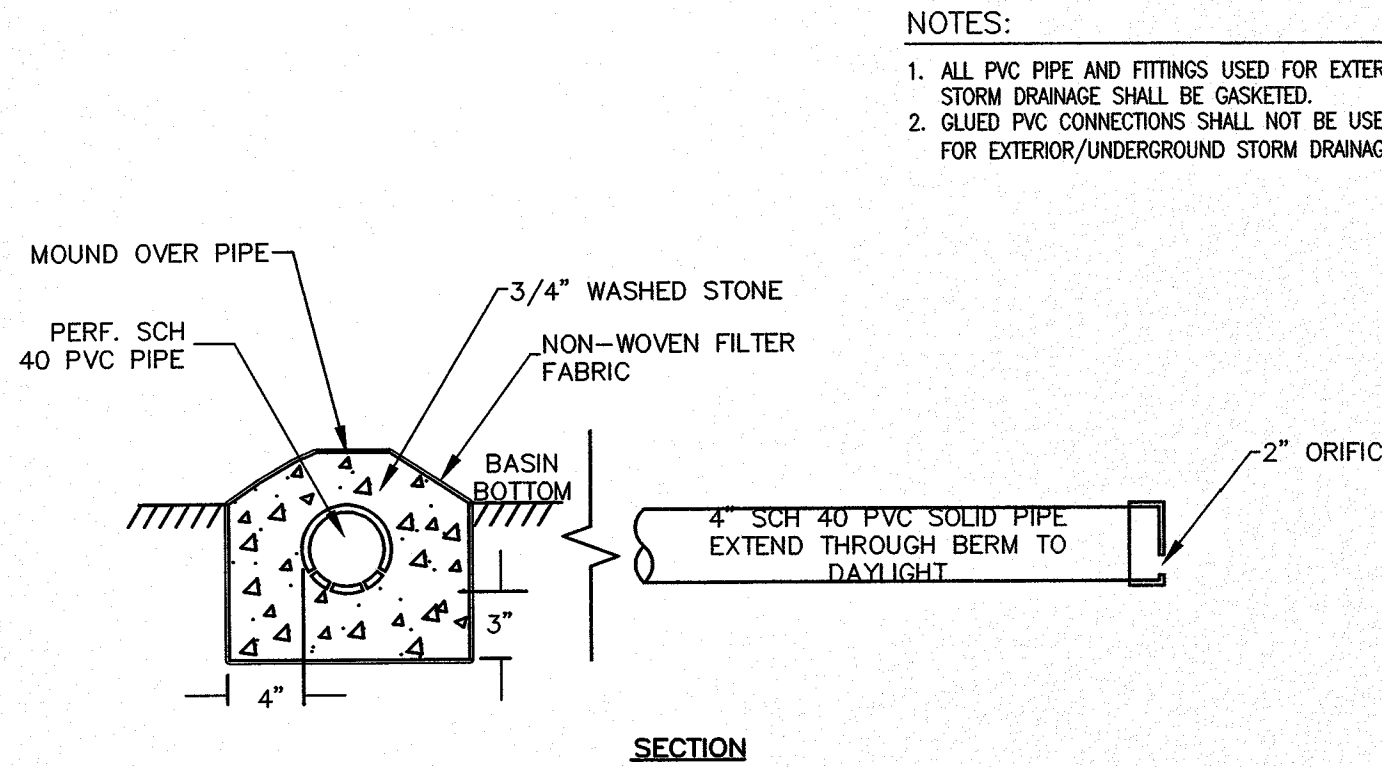
6 **CUTOFF WALL CONFIGURATION DETAIL**
SCALE: N.T.S.



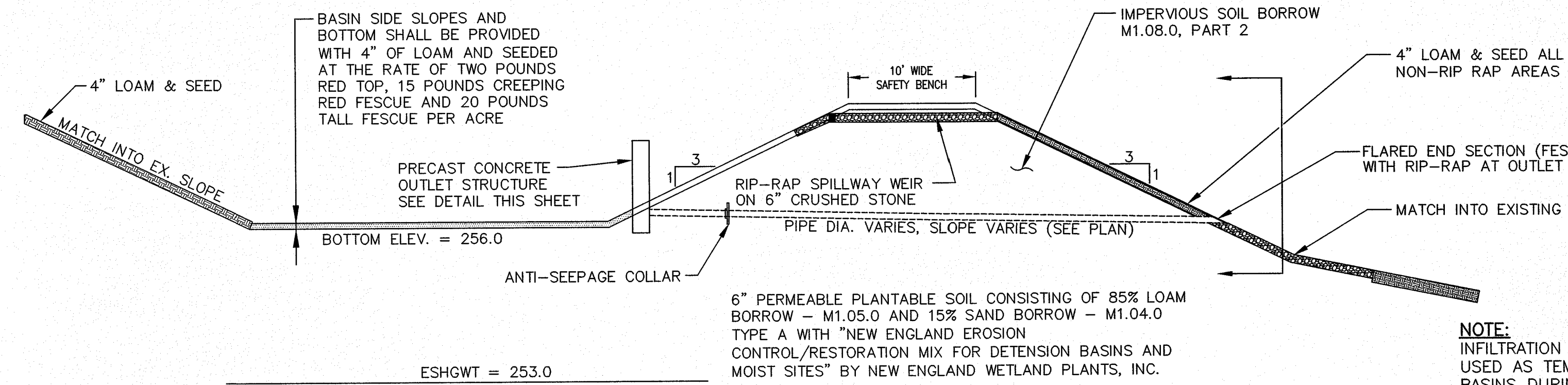
2 **GRAVEL ACCESS DRIVE**
SCALE: N.T.S.



3 **STONE RIP-RAP EMERGENCY SPILLWAY**
SCALE: N.T.S.



4 **LOW-FLOW DRAIN**
SCALE: N.T.S.



7 **INFILTRATION BASIN 1 CROSS SECTION**
SCALE: N.T.S.



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BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:12 am, Jan 04, 2019

BEING A MAJORITY

DATE:

PROJECT: **PROPOSED HINDU TEMPLE**
866 SOUTH MAIN STREET
BELLINGHAM, MA

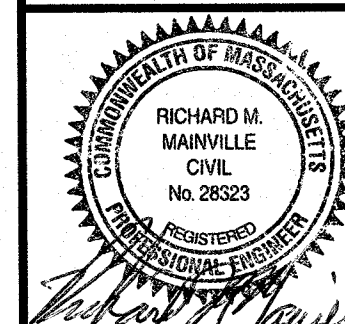
APPLICANT: **SRI SHIVA TEMPLE, INC.**
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS		
NO.	DATE	DESCRIPTION
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2	10/02/18	PER REVIEW COMMENTS.
CAD FILE	... \dwg\2017-395_SP.dwg	
DRAWN BY	TRB, RJF	
CHECKED BY	RMM, BJA	
DATE	MAY 15, 2018	
PROJECT NO.	2017-395	

SHEET TITLE

CONSTRUCTION DETAILS

SHEET 3 OF 6

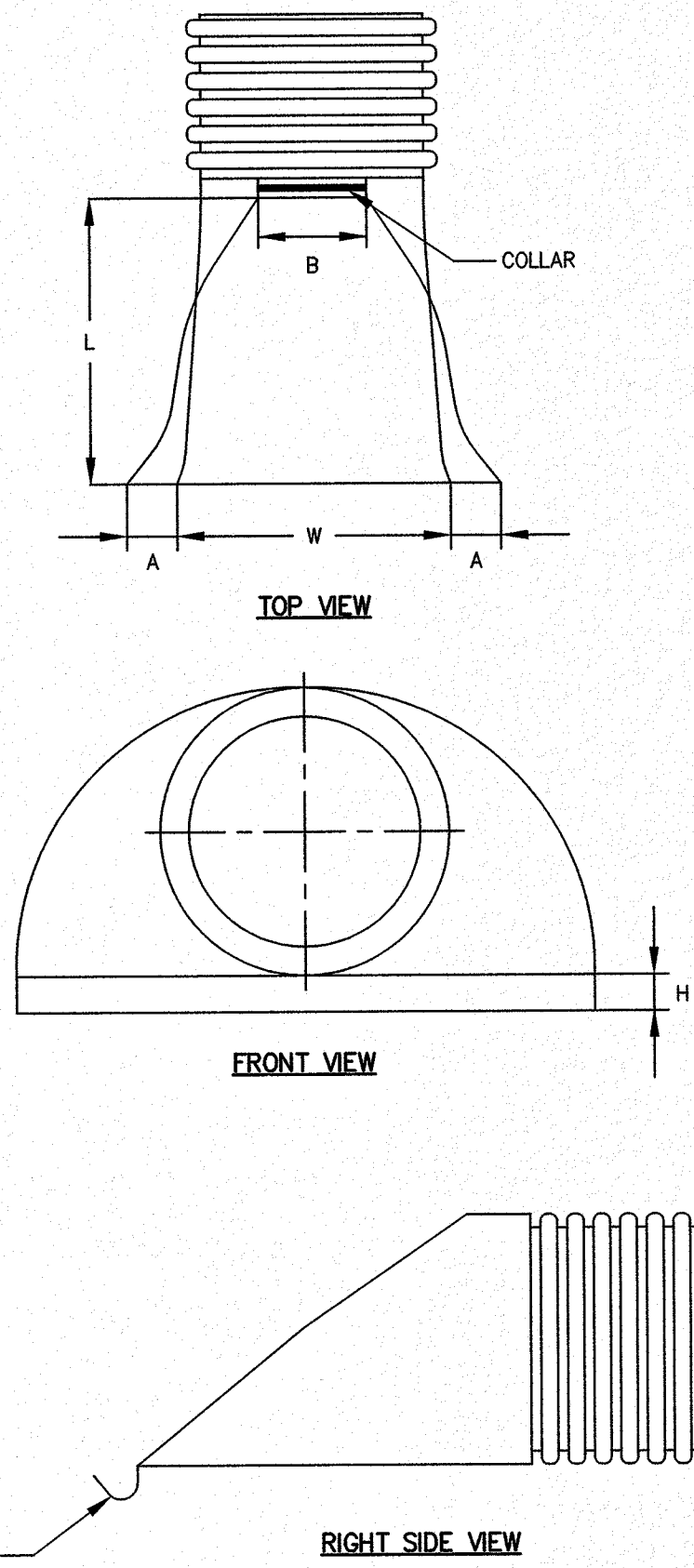


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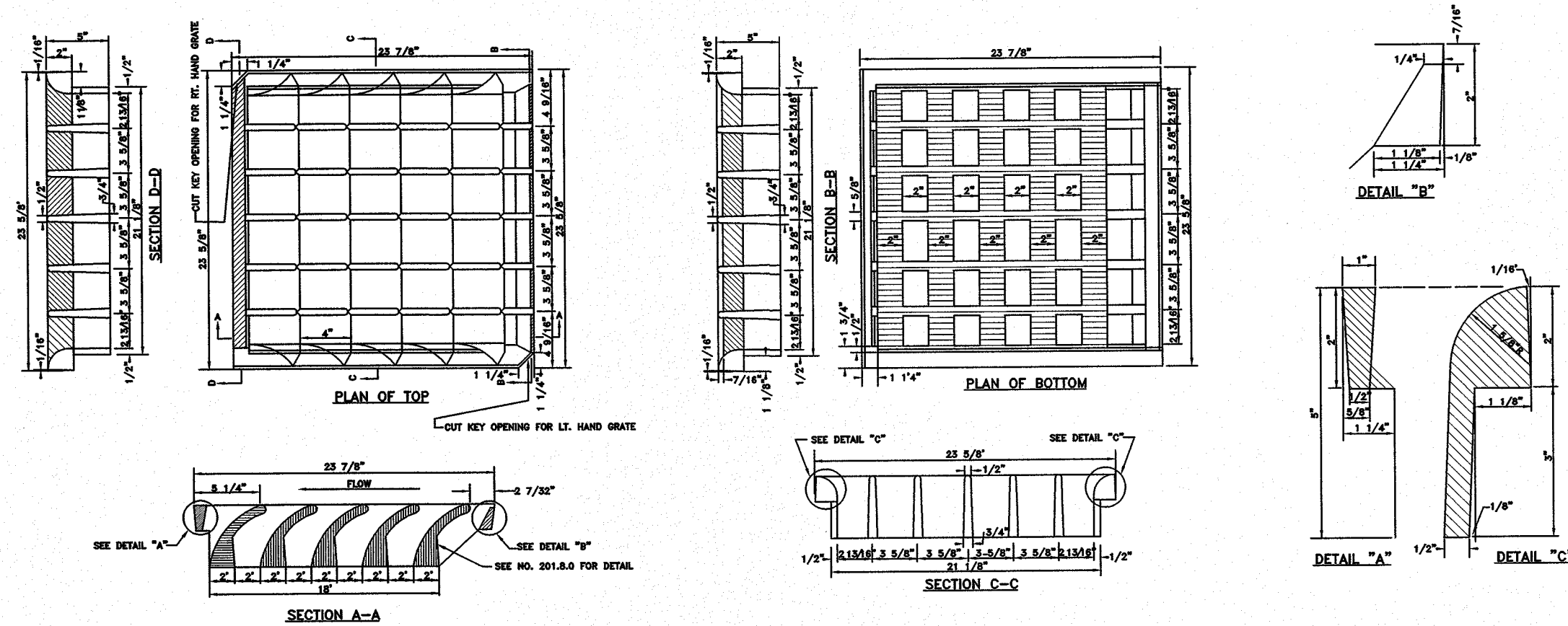
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PLAN NO. L-5506

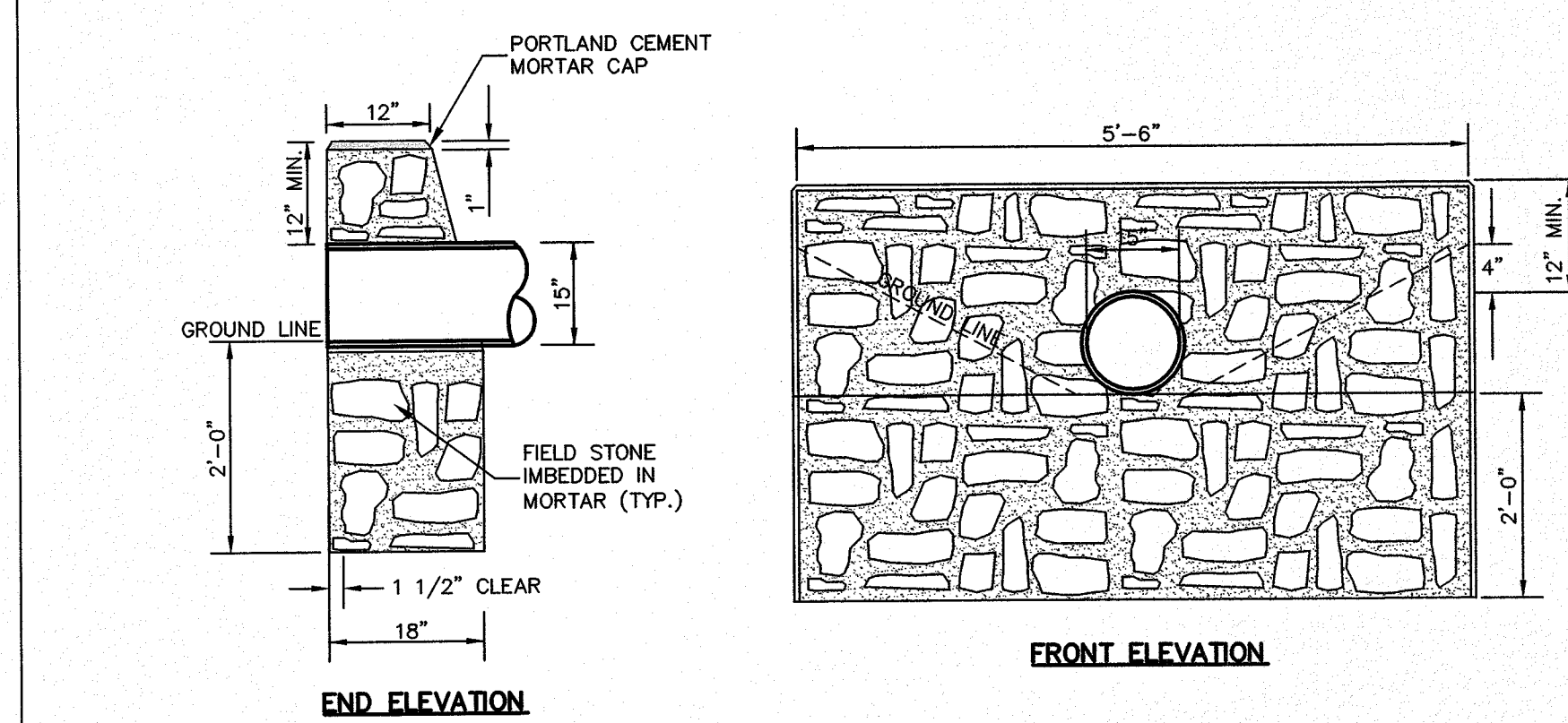
PIPE DIAMETER (INCHES)						
DIAMETER (INCHES)	12	15	18	24	30	36
A (INCHES)	6.5	6.5	7.5	7.5	7.5	7.5
B (MAX) (INCHES)	10.0	10.0	15.0	18.0	22.0	25.0
H (INCHES)	6.5	6.5	6.5	6.5	8.6	8.6
L (INCHES)	25.0	25.0	32.0	36.0	58.0	58.0
W (INCHES)	29.0	29.0	35.0	45.0	63.0	63.0



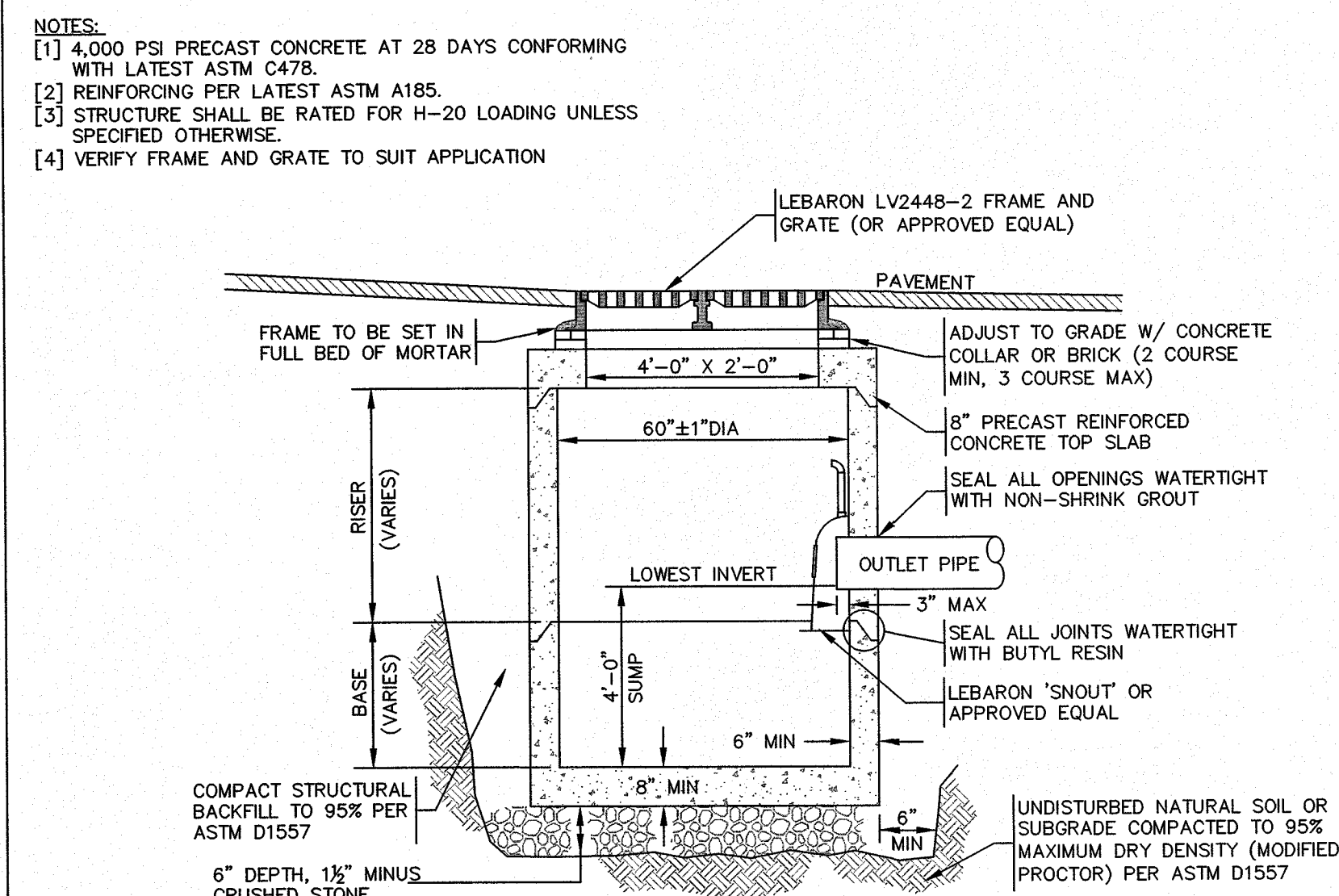
1 CORRUGATED POLYETHYLENE
FLARED-END SECTION (FES)
SCALE: N.T.S.



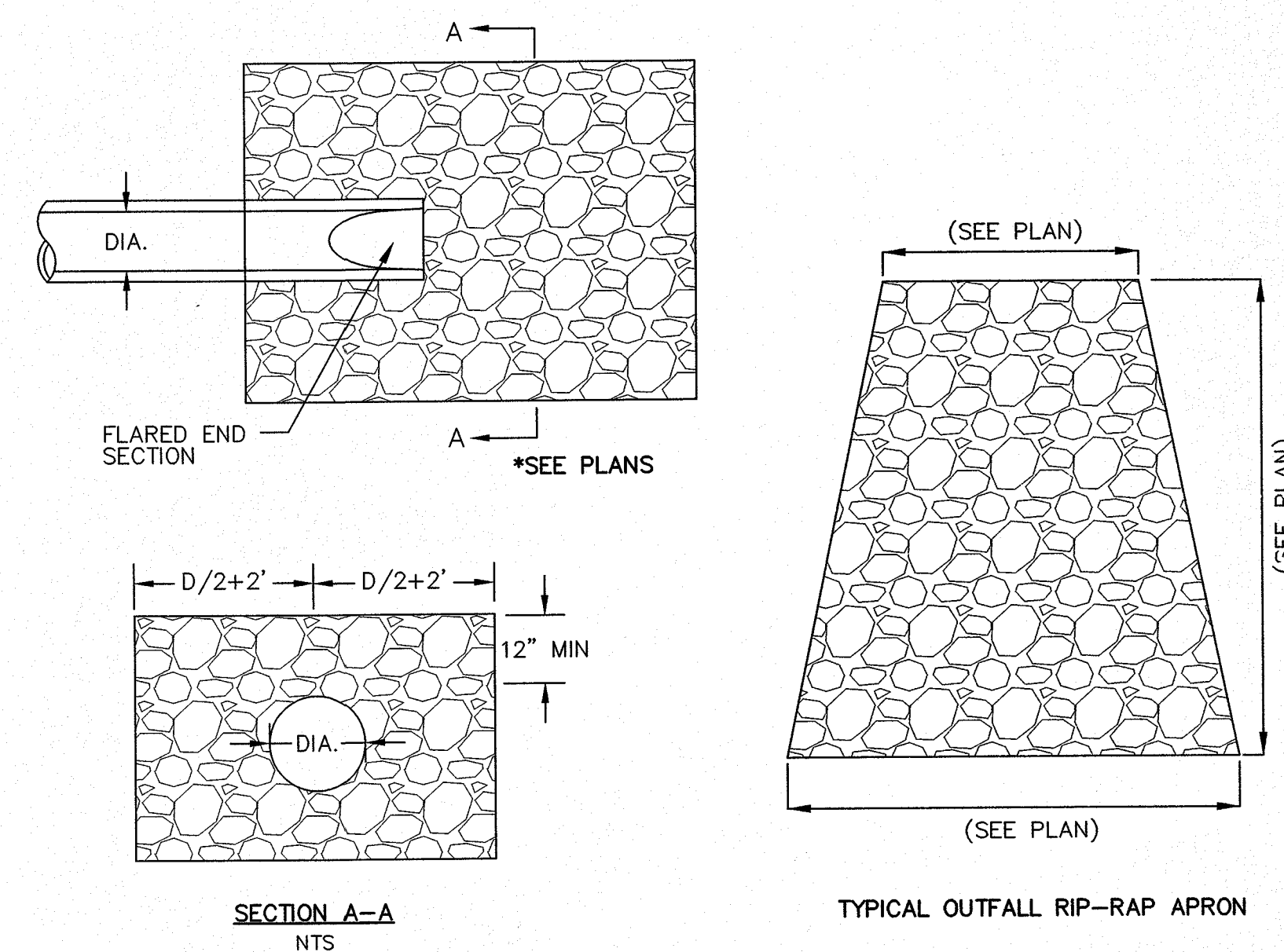
2 CASCADE CATCH BASIN GRATE
SCALE: N.T.S.



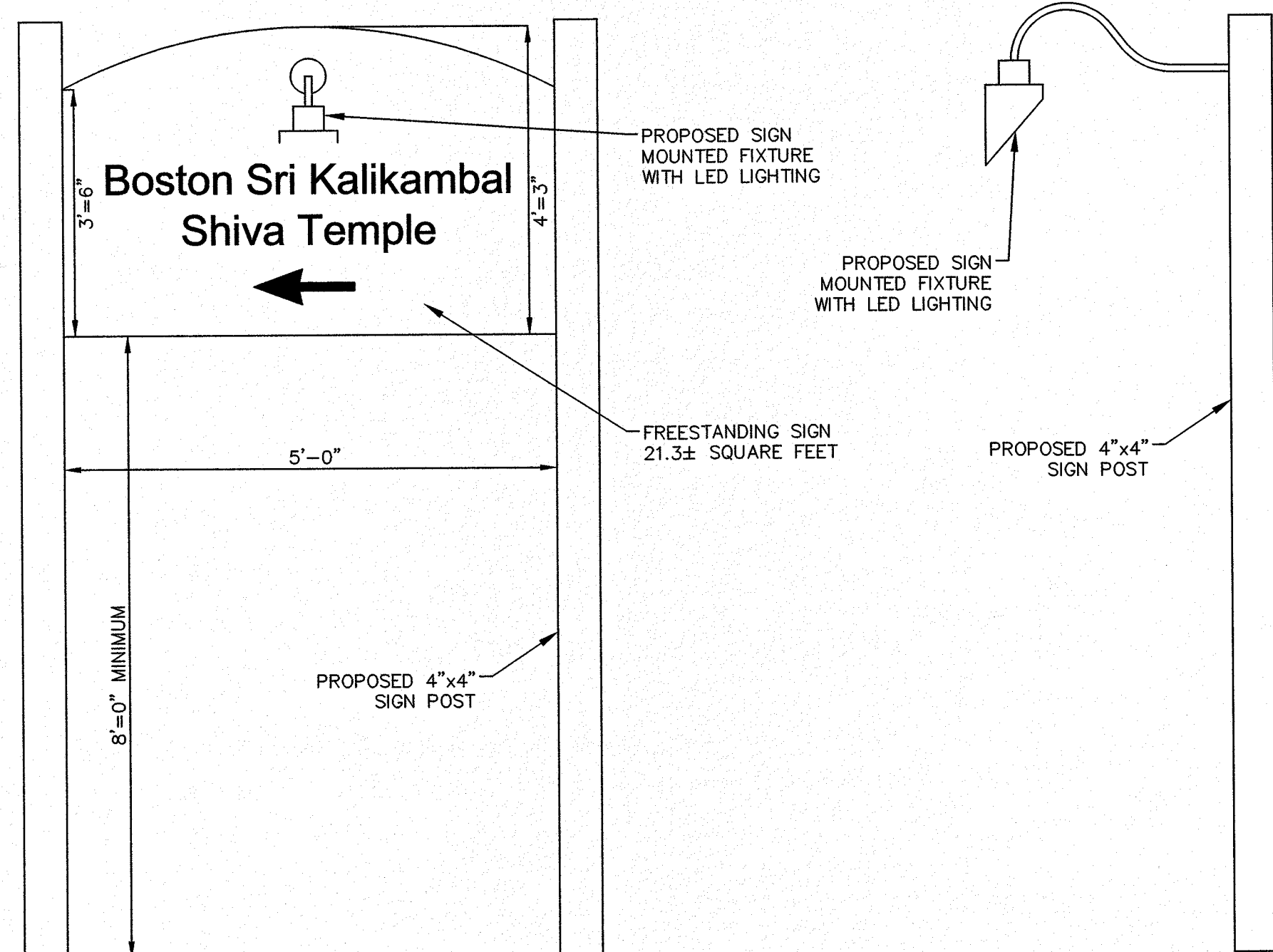
3 FIELDSTONE HEADWALL
SCALE: N.T.S.



4 DOUBLE GRATE CATCH BASIN
SCALE: N.T.S.

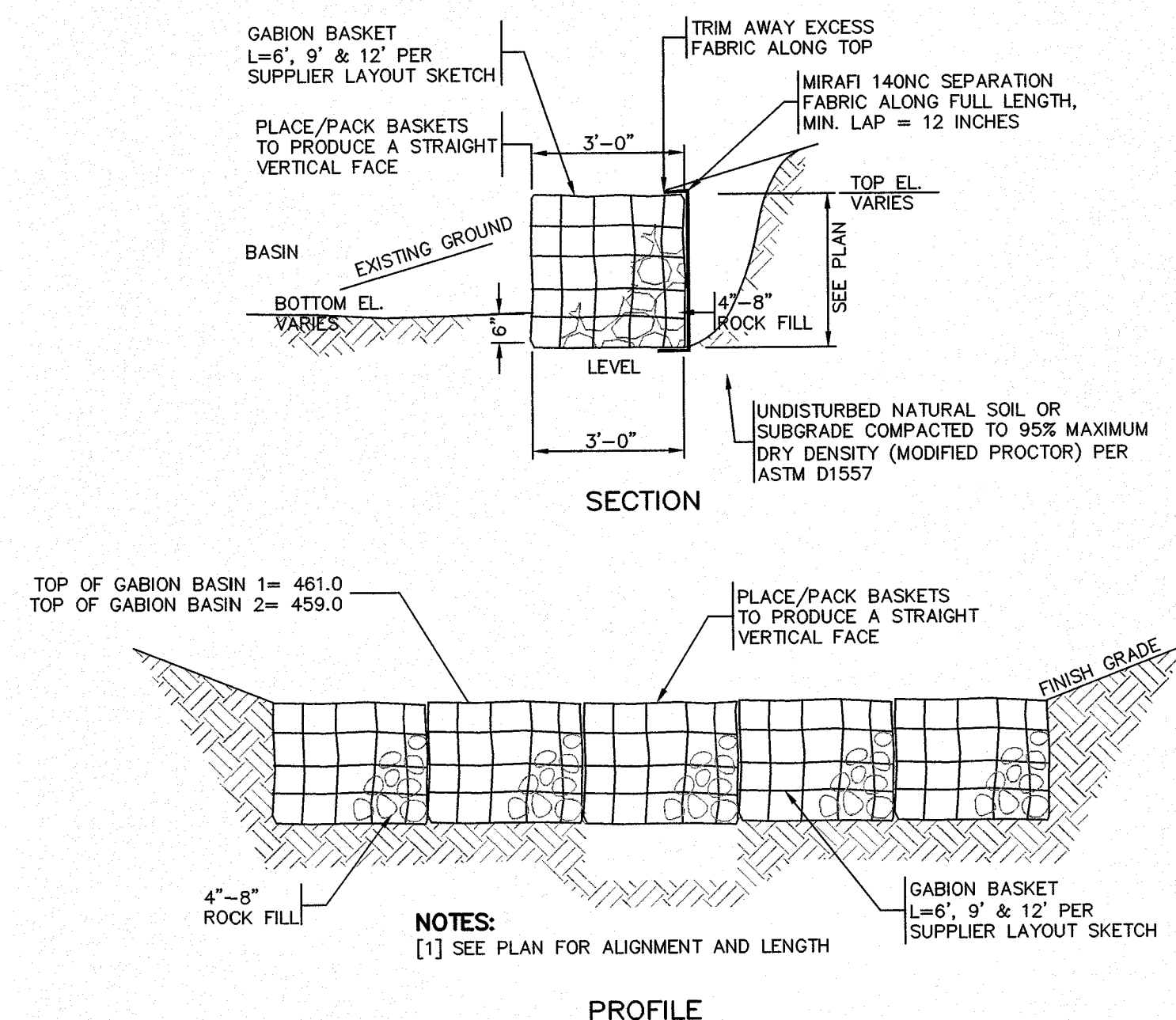


5 STONE RIP-RAP FOR PIPE ENDS
SCALE: N.T.S.

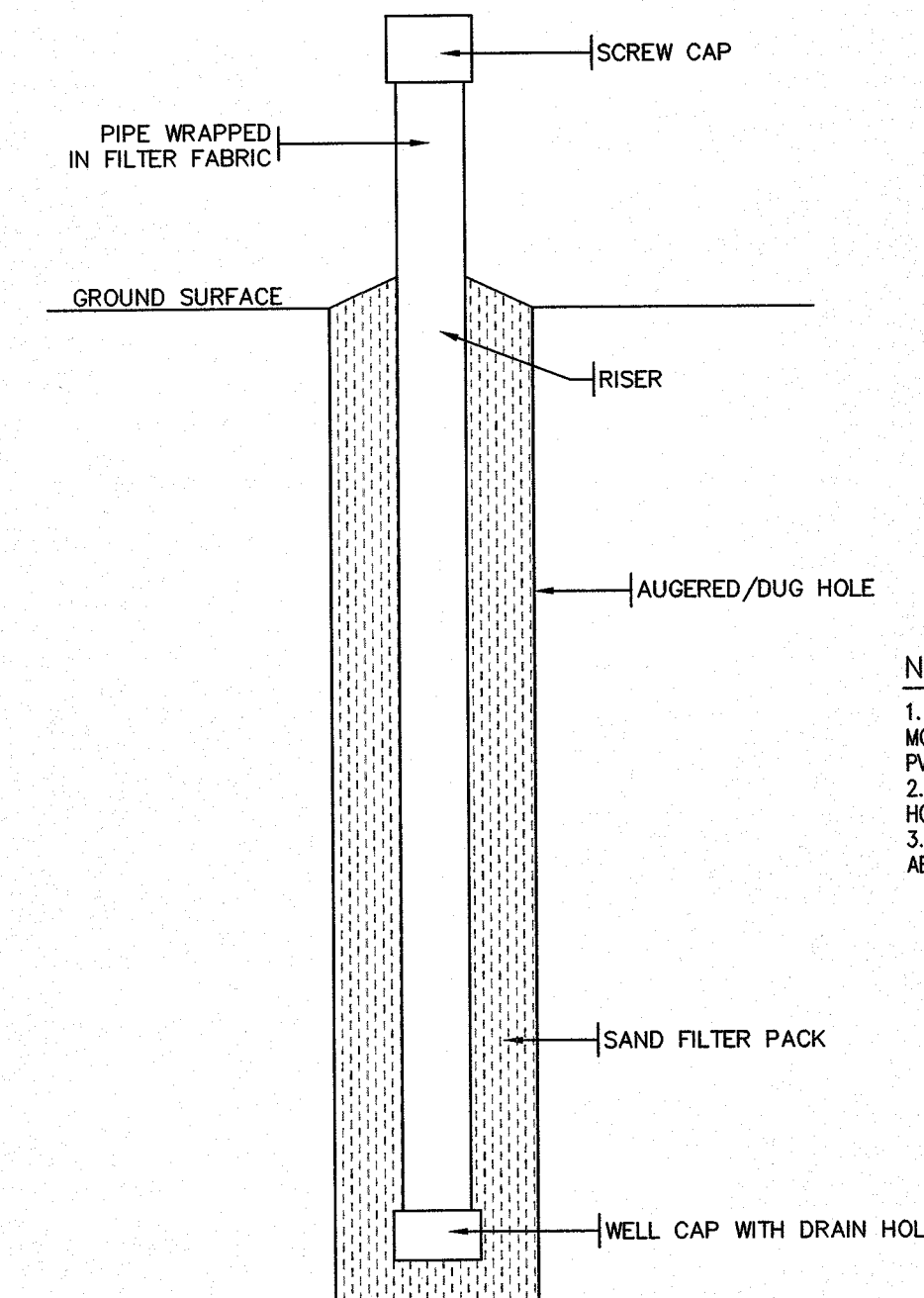


6 ENTRANCE SIGN DETAIL
SCALE: N.T.S.

NOTES:
FINAL SIGNAGE INCLUDING DIMENSIONS,
MATERIAL AND LIGHTING SHALL BE SUBMITTED
TO THE PLANNING DEPARTMENT FOR REVIEW.



7 GABION WALL DETAIL
SCALE: N.T.S.



8 MONITORING WELL DETAIL
SCALE: N.T.S.

NOTES:
1. EMBANKMENT TO BE CONSTRUCTED OF CLEAN FILL FREE OF
MONITORING WELL TO BE MINIMUM 2IN DIAMETER PERFORATED SCH-40
PVC PIPE.
2. PIPE SHALL BE WRAPPED IN FILTER FABRIC IF INSTALLED IN OPEN
HOLE.
3. END OF PIPE TO BE HAVE SCREW CAP AND BE RAISED 1 FOOT
ABOVE THE SURROUNDING GROUND.

ASE

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BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:13 am, Jan 04, 2019

BEING A MAJORITY DATE:

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

PROJECT:

APPLICANT:

REVISIONS

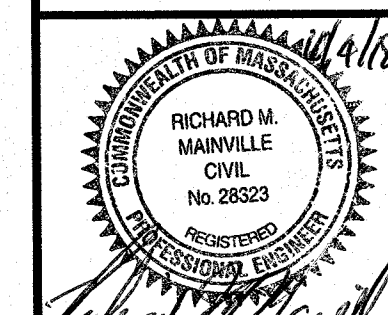
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2	10/02/18	PER REVIEW COMMENTS.

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DRAWN BY	TRB, RJF
CHECKED BY	RMM, BJA
DATE	MAY 15, 2018
PROJECT NO.	2017-395

SHEET TITLE

CONSTRUCTION
DETAILS

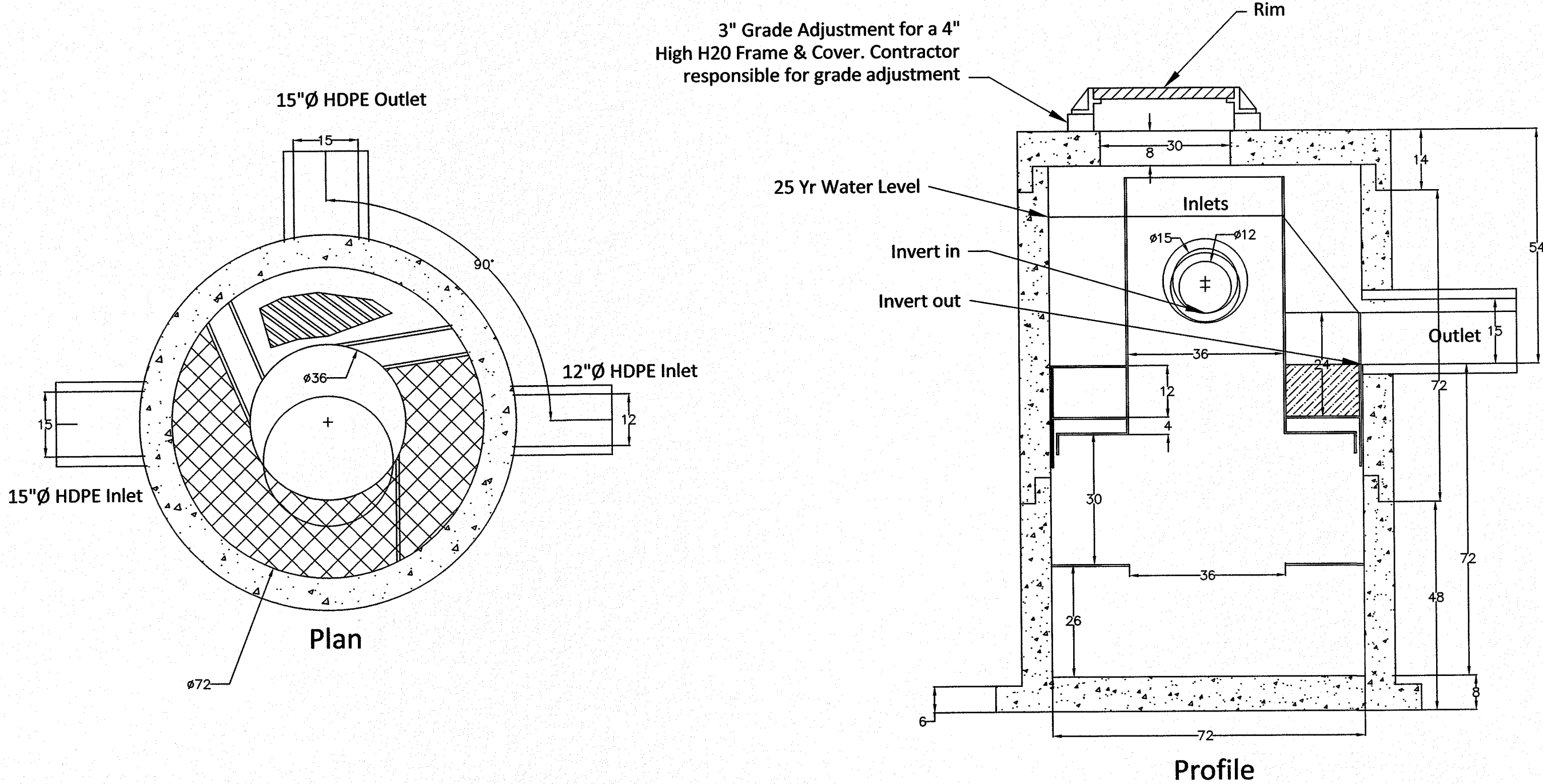
SHEET 4 OF 6



DRAWING NO.

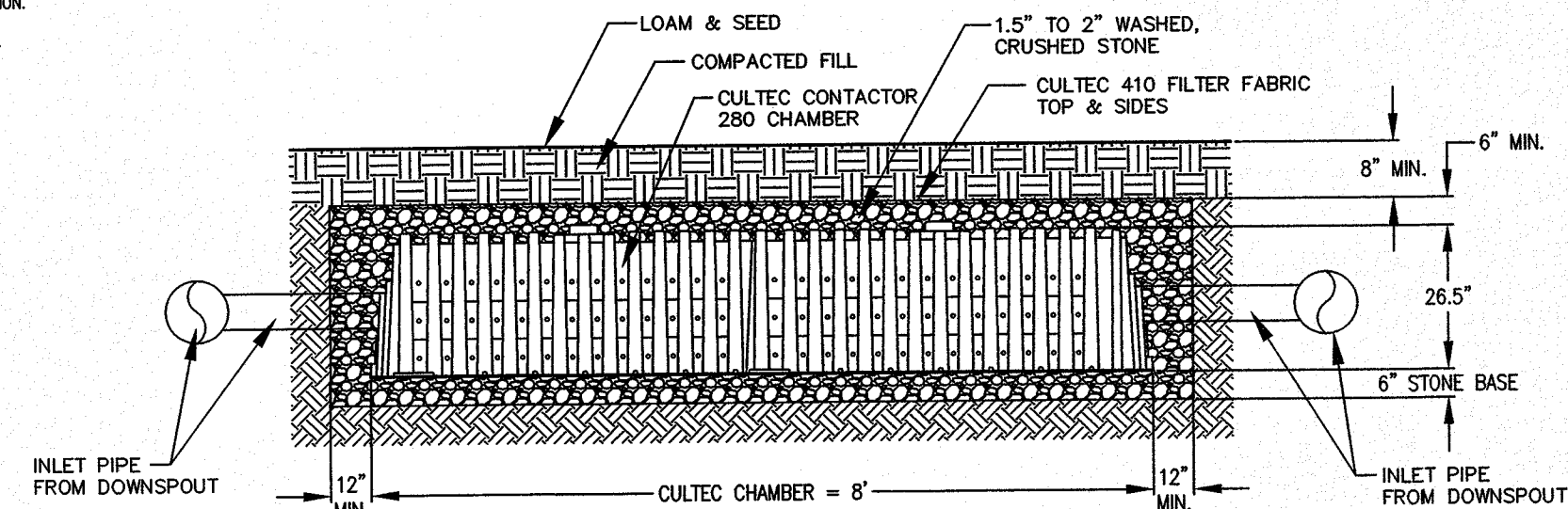
C-8.4

PLAN NO. L-5506

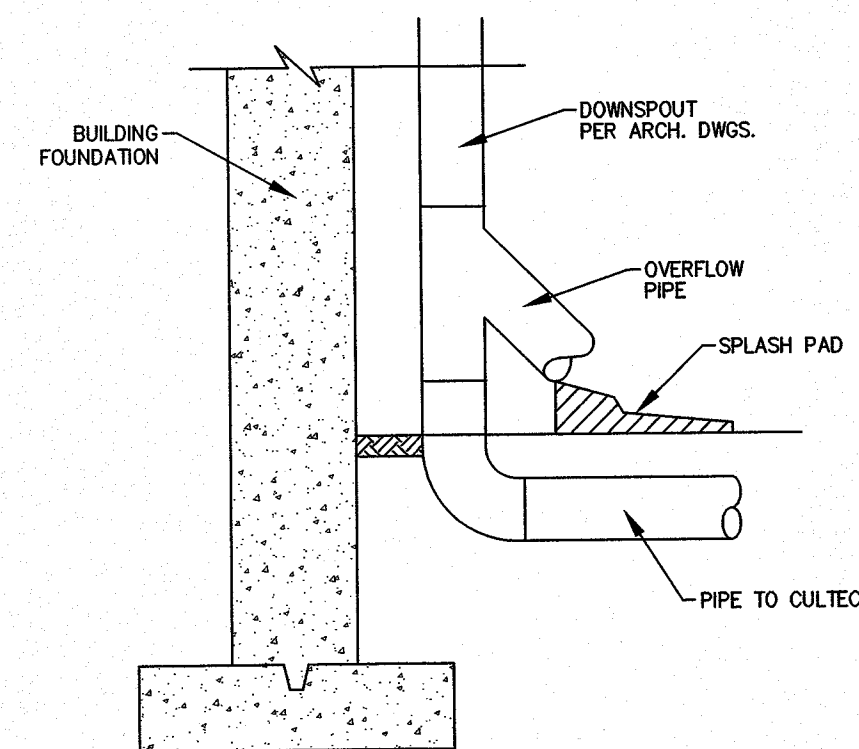


1 HYDROWORKS HS6 (72"φ)
SCALE: N.T.S.

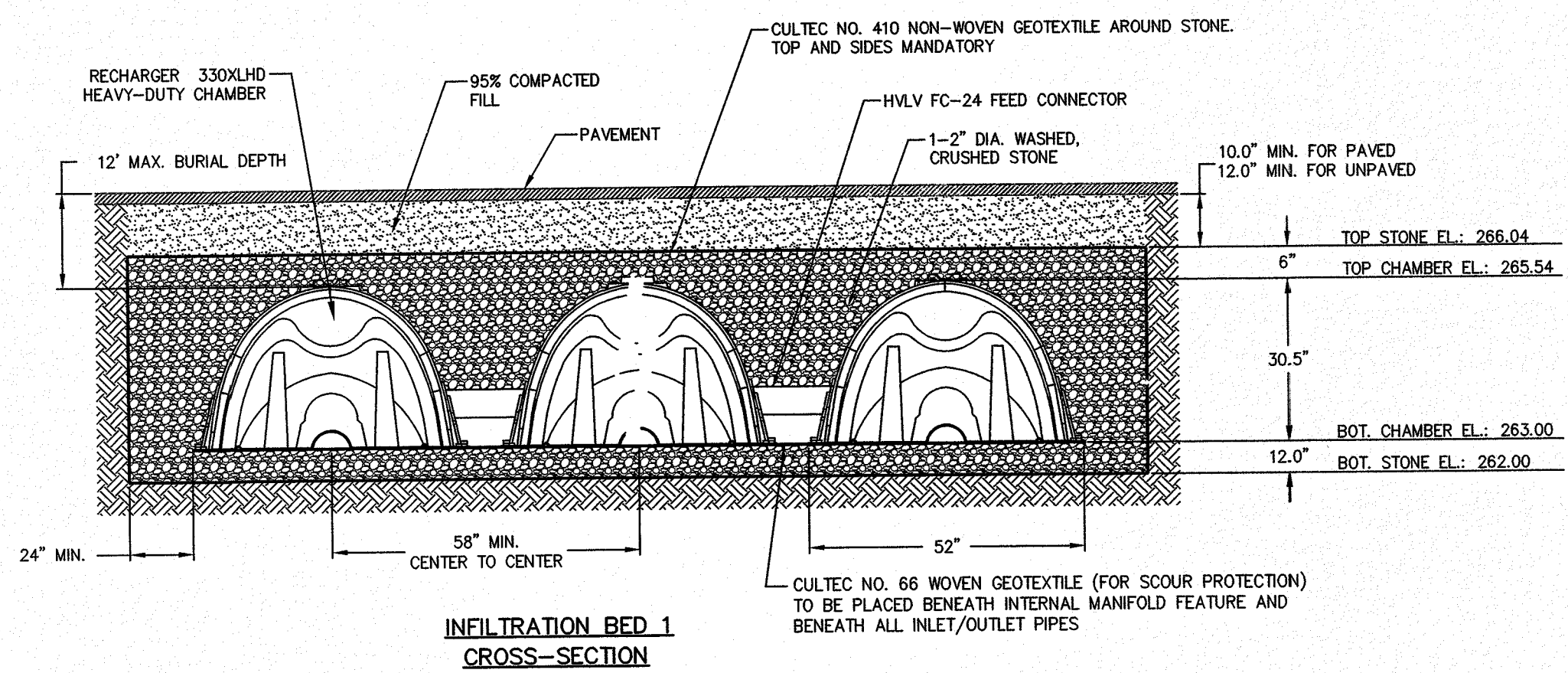
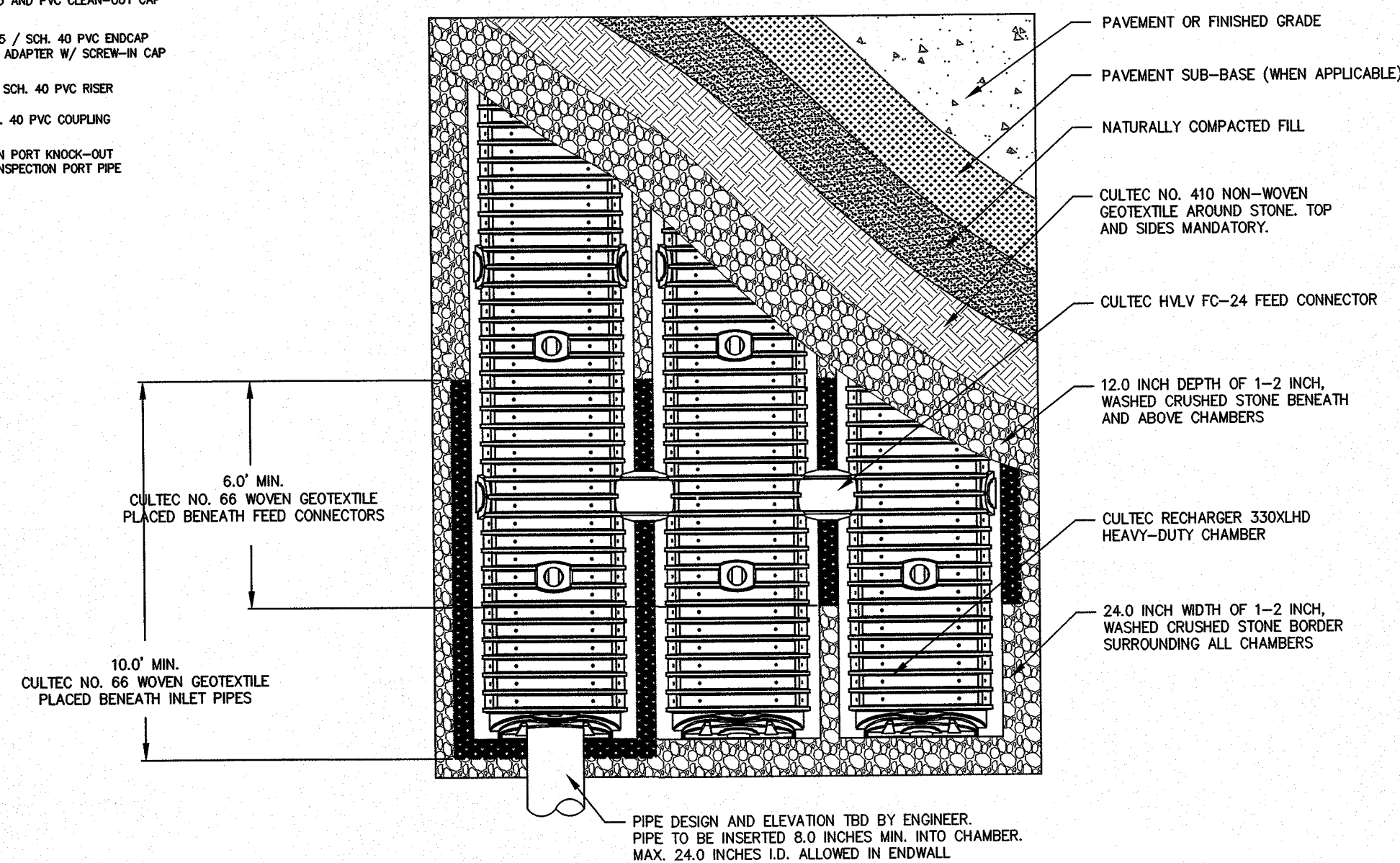
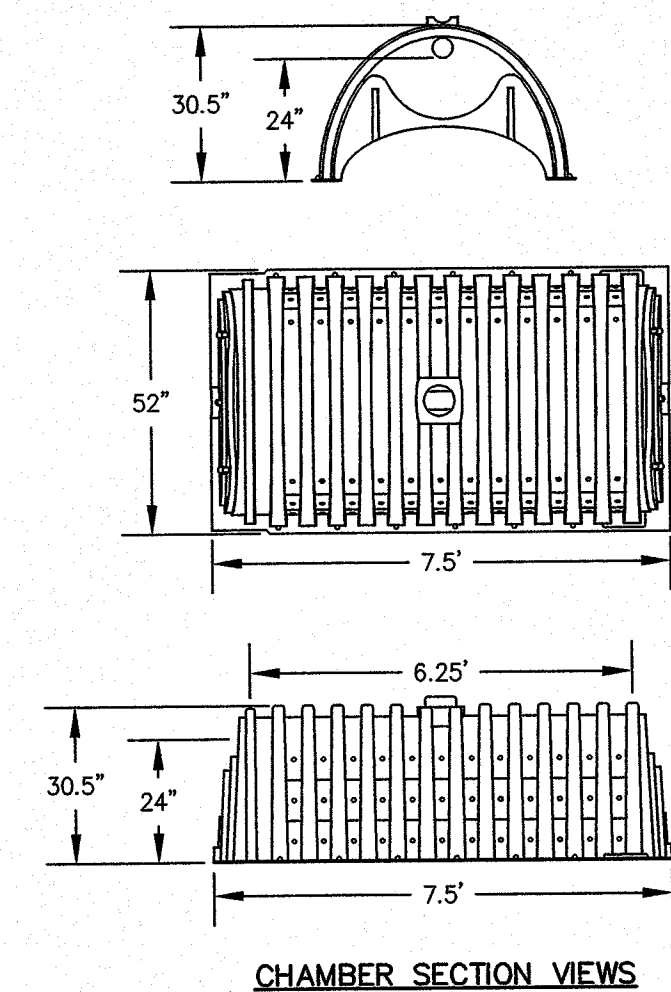
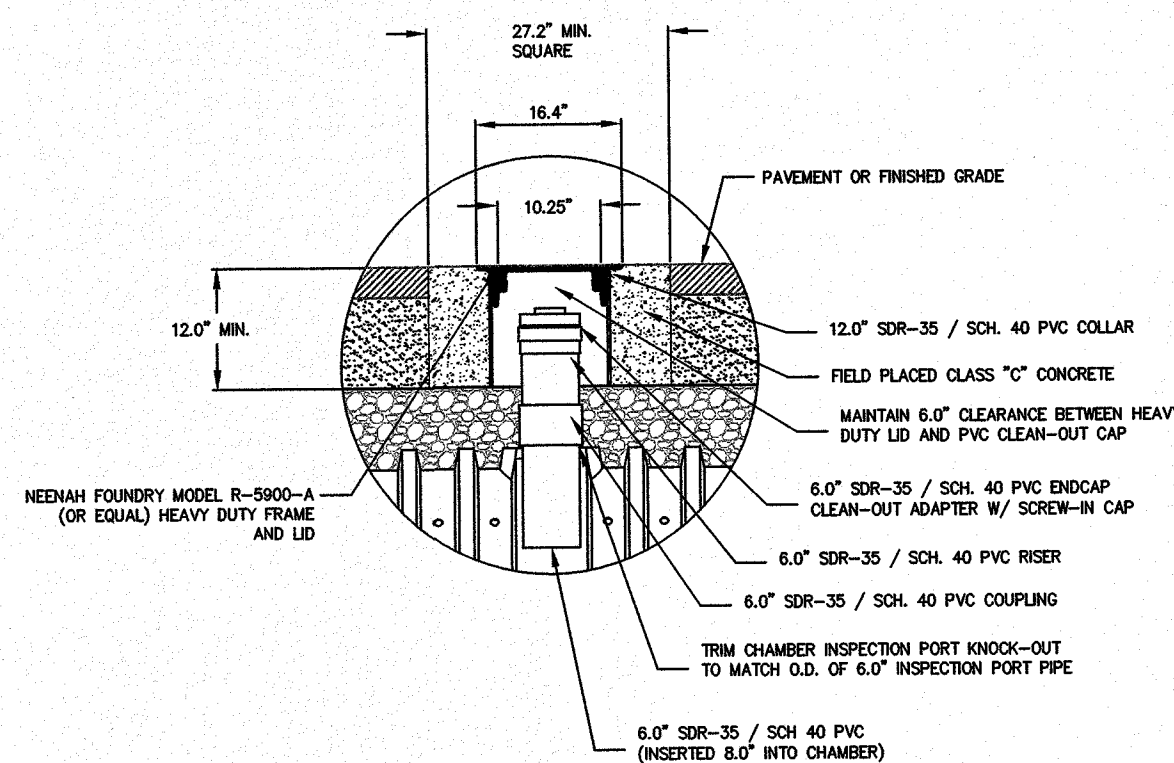
- NOTES:
1. USE RECHARGER R-280 AS MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. OR APPROVED EQUAL.
 2. ALL RECHARGER CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
 3. CHAMBER SIZING CALCULATIONS ARE BASED ON 40% STONE VOID.
 4. CULTEC SHALL BE LOCATED TO MAINTAIN 2' MINIMUM SEPARATION FROM THE BOTTOM OF STONE AND SEASONAL HIGH GROUND WATER ELEVATION. CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER TO DETERMINE GROUNDWATER ELEVATION AT EACH LOCATION PRIOR TO INSTALLATION.



2 ROOF STORMWATER RECHARGE SYSTEM
CULTEC RECHARGER R-280 CHAMBER
SCALE: N.T.S.



3 ROOF LEADER CONNECTION
SCALE: N.T.S.



- NOTES:
1. USE RECHARGER 330XLHD AS MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. OR APPROVED EQUAL.
 2. ALL RECHARGER CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
 3. CALCULATIONS ARE BASED ON 40% STONE VOID.
 4. CLEANOUT PORTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 5. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
 6. ALL RECHARGER 330XLHD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.

4 CULTEC RECHARGER R-330XLHD CHAMBER (INFILTRATION BED 1)
SCALE: N.T.S.

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BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:13 am, Jan 04, 2019

BEING A MAJORITY

DATE:

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866 SOUTH MAIN STREET
BELLINGHAM, MA

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

PROJECT:

APPLICANT:

REVISIONS

NO.	DATE	DESCRIPTION
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2	10/02/18	PER REVIEW COMMENTS.

CAD FILE: ... \dwg\2017-395_SP.dwg

DRAWN BY: TRB, RJF

CHECKED BY: RMM, BJA

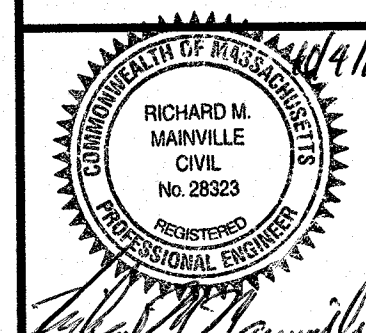
DATE: MAY 15, 2018

PROJECT NO.: 2017-395

SHEET TITLE

**CONSTRUCTION
DETAILS**

SHEET 5 OF 6



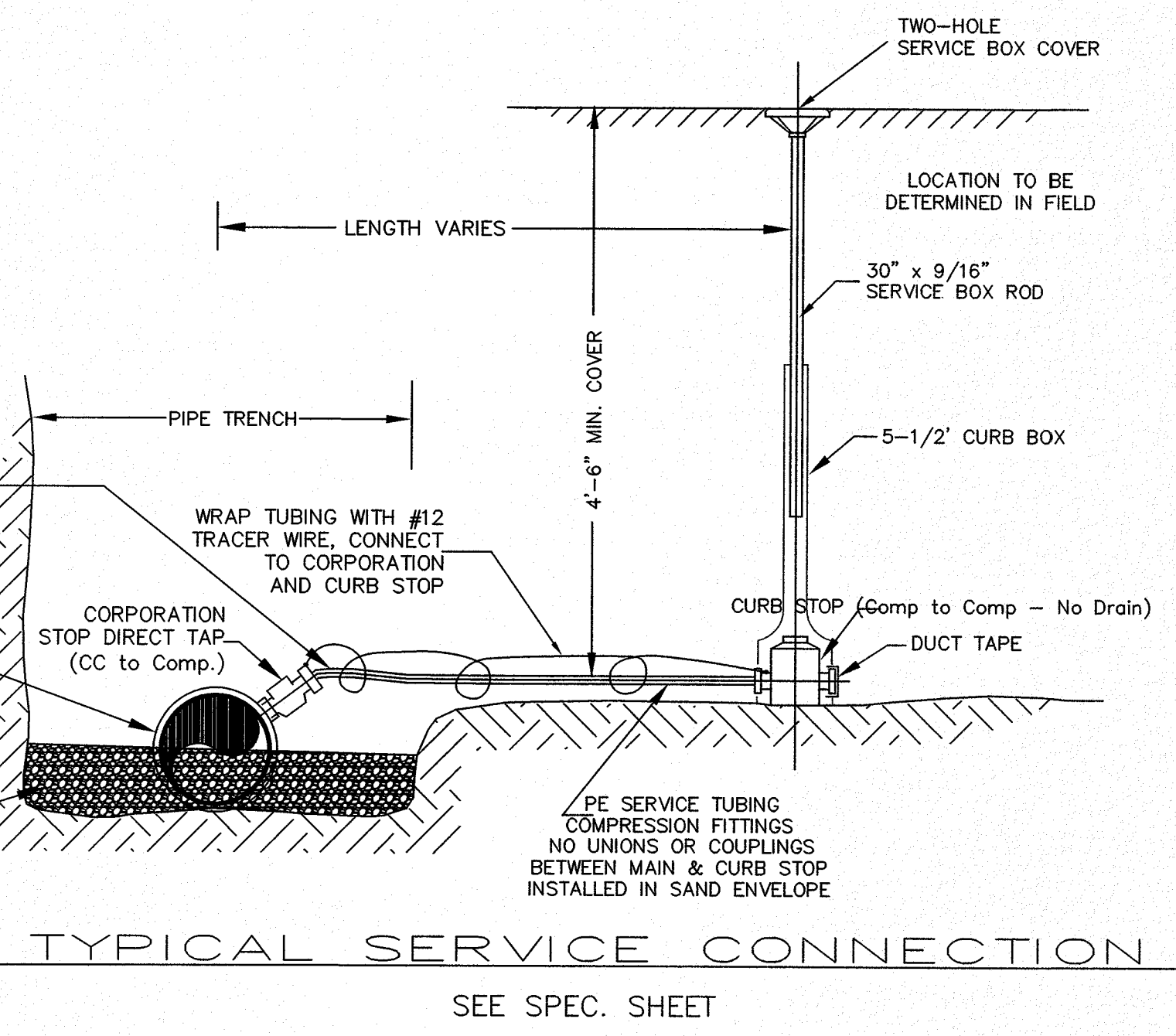
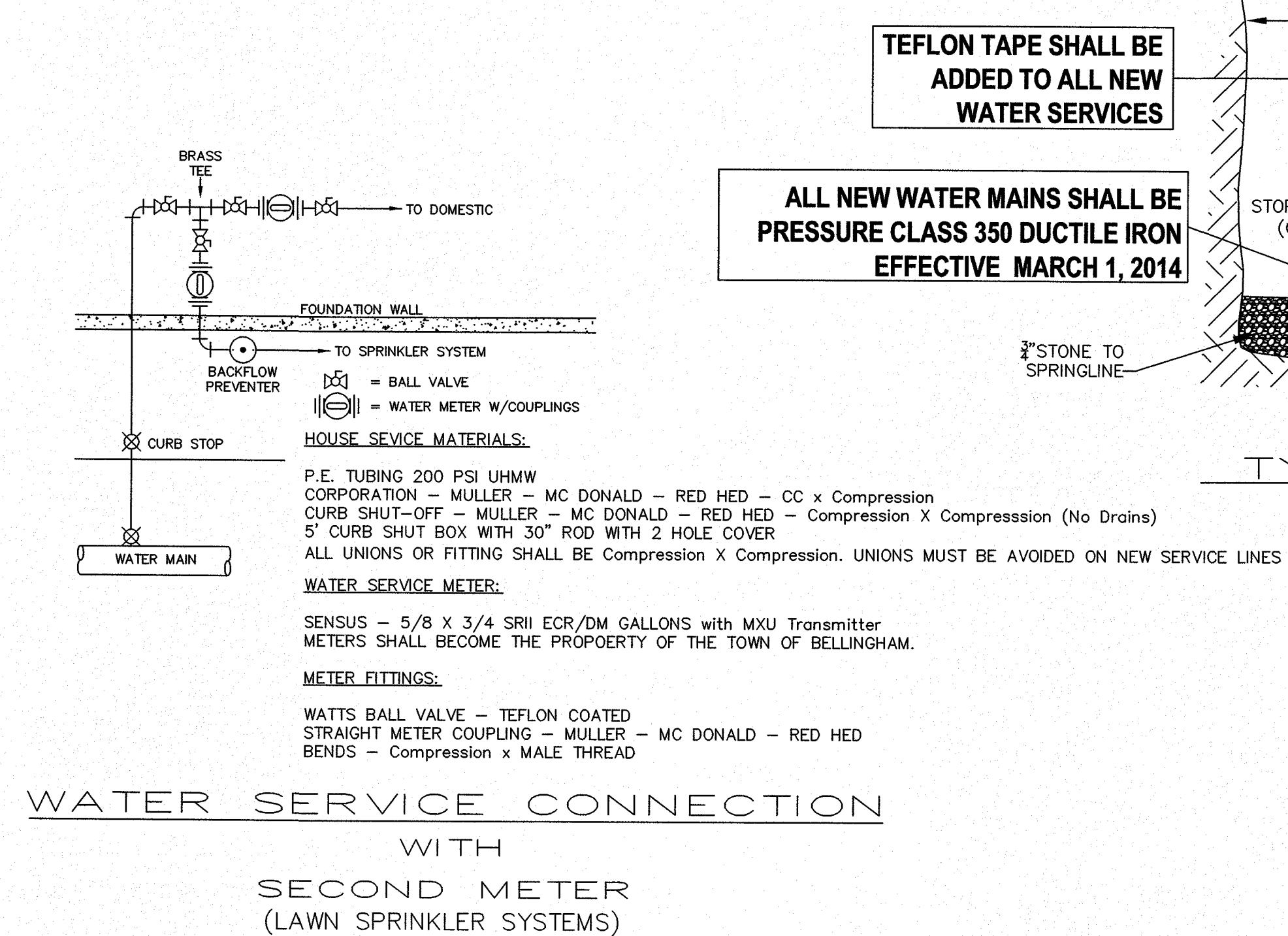
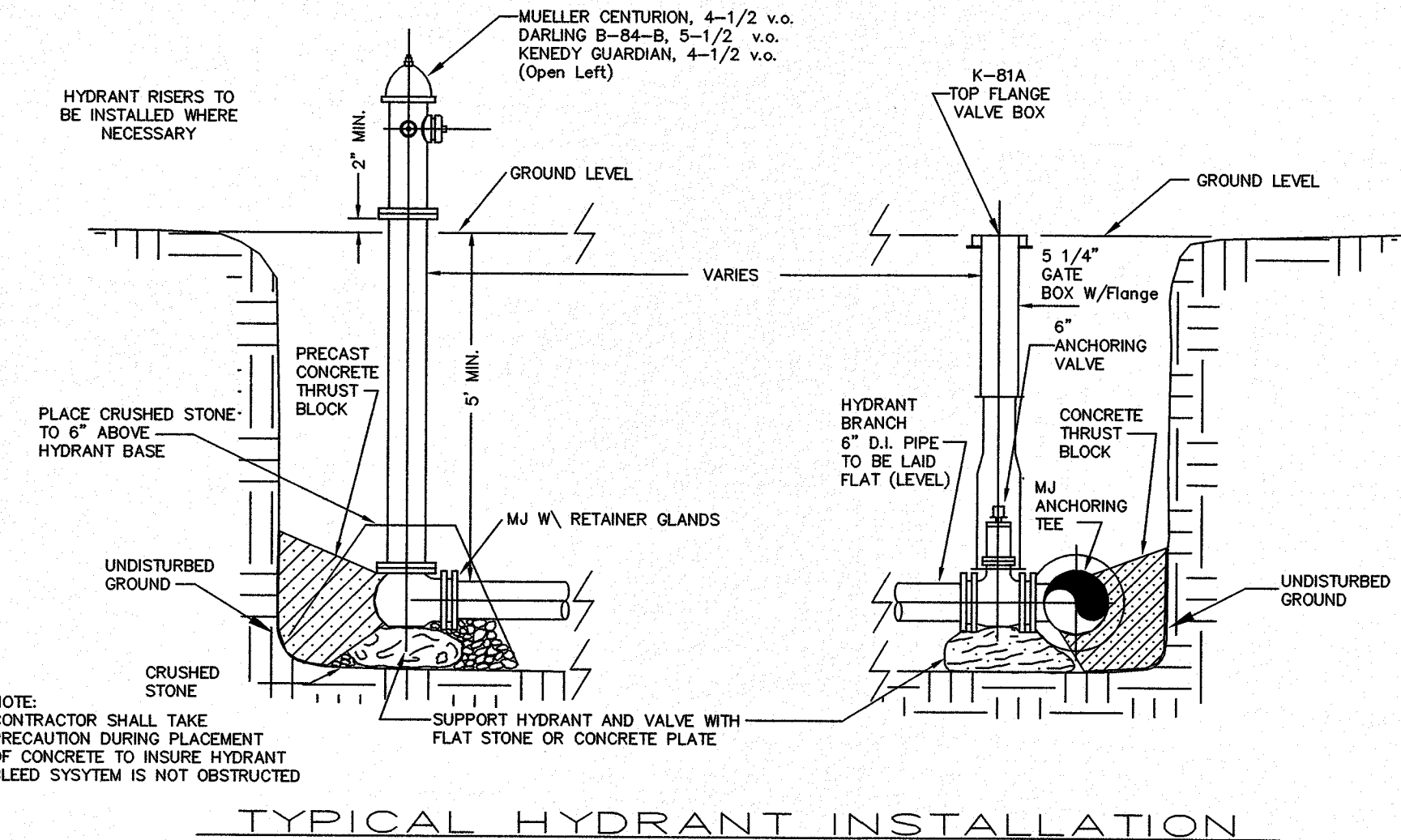
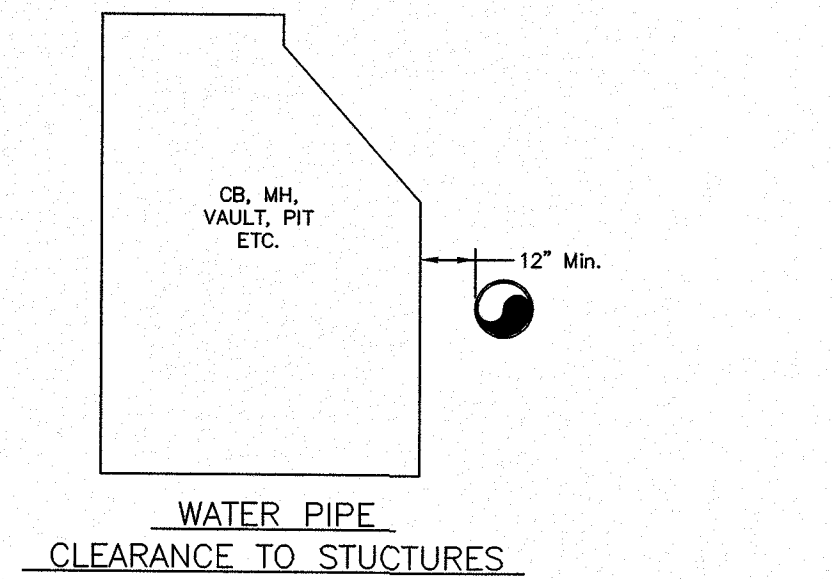
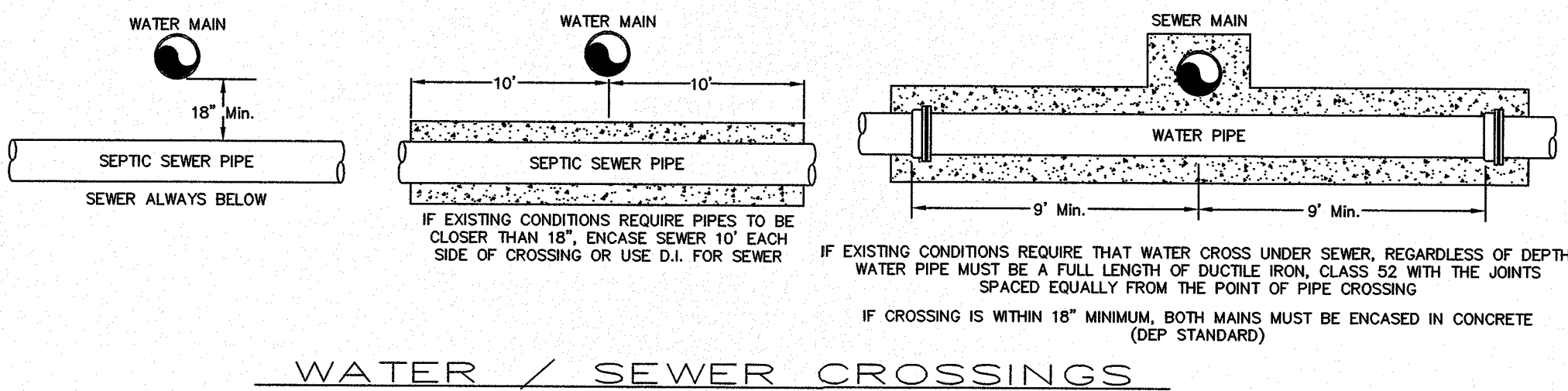
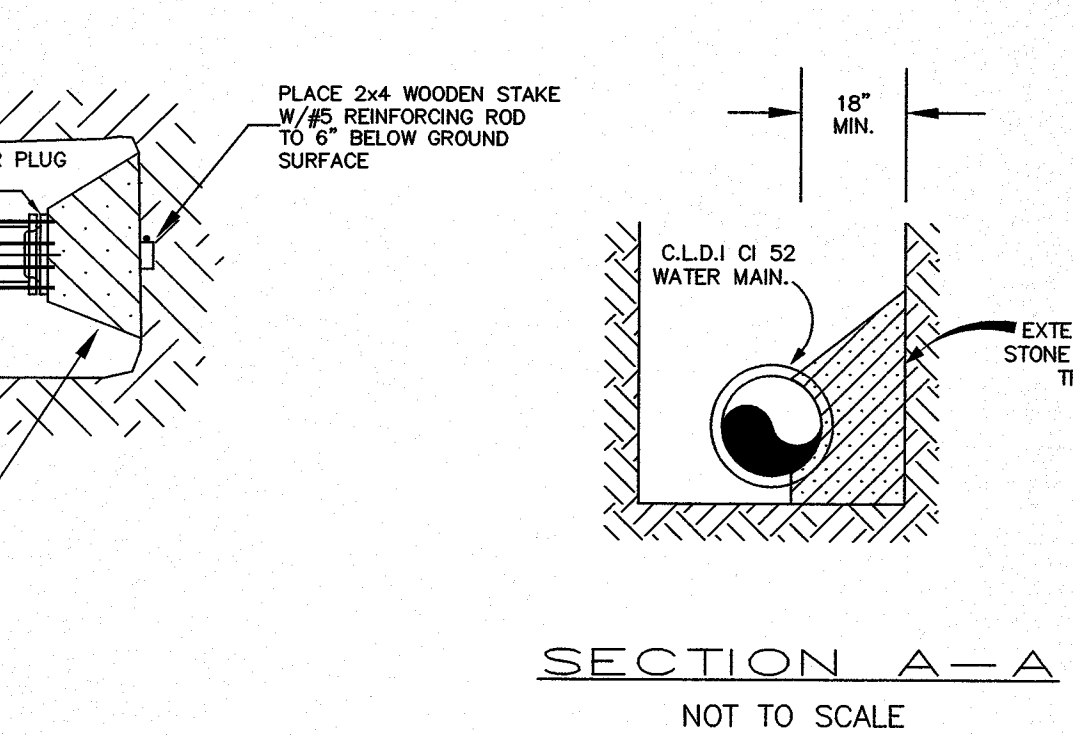
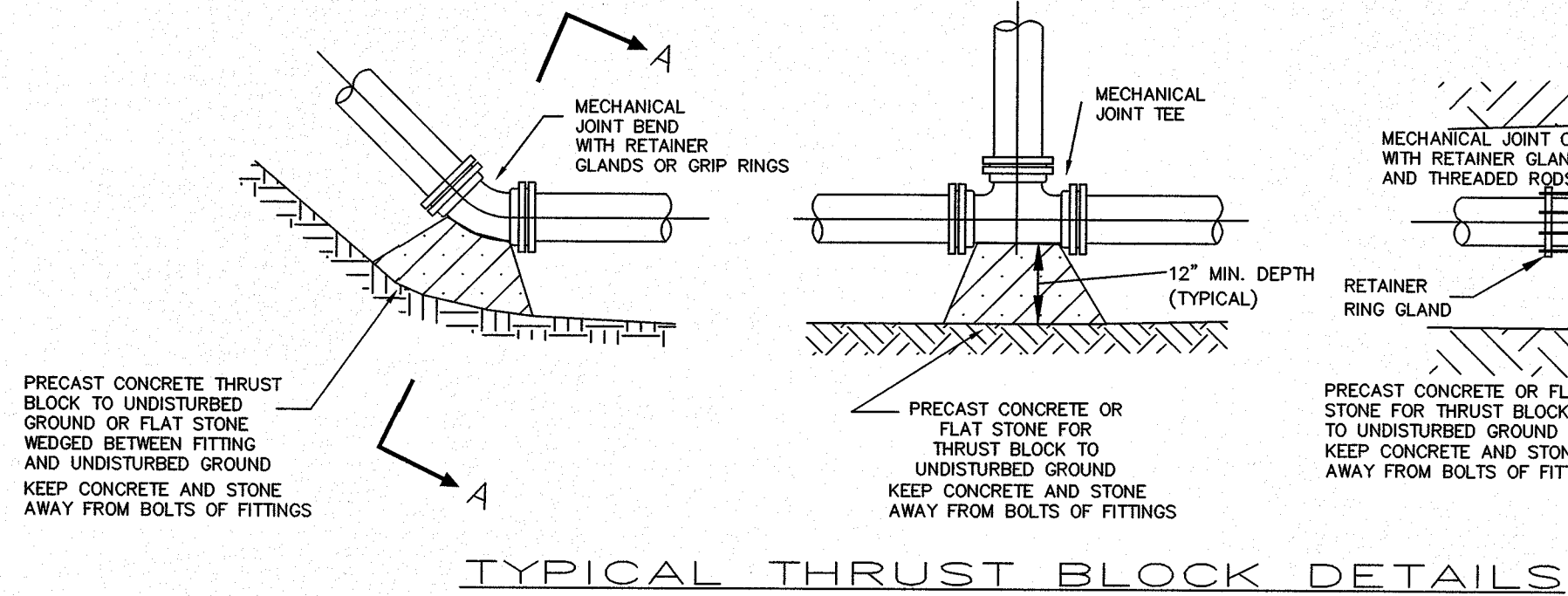
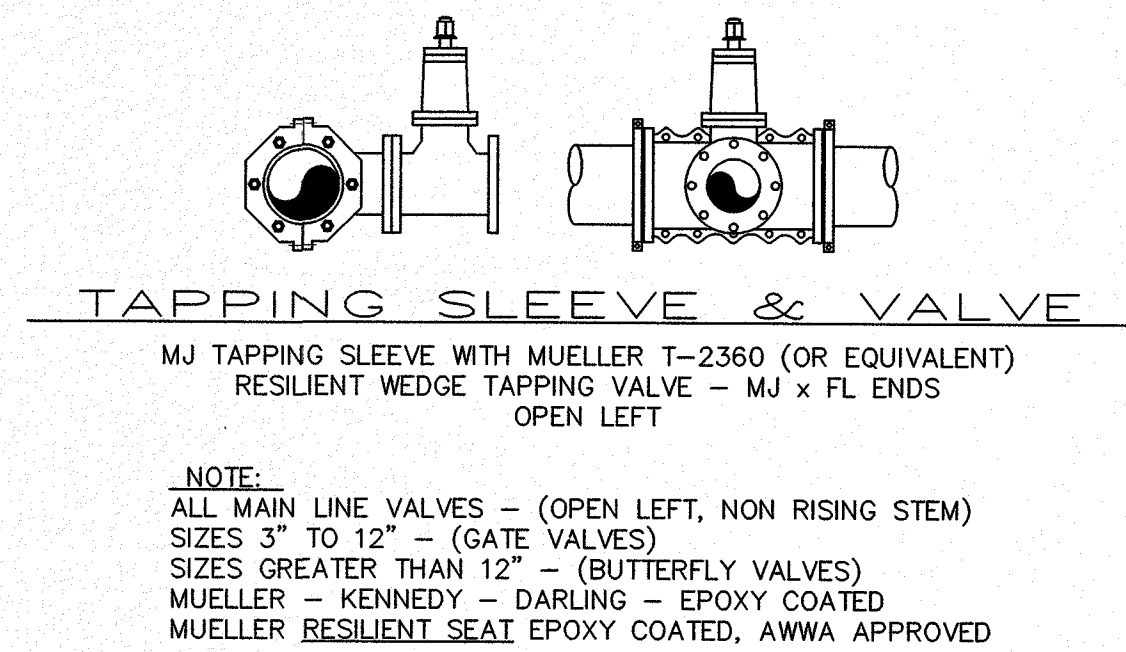
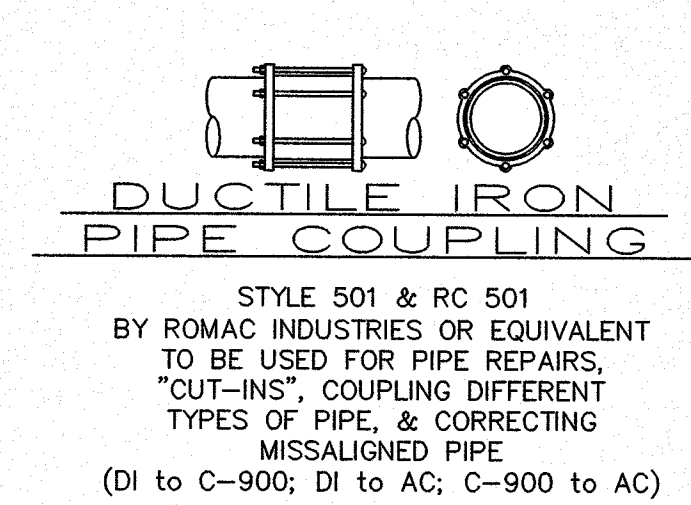
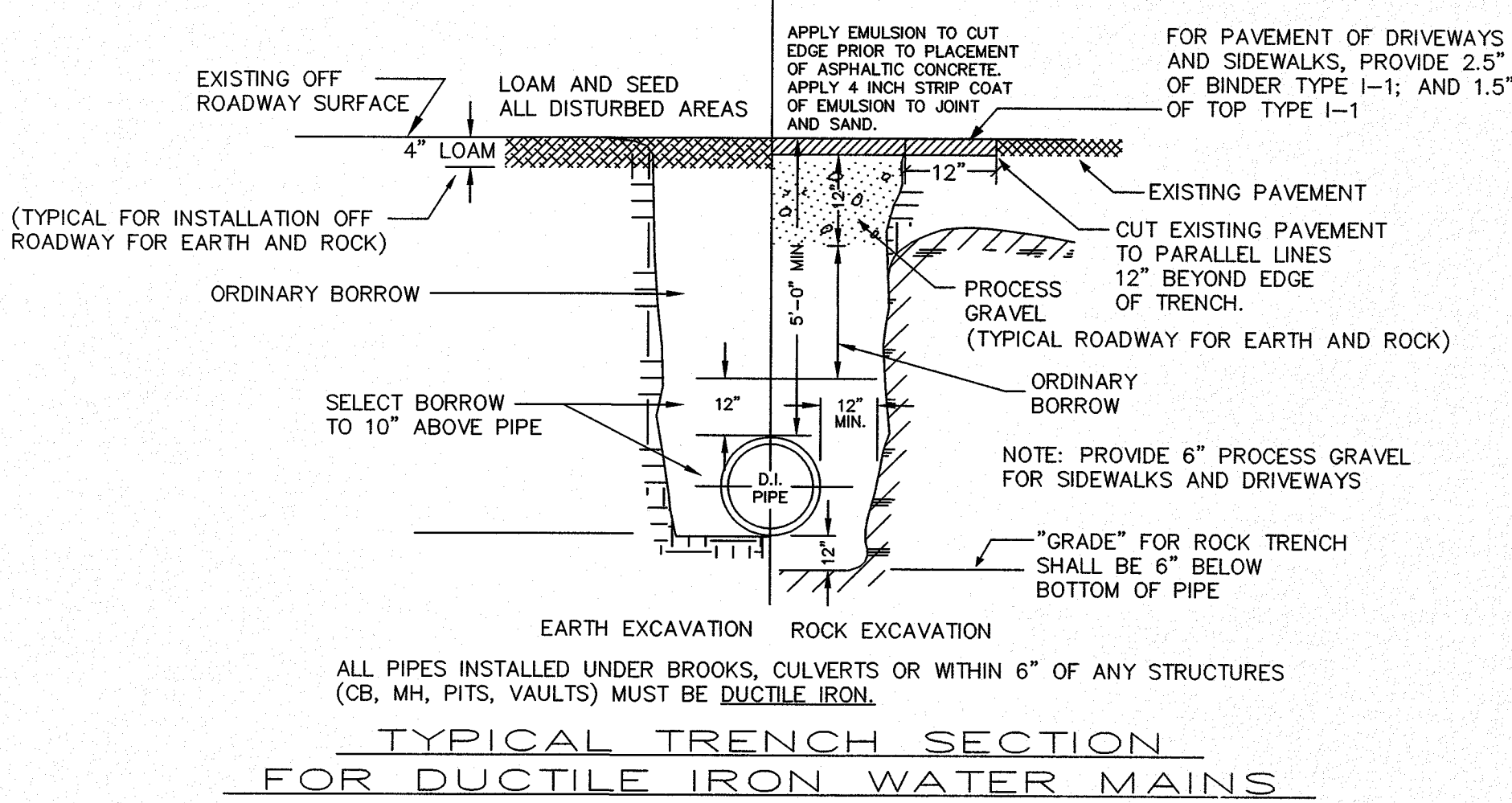
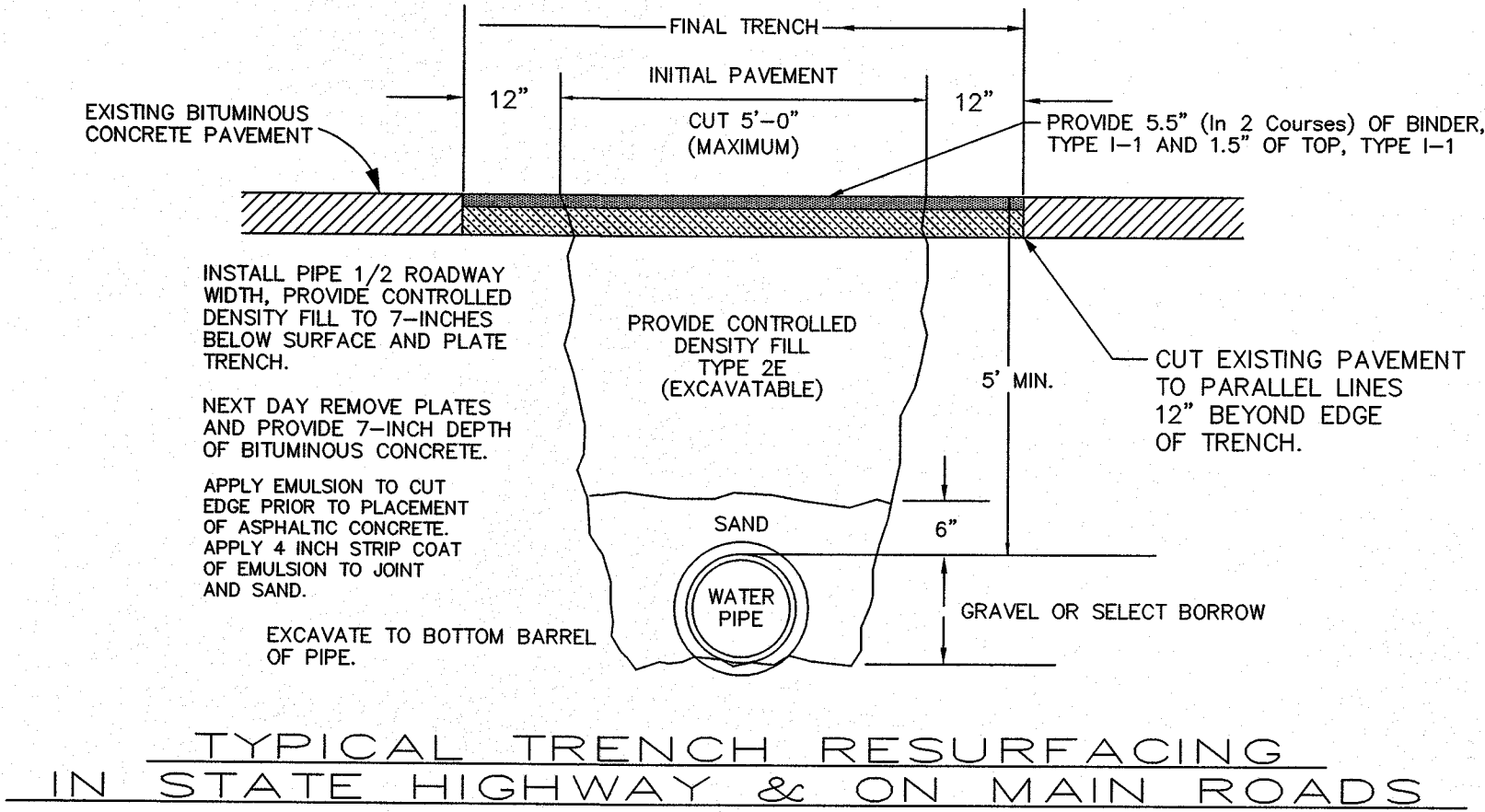
DRAWING NO.

C-8.5

PLAN NO. L-5506

NOTES:

1. ALL NEW WATER MAINS FROM 6" THRU 12" DIAMETER SHALL BE DUCTILE IRON PRESSURE CLASS 350 PIPE.
2. TEFLON TAPE SHALL BE REQUIRED FOR ALL DIRECT TAPS
3. NO DIRECT TAPS GREATER THAN 1" SHALL BE ALLOWED ON 6" THRU 12" DIAM. PIPE
4. ANY BRANCH OR SERVICES LARGER THAN 1" MUST BE ACCOMPLISHED BY INSTALLATION OF APPROPRIATE DUCTILE IRON FITTING
5. ALL WATER LINES & APPURTANENCES TO BE INSTALLED PER BELLINGHAM WATER DEPARTMENT SPECIFICATIONS.



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DRAWN BY TRB, RJF		
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DATE MAY 15, 2018		
PROJECT NO. 2017-395		

SHEET TITLE

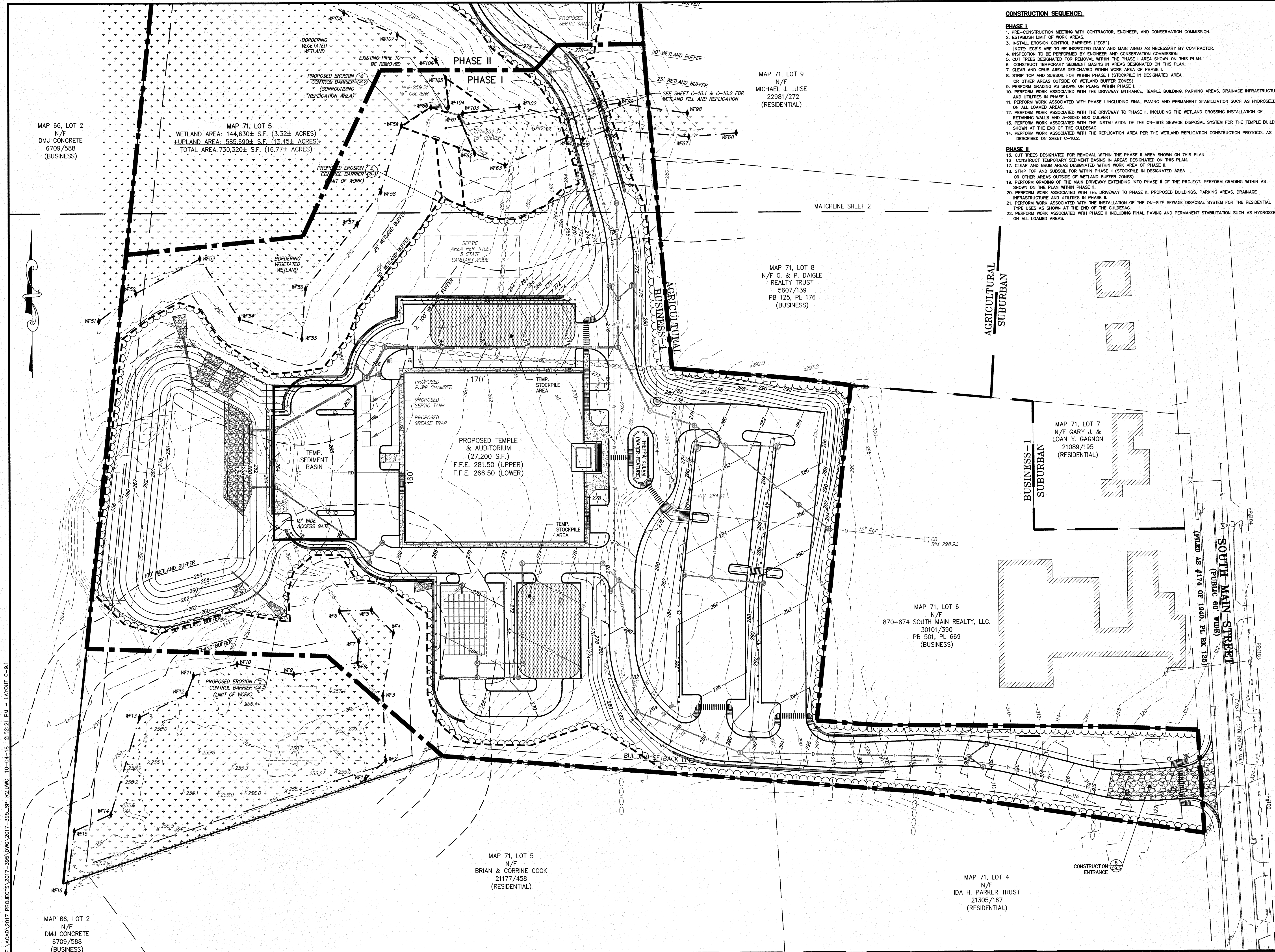
CONSTRUCTION
DETAILS

SHEET 6 OF 6

DRAWING NO.

C-8.6

PLAN NO. L-5506



CONSTRUCTION SEQUENCE

PHASE I

1. PRE-CONSTRUCTION MEETING WITH CONTRACTOR, ENGINEER, AND CONSERVATION COMMISSION.
2. ESTABLISH LIMIT OF WORK AREAS.
3. INSTALL EROSION CONTROL BARRIERS ("ECB").
4. INSPECTION TO BE PERFORMED BY ENGINEER AND CONSERVATION COMMISSION.
5. CUT TREES DESIGNATED FOR REMOVAL WITHIN THE PHASE I AREA SHOWN ON THIS PLAN.
6. CONSTRUCT TEMPORARY SEDIMENT BASINS IN AREAS DESIGNATED ON THIS PLAN.
7. CLEAR AND GRUB AREAS DESIGNATED WITHIN WORK AREA OF PHASE I.
8. STRIP TOP AND SUBSOIL FOR WITHIN PHASE I (STOCKPILE IN DESIGNATED AREA OR OTHER AREAS OUTSIDE OF WETLAND BUFFER ZONES).
9. PERFORM GRADING AS SHOWN ON PLANS WITHIN PHASE I.
10. PERFORM WORK ASSOCIATED WITH THE DRIVEWAY ENTRANCE, TEMPLE BUILDING, PARKING AREAS, DRAINAGE INFRASTRUCTURE AND UTILITIES IN PHASE I.
11. PERFORM WORK ASSOCIATED WITH PHASE I INCLUDING FINAL PAVING AND PERMANENT STABILIZATION SUCH AS HYDROSEED ON ALL LOAMED AREAS.
12. PERFORM WORK ASSOCIATED WITH THE DRIVEWAY TO PHASE II, INCLUDING THE WETLAND CROSSING INSTALLATION OF RETAINING WALLS AND 3-SEED BOX CULVERT.
13. PERFORM WORK ASSOCIATED WITH THE INSTALLATION OF THE ON-SITE SEWAGE DISPOSAL SYSTEM FOR THE TEMPLE BUILDING SHOWN AT THE END OF THE CULDESAC.
14. PERFORM WORK ASSOCIATED WITH THE REPLACEMENT AREA PER THE WETLAND REPLACEMENT CONSTRUCTION PROTOCOL AS DESCRIBED ON SHEET C-10.2.

PHASE II

15. CUT TREES DESIGNATED FOR REMOVAL WITHIN THE PHASE II AREA SHOWN ON THIS PLAN.
16. CONSTRUCT TEMPORARY SEDIMENT BASINS IN AREAS DESIGNATED ON THIS PLAN.
17. CLEAR AND GRUB AREAS DESIGNATED WITHIN WORK AREA OF PHASE II.
18. STRIP TOP AND SUBSOIL FOR WITHIN PHASE II (STOCKPILE IN DESIGNATED AREA OR OTHER AREAS OUTSIDE OF WETLAND BUFFER ZONES).
19. PERFORM GRADING OF THE MAIN DRIVEWAY EXTENDING INTO PHASE II OF THE PROJECT. PERFORM GRADING WITHIN AS SHOWN ON THE PLAN WITHIN PHASE II.
20. PERFORM WORK ASSOCIATED WITH THE DRIVEWAY TO PHASE II, PROPOSED BUILDINGS, PARKING AREAS, DRAINAGE INFRASTRUCTURE AND UTILITIES IN PHASE II.
21. PERFORM WORK ASSOCIATED WITH THE INSTALLATION OF THE ON-SITE SEWAGE DISPOSAL SYSTEM FOR THE RESIDENTIAL TYPE USES AS SHOWN AT THE END OF THE CULDESAC.
22. PERFORM WORK ASSOCIATED WITH PHASE II INCLUDING FINAL PAVING AND PERMANENT STABILIZATION SUCH AS HYDROSEED ON ALL LOAMED AREAS.



Andrews Survey & Engineering, Inc.
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North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:13 am, Jan 04, 2019

BEING A MAJORITY

DATE:

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

PROJECT:

APPLICANT:

REVISIONS

NO.	DATE	DESCRIPTION
1	9/17/18	PER REVIEW COMMENTS.
2	10/02/18	PER REVIEW COMMENTS.

CAD FILE ... \dwg\2017-395_SP.dwg

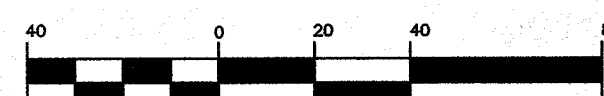
DRAWN BY TRB, RJF

CHECKED BY RMM, BJA

DATE MAY 15, 2018

PROJECT NO. 2017-395

GRAPHIC SCALE

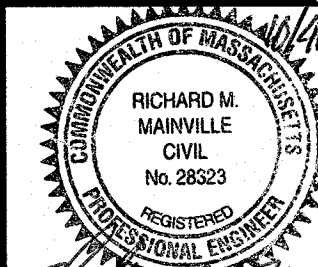


(IN FEET)
1 inch = 40 feet

SHEET TITLE

EROSION & SEDIMENT
CONTROL PLAN

SHEET 1 OF 2



DRAWING NO.

C-9.1

PLAN NO. L-5506

F:\ACAD\2017 PROJECTS\2017-395.DWG 2017-395_SP_R2.DWG 10-04-18 4:11:52 PM - LAYOUT C-9.2

MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
+UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

MAP 67, BLOCK 1, LOT 4
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 67, BLOCK 1, LOT 3
N/F PETER G. DAIGLE
34946/359
(RESIDENTIAL)

MAP 67, BLOCK 1, LOT 2
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 71, LOT 9
N/F
MICHAEL J. LUISE
22981/272
(RESIDENTIAL)

ASE

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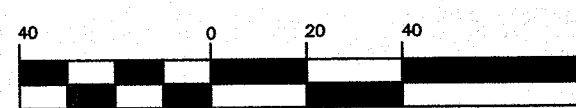
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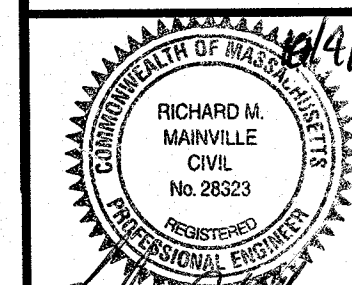


(IN FEET)
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SHEET TITLE

EROSION & SEDIMENT
CONTROL PLAN

SHEET 2 OF 2



DRAWING NO.

C-9.2

PLAN NO. L-5506

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EROSION AND SEDIMENT CONTROL REQUIREMENTS

PART 1 – GENERAL

1.01 SUMMARY

A. FURNISH, INSTALL, AND MAINTAIN TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS, BUT NOT NECESSARILY LIMITED TO, STRAW BALE AND SILT FENCE BARRIERS, RIPRAP, VEHICLE TRACKING PADS, DIVERSION CHANNELS AND BERMS, CHECK DAMS, STRATEGICALLY LOCATED STOCKPILES, SEDIMENT BASINS, MULCH, AND SEED MIX (HEREINAFTER "CONTROL MEASURES") ADEQUATE TO PREVENT THE CONVEYANCE OF EROSION PRODUCTS (E.G. SOIL, MULCH, SO2) OFF SITE, OR INTO ENVIRONMENTALLY SENSITIVE AREAS, OR INTO AREAS WHERE WORK WILL BE ADVERSELY IMPACTED. ENVIRONMENTALLY SENSITIVE AREAS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, WETLANDS, TRIBUTARIES TO WETLANDS, WETLAND BUFFER ZONES, INTERMITTENT AND PERENNIAL STREAMS / RIVERS, AND THEIR ATTENDANT BUFFER ZONES.

ALL METHODS AND MATERIALS USED FOR EROSION CONTROL SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN "EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS A GUIDE FOR PLANNERS, DESIGNERS, AND MUNICIPAL OFFICIALS" AS PUBLISHED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF RESOURCE PROTECTION, UNLESS OTHERWISE APPROVED IN WRITING.

1. REFER TO DRAWINGS FOR LOCATION AND DETAILS OF LIMITS OF DISTURBANCE AND CONTROL MEASURES REQUIRED TO COMMENCE WORK. LIMITS OF DISTURBANCE SHALL BE MARKED WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE PRIOR TO COMMENCING ANY LAND DISTURBANCE ACTIVITIES. CONTROL MEASURES WILL BE ADEQUATE ONLY FOR VEGETATION CLEARING. THE DRAWINGS ARE NOT INTENDED TO GRAPHICALLY DEPICT ALL CONTROL MEASURES THAT WILL BE REQUIRED TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A.

2. DEVISE AND EMPLOY CONTROL MEASURES THROUGHOUT THE DURATION OF PROJECT, OVER ALL AREAS DISTURBED OR UNDISTURBED BY CONSTRUCTION, AS NECESSARY TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A.

3. DEVISE AND EMPLOY TEMPORARY CONTROL MEASURES AS NECESSARY TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A, WHILE ALLOWING WORK TO PROCEED IN AN EFFICIENT, COST EFFECTIVE MANNER.

4. DEVISE, EMPLOY AND MAINTAIN CONTROL MEASURES UNTIL SUCH TIME AS THE ENTIRE SITE IS PERMANENTLY STABILIZED BY ESTABLISHED VEGETATION, FINISH LANDSCAPE MATERIALS, PAVED SURFACES, AND/OR ROOF AREA.

5. ONCE THE SITE IS PERMANENTLY STABILIZED AND CERTIFIED AS SUCH BY ENGINEER, REMOVE TEMPORARY CONTROL MEASURES WHILE PROTECTING STABILIZED SURFACES.

1.02 SUBMITTALS

A. SUBMIT PRODUCT DATA, WARRANTY, AND TEST REPORTS AS INDICATED ON THE DRAWINGS.

B. SUBMIT SKETCH SHOWING LOCATIONS OF PROPOSED STOCKPILE AREAS, CONSTRUCTION ENTRANCES AND EROSION CONTROLS IF NOT SHOWN ON THE SITE PLAN OR DIFFERENT FROM THOSE LOCATIONS SHOWN ON THE SITE PLAN.

C. A SITE SPECIFIC SEQUENCE OF CONSTRUCTION FOR EACH PORTION OF THE SITE. NO PORTION OF THE SITE SHALL EXCEED FIVE (5) ACRES.

1.03 QUALITY ASSURANCE

A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS FROM ACCEPTABLE MANUFACTURERS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. CONFORM TO CONDITIONS OF APPROVAL ISSUED BY REGULATORY AGENCIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, LOCAL PLANNING BOARD, CONSERVATION COMMISSION, CITY COUNCIL, BOARD OF HEALTH, PUBLIC WORKS / HIGHWAY DEPARTMENT, STATE ENVIRONMENTAL PROTECTION DEPARTMENT, AND U.S. GOVERNMENT, ENVIRONMENTAL PROTECTION AGENCY. WHERE CONDITIONS OF REGULATORY APPROVAL DIFFER FROM REQUIREMENTS CONTAINED HEREIN OR ON THE DRAWINGS, COMPLY WITH THE MORE STRINGENT REQUIREMENT.

PART 2 – PRODUCTS

2.01 MATERIALS

A. STRAW BALES: WEED FREE DRY GRASS OR STRAW, MACHINE BOUND WITH JUTE OR WIRE. APPROXIMATE SIZE EACH BALE 42" x 16" x 16". EACH BALE SHALL BE STAKED WITH A MINIMUM OF TWO 24" LONG HARDWOOD STAKES. NOTE: HAY SHALL NOT BE USED.

B. STRAW WATTLES: NORTH AMERICAN GREEN MODEL WS1210 OR APPROVED EQUAL.

C. SILT FENCE: NON-WOVEN, UV-RESISTANT, POLYPROPYLENE FABRIC, FLOW RATED AT 10 GPM/SF MINIMUM, GRAB TENSILE RATED AT 124 POUNDS MINIMUM, WITH INTEGRAL STAKE LOOPS, AND HARDWOOD STAKES. USE NO. 2130 BY AMOCO FABRICS & FIBERS, OR APPROVED EQUAL.

D. MULCH: ORGANICS INCLUDING STRAW, PROCESSED PINE / HEMLOCK TWIGS AND NEEDLES.

E. SEED MIXES: SHALL MEET THE REQUIREMENTS OF MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION SECTION 6.03.0 OR 6.03.1 AS APPROPRIATE.

F. EXCELSIOR BLANKET: CURLED WOOD FIBER ON PHOTODEGRADABLE EXTRUDED PLASTIC MATRIX, BOX OF FIBERS 6-INCHES LONG OR LONGER, WEIGHT 0.975 POUNDS / SY, CONTAINING NO CHEMICAL ADDITIVES. USE CUREX I BLANKET BY AMERICAN EXCELSIOR COMPANY, OR APPROVED EQUAL.

G. ROCK RIPRAP: SOUND, ANGULAR, 6-INCH MINUS PROCESSED ROCK, BLAST ROCK, OR TAILINGS.

H. CRUSHED STONE: SOUND, ANGULAR, 2-INCH MINUS PROCESSED CRUSHED STONE.

PART 3 – EXECUTION

3.01 THROUGHOUT CONSTRUCTION

A. DEVISE WORK SEQUENCE SO AS TO LIMIT DRAINAGE AREA THAT IS TRIBUTARY TO DISTURBED AREAS. DEVISE, EMPLOY, AND MAINTAIN CONTROL MEASURES SUCH AS DIVERSION CHANNELS AND BERMS, STRATEGICALLY LOCATED STOCKPILES, AND SEDIMENT BASINS TO SUBDIVIDE DRAINAGE AREAS INTO SMALL, MANAGEABLE SUBAREAS, THEREBY MINIMIZING RUNOFF AND THE POTENTIAL FOR EROSION.

B. MAINTAIN BARRIER AT LIMIT OF WORK AND PROTECT EXISTING VEGETATION / FACILITIES OUTSIDE OF LIMIT OF WORK.

C. MAINTAIN SPARE MATERIAL STOCKPILES FOR IMMEDIATE EMPLOYMENT / REPAIR / EXPANSION OF CONTROL MEASURES. AT A MINIMUM, SUCH MATERIALS SHALL INCLUDE HAY BALES, SILT FENCE AND STAKES, AND CRUSHED STONE.

D. INSPECT AND MAINTAIN EFFECTIVENESS OF CONTROL MEASURES BY REPAIRING AS NECESSARY TO ENSURE INTENDED FUNCTION; BY SUPPLEMENTING AS NECESSARY FOR ADEQUATE EXTENT; BY REMOVING TRAPPED PRODUCTS OF EROSION AS NECESSARY TO MAINTAIN EFFECTIVE TRAP VOLUME.

E. LIMIT EXTENT OF WORK AREA SO THAT ALL DISTURBED AREAS CAN BE STABILIZED WITH CONTROL MEASURES WITHIN A 24-HOUR PERIOD.

F. INSTALL CONTROL MEASURES AS SOON AS PRACTICABLE AFTER EACH MANAGEABLE PORTION OF EARTHWORK IS COMPLETE. EMPLOY TEMPORARY MEASURES AS NECESSARY TO STABILIZE DISTURBED AREAS, EVEN WHERE SUBSEQUENT CONSTRUCTION OPERATIONS MAY REQUIRE RE-DISTURBANCE.

PART 3 – CONTINUED

G. WHEN INTENSE RAINFALL IS EXPECTED, CONSIDER, DEVISE, AND EMPLOY REINFORCING CONTROL MEASURES PRIOR TO THE RAINFALL EVENT TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A. IF NECESSARY, EMPLOY TEMPORARY CONTROL MEASURES ON MATERIAL STOCKPILES TO COUNTERACT POTENTIAL SEDIMENT TRANSPORT DURING INTENSE RAINFALL.

H. WHEN VEHICLE REFUELING IS REQUIRED ON SITE, CONDUCT REFUELING OPERATIONS OUTSIDE OF ENVIRONMENTALLY SENSITIVE AREAS.

I. PROPERLY DISPOSE OF DEBRIS, SOLID WASTE, TRASH, AND CONSTRUCTION WASTE / BYPRODUCTS OFF SITE.

J. SWEEP ON-SITE PAVED AREAS AND OFF-SITE STREETS AS NECESSARY TO PREVENT SILT AND DEBRIS ORIGINATING ON SITE FROM ENTERING CLOSED DRAINAGE SYSTEMS AND / OR ENVIRONMENTALLY SENSITIVE AREAS. WHEN NECESSARY UTILIZE WATER SPRAYING, SURFACE ROUGHENING AND/OR APPLY POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES AND BARRIERS FOR DUST CONTROL.

K. INSPECT EROSION CONTROLS DAILY THROUGHOUT CONSTRUCTION REPAIR DAMAGED CONTROLS IMMEDIATELY.

3.02 SITE PREPARATION AND ACCESS

A. WALK SITE AND IDENTIFY LOCATIONS OF LIMIT OF WORK AND ENVIRONMENTALLY SENSITIVE AREAS. ESTABLISH CONSTRUCTION STAGING AREA, LOCATED BEYOND ENVIRONMENTALLY SENSITIVE AREAS.

B. INSTALL CONTROL MEASURES AS SHOWN ON THE DRAWINGS, INCLUDING THOSE DEFINING THE LIMIT OF WORK.

C. LIMIT VEHICULAR TRAFFIC TO AND FROM SITE TO MINIMIZE TRANSPORT OF SEDIMENT.

3.03 CLEARING, GRUBBING, AND STRIPPING

A. SCHEDULE GRUBBING AND STRIPPING TO OCCUR IMMEDIATELY PRIOR TO EARTH DISTURBANCE. DEPENDING ON SITE AREA, CONSIDER MULTIPLE GRUBBING PHASES, SEQUENCED TO TAKE ADVANTAGE OF THE EROSION PREVENTION POTENTIAL OF EXISTING VEGETATIVE COVER.

B. MINIMIZE THE AREA OF EXISTING VEGETATION REMOVED WHEREVER POSSIBLE. NO GREATER THAN FIVE (5) ACRES SHALL BE UNSTABLE AT ANY TIME.

C. LOCATE AND SIZE STOCKPILES TO MINIMIZE EROSION POTENTIAL, TAKING ADVANTAGE OF TERRAIN SLOPE AND ASPECT, WHERE APPROPRIATE.

D. PROTECT VEGETATION, INCLUDING ROOT SYSTEMS, BEYOND LIMIT OF CLEARING.

E. PROCESS TIMBER, STUMPS, SLASH, AND BRUSH SO AS TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS AND INSTALLED CONTROL MEASURES. PROPERLY DISPOSE OF EXCESS OFF SITE. BURIAL OF STUMPS ON SITE IS PROHIBITED.

3.04 EXCAVATION FOR BUILDING FOUNDATIONS AND UTILITIES

A. DEVISE AND INSTALL CONTROL MEASURES ADEQUATE TO HANDLE DISCHARGES AND TRAP SEDIMENT FROM FOOTING SUMP AND WELL POINT PUMPS PRIOR TO EXCAVATION.

B. ARMOR SLUMP PUMP DISCHARGE LOCATIONS TO PREVENT EROSION AT POINT OF DISCHARGE AND AREAS DOWNSTREAM.

C. IF FOUNDATION EXCAVATIONS GRADE TO DAYLIGHT ON THE LOW SIDE, DEVISE AND INSTALL CONTROL MEASURES TO HANDLE SURFACE AND GROUNDWATER FLOW FROM EXCAVATION LOW POINT.

D. STOCKPILE EXCAVATED MATERIALS TO BAFFLE OVERLAND RUNOFF, AVOIDING THE CREATION OF LENGTHY PATHS OF CONCENTRATED RUNOFF. STOCKPILE SLOPES SHALL NOT EXCEED 2:1.

E. BACKFILL UTILITY TRENCHES AS SOON AS PRACTICABLE TO PREVENT FLOODING, SLOUGHING, POTENTIAL OVERFLOW, AND REPETITIVE EARTH DISTURBANCE.

3.05 SITE GRADING

A. WHERE APPLICABLE, FOLLOW EXCAVATION AND FILL PRACTICES SHOWN ON DRAWINGS TO LOCALIZE AND MINIMIZE EROSION.

B. MONITOR SEDIMENT VOLUME IN TEMPORARY SEDIMENT BASINS AND AT DIVERSION BERMS AND CHECK DAMS. IN ALL AREAS EXCEPT THOSE THAT DO NOT PRESENT POTENTIAL PROBLEMS WITH REGARD TO FUTURE SOIL STABILITY, DRAINAGE, OR BEARING CAPACITY, REMOVE AND PROPERLY DISPOSE OF TRAPPED SEDIMENT BEFORE BRINGING SITE TO FINAL SUBGRADE.

C. EXPOSED SOILS SHALL BE PERMANENTLY STABILIZED WITHIN FIVE (5) BUSINESS DAYS OF COMPLETION OF CONSTRUCTION OF A GIVEN AREA. EXPOSED AREAS WHERE NO WORK HAS OCCURRED FOR FOURTEEN (14) DAYS SHALL BE TEMPORARILY STABILIZED WITH HYDROSEED OR OTHER APPROVED METHOD.

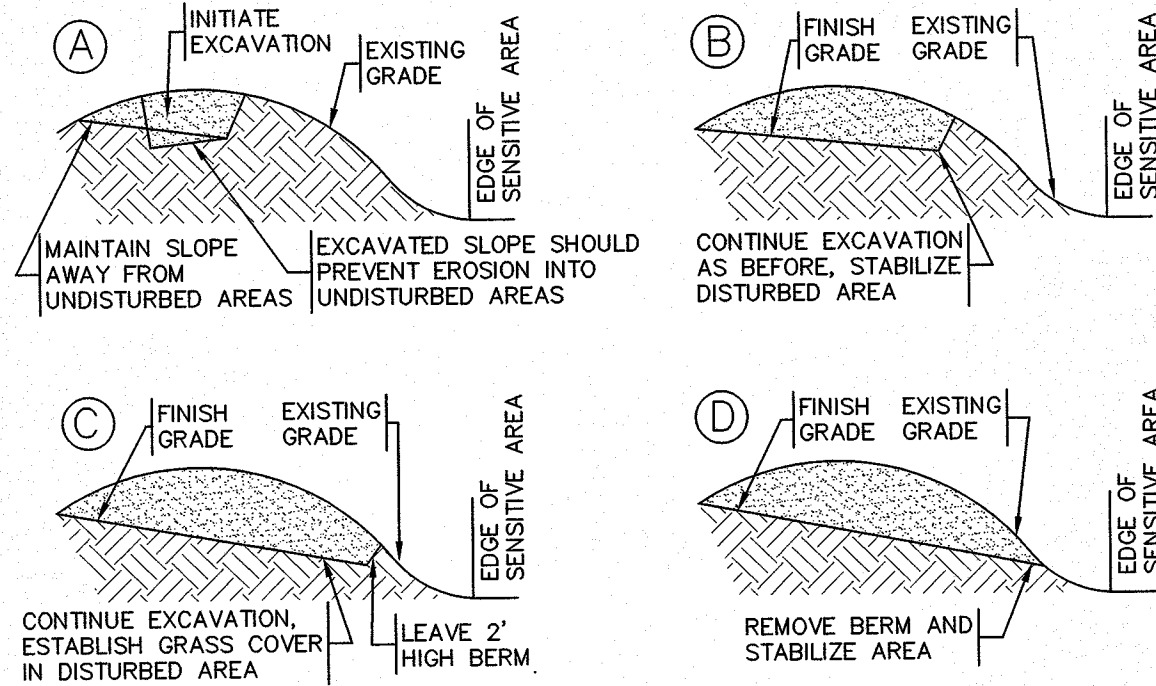
D. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED IMMEDIATELY AFTER COMPLETION.

3.06 LANDSCAPING

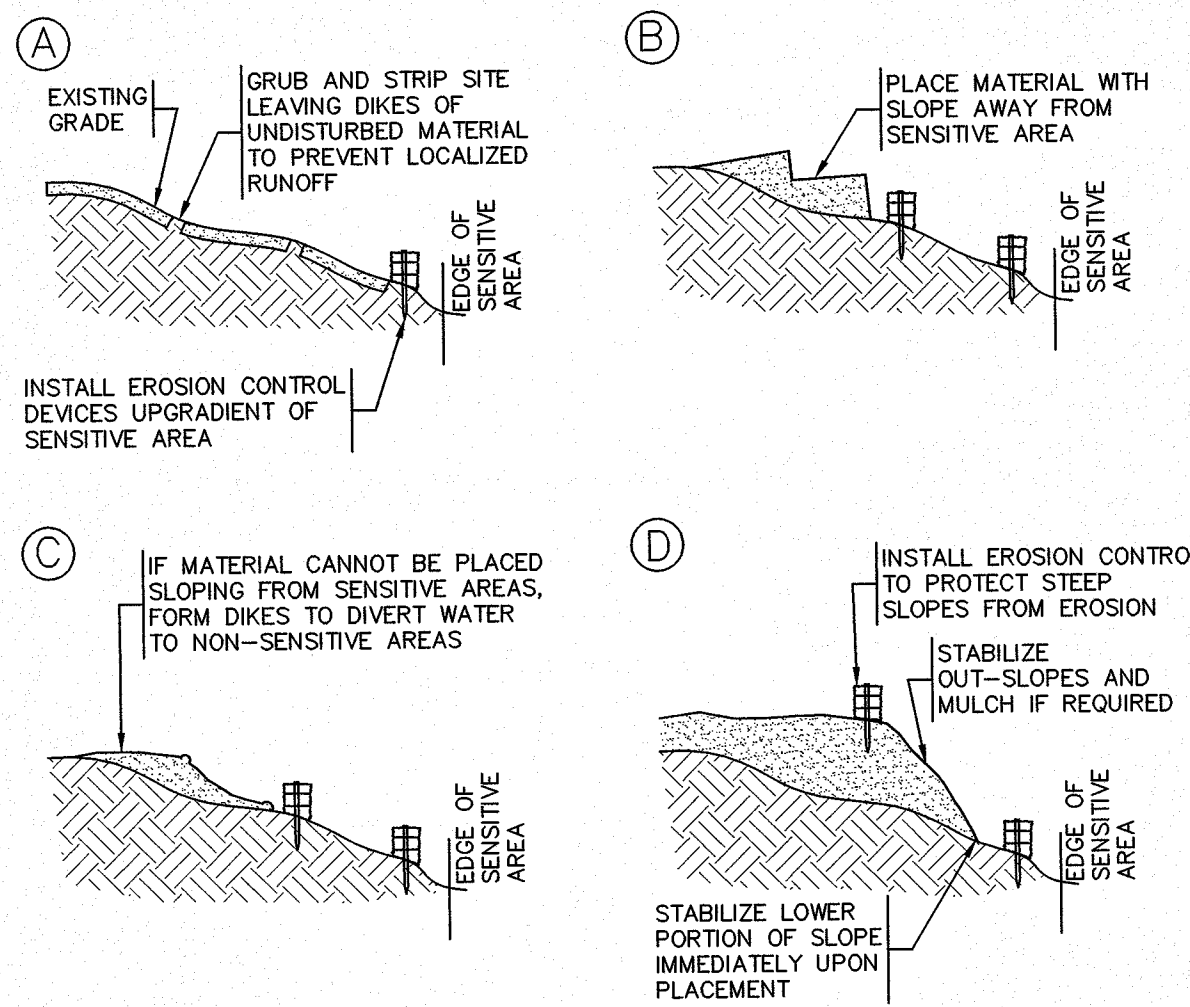
A. COMPLETE LANDSCAPING AS SOON AS POSSIBLE AFTER COMPLETION OF FINAL SUBGRADE.

B. IMMEDIATELY AFTER PLACEMENT OF TOPSOIL, STABILIZE WITH CONTROL MEASURES INCLUDING, BUT NOT NECESSARILY LIMITED TO, SEED MIX, MULCH, AND / OR BLANKET.

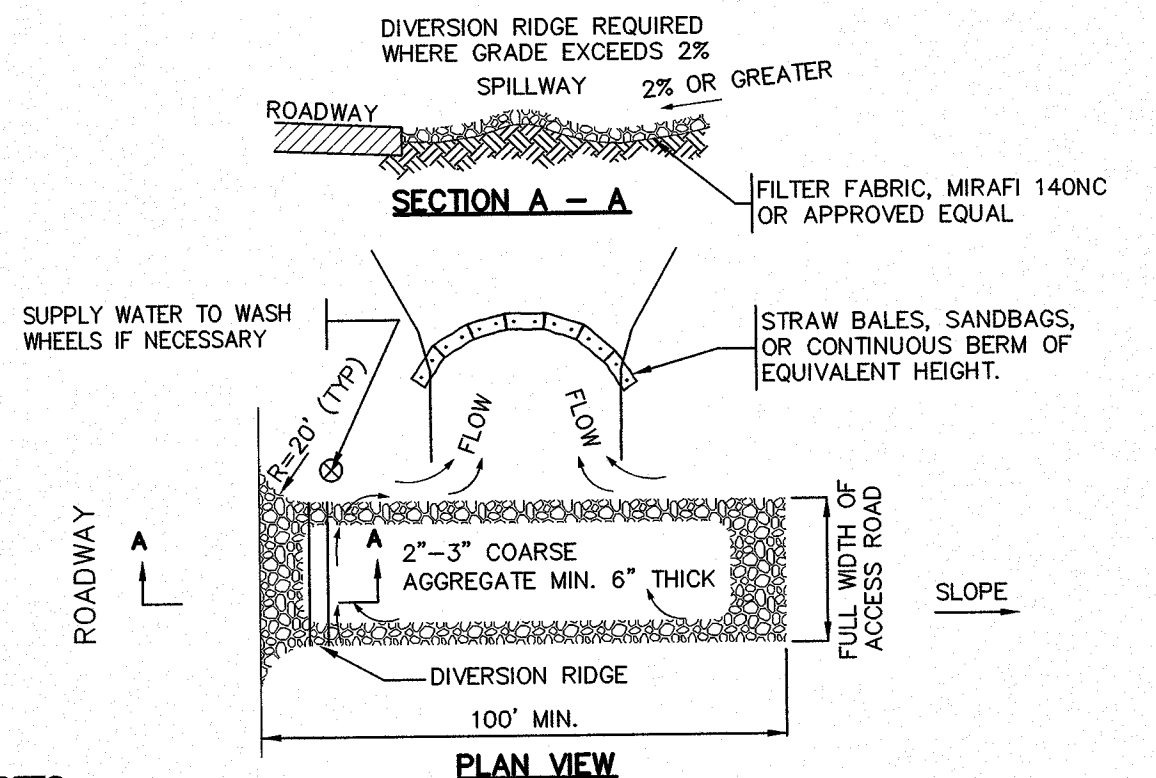
C. PERMANENT SEEDING MAY BE PERFORMED IN THE SPRING PRIOR TO JULY 1 AND IN BETWEEN AUGUST 1 AND OCTOBER 15. PERMANENT SEEDING AT OTHER TIMES SHALL BE APPROVED AND SHALL ONLY BE ALLOWED WITH AN APPROVED MULCHING AND IRRIGATION PROGRAM.



1 EXCAVATION PROCEDURE
SCALE: N.T.S.

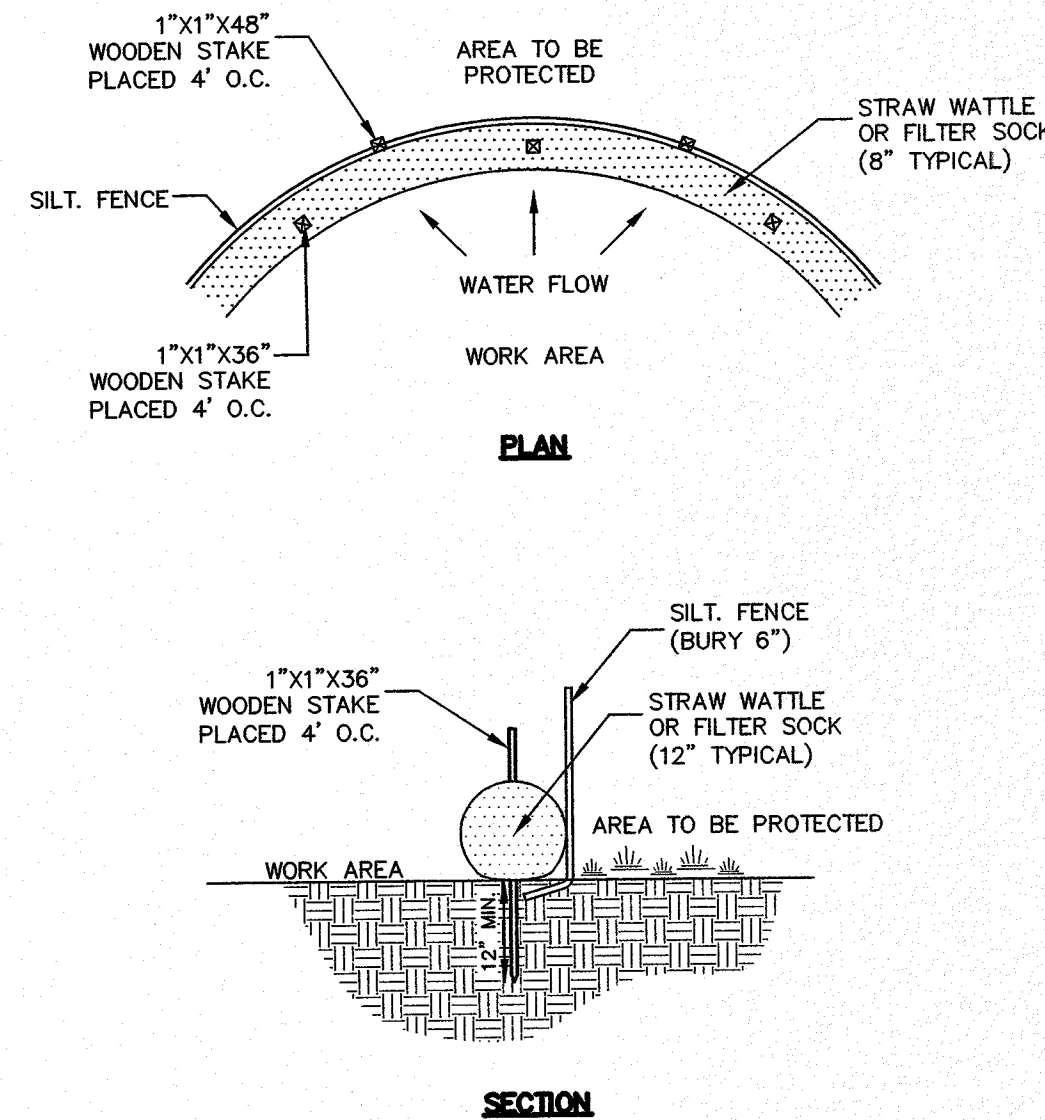


3 FILL PROCEDURE
SCALE: N.T.S.

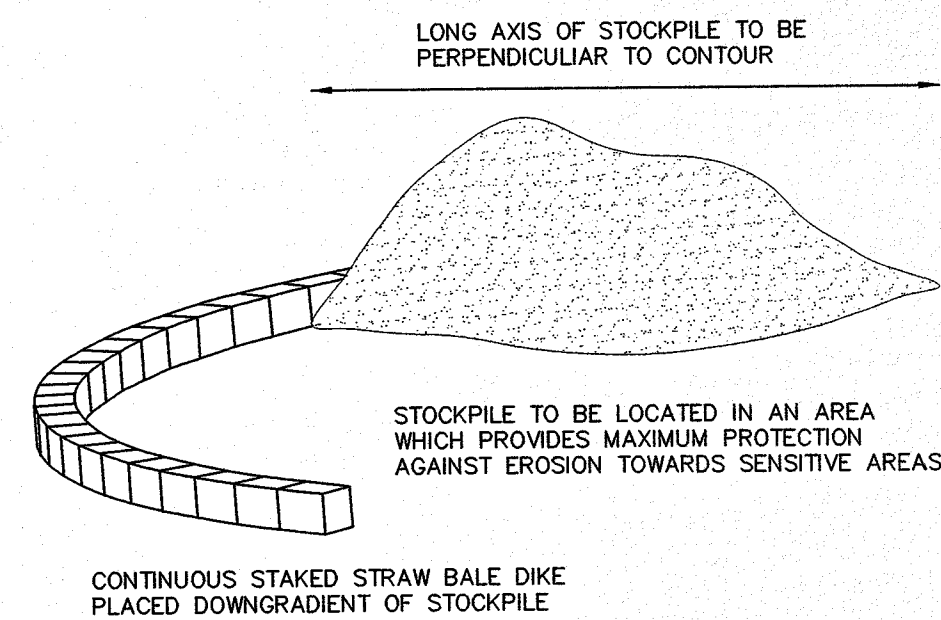


NOTES:
[1] THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
[2] WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
[3] WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
[4] USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

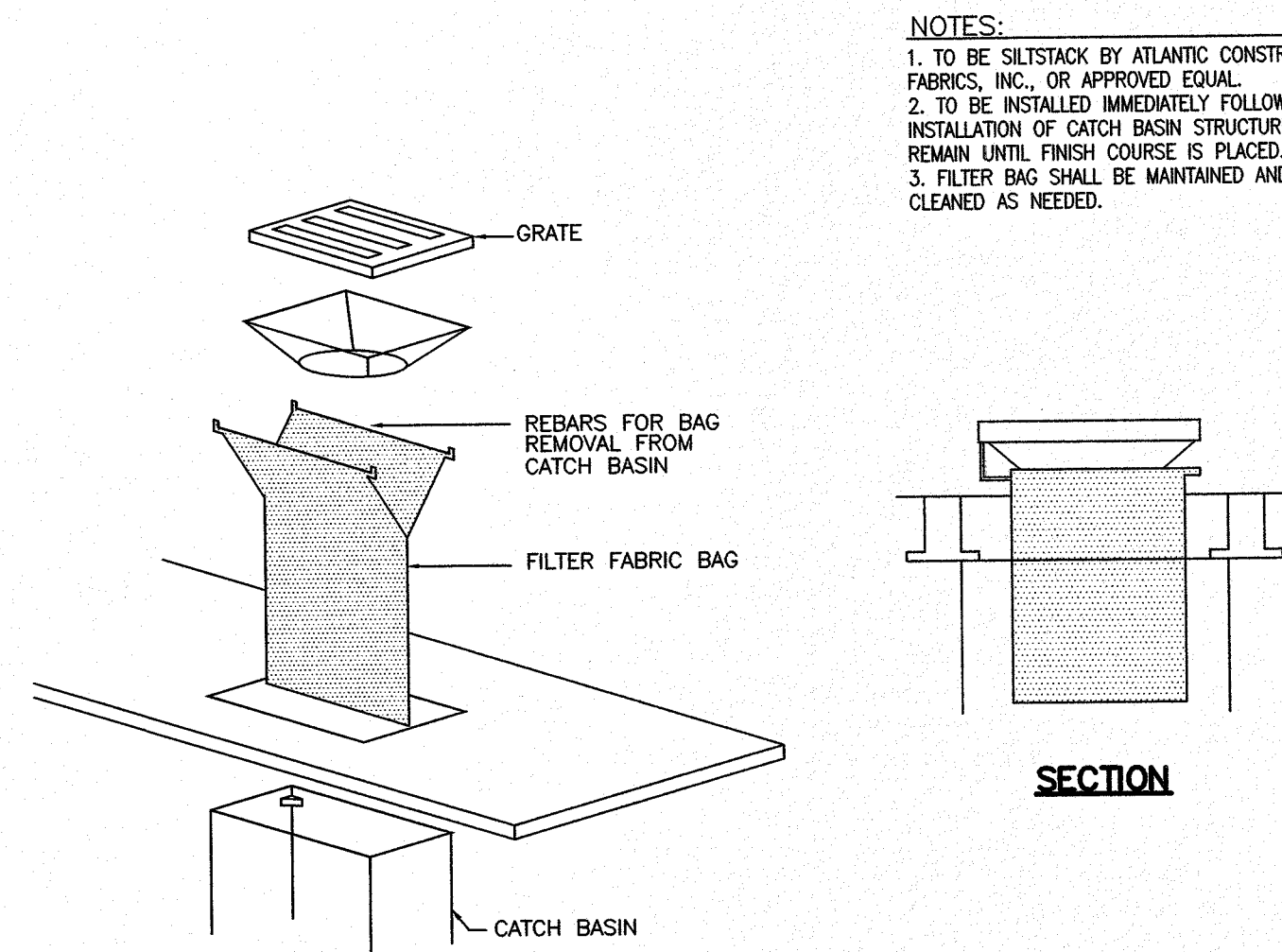
5 CONSTRUCTION ENTRANCE
SCALE: N.T.S.



2 EROSION CONTROL BARRIER (ECB)
SCALE: N.T.S.



4 TEMPORARY STOCKPILE
SCALE: N.T.S.



6 TYPICAL CATCH BASIN FILTER BAG DETAIL
SCALE: N.T.S.



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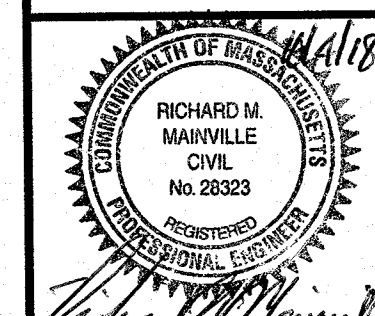
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SHEET TITLE

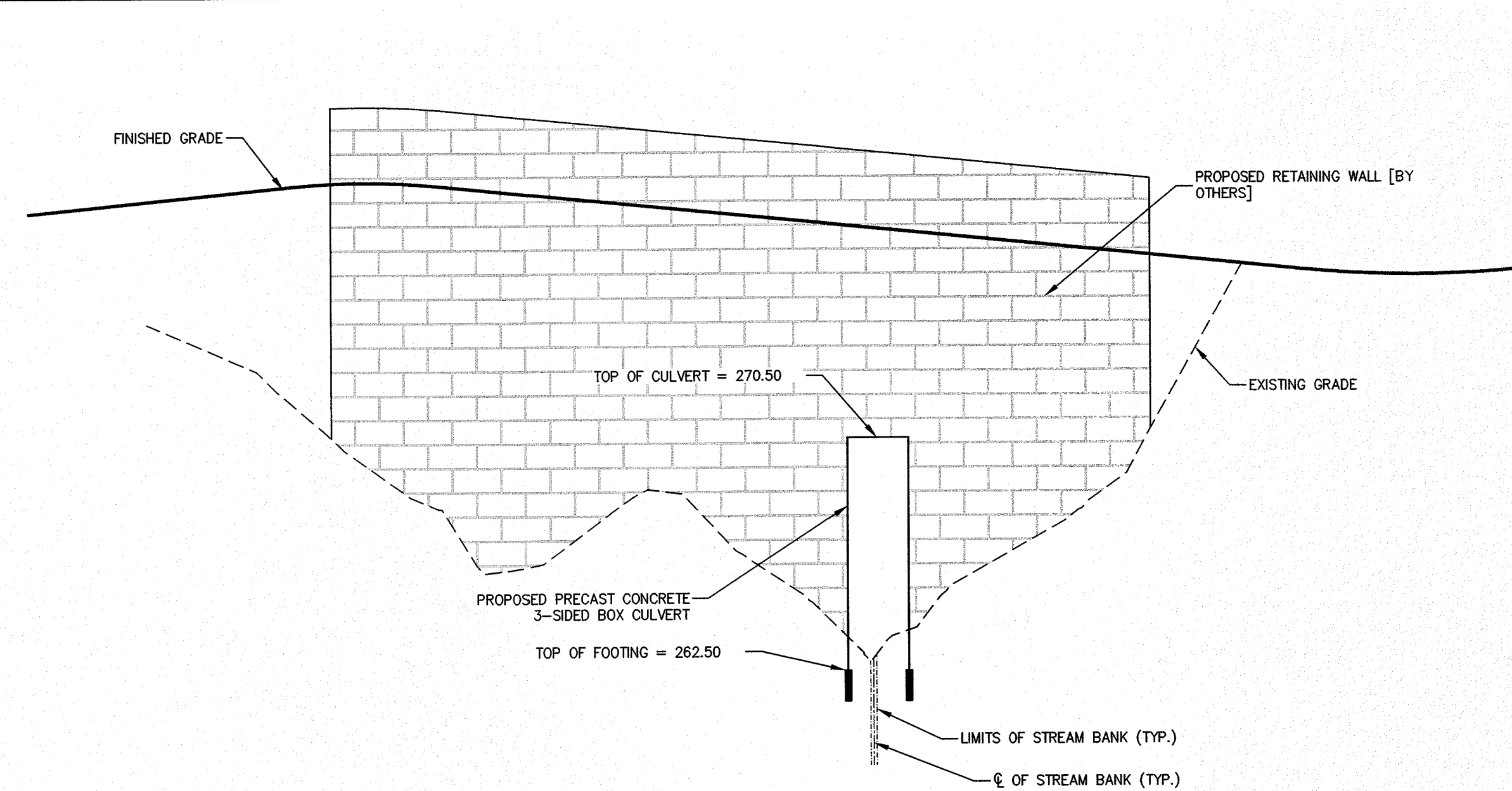
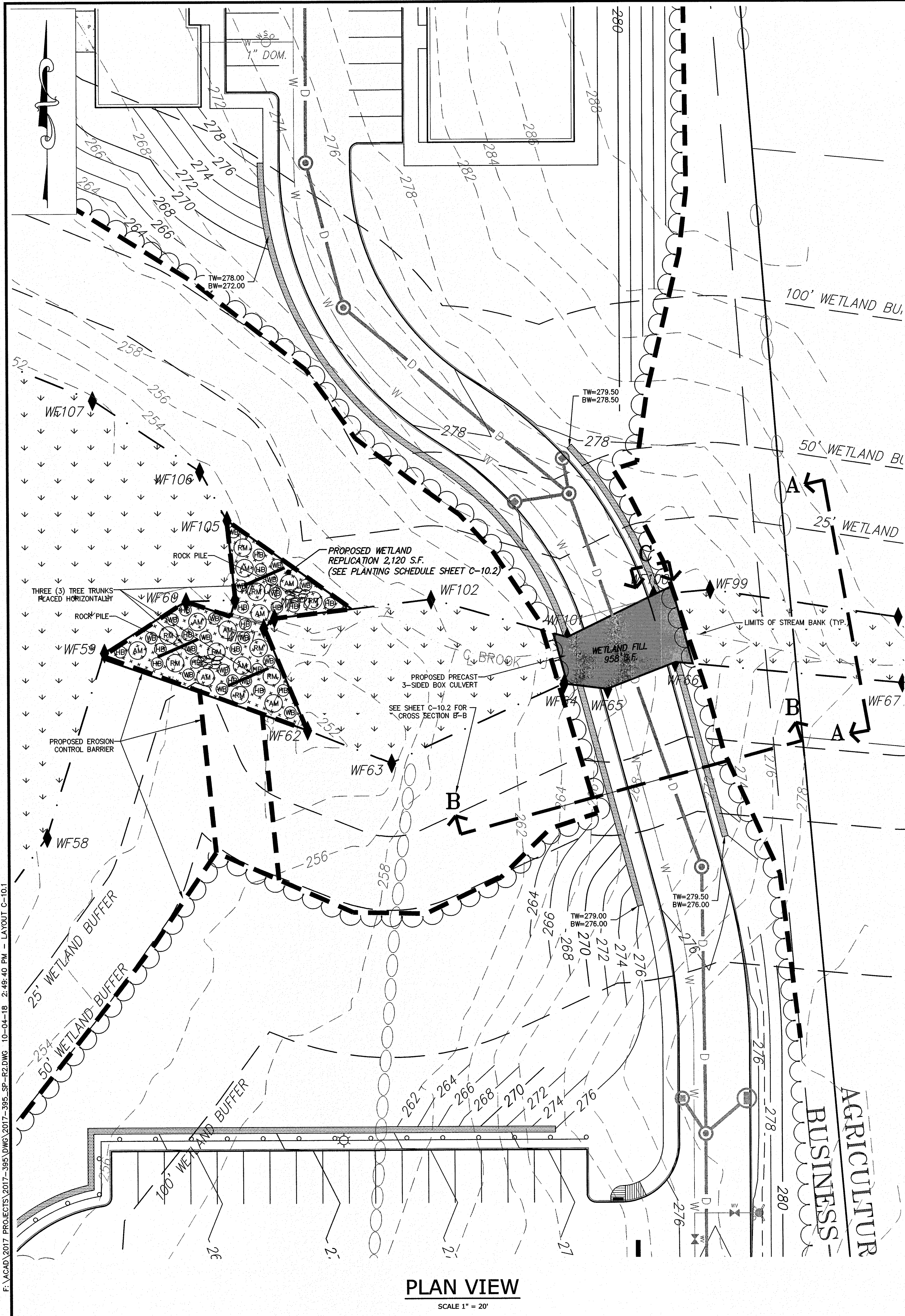
EROSION & SEDIMENT
CONTROL NOTES
& DETAILS



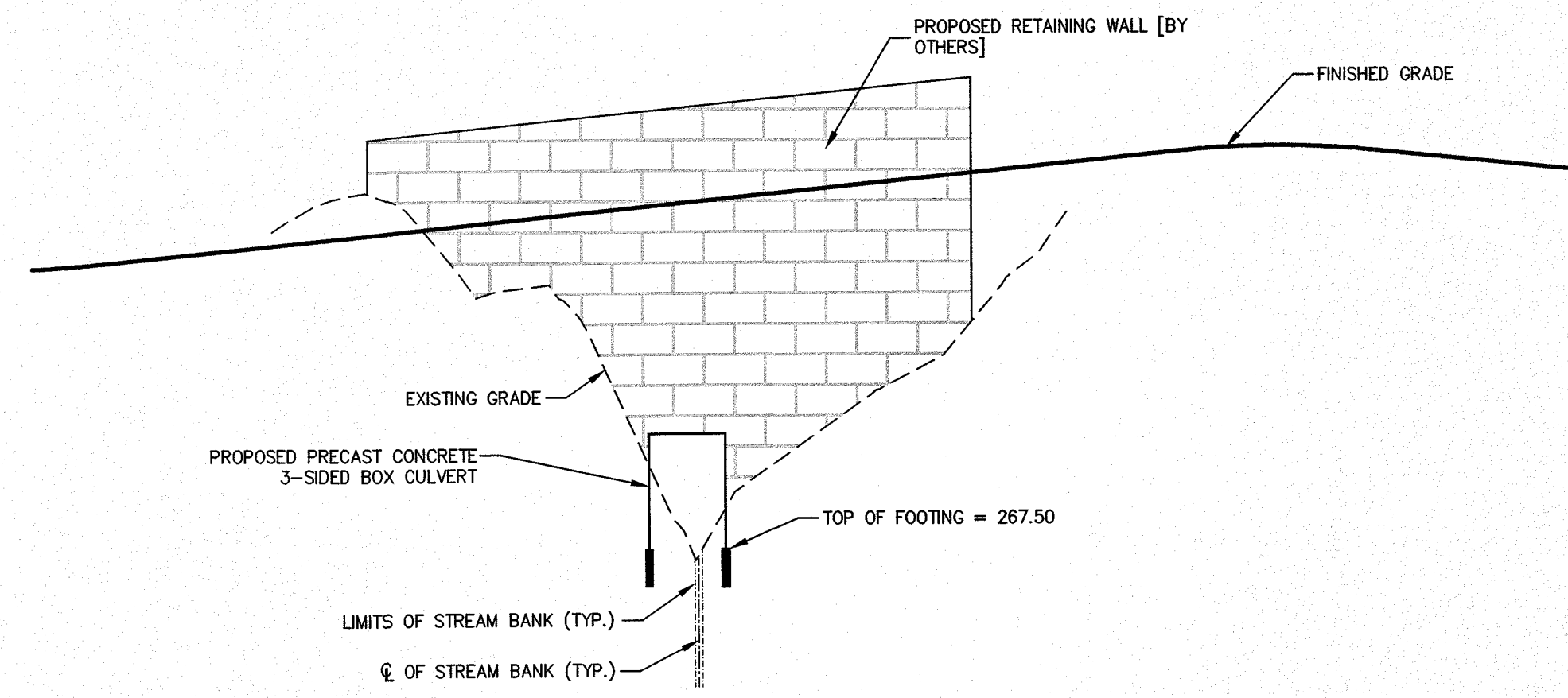
DRAWING NO.

C-9.3

PLAN NO. L-5506



CROSS SECTION A-A
LOOKING EAST AT WEST RETAINING WALL
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



CROSS SECTION A-A
LOOKING WEST AT EAST RETAINING WALL
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



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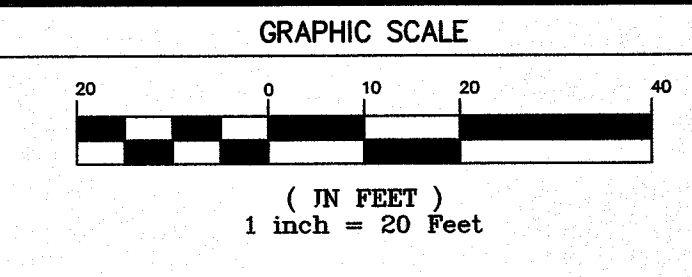
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SHEET TITLE
**WETLANDS
REPLICATION PLAN**
SHEET 1 OF 2

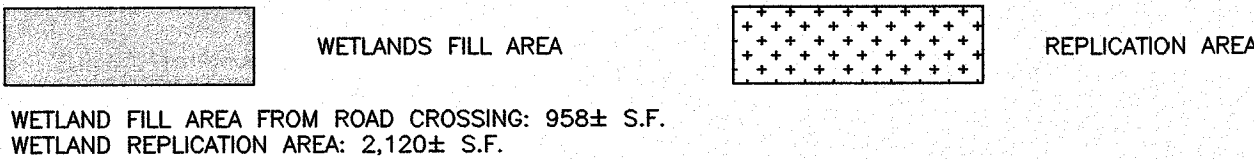
DRAWING NO.
C-10.1
PLAN NO. L-5506

WETLAND REPLICATION CONSTRUCTION PROTOCOL:

- THE FOLLOWING PROTOCOL CONFORMS TO THE GENERAL PERFORMANCE STANDARDS IN THE MA WETLANDS PROTECTION ACT REGULATIONS AT 310 CMR 10.55(4)(B) AS SUMMARIZED IN TABLE 2. PLEASE NOTE THAT THE REPLICATION AREA WILL BE BROUGHT TO SUB-GRADE PRIOR TO INITIATING WORK AT THE WETLAND CROSSING.
- THE WETLAND BOUNDARIES (I.E., DOWN GRADIENT EDGES OF THE WETLAND REPLICATION AREA) WILL BE MARKED IN THE FIELD.
- PRIOR TO THE START OF EARTH-MOVING ACTIVITIES IN THE REPLICATION AREA, AN EROSION CONTROL BARRIER OF PROPERLY INSTALLED SILTATION FENCE (I.E., THE BOTTOM FEW INCHES OF THE SILTATION FENCE INSTALLED IN A NARROW, TRENCH AND THE TRENCH FILLED WITH SOIL AROUND THE SILTATION FENCE) WILL BE INSTALLED ALONG THE WETLAND BOUNDARIES BETWEEN THE WETLAND AND THE WETLAND REPLICATION AREA. THE WETLAND REPLICATION AREA WILL THEN BE CLEARED AND GRUBBED, WITH THE EXCEPTION OF THE TREES THAT HAVE BEEN MARKED TO BE SAVED.
- THE PROPOSED FINAL GRADE FOR THE REPLICATION AREA SHOULD APPROXIMATE THE ELEVATION OF THE ADJACENT WETLAND AREAS, AS NOTED ON THE SITE PLANS. THE REPLICATION AREA WILL BE EXCAVATED TO A DEPTH OF 12 INCHES BELOW THE PROPOSED FINAL GRADE. THE EXCAVATION AND PLANTING WORK WILL BE CLOSELY SUPERVISED BY A QUALIFIED WETLAND SCIENTIST. MINOR MODIFICATIONS TO THE PROPOSED GRADING MAY BE MADE IN THE FIELD BY THE WETLAND SCIENTIST IN RESPONSE TO OBSERVED SUBSURFACE HYDROLOGIC CONDITIONS. ALL EXCAVATED MATERIAL WILL BE DISPOSED OF AWAY FROM ALL WETLAND RESOURCE AREAS. EIGHT TO TEN BOULDERS (1 TO 2 FOOT DIAMETER) WILL BE PLACED IN TWO (2) PILES, AT SUBGRADE, WITHIN THE REPLICATION AREA TO PROVIDE WILDLIFE SHELTERS. THREE (3) TREE TRUNKS, APPROXIMATELY 15 TO 20 FEET IN LENGTH, WILL BE PLACED WITHIN THE REPLICATION AREA, TO PROVIDE NESTING CAVITIES AND FORAGE OPPORTUNITIES.
- EXISTING TOPSOILS WITHIN THE IMPACT AREA WILL BE EXCAVATED, STOCKPILED AND KEPT MOIST BY WATERING AND/OR COVERING.
- RELOCATED WETLAND TOPSOILS WILL BE SUPPLEMENTED WITH A 1:1 MIXTURE OF HIGH QUALITY, LOAMY TOPSOIL AND LEAF MOLD COMPOST, AS NECESSARY, TO APPROXIMATE 12 INCHES IN THICKNESS THROUGHOUT THE REPLICATION AREA. THE SUBSTRATE WILL BE ROUGHLY GRADED TO PROVIDE AN APPROPRIATE MICROTOPOGRAPHY. A MINIMUM OF 4 INCHES OF LOAMY TOPSOIL WILL BE APPLIED TO THE SIDE-SLOPES OF THE WETLAND REPLICATION AREA. THE SIDE SLOPES SHOULD BE STABILIZED AS NECESSARY TO PREVENT EROSION.
- WILDLIFE ENHANCEMENT MEASURES INCLUDING THREE (3) TREE TRUNKS AND TWO (2) ROCK PILES WILL BE INSTALLED WITHIN EACH REPLICATION AREA. THE TREE TRUNKS WILL CONSIST OF 15 TO 20 FOOT LOGS PLACED ON THE FINISHED SURFACE. THE TREE TRUNKS WILL PROVIDE FOOD, FORAGE AND CAVITY NESTING OPPORTUNITIES. THE ROCK PILES WILL CONSIST OF EIGHT TO TEN BOULDERS EACH (1 TO 2 FOOT DIAMETER) PILED AT SUB-GRADES SO AS TO CREATE CREVICES AND CAVITIES FOR SHELTER AND NESTING.
- AN EROSION CONTROL BARRIER COMPRISING ONLY TOED-IN SILTATION FENCE WILL BE PROPERLY INSTALLED BETWEEN THE COMPLETED REPLICATION AREA AND THE ADJACENT UPLAND SIDESLOPES.
- PLANTING WILL BE DONE ONLY DURING THE BEGINNING (APRIL 15 THROUGH JUNE) OR END (SEPTEMBER 1 TO NOVEMBER 15) OF THE GROWING SEASON. PLANTING IN THE MID-GROWING SEASON IS ONLY ACCEPTABLE IF IRRIGATION IS PROVIDED. THE PLANT SPECIES IDENTIFIED IN THE TABLE BELOW WILL BE PLANTED IN THE REPLICATION AREA EITHER BY TRANSPLANT OR FROM NURSERY STOCK. THE SAPLINGS WILL BE DISTRIBUTED THROUGHOUT THE AREA. THE SHRUBS WILL BE PLANTED RANDOMLY THROUGHOUT THE AREA WITH THE AVERAGE SPACING BETWEEN SHRUBS APPROXIMATELY 5 FEET ON-CENTER. THE WOODY VEGETATION SHOULD NOT BE PLANTED IN ROWS. THE FERNS WILL BE PLANTED BETWEEN THE SHRUBS AND SAPLINGS.
- THE REPLICATION AREA WILL BE SEEDED WITH "NEW ENGLAND WETMIX" AS PER NEW ENGLAND WETLAND PLANTS, INC SPECIFICATIONS OR APPROVED EQUAL TO PROVIDE FOR TEMPORARY EROSION CONTROL AND MOISTURE RETENTION.
- THE SIDE-SLOPES OF THE WETLAND REPLICATION AREA WILL BE SEEDED WITH A GRASS/WILDFLOWER MIXTURE DESIGNED TO PROVIDE PERMANENT COVER. AFTER SEEDING, THE SIDE-SLOPES WILL BE MULCHED WITH A THIN LAYER OF STRAW TO PROVIDE FOR TEMPORARY EROSION CONTROL.
- THE REPLICATION AREAS WILL BE INSPECTED, BY A QUALIFIED WETLAND SCIENTIST, AT THE END OF EACH GROWING SEASON FOR A MINIMUM OF TWO YEARS OR UNTIL SUCH TIME AS THE REQUIRED 75% OF VEGETATIVE COVER WITH WETLAND SPECIES HAS BEEN ESTABLISHED. WRITTEN RESULTS OF THESE INSPECTIONS WILL BE SUBMITTED TO THE CONSERVATION COMMISSION.
- AFTER THE WETLAND REPLICATION AREA HAS BECOME VEGETATIVELY STABILIZED, AND FOLLOWING APPROVAL OF THE ISSUING AUTHORITY, THE SILTATION FENCE AND ALL WOODEN STAKES WILL BE REMOVED AND DISPOSED OF PROPERLY.

SEQUENCE OF CONSTRUCTION:

ALL DRAINAGE STRUCTURES INCLUDING DETENTION PONDS, CROSS CULVERTS, STORM WATER MANHOLES, CATCH BASINS, AND ALL OTHER UNDERGROUND UTILITIES SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO ANY EARTH MOVING. IMMEDIATELY FOLLOWING CATCH BASIN INSTALLATION, HAY BALES SHALL BE PLACED AROUND RIMS AND ALL DISTURBED AREAS SHALL BE HYDROSEEDING, MULCHED OR COVERED WITH ENVIRONMENTAL MATTING AND CHECKED REGULARLY TO PREVENT EROSION FROM TAKING PLACE.



SIGNAGE:

"SENSITIVE WETLAND AREA, STREAM AND WETLAND REPLACEMENT AREA PROTECTED BY THE BELLINGHAM CONSERVATION COMMISSION."

GENERAL NOTES:

PRIOR TO CONSTRUCTION AND INSTALLATION OF THE PROPOSED ALUMINUM ARCH CULVERT AND RETAINING WALLS SEPARATE APPROVALS AND/OR PERMITS SHALL BE OBTAINED FROM THE FOLLOWING: INCLUDING BUT NOT LIMITED TO THE TOWN OF BELLINGHAM CONSERVATION COMMISSION, DEPARTMENT OF PUBLIC WORKS, INSPECTOR OF BUILDINGS, TOWN OF BELLINGHAM PLANNING BOARD AND CONSULTING ENGINEER(S).

WETLAND REPLICATION PLANTING SCHEDULE

TREES	QTY.
AMERICAN ELM ULMUS AMERICANA (AM)	9
RED MAPLE ACER RUBRUM (RM)	9
SHRUBS	
HIGHBUSH BLUEBERRY VACCINIUM CORYMBOSUM (HB)	18
WINTERBERRY ILEX VERTICILLATA (WB)	18

1 PRECAST CONCRETE 3-SIDED BOX CULVERT
SCALE: N.T.S.

TABLE 1.

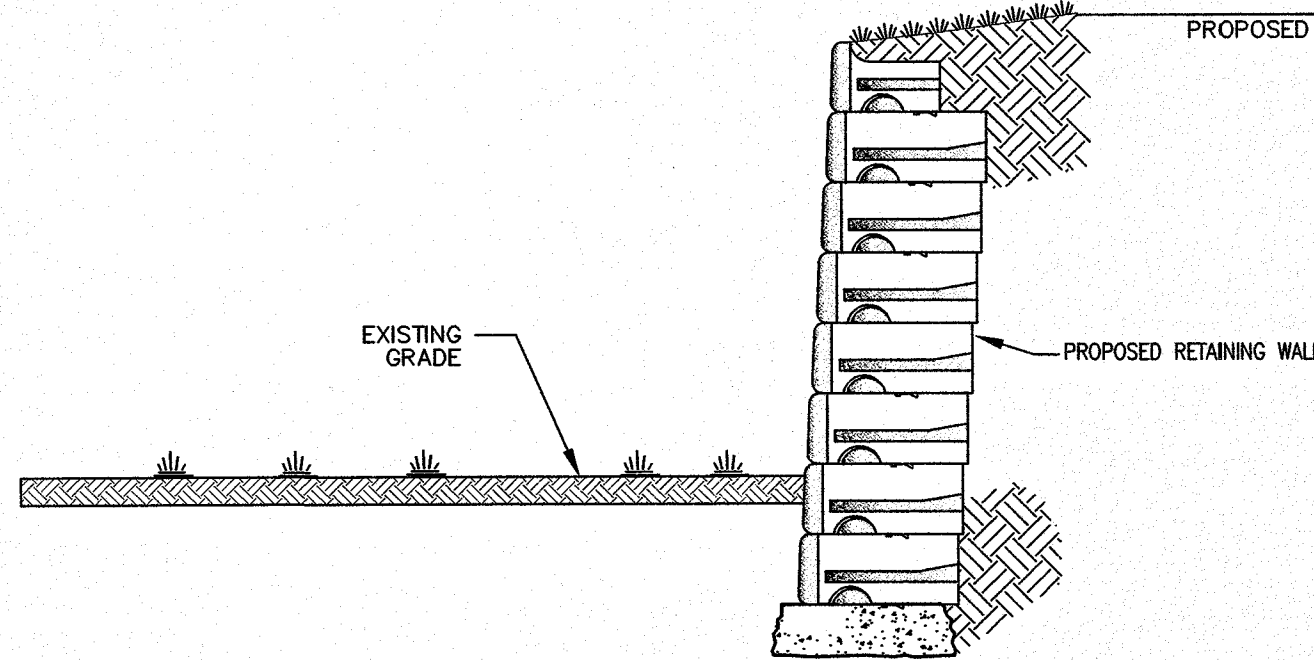
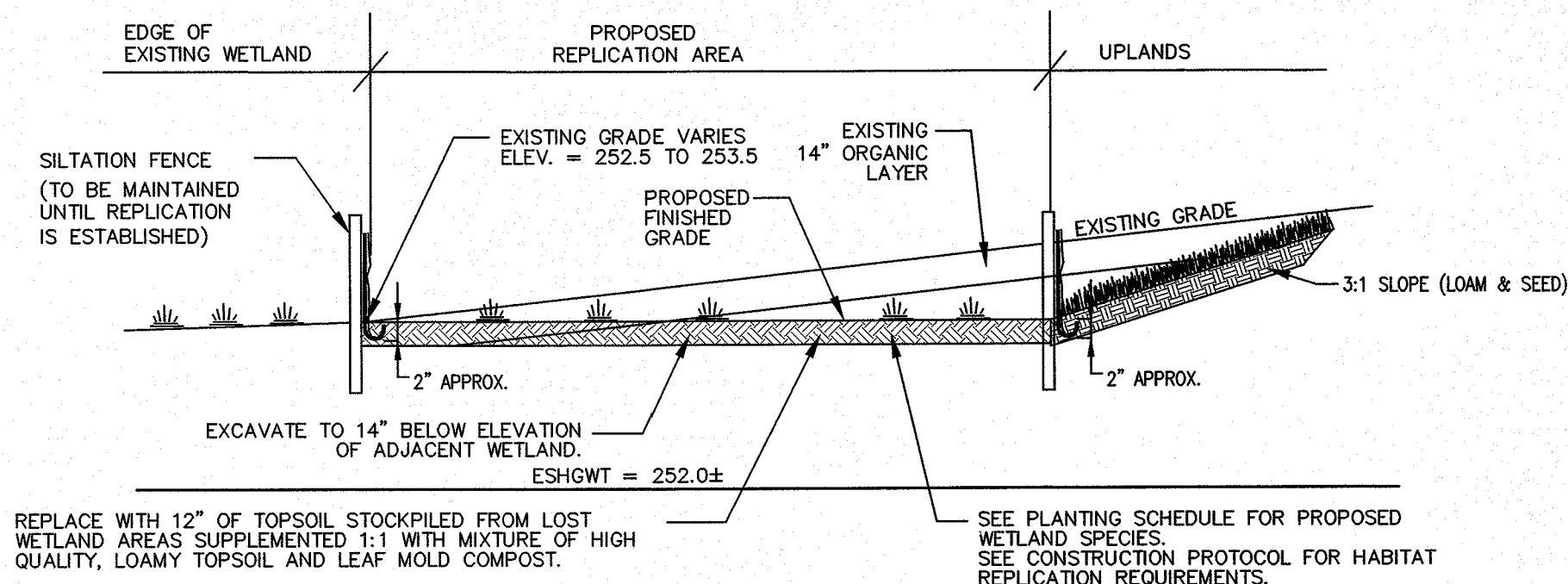
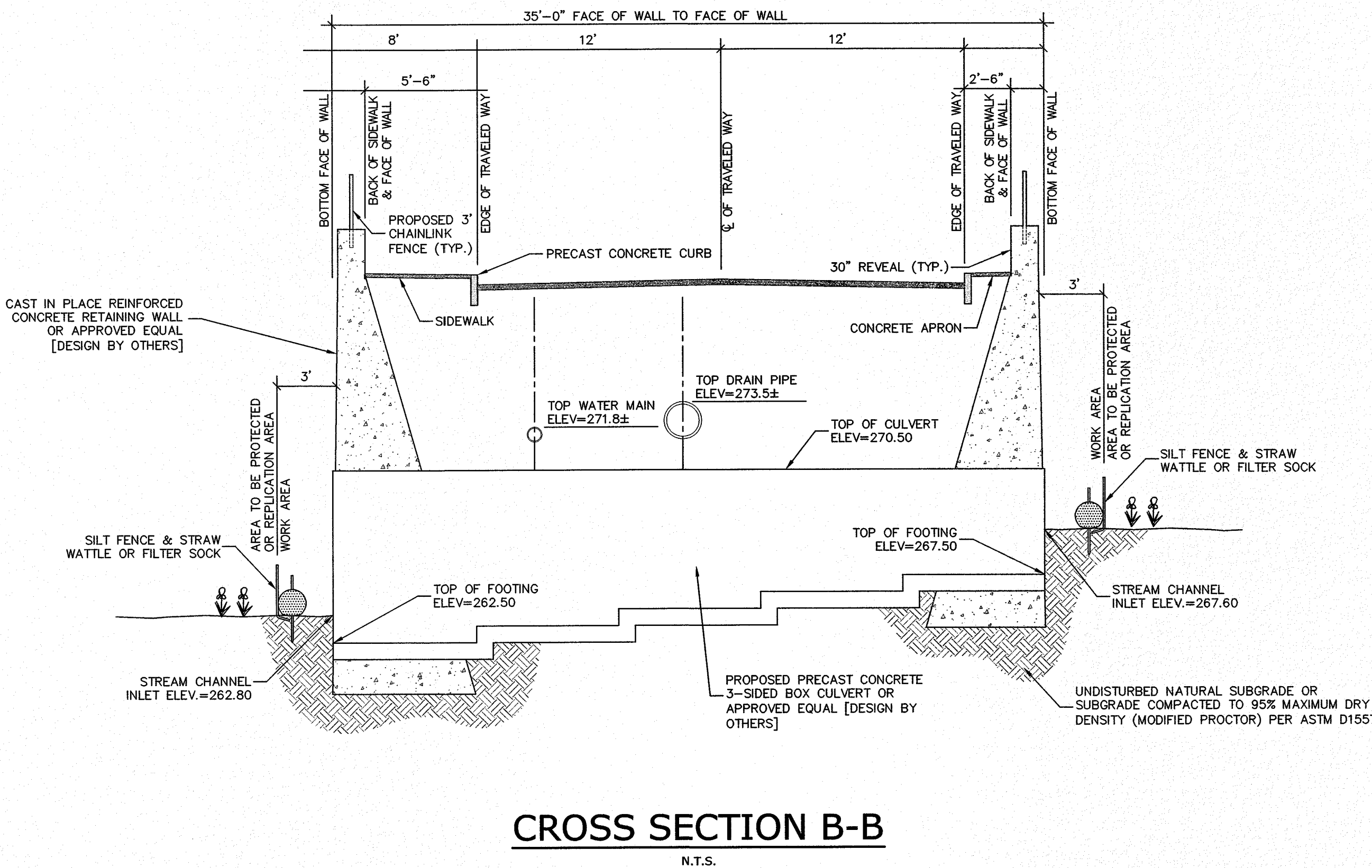
PUBLIC INTERESTS:	VALUE OF AREAS TO BE ALTERED:	VALUE OF REPLICATION AREAS:
PUBLIC AND PRIVATE WATER SUPPLY, GROUNDWATER SUPPLY	YES. RECHARGES GROUNDWATER THROUGH INFILTRATION. SEASONALLY RECHARGES SURFACE WATER THROUGH OVERLAND FLOW OVERLAND FLOW WILL BE MAINTAINED THROUGH CULVERTS.	YES. WILL ALSO RECHARGE GROUNDWATER THROUGH INFILTRATION IN FRIABLE SUBSOIL AND SUBSTRATE.
FLOOD CONTROL AND STORM DAMAGE PREVENTION	YES. SOME STORAGE OF RUNOFF IN SEASONALLY SATURATED SOILS	YES SEASONALLY SATURATED SOILS WILL STORE EQUAL OR GREATER VOLUMES OF RUNOFF.
PREVENTION OF POLLUTION	YES. CONTAMINANTS AND EXCESS NUTRIENTS RETAINED IN, AND DEGRADED BY, MINERAL AND ORGANIC COMPONENTS OF HYDRIC SOILS.	YES. CONTAMINANTS AND EXCESS NUTRIENTS RETAINED IN, AND DEGRADED BY, MINERAL AND ORGANIC COMPONENTS OF HYDRIC SOILS.
FISHERIES	N/A. NO PERENNIAL WATERWAY OR WATERBODY	N/A. NO PERENNIAL WATERWAY OR WATERBODY
WILDLIFE HABITAT	YES. EXISTING VEGETATIVE LAYERS, SOIL STRUCTURE, DEADWOOD AND SURFACE STONES PROVIDE FORAGING AND SHELTER OPPORTUNITIES.	YES. REPLICATED SOIL STRUCTURE, PLANTING, BOULDER PLACEMENT AND TREE SNAGS WILL PROVIDE OPPORTUNITIES FOR WILDLIFE SHELTER AND FORAGE.

TABLE 2.

PERFORMANCE STANDARD:	STANDARDS MET WITHIN REPLICATION AREA:
EQUAL SURFACE AREAS (958 S.F. ALTERED).	YES. 2.2 TIMES GREATER SURFACE AREA (2,120 S.F. REPLICATED)
SIMILAR GROUNDWATER AND SURFACE ELEVATIONS.	YES. SIMILAR ELEVATIONS.
LOCATION RELATIVE TO BANK	YES. SIMILAR PROXIMITY TO STREAM BANK
UNRESTRICTED HYDRAULIC CONNECTION.	YES. UNRESTRICTED CONNECTION TO SAME BORDERING WETLAND
SAME GENERAL LOCATION.	YES. AS CLOSE AS POSSIBLE TO IMPACTED WETLAND
MINIMUM 75% COVER OF NATIVE WETLAND PLANTS WITHIN TWO GROWING SEASONS AND PREVENTION OF SOIL EROSION.	YES. TO BE INSURED BY FOLLOWING CONSTRUCTION AND PLANTING PROTOCOL COMBINED WITH ANNUAL MONITORING AND RE-PLANTING AND/OR MODIFICATION AS NECESSARY. PLANTING DESIGNED TO REPLICATE LOST AREA(S) IN-KIND. EROSION PREVENTED WITH SILTATION BARRIERS, 3:1 SIDE SLOPES AND MULCH.

TABLE 3. STREAM CROSSING STANDARDS

PERFORMANCE STANDARD:	STANDARDS MET WITHIN REPLICATION AREA:
1. TYPE OF CROSSING • GENERAL: SPANS (BRIDGES, 3-SIDED BOX CULVERTS, OPEN BOTTOM CULVERTS OR ARCHES) ARE STRONGLY PREFERRED. • OPTIMUM: USE A BRIDGE.	A 3-SIDED BOX CULVERT THAT SPANS THE EXISTING STREAM HAS BEEN PROPOSED.
2. EMBEDMENT • ALL CULVERTS SHOULD BE EMBEDDED (SUNK INTO STREAM) A MINIMUM OF 2 FEET, AND ROUND PIPE CULVERTS AT LEAST 25% • IF PIPE CULVERT CANNOT BE EMBEDDED THIS DEEP, THEN THEY SHOULD NOT BE USED. • WHEN EMBEDMENT MATERIAL INCLUDED ELEMENTS > 15 INCHES IN DIAMETER, EMBEDMENT DEPTHS SHOULD BE AT LEAST TWICE THE DBA (PARTICLE WIDTH LARGER THAN 84% OF PARTICLES) OF THE EMBEDMENT MATERIAL.	A 3-SIDED BOX CULVERT THAT SPANS THE EXISTING STREAM HAS BEEN PROPOSED. THERE IS NO EMBEDDING THAT WILL BE INCORPORATED INTO THIS STREAM CROSSING.
3. CROSSING SPAN • GENERAL: SPANS CHANNEL WIDTH (A MINIMUM OF 1.2 TIMES THE BANKFULL WIDTH OF THE STREAM. • OPTIMUM: SPANS THE STREAMBED AND BANKS (AT LEAST 1.2 TIMES BANKFULL WIDTH) WITH SUFFICIENT HEADROOM TO PROVIDE DRY PASSAGE FOR WILDLIFE.	THE EXISTING BANKFULL WIDTH OF THE STREAM IS APPROXIMATELY 2 FEET. THE PROPOSED SPAN OF THE 3-SIDED BOX CULVERT IS 20 FEET WHICH IS 10 TIMES THE WIDTH OF THE EXISTING BANKFULL STREAM.
4. OPENNESS • GENERAL: OPENNESS RATIO (CROSS SECTIONAL AREA/CROSSING LENGTH) OF AT LEAST 0.82 FEET (0.25 METERS). THE CROSSING SHOULD BE WIDE AND HIGH RELATIVE TO ITS LENGTH. • OPTIMUM: OPENNESS RATIO OF AT LEAST 1.64 FEET (0.5 METERS) AND MINIMUM HEIGHT OF 6 FEET. IF CONDITION SIGNIFICANTLY REDUCE WILDLIFE PASSAGE NEAR A CROSSING (E.G. STEEP EMBANKMENTS, HIGH TRAFFIC VOLUMES, AND PHYSICAL BARRIERS), MAINTAIN A MINIMUM HEIGHT OF 8 FEET (2.4 METERS) AND OPENNESS RATIO OF 2.46 FEET (0.75 METERS).	X-SEC CULVERT AREA PRE-EMBED - EMBEDDED AREA CULVERT LENGTH $49.4 \text{ S.F.} - 18.6 \text{ S.F.} = 30.8 \text{ S.F.} = 0.88 \text{ FEET (UPSTREAM END)}$ $140.0 \text{ S.F.} - 12.3 \text{ S.F.} = 127.7 \text{ S.F.} = 3.65 \text{ FEET (DOWNSTREAM END)}$ THE PROPOSED 3-SIDED BOX CULVERT MEETS STREAM CROSSING STANDARDS. DUE TO THE SLOPE ON WHICH THE STREAM CROSSING IS LOCATED THE APPROXIMATE HEIGHT ON THE UPSTREAM END IS 2 FEET AND ON THE DOWNSTREAM END IS 7 FEET. THE AVERAGE OPENNESS RATIO FOR THE CULVERT IS 2.26 FEET.
5. CROSSING SPAN • NATURAL BOTTOM SUBSTRATE SHOULD BE USED WITHIN THE CROSSING AND IT SHOULD MATCH THE UPSTREAM AND DOWNSTREAM SUBSTRATES. THE SUBSTRATE AND DESIGN SHOULD RESIST DISPLACEMENT DURING FLOWS AND MAINTAIN APPROPRIATE BOTTOM DURING NORMAL FLOWS.	A 3-SIDED BOX CULVERT THAT SPANS THE EXISTING STREAM HAS BEEN PROPOSED. THERE IS NO EMBEDDING THAT WILL BE INCORPORATED INTO THIS STREAM CROSSING AND THE NATURAL STREAM BED WILL BE UTILIZED.
6. WATER DEPTH AND VELOCITY • WATER DEPTHS AND VELOCITIES ARE COMPARABLE TO THOSE FOUND IN THE NATURAL CHANNEL AT A VARIETY OF FLOWS.	A 3-SIDED BOX CULVERT THAT SPANS THE EXISTING STREAM HAS BEEN PROPOSED AND THE NATURAL STREAM BED WILL BE UTILIZED. WATER DEPTH AND VELOCITY ARE COMPARABLE TO UPSTREAM AND DOWNSTREAM CONDITIONS.



2 TYPICAL WETLAND REPLICATION DETAILS
SCALE: N.T.S.



Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

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Uxbridge, Massachusetts 01569
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500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:13 am, Jan 04, 2019

BEING A MAJORITY

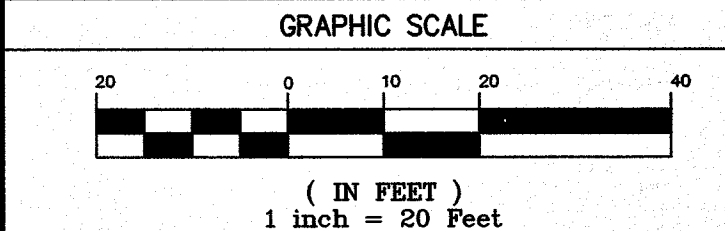
DATE:

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

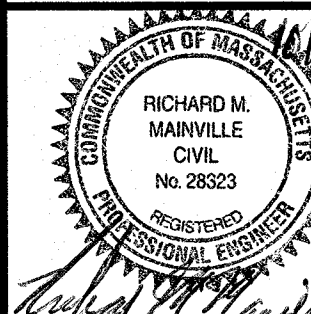
SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS		
NO.	DATE	DESCRIPTION
1	9/17/18	PER REVIEW COMMENTS.
2	10/02/18	PER REVIEW COMMENTS.

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DRAWN BY	TRB, R/J
CHECKED BY	RMM, BJA
DATE	MAY 15, 2018
PROJECT NO.	2017-395



SHEET TITLE
WETLANDS
REPLICATION PLAN
SHEET 2 OF 2



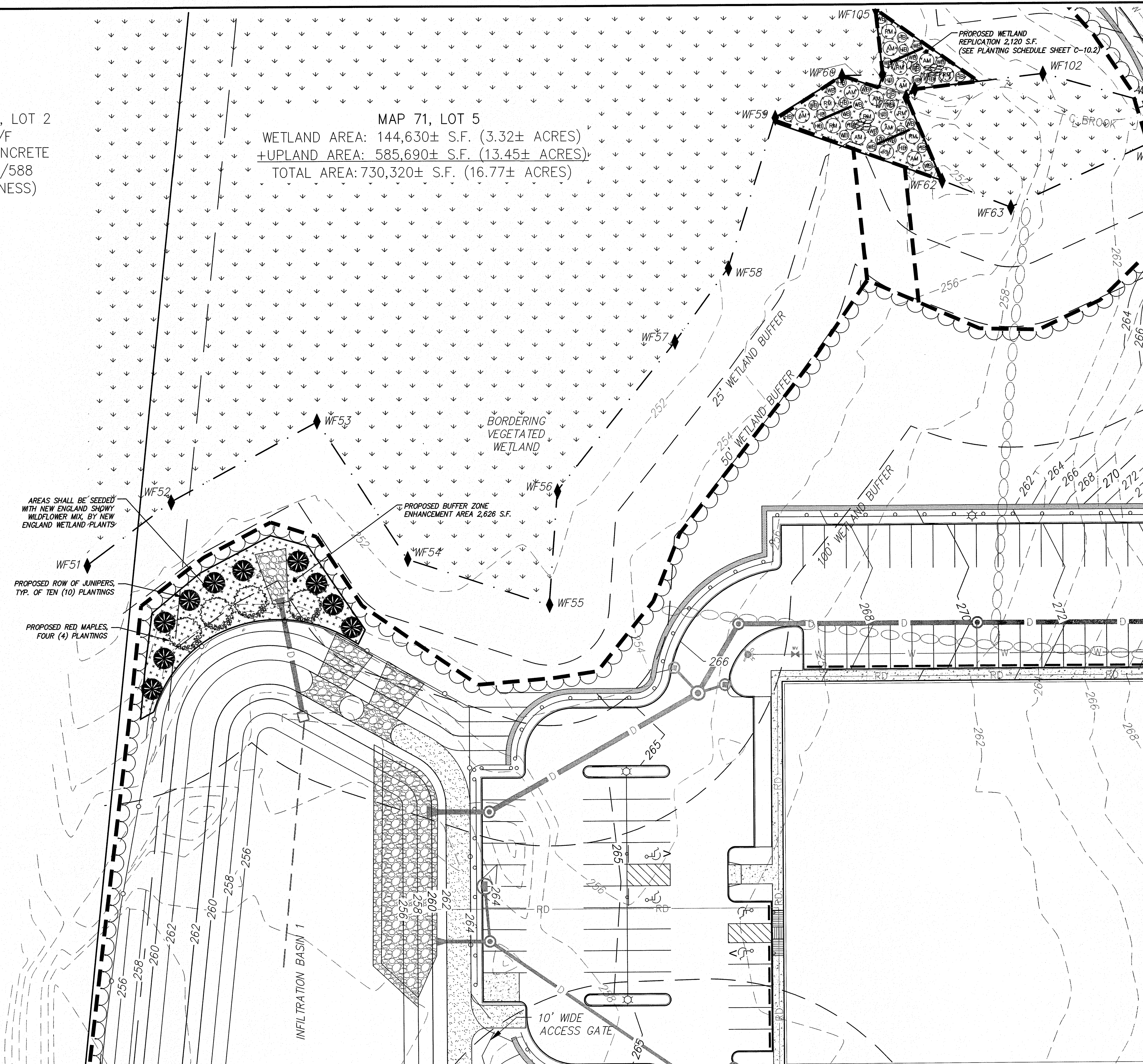
DRAWING NO.

C-10.2

PLAN NO. L-5506

MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
+UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)



Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
Uxbridge, Massachusetts 01569
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500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

BELLINGHAM PLANNING BOARD

APPROVED

By Bellingham Planning Board at 10:14 am, Jan 04, 2019

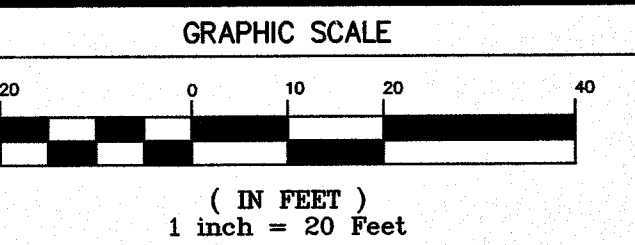
BEING A MAJORITY

DATE:

PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

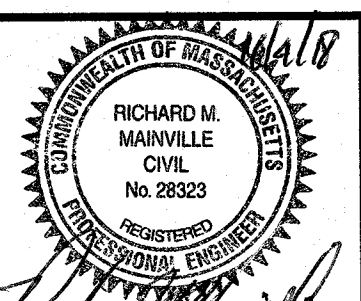
REVISIONS		
NO.	DATE	DESCRIPTION
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2	10/02/18	PER REVIEW COMMENTS.
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DRAWN BY TRB, RJF		
CHECKED BY RMM, BJA		
DATE MAY 15, 2018		
PROJECT NO. 2017-395		



SHEET TITLE

**BUFFER ZONE
ENHANCEMENT PLAN**

SHEET 1 OF 1



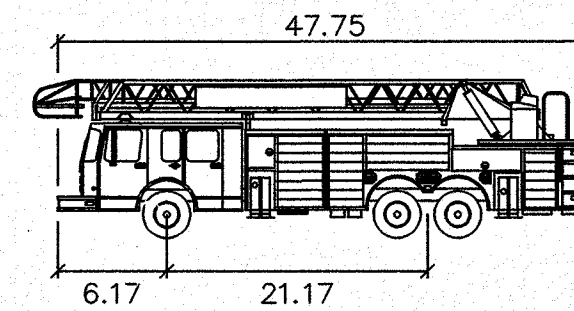
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C-10.3

PLAN NO. L-5506

F:\ACAD\2017 PROJECTS\2017-395\DWG\2017-395_SP-R2.DWG 10-04-18 4:11:14 PM - LAYOUT C-11.2

MAP 67, BLOCK 1, LOT 4
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)



ASE
Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning
P.O. Box 312, 104 Mendon Street
Uxbridge, Massachusetts 01569
P: 508-278-3897 F: 508-278-2289
500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

- NOTES:**
1. FIRE TRUCK DIMENSIONS, TURNING RADII AND SPECIFICATIONS PROVIDED BY THE TOWN OF BELLINGHAM.
 2. AUTOTURN SOFTWARE WAS UTILIZED TO PROVIDE PATH ANALYSIS AND TURN SIMULATION.

APPROVED
By Bellingham Planning Board at 10:14 am, Jan 04, 2019

PROJECT:
PROPOSED HINDU TEMPLE
866 SOUTH MAIN STREET
BELLINGHAM, MA

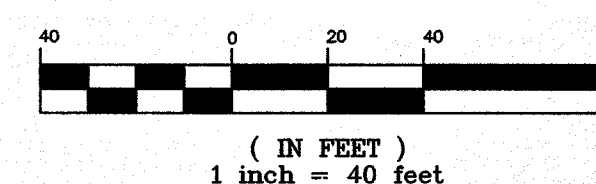
APPLICANT:
SRI SHIVA TEMPLE, INC.
15 NORTH MAIN STREET
BELLINGHAM, MA 02019

REVISIONS

NO.	DATE	DESCRIPTION
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2	10/02/18	PER REVIEW COMMENTS.

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DRAWN BY	TRB, RJF
CHECKED BY	RMM, BJA
DATE	MAY 15, 2018
PROJECT NO.	2017-395

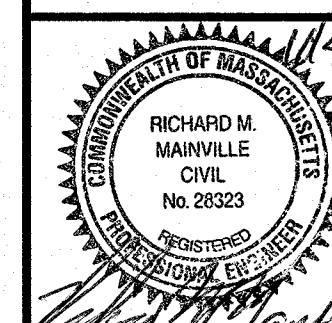
GRAPHIC SCALE



SHEET TITLE

**FIRE ACCESS
EXHIBIT PLAN**

SHEET 2 OF 2



DRAWING NO.

C-11.2

PLAN NO. L-5506

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MAP 67, BLOCK 1, LOT 3
N/F PETER G. DAIGLE
34946/359
(RESIDENTIAL)

MAP 67, BLOCK 1, LOT 2
N/F
G&P DAIGLE REALTY TRUST
5607/138
(BUSINESS)

MAP 71, LOT 9
N/F
MICHAEL J. LUISE
22981/272
(RESIDENTIAL)

AGRICULTURAL
BUSINESS-1

MAP 71, LOT 5
WETLAND AREA: 144,630± S.F. (3.32± ACRES)
+UPLAND AREA: 585,690± S.F. (13.45± ACRES)
TOTAL AREA: 730,320± S.F. (16.77± ACRES)

MAP 66, LOT 2
N/F
DMJ CONCRETE
6709/588
(BUSINESS)

MATCHLINE SHEET 1