SITE PLAN FOR STOREY AVENUE MARKETPLACE SHOPS NEWBURYPORT, MA NOVEMBER 3, 2016

GOVERNMENT/UTILITY CONTACTS

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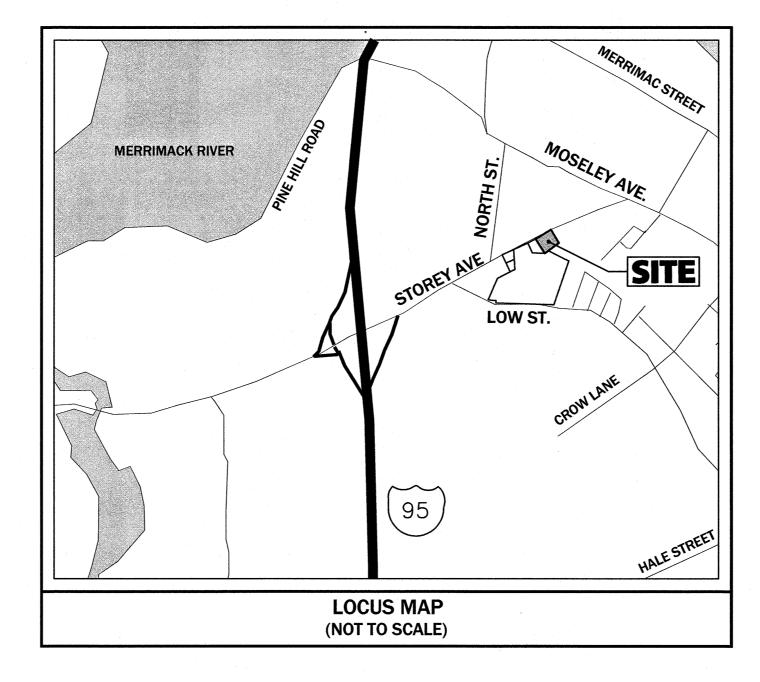
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PREPARED BY:

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80 MONTVALE AVENUE STONEHAM, MA 02180 PHONE: 781-279-0180 FAX: 781-279-0173

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ECHO BRIDGE OFFICE PARK 381 ELLIOT STREET, #100L NEWTON, MA 02464-1130 PHONE: 617-965-4570 FAX: 617-965-4577

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NOTICE OF INTENT

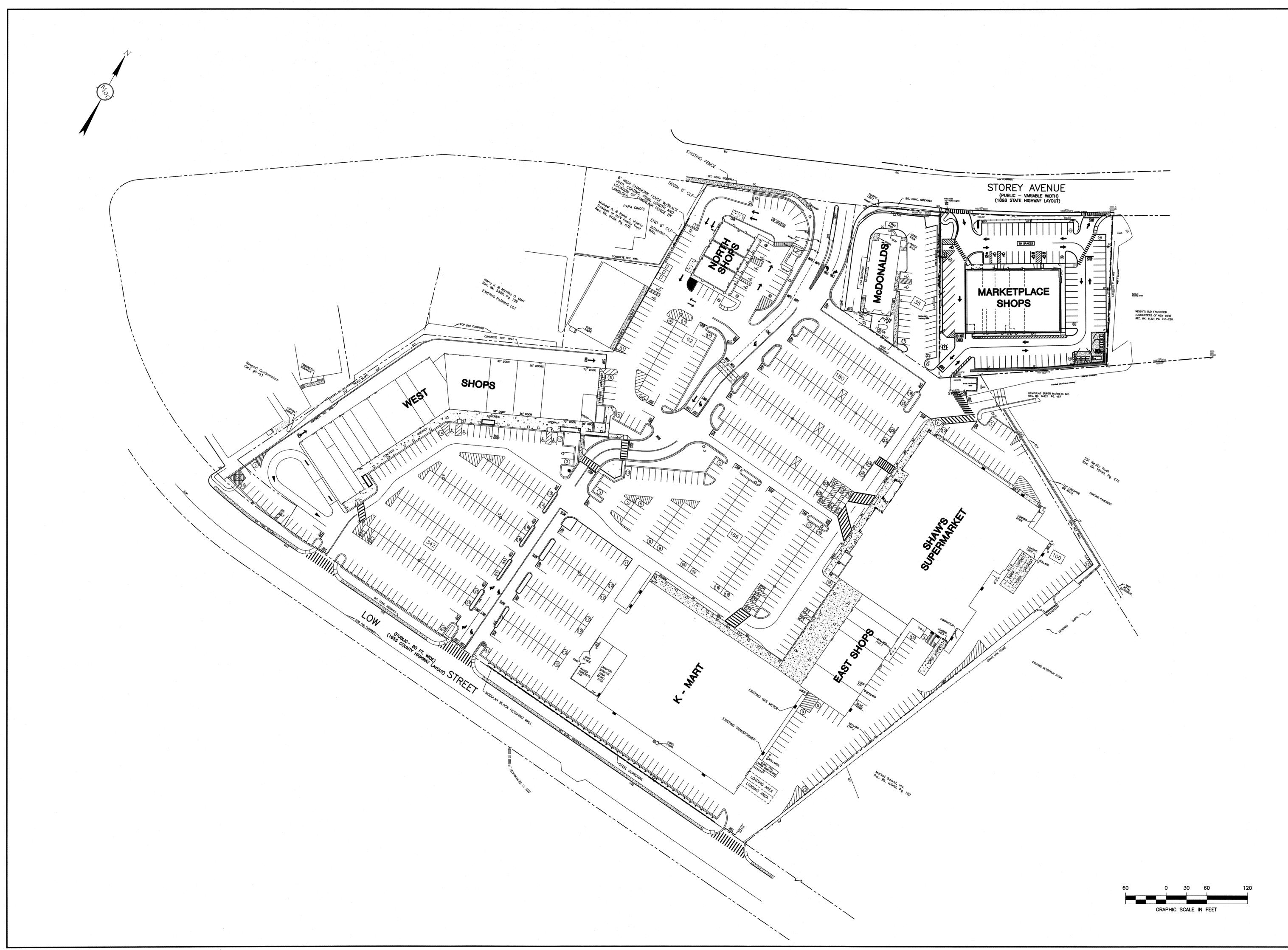
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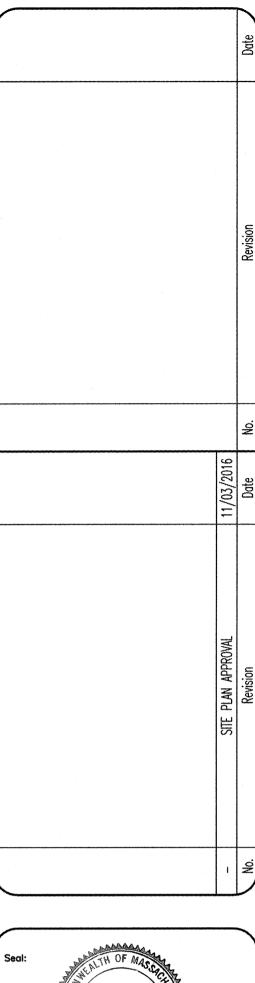
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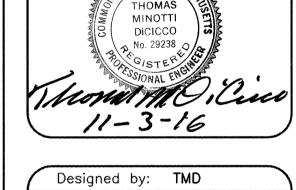
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Prepared for:

PLAZA REALTY

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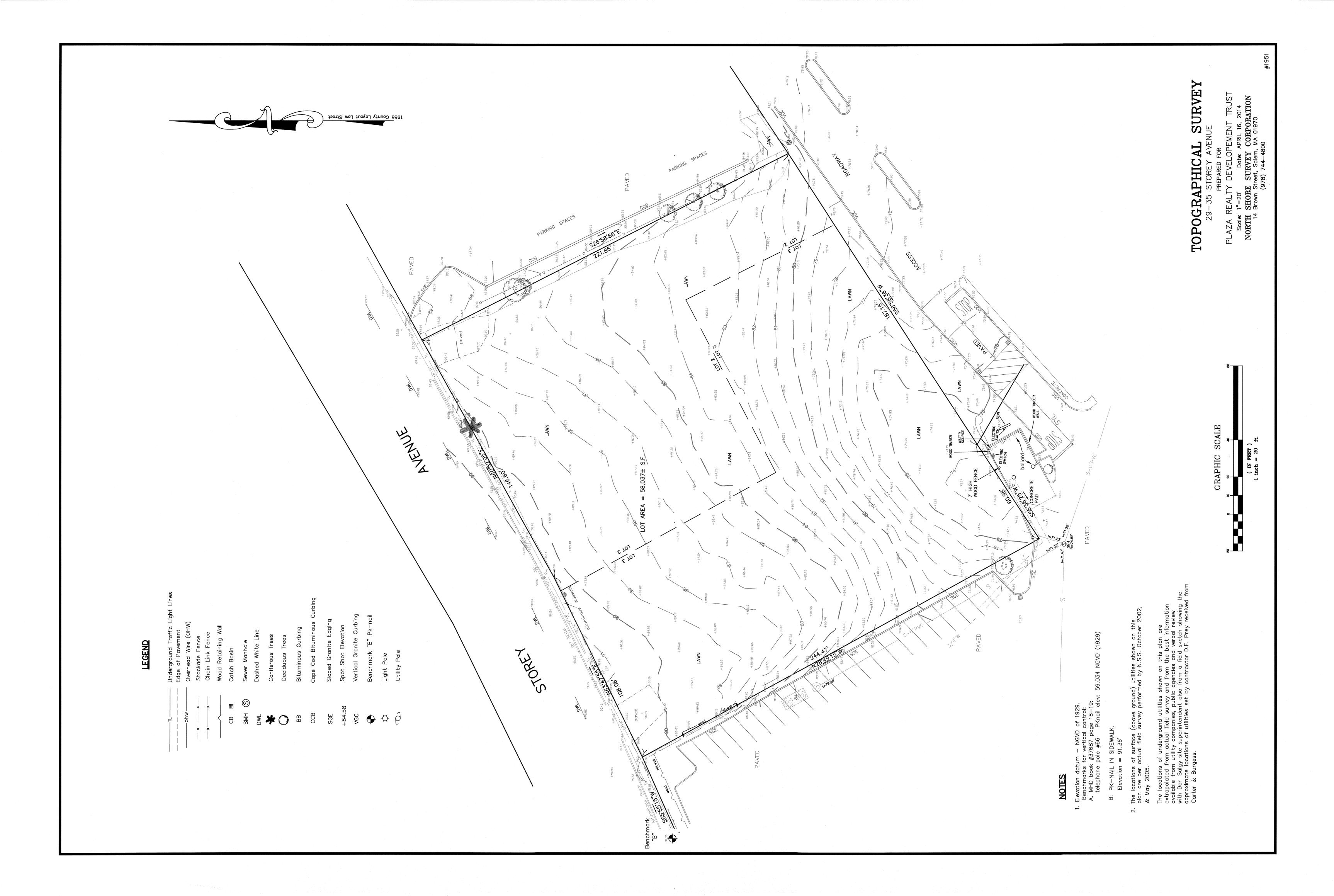
MARKETPLACE SHOPS NEWBURYPORT, MA

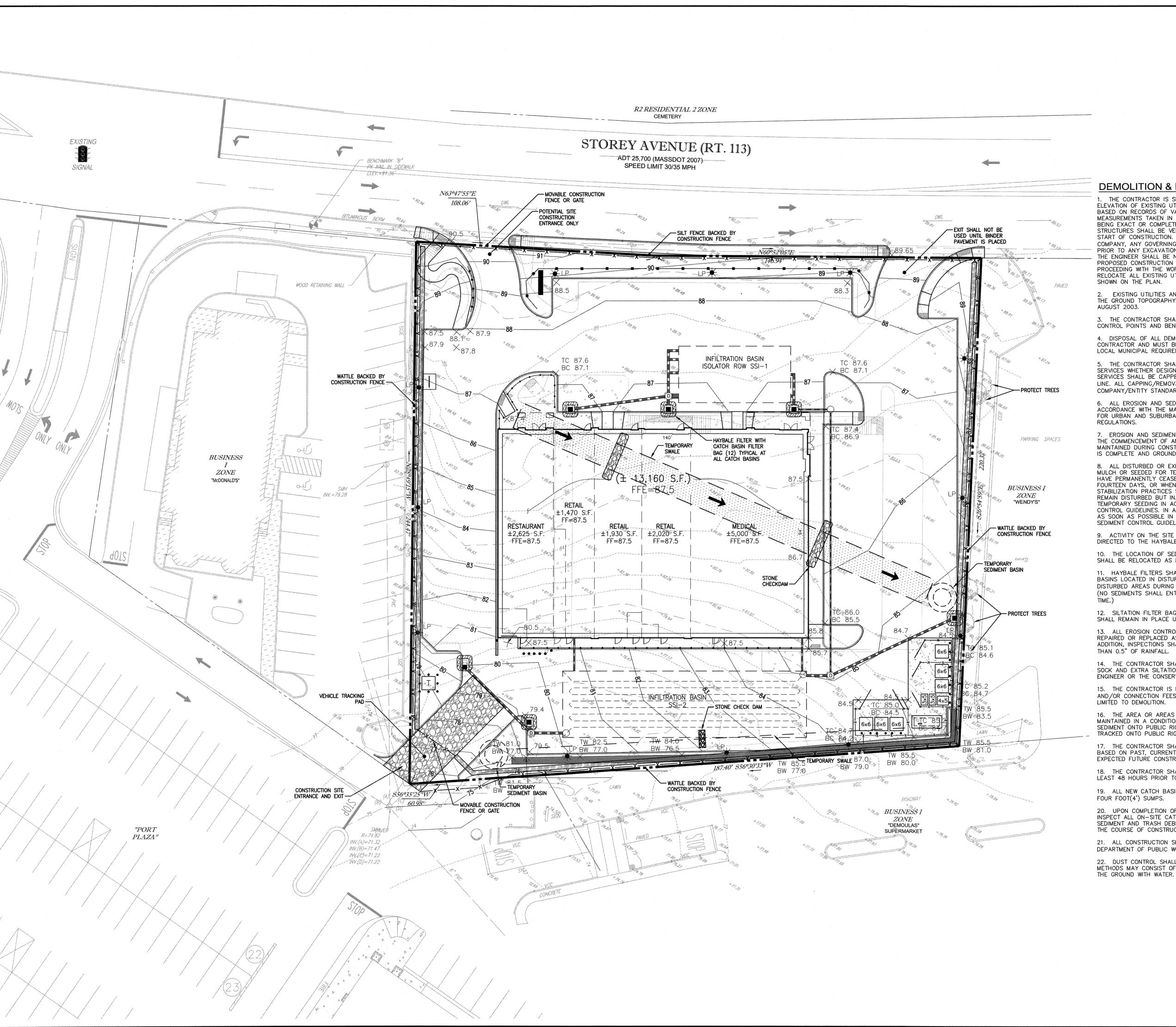
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OVERALL SITE PLAN

Drawing No.:

Project No.: 15099







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 "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION 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

EXISTING UTILITIES AND TOPOGRAPHY SHOWN HEREON IS THE RESULT OF AN ON THE GROUND TOPOGRAPHY SURVEY PERFORMED BY NORTH SHORE SURVEY CORP.

4. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND

5. THE CONTRACTOR SHALL PROTECT AND/OR CAP OFF ALL EXISTING ON-SITE UTILITY SERVICES WHETHER DESIGNATED ON THESE DRAWINGS OR DISCOVERED IN THE FIELD. SERVICES SHALL BE CAPPED OFF WHERE SAME ENTER THE PERIMETER OF THE PROPERTY LINE. ALL CAPPING/REMOVAL SHALL BE IN ACCORDANCE WITH THE APPROPRIATE UTILITY

6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, DATED MARCH 1997, AND ALL LOCAL MUNICIPAL

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.

HAVE PERMANENTLY CEASED OR HAVE TEMPORARILY BEEN SUSPENDED FOR MORE THAN FOURTEEN DAYS, OR WHEN FINAL GRADES ARE REACHED IN ANY PORTION OF THE SITE, STABILIZATION PRACTICES SHALL BE IMPLEMENTED WITHIN THREE DAYS. AREAS WHICH REMAIN DISTURBED BUT INACTIVE FOR AT LEAST THIRTY DAYS SHALL RECEIVE TEMPORARY SEEDING IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES. IN ALL CASES, STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES.

9. ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO THE HAYBALE PROTECTED BASINS.

SHALL BE RELOCATED AS REQUIRED AS CONSTRUCTION PROGRESSES.

SHALL REMAIN IN PLACE UNTIL BINDER AND LANDSCAPE IS COMPLETE.

14. THE CONTRACTOR SHALL KEEP ON-SITE AT ALL TIMES ADDITIONAL HAYBALES, SILT

15. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT

16. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR

17. THE CONTRACTOR SHALL ANTICIPATE TO MODIFY EROSION CONTROL MEASURES BASED ON PAST, CURRENT AND FORECASTED WEATHER CONDITIONS, SEASON AND

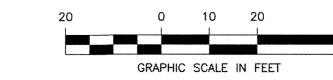
18. THE CONTRACTOR SHALL NOTIFY THE CITY BUILDING INSPECTION DEPARTMENT AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF SITE WORK CONSTRUCTION.

19. ALL NEW CATCH BASINS ON-SITE SHALL BE EQUIPPED WITH GAS/OIL HOODS AND

SEDIMENT AND TRASH DEBRIS THAT HAS ACCUMULATED WITHIN EACH STRUCTURE DURING THE COURSE OF CONSTRUCTION.

DEPARTMENT OF PUBLIC WORK'S SPECIFICATIONS.

22. DUST CONTROL SHALL BE USED DURING CONSTRUCTION OPERATIONS. DUST CONTROL METHODS MAY CONSIST OF GRADING FINE SOILS ON CALM DAYS ONLY OR DAMPENING





3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.

LOCAL MUNICIPAL REQUIREMENTS.

COMPANY/ENTITY STANDARDS.

7. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO

8. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER WHERE CONSTRUCTION ACTIVITIES

10. THE LOCATION OF SEDIMENTATION TRAPPING FEATURES ARE APPROXIMATE ONLY AND

11. HAYBALE FILTERS SHALL BE CONSTRUCTED AT ALL EXISTING AND PROPOSED CATCH BASINS LOCATED IN DISTURBED AREAS & SUBJECT TO STORMWATER RUN-OFF FROM DISTURBED AREAS DURING CONSTRUCTION, OR AS DIRECTED BY THE OWNER/ENGINEER. (NO SEDIMENTS SHALL ENTER THE ON-SITE OR OFF-SITE DRAINAGE SYSTEMS AT ANY

12. SILTATION FILTER BAGS SHALL BE INSTALLED INSIDE CATCH BASINS. THE SILT BAGS

13. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTIONS SHALL TAKE PLACE AFTER EACH RAINFALL EVENT OF GREATER

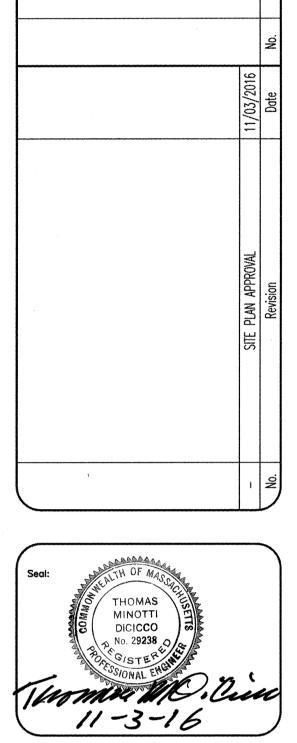
SOCK AND EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE CONSERVATION COMMISSION TO MITIGATE ANY EMERGENCY SITUATION.

TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

EXPECTED FUTURE CONSTRUCTION ACTIVITIES.

20. UPON COMPLETION OF ALL SITE—WORK CONSTRUCTION, SITE CONTRACTOR SHALL INSPECT ALL ON—SITE CATCH BASINS, DRAINAGE SWALES, ETC. AND REMOVE ALL

21. ALL CONSTRUCTION SHALL MEET OR EXCEED THE CITY OF NEWBURYPORT



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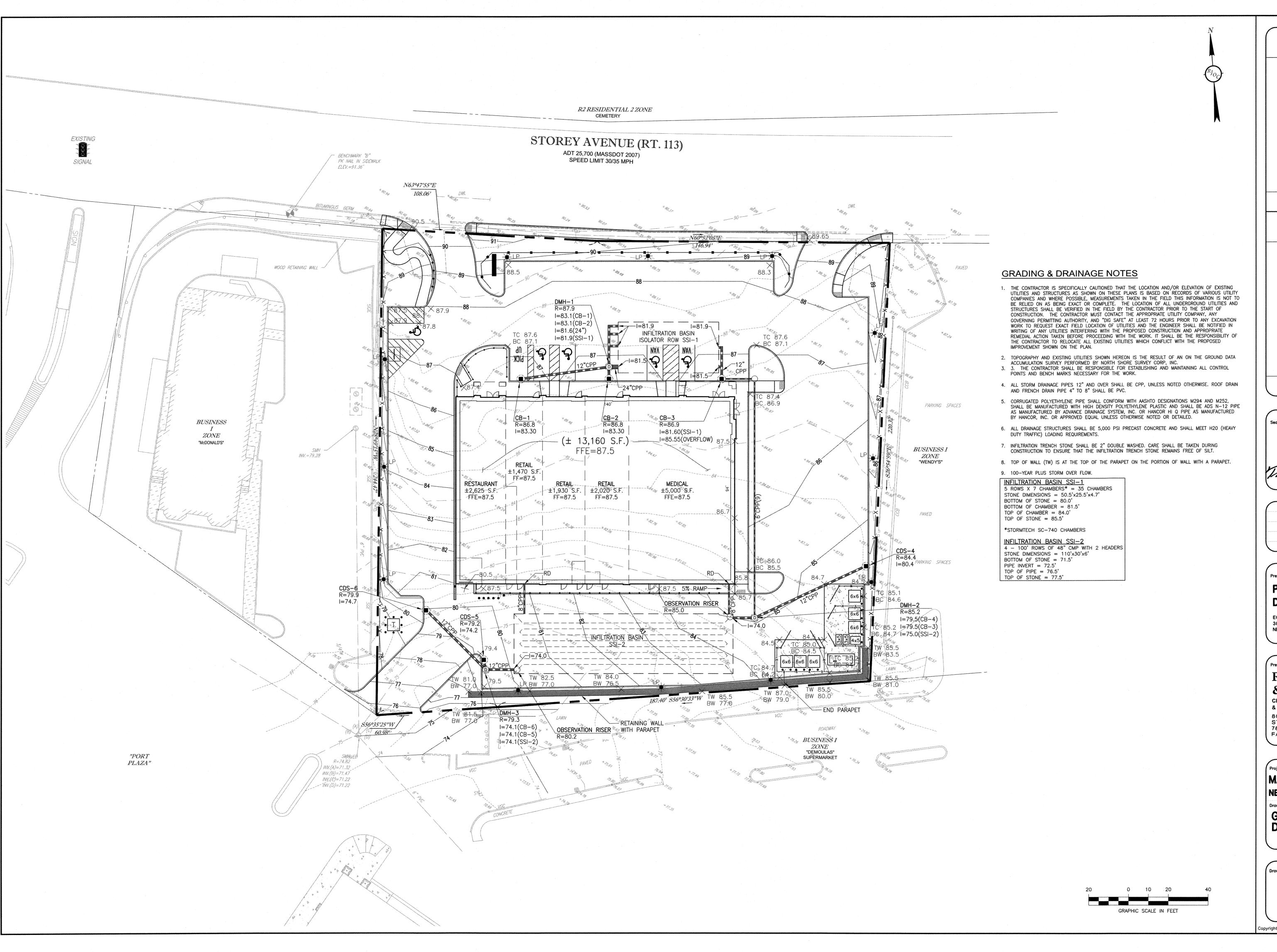
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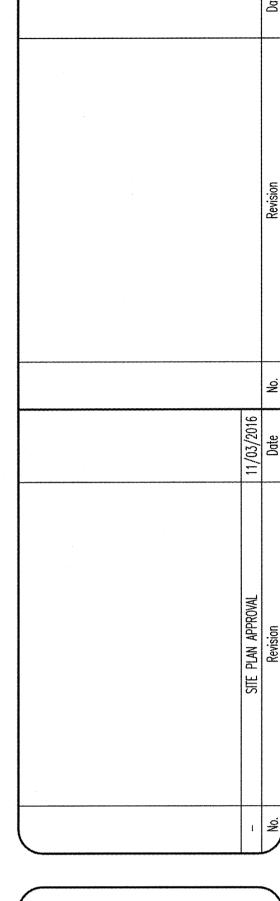
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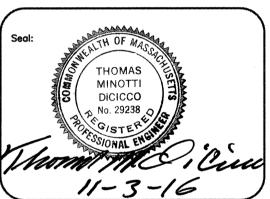
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MARKETPLACE SHOPS NEWBURYPORT, MA

EROSION CONTROL PLAN







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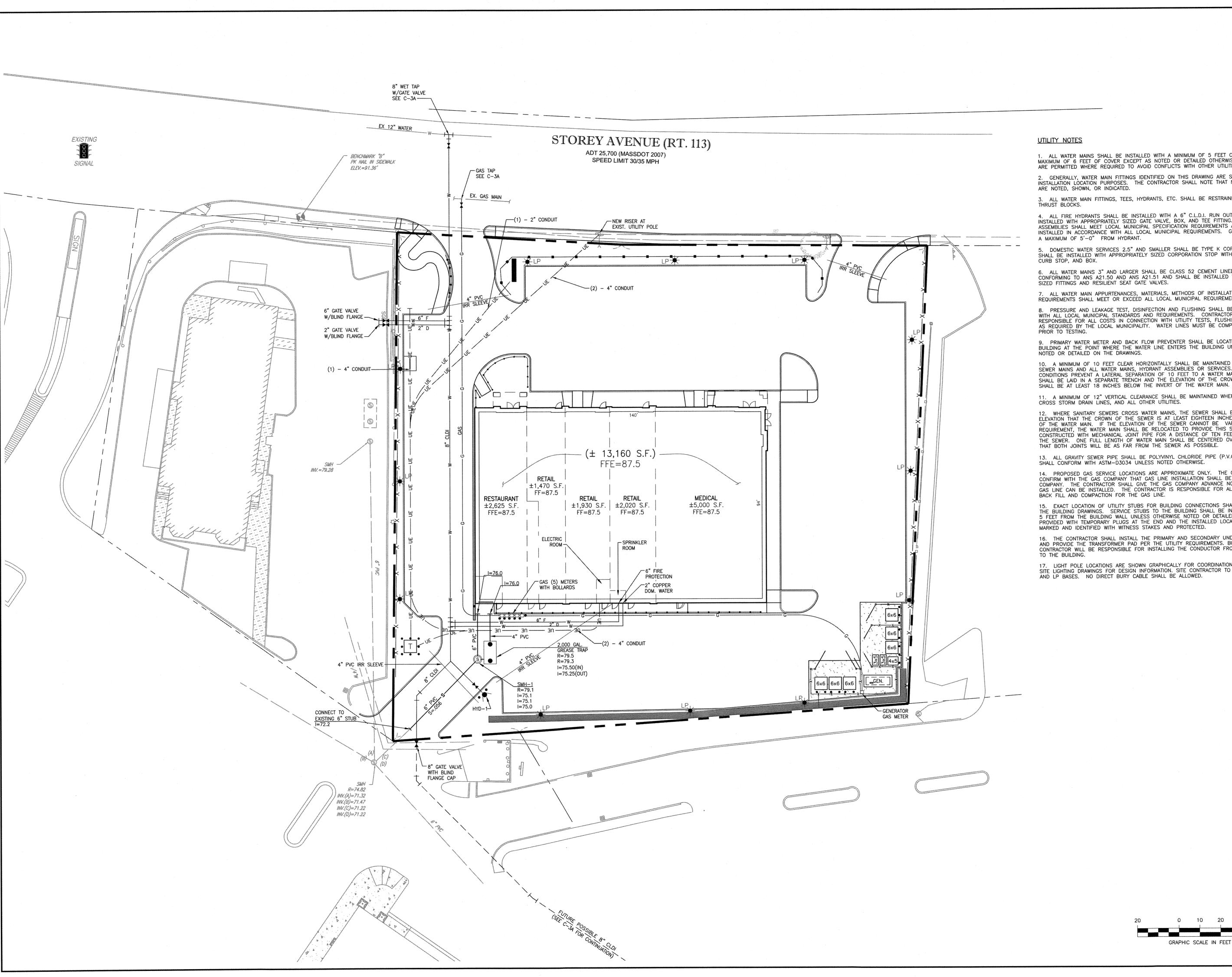
MARKETPLACE SHOPS NEWBURYPORT, MA

GRADING AND DRAINAGE PLAN

DRAINAGE PLAN

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15099



1. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER AND A MAXIMUM OF 6 FEET OF COVER EXCEPT AS NOTED OR DETAILED OTHERWISE. GREATER DEPTHS ARE PERMITTED WHERE REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES.

2. GENERALLY, WATER MAIN FITTINGS IDENTIFIED ON THIS DRAWING ARE SHOWN FOR INSTALLATION LOCATION PURPOSES. THE CONTRACTOR SHALL NOTE THAT NOT ALL FITTINGS

3. ALL WATER MAIN FITTINGS, TEES, HYDRANTS, ETC. SHALL BE RESTRAINED WITH CONCRETE THRUST BLOCKS.

4. ALL FIRE HYDRANTS SHALL BE INSTALLED WITH A 6" C.L.D.I. RUN OUT AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED GATE VALVE, BOX, AND TEE FITTING. ALL HYDRANT ASSEMBLIES SHALL MEET LOCAL MUNICIPAL SPECIFICATION REQUIREMENTS AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL MUNICIPAL REQUIREMENTS. GATE VALVE SHALL BE

5. DOMESTIC WATER SERVICES 2.5" AND SMALLER SHALL BE TYPE K COPPER TUBING AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED CORPORATION STOP WITH APPROVED SADDLE,

6. ALL WATER MAINS 3" AND LARGER SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON CONFORMING TO ANS A21.50 AND ANS A21.51 AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED FITTINGS AND RESILIENT SEAT GATE VALVES.

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

8. 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 CONNECTION WITH UTILITY TESTS, FLUSHING AND INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY. WATER LINES MUST BE COMPLETED INTO BUILDING

9. PRIMARY WATER METER AND BACK FLOW PREVENTER SHALL BE LOCATED INSIDE THE BUILDING AT THE POINT WHERE THE WATER LINE ENTERS THE BUILDING UNLESS OTHERWISE

10. A MINIMUM OF 10 FEET CLEAR HORIZONTALLY SHALL BE MAINTAINED BETWEEN SANITARY SEWER MAINS AND ALL WATER MAINS, HYDRANT ASSEMBLIES OR SERVICES. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER MAIN, 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.

11. A MINIMUM OF 12" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER MAINS CROSS STORM DRAIN LINES, AND ALL OTHER UTILITIES.

12. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST EIGHTEEN INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION AND 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.

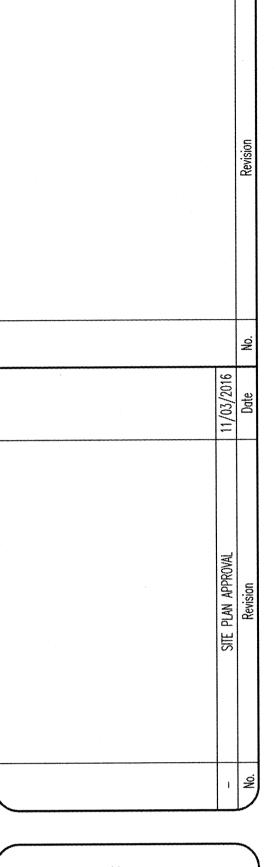
13. ALL GRAVITY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PIPE (P.V.C.), S.D.R. 35 AND SHALL CONFORM WITH ASTM-D3034 UNLESS NOTED OTHERWISE.

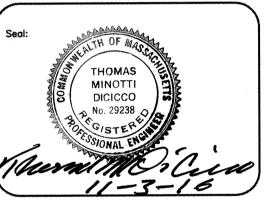
14. PROPOSED GAS SERVICE LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM WITH THE GAS COMPANY THAT GAS LINE INSTALLATION SHALL BE BY THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL GIVE THE GAS COMPANY ADVANCE NOTICE OF WHEN THE GAS LINE CAN BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND

15. EXACT LOCATION OF UTILITY STUBS FOR BUILDING CONNECTIONS SHALL BE VERIFIED WITH THE BUILDING DRAWINGS. SERVICE STUBS TO THE BUILDING SHALL BE INSTALLED TO A POINT 5 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED, SHALL BE PROVIDED WITH TEMPORARY PLUIS AT THE END AND THE INSTALLED LOCATIONS SHALL BE

16. THE CONTRACTOR SHALL INSTALL THE PRIMARY AND SECONDARY UNDERGROUND CONDUITS AND PROVIDE THE TRANSFORMER PAD PER THE UTILITY REQUIREMENTS. BUILDING ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THE CONDUCTOR FROM THE TRANSFORMER

17. LIGHT POLE LOCATIONS ARE SHOWN GRAPHICALLY FOR COORDINATION PURPOSES. SEE SITE LIGHTING DRAWINGS FOR DESIGN INFORMATION. SITE CONTRACTOR TO INSTALL CONDUITS AND LP BASES. NO DIRECT BURY CABLE SHALL BE ALLOWED.





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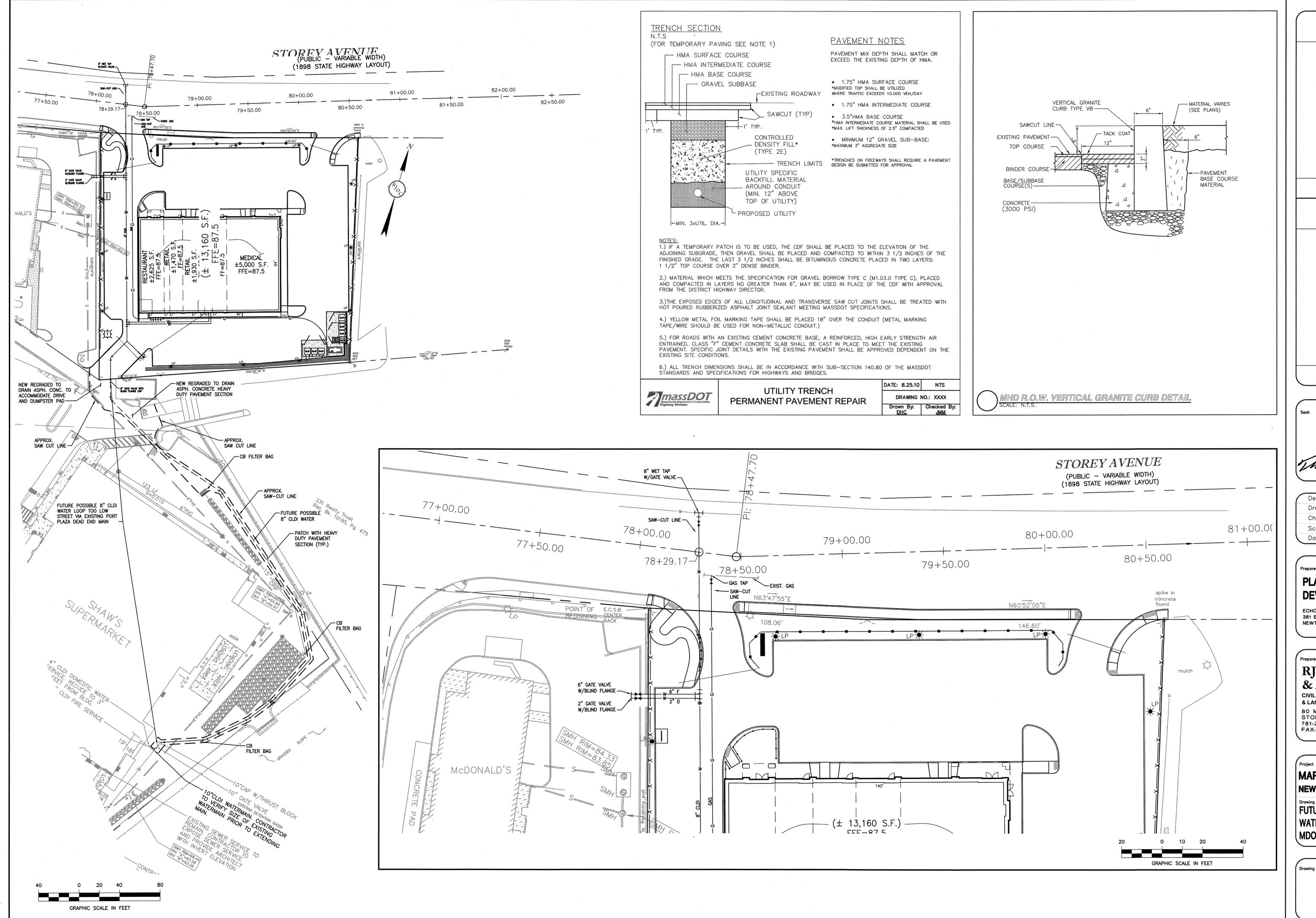
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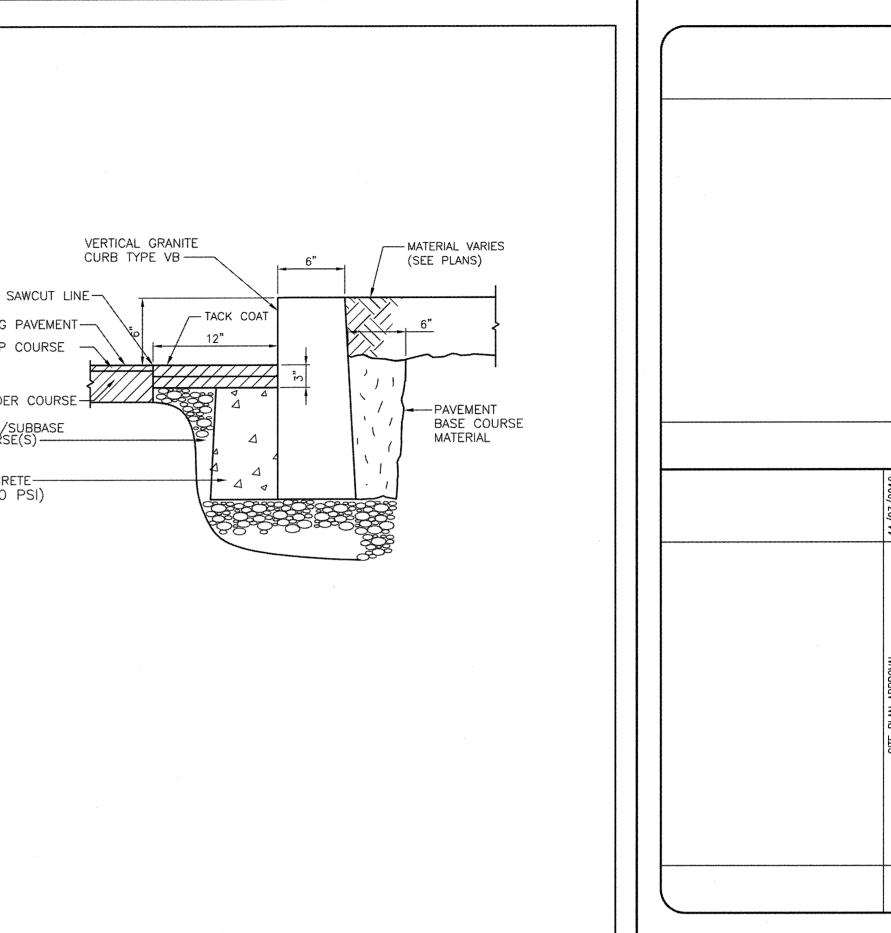
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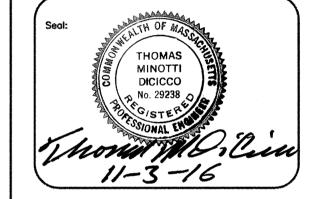
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UTILITY PLAN







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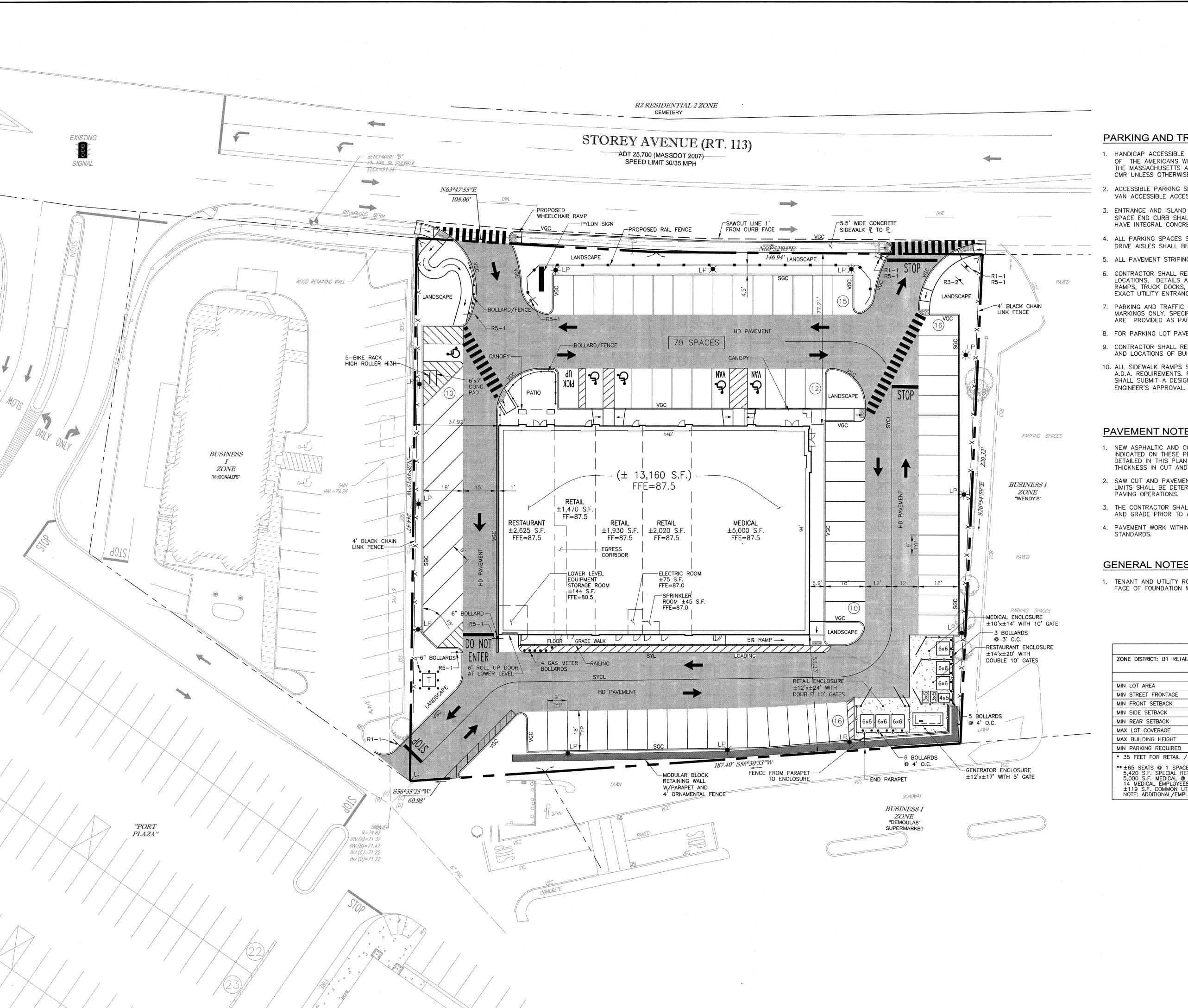
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MARKETPLACE SHOPS NEWBURYPORT, MA

FUTURE POSSIBLE OFFSITE WATER EXTENSION AND MDOT ROAD OPENING PLAN





- 1. HANDICAP ACCESSIBLE PARKING SPACES SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.) OF JANUARY, 1992 AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD OF REGULATIONS, 521 CMR UNLESS OTHERWISE NOTED.
- ACCESSIBLE PARKING SPACES DESIGNATED WITH A "VAN" SHALL BE SIGNED AS VAN ACCESSIBLE ACCESSIBLE" PER A.D.A. 4.1.2.5B.
- 3. ENTRANCE AND ISLAND CURB SHALL BE VERTICAL GRANITE (VGC). PARKING SPACE END CURB SHALL BE SLOPED GRANITE (SGC). BUILDING SIDEWALK SHALL HAVE INTEGRAL CONCRETE CURB.
- DRIVE AISLES SHALL BE 24' WIDE.
- 5. ALL PAVEMENT STRIPING SHALL BE PAINTED WITH 2 COATS OF PAINT.
- 6. CONTRACTOR SHALL REFER TO ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS, DETAILS AND DIMENSIONS OF CONCRETE SIDEWALKS, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, CONCRETE PADS AND
- SHALL SUBMIT A DESIGN DETAIL FOR EACH HANDICAP RAMP FOR THE ENGINEER'S APPROVAL.

PAVEMENT NOTES

- 1. NEW ASPHALTIC AND CONCRETE PAVEMENT SHALL BE PLACED TO THE LIMITS INDICATED ON THESE PLANS. PAVEMENT CROSS SECTION SHALL BE AS DETAILED IN THIS PLAN SET. CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS IN CUT AND PATCH AREAS.
- 2. SAW CUT AND PAVEMENT LIMITS ARE SHOWN AS APPROXIMATE ONLY. FINAL LIMITS SHALL BE DETERMINED IN THE FIELD PRIOR TO COMMENCEMENT OF PAVING OPERATIONS.
- 3. THE CONTRACTOR SHALL ADJUST ALL UTILITY CASTINGS TO THE PROPER LINE AND GRADE PRIOR TO AND IF NECESSARY, AFTER PLACING FINAL PAVEMENT.
- 4. PAVEMENT WORK WITHIN THE MHD ROW SHALL BE IN ACCORDANCE WITH MHD

GENERAL NOTES

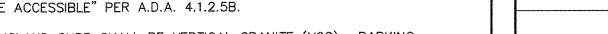
1. TENANT AND UTILITY ROOM AREAS (S.F.) CALCULATED TO OUTSIDE FACE OF FOUNDATION WALL AND CENTER LINE OF DEMISING PARTITION.

	ZONING CHART			
ZONE DISTRICT: B1 RETAIL TRADE 403, RESTAURANT AND RETAIL ALLOWED BY RIGHT.				
	REQUIRED	PROVIDED		
MIN LOT AREA	10,000 S.F.	58,037 S.F.		
MIN STREET FRONTAGE	120 FT.	254 FT.		
MIN FRONT SETBACK	20 FT.	77.21 FT.		
MIN SIDE SETBACK	20 FT.	37.92 FT.		
MIN REAR SETBACK	20 FT.	53.23 FT.		
MAX LOT COVERAGE	30%	23%		
MAX BUILDING HEIGHT	35 FT.*	< 30 FT.		
MIN PARKING REQUIRED	58 SPACES**	79 SPACES**		

* 35 FEET FOR RETAIL / 30 FEET FOR RESTAURANT

** ±65 SEATS @ 1 SPACE/4 SEATS = 17 SPACES
5,420 S.F. SPECIAL RETAIL @ 3 SP/1,000 S.F. = 17 SPACES
5,000 S.F. MEDICAL @ 1 SPACE/300 S.F. = 17 SPACES
14 MEDICAL EMPLOYEES @ 1 SPACE/2 EMPLOYEES = 7 SPACES
±119 S.F. COMMON UTILITY ROOM SPACE (NO PARKING REQUIRED)
NOTE: ADDITIONAL/EMPLOYEE PARKING AVAILABLE IN THE ADJACENT PORT PLAZA LOT

GRAPHIC SCALE IN FEET





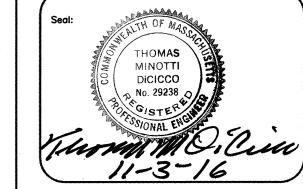
EXACT UTILITY ENTRANCE LOCATIONS.

7. PARKING AND TRAFFIC CONTROL PLANS ARE SCHEMATIC AND FOR LOCATION OF MARKINGS ONLY, SPECIFIC DETAILS FOR INSTALLATION OF PAVEMENT MARKINGS ARE PROVIDED AS PART OF THIS PLAN SET.

8. FOR PARKING LOT PAVEMENT SECTION SEE DETAIL SHEET C-6.

9. CONTRACTOR SHALL REFER TO BUILDING PLANS FOR THE EXACT DIMENSIONS AND LOCATIONS OF BUILDING APPURTENANCES.

10. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED IN CONCRETE AND COMPLY WITH A.D.A. REQUIREMENTS. PRIOR TO INSTALLING HANDICAP RAMPS, CONTRACTOR



Designed by:	TMD
Drawn by:	RJK
Checked by:	TMD
Scale:	1"=20'
Date:	05/04/2016

PLAZA REALTY **DEVELOPMENT TRUST**

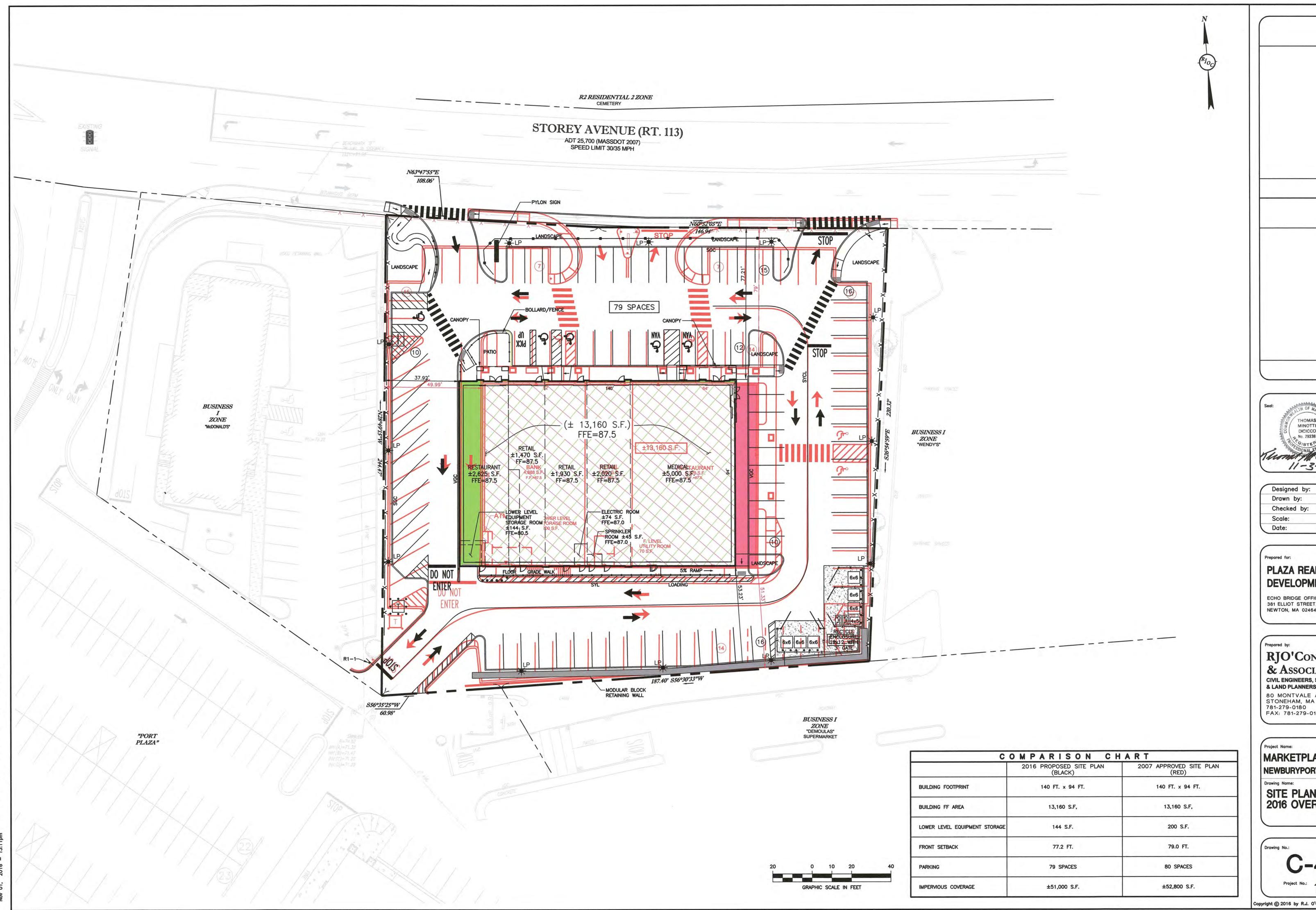
ECHO BRIDGE OFFICE PARK 381 ELLIOT STREET, 110L NEWTON, MA 02464-1130

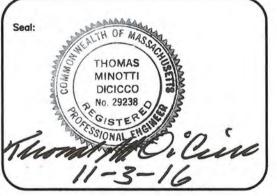
RJO'CONNELL & Associates, Inc. **CIVIL ENGINEERS, SURVEYORS** & LAND PLANNERS 80 MONTVALE AVE STONEHAM, MA 02180 781-279-0180

FAX: 781-279-0173

MARKETPLACE SHOPS NEWBURYPORT, MA

PARKING AND TRAFFIC CONTROL **PLAN**





1	Designed by:	TMD
	Drawn by:	RJK
	Checked by:	TMD
	Scale:	1"=20'
(Date:	11/03/2016

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RJO'CONNELL & ASSOCIATES, INC.

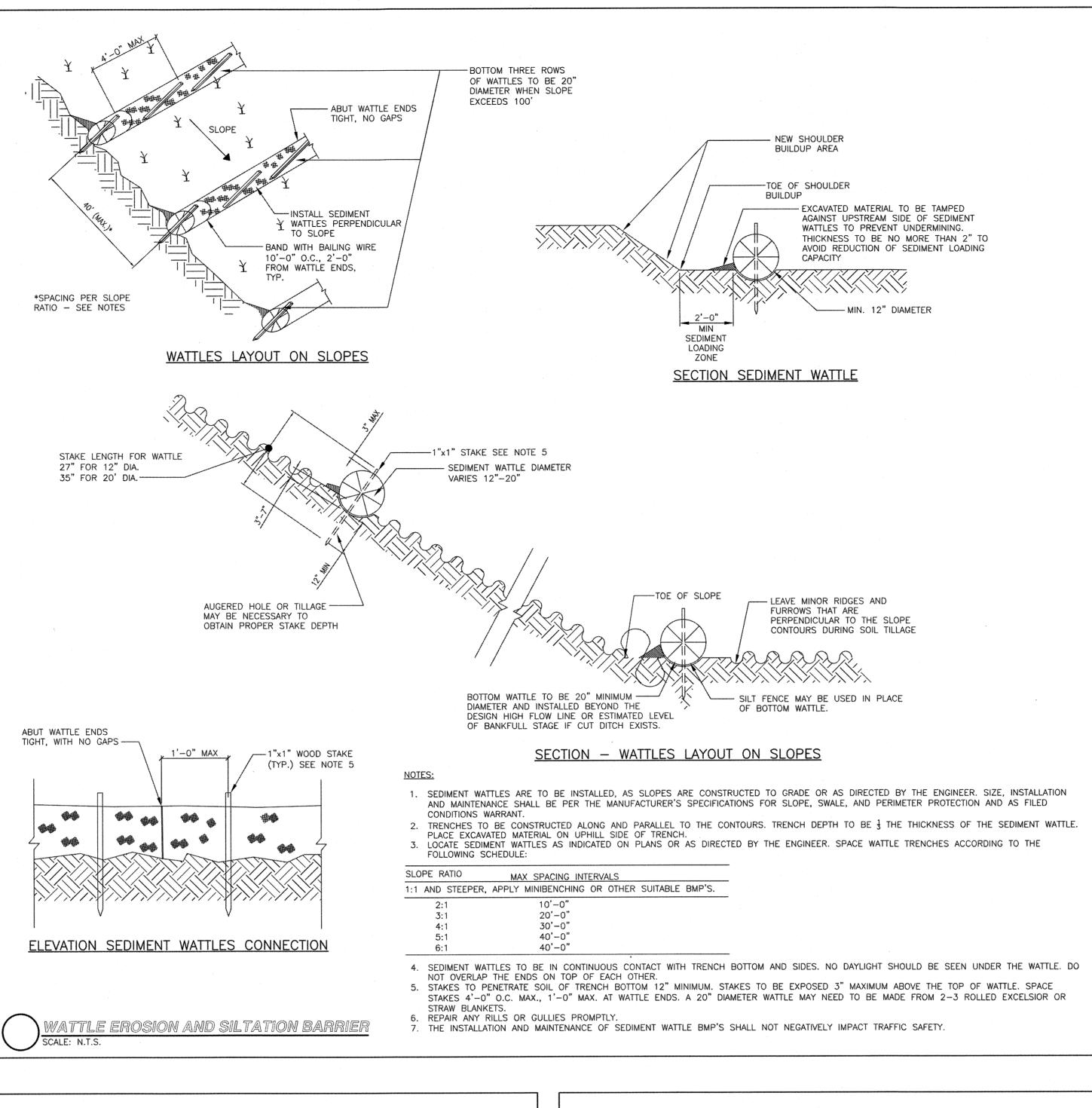
CIVIL ENGINEERS, SURVEYORS

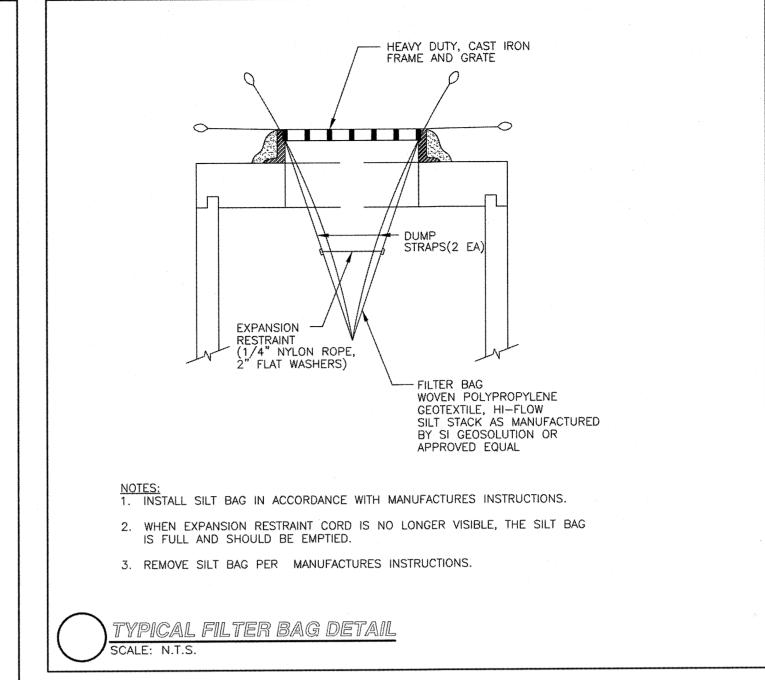
& LAND PLANNERS

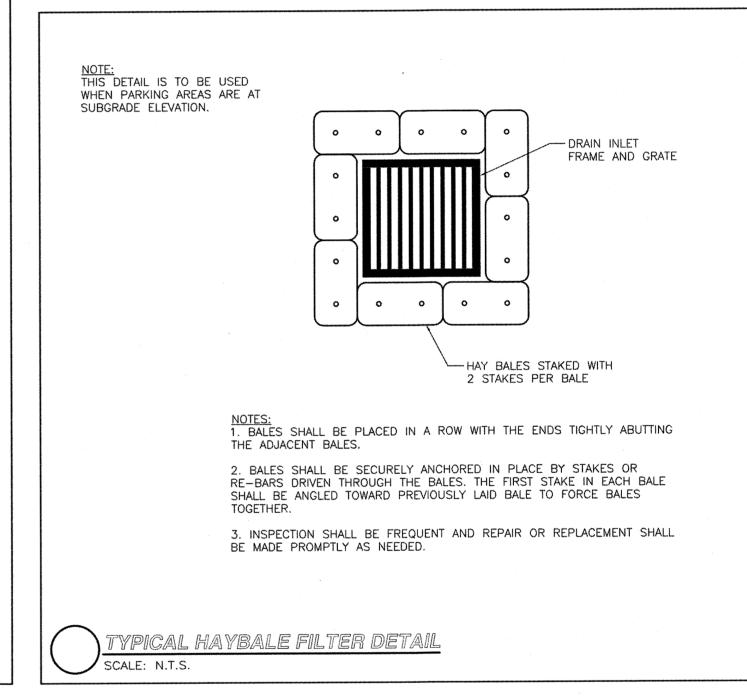
80 MONTVALE AVE STONEHAM, MA 02180 781-279-0180 FAX: 781-279-0173

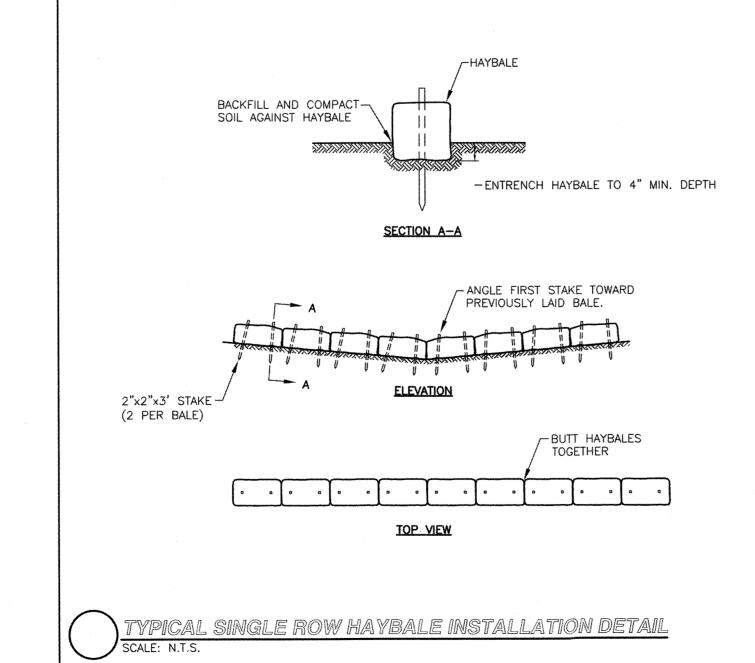
MARKETPLACE SHOPS NEWBURYPORT, MA

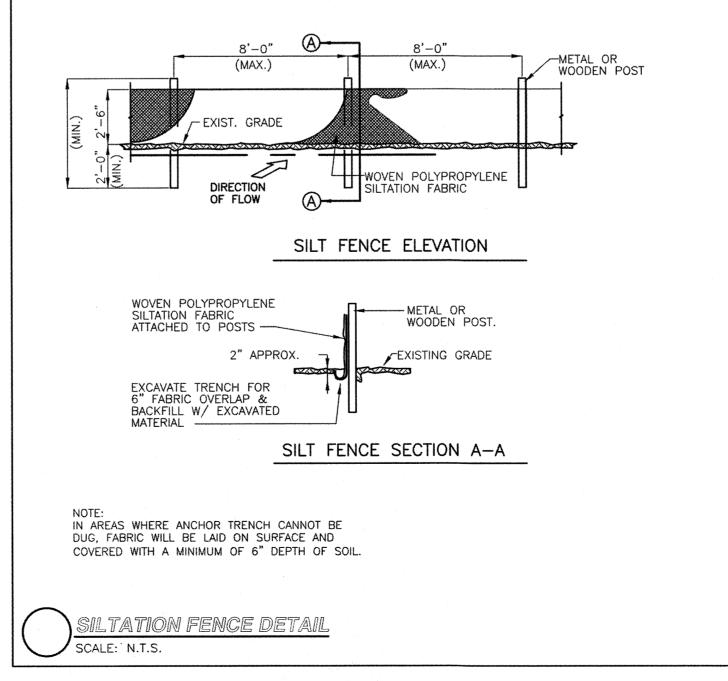
SITE PLAN 2007 / 2016 OVERLAY

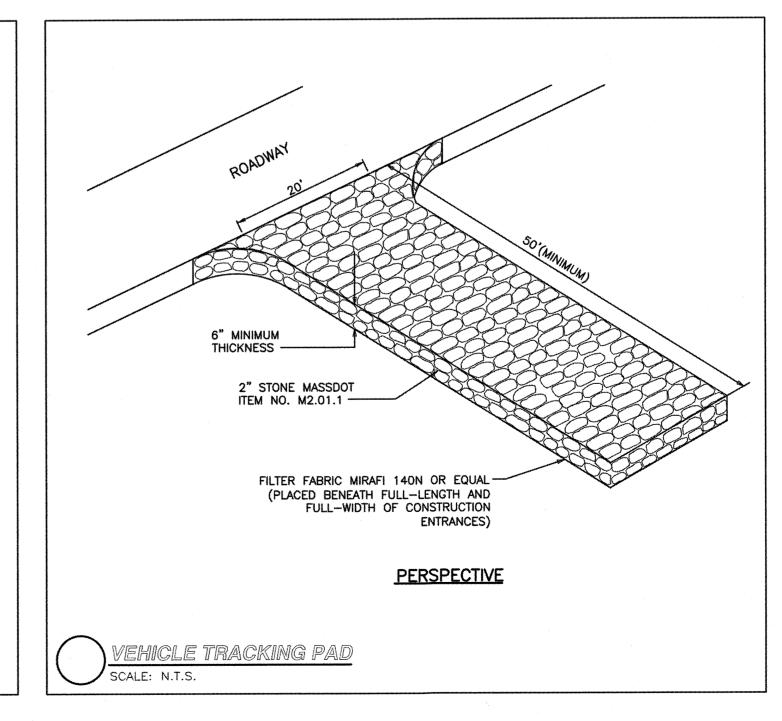


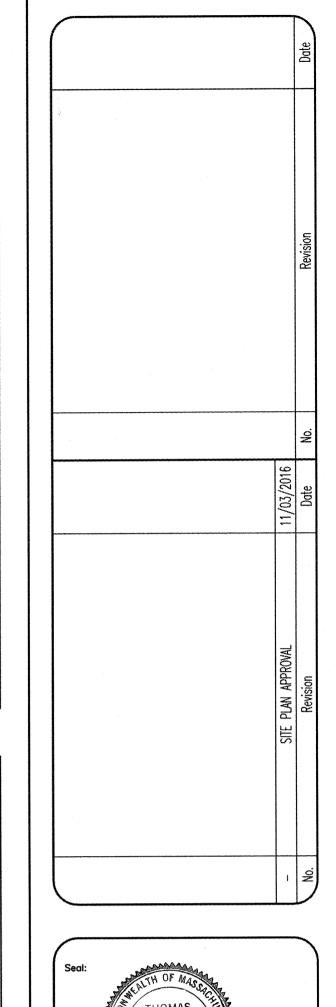


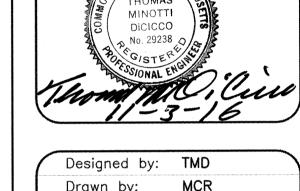












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Scale:	N.T.S.
Date:	05/04/2016

Prepared for:

PLAZA REALTY DEVELOPMENT TRUST

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RJO'CONNELL
& ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS
& LAND PLANNERS
80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180

Project Nam

MARKETPLACE SHOPS
NEWBURYPORT, MA

FAX: 781-279-0173

EROSION CONTROL DETAILS

Drawing No.:

C-5

15099

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.

STORMTECH RECOMMENDS 3 BACKFILL METHODS: • STONESHOOTER LOCATED OFF THE CHAMBER BED.

- BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
- BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM

NOTES FOR CONSTRUCTION EQUIPMENT

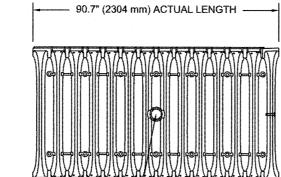
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
- NO FOURMENT IS ALLOWED ON BARE CHAMBERS • NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH
- SC-310/SC-740/DC-780 CONSTRUCTION GUIDE" • WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
- USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY

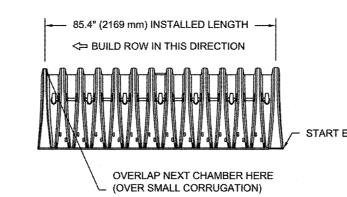
CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



STORMWATER CHAMBER SPECIFICATIONS

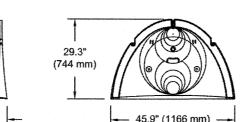
- 1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL
- 2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
- a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
- A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
- c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY



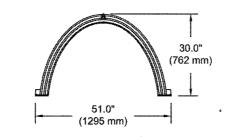


ACCEPTS 4" (100 mm) SCH 40 PVC PIPE FOR INSPECTION PORT, FOR PIPE SIZES LARGER THAN 4" (100 mm) UP TO 10" (250 mm) USE INSERTA TEE CONNECTION CENTERED ON A CHAMBER CREST CORRUGATION

75.0 lbs.



STURS AT ROTTOM OF END CAP FOR PART NUMBERS ENDING WITH "R"



IOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH CHAMBER STORAGE MINIMUM INSTALLED STORAGE*

(310 mm) ~

51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm) 45.9 CUBIC FEET (1.30 m³) 74.9 CUBIC FEET (2.12 m³) (33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

В	
	сЈ

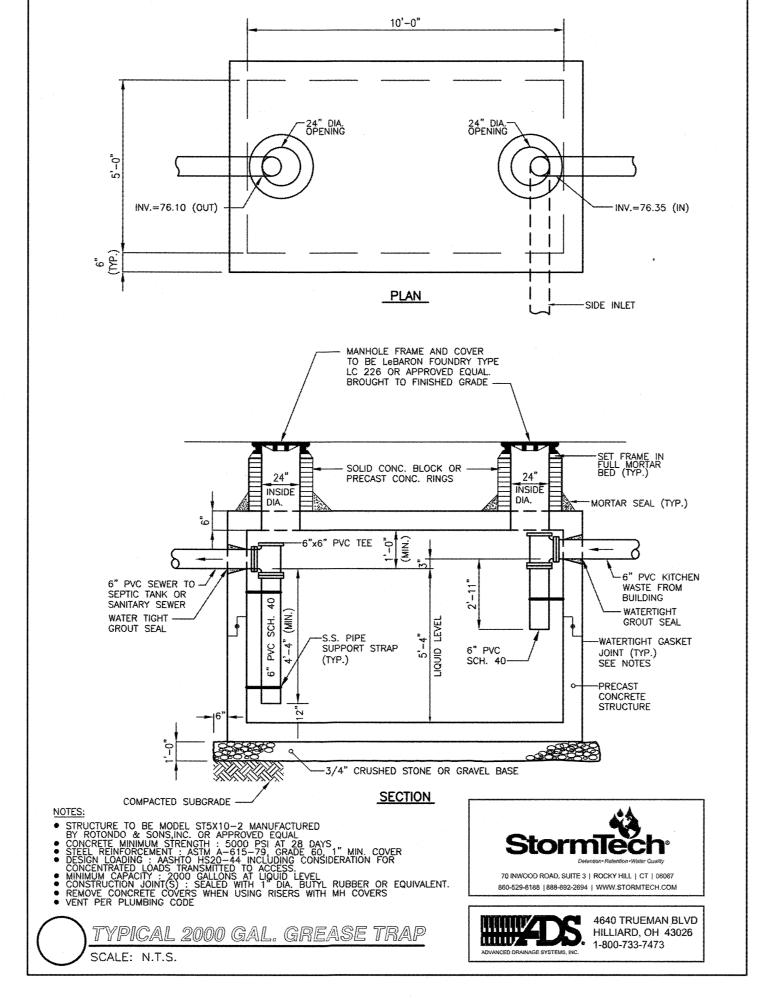
	AP FOR PART NUMBERS		*	C ¬
PART#	STUB	Α	В	С
SC740EPE06T	CP (AEO)	40 0º /277 mm\	18.5" (470 mm)	
SC740EPE06B	6" (150 mm)	10.9" (277 mm)		0.5" (13 mm)
SC740EPE08T	0# /200 mm)	12.2" (310 mm)	16.5" (419 mm)	***
SC740EPE08B	8" (200 mm)	12.2 (310 11111)		0.6" (15 mm)
SC740EPE10T	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	
SC740EPE10B		13.4 (340 11111)		0.7" (18 mm)
SC740EPE12T	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	
SC740EPE12B	12 (300 11111)	14.7 (3/3/1111)		1.2" (30 mm)
SC740EPE15T	45" /275 mm\	19.4" (467 mm)	9.0" (229 mm)	
SC740EPE15B	15" (375 mm)	18.4" (467 mm)		1.3" (33 mm)
SC740EPE18T	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	
SC740EPE18B	10 (430 11111)	19.7 (300 mm)		1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)		0.1" (3 mm)

1-888-892-2694. * FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT

ALL STUBS. EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF ENDICAP SUCH THAT THE OUTSIDE DIAMETER OF

NOTE: ALL DIMENSIONS ARE NOMINAL

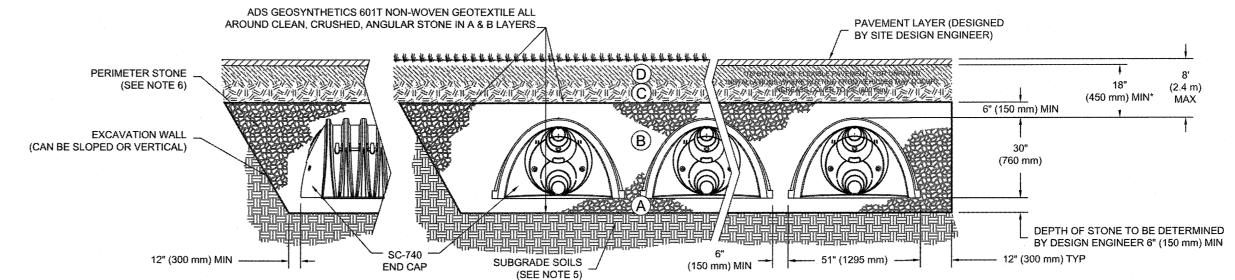


ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

		MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
	D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
	С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	OR	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
	В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
-	A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE, ^{2 3}

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE." ANGULAR NO. 4 (AASHTO M43) STONE".

STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION



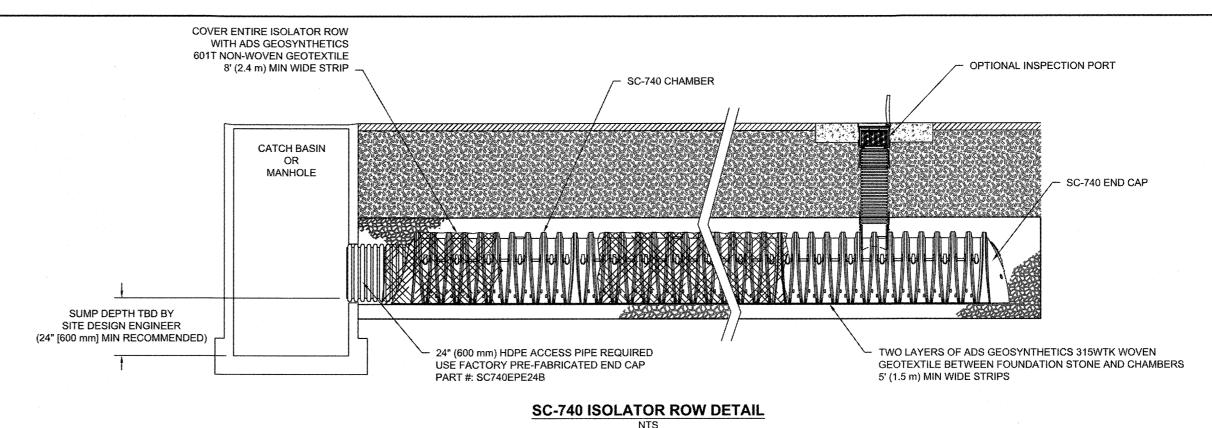
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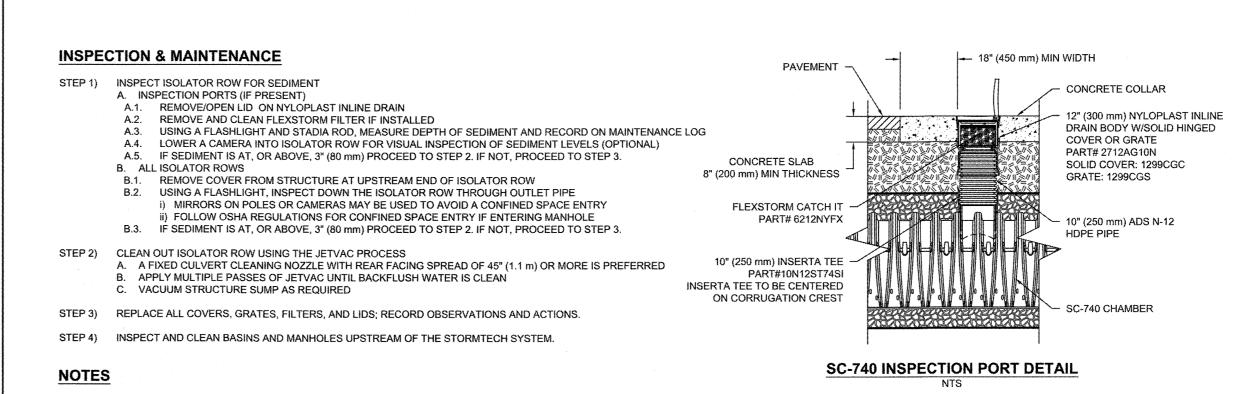
- 1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION
- 3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL
- 4. THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

EQUIPMENT, FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

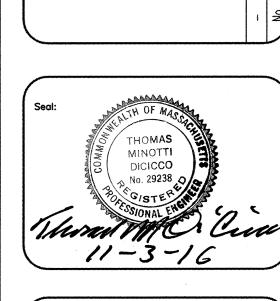
- '. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL

REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.





- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.
- C-740 ISOLATOR ROW DETAIL AND SC-740 INSPECTION PORT DETAIL



Designed by: TMD Drawn by: TMD Checked by: N.T.S. Scale: 05/04/2016 Date:

Prepared for:

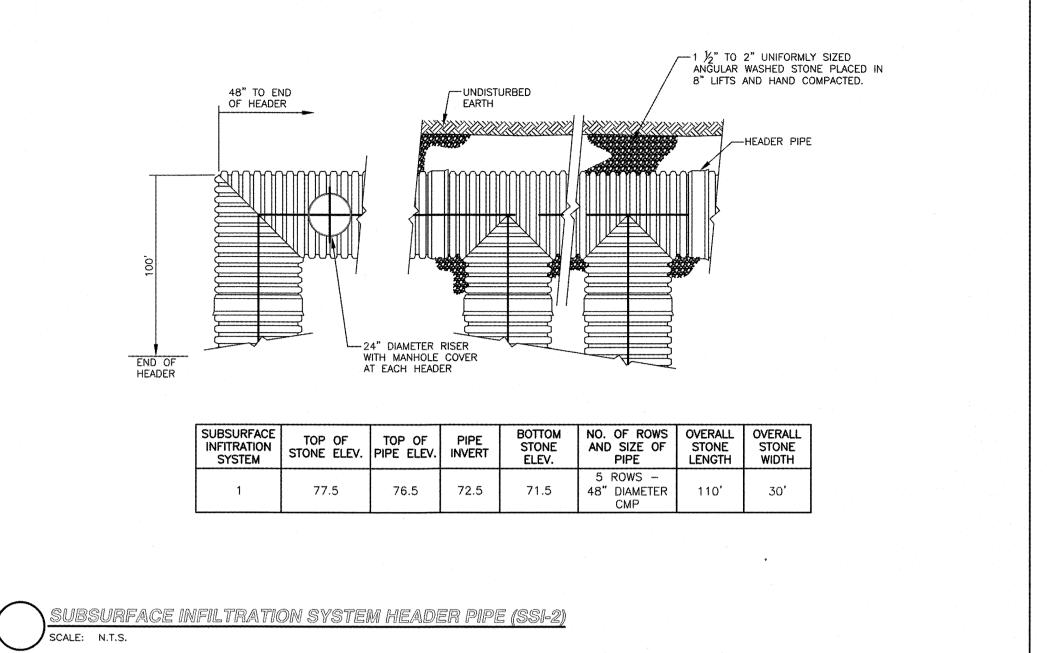
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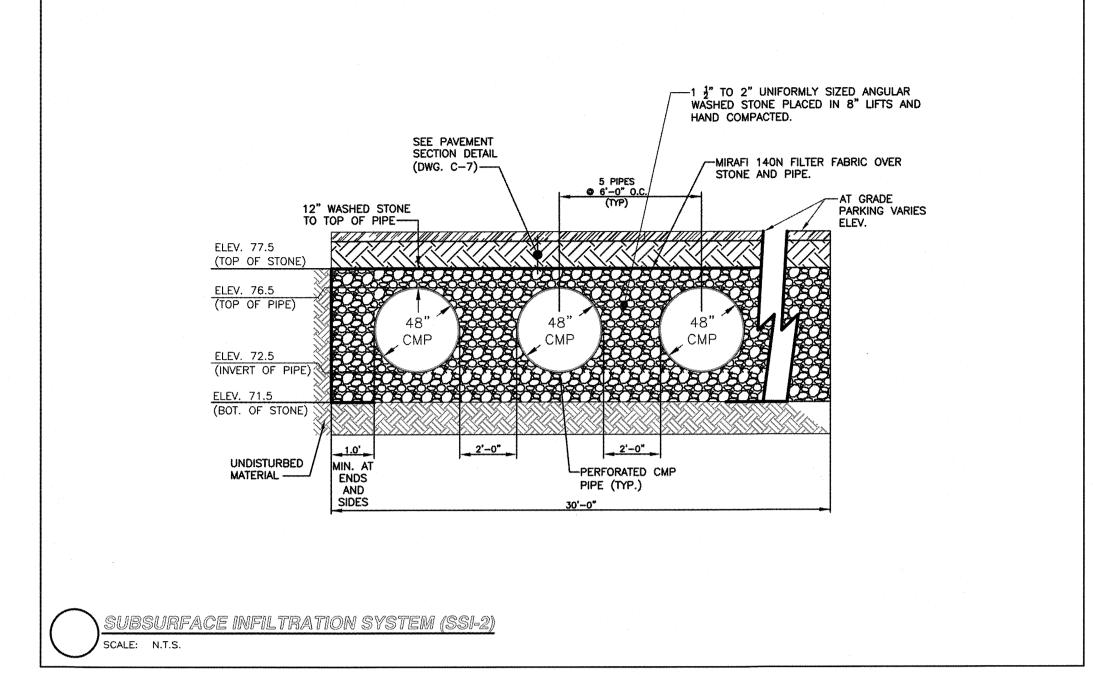
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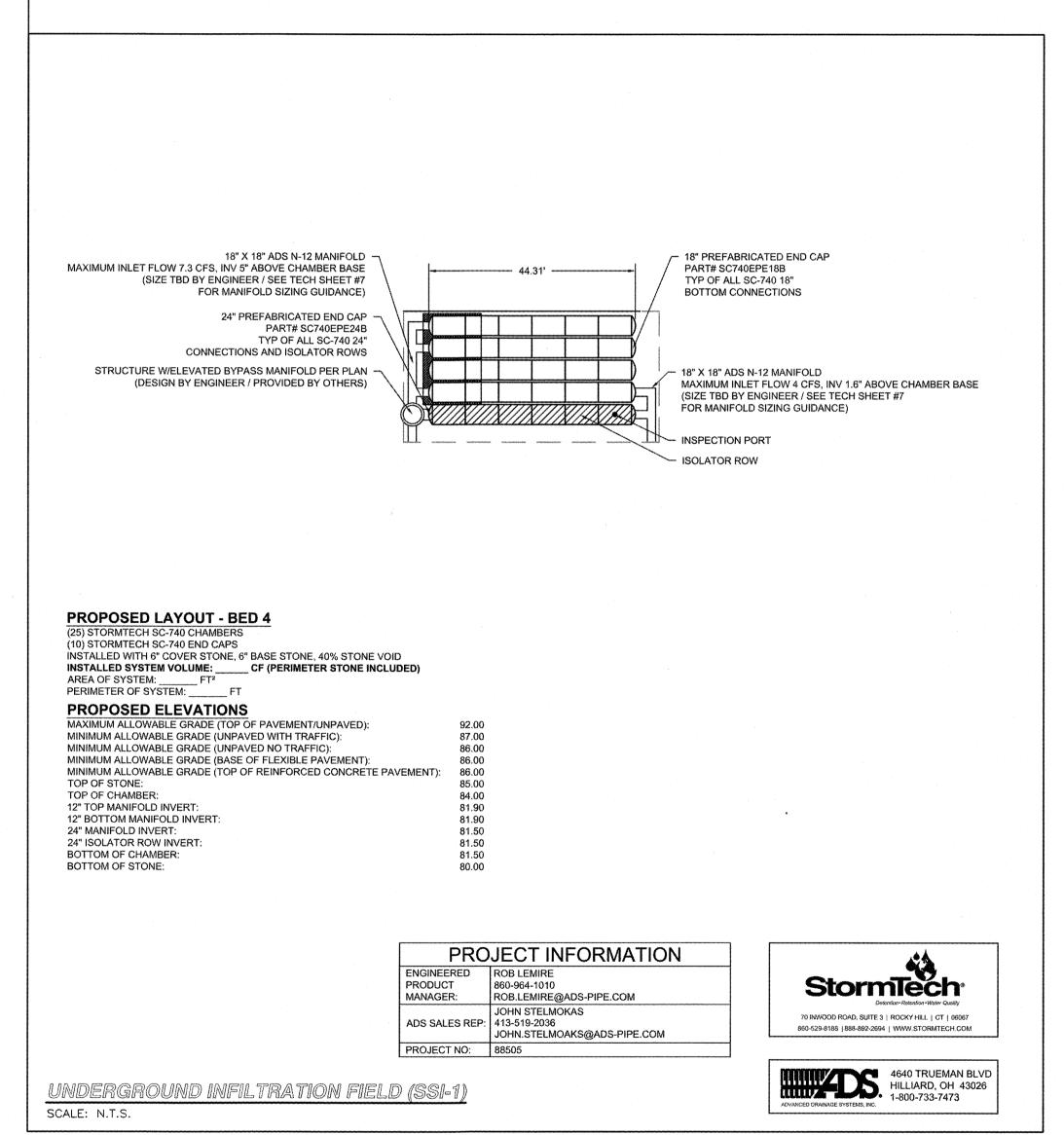
Prepared by: RJO'CONNELL & Associates, Inc. **CIVIL ENGINEERS, SURVEYORS** & LAND PLANNERS 80 MONTVALE AVE STONEHAM, MA 02180 781-279-0180 FAX: 781-279-0173

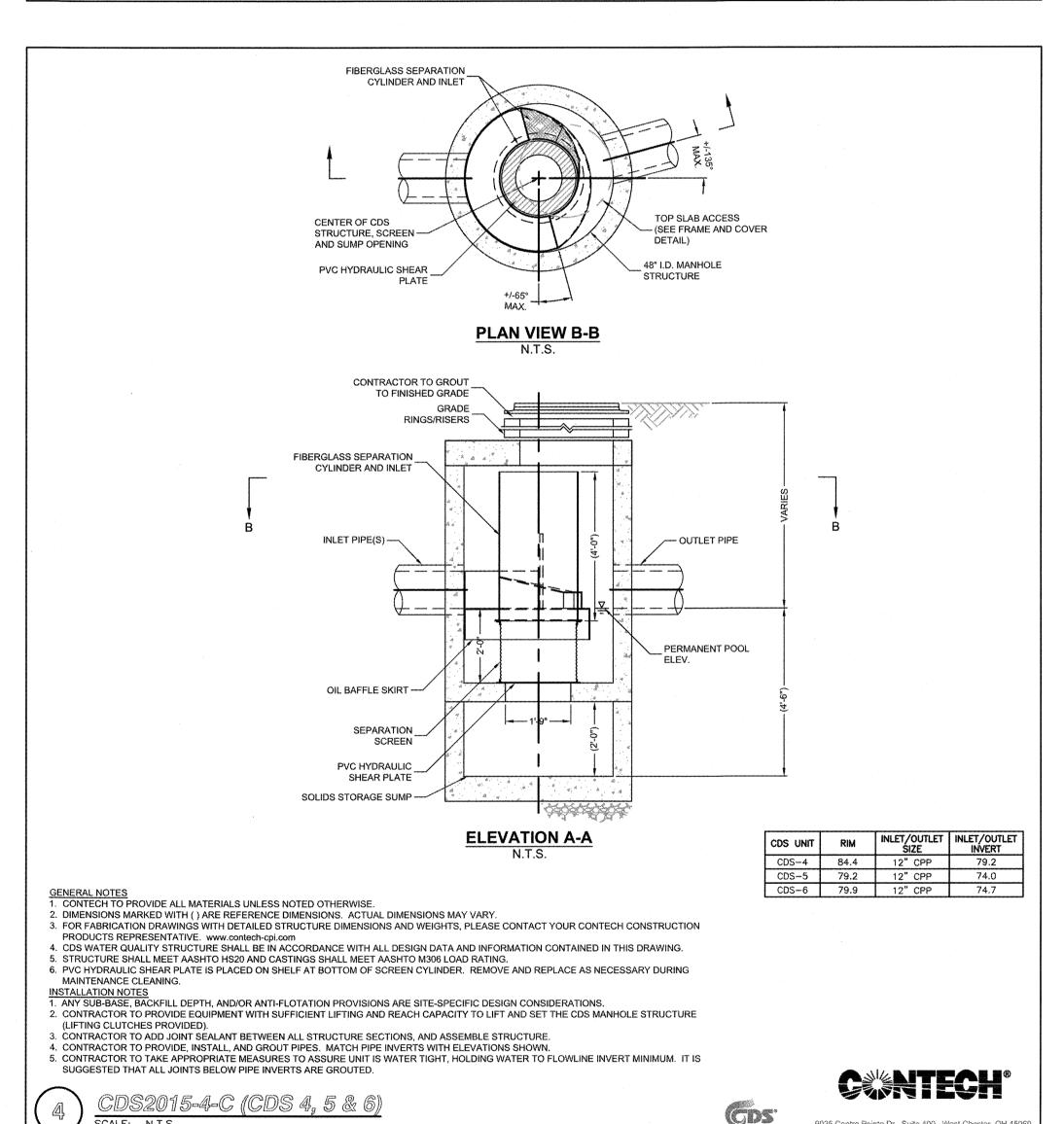
MARKETPLACE SHOPS **NEWBURYPORT, MA**

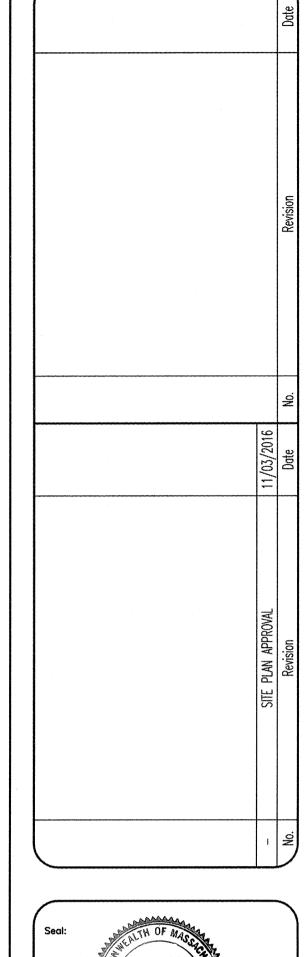
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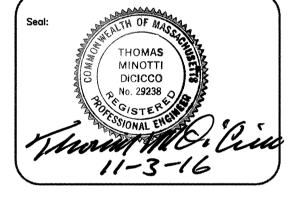












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Prepared for:

PLAZA REALTY DEVELOPMENT TRUST

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repared by:

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& LAND PLANNERS

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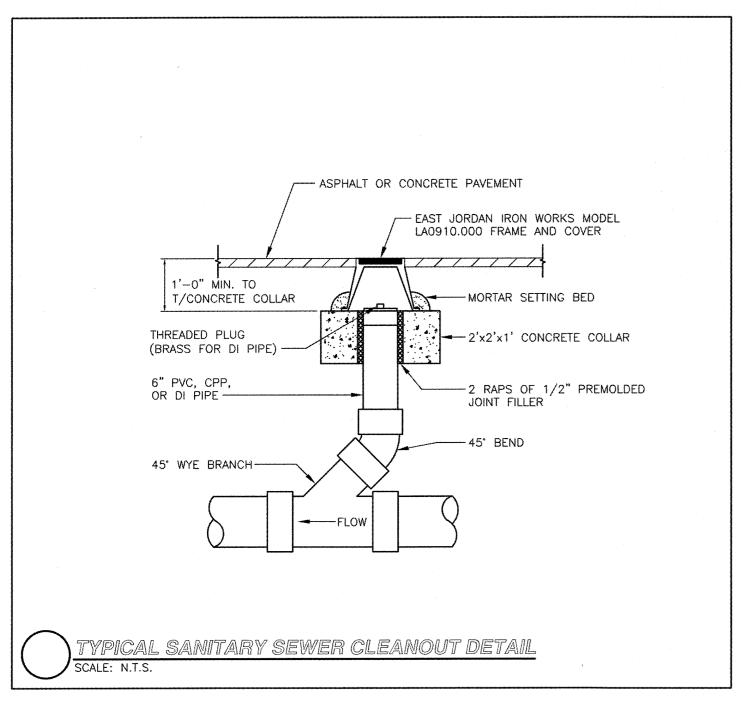
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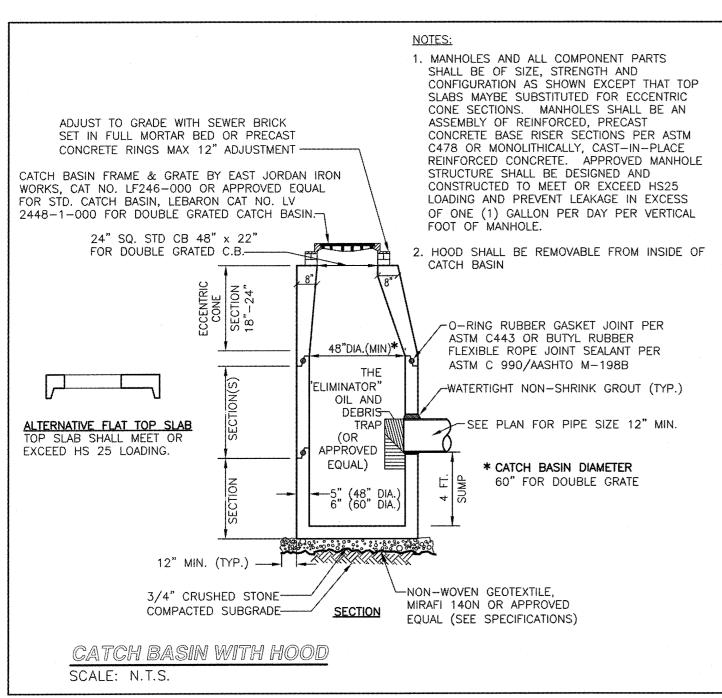
MARKETPLACE SHOPS
NEWBURYPORT, MA

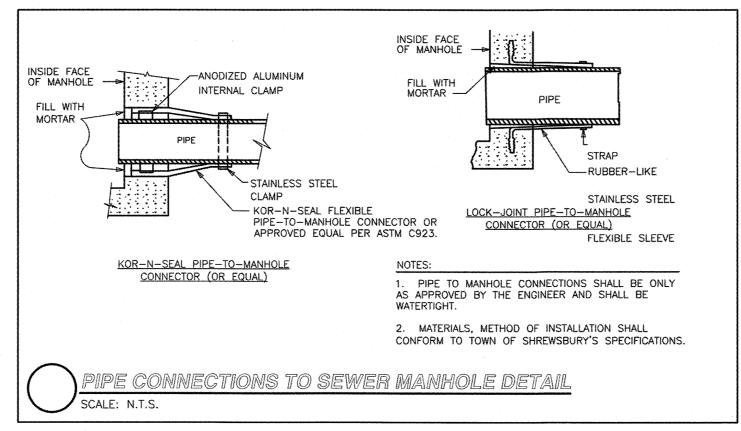
UNDERGROUND
BASIN DETAILS

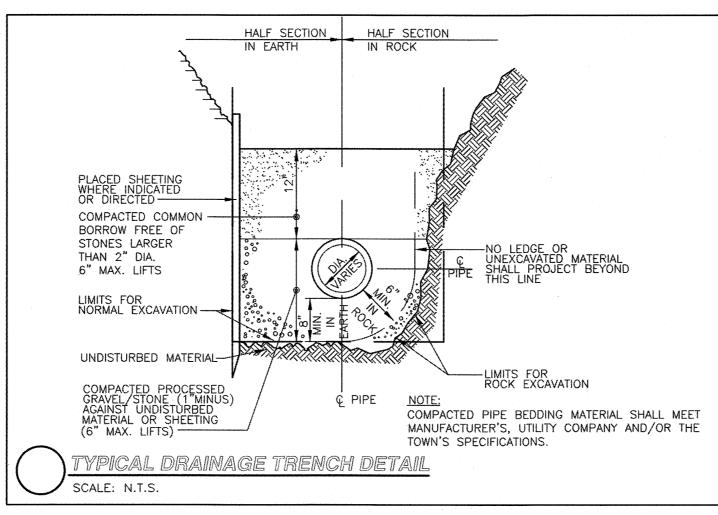
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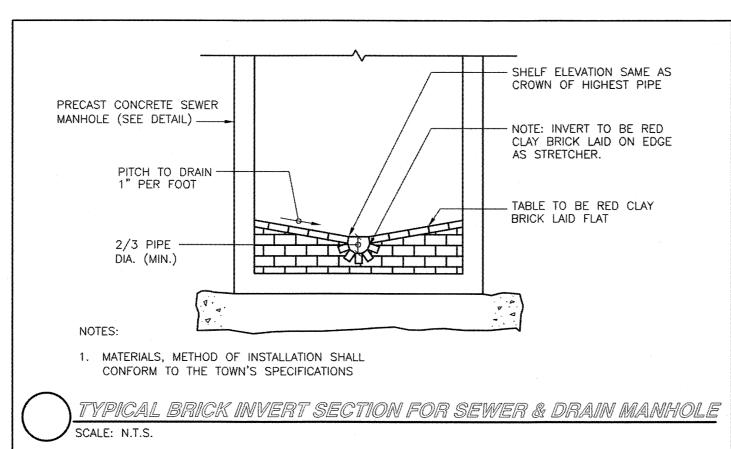
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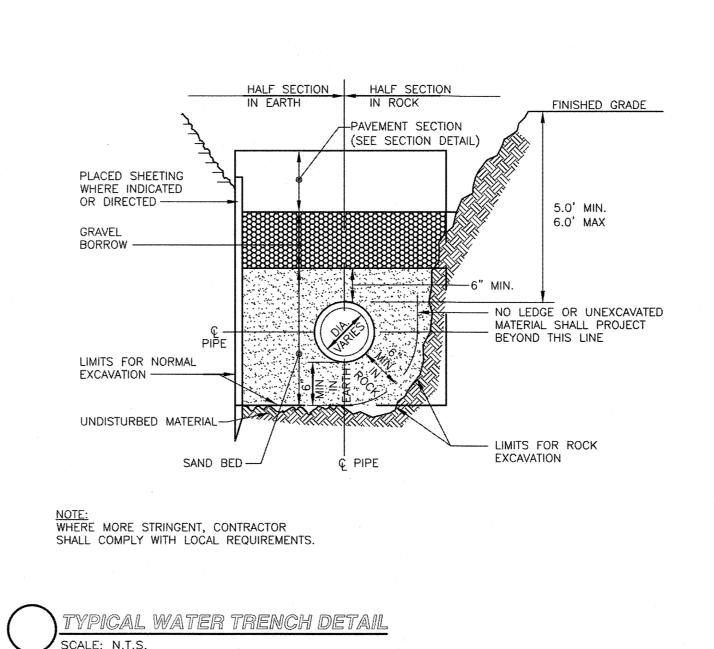


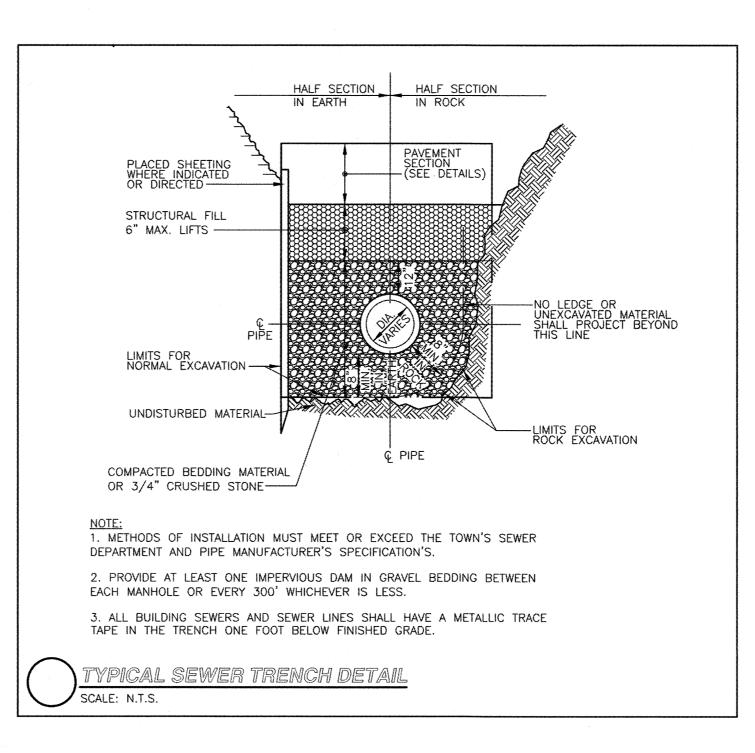


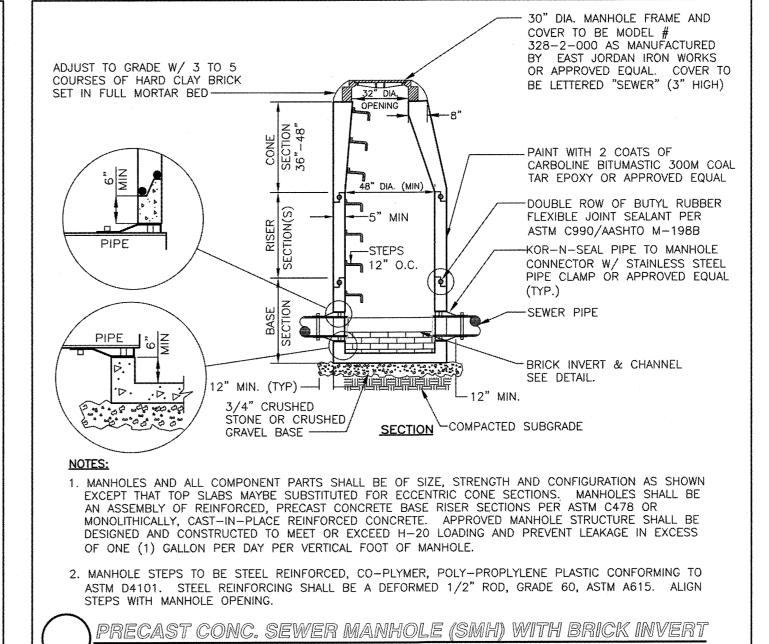


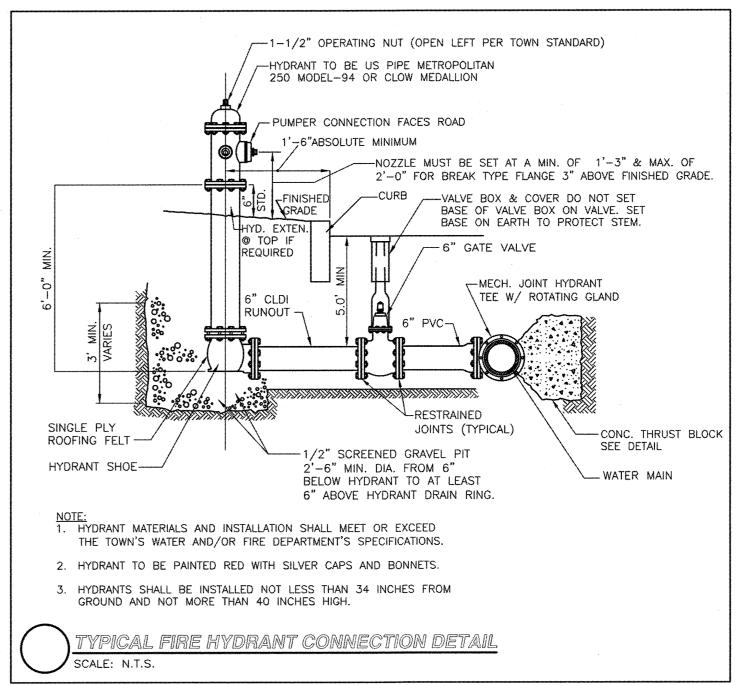


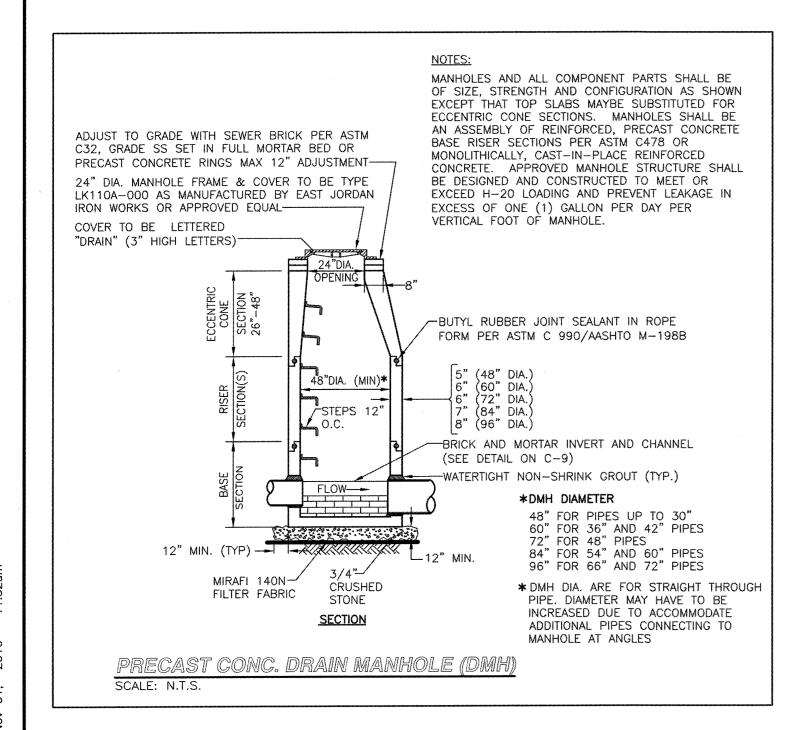


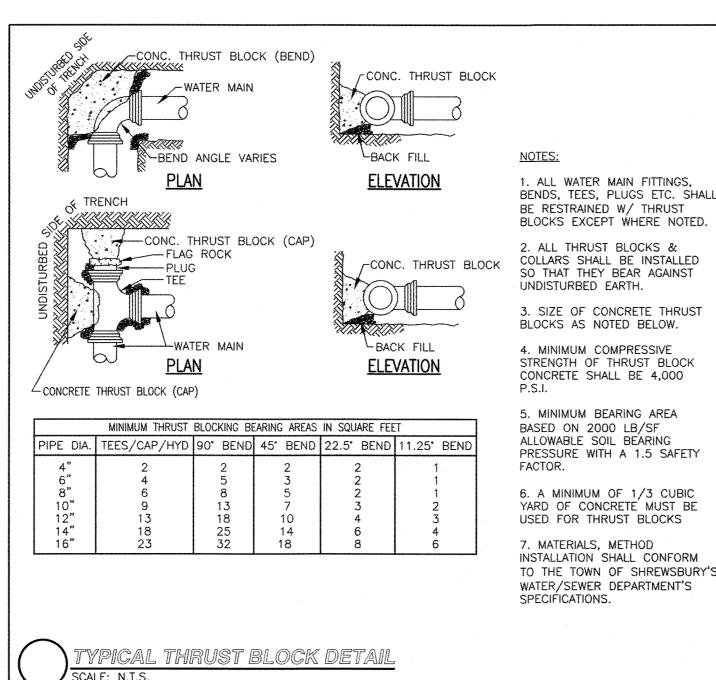


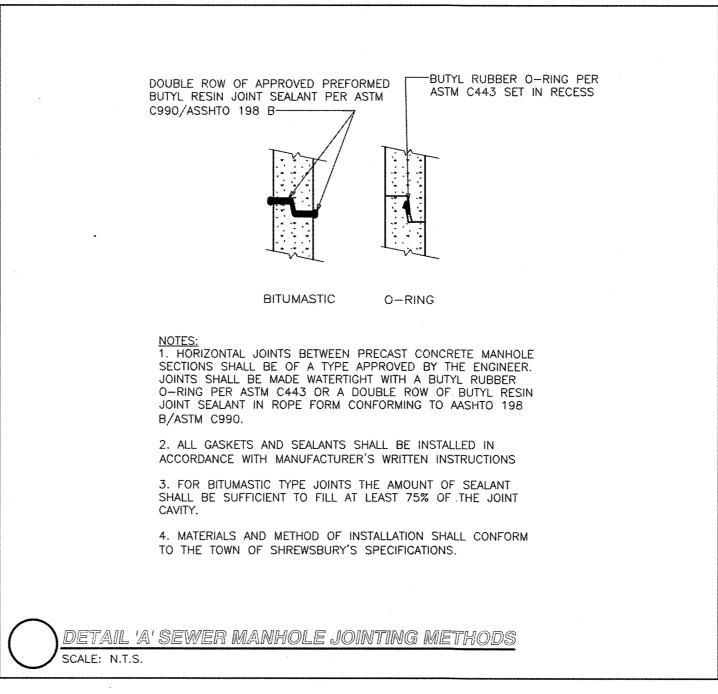


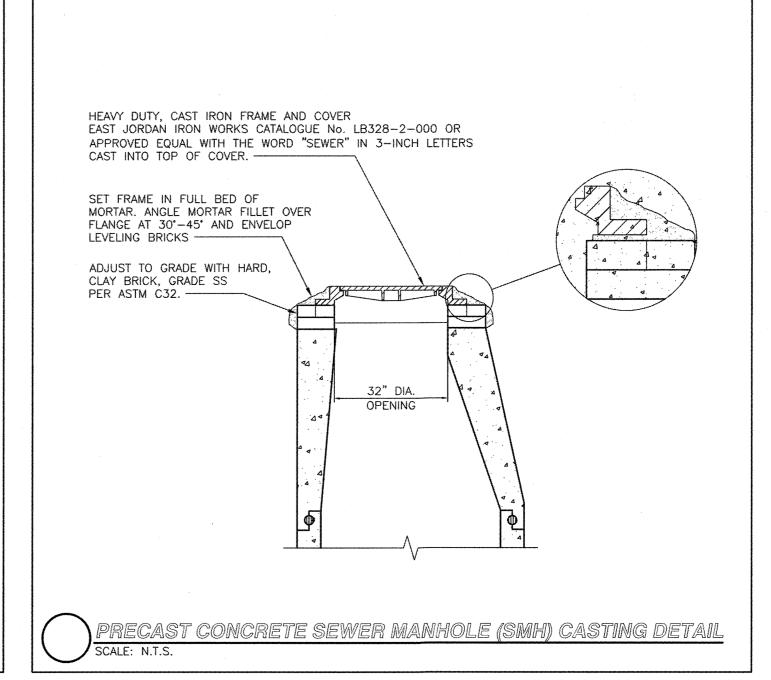


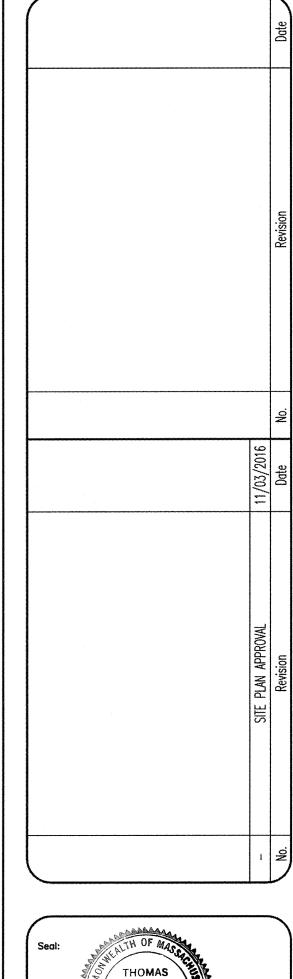


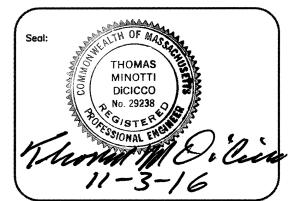












Designed by:	TMD
Drawn by:	MCR
 Checked by:	TMD
 Scale:	N.T.S.
 Date:	05/04/2016

PLAZA REALTY
DEVELOPMENT TRUST

ECHO BRIDGE OFFICE PARK 381 ELLIOT STREET, 110L NEWTON, MA 02464-1130

RJO'CONNELL

& ASSOCIATES, INC
CIVIL ENGINEERS, SURVEYORS
& LAND PLANNERS

80 MONTVALE AVE
STONEHAM, MA 02180
781-279-0180
FAX: 781-279-0173

MARKETPLACE SHOPS
NEWBURYPORT, MA

wing Name:

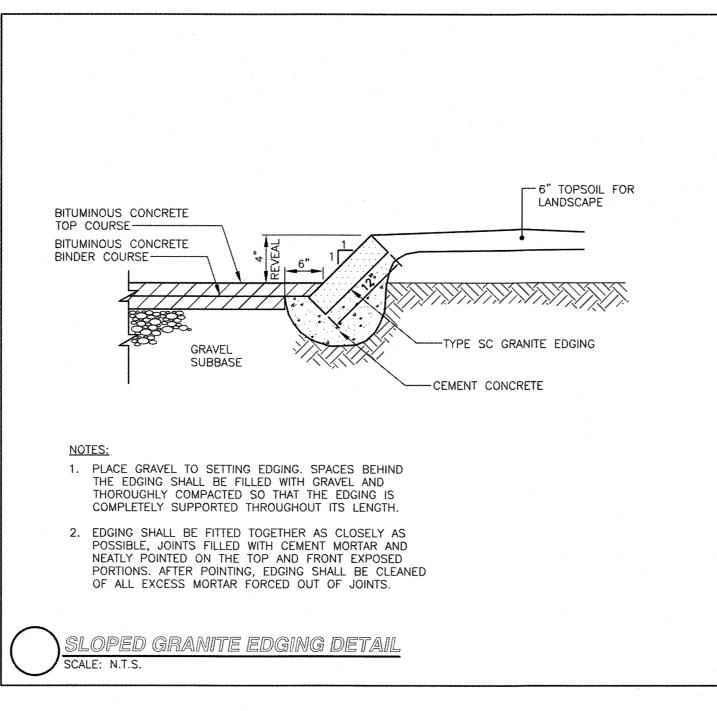
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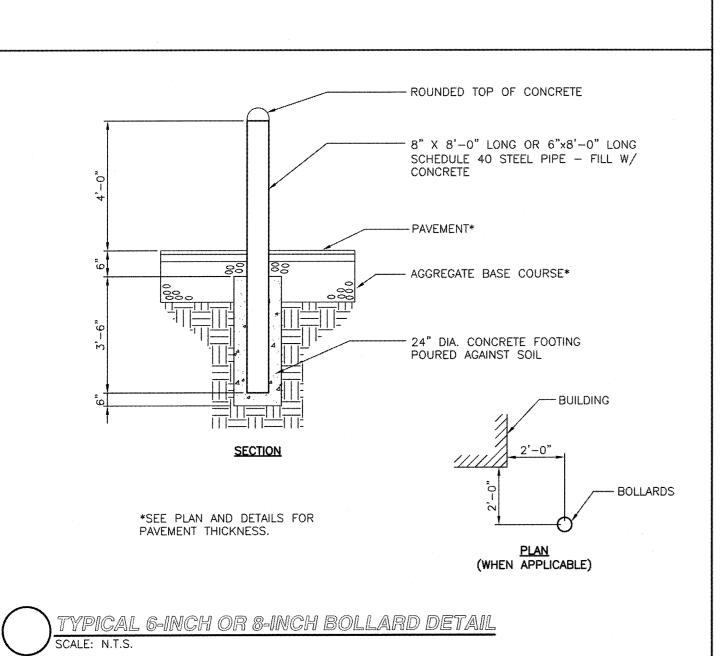
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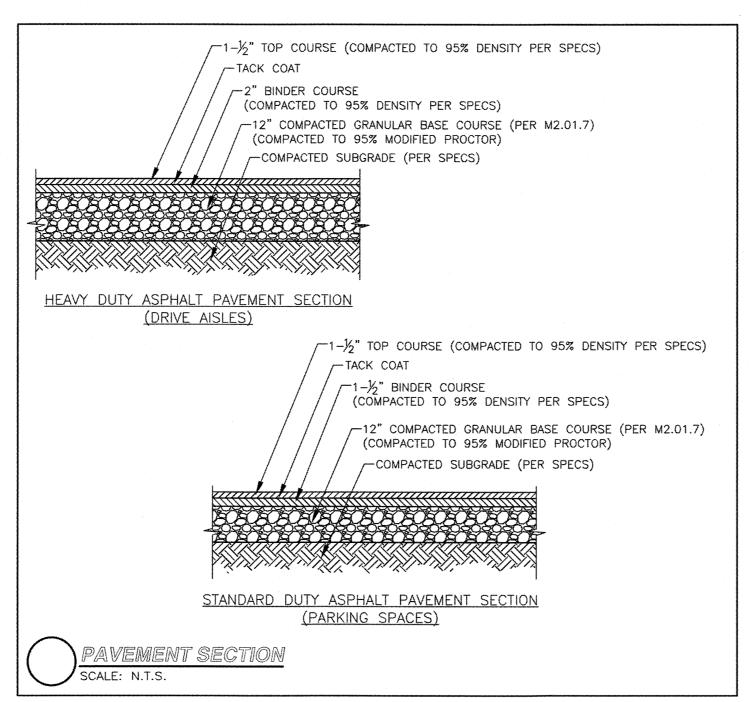
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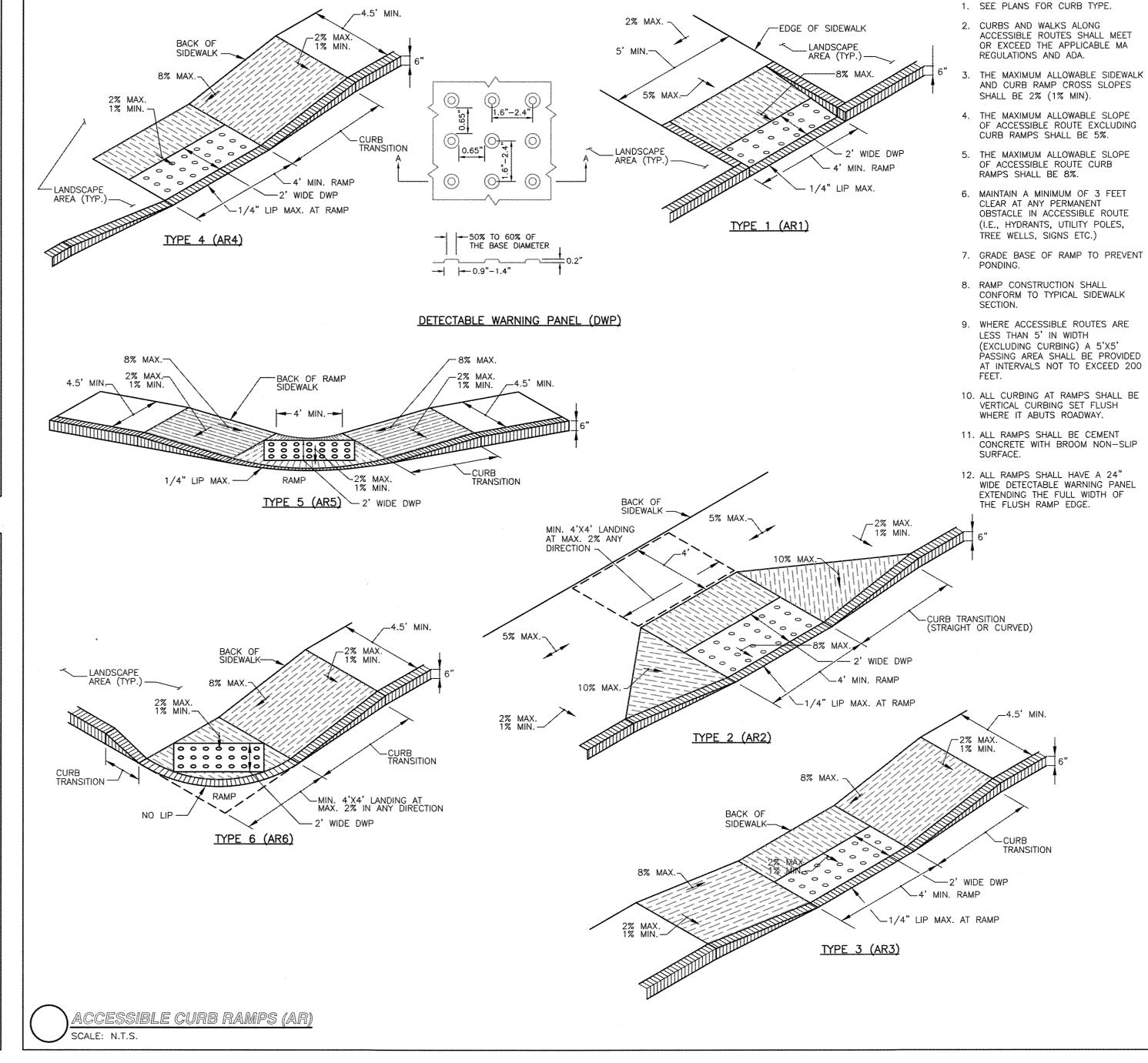
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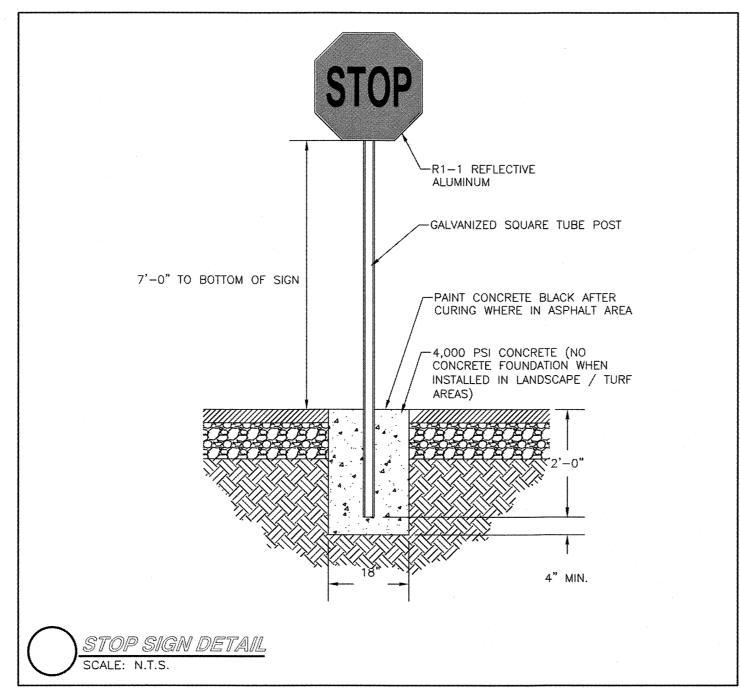
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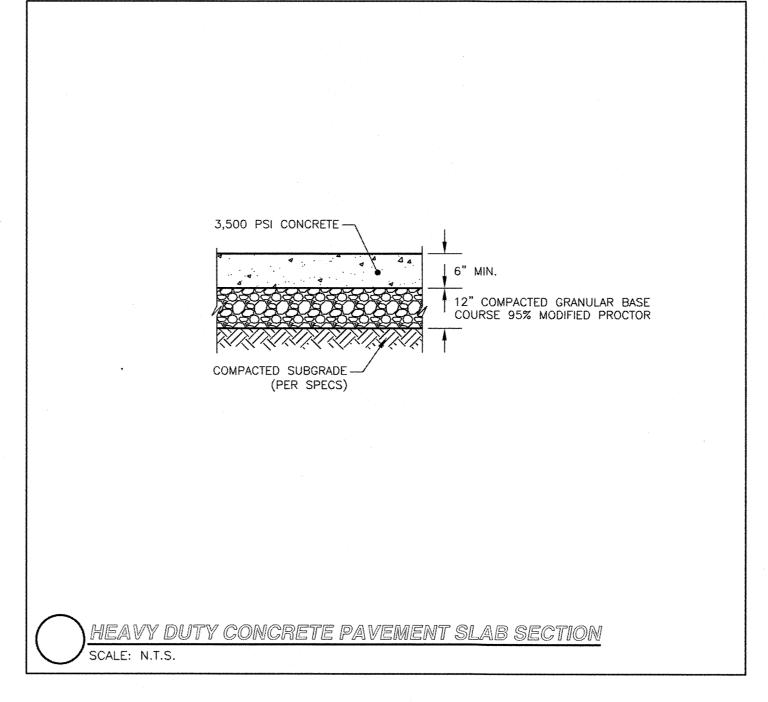


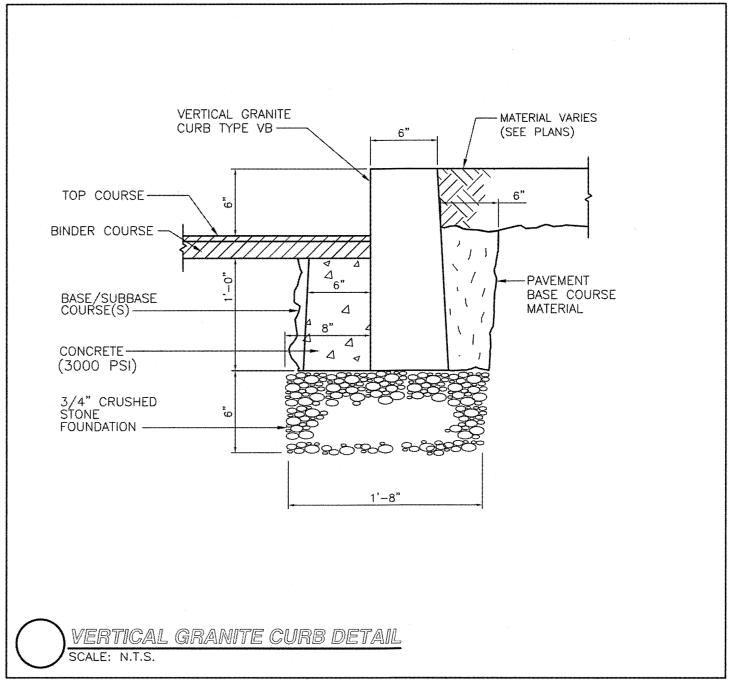




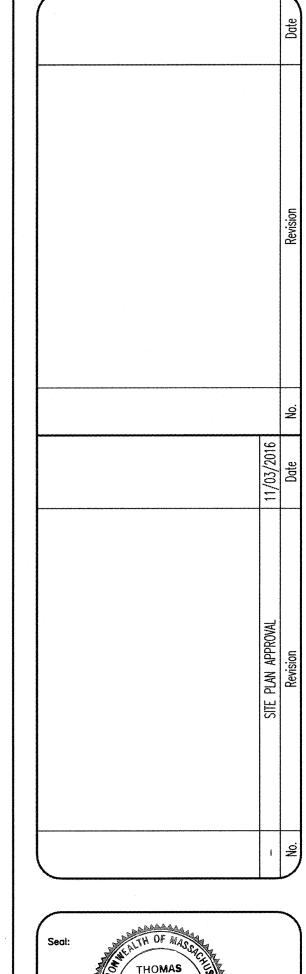


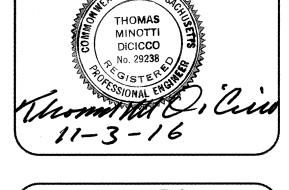






NOTES:





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Date:	05/04/2016

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DEVELOPMENT TRUST

ECHO BRIDGE OFFICE PARK 381 ELLIOT STREET, 110L NEWTON, MA 02464-1130

Prepared by:

RJO'CONNELL

& ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS
& LAND PLANNERS

80 MONTVALE AVE

STONEHAM, MA 02180

781-279-0180

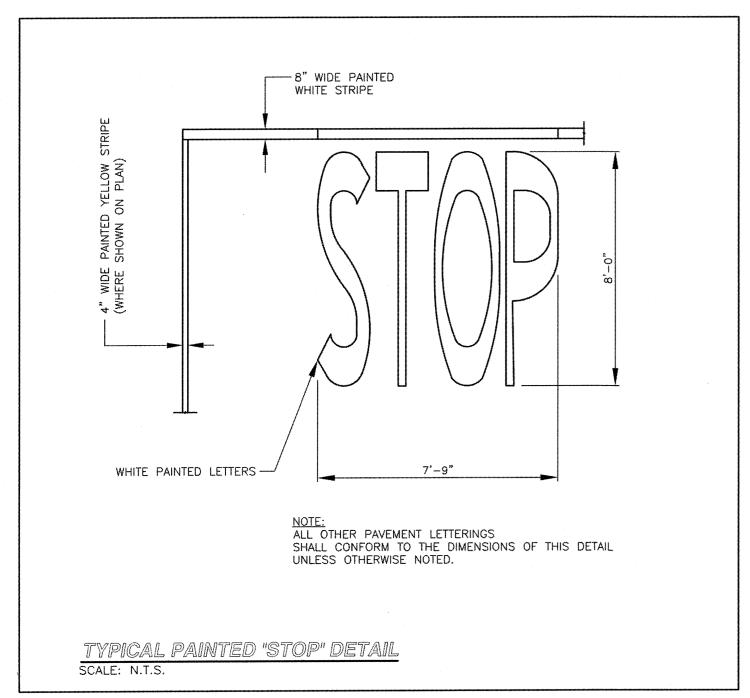
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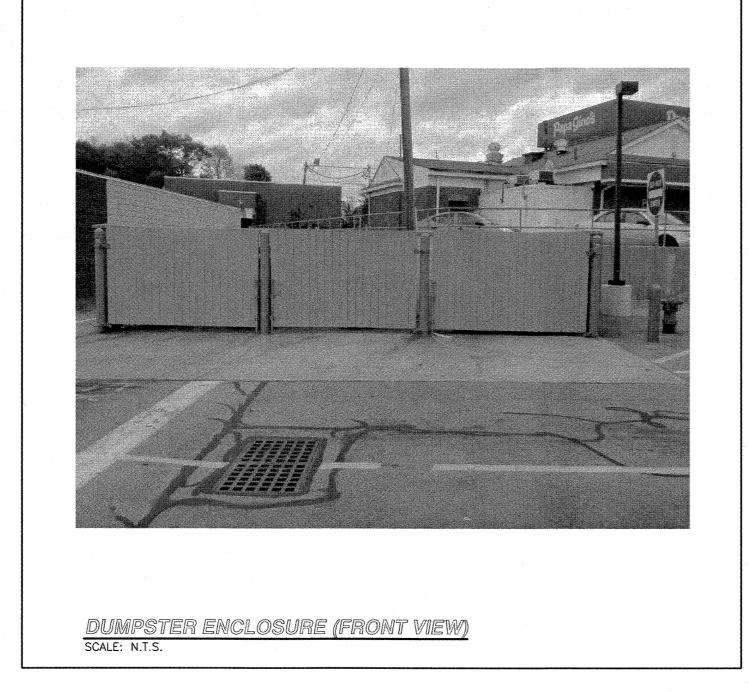
MARKETPLACE SHOPS
NEWBURYPORT, MA

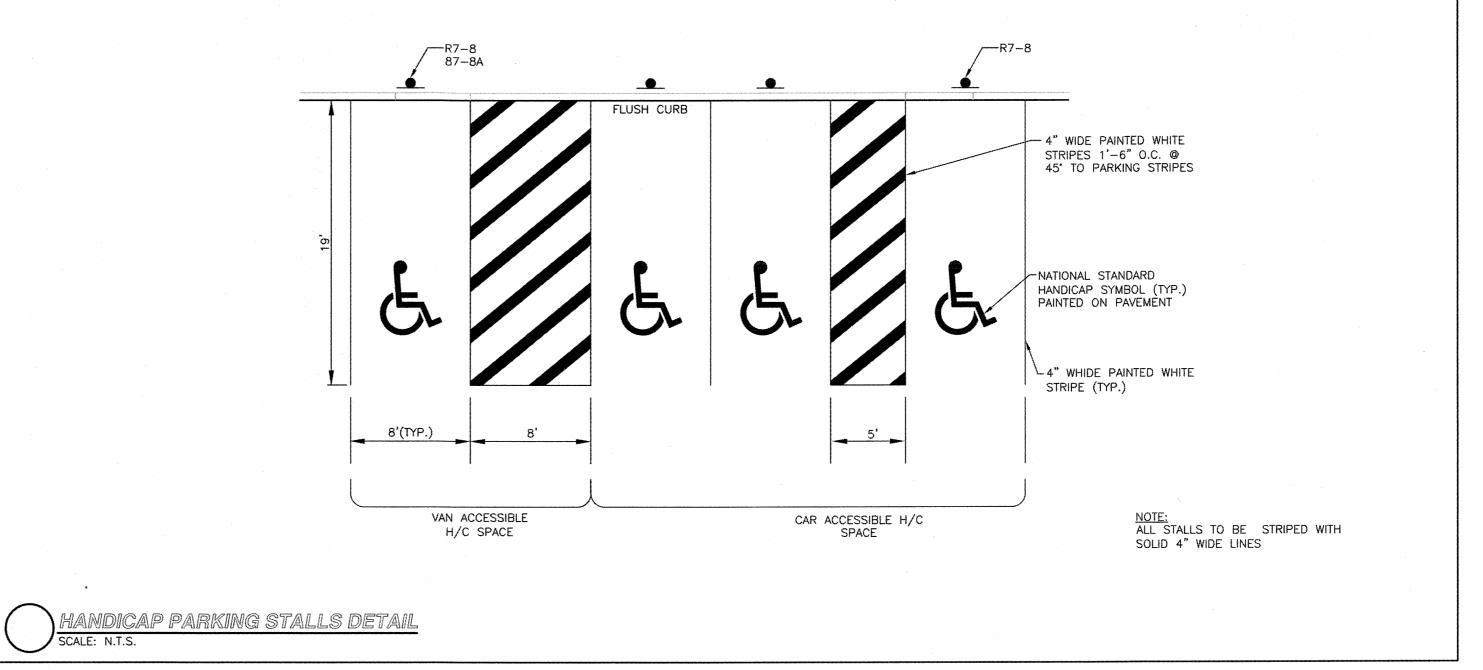
PARKING AND
TRAFFIC CONTROL
DETAILS - 1

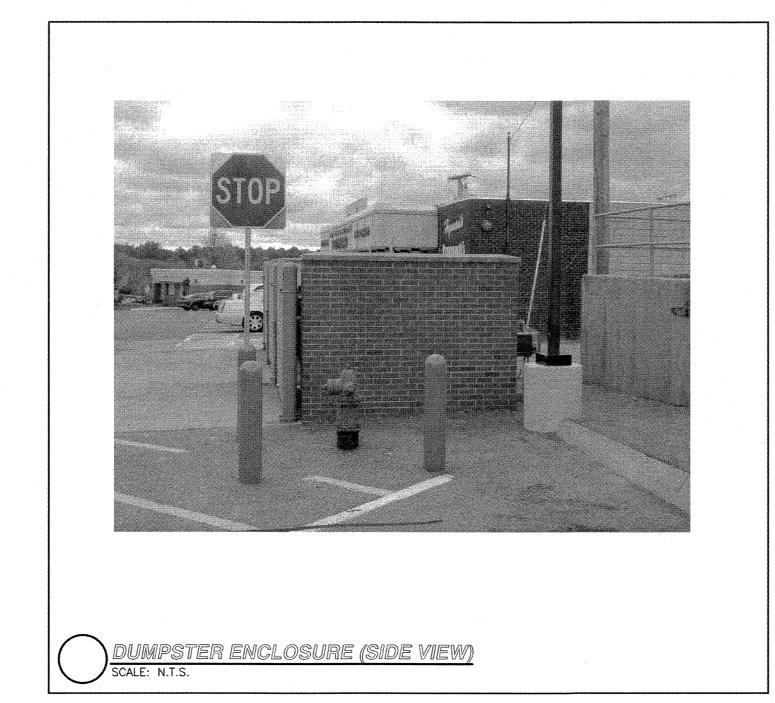
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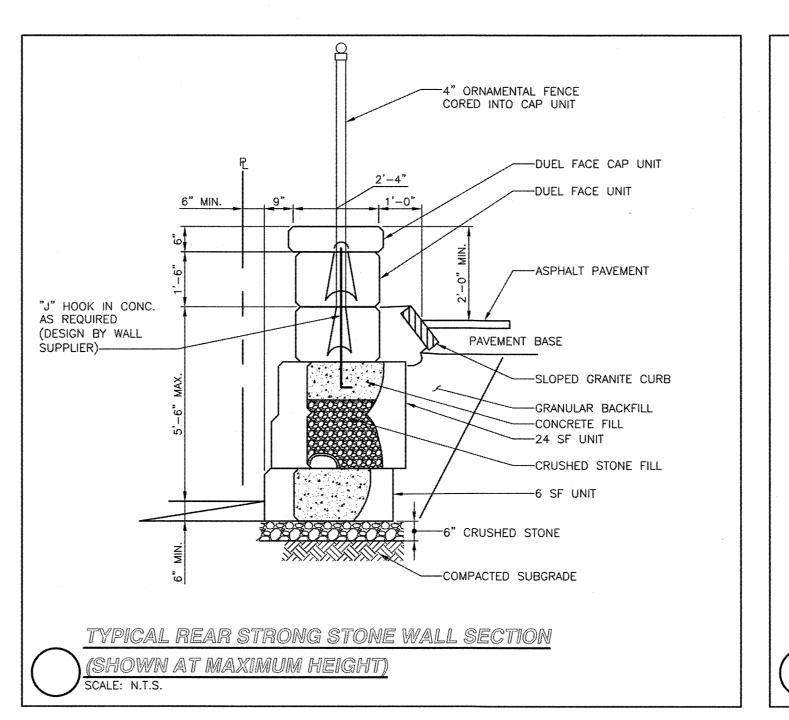
Project No.: 15099

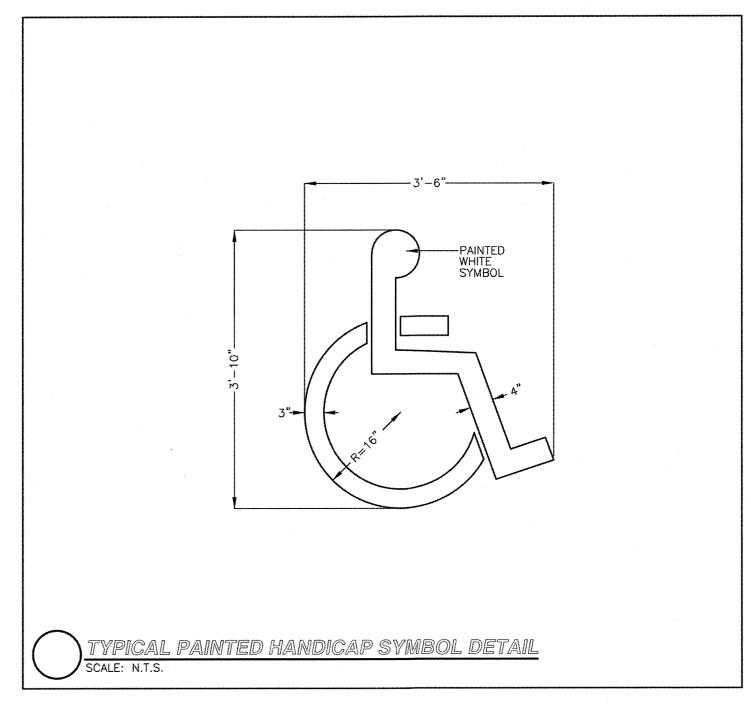


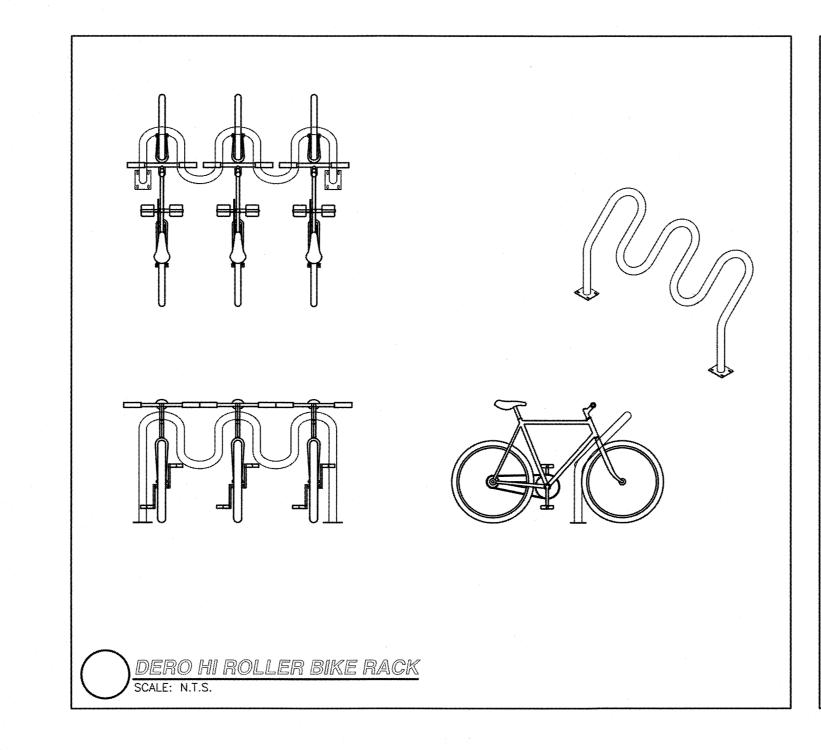


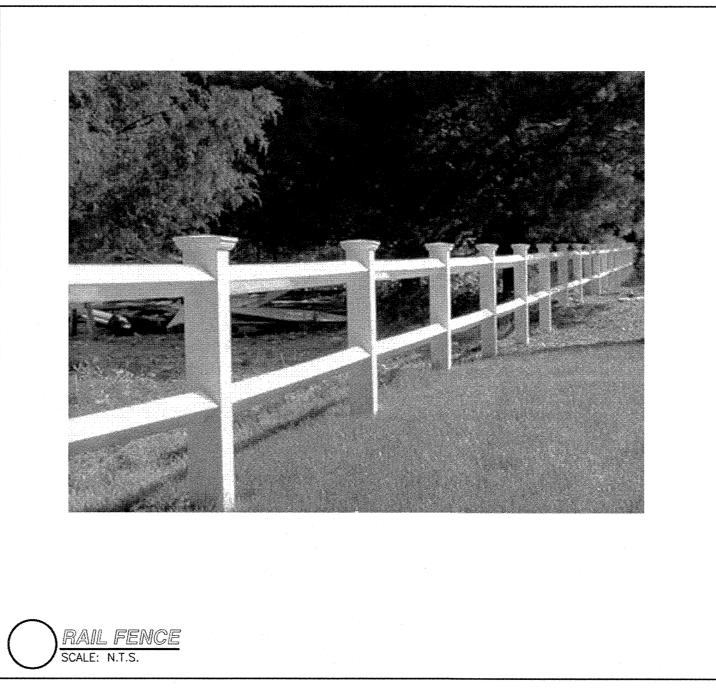


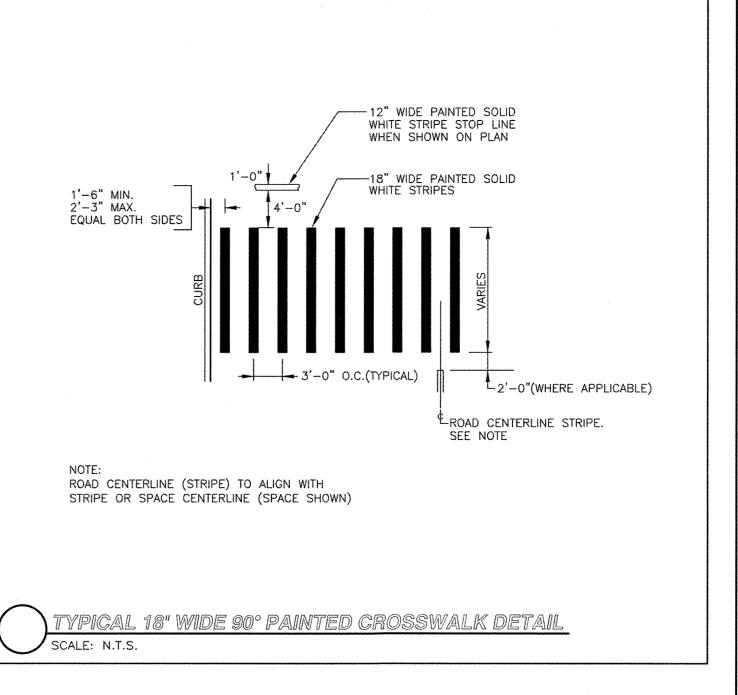


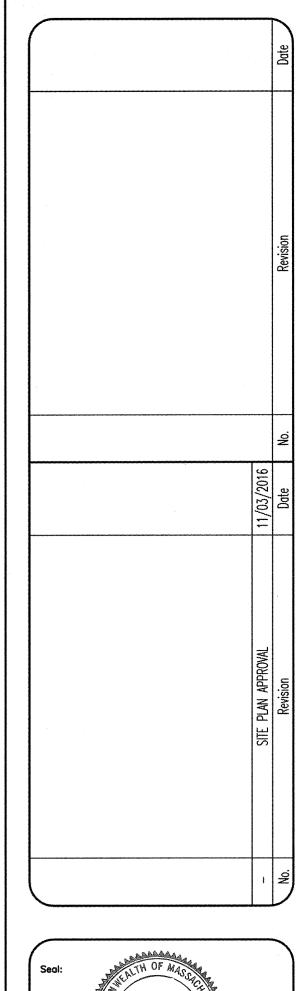


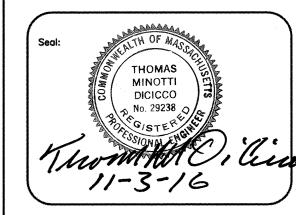












Designed by:	TMD
Drawn by:	MCR
Checked by:	TMD
Scale:	N.T.S.
Date:	05/04/2016

Prepared for:

PLAZA REALTY

DEVELOPMENT TRUST

ECHO BRIDGE OFFICE PARK 381 ELLIOT STREET, 110L NEWTON, MA 02464-1130

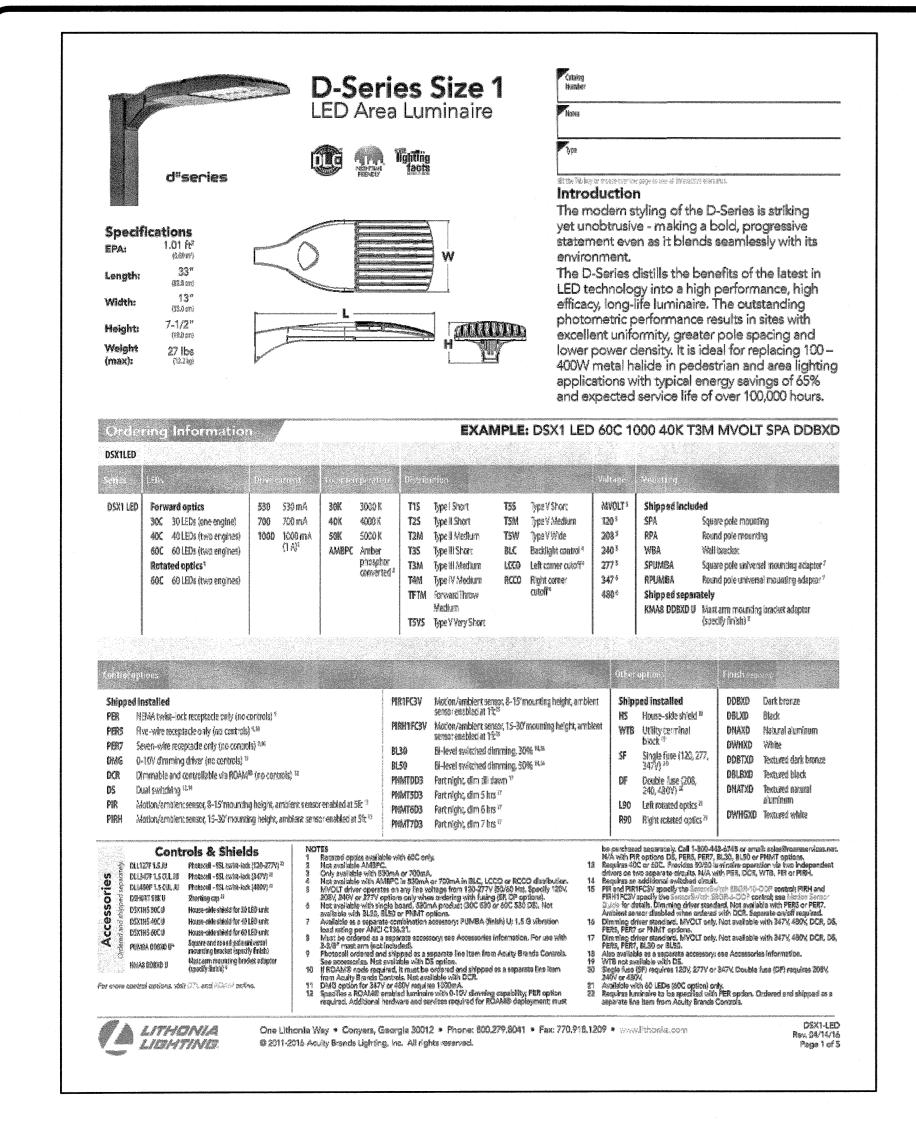
RJO'CONNELL
& ASSOCIATES, INC.
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& LAND PLANNERS
80 MONTVALE AVE
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781-279-0180
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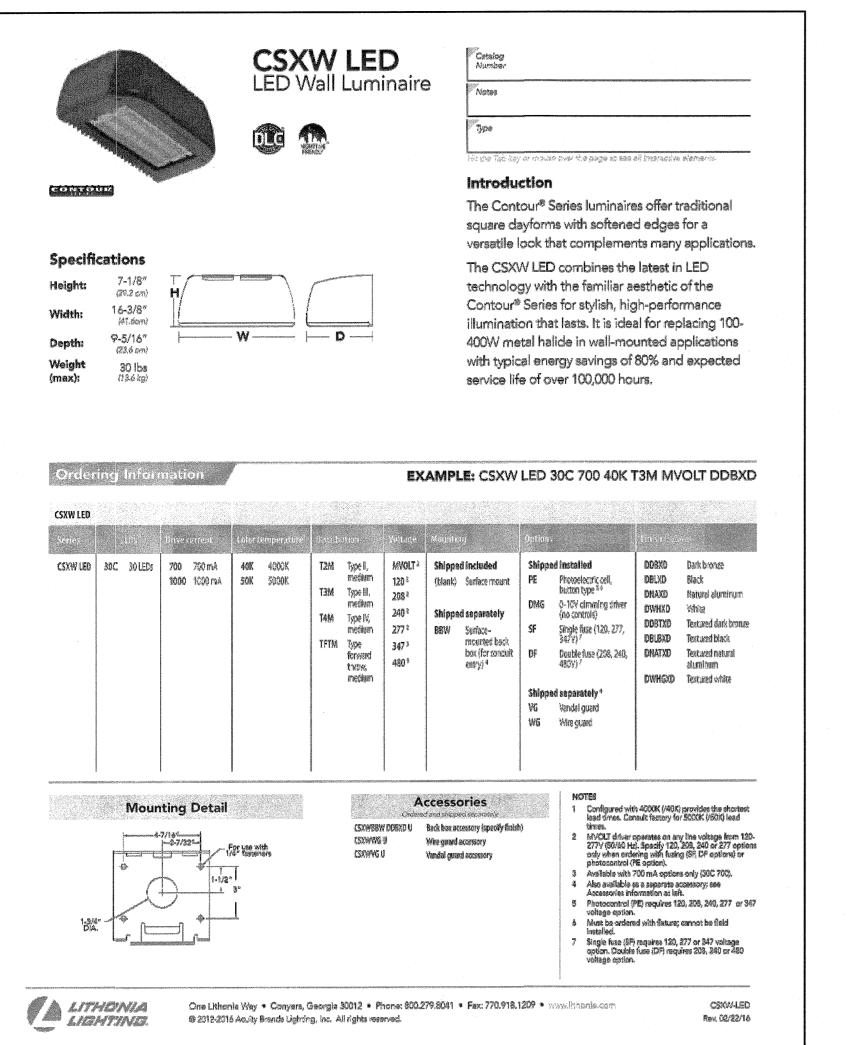
MARKETPLACE SHOPS
NEWBURYPORT, MA

PARKING AND
TRAFFIC CONTROL
DETAILS - 2

C-10

Project No.: 15099



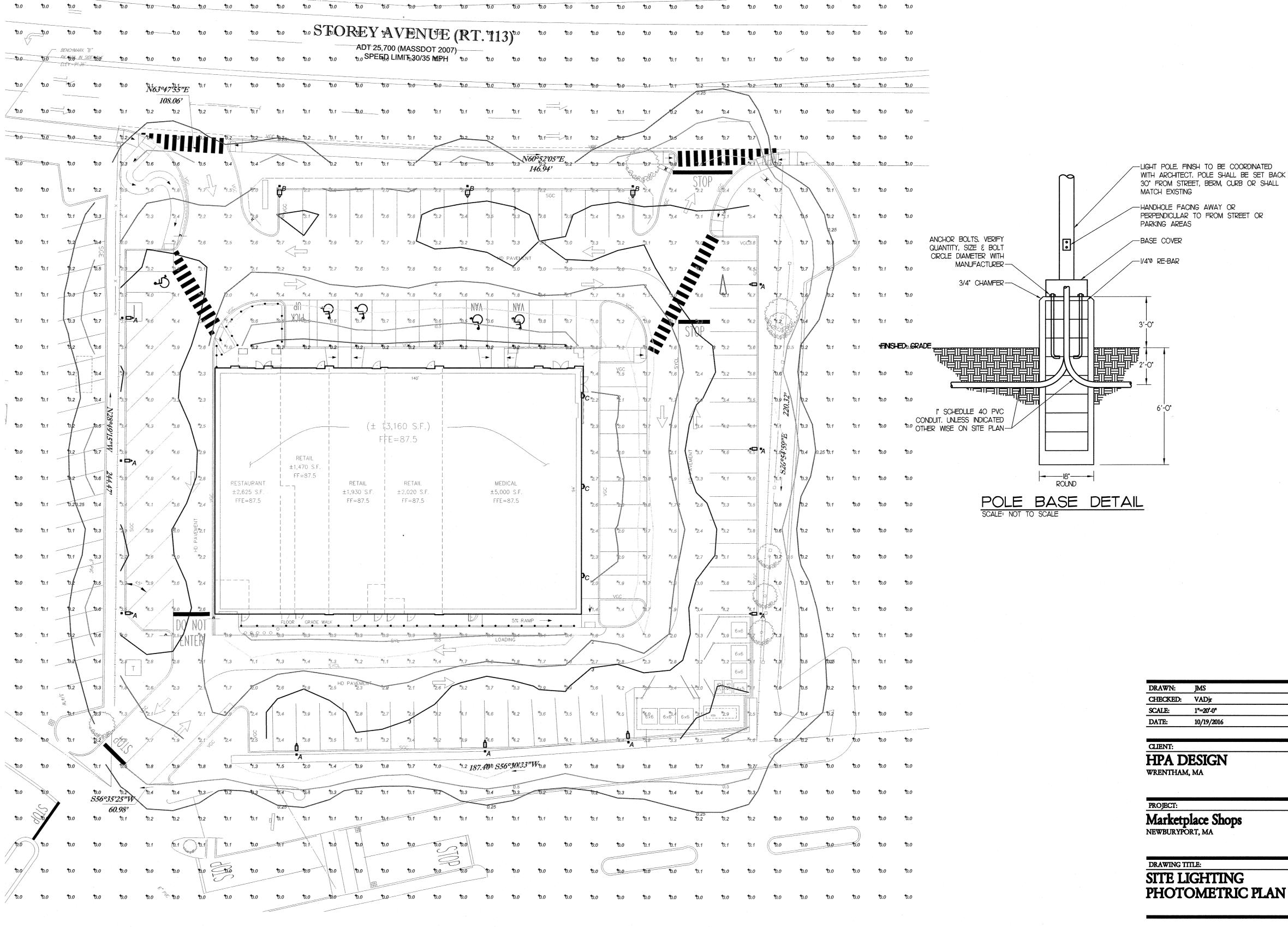


LUMIN	IAIRE S	CHEL	DULE						
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
Ĉ	Α	9	DSX1 LED 40C 700 40K T2M MVOLT HS	DSX1 LED with 40 LEDs @ 700 mA , 4000K , TYPE 2 MEDIUM OPTICS WITH HOUSE-SIDE SHIELD	LED	DSX1_LED_40 C_700_40K_T2 M_MVOLT_HS .ies	Absolute	1.00	89
Ô	В	3	DSX1 LED 60C 700 40K T3M MVOLT HS	DSX1 LED WITH (2) 30 LED LIGHT ENGINES, TYPE T3M OPTIC, 4000K, @ 700mA WITH HOUSE SIDE SHIELD	LED	DSX1_LED_60 C_700_40K_T3 M_MVOLT_HS .ies	Absolute	1.00	131
	С	3	CSXW LED 1 30B350/40K SR2	CSXW LED WITH 1 LIGHT ENGINE, 350mA DRIVER, 4000K LED, TYPE 2 OPTICS	ONE 38.3-WATT LED, AIMED DOWN POS.	CSXW_LED_1 _30B350_40K_ SR2.ies	Absolute	1.00	. 38.3

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING	×	2.5 fc	5.1 fc	0.2 fc	25.5:1	12.5:1
SPILL	+	0.1 fc	2.0 fc	0.0 fc	N/A	N/A



	REVISIONS:				
REV.:	DATE:	DESCRIPTION:			
	•	,			



SITE LIGHTING PHOTOMETRIC PLAN

PH-1

R2 RESIDENTIAL 2 ZONE STOREY AVENUE (RT. 113) ADT 25,700 (MASSDOT 2007) SPEED LIMIT 30/35 MPH 4 RK (KNOCKOUT ROSE) (PINK ROSE) (BLUSHING ROSE) N63°47'55"E — 35 HR (HOSTA) -12 BS 108.06' (BOXWOOD) NOTE: MAINTAIN BOXWOOD ----9 HH (DAYLILLYS) HEDGE AT MAX 2' TALL, TYP. -59 HH (DAYLILLYS) ——9 JB (JUNIPER) - 8 PA (ORNAMENTAL GRASS) N60052105"E 21 PA--END 4' HIGH (ORNAMENTAL BLACK CHAIN LINK FENCE GRASS) -9 IGC (INKBERRY) -3 MS (CRABAPPLE) -NOTE: LOAM AND SEED 9 IGC-(JUNIPER) -3' HIGH ALL DISTURBED AREAS HH (DAYLILLYS) (INKBERRY) RAIL FENCE DUE TO EXISTING NOTE: MAINTAIN ENTRANCE 79 SPACES INKBERRY SHRUBS -8 PA MODIFICATIONS, TYP. IN THIS AREA (ORNAMENTAL 1 MS (CRABAPPLE)--2 TC (LINDEN) AT MAX 2' TALL, TYP. GRASS) -LAWN GRASS (INKBERRY) 9 (DAYLILLYS) -PROTECT EXISTING TREES TO REMAIN THROUGHOUT CONSTRUCTION, TYP. <u>-ISOLATE</u>D ISLAND LOAM DEPTH 1'-0" TYP. W/ 2" -4' DIA. MULCH RING AROUND TRUNK BUSINESS BARK MULCH, 3" DEEP BARK ZONEMULCH IN SAUCER, TYP. (± 13,160 S.F.) "McDONALD'S" FFE=87.5 BUSINESS I ZONE "WENDY'S" RETAIL ±1,470 S.F. FF=87.5 **RESTAURANT** ±1,930 S.F. | ±2,020 S.F. ±5,000 S.F. ±2,625 S.F. FFE=87.5 (JUNIPER) (ORNAMENTAL GRASS) 29 JN-10 HH (DAYLILLYS) (JUNIPER) (INKBERRY) FLOOR GRADE WALK D DD D 5% RAMP → 1 GT ---(HONEYLOCUST) 1 MS (CRABAPPLE)--6 HH (DAYLILLYS) ----10 JB (JUNIPER) SYCL (JUNIPER) ——1 GT (HONEYLOCUST) (DAYLILLYS) PCC-- 9 IGC (INKBERRY) (PEAR) START 4' HIGH BLACK CHAIN LINK FENCE -START 4' HIGH BLACK CHAIN LINK FENCE START 4' HIGH BLACK PICKET FENCE S56°35'25"W -END 4' HIGH BLACK PICKET FENCE -14 PA 1 PCC— BUSINESS I (ORNAMENTAL ZONE (PEAR) "DEMOULAS" GRASS) SUPERMARKET

PLANT MATERIAL LIST - MARKETPLACE SHOPS; STOREY AVE. NEWBURYPORT, MA. SIZE ROOT REMARKS SYM. QTY. BOTANICAL NAME COMMON NAME DECIDUOUS AND ORNAMENTAL TREES PCC 2 PYRUS CALLERYANNA 'CHANTICLEER' CHANTICLEER PEAR 2 -2 1/2" B&B 6' HIGH BRANCHING 2 -2 1/2" B&B 6' HIGH BRANCHING TC 3 TILIA CORDATA LITTLELEAF LINDEN 2 -2 1/2" B&B SPECIMEN-STRAIGHT SINGLE STEM MS 5 MALUS SARGENTII
GT 1 GLEDITSIA TRIACANTHOS 'SKYLINE' FLOWERING CRABAPPLE 2 -2 1/2" B&B 6' HIGH BRANCHING SKYLINE HONEYLOCUST SHRUBS 18-24" CAN JB 115 JUNIPERUS H. 'BAR HARBOR' BAR HARBOR JUNIPER 18-24" JUNIPERUS PROCUMBENS 'NANA' CAN JN 29 PROCUMBENS JUNIPER BUXUS SEMPERVIRENS 'NEWPORT BLUE' NEWPORT BLUE BOXWOOD 2 -2 1/2' CAN CLIP TO HEDGE BS 12 DWARF INKBERRY IGC 42 ILEX G. 'COMPACTA' CAN CAN RK 4 ROSA 'KNOCKOUT' KNOCKOUT ROSE RB 2 ROSA 'BLUSHING' CAN BLUSHING ROSE RP 2 ROSA 'PINK' PINK ROSE CAN PERENNIALS AND ORNAMENTAL GRASSES HH 116 HEMEROCALLIS 'HAPPY RETURNS' GAL YELLOW HAPPY RETRUNS DAYLILLIES 1 GAL HOSTA 'ROYAL STANDARD' ROYAL STANDARD HOSTA 1 GAL CAN GREEN PA 57 DWARF FOUNTAIN GRASS POT PENNISETUM ALOPECUROIDES 'HAMELIN'

GRAPHIC LEGEND

PROTECT EXISTING TREES TO REMAIN, TYP. DECIDUOUS SHADE TREES (DRIP OR MIST HEAD IRRIGATION)

(DRIP OR MIST HEAD IRRIGATION) DECIDUOUS SHRUBS (DRIP OR MIST HEAD IRRIGATION) PERENNIALS / ORNAMENTAL GRASSES

EVERGREEN SHRUBS

(DRIP OR MIST HEAD IRRIGATION) SEEDED LAWN (SPRAY-HEAD IRRIGATION)

3' HIGH SPLIT RAIL FENCE 4' HIGH BLACK PICKET FENCE

4' HIGH BLACK CHAIN LINK FENCE

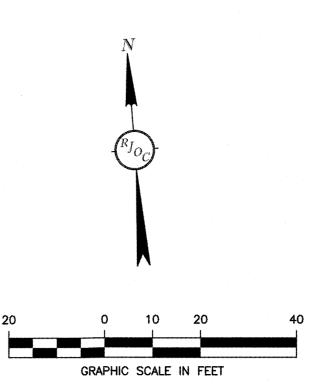
GENERAL NOTES:

1. CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING TO EXAMINE EXISTING CONDITIONS FOR THEMSELVES. CONTRACTOR TO FAMILIARIZE THEMSELVES W/ DESIGN DOCUMENTS NOTES & DETAILS AND THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, CURRENT EDITION.

- 2. CONTRACTOR SHALL NOTIFY / COORDINATE WITH THE CITY OF NEWBURYPORT (48) HOURS (MIN.) PRIOR TO PLANT MATERIAL INSTALLATION.
- 3. CONTRACTOR SHALL COORDINATE WITH THE CITY OF NEWBURYPORT.
- 4. PRIOR TO THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL CONTACT DIG SAFE @ 1-888-344-7233 TO HAVE THE EXISTING UTILITIES MARKED.
- 5. All contractors shall inspect site prior to bidding to verify existing conditions for themselves.
- 6. The Contractor shall supply all plant material in quantities sufficient to complete the planting shown on the drawings. See specification.
- 7. All plant material shall conform to the guidelines established by "The American Standard for Nursery Stock", published by the American Association of Nurserymen, Inc. ANSI Z60.1-Current
- 8. All plants to be balled in burlap or container grown. No plastic burlap. No container grown trees.
- 9. All plants to be approved by the Landscape Architect. 10. Stake location of all proposed plant material for approval of Landscape Architect prior to commencement of planting.
- 11. The landscape contractor shall guarantee all plant materials for one (1) full year from date of
- 12. Heal all construction scars with naturalized grass, lawn or mulch as indicated by drawings and/
- or as directed by Landscape Architect. 13. "Dry Roots" shall be added to all new tree planting pits. All new loam shall be tested and
- amended as stated in the loam report. Provided by loam supplier.
- 14. Landscape Contractor shall submit a watering schedule program for the (60) day maintenance period for review by the Landscape Architect & to Owner for all proposed plant material.
- 15. Protect existing plant material within construction limits. Provide watering program for all proposed plant material during construction.

GENERAL IRRIGATION NOTES:

- The design/build irrigation sub-contractor shall provide a complete system for the irrigation areas shown on the plan, which includes new and existing transplanted plant materials. Shop drawings shall be provided at a suitable scale to illustrate that the designated plant materials will be irrigated by either spray heads, mist heads or drip irrigation tubing.
- 2. Irrigation to be coordinated with General Contractor to locate the necessary PVC sleeving to complete irrigation program.
- 3. All lawn areas shall be spray head irrigated. The heads shall be located for head to head
- coverage with absolutely no over spray onto the pavement. 4. All trees, shrubs and ground cover shall be drip irrigated / irrigated with shrub mist heads.
- 5. The irrigation layout and all of the components shall conform to the specifications. The specifications call for shop drawings to be submitted for approval, as well as conformance to the materials specified.
- 6. The Contractor shall be extremely careful during the installation process not to disturb new or existing plant materials. The Contractor is to coordinate his work with other sub-contractors. Sleeving under pavements must be available and in the proper location prior to paving.
- 7. The irrigation Contractor shall conform to any local codes or ordinances that may be required to complete the work.
- 8. This irrigation alternate shall include the cost of connecting to either the building water mains
- down stream of the back flow preventer of the irrigation well.
- 9. The irrigation contractor shall test water source for water quality including minerals that may cause staining of concrete and granite pavement and curbs.
- 10. Irrigation Contractor shall coordinate with the City of Newburyport for sewer abatement meter requirements, model type and locations prior to shop drawing preparation.



LANDSCAPE NOTES:

- LOAM DEPTHS SHALL BE AS FOLLOWS:
- A. LAWN AREAS 6" ROLLED THICKNESS
- AREA WITH 2" MULCH. C. ISOLATED PLANTED ISLANDS - 1' - 0" LOAM DEPTH
- LAWN GRASS (VALLEY GREEN SEED, LTD. WILMINGTON, MA.) LANDSCAPE/UTILITY MIXTURE FOR SUN/SHADE:

ENCHANTED PERENNIAL RYEGRASS CREEPING RED FESCUE GOLDRUSH KENTUCKY BLUEGRASS

B. PLANT BEDS - 1 -0" LOAM DEPTH IN THE PLANTED

Designed by: Drawn by: WJF Checked by: 1"=20' Scale: Date: 05/04/2016

PLAZA REALTY **DEVELOPMENT TRUST**

ECHO BRIDGE OFFICE PARK 381 ELLIOT STREET, 110L NEWTON, MA 02464-1130

WILLIAM FLEMING ASSOCIATES LANDSCAPE ARCHITECTURE

> 375 MAIN ST. STONEHAM, MA. 02180 T 781 488 3088 E wfa@williamfleming.com

RJO'CONNELL & Associates, Inc. CIVIL ENGINEERS, SURVEYORS

& LAND PLANNERS 80 MONTVALE AVE STONEHAM, MA 02180 781-279-0180 FAX: 781-279-0173

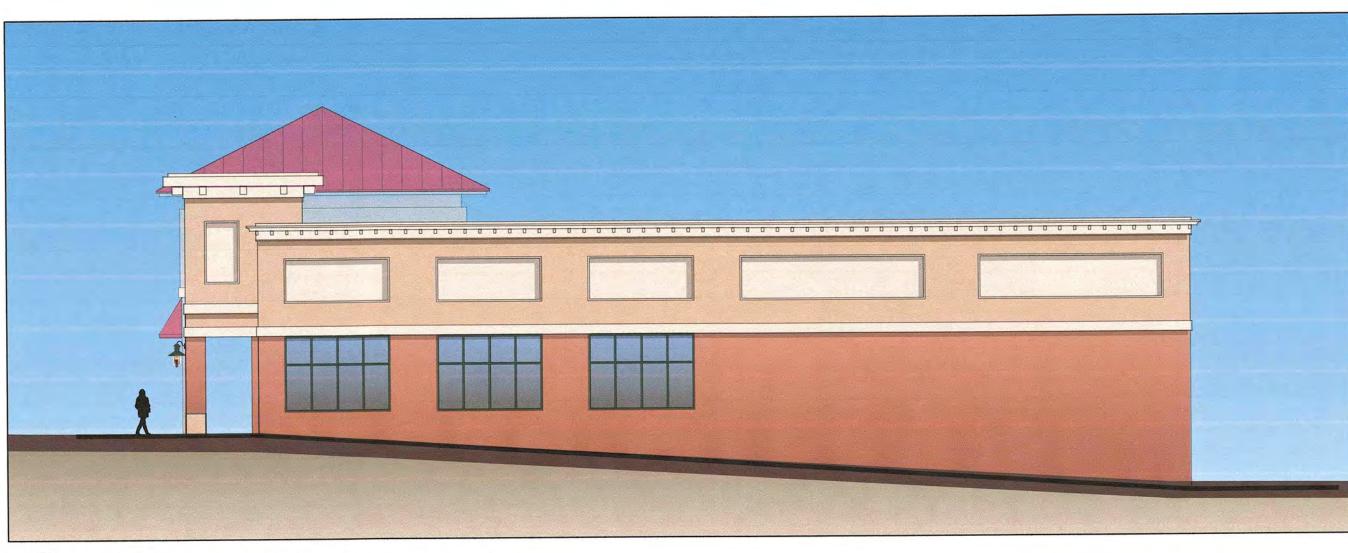
MARKETPLACE SHOPS NEWBURYPORT, MA

Drawing Name: LANDSCAPE **PLAN**



MARKETPLACE SHOPS TENANT TENANT TENANT TENANT TENANT

REAR ELEVATIONS (COLOR RENDERING)



RIGHT SIDE ELEVATION (COLOR RENDERING)

TENANT LEFT SIDE ELEVATION (COLOR RENDERING)

