

LOCUS PLAN SCALE: 1"=250'±

DATE SHEET SHEET DATE REVISED NUMBER DESCRIPTION 11/10/2023 07/14/2023 **COVER SHEET** 04/13/2023 11/08/2023 **EXISTING CONDITIONS SURVEY DEMOLITION & EROSION CONTROL PLAN** 07/14/2023 11/10/2023 07/14/2023 11/10/2023 SITE PLAN 11/10/2023 GRADING & DRAINAGE PLAN 07/14/2023 UTILITY PLAN 07/14/2023 11/10/2023 07/14/2023 11/10/2023 CONSTRUCTION DETAILS CONSTRUCTION DETAILS 07/14/2023 11/10/2023 07/14/2023 11/10/2023 CONSTRUCTION DETAILS CONSTRUCTION DETAILS 07/14/2023 11/10/2023 10 07/14/2023 11/10/2023 CONSTRUCTION DETAILS 07/14/2023 11/10/2023 LANDSCAPE PLAN 12 07/14/2023 11/10/2023 13 LANDSCAPE DETAILS 08/08/2023 LIGHTING PLAN CAR WASH SIGN DETAILS 11/09/2023 APPROVAL NOT REQUIRED PLAN 07/13/2023 COVER PAGE (ARCHITECTURALS) 08/22/2023 T0.01 ARCHITECTURAL SITE PLAN 07/18/2023 A0.01 FLOOR PLANS 07/18/2023 07/18/2023 FLOOR PLANS A1.02A1.03 **EXTERIOR ELEVATIONS** 07/18/2023 07/18/2023 **EXTERIOR ELEVATIONS** A1.04

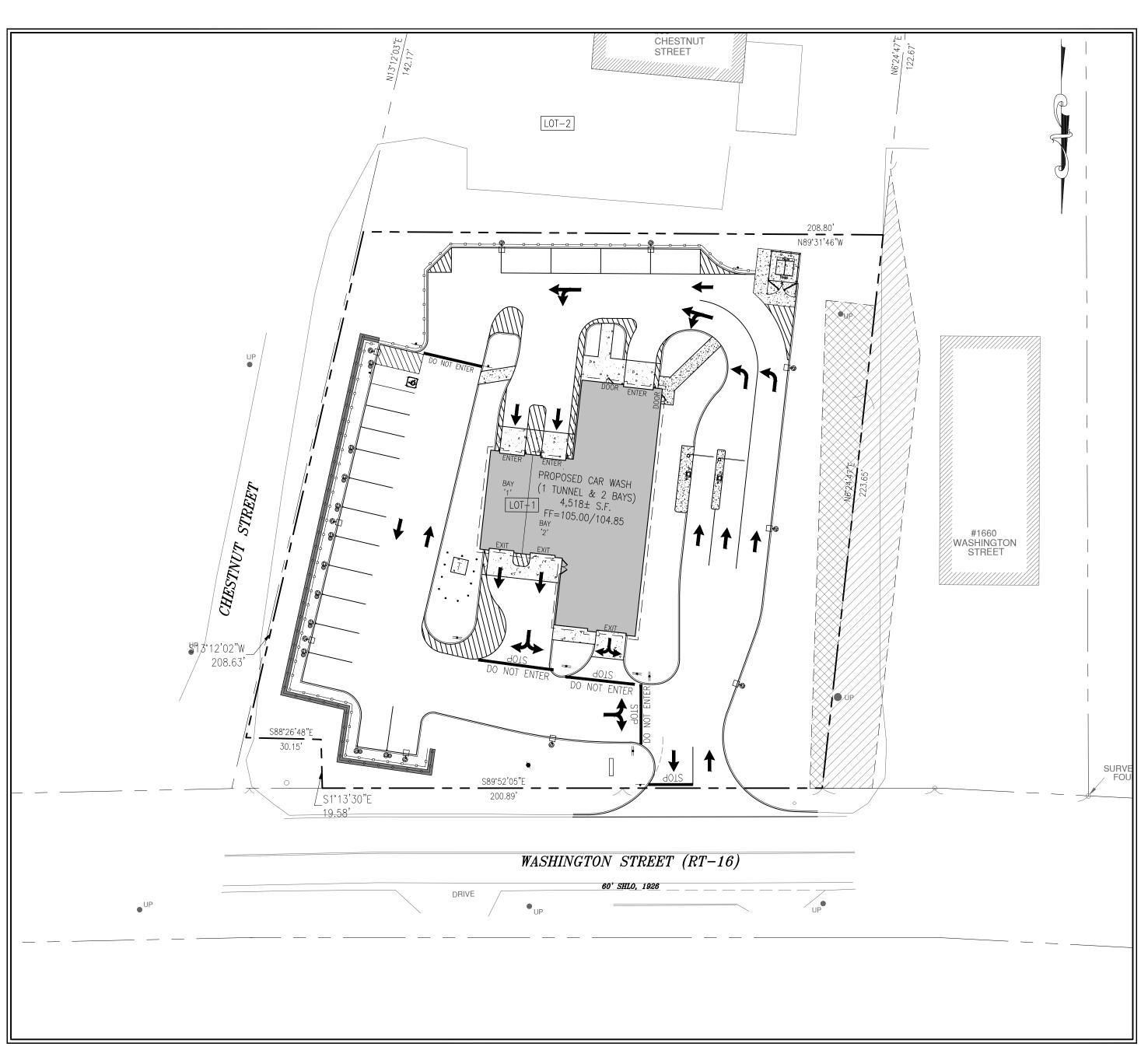
SUBMITTED UNDER SEPARATE COVER

DATE	DATE	SHEET	SHEET
	REVISED	NUMBER	DESCRIPTION
06/12/2023	-	1-2	SUBSURFACE SEWERAGE DISPOSAL SYSTEM

SITE PLAN SET

FOR A PROPOSED CAR WASH

1650 WASHINGTON STREET HOLLISTON, MA 01746



OVERALL LAYOUT PLAN SCALE: 1"=30'

SIGNATURE OF PLANNING BOARD MEMBEF

PREPARED BY:

JROUP, LLC

21 HIGH STREET SUITE 207 NORTH ANDOVER, MA 01845 www.cdgengineering.com p: 978-794-5400 f: 978-965-3971 CONTACT: PHILIP HENRY, P.E.

PREPARED FOR:

1650 WASHINGTON STREET, LLC 3 MICHAUD DRIVE FRAMINGHAM, MA 01701

PROPERTY:

1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746

PORTIONS OF ASSESSORS MAP 5, LOT 4-28.1 (1650 WASHINGTON ST) ASSESSORS MAP 5, LOT 4-28.2 (35 CHESTNUT ST)

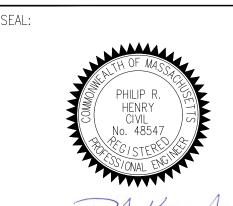
OWNER OF RECORD:

1650 WASHINGTON STREET 1650 REALTY NOMINEE TRUST 11 SAWIN STREET SHERBORN, MA 01770

35 CHESTNUT STREET CHESTNUT STREET NOMINEE TRUST 11 SAWIN STREET SHERBORN, MA 01770

 $(NOT\ FOR\ CONSTRUCTION$

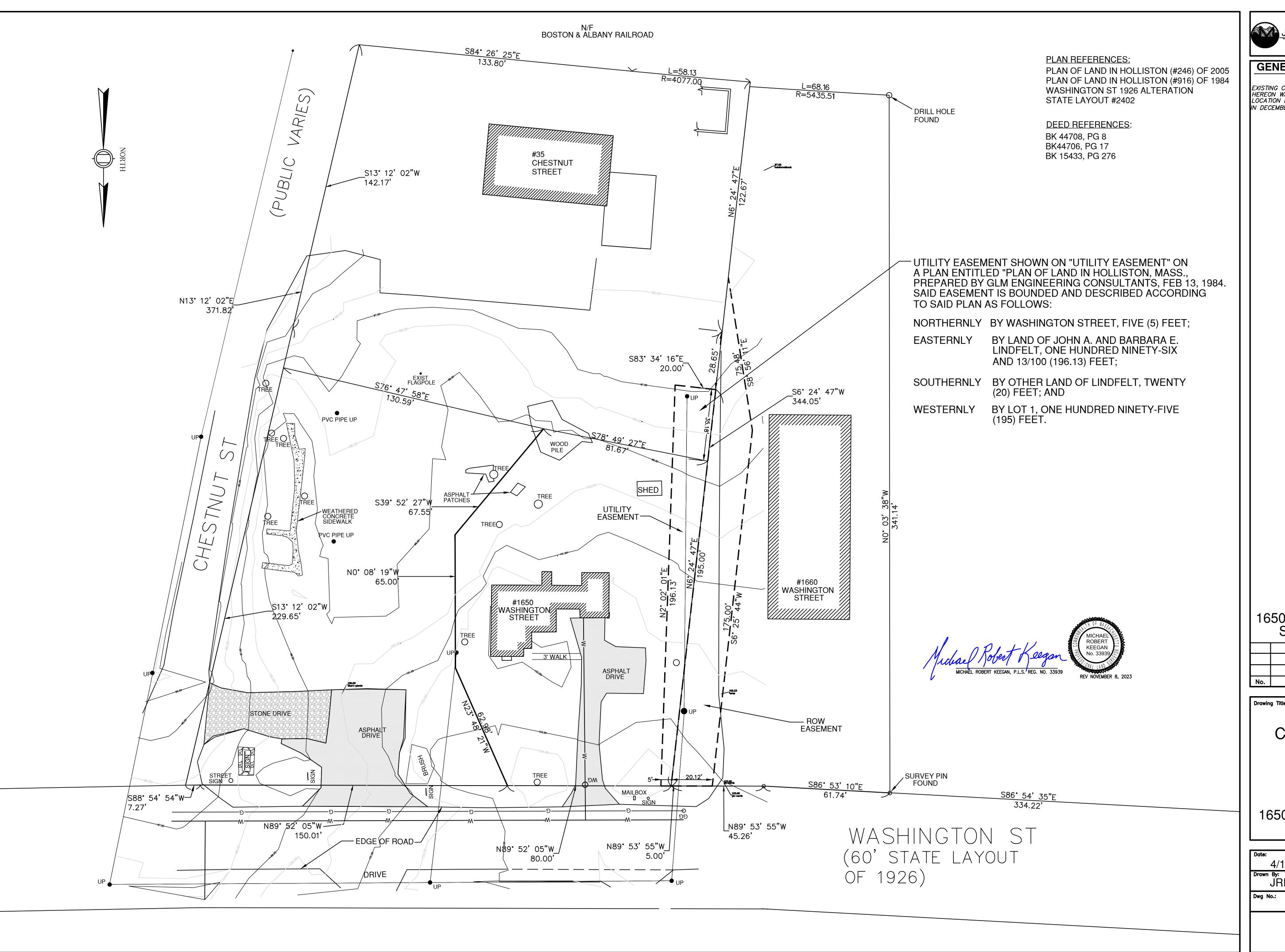
TOWN OF HOLLISTON



PHILIP R. HENRY, P.E.

COVER SHEET

CDG PROJECT #:





GENERAL NOTES:

EXISTING CONDITIONS SURVEY AS SHOWN HEREON WAS DERIVED FROM ACTUAL FIELD LOCATION BY J2M CONSULTING ASSOC. IN DECEMBER, 2022.

OWNER 1650 WASHINGTON STREET, LLC

Revision/Issue	Date
,	

EXISTING CONDITIONS PLAN

1650 WASHINGTON STREET

4/13/23 Drawn By: Chk'd	1"=20'
01111	і Ву:
Dwg No.:	

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- 1. THIS SITE IS SUBJECT TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY. SITE OPERATORS SHALL CONFORM TO MEET THE CRITERIA FOR A NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- ADAPTATION TO ACTUAL FIELD CONDITIONS MAY WARRANT VARIATIONS FROM WHAT IS SHOWN ON THESE PLANS FOR EROSION CONTROLS IN ORDER TO MAXIMIZE THE EFFECTIVENESS OF THE CONTROLS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ALL CONSTRUCTION RELATED CONDITIONS OUTLINED IN THE APPROVALS IN ADDITION TO THE ITEMS OUTLINED IN THESE CONSTRUCTION DOCUMENTS. THE PLANS INCLUDED HEREIN ARE PROVIDED AS A GUIDANCE DOCUMENT TO ASSIST IN THE IMPLEMENTATION OF EROSION/SEDIMENTATION CONTROLS AND STABILIZATION OF THE SITE. ADAPTATION TO ACTUAL FIELD CONDITIONS MAY WARRANT VARIATIONS FROM WHAT IS SHOWN ON THESE PLANS TO MAXIMIZE THE EFFECTIVENESS OF THE CONTROLS.
- 4. THE CONTRACTOR SHALL ADHERE TO PROCEDURES OUTLINED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE EPA NPDES CONSTRUCTION GENERAL PERMIT REQUIREMENTS.
- 5. IN ACCORDANCE WITH THE NPDES CONSTRUCTION GENERAL PERMIT AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP), EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST EVERY 14 DAYS AND WITHIN 24 HOURS OF A 0.25" STORM. REPORTS DOCUMENTING THE RESULTS OF EACH INSPECTION AND ANY CORRECTIVE ACTIONS SHALL BE KEPT ON-FILE WITH THE SWPPP.
- 6. PROPOSED EROSION AND SEDIMENTATION CONTROL MEASURES WILL INCLUDE SILT SOCKS, CRUSHED STONE, RIPRAP, LOAM/SEED, HYDROSEEDING, MULCHING, EROSION CONTROL MATTING, DIVERSION BERMS, AND SEDIMENTATION BASINS AS FURTHER DESCRIBED HEREIN.
- 7. SILT SOCKS WILL BE USED FOR THE PERIMETER EROSION CONTROL BARRIER AS SHOWN ON THIS PLAN AND ELSEWHERE AS CONDITIONS WARRANT. SILT SACKS WILL BE USED TO PROTECT OFFLINE CATCH BASINS (PRIOR TO BINDER) AND ELSEWHERE AS CONDITIONS WARRANT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A REASONABLE STOCK OF SILT SOCKS ON SITE TO BE ABLE TO SUPPLEMENT OR MAKE REPAIRS AS NECESSARY.
- 8. LOAMING AND SEEDING OR HYDROSEEDING WILL BE USED AS A PERMANENT STABILIZATION MEASURE FOR ALL REVEGETATED AREAS OF THE SITE.
- 9. ALL PROPOSED SLOPES 3:1 AND STEEPER SHALL BE STABILIZED WITH AN EROSION CONTROL MATTING AND SHALL BE HYDROSEEDED.
- 10. MULCHING MAY BE USED TO REINFORCE SEEDED AREAS WHERE EROSION CONTROL MATTING IS NOT REQUIRED OR WARRANTED, BUT WHERE SOME PROTECTION IS WARRANTED. MULCHING MAY ALSO BE USED TO STABILIZE AREAS WHERE CONSTRUCTION ACTIVITIES WILL TEMPORARILY CEASE FOR MORE THAN 14 DAYS.
- 11. SEDIMENTATION BASINS SHALL BE USED THROUGHOUT THE SITE TO TREAT RUNOFF. DIVERSION BERMS SHALL BE UTILIZED TO DIVERT UNTREATED STORMWATER TO THE SEDIMENTATION BASINS. SEDIMENTATION BASINS AND DIVERSION BERMS SHALL BE ADDED, REMOVED, AND ADJUSTED AS THE SITE EVOLVES THROUGHOUT THE CONSTRUCTION PROCESS.
- 12. UPON CONVERTING ANY TEMPORARY SEDIMENTATION BASINS TO PERMANENT DETENTION/INFILTRATION BASINS, THE BASINS SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT TO ENSURE THAT THE VOLUMETRIC AND INFILTRATION DESIGN CAPACITIES ARE MAINTAINED.
- 13. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, IN ACCORDANCE WITH THE NPDES CONSTRUCTION GENERAL PERMIT. STABILIZATION MEASURES SHALL BE IMPLEMENTED NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS IN WHICH CASE STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 14. EROSION AND SEDIMENTATION CONTROLS WILL BE REQUIRED TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT TO ENSURE THAT THEY FUNCTION AS INTENDED. DEFICIENCIES WILL BE CORRECTED BY CLEANING. REPAIRING, OR REPLACING THE AFFECTED CONTROL(S) OR PORTION(S) THEREOF TO REESTABLISH PROPER FUNCTIONING AS QUICKLY AS POSSIBLE. SEDIMENTATION CONTROLS WILL BE REQUIRED TO BE CLEANED OR REPLACED WHEN THE ACCUMULATED SEDIMENT EXCEEDS 50 PERCENT OF THE DESIGN CAPACITY OF THE CONTROL. ANY OFF-SITE ACCUMULATIONS OF SEDIMENT WILL BE REQUIRED TO BE REMOVED AS QUICKLY AS POSSIBLE IN A MANNER THAT MINIMIZES ADDITIONAL DISTURBANCE.
- 15. EROSION CONTROL BARRIER (WHERE SHOWN) REPRESENTS THE LIMIT OF WORK. WHERE NO EROSION CONTROL BARRIER IS REQUIRED (SUCH AS UPSLOPE AREAS), A LIMIT OF WORK LINE HAS BEEN SHOWN. WHERE NO EROSION CONTROL BARRIER IS REQUIRED, THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD BY A VISUAL BARRIER SUCH AS TEMPORARY CONSTRUCTION FENCING IN ORDER TO KEEP CONSTRUCTION ACTIVITIES OUT OF THOSE
- 16. THE PROPOSED ONSITE DRAINAGE SYSTEM SHALL BE INSTALLED AS SOON AS PRACTICABLE. ALL EXISTING AND PROPOSED CATCH BASIN INLETS SHALL BE PROTECTED WITH A SILT SACK (SEE DETAIL).
- 17. DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT BASIN OR OTHER SETTLING AREA TO ALLOW FOR SUFFICIENT SETTLING PRIOR TO DISCHARGE.
- 18. DUST SHALL BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO LOCAL, STATE AND FEDERAL STANDARDS.
- 19. ABUTTING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS FROM THIS PROJECT AT ALL TIMES. WORK ON ABUTTING PROPERTY SHALL REQUIRE WRITTEN AUTHORIZATION FROM THE OWNER PRIOR TO ANY LAND DISTURBANCE.
- 20. THE EROSION CONTROL MEASURES ILLUSTRATED IN THIS PLAN SET SHALL BE THE MINIMUM REQUIRED CONTROLS IMPLEMENTED.
- 21. STOCKPILING LOCATIONS SHALL BE FIELD DETERMINED AND SHALL NOT LIE WITHIN THE 100-FOOT WETLAND BUFFER. DIVERSION BERMS AND EROSION CONTROL BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STOCKPILES IN

SITE & DEMOLITION NOTES

- THE LOCATION AND ELEVATION OF EXISTING UTILITIES AND STRUCTURES SHOWN ON THESE PLANS ARE BASED ON MEASUREMENTS TAKEN IN THE FIELD AND DISCOVERED RECORDS FROM VARIOUS UTILITY COMPANIES AND/OR FROM THE MUNICIPALITY. THIS INFORMATION SHALL NOT BE CONSIDERED EXACT AND THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOTIFY 'DIG SAFE' (811) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXISTING UTILITY MARK OUT LOCATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF EXISTING UTILITY LOCATIONS CONFLICT WITH THE PROPOSED DEVELOPMENT PROGRAM SO THAT A REMEDIAL ACTION CAN TAKE PLACE PRIOR TO ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ALL EXISTING UTILITIES AS A RESULT OF THE PROPOSED DEVELOPMENT.
- EXISTING BASE INFORMATION INCLUDING PROPERTY LINE, STRUCTURES, UTILITIES AND TOPOGRAPHY ARE TAKEN FROM EXISTING CONDITIONS PLAN, PREPARED BY J2M CONSULTING ASSOCIATES, LLC.
- ELEVATIONS SHOWN ARE BASED ON THE DATUM REFERENCED ON THE EXISTING CONDITIONS PLAN.
- . EXISTING STRUCTURES MAY BE UNDER A DEMO DELAY, THEREFORE, THESE STRUCTURES SHALL NOT BE RAZED ON OR BEFORE THE END OF THE DEMO DELAY
- 5. ALL WORK MUST BE INSPECTED PER TOWN REQUIREMENTS, CONTRACTOR SHALL CONTACT THE TOWN BUILDING DEPARTMENT PRIOR TO THE START OF WORK.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING ALL CONSTRUCTION RELATED CONDITIONS OUTLINED IN THE APPROVALS IN ADDITION TO THE ITEMS OUTLINED IN THESE CONSTRUCTION DOCUMENTS.
- . THE LIMIT OF WORK FOR THIS PROJECT SHALL BE SHOWN ON THE PLANS AS SAWCUT LINES, EROSION CONTROL BARRIER LINES, AND/OR LIMIT OF WORK LINES AND SHALL BE MARKED IN THE FIELD PRIOR TO CONSTRUCTION. EXISTING FEATURES OUTSIDE LIMIT OF WORK LINE ARE TO REMAIN UNLESS OTHERWISE SPECIFIED AND THE EXISTING FEATURES WITHIN LIMIT OF WORK LINE SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED.
- 3. THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- 9. ALL DISTURBED OFF-SITE AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION
- 10. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PER THE DETAIL WHEREVER CONSTRUCTION ACCESS EXISTS. PAVED AREAS SHALL BE KEPT CLEAN AT ALL TIMES.
- . PEDESTRIAN AND VEHICULAR ACCESS WITHIN THE PUBLIC RIGHT-OF-WAY AND SHARED ACCESS DRIVE SHALL BE KEPT IN GOOD CONDITION THROUGHOUT
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS AND UTILITY CONNECTION/DISCONNECTION FEES RELATED TO THE PROJECT. CONTRACTOR SHALL NOTIFY AND COORDINATE ALL UTILITY WORK WITH THE APPLICABLE UTILITY COMPANIES AND/OR LOCAL DEPARTMENTS. ALL PERMITS SHALL BE KEPT WITHIN THE TRAILER AND CLEARLY VISIBLE.
- 13. THE OFFSITE DISPOSAL OF ALL DEMOLISHED MATERIALS SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES.
- 14. FILL MATERIAL(S) SHALL NOT CONTAIN HAZARDOUS MATERIALS.
- 15. CONSTRUCTION DUMPSTERS SHALL BE LOCATED ON A STABLE SURFACE, PROPERLY MAINTAINED, AND EMPTIED ON A REGULAR BASIS.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR THE GENERAL UPKEEP OF THE SITE DURING THE CONSTRUCTION PROCESS.
- 17. ALL WALLS GREATER THAN 4 FEET EXPOSED HEIGHT SHALL BE DESIGNED BY A STRUCTURAL ENGINEER, IF APPLICABLE.
- 18. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM AMOUNT OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- 19. REFUELING WILL BE DONE VIA FUEL TRUCK AND ANY WORK ASSOCIATED WITH THE MAINTENANCE OF CONSTRUCTION EQUIPMENT TO BE PERFORMED OFFSITE.
- 20. THE AREAS OF CONSTRUCTION SHALL REMAIN IN A STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROLS SHALL BE CHECKED

- 22. CONTRACTOR SHALL NOT STOCKPILE OR LOCATE DUMPSTERS WITHIN WETLAND RESOURCE AREA BUFFER ZONES IF PRESENT ON SITE.
- 23. CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, AND EQUIPMENT AND RESTORE OR REPAIR ANY DAMAGE THAT OCCURS TO THE SITE RESULTING FROM CONSTRUCTION ACTIVITY.
- TANKS, PAVEMANT, BITUMINOUS CURBING, CONCRETE, VEGETATION, SURPLUS MATERIAL, AND SITE RUBBLE OFF-SITE IN ACCORDANCE WITH LOCAL ORDINANCES, THE MASSACHUSETTS WETLAND PROTECTION ACT, CHAPTER 131 SECTION 40, G.L., AND ALL APPLICABLE STATE AND FEDERAL ENVIRONMENTAL
- 25. CONTRACTOR SHALL ADHERE TO APPLICABLE PRE-BLASTING & BLASTING PROTOCOLS, INCLUDING DOT REGULATIONS IF ROCK IS ENCOUNTERED DURING

AT THIS	TIME AN) MAINTAINED	OR	REINFORCED	IF	NECESSARY.	

21. CONTRACTOR	SHALL COORDINA	ATE THE LOC	CATION OF	STAGING AREAS	AND JOB
TRAILER WITH	H THE ENGINEER A	AND OWNER	PRIOR TO	MOBILIZATION O	F ANY
EQUIPMENT (ON THE SITE.				

24. DISPOSE OF ANY AND ALL DEMOLISHED BUILDING MATERIALS, STOARAGE

		TEST PIT DA	<u>1A</u>
	TEST PIT	ESHGW DEPTH	ESHGW ELEVATION
	TP-1	N/A – REFUSAL	N/A – REFUSAL
	TP-2	N/A – REFUSAL	N/A - REFUSAL
	TP-3	52"	94.4±
	TP-4	52"	94.8±
	TP-5	32"	94.3±
- 1			

ACCORDANCE WITH THE PLAN AND DETAILS.

CONSTRUCTION SEQUENCE.

ANY LAND DISTURBANCE.

COVERED TO PREVENT WASHOUT.

36. TOTAL APPROXIMATE LAND DISTURBANCE IS 1± ACRE.

22. ESTIMATED STABILIZED AREA AS SHOWN ON THE SEQUENCING PLANS PROVIDED HEREIN REPRESENTS THE APPROXIMATE AREA THAT WILL BE STABILIZED (EITHER TEMPORARILY OR PERMANENTLY) BY THE END OF THE

25. PROVIDE AND STORE AUXILIARY DEWATERING EQUIPMENT ON THE SITE IN THE EVENT OF BREAKDOWN. PROVIDE NON-WOVEN FILTER FABRIC SHALL BE SPECIFICALLY DESIGNED FOR SUBSURFACE DRAINAGE APPLICATIONS.

CONTRACTOR WILL BE REQUIRED TO KEEP A REASONABLE STOCK OF CRUSHED STONE AND RIPRAP ON SITE TO BE ABLE TO SUPPLEMENT OR MAKE REPAIRS AS NECESSARY.

OR DAMAGE TO THE WORK COMPLETED OR IN PROGRESS. DO NOT DISCHARGE WATER INTO ANY SANITARY SEWER SYSTEM. SILTATION BARRIERS SHALL BE UTILIZED IF NECESSARY.

28. THE CONTRACTOR SHALL REPAIR ANY DAMAGE RESULTING FROM THE FAILURE OF THE DEWATERING OPERATIONS OR FROM FAILURE TO MAINTAIN ALL AREAS OF WORK IN SUITABLE DRY CONDITION.

31. THE PROPOSED ONSITE DRAINAGE SYSTEM SHALL BE INSTALLED AS SOON AS PRACTICABLE. ALL EXISTING AND PROPOSED CATCH BASIN INLETS SHALL BE PROTECTED WITH A SILT SACK (SEE DETAIL).

HANDLE THE HIGH CONCENTRATIONS OF SEDIMENTS TYPICALLY FOUND IN CONSTRUCTION RUNOFF, AND THUS MUST BE PROTECTED FROM CONSTRUCTION RELATED SEDIMENT LOADINGS.

24. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT BASIN TO ALLOW FOR SUFFICIENT SETTLING PRIOR TO DISCHARGE.

ONSITE AT ALL TIMES TO RELOCATE OR ADD SUCH MEASURES AS THE PROJECT EVOLVES OR AN UNFORESEEN CONDITION OCCURS.

29. DO NOT EXCAVATE UNTIL THE DEWATERING SYSTEM IS OPERATIONAL AND THE EXCAVATION MAY PROCEED WITHOUT DISTURBANCE TO THE FINAL SUBGRADE.

SUBGRADE DENSITY REQUIREMENTS DUE TO IMPROPER DEWATERING TECHNIQUES, REMOVE AND REPLACE THE MATERIALS AS DIRECTED BY THE ENGINEER.

23. CRUSHED STONE AND/OR RIPRAP SHALL BE USED TO CONSTRUCT THE TRACKING PAD, CUT SLOPE TREATMENT AREAS, CHECK DAMS, SEDIMENTATION BASIN OUTLET PROTECTION, AND ELSEWHERE AS CONDITIONS WARRANT. THE

26. WATER FROM THE TRENCHES AND EXCAVATIONS SHALL BE DISPOSED OF IN SUCH A MANNER AS TO AVOID PUBLIC NUISANCE, INJURY TO PUBLIC HEALTH OR THE ENVIRONMENT, OR DAMAGE TO PUBLIC OR PRIVATE PROPERTY,

27. WATER FROM TRENCHES AND EXCAVATIONS SHALL NOT BE DISCHARGED DIRECTLY TO STORM DRAIN SYSTEMS. PROPER TREATMENT TO A SEDIMENTATION AREA IS TO TAKE PLACE PRIOR TO DISCHARGE TO ANY DRAINAGE SYSTEMS.

30. UNLESS OTHERWISE SPECIFIED, CONTINUE DEWATERING UNINTERRUPTED UNTIL THE STRUCTURES, PIPES. AND APPURTENANCES TO BE BUILT HAVE BEEN PROPERLY INSTALLED. WHERE SUBGRADE MATERIALS ARE UNABLE TO MEET

32. BMPS TO BE USED FOR INFILTRATION AFTER CONSTRUCTION SHALL NOT BE USED AS BMPS DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE BOARD. MANY INFILTRATION TECHNOLOGIES ARE NOT DESIGNED TO

33. ABUTTING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS FROM THIS PROJECT AT ALL TIMES. WORK ON ABUTTING PROPERTY SHALL REQUIRE WRITTEN AUTHORIZATION FROM THE OWNER PRIOR TO

35. STOCKPILES SHALL BE LOCATED ONSITE OUTSIDE OF ALL WETLAND RESOURCE AREA BUFFER ZONES IF PRESENT ON SITE. EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE FOOT OF THE STOCKPILE AND AND SHALL BE

INSTALL WATTLE EROSION

INSTALL TÉMP SEDIMÉNT TRAP IN NEW – CATCH BASINS UNTIL SITE STABILIZATION

CONTROL (TYP.)

IS COMPLETE (TYP.)

COMMERCIAL

DISTRICT

LOW __ X __ X LOW __X __ _

PROPOSED SUBSURFACE

- OPERATIONAL ONCE UPSTREAM AREAS ARE

INFILTRATION SYSTEM TO BE

34. THE EROSION CONTROL MEASURES ILLUSTRATED IN THIS PLAN SET SHALL BE THE MINIMUM REQUIRED CONTROLS IMPLEMENTED. THE CONTRACTOR SHALL KEEP ADDITIONAL EROSION CONTROL MEASURES SUCH AS SILT SOCKS

INSTALL CONSTRUCTION FENCE AT THE

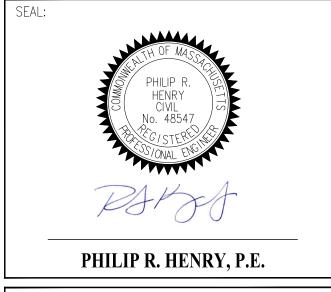
PERIMETER OF THE SITE. FENCE TO BE

RELOCATED AS NEEDED TO FACILITATE THE CONSTRUCTION PROCESS

	ſ		LEGEND		
		EXISTING	PROPOSED	DESCRIPTION	
				PROPERTY LINE	
				DRAIN MANHOLE	
				CATCH BASIN	
CENEDAL ADDDEVIATIONS		S		SEWER MANHOLE	
GENERAL ABBREVIATIONS ASSESSOR'S PARCEL	A.P.	D		DRAIN PIPE	
BOTTOM OF CURB BITUMINOUS CONCRETE CURB BITUMINOUS CONCRETE	BC BCC BIT. CONC	—— G ——— —— OHW ———		GAS LINE OVERHEAD WIRES	
BOTTOM OF WALL CATCH BASIN	BW CB	W		WATER LINE	
CHAIN LINK FENCE CLEANOUT	C.L.F.	s		SEWER LINE	
CONCRETE SURFACE DRILL HOLE FOUND	CONC DH (F)	Ç.		HYDRANT	
DRAIN MANHOLE	DMH DWFG			SIGN	
OOUBLE WALL FIBER GLASS DASHED WHITE LINE	DWL	\$		SITE LIGHT	
OOUBLE YELLOW CENTERLINE EDGE OF PAVEMENT	DYCL EOP	-		UTILITY POLE	
EXTRUDED CONCRETE CURB ELECTRIC HANDHOLE	ECC EHH			INDEX CONTOUR	
INISHED FLOOR ELEVATION RONT YARD	FF= FY	169		MINOR CONTOUR	
/ERTICAL GRANITE CURB GAS METER	GC GM			TREE LINE	
HIGH DENSITY POLYETHYLENE PIPE	HDPE	4 4		CONCRETE SIDEWALK	
NVERT ELEVATION INEAL FEET	l= LF	⊚ /.P.		IRON PIPE/IRON PIN	_
ANDSCAPED AREA MONOLITHIC CONCRETE CURB MATCH EXISTING NVERT NOT AVAILABLE	LA MCC ME N/A			EXISTING BUILDINGS & APPURTENANCES TO BE DEMOLISHED	
NOW OR FORMERLY ON CENTER	N/F OC		X	CONSTRUCTION FENCE	
RIM ELEVATION	R=			WATTLES	
ROOF DRAIN REMOVE REAR YARD SEWER FORCE MAIN	RD REM RY			PROPOSED BUILDING PAD	
SOLID WHITE EDGE LINE SOLID WHITE LINE SIDE YARD OP OF CURB	SFM SWEL SWL SY TC			PAVEMENT TO BE RECLAIMED (IF SUITABLE)	
OP OF WALL JTILITY POLE /ITRIFIED CLAY	TW UP VC			STABILIZED CONSTRUCTION ENTRANCE	'
VATER GATE VATER SHUT—OFF	WG WSO	B108		BORING LOCATION	

ESHGW DEPTH ESHGW ELEVATION /A - REFUSAL N/A - REFUSAL /A - REFUSAL N/A - REFUSAL 52" 94.4± 52" 94.8± 32" 94.3± INSTALL WATTLE ERC	DSION	WOOD REM PILE REMOVE EXISTING LOAM AND ORGANIC LAYER (TYP.)	COMMERCIAL DISTRICT
COMMERCIAL DISTRICT S	REM PIPE UP PROPOSED EXTENTS OF BUILDING CANOPY N0°08'19"W 65.00	EM SHED INSTALL WATTLE EROSION CONTROL (TYP.)	PROTECT EXISTING TREES OUTSIDE OF THE LIMIT OF WORK (TYP.) #1660 WASHINGTON
REMOVE EXISTING LOAM AND ORGANIC LAYER (TYP.) P S13°12'02"W 208.63'	REMOVE EXISTING PAVEMENT (TYP.) REMOVE EXISTING ELEC/TEL SERVICES TO BUILDING CONSTRUCTION VEHICLE— REMOVE PAVEMENT (TYP.) REMOVE EXISTING CONSTRUCTION VEHICLE— REMOVE PAVEMENT (TYP.) REMOVE EXISTING PAVEMENT (TYP.)	3' WALK REM ASPHALT DRIVE LIMIT OF WORK	FENCE TO BE
INSTALL CONSTRUCTION FENCE AT THE PERIMETER OF THE SITE. FENCE TO BE RELOCATED AS NEEDED TO FACILITATE THE CONSTRUCTION PROCESS S88*26'48"E 30.15' 30.15' 30.15'	STOCKPILE AREA DURING DEMO PHASE CONSTRUCTION WASH	MATTLE EROSION OL (TYP.) WATTLE EROSION EXISTING WATER SHUT-OFF TO BE REMOVED	WIRES
PROTECT EXISTING ROADWAY BEYOND LIMIT OF WORK SHALL LIMIT OF WORK BE PROPERTY LINE TRAFFIC	LIMIT OF EOP REMOVAL TO REMAIN PROTECT UTILITIES WITHIN RIGHT OF WAY MARKINGS TO BE TO REMAIN PROTECT UTILITIES WITHIN RIGHT OF WAY	REM-1 - 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
	OW OW OW OW OW OW	OF SIDEWALK, CURB AND UTILITY	DICSTIC IAL

NOT FOR CONSTRUCTION OG PROJECT # REVISIONS: COMMENT 11/09/23 REV PER PEER REVIEW COMMENT



COMMERCIAL

DISTRICT

IVII FNGINFFR

PLANNING BOARD:

CIVIL LESIGN TROUP, LLC

> 21 HIGH STREET, SUITE 207 NORTH ANDOVER, MA 01845 www.cdgengineering.com p: 978-794-5400 f: 978-965-3971

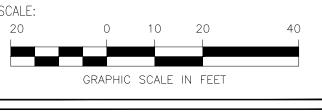
REPARED FOR:

1650 WASHINGTON STREET, LLC

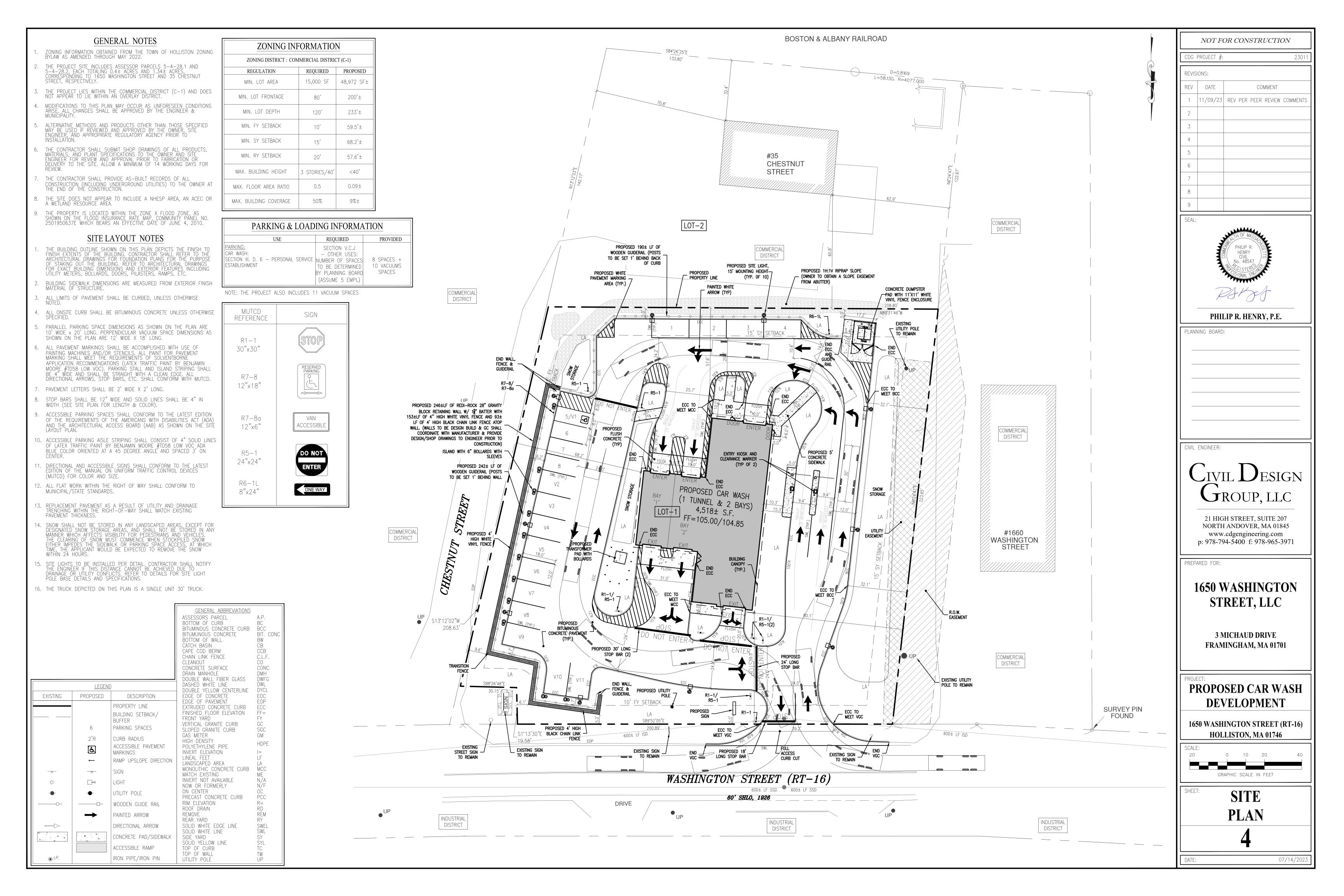
3 MICHAUD DRIVE FRAMINGHAM, MA 01701

PROPOSED CAR WASH **DEVELOPMENT**

1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746

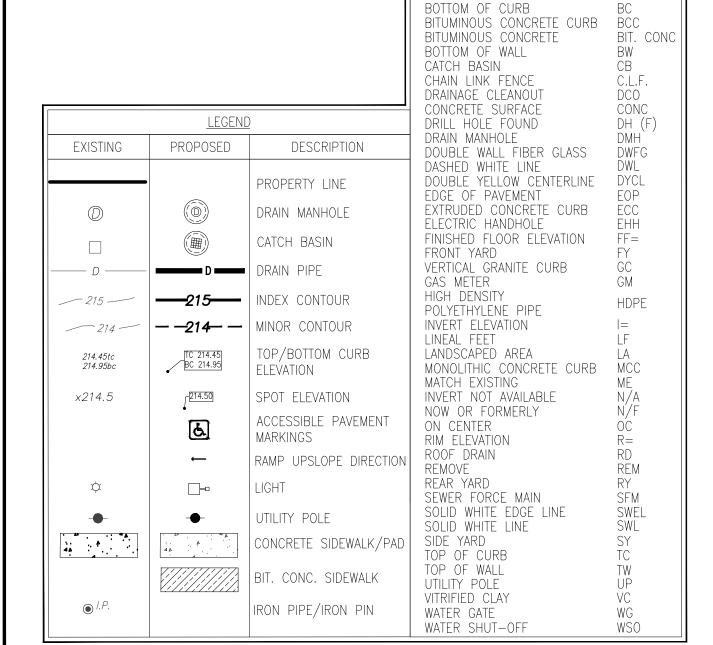


DEMOLITION & EROSION CONTROL PLAN



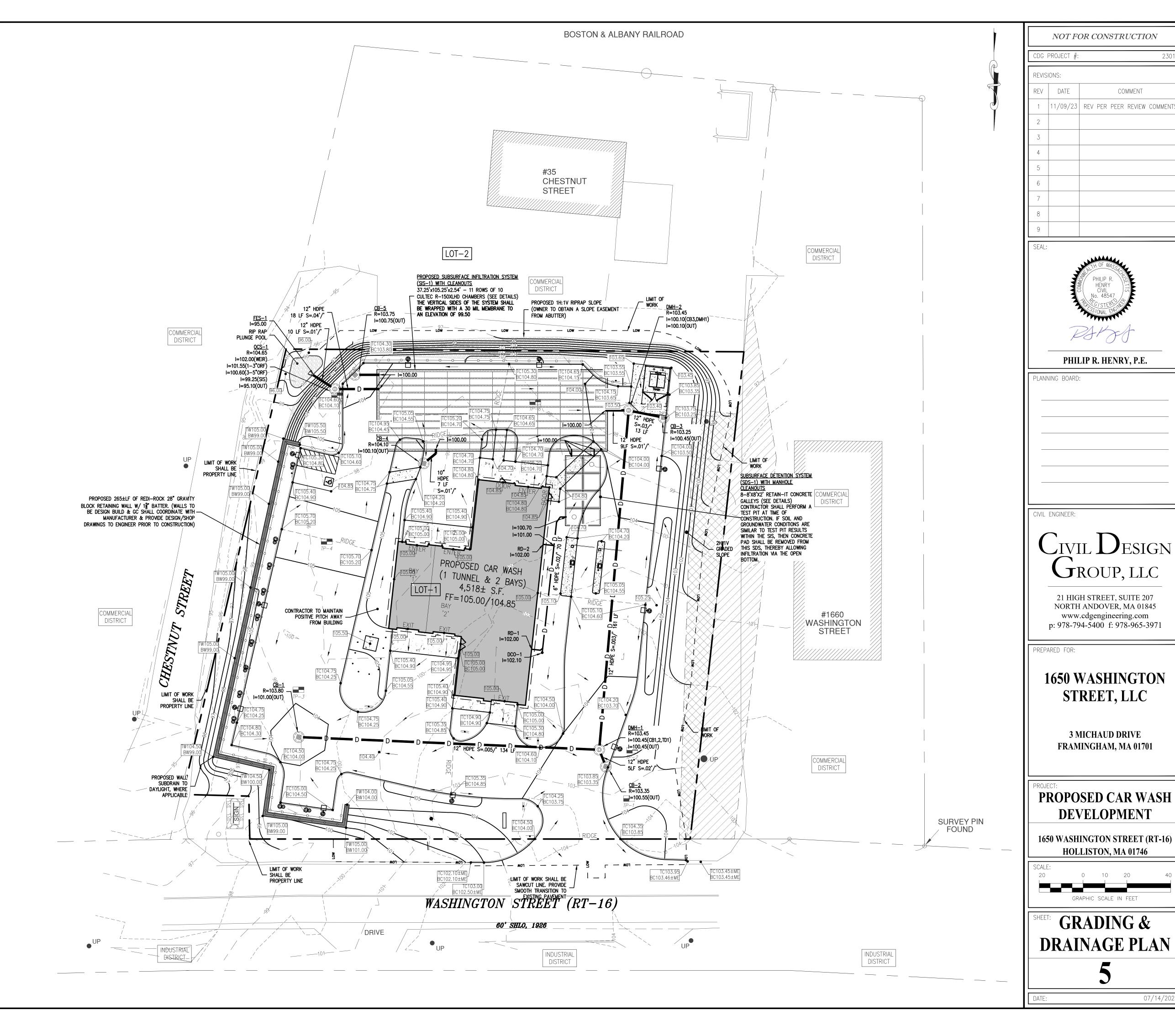
GRADING & DRAINAGE NOTES

- 1. THE ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE DATUM REFERENCE ON THE EXISTING CONDITIONS PLAN.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND ELEVATION BENCHMARKS THROUGHOUT CONSTRUCTION.
- 3. EXTERIOR ELEVATIONS ALONG EACH BUILDING SIDE MAY VARY IN ORDER TO ACHIEVE GRADE IN CERTAIN AREAS. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM THE PROPOSED BUILDING.
- 4. NEW SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0% AND A MAXIMUM RUNNING SLOPE OF 5.0% UNLESS AN ADA COMPLIANT RAMP IS PROVIDED. RAMPS SHALL NOT EXCEED AN 8.0% RUNNING SLOPE AND SHALL NOT EXCEED A 6" RISE UNLESS A HANDRAIL IS PROVIDED. FURTHERMORE, ACCESSIBLE PARKING SPACES AND PROXIMATE ACCESS AISLES SHALL BE SLOPED AT A MAXIMUM OF 2.0% IN ALL DIRECTIONS. SHOULD ANY DISCREPANCIES WITH THESE REQUIREMENTS ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
- 5. CONTRACTOR SHALL NOTIFY ENGINEER IF THE ILLUSTRATED GRADES CANNOT BE ACHIEVED WITHIN ACCESSIBLE AREAS, INCLUDING PARKING SPACES, ROUTES AND RAMPS.
- 6. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF THE CONSTRUCTION.
- 7. CURB SHALL TRANSITION FROM FLUSH TO FULL DEPTH REVEAL WITHIN 6 FEET.
- 8. PROPOSED BOTTOM OF CURB ELEVATIONS ALONG EXISTING STREETS ARE BASED ON EXISTING CONDITIONS INFORMATION AND SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL MATCH EXISTING EDGE OF PAVEMENT GRADE.
- 9. EXISTING DRAINAGE AND UTILITY RIM ELEVATIONS LOCATED WITHIN THE LIMIT OF WORK TO REMAIN SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH NEW FINISHED GRADE.
- 10. ALL FLAT WORK WITHIN THE RIGHT OF WAY SHALL CONFORM TO MUNICIPAL/STATE STANDARDS.
- 11. EXISTING TREES OUTSIDE OF THE LIMIT OF WORK SHALL BE PROTECTED DURING CONSTRUCTION.
- 12. ALL DISTURBED AREAS OUTSIDE THE LIMIT OF WORK SHALL BE RESTORED IN KIND.
- 13. NEW DRAINAGE PIPE SHALL BE DUAL WALL CORRUGATED HDPE (ADS N-12 OR APPROVED EQUAL), UNLESS OTHERWISE SPECIFIED.
- 14. ROOF DRAIN LEADERS SHALL BE 6" HDPE PIPE, UNLESS OTHERWISE SPECIFIED.
- 15. ELEVATION OF LANDSCAPED AREAS ARE GIVEN AT PLANTED/SOD GRADE.
- 16. THE AREA BELOW THE SUBSURFACE INFILTRATION AREA SHALL BE LEFT UNCOMPACTED.
- 17. ANY DISTURBED AREAS THAT WILL NOT BE STABILIZED BY PAVEMENT OR BUILDING BASE COURSES SHALL BE SODDED OR SEEDED & MULCHED. MULCHING SHALL BE USED TO STABILIZE DISTURBED
- 18. ALL BACK FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. BACK FILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATIVE MATTER, WASTE, CONSTRUCTION MATERIALS, OR OTHER OBJECTIONABLE MATERIAL. BACK FILL MATERIALS SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND THE MATERIAL SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER TAMPING BLOWS OR PROOF ROLLING. ALL BACK FILL MATERIAL SHALL BE PLACED IN LOOSE 6-IN. LIFTS AND COMPACTED BY MECHANICAL MEANS, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- 19. ALL BUILDINGS, SIDEWALK, AND PAVEMENT SUB-GRADES SHALL BE COMPACTED TO 98% OF ASTM D698 TO A DEPTH OF 12-IN. AND TO 95% OF ASTM D698 BELOW 12-IN DEPTHS. ALL OTHER NON-STRUCTURAL AREAS SHALL BE COMPACTED TO 90% OF ASTM D698.
- 20. PROPOSED CATCH BASINS SHALL INCLUDE ELIMINATOR HOODS AS SPECIFIED IN THE DETAILS.
- 21. PROVIDE A SMOOTH, FLUSH TRANSITION BETWEEN ALL NEW AND EXISTING PAVEMENTS.



GENERAL ABBREVIATIONS

ASSESSOR'S PARCEL

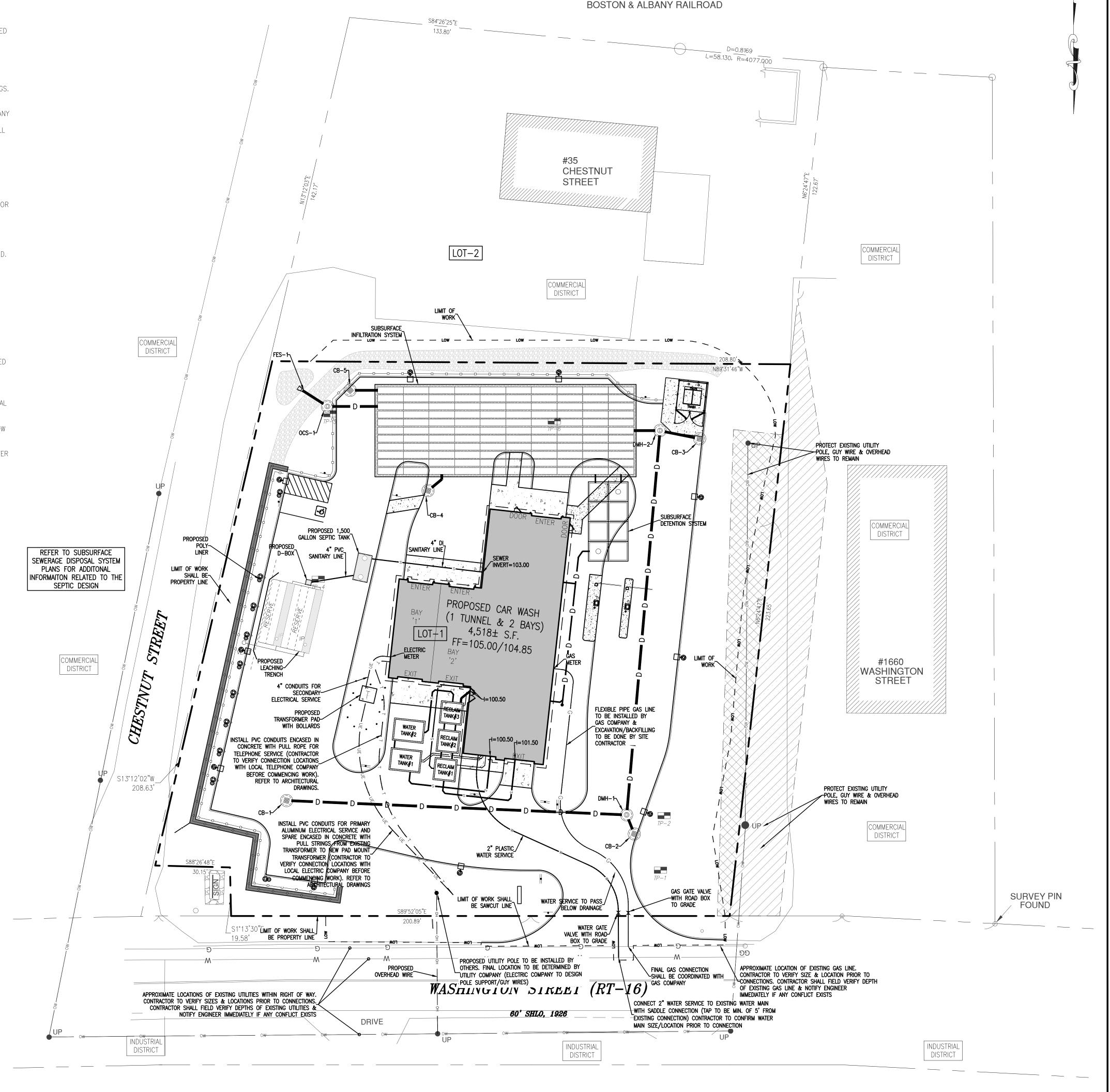


COMMENT

UTILITY NOTES

- 1. ALL WATER SERVICES SHALL BE INSTALLED WITH A MINIMUM 5' AND A MAXIMUM OF 6' OF COVER EXCEPT AS NOTED OR DETAILED OTHERWISE. GREATER DEPTHS ARE PERMITTED WHERE REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES.
- 2. ALL WATER SERVICE INSTALLATION METHODS AND TESTING REQUIREMENTS SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS.
- 3. WATER, ELECTRICAL, TELEPHONE AND GAS MAINS DEPICTED IN THE RIGHT OF WAY ARE BASED ON RECORD DRAWINGS. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONNECTION.
- 4. PROPOSED GAS SERVICE LOCATION IS 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, BACKFILL AND COMPACTION FOR THE GAS LINE.
- 5. DUE TO THE SCALE OF THE SITEWORK DRAWINGS, THE EXACT LOCATION OF UTILITY SERVICES TO THE BUILDING SHALL BE VERIFIED WITH THE BUILDING DRAWINGS.
- 6. ALL UTILITIES, PIPE MATERIALS, STRUCTURES, AND INSTALLATION METHODS SHALL CONFORM TO MUNICIPALITY STANDARDS AND REQUIREMENTS.
- 7. SUITABLE, TEMPORARY PLUGS SHALL BE INSTALLED IN THE OPEN ENDS OF UTILITY SERVICES TO THE BUILDING PRIOR TO BACKFILLING. STUB LOCATIONS SHALL BE MARKED IN THE FIELD SO THAT THEY MAY BE EASILY LOCATED.
- 8. WATER SERVICES TO BE CUT & CAPPED AT MAIN AND SERVICE LINES SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE SPECIFIED.
- 9. GAS SERVICES TO BE CUT & CAPPED AT PROPERTY LINE AND ABANDONED IN PLACE, UNLESS OTHERWISE SPECIFIED.
- 10. WATER SERVICE CONNECTIONS SHALL BE INSPECTED BY THE MUNICIPAL WATER & SEWER DEPARTMENT.
- 11. ALL SITE DRAINAGE, WATER, AND SEWER WORK OUTSIDE THE BUILDING FOOTPRINT SHALL BE PERFORMED BY A LICENSED DRAIN LAYER.
- 12. EXISTING DRAINAGE AND UTILITY RIM ELEVATIONS LOCATED WITHIN THE LIMIT OF WORK TO REMAIN SHALL BE ADJUSTED BY THE CONTRACTOR TO MATCH NEW FINISHED GRADE.
- 13. CONTRACTOR TO FIELD VERIFY DEPTH OF EXISTING UTILITIES ALONG THE PATH OF THE PROPOSED UTILITY CONNECTIONS AND NOTIFY ENGINEER IMMEDIATELY IF A CONFLICT EXISTS.
- 14. EXCAVATION, CONDUIT INSTALLATION AND BACKFILLING FOR ELECTRICAL AND TELEPHONE SERVICES TO BE PERFORMED BY SITE CONTRACTOR.
- 15. ALL UTILITIES ARE TO BE LOCATED UNDERGROUND UNLESS OTHERWISE NOTED.
- 16. WASTEWATER FROM THE PROJECT WILL BE DIRECTED VIA GRAVITY SEWER PIPES TO INDIVIDUAL LOT SEWAGE DISPOSAL SYSTEMS. THE SEWERAGE DISPOSAL SYSTEMS WILL BE DESIGNED FINALIZED UNDER SEPARATE COVER.
- 17. SEWER SHALL NOT BE PLACED WITHIN 10' (HORIZONTALLY) OF A WATER LINE AND THE SEWER MUST BE 18" BELOW THE WATER LINE AT NECESSARY CROSSINGS.
- 18. THE ONSITE SEPTIC SYSTEMS HAVE BEEN DESIGNED BY OTHERS UNDER SEPARATE COVER. CONTRACTOR SHALL REFER TO THE SEPTIC DESIGN PLANS FOR ADDITIONAL INFORMATION AND DETAILS.
- 19. THE CONTRACTOR, ON BEHALF OF THE DEVELOPER, SHALL SUBMIT UTILITY AS-BUILT PLANS IN PAPER AND PDF FORMAT INCLUDING SWING TIES FOR SEWER AND WATER TO THE TOWN ENGINEERING DEPARTMENT.
- 20. THE CONTRACTOR SHALL COORDINATE ALL PROPOSED GAS, ELECTRIC, TELEPHONE, AND CABLE UTILITY WORK WITH THE RESPECTIVE UTILITY COMPANIES THE PROPOSED CONNECTION LOCATIONS AND DETAILS PROVIDED HEREIN ARE FOR REPRESENTATION PURPOSES ONLY. FINAL CONNECTION POINTS AND DETAILS SHALL BE AS DETERMINED AND REQUIRED BY THE UTILITY COMPANIES.
- 21. TRANSFORMERS AND ASSOCIATED PROTECTIVE BOLLARDS SHALL BE PAINTED YELLOW, UNLESS OTHERWISE SPECIFIED BY THE OWNER OR UTILITY COMPANY.
- 22. GUY WIRES SHALL BE INSTALLED AS REQUIRED/DESIGNED BY THE UTILITY COMPANY.

CAR WA	SH EXTER	IOR STRUCTURE INFORMATION
STRUCTURE	RIM ELEVATION	INVERT ELEVATION
RECLAIM TANK #1	104.45±	100.20(2",4",6"IN), 99.70(6"OUT)
RECLAIM TANK #2	104.60±	99.70(6"IN)x2, 99.70(6"OUT)x2
RECLAIM TANK #3	104.90±	99.70(6"IN)x2, 100.70(10"OUT), 99.45(6"OUT)
WATER TANK #1	104.50±	99.15(2"IN), 92.00(6"EQ),
WATER TANK #2	104.75±	99.15(6"IN), 92.00(6"EQ),



NOT FOR CONSTRUCTION

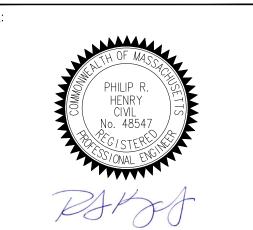
CDG PROJECT #: 23011

REVISIONS:

REV DATE COMMENT

1 11/09/23 REV PER PEER REVIEW COMMENTS

2 3
4 5
6



PHILIP R. HENRY, P.E.

PLANNING BOARD:

CIVIL ENGINEER:

CIVIL DESIGN
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REPARED FOR:

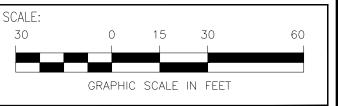
1650 WASHINGTON STREET, LLC

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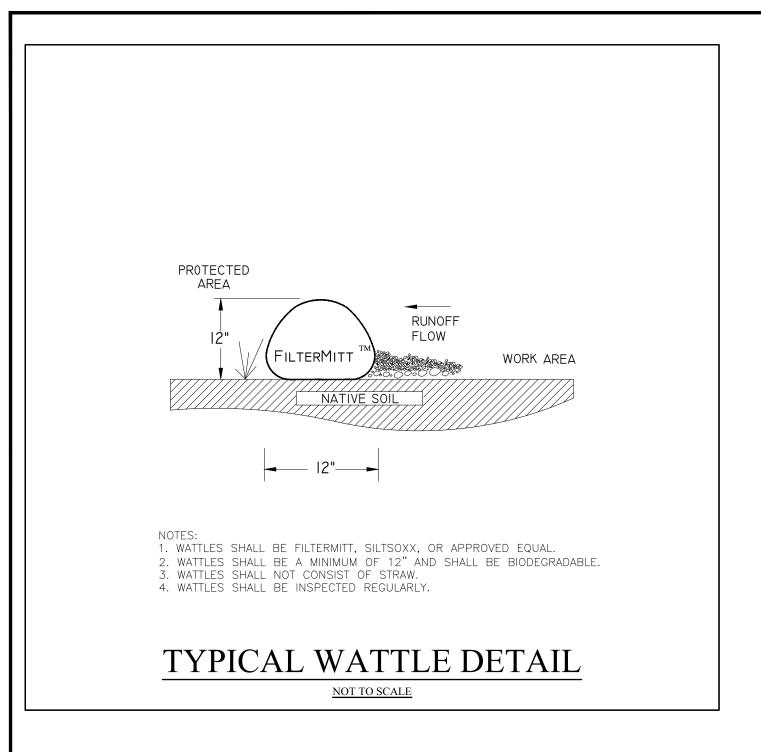
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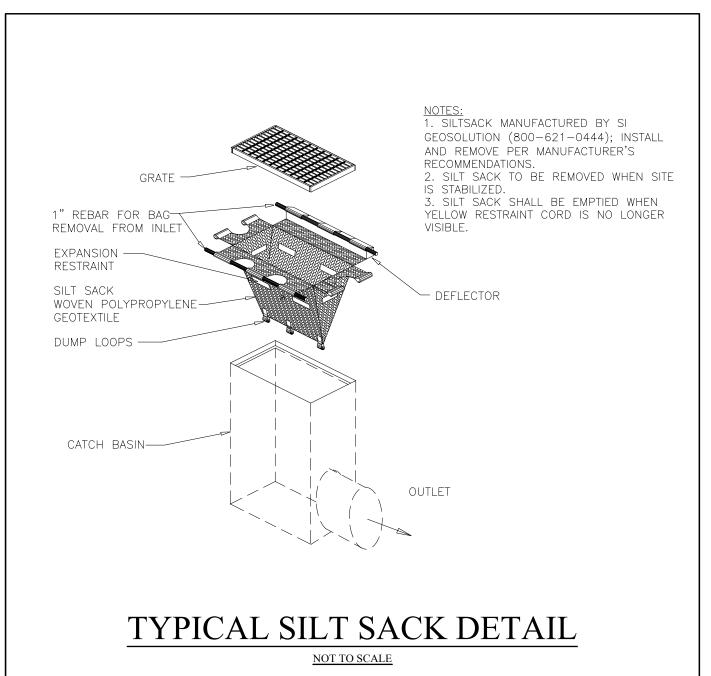
PROPOSED CAR WASH DEVELOPMENT

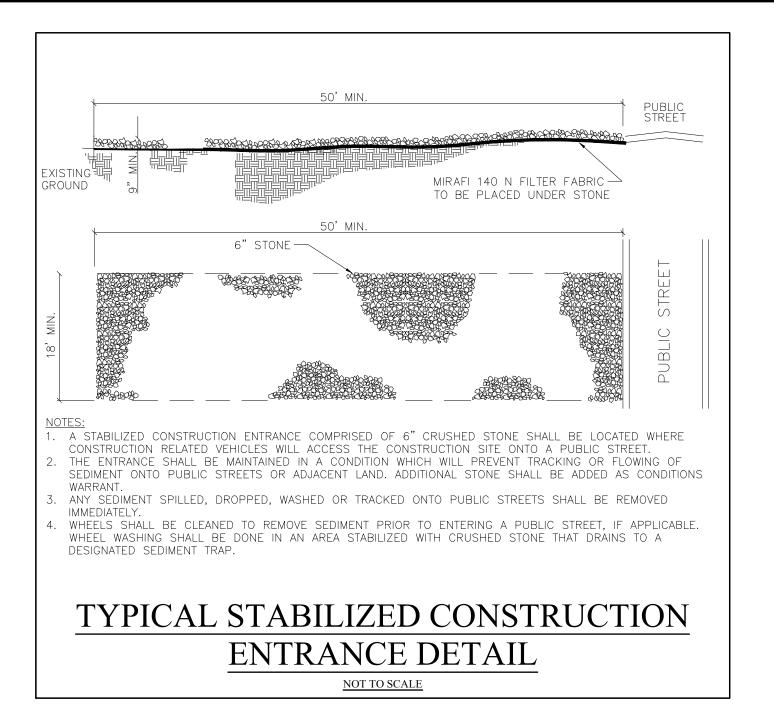
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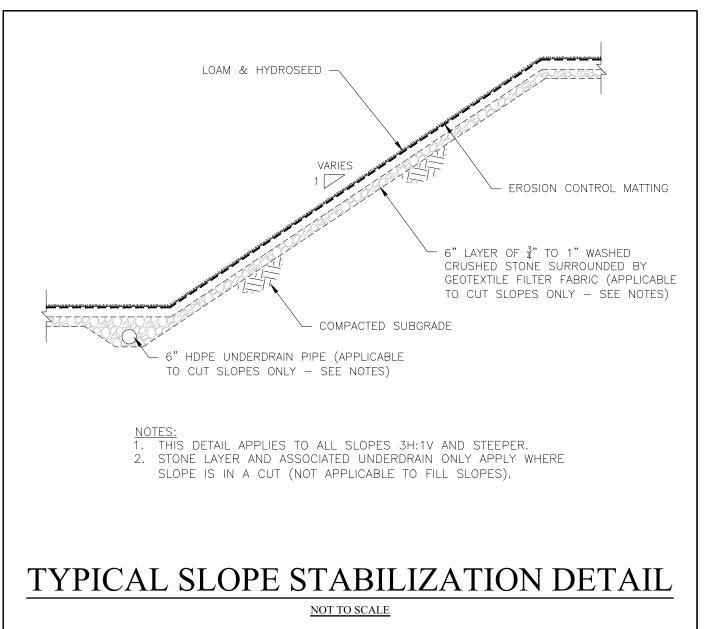


UTILITY PLAN









- 4" THICK BROOM FINISH, AIR-ENTRAINED, 4,000 PSI, 610

- 6x6-W1.4xW1.4 WELDED WIRE

FABRIC (CENTER DEPTH)

- 8" PROCESSED GRAVEL

TYPE II, FIBER REINFORCED CEMENT CONCRETE

VARIES (SEE PLAN)

NOTES:

1. THIS DETAIL PROVIDES A MINIMUM STANDARD FOR SIDEWALK CONSTRUCTION. THE FINAL SIDEWALK

SECTION SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER AND SHALL BE UTILIZED IF MORE

3. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERVALS. A 1/2" EXPANSION JOINT WILL

4. FLAT WORK WITHIN THE MUNICIPAL RIGHT OF WAY SHALL BE CONSTRUCTED IN CONFORMANCE WITH

TYPICAL CONCRETE SIDEWALK DETAIL

NOT TO SCALE

BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE. EXPANSION JOINT FILLER

STRIP SHALL BE INSTALLED FLUSH WITH THE SIDEWALK SURFACE TO PROVIDE A SMOOTH

2. GROOVE JOINTS 1" DEEP WITH 1/3" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT

5' INTERVALS. ALL GROOVE JOINTS SHALL LEAVE A HORIZONTAL GAP OF LESS THAN $\frac{1}{2}$ " TO

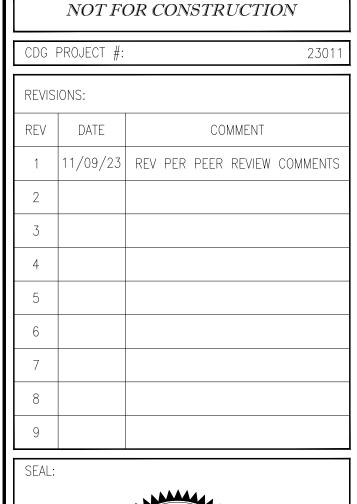
COMPACTED -

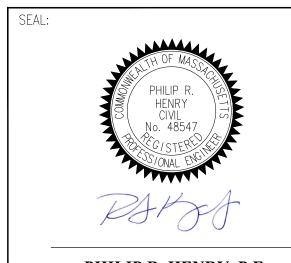
TRANSITION ACROSS JOINTS, IN ACCORDANCE WITH ADA REQUIREMENTS.

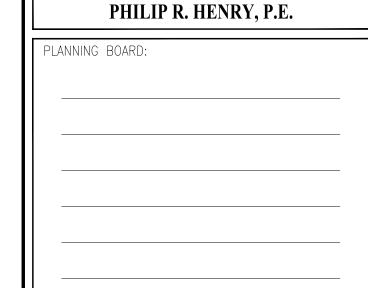
STRINGENT THAN THIS DETAIL.

COMPLY WITH ADA REQUIREMENTS.

MUNICIPAL STANDARD SPECIFICATIONS.







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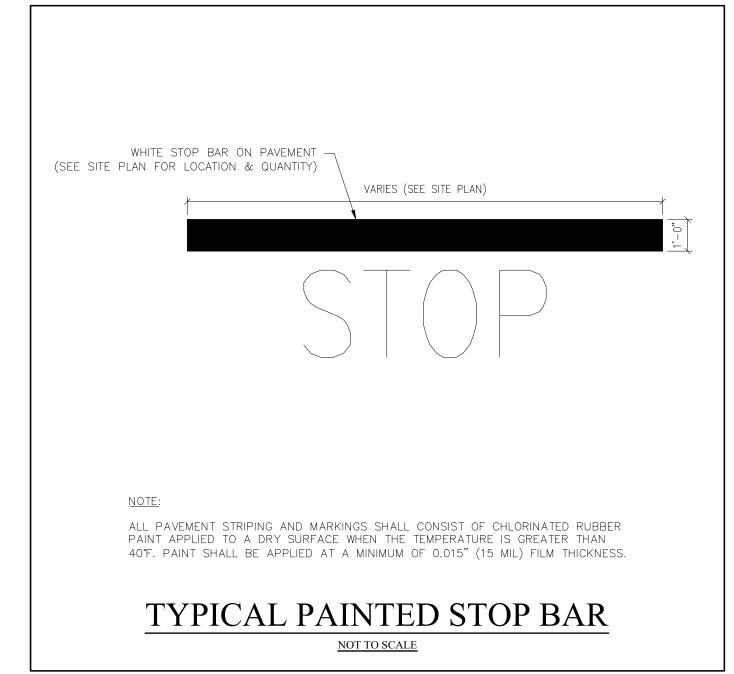
PROPOSED CAR WASH **DEVELOPMENT**

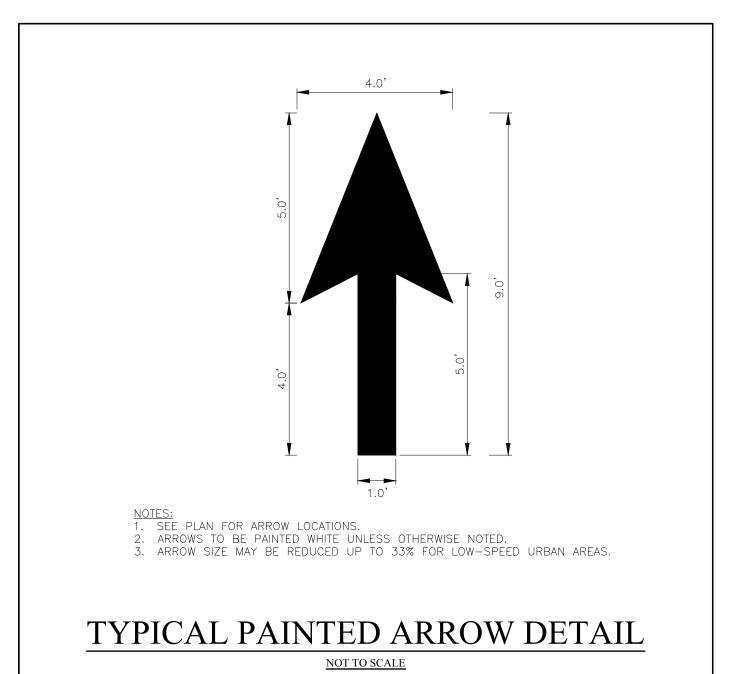
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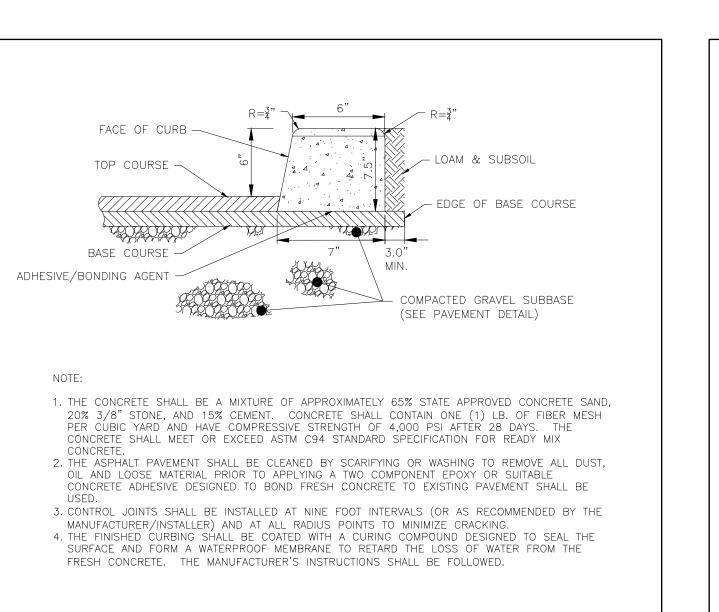
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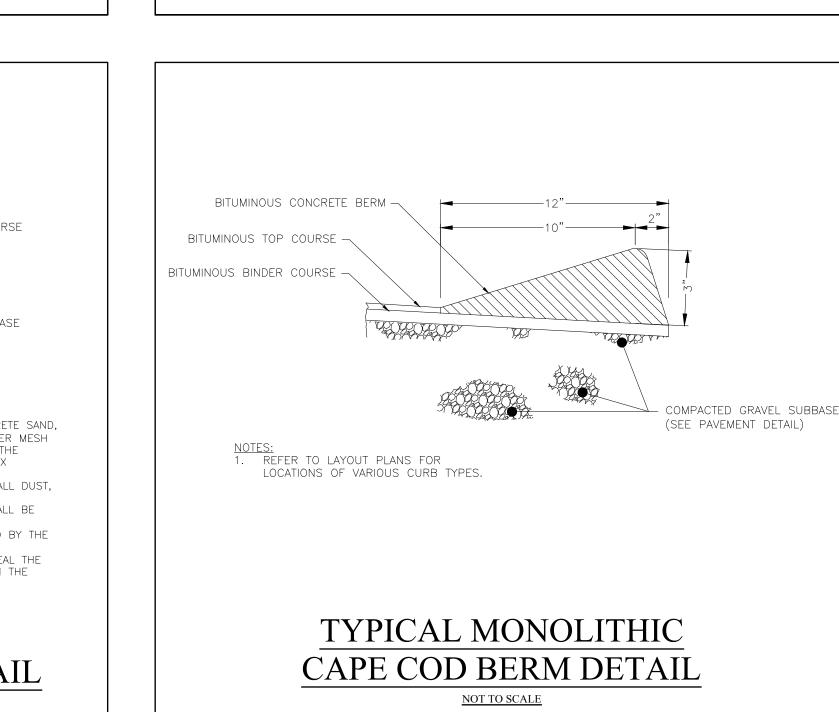
CONSTRUCTION DETAILS

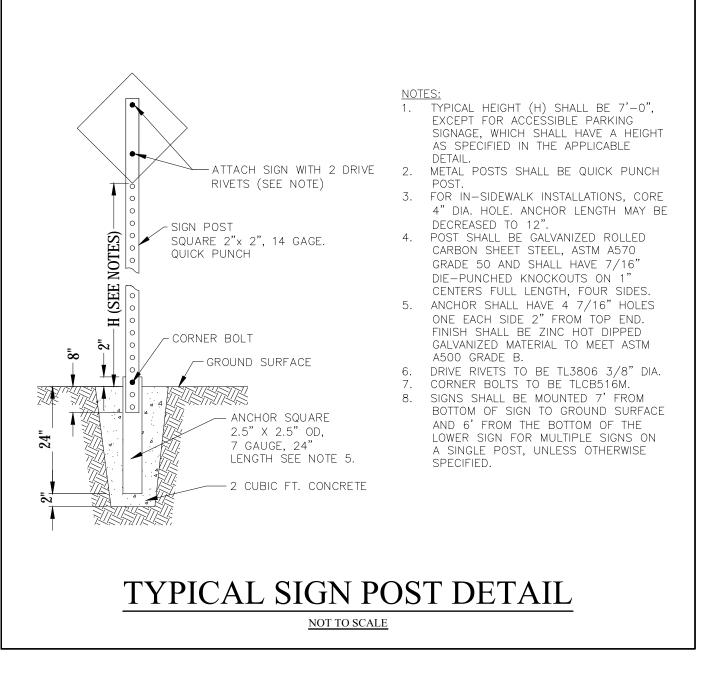
07/14/2023



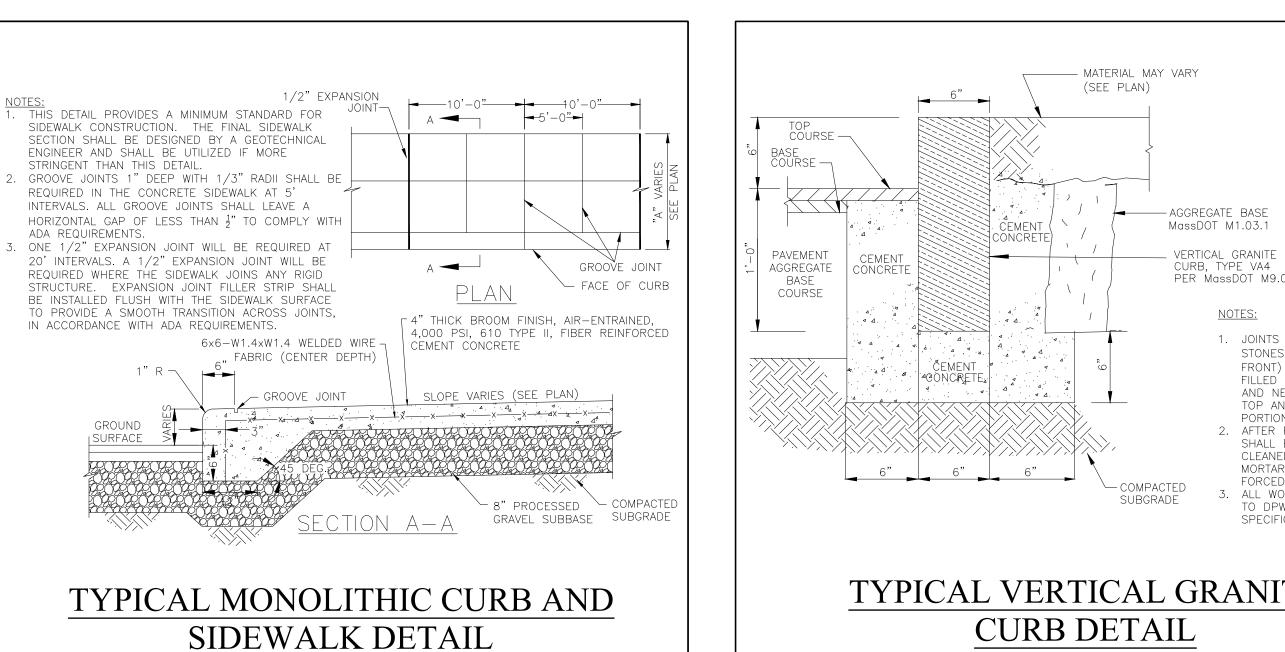


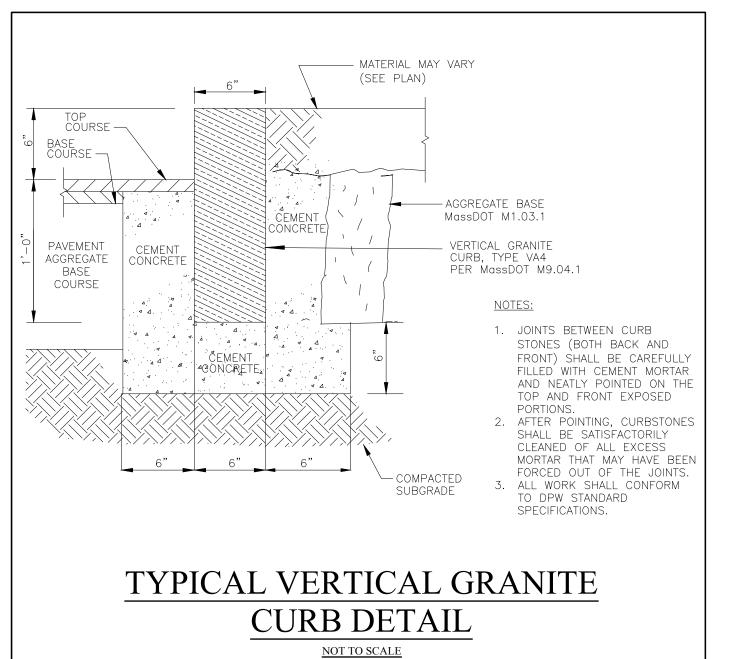


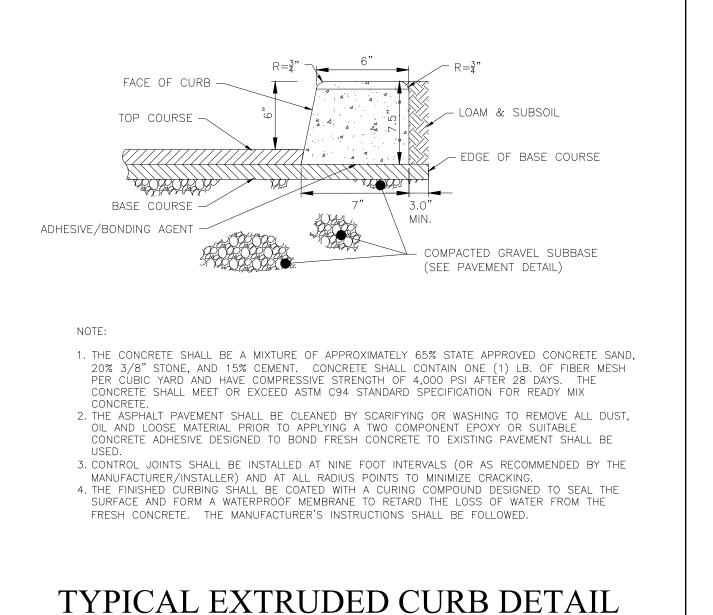




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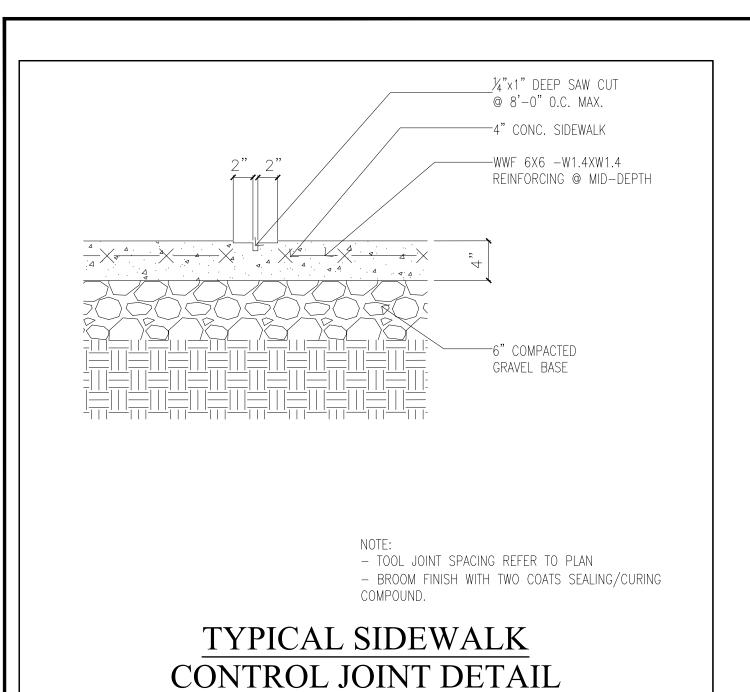






NOT TO SCALE

TYPICAL MONOLITHIC CAPE COD BERM DETAIL



PROPOSED PAVEMENT - - UNDISTURBED EXISTING PAVEMENT

- UNDISTURBED EXISTING

- SAWCUT AND TACK COAT ALL

COLD PLANE AND OVERLAY

DISTANCE OF 12" INTO EXISTING

(1.5" MIN. DEPTH) A MIN.

__1.5" HMA TOP COURSE

- APPROXIMATE LIMITS

REMOVE TEMPORARY HMA REPAIR

AND EXCAVATE 2" OF GRAVEL

OF EXCAVATION

WITH ASPHALT EMULSION

EDGES AND EXISTING PAVEMENT

PROPOSED TOP AND BASE -COURSES

SEE PROPOSED -PAVEMENT DETAIL

PROPOSED GRAVEL SUBBASE

3" HMA BINDER COURSE—

SAW CUT EXISTING-

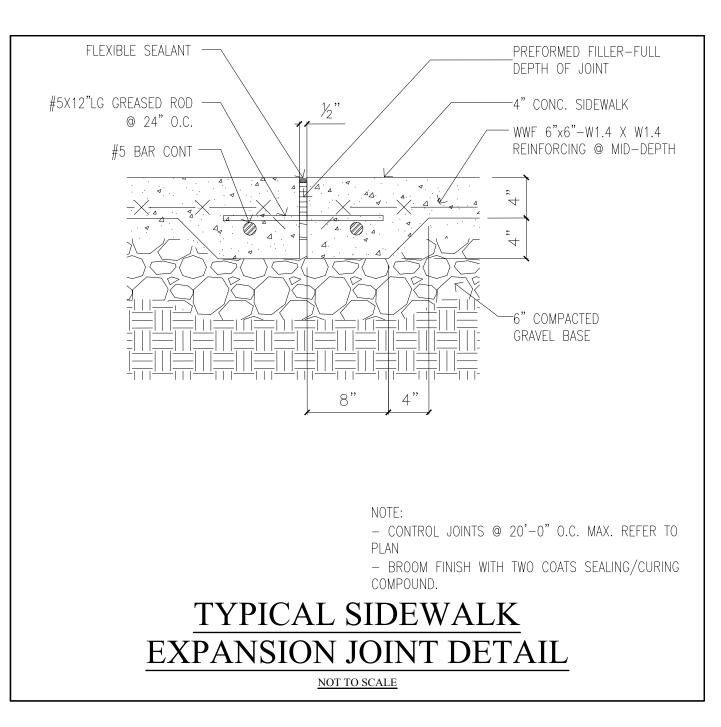
PAVEMENT (TYP)

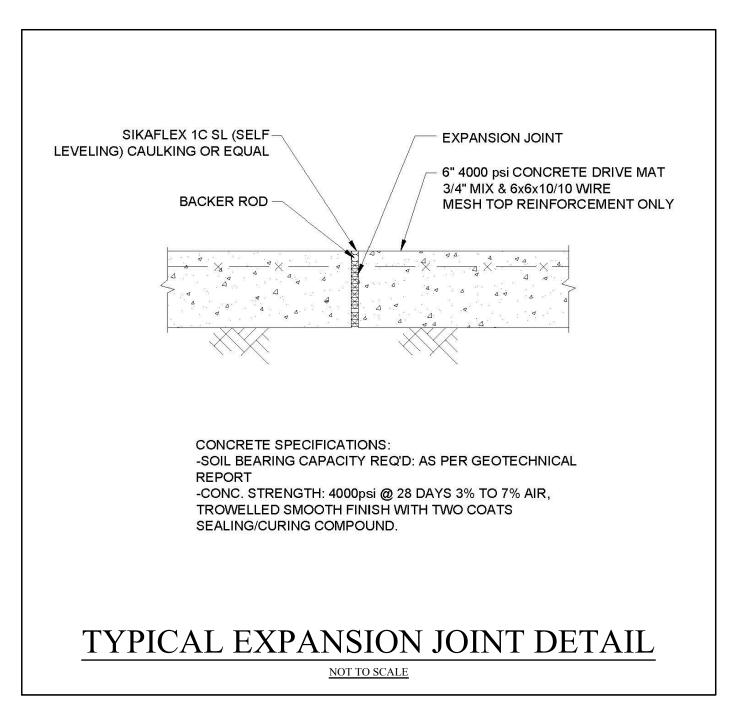
APPROXIMATE LIMIT OF-

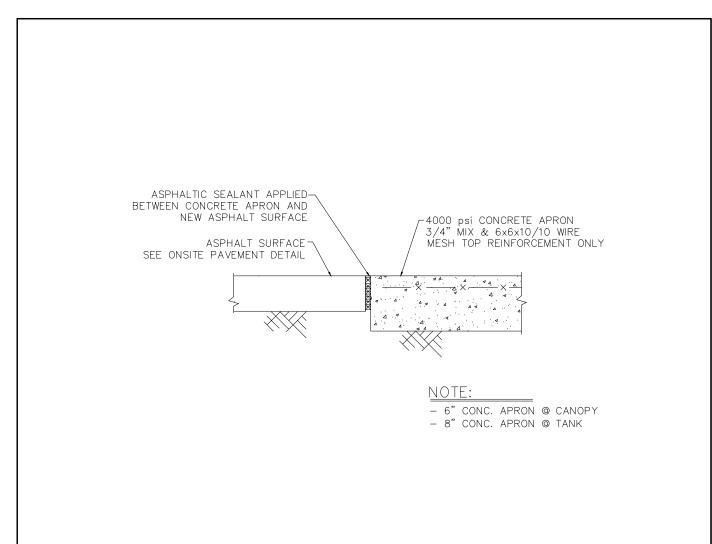
DISTURBED PAVEMENT

PROCESSED GRAVEL BORROW-

SELECT NATIVE BACKFILL-







TYPICAL ASPHALT / CONCRETE TRANSITION DETAIL

LOCATE SAW CUTS AS SHOWN ON

"DISPENSER APRON PLAN"

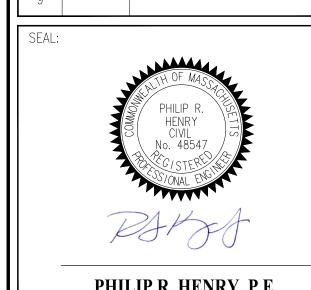
NOT TO SCALE

1/4" x 1 1/2" DEEP MAX. SAWCUT FILLED/W —

SIKAFLEX 1C SL (SELF LEVELING) CAULKING OR EQUAL

4000 psi CONCRETE APRON —

3/4" MIX & 6x6x10/10 WIRE MESH TOP REINFORCEMENT ONLY



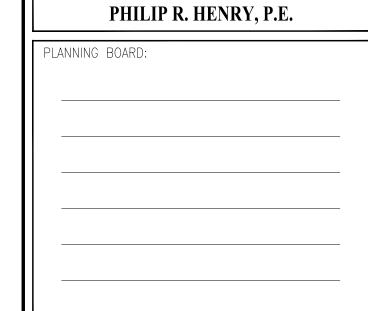
NOT FOR CONSTRUCTION

COMMENT

11/09/23 REV PER PEER REVIEW COMMENT

DG PROJECT #:

REVISIONS:



CIVIL ENGINEER:

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1650 WASHINGTON STREET, LLC

3 MICHAUD DRIVE FRAMINGHAM, MA 01701

PROPOSED CAR WASH **DEVELOPMENT**

1650 WASHINGTON STREET (RT-16) **HOLLISTON, MA 01746**

AS NOTED

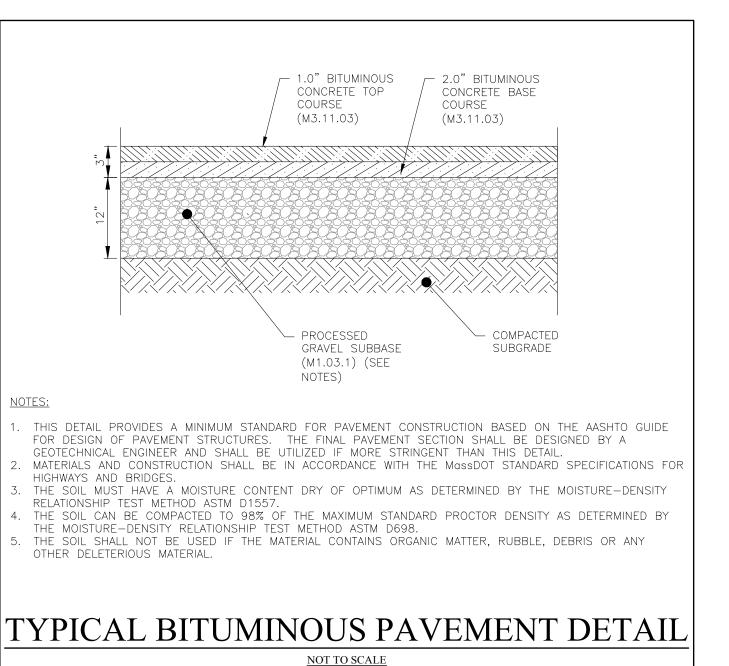
CONSTRUCTION DETAILS

07/14/2023

4" 3000 PSL CONC. W/ WWF ½" EXPANSION 6"x6"-W1.4 X W1.4 AT CENTER 6" TOOLED JOINT JOINT-OF SLAB. EXP. JOINT EVERY 24" O.C., CONTROL JOINT AT 1/8"/FT. SLOPE 8' O.C. SEE HARDSCAPE DWGS ASPHALT PAVING--CONCRETE SIDEWALK W/ THICKENED EDGE W/ (1) #5 CONT. HORIZONTAL. SIDEWALK CONTROL JOINTS ARE 3" DEEP TOOLED JOINT, NO SAW CUT ALLOWED. CONTRACTOR TO BEVEL 1'-0" JOINT AT $\frac{1}{4}$ ". -6" COMPACTED GRAVEL BASE - BROOM FINISH WITH TWO COATS SEALING/CURING COMPOUND. FLUSH CONCRETE SIDEWALK/PARKING DETAIL

NOT TO SCALE

HOT MIX ASPHALT -SURFACE COURSE* HOT MIX ASPHALT



PLACE SHEETING — WHERE REQUIRED

WATER PIPE

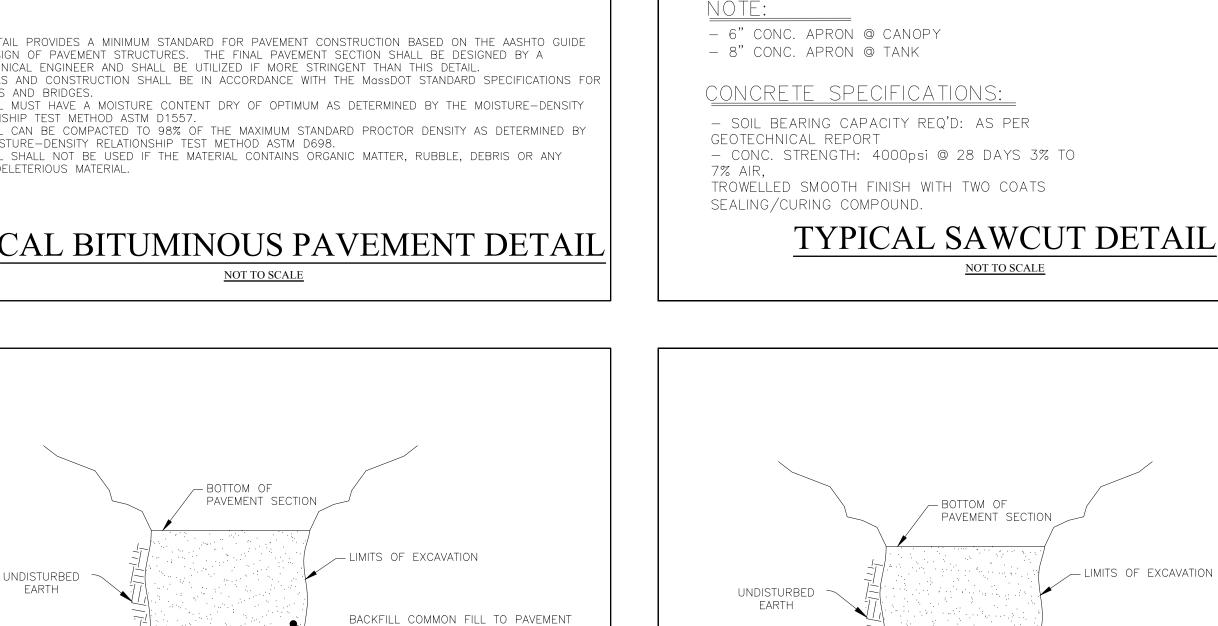
SIZE VARIES

PIPE O.D. + 2'

TYPICAL WATER TRENCH DETAIL

NOT TO SCALE

MINIMUM 3' WIDTH



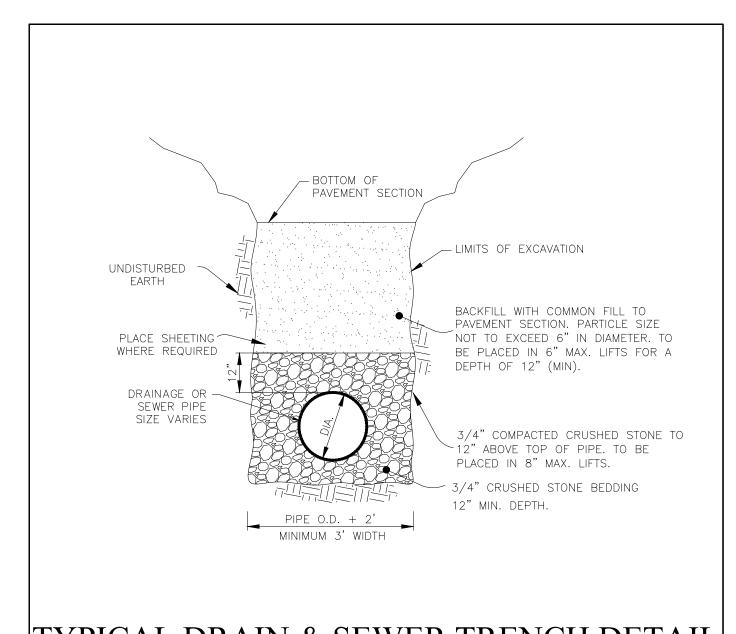
SECTION. PARTICLE SIZE NOT TO

EXCEED 6" IN DIAMETER. TO BE

PLACED IN 6" MAX. LIFTS FOR A

SAND TO 12" ABOVE TOP OF PIPE.

DEPTH OF 12" (MIN).



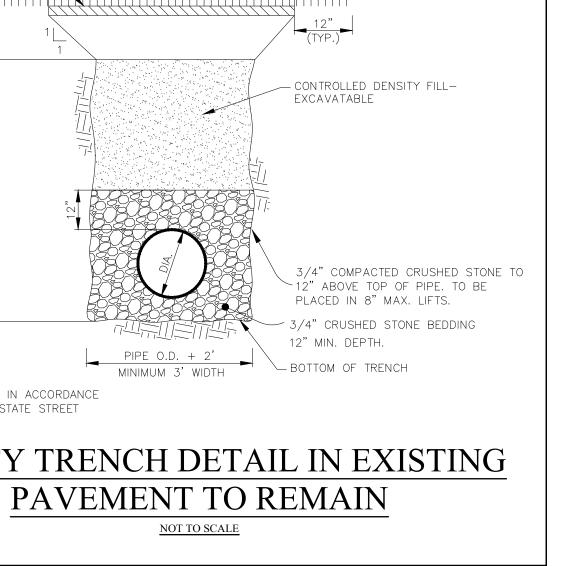
TYPICAL DRAIN & SEWER TRENCH DETAIL NOT TO SCALE

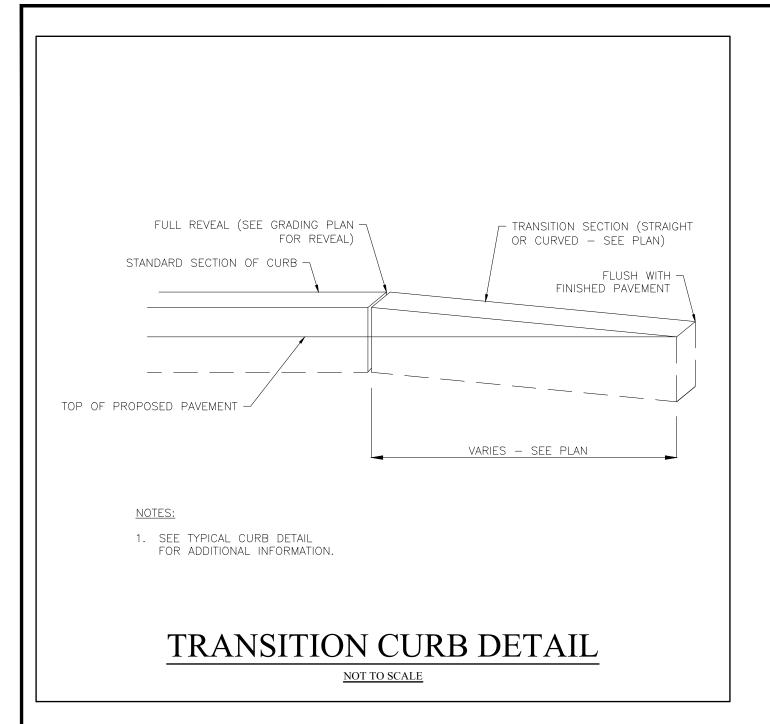
BINDER COURSE* - CONTROLLED DENSITY FILL-EXCAVATABLE 3/4" COMPACTED CRUSHED STONE TO 12" ABOVE TOP OF PIPE. TO BE PLACED IN 8" MAX. LIFTS. 3/4" CRUSHED STONE BEDDING 12" MIN. DEPTH. BOTTOM OF TRENCH * PAVEMENT TO BE IN ACCORDANCE WITH MUNICIPAL/STATE STREET STANDARDS UTILITY TRENCH DETAIL IN EXISTING

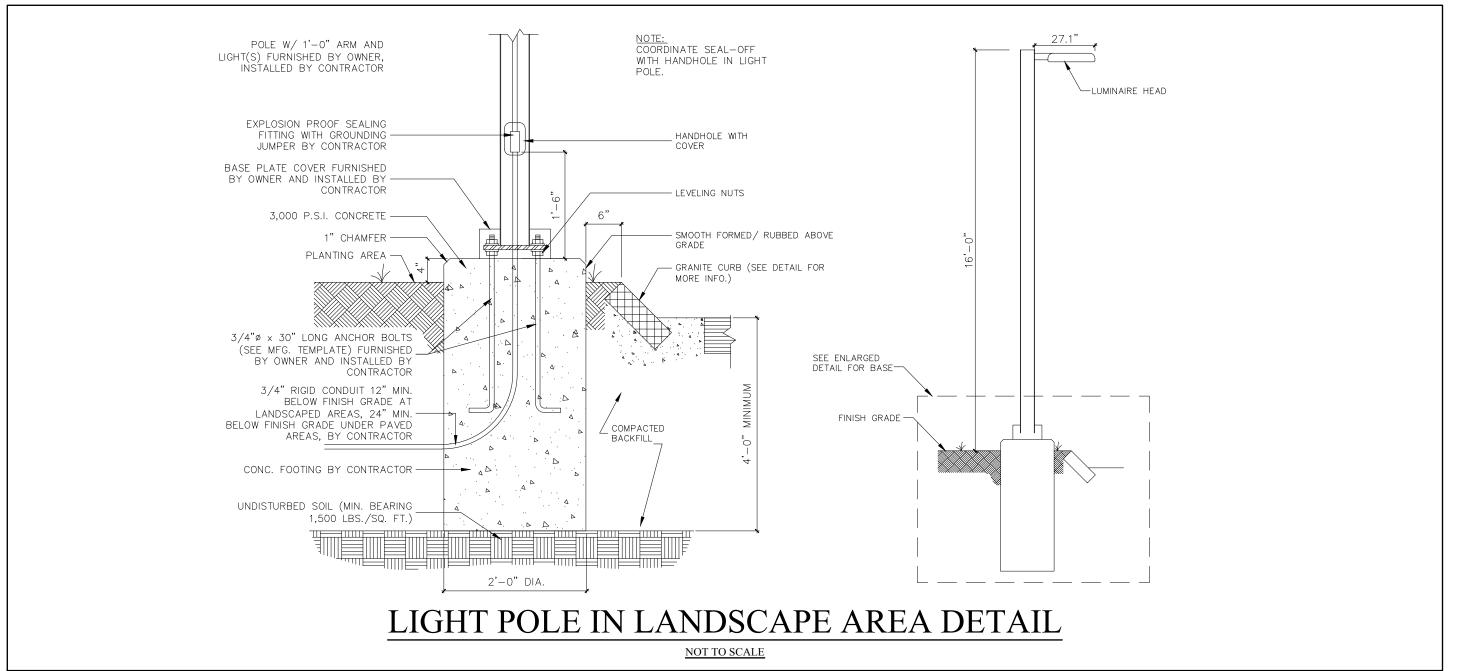
TYPICAL PERMANENT ROADWAY TRENCH REPAIR DETAIL

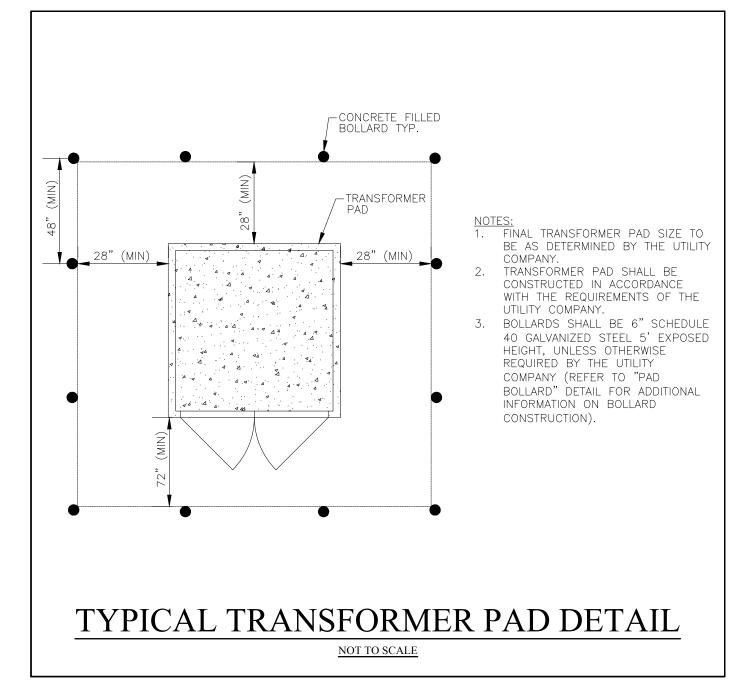
PAVEMENT TIE-IN DETAIL

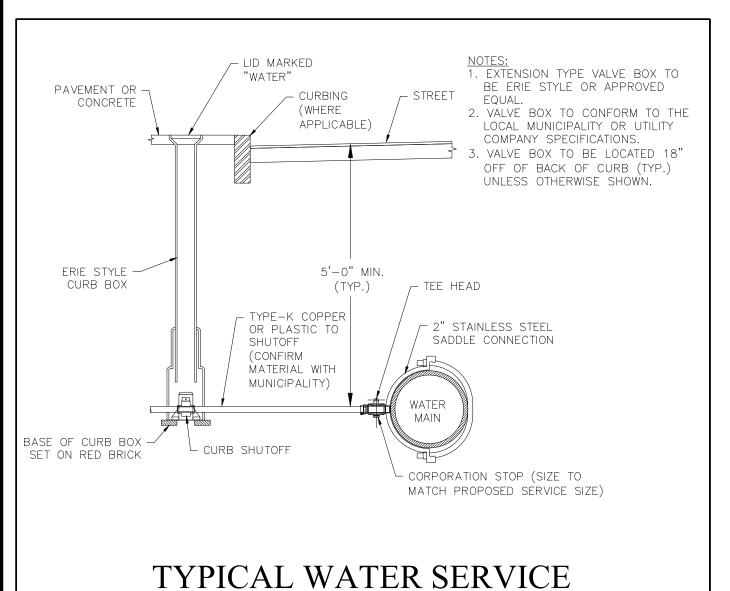
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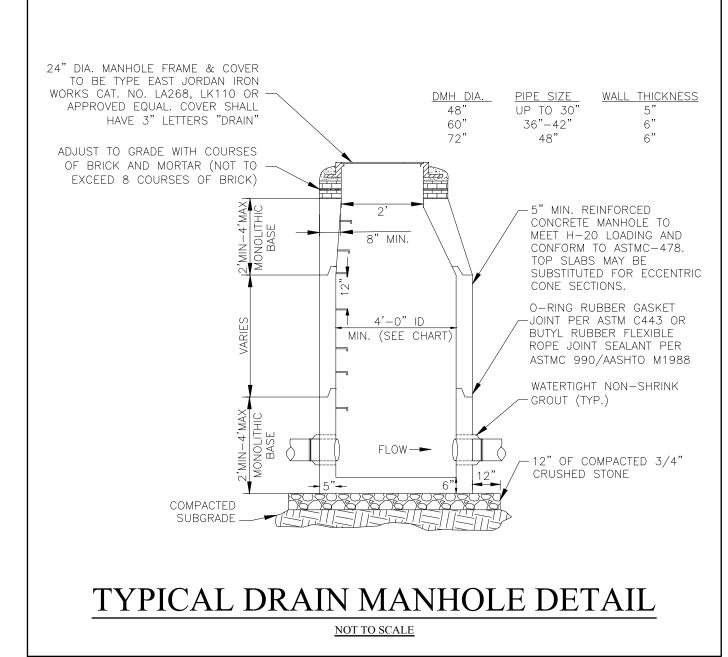


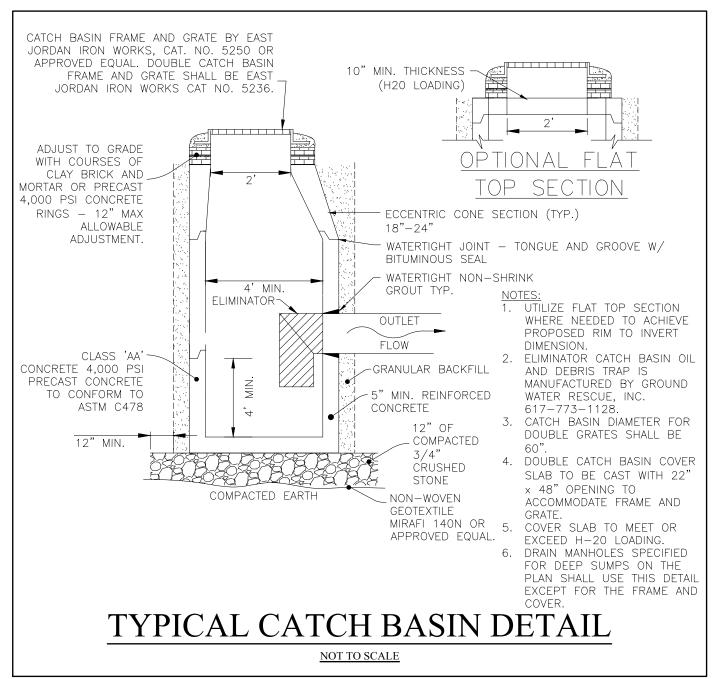


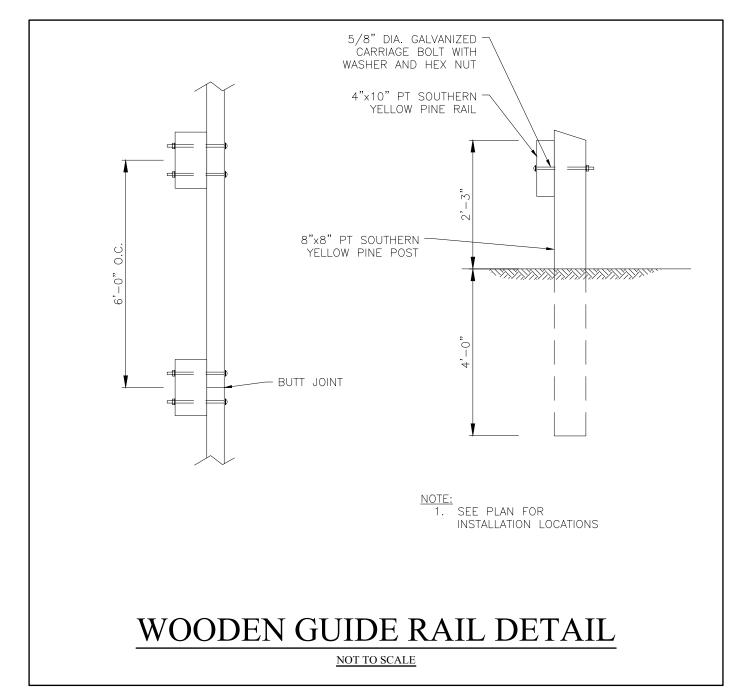


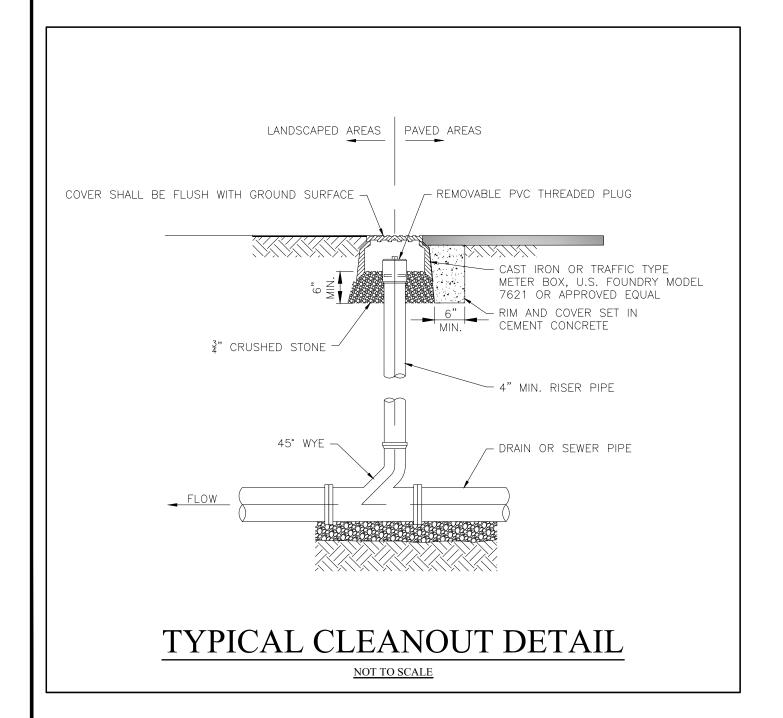
CONNECTION DETAIL

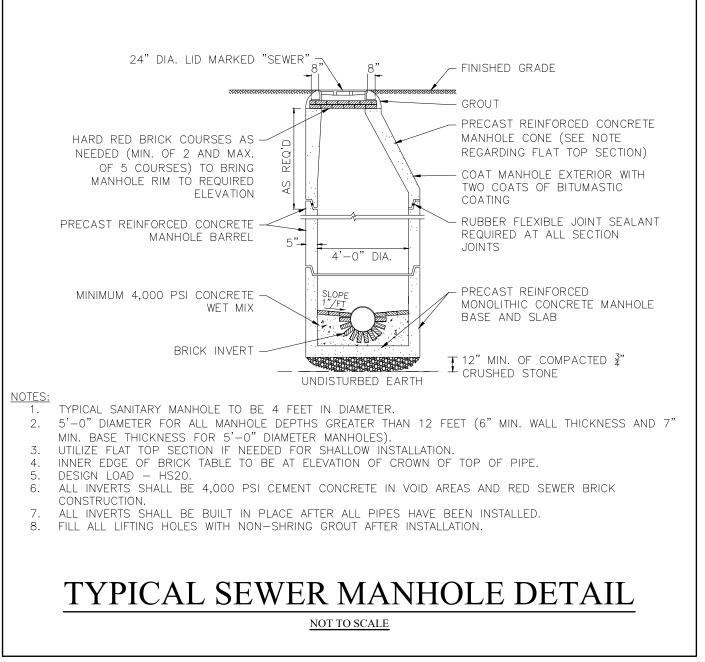
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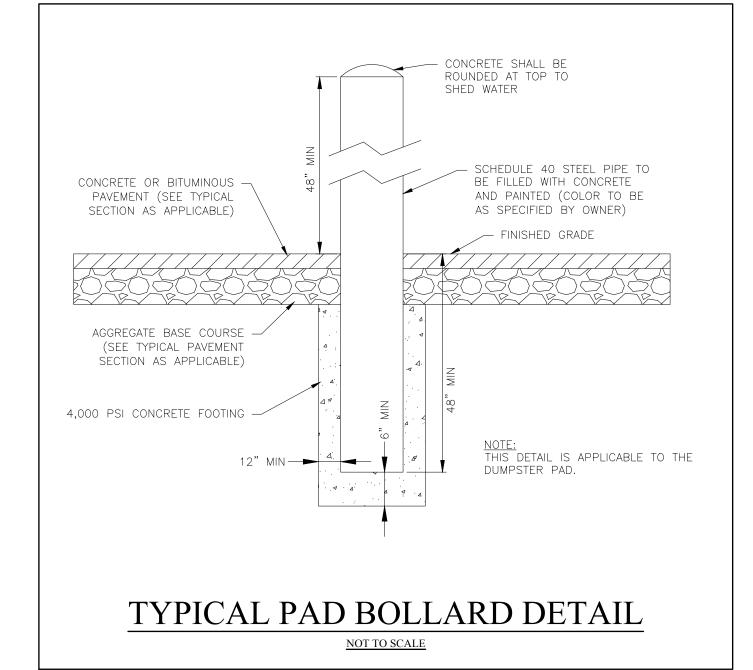


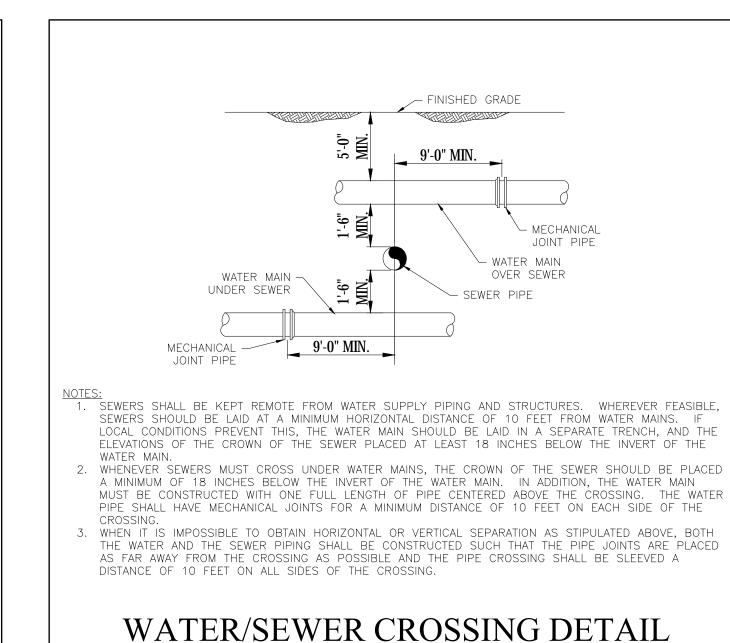




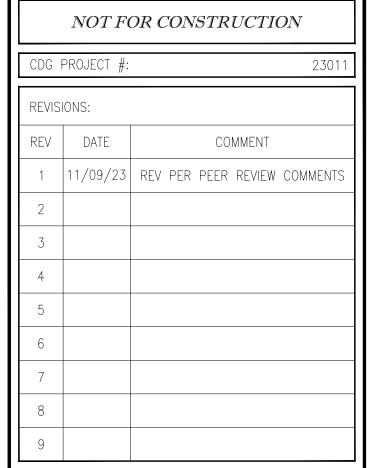


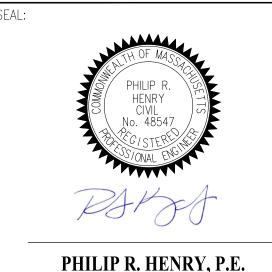






NOT TO SCALE





PLANNING BOARD:

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PREPARED FOR:

IVIL ENGINEER:

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> 3 MICHAUD DRIVE FRAMINGHAM, MA 01701

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PROPOSED CAR WASH DEVELOPMENT

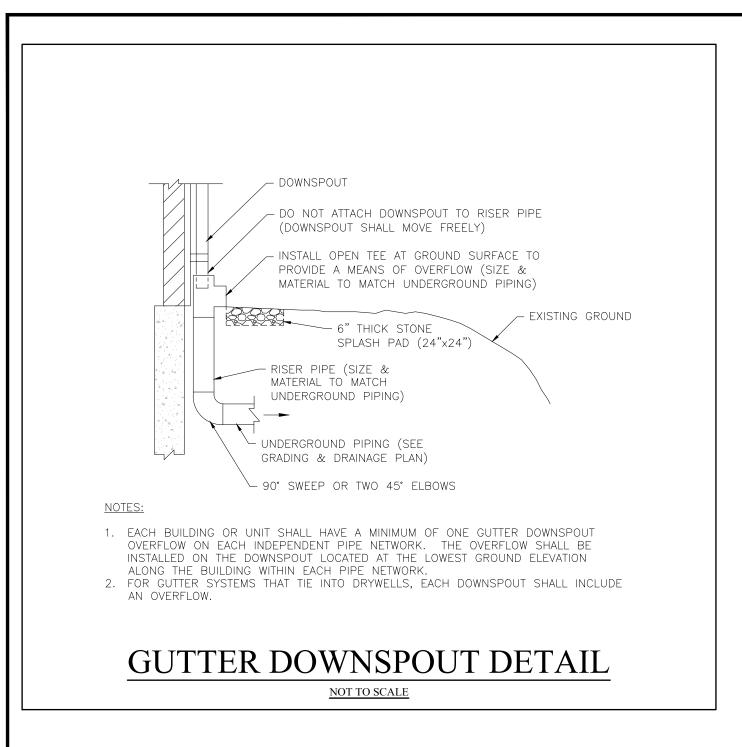
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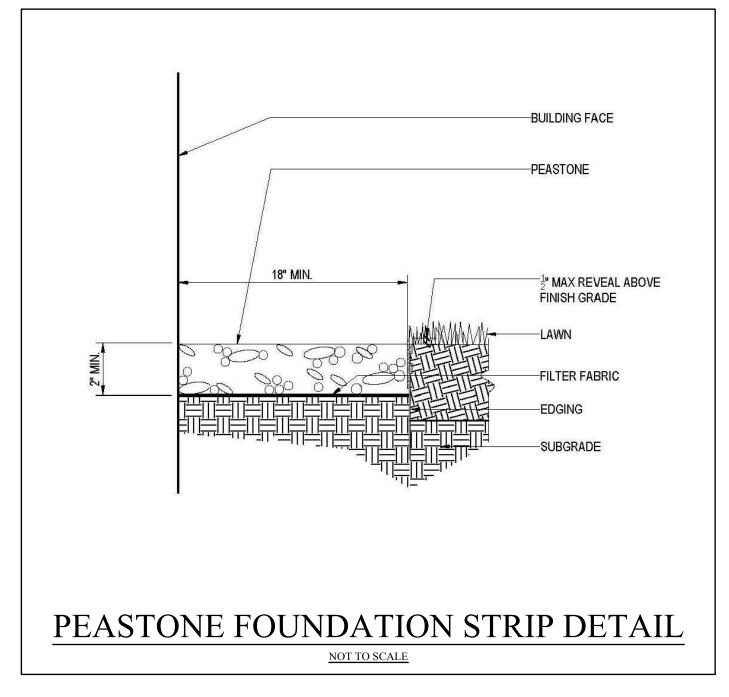
SCALE.

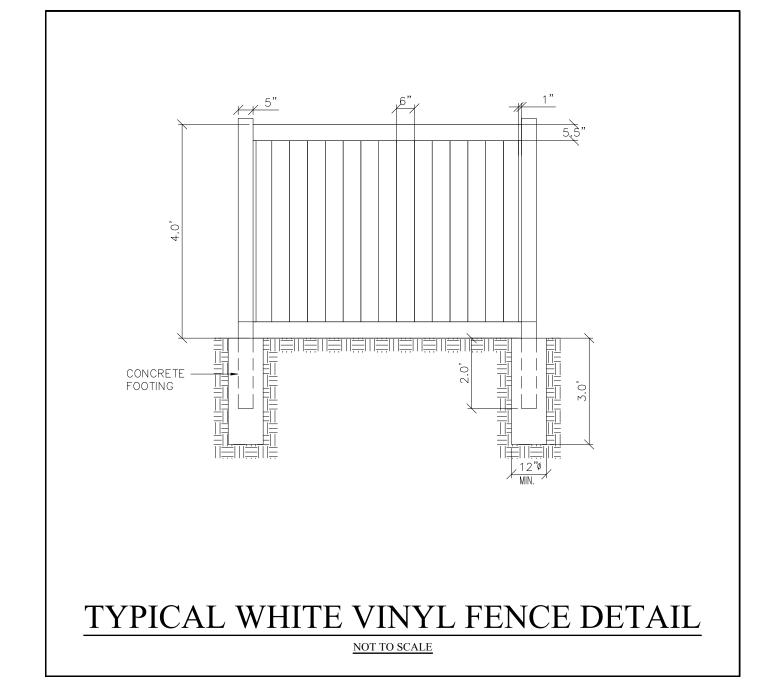
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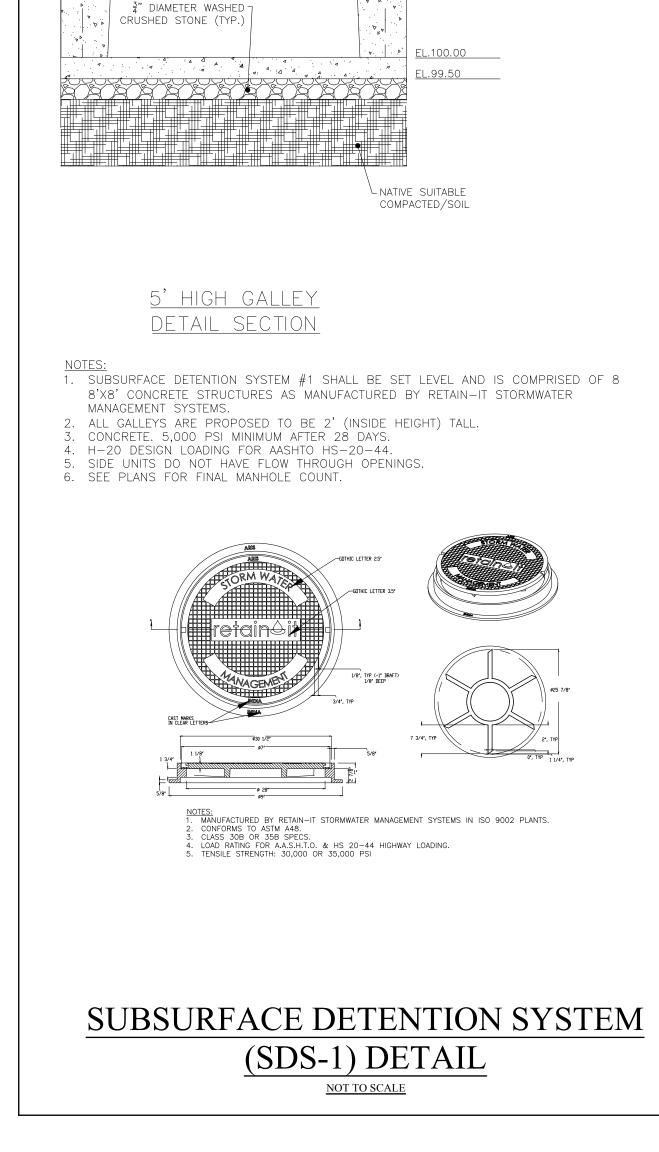
CONSTRUCTION DETAILS

9





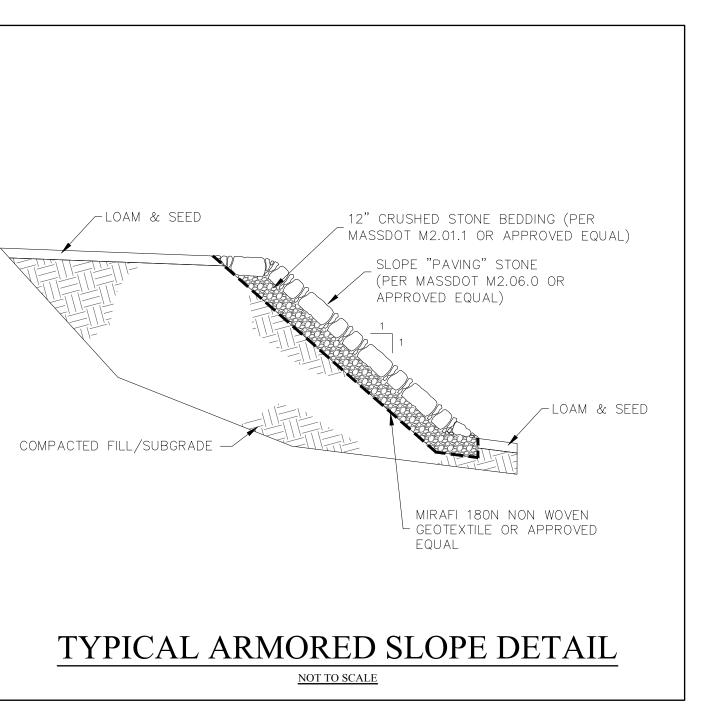


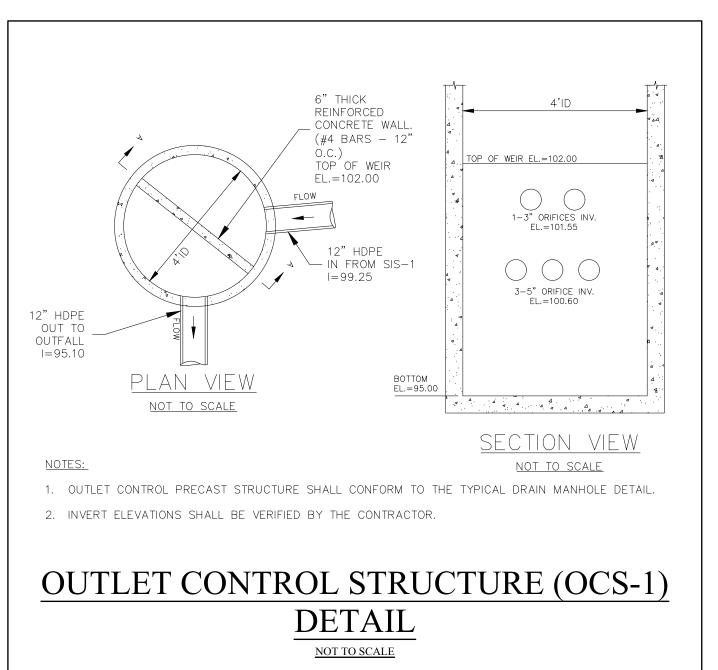


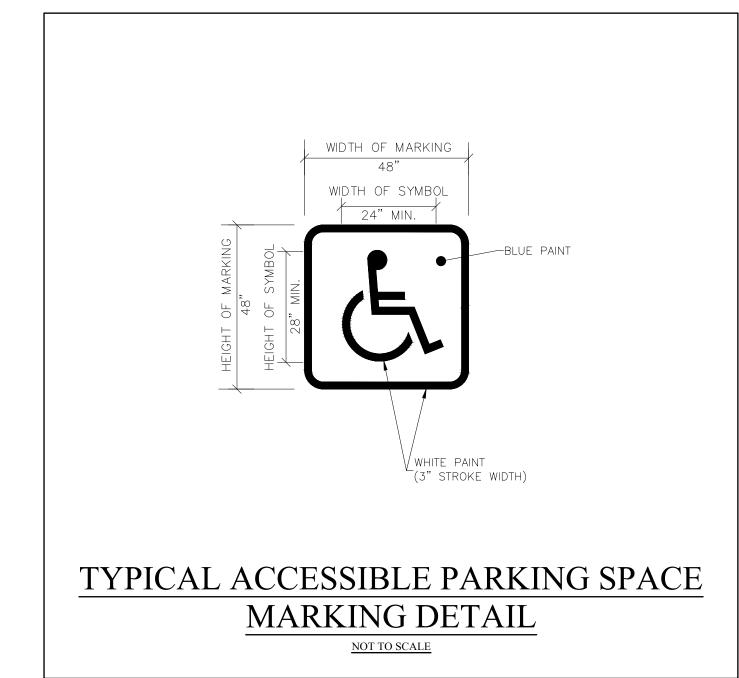
FINISH GRADE 7

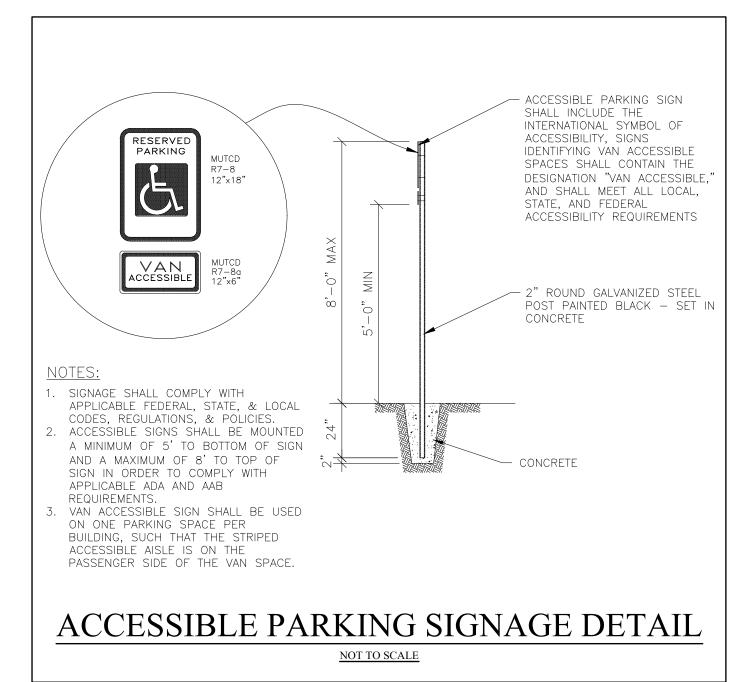
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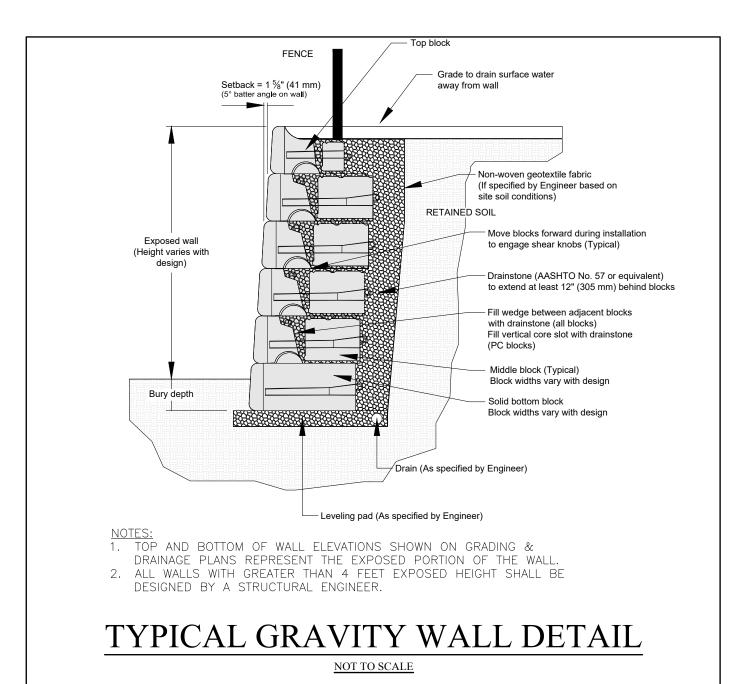
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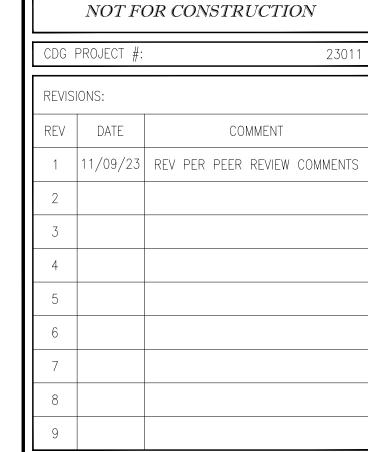














PHILIP R. HENRY, P.E.

PLANNING BOARD:

IVIL ENGINEER:

CIVIL DESIGN GROUP, LLC

21 HIGH STREET, SUITE 207 NORTH ANDOVER, MA 01845 www.cdgengineering.com p: 978-794-5400 f: 978-965-3971

REPARED FOR:

1650 WASHINGTON STREET, LLC

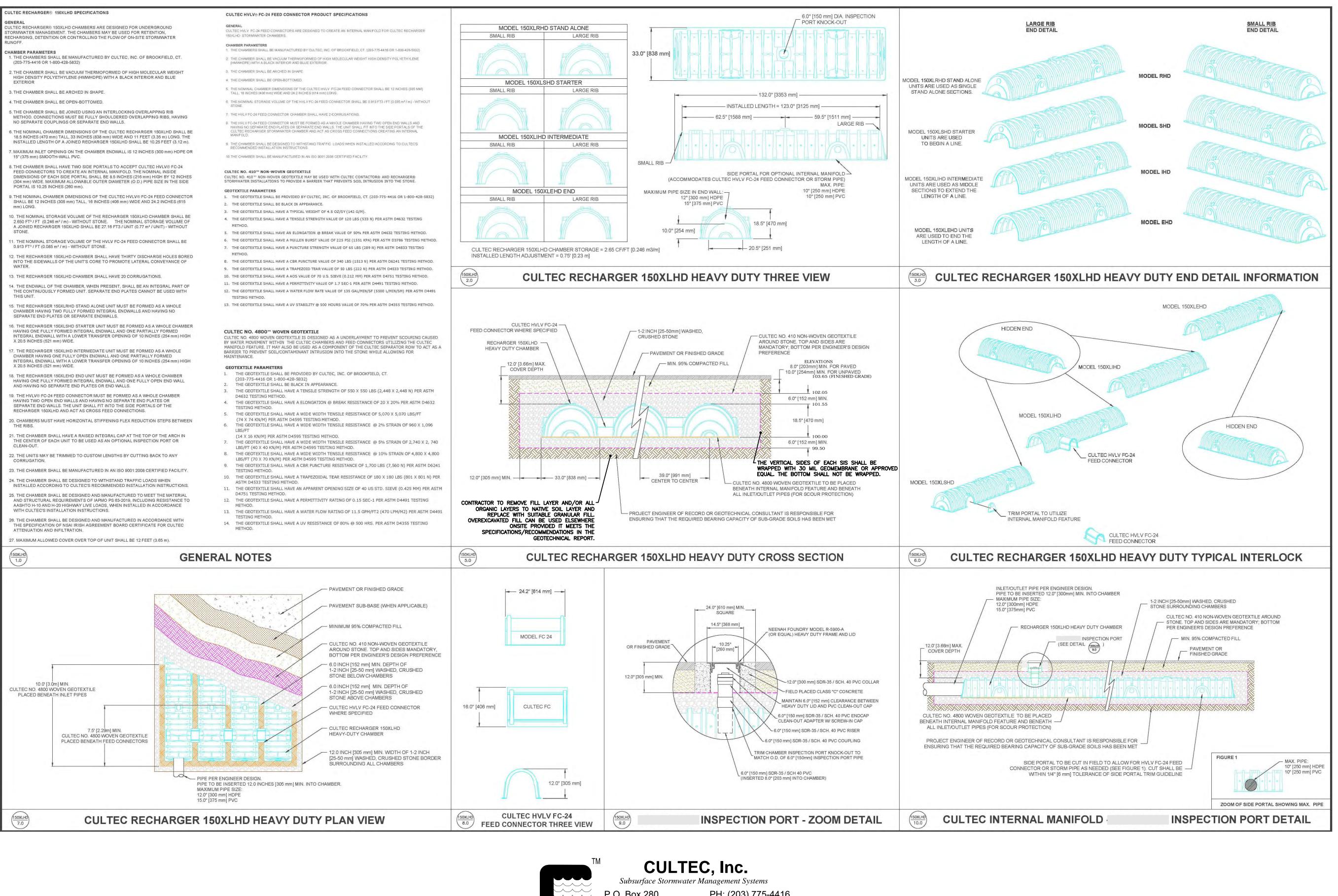
3 MICHAUD DRIVE FRAMINGHAM, MA 01701

PROPOSED CAR WASH **DEVELOPMENT**

1650 WASHINGTON STREET (RT-16) **HOLLISTON, MA 01746**

AS NOTED

CONSTRUCTION **DETAILS**



REPARED FOR: STREET, LLC 3 MICHAUD DRIVE FRAMINGHAM, MA 01701 **HOLLISTON, MA 01746 AS NOTED DETAILS**

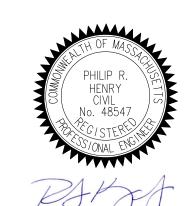
PH: (203) 775-4416 P.O. Box 280 878 Federal Road

PH: (800) 4-CULTEC FX: (203) 775-1462 Brookfield, CT 06804 CULTEC www.cultec.com tech@cultec.com

CULTEC RECHARGER150XLHD DETAILS

NOT FOR CONSTRUCTION

)G PROJECT #: REVISIONS: COMMENT 11/09/23| REV PER PEER REVIEW COMMENT



PHILIP R. HENRY, P.E.

LANNING BOARD:

CIVIL DESIGN TROUP, LLC

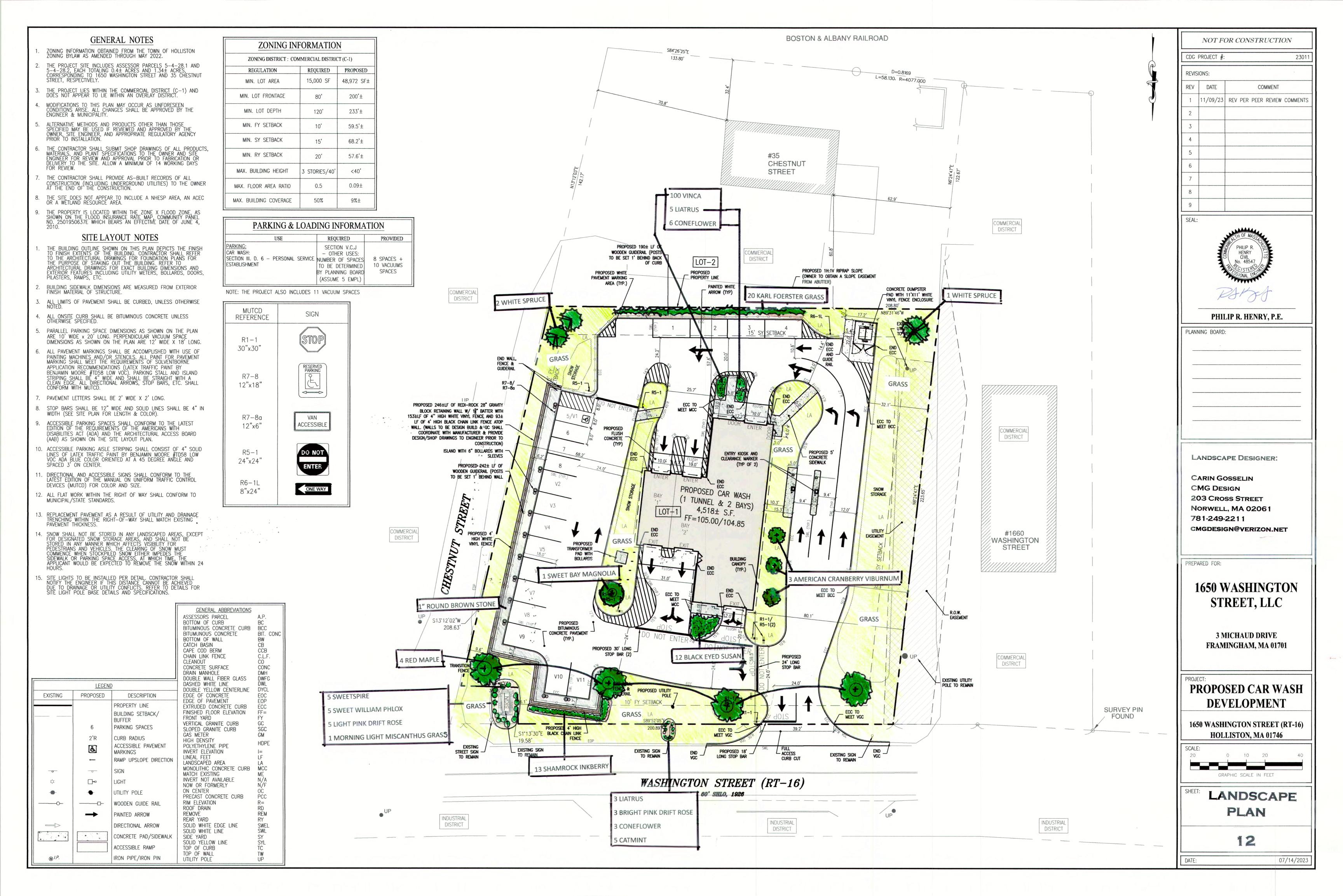
21 HIGH STREET, SUITE 207 NORTH ANDOVER, MA 01845 www.cdgengineering.com p: 978-794-5400 f: 978-965-3971

1650 WASHINGTON

PROPOSED CAR WASH **DEVELOPMENT**

1650 WASHINGTON STREET (RT-16)

CONSTRUCTION



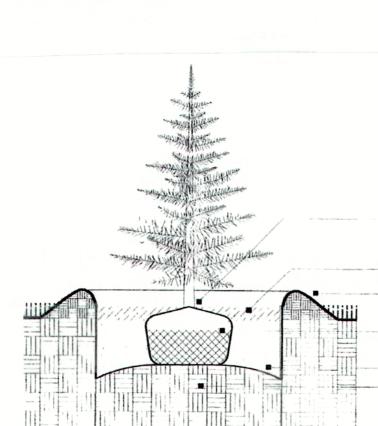
NOTE: ON PLANTING SLOPES GREATER THAN 3:1, 1/2" JUTE MESH SHALL BE PEGGED

GROUNDCOVER PLANTING NOT TO SCALE

THIN BRANCHES BY 1/3 RETAINING NORM

BARK MULCH 75mm (3") MIN. CREATE SAUCER WITH TOPSOIL 150mm (6

ROPES AT TOP OF BALL SHALL BE CUT. RE TOP 1/3 OF BURLAP. NON-BIODEGRADABL MATERIAL SHALL BE TOTALLY REMOVED. GENTLY COMPACTED TOPSOIL MIXTURE TAMPED ADMIXTURE BACKFILL

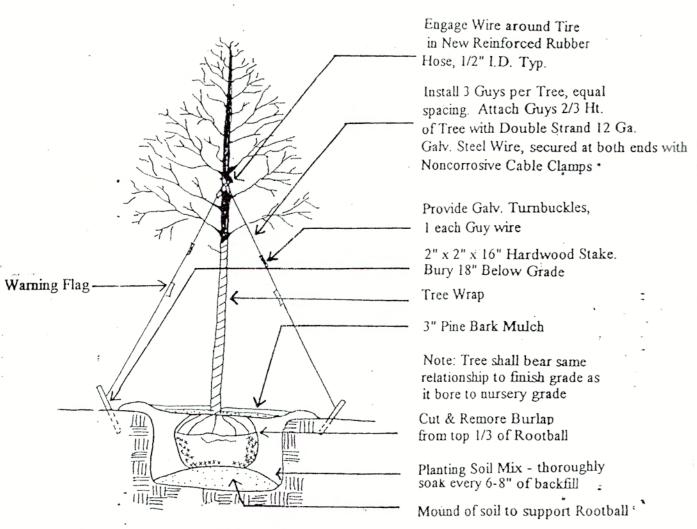


CROWN OF ROOT BALL SHALL BEAR SAME RELAT (OR SLIGHTLY ABOVE) TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.

PINE BARK MULCH 75mm (3") MIN. CREATE SOIL SAUCER WITH TOPSOIL 150mm (6")

REPARED ADMIXTURE BACKFILL OR NATIVE SOIL

FOLD DOWN OR CUT AND REMOVE TOP 1/3 OF BUI IF NON-BIODEGRADABLE WRAP IS USED. REMOVI PREPARED SOIL BACKFILL



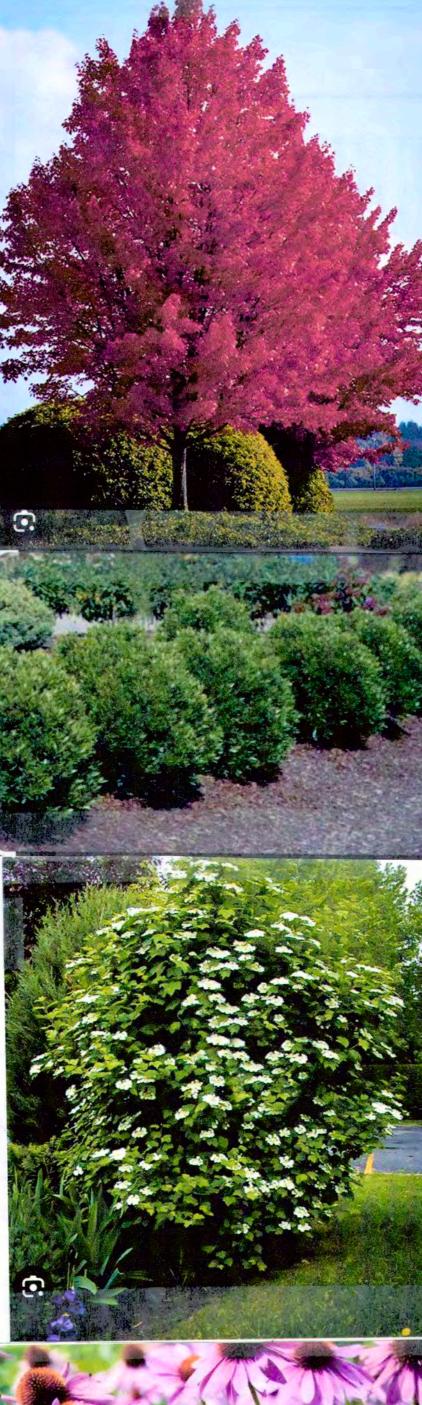
Deciduous Tree Planting & Guying

Notes & Goals:

To create a landscape that maximizes and retains open space.

2X BALL DIA. MIN.

- Using native and drought tolerant species of plants.
- To provide open areas for snow storage on site.
- To provide street trees, such as the Red Maple that are tolerant to many conditions such as salt/sand and plowing in the winter, drought tolerant, and easy to maintain. The Red Maple trees maintain a neat, oval canopy, not getting too large. Setting them back off the street will allow for open view points and keep back from the utility poles on site.
- The existing street signs will remain and be planted with a hardy, neat, colorful landscapes around them.
- Provide low growing plants near the exit and entrances to the car wash so all site lines are kept open for vehicles and pedestrians. This can be done with long time, low growing, native perennials.
- Provide seasonal color with evergreens, that also provide shelter for birds in the winter, and Spring, Summer and Fall flowers that will also be pollinators for birds, butterflies, bees, and hummingbirds. There will be plants that bloom early in the Spring right until Frost. With continual color throughout the seasons, this property will always provide a welcoming atmosphere.
- To provide a easy to maintain, drought tolerant, with a nice neat appearance so this property will always look tidy and appealing to the customers and pedestrian/vehicular traffic on Washington Street.





Plant Schedule

Qty. Latin Name

Acer rubrum 'October Glory' Calamagrostis Karl Foerster Echinacea 'White Swan'

Ilex glabra 'Shamrock'

Magnolia virginiana Miscanthus sinensis Morning Light Nepeta 'Cat's Meow' Phlox paniculata Picea glauca Rosa Drift Bright Pink Rosa Drift Light Pink Rudbeckia Goldstrum Viburnum trilobum

Vinca minor

October Glory Red Maple Karl Foerster Feather Reed Grass White Coneflower Purple Coneflower Liatris Dwarf Inkberry Sweet Bay Magnolia Morning Light Miscanthus Cat Mint

Common Name

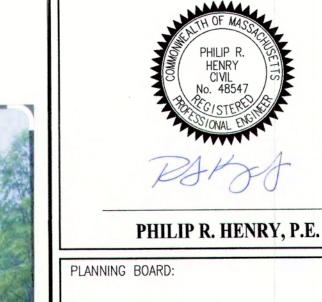
Sweet William Phlox White Spruce Bright Pink Drift Rose Light Pink Drift Rose

Black Eyed Susan Highbush Cranberry Viburnum Common Periwinkle

B&B 2.5-3"c. Red fall leaves, oval canopy, native, very tolerant CONT 3 Gal. Upright habit, 3'H, very neat, drought tolerant and hardy CONT 1 Gal. 24-30"H, perennial, sun loving, June-frost, elegant CONT 1 Gal. 24"H, Native, drought tolerant, flowers until Frost CONT 1 Gal. 2-3'H, spreading perennial, purple flowers July-Sept. Native

CONT 3 Gal. Native, rounded, hardy, evergreen hedge, no care, neat habit CONT 2 Gal. Native, white drooping flowers, bright red fall leaves, hardy B&B 7-8' White spring flowers, native, beautiful white spring flowers CONT 2 Gal. 3-4', Variegated thin leaves, silvery arching grass, very hardy CONT 1 Gal. 12-18"H, Lavender flowers May-Sept., spreading, sun-semi CONT 1 Gal. 24-30"H, various colors, July-August, perennial, native B&B 7-8' Evergreen, very tolerant, native, stays dense CONT 2 Gal. Small shrub, pink double blossoms, easy care, hardy

CONT 2 Gal. Color from June until Frost, very hardy, likes full sun CONT 1 Gal. Yellow flowers, dark center, 24"H, sun, Aug-frost, native CONT 5 Gal. 8-10'H, white spring flowers, red fruit late summer, native TRAY 25/tray Evergreen groundcover, purple flowers, hardy, native



NOT FOR CONSTRUCTION

11.8.23 6" TOPSOIL SPEC.

COMMENT

CDG PROJECT #:

REVISIONS:

REV DATE

LANDSCAPE DESIGNER:

CMG DESIGN 203 CROSS STREET NORWELL, MA 02061 781-249-2211

PREPARED FOR:

1650 WASHINGTON STREET, LLC

3 MICHAUD DRIVE FRAMINGHAM, MA 01701

PROPOSED CAR WASH **DEVELOPMENT**

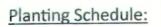
1650 WASHINGTON STREET (RT-16) HOLLISTON, MA 01746

AS NOTED

LANDSCAPE

13

DETAILS



Planting may commence as soon as the ground has thawed at the nursery, and at the site of planting, and weather conditions make it practicable to work both at the nursery and at the site.

Planting shall not occur any later than the following:

Sept 1- Nov 1 July 15 Deciduous Trees and Shrubs Sept 1- Nov 1 June 30 **Evergreen Trees and Shrubs**

A minimum of six inches (6") of topsoil shall be placed on all disturbed surfaces which are proposed to be planted.

Mulch shall be 100% fine-shredded dark pine back of uniform size applied to a uniform depth of 3".

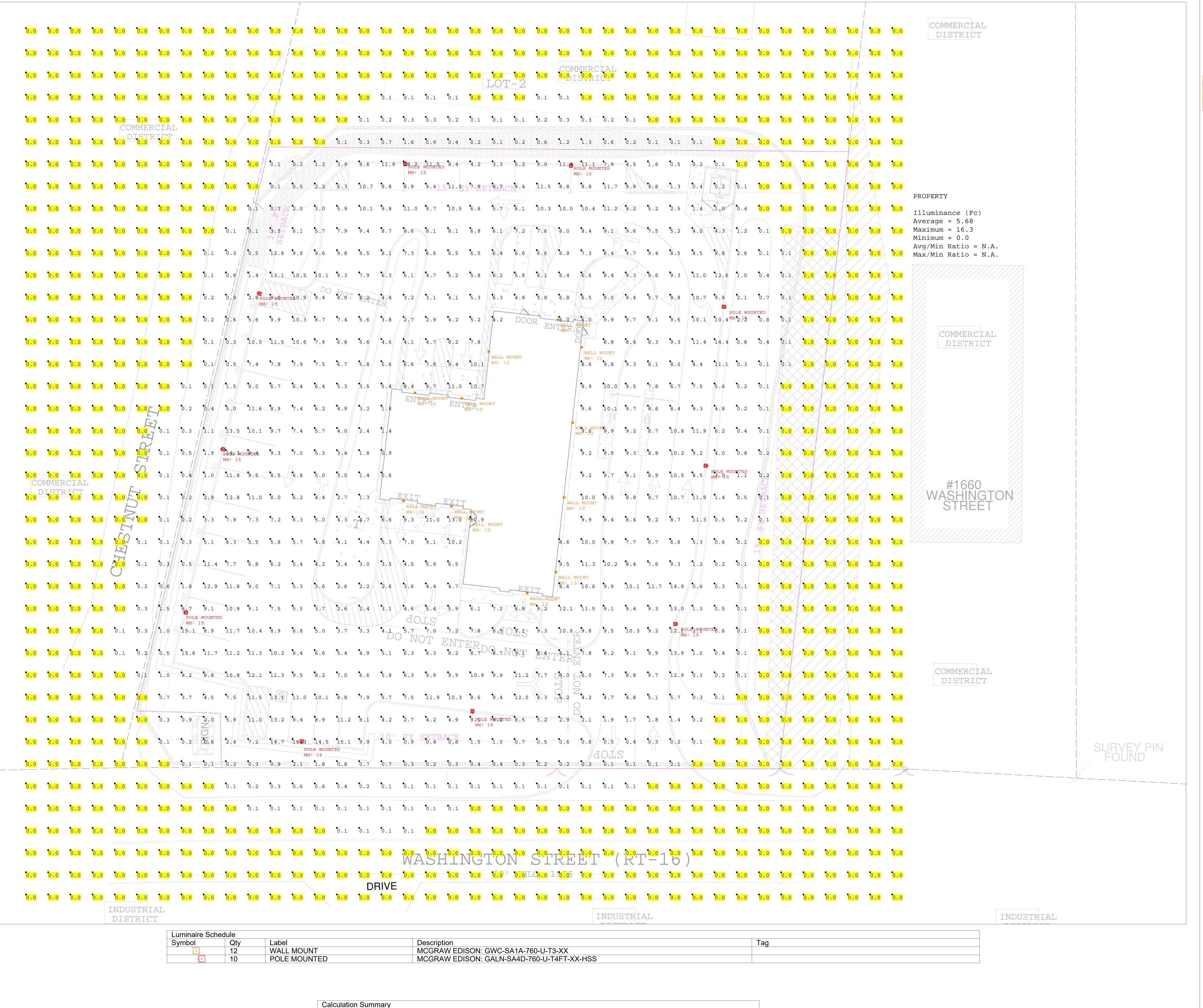
Seeding:

Seeding shall be hydroseeded.

Composed of the following varieties, mixed to the specified proportions.

70% Kentucky Blue grass 15% Chewings Fescue 15% Creeping Red Rescue

Seeding Rate 3 lbs/1000 sq ft.



Avg/Min

N.A.

N.A.

16.3 16.3

0.0

0.0

2.61

5.68

Fc

Label

PROPERTY

Max/Min

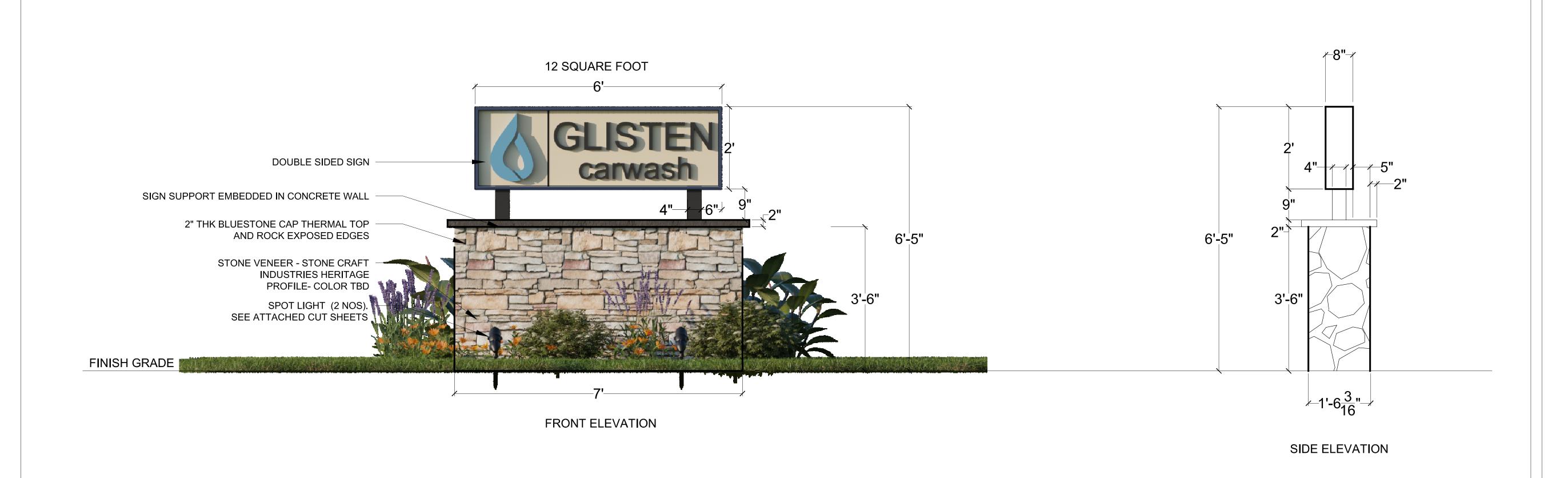
N.A.

N.A.

1650 WA CAR WA

SHINGTON

ER: CALCULATIONS SHOULD BE USED AS A GUIDE ONLY EVELS ARE SUBJECT TO CONDITIONS IN THE FIELD.



Central Distribution Center

Lithia Springs, GA 30122

1600 Distribution Ct

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. MAY 19 2021

Headquarters/Eastern Distribution Center

44 Harbor Park Drive

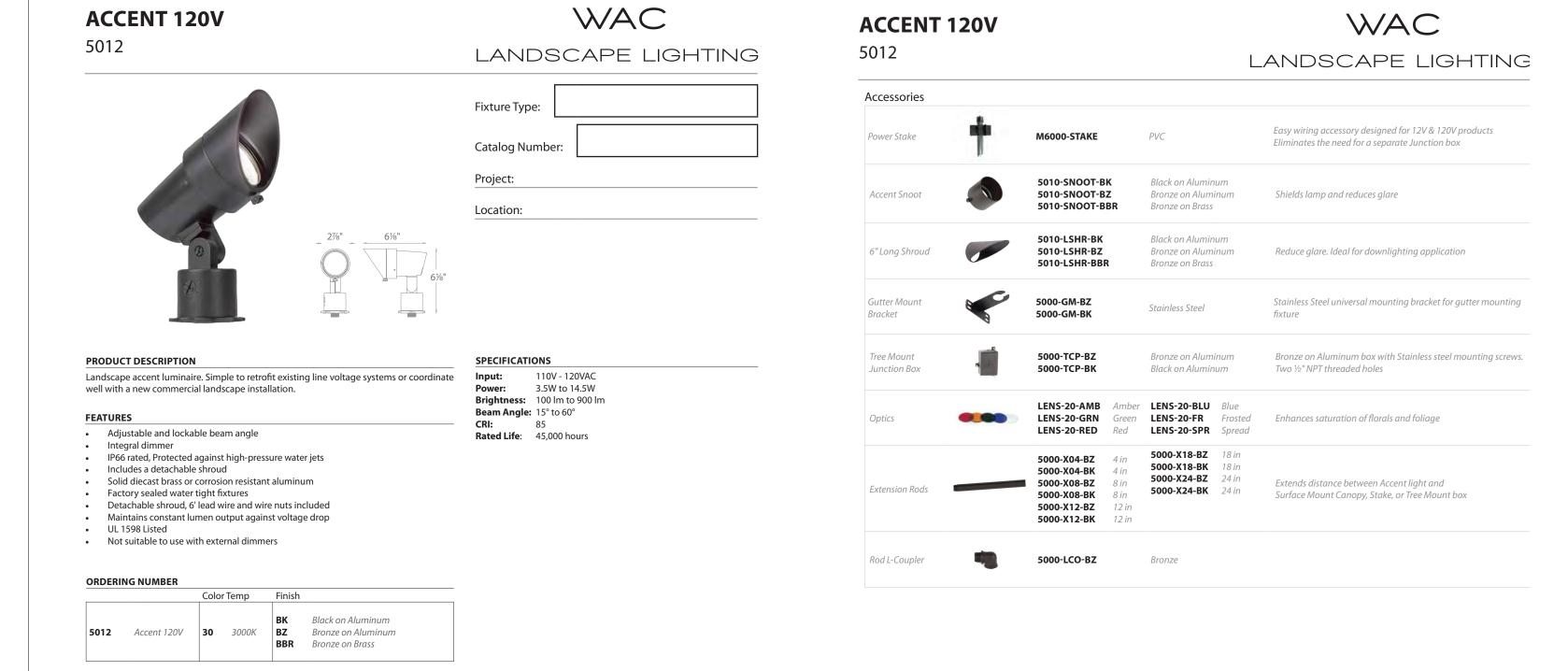
Port Washington, NY 11050

Western Distribution Center

1750 Archibald Avenue

Ontario, CA 91760





waclighting.com

Phone (800) 526.2588

Fax (800) 526.2585

5012-30Example: **5012-30BBR**

waclighting.com

Phone (800) 526.2588

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Headquarters/Eastern Distribution Center

44 Harbor Park Drive

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Western Distribution Center

1750 Archibald Avenue

Ontario, CA 91760

SCALE: 0' - 3/4": 1'-0"

CARWASH SIGN -DETAILS

DATE: 11/09/2023

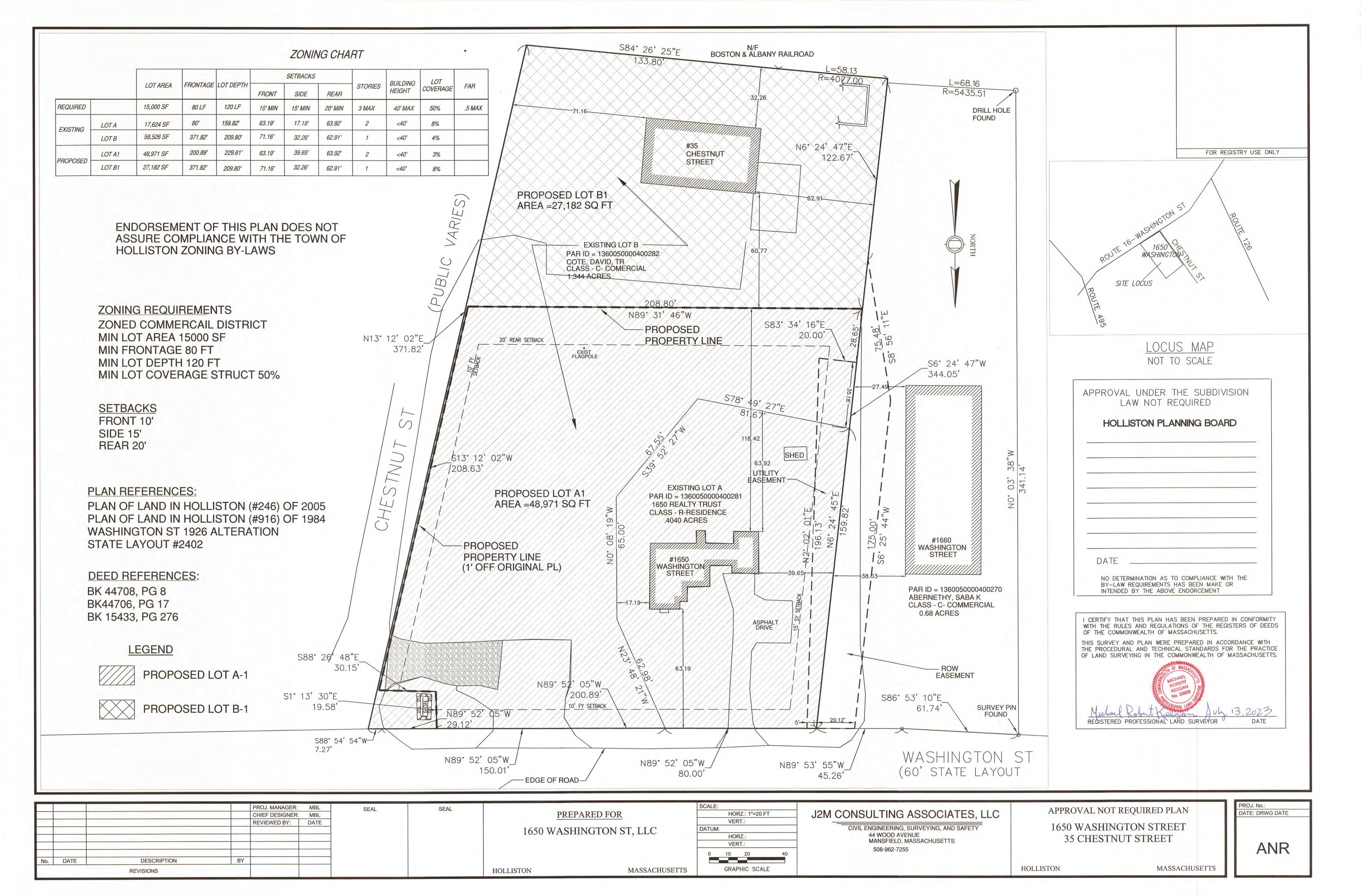




SCALE: 0' - 1/2": 1'-0"

CARWASH SIGN -DETAILS

DATE: 11/09/2023







Consultant:

Revision:

Architect of Record:

Drawn: Author

Checked: Checker

Scale: Key Plan:

Project Name:
CAR WASH @
HOLLISTON

1650 WASHINGTON ST, HOLLISTON

Sheet Name:

COVER PAGE

Project Number:

2023-002

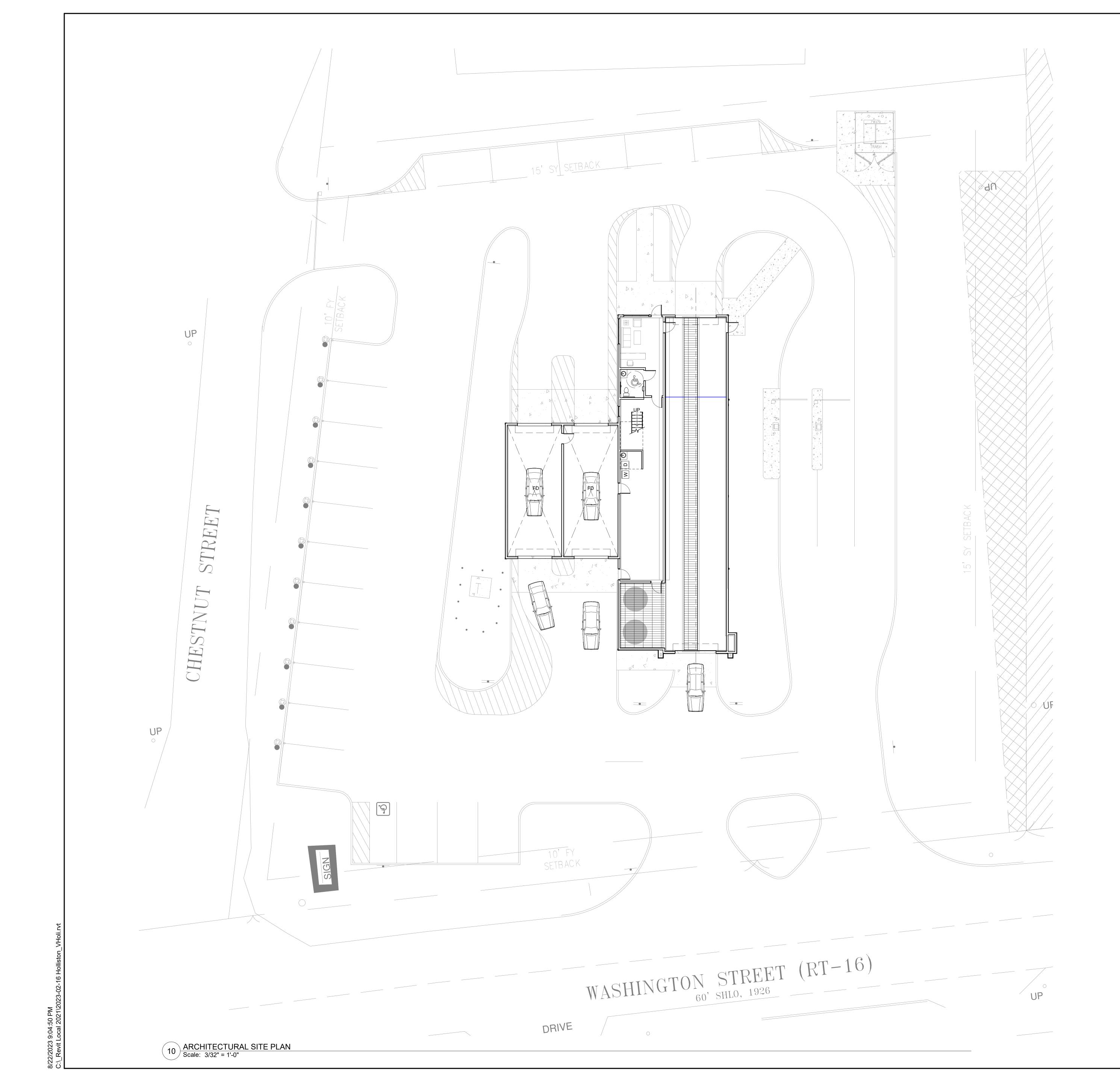
Issue Date:

08/22/2023

Sheet Number:

0.01

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SHEET NUMBER	SHEET NAME	SUBMISSION 01	SUBMISSION 02	SUBMISSION 03	SUBMISSION 04
T0.01	COVER PAGE				
A0.01	ARCHITECTURAL SITE PLAN				
A1.01	FLOOR PLANS				
A1.02	FLOOR PLANS				
A1.03	BUILDING ELEVATIONS				
A1.03.	EXTERIOR ELEVATIONS				
A1.04.	EXTERIOR ELEVATIONS				

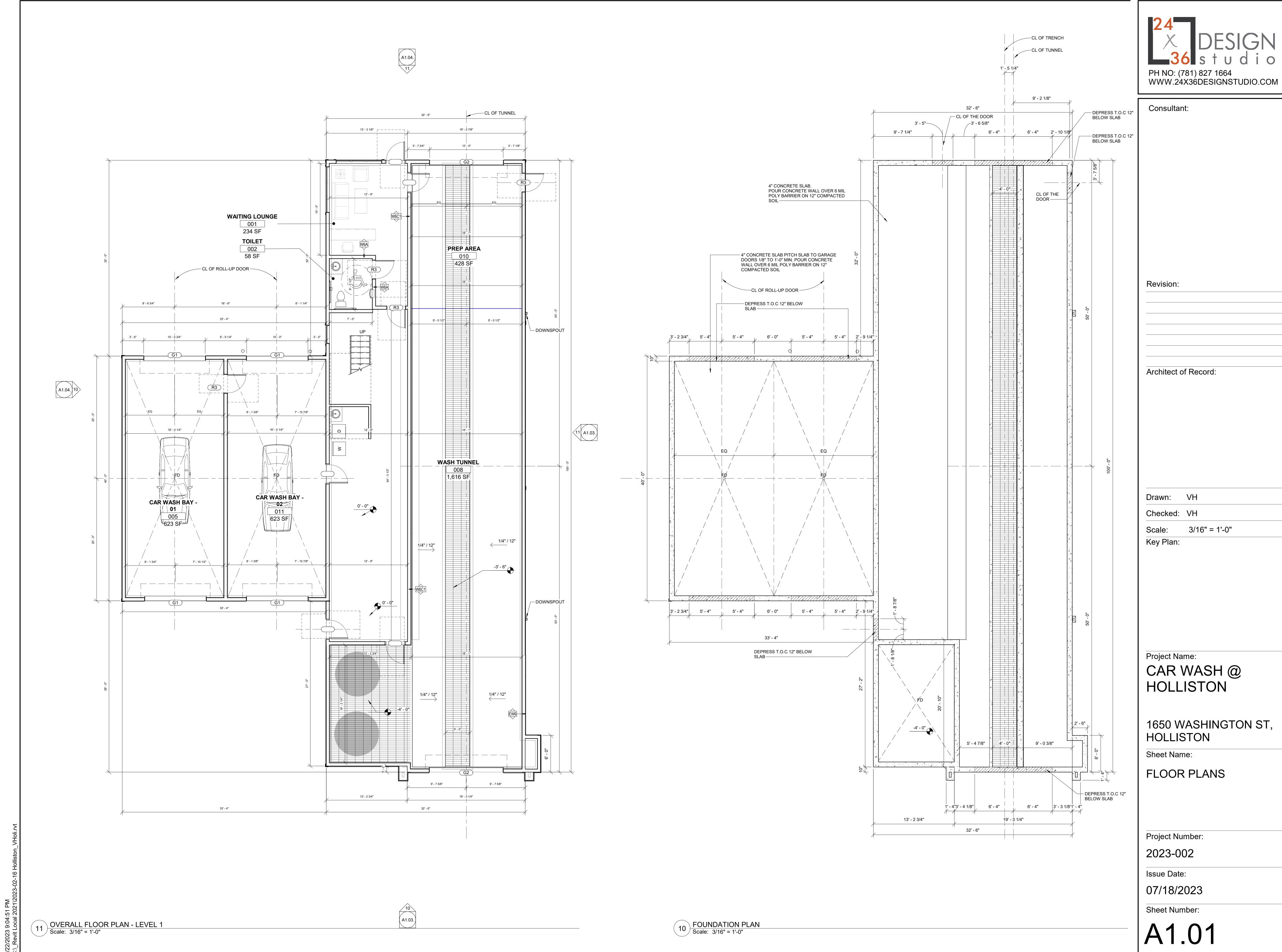


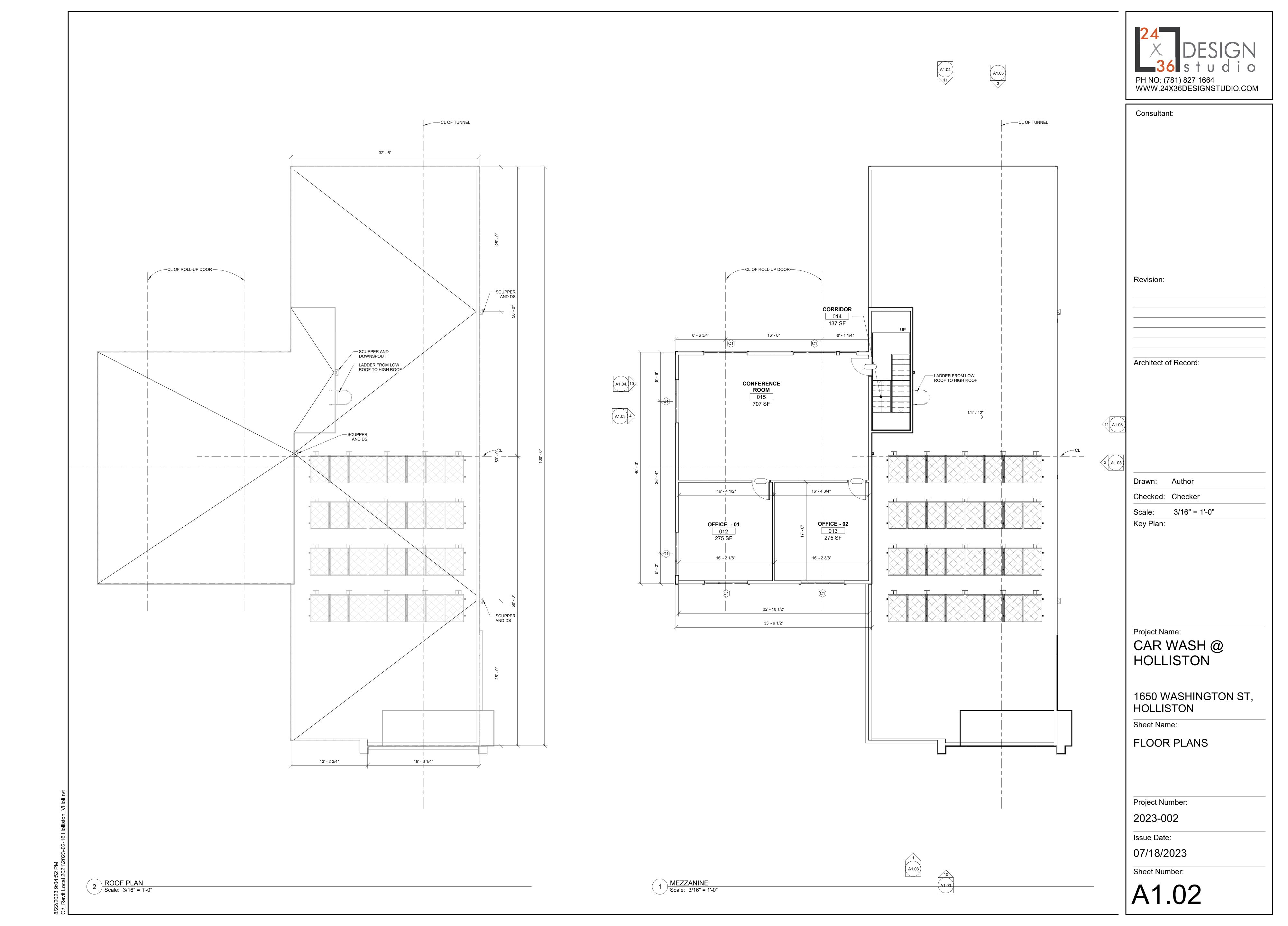


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Architect of	of Record:
Drawn:	VH
Checked: Scale:	3/32" = 1'-0"
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	WASH @
HOLL	ISTON
	VASHINGTON ST,
HOLLIS Sheet Nar	
	TECTURAL SITE
PLAN	
Project Nu 2023-0	
Issue Date	
07/18/2	2023

A0.01

Sheet Number:







Consultant:

OVERALL FLOOR PLAN - LEVEL 7
31' - 0" TRUSS BEARING 26' - 0" TRUSS BEARING @ HIGH ROOF 22' - 6" TOP OF CMU. (PARAPET WALL)
17' - 6" car wash MEZZANINE 13' - 6" LEVEL 1 0' - 0" FOOTING -4' - 8"

Architect of Record:

Revision:

Drawn: Author Checked: Checker

3/16" = 1'-0"

Key Plan:

11 SIDE ELEVATION - 01 Scale: 3/16" = 1'-0"



Project Name:

1650 WASHINGTON ST, HOLLISTON

EXTERIOR ELEVATIONS

Project Number:

2023-002

08/22/23

Sheet Number:

10 FRONT ELEVATION
Scale: 3/16" = 1'-0"



Consultant:

	TRUSS BEARING 26' - 0" TRUSS BEARING @ HIGH ROOF 22' - 6"
	TOP OF CMU. (PARAPET WALL) 17' - 6" MEZZANINE 13' - 6"
	LEVEL 1 0' - 0"

Revision:

Architect of Record:

Drawn: Author

Checked: Checker

Scale: 3/16" = 1'-0"

Key Plan:

Project Name:

CAR WASH @

HOLLISTON

1650 WASHINGTON ST, HOLLISTON

Sheet Name:

EXTERIOR ELEVATIONS

Project Number:

2023-002

Issue Date: 08/22/23

0' - 0"

Sheet Number:

A1.04.



SIDE ELEVATION
Scale: 3/16" = 1'-0"

REAR ELEVATION
Scale: 3/16" = 1'-0"

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