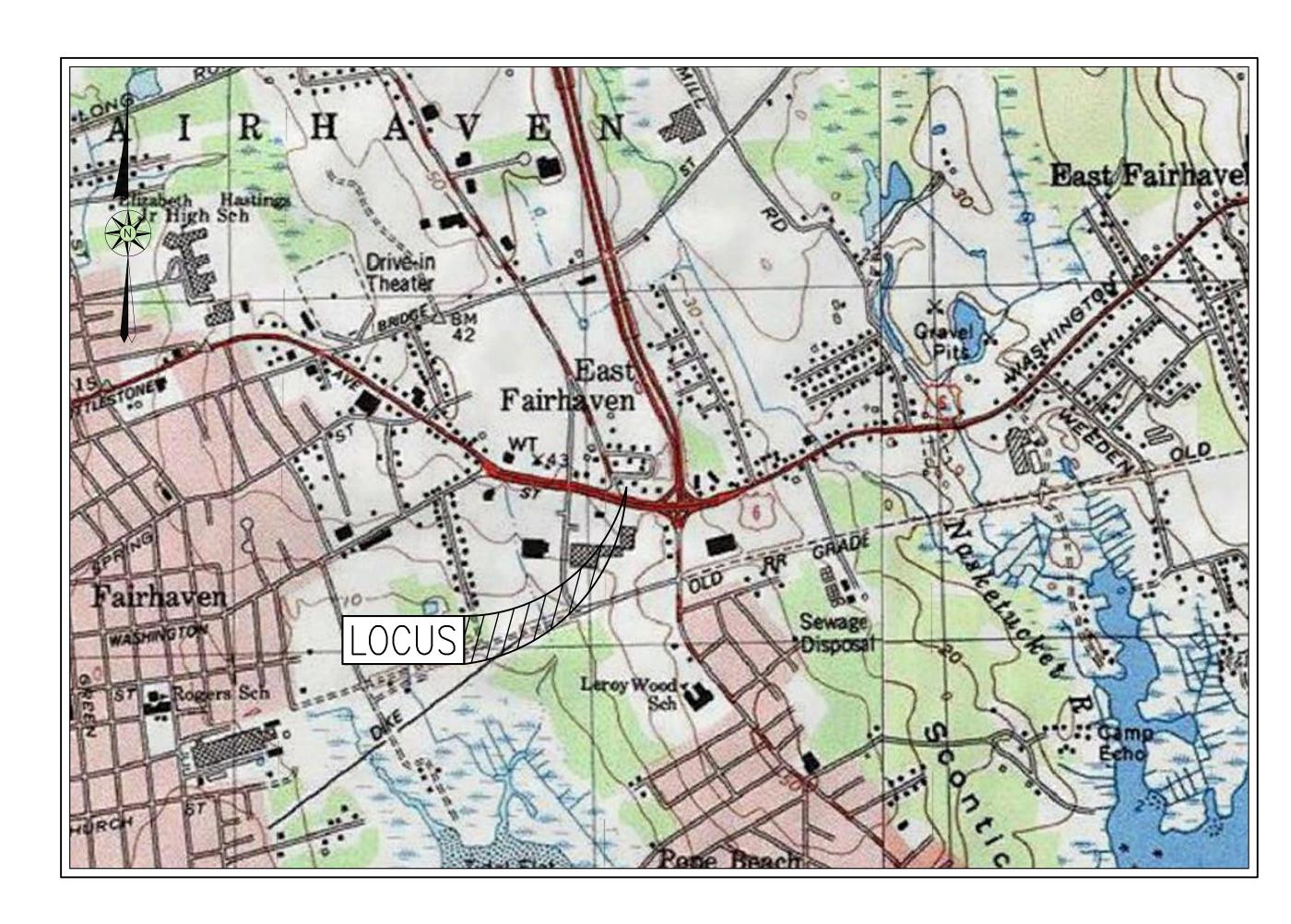
SITE PLAN-STARBUCKS



ASSESSORS MAP 26 # LOT # 13G & 13H FAIRHAVEN, MASSACHUSETTS

_	IN D E X —
SHEET	<u>DESCRIPTION</u>
1	COVER
2	EXISTING CONDITIONS
3	LAYOUT
4	GRADING & DRAINAGE
5	UTILITIES
6	LANDSCAPE & LIGHTING
7	NOTES & LEGEND
8-9	DETAIL
A101R	BUILDING FLOOR PLAN
A201-203	EXTERIOR ELEVATIONS



ZONIN	IG DATA	_				
DISTRICT: BUSINESS (B)						
<u>DESCRIPTION</u>	<u>REQUIRED</u>	EXISTING	<u>PROVIDED</u>			
LOT AREA	15,000 S.F.	34,944 S.F.	34,944 S.F.			
LOT FRONTAGE	100 FT	261.37 FT	261.37 FT			
FRONT SETBACK	* FT	38.22 FT	54.0 FT			
SIDE SETBACK	** FT	15.7 FT	42.2 FT			
REAR SETBACK	** FT	16.3 FT	32.0 FT			
BUILDING HEIGHT (MAXIMUM)	40 FT	18± FT	18± FT			
BUILDING COVERAGE (MAXIMUM)	25 %	10.8 %	7.0 %			
LOT COVERAGE (MAXIMUM)	70 %	91.1 %	72.0 %			
– PARKING F PRINCIPAL US	REQUIREMEN SE: RESTAURAN					
REQUIREMENT		REQURIED	<u>PROVIDED</u>			
1 SPACE PER 2.5 FIXED SEATS; IF SEATS ARE I SPACE PER 2.5 OCCUPANTS	NOT FIXED, ONE	15 SPACES	21 SPACES			

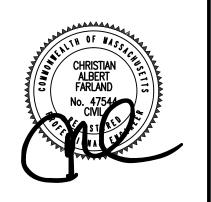
NOTES:

- * FRONT YARD REQUIREMENTS ESTABLISHED BY TOWN MEETING VOTES RECORDED ON PLATS ON FILE IN TOWN CLERK'S OFFICE. MINIMUM OF 20 FEET REQUIRED IF NONE SPECIFIED.
- ** WHEN ABUTTING A RESIDENCE DISTRICT, 10 FEET. NONE REQUIRED ELSEWHERE, PROVIDED THAT ACCESS TO THE REAR OF THE STRUCTURE AND SPACE FOR ANY REQUIRED OFF—STREET PARKING CAN BE GAINED BY OTHER MEANS.

——AREA MAP——
SCALE: 1"=1,000'±

REVISIONS

8/16/23 PLANNING BOARD COMME 8/31/23 PLANNING BOARD COMME





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154 HUTTLESTON AVENUE FAIRHAVEN, MA 02719

- ENGINEERING
- SITEWORKLAND SURVEYING

DRAWN BY: SC/SD
DESIGNED BY: SC/SD

DESIGNED BY: SC/SD
CHECKED BY: CAF/BM

TE PLAN
29 ALDEN ROAD
AP 26 LOT 13G & 13H
N, MASSACHUSETTS

FAIRHAVEN

PANAGAKOS DEVELOPMENT

133 FAUNCE CORNER RO

PRE

JUNE 27, 2023

SCALE: AS NOTED

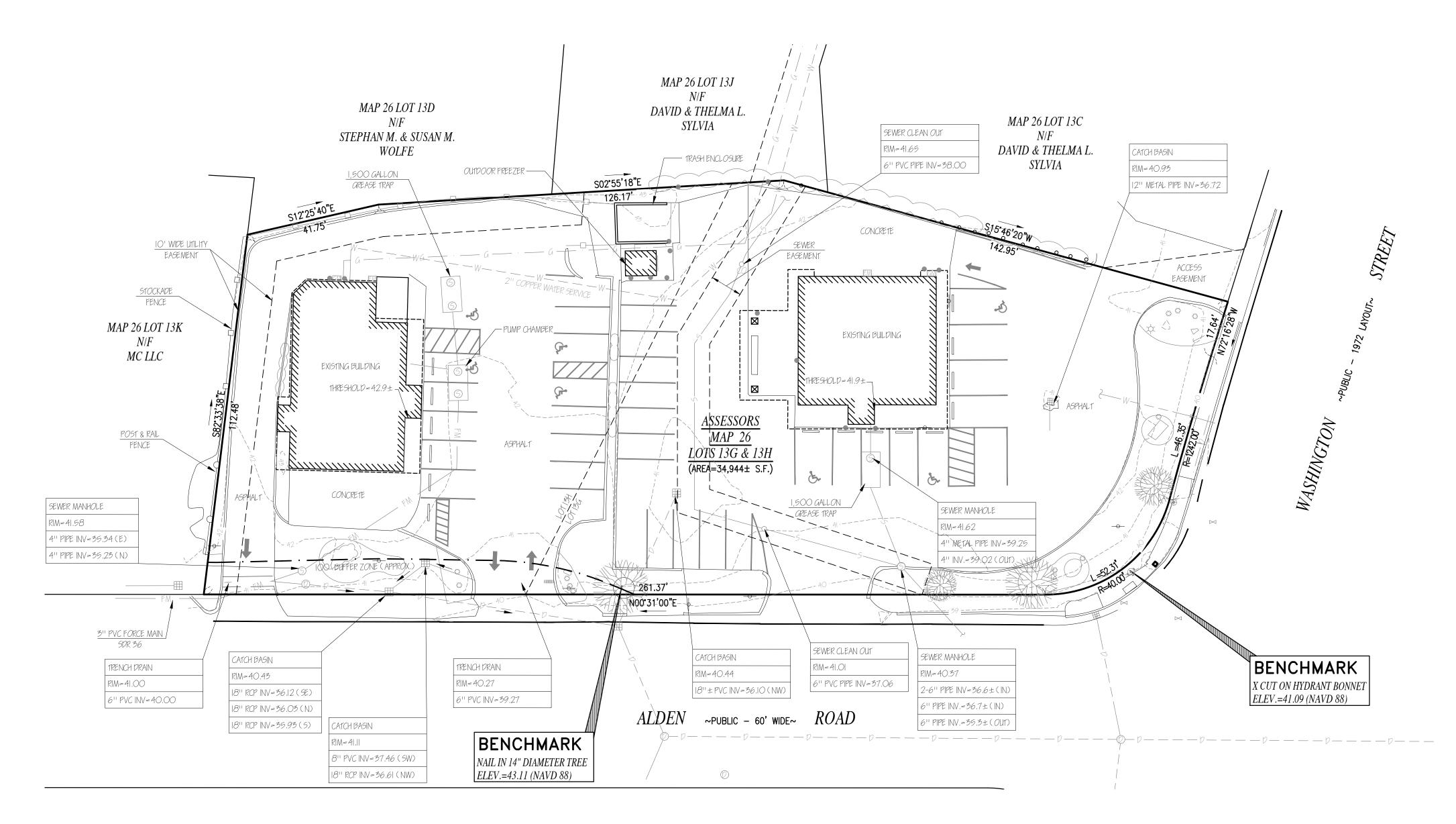
JOB NO. 23-083

LATEST REVISION:
AUGUST 31, 2023

COVER

SHEET 1 OF 9

RECORD OWNER:
ASSESSORS MAP 26 LOTS 13G & 13H MICHAEL W. PANAGAKOS
133 FAUNCE CORNER ROAD DARTMOUTH, MA 02747
DEED BOOK 1820 PAGE 917



NOTES:

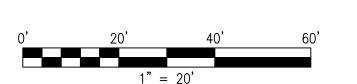
I. APPROXIMATE LOCATIONS/ELEVATIONS OF UNDERGROUND UTILITIES BASED ON OBSERVED EVIDENCE AND PLANS PROVIDED BY THE TOWN OF FAIRHAVEN DEPARTMENT OF PUBLIC WORKS. THESE LOCATIONS ARE NOT GUARANTEED TO BE EXACT OR COMPLETE.

2. SURVEY LOCATIONS PERFORMED BY FARLAND CORP. IN APRIL 2023.

3. SEE PAGE 7 FOR LEGEND.

RECORD OWNER:
ASSESSORS MAP 26 LOTS 13G & 13H MICHAEL W. PANAGAKOS

133 FAUNCE CORNER ROAD DARTMOUTH, MA 02747 DEED BOOK 1820 PAGE 917 PLAN BOOK 105 PAGE 37



REVISIONS

1 8/16/23 PLANNING BOARD COMMENTS 2 8/31/23 PLANNING BOARD COMMENTS

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ENGINEERING SITEWORK

LAND SURVEYING DEVELOPMENT

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3H $\overline{}$ **શ્** ALDEN ROAD

26 LOT 136

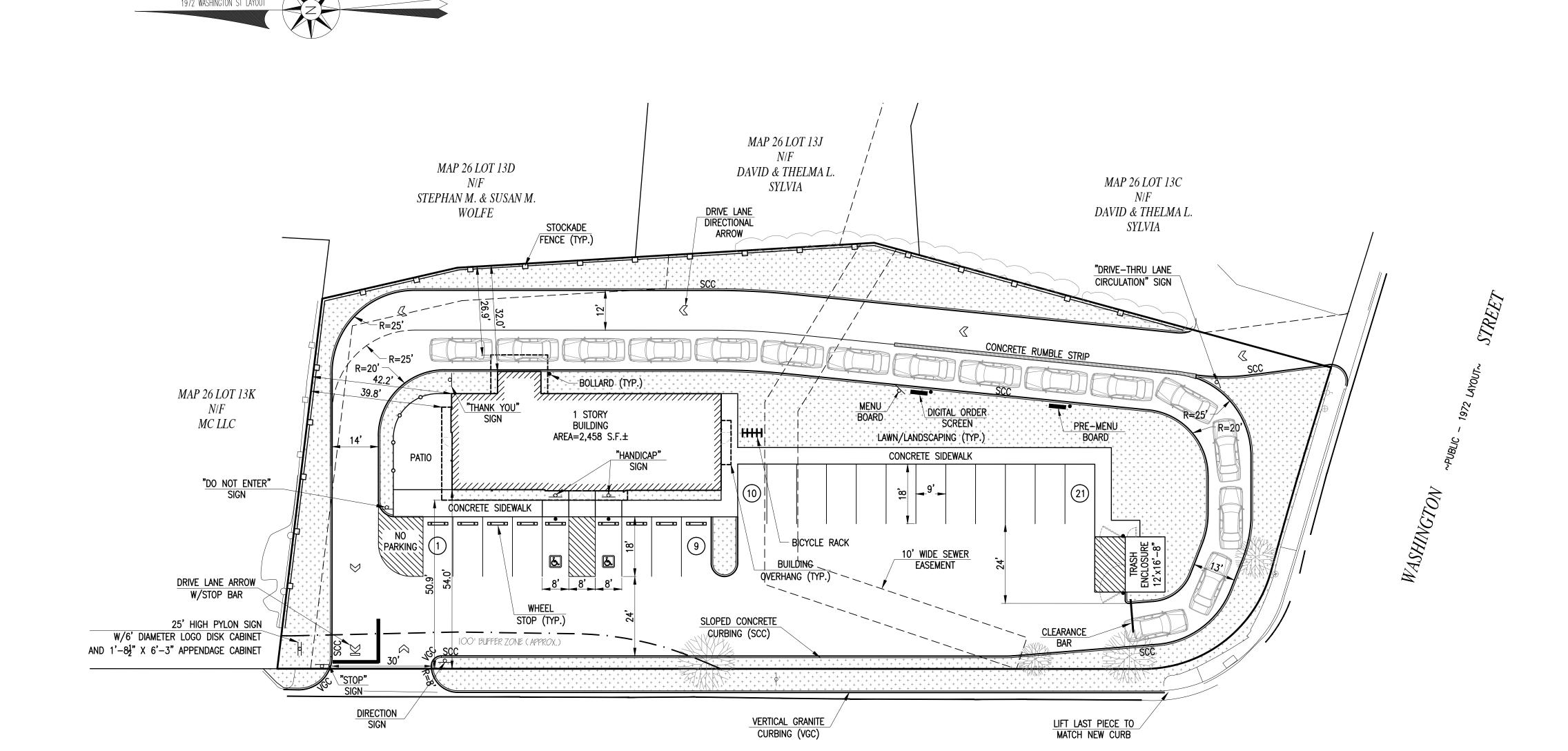
MASSACHUSET

ASSES!

JUNE 27, 2023 SCALE: 1"=20' JOB NO. 23-083

LATEST REVISION: AUGUST 31, 2023

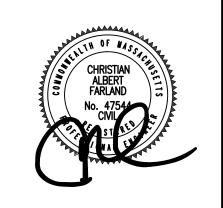
EXISTING CONDITIONS SHEET 2 OF 9



ALDEN ~PUBLIC - 60' WIDE~ ROAD

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ENGINEERING SITEWORK

LAND SURVEYING DEVELOPMENT

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13H \$ 5 ALDEN ROAD

26 LOT 136

MASSACHUSET

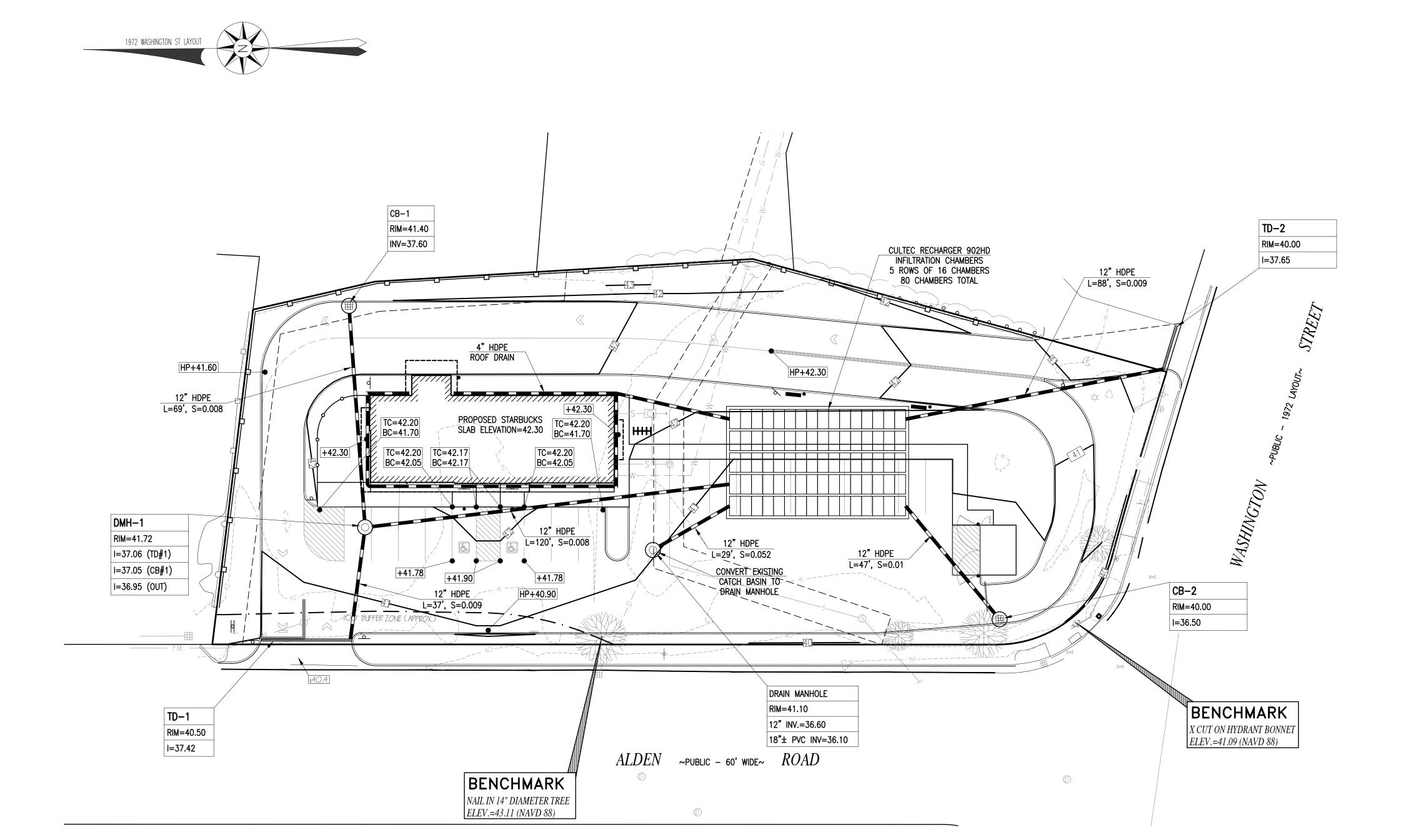
ASSESSORS FAIRHAN

JUNE 27, 2023 SCALE: 1"=20'

JOB NO. 23-083 LATEST REVISION: AUGUST 31, 2023

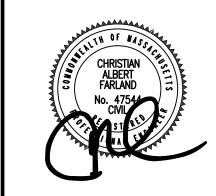
LAYOUT

SHEET 3 OF 9



REVISIONS

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2 8/31/23 PLANNING BOARD COMMENTS





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ENGINEERING

SITEWORK LAND SURVEYING DEVELOPMENT

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CHECKED BY: CAF/BM

13H

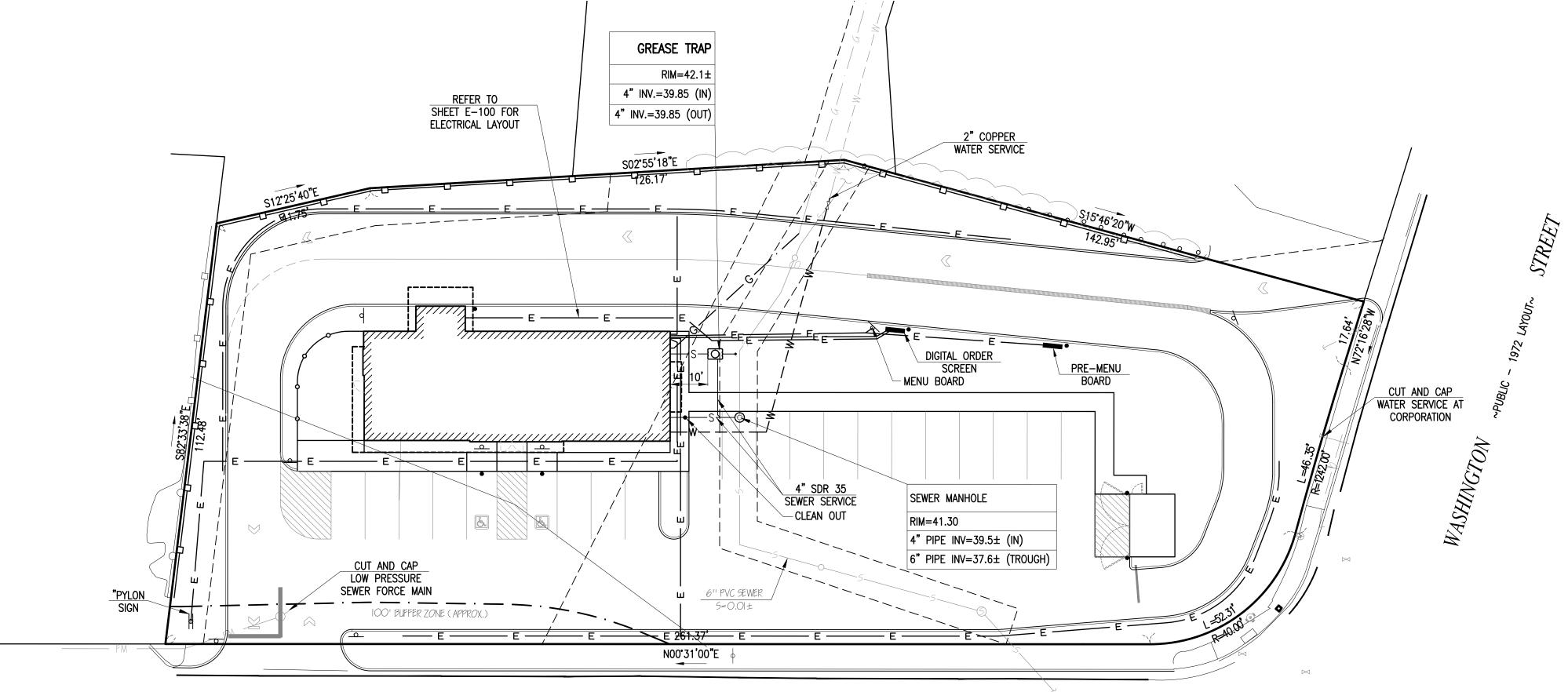
\$ 5 E PLAN
ALDEN ROAD
26 LOT 136
MASSACHUSET ASSESSORS N FAIRHAVE

JUNE 27, 2023

SCALE: 1"=20' JOB NO. 23-083

LATEST REVISION: AUGUST 31, 2023

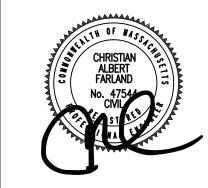
GRADING & DRAINAGE SHEET 4 OF 9



ALDEN ~PUBLIC - 60' WIDE~ ROAD

REVISIONS

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13H \$ 5 ALDEN ROAD 26 LOT 13G MASSACHUSET

ASSESSORS FAIRHA

JUNE 27, 2023

SCALE: 1"=20' JOB NO. 23-083

LATEST REVISION: AUGUST 31, 2023

UTILITIES SHEET 5 OF 9

AS WIDE AS THE ROOTBALL DIAMETER

TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE.

-3" BARK MULCH IN SAUCER - PLANT SAUCER, 4" CONTINUOUS HEIGHT - SEED OR SOD AS NOTED ON PLANS

- FINISH GRADE CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL. CUT AND REMOVE WIRE BASKETS ENTIRELY

PLANTING SOIL MIX: BACKFILL IN LOOSE LIFTS OF 6"-8" DEPTH. SETTLE WITH THOROUGH WATERING

- PLACE BALL ON SUBGRADE

TREE PLANTING

NOT TO SCALE

3" BARK MULCH IN SAUCER, NOT TO BE FILLED AGAINST ROOT FLARE OR TRUNK. PLANT SAUCER, 4" CONTINUOUS, NO SAUCERWHERE SHRUBS OCCUR IN BEDS. CUT AND REMOVE ALL BURLAP FROM ROOT BALL. PLANTING SOIL MIX: BACKFILL IN LOOSE LIFTS OF 6"-8" DEPTH. SETTLE WITH THOROUGH WATERING. PLACE ROOT BALL ON UNDISTURBED SOIL. IF SOIL HAS BEEN DISTURBED, COMPACT TO MINIMIZE SETTLING.

NOTES:

1. SHRUB SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE

AS IT BORE TO NURSERY OR FIELD GRADE. 2. WHERE SHRUBS OCCUR IN GROUPINGS IN PLANT BEDS, PROVIDE 2' DEEP CONTINUOUS LOAM BED.

SHRUB PLANTING

NOT TO SCALE

LIGHT POLE

POLE - 4" SQUARE POLE ARM -

NOTES:

1. FIXTURES MUST BE GROUNDED IN ACCORDANCE

WITH LOCAL ELECTRICAL CODES, OR THE NATIONAL

FIXTURES OF ANOTHER MANUFACTURER MAY BE

PATTERNS AND LIGHTING LEVELS ARE ACHIEVED.

3. CENTER OF POLE BASES TO BE SET A MIN.

OTHERWISE INDICATED ON DRAWING.

3'-0" FROM EDGE OF PAVEMENT, EXCEPT WHERE

3' FEET

EXPOSED 4"-TO 6" MAX.

1" CHAMFER -

SUBSTITUED, PROVIDED THAT SIMILAR DISTRIBUTION

2. ABOVE FIXTURES ARE EXAMPLES ONLY.

ELECTRICAL CODE.

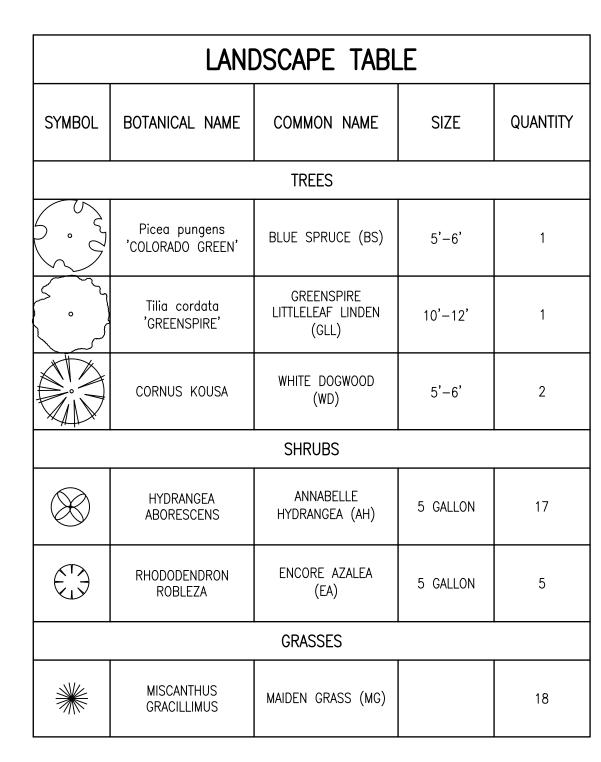
NOT TO SCALE

ANCHOR BOLT COVER FURNISHED WITH POLE - 1" CHAMFER 4" MIN. TO 6" MAX. - FINISHED GRADE ANCHOR BOLT (4 REQ'D) FURNISHED WITH POLE #6 VERTICAL REINFORCING BARS AND #4 HORIZONTAL TIE RODS 12" ON-CENTER - COUPLING SCH. 40 PVC POLE BASE SHALL BE SURROUNDED BY CLEAN BACKFILL COMPACTED TO 95% DENSITY OF MODIFIED PROCTOR. ROUND CONCRETE POLE BASE 24" DIA. MINIMUM

HANDHOLE

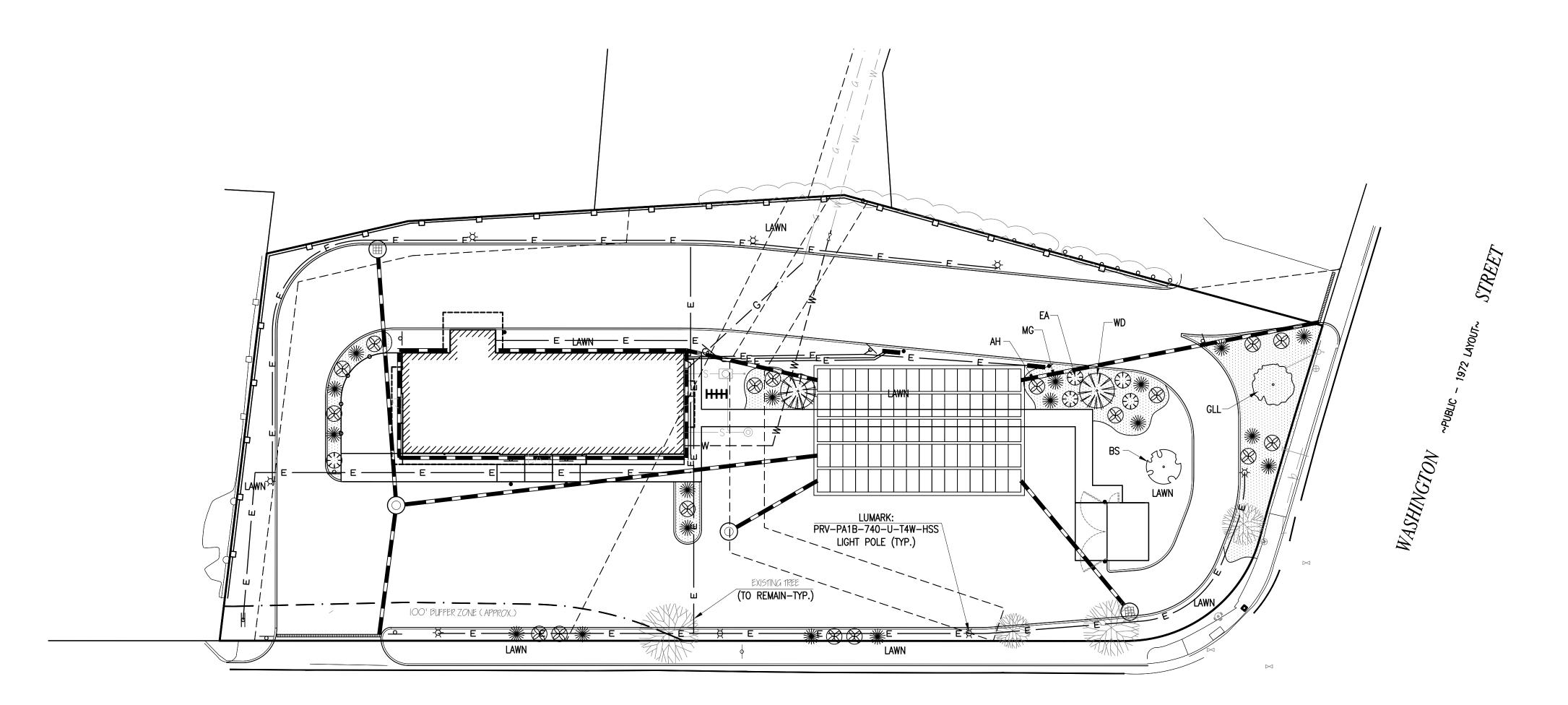
CONCRETE LIGHT POLE BASE

NOT TO SCALE



GROUND COVER

MULCH

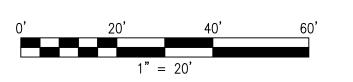


-LUMARK PREVAIL

DISCRETE LED FIXTURE

- SEE BASE DETAIL

ALDEN ~PUBLIC - 60' WIDE~ ROAD



REVISIONS 1 8/16/23 PLANNING BOARD COMMENTS 2 8/31/23 PLANNING BOARD COMMENTS





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ENGINEERING

SITEWORK LAND SURVEYING DEVELOPMENT

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3H $\overline{}$ \$\times_{\time E PLAN
ALDEN ROAD
26 LOT 136
MASSACHUSET

ASSESSORS N FAIRHAVE

JUNE 27, 2023 SCALE: 1"=20' JOB NO. 23-083 LATEST REVISION: AUGUST 31, 2023

LANDSCAPE & LIGHTING

SHEET 6 OF 9

GENERAL CONSTRUCTION NOTES

- 1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF 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 SHOWN ON THE PLAN.
- TOPOGRAPHIC AND PROPERTY LINE SURVEY PERFORMED BY FARLAND CORP. IN APRIL OF 2023.
- VERTICAL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 AND HORIZONTAL LOCATIONS REFER TO THE NORTH AMERICAN DATUM (NAD) OF 1983.
- 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL STANDARDS AND
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.
- 6. ALL BENCHMARKS SHOWN ON THIS PLAN ARE TO BE CHECKED FOR CONSISTENCY BY THE CONTRACTOR. ANY
- DISCREPANCIES MUST BE RESOLVED BY THIS OFFICE PRIOR TO CONSTRUCTION.
- WHERE PROPOSED PAVEMENT AND WALKS ARE TO MEET EXISTING, THE CONTRACTOR SHALL SAWCUT A NEAT LINE
- AND MATCH GRADE. SEAL ALL JOINTS WITH HOT BITUMINOUS ASPHALT JOINT SEALER. 8. CURBING TO BE AS INDICATED ON THE PLANS.
- 9. ALL EXISTING TREES, SHRUBS AND GROUND COVER WHERE NATURAL GRADE IS TO BE RETAINED SHALL BE KEPT IN THEIR EXISTING STATE UNLESS REMOVAL IS REQUIRED FOR CONSTRUCTION PURPOSES.
- 10. ALL AREAS DISTURBED BY CONSTRUCTION AND NOT TO BE PAVED OR OTHERWISE TREATED AS NOTED ON PLAN
- SHALL BE TREATED WITH 4" OF LOAM, SEEDED AND HAY MULCHED FOR EROSION CONTROL. 11. SITE IMPROVEMENTS SHALL CONFORM TO A.D.A. SPECIFICATIONS.
- 12. LIGHTING SHALL BE DIRECTED ON SITE AND AWAY FROM TRAFFIC INTERFERENCE
- 13. TEST PITS AND/OR BORINGS WERE TAKEN FOR THE PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY. THEY DO NOT NECESSARILY SHOW THE NATURE OF ALL MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
- 14. THE CONTRACTOR SHALL PROTECT AND/OR CAP OFF ALL EXISTING ON-SITE UTILITY SERVICES ACCORDING TO THE LOCAL AUTHORITY'S SPECIFICATIONS. SERVICES SHALL BE CAPPED OFF WHERE SAME ENTER THE PERIMETER OF
- 15. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
- 16. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
- 17. THESE PLANS ARE PERMITTING PLANS AND SHALL NOT TO BE USED FOR CONSTRUCTION. A FINAL SET OF STAMPED PLANS FOR CONSTRUCTION WILL BE ISSUED AFTER RECEIVING FINAL APPROVAL FROM THE LOCAL AND/OR

CONSTRUCTION SEQUENCING NOTES

- 1. CONSTRUCT TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES. EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING.
- 2. TREE PROTECTION FENCE SHALL BE INSTALLED AND APPROVED BY THE OWNER REPRESENTATIVE PRIOR TO ANY
- CLEAR CUT, DEMOLISH AND DISPOSE OF EXISTING SITE ELEMENTS NOT TO REMAIN.
- 4. STORMWATER SHALL NOT BE DIRECTED TOWARDS THE INFILTRATION BASINS UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- 5. GRADE AND GRAVEL ALL PAVED AREAS. ALL PROPOSED PAVED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER
- 6. BEGIN ALL PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION.
- 7. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND MULCH AND SEED AS REQUIRED.
- FINISH PAVING ALL HARD SURFACE AREAS.

STRUCTURES AS REQUIRED.

- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES. 10. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 11. REMOVE TEMPORARY EROSION CONTROL MEASURES.
- 12. THE CONSTRUCTION SEQUENCE SHALL BE CONFINED TO THE LIMIT OF WORK AS SHOWN ON THE DRAWINGS 13. UPON COMPLETION OF CONSTRUCTION THE OWNER SHALL AGREE TO MAINTAIN AND CLEAN ALL DRAINAGE

SITE PREPARATION NOTES

- 1. WITHIN THE LIMIT OF WORK LINE AS NOTED ON THE SITE PLANS. REMOVE AND DISCARD ALL CONCRETE PAVEMENT. BITUMINOUS CONCRETE PAVEMENT, BRICK PAVEMENT, TOP SOIL, MULCH, TRASH, DEAD TREES AND STUMPS, SHRUBBERY, CHAIN LINK FENCE POSTS, RAILS, FABRIC, GATES, FOOTINGS AND ALL APPURTENANCES, BOLLARDS, POSTS, CONCRETE FOOTINGS AND FOUNDATIONS, WALLS AND CURBS UNLESS OTHERWISE NOTED.
- 2. THE OWNER'S REPRESENTATIVE SHALL BE CONSULTED AND WILL REVIEW THE WORK ON SITE WITH THE CONTRACTOR
- BEFORE ANY WORK SHALL COMMENCE.
- 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK. 4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS TO REMAIN THAT ARE DUE TO
- 5. ALL ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO
- THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS EFFORTS OF THE DEMOLITION WITH ALL TRADES.
- THE CONTRACTOR SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
- THE CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADES AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MANHOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED OR DIRECTED BY THE OWNER'S REPRESENTATIVE.

UTILITY AND GRADING NOTES

- 1. ALL ON-SITE STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) OR RCP, UNLESS NOTED OTHERWISE.
- HDPE PIPE SHALL CONFORM WITH AASHTO DESIGNATIONS M294 AND M252, SHALL BE MANUFACTURED WITH HIGH DENSITY POLYETHYLENE PLASTIC AND SHALL BE ADS N-12 PIPE AS MANUFACTURED BY ADVANCE DRAINAGE SYSTEM, INC. OR HANCOR HI Q PIPE AS MANUFACTURED BY HANCOR, INC. OR APPROVED EQUAL UNLESS OTHERWISE NOTED OR DETAILED.
- 3. A MINIMUM OF 18" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER SERVICES CROSS STORM DRAIN
- ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO A POINT OF 10 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED.
- 5. 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. 6. GENERALLY, WATER MAIN FITTINGS IDENTIFIED ON THIS DRAWING ARE SHOWN FOR INSTALLATION LOCATION PURPOSE. THE CONTRACTOR SHALL NOTE THAT NOT ALL FITTINGS ARE NOTED, SHOWN OR INDICATED.
- ALL WATER MAIN FITTINGS, TEES, BENDS, HYDRANTS, ETC. SHALL BE RESTRAINED WITH CONCRETE THRUST BLOCKS. DOMESTIC WATER SERVICES 2.5" AND SMALLER SHALL BE TYPE K COPPER TUBING AND SHALL BE INSTALLED WITH 9. APPROPRIATELY SIZED CORPORATION STOP AND APPROVED SADDLE CURB STOP, AND BOX, USING MATERIALS SPECIFIED BY THE MUNICIPAL WATER DEPARTMENT OR COMPANY.
- ALL WATER MAINS 3" AND LARGER SHALL BE CEMENT LINED DUCTILE IRON CLASS 52, AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED FITTINGS AND GATE VALVES.
- 10. ALL WATER MAIN APPURTENANCES, MATERIALS, METHODS OF INSTALLATION AND TESTING REQUIREMENTS SHALL
- MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS. 11. PRESSURE AND LEAKAGE TEST, DISINFECTION AND FLUSHING SHALL BE IN ACCORDANCE WITH ALL LOCAL MUNICIPAL STANDARDS AND REQUIREMENTS. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL COSTS IN
- CONNECTION WITH UTILITY TESTS, FLUSHING AND INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY. 12. PRIMARY WATER METER AND BACKFLOW PREVENTER SHALL BE LOCATED AT THE POINT WHERE THE WATER LINE
- ENTERS THE BUILDING UNLESS OTHERWISE NOTED OR DETAILED ON THE DRAWINGS. 13. ALL GRAVITY SEWER PIPE SHALL BE PVC PER ASTM D3034, SDR-35 AND ASTM D1784 WITH RUBBER GASKET
- 14. WHERE SANITARY SEWERS CROSS WATER LINES, 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 OR CONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR AS THE SEWER AS POSSIBLE. IF MECHANICAL JOINT PIPE IS NOT USED THAN BOTH THE WATER MAIN AND SANITARY SEWER SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
- 15. DUE TO THE SMALL SCALE OF THE SITE WORK DRAWINGS, 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 10 FEET FROM THE BUILDING WALL UNLESS OTHERWISE NOTED OR DETAILED.
- 16. BEFORE THE DEVELOPMENT SITE IS GRADED, THE AREA OF THE DRAINAGE BASINS SHOULD BE FENCED OFF TO PREVENT HEAVY EQUIPMENT FROM COMPACTING THE UNDERLYING SOIL.
- 17. WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS AND STRUCTURES.
- MAXIMUM SLOPE IN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL VERIFY EXISTING GRADES AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
- 21. CONTRACTOR SHALL ADJUST UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE THAT IS AFFECTED BY SITE WORK 25. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
- 22. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.
- 23. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ALL GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- SECTIONS AND DETAILS OF THE UTILITY DUCT BANK. 25. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY AND APPROVED BY THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE AND ELECTRICAL). FINAL DESIGN AND LOCATIONS AT THE BUILDING WILL BE PROVIDED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE

24. ELECTRICAL DUCT BANK LOCATION IS SHOWN FOR COORDINATION PURPOSES, REFER TO ELECTRICAL PLANS FOR

LAYOUT AND MATERIAL NOTES

RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.

- 1. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION. 2. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY 5.
- TO THE OWNER'S REPRESENTATTIVE FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION. 3. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND ALL DETAILS CONTIGUOUS TO THE BUILDING INCLUDING SIDEWALKS, RAMPS, UTILITY ENTRANCE LOCATIONS, WALL PACKS, CONCRETE DOOR PADS, ROOF DRAINS,
- ACCESSIBLE CURB RAMPS SHALL BE PER THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND THE
- AMERICANS WITH DISABILITIES ACT ACCESSIBLITY GUIDELINES, WHICHER IS MORE STRINGENT.
- THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN: ALL DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING.
- ALL DIMENSIONS ARE TO FACE OF CURB AT GUTTER LINE. ALL DIMENSIONS ARE TO CENTER OF PAVEMENT MARKINGS.
- ALL TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.

SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. THE ENGINEER SHALL BE NOTIFIED, AT LEAST 72 HOURS PRIOR TO ANY LAND DISTURBANCE 2. A COPY OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION
- 3. SOIL EROSION AND SEDIMENT CONTROL PRACTICES IN THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 4. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY DEMOLITION GRADING OPERATIONS AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- 5. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- 6. ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- THE MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES DURING AND IMMEDIATELY AFTER CONSTRUCTION RESTS WITH THE GENERAL CONTRACTOR. UPON ACCEPTANCE OF THE PROJECT, THE OWNER SHALL BECOME RESPONSIBLE FOR MAINTENANCE OF ANY REMAINING MEASURES AND FACILITIES.
- 8. OFF SITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE ENGINEER.
- THE CONSERVATION COMMISSION AND/OR ENGINEER MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.
- 10. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS AT ALL TIMES. 11. THE CONTRACTOR SHALL UTILIZE ALL METHODS NECESSARY TO PREVENT BLOWING AND MOVEMENT OF DUST FROM
- THE EXPOSED SOIL SURFACES. 12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 13. A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ENTRANCE EXISTS. SEE LOCATION DETAIL ON PLAN. 14. ALL CATCH BASIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION AS DETAILED ON THE PLAN, IF
- APPLICABLE 15. ALL STORM DRAINAGE OUTLETS SHALL BE PROTECTED AS REQUIRED HEREON BEFORE DISCHARGE POINTS BECOME
- OPFRATIONAL. 16. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- 17. LAND AREAS EXPOSED AT ANY ONE TIME AND THE LENGTH OF EXPOSURE SHALL BE KEPT TO A PRACTICAL MINIMUM. THEY SHALL BE LEFT IN A NEAT AND FINISHED APPEARANCE AND PROTECTED FROM EROSION. 18. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION. IF THE SEASON
- PROHIBITS TEMPORARY SEEDING, THE DISTRIBUTED AREAS SHALL BE MULCHED. 19. ALL CRITICAL AREAS SUBJECT TO EROSION SHALL RECEIVE A TEMPORARY SEEDING AND BE MULCHED IN
- ACCORDANCE WITH THE SPECIFICATIONS IMMEDIATELY FOLLOWING ROUGH GRADING. 20. IMMEDIATELY AFTER COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, SEED THE STOCKPILE WITH ANNUAL RYE GRASS. STABILIZE TOPSOIL STOCKPILES WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING.
- 21. SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF WETLANDS, THE FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITIES. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY A HAY BALE BARRIER
- OR SEDIMENT FENCE. LOCATIONS ARE DELINEATED ON THE PLAN. 22. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- 23. ALL AREAS NOT STABILIZED BY CONSTRUCTION, SODDING OR LANDSCAPING SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE SEEDING AND MULCHING SPECIFICATIONS.
- 24. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATIVE COVER.
- FILTER MUST BE CAPABLE OF FILTERING THE SEDIMENT AND BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA.

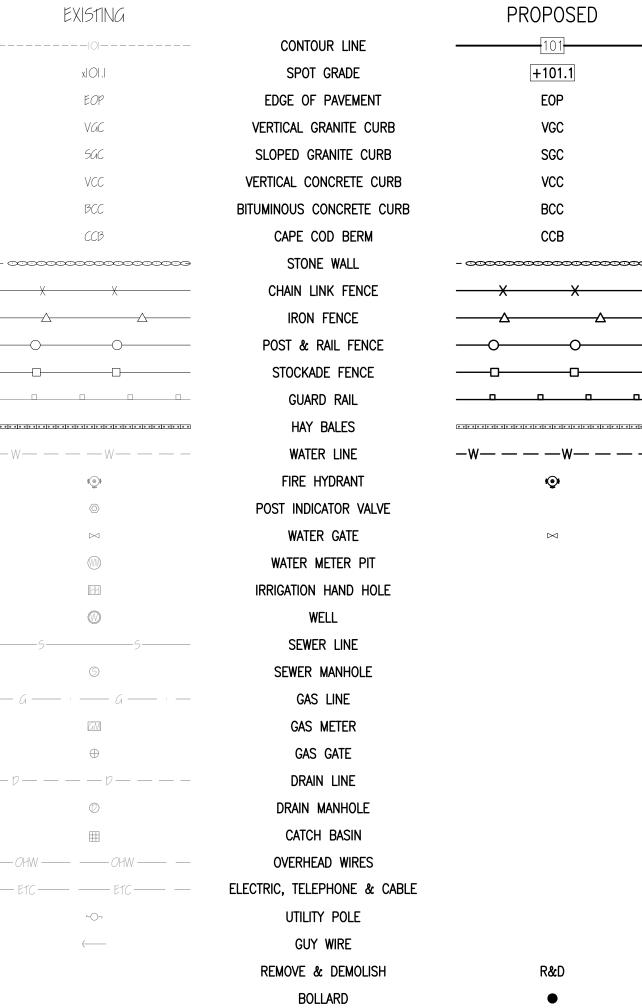
GENERAL PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN OR THE PLANT MATERIAL WILL BE UNACCEPTABLE. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY, SIZE AND BE CERTIFIED DISEASE AND INSECT FREE. THE OWNER AND/OR THE LANDSCAPE ARCHITECT RESERVES THE
- RIGHT TO APPROVE ALL PLANT MATERIAL ON SITE PRIOR TO INSTALLATION. ALL PLANT MATERIAL SHALL BE PROPERLY GUYED, STAKED, WRAPPED, AND PLANTED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. GUY WIRES SHALL BE ATTACHED TO THE TREE AT A HEIGHT OF TWO—THIRDS THE HEIGHT OF THE TREE AND SHOULD BE LOCATED AT POINTS SO AS NOT TO SPLIT THE TRUNK OF MULTI-STEMMED TREES. PROVIDE THREE STAKES PER TREE UNLESS NOTED OTHERWISE INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. PROVIDE BURLAP WRAPPING WITH A 50% OVERLAP. CUT AND REMOVE BURLAP FROM TOP
- ONE-THIRD OF THE ROOT BALL. PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PITS WITH ONE PART EACH OF TOP SOIL, PEAT MOSS, AND PARENT MATERIAL. IF WET SOIL CONDITIONS EXIST THEN PLANTING PITS SHALL BE EXCAVATED AN ADDITIONAL 12" AND FILLED WITH SAND.
- NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION AND SHALL BE SUBSEQUENTLY FLOODED TWICE WITHIN TWENTY-FOUR (24) HOURS OF PLANTING. REGULAR WATERING SHALL BE
- PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL OF ALL PLANTS. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER THE DATE OF FINAL ACCEPTANCE. ANY PLANT MATERIAL THAT DIES WITHIN THAT TIME PERIOD SHALL BE REMOVED, INCLUDING THE STUMP, AND REPLACED WITH MATERIAL OF SIMILAR SIZE AND SPECIES AT THE EXPENSE OF THE DEVELOPER. THE REPLACED PLANT MATERIAL
- SHALL BE GUARANTEED FOR ONE YEAR AFTER THE REPLACEMENT DATE. 6. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM 4" LAYER OF TOPSOIL IN ALL LAWN AREAS AND A MINIMUM OF 6" OF TOPSOIL IN ALL PLANTING AREAS. A FULL SOIL ANALYSIS SHALL BE CONDUCTED AFTER
- CONSTRUCTION AND PRIOR TO PLANTING TO DETERMINE THE EXTENT OF SOIL AMENDMENT REQUIRED. ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH EITHER SOD OR SEED AS INDICATED ON THE LANDSCAPE PLANS. SEED SHALL CONSIST OF THE MIXTURE LISTED IN THE GENERAL SEEDING NOTES. ALL DISTURBED LAWN AREAS SHALL BE TOP SOILED, LIMED, FERTILIZED, AND FINE GRADED PRIOR TO LAWN INSTALLATION.
- ALL PLANTING BEDS SHALL RECEIVE 3" OF SHREDDED PINE, CEDAR OR HEMLOCK BARK. 9. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS.
- 10. ALL TREES ARE TO BE GUYED, 3 EACH, UNLESS OTHERWISE NOTED ON PLAN.

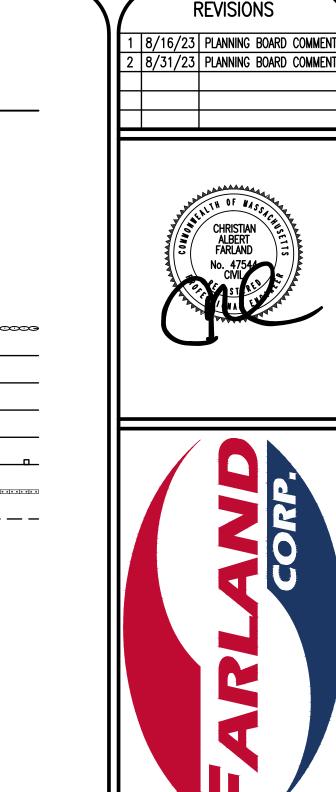
CONTRACTOR.

- 11. ALL DECIDUOUS TREES ARE TO BE WRAPPED, WITH TREE WRAP, UP TO THE FIRST BRANCHING AND SECURED. 12. THE LANDSCAPE CONTRACTOR IS TO PERFORM ALL CONTRACTED WORK IN A REASONABLE PERIOD OF CONTINUOUS
- 13. THE LANDSCAPE CONTRACTOR IS TO MAINTAIN PLANT MATERIAL WHILE THE PROJECT IS UNDERWAY AND FOR A
- PERIOD OF TWO WEEKS AFTER THE COMPLETION OF THE PROJECT UNLESS OTHERWISE SPECIFIED. 14. THE CONTRACTOR IS TO CLEAN UP AND REMOVE ANY DEBRIS FROM THE SITE, CAUSED BY THE LANDSCAPE

CONTOUR LINE +101.1 xIOI.I SPOT GRADE EOP EOP EDGE OF PAVEMENT VERTICAL GRANITE CURB SGC SLOPED GRANITE CURB VCC VERTICAL CONCRETE CURB BITUMINOUS CONCRETE CURB BCC CAPE COD BERM STONE WALL CHAIN LINK FENCE IRON FENCE _____ POST & RAIL FENCE -0-0----STOCKADE FENCE _____ GUARD RAIL _____ HAY BALES WATER LINE -W---W----FIRE HYDRANT POST INDICATOR VALVE WATER GATE WATER METER PIT IRRIGATION HAND HOLE WELL SEWER LINE SEWER MANHOLE GAS LINE GAS METER GAS GATE DRAIN LINE DRAIN MANHOLE CATCH BASIN OVERHEAD WIRES ELECTRIC. TELEPHONE & CABLE UTILITY POLE **GUY WIRE** REMOVE & DEMOLISH



LEGEND



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DEVELOPMENT

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> JUNE 27, 2023 SCALE: AS NOTED

JOB NO. 23-083

LATEST REVISION: AUGUST 31, 2023

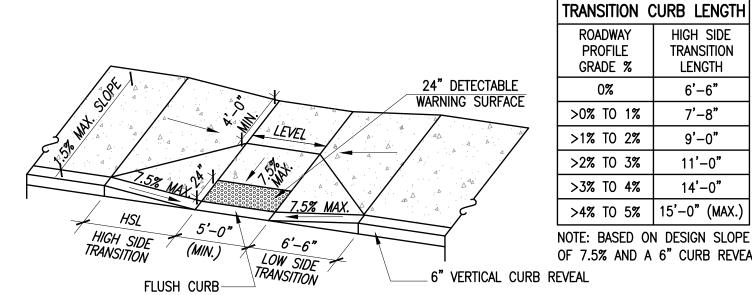
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DETAILS AND NOTES

SHEET 7 OF 9



		COND LENGTH
	ROADWAY	HIGH SIDE
	PROFILE	TRANSITION
	GRADE %	LENGTH
	0%	6'-6"
	>0% TO 1%	7'-8"
7	>1% TO 2%	9'-0"
	>2% TO 3%	11'-0"
	>3% TO 4%	14'-0"
	>4% TO 5%	15'-0" (MAX.)
	NOTE: BASED OF	N DESIGN SLOPE

NOTE: BASED ON DESIGN SLOPE OF 7.5% AND A 6" CURB REVEAL

 $_$ 6" vertical curb reveal

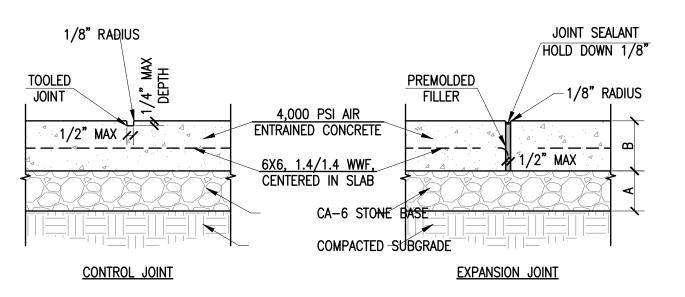
1. RAMP CROSS SECTION TO BE THE SAME AS ADJACENT SIDEWALK, I.E. DEPTH OF SURFACE AND FOUNDATION.

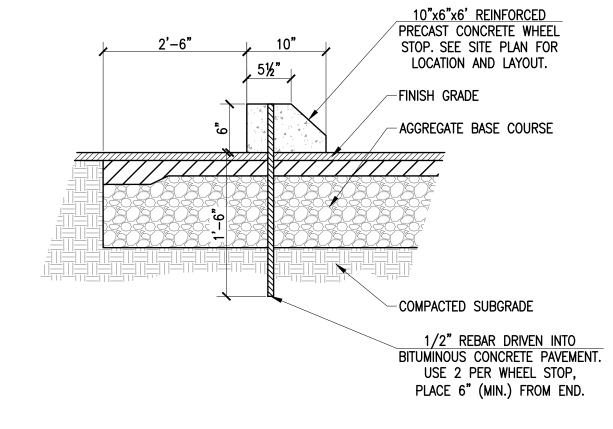
- 2. DIMENSIONS ARE SUBJECT TO CHANGE IN FIELD. ALL SLOPES AND
- DIMENSIONS TO COMPLY WITH ADA MAAB REQUIREMENTS. 3. PROVIDE EXPANSION JOINTS AT TOPS OF RAMP AND AT BACK OF WALK AT
- INTERFACE OF CURB. 4. PROVIDE HEAVY BROOM FINISH ON RAMP AND SIDE SLOPES PERPENDICULAR
- TO FLOW OF TRAFFIC.
- MINIMUM WALK DIMENSIONS ARE FROM BACK OF CURB. TRANSITION CURB LENGTH AS REQUIRED TO MEET CODE.
- FIXED OBJECTS (I.E. UTILITY POLES, HYDRANTS, ETC.) MUST NOT ENCROACH ON ANY PART OF A WHEELCHAIR RAMP, INCLUDING TRANSITION SLOPES.
- 8. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP, EXCLUDING CURB TRANSITIONS, TO BE LOCATED OUTSIDE OF THE CROSSWALK.

ACCESSIBLE RAMP TYPE B

NOT TO SCALE

UNLESS OTHERWISE NOTED ON PLANS, CONTRACTION JOINTS TO BE 5'-0" O.C. AND EXPANSION JOINTS TO BE 40'-0" O.C. MAX., OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK, UTILITY APPURTENANCE, OR FACE OF STRUCTURE.





VAN VAN ALTERNATE

RESERVED

PARKING

ALUMINUM SIGN PANEL FLUSH MOUNTED TO

SUPPORT POSTS ON FRONT, TOP, AND BACK

ALL VISIBLE CONNECTIONS SHALL BE FULL

WELDED AND GROUND FLUSH AND SMOOTH.

PRESSURE SENSITIVE VINYL GRAPHICS

CONCRETE FOOTING

TOP OF CONCRETE FOOTING 6"

BELOW BASE OF PAVEMENT COURSE

APPROVED BY OWNERS REPRESENTATIVE.

LETTERING STYLE AND COPY TO BE

-2" SQUARE ALUMINUM POST

-FINISH GRADE

COMPACTED SUBGRADE

-1-1/2" TOP COURSE (CLASS 1) – 2–1/2" BINDER COURSE (TYPE I–1) 3" DENSE GRADED CRUSED STONE (M2.01.7) «9" PROCESSED GRAVEL (M1.03.1) COMPACTED SUBGRADE

CONCRETE PAVEMENT SIDEWALK

-SLOPED GRANITE CURB

FINISH GRADE

M 1.03.0 TYPE B GRAVEL BASE

DETAIL NOTE:

GRID SQUARES ARE 2 1/4"

RE: ANSI A117.1, FIG. 703.6.3.1

NOT TO SCALE

6" MIN.

CEMENT

CONCRETE

COMPACTED SUBGRADE

PRECAST CONCRETE WHEEL STOP

-REAR PANEL

FRONT

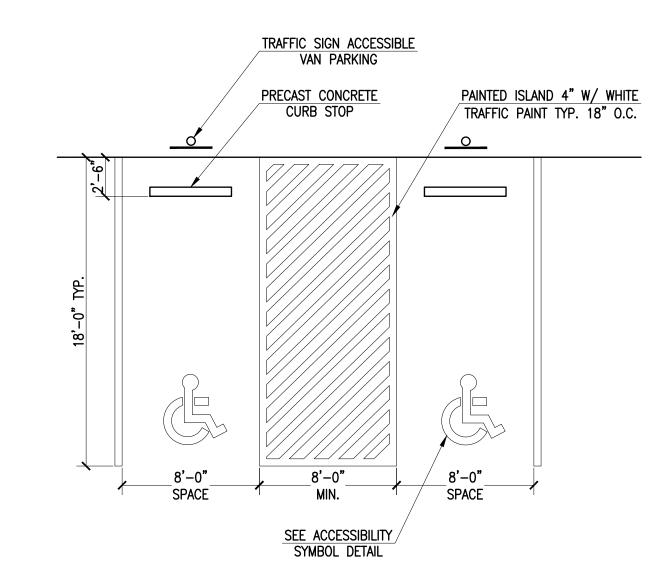
PANEL

BOTTOM

NOT TO SCALE

BITUMINOUS CONCRETE PAVEMENT

NOT TO SCALE

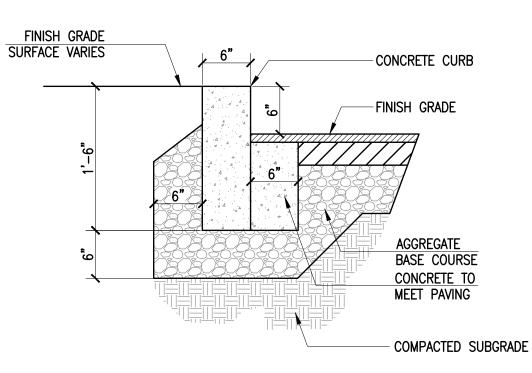


5. FRAME AND GRATE TO BE

WITH SG-1 GRATE.

EQUAL TO LEBARON LK 120 (3

FLANGE) OR LK 121 (4 FLANGE)



ADDITIONAL CONCRETE SHALL BE ADDED TO THE FRONT OF GRANITE CURBING AT ALL RADII AREAS.

VERTICAL CONCRETE CURB

NOT TO SCALE

SLOPED GRANITE CURB

12" GRAVEL BASE

(M 1.03.0 TYPE B)

TOP COURSE -

BINDER COURSE-

NOT TO SCALE

ACCESSIBLE PARKING SYMBOL NOT TO SCALE

ACCESSIBLE PARKING SIGN

SECTION

-WHITE PAINT

NOT TO SCALE

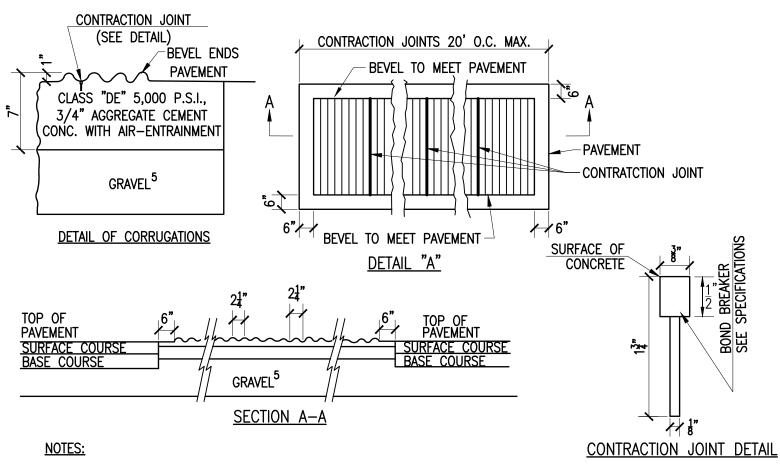
ACCESSIBLE PARKING LAYOUT

3. JOINT SEALANT BETWEEN

PREFORMED BUTYL RUBBER.

PRECAST SECTIONS SHALL BE

NOT TO SCALE



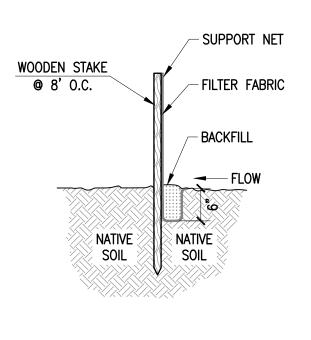
1. CONTRACTION JOINTS ARE TO BE SPACED AT A MAXIMUM OF 20 FEET APART. 2. THE JOINTS ARE TOO BE SAWED AND LOCATED IN THE DEPRESSIONS OF THE CORRUGATIONS (SEE DETAIL

- 3. END OF CORRUGATION RIDGES TO BE BEVELED. 4. FOR DESCRIPTION OF MATERIAL AND CONSTRUCTION METHODS SEE MASSDOT STANDARD SPECIFICATIONS
- AND SPECIAL PROVISIONS. 5. THE DEPTH OF THE GRAVEL IS TO BE SUCH THAT ITS BOTTOM LINE MEETS THE BOTTOM OF THE GRAVEL LINE OF THE CONTIGUOUS PAVEMENT.

SCORED CONCRETE/RUMBLE STRIP

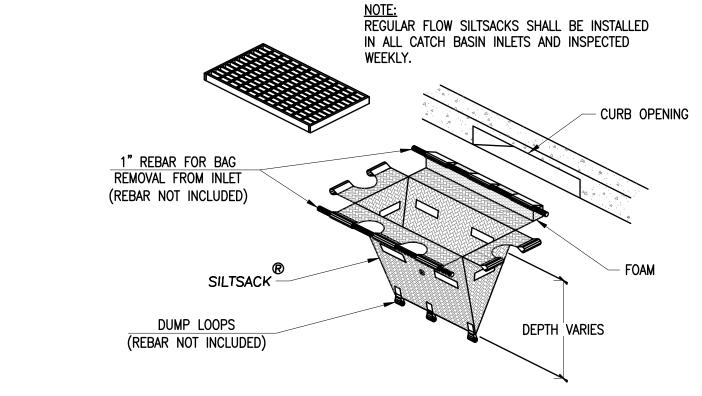
OF CORRUGATIONS).

NOT TO SCALE

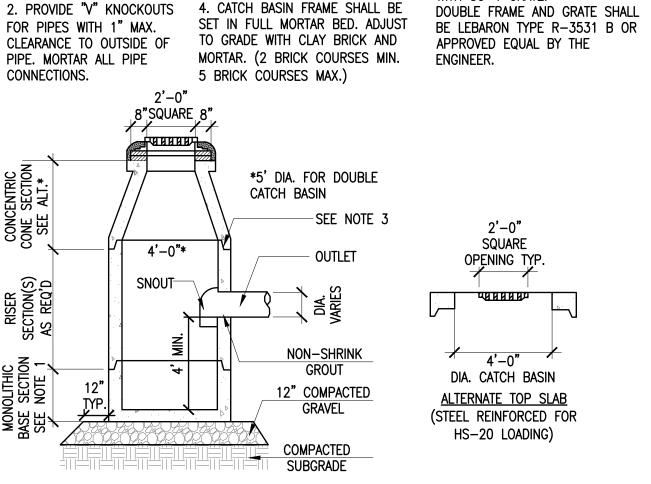


SILT FENCE

NOT TO SCALE







CATCH BASIN NOT TO SCALE

1. ALL SECTIONS

SHALL BE DESIGNED

FOR HS-20 LOADING.

ALDEN ROA 26 LOT MASSACHU 27 & SSORS NAIRHAVE SSE JUNE 27, 2023 SCALE: AS NOTED

REVISIONS

8/16/23 | PLANNING BOARD COMMENT 2 8/31/23 PLANNING BOARD COMMENT

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DETAILS AND NOTES SHEET 8 OF 9

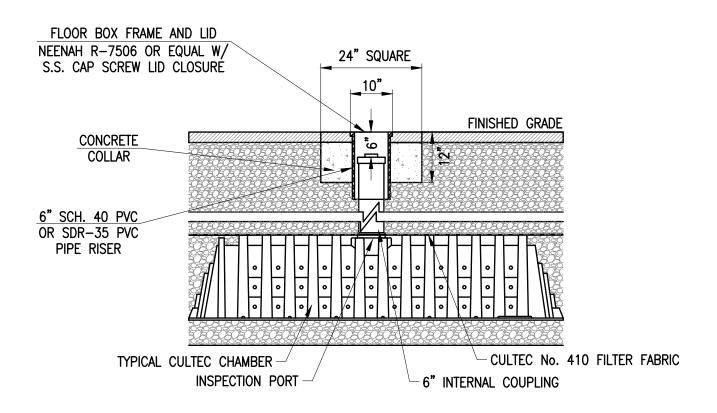
JOB NO. 23-083

LATEST REVISION:

AUGUST 31, 2023

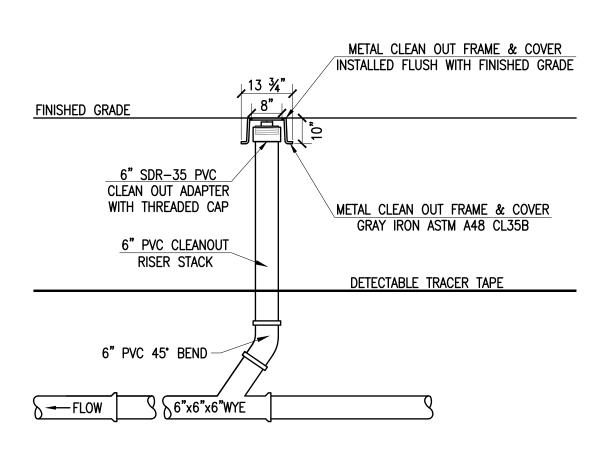
DRAIN MANHOLE

NOT TO SCALE



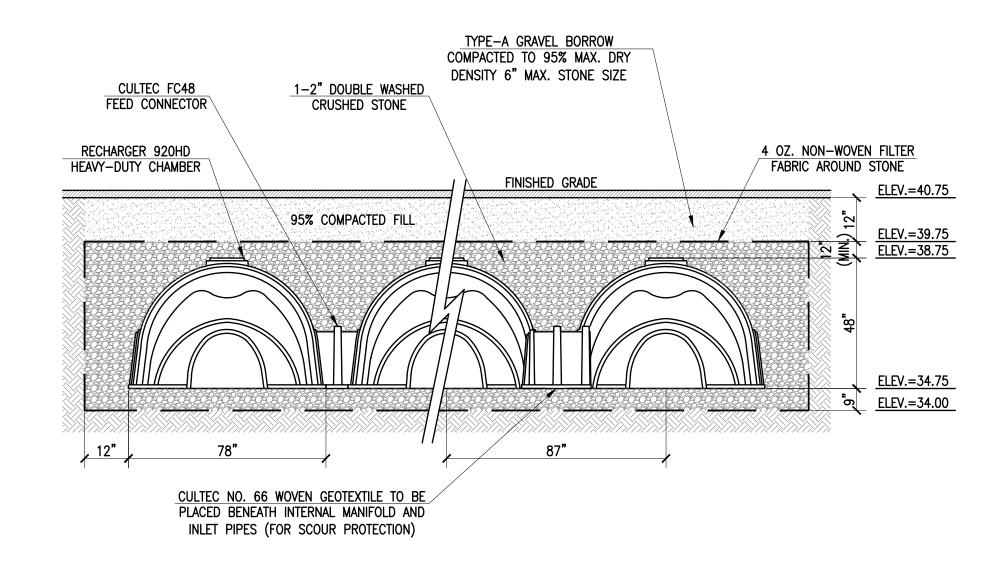
H20 LOADING INSPECTION PORT

NOT TO SCALE



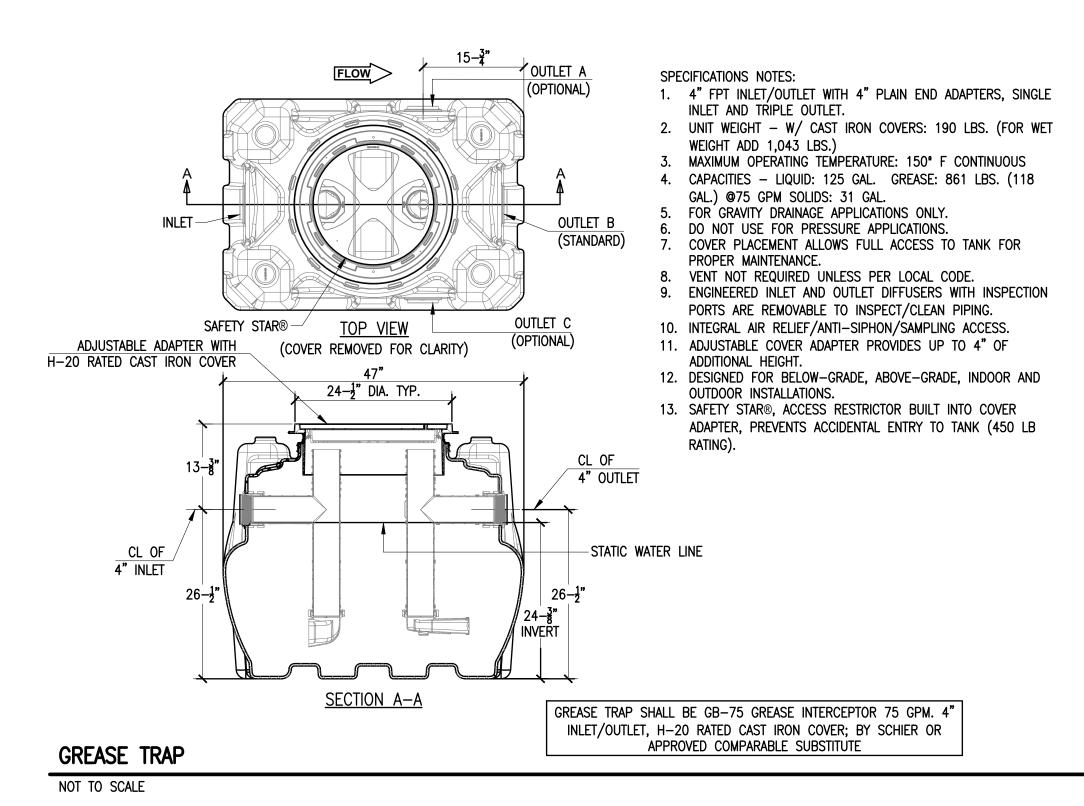
SEWER SERVICE CLEANOUT

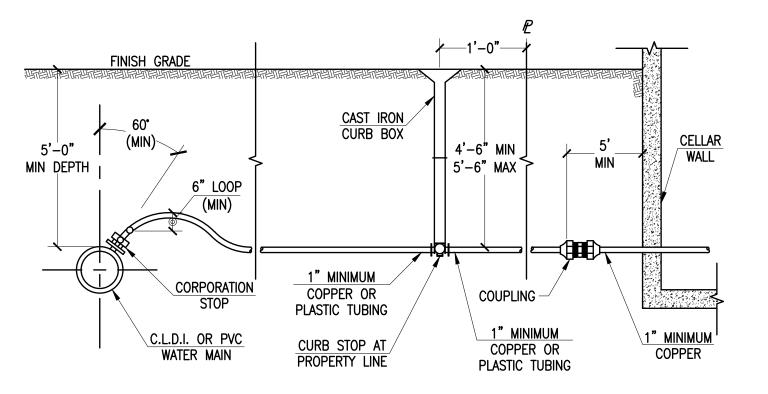
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CULTEC RECHARGER 920HD HEAVY DUTY CROSS SECTION

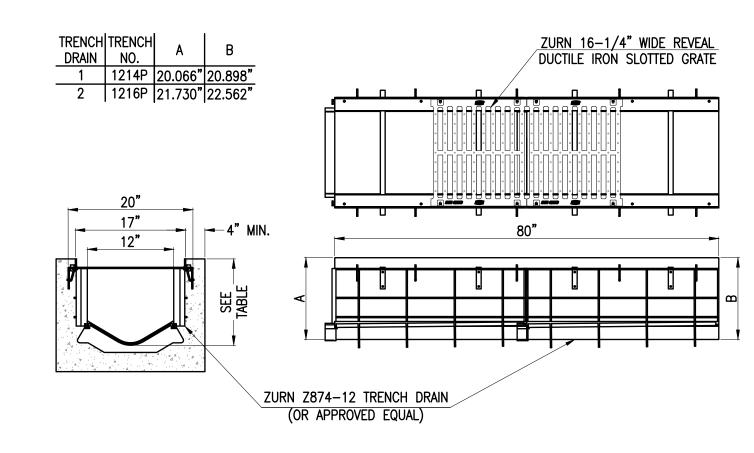
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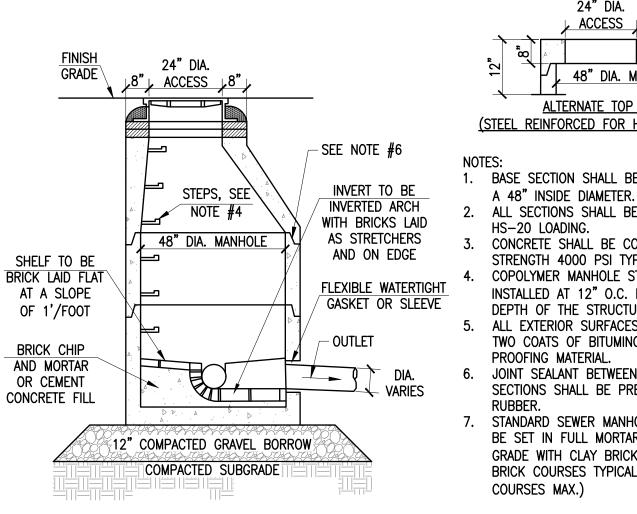
WATER SERVICE CONNECTION

NOT TO SCALE



TRENCH DRAIN DETAIL

NOT TO SCALE



ALTERNATE TOP SLAB (STEEL REINFORCED FOR HS-20 LOADING)

1. BASE SECTION SHALL BE MONOLITHIC WITH

A 48" INSIDE DIAMETER. ALL SECTIONS SHALL BE DESIGNED FOR

CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI TYPE II CEMENT. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL

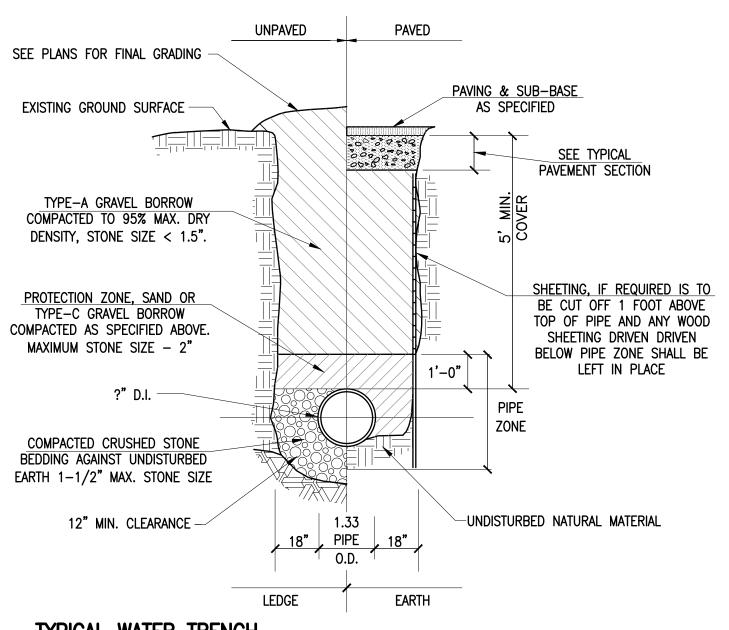
DEPTH OF THE STRUCTURE. 5. ALL EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER

6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL

STANDARD SEWER MANHOLE FRAME SHALI BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK

SANITARY SEWER MANHOLE

NOT TO SCALE



TYPICAL WATER TRENCH

NOT TO SCALE

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3H $\overline{}$ **શ્** S E E PLAN
ALDEN ROAD
26 LOT 136
MASSACHUSE SITE 27 & 29 A SSORS MAP FAIRHAVEN,

> JUNE 27, 2023 SCALE: AS NOTED JOB NO. 23-083 LATEST REVISION:

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DETAILS AND NOTES SHEET 9 OF 9

AUGUST 31, 2023