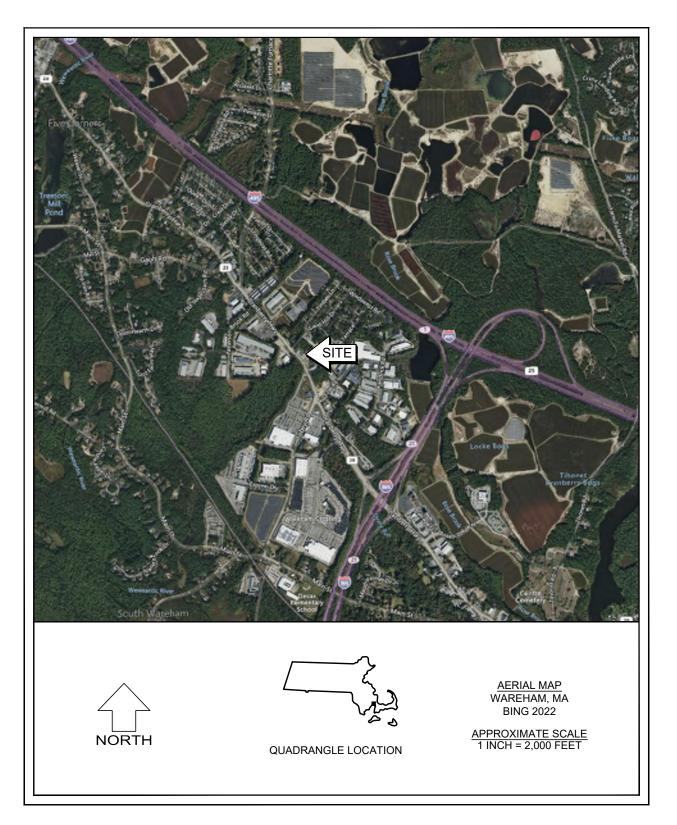
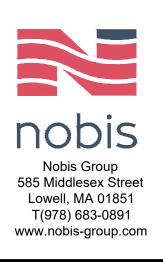
TRUE STORAGE FACILITY

2400 & 2402 CRANBERRY HIGHWAY WAREHAM, MASSACHUSETTS

SITE ENGINEER NOBIS GROUP - LOWELL, MA <u>ARCHITECT</u> BRADY SULLIVAN PROPERTIES - MANCHESTER, NH <u>SURVEYOR</u> CONTROL POINT ASSOCIATES, INC. - SOUTHBOROUGH, MA <u>SEPTIC DESIGNER</u> PROVENCHER ENGINEERING, LLC - MERRIMACK, NH



APRIL 2022 LATEST REVISION APRIL 5, 2023



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NOBIS PROJECT NO. 95561.15

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S	S	SANITARY SEWER LINE		
W	W	WATER LINE		
WS	ws	WATER SERVICE		
G	G	GAS LINE		
		ZONING BOUNDARY LINE		

GENERAL NOTES:

(MASSDOT).

EROSION CONTROL NOTES:

CATCH BASINS: CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT ENTER CATCH BASINS DURING EXCAVATION FOR PIPE TRENCHES, DITCHES AND SWALES. THE CONTRACTOR SHOULD PLACE NON-WOVEN GEOTEXTILE FABRIC FOR INLET PROTECTION OVER INLETS IN AREAS OF SOIL DISTURBANCE, WHICH ARE SUBJECT TO SEDIMENT CONTAMINATION. PLACE INLET PROTECTION DEVICES, IN CATCH BASINS AND MAINTAIN UNTIL ALL CONSTRUCTION ACTIVITIES HAVE CEASED AND THE SURROUNDING AREAS ARE WELL VEGETATED.

ALL SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF INTO THEM.

THE TOWN OF WAREHAM VARIOUS DEPARTMENTS AND THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION CHEDULE OF WORI 4. THE CONTRACTOR SHALL OBTAIN COVERAGE UNDER EPA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FOR

ADEQUATE MEASURES SHOULD BE TAKEN TO MINIMIZE AIR BORNE DUST PARTICLES ARISING FROM SOIL DISTURBANCE AND

CONSTRUCTION.

* DISTURBANCE OF AREAS SHOULD BE MINIMIZED AND NOT EXCEED 100,000 SQUARE FEET IN AREA AT ANY ONE TIME. * NO DISTURBED AREA SHOULD BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON. * PERMANENT EROSION CONTROL FEATURES SHOULD BE INCORPORATED INTO THE PROJECT AT THE EARLIEST PRACTICABLE TIME, AS SPECIFIED ON THE CONTRACT PLANS. * WITHIN 14 DAYS OF COMPLETING WORK IN AN AREA, AND PRIOR TO ANTICIPATED RAIN EVENTS. APPLY HAY/STRAW MULCH AND TACKIFIER ON ALL DISTURBED SOIL AREAS. APPLICATION RATES OF 2 TONS OF STRAW OR HAY PER ACRE SHOULD BE USED TO PREVENT EROSION UNTIL VEGETATIVE COVER CAN BE ESTABLISHED. ALTERNATIVELY, APPLY WOOD CHIPS OR GROUND BARK MULCH 2 TO 6 INCHES DEEP AT A RATE OF 10 TO 20 TONS PER ACRE. * WHEN EROSION IS LIKELY TO BE A PROBLEM, GRUBBING OPERATION SHOULD BE SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATION AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER. * AS WORK PROGRESSES, PATCH SEEDING AND MULCHING SHOULD BE DONE AS REQUIRED ON AREAS PREVIOUSLY TREATED TO MAINTAIN OR ESTABLISH PROTECTIVE COVER. * REMOVE ACCUMULATED SEDIMENTS AND DEBRIS WHEN SEDIMENT CONTAINMENT DEVICES REACH 33% CAPACITY.

TEMPORARY STABILIZATION

COMPLETION. 4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EXCAVATION DEWATERING

TABLES, WITH 98% PURITY:

SEED WINTER RYE 80 (I RED FESCUE PERENNIAL RYE RED CLOVER OTHER CROP GR NOXIOUS WEED INERT MATTER

SEED RED FESCUE (CR KENTUCKY BLUE PERENNIAL RYE RED TOP LANDINO CLOVE

SNOW OR ON FROZEN GROUND.

FOR THE DESIGN FLOW CONDITIONS. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3 OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.

REGULATIONS UNDER THE CLEAN WATER ACT.

GENERAL CONSTRUCTION SEQUENCE:

1. CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY EARTH MOVING OPERATIONS. INSPECT EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS OF ANY SIGNIFICANT RAINFALL EVENT (1/2" OF RAIN OR MORE). PERFORM ANY NEEDED MAINTENANCE AND STABILIZATION AS NEEDED.

1. THESE DRAWINGS SHOULD BE REVIEWED IN CONJUNCTION WITH THE ACCOMPANYING DESIGN REPORT TITLED

2. EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES

3. THESE DRAWINGS AND ACCOMPANYING TEXT HAVE BEEN PREPARED FOR BRADY SULLIVAN PROPERTIES, FOR REVIEW BY

CONSTRUCTION ACTIVITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

PLAN PRIOR TO THE START OF CONSTRUCTION AND DURING CONSTRUCTION ON-SITE IN ACCORDANCE WITH THE EPA

PROVIDING AND IMPLEMENTING AN ENVIRONMENTAL PROTECTION AGENCY (EPA) STORM WATER POLLUTION PREVENTION

DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "BOUNDARY & LOCATION SURVEY, 2400, 2402, & 2406

CRANBERRY HIGHWAY", DATED JULY 12, 2022, PROVIDED TO NOBIS GROUP. BY CONTROL POINT ASSOCIATES, INC.

- 2. DISTURBANCES OF AREAS SHALL BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEKS DURING THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.
- 3. PERFORM DEMOLITION OF EXISTING SITE FEATURES AS SHOWN ON DEMOLITION PLAN.
- 4. PERFORM CLEARING AND GRUBBING TO LIMITS SHOWN ON DEMOLITION PLAN.
- 5. EXCAVATE AND GRADE, THEN INSTALL LOAM, SEED, AND EROSION CONTROL MATTING TO STABILIZE DETENTION PONDS AND OTHER STORMWATER CONTROLS AS NEEDED ...
- 6. REMOVE AND TEMPORARILY STOCKPILE LOAM AND TOPSOIL FOR REUSE, IF NEEDED, ON SITE. SEED AND/OR MULCH STOCKPILES AND ENCIRCLE WITH SILT FENCE.
- 7. CONDUCT ALL UNDERGROUND UTILITY STRUCTURE AND PIPING INSTALLATION, BACKFILL, AND COMPACTING.
- 8. CONSTRUCT BUILDING FOUNDATION.

9. PLACE AND COMPACT NEW GRAVEL COURSES IN THE PARKING, LOADING, SIDEWALK, AND GRAVEL ACCESS DRIVE AREAS

10. PLACE, GRADE, AND STABILIZE DISTURBED AREAS WITH TEMPORARY SEEDING AND MULCHING.

11.BEGIN CONSTRUCTION OF BUILDING AND REMAINING SITE WORK. 12. PLACE PAVEMENT COURSES, SIDEWALKS, AND CURBING.

13. ALL CUT AND FILL SLOPES SHALL BE STABILIZED, LOAMED, SEEDED, AND MULCHED.

- 14. COMPLETE PERMANENT SEEDING AND LANDSCAPING IN ACCORDANCE WITH THE LANDSCAPE DESIGN AND DETAILS. 15. SWEEP COMPLETED PAVEMENT AND CLEAN OUT CATCH BASINS AND DRAINAGE PIPES DURING CONSTRUCTION
- CLOSE-OUT PROCEDURES. PROPERLY DISPOSE OF COLLECTED SEDIMENT AND DEBRIS.

16. REMOVE TEMPORARY EROSION CONTROL MEASURES AND PROPERLY DISPOSE OF FOLLOWING CONSTRUCTION AND ONCE FULL GROUND COVER HAS BEEN ESTABLISHED.

"STORMWATER MANAGEMENT REPORT FOR TRUE STORAGE FACILITY, 2400 & 2402 CRANBERRY HIGHWAY, WAREHAM, MA" DATED MARCH 2023 PREPARED BY NOBIS GROUP.

DRAIN MANHOLE CATCH BASIN

UTILITY POLE

PAD MOUNTED TRANSFORMER

SANITARY SEWER MANHOLE

SANITARY SEWER CLEAN-OUT

HYDRANT WATER VALVE

WATER SHUT OFF

WATER SUPPLY WELL

GAS SHUT OFF

GAS METER

SPOT GRADE

CURB SPOT GRADE

LIGHT POLE

TREE

SIGN POST

CONCRETE

GRAVEL

RIP RAP

FLOW DIRECTION

INLET PROTECTION

SLOPE & DIRECTION

TEST PIT LOCATION

BORING LOCATION

MONITORING WELL LOCATION

PERC. TEST LOCATION

PHOTO LOCATION / DIRECTION

STEEP SLOPE

HIS WORK IS ANTICIPATED TO BEGIN IN THE SUMMER/FALL 2023 WITH A FINAL COMPLETION DATE IN SUMMER/FALL 2024. NO WINTER EARTH DISTURBANCE IS EXPECTED FOR THIS PROJECT. SHOULD WINTER WORK BE REQUIRED, THIS PLAN AND THE ACCOMPANYING STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MODIFIED ACCORDINGLY.

EROSION CONTROL IMPLEMENTATION SCHEDULE THE FOLLOWING GENERAL SCHEDULE IDENTIFIES THE PROPOSED SOIL EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT MEASURES THAT ARE TO BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION:

* PERFORM LIMITED GRUBBING, STRIPPING AND SITE GRADING ONLY AS NEEDED TO COMPLETE IMMEDIATE WORK GOALS. * BLOCK STORM WATER FLOW AS NECESSARY TO INSTALL ALL STORM WATER STRUCTURES IN THE DRY. * INSTALL PERMANENT STORM DRAIN SYSTEM. * INSTALL TEMPORARY SOIL STABILIZATION MEASURE INCLUDING SEED, MULCH, FERTILIZER, MATTING, ETC.

* REDIRECT FLOWS INTO FINISHED STRUCTURES PRIOR TO FILL OPERATIONS. * PLACE HUMUS AND CONDUCT PERMANENT SEEDING AND MULCHING OF ALL DISTURBED GROUND.

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED, AS WRITTEN HEREIN AND AS DEPICTED ON THE ACCOMPANYING PLAN, FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS COMPLETE:

TEMPORARY GRADING: TEMPORARY GRADING DURING CONSTRUCTION SHOULD BE PERFORMED IN SUCH A MANNER TO FACILITATE MAXIMUM INFILTRATION OF STORMWATER AND MINIMIZE OR ELIMINATE STORMWATER RUNOFF FROM THE SITE MULCH: MULCHING WITH LOOSE HAY OR STRAW, AT A RATE OF 2 TONS PER ACRE, SHALL BE DONE IMMEDIATELY AFTER EACH AREA HAS BEEN FINAL GRADED. WHEN SEED FOR EROSION CONTROL IS SOWN PRIOR TO PLACING THE MULCH, THE

MULCH SHOULD BE PLACED ON THE SEEDED AREAS WITHIN 48 HOURS AFTER SEEDING. TACKIFIER: PLACEMENT OF SOIL TACKIFIER HAS PROVEN TO BE AN EFFECTIVE METHOD OF PREVENTING SOIL AND ADHERING MULCH IN PLACE. THE PLACEMENT OF A SOIL TACKIFIER SHOULD BE PERFORMED IN ACCORDANCE WITH THE

MANUFACTURERS SPECIFICATIONS AND SHOULD BE REAPPLIED AS NECESSARY TO CONTROL AIR BORN DUST AND SOIL, AND MULCH LOSS UNTIL PERMANENT VEGETATION IS ESTABLISHED.

ROAD CLEANING: THE CONTRACTOR SHALL SWEEP ROADS DAILY, OR AS NEEDED TO MAINTAIN CLEAN PAVED SURFACES AT ALL CONSTRUCTION ACCESS/EGRESS POINTS.

DUST CONTROL: THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED TO PREVENT AIRBORNE DUST PARTICLES FROM LEAVING THE SITE. DUST CONTROL MEASURES SHALL CONSIST OF USE OF A WATER TRUCK EQUIPPED WITH A SPRAY-BAR THAT DISSIPATES THE WATER EVENLY OVER THE SURFACE.

PERMANENT STABILIZATION: GRASS, TREES, SHRUBS AND MULCHED PLANTING BEDS WILL BE CONSTRUCTED AND MAINTAINED IN LOCATIONS AS SHOWN ON THE DRAWINGS TO STABILIZE AREAS NOT WITHIN THE PARKING LOT/BUILDING FOOTPRINT. THE CONTRACTOR WILL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL FOR ONE YEAR AFTER

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: 1. BASE COARSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;

2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; 3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED;

ALL ROADWAYS/PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

SHOULD EXCAVATION DEWATERING BE REQUIRED, THE CONTRACTOR MUST INSURE THAT ANY EXCAVATION DEWATERING DISCHARGES ARE NOT CONTAMINATED. NOTE: THE WATER IS CONSIDERED UNCONTAMINATED IF THERE IS NO GROUNDWATER CONTAMINATION WITHIN 1,000 FEET OF THE DISCHARGE.

THE CONTRACTOR MUST TREAT ANY UNCONTAMINATED EXCAVATION DEWATERING AS NECESSARY TO REMOVE SUSPENDED SOLIDS AND TURBIDITY DURING CONSTRUCTION. THE DISCHARGES MUST BE SAMPLED AT A LOCATION PRIOR TO MIXING WITH STORM WATER OR STREAM FLOW AT LEAST ONCE PER WEEK DURING WEEKS WHEN DISCHARGES OCCUR. THE SAMPLES MUST BE ANALYZED FOR TOTAL SUSPENDED SOLIDS (TSS) AND MUST MEET MONTHLY AVERAGE AND MAXIMUM DAILY TSS LIMITATIONS OF 50 MILLIGRAMS PER LITER (MG/L), RESPECTIVELY.

STORMWATER POLLUTION PREVENTION PLAN:

THE PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE USEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT, WHICH INCLUDES A WRITTEN STORM WATER POLLUTION PREVENTION (SWPPP) PLAN FOR CONSTRUCTION. THE SWPPP PLAN SHALL OUTLINE DETAILED SPECIFICATIONS FOR IMPLEMENTATION, INSPECTIÓN, AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLIANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN, SHALL BE RESPONSIBLE FOR AMENDING THE SWPPP ACCORDINGLY, AND SHALL BE RESPONSIBLE FOR ANY PENALTIES RESULTING FROM LACK OF COMPLIANCE.

SPECIFICATIONS FOR TEMPORARY AND PERMANENT SEEDING:

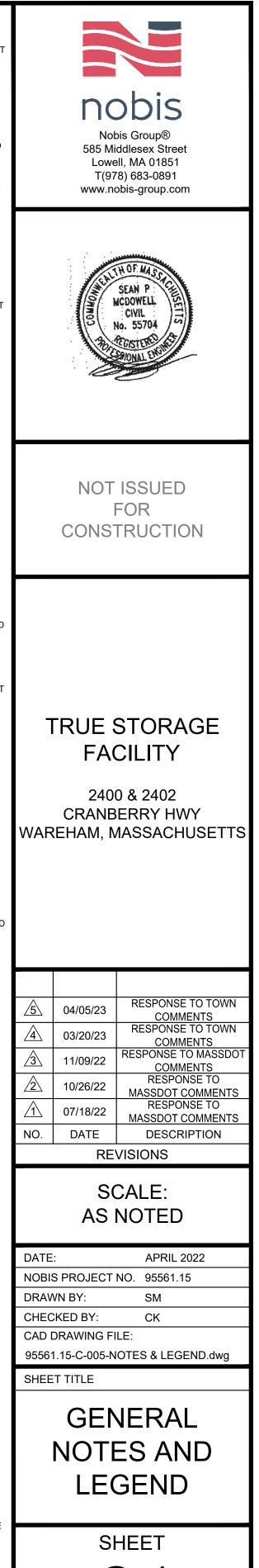
GRASS SEED MIXES SHALL CONSIST OF THE MIXTURES AS DETAILED IN THE FOLLOWING

E	ROSION CONTROL SEED MIX	
	BY % MASS	% GERMINATION (MIN.)
(MIN.)	80 (MIN.)	85
CREEPING)	4 (MIN.)	80
GRASS	3 (MIN.)	90
	3 (MIN.)	90
RASS	0.5 (MAX.)	
SEED	0.5 (MAX.)	
	1.0 (MAX.)	
	PERMANENT SEED MIX	
	BY % MASS	% GERMINATION (MIN.)
REEPING)	50	85
	25	85
GRASS	10	90
	10	85
R	5	85

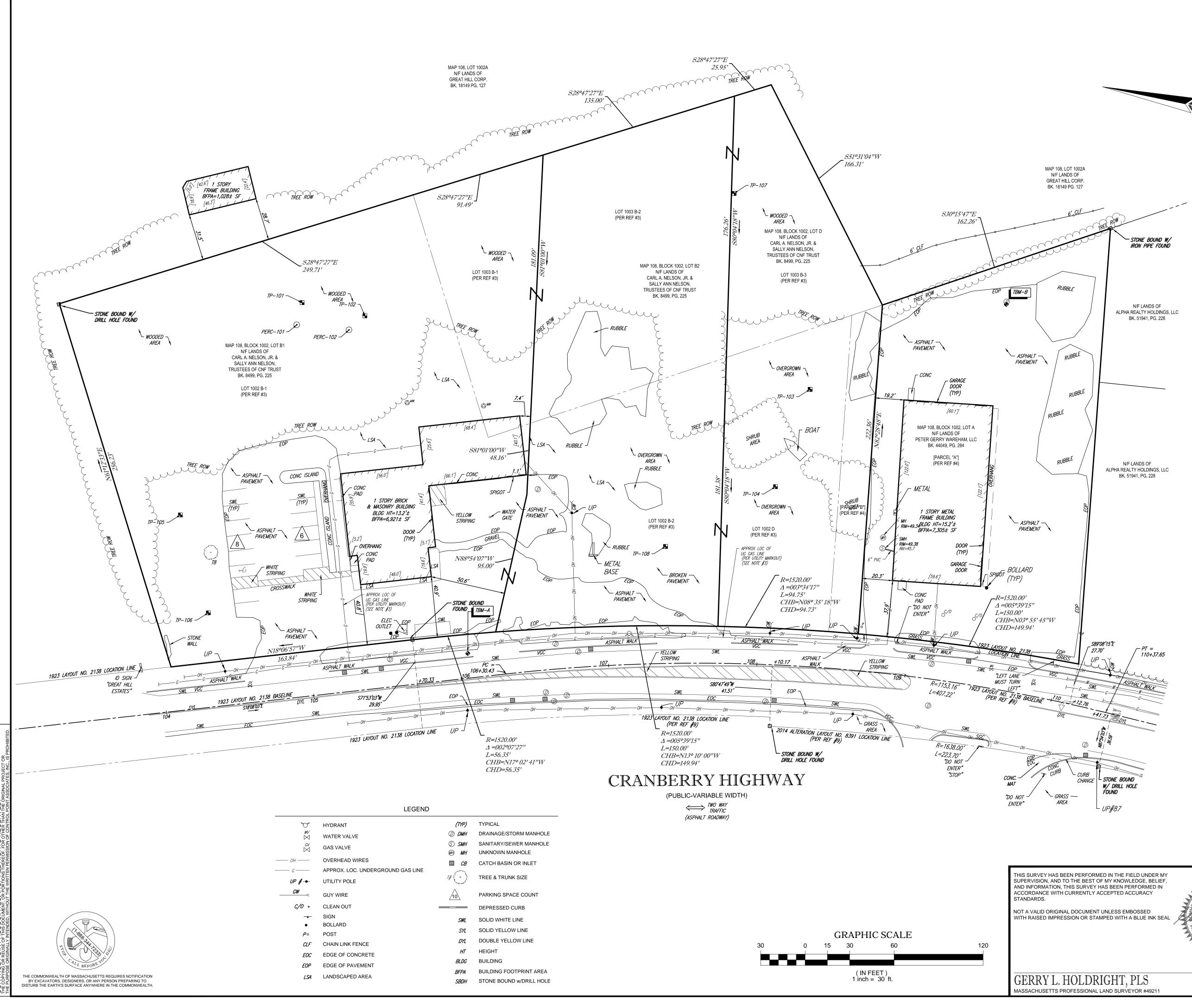
WINTER CONSTRUCTION NOTES

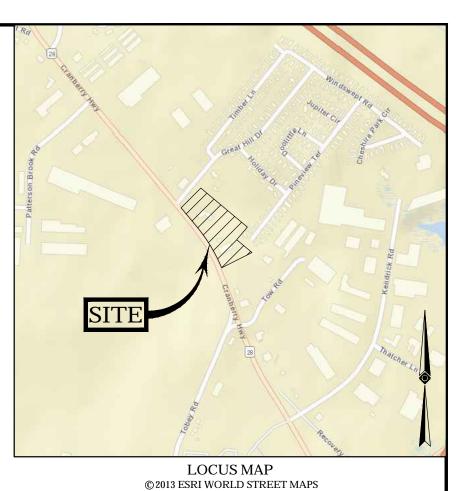
ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE ELSEWHERE. MULCH REMAINING IN THE SPRING SHALL BE REMOVED AND REPLACED AT RATE OF 2 TONS PER ACRE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND TACKIFIER SHALL NOT OCCUR OVER ACCUMULATED

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE



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NOT TO SCALE

NOTES:

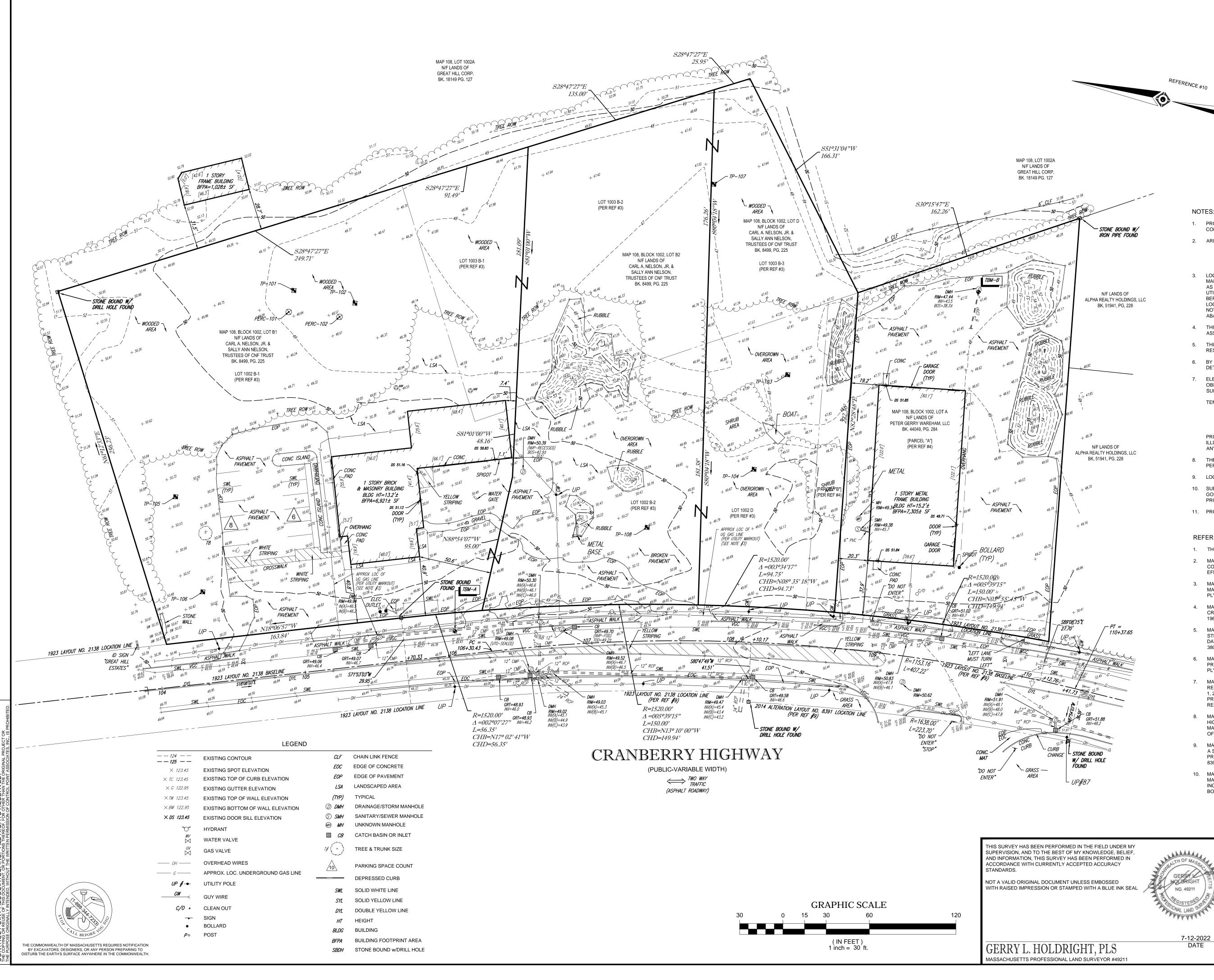
REFERENCE #10

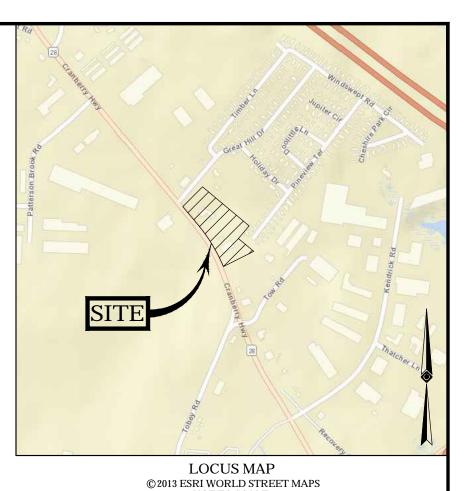
- 1. PROPERTY KNOWN AS LOTS A, B1, B2 & D AS SHOWN ON THE TOWN OF WAREHAM, PLYMOUTH COUNTY, COMMONWEALTH OF MASSACHUSETTS MAP NO. 108.
- 2. AREA: LOT A = 38,487 SQUARE FEET OR 0.883 ACRES LOT B-1 = 80,353 SQUARE FEET OR 1.845 ACRES LOT B-2 = 44,797 SQUARE FEET OR 1.028 ACRES LOT D = 31 218 SQUARE FEET OR 0.717 ACRES
 - LOT D = 31,218 SQUARE FEET OR 0.717 ACRES TOTAL = 194,855 SQUARE FEET OR 4.466
- 3. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
- 4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
- 5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND IS SUBJECT TO THE
- RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X-UNSHADED (AREAS
- DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. #27. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE,
- PERMANENT ADDITION, ETC.
- LOCUS PROPERTIES ARE LOCATED WHOLLY WITHIN THE INDUSTRIAL ZONING DISTRICT.
 SUBJECT PROPERTIES WERE CHECKED FOR THE PRESENCE OF WETLANDS ON JANUARY 12, 2021 BY GODDARD CONSULTING, LLC, CERTIFIED WETLAND SCIENTISTS. NO WETLANDS WERE FOUND ON THE PROPERTIES.
- 10. PROPERTY LINES BETWEEN LOTS A, B-1, B-2 & D TO BE ELIMINATED AT FUTURE DATE.

REFERENCES:

- 1. THE TAX ASSESSOR'S MAP OF WAREHAM, PLYMOUTH COUNTY, MAP #108.
- MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, PLYMOUTH COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) PANEL 486 OF 650," MAP NUMBER 25023C0486J, MAP EFFECTIVE DATE: JULY 17, 2012.
- 3. MAP ENTITLED "DIVISION OF LAND PREPARED FOR M. EDWIN STRAWN, CRANBERRY HIGHWAY, WAREHAM, MASS," PREPARED BY CHARLES . ROWLEY & ASSOCIATES, DATED OCTOBER 19, 1977. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 19, PLAN 971.
- 4. MAP ENTITLED "PLAN OF LAND TO BE CONVEYED BY ALFRED H. HERMANSON & JOHN W. HERMANSON, CRANBERRY HIGHWAY, WAREHAM, MASS.," PREPARED BY WALTER E. ROWLEY & ASSOCIATES, DATED MAY 7, 1968. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 3444, PLAN 537.
- 5. MAP ENTITLED "PLAN OF LAND TO BE CONVEYED BY GREAT HILL MOBILEHOMES, INC., & ELMER MERRITT STRAWN, CRANBERRY HIGHWAY, WAREHAM, MASS," PREPARED BY WALTER E. ROWLEY & ASSOCIATES, DATED DECEMBER 17, 1971. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 3802, PLAN 606.
- 6. MAP ENTITLED "PLAN OF LAND SURVEYED FOR ELMER MERRITT STRAWN, GREAT HILL, WAREHAM, MASS.," PREPARED BY WALTER E. ROWLEY & ASSOCIATES, DATED NOVEMBER 24, 1969. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 3584, PLAN 696.
- . MAP ENTITLED "APPROVAL NOT REQUIRED PLAN DRANW FOR: NANCY S. ANGUS, TRUSTEE OF CRAN-WAY REALTY TRUST, 2416 CRANBERRY HIGHWAY, LLC, 2404, 2416, 2414 CRANBERRY HIGHWAY & TOW ROAD, LOTS 1, 2, 3, & 4, MAP 108, TOWN OF WAREHAM, PLYMOUTH COUNTY, COMMONWEALTH OF MASSACHUSETTS," PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED JANUARY 30, 2019. LAST REVISED MARCH 20, 2019. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 63, PLAN 1009.
- 8. MAP ENTITLED "PLAN OF ROAD IN THE TOWN OF WAREHAM, PLYMOUTH COUNTY, LAID OUT AS A STATE HIGHWAY BY THE DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS," PREPARED BY THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS, DATED NOVEMBER 6, 1923. LAYOUT NO. 2138, SHEET 10 OF 16.
- 9. MAP ENTITLED "PLAN OF ROAD IN THE TOWN OF WAREHAM, PLYMOUTH COUNTY, ALTERED AND LAID OUT AS A STATE HIGHWAY BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION," PREPARED BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, DATED JUNE 12, 2014. LAYOUT NO. 8391, SHEET 1 OF 5.
- 10. MAP ENTITLED "APPROVAL NOT REQUIRED PLAN, DRAWN FOR DONALD ANGUS IN WEST WAREHAM, MASSACHUSETTS, PREPARED FOR: CRAN-WAY REALTY TRUST," PREPARED BY EASTBOUND LAND SURVEY, INC., DATED FEBRUARY 3, 2006. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 52, PLAN 105.

	2		UPDATED PER MA DOT COMMENTS - R.J.K. G.L.H.						
	1		REVISED TO ADD BORING LOCATIONS C.W. M.D. G.L.H.						
	No.		DESCRIPT	ION OF REVISION	ł	FIELD CREW	DRAWN:	APPROVED:	DATE
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7-12-2022 DA DDICUTT DI C	C. DRA R.	LD CREW W. WN: J.K.	A 352 SO 508 WV	ONTR SSOCI TURNPIKE RO UTHBOROUGH .948.3000 - 508 WW.CPASURVE	A T E S, AD I, MA 01772 .948.3003 FAX Y.COM	INC	CHA • HAUPI MANH/ MT L	LBANY, NY 5 LFONT, PA 2 PAUGE, NY 6 ATTAN, NY 6 AUREL, NJ 6 ARREN, NJ 9	215-712-9800 331-580-2645 546-780-0411 509-857-2099 908-668-0099
OLDRIGHT, PLS DATE		IEWED:	APPROVED:	DATE	SCALE	FILE NO.		DWG. NO.	
ESSIONAL LAND SURVEYOR #49211	R.	J.K.	G.L.H.	01-25-2021	1"=30'	03-20	0378	1 0	F I





NOT TO SCALE

NOTES:

- 1. PROPERTY KNOWN AS LOTS A, B1, B2 & D AS SHOWN ON THE TOWN OF WAREHAM, PLYMOUTH COUNTY, COMMONWEALTH OF MASSACHUSETTS MAP NO. 108. 2. AREA: LOT A = 38,487 SQUARE FEET OR 0.883 ACRES
 - LOT B-1 = 80,353 SQUARE FEET OR 1.845 ACRES LOT B-2 = 44,797 SQUARE FEET OR 1.028 ACRES LOT D = 31,218 SQUARE FEET OR 0.717 ACRES TOTAL = 194,855 SQUARE FEET OR 4.466
- 3. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
- THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT 4. ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND IS SUBJECT TO THE
- RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN. 6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X-UNSHADED (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. #2
- ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS) TAKEN AT THE TIME OF THE FIELD SURVEY.

TEMPORARY BENCH MARKS SET: TBM-A: MAG NAIL SET IN ASPHALT WALK ON EASTERLY SIDE OF CRANBERRY HIGHWAY.

TBM-B: MAG NAIL SET IN ASPHALT PAVEMENT. ELEVATION = 47.47'

ELEVATION = 49.77'

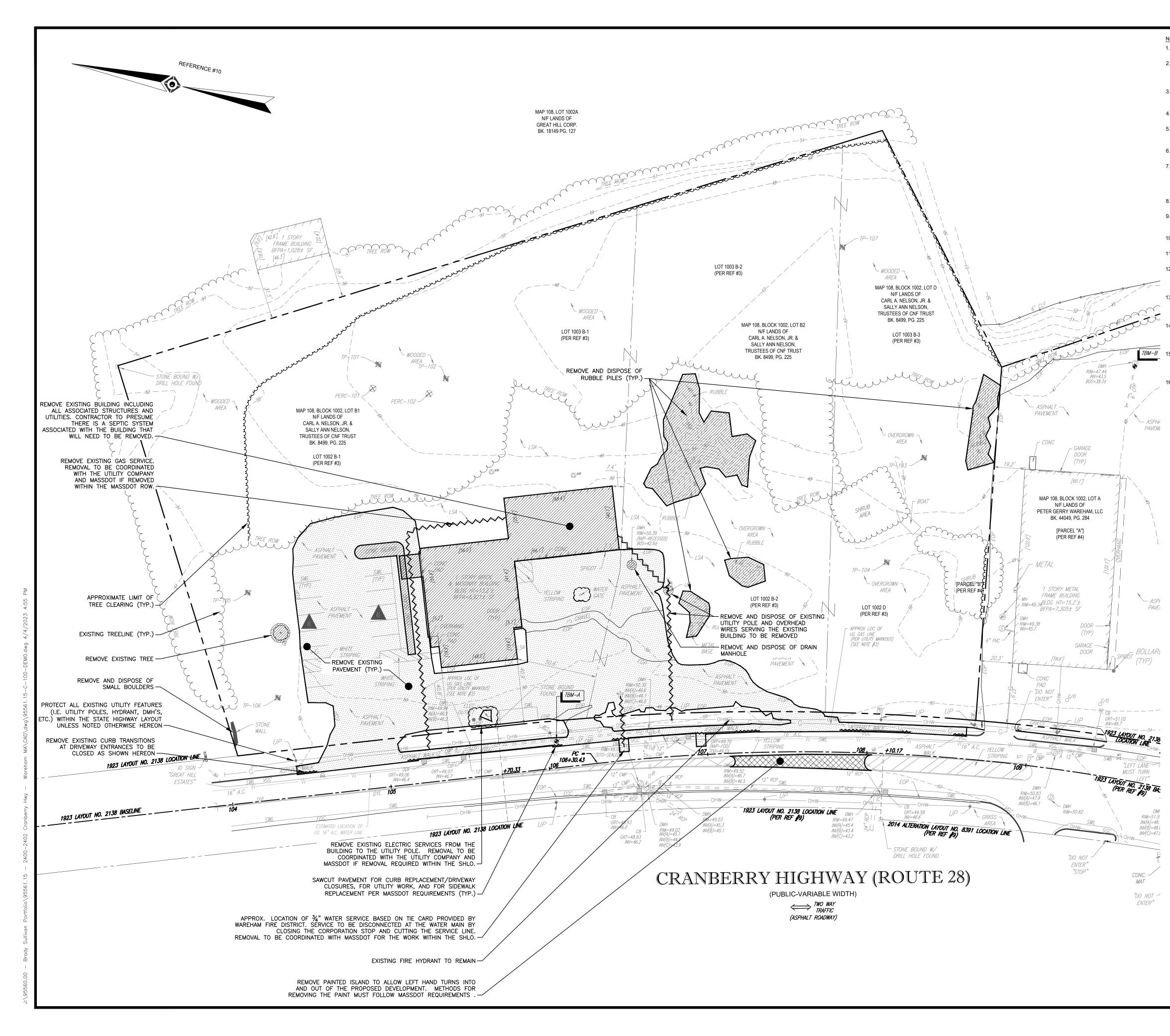
PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.

- THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
- 9. LOCUS PROPERTIES ARE LOCATED WHOLLY WITHIN THE INDUSTRIAL ZONING DISTRICT.
- 10. SUBJECT PROPERTIES WERE CHECKED FOR THE PRESENCE OF WETLANDS ON JANUARY 12, 2021 BY GODDARD CONSULTING, LLC, CERTIFIED WETLAND SCIENTISTS. NO WETLANDS WERE FOUND ON THE PROPERTIES.
- 11. PROPERTY LINES BETWEEN LOTS A, B-1, B-2 & D TO BE ELIMINATED AT FUTURE DATE.

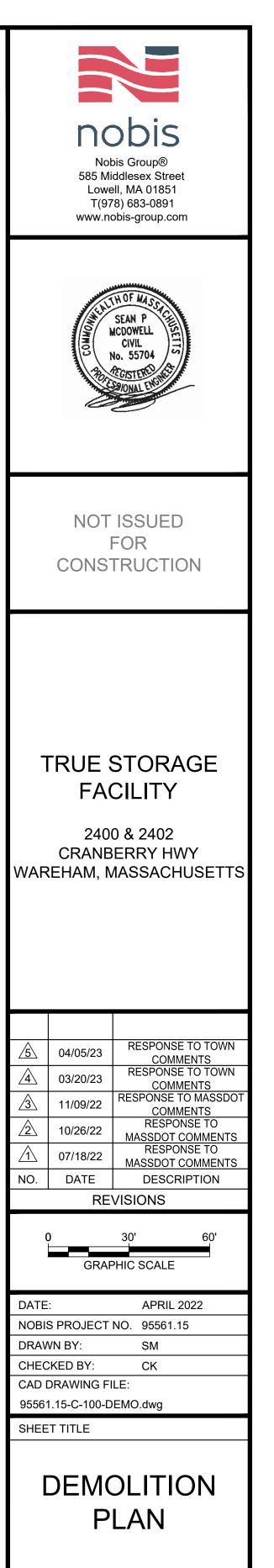
REFERENCES:

- 1. THE TAX ASSESSOR'S MAP OF WAREHAM, PLYMOUTH COUNTY, MAP #108.
- 2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM. FIRM, FLOOD INSURANCE RATE MAP, PLYMOUTH COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) PANEL 486 OF 650," MAP NUMBER 25023C0486J, MAP EFFECTIVE DATE: JULY 17, 2012.
- 3. MAP ENTITLED "DIVISION OF LAND PREPARED FOR M. EDWIN STRAWN, CRANBERRY HIGHWAY, WAREHAM, MASS," PREPARED BY CHARLES . ROWLEY & ASSOCIATES, DATED OCTOBER 19, 1977. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 19, PLAN 971.
- 4. MAP ENTITLED "PLAN OF LAND TO BE CONVEYED BY ALFRED H. HERMANSON & JOHN W. HERMANSON, CRANBERRY HIGHWAY, WAREHAM, MASS.," PREPARED BY WALTER E. ROWLEY & ASSOCIATES, DATED MAY 7, 1968. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 3444, PLAN 537.
- MAP ENTITLED "PLAN OF LAND TO BE CONVEYED BY GREAT HILL MOBILEHOMES, INC., & ELMER MERRITT 5. STRAWN, CRANBERRY HIGHWAY, WAREHAM, MASS," PREPARED BY WALTER E. ROWLEY & ASSOCIATES, DATED DECEMBER 17, 1971. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 3802, PLAN 606.
- MAP ENTITLED "PLAN OF LAND SURVEYED FOR ELMER MERRITT STRAWN, GREAT HILL, WAREHAM, MASS.," 6. PREPARED BY WALTER E. ROWLEY & ASSOCIATES, DATED NOVEMBER 24, 1969. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 3584, PLAN 696.
- MAP ENTITLED "APPROVAL NOT REQUIRED PLAN DRANW FOR: NANCY S. ANGUS, TRUSTEE OF CRAN-WAY 7. REALTY TRUST, 2416 CRANBERRY HIGHWAY, LLC, 2404, 2416, 2414 CRANBERRY HIGHWAY & TOW ROAD, LOTS 1, 2, 3, & 4, MAP 108, TOWN OF WAREHAM, PLYMOUTH COUNTY, COMMONWEALTH OF MASSACHUSETTS," PREPARED BY CONTROL POINT ASSOCIATES, INC., DATED JANUARY 30, 2019. LAST REVISED MARCH 20, 2019. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 63, PLAN 1009.
- MAP ENTITLED "PLAN OF ROAD IN THE TOWN OF WAREHAM, PLYMOUTH COUNTY, LAID OUT AS A STATE 8. HIGHWAY BY THE DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS," PREPARED BY THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS, DATED NOVEMBER 6, 1923. LAYOUT NO. 2138, SHEET 10 OF 16.
- MAP ENTITLED "PLAN OF ROAD IN THE TOWN OF WAREHAM, PLYMOUTH COUNTY, ALTERED AND LAID OUT AS 9. A STATE HIGHWAY BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION," PREPARED BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, DATED JUNE 12, 2014. LAYOUT NO. 8391, SHEET 1 OF 5.
- 10. MAP ENTITLED "APPROVAL NOT REQUIRED PLAN, DRAWN FOR DONALD ANGUS IN WEST WAREHAM, MASSACHUSETTS, PREPARED FOR: CRAN-WAY REALTY TRUST," PREPARED BY EASTBOUND LAND SURVEY, INC., DATED FEBRUARY 3, 2006. RECORDED WITH THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN BOOK 52, PLAN 105.

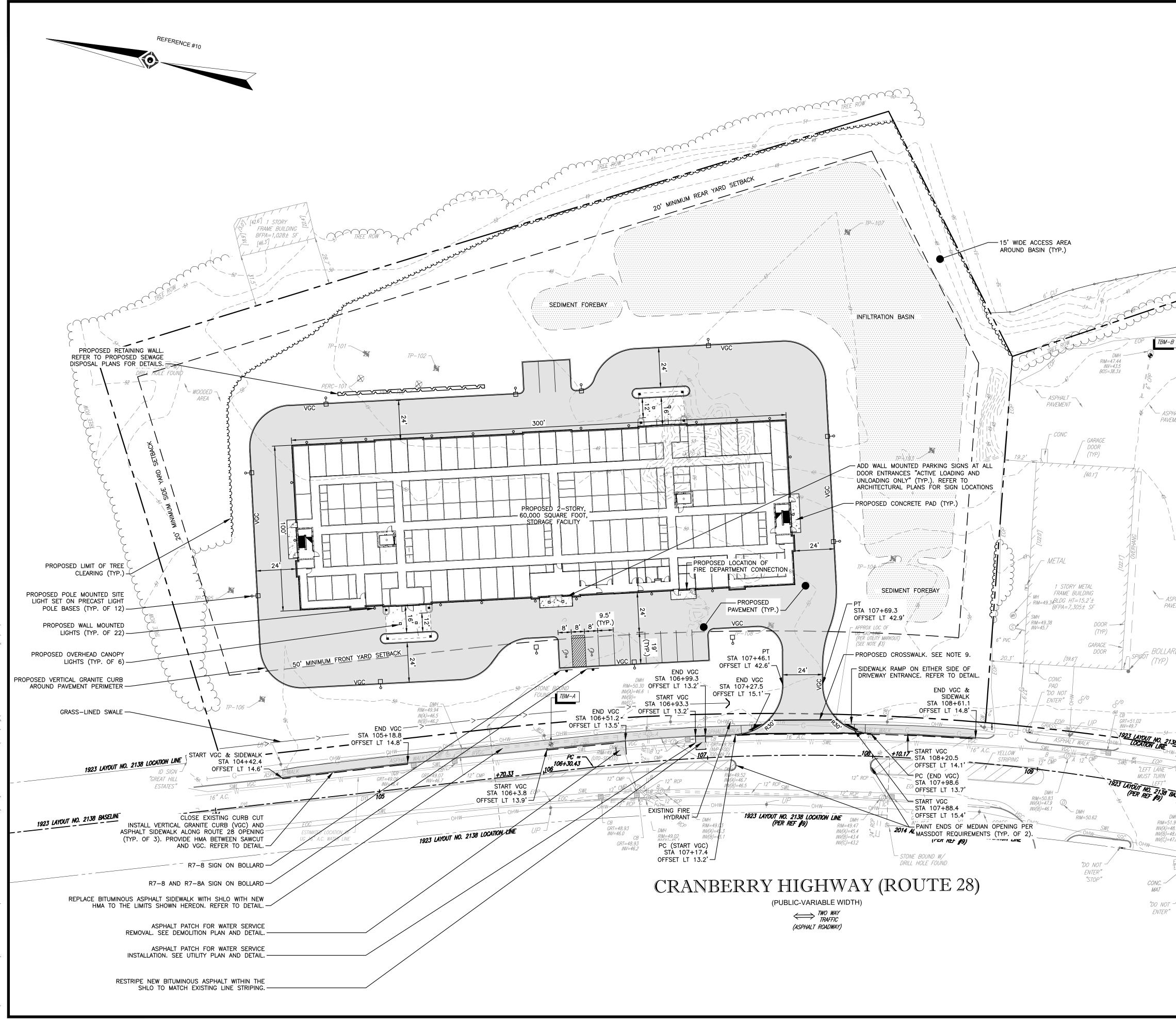
	2		UPDATED PER	MA DOT COMMENT	S	-	R.J.K.	G.L.H.	7-12-2022
	1		REVISED TO ADD BORING LOCATIONS C.W. M.D. G.L.H.						
	No.		DESCRIPT	ION OF REVISION	FI	ELD CREW	DRAWN:	APPROVED:	DATE
N PERFORMED IN THE FIELD UNDER MY THE BEST OF MY KNOWLEDGE, BELIEF, IIS SURVEY HAS BEEN PERFORMED IN JRRENTLY ACCEPTED ACCURACY DOCUMENT UNLESS EMBOSSED SION OR STAMPED WITH A BLUE INK SEAL	01-1 FIELD 20-	а DATE 2-2021 воок NO. 17 MA воок PG. 82	BOUNDARY, TOPOGRAPHIC & UTILITY SURVE NOBIS ENGINEERING 2400, 2402 & 2406 CRANBERRY HIGHWAY LOTS A, B1, B2 & D, BLOCK 1002, MAP 108 TOWN OF WAREHAM, PLYMOUTH COUNTY COMMONWEALTH OF MASSACHUSETTS						JRVEY
7-12-2022	FIELD C.V DRAV R.J	/N:	A 352 SOU 508	SSOCI TURNPIKE RC UTHBOROUGH 948.3000 - 508 VW.CPASURVE	A T E S, AD I, MA 01772 .948.3003 FAX		CHA HAUPI MANH MT L	LBANY, NY 5 LFONT, PA 2 PAUGE, NY 6 ATTAN, NY 6 AUREL, NJ 6 ARREN, NJ 9	15-712-9800 31-580-2645 46-780-0411 609-857-2099
OLDRIGHT, PLS DATE	REVIE		APPROVED: G.L.H.	DATE 01-25-2021	SCALE 1"=30'	FILE NO.	0378	dwg. no. 1 O	4



- 1. REFER TO SURVEYOR'S PLAN FOR PLAN REFERENCES ADDITIONAL NOTES, EXISTING DRAINAGE AND SANITARY SEWER INVERT INFORMATION.
- LOCATION AND ELEVATION OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE TOWN FIRE AND POLICE DEPARTMENTS.
 DEMOLISH STRUCTURES AND SITE FEATURES AS SHOWN HEREON AND REMOVE
- PAVEMENT TO LIMITS INDICATED.
 5. CONTRACTOR IS RESPONSIBLE FOR OFF-SITE DISPOSAL OF CONSTRUCTION DEMOLITION DEBRIS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL
- REGULATIONS.6. CONTRACTOR WILL COORDINATE REMOVAL/RELOCATION OF UNDERGROUND GAS AND OVERHEAD UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
- 7. ABATEMENT OF HAZARDOUS MATERIALS SUCH AS LEAD PAINT, ASBESTOS, ETC., WILL BE PERFORMED BY A LICENSED CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION. A PRE-DEMOLITON SURVEY WILL BE PERFORMED BY CONTRACTOR PRIOR TO THE START OF DEMOLITION ACTIVITIES TO ENSURE PROPER DEMOLITION
- AND DISPOSAL PROCEDURES.8. DEMOLITION SEQUENCING WILL BE AS DIRECTED BY THE PRIME CONTRACTOR AND THE ARCHITECT.
- 9. ALL WORK PERFORMED TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE MUNICIPAL CONSTRUCTION STANDARDS AND MASSDOT CONSTRUCTION STANDARDS WITHIN THE ROUTE 28 RIGHT-OF-WAY.
- REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND FOR CONSTRUCTION SEQUENCING NOTES.
 CONTRACTOR WILL NOTIFY OWNER, ENGINEER, AND ARCHITECT IMMEDIATELY IF SITE
- CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
 12. CONTRACTOR WILL PROTECT ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND ALL
- CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR WILL PROTECT ALL SITE FEATURES OUTSIDE LIMIT OF WORK SHOWN HEREON. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING SITE FEATURES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
 DEMONSTRACTOR.
- 14. DEMOLITION/REMOVAL OF EXISTING STORMWATER STRUCTURES AND PIPING WILL BE CONDUCTED DRY CONDITIONS TO THE EXTENT PRACTICAL. INSTALLATION OF NEW STRUCTURES AND PIPE WILL BE CONDUCTED PRIOR TO DEMOLITION TO THE EXTENT PRACTICAL.
- TBM-B
 15. EXISTING SEPTIC SYSTEMS WITHIN THE WORK AREA WILL BE DISCONTINUED PRIOR TO DEMOLITION. CONTRACTOR WILL REMOVE EXISTING PIPES CONNECTING TO THE BUILDING AND THE SEPTIC SYSTEM. CONTRACTOR WILL THEN DRAIN AND REMOVE EXISTING SEPTIC TANKS. ALL MATERIALS TO BE DISPOSED OF OFF-SITE.
 16. VELUCIL AD AND NON VELUCIL AD ACCESS DEPONDED FORM MACROPOLY ADD RECURDED
 - 16. VEHICULAR AND NON-VEHICULAR ACCESS PERMITS FROM MASSDOT ARE REQUIRED FOR THE WORK WITHIN THE ROUTE 28 RIGHT-OF-WAY.



SHEET



- 1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE SITE LAYOUT FOR A PROPOSED STORAGE FACILITY BUILDING MERGING EXISTING LOTS A, B1, B2, & D FROM TAX MAP 108 BLOCK 1002.
- 2. ALL BUILDING AND SITE CONSTRUCTION TO COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITY ACT (ADA) 2010 EDITION.
- 3. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR TO USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND / OR SPECIFICATIONS, THE ENGINEER WILL BE NOTIFIED BY THE CONTRACTOR.
- 4. NO JURISDICTIONAL WETLANDS WERE FOUND ON THE SUBJECT PARCEL BASED ON AN INSPECTION MADE BY GODDARD CONSULTING, LLC'S CERTIFIED WETLAND SCIENTIST ON JANUARY 12, 2021. 5. PROPOSED BUILDING WILL BE SERVICED BY MUNICIPAL WATER AND PRIVATE SEPTIC.
- 6. CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
- 7. A MANDATORY PRE-CONSTRUCTION MEETING WILL NEED TO BE HELD PRIOR TO ISSUANCE OF ANY PERMITS TO DISCUSS INSPECTION FEES, CONSTRUCTION SCHEDULE, ETC.
- 8. CONTRACTOR WILL NOTIFY ENGINEERS IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
- 9. CROSSWALK MARKINGS SHALL BE A MINIMUM OF 12-INCH WHITE REFLECTORIZED THERMOPLASTIC. CROSSWALK WIDTH SHALL BE 8 FEET.

PLAN REFERENCES:

- 1. EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "BOUNDARY & LOCATION SURVEY, 2400, 2402, & 2406 CRANBERRY HIGHWAY", DATED JULY 12, 2022, PROVIDED TO NOBIS GROUP. BY CONTROL POINT ASSOCIATES, INC.
- 2. BUILDING FOOTPRINT REPRESENTS FIRST FLOOR PROVIDED TO NOBIS GROUP. BY BRADY SULLIVAN ON APRIL 18, 2022. REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR FOUNDATION AND BUILDING DIMENSIONS.

ZONING ANALYSIS

TAX MAP/BLOCK/LOT: ADDRESS:

ZONING DISTRICT:

MINIMUM LOT AREA

MINIMUM LOT FRONTAGE

30 000 SE

REAR YARD

INDUSTRIAL

TBM-B

└── ASPHA

PAVEMEI

MAP 108 / BLOCK 1002 / LOTS A, B1, B2, & D 2400, 2402, & 2406 CRANBERRY HIGHWAY (MA ROUTE 28) WAREHAM, MASSACHUSETTS INDUSTRIAL

PROVIDED 194,855 SF OR 4.466 ACRES PROVIDED 614.94'

MAXIMUM BUILDING COVERAGEPROVIDED50%17% MAXIMUM LOT COVERAGE 70% OR 60,000 SF

MAXIMUM BUILDING HEIGHT

BUILDING SETBACKS REQUIRED REQUIRED FRONT YARD SIDE YARD

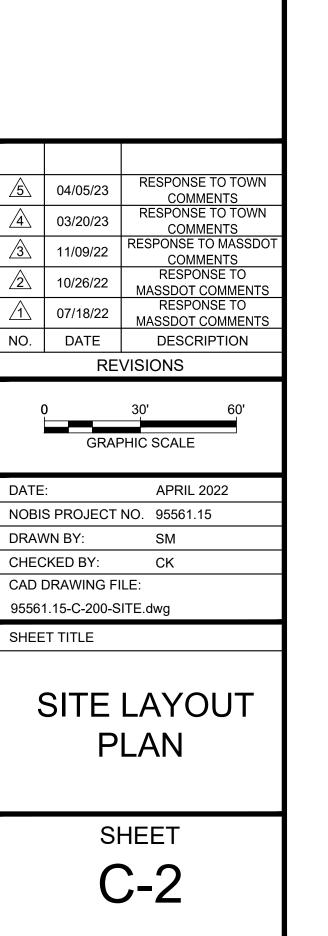
LANDSCAPE BUFFER REQUIRED ADJACENT TO COMMERCIAL USE REQUIRED RESIDENTIAL COMMERCIAL/OFFICE

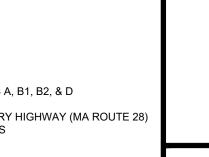
Service ASPHr PAVEM.

- BOLLARD



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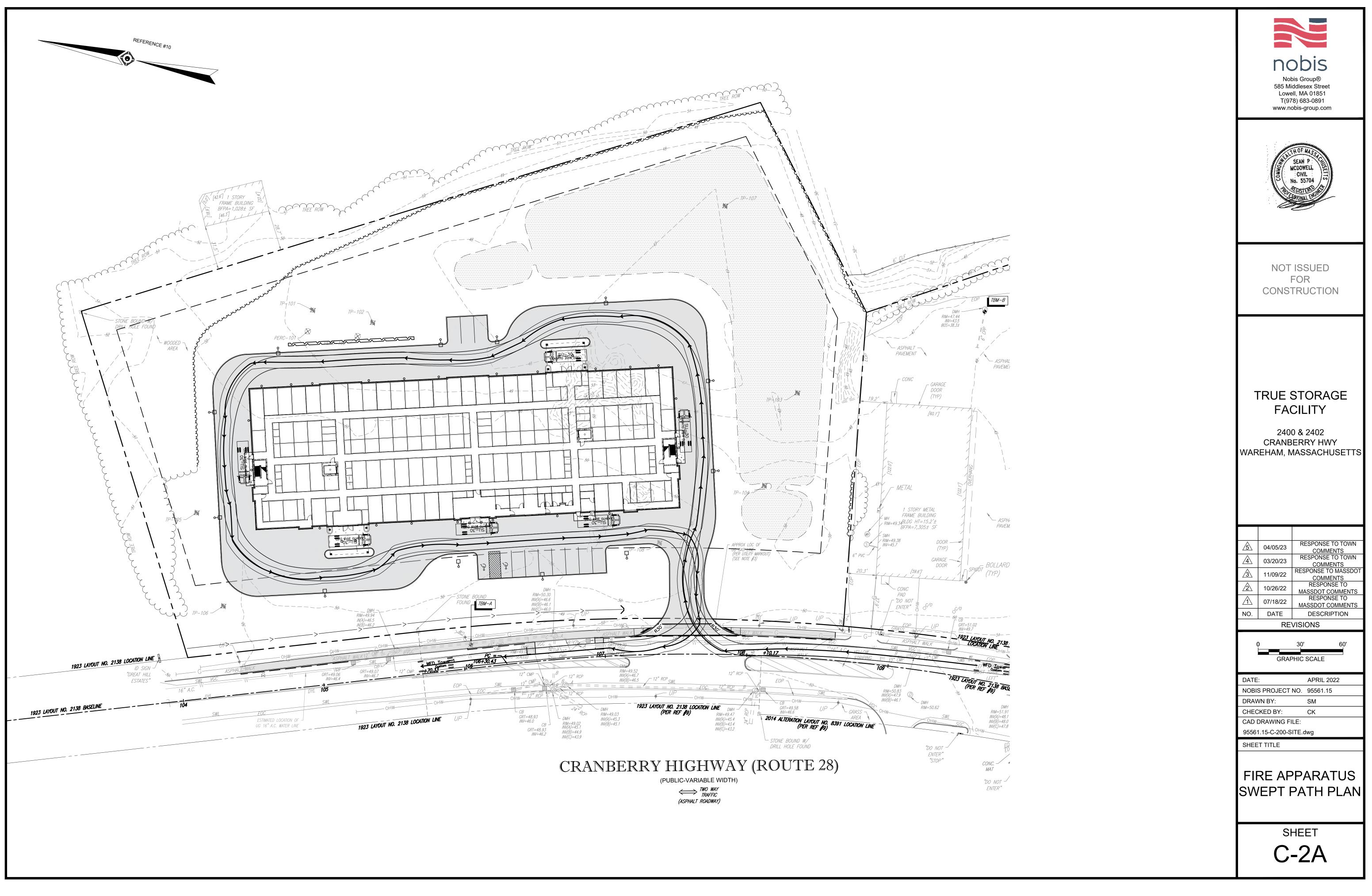
CONSTRUCTION

2400 & 2402 CRANBERRY HWY WAREHAM, MASSACHUSETTS

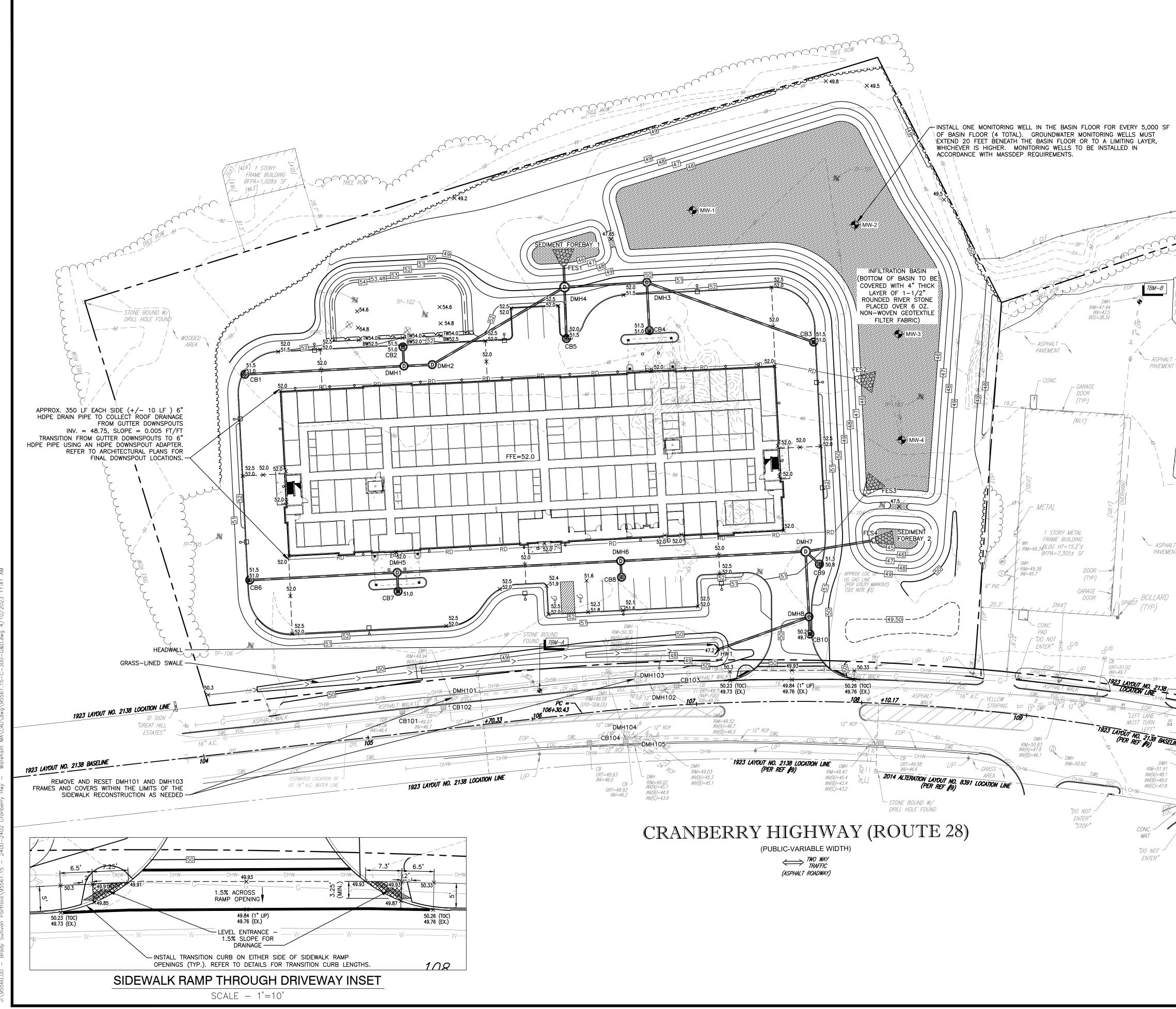
20' (50' ALONG MA ROUTE 28)

PROVIDED

PROVIDED 37% OR 71,500 SF









- 1. REFER TO SURVEYOR'S PLAN FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES. 2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST
- VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. 3. CONTRACTOR WILL NOTIFY OWNER & ENGINEER IMMEDIATELY IF SITE CONDITIONS
- DIFFER FROM WHAT IS SHOWN ON PLAN. 4. SPOT ELEVATIONS SHOWN AT BUILDING CORNERS ARE PROPOSED GROUND
- ELEVATIONS.
- 5. FINISH WALK AND CURB ELEVATIONS WILL BE 6" ABOVE FINISH PAVEMENT. 6. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUNDBREAK.
- 7. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
- 8. ALL WORK ON SITE, ALL UTILITY WORK AND ALL WORK WITHIN THE STATE HIGHWAY LAYOUT (SHLO) WILL BE PERFORMED IN ACCORDANCE WITH THE MASSDOT STANDARD SPECIFICATIONS, LATEST EDITION. 9. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
- 10. ALL STORM DRAIN PIPING WITH LESS THAN 3.0 FEET OF COVER WILL BE OVERLAID WITH 2" THICK RIGID INSULATION FOR THE FULL WIDTH OF PIPE TRENCH. 11. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

DRAINAGE SCHEDULE

CB1 RIM = 51.0 INV. OUT = 48.0 L= 93 LF 12" HDPE (TO DMH1) S = 0.0054 FT/FT

CB2 RIM = 51.0 INV. OUT = 47.6 L= 8 LF 12" HDPE (TO DMH1) S = 0.0125 FT/FT

DMH1 RIM = 51.5 INV. IN = 47.5 INV. IN = 47.5 INV. OUT = 47.4 L = 13 LF 12" HDPE (TO DMH2) S = 0.0077 FT /FT

DMH2 RIM = 51.5 INV. IN = 47.3 INV. OUT = 47.2 L = 89 LF 12" HDPE (TO DMH4) S = 0.0045 FT /FT

CB3 RIM = 51.0 INV. OUT = 47.8 L= 104 LF 12" HDPE (TO DMH3) S = 0.0058 FT/FT

CB4 RIM = 51.0 INV. OUT = 47.4 L= 25 LF 12" HDPE (TO DMH3) S = 0.008 FT/FT

— ASPHALT

PAVEMENT

FOC

DMH3 RIM = 51.0 INV. IN = 47.2 INV. IN = 47.2 INV. OUT = 47.1 L = 46 LF 12" HDPE (TO DMH4) S = 0.0065 FT /FT

CB5 RIM = 51.5 INV. OUT = 47.0 L= 27 LF 12" HDPE (TO DMH4) S = 0.0074 FT/FT

DMH4 (5' ID) RIM = 50.5 INV. IN = 46.8 INV. IN = 46.8 INV. IN = 46.8 INV. OUT = 46.7 L = 11 LF 12" HDPE (TO FES1) S = 0.0091 FT /FT FES1 INV. OUT = 46.6 FES2

INV. OUT = 47.0 FES3 INV. OUT = 47.0

CB6 RIM = 51.0 INV. OUT = 48.0 L= 86 LF 12" HDPE (TO DMH5) S = 0.0058 FT/FT

CB7 RIM = 51.0 INV. OUT = 47.6 L= 8 LF 12" HDPE (TO DMH5) S = 0.0125 FT/FT

DMH5 RIM = 52.0 INV. IN = 47.5 INV. IN = 47.5 INV. OUT = 47.4 L = 132 LF 12" HDPE (TO DMH6) S = 0.0053 FT /FT

CB8 RIM = 51.2 INV. OUT = 46.8 L= 6 LF 12" HDPE (TO DMH6) S = 0.0167 FT/FT

DMH6 RIM = 51.5 INV. IN = 46.7 INV. IN = 46.7 INV. OUT = 46.6 L = 108 LF 12" HDPE (TO DMH7) S = 0.0056 FT /FT

CB9 RIM = 50.8 INV. OUT = 46.1 L= 7 LF 12" HDPE (TO DMH7) S = 0.0143 FT/FT

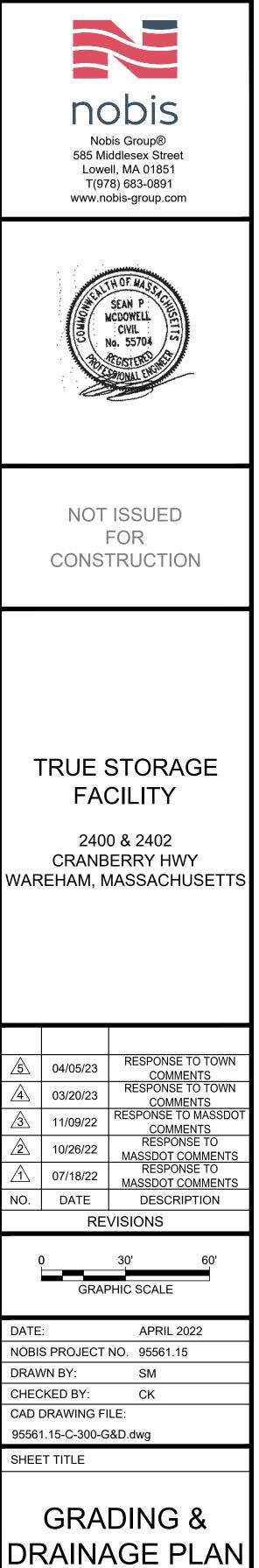
CB10 RIM = 49.7 INV. OUT = 46.4 L = 7 LF 12" HDPE (TO DMH8) S = 0.0143 FT/FT

HW1 INV. OUT = 47.2 L = 56 LF 12" HDPE (TO DMH8) S = 0.0161 FT /FT

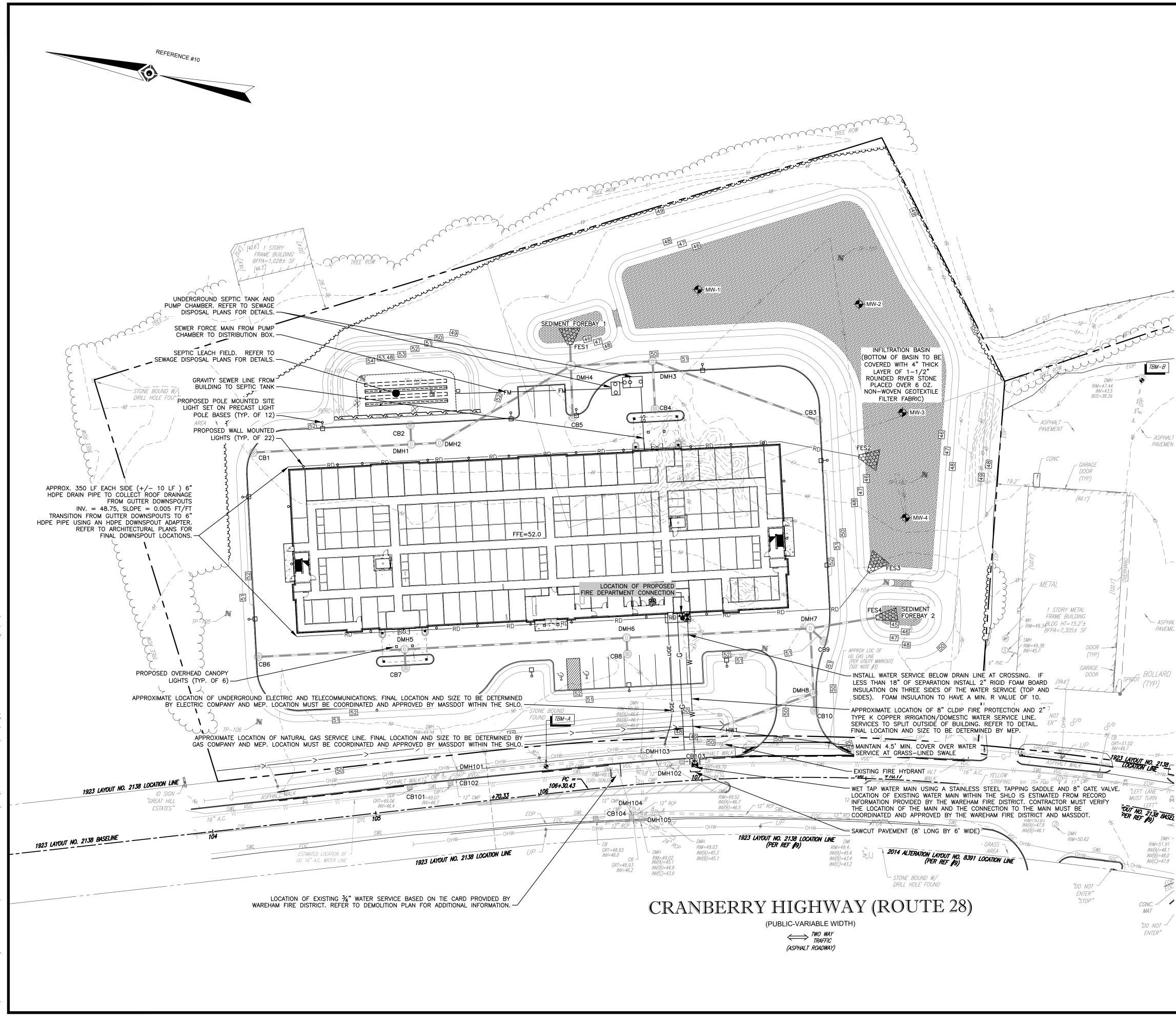
DMH8 RIM = 50.0 INV. IN = 46.3 INV. IN = 46.3 INV. OUT = 46.2 L = 35 LF 12" HDPE (TO DMH7) S = 0.0057 FT /FT

DMH7 (6' ID) RIM = 51.2 INV. IN = 46.0 INV. IN = 46.0 INV. IN = 46.0 INV. OUT = 45.9 L = 38 LF 12" HDPE (TO FES4) S = 0.0053 FT /FT

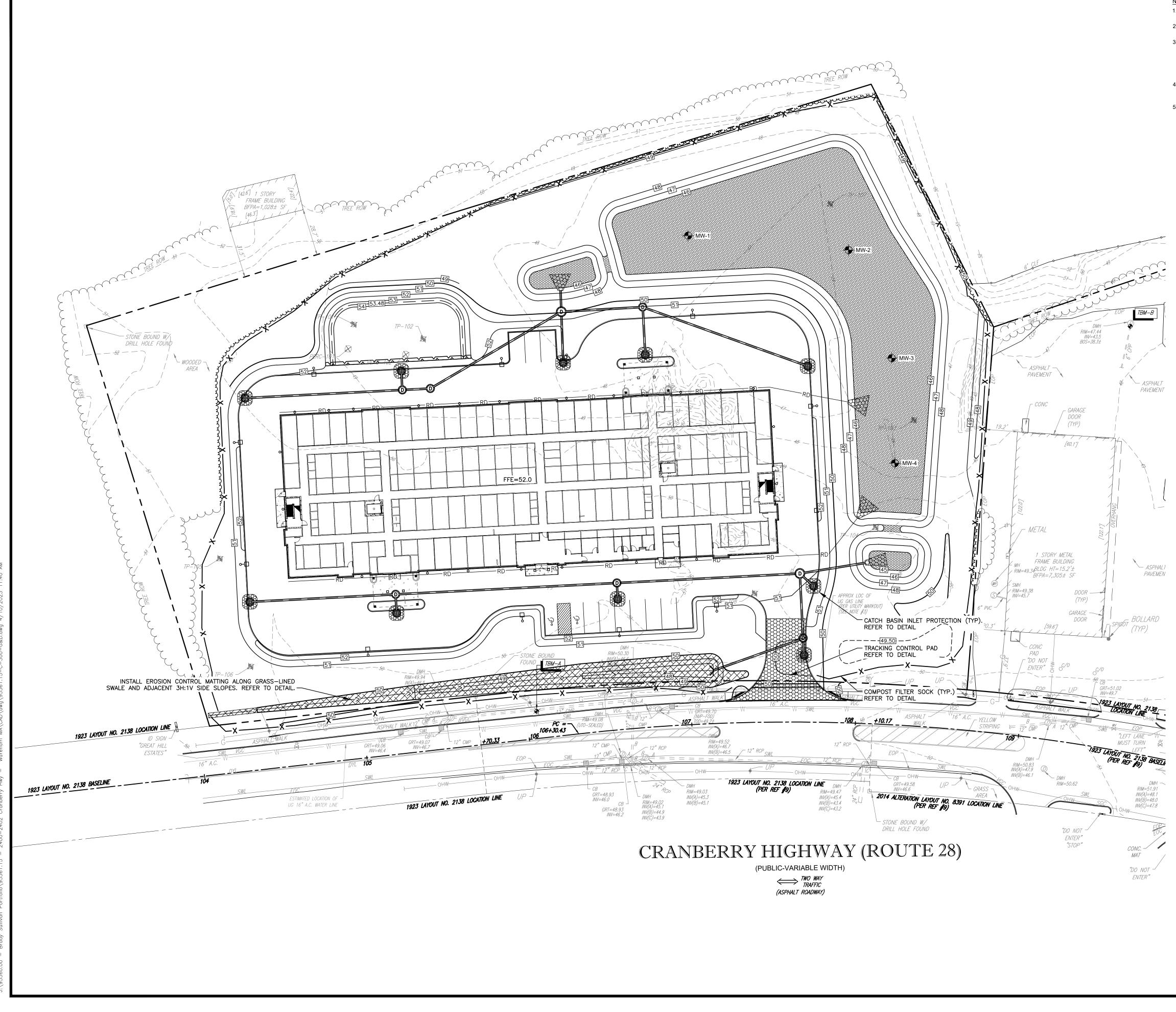
FES4 INV. OUT = 45.7



SHEET **C-3**



	_	DTES:			
	2.	REFER TO SURVEYOR'S PLAN, FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DIGSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION. LOCATIONS AND ELEVATIONS OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE		Nol 585 Mi Lowe T(97	bis Group® ddlesex Street ell, MA 01851 '8) 683-0891
	6.	STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS. THE CONTRACTOR WILL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES WILL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, FIRE ALARM, GAS, WATER, AND SEWER).		Outlook	NOF MASSING
	8. 9.	ALL CONSTRUCTION WILL CONFORM TO THE TOWN STANDARDS AND REGULATIONS, UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION ACTIVITIES WILL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS. THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUBS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO BE NOTIFIED. AS-BUILT PLANS WILL BE SUBMITTED TO TOWN OF WAREHAM AND MASSDOT. CONTRACTOR WILL PLACE 2" WIDE METAL WIRE IMPREGNATED GREEN PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS, SERVICES, AND FORCE MAINS.			CISTERS
	12	 PROPOSED RIM ELEVATIONS OF SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISH GRADE. DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING. SEWER AND WATER INFRASTRUCTURE ON PRIVATE PROPERTY IS TO REMAIN PRIVATE, HOWEVER, THE TOWN RESERVES THE RIGHT TO ENTER THE PROPERTY IN 			ISSUED FOR TRUCTION
ТВМ-В		ORDER TO INSPECT, REPAIR AND/OR TERMINATE INDIVIDUAL SEWER OR WATER SERVICES (AT OWNER'S EXPENSE). CONTRACTOR WILL SET RIMS OF NEW SANITARY SEWER MANHOLES TO EXISTING FINISHED GRADE FOR THE WINTER SEASON. RIMS WILL BE RAISED IN THE SPRING PRIOR TO PLACEMENT OF 1" BITUMINOUS OVERLAY. SERVICE LATERAL LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD BASED ON INPUT FROM TOWN INSPECTOR AND/OR PROJECT CLERK OF			
ASPHALT PAVEMEN.	16	THE WORKS. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.		FA 240 CRANB	STORAGE CILITY 0 & 2402 ERRY HWY ASSACHUSETTS
ASPHAL PAVEME,			<u>5</u> <u>4</u>	04/05/23	RESPONSE TO TOWN COMMENTS RESPONSE TO TOWN COMMENTS RESPONSE TO MASSDOT
BOLLARD (TYP)			3 2 1 NO.	11/09/22 10/26/22 07/18/22 DATE	COMMENTS RESPONSE TO MASSDOT COMMENTS RESPONSE TO MASSDOT COMMENTS DESCRIPTION VISIONS
			(0	30' 60' PHIC SCALE
					APRIL 2022 NO. 95561.15
TURN № LEFT" – 2138 BASEL			DRAV	VN BY:	SM CK
DMH -			CAD I	DRAWING FI	LE:
RIM=51.91 INV(A)=48.1 INV(B)=48.0 INV(C)=47.8				1.15-C-400-U T TITLE	TILTT Luwg
EORC. MAT "DO NOT ENTER"			L	JTILI	ΓΥ PLAN
					HEET
				C)-4





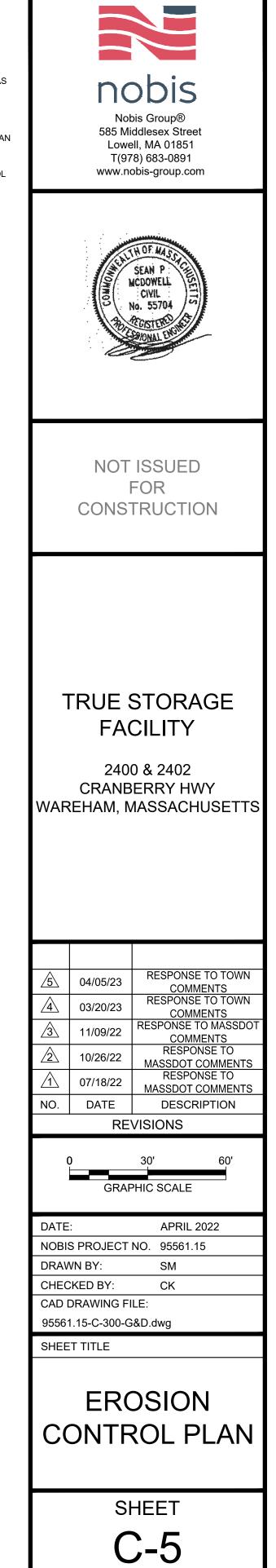
TBM-B

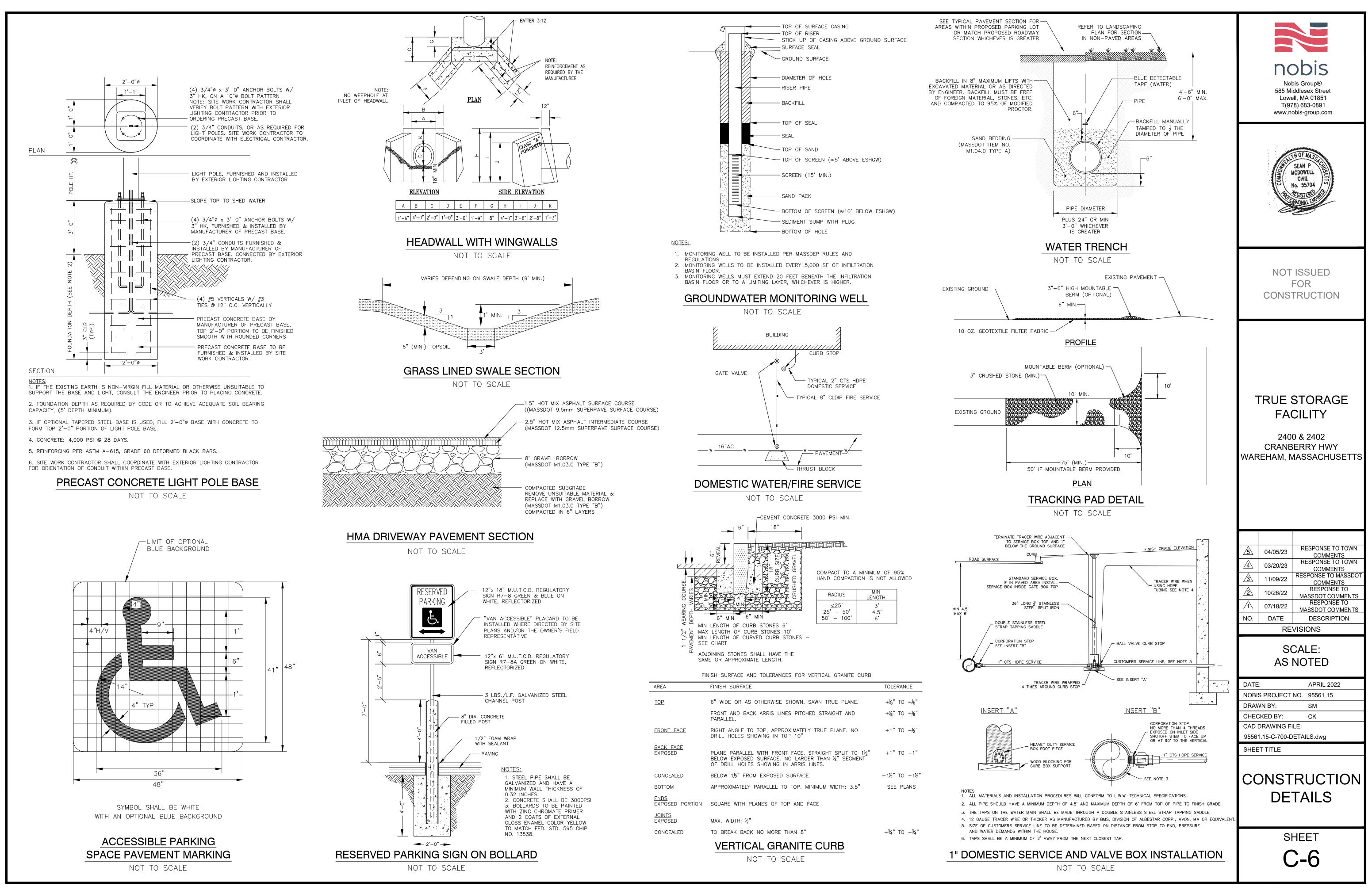
└─ ASPHALT PAVEMENT

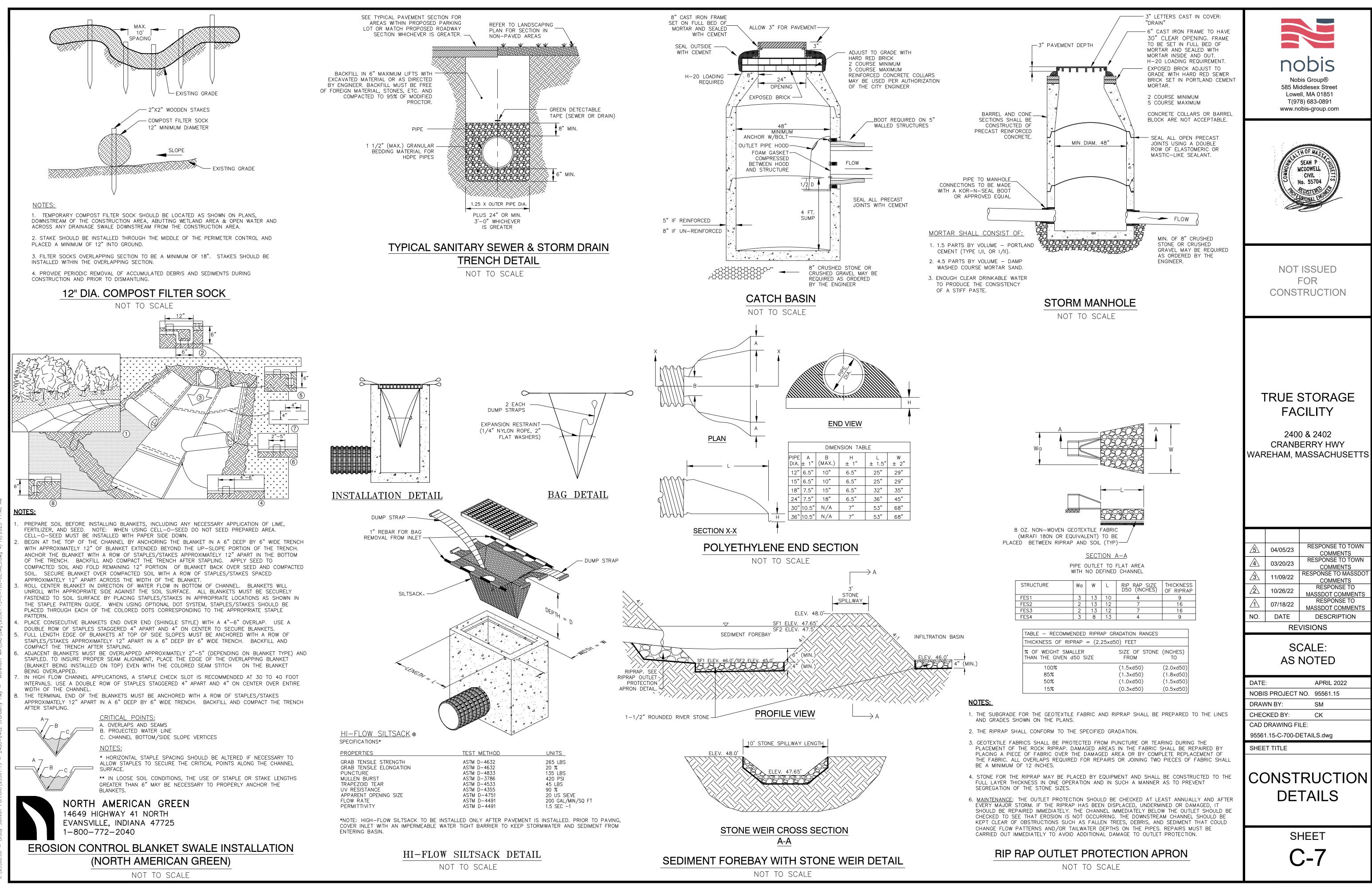
ASPHALI PAVEMEN

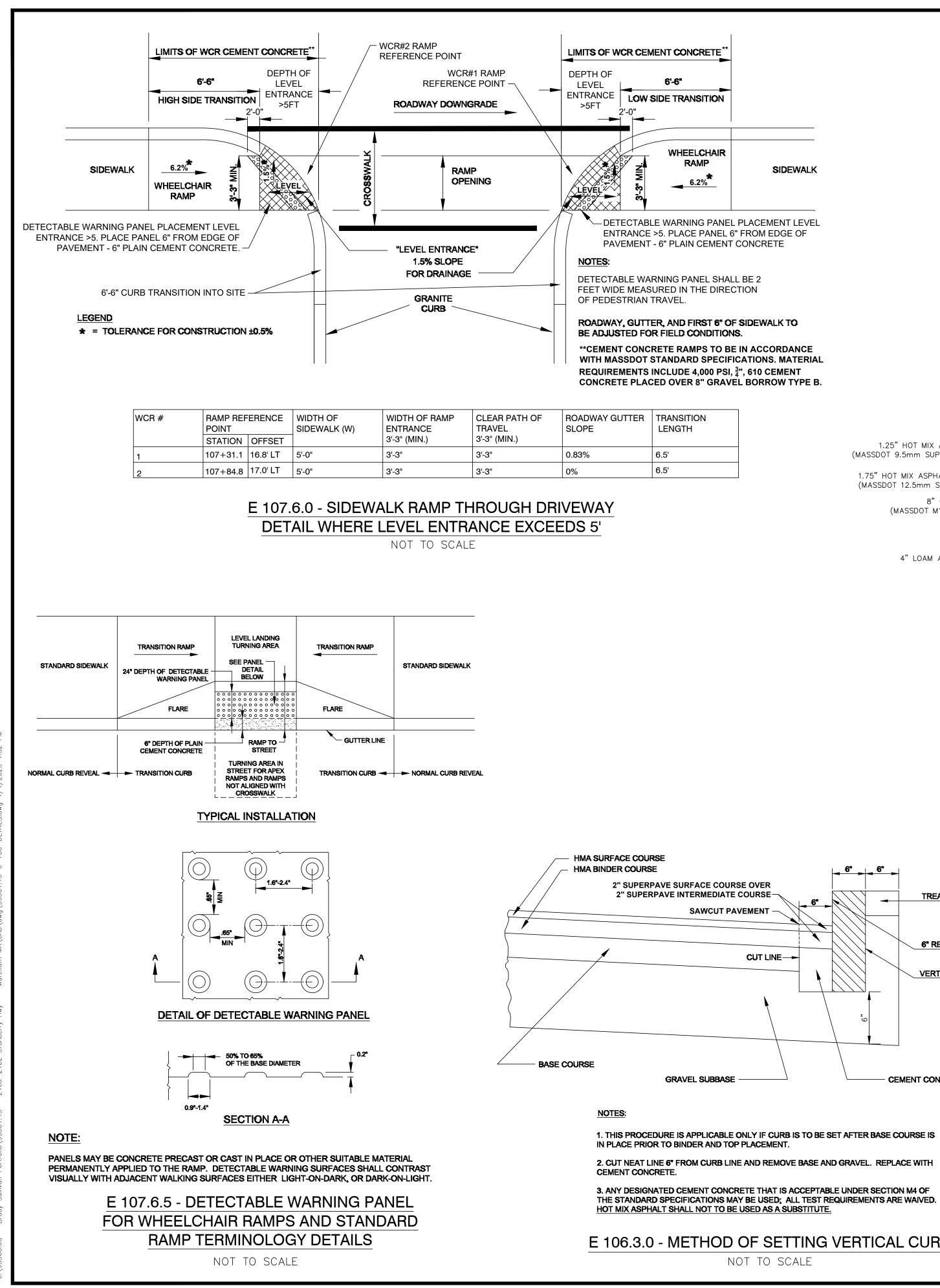
TYP)

- 1. THIS PLAN IS NOT INTENDED TO SHOW PERMANENT DRAINAGE DESIGNS AND TO BE USED FOR TEMPORARY EROSION AND SEDIMENT CONTROL ONLY.
- 2. CONTRACTOR TO GRADE ACTIVE EXCAVATION AREAS TO ALLOW MAXIMUM
- INFILTRATION OF STORMWATER AND MINIMIZE RUNOFF FROM DISTURBED AREAS. 3. DISTURBANCES OF AREAS TO BE MINIMIZED. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR LONGER THAN TWO WEEK DURING THE GROWING SEASON. AREAS WHICH WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE SHALL BE TEMPORARILY SEEDED AND MULCHED. ALL AREAS SHALL BE STABILIZED WITH SEED AND MULCH AND TACKIFIER WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE AND PRIOR TO THE END OF THE GROWING SEASON.
- 4. FOR FURTHER INFORMATION ON BEST MANAGEMENT PRACTICES SEE COMPLETE PLAN SET AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT PREPARED BY NOBIS GROUP.
- 5. REFER TO GENERAL NOTES AND LEGEND SHEET FOR ADDITIONAL EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.









E 106.3.0 - METHOD OF SETTING VERTICAL CURB

VERTICAL CURB - CEMENT CONCRETE LIMITS

TREATMENT VARIES **6" REVEAL EXCEPT ON BRIDGES**

BITUMINOUS SIDEWALK & VERTICAL GRANITE CURB NOT TO SCALE

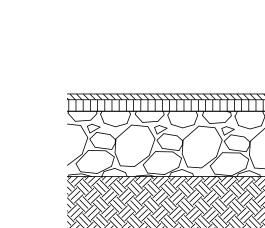
USED AS A SUBSTITUTE.

ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER MASSDOT SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE

USED. ALL TEST REQUIREMENTS ARE WAIVED. HMA SHALL NOT BE

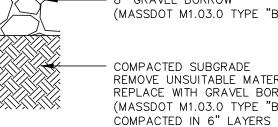
1.75" HOT MIX ASPHALT INTERMEDIATE COURSE -(MASSDOT 12.5mm SUPERPAVE SURFACE COURSE) ROADWAY -8" GRAVEL BORROW -(MASSDOT M1.03.0 TYPE "B") — 6"REVEAL 4" LOAM AND SEED -CURB (MASSDOT TYPE VB) 5' WIDE - CEMENT CONCRETE <u>NOTES:</u> 1. BITUMINOUS SIDEWALK AND VERTICAL GRANITE CURB INSTALLATION TO MEET MASSDOT STANDARD SPECIFICATIONS WITHIN THE MASSDOT SHLO.

(MASSDOT 9.5mm SUPERPAVE SURFACE COURSE)



NOT TO SCALE

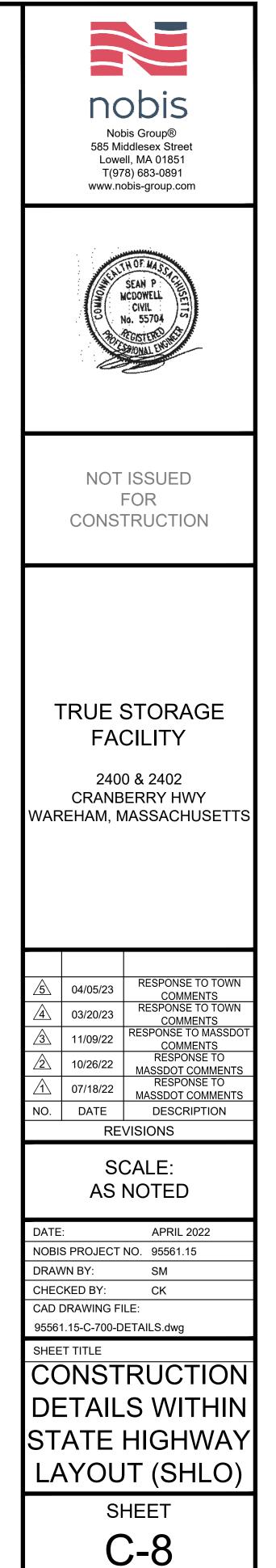
HMA DRIVEWAY PAVEMENT SECTION WITHIN SHLO



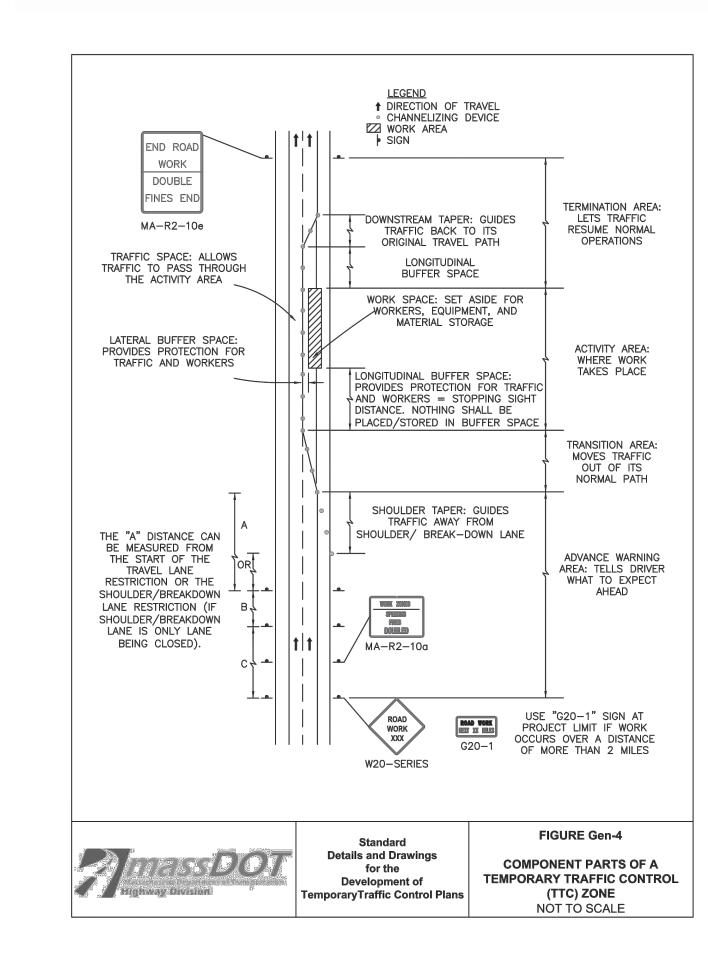
COMPACTED SUBGRADE REMOVE UNSUITABLE MATERIAL & REPLACE WITH GRAVEL BORROW (MASSDOT M1.03.0 TYPE "B")

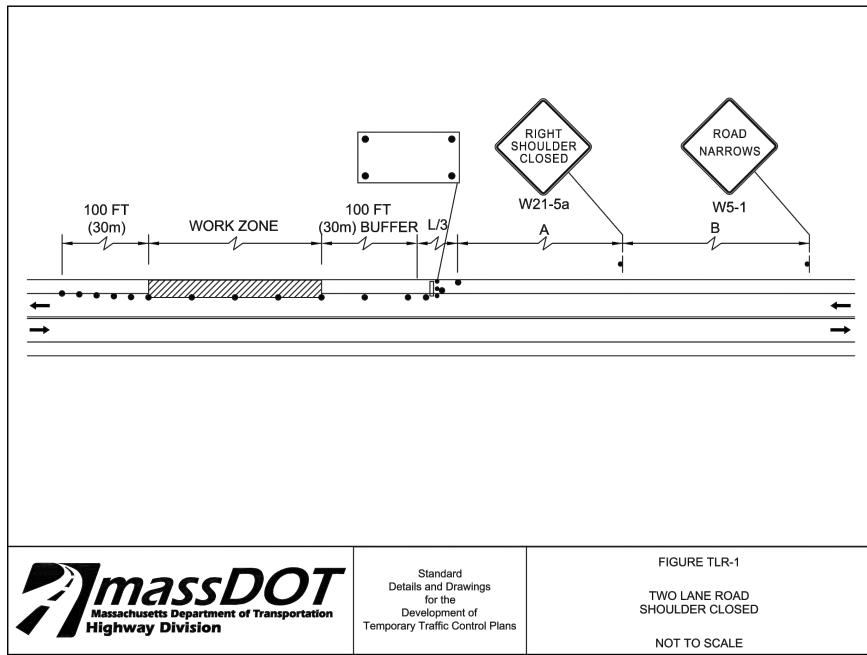
- 8" GRAVEL BORROW (MASSDOT M1.03.0 TYPE "B")

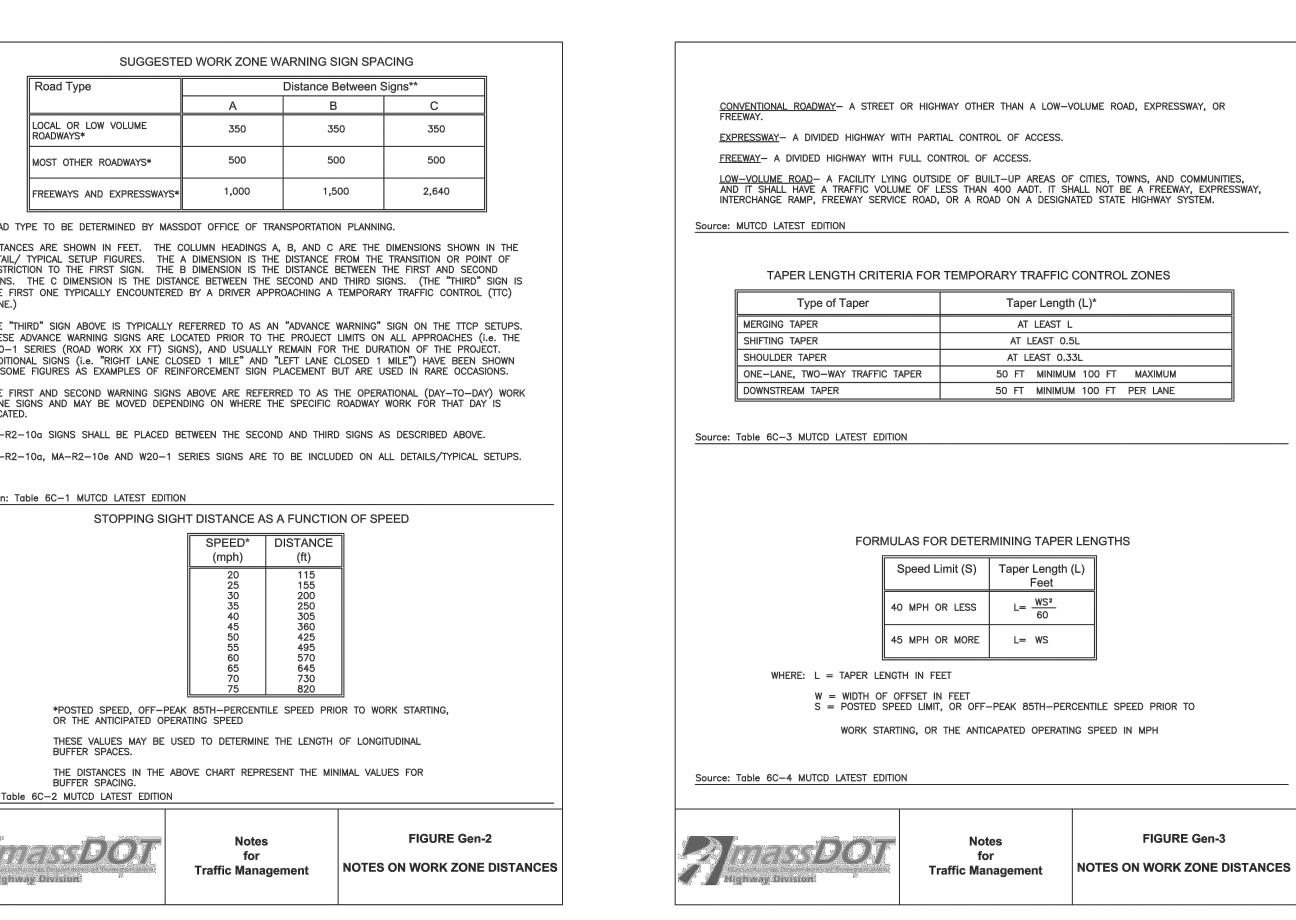
__1.5" HOT MIX ASPHALT SURFACE COURSE (MASSDOT 9.5mm SUPERPAVE SURFACE COURSE) 2.5" HOT MIX ASPHALT INTERMEDIATE COURSE (MASSDOT 12.5mm SUPERPAVE SURFACE COURSE)

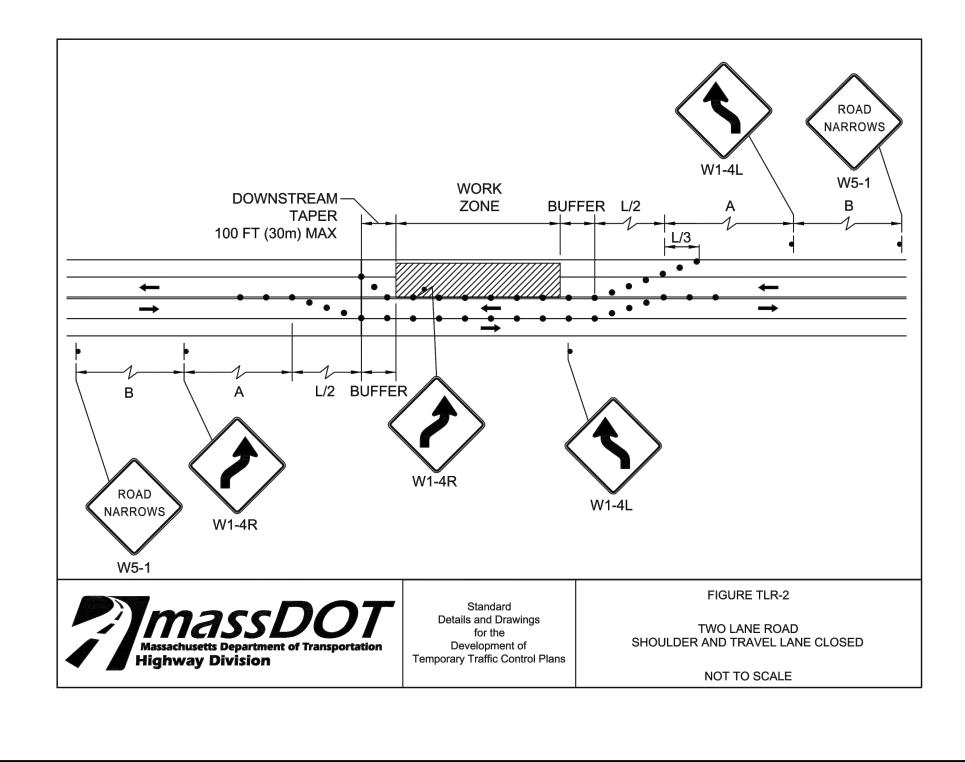


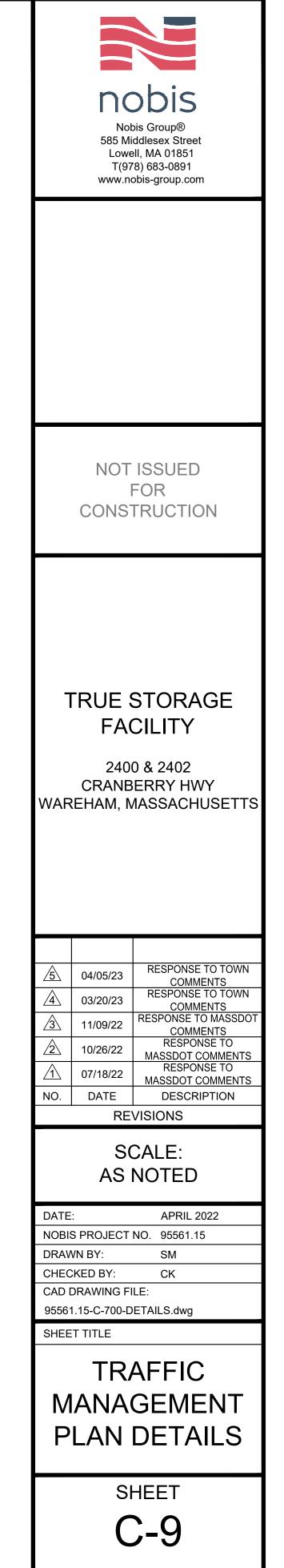
		307	Notes		FIGURE	E Gen-1	
	University, College Statis BY OBTAINING HOURLY T TRAFFIC RECORDER (ATF NUMBER OF LANES MAY	n, Texes (1984) (RAFFIC COUNTS FC 2) COUNT), THIS WI	OR A PARTICULAR I	ROADWAY (WITH A	MINIMUM OF A 48-	-HOUR AUTOMATIC	
	4 Source: Dudek, C., Note	3	4	4,560	1,520		
	4 3	2	4 9	2,960 2,980	1,480 1,490		
	2 5	2	8 8	1,340 2,740	1,340 1,370		
	3	1	7	1,170	1,170		
	NORMAL (existing)	OPEN (to traffic)	Studies	VPH	VPHPL		
	li	of Lanes	Number of	Average	e Capacity		
	MEASURED	AVERAGE WO	RK ZONE CA	PACITIES			
	THE IDEAL CAPACITY OF PER LANE (PCPHPL). I HAVE BEEN SUGGESTED:	N WORK ZONES ON					
	ARROW BOARD		MEDIAN BARRIER				
1	CHANGEABLE MESSAG	JE SIGN	MEDIAN BARRIER		SIGN		
	P/F POLICE/FLAGGER DE	TAL D	IMPACT ATTENUAT		TRAFFIC OR PE		
	OR 36" CONE		DIRECTION OF TR	AFFIC D	TRUCK MOUNTE	D ATTENUATOR	
	REFLECTORIZED PLAS	TIC DRUM PZZ	WORK ZONE	ED	WORK VEHICLE		
12.	ALL SIGNS SHALL BE MOUN	TED ON THEIR OWN	STANDARD SIGN SUP	PORTS.			
	MINIMUM LANE WIDTH IS TO CHANNELIZING DEVICE OR B	ARRIER.			WIDTH TO BE MEASUR	RED FROM THE EDGE OF	
	MAXIMUM SPACING OF TRAFF						
9.	DISTANCES ARE A GUIDE AN	D MAY BE ADJUSTED	IN THE FIELD BY T	THE ENGINEER.			
8.	THE ADVISORY SPEED LIMIT,	IF REQUIRED, SHALL	BE DETERMINED B	Y THE ENGINEER.			
7.	THE FIRST TEN PLASTIC DR			ITH TYPE A SEQUE	NTIAL FLASHING LIGHT	5.	
6.	CONTRACTORS SHALL NOTIFY THE TEMPORARY CLOSURE O PAVEMENT PLACEMENT AND	OF ACCESS, SUCH AS	S CONDUIT INSTALLAT				
	MUST PASS THE CRITERIA S EVALUATION OF HIGHWAY FE	ET FORTH IN NCHRP	REPORT 350, "REC	OWNENDED PROCED	URES FOR THE SAFE		
5.	REMOVED FROM THE HIGHWA					AND CRASH ATTENUATORS	
	WORK. TEMPORARY CONSTRUCTION					L DEVICES SHALL BE	
	TEMPORARY CONSTRUCTION					TO THE START OF ANY	
2.	ALL SIGN LEGENDS, BORDER				TCD.		
1.	ALL TEMPORARY TRAFFIC CO				THE "MANUAL ON UN	IFORM TRAFFIC CONTROL	
	C.						

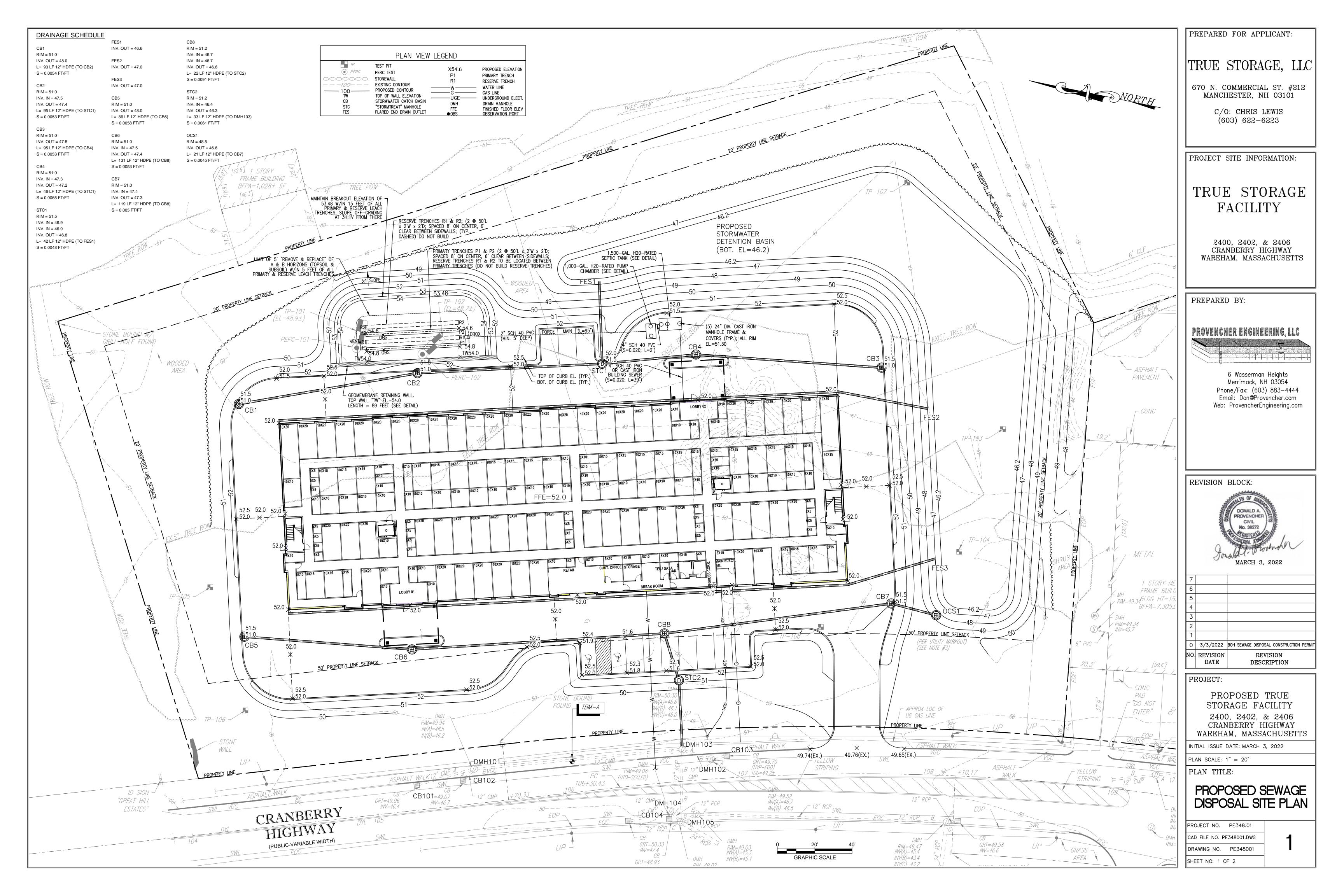


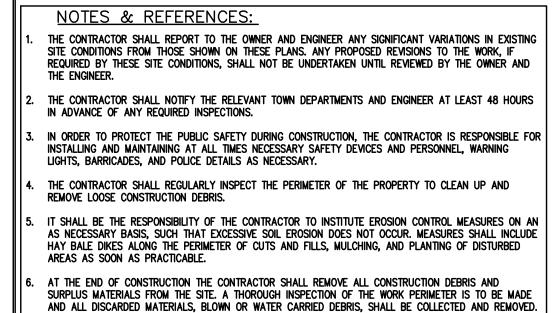




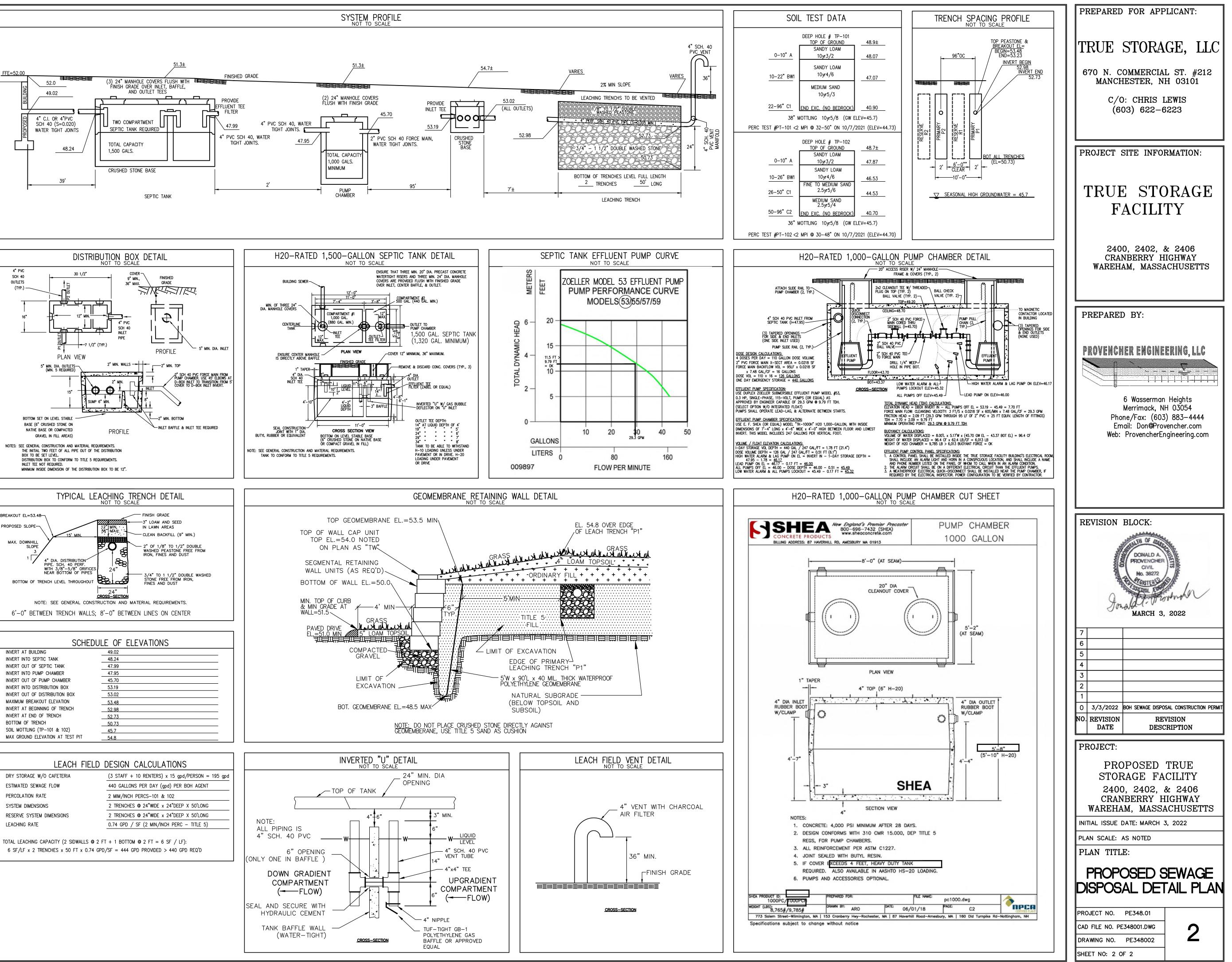


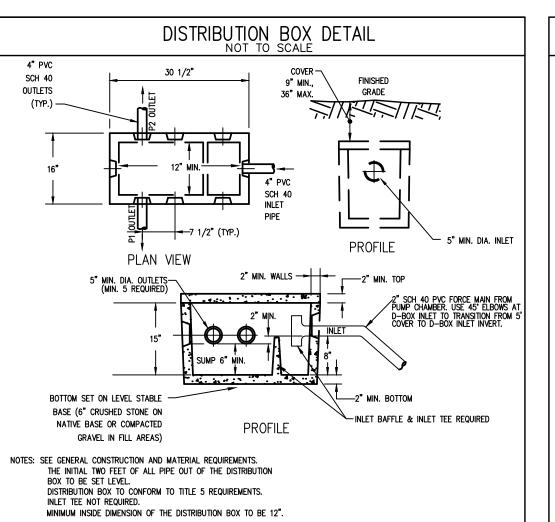


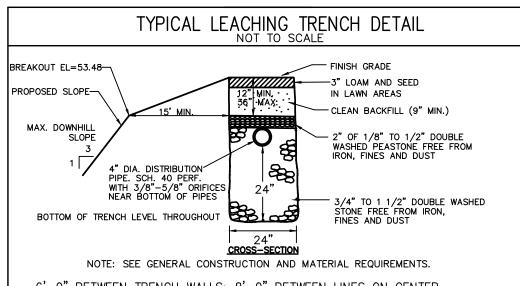




- AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF ALL DRAIN CONDUITS IF THESE STRUCTURES HAVE BEEN IMPACTED BY SILT.
- THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES, BY THE SITE ENGINEER, OR MUNICIPAL DEPARTMENTS. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR IS TO CONTACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 1-800-322-4844.
- THE CONTRACTOR IS TO VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE PROPOSED WORK POSES A CONFLICT WITH THE EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
- ALL DISTURBED AREAS ARE TO BE LOAMED AND SEEDED WITH A MINIMUM OF 4" OF TOP SOIL SPREAD EVENLY THROUGHOUT. PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PROVIDE SLOPE STABILITY UNTIL VEGETATION IS ESTABLISHED.
- ALL STUMPS, "A" HORIZONS (TOP SOIL), "B" HORIZONS (SUB SOIL), AND OTHER DELETERIOUS MATERIALS ARE TO BE REMOVED FROM THE PROPOSED SEPTIC SYSTEM AREA, AND FOR A DISTANCE OF 5 FEET IN ALL DIRECTIONS THEREFROM AS SHOWN ON THE PLAN.
- 2. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO MASS. DEP TITLE 5 REGULATIONS, AND TO BOARD OF HEALTH REGULATIONS.
- . TIGHT JOINT PIPING TO CONSIST OF POLYVINYL CHLORIDE (PVC) SCHEDULE 40, UNLESS OTHERWISE NOTED. EXISTING CONDITIONS SITE DETAIL, TOPOGRAPHY, WETLANDS BOUNDARY, AND PROPERTY LINE OBTAINED FROM NOBIS ENGINEERING, INC., DBA NOBIS GROUP,
- ANY ALTERATIONS TO THE DESIGN FROM THAT SHOWN ON THE PLAN MUST BE APPROVED BY PROVENCHER ENGINEERING AND BY THE BOARD OF HEALTH.
- . THE BOARD OF HEALTH SHALL REQUIRE AN AS-BUILT PLAN OF ALL CONSTRUCTION BY THE DESIGN ENGINEER. AND REQUIRE SUCH PERSON TO CERTIFY IN WRITING THAT ALL WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE TERMS OF THE PERMIT AND THE APPROVED PLANS.
- PROVISIONS FOR A GARBAGE GRINDER HAVE NOT BEEN INCLUDED IN THE DESIGN OF THE LEACHING FIELD. GARBAGE GRINDERS ARE PROHIBITED.
- . THERE ARE NO ACTIVE POTABLE WELLS WITHIN 200' OF THE LEACHING FACILITY SHOWN ON THIS PLAN.
- EXISTING SITE CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR AND DISCREPANCIES MUST BE REPORTED TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- 20. CERTIFICATION OF THE SYSTEM BY THE INSTALLER MAY BE REQUIRED. THE INSTALLER MUST CONFIRM WITH THE BOARD OF HEALTH IF AN INSTALLERS PERMIT AND LICENSE IS REQUIRED WITH THE TOWN PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- VEHICULAR TRAFFIC, PARKING OF VEHICLES, STOCKPILING OF MATERIALS AND STORAGE OF EQUIPMENT OVER THE LEACHING FIELD IS PROHIBITED AT ALL TIMES.
- 22. SYSTEM COMPONENTS ARE NOT TO BE BACKFILLED OR CONCEALED WITHOUT INSPECTION BY AND PERMISSION OF THE BOARD OF HEALTH AND DESIGN ENGINEER.
- THERE ARE NO INLAND BANKS, WETLANDS, BORDERING SURFACE WATER SUPPLIES OR THEIR TRIBUTARIES, OPEN SURFACE OR SUBSURFACE DRAINS INTERCEPTING HIGH GROUNDWATER, VERNAL POOLS, LEACHING CATCH BASINS, DRYWELLS, OTHER OPEN SURFACE OR SUBSURFACE DRAINS, REGULATED FLOODWAYS, OF 100-YEAR FLOOD BOUNDARIES WITHIN 100 FEET OF THE LEACHING AREA OTHER THAN THOSE SHOWN ON THE PLAN.
- 24. THERE ARE NO SURFACE WATERS WITHIN 500 FEET OF THE LEACHING AREA SHOWN ON THIS PLAN
- SUBMITTALS SHALL BE PROVIDED TO THE DESIGN ENGINEER BY THE CONTRACTOR, INCLUDING PROPOSED PIPE, VALVES, DBOX, SEPTIC TANK, PUMP CHAMBER, EFFLUENT PUMPS, CONTROL PANEL, ALARM SYSTEM, LEVEL CONTROLS, FLOAT RACKS, SLIDE RAILS, QUICK DISCONNECTS, PULL CHAIN, MANHOL FRAME AND COVERS. ACCESS RISERS. GEOMEMBRANE, RETAINING WALL BLOCK UNITS, EFFLUENT TEE FILTER. TITLE 5 FILL GRAIN SIZE DISTRIBUTION ANALYSIS FOR THE TITLE 5 FILL PROPOSED TO BE USED, AND OTHER EQUIPMENT AND MATERIAL ASSOCIATED WITH THE SEPTIC SYSTEM CONSTRUCTION.
- 26. IF ANY EQUIPMENT OR MATERIAL IS USED W/O APPROVAL OF SUBMITTALS FOR THAT EQUIPMENT OR MATERIAL, THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF THAT EQUIPMENT OR MATERIAL IF IT IS SUBSEQUENTLY FOUND TO NOT BE COMPLIANT WITH THE DESIGN PLAN OR TITLE 5 REGULATIONS.
- GENERAL CONSTRUCTION AND MATERIAL REQUIREMENTS: TITLE 5 FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOIL MATERIAL, CONSISTING OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE used. Title 5 fill shall be graded such that no material shall be larger than 2 inches and 45% BY WEIGHT OF THE SAMPLE SHALL BE RETAINED ON THE #4 SIEVE. OF THE FRACTION OF THE SAMPLE PASSING THE #4 SIEVE, 10% TO 100% SHALL PASS THE #50 SIEVE, 0% TO 20% SHALL PASS THE #100 SIEVE, AND 0% TO 5% SHALL PASS THE #200 SIEVE.
- A MINIMUM OF ONE REPRESENTATIVE FILL SAMPLE SHALL BE TAKEN PER PIT PER REMOVAL DAY AND TESTED FOR COMPLIANCE WITH THE GRAIN SIZE DISTRIBUTION SPECIFICATION ABOVE.
- WHERE FILL IS REQUIRED TO REPLACE UNSUITABLE OR IMPERMEABLE SOILS, THE EXCAVATION OF THE UNSUITABLE MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM OR TO THE DELINEATED BOUNDARY AS INDICATED ON THE PLANS AS "REMOVE AND REPLACE" TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL AS REQUIRED BY 310 CMR 15.240 (SOIL ABSORPTION SYSTEMS) AND REPLACED WITH FILL MATERIAL MEETING THE SPECIFICATIONS OF 310 CMR 15.255(3).
- PRIOR TO PLACEMENT OF TITLE 5 FILL, WHICH SHALL BE STOCKPILED AT THE EDGE OF THE EXCAVATION AND FILLED IN GRADUALLY, THE BOTTOM SURFACE OF THE EXCAVATION SHALL BE SCARIFIED AND RELATIVELY DRY. FILL SHALL NOT BE PLACED DURING RAIN OR SNOW STORMS. IF PONDED STANDING WATER IS ABOVE THE ELEVATION OF THE BOTTOM OF THE EXCAVATION, THE EXCAVATION SHALL BE DEWATERED AS NECESSARY.
- THE BOTTOM OF EACH LEACHING TRENCH SHALL BE EXCAVATED TO A LEVEL GRADE. IF THE REMOVAL OF STONES OR BOULDERS IS REQUIRED, CREATING LOCALIZED DEPRESSIONS, FILLING TO GRADE WITH THE EXCAVATED SOIL IS ACCEPTABLE.
- THE SOIL PLACED AS BACKFILL OVER THE SYSTEM SHALL BE A MINIMUM OF 12 INCHES, INCLUDING TOPSOIL, PLACED IN LIFTS AND SUFFICIENTLY COMPACTED TO PREVENT DEPRESSIONS DUE TO SETTLING WHICH MAY INTERCEPT OR COLLECT SURFACE WATER RUNOFF ABOVE THE SYSTEM.
- BACKFILL ABOVE THE LEACHING TRENCHES MUST BE CLEAN AND FREE OF STONES AND BOULDERS GREATER THAN SIX INCHES IN SIZE. TAILINGS, CLAY OR SIMILAR MATERIALS ARE PROHIBITED.
- FINAL COVER ABOVE THE SYSTEM SHALL BE GRADED TO REDUCE INFILTRATION OF SURFACE WATER AND MINIMIZE EROSION. FINISH GRADE SHALL HAVE A MINIMUM SLOPE OF 0.02 FEET PER FOOT AND RUNOFF SHALL BE DIRECTED AWAY FROM THE SAS.
- ALL COMPONENTS SHALL BE INSTALLED AT THE ELEVATIONS AND LOCATIONS INDICATED ON THE PLANS. ANY CHANGES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE, THE BOARD OF HEALTH, AND THE DESIGN ENGINEER.
- EXCAVATION FOR CONSTRUCTION OF A SOIL ABSORPTION SYSTEM MAY BE BY MECHANICAL MEANS, PROVIDED CARE IS TAKEN TO ASSURE THAT THE SOIL AT THE BOTTOM OF THE EXCAVATION IS NOT COMPACTED OR SMEARED. THE BOTTOM AND SIDES OF THE EXCAVATION SHALL BE LEVEL AND SCARIFIED.
- VEHICULAR TRAFFIC AND PARKING OF VEHICLES OR EQUIPMENT IN OR ON THE AREA OF THE SOIL ABSORPTION SYSTEM IS STRICTLY PROHIBITED DURING AND AFTER CONSTRUCTION. FROM THE DATE OF TH INSTALLATION OF THE SOIL ABSORPTION SYSTEM UNTIL COMPLETION OF CONSTRUCTION, THE PERIMETER OF THE SOIL ABSORPTION SYSTEM SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF SUCH AREA FOR ALL ACTIVITIES WHICH MIGHT DAMAGE THE SOIL ABSORPTION SYSTEM. SUCH FLAGGING IS NOT INTENDED TO PRECLUDE THE FINAL GRADING AND LANDSCAPING OF THE AREA OF THE SOIL ABSORPTION SYSTEM. STOCKPILING OF MATERIALS WITHIN THE AREA IS PROHIBITED.
- CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM SHALL CONFORM TO TITLE 5 AND TO THE BOARD OF HEALTH REQUIREMENTS. 3/4" TO 1-1/2" STONE AGGREGATE IS REQUIRED FOR THE INSTALLATION OF THIS SOIL ABSORPTION SYSTEM FROM THE CROWN OF THE DISTRIBUTION PIPES TO THE BOTTOM OF THE SOIL ABSORPTION SYSTEM. ALL STONE AGGREGATE MUST BE DOUBLE WASHED AND FREE OF FINES AND DUST.
- 3. 2" OF PEASTONE SHALL BE PLACED ON TOP OF THE CROWN OF THE INLET PIPES ABOVE THE 3/4" TO 1-1/2" CRUSHED STONE. PEASTONE SHALL BE 1/8"-1/2" STONE. EACH LEACHING TRENCH SHALL INCLUDE AN INSPECTION (OBSERVATION) PORT CONSISTING OF A VERTICAL PERFORATED 4-INCH PVC PIPE DOWN THROUGH THE STONE TO THE BOTTOM OF THE TRENCH. THE PORT SHALL BE CAPPED WITH A SCREW-TYPE CAP WITHIN 3 INCHES OF FINISHED GRADE ELEVATION, AND NOTED ON THE FINAL AS-BUILT PLAN.







SCHEDU	LE OF ELEVATIONS
INVERT AT BUILDING	49.02
INVERT INTO SEPTIC TANK	48.24
INVERT OUT OF SEPTIC TANK	47.99
INVERT INTO PUMP CHAMBER	47.95
INVERT OUT OF PUMP CHAMBER	45.70
INVERT INTO DISTRIBUTION BOX	53.19
INVERT OUT OF DISTRIBUTION BOX	53.02
MAXIMUM BREAKOUT ELEVATION	53.48
INVERT AT BEGINNING OF TRENCH	52.98
INVERT AT END OF TRENCH	52.73
BOTTOM OF TRENCH	50.73
SOIL MOTTLING (TP-101 & 102)	45.7
MAX GROUND ELEVATION AT TEST PIT	54.8

LEACH FIELD I	DESIGN CALCULATIONS
DRY STORAGE W/O CAFETERIA	(3 STAFF + 10 RENTERS) x 15 gpd/PERSON = 195 gpd
ESTIMATED SEWAGE FLOW	440 GALLONS PER DAY (gpd) PER BOH AGENT
PERCOLATION RATE	2 MIM/INCH PERCS-101 & 102
SYSTEM DIMENSIONS	2 TRENCHES @ 24"WIDE x 24"DEEP X 50'LONG
RESERVE SYSTEM DIMENSIONS	2 TRENCHES @ 24"WIDE x 24"DEEP X 50'LONG
LEACHING RATE	0.74 GPD / SF (2 MIN/INCH PERC - TITLE 5)
TOTAL LEACHING CAPACITY (2 SIDWALLS @ 2 FT 6 SF/LF x 2 TRENCHES x 50 FT x 0.74 GPD,	, ,

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	MOUNTI
1	ю	(1) 2- 3000K LED Modules	6"29w LED Direct/Indirect Cylinder	ELECTRONIC	WALL	PROGRESS, P5642-3130K	120V 1P 2W	8'-0"
CNY		(108),	Contractor Select CNY LED Canopy P0=3,500lm	ELECTRONIC	CEILING	Lithonia Lighting, CNY LED PO 40K MVOLT	120V 1P 2W	SEE DRAW
ECF	⊶□	(1) (2) LEDGINE SLD LIGHT ARRAY(S) DRIVEN AT 1200mA	EcoForm Area LED ECF — Small, 32 LED's, 4000K CCT, TYPE AFR OPTIC, No Shield	ELECTRONIC	POLE	SIGNIFY GARDCO, ECF-S-32L-1.2A-NW-G2-AFR	120V 1P 2W	18'-0"
ECF-B	⊶□	(1) (2) LEDGINE SLD LIGHT ARRAY(S) DRIVEN AT 1200mA	EcoForm Area LED ECF — Small, 32 LED's, 5000K CCT, TYPE BLC OPTIC,	ELECTRONIC	POLE	PHILIPS GARDCO, ECF-S-32L-1.2A-CW-G2-BLC	120V 1P 2W	18'-0"

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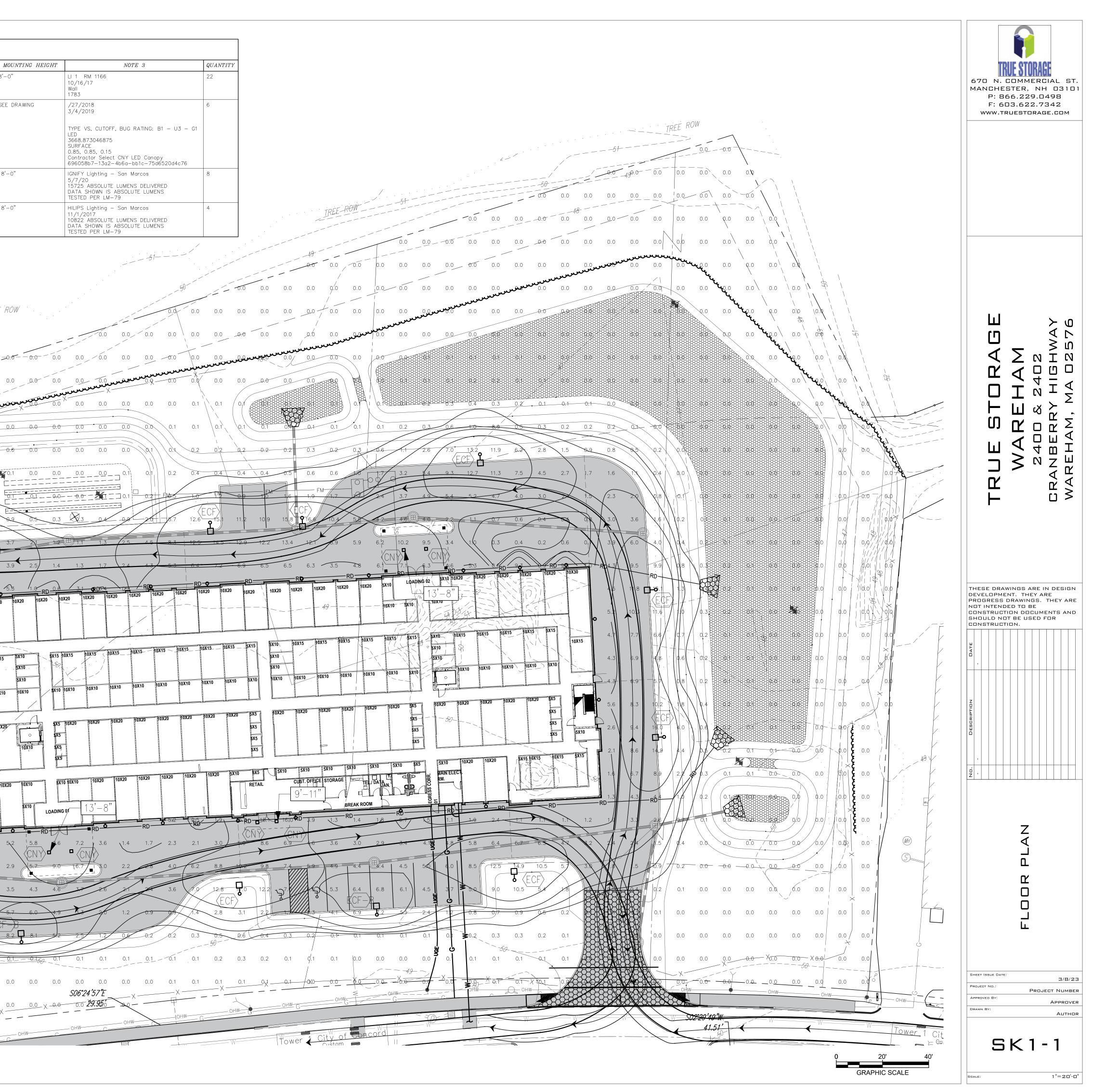
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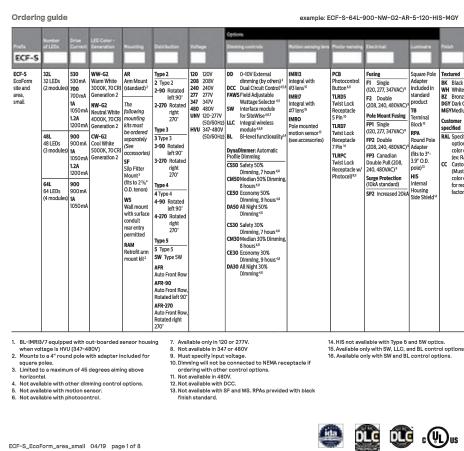
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			× '\	0.0	0.0	\ \/	0.0	0.1	7.8	¥.\$	3.0	5X15	10X15	10X15 5X	15 11	0X20
				<i>p</i> .0	0.0	0.0	0.0	0.1		5.6	3.0					0
					0.0	0.0	0.0	0.1	E.O	#18		2.0		0.6	- 1.2	52





CONTRACTOR SELECT CNY LED	
C	Site & Area
G GARDCO	EcoForm
by ©ignify	ECF-S small area light
profile LED luminaire, EcoForm offers a features an innovative retrofit arm kit, eliminating the need to drill additional h	26,400 lumens or more in a compact, low a new level of customer value. EcoForm simplifying site conversions to LED by noles in most existing poles. Integral nergy savings. Includes Service Tag, our

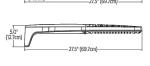
CNYBCP 14 Inch x 14 Inch Beauty Cover Plate



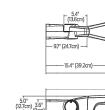
ECF-S EcoForm small Area luminaire

Dimensions Standard Arm (AR) Weight: 22 Lbs (9.9 Kg) EPA: 0.21ft² (.019m²)

ECF-S_EcoForm_area_small 04/19 page1of8







Weight: 27 Lbs (12.2 Kg) EPA: 0.33ft2 (.031m2)

Slip fitter (SF)

Wall (WS)

Weight: 27 Lbs. (12. 2Kg)EPA: 0.27ft² (.025m²)

6.5" (16.5cm)

_____ 29.3" (74.5cm) ______

- 37.2" (94.4cm) -----

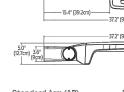
Retrofit Arm (RAM)

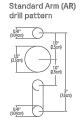
(10<u>41°</u>

(25cm) (25cm)

0.41* (1.04cm)

drill pattern

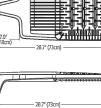




Outboard IMR-HVU sensor

A

Retrofit Arm (RAM) Weight: 24 Lbs (10.9 Kg) EPA: 0.24ft² (.022m²)







ECF-S_EcoForm_area_small 04/19 page 5 of 8







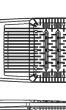


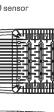






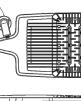


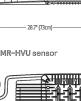


















1 c	10.	

Specifications	Dimensions
INTENDED USE: CNV LED canopy luminaires are ideal for surface mount applications such as canopies over building entrances, walkways, loading docks and covered parking areas. The product's traditional style does not detract from current building aesthetics, creating a seamless upgrade. These products are ideal energy efficient replacements of existing surface-mount products; from compact fluorescent to 250W metal halide.	CNY LED P1/P2 Width: 10" Height 4 11/16" Depth: 10" Weight: 6.5lbs
CONSTRUCTION: CNY LED canopy luminaires have a cast-aluminum housing with a polyester powder coat finish for lasting durability. Tanslucent polycarbonate lens is designed for uniform light. distribution while providing visually comfortable illumination. The lens is sealed to the housing with a one-piece gasket to prevent the entrance of insects or external contaminants. Available in two sizes: 10° x 10° (P1, P2).	
ELECTRICAL: The CNY LED canopy luminaires use an array of LED's on a metal core circuit board, creating a dispersed light source which reduces surface brightness. High-efficiency LEDs maintain 70% of light output at 50,000 hours of service life (120/50,000 hours). A Correlated Color Temperature (CCI) of 4000K matches that of metal halide for seamless upgrade. CNY LED canopy luminaires use MVOLT (120-277V) electronic driver that is 0-10V, capable of continuous dimming and ensure system power factor >90% and THD <20%. CNY is CRI 80.	All dimensions are inches (centimeters) unless otherwise indicated.
INSTALLATION The CNY LED canopy luminaires feature a quick-mount mechanism that makes mounting to a recessed junction box both quick and trouble-free. Luminaire leads exit the back of the casting through a water tight connector. The quick-mount mechanism allows the electrical connections to be made and the luminaire fastened in place without the need for disassembling the luminaire. Three ¾' NPT conduit entry points allow surface-conduit wiring. The luminaires can be also be pendant mounted with ¾ NPT pendant stems (provided by others).	
LISTINGS: UL Listed to U.S. and Canadian safety standards for wet locations. Tested in accordance with IESNA LM.79 and LM-80 standards. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified. Please check the DLC Qualified Products List a <u>www.designlights.</u> arg(QPL to confirm which versions are qualified. Can be used to comply with California Title	

CONTRACTOR

24 Part 6 High Efficacy LED light Source Requirements. WARRANTY: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitvbrands.com/support/warrantv/terms-and-conditions Note: Actual performance may differ as a result of end-user environment and application All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

One Lithonia Way, Conyers, GA 30012 | 1-800-705-SERV (7378) | www.lithonia.com © 2018-2022 Acuity Brands Lighting, Inc. All rights reserved. Rev. 05/04/22

ECF-S EcoForm small

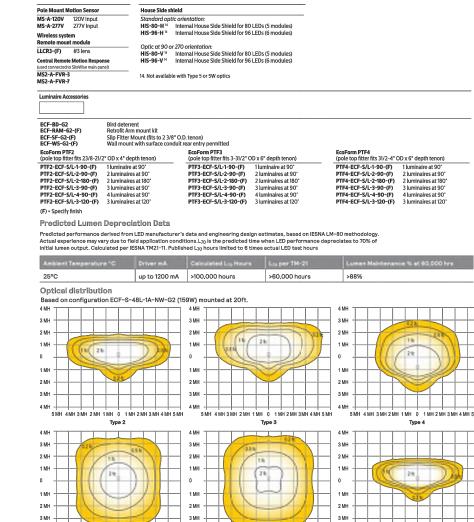
EcoForm Accessories (ordered separately, field installed)

Shielding Accessories

Area luminaire



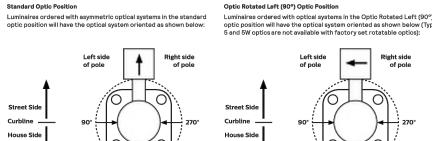
example: ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY 14. HIS not available with Type 5 and 5W optics. 15. Available only with SW, LLC, and BL control options 16. Available only with SW and BL control options.



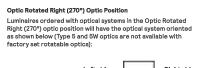
ECF-S EcoForm small

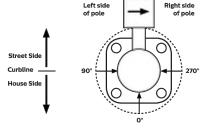
Area luminaire

Optical Orientation Information



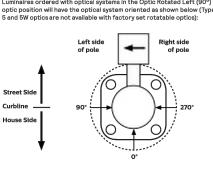
Note: The hand hole will normally be located on the pole at the 0° point.





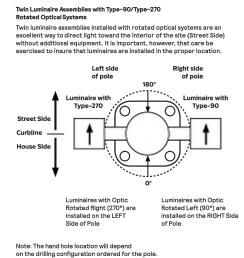
Note: The hand hole will normally be located on the pole at the 0° point.

ECF-S_EcoForm_area_small 04/19 page 6 of 8



5 MH 4 MH 3 MH 2 MH 1 MH 0 1 MH 2 MH 3 MH 4 MH 5 MH

Note: The hand hole will normally be located on the pole at the 0° point.



PROGRESS **LIGHTING**[™]

Cylinder

Description:

Specifications:

6 in of wire supplied

Performance:

Number of Modules

Input Voltige

Input Frequency

Lumens/LPR (Down-Source

Lumens/LPW (Up-Source)

(umens/LPR (Delivered)

Max. Operating Temp

Input Power

Life (hours) EMI, RFI

Warranty

Labels

Black finish.

0_____0

CONTRACTOR SELECT CNY LED

Project: Fixture Type: Location: Contact: Wall Mounted - Damp Location Listed PROGRESS LED P5642-31/30K 6" uplight/downlight wall cylinders are ideal for a wide variety of interior and exterior applications including residential and commercial. The alumi-num Cylinders offers a contemporary design with its sleek cylindrical form and elegant fade and chip resistant Black finish, perfect for today's inspired exteriors. With over 2,150 lumens both up and down the LEO Qinders unite performance, energy savings and safety benefits. Provides even illumination up and down. Specify P860046 top cover lens for use in wet locations. Powder coast finish. Die-cast aluminum construction with durable powder coated finish a,150 lumens 30 lumens/watt per module (delivered) 3000K color temperature, 90+ CRI Meets California Title 24 high efficacy requirements for outdoor use only. Dirmable to 10% with may EUX dimmers Dirmable to 10% with may EUX dimmers Dirmable to 10% brightness (See Dimming Notes) Back plate covers a standard 4ª recessed outlet box: 4.5 in W, 4.5 in ht., 2.94 in depth Mounting strap for outlet box included Dimensions: 29 W Width: 6 in Height: 18 in Depth: 8-7/8 in 60 Hz

H/CTR: 8 in

www.progresslighting.com

Rev. 07/20

ECF-S EcoForm small Area luminaire

701 Millennium Blvd. Greenville, South Carolina 29607

1262/44 (UM-82) per module

1300/44 (LM-82) per module

FCC Title 47, Part 15, Class 8

cCSAus Damp Location Listed

2,190/30 (LMI 79)

90.08

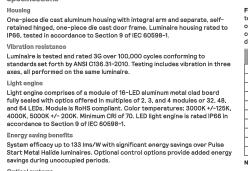
60000 (L70/TM-21)

30 °C 5-year Limited Warranty

			LED		Type 2			Type 3			Type 4		
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
10-5-11:50 WW 62-1	12	500	3000	96	6.08	10-00-01	- 10	6.044	81-00-52	109	6.323	81-00-62	
CF-S-32L-700-WW-G2-x	32	700	3000	73	7,968	B2-U0-G2	109	7,795	B1-U0-G2	107	8,156	B1-U0-G2	112
ID-S-IB-WWW-Gen	12	1050	3000	106	P.26	82-00-62	106	10.514	82.00.62	104	8,462	82-00-62	109
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	12,443	B3-U0-G2	102	12,173	B2-U0-G2	100	12,736	B2-U0-G3	105
107-5-44L-900 WW-62-x	45	900	3000	05	14,768	45-00-63	109	14,448	82-10 G1	107	15.16	82.00.61	1Q
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	16,723	B3-U0-G3	105	16,360	B3-U0-G3	103	17,116	B2-U0-G3	108
CT-5-48L-12A-WW-62+	43	1300	3000	80	18.964	85-UD-G3	102	58.86	83-60-C3	-99	19.001	80-00-64	104
ECF-S-64L-900-WW-G2-x	64	900	3000	178	19,545	B3-U0-G3	110	19,121	B3-U0-G3	108	20,005	B3-U0-G4	113
CT-5-64,-18-WW-63-4	64	1050	3000	206	11.000	83-UD-C3	107	250	E3-00-04	105	22,538	83-00-64	109
	1					Type 5			Type 5W			Type AFR	
	Total	LED Current	Color	Average System	Lumen	BUG	Efficacy	Lumen	BUG	Efficacy	Lumen	BUG	Efficacy
Ordering Code	LEDs	(mA)	Temp.	Watts	Output	Rating	(LPW)	Output	Rating	(LPW)	Output	Rating	(LPW)
CT-5-10, 500 WW-C2-1	12	500	3000	- 54	6,400	\$2-60-GI	15	6.672	83-60-62	130	5.68	83-90-62	- 16
ECF-S-32L-700-WW-G2-x	32	700	3000	73	8,254	B2-U0-G1	113	8,606	B3-U0-G2	118	8,330	B4-U0-G2	114
CF-5-131-54-WW-62-1	12	1090	3000	106	1,621	83-00-62	TRO .	12,76	BH-00-62	10	10.027	84-00-02	п
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	12,890	B3-U0-G2	106	13,440	B4-U0-G2	111	13,008	B4-U0-G2	107
107-5-481-900-WW-60-x	48	900	3000	105	15,299	80-00-62	11	15,901	84-00-62	10	15,438	84-00-52	114
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	17,324	B3-U0-G2	109	18,062	B4-U0-G2	114	17,482	B5-U0-G3	110
ICF-5-48L-12A-WW-62-4	48	1300	3000	10	19,201	\$5-00-62	105	30.09	85-00-63	10	19,407	85-00-63	106
ECF-S-64L-900-WW-G2-x	64	900	3000	178	20,247	B3-U0-G2	114	21,111	B5-U0-G3	119	20,432	B5-U0-G3	115
10F-5-64L-18-WW-53 x	64	1050	3000	206	11.01	60-00-62	- 11	22,764	85-00-63	195	19,000	15-00-53	10
Ordering Code	Total	LED Current (mA)	Color Temp.	Average System Watts	Lumen Output	Type 2 BUG Rating	Efficacy	Lumen Output	Type 3 BUG Rating	Efficacy (LPW)	Lumen Output	Type 4 BUG Rating	Efficacy (LPW)
CF-5-12:-530-WW-62-a	10	500		watts									(01.44)
			3000	- 54		-	(LPW)		101/06/57				CM.
FCE-S-321-700-NW-G2-x	-		4000	5% 73	6.864	80-00-62	-	6,755	81-00-63 B2-110-62	121	3305	81-00-62	124
	32	700	4000	73	6.364 8,853	82-06-62 B2-U0-G2	121	6.765 8,661	B2-U0-G2	121 119	3325 9,062	B1-U0-G2	124
00-5-10-9-99-62-x	32 10	700	4000 4000	73 1016	6.864 8,853 12.464	82-00-62 82-00-62	121 121	8,661 11.154	B2-U0-G2	121 119 115	3005 9,062 9,75P	81-00-62 81-00-62 82-00-63	124
ECF-S-32L-1.2A-NW-G2-x	32 182 32	700 10563 1200	4000 4000 4000	73 108	6,853 6,853 6,853 13,826	B2-U0-G2 B3-U0-G3	121 114	8,661 13,526	B2-U0-G2 B2-U0-G3	121 119 115 111	9,062 12,151	B1-U0-G2 B3-U0-G3 B2-U0-G3	124 121 116
ECF-5-12: 14-100 C2-1 ECF-5-32L-1.2A-NW-62-1 ECF-5-44L-100 NW C2-1	32 50 32 40	700 1056 1200	4000 4000 4000	73 106 122 65	8,853 13,826 16,409	B2-U0-G2 B3-U0-G3	121 121 114 114	6,75 8,661 13,526 13,526	B2-U0-G2 B2-U0-G3	121 119 115 111	3305 9,062 9,157 14,151 16,795	B1-U0-G2 B1-U0-G3 B2-U0-G3 B2-U0-G3	124 121 116 134
ECF-S-32L-1.2A-NW-G2-x ECF-S-32L-1.2A-NW-G2-x ECF-S-48L-1A-NW-G2-x	32 182 32	700 1200 1050	4000 4000 4000 4000	73 122 159	6,853 8,853 13,826 6,409 18,581	B2-U0-G2 B3-U0-G3 B3-U0-G3	121 121 114 114 117	8,661 13,526 18,178	B2-U0-G2 B2-U0-G3 B3-U0-G3	121 119 115 111	9,062 14,151 19,018	B1-U0-G2 B2-U0-G3 B2-U0-G4	124 121 116
ECF-S-32L-1.2A-NW-G2-x ECF-S-48L-1A-NW-G2-x ECF-S-48L-1A-NW-G2-x	32 32 32 48 48	700 1056 1200	4000 4000 4000 4000 4000	73 108 122 159 109	4.864 8,853 12,464 13,826 14,829 18,581 20,629	B2-U0-G2 B3-U0-G3 B3-U0-G3	121 121 114 114 117 117	8,661 13,526 18,178 18,178	B2-U0-G2 B2-U0-G3 B3-U0-G3	119 119 111 115	9,062 9,14,151 14,151 19,018	B1-U0-G2 B2-U0-G3 B2-U0-G4	124 116 120
ECF-S-32L-1.2A-NW-62-x ECF-S-48L-1A-NW-62-x ECF-S-64L-900-NW-62-x	32 32 48 48	700 1050 1200 1050 1050	4000 4000 4000 4000	73 122 159	6,853 8,853 13,826 6,409 18,581	B2-U0-G2 B3-U0-G3 B3-U0-G3	121 121 114 114 117	8,661 13,526 18,178	B2-U0-G2 B2-U0-G3 B3-U0-G3	119 119 111 111 115	9,062 14,151 19,018	B1-U0-G2 B2-U0-G3 B2-U0-G4	124 116 104 120
ECF-S-32L-1.2A-NW-G2-x ECF-S-48L-16A-NW-G2-x ECF-S-48L-1A-NW-G2-x	32 32 48 48 64	700 1000 1200 1050 1050 900 1058	4000 4000 4000 4000 4000	73 108 122 155 159 60 178 206	4.864 8,853 12,464 13,826 6,400 18,581 20,629 21,717	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3	121 114 114 117 122	8,661 13,526 18,178 18,178 21,246	B2-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G4	119 111 111 115 115 119	9,062 9,14,151 14,151 19,018 22,228	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4	124 116 120 125
ECF-S-32L-1.2A-NW-62-x ECF-S-48L-1A-NW-62-x ECF-S-64L-900-NW-62-x	32 32 48 48 64	700 1200 1050 1050 900	4000 4000 4000 4000 4000	73 122 159 100 178 206	4.864 8,853 12,464 13,826 6,400 18,581 20,629 21,717	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3	121 121 114 114 117 117 117 112 122	8,661 13,526 18,178 18,178 21,246	B2-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G4	119 111 111 115 115 119	9,062 9,14,151 14,151 19,018 22,228	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4	124 116 120 125
ECF-S-32L-1.2A-NW-62-x ECF-S-48L-1A-NW-62-x ECF-S-64L-900-NW-62-x	32 32 48 48 64	700 1000 1000 1050 1050 1050 1050 1050 1	4000 4000 4000 4000 4000 4000	73 108 122 155 159 60 178 206	4.864 8,853 12,464 13,826 18,581 19,623 21,717 28,462	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	121 114 114 117 122	8,661 13,526 18,178 18,178 21,246	B2-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4	119 119 111 111 115 115 119	9,062 0,967 14,151 19,018 29,028 22,228 25,048	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4	124 116 120 125
ECF-5-48L-12-NW-62-x ECF-5-48L-1A-NW-62-x ECF-5-48L-1A-NW-62-x ECF-5-64L-300-NW-62-x	32 32 48 48 64 Total	700 1000 1200 900 1050 900 1059 900	4000 4000 4000 4000 4000 4000	73 122 155 159 178 206 Xerage System	4,853 42,444 13,826 18,581 18,581 21,717 21,717 21,717	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	121 121 114 114 117 117 122 122 Efficacy	8,661 13,526 13,526 18,178 18,178 21,246 21,246 21,246	B2-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4 Type 5W BUG	119 119 111 111 115 115 119 119 119 Efficacy	9,062 1,14,151 14,151 19,018 22,228 22,228	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 Type AFR BUG	124 116 120 125 125 125
ECF-5-11-2A-NW-52-x ECF-5-12-1-2A-NW-52-x ECF-5-48L-14-NW-62-x ECF-5-48L-14-NW-62-x ECF-5-64L-900-NW-62-x Ordering Code	32 32 48 64 54 Total LEDs	700 1200 900 1050 900 1050 LED Current (mA)	4000 4000 4000 4000 4000 4000 4000	73 122 159 101 178 206 178 206 System Watts	4.864 8,853 12,444 13,826 18,581 29,829 21,717 21,717 21,717 21,717 21,717 21,717	B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	121 121 114 114 117 117 122 122 122 122 122	8,661 8,661 13,526 8,663 18,178 21,246 21,246 21,566 21,566 21,566	B2-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4	119 119 111 115 115 119 119 Efficacy (LPW)	9,062 9,062 14,151 19,018 22,228 25,141 Lumen Output	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 Type AFR BUG Rating	124 116 120 125 125 Efficacy (LPW)
ECF-5-321-12A-NW-52-x ECF-5-321-12A-NW-52-x ECF-5-481-40-W-62-x ECF-5-481-40-NW-62-x Ordering Code ECF-5-321-700-NW-62-x	32 32 48 64 Total LEDs	700 1000 1000 1050 1050 1050 1050 1050 1	4000 4000 4000 4000 4000 4000 4000 400	73 122 159 159 178 386 Average System Watts	8,853 13,826 13,826 18,581 21,717 21,717 24,453 Lumen Output	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3	121 121 114 114 117 117 122 122 Efficacy (LPW)	8,661 13,526 13,526 18,178 21,246 21,246 11,506	82-U0-G2 82-U0-G3 83-U0-G3 83-U0-G3 83-U0-G4 83-U0-G4 83-U0-G4	119 111 111 115 115 119 119 119 Efficacy (LPW)	9,062 0,062 0,062 0,068 14,151 0,018 22,228 25,041 0,018 0,0000000000	B1-U0-G2 B2-U0-G3 B2-U0-G3 B3-U0-G4 B3-U0-G4 Type AFR BUG Rating	124 116 120 125 125 Efficacy (LPW)
CF-5-321-124-NW-52+ CF-5-321-124-NW-52+ CF-5-481-4NW-52+ CF-5-481-400-NW-62+ CF-5-481-400-NW-62+ CF-5-321-700-NW-52+	32 32 48 64 Total LEDs 32	700 1200 1050 1050 900 8068 EED Current (mA) 308 700	4000 4000 4000 4000 4000 4000 4000 Color Temp. 4000	73 122 159 159 178 386 System Watts 56 73	8,853 13,826 14,644 13,826 18,581 21,717 21,717 24,483 21,717 24,483 21,717 24,483 21,717 24,483 21,717 24,483 21,717 24,483 21,717 24,483 21,717 24,484 24,717 24,717 24,484 24,7177 24,7177 24,7177 24,7177 24,717	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G2 B3-U0-G2	121 121 114 114 117 117 122 189 122 199 100 (LPW)	8,661 13,526 18,178 21,246 19,255	82-U0-G2 82-U0-G3 83-U0-G3 83-U0-G4 83-U0-G4 84 84 84 84 84 84 84 84 84 8	119 111 111 115 115 119 119 119 Efficacy (LPW)	9,062 0,062 14,151 19,018 22,228 2,324 2,3	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B4U6 Rating B2-U0-G1	124 116 120 125 125 Efficacy (LPW) 126
ECF-5-121-12-NW-52-x ECF-5-641-900-NW-52-x Ordering Code ECF-5-121-12-NW-52-x ECF-5-121-12-NW-52-x	32 32 48 64 Total LEDs 32	700 1200 1050 900 808 900 808 808 808 808 808 808 80	4000 4000 4000 4000 4000 4000 4000 400	73 122 159 159 178 344 59 59 59 59 59 50 59 50 50 50 50 50 50 50 50 50 50 50 50 50	8,853 13,826 18,581 21,717 21,717 24,857 Uumen Output 9,563	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 BUG Rating B3-U0-G2	121 121 114 114 117 117 122 122 155 (LPW) 123 131	8,661 13,526 18,178 21,246 19,178 21,246 19,155 9,255	82-U0-G2 82-U0-G3 83-U0-G3 83-U0-G4 83-U0-G4 84-U0-G2 84-U0-G2	119 111 111 115 119 119 119 Efficacy (LPW) 127	9,062 0,062 14,151 19,018 22,228 25,341 22,228 19,018 22,228 19,018 19,018 22,228 19,018 22,228 19,018 22,228 19,018 22,228 19,018 19,0	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 BUG Rating B2-U0-G1	124 116 120 125 125 00 Efficacy (LPW) 126
ECF-5-321-12A-NW-52-x ECF-5-481-14-NW-52-x ECF-5-481-900-NW-52-x ECF-5-321-900-NW-52-x ECF-5-321-700-NW-52-x ECF-5-321-700-NW-52-x	32 32 48 48 64 5 48 64 5 48 64 5 48 64 5 20 20 20 20 20 20 20 20 20 20 20 20 20	700 1200 1050 900 LED Current (mA) 506 700	4000 4000 4000 4000 4000 4000 4000 400	73 122 159 159 178 306 System Watts 73 73	8,853 13,826 18,581 21,717 21,717 24,452 21,717 24,453 14,933	B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 BUG Rating B3-U0-G2 B4-U0-G2	121 121 114 114 117 122 122 189 122 Efficacy (LPW) 131 131	8,661 13,526 8,644 18,178 21,246 21,246 21,246 21,246 21,245 21,2	82-U0-G2 82-U0-G3 83-U0-G3 83-U0-G3 83-U0-G4 7ype 5W BUG BUG BUG BUG BUG BUG BUG BUG	119 111 111 115 115 119 119 Efficacy (LPW) 127 127 127	9,062 14,151 19,018 22,228 25,141 Lumen 0,172 9,172 14,322	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 Type AFR BUG Rating B2-U0-G1 B3-U0-G2	124 116 120 125 125 125 125 125 125 126 126 126 126
ECF-5-321-12A-NW-62-x ECF-5-481-40-W-62-x ECF-5-481-40-NW-62-x ECF-5-481-40-NW-62-x ECF-5-321-700-NW-62-x ECF-5-321-700-NW-62-x ECF-5-481-12A-NW-62-x	32 32 48 48 64 Totai LEDs 32 32	700 1200 1050 1050 1050 1050 1050 1050 10	4000 4000 4000 4000 4000 4000 4000 400	73 122 159 159 178 Xwerage System Watts 73 122	8,853 13,826 18,581 21,717 21,717 24,857 Cutput 9,563 14,933	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G2 B3-U0-G2 B4-U0-G2	121 114 114 122 122 122 Efficacy (LPW) 131 131	8,661 13,526 18,178 21,246 19,245 9,255 14,453	B2-U0-G2 B2-U0-G3 B3-U0-G3 B3-U0-G4 B3-U0-G4 BUG Rating B4-U0-G2 B4-U0-G2	119 111 115 115 119 Efficacy (LPW) 127 127	9,062 9,062 14,151 19,018 22,228 25,041 19,018 22,228 25,041 19,018 19,0	B2-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 B3-U0-G4 B3-U0-G4 B2-U0-G1 B2-U0-G1 B3-U0-G2	124 116 120 125 125 Efficacy (LPW) 126 126
ECF-S-32L-1.2A-NW-G2-x ECF-S-48L-1A-NW-G2-x ECF-S-64L-900-NW-G2-x	32 32 48 64 7 7 7 7 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8	700 1200 1050 900 900 EED Current (m) 308 700 1200	4000 4000 4000 4000 4000 4000 4000 400	73 122 159 159 178 306 5ystem 955 73 665 159	8,853 13,826 13,826 18,581 21,717 21,	B2-U0-G2 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G3 B3-U0-G2 B3-U0-G2 B4-U0-G2 B5-U0-G3	121 121 14 14 14 17 17 17 122 16 122 123 123	8,661 13,526 18,178 21,246 21,246 21,246 19,725 14,453 19,424	82-U0-G2 82-U0-G3 83-U0-G3 83-U0-G4 83-U0-G4 84-U0-G2 84-U0-G2 85-U0-G3	119 111 115 115 119 Efficacy (LPW) 127 127	9,062 14,151 19,018 22,228 24,248 24,	B1-U0-G2 B2-U0-G3 B2-U0-G4 B3-U0-G4 Type AFR BUG Rating B2-U0-G1 B3-U0-G2 B3-U0-G2	124 116 120 125 125 (LPW) 126 126 118 128

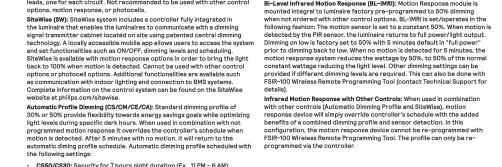
ECF-S EcoForm small Area luminaire Specifications

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Optical systems Mounting

slipfitter and wall mounting accessories. Control options



CS50/CS30: Security for 7 hours night duration (Ex., 11 PM - 6 AM) CM50/CM30: Median for 8 hours night duration (Ex., 10 PM - 6 AM) CE50/CE30: Economy for 9 hours night duration (Ex., 9 PM - 6 AM) CA50/CA30: for all night (during all dark hours) All above profiles are calculated from mid point of the night. Dimming is se

Housing One-piece die cast aluminum housing with integral arm and separate, self-retained hinged, one-piece die cast door frame. Luminaire housing rated to IP66, tested in accordance to Section 9 of IEC 60598-1. Withereting mainteering and the self of the section of the 100% 10 Note: Typical value accuracy +/- 5% Wireless system (LLC): Optional wireless controller integral to luminal Optical systems Wireless system Use 2, 3, 4, and AFR distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, 4, and AFR distributions system (LLQ): Opticnal wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless you controls can be combined with site and area, pedestrian, and parking grarge luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens for #25 monuting heights. Also available Mounting Standard luminaire arm mounts to 4° O.D. round poles. Can also be used with 6° O.D. poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3° poles. EcoForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, EcoForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately. Also optional are silprifter and wall mounting accessories. 10 0 10 significant and wail mounting accessories. Control options 0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options. Dual Circuit Control (DCC): Luminaire equipped with the ability to have two separate dircuits controlling drivers and light engines independently. Permits leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocolls. SiteWise (SW): SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Cannot be used with other control options, or photocoll options. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems. Complete Information on the control system can be found on the SiteWise website at philips.com/sitewise.

for 6 hours after the mid point and 1, 2, or 3 hours before depending of t duration of dimming. Cannot be used with other dimming control options. ECF-S_EcoForm_area_small 04/19 page 7 of 8

PROGRESS LIGHTING"

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Dimming Notes: P5642-31/30K is designed to be compatible with many ELV/Reverse Phase controls.

The following is a partial list of known compatible dimmer controls.

Leviton_Renoir II AWRMG-EAW

Leviton_6615-P

Dimming Controls: Lutron_Diva DVELV-300P Lutron_Nova NTELV-300 Lutron_Vert VTELV-600 Lutron_Maestro MAELV-600 Lutron_spacer/system SPSELV-600

Wall Mounted - Damp Location Listed PROGRESS LED

P5642-31/30K

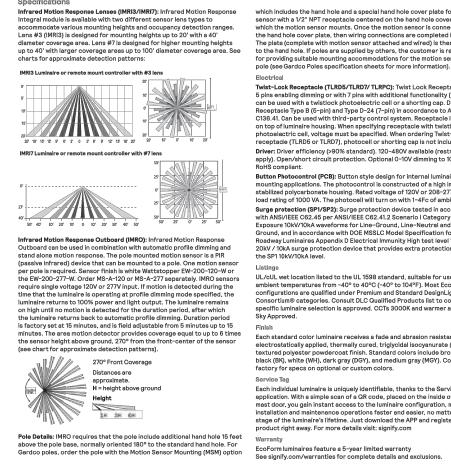
Dimming capabilities will vary depending on the dimmer control, load, and circuit Always refer to dimmer manufacturer instructions or a controls specialist for specific requirements. Dimmer control brand names where identified above are trade names or registered trademarks of each respective company

ECF-S EcoForm small Area luminaire 5000K LED Wattage and Lumen Values

		LED		Average		Type 2			Type 3		Type 4		
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
07-5-121-530 CW-62-1	12	500	5000	- 56	6.558	62-00-62	109	6.514	81-00-52	10	6.85	81-00-62	01
ECF-S-32L-700-CW-G2-x	32	700	5000	73	8,588	B2-U0-G2	118	8,402	B2-U0-G2	115	8,790	B1-U0-G2	121
ID-5335 W-CW-62+	12	1058	9000	106	12.090	60-00-62	84	1.825	R2 60 62	10	12.375	82-00-63	10
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	13,411	B3-U0-G3	110	13,120	B2-U0-G3	108	13,726	B2-U0-G3	113
R7-5-48L-900-CW-62-s	45	900	9000	- 105	630	40-00-63	16	8.572	E240.61	15	8,29	82.00.63	121
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	18,023	B3-U0-G3	114	17,633	B3-U0-G3	111	18,447	B2-U0-G4	116
07-5-44L-12A-CW-62-x	43	1300	9000	80	30008	\$5-UD-C3	BQ.	8354	E3-60-64	307	20,479	80.00.64	11Q
ECF-S-64L-900-CW-G2-x	64	900	5000	178	21,065	B3-U0-G3	118	20,609	B3-U0-G4	116	21,561	B3-U0-G4	121
									and the second sec				
07-5-64L-18-CW-62+	64	1050	9000	206	21,758	83-00-63	15	23,298	E3-60-64	10	24,291	83-90-64	18
107-5-64,-18-CW-62-x	6.6		9000		21,718	Type 5	15	25,298	Type 5W	10	34,281	Type AFR	18
Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	21,798 Lumen Output		Efficacy (LPW)	Lumen Output		Efficacy (LPW)	24.291 Lumen Output	Longoine	Efficacy (LPW)
	Total	LED Current	Color	Average System	Lumen	Type 5 BUG	Efficacy	Lumen	Type 5W BUG	Efficacy	Lumen	Type AFR BUG	Efficacy
Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Lumen Output	Type 5 BUG Rating	Efficacy (LPW)	Lumen Output	Type 5W BUG Rating	Efficacy (LPW)	Lumen Output	Type AFR BUG Rating	Efficacy (LPW)
Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Lumen Output	Type 5 BUG Rating	Efficacy (LPW)	Lumen Output	Type 5W BUG Rating	Efficacy (LPW)	Lumen Output	Type AFR BUG Rating	Efficacy (LPW)
Ordering Code ECF-S-32L-700-CW-G2-x	Total LEDs 12 32	LED Current (mA)	Color Temp. 5000	Average System Watts 73	Lumen Output 8,896	Type 5 BUG Rating B2-U0-G1	Efficacy (LPW) 122	Lumen Output 9,276	Type 5W BUG Rating B3-U0-G2	Efficacy (LPW) 127	Lumen Output 8,978	Type AFR BUG Rating B4-U0-G2	Efficacy (LPW)
Ordering Code ECF-S-32L-700-CW-62-x ECF-S-32L-700-CW-62-x	Total LEDs 32	LED Current (mA) 508 700	Color Temp. 5000 5000	Average System Watts 73	Lumen Output 8,895 12,124	Type 5 BUG Rating B2-U0-G1	Efficacy (LPW) 122	Lumen Output 3,38 9,276	Type 5W BUG Rating B3-U0-G2	Efficacy (LPW) 127	Lumen Output 8,978	Type AFR BUG Rating B4-U0-G2	Efficacy (LPW) 123 100
Ordering Code ECF-S-32L-700-CW-G2-x ECF-S-32L-1.2A-CW-G2-x	Total LEDs 32 10 32 32	LED Current (mA) 500 700 5000 1200	Color Temp. 5000 5000 5000	Average System Watts 73 122	Lumen Output 8,896 11,893	Type 5 BUG Rating B2-U0-G1 B3-U0-G2	Efficacy (LPW) 122 114	Lumen Output 9,276 14,485	Type 5W BUG Rating B3-U0-G2 B4-U0-G2	Efficacy (LPW) 127 134 119	Lumen Output 8,978 14,020	Type AFR BUG Rating BUG B4-U0-G2 B4-U0-G2	Efficacy (LPW) 123 123 115
Ordering Code ECF-5-321-700-CW-62-x ECF-5-321-12A-CW-62-x ECF-5-481-1A-CW-62-x	Total LEDs 32 32 32	LED Current (mA) 506 700 5066 1200	Color Temp. 5000 5000 5000	Average System Watts 73 73 122 155	Lumen Output 8,896 11,893 13,893	Type 5 BUG Rating B2-U0-G1 B3-U0-G2	Efficacy (LPW) 122 114	Lumen Output 3,38 9,276 10,258 14,485 114,485	Type 5W BUG Rating B3-U0-G2 B4-U0-G2	Efficacy (LPW) 127 127 134 119	Lumen Output 8,978 14,020	Type AFR BUG Rating B4-U0-G2 B4-U0-G2	Efficacy (LPW) 123 100 115
Ordering Code ECF-S-321-700-CW-62-x ECF-S-321-12A-CW-62-x	Total LEDs 32 32 32 48	LED Current (mA) 700 1200 1050	Color Temp. 5000 5000 5000	Average System Watts 73 122 122 159	Lumen Output 8,896 13,893 18,671	Type 5 BUG Rating B2-U0-G1 B3-U0-G2 B3-U0-G2	Efficacy (LPW) 122 114 114 118	Lumen Output 9,276 14,485 19,467	Type 5W BUG Rating B3-U0-G2 B4-U0-G2 B5-U0-G3	Efficacy (LPW) 127 119 119 123	Lumen Output 8,978 14,020 18,841	Type AFR BUG Rating B4-U0-G2 B4-U0-G2 B4-U0-G2 B5-U0-G3	Efficacy (LPW) 123 123 100 115 119

ECF-S EcoForm small Area luminaire Specifications

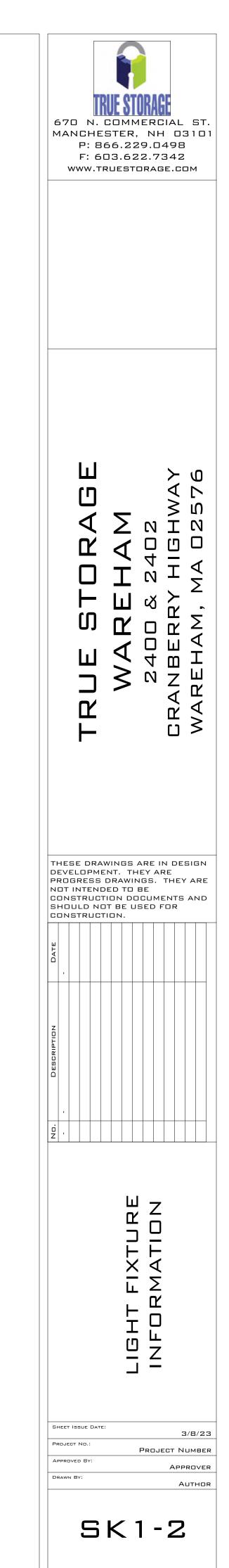
ECF-S_EcoForm_area_small 04/19 page 4 of 8



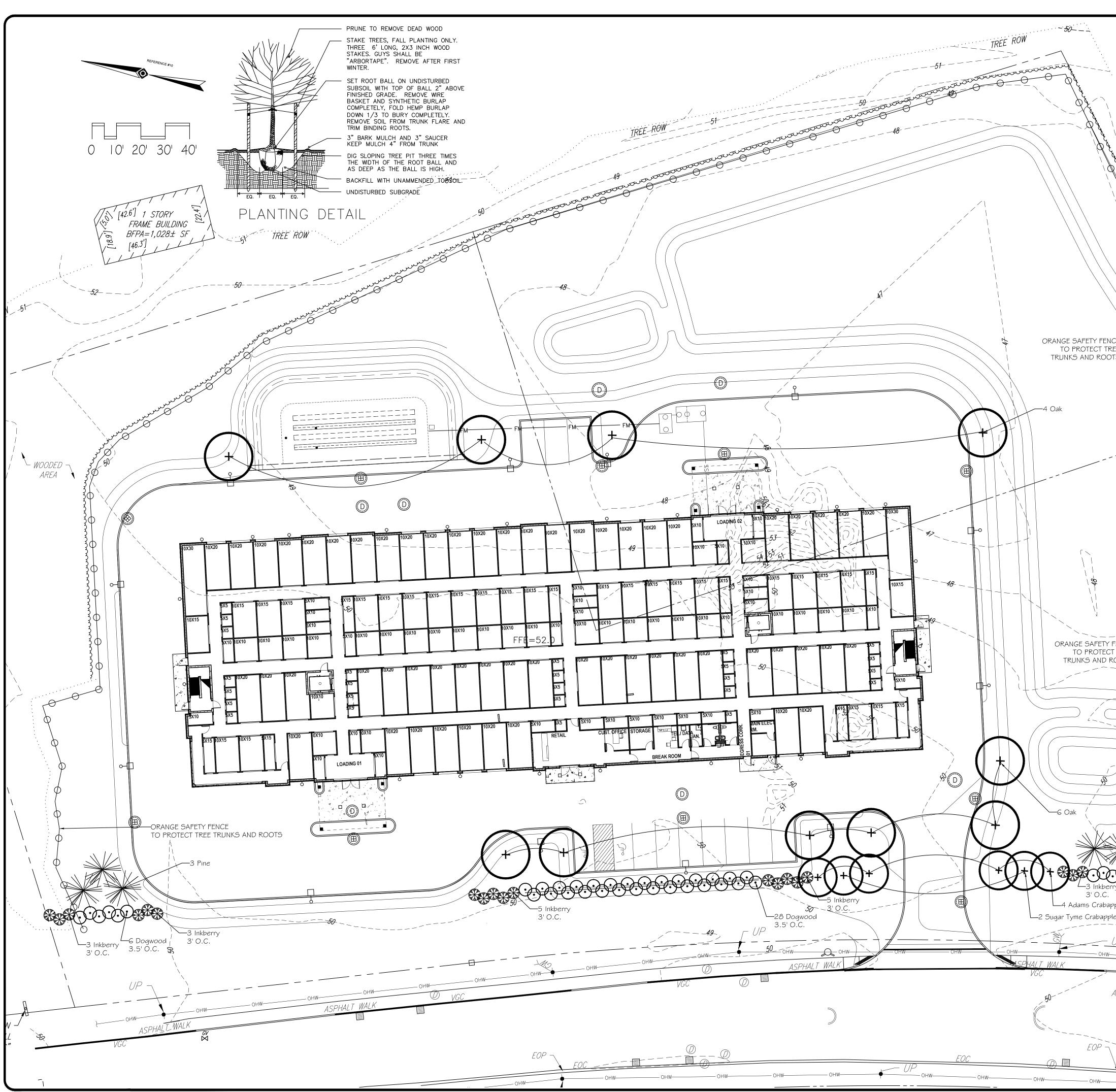
which includes the hand hole and a special hand hole cover plate for the sensor with a 1/2" NFT receptacle centered on the hand hole cover plate into which the motion sensor mounts. Once the motion sensor is connected to the hand hole cover plate, then wiring connections are completed in the pole. The plate (complete with motion sensor attached and wired) is then mounted to the hand hole. If poles are supplied by others, the customer is responsible for providing suitable mounting accompodations for the motion sensor in the for providing suitable mounting acc pole (see Gardco Poles specification Electrical Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (6-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering Twist-lock receptacle (TLRD5 or TLRD7), photocell or shorting cap is not included. Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant. Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV Electrical mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light. Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Forund, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level. Listings LL/cLL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most EcoForm configurations are qualified under Premium and Standard DesignLights Consortium® categories. Consult DLC Qualified Products list to confirm yo specific luminaire selection is approved. CCTs 3000K and warmer are Dark Site Accession Sky Approved. Finish Each standard color luminaire receives a fade and abrasion resistant

electrostatically applied, thermally oured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BN, white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors. Service Tag Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making nstallation and maintenance operations faster and easier, no matter wh stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract. Signify



SCALE:



NCE REE OTS	 10. SET PLANT IN THE HOLE. CUT AWAY ALL VISIBLE ROPE AND BURLAP. REMOVE WIE BASKETS. REMOVE Soil. TO EXPOSE ROOT FLARE. AND RIE BASKETS. REMOVE Soil. TO EXPOSE ROOT FLARE. 6. BACKFILL HOLE WITH EXISTING SOIL. WHEN BACKFILLING IS HALF COMPLETE, AND FILL FIT WITH WATER AND ALLOW TO REMOVE AIR POCKETS. COMPLETE BUILT FIT WITH WATER AND ALLOW TO REMOVE AIR POCKETS. COMPLETE BOCKFILLING LEAVING THE ROOT FLARE EXPOSED. M. MATER FOR 5 MINUTES IMMEDIATELY AFTER PLANT PIT. FLOOD WITH MATER FOR 5 MINUTES IMMEDIATELY ARTER PLANT PIT. FLOOD WITH WITH WATER FOR 5 MINUTES IMMEDIATELY AFTER PLANT PIT. FLOOD WITH WITH WATER FOR 5 MINUTES IMMEDIATELY AFTER PLANTING. M. WITH WATER FOR 5 MINUTES IMMEDIATELY AFTER PLANT PIT. FLOOD WITH PRESONSIBLE FOR SIMULING ON ALL TREES AND SHRUBS ING WITH WATER FOR SIMULING ON ALL TREES AND SHRUBS ING PLAN MATERIALS. STAKES AND FLOR FOR THE ANTER. M. STAKES AND TREE WAP FIALL BE REMOVED IN THE SPRING PLANT MATERIALS. STAKES AND FILL BE REMOVED IN THE SIMULATION OF ALL TREES AND SHRUBS ING PLANT MATERIALS. STAKES AND FILL BE REMOVED IN THE STRUCK. M. DIJUCH AREAS AROUND PROPOSED TREES WAP SHALL BE REMOVED IN THE SPRING PLANT MATERIALS. STAKES AND SHRUBS AND ALL PLANT BED. M. DIJUCH AREAS AROUND PROPOSED TREES AND SHRUBS AND ALL PLANT BED. M. DIJUCH AREAS AROUND PROPOSED TREES AND SHRUBS AND ALL PLANT BED. M. DIJUCH AREAS AROUND PROPOSED TREES AND SHRUBS AND ALL PLANT BED. M. DIJUCH AREAS AROUND PROPOSED TREES AND SHRUBS AND ALL PLANT BED. M. DIJUCH AREAS AROUND PROPOSED TREES AND SHRUBS AND ALL PLANT BED. M. DIJUCH AREAS AROUND PROPOSED TREES AND SHRUBS AND ALL PLANT BED. M. DIJUCH AREAS AROUND PROPOSED TREES AND SHRUBS AND ALL PLANT BED. M. DIJUCH AREAS ARD AND AN AREA. DO NOT FRATILIZE. M. DIJUCH AREAS AND AND AN AREA. DO NOT FRATILIZE. M. DIJUCH AREAS AND AND AN AREA. DO NOT FRATILIZE. M. DIJUCH AREAS AND AND AN AREA AND AND AND AND	WEINMAYR/JAY ASSOCIATES, INC. LANDSCAPE ARCHITECTS Owner TRUE STORAGE WAREHAM JANDSCAPE ARCHITECTS Owner 360 Charles River Rd. Watertown, MA 02472 Jay@weinmaynay.com 617.957.9733 Jay@weinmaynay.com David A. Jay, MA Regist. No. 1019 565 Middlesex Street, Lowell, MA
Y FENCE CT TREE ROOTS	PLANTING NOTES I. UTILITES: CALL DIG SAFE PRIOR TO ANY DIGGING OR GRADING AT THE SITE. LANDSCAPE CONTRACTOR SHALL REVIEW ARCHITECTURALENGINEERING PLANS TO BECOME THOROUGHLY FAMILIAR WITH SURFACE AND SUBSURFACE UTILITIES: LANDSCAPE CONTRACTOR IS TO COORDINATE HIS WORK WITH THE IRRIGATION AND LIGHTING CONTRACTORS. LANDSCAPE CONTRACTOR IS TO COORDINATE HIS WORK WITH THE IRRIGATION AND LIGHTING CONTRACTORS. LONDSCAPE CONTRACTORS. COMPACTED LOAM SHALL BE TILLED PRIOR TO THE SPREADING OF LOAM. COMPACTED LOAM SHALL BE TILLED PRIOR TO THE SPREADING OF LOAM. COMPACTED LOAM SHALL BE TILLED PRIOR TO THE SPREADING OF LOAM. COMPACTED LOAM SHALL BE TILLED PRIOR TO THE SPREADING OF LOAM. COMPACTED LOAM SHALL BE TILLED PRIOR TO THE SPREADING OF LOAM. BE ARRATED. 3. LOAM SHALL BE CLEAN, WELL DRAINED TOPSOIL, FREE OF TOXINS, CONTANING A MINIMUM OF 10% ORGANIC MATTER, THOROUGHLY RAKED TO REMOVE STONES AND DEBRIS GREATER THAN J''. WHETHER, FROM THE SITE OR IMPORTED, LOAM SHALL BE TESTED FOR PLANTING SUITABILITY (pH, ORGANIC MATTER, AVAILABLE PLANT NUTRIENTS, CN RATIO, BULK DENSITY, SOLUBLE SALTS, HEAVY METALS, FTC.). AT LEAST THREE TESTS SHALL BE ADDED AND TILLED INTO THE SOIL AS AND DEBRIS GREATER THAN J''. CONTRACTOR SHALL PROVIDE A PROGRAM OF CORRECTIVE ACTIONS. COMPOST SHALL BE ADDED AND TILLED INTO THE SOIL AS NINIMUM OF 6" OF LOAM. ALL LAWN AREAS SHALL HAVE A MINIMUM OF 6" OF LOAM. 4. PLANT PRIS SHALL BE THREE ROOT BALL DIAM AREAS SHALL HAVE A MINIMUM OF 6" OF LOAM. 4. PLANT FROM THE TOP OF THE ROOT BALL DOWN TO THE TRUNK FLARE BY LOOSENING THE BURLAP CADE SHALL DO THE TOP OF THE ROOT THAT AND THE PLANT FOLS THE BURLAPE AND DIG PLANT PIT SUCH THAT ROOT FLARE BY LOOSENING THE BURLAPE GRADE. ROOT FLARE BY LOOSENING THE BURLAP CADE BURLAP CADE BURLAPER. ROOT FLARE IS 1 TO 2 INCHES ABOVE FINISHED GRADE.	LANDSCAPE PLAN FRUE STORAGE FACILITY 2402 CRANBERRY HIGHWAY, WAREHAM, MA
B C C C C C C C C C C C C C	e BOTANICAL NAME BOTANICAL NAME Malus 'Adams' Malus 'Sutyzam' Pinus strobus Quercus rubra Quercus rubra Ilex glabra Ilex glabra	BY DESCRIPTION
ASPHALT WALK	ANT LIST SIZE COMMON NAME TREES 1.5-2" Adams Crabapple 1.5-2" Sugar Tyme Crabapple 6-7' White Pine (large) 2.5-3" Red Oak 2.5-3" Red Oak 3-4' Variegated Red Twig I 3-4' Inkberry	DATE: MARCH 29, 2023 DRAWN: D.A.J. CHECKED: D.A.J. SCALE: I*=20'
0HW	PLA 22 22 40 10 66 22 22	DRAWING NO.