SITE PLAN & SPECIAL EXCEPTION APPLICATION

FOR



19,758 SQ. FT. RETAIL BUILDING, ASSESSOR'S MAP/BLOCK/LOT#H02-403-002B #1603 HOPMEADOW STREET (CT RTE. #202) SIMSBURY, CONNECTICUT

DATE: APRIL 28, 2021

OWNER

VALLEY RECREATION, LLC 65 NOD ROAD AVON, CT 06001

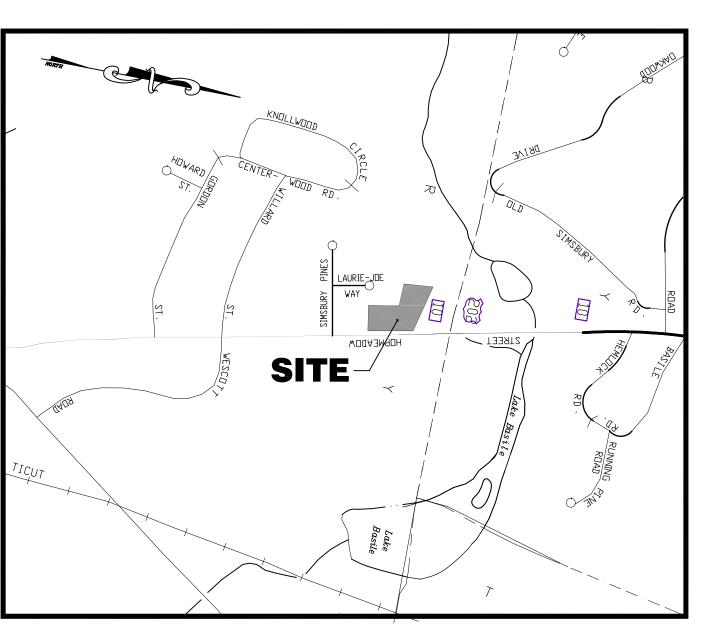
APPLICANT & DEVELOPER

MACK V DEVELOPMENT, LLC

93 NORTH MAIN STREET

WEST HARTFORD, CT 06107

ATTENTION: MATTHEW DARLING
PHONE NUMBER: 860-319-7914



LOCATION MAP

SHEET INDEX

SHEET #	DRAWING TITLE
1	EXISTING CONDITIONS SURVEY
2	SITE DEMOLITION PLAN
3	ZONING IMPROVEMENT LOCATION SURVEY / SITE LAYOUT PLAN
4	DEFERRED PARKING PLAN
5	SITE GRADING & DRAINAGE PLAN
6	SITE UTILITIES PLAN
7	EROSION AND SEDIMENT CONTROL PLAN
8	EROSION AND SEDIMENT CONTROL NOTES
9	GENERAL NOTES
10 -15	SITE DETAILS
16	SIGN DETAILS
LS-1.0	SITE LANDSCAPING PLAN
PH-1.0	SITE LIGHTING PLAN
A-1	BUILDING ELEVATIONS



HALLISEY, PEARSON & CASSIDY

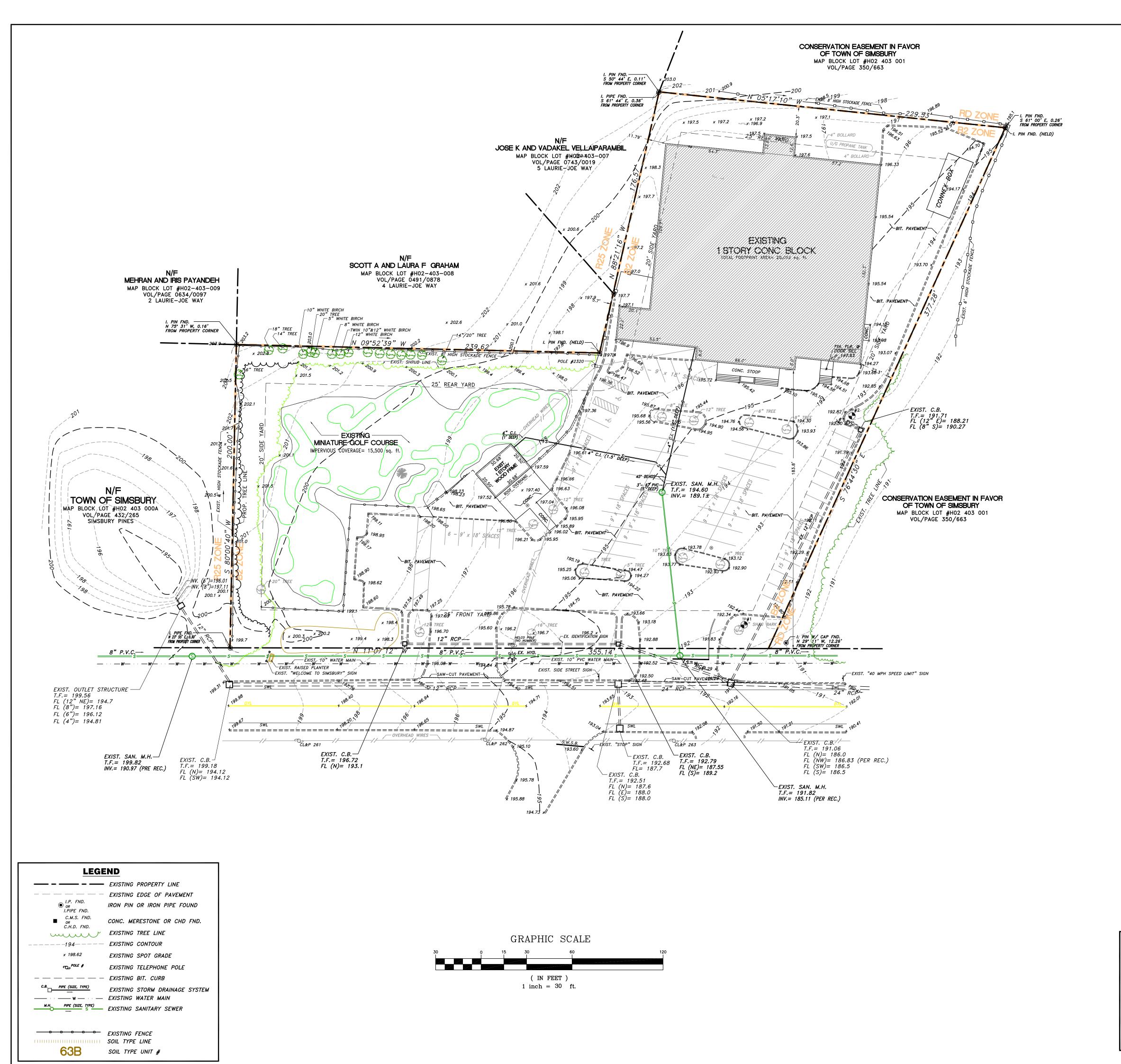
CIVIL ENGINEERS & LAND SURVEYORS

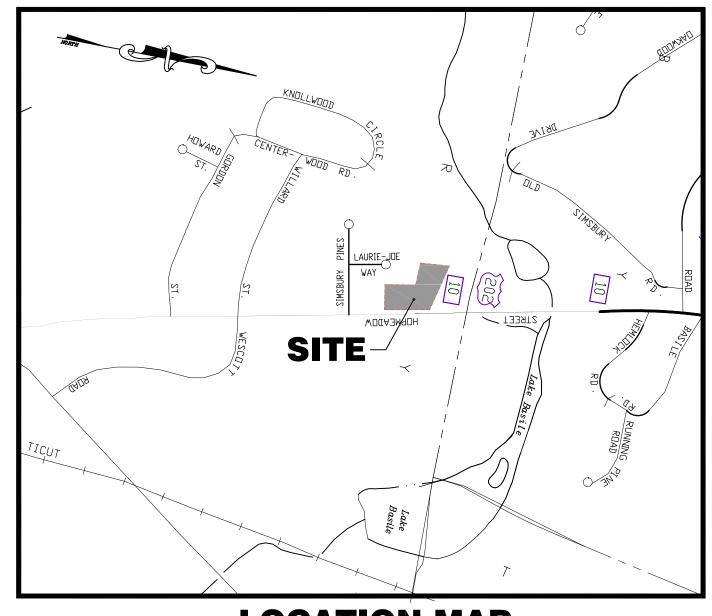
630 MAIN STREET, UNIT #1A

CROMWELL, CONNECTICUT 06416

PHONE: (860)-529-6812, FAX: (860)-721-7709







LOCATION MAP

SCALE: 1"= 1000'

NOTES:

1. SURVEY NOTES:

-This survey has been prepared pursuant to the Regulation of Connecticut
State Agencies Section 20-300b-1 Through 20-300b-20 and the "Standards for
Surveys and Maps in the State of Connecticut" as adopted by the Connecticut
Association of Land Surveyors, Inc. on September 26, 1996.

-Type Of Survey is PROPERTY & TOPOGRAPHIC SURVEY
-Boundary Determination Category is DEPENDENT RESURVEY MAP REF A
-Class of Accuracy is :HOR.-'A-2', "T-2" TOPO, "V-2" VERT.

2. PROPERTY MAY BE BURDENED AND/OR BENEFITED BY RECORDED AND/OR UNRECORDED EASEMENTS OR RIGHTS OF WAY.

3. A PORTION OF THIS PROPERTY IS LOCATED IN A FLOOD ZONE X (AREA OF 0.2% ANNUAL CHANCE FLOOD HAZARD) AS SHOWN OF FIRM COMMUNITY MAP NO. 09003C0191F EFFECTIVE DATE: SEPT. 26, 2008.

4. PROPERTY IS ZONED: (B-2) BUSINESS ZONE

5. ORIGINAL PARCEL AREA = 113,008 sq.ft.. or 2.5943 acres.

6. MAP REFERENCE: A). "SITE PLAN OF DEVELOPMENT SHOWING EXISTING AND PROPOSED IMPROVEMENTS
FARMINGTON VALLEY RECREATION, INC. PREPARED FOR VICTOR PUIA
#1603 HOPEMEADOW STREET SIMSBURY, CONNECTICUT, B-1 ZONE,
DATE: SEPT. 30, 1985, REVISED through: 05-9-1986, PREPARED BY: HENRY CHARLES COTTON"

B). "SCHEDULE 3 (31 UNITS) PROPERTY/BOUNDARY SURVEY DEVELOPER: 1617 HOPEMEADOW, LLC SUMMERFIELD AT SIMSBURY HOPMEADOW STREET, SIMSBURY, CONNECTICUT, DATE: 3-17-99, REVISED through: 3-24-99, SHEET: 1 OF 2, PREPARED BY: THE BONGIOVANNI GROUP, INC."

C). "SIMSBURY PINES PREPARED FOR C.G.R. DEVELOPERS, INC. HOPEMEADOW STREET — SIMSBURY. CONNECTICUT, DATE: MAY 06, 1993, REVISED through: 8/10/93, PREPARED BY: ED LALLY AND ASSOCIATES, INC."

ZONE: B-2	REQUIRED	EXISTING
USE		BOWLING ALLIES/MINI-GOLF
MINIMUM LOT AREA	NO MIN.	113,008 sq. ft.
MIN. LOT FRONTAGE	N/A	355.14'
MAX. IMPERVIOUS COVERAGE	40%	84,199 sq.ft./113,008 sq. ft.= 74.4%
MAX. BUILDING HEIGHT	40'	<40'
MIN. FRONT YARD DEPTH	25'	183.8'
MIN. SIDE YARD DEPTH	20'	5.7'* / 22.3'
MIN. REAR YARD	25'	20.3'*

^{*-} DENOTES EXISTING NON-CONFORMING

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON:

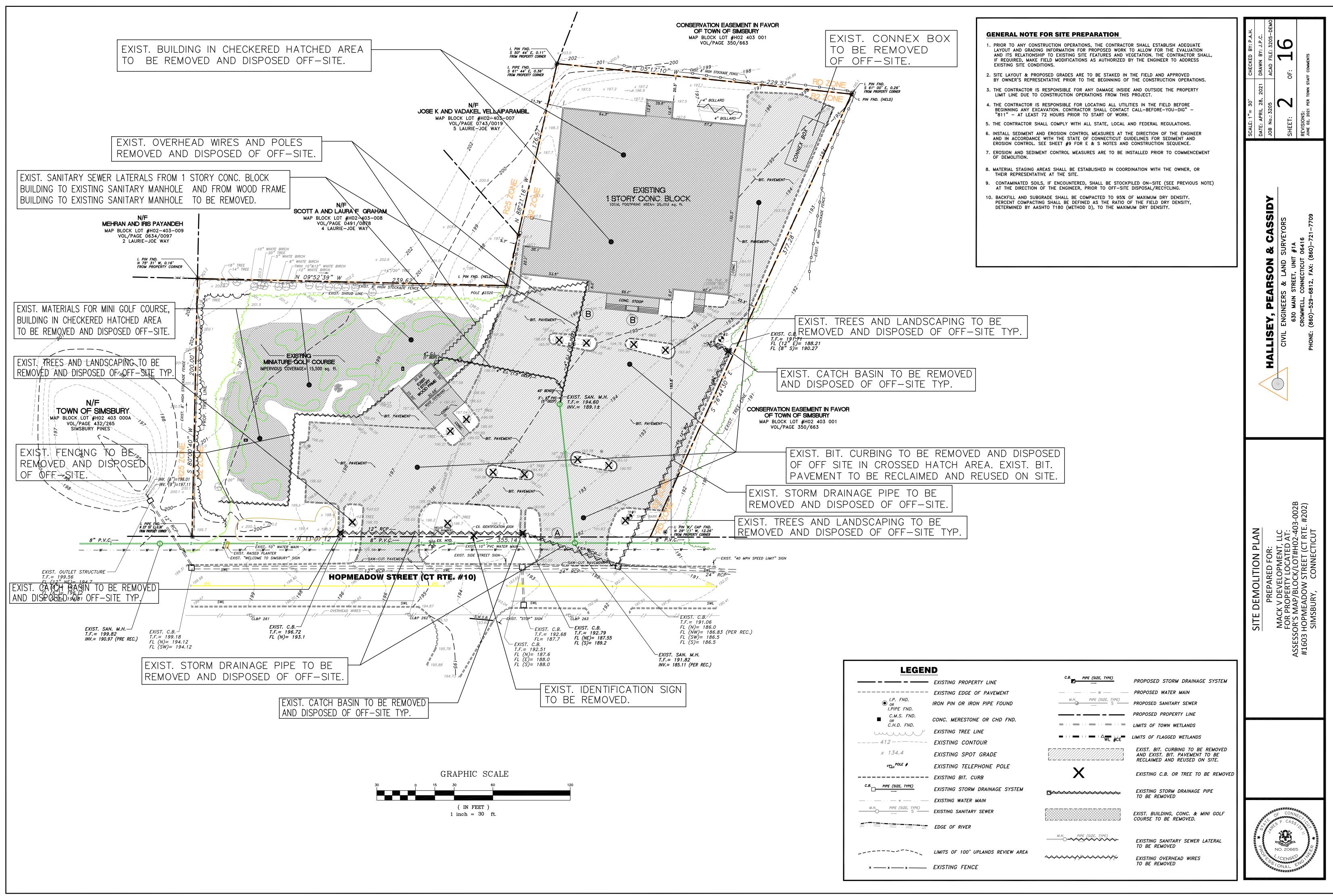
PAUL A. HALLISEY, LS LIC

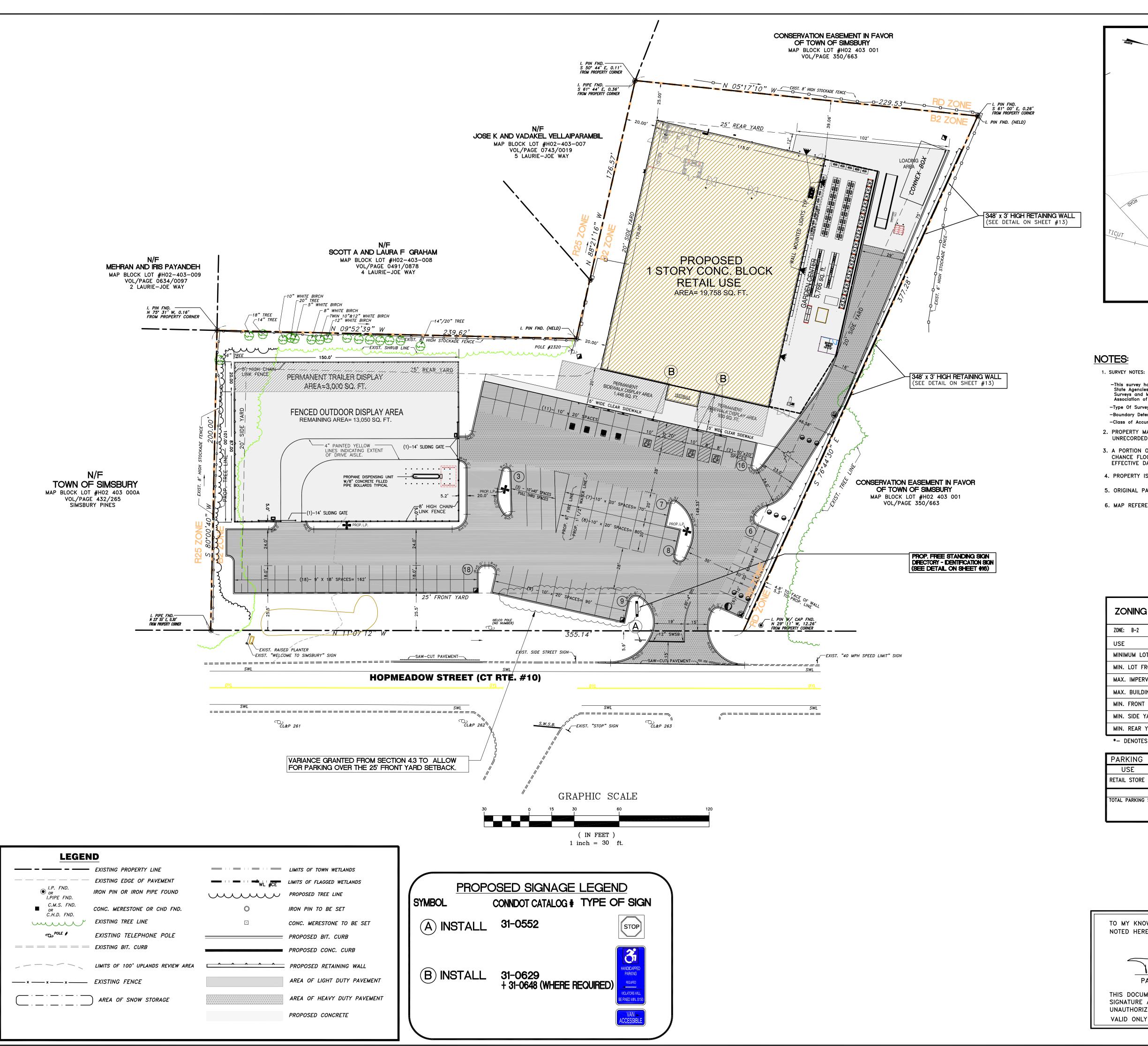
MARCH 09, 2021

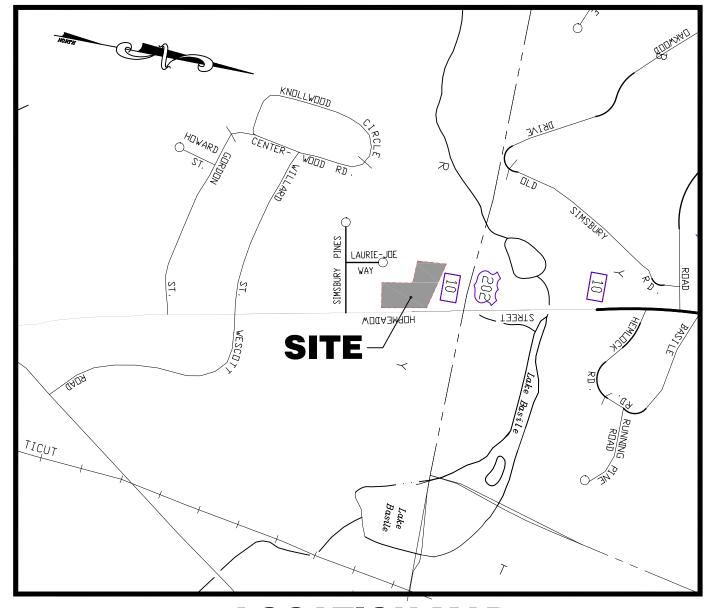
THIS DOCUMENT AND COPIES THEREOF ARE VALID ONLY IF THEY BEAR THE SIGNATURE AND EMBOSSED SEAL OF THE DESIGNATED LICENSED PROFESSIONAL. UNAUTHORIZED ALTERATIONS TO THIS PLAN RENDER THE DECLARATION HEREON NULL AND VOID. VALID ONLY ON MAPS BEARING EMBOSSED SURVEYOR'S SEAL



PROPERTY SHOWING







LOCATION MAP

SCALE: 1"= 1000'

NOTES:

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ZONE: B-2	REQUIRED	EXISTING	PROPOSED
USE		BOWLING ALLIES/MINI-GOLF	RETAIL
MINIMUM LOT AREA	NO MIN.	113,008 sq. ft.	113,008 sq. ft.
MIN. LOT FRONTAGE	N/A	355.14'	355.14'
MAX. IMPERVIOUS COVERAGE	40%	84,199 sq.ft./113,008 sq. ft.= 74.4%*	83,670/113,008= 74.0%
MAX. BUILDING HEIGHT	40'	<40'	20'-8"
MIN. FRONT YARD DEPTH	25'	183.8'	149.33'
MIN. SIDE YARD DEPTH	20'	5.7'* / 22.3'	20.0'/46.58'
MIN. REAR YARD	25'	20.3'*	25.0'

*- DENOTES EXISTING NON-CONFORMING

PARKING DA	TA SCHEDULE:					
USE	REQUIREMENT	REQUIRED				
RETAIL STORE	2.75 SPACES / 500 SQ. FT.	19,800 SQ. FT./(2.75 SPACES/500 SQ. FT.) 108.9 SPACES				
TOTAL REQUIRED= 108.9 SAPCES						
TOTAL PARKING SPA	CES = (59) 10' X 20' SPACES + (3) 10' x 40 PULL-THRU SPACES + (3) HANDICAPPED SPACES TOTAL SPACES PROVIDED = 65 (SPEC	CIAL PERMIT REQUIRED FOR REDUCTION)				

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON:

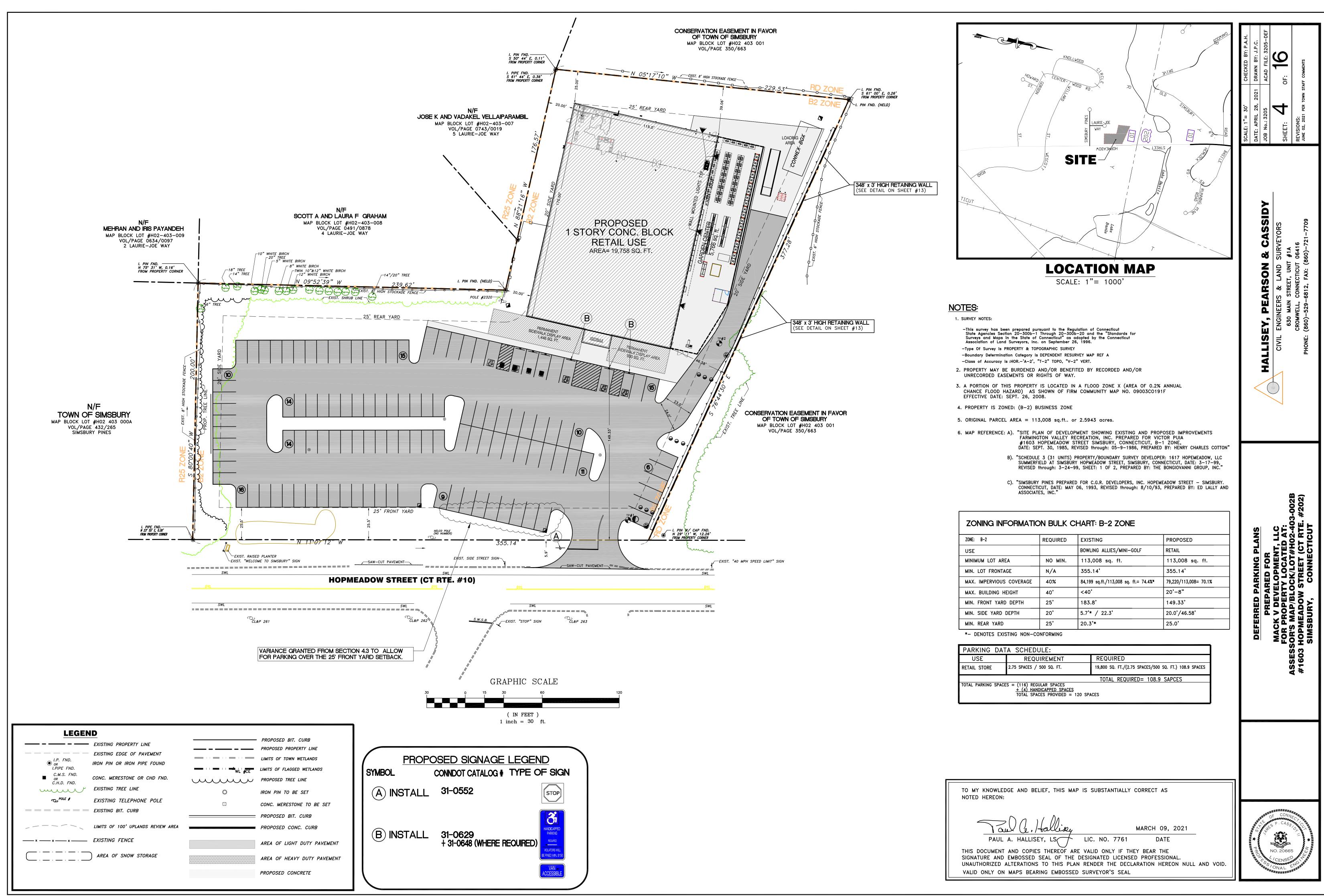


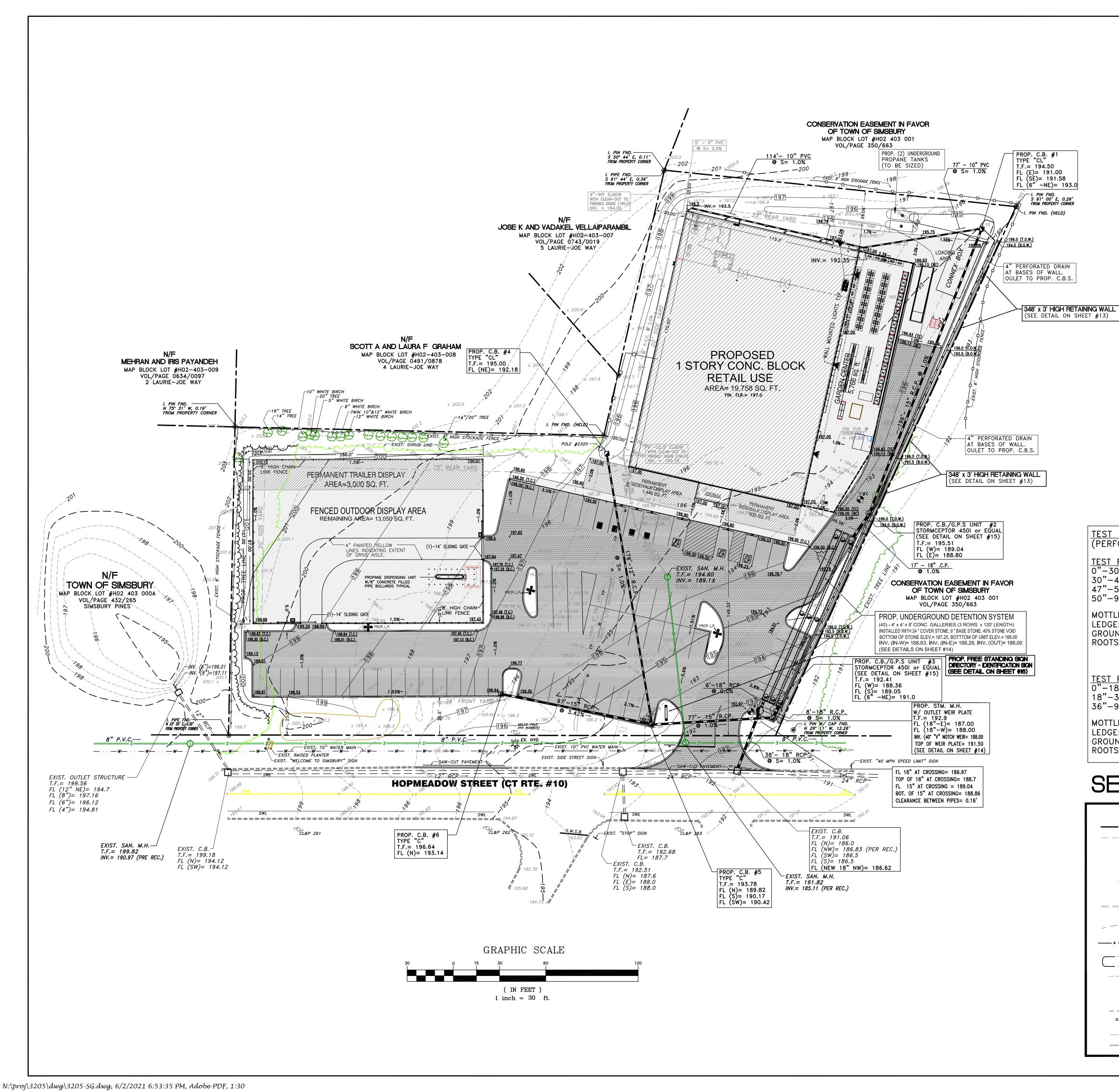
MARCH 09, 2021

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EARSON



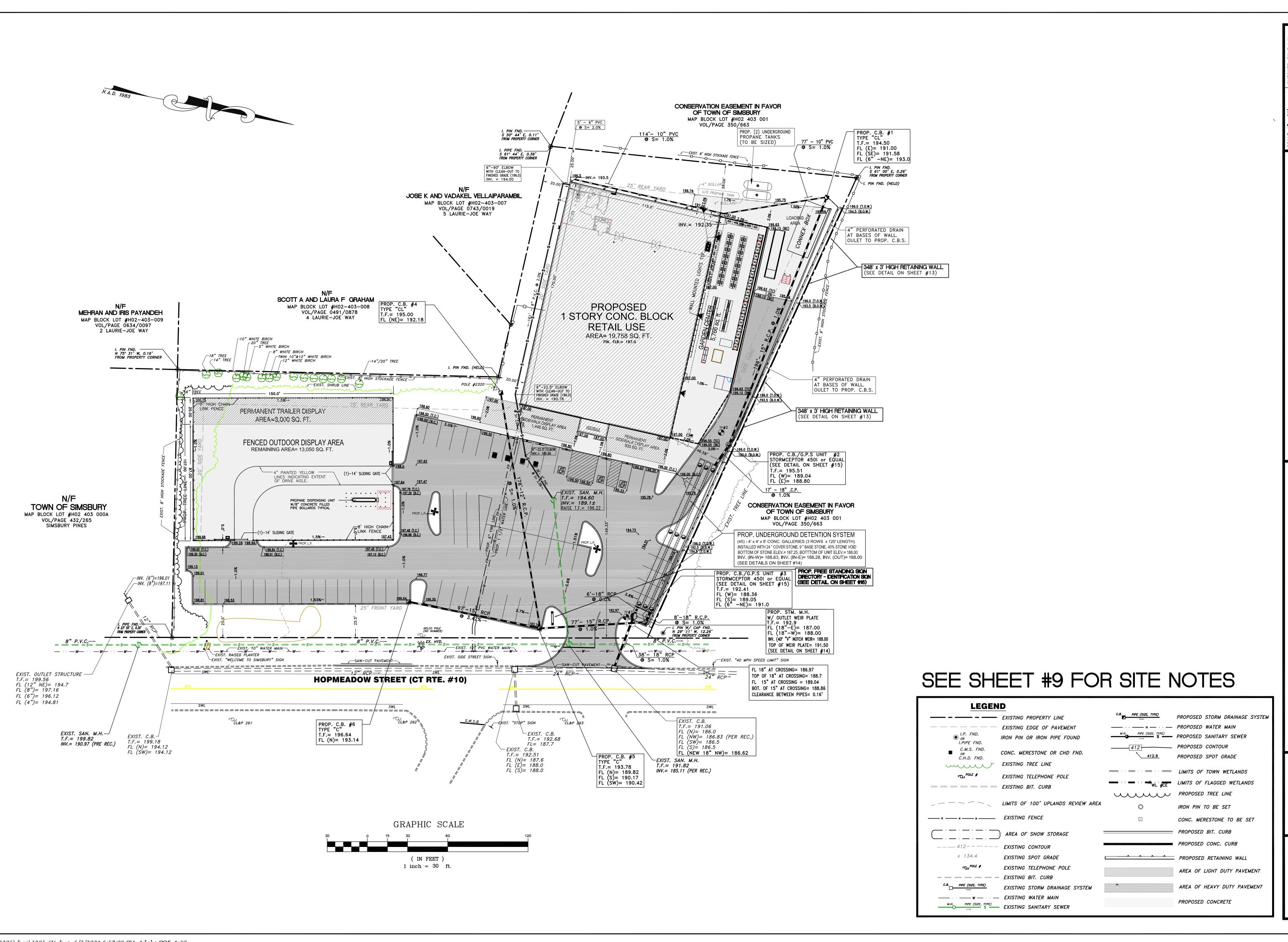


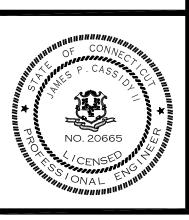
TEST PIT RESULTS DATED: 05/21/21 (PERFORMED & RECORDED BY: James P. Cassidy, P.E. OF HP&C) TEST PIT #1 (EXIST. GROUND ELEV.= 192.3) TOPSOIL AND MIXED FILL 30"-47" LIGHT TAN TO PINKISH FINE SAND 47"-50" DARK BROWN ORGANIC SOIL 50"-92" REDDISH-BROWN MED./COURSE SAND & GRAVEL MOTTLES: NONE OBSERVED LEDGE: NONE ENCOUNTERED GROUNDWATER: ENTERING AT 90" (GROUND WATER ELEV.= 184.8) ROOTS: NONE OBSERVED TEST PIT #2 (EXIST. GROUND ELEV.= 192.5)
0"-18" TOPSOIL & MIXED FILL 18"-36" LIGHT TAN TO PINKISH FINE SAND 36"-96" REDDISH-BROWN MED./COURSE SAND & GRAVEL MOTTLES: NONE OBSERVED LEDGE: NONE ENCOUNTERED GROUNDWATER: ENTERING AT 92" (GOUND WATER ELEV.= 184.8)
ROOTS: NONE OBSERVED

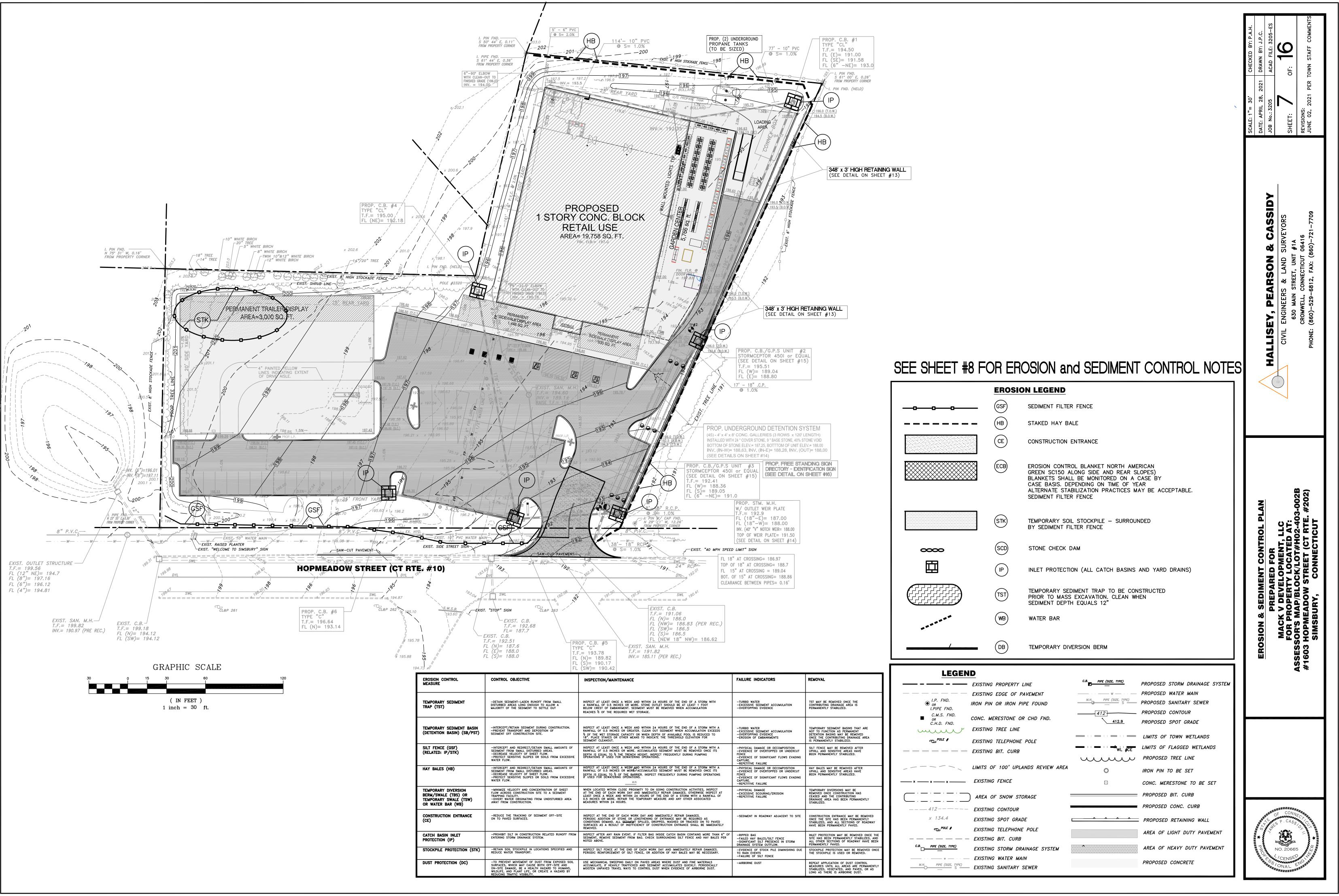
SEE SHEET #9 FOR SITE NOTES

	EXISTING PROPERTY LINE	C.B. PIPE (SIZE, TYPE)	PROPOSED STORM DRAINAGE SYSTEM
	EXISTING EDGE OF PAVEMENT	w · ·	PROPOSED WATER MAIN
I.P. FND. OR I.PIPE FND.	IRON PIN OR IRON PIPE FOUND	M.H. PIPE (SIZE, TYPE)	PROPOSED SANITARY SEWER
C.M.S. FND. or	CONC. MERESTONE OR CHD FND.	412	PROPOSED CONTOUR PROPOSED SPOT GRADE
C.H.D. FND.	EXISTING TREE LINE		THE COLD OF COUNTY
€ POLE #	EXISTING TELEPHONE POLE	— — — — — — — — —	LIMITS OF TOWN WETLANDS LIMITS OF FLAGGED WETLANDS
	EXISTING BIT. CURB		PROPOSED TREE LINE
	LIMITS OF 100' UPLANDS REVIEW AREA	0	IRON PIN TO BE SET
xxx	EXISTING FENCE	•	CONC. MERESTONE TO BE SET
	AREA OF SNOW STORAGE		PROPOSED BIT. CURB
412	EXISTING CONTOUR		PROPOSED CONC. CURB
× 134.4	EXISTING SPOT GRADE		PROPOSED RETAINING WALL
© POLE #	EXISTING TELEPHONE POLE		AREA OF LIGHT DUTY PAVEMENT
	EXISTING BIT. CURB		2. 2 .0 2 0 ,,,, 22
C.B. PIPE (SIZE, TYPE)	EXISTING STORM DRAINAGE SYSTEM	· · · · · · · · · · · · · · · · · · ·	AREA OF HEAVY DUTY PAVEMENT
· · w · · _	- EXISTING WATER MAIN		PROPOSED CONCRETE









EROSION CONTROL NOTES

SEDIMENT & EROSION CONTROL NARRATIVE THE SEDIMENT AND EROSION CONTROL PLAN WAS DEVELOPED TO PROTECT THE EXISTING ROADWAY AND STORM DRAINAGE SYSTEMS, ADJACENT PROPERTIES, AND THE WETLAND AREA FROM SURFACE RUNOFF AND EROSION. A CONSTRUCTION SEQUENCE IS PROVIDED TO PROVIDE SURFACE RUNOFF CONTROLS PRIOR TO THE PROJECT CONSTRUCTION BEGINNING.

CONSTRUCTION SCHEDULE
THE ANTICIPATED STARTING DATE FOR CONSTRUCTION IS JULY 2021 WITH COMPLETION ANTICIPATED NOVEMBER 2021. APPROPRIATE EROSION CONTROL MEASURES AS DESCRIBED HEREIN, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ALL CONSTRUCTION ACTIVITY.

THE CONTRACTOR SHALL INSTALL ALL SPECIFIED EROSION CONTROL MEASURES AND WILL BE REQUIRED TO MAINTAIN THEM IN THEIR INTENDED FUNCTIONING CONDITION. THE AGENTS OF THE DIRECTOR OF PLANNING & DEVELOPMENT, INLAND WETLANDS AGENCY AND/OR SITE ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUPPLEMENTAL MAINTENANCE OR ADDITIONAL MEASURES IF FIELD CONDITIONS ARE ENCOUNTERED BEYOND WHAT WOULD NORMALLY BE ANTICIPATED.

CONSTRUCTION SEQUENCE
THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

- 1. CONTACT TOWN OF SIMSBURY AGENT AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON the PROJECT. A PRE-CONSTRUCTION MEETING WITH LOCAL AND/OR STATE OFFICIALS NEEDS TO BE HELD PRIOR TO THE START OF CONSTRUCTION
- 2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE TOWN OF SIMSBURY AGENT PRIOR TO THE START OF WORK ON THE SITE. INSTALL TREE PROTECTION AND PERIMETER SILT FENCE & HAY BALE SEDIMENT BARRIERS.
- 3. CONSTRUCT TRACKING PADS AT ENTRANCES AND WRAP FILTER FABRIC AROUND GRATE OF CATCH BASINS OR INSTALL SILT SACKS ON CATCH BASIN INLETS ON OFF SITE ROADS. INSTALL SILT FENCE AT PERIMETER OF PROPOSED SITE DISTURBANCE AND INSTALL ALL EROSION CONTROL MEASURES AND TREE PROTECTION INDICATED ON THESE PLANS. INSTALL SEDIMENT TRAPS AND INSTALL SEDIMENT BASINS IN REQUIRED AT LOW AREAS OF SITE OR AS ORDERED BY THE ENGINEER OR AS SHOWN ON
- 4. CLEAR AND GRUB SITE. STOCK PILE CHIPS. STRIP AND STOCKPILE TOPSOIL.
- 5. INSTALL ADDITIONAL SILT FENCE AS REQUIRED, CONSTRUCT TEMPORARY DIVERSION BERMS AND AND SEDIMENT TRAPS.
- 6. CONTINUE EARTHWORK. CONSTRUCT FILL SLOPE. INSTALL ADDITIONAL EROSION CONTROL AS REQUIRED. TOPSOIL AND SEED SLOPES WHICH HAVE ACHIEVED FINAL SITE GRADING.
- 7. CONSTRUCTION STAKING OF ALL BUILDING CORNERS, UTILITIES, ACCESS DRIVES, AND PARKING AREAS.
- 8. ROUGH GRADING.
- 9. INSTALLATION OF STORM DRAINAGE.
- 10. FOUNDATION CONSTRUCTION. BEGIN SUPERSTRUCTURE.
- 11. REMOVE SEDIMENT FROM BEHIND SILT FENCES, AND FROM SEDIMENTATION BASINS AS REQUIRED. REMOVAL SHALL BE ON A PERIODIC BASIS (EVERY SIGNIFICANT RAINFALL). INSPECTION OF EROSION CONTROL MEASURES SHALL BE ON A WEEKLY BASIS. SEDIMENT COLLECTED SHALL BE DEPOSITED AND SPREAD EVENLY UPLAND ON SLOPES DURING CONSTRUCTION.
- 12. INSTALL SANITARY LATERAL, WATER SERVICE AND ALL OTHER UTILITIES. COMPLETE STORM SEWERS.
- 13. INSTALL SITE LIGHTING, LOADING DOCK AND TRASH ENCLOSURE.
- 14. FINISH GRADING AND CONSTRUCT PARKING AREA SUBGRADE.
- 15. CONSTRUCT OUTDOOR DISPLAY AREA AND SIDEWALKS.
- PAVING OF PARKING AREAS AND DRIVEWAYS
- 17. FINAL GRADING OF SLOPE AREAS.
- 18. PLACE 4" TOPSOIL ON SLOPES AFTER FINAL GRADING IS COMPLETED. FERTILIZE SEED AND MULCH. SEED MIXTURE TO BE INSTALLED APRIL 11 TO JUNE 1 OR AUGUST 15 TO OCTOBER 1 USE EROSION CONTROL BLANKETS AS REQUIRED OR ORDERED FOR SLOPES GREATER THAN 3:1. FOR TEMPORARY STABILIZATION BEYOND SEEDING DATES USE ANNUAL RYE AT 4.0 LBS/1,000 S.F. FERTILIZE WITH 10-10-10 AT 1.0 LBS. OF NITROGEN PER 1,000 S.F. AND LIME AT 100 LBS/1,000 S.F. (MAX.).
- 19. CONSTRUCT STORM WATER QUALITY BASIN AND FINAL OUTLET.
- 20. LANDSCAPE ISLANDS AND PERIMETER AREAS. INSTALL SIGNING AND PAVEMENT MARKINGS.
- 21. UPON DIRECTION OF THE TOWN OF SIMSBURY AGENT, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED FOLLOWING STABILIZATION OF THE SITE.

SEQUENCE OF OPERATIONS OPERATION I — CLEARING AND GRUBBING

- 1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES, INCLUDING THE CONSTRUCTION OF THE TEMPORARY SEDIMENT TRAPS AND ANTI-TRACKING PADS, WILL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION
- 2. FOLLOWING INSTALLATION OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES, THE CONTRACTOR SHALL NOT PROCEED WITH OPERATION II UNTIL THE ENGINEER HAS INSPECTED AND APPROVED ALL INSTALLATIONS.
- 3. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING OPERATION I, SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR SEDIMENTATION AND EROSION CONTROL STRUCTURES.

OPERATION II - ROUGH GRADING

- 1. DURING THE REMOVAL AND/OR PLACEMENT OF EARTH AS INDICATED ON THE SITE PLAN, TOPSOIL SHALL BE STRIPPED AND APPROPRIATELY STOCKPILED FOR REUSE.
- 2. ALL STOCKPILED TOPSOIL SHALL BE SEEDED, MULCHED WITH HAY, AND ENCLOSED BY A SILTATION FENCE.

OPERATION III - FILLING

- 1. PRIOR TO FILLING, ALL SEDIMENTATION AND EROSION CONTROL STRUCTURES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE ENGINEER AND AS SHOWN ON the PLAN.
- 2. ALL FILL MATERIAL ADJACENT TO ANY WETLAND AREAS SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTÓR OR AS SPECIFIED IN CONTRACT SPECIFICATIONS.
- 3. AS GENERAL GRADING OPERATIONS PROGRESS, THE TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED, AS NECESSARY, TO DIVERT SURFACE RUNOFF TO THE BASINS.

OPERATION IV - PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND BUILDING CONSTRUCTION.

1. STAKED SILT FENCES SHALL BE INSTALLED AT THE DOWNHILL SIDES OF BUILDING EXCAVATIONS, DEWATERING PUMP DISCHARGES, AND UTILITY TRENCH MATERIAL STOCKPILES.

OPERATION V - FINAL GRADING AND PAVING

- 1. ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS DISCUSSED IN OPERATION IV.
- 2. NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEEDED, AND THE ROAD SHOULDER AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- 3. PAVEMENT BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES HAVE BEEN INSTALLED.
- 4. CONSTRUCT PAVEMENT, PLACE TOPSOIL, FINAL SEED, MULCH AND LANDSCAPING.
- 5. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE HAS BEEN INSPECTED AND APPROVED BY THE TOWN OR GOVERNING WETLAND AGENCY.

SEQUENCE FOR INSTALLATION OF SOIL EROSION

& SEDIMENTATION CONTROL MEASURES

- 1. ERECT SILTATION FENCES, SEDIMENT TRAPS, DIVERSION DITCHES, AND ANTI-TRACKING PAD.
- 2. STRIP TOPSOIL AND STOCKPILE.
- 3. PERFORM CLEARING AND GRUBBING ACTIVITIES, AND DEMOLITION.
- 4. STABILIZE STOCK PILE.

PHASE 2

- 1. INSPECT AND MAINTAIN SEDIMENTATION AND EROSION CONTROL STRUCTURES.

ROUGH GRADING.

- PHASE 3 1. INSPECT AND MAINTAIN SEDIMENTATION AND EROSION CONTROL STRUCTURES.
- 2. PERFORM FILLING ACTIVITIES.

- 1. INSPECT AND MAINTAIN SEDIMENTATION AND EROSION CONTROL STRUCTURES.
- 2. CONSTRUCT DRAINAGE STRUCTURES. CONSTRUCT DIVERSION BERMS, RIP RAPPED LINED DITCHES AND SEDIMENTATION BASINS.

- 1. INSPECT AND MAINTAIN SEDIMENTATION AND EROSION CONTROL STRUCTURES.
- 2. PERFORM FINAL GRADING AND PAVING.

1. INSPECT AND MAINTAIN SEDIMENTATION AND EROSION CONTROL STRUCTURES.

- 2. RESPREAD TOPSOIL. 3. LIME, FERTILIZE, AND SEED.
- 4. MULCH.
- FINAL COVER.

- 1. MAINTAIN SILTATION FENCES UNTIL COVER IS COMPLETELY STABILIZED.
- 2. PERFORM FINAL INSPECTION.
- 3. REMOVE SILTATION FENCES, CLEAN, AND RESTORE ALL AREAS.

INSTALLATION OF SEDIMENTATION AND

D. BACKFILL THE TRENCH AND COMPACT.

<u>EROSION AND SEDIMENT CONTROL PLAN</u>

EROSION CONTROL MEASURES SILTATION FENCE

- A. DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCE LINE LOCATION.
- B. POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND HAMMER THE
- POST AT LEAST 1.5 FEET INTO THE GROUND.
- C. LAY THE BOTTOM SIX INCHES OF THE FABRIC IN THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.

OPERATION AND MAINTENANCE OF SEDIMENTATION AND EROSION CONTROL MEASURES

- SILTATION FENCE A. ALL SILTATION FENCES SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH the PLAN.
- B. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THEY EXCEED A HEIGHT OF ONE FOOT.
- A. CONTRACTOR TO KEEP WEEKLY CHECKLIST LOGS FOR INSPECTIONS OF ALL SEDIMENT AND EROSION CONTROL DEVICES AND HAVE THEM READILY AVAILABLE ON-SITE AT ALL TIMES FOR INSPECTION BY DEEP, LOCAL AUTHORITIES OR ENGINEER.
- B. ALL PONDS SHALL BE INSPECTED FOLLOWING EACH RAINFALL. REPAIR OF SLOPES SHALL BE PROMPTLY MADE AS NEEDED.

SILTATION FENCE WILL BE INSTALLED AT ALL CULVERT OUTLETS AND ALONG THE TOE OF ALL CRITICAL CUT AND FILL

- C. SEDIMENT DEPOSITS SHALL BE REMOVED FROM PONDS WHEN THEY EXCEED A HEIGHT OF ONE FOOT.
- D. SEDIMENT SHALL BE DISPOSED OF ON-SITE OR AS DIRECTED BY THE ENGINEER AND LOCAL GOVERNING OFFICIALS.
- 2. CATCH BASINS WILL BE PROTECTED WITH SILT SACKS OR HAY BALES THROUGHOUT THE CONSTRUCTION PERIOD AND
- UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. 3. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND
- SPECIFICATIONS OF THE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. 4. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO CONSTRUCTION WHENEVER POSSIBLE.
- 5. ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- 6. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF NECESSARY OR REQUIRED.
- 7. SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT
- 8. MACK V DEVELOPMENT, LLC IS THE PERMITEE RESPONSIBLE FOR IMPLEMENTING the EROSION AND SEDIMENT CONTROL PLAN. the RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFICATION OF THE SIMSBURY WETLANDS ENFORCEMENT OFFICER OR GOVERNING AUTHORITY OF THE TRANSFER OF the RESPONSIBILITY AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

- EROSION AND SEDIMENT CONTROL PLAN SEDIMENT AND EROSION CONTROL NOTES

 1. THE DRAWING IS ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL TREATMENT FOR the SITE. SEE SEDIMENT AND EROSION CONTROL DETAILS AND CONSTRUCTION SEQUENCE. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER PLANS FOR APPROPRIATE INFORMATION.
- 2. MACK V DEVELOPMENT, LLC IS THE PERMITEE RESPONSIBLE FOR IMPLEMENTING the SEDIMENT AND EROSION CONTROL PLAN. THE RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND OBJECTIVES OF the PLAN, INFORMING THE GOVERNING AUTHORITY OR INLAND WETLANDS AGENCY OF ANY TRANSFER OF the RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
- 3. THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE TOWN OF SIMSBURY. THE CONTRACTOR SHALL KEEP A COPY OF THE GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION.
- 4. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, TOWN OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAIN A CT DEEP GENERAL PERMIT FOR THE DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 6. THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (SILT FENCE, JUTE MESH, ETC.) ON-SITE FOR MAINTENANCE AND EMERGENCY REPAIRS.
- 7. PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE OR AS SHOWN WITH SNOW FENCE, ORANGE SAFETY FENCE, OR EQUIVALENT FENCING. ANY LIMB TRIMMING SHOULD BE DONE BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- 8. INSTALL PERIMETER SEDIMENT CONTROLS PRIOR TO CLEARING OR CONSTRUCTION. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SILT FENCE UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE FENCE.
- 9. ANTI-TRACKING PADS SHALL BE INSTALLED AT START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.
- 10. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE FOR MORE
- 11. SEDIMENTATION BASINS SHALL PROVIDE 134 CUBIC YARDS OF SEDIMENT STORAGE PER DISTURBED ACRE CONTRIBUTING TO
- THE BASIN. PROVIDE BASIN VOLUMES FOR ALL DISTURBANCE ON SITE. 12. COMPLY WITH REQUIREMENTS OF CGS SECTION 22A, 430B FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES
- 13. MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.
- 14. SILT FENCE AND OTHER SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS PRIOR TO WORK IN ANY UPLAND AREAS.
- 15. EXCAVATED MATERIAL FROM TEMPORARY SEDIMENT TRAPS MUST BE STOCKPILED ON UPHILL SIDE OF SILT FENCE.
- 16. INSTALL SILT FENCE ACCORDING TO MANUFACTURER'S INSTRUCTION, PARTICULARLY, BURY LOWER EDGE OF FABRIC INTO GROUND. SILT FENCE SHALL BE MIRAFI ENVIROFENCE, AMOCO SILT STOP OR EQUIVALENT APPROVED BY SITE ENGINEER. FILTER FABRIC USED SHALL BE MIRAFI 100X OR EQUIVALENT.
- 17. INSTALL TEMPORARY DIVERSION DITCHES, PLUNGE POOLS, SEDIMENT BASINS, SEDIMENT TRAPS AND DEWATERING PITS AS SHOWN AND AS NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION TO CONTROL RUNOFF UNTIL UPHILL AREAS ARE STABILIZED. LOCATION OF TEMPORARY SEDIMENT BASINS WILL REQUIRE REVIEW AND APPROVAL BY THE ENGINEER AND
- 18. DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY PITS, SEDIMENT BASINS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM SEWERS OR SURFACE WATERS FROM
- BLOCK END OF STORM SEWERS IN EXPOSED TRENCHES WITH BOARDS AND SANDBAGS AT THE END OF EACH WORKING DAY 20. SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. OTHER DUST CONTROL MEASURES TO BE USED AS NECESSARY INCLUDES WATERING

19. BLOCK THE OPEN UPSTREAM ENDS OF DETENTION PIPE SYSTEM OUTLET CONTROL ORIFICE UNTIL SITE IS STABILIZED AND

- DOWN DISTÚRBED AREAS, USING CALCIUM CHLORIDE, AND COVERING LOADS ON DUMP TRUCKS. 21. PERIODICALLY CHECK ACCUMULATED SEDIMENT LEVELS IN THE SEDIMENT TRAPS DURING CONSTRUCTION AND CLEAN ACCUMULATED SILT WHEN NECESSARY OR WHEN ONE FOOT OF SEDIMENT HAS ACCUMULATED. CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN SUMPS AS NECESSARY. REMOVE ACCUMULATED SEDIMENT FROM BEHIND SILT FENCE WHEN LEVEL REACHES HALF THE HEIGHT OF THE FENCE. DISPOSE OF SEDIMENT LEGALLY EITHER ON SITE IN NON-WETLANDS AREAS.
- 22. MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PARKING LOT AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS
- 23. THE PARTY RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROL MEASURES IS: MACK V DEVELOPMENT, LLC 93 NORTH MAIN STREET WEST HARTFORD, CT 06107

PHONE: 860-319-7914

AND WITH DEEP RECORD KEEPING AND INSPECTION REQUIREMENTS

24. IF WIND EROSION OCCURS, THEN GROUND SHALL BE COVERED WITH CALCIUM CHLORIDE OR WATER TRACK APPLICATIONS AS REQUIRED TO CORRECT THE PROBLEM.

SITE PLAN NOTES

- 1 ALL CONSTRUCTION SHALL COMPLY WITH. TOWN OF SIMSBURY STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- 2. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL TOWN CONSTRUCTION PERMITS, INCLUDING DOT PERMITS AND SEWER AND WATER CONNECTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 3. REFER TO OTHER PLANS, DETAILS AND NOTES FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE SITE ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFORMED WITH THE LOCAL CONSTRUCTION MANAGER PRIOR TO BIDDING.
- 4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS AND PLAN SPECIFICATIONS TO THE OWNER AND SITE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- 5. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION CONTROL PLAN.
- 6. THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, OUTSIDE DISPLAY AREA, AND THE RAISED CONCRETE SIDEWALKS AND RAMPS.
- 7. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- 8. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN
- 9. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OR PAVING UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
- 10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS. FENCES, TRAFFIC CONTROLLERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED, ORDERED BY THE ENGINEER OR REQUIRED BY THE LOCAL GOVERNING AUTHORITIES.
- 11. REFER TO DETAIL SHEETS FOR PAVEMENT, CURBING, AND SIDEWALK INFORMATION. 12. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE
- INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED. 13. THE CONTRACTOR SHALL ABIDE BY ALL OSHA FEDERAL STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY
- UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.

14. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PAINT MIXTURE PRIOR TO STRIPING.

4" BROKEN WHITE LINE 10' STRIPE 30' SPACE

- 15. PAVEMENT MARKING KEY:
- 4' SOLID YELLOW DOUBLE LINE 4' SOLID YELLOW LINE
- 4" SOLID WHITE LINE 4" SWL 12" SOLID WHITE STOP BAR 12" SWSB
- 16. PARKING SPACES SHALL BE STRIPED WITH 4" SWL; HATCHED AREA SHALL BE STRIPED WITH 4' SWL AT A 45' ANGLE, 2' ON CENTER. HATCHING SYMBOLS, AND STRIPING
- FOR HANDICAPPED SPACES SHALL BE PAINTED BLUE. OTHER MARKINGS SHALL BE PAINTED WHITE OR AS NOTED. 17. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING
- CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE ENGINEER.
- 18. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION. 19. THE ARCHITECT OR ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- 20. THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS..
- 21. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, SITE ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
- 22. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "1(800)922-4455" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
- 23. PAVEMENT MARKINGS SHALL BE HOT APPLIED TYPE IN ACCORDANCE WITH CT DOT SPECIFICATIONS, UNLESS WHERE EPOXY RESIGN PAVEMENT MARKINGS ARE INDICATED.
- 24. CT DOT ENCROACHMENT PERMIT SHALL BE OBTAINED BY CONTRACTOR WHO SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC PROTECTION NECESSARY FOR THE WORK.
- 25. AN EROSION CONTROL BOND IS REQUIRED TO BE POSTED BY THE CONTRACTOR BEFORE THE START OF ANY ACTIVITY ON OR OFF SITE.
- 26. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
- 29. THE SITE IS PROPOSED TO BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER SYSTEM.
- 30. PROPERTY SHOWN ON F.I.R.M. NO. 0900470004B. DATED: JUNE 15, 1982. NO DIGITAL DATA AVAILABLE. THE PORTION OF THIS PROPORTY THAT IS BEING DEVELOPED IS IN A FLOOD ZONE "C".
- 31. 12" SWSB (STOP BAR) AND 4" SYDL AND SWL PAVEMENT MARKINGS LOCATED IN DRIVEWAYS AND IN STATE HIGHWAY SHALL BE EPOXY RESIN TYPE ACCORDING TO CT DOT
- 32. FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN FIRE MARSHAL.
- 33. THE APPLICANT WILL PROVIDE AND MAINTAIN ADEQUATE SIGHT DISTANCES AT ALL DRIVEWAY INTERSECTIONS. CURRENT STATE OF CONNECTICUT HIGHWAY DESIGN STANDARDS WILL APPLY TO REQUIRED SIGHT DISTANCES.
- 34. THE APPLICANT WILL REGISTER BUILDING ALARMS PER TOWN ORDINANCE.
- 35. THE APPLICANT WILL CONTROL DUST AND DEBRIS ON THE SURROUNDING ROADWAYS DURING CONSTRUCTION. PROPER SAFETY PRECAUTIONS AND EQUIPMENT ARE TO BE UTILIZED WHEN WORKING ON PUBLIC ROADWAYS AND ARE THE APPLICANT'S RESPONSIBILITY TO PROVIDE.
- 36. THE APPLICANT WILL OBTAIN A CONNECTICUT DEPARTMENT OF TRANSPORTATION ENCROACHMENT PERMIT FOR ANY WORK DONE IN THE STATE RIGHT OF WAY.
- 37. THE APPLICANT MUST COMPLY WITH CONNECTICUT DEPARTMENT OF TRANSPORTATION STIPULATIONS/REGULATIONS WHEN APPLICABLE.
- 38. ALL DISTURBED PAVEMENT MARKINGS MUST BE REPLACED WITH EPOXY PAINT.

GRADING AND DRAINAGE NOTES

GRADING GENERAL NOTES:

- 1. SEE THIS PLAN SHEET FOR ADDITIONAL SITE PLAN AND GENERAL NOTES.
- 2. THE GRADING AND DRAINAGE PLAN IS INTENDED TO DESCRIBE GRADING AND DRAINAGE ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, AND DETAIL SHEETS FOR DETAILS. SEE MEP DRAWINGS FOR BUILDING CONNECTION LOCATIONS AND DETAILS.
- 3. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND NOTES.
- 4. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY GOVERNMENT AND LOCAL AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE LOCAL MUNICIPALITIES REQUIRED TO PERFORM ALL REQUIRED WORK, INCLUDING FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS FENCES AND UNIFORMED TRAFFIC CONTROLLERS AS REQUIRED, ORDERED BY THE ENGINEER OR REQUIRED BY THE STATE AND LOCAL
- 7. THE CONTRACTOR SHALL COMPACT FILL IN 12" MAXIMUM LIFTS UNDER ALL PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 8. UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE DESIGN OR TOWN
- ENGINEER AFTER SUBGRADE IS ROUGH GRADED, AS APPROVED BY THE LITCHFIELD TOWN STAFF. 9. VERTICAL DATUM IS NVGD 1988.
- 10. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE TOWN OF SIMSBURY AGENT PRIOR TO THE START OF WORK ON THE SITE.
- 11. PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR WETLANDS IN ACCORDANCE WITH THE REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION GUIDELINES FOR SOIL EROSION AND SEDIMENT POLLUTION CONTROL. IN ADDITION, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE "EROSION CONTROL PLAN" CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALI BONDS AS REQUIRED BY THE LOCAL MUNICIPALITIES, OR SOIL CONSERVATION SERVICE WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
- 12. ALL SITE WORK, MATERIALS OR CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK STORM DRAINAGE AND UTILITY WORK SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION UNITESS OTHERWISE STATED IN THE PROJECT MANUAL SPECIFICATIONS. ALL FILL MATERIALS UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE DOT, UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN 12" LIFTS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT 3 + /- PERCENT OF OPTIMUM MOISTURE CONTENT.
- 13. ALL DISTURBANCE INCURRED TO TOWN OR STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OF LITCHFIELD AUTHORITY AND STATE OF CONNECTICUT.
- 14. ALL CONSTRUCTION SHALL COMPLY WITH TRACTOR SUPPLY COMPANY'S AND THE LOCAL MUNICIPALITY'S STANDARDS AND STATE OF CONNECTICUT'S DOT SPECIFICATIONS. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS. WHERE SPECIFICATIONS OR STANDARDS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION OR STANDARD SHALL BE SUPERIOR.
- 1. SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF MATERIALS AND STRUCTURES FOR REVIEW AND APPROVAL PRIOR TO DELIVERY TO THE SITE. ALLOW 14 WORKING DAYS FOR REVIEW.
- 2. POLY VINYL CHLORIDE PIPE (PVCP) FOR STORM AND SANITARY PIPING SHALL HAVE BUILT-IN RUBBER GASKET JOINTS. PVCP SHALL CONFORM TO ASTM D-3034 (SDR35) WITH COMPRESSION JOINTS AND MOLDED FITTINGS. PVCP SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS; ASTM-D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- 3. ALL RCP SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-76; ALL RCP SHALL BE CLASS IV UNLESS OTHERWISE SHOWN. JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-443.
- 4. MANHOLE SECTIONS AND CONSTRUCTION SHALL CONFORM TO ASTM C-478.
- 5. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER 12" OR GREATER IN DIAMETER SHALL BE HI-Q SURE-LOK 10.8 PIPE AS MANUFACTURED BY HANCOR INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF ASSHTO M294. TYPE PIPE SECTIONS SHALL BE JOINED WITH BELL-AND-SPIGOT JOINT MEETING THE REQUIREMENTS OF AASHTOS M294. THE BELL SHALL BE AN INTEGRAL PART OF THE PIPE AND PROVIDE A MINIMUM PULL-APART STRENGTH OF 400 POUNDS. THE JOINT SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212. GASKETS SHALL BE MADE OF POLYISOPRENE MEETING THE REQUIREMENTS OF ASTM F477. ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER PRIOR
- 6. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE HI-Q PIPE AS MANUFACTURED BY HANCOR INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO 252, TYPE S. PIPE SECTIONS SHALL BE JOINED WITH COUPLING BANDS OR EXTERNAL SNAP COUPLERS COVERING AT LEAST 2 FULL CORRUGATIONS ON EACH END OF THE PIPE. SILT-TIGHT (GASKET) CONNECTIONS SHALL INCORPORATE A CLOSED SYNTHETIC EXPANDED RUBBER GASKET. MEETING THE REQUIREMENTS OF AASHTO D1056 GRADE 2A2. GASKETS SHALL BE INSTALLED ON THE CONNECTION BY THE PIPE MANUFACTURER. ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER PRIOR TO ORDERING.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE SITE ENGINEER AND ARCHITECT IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS.
- 2. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY
- 3. THE CONTRACTOR SHALL ABIDE BY ALL OSHA FEDERAL STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
- 5. THE ARCHITECT OR ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- 6. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "1-(800)-922-4455" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
- 7. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN OVER SCALED DIMENSIONS.
- 8. IF PLANS AND OR SPECIFICATIONS ARE IN CONFLICT, THE MOST EFFECTIVE SHALL APPLY AS DETERMINED BY A LICENSED PROFESSIONAL AND APPROVED BY TOWN STAFF.
- 9. ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN COMPLETE DRAWING PLAN SETS FOR BIDDING AND CONSTRUCTION. PLAN SETS SHALL NOT BE DISASSEMBLED INTO PARTIAL PLAN SETS FOR USE BY CONTRACTORS AND SUBCONTRACTORS OF INDIVIDUAL TRADES. IT SHALL BE THE CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO OBTAIN COMPLETE PLAN SETS FOR USE IN BIDDING AND CONSTRUCTION.
- 10. ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" APPLY TO ALL LIKE OR SIMILAR CONDITIONS
- 11. CONTRACTOR'S TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
- 12. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.

UTILITIES NOTES

WATER & SEWER DEPARTMENT.

- UTILITY CONSTRUCTION NOTES:
- 1. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL MUNICIPALITIES TO SECURE PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
- 2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS FENCES AND UNIFORMED TRAFFIC CONTROLLERS AS REQUIRED, ORDERED BY THE ENGINEER OR REQUIRED BY THE LOCAL GOVERNING AUTHORITIES.
- 3. THIS PLAN DETAILS SITE INSTALLED PIPES UP TO 5' FROM THE BUILDING FACE. REFER TO DRAWINGS BY OTHERS FOR BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT.
- 4. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO REGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE SEWERS CROSS LITHITIES AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE LITHITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE SITE ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION
- 5. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY CO. AND TOWN STAFF REVIEW.
- 6. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY COMPANIES AND TOWN STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER, TOWN OF LITCHFIELD PUBLIC WORKS DEPARTMENT AND TOWN OF LITCHFIELD
- 7. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTION, REALLOCATIONS, INSPECTIONS, AND DEMOLITION.
- 8. ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED THE SITE CONTRACTOR SHALL INSTALL TEMPORARY OR PERMANENT PAVEMENT
- REPAIR AS DETAILED ON THE PLANS OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. 9. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER
- 10. SANITARY LATERAL SHALL MAINTAIN (10' MIN. HORIZONTAL 1.5' VERTICAL MIN.) SEPARATION DISTANCE FROM WATER LINES, OR ADDITIONAL PROTECTION MEASURES WILL BE REQUIRED WHERE PERMITTED.
- 11. RELOCATION OF UTILITY COMPANY FACILITIES SUCH AS POLES, TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FACILITY OWNERS.
- 12. THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 12" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED IN AREAS OF ROCK EXCAVATION. STORM SEWERS MAY BE PLACED PRIOR TO PLACING FILL.
- 13. CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS FOR UTILITY CONNECTIONS.
- 14. UTILITY PENETRATIONS AND LOCATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE MEP DRAWINGS AND CONSTRUCTION MANAGER.
- 15. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN
- ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY AND/OR THE LOCAL MUNICIPALITIES' REQUIREMENTS. 16. A ONE-FOOT MINIMUM CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM SEWERS SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM AND SANITARY SEWER WITH A CONCRETE ENCASEMENT.
- 17. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM
- 18. MANHOLE RIMS SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND VALVE COVERS TO BE RAISED OR LOWERED FLUSH WITH FINAL GRADE AS NECESSARY.
- 19. SITE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND CABLES FOR SITE LIGHTING WITH THE BUILDING ELECTRICIAN/ELECTRICAL CONTRACTOR.
- 20. CONTRACTOR SHALL COORDINATE INSTALLATION FOR ELECTRICAL SERVICES TO PYLON SIGNS AND SITE LIGHTING WITH THE BUILDING ELECTRICIAL/ELECTRICAL CONTRACTOR.
- 21. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION, TO THEIR ORIGINAL CONDITION OR BETTER.
- 22. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. CONTACT "CALL BEFORE YOU DIG" AT 1-(800)-922-4455 72 HOURS PRIOR TO CONSTRUCTION AND VERIFY ALL UNDERGROUND AN OVERHEAD UTILITY LOCATIONS.
- 23. THE CONTRACTOR SHALL ARRANGE AND COORDINATE WITH UTILITY COMPANIES AND THE TOWN OF LITCHFIELD FOR WORK TO BE PERFORMED BY UTILITY COMPANIES OR BY THE TOWN OF LITCHFIELD. THE CONTRACTOR SHALL PAY ALL UTILITY FEES AND REPAIR PAVEMENTS AS NECESSARY.
- 24. ELECTRIC, AND TELEPHONE SERVICES SHALL BE INSTALLED UNDERGROUND FROM SERVICE POLE CL&P #1543. THE CONTRACTOR SHALL INSTALL AND BACKFILL TWO 4" PVC CONDUITS FOR TELEPHONE SERVICE, FOUR 4" PVC CONDUITS FOR ELECTRIC SERVICE PRIMARY, PVC CONDUITS FOR ELECTRICAL SECONDARY PER BUILDING ELECTRICAL PLANS (SCHEDULE 80N UNDER PAVEMENT, SCHEDULE 40 IN NON PAVEMENT AREAS). SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 1" CLEAR SPACE BETWEEN. MINIMUM COVER IS 36" ON ELECTRIC CONDUITS, AND 24" ON TELEPHONE CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE AND SHALL BE BEDDED, INSTALLED, AND BACKFILLED IN ACCORDANCE WITH ELECTRIC COMPANY, AND PHONE COMPANY STANDARDS. GALVANIZED STEEL ELECTRICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HANDHOLES AS REQUIRED. INSTALL CONCRETE ENCASEMENT ON PRIMARY ELECTRIC CONDUITS IF REQUIRED BY ELECTRIC COMPANY.
- 25. ALL WATER LINES TO HAVE A MINIMUM COVER OF 54-INCHES. ALL LINES SHALL BE BEDDED IN 6" SAND AND BACKFILLED WITH 12" SAND.
- 26. ALL WATER MAINS, WATER SERVICES AND SANITARY SEWER LATERAL SHALL CONFORM TO THE DEPARTMENT OF ENVIRONMENTAL HEALTH. APPLICABLE TOWN OF LITCHFIELD WATER & SEWER DEPARTMENT SPECIFICATIONS, AS WELL AS TO OTHER APPLICABLE CODES AND SPECIFICATIONS FOR POTABLE WATER SYSTEMS.
- 27. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, UTILITY PROVIDER AND APPROPRIATE REGULATORY AGENCIES PRIOR TO
- 28. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY CONNECTIONS TO EXISTING ABUTTING HOUSES & COMMERCIAL BUILDINGS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNERS, THE PROJECT ENGINEER, UTILITY PROVIDER AND GOVERNING AUTHORITIES.
- 29. ANY EXISTING POTABLE WATER WELLS AND SEPTIC TANKS/ABSORPTION AREAS SHALL BE ABANDONED AND REMOVED PER THE DEPARTMENT OR ENVIRONMENTAL PROTECTION AND HEALTH CODE REQUIREMENTS.
- 30. THE CONTRACTOR MAY SUBSTITUTE MASONRY STRUCTURES FOR PRECAST STRUCTURES IF APPROVED BY THE SITE ENGINEER AND ALLOWED BY THE TOWN ENGINEER OR BY GOVERNING AUTHORITY.
- review of building submittals and in accordance with the FCC policy. 32. All materials used for the installation and testing of the sanitary sewers and laterals within the Town of Simsbury

31. Under the WPCA Facility Connection Charge (FCC) policy, a FCC will not be required. This was determined upon

- shall meet all Simsbury WPCA specifications. 33. Disconnect Permits will be required for the removal of the existing sanitary sewer connections. Lines will be capped and sealed as close as possible to the main sanitary sewer line or manhole.
- 34. A connection permit will be required for the new sanitary sewer connection
- 35. Manhole frames and covers shall meet Town of Simsbury specifications.

POST CONSTRUCTION STORM WATER POLLUTION PLAN

RESPONSIBLE PARTIES AND STORMWATER MANAGEMENT SYSTEM OWNER: MACK V DEVELOPMENT, LLC 93 NORTH MAIN STREET WEST HARTFORD, CT 06107

-REMOVING PAPER AND DEBRIS FROM INSIDE THE BASIN.

PHONE: 860-319-7914

THE FOLLOWING PROCEDURES WILL BE IMPLEMENTED CONTINUALLY BY THE OWNER:

- 1. PAVEMENT SWEEPING: PARKING LOTS AND DRIVES SHALL BE SWEPT A MINIMUM OF TWICE A YEAR (SPRING AND FALL) 2. CATCH BASINS: CATCH BASINS SHALL BE INSPECTED ON A REGULAR BASIS (AT LEAST TWICE PER YEAR) AND ANY
- SEDIMENT, OILS & FLOATABLES WILL BE REMOVED AS NECESSARY (A MINIMUM OF ONCE A YEAR TO ENSURE FUNCTIONING OF THE SYSTEM, UTILIZING A VACUUM TRUCK) 3. THE COLLECTION SYSTEM PIPES SHALL BE AT SIX-MONTH INTERVALS. REGULAR MAINTENANCE INCLUDES THE FOLLOWING
- -INSPECTION OF THE OUTLET TO ENSURE THEY ARE NOT BLOCKED. -CHECKING THE OUTLETS FROM THE DRAINAGE SYSTEM IS CLEAR AND NOT ERODING.
- 4. Underground Infiltration System: The following are the inspection and maintenance practices that
- will be used to maintain the unground roof leader infiltration systems. • The underground infiltration systems will be monitored for a 2 year period by Jim Cassidy, P.E. or a qualified profession engineer. The monitoring will address that the infiltration system is functioning properly. The monitoring report will make recommendations on any remedial measures needed in any. Monitoring results will be sent to the Town of Simsbury Engineeering Department annually.
- FIRST YEAR MONITORING: The Infiltration System shall be inspected by Jim Cassidy, P.E. or by a qualified professional engineer on the day following a rain event over 1.0 inches during the year following
- construction. A brief report that the infiltration system has been inspected and appears to comply with the specification will be provided to the Town of Simsbury Engineering Dept. If problems are noted, a report shall be provided to the Town of Simsbury Engineering Dept. on mitigation measures that will be required.
- LONG TERM MAINTENANCE SCHEDULE: o Regular inspection and maintenance are essential to assure a properly functioning stormwater system. Inspection is easily accomplished through the inspection ports (manhole covers). Inspection ports can allow inspection to be accomplished completely from the surface without the need for a confined space entry. Inspection ports provide visual access to the system with the use of a flashlight. A stadia rod may be inserted to determine the depth of sediment. If upon visual inspection it is found that sediment has accumulated to an average depth exceeding 3",

cleanout is required. Once in normal service, the Undergoung Infiltration System should be inspected bi-annually.

- 5. STORMWATER QUALITY BASIN SLOPES SHALL BE MOWED ONCE A YEAR. MORE FREQUENT MOWING WILL ELIMINATE NATIVE FORBS SEDGES FROM THE MEADOW COVER.
- 6. LANDSCAPING: LANDSCAPED AREAS WILL BE MAINTAINED. NORMAL LANDSCAPING MAINTENANCE WILL CONSIST OF PRUNING, MULCHING, PLANTING MOWING LAWNS, RAKING LEAVES, ECT.. USE OF FERTILIZERS AND PESTICIDE WILL BE CONTROLLED AND LIMITED TO MINIMAL AMOUNTS NECESSARY FOR HEALTHY LANDSCAPE MAINTENANCE. THE LAWN AREAS, ONCE ESTABLISHED, WILL BE MAINTAINED AT A TYPICAL HEIGHT OF 3 1/2". THIS WILL ALLOW THE THE GRASS TO BE MAINTAINED WITH A MINIMAL IMPACT FROM WEEDS AND/OR PEST. THE REAR (EASTERLY) SLOPE AREAS WILL BE MAINTAINED AS A MEADOW OR ALLOWED TO REVERT BACK TO WOODLANDS. PESTICIDE WILL ONLY BE USED AS A CONTROL METHOD WHEN A PROBLEM HAS BEEN IDENTIFIED AND OTHER NATURAL CONTROL METHODS ARE NOT SUCCESSFUL. ALL PESTICIDE APPLICATION SHALL BE BY LICENSED APPLICATORS, WHERE NECESSARY. TOPSOIL, BRUSH, LEAVES, CHIPPINGS, MULCH, EQUIPMENT, AND OTHER MATERIALS SHALL BE STORED OFF SITE.
- 7. MAINTAIN EXISTING NATIVE VEGETATION: EXISTING VEGETATION ALONG THE EASTERLY EDGE OF THE DEVELOPMENT, ADJACENT TO THE WETLANDS SHALL REMAIN IN ITS NATIVE CONDITIONS NO CLEARING, GRADING, STOCKPILING, STORAGE, OR
- DEVELOPMENT WILL OCCUR IN THESE AREAS WITHOUT PRIOR APPROVAL FROM THE APPROPRIATE AGENCIES. 8. TRASH COLLECTION: ALL TRASH WILL BE CONTAINED IN DUMPSTERS. ALL DUMPSTERS WILL BE EQUIPPED WITH COVERS. ALL TRASH WILL BE COLLECTED ON A REGULAR BASIS AND DISPOSED OF LEGALLY OFF-SITE.
- 9. OUTDOOR STORAGE: THERE WILL BE NO OUTDOOR OF HAZARDOUS CHEMICALS, FERTILIZER, PESTICIDES, OR
- 10. THE OWNER SHALL BE KEEP AN ON-SITE LOG OF STORMWATER MAINTENANCE MEASURES PERFORMED AND DATES THEY WERE IMPLEMENTED. THIS LOG BOOK SHALL BE AVAILABLE FOR THE TOWN OF SIMSBURY INSPECTION.

STORMWATER SYSTEM MAINTENANCE

HERBICIDE'S ANYWHERE AT THE FACILITY.

The site will be maintained in a clean condition at all times by implementing good housekeeping measures. Trash and surface debris will be removed from parking areas and stormwater structures. The site will be regularly cleaned of trash and debris. Stormwater structures (i.e., catch basins, stormwater quality basin, bio retention swales, underground infiltration systems, and level spreader, etc.) and outfalls will be cleaned of sediment and debris at least once a year, during the early month in the spring (once snow melt is complete) and at other times as necessary to prevent the off-site discharge of pollutants from the structures or outfalls. Special attention will be directed to the stormwater management basin identified on the site engineering drawings.

evidence of erosion, etc.

Stormwater Management Structures Checked for... Accumulated sediment & debris Catch Basins Underground Detention System Accumulated sediments, debris,

SWEEPING SCHEDULE

All parking areas, sidewalks, loading areas and driveways will be swept as needed, with automatic air sweeping and vacuuming equipment

Yard Maintenance

- After irrigation, mowing is the most important maintenance operation. With good mowing practices, density, texture, color, root development, wear tolerance and other aspects of turf quality are enhanced, and a healthy turf minimizes the need for use of fertilizers and pesticides.
- When the turf is mowed too closely, it becomes less tolerant of environmental stresses, more disease prone, and more dependent upon a carefully implemented cultural program. The best approach then, is to use a high mowing height.
- Anytime that grass is in a weakened condition, the mowing height will be raised immediately.
- Growth rate and mowing height have the most influence on mowing frequency. As a rule of thumb, mowing should be done often enough that no more than 30 percent of the leaf is removed at any one mowing. This practice minimizes the effect of mowing on photosynthesis and helps maintain a high percentage of leaf surface, which is necessary for healthy root development.
- Varied mowing patterns on all surfaces encourage upright growth and reduce wheel or mower wear and compaction.
- Research has shown that returning grass clippings to the surface does not greatly increase thatch building up on turf that is otherwise properly managed. Clippings do have significant nutrient value and decompose rapidly thus returning some fertilizer and organic matter to the soil. They also help conserve moisture and insulate the soil

State of Connecticut Department of Transportation - 817 CONSTRUCTION NOTES 817 CONSTRUCTION NOTES

Removal of pavement markings along state roadways shall be completed by a non-destructive method in compliance with the State of Connecticut Department of Transportation Standard Specifications for Road, Bridges, and Incidental Construction Form 817 Section 12.11 as

New pavement markings shall be painted with epoxy resin paint in compliance with the State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges, and Incidental Construction Form 817 Section 12.10 as revised.

New sign material and sheeting shall be made of reflective material in compliance with State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges, and Incidental Construction Form 817 Section 12.08 as revised. Type 1 Reflective Sheeting shall be used for signs with white background, Type 3 Reflective Sheeting shall be used for signs with colored background except for signs with red background that shall be Type 8 or 9 Reflective Sheeting.

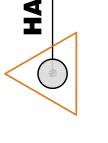
All signs and pavement markings installed along the state road must conform to the "Manual on Uniform Traffic Control Devices," the latest State of Connecticut Catalog of Signs and standard as revised.

Any damage to the existing curb, sidewalk or any other highway appurtenances during the development of the permitted site will be replaced by the contractor as directed by the District 3 Permit Section at no cost to the state.

Bridges and Incidental Construction Form 817 with the latest Special Provisions and Typical State Standard Details.

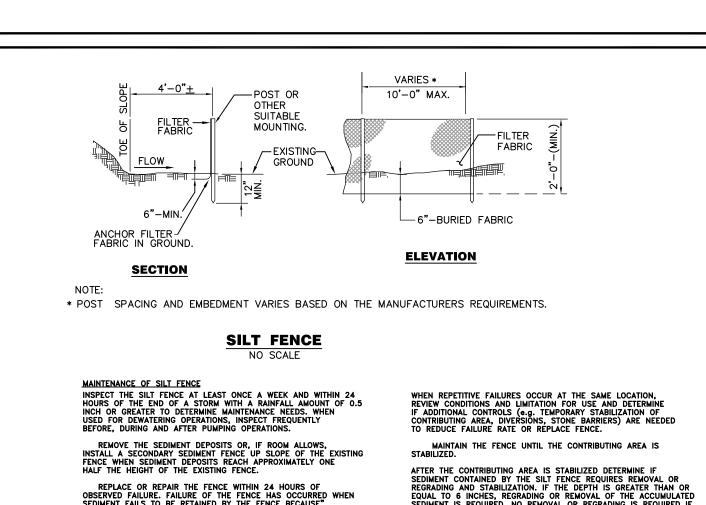
All work within the state right of way will comply with the State of Connecticut Department of Transportation Standard Specifications for Roads,

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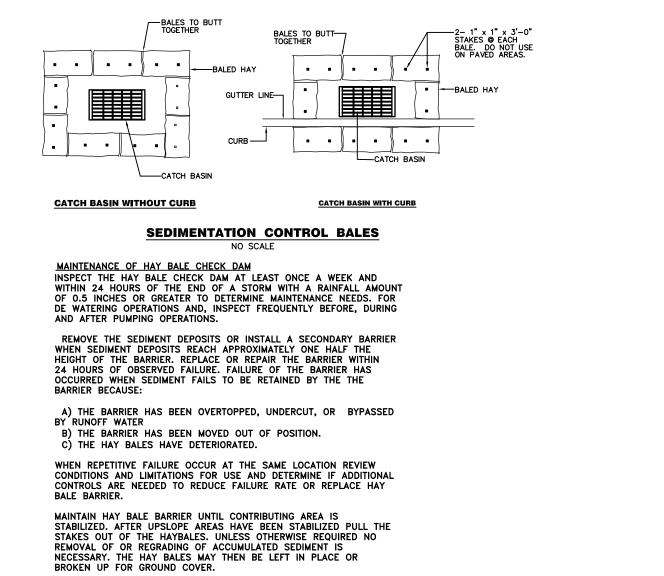


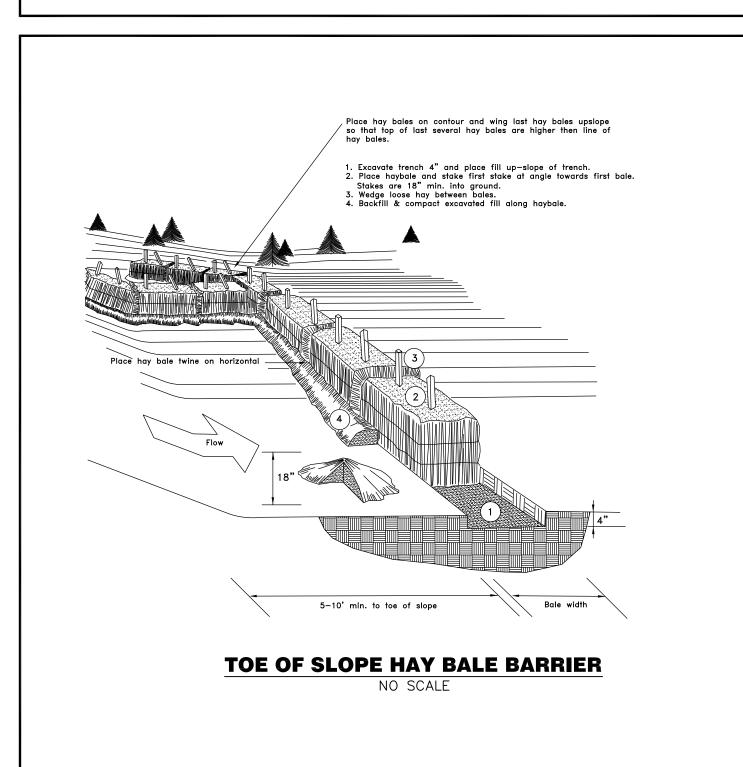
REMOVE THE FENCE BY PULLING UP THE SUPPORT POSTS AND CUTTING THE GEOTEXTILE AT GROUND LEVEL. REGRADE OR REMOVE SEDIMENT AS NEEDED, AND STABILIZE DISTURBED SOILS.

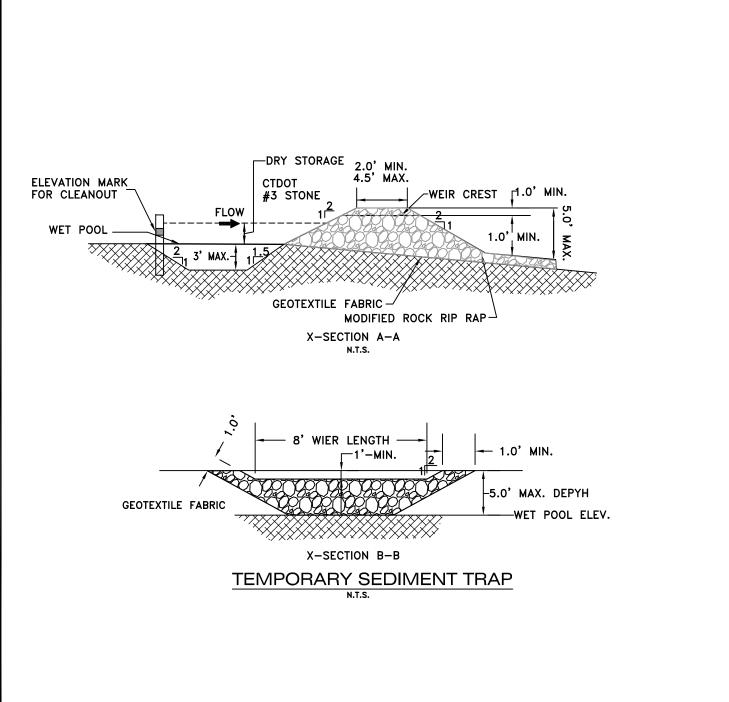
(A) THE FENCE HAS BEEN OVER TOPPED, UNDERCUT OR BYPASSED BY RUNOFF WATER,

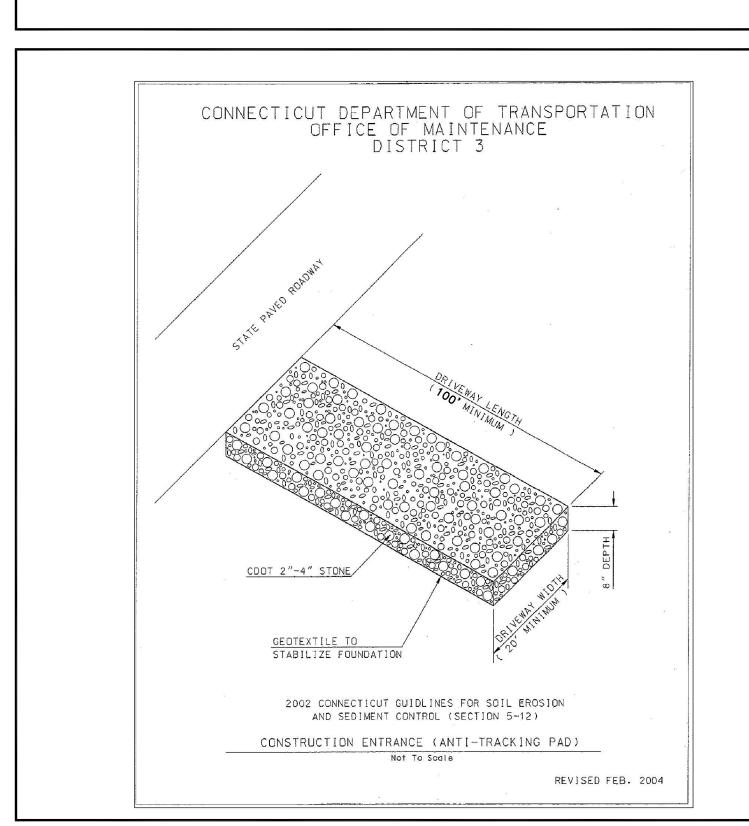
(B) THE FENCE HAS BEEN MOVED OUT OF POSITION (KNOCKED OVER), OR

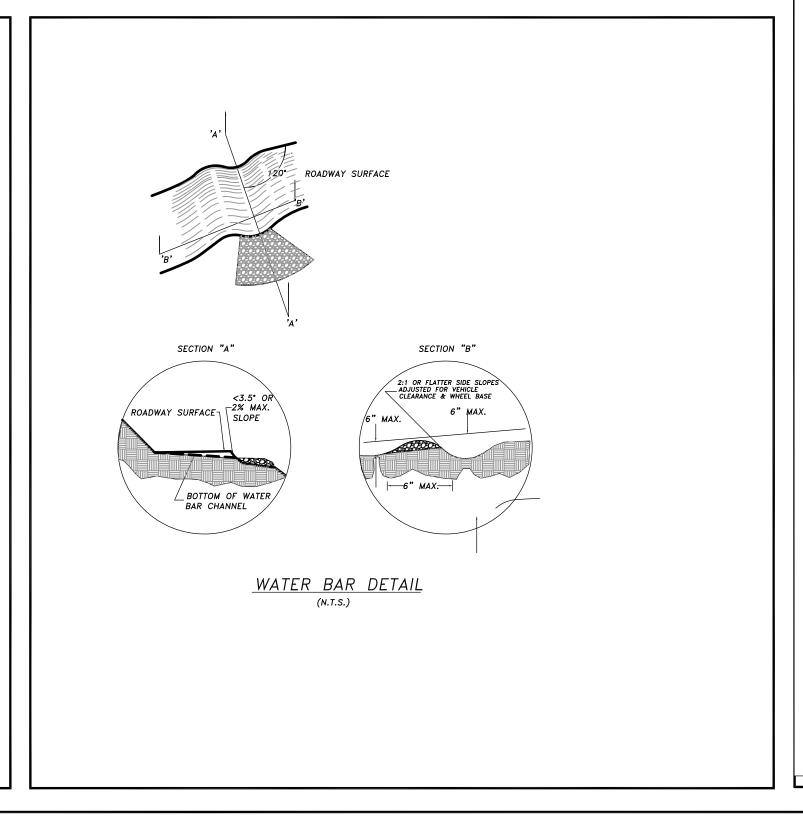
(C) THE GEOTEXTILE HAS DECOMPOSED OR BEEN

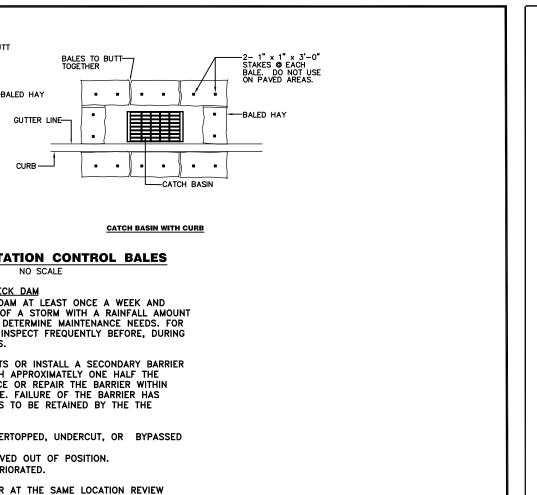


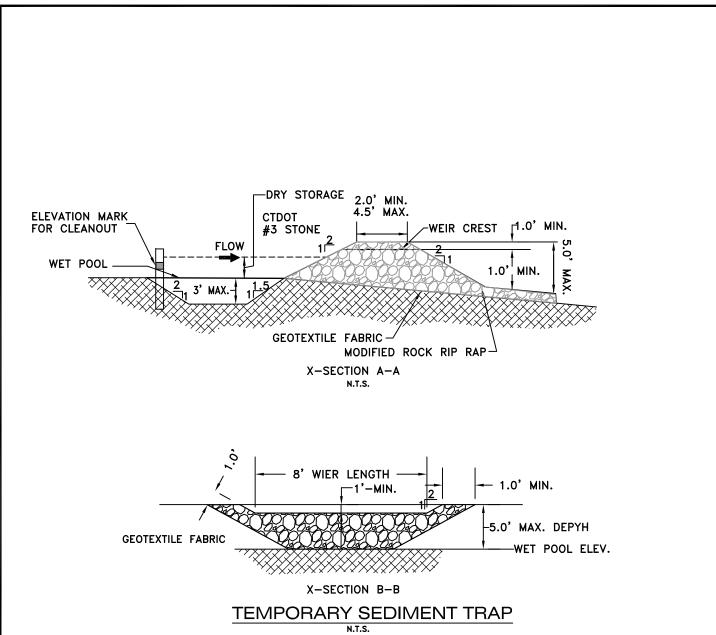












A temporary channel with a berm of tamped or compacted soil placed in such a manner so as to divert flows.

• To divert sediment-laden runoff from a disturbed area to a sediment-trapping facility such as a temporary sediment trap, sediment basin or vegetative filter.

• To direct water originating from undisturbed areas away from areas where construction activities are taking place. • To fragment disturbed areas thereby reducing the velocity and concentration of runoff.

• Where the drainage area at the point of discharge is 5 acres or less. For drainage areas greater than 5 acres use Permanent Diversion measure. • Where the intended use is 1 year or less. For uses greater than 1 year use Permanent

Planning Considerations

Diversion measure.

control in association with a sediment trap or a sediment A temporary diversion is used to divert sheet flow to a basin, or a series of sediment-trapping facilities, on modstabilized outlet or a sediment-trapping facility. It is also erate to large construction sites. If installed properly and used during the establishment of permanent vegetative in the first phase of grading, maintenance costs are very cover on sloping disturbed areas. When used at the top low. Often, cleaning of sediment-trapping facilities is the of a slope, the structure protects exposed slopes by directing runoff away from the disturbed areas. When only associated maintenance requirement. used at the base of a disturbed slope, the structure protects adjacent and downstream areas by diverting Design Criteria sediment-laden runoff to a sediment trapping facility. No engineered design is required for a temporary diver-Temporary diversions must be installed as a first step in the land-disturbing activity and must be funcsion if the contributing drainage area is 1 acre or less.

tional prior to disturbing the land they are intended to Where channel grades within the temporary diversion exceed 2%, stabilization of the channel is necessary to prevent erosion of the temporary diversion itself (e.g., temporary seeding, temporary erosion control blankets, riprap, etc.). The channel and berm must have a positive grade to assure drainage, but if the gradient is too great, precautions must be taken to prevent channel erosion due to high-velocity flows behind the berm. The crosssection of the channel should be of a parabolic or trapezoidal shape to prevent a high velocity flows which

could arise in the bottom of a "V" shaped ditch. This practice is economical because it uses materials available on the site and can usually be constructed with equipment needed for site grading. The useful life of the practice can be extended by stabilizing the berm with vegetation. Temporary diversions are durable, inexpensive, and require little maintenance when constructed properly. When used in conjunction with a Temporary Sediment Trap, temporary diversions become a logical choice for a control measure when the control limits for silt fences or hay bale barriers have been exceeded.

2002 Connecticut Guidelines for Soil Erosion and Sediment Control

grade. Channel grades flatter than 2% require no stabilization. Channels with grades steeper than 2% require stabilization in accordance with stabilization specifications found in the Permanent Diversion measure. Temporary diversions shall be stabilized according to the duration of their intended use (see Short Term Non-Living Soil Protection Functional Group).

Regardless of design, release the diverted runoff to a stable outlet or channel. Where diverted runoff is expected to be carrying a sediment load, the runoff shall be released to a sediment impoundments (see Sediment Impoundments and Barriers Functional Group).

Construction nstall erosion controls at the outlet where sediment laden runoff is expected. Construct the temporary diversion (see Figure TD-1). After grading the berm, tamp or compact it to prevent

Apply stabilization measures (may include temporary or permanent seed and mulch) immediately following construction.

Maintenance

When the temporary diversion is located within close proximity to ongoing construction activities, inspect the temporary diversion at the end of each work day and immediately repair damages caused by construction equipment. Otherwise inspect the temporary diversion and any associated measures weekly or immediately after 0.5 inch of rain falls within a 24-hour period to determine maintenance needs. Repair the temporary diversion and any associated

Temporary diversions are often used as a perimeter

If the contributing drainage area exceeds 1 acre

and is 5 acres or less, design the temporary diversion to

the Permanent Diversion measure standards using

For engineered temporary diversions, construct the tem-

porary diversion in accordance with the design standards

and specifications. For all non-engineered temporary

The minimum height from the bottom of the channel to the

top of the berm shall be at least 18 inches and the berm

Side slopes shall be 3:1 or flatter inside and 1:1 or flatter

The flow line behind the berm shall have a positive

outside. The top width of the berm shall be 1 foot.

constructed of compacted material.

Side Slopes and Top Width

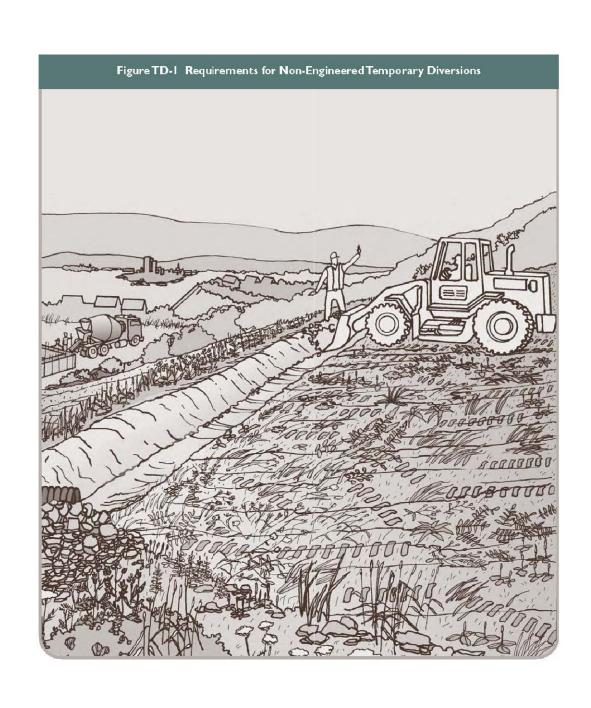
Grade and Stabilization

diversions, comply with the following specifications.

the 2-year frequency storm as the design storm.

measures within 24 hours of observed failure. Failure of the temporary diversion has occurred when the diversion had been damaged by either construction equipment, erosion or siltation such that it no longer meets the criteria established under the Specifications section or provided in the engineered design (if any).

review conditions and limitation for use and determine if additional measures are needed to reduce failure rates or if alternate measures are indicated to replace the tempo-



2002 Connecticut Guidelines for Soil Erosion and Sediment Control

Locate the pumping settling basin on the site such that

surface water is directed away from the pumping settling basin (See Temporary Water Diversion measure).

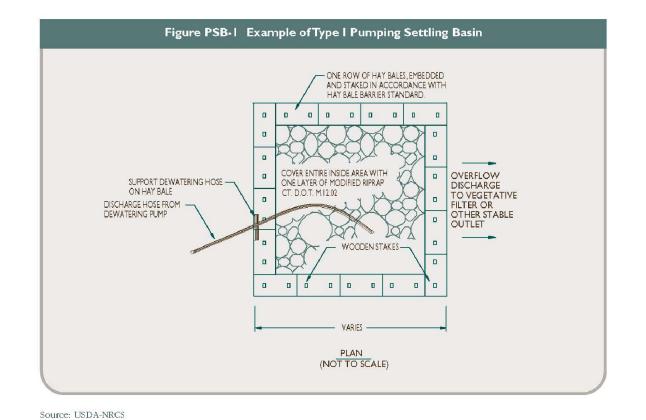
Installation

All dewatering basins, regardless of type, contain a water/sediment storage area, an energy dissipator for pump discharges entering the basin (See Pump Intake and Outlet Protection measure and an emergence overflow that provides for a stable filtration surface through which water may leave the basin. Pump discharge is located at a point in the dewatering basin that is farthest from the basin outlet.

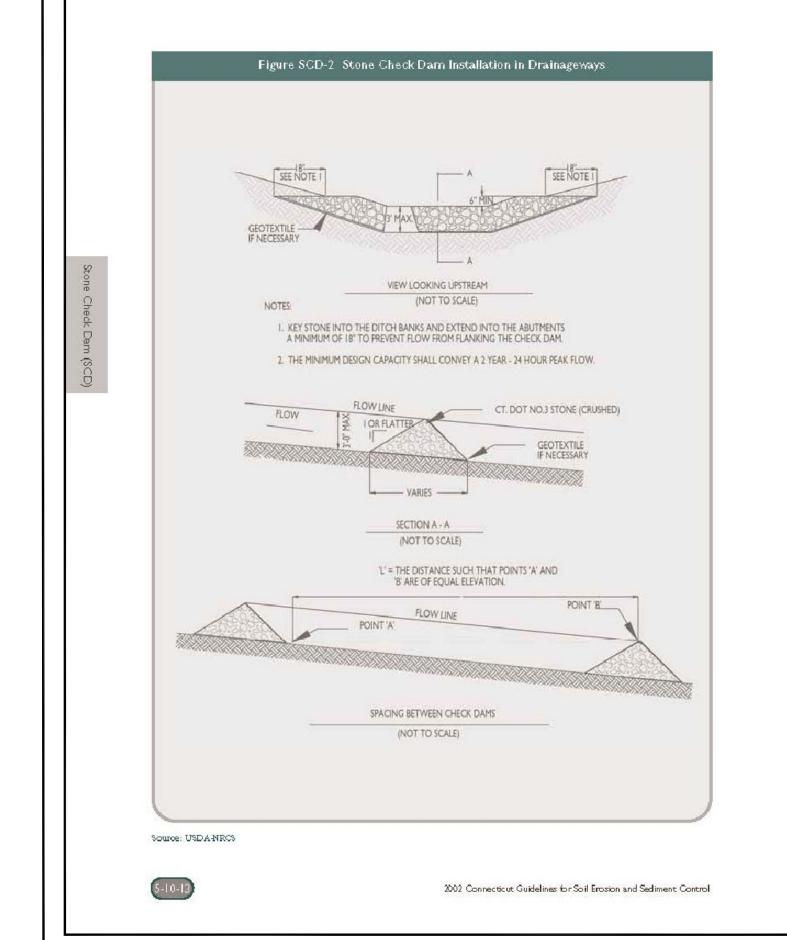
Depending upon existing soil conditions and side slopes of excavated pumping settling basin, soil stabi-

lization may be required. The excavation may be lined with geotextile or stone to help reduce scour and to prevent the erosion of soil from within the structure.

Type I - Small Volumes: Consist of an above ground enclosure created by a Hay Bale Barrier. See Hay Bale Barrier measure for material specifications and general installation requirements. This type of basin is located only on flat grades and is limited for use by its storage volume where the anticipated sediment delivery would not require cleaning and the expected use is for a very short duration. For calculating storage use the top of the lowest hay bale on the perimeter to the crest of the outlet control. An example of use for this type of basin would be a dewatering operation for a trench where no adequate vegetated filter exists (See Vegetated Filter measure) before the discharge enter into critical area such as a wetland, watercourse, street



2002 Connecticut Guidelines for Soil Erosion and Sediment Control





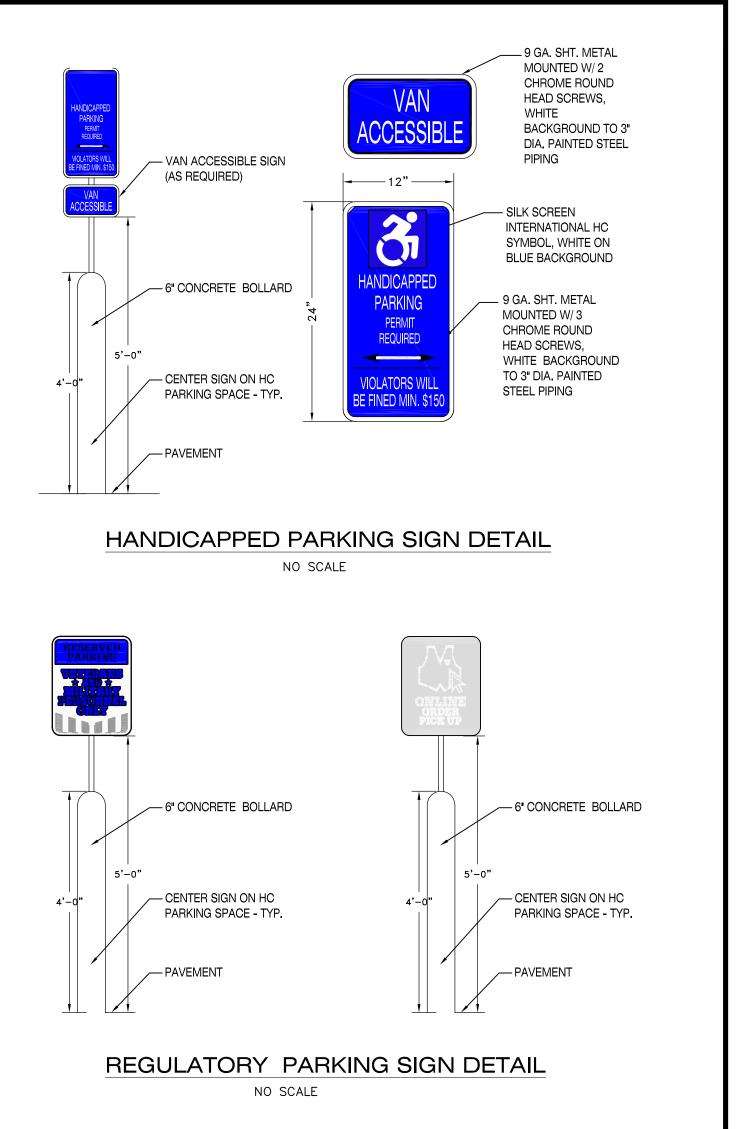
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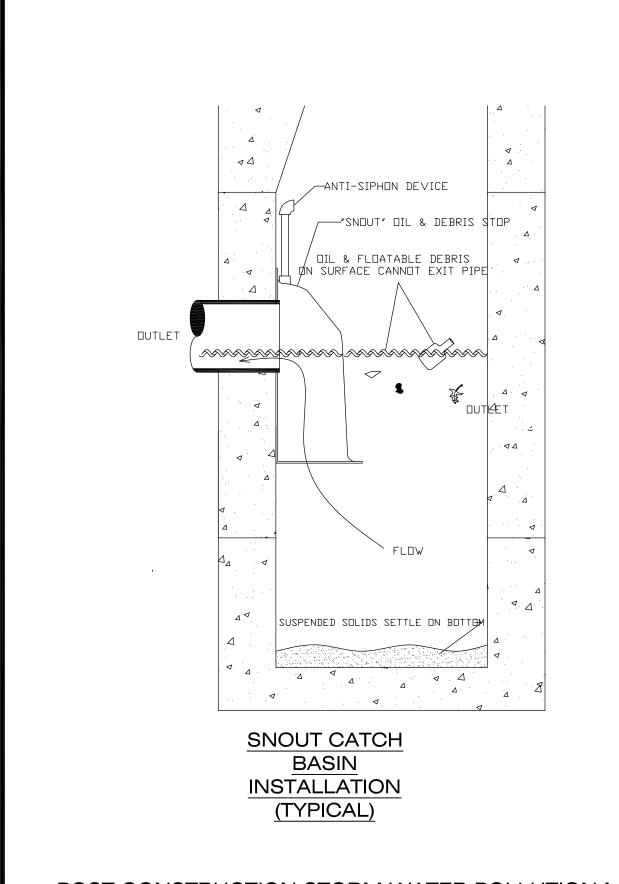
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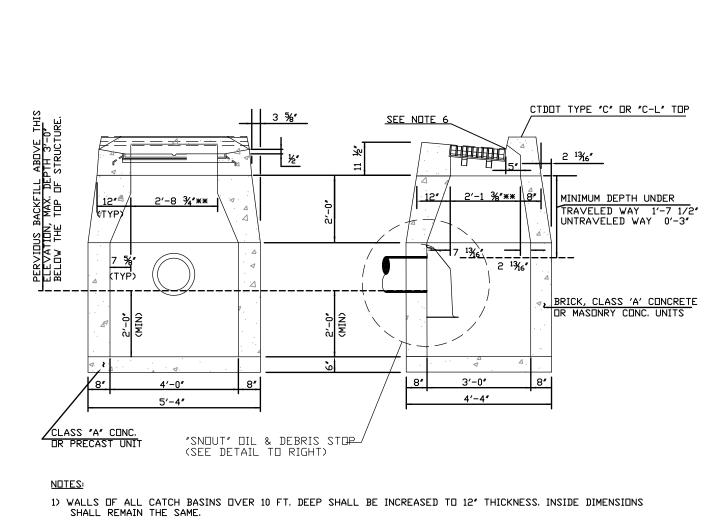


POST CONSTRUCTION STORM WATER POLLUTION MAINTENAN

RESPONSIBLE PARTIES AND STORMWATER MANAGEMENT SYSTEM OWNER:
NERP HOLDING AND ACQUISITIONS COMPANY, LLC
150 HARTFORD AVE.

WETHERSFIELD, CT 06109 PHONE: 860-529-9000

CATCH BASINS: CATCH BASINS SHALL BE INSPECTED ON A REGULAR BASIS (AT LEAST TWICE PER YEAR) AND ANY SEDIMENT, OILS & FLOATABLES WILL BE REMOVED AS NECESSARY (A MINIMUM OF ONCE A YEAR TO ENSURE FUNCTIONING OF THE SYSTEM, UTILIZING A VACUUM TRUCK)



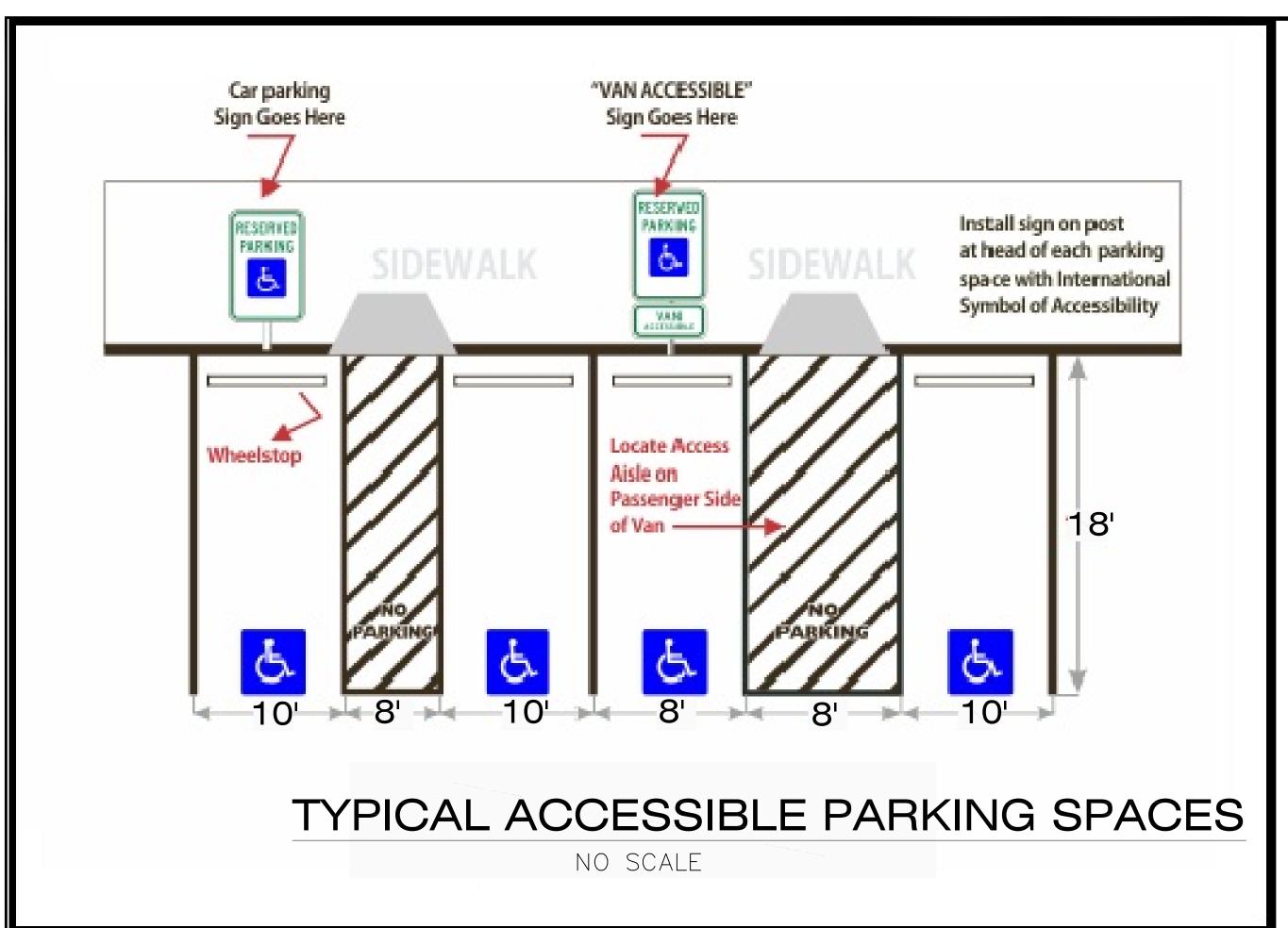
2) PROVIDE DRAINAGE OPENING IN EACH WALL AT LOWEST INVERT ELEVATION.

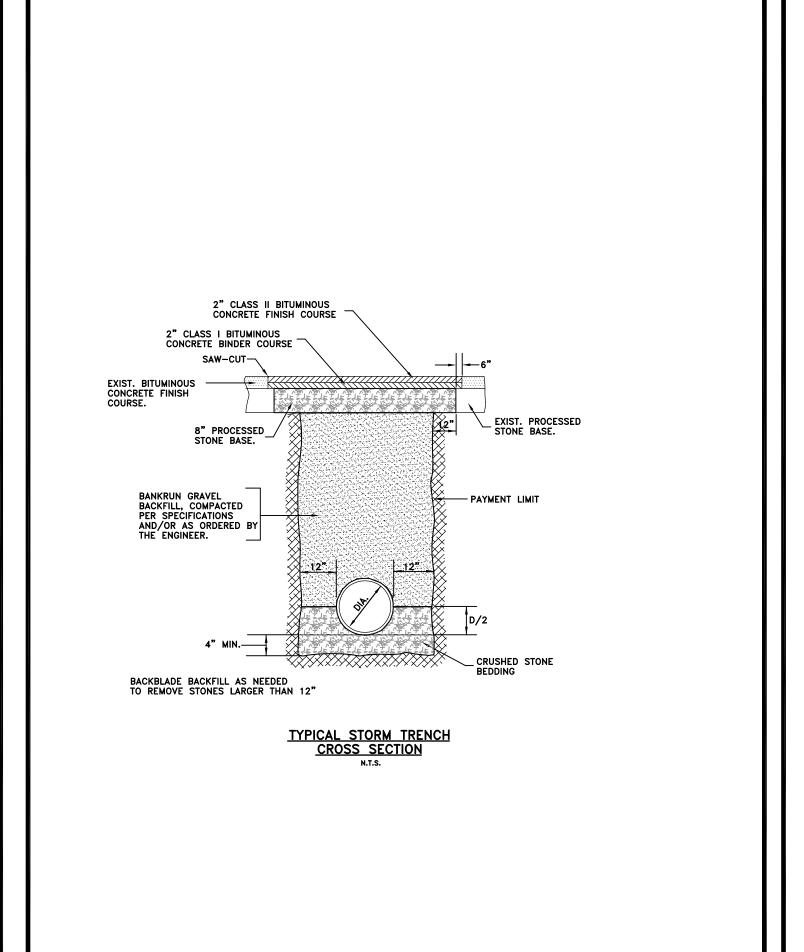
3) WHERE BRICK OR MASONRY CONCRETE UNITS ARE USED, CORBELLING WILL BE PERMITTED. MAXIMUM CORBEL SHALL BE 3". NO PROJECTION SHALL EXTEND INSIDE OF LIMITS NOTED BY **. 4) PRECAST CONCRETE CATCH BASIN UNITS MAY BE USED, AS DESCRIBED IN THE STANDARD SPECIFICATIONS.

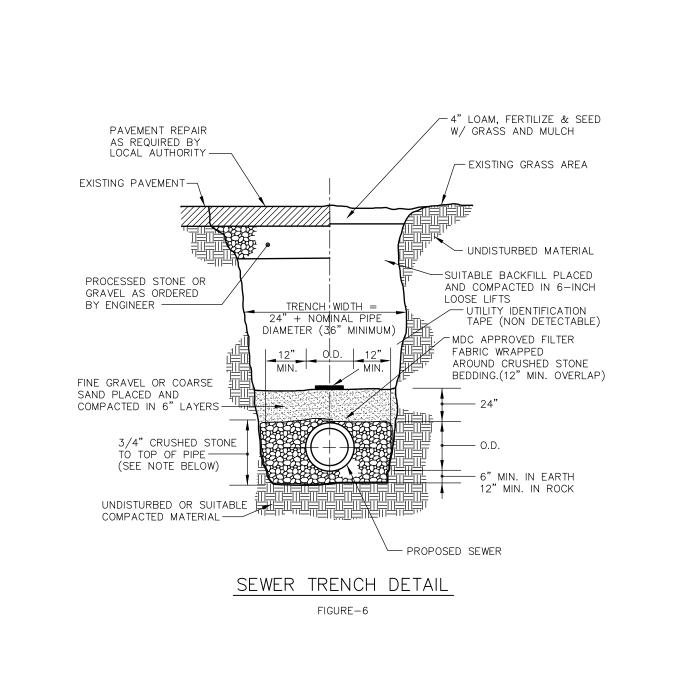
5) WHERE PRECAST CONCRETE UNIT IS USED FOR THE SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

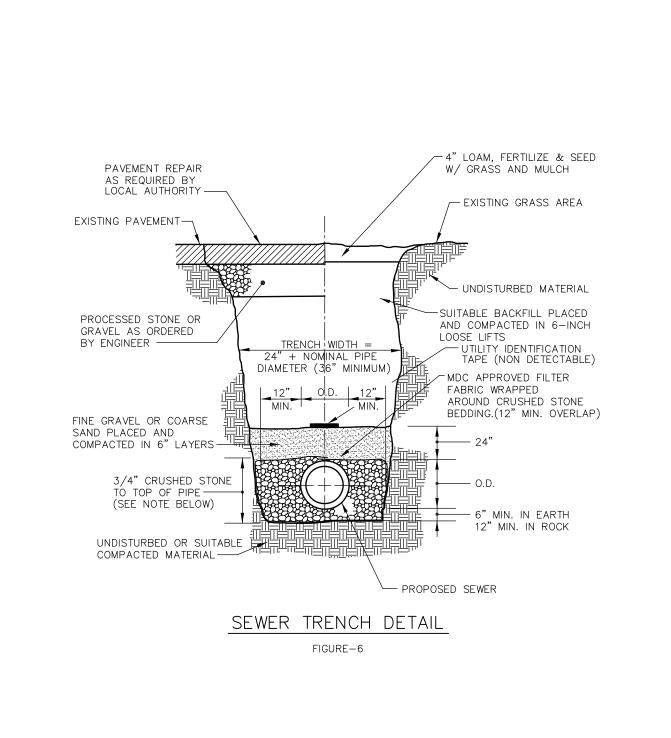
6) TOP OF FRAME ELEVATION SHALL BE DEPRESSED 1" BELOW NORMAL GUTTER GRADE. 7) PROVIDE 6"(MIN.) GRANULAR FILL UNDER STRUCTURE TO REPLACE UNSUITABLE MATERIAL.

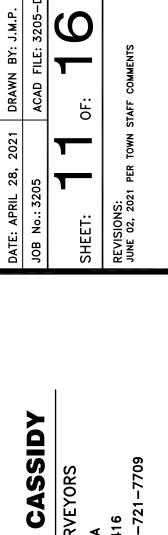
TYPICAL CATCH BASIN



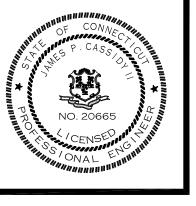


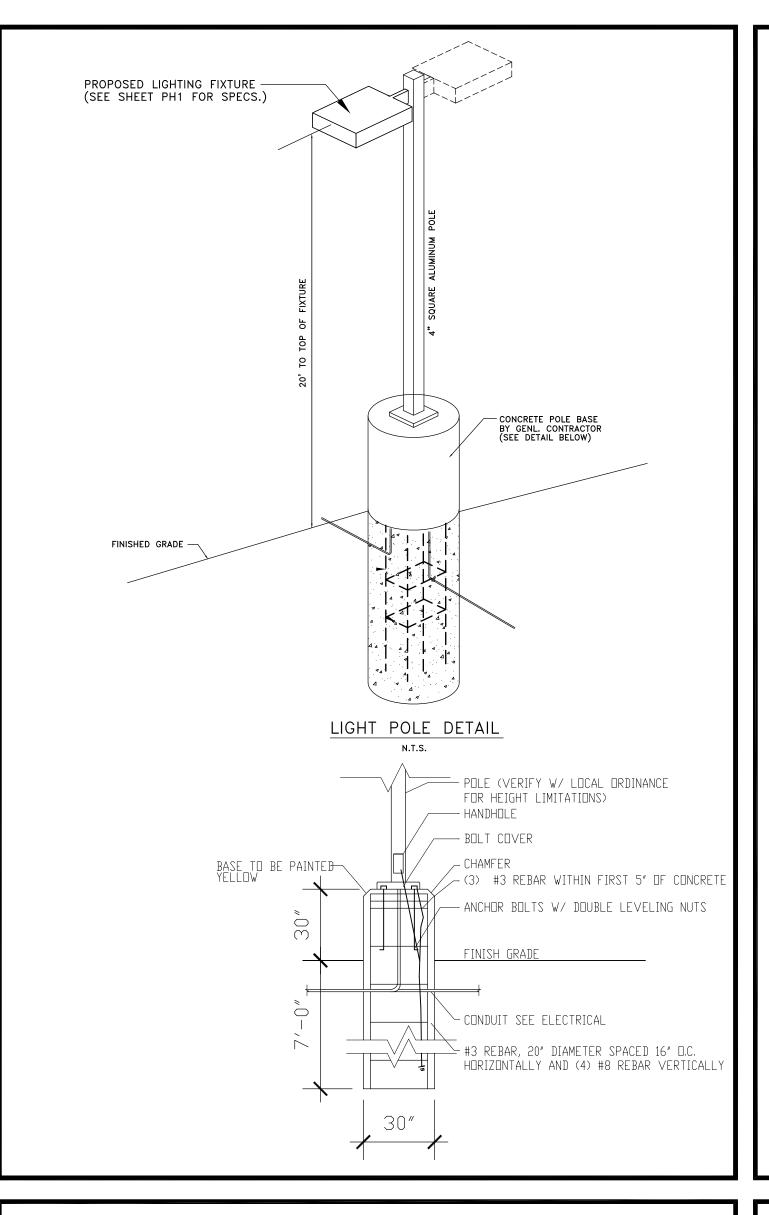


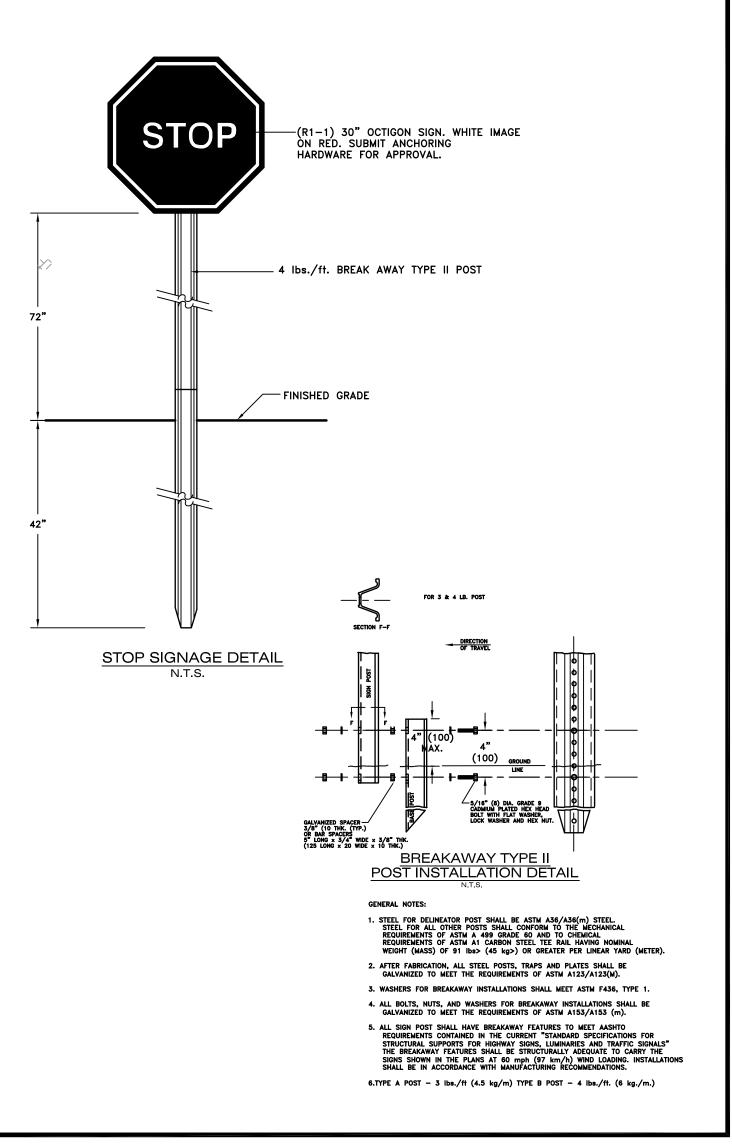




LLISEY







D-Series Size 1 LED Wall Luminaire

Introduction

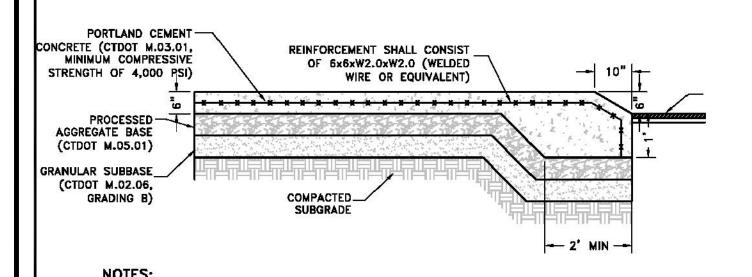
The D-Series Wall luminaire is a stylish, fully

integrated LED solution for building-mount

applications. It features a sleek, modern design

NICHTIME INCHING FACTS
FRIENDLY STREET

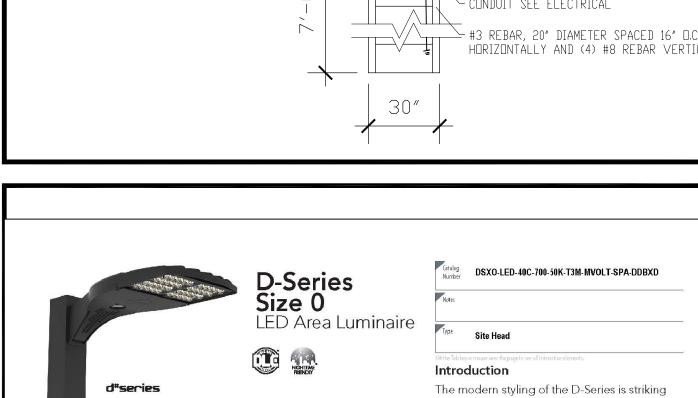
Back Box (BBW, ELCW)



- 1. SIZE OF PAD TO BE INDICATED ON PLANS
- 2. CONSTRUCTION JOINTS SHALL BE SPACED NO MORE THAN 10-12 FEET ON CENTER AND SHALL BE EQUALLY SPACED OVER THE LENGTH AND WIDTH OF THE PAD.
- 3. DOWELS SHALL BE PLACED ACROSS SLAB EXPANSION JOINTS TO LIMIT DIFFERENTIAL SETTLEMENT.
- 4. COMPONENTS SHALL MEET THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (CTDOT) STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 816.

MOUNTABLE CONCRETE ISLAND DETAIL

NO SCALE



statement even as it blends seamlessly with its

yet unobtrusive - making a bold, progressive environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal

Orde	ring Information	000 40K T3M MVOLT SPA DDBX				
DSXO LED				advise when ordering!		
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting
DSXO LED	Forward optics 20C 20 LEDs (one engine) 40C 40 LEDs (two engines) Rotated optics 30C 30 LEDs (one engine)	530 530 mA 700 700 mA 1000 1000 mA (1 A) ²	30K 3000 K 80 CRI min.) 40K 4000 K (70 CRI min.) 50K 5000 K (70 CRI) AMBPC Amber phosphor converted 3	T1S Type I short TFTM Forward throw medium T2M Type II medium TSVS Type IV short T3S Type III short TSM Type IV short T3M Type III medium TSM Type V medium T4M Type IV medium TSM Type V wide	MVOLT ⁴ 120 ⁴ 208 ⁴ 240 ⁴ 277 ⁴ 347 ⁵ 480 ⁵	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor 6 RPUMBA Round pole universal mounting a daptor 6 Shipped separately 7 KMA8 DDBXD U Mast arm mounting bracket adaptor (Spediy finish)

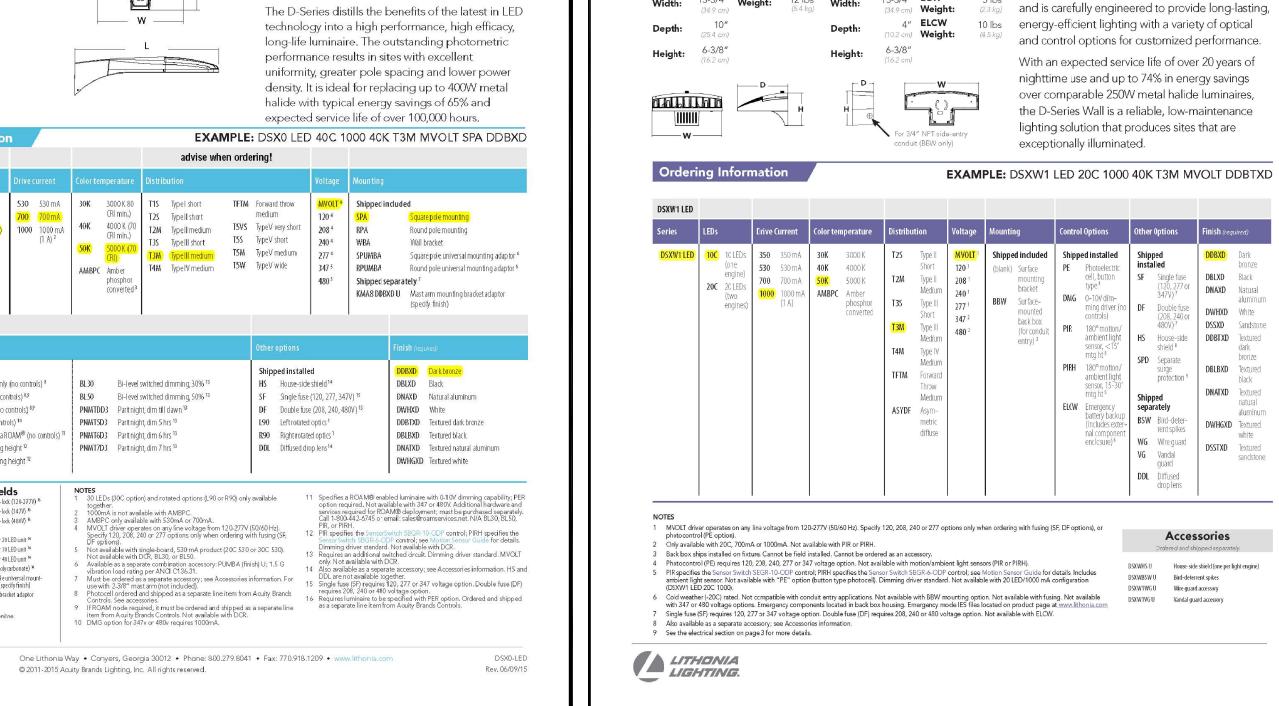
	30 States (one display	AMBPC Amber phosphor converted3	T4M Type IV medium	T5W	TypeV wide	347 ⁵ 480 ⁵	RPUMBA Shipped se KMA8 DDB)	Round Pparately 7 (DU Mast	d pole universal mounting adaptor ^o arm mounting bracket adaptor (fy finish)
Control op	tions				Other options			Finish (rega	ired)
Shipped i PER PER 5 PER 7 DMG DCR PIR PIRH	nstalled NEMA twist-lock receptade only (no controls) ⁸ Five-wire receptade only (no controls) ^{8,9} Seven-wire receptade only (no controls) ^{8,9} 0-10V dimming driver (no controls) ¹⁰ Dimmable and controllable via ROAM [®] (no controls) ⁷¹ Motion sensor, 8-15' mounting height ¹² Motion sensor, 15-30' mounting height ¹²	PNMTDD3 Partnight, PNMTSD3 Partnight, PNMT6D3 Partnight,	itched dimming, 30% ¹³ itched dimming, 50% ¹³ dim till dawn ¹³ dim 5 hrs ¹³ dim 6 hrs ¹³ dim 7 hrs ¹³			e shield ¹⁴ (120, 277, 34 e (208, 240, 48 I optics ¹ ed optics ¹		DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white
Cessories and shipped separately and shipped separately and shipped separately	Controls & Shields 127F-15.1U Photocell - SSL twist-lock (120-277V) * 247F-1.5 CULJU Photocell - SSL twist-lock (120-277V) * 180F-1.5 CULJU Photocell - SSL twist-lock (480V) * Shorting cap * OHS20CU House-side shield for 20 LED unit * OHS30CU House-side shield for 30 LED unit * OHS40CU House-side shield for 40 LED unit * OHS40CU OHS64CU OHS64CU	together. 2 1000mA is not available 4 MVOLT driver operate Specify 120, 208, 240 DF options). 5 Not available with DC	with 530mA or 700mA. ss on any line voltage from 1 or 277 options only when o gle-board, 530 mA product i R, BL30, or BL50. e combination accessory: Pl	20-277V (rdering wi (20C 530 c	50/60 Hz). th fusing (SF, 1 or 30C 530).	option rec services re Call 1-800 PIR, or PIR 2 PIR specific Sensor Sw Dimming 3 Requires a only. Not	quired. Not avai equired for ROA 442-6745 or et RH. ies the Sensors itch SBGR-6-OD driver standard an additional sw. available with D	lable with 34: .M® deploymmail: sales@rowitch SBGR-1 DP control; se . Not available itched circuit CR.	with 0-10V dimming capability, PEF 7 or 480V, Additional hardware and rent; must be purchased separately, amisenvices.net. NIA BL30, BL50, 0-CDP control; PIRH specifies the e Motion Sensor Guide for details. with DCR. Dimming driver standard. MVOLT see Accessories information. HS an

ibration load rating per AIVIL (1902).

Must be ordered as a separate accessory; see Accessories information. For see with 2.3/8" mast arm (not included).

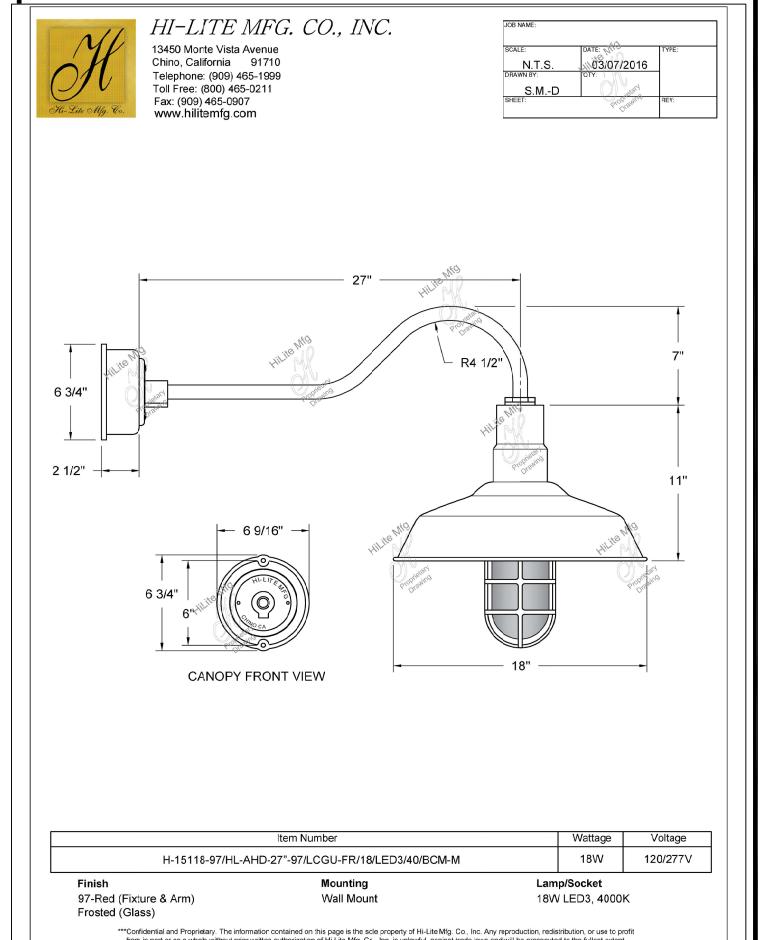
Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories.

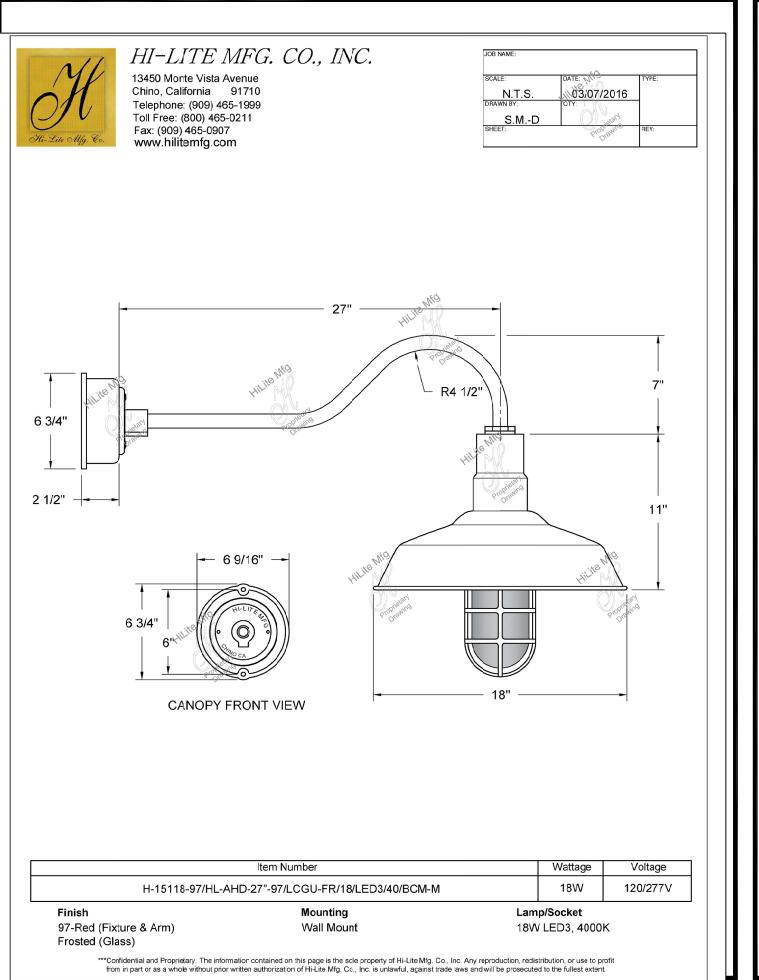
If ROAM node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR.



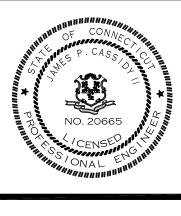
Specifications

Luminaire





CASSID LLISEY

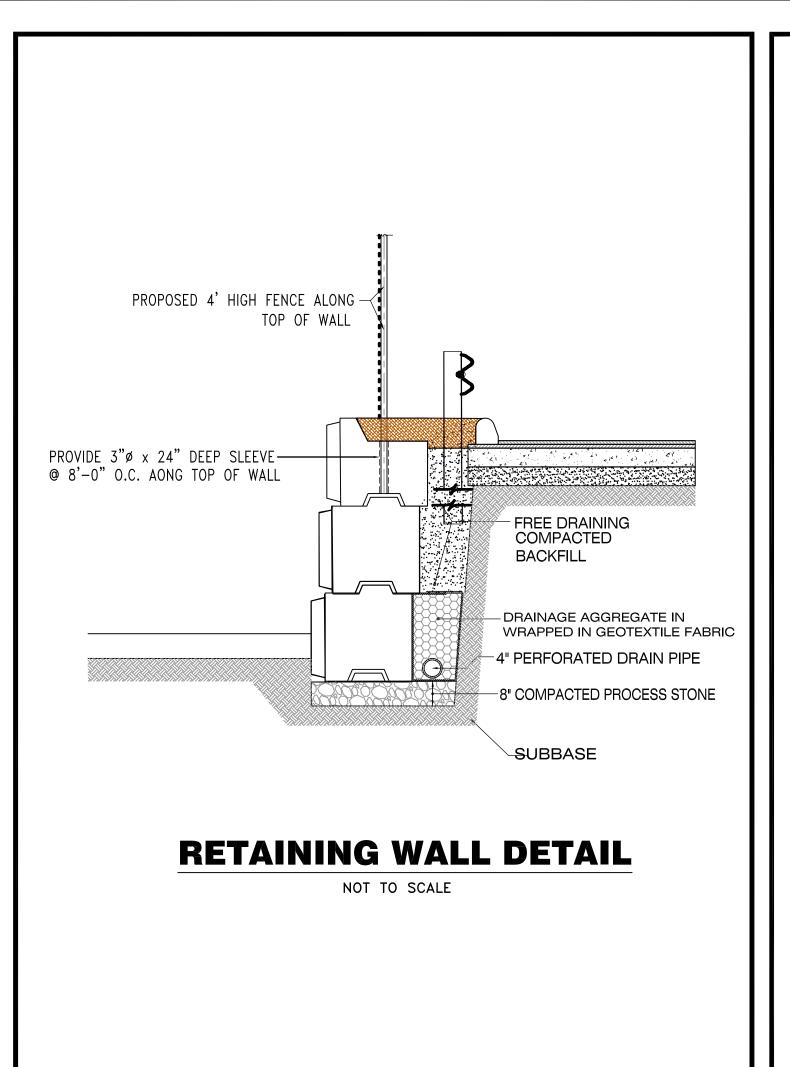


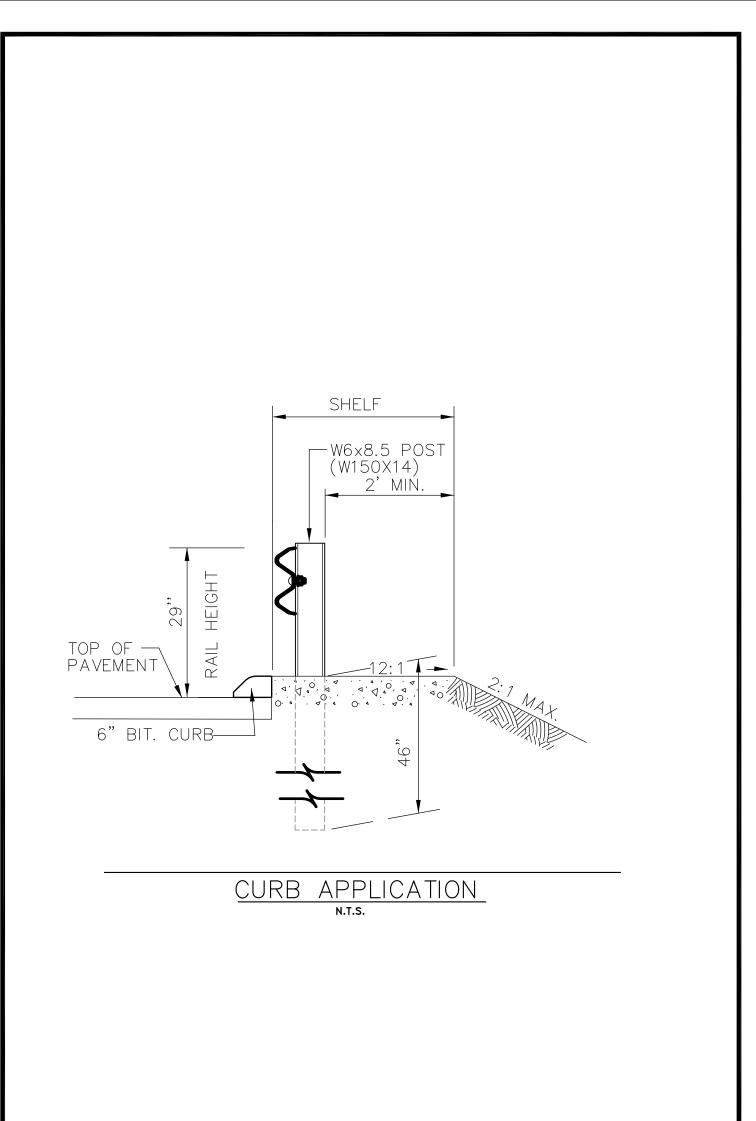
© 2011-2015 Acuity Brands Lighting, Inc. All rights reserved.

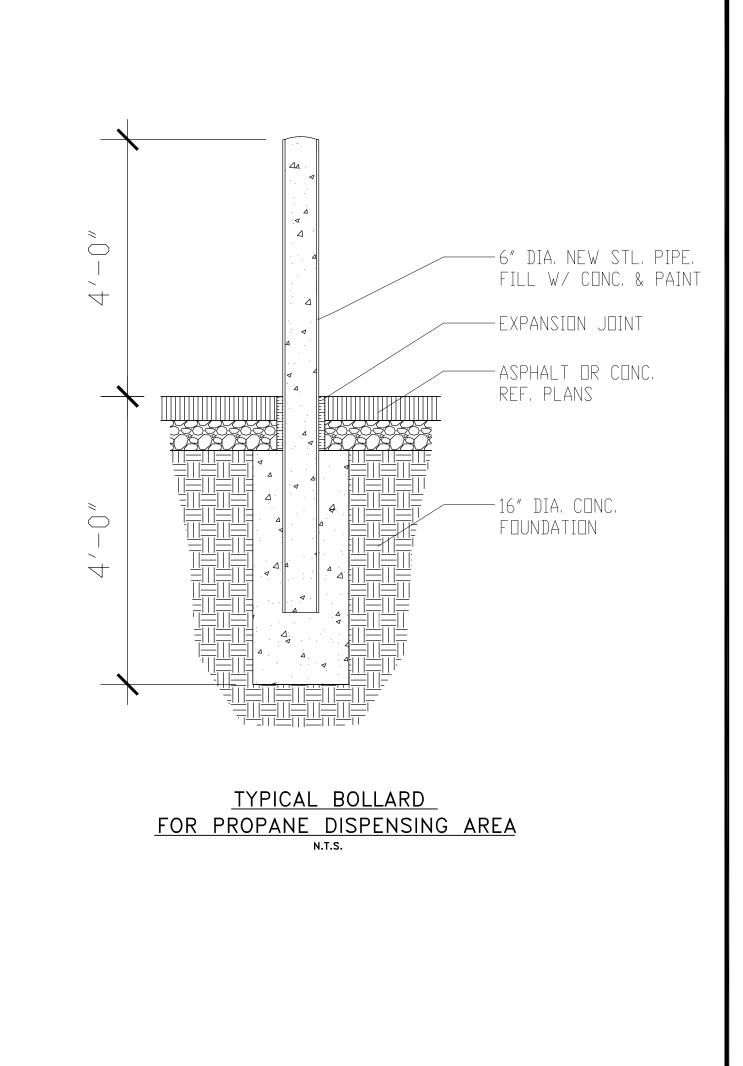
KM AS DDBXD U Mast arm mounting bracket adaptor (specify finish)?

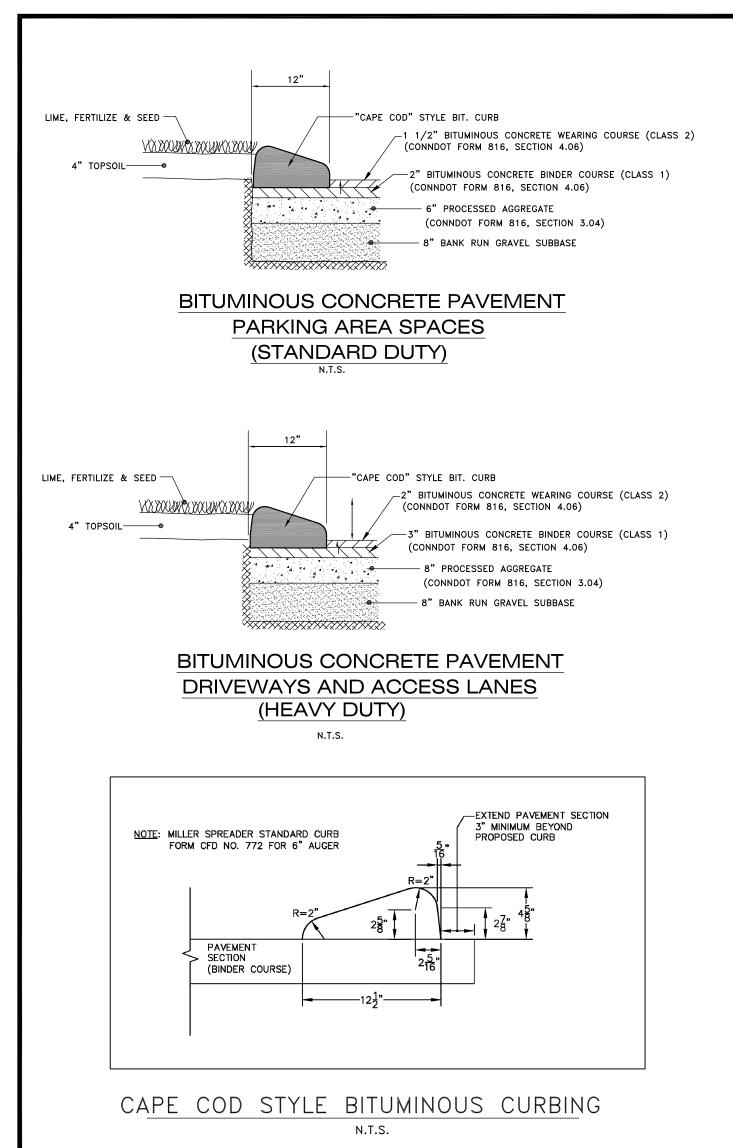
LITHONIA LIGHTING.

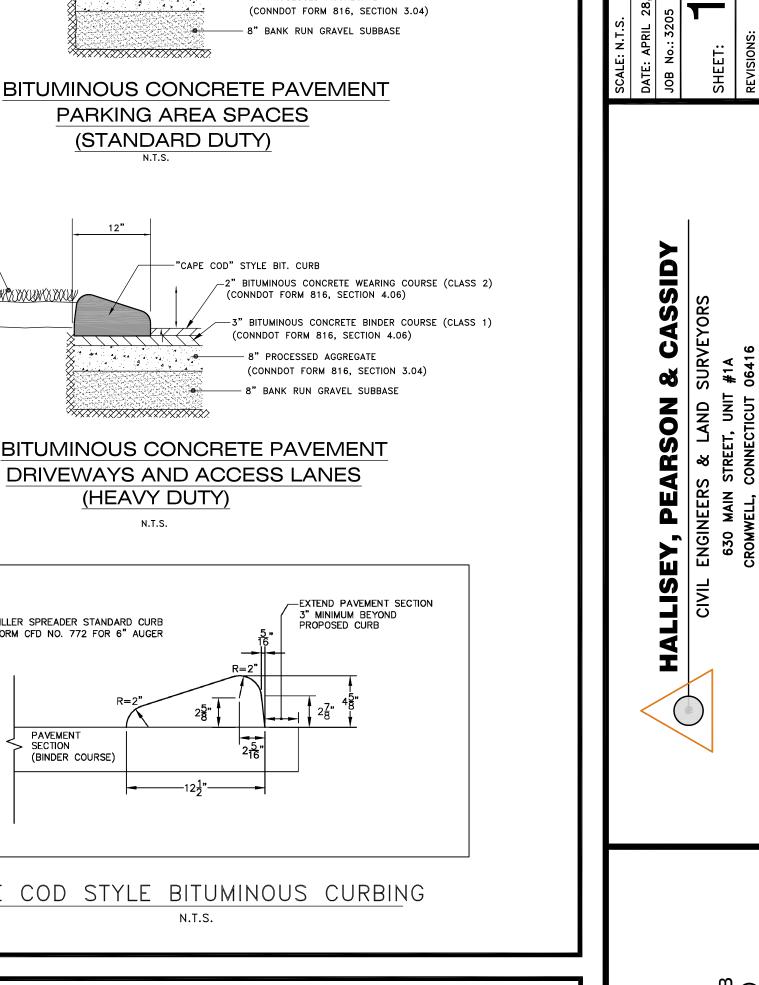
Specifications

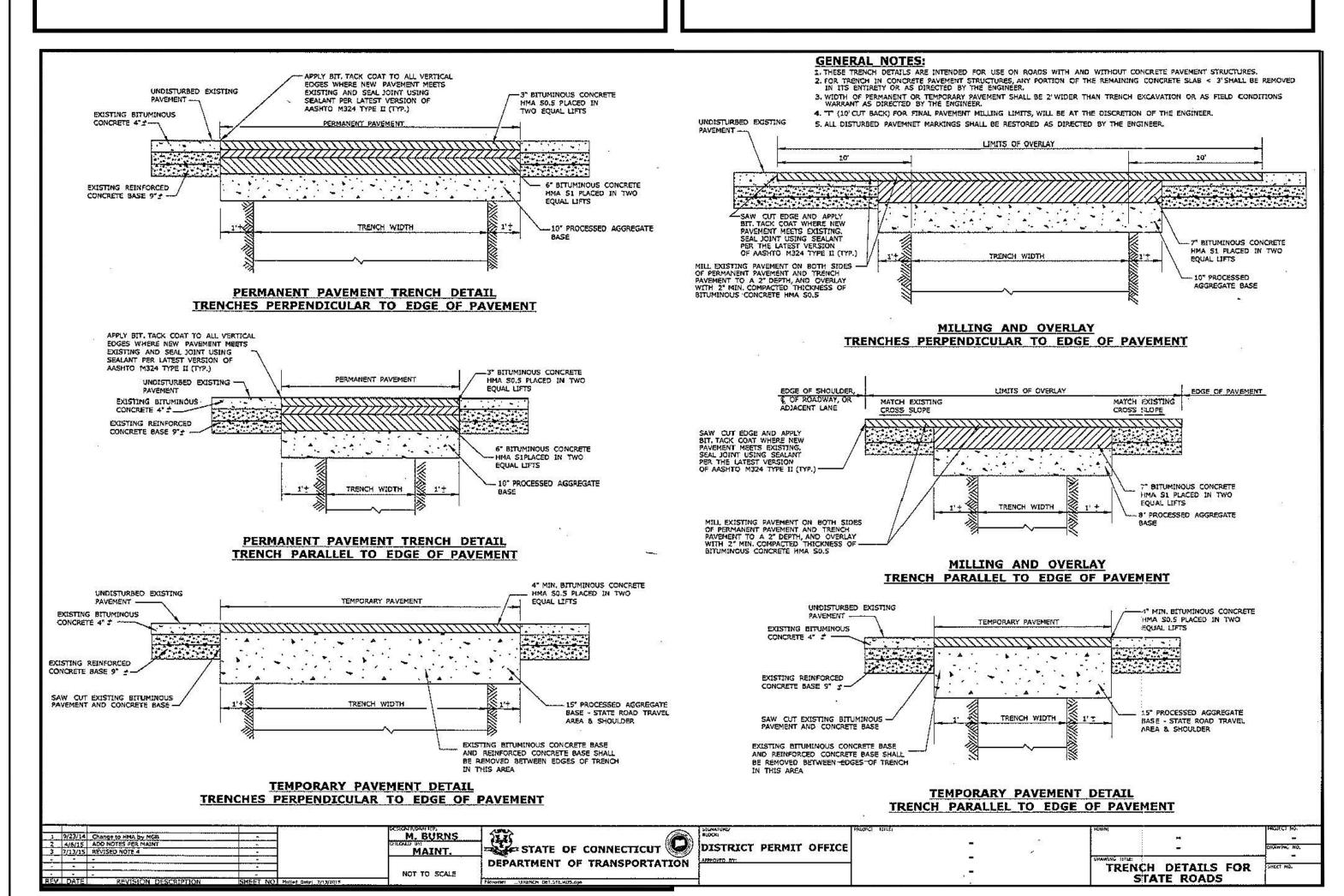


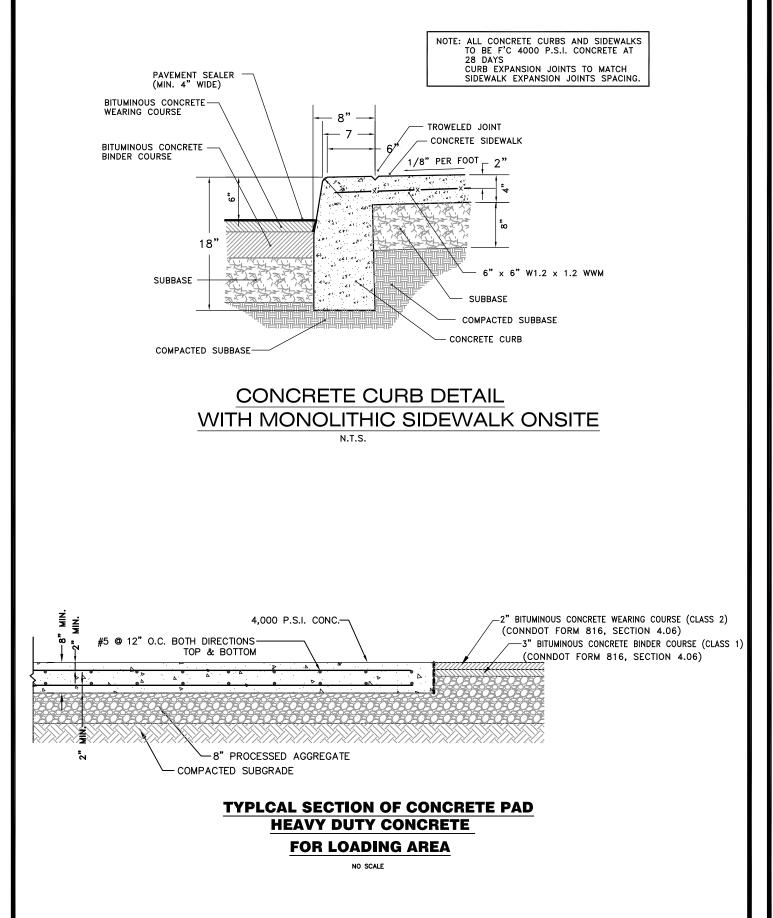


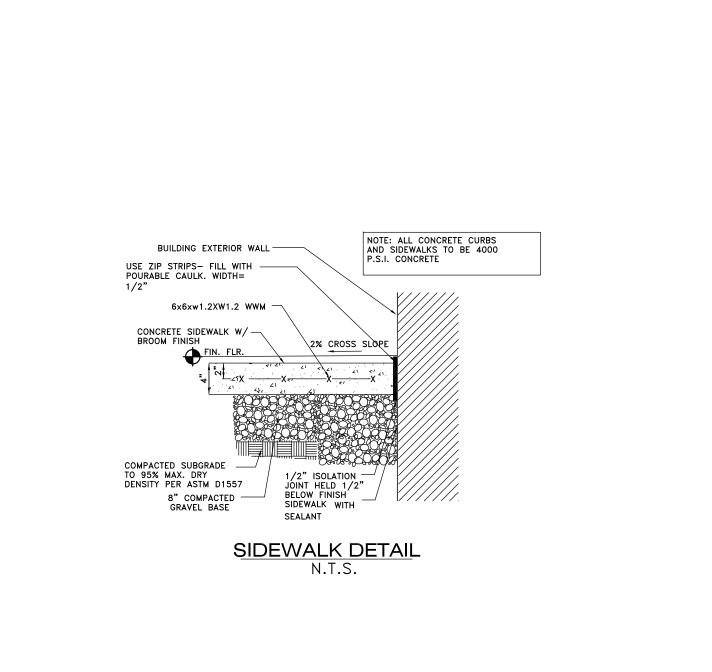






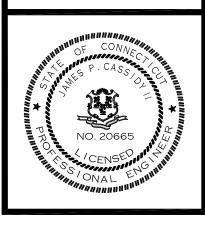








, LLC D AT: 102-40 YT RTE

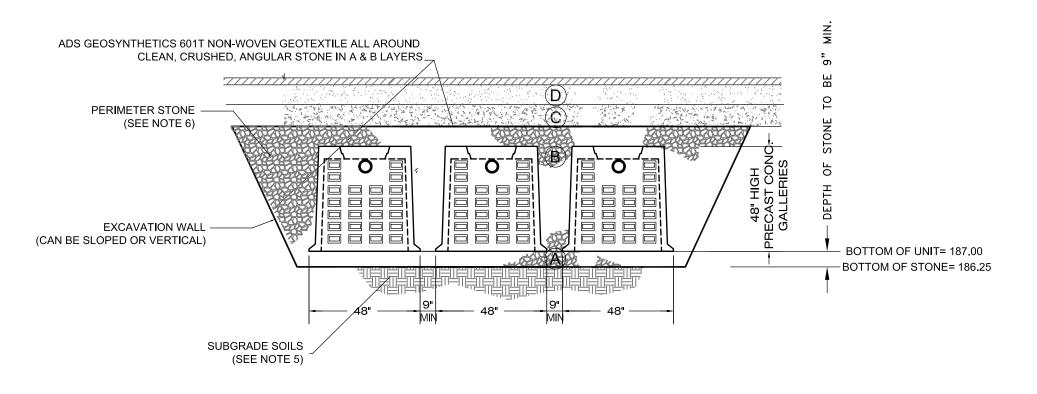


ACCEPTABLE FILL MATERIALS: UNDERGROUND INFILTRATION SYSTEM (PRECAST CONCRETE GALLIERS)

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. 2 3

NOTES:

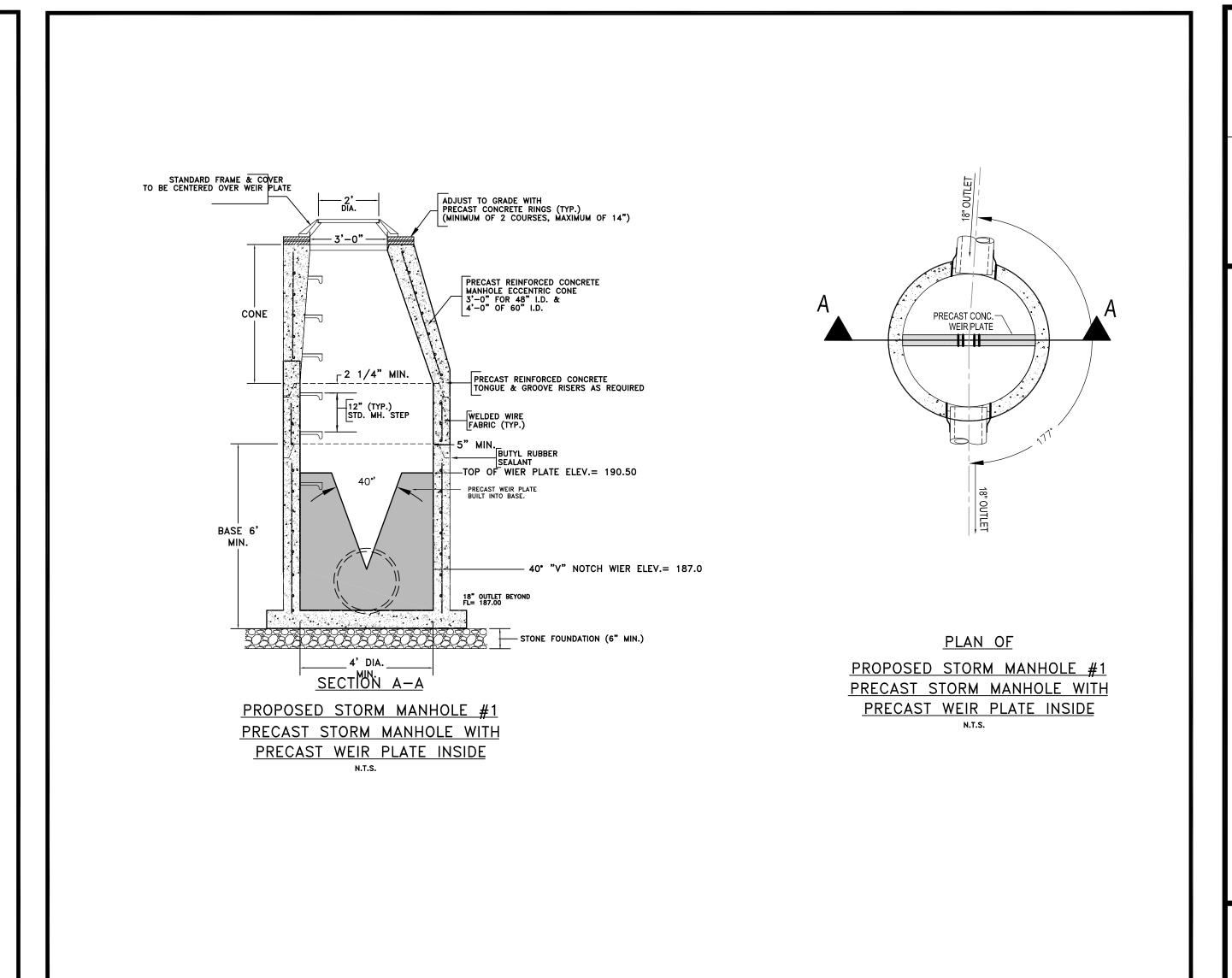
- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION
- EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

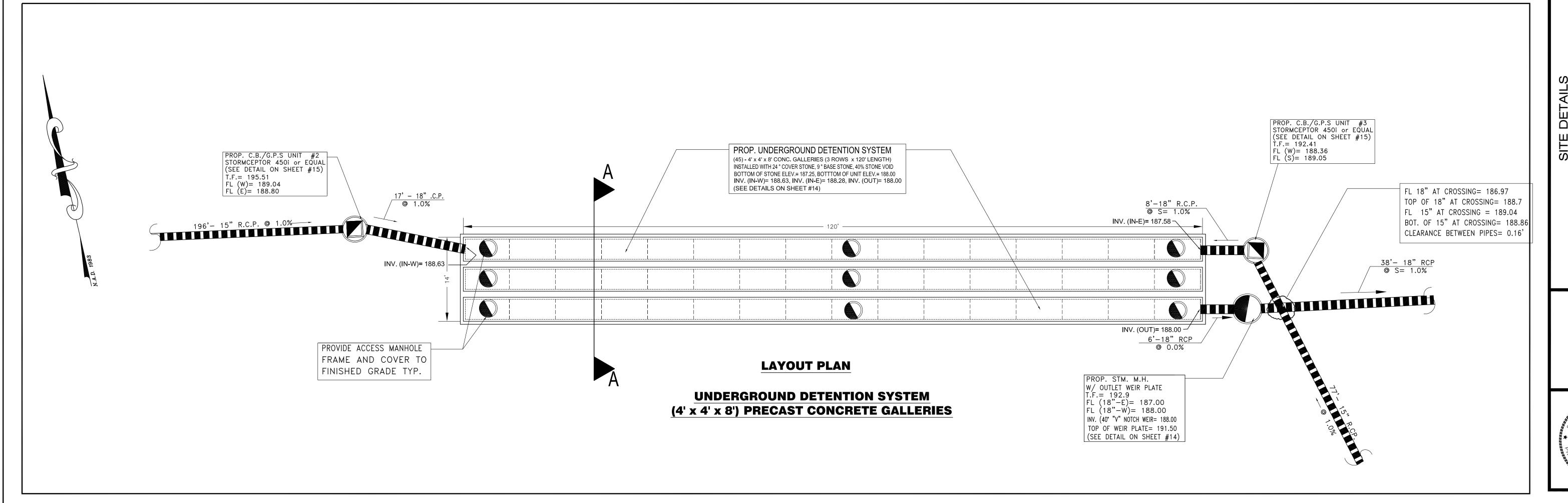


UNDERGROUND DETENTION SYSTEM

SECTION A-A

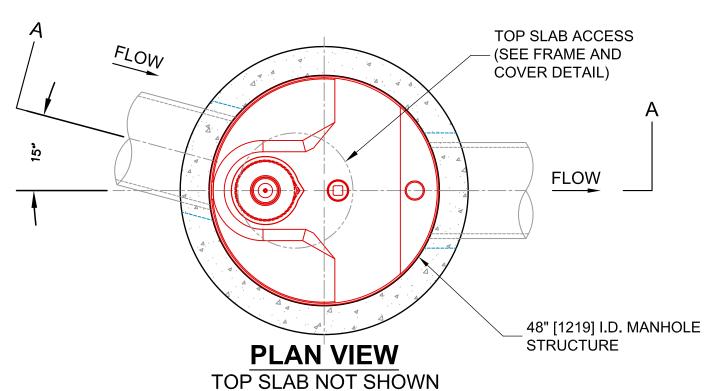
- MC-4500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". A MC-4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".^
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.^J THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.^J
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.^J
- 6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 7. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

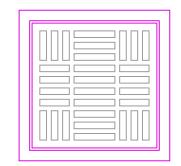




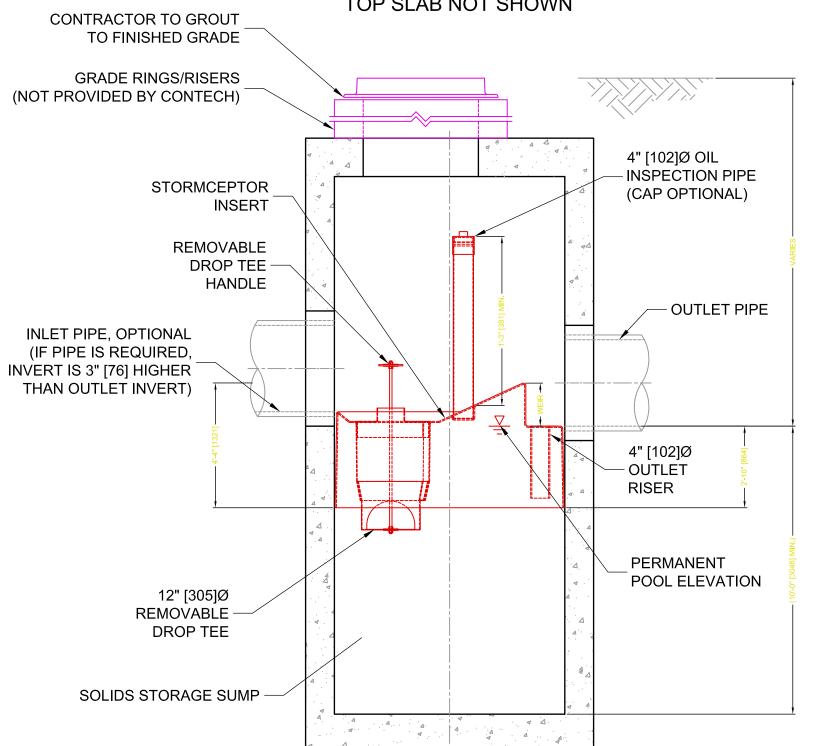


LLISEY





FRAME AND GRATE NOT TO SCALE



STORMCEPTOR DESIGN NOTES

SECTION A-A

THE STANDARD #### CONFIGURATION WITH ROUND, SOLID FRAME AND COVER, AND INLET PIPE IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

GRATED INLET WITH INLET PIPE OR PIPES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED
- STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS
- 4. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO. STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.

6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE
- SPECIFIED BY ENGINEER OF RECORD. B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE

513-645-7993 FAX

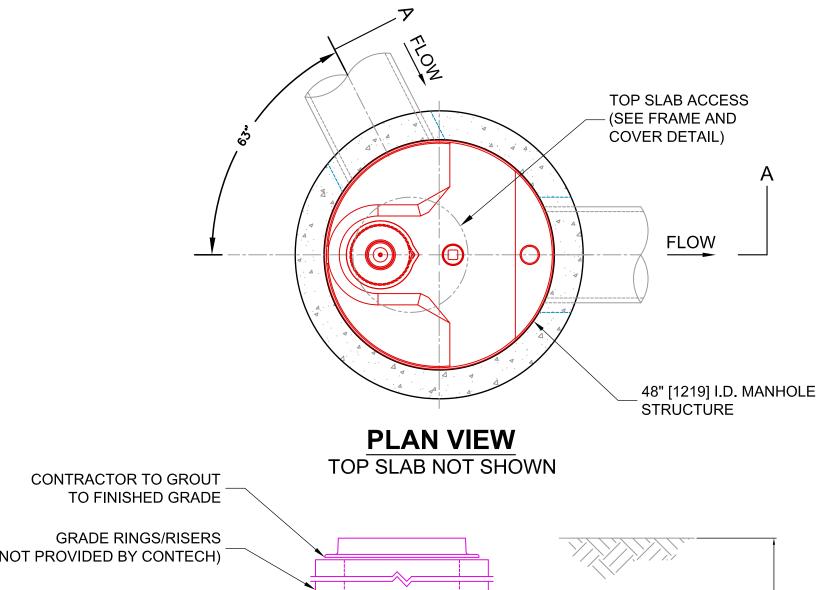
CENTERLINES TO MATCH PIPE OPENING CENTERLINES. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

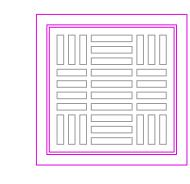
STRUCTURE ID			C.B/G.P.S
WATER QUALITY FL	OW RATE (cfs [L	_/s])	0.114(cfs)
PEAK FLOW RATE (d	cfs [L/s])		4.14 (cfs)
RETURN PERIOD OF	PEAK FLOW (y	rrs)	25 (yrs)
RIM ELEVATION	195.51		
PIPE DATA:	INVERT	MATERIAL	DIAMETE
INLET PIPE 1	189.04	R.C.P.	15"
INLET PIPE 2	N.A.	N.A.	N.A.
OUTLET PIPE	188.80	R.C.P.	18"

Stormceptor*

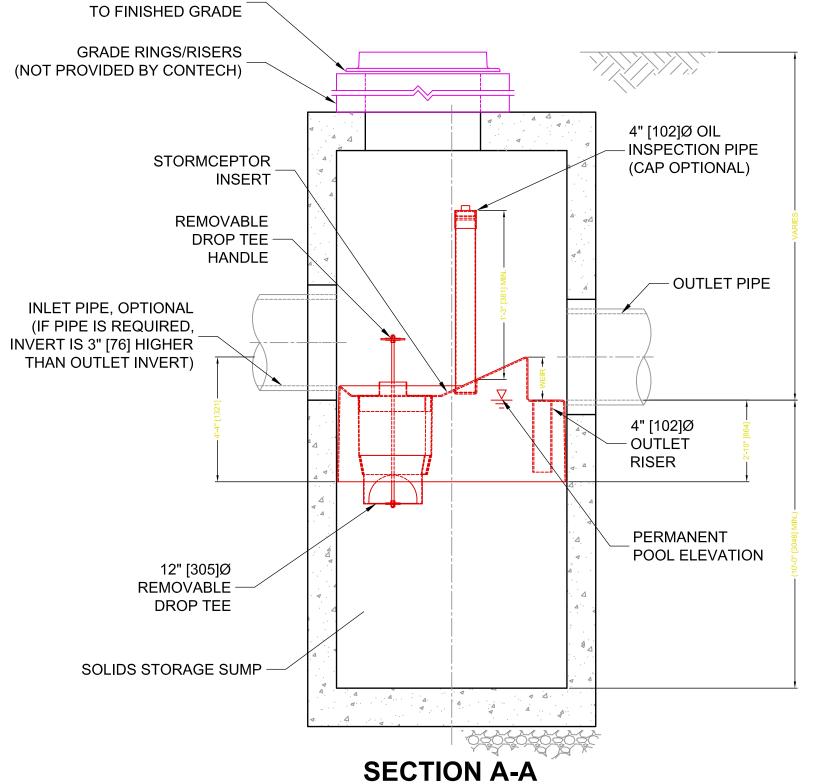


PROPOSED CATCH BASIN / G.P.S. UNIT #2 STORMCEPTOR STANDARD DETAIL





FRAME AND GRATE NOT TO SCALE



STORMCEPTOR DESIGN NOTES

THE STANDARD #### CONFIGURATION WITH ROUND, SOLID FRAME AND COVER, AND INLET PIPE IS SHOWN, ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

GRATED INLET WITH INLET PIPE OR PIPES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED
- STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS
- DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER
- CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD. 6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMCEPTOR MANHOLE
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE
- CENTERLINES TO MATCH PIPE OPENING CENTERLINES. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

SITE SPECIFIC DATA REQUIREMENTS							
STRUCTURE ID			C.B/G.P.S. #3				
WATER QUALITY FLO	W RATE (cfs [L/s	s])	0.285 (cfs)				
PEAK FLOW RATE (cfs	7.13 (cfs)						
RETURN PERIOD OF F	25 (yrs)						
RIM ELEVATION	192.41						
	,						
PIPE DATA:	INVERT	MATERIAL	DIAMETER				
INLET PIPE 1	189.05	R.C.P.	15"				
INLET PIPE 2	N.A.	N.A.	N.A.				
OUTLET PIPE	188.36	R.C.P.	18"				

NOTES / SPECIAL REQUIREMENTS:

Stormceptor*

C NTECH*

ENGINEERED SOLUTIONS LLC www.contechES.com

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 513-645-7993 FAX 800-338-1122 513-645-7000

PROPOSED CATCH BASIN / G.P.S. UNIT #3 STORMCEPTOR STANDARD DETAIL

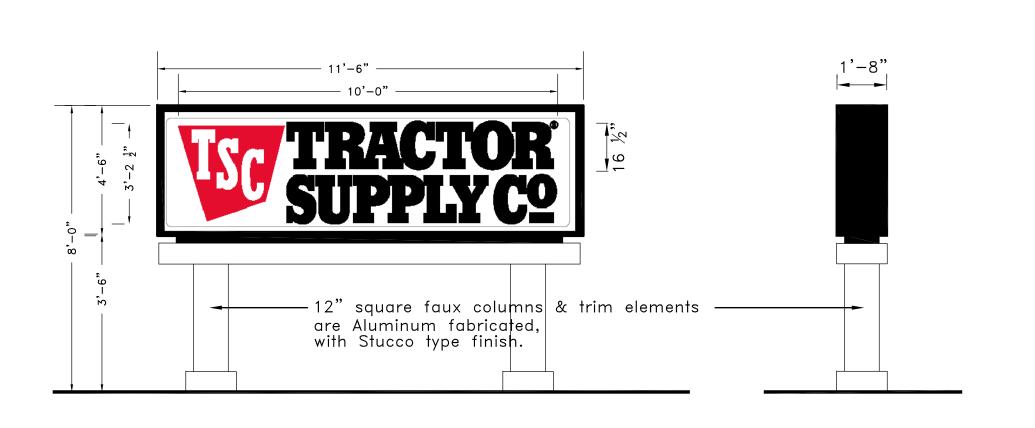


CASSII

PEARSON

LLISEY

800-338-1122 513-645-7000



Elevation: Double Sided Monument Sign TSC AREA=32.0 sq. ft.

<u>End Elevation</u>

<u>General Notes:</u>

Doubled Faced Externally Illuminated, Panned Polycarbonate Face Sign Copy: "TSC — Red Vinyl Logo w/ Negative—Cut Letters to Show White "TRACTOR SUPPLY CO." Black Perforated Vinyl Background: White Panned Polycarbonate w/ White Opaque Vinyl on Backside Cabinet: Painted High Glass Black

PROPOSED MONUMENT SIGN DETAIL

N.T.S.



Doubled Faced Externally Illuminated, Panned Polycarbonate Face Sign
Copy: "TSC — Red Vinyl Logo w/ Negative—Cut Letters to Show White
"TRACTOR SUPPLY CO." Black Perforated Vinyl
Background: White Panned Polycarbonate w/ White Opaque Vinyl on Backside
Cabinet: Painted High Glass Black

PROPOSED TSC WALL MOUNTED SIGN DETAIL



HALLISEY, PEARSON & CASSIDY

CIVIL ENGINEERS & LAND SURVEYORS
630 MAIN STREET, UNIT #1A

CROMWELL, CONNECTICUT 06416

Snow Removal Plan here are many variables to take into consideration when developing a snow removal plan. These factors

include; the amount of snow or ice, the time of the snow or ice, outdoor temperatures, wind conditions, traffic conditions, equipment operation, staffing, and final result desired.

Main entrance sidewalks Perlmeter and secondary entrance sidewalks

- Below is a general list of winter weather conditions listing from lightest to worst.
- Light glazing of ice or snow (less than 1 inch)
 Light Slush (less than 1 inch) Light Snow (1 - 2 inches) Slush (more than 1 inch)
- Medium Snow (3 4 inches Heavy Snow (more than 4 inches

Within each of the above categories there are different factors that affect the response necessary for the removal of the unsafe condition. Below is a general list of those conditions to be aware of:

Time of the arrival of the weather condition (minimal warning, during rush hour, during the middle of the day, middle of the night, etc.).

Temperature
 Amount of available equipment
 Amount of available labor

handle the snow and ice removal necessary for your facility to operate, the store manger is the point person

Must study the weather conditions on a daily basis (utilizing a weather service, the internet, news and personal observation). Must know the availability of staff or snow removal contractor on a 24 hour 7 day a week basis during the winter season. Since there is no definitive plan that will work for all occasions, snow removal plans should be thought of as a timing. There is no simple solution, but there is a process

In October set up a meeting with the snow removal contrator that will be hired for snow. The topics
of the meeting should cover; hours of availability, type of equipment qualified to operate, ways to
reach team members to call into work (this can include home numbers, cell numbers, pagers etc).
From the meeting develop a schedule of availability along with assignments (plow truck operators,

tractor operators, salt truck operators, etc). 2. Now it is time to monitor the weather and develop daily plans. As mentioned earlier the plan is going to vary depending on the weather situation, staffing and equipment. So the point person needs to remain flexible during all times of the day to assign the staff necessary to handle the needs of your facility. When possible the point person should line up the team for snow removal prior to the end of their work shift, this allows them to adjust their schedules at home to get some extra sleep in order to

Snow Removal Plan Process

The plans that are initiated at the beginning of the season should always be more cautious. This is because the people on the team may be new to a certain building or zone, they haven't done it in about a year and could have forgotten the nuances with individual sites, equipment failures are common at the beginning of the season, or any other issue with a new situation. As the season progresses the time allotments can be tightened up and staffing can be minimized. After each time the snow team goes out, fill out a report on the event, what went right and what went wrong, the time amount of snow or if it was ice, how long and who was involved in the process. At the d of the season put the information from the report into a single spreadsheet for reference in the future

First Snowfall of 1" or Less At the beginning of the season on the first snow fall of 1 inch or more send out the full crew, for this snow the allotment of time should be what it would normally take for a 2 - 3 inch snow fall. This allows for a safe learning

For example, on a 2-3 inch snow fall it takes approximately 1 ½ to 1 ½ hours to clear a lot. So if the crew consists of 6 team members and we have 12 sites, the Team should start the process 3 hours prior to the desired completion time. On a typical work day that time is 6:30 AM.

(IN FEET) 1 inch = 30 ft. send out 2 trucks. If there is ample time, then the point person can make the decision to send out a single tru

Salting Only

Any snow that is less than 1 ½ inches is to be salted. If there are only 1 hour, prior to the desired completion time. Rest of the Season

Based on the Information from the first snow fall of 1" or less a decision can be made by the point person on the amount of labor necessary for subsequent snowfalls. Some base time lines to set for snowfall clean up are:

PLANT LIST: **BOTANICAL NAME COMMON NAME** QUANTITY **TREES** LIQUIDAMBAR STYRACIFLUA SWEETGUM 2.5"-3" CALIP. LS 2.5"-3" CALIP. BLACK TUPELO NS NYSSA SYLVATICA 6'-7' HGHT. EMERALD GREEN ARBORVITAE THUJA OCCIDENTALIS

ILEX CRENATA "STEEDS" STEEDS JAPANESE HOLLY 5 GAL. ILEX GLABRA "SHAMR*OC*K" SHARROCK INKBERRY 3 GAL. ROSA "OSO EASY" MANGO SALSA 050 EASY LANDSCAPE ROSE 2 GAL. SPIREA JAPONICA "GOLDMOUND" GOLDMOUND SPIREA 3 GAL.

PERENNIALS / GRASSES / GROUND COVERS MS MISCANTHUS SINENSIS "GRACILLMUS" MAIDEN GRASS

PLANT NOTES:

I. ALL PLANTING MATERIAL TO BE NURSERY GROWN STOCK TO A.A.N. STANDARDS.

2. THE CONTRACTOR SHALL SUPPLY ALL PLANTS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT LIST. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT LIST AND THOSE REQUIRED BY THE DRAWING, THE LARGER NUMBER SHALL APPLY.

3. ALL PLANTS SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE LOCATED ON SITE BY THE CONTRACTOR FOR APPROVAL OF THE LANDSCAPE ARCHITECT OF CIVIL ENGINEER. ANY INSTALLATIONS WHICH WERE NOT APPROVED BY THE LANDSCAPE ARCHITECT OR THE CIVIL ENGINEER AND WHICH ARE SUBSEQUENTLY REQUIRED TO BE MOVED WILL BE DONE AT THE CONTRACTORS EXPENSE.

4. PRECISE LOCATION OF ITEMS NOT DIMENSIONED ON AND PLAN ARE TO BE FIELD STAKED BY THE CONTRACTOR ABD SHALL BE SUBJECT TO THE REQUIREMENTS IN THE PREVIOUS NOTE.

5. ALL SHRUB MASSING AND TREE PITS SHALL BE MULCHED TO A DEPTH OF 3" WITH SHREDDED PINE BARK MULCH.

6. TREES SHALL NOT BE STAKED UNLESS OTHERWISE NOTED.

7. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED VEGETATION AND SHALL REPLACE OR REPAIR ANY DAMAGED MATERIAL, AT HIS OWN EXPENSE. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 411 PRIOR TO CONSTRUCTION.

8. ALL SHRUBS AND GROUND COVER PLANTING AREAS SHALL BE HAVE CONTINUOUS BEDS OF TOPSOIL 12" DEEP. ALL LAWN AREAS SHOULD HAVE A MINIMUM TOPSOIL BED OF 6".

9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FILED. WERE PLANT MATERIAL MAY INTERFERE WITH UTILITIES, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR CIVIL ENGINEER TO COORDINATE THEIR INSTALLATION.

10. FOR PLANTING SOIL MIX, SEE SPECIFICATIONS OR PLANTING DETAILS.

II. ALL EXISTING RILL, GULL OR CHANNEL EROSION SHALL BE FILLED WITH APPROPRIATE BACKFILL MATERIAL, FINE RAKED, SCARIFIED AND STABILIZED WITH APPROPRIATE VEGETATIVE MATERIAL AND/OR APPROPRIATE SEDIMENTATION AND EROSION CONTROL MEASURES.

12. ADJUSTMENTS IN THE LOCATIONS OF THE PROPOSED PLANT MATERIAL AS A RESULT OF EXISTING VEGETATION TO REMAIN SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATI*O*N.

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE REPAIR AND REPLACEMENT OF PLANT MATERIAL, AS REQUIRED, FOR THE DURATION OF THE PROJECT AND SUBSEQUENT WARRANTY PERIOD.

14. PLANTINGS INSTALLED IN THE DRY SUMMER MONTHS AND / OR LAWN SEEDED OUT OF SPRING OR FALL PERIODS, IF ALLOWED BY OWNER, WILL REQUIRE AGGRESSIVE IRRIGATION PROGRAMS AT THE CONTRACTOR'S EXPENSE, UNLESS DIRECTED BY THE OWNER.

15. UPON COMPLETION OF PLANTING, REMOVE FROM SITE ALL EXCESS SOIL, MULCH, AND MATERIALS AND DEBRIS RESULTING FROM WORK OPERATIONS. CLEAN UP SHOULD BE COMPLETED AT THE END OF EACH WORKING DAY. RESTORE TO ORIGINAL CONDITIONS ALL DAMAGED PAVEMENTS, PLANTING AREAS, STRUCTURES AND LAWN AREAS RESULTING FROM LANDSCAPING

16. CONTRACTOR SHALL SURVEY, LOCATE, AND PROTECT ALL TREES WITHIN AREAS SHOWN AS "EXISTING VEGETATION TO REMAIN" WITHIN THE DEVELOPMENT ENVELOPE FOR REVIEW BY LANDSCAPE ARCHITECT OR CIVIL ENGINEER PRIOR TO CLEARING OPERATIONS.

17. CONTRACTOR TO RESEED ALL DISTURBED AREAS.

INSTALLATION SCHEDULE and MAINTENANCE PLAN:

I. PLANTING ONLY UNDER FAVORABLE WEATHER CONDITIONS. PLANTING WILL NOT BE PERMITTED WHEN GROUND IS FROZEN OR EXCESSIVELY MOIST. DECIDIOUS MATERIAL

SPRING: MARCH 21 TO JUNE 01.

FALL: SEPT. 0| TO NOV. 0| - IF PLANTING DURING PEAK SUMMER MONTHS OF JULY AND AUGUST, CONTRACTOR SHALL AGGRESSIVELY IRRIGATE PLANTS TO ENSURE ESTABLISHMENT AND SURVIVAL.

2. DO NOT PLANT WHEN GROUND IS FROZEN, SNOW COVERED, OR MUDDY.

3. THE CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE REPAIR AND REPLACEMENT OF PLANT MATERIAL AS REQUIRED, FOR THE DURATION OF THE PROJECT AND SUBSEQUENT PERIOD OF ONE FULL YEAR FROM COMMENCEMENT OF PLANT INSTALLATION.

SEEDING AND MULCHING SPECIFICATIONS:

SEEDING MAY BE OF A PERMANENT OR TEMPORARY TYPE DEPENDING ON THE TIME OF YEAR IT IS DONE. PERMANENT SEEDING SHOULD BE DONE DURING THE PERIODS OF APRIL | THROUGH JUNE | OR AUGUST | 5 TRROUGH SEPTEMBER |.

DISTURBED AREA THAT ARE TO BE RESEEDED SHALL BE TOPSOILED, LIMED & FERTILIZED PRIOR TO RESEEDING. LABORATORY TESTING OF THE TOPSOIL IS RECOMMENDED TO DETERMINE RATES OF APPLICATION FOR THE LIME AND FERTILIZER. LACKING SUCH TESTING THE FOLLOWING ARE RECOMMENDED:

> 2 TONS/ACRE (90 Ibs./1000 sq. ft.) FERTILIZER (10-10-10) (7.5 | bs./1000 sq. ft.)

SEEDING RECOMMENDATIONS ARE AS FOLLOWS:

MULCH LINE

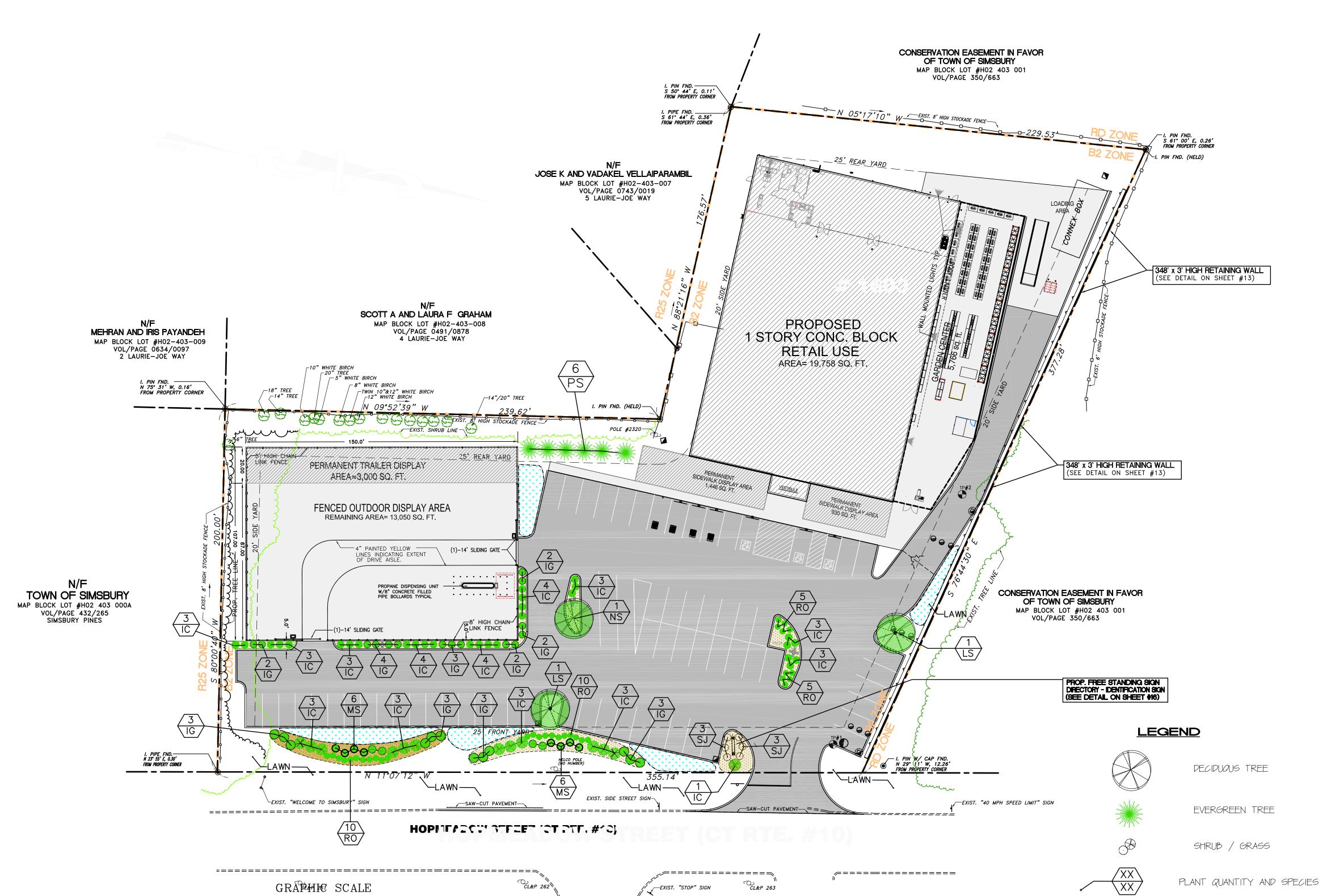
AREA OF SNOW STORAGE

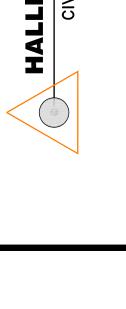
TEMPORARY -ANNUAL RYEGRASS @40LBS./ACRE PERMANENT -KENTUCKY BLUE GRASS @10LBS./ACRE CREEPING RED FESCUE

@20LBS./ACRE PERENNIAL RYEGRASS @5LBS./ACRE TOTAL 45LBS./ACRE

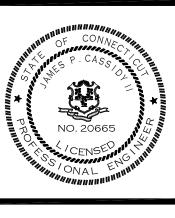
-MULCHING SHALL BE OF A TEMPORARY TYPE, TO PROTECT THE SOIL & SEED FROM EROSION AND TO ALSO PROMOTE PLANT GROWTH. MULCHING SHALL BE DONE AFTER FINAL GRADING AND SEEDING.

-MULCHING RECOMMENDATION ARE AS FOLLOWS: -STRAW OR HAY (FREE FROM WEEDS AND COARSE MATTER) SPREAD WITH MULCH BLOWER OR BY HAND APPLY @ RATE OR 70 - 90 LBS/100 SQ. FT.



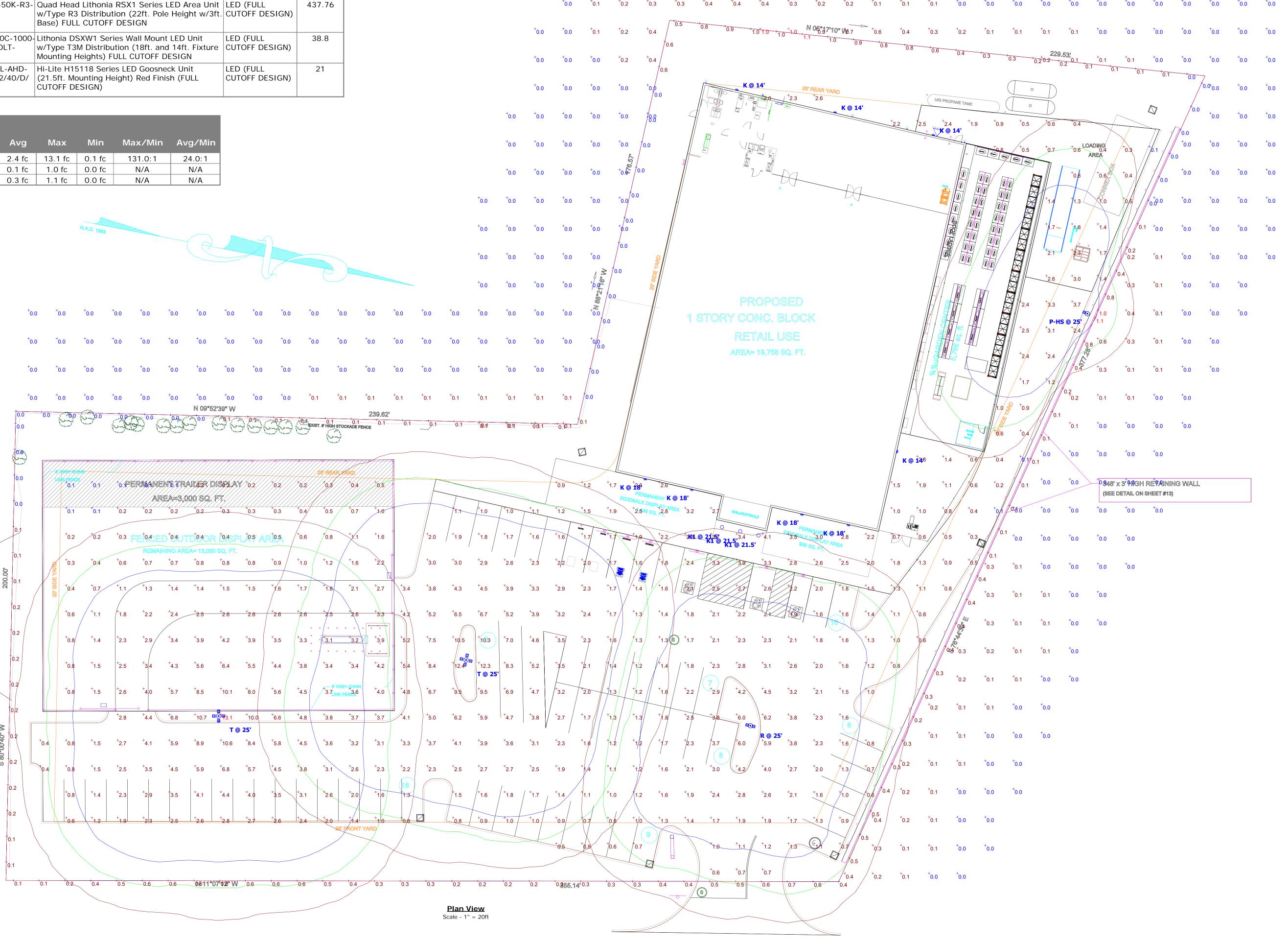


3 GAL.



Schedule									
Symbol	Label	Qty	Catalog Number	Description	Lamp	Wattage			
	P-HS	1	RSX1-LED-P3-50K-R3- MVOLT-SPA-HS	Single Head Lithonia RSX1 Series LED Area Unit w/Type R3 Distribution (22ft. Pole Height w/3ft. Base) HOUSE SIDE SHIELDING & FULL CUTOFF DESIGN	LED (FULL CUTOFF DESIGN)	109.442			
	R	1	RSX1-LED-P3-50K-R3- MVOLT-SPA	Double Head Lithonia RSX1 Series LED Area Unit w/Type R3 Distribution (22ft. Pole Height w/3ft. Base) FULL CUTOFF DESIGN	LED (FULL CUTOFF DESIGN)	218.88			
	Т	2	RSX1-LED-P3-50K-R3- -MVOLT-SPA	Quad Head Lithonia RSX1 Series LED Area Unit w/Type R3 Distribution (22ft. Pole Height w/3ft. Base) FULL CUTOFF DESIGN	,	437.76			
	K	8	DSXW1-LED-10C-1000- -50K-T3M-MVOLT- DDBXD	Lithonia DSXW1 Series Wall Mount LED Unit w/Type T3M Distribution (18ft. and 14ft. Fixture Mounting Heights) FULL CUTOFF DESIGN	LED (FULL CUTOFF DESIGN)	38.8			
	K1	3	H-15118-97/HL-AHD- 27"97/21/LED2/40/D/ BCM-M	Hi-Lite H15118 Series LED Goosneck Unit (21.5ft. Mounting Height) Red Finish (FULL CUTOFF DESIGN)	LED (FULL CUTOFF DESIGN)	21			

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot Light Levels	+	2.4 fc	13.1 fc	0.1 fc	131.0:1	24.0:1
Property Light Spill Levels	+	0.1 fc	1.0 fc	0.0 fc	N/A	N/A
Property Line Light Levels	+	0.3 fc	1.1 fc	0.0 fc	N/A	N/A





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Designer Adam Carrier Date 6/1/2021 Scale Not to Scale Drawing No. Summary

PAINT COLORS
UPPER - SHERWIN WILLIAMS #SW7532 "URBAN PUTTY" LOWER - SHERWIN WILLIAMS #SW7513 "SANDERLING"

