

August 2, 2022

Attorney Melanie Bachman Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

RE: Petition #1469 -- LSE Indus LLC Petition for a Declaratory Ruling that No Certificate of Environmental Compatibility and Public Need is Required for the Construction, Operation and Maintenance of Solar Photovoltaic Facility in North Canaan, Connecticut

Dear Attorney Bachman:

In accordance with the Council's decision dated January 28, 2022 (the "Approval"), petitioner LSE Indus LLC ("Lodestar") submits the following in accordance with the Council's Approval, conditions #3, 5 and 6. Please let me know if you have any questions.

- 1. Lodestar is submitting these revised plans for Council staff approval of minor changes in site layout, attached hereto as <u>Exhibit 1</u>. Please note that the changes include revisions to the detention basins and the addition of drip edge protection as requested by the Department of Energy and Environmental Protection's ("DEEP") stormwater division as part of Lodestar's general stormwater permit process. As a result of the stormwater design revisions the overall development area has incurred a reduction of .29 acres. Given these minor changes that result in less overall impact, Lodestar respectfully requests Council approval of such change.
- 2. In regards to *condition #3* requiring a pollinator seed mix: please note that, based on the recommendations of Lodestar's engineering and environmental professionals and in coordination with DEEP's stormwater team, Lodestar is proposing to utilize a non-pollinator mix—Ernst Solar Farm Mix ERNMX-186—for temporary stabilization of the Site given the existing slopes on the site. Final stabilization seeding has been updated to include the Ernst Fuzz and Buzz mix premium ERNMX-147 pollinator mix. As you will see in sheets EC-1 and DN-1 of the plan set, this pollinator mix will be utilized to achieve final stabilization.
- 3. In addition, please find the specifications for the newly-proposed solar panels attached hereto as <u>Exhibit 2</u>. The original petition indicated that Lodestar would be utilizing Hanwa QCell panels. Due to availability as further discussed herein,

Lodestar will be utilizing ZNShine, Item/Model Number: ZXM7-SHLDD144 Module Size: 540. Based on the panel model change, the total panel count for the Project will be reduced from the originally-proposed 5,902 to 4,966 panels.

By way of background, Lodestar would like to provide additional detail on the module procurement process. The module market and availability has been quickly evolving and has been particularly volatile as a result of the COVID-19 worldwide pandemic, supply chain disruptions and as a result of federal import tariff policy. In the time that is taken to file our petition with the Council, obtain an approval and stormwater permit, many of the modules that Lodestar has obtained information on are no longer available for purchase in the market. In this instance, Lodestar was unable to procure the Hanwa QCell panels proposed in its initial design.

Please note that the manufacturer of the ZNShine modules does not have TCLP testing available for these modules and, in fact, Lodestar was unable to locate any modules available for purchase and compatible with the Project design that did provide TCLP testing prior to purchase. The only other way to conduct TCLP testing is to have the specific type of module physically available to do so. In order for that to occur, Lodestar has to purchase and schedule for delivery the full quantity of modules required for the Project. As the Council can imagine, this puts Lodestar in the untenable position of incurring the full cost (over \$1 million) to order material prior to confirmation that the modules can comply with the Council's condition. Notwithstanding, Lodestar is committed to performing the TCLP testing upon delivery of the modules to the Site and prior to installation.

While Lodestar does not anticipate that the modules would fail the TCLP testing, Lodestar wishes to note that, in the unlikely event that that would occur, it would *only* impact the process utilized to decommission the panels at the end of the useful life of the Project. Lodestar is committed to removing the Project in accordance with all applicable environmental regulations. Lodestar will provide the results of the TCLP testing once completed.

4. Please find enclosed as <u>Exhibit 3</u> a copy of the spill prevention plan as included in Lodestar's stormwater permit application, as required by *condition #6*.

Please contact me directly if you have any questions.

Sincerely,

Carrie Larson Ortolano

Carrie Larson Ortolano

Enclosures

<u>EXHIBIT 1</u> Revised Site Plans



LIST OF DRAWINGS

- T-1 TITLE SHEET & INDEX
- 1 OF 1 PROPERTY & TOPOGRAPHIC SURVEY **PROVIDED BY MARTIN SURVEYING ASSOCIATES, LLC**
- **GN-1 GENERAL NOTES**
- **OP-1 OVERALL LOCUS MAP**
- **EC-1 SEDIMENTATION & EROSION CONTROL NOTES**
- EC-2 SEDIMENTATION & EROSION CONTROL DETAILS
- EC-3 PHASE 1 SEDIMENTATION & EROSION CONTROL PLAN
- EC-4 PHASE 1 SEDIMENTATION & EROSION CONTROL PLAN
- EC-5 PHASE 2 SEDIMENTATION & EROSION CONTROL PLAN
- EC-6 PHASE 2 SEDIMENTATION & EROSION CONTROL PLAN
- GD-1 FINAL GRADING & DRAINAGE PLAN
- GD-2 FINAL GRADING & DRAINAGE PLAN
- SP-1 SITE & UTILITY PLAN
- SP-2 SITE & UTILITY PLAN
- DN-1 SITE DETAILS
- DN-2 SITE DETAILS

"BUNCE 1 SOLAR FACILITY"

LSE INDUS LLC

81 EAST MAIN ST NORTH CANAAN, CT

SITE INFORMATION

APPROX. VOLUME OF FILL: 2,845± CY

APPROX. NET VOLUME: $574 \pm CY$ OF CUT

| SITE NAME: | "BUNCE 1 SOLAR FACILITY" |
|--|--|
| LOCATION: | 81 EAST MAIN ST NORTH CANAAN, CT |
| SITE TYPE/DESCRIPTION: | ADD (4) GROUND MOUNTED SOLAR PANEL ARRAYS W/ ASSOCIATED EQUIPMENT, GRAVEL ACCESS ROAD, AND STORMWATER MANAGEMENT. |
| PROPERTY OWNER: | JOHN BUNCE 81 EAST MAIN ST NORTH CANAAN, CT |
| APPLICANT: | LSE INDUS LLC 40 TOWER LANE, SUITE 201 AVON, CT 06001 |
| ENGINEER CONTACT: | KEVIN A. MCCAFFERY, P.E. (860) 663-1697 x228 |
| LATITUDE: LONGITUDE: | 42°1'18.16" N 73°18'46.48" W |
| MBLU: ZONE: | 16-50-0 R-25 |
| TOTAL SITE ACREAGE: TOTAL DISTURBED AREA: | 67.41± AC. 11.33± AC. |
| APPROX. VOLUME OF CUT: | 3,419± CY |



SCALE : 1" = 2000'±







GENERAL NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH PROJECT DEVELOPER STANDARDS, TOWN OF NORTH CANAAN STANDARDS, CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
- IF NO PROJECT CONSTRUCTION SPECIFICATION PACKAGE IS PROVIDED BY THE PROJECT DEVELOPER OR THEIR REPRESENTATIVE, THE CONTRACTOR SHALL COMPLY WITH THE MANUFACTURER, TOWN OF NORTH CANAAN, OR CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND BE IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- THE PROJECT DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING AND STORMWATER PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL TOWN OF NORTH CANAAN CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- REFER TO PLANS, DETAILS AND REPORTS PREPARED BY ALL-POINTS TECHNOLOGY CORPORATION FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE PROJECT DEVELOPER 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/CONSTRUCTION. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE PROJECT DEVELOPERS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS PER PLANS, AND SPECIFICATIONS TO THE PROJECT DEVELOPER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- SHOULD ANY UNKNOWN OR INCORRECTLY LOCATED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE PROJECT DEVELOPER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE PROJECT DEVELOPER OR OTHERS DURING OCCUPIED HOURS, EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE PROJECT DEVELOPER AND THE LOCAL MUNICIPALITY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
- 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.
- 10. THE CONTRACTOR SHALL COMPLY WITH OSHA CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
- . THE ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OF PERSONNEL OR TO SUPERVISE SAFETY AND DO NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- 12. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, CONDUIT, PAVEMENT, CURBING, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE PROJECT DEVELOPER OR TOWN OF NORTH CANAAN.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE PROJECT DEVELOPER AT THE END OF CONSTRUCTION.
- 14. ALTERNATIVE METHODS AND PRODUCTS, OTHER THAN THOSE SPECIFIED, MAY BE USED IF REVIEWED AND APPROVED BY THE PROJECT DEVELOPER, ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING/CONSTRUCTION PROCESS.
- 15. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER 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 "811" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
- 16. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS AND PERMITS ARE GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.

SITE PLAN NOTES

- 2. THERE ARE BORDERING VEGETATED WETLANDS (BVW/S) LOCATED ON THE SITE AS INDICATED TECHNOLOGY CORPORATION, IN APRIL AND JULY 2021.
- CONSTRUCTION. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.

- CONSULTANT.

1. THE SURVEY WAS PROVIDED BY MARTIN SURVEYING ASSOCIATES, LLC. DATED APRIL 6, 2021.

ON THE PLANS. BVW BOUNDARIES WERE FLAGGED AND LOCATED BY ALL-POINTS

3. THERE WILL BE MINIMAL GRADING ON SITE WITHIN THE ARRAY AREA IN THE AREAS OF THE MINOR CLEARING, TO ENSURE THAT PROPER DRAINAGE IS MAINTAINED. GRADING WILL BE PROPOSED FOR THE REQUIRED STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES.

4. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDED SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION CONTROL PLAN OR SUBMIT AN ALTERNATE PLAN FOR APPROVAL BY THE ENGINEER AND/OR PERMITTING AGENCIES PRIOR TO THE START

5. PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR BVWS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. IN ADDITION, THE CONTRACTOR SHALL ADHERE TO THE "EROSION CONTROL PLAN" CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY GOVERNMENT AGENCIES WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.

6. ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK, SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE THIS WORK SHALL CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION AND PROJECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN 8" LIFTS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT 95% PERCENT OF OPTIMUM MOISTURE CONTENT.

7. ALL DISTURBANCE INCURRED TO PUBLIC, MUNICIPAL, COUNTY, STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OF NORTH CANAAN AND STATE OF CONNECTICUT.

8. IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE PROJECT DEVELOPER AND/OR PROJECT DEVELOPER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE PROJECT DEVELOPER AND/OR PROJECT DEVELOPER'S ENVIRONMENTAL

UTILITY NOTES

- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE TOWN OF NORTH CANAAN TO SECURE CONSTRUCTION PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
- 2. REFER TO DRAWINGS BY PROJECT DEVELOPER FOR THE ONSITE ELECTRICAL DRAWINGS AND INTERCONNECTION TO EXISTING ELECTRICAL GRID. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT. THESE DETAILS ARE NOT INCLUDED IN THESE PLANS.
- 3. UTILITY LOCATIONS AND PENETRATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE ELECTRICAL ENGINEER AND THE PROJECT DEVELOPER'S CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROP. SANITARY SEWERS AND WHERE PROP. STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE PROJECT DEVELOPER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- 5. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
- 6. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.
- 7. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- 8. ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY THE TOWN OF NORTH CANAAN.
- 9. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 10. RELOCATION OF UTILITY PROVIDER FACILITIES, SUCH AS POLES, SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.
- 11. THE CONTRACTOR SHALL COMPACT PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.
- 12. CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.
- 13. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER REQUIREMENTS.
- 14. A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM PIPING SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM PIPING AND SANITARY SEWER. A 6-INCH TO 18-INCH VERTICAL CLEARANCE BETWEEN SANITARY SEWER PIPING AND STORM PIPING SHALL REQUIRE CONCRETE ENCASEMENT OF THE SANITARY PIPING.
- 15. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, CONDUIT, PAVEMENT, CURBING, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION, TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE PROJECT DEVELOPER AND TOWN OF NORTH CANAAN.
- 16. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY, AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE INCLUDING SERVICES. CONTACT "CALL BEFORE YOU DIG" AT 811 72 HOURS PRIOR TO CONSTRUCTION AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY AND STORM DRAINAGE LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROP. UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.
- 17. THE CONTRACTOR SHALL ARRANGE AND COORDINATE WITH UTILITY PROVIDERS FOR WORK TO BE PERFORMED BY UTILITY PROVIDERS. THE CONTRACTOR SHALL PAY ALL UTILITY FEES UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATION MANUAL AND GENERAL CONDITIONS, AND REPAIR PAVEMENTS AS NECESSARY
- 18. ELECTRIC DRAWINGS AND REQUIREMENTS ARE NOT INCLUDED AS PART OF THIS DRAWING SET AND SHOULD BE OBTAINED FROM THE PROJECT DEVELOPER.
- 19. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE PROJECT DEVELOPER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- 20. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE PROJECT DEVELOPER, TOWN OF NORTH CANAAN, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.

| PROPERTY LINE PROPOSED BUILDING SETBACK | POINTS CORPORATION TENSION - SUITE 311 |
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| GENERAL | |
| SHEET NUMBER: GN-1 | . NOTES |



EROSION CONTROL NOTES

- GRUBBING AND DEMOLITION OPERATIONS.
- MAINTENANCE.
- THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.
- TIMELY MANOR.
- PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.
- CONTRACT SPECIFICATIONS.
- REPAIRED DURING CONSTRUCTION.
- EXITING.
- CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER.
- SEEDED AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- MUNICIPALITY.
- REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.
- CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.
- CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.
- WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.
- THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM PERMITTEE OR THE MUNICIPALITY.
- MEASURES (I.E. STRAW BALES, WATTLES, ETC.), AND HYDROSEEDING WITH RAPIDLY GERMINATING SEED.

SEDIMENT & EROSION CONTROL NARRATIVE EROSION AND SEDIMENT CONTROL PLAN NOTES 1. THE PROJECT INVOLVES THE CONSTRUCTION OF A GROUND MOUNTED SOLAR PANEL FACILITY WITH ASSOCIATED EQUIPMENT, INCLUDING THE CLEARING, THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION GRUBBING AND GRADING OF APPROXIMATELY 11.33 ± ACRES OF EXISTING LOT. AND SEDIMENT CONTROL, LATEST EDITION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE TOWN OF NORTH CANAAN, PERMITTEE, AND/OR SWPCP MONITOR. ALL PERIMETER SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION: A. CLEARING, GRUBBING, AND GRADING OF EXISTING LOT. THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. SEE CONSTRUCTION SEQUENCE FOR B. CONSTRUCTION OF 4,966 GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT. ADDITIONAL INFORMATION. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN B. THE STABILIZATION OF DISTURBED AREAS WITH PERMANENT VEGETATIVE TREATMENTS. AS REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO STORM DRAINAGE SYSTEMS AND/OR WATERCOURSES. ACTUAL SITE CONDITIONS OR SEASONAL AND CLIMATIC CONDITIONS MAY WARRANT ADDITIONAL CONTROLS OR 2. FOR THIS PROJECT, THERE ARE APPROXIMATELY 11.33 ± ACRE OF THE SITE BEING DISTURBED WITH NEGLIGIBLE INCREASE IN THE IMPERVIOUS AREA OF THE CONFIGURATIONS, AS REQUIRED, AND AS DIRECTED BY THE PERMITTEE AND/OR SWPCP MONITOR. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER SITE, AS ALL ACCESS THOUGH THE SITE WILL BE GRAVEL. IMPERVIOUS AREAS ARE LIMITED TO THE CONCRETE PADS FOR ELECTRICAL EQUIPMENT. CONTRACT PLANS FOR APPROPRIATE INFORMATION. 3. THE PROJECT SITE, AS MAPPED IN THE SOIL SURVEY OF STATE OF CONNECTICUT (NRCS, VERSION 20, JUN 9, 2020), CONTAINS TYPE 61B, 73C, 90B, AND 90D A BOND OR LETTER OF CREDIT MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND (HYDROLOGIC SOIL GROUP B), AND 49B (HYDROLOGIC SOIL GROUP C). A GEOTECHNICAL ENGINEERING REPORT HAS NOT BEEN COMPLETED. 4. IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 3-4 MONTHS. 4. THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE 5. REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPAL OFFICIALS, OR ANY GOVERNING IN THE ON-SITE CONSTRUCTION PHASES. AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN 6. STORMWATER MANAGEMENT DESIGN CRITERIA UTILIZES THE APPLICABLE SECTIONS OF THE 2004 CONNECTICUT STORMWATER QUALITY MANUAL AND THE TOWN OF NORTH CANAAN STANDARDS, TO THE EXTENT POSSIBLE AND PRACTICABLE FOR THIS PROJECT ON THIS SITE. EROSION AND SEDIMENTATION THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR INSTALLED SEDIMENTATION MEASURES ARE BASED UPON ENGINEERING PRACTICE, JUDGEMENT AND THE APPLICABLE SECTIONS OF THE CONNECTICUT EROSION AND SEDIMENT CONTROL AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A STORM GUIDELINES FOR URBAN AND SUBURBAN AREAS, LATEST EDITION. WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS AS NECESSARY IN A 7. DETAILS FOR THE TYPICAL STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON THE PLAN SHEETS OR PROVIDED AS SEPARATE SUPPORT DOCUMENTATION FOR REVIEW IN THIS PLAN. THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (SILT FENCE, COMPOST FILTER SOCK, EROSION CONTROL BLANKET, ETC.) ON-SITE FOR 8. CONSERVATION PRACTICES TO BE USED DURING CONSTRUCTION: A. STAGED CONSTRUCTION; ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA 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 PROCTOR OR AS SPECIFIED IN THE B. MINIMIZE THE DISTURBED AREAS TO THE EXTENT PRACTICABLE DURING CONSTRUCTION; C. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT MEASURES AS SOON AS POSSIBLE, BUT NO LATER THAN 7-DAYS FOLLOWING DISTURBANCE; D. MINIMIZE IMPERVIOUS AREAS; PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING, ORANGE SAFETY FENCE, CONSTRUCTION TAPE, OR EQUIVALENT FENCING/TAPE. ANY LIMB E. UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES. TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND 9. THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN: CONSTRUCTION ENTRANCES (ANTI-TRACKING PADS) SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE A. STORMWATER MANAGEMENT REPORT DATED OCTOBER 2021, REVISED FEBRUARY 2022. MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION IF REQUIRED. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF B. SWPCP DATED OCTOBER 2021, REVISED FEBRUARY 2022. CONSTRUCTION ARE COMPLETED. CONTRACTOR SHALL ENSURE THAT ALL VEHICLES EXITING THE SITE ARE PASSING OVER THE ANTI-TRACKING PADS PRIOR TO SUGGESTED CONSTRUCTION SEQUENCE 10. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE ACTIVITIES AND WEATHER CONDITIONS. SHOULD THE CONTRACTOR ALTER THE CONSTRUCTION SEQUENCE OR ANY EROSION AND SEDIMENTATION CONTROL MEASURES THEY SHALL MODIFY THE STORMWATER POLLUTION CONTROL PLAN ("SWPCP") AS REQUIRED BY THE GENERAL PERMIT. MAJOR CHANGES IN SEQUENCING AND/OR METHODS MAY REQUIRE REGULATORY APPROVAL PRIOR TO IMPLEMENTATION. 11. NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS. ALL SLOPES SHALL BE 1. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE LIMITS OF DISTURBANCE IN THE FIELD AS NECESSARY TO 12. DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE CONFORMING TO THE GUIDELINES WITHIN THE APPROVED LIMIT OF DISTURBANCE IF FACILITATE THE PRE-CONSTRUCTION MEETING. REQUIRED. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE PERMITTEE OR 2. CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER'S REPRESENTATIVE(S), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON 13. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES AND SECURED APPROPRIATELY. THE CONTRACTOR SHALL TAKE ALL NECESSARY CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING. PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND 3. NOTIFY CALL BEFORE YOU DIG AT 811, AS REQUIRED, PRIOR TO THE START OF CONSTRUCTION. 14. 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 PHASE 1 NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY 4. REMOVE EXISTING IMPEDIMENTS AS NECESSARY AND PROVIDE MINIMAL CLEARING AND GRUBBING TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCE/S. 5. CLEAR ONLY AS NEEDED TO INSTALL THE PERIMETER EROSION AND SEDIMENTATION CONTROL MEASURES AND, IF APPLICABLE, TREE PROTECTION. ALL 15. SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. WETLAND AREAS SHALL BE PROTECTED BEFORE MAJOR CONSTRUCTION BEGINS. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM 6. INSTALL PERIMETER EROSION CONTROL. 16. VEGETATIVE ESTABLISHMENT SHALL OCCUR ON ALL DISTURBED SOIL. UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION. IT IS COVERED IN STONE OR 7. INSTALL PERMANENT GRASSED STORMWATER MANAGEMENT BASINS B-1B, B-1C, B-1D, B-1E, B-2, B-3, AND B-4. UPON COMPLETION OF THE INSTALLATION SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED AND STABILIZATION OF THE BASINS, PHASE 2 WORK UP GRADIENT CAN PROCEED. PHASE 2 17. MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP CONCRETE PADS, CLEAN THE STORMWATER MANAGEMENT SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE 8. UPON COMPLETION OF THE INSTALLATION OF EACH OF THE PERMANENT GRASSED STORMWATER MANAGEMENT BASINS AND REQUIRED PERIMETER CONTROLS; THE AREAS UPSTREAM CAN HAVE THE REMAINING ARRAY AREA CLEARING AND GRUBBING COMPLETED AS REQUIRED. REMOVE CUT WOOD AND STOCKPILE FOR FUTURE USE OR REMOVE OFF-SITE. REMOVE AND DISPOSE OF DEMOLITION DEBRIS OFF-SITE IN ACCORDANCE WITH APPLICABLE LAWS. 18. THE SITE WAS DESIGNED TO COMPLY WITH FEDERAL, STATE, AND, IF APPLICABLE, LOCAL STANDARDS, PLUS CURRENT ACCEPTED PRACTICES FOR THE INDUSTRY. ADDITIONAL CONTROLS AND ACTIVITIES MAY BE DEEMED NECESSARY BY THE SWPCP MONITOR DURING CONSTRUCTION AS A RESULT OF UNFORESEEN 9. TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE. CONDITIONS AND/OR MEANS AND METHODS. SUCH ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO: ADDITIONAL FOREBAYS, BASINS, OR UPSTREAM STRUCTURAL CONTROLS, THE USE OF FLOCCULANTS OF FLOCK LOGS TO DECREASE SEDIMENT, DISCHARGE MANAGEMENT SUCH AS ADDITIONAL ARMORING AND FILTERING FINAL GRADING & DRAINAGE PLAN (PHASE 3) 10. INSTALL CONCRETE EQUIPMENT PADS. 19. SEEDING MIXTURES SHALL BE ERNST SOLAR FARM SEED MIX (ERNMX-186) DURING CONSTRUCTION AND ERNST FUZZ & BUZZ MIX (ERNMX-147) FOR FINAL STABILIZATION (SEE SITE DETAILS SHEET DN-1), OR APPROVED EQUAL BY OWNER. 11. INSTALL ELECTRICAL CONDUITS. 12. INSTALL RACKING POSTS FOR GROUND MOUNTED SOLAR PANELS. VE AND REPLACE THE 13. INSTALL GRAVEL DRIP EDGE PROTECTION. ERVED. 14. INSTALL REMAINDER OF RACKING AND GROUND MOUNTED SOLAR PANELS AND COMPLETE ELECTRICAL INSTALLATION. ERVED. REMOVE SILT 15. AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION OF THE SOLAR PANELS, COMPLETE REMAINING SITE WORK, INCLUDING ANY REQUIRED LANDSCAPE SCREENING, AND STABILIZE ALL DISTURBED AREAS. 16. FINE GRADE, RAKE, SEED AND MULCH ALL REMAINING DISTURBED AREAS. FINAL STABILIZATION SEEDING SHALL BE ERNST FUZZ & BUZZ MIX OR APPROVED ND MULCH EQUAL. 17. AFTER THE SITE IS DEEMED TO HAVE ACHIEVED FINAL STABILIZATION AND WITH THE APPROVAL OF THE PERMITTEE, REMOVE PERIMETER EROSION AND

| CONSTRUCTION OPERATION AND MAINTENANCE PLAN - BY CONTRACTOR | | | | | |
|---|--|--|--|--|--|
| E&S MEASURE | INSPECTION SCHEDULE | MAINTENANCE REQUIRED | | | |
| CONSTRUCTION ENTRANCE | DAILY | PLACE ADDITIONAL STONE, EXTEND THE LENGTH OR REMOV STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT. | | | |
| COMPOST FILTER SOCK | WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25" | REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSI | | | |
| SILT FENCE | WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25" | REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSI WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE. | | | |
| TOPSOIL/BORROW STOCKPILES | DAILY | REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY. | | | |
| TEMPORARY SOIL PROTECTION | WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25" | REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AN | | | |

PERMANENTLY SEEDED. 18. THE SITE SHALL BE MONITORED ONCE A MONTH FOR TWO FULL GROWING SEASONS (APRIL - OCTOBER).

SEDIMENTATION CONTROLS AND CLEAN PERMANENT STORMWATER GRASS LINED BASINS. ANY AREAS DISTURBED DURING CLEAN UP SHALL BE

19. ISSUE NOTICE OF TERMINATION UPON COMPLETION OF MONITORING REQUIRED PER CT DEEP CONSTRUCTION GP APPENDIX I.

40 TOWER LANE, SUITE 201 AVON, CT 06001 POINTS HNOLOGY CORPORATION 567 VAUXHALL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385 PHONE: (860)-663-169 WWW.ALLPOINTSTECH.COM FAX: (860)-663-093 PERMIT SET NO DATE REVISION 0 10/19/21 FOR REVIEW: KAM 1 02/16/22 FOR REVIEW: KAM 2 05/26/22 FOR REVIEW: KAM 3 08/02/22 FOR REVIEW: KAM 4 6 DESIGN PROFESSIONAL OF RECORD PROF: KEVIN A. MCCAFFERY, P.E. COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C. ADD: 567 VAUXHALL STREET **EXTENSION - SUITE 311** WATERFORD, CT 06385 OWNER: JOHN BUNCE ADDRESS: 81 EAST MAIN ST NORTH CANAAN, CT **BUNCE 1 SOLAR FACILITY** SITE 81 EAST MAIN ST ADDRESS: NORTH CANAAN, CT APT FILING NUMBER: CT606140 DRAWN BY: JT DATE: 10/19/21 CHECKED BY: KAM SHEET TITLE: **SEDIMENTATION & EROSION CONTROL** NOTES SHEET NUMBER:

LSE INDUS LLC

| - STAKE 60" MIN.; 6' O.C. (TYP.) - COMMERCIAL TYPE 'C' SILT FILTER FABRIC (TYP.) (W/ WIRE FENCING, WHERE REQUIRED) | PAVED ROADWAY |
|---|--|
| UP-GRADIENT FLOW COMPACTED BACKFILL 24" MIN. DEPTH | ASTM C-33 #2 STONE ON FILTER FABRIC MARAFI 140(N) OR APPROVED EQUAL |
| NOTE: SILT FENCE SHALL BE LAPPED ONLY WHEN NECESSARY PER THE MANUFACTURER RECOMMENDATIONS. 1 SILT FENCE DETAIL EC-2 SCALE : N.T.S. | 2 EC-2 EC-2 CONSTRUCTION ENTRANCE DETAIL SCALE : N.T.S. |

-4" MIN.



SINGLE ROW OF COMPOST FILTER SOCK

3 MATERIALS STOCKPILE DETAIL EC-2 SCALE : N.T.S.

SOIL/AGGREGATE STOCKPILE OF EXISTING SITE MATERIAL TO BE REUSED AND/OR NEW MATERIAL TO BE INSTALLED IN THE WORK

NOTES:

1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.

- DIRECTION OF RUN-OFF FLOW (TYP.)

2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.

3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.

4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.









1. BEGIN AT THE LOCATION WHERE THE SOCK IS TO BE INSTALLED BY EXCAVATING A 2-3" (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE

2. PLACE THE SOCK IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE SOCK ON THE UPHILL SIDE. SOCKS SHALL BE INSTALLED IN 60 FT CONTINUOUS LENGTHS WITH ADJACENT SOCKS TIGHTLY ABUT. EVERY 60 FT THE SOCK ROW SHALL BE SPACED 12 INCHES CLEAR, END TO END, FOR AMPHIBIAN AND REPTILE TRAVEL. THE OPEN SPACES SHALL BE STAGGERED MID LENGTH OF THE NEXT DOWN GRADIENT SOCK.

3. SECURE THE SOCK WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 -1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE SOCK LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE SOCK. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

COMPOST FILTER SOCK SEDIMENTATION CONTROL BARRIER



2. NO JOINING FENCE SECTIONS SHALL BE

INSTALLED WITHIN 30 FEET OF WING.

5 SILT FENCE WING DETAIL EC-2 SCALE : N.T.S.



LSE INDUS LLC











4" TOP COURSE - ROLLED BANK RUN GRAVEL CONFORMING TO CTDOT FORM 817 M.02.03 AND M.02.03 GRADATION "C" OR COMPACTED $1\frac{1}{4}$ PROCESSED TRAPROCK MIX

6" BINDER COURSE - ROLLED BANK RUN GRAVEL CONFORMING TO CTDOT FORM 817 M.02.03 AND M.02.06 GRADATION "A"

(MIRAFI 140N OR APPROVED EQUAL)

| | Common Name | Price/Lb |
|------------------|---|----------|
| loid | Perennial Ryegrass, 'Crave', Tetraploid | 4.20 |
| | Orchardgrass, Potomac | 4.32 |
| | Kentucky Bluegrass, 'Ginger' (pasture type) | 5.52 |
| | Meadow Brome, 'Fleet' | 8.64 |
| | Alsike Clover | 3.90 |
| | Slender Wheatgrass | 8.40 |
| e, Duo | Festulolium, 'Duo' | 3.60 |
| ot Stated | Crimson Clover, Variety Not Stated | 3.00 |
| riety Not Stated | Red Clover, Medium, Variety Not Stated | 5.40 |
| - | Sideoats Grama, Butte | 15.95 |
| | Bird's Foot Trefoil, 'Leo' | 9.60 |
| | Perennial Blue Flax | 48.00 |
| otype | Partridge Pea, PA Ecotype | 7.20 |
| | Blue Chicory | 19.20 |
| | Aromatic Aster, PA Ecotype | 336.00 |
| | Oxeye Daisy | 38.40 |
| | Lanceleaf Coreopsis | 28.80 |
| pe | Ohio Spiderwort, PA Ecotype | 192.00 |
| | Golden Alexanders, PA Ecotype | 96.00 |
| 9 | Zigzag Aster, PA Ecotype | 432.00 |
| | Gray Goldenrod, PA Ecotype | 264.00 |
| | Common Milkweed, PA Ecotype | 96.00 |
| | Mix Price/Lb Bulk: | \$11.27 |

LSE INDUS LLC 40 TOWER LANE, SUITE 201 AVON, CT 06001 ALL-POINTS TECHNOLOGY CORPORATION 567 VAUXHALL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385 PHONE: (860)-663-1697 WWW.ALLPOINTSTECH.COM FAX: (860)-663-093 PERMIT SET NO DATE REVISION 0 10/19/21 FOR REVIEW: KAM 1 02/16/22 FOR REVIEW: KAM 2 05/26/22 FOR REVIEW: KAM 3 08/02/22 FOR REVIEW: KAM 4 5 6 DESIGN PROFESSIONAL OF RECORD PROF: KEVIN A. MCCAFFERY, P.E. **COMP: ALL-POINTS TECHNOLOGY** CORPORATION, P.C. ADD: 567 VAUXHALL STREET **EXTENSION - SUITE 311** WATERFORD, CT 06385 OWNER: JOHN BUNCE ADDRESS: 81 EAST MAIN ST NORTH CANAAN, CT **BUNCE 1 SOLAR FACILITY** SITE 81 EAST MAIN ST ADDRESS: NORTH CANAAN, CT APT FILING NUMBER: CT606140 DRAWN BY: JT DATE: 10/19/21 CHECKED BY: KAM SHEET TITLE: SITE DETAILS

SHEET NUMBER:

LINER ANCHOR DETAIL SCALE : N.T.S.

<u>5 HDPE STORM DRAINAGE TRENCH DETAIL</u>

INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. 6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE

BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (7S0mm-900mm). INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED

EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE

OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION. 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL 3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL

ининини 60" 96"

| | RECOMMENDED MIN. TRENCH \ | | |
|--|---------------------------|-------------------|--|
| | PIPE DIA. | MIN. TRENCH WIDTH | |
| | 6" | 23" | |
| FINAL BACKFILL | 8" | 26" | |
| | 10" | 28" | |
| | 12" | 30" | |
| | 15" | 34" | |
| - INITIAL BACKFILL | 18" | 39" | |
| - HAUNCH BEDDING SUITABLE FOUNDATION | 24" | 48" | |
| | 30" | 56" | |
| | 36" | 64" | |
| _ | | | |

-SPILLWAY WIDTH

⊸-2'±-**→**

- RIP RAP

• 1:1 MAX

TOP OF BERM

 $\psi\psi\psi\psi\psi\psi\psi$

SHEET TITLE: SITE DETAILS SHEET NUMBER:

SITE 81 EAST MAIN ST ADDRESS: NORTH CANAAN, CT APT FILING NUMBER: CT606140 DRAWN BY: JT DATE: 10/19/21 CHECKED BY: KAM

BUNCE 1 SOLAR FACILITY

WATERFORD, CT 06385 OWNER: JOHN BUNCE

CORPORATION, P.C. ADD: 567 VAUXHALL STREET **EXTENSION - SUITE 311**

ADDRESS: 81 EAST MAIN ST NORTH CANAAN, CT

DESIGN PROFESSIONAL OF RECORD PROF: KEVIN A. MCCAFFERY, P.E. **COMP: ALL-POINTS TECHNOLOGY**

UNDISTURBED GROUND

LSE INDUS LLC 40 TOWER LANE, SUITE 201 AVON, CT 06001

ALL-POINTS

TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385 PHONE: (860)-663-169

WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMIT SET

NO DATE REVISION

4

6

0 10/19/21 FOR REVIEW: KAM

1 02/16/22 FOR REVIEW: KAM

2 05/26/22 FOR REVIEW: KAM

3 08/02/22 FOR REVIEW: KAM

EXHIBIT 2 Module Specifications

ZXM7-SHLDD144 Series - ZNSHINESOLAR

Znshinesolar 10BB HALF-CELL Bifacial Light-Weight Double Glass Monocrystalline PERC PV Module

525W | 530W | 535W | 540W | 545W | 550W

Excellent cells efficiency

MBB technology decreases the distance between busbar and finger grid line which is benefit to power increase.

Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.

Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.

Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.

TIER 1

Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing.

Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.

Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.

IEC61215/IEC61730/IEC61701/IEC62716/UL61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO45001: Occupational Health and Safety Management System

Founded in 1988, ZNShine solar is a world's leading high-tech PV module manufacturer. With the state-of-the-art production lines, the company boasts module capacity of 6GW. Bloomberg has listed ZNShine as a global Tier 1 PV module maker. Today Znshine has distributed its sales to more than 60 countries around the globe.

ELECTRICAL CHARACTERISTICS | STC*

| Nominal Power Watt Pmax(W)* | 525 | 530 | 535 | 540 | 545 | 550 |
|---|--------------------------------|-------------------------|----------------------------|-------|-------|-------|
| Power Output Tolerance Pmax(%) | 0~+3 | 0~+3 | 0~+3 | 0~+3 | 0~+3 | 0~+3 |
| Maximum Power Voltage Vmp(V) | 40.90 | 41.10 | 41.30 | 41.50 | 41.70 | 41.90 |
| Maximum Power Current Imp(A) | 12.85 | 12.91 | 12.96 | 13.02 | 13.07 | 13.13 |
| Open Circuit Voltage Voc(V) | 49.20 | 49.40 | 49.60 | 49.80 | 50.00 | 50.20 |
| Short Circuit Current Isc(A) | 13.59 | 13.65 | 13.71 | 13.77 | 13.83 | 13.89 |
| Module Efficiency (%) *STC (Standard Test Condition): Irradiance 100 | 20.32 00W/m², Module | 20.52 Temperature 25 | 20.71 °C, AM 1.5 | 20.90 | 21.10 | 21.29 |

"STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AN *Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS | NMOT*

| Maximum Power Pmax(Wp) | 392.70 | 396.40 | 399.90 | 403.60 | 406.80 | 410.80 |
|-------------------------------|--------|--------|--------|--------|--------|--------|
| Maximum Power Voltage Vmpp(V) | 38.00 | 38.20 | 38.40 | 38.50 | 38.80 | 38.90 |
| Maximum Power Current Impp(A) | 10.33 | 10.38 | 10.42 | 10.47 | 10.49 | 10.56 |
| Open Circuit Voltage Voc(V) | 46.00 | 46.20 | 46.30 | 46.50 | 46.70 | 46.90 |
| Short Circuit Current Isc(A) | 10.98 | 11.02 | 11.07 | 11.12 | 11.17 | 11.22 |

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

| ELECTRICAL CHARACT | ERISTICS | WITH 25 | 5% REAR | SIDE PO | VER GAII | N |
|--------------------|----------|---------|---------|---------|----------|-------|
| Front power Pmax/W | 525 | 530 | 535 | 540 | 545 | 550 |
| Total power Pmax/W | 656 | 663 | 669 | 675 | 681 | 688 |
| Vmp/V(Total) | 41.00 | 41.20 | 41.40 | 41.60 | 41.80 | 42.00 |
| Imp/A(Total) | 16.01 | 16.08 | 16.15 | 16.23 | 16.30 | 16.37 |
| Voc/V(Total) | 49.30 | 49.50 | 49.70 | 49.90 | 50.10 | 50.30 |
| Isc/A(Total) | 16.95 | 17.02 | 17.10 | 17.17 | 17.25 | 17.32 |

MECHANICAL DATA

| Solar cells | Mono PERC |
|-------------------|--|
| Cells orientation | 144 (6×24) |
| Module dimension | 2278×1134×30 mm(With Frame) |
| Weight | 33.5 kg |
| Glass | 2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass |
| Junction box | IP 68, 3 diodes |
| Cables | 4 mm² ,350 mm |
| Connectors | MC4-compatible |
| | |

TEMPERATURE RATINGS

| NMOT | 44°C ±2°C | Maximum system voltage | 1500 V DC |
|---------------------------------|-----------|-------------------------|-------------------|
| Temperature coefficient of Pmax | -0.35%/°C | Operating temperature | -40°C~+85°C |
| Temperature coefficient of Voc | -0.29%/°C | Maximum series fuse | 30 A |
| Temperature coefficient of Isc | 0.05%/°C | Maximum load(snow/wind) | 5400 Pa / 2400 Pa |
| Refer.Bifacial Factor | 70±5% | | |

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

PACKAGING CONFIGURATION

| Piece/Box | 36 |
|--|-----|
| Piece/Container(40'HQ) | 720 |
| Piece/Container(with additional small package) | / |

*Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

WORKING CONDITIONS

DIMENSIONS(MM)

I-V CURVES OF PV MODULE(530W)

P-V CURVES OF PV MODULE(530W)

🖗 Add : 1#, Zhixi Industrial Zone, JintanJiangsu 213251, P.R. China 🛛 🕓 Tel: +86 519 6822 0233

Note: please read safety and installation instructions before using this product | Subject to change without prior notice © ZNSHINE SOLAR 2021 | Version: ZXM7-SHLDD144 2109.E

EXHIBIT 3 Spill Prevention Plan

STORMWATER POLLUTION CONTROL PLAN

PROPOSED BUNCE 1 SOLAR PROJECT

EAST MAIN STREET NORTH CANAAN, CONNECTICUT LITCHFIELD COUNTY

Prepared for:

LSE Indus LLC 40 Tower Lane - Suite 201 Avon, CT 06001

Prepared by:

All-Points Technology Corporation, P.C. 567 Vauxhall Street Extension – Suite 311 Waterford, CT 06385

> October 2021 Revised July 2022

This Stormwater Pollution Control Plan (SWPCP) is prepared to comply with the requirements for the General Permit for the Discharge and Dewatering Wastewaters from Construction Activities. Also to be considered part of the SWPCP are the proposed construction plans, special provisions, and the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control (Guidelines).

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WETLAND DELINEATION REPORT PROVIDED UPON REQUEST

Post-Construction Stormwater Management

Post-construction Guidelines

After the Project is complete the developer will perform the following maintenance and restoration measures:

• Mowing and maintenance of the turf and vegetated areas will occur as needed.

Other Controls

Spill Prevention Control Plan

Certain precautions are necessary to store petroleum materials, refuel and contain and properly clean up any inadvertent fuel or petroleum (i.e., oil, hydraulic fluid, etc.) spill to avoid possible impact to nearby habitats.

A spill containment kit consisting of a sufficient supply of absorbent pads and absorbent material will be maintained by the Contractor at the construction site throughout the duration of the project. In addition, a waste drum will be kept on site to contain any used absorbent pads/material for proper and timely disposal off site in accordance with applicable local, state and federal laws.

The following petroleum and hazardous materials storage and refueling restrictions and spill response procedures will be adhered to by the Contractor.

- 1. Petroleum and Hazardous Materials Storage and Refueling
 - a. Refueling of vehicles or machinery shall occur within the Construction Laydown Area ONLY and shall take place on an impervious pad with secondary containment designed to contain fuels. This area must be a minimum of 100 feet from wetlands or watercourses.
 - b. Any fuel or hazardous materials that must be kept on site shall be stored on an impervious surface utilizing secondary containment a minimum of 100 feet from wetlands or watercourses.
- 2. Initial Spill Response Procedures
 - a. Stop operations and shut off equipment.
 - b. Remove any sources of spark or flame.
 - c. Contain the source of the spill.
 - d. Determine the approximate volume of the spill.
 - e. Identify the location of natural flow paths to prevent the release of the spill to sensitive nearby waterways or wetlands.
 - f. Ensure that fellow workers are notified of the spill.
- 3. Spill Clean Up & Containment
 - a. Obtain spill response materials from the on-site spill response kit. Place absorbent materials directly on the release area.
 - b. Limit the spread of the spill by placing absorbent materials around the perimeter of the spill.

- c. Isolate and eliminate the spill source.
- d. Contact the appropriate local, state and/or federal agencies, as necessary. In the event of a spill, the Contractor (C-TEC) will use Clean Harbors (800) 645-8265 for cleanup.
- e. Contact a disposal company to properly dispose of contaminated materials in accordance with all local, state and federal regulations.
- 4. Reporting
 - a. Complete an incident report.
 - b. Notify Regional Water Authority Control Room at 1-800-732-9678 (staffed 24/7).
 - c. Notify CT Department of Environmental Protection at 860-424-3338 or 1-866-337-7745 (1-866-DEP-SPIL).
 - d. Contact general contractor C-TEC Solar ((860) 818-9118, Brandon Pizzoferrato).
 - e. Contact site owner LSE Indus LLC (Kevin Midei at (410) 274-2716).
 - f. Contact local police department in North Canaan for non-emergency at (860) 824-7313 ext193 or for emergency at 911.
 - g. Contact municipal official (Town manager) at (860) 824-7313.
 - h. Submit a completed incident report to the appropriate Connecticut Department of Environmental Protection, Municipal Official, Connecticut Siting Council and other applicable local, state and federal officials.

Waste Disposal

Construction site waste shall be properly managed and disposed of during the entire construction period. Additionally;

- A waste collection area will be designated. The selected area will minimize truck travel through the site and will not drain directly to the adjacent wetlands.
- Waste collection shall be scheduled regularly to prevent the containers from overfilling.
- Spills shall be cleaned up immediately.
- Defective containers that may cause leaks or spills will be identified through regular inspection. Any found to be defective will be repaired or replaced immediately.
- Any stockpiling of materials should be confined to the designated area as defined by the engineer.

Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete shall be conducted in a designated washout area. No surface discharge of washout wastewaters from the area will be allowed. All concrete wash water will be directed into a container or pit such that no overflows can occur. Washout shall be conducted in an entirely self-contained system and will be clearly designed and flagged or signed where necessary. The washout area shall be located outside of any buffers and at least 50 feet from any stream, wetland or other sensitive water or natural resources as shown on the plans.

The designated area shall be designed and maintained such that no overflows can occur during rainfall or after snowmelt. Containers or pits shall be inspected at least once a week to ensure structural integrity, adequate holding capacity and will be repaired prior to future use if leaks are present. The contractor shall remove hardened concrete waste when it accumulates to a height