

GENERAL NOTES

☐ TACK COAT

LEXISTING GRANULAR BASE COURSE

- TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY SURVEY FIRST LLC, DATED 08-01-2024. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
- SEE TOPOGRAPHIC SURVEY SHEETS 1-4 FOR BENCHMARK AND CONTROL POINT INFORMATION.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER. IN AREAS WHERE UTILITIES CROSS CONTRACTOR SHALL EXPOSE EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND REPORT ANY ELEVATION CONFLICTS WITH PROPOSED UTILITIES TO THE ENGINEER.
- CONTRACTOR TO COORDINATE LOCATION AND TIMETABLE OF INSTALLATION OF CONSTRUCTION FENCE WITH THE OWNER.
- MAINTENANCE OF TRAFFIC MEASURES ARE THE SOLE RESPONSIBLITY OF THE CONTRACTOR. CONTRACTOR TO COORDINATE WITH OWNER ON ANY

ROAD / DRIVE CLOSURES ALONG WITH SEQUENCING.

6. ANY CREATION OF SOIL STOCKPILES SHALL BE APPROVED BY THE ENGINEER AND OWNER PRIOR TO THE START OF CONSTRUCTION.

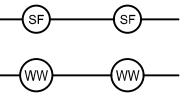
O EROSION CONTROL KEYNOTES

- 1. SILT FENCE DETAIL, PER DETAIL B/G4.4
- 2. INLET SEDIMENT PROTECTION, PER DETAIL G/G4.4
- 3. CONSTRUCTION ENTRANCE DRIVE, PER DETAIL C/G4.4.
- 4. ROCK CHECK DAM, PER DETAIL K/G4.4
- 5. CONCRETE WASHOUT AND SIGN, PER DETAIL E/G4.4
- 6. WEIGHTED WATTLE, PER DETAIL Q/G4.4
- 7. PROJECT INFORMATION BOARD, PER DETAIL M/G4.4 PLACE AT ENTRANCE TO PROJECT SITE. COORDINATED LOCATION WITH OWNER PRIOR TO START OF CONSTRUCTION.
- 8. CONSTRUCTION LIMITS
- 9. DURING CONSTRUCTION KEEP PAVEMENT AND WORK AREAS IN AN ORDERLY CONDITION. CLEAN WHEELS OF VEHICLES BEFORE LEAVING SITE TO AVOID TRACKING SOIL ONTO ROADS OR OTHER PAVED AREAS. CONTRACTOR SHALL PERFORM CLEANING AND SWEEPING OF ENTRANCE, RUMBLE STRIPS OR TIRE WASHING AS REQUIRED TO PREVENT TRACK OUT OF SOILS FROM SITE ON A WEEKLY AND AS NEEDED BASIS DURING CONSTRUCTION ACTIVITIES INVOLVING EARTHWORK.
- 10. TREE PROTECTION, PER DETAIL N/G4.4
- 11. CONTRACTOR SHALL INVESTIGATE OUTLET LOCATION AS IT IS NOT SHOWN ON THE SURVEY. REPORT BACK TO ENGINEER IF AN OUTLET IS DETERMINED. OTHERWISE, REMOVE EXISTING STORM SEWER INLETS AND PIPES TO INSTALL PROPOSED DETENTION OUTLET.
- <u> ALTERNATE: 1.5" MILL AND RESURFACE EXISTING PAVEMENT UPON</u> PROJECT COMPLETION AS SHOWN OR TO LIMITS OF DAMAGED SURFACE.
 REFER TO DETAIL C ON THIS SHEET FOR PAVEMENT OVERLAY WITH CRACK AND JOINT REPAIR.

EROSION CONTROL LEGEND



SEDIMENT BAG INLET PROTECTION



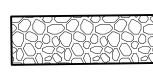
WEIGHTED WATTLE

SILT FENCE

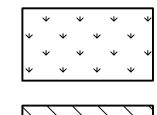
APPROXIMATE LIMITS OF CONSTRUCTION

INDICATES LOCATION OF CONCRETE WASHOUT

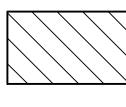
INDICATES LOCATION OF PORTABLE TOILETS



CONSTRUCTION ENTRANCE



APPROXIMATE LIMITS OF TEMPORARY SEEDING



EROSION CONTROL BLANKET



TREE PROTECTION



Call 811 or 800-382-5544 Before you Dig! Call 811 or 1-800-382-5544 Before You Begin Any Digging Project. Call 48 hours or 2 working days before you dig. It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION!!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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MSD PIKE TOWNSHIP PIKE HIGH SCHOOL BASEBALL/SOFTBALL RENOVATIONS

5401 W. 71ST STREET INDIANAPOLIS, IN. 46268

ARCHITECT

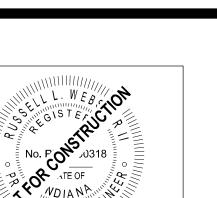
CONSULTANT

FANNING HOWEY

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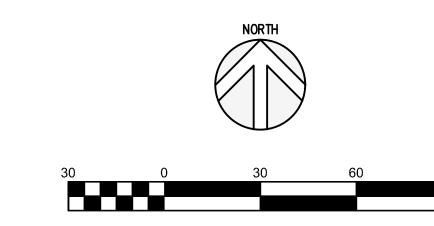
PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301 PROJECT ISSUE DATE: 10/03/2024

REV. NO.△	DESCRIPTION	DATE
	PLANS ISSUED FOR BID	10/03/202
2	ADDENDUM 2	10/24/202
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EROSION CONTROL PLAN PRE-CONSTRUCTION



MATCH LINE - SEE SHEET G4.2



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- 10. TREE PROTECTION, PER DETAIL N/G4.4
- 11. ROCK CHECK DAM, PER DETAIL K/G4.4
- 12. RIPRAP AT END SECTION, PER DETAIL P/G4.4
- 13. EROSION CONTROL BLANKET, PER DETAIL H AND J/G4.4
- 14. AREA TO BE SEEDED SEE LANDSCAPE PLANS AND SHEET G4.4

EROSION CONTROL LEGEND

SEDIMENT BAG INLET PROTECTION

SILT FENCE

WEIGHTED WATTLE

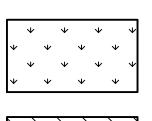
APPROXIMATE LIMITS OF CONSTRUCTION

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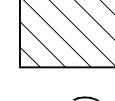
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CAUTION!!

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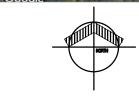
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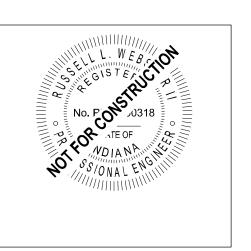
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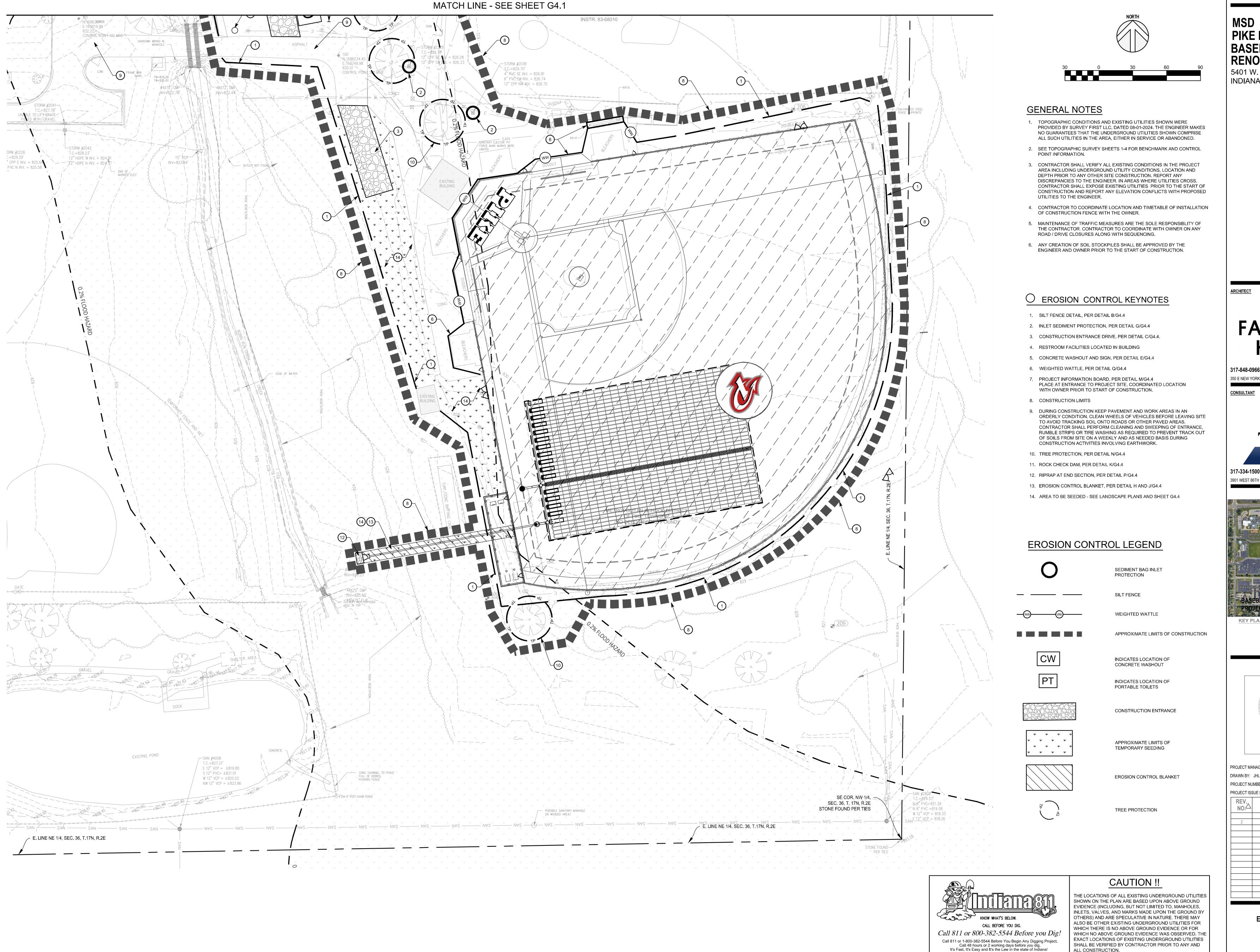




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EROSION CONTROL PLAN



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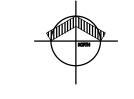
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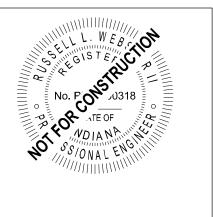
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EROSION CONTROL

ALL CONSTRUCTION.

A VICINITY MAP DEPICTING THE PROJECT SITE LOCATION IN RELATIONSHIP TO

THE PROJECT INVOLVES THE RESURFACING OF THE EXISTING SOFTBALL AND BASEBALL FIELDS TO SYNTHETIC TURF, PROVIDING UNDERGROUND DETENTION AND WATER QUALITY MEASURES TO COMPLY WITH LOCAL AND STATE REGULATIONS.

A4 LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS LATITUDE N 39°52' 34" (39.87611), LONGITUDE W 86°15' 07" (-86.25194) LEGAL DESCRIPTION OF THE PROJECT SITE:

11 X 17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD _AYOUT/NAMES

BOUNDARIES OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS

THE PROJECT AREA LIES WITHIN ZONE X, A 500-YEAR FLOOD FRINGE, FEMA PANEL 18097C0020F

EFFECTIVE APRIL 19, 2016, PER THE FLOOD INSURANCE RATE MAP A8 LAND USE OF ALL ADJACENT PROPERTIES

'HE SITE IS BORDERED ON THE WEST, SOUTH AND EAST BY RESIDENTIAL USES. NORTH OF 71ST STREET THE SITE IS BORDERED BY COMMERCIAL AND INDUSTRIAL

IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL

NO TMDL EXIST PRESENTLY FOR EAGLE CREEK

SEE SURVEY SHEET FOR LEGAL DESCRIPTION

REFER TO SITE PLAN AND TOPOGRAPHIC SURVEY.

ROBIN RUN - EAGLE CREEK

A10 NAME(S) OF THE RECEIVING WATER(S)

A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPAIRED EAGLE CREEK IS NOT LISTED AS AN IMPAIRED WATERWAY

A12 SOILS MAP OF THE PREDOMINATE SOIL TYPES

THE SOILS MAP AND SOIL DESCRIPTIONS CAN BE FOUND ON THIS SHEET. PROPOSED EROSION CONTROL MEASURES WILL BE MONITORED IN THESE AREAS DURING CONSTRUCTION. ANY ADDITIONAL CONTROL MEASURES NEEDED WILL BE INSTALLED.

A13 IDENTIFICATION AND LOCATION OF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN, EXISTING SITE LAYOUT)

THE DITCH RUNNING THROUGH THE SITE IS LABELED AS ROBIN RUN, A RIVERINE WETLAND, HOWEVER, NO DISTURBANCE IS PROPOSED.

A14 IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES SENERAL PERMIT RULE FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (CSGP) WILL BE APPLIED FOR FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

A15 IDENTIFICATION AND DELINEATION OF EXISTING COVER, INCLUDING NATURAL

THE SITE IS LARGELY COVERED BY GRASS PLAYING FIELDS WITH SMALL SECTIONS OF PAVEMENT AND SMALL BUILDINGS A16 EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE

REFER TO CONSTRUCTION PLANS FOR EXISTING AND PROPOSED CONTOURS. SITE FLOWS GENERALLY TO THE WEST.

A17 LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE

NO OFFSITE RUNOFF FLOWS THROUGH THIS PORTION OF THE SITE

A18 LOCATION(S) WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE THE SITE FLOWS GENERALL TO THE WEST INTO THE EXISTING DITCH

A19 LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE

HERE ARE MANY EXISTING BUILDINGS ONSITE AS IT IS AN EXISTING HIGH SCHOOL CAMPUS. REFER TO THE CONSTRUCTION PLANS FOR EXACT BUILDING LOCATIONS. A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT THERE IS AN EXISTING WET POND WEST OF THE EXISTING DITCH ONSITE

A21 LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES THERE ARE NO INFILTRATION WELLS, SINKHOLES OR DRYWELLS CURRENTLY LOCATED OR PROPOSED ON THE SITE. PRECIPITATION MAY POTENTIALLY REACH GROUND

WATER VIA INFILTRATION AS IT TRAVELS THROUGH THE SOIL COLUMN SIZE OF THE PROJECT AREA EXPRESSED IN ACRES

THE TOTAL PROJECT AREA IS TO BE 6.80± ACRES. THE PROJECT AREA IS DEPICTED ON THE EROSION CONTROL PLANS

A23 TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES

THE TOTAL OF DISTURBED AREA IS TO BE 6.80± ACRES. THE DISTURBED AREA IS DEPICTED ON THE EROSION CONTROL PLANS

A24 PROPOSED FINAL TOPOGRAPHY

THE GENERAL FINAL TOPOGRAPHY IS DEPICTED ON THE GRADING PLANS. INLETS CAN BE SEEN ON THE SITE UTILITY AND EROSION CONTROL PLANS

A25 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

DISTURBED AREAS ARE NOTED ON THE EROSION CONTROL PLANS A26 LOCATIONS, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEM SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNELS

REFER TO SHEETS SU5.0-SU5.3 FOR STORM SEWER PLANS.

A27 LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE STORMWATER LEAVES THE SITE TO THE WEST INTO THE EXISTING DITCH. THERE ARE

NO INTENTIONAL GROUNDWATER DISCHARGES PLANNED A28 LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS

SOIL STOCKPILES CAN BE LOCATED ON THE EROSION CONTROL PLANS DEMOLITION MATERIALS WILL REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED SITE. A29 LOCATION OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS

DEMOLITION MATERIALS WILL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE SITE(S) LISTED BELOW. IF UNKNOWN PRIOR TO THE START OF CONSTRUCTION, LOCATIONS MUST BE DISCLOSED AT THE PRE-CONSTRUCTION MEETING AND PRIOR TOTHE START OF WORK. A REQUEST FOR ACCEPTANCE OF BORROW OR DISPOSAL SHALL BE SUBMITTED TO THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO PLANNED

START OF DISPOSAL OPERATIONS. A30 CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE

STAGING AREA FOR CONSTRUCTION STAGING IS PLANNED FOR THE WEST SIDE OF HE PROJECT AREA. THE CONCRETE WASHOUT AREA WILL BE LOCATED AT THE SOUTHWEST SIDE OF THE PROJECT AREA NEAR THE CONSTRUCTION ENTRANCE.

A31 LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS AND PUMP AROUNDS NO STREAM CROSSINGS OR PUMP AROUNDS WILL BE NECESSARY.

STORMWATER POLLUTION PREVENTION -DURING CONSTRUCTION - SECTION B

STONE SHALL BE REMOVED.

POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION THERE IS A POTENTIAL FOR POLLUTANTS ASSOCIATED WITH CONSTRUCTION MACHINERY INCLUDING DIESEL FUEL, HYDRAULIC FLUID, ENGINE OILS AND LUBRICANTS, ANTIFREEZE AND OTHER PETROLEUM PRODUCTS. SOIL AND SEDIMENT DISTURBED DURING EARTHWORK ACTIVITIES COULD BE BECOME POLLUTANTS IF THE TRANSPORT OF THESE MATERIALS BY WIND AND/OR WATER IS NOT MEDIATED BY EROSION CONTROL MEASURES. DURING ACTIVE CONSTRUCTION DAYS (TYPICALLY WEEKDAYS) CONSTRUCTION VEHICLES WILL BE INSPECTED DAILY. CONTRACTOR SHALL HAVE SPILL CONTAINMENT TRAYS ALONG WITH A UNIVERSAL SPILL KIT ONSITE. ANY SPILL SHALL BE ADDRESSED IMMEDIATELY. CONTAMINATED SOIL /

STABLE CONSTRUCTION ENTRANCE LOCATIONS & SPECIFICATIONS THE CONSTRUCTION ENTRANCE SHALL BE LOCATED AT THE SOUTHWEST CORNER OF THE PROJECT SITE. ENTRANCE TO THE PROJECT WILL COME FROM EAST HANNA AVE. THE PLANNED LOCATION CAN BE FOUND ON THE EROSION CONTROL PLANS.

SPECIFICATIONS FOR TEMPORARY & PERMANENT STABILIZATION TEMPORARY SURFACE STABILIZATION IS REQUIRED WHEN DISTURBED AREAS ARE EXPECTED TO REMAIN INACTIVE. STABILIZATION MUST BE INITIATED BY THE END OF THE 7TH DAY AND COMPLETED WITHIN 14 DAYS AFTER INITIATION. STABILIZATION INCLUDES SEEDING / PLANTING THE EXPOSED AREAS AND APPLYING MULCH, STONE OR OTHER TEMPORARY STABILIZATION METHOD. AREAS THAT ARE PLANNED FOR TEMPORARY SEEDING, SEE THE SEEDING TABLE PROVIDED ON THE EROSION CONTROL DETAIL SHEET. AREAS THAT HAVE BEEN COMPACTED MAY BE EXCLUDED WHEN THESE AREAS ARE INTENDED TO BE IMPERVIOUS SURFACE IN THE FINAL CONDITION, PROVIDED RUN-OFF IS DIRECTED TO APPROPRIATE SEDIMENT CONTROL MEASURES.

SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW THERE ARE NO SITE SPECIFIC CONCENTRATED FLOW AREAS ASSOCIATED WITH THIS PROJECT, SHOULD CONCENTRATED FLOW DEVELOP AROUND INLETS. WEIGHTED WATTLES ARE TO BE INSTALLED UPSTREAM OF THE RECEIVING INLET. DETAILS CAN BE FOUND ON THE **EROSION CONTROL DETAIL SHEET**

SEDIMENT CONTROL MEASURES FOR SHEET FLOW SILT FENCE: SEDIMENT CONTROL MEASURES ARE SHOWN ON THE EROSION CONTROL PLANS DETAILS CAN BE FOUND ON THE EROSION CONTROL PLAN.INSTALL SILT FENCE TO TRAP SEDIMENT. SILT FENCE CAPTURES SEDIMENT BY PONDING WATER AND DEPOSTION. SILT FENCE SHALL NOT BE USED FOR DIVERSION, ACROSS STREAMS, CHANNELS, DITCHES SWALES OR ANY CONCENTRATED FLOW.

FILTER SOCKS: A TEMPORARY BARRIER CONSISTING OF PERMEABLE MATERIAL (COMPOST OR MULCH CONTAINED IN A PERMEABLE GEOTEXTILE INSTALLED TO INTERCEPT AND TREAT SEDIMENT LADEN RUNOFF. THEY WILL TRAP SEDIMENT BY INTERCEPTING RUNOFF AND REDUCING VELOCITY. DETAILS CAN BE FOUND ON THE EROSION CONTROL DETAIL SHEET AFTER CONSTRUCTION, PERMANENT SEEDING WILL BE INSTALLED.

RUNOFF CONTROL MEASURES INLET PROTECTION: INLETS CARRY MODERATE TO LARGE FLOWS OF STORMWATER WHICH CAN TRANSPORT SEDIMENT TO STREAMS, RIVERS, LAKES AND WETLANDS. RUNOFF CONTROL MEASURES FOR THIS PROJECT INCLUDE SILT FENCE WHICH IS SHOWN ON THE EROSION CONTROL PLANS. DETAILS CAN BE FOUND ON THE EROSION CONTROL PLAN. CONCRETE WASHOUT: CONCRETE WASHOUT AREAS SHALL BE INSTALLED AND UTILIZED AS CONTAINMENT FOR WASHING EQUIPMENT OF UNCURED CONCRETE AND ASSOCIATED LIQUIDS. ALL CONCRETE WASHOUT WATER SHALL BE DISCHARGED TO A CONCRETE WASHOUT AREA. CONCRETE WASHOUT AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM ANY BODY OF WATER AND LOCATED AWAY FROM STORMWATER INLETS AND CONVEYANCE SYSTEMS.

STORMWATER OUTLET PROTECTION LOCATION & SPECIFICATIONS STORM WATER DISCHARGES DIRECTLY TO NEW AND EXISTING STORM SEWER STRUCTURES. STORM STRUCTURE PROTECTION MEASURES ARE SHOWN ON THE EROSION CONTROL PLANS. DETAILS CAN BE FOUND ON THE EROSION CONTROL DETAIL SHEET.

GRADE STABILIZATION STRUCTURE LOCATIONS & SPECIFICATIONS NO GRADE STABILIZATION STRUCTURES ARE REQUIRED FOR THIS PROJECT,

DEWATERING APPLICATIONS & MANAGEMENT METHODS SHOULD DEWATERING BE NECESSARY, WATER SHALL BE DIRECTED TO A SEDIMENT BASIN OR SEDIMENT TRAP PRIOR TO DISCHARGE. DEWATERING BAGS MAY ALSO BE INTRODUCED TO CONTROL SEDIMENT. CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO THE ENGINEER PRIOR TO THE START OF DEWATERING PROCESS.

MEASURES UTILIZED FOR WORK WITHIN WATERBODIES NO IN-STREAM WORK WILL BE REQUIRED ON THIS PROJECT.

FILTER SOCK: SEE B-5 FOR ADDITIONAL

MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER **QUALITY MEASURE**

STORMWATER INLET CONTROL MEASURES CONSISTING OF TEMPORARY SEDIMENT BAGS ARE SHOWN ON THE EROSION CONTROL PLANS. DETAILS CAN BE FOUND ON THE EROSION CONTROL DETAIL SHEET. ANY DISCHARGE OF WATER FROM DEWATERING OR GROUND WATER FROM EXCAVATIONS, TRENCHES, FOUNDATIONS, ETC. MUST BE DIRECTED TO AN APPROPRIATE SEDIMENT CONTROL MEASURE OR SERIES OF EROSION CONTROL MEASURES THAT MINIMIZE THE DISCHARGE OF SEDIMENT. CONTRACTOR SHALL MONITOR ALL EROSION CONTROL MEASURES AND PERFORM MAINTENANCE AS OUTLINED IN THE MANUFACTURERS SPECIFICATIONS OR AS REQUIRED TO ENSURE PROPER WORKING ORDER OF EACH DEVICE. MONITORING AND MAINTENANCE GUIDELINES FOR EACH EROSION CONTROL BEST MANAGEMENT PRACTICE IS INCLUDED WITH THE DETAIL FOR THAT PRACTICE. EROSION CONTROL PRACTICE DETAILS ARE FOUND ON THE EROSION CONTROL PLAN. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING DAILY/WEEKLY INSPECTIONS FOR THE PURPOSE OF EVALUATING THE EFFECTIVENESS AND CONDITIONS OF THE INSTALLED PRACTICES. INSPECTIONS AND ASSOCIATED REPORTS SHALL BE COMPLETED IN ALIGNMENT WITH IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) REQUIREMENTS. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED, NO LATER THAN 48 HOURS OF DISCOVERY. THE CONTRACTOR SHALL KEEP A COPY OF THE INSPECTION REPORTS ON-SITE. INSPECTION REPORTS MAY BE REQUESTED BY THE LOCAL GOVERNING AUTHORITY AND IDEM REPRESENTATIVES.

CONSTRUCTION VEHICLES ARE NOT PERMITTED TO TRACK SOIL OUTSIDE OF THE CONSTRUCTION PROJECT LIMITS. UNDER NO CIRCUMSTANCES SHOULD SEDIMENT BE TRACKED ONTO A PUBLIC STREET FROM ANY CONSTRUCTION VEHICLE. ROUTINE REGULATORY INSPECTIONS ARE REQUIRED TO CONTINUE FOR THE PROJECT SITE UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED VIA THE IDEM ONLINE

ONCE 70% SOIL STABILIZATION HAS BEEN ACHIEVED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT THE NOTICE OF TERMINATION (NOT) TO IDEM VIA REGULATORY EPORTAL AND TO THE HAMILTON COUNTY SOIL AND WATER CONSERVATION DISTRICT.

INSPECT THE PERIMETER PROTECTION REGULARLY AND AFTER EACH STORM EVENT. IF SILT FENCE OR WATTLES TEAR OR DETERIORATE, OR BECOME INEFFECTIVE. REMOVE

AND REPLACE THE AFFECTED PORTION IMMEDIATELY. SEDIMENT DEPOSITED ALONG SILT FENCE SHALL BE REMOVED ONCE IT REACHES HALF THE HEIGHT OF THE SILT FENCE OR WATTLE. CHECK SILT FENCE SUPPORT STAKES FOR STABILITY AND ENSURE THEY ARE FIRMLY

ANCHORED IN THE GROUND AND HAVEN'T SHIFTED. . SILT REMOVAL SHOULD BE PREFORMED IN A MANNER TO PREVENT UNDERMINING THE FENCE OR WATTLE. REMOVE SILT FENCE ONCE PROJECT IS COMPLETED, AND THE SITE HAS BEEN STABILIZED

TEMPORARY CONSTRUCTION ENTRANCE ENTRANCE TO BE INSPECTED WEEKLY.AFTER STORM EVENTS AND AFTER HEAVY USE FOR SEDIMENT ACCUMULATION.

RESHAPE AS NEED FOR DRAINAGE AND RUNOFF CONTROL. TOP DRESS WITH CLEAN STONE AS NEEDED

WITH VEGETATION OR OTHER EROSION CONTROL MEASURES.

IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO STREETS BY SWEEPING

FOR STREET / PAVEMENT ENTRANCES, INSPECT AND CLEAN DAILY AT THE END OF THE WORK DAY. 6. BROKEN STREET PAVEMENT TO BE REPAIRED IMMEDIATELY

INLET PROTECTION MAINTENANCE REQUIREMENTS . REMOVE SEDIMENT AND SOIL FROM THE STREET, WITHOUT FLUSHING, TO REDUCE THE

SEDIMENT LOAD ON THE INLET PROTECTION. INSPECT INLET PROTECTION BAGS FOR TEARS IN THE FABRIC OR DAMAGE PERODICALLY. PROPRIETY INLET PROTECTION DEVICES SHOULD BE INSPECTED AND MAINTAINED WITH

MANUFACTURER SPECIFICATIONS. INSPECT INLET PROTECTION MEASURES IMMEDIATELY BEFORE AND AFTER RAINFALL EVENTS AS WELL AS SNOWMELT.

CONCRETE WASHOUT MAINTENANCE INSPECT WASHOUTS DAILY AND AFTER EACH STORM EVENT FOR LEAK OR DAMAGE. DAMAGES TO WASHOUT / CONTAINER SHOULD BE REPAIRED IMMEDIATELY CONCRETE WASHOUT CONTAINERS SHALL BE COVERED PRIOR TO HEAVY RAIN EVENTS. VOLUME SHOULD BE REDUCED TO PREVENT OVERFLOW DURING THE RAIN EVENT.

BE VACUUMED OR ALLOWED TO EVAPORATE. HARDENED CEMENTITIOUS MATERIAL SHALL BE REMOVED ALL WASHWATER, CONCRETE, DEBRIS, ETC. SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.

WHEN WASHOUT CONTAINER REACHES 75% OF ITS CAPACITY. THE WASHWATER SHALL

MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER **QUALITY MEASURE**

TEMPORARY SEDIMENT TRAP / ROCK CHECK DAMS MAINTENANCE INSPECT TEMPORARY SEDIMENT TRAPS AND ROCK CHECK DAMS AFTER EACH STORM EVENT AND IMMEDIATELY REPAIR ANY EROSION AND PIPING HOLES.

STORMWATER POLLUTION PREVENTION -**DURING CONSTRUCTION - SECTION B**

REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO WITHIN 6" OF CASTING (IF APPLICABLE) OR 1/2 THE ORIGINAL HEIGHT. E. EROSION CAUSED BY HIGH FLOWS AROUND THE EDGES OF THE DAM SHOULD BE

CORRECTED IMMEDIATELY RESTORE WASHED OUT OR DISLODGED CHECK DAM S TO THEIR ORIGINAL CONDITION. REMOVE STRUCTURES AND SEDIMENT ONCE CONSTRUCTION HAS BEEN COMPLETED OR THE AREAS HAVE BEEN STABILIZED.

EROSION CONTROL BLANKET MAINTENANCE REQUIREMENTS

DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER EACH STORM EVENT FOR ANY EROSION BELOW THE BLANKET. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT RE-SEED THE AREA AND RELAY AND STAPLE THE BLANKET. DETERMINE THE SOURCE OF WATER CAUSING THE EROSION AND ADD CONTROLS TO PREVENT ITS REOCCURRENCE. REPLACE OR RE-ANCHOR LOOSENED BLANKETS

REMOVE SEDIMENT DEPOSITED ON BLANKETS 5. ONCE VEGETATION IS ESTABLISHED, INSPECT THE AREA PERIODICALLY.

B12 PLANNED CONSTRUCTION SEQUENCE FOR IMPLEMENTATION OF STORMWATER QUALITY MEASURES RELATED TO LAND DISTURBANCE

> INSTALL PROJECT INFORMATION BOARD AT THE ENTRANCE OF THE SITE (WEST END) INFORMATION BOARD TO CONTAIN CONTACT INFORMATION OF PERSON RESPONSIBLE FOR CONSTRUCTION ACTIVITES, COPY OF NOTICE OF INTENT, LOCAL DRAINAGE APPROVAL PERMIT, LOCATION OF ANY SWPPP DOCUMENTATION AND ANY ADDITIONAL PERMITS. SEE EROSION CONTROL DETAIL SHEET FOR BOARD CONSTRUCTION.

DESIGNATE QUALIFIED INDIVIDUAL FOR SITE INSPECTIONS AFTER 1/2" RAINFALL EVENTS

PRIOR TO MOBILIZING HEAVY EQUIPMENT, THE TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AND ESTABLISHMENT OF LAYDOWN AREAS SHALL BE INSTALLED.

PRIOR TO STARTING EARTHWORK OPERATIONS OR ANY OTHER SOIL DISTURBING

6. INSTALL INLET PROTECTION AS INDICATED ON THE EROSION CONTROL PLAN. INSTALL SITE STORM SEWER INFRASTRUCTURE AND INLET CONTROL MEASURES ON

ANY TEMPORARY SEEDING, EROSION CONTROL BLANKET AND/OR RIPRAP SHALL BE INSTALLED AS EARTHWORK IS IMPLEMENTED. FINAL STABILIZATION SHALL INCLUDE REMOVAL OF ALL TEMPORARY CONTROL MEASURES, INSTALLATION OF TOPSOIL AND SEEDING IN AREAS TO RECEIVE PERMANENT SEEDING HAS BEEN ACHIEVED WITH 70% COVERAGE REALIZED, FINAL GRADES AND COMPACTION ARE COMPLETE, STORM STRUCTURES AND ROAD SURFACES HAVING BEEN CLEANED.

REMOVE ALL TEMPORARY SEDIMENT CONTROL PRACTICES ONCE THE SITE IS STABILIZED

B13 PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL RESIDENTIAL BUILDING LOTS THERE ARE NO INDIVIDUAL BUILDING LOTS CREATED AS PART OF THIS PROJECT.

B14 MATERIAL HANDLING, SPILL PREVENTION & SPILL RESPONSE SPILL PREVENTION SHALL BE ACCOMPLISHED BY UTILIZING SPILLGUARDS FOR EQUIPMENT FUELING. EQUIPMENT IN NEED OF REPAIR SHALL BE REMOVED FROM SITE FOR THE NECESSARY MAINTENANCE. EQUIPMENT SPILLGUARDS SHALL BE 3'X3'X6" AND SHALL BE CONSTRUCTED OF A MATERIAL RESISTANT TO PETROLEUM PRODUCTS

MATERIAL HANDLING, SPILL PREVENTION & SPILL RESPONSE B14 SPILL PREVENTION FOR VEHICLE AND EQUIPMENT FUELING: FUELING SHALL BE DONE OFFSITE OR IN DESIGNATED FUELING AREAS. THESE AREAS SHALL BE LOCATED A MINIMUM OF 50 FT. FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERWAYS. EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED ON PROPER FUELING PROCEDURES. FUELING SHALL BE PERFORMED ON LEVEL SURFACES. FEDERAL, STATE AND LOCAL REQUIREMENTS SHALL BE OBSERVED FOR ANY STATIONARY ABOVE GROUND TANKS. VEHICLES AND EQUIPMENT SHALL BE INSPECTED EACH DAY PRIOR TO USE FOR LEAKS. LEAKS SHALL BE REPAIRED IMMEDIATELY, DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS OR STREAMS. WASHOUT TO BE DONE ONLY AT WASHOUT LOCATION. THESE LOCATIONS SHALL BE LOCATED 50' FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. PROPERLY DISPOSE OF ALL OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. PROPERLY DISPOSE OF OR RECYCLE USED BATTERIES. SPILLS MUST BE COLLECT AND OR CLEANED BY A TRAINED INDIVIDUAL AND DISPOSED OF PER FEDERAL, STATE AND LOCAL REGULATIONS. SPILLS MUST BE REPORTED TO IDEM SPILL RESPONSE TEAM AND THE COUNTY SOIL AND WATER CONSERVATION DISTRICT OFFICE

B15 MATERIAL HANDLING & STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY

FUEL AND/OR OIL STORAGE IN VOLUMES GREATER THAN 50 GALLONS IS PROHIBITED, WITHOUT PRIOR APPROVAL BY ENGINEER.

GENERAL EROSION CONTROL REQUIREMENT NOTES

INFORMED OF THE TERMS AND CONDITIONS OF A REQUIREMENTS WITHIN THE STORMWATER POLLUTION PREVENTION PLAN (SWP3) AND THE REQUIREMENTS OF THE EROSION CONTROL PLAN. THE PERMITTEE IS REQUIRED TO DOCUMENT THIS PROCESS. PERSONNEL INCLUDE BUT ARE NOT LIMITED TO: GENERAL CONTRACTORS, CONSTRUCTION CONCRETE SUPPLIERS, SWP3 RESPONSIBLE PERSONS AND THOSE RESPONSIBLE FOR ADMINISTERING THE SELF-MONITORING PROGRAM (SMP).

AS DEEMED NECESSARY MAY BE REQUIRED BY IDEM OR THE CITY INSPECTOR.

CONSTRUCTION SOLID WASTE MANAGEMENT

PROVIDE CONTINUOUS SITE MONITORING AND CLEANUP. COLLECT TRASH ON A DAILY BASIS. PROVIDE AS MANY WASTE BINS AS NEEDED TO KEEP SITE CLEAN OF LITTER AND WASTE. DURING EXTENDED PERIODS OF RAINFALL, WASTE BINS MUST BE COVERED.

LOOSE MATERIALS RESULTING FROM THE CONSTRUCTION AND DEMOLITION SHALL BE PROMPTLY REMOVE FROM THE SITE BY THE CONTRACTOR. WHEN NECESSARY TO STORE CONSTRUCTION AND DEMOLITION DEBRIS ONSITE THE MATERIALS SHALL BE CONCEALED IN COVERED DUMPSTERS OR STOCKPILED AND COVERED LOCATE STOCK PILES SUFFICIENTLY FAR AWAY FROM DRAINAGE INLETS (50 FT MINIMUM SEPARATION).

SEGREGATE AND RECYCLE WASTE MATERIALS WHEN APPROPRIATE.

4. ARRANGE FOR REGULAR WASTE COLLECTION BY LICENSED TRASH HAULER. PROVIDE SECONDARY CONTAINMENT FOR HAZARDOUS MATERIAL CONTAINERS.

6. COMPLY WITH ALL STATE AND LOCAL SOLID WASTE DISPOSAL AND NUISANCE REQUIREMENTS.

7. TRAIN EMPLOYEES AND SUBCONTRACTORS TO USE PROPER SOLID WASTE MANAGEMENT PRACTICES.

SANITARY WASTE MANAGEMENT

DO NOT PLACE TEMPORARY FACILITIES (PORT-O-LETS) ON PAVED AREAS. LOCATE TEMPORARY FACILITIES AT LEAST 50 FEET FROM STORM DRAINAGE INLETS.

SANITARY/SEPTIC FACILITIES SHOULD BE MAINTAINED IN GOOD WORKING ORDER BY A LICENSED SERVICE

STORMWATER POLLUTION PREVENTION -POST CONSTRUCTION SECTION C

DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE THE FUTURE USE OF THE IMPROVED AREAS INVOLVES THE DRIVING AND PARKING OF PRIVATE VEHICLES ON ASPHALT / STONE PAVED SURFACES. CONTAMINANTS TYPICALLY

FOUND IN PARKING AREAS AND ON ROADS INCLUDE THE FOLLOWING; 1. OIL & GREASE . ANTIFREEZE

MEASURES

BRAKE FLUID & BRAKE DUST . RUBBER FRAGMENTS

GASOLINE, DIESEL FUEL AND OTHER HYDROCARBONS METALS FROM VEHICLES

GRIT AND SEDIMENT FROM WEARING OF THE ROAD SURFACE . MATERIAL FALLING OR WASHING OFF OF VEHICLES

9. TRASH AND OTHER BIOLOGICAL AGENTS CONTAINED IN THE TRASH DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER

DETENTION SYSTEM THE PROPOSED UNDERGROUND DETENTION SYSTEM WILL REDUCE THE SITE RUNOFF RATE. THE STONE BASE OF THE DETENTION SYSTEM HAS BEEN DESIGNED TO TREAT THE WATER QUALITY VOLUME FOR THE SITE. AN ISOLATOR ROW WILL BE USED AS WELL AS A PRETREATMENT FOR THE STONE SECTION.

<u>GOOD HOUSE KEEPING MEASURES</u> SOOD HOUSEKEEPING MEASURES SUCH AS REGULAR STREET VACUUMING INSTALLATION OF TRASH RECEPTACLES, AND REDUCTION IN FERTILZER OVERSPRAY CAN BE INCORPORATED BY THE OWNER AND/OR OCCUPANT. VACUUM CLEAN ALL PAVED AREAS PRIOR TO REMOVING INLET PROTECTION

PLAN DETAIL FOR EACH STORMWATER MEASURES DETAILS FOR STORMWATER MEASURES ARE SHOWN ON THE EROSION CONTROL DETAIL SHEET. DETAILS FOR THE BMPS CAN BE FOUND ON THE SITE UTILITY DETAIL SHEETS 6.0-G6.2. POST-CONSTRUCTION STORM WATER QUALITY MEASURES INCLUDE A RESPONSIBLE SITE MAINTENANCE PROGRAM FOR STREET CLEANING AND TRASH REMOVAL.

SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION

> THE UNDERGROUND DETENTION SYSTEM AND BMPS WILL BE INSTALLED WITH THE STORM SEWER SYSTEM FOLLOWING DEMOLITION ACTIVITIES. THIS UNIT WILL PROVIDE STORMWATER QUALITY FOR THE NEW IMPERVIOUS AREAS POST CONSTRUCTION. OBSERVATION OF THIS UNIT WILL BE CONDUCTED THROUGHOUT CONSTRUCTION AND A FINAL INSPECTION WILL BE CONDUCTED AT THE END OF CONSTRUCTION TO ADDRESS ANY SEDIMENT REMOVAL REQUIREMENTS.

CLEAN ALL PAVED AREAS, VIA SWEEPER ATTACHMENT OR COMMERCIAL STREET SWEEPER, PRIOR TO REMOVING INLET PROTECTION.

MAINTENANCE GUIDELINES FOR PROPOSED OF POST-CONSTRUCTION STORMWATER MEASURES MAINTENANCE REQUIREMENTS FOR THE STORMWATER QUALITY MEASURES WHICH WILL REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE, ARE DESCRIBED BELOW. REFER TO THE BMP OPERATIONS AND MAINTENANCE MANUAL FOR MORE DETAILED MAINTENANCE REQUIREMENTS.

PROPOSED UNDERGROUND DETENTION SYSTEMS

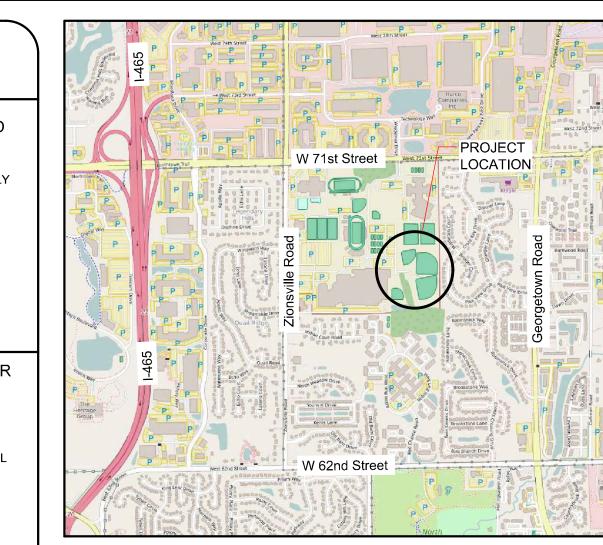
THE FREQUENCY OF INSPECTION AND MAINTENANCE VARIES BY LOCATION. A ROUTINE INSPECTION SCHEDULE NEEDS TO BE ESTABLISHED FOR EACH INDIVIDUAL LOCATION BASED UPON SITE SPECIFIC VARIABLES. THE TYPE OF LAND USE (I.E. INDUSTRIAL, COMMERCIAL, RESIDENTIAL), ANTICIPATED POLLUTANT LOAD, PERCENT IMPERVIOUSNESS, CLIMATE, ETC. ALL PLAY A CRITICAL ROLE IN DETERMINING THE ACTUAL FREQUENCY OF INSPECTION AND MAINTENANCE PRACTICES. AT A MINIMUM, STORMTECH RECOMMENDS ANNUAL INSPECTIONS. INITIALLY, THE ISOLATOR ROW PLUS SHOULD BE INSPECTED EVERY 6 MONTHS FOR THE FIRST YEAR OF OPERATION. FOR SUBSEQUENT YEARS, THE INSPECTION SHOULD BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION. THE ISOLATOR ROW PLUS INCORPORATES A COMBINATION OF STANDARD MANHOLE(S) AND STRATEGICALLY LOCATED INSPECTION PORTS (AS NEEDED). THE INSPECTION PORTS ALLOW FOR EASY ACCESS TO THE SYSTEM FROM THE SURFACE, ELIMINATING THE NEED TO PERFORM A CONFINED SPACE ENTRY FOR INSPECTION PURPOSES. IF UPON VISUAL INSPECTION IT IS FOUND THAT SEDIMENT HAS ACCUMULATED, A STADIA ROD SHOULD BE INSERTED TO DETERMINE THE DEPTH OF SEDIMENT, WHEN THE AVERAGE DEPTH OF SEDIMENT EXCEEDS 3" (75 MM) THROUGHOUT THE LENGTH OF THE ISOLATOR ROW PLUS. CLEAN-OUT SHOULD BE PERFORMED.

MAINTENANCE

THE ISOLATOR ROW PLUS WAS DESIGNED TO REDUCE THE COST OF PERIODIC MAINTENANCE. BY "ISOLATING" SEDIMENTS TO JUST ONE ROW, COSTS ARE DRAMATICALLY REDUCED BY ELIMINATING THE NEED TO CLEAN OUT EACH ROW OF THE ENTIRE STORAGE BED. IF INSPECTION INDICATES THE POTENTIAL NEED FOR MAINTENANCE, ACCESS IS PROVIDED VIA A MANHOLE(S) LOCATED ON THE END(S) OF THE ROW FOR CLEANOUT. IF ENTRY INTO THE MANHOLE IS REQUIRED, PLEASE FOLLOW LOCAL AND OSHA RULES FOR A CONFINED SPACE ENTRY. MAINTENANCE IS ACCOMPLISHED WITH THE JETVAC PROCESS. THE JETVAC PROCESS UTILIZES A HIGH PRESSURE WATER NOZZLE TO PROPEL ITSELF DOWN THE ISOLATOR ROW PLUS WHILE SCOURING AND SUSPENDING SEDIMENTS. AS THE NOZZLE IS RETRIEVED, THE CAPTURED POLLUTANTS ARE FLUSHED BACK INTO THE MANHOLE FOR VACUUMING. MOST SEWER AND PIPE MAINTENANCE COMPANIES HAVE VACUUM/JETVAC COMBINATION VEHICLES. SELECTION OF AN APPROPRIATE JETVAC NOZZLE WILL IMPROVE MAINTENANCE EFFICIENCY. FIXED NOZZLES DESIGNED FOR CULVERTS OR LARGE DIAMETER PIPE CLEANING ARE PREFERABLE. REAR FACING JETS WITH AN EFFECTIVE SPREAD OF AT LEAST 45" ARE BEST. STORMTECH RECOMMENDS A MAXIMUM NOZZLE PRESSURE OF 2000 PSI BE UTILIZED DURING CLEANING. JETVAC REELS CAN VARY IN LENGTH. FOR EASE OF MAINTENANCE, ADS RECOMMENDS ISOLATOR ROW PLUS LENGTHS UP TO 200' (61 M). THE JETVAC PROCESS SHALL ONLY BE PERFORMED ON STORMTECH ISOLATOR

ROW PLUS THAT HAVE ADS PLUS FABRIC (AS SPECIFIED. ENTITY THAT WILL BE RESPONSIBLE ENTITY FOR THE OPERATION & MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER

MSD OF PIKE 6901 ZIONSVILLE RD IndianapolisIN46268 317-293-0393 317-297-7896



VICINITY MAP



SOIL MAP

| Map Unit Symbol | Map Unit Name Urban land-Brookston complex, 0 to 2 percent slopes Urban land-Crosby silt loam complex, fine-loamy subsoil, 0 to 2 percent slopes Brookston silty clay loam-Urban land complex, 0 to 2 percent Crosby silt loam, fine-loamy subsoil-Urban land complex, 0 to 2 percent slopes Crosby-Urban land-Miami silt loams complex, 2 to 4 percent YcmB2 Eel silt loam-Urban land complex, 0 to 2 percent slopes, frequently flooded, brief duration Miami silt loam-Urban land complex, 2 to 6 percent slopes, YmsB2 Shoals silt loam-Urban land complex, 0 to 2 percent slopes, frequently flooded, brief duration

EROSION CONTROL REQUIREMENT NOTE: "I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE CONSTRUCTION GENERAL STORMWATER PERMIT AND THE STORMWATER POLLUTION PREVENTION PLAN THAT AUTHORIZES THE STORMWATER DISCHARGE ASSOCIATED WITH ACTIVITIES FROM THE CONSTRUCTION SITE. A TRAINED INDIVIDUAL, AS DEFINED BY THE NPDES GENERAL PERMIT APPENDIX B. WILL BE USED FOR STORMWATER IMPLEMENTATION. SELF-MONITORING AND STORMWATER PROJECT MANAGEMENT.

CONTRACTOR SIGNATURE

EROSION CONTROL AND ONSITE CONTACT RESPONSIBLE PARTY CONTACT INFORMATION:

RAUL RIVAS DIRECTOR OF FACILITIES AND SECURITY 2950 WEST 56TH STREET INDIANAPOLIS, IN. 46254

RRivas@pike.k12.in.us PH: 317-280-2450

MARION COUNTY SOIL AND WATER CONSERVATION PHONE INFORMATION

MEASURES

IDEM EMERGENCY SPILL PHONE INFORMATION PH: 1-888-233-7745 1-317-233-7745

PH: 1-317-786-1776

IDEM ATTAINS FAGLE CREEK WMP WMP NAME WATERSHED SPECIALIST MIRANDA WENTZ PHONE 317-308-3376 mwentz@idem in gov INW01B9 01 AU NAME LITTLE EAGLE CREEK CATEGORY ASSESSED YES IMPAIRED YES THREATENED NO ON 303(d) LIST YES HAS TDML HAS 4B PLAN ECOLOGICAL USE FULLY SUPPORTING FISH CONSUMPTION USE NOT ASSESSED RECREATION USE NOT SUPPORTING NOT SUPPORTING OVERALL STATUS

2.000 250 500 1.000 1.500

National Flood Hazard Layer FIRMette

E FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOU Without Base Flood Elevation (BFE) With BFE or Depth Zone AE. AO. AH. VE. AR. depth less than one foot or with drainage Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Area with Flood Risk due to Levee Zon NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone (B) 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline OTHER - Profile Baseline — Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approxima oint selected by the user and does not represe an authoritative property location. nls map complies with FEMA's standards for the use of tal flood maps if it is not void as described below e basemap shown complies with FEMA's basemap curacy standards The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/22/2024 at 11:45 AM and does not ime. The NFHL and effective information may change or his man image is void if the one or more of the following man

> lements do not appear: basemap imagery, flood zone labels egend, scale bar, map creation date, community identifiers, TRM panel number, and FIRM effective date. Map images for

unmapped and unmodernized areas cannot be used for

MSD PIKE TOWNSHIP PIKE HIGH SCHOOL BASEBALL/SOFTBALL RENOVATIONS 5401 W. 71ST STREET INDIANAPOLIS, IN. 46268

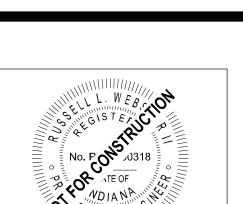
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317-334-1500 **TLF-ENGINEERS.COM** 3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268





PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301

PROJECT ISSUE DATE: 10/03/2024

DESCRIPTION

STORMWATER POLLUTION **PREVENTION PLAN - SWPPP**



Call 811 or 800-382-5544 Before you Dig.

Call 48 hours or 2 working days before you dig.

CONTACT (IDEM) & THE CITY OF INDIANAPOLIS 48 HOURS PRIOR TO STARTING

AND THE MINIMUM ONCE A WEEK INSPECTION.

ACTIVITY. ALL THE SILT FENCE AND WEIGHED WATTLES SHALL BE INSTALLED.

THOSE STRUCTURES AS OUTLINED ON THE EROSION CONTROL SHEETS.

WASTE CONTAINERS (TRASH RECEPTACLES MUST BE MANAGED TO REDUCE THE DISCHARGE OF POLLUTANTS AND BLOWING OF DEBRIS. WASTE CONTAINERS MUST HAVE A COVER TO MINIMIZE EXPOSURE OF WASTE TO PRECIPITATION OR WASTE MUST BE REMOVED FROM THE SITE DAILY AND DISPOSED OF PROPERLY. CONCRETE WASHOUT OUT AREAS ARE OUTLINED ON THE PLANS. PROPER INSTALLATION, MAINTENANCE AND UTILIZATION SHALL BE OBSERVED TO CONTROL CONCRETE AND CEMENTITIOUS WATER. CONCRETE WASHOUT AREAS SHALL BE LEAK PROOF AND LOCATED AWAY FROM STORMWATER INLETS AND DISCHARGE POINTS. PROPER STORAGE AND HANDLING OF MATERIALS, SUCH AS FUELS OR HAZARDOUS WASTES MUST BE IMPLEMENTED TO MINIMIZE THE POTENTIAL FOR POLLUTANTS TO CONTAMINATE SURFACE OR GROUND WATER OR DEGRADE SOIL QUALITY. STORAGE OF MATERIALS OUTSIDE OF THE PROJECT LIMITS IS STRICTLY PROHIBITED.

PERSONNEL ASSOCIATED WITH THE PROJECT MUST BE CONSTRUCTION STORMWATER GENERAL PERMIT (CGSP), THE MANAGEMENT FIRMS, GRADING/EXCAVATING CONTRACTORS,

ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES

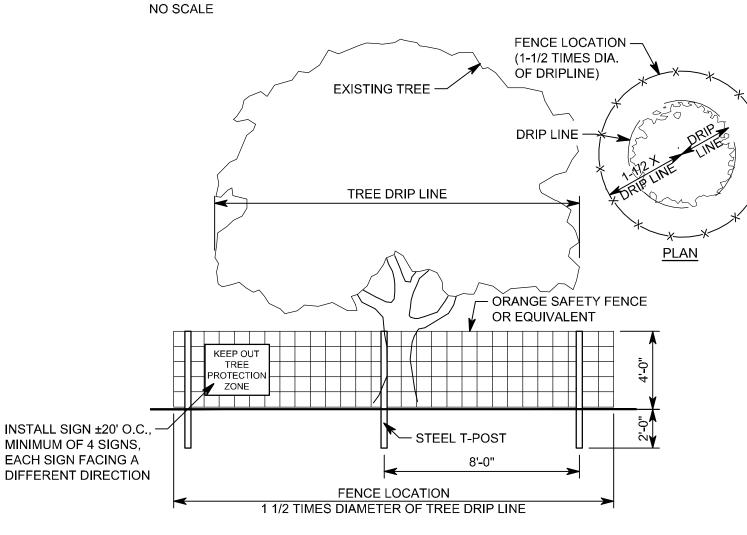
UNTREATED RAW WASTEWATER MAY NOT BE DISCHARGED TO LAND, THE STORM DRAIN SYSTEM OR TO SURFACE

4 ARRANGE REGULAR WASTE COLLECTION BY A LICENSED HAULER

- 1) THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VIEWABLE BY THE GENERAL PUBLIC, BUT NOT
- 2) ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THENOTICE-OF-TERMINATION
- CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE LOCAL AGENCY. 4) SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS
- UNLESS APPROVED BY THE GOVERNING AGENCY. 5) CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THIS SWPPP

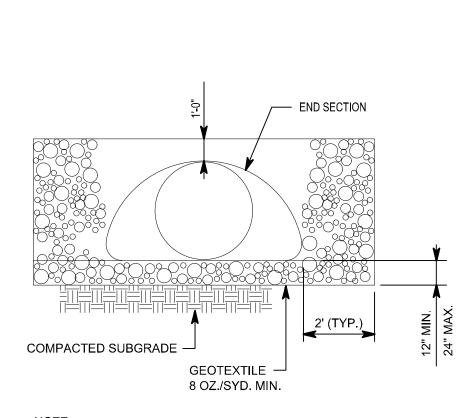
INFORMATION SIGN.

SWPPP INFORMATION SIGN - DETAIL M

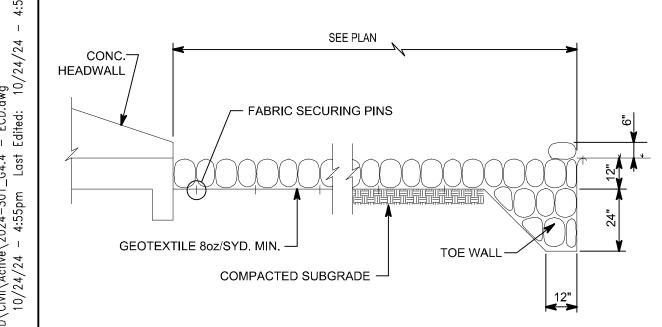


- 1. FENCE AROUND TREES AS SHOWN ABOVE TO KEEP EQUIPMENT OFF THE ROOT AREA 2. WHEN REQUIRED TO CROSS THE PROTECTION-ZONE CUSHION THE AREA WITHIN THE TREE PROTECTION ZONE WITH 6 INCHES OF WOOD CHIPS OR HARDWOOD MULCH. 3. CREATE TRAFFIC PATTERNS SUCH AS TO KEEP SOIL COMPACTION TO A MINIMUM
- ADJACENT TO THE TREE PROTECTION ZONE. 4. STORE SUPPLIES AND EQUIPMENT AWAY FROM TREES
- 5. DESIGNATE SITES WELL AWAY FROM TREES FOR WASHING OUT CONCRETE TRUCKS.
- REFER TO EROSION CONTROL PLANS FOR LOCATION OF CONCRETE WASHOUT AREAS. 6. INSTALL ONE ACCESS GATE PER TREE PROTECTION ZONE.
- 7. MAINTAIN TREE PROTECTION ZONES FREE OF WEEDS AND TRASH.

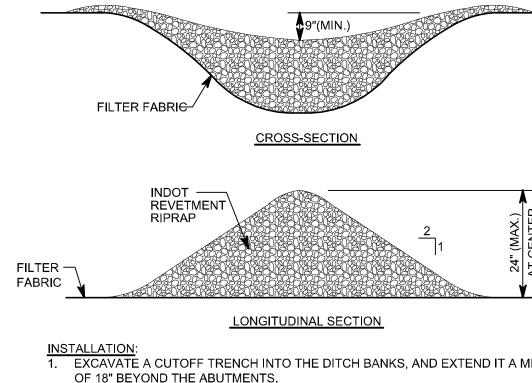
TREE PROTECTION - DETAIL N



NOTE:
RIPRAP SHALL EXTEND MIN. 6'-0" OUT FROM END SECTION



RIPRAP AT END SECTION - DETAIL P



INSTALLATION:

1. EXCAVATE A CUTOFF TRENCH INTO THE DITCH BANKS, AND EXTEND IT A MINIMUM

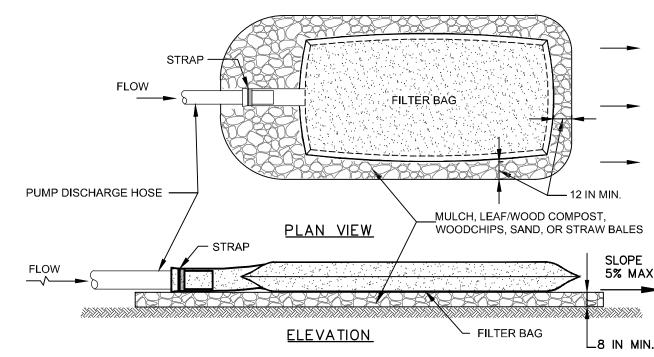
PLACE THE ROCK IN THE CUTOFF TRENCH AND CHANNEL TO THE LINES AND DIMENSIONS SHOWN 3. EXTEND THE ROCK AT LEAST 18" BEYOND THE CHANNEL BANKS TO KEEP OVERFLOW WATER FROM UNDERCUTTING THE DAM AS IT RE-ENTERS THE CHANNEL

MAINTENANCE:
1. INSPECT CHECK DAMS AND THE CHANNEL AFTER EACH STORM EVENT, AND REPAIR ANY DAMAGE IMMEDIATELY. 2. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, INSTALL A RIPRAP LINER IN THAT PORTION OF THE CHANNEL

. REMOVE SEDIMENT ACCUMULATED BEHIND EACH DAM AS NEEDED TO MAINTAIN CHANNEL CAPACITY, TO ALLOW DRAINAGE THROUGH THE DAM, AND TO PREVENT LARGE FLOWS FROM DISPLACING SEDIMENT. 4. ADD ROCK TO THE DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS-SECTION.

ROCK CHECK DAM - DETAIL K

5. WHEN THE DAMS ARE NO LONGER NEEDED, REMOVE THE ROCK AND STABILIZE CHANNEL WITH SPECIFIED EROSION CONTROL BLANKET AND SEEDING.



CONSTRUCTION SPECIFICATIONS

- 1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
- 2. PLACE FILTER BAG ON SUITABLE BASE (E.G., AGGREGATE, SAND, OR STRAW) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM
- 3. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE 4. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG

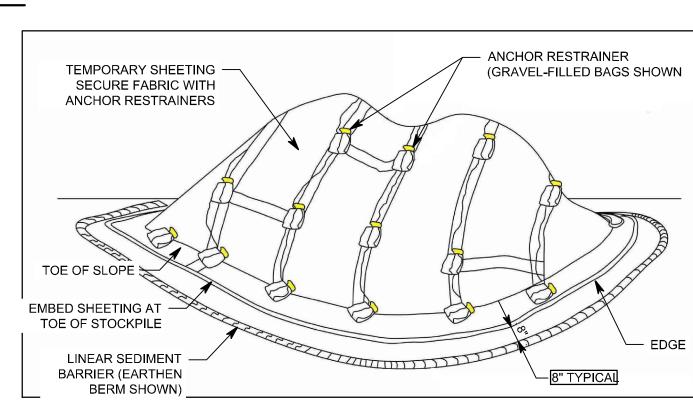
HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN

APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE. 5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE

GRAB TENSILE ASTM D-4632 PUNCTURE ASTM D-4833 FLOW RATE ASTM D-4491 PERMITTIVITY (SEC ASTM D-4491 ASTM D-4355 UV RESISTANCE 70% STRENGTH @ 500 HOURS APPARENT OPENING SIZE (AOS) 0.15-0.18 MM ASTM D-4751

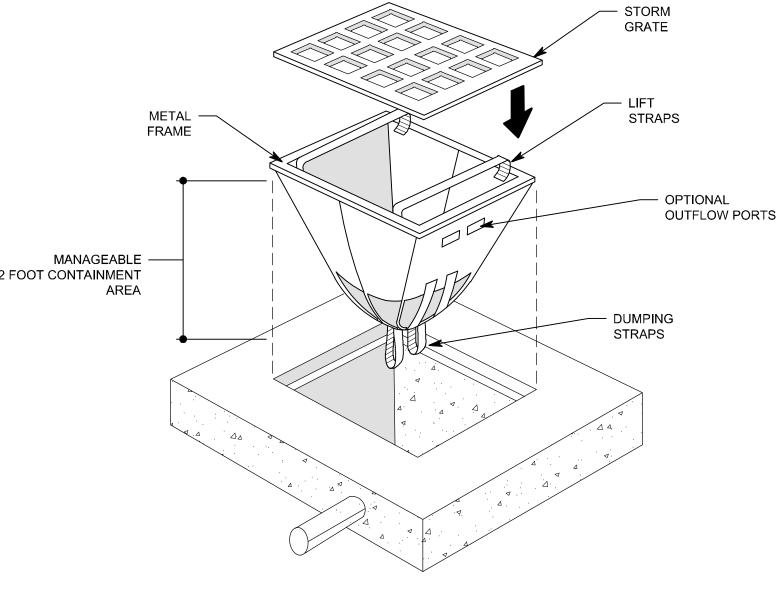
ASTM D-4632 SEAM STRENGTH 6. REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

DEWATERING BAG - DETAIL L



- 1. PLASTIC SHEETING IS USED TO PROVIDE IMMEDIATE PROTECTION TO STOCKPILES FROM RAINFALL AND EROSION.
- 2. OVERLAP SEAMS 2' 4'. TAPE, ROLL, AND STAKE THE SEAMS.
- 3. ANCHOR THE COVERINGS/SHEETING USING SANDBAGS ON A 10' GRID SPACING IN ALL DIRECTIONS.
- 4. INSTALL A GRAVEL BERM, RIPRAP, OR OTHER SUITABLE SEDIMENT BARRIER AT THE TOP OF THE STOCKPILE, PROVIDE ENERGY DISSIPATION AT THE TOE WHEN NEEDED
- INSPECT ONCE PER WEEK AND WITHIN 24 HOURS FOLLOWING A 0.5 INCH RAIN EVENT. REPLACE TORN SHEETS AND REPAIR SEAMS. COMPLETELY REPLACE PLASTIC WHEN IT BEGINS TO DETERIORATE.
- 6. NO MATERIAL SHALL LEAVE THE SIDE OR MOVE INTO ANY PAVED AREA.
- 7. DO NOT LOCATE WITHIN 50 FEET OF A STORM DRAIN.

TEMPORARY COVER ON STOCKPILE - DETAIL O

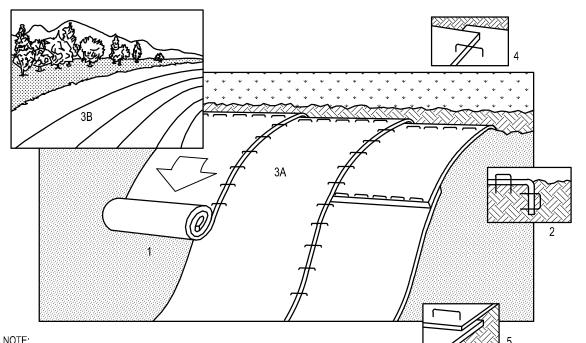


DANDY SACK®, FRAMED MODEL

MAINTENANCE

- 1. INSPECT WEEKLY AND AFTER EACH STORM EVENT. IF FABRIC IS TORN OR DETERIORATED, REPLACE IMMEDIATELY.
- REMOVE SEDIMENT ON A REGULAR SCHEDULE OR WHEN UNIT IS MORE THAN 1/3 FULL.
- 3. AFTER DRAINAGE AREA IS STABILIZED, REMOVE SEDIMENT BAG.

AREA INLET SEDIMENT BAG - DETAIL G NO SCALE



REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR

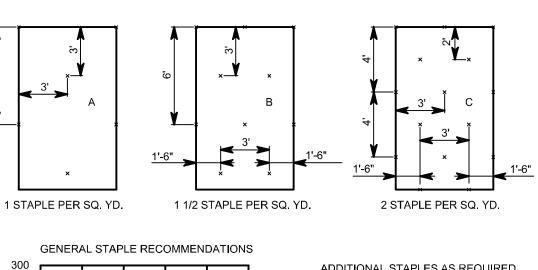
OVERLAPPED AREA, APPROXIMATELY 12" APART.

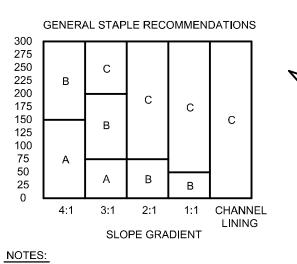
SLOPE INSTALLATIONS. 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE

TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"

5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH

EROSION CONTROL BLANKET SLOPE INSTALLATION - DETAIL H





ADDITIONAL STAPLES AS REQUIRED CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL

STAPLES ON SIDE SLOPES.

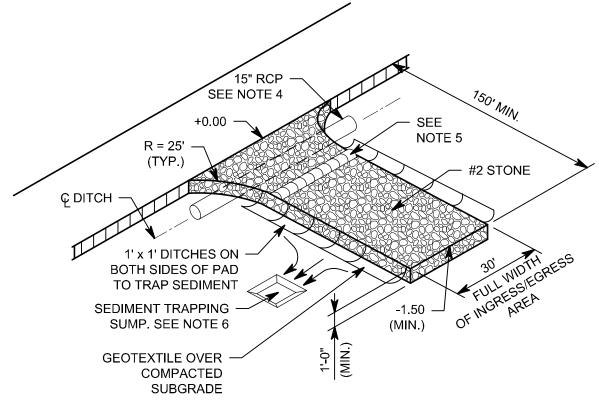
BY THAT MANUFACTURER.

- 1. STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION BLANKETS 2. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE ANNUAL RAINFALL 3. AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER
- LARGE AREAS IS DIRECTED ONTO BLANKETS, STAPLE PATTERN "C" SHALL 4. CHANNEL LININGS REQUIRE A 2' (MIN.) OVERLAP AT LONGITUDINAL JOINTS AND SIDE SLOPES REQUIRE A 6" (MIN.) OVERLAP, WHERE OVERLAPS OCCUR, THE UPSTREAM BLANKET SHALL OVERLAP THE DOWNSTREAM.

5. IF OTHER THAN NORTH AMERICAN GREEN EROSION CONTROL BLANKETS

ARE INSTALLED, FOLLOW THE INSTALLATION DIRECTIONS RECOMMENDED

EROSION CONTROL BLANKET STAPLE PATTERN - DETAIL J



- 1. PLACE WHEREVER DIRT OR MUD COULD ENTER PUBLIC STREETS AND IN CONSTRUCTION TRAFFIC AREAS REQUIRING DUST CONTROL
- 2. PLACE ENTRANCE ON LEVEL GROUND WHERE POSSIBLE. 3. PROVIDE A SEDIMENT TRAP OR SILT FENCE BARRIER FOR RUNOFF FROM THE ENTRANCE AREA
- 4. WHERE CONSTRUCTION ENTRANCE CROSSES DITCH OR SWALE, A STORM PIPE (RCP) UNDER THE CONSTRUCTION ENTRANCE IS REQUIRED. INVERTS TO BE PLACE AT EXISTING ELEVATION. PIPE SIZE TO BE 12" U.NO.
- ENTRANCES SLOPING TOWARD EXISTING ROADWAY. 6. SEDIMENT SUMP REQUIRED FOR ENTRANCES THAT DRAIN TOWARDS THE ROADWAY. GRADE ENTRANCE TO DRAIN TO SUMP. CONTRACTOR SHALL MONITOR AND REMOVE SEDIMENT FROM SUMP AS NECESSARY

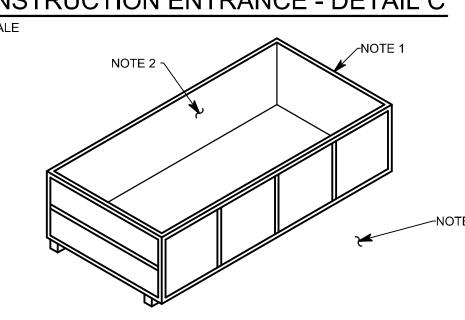
5. BERM STONE 8" IN HEIGHT AND 3'-0" WIDE. REQUIRED FOR CONSTRUCTION

MAINTENANCE:

DURING CONSTRUCTION.

- ENTRANCES REQUIRE PERIODIC TOP DRESSING OF STONE
- 2. PLACE NEW STONE IN SURFACE VOIDS. 3. USE ENTRANCE IN CONJUNCTION WITH STREET SWEEPING. PRESSURE WASHING IS NOT PERMITTED.
- 4. REMOVE AGGREGATE AND SEPARATE SEDIMENT FOR DISPOSAL WHEN ENTRANCE BECOMES CLOGGED.
- 5. REPAIR ANY ROAD PAVEMENT DAMAGE CAUSED BY CONSTRUCTION TRAFFIC FROM THE SITE. 6. CITY INSPECTOR MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES

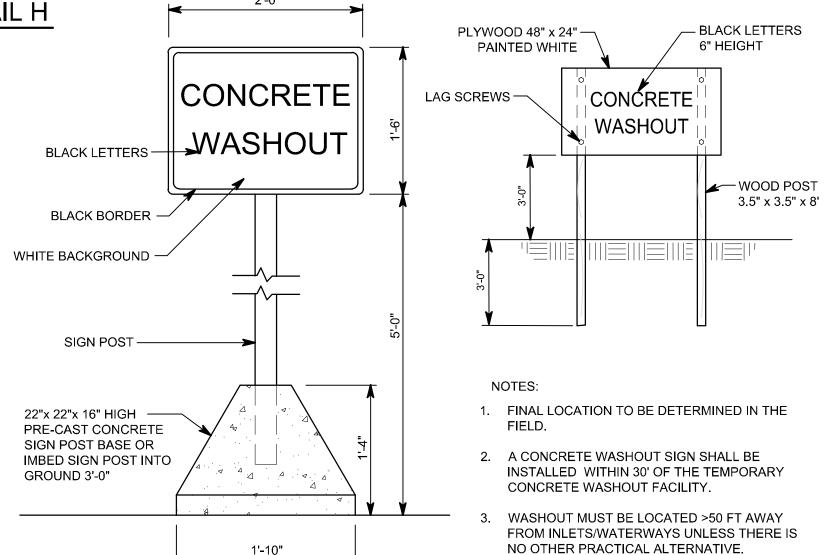
CONSTRUCTION ENTRANCE - DETAIL C



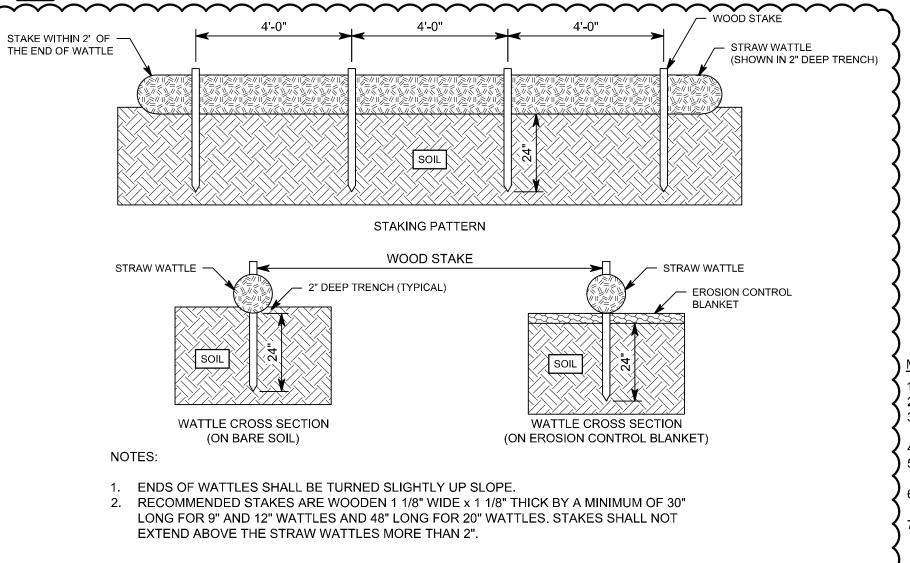
1. PROVIDE 10 YD, OR 15 YD, ROLL OFF DUMPSTER FOR STORAGE OF CONCRETE WASHOUT MATERIAL. SERVICE DUMPSTER WHEN APPROACHING 1/2 FULL USING CARE SO THAT GREY WATER IS NOT SPILLED OUT WHEN DUMPSTER IS

2. PROVIDE LEAKPROOF (10 MIL MIN.) PLASTIC LINER. 3. LOCATE DUMPSTER IN DESIGNATED AND APPROVED

STANDARD WASHOUT - DETAIL D



CONCRETE WASHOUT SIGN - DETAIL E



STRAW WATTLE - DETAIL Q

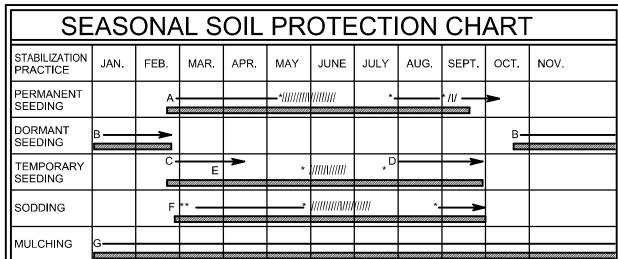
NO SCALE NO SCALE

SOIL EROSION CONTROL SUMMARY

- CONTRACTOR SHALL AT ALL TIMES INSURE THAT EROSION CONTROL MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF CONSTRUCTION OR LAND ALTERATION ACTIVITY.
- 2. AS SOON AS AREAS ARE BROUGHT TO FINISH GRADE OR NEW DRAINAGE FACILITIES ARE CONSTRUCTED, CONTRACTOR SHALL CONSTRUCT THE APPLICABLE EROSION CONTROL
- MEASURES REQUIRED BY AND DELINEATED ON THE APPROVED PLAN. 3. DURING SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL: CONSTRUCT ALL
- PERIMETER SILT BARRIERS. INSTALL AND MAINTAIN CLEAN CRUSHED STONE AT ALL CONSTRUCTION ENTRANCES/EXITS TO THE SITE AND ANY AREAS USED FOR PARKING. PREVENT CONSTRUCTION SILTS FROM LEAVING THE SITE AT ALL TIMES AND PLACE EXCAVATED MATERIALS AWAY FROM ANY DIRECT DRAINAGE FLOW RUNOFF FROM THE SITE.
- 4. TEMPORARY VEGETATION SHALL BE INSTALLED WITHIN 7 DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- 5. PERIMETER SILTATION BARRIERS SHALL BE MAINTAINED AT ALL TIMES.
- 6. AT SUCH TIME THAT ROUGH GRADING OF THE SITE IS COMPLETE AND DRAINAGE DIVERTED TO INLETS, INLET EROSION CONTROL MEASURES SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.
- EROSION CONTROL MEASURES, CONSTRUCTION ENTRANCES AND SILTATION BARRIERS SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. AFTER COMPLETE VEGETATIVE ESTABLISHMENT OR PAVING, ALL SILT IN PIPES, DETENTION FACILITIES AND SWALES SHALL BE REMOVED WITHIN 10 DAYS SO THAT FINISHED GRADES ARE MET.
- CONTRACTOR SHALL CONTROL MUD ACCUMULATION ON ALL STREETS SURROUNDING THE PROJECT BY INSTALLING STONE SURFACE AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC LEAVES THE SITE. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING. CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY ON ADDITIVES OR OTHER APPROVED METHODS. MUD OR SEDIMENT SHALL BE REMOVED FROM ROADS AND STREETS.
- 9. THE IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 10. IT IS THE CONTRACTORS RESPONSIBILITY TO MINIMIZE SEDIMENTATION (FROM ON-SITE CONSTRUCTION ACTIVITIES) FROM BEING DEPOSITED ONTO ADJACENT PROPERTIES AND RECEIVING STREAMS/DITCHES IN STRICT COMPLIANCE WITH "RULE 5' (327 IAC 15-5, CONSTRUCTION ACTIVITY STORMWATER RUNOFF CONTROL). IT IS THE CONTRACTOR'S AND OWNER'S RESPONSIBILITY TO OBTAIN ANY APPROVALS REQUIRED FROM THE LOCAL

PERMANENT SEEDING SPECIFICATIONS

- SWALES/GRASSED WATERWAYS: PERMANENT SEEDING SHALL TAKE PLACE BETWEEN MARCH 1 AND MAY 15 OR FROM AUGUST 10 TO OCTOBER 15 WITH THE FOLLOWING AMOUNTS PER ACRE:
- 25 LBS. KENTUCKY 31 FESQUE 15 LBS. KENTUCKY BLUE GRASS 400-600 LB. 12-12-12 FERTILIZER 3000 LBS. MULCH (STRAW)
- 2. IF GRADES ARE ESTABLISHED BETWEEN OCTOBER 15 AND DECEMBER 30, EITHER RYE (GRAIN) OR WHEAT MAY BE USED AT THE RATE OF 2 BUSHELS/AC. OATS MAY BE USED FOR EARLY SPRING PLANTING AT THE RATE OF 3 BUSHELS/AC. ALL GRAINS SHALL BE CUT AT TIME OF PERMANENT SEEDING. ALL GRAINS SHOULD BE CUT PRIOR TO MATURING.
- 3. IF TEMPORARY SEEDING IS ESTABLISHED PRIOR TO PERMANENT SEEDING, THE MULCH MAY BE ELIMINATED EXCEPT IN "BARE" AREAS.
- 4. IF GRADING OCCURS DURING DECEMBER, JANUARY OR FEBRUARY, NO SEEDING IS TO TAKE PLACE UNTIL SPRING PLANTING; HOWEVER, IT IS IMPERATIVE THAT ALL SEDIMENT FILTERS AND TRAPS ARE IN PLACE PRIOR TO BULK EARTH MOVING OR CLEARING.

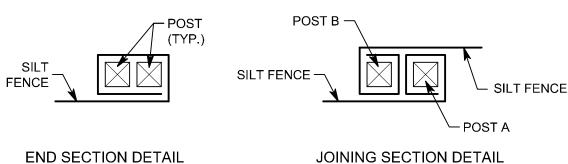


= KENTUCKY BLUEGRASS 120 LBS/ACRE; CREEPING RED FESCUE 120 LBS/ACRE PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYE GRASS 30 LBS/ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY

FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY

- 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER. = SPRING OATS 3 BUSHELS/ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY
- 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
- 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER. = ANNUAL RYE GRASS 40 LBS/ACRE (1 LB/1000 SQ. FT.) FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY
- 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
- G = STRAW MULCH 2 TONS/ACRE
- /I/ * = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER IRRIGATION NEEDED FOR 2 WEEKS AFTER SUPPLYING SOD

TEMPORARY SEEDING CHART - DETAIL A



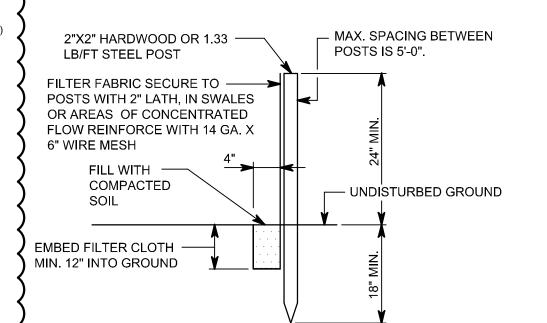
(PLAN VIEW) GEOTEXTILE SHALL BE FOLDED AROUND TWO POSTS ONE FULL TURN.

SECURE GEOTEXTILE TO POST WITH

THREE STAPLES (1/2") MINIMUM.

(PLAN VIEW) FOLD GEOTEXTILE AROUND EACH POST ONE FULL TURN. SECURE GEOTEXTILE TO POST WITH THREE STAPLES (1/2") MINIMUM. POSTS SHALL BE TIGHTLY ABUTTED WITH NO GAPS TO PREVENT POTENTIAL FLOW-THROUGH

OF SEDIMENT AT JOINT.



MAINTENANCE:

- INSPECT WEEKLY AND AFTER EACH STORM EVENT. IF FABRIC IS TORN OR DETERIORATED, REPLACE SECTION IMMEDIATELY.
- REMOVE SEDIMENT WHEN HEIGHT REACHES 1/3 OF OF THE HEIGHT OF THE FENCE OR IS CAUSING FABRIC TO BULGE. TAKE CARE NOT TO UNDERMINE THE ENTRENCHED FABRIC.
- DISTURBED AREA TO GRADE AND STABILIZE IT. SILT FENCE USED AT TOE OF SLOPE SHALL BE PLACED 5' TO 18' BEYOND THE TOE OF SLOPE TO PROVIDE STORAGE CAPACITY.

AFTER DRAINAGE AREA IS STABILIZED, REMOVE FENCE AND SEDIMENT, BRING

SILT FENCE SHALL BE PLACED ON THE CONTOUR, WITH ENDS FLARED UPSLOPE. SILT FENCE - DETAIL B

MSD PIKE TOWNSHIP PIKE HIGH SCHOOL BASEBALL/SOFTBALL **RENOVATIONS**

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ARCHITECT

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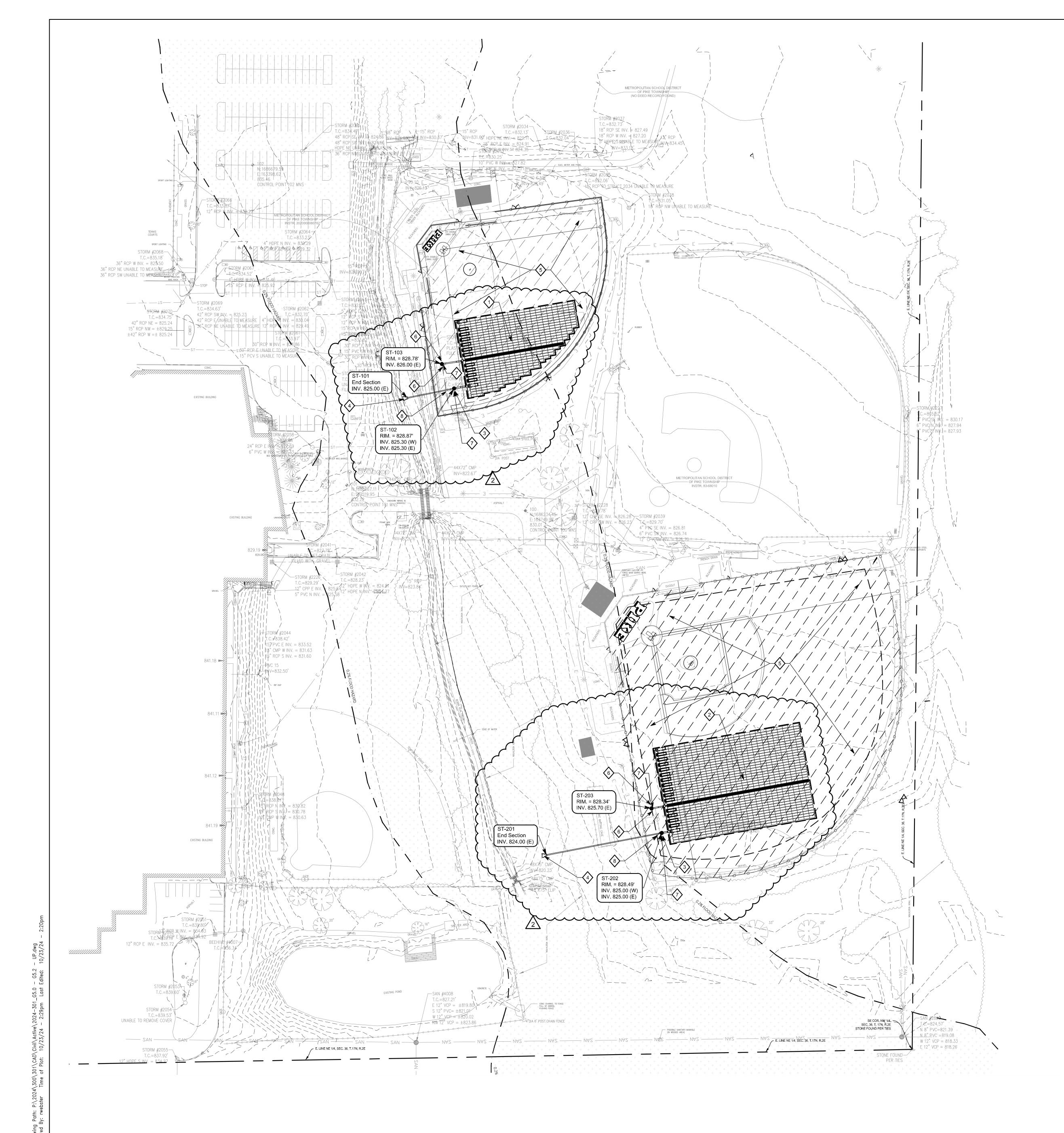


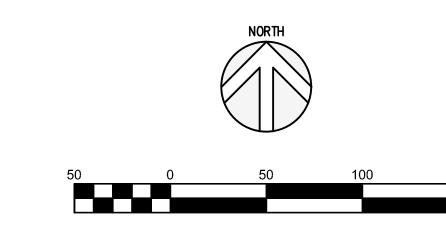


PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301 PROJECT ISSUE DATE: 10/03/2024

DESCRIPTION

EROSION CONTROL DETAILS





GENERAL NOTES

- 1. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY SURVEY FIRST LLC, DATED 08-01-2024. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
- 2. SEE TOPOGRAPHIC SURVEY SHEETS 1-4 FOR BENCHMARK AND CONTROL POINT INFORMATION.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 4. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
- 5. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE
- SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2-INCH PER FOOT SLOPE TO THE MANHOLE WALL.

6. THE BENCHWALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 'U'

PROJECT LIE WITHIN ZONE X REDUCED RISK DUE TO LEVEE. 8. THE BASE FLOOD ELEVATION TAKEN FROM FEMA FIRM MAPS INDICATES THE

7. NO FLOODWAY LIMITS ARE LOCATED WITHIN THE PROJECT LIMITS. AREAS OF

- BASE FLOOD ELEVATION TO BE 820.50'. 9. ALL STORMWATER INLETS AND CATCH BASINS SHALL HAVE THE WORDS "NO
- DUMPING, DRAINS TO STREAM" OR SIMILARLY APPROVED MESSAGE, CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM OF ONE (1) INCH IN HEIGHT. IN ADDITION, A SYMBOL OF A FISH SHALL BE CAST WITH THE LETTERS. STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS "STORM SEWER" CAST IN RECESSED LETTER TWO (2) INCHES IN HEIGHT.

♦ UTILITY KEYNOTES

- 1. PROPOSED UNDERGROUND DETENTION SYSTEM 1. 480 ADS STORMTECH MODEL 310 CHAMBERS. CHAMBER INVERT=825.80, STONE INVERT =825.30. SHALL INCLUDE 6" UNDERDRAIN AND ISOLATOR ROW. REFER TO DETAILS ON SHEET SU6.2.
- 2. PROPOSED UNDERGROUND DETENTION SYSTEM 2. 962 ADS STORMTECH MODEL 310 CHAMBERS. CHAMBER INVERT=825.50, STONE INVERT =825.00. SHALL INCLUDE 6" UNDERDRAIN AND ISOLATOR ROW.REFER TO DETAILS ON SHEET SU6.2.
- 3. PROPOSED OUTLET CONTROL STRUCTURE, REFER TO DETAILS ON SHEET SU6.0-SU6.01
- 4. PROPOSED END SECTION, REFER TO DETAILS ON SHEET SU6.0-SU6.01
- 5. PROPOSED FIELD SECTION WITH UNDERDRAIN SYSTEM, REFER TO
- 6. CONNECT UNDERDRAIN HEADERS TO PROPOSED STRUCTURE
- 7. STRUCTURE SHALL BE COVERED BY GROUND UTILITY BOX FOR MAINTENANCE, AND SHALL BE TURF COVERED. REFER TO PROPOSED SPECIFICATIONS AND PROPOSED LANDSCAPE DRAWINGS.
- 8. VERTICAL CROSS SHALL BE SEPARATED BY 18", AND IF THIS CANNOT BE ACCOMPLISHED, A CONCRETE CRADLE SHALL BE PROVIDED

UTILITY LEGEND

PROPOSED STORM INLET

PROPOSED STORM INLET (NYLOPLAST) PROPOSED STORM MANHOLE PROPOSED UNDERDRAIN

PROPOSED STORM SEWER

REINFORCED CONCRETE PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE PIPE

SEE SURVEY FOR ADDITIONAL LEGEND ITEMS

KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

Call 811 or 800-382-5544 Before you Dig! Call 811 or 1-800-382-5544 Before You Begin Any Digging Project. Call 48 hours or 2 working days before you dig. It's Fast, It's Easy and It's the Law in the state of Indiana!

EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND

ALL CONSTRUCTION.

CAUTION!!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES

SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND

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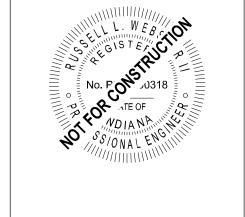
CONSULTANT



TLF-ENGINEERS.COM 3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268







PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301 PROJECT ISSUE DATE: 10/03/2024

REV.	DESCRIPTION	DATE
	PLANS ISSUED FOR BID	10/03/2024
2	ADDENDUM 2	10/24/2024
1		

OVERALL SITE UTILITY



					STORM STRUCTU	RE TABLE						
STR. NO.	STRUCTURE	CASTING TYPE	RIM	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE	CONNECT TO STR.	DETAIL	NORTHING	EASTING
101	End Section	N/A		12" HDPE Pipe 825.00 (E) [102]						A/G6.1	1686379.65	163597.88
102	Type "C" Manhole	R-1772	828.87	18" HDPE Pipe 825.30 (E) []	12" HDPE Pipe 825.30 (W) [101]	61'	12"	0.49%	101		1686391.81	163658.11
103	24" Nyloplast Inlet	2499CGC	828.78		15" HDPE Pipe 826.00 (E) []	25'	16"	0.40%		C/G6.0	1686423.31	163642.43
201	End Section	N/A		12" HDPE Pipe 824.00 (E) [202]						A/G6.1	1685790.83	163777.07
202	Type "C" Manhole	R-1772	828.49	18" HDPE Pipe 825.00 (E) []	12" HDPE Pipe 825.00 (W) [201]	151'	12"	0.66%	201		1685819.23	163925.73
203	24" Nyloplast Inlet	2499CGC	828.34		15" HDPE Pipe 825.70 (E) []	15'	16"	0.68%		C/G6.0	1685850.74	163912.56

 OF PIKE TOWNSHIP -INSTR. 83-68010

KNOW WHAT'S BELOW.

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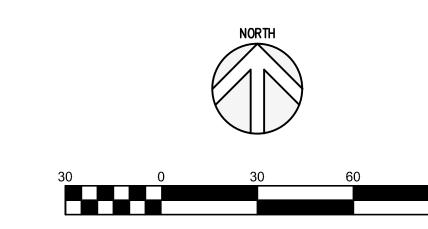
SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CAUTION!!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES

1. PIPE LENGTHS SHOWN IN THE TABLE ARE TO CENTER STRUCTURE. 2. CASTINGS AND FRAMES SHOWN IN TABLE REFER TO NEENAH FOUNDRY MODELS MAY BE SUBSTITUTED WITH AN APPROVED EQUIVALENT CASTING ONLY WITH ENGINEER APPROVAL

STORM STRUCTURE TABLE NOTES:



GENERAL NOTES

- 1. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY SURVEY FIRST LLC, DATED 08-01-2024. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
- 2. SEE TOPOGRAPHIC SURVEY SHEETS 1-4 FOR BENCHMARK AND CONTROL POINT INFORMATION.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 4. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS. AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
- 5. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE
- 6. THE BENCHWALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A 'U' SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2-INCH PER FOOT SLOPE TO
- 7. NO FLOODWAY LIMITS ARE LOCATED WITHIN THE PROJECT LIMITS. AREAS OF PROJECT LIE WITHIN ZONE X REDUCED RISK DUE TO LEVEE.
- 8. THE BASE FLOOD ELEVATION TAKEN FROM FEMA FIRM MAPS INDICATES THE BASE FLOOD ELEVATION TO BE 820.50'.
- 9. ALL STORMWATER INLETS AND CATCH BASINS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM" OR SIMILARLY APPROVED MESSAGE, CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM OF ONE (1) INCH IN HEIGHT. IN ADDITION, A SYMBOL OF A FISH SHALL BE CAST WITH THE LETTERS. STORM SEWER MANHOLE COVERS SHALL HAVE THE WORDS "STORM SEWER" CAST IN RECESSED LETTER TWO (2) INCHES IN HEIGHT.

THE MANHOLE WALL.

- 1. PROPOSED UNDERGROUND DETENTION SYSTEM 1. 480 ADS STORMTECH MODEL 310 CHAMBERS. CHAMBER INVERT=825.80, STONE INVERT =825.30. SHALL INCLUDE 6" UNDERDRAIN AND ISOLATOR ROW. REFER TO DETAILS ON SHEET SU6.2.
- . PROPOSED UNDERGROUND DETENTION SYSTEM 2. 962 ADS STORMTECH MODEL 310 CHAMBERS. CHAMBER INVERT=825.50, STONE INVERT =825.00. SHALL INCLUDE 6" UNDERDRAIN AND ISOLATOR ROW.REFER TO DETAILS ON SHEET SU6.2.
- 3. PROPOSED OUTLET CONTROL STRUCTURE, REFER TO DETAILS ON SHEET SU6.0-SU6.01
- 4. PROPOSED END SECTION, REFER TO DETAILS ON SHEET SU6.0-SU6.01
- 5. PROPOSED FIELD SECTION WITH UNDERDRAIN SYSTEM, REFER TO
- 6. CONNECT UNDERDRAIN HEADERS TO PROPOSED STRUCTURE
- 7. STRUCTURE SHALL BE COVERED BY GROUND UTILITY BOX FOR MAINTENANCE, AND SHALL BE TURF COVERED. REFER TO PROPOSED SPECIFICATIONS AND PROPOSED LANDSCAPE DRAWINGS.
- 8. VERTICAL CROSS SHALL BE SEPARATED BY 18", AND IF THIS CANNOT BE ACCOMPLISHED, A CONCRETE CRADLE SHALL BE PROVIDED

UTILITY LEGEND

PROPOSED STORM SEWER PROPOSED STORM INLET PROPOSED STORM INLET (NYLOPLAST) PROPOSED STORM MANHOLE PROPOSED UNDERDRAIN

> REINFORCED CONCRETE PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE PIPE

SEE SURVEY FOR ADDITIONAL LEGEND ITEMS

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MSD PIKE TOWNSHIP PIKE HIGH SCHOOL BASEBALL/SOFTBALL RENOVATIONS

5401 W. 71ST STREET INDIANAPOLIS, IN. 46268

<u>ARCHITECT</u>



317-848-0966 350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT



TLF-ENGINEERS.COM 3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268

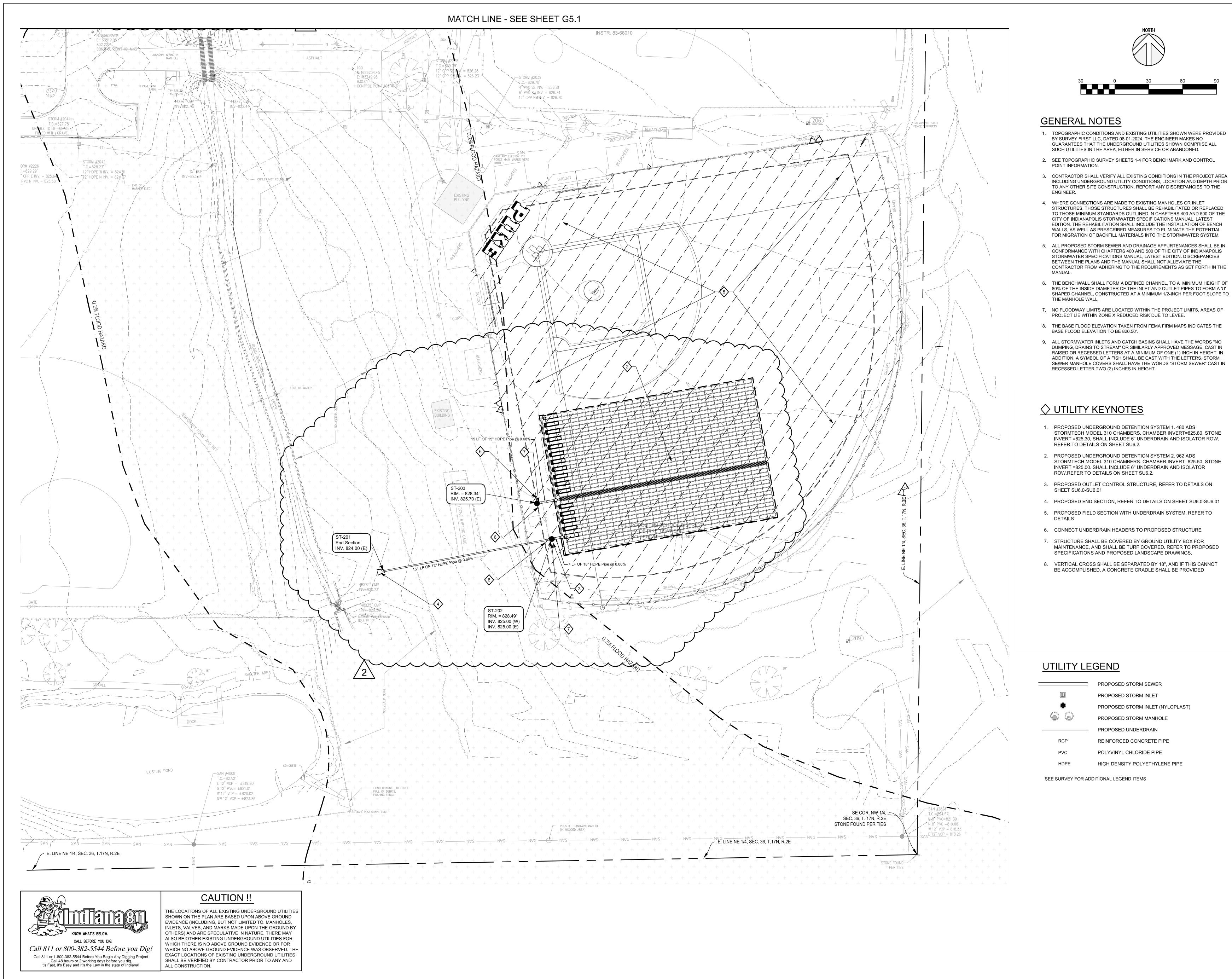




PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301 PROJECT ISSUE DATE: 10/03/2024

REV. NO.	DESCRIPTION	DATE
	PLANS ISSUED FOR BID	10/03/2024
2	ADDENDUM 2	10/24/2024

SITE UTILITY PLAN



MSD PIKE TOWNSHIP PIKE HIGH SCHOOL BASEBALL/SOFTBALL RENOVATIONS

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WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.

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3. PROPOSED OUTLET CONTROL STRUCTURE, REFER TO DETAILS ON SHEET SU6.0-SU6.01

4. PROPOSED END SECTION, REFER TO DETAILS ON SHEET SU6.0-SU6.01

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UTILITY LEGEND

PROPOSED STORM SEWER PROPOSED STORM INLET PROPOSED STORM INLET (NYLOPLAST) PROPOSED STORM MANHOLE PROPOSED UNDERDRAIN

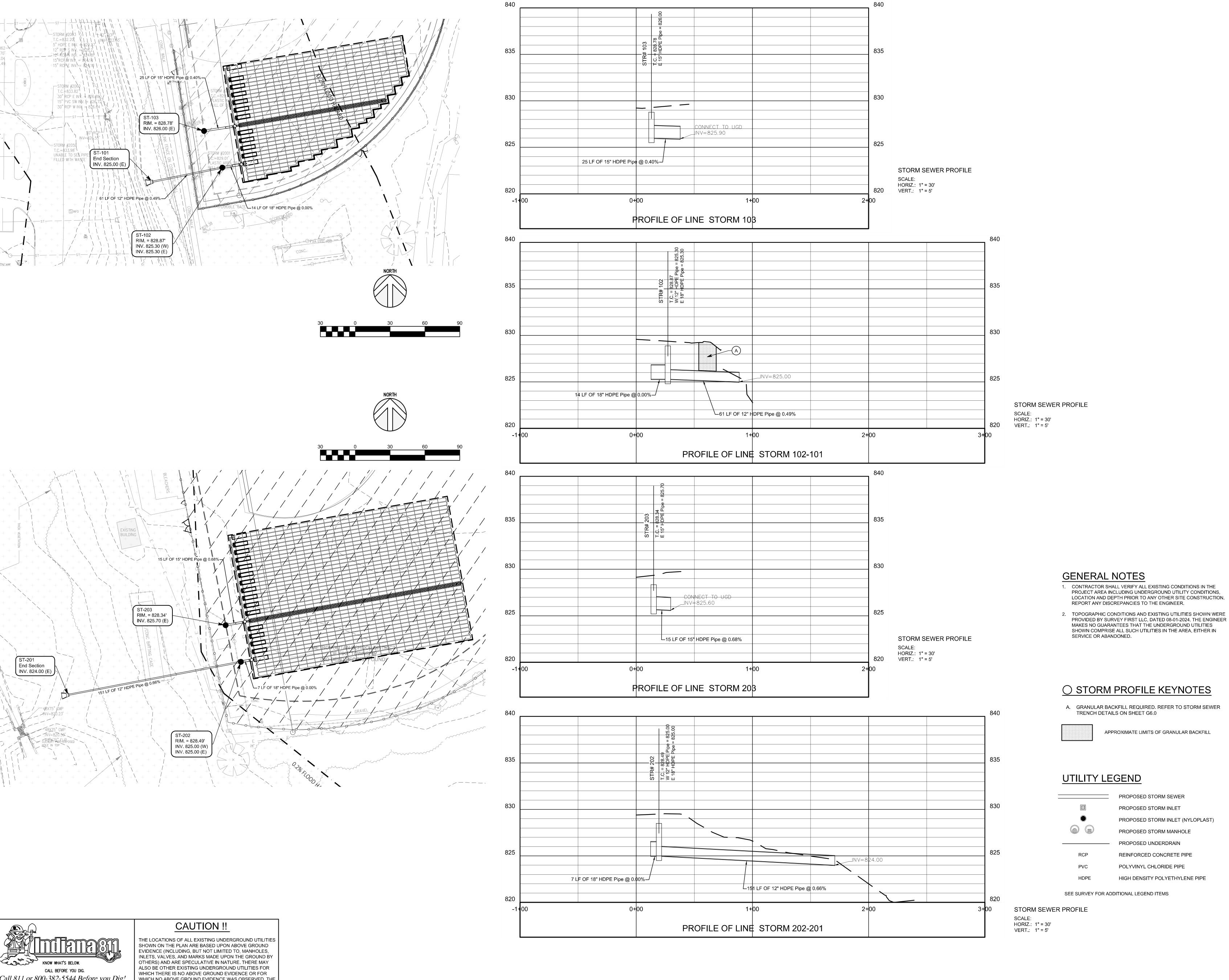
> REINFORCED CONCRETE PIPE POLYVINYL CHLORIDE PIPE HIGH DENSITY POLYETHYLENE PIPE

SEE SURVEY FOR ADDITIONAL LEGEND ITEMS

PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301 PROJECT ISSUE DATE: 10/03/2024

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NO.	DESCRIPTION	DATE
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SITE UTILITY



MSD PIKE TOWNSHIP PIKE HIGH SCHOOL BASEBALL/SOFTBALL RENOVATIONS

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APPROXIMATE LIMITS OF GRANULAR BACKFILL

PROPOSED STORM SEWER

PROPOSED STORM INLET

PROPOSED UNDERDRAIN

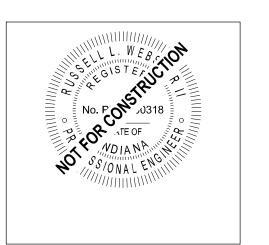
PROPOSED STORM MANHOLE

REINFORCED CONCRETE PIPE

HIGH DENSITY POLYETHYLENE PIPE

POLYVINYL CHLORIDE PIPE

PROPOSED STORM INLET (NYLOPLAST)



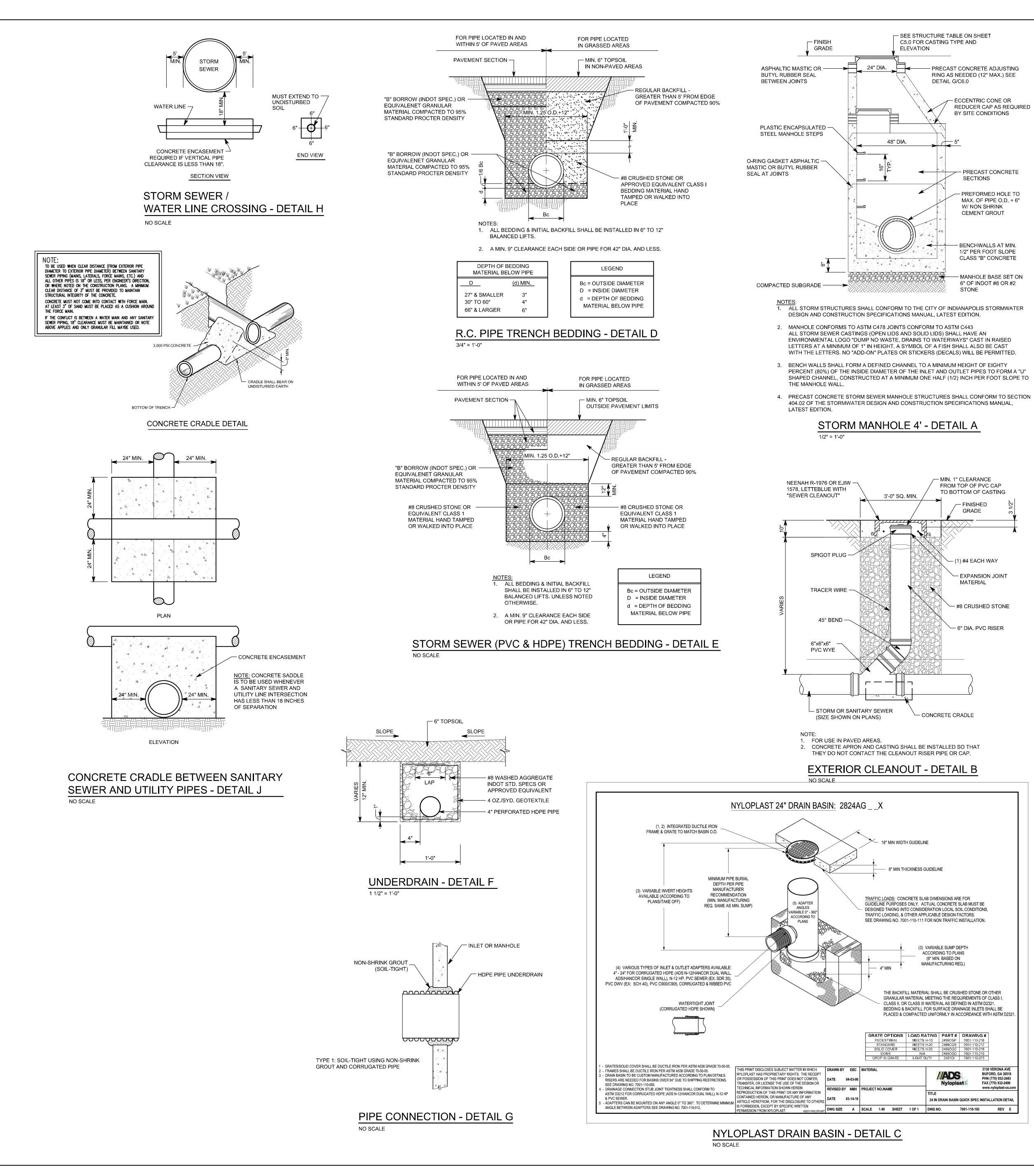
PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301

JECT ISSUE DATE: 10/03/2024					
REV. NO.	DESCRIPTION	ı			
	PLANS ISSUED FOR BID	10			
2	ADDENDUM 2	10			

STORM SEWER PLAN AND PROFILES

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WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.



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PIKE HIGH SCHOOL
BASEBALL/SOFTBALL
RENOVATIONS

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(EY PLAN





PROJECT MANAGER: RLW
DRAWN BY: JHL
PROJECT NUMBER: 2024-301
PROJECT ISSUE DATE: 10/03/2024

REV.
NO. DESCRIPTION

PLANS ISSUED FOR BID

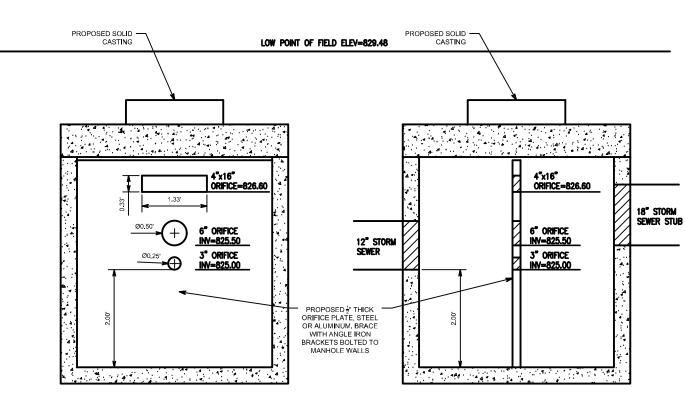
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2 ADDENDUM 2 10/24/2024

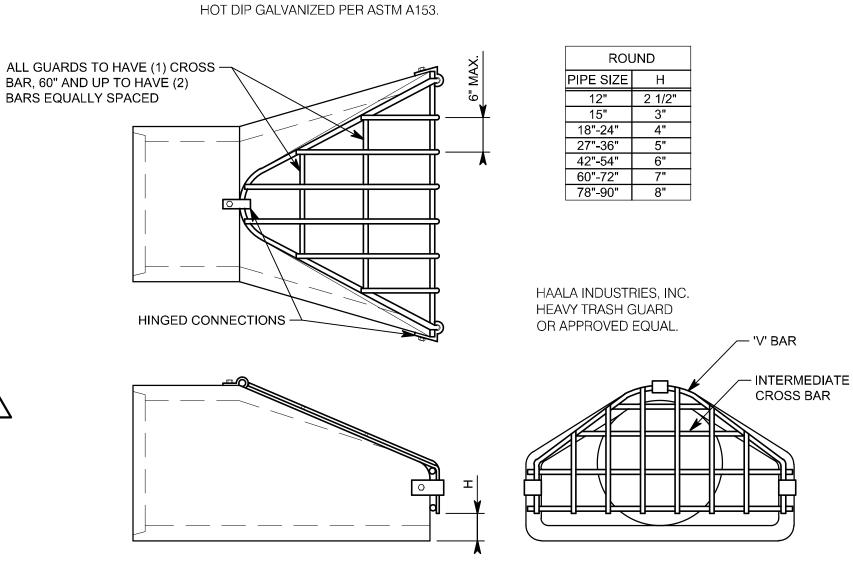
SITE UTILITY DETAILS

SU6.0

STR#103 OUTLET CONTROL STRUCTURE



STR#203 OUTLET CONTROL STRUCTURE

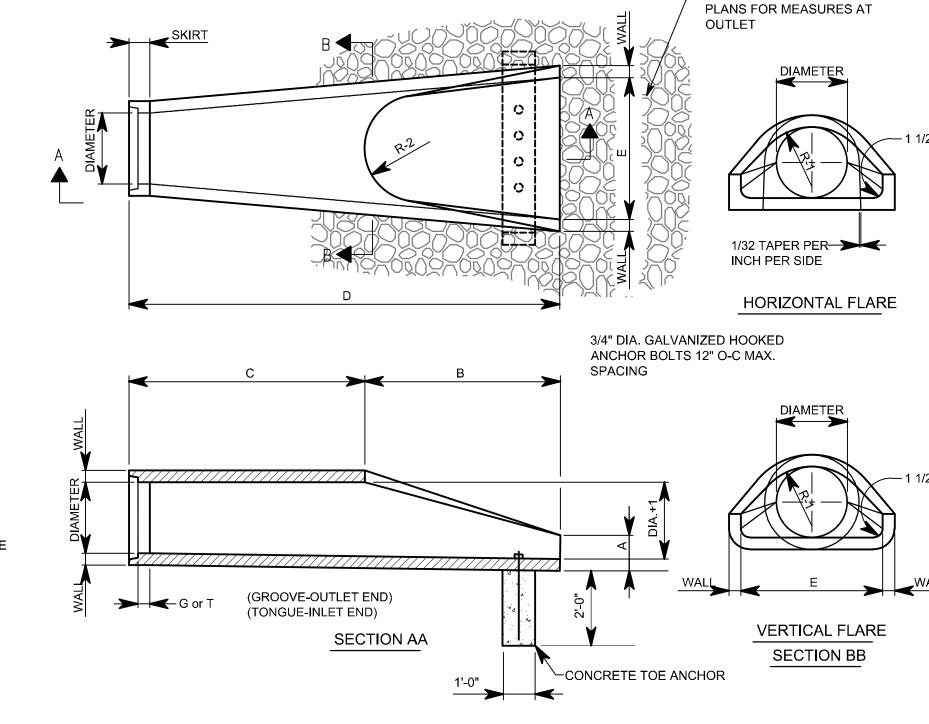


BAR SIZES

HEAVY DESIGN

STANDARD DESIGN

END SECTION TRASH GUARD - DETAIL B



	SIZE SCHEDULE											
DIA.	WALL	G or T	WT. SEC	; A	В	С	D	Е	DIA.+1	R-1	R-2	SKIRT
12	2	1 1/2	530	4	24	48 ½	72 ¾	24	13	10 1/16	9	3 1/2
15	21/4	2	740	6	27	46	73	30	16	12 1/2	11	3 1/2
18	21/2	2 1/2	990	9	27	46	73	36	19	15 1/2	12	4
24	3	2 1/2	1520	9 1/2	43 1/2	30	73 ½	48	25	16 ¹ / ₁₆	14	4 1/2
30	3 ½	3	2190	12	54	19 ¾	73 ¾	60	31	18 1/16	15	5
36	4	3 1/2	4100	15	63	34 ¾	97 ¾	72	37	24 ½ 16	20	5 ½
42	4 1/2	3 3/4	5380	21	63	35	98	78	43	27 1/4	22	5 ½
48	5	4 1/4	6550	24	72	26	98	84	49	28 1/8	22	5 ¾
54	5 ½	4 3/4	8040	27	65	35	100	90	55	32 7/8	24	6 ½
60	6	5	8750	30	60	39	99	96	61	36 ¾	24	6 3/4

NOTE: MANUFACTURER OF END SECTION IS IN ACCORDANCE WITH APPLICABLE PORTIONS OF A.S.T.M. SPECIFICATION C76.

PRECAST CONCRETE END SECTION - DETAIL A

ARCHITECT

၁ OF (

— SEE EROSION CONTROL

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BASEBALL/SOFTBALL

PIKE HIGH SCHOOL

RENOVATIONS

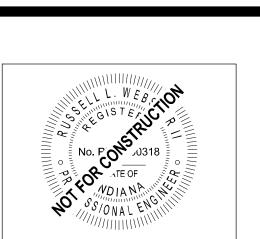
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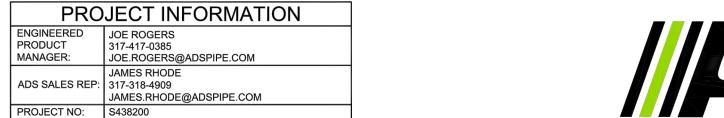




PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301 PROJECT ISSUE DATE: 10/03/2024

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2	ADDENDUM 2	10/24/2024

SITE UTILITY





PIKE HIGH SCHOOL BASEBALL FIELD

 $\bigcirc \bigcirc$

INDIANAPOLIS, IN

SC-310 STORMTECH CHAMBER SPECIFICATIONS

CHAMBERS SHALL BE STORMTECH SC-310.

- 2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1)
- LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787,
- "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
- THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR
- DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO I RED BRIDGE DESIGN SPECIFICATIONS FOR THERMOPI ASTIC PIPE. THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.

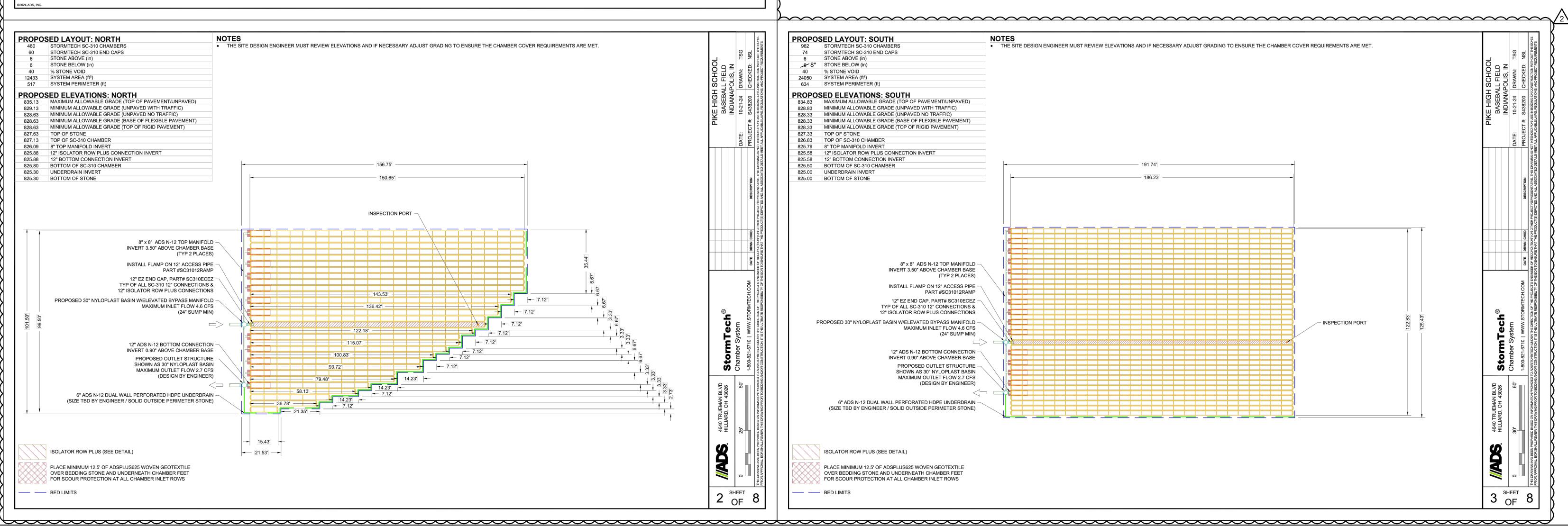
- 10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- 11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

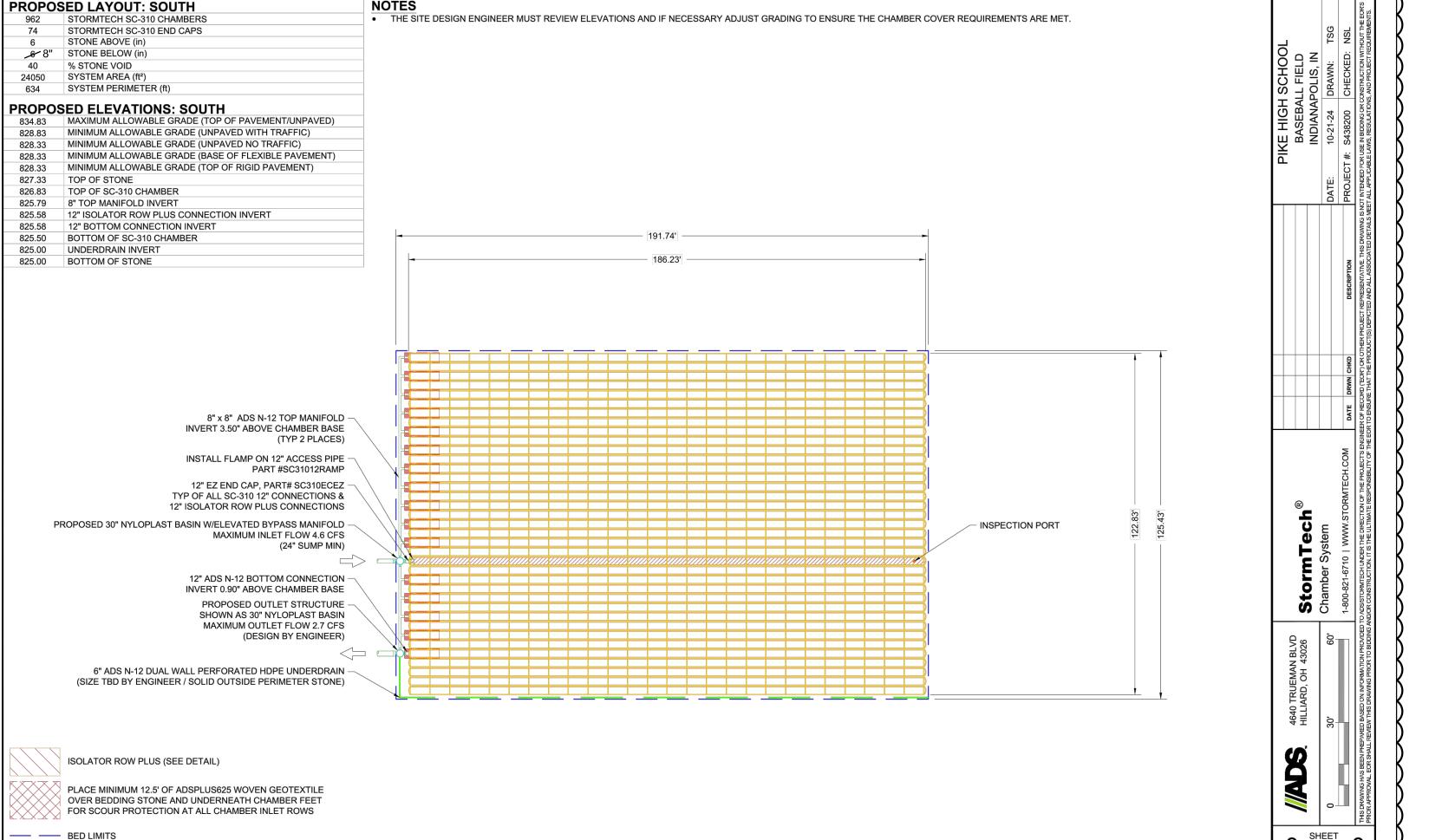
MPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A

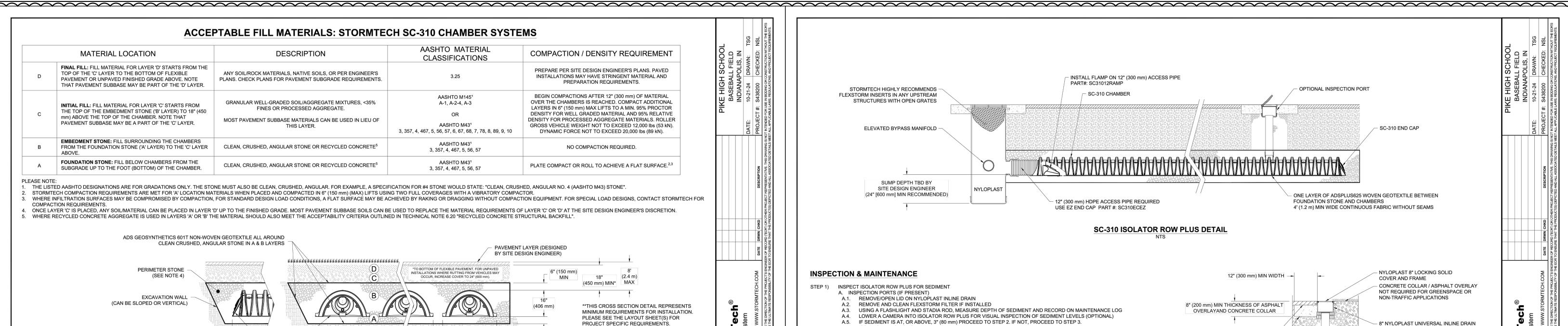
- PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS: STONESHOOTER LOCATED OFF THE CHAMBER BED. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
- BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4,
- 8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE
- STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF. NOTES FOR CONSTRUCTION EQUIPMENT
- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED: NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS. NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE
- WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE". WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE". 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
- ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN







(150 mm) MIN

SUBGRADE SOILS

(SEE NOTE 3)

NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION
- 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. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

YELLOW COLORS.

REQUIREMENTS FOR HANDLING AND INSTALLATION: TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.

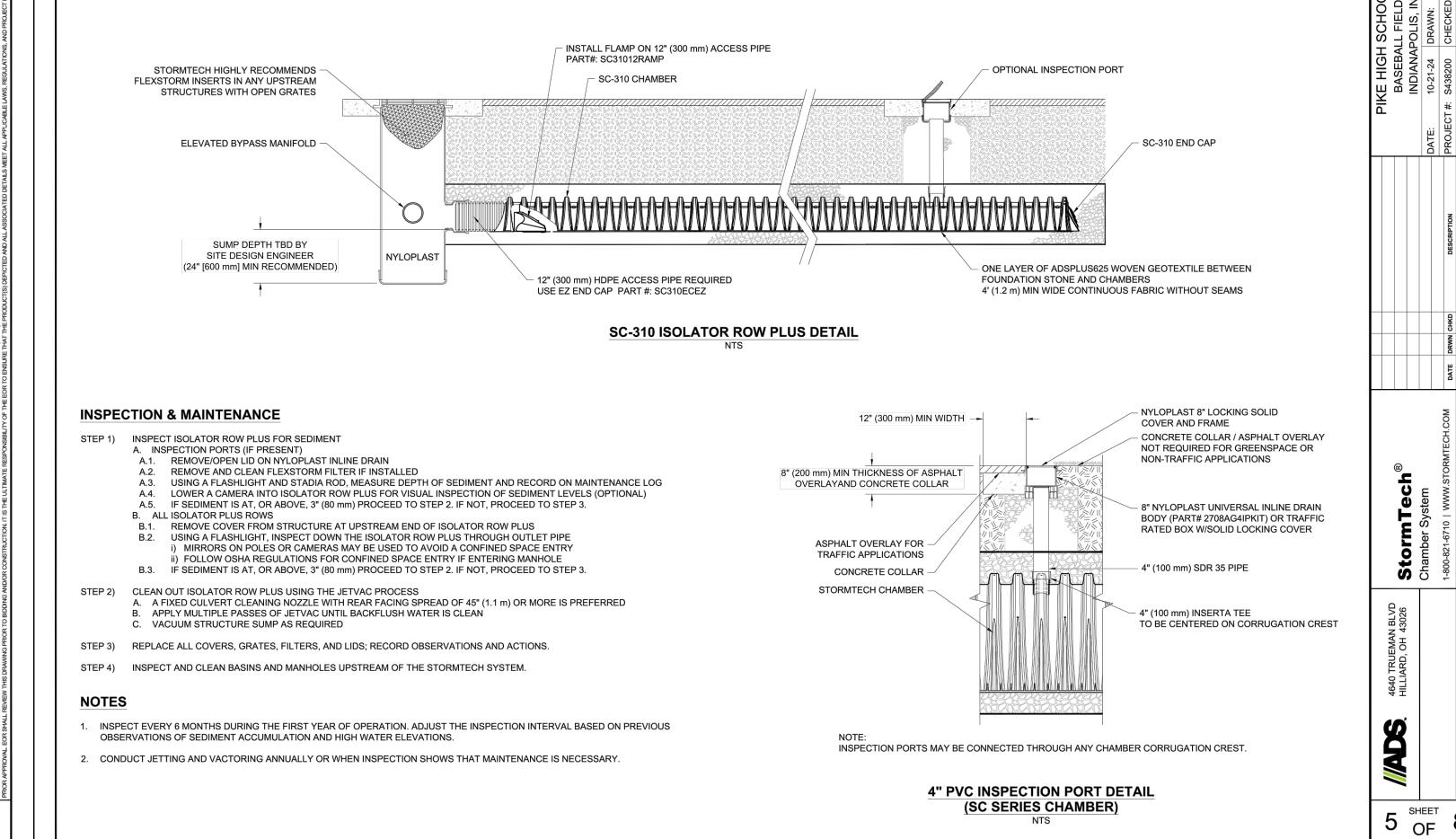
12" (300 mm) MIN -

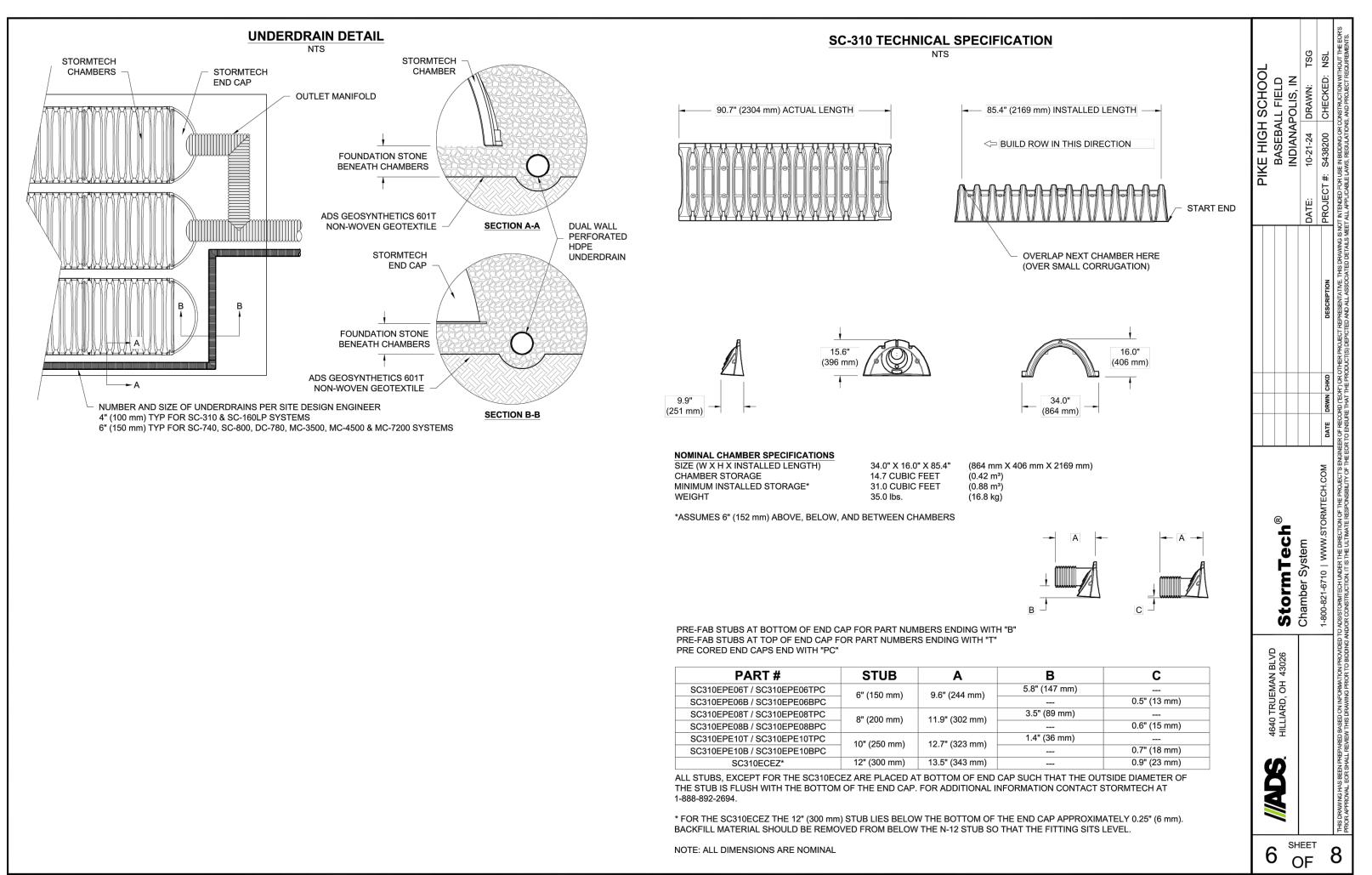
 TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2". TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR

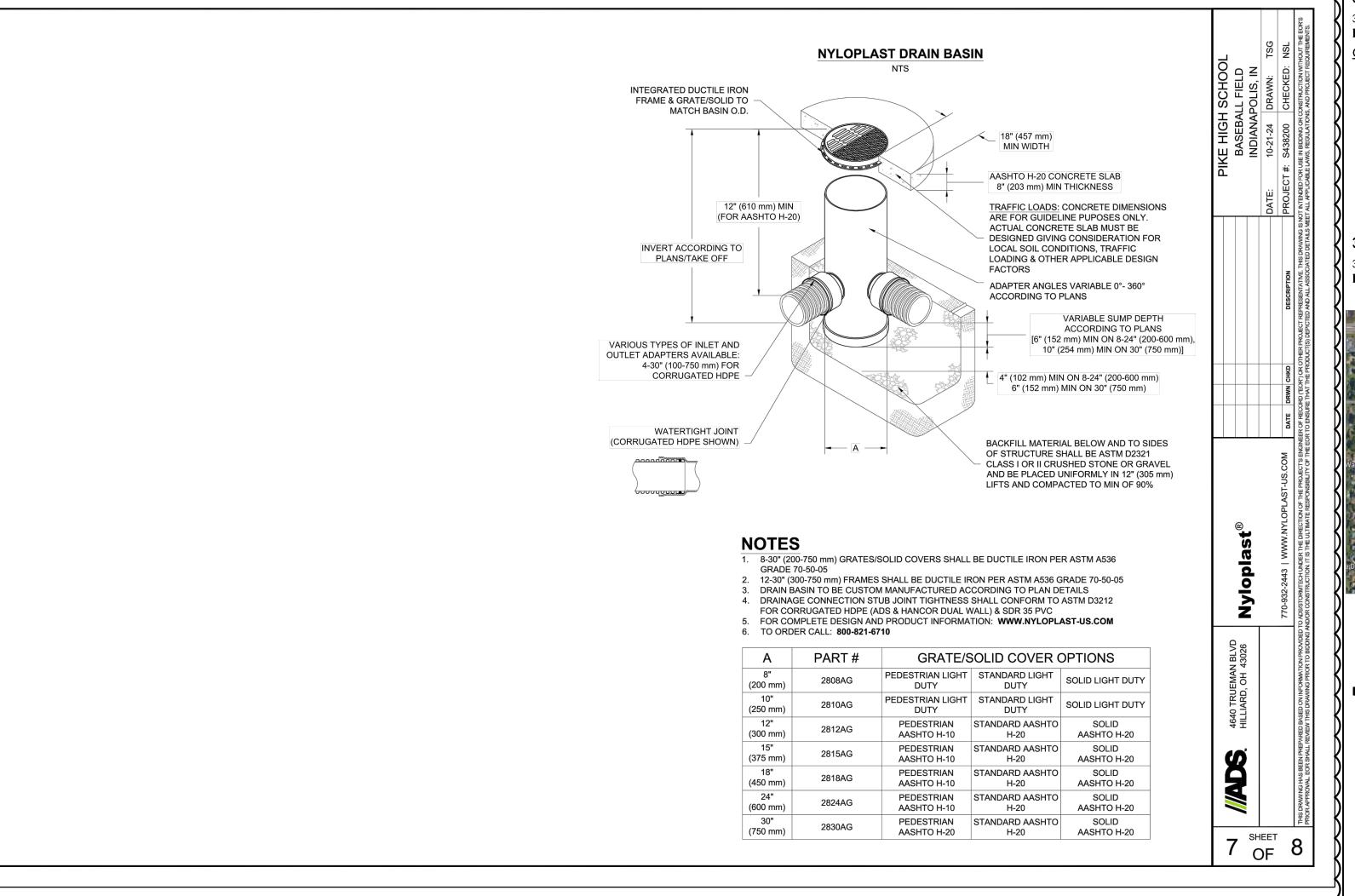
6" (150 mm) MIN

(SEE NOTE 3)

- 12" (300 mm) MIN







NOTE: SYSTEM UG2 WILL REQUIRE 8" OF STONE

ABOVE THE CHAMBERS.

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MSD PIKE TOWNSHIP PIKE HIGH SCHOOL **BASEBALL/SOFTBALL**

INDIANAPOLIS, IN. 46268



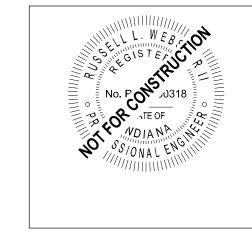
317-848-0966 WWW.FHAI.COM 350 E NEW YORK ST# 300, INDIANAPOLIS, IN 46204

CONSULTANT

317-334-1500 TLF-ENGINEERS.COM 3901 WEST 86TH STREET, ST# 200, INDIANAPOLIS, IN 46268







PROJECT MANAGER: RLW DRAWN BY: JHL PROJECT NUMBER: 2024-301 PROJECT ISSUE DATE: 10/03/2024

REV. NO.△	DESCRIPTION	DATE
	PLANS ISSUED FOR BID	10/03/2024
2	ADDENDUM 2	10/24/2024

SITE UTILITY **DETAILS**