

GENERAL DRAINAGE NOTES

- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
- REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
- THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
- MAINTAIN 10' HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN STORM/SANITARY SEWER SYSTEMS AND DOMESTIC FIRE LINE SERVICE. SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.
- CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. IN PAVED AREAS.
- ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
- FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO STORM SEWER INSTALLATION.
- ALL EXISTING MANHOLE AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
- EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- ALL STORM PIPE CONNECTIONS AT STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT.
- NEW PIPES AND STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS PRIOR TO FINAL TURNOVER TO THE OWNER.
- ALL HDPE PIPE SHALL BE DUAL WALLED, HANCOB HQ, A15 N-12 PIPE OR APPROVED EQUAL.
- ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF HDPE MATERIAL COMPATIBLE WITH STORAGE PIPES.
- PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
- VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.

DRAINAGE PLAN NOTES

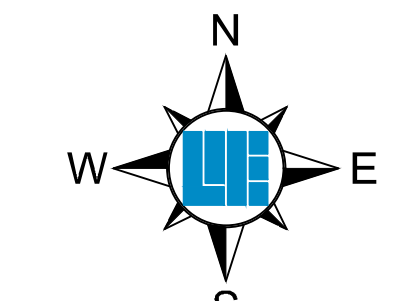
- CONTROL STRUCTURE.
- EACH OUTLOT TO PROVIDE THEIR OWN WATER QUALITY BMP STRUCTURE PRIOR TO CONNECTING INTO THE DEVELOPER PROVIDED STORM SEWER.
- DIRECTIONAL BORE THE NEW OUTFALL PIPE UNDERNEATH CHAD HITTLE DRIVE. PROVIDE A STEEL CASING TO PIPE 4" FROM EACH OF THE MANHOLE LOCATIONS. (15" RCP = 20" CASING)
- CORE DRILL MANHOLE FOR THE NEW INVERT SHOWN FOR THE POND OUTFALL CONNECTION.
- EXISTING DRAINAGE FLUMES TO REMAIN. FLUMES TO DRAIN TO NEW BEEHIVE INLETS PROVIDED FOR USE.
- DIRECTIONAL BORE THE NEW STORM SEWER PIPE UNDERNEATH CHAD HITTLE COURT. PROVIDE A STEEL CASING TO PIPE 4" FROM EACH OF THE MANHOLE LOCATIONS. (30" RCP = 42" CASING)
- EMERGENCY SPILLWAY. REFER TO DETAIL ON SHEET C606.
- REROUTE CITY DRAINAGE PIPE UNDERGROUND FOR THE FUTURE PLACEMENT OF THE SIDEWALK.

DRAINAGE PLAN LEGEND

UTILITIES	PAVEMENT
<ul style="list-style-type: none"> ☐ CISTERN ☐ DRINKING FOUNTAIN ☐ FIRE DEPT HOOKUP ☐ FIRE HYDRANT ☐ POST INDICATOR VALVE ☐ CHILLED WATER MANHOLE ☐ WATER MANHOLE ☐ SPRINKLER CONTROL BOX ☐ SPRINKLER CONTROL VALVE ☐ SPRINKLER ☐ SPIGOT ☐ WELL HEAD ☐ WATER METER ☐ WATER VALVE ☐ GAS METER ☐ GAS VALVE ☐ ELECTRIC MANHOLE ☐ ELECTRIC OUTLET ☐ ELECTRIC METER ☐ ELECTRICAL RISER ☐ TRANSFORMER ☐ GUY ANCHOR ☐ ELECTRIC JUNCTION BOX ☐ GENERATOR ☐ UTILITY POLE ☐ UTILITY POLE W/ TRANSFORMER ☐ MONITORING WELL ☐ LIQUID PROPANE GAS TANK ☐ ORNAMENTAL LIGHT ☐ STREET LIGHT ☐ PARKING LOT LIGHT (1 HEAD) ☐ PARKING LOT LIGHT (2 HEAD) ☐ PARKING LOT LIGHT (3 HEAD) ☐ PARKING LOT LIGHT (4 HEAD) 	<ul style="list-style-type: none"> ☐ COMMUNICATIONS JUNCTION BOX ☐ COMMUNICATIONS MANHOLE ☐ COMMUNICATIONS PEDESTAL ☐ COMMUNICATIONS RISER ☐ TRAFFIC SIGNAL POLE ☐ TRAFFIC SIGNAL ☐ BEEHIVE INLET ☐ CURB INLET ☐ FLOOR DRAIN ☐ ROUND INLET ☐ SQUARE INLET ☐ STORM MANHOLE ☐ DOWN SPOUT ☐ SANITARY SEWER CLEANOUT ☐ LIFT STATION ☐ SANITARY SEWER MANHOLE ☐ SANITARY STUB MARKER ☐ SEPTIC TANK ☐ DISTRIBUTION BOX
OTHER	LINE TYPES
<ul style="list-style-type: none"> ☐ FLAG POLE ☐ SIGN ☐ POST ☐ GATE POST ☐ BOLLARD ☐ PARKING METER ☐ PARKING WHEEL STOP ☐ ACCESSIBLE SPACE ☐ EMERGENCY FLOOD ROUTE ☐ FLOW DIRECTION AND SLOPE 	<ul style="list-style-type: none"> — RIGHT OF WAY LINE — FENCE — GUARD RAIL — BOUNDARY LINE — FLOW LINE — INDEX CONTOUR — INTERMEDIATE CONTOUR — UNDERGROUND GAS — UNDERGROUND WATER — AERIAL ELECTRIC — UNDERGROUND ELECTRIC — UNDERGROUND COMMUNICATIONS — AERIAL COMMUNICATIONS — UNDERGROUND FIBER OPTIC — AERIAL FIBER OPTIC CABLE — OVERHEAD UTILITY — FORCE MAIN — SANITARY SEWER LATERAL — SANITARY SEWER MAIN — ROOF DRAIN — SUB SURFACE DRAIN — STORM SEWER MAIN

ABBREVIATIONS

- ROW RIGHT OF WAY
- ESMT EASEMENT
- D.U.E. DRAINAGE AND UTILITY EASEMENT
- FFE FINISH FLOOR ELEVATION
- CMP CORRUGATED METAL PIPE
- PVC REINFORCED CONCRETE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- VCP VITRIFIED CLAY PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- DIP DUCTILE IRON PIPE
- SSD SUB SURFACE DRAIN PIPE
- STM STORM
- SAN SANITARY
- STR STRUCTURE
- CO CLEANOUT



10505 N. College Avenue
Indianapolis, Indiana 46280
w@wehe.net
317 846 - 6611
800 1 452 - 6408
317 843 - 0546 fax
ALLAN R. WEIHE, P.E., L.S., FOUNDER

WEIHE ENGINEERS
Land Surveying/Civil Engineering
Landscape Architecture
Build with confidence.

REVISIONS AND ISSUES	DATE	BY
ISSUED FOR TAC SUBMITTAL	03/31/2023	BJS
ISSUED FOR PERMITS	05/31/2023	BJS
ISSUED FOR CEG SANITARY MAIN REVISIONS	08/09/2023	BJS
ISSUED FOR CEG WATER REVISIONS	08/24/2023	BJS
ISSUED FOR CEG SANITARY MAIN APPROVAL	03/27/2024	BJS
ISSUED FOR WWP REVIEW AND APPROVAL	03/21/2024	BJS
ISSUED FOR FINAL CONSTRUCTION PLANS	04/24/2024	BJS

DATE: 04/24/2024

REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE 11300279
STEVEN SCOTT RUCKER P.E. 11300279

PREPARED FOR:
HAHN ODP
0 CHAD HITTLE COURT, WESTFIELD, IN 46074
DRAINAGE PLAN

SHEET NO. **C601**
PROJECT NO. **W22.0655**

LOCATION: I:\2022\W220655\Engineering\Design\Layout\W220655-C601.dwg
DATE/TIME: May 22, 2024 - 10:03am
PLOTTER: HP DesignJet 5000