Grading & Drainage Notes

The Contractor is cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the respective utility companies, and measurements taken in the field. This information is not to be relied upon as being exact or complete. The Contractor shall notify all utility companies & the State's underground locate service at least 2 (business) days before commencing excavation to request the utilities be located in the field.

If any existing structures/utilities to remain are damaged during construction, it shall be the Contractors responsibility to repair and/or replace the damaged structure/utility as necessary to return it to existing conditions or better.

The Contractor shall be responsible for notifying all property owners that will experience an interruption to their utilities caused by this project.

The Contractor shall adhere to all terms & conditions as outlined in the General N.P.D.E.S. Permit for stormwater discharge associated with construction activities.

All cut & fill slopes shall be 3:1 (max) or flatter unless otherwise noted.

All areas to remain unsurfaced shall receive 6" (min.) of topsoil upon final grading operations.

All storm pipe entering structures shall be grouted to assure a watertight connection.

All storm structures shall have a smooth uniform poured mortar invert from invert in to invert out. The inside of all structures where storm pipes connect shall be grouted smooth.

Storm pipe lengths provided are measured to center of structure and/or end of Flared-End Section.

Contractor shall assure positive drainage away from buildings for all lawn & paved areas.

All areas (lawn & pav't) shall be graded to drain. Contractor shall repair all bird baths.

Construction shall comply & be in conformance with all applicable governing codes and be constructed to same. Material specifications shall be in conformance with the State Department of Transportation's (DOT) standard specifications, latest edition.

All areas shall comply with the Americans with Disabilities Act Accesibility Guidelines.

All exposed areas to be used for subgrade preparations shall be scarified to a minimum depth of 8" and compacted to 100% standard proctor (ASTM D698) at a moisture content within 1% below and 3% above the optimum, or as outlined in the sub-surface exploration and Geotechnical report prepared for this project.

All fill materials used for subgrade preparations shall be placed in 8" loose lifts and compacted to 100% standard proctor (ASTM D698) at a moisture content within 1% below & 3% above the optimum, or as outlined in the sub-surface exploration and Geotechnical report prepared for this project.

Existing Legend

Sign	LP	Light Pole		Approximate Boundary Line
SS Stop Sign	UP	Utility Pole	X X X X	Fence Line
Gye	EM	Electric Meter		Edge of Concrete
HS Handicap Space	EB	Electric Box		Edge of Pavement
FP Flag Pole	WMH	Water Manhole		Edge of Gravel
PB Pipe Ballard	WV	Water Valve		Flow Line
GV Gas Valve	WM	Water Meter		Centerline
GM Gas Meter	FH	Fire Hydrant	OU	Overhead Utilities
SSMH Sanitary Manhole	AD	Area Drain	UC	Underground Communication
CO Sewer Clean Out	AD	Area Drain	UW	Underground Water
UC Ped Communication Box	MH	Storm Manhole	UE	Underground Electric
CMH Communication Manhole			RCP	Reinforced Concrete Pipe
			PVC	Polyvinyl Chloride Pipe
			BPP	Black Plastic Pipe
			IE	Invert Elevation
			LS	Landscaping

LEGEND

- 0000.00 — Existing Spot Elevation
- 000.00 T.C. / 000.00 Gut. — Proposed Top of Curb & Gutter Elevation
- 100.14 — Proposed Spot Elevation
- 99.75 / 99.67 — Proposed Top of Curb & Gutter Elevation
- 473.50 T.W. / 471.00 B.W. — Proposed Top of Wall & Base of Wall
- XXX — Existing Contour
- XXX — Proposed Contour
- Existing Storm Pipe
- Proposed Storm Sewer
- CI #XXX — Curb Inlet
- P-XXX — Storm Pipe
- AD #XXX — Area Drain
- FES XXX — Flared-End Section
- XX DE — Drainage Easement

HORZ: 1"=50'
50 0 50 100

INDIANA Know what's below. Call before you dig. 811
CALL TOLL FREE
1-800-382-5544
PER INDIANA STATE LAW IC8-1-26.
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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Written dimensions shown hereon shall take precedence over scaled dimensions. Figured dimensions are to be verified on the job site by the contractor. Cash Waggner & Associates, PC with any variations in dimensions or conditions from those shown on these plans or specifications must be reported to the Architect immediately. Commencement of Work constitutes verification and acceptance of all conditions.

Application of a material or equipment to Work installed by others constitutes acceptance of that Work and assumption of responsibility for satisfactory installation.

NATHAN R. WAGGNER — REGISTERED — No. 10201132 — STATE OF INDIANA — PROFESSIONAL ENGINEER

NO.	DATE	BY	DESCRIPTION
			REVISIONS
1	mm.dd.yy	INT	Description

CASH WAGGNER & ASSOCIATES, PC
CONSULTING ENGINEERING SURVEYING
WWW.CASHWAGGNER.COM
402 EAST 13 ST, SUITE 101
JASPER, IN 47546
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PROJECT NO.: 22-5345
DESIGNED BY: NRW
DRAWN BY: DJM
FILENAME: 5345Base
SCALE: As Shown

PROJECT: LEBANON ELEMENTARY SCHOOL NEW CONSTRUCTION
ADDRESS: JOHN-BART RD LEBANON, IN 46052
SHEET TITLE: GRADING & DRAINAGE PLAN

DATE: 05.04.23

C-102

OF: 8