ADDENDUM NO. 2

March 24, 2023

Whiteland High School Phase 1A
300 Main Street
Whiteland, IN 46184

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated March 24, 2023, by Lancer Associates Architecture. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 through ADD 2-1 and attached Lancer Associates Architecture Addendum No. 2 dated March 24, 2023 consisting of three (3) Addendum pages and Addendum 2 Drawings: 100, 200, 201, 202, 203, 204, 205, 206, 207, 300, 301, 302, 400, 500, 600, 601, 700, 701, 800, 801, 802, 900, and 901.

A. SPECIFICATION SECTION 00 20 00 – INFORMATION AVAILABLE TO BIDDERS

Delete the following.

The previously issued Site Logistics Plan can be deleted. The fencing, gates, and trailer location are now shown in the Architect Addendum 2 drawings.

LANCER ASSOCIATES ARCHITECTURE

ADDENDUM NO. TWO

PROJECT: Whiteland Community High School Phase 1a

PROJECT NUMBER: 22130

DATE OF ADDENDUM: March 24, 2023

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDDENDUM ACKNOWLEDGMENT SECTION OF THE BID FORM.

Drawings:

1. Title Sheet (sheet 100) – revised plan index to include new Site Dimension Plan sheet 302.

2. Overall Existing Site Layout (sheet 200) – revised to include temporary benchmark (TBM) information and show TBM locations.

3. Topographic Survey (sheets 201-206) – revised to include temporary benchmark (TBM) information and show TBM locations.

4. Topographic Survey (sheet 203) – revised to include buried electric line located on the north end of proposed parking area 'B'.

5. Demolition Plan (sheet 207) – revised to include buried electric line located on the north end of proposed parking area 'B'.

6. Overall Proposed Site Layout (sheet 300) – revised parking analysis table.

7. Site Dimension Plan (sheet 301) – revised parking analysis table. Added temporary construction fence and revised material requirements on A.D.A. accessible parking space detail.

8. Site Dimension Plan (sheet 302) – new sheet created to show permanent construction fence and field office location for Phase 1 to be installed at the end of Phase 1A construction.

9. Utility Plan (sheet 400) – revised to denote Class IV reinforced concrete pipe (RCP) for structures as required. Changed Str. No. 7 from curb inlet to storm manhole type 'C' (no change to casting type).

10. Grading Plan (sheet 500) – revised to include temporary benchmark (TBM) information.

11. Drainage Plan (sheet 600) – revised chamber inlet scour protection and inlet manifold elevations per manufacturer's review. Revised outlet structure details for Str. No. 23 to show 4" diameter orifices in weir plate.

12. Drainage Plan (sheet 601) – revised chamber inlet scour protection, updated number of SC-740 chambers (decreased from 590 to 587) and end caps (increased from 48 to 52), and updated manifold configurations per manufacturer's review. Revised outlet structure details for Str. No. 12 to show 4" diameter orifices in weir plate.

13. Storm Plan and Profile (sheet 700) – updated existing utility depths shown on profiles STM-A, STM-D, and STM-E based on utility potholing results provided by Fluid Waste Services. Revised alignment of STM-G (Str. No. 2 to Str. No. 6) to match updated storm layout.

14. Storm Plan and Profile (sheet 701) – updated existing utility depths shown on profile STM-L based on utility potholing results provided by Fluid Waste Services.

15. Overall Erosion Control Plan (sheet 800) – revised to show Phase 1 field office and port-o-let locations to be installed at the end of Phase 1A construction.

LANCER ASSOCIATES ARCHITECTURE

16. Erosion Control Plan (sheet 801) – revised to show NOI/SWPPP posting board and port-o-let locations. Add silt fence along the north and west construction limits.

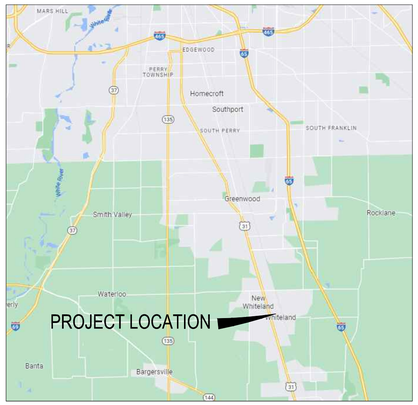
17. Miscellaneous Details (sheet 900) – removed word "handicap" from pavement message marking detail for A.D.A. symbol. Add Town of Whiteland standard detail for sanitary manhole connections.
18. Miscellaneous Details (sheet 901) – revised invert elevation of 18" manifold connecting to Str. No. 22.

Attachments: Sheets 100-901, MEP Addendum

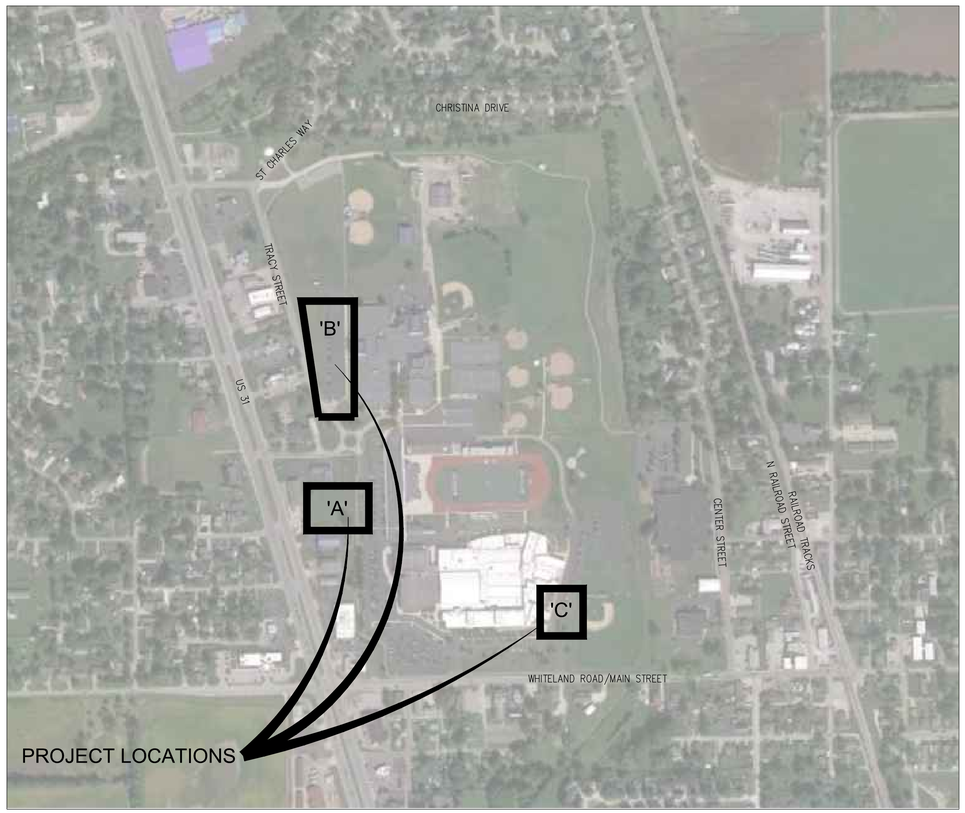
End of Addendum 2

FINAL CONSTRUCTION PLANS

WHITELAND COMMUNITY HIGH SCHOOL
PHASE 1A
300 E. MAIN STREET
WHITELAND, INDIANA



VICINITY MAP
NO SCALE



LOCATION MAP
NO SCALE

PLAN INDEX	
SHEET #	SUBJECT
100	TITLE SHEET
200	OVERALL EXISTING SITE LAYOUT
201–206	TOPOGRAPHICAL SURVEY
207	DEMOLITION PLAN
300	OVERALL PROPOSED SITE LAYOUT
2 301–302	SITE DIMENSION PLAN
400	UTILITY PLAN
500	GRADING PLAN
601–600	DRAINAGE PLAN
700–701	STORM PLAN AND PROFILE
800	OVERALL EROSION CONTROL PLAN
801	EROSION CONTROL PLAN
802	STORMWATER POLLUTION PREVENTION PLAN
900–901	MISCELLANEOUS DETAILS

OWNER

CLARK-PLEASANT COMMUNITY
SCHOOL CORPORATION
50 CENTER STREET
WHITELAND, IN 46184
PHONE: (317) 535-7579
CONTACT: BENJI BETTS
EMAIL: bbetts@cpcsc.k12.in.us

ENGINEER

CROSSROAD ENGINEERS, PC
115 N. 17TH AVENUE
BEECH GROVE, IN 46107
PHONE: (317) 780-1555
CONTACT: GREGORY J. ILKO
EMAIL: gilko@crossroadengineers.com

DIRECTORY PATH : R:\Active\Lancon+\Bebler\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 100 TITLE SHEET.dwg
DATE/USER : 3/23/2023 8:45 AM / Kfogg

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555
SHEET 100

TITLE SHEET

WHITELAND HIGH SCHOOL PHASE 1A

JOB No. . | DRAWN KLF | CHECKED TEN | APPR. GJI
DATE FEBRUARY 27, 2023 | DESIGNED DMS | DRAWN DMS | CHECKED TEN | APPR. GJI

GREGORY J. ILKO REGISTERED PROFESSIONAL ENGINEER NO. 10300059 STATE OF INDIANA

NO.	DATE	REVISIONS	BY	APPR.
1	03.02.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & OBBE REVIEW	DMS	GJI
3				
4				
5				
6				
7				
8				
9				

SHEET 100

Boundary Line Table		
Line #	Direction	Length
L1	S16°51'24"E	86.00'
L2	N87°08'36"E	8.81'
L3	N00°07'39"W	121.99'
L4	S88°58'56"W	99.96'
L5	N00°07'39"W	112.00'
L6	S88°58'16"W	13.76'
L7	N19°16'56"W	106.79'
L8	N42°42'49"E	60.96'
L9	N05°29'15"W	193.57'
L10	N20°48'54"W	30.97'
L11	N16°27'01"W	30.46'
L12	N40°12'44"E	49.65'
L13	N01°07'16"W	34.00'
L14	N67°14'17"W	74.01'
L15	N88°17'44"E	29.87'

EXISTING LEGEND

- POWERPOLE
- POWERPOLE W/RISER
- POWERPOLE W/LIGHT
- LIGHT POLE
- ELECTRIC METER
- ELECTRIC BOX
- YARD LIGHT
- GUIDE WIRE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- WATER VALVE
- FIRE HYDRANT
- WATER MANHOLE
- WATER METER
- GAS VALVE
- GAS METER
- CABLE TV RISER
- FIBER OPTIC BOX
- CLEANOUT
- SIGN
- STORM ROUND INLET
- STORM CURB INLET
- RIGHT-OF-WAY MARKER
- TREE, BUSH & STUMP
- TEMP. BENCHMARK
- CONTOURS
- PROPERTY LINE
- SECTION LINE
- RIGHT-OF-WAY
- EASEMENT
- ADJOINER LINE
- PAVEMENT LINE
- FIELD LINE
- PRIVACY FENCE
- CHAINLINK FENCE
- SPLIT RAIL FENCE
- DITCH
- FIBER OPTIC LINE
- GAS LINE
- TELEPHONE LINE
- WATER LINE
- CABLE TV LINE
- ELECTRIC LINE
- OVERHEAD UTILITY LINE
- TREE LINE
- SANITARY SEWER W/MANHOLE
- STORM SEWER W/ MANHOLE & END SECTION

(D) DEED (M) MEASURE (PS) PLAT SURVEY

ASPHALT, BUILDING, CONCRETE, GRAVEL, REMOVAL/DEMOLISH

PROPERTY BOUNDARY SHOWN IS PRELIMINARY PENDING COMPLETION OF THE ALTA/NSPS LAND TITLE SURVEY BEING PREPARED BY G.W. CHARLES, L.S. WITH CROSSROAD ENGINEERS, P.C.

EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

NORTH

150 0 150 300

SCALE: 1" =150'

TOPOGRAPHICAL NOTES

1. CONTRACTOR SHALL DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
2. UTILITIES ARE GRAPHICAL REPRESENTATION PER SURVEY AND MAPPING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR SERVICE DIS-CONNECTIONS AND/OR RELOCATIONS.

FLOODPLAIN INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN THE UNSHADED PORTION OF ZONE 'X' (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), FLOODPLAIN ZONE 'X' (AREAS OF 0.2% ANNUAL CHANCE FLOOD), FLOODPLAIN ZONE 'AE' (AREA OF 1% ANNUAL CHANCE FLOOD WITH ESTABLISHED BASE FLOOD ELEVATIONS), AND FLOODWAY ZONE 'AE' AND IS IN A SPECIAL FLOOD HAZARD AREA AS PLOTTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL NO. 18081C0137D, WHICH BEARS AN EFFECTIVE DATE OF 08/02/2007.

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION – X 13
PID – KA0010
STATE/COUNTY – IN/MORGAN
USGS QUAD – MOORESVILLE EAST (1980)

VERT ORDER – FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN–JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT–OF–WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
NEW DESC– AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT–OF–WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.

ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP#"P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP#"P21D42" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US–31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US–31" ON E FACE OF BUILDING.
ELEV.=801.28

TBM #404
NE CORNER OF TOP CONC STEP CONNECTED TO LEAD WALK @ "239 E MAIN ST." LOCATED SE QUAD OF "E MAIN ST." & "TICHENOR LN."
ELEV.=799.80

TBM #405
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TBM #406
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ELEV.=800.89

INDIANA 811 Know what's below. Call before you dig.

UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SANITARY SEWER
TOWN OF WHITELAND
SANITATION DEPARTMENT
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557–2955
EMAIL: SEWERSUPT@WHITELANDIN.US
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CONTACT: MATT GILLOCK

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CONTACT: SHAUN YOUNG

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CONTACT: JONATHAN EASTHAM

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CONTACT: SHAUN YOUNG

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CONTACT: JONNY NORRIS

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24 N. MAIN STREET
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PHONE: (317) 422–5117
EMAIL: KKILLINGER@BARGERSVILLE.IN.GOV
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750 INTERNATIONAL DRIVE
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PHONE: (317) 738–7639
EMAIL: JEANS@JCREMC.COM
CONTACT: SCOTT JEAN

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BRIGHTSPEED
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FRANKLIN, IN 46131
PHONE: (980) 376–1445
EMAIL: JAMES.W.ROLLEY@BRIGHTSPEED.COM
CONTACT: JAMES ROLLEY

EVERSTREAM
342 MASSACHUSETTS AVENUE
INDIANAPOLIS, IN 46204
PHONE: (317) 213–3137
EMAIL: MPUGH@EVERSTREAM.NET
CONTACT: MARK PUGH

COMCAST
1600 W. VERNAL PIKE
BLOOMINGTON, IN 47404
PHONE: (812) 360–3090
EMAIL: STEVE_MCARTOR@COMCAST.COM
CONTACT: STEVE MCARTOR

METRONET
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
PHONE: (812) 253–2196
EMAIL: MARK.DECKARD@METRONETINC.COM
CONTACT: MARK DECKARD

NOTE: The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in–service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

DIRECTORY PATH : R:\Active\Larson+Bashe\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 200 OVERALL TOPOGRAPHICAL SURVEY.dwg
DATE/USER : 3/23/2023 3:33 PM / KTopp

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

OVERALL EXISTING SITE LAYOUT
WHITELAND HIGH SCHOOL PHASE 1A

JOB No. . | DRAWN KLF | CHECKED TEN | APPR. GJI
DATE FEBRUARY 27, 2023 | DESIGNED DMS | APPR.

SHEET 200

REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

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1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
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50 0 50 100

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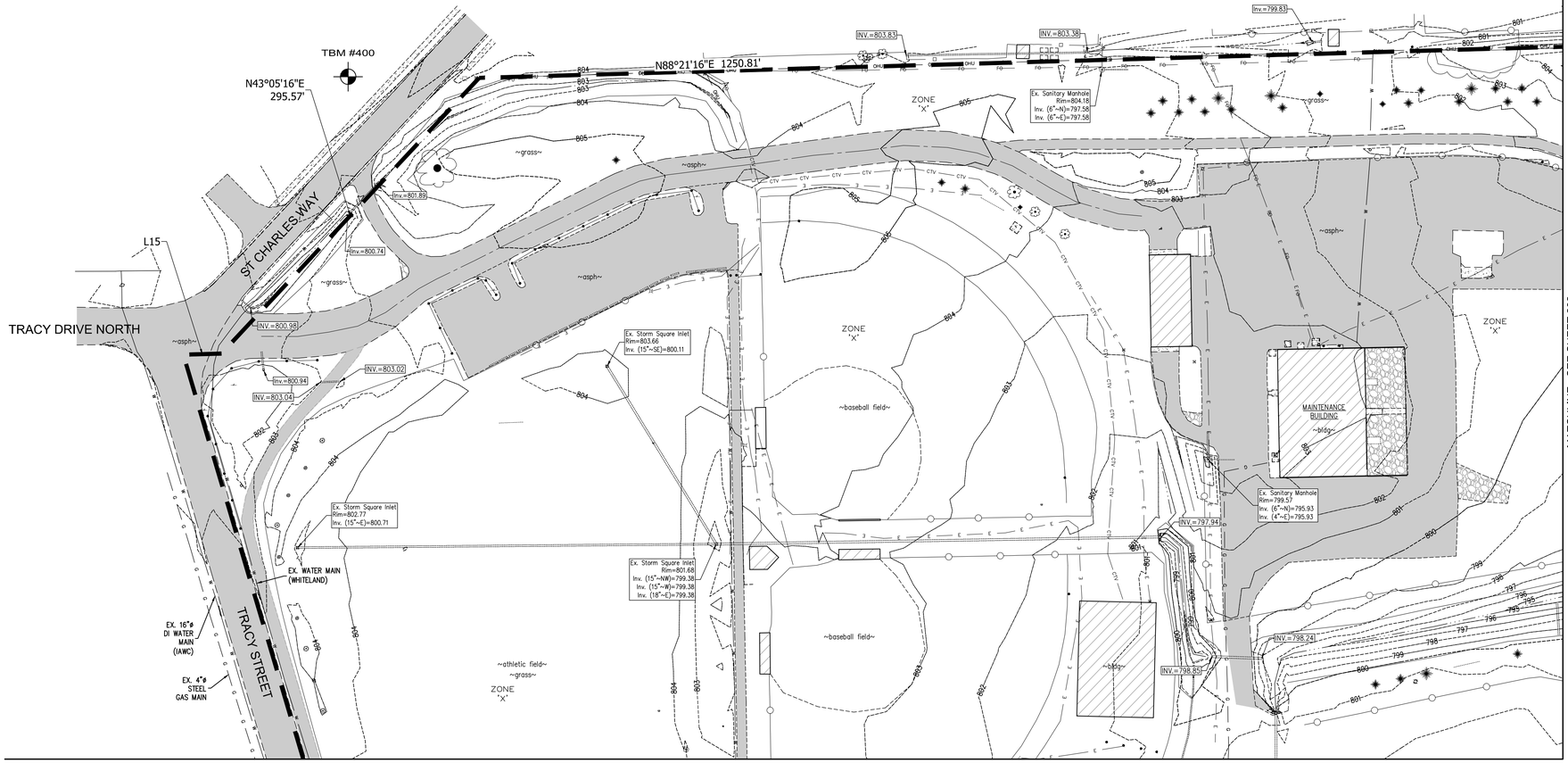

MATCHLINE - SEE SHEET 202

MATCHLINE - SEE SHEET 203

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UTILITIES

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SANITARY SEWER
TOWN OF WHITELAND
SANITATION DEPARTMENT
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557–2955
EMAIL: SEWERSUPT@WHITELANDIN.US
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CONTACT: KEVIN KILLINGER

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BRIGHTSPEED
50 N. JACKSON STREET
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CONTACT: STEVE MCARTOR

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3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
PHONE: (812) 253–2196
EMAIL: MARK.DECKARD@METRONETINC.COM
CONTACT: MARK DECKARD

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TOPOGRAPHICAL NOTES

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3. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR SERVICE DIS–CONNECTIONS AND/OR RELOCATIONS.

FLOODPLAIN INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN THE UNSHADED PORTION OF ZONE 'X' (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), FLOODPLAIN ZONE 'X' (AREAS OF 0.2% ANNUAL CHANCE FLOOD), FLOODPLAIN ZONE 'AE' (AREA OF 1% ANNUAL CHANCE FLOOD WITH ESTABLISHED BASE FLOOD ELEVATIONS), AND FLOODWAY ZONE 'AE' AND IS IN A SPECIAL FLOOD HAZARD AREA AS PLOTTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL NO. 18081C0137D, WHICH BEARS AN EFFECTIVE DATE OF 08/02/2007.

EXISTING LEGEND

POWERPOLE	CONTOURS
POWERPOLE W/RISER	PROPERTY LINE
POWERPOLE W/LIGHT	SECTION LINE
LIGHT POLE	RIGHT–OF–WAY
ELECTRIC METER	EASEMENT
ELECTRIC BOX	ADJOINER LINE
YARD LIGHT	PAVEMENT LINE
GUIDE WIRE	FIELD LINE
TELEPHONE MANHOLE	PRIVACY FENCE
TELEPHONE RISER	CHAINLINK FENCE
WATER VALVE	SPLIT RAIL FENCE
FIRE HYDRANT	DITCH
WATER MANHOLE	FIBER OPTIC LINE
WATER METER	GAS LINE
GAS VALVE	TELEPHONE LINE
GAS METER	WATER LINE
CABLE TV RISER	CABLE TV LINE
FIBER OPTIC BOX	ELECTRIC LINE
CLEANOUT	OVERHEAD UTILITY LINE
SIGN	TREE LINE
STORM ROUND INLET	SANITARY SEWER W/MANHOLE
STORM CURB INLET	STORM SEWER W/ MANHOLE & END SECTION
RIGHT–OF–WAY MARKER	
TREE, BUSH & STUMP	(D) DEED (M) MEASURE (PS) PLAT SURVEY
TEMP. BENCHMARK	ASPHALT, BUILDING, CONCRETE, GRAVEL, REMOVAL/DEMOLISH

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 201

TOPOGRAPHICAL SURVEY

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	GJI
DATE	FEBRUARY 27, 2023	DESIGNED	DMS				

DEREK M. SNYDER REGISTERED NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
2	03.24.23	ADDENDUM 2–REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & OBEC REVIEW	DMS	GJI
3				
4				
5				
6				
7				
8				
9				

SHEET 201

DIRECTORY PATH : R:\Active\Lance+Beckel\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 201 TOPOGRAPHICAL SURVEY.dwg
DATE/USER : 3/23/2023 9:01 AM / kfarg

EXISTING LEGEND

POWERPOLE	CONTOURS
POWERPOLE W/RISER	PROPERTY LINE
POWERPOLE W/LIGHT	SECTION LINE
LIGHT POLE	RIGHT-OF-WAY
ELECTRIC METER	EASEMENT
ELECTRIC BOX	ADJOINER LINE
YARD LIGHT	PAVEMENT LINE
GUIDE WIRE	FIELD LINE
TELEPHONE MANHOLE	PRIVACY FENCE
TELEPHONE RISER	CHAINLINK FENCE
WATER VALVE	SPLIT RAIL FENCE
FIRE HYDRANT	DITCH
WATER MANHOLE	FIBER OPTIC LINE
WATER METER	GAS LINE
GAS VALVE	TELEPHONE LINE
GAS METER	WATER LINE
CABLE TV RISER	CABLE TV LINE
FIBER OPTIC BOX	ELECTRIC LINE
CLEANOUT	OVERHEAD UTILITY LINE
SIGN	TREE LINE
STORM ROUND INLET	SANITARY SEWER W/MANHOLE
STORM CURB INLET	STORM SEWER W/ MANHOLE & END SECTION
RIGHT-OF-WAY MARKER	
TREE, BUSH & STUMP	
TEMP. BENCHMARK	

(D) DEED (M) MEASURE (PS) PLAT SURVEY

ASPHALT | BUILDING | CONCRETE | GRAVEL | REMOVAL/DEMOLISH

NORTH

50 0 50 100

SCALE: 1" = 50'

EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

PROPERTY BOUNDARY SHOWN IS PRELIMINARY PENDING COMPLETION OF THE ALTA/NSPS LAND TITLE SURVEY BEING PREPARED BY G.W. CHARLES, L.S. WITH CROSSROAD ENGINEERS, P.C.

Know what's below. Call before you dig. INDIANA 811

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION – X 13
PID – KA0010
STATE/COUNTY – IN/MORGAN
USGS QUAD – MOORESVILLE EAST (1980)

VERT ORDER – FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN–JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT–OF–WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
NEW DESC– AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT–OF–WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.

ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP# "P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP# "P21042" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US–31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US–31" ON E FACE OF BUILDING.
ELEV.=801.28

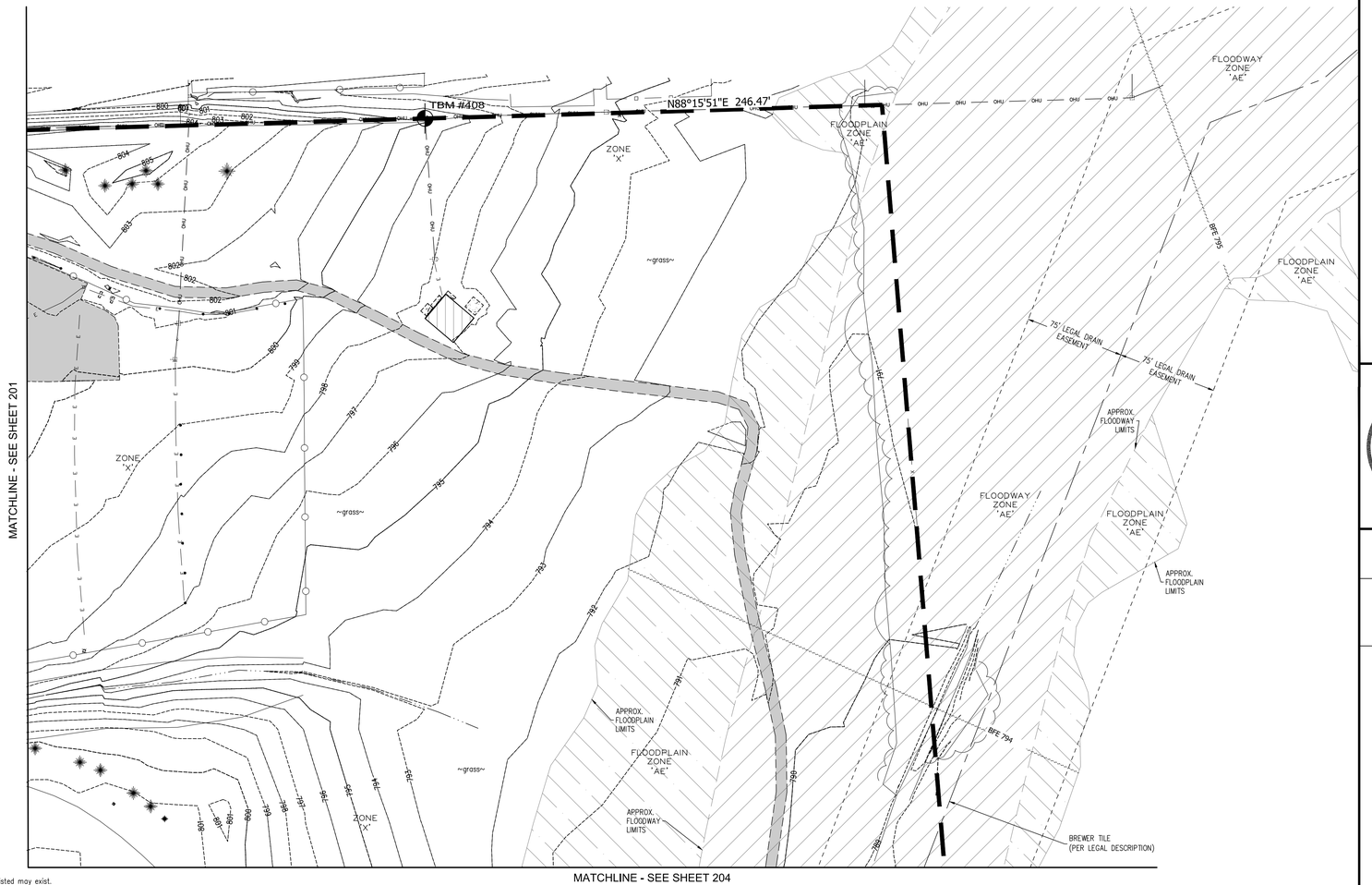
TBM #404
NE CORNER OF TOP CONC STEP CONNECTED TO LEAD WALK @ "239 E MAIN ST." LOCATED SE QUAD OF "E MAIN ST." & "TICHENOR LN."
ELEV.=799.80

TBM #405
RR SPIKE SET IN E FACE POWERPOLE. LOCATED ±5' S OF "E MAIN ST." & ±XX W OF DRIVE @ "399 E MAIN ST."
ELEV.=790.98

TBM #406
SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.=797.61

TBM #407
RR SPIKE SET IN S FACE OF PP# "P22C73". LOCATED ±5' E OF "CENTER ST." & ±150' N OF "CLEM ST."
ELEV.=800.07

TBM #408
RR SPIKE SET IN E FACE OF POWER POLE. LOCATED @ SW CORNER OF PROPERTY OF "329 CHRISTINA DR."
ELEV.=800.89



UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SANITARY SEWER
TOWN OF WHITELAND
SANITATION DEPARTMENT
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557–2955
EMAIL: SEWERSUPT@WHITELANDIN.US
CONTACT: JESSE JONES

TOWN OF NEW WHITELAND
SANITATION DEPARTMENT
540 TRACY ROAD, SUITE A
NEW WHITELAND, IN 46184
PHONE: (317) 941–3544
EMAIL: MATT.GILLOCK@NEWWHITELAND.IN.GOV
CONTACT: MATT GILLOCK

STORM SEWER
TOWN OF WHITELAND
DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557–1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

GAS
CENTERPOINT ENERGY
600 INDUSTRIAL DRIVE
FRANKLIN, IN 46131
PHONE: (765) 287–2119
EMAIL: JONATHAN.EASTHAM@CENTERPOINTENERGY.COM
CONTACT: JONATHAN EASTHAM

WATER
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DEPARTMENT OF PUBLIC WORKS
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WHITELAND, IN 46184
PHONE: (317) 557–1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

INDIANA AMERICAN WATER COMPANY
153 N. EMERSON AVENUE
GREENWOOD, IN 46143
PHONE: (317) 209–5837
EMAIL: JONNY.NORRIS@AMWATER.COM
CONTACT: JONNY NORRIS

ELECTRIC
TOWN OF BARGERSVILLE
24 N. MAIN STREET
BARGERSVILLE, IN 46106
PHONE: (317) 422–5117
EMAIL: KKILLINGER@BARGERSVILLE.IN.GOV
CONTACT: KEVIN KILLINGER

JOHNSON COUNTY REMC
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 738–7639
EMAIL: JEANS@JCREMC.COM
CONTACT: SCOTT JEAN

TELECOMMUNICATIONS
JOHNSON COUNTY REMC FIBER
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 797–9786
EMAIL: BENNETTE@JCREMC.COM
CONTACT: ERIC BENNETT

BRIGHTSPEED
50 N. JACKSON STREET
FRANKLIN, IN 46131
PHONE: (980) 376–1445
EMAIL: JAMES.W.ROLLEY@BRIGHTSPEED.COM
CONTACT: JAMES ROLLEY

EVERSTREAM
342 MASSACHUSETTS AVENUE
INDIANAPOLIS, IN 46204
PHONE: (317) 213–3137
EMAIL: MPUGH@EVERSTREAM.NET
CONTACT: MARK PUGH

COMCAST
1600 W. VERNAL PIKE
BLOOMINGTON, IN 47404
PHONE: (812) 360–3090
EMAIL: STEVE_MCARTOR@COMCAST.COM
CONTACT: STEVE MCARTOR

METRONET
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
PHONE: (812) 253–2196
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CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

TOPOGRAPHICAL SURVEY

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	SHEET	202
DATE	FEBRUARY 27, 2023	DESIGNED	DMS	APPR.	CJI		

REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
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2	03.24.23	ADDENDUM 2–REVISIONS PER TOWN OF WHITELAND, TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	CJI
3				
4				
5				
6				
7				
8				
9				

SHEET 202

DIRECTORY PATH : R:\Active\Surveyor Projects\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 202 TOPOGRAPHICAL SURVEY.dwg
DATE/USER : 3/23/2023 9:10 AM / KTopp

EXISTING LEGEND

- POWERPOLE
- POWERPOLE W/RISER
- POWERPOLE W/LIGHT
- LIGHT POLE
- ELECTRIC METER
- ELECTRIC BOX
- YARD LIGHT
- GUIDE WIRE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- WATER VALVE
- FIRE HYDRANT
- WATER MANHOLE
- WATER METER
- GAS VALVE
- GAS METER
- CABLE TV RISER
- FIBER OPTIC BOX
- CLEANOUT
- SIGN
- STORM ROUND INLET
- STORM CURB INLET
- RIGHT-OF-WAY MARKER
- TREE, BUSH & STUMP
- TEMP. BENCHMARK

- 800 CONTOURS
- PROPERTY LINE
- SECTION LINE
- RIGHT-OF-WAY
- EASEMENT
- ADJOINER LINE
- PAVEMENT LINE
- FIELD LINE
- PRIVACY FENCE
- CHAINLINK FENCE
- SPLIT RAIL FENCE
- DITCH
- FIBER OPTIC LINE
- GAS LINE
- TELEPHONE LINE
- WATER LINE
- CABLE TV LINE
- ELECTRIC LINE
- OVERHEAD UTILITY LINE
- TREE LINE
- SANITARY SEWER W/ MANHOLE & END SECTION
- STORM SEWER W/ MANHOLE & END SECTION

(D) DEED (M) MEASURE (PS) PLAT SURVEY

ASPHALT BUILDING CONCRETE

GRAVEL REMOVAL/DEMOLISH

50 0 50 100

SCALE: 1" = 50'

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BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION - X 13
PID - KA0010
STATE/COUNTY - IN/MORGAN
USGS QUAD - MOORESVILLE EAST (1980)

VERT ORDER - FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN-JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 698.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

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ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US-31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US-31" ON E FACE OF BUILDING.
ELEV.=801.28

TBM #404
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SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.="797.61

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TBM #408
RR SPIKE SET IN E FACE OF POWER POLE. LOCATED @ SW CORNER OF PROPERTY OF "329 CHRISTINA DR."
ELEV.=800.89

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TOWN OF WHITELAND
SANITATION DEPARTMENT
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557-2955
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SANITATION DEPARTMENT
540 TRACY ROAD, SUITE A
NEW WHITELAND, IN 46184
PHONE: (317) 941-3544
EMAIL: MATT.GILLOCK@NEWWHITELAND.IN.GOV
CONTACT: MATT GILLOCK

STORM SEWER
TOWN OF WHITELAND
DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
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PHONE: (317) 557-1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

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CENTERPOINT ENERGY
600 INDUSTRIAL DRIVE
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PHONE: (765) 287-2119
EMAIL: JONATHAN.EASTHAM@CENTERPOINTENERGY.COM
CONTACT: JONATHAN EASTHAM

WATER
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DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557-1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

INDIANA AMERICAN WATER COMPANY
153 N. EMERSON AVENUE
GREENWOOD, IN 46143
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EMAIL: JONNY.NORRIS@AMWATER.COM
CONTACT: JONNY NORRIS

ELECTRIC
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24 N. MAIN STREET
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PHONE: (317) 422-5117
EMAIL: KKILLINGER@BARGERSVILLE.IN.GOV
CONTACT: KEVIN KILLINGER

JOHNSON COUNTY REMC
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 738-7639
EMAIL: JEANS@JCREMC.COM
CONTACT: SCOTT JEAN

TELECOMMUNICATIONS
JOHNSON COUNTY REMC FIBER
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 797-9786
EMAIL: BENNETTE@JCREMC.COM
CONTACT: ERIC BENNETT

BRIGHTSPEED
50 N. JACKSON STREET
FRANKLIN, IN 46131
PHONE: (980) 376-1445
EMAIL: JAMES.W.ROLLEY@BRIGHTSPEED.COM
CONTACT: JAMES ROLLEY

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EVANSVILLE, IN 47715
PHONE: (812) 253-2196
EMAIL: MARK.DECKARD@METRONETINC.COM
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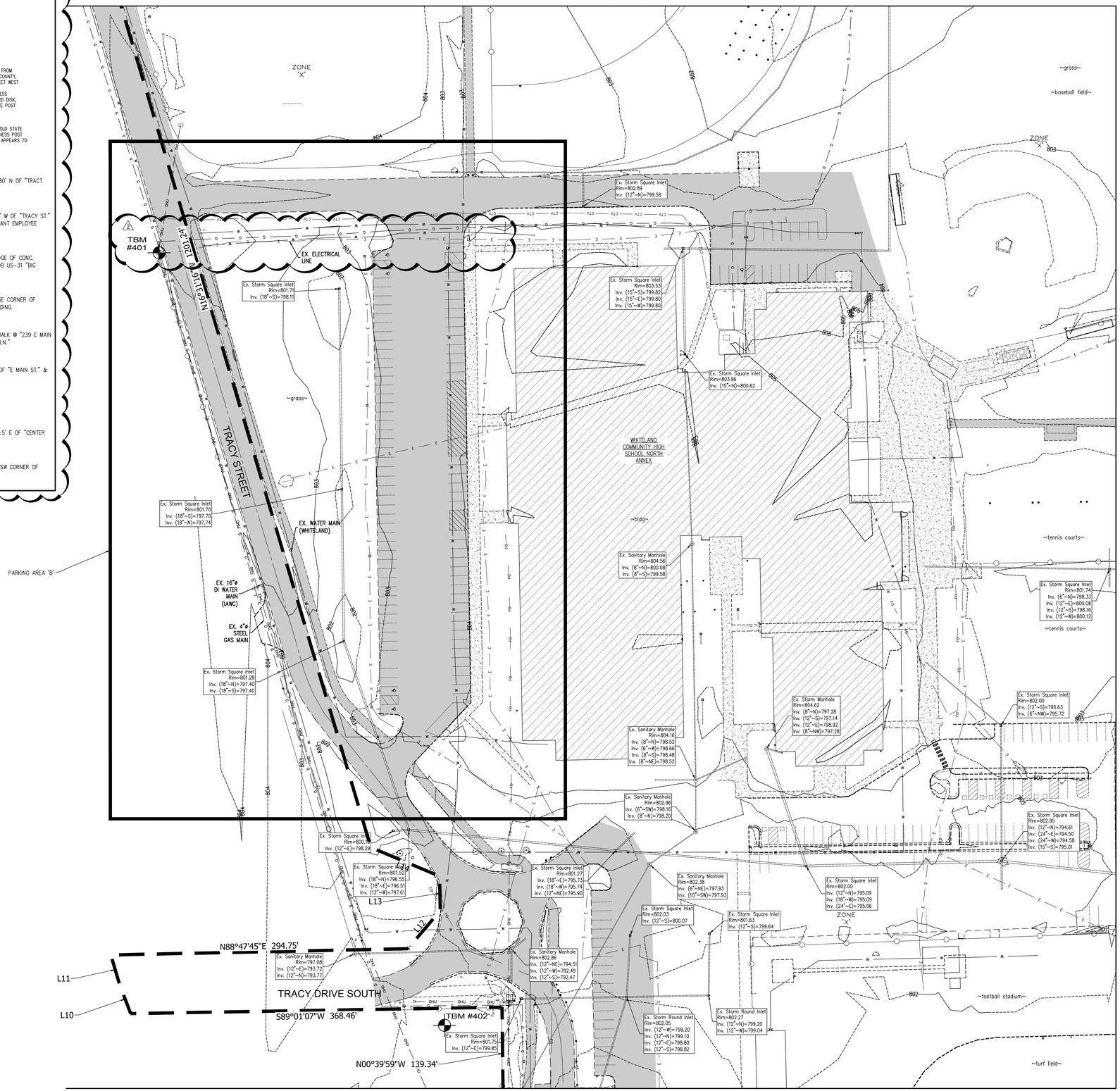
MATCHLINE - SEE SHEET 201



MATCHLINE - SEE SHEET 204

MATCHLINE - SEE SHEET 205

DIRECTORY PATH : R:\Active\Jones-Rhoda\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 203 TOPOGRAPHICAL SURVEY.dwg
DATE/USER : 3/23/2023 1:15 PM / KFigg

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

TOPOGRAPHICAL SURVEY

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	GJI
DATE	FEBRUARY 27, 2023	DESIGNED	DMS				

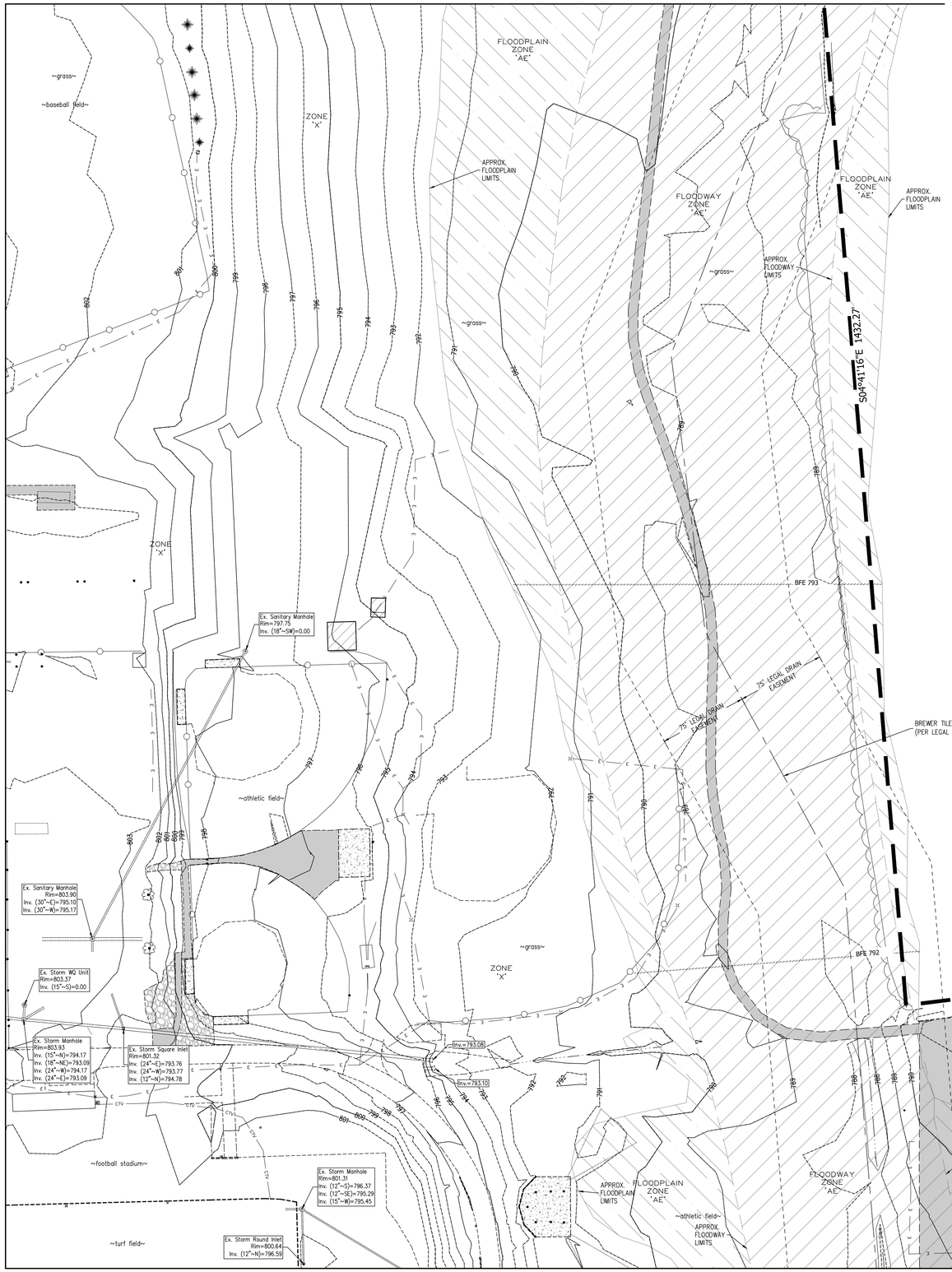
SHEET 203

REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI

SHEET 203

MATCHLINE - SEE SHEET 202



MATCHLINE - SEE SHEET 206

MATCHLINE - SEE SHEET 203

EXISTING LEGEND

- POWERPOLE
- POWERPOLE W/RISER
- POWERPOLE W/LIGHT
- LIGHT POLE
- ELECTRIC METER
- ELECTRIC BOX
- YARD LIGHT
- GUIDE WIRE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- WATER VALVE
- FIRE HYDRANT
- WATER MANHOLE
- WATER METER
- GAS VALVE
- GAS METER
- CABLE TV RISER
- FIBER OPTIC BOX
- CLEANOUT
- SIGN
- STORM ROUND INLET
- STORM CURB INLET
- RIGHT-OF-WAY MARKER
- TREE, BUSH & STUMP
- TEMP. BENCHMARK
- 800 CONTOURS
- PROPERTY LINE
- SECTION LINE
- RIGHT-OF-WAY
- EASEMENT
- ADJOINER LINE
- PAVEMENT LINE
- FIELD LINE
- PRIVACY FENCE
- CHAINLINK FENCE
- SPLIT RAIL FENCE
- DITCH
- FIBER OPTIC LINE
- GAS LINE
- TELEPHONE LINE
- WATER LINE
- CABLE TV LINE
- ELECTRIC LINE
- OVERHEAD UTILITY LINE
- TREE LINE
- SANITARY SEWER W/MANHOLE
- STORM SEWER W/ MANHOLE & END SECTION

(D) DEED (M) MEASURE (PS) PLAT SURVEY

ASPHALT, BUILDING, CONCRETE, GRAVEL, REMOVAL/DEMOLISH

NORTH

50 0 50 100

SCALE: 1" = 50'

UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SANITARY SEWER
TOWN OF WHITELAND
SANITATION DEPARTMENT
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557-2955
EMAIL: SEWERSUPT@WHITELANDIN.US
CONTACT: JESSE JONES

TOWN OF NEW WHITELAND
SANITATION DEPARTMENT
540 TRACY ROAD, SUITE A
NEW WHITELAND, IN 46184
PHONE: (317) 941-3544
EMAIL: MATT.GILLOCK@NEWWHITELAND.IN.GOV
CONTACT: MATT GILLOCK

STORM SEWER
TOWN OF WHITELAND
DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557-1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

GAS
CENTERPOINT ENERGY
600 INDUSTRIAL DRIVE
FRANKLIN, IN 46131
PHONE: (765) 287-2119
EMAIL: JONATHAN.EASTHAM@CENTERPOINTENERGY.COM
CONTACT: JONATHAN EASTHAM

WATER
TOWN OF WHITELAND
DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557-1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

INDIANA AMERICAN WATER COMPANY
153 N. EMERSON AVENUE
GREENWOOD, IN 46143
PHONE: (317) 209-5837
EMAIL: JONNY.NORRIS@AMWATER.COM
CONTACT: JONNY NORRIS

ELECTRIC
TOWN OF BARGERSVILLE
24 N. MAIN STREET
BARGERSVILLE, IN 46106
PHONE: (317) 422-5117
EMAIL: KKILLINGER@BARGERSVILLE.IN.GOV
CONTACT: KEVIN KILLINGER

JOHNSON COUNTY REMC
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 738-7639
EMAIL: JEANS@JCREMC.COM
CONTACT: SCOTT JEAN

TELECOMMUNICATIONS
JOHNSON COUNTY REMC FIBER
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 797-9786
EMAIL: BENNETTE@JCREMC.COM
CONTACT: ERIC BENNETT

BRIGHTSPEED
50 N. JACKSON STREET
FRANKLIN, IN 46131
PHONE: (980) 376-1445
EMAIL: JAMES.W.ROLLEY@BRIGHTSPEED.COM
CONTACT: JAMES ROLLEY

EVERSTREAM
342 MASSACHUSETTS AVENUE
INDIANAPOLIS, IN 46204
PHONE: (317) 213-3137
EMAIL: MPUGH@EVERSTREAM.NET
CONTACT: MARK PUGH

COMCAST
1600 W. VERNAL PIKE
BLOOMINGTON, IN 47404
PHONE: (812) 360-3090
EMAIL: STEVE_MCARTOR@COMCAST.COM
CONTACT: STEVE MCARTOR

METRONET
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
PHONE: (812) 253-2196
EMAIL: MARK.DECKARD@METRONETINC.COM
CONTACT: MARK DECKARD

NOTE: The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

TOPOGRAPHICAL NOTES

1. CONTRACTOR SHALL DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
2. UTILITIES ARE GRAPHICAL REPRESENTATION PER SURVEY AND MAPPING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR SERVICE DIS-CONNECTIONS AND/OR RELOCATIONS.

FLOODPLAIN INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN THE UNSHADED PORTION OF ZONE 'X' (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), FLOODPLAIN ZONE 'X' (AREAS OF 0.2% ANNUAL CHANCE FLOOD), FLOODPLAIN ZONE 'AE' (AREA OF 1% ANNUAL CHANCE FLOOD WITH ESTABLISHED BASE FLOOD ELEVATIONS), AND FLOODWAY ZONE 'AE' AND IS IN A SPECIAL FLOOD HAZARD AREA AS PLOTTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL NO. 18081C0137D, WHICH BEARS AN EFFECTIVE DATE OF 08/02/2007.

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION - X 13
PID - KA0010
STATE/COUNTY - IN/MORGAN
USGS QUAD - MOORESVILLE EAST (1980)

VERT ORDER - FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN-JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686,370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
NEW DESC- AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT-OF-WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.

ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP# "P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP# "P21042" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US-31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US-31" ON E FACE OF BUILDING.
ELEV.=801.28

TBM #404
NE CORNER OF TOP CONC STEP CONNECTED TO LEAD WALK @ "239 E MAIN ST." LOCATED SE QUAD OF "E MAIN ST." & "TICHENOR LN."
ELEV.=799.80

TBM #405
RR SPIKE SET IN E FACE POWERPOLE, LOCATED ±5' S OF "E MAIN ST." & ±XX W OF DRIVE @ "399 E MAIN ST."
ELEV.=790.98

TBM #406
SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.=797.61

TBM #407
RR SPIKE SET IN S FACE OF PP# "P22C73". LOCATED ±5' E OF "CENTER ST." & ±150' N OF "CLEM ST."
ELEV.=800.07

TBM #408
RR SPIKE SET IN E FACE OF POWER POLE. LOCATED @ SW CORNER OF PROPERTY OF "329 CHRISTINA DR."
ELEV.=800.89

PROPERTY BOUNDARY SHOWN IS PRELIMINARY PENDING COMPLETION OF THE ALTA/NSPS LAND TITLE SURVEY BEING PREPARED BY G.W. CHARLES, L.S. WITH CROSSROAD ENGINEERS, P.C.

EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

INDIANA 811 DIG DOWN Know what's below. Call before you dig.

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 204

TOPOGRAPHICAL SURVEY

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	GJI
DATE	FEBRUARY 27, 2023	DESIGNED	DMS	APPR.	GJI		

DEREK M. SNYDER REGISTERED NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

Derek M. Snyder

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI
3				
4				
5				
6				
7				
8				
9				

SHEET 204

DIRECTORY PATH : R:\Active\Jones+Riebel\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 20X TOPOGRAPHICAL SURVEY.dwg
DATE/USER : 3/23/2023 9:10 AM / KTopp

EXISTING LEGEND

- POWERPOLE
- POWERPOLE W/RISER
- POWERPOLE W/LIGHT
- LIGHT POLE
- ELECTRIC METER
- ELECTRIC BOX
- YARD LIGHT
- GUIDE WIRE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- WATER VALVE
- FIRE HYDRANT
- WATER MANHOLE
- WATER METER
- GAS VALVE
- GAS METER
- CABLE TV RISER
- FIBER OPTIC BOX
- CLEANOUT
- SIGN
- STORM ROUND INLET
- STORM CURB INLET
- RIGHT-OF-WAY MARKER
- TREE, BUSH & STUMP
- TEMP. BENCHMARK

- 800 CONTOURS
- PROPERTY LINE
- SECTION LINE
- RIGHT-OF-WAY
- EASEMENT
- ADJOINER LINE
- PAVEMENT LINE
- FIELD LINE
- PRIVACY FENCE
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- DITCH
- FIBER OPTIC LINE
- GAS LINE
- TELEPHONE LINE
- WATER LINE
- CABLE TV LINE
- ELECTRIC LINE
- OVERHEAD UTILITY LINE
- TREE LINE
- SANITARY SEWER
- W/MANHOLE
- STORM SEWER W/ MANHOLE & END SECTION

(D) DEED (M) MEASURE (PS) PLAT SURVEY

ASPHALT, BUILDING, CONCRETE, GRAVEL, REMOVAL/DEMOLISH

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION – X 13
PID – KA0010
STATE/COUNTY – IN/MORGAN
USGS QUAD – MOORESVILLE EAST (1980)

VERT ORDER – FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN–JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

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ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP#"P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP#"P21D42" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US–31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
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ELEV.=799.80

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TBM #406
SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.=797.61

TBM #407
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ELEV.=800.89

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NORTH

50 0 50 100

SCALE: 1" = 50'

TOPOGRAPHICAL NOTES

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BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN THE UNSHADED PORTION OF ZONE 'X' (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), FLOODPLAIN ZONE 'X' (AREAS OF 0.2% ANNUAL CHANCE FLOOD), FLOODPLAIN ZONE 'AE' (AREA OF 1% ANNUAL CHANCE FLOOD WITH ESTABLISHED BASE FLOOD ELEVATIONS), AND FLOODWAY ZONE 'AE' AND IS IN A SPECIAL FLOOD HAZARD AREA AS PLOTTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL NO. 18081C0137D, WHICH BEARS AN EFFECTIVE DATE OF 08/02/2007.

UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SANITARY SEWER
TOWN OF WHITELAND
SANITATION DEPARTMENT
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557–2955
EMAIL: SEWERSUPT@WHITELANDIN.US
CONTACT: JESSE JONES

TOWN OF NEW WHITELAND
SANITATION DEPARTMENT
540 TRACY ROAD, SUITE A
NEW WHITELAND, IN 46184
PHONE: (317) 941–3544
EMAIL: MATT.GILLOCK@NEWWHITELAND.IN.GOV
CONTACT: MATT GILLOCK

STORM SEWER
TOWN OF WHITELAND
DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557–1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

GAS
CENTERPOINT ENERGY
600 INDUSTRIAL DRIVE
FRANKLIN, IN 46131
PHONE: (765) 287–2119
EMAIL: JONATHAN.EASTHAM@CENTERPOINTENERGY.COM
CONTACT: JONATHAN EASTHAM

WATER
TOWN OF WHITELAND
DEPARTMENT OF PUBLIC WORKS
549 MAIN STREET
WHITELAND, IN 46184
PHONE: (317) 557–1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

INDIANA AMERICAN WATER COMPANY
153 N. EMERSON AVENUE
GREENWOOD, IN 46143
PHONE: (317) 209–5837
EMAIL: JONNY.NORRIS@AMWATER.COM
CONTACT: JONNY NORRIS

ELECTRIC
TOWN OF BARGERSVILLE
24 N. MAIN STREET
BARGERSVILLE, IN 46106
PHONE: (317) 422–5117
EMAIL: KKILLINGER@BARGERSVILLE.IN.GOV
CONTACT: KEVIN KILLINGER

JOHNSON COUNTY REMC
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 738–7639
EMAIL: JEANS@JCREMC.COM
CONTACT: SCOTT JEAN

TELECOMMUNICATIONS
JOHNSON COUNTY REMC FIBER
750 INTERNATIONAL DRIVE
FRANKLIN, IN 46131
PHONE: (317) 797–9786
EMAIL: BENNETT@JCREMC.COM
CONTACT: ERIC BENNETT

BRIGHTSPEED
50 N. JACKSON STREET
FRANKLIN, IN 46131
PHONE: (980) 376–1445
EMAIL: JAMES.WROLLEY@BRIGHTSPEED.COM
CONTACT: JAMES ROLLEY

EVERSTREAM
342 MASSACHUSETTS AVENUE
INDIANAPOLIS, IN 46204
PHONE: (317) 213–3137
EMAIL: MPUGH@EVERSTREAM.NET
CONTACT: MARK PUGH

COMCAST
1600 W. VERNAL PIKE
BLOOMINGTON, IN 47404
PHONE: (812) 360–3090
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CONTACT: STEVE MCARTOR

METRONET
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
PHONE: (812) 253–2196
EMAIL: MARK.DECKARD@METRONETINC.COM
CONTACT: MARK DECKARD

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INDIANA 811 Know what's below. Call before you dig.

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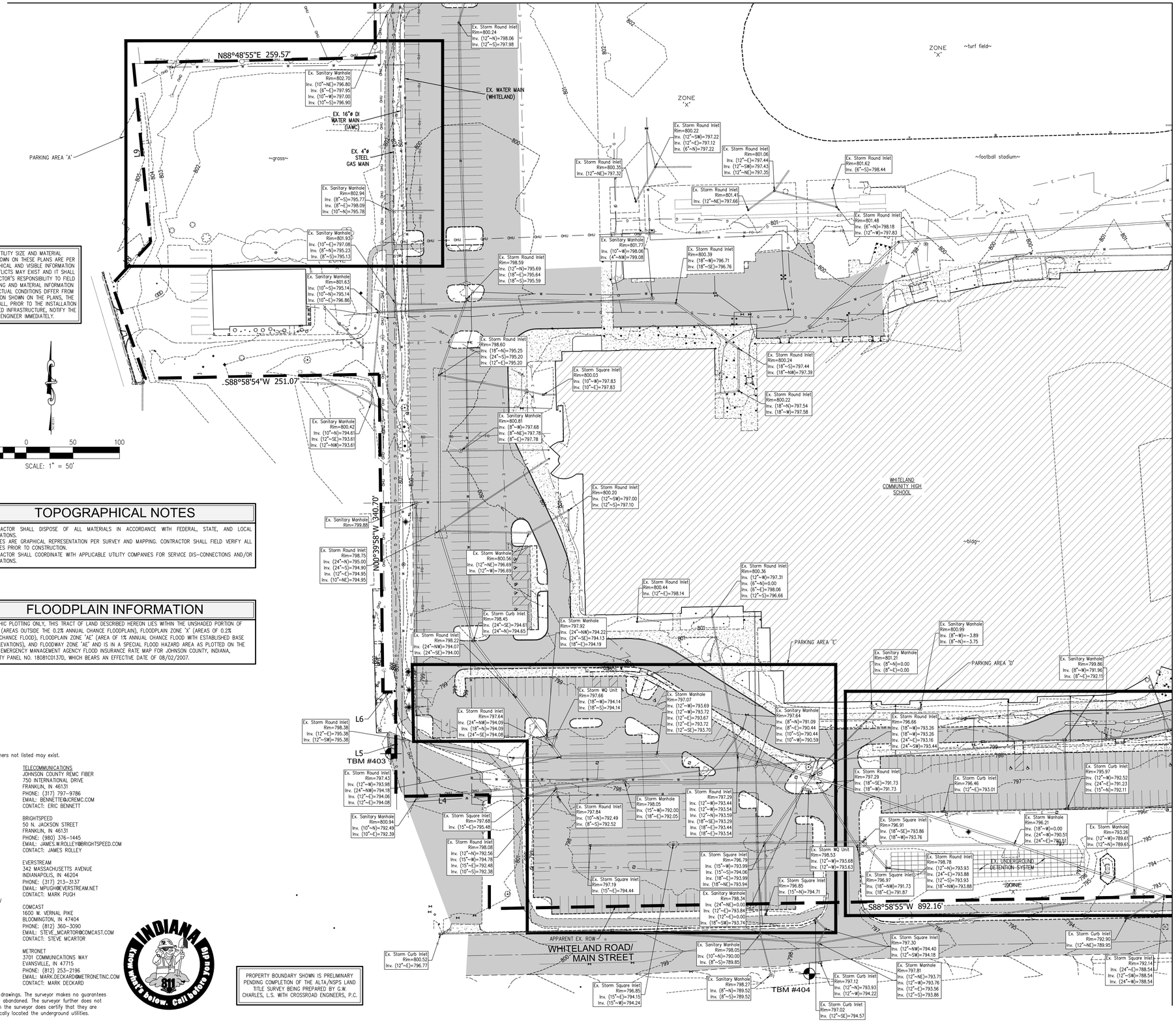

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, SUITE 200, BEECH GROVE, INDIANA 46107 (317) 780-1555

SHEET 205

TOPOGRAPHICAL SURVEY

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	SHEET	205
DATE	FEBRUARY 27, 2023	DESIGNED	DMS	APPR.	CJI		

REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23		DMS	CJI
2	03.24.23	ADDENDUM 2–REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADD STORMTECH REVIEW, & OBEE REVIEW	DMS	CJI
3		REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)		
4				
5				
6				
7				
8				
9				

DIRECTORY PATH: R:\Active\Lawson Ebeck\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME: 203 TOPOGRAPHICAL SURVEY.dwg
DATE/USER: 3/23/2023 9:17 AM / KTopp

MATCHLINE - SEE SHEET 204

MATCHLINE - SEE SHEET 205

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION – X 13
PID – KA0010
STATE/COUNTY – IN/MORGAN
USGS QUAD – MOORESVILLE EAST (1980)

VERT ORDER – FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN–JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT–OF–WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISC, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
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ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP# "P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP# "P21042" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US–31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US–31" ON E FACE OF BUILDING.
ELEV.=801.28

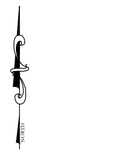
TBM #404
NE CORNER OF TOP CONC STEP CONNECTED TO LEAD WALK @ "239 E MAIN ST." LOCATED SE QUAD OF "E MAIN ST." & "TICHENOR LN."
ELEV.=799.80

TBM #405
RR SPIKE SET IN E FACE POWERPOLE. LOCATED ±5' S OF "E MAIN ST." & ±XX W OF DRIVE @ "399 E MAIN ST."
ELEV.=790.98

TBM #406
SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.=797.61

TBM #407
RR SPIKE SET IN S FACE OF PP# "P22C73". LOCATED ±5' E OF "CENTER ST." & ±150' N OF "CLEM ST."
ELEV.=800.07

TBM #408
RR SPIKE SET IN E FACE OF POWER POLE. LOCATED @ SW CORNER OF PROPERTY OF "329 CHRISTINA DR."
ELEV.=800.89



PROPERTY BOUNDARY SHOWN IS PRELIMINARY PENDING COMPLETION OF THE ALTA/NSPS LAND TITLE SURVEY BEING PREPARED BY G.W. CHARLES, L.S. WITH CROSSROAD ENGINEERS, P.C.

EXISTING LEGEND

POWERPOLE	CONTOURS
POWERPOLE W/RISER	PROPERTY LINE
POWERPOLE W/LIGHT	SECTION LINE
LIGHT POLE	RIGHT–OF–WAY
ELECTRIC METER	EASEMENT
ELECTRIC BOX	ADJOINER LINE
YARD LIGHT	PAVEMENT LINE
GUIDE WIRE	FIELD LINE
TELEPHONE MANHOLE	PRIVACY FENCE
TELEPHONE RISER	CHAINLINK FENCE
WATER VALVE	SPLIT RAIL FENCE
FIRE HYDRANT	DITCH
WATER MANHOLE	FIBER OPTIC LINE
WATER METER	GAS LINE
GAS VALVE	TELEPHONE LINE
GAS METER	WATER LINE
CABLE TV RISER	CABLE TV LINE
FIBER OPTIC BOX	ELECTRIC LINE
CLEANOUT	OVERHEAD UTILITY LINE
SIGN	TREE LINE
STORM ROUND INLET	SANITARY SEWER W/MANHOLE
STORM CURB INLET	STORM SEWER W/ MANHOLE & END SECTION
RIGHT–OF–WAY MARKER	
TREE, BUSH & STUMP	
TEMP. BENCHMARK	

(D) DEED (M) MEASURE (PS) PLAT SURVEY

ASPHALT, BUILDING, CONCRETE, GRAVEL, REMOVAL/DEMOLISH

UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SANITARY SEWER
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549 MAIN STREET
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CONTACT: JESSE JONES

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PHONE: (317) 941–3544
EMAIL: MATT.GILLOCK@NEWWHITELAND.IN.GOV
CONTACT: MATT GILLOCK

STORM SEWER
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DEPARTMENT OF PUBLIC WORKS
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CONTACT: SHAUN YOUNG

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CONTACT: KEVIN KILLINGER

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CONTACT: SCOTT JEAN

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CONTACT: JAMES ROLLEY

EVERSTREAM
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PHONE: (317) 213–3137
EMAIL: MPUGH@EVERSTREAM.NET
CONTACT: MARK PUGH

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1600 W. VERNAL PIKE
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PHONE: (812) 360–3090
EMAIL: STEVE_MCARTOR@COMCAST.COM
CONTACT: STEVE MCARTOR

METRONET
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
PHONE: (812) 253–2196
EMAIL: MARK.DECKARD@METRONETINC.COM
CONTACT: MARK DECKARD

NOTE: The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in–service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

TOPOGRAPHICAL NOTES

1. CONTRACTOR SHALL DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
2. UTILITIES ARE GRAPHICAL REPRESENTATION PER SURVEY AND MAPPING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR SERVICE DIS–CONNECTIONS AND/OR RELOCATIONS.

EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

FLOODPLAIN INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN THE UNSHADED PORTION OF ZONE "X" (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), FLOODPLAIN ZONE "X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD), FLOODPLAIN ZONE "AE" (AREA OF 1% ANNUAL CHANCE FLOOD WITH ESTABLISHED BASE FLOOD ELEVATIONS), AND FLOODWAY ZONE "AE" AND IS IN A SPECIAL FLOOD HAZARD AREA AS PLOTTED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR JOHNSON COUNTY, INDIANA, COMMUNITY PANEL NO. 18081C0137D, WHICH BEARS AN EFFECTIVE DATE OF 08/02/2007.

DIRECTORY PATH : R:\Active\Larson Becker\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 206 TOPOGRAPHICAL SURVEY.dwg
DATE/USER : 3/23/2023 9:33 AM / klfgg

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

TOPOGRAPHICAL SURVEY

WHITELAND HIGH SCHOOL PHASE 1A

JOB No. . | DRAWN KLF | CHECKED TEN | APPR. GJI
DATE FEBRUARY 27, 2023 | DESIGNED DMS

SHEET 206

REGISTERED ENGINEER DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN "B" DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
2	03.24.23	ADDENDUM 2–REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, KDS STORMTECH REVIEW, & OBBC REVIEW	DMS	GJI
3				
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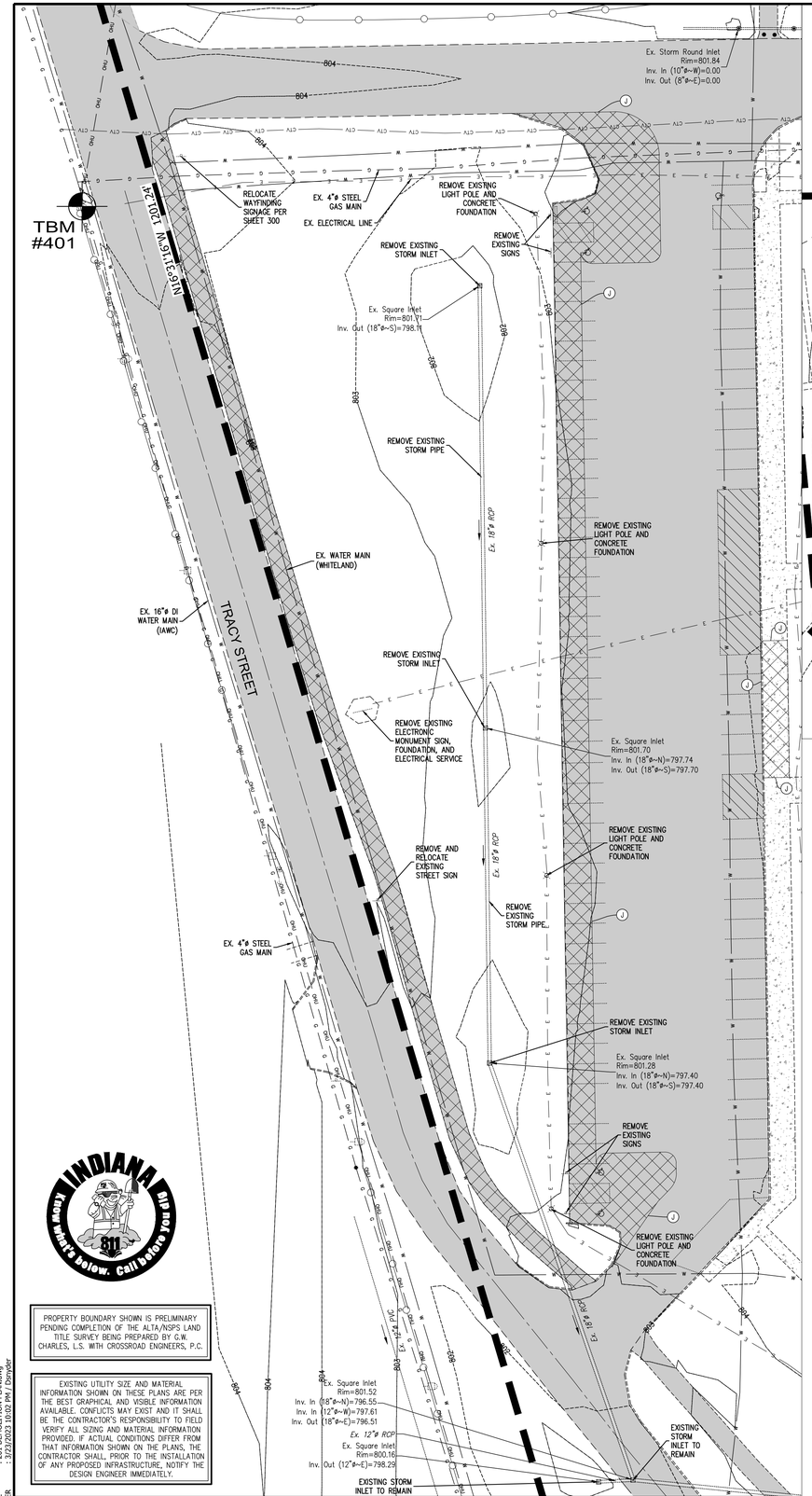
INDIANA 811 Know what's below. Call before you dig.

SHEET 206



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EXISTING LEGEND

POWERPOLE		800	CONTOURS
POWERPOLE W/RISER			PROPERTY LINE
POWERPOLE W/LIGHT			SECTION LINE
LIGHT POLE			RIGHT-OF-WAY
ELECTRIC METER	EM		EASEMENT
ELECTRIC BOX	EB		ADJOINER LINE
YARD LIGHT			PAVEMENT LINE
GUIDE WIRE			FIELD LINE
TELEPHONE MANHOLE	TM	□ □ □	PRIVACY FENCE
TELEPHONE RISER	TR	□	CHAINLINK FENCE
WATER VALVE	WV	/ / / /	SPLIT RAIL FENCE
FIRE HYDRANT	FH		DITCH
WATER MANHOLE	WM	FO FO FO FO	FIBER OPTIC LINE
WATER METER	WM	G G G G	GAS LINE
GAS VALVE	GV	T T T T	TELEPHONE LINE
GAS METER	GM	W W	WATER LINE
CABLE TV RISER	CTV	CTV CTV CTV CTV	CABLE TV LINE
FIBER OPTIC BOX	FO	E E E E	ELECTRIC LINE
CLEANOUT	CO	OHU OHU OHU	OVERHEAD UTILITY LINE
SIGN			TREE LINE
STORM ROUND INLET			SANITARY SEWER W/MANHOLE & END SECTION
STORM CURB INLET			STORM SEWER W/MANHOLE & END SECTION
RIGHT-OF-WAY MARKER			
TREE, BUSH & STUMP			
TEMP. BENCHMARK		(D) DEED (M) MEASURE (PS) PLAT SURVEY	
SAWCUT	J	ASPHALT BUILDING CONCRETE GRAVEL REMOVAL/DEMOLISH	

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION – X 13
PID – KA0010
STATE/COUNTY – IN/MORGAN
USGS QUAD – MOORESVILLE EAST (1980)

VERT ORDER – FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN–JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT-OF-WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
NEW DESC– AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT–OF–WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.

ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP#"P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP#"P21D42" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US–31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US–31" ON E FACE OF BUILDING.
ELEV.=801.28

TBM #404
NE CORNER OF TOP CONC STEP CONNECTED TO LEAD WALK @ "239 E MAIN ST." LOCATED SE QUAD OF "E MAIN ST." & "TICHENOR LN."
ELEV.=799.80

TBM #405
RR SPIKE SET IN E FACE POWERPOLE, LOCATED ±5' S OF "E MAIN ST." & ±XX W OF DRIVE @ "399 E MAIN ST."
ELEV.=790.98

TBM #406
SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.=797.61

TBM #407
RR SPIKE SET IN S FACE OF PP# "P22C73". LOCATED ±5' E OF "CENTER ST." & ±150' N OF "CLEM ST."
ELEV.=800.07

TBM #408
RR SPIKE SET IN E FACE OF POWER POLE. LOCATED @ SW CORNER OF PROPERTY OF "329 CHRISTINA DR."
ELEV.=800.89

UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SANITARY SEWER
TOWN OF WHITELAND
SANITATION DEPARTMENT
549 MAIN STREET
WHITELAND, IN 46184
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EMAIL: SEWERSUPT@WHITELANDIN.US
CONTACT: JESSE JONES

TOWN OF NEW WHITELAND
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153 N. EMERSON AVENUE
GREENWOOD, IN 46143
PHONE: (317) 209–5837
EMAIL: JONNY.NORRIS@AMWATER.COM
CONTACT: JONNY NORRIS

STORM SEWER
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DEPARTMENT OF PUBLIC WORKS
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PHONE: (317) 557–1033
EMAIL: STREETDEPT@WHITELANDIN.US
CONTACT: SHAUN YOUNG

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CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 207

DEMOLITION PLAN

WHITELAND HIGH SCHOOL PHASE 1A

JOB No. . | DRAWN KLF | CHECKED TEN | APPR. GJI
DATE FEBRUARY 27, 2023 | DESIGNED DMS | APPR. GJI

REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

Derek M. Snyder

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
2	03.24.23	ADDENDUM 2–REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADD STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI
3				
4				
5				
6				
7				
8				
9				

SHEET 207

DIRECTORY PATH : R:\Active\Lance-Reed\Whiteland High School\Design\CAD\Plans\PHASE 1A
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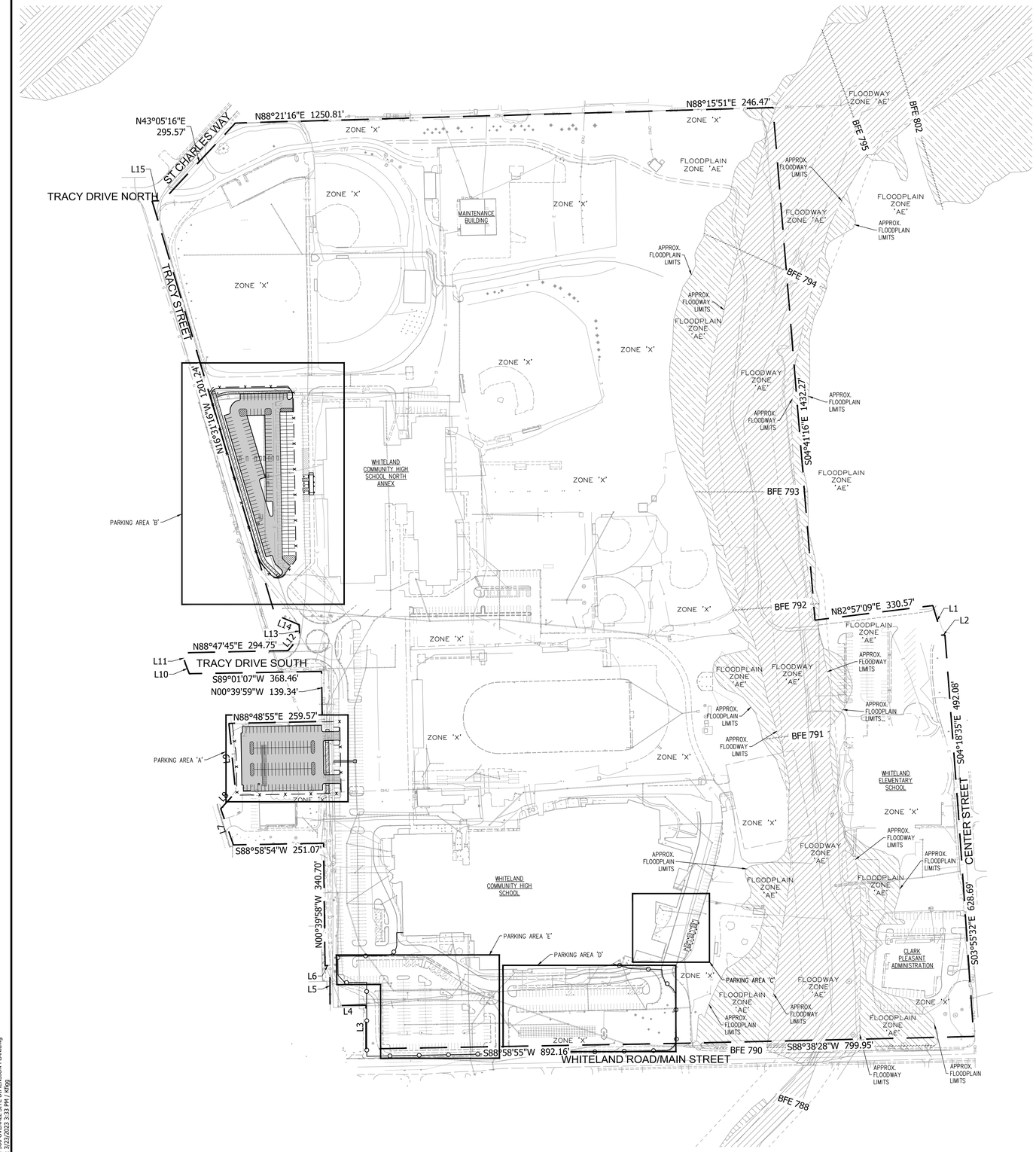
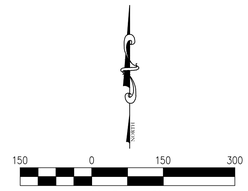
DATE/USER : 3/23/2023 10:03 PM / Dsnyder





Boundary Line Table		
Line #	Direction	Length
L1	S16°51'24"E	86.00'
L2	N87°08'36"E	8.81'
L3	N00°07'39"W	121.99'
L4	S88°58'56"W	99.96'
L5	N00°07'39"W	112.00'
L6	S88°58'16"W	13.76'
L7	N19°16'56"W	106.79'
L8	N42°42'49"E	60.96'
L9	N05°29'15"W	193.57'
L10	N20°48'54"W	30.97'
L11	N16°27'01"W	30.46'
L12	N40°12'44"E	49.65'
L13	N01°07'16"W	34.00'
L14	N67°14'17"W	74.01'
L15	N88°17'44"E	29.87'

SITE DIMENSION NOTES

1. ALL NEW SIGNAGE AND PARKING LOT LIGHTS SHALL MATCH WHITELAND COMMUNITY HIGH SCHOOLS' EXISTING SIGNAGE AND LIGHTING. CONTRACTOR SHALL COORDINATE WITH OWNER, LANDSCAPE ARCHITECT (CONTEXT DESIGN), AND MEP DESIGNER FOR LIGHT STYLES AND LAYOUT.
2. CONTRACTOR SHALL NOTIFY ENGINEER, IF PROOF ROLL OF SUBGRADE FAILS, TO DETERMINE IF LIME STABILIZATION OF SUBGRADE IS NECESSARY.
3. ALL RADII DIMENSIONS ARE TO THE FACE OF PROPOSED CURB.
4. SIGNAGE SHALL INCLUDE ALL NECESSARY HARDWARE AND FITTINGS, INCLUDING 10 FT. OF 11 GAUGE FLANGED CHANNEL SIGN POST.
5. REFER TO LANDSCAPE AND ARCHITECTURAL PLANS FOR ADDITIONAL SIGNAGE. VERIFY CONFLICTS WITH OWNER, ARCHITECT, AND LANDSCAPE ARCHITECT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
7. LANDSCAPING PLAN TO BE PROVIDED BY CONTEXT DESIGN. CONTRACTOR SHALL COORDINATE WITH OWNER AND CONTEXT FOR SPECIFICATIONS.
8. EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

△2

PARKING ANALYSIS - PHASE 1A						
PARKING AREA	EXISTING # OF SPACES		PROPOSED # OF SPACES		NET CHANGE IN # OF SPACES	
	A.D.A. ACCESSIBLE	STANDARD	A.D.A. ACCESSIBLE	STANDARD	A.D.A. ACCESSIBLE	STANDARD
"A"	0	21	0	119	0	+98
"B"	5	83	5	213	0	+130
"C"	0	16	6	7	+6	-9
"D"	5	71	5	71	0	0
"E"	7	198	7	198	0	0
TOTALS =	17	389	23	608	+6	+219

NOTE: NO CHANGES ARE PROPOSED FOR EXISTING PARKING AREAS "D" AND "E" IN PHASE 1A. SAID PARKING AREAS HAVE BEEN INCLUDED IN THE PARKING ANALYSIS FOR REFERENCE ONLY. SEE SITE DIMENSION PLAN (SHEET 301) FOR LAYOUTS OF PARKING AREAS "A", "B", AND "C". SEE SITE DIMENSION PLAN (SHEET 302) FOR LAYOUTS OF PARKING AREAS "D" AND "C".

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Know what's below. Call before you dig. INDIANA 811

DIRECTORY PATH : R:\Active\Lyons+Bethel\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 300_OVERALL SITE DIMENSION PLAN.dwg
DATE/USER : 3/23/2023 3:33 PM / KFlory

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

OVERALL PROPOSED SITE LAYOUT

WHITELAND HIGH SCHOOL PHASE 1A

JOB No. . | DRAWN KLF | CHECKED TEN | SHEET 300
DATE FEBRUARY 27, 2023 | DESIGNED DMS | APPR. GJI

DEREK M. SNYDER NO. 11200008 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

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3				
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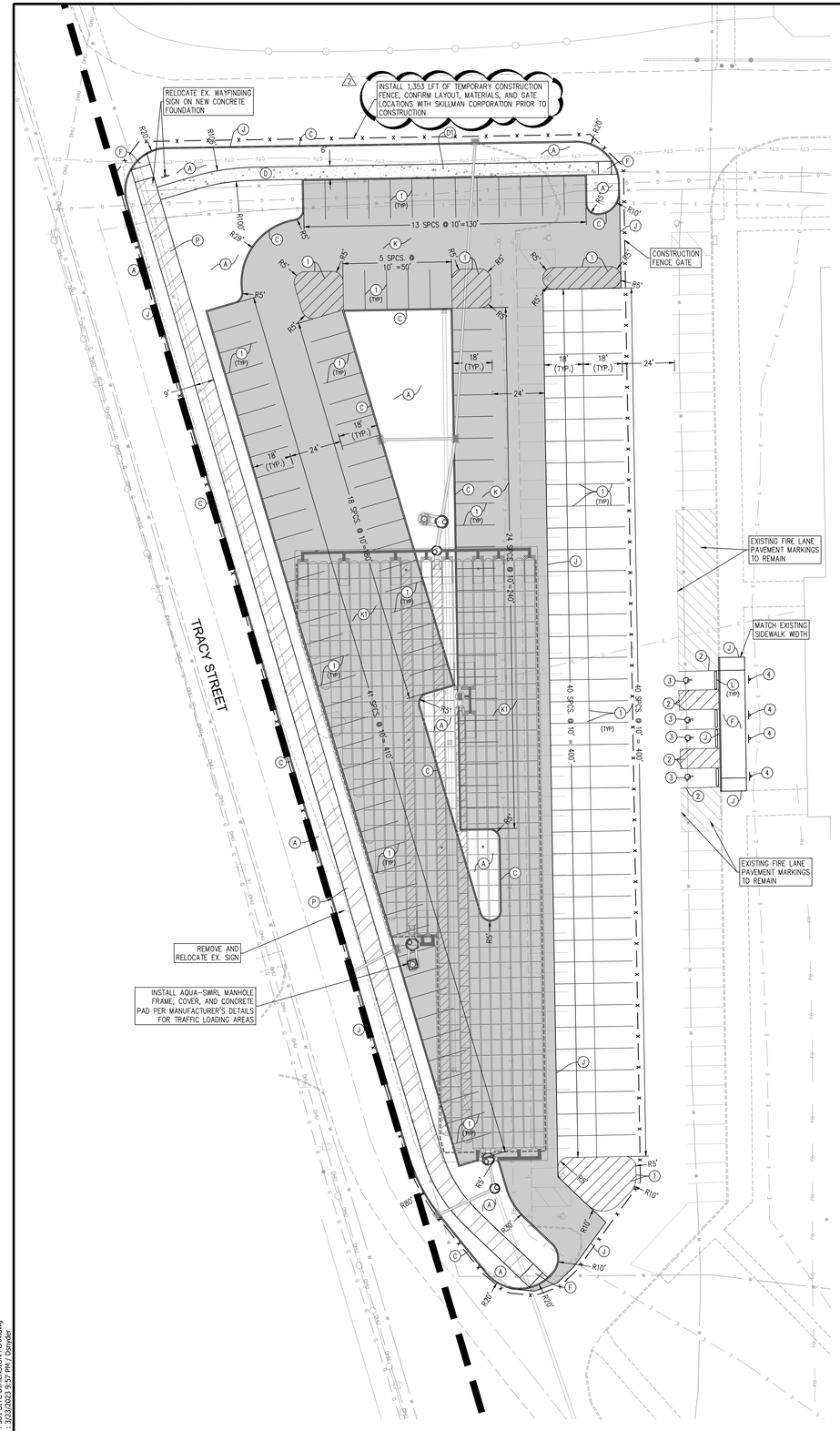
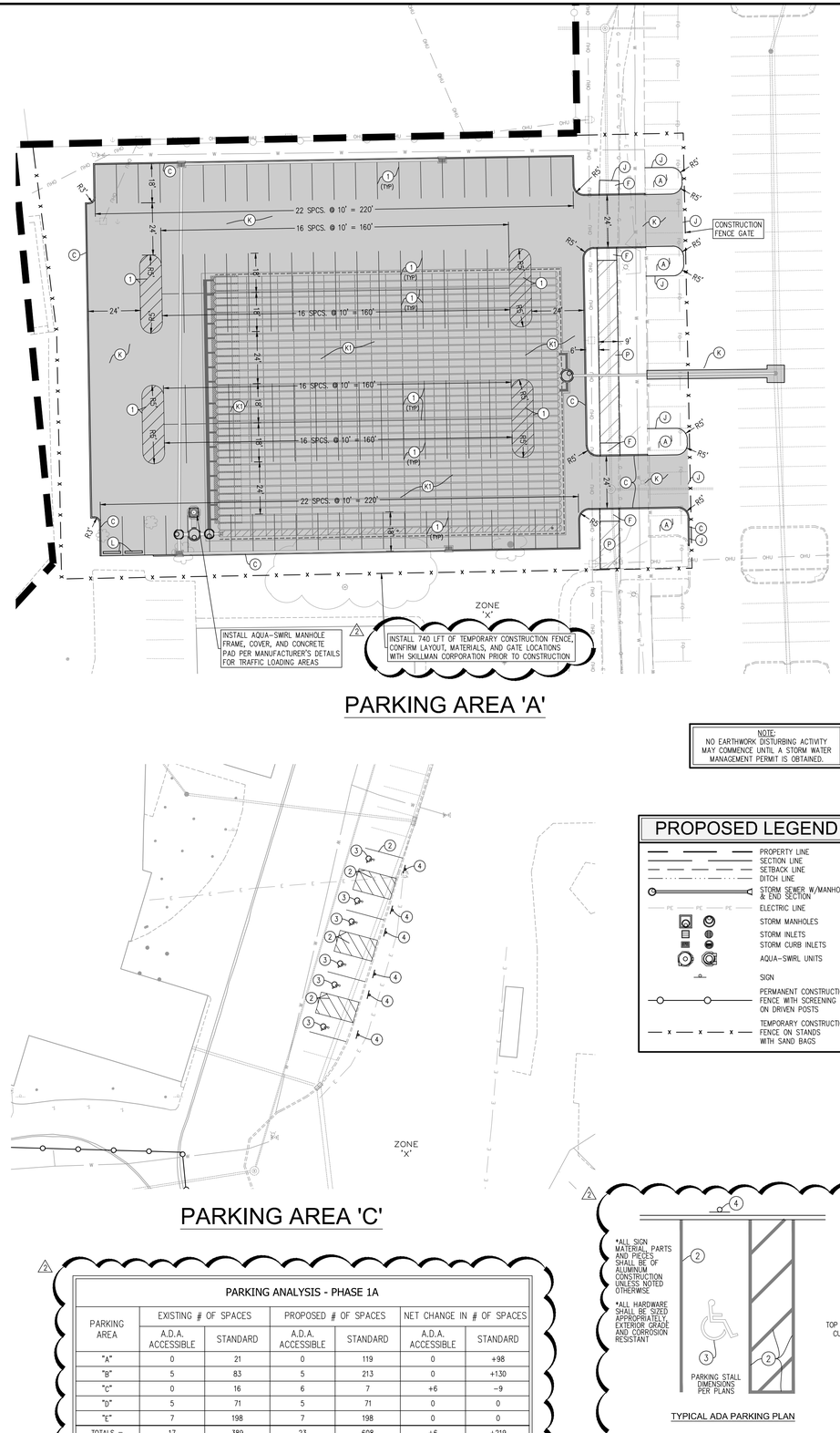
7				
8				
9				

SHEET 300

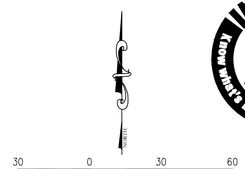


PARKING AREA 'B'



PARKING AREA 'A'

PARKING AREA 'C'



SITE DIMENSION LEGEND

- (A) MULCH SEEDING/LANDSCAPE AREAS
- (C) STRAIGHT CONCRETE CURB (SEE DETAIL-SHEET 900)
- (D) 4" CONCRETE SIDEWALK (SEE DETAIL-SHEET 900)
- (D1) MONOLITHIC CONCRETE CURB AND SIDEWALK (SEE DETAIL-SHEET 900)
- (F) A.D.A. RAMP (SEE DETAIL-SHEET 900)
- (J) SAWCUT
- (K) TYPICAL LIGHT DUTY ASPHALT SECTION
  1.5" HMA SURFACE 9.5mm, ON
  3" HMA INTERMEDIATE 19.0mm, ON
  6" COMPACTED AGGREGATE #53, ON
  COMPACTED SUBGRADE (SEE DETAIL-SHEET 900)
- (K1) TYPICAL LIGHT DUTY ASPHALT SECTION OVER DETENTION SECTION
  1.5" HMA SURFACE 9.5mm, ON
  3" HMA INTERMEDIATE 19.0mm, ON
  VARIABLE DEPTH COMPACTED AGGREGATE #53, ON GEOTEXTILE FABRIC OVER UNDERGROUND DETENTION
  (SEE DETAIL-SHEET 900)
- (L) CONCRETE WHEEL STOP (SEE DETAIL-SHEET 900)
- (P) TYPICAL ASPHALT PATH SECTION
  1" HMA SURFACE 9.5mm, ON
  2" HMA INTERMEDIATE 19.0mm, ON
  6" COMPACTED AGGREGATE #53, ON
  COMPACTED SUBGRADE (SEE DETAIL – SHEET 900)
- (1) LINE, PAINTED, SOLID WHITE, 4"
- (2) LINE, PAINTED, SOLID BLUE, 4"
- (3) A.D.A. SYMBOL, PAINTED, SOLID BLUE, 4"
- (4) SIGNAGE (SEE DETAIL-THIS SHEET)

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

PROPOSED LEGEND

- PROPERTY LINE
- SECTION LINE
- SETBACK LINE
- DITCH LINE
- STORM SEWER W/MANHOLE & END SECTION
- ELECTRIC LINE
- STORM MANHOLES
- STORM INLETS
- STORM CURB INLETS
- AQUA-SWIRL UNITS
- SIGN
- PERMANENT CONSTRUCTION FENCE WITH SCREENING ON DRIVEN POSTS
- TEMPORARY CONSTRUCTION FENCE ON STANDS WITH SAND BAGS

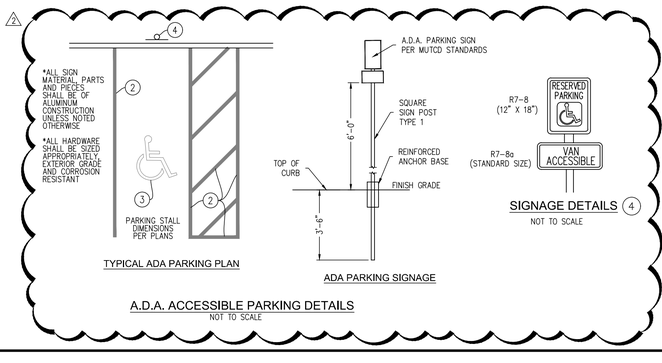
SITE DIMENSION NOTES

1. ALL NEW SIGNAGE AND PARKING LOT LIGHTS SHALL MATCH WHITELAND COMMUNITY HIGH SCHOOLS' EXISTING SIGNAGE AND LIGHTING. CONTRACTOR SHALL COORDINATE WITH OWNER, LANDSCAPE ARCHITECT (CONTEXT DESIGN), AND MEP DESIGNER FOR LIGHT STYLES AND LAYOUT.
2. CONTRACTOR SHALL NOTIFY ENGINEER, IF PROOF ROLL OF SUBGRADE FAILS, TO DETERMINE IF LIME STABILIZATION OF SUBGRADE IS NECESSARY.
3. ALL RADII DIMENSIONS ARE TO THE FACE OF PROPOSED CURB.
4. SIGNAGE SHALL INCLUDE ALL NECESSARY HARDWARE AND FITTINGS, INCLUDING 10 FT. OF 11 GAUGE FLANGED CHANNEL SIGN POST.
5. REFER TO LANDSCAPE AND ARCHITECTURAL PLANS FOR ADDITIONAL SIGNAGE. VERIFY CONFLICTS WITH OWNER, ARCHITECT, AND LANDSCAPE ARCHITECT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
7. LANDSCAPING PLAN TO BE PROVIDED BY CONTEXT DESIGN. CONTRACTOR SHALL COORDINATE WITH OWNER AND CONTEXT FOR SPECIFICATIONS.
8. EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

PARKING ANALYSIS - PHASE 1A

PARKING AREA	EXISTING # OF SPACES		PROPOSED # OF SPACES		NET CHANGE IN # OF SPACES	
	A.D.A. ACCESSIBLE	STANDARD	A.D.A. ACCESSIBLE	STANDARD	A.D.A. ACCESSIBLE	STANDARD
"A"	0	21	0	119	0	+98
"B"	5	83	5	213	0	+130
"C"	0	16	6	7	+6	−9
"D"	5	71	5	71	0	0
"E"	7	198	7	198	0	0
TOTALS =	17	389	23	608	+6	+219

NOTE: NO CHANGES ARE PROPOSED FOR EXISTING PARKING AREAS "D" AND "E" IN PHASE 1A. SAID PARKING AREAS HAVE BEEN INCLUDED IN THE PARKING ANALYSIS FOR REFERENCE ONLY. SEE SITE DIMENSION PLAN (SHEET 302) FOR LOCATIONS OF PARKING AREAS "D" AND "E".



A.D.A. ACCESSIBLE PARKING DETAILS
NOT TO SCALE

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

INDIANA 811 Know what's below. Call before you dig.

SITE DIMENSION PLAN

WHITELAND HIGH SCHOOL PHASE 1A

JOB No. . | DRAWN KLF | CHECKED TEN | APPR. GJI
DATE FEBRUARY 27, 2023 | DESIGNED DMS | APPR. GJI

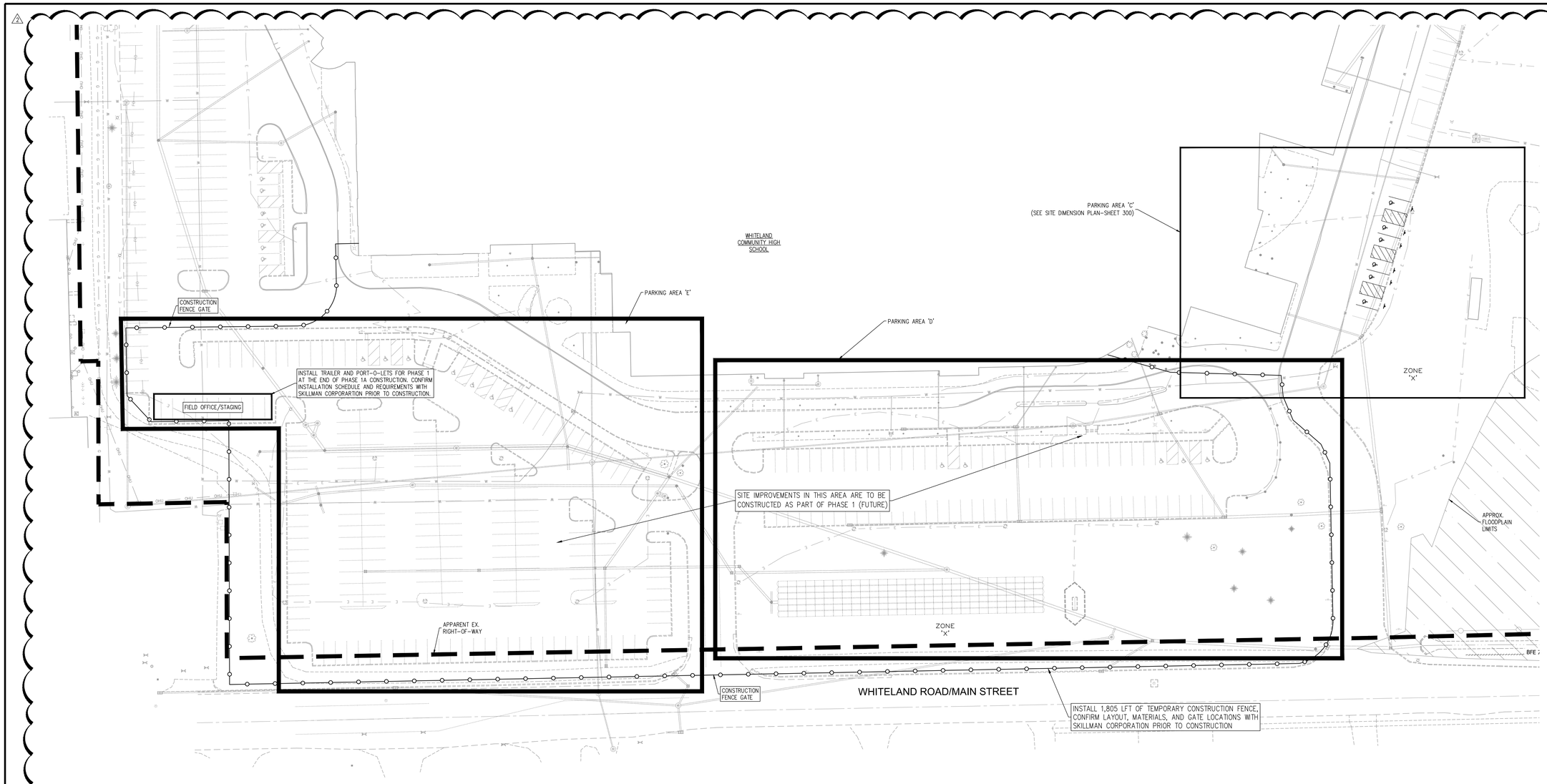
SHEET 301

REGISTERED ENGINEER DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI

SHEET 301

DIRECTORY PATH : R:\Active\Larson-Roehl\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 301 SITE DIMENSION PLAN.dwg
DATE/USER : 3/23/2023 9:57 PM / Dsnyder



PARKING AREAS 'D' & 'E'

PROPOSED LEGEND

- PROPERTY LINE
- SECTION LINE
- SETBACK LINE
- DITCH LINE
- STORM SEWER W/MANHOLE & END SECTION
- ELECTRIC LINE
- STORM MANHOLES
- STORM INLETS
- STORM CURB INLETS
- AQUA-SWIRL UNITS
- SIGN
- PERMANENT CONSTRUCTION FENCE WTH SCREENING ON DRIVEN POSTS
- TEMPORARY CONSTRUCTION FENCE ON STANDS WITH SAND BAGS

SITE DIMENSION NOTES

1. ALL NEW SIGNAGE AND PARKING LOT LIGHTS SHALL MATCH WHITELAND COMMUNITY HIGH SCHOOLS' EXISTING SIGNAGE AND LIGHTING. CONTRACTOR SHALL COORDINATE WITH OWNER, LANDSCAPE ARCHITECT (CONTEXT DESIGN), AND MEP DESIGNER FOR LIGHT STYLES AND LAYOUT.
2. CONTRACTOR SHALL NOTIFY ENGINEER, IF PROOF ROLL OF SUBGRADE FAILS, TO DETERMINE IF LIME STABILIZATION OF SUBGRADE IS NECESSARY.
3. ALL RADII DIMENSIONS ARE TO THE FACE OF PROPOSED CURB.
4. SIGNAGE SHALL INCLUDE ALL NECESSARY HARDWARE AND FITTINGS, INCLUDING 10 FT. OF 11 GAUGE FLANGED CHANNEL SIGN POST.
5. REFER TO LANDSCAPE AND ARCHITECTURAL PLANS FOR ADDITIONAL SIGNAGE. VERIFY CONFLICTS WITH OWNER, ARCHITECT, AND LANDSCAPE ARCHITECT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
7. LANDSCAPING PLAN TO BE PROVIDED BY CONTEXT DESIGN. CONTRACTOR SHALL COORDINATE WITH OWNER AND CONTEXT FOR SPECIFICATIONS.
8. EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

NORTH

40 0 40 80

SCALE: 1" = 40'

INDIANA 811 Dig You Know what's below. Call before

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

PARKING ANALYSIS - PHASE 1A

PARKING AREA	EXISTING # OF SPACES		PROPOSED # OF SPACES		NET CHANGE IN # OF SPACES	
	A.D.A. ACCESSIBLE	STANDARD	A.D.A. ACCESSIBLE	STANDARD	A.D.A. ACCESSIBLE	STANDARD
"A"	0	21	0	119	0	+98
"B"	5	83	5	213	0	+130
"C"	0	16	6	7	+6	-9
"D"	5	71	5	71	0	0
"E"	7	198	7	198	0	0
TOTALS =	17	389	23	608	+6	+219

NOTE: NO CHANGES ARE PROPOSED FOR EXISTING PARKING AREAS "D" AND "E" IN PHASE 1A. SAID PARKING AREAS HAVE BEEN INCLUDED IN THE PARKING ANALYSIS FOR REFERENCE ONLY.

DIRECTORY PATH : R:\Active\Lennar-Rieke\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 302 SITE DIMENSION PLAN.dwg
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CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 302

SITE DIMENSION PLAN

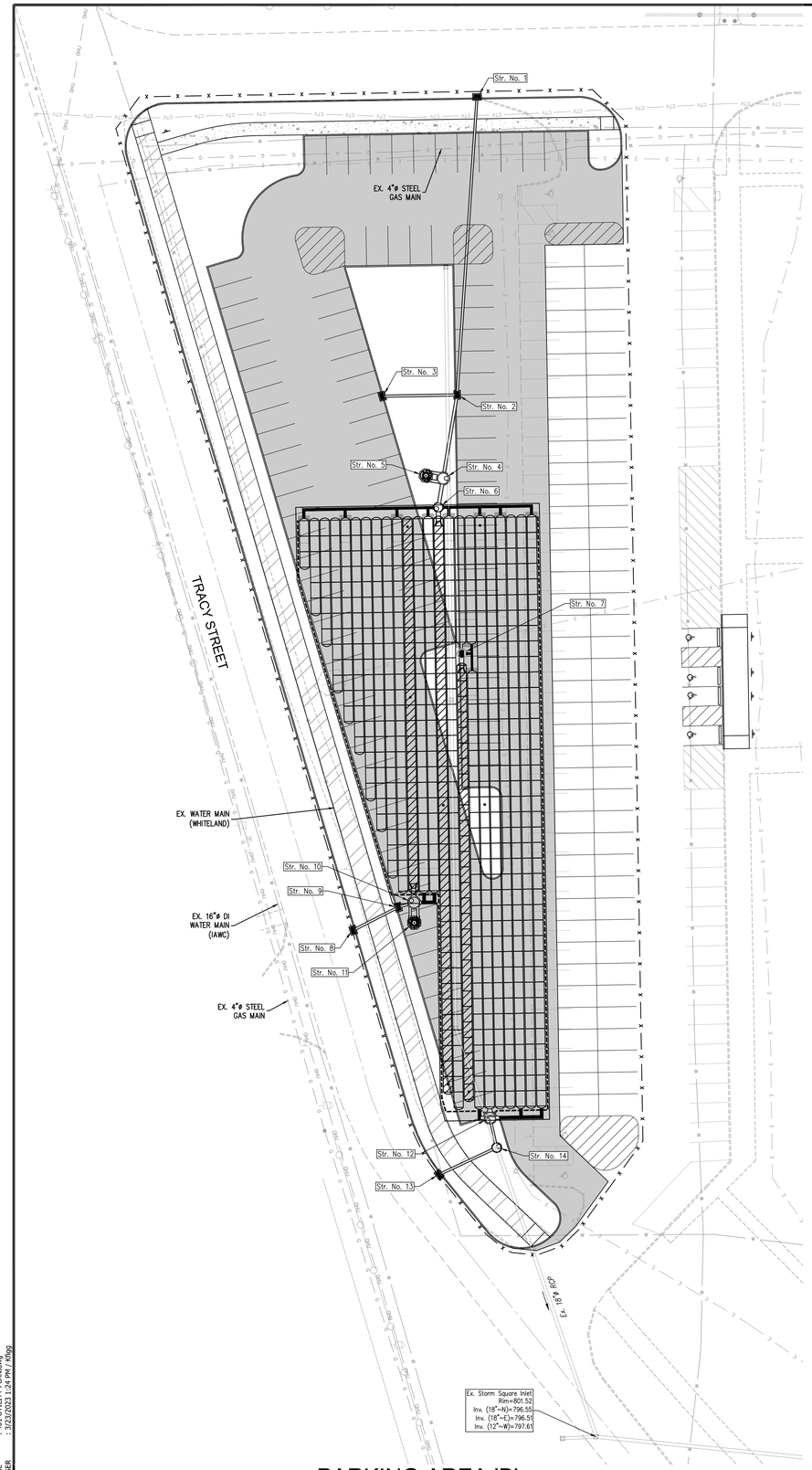
WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	GJI
DATE	FEBRUARY 27, 2023	DESIGNED	DMS				

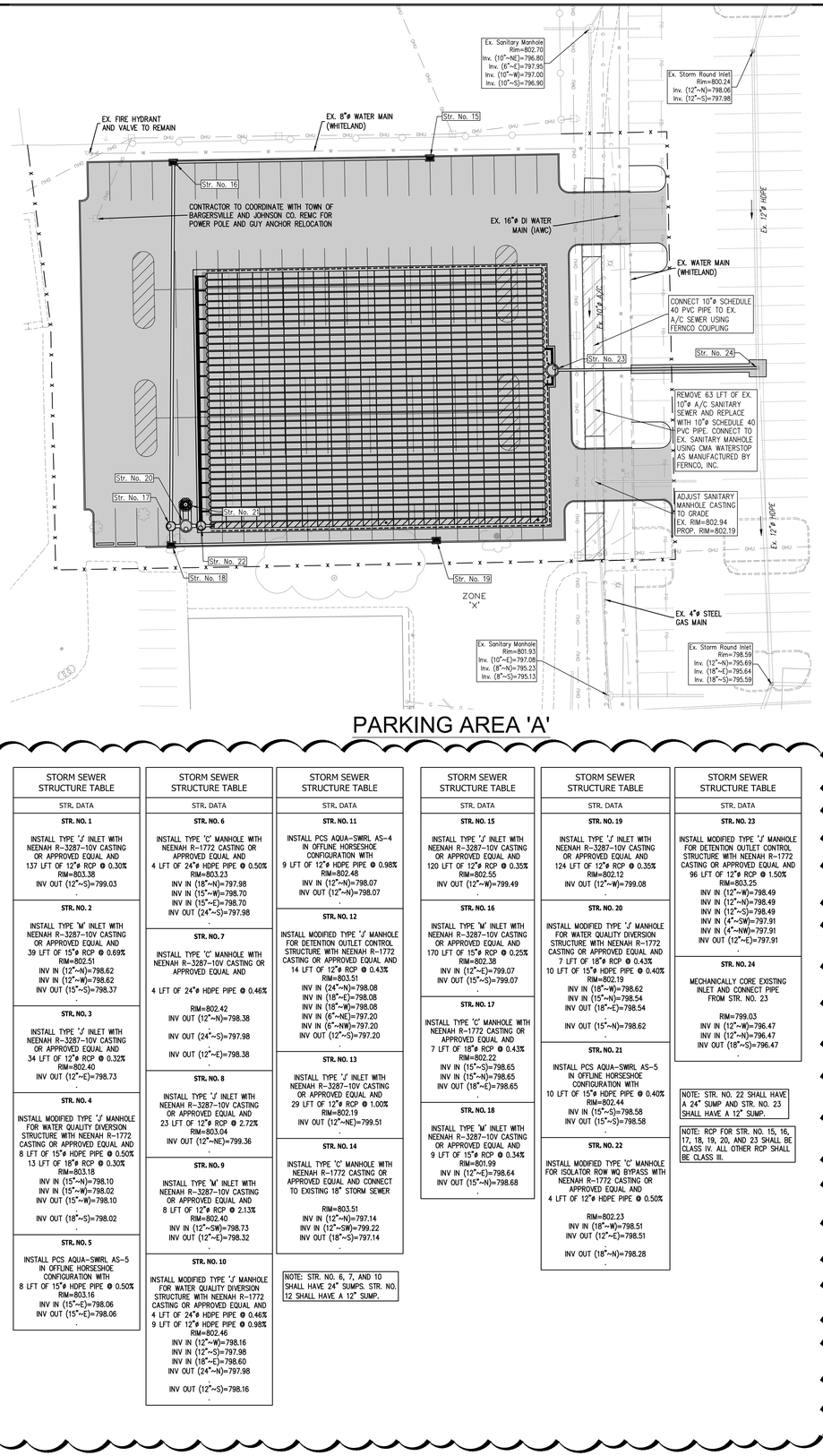
DEREK M. SNYDER REGISTERED NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI

SHEET 302



PARKING AREA 'B'



PARKING AREA 'A'

30 0 30 60

SCALE: 1" = 30'

PROPOSED LEGEND

- PROPERTY LINE
- SECTION LINE
- SETBACK LINE
- DITCH LINE
- STORM SEWER W/MANHOLE & END SECTION
- ELECTRIC LINE
- STORM MANHOLES
- STORM INLETS
- STORM CURB INLETS
- AQUA-SWIRL UNITS
- SIGN
- PERMANENT CONSTRUCTION FENCE WITH SCREENING ON DRIVEN POSTS
- TEMPORARY CONSTRUCTION FENCE ON STANDS WITH SAND BAGS

EXISTING LEGEND

POWERPOLE	CONTOURS
POWERPOLE W/RISER	PROPERTY LINE
POWERPOLE W/LIGHT	SECTION LINE
LIGHT POLE	RIGHT-OF-WAY
ELECTRIC METER	EASEMENT
ELECTRIC BOX	ADJOINER LINE
YARD LIGHT	PAVEMENT LINE
GUIDE WIRE	FIELD LINE
TELEPHONE MANHOLE	PRIVACY FENCE
TELEPHONE RISER	CHAINLINK FENCE
WATER VALVE	SPLIT RAIL FENCE
FIRE HYDRANT	DITCH
WATER MANHOLE	FIBER OPTIC LINE
WATER METER	GAS LINE
GAS VALVE	TELEPHONE LINE
GAS METER	WATER LINE
CABLE TV RISER	CABLE TV LINE
FIBER OPTIC BOX	ELECTRIC LINE
CLEANOUT	OVERHEAD UTILITY LINE
SIGN	TREE LINE
STORM ROUND INLET	SANITARY SEWER
STORM CURB INLET	W/MANHOLE
RIGHT-OF-WAY MARKER	STORM SEWER W/ MANHOLE & END SECTION
TREE, BUSH & STUMP	(D) DEED (M) MEASURE (PS) PLAT SURVEY
TEMP. BENCHMARK	ASPHALT, BUILDING, CONCRETE, GRAVEL, REMOVAL/DEMOLISH

STORM SEWER STRUCTURE TABLE

STR. DATA

STR. NO. 1
INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
137 LFT OF 12"ø RCP @ 0.30%
RIM=803.38
INV OUT (12"~S)=799.03

STR. NO. 2
INSTALL TYPE 'M' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
39 LFT OF 15"ø RCP @ 0.69%
RIM=802.51
INV IN (12"~N)=798.62
INV IN (12"~W)=798.62
INV OUT (15"~S)=798.37

STR. NO. 3
INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
34 LFT OF 12"ø RCP @ 0.32%
RIM=802.40
INV OUT (12"~E)=798.73

STR. NO. 4
INSTALL MODIFIED TYPE 'J' MANHOLE FOR WATER QUALITY DIVERSION STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND
8 LFT OF 15"ø HDPE PIPE @ 0.50%
13 LFT OF 18"ø RCP @ 0.30%
RIM=803.18
INV IN (15"~N)=798.10
INV IN (15"~W)=798.02
INV OUT (15"~W)=798.10
INV OUT (18"~S)=798.02

STR. NO. 5
INSTALL PCS AQUA-SWIRL AS-5 IN OFFLINE HORSESHOE CONFIGURATION WITH
8 LFT OF 15"ø HDPE PIPE @ 0.50%
RIM=803.16
INV IN (15"~E)=798.06
INV OUT (15"~E)=798.06

STR. NO. 6
INSTALL TYPE 'C' MANHOLE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND
4 LFT OF 24"ø HDPE PIPE @ 0.50%
RIM=803.23
INV IN (18"~W)=797.98
INV IN (15"~W)=798.70
INV IN (15"~E)=798.70
INV OUT (24"~S)=797.98

STR. NO. 7
INSTALL TYPE 'C' MANHOLE WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
4 LFT OF 24"ø HDPE PIPE @ 0.46%
RIM=802.42
INV OUT (12"~N)=798.38
INV OUT (24"~S)=797.98
INV OUT (12"~E)=798.38

STR. NO. 8
INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
23 LFT OF 12"ø RCP @ 2.72%
RIM=803.04
INV OUT (12"~NE)=799.36

STR. NO. 9
INSTALL TYPE 'M' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
8 LFT OF 12"ø RCP @ 2.13%
RIM=802.40
INV IN (12"~SW)=798.73
INV OUT (12"~E)=798.32

STR. NO. 10
INSTALL MODIFIED TYPE 'J' MANHOLE FOR WATER QUALITY DIVERSION STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND
4 LFT OF 24"ø HDPE PIPE @ 0.46%
9 LFT OF 12"ø HDPE PIPE @ 0.98%
RIM=802.46
INV IN (12"~W)=798.16
INV IN (12"~S)=797.98
INV IN (18"~E)=798.60
INV OUT (24"~N)=797.98
INV OUT (12"~S)=798.16

STR. NO. 11
INSTALL PCS AQUA-SWIRL AS-4 IN OFFLINE HORSESHOE CONFIGURATION WITH
9 LFT OF 12"ø HDPE PIPE @ 0.98%
RIM=802.48
INV IN (12"~N)=798.07
INV OUT (12"~N)=798.07

STR. NO. 12
INSTALL MODIFIED TYPE 'J' MANHOLE FOR DETENTION OUTLET CONTROL STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND
14 LFT OF 12"ø RCP @ 0.43%
RIM=803.51
INV IN (24"~N)=798.08
INV IN (18"~E)=798.08
INV IN (18"~W)=798.08
INV IN (6"~NE)=797.20
INV IN (6"~NW)=797.20
INV OUT (12"~S)=797.20

STR. NO. 13
INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
29 LFT OF 12"ø RCP @ 1.00%
RIM=802.19
INV OUT (12"~NE)=799.51

STR. NO. 14
INSTALL TYPE 'C' MANHOLE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND CONNECT TO EXISTING 18" STORM SEWER
RIM=803.51
INV IN (12"~N)=797.14
INV IN (12"~SW)=799.22
INV OUT (18"~S)=797.14

NOTE: STR. NO. 6, 7, AND 10 SHALL HAVE 24" SUMPS. STR. NO. 12 SHALL HAVE A 12" SUMP.

STR. NO. 15
INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
120 LFT OF 12"ø RCP @ 0.35%
RIM=802.55
INV OUT (12"~W)=799.49

STR. NO. 16
INSTALL TYPE 'M' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
170 LFT OF 15"ø RCP @ 0.25%
RIM=802.38
INV IN (12"~E)=799.07
INV OUT (15"~S)=799.07

STR. NO. 17
INSTALL TYPE 'C' MANHOLE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND
7 LFT OF 18"ø RCP @ 0.43%
RIM=802.22
INV IN (15"~S)=798.65
INV IN (15"~N)=798.65
INV OUT (18"~E)=798.65

STR. NO. 18
INSTALL TYPE 'M' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
9 LFT OF 15"ø RCP @ 0.34%
RIM=801.99
INV IN (12"~E)=798.64
INV OUT (15"~N)=798.68

STR. NO. 19
INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND
124 LFT OF 12"ø RCP @ 0.35%
RIM=802.12
INV OUT (12"~W)=799.08

STR. NO. 20
INSTALL MODIFIED TYPE 'J' MANHOLE FOR WATER QUALITY DIVERSION STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND
7 LFT OF 18"ø RCP @ 0.43%
10 LFT OF 15"ø HDPE PIPE @ 0.40%
RIM=802.19
INV IN (18"~W)=798.62
INV IN (15"~N)=798.54
INV OUT (18"~E)=798.54
INV OUT (15"~N)=798.62

STR. NO. 21
INSTALL PCS AQUA-SWIRL AS-5 IN OFFLINE HORSESHOE CONFIGURATION WITH
10 LFT OF 15"ø HDPE PIPE @ 0.40%
RIM=802.44
INV IN (15"~S)=798.58
INV OUT (15"~S)=798.58

STR. NO. 22
INSTALL MODIFIED TYPE 'C' MANHOLE FOR ISOLATOR ROW WQ BYPASS WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND
4 LFT OF 12"ø HDPE PIPE @ 0.50%
RIM=802.23
INV IN (18"~W)=798.51
INV OUT (12"~E)=798.51
INV OUT (18"~N)=798.28

STR. NO. 23
INSTALL MODIFIED TYPE 'J' MANHOLE FOR DETENTION OUTLET CONTROL STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND
96 LFT OF 12"ø RCP @ 1.50%
RIM=803.25
INV IN (12"~W)=798.49
INV IN (12"~N)=798.49
INV IN (12"~S)=798.49
INV IN (4"~SW)=797.91
INV IN (4"~NW)=797.91
INV OUT (12"~E)=797.91

STR. NO. 24
MECHANICALLY CORE EXISTING INLET AND CONNECT PIPE FROM STR. NO. 23
RIM=799.03
INV IN (12"~W)=796.47
INV IN (12"~N)=796.47
INV OUT (18"~S)=796.47

NOTE: STR. NO. 22 SHALL HAVE A 24" SUMP AND STR. NO. 23 SHALL HAVE A 12" SUMP.

NOTE: RCP FOR STR. NO. 15, 16, 17, 18, 19, 20, AND 23 SHALL BE CLASS IV. ALL OTHER RCP SHALL BE CLASS III.

UTILITIES NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
2. CONTRACTOR SHALL REFER TO THE ELECTRICAL SITE PLAN PREPARED BY PRIMARY ENGINEERING, INC. FOR PARKING LOT LIGHTING AND SPECIFICATIONS.
3. ALL STORM SEWER CASTINGS SHALL BE NPDES PHASE II COMPLIANT. CASTINGS SHALL BE MANUFACTURED WITH A STATEMENT SAYING: "DUMP NO WASTE, DRAINS TO RIVER" IN ½" RAISED LETTERS.
4. ALL FIELD TILES DISTURBED DURING CONSTRUCTION MUST BE REPAIRED/CONNECTED TO NEW STORMWATER FACILITIES.
5. EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL; PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.

INDIANA 811 Dig Once Know what's below. Call before you dig.

DIRECTORY PATH - R:\Active\Larson-Reske\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME - 401 UTILITY PLAN.dwg
DATE/USER - 3/23/2023 1:24 PM / Kfigg

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 400

UTILITY PLAN

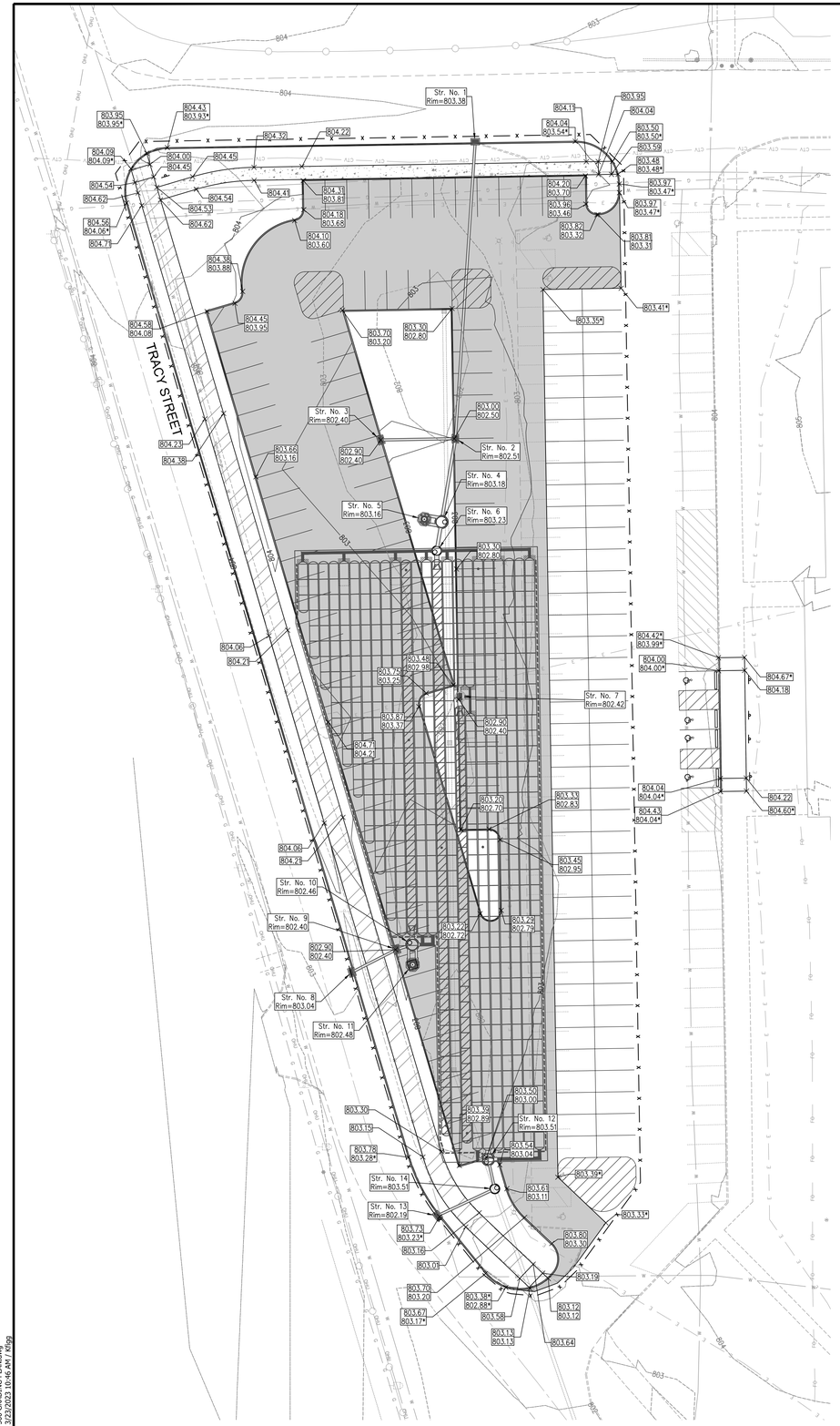
WHITELAND HIGH SCHOOL PHASE 1A

JOB No. . | DRAWN KLF | CHECKED TEN | APPR. GJI
DATE FEBRUARY 27, 2023 | DESIGNED DMS | DRAWN DMS | CHECKED GJI | APPR. GJI

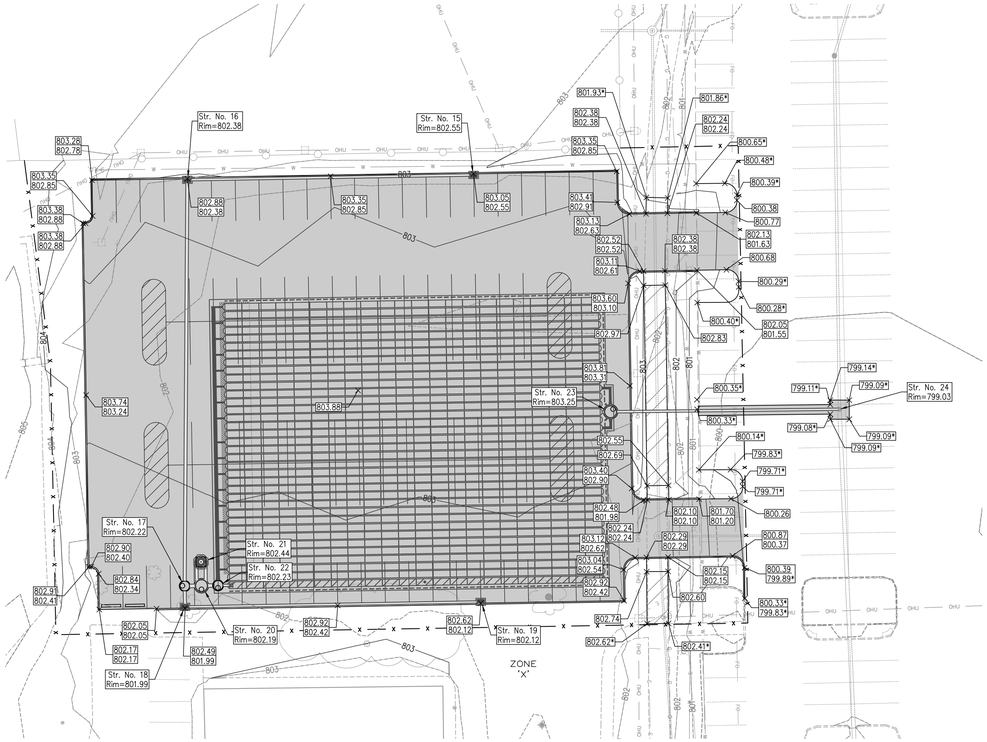
REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
1				
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, AOS STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI
3	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
4				
5				
6				
7				
8				
9				

SHEET 400



PARKING AREA 'B'



PARKING AREA 'A'

BENCHMARK INFORMATION

ORIGINATING BENCHMARK

DESIGNATION – X 13
PID – KA0010
STATE/COUNTY – IN/MORGAN
USGS QUAD – MOORESVILLE EAST (1980)

VERT ORDER – FIRST CLASS II

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
1.2 MI N FROM WAVERLY.
IN JOHNSON COUNTY, 1.2 MILES NORTH ALONG STATE HIGHWAY 37 FROM THE INTERSECTION OF STATE HIGHWAY 144 AT WAVERLY, MORGAN COUNTY, 125 YARDS NORTH OF THE MORGAN–JOHNSON COUNTY LINE, 26 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, IN LINE WITH THE WEST RIGHT–OF–WAY FENCE, 1.5 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 2 FEET HIGHER THAN THE HIGHWAY. A STANDARD DISK, STAMPED 686.370 X 13 1930 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 7 INCHES ABOVE GROUND.

RECOVERY NOTE BY IN DEPT OF NAT RES 1985
NEW DESC– AT THE INTERSECTION OF NEW STATE ROAD 144 AND OLD STATE ROAD 37, IN THE SOUTHWEST QUARTER OF THE INTERSECTION, WITNESS POST IS GONE RIGHT–OF–WAY FENCE IS GONE, ALL OTHER INFORMATION APPEARS TO BE CORRECT.

ELEVATION = 685.94 (NAVD 88)

TBM #400
RR SPIKE SET IN E FACE OF PP#"P21063" LOCATED ±180' N OF "TRACT NORTH DRIVE" ±40' WEST OF "SAINT CHARLES WAY"
ELEV.=805.77

TBM #401
RR SPIKE SET IN E FACE OF PP#"P21D42" LOCATED ±6' W OF "TRACY ST." ±40' S OF N PARKING LOT ENTRANCE @ "CLARK PLEASANT EMPLOYEE HEALTH & WELLNESS CENTER"
ELEV.=805.07

TBM #402
CUT BOX ON TOP OF CONC PEDESTAL FOR UP ON N EDGE OF CONC. LOCATED @ NE MOST CORNER OF PARKING LOT FOR "199 US–31 "BIG SPLASH CAR WASH"
ELEV.=806.18

TBM #403
SE MOST CORNER OF BOTTOM CONC STEP LOCATED @ SE CORNER OF "STUDIO 31 SALON" "43 N. US–31" ON E FACE OF BUILDING.
ELEV.=801.28

TBM #404
NE CORNER OF TOP CONC STEP CONNECTED TO LEAD WALK @ "239 E MAIN ST." LOCATED SE QUAD OF "E MAIN ST." & "TICHENOR LN."
ELEV.=799.80

TBM #405
RR SPIKE SET IN E FACE POWERPOLE. LOCATED ±5' S OF "E MAIN ST." & ±XX W OF DRIVE @ "399 E MAIN ST."
ELEV.=790.98

TBM #406
SW CORNER OF CONC PORCH @ "49 CENTER ST."
ELEV.=797.61

TBM #407
RR SPIKE SET IN S FACE OF PP# "P22C73". LOCATED ±5' E OF "CENTER ST." & ±150' N OF "CLEM ST."
ELEV.=800.07

TBM #408
RR SPIKE SET IN E FACE OF POWER POLE. LOCATED @ SW CORNER OF PROPERTY OF "329 CHRISTINA DR."
ELEV.=800.89

GRADING LEGEND

860.00 TOP OF CURB 859.50 EDGE OF PAVEMENT	PROPOSED ELEVATIONS
860.00 FINISH GRADE	
860.00 * 859.50 *	PROPOSED ELEVATIONS (TO BE FIELD VERIFIED)
860.00 *	
	PROPOSED DRAINAGE SWALE
800	EXISTING CONTOURS
800	PROPOSED CONTOURS
GRADE BREAK	GRADE BREAK
	CURB HEIGHT TO TAPER FROM 0.5' TO 0.0' IN 6 LFT.

GRADING NOTES

1. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS IN FINAL GRADING OF SITE. NO INSTANCE SHALL DRAINAGE TOWARDS THE BUILDING FOUNDATION BE ALLOWED.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING PAVEMENT, SIDEWALK, AND CURB ELEVATIONS AT ALL TIE IN LOCATIONS PRIOR TO CONSTRUCTION AND REPORT DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
3. ALL CURB RAMPS SHALL BE A.D.A. COMPLIANT AND THE LONGITUDINAL AND CROSS SLOPES SHALL NOT EXCEED THE MAXIMUM SLOPES IDENTIFIED ON THE MISCELLANEOUS DETAILS (SEE SHEET 900). CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF FIELDS CONDITIONS PREVENT CURB RAMPS FROM BEING CONSTRUCTED WITHOUT EXCEEDING MAXIMUM SLOPES.

NORTH

30 0 30 60

SCALE: 1" = 30'

DIRECTORY PATH : R:\Active\Lance-Burke\Whiteland High School\Design\CAD\Plans\PHASE 1A
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DATE/USER : 3/23/2023 10:46 AM / KFigg

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

GRADING PLAN

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	SHEET	500
DATE	FEBRUARY 27, 2023	DESIGNED	DMS	APPR.	GJI		

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
2	03.24.23	ADDENDUM 2–REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI
3				
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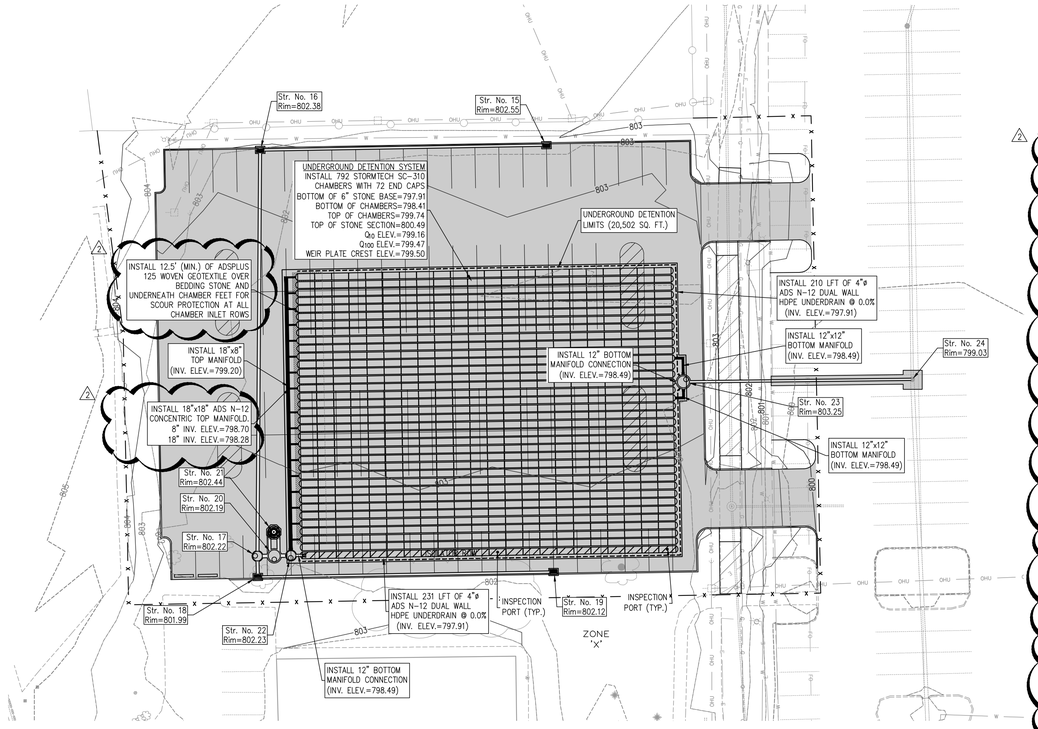
SHEET 500



PARKING AREA 'A'

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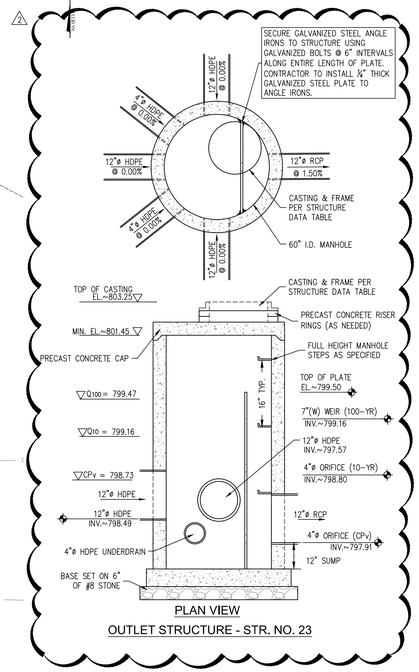
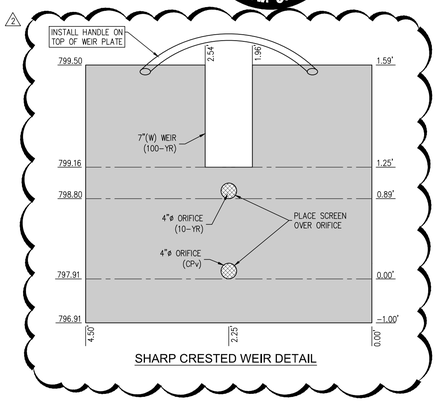
SCALE: 1" = 30'



PLAN VIEW

OUTLET STRUCTURE - STR. NO. 23



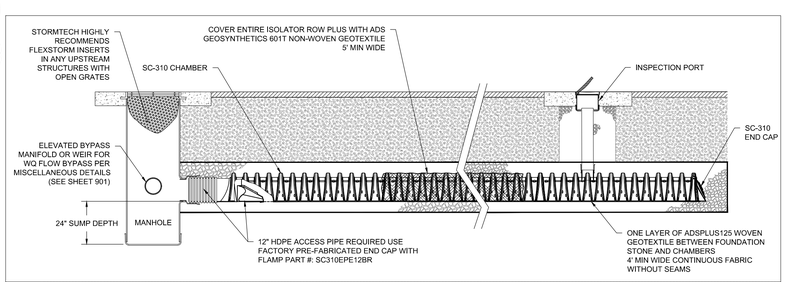
SHARP CRESTED WEIR DETAIL

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS

NOTE: NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

PROPOSED LEGEND

- PROPERTY LINE
- SECTION LINE
- SETBACK LINE
- DITCH LINE
- STORM SEWER W/MANHOLE & END SECTION
- ELECTRIC LINE
- STORM MANHOLES
- STORM INLETS
- STORM CURB INLETS
- AQUA-SWIRL UNITS
- SIGN
- PERMANENT CONSTRUCTION FENCE WITH SCREENING ON DRIVEN POSTS
- TEMPORARY CONSTRUCTION FENCE ON STANDS WITH SAND BAGS

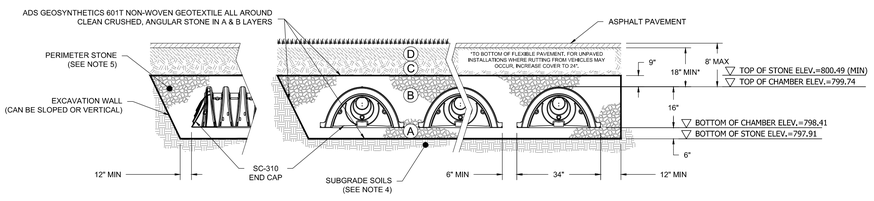


5 SC-310 ISOLATOR ROW PLUS DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs. DYNAMIC FORCE NOT TO EXCEED 20,000 lbs.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

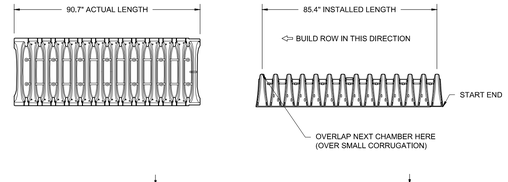


NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 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.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - 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 YELLOW COLORS.

**THIS CROSS SECTION DETAIL REPRESENTS MINIMUM REQUIREMENTS FOR INSTALLATION. PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS.

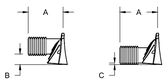
1 SC-310 CROSS SECTION DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"
CHAMBER STORAGE	14.7 CUBIC FEET
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET
WEIGHT	35.0 lbs.

*ASSUMES 6" ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE CORED END CAPS END WITH "PC"

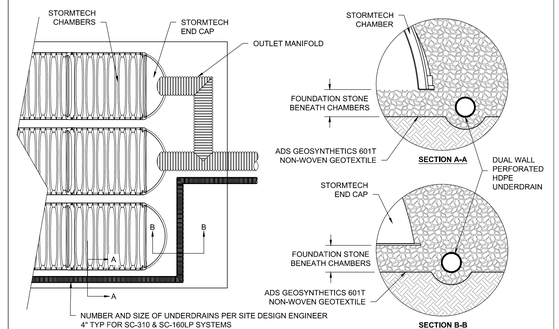
PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6"	9.6"	5.8"	---
SC310EPE06B / SC310EPE06BPC			---	0.5"
SC310EPE08T / SC310EPE08TPC	8"	11.9"	3.5"	---
SC310EPE08B / SC310EPE08BPC			---	0.6"
SC310EPE10T / SC310EPE10TPC	10"	12.7"	1.4"	---
SC310EPE10B / SC310EPE10BPC			---	0.7"
SC310EPE12B	12"	13.5"	---	0.9"
SC310EPE12BR	12"	13.5"	---	0.9"

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

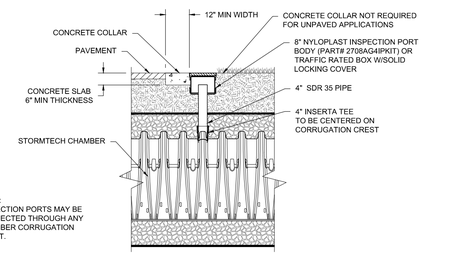
* FOR THE SC310EPE12B THE 12" STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" . BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

2 SC-310 TECHNICAL SPECIFICATIONS



3 UNDERDRAIN DETAIL



4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

DIRECTORY PATH : R:\Active\Lennon-Bethel\Whiteland High School\Design\CAD\Plans\PHASE 1A
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DATE/USER : 2/24/2023 6:43 AM / Dsnyder

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 600

DRAINAGE PLAN

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	CHECKED	TEN	SHEET	600
DRAWN	KLF				
DESIGNED	DMS	APPR.	CJI		
DATE	FEBRUARY 27, 2023				

REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	CJI
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	CJI
3				
4				
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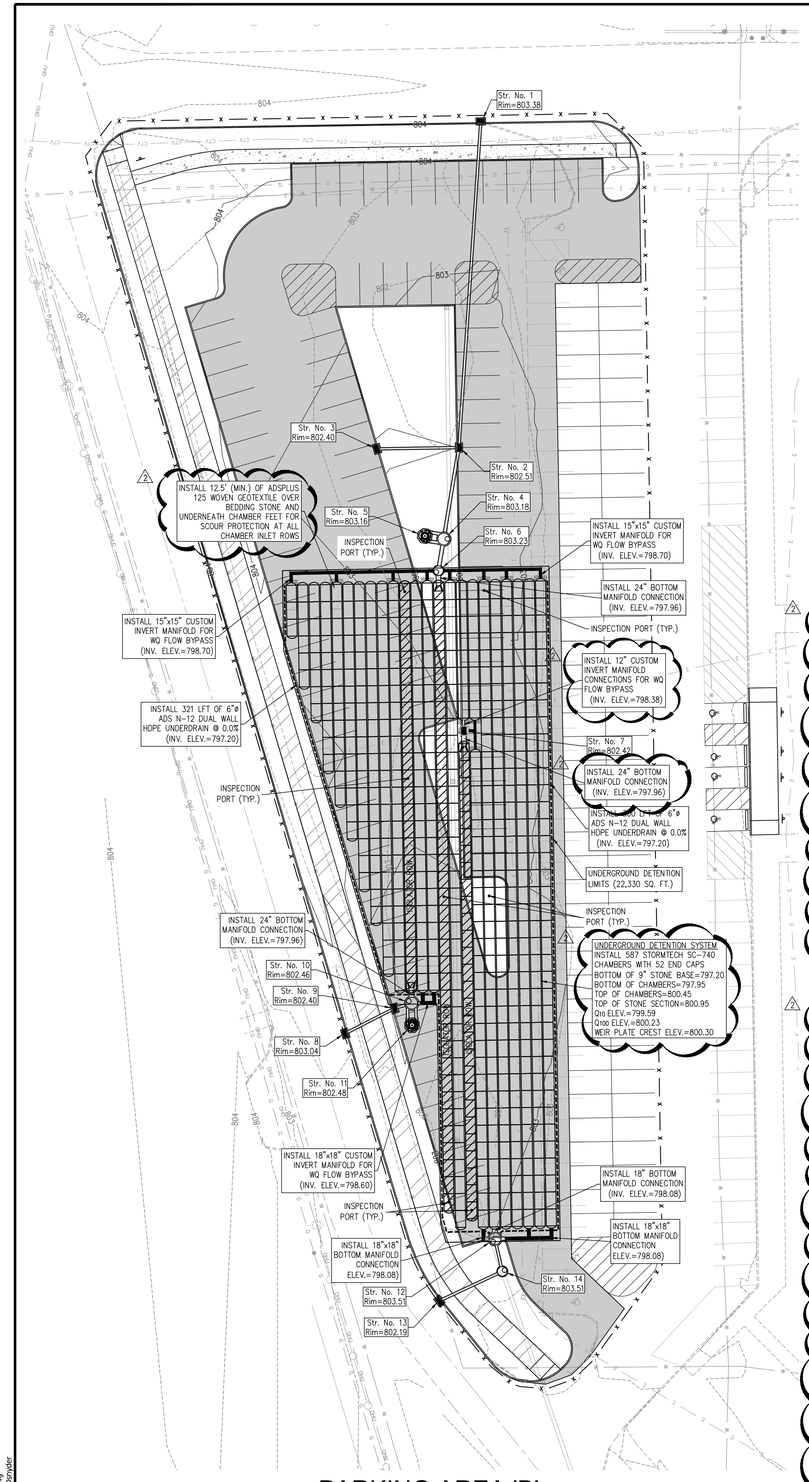
9				

SHEET 600



PARKING AREA 'B'

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

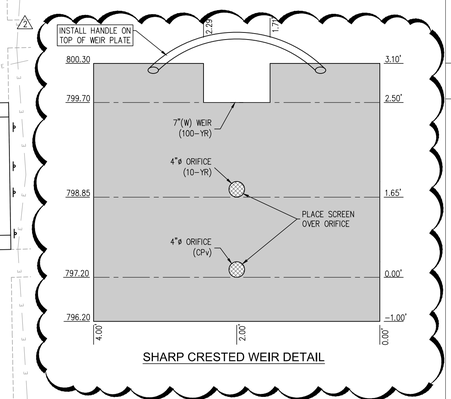
PROPOSED LEGEND

- PROPERTY LINE
- SECTION LINE
- SETBACK LINE
- DITCH LINE
- STORM SEWER W/MANHOLE & END SECTION
- ELECTRIC LINE
- STORM MANHOLES
- STORM INLETS
- STORM CURB INLETS
- AQUA-SWIRL UNITS
- SIGN
- PERMANENT CONSTRUCTION FENCE WITH SCREENING ON DRIVEN POSTS
- TEMPORARY CONSTRUCTION FENCE ON STANDS WITH SAND BAGS

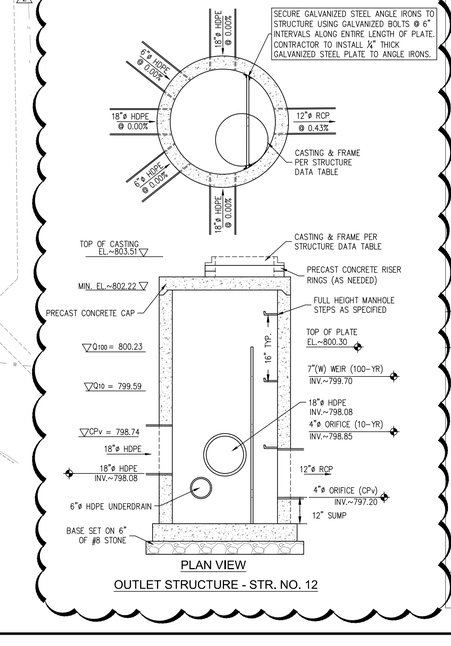
NORTH

30 0 30 60

SCALE: 1" = 30'



SHARP CRESTED WEIR DETAIL



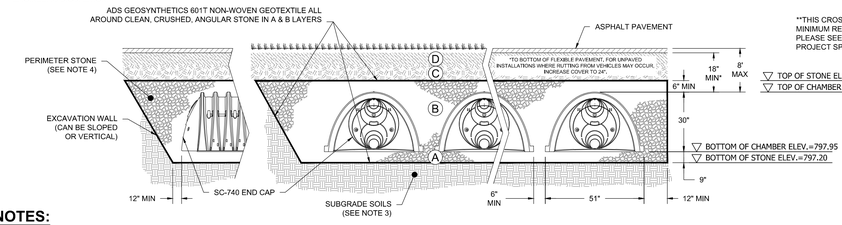
PLAN VIEW

OUTLET STRUCTURE - STR. NO. 12

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEERS PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B* LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" OF MATERIAL OVER THE CHAMBERS IS REACHED, COMPACT ADDITIONAL LAYERS IN 6" MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs. DYNAMIC FORCE NOT TO EXCEED 20,000 lbs.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

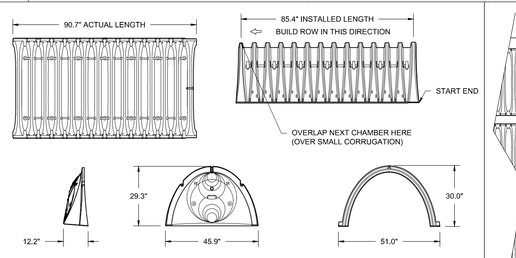


**THIS CROSS SECTION DETAIL REPRESENTS MINIMUM REQUIREMENTS FOR INSTALLATION. PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS.

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 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.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - 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 F2418 SHALL BE GREATER THAN OR EQUAL TO 550 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 YELLOW COLORS.

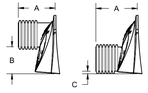
1 SC-740 CROSS SECTION DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"
CHAMBER STORAGE	45.9 CUBIC FEET
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET
WEIGHT	75.0 lbs.

*ASSUMES 6" STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6"	10.9"	18.5"	---
SC740EPE06B / SC740EPE06BPC			---	0.5"
SC740EPE08T /SC740EPE08TPC	8"	12.2"	16.5"	---
SC740EPE08B / SC740EPE08BPC			---	0.6"
SC740EPE10T / SC740EPE10TPC	10"	13.4"	14.5"	---
SC740EPE10B / SC740EPE10BPC			---	0.7"
SC740EPE12T / SC740EPE12TPC	12"	14.7"	12.5"	---
SC740EPE12B / SC740EPE12BPC			---	1.2"
SC740EPE15T / SC740EPE15TPC	15"	18.4"	9.0"	---
SC740EPE15B / SC740EPE15BPC			---	1.3"
SC740EPE18T / SC740EPE18TPC	18"	19.7"	5.0"	---
SC740EPE18B / SC740EPE18BPC			---	1.6"
SC740EPE24B*	24"	18.5"	---	0.1"
SC740EPE24BR*	24"	18.5"	---	0.1"

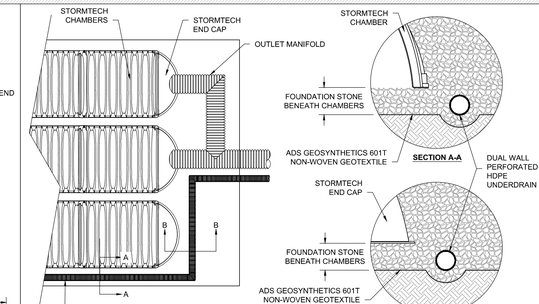
ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B/SC740EPE24BR THE 24" STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75". BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

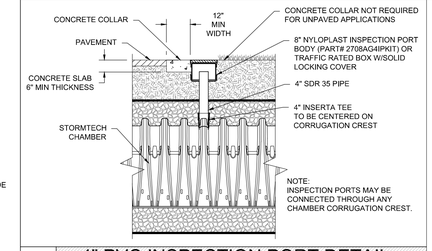
NOTE: ALL DIMENSIONS ARE NOMINAL

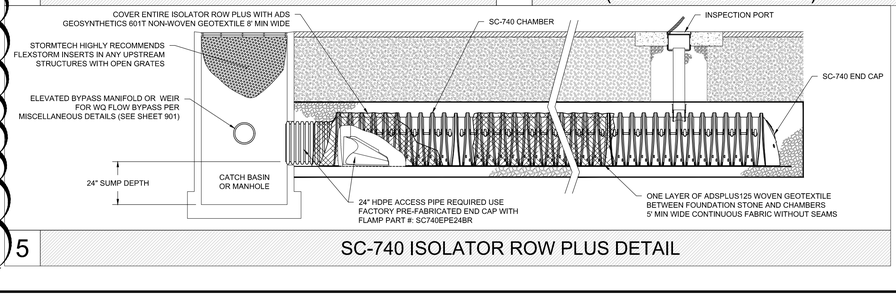
2 SC-740 TECHNICAL SPECIFICATIONS

3 UNDERDRAIN DETAIL



4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)





5 SC-740 ISOLATOR ROW PLUS DETAIL

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

DRAINAGE PLAN

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN
DATE	FEBRUARY 27, 2023	DESIGNED	DMS	APPR.	CJI

SHEET 601

DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	CJI
2	03.24.23	ADDENDUM 2--REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & OBSC REVIEW	DMS	CJI
3				
4				
5				
6				
7				
8				
9				

SHEET 601

DIRECTORY PATH : R:\Active\Jones Books\Whiteland High School\Design\CAD\Plans\PHASE 1A
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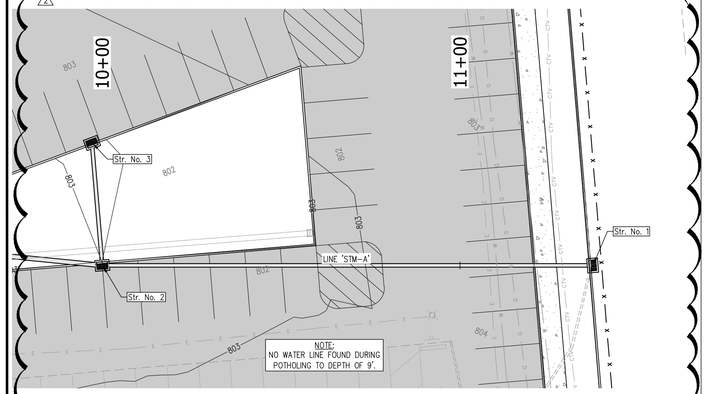
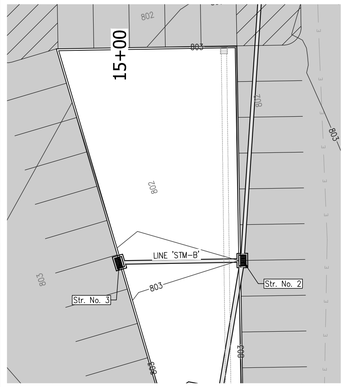
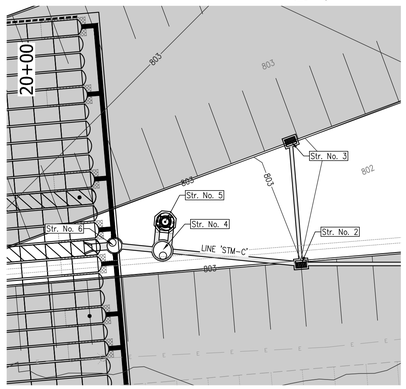
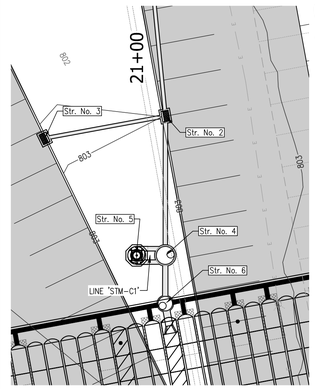
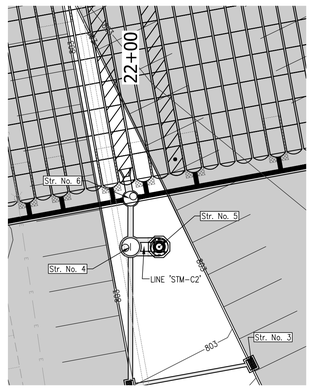
INDIANA 811 One Call. It's the Law. Know what's below. Call before you dig.

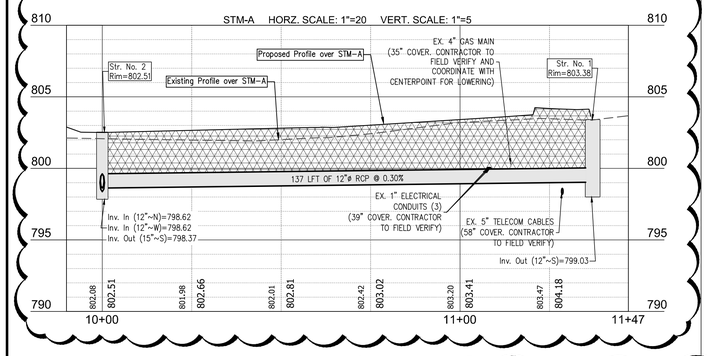


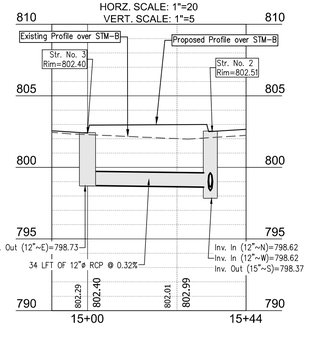


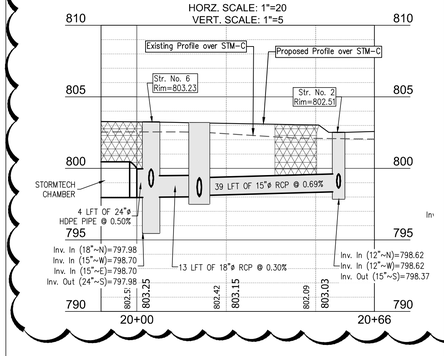


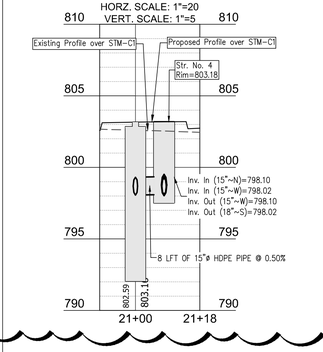


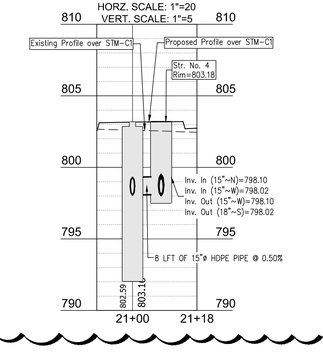


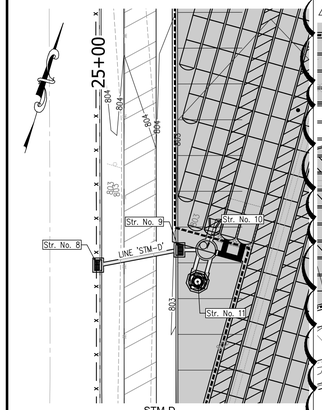


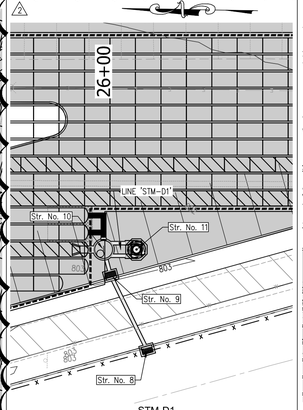


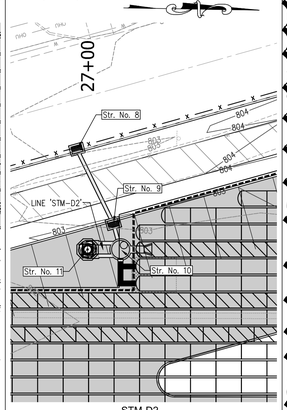


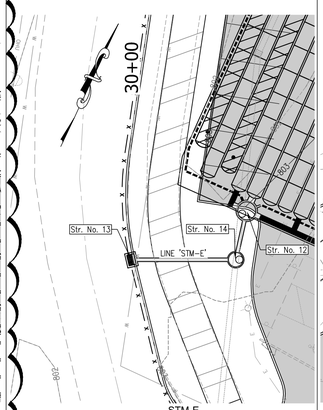


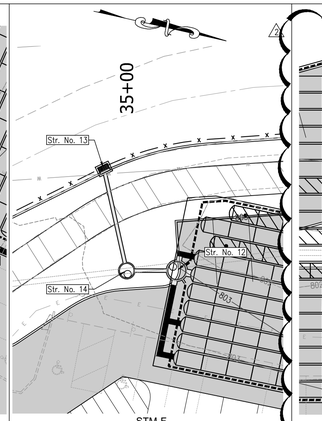


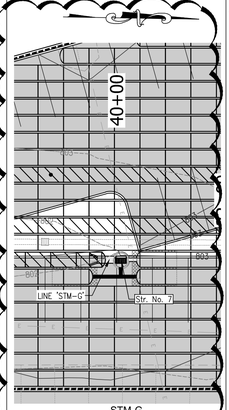


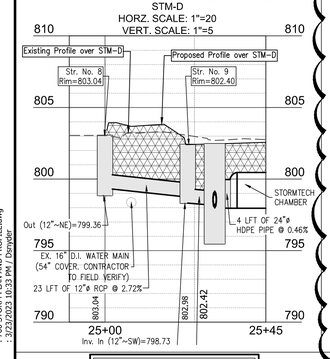


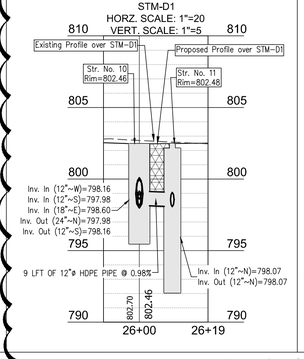


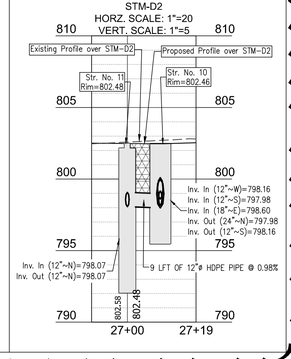


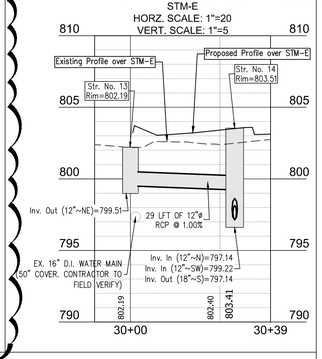


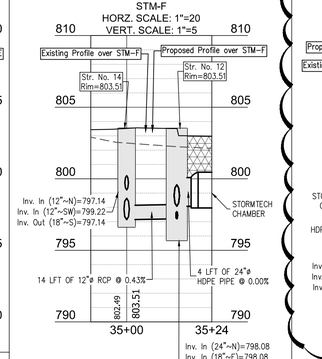


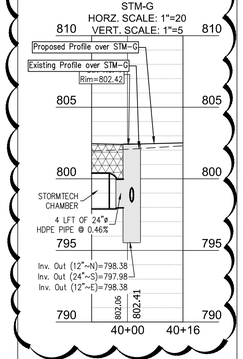












STORM SEWER STRUCTURE TABLE
STR. DATA
STR. NO. 1 INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 137 LFT OF 12"ø RCP @ 0.30% RIM=803.38 INV OUT (12"~S)=799.03
STR. NO. 2 INSTALL TYPE 'M' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 39 LFT OF 15"ø RCP @ 0.69% RIM=802.51 INV IN (12"~N)=798.62 INV IN (12"~W)=798.62 INV OUT (15"~S)=798.37
STR. NO. 3 INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 34 LFT OF 12"ø RCP @ 0.32% RIM=802.40 INV OUT (12"~E)=798.73
STR. NO. 4 INSTALL MODIFIED TYPE 'J' MANHOLE FOR WATER QUALITY DIVERSION STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND 8 LFT OF 15"ø HDPE PIPE @ 0.50% 13 LFT OF 18"ø RCP @ 0.30% RIM=803.18 INV IN (15"~N)=798.10 INV IN (15"~W)=798.02 INV OUT (15"~W)=798.10 INV OUT (18"~S)=798.02
STR. NO. 5 INSTALL PCS AQUA-SWRL AS-5 IN OFFLINE HORSESHOE CONFIGURATION WITH 8 LFT OF 15"ø HDPE PIPE @ 0.50% RIM=803.16 INV IN (15"~E)=798.06 INV OUT (15"~E)=798.06

STORM SEWER STRUCTURE TABLE
STR. DATA
STR. NO. 6 INSTALL TYPE 'C' MANHOLE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND 4 LFT OF 24"ø HDPE PIPE @ 0.50% RIM=803.23 INV IN (18"~N)=797.98 INV IN (15"~W)=798.70 INV IN (15"~E)=798.70 INV OUT (24"~S)=797.98
STR. NO. 7 INSTALL TYPE 'C' MANHOLE WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 4 LFT OF 24"ø HDPE PIPE @ 0.46% RIM=802.42 INV OUT (12"~N)=798.38 INV OUT (24"~S)=797.98 INV OUT (12"~E)=798.38
STR. NO. 8 INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 23 LFT OF 12"ø RCP @ 2.72% RIM=803.04 INV OUT (12"~NE)=799.36
STR. NO. 9 INSTALL TYPE 'M' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 8 LFT OF 12"ø RCP @ 2.13% RIM=802.40 INV IN (12"~SW)=798.73 INV OUT (12"~E)=798.32
STR. NO. 10 INSTALL MODIFIED TYPE 'J' MANHOLE FOR WATER QUALITY DIVERSION STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND 4 LFT OF 24"ø HDPE PIPE @ 0.46% 9 LFT OF 12"ø HDPE PIPE @ 0.98% RIM=802.46 INV IN (12"~W)=798.16 INV IN (12"~S)=797.98 INV IN (18"~E)=798.60 INV OUT (24"~N)=797.98 INV OUT (12"~S)=798.16

STORM SEWER STRUCTURE TABLE
STR. DATA
STR. NO. 11 INSTALL PCS AQUA-SWRL AS-4 IN OFFLINE HORSESHOE CONFIGURATION WITH 9 LFT OF 12"ø HDPE PIPE @ 0.98% RIM=802.48 INV IN (12"~N)=798.07 INV OUT (12"~N)=798.07
STR. NO. 12 INSTALL MODIFIED TYPE 'J' MANHOLE FOR DETENTION OUTLET CONTROL STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND 14 LFT OF 12"ø RCP @ 0.43% RIM=803.51 INV IN (24"~N)=798.08 INV IN (18"~E)=798.08 INV IN (18"~W)=798.08 INV IN (6"~NE)=797.20 INV IN (6"~NW)=797.20 INV OUT (12"~S)=797.20
STR. NO. 13 INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 29 LFT OF 12"ø RCP @ 1.00% RIM=802.19 INV OUT (12"~NE)=799.51
STR. NO. 14 INSTALL TYPE 'C' MANHOLE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND CONNECT TO EXISTING 18" STORM SEWER RIM=803.51 INV IN (12"~N)=797.14 INV IN (12"~SW)=799.22 INV OUT (18"~S)=797.14

NOTE: STR. NO. 6, 7, AND 10 SHALL HAVE 24" SUMPS. STR. NO. 12 SHALL HAVE A 12" SUMP.

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

NOTE:
ALL PLAN AND PROFILES ON THIS SHEET ARE LOCATED IN PARKING LOT 'B'

DENOTES APPROXIMATE LIMITS OF GRANULAR BACKFILL TO BE COMPACTED TO 95% PROCTOR DENSITY IN 6" MAX LIFTS

SCALE: 1" = 20'

DIRECTORY PATH : R:\Active\Lorain+Beloit\Whiteland High School\Design\CAD\Plans\PHASE 1A
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DATE/USER : 3/23/2023 10:33 PM / Dsnyder

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 700

STORM PLAN AND PROFILE

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	CJI
DATE	FEBRUARY 27, 2023	DESIGNED	DMS	DMS	CJI	BY	APPR.

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	CJI
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & OBEE REVIEW	DMS	CJI
3				
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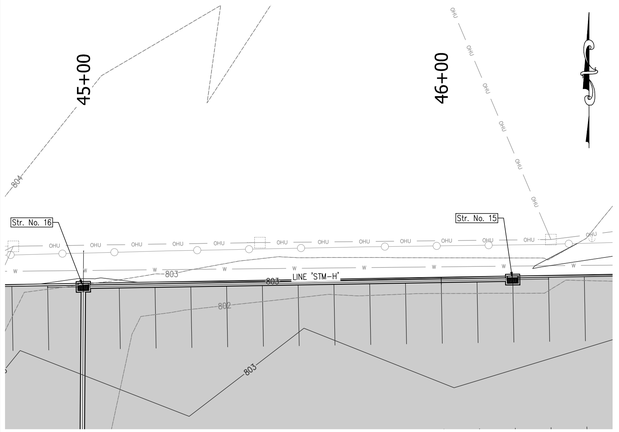
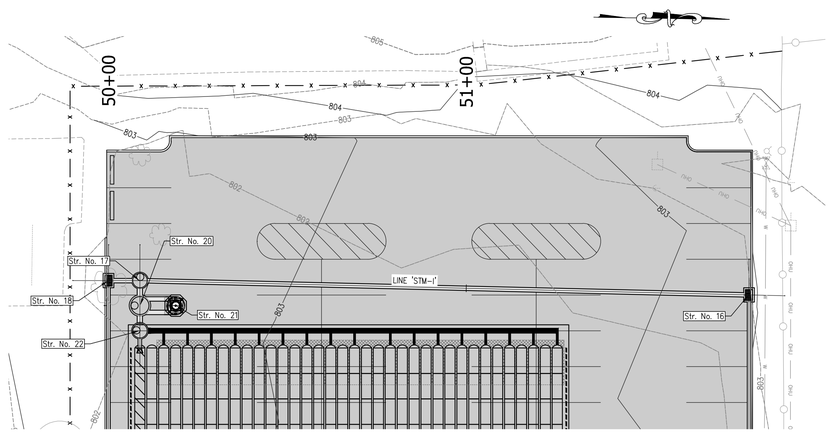
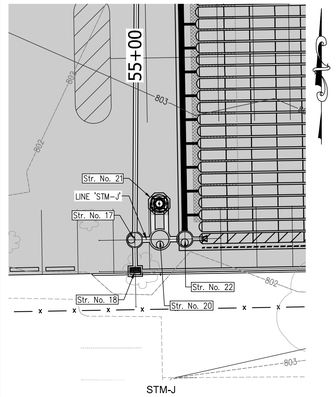
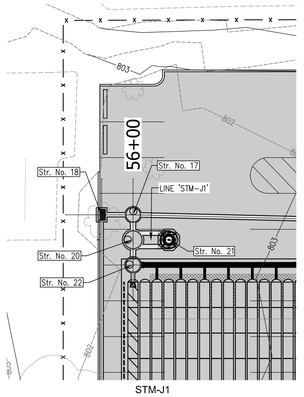
REGISTERED NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER
DEREK M. SNYDER

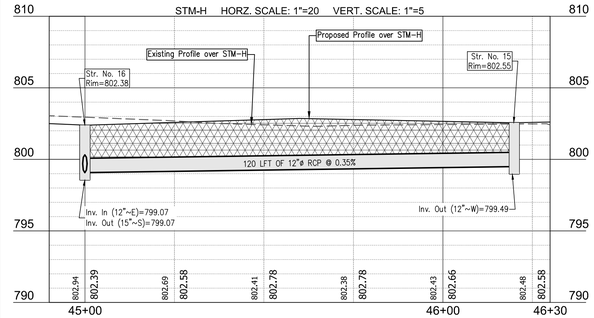
Know what's below. Call before you dig. INDIANA 811

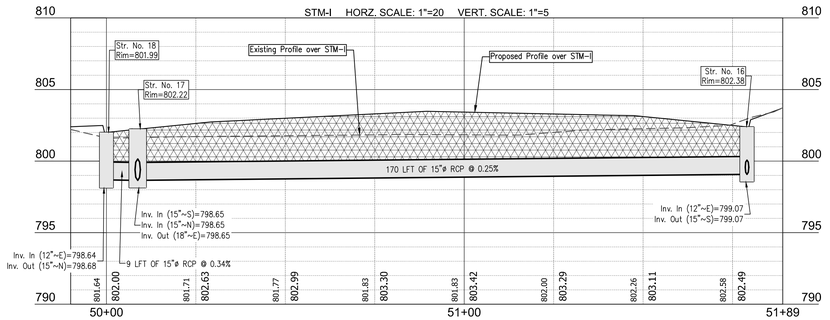


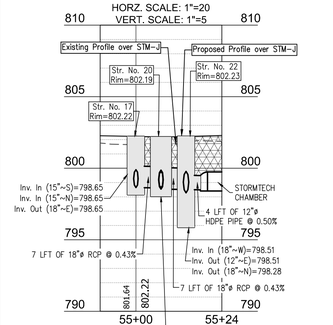


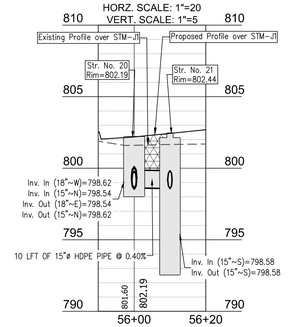


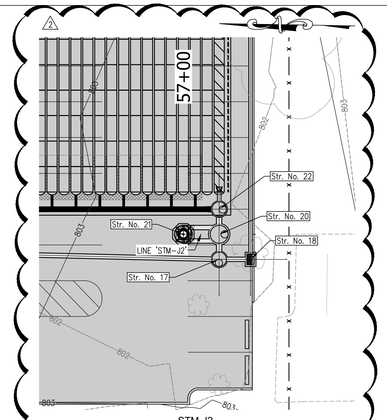


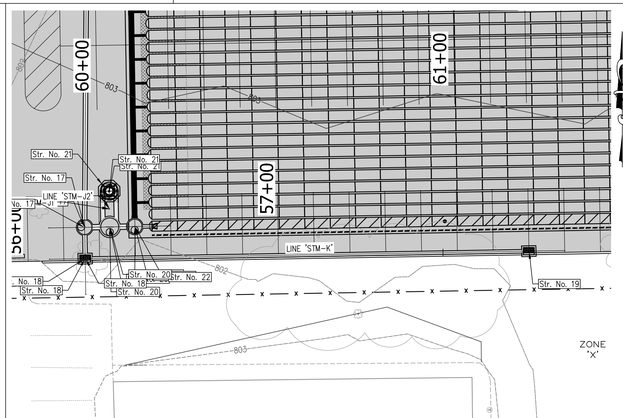


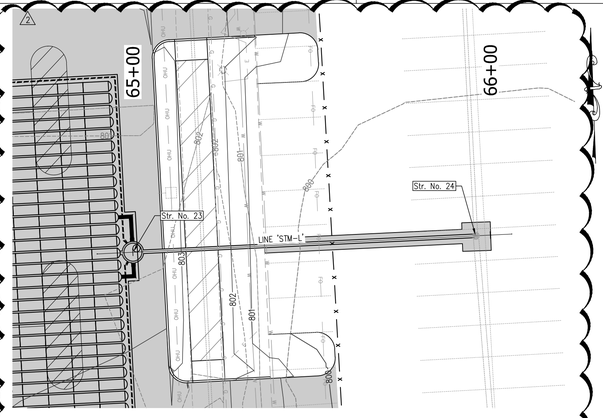


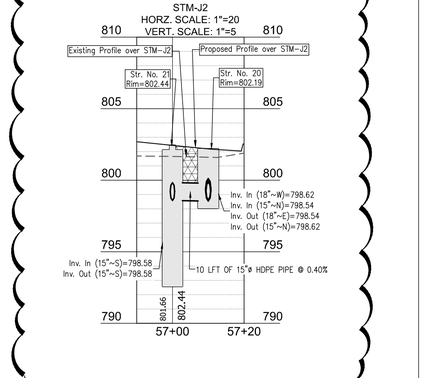


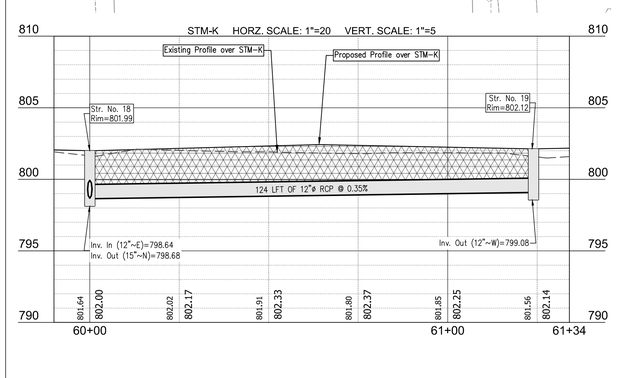


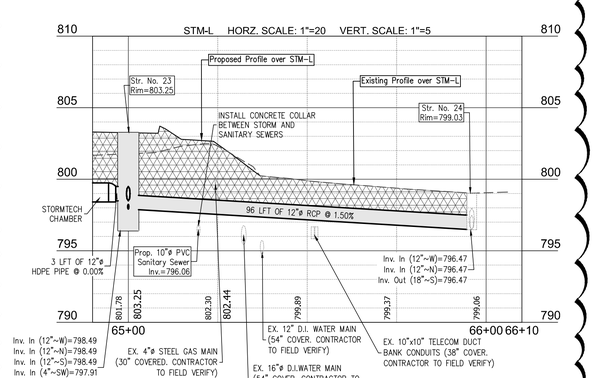












STORM SEWER STRUCTURE TABLE
STR. DATA
STR. NO. 15 INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 120 LFT OF 12"ø RCP @ 0.35% RIM=802.55 INV OUT (12"~W)=799.49
STR. NO. 16 INSTALL TYPE 'M' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 170 LFT OF 15"ø RCP @ 0.25% RIM=802.38 INV IN (12"~E)=799.07 INV OUT (15"~S)=799.07
STR. NO. 17 INSTALL TYPE 'C' MANHOLE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND 7 LFT OF 18"ø RCP @ 0.43% RIM=802.22 INV IN (15"~S)=798.65 INV IN (15"~N)=798.65 INV OUT (18"~E)=798.65
STR. NO. 18 INSTALL TYPE 'M' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 9 LFT OF 15"ø RCP @ 0.34% RIM=801.99 INV IN (12"~E)=798.64 INV OUT (15"~N)=798.68

STORM SEWER STRUCTURE TABLE
STR. DATA
STR. NO. 19 INSTALL TYPE 'J' INLET WITH NEENAH R-3287-10V CASTING OR APPROVED EQUAL AND 124 LFT OF 12"ø RCP @ 0.35% RIM=802.12 INV OUT (12"~W)=799.08
STR. NO. 20 INSTALL MODIFIED TYPE 'J' MANHOLE FOR WATER QUALITY DIVERSION STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND 7 LFT OF 18"ø RCP @ 0.43% 10 LFT OF 15"ø HDPE PIPE @ 0.40% RIM=802.19 INV IN (18"~W)=798.62 INV IN (15"~N)=798.54 INV OUT (18"~E)=798.54 INV OUT (15"~N)=798.62
STR. NO. 21 INSTALL PCS AQUA-SWRL AS-5 IN OFFLINE HORSESHOE CONFIGURATION WITH 10 LFT OF 15"ø HDPE PIPE @ 0.40% RIM=802.44 INV IN (15"~S)=798.58 INV OUT (15"~S)=798.58
STR. NO. 22 INSTALL MODIFIED TYPE 'C' MANHOLE FOR ISOLATOR ROW WQ BYPASS WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND 4 LFT OF 12"ø HDPE PIPE @ 0.50% RIM=802.23 INV IN (18"~W)=798.51 INV OUT (12"~E)=798.51 INV OUT (18"~N)=798.28

STORM SEWER STRUCTURE TABLE
STR. DATA
STR. NO. 23 INSTALL MODIFIED TYPE 'J' MANHOLE FOR DETENTION OUTLET CONTROL STRUCTURE WITH NEENAH R-1772 CASTING OR APPROVED EQUAL AND 96 LFT OF 12"ø RCP @ 1.50% RIM=803.25 INV IN (12"~W)=798.49 INV IN (12"~N)=798.49 INV IN (12"~S)=798.49 INV IN (4"~SW)=797.91 INV IN (4"~NW)=797.91 INV OUT (12"~E)=797.91
STR. NO. 24 MECHANICALLY CORE EXISTING INLET AND CONNECT PIPE FROM STR. NO. 23 RIM=799.03 INV IN (12"~W)=796.47 INV IN (12"~N)=796.47 INV OUT (18"~S)=796.47

NOTE: STR. NO. 22 SHALL HAVE A 24" SUMP AND STR. NO. 23 SHALL HAVE A 12" SUMP.

NOTE: RCP FOR STR. NO. 15, 16, 17, 18, 19, 20, AND 23 SHALL BE CLASS IV. ALL OTHER RCP SHALL BE CLASS III.

DENOTES APPROXIMATE LIMITS OF GRANULAR BACKFILL TO BE COMPACTED TO 95% PROCTOR DENSITY IN 6" MAX LIFTS

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

NOTE:
ALL PLAN AND PROFILES ON THIS SHEET ARE LOCATED IN PARKING LOT 'A'

INDIANA Know what's below. Call before you dig. 811

20 0 20 40
SCALE: 1" = 20'

DIRECTORY PATH : P:\Active\Larson-Reske\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 701 STORM PLAN AND PROFILE.dwg
DATE/USER : 3/23/2023 4:02 PM / KTopp

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 701

STORM PLAN AND PROFILE

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	GJI
DATE	FEBRUARY 27, 2023	DESIGNED	DMS	DMS	DMS	BY	APPR.

REVISIONS

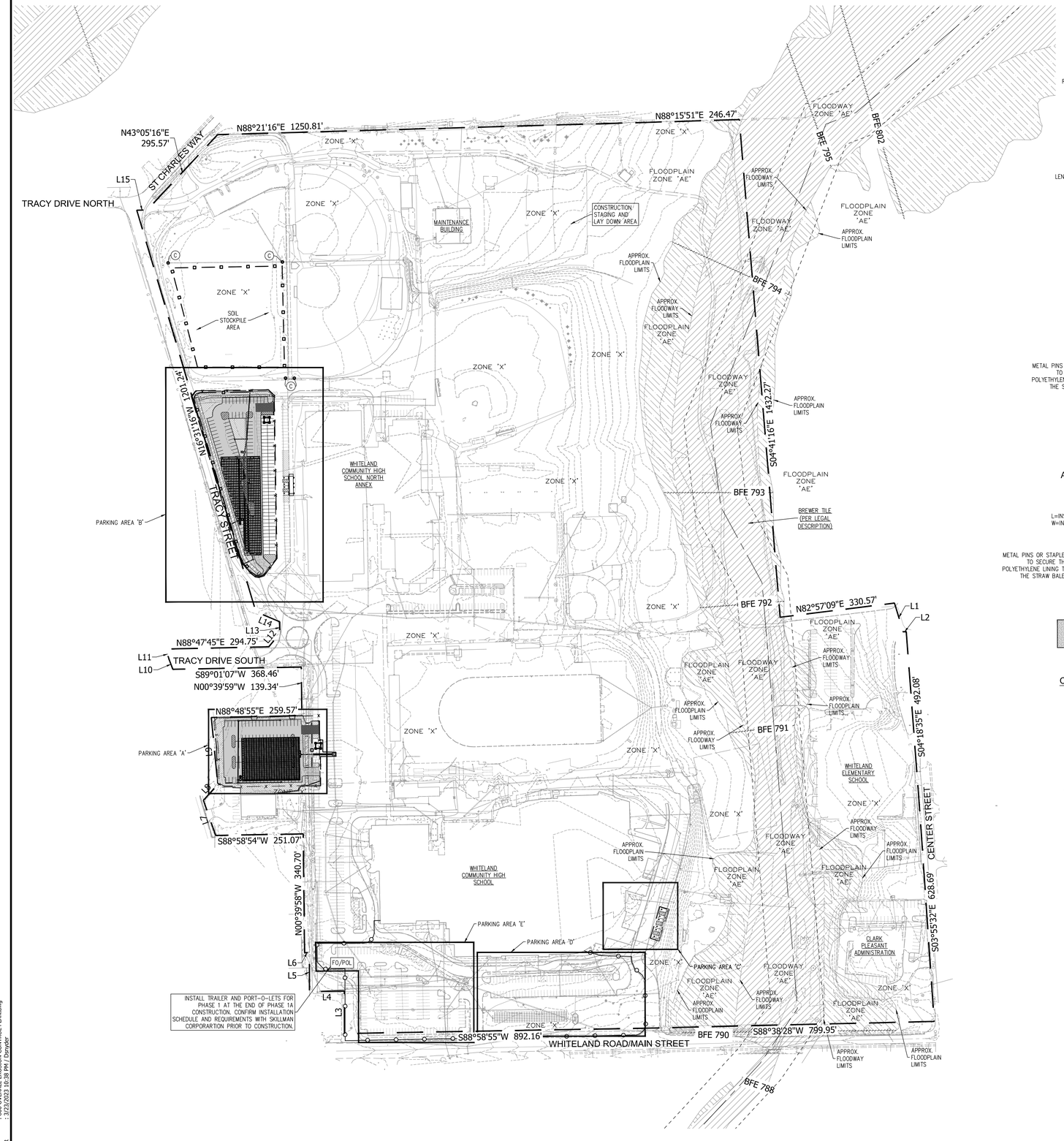
NO.	DATE	BY	APPR.
1	03.03.23	DMS	GJI
2	03.24.23	DMS	GJI
3			
4			
5			
6			
7			
8			
9			

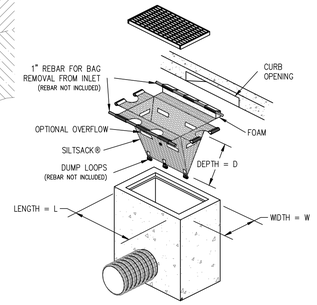
2 - ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW

REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)

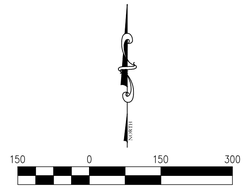
DEREK M. SNYDER REGISTERED NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET 701



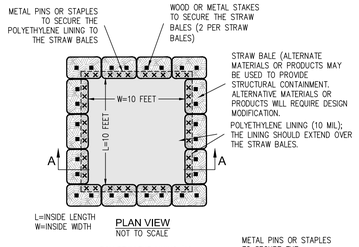


SILTSACK INLET FILTER DETAIL (A)
NOT TO SCALE

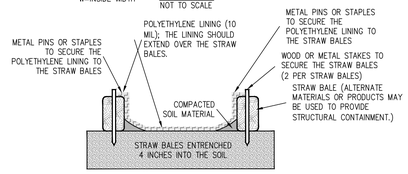


EROSION CONTROL LEGEND

- MULCHED SEEDING
- TEMPORARY CONSTRUCTION ENTRANCE (SEE DETAIL-SHEET 801)
- 800 — EXISTING CONTOURS
- 800 — PROPOSED CONTOURS
- SILT FENCE SLOPE CHECK (NUTEC 3 NWS-6 OR APPROVED EQUAL)
- CONSTRUCTION LIMITS
- (A) CURB INLET PROTECTION (SEE DETAIL-SHEET 800)
- (B) CONCRETE WASHOUT AREA (SEE DETAIL-SHEET 800)
- (C) FABRIC DROP INLET PROTECTION (SEE DETAIL-SHEET 800)



PLAN VIEW
NOT TO SCALE

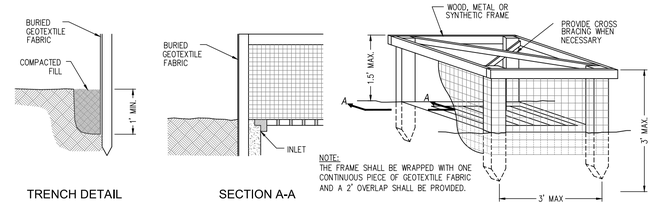


SECTION A-A
NOT TO SCALE

CONCRETE WASHOUT DETAIL (B)
NOT TO SCALE

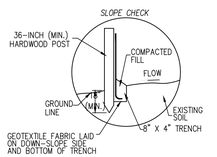
EROSION CONTROL NOTES

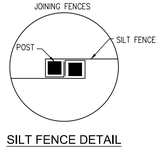
1. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, COUNTY, OR LOCAL OFFICIALS.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
3. THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIALS WITHIN EXISTING OR PROPOSED PARKING AREAS OR PUBLIC RIGHT-OF-WAY.
4. CONSTRUCTION STAGING AREA (TO BE DETERMINED BY CONTRACTOR) SHALL INCLUDE THE NOI POSTING, PORT-O-LETS, TRASH CONTAINERS, AND FUELING TANKS. CONTRACTOR SHALL NOT LOCATE STAGING AREA WITHIN PROPOSED PARKING LOTS.
5. A TRAINED INDIVIDUAL MUST PERFORM AN INSPECTION ONCE A WEEK AND AFTER EVERY ½" OR MORE RAIN EVENT. A LOG OF THE INSPECTION REPORTS MUST BE KEPT AND MADE AVAILABLE TO THE TOWN INSPECTOR UPON REQUEST.



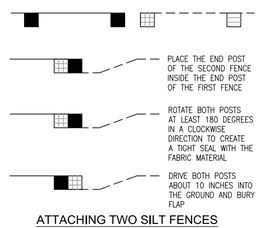
NOTE:
THE FRAME SHALL BE WRAPPED WITH ONE CONTINUOUS PIECE OF GEOTEXTILE FABRIC AND A 2' OVERLAP SHALL BE PROVIDED.

FABRIC DROP INLET PROTECTION DETAIL (C)
NOT TO SCALE





SILT FENCE DETAIL
NOT TO SCALE



ATTACHING TWO SILT FENCES

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

Know what's below. Call before you dig. INDIANA 811

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

OVERALL EROSION CONTROL PLAN
WHITELAND HIGH SCHOOL PHASE 1A

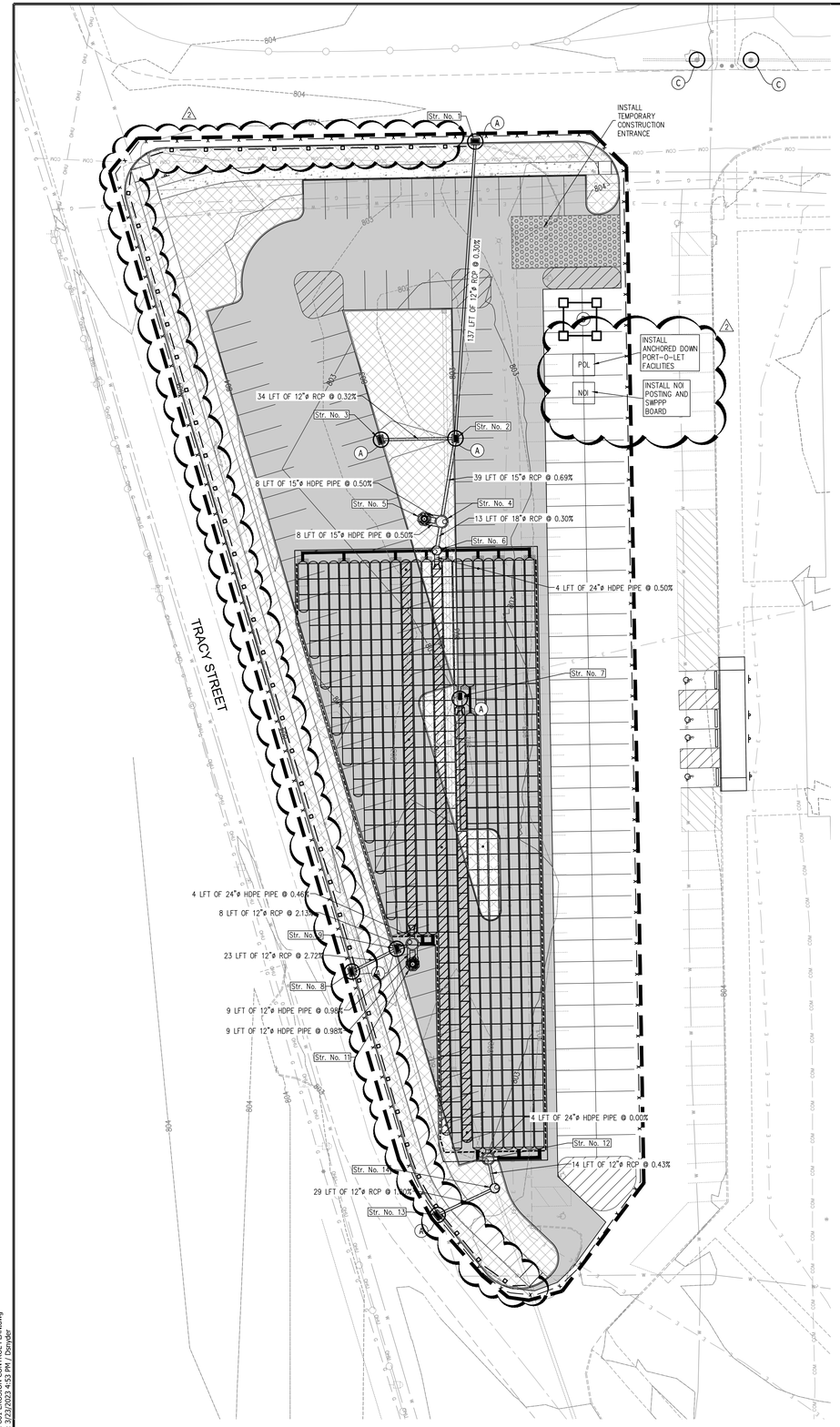
JOB No. . | DRAWN KLF | CHECKED TEN | SHEET 800
DATE FEBRUARY 27, 2023 | DESIGNED DMS | APPR. CJI

DEREK M. SNYDER NO. 11200008 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

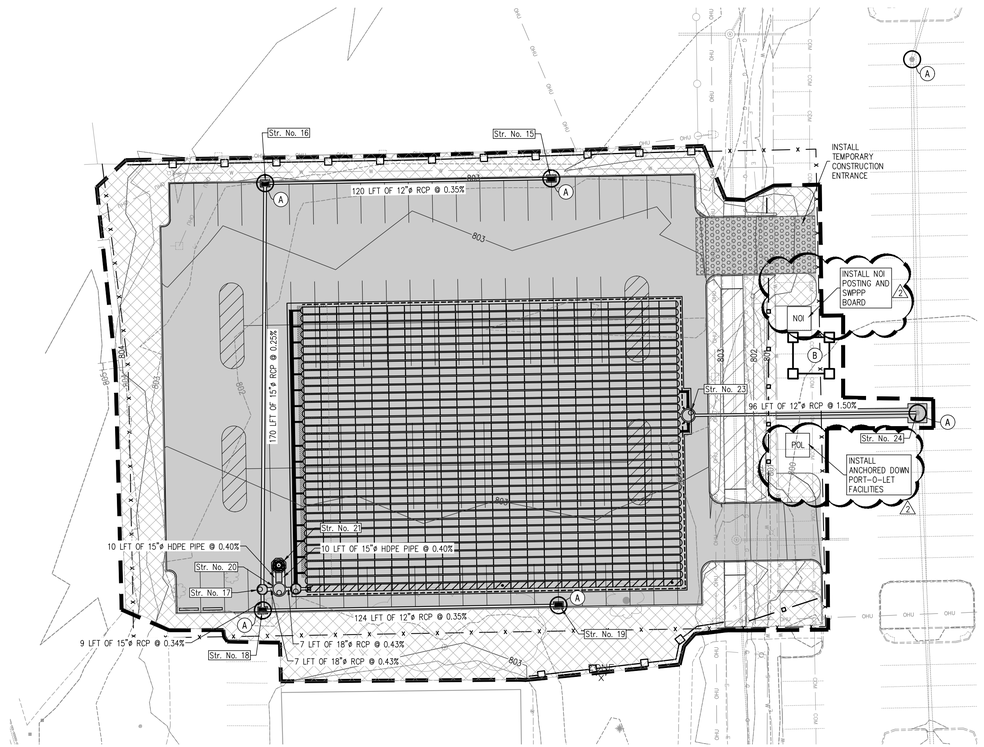
NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	CJI
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & OBEE REVIEW	DMS	CJI

SHEET 800

DIRECTORY PATH : R:\Active\Lyndex-Bardel\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 800 OVERALL EROSION CONTROL PLAN.dwg
DATE/USER : 3/23/2023 10:38 PM / Dsnyder



PARKING AREA 'B'



PARKING AREA 'A'

PARKING AREA 'C'

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, CITY OR COUNTY OFFICIALS

NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

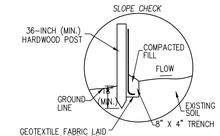
INDIANA 811 Know what's below. Call before you dig

NORTH

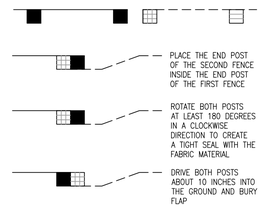
30 0 30 60

SCALE: 1" = 30'

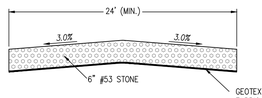
EXISTING CONTOUR INTERVAL = 1'
PROPOSED CONTOUR INTERVAL = 1'



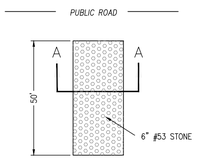
SILT FENCE DETAIL
NOT TO SCALE



ATTACHING TWO SILT FENCES



SECTION A-A



TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

EROSION CONTROL LEGEND

- MULCHED SEEDING
- TEMPORARY CONSTRUCTION ENTRANCE (SEE DETAIL-SHEET 801)
- 800 — EXISTING CONTOURS
- 800 — PROPOSED CONTOURS
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- CONSTRUCTION LIMITS
- (A) CURB INLET PROTECTION (SEE DETAIL-SHEET 800)
- (B) CONCRETE WASHOUT AREA (SEE DETAIL-SHEET 800)
- (C) FABRIC DROP INLET PROTECTION (SEE DETAIL-SHEET 800)

EROSION CONTROL NOTES

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CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 801

EROSION CONTROL PLAN

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	CHECKED	TEN
DRAWN	KLF	APPR.	CJI
DESIGNED	DMS		
DATE	FEBRUARY 27, 2023		

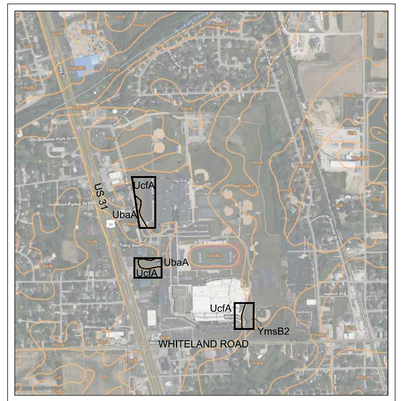
REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

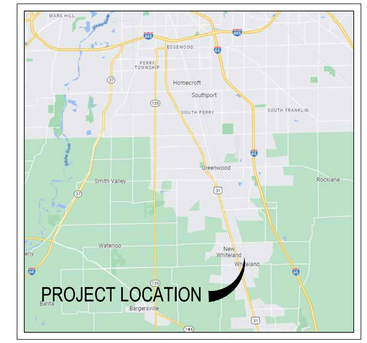
Derek M. Snyder

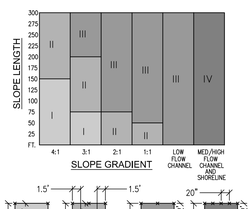
NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	CJI
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	CJI
3				
4				
5				
6				
7				
8				
9				

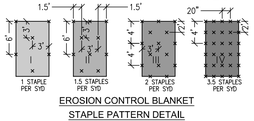
SHEET 801

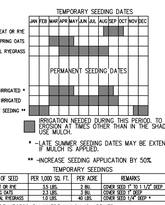
DIRECTORY PATH : R:\Active\Lawson-Riedel\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 801 EROSION CONTROL PLAN.dwg
DATE/USER : 3/23/2023 4:53 PM / Dsnyder











EROSION CONTROL PLAN INDEX

PLAN ELEMENTS

A1

RULE 5 EROSION CONTROL PLAN INDEX

ELEMENT	SHEET	ELEMENT	SHEET	ELEMENT	SHEET	ELEMENT	SHEET
A4	802	A19	400	B4	801 & 802	B11	801 & 802
A5	802	A21	801	B5	801 & 802	B12	801 & 802
A6	801	A22	801	B6	801 & 802	B13	802
A15	801	A23	801	B7	801 & 802	B14	802
A16	801	B2	802	B9	801 & 802		
A18	802	B3	802	B10	801 & 802		

A2 VICINITY MAP
A vicinity map depicting the project site location is located in right half of the Stormwater Pollution Prevention Plan.

A3 PROJECT NARRATIVE
The project involves the construction of two new parking lots on the Whiteland Community High School campus. The project is located along the west side of said campus located at 300 Main Street in Whiteland, Indiana. Curbs, parking lots, and walks necessary for the development shall be constructed as part of the construction plans herein. A storm sewer system shall be utilized for stormwater collection. Drainage will discharge into the existing storm sewer system located onsite which ultimately drains into the Brewer Legal Drain located in the eastern portion of the site.. Construction is anticipated to begin in June 2023.

A4 LATITUDE & LONGITUDE
Latitude N 39°33'11" Longitude W 86°05'11"

A5 LEGAL DESCRIPTION
The Legal Description of the project site is located in the lower right quadrant of the Stormwater Pollution Prevention Plan.

A6 11 BY 17 INCH PLAT
The 11x17 inch Plat has been submitted to the respective Soils and Water Conservation District.

A7 100 YEAR FLOOD PLAINS, FLOODWAYS AND FLOODWAY FRINGES
By graphic plotting only, this tract of land described hereon lies within the unshaded portion of Zone 'X' (areas outside the 0.2% annual chance floodplain), Floodplain Zone 'X' (areas of 0.2% annual chance flood), Floodplain Zone 'AE' (area of 1% annual chance flood with established base flood elevations), and Floodway Zone 'AE' and is in a Special Flood Hazard Area as plotted on the Federal Emergency Management Agency Flood Insurance Rate Map for Johnson County, Indiana, Community Panel No. 18081C0137D, which bears an effective date of 08/02/2007.

A8 ADJACENT LAND USE
The adjacent land uses are labeled commercial (west) and residential (north, south, and east).

A9 DESCRIPTION OF TOTAL MAXIMUM DAILY LOAD (TMDL) REPORT
Not applicable to this project/watershed/receiving waters.

A10 RECEIVING WATERS
The receiving water for this project is Brewer Ditch via the existing onsite storm sewer system..

A11 DESCRIPTION OF 303(d) LIST
Not applicable to this project/watershed/receiving waters.

A12 SOILS MAP AND DESCRIPTIONS
The soils map and all pertinent soil type information are located on the upper right quadrant of the Stormwater Pollution Prevention Plan (this sheet).

A13 WETLANDS, LAKES AND WATER COURSES.
There are no potential wetland areas located within the project site, nor shall any potential wetland areas be disturbed as a result of construction

A14 STATE AND/OR FEDERAL WATER QUALITY PERMITS
An IDEM Construction Stormwater General Permit (CSGP) is required. No other State of Federal water quality permits are required for this project.

A15 EXISTING VEGETATIVE COVER
The existing site consists of grass covered lots.

A16 EXISTING SITE TOPOGRAPHY
Existing one-foot contours are shown on the Erosion Control Plan (sheet 801).

A17 EXISTING RUN-OFF ENTRANCE AREA
Existing runoff sheet flows onto the project site via the existing parking lots and buildings adjacent to the site.

A18 EXISTING RUN-OFF DISCHARGE AREA
Existing runoff discharges from the project site via existing storm sewers.

A19 EXISTING STORMWATER SYSTEMS
The existing stormwater system sizes and dimensions are labeled on the Topographic Survey Plan (sheets 202-206).

A20 EXISTING RETENTION/DETENTION FACILITIES
There are no existing retention/detention facilities located within the limits of the proposed improvements. Existing underground detention systems are located throughout the high school campus outside the construction limits.

A21 POTENTIAL DISCHARGES TO GROUND WATER
There are no potential locations where stormwater may enter the groundwater.

A22 TOTAL PROJECT AREA
The total project area covers ±102.65 acres.

A23 EXPECTED DISTURBED AREA
The expected project land disturbance is ±5.00 acres.

A24 PROPOSED SITE TOPOGRAPHY
Proposed one-foot contours are shown on the Erosion Control Plan (sheet 801).

A25 DISTURBED AREAS
The construction limits (boundary of disturbed area) are shown on the Erosion Control Plan (sheet 801).

A26 PROPOSED STORMWATER SYSTEMS
The proposed stormwater system sizes and dimensions are labeled on the Erosion Control Plan (sheet 801).

A27 PROPOSED STORMWATER DISCHARGE
Stormwater discharge shall leave the site via a proposed underground detention system connecting to the existing private storm sewer system onsite.

A28 SITE IMPROVEMENTS
All site improvements are shown on the Erosion Control Plan (sheet 801).

A29 SOIL STOCKPILES, BORROW/DISPOSAL AREAS
Topsoil shall be stockpiled in a convenient location (as determined by the owner and/or contractor) within the construction site as shown on the Erosion Control Plan (sheet 801).

A30 CONSTRUCTION SUPPORT ACTIVITIES
The existing parking lot at the high school's maintenance building will be utilized as the field office, staging, and material storage area.

A31 IN-STREAM ACTIVITIES
No in-stream activities are associated with this project.

STORMWATER POLLUTION PREVENTION - DURING CONSTRUCTION

B1 POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES
There is a potential for pollutants associated with construction machinery including diesel fuel, hydraulic fluid, engine oils and lubricants, antifreeze and other petroleum products. It is unavoidable for a small amount of these pollutants to contaminate soil in the grading and construction of the site. Sediment pollution from site disturbing activities shall be remedied by Erosion Control measures (see following sections).

B2 CONSTRUCTION ENTRANCE
The construction entrances shall be constructed at the northeast corners of each parking lot as indicated on the Erosion Control Plan (sheet 801). Specifications and details are located on the Stormwater Pollution Prevention Plan.

B3 TEMPORARY & PERMANENT STABILIZATION
Temporary & Permanent surface stabilization methods are shown on the Erosion Control Plan and detailed on the Stormwater Pollution Prevention Plan.

B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS
No sediment control measures for concentrated flow are required for this project.

B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS
Sediment Control measures for Sheet flow areas are shown on the Erosion Control Plan (sheet 801). Specifications and details are located on the Stormwater Pollution Prevention Plan.

B6 RUNOFF CONTROL MEASURES
No runoff control measures are required for this project.

B7 STORMWATER OUTLET PROTECTION MEASURES
No stormwater outlet protection measures are required for this project.

B8 GRADE STABILIZATION STRUCTURES
No grade stabilization structures are required for this project.

B9 DEWATERING ACTIVITIES
If required during excavation operations, dewatering shall be completed as shown on the Erosion Control Plan. Specifications and details are located on the Erosion Control Plan and Stormwater Pollution Prevention Plan.

B10 WATERBODY QUALITY MEASURES
No waterbody quality measures are required for this project.

B11 MONITORING AND MAINTENANCE GUIDELINES
Monitoring and Maintenance Guidelines are located in the middle on the Stormwater Pollution Prevention Plan (this sheet).

B12 PLANNED CONSTRUCTION GUIDLINES
Planned Construction Sequence guidelines are located in the middle on the Stormwater Pollution Prevention Plan (this sheet).

B13 EROSION & SEDIMENT CONTROL MEASURES FOR INDIVIDUAL BUILDING LOTS
Not applicable, as this is to be developed as a single site.

B14 MATERIAL HANDLING AND SPILL PREVENTION
Spill prevention shall be accomplished by utilizing spillguards for equipment fueling and servicing operations. Spillguards shall be 3'x3'x6" and shall be constructed of a material resistant petroleum products (including diesel fuel and oil). On-site fuel storage tanks shall have emergency storage capacity directly below the tank in case of rupture. Any hazardous material spillage shall be collected and/or cleaned immediately by a trained individual and disposed of in accordance with all federal, state and local regulations.

Indiana Department of Environmental Management
Office of Emergency Response (317) 233-7745, Toll Free (800) 233-7745
Whiteland Fire Department (317) 535-8280
Additional Material Handling and Spill Prevention (this sheet)

B15 MATERIAL HANDLING AND STORAGE
Material Handling and Storage Procedure guidelines are located in the middle on the Stormwater Pollution Prevention Plan (this sheet).

STORMWATER POLLUTION PREVENTION - POST CONSTRUCTION

C1 PROPOSED POLLUTANTS AND SOURCES ASSOCIATED WITH PROPOSED LAND USE
Potential pollutants include petroleum products and antifreeze from automobiles using the parking areas and sediment.

C2 PROPOSED POST CONSTRUCTION STORMWATER MEASURES
Post construction stormwater quality measures shall consist of hydrodynamic separator units and isolator rows in the underground detention system.

C3 LOCATION, DIMENSIONS, SPECIFICATIONS AND DETAILS OF EACH STORMWATER QUALITY MEASURE
The locations of the hydrodynamic separator units and isolator rows in the underground detention system are shown on the construction plans.

C4 STORMWATER QUALITY MEASURE IMPLEMENTATION
Stormwater quality measures are implemented by construction of the site improvements which include hydrodynamic separator units and isolator rows for stormwater quality treatment.

C5 MAINTENANCE GUIDELINES OF POST CONSTRUCTION STORMWATER QUALITY MEASURES
All landscape areas shall be maintained by mowing, removing trash and debris, and re-planting any vegetated areas as necessary. The proposed storm sewer inlets shall be inspected for blockage of any type after each storm event. All obstructions, trash, and debris shall be removed upon inspection. Maintenance and inspection of hydrodynamic separator units and isolator rows shall be performed in accordance with the manufacturer's recommendation ands the Operations and Maintenance (O&M) Manual approved by the Town of Whiteland.

C6 PARTY RESPONSIBLE FOR POST-CONSTRUCTION STORMWATER POLLUTION PREVENTION
Owner: Clark Pleasant Community School Corporation
Operator: Clark Pleasant Community School Corporation

MONITORING AND MAINTENANCE GUIDELINES

GRAVEL CONSTRUCTION DRIVE AND PARKING AREA:
A. Inspect daily and after each storm event. Immediately remove mud and sediment tracked or washed onto public roads.
B. Top dress with clean aggregate as needed. Reshape pad as needed for drainage and runoff control.
C. Flushing should only be used if the water can be conveyed into a sediment trap or basin.

TOPSOIL:
A. Inspect daily until vegetation is established.
B. Check for erosion or damage of newly spread topsoil and repair immediately.

TEMPORARY AND PERMANENT SEEDING:
A. Inspect seeding within 24 hours of each rain event and at least once every seven calendar days until vegetation is established.
B. Check for erosion or movement of mulch and repair immediately.
C. Plan to add fertilizer the following growing season according to soil test recommendations.
D. Repair damaged, bare, or sparse areas by filling any gullies, re-fertilizing, over- or re-seeding, and mulching.
E. If plant cover is sparse or patchy, review the plant materials chosen, soil fertility, moisture condition, and mulching; repair the affected area either by over-seeding or by re-seeding and mulching after re-preparing the seed bed.
F. If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems.
G. If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.
H. Reference INDOT Specification 621.05.

MULCHING:
A. Inspect within 24 hours of each rain event to check for movement of mulch or for erosion.
B. If washout, breakage, or erosion is present, repair damage areas, re-seed, apply new mulch, and anchor mulch in place.
C. Continue inspections until vegetation is firmly established.
D. Reference INDOT Specification 621.05.

SILT FENCE:
A. Inspect within 24 hours of each rain event and at least once every seven calendar days.
B. If fence fabric tears, starts to decompose, or in any way becomes ineffective, replace the affected portion immediately.
C. Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
D. Take care to avoid undermining the fence during clean out.
E. After the contributing drainage area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade and stabilize.

SILT SACK INLET PROTECTION:
A. Inspect the silt sack inlet protection periodically and after each ½" storm event.
B. Remove deposited sediment when it reaches half the height of the filter at the lowest point.
C. Remove the Silt Sack Inlet Protection and sediment deposits after contributing drainage area is stabilized.

FABRIC DROP INLET PROTECTION:
A. Inspect the fabric barrier after storm events, and make needed repairs immediately.
B. Remove sediment from the pool area to provide storage for the next storm. Avoid damaging or undercutting the fabric during sediment removal.
C. When the contributing drainage area has been stabilized, remove and properly dispose of all construction material and sediment, grade the area to the elevation of the top of the inlet, then stabilize.

CONCRETE WASHOUT:
A. Concrete washout area shall be installed prior to any concrete placement on site.
B. Signs shall be placed at the construction entrance, at the washout area, and elsewhere as necessary to clearly indicate the location of the concrete washout area to operators of concrete trucks and pump rigs.
C. The concrete washout area shall be repaired and enlarged or cleaned out as necessary to maintain capacity for wasted concrete.
D. At the end of construction, all concrete shall be removed from the site and disposed of at an approved waste site.
E. When the concrete washout area is removed, the disturbed area shall be seeded and mulched or otherwise stabilized in a manner approved by the inspector.

CONSTRUCTION SEQUENCE & SCHEDULE OF EROSION CONTROL IMPLEMENTATION

1. Notify the Town of Whiteland (317-530-9233) at least 48 hours prior to starting construction.
2. Install silt fence per the Erosion Control Plan (sheet 801) before any land disturbing activity begins. Begin removal operations.
3. Install temporary construction entrances per Erosion Control Plan (sheet 801). The construction entrances shall remain in place until the completion of all earthwork operations. The concrete washout areas shall remain in place until the completion of all concrete placement.
4. Install concrete washouts per Erosion Control Plan (sheet 801). Concrete washouts shall remain in place until all concrete work is complete.
5. Strip topsoil within construction limits and stockpile within the project limits shown on the Erosion Control Plan (sheet 801).
6. Begin earthwork operations.
7. Areas that will not be disturbed again shall be permanently seeded immediately after rough grading. Temporary seed areas left undisturbed for more than fourteen days. No unvegetated areas should be exposed for more than fourteen days.
8. Install the underground detention and storm sewer structures upon completion of the earthwork operations. Storm sewer shall only be install when all earthwork fill operations are complete and compaction requirements are met. Silt sack and drop inlet protection measures shall be placed around new structures as soon as they are in place and until vegetation is secure.
9. Construct parking lots, curbs, sidewalks and other site improvements.
10. Remove concrete washout areas upon completion of concrete placement. Remove and dispose of all trash from the site. Remove accumulated sediment from the site and incorporate into the topsoil stockpile.
11. Final grade site utilizing stockpiled topsoil and install all permanent surface stabilization features including seeding, erosion control blankets, sod, and plantings. All erosion control blankets shall be installed per manufacturers recommendations as soon as final grading is complete. Install permanent erosion control measures as soon as final grading is complete.
12. Final paving operations. All temporary erosion control measures, except those specified for removal in the sequences above, shall remain in place until vegetation is secure.

GENERAL EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH IDEM GENERAL PERMIT RULES FOR STORM WATER RUNOFF FROM CONSTRUCTION SITES

1. All Erosion Control practices shall be in accordance with the latest edition of the INDIANA STORM WATER QUALITY MANUAL.
2. The Erosion Control measures included in this plan shall be installed prior to initial land disturbance activities or as soon as practical. Sediment shall be prevented from discharging from the project site by installing and maintaining silt fence, straw bales, sediment basins, etc. As shown on this plan. If shown on this plan, energy-dissipation devices or Erosion Control at the outfall of the storm sewer system shall be installed at the time of the construction of the outfall.
3. All on-site storm drain inlets shall be protected against sedimentation with silt sack inlet filters, filter fabric, or equivalent barriers as shown on this plan.
4. Except as prevented by inclement weather conditions or other circumstances beyond the control of the contractor/developer appropriate Erosion Control practices will be initiated within (7) seven days of the last land disturbing activity at the site. The site shall be stabilized by seeding, sodding, mulching, covering, or by other equivalent Erosion Control measures.
5. This Erosion Control plan shall be implemented on all disturbed areas within the construction site. All measures involving Erosion Control practices shall be installed under the guidance of a qualified person experienced in Erosion Control and following the plans and specifications included herein.
6. During the period of construction activity, all sediment basins and other Erosion Control measures shall be maintained by the contractor. At the completion of construction, the contractor shall coordinate the transfer of required maintenance responsibilities with the owner.
7. Public or private roadways shall be kept cleared of accumulated sediment. Bulk clearing of accumulated sediment shall not include flushing the area with water. Cleared sediment shall be returned to the point of likely origin or other suitable location.
8. The contractor shall control wastes, garbage, debris, wastewater, and other substances on the site in such a way that they shall not be transported from the site by the action of winds, storm water runoff, or other forces. Proper disposal or management of all wastes and unused building materials appropriate to the nature of the waste or material is required.
9. Additional Erosion Control measures may be required by state or county agencies.

ADDITIONAL MATERIAL HANDLING AND SPILL PREVENTION PLAN

A. PURPOSE

The purpose of this plan is two fold:
1. To help protect the health and safety of those working on the site as well as the environment.
2. Preventing the contamination of storm water runoff. Pollutants generated onsite may include gasoline, diesel fuel, oils, grease, paints, pesticides, nutrients, concrete washout, soil, solvents, paper, plastic, Styrofoam, metals, glass and other forms of liquid or solid wastes.

This plan outlines procedures to help prevent health and safety issues, contamination of storm water by onsite pollutants, help prevent fuel and chemical spills and provide a response procedure should a spill occur.

B. PREVENTION AND READINESS

1. The contractor or responsible party will prepare a contact list in the event of a spill on the site. The contact list will have names and contact numbers. The contact list will specify first responders and a chain of command. Include information on what circumstances require the initiation of the contact list and chain of command.
2. The contractor/owner shall maintain a list of qualified contractors, Vac-trucks, tank pumpers and other equipment or businesses qualified to do clean-up operations. Absorbent materials and supplies need to be available onsite in sufficient quantities to address minor spills. All employees need to be educated on the proper application of the absorbent materials.
3. All maintenance and equipment operators must be aware and trained for prevention of spills. A continuing education program is required for new employees and emphasizing the importance to all employees.
4. All materials used in the course of a cleanup will be disposed in a manor approved by Indiana Department of Environmental Management.
5. Using water to flush spilled material will not be permitted unless authorized by a state, federal, or local agency. Tarps can be used to cover spilled material during rain events.

C. SPILL RESPONSE

Minor - Small spills that typically involve oil gasoline, paint, hydraulic fluid etc. Minor spills can be controlled by the first responder at the discovery of the spill.
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

Semi-significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be contained with a dry absorbent. Spills on clayey soils should be contained by constructing an earthen dike and should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if this spill could be a safety issue.
- Contact supervisors and designated inspectors immediately
- Contaminated solids to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals or has the potential for surface or groundwater pollution.
- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
- Immediately contact the local Fire Department at 911 to report any hazard material spill.
- Contact supervisors and designated inspectors immediately. Other county or municipal officials (list as needed) responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the Department of Environmental Management,
  Office of Emergency Response 1-888-233-7745. The following information should be noted for future
  reports to IDEM or the National Response Center.
  - o Name, address and phone number of person making the spill report
  - o The location of the spill
  - o The time of the spill
  - o Identification of the spilled substance
  - o Approximate quantity of the substance that has been spilled or may be further spilled
  - o The duration and source of the spill
  - o Name and location of the damaged waters
  - o Name of spill response organization
  - o What measures were taken in the spill response
  - o Other information that may be significant

Additional regulation or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by Emergency Response.

D. THE FOLLOWING PROCEDURES AND PRACTICES WILL HELP PREVENT UNNECESSARY SPILLS

I. Vehicle and Equipment Fueling

Description and Purpose:
- Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.

Limitations:
- Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling.

Implementation:
- Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate fueling area at a site.
- Discourage "topping-off" of fuel tanks.
- Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use.
- Drip pans or absorbent pads should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.
- Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.
- Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas.
- Train employees and subcontractors in proper fueling and cleanup procedures.
- Dedicated fueling areas should be protected from stormwater run-on and runoff, and should be located at least 50 feet away from the downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas.
- Protect fueling areas with berms and dikes to prevent run-on, runoff, and to contain spills.
- Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended.
- Federal, state, and local requirements should be observed for any stationary above ground storage tanks.

Inspection and Maintenance
- Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site.
- Keep ample supplies of spill cleanup materials onsite.
- Immediately clean up spills and properly dispose of contaminated soils.

II. Solid Waste Management

Description of Purpose:
- Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

Suitable Applications:
This BMP is suitable for construction sites where the following wastes are generated or stored:

- Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (rubble), and building construction.
- Packaging materials including wood, paper, and plastic.
- Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces, and masonry products.
- Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes,
- Construction waste including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts. Styrofoam and other materials send transport and package construction materials.

Implementation:
The following steps will help keep a clean site and reduce stormwater pollution:
- Select designated waste collection areas onsite.
- Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use.
- Inspect dumpsters for leaks and repair any dumpster that is not watertight.
- Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.
- Plan for additional containers and more frequent pickup during the demolition phase of construction.
- Collect site trash daily, especially during rainy and windy conditions.
- Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acid, pesticides, additives, curing compounds) are not disposed of in dumpsters designed for construction debris.
- Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor.
- Arrange for regular waste collection before containers overflow.
- Clean up immediately if a container does spill.
- Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas. Solid waste storage areas should be located in areas prone to flooding or ponding.
- Locate solid waste dumpster a minimum of 50' away from storm water inlets or other drainage facilities.
- Locate dumpster on stone or earth to minimize the potential for spills or leaks to drain immediately into a drainage facility.

Inspection and Maintenance:
- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.
- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur.
- Inspect construction waste are regularly.
- Arrange for regular waste collection.

III. Concrete Washout

The following steps will help reduce stormwater pollution from concrete wastes:
- Discuss the concrete management techniques described in the BMP (such as handling of concrete waste and washout) with the reddy-mix concrete supplier before any deliveries are made.
- Incorporate requirements for concrete waste management into material supplier and subcontractors' agreements.
- Store dry and wet materials under cover, away from drainage areas.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks offsite or in designed areas only.
- Do not wash concrete trucks into storm drains open ditches, streets, or streams.
- Do no allow excess concrete to be dumped onsite, except in designed areas.

For onsite washout:
- Locate washout areas at least 50 feet from storm drains, open ditches, or water bodies.
- Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.
- Avoid creating runoff by drinking water to a bermed or level area when washing concrete to remove fine particles and expose the aggregate.
- Do not wash sweepings form exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.

IV. Vehicle Maintenance Areas
Purpose- To prevent spills during the normal maintenance of construction machinery.

Implementation- Where and when feasible, maintenance shall be preformed offsite in covered facility with an impervious floor.
- Use a dedicated site for machinery maintenance
- Site the maintenance area at least 50 feet from storm water inlets or water bodies
- Maintain clean up materials close at hand. Utilize drip pans and absorbent pads to prevent oils from reaching the soil surface.
- Inspect equipment daily for leaks or worn hoses. Repair or replace to prevent onsite spills
- Properly dispose of all fluids removed or spilled from machinery.

V. Fluids, paints, solvents and other chemicals storage and use

Purpose- To prevent spills during the use and storage of the materials

Implementation-
- Store materials in there original containers
- Maintain safety data sheets on all products
- Store materials in a weather proof/vandal resistant locker or building
- Keep materials away from flammable sources
- Provide and read instructions for the proper use and storage of all materials
- For bulk material stored onsite, provide diking or double containment in case of leaks or failures.
- No washout of solvent from paint supplies should be done near or into a storm water inlet or other drainage facility.

VI. Disposal of sediment laden water

Purpose- To prevent the purposeful discharge of sediment laden water into waters of the United States.

Implementation-
- The sediment and any other pollutant from all pumping or dewatering operations that discharge into storm sewers, wetlands, drainage ways or water bodies must be removed from the water before it's discharged.
- A suitable practice is needed at the discharge to allow the suspended solids to be removed from the water column. Slow moving water and time are needed components for an effective practice. Mechanical filters and chemical flocculants can do an excellent job of removing the fine materials.
- Sediment removal pumping bags may be used at the outlet of a pump. The bags must be sized appropriately for the amount of flow. The practice needs to be installed on erosion resistant surfaces. The outlet of the pumping bag must be erosion resistant to prevent additional sedimentation.
- Pumping operations that are moving clean water through a site are not required to have a pumping bag or similar device at the outlet. The point of discharge should be protected to prevent soil erosion.

SLOPE GRADIENT

EROSION CONTROL BLANKET STAPLE PATTERN DETAIL

PERMANENT SEED MIXTURES

SPECIES	SEEDING RATE LBS/ACRE	SUITABLE pH	SITE SUITABILITY DROUGHTY	SITE SUITABILITY DRAINED	SITE SUITABILITY WET
LEVEL AND SLOPING, OPEN AREAS					
TALL FESCUE	35	5.5 - 8.3	2	1	2
TALL FESCUE RED CLOVER **	25 5	5.5 - 8.3		1	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	15 15	5.5 - 7.5	2	1	
STEEP BANKS AND CUTS					
TALL FESCUE KENTUCKY BLUEGRASS	15 25	5.8 - 7.5	2	1	2
TALL FESCUE EMERALD CROWNVETCH **	35 10	5.5 - 8.3	2	1	
LAWNS AND HIGH MAINTENANCE AREAS					
KENTUCKY BLUEGRASS CREEPING RED FESCUE	40 40	5.8 - 7.5	2	1	
PERENNIAL RYEGRASS (TURF TYPE)	170	5.0 - 7.5		1	
TALL FESCUE	170	5.5 - 8.3	2	1	2

1-PREFERRED 2-WILL TOLERATE ** - INOCULATE WITH SPECIFIC INOCULATES

	SOIL CONDITION WET	SOIL CONDITION NORM	SOIL CONDITION DRY	SHADE TOLERANCE	CLOSE MOWING TO 2-3 1/2 INCHES	TRAMPING TOLERANCE	FERTILITY NEEDS	WINTER HARDINESS	FLOODING TOLERANCE (DAYS)	MATURE HEIGHT (INCHES)	EMERGENCE TIME (DAYS)	SALT TOLERANCE GEN.	SALT TOLERANCE SOIL	SALT TOLERANCE SPRAY
CREEPING RED FESCUE FESTUCA RUBRA	2	1	2	1	1	1	MED.	1	20-25	12-18	7-21			S
KENTUCKY BLUEGRASS POA PROTINSIS	2	1	2	1	1	1	MED.	1	25-35	12-18	10-20			MT
TALL FESCUE FESTUCA L ARUNDINACEA	2	1	1	1	1	1	LOW	1	24-35	24-36	5-14		T	
PERENNIAL RYEGRASS LOLIUM PERENNE	2	1	2	–	1	2	MED-HIGH	2	15-20	12-18	5-10		MT	
CROWNVETCH CORANILLA VARIA	–	1	1	2	–	–	LOW	1	5-10	24	14-21	T		
RED CLOVER TRIFOLIUM PRATENSE	–	1	–	2	–	–	MED.	1	7-10	18	5-10	S	S	

RANKING
1 GOOD
2 MEDIUM
- NOT TOLERANT

SALT TOLERANCE (TO BOTH SOIL SALTS AND SPRAY)
T - TOLERANCE
MT - MEDIUM TOLERANCE
S - SLIGHT TOLERANCE

SEEDBED PREPARATION
APPLY LIME TO RAISE THE pH TO THE LEVEL NEEDED FOR SPECIES BEING SEEDED. APPLY 23 LBS. OF 12-12-12 ANALYSIS FERTILIZER (OR EQUIVALENT) PER 1,000 SQ. FT. (APPROXIMATELY 1,000 LBS. PER ACRE) OR FERTILIZE ACCORDING TO TEST. APPLICATION OF 150 LBS. OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH. WORK THE FERTILIZER AND LIME INTO THE SOIL A DEPTH OF 2 TO 3 INCHES WITH A HARROW, DISK, OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE. FERTILIZER AND LIME SHALL MEET REQUIREMENTS OF INDOT STANDARD SPECIFICATIONS 1995.

SEEDING
SELECT A SEED MIXTURE BASED ON PROJECTED USE OF THE AREA WHILE CONSIDERING BEST SEEDING DATES.

TEMPORARY SEEDING DATES

IRRIGATION NEEDED DURING THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS, USE MULCH.

* -LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.

** -INCREASE SEEDING APPLICATION BY 50%.

TEMPORARY SEEDINGS

KIND OF SEED	PER 1,000 SQ. FT.	PER ACRE	REMARKS
WHEAT OR RYE	3.5 LBS.	2 BU.	COVER SEED 1" TO 1 1/2" DEEP
SPRING OATS	2.3 LBS.	3 BU.	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1.0 LBS.	40 LBS.	COVER SEED 1/4" DEEP *

* NOT NECESSARY WHERE MULCH IS APPLIED.

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE OR COUNTY OFFICIALS

Johnson County, Indiana (IN081)

URBAN LAND-BROOKSTON COMPLEX (UbaA)
This nearly level mapping unit is on smooth upland flats and in depressions and drainageways. Slopes are 0 to 2 percent. Runoff is generally rapid on the Urban land and slow on the Brookston soils.

URBAN LAND-CROSBY SILT LOAM COMPLEX (UcfA)
This nearly level mapping unit is on recessional moraines, ground moraines, and water-lain moraines. Slopes are 0 to 2 percent. Runoff is medium. Wetness and slow permeability the Crosby soils have severe limitations for most non-farm uses.

MIAMI SILT LOAM-URBAN LAND COMPLEX (YmsB2)
This gently sloping soil is along till plains. Slopes are 2 to 6 percent. Runoff is high. Moderately well drained.

SOIL MAP AND DESCRIPTION
NOT TO SCALE

VICINITY MAP
NOT TO SCALE

DEREK M. SNYDER
NO. 11200008
STATE OF INDIANA
REGISTERED PROFESSIONAL ENGINEER

CROSSROAD ENGINEERS PC
Transportation & Development Consultants

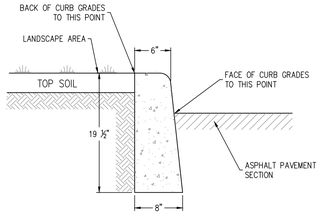
STORMWATER POLLUTION PREVENTION PLAN
WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	DRAWN	CHECKED
	KLF	TEN
DATE	DESIGNED	APPR.
FEBRUARY 27, 2023	DMS	GJI

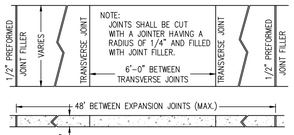
NO.	DATE	REVISIONS	BY	APPR.
2	03.24.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI

SHEET 802

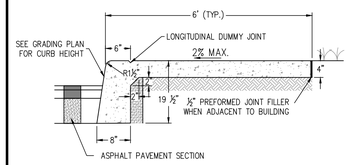
DIRECTORY PATH : R:\Active\Lancer+Beebe\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 802 STORMWATER POLLUTION PREVENTION PLAN.dwg
DATE/USER : 3/23/2023 4:02 PM / Kfigg



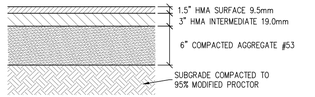
STRAIGHT CONCRETE CURB (C)
NOT TO SCALE



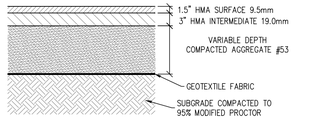
CONCRETE SIDEWALK (D)
NOT TO SCALE



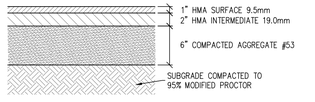
MONOLITHIC CONCRETE CURB AND SIDEWALK (D1)
NOT TO SCALE



TYPICAL SECTION
LIGHT DUTY ASPHALT PAVEMENT (K)
NOT TO SCALE

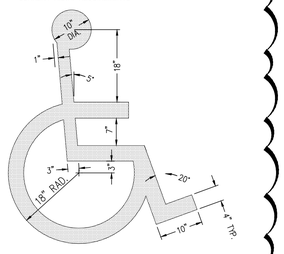


TYPICAL SECTION - LIGHT DUTY
ASPHALT PAVEMENT OVER DETENTION (K1)
NOT TO SCALE

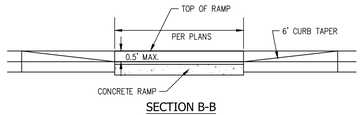


TYPICAL SECTION - ASPHALT PATH (P)
NOT TO SCALE

2
NOTES:
1. ALL MARKINGS TO BE 4 INCHES, SOLID BLUE
2. THE A.D.A. PARKING SYMBOL SHALL MEET CURRENT A.D.A. REQUIREMENTS

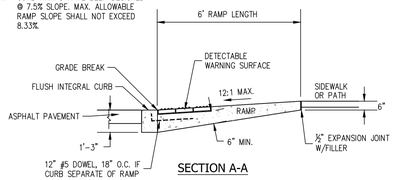


PAVEMENT MESSAGE MARKING
A.D.A. SYMBOL (3)
NOT TO SCALE

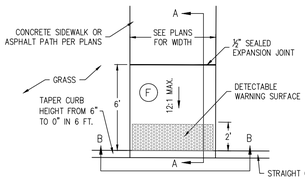


SECTION B-B

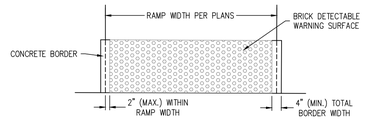
GENERAL NOTES:
1. CURB RAMPS HAVE BEEN DESIGNED @ 7.5% SLOPE. MAX. ALLOWABLE RAMP SLOPE SHALL NOT EXCEED 8.33%



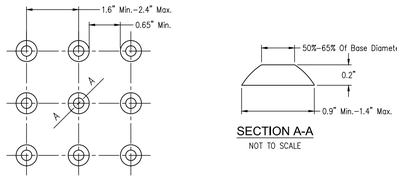
SECTION A-A



PERPENDICULAR CURB RAMP (F)
NOT TO SCALE



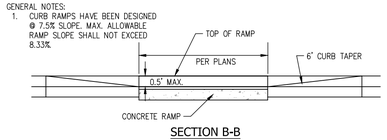
BRICK DETECTABLE WARNING SURFACE W/CONCRETE BORDER
NOT TO SCALE



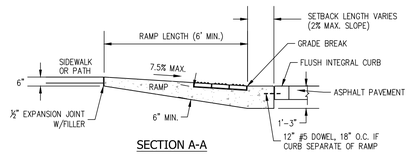
SECTION A-A
NOT TO SCALE

DETECTABLE WARNING ELEMENT - TRUNCATED DOMES
NOT TO SCALE

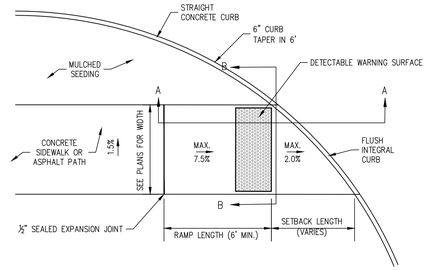
GENERAL NOTES:
1. CURB RAMPS HAVE BEEN DESIGNED @ 7.5% SLOPE. MAX. ALLOWABLE RAMP SLOPE SHALL NOT EXCEED 8.33%



SECTION B-B



SECTION A-A

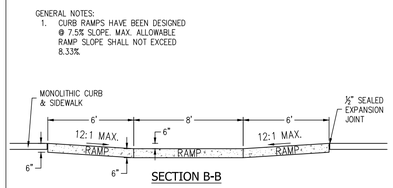


ONE-WAY DIRECTIONAL CURB RAMP (F)
NOT TO SCALE

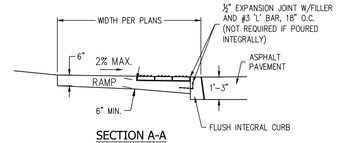
* TO BE USED WHEN CLEAR DISTANCE BETWEEN PIPES IS 18" OR LESS, OR WHERE NOTED ON THE DRAWINGS.

CONCRETE CRADLE DETAIL
NOT TO SCALE

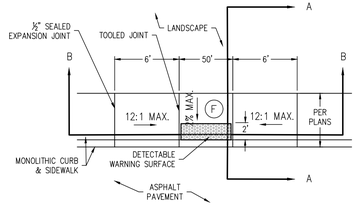
GENERAL NOTES:
1. CURB RAMPS HAVE BEEN DESIGNED @ 7.5% SLOPE. MAX. ALLOWABLE RAMP SLOPE SHALL NOT EXCEED 8.33%



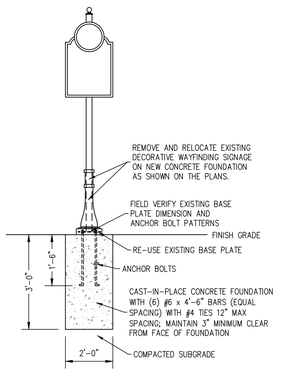
SECTION B-B



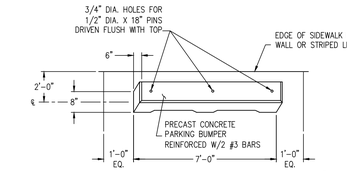
SECTION A-A



PARALLEL CURB RAMP (F)
NOT TO SCALE

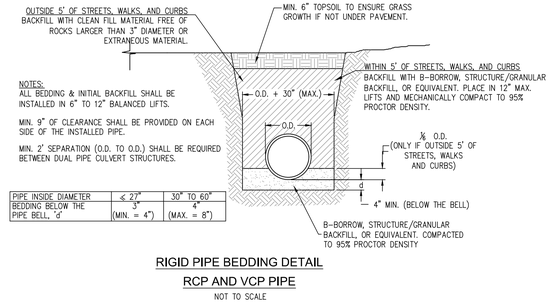


WAYFINDING SIGNAGE FOUNDATION
NOT TO SCALE



NOTE:
PARKING BARRIERS SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS. THE BARRIERS SHALL BE CAST AND TESTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF 615.03 OF THE INDOT STANDARD SPECIFICATIONS EXCEPT THE STRENGTH SHALL BE DETERMINED BY CONCRETE CORES TAKEN FROM THE FINISHED PRODUCT. AT LEAST 2 CONCRETE CORES WILL BE TAKEN FROM EACH UNIT AND THE AVERAGE STRENGTH OF THE UNIT SHALL BE AT LEAST 28 MPa (4000 PSI) WITH NO INDIVIDUAL CORE STRENGTH LESS THAN 25 MPa (3600 PSI).

CONCRETE WHEEL STOP (L)
NOT TO SCALE



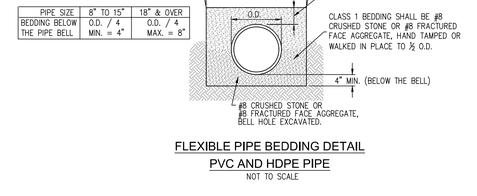
NOTES:
ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.

MIN. 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

MIN. 2' SEPARATION (O.D. TO O.D.) SHALL BE REQUIRED BETWEEN DUAL PIPE CULVERT STRUCTURES.

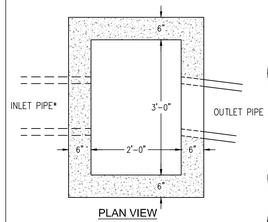
PIPE INSIDE DIAMETER	≤ 27"	30" TO 60"
BEDDING BELOW THE PIPE BELL, "d"	3" (MIN. = 4")	4" (MAX. = 8")

RIGID PIPE BEDDING DETAIL
RCP AND VCP PIPE
NOT TO SCALE

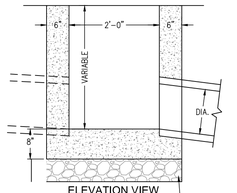


PIPE SIZE	8" TO 15"	18" & OVER
BEDDING BELOW THE PIPE BELL	O.D. / 4 MIN. = 4"	O.D. / 4 MAX. = 8"

FLEXIBLE PIPE BEDDING DETAIL
PVC AND HDPE PIPE
NOT TO SCALE



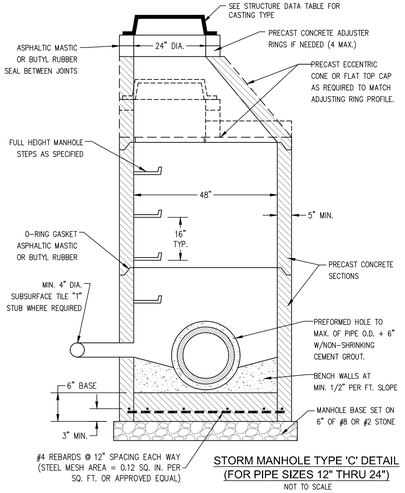
PLAN VIEW



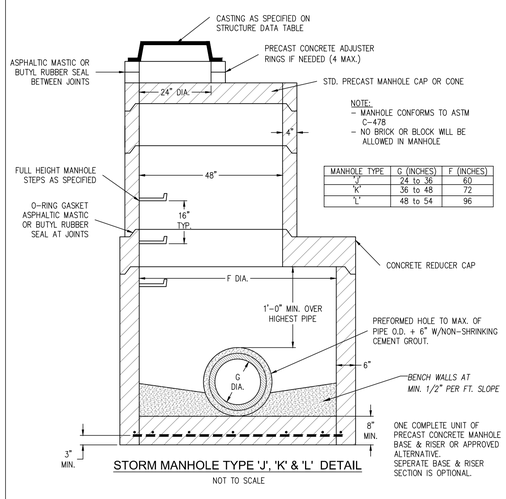
ELEVATION VIEW
INLET TYPE 'J'/'M'
NOT TO SCALE

6" of #8 or #2 STONE

*NOTE: ONLY TYPE 'M' INLETS INCLUDE INLET PIPES.

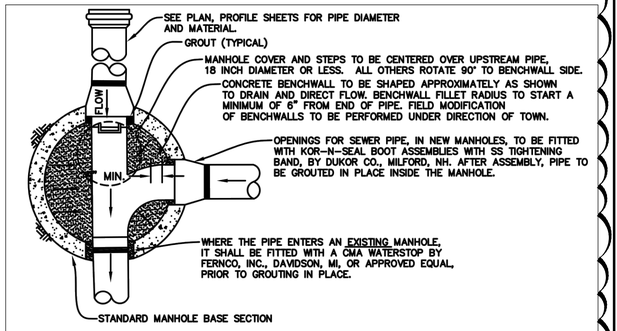


STORM MANHOLE TYPE 'C' DETAIL
(FOR PIPE SIZES 12" THRU 24")
NOT TO SCALE



MANHOLE TYPE	G (INCHES)	F (INCHES)
"J"	24 to 36	60
"K"	36 to 48	72
"L"	48 to 54	96

STORM MANHOLE TYPE 'J', 'K' & 'L' DETAIL
NOT TO SCALE

2


1 STANDARD SANITARY MANHOLE PLAN
NOT TO SCALE

DIRECTORY PATH : R:\Active\Lenox-Reeb\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 900 MISCELLANEOUS DETAILS.dwg
DATE/USER : 3/23/2023 4:08 PM / Kfrey

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
115 N. 17th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 900

MISCELLANEOUS DETAILS

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	SHEET	900
DATE	FEBRUARY 27, 2023	DESIGNED	DMS	APPR.	CJI		

REGISTERED DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL ENGINEER

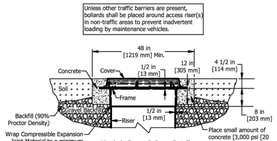
NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	CJI
2	03.24.23	ADDENDUM 2–REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	CJI
3				
4				
5				
6				
7				
8				
9				

SHEET 900

Aqua-Swirl® Polymer Coated Steel (PCS)
Stormwater Treatment System

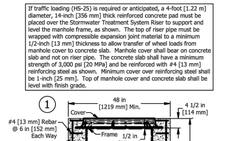
Projected View
SCALE 1:80

Unless other traffic barriers are present, bollards shall be placed around access riser(s) in non-traffic areas to prevent inadvertent loading by maintenance vehicles.



Manhole Frame & Cover Detail
For Non-Traffic Areas Only
NTS

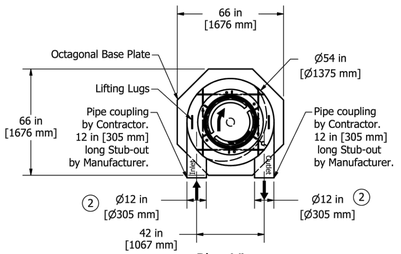
If traffic loading (HS-25) is required or anticipated, a 4-foot [1.22 m] diameter, 14-inch [356 mm] thick reinforced concrete pad must be placed over the Stormwater Treatment System Riser to support and level the manhole frame, as shown. The top of riser pipe must be wrapped with compressible expansion joint material to a minimum 1/2-inch [13 mm] thickness to allow transfer of wheel loads from manhole cover to concrete slab. Manhole cover shall bear on concrete slab and not on riser pipe. The concrete slab shall have a minimum strength of 3,000 psi [20 MPa] and be reinforced with #4 [13 mm] reinforcing steel as shown. Minimum cover over reinforcing steel shall be 1-inch [25 mm]. Top of manhole cover and concrete slab shall be level with finish grade.



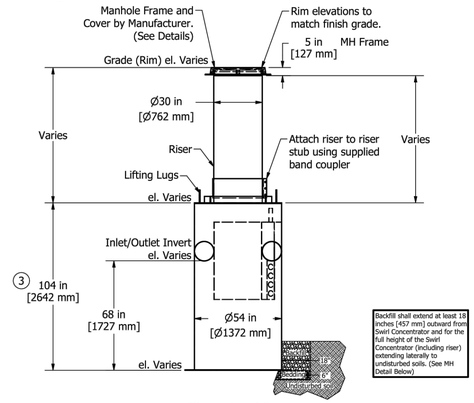
Manhole Frame & Cover Detail
For Traffic Loading Areas
NTS

Please see accompanied Aqua-Swirl® specification notes. See Site Plan for actual system orientation. Approximate dry (pick) weight: 2000 lbs [900 kg].

1. As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.
2. AS-4 inlet/outlet pipe size ranges from 4 in [102 mm] to 12 in [305 mm].
3. AS-4 chamber height may vary from 84 in [2134 mm] to 104 in [2642 mm], depending on inlet/outlet pipe size.



Plan View
SCALE 1:40



Elevation View
SCALE 1:40

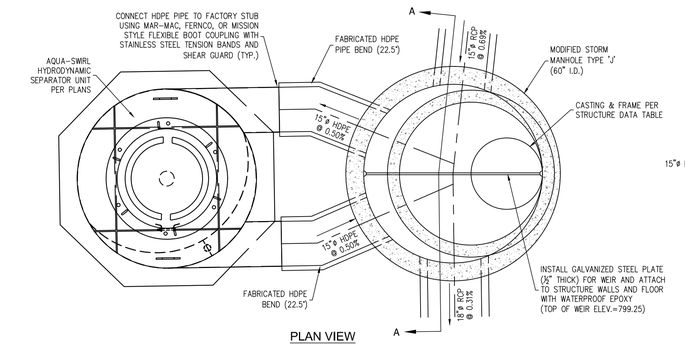
AquaShield
WATER TREATMENT SOLUTIONS
2733 Kanasita Drive, Suite 111, Chattanooga, TN 37343
Phone (888) 344-9044 Fax (423) 826-2112
www.aquashieldinc.com

Aqua-Swirl® Concentrator
AS-4 HorseShoe CW

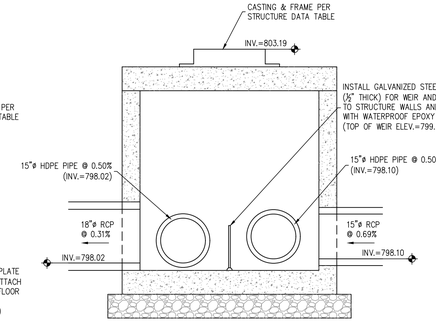
Standard Detail

Structure #:	AS-4 STD	Rvwed	Rvw. Date
Drawn By:	DHarris		
Scale:	As Shown		
Date:	2/25/2021		

U.S. Patent No. 6524473 and other Patent Pending

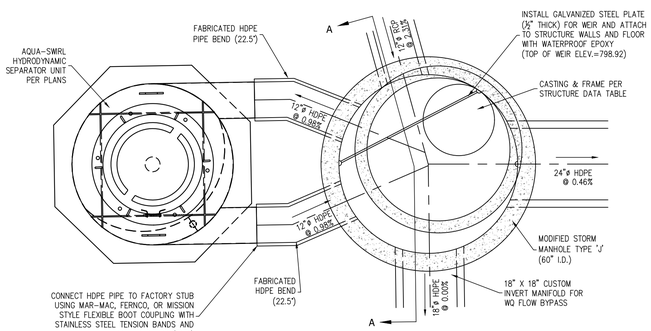


PLAN VIEW

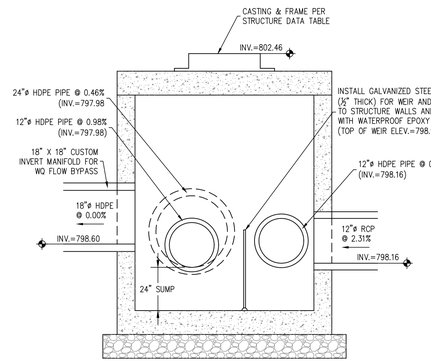


ELEVATION VIEW 'A-A'

DIVERSION STRUCTURE DETAIL
STR. NO. 4
NOT TO SCALE



PLAN VIEW



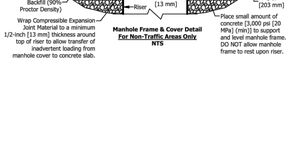
ELEVATION VIEW 'A-A'

DIVERSION STRUCTURE DETAIL
STR. NO. 10
NOT TO SCALE

Aqua-Swirl® Polymer Coated Steel (PCS)
Stormwater Treatment System

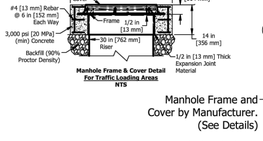
Projected View
SCALE 1:80

Unless other traffic barriers are present, bollards shall be placed around access riser(s) in non-traffic areas to prevent inadvertent loading by maintenance vehicles.



Manhole Frame & Cover Detail
For Non-Traffic Areas Only
NTS

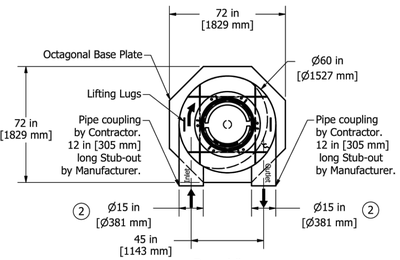
If traffic loading (HS-25) is required or anticipated, a 4-foot [1.22 m] diameter, 14-inch [356 mm] thick reinforced concrete pad must be placed over the Stormwater Treatment System Riser to support and level the manhole frame, as shown. The top of riser pipe must be wrapped with compressible expansion joint material to a minimum 1/2-inch [13 mm] thickness to allow transfer of wheel loads from manhole cover to concrete slab. Manhole cover shall bear on concrete slab and not on riser pipe. The concrete slab shall have a minimum strength of 3,000 psi [20 MPa] and be reinforced with #4 [13 mm] reinforcing steel as shown. Minimum cover over reinforcing steel shall be 1-inch [25 mm]. Top of manhole cover and concrete slab shall be level with finish grade.



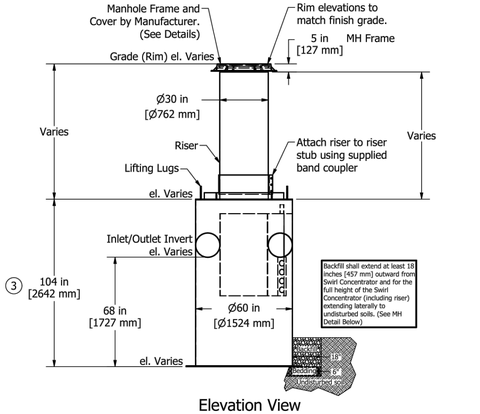
Manhole Frame & Cover Detail
For Traffic Loading Areas
NTS

Please see accompanied Aqua-Swirl® specification notes. See Site Plan for actual system orientation. Approximate dry (pick) weight: 2200 lbs [1000 kg].

1. As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.
2. AS-5 inlet/outlet pipe size ranges from 4 in [102 mm] to 12 in [305 mm].
3. AS-5 chamber height may vary from 84 in [2134 mm] to 104 in [2642 mm], depending on inlet/outlet pipe size.



Plan View
SCALE 1:40



Elevation View
SCALE 1:40

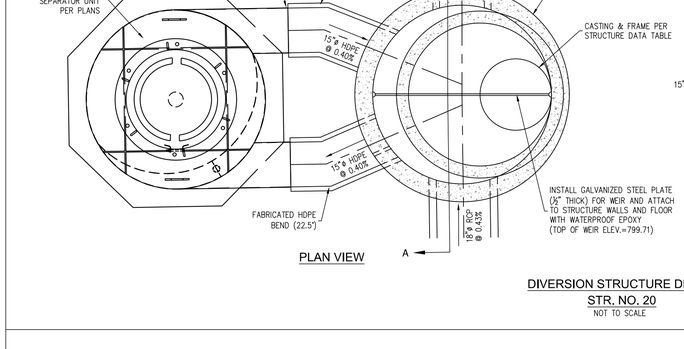
AquaShield
WATER TREATMENT SOLUTIONS
2733 Kanasita Drive, Suite 111, Chattanooga, TN 37343
Phone (888) 344-9044 Fax (423) 826-2112
www.aquashieldinc.com

Aqua-Swirl® Concentrator
AS-5 HorseShoe CW

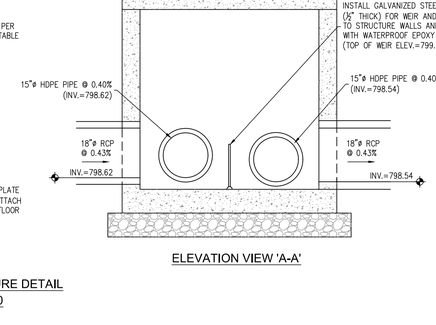
Standard Detail

Structure #:	AS-5 STD	Rvwed	Rvw. Date
Drawn By:	DHarris		
Scale:	As Shown		
Date:	2/25/2021		

U.S. Patent No. 6524473 and other Patent Pending

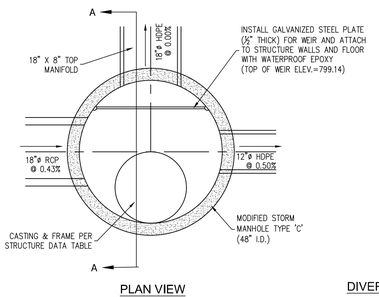


PLAN VIEW

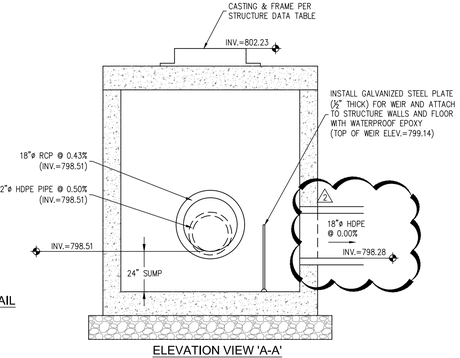


ELEVATION VIEW 'A-A'

DIVERSION STRUCTURE DETAIL
STR. NO. 20
NOT TO SCALE



PLAN VIEW



ELEVATION VIEW 'A-A'

DIVERSION STRUCTURE DETAIL
STR. NO. 22
NOT TO SCALE

DIRECTORY PATH : R:\Active\Lenoir-Rhea\Whiteland High School\Design\CAD\Plans\PHASE 1A
FILENAME : 900 MISCELLANEOUS DETAILS.dwg
DATE/USER : 3/23/2023 4:08 PM / Kflagg

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
116 N. 7th AVENUE, BEECH GROVE, IN 46107 (317) 780-1555

SHEET 901

MISCELLANEOUS DETAILS

WHITELAND HIGH SCHOOL PHASE 1A

JOB No.	.	DRAWN	KLF	CHECKED	TEN	APPR.	GJI
DATE	FEBRUARY 27, 2023	DESIGNED	DMS				

REGISTERED ENGINEER DEREK M. SNYDER NO. 11200008 STATE OF INDIANA PROFESSIONAL

NO.	DATE	REVISIONS	BY	APPR.
1	03.03.23	ADDENDUM 2-REVISIONS PER TOWN OF WHITELAND TRC COMMENTS, UTILITY POTHOLING RESULTS, ADS STORMTECH REVIEW, & CBBE REVIEW	DMS	GJI
2	03.24.23	REVISED BASIN 'B' DETENTION ELEVATIONS AND OUTLET CONTROL STRUCTURE DETAIL (STR. NO. 12)	DMS	GJI
3				
4				
5				
6				
7				
8				
9				

SHEET 901

Primary Engineering, Inc.
9785 Crosspoint Blvd., Ste. 103
Indianapolis, Indiana 46256
317-324-1221 ph
www.primary-eng.com

Addendum: **2**

Date: **03/24/2023**

Project: **Clark-Pleasant Community School Corportation**
Whiteland Community High School Phase 1A

Comm #: **22417**

The following items shall be incorporated into the specifications and drawings and are considered to be integral to the bid documents for the project. Acknowledgement of receipt of this addendum is required on the bid form.

Item #1: Drawing Sheet ES101

A. Exterior Light Fixture Schedule:
- SL1: Revise Streetworks fixture to be the following: STREETWORKS #VERD-M-CA3-160-740-HV-T4-A15-XX-MS/DIM-L40 WITH #SSA4T30W-XX-1-FGV
- SL1-HS: Revise Streetworks fixture to be the following: STREETWORKS #VERD-M-CA3-160-740-HV-T4-A15-XX-HSS-MS/DIM-L40 WITH #SSA4T30W-XX-1-FGV
- SL1: Revise Streetworks fixture to be the following: STREETWORKS #VERD-M-CA3-160-740-HV-T5-A15-XX-MS/DIM-L40 WITH #SSA4T30W-XX-1-FGV