DRAINAGE REPORT

INTERSTATE WAREHOUSE FACILITY
FRANKLIN, INDIANA

Prepared by:

American Structurepoint, Inc.
7260 Shadeland Station
Indianapolis, Indiana 46256-3957

Prepared: June 12, 2012

Submitted by:

William A. Butz, Jr., PE
Jessica Zartman, EI

201200731

TABLE OF CONTENTS

Appendices

AVON HEALTH CAMPUS

Overall Project Description

The project is located in the City of Franklin in Johnson County, Indiana. The proposed project site is located near the southeast corner of Bartram Drive and Bartram Parkway in Franklin, Indiana. The site is a part of the previously submitted master drainage plan for the Interstate Warehouse Facility prepared by Schneider. The previously submitted master drainage plan has been approved by the City and County. This project includes the addition of a truck drive on the east side of the vacated Bartram Parkway and additional parking spaces on the east side of the current parking lot.

The proposed site is not located within any flood zone, as indicated on the Johnson County, Indiana, Flood Insurance Rate Map 18081C0232D, dated August 2, 2007, found in Appendix B.

Existing Drainage Conditions

The current property is an undeveloped field in the area of the proposed truck drive. The area of the proposed parking lot addition and renovation is paved to the west of the drive way and grass cover to the east of the drive way. Based on existing topography, stormwater runoff from the area where the truck drive is proposed sheet flows east to a pond. The stormwater runoff from the parking area is collected in inlets by an existing storm sewer which discharges to the pond east of the site. A ditch is located east of the parking area and conveys stormwater from the swale east of Bartram Parkway to the existing storm sewer system.

The Natural Resources Conservation Service (NRCS) Web Soil Survey of Johnson County, Indiana, indicates Brookston silty clay loam and Crosby silt loam exist on the proposed site. A soils map can be found in Appendix C.

Proposed Drainage Conditions

The proposed project consists of a disturbed area of approximately 2.21 acres for construction of the truck drive and parking area. The drainage plan previously submitted by Schneider and approved by the City and County accounted for the increase in impervious area from this proposed project. The proposed design conveys stormwater during the 10-year storm event.

Once constructed, the truck drive will be drained by a proposed storm sewer system which will discharge to the pond. The proposed parking area will require filling in the ditch which conveyed stormwater from the swale east of Bartram Parkway to the existing storm sewer. Therefore a storm sewer system is proposed in the parking lot to convey existing drainage as well as runoff from the proposed parking lot. The east portion of the parking area will drain to an existing inlet and also the paved side ditch through the use of a curb turn out. All stormwater runoff from the parking lot will eventually be conveyed by the existing storm sewer and discharge to the pond as it does in the existing condition. A Proposed Site Conditions Map is included in Appendix E.

The proposed storm sewer systems were designed to convey to the 10-year storm event. Calculations can be found in Appendix D.

Post-Construction BMPs

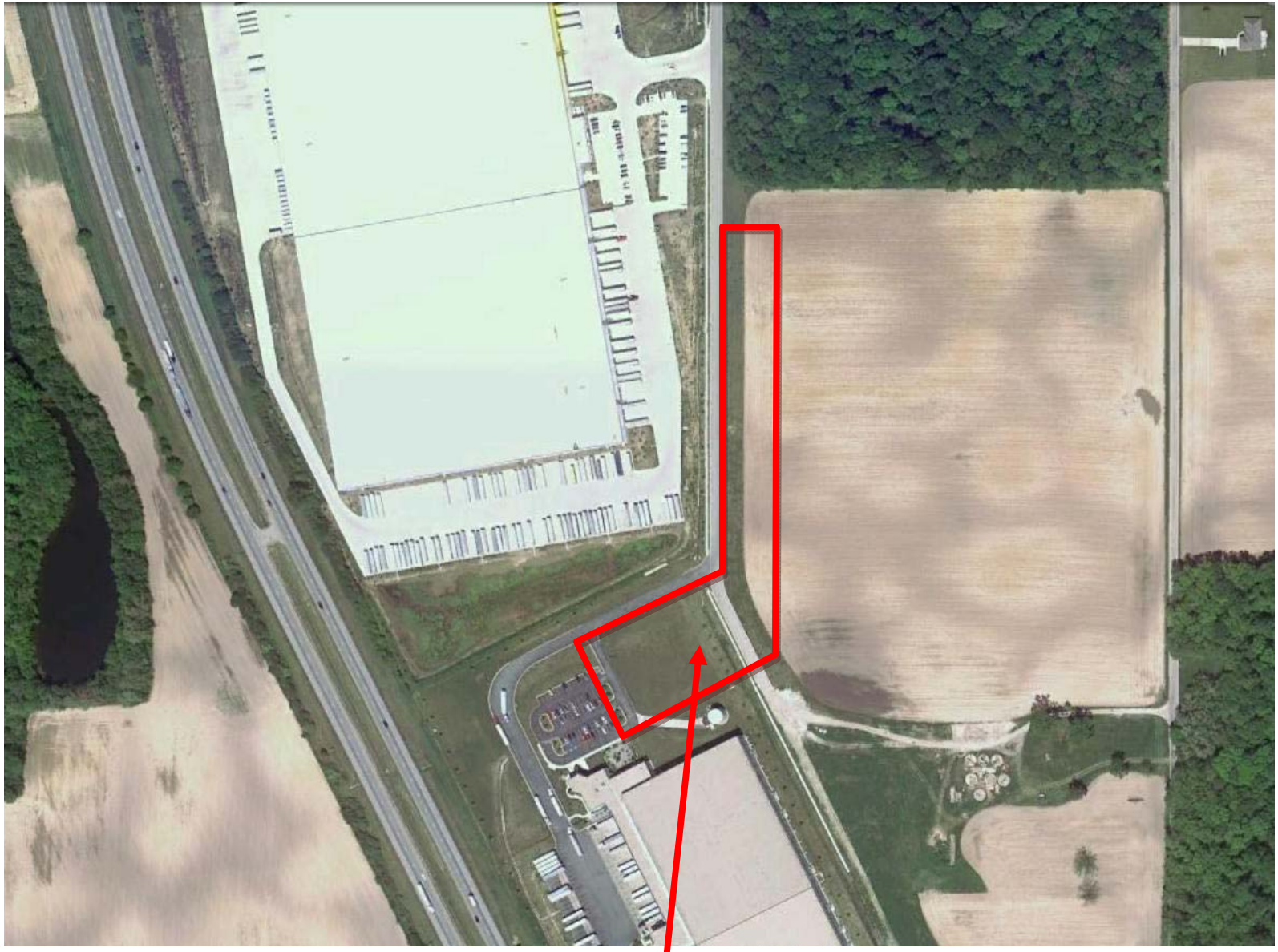
Water quality calculations can be found in the previously submitted and approved drainage report by Schneider.

Conclusion

No adverse impacts are expected from the construction of the proposed project.

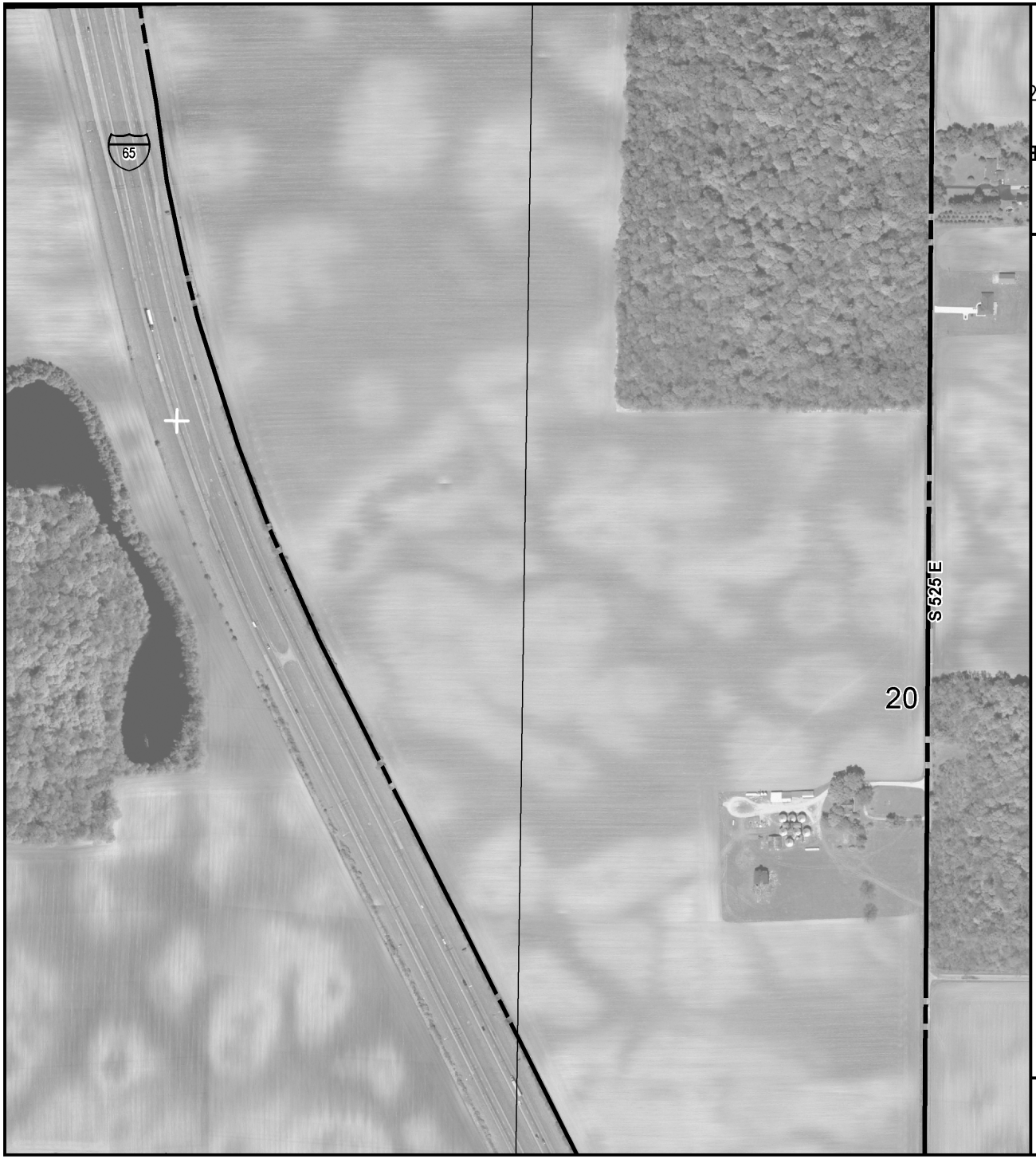
APPENDIX A

AERIAL PHOTOGRAPH AND EXISTING TOPOGRAPHY EXHIBIT


PROJECT LOCATION

APPENDIX B

FLOOD INSURANCE RATE MAP



MAP SCALE 1 " = 500 '

250 0 500 1000 FEET

0 150 300 METER

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0232D

FIRM

FLOOD INSURANCE RATE MAP

JOHNSON COUNTY, INDIANA

AND INCORPORATED AREAS

PANEL 232 OF 352

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

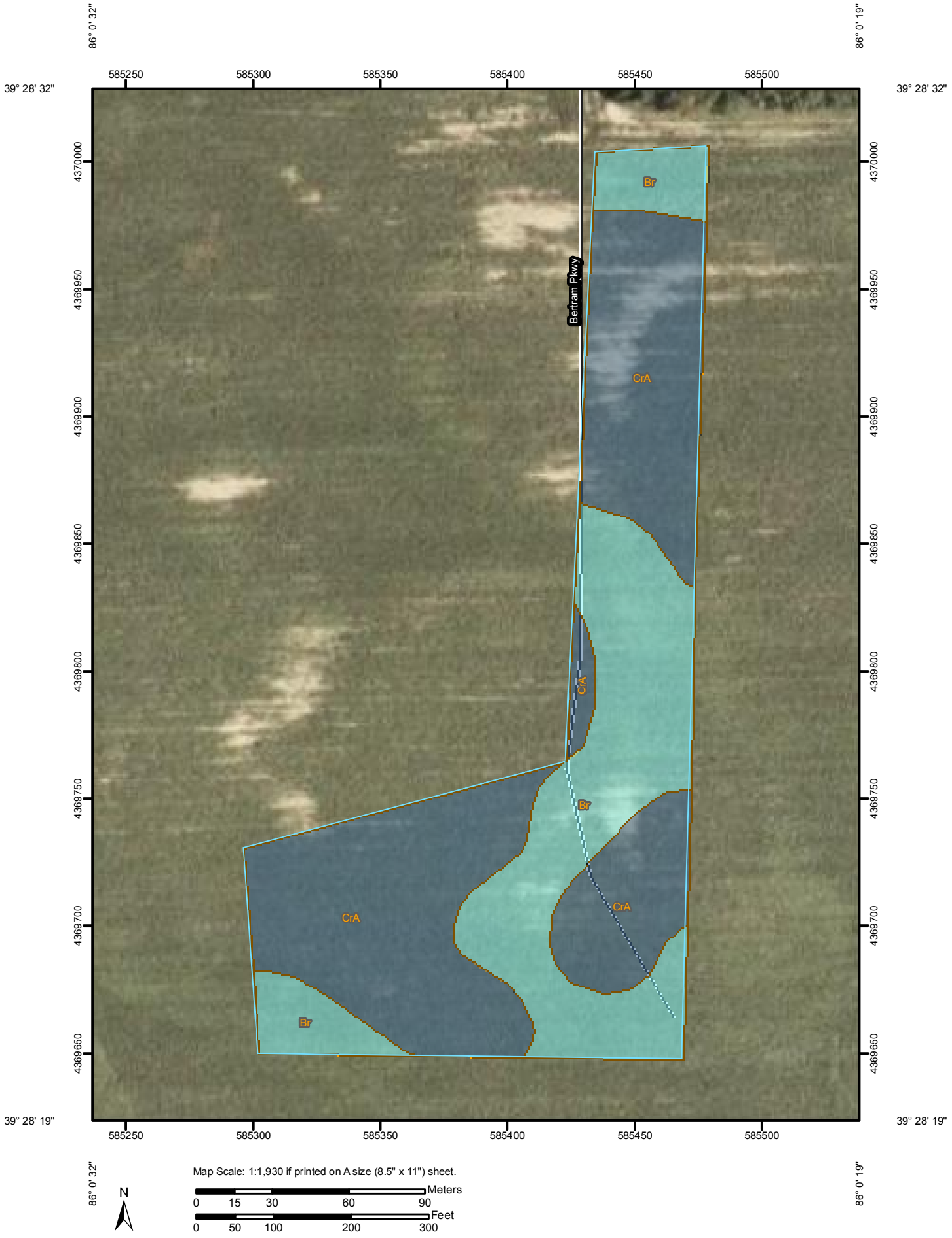
COMMUNITY	NUMBER	PANEL	SUFFIX
FRANKLIN, CITY OF	180114	0232	D
JOHNSON COUNTY	180111	0232	D

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
18081C0232D
EFFECTIVE DATE
AUGUST 2, 2007

Federal Emergency Management Agency

APPENDIX C
EXISTING SOILS MAP


86° 0' 32"
86° 0' 19"
39° 28' 32"
39° 28' 19"
585250
585300
585350
585400
585450
585500
4370000
4369950
4369900
4369850
4369800
4369750
4369700
4369650
Bertram Pkwy
Br
CrA
Map Scale: 1:1,930 if printed on A size (8.5" x 11") sheet.
N
Meters
0 15 30 60 90
Feet
0 50 100 200 300

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Units

Soil Ratings

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Political Features

- Cities

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:1,930 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:15,840.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 16N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Johnson County, Indiana
Survey Area Data: Version 16, Dec 12, 2011

Date(s) aerial images were photographed: 8/18/2003

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Johnson County, Indiana (IN081)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Br	Brookston silty clay loam	B/D	2.9	40.0%
CrA	Crosby silt loam, 0 to 2 percent slopes	C/D	4.3	60.0%
Totals for Area of Interest			**7.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie.

The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

APPENDIX D

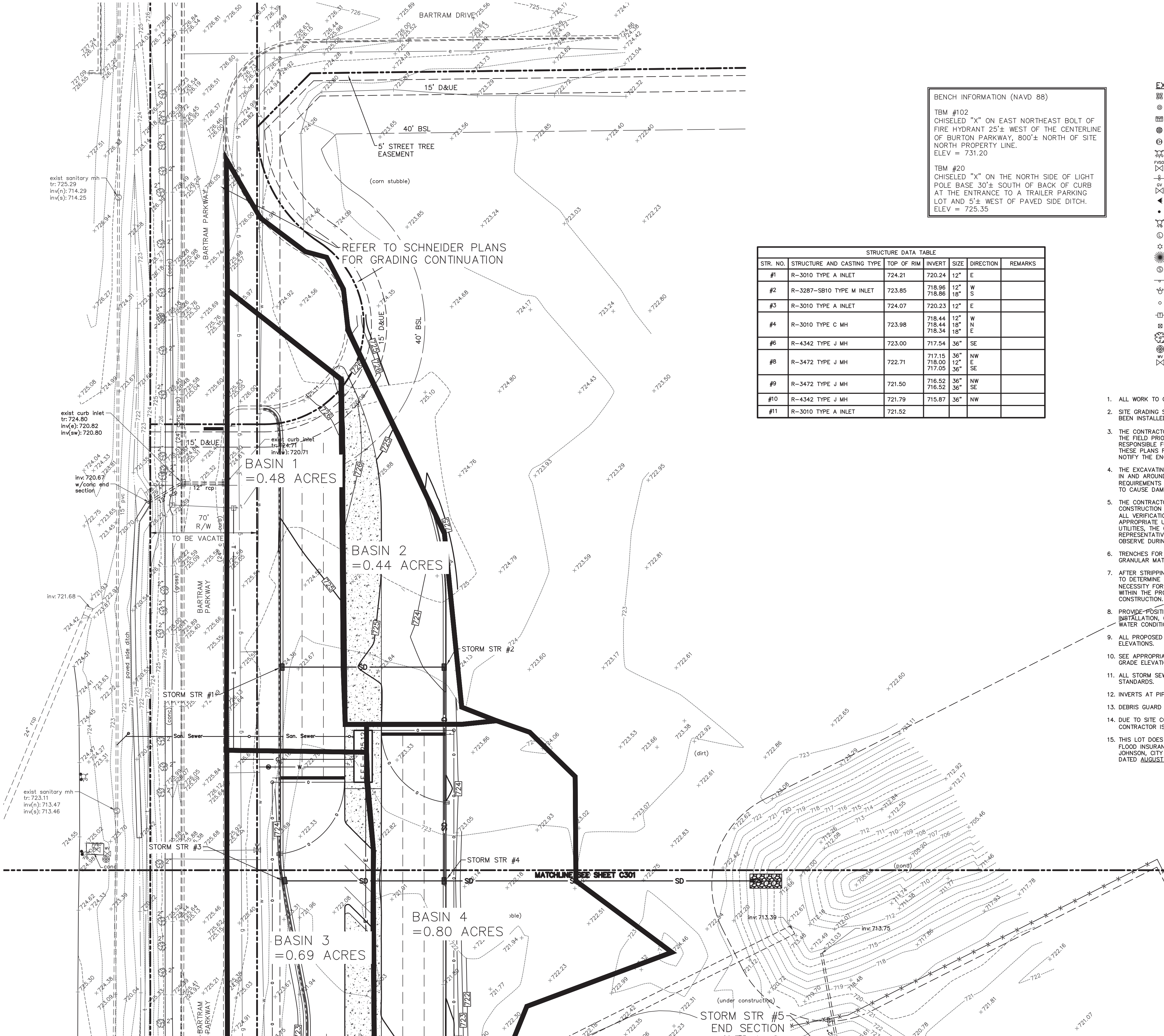
STORM SEWER AND STRUCTURE DATA TABLE CALCULATIONS

PROPOSED STORM SEWER SYSTEM
STORM SEWER DESIGN TABLE - RATIONAL METHOD
LOCATION Franklin, Indiana
JOB TITLE Interstate Warehouse Facility
JOB NUMBER 201200731
DATE 06/12/12

MANNINGS n = 0.012 RCP
DESIGN STORM 10-year

																RIM		INVERT			
STR.	TO STR.	LENGTH	c	AREA	cA	CUM. cA	Tc	Tcum	10-yr i	Q	PIPE DIAMETER	PIPE SLOPE	FULL PIPE CAPACITY	VELOCITY	TRAVEL TIME	ELEV. U.S.	ELEV. D.S.	ELEV. U.S.	ELEV. D.S.	U.S. COVER	D.S. COVER
		(ft)		(acres)			(min)	(min)	(in/hr)	(CFS)	(inches)	(%)	(cfs)	(ft/sec)	(min)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
1	2	107	0.90	0.48	0.43	0.43	5.00	5.00	7.60	**3.30**	12	1.20	**4.23**	5.38	0.33	724.21	723.23	720.24	718.96	2.80	3.11
2	4	140	0.90	0.44	0.40	0.83	5.00	5.33	7.48	**6.22**	18	0.30	**6.23**	3.53	0.66	723.23	723.98	718.86	718.44	2.67	3.84
3	4	105	0.90	0.69	0.62	0.62	5.00	5.00	7.60	**4.70**	12	1.70	**5.03**	6.41	0.27	724.07	723.98	720.23	718.44	2.68	4.38
4	5	207	0.90	0.80	0.72	2.17	5.00	5.99	7.25	**15.72**	24	0.65	**19.68**	6.27	0.55	723.98	-	718.34	717.00	3.39	-
6	8	76	0.90	7.50	6.75	6.75	5.00	5.00	7.60	**51.30**	36	0.51	**51.60**	7.30	0.17	723.00	722.71	717.54	717.15	2.13	2.23
7 EX	8	29	0.90	0.16	0.14	0.14	5.00	5.00	7.60	**1.07**	12	2.00	**5.46**	6.95	0.07	722.69	722.71	718.59	718.00	2.93	3.54
8	9	96	0.90	0.20	0.18	7.07	5.00	5.17	7.54	**53.29**	36	0.55	**53.59**	7.58	0.21	722.71	721.50	717.05	716.52	2.33	1.64
9	10	113	0.90	0.31	0.28	7.34	5.00	5.38	7.47	**54.83**	36	0.58	**55.03**	7.79	0.24	721.50	-	716.52	715.87	1.64	-

APPENDIX E
PROPOSED DRAINAGE MAP



0' 30' 60'

SCALE: 1"=30'

BENCH INFORMATION (NAVD 88)

TBM #102
CHISELED "X" ON EAST NORTHEAST BOLT OF FIRE HYDRANT 25'± WEST OF THE CENTERLINE OF BURTON PARKWAY, 800'± NORTH OF SITE NORTH PROPERTY LINE.
ELEV = 731.20

TBM #20
CHISELED "X" ON THE NORTH SIDE OF LIGHT POLE BASE 30'± SOUTH OF BACK OF CURB AT THE ENTRANCE TO A TRAILER PARKING LOT AND 5'± WEST OF PAVED SIDE DITCH.
ELEV = 725.35

STRUCTURE DATA TABLE

STR. NO.	STRUCTURE AND CASTING TYPE	TOP OF RIM	INVERT	SIZE	DIRECTION	REMARKS
#1	R-3010 TYPE A INLET	724.21	720.24	12"	E	
#2	R-3287-SB10 TYPE M INLET	723.85	718.96 718.86	12" 18"	W S	
#3	R-3010 TYPE A INLET	724.07	720.23	12"	E	
#4	R-3010 TYPE C MH	723.98	718.44 718.44 718.34	12" 18" 18"	W N E	
#6	R-4342 TYPE J MH	723.00	717.54	36"	SE	
#8	R-3472 TYPE J MH	722.71	717.15 718.00 717.05	36" 12" 36"	NW E SE	
#9	R-3472 TYPE J MH	721.50	716.52 716.52	36" 36"	NW SE	
#10	R-4342 TYPE J MH	721.79	715.87	36"	NW	
#11	R-3010 TYPE A INLET	721.52				

EXISTING LEGEND

- Beehive Inlet
- Clean Out
- Curb Inlet
- Drainage Inlet
- Electric Handhole
- Fire Hydrant
- Fire Valve Shut Off
- Gas Marker
- Gas Valve
- Ground Light
- Guard Post
- Hose Bib
- Lid
- Light Pole
- PineTree
- Sanitary MH
- Sign
- Sprinkler Control Valve
- Stand Pipe
- Telephone Pedestal
- Transformer
- Tree
- Water Meter
- Water Valve

GENERAL GRADING NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (location, size and depth) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
6. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
13. DEBRIS GUARD TO BE INSTALLED AT ALL OPEN ENDED INLETS.
14. DUE TO SITE CONSTRAINTS, THE SITE MAY OR MAY NOT BALANCE. THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK IMPORTS AND/OR EXPORTS.
15. THIS LOT DOES NOT LIE WITHIN ANY FLOOD HAZARD ZONE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR JOHNSON COUNTY, INDIANA, COMMUNITY JOHNSON, CITY OF FRANKLIN, COMMUNITY NUMBER 18081C, PANEL NUMBER 0232D, DATED AUGUST 2, 2007.

NOTES:

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CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
CALL TOLL FREE
- INDIANA UNDERGROUND -

AMERICAN STRUCTUREPOINT INC.
7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

CERTIFIED BY

GRADING PLAN

PROJECT:
FRANKLIN TECH PARK ENTRANCE
INTERSTATE WAREHOUSE FACILITY
FRANKLIN, INDIANA

PREPARED FOR:
TIPPMANN CONSTRUCTION INC.
9009 COLDWATER ROAD
FT. WAYNE, INDIANA 46825

DATE:	
DRAWN BY:	DCR
CHK'D BY:	WAB
JOB NO.	201200731

REVISIONS

SHEET NO.
C.300
OF

201200731.CE.PROPOSED.dwg

PRINT DATE: 6/12/12 PLOT SCALE: 1:2.5849 EDIT DATE: 5/25/12 - 4:33 PM EDITED BY: JZARTMAN DRAWING FILE: P:\2012\00731\C. CALCS_DATA\DRAINAGE\201200731.CE.PROPOSED.DWG

PRINT DATE: 6/12/12 EDIT DATE: 5/25/12 - 4:33 PM EDITED BY: JZARTMAN DRAWING FILE: P:\2012\00731\C. CALCS_DATA\DRAINAGE\201200731.CE.PROPOSED.DWG
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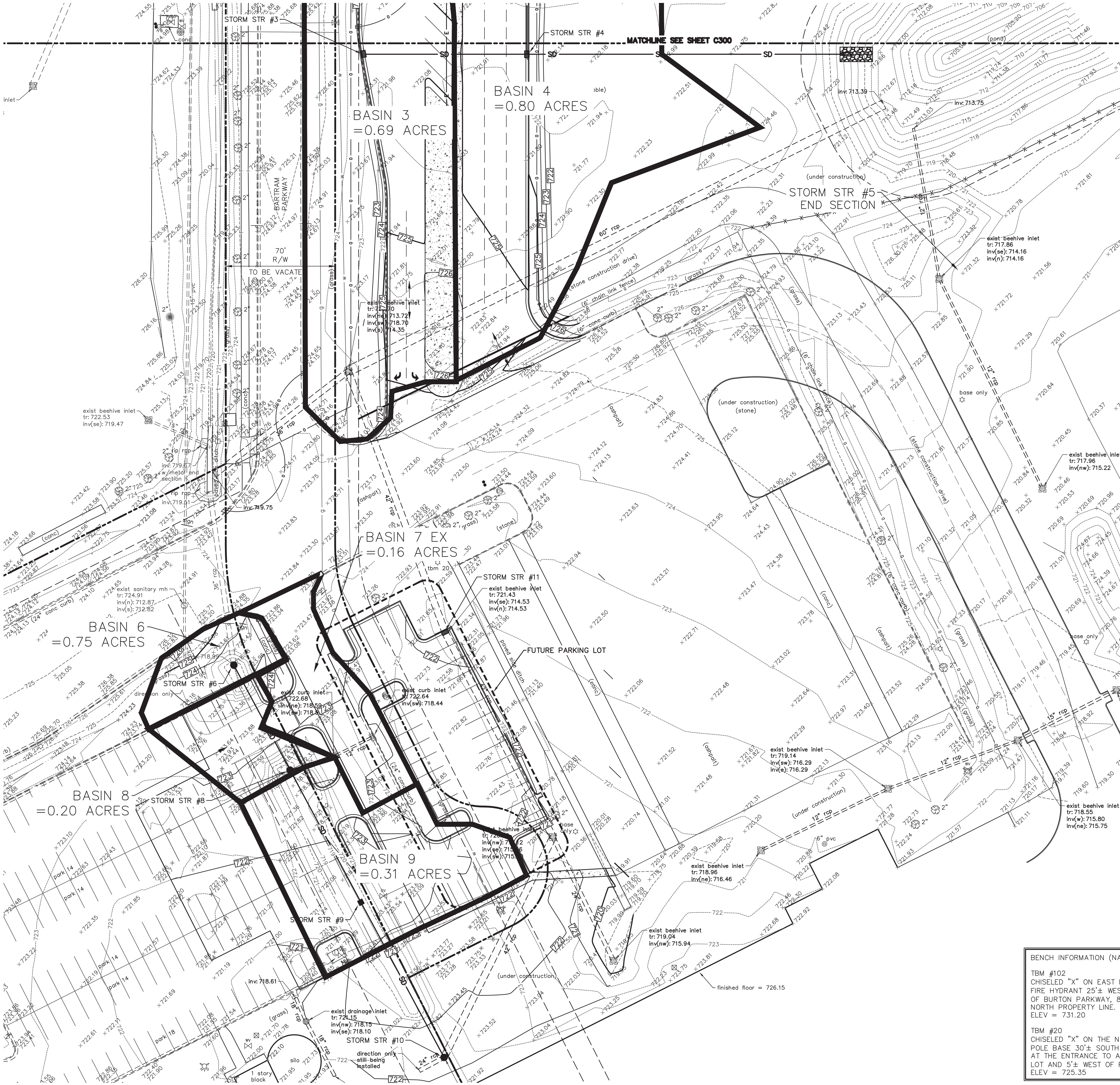

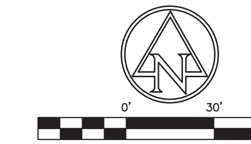

SCALE: 1"=30'

EXISTING LEGEND

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www.structurepoint.com

CERTIFIED BY

GRADING PLAN

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FRANKLIN TECH PARK ENTRANCE
INTERSTATE WAREHOUSE FACILITY
FRANKLIN, INDIANA

PREPARED FOR:
TIPPMANN CONSTRUCTION INC.
9009 COLDWATER ROAD
FT. WAYNE, INDIANA 46825

DATE:	
DRAWN BY:	DCR
CHK'D BY:	WAB
JOB NO.	201200731

REVISIONS	

SHEET NO.
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