Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
September 15, 2010

Closing Date:
October 5, 2010

PUBLIC NOTICE

IDEM ID Number:
2010-348-49-BCB-A

Corps of Engineers ID Number:
LRL-2010-797-sjm

To all interested parties: This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

1. Applicant:
Mr. Steve Fuller
TH Midwest
2600 Corporate Exchange Drive, Suite 170
Columbus, OH 43231

2. Agent:
Mr. David Sedlick
ATC Associates, Inc.
950 Taylor Station Road, Suite V
Gahanna, OH 43230

3. Project location: SW ¼ of Section 3, Township 14 North, Range 4 East, Beech Grove U.S.G.S. Quad, Marion County. Southeast corner of the intersection of South Emerson Avenue and Shelbyville Road,

4. Affected waterbody: 0.26 acre of a 0.91 acre jurisdictional emergent wetland (Upper White 8 – Digit Hydrologic Unit Code, 05120201)

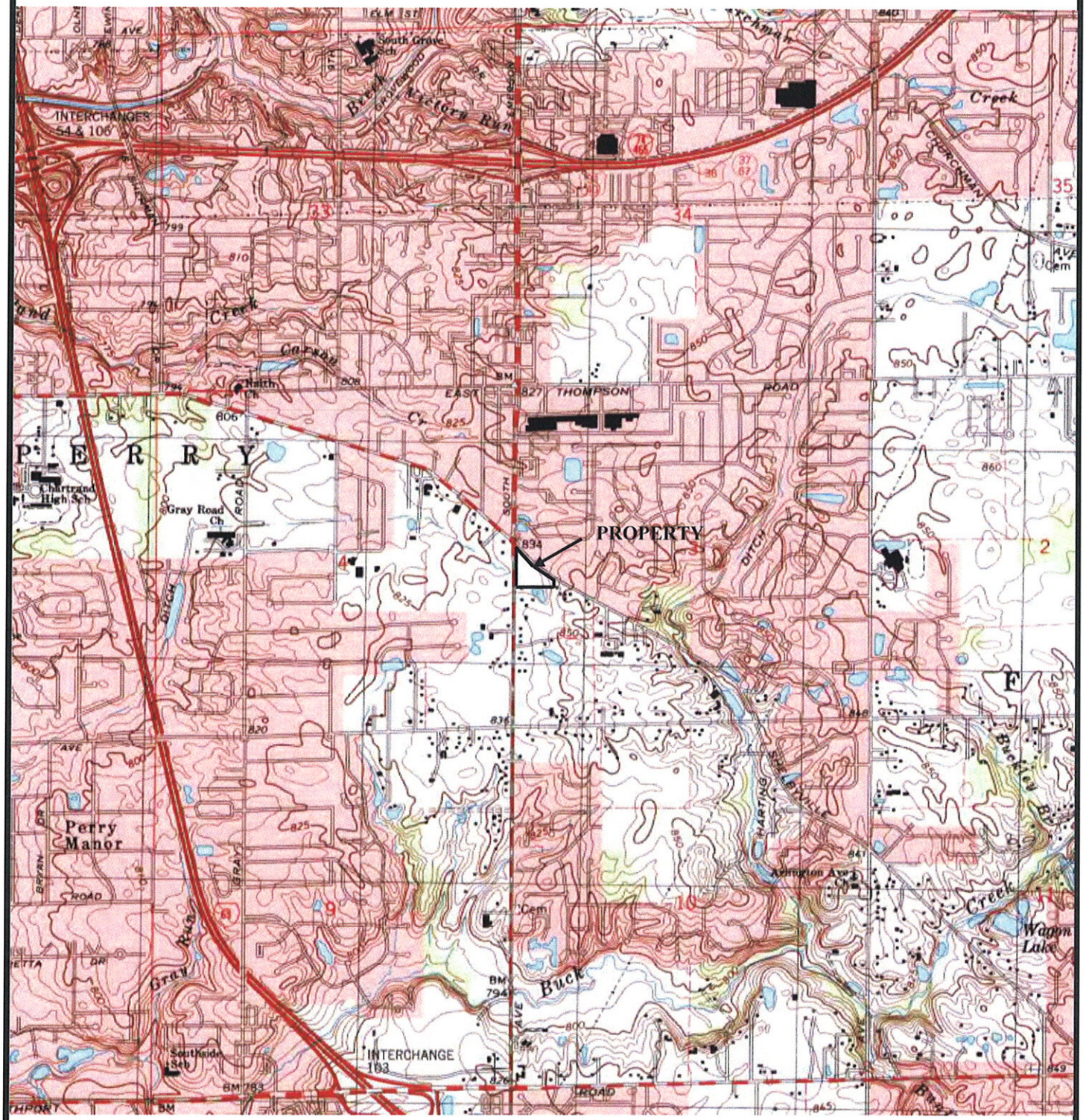
5. Project Description: The applicant proposes to discharge approximately 1,051 cubic yards of clean earthen fill into 0.21 acre of a 0.91 acre jurisdictional emergent wetland. The purpose of the project is to construct a gas station and convenient store with sidewalks, two (2) access driveways, and two (2) dry storm water detention basins. To mitigate for the 0.21 acre emergent wetland fill, the applicant proposes to create onsite at a 1.8 to 1 ratio 0.38 acre of emergent wetland, as well as 0.72 acre of wetland enhancement. For additional plans and information, please visit the IDEM Public Notice webpage at http://www.in.gov/idem/6399.htm

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Mr. Brad Baldwin, Project Manager, at 317-234-5647. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251
FAX: 317/232-8406



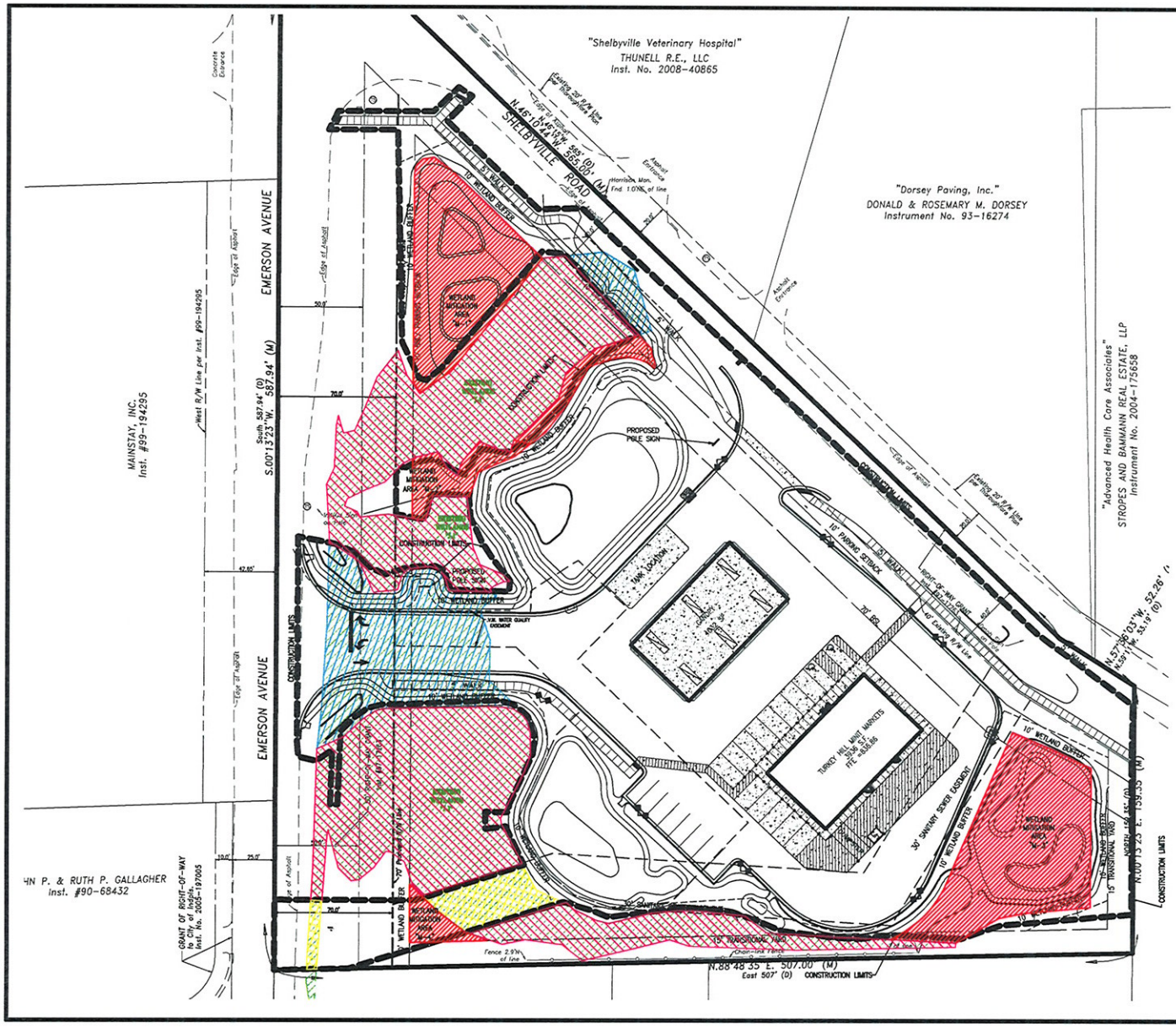
ATC ASSOCIATES INC.

950 Taylor Station Road
Suite V
Gahanna, Ohio 43230
(614) 367-7840

Source: USGS 7 ½ Minute Quadrangle, *Beech Grove, Indiana*, 1998

Project No: 010.27504.0013		Date: May 2010
Drawn By: SC	Reviewed By: DS	Scale: 1"=2,400'

Figure 1: Site Location Map
Wetland Delineation
4.548-Acre Property
South Emerson Avenue and Shelbyville Road
Indianapolis, Marion County, Indiana 46237



WEIHE ENGINEERS
10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317|846-6611

WETLAND IMPACTS

EXISTING WETLANDS	0.91 AC
TEMPORARY IMPACT/WETLAND RESTORATION	0.05 AC
WETLAND IMPACT	0.21 AC
TOTAL WETLAND IMPACT	0.26 AC
WETLAND CREATION MITIGATION	0.38 AC
WETLAND ENHANCEMENT	0.72 AC
TOTAL WETLANDS PROPOSED	1.10 AC

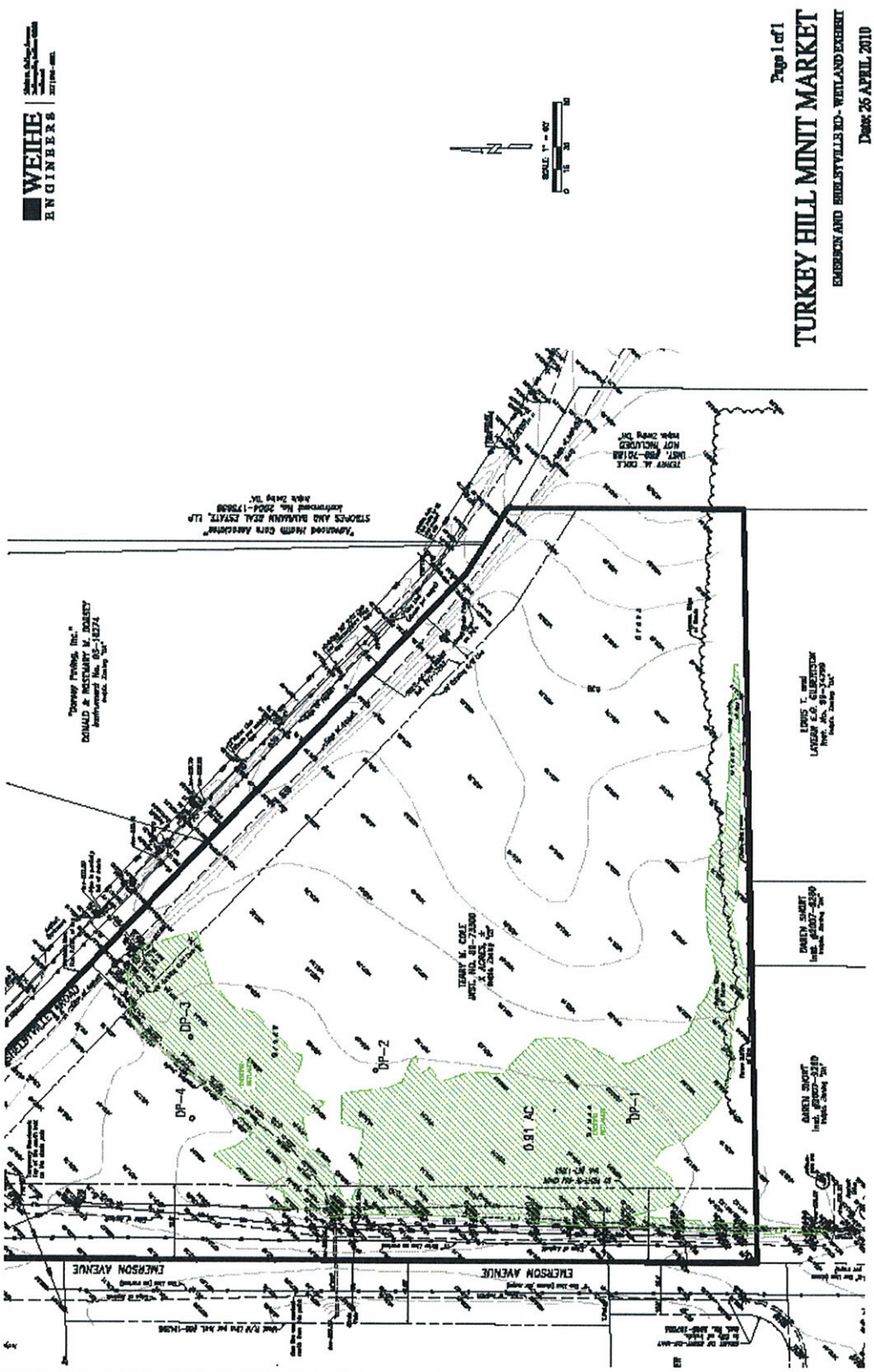
Page 1 of 1

TURKEY HILL MINIT MARKET

EMERSON AND SHELBYVILLE RD - REVISED SITE EXHIBIT

Date: 14 JULY 2010

LOCATION: H:\2009\w090496\eng\base\090496 bs.dwg
DATE/TIME: July 15, 2010 - 7:57am
PLOTTED BY: cartera



ATC ASSOCIATES INC.

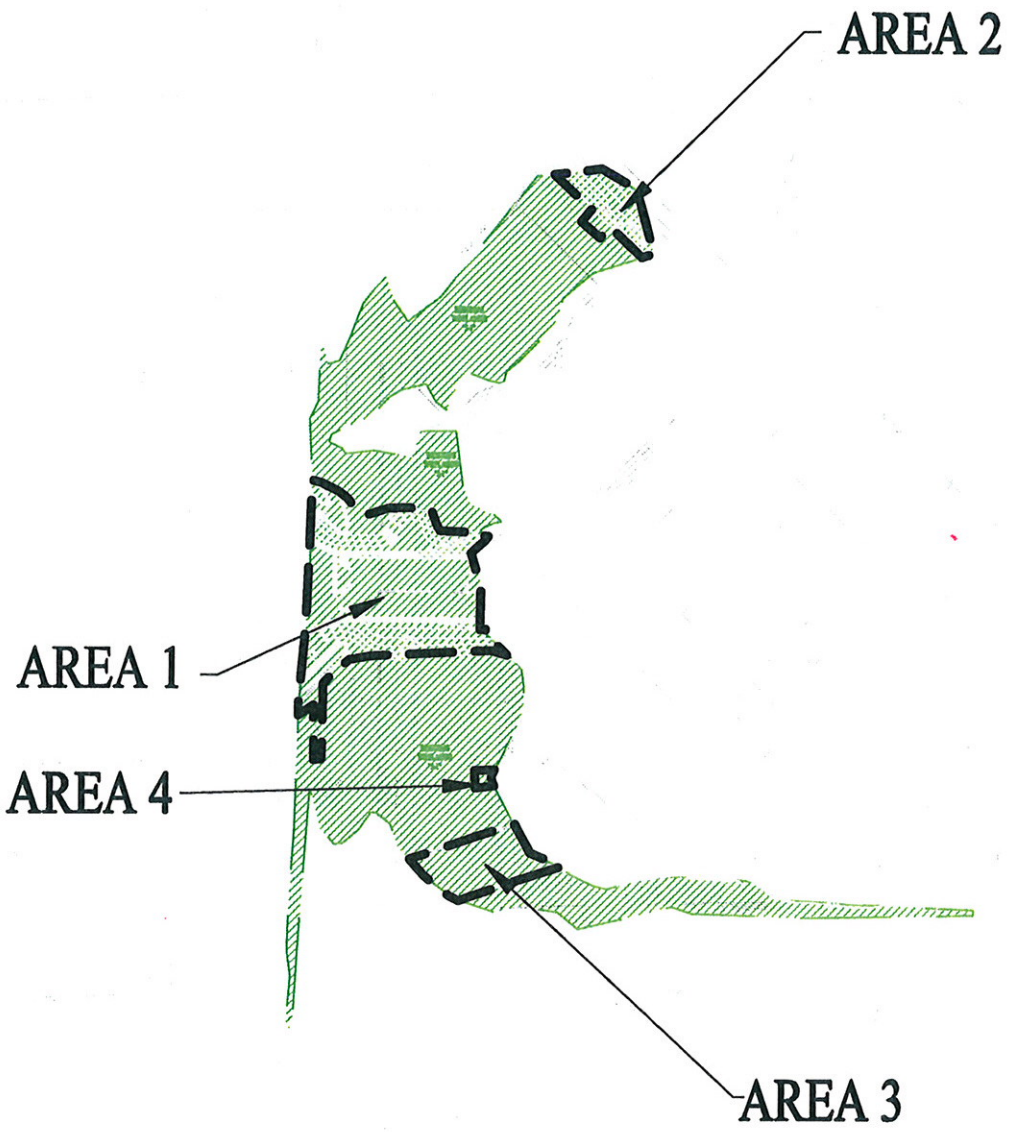
950 Taylor Station Road
Suite V
Gahanna, Ohio 43230
(614) 367-7840

Source: WEIHE Engineers

Project No: 010.27504.0013		Date: May 2010
Drawn By: SC	Reviewed By: DS	Not to Scale

Figure 3: Wetland Delineation Map
Wetland Delineation
4.548-Acre Property
South Emerson Avenue and Shelbyville Road
Indianapolis, Marion County, Indiana 46237

LOCATION: H:\2009\w090496\eng\exhibits\wetland exhibits.dwg
DATE/TIME: July 14, 2010 - 8:50am
PLOTTED BY: cartere



SCALE: 1" = 100'
0 25 50 100

N

EXHIBIT 1
AREA MAP

Date: 12 JULY 2010

WEIHE ENGINEERS
10505 N. College Avenue
Indianapolis, Indiana 46280
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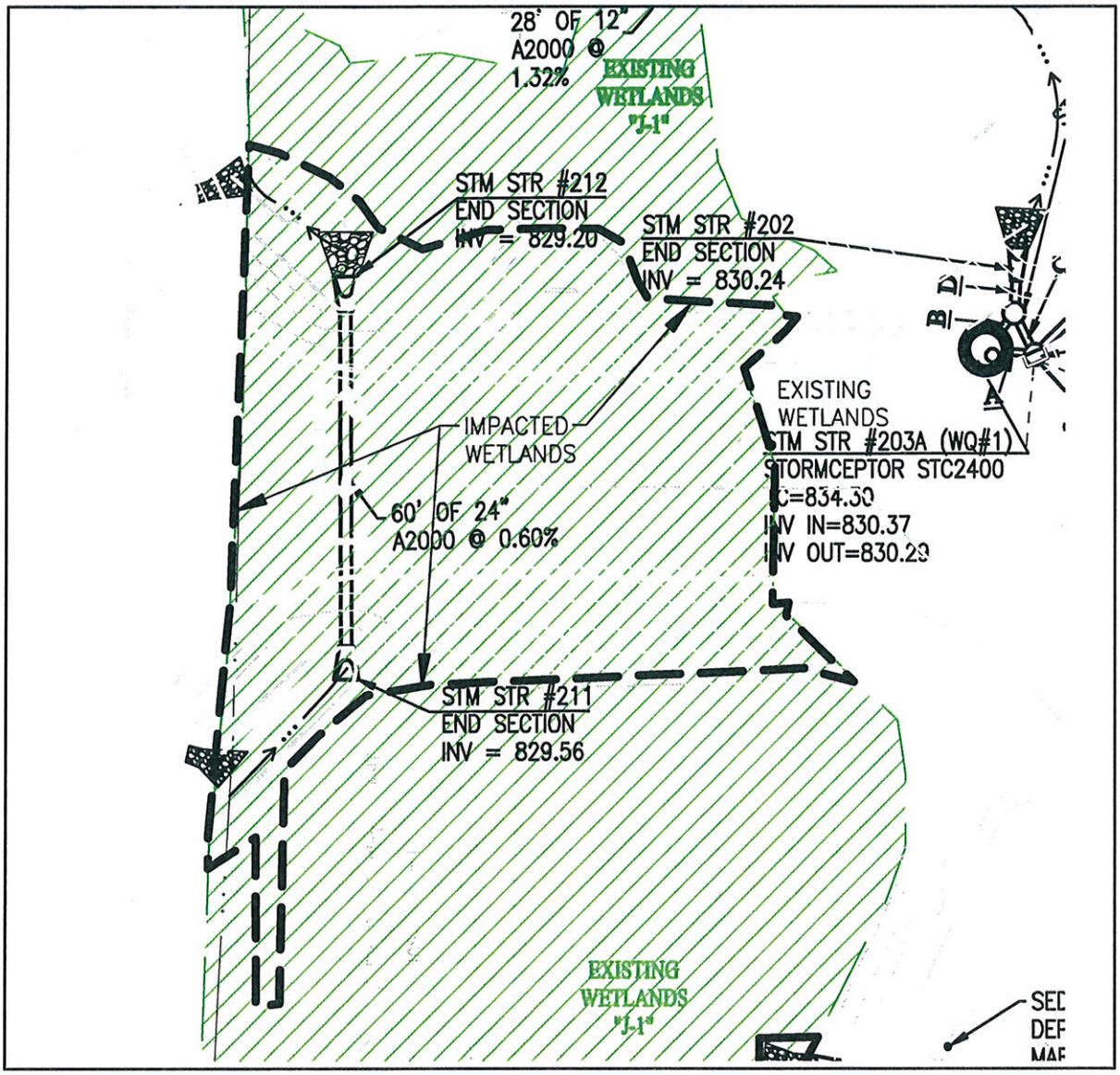
317|846-6611

LOCATION: H:\2009\w090496\eng\exhibits\wetland exhibits.dwg
DATE/TIME: July 10, 2010 - 1:55pm
PLOTTED BY: cartere



AREA IMPACTED: 0.19 AC +/-

CY FILL OF
AREA IMPACTED: 935 CY +/-

EXHIBIT 2
CURVERT AND ROAD CROSSING - AREA 1

PLAN VIEW

Date: 12 JULY 2010

SCALE: 1" = 30'
0 7.5 15 30

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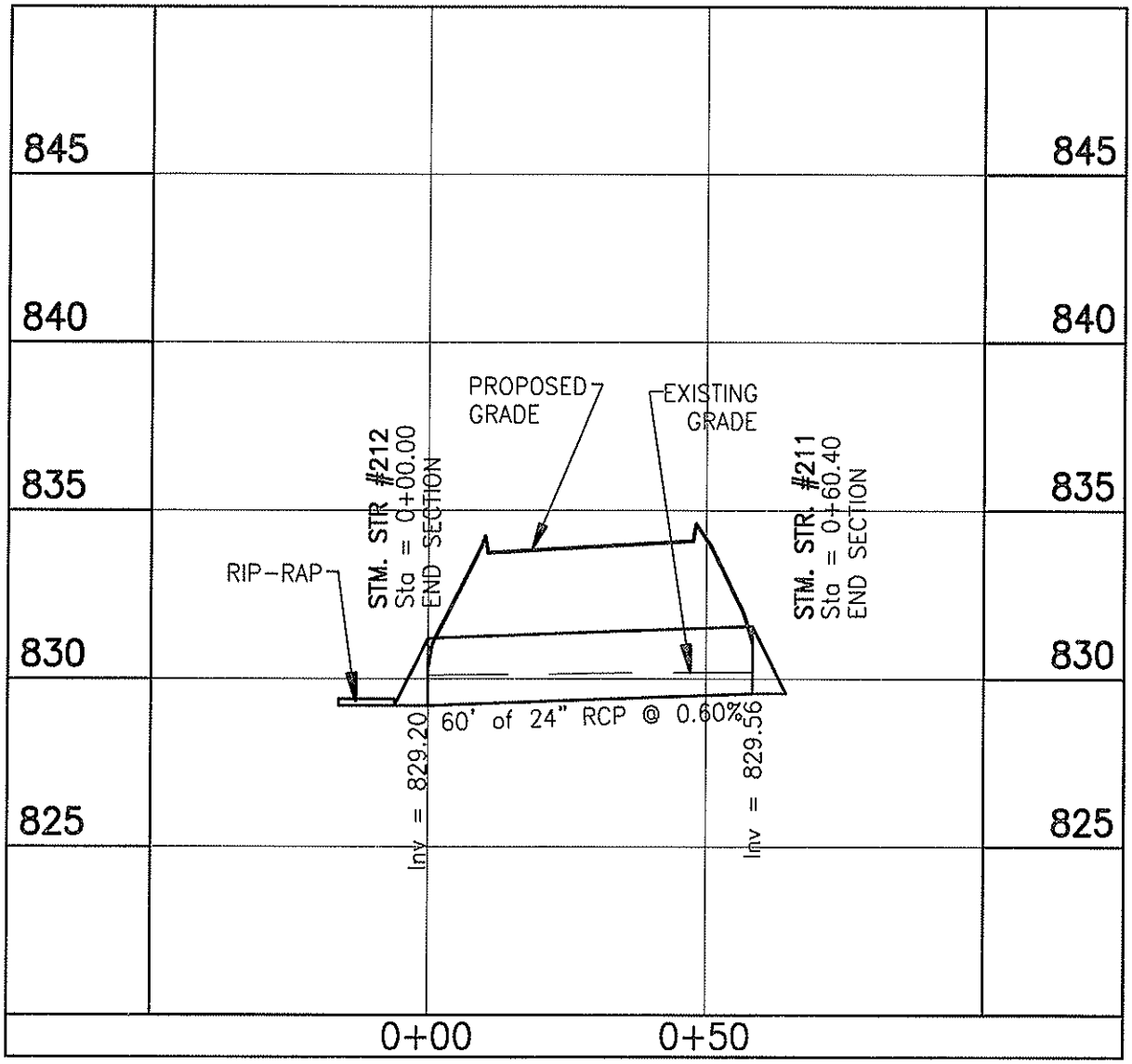
LOCATION: H:\2009\w090496\eng\exhibits\wetland exhibits.dwg
DATE/TIME: July 10, 2010 - 1:57pm
PLOTTED BY: cortera



SCALES:
1" = 30' HOR
1" = 5' VER

EXHIBIT 2A
CURVERT AND ROAD CROSSING - AREA 1
PROFILE VIEW

Date: 12 JULY 2010

SCALE: 1" = 30'
0 7.5 15 30

N

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10505 N. College Avenue
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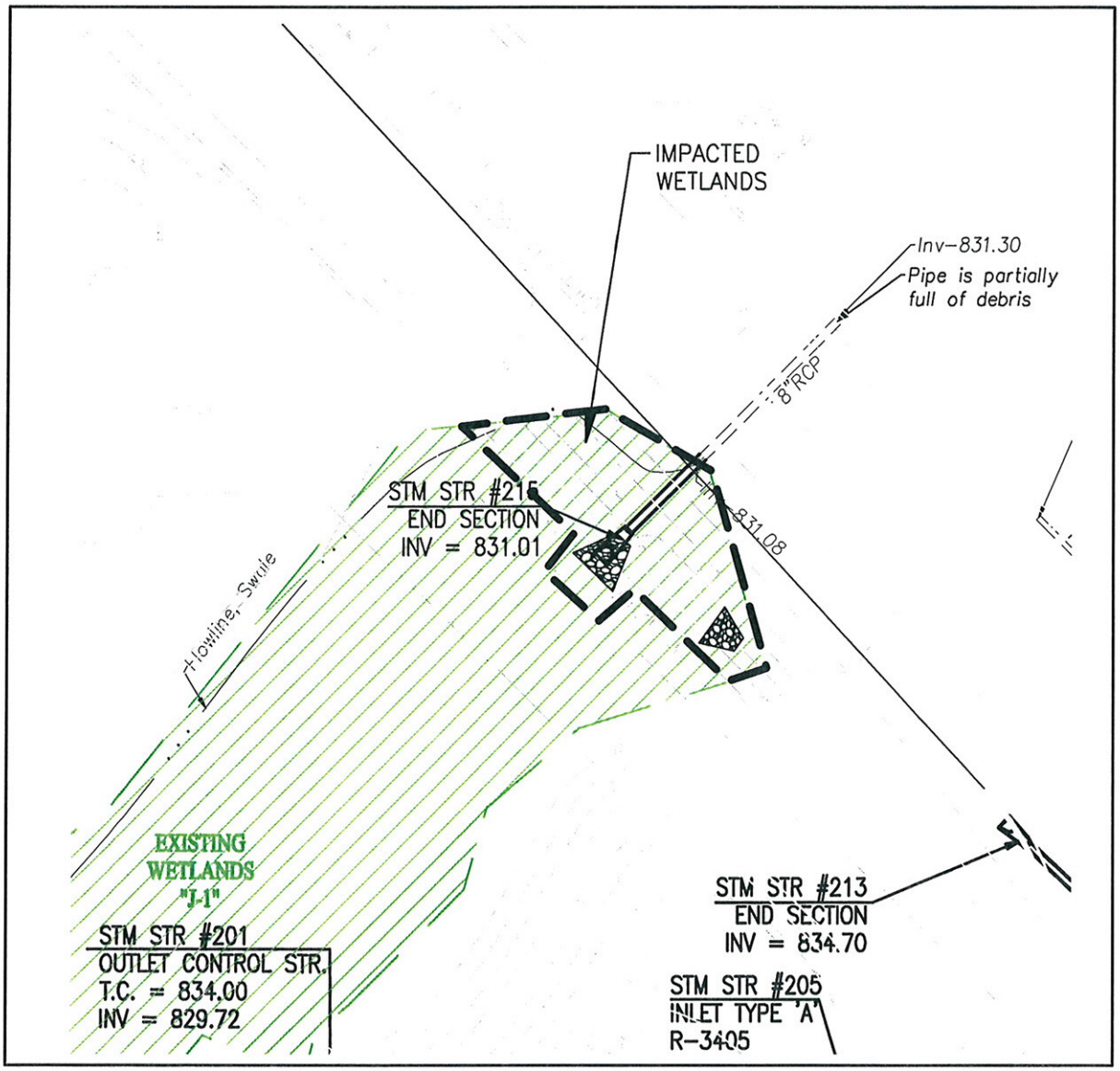
weihe.net
317|846-6611

LOCATION: H:\2009\w090496\eng\exhibits\wetland exhibits.dwg
DATE/TIME: July 14, 2010 - 8:49am
PLOTTED BY: cartere



AREA IMPACTED: .03 AC +/-

CY FILL OF
AREA IMPACTED: 78 CY +/-

EXHIBIT 3
CURVERT, ROAD WIDENING AND WALK CROSSING - AREA 2

N

SCALE: 1" = 30'
0 7.5 15 30

PLAN VIEW

Date: 12 JULY 2010

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Indianapolis, Indiana 46280
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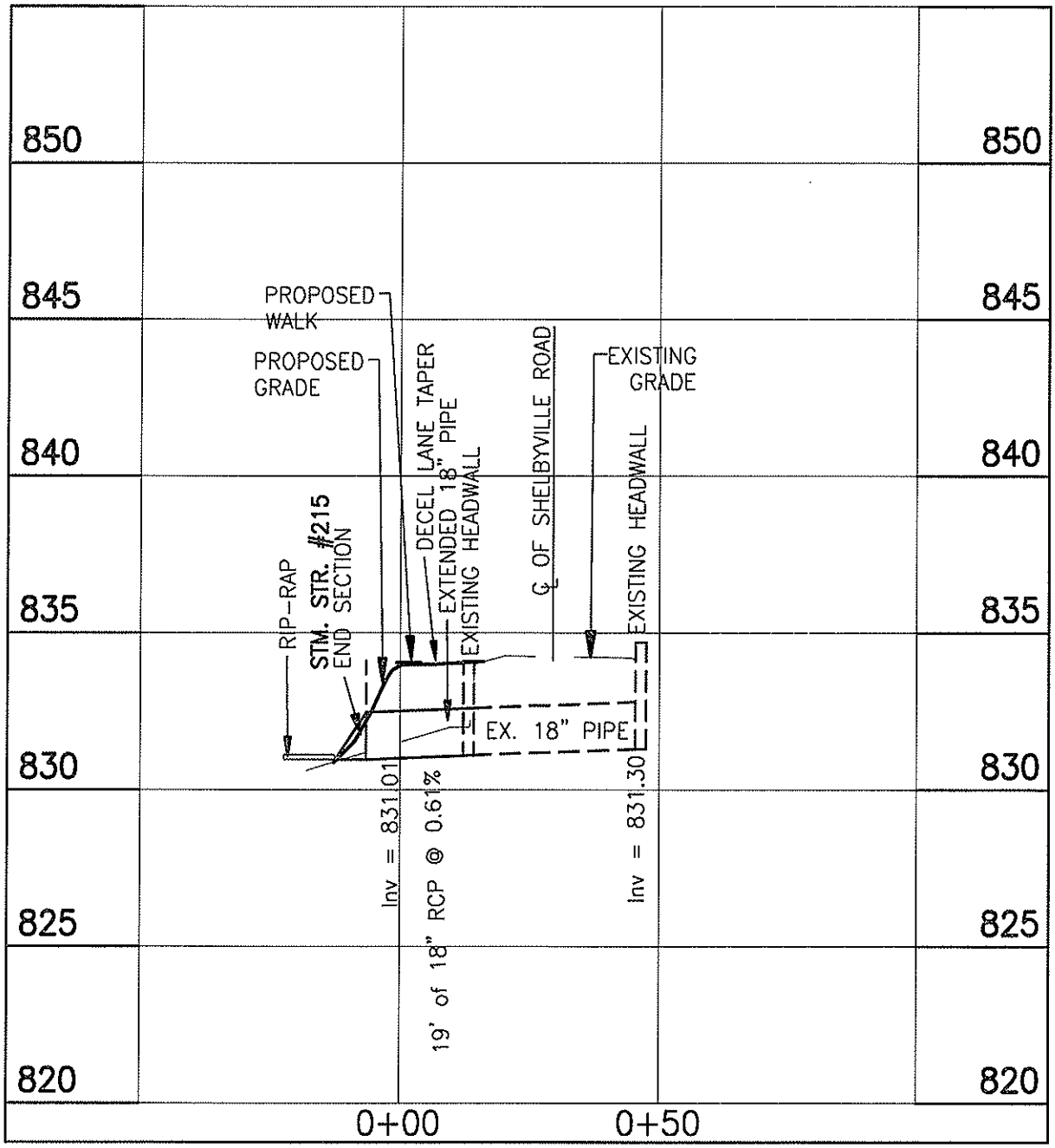
LOCATION: H:\2009\w090496\eng\exhibits\wetland exhibits.dwg
DATE/TIME: July 14, 2010 - 8:28am
PLOTTED BY: cortere



SCALES:
1" = 30' HOR
1" = 5' VER

EXHIBIT 3A
CURVERT AND ROAD CROSSING - AREA 1
PROFILE VIEW

SCALE: 1" = 30'
0 7.5 15 30

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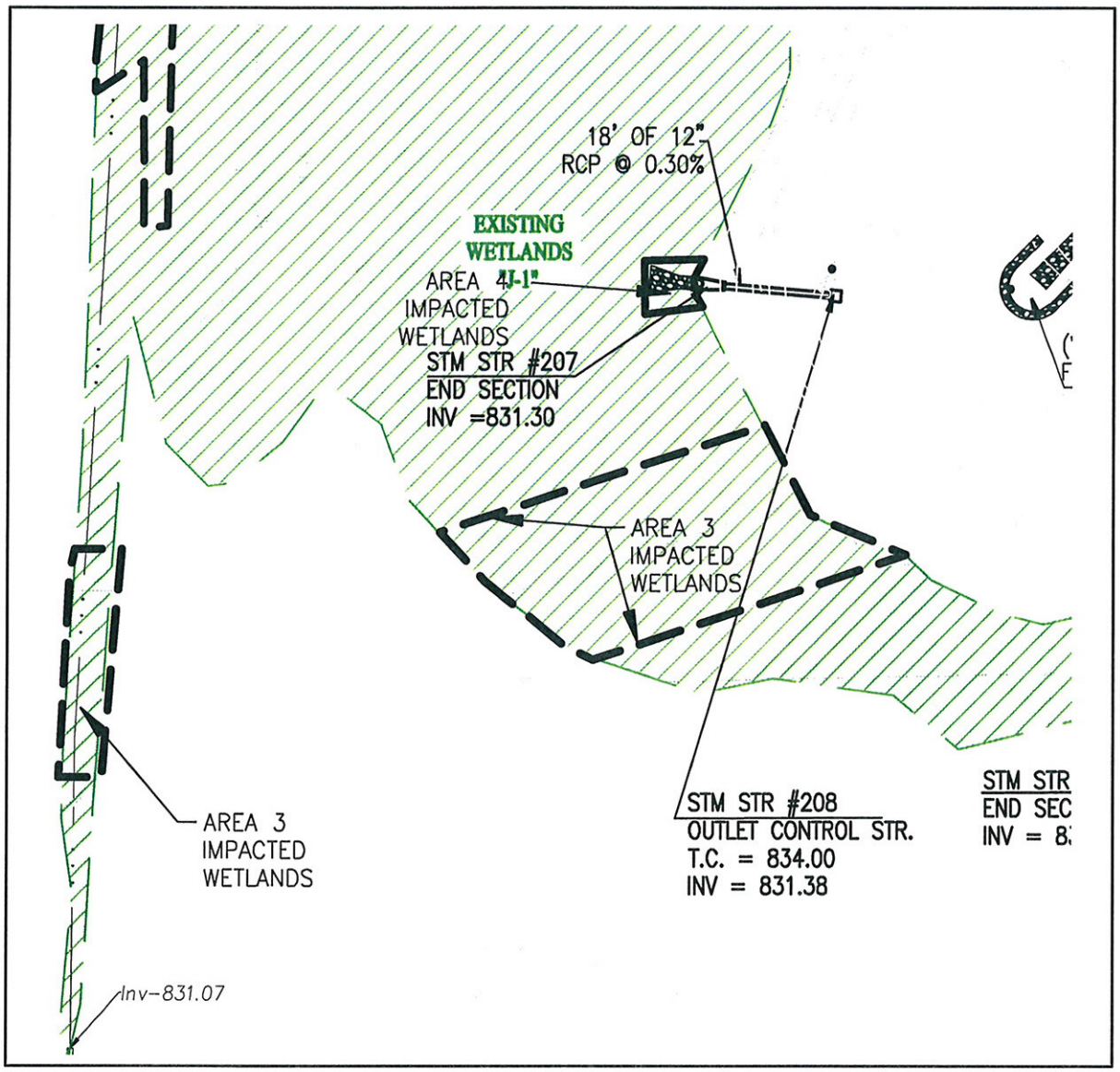
10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317|846-6611

Date: 12 JULY 2010

LOCATION: H:\2009\w090496\eng\exhibits\wetland exhibits.dwg
DATE/TIME: July 26, 2010 - 4:57pm
PLOTTED BY: cartere



AREA 3
AREA IMPACTED: .05 AC +/-

CY FILL OF
AREA IMPACTED: 0 CY +/-

NOTE: AREA TO BE RESTORED PER
WETLAND RESTORATION PLAN

AREA 4
AREA IMPACTED: .002 AC +/-

CY FILL OF
AREA IMPACTED: 38 CY +/-

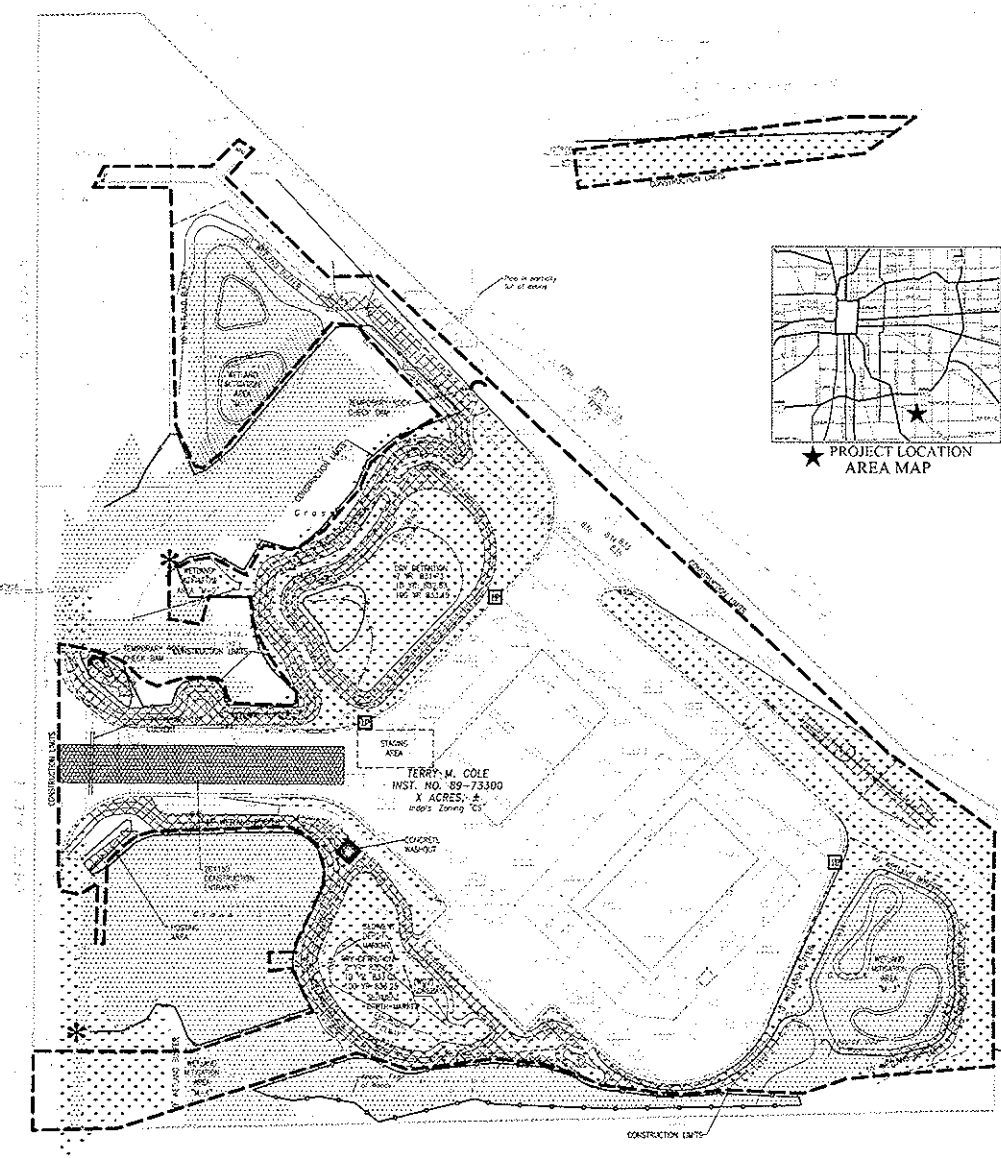
EXHIBIT 4
UTILITY CROSSING AND STORM OUTLET AREA 3 AND 4

PLAN VIEW

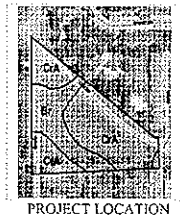
Date: 12 JULY 2010

SCALE: 1" = 30'
0 7.5 15 30

WEIHE ENGINEERS
10505 N. College Avenue
Indianapolis, Indiana 46280
weihe.net
317|846-6611



★ PROJECT LOCATION
AREA MAP



PROJECT LOCATION
SOILS MAP

EROSION CONTROL SPECIFICATIONS:

1) THIS PLAN IS DESIGNED AS AN ATTEMPT TO PREVENT ANY AND ALL SEDIMENT FROM LEAVING THE CONSTRUCTION SITE BY WAY OF EROSION. IF EROSION OR SEDIMENT FROM THE SITE IS TAKING PLACE, THE CONTRACTOR AND/OR OWNER SHALL TAKE PREVENTATIVE ACTION IMMEDIATELY. THE ENGINEER SHALL BE CONSULTED IN THE EVENT THIS HAPPENS.
2) TEMPORARY SEEDING IS TO BE APPLIED TO ANY DISTURBED AREA THAT WILL REMAIN UNALTERED IN EXCESS OF 15 DAYS.
3) PERMANENT SEEDING IS TO BE APPLIED IMMEDIATELY TO AREAS THAT HAVE ACHIEVED FINAL AND FINISHED GRADE.
4) PRESERVE EXISTING VEGETATION ON THE SITE WHENEVER AND WHEREVER POSSIBLE TO PREVENT TOPSOIL EROSION.
5) ALL SEDIMENT CAPTURING MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF THE CONSTRUCTION AREA THEY ARE INTENDED TO SERVICE.
ALL EROSION CONTROL MEASURES PROPOSED ARE TO BE PROPERLY MAINTAINED TO CONTINUE THEIR EFFECTIVENESS.
6) IF GRADING OCCURS DURING THE MONTHS OF DECEMBER, JANUARY OR FEBRUARY DORMANT SEEDING PROCEDURES SHALL BE USED.
7) DURING DRY WEATHER, KEEP LAWNS WATERED WITH SPRINKLERS OR OTHER APPROVED METHODS. RESEED ANY AREAS NOT GERMINATING OR DAMAGED AT INTERVALS AS MAY BE REQUIRED ACCORDING TO SEASONAL CONDITION AND/OR CONSTRUCTION ACTIVITY. WATER GRASS AND EXPECT NECESSARY WATERING UNTIL FULL STAND OF GRASS HAS BEEN OBTAINED.
8) THE IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER.
9) IT SHALL BE THE CONTRACTOR'S AND/OR OWNER'S RESPONSIBILITY TO MINIMIZE SEDIMENTATION (FROM ON-SITE CONSTRUCTION ACTIVITIES) FROM BEING DEPOSITED INTO ADJACENT PROPERTIES AND RECEIVING STREAMS/DITCHES IN STRICT COMPLIANCE WITH "RULE 5" (327 AC 15-5, CONSTRUCTION ACTIVITY STORM WATER RUNOFF CONTROL). IT SHALL ALSO BE THE CONTRACTOR'S AND/OR OWNER'S RESPONSIBILITY TO OBTAIN ANY APPROVALS REQUIRED FROM THE LOCAL AUTHORITY AND TO SUBMIT A COMPLETE NOTICE OF INTENT LETTER TO THE OFFICE OF WATER MANAGEMENT, INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PRIOR TO ANY CONSTRUCTION ACTIVITY.
10) FOR SEASONAL VARIATIONS - SEE SEASONAL SOIL PROTECTION CHART IN THESE PLANS.

SOILS TYPE LEGEND

BO BRONSTON SILTY CLAY LOAM
THE MAIN SOIL FEATURES THAT ADVERSELY AFFECT ENGINEERING USES OF THIS SOIL ARE A SEASONAL HIGH WATER TABLE, HIGH POTENTIAL FROST ACTION, MODERATE SHRINK-SWELL POTENTIAL, AND MODERATE PERMEABILITY. THIS SOIL HAS SEVERE LIMITATIONS FOR BUILDING SITES. THE SITES NEED TO BE ARTIFICIALLY DRAINED TO PREVENT WETNESS FROM BECOMING A PROBLEM. DWELLINGS AND SMALL BUILDINGS WITH BASEMENTS SHOULD NOT BE CONSTRUCTED ON THIS SOIL. USING PROPERLY DRAINED FOUNDATIONS AND FOOTINGS HELPS TO PREVENT STRUCTURAL DAMAGE FROM FROST ACTION AND SHRINKING AND SWELLING OF THE SOIL. THIS SOIL HAS SEVERE LIMITATIONS FOR LOCAL ROADS AND STREETS, BECAUSE OF SEASONAL HIGH WATER TABLE AND HIGH POTENTIAL FROST ACTION. INSTALLATION OF DRAINAGE DITCHES ALONG ROADS HELPS TO LOWER THE WATER TABLE AND PREVENT DAMAGE FROM FROST ACTION. THE BASE MATERIAL FOR ROADS AND STREETS SHOULD BE REPLACED OR STRENGTHENED WITH SUITABLE MATERIAL.

CVA CROSBY SILT LOAM
0 TO 2 PERCENT SLOPES. THE MAIN SOIL FEATURES THAT ADVERSELY AFFECT THE ENGINEERING USES OF THIS SOIL ARE A SEASONAL HIGH WATER TABLE, MODERATE SHRINK-SWELL POTENTIAL, HIGH POTENTIAL FROST ACTION, AND SLOW PERMEABILITY. THIS SOIL HAS SOME SEVERE LIMITATIONS FOR BUILDING SITES. THE SITES NEED TO BE ARTIFICIALLY DRAINED TO PREVENT WETNESS FROM BECOMING A PROBLEM. DWELLINGS AND SMALL BUILDINGS WITH BASEMENTS SHOULD NOT BE CONSTRUCTED ON THIS SOIL. USING PROPERLY DRAINED FOUNDATIONS AND FOOTINGS HELPS TO PREVENT STRUCTURAL DAMAGE FROM LOW STRENGTH AND SHRINKING AND SWELLING OF THE SOIL. THIS SOIL HAS SEVERE LIMITATIONS FOR LOCAL ROADS AND STREETS. THE BASE MATERIAL FOR ROADS NEEDS TO BE STRENGTHENED OR REPLACED WITH SUITABLE MATERIAL.

EROSION CONTROL NOTES

1. ALL DISTURBED AREAS SHALL BE SODDED OR DETAIL EXCEPT BUILDING PAD AND LANDSCAPE BEDS. SEE LANDSCAPE PLANS FOR LOCATION OF LANDSCAPE BEDS.
2. INSTALL SILT FENCE ALONG ALL PROPERTY BOUNDARIES ADJACENT TO CONSTRUCTION.
3. THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIAL IN THE STREET.

CONTACT PERSON FOR EROSION CONTROL & SEDIMENT PRACTICES

WEIHE ENGINEERS, INC.
SCOTT A. SHANKLIN, A.I.C.P.
INDIANAPOLIS, IN 46250
TELEPHONE (317) 846-6611
FAX (317) 843-0346
EMAIL: SHANKLIN@WEIHEENGINEERS.COM
CONTACT PERSON: DANIEL SHANKLIN

DISTURBED ACREAGE ±
3.38± AC.

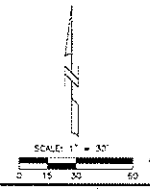
-WARNING-
THIS PLAN TO BE USED FOR EROSION CONTROL PURPOSES ONLY. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.

-NOTE-
THIS PLAN INDICATES EROSION CONTROL MEASURES REQUIRED AFTER SOIL STRIPPING AND PAD BUILDING HAS TAKEN PLACE. COORDINATE WITH DEVELOPER FOR MEASURES REQUIRED UNTIL PROPERTY TURNED OVER FOR DEVELOPMENT. COORDINATE WITH SOIL CONSERVATION DISTRICT REPRESENTATIVE FOR ANY OTHER MEASURES REQUIRED DUE TO SITE CONDITIONS.

LEGEND

- IP — INLET PROTECTION - USE SUBSURFACE INLET PROTECTION WITH OVERFLOW CAPABILITY
- PERMANENT/TEMPORARY SEEDING USE PLANTING CHART
- EROSION CONTROL BLANKET - USE SC150BN BIO-NET AS SUPPLIED BY NORTH AMERICAN GREEN OR APPROVED EQUAL
- CONSTRUCTION ENTRANCE (6" OF #2 STONE ON NON-WOVEN GEOTEXTILE FABRIC)
- STAGING AREA (SEE DETAIL)
- WETLAND SEEDING
- POSTING AREA - 4" PVC TUBE WITH END CAPS ATTACHED TO PROJECT CONSTRUCTION SIGN TO CONTAIN APPROVED CONSTRUCTION DRAWINGS AND PERMITS FOR INSPECTORS
- SF — SILT FENCE
- CONCRETE WASHOUT
- ROCK-CHECK DAM
- NOV MAP
- SITE DISCHARGE POINT

SEASONAL SOIL PROTECTION CHART



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Landscape Architecture
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weihe.net
317 | 846 - 6611
800 | 382 - 6408
317 | 843 - 0346 fax
ATLANTA WHITE, A.I.A., PRESIDENT

PROJECT NO. 02-2255
FIELD BOOK
DESIGNED BY
DRAWN BY
CHECKED BY
DATE

DATE
REVISIONS

PRELIMINARY NOT FOR CONSTRUCTION

JAMES K. SHINEMAN
REGISTERED
LANDSCAPE ARCHITECT
NO. LA02200032
STATE OF INDIANA
PRELIMINARY
NOT FOR CONSTRUCTION

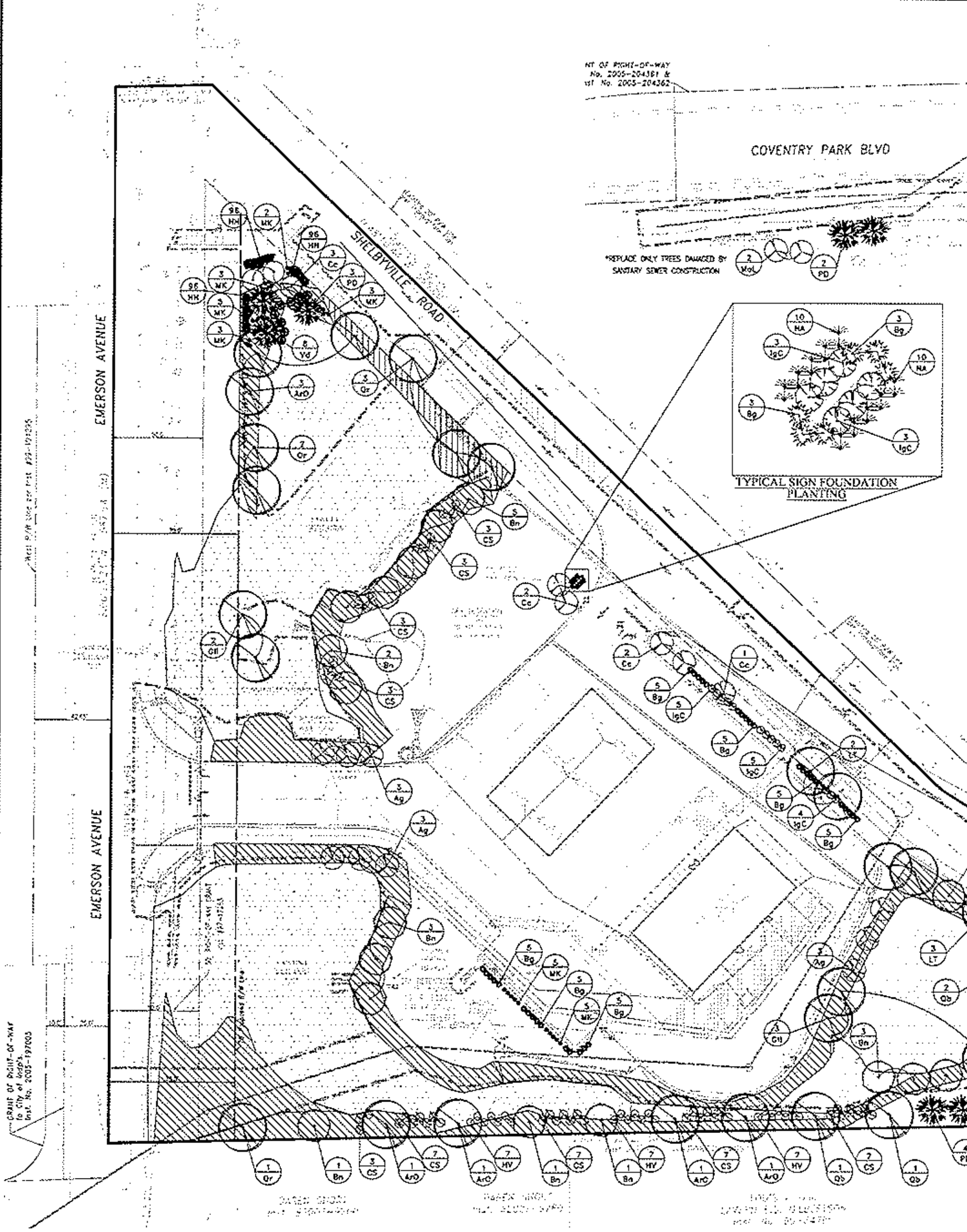
JAMES K. SHINEMAN P.E. (INDIANA)

PREPARED FOR
TurkeyHill

TURKEY HILL MINIT MARKETS STORE #001
5515 S. EMERSON AVE. INDIANAPOLIS, IN 46237
SWPPP (PHASE II)
Part of the 75.4 ± acre Emerson Square Commercial Center, Perry Township, Marion County, Indiana

SHEET NO.
C104

PROJECT NO.
w09.0496



LANDSCAPE PLAN NOTES:

1. SOD - ALL SOD SHALL BE CERTIFIED GRADE CULTIVATED GRASS SOD OF "ADVENTURE BLEND" TURF TYPE TALL FESCUE (BY GENERAL CONTRACTOR)
2. LANDSCAPE BED EDGE (TYP)
3. MULCH

WETLAND BUFFER PLANTINGS, (PRAIRIE SEED MIX)

WETLAND SEEDING, (STORMWATER SEED MIX)

GENERAL MULCH NOTE:
MULCH AROUND ALL PROPOSED LANDSCAPE MATERIAL UNLESS SPECIFIED OTHERWISE.

NOTE:
ANY EXISTING TREE(S) THAT MAY REQUIRE REMOVAL, BUT ARE NOT SHOWN ON THE PLAN AS BEING REMOVED MAY BE DONE SO, AS LONG AS THE TREE(S) ARE RELOCATED TO AN APPROVED ALTERNATIVE LOCATION ON SITE.

GENERAL NOTES

1. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE DESIGNER.
2. ALL SHRUBS PLANTING AREAS TO BE COVERED WITH 4" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. ALL GROUND COVER BEDS SHALL BE COVERED WITH 1" SHREDDED HARDWOOD BARK MULCH. BARK MULCH SHALL BE APPROVED BY LANDSCAPE DESIGNER AND SHALL BE UNIFORM IN TEXTURE AND COLOR AND SHALL BE OBTAINED FROM SAWMILL OR LUMBERING OPERATIONS. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED.
3. AN APPROVED PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING AND GROUND COVER BEDS AT RATES SPECIFIED BY MANUFACTURER FOR EACH VARIETY OF PLANT.
4. FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE DESIGNER BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODED STAKE INDICATING VARIETY AND SIZE OF TREE. ALL GROUND COVER AND MULCH BED LINES SHALL BE MARKED BY A HIGHLY VISIBLE PAINT LINE WITH OCCASIONAL WOOD STAKES FOR REFERENCE. ALL STAKES SHALL BE REMOVED FOLLOWING PLANTINGS OPERATIONS. LANDSCAPE DESIGNER RESERVES THE RIGHT TO ADJUST PLANT LOCATIONS ON SITE.
5. NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE DESIGNER PRIOR TO BID DATE IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT IDENTIFICATION AT NURSERY OR CONTRACTORS OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
6. ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, 1986 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
7. PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION OPERATIONS AND AS DIRECTED BY OWNER.
8. ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE DESIGNER. AT THE END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE DESIGNER SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
9. THE LANDSCAPE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES THAT MAY BE REQUIRED FOR HIS PORTION OF WORK.
10. PEAT MOSS TO BE USED ON PROJECT SHALL BE A DOMESTIC OR IMPORTED MATERIAL, CHOCOLATE BROWN IN COLOR AND COMPOSED OF PARTIALLY DECOMPOSED VEGETABLE MATERIAL. PEAT MOSS TO ALSO BE MILDLY ACIDIC IN CHARACTER AND SHALL MEET APPROVAL OF LANDSCAPE DESIGNER.
11. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE DESIGNER IN WRITING PRIOR TO BID DATE OF ANY PLANTS THAT HE FEELS MAY NOT SURVIVE IN LOCATIONS NOTED.
12. ALL LANDSCAPING PLANTINGS TO BE MAINTAINED FOR 1 YEAR FOLLOWING TURNOVER. MAINTENANCE TO INCLUDE WATERING, WEEDING, CULTIVATION, MULCHING, MOWING AND ALL OTHER NECESSARY OPERATIONS REQUIRED FOR PROPER ESTABLISHMENT OF PLANTINGS. NOTE: AT END OF MAINTENANCE PERIOD, CONTRACTOR TO REMOVE GUYING AND STAKING FROM TREES.
13. CONTRACTOR TO SUBMIT UNIT PRICES ON EVERY TYPE OF WORK AS REQUESTED BY LANDSCAPE DESIGNER.
14. BACKFILL FOR TREE AND SHRUB PLANTING SHALL BE 75% APPROVED TOPSOIL AND 25% APPROVED PEAT MOSS. TOP LAYER OF BACKFILL SHALL BE 100% EXISTING TOPSOIL. A 5-10-5 ANALYSIS SLOW RELEASE FERTILIZER SHALL BE INCORPORATED INTO BACKFILL AT APPROVED RATES.
15. PROVIDE MINIMUM 4" PLANTING SOIL IN ALL GROUND COVER AND FLOWER AREAS WITH MIXTURE COMPRISING OF ONE PART COMMERCIAL GRADE "POTTING SOIL," 5 PARTS TOPSOIL AND 4 PARTS PEAT MOSS. A FULL 4" LAYER OF APPROVED SHREDDED FIBROUS PEAT MOSS MAY BE USED IN LIEU OF PLANTING MIX.
16. PLANTS SHALL BEAR A TAG SHOWING GENUS, SPECIES AND VARIETY.
17. PLANTS SHALL BE CERTIFIED BY THE STATE OF INDIANA DEPARTMENT OF NATURAL RESOURCES AND FREE FROM DISEASE OR HAZARDOUS INSECTS.

LANDSCAPE RECOMMENDATIONS	REQUIRED	PROVIDED
REQUIREMENT:		
SHELBYVILLE RD:		
FRONT YARD SCREENING: 1 SHADE TREE PER 40' OR 1 UNDERSTORY (UO) TREE PER 25'. MAY BE GROUPED TOGETHER NOT TO EXCEED 50' (SECTION 731-214(g)(1)(b.1))	6	6
PLANT MATERIAL SCREEN: COMPACT HEDGE OF EVERGREEN OR DENSELY TWIGGED DECIDUOUS SHRUBS, MIN 36" HEIGHT MIN 75% OF LINEAR DISTANCE OF PARKING AREA (SECTION 731-214(g)(1)(b.2.A))	50	50
EMERSON AVE:		
FRONT YARD SCREENING: 1 SHADE TREE PER 40' OR 1 UNDERSTORY (UO) TREE PER 25'. MAY BE GROUPED TOGETHER NOT TO EXCEED 50' (SECTION 731-214(g)(1)(b.1))	5	5
PLANT MATERIAL SCREEN: COMPACT HEDGE OF EVERGREEN OR DENSELY TWIGGED DECIDUOUS SHRUBS, MIN 36" HEIGHT MIN 75% OF LINEAR DISTANCE OF PARKING AREA (SECTION 731-214(g)(1)(b.2.A))	27	27
SOUTH SIDE OF SITE		
SIDE AND REAR TRANSITIONAL YARDS, IF A SOLID WALL OR SOLID FENCE IS NOT USED, SHALL BE PROVIDED AND MAINTAINED ACCORDING TO ONE (1) OF THE FOLLOWING MINIMUM STANDARDS: I. A COMBINATION OF TREES AND SHRUBS: (A) TREES - TREES SHALL BE PLANTED IN ACCORDANCE WITH THE STANDARDS SPECIFIED FOR REQUIRED FRONT YARDS (SEE SECTION 731-214(G)(7)(B)), AND (B) SHRUBS - SHRUBS SHALL BE PLANTED SO THAT ONE HUNDRED (100) PERCENT OF THE LINEAR DISTANCE OF THE REQUIRED TRANSITIONAL YARD IS SCREENED. SHRUBS SHALL BE PLANTED AT A MAXIMUM OF FOUR (4) FEET ON CENTER OF LINEAR DISTANCE ALONG THE REQUIRED TRANSITIONAL YARD. THE SHRUBS SHALL HAVE A MINIMUM ULTIMATE HEIGHT OF SIX (6) FEET AND SHALL BE OTHER EVERGREEN OR DENSELY TWIGGED DECIDUOUS SHRUBS, OR II. LOW BRANCHING AND DENSELY TWIGGED DECIDUOUS ORNAMENTAL TREES SHALL BE PLANTED TO MAINTAIN A SPACING OF TWELVE AND ONE-HALF (12 1/2) FEET ON CENTER, OR III. DENSELY BRANCHED EVERGREEN TREES SHALL BE PLANTED TO MAINTAIN A SPACING OF TWELVE AND ONE-HALF (12 1/2) FEET ON CENTER, OR IV. A COMBINATION OF I, II, OR III TO BE MAINTAINED SO THAT ONE HUNDRED (100) PERCENT OF THE LINEAR DISTANCE SHALL BE SCREENED. EXCEPTION: EXISTING TREES AND SHRUBS MAY BE USED TO SCREEN COMMERCIAL USES. HOWEVER, REQUIRED TRANSITIONAL YARDS MUST BE SUPPLEMENTED WHERE SPARSELY VEGETATED TO MAINTAIN A DENSE VISUAL BARRIER TO A HEIGHT OF SIX (6) FEET.		

PLANT SCHEDULE

PLANT KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	B&B	[illegible]	CONT.	ON CENTER SPACING	SPECIAL INSTRUCTIONS
	CANOPY DECIDUOUS TREES								
ArO	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2"	7	X			SEE PLAN	
LT	LIRIODENDRON TULIPIFERA	TULIP TREE	2 1/2"	5	X			SEE PLAN	
Qr	QUERCUS RUBRA	RED OAK	2 1/2"	6	X			SEE PLAN	
GtI	GLEDITSIA TRIACANTHOS INERMIS 'SKYCOLE' SKYLINE	SKYCOLE HONEYLOCUST	2 1/2"	5	X			SEE PLAN	
Qb	QUERCUS BICOLOR	SWAMP WHITE OAK	2 1/2"	7	X			SEE PLAN	
	ORNAMENTAL TREES								
Ag	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	1 1/2"	6	X			SEE PLAN	
MoL	MALUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	1 1/2"	2			X	SEE PLAN	
Cc	CERCIS CANADENSIS	EASTERN REDBUD	1 1/2"	6			X	SEE PLAN	
Bn	BETULA NIGRA	RIVER BIRCH	8'	17			X	SEE PLAN	
	EVERGREEN TREES								
PD	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	6-7'	7	X			SEE PLAN	MIN. 36"
	DECIDUOUS SHRUBS								
EAC	EUONYMUS ALATA 'COMPACTA'	DWARF BURNING BUSH	#5	5			X	SEE PLAN	MIN. 36"
CS	CORNUS SERICEA BAILEYI	REDTWIG DOGWOOD	#5	50			X	SEE PLAN	MIN. 36"
HV	HAMAMELIS VERNALIS	VERNAL WITCH HAZEL	#5	21			X	SEE PLAN	MIN. 36"
Vd	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	#5	9			X	SEE PLAN	MIN. 36"
	EVERGREEN SHRUBS								
Bg	BUXUS X KOREANA 'GREEN VELVET'	GREEN VELVET BOXWOOD	24"	41			X	36" O.C.	
IgC	ILEX GLABRA 'CHAMZIN'	NORDIC HOLLY	#5	20			X		MIN. 36"
	ORNAMENTAL GRASSES								
MA	MISCANTHUS SINENSIS 'KLEINE FONTANE'	LITTLE FOUNTAIN DWARF SILVER GRASS	#3	18			X	36" O.C.	
	PERENNIALS								
HH	HEMEROCALLIS 'HAPPY RETURN'	HAPPY RETURNS YELLOW DAYLILY	#1	288			X	24" O.C.	
HA	HEMEROCALLIS 'AUGUST FLAME'	AUGUST FLAME RED DAYLILY	#1	20			X	24" O.C.	

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ERIC A. CARTER, RLA 20500151

TURKEY HILL MINIT MARKETS STORE #601
5515 S. EMERSON AVE INDIANAPOLIS, IN 46237

LANDSCAPE PLAN

SHEET NO.
L101

PROJECT NO.
w09.0496

STORMWATER SEED MIX

A wetland seed mix for saturated soils in a detention pond or for seeding a saturated rain garden, this mix will tolerate highly fluctuating water levels and poor water quality associated with urban stormwater wetlands and ponds. For detention basins that experience long, dry periods, use the "Economy Prairie Seed Mix" in the upper third to half of the basin area. This seed mix includes at least 10 of 13 native permanent grass, sedge or rush species and 6 of 12 native forb species.

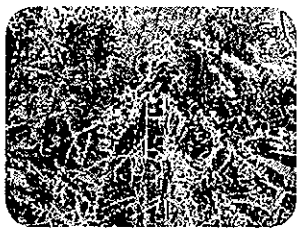
Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges / Rushes		
Carex cristatella	Crested Oval Sedge	1.00
Carex lurida	Bottlebrush Sedge	2.00
Carex vulpinoidea	Brown Fox Sedge	6.00
Elymus virginicus	Virginia Wild Rye	12.00
Glyceria striata	Fowl Manna Grass	1.25
Juncus effusus	Common Rush	1.00
Juncus torreyi	Torrey's Rush	0.25
Leersia oryzoides	Rice Cut Grass	1.00
Panicum virgatum	Switch Grass	8.00
Scirpus atrovirens	Dark Green Rush	1.00
Scirpus cyperinus	Wool Grass	0.50
Scirpus fluviatilis	River Bulrush	0.25
Scirpus validus	Great Bulrush	6.00
	Total Oz./Acre	**40.25**
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	**460.00**
Forbs		
Alisma spp.	Water Plantain Mix	4.25
Asclepias incarnata	Swamp Milkweed	1.50
Bidens spp.	Bidens Mix	2.00
Helenium autumnale	Sneezeweed	2.00
Lycopus americanus	Common Water Horehound	0.25
Mimulus ringens	Monkey Flower	1.00
Penthorum sedoides	Ditch Stonecrop	0.50
Polygonum pensylvanicum	Pinkweed	4.00
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	1.00
Sagittaria latifolia	Common Arrowhead	1.00
Senna hebecarpa	Wild Senna	1.00
Thalictrum dasycarpum	Purple Meadow Rue	2.00
	Total Oz./Acre	**20.50**

Sold in 1/4 Acre Increments		
1 or More Acres	1/2 Acre	1/4 Acre
$775 (per acre)	$445	$255

Apply at 32.5 PLS pounds per acre

FEATURED SPECIES

Scirpus cyperinus
Wool Grass
Wet Prairie Sedge



Blooming from mid-to-late summer, this interesting and attractive sedge with loose, 7" rusty seed heads becomes wooly with age. With dense tussocks of linear-curving basal leaves and short-branching rhizomes, it is well-suited to naturalizing in moist-to-wet soil and full sun. It will commonly reach heights of 4'-5'.

Rudbeckia subtomentosa
Sweet Black-Eyed Susan
Mesic Prairie Forb

This wonderful plant grows up to 5' tall and produces a stunning display of bright yellow and brown flower heads in late summer to early fall. This plant prefers full-to-partial sun and medium soil moisture.

Prices subject to change without notice. Visit www.JFNew.com for current pricing, terms of sale, and information on our full installation and management services.

ECONOMY PRAIRIE SEED MIX

This mix is an economical way to establish a prairie. Several of the species have been added to provide quick color and create an aesthetically pleasing prairie. Adding seed or plant plugs at a later date is a wonderful way to increase the prairie's richness and diversity. This seed mix includes at least 6 of 7 native permanent grass and sedge species and 9 of 13 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Andropogon gerardii	Big Bluestem	16.00
Bouteloua curtipendula	Side-Oats Grama	18.00
Carex spp.	Prairie Sedge Mix	1.00
Elymus canadensis	Canada Wild Rye	16.00
Panicum virgatum	Switch Grass	2.50
Schizachyrium scoparium	Little Bluestem	24.00
Sorghastrum nutans	Indian Grass	18.00
	Total Oz./Acre	**95.50**
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	**460.00**
Forbs		
Asclepias syriaca	Common Milkweed	0.50
Asclepias tuberosa	Butterfly Weed	1.00
Aster laevis	Smooth Blue Aster	0.25
Aster novae-angliae	New England Aster	0.75
Chamaecrista fasciculata	Partridge Pea	12.00
Coreopsis lanceolata	Sand Coreopsis	5.00
Echinacea purpurea	Broad-Leaved Purple Coneflower	7.50
Heliopsis helianthoides	False Sunflower	0.25
Lupinus perennis	Wild Lupine	0.50
Monarda fistulosa	Wild Bergamot	0.25
Pycnanthemum virginianum	Common Mountain Mint	0.50
Ratibida pinnata	Yellow Coneflower	3.50
Rudbeckia hirta	Black-Eyed Susan	8.00
	Total Oz./Acre	**40.00**

Sold in 1/4 Acre Increments		
1 or More Acres	**1/2 Acre**	**1/4 Acre**
$395 (per acre)	**$237**	**$125**

Apply at 37.2 PLS pounds per acre

FEATURED SPECIES

Sorghastrum nutans
Indian Grass
Mesic Prairie Grass

A majestic grass of the tallgrass prairie, this clump-forming species grows up to 9' tall, blooming from late summer to early fall. Preferring full sun and dry-to-moist soils, with its plume-like, golden seed heads, this plant attracts birds and adds visual interest to the landscape.

Echinacea purpurea
Broad-Leaved Purple Coneflower
Dry-to-Mesic Prairie Forb

This 3'-5' tall plant blooms from early to late summer. Its 2"-4" diameter flower heads are favorite nectar sources for butterflies. In the fall, the seed heads attract birds. It prefers sunny-to-partially sunny areas with dry soils.

Prices subject to change without notice. Visit www.JFNew.com for current pricing, terms of sale, and information on our full installation and management services.

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Web site: www.atcassociates.com

August 3, 2010

Mr. Brad C. Baldwin
Indiana Department of Environmental Management
Office of Water Quality
Section 401 Water Quality Certification/State Isolated Wetlands Program
100 North Senate
Indianapolis, IN 46204

Phone: (317) 233-8488 / Email: bbaldwin@idem.IN.gov

Subject: 4.548-Acre Property, Proposed Turkey Hill Mini Markets Store 601 South Emerson Avenue & Shelbyville Road, Indianapolis, Indiana 46237

Dear Mr. Lindley:

ATC Associates Inc. (ATC), acting on behalf of TH Midwest, the applicant, has been contracted to apply for a permit to fill 0.21 acre of waters of the United States (U.S.) under U.S. Army Corps of Engineers (USACE) Louisville, Detroit, and Chicago Districts Regional General Permit and the Indiana Department of Environmental Management (IDEM) Section 401 Water Quality Certification at a proposed Turkey Hill Minit Markets facility located on an 4.548-acre property located on the southeast corner of the intersection of South Emerson Avenue and Shelbyville Road, Indianapolis, Marion County, Indiana, the property (39.68692860825265N, -86.08172178268432W).

The property consists of an approximate triangular routinely mowed grassy lot with a wooded and overgrown fencerow along the southern property boundary. No buildings or structures are located on the property. The surrounding area consists of a mix of residential, commercial, and undeveloped properties. The topography of the area is relatively flat with a slight slope to the west toward Wetnight Ditch located adjacent to the west across South Emerson Avenue. The property is bordered by residential properties, a veterinary hospital, and a medical office across Shelbyville Road to the north; a residence to the east; residential properties and a pond to the south; and residential properties, undeveloped land, and a commercial building undergoing finish construction across South Emerson Avenue to the west.

A routine wetlands delineation at the property was performed by ATC. A 0.91-acre wetland was delineated onsite. After the onsite wetland was identified, the development plans were altered to minimize wetland impacts. Adverse environmental effects with the current site plans are limited to 0.26 acre of wetland impacts. The proposed project consists of the construction of a Turkey Hill Minit Markets gasoline station and convenience store with sidewalks, two access driveways, wetland mitigation areas, and two dry stormwater detention basins, which will pre-treat stormwater prior to discharging to the wetlands. Based on plans provided to ATC, the area of proposed ground disturbing activity consists of nearly the entire site, with the exception of the portions of the wetland subject to restoration and enhancement. The construction of the proposed project will provide improved access to goods and services at a modern facility to the surrounding community within an urban area. The design of the proposed facility allows for creation of community improvements and new jobs while improving onsite wetlands in a headwater habitat area. The expansion of the onsite wetlands will be created by excavating areas around the existing wetlands to depths at and deeper than the existing wetlands to create varied habitats. The proposed onsite wetland mitigation will replace invasive plant species and limited wildlife habitat with high quality desirable wetland species and diverse wildlife habitat as well as improve upon the existing wetland's pollution filtering capability, which will assist in improvement of downstream water quality.

Wetland loss of 0.21 acre will be mitigated onsite by creation of 0.38 acre of emergent wetland planted with desirable wetland species with the remaining 0.72 acre of wetland enhanced by eradication of existing invasive species (*Phalaris arundinacea, Typha spp*., etc.) and replanting with desirable wetland species. Seed mixes planned for use in the wetland mitigation and buffer areas are attached. Temporary impacts of 0.05 acre within the existing wetland will be restored at a 1:1 ratio as part of the wetland enhancement. Excavated materials will be contained in an upland stockpile area. The created, enhanced and restored emergent wetland areas will total 1.10 acre resulting in a total mitigation ratio of 4.2 to 1 (1.8:1 creation, 2.4:1 enhancement). The construction of the mitigation site will commence concurrently with construction of the proposed facility. A 3-year monitoring plan consisting of vegetation and hydrology monitoring will be implemented to meet IDEM success criteria. The mitigation area will be legally protected in perpetuity by a deed restriction and proper signage identifying the mitigation area as a protected conservation area will be installed.

The site will be monitored for three consecutive years, at a minimum, to meet the criteria of two consecutive years where the site meets or exceeds the IDEM Section 401 Water Quality Certification success criteria. The site will contain greater than 50% dominant vegetation with an indicator status of FAC or wetter; less than 15% areal cover of *Phalaris arundinacea* and/or *Typha spp*; free of any *Lythrum* salicara, *Phragmites australis,* or *Myriophyllum spicatum*; less than 10% open water; a minimum of 50% areal cover of native species (excluding *Typha spp*.) in shallow emergent communities, 30% in deep emergent communities (average water depth >8 in.), and 10% floating aquatic communities (average water depth >1.5 ft.). ATC will set up fixed observation, monitoring, and photographs points at six locations within the wetland area to monitor wetland vegetation and hydrology. A wetland delineation will be conducted at the site in years two and three of the monitoring plan. An annual monitoring report, including as-built plans and documentation of monitoring activities, will be submitted to IDEM and the USACE by December 31st of each monitoring year.

The permit application and associated documents are presented in the attached report. Should you have any questions please contact Mr. David Sedlick at (614) 367-7840.

ATC Associates Inc.

David J. Sedlick
Project Manager

Attachments

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August 12, 2010 VIA EMAIL

Ms. Sarah J. McKeown
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and

Mr. Brad C. Baldwin
Indiana Department of Environmental Management
Office of Water Quality
Section 401 Water Quality Certification/State Isolated Wetlands Program
100 North Senate
Indianapolis, IN 46204
Phone: (317) 233-8488 / Email: bbaldwin@idem.IN.gov

Subject: Letter of Addendum to USACE & IDEM Permit Applications
Mitigation and Monitoring Plan for Proposed Turkey Hill Minit Markets Store 601
4.548-Acre Property at South Emerson Avenue & Shelbyville Road
Indianapolis, Indiana 46237

Dear Ms. McKeown and Mr. Baldwin:

ATC Associates Inc. (ATC), acting on behalf of TH Midwest, the applicant, submitted permit applications and associated documents dated August 3, 2010 for a United States Army Corps of Engineers (USACE) Louisville, Detroit, and Chicago Districts Regional General Permit and an Indiana Department of Environmental Management (IDEM) Section 401 Water Quality Certification for impacts associated with a proposed Turkey Hill Minit Markets facility located on an 4.548-acre property located on the southeast corner of the intersection of South Emerson Avenue and Shelbyville Road, Indianapolis, Marion County, Indiana, the property.

This letter is a response to the comments received by ATC on August 5, 2010 and subsequent telephone conversation with the USACE regarding the mitigation plan associated with the permit application and serves as an addendum to the August 3, 2010 permit applications.

General Considerations

The property is located in the Upper White River watershed and Little Buck Creek sub-watershed (Hydrologic Unit Code 05120201-130-090). The 0.91-acre wetland delineated on-site by ATC is connected to Wetnight Ditch via a culvert under South Emerson Avenue, as apparent on the U.S.G.S. *Beech Grove, Indiana* Topographic Map. Wetnight Ditch flows into Derbyshire Creek, which is a tributary of Little Buck Creek. A Preliminary Jurisdictional Determination Form was presented in Appendix C of the permit applications.

ATC was tasked with determining viable mitigation options for the proposed impacts to the presumed federally-jurisdictional emergent wetland areas on the property. The following options were considered per the criteria listed in the Compensatory Mitigation for Losses of Aquatic Resources (33 CFR Part 332):

Mitigation Bank Credits: The property is not located in a coverage area for a mitigation bank. The lower Division of Upper White River watershed is not serviced by the Central Indiana Mitigation Bank.

In-lieu fees program credits: In-lieu fee program credits are not permitted in Indiana.

Permittee-responsible mitigation under a watershed approach: Given the difficulty in finding willing landowners within the watershed with available real property suitable for creation of mitigation wetlands in suburban Indianapolis and surrounding counties, ATC determined that off-site mitigation in the watershed was not a feasible option for the proposed project site.

Permittee-responsible mitigation through on-site and in-kind mitigation: After site development plans were altered to minimize wetland impacts to the extent feasible, on-site in-kind mitigation was the best practicable alternative to mitigate for the proposed wetland impacts.

Mitigation Plan

Objectives: The objective of the mitigation plan is to create 1.10 acre of emergent wetlands surrounded by a vegetative buffer by enhancing and restoring existing routinely disturbed wetland areas currently dominated by invasive plant species and expanding these enhanced and restored wetland areas to create an urban headwater wetland conservation area. The proposed on-site wetland mitigation will replace invasive plant species and limited wildlife habitat with high quality desirable wetland species and diverse wildlife habitat as well as improve upon the existing wetland's pollution filtering capability, which will assist in improvement of water quality in the watershed of the project impacts. The urban location of the site will also provide educational opportunities, including watershed awareness, and promote green construction practices.

Site selection: As stated, permittee-responsible mitigation through on-site and in-kind mitigation was determined as the best practicable alternative to mitigate for the proposed wetland impacts. The presence of an existing poor quality wetland, hydric soils, a low water table, and its headwater location were determined to be favorable conditions for on-site in-kind mitigation.

Site protection instrument: The mitigation wetland and buffer areas will be protected in perpetuity according to means described in the Compensatory Mitigation for Losses of Aquatic Resources (33 CFR Part 332) by a recorded environmental covenant that will ensure long-term protection of the site.

Baseline information: A routine wetlands delineation at the property was performed by ATC. A Wetland Delineation report dated May 4, 2010 was included in the permit applications as Appendix B. A 0.91-acre emergent wetland was delineated on-site. Emergent vegetation in the wetland consisted primarily of *Phalaris arundinaca* and *Typha spp.* Wetland hydrology exists at the property as a result of a low water table, stormwater from off-site sources, and direct precipitation. Historic information indicates that the property was agricultural in nature from at least the 1930's to the 1970's. At some time between 1971 and 1987, a drainage ditch was constructed on the northwest portion of the property, which is part of the current on-site wetland. The property appears to have been routinely mowed for several years.

Determination of credits: The proposed project consists of the construction of a Turkey Hill Minit Markets gasoline station and convenience store with sidewalks, two access driveways, wetland mitigation areas, and

two dry stormwater detention basins, which will pre-treat stormwater prior to discharging to the wetlands. Adverse environmental effects with the current site plans are limited to 0.26 acre of wetland impacts. Wetland loss of 0.21 acre will be mitigated on-site by creation of 0.38 acre of emergent wetland planted with desirable wetland species with the remaining 0.72 acre of wetland enhanced by eradication of existing invasive species (*Phalaris arundinacea, Typha spp.*, etc.) and replacing with desirable emergent wetland species. Temporary impacts of 0.05 acre within the existing wetland will be restored at a 1:1 ratio as part of the wetland enhancement. The created, enhanced and restored emergent wetland areas will total 1.10 acre resulting in a total mitigation ratio of 4.2 to 1 (1.8:1 creation, 2.4:1 enhancement). Given the location of the existing wetlands on-site, their proximity to existing roadways, property boundaries, existing easements, and the restrictions of the urban setting of the property, a 50-foot vegetated buffer around the wetland areas was not possible. In lieu of a larger buffer, wetland areas were expanded to the maximum area feasible with buffers of approximately 10 feet surrounding them. Many of the areas outside of the buffer will consist of maintained vegetation and other permeable surfaces such as mowed grass, landscaping, and dry stormwater detention areas.

Mitigation work plan: The construction of the mitigation site will commence with an aggressive treatment of existing invasive plant species by approved topical herbicides according to manufacturer's specifications. These activities will commence concurrently with construction activities associated with the proposed facility. The expansion of the on-site wetlands will be created by excavating areas around the existing wetlands to depths at and deeper than the existing wetlands to create varied habitats. Treated wetland areas and excavated and graded areas will be heavily planted with native seed mixes that also include a temporary erosion control cover annual grass. Seed mixes planned for use in the wetland mitigation and buffer areas are included in the permit application. Any excavated materials will be contained in an upland stockpile area. Detailed site plans, including erosion contrail methods, vegetation, grading, and cross-section views, are included in the permit applications.

Maintenance plan: Prior to completion of construction activity, permanent visible signage demarcating and labeling the boundaries of the mitigation site as a wetland and wildlife conservation and mitigation area will be installed. Once initial construction is completed, an operations and maintenance (O&M) plan for store personnel, including maintenance and grounds keeping crews, will be kept at the site and implemented. The O&M plan will instruct personnel with regard to "do not mow" areas and proper litter removal from the protected areas. Any major site incidents (vandalism, acoidents, etc.) will be reported to TH Midwest management, the USACE, and IDEM, and will be promptly mitigated under the direction of USACE and IDEM. A five-year monitoring plan consisting of vegetation and hydrologic monitoring is detailed below.

Performance standards: At the end of the five-year monitoring period and for a minimum of two consecutive years preceding, the site will meet or exceed the following criteria: the site will contain 1.10 acre or greater of emergent wetland habitat; the wetland will consist of more than 50% dominant vegetation that has an indicator status of Facultative (FAC) or wetter; contain less than 15% areal cover of *Phalaris arundinacea* and/or *Typha spp.*; free of any *Lythrum salicara*, *Phragmites australis,* or *Myriophyllum spicatum*; less than 10% open water; a minimum of 50% areal cover of native species (excluding *Typha spp.*) in shallow emergent communities, 30% in deep emergent communities (average water depth >8 in.), and if present, less than 10% floating aquatic communities (average water depth >1.5 ft.), and will be surrounded by a vegetated natural buffer as shown on the site plans.

Monitoring requirements: A five-year monitoring plan consisting of vegetation and hydrology monitoring will be implemented to meet USACE and IDEM success criteria. Fixed observation, monitoring, and photographs points will be set up at six locations within the wetland area to monitor wetland hydrology and vegetation, including invasive species. Photographs will also be taken of the buffer areas, site boundaries, and other site features. The site will be monitored for a minimum of five consecutive years beginning in

the growing season following completion of construction activities. At the end of the five-year monitoring period the site is expected to meet the aforementioned performance standards as well as the criteria of two consecutive years of the site meeting or exceeding the IDEM Section 401 Water Quality Certification success criteria. A wetland delineation will be conducted at the site in years four and five of the monitoring plan. An annual monitoring report, including as-built plans, annual photographs, water levels, and other documentation of monitoring activities, will be submitted to IDEM and the USACE by December 31st of each monitoring year.

Long-term management plan: As stated, the mitigation area will be legally protected in perpetuity and permanent signage identifying the mitigation area as a protected conservation area will be maintained. TH Midwest will maintain the site as previously detailed (see *Maintenance plan).* Site maintenance responsibilities would be transferred to future property owners should TH Midwest sell or grant the property and would coordinate the transfer of responsible party status with the USACE and IDEM.

Adaptive management plan: In the case that the project does not appear to be progressing toward meeting the performance standards as anticipated, TH Midwest will notify the USACE District Engineer and IDEM as soon as possible. Appropriate remedial measures would then be implemented under the direction of the USACE and IDEM. Potential contingency plans include re-seeding or re-planting of vegetation; additional herbicide treatments, direct removal, or burning to control invasive species; or additional site grading to increase hydrology. Invasive species will continue to be monitored and managed throughout the five-year monitoring period.

Financial assurances-As the responsible party, TH Midwest, is committed to satisfy the conditions of the permits with the willingness to engage any necessary remedial efforts prior to release of the monitoring obligation, and to the subsequent long-term maintenance of the property and its structures and grounds.

This mitigation plan will be implemented per the Compensatory Mitigation for Losses of Aquatic Resources (33 CFR Part 332). Should you have any questions please contact Mr. David Sedlick at (614) 367-7840.

ATC Associates Inc.

David J. Sedlick
Project Manager