

GENERAL NOTES:

- THE LOCATIONS OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN TO SHIVE-HATTERY, INC. AND NOT SHOWN ON THIS DRAWING. THE VERIFICATION OF EXISTENCE OF, AND THE DETERMINATION OF THE EXACT LOCATION OF, UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR(S).
- IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
- THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE MOST RECENT EDITION OF THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SHALL APPLY TO THIS PROJECT FOR ALL WORK NOT SPECIFIED IN THE CONTRACT DOCUMENTS.
- NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
- ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
- REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED BY CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF IOWA.
- ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- ALL DEBRIS AND TRASH ENCOUNTERED DURING CONSTRUCTION WITHIN THE PROJECT LIMITS, OR DIRECTED BY THE ENGINEER, SHALL BE PROPERLY DISPOSED OF ACCORDING TO THE PROJECT REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING THAT IS REQUIRED AT NO ADDITIONAL COST TO THE DIVISION.
- REPAIR OR REPLACE DAMAGE TO EXISTING FACILITIES (TILE, UTILITIES, FENCES, ETC.) DESIGNATED TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL AREAS DISTURBED BY CONSTRUCTION, INCLUDING STAGING AREAS AND HAUL ROUTES, ARE TO BE REWORKED TO THEIR EXISTING CONDITIONS AND SEEDED AT NO ADDITIONAL COST TO THE DIVISION IF OUTSIDE OF PROJECT LIMITS AND NOT APPROVED BY ENGINEER.
- CONTRACTOR SHALL PROTECT ALL TREES THAT ARE NOT DESIGNATED TO BE REMOVED OR ARE OUTSIDE OF PROJECT LIMITS. CONTRACTOR SHALL NOT PARK OR TRAVEL WITH ANY VEHICLE UNDER THE DRIP LINE OF A TREE TO REMAIN.
- WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK, SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY LAYOUT AND CONTROL REQUIRED TO COMPLETE ALL WORK.
- WORK DONE CONTRARY TO THE INSTRUCTIONS OF THE OWNERS REPRESENTATIVE, WORK DONE BEYOND THE LINES SHOWN ON THE PLANS OR ANY EXTRA WORK DONE WITHOUT AUTHORITY WILL NOT BE PAID FOR.
- A SHRINKAGE FACTOR OF 15% WAS ESTIMATED FOR THIS PROJECT. THE CONTRACTOR SHALL MAKE CHANGES IN EARTHWORK AS NEEDED TO ADJUST FOR INACCURACIES INHERENT WITH ESTIMATING THE SHRINKAGE FACTOR. THESE CHANGES SHALL ONLY BE MADE AFTER CONSULTATION AND APPROVAL BY THE ENGINEER AND DIVISION.
- NO PONDING OF WATER WILL BE ACCEPTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY AREAS OF EXISTING OR PROPOSED GROUND THAT HAVE POTENTIAL TO POND WATER AND MAKE ANY ADJUSTMENTS NECESSARY TO ENSURE THAT WATER WILL POSITIVELY DRAIN. ADJUST GRADES AT PROJECT LIMITS TO ALLOW SMOOTH TRANSITION FROM PROPOSED GRADES TO EXISTING GRADES.
- CONTOURS AND SPOT ELEVATIONS SHOWN ARE TO FINISHED GRADE.
- THE CONTRACTOR SHALL KEEP ALL ROADS OPEN TO THROUGH TRAFFIC AT ALL TIMES.
- SOME 2' CONTOUR LINES MAY NOT BE SHOWN FOR CLARITY.
- A BURN PERMIT IS REQUIRED TO BURN WITHIN 1/4 MILE OF BUILDINGS.
- ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COORDINATED WITH THE GOVERNING AUTHORITY AND SHALL BE DONE IN ACCORDANCE WITH THEIR STANDARDS.
- NO TREES SHALL BE CLEARED BETWEEN THE DATES OF APRIL 15 TO SEPTEMBER 15 TO COMPLY WITH THE REQUIREMENTS OF THE INDIANA BAT HABITAT WITHOUT THE EXPRESS PERMISSION OF THE DIVISION.
- SUBMIT MANUFACTURER'S CERTIFICATION AND MATERIAL DATA FOR ALL MATERIALS DELIVERED TO THE PROJECT SITE AS REQUESTED BY THE OWNERS REPRESENTATIVE.
- THE FOLLOWING STANDARD ROAD PLANS OF THE IOWA DEPARTMENT OF TRANSPORTATION ARE INCLUDED BY REFERENCE:
MI-103 & MI-104 DETAILS FOR FIELD FENCE CONSTRUCTION
EC-201 EROSION CONTROL DETAILS FOR SILT FENCE
- ALL FENCING SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AS SHOWN ON THE DRAWINGS AND APPROVED BY DIVISION OR ENGINEER PRIOR TO STARTING CONSTRUCTION OF THE FENCE. FENCE LOCATION SHALL BE ADJUSTED AS REQUIRED BY FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER. WOOD POSTS MAY BE SET BY EITHER EXCAVATION OR DIRECT DRIVING METHODS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEPARTMENT OF NATURAL RESOURCES (DNR) NPDES PERMIT AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS AND REQUIRED CONTAINMENT STRUCTURES. THE DIVISION HAS OBTAINED THE DNR GENERAL PERMIT #2 FOR THE PROJECT AND A TEMPLATE SWPPP HAS BEEN PREPARED BY THE ENGINEER. CONTRACTOR SHALL DEVELOP, IMPLEMENT, MAINTAIN, AND UPDATE THE SWPPP AS REQUIRED TO MEET ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS. REFER TO THE SWPPP AND SWPPP DRAWINGS FOR ADDITIONAL INFORMATION.
- THE DIVISION HAS OBTAINED A SECTION 404 PERMIT FROM THE U.S. ARMY CORPS OF ENGINEERS. CONTRACTOR IS REQUIRED TO FOLLOW AND MEET ALL PERMIT REQUIREMENTS. DO NOT DISTURB ANY DELINEATED WETLANDS THAT ARE NOT SHOWN TO BE DISTURBED AND MITIGATED.
- PORTIONS OF THE PROJECT DESIGN UTILIZED NATURAL REGRADE TECHNIQUES TO DESIGN THE STREAM CHANNELS, LETDOWN CHANNELS, AND OVERALL SITE GRADING. CONTRACTORS WILL BE REQUIRED TO COMPLETE THE DETAILED GRADING SHOWN ON THE PLANS WITHIN THE SPECIFIED GRADING TOLERANCES. CONTRACTORS WILL BE REQUIRED TO COMPLETE SURVEY LAYOUT OF FINAL GRADES OR USE STAKE-LESS GRADING TECHNIQUES TO MEET PROPOSED GRADES AND PROJECT TOLERANCES.

BID QUANTITIES:

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITIES
1	MOBILIZATION	LS	1
2	SITE CLEARING AND PREPARATION	ACRE	42.8
3	OFF SITE WASTE DISPOSAL	TON	10
4	IMPOUNDMENT DISCHARGE	LS	1
5	SILT FENCES-INSTALLATION	LF	6,750
6	SILT FENCES-REMOVAL	LF	6,750
7	WATTLES-INSTALLATION	LF	200
8	WATTLES-REMOVAL	LF	200
9	GRANULAR SURFACING	TON	60
10	EXCAVATION	CY	172,250
11	CONTROLLED GENERAL FILL PLACEMENT	CY	5,500
12	GRANULAR TOE BERM DRAIN	TON	400
13	RIPRAP (CLASS D)	TON	810.0
14	FILTER FABRIC	SY	1,330
15	TERRACES	LF	4,150
16	RISER-TERRACE (12")	EA	9
17	TILING (10")	LF	1,110
18	TILING (12")	LF	250
19	RISER-(48") (SECTION 02310)	EA	1
20	PIPE-(18" RCP)	LF	225
21	AGRICULTURAL LIME, SUBGRADE (50 TONS ECCE/ACRE)	TON	2140.0
22	MULCH, SUBGRADE (5 TONS/ACRE)	ACRE	42.8
23	AGRICULTURAL LIME, SEEDING (10 TONS ECCE/ACRE)	TON	418.0
24	NITROGEN, N (100 LBS/ACRE)	LBS	4,180
25	POTASSIUM, K (100 LBS/ACRE)	LBS	4,180
26	PHOSPHORUS, P (100 LBS/ACRE)	LBS	4,180
27	INTERIM SEEDING	ACRE	41.8
28	MULCH, SEEDING (2 TONS/ACRE)	ACRE	41.8
29	FIELD FENCING	LF	1,550
30	DOUBLE GATE (2-12 FOOT PANELS)	EA	2

LEGEND:

- STA: 45+00 GRID STATION
- 13+00 RT GRID OFFSET
- x 740.0 EXISTING SPOT ELEVATION
- 740----- EXISTING CONTOUR
- 740——— PROPOSED CONTOUR
- +——— CONSTRUCTION LIMITS
- +——— PROPOSED TERRACE
- x—x— EXISTING FENCE
- >— DRAINAGE DITCH OR STREAM
-  PROPOSED RIP-RAP
-  EXISTING TREE LINE
-  EXISTING TREES
-  DELINEATED WETLANDS
-  POWER POLE
- +--- SHEET MATCH LINE
- T——— EXISTING TERRACE
- +--- EXISTING CROP EDGE

DESIGN BY: CRB

DRAWN BY: JMS

CHKD. BY: CRB

ISSUED: 10-18-2013

REVISED:

S-H PROJECT NUMBER: 412321-0

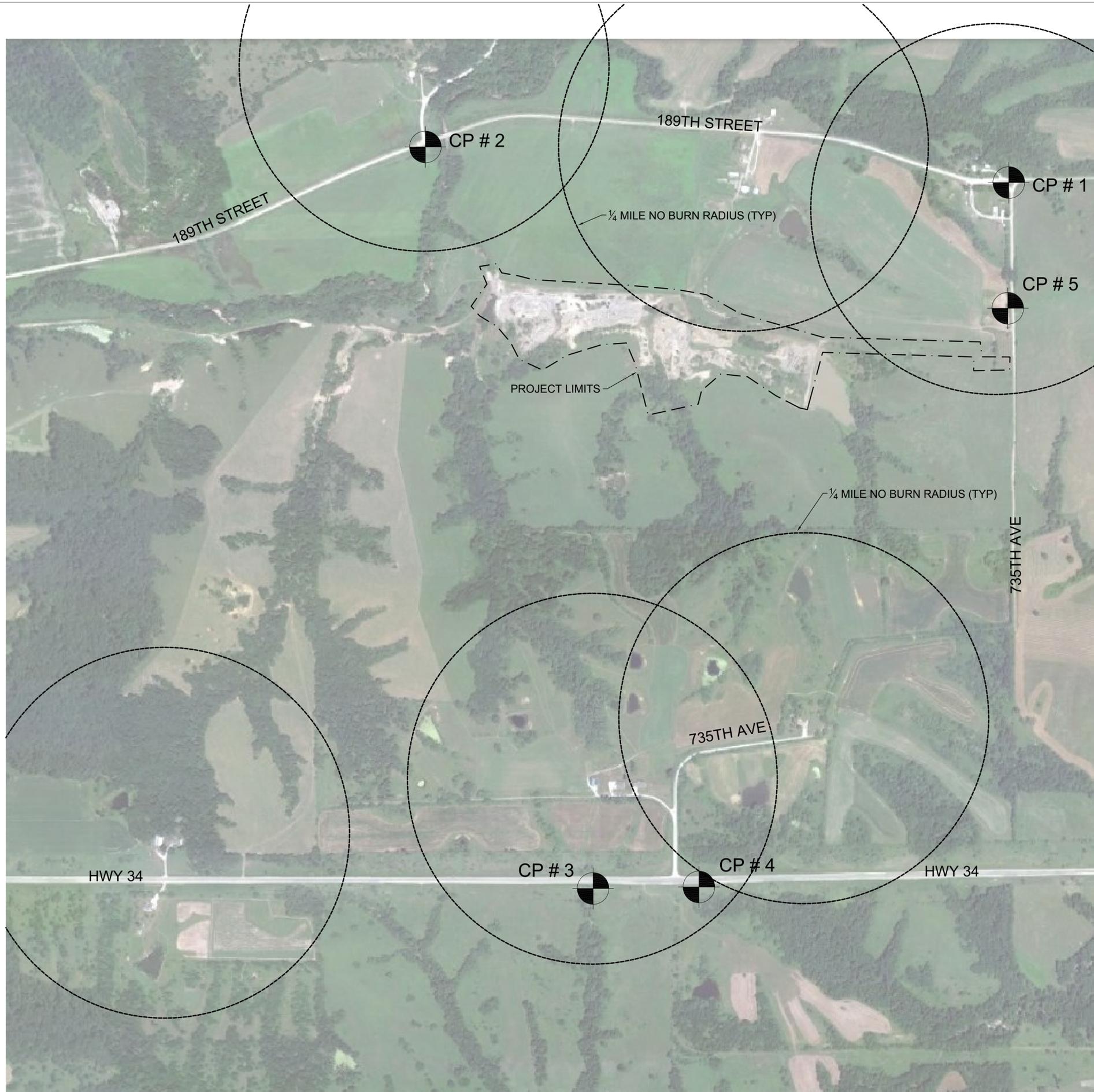
JUDGE
AML RECLAMATION PROJECT

PROJECT NOTES, QUANTITIES AND LEGEND

DIVISION OF SOIL CONSERVATION
IOWA DEPARTMENT OF AGRICULTURE
AND LAND STEWARDSHIP
HENRY A. WALLACE BUILDING
502 E. 9th STREET, DES MOINES, IOWA 50319
(515) 281-4246



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Iowa | Illinois | Missouri



CP # 1
 SET-IRON ROD W/ ORANGE CAP IN GRASS MEDIAN
 INTERSECTION OF 735TH AVE. & 189TH ST
 N: 376523.223
 E: 1875175.920
 EL: 833.443

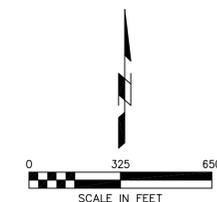
CP # 2
 FND-BRASS CAP AT SW CORNER OF BRIDGE-TOP
 OF WALL
 SE OF INTERSECTION OF 730TH AVE. & 189TH ST
 N: 376855.521
 E: 1870794.089
 EL: 738.813

CP # 3
 FND-IDOT CONC. MONUMENT W/ 1/2" IRON ROD
 (S) SIDE HWY 34- 1300' +/- (W) OF INTERSECTION HWY
 34 & 735TH AVE
 N: 371157.991
 E: 1871348.838
 EL: 866.271

CP # 4
 FND-IDOT CONC. MONUMENT W/ 1/2" IRON ROD
 (SE) OF INTERSECTION OF HWY 34 & 735TH AVE
 N: 371118.491
 E: 1872771.214
 EL: 874.547

CP # 5
 SET-IRON ROD W/ ORANGE CAP
 3' (E) OF CEMETERY FENCE, 98' (S) OF (S) CEMETERY
 CONC. GATE POST
 N: 375244.584
 E: 1875189.78
 EL: 879.701

SURVEY DATUM
 HORIZONTAL - NAD83, IOWA STATE PLANES, SOUTH ZONE,
 US FOOT
 VETICAL - NAVD88



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CHKD. BY: CRB ISSUED: 10-18-2013 REVISED:

DESIGN BY: CRB DRAWN BY: JMS

DIVISION OF SOIL CONSERVATION
 IOWA DEPARTMENT OF AGRICULTURE
 AND LAND STEWARDSHIP
 HENRY A. WALLACE BUILDING
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JUDGE
 AML RECLAMATION PROJECT
 SURVEY CONTROL POINTS

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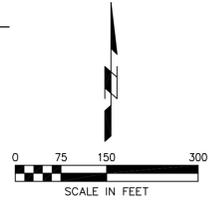
DELINEATED WETLANDS:
 JURISDICTIONAL WETLAND DELINEATION WAS COMPLETED BY TERRACON CONSULTANTS, INC. ON DECEMBER 12, 2012. TERRACON PROJECT NO. 08127118.

- NOTES:**
- REFER TO SOILS REPORT BOUND IN SPECIFICATIONS FOR SOIL BORING INFORMATION.
 - ENTIRE SITE IS OWNED BY ONE PROPERTY OWNER: JOHN AND PATTY JUDGE

LEGEND:

x 740.0	EXISTING SPOT ELEVATION	15+00	GRID STATION
---	CONSTRUCTION LIMITS	5+00 LT	GRID OFFSET
- - - 740	EXISTING CONTOUR	⊗	POWER POLE
- x - x -	EXISTING FENCE	⊕	SHEET MATCH LINE
->->->	DRAINAGE DITCH OR STREAM	⊖	FENCE-BY CONTRACTOR
~ ~ ~	EXISTING TREE LINE	○	FENCE-BY OWNER
⊗	EXISTING TREES		
⊗	DELINEATED WETLANDS		

- SURVEY NOTES:**
- LIMITED TOPOGRAPHIC SURVEY COMPLETED BY SHIVE-HATTERY ON 2-3-2012.
 - EXISTING SURFACE INFORMATION SHOWN WAS BASED ON LIGHT DETECTION AND RANGING (LIDAR) INFORMATION FROM IOWA DNR.
 - CONTRACTOR SHALL VERIFY CONTROL AND EXISTING SURFACE PRIOR TO CONSTRUCTION.



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<p>JUDGE AML RECLAMATION PROJECT</p>					
<p>SITUATION PLAN - SURVEY BASE LINE</p>					
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<p>DIVISION OF SOIL CONSERVATION IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP HENRY A. WALLACE BUILDING 502 E. 9th STREET, DES MOINES, IOWA 50319 (515) 281-4246</p>					
<p>SHEET 4 OF 20</p>					