

NOAH AND WILCOX EAST AML RECLAMATION PROJECT

BID NO. IA-113-363

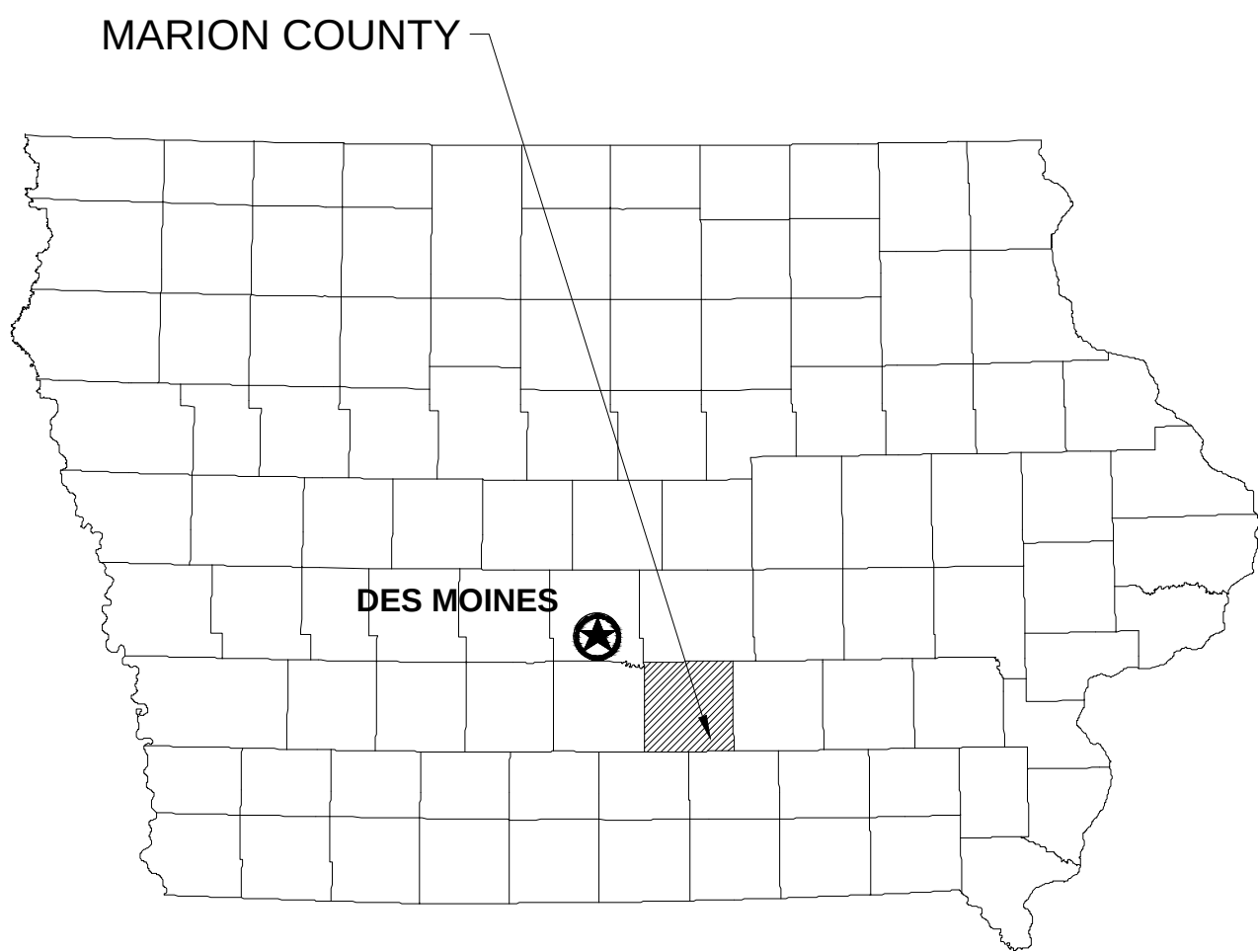
SECTIONS 4, 5, 8, AND 9 TOWNSHIP 74 NORTH, RANGE 18 WEST, MARION COUNTY

IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

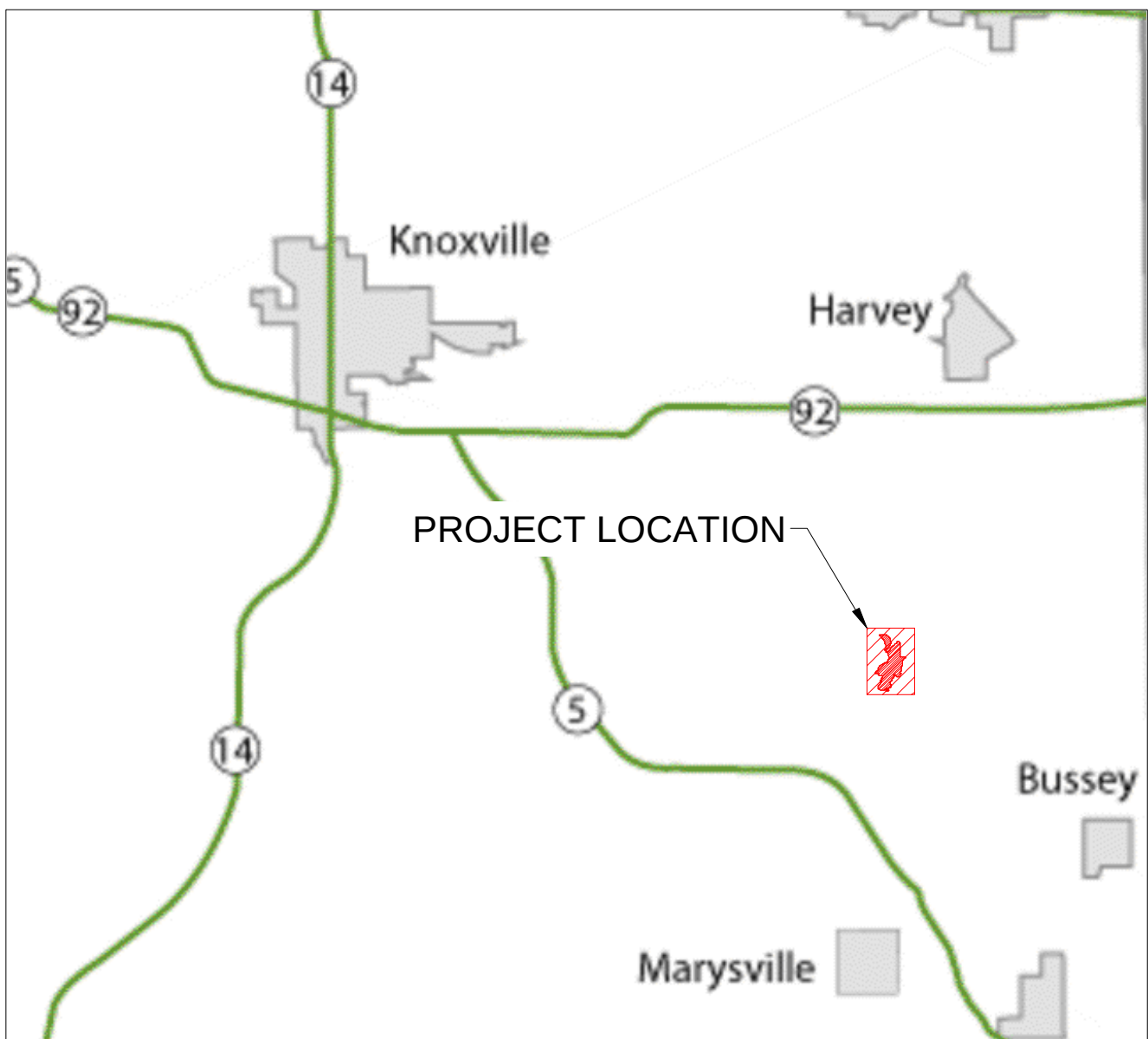
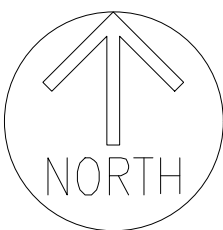
DIVISION OF SOIL CONSERVATION AND WATER QUALITY

GRANT NUMBER: S25AF00167

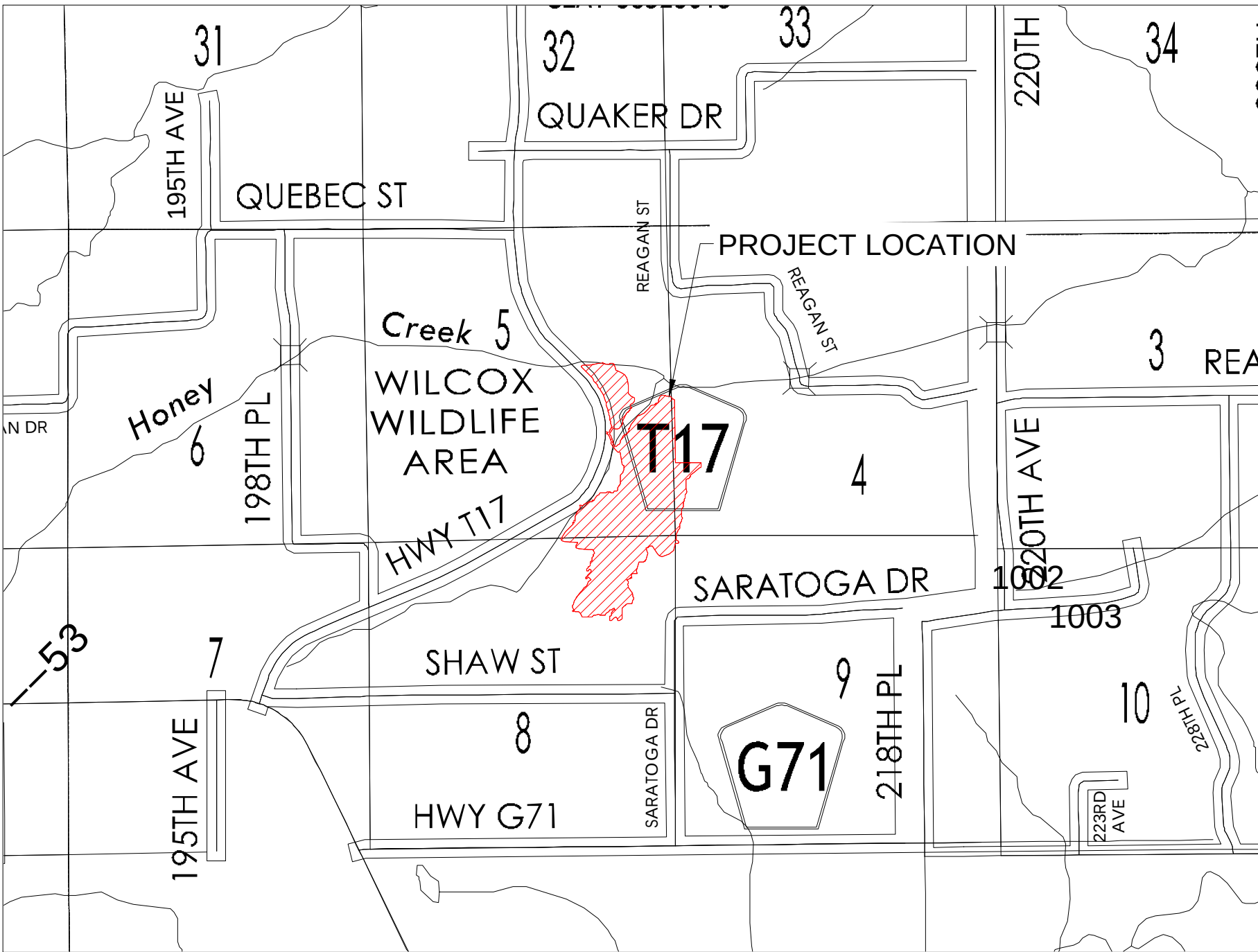
FUNDED BY:
U.S. DEPARTMENT OF THE INTERIOR
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT



STATE OF IOWA



MARION COUNTY



GENERAL NOTES:

1. 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.
2. CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY LAYOUT AND CONTROL REQUIRED TO COMPLETE ALL WORK.
3. 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.
4. CONTOURS AND SPOT ELEVATIONS SHOWN ARE TO FINISHED GRADE.
5. THE CONTRACTOR SHALL KEEP ALL ROADS OPEN TO THROUGH TRAFFIC AT ALL TIMES.
6. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT BOUNDARY WITHOUT PRIOR AUTHORIZATION FROM THE DIVISION.
7. SOME CONTOUR LINES MAY NOT BE SHOWN FOR CLARITY.
8. BURNING OF LANDSCAPE WASTE PRODUCED IN CLEARING, GRUBBING AND CONSTRUCTION OPERATIONS SHALL BE LIMITED TO LOCATIONS LOCATED AT LEAST 1/4 MILE FROM ANY BUILDING INHABITED BY ANYONE OTHER THAN THE LANDOWNER OR TENANT CONDUCTING THE OPEN BURNING. PERMISSION IS REQUIRED TO BURN WITHIN 1/4 MILE OF INHABITED RESIDENCES. CONTRACTOR TO INSTALL TEMPORARY SIGNAGE WHEN BURNING OPERATIONS COULD AFFECT VISIBILITY ON ADJACENT ROADS - COORDINATE WITH LOCAL GOVERNING OFFICIALS.
9. SUBMIT MANUFACTURER'S CERTIFICATION AND MATERIAL DATA FOR ALL MATERIALS DELIVERED TO THE PROJECT SITE AS REQUESTED BY THE OWNERS REPRESENTATIVE.
10. 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
11. 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. THE DIVISION WILL PERFORM SWPPP INSPECTIONS, 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.
12. THE DIVISION HAS RECEIVED A DETERMINATION FROM THE U.S. ARMY CORPS THAT A SECTION 404 NATIONWIDE PERMIT IS REQUIRED AND HAS BEEN OBTAINED BY THE DIVISION. DO NOT DISTURB ANY DELINEATED WETLANDS THAT ARE NOT SHOWN TO BE DISTURBED AND MITIGATED.
13. REFERENCE TO PARTICULAR PRODUCTS, TRADENAMES, OR MANUFACTURERS IS INTENDED FOR CLARITY ONLY AND DOES NOT REPRESENT ENDORSEMENT BY THE STATE OF IOWA. EQUIVALENT PRODUCTS OR MATERIALS MAY BE SUITABLE, SUBJECT TO APPROVAL OF THE ENGINEER OR DIVISION.
14. NEITHER SHIVE-HATTERY NOR THE DIVISION GUARANTEE THE WETLANDS TO FILL OR MAINTAIN A CONSISTENT POOL OF WATER.
15. REFERENCES TO "DIVISION" SHALL MEAN "DIVISION OF SOIL CONSERVATION & WATER QUALITY"
16. ALL IMPROVEMENTS SHOWN ON THESE PLANS SHALL COMPLY WITH THE GENERAL CONDITIONS, STANDARDS, AND SPECIFICATIONS SET FORTH IN PROJECT DOCUMENTS. SPECIFICATIONS OR STANDARDS INCORPORATED BY REFERENCE SHALL ALSO BE FOLLOWED.
17. OWNERSHIP: THIS DOCUMENT, AND THE IDEAS AND DESIGN CONTAINED IN THIS DOCUMENT, ARE AN INSTRUMENT OF PROFESSIONAL SERVICE, AND MAY NOT BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE DIVISION.
18. REFERENCES TO PARTICULAR PRODUCTS, TRADENAMES, OR MANUFACTURERS ARE INTENDED FOR CLARITY ONLY AND DO NOT REPRESENT EXCLUSION OR ENDORSEMENT BY THE DIVISION OR THE STATE OF IOWA. EQUIVALENT PRODUCTS OR MATERIALS MAY BE SUITABLE, SUBJECT TO THE APPROVAL OF THE ENGINEER.
19. CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE ENGINEER AND/OR DIVISION PRIOR TO COMMENCING CONSTRUCTION.

UTILITY NOTES:

1. THE LOCATIONS OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS SHOWN IN THESE PLANS 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).
2. 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 CONTRACTOR IS RESPONSIBLE OF CONTACTING IOWA ONE-CALL.
3. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL OPEN UTILITY TRENCH EXCAVATIONS SHALL BE PROTECTED.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND/OR PRIVATE UTILITIES AND PUBLIC ROADWAYS, INCLUDING ANY NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY CONFLICTS WITH THE DRAWINGS OCCUR. ANY DAMAGE TO EXISTING UTILITIES AND/OR PUBLIC ROADWAYS CAUSED BY CONTRACTOR TRENCHING SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PROJECT CONSTRUCTION NOTES:

1. REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED BY CONSTRUCTION. MONUMENTS SHALL REPLACED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE IOWA CODE AND SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF IOWA. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND COMPLETED AT NO ADDITIONAL COST TO THE DIVISION.
2. 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.
3. ALL DEBRIS AND TRASH ENCOUNTERED DURING CONSTRUCTION WITHIN THE PROJECT BOUNDARY, OR DIRECTED BY THE ENGINEER, SHALL BE PROPERLY DISPOSED OF ACCORDING TO THE PROJECT REQUIREMENTS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION DE-WATERING THAT IS REQUIRED, EXCLUDING IMPOUNDMENT DISCHARGE, AT NO ADDITIONAL COST TO THE DIVISION.
5. REPAIR OR REPLACE DAMAGE TO EXISTING FACILITIES (TILE, UTILITIES, FENCES, ETC.) DESIGNATED TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE DIVISION. 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 BOUNDARY AND NOT APPROVED BY ENGINEER.
6. CONTRACTOR SHALL PROTECT ALL TREES THAT ARE NOT DESIGNATED TO BE REMOVED OR ARE OUTSIDE OF PROJECT BOUNDARY. CONTRACTOR SHALL NOT PARK OR TRAVEL WITH ANY VEHICLE UNDER THE DRIP LINE OF A TREE TO REMAIN.
7. A SHRINKAGE FACTOR OF 12% 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 ADDITIONAL COMPENSATION SHALL BE GIVEN FOR ANY GRADE ADJUSTMENTS DUE TO DEVIATIONS OF SHRINKAGE FACTOR.
8. 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 BOUNDARY TO ALLOW SMOOTH TRANSITION FROM PROPOSED GRADES TO EXISTING GRADES.
9. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COORDINATED WITH THE GOVERNING AUTHORITY AND SHALL BE DONE IN ACCORDANCE WITH THEIR STANDARDS.
10. NO TREES SHALL BE CLEARED BETWEEN THE DATES OF APRIL 1 TO SEPTEMBER 30.
11. 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 DESCRIPTION	SPEC. SECTION	NOAH QUANTITY	WILCOX EAST QUANTITY	TOTAL QUANTITY	UNITS
1	MOBILIZATION	02100	0.5	0.5	1	LS
2	SITE CLEARING AND PREPARATION	02100	28.8	77.7	106.5	ACRE
3	OFF SITE WASTE DISPOSAL	02100	50	50	100	TON
4	BRUSH PILES	02100	7	0	7	EA
5	APPROVED SEDIMENT CONTROL MEASURES	02120	1,660	6,458	8,118	LF
6	SILT FENCE	02120	0	3,340	3,340	LF
7	FILTER SOCK	02120	220	460	680	LF
8	RECP - TYPE 3B	02120	0	1,818	1,818	SY
9	FLEXAMAT TIED CONCRETE BLOCK MAT	02120	873	0	873	SY
10	STABILIZED CONSTRUCTION ENTRANCE - GRANULAR SURFACING	02120	0	300	300	TON
11	EXCAVATION	02200	341,247	1,006,364	1,347,611	CY
12	CLASS 'E' RIPRAP	02300	1,166	1,372	2,538	TON
13	STONE FILTER (3" MACADAM STONE)	02300	158	332	490	TON
14	TERRACES (4' TALL)	02300	0	12,136	12,136	LF
15	TERRACES (5' TALL)	02300	4,598	0	4,598	LF
16	CMP RISER-TERRACE (10", 3' TALL)	02300	0	18	18	EA
17	CMP RISER-TERRACE (12", 3' TALL)	02300	0	3	3	EA
18	CMP RISER-TERRACE (10", 4' TALL)	02300	5	0	5	EA
19	CMP RISER-TERRACE (12", 4' TALL)	02300	4	0	4	EA
20	HDPE PIPE (8")	02300	0	754	754	LF
21	PIPE OUTLET (8")	02300	0	12	12	EA
22	STRUCTURE - MODIFIED CONCRETE RISER (48" X 48")	02310	1	0	1	EA
23	STRUCTURE - CONCRETE RISER (48")	02310	1	2	3	EA
24	PPHP PIPE (12")	02310	1,432	1,951	3,383	LF
25	PPHP PIPE (36")	02310	0	224	224	LF
26	C900 PVC PIPE (24")	02310	323	0	323	LF
27	CONCRETE GRAVITY THRUST BLOCK	02310	1	1	2	EA
28	WETLAND UNDERCUT AND REPLACEMENT	02400	2.4	2.6	5.0	ACRE
29	DEEP RIPPING, SUBGRADE	02400	1.3	0.7	2.0	ACRE
30	AGRICULTURAL LIME, SUBGRADE (40 TONS ECCE/ACRE)	02400	1,152	3,096	4,248	TON
31	MULCH, SUBGRADE (5 TONS/ACRE)	02400	28.8	77.4	106.2	ACRE
32	NITROGEN, N, WETLAND FERTILIZER (30 LBS/ACRE)	02400	72	78	150	LBS
33	FIELD FENCE	02500	1,956	2,778	4,734	LF
34	FIELD GATE	02500	0	2	2	LS
35	AGRICULTURAL LIME, SEEDING (10 TONS ECCE/ACRE)	02700	277	757	1,034	TON
36	NITROGEN, N, SEEDING (50 LBS/ACRE)	02700	145	145	290	LBS
37	PHOSPHORUS, P, SEEDING (100 LBS/ACRE)	02700	290	290	580	LBS
38	POTASSIUM, K, SEEDING (160 LBS/ACRE)	02700	464	464	928	LBS
39	PERMANENT SEEDING, NATIVE MIX	02700	24.8	72.8	97.6	ACRE
40	PERMANENT SEEDING, WETLAND MIX	02700	2.9	2.9	5.8	ACRE
41	MULCH, SEEDING (2 TONS/ACRE)	02700	27.7	75.7	103.4	ACRE

LEGEND:

STA:45+00

711.89

737

737

740

740

GRID STATION

EXISTING SPOT ELEVATION

EXISTING CONTOUR MINOR

EXISTING CONTOUR MAJOR

PROPOSED CONTOUR MINOR

PROPOSED CONTOUR MAJOR

PROJECT BOUNDARY

PROPOSED RIDGELINE

PROPOSED 4' TALL TERRACE RIDGELINE

PROPOSED 5' TALL TERRACE RIDGELINE

EXISTING DRAINAGE DITCH OR STREAM

NO BURN RADIUS

PROPOSED FENCE

PROPOSED ROAD CENTERLINE

PROPOSED RIP-RAP/ROCK

PROPOSED TIED CONCRETE MAT

PROPOSED STORM PIPE

PROPOSED STREAM

INTAKE

POWER POLE

SHEET MATCH LINE

PROPERTY LINE (APPROX)

CONTROL POINT

SEDIMENT CONTROL MEASURE

SILT FENCE

BRUSH PILE

PROPOSED RECP

PROPOSED DEEP RIPPING

EXISTING WETLAND

EXISTING POND

PROPOSED POND/WETLAND

GLOSSARY OF COMMON ABBREVIATIONS:

1. PG = PROPOSED GRADE
2. EG = EXISTING GRADE
3. FG = FORM GRADE ELEVATION; THE LOWEST INLET OPENING ELEVATION FOR A RISER OR STRUCTURE TO RECEIVE WATER FROM A POND OR CHANNEL
4. IE = INVERT ELEVATION
5. HDPE = DUAL-WALL CORRUGATED HIGH DENSITY POLYETHYLENE CONDUIT (I.E. ADS N12 OR APPROVED EQUIVALENT)
6. PPHP = POLYPROPYLENE HIGH PERFORMANCE CORRUGATED DUAL-WALL PIPE (I.E. ADS HP STORM OR APPROVED EQUIVALENT)
7. CR = CONCRETE RISER
8. MR = METAL RISER
9. PR = PLASTIC RISER
10. RIM = ELEVATION OF A STRUCTURE LID
11. LF = LINEAL FEET
12. FL = FLOWLINE
13. HP = HIGH POINT ELEVATION, TYPICALLY IN A TERRACE FLOWLINE
14. CL = CENTERLINE
15. PC = POINT OF CURVATURE, TRANSITION FROM A STRAIGHT LINE TO A CURVE
16. PT = POINT OF TANGENCY, TRANSITION FROM A CURVE TO A STRAIGHT LINE
17. PI = POINT OF INTERSECTION OR BEND POINT ON A LINE
18. EX. = "EXISTING" I.E. "EXISTING CMP CULVERT"

NOTE: THE LEGEND OF SYMBOLS, LINETYPES, AND LIST OF ABBREVIATIONS SHOWN ABOVE ARE GENERIC. NOT ALL SYMBOLS, LINETYPES, OR ABBREVIATIONS LISTED APPEAR ON THE ACCOMPANYING DRAWINGS FOR THIS PROJECT. SYMBOLS, LINETYPES, OR ABBREVIATIONS NOT LISTED HERE ARE SPECIFICALLY CALLED OUT WHERE NECESSARY.

S-H PROJECT NUMBER: 2142305281

SHIVE-HATTERY
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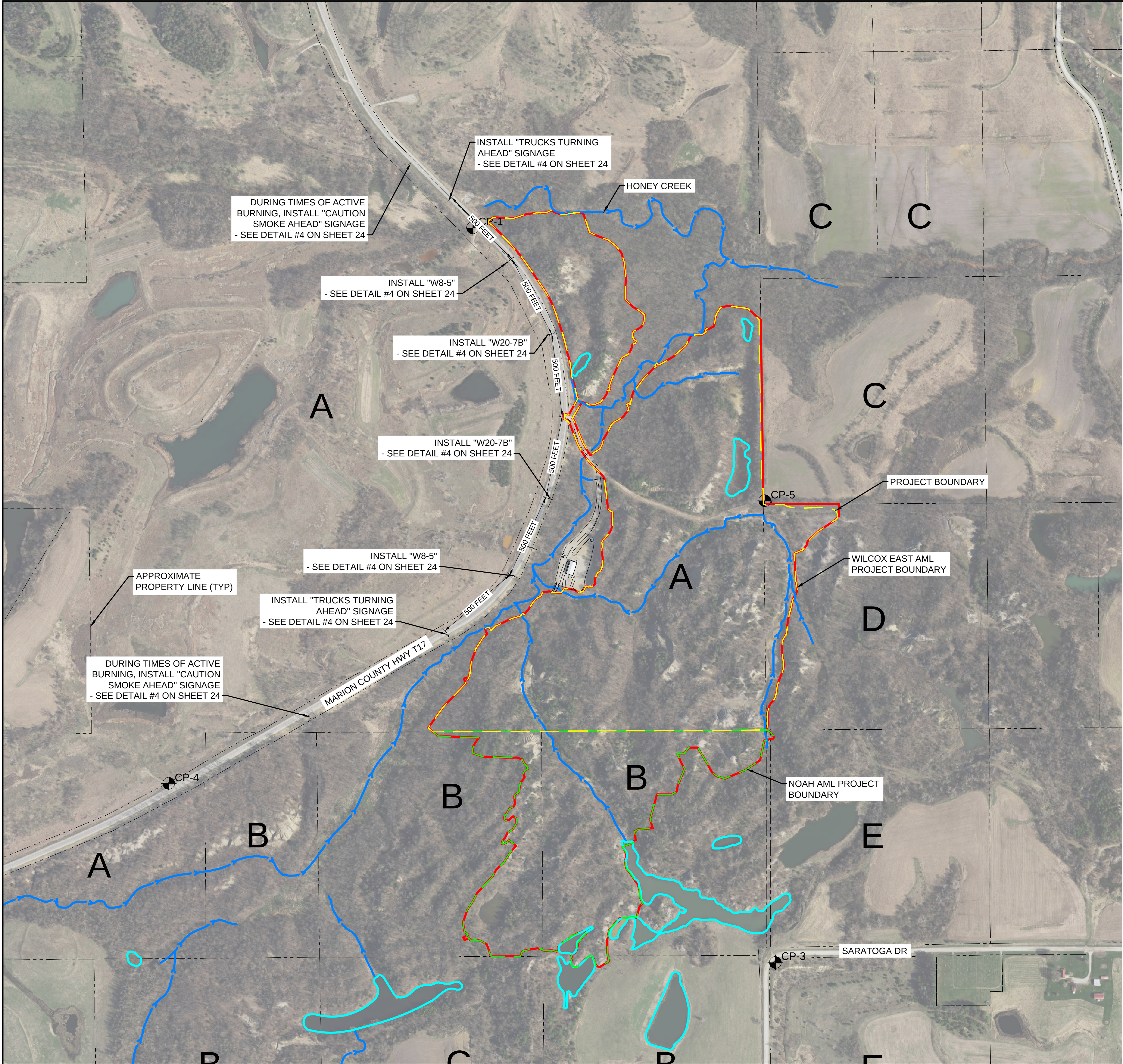
IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
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HOOVER STATE OFFICE BUILDING
1305 E. WALNUT STREET DES MOINES, IA 50319
(515) 281-5321



NOAH AND WILCOX EAST
AML RECLAMATION PROJECT
PROJECT NOTES
QUANTITIES & LEGEND

SHEET

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LANDOWNER TABLE

- A. MARION COUNTY
- B. GULICK, RACHEL
- C. STEELE, LEONA
- D. LENGER, JACK
- E. NICHOLSON, TOBY

NOTES:

- BURNING OF LANDSCAPE WASTE PRODUCED IN CLEARING, GRUBBING AND CONSTRUCTION OPERATIONS SHALL BE LIMITED TO LOCATIONS LOCATED AT LEAST 1/4 MILE FROM ANY INHABITED BUILDING EXCLUDING THOSE BUILDINGS INHABITED BY THE LAND OWNER OR TENANT CONDUCTING THE OPEN BURNING. PERMISSION IS REQUIRED TO BURN WITHIN 1/4 MILE OF INHABITED RESIDENCES. CONTRACTOR TO INSTALL TEMPORARY SIGNAGE WHEN BURNING OPERATIONS COULD AFFECT VISIBILITY ON ADJACENT ROADS - COORDINATE WITH LOCAL GOVERNING OFFICIALS.
- CONTRACTOR TO STAKE PROJECT BOUNDARY, DIVISION AND ENGINEER TO APPROVE BOUNDARY PRIOR TO COMMENCEMENT OF WORK.

SURVEY CONTROL

CP - 1

N 452797.4170'
E 1790775.7250'
ELEV. = 769.097'

SET 5/8" IRON ROD WITH RED CAP

CP - 2

N 454210.4480'
E 1792533.1440'
ELEV. = 777.920'

SET 5/8" IRON ROD WITH RED CAP

CP - 3

N 448500.2330'
E 1792548.0460'
ELEV. = 854.451'

SET 5/8" IRON ROD WITH RED CAP

CP - 4

N 449546.4530'
E 1788997.6210'
ELEV. = 853.477'

SET 5/8" IRON ROD WITH RED CAP

CP - 5

N 451199.9150'
E 1792486.0050'
ELEV. = 828.846'

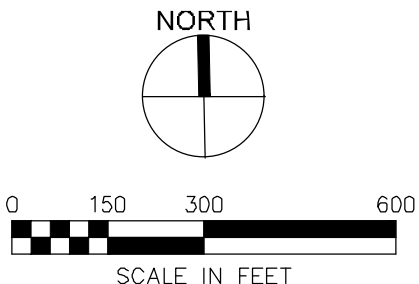
SET 5/8" IRON ROD WITH RED CAP

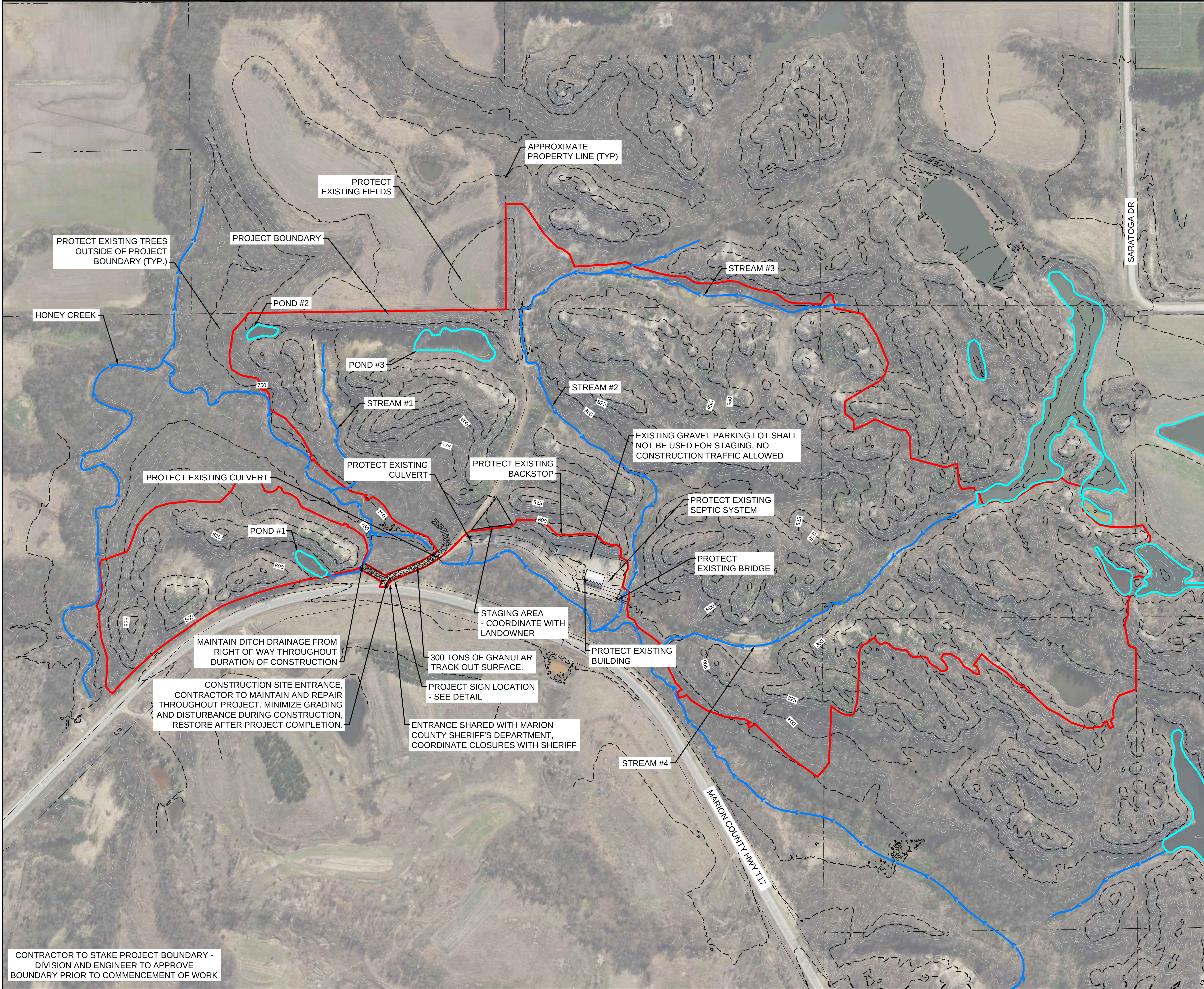
NOTE:
GROUND CONTROL AND REFERENCE
TIES BY SHIVE-HATTERY, INC.

SCALE: 1" = 50'

SURVEY DATUM:
HORIZONTAL - NAD83, IOWA STATE
PLANES, SOUTH ZONE, US FOOT.

VERTICAL - NAVD88





CONTRACTOR TO STAKE PROJECT BOUNDARY - DIVISION AND ENGINEER TO APPROVE BOUNDARY PRIOR TO COMMENCEMENT OF WORK

STAGING NOTES:

1. CONTRACTOR STAGING AND LAYDOWN AREAS TO BE DETERMINED BY CONTRACTOR AND LOCATED WITHIN THE PROJECT BOUNDARY. THE ESTABLISHMENT OF STAGING AND LAYDOWN AREAS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

DEMOLITION NOTES:

1. ALL DEBRIS AND TRASH ENCOUNTERED DURING CONSTRUCTION WITHIN THE PROJECT BOUNDARY OR DIRECTED BY THE ENGINEER, SHALL BE PROPERLY DISPOSED OF ACCORDING TO THE PROJECT SPECIFICATIONS.

SURVEY NOTES:

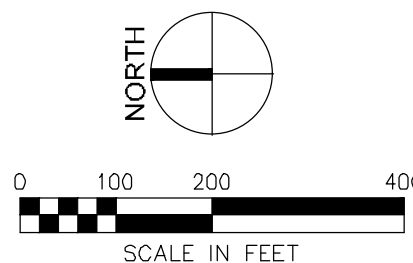
1. LIMITED TOPOGRAPHIC SURVEY COMPLETED BY SHIVE- HATTERY ON 04-24-2024.
2. THIS DRAWING IS SET TO THE NAD 1983 IOWA STATE PLANE, SOUTH ZONE COORDINATE SYSTEM. ELEVATION INFORMATION IS BASED UPON THE NAVD 1988.
3. DURABLE CONTROL POINTS WERE ESTABLISHED FOR THIS PROJECT. CONTRACTOR SHALL FIELD VERIFY THEIR LOCATIONS AND ELEVATIONS. IF ANY ADDITIONAL CONTROL POINTS ARE REQUIRED, SUCH WORK BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR SHALL VERIFY SURVEY CONTROL AND EXISTING SURFACE PRIOR TO CONSTRUCTION. IF SIGNIFICANT DIFFERENCES EXIST BETWEEN THE LIDAR ELEVATIONS SHOWN AND THOSE REPORTED BY SURVEYING EQUIPMENT, THE CONTRACTOR SHALL CALIBRATE THE SURVEYING INSTRUMENTS TO THE LIDAR INFORMATION IN CONSULTATION WITH THE DIVISION. REFER TO PROJECT SPECIFICATIONS.
5. EXISTING SURFACE INFORMATION SHOWN IS BASED ON LIGHT DETECTION AND RANGING (LIDAR) INFORMATION FROM THE IOWA DNR. LIDAR WAS COLLECTED IN THE SPRING OF 2020 AND PUBLISHED MARCH, 2022. LIDAR DATA IS PUBLICLY AVAILABLE FROM IOWA GEODATA, <https://geodata.iowa.gov/>
6. AERIAL IMAGE OBTAINED FROM COUNTY GIS.

POND NOTES:

1. ALL EXISTING PONDS SHOWN WERE SURVEYED ON JANUARY 23, 2023. AT THE TIME OF THE SURVEY, NO POND HAD ENOUGH WATER TO PERFORM EITHER A DEPTH TO REFUSAL PROBE OR A WATER SAMPLING SURVEY.

EXISTING STREAM

#	LENGTH (FEET)	FATE
1	673	FILLED
2	2037	FILLED
3	1007	FILLED
4	1611	FILLED



S-H PROJECT NUMBER: 2142305281

REVISED: ---

ISSUED: 08-17-2026

CHKD. BY: LTM

DRAWN BY: GHK

DESIGN BY: AJH

SHIVEHATTERY
ARCHITECTURE+ENGINEERING

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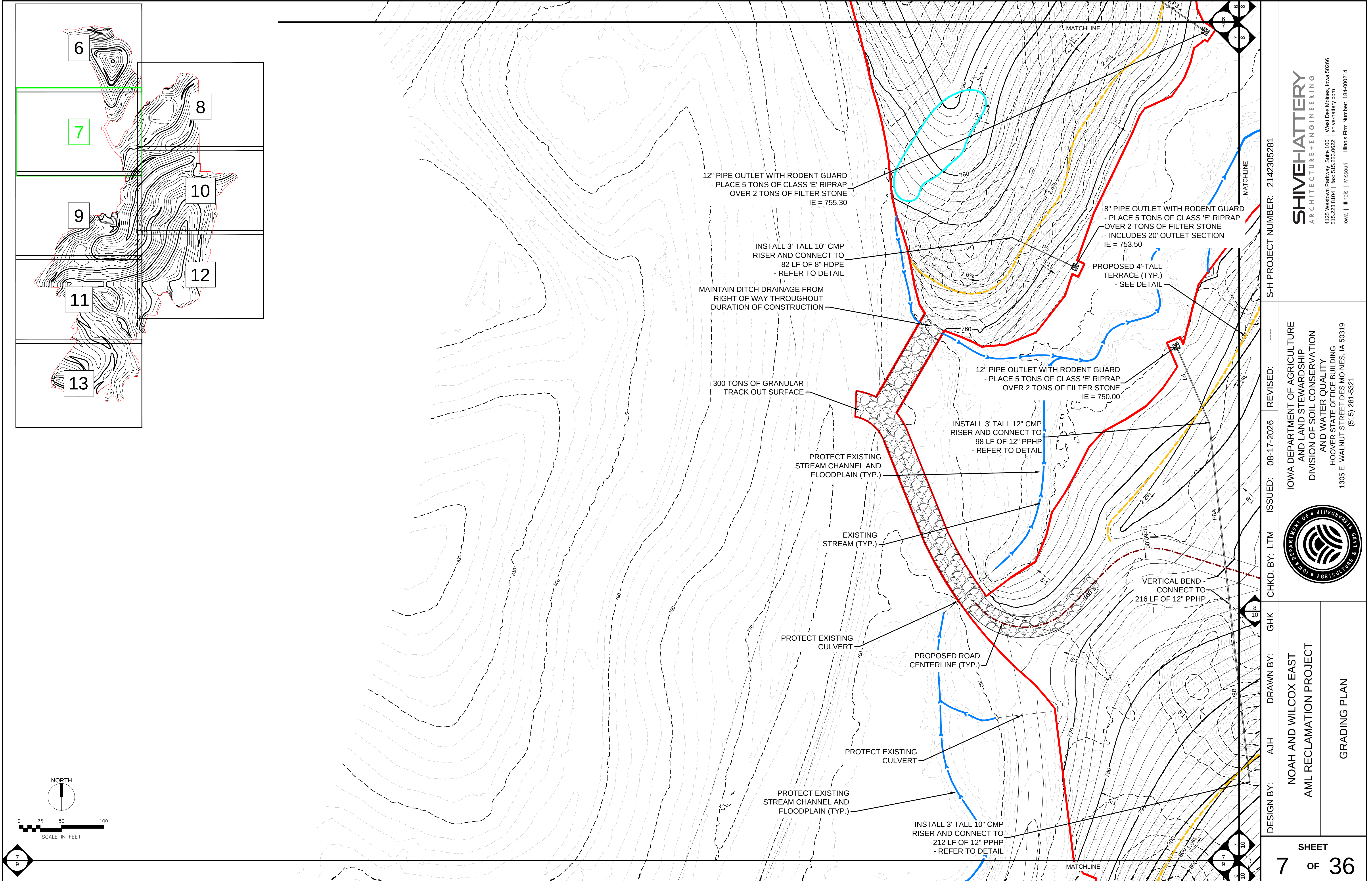


NOAH AND WILCOX EAST
AML RECLAMATION PROJECT

SITUATION PLAN -
EXISTING CONDITIONS

SHEET

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SHIVEHATTERY
ARCHITECTURE+ENGINEERING

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NOAH AND WILCOX EAST
AML RECLAMATION PROJECT

GRADING PLAN

S-H PROJECT NUMBER: 2142305281

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CHKD. BY: LTM

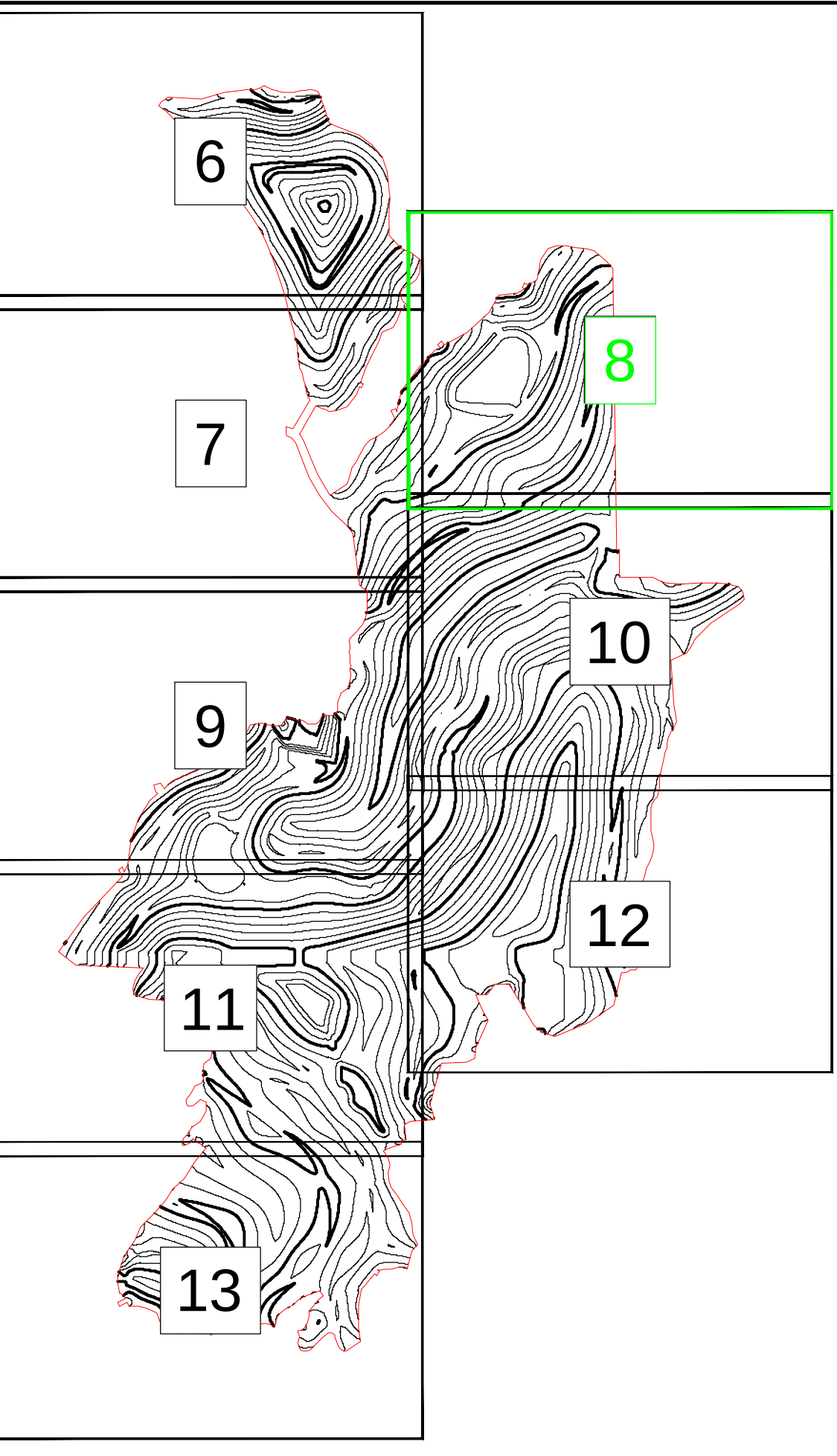
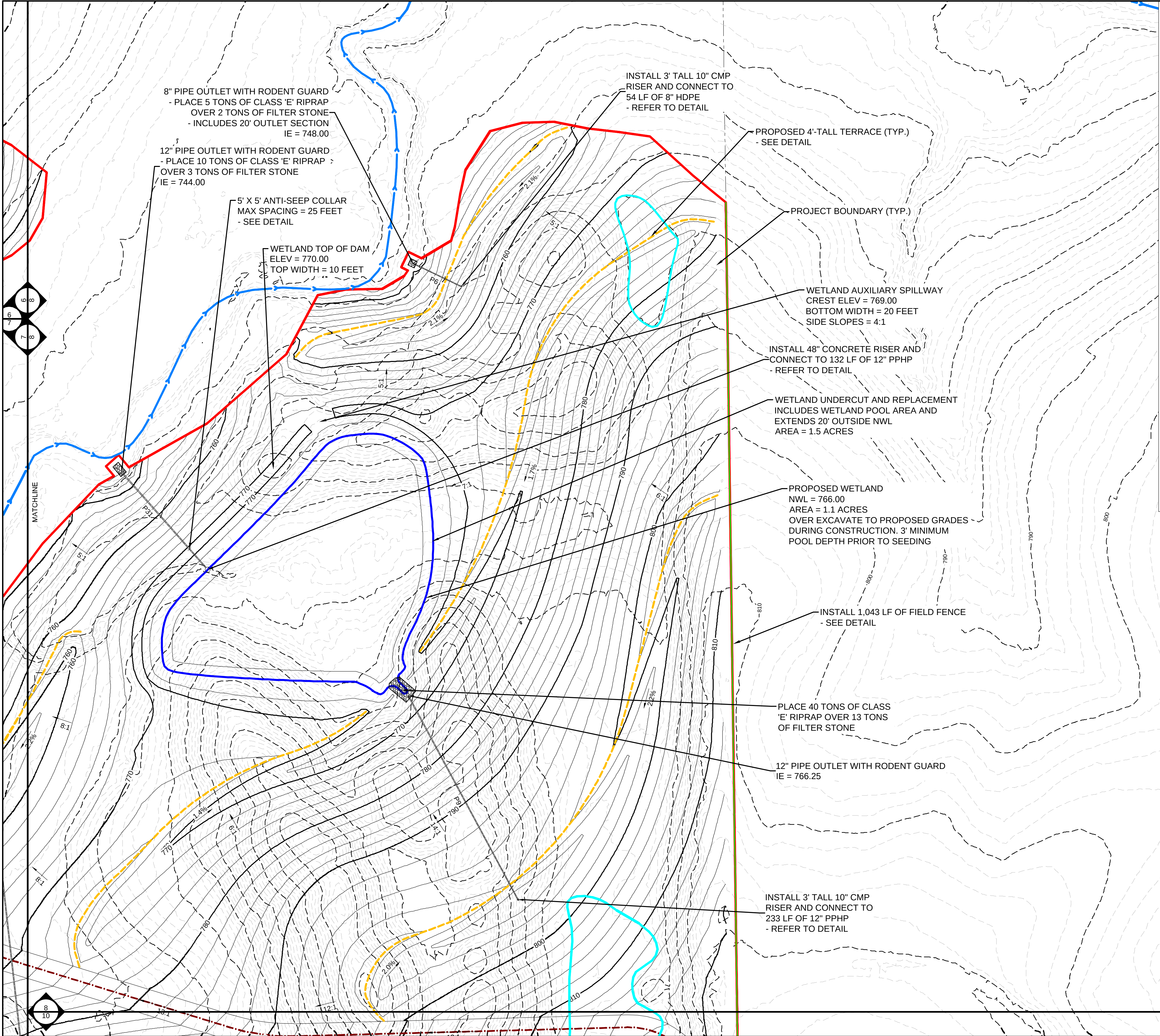
GHK

DRAWN BY: AJH

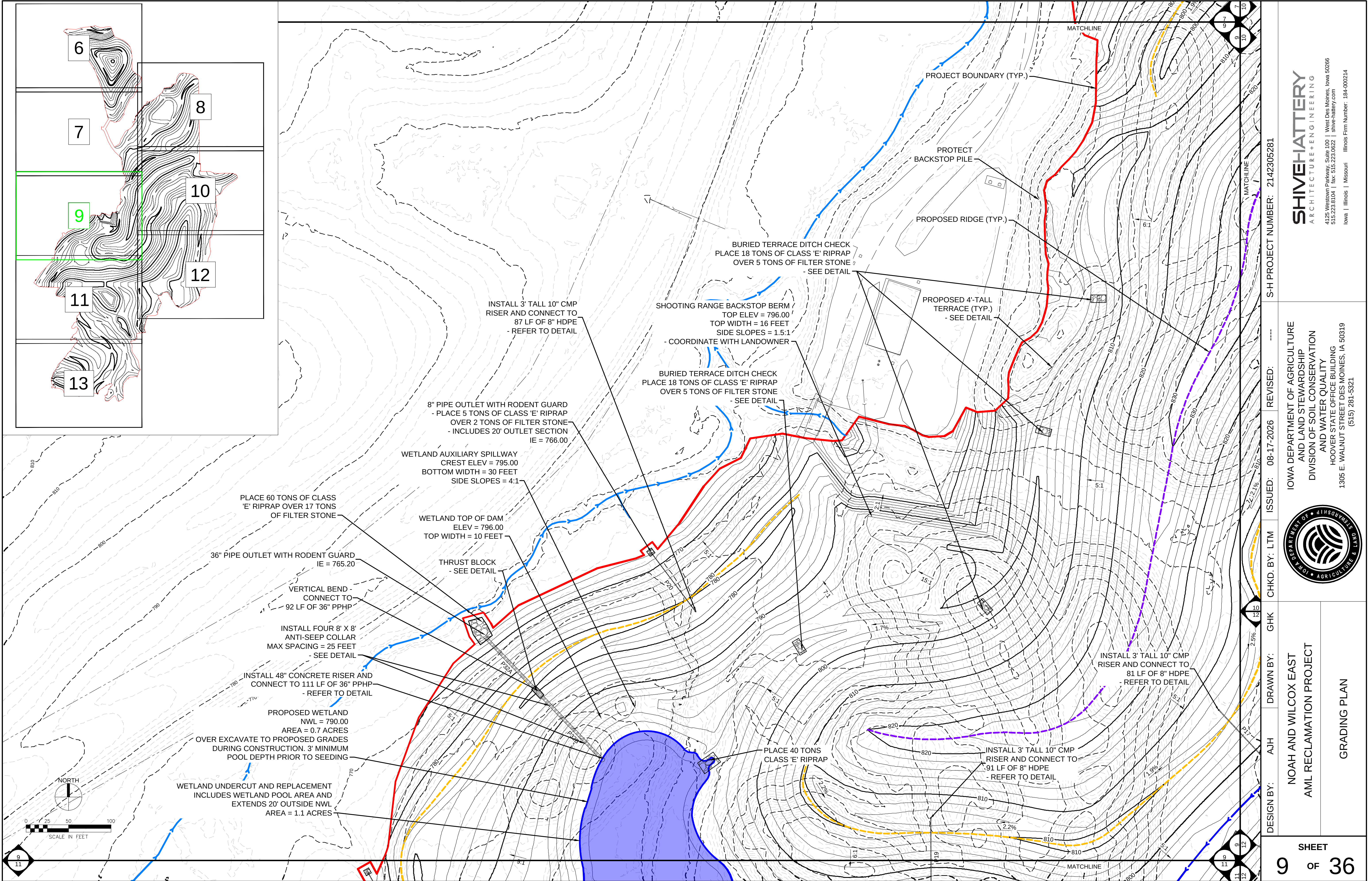
DESIGN BY: AJH

SHEET

7 OF 36



DESIGN BY: AJH	DRAWN BY: GHK	CHKD. BY: LTM	ISSUED: 08-17-2026	REVISED: ---	S-H PROJECT NUMBER: 2142305281
NOAH AND WILCOX EAST AML RECLAMATION PROJECT			IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP DIVISION OF SOIL CONSERVATION AND WATER QUALITY HOOVER STATE OFFICE BUILDING 1305 E. WALNUT STREET DES MOINES, IA 50319 (515) 281-5321		
GRADING PLAN			SHIVE-HATTERY ARCHITECTURE+ENGINEERING 4125 Westown Parkway, Suite 100 West Des Moines, Iowa 50266 515.223.8104 fax: 515.223.0622 shive-hattery.com Iowa Illinois Missouri Illinois Firm Number: 184-000214		
SHEET 8 OF 36					



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HOOVER STATE OFFICE BUILDING
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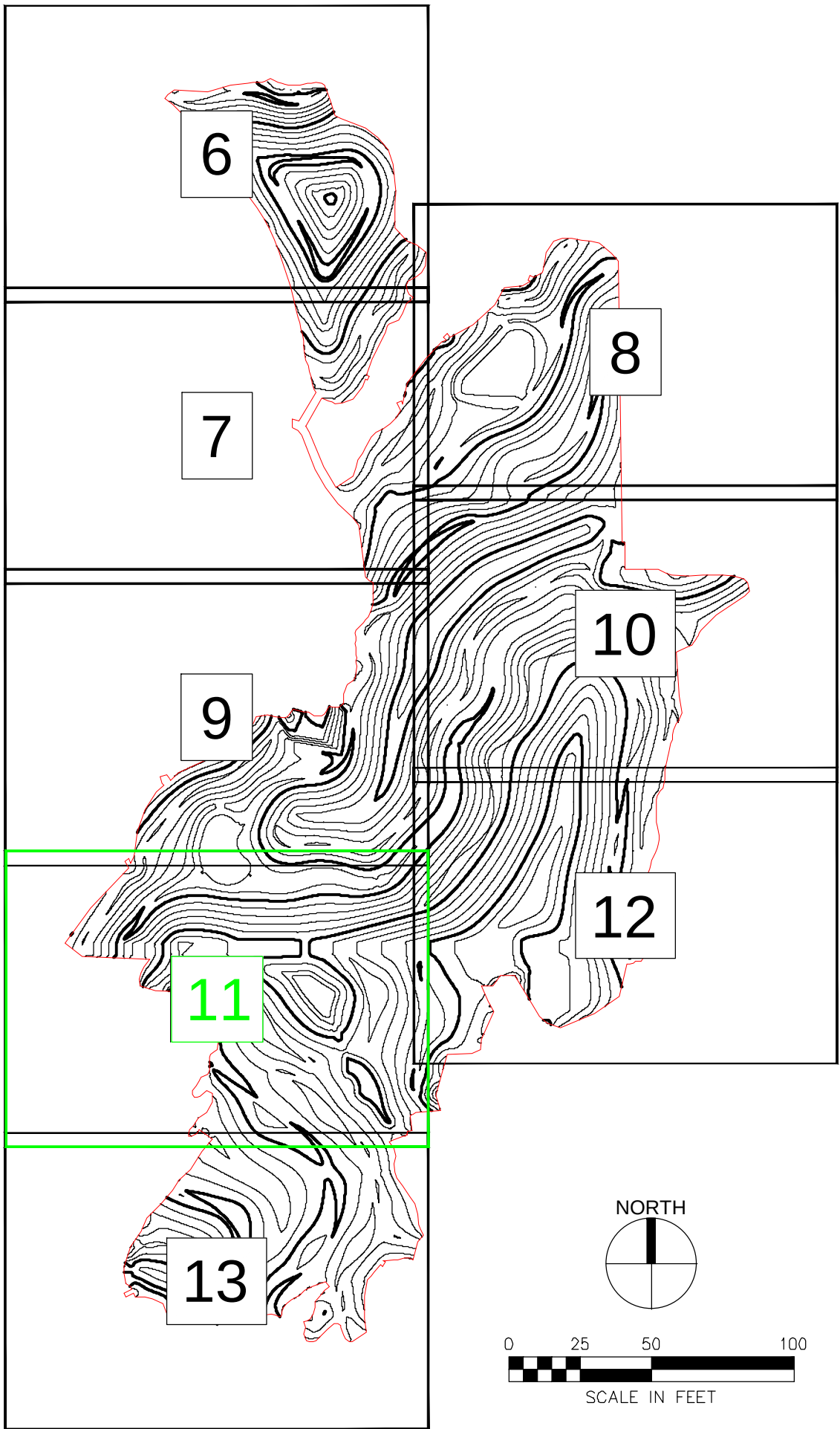
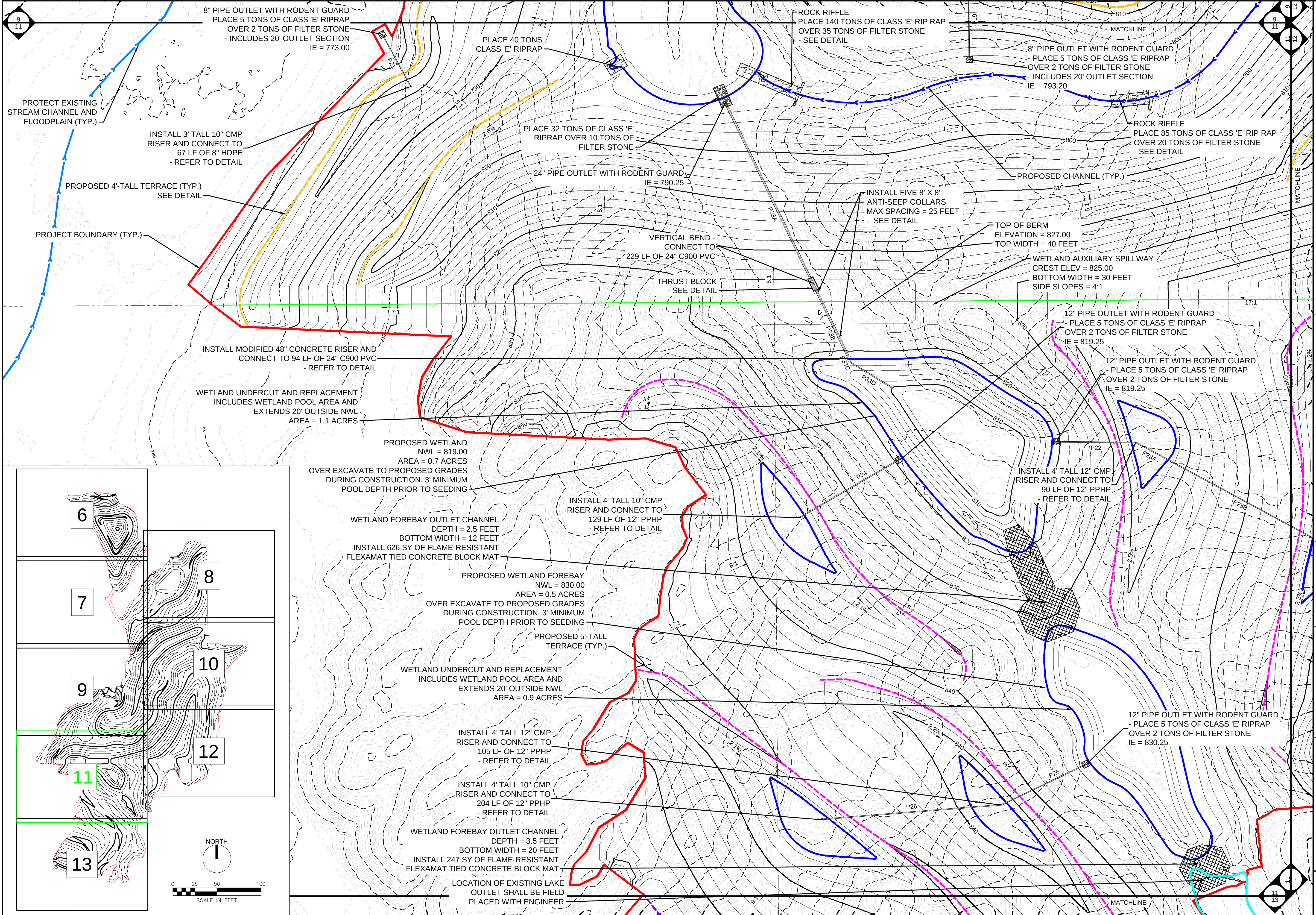
NOAH AND WILCOX EAST
AML RECLAMATION PROJECT

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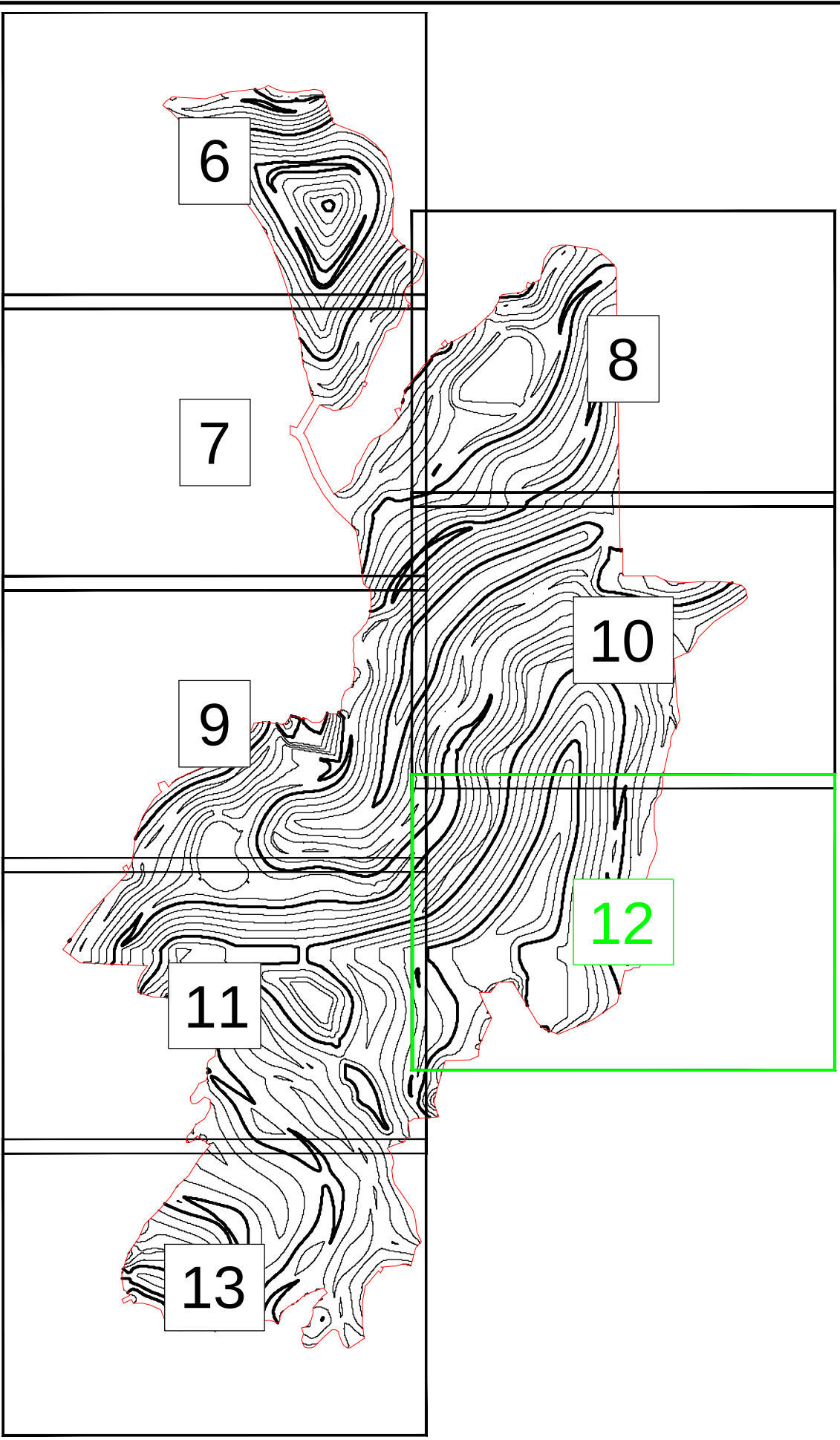
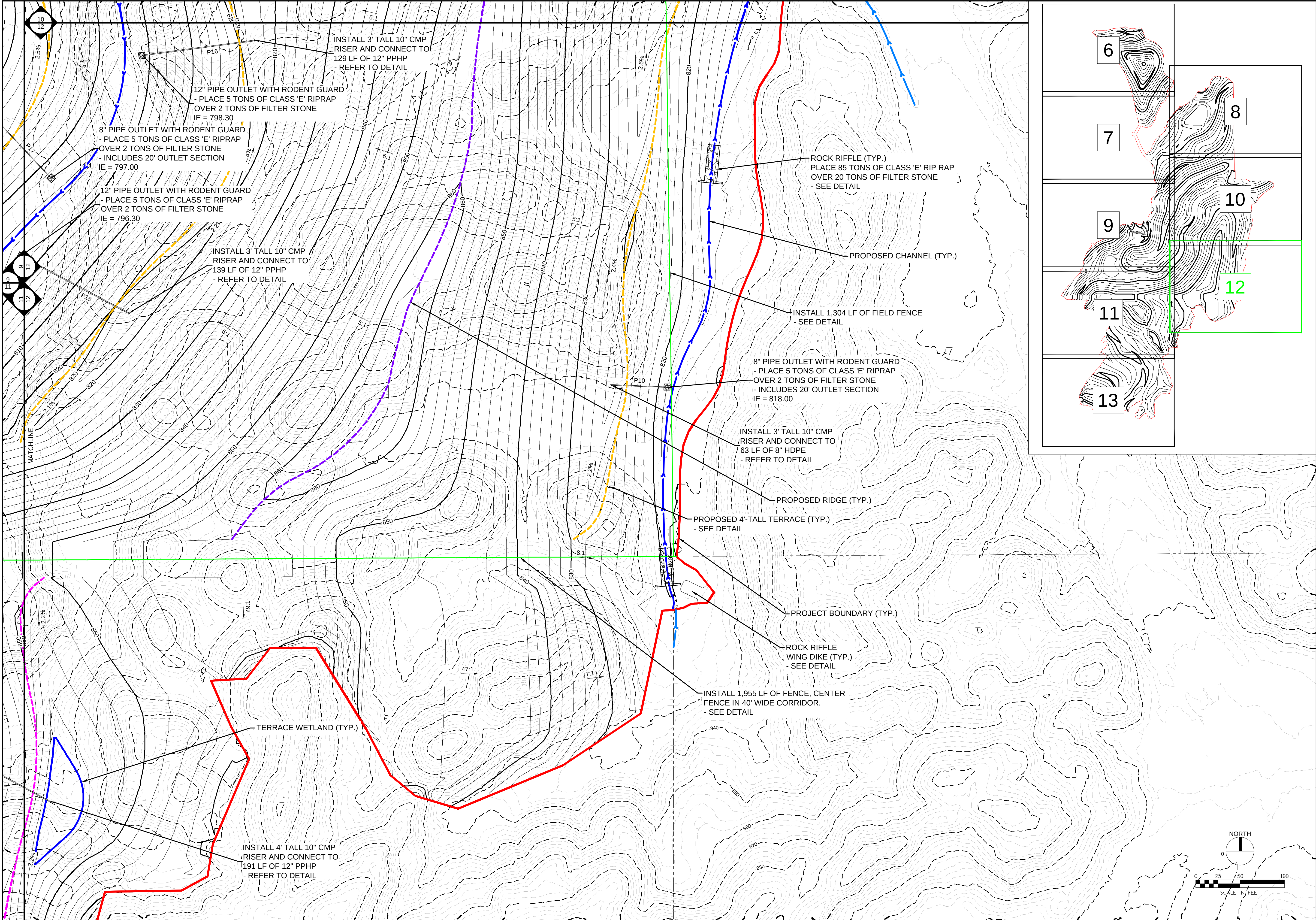
DESIGN BY: AJH DRAWN BY: GHK CHKD. BY: LTM ISSUED: 08-17-2026 REVISED: --- S-H PROJECT NUMBER: 2142305281

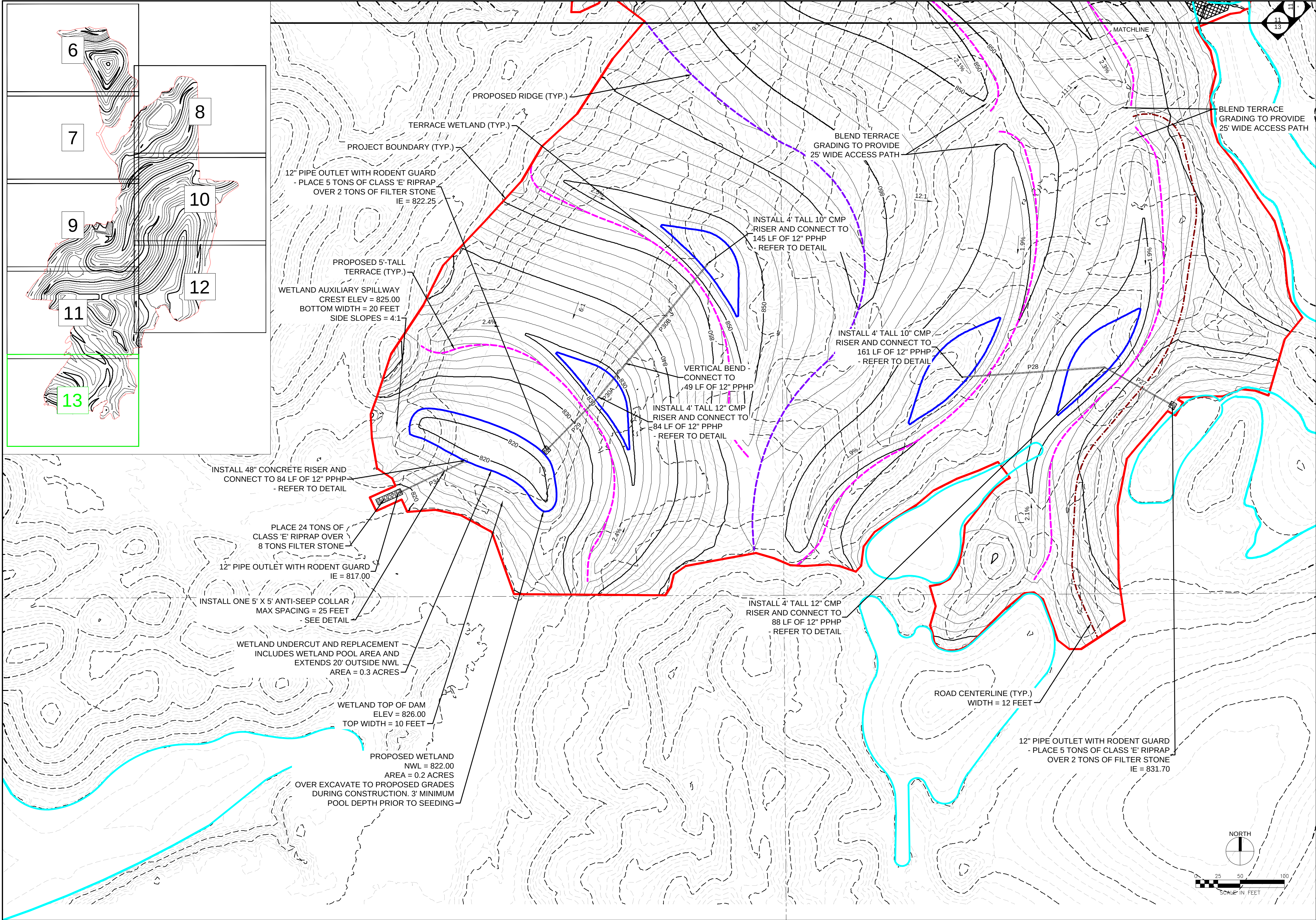
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DRAWN BY: GHK	CHKD. BY: LTM
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