

State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands Reclamation

Funded by the
 United States Department of Interior
 Federal Office of Surface Mining

**Richardson C.C. - Phase II Remedial
 Reclamation Project
 AML-GSIE-1906
 Saline County
 1LR**



**Richardson C.C. - Phase II Remedial
 Saline County**

PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 10:00 A.M., THURSDAY, APRIL 16TH, 2020. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE ENTRANCE OF THE PROJECT SITE, ON CARNAHAN RD., APPROXIMATELY 1/2 MILE NORTHWEST OF THE DOGWALK RD. AND CARNAHAN RD. INTERSECTION.

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Site Layout/Survey Control Point Data
- 4.-5. Existing/Proposed Conditions
6. Details/Typical Sections

I.D.O.T. Standard 280001-07

CONTRACT NO. M1906

Prepared By IDNR Staff

Approved for Bidding:

Donald Stewart, Director
 Office of Mines and Minerals

Certified Copy

Approved By:

Rita M. Lee, Manager
 AMLR Division

Approved By:

Olga Moya Aranzubia, P.E.
 IL Licensed Professional Engineer
 No. 062-062471



Summary of Quantities

Item No.	#	Item	Section	Quantity				Unit	Rates/Remarks
				Site A	Site B	Site C	Total		
NRM20110	1	SPECIAL CLEARING	201	0	0.4	0.6	1	L SUM	
NRM20210	2	EARTH EXCAVATION	202	33	773	341	1,147	CU YD	Compaction per Section 205
NRM25040	3	NITROGEN FERTILIZER NUTRIENT	250	660	4,180	60	4,900	POUND	See
NRM25050	4	PHOSPHORUS FERTILIZER NUTRIENT	250	396	2,508	36	2,940	POUND	Schedule
NRM25060	5	POTASSIUM FERTILIZER NUTRIENT	250	1,584	10,032	144	11,760	POUND	Below
NRM25090	6	SEEDING	250	0.1	2.3	0.6	3.0	ACRE	
25100115	7	MULCH METHOD 2	IDOT 251	0.1	2.3	0.6	3.0	ACRE	Procedure 1 - 2.0 TONS/ACRE
NRM25810	8	MOWING	258	6.5	39.5		46.0	ACRE	
NRM28050	9	INLET AND PIPE PROTECTION	280	1	0	0	1	EACH	Silt Fence Required IDOT Standard 280001-07
28100105	10	STONE RIPRAP, CLASS A3	IDOT 281	54	632	652	1,338	SQ YD	
35101400	11	AGGREGATE BASE COURSE, TYPE B	IDOT 351	224.0	0.0	112.0	336.0	TON	CA-6, 4" Lifts, 8" Total thickness
542C0229	12	PIPE CULVERT CLASS C, TYPE 1, 24"	IDOT 542	0	0	120	120	FEET	Polyethylene with Smooth Interior
NRM61310	13	CLEANING EXISTING CULVERTS	613	0.5	0	0.5	1	L SUM	Existing driveway culvert at Harrison's property and existing box culvert under Carnahan Road.
NRM61570	14	CLEANING EXISTING *LCD BASIN	615	0	0.5	0.5	1	L SUM	
NRM67110	15	MOBILIZATION (MAX. 6% OF BID)	671	0.1	0.5	0.4	1	L SUM	

*LCD - Limestone Compost Drain

GENERAL NOTES

Unless otherwise noted on the plans, all disturbed areas within the construction limits will be amended with agricultural ground limestone, fertilizer nutrients, seeded and mulched at the required rates specified in the plans.

The contractor is responsible for visiting the site and familiarizing himself with the existing conditions and the proposed reclamation work prior to submitting a bid.

The contractor shall provide and pay for all field engineering services to execute the project as specified in the Field Engineering section of the Special Provisions.

The contractor is responsible for locating and protecting all existing utility lines pertaining to the work.

Unless noted on the plans, all onsite access roads may be used for construction but must be maintained during construction and restored to original or better condition at the completion of work by the contractor. Access roads to the site as designated in the plans are to be maintained to the satisfaction of the engineer.

The construction limits will be staked by the contractor prior to construction. The contractor is responsible for the repair and/or restitution at his own expense for all damage done to any area outside the construction limits.

Application rates specified in the plans are shown in the Summary of Quantities-Rates/Remarks column.

CONSTRUCTION NOTES

BURIAL/REMOVAL OF MATERIAL-Concrete and masonry debris designated for burial by the engineer shall be buried at least three feet below the proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer-approved offsite landfill in accordance with Sections 201 and 501 of the Special Provisions.

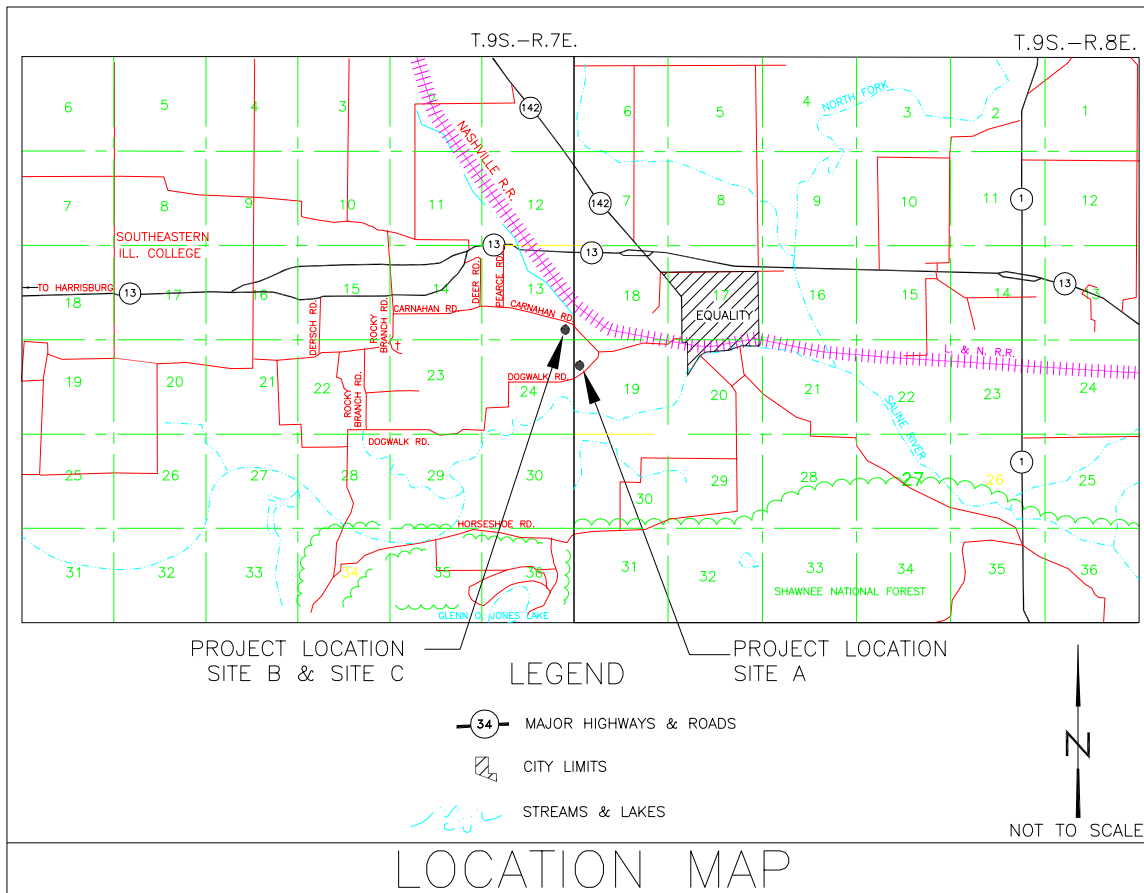
TREE REMOVAL-Trees removed shall be disposed of onsite per Section 201 of the Special Provisions.

ACID WATER TREATMENT-If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

EROSION CONTROL-The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures that have become silted-in or damaged.

AGRICULTURAL GROUND LIMESTONE-Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified in the plans.

MULCHING-Within 24 hours from the time seeding has been completed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 1 of Article 251.03 of the Standard Specifications. If Excelsior or Special Excelsior Blanket is to be used, the blanket shall be placed the same day that the areas are seeded.



Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing

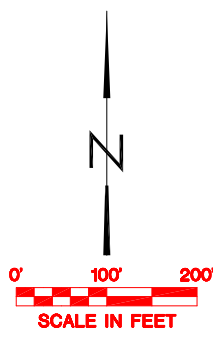
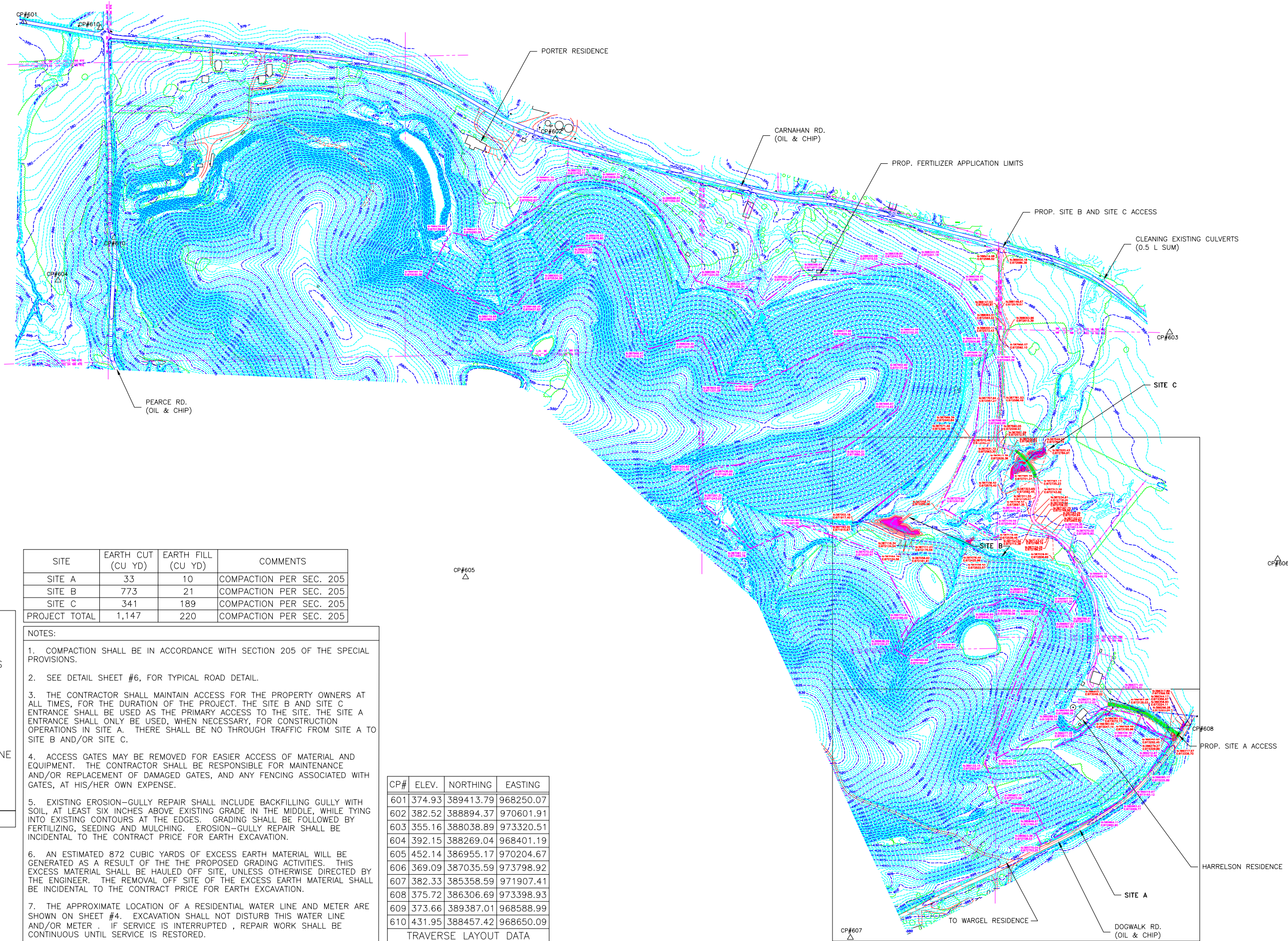
ITEM (unit)	SPRING 2020 MAY 15 - JUN. 15		FALL 2020 AUG. 20 - SEPT. 30			TOTAL QUANTITY
	SITE A	SITE B & C	SITE A	SITE B	SITE C	
SEEDING (acre)	0.0	0.0	0.1	2.3	0.6	3.0
NITROGEN FERTILIZER NUTRIENT (pounds)	650 100 LB./A	3,950 100 LB./A	10 100 LB./A	230 100 LB./A	60 100 LB./A	4,900
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	390 60 LB./A	2,370 60 LB./A	6 60 LB./A	138 60 LB./A	36 60 LB./A	2,940
POTASSIUM FERTILIZER NUTRIENT (pounds)	1,560 240 LB./A	9,480 240 LB./A	24 240 LB./A	552 240 LB./A	144 240 LB./A	11,760
MULCH, METHOD 2 PROCEDURE 1 (acre)	0.0 2 T/A	0.0 2 T/A	0.1 2 T/A	2.3 2 T/A	0.6 2 T/A	3.0
MOWING (acre)	6.5	39.5	0.0	0.0	0.0	46.0

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Drawn By: OMA
Checked By:
Date: 05-19-2020

Summary of Quantities/
General Notes/Location Map
Sheet 2 of 6



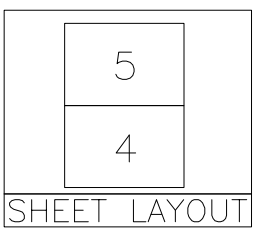
SITE	EARTH CUT (CU YD)	EARTH FILL (CU YD)	COMMENTS
SITE A	33	10	COMPACTION PER SEC. 205
SITE B	773	21	COMPACTION PER SEC. 205
SITE C	341	189	COMPACTION PER SEC. 205
PROJECT TOTAL	1,147	220	COMPACTION PER SEC. 205

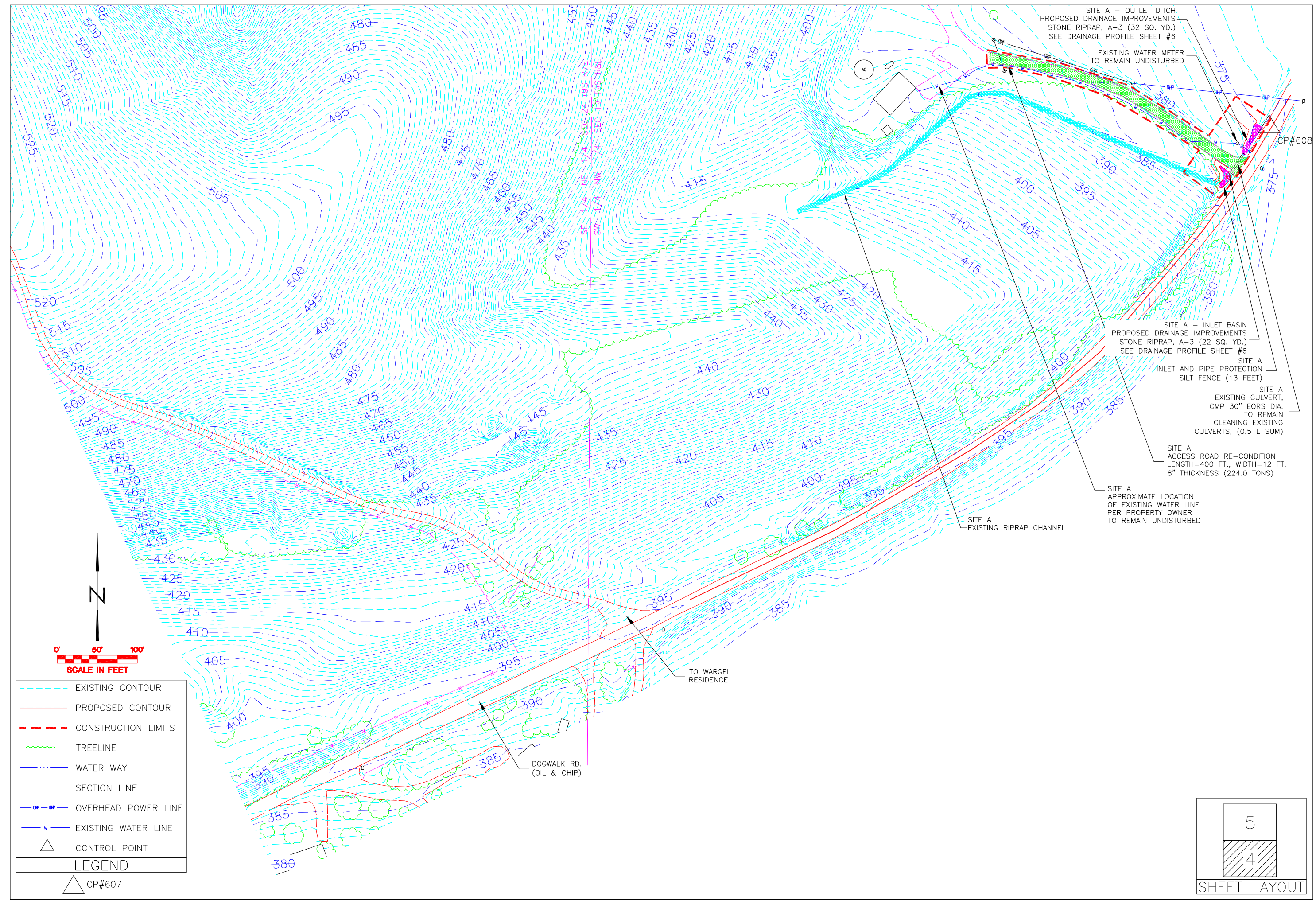
- NOTES:
1. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS.
 2. SEE DETAIL SHEET #6, FOR TYPICAL ROAD DETAIL.
 3. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR THE PROPERTY OWNERS AT ALL TIMES, FOR THE DURATION OF THE PROJECT. THE SITE B AND SITE C ENTRANCE SHALL BE USED AS THE PRIMARY ACCESS TO THE SITE. THE SITE A ENTRANCE SHALL ONLY BE USED, WHEN NECESSARY, FOR CONSTRUCTION OPERATIONS IN SITE A. THERE SHALL BE NO THROUGH TRAFFIC FROM SITE A TO SITE B AND/OR SITE C.
 4. ACCESS GATES MAY BE REMOVED FOR EASIER ACCESS OF MATERIAL AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND/OR REPLACEMENT OF DAMAGED GATES, AND ANY FENCING ASSOCIATED WITH GATES, AT HIS/HER OWN EXPENSE.
 5. EXISTING EROSION-GULLY REPAIR SHALL INCLUDE BACKFILLING GULLY WITH SOIL, AT LEAST SIX INCHES ABOVE EXISTING GRADE IN THE MIDDLE, WHILE TYING INTO EXISTING CONTOURS AT THE EDGES. GRADING SHALL BE FOLLOWED BY FERTILIZING, SEEDING AND MULCHING. EROSION-GULLY REPAIR SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION.
 6. AN ESTIMATED 872 CUBIC YARDS OF EXCESS EARTH MATERIAL WILL BE GENERATED AS A RESULT OF THE THE PROPOSED GRADING ACTIVITIES. THIS EXCESS MATERIAL SHALL BE HAULED OFF SITE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE REMOVAL OFF SITE OF THE EXCESS EARTH MATERIAL SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION.
 7. THE APPROXIMATE LOCATION OF A RESIDENTIAL WATER LINE AND METER ARE SHOWN ON SHEET #4. EXCAVATION SHALL NOT DISTURB THIS WATER LINE AND/OR METER. IF SERVICE IS INTERRUPTED, REPAIR WORK SHALL BE CONTINUOUS UNTIL SERVICE IS RESTORED.

CP#	ELEV.	NORTHING	EASTING
601	374.93	389413.79	968250.07
602	382.52	388894.37	970601.91
603	355.16	388038.89	973320.51
604	392.15	388269.04	968401.19
605	452.14	386955.17	970204.67
606	369.09	387035.59	973798.92
607	382.33	385358.59	971907.41
608	375.72	386306.69	973398.93
609	373.66	389387.01	968588.99
610	431.95	388457.42	968650.09

TRAVERSE LAYOUT DATA

- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - CONSTRUCTION LIMITS
 - TREELINE
 - WATER WAY
 - SECTION LINE
 - OVERHEAD POWER LINE
 - FERTILIZER LIMITS
 - △ CONTROL POINT
- LEGEND





SITE A - OUTLET DITCH
 PROPOSED DRAINAGE IMPROVEMENTS
 STONE RIPRAP, A-3 (32 SQ. YD.)
 SEE DRAINAGE PROFILE SHEET #6

EXISTING WATER METER
 TO REMAIN UNDISTURBED

SITE A - INLET BASIN
 PROPOSED DRAINAGE IMPROVEMENTS
 STONE RIPRAP, A-3 (22 SQ. YD.)
 SEE DRAINAGE PROFILE SHEET #6

SITE A
 INLET AND PIPE PROTECTION
 SILT FENCE (13 FEET)

SITE A
 EXISTING CULVERT,
 CMP 30" EQRS DIA.
 TO REMAIN
 CLEANING EXISTING
 CULVERTS, (0.5 L SUM)

SITE A
 ACCESS ROAD RE-CONDITION
 LENGTH=400 FT., WIDTH=12 FT.
 8" THICKNESS (224.0 TONS)

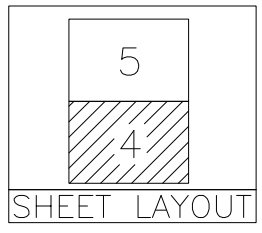
SITE A
 APPROXIMATE LOCATION
 OF EXISTING WATER LINE
 PER PROPERTY OWNER
 TO REMAIN UNDISTURBED

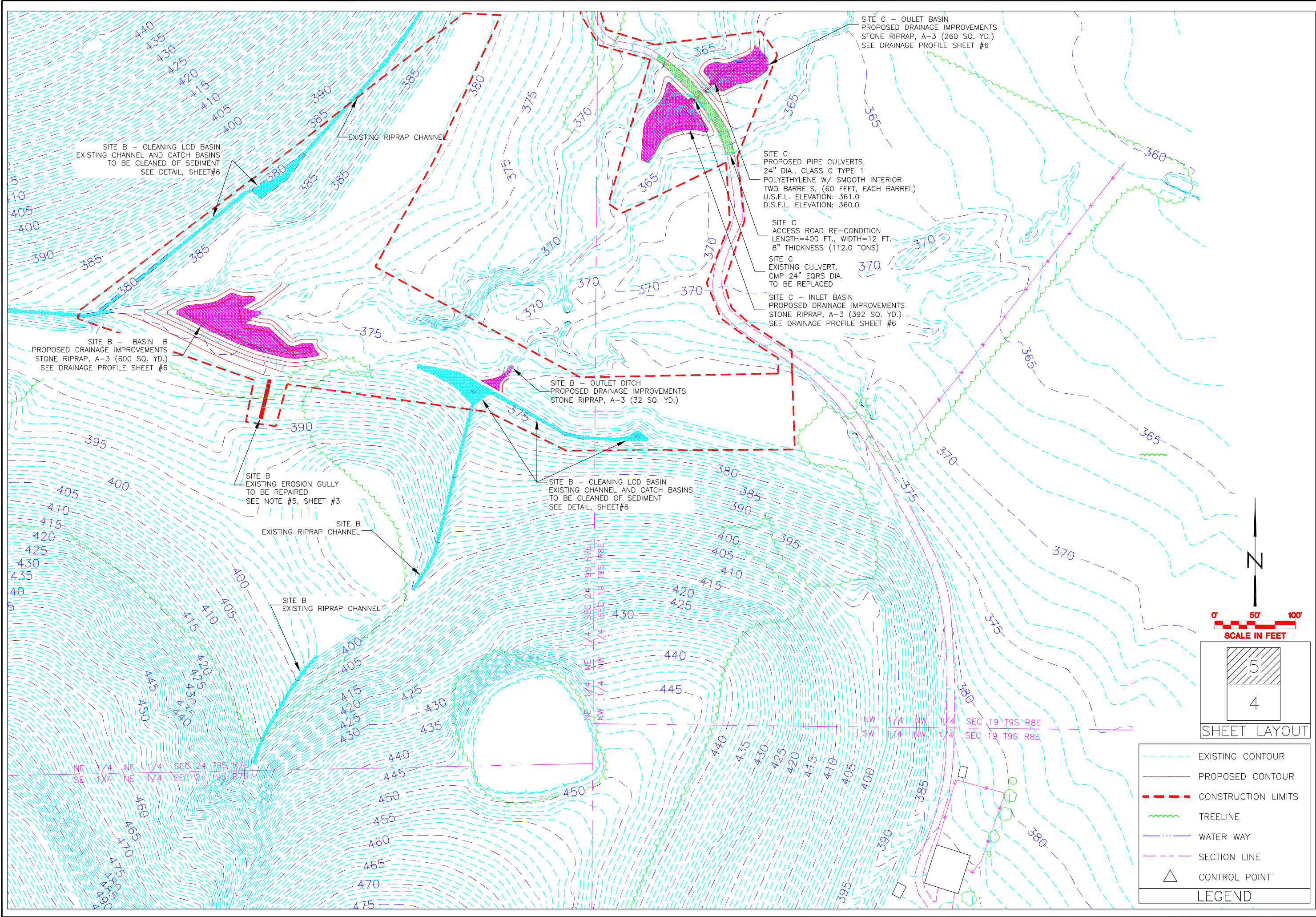
SITE A
 EXISTING RIPRAP CHANNEL

TO WARGEL
 RESIDENCE

DOGWALK RD.
 (OIL & CHIP)

- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - CONSTRUCTION LIMITS
 - TREELINE
 - WATER WAY
 - SECTION LINE
 - OVERHEAD POWER LINE
 - EXISTING WATER LINE
 - CONTROL POINT
- LEGEND**
- CP#607





SITE B - CLEANING LCD BASIN
EXISTING CHANNEL AND CATCH BASINS
TO BE CLEANED OF SEDIMENT
SEE DETAIL, SHEET #6

EXISTING RIPRAP CHANNEL

SITE C - OULET BASIN
PROPOSED DRAINAGE IMPROVEMENTS
STONE RIPRAP, A-3 (260 SQ. YD.)
SEE DRAINAGE PROFILE SHEET #6

SITE C
PROPOSED PIPE CULVERTS,
24" DIA., CLASS C TYPE 1
POLYETHYLENE W/ SMOOTH INTERIOR
TWO BARRELS, (60 FEET, EACH BARREL)
U.S.F.L. ELEVATION: 361.0
D.S.F.L. ELEVATION: 360.0

SITE C
ACCESS ROAD RE-CONDITION
LENGTH=400 FT., WIDTH=12 FT.
8" THICKNESS (112.0 TONS)

SITE C
EXISTING CULVERT,
CMP 24" EQRS DIA.
TO BE REPLACED

SITE C - INLET BASIN
PROPOSED DRAINAGE IMPROVEMENTS
STONE RIPRAP, A-3 (392 SQ. YD.)
SEE DRAINAGE PROFILE SHEET #6

SITE B - BASIN B
PROPOSED DRAINAGE IMPROVEMENTS
STONE RIPRAP, A-3 (600 SQ. YD.)
SEE DRAINAGE PROFILE SHEET #6

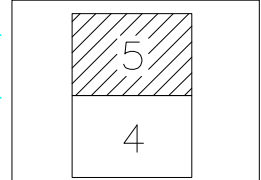
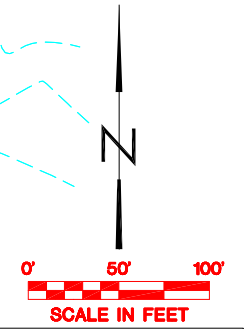
SITE B - OULET DITCH
PROPOSED DRAINAGE IMPROVEMENTS
STONE RIPRAP, A-3 (32 SQ. YD.)

SITE B
EXISTING EROSION GULLY
TO BE REPAIRED
SEE NOTE #5, SHEET #3

SITE B - CLEANING LCD BASIN
EXISTING CHANNEL AND CATCH BASINS
TO BE CLEANED OF SEDIMENT
SEE DETAIL, SHEET #6

SITE B
EXISTING RIPRAP CHANNEL

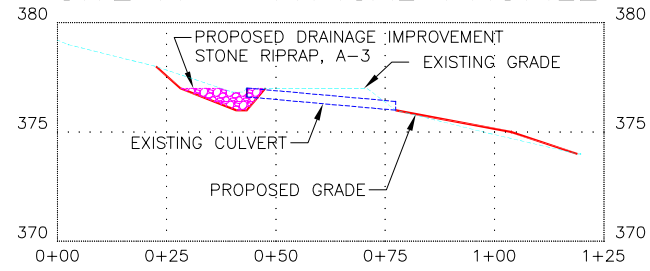
SITE B
EXISTING RIPRAP CHANNEL



SHEET LAYOUT

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	TREELINE
	WATER WAY
	SECTION LINE
	CONTROL POINT
LEGEND	

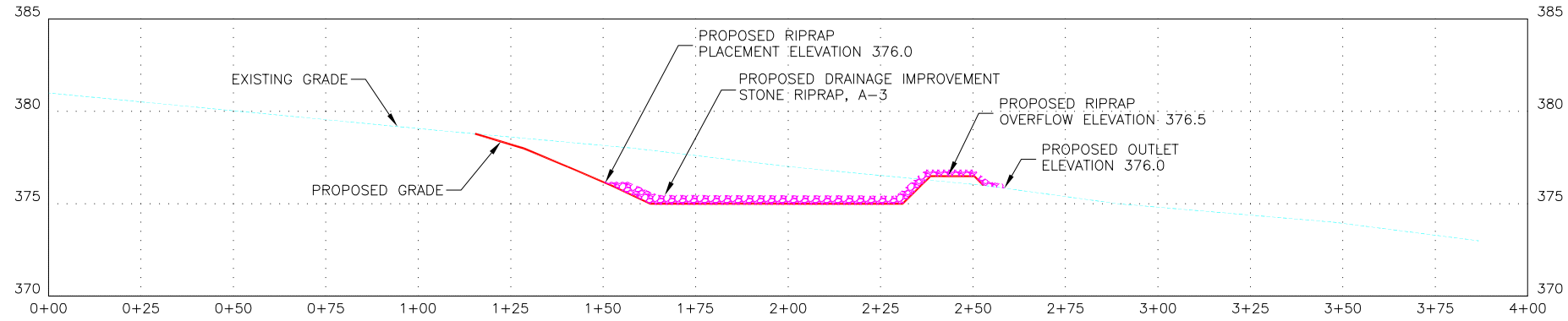
SITE A – TYPICAL PROFILE



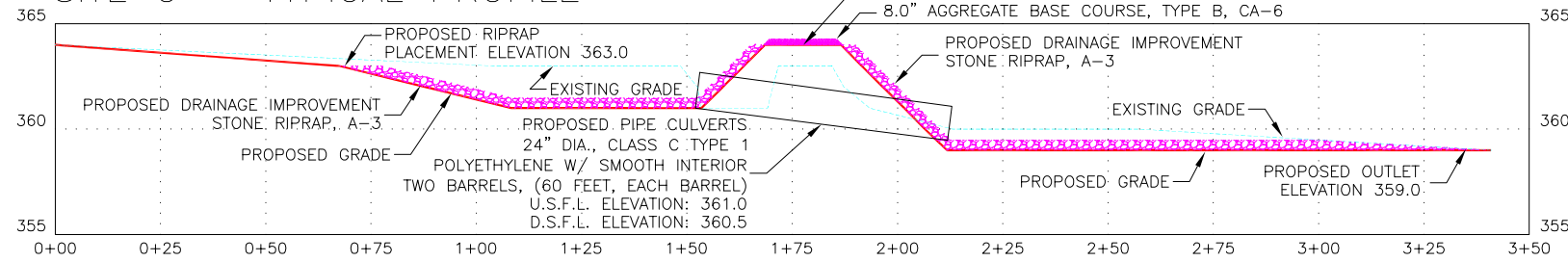
NOTES:

1. DURING THE REMOVAL OF SEDIMENT FROM THE EXISTING LIMESTONE COMPOST (LCD) BASINS, EVERY EFFORT SHOULD BE MADE TO KEEP THE PASSIVE WATER TREATMENT SYSTEM ANOXIC. KEEPING THE PASSIVE WATER TREATMENT ANOXIC CAN BE ACHIEVED BY MAINTAINING THE WATER LEVEL TO APPROXIMATELY 3 FEET IN DEPTH. IF THE EXISTING BASINS ARE COMPLETELY DEWATERED, TO ACHIEVE BETTER REMOVAL OF SEDIMENT, THESE ACTIVITIES SHOULD BE PERFORMED AS QUICKLY AS POSSIBLE, AND WITHIN THE SAME WORKING DAY. DITCHES AFFECTED AND WHERE SEDIMENT MAY BE REMOVED CAN BECOME DRY DURING SEDIMENT REMOVAL.
2. ALL RIPRAP REMOVED AND/OR DISLODGED DURING THE REMOVAL OF SEDIMENT FROM LCD BASINS AND/OR AFFECTED DITCHES SHALL BE REPLACED. ANY MATERIAL AND/OR GRADING WORK TO BE COMPLETED DUE TO REMOVAL OR DISLODGMET OF EXISTING RIPRAP SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR CLEANING EXISTING LCD BASIN.
3. CLEANING EXISTING LCD BASIN SHALL BE PAID FOR AS A LUMP SUM ITEM. AN ESTIMATED VOLUME OF SEDIMENT HAS BEEN CALCULATED TO BE APPROXIMATELY TO BE 80,800 GALLONS OF SATURATED SEDIMENT.
4. CLEANING EXISTING LCD SHALL INCLUDE THE BASINS AND THE FULL LENGTH OF RIPRAP DITCHES ENTERING THE BASINS.
5. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS. ALONG THE ROAD RE-CONDITIONING, SITE C, COMPACTION WILL BE REQUIRED TO THE VERY TOP OF THE SUBGRADE, INCLUDING THE TOP 12 INCHES.

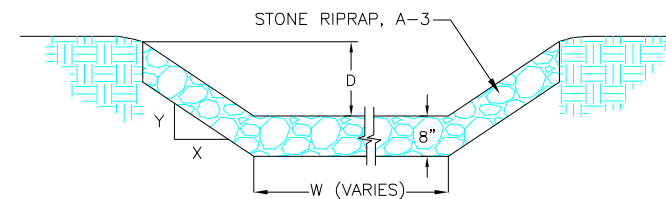
SITE B – TYPICAL PROFILE



SITE C – TYPICAL PROFILE



SITE	"D" DIMENSION	"X:Y" SLOPE	STONE RIPRAP A-3 BASIN QUANTITY
A – INLET BASIN	1 FT.	4:1	22 SQ. YD.
A – OUTLET DITCH	1 FT.	4:1	32 SQ. YD.
B – BASIN	<1 FT.	5:1	600 SQ. YD.
B – OUTLET DITCH	1 FT.	4:1	32 SQ. YD.
C – INLET BASIN	<2 FT.	5:1	392 SQ. YD.
C – OUTLET BASIN	<2 FT.	5:1	260 SQ. YD.

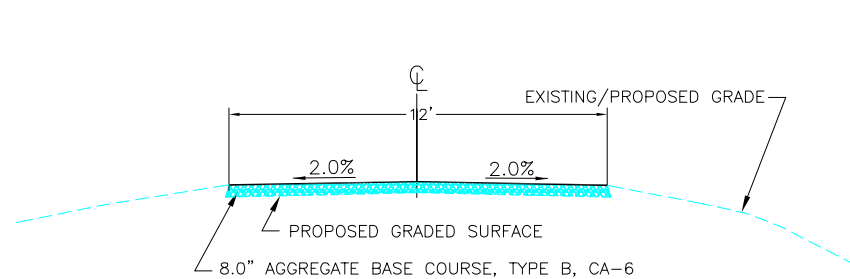


TYPICAL PROFILE DETAIL – PROPOSED DRAINAGE IMPROVEMENTS

SITE A, SITE B & SITE C DRAINAGE IMPROVEMENTS DETAIL A-6 – NOT TO SCALE

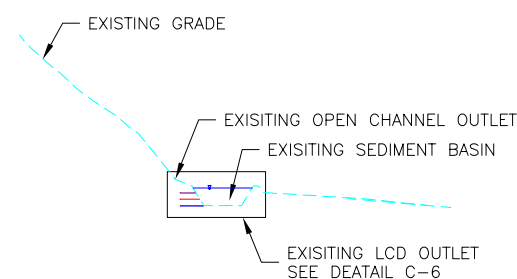
STONE RIPRAP BASINS – DRAINAGE IMPROVEMENTS

DETAIL B-6, TYPICAL SECTION, NOT TO SCALE



TYPICAL SECTION DETAIL – ROAD RE-CONDITIONING

SITE A & SITE C ROAD RE-CONDITIONING DETAIL C-6 – NOT TO SCALE



EXISTING LIMESTONE COMPOST DRAIN BASIN

DETAIL D-6, TYPICAL PROFILE, NOT TO SCALE; NO WORK REQUIRED; INFORMATIONAL PURPOSES ONLY

