

GENERAL NOTES

EARTHWORK & GRADING

LEGEND

ABBREVIATIONS

- ALL EXISTING SITE TOPOGRAPHY, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM SURVEY DATA PREPARED BY:
STACEY FERGUSON LAND SURVEYING, INC.
239 E. WILSON STREET
BATAVIA, ILLINOIS 60510
TEL: 630/879-0158
- ALL EXISTING UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AND NOTIFY THE CONSERVATION FOUNDATION AND/OR CITY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING HIS WORK.
- THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS. THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREE TO HOLD HARMLESS V3 COMPANIES, LTD., THE CITY, THE CONSERVATION FOUNDATION AND THEIR EMPLOYEES AND AGENTS WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, HIS AGENTS, THE ENGINEER, HIS EMPLOYEES AND AGENTS.
- ALL ELEVATIONS ARE BASED ON SITE BENCHMARK DATUM. BENCHMARK LOCATIONS AND ELEVATIONS ARE SHOWN ON THE COVER SHEET.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.
- THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, AND ALL ADDENDA THERETO, SHALL GOVERN THE WORK UNDER THIS CONTRACT, EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
- NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.
- THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS WHERE HIS OPERATIONS ABUT PUBLIC THOROUGHFARES AND ADJACENT PROPERTY.
- CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. AT THE END OF EACH DAY THE CONTRACTOR SHALL CLEAN UP ALL MUD OR SOIL WHICH HAS BEEN TRACKED ONTO PUBLIC STREETS.
- PRIOR TO NEW WORK THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITY LINES AND STRUCTURES TO BE CONNECTED TO PROPOSED WORK. DISCREPANCIES SHALL BE REPORTED TO THE CONSERVATION FOUNDATION AND/OR CITY ENGINEER IMMEDIATELY.
- BEFORE EXCAVATING OVER OR ADJACENT TO ANY EXISTING UTILITIES, NOTIFY THE OWNER OF SUCH UTILITIES TO ENSURE THAT PROTECTIVE WORK WILL BE COORDINATED AND PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER OF THE UTILITY INVOLVED. IF ANY EXISTING SERVICE LINES, UTILITIES AND UTILITY STRUCTURES WHICH ARE TO REMAIN IN SERVICE ARE UNCOVERED OR ENCOUNTERED DURING THIS OPERATION, THEY SHALL BE SAFEGUARDED, PROTECTED FROM DAMAGE AND SUPPORTED IF NECESSARY.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM IN ACCORDANCE WITH THE EROSION CONTROL MEASURES INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM THIS PROJECT FROM STORM SEWERS AND DRAINAGE STRUCTURES.
- THE CONTRACTOR SHALL NOTIFY THE CONSERVATION FOUNDATION AND THE CITY 48 HOURS PRIOR TO ANY NEW CONSTRUCTION.
- ALL TREES SHALL BE PROTECTED FROM DAMAGE TO TRUNKS, BRANCHES AND ROOTS. NO EXCAVATING, FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.
- STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE. AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY IN CONFORMANCE WITH CITY STANDARDS.
- PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS SHOWN.
- PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES IN OR WITHIN 2 FEET OF PAVED AREAS PER DETAIL ON DRAWING.
- CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL UNDERGROUND UTILITY CONSTRUCTION AND SUBMIT "RECORD" INFORMATION TO THE CITY.
- EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS.
- EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

- WORK UNDER THIS SECTION SHALL INCLUDE THE ACTIVITIES NECESSARY TO COMPLY WITH THE PLANS. SPECIFIC SEQUENCING AND OTHER EARTHWORK & GRADING SPECIFICATION SHALL BE DETERMINED BY THE CONSERVATION FOUNDATION AND/OR THE CITY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE CONSERVATION FOUNDATION.

SEEDING & PLANTING

- WORK UNDER THIS SECTION SHALL INCLUDE THE ACTIVITIES NECESSARY TO COMPLY WITH THE PLANS. SPECIFIC SPECIFICATIONS RELATED TO PLANTING AND SEEDING ACTIVITIES SHALL BE PROVIDED BY THE CONSERVATION FOUNDATION AND/OR THE CITY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE CONSERVATION FOUNDATION.

EXISTING	PROPOSED	DESCRIPTION
		RIGHT-OF-WAY LINE
		PROPERTY LINE (EXTERIOR)
		LOT LINE (INTERIOR)
		EASEMENT LINE
		FENCE LINE
		CENTERLINE
		PROPERTY CORNER
		CONTOUR
		CURB
		DEPRESSED CURB
		REVERSE PITCHED CURB
		SPOT ELEVATION
		UTILITY STUB
		SANITARY SEWER
		SANITARY FORCE MAIN
		STORM SEWER
		WATER MAIN
		GAS MAIN
		UNDERGROUND TELEPHONE & ELECTRIC DUCT BANK
		BURIED CABLE-ELECTRIC
		BURIED CABLE-TELEPHONE
		UTILITY STRUCTURE WITH CLOSED LID
		CURB INLET
		DRAINAGE STRUCTURE WITH OPEN LID
		FIRE HYDRANT
		VALVE IN VALVE BOX
		GATE VALVE IN VALVE VAULT
		POST INDICATOR VALVE
		THRUST BLOCK
		TREE
		TREE LINE
		CONCRETE HEADWALL
		SUBMERGED HEADWALL
		FLARED END SECTION (F.E.S.)
		GUY WIRES
		FLOOD LIGHT
		UTILITY POLE
		LIGHT STANDARD
		TRAFFIC SIGNAL POLE
		HAND HOLE
		SOIL BORING
		IRRIGATION HEADS
		SIGN
		TELEPHONE MANHOLE
		MONITORING WELL
		TELEPHONE PEDESTAL
		TRANSFORMER PAD
		UTILITY TO BE ABANDONED
		FEATURE TO BE REMOVED
		STORMWATER FLOW DIRECTION
		STORMWATER OVERFLOW ROUTE
		STRAWBALE DITCH CHECK
		STRAW BALE SEDIMENTATION TRAP
		SILT FENCE
		WATER MAIN PROTECTION
		TRENCH BACKFILL
		UTILITY CROSSING
		GUARDRAIL
		RAILROAD TRACKS
		REVISION DELINEATION
		CONSTRUCTION LIMIT LINE

ABBREVIATIONS	DESCRIPTION
B-B	BACK TO BACK OF CURB
B/C	BACK OF CURB
BLDG	BUILDING
BM	BENCHMARK
BV/VV	BUTTERFLY VALVE IN VALVE VAULT
C & G	CURB AND GUTTER
CB	CATCH BASIN
C	CENTERLINE
CL	CLOSED LID
DIP	DUCTILE IRON PIPE
DIA.	DIAMETER
DW/M	DUCTILE IRON WATER MAIN
DWG.	DRAWING
E	EAST OR ELECTRIC
EJ	EXPANSION JOINT
ELEV.	ELEVATION
E/P	EDGE OF PAVEMENT
EX.	EXISTING
F & G	FRAME & GRATE
FES	FLARED END SECTION
F-F	FACE TO FACE OF CURB
F.F.	FINISHED FLOOR
F/G	FINISHED GRADE
FH	FIRE HYDRANT
F/L	FLOW LINE
FO	FIRE OPTIC CABLE
G	GAS LINE
GV/VB	GATE VALVE IN VALVE BOX
GV/VV	GATE VALVE IN VALVE VAULT
HDCP	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDW	HEADWALL
HOR.	HORIZONTAL
HP	HIGH POINT
HWL	HIGH WATER LEVEL
IE	INVERT ELEVATION
IN	INLET
LF	LINEAL FEET
LP	LOW POINT OR LIGHT POLE
L	LEFT
MH	MANHOLE
MW	MONITORING WELL
N	NORTH
N.I.C.	NOT IN CONTRACT / NOT INCLUDED
NWL	NORMAL WATER LEVEL
O.C.	ON CENTER
OL	OPEN LID
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
P.U.E.	PUBLIC UTILITY EASEMENT
PVC	POINT OF VERTICAL CURVATURE OR POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS OR RIGHT
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
S	SLOPE OR SOUTH
SAN	SANITARY
SF	SILTATION FENCE
SFM	SANITARY FORCE MAIN
SHT	SHEET
SHW	SUBMERGED HEADWALL
SMH	SANITARY MANHOLE
STA.	STATION
ST	STORM STRUCTURE OR STORM SEWER
STMH	STORM MANHOLE
T	TANGENT LENGTH OR TELEPHONE
T/C	TOP OF CURB
T/P	TOP OF PIPE
TY	TYPE
TYP	TYPICAL
RCP	REINFORCED CONCRETE PIPE
UP	UTILITY POLE
VB	VALVE BOX
VC	VERTICAL CURVE
VERT.	VERTICAL
VV	VALVE VAULT
W	WEST
WM	WATER MAIN

V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

Visio, Vertere, Virtute... "The Vision to Transform with Excellence"

REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

PROJECT NO.: 06013	DESIGNED BY: DLM
FILE NAME: GAL06013	DRAWN BY: GSW
DATE: 11/11/10	CHECKED BY: DLM
SCALE: NONE	PROJECT MANAGER: KJ

**WINDMILL LAKES UNIT 2
DETENTION BASIN RETROFIT**

BATAVIA ILLINOIS

GENERAL NOTES AND SPECIFICATIONS

DRAWING NO. **1.1**

FES 1-1
18" FLARED END SECTION
WITH GRATE AND 5 SYD RIP-RAP
IE 692.00

FES 1-2
18" FLARED END SECTION WITH GRATE,
10 SYD RIP-RAP & LEVEL SPREADER
IE 691.00

FES 2-1
18" FLARED END SECTION
WITH GRATE AND 5 SYD RIP-RAP
IE 692.00

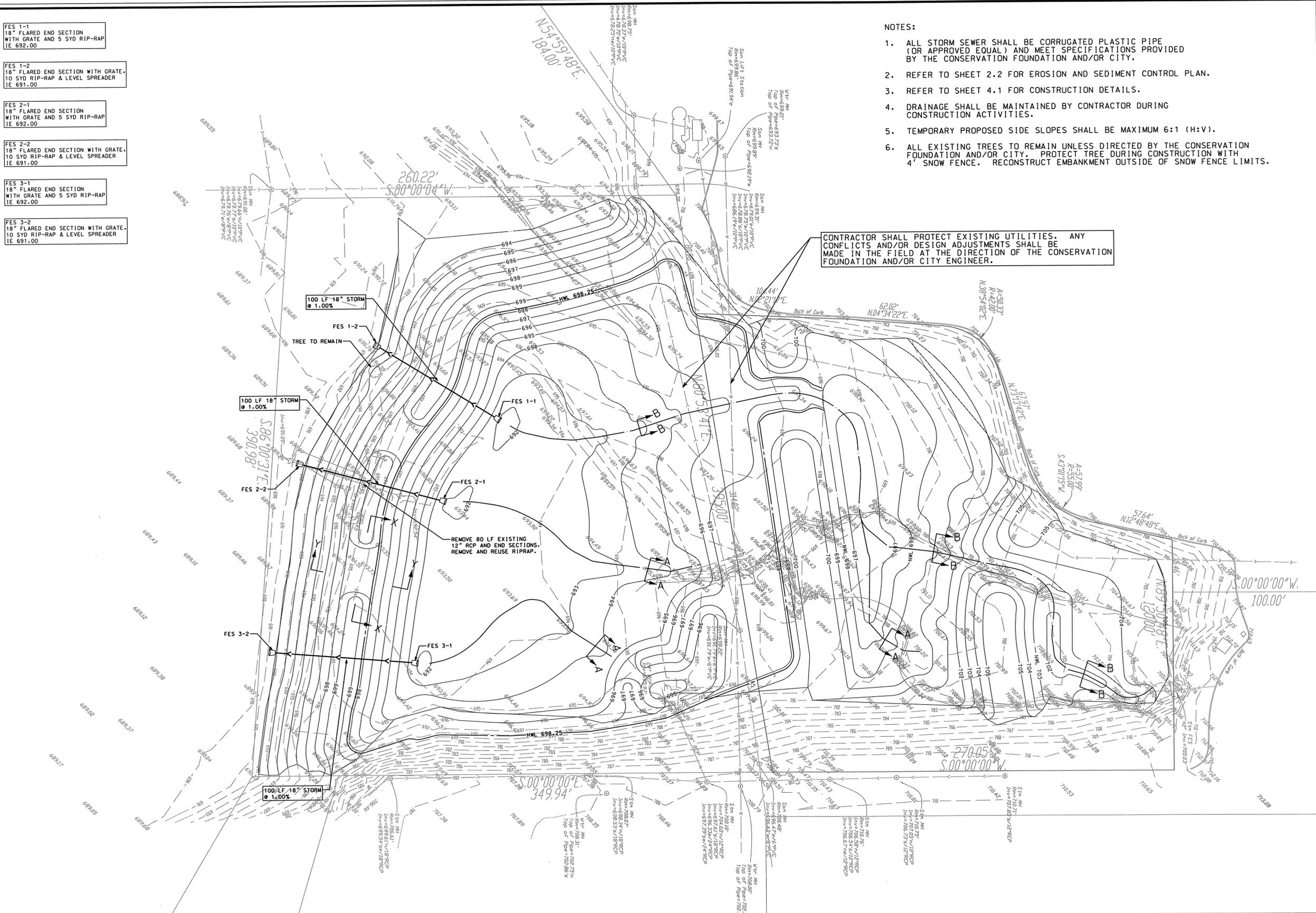
FES 2-2
18" FLARED END SECTION WITH GRATE,
10 SYD RIP-RAP & LEVEL SPREADER
IE 691.00

FES 3-1
18" FLARED END SECTION
WITH GRATE AND 5 SYD RIP-RAP
IE 692.00

FES 3-2
18" FLARED END SECTION WITH GRATE,
10 SYD RIP-RAP & LEVEL SPREADER
IE 691.00

- NOTES:
- ALL STORM SEWER SHALL BE CORRUGATED PLASTIC PIPE (OR APPROVED EQUAL) AND MEET SPECIFICATIONS PROVIDED BY THE CONSERVATION FOUNDATION AND/OR CITY.
 - REFER TO SHEET 2.2 FOR EROSION AND SEDIMENT CONTROL PLAN.
 - REFER TO SHEET 4.1 FOR CONSTRUCTION DETAILS.
 - DRAINAGE SHALL BE MAINTAINED BY CONTRACTOR DURING CONSTRUCTION ACTIVITIES.
 - TEMPORARY PROPOSED SIDE SLOPES SHALL BE MAXIMUM 6:1 (H:V).
 - ALL EXISTING TREES TO REMAIN UNLESS DIRECTED BY THE CONSERVATION FOUNDATION AND/OR CITY. PROTECT TREE DURING CONSTRUCTION WITH 4' SNOW FENCE. RECONSTRUCT EMBANKMENT OUTSIDE OF SNOW FENCE LIMITS.

CONTRACTOR SHALL PROTECT EXISTING UTILITIES. ANY CONFLICTS AND/OR DESIGN ADJUSTMENTS SHALL BE MADE IN THE FIELD AT THE DIRECTION OF THE CONSERVATION FOUNDATION AND/OR CITY ENGINEER.



1" = 30'
SCALE
30 0 30 60
FEET



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630.724.9202 fax
www.v3co.com

REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

PROJECT NO: 06013
FILE NAME: GRD06013
DATE: 11/11/10
SCALE: 1" = 30'

DESIGNED BY: SWA
DRAWN BY: JMD
CHECKED BY: DLM
PROJECT MANAGER: KJ

**WINDMILL LAKES UNIT 2
DETENTION BASIN RETROFIT**

BATAVIA ILLINOIS

SITE GRADING AND DRAINAGE PLAN

DRAWING NO.
2.1

STORM WATER POLLUTION PREVENTION PLAN NOTES

This plan has been prepared to comply with the NPDES permit number ILR10, issued by the Illinois Environmental Protection Agency (IEPA) for stormwater discharges from construction site activities.

The permittee must comply with all conditions of the General Permit. Any non-compliance constitutes a violation of the IEPA act and the Clean Water Act and can be grounds for enforcement action, permit revocation, modification, re-issuance, termination, or denial of a permit renewal.

- Site Description**
 - The construction activity consists of mass grading, construction of utilities and native vegetation restoration.
 - The intended sequence of major activities which disturb soils for major portions of the site is clearing and grading, topsoil stripping, mass grading, utility construction, fine grading, placement of topsoil and establishment of permanent vegetation.
 - The total area of the site is approximately 4.5 acres and approximately 3.8 acres are expected to be disturbed by excavation, grading, or other activities.
 - The runoff coefficient of the site after construction activities are completed is estimated to be 0.20. The soil type that is prevalent on the site are E1a and E1aV. The project consists of predominantly type C soils according to the Soil Survey of Cook County.
 - This plan indicates drainage patterns and approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent off-site sediment tracking, areas of soil disturbance, the location of major structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water.
- The receiving water is Mill Creek. There are no wetlands on the property.

2. Controls

- Erosion and Sediment Controls**
 - (i) Stabilization Practices**
 - Prior to mass work of each area of the site, all fences and stabilized construction entrances shall be installed as indicated on the plan.
 - Upon completion of mass grading of the construction site, all fences and outlet pipes, rock check dams and silt fence check dams shall be installed.
 - All disturbed areas of the site shall be brought to final grade, equipped with topsoil and established with permanent vegetation as soon as practicable.
 - These controls shall be actively maintained until final stabilization of those portions of the site upward of the perimeter control.

Except as provided in paragraphs (A) and (B) below, stabilization measures shall be released as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.

- Where the initiation of stabilization measures by the 7th day after construction activity temporarily or permanently ceases is not practicable, stabilization measures shall be released as soon as practicable.
- Where construction activity will resume on a portion of the site within 14 days from when activities ceased, i.e., the last time period that construction activity is temporary ceased is less than 14 days) then stabilization measures do not have to be initiated on that portion of site by the 7th day after construction activity temporarily ceased.

- (ii) Structural Practices**
 - Disturbed areas of the site shall be graded to drain to the stormwater facility outlet.
 - Silt fence shall be installed downstream of any areas that do not drain through the stormwater facility. Silt fence shall be actively maintained and final stabilization of those portions of the site upward of the perimeter control, rock check dams and flow logs shall be installed in areas of concentrated flow.

b. Storm Water Management

- The site is an existing stormwater management facility that has been designed for a storm event equal to or greater than a 100-year 24 hour rainfall event. The detention pond will be planted and seeded with native vegetation.
- Flow logs shall be placed at inlet and discharge locations to provide a non-erosive velocity flow log within the stormwater management system.

c. Other Controls

- Waste Disposal.** No solid materials, including building materials, shall be discharged to waters of the State, except as authorized by a discharge permit.
- The contractor is responsible for compliance with applicable State and/or local waste disposal and sanitary sewer or septic system regulations.

d. Approved State or Local Plans. Except where modified on this plan, all work proposed herein shall be in accordance with the Illinois County Stormwater Ordinance, the City of Batavia municipal code, and the requirements contained in Illinois Environmental Protection Agency's Urban Manual, 2010. In the event of conflicting specifications with regard to stormwater issues designed by the engineer, the more stringent requirement shall govern.

3. Maintenance. The contractor shall maintain the sediment and erosion control measures identified on this plan until the site is stabilized. Items in need of repair shall be addressed as soon as practicable. Maintenance items include silt fences, all trench construction entrances, silt fence lines, and vegetation throughout the site. Furthermore, any soil that is transported offsite shall be cleaned up, or as required by the local agency.

4. Inspections. Qualified personnel (provided by the permittee) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 0.25 inches or greater in amount. Inspectors shall make a written record of the inspection and shall provide a copy of the inspection report to the permittee. The permittee shall provide a copy of the inspection report to the permittee. The permittee shall provide a copy of the inspection report to the permittee.

5. Disposal of Non-Storm Water Discharges. The following sources of non-stormwater may be combined with stormwater discharges associated with the industrial activity addressed in this plan:

- Fire fighting activities
- Water main hydrant flushing
- Water for dust control
- Irrigation drainage for vegetation growth
- Wash water where detergents are not used
- Uncontaminated ground water

Non-fire fighting discharges from water mains and pumps shall not be permitted to flow directly into the soil without energy dissipaters sufficient to reduce velocity to a non-erosive rate. All site de-watering, including pump discharge shall pass through sediment control devices before leaving the site.

6. Retention of Records

- The permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at least three years from the date that the permit coverage expires or is terminated. This period may be extended by request of the Agency of the Agency of the Agency.
- The permittee shall retain a copy of the storm water pollution prevention plan required by this permit at the construction site from the date of project initiation to the date of final stabilization.

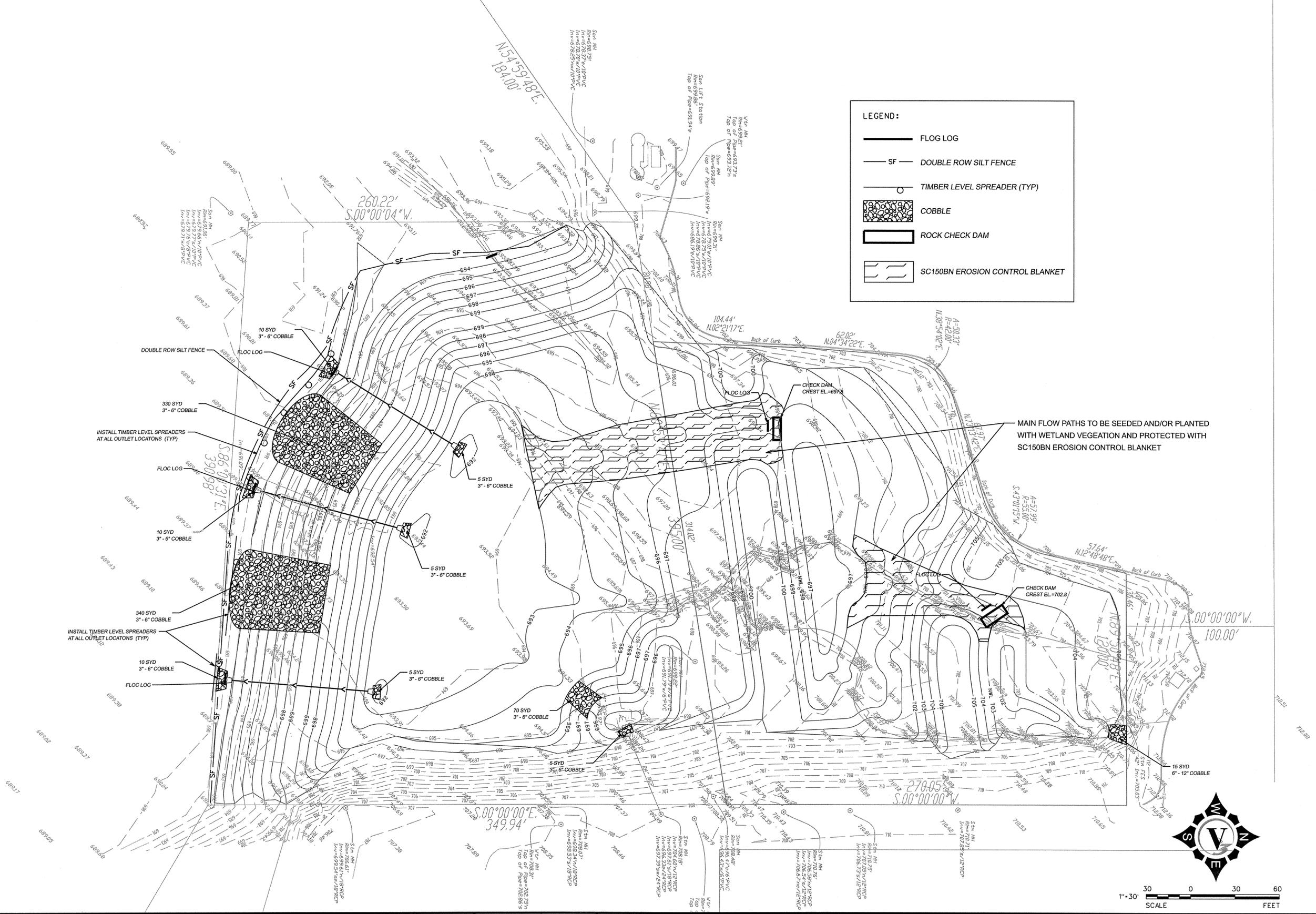
7. Notice of Termination. Upon Final stabilization of the site the permittee shall submit a completed Notice of Termination in accordance with NPDES Permit No. ILR10.

8. Certification Statement. The following statement shall be signed prior to any work authorized by NPDES Permit No. ILR10 is performed at the site. The undersigned is responsible for implementation of all measures identified on this plan.

I certify under penalty of law that I understand the terms and conditions of the general National Pollution Discharge Elimination System (NPDES) permit ILR10 that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Dated this _____ day of _____, 2010

By _____ Title _____
Company _____
Address _____
Telephone _____



LEGEND:

- FLOG LOG
- DOUBLE ROW SILT FENCE
- TIMBER LEVEL SPREADER (TYP)
- COBBLE
- ROCK CHECK DAM
- SC150BN EROSION CONTROL BLANKET

REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

SEAL: _____

PROJECT NO.: 06013
FILE NAME: GRD206013
DATE: 11/11/10
SCALE: 1"=30'

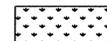
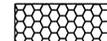
DESIGNED BY: SWA
DRAWN BY: JMD
CHECKED BY: DLM
PROJECT MANAGER: KJ
BATAVIA ILLINOIS

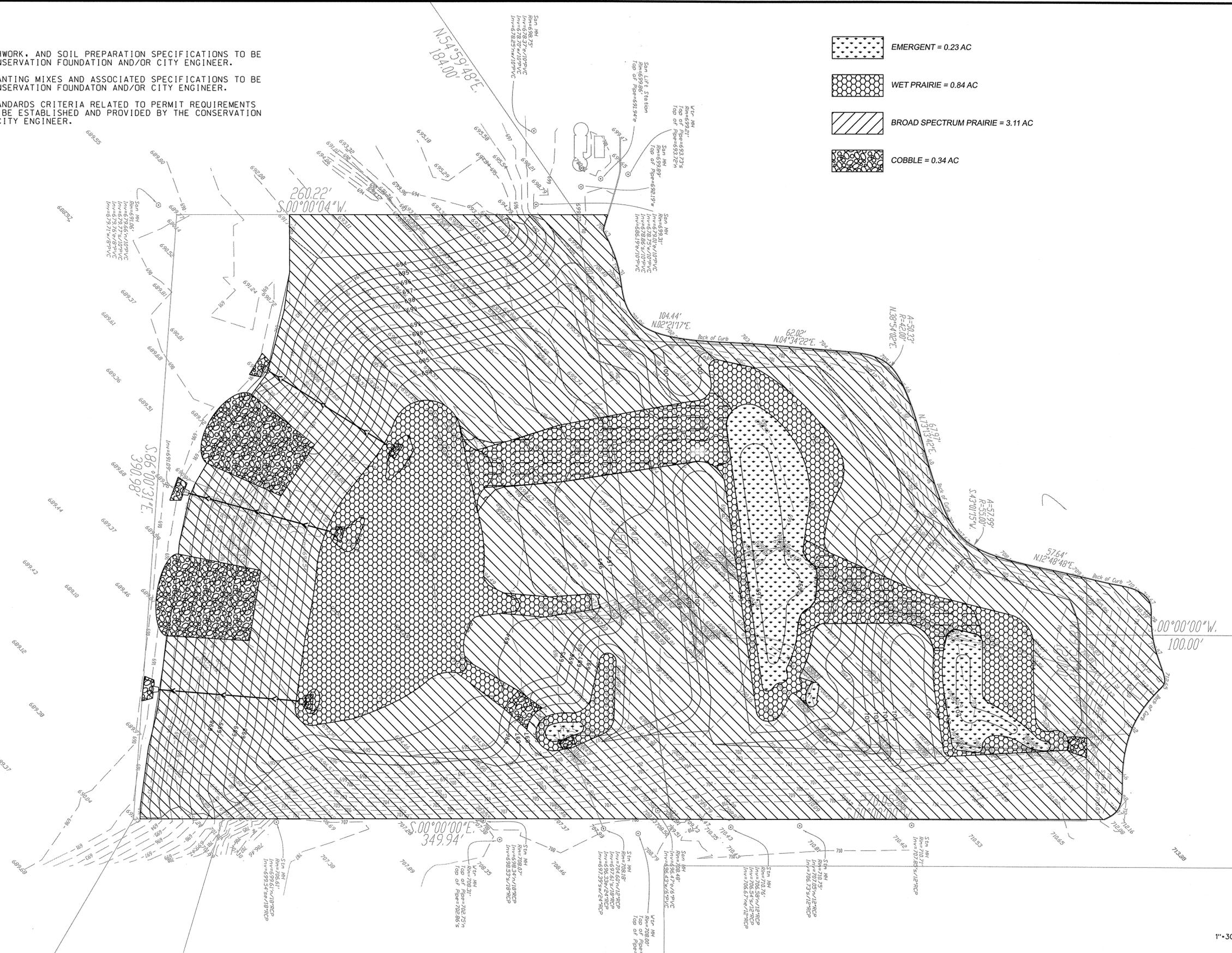
**WINDMILL LAKES UNIT 2
DETENTION BASIN RETROFIT
SITE EROSION AND SEDIMENT CONTROL PLAN**

DRAWING NO. **2.2**

NOTES:

1. ALL CLEARING, EARTHWORK, AND SOIL PREPARATION SPECIFICATIONS TO BE PROVIDED BY THE CONSERVATION FOUNDATION AND/OR CITY ENGINEER.
2. ALL SEEDING AND PLANTING MIXES AND ASSOCIATED SPECIFICATIONS TO BE PROVIDED BY THE CONSERVATION FOUNDATION AND/OR CITY ENGINEER.
3. ALL PERFORMANCE STANDARDS CRITERIA RELATED TO PERMIT REQUIREMENTS OR OTHERWISE SHALL BE ESTABLISHED AND PROVIDED BY THE CONSERVATION FOUNDATION AND/OR CITY ENGINEER.

-  EMERGENT = 0.23 AC
-  WET PRAIRIE = 0.84 AC
-  BROAD SPECTRUM PRAIRIE = 3.11 AC
-  COBBLE = 0.34 AC



1"=30'
SCALE
30 0 30 60
FEET

V3
V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

REVISIONS			
NO.	DATE	DESCRIPTION	

SEAL:

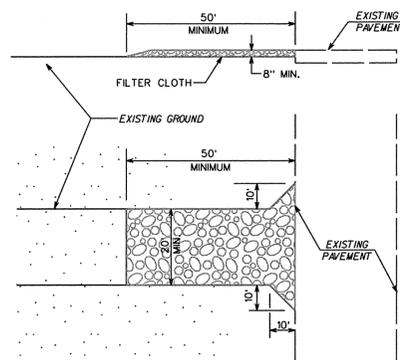
PROJECT NO.: 06013
DESIGNED BY: KDJ
FILE NAME: PLANT_06013
DRAWN BY: JMD
DATE: 11/11/10
CHECKED BY: DLM
SCALE: 1"=30'
PROJECT MANAGER: KJ

**WINDMILL LAKES UNIT 2
DETENTION BASIN RETROFIT**

BATAVIA ILLINOIS

PLANTING PLAN

DRAWING NO. **3.1**

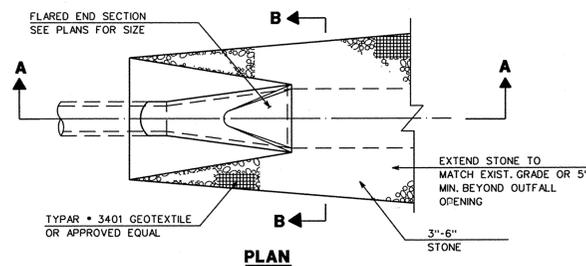


CONSTRUCTION ENTRANCE SPECIFICATIONS

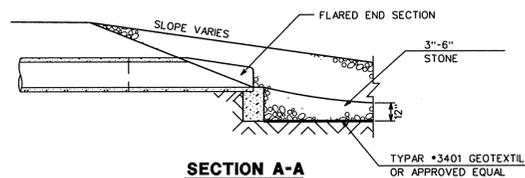
1. **STONE SIZE** - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. **THICKNESS** - NOT LESS THAN EIGHT (8) INCHES.
3. **FILTER CLOTH** - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. **MAINTENANCE** - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAYS MUST BE REMOVED IMMEDIATELY.
5. **WASHING** - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

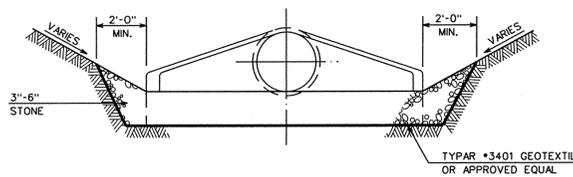
(TEMPORARY)
LOCATION TO BE DETERMINED BY CITY



PLAN

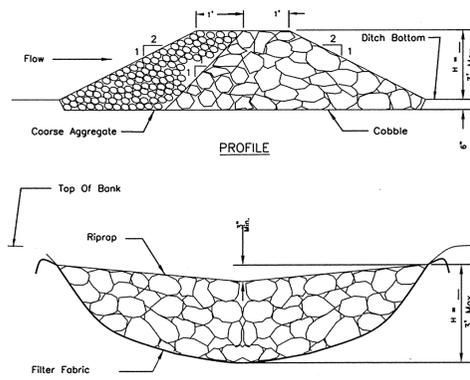


SECTION A-A



SECTION B-B

EROSION CONTROL FOR FLARED END SECTION DETAIL

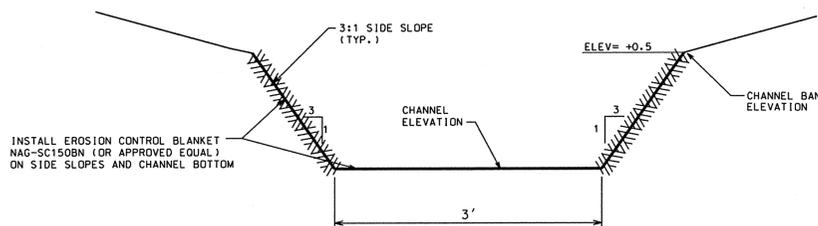


CROSS SECTION CENTERLINE LOOKING DOWNSTREAM

NOTES:

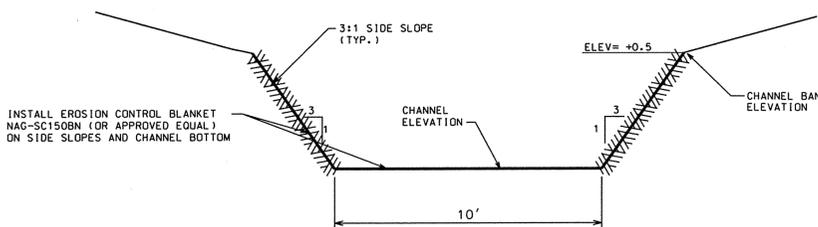
1. Filter fabric shall meet the requirements of Article 1080.03 of the IDOT Standard Specifications and shall be placed over the cleared area prior to the placement of rock check dam.
2. Coarse aggregate shall meet one of the following IDOT gradations, CA-1, CA-2, CA-3, or CA-4.
3. Cobble shall meet IDOT gradation RR-3 or RR-4 and meet Quality Designation A.
4. Coarse aggregate and riprap shall be placed according to Article 281.04 (c) of the IDOT Standard Specifications.
5. For added stability, the base of the dam shall be keyed 6 inches into the soil.
6. See plans for spacing of dams and H dimensions.
7. All permanent stone material shall be natural in appearance. White washed bedding material will not be permitted.

ROCK CHECK DAM



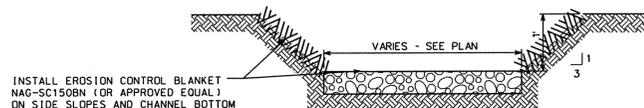
TYPICAL CHANNEL SECTION 'A'

N.T.S.



TYPICAL CHANNEL SECTION 'B'

N.T.S.

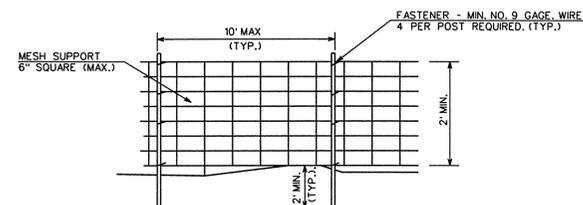


NOTES:

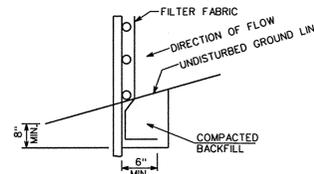
1. PLACE FILTER FABRIC UNDER COBBLE IN ACCORDANCE WITH SECTION 282 AND ARTICLE 1080.03 OF THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
2. COBBLE AT THE SPECIFIED GRADATION SHALL MEET THE REQUIREMENTS OF SECTIONS 281 AND 1005 OF THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2002.
3. IF COBBLE IS UNAVAILABLE, RIPRAP MAY BE SUBSTITUTED UPON APPROVAL OF THE THE CONSERVATION FOUNDATION AND/OR THE CITY.

TYPICAL OVERFLOW SECTION 'X'

N.T.S.



ELEVATION

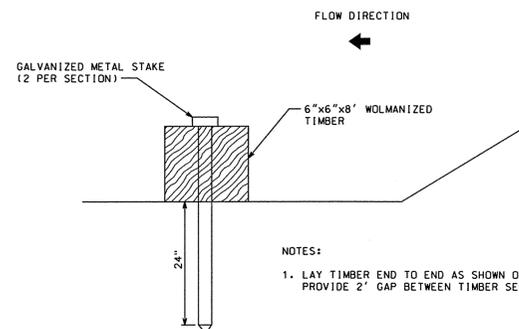


FABRIC ANCHOR DETAIL

NOTES:

1. TOP AND BOTTOM WIRES OF MESH SUPPORT SHALL BE MIN. GAGE. NO. 9.
2. INTERMEDIATE WIRES OF MESH SUPPORTS SHALL BE MIN. GAGE. NO. 11.
3. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING.
4. FILTER FABRIC SHALL MEET REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS T WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
5. FENCE POST SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM SECTIONAL AREA 3.0 SQ. IN.
6. THE MESH SUPPORT MAY BE OMITTED IF A MAXIMUM OF 5' IS USED FOR POST POST SPACING.

SILT FENCE PLAN

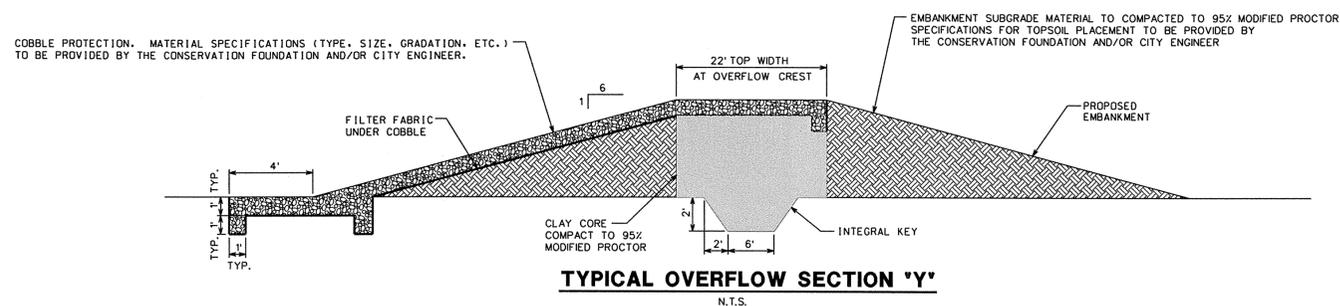


NOTES:

1. LAY TIMBER END TO END AS SHOWN ON PLAN. PROVIDE 2' GAP BETWEEN TIMBER SECTIONS.

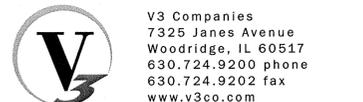
TIMBER LEVEL SPREADER

N.T.S.



TYPICAL OVERFLOW SECTION 'Y'

N.T.S.



REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

SEAL:

PROJECT NO.:	06013	DESIGNED BY:	SWA
FILE NAME:	DET06013	DRAWN BY:	GAW
DATE:	11/11/10	CHECKED BY:	DLM
SCALE:	NONE	PROJECT MANAGER:	KJ

WINDMILL LAKES UNIT 2 DETENTION BASIN RETROFIT

BATAVIA

ILLINOIS

CONSTRUCTION DETAILS

DRAWING NO.

4.1