

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota

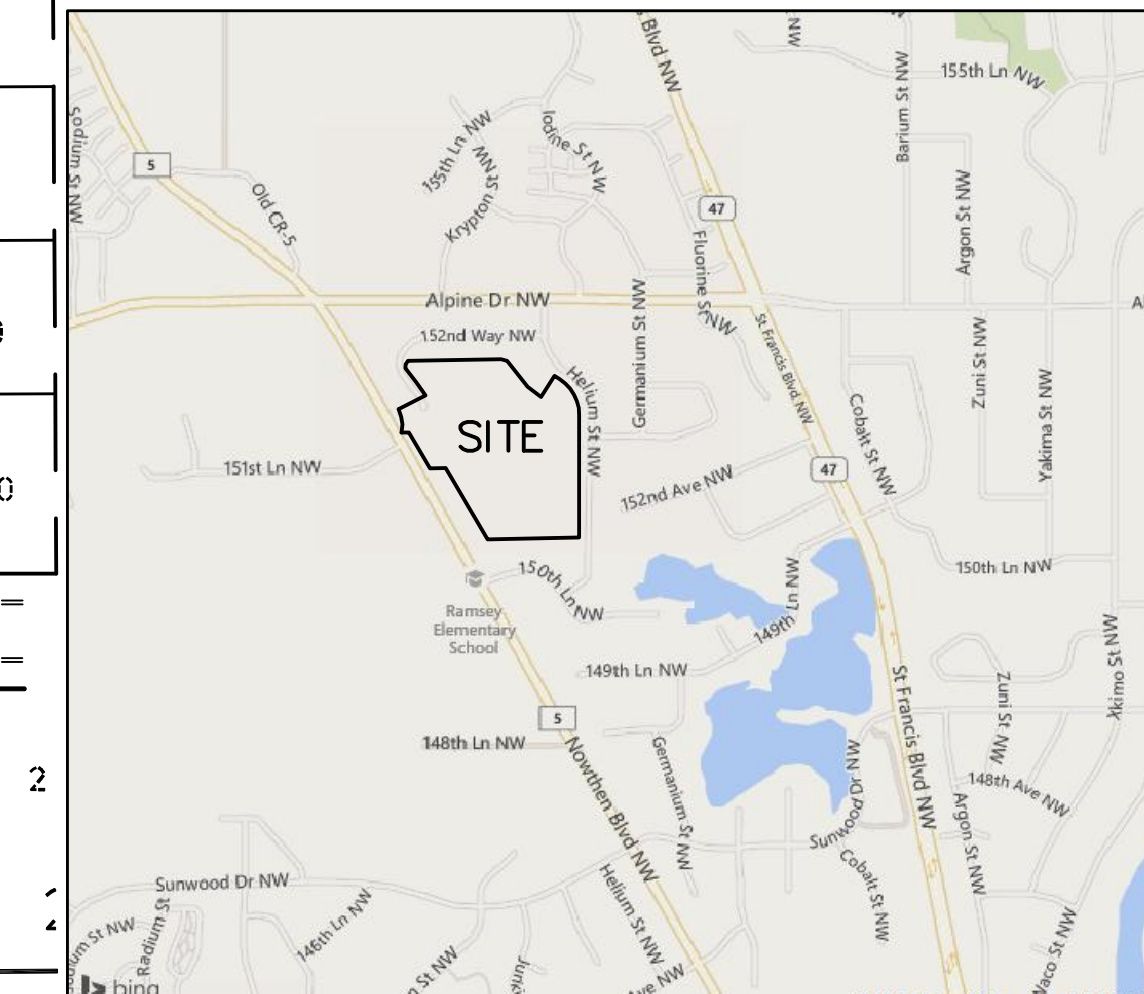
PROJECT NUMBER		141029
BY	DATE	
REVISIONS	REMARKS	

SITE DATA:

	SQ. FT. ±	ACRES ±
Total Site Area	= 927,015	21.281
Right-of-Way Area	= 59,135	1.358
Net Area	= 867,880	19.924
Total Number of Lots	= 44	
Total No. Units	= 44	
Net Density	= 2.2 U/A	
Impervious Surface	= 244,810	5.620

ZONING REGULATIONS:

Current zoning	= Public/Quasi-Public District
Proposed zoning	= R1 Residential (MUSA)
Front Yard	= 30 ft.
Rear Yard	= 30 ft.
Side Interior	= 6 ft.
Living Space	= 10 ft.
Garage	= 6 ft.
Side Corner	= 30 ft.
Minimum Lot Width At Setback	= 80 ft.
Corner lot	= 90 ft.
Minimum Lot Area	= 10,800 Sf.



LOCATION MAP

No Scale

INDEX:

PRE PLAT:

- C-1) COVERSHEET/SITE PLAN
- C-2) PRELIMINARY PLAT
- C-3) UTILITY PLAN
- C-4) LANDSCAPE PLAN
- C-5) TREE PRESERVATION PLAN

GRADING AND EROSION:

- CG-1) GRADING PLAN
- CE-1) EROSION CONTROL
- CE-2) EROSION CONTROL DETAILS

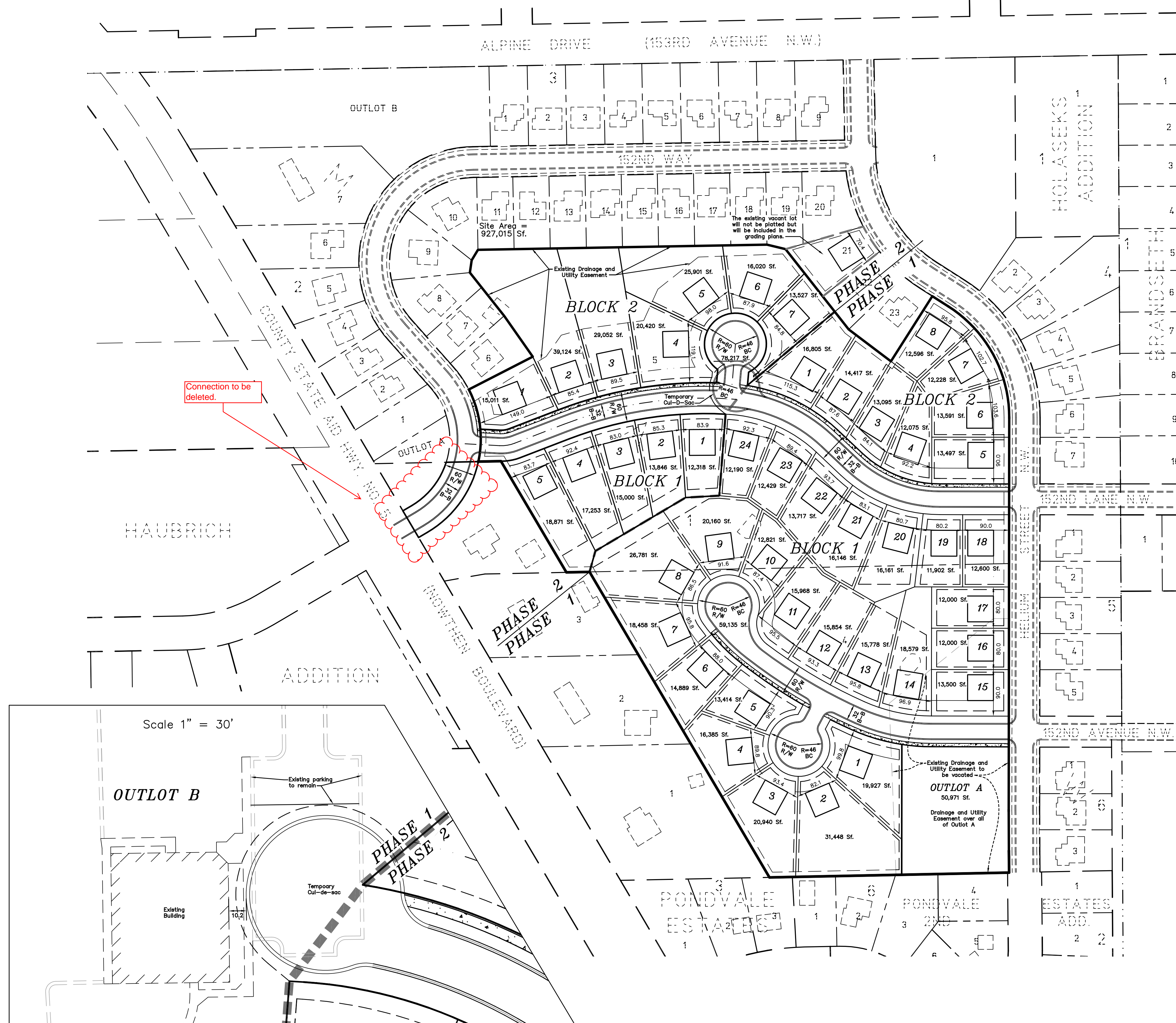
CERTIFICATION:
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.
Date: _____
M.N. LIC. NO. 19576
Randall C. Hedlund

HEDLUND
ENGINEERING SURVEYING
PLANNING
2005 Pin Oak Drive
Eagan, MN 55122
Phone: (651) 405-6600
Fax: (651) 405-6606

PREPARED BY:

**HARVEST STATES
COVERSHEET/SITE PLAN**
PREPARED FOR:
NIK MANAGEMENT INC.
11736 47TH ST. W.
Lakeville, MN 55044
Phone: (952) 236-9424

DRAWN	CHECKED	DESIGN
SHEET NUMBER		
C-1		
DATE	3/5/2015	
REV.	00/00/00	

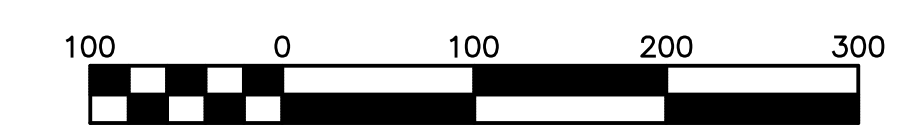


Connection to be deleted.

Scale 1" = 30'

OUTLOT B

**PRELIMINARY
NOT FOR CONSTRUCTION**



Scale 1" = 100'

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 Date: Mar 05 2015 7:38am
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 X-Ref Dwg: 141029\base.dwg
 X-Ref Dwg: 141029\topo.dwg

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota

LEGAL DESCRIPTION:

Lots 4 and 5, MEADOW, City of Ramsey, Anoka County, Minnesota.

PROJECT NUMBER
141029

REVISIONS	DATE	BY

CERTIFICATION:
I hereby certify that this survey, plan, report, or description was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Jeffrey D. Lindgren
Date: _____
M.N. LIC. NO. 14376

PREPARED BY:
HEDLUND SURVEYING
ENGINEERING
PLANNING
2005 Pin Oak Drive
Eagan, MN 55122
Phone: (651) 405-6600
Fax: (651) 405-6606

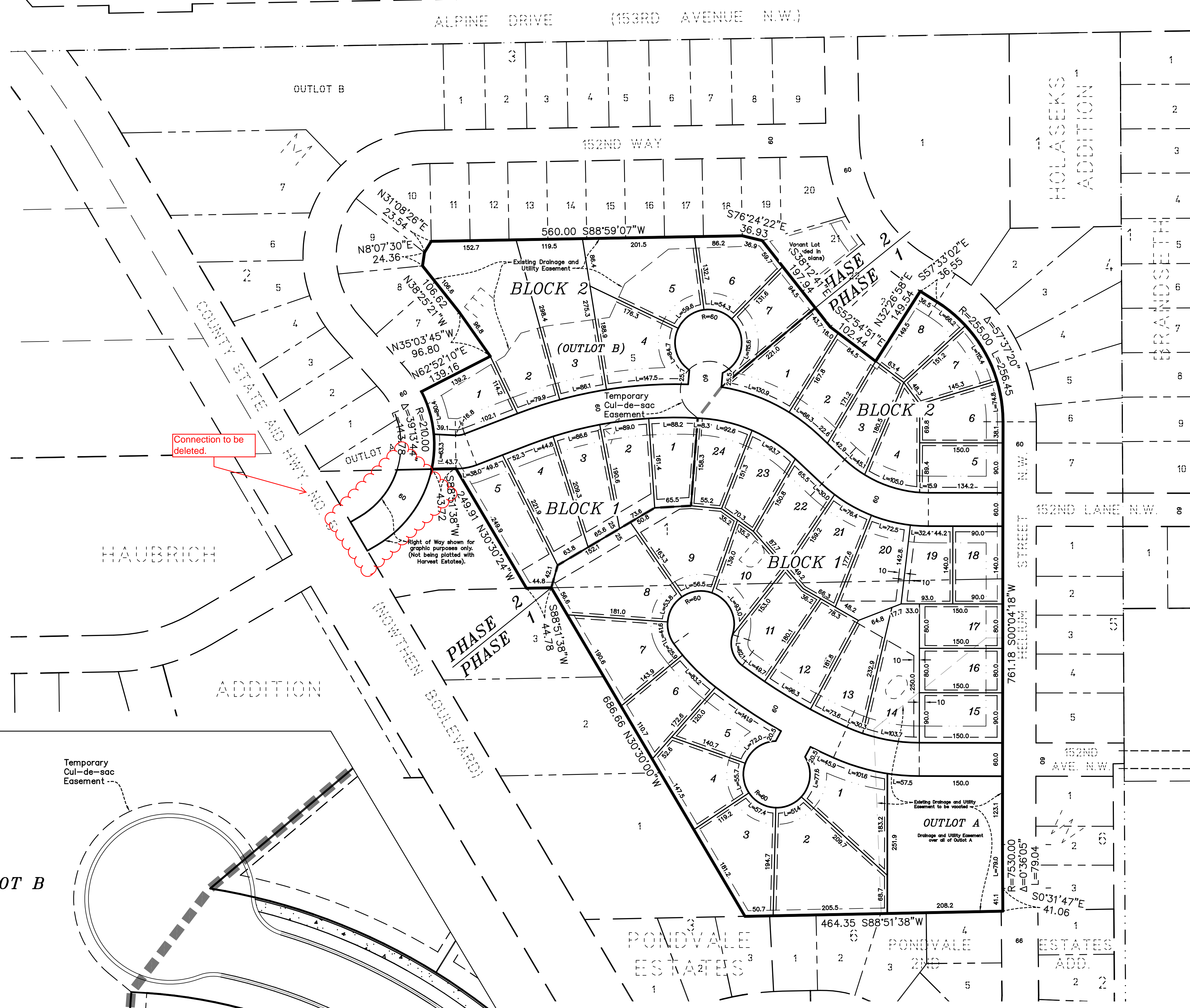
SHEET TITLE:
HARVEST STATES PRELIMINARY PLAT

PREPARED FOR:
NIK MANAGEMENT INC.
11736 177TH ST. W.
Lakeville, MN 55044
Phone: (952) 236-9424

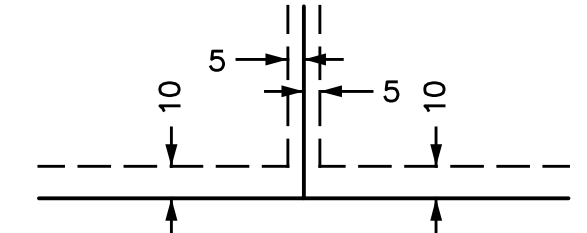
DRAWN	CHECKED	DESIGN

SHEET NUMBER
C-2

DATE: 3/5/2015
REV: 00/00/00



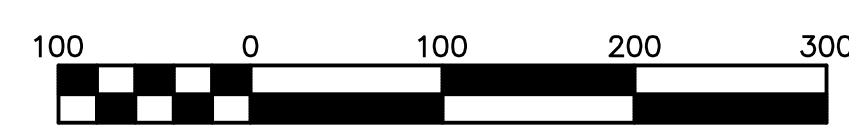
Drainage and Utility Easements are shown thus:



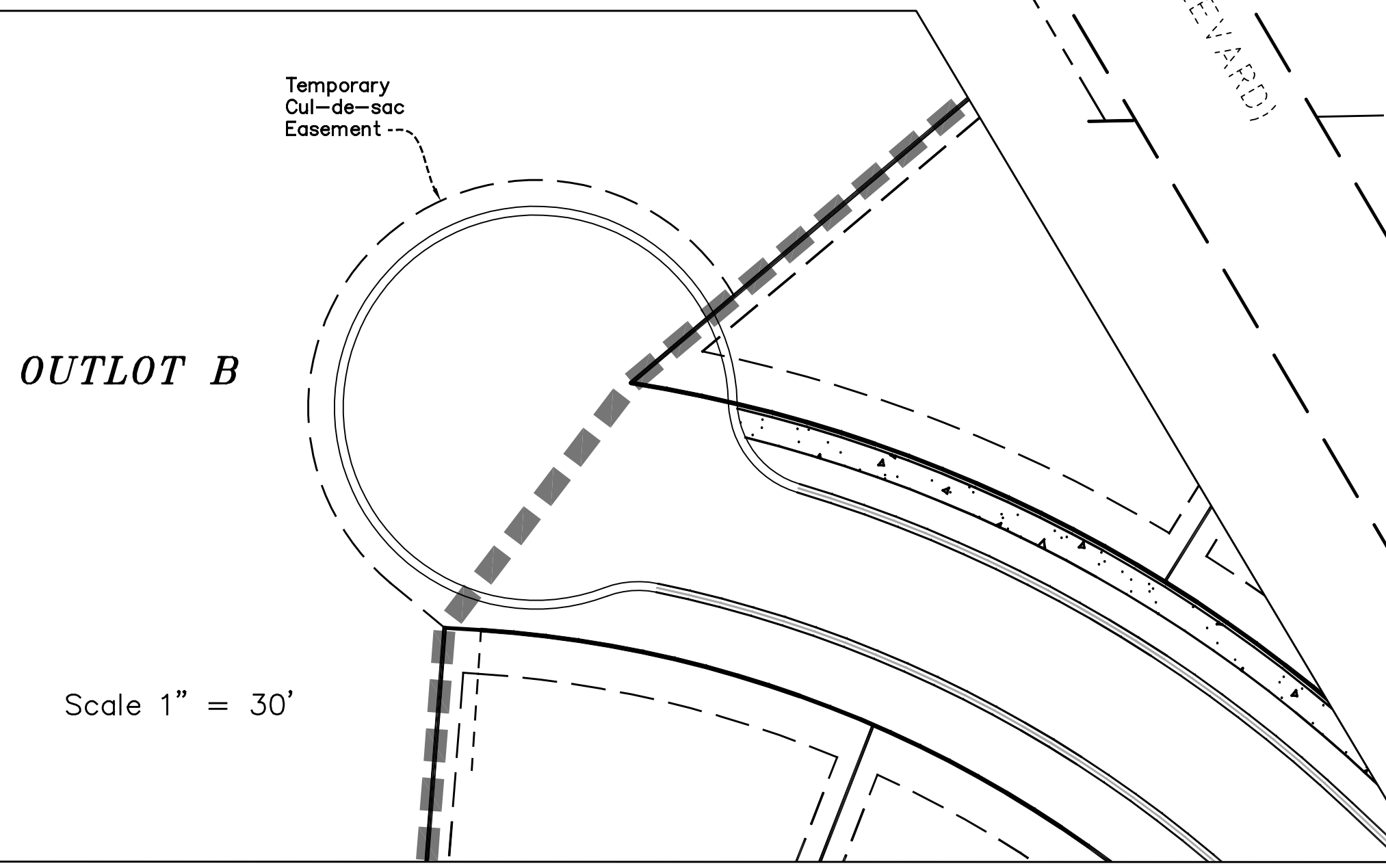
Being 5 feet in width and adjoining lot lines, unless otherwise shown, and 10 feet in width and adjoining street lines as shown on the plat.

Bearings shown are based upon an assumed datum.

PRELIMINARY
NOT FOR CONSTRUCTION



Scale 1" = 100'



Scale 1" = 30'

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 Date: Mar 04 2015 4:16pm
 X-Ref Dwg: 141029base.dwg

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota

PROJECT NUMBER	141029
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LEGEND:

- SS — SS — EXISTING SANITARY SEWER
- WM — WM — EXISTING WATERMAIN
- ST — ST — EXISTING STORM SEWER
- x — x — EXISTING FENCE
- ← — ← — PROPOSED SANITARY SEWER
- | — | — PROPOSED WATERMAIN
- << — << — PROPOSED STORM SEWER

GENERAL CONSTRUCTION NOTES:

- Existing Utility Locations As-Per As-Built Plans Provided By the Engineering and Hedlund
- All Existing Utilities or Improvements, Including Walks, Curbs, Pavement and Parkways Damaged or Removed During Construction Shall be Promptly Restored to Their Respective Original Condition.
- The Contractor Shall Notify all Utility Companies Prior to Construction to Verify in the Field all Existing and Underground Utilities Adjacent to the Project, and be Responsible for Protection of the same.
- For on Site Location of all Underground Utilities Call Gopher State One Call System (651)454-0002
- The Contractor Shall Beware of Potential Conflicts with Existing Utilities as Indicated on the Plans. The Contractor Shall Excavate Around Utilities to Determine Elev. Before Beginning Construction.
- The Contractor Shall Be Responsible To Lower Watermain During Install. Where Necessary To Avoid Service Conflicts.

CERTIFICATION: I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Date: _____
M.N. LIC. NO. 19576

Randall C. Hedlund

HEDLUND
ENGINEERING SURVEYING
PLANNING
2005 Pin Oak Drive
Eagan, MN 55122
Phone: (651) 405-6600
Fax: (651) 405-6606

SHEET TITLE: **HARVEST ESTATES UTILITY PLAN**

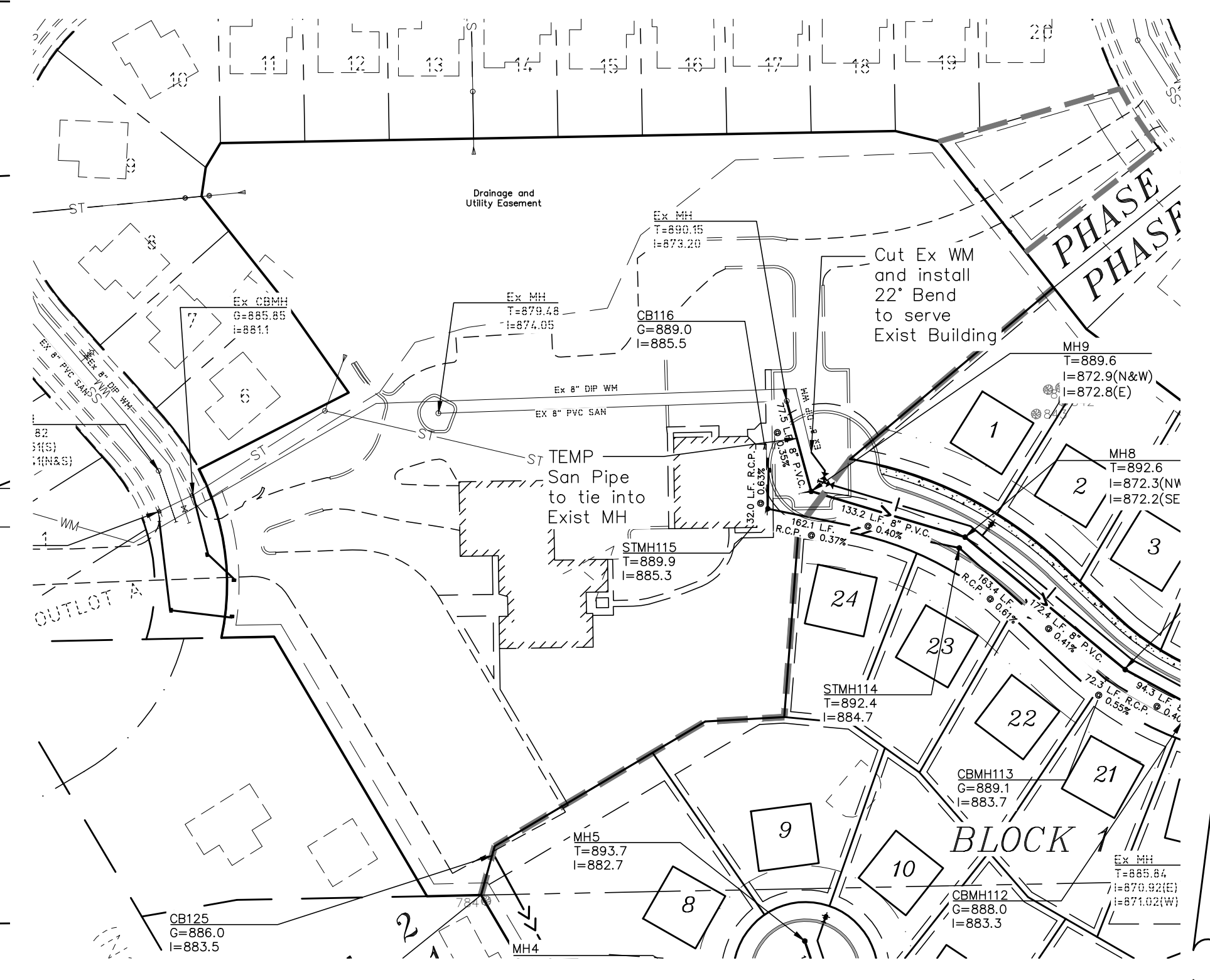
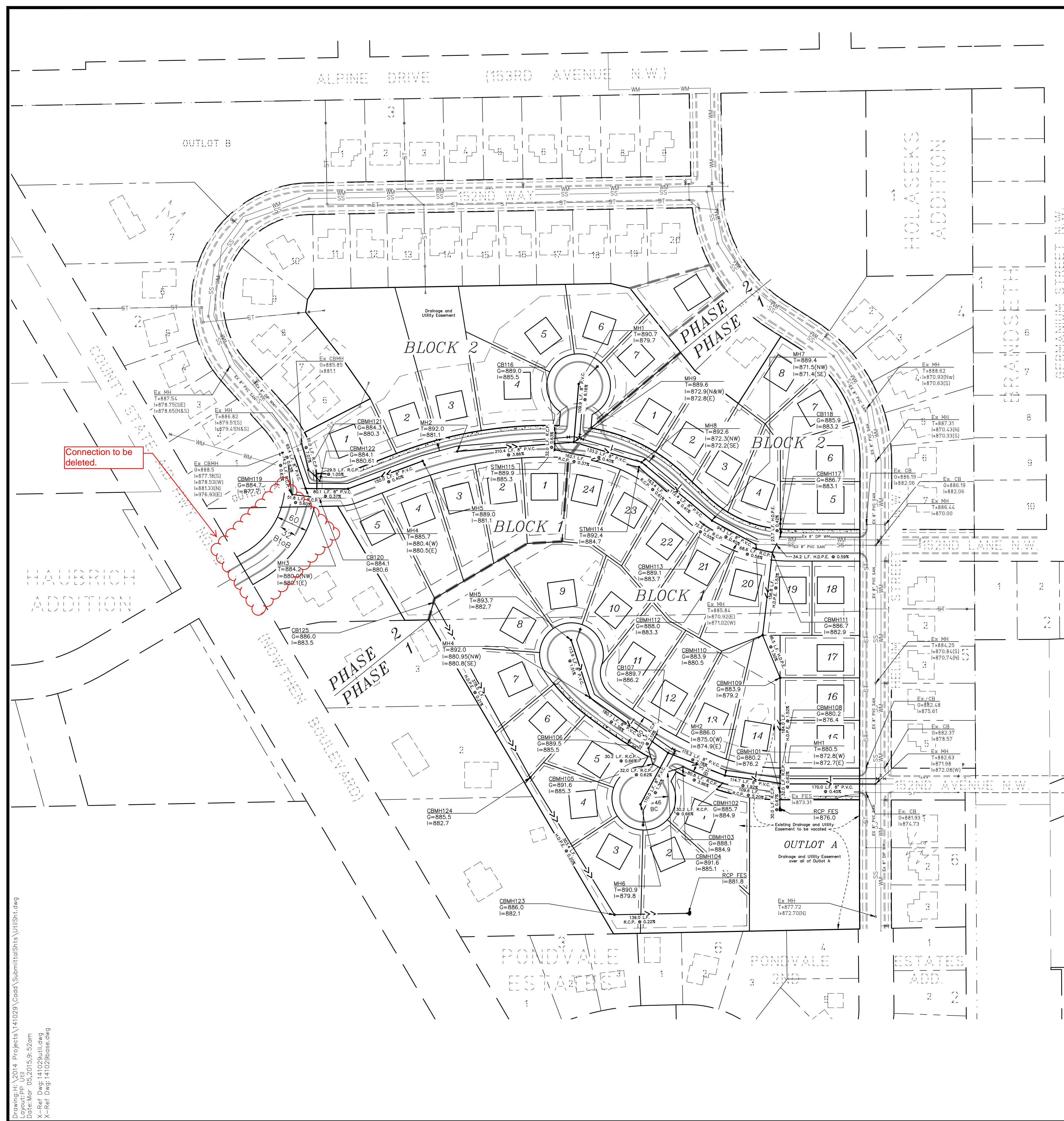
PREPARED FOR: **NIK MANAGEMENT INC.**
11736 177TH St. W.
Lakeville, MN 55044
Phone: (952) 236-9424

DATE: 3/5/2015

REVISIONS: _____

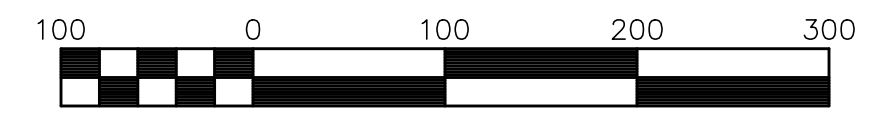
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SHEET NUMBER: **C-3**



PHASE 1 DETAIL

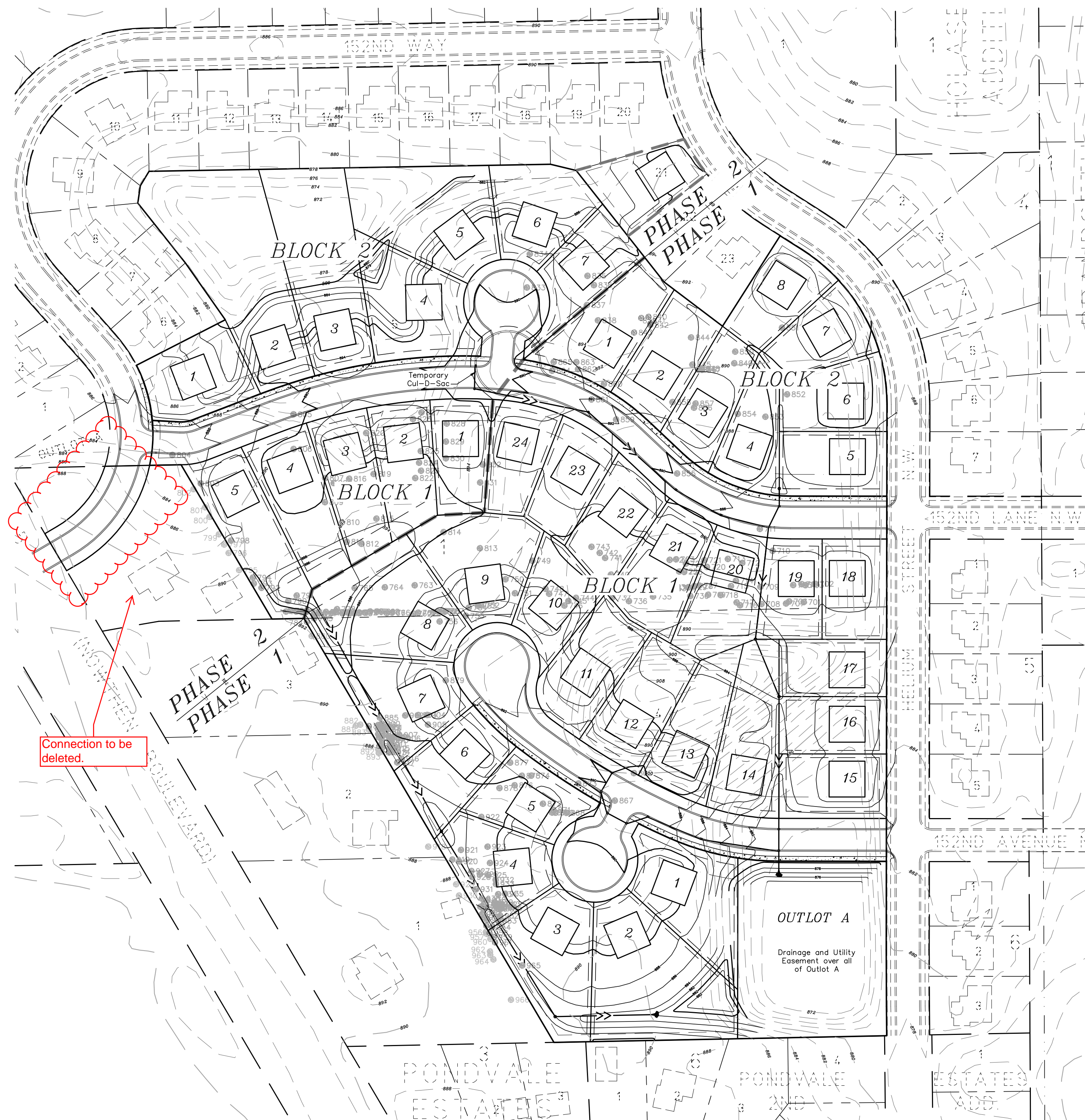
PRELIMINARY
NOT FOR CONSTRUCTION



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X-Ref: Dwg: 141029\01.dwg
X-Ref: Dwg: 141029\02.dwg

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota



Trees Saved					Trees Lost				
Tree #	Species	DBH	Condition	Stems	Tree #	Species	DBH	Condition	Stems
810	Juniper	6.0	Good	1	814	Maple, silver	13.0	Good	1
811	Juniper	7.0	Good	1	815	Spruce, blue	12.0	Good	1
812	Juniper	7.0	Good	1	816	Ash, green	10.5	Good	1
884	Spruce, white	7.0	Fair	1	817	Ash, green	8.0	Good	1
880	Pine, red	10.0	Good	1	818	Ash, green	10.0	Fair	1
955	Pine, red	11.5	Good	1	819	Ash, green	10.0	Good	1
958	Pine, red	6.0	Good	1	820	Crabapple	8.0	Good	1
959	Pine, red	7.0	Good	1	821	Hackberry	9.0	Good	1
961	Pine, red	13.0	Good	1	822	Pine, Scots	14.0	Good	1
702	Pine, red	7.0	Good	1	823	Pine, Scots	16.0	Good	1
703	Pine, red	7.5	Good	1	824	Pine, Scots	16.5	Good	1
704	Pine, red	7.0	Good	1	825	Ash, green	12.0	Good	1
705	Pine, red	10.0	Good	1	826	Maple, Norway	10.5	Good	1
706	Juniper	5.0	Good	1	827	Maple, Norway	9.5	Good	1
709	Pine, red	7.5	Good	1	828	Ash, green	11.0	Good	1
710	Juniper	15.0	Good	1	829	Maple, silver	18.0	Fair	2
711	Juniper	14.0	Good	1	830	Birch, paper	15.0	Good	3
713	Juniper	12.0	Good	1	831	Juniper	9.0	Good	1
715	Pine, red	6.5	Good	1	816	Juniper	17.0	Fair	5
727	Pine, red	7.0	Good	1	847	Juniper	7.0	Good	1
728	Pine, red	4.5	Good	1	848	Juniper	11.0	Fair	1
729	Pine, red	7.5	Good	1	849	Juniper	7.0	Good	1
730	Pine, white	10.5	Good	1	851	Juniper	5.5	Good	1
731	Pine, red	7.0	Fair	1	855	Juniper	6.0	Good	1
732	Pine, red	6.0	Good	1	865	Juniper	13.0	Fair	1
733	Pine, red	6.5	Good	1	866	Pine, red	9.5	Good	1
734	Pine, red	8.0	Good	1	867	Pine, red	8.0	Good	1
736	Spruce, white	4.0	Good	1	868	Pine, red	8.5	Fair	1
738	Pine, red	10.0	Fair	1	869	Pine, red	10.0	Good	1
739	Pine, red	8.0	Good	1	894	Pine, red	6.0	Good	1
748	Pine, red	9.0	Good	1	895	Pine, red	7.0	Good	1
750	Juniper	7.5	Good	1	896	Pine, red	6.0	Good	1
751	Juniper	8.0	Good	1	897	Pine, red	6.0	Good	1
752	Pine, Scots	7.5	Good	1	898	Pine, red	7.0	Good	1
753	Pine, Scots	8.0	Good	1	899	Pine, red	7.5	Good	1
754	Pine, Scots	7.0	Good	1	900	Pine, red	8.0	Good	1
757	Pine, Scots	9.5	Good	1	901	Pine, red	9.5	Good	1
758	Pine, Scots	7.0	Good	1	908	Pine, red	7.0	Fair	1
759	Pine, Scots	13.0	Fair	1	909	Pine, red	7.0	Good	1
760	Pine, Scots	8.5	Good	1	910	Pine, red	5.0	Fair	1
761	Pine, Scots	4.0	Fair	1	911	Pine, red	6.5	Good	1
762	Spruce, blue	5.5	Good	1	912	Pine, red	7.0	Good	1
763	Ash, green	8.5	Good	1	913	Pine, red	10.5	Good	1
764	Maple, silver	16.5	Good	1	914	Pine, red	10.0	Good	1
765	Ash, green	9.5	Good	1	915	Pine, red	8.0	Good	1
766	Spruce, blue	4.0	Fair	1	924	Pine, red	13.1	Good	1
767	Spruce, blue	4.5	Good	1	925	Pine, red	12.5	Good	1
768	Spruce, blue	5.5	Good	1	926	Pine, red	10.5	Good	1
769	Spruce, blue	7.5	Good	1	927	Pine, red	14.0	Good	1
770	Spruce, blue	8.0	Good	1	928	Pine, red	12.5	Good	1
771	Spruce, blue	5.0	Good	1	931	Pine, red	13.0	Good	1
772	Spruce, blue	6.0	Good	1	932	Pine, red	12.5	Good	1
773	Spruce, blue	7.0	Fair	2	933	Pine, red	11.5	Good	1
775	Spruce, blue	4.5	Fair	1	934	Pine, red	10.5	Good	1
776	Spruce, blue	6.0	Good	1	935	Pine, red	12.0	Good	1
777	Spruce, blue	7.0	Good	1	936	Pine, red	10.5	Good	1
778	Spruce, blue	5.0	Good	1	937	Pine, red	9.5	Good	1
779	Pine, Scots	9.0	Good	1	938	Pine, red	9.5	Good	1
780	Spruce, blue	4.0	Fair	1	939	Pine, red	14.0	Fair	2
781	Spruce, white	5.0	Good	1	940	Pine, red	6.5	Fair	1
782	Spruce, white	4.5	Good	1	941	Pine, red	8.0	Good	1
786	Spruce, white	5.0	Good	1	942	Pine, red	5.5	Good	1
787	Spruce, white	5.0	Good	1	943	Pine, red	8.5	Good	1
788	Spruce, white	7.0	Good	1	944	Pine, red	6.5	Good	1
789	Spruce, white	5.0	Good	1	945	Pine, red	12.0	Good	1
790	Oak, red	7.5	Good	1	946	Pine, red	9.0	Good	1
791	Ash, green	10.0	Good	1	947	Pine, red	8.0	Fair	1
792	Basswood	13.1	Fair	2	948	Pine, red	9.0	Good	1
793	Basswood	9.0	Good	1	949	Pine, red	9.5	Good	1
794	Basswood	8.0	Good	1	950	Pine, red	10.0	Good	1
798	Maple, sugar	8.0	Good	1	951	Pine, red	11.5	Good	1
803	Maple, Norway	8.5	Good	1	952	Pine, red	10.0	Good	1
804	Maple, silver	28.0	Fair	4	953	Pine, red	10.5	Good	1
805	Honeylocust	11.5	Good	1	954	Pine, red	17.0	Fair	2
806	Spruce, white	13.0	Good	1	955	Pine, red	7.0	Good	1
807	Basswood	10.0	Good	1					
808	Ash, green	11.5	Good	1					
809	Ash, green	11.5	Good	1					
810	Ash, green	12.0	Good	1					
811	Maple, sugar	11.5	Fair	1					
812	Hackberry	8.0	Good	1					
813	Ash, green	11.5	Good	1					

Trees Removed from Inventory (Not on property)									
Tree #	Species	DBH	Condition	Stems	Tree #	Species	DBH	Condition	Stems
735	Maple, silver	27.0	Fair	1	832	Pine, red	12.5	Good	1
736	Maple, silver	18.0	Fair	2	833	Pine, red	6.0	Fair	1
737	Maple, silver	9.5	Good	1	918	Elm Siber	21.0	Fair	1
739	Maple, silver	26.0	Fair	4	929	Elm Siber	10.0	Fair	1
800	Maple, silver	30.0	Fair	4	930	Elm Siber	22.0	Fair	1
801	Maple, silver	31.0	Fair	3	956	Pine, red	6.5	Good	1
802	Maple, silver	15.0	Fair	1	957	Pine, red	7.5	Good	1
880	Elm Siberian	30.0	Fair	1	960	Pine, red	5.5	Good	1
881	Spruce, white	7.0	Fair	1	962	Pine, red	8.5	Good	1
882	Spruce, white	11.0	Good	1	963	Pine, red	4.0	Good	1
883	Elm Siberian	9.5	Fair	1	964	Pine, red	10.0	Good	1
881	Pine, red	10.0	Good	1	966	Pine, red	5.5	Good	1

Siberian Elms (Not included in calculations)					Siberian Elms (Not included in calculations)				
Tree #	Species	DBH	Condition	Stems	Tree #	Species	DBH	Condition	Stems
784	Elm Siberian	16.0	Fair	2	850	Elm Siberian	11.0	Fair	1
839	Elm Siberian	21.0	Fair	1	852	Elm Siberian	9.0	Good	1
843	Elm Siberian	25.0	Fair	1	853	Elm Siberian	14.0	Fair	1
701	Elm Siberian	27.0	Fair	1	854	Elm Siberian	14.0	Good	1
705	Elm Siberian	12.5	Fair	1	856	Elm Siberian	9.0	Good	1
707	Elm Siberian	8.5	Fair	1	857	Elm Siberian	13.0	Good	1
716	Elm Siberian	17.0	Good	1	858	Elm Siberian	14.0	Fair	1
717	Elm Siberian	12.0	Fair	1	859	Elm Siberian	8.0	Good	1
718	Elm Siberian	14.0	Good	1	860	Elm Siberian	12.0	Fair	2
719	Elm Siberian	19.0	Good	1	861	Elm Siberian	9.0	Fair	1
720	Elm Siberian	11.5	Fair	1	862	Elm Siberian	10.0	Fair	1
721	Elm Siberian	12.0	Fair	1	863	Elm Siberian	8.0	Fair	1
722	Elm Siberian	12.0	Fair	1	864	Elm Siberian	9.0	Fair	1
723	Elm Siberian	12.0	Fair	1	866	Elm Siberian	16.0	Fair	2
724	Elm Siberian	15.0	Fair	1	867	Elm Siberian	15.0	Fair	4
725	Elm Siberian	15.0	Fair	1	868	Elm Siberian	15.0	Fair	4
726	Elm Siberian	10.0	Fair	1	869	Elm Siberian	10.0	Fair	2
712	Elm Siberian	10.0	Good	1	870	Elm Siberian	13.0	Fair	1
714	Elm Siberian	9.5	Good	1	871	Elm Siberian	9.0	Fair	2
735	Elm Siberian	17.0	Fair	1	872	Elm Siberian	14.0	Fair	1
737	Elm Siberian	20.0	Fair	1	873	Elm Siberian	14.0	Fair	1
740	Elm Siberian	13.5	Fair	1	874	Elm Siberian	9.0	Fair	2
741	Elm Siberian	10.0	Fair	1	875	Elm Siberian	8.0	Fair	2
742	Elm Siberian	8.0	Fair	1	876	Elm Siberian	9.0	Fair	1
743	Elm Siberian	18.0	Fair	1	877	Elm Siberian	20.0	Fair	1
744	Elm Siberian	13.0	Fair	1	878	Elm Siberian	20.0	Fair	1
745	Elm Siberian	16.0	Fair	1	879	Elm Siberian	15.0	Fair	1
746	Elm Siberian	15.0	Fair	1	885	Elm Siberian	9.0	Fair	1
747	Elm Siberian	10.0	Fair	1	902	Elm Siberian	8.0	Fair	1
749	Elm Siberian	16.0	Fair	1	903	Elm Siberian	9.0	Fair	1
755	Elm Siberian	8.0	Good	1	904	Elm Siberian	12.0	Fair	1
756	Elm Siberian	9.0	Fair	1	905	Elm Siberian	9.0	Fair	1
774	Elm Siberian	16.0	Fair	2	906	Elm Siberian	11.0	Fair	1
783	Elm Siberian	20.0	Fair	2	907	Elm Siberian	11.0	Fair	2
785	Elm Siberian	11.0	Fair	2	916	Elm Siberian	17.0	Fair	3
831	Elm Siberian	19.0	Fair	1	917	Elm Siberian	16.0	Fair	1
832	Elm Siberian	34.0	Fair	1	919	Elm Siberian	16.0	Fair	1
833	Elm Siberian	9.5	Fair	1	920	Elm Siberian	10.0	Fair	1
835	Elm Siberian	15.0	Fair	2	921	Elm Siberian	10.0	Fair	1
836	Elm Siberian	8.0	Fair	1	922	Elm Siberian	10.0	Fair	1
837	Elm Siberian	16.0	Fair	1	923	Elm Siberian	12.0	Fair	1
838	Elm Siberian	11.0	Fair	1					
844	Elm Siberian	11.0	Fair	2					

Total DBH= 1434.7
 DBH Saved= 74.5
 DBH Lost= 1360.2
 Allowable Removal=2545 X 60%= 861
 Excess removed= 499
 Required replanting= 499 in. x 1.25 = 624 in. = 250 trees
 @ 2.5 inches - 90 trees (2 per lot required per ordinance) = 160 Trees

PRELIMINARY
NOT FOR CONSTRUCTION



Scale 1" = 100'

REVISIONS	DATE	BY

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Minnesota.

Randall C. Hedlund, Minn. No. 19576

HEDLUND
 PLANNING ENGINEERING SURVEYING
 2005 Pin Oak Drive
 Eagan, MN 55122
 Phone: (651) 405-6600
 Fax: (651) 405-6606

HARVEST ESTATES TREE PRESERVATION PLAN

PREPARED FOR:
NIK MANAGEMENT INC.
 11736 177TH St. W.
 Lakeville, MN 55044
 Phone: (952) 236-9424

DATE	REV.
3/5/2015	00/00/00

Drawing: H:\2014 Projects\141029\Good\Submittal\Trees\TreePresSH.dwg
 Date: Mar 05 2015 10:20am
 X-Ref: Dwg: 141029

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota

PROJECT NUMBER	141029
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Date: _____
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PREPARED BY:

HEDLUND

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SHEET TITLE: **HARVEST ESTATES EROSION PLAN**

PREPARED FOR: **NIK MANAGEMENT INC.**
11736 177TH St. W.
Lakeville, MN 55044
Phone: (952) 236-9424

DATE: 3/5/2015

REV: _____

DRAWN: _____ CHECKED: _____ DESIGN: _____

SHEET NUMBER: **CE-1**

GENERAL EROSION CONTROL NOTES:

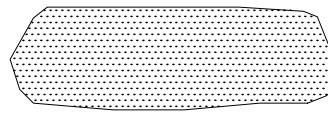
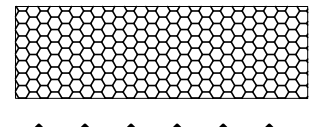



EROSION CONTROL SCHEDULE:

- 1.) INSTALL EROSION CONTROL MEASURES PRIOR TO ANY LAND DISTURBANCE. INSTALL SEDIMENT FILTERS IMMEDIATELY FOLLOWING INSTALLATION OF STRUCTURE.
- 2.) SLOPES MUST BE STABILIZED BY BEING SEEDED AND COVERED WITH AN EROSION CONTROL BLANKET OR MULCHED WITH A TACKIFYING AGENT AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING.
- 3.) ALL EROSION CONTROL INSTALLATIONS SHALL REMAIN IN PLACE AND BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR/PERMITEE UNTIL THE SITE HAS BEEN RE-VEGETATED, AT WHICH TIME THEY SHALL BE REMOVED. FOR PROPOSED PAVED SURFACE AREA, THE CONTRACTOR MAY REMOVE NECESSARY SILT FENCING TO CONSTRUCT ROADWAY WHILE MAINTAINING ADEQUATE EROSION CONTROL IN ADJACENT AREAS.
- 4.) SUFFICIENT TOPSOIL SHALL BE STOCKPILED TO ALLOW FOR THE REPLACEMENT OF A MINIMUM OF 4" OF TOPSOIL FOR DISTURBED AREAS THAT ARE TO BE REVEGETATED.
- 5.) THE CONTRACTOR/PERMITEE SHALL SCHEDULE SITE GRADING, UTILITY INSTALLATION AND ROADWAY CONSTRUCTION SO THAT THE GENERAL SITE CAN BE MULCHED AND RE-SEEDED SOON AFTER DISTURBANCE. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED WITHIN 14 DAYS AFTER COMPLETION OF FINAL GRADING OR AFTER 14 DAYS OF GRADING INACTIVITY. ALL MULCH MATERIAL SHALL BE DISCED INTO THE SOIL IN DIRECTION PERPENDICULAR TO THE STORMWATER FLOW OVER SUCH AREAS.
- 6.) REVEGETATE WITH MNDOT MIX 50B OR 60B AT 75 LBS/ACRE WITH TYPE 1 MULCH AT 2000 LBS/ACRE.

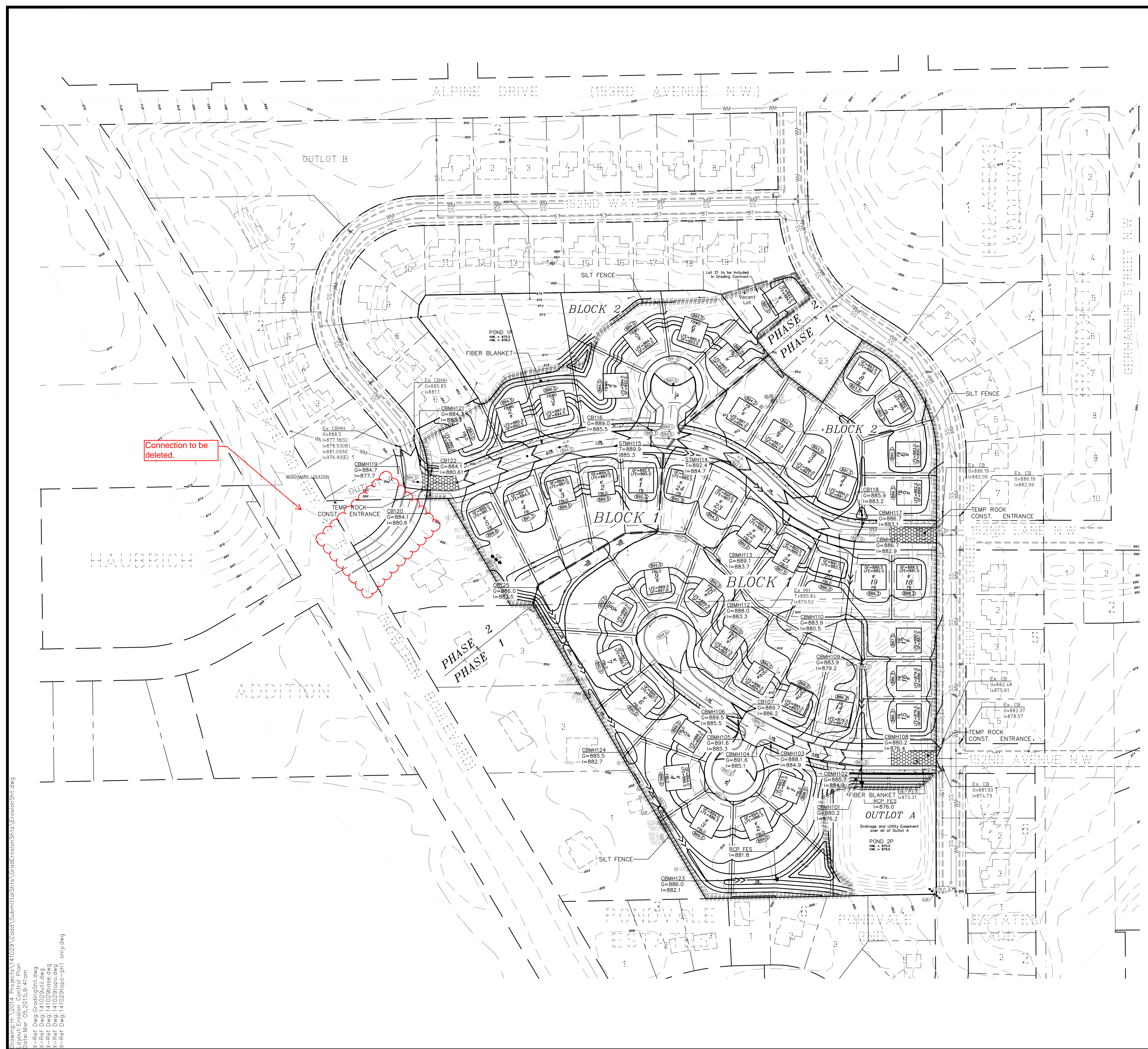
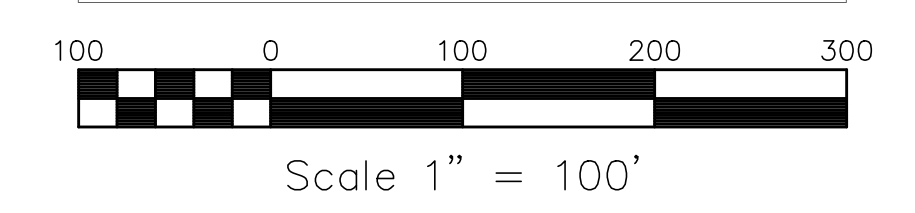
EROSION CONTROL MAINTENANCE PROGRAM:

- 1.) INSPECT CONSTRUCTION SITE ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF MORE THAN 1/4 INCHES IN 24 HOUR PERIOD.
- 2.) SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 3.) SILT FENCE FABRIC SHALL BE REPLACED PROMPTLY WHEN IT DECOMPOSES OR BECOMES INEFFECTIVE BEFORE THE BARRIER IS NO LONGER NECESSARY.
- 4.) ALL SOILS TRACKED ONTO PAVEMENT SHALL BE REMOVED DAILY.
- 5.) ANY SEDIMENT REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER FABRIC IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED WITH THE APPROPRIATE SEED MIX.
- 6.) IN THOSE AREAS WHERE WOOD FIBER BLANKET OR OTHER SLOPE STABILIZATION METHOD HAS FAILED, THE SLOPE SHALL BE REESTABLISHED, SEED AND TOPSOIL REPLACED, AND ADDITIONAL SLOPE TREATMENT INSTALLED.
- 7.) SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPWARD SLOPE AREA HAS BEEN PERMANENTLY STABILIZED. REMOVAL IS REQUIRED WITH ALL TEMPORARY EROSION CONTROL FACILITIES (SEDIMENT FILTERS, HAY BALES, ETC.) ONCE SITE IS PERMANENTLY STABILIZED BY THE BUILDER.
- 8.) ALL PERMANENT SEDIMENTATION BASINS MUST BE RESTORED TO THEIR DESIGN CONDITION IMMEDIATELY FOLLOWING PERMANENT STABILIZATION OF THE SITE.

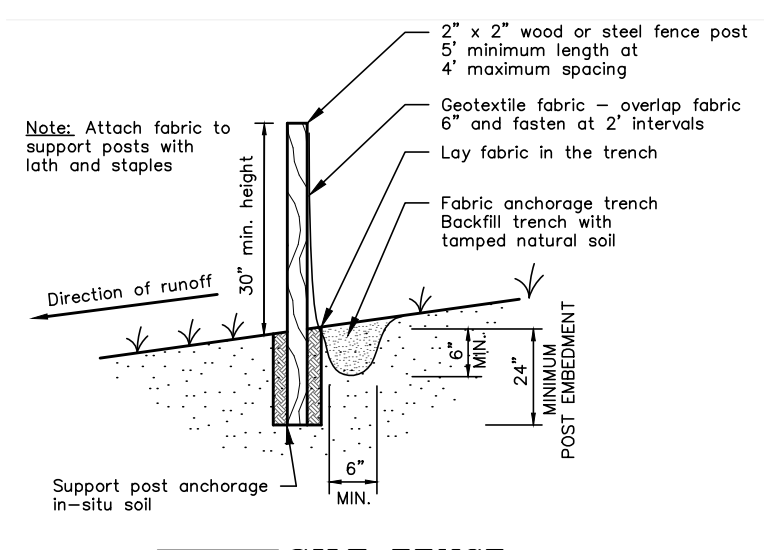
EROSION CONTROL LEGEND:

-  WOOD FIBER BLANKET
-  ROCK CONSTRUCTION ENTRANCE
-  SEDIMENT TRAP OUTLET
-  TREE PROTECTION
-  SILT FENCE

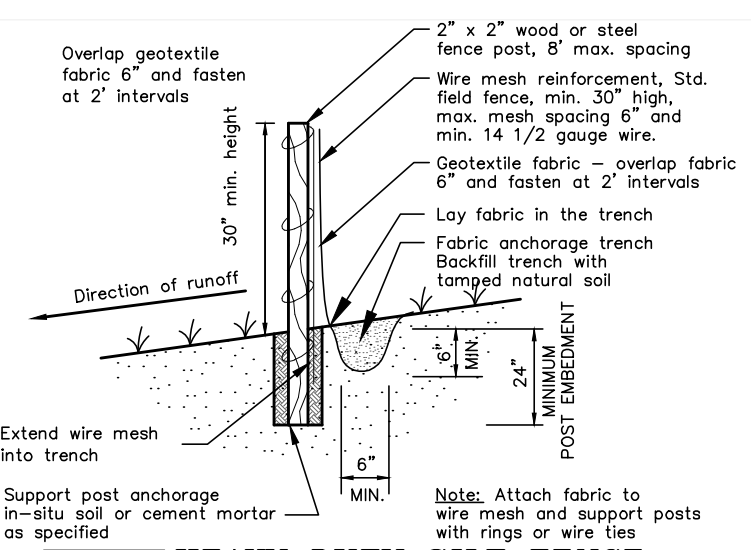
PRELIMINARY
NOT FOR CONSTRUCTION



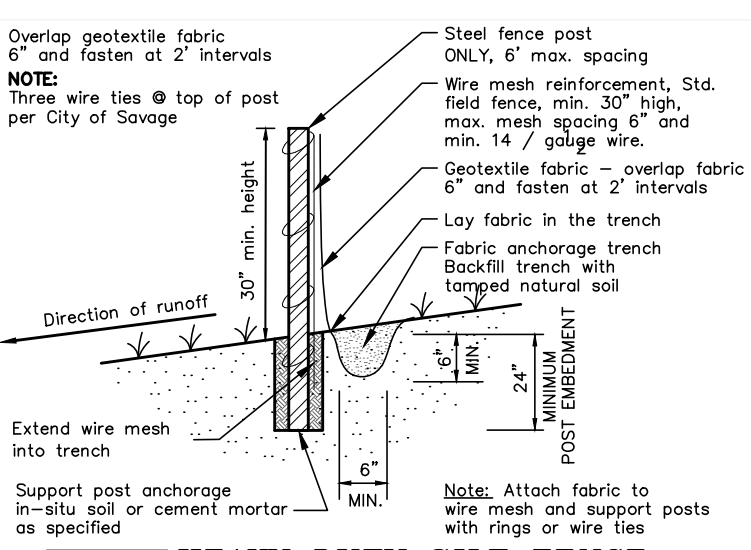
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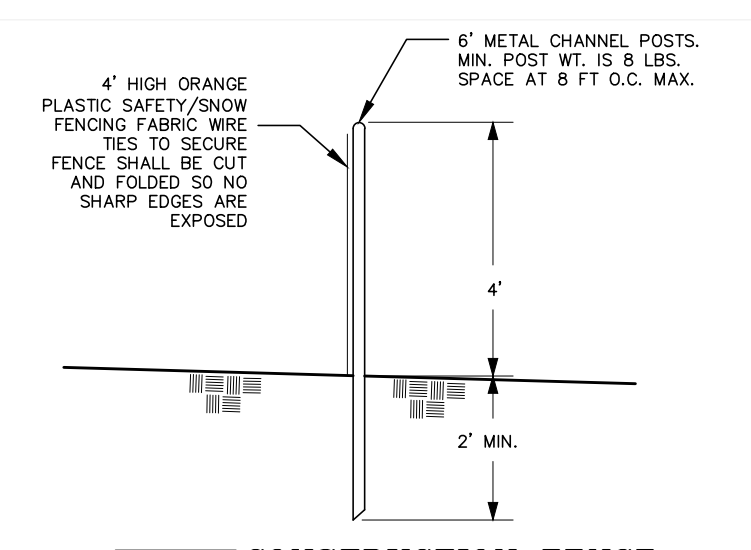
T-1 SILT FENCE
NO SCALE



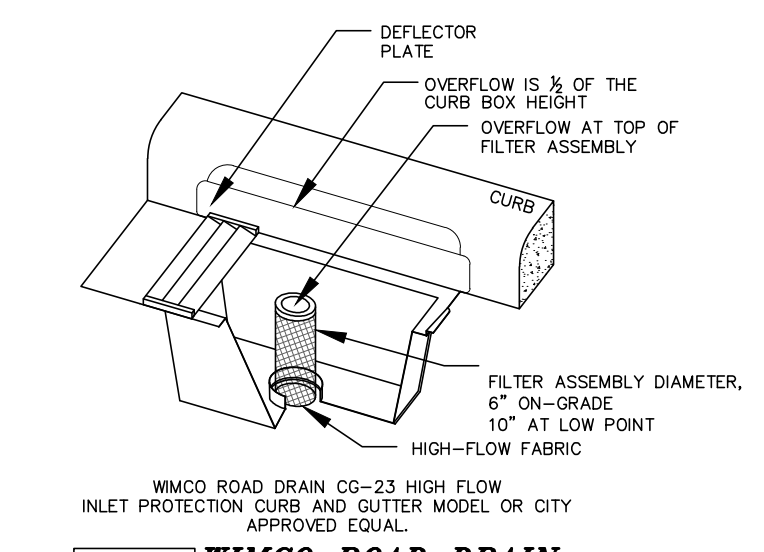
T-2 HEAVY DUTY SILT FENCE
NO SCALE



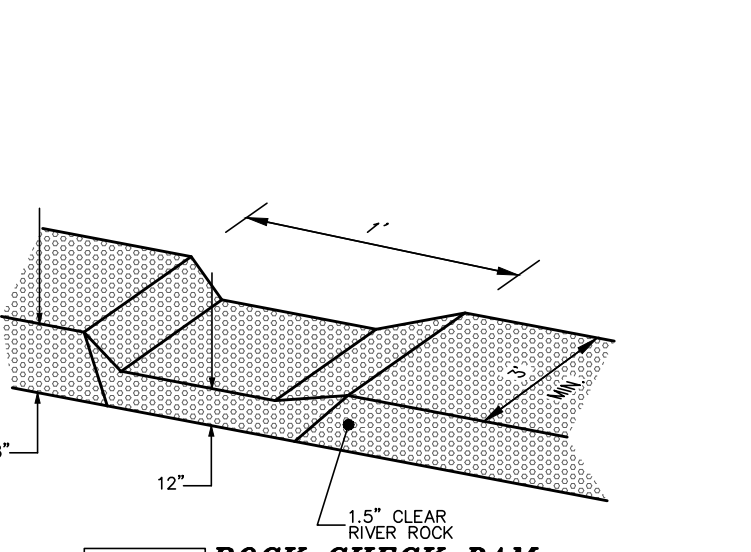
T-3 HEAVY DUTY SILT FENCE
NO SCALE (STEEL POST ONLY)



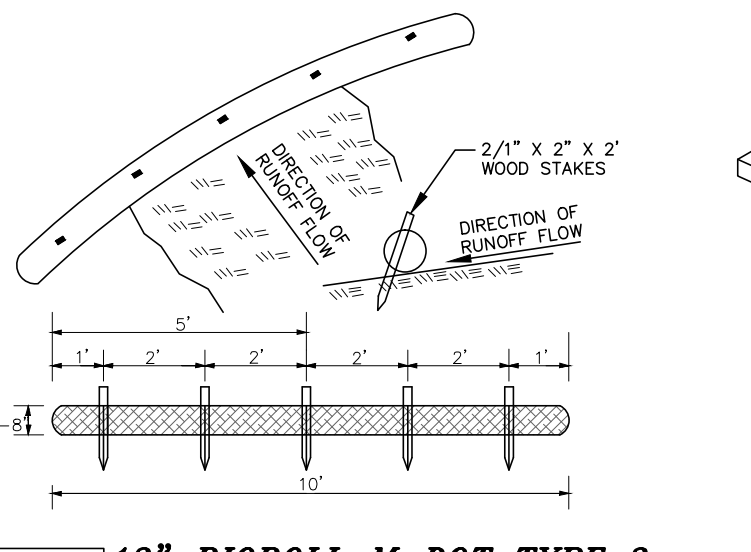
T-4 CONSTRUCTION FENCE
NO SCALE



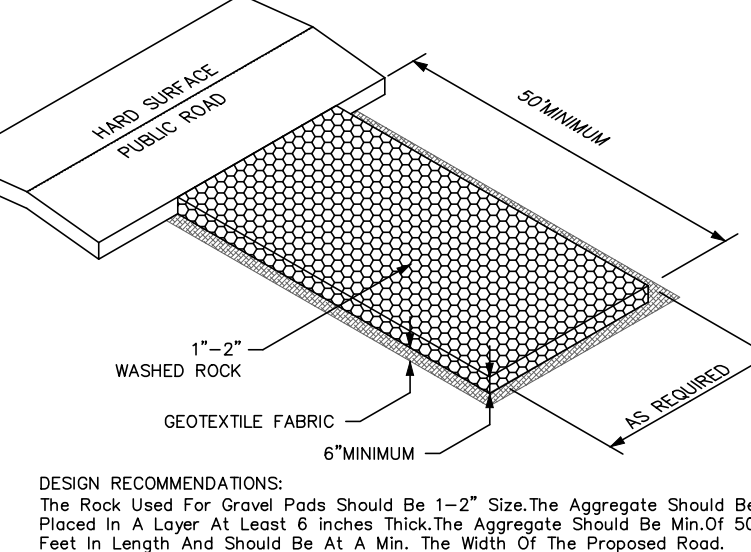
T-5 WINCO ROAD DRAIN
NO SCALE



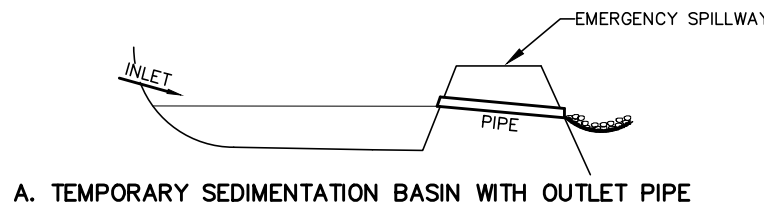
T-6 ROCK CHECK DAM
NO SCALE



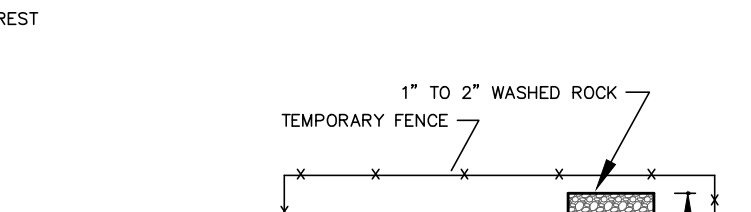
T-7 12\"/>



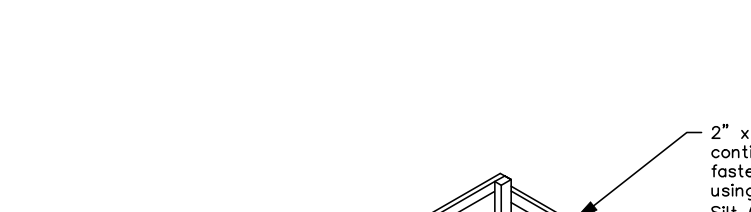
T-8 ROCK CONSTRUCTION ENTRANCE
NO SCALE



A. TEMPORARY SEDIMENTATION BASIN WITH OUTLET PIPE



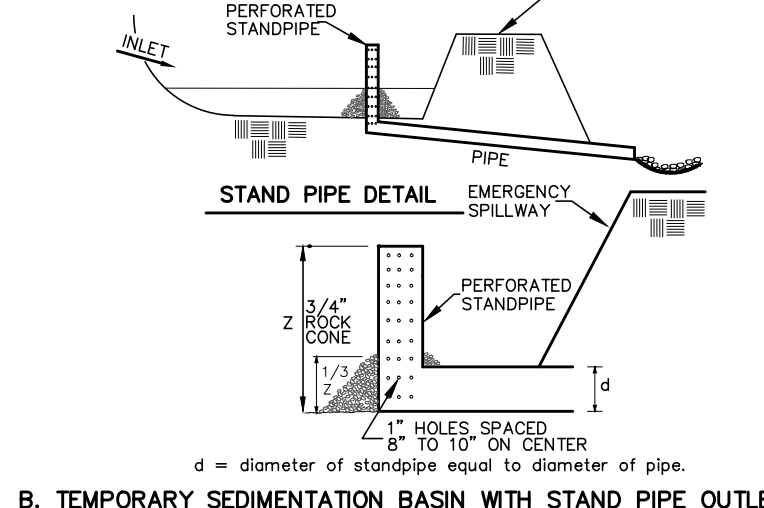
B. TEMPORARY SEDIMENTATION BASIN WITH STAND PIPE OUTLET



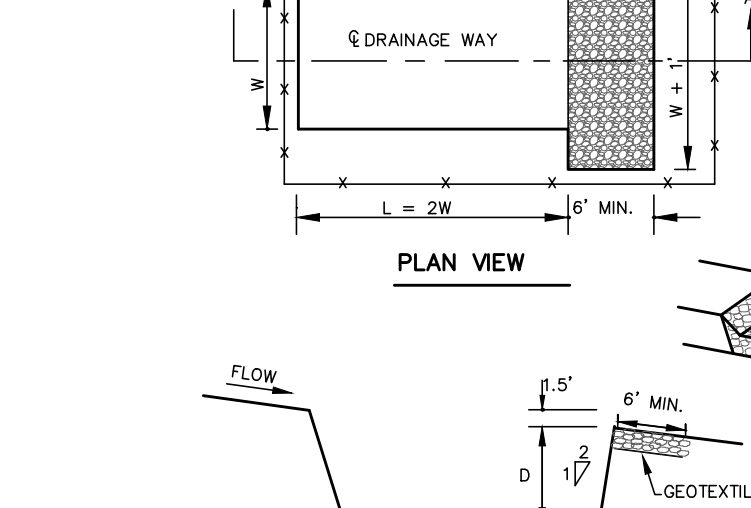
T-9 TEMPORARY SEDIMENTATION BASIN
NO SCALE



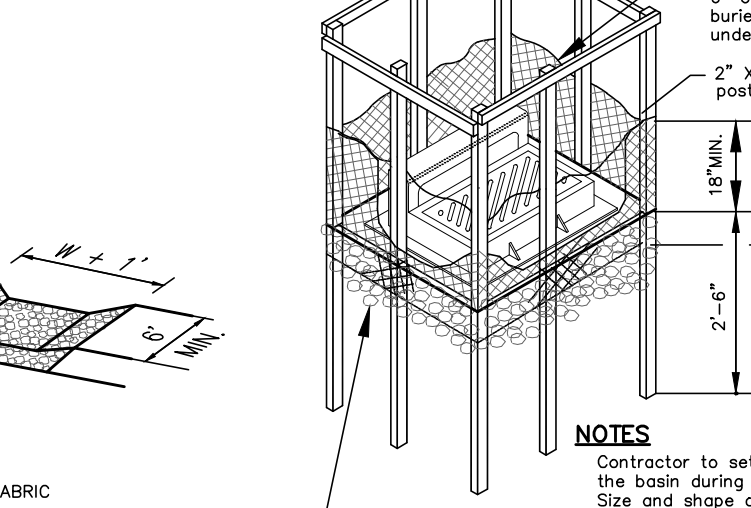
T-10 TEMPORARY SEDIMENT TRAP
NO SCALE



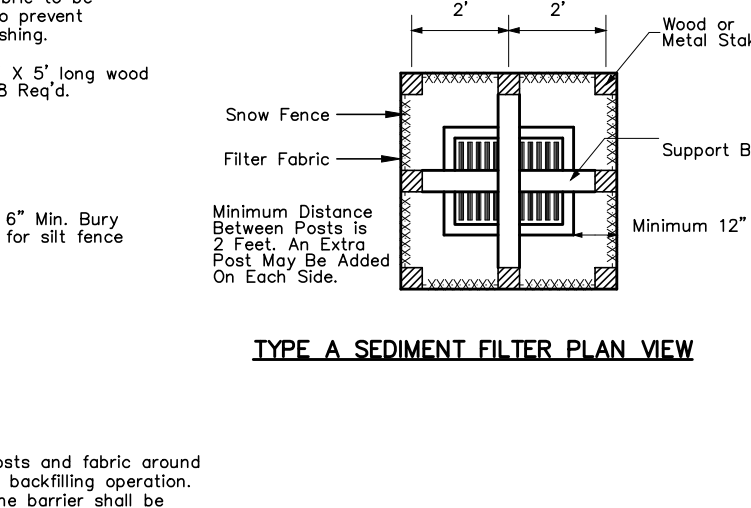
T-11 EROSION CONTROL AROUND CATCH BASINS
NO SCALE



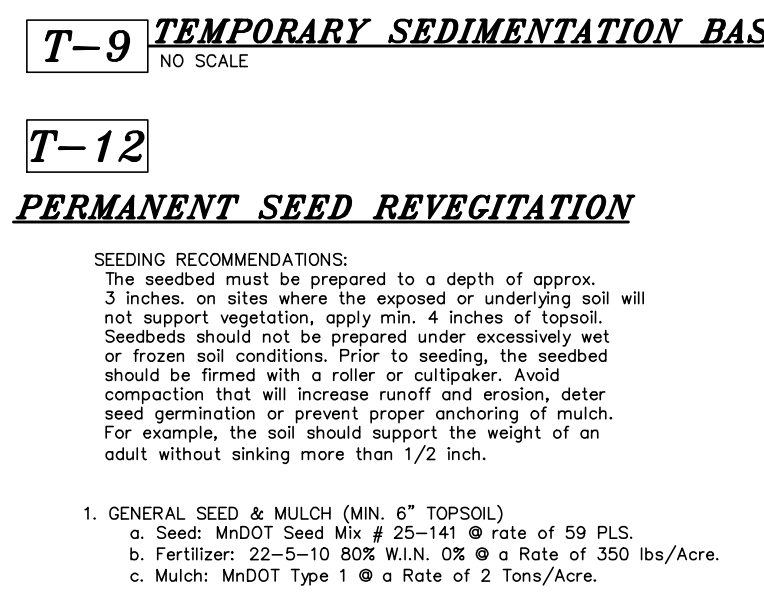
T-12 PERMANENT SEED REVEGETATION
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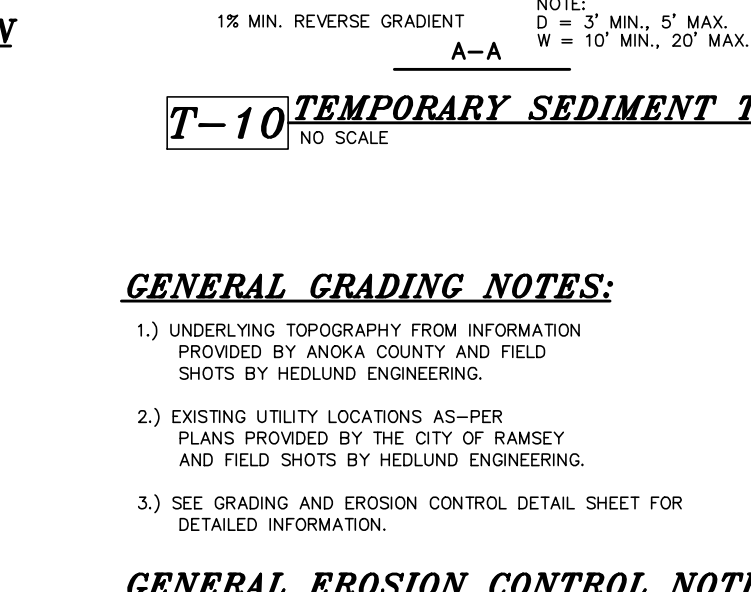
T-13 GENERAL GRADING NOTES
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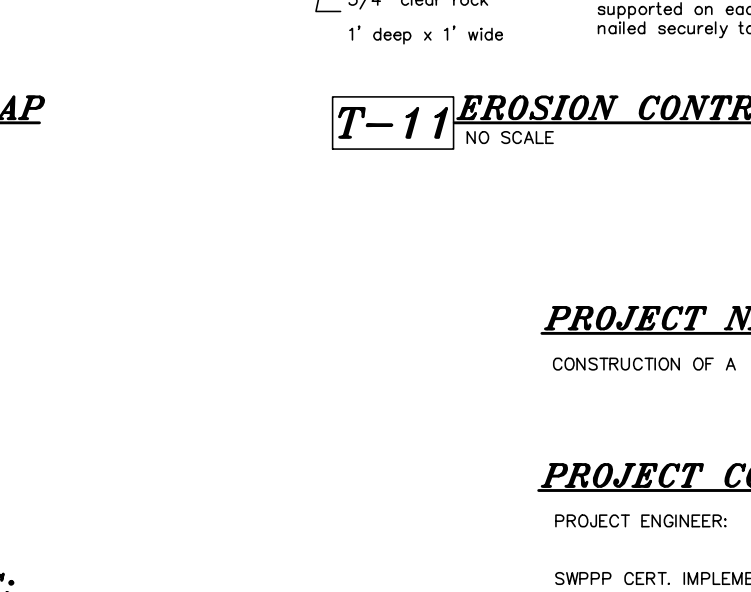
T-14 PROJECT NARRATIVE
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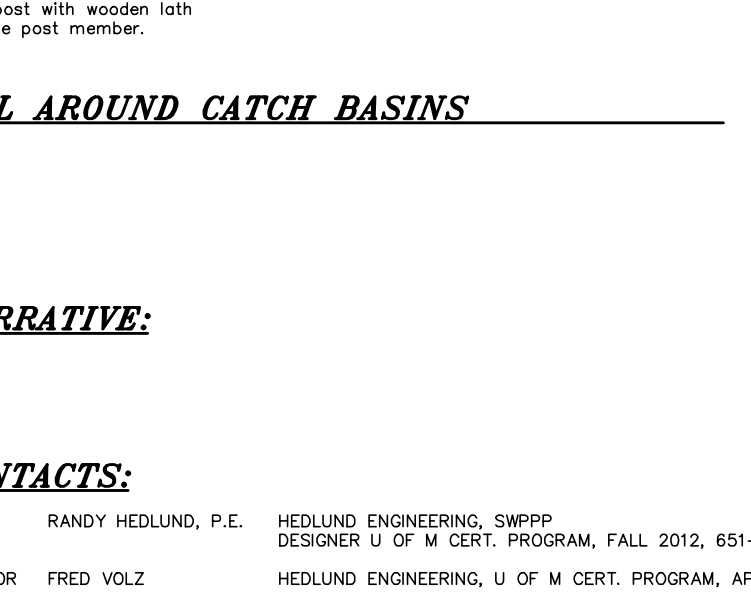
P-1 PERMANENT SOD REVEGETATION
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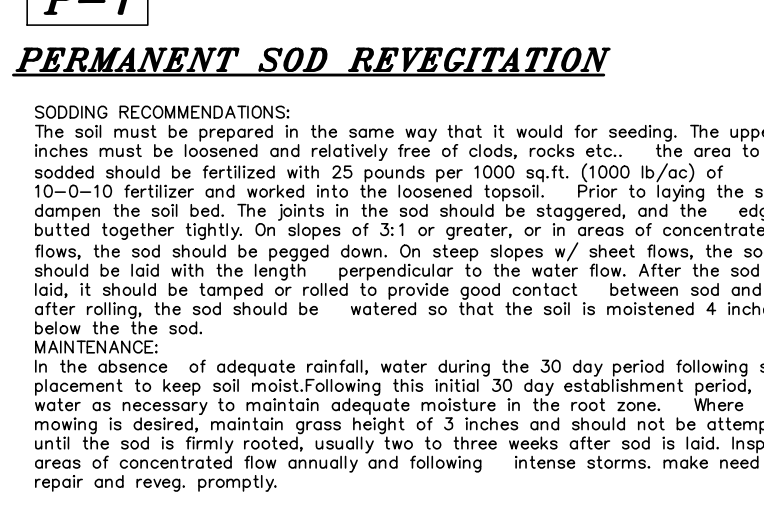
P-2 PERMANENT SEED REVEGETATION
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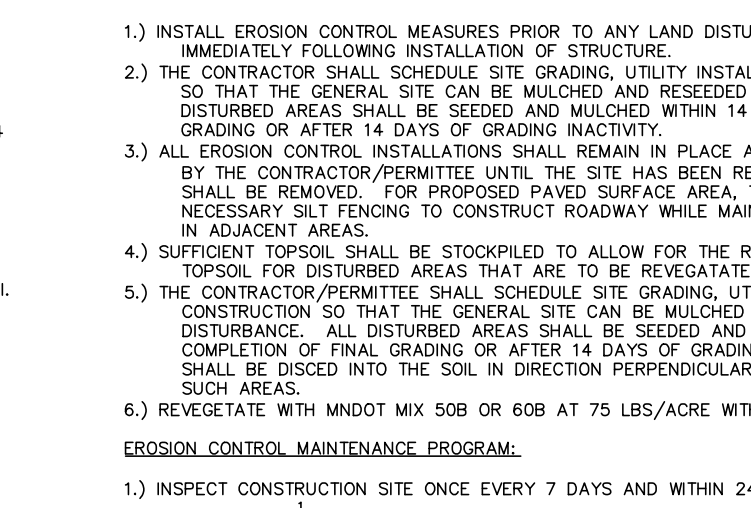
P-3 GENERAL EROSION CONTROL NOTES
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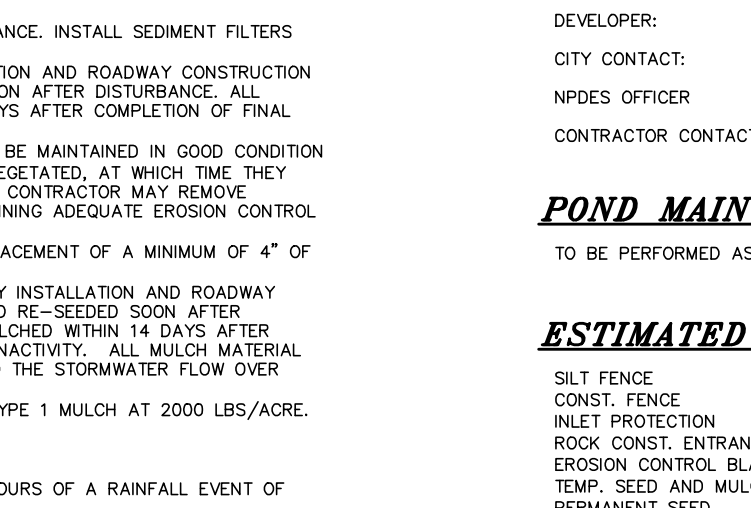
P-4 POND MAINTENANCE
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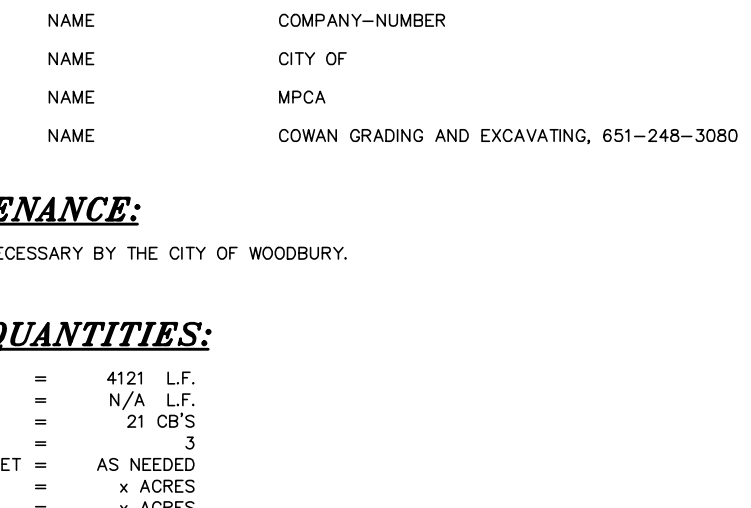
P-5 SEQUENCE OF CONSTRUCTION
NO SCALE



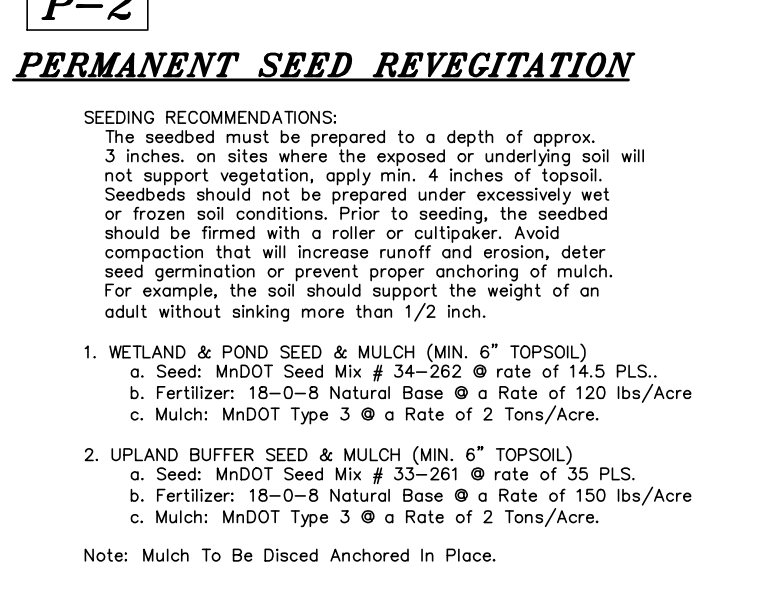
P-6 ESTIMATED QUANTITIES
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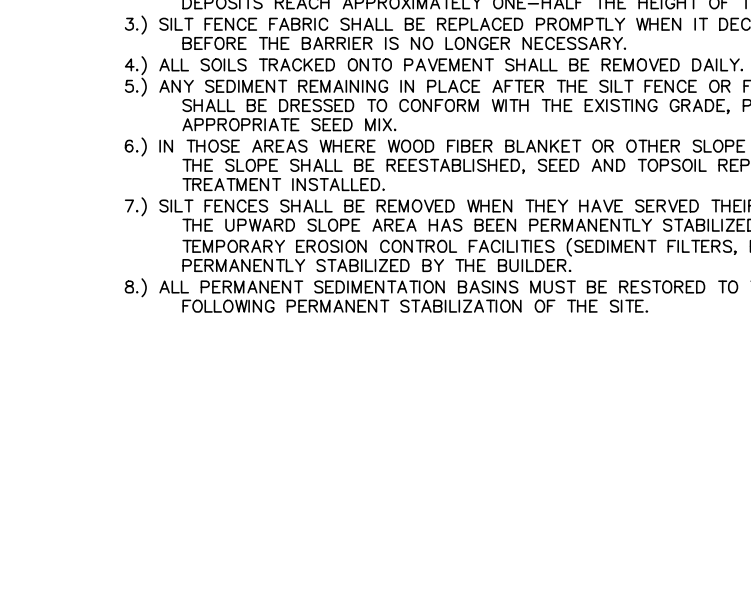
P-7 EROSION CONTROL MAINTENANCE PROGRAM
NO SCALE



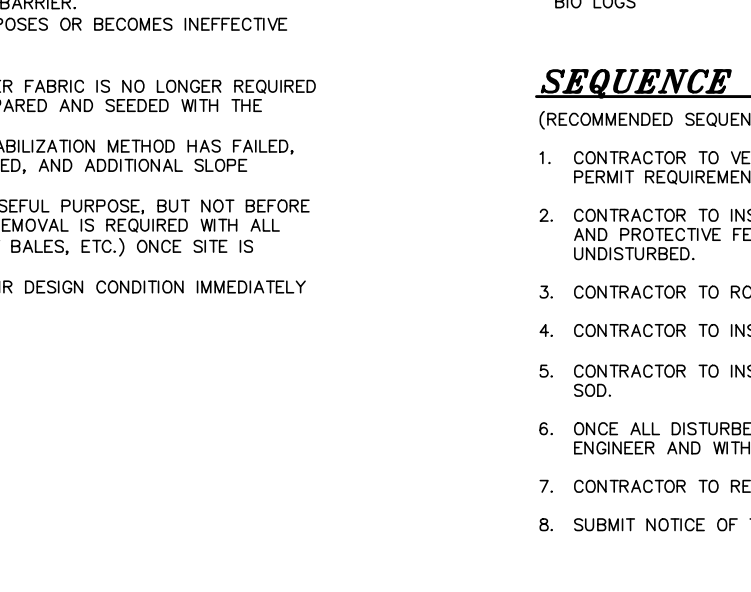
P-8 RECORD RETENTION
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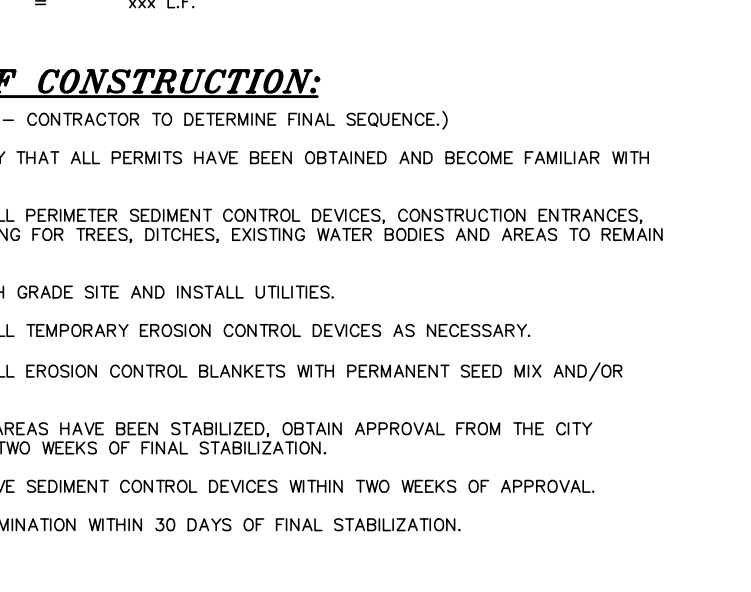
P-9 PLAN SHEETS
NO SCALE



P-10 WETLAND & POND SEED & MULCH
NO SCALE



P-11 UPLAND BUFFER SEED & MULCH
NO SCALE



P-12 HARVEST ESTATES EROSION CONTROL PLAN
NO SCALE

NPDES GENERAL PERMIT REQUIREMENTS

CONSTRUCTION ACTIVITY NOTES:

EROSION PREVENTION PRACTICES:
Phased construction will be used to extent practical or as indicated in the plans to minimize exposed soil. Areas not to be disturbed shall be delineated with flags, stakes, signs, silt fence, etc. prior to work beginning. The normal wetted perimeter of all ditches or swales, including storm water management pond slopes, that drain waters from the site must be stabilized within 200' of any property edge or discharge point, including storm sewer inlets, within 24 hours of connection. Energy dissipation or other outlet treatment must be installed within 24 hours of connection. All exposed soils must be stabilized as soon as possible but in no case later than 14 days after the construction activity has temporarily or permanently ceased.

Seed and/ or sod, fertilizer, and mulch shall be placed as indicated in the plans and project specifications. Rapid stabilization shall be of type and quantity indicated in the project specifications. Additional rapid stabilization may be necessary to minimize erosion throughout the duration of the project. Type and quantity shall be determined by the engineer or inspector prior to installation.

If the contractor stockpiles material on site, he shall install the appropriate erosion control devices around the stockpile and perform the best management practices possible to avoid erosion from the stockpile. Temporary (or permanent) sedimentation ponds are required for areas > 10 acres of disturbed soils draining soils draining to one point.

SEDIMENT CONTROL PRACTICES:
Installation of silt fence and all other down gradient sediment protection measures shall be completed prior to commencement of upstream land disturbing activities. Silt fence shall be installed along the constant contours with continuous links not to exceed 600 feet. No unbroken slope lengths greater than 75 feet are permitted when slope is 3:1 or greater. Slope shall be broken with silt fence or biorolls as indicated on plans.

Vehicle trafficking to be minimize to all practical extents. All eroded material that leaves the construction zone shall be collected by the contractor and returned to the site at the contractor's expense. All stockpiles shall be surrounded by silt fence and seeded with temporary seed and mulch. See erosion and sediment control plans.

All site storm sewer inlets as well as off-site downstream inlets with potential to receive sediment, shall be protected with approved inlet protection measures at all times. Inlets shall remain protected until site is 100% stabilized and vegetation is at least 70% established. Inlet protection may be removed in winter, if the project has an approval letter from jurisdictional authority or can produce it within 72 hours.

TEMPORARY SEDIMENTATION BASINS AND DEWATERING:
Temporary sedimentation basins are required prior to runoff leaving the construction site or entering surface waters when 10 or more acres of disturbed soils drain to a common location. The basin must provide 3600 ft.³ of storage below the outlet per acre drained. If hydraulic calculations are available, the temporary sedimentation basin must provide a storage volume equivalent to the 2- year, 24- hour storm, but in no case less than 1800 ft.³ per acre drained. The temporary sedimentation basin must be constructed and made operational concurrent with the start of soil disturbance up gradient of the pond. All dewatering on site during construction must be routed to temporary sedimentation basins.

Temporary sedimentation basins must be trained within 48 hours of any rainfall event. If the rock filtered outlets plug or cause the pond not to drain within 48 hours, ponds are to be drained with pumps. Pump inlets should be protected with a geotextile membrane and rock filter set up as shown in the details, or an approved alternative. Excessive sediment-laden water that is not properly filtered will not be permitted to discharge from the site.

Dewatering practices cannot cause downstream nuisance conditions, erosion, or non-permitted wetland inundation causing adverse impacts. The permittees must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours of a rainfall event greater than 0.5 inches in a 24-hour period.

All inspections performed during construction must be recorded and records retained on site with the SWPPP in accordance with the stormwater permit. Records must include a site map showing areas of land disturbing activities and areas where activities have temporarily or permanently ceased.

INSPECTION AND MAINTENANCE:
Silt fence, biorolls and Inlet protection devices must be maintained when nonfunctional or when accumulated sediment reaches 1/3 of device height. Off-site vehicle tracking to be removed within 24 hours of occurrence.

All non-functional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours of discovery, or as soon as field conditions allow access. **POLLUTION PREVENTION:** All solid waste collected from the construction site must be disposed of in accordance with MPCA disposal requirements.

Concrete washout must be contained in a device similar to those provided by Neaton Brothers Concrete Washout LLC. Equivalent units shall be approved by engineer. Unit must be maintained to manufacturer recommendation. All hazardous materials (e.g., oil, gasoline, fuel, antifreeze, paint, cleaning solvents, curing compounds, fertilizers, etc.) must be properly stored, (including secondary containment when necessary) to prevent spills, leaks, or other discharge. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.

External washing areas must be limited to a defined area of the site. All runoff containing any hazardous material must be properly collected and disposed of. Defined area must be contained with heavy-or super-duty silt fence. NO ENGINE DEGREASING ALLOWED ON-SITE. The contractor is responsible for monitoring air pollution and ensuring it does not exceed levels set by local, state, or federal regulations. This includes dust created by work being performed on the site. Air pollution and dust control correction is considered incidental to the unit bid prices for which work is being performed. Additional dust control measures may be required by the engineer.

FINAL STABILIZATION:
The permittees must insure final stabilization of the site. Final stabilization shall include a minimum of 70%, vegetation establishment (100% stabilized) on all pervious areas. The permanent stormwater management system is constructed, meets all requirements and is operating as designed. Temporary or permanent sedimentation basins that are to be used as permanent water quality management basins have been cleaned of any accumulated sediment. All sediment has been removed from conveyance systems and ditches are stabilized with permanent cover.

All temporary erosion control measures and BMPs must be removed as part of the final site stabilization, unless directed otherwise by owner or engineer. For residential construction only, individual lots are considered finally stabilized if the structure(s) are finished and temporary erosion protection and downgradient perimeter control has been completed and the residence has been sold to the homeowner. Additionally, the Permittee has distributed the MPCA's "Homeowner Fact Sheet" to the homeowner to inform the homeowner of the need for, and benefits of, permanent cover.

RECORD RETENTION:
The SWPPP, all changes to it, and inspections and maintenance records must be at the site during construction. All owner(s) must retain the following for 3 years after submittal of NOT:

- 1) SWPPP;
- 2) Any other permits required for the project;
- 3) Inspection and maintenance logs;
- 4) All permanent operation and maintenance agreements for surface water facilities;
- 5) All design calculations for temporary and permanent stormwater management.

PLAN SHEETS:
Sheet number CE 1 of this plan set is also considered a part of the SWPPP for this project.

PRELIMINARY
NOT FOR CONSTRUCTION

PROJECT NUMBER	
141029	
BY	
DATE	
REVISIONS	
REMARKS	

CERTIFICATION: I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: _____ Date: _____
Randall C. Hedlund M.N. LIC. NO. 19576

HEDLUND
ENGINEERING
SURVEYING
PLANNING
FLANNING
2005 Pin Oak Drive
Eagan, MN 55122
Phone: (651) 405-6600
Fax: (651) 405-6606

SHEET TITLE:		
HARVEST ESTATES EROSION CONTROL PLAN		
PREPARED FOR:		
NIK MANAGEMENT INC.		
11736 177TH St. W.		
Lakeville, MN 55044		
Phone: (952) 236-9424		
DRAWN	CHECKED	DESIGN
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SHEET NUMBER		
CE-2		
DATE	3/5/2015	
REV.	---	