

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota

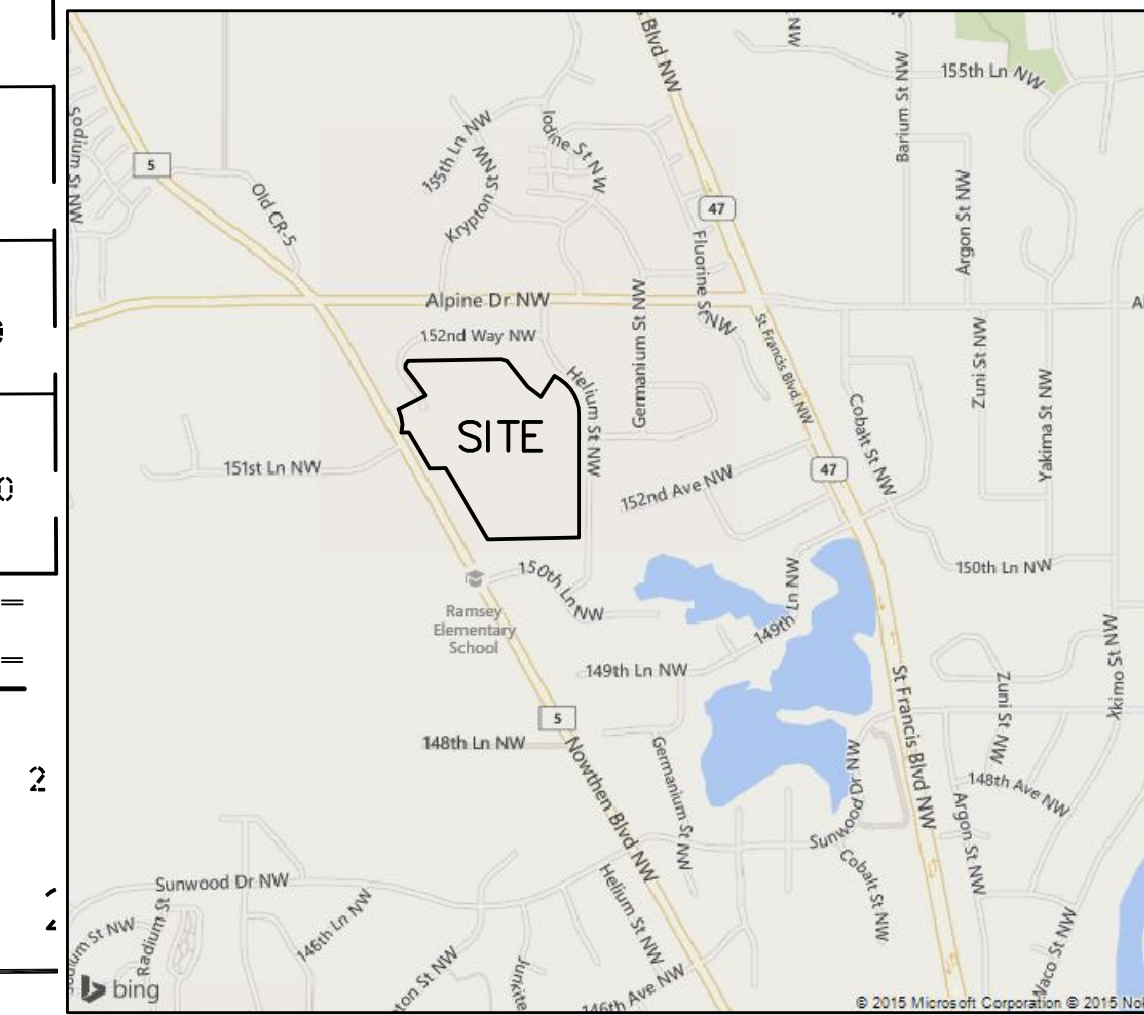
PROJECT NUMBER		141029
BY	DATE	
REVISIONS	REMARKS	

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

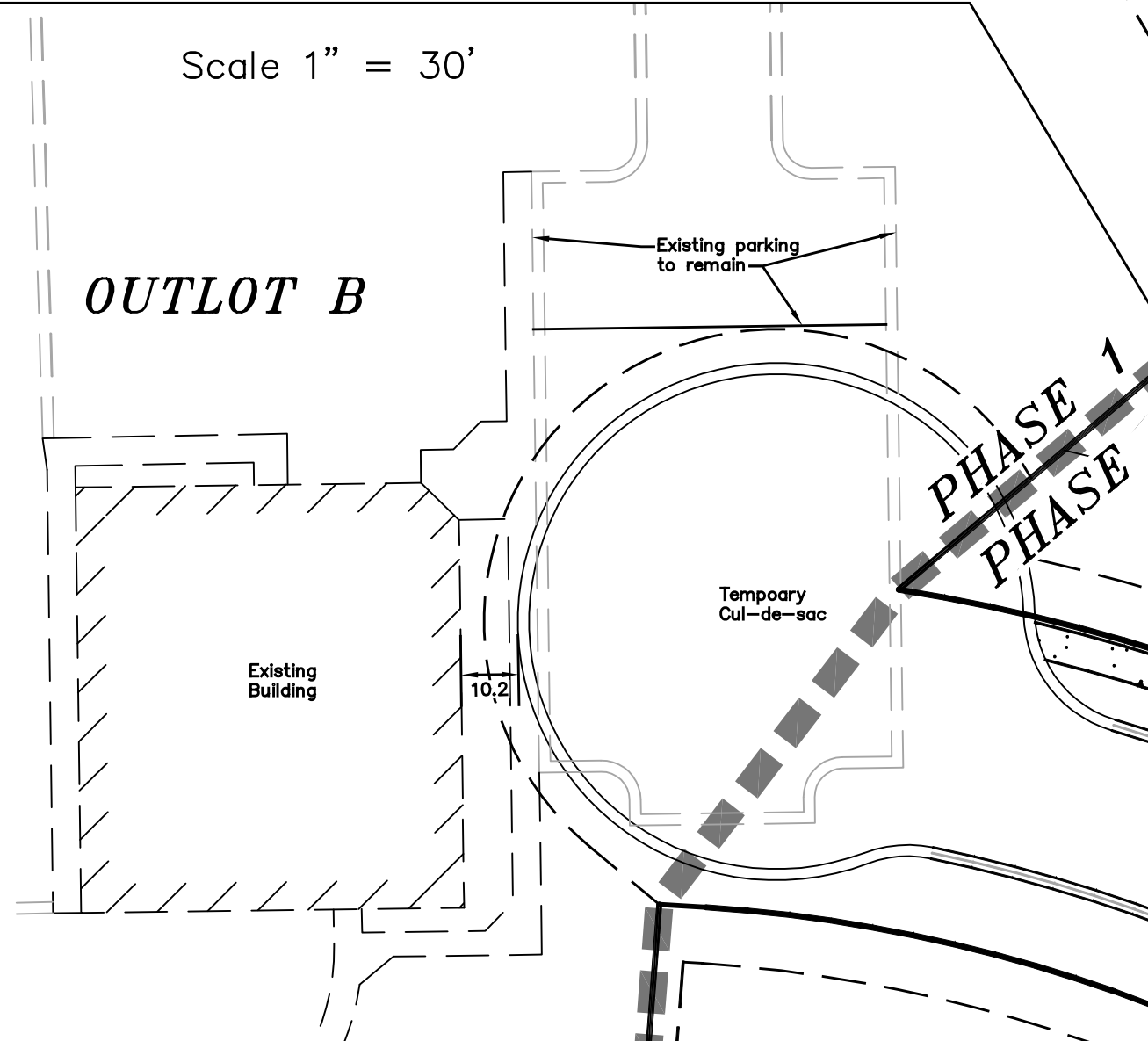
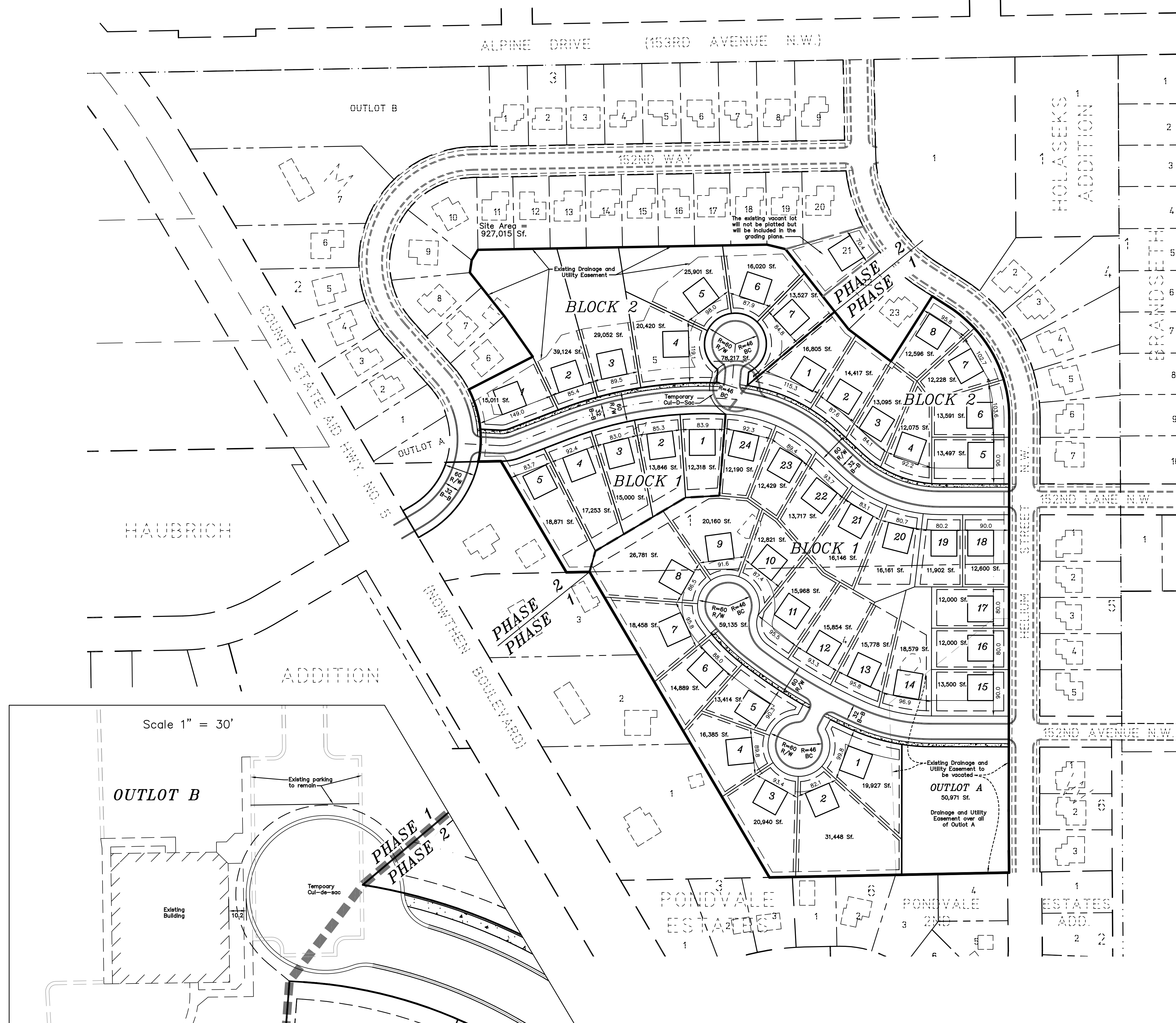
PREPARED BY:

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

SHEET TITLE:

DRAWN	CHECKED	DESIGN
SHEET NUMBER		
C-1		

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



**PRELIMINARY
 NOT FOR CONSTRUCTION**



Scale 1" = 100'

Drawing: H:\2014 Projects\141029\Cadd\Submit\Site\Site.dwg
 Layout: Prelim Site Plan
 Date: Mar 05 2015 7:38am
 X-Ref Dwg: 141029\util.dwg
 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

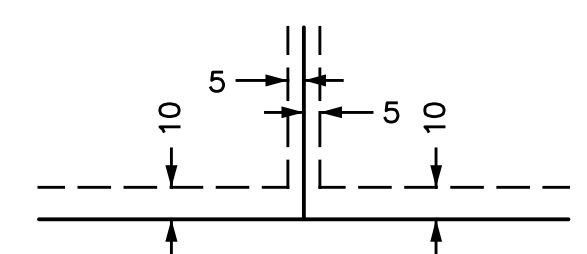
DRAWN	CHECKED	DESIGN

SHEET NUMBER
C-2

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



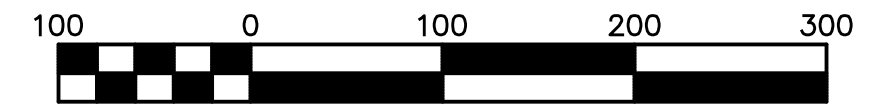
Drainage and Utility Easements are shown thus:



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'

Drawing: H:\2014 Projects\141029\Cadd\Submittal\Shots\PlotSH1.dwg
Layout: PP_Plat
Date: Mar 04, 2015 4:16pm
X-Ref Dwg: 141029base.dwg

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota

PROJECT NUMBER	141029
REVISIONS	
REMARKS	
DATE	
BY	

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.

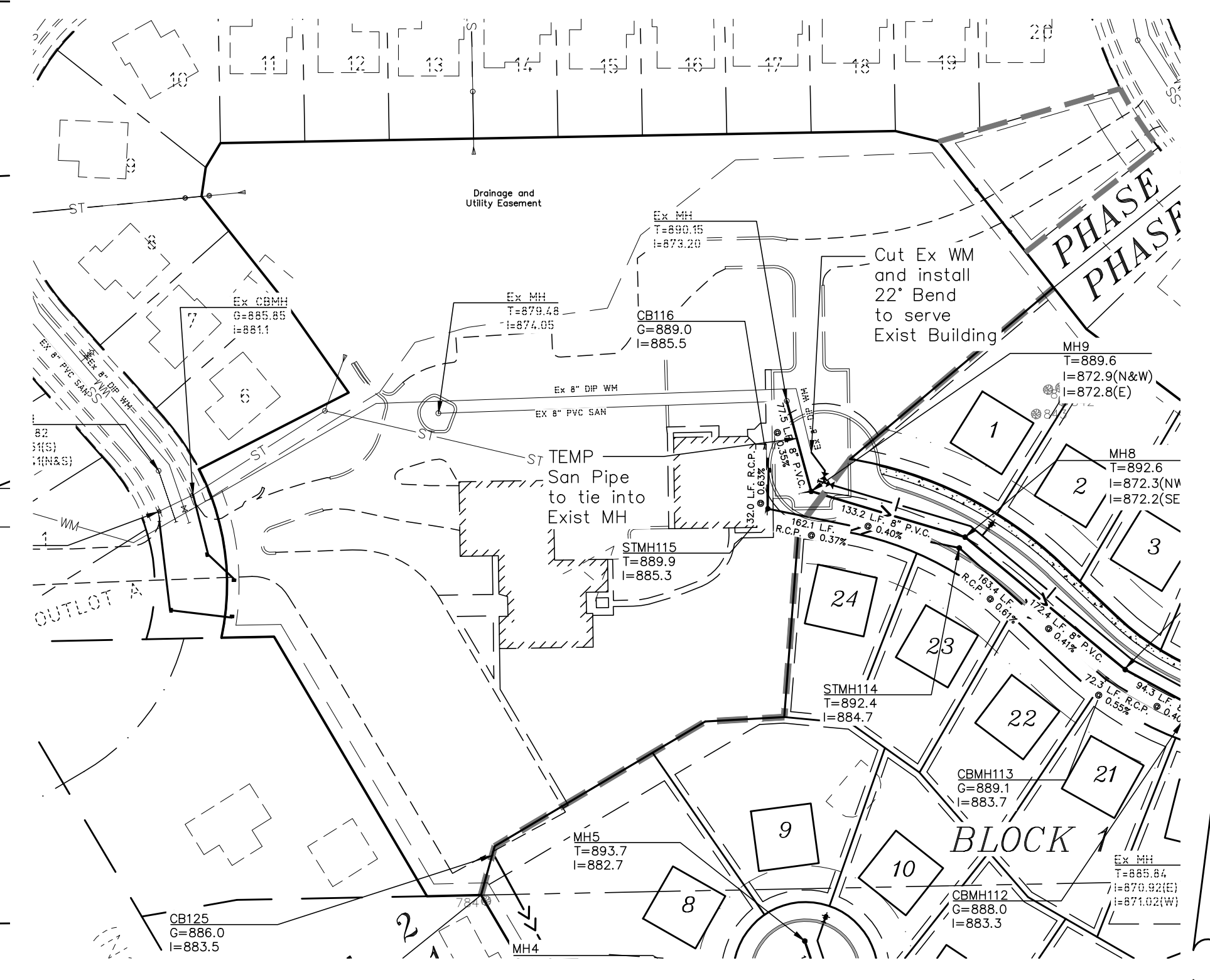
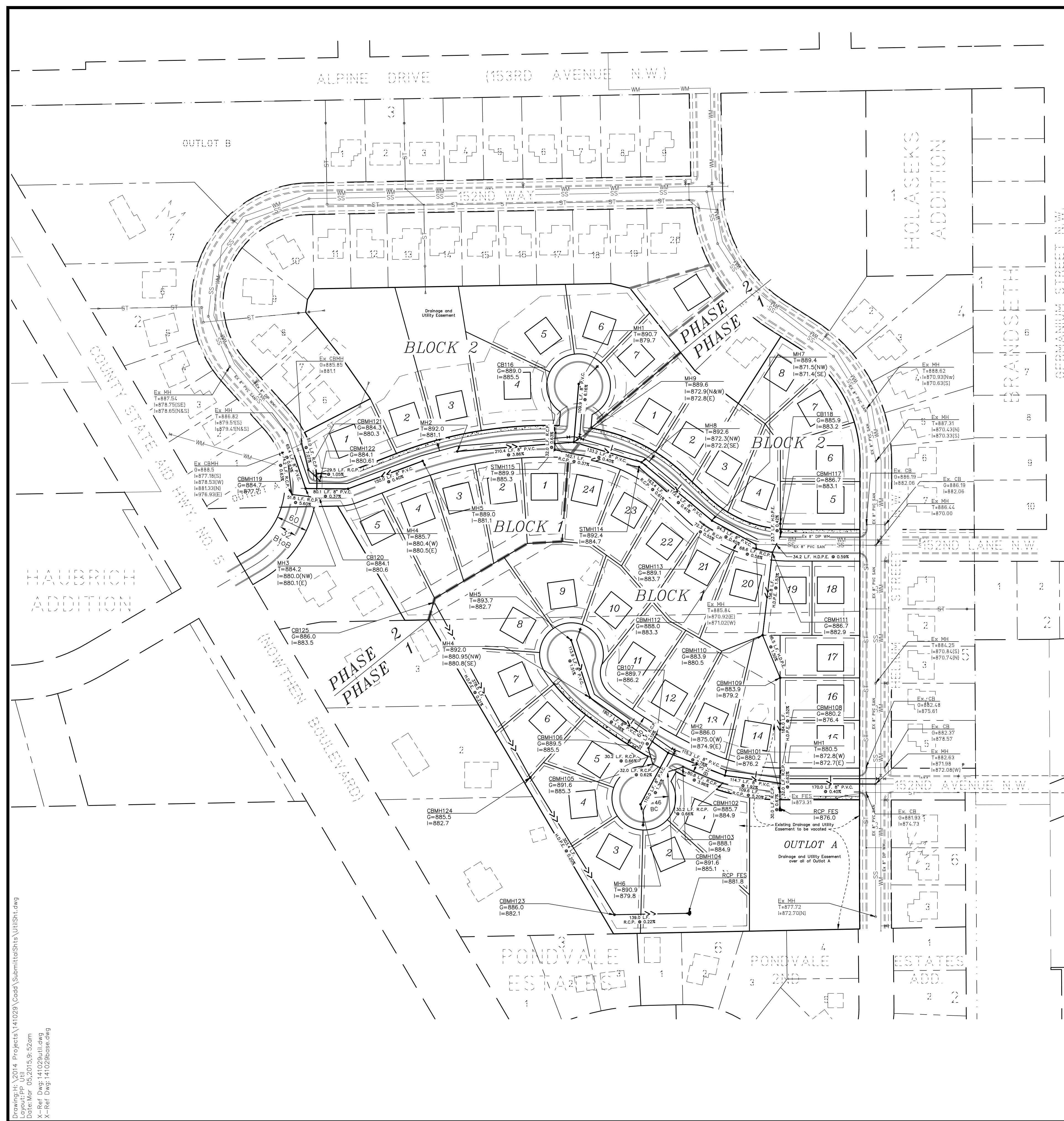
CERTIFICATION: I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Date: MN. 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

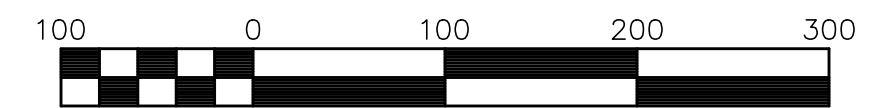
SHEET TITLE: HARVEST ESTATES UTILITY PLAN
PREPARED FOR: NIK MANAGEMENT INC.
11736 177TH ST. W.
Lakeville, MN 55044
Phone: (952) 236-9424

DATE: 3/5/2015
REV: ---



PHASE 1 DETAIL

PRELIMINARY
NOT FOR CONSTRUCTION



Drawing: H:\2014 Projects\141029\Cadd\Submit\141029.dwg
Date: Mar 05 2015 9:52am
Layout: PP (1)
X-Ref: Dwg: 141029.dwg
X-Ref: Dwg: 141029.dwg

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota

PROJECT NUMBER
141029

REVISIONS	DATE	BY	REMARKS

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

PLANTING NOTES:

Contractor shall provide one year guarantee of all plant materials. The guarantee begins on the date of the Landscape Architect's written acceptance of the initial planting. Replacement plant materials shall also have a one year guarantee commencing upon planting.

All plants to be northern-grown and hardy.

Plants to be installed as per standard AAN planting practices.

Use minimum 12" loam planting soil on trees.

Contractor shall verify locations with all utilities prior to installation of plants.

Staking of trees optional; reposition if not plumb after one year.

Wrap all smooth-barked trees-fasten top and bottom. Remove by April 1.

Open top of burlap on B&B materials; remove pot on potted plants; split and break apart peat pots.

Prune plants as necessary - per standard nursery practices.

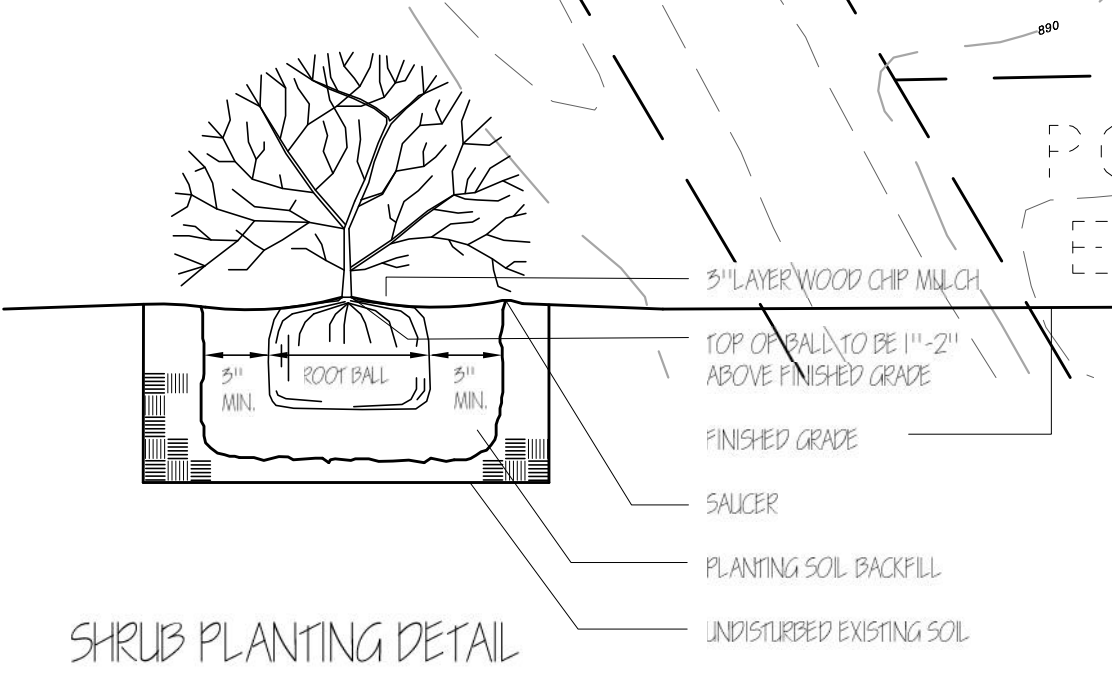
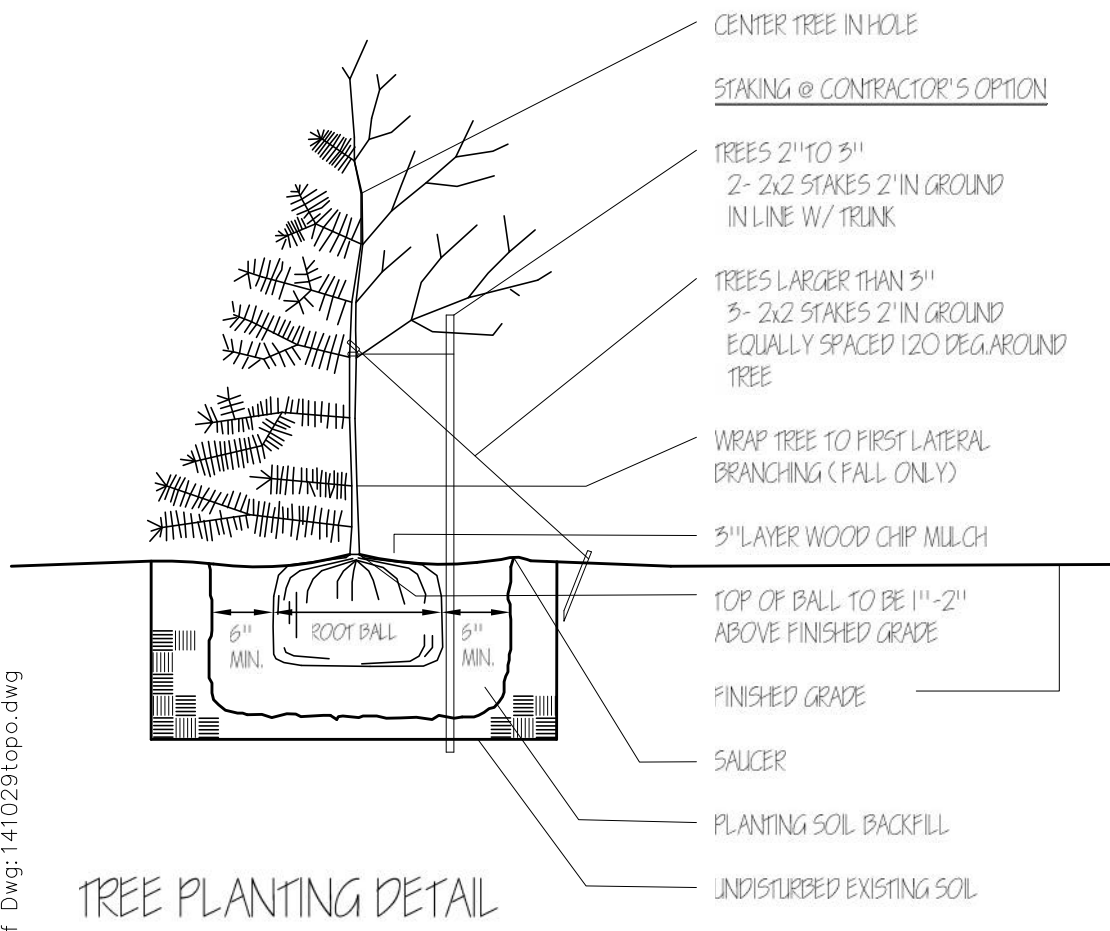
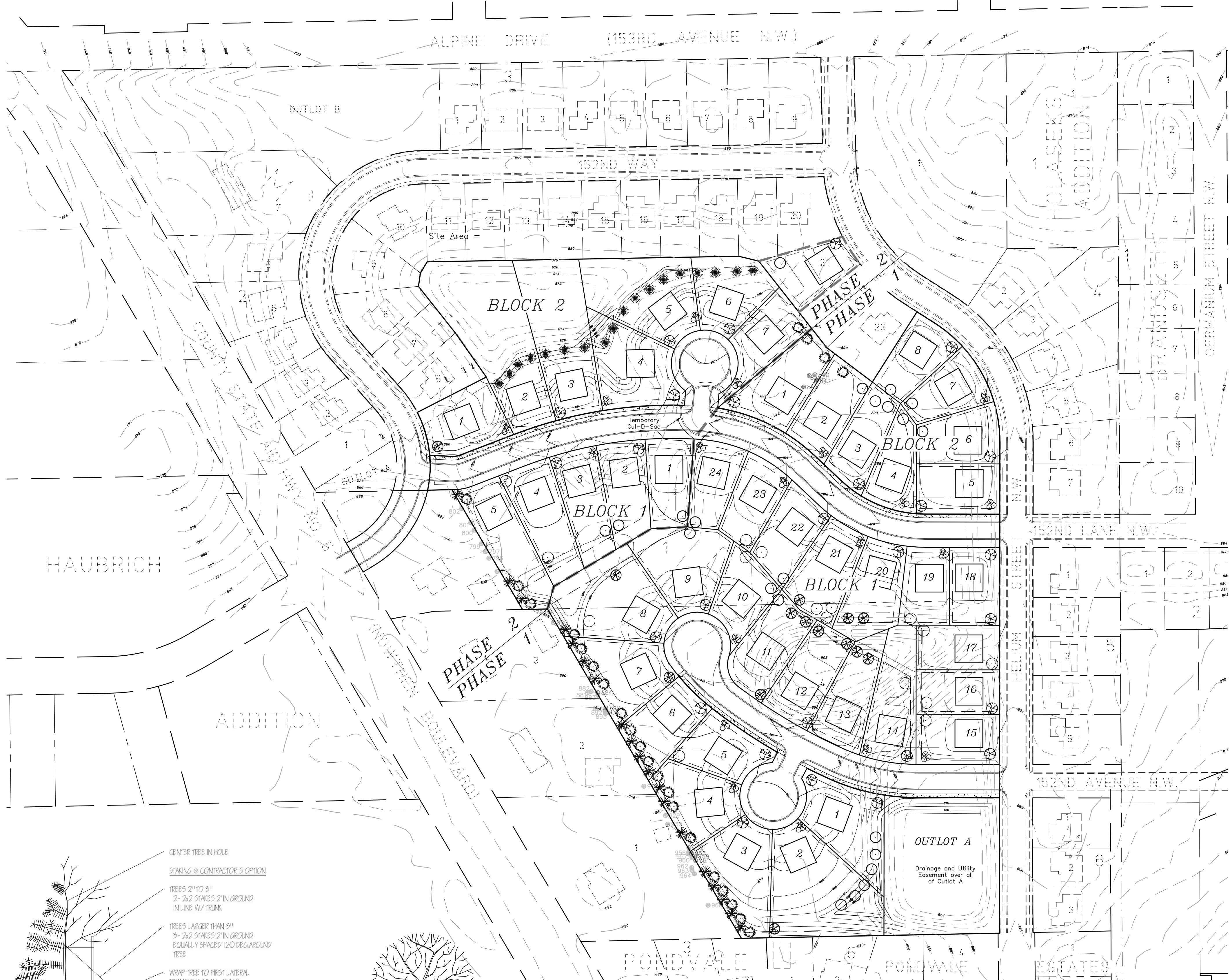
Owner shall be responsible for maintenance after acceptance of the work by the Owner.

Plants shall be immediately planted upon arrival at site. Properly heat-in materials if necessary; temporary only.

Strawbed hardwood mulch (4"-6" deep) shall be placed around all new trees and shrub clusters. Diameter of mulched areas shrubs shall be a minimum of 4' from the trunk or stem of all trees and shrubs. Trench edging shall be used around all mulched areas.

PLANT LIST:

QTY.	KEY	SYM	COMMON NAME	BOTANICAL NAME	SIZE / ROOT
19	AP	☼	Austrian Pine	Pinus nigra	6' B&B
24	SPS	☼	Black Hills Spruce	Picea glauca densata	6' B&B
18	BF	☼	Balsam Fir	Abies balsamea	6' B&B
14	NM	☼	Norway Maple	Acer platanoides	2.5" B&B
16	LL	☼	European Linden	Tilia americana	2.5" B&B
19	BP	☼	River Birch	Betula nigra	2.5" B&B
27	PA	☼	Palmetto Ash	Fraxinus pennsylvanica	2.5" B&B
25	SWO	☼	Swamp White Oak	Quercus bicolor	2.5" B&B



PRELIMINARY
NOT FOR CONSTRUCTION



Scale 1" = 100'

Drawing: H:\2014 Projects\141029\Drawings\Submit\052514\Shrub.dwg
Layout: Landscape Sheet
Date: Mar 05 2015 10:25am
X-Ref Dwg: 141029\util.dwg
X-Ref Dwg: 141029\hose.dwg
X-Ref Dwg: 141029\topo.dwg

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

SHEET TITLE:
**HARVEST ESTATES
LANDSCAPE PLAN**

PREPARED FOR:
NIK MANAGEMENT INC.
11746 177TH ST. N.
Lakewood, MN 55044
Phone: (952) 236-9424

DRAWN	CHECKED	DESIGN

SHEET NUMBER
C-4

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

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
708	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	815	Juniper	7.0	Good	1
727	Pine, red	7.0	Good	1	816	Juniper	17.0	Fair	5
728	Pine, red	4.5	Good	1	847	Juniper	7.0	Good	1
729	Pine, red	7.5	Good	1	848	Juniper	11.0	Fair	1
730	Pine, white	10.5	Good	1	849	Juniper	7.0	Good	1
731	Pine, red	7.0	Fair	1	851	Juniper	5.5	Good	1
732	Pine, red	6.0	Good	1	855	Juniper	6.0	Good	1
733	Pine, red	6.5	Good	1	865	Juniper	13.0	Fair	1
734	Pine, red	8.0	Good	1	866	Pine, red	9.5	Good	1
736	Spruce, white	4.0	Good	1	867	Pine, red	8.0	Good	1
738	Pine, red	10.0	Fair	1	868	Pine, red	8.5	Fair	1
739	Pine, red	8.0	Good	1	869	Pine, red	10.0	Good	1
748	Pine, red	9.0	Good	1	894	Pine, red	6.0	Good	1
750	Juniper	7.5	Good	1	895	Pine, red	7.0	Good	1
751	Juniper	8.0	Good	1	896	Pine, red	6.0	Good	1
752	Pine, Scots	7.5	Good	1	897	Pine, red	6.0	Good	1
753	Pine, Scots	8.0	Good	1	898	Pine, red	7.0	Good	1
754	Pine, Scots	7.0	Good	1	899	Pine, red	7.5	Good	1
757	Pine, Scots	9.5	Good	1	900	Pine, red	8.0	Good	1
758	Pine, Scots	7.0	Good	1	901	Pine, red	9.5	Good	1
759	Pine, Scots	13.0	Fair	1	908	Pine, red	7.0	Fair	1
760	Pine, Scots	8.5	Good	1	909	Pine, red	7.0	Good	1
761	Pine, Scots	4.0	Fair	1	910	Pine, red	5.0	Fair	1
762	Spruce, blue	5.5	Good	1	911	Pine, red	6.5	Good	1
763	Ash, green	8.5	Good	1	912	Pine, red	7.0	Good	1
764	Maple, silver	16.5	Good	1	913	Pine, red	10.5	Good	1
765	Ash, green	9.5	Good	1	914	Pine, red	10.0	Good	1
766	Spruce, blue	4.0	Fair	1	915	Pine, red	8.0	Good	1
767	Spruce, blue	4.5	Good	1	924	Pine, red	13.1	Good	1
768	Spruce, blue	5.5	Good	1	925	Pine, red	12.5	Good	1
769	Spruce, blue	7.5	Good	1	926	Pine, red	10.5	Good	1
770	Spruce, blue	8.0	Good	1	927	Pine, red	14.0	Good	1
771	Spruce, blue	5.0	Good	1	928	Pine, red	12.5	Good	1
772	Spruce, blue	6.0	Good	1	931	Pine, red	13.0	Good	1
773	Spruce, blue	7.0	Fair	2	932	Pine, red	12.5	Good	1
775	Spruce, blue	4.5	Fair	1	933	Pine, red	11.5	Good	1
776	Spruce, blue	6.0	Good	1	934	Pine, red	10.5	Good	1
777	Spruce, blue	7.0	Good	1	935	Pine, red	12.0	Good	1
778	Spruce, blue	5.0	Good	1	936	Pine, red	10.5	Good	1
779	Pine, Scots	9.0	Good	1	937	Pine, red	9.5	Good	1
780	Spruce, blue	4.0	Fair	1	938	Pine, red	9.5	Good	1
781	Spruce, white	5.0	Good	1	939	Pine, red	14.0	Fair	2
782	Spruce, white	4.5	Good	1	940	Pine, red	6.5	Fair	1
786	Spruce, white	5.0	Good	1	941	Pine, red	8.0	Good	1
787	Spruce, white	5.0	Good	1	942	Pine, red	5.5	Good	1
788	Spruce, white	7.0	Good	1	943	Pine, red	8.5	Good	1
789	Spruce, white	5.0	Good	1	944	Pine, red	6.5	Good	1
790	Oak, red	7.5	Good	1	945	Pine, red	12.0	Good	1
791	Ash, green	10.0	Good	1	946	Pine, red	9.0	Good	1
792	Basswood	13.1	Fair	2	947	Pine, red	8.0	Fair	1
793	Basswood	9.0	Good	1	948	Pine, red	9.0	Good	1
794	Basswood	8.0	Good	1	949	Pine, red	9.5	Good	1
798	Maple, sugar	8.0	Good	1	950	Pine, red	10.0	Good	1
803	Maple, Norway	8.5	Good	1	951	Pine, red	11.5	Good	1
804	Maple, silver	28.0	Fair	4	952	Pine, red	10.0	Good	1
805	Honeylocust	11.5	Good	1	953	Pine, red	10.5	Good	1
806	Spruce, white	13.0	Good	1	954	Pine, red	17.0	Fair	2
807	Basswood	10.0	Good	1	955	Pine, red	7.0	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)

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					

Elms DBH = 1110.0

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	REMARKS

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

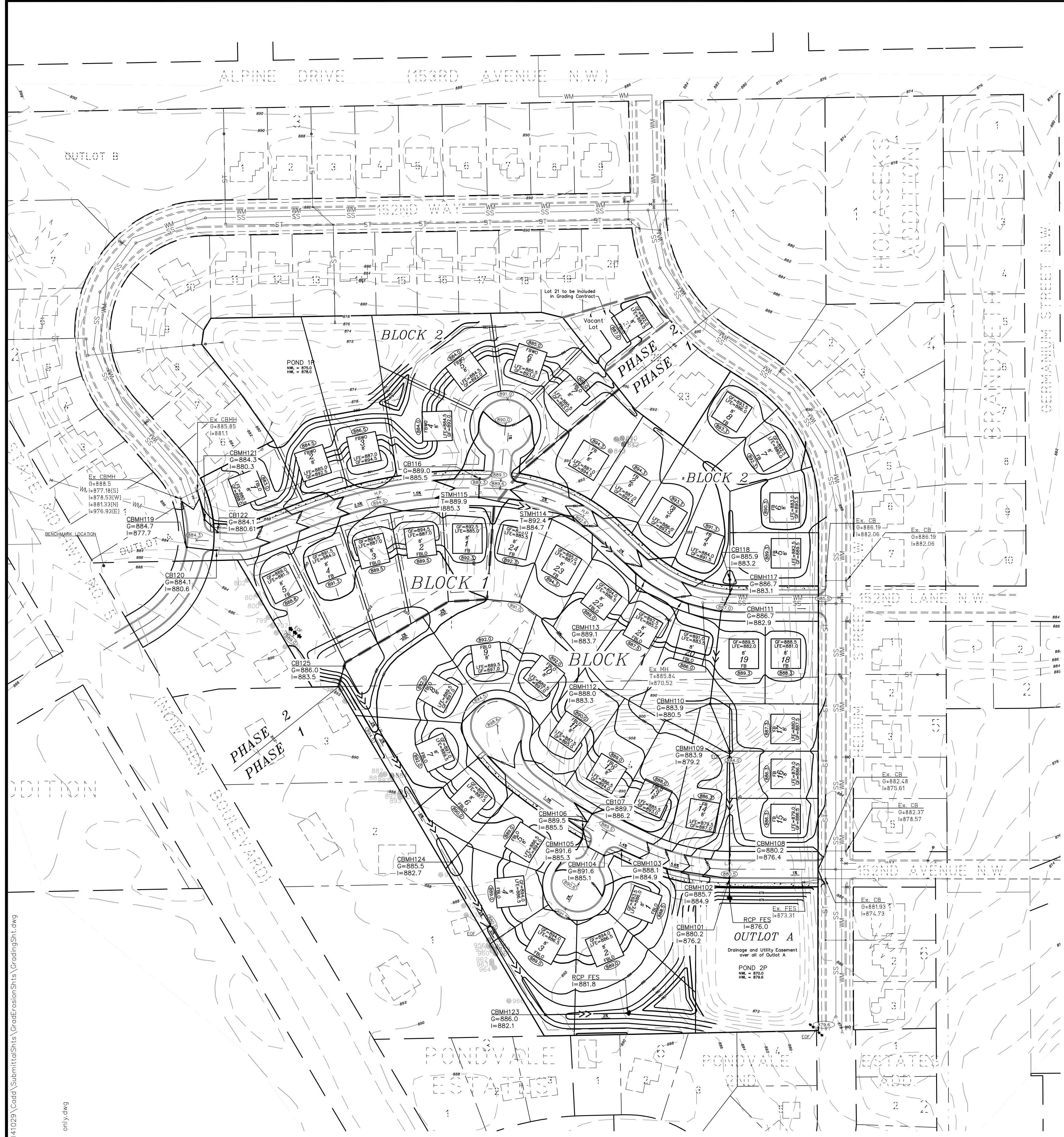
HARVEST ESTATES TREE PRESERVATION PLAN

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

SHEET TITLE: HARVEST ESTATES TREE PRESERVATION PLAN

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

SHEET NUMBER: C-5



LEGEND:

X = 920.8	EXISTING CONTOUR
---	EXISTING GRADE ELEVATION
---	EXISTING TREE LINE
○	EXISTING TREE
—ST—ST	EXISTING STORM SEWER
X—X	EXISTING FENCE
---	PROPOSED CONTOUR
---	PROPOSED STORM SEWER
920.8	PROPOSED GRADE
920.8	RETAINING WALL
→→→	DENOTES AS-BUILT GRADE
→→→	EMERGENCY OVERFLOW

HARVEST ESTATES

City of Ramsey

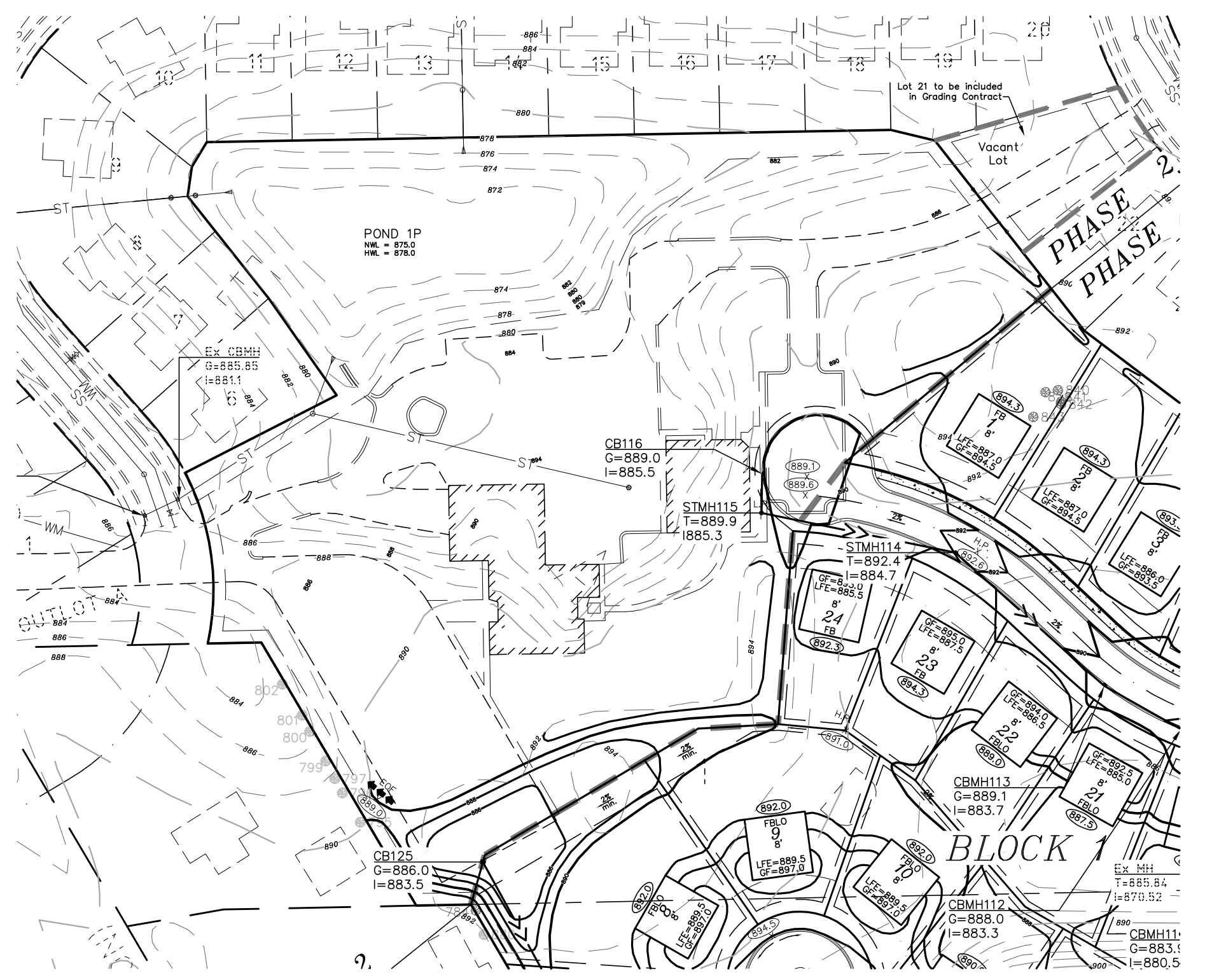
Anoka County, Minnesota

GENERAL GRADING NOTES:

- 1.) UNDERLYING TOPOGRAPHY FROM INFORMATION PROVIDED BY ANOKA COUNTY AND FIELD SHOTS BY HEDLUND ENGINEERING.
- 2.) EXISTING UTILITY LOCATIONS AS-PER PLANS PROVIDED BY THE CITY OF RAMSEY AND FIELD SHOTS BY HEDLUND ENGINEERING.
- 3.) SEE GRADING AND EROSION CONTROL DETAIL SHEET FOR DETAILED INFORMATION.

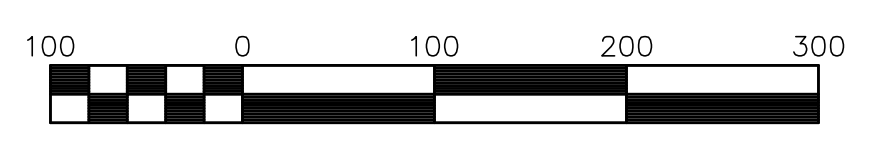
LOT BY LOT TABULATION

LOT	BLOCK	HOUSE TYPE	GARAGE FLOOR ELE	DRIVEWAY GRADE (%)	LOWEST FLOOR ELE	LOWEST OPENING ELE	100 YEAR FLOOD ELE	EMERGENCY OVERFLOW ELE	HIGHEST ANTICIPATED WATER TABLE OR MOTTLED SOIL	LOT	BLOCK	HOUSE TYPE	GARAGE FLOOR ELE	DRIVEWAY GRADE (%)	LOWEST FLOOR ELE	LOWEST OPENING ELE	100 YEAR FLOOD ELE	EMERGENCY OVERFLOW ELE	HIGHEST ANTICIPATED WATER TABLE OR MOTTLED SOIL	
PHASE 1																				
1	1	FBLO	893.5	7.1	886.0	889.2	879.6	879.6		23	1	FB	895.0	6.7	887.5	895.0	N/A	884		
2	1	FBLO	894.0	5.8	886.5	889.7	879.6	879.6		24	1	FB	893.0	5.1	885.5	893.0	N/A	889		
3	1	FBLO	894.0	6.0	886.5	889.7	879.6	879.6		1	2	FB	894.5	5.6	887.0	894.5	N/A	887.5		
4	1	FBLO	894.0	5.8	886.5	889.7	N/A	880.0		2	2	FB	894.5	5.6	887.0	894.5	N/A	887.5		
5	1	FBLO	894.0	8.7	886.5	889.7	N/A	880.0		3	2	FB	893.5	7.6	886.0	893.5	N/A	887.5		
6	1	FBLO	895.0	6.4	887.5	890.7	N/A	880.0		4	2	FB	891.5	7.8	884.0	891.5	N/A	887.5		
7	1	FBLO	897.0	7.3	889.5	892.7	N/A	880.0		5	2	FB	889.5	3.6	882.5	889.5	N/A	887.5		
8	1	FBLO	897.0	6.7	889.5	892.7	N/A	889.0		6	2	FB	890.5	3.3	883.0	890.5	N/A	887.5		
9	1	FBLO	897.0	6.2	889.5	892.7	N/A	889.0		7	2	FB	892.5	5.3	885.0	892.5	N/A	887.5		
10	1	FBLO	897.0	6.7	889.5	892.7	N/A	884.0		8	2	FB	893.5	4.4	886.0	893.5	N/A	887.5		
PHASE 2																				
11	1	FBLO	895.0	6.7	887.5	890.7	N/A	884.0		1	1	FB	892.5	5.6	885.0	892.5	878.0	N/A		
12	1	FBLO	894.0	5.1	886.5	889.7	N/A	884.0		2	1	FB	894.5	5.8	887.0	890.2	878.0	N/A		
13	1	FBLO	893.0	7.8	885.5	888.7	N/A	884.0		3	1	FBLO	894.4	5.6	887.0	890.2	878.0	N/A		
14	1	FB	887.0	6.7	879.5	887.0	N/A	884.0		4	1	FB	891.5	6.0	884.0	891.5	878.0	N/A		
15	1	FB	886.5	5.8	879.0	886.5	N/A	N/A		5	1	FB	889.0	1.6	881.5	889.0	878.0	N/A		
16	1	FB	886.5	4.0	879.0	886.5	N/A	N/A		1	2	FBLO	888.0	4.4	880.5	883.7	878.0	N/A		
17	1	FB	887.5	4.2	880.0	887.5	N/A	884.0		2	2	FBWO	892.5	5.6	885.0	885.0	878.0	N/A		
18	1	FB	888.5	1.3	881.0	888.5	N/A	884.0		3	2	FBWO	894.5	5.6	887.0	887.0	878.0	N/A		
19	1	FB	889.5	5.1	882.5	889.5	N/A	884.0		4	2	FBWO	892.0	4.4	884.5	884.5	878.0	N/A		
20	1	FBLO	891.0	6.9	883.5	887.7	N/A	884.0		5	2	FBWO	892.0	2.9	884.5	884.5	878.0	N/A		
21	1	FBLO	892.5	5.8	885.0	888.2	N/A	884.0		6	2	FBWO	893.0	4.4	885.5	885.5	878.0	N/A		
22	1	FBLO	894.0	8.2	886.5	889.7	N/A	884.0		7	2	FBLO	893.0	6.7	885.5	888.7	878.0	N/A		



TOTAL DISTURBED AREA = 19.1 ACRES
TOTAL IMPERVIOUS SURFACE = 5.6 ACRES

PRELIMINARY
NOT FOR CONSTRUCTION



BENCHMARK
 ANOKA COUNTY BENCHMARK DISK, BENCHMARK NO. 2088,
 LOCATED ON THE NORTHWESTERLY CORNER OF
 15133 NORTHEN BLVD NW, RAMSEY, MN 55303
 ELEVATION = 886.831

Cut/Fill Summary - Preliminary - Run Date - 2-27-15

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Cut-Fill	1.000	1.000	827983.43 Sq. Ft.	43237.64 Cu. Yd.	65380.06 Cu. Yd.	22142.42 Cu. Yd.<Fill>
Totals			827983.43 Sq. Ft.	43237.64 Cu. Yd.	65380.06 Cu. Yd.	22142.42 Cu. Yd.<Fill>

Projects\141029\Road\Submit\Sheets\Grading\GradingSt.dwg
 Date: Mar 05 2015 10:05am
 X-Ref Dwg: 141029\util.dwg
 X-Ref Dwg: 141029\base.dwg
 X-Ref Dwg: 141029\cops.dwg
 X-Ref Dwg: 141029\cops-pin only.dwg

PROJECT NUMBER
141029

REVISIONS

NO.	DATE	BY	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.

Date: _____
 MN. LIC. NO. 19576
 Randall C. Hedlund

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

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

SHEET TITLE:
HARVEST ESTATES GRADING PLAN

PREPARED BY:

DRAWN	CHECKED	DESIGN

SHEET NUMBER
CG-1

DATE: 3/5/2015
 REV: _____

HARVEST ESTATES

City of Ramsey
Anoka County, Minnesota


PROJECT NUMBER	141029
REVISIONS	
REMARKS	
DATE	
BY	

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

PREPARED BY:



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

SHEET TITLE:	HARVEST ESTATES EROSION PLAN	
PREPARED FOR:	NIK MANAGEMENT INC. 11736 177TH St. W. Lakeville, MN 55044 Phone: (952) 236-9424	
DRAWN	CHECKED	DESIGN
---	---	---
SHEET NUMBER		
CE-1		
DATE	3/5/2015	
REV.	---	

GENERAL EROSION CONTROL NOTES:

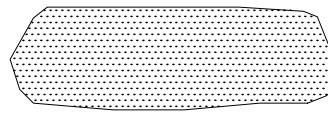
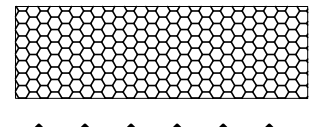



EROSION CONTROL SCHEDULE:

- 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.

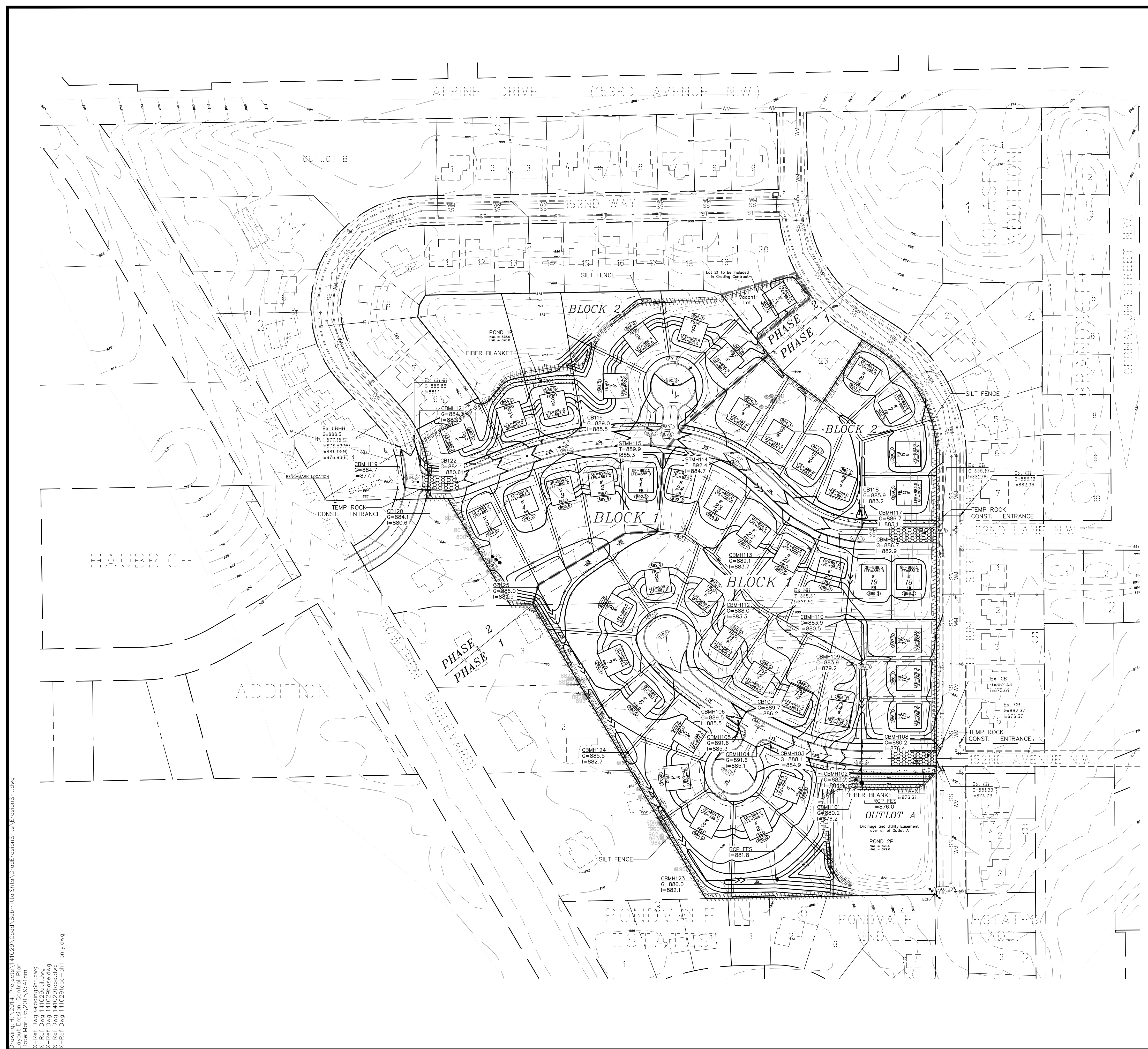
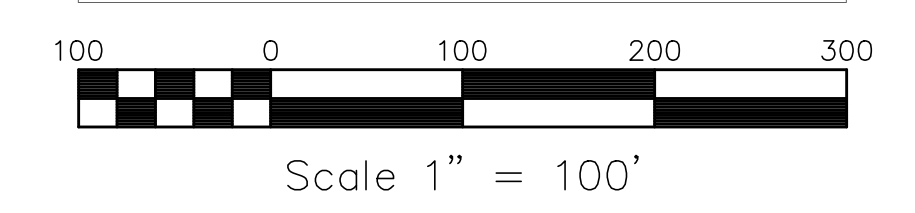
EROSION CONTROL MAINTENANCE PROGRAM:

- 1.) INSPECT CONSTRUCTION SITE ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF MORE THAN 1/2 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.

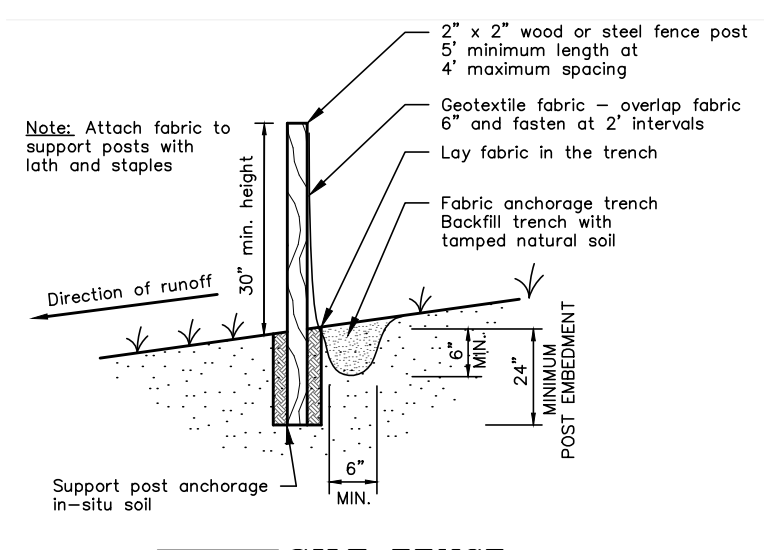
EROSION CONTROL LEGEND:

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

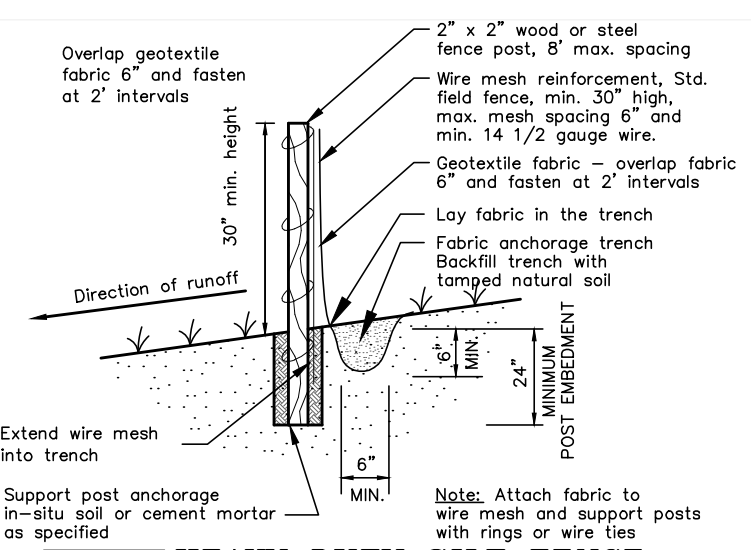
PRELIMINARY
NOT FOR CONSTRUCTION



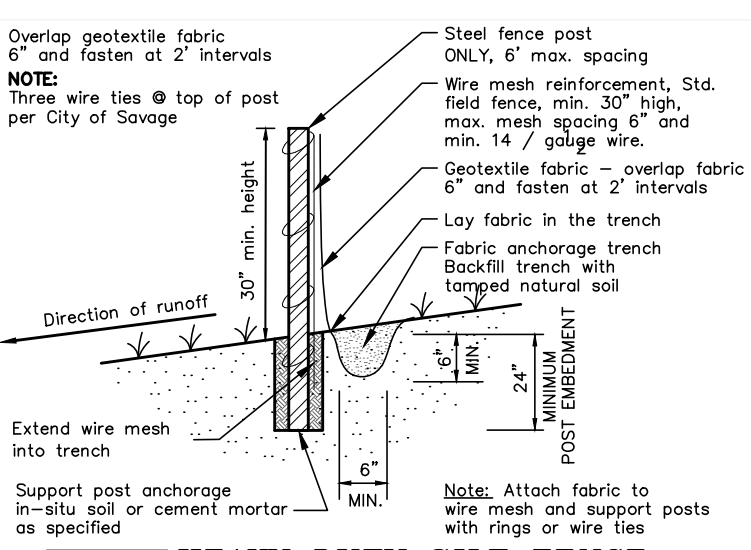
Drawing: H:\2014\Projects\141029\Cadd\Submit\to\Site\Grad\Erosion\Site\ErosionSht.dwg
 Date: Mar 05 2015 9:41 am
 X-Ref Dwg: Cadd\Site.dwg
 X-Ref Dwg: 141029\util.dwg
 X-Ref Dwg: 141029\base.dwg
 X-Ref Dwg: 141029\topo.dwg
 X-Ref Dwg: 141029\topo-ph1 only.dwg



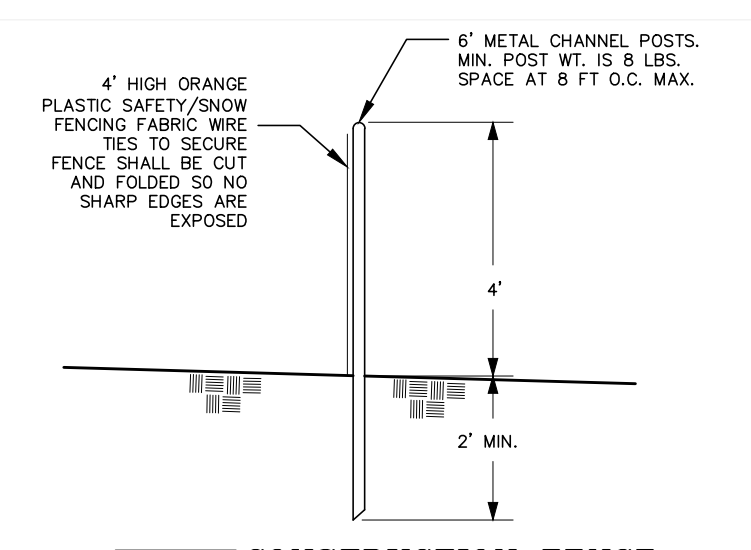
T-1 SILT FENCE
NO SCALE



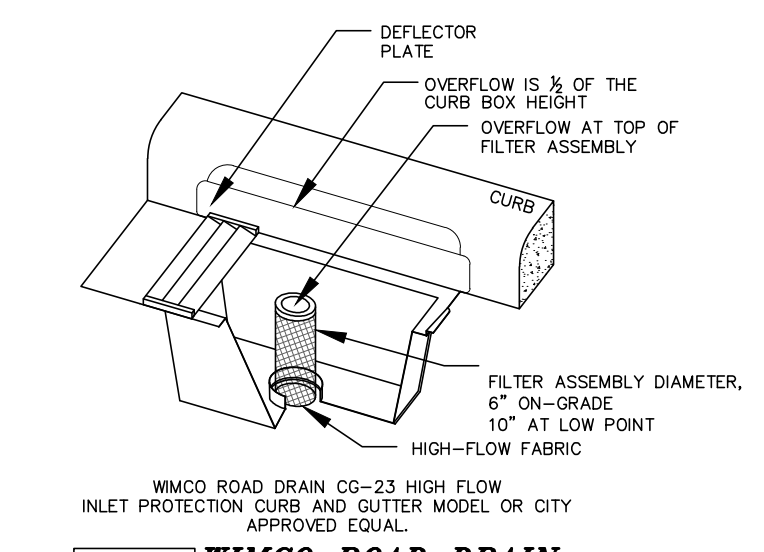
T-2 HEAVY DUTY SILT FENCE
NO SCALE



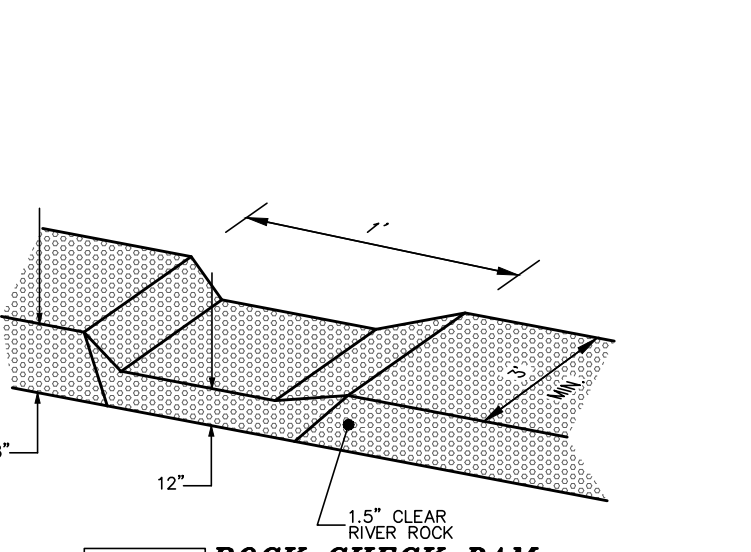
T-3 HEAVY DUTY SILT FENCE
NO SCALE (STEEL POST ONLY)



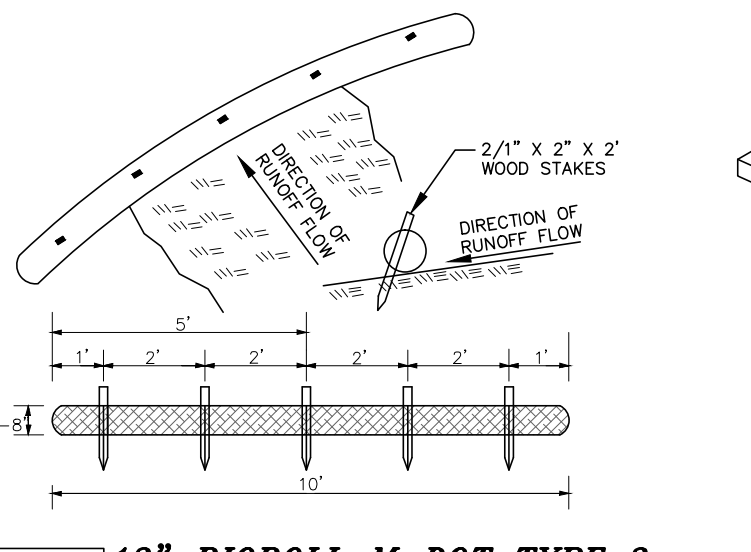
T-4 CONSTRUCTION FENCE
NO SCALE



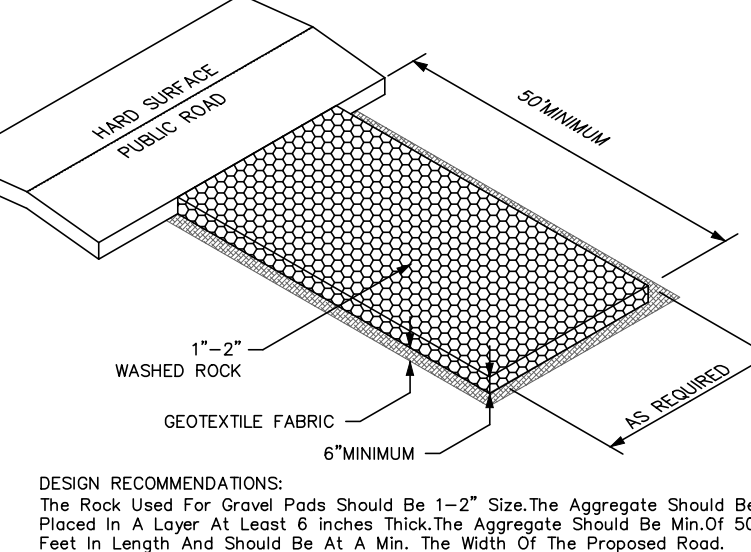
T-5 WINCO ROAD DRAIN
NO SCALE



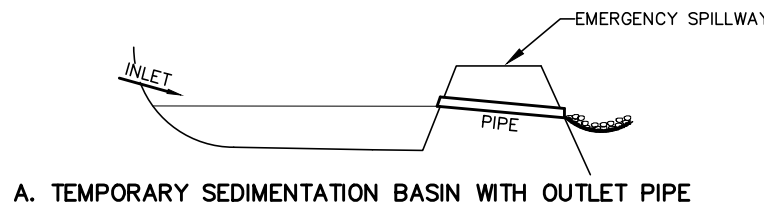
T-6 ROCK CHECK DAM
NO SCALE



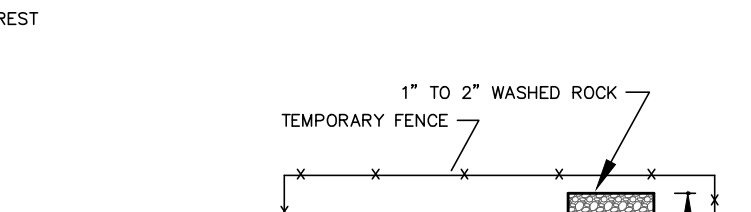
T-7 12\"/>



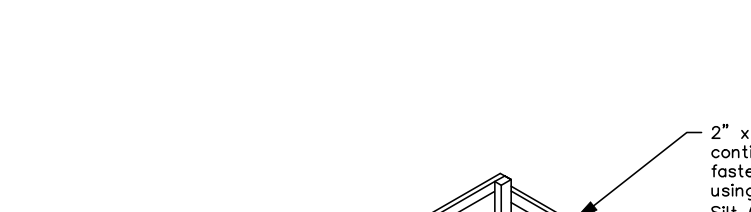
T-8 ROCK CONSTRUCTION ENTRANCE
NO SCALE



A. TEMPORARY SEDIMENTATION BASIN WITH OUTLET PIPE



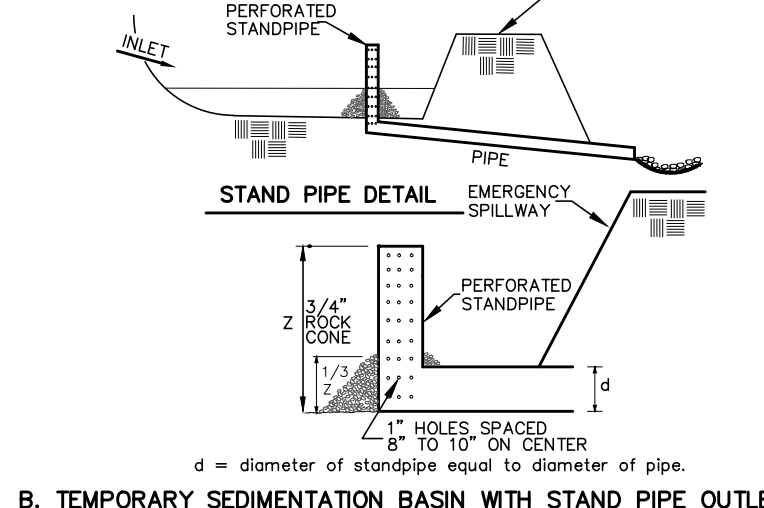
B. TEMPORARY SEDIMENTATION BASIN WITH STAND PIPE OUTLET



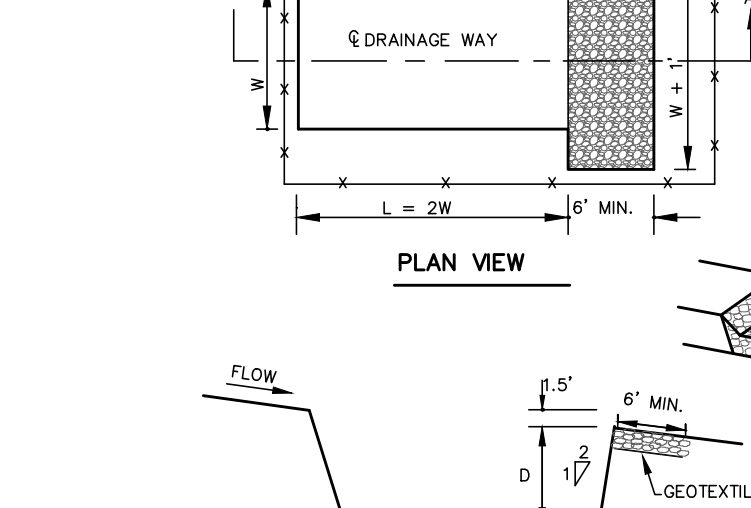
T-9 TEMPORARY SEDIMENTATION BASIN
NO SCALE



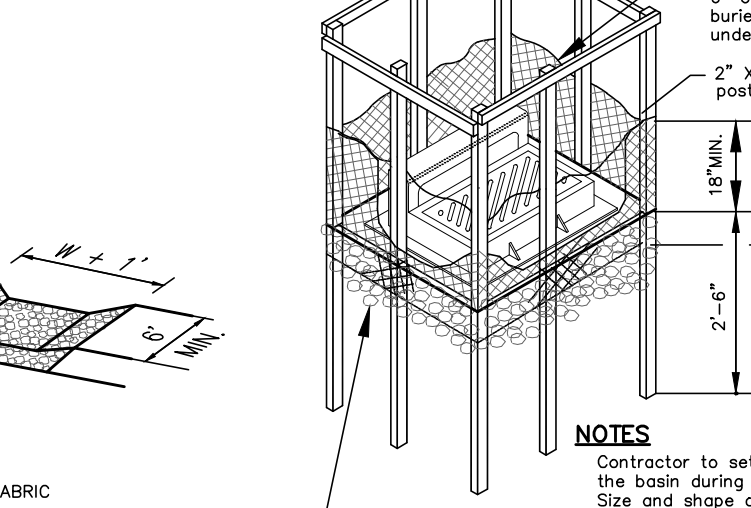
T-10 TEMPORARY SEDIMENT TRAP
NO SCALE



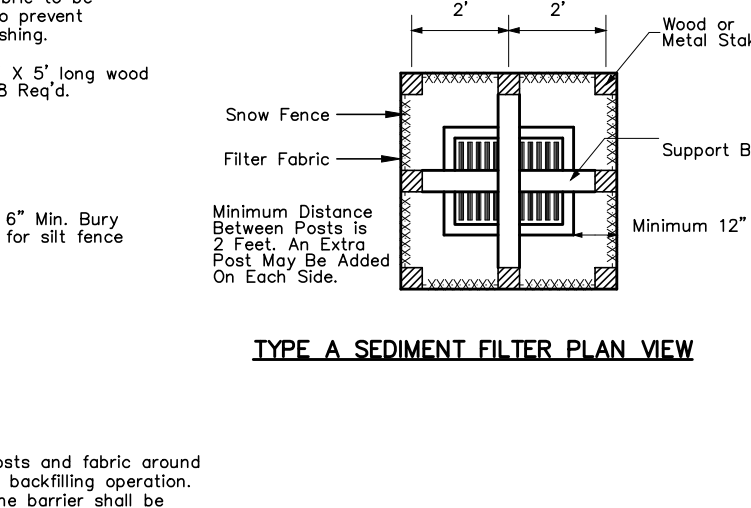
T-11 EROSION CONTROL AROUND CATCH BASINS
NO SCALE



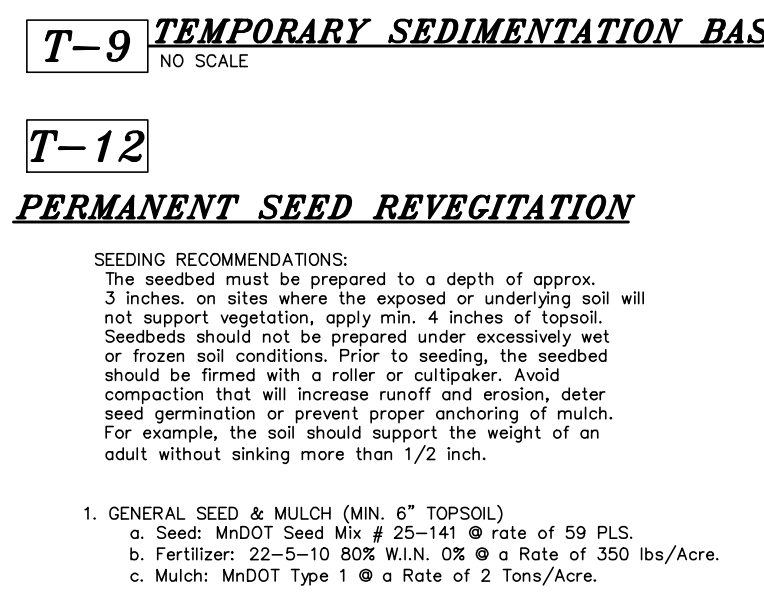
T-12 PERMANENT SEED REVEGETATION
NO SCALE



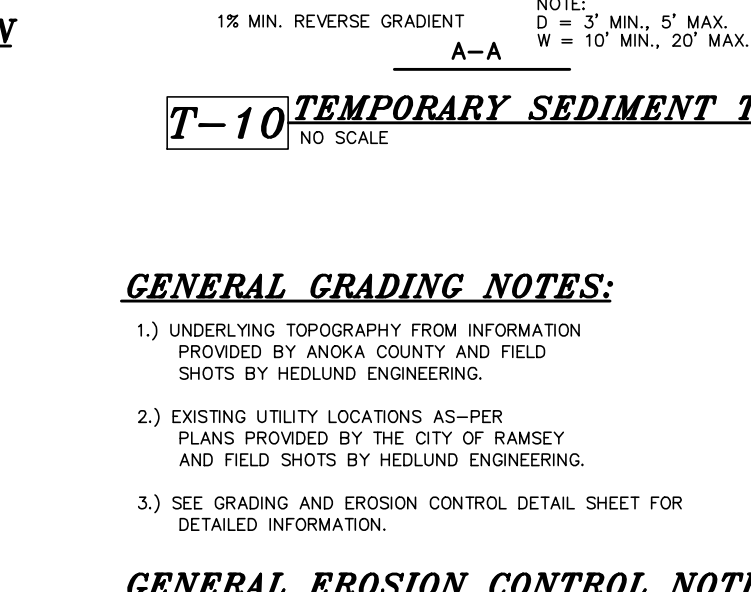
T-13 GENERAL GRADING NOTES
NO SCALE



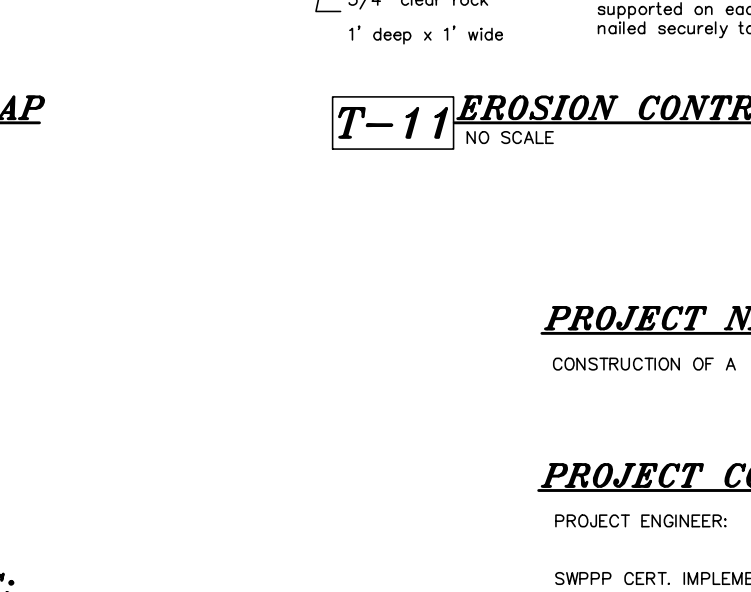
T-14 PROJECT NARRATIVE
NO SCALE



P-1 PERMANENT SOD REVEGETATION
NO SCALE



P-2 PERMANENT SEED REVEGETATION
NO SCALE



P-3 WETLAND & POND SEED & MULCH
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.

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

PREPARED BY: **HEDLUND SURVEYING**
FLANNING ENGINEERING
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.	
DESIGN	CHECKED	DRAWN
---	---	---
SHEET NUMBER		
CE-2		
DATE	3/5/2015	
REV.	---	