

## Minnesota Wetland Conservation Act Notice of Application

<b>Local Government Unit:</b> City of Plymouth	<b>County:</b> Hennepin
<b>Applicant Name:</b> Amy Riegel	<b>Applicant Representative:</b>
<b>Project Name:</b> 2021 Pond Maintenance Project	
<b>LGU Project No. (if any):</b> 2021-01	
<b>Date Complete Application Received by LGU:</b> 2/12/2021	
<b>Date this Notice was Sent by LGU:</b> 2/12/2021	
<b>Date that Comments on this Application Must Be Received By LGU<sup>1</sup>:</b> 2/26/2021	

<sup>1</sup> minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications

**WCA Decision Type** - check all that apply

<input type="checkbox"/> Wetland Boundary/Type	<input type="checkbox"/> Sequencing	<input type="checkbox"/> Replacement Plan	<input type="checkbox"/> Bank Plan (not credit purchase)
<input checked="" type="checkbox"/> No-Loss (8420.0415)		<input type="checkbox"/> Exemption (8420.0420)	
Part: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input checked="" type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H		Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9	

**Replacement Plan Impacts** (replacement plan decisions only)

<b>Total WCA Impact Area Proposed:</b>
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**Application Materials**

<input checked="" type="checkbox"/> Attached: 2021 Pond Maintenance Improvements, City Project No. WR219001 – Plan Sets	<input checked="" type="checkbox"/>
<b>Aerial Photo Review</b>	
Other <sup>1</sup> (specify): <b>The Applicant is proposing to conduct maintenance on 2 water quality ponds to remove deposited sediments and restore water quality treatment capacity within the basins. The applicant is proposing to conduct this work under No-Loss Part E “Excavation limited to removal of deposited sediment in wetlands that are presently utilized as storm water management basins, or excavation and removal of contaminated substrate, when the excavated area is limited to the minimum dimensions necessary for achieving the desired purpose and stabilized to prevent water quality degradation.”</b>	

<sup>1</sup> Link to ftp or other accessible file sharing sites is acceptable.

**Comments on this application should be sent to:**

<b>LGU Contact Person:</b> Ben Scharenbroich, Water Resources Supervisor
<b>E-Mail Address:</b> bscharenbroich@plymouthmn.gov
<b>Address and Phone Number:</b> 3400 Plymouth Blvd, Plymouth, MN 55447, 763-509-5527
<b>Decision-Maker for this Application:</b>
<input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other (specify):

**Notice Distribution (include name)**


*Required on all notices:*

<input checked="" type="checkbox"/> SWCD TEP Member: <b>Ms. Stacey Lijewski, HCA, 701 Fourth Avenue South, Suite 700, Minneapolis, MN 55415-1600</b>
<input checked="" type="checkbox"/> BWSR TEP Member: <b>Ben Carlson, BWSR, 520 Lafayette Road North, St. Paul, MN 55401</b>
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):
<input checked="" type="checkbox"/> DNR Representative: <b>Leslie Parris, MnDNR, 1200 Warner Road, St. Paul, MN 55106</b> <b>Lucas Youngsma, MnDNR, 1200 Warner Road, St. Paul, MN 55106</b>
<input type="checkbox"/> Watershed District or Watershed Mgmt. Org.: <b>Judie Anderson, ECWMC, 3235 Fernbrook Ln N, Plymouth, MN 55447</b> <b>Laura Jester, BCWMC, 16145 Hillcrest Lane, Eden Prairie MN 55346</b>

<input checked="" type="checkbox"/> Applicant (notice only): <b>Amy Riegel, City of Plymouth, 3400 Plymouth Blvd Plymouth, MN 55447</b>	<input type="checkbox"/>
Agent/Consultant (notice only):	

*Optional or As Applicable:*

<input checked="" type="checkbox"/> Corps of Engineers: <b>US Army Corps of Engineers</b> <b>St. Paul District, ATTN: OP-R</b> <b>180 Fifth St. E., Suite 700</b> <b>St. Paul, MN 55101-1678</b>	
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):	
<input type="checkbox"/> Members of the Public (notice only):	<input type="checkbox"/> Other:

<b>Signature:</b> 	<b>Date:</b> 02/12/2021
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**This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.**

PLAN SYMBOLS

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT-OF-WAY LINE
- PRESENT RIGHT-OF-WAY LINE
- CONTROL OF ACCESS LINE
- PROPERTY LINE (Except Land Lines)
- VACATED PLATTED PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT-OF-WAY LINE
- RIVER OR CREEK
- DRY RUN
- DRAINAGE DITCH
- DRAIN TILE
- CULVERT
- DROP INLET
- GUARD RAIL
- PRIVATE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SNOW FENCE
- STONE WALL OR FENCE
- HEDGE
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- MEANDER CORNER
- SPRINGS
- MARSH
- TIMBER ORCHARD
- BRUSH NURSERY
- CATCH BASIN
- FIRE HYDRANT
- GATE VALVE
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- BUILDING (One Story Frame)
  - F-FRAME C-CONCRETE
  - S-STONE T-TILE
  - B-BRICK ST-STUCCO
- IRON PIPE OR ROD
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- GRAVEL PIT
- ROCK QUARRY
- MAILBOX
- SIGN
- UTILITY SYMBOLS
  - POWER POLE LINE
  - TELEPHONE OR TELEGRAPH POLE LINE
  - JOINT TELEPHONE AND POWER ON POWER POLES
  - ON TELEPHONE POLES
  - POWER POLE
  - ANCHOR
  - STEEL TOWER
  - STREET LIGHT
  - PEDESTAL (TELEPHONE CABLE TERMINAL)
  - GAS MAIN
  - WATER MAIN
  - CONDUIT
  - TELEPHONE CABLE IN CONDUIT
  - ELECTRIC CABLE IN CONDUIT
  - TELEPHONE MANHOLE
  - ELECTRIC MANHOLE
  - BURIED TELEPHONE CABLE
  - BURIED ELECTRIC CABLE
  - BURIED TELEVISION CABLE
  - BURIED FIBER OPTIC
  - SEWER, (SANITARY)
  - SEWER, (STORM)
  - SEWER MANHOLE



# CITY OF PLYMOUTH

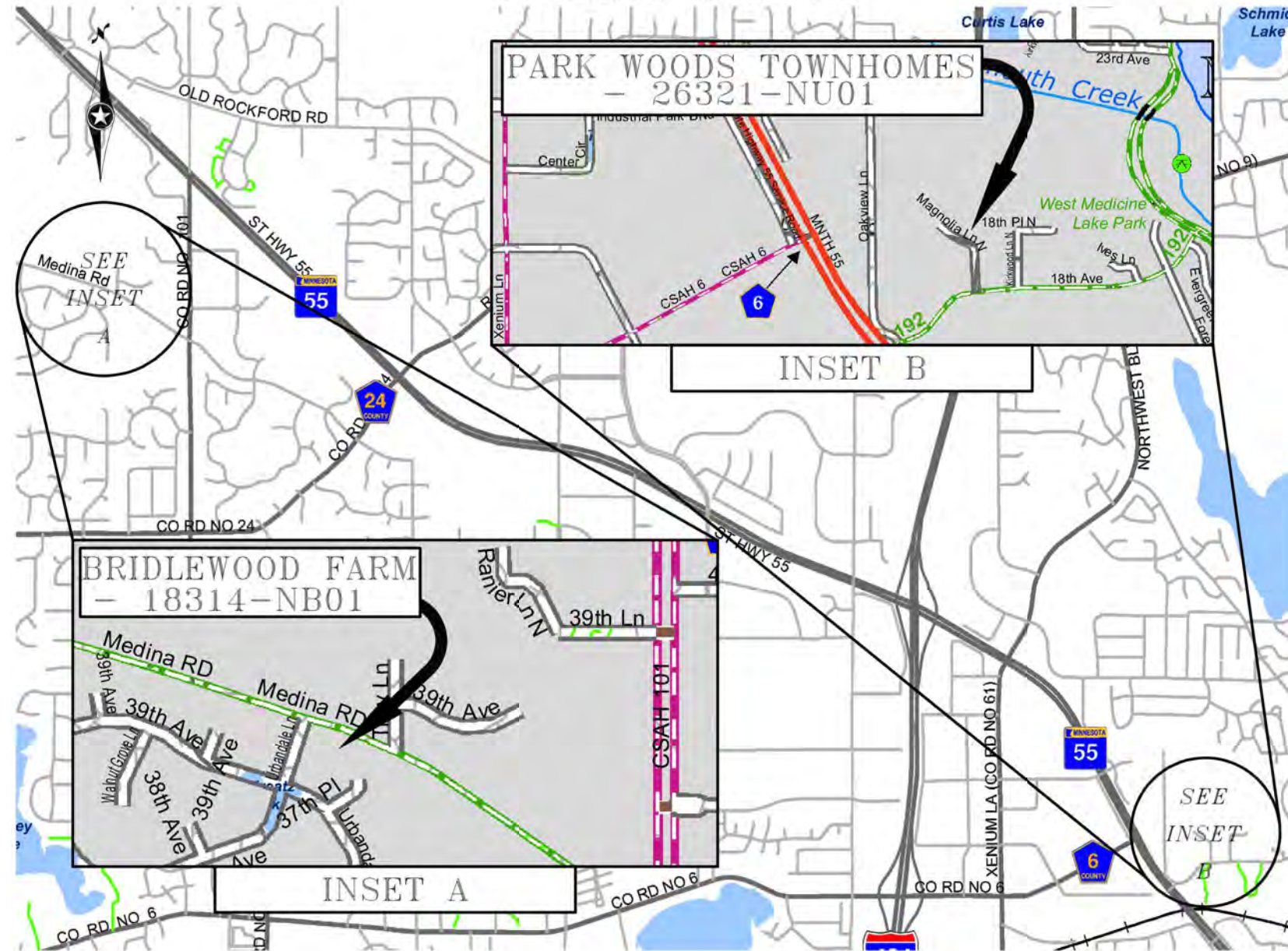
HENNEPIN COUNTY, MINNESOTA

CONSTRUCTION PLANS FOR :

POND & DRAINAGE IMPROVEMENTS.

## 2021 POND MAINTENANCE IMPROVEMENTS

CITY PROJECT NO. WR219001



GOVERNING SPECIFICATIONS:

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION THE MOST CURRENT, "STANDARD SPECIFICATIONS FOR CONSTRUCTION" THE MOST CURRENT CITY OF PLYMOUTH, "ENGINEERING GUIDELINES", AND THE CONTRACT DOCUMENTS, INCLUDING THE SPECIAL PROVISIONS, SHALL GOVERN. ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL QUALITY D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

GOPHER STATE ONE CALL: (651) 454-0002

NOTE:

THE EXACT LOCATION OF UNDERGROUND UTILITIES SUCH AS GAS, TELEPHONE, WATER, ETC. ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITIES BEFORE COMMENCING EXCAVATION.

INDEX:

SHEET NO.	SHEET DESCRIPTION
1	TITLE
2	NOTES & DETAILS
3	BRIDLEWOOD FARM - 18314-NB01
4	PARK WOODS TOWNHOMES - 26321-NU01

THIS PLAN SET CONTAINS 4 SHEETS

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.

ENGR: *Christopher D. McKenzie*  
CHRISTOPHER D. MCKENZIE, PE

Reg. No. 48260 Date 2/5/2021



CITY PROJECT NO.  
WR219001

SHEET  
1  
OF  
4

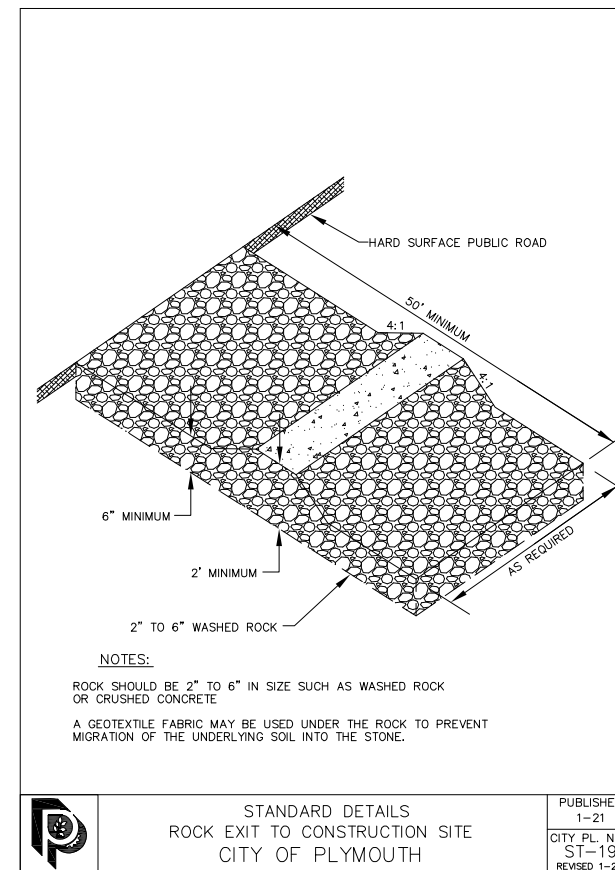
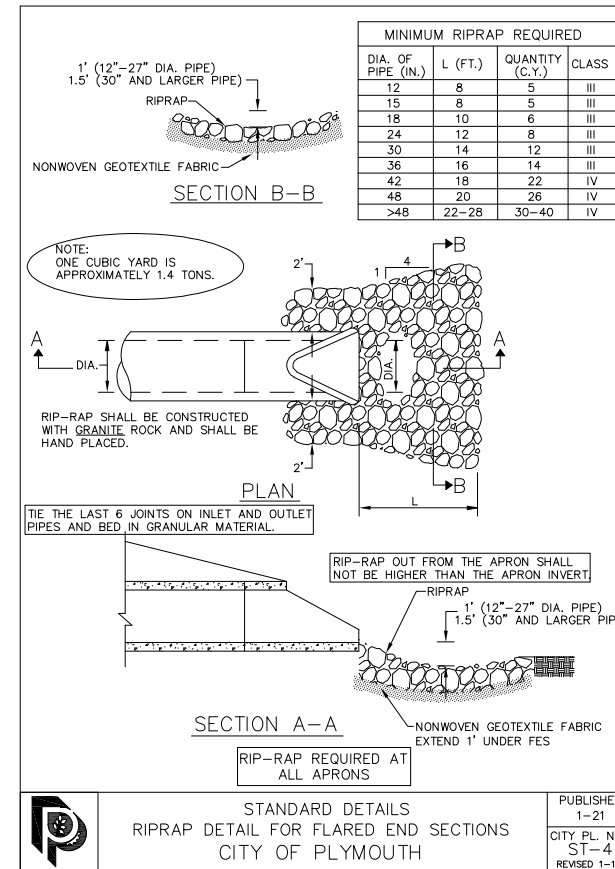


# GENERAL NOTES

1. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL QUALITY D, GENERATED FROM A GOPHER STATE ONE CALL DESIGN LOCATE TICKET. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL BEFORE COMMENCING ANY EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGED UTILITIES.
2. ALL EXCESS EXCAVATED MATERIAL IS THE PROPERTY OF THE CONTRACTOR. CONTRACTOR MUST PROVIDE THE CITY THE ADDRESS OF LOCATION EXCESS MATERIAL IS HAULED TO.
3. CONTRACTOR MUST MAINTAIN EROSION CONTROL FOR THE ENTIRE PROJECT.
4. ACCESS TO LOCAL RESIDENCES MUST BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.
5. A MINIMUM OF 48 HRS. NOTICE IS REQUIRED FOR ALL STAKING REQUESTS.
6. THE MOST CURRENT CITY OF PLYMOUTH ENGINEERING STANDARD DETAIL SPECIFICATION FOR SEWER, WATER, STORM SEWER, & STREETS APPLY TO THIS PROJECT.
7. NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS MARKED BY THE CITY OF PLYMOUTH FOR REMOVAL.
8. TRAFFIC CONTROL MUST BE PROPERLY MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE MNDOT TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS BOOKLET.
9. ACTUAL EXCAVATION LOCATIONS SHALL BE MARKED IN FIELD BY ENGINEER.
10. CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING.
11. PROPOSED SITE ACCESS IS SHOWN ON PLAN. CONTRACTOR SHALL NEGOTIATE WITH HOMEOWNER IF DIFFERENT ACCESS IS DESIRED.
12. CONTRACTOR SHALL USE DESIGNATED PROJECT ACCESS POINTS UNLESS ALTERNATE ACCESS POINTS ARE APPROVED BY ENGINEER.
13. EXACT PROJECT ACCESS POINTS SHALL BE MARKED IN THE FIELD BY ENGINEER.
14. SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES MUST BE CLEANED DAILY (OR MORE FREQUENTLY, AS NECESSARY) FROM PAVED ROADWAY SURFACES THROUGHOUT THE DURATION OF CONSTRUCTION.
15. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE, BUT IN NO CASE LATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.
16. PROVIDE VEGETATIVE COVER CONSISTING OF MNDOT SEED MIX 33-261 SPREAD AT 1.5 TIMES THE USUAL RATE PER ACRE. SIDE SLOPES, ONE-FOOT BELOW NWL AND ABOVE SHALL BE SEEDED WITH MNDOT SEED MIX 33-261 SPREAD AT 1.5 TIMES THE USUAL RATE PER ACRE.
17. PLACE EROSION CONTROL BLANKET (NATURAL NETTING, MNDOT CATEGORY 20) ON POND SLOPES, ONE-FOOT BELOW NWL AND TO THE HWL, AND ON SIDE SLOPES.
18. PLACE NET-FREE WOOD FIBER BLANKET (MNDOT CATEGORY 15) ON DISTURBED TURF AREAS AND SEED WITH MNDOT SEED MIX 25-151 AT THE USUAL RATE.
19. STORM SEWER INLETS SHALL BE PROVIDED WITH DEBRIS GUARDS AND MICROSILT BASINS TO TRAP SEDIMENT AND AVOID POSSIBLE DAMAGE FROM BLOCKAGE. THE SILT SHALL BE REMOVED WHEN NECESSARY, AND AS DIRECTED BY ENGINEER. IF SEDIMENT/SILTATION MEASURES TAKEN ARE NOT ADEQUATE AND RESULT IN DOWNSTREAM SEDIMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT OR DREDGING DOWNSTREAM STORM SEWERS AND PONDS AS NECESSARY, AND AS DIRECTED BY ENGINEER. PRODUCTS TO BE APPROVED BY ENGINEER.
20. NO BID ITEM HAS BEEN PROVIDED FOR DEWATERING AS ALL DEWATERING WORK NECESSARY FOR CONSTRUCTION WILL BE CONSIDERED INCIDENTAL.
21. ALL WATER DISCHARGED FROM DEWATERING OR BASIN-DRAINING MUST BE DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS TO WATERS OF THE STATE, EROSION IN RECEIVING WATERS, INUNDATION OF WETLANDS, OR DAMAGE TO PROPERTIES. APPROPRIATE BMPs MUST BE USED TO TREAT THE WATER PRIOR TO DISCHARGE. THE CONTRACTOR MUST ENSURE THAT DISCHARGE POINTS ARE ADEQUATELY PROTECTED FROM EROSION AND SCOUR BY AN ENERGY DISSIPATION DEVICE.

## EXCAVATION SUMMARY

POND	SUBDIVISION	EXCAVATION VOLUME (CY)
18314-NB01	BRIDLEWOOD FARMS	401
26321-NU01	PARK WOODS TOWNHOMES	1002



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: *Christopher D. McKenzie*  
CHRISTOPHER D. MCKENZIE, PE

Date: 2/5/2021 License#: 48260



PLYMOUTH, MINNESOTA  
2021 POND MAINTENANCE  
PROJECT

NOTES & DETAILS

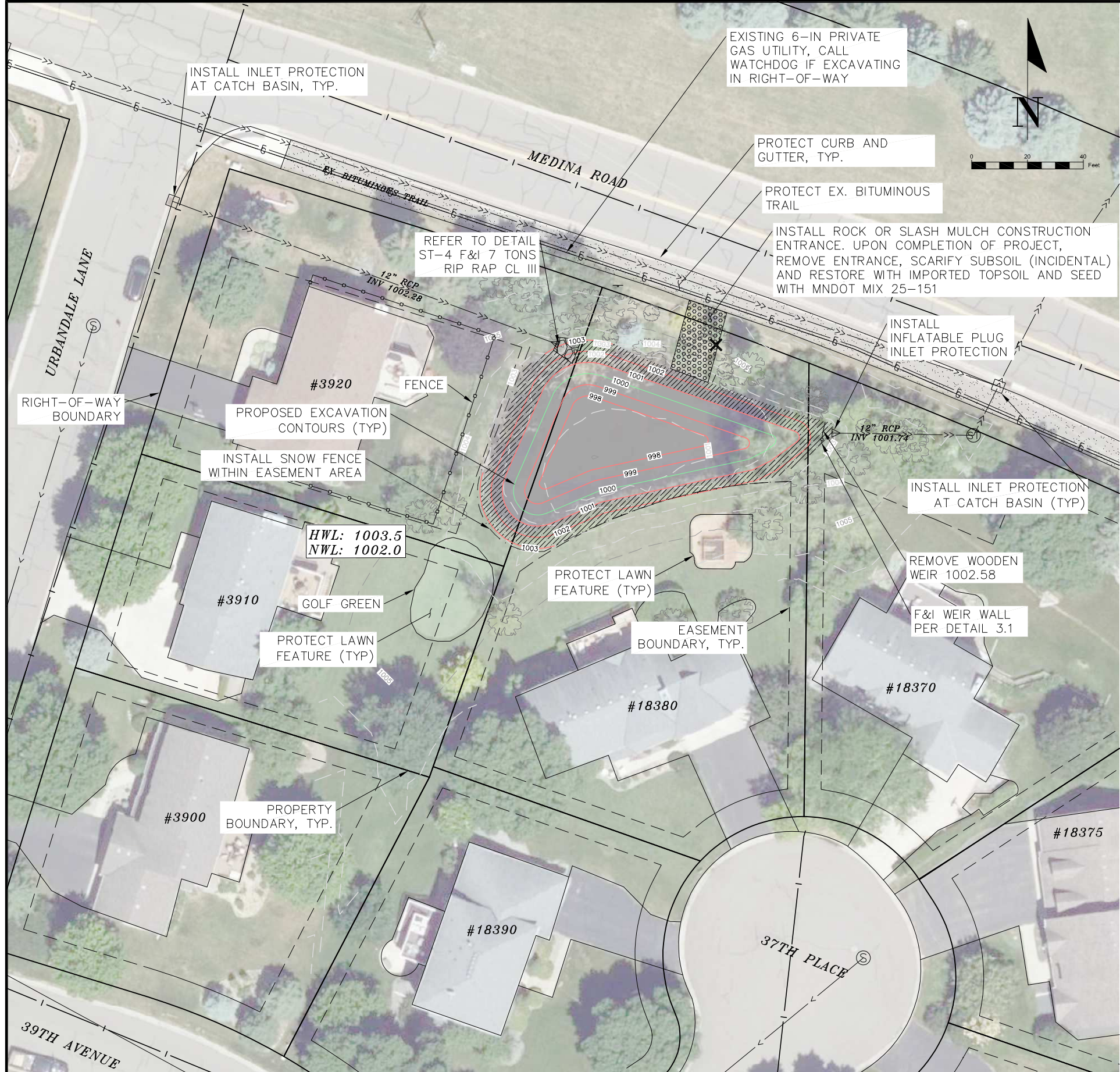
DRAWN BY A. RIEGEL DATE 1-21  
DESIGNED BY G. DEMPSEY DATE 1-21  
CHECKED BY SCHARENBRUCH DATE 1-21  
REVIEWED BY C. MCKENZIE DATE 1-21

CITY PROJECT NO. WR219001

SHEET  
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NO	DATE	BY	CKD	APPR	REVISION




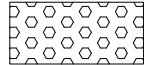

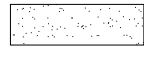

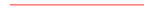
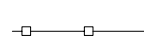





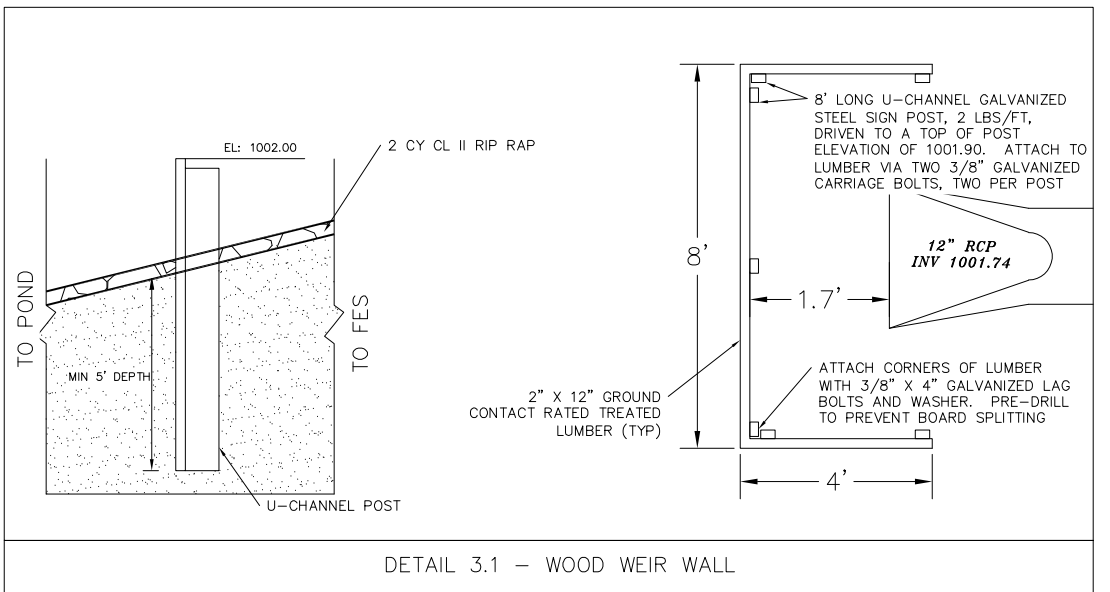
**NOTES**

1. PROTECT ALL TREES THAT ARE NOT MARKED IN THE FIELD FOR REMOVAL. TREES MARKED FOR REMOVAL ON PLANS ARE AN ESTIMATION.
2. TREES AND SHRUBS UNDER 4" DIA. WITHIN CONSTRUCTION LIMITS ARE TO BE REMOVED (INCIDENTAL)
3. REESTABLISH DISTURBED AREA IN AND AROUND THE POND WITH MNDOT MIX 33-261 NATIVE SEED MIX. SEED POND TO 1-FT BELOW THE NWL ELEVATION.
4. DISTURBED AREA IN THE RIGHT-OF-WAY AND FROM ROCK ENTRANCE TO BE SEEDED WITH MNDOT MIX 25-151.
5. CONTRACTOR WILL PROTECT EXISTING CURB AND GUTTER AND EX. BITUMINOUS TRAIL. DAMAGE TO THESE FACILITIES WILL REQUIRE REMOVAL AND REPLACEMENT, AS DETERMINED BY THE ENGINEER.

**APPROXIMATE DISTURBED AREA: 0.17 ACRE**

**LEGEND**

-  RESTORE WITH MNDOT 33-261 NATIVE SEED MIX AND CATEGORY 20 NATURAL NET EROSION CONTROL BLANKET
-  RESTORE CONSTRUCTION ENTRANCE WITH 25-151 SEED MIX AND CATEGORY 20 NATURAL NET EROSION CONTROL BLANKET
-  RESTORE ACCESS ROUTE WITH WITH 25-151 SEED MIX AND CATEGORY 15 NATURAL EROSION CONTROL BLANKET
-  EXISTING BITUMINOUS TRAIL
-  EXISTING CONTOURS
-  PROPOSED CONTOURS
-  PROTECT FENCE
-  CLEAR AND GRUB TREE
-  EXISTING SHRUB
-  INLET PROTECTION



O:\Projects\Current Projects\2020-2029\21-WR219001\2021 Pond Maintenance\Design\2021 Pond Plans.dwg

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: *Christopher D. McKenzie*  
 Date: 2/5/2021 License#: 48260



PLYMOUTH, MINNESOTA  
 2021 POND MAINTENANCE  
 PROJECT

18314-NB01  
 BRIDLEWOOD FARMS  
 45°01'34.5"N 93°30'48"W

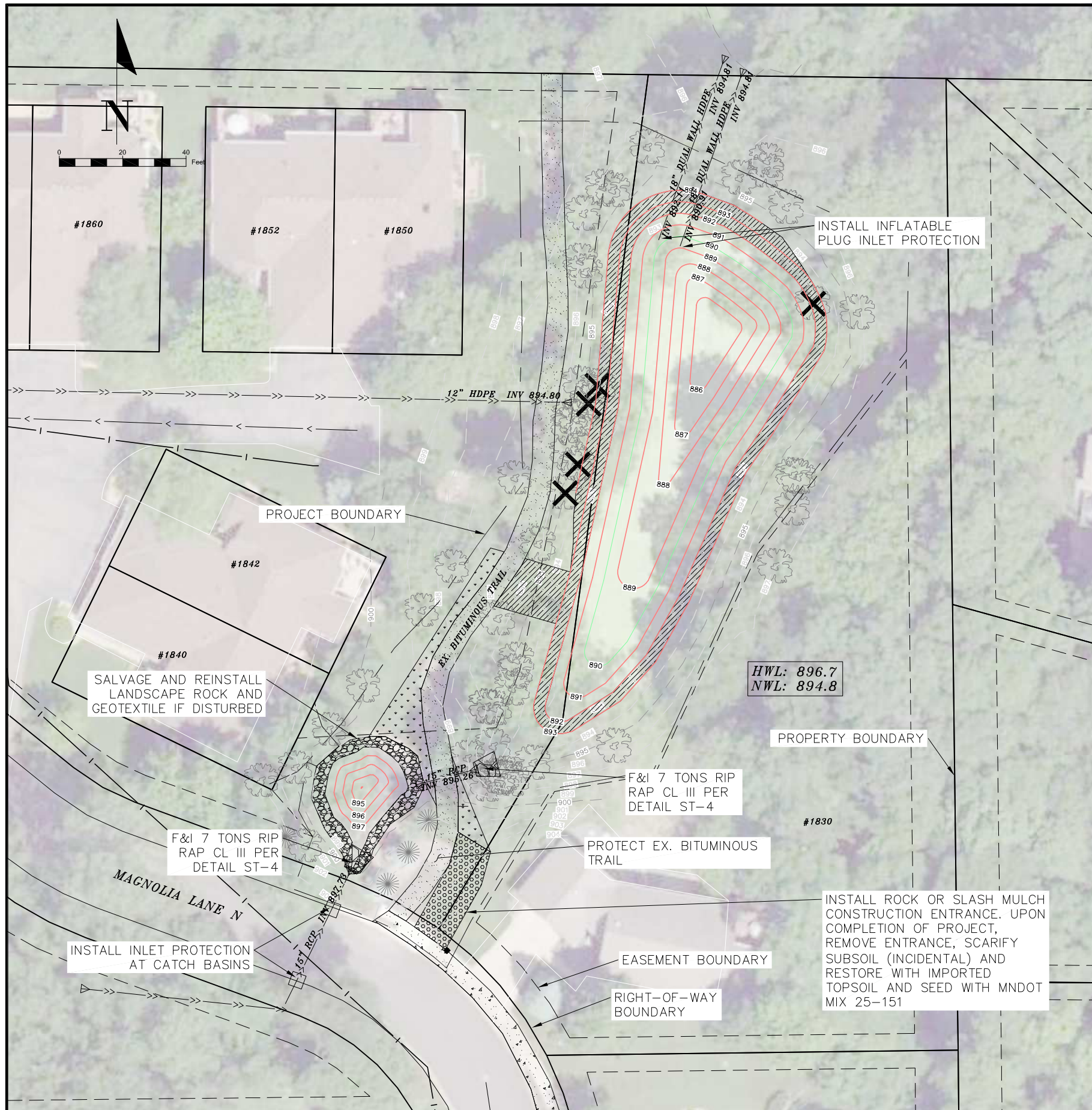
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 DESIGNED BY: G. DEMPSEY DATE: 1-21  
 CHECKED BY: SCHARENBRUCH DATE: 1-21  
 REVIEWED BY: C. MCKENZIE DATE: 1-21  
 CITY PROJECT NO.: WR219001

SHEET  
 3  
 OF  
 4

NO	DATE	BY	CKD	APPR	REVISION



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### NOTES

1. PROTECT ALL TREES THAT ARE NOT MARKED IN THE FIELD FOR REMOVAL. TREES MARKED FOR REMOVAL ON PLANS ARE AN ESTIMATION.
2. TREES AND SHRUBS UNDER 4" DIA. WITHIN CONSTRUCTION LIMITS ARE TO BE REMOVED (INCIDENTAL)
3. REESTABLISH DISTURBED AREA IN AND AROUND THE POND WITH MNDOT MIX 33-261 NATIVE SEED MIX. SEED POND TO 1-FT BELOW THE NWL ELEVATION.
4. DISTURBED AREA IN THE RIGHT-OF-WAY AND FROM ROCK ENTRANCE TO BE SEEDED WITH MNDOT MIX 25-151.
5. CONTRACTOR WILL PROTECT EXISTING CURB AND GUTTER AND EX. BITUMINOUS TRAIL. DAMAGE TO THESE FACILITIES WILL REQUIRE REMOVAL AND REPLACEMENT, AS DETERMINED BY THE ENGINEER.

**APPROXIMATE DISTURBED AREA: 0.34 ACRE**

#### LEGEND

- RESTORE WITH MNDOT 33-261 NATIVE SEED MIX AND CATEGORY 20 NATURAL NET EROSION CONTROL BLANKET
- RESTORE CONSTRUCTION ENTRANCE WITH 25-151 SEED MIX AND CATEGORY 15 NATURAL EROSION CONTROL BLANKET
- RESTORE ACCESS ROUTE WITH WITH 25-151 SEED MIX AND CATEGORY 15 NATURAL EROSION CONTROL BLANKET
- SALVAGE AND REPLACE LANDSCAPING ROCK AND GEOTEXTILE IF DISTURBED. CLEAN ROCK AS DIRECTED BY ENGINEER.
- EXISTING BITUMINOUS TRAIL
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING FENCE
- CLEAR AND GRUB TREE
- EXISTING SHRUB
- INLET PROTECTION

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: 2/5/2021 License#: 48260



PLYMOUTH, MINNESOTA  
 2021 POND MAINTENANCE  
 PROJECT

26321-NU01  
 PARK WOODS TOWNHOMES  
 44°59'60"N 93°26'12"W

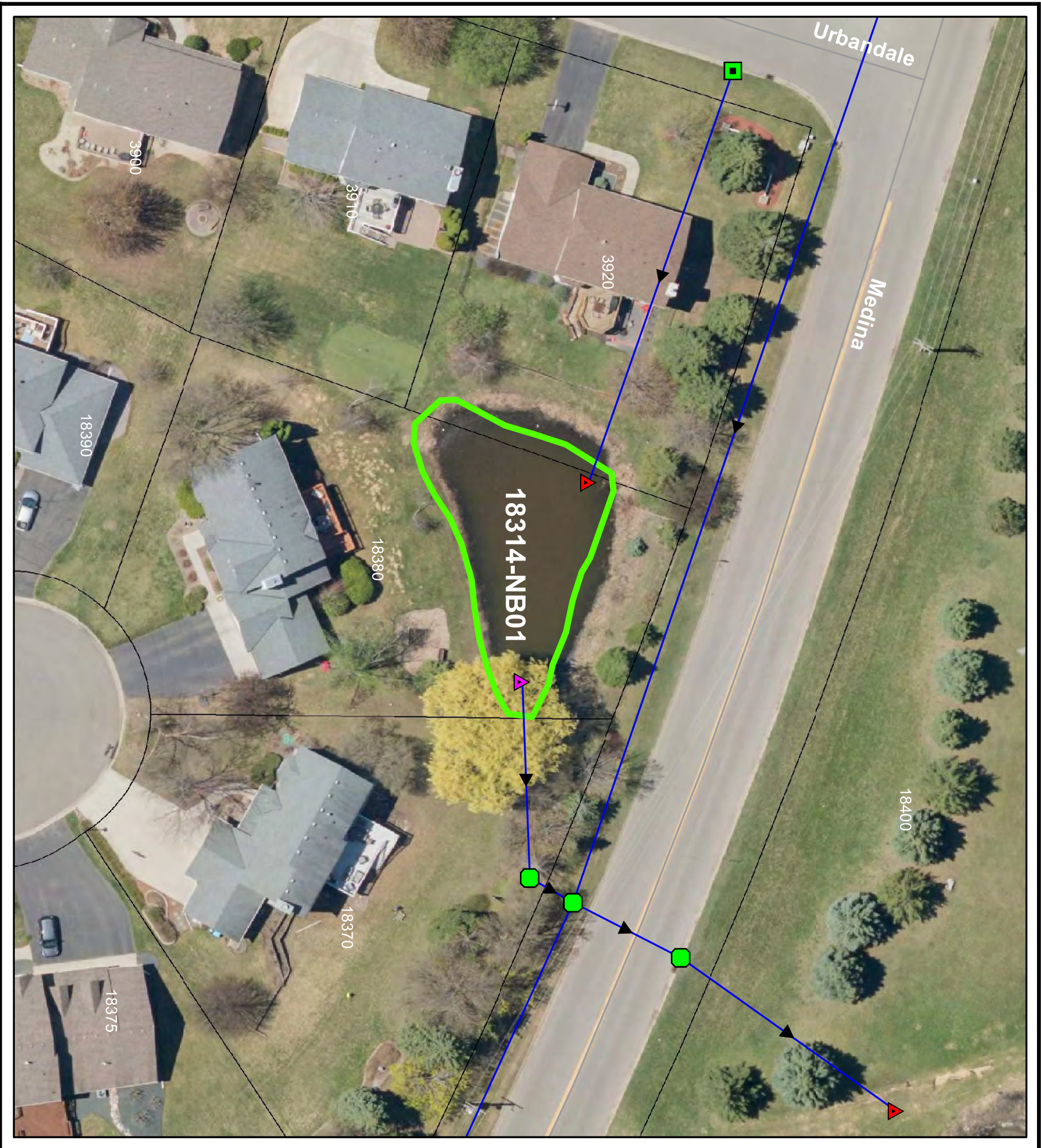
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DESIGNED BY G. DEMPSEY	1-21
CITY PROJECT NO. WR219001	CHECKED BY SCHARENBOICH
	REVIEWED BY C. MCKENZIE
	DATE 1-21

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


NO	DATE	BY	CKD	APPR	REVISION

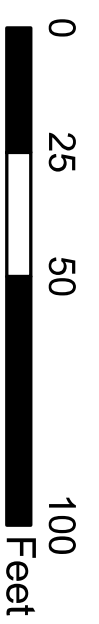


**2018 Aerial**  
**Bridlewood Farms Stormwater Pond**  
**18380 37th Place North**



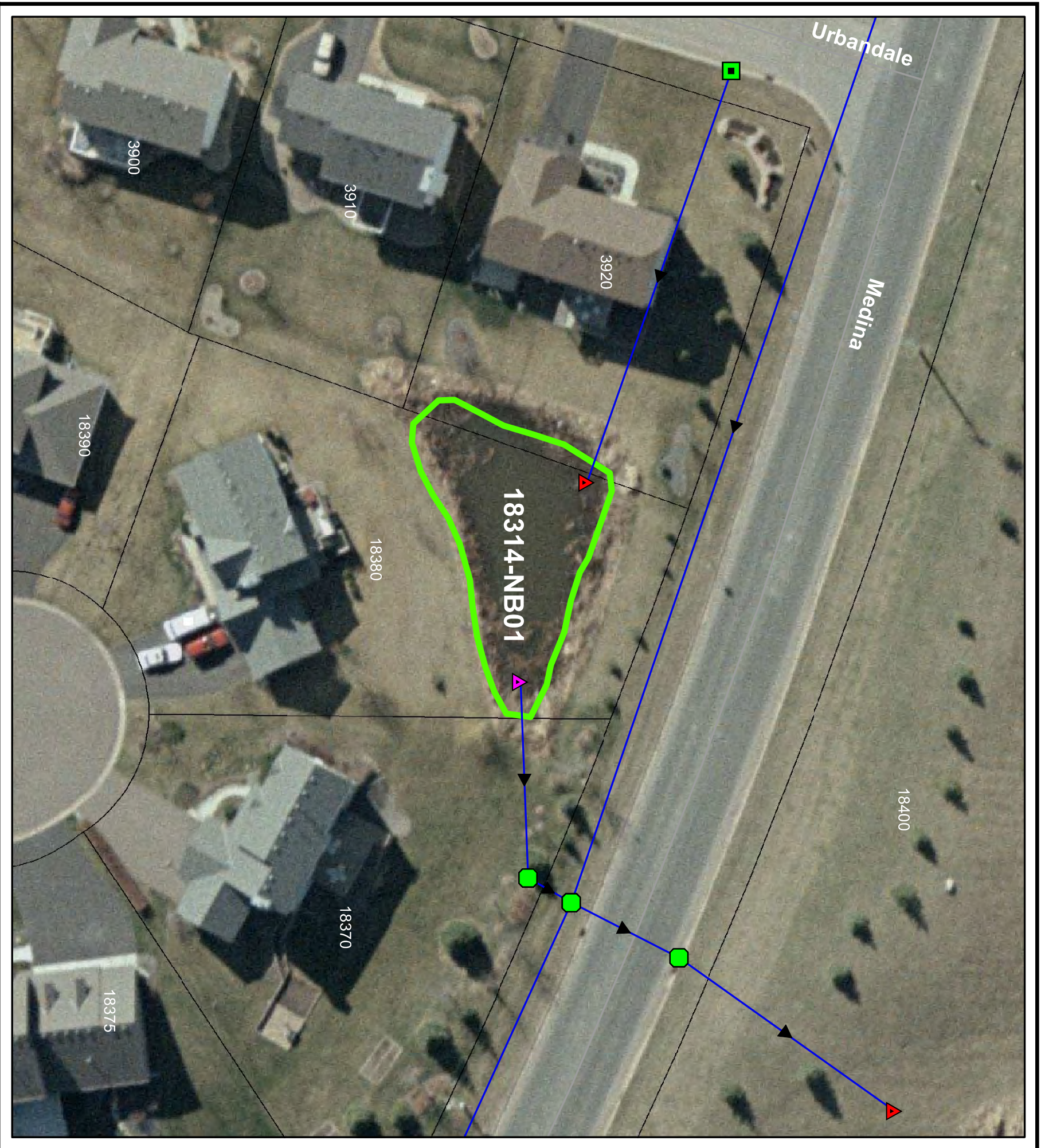
**Legend**

- |  |                 |   |       |   |         |
|--|-----------------|---|-------|---|---------|
|  | BAP             |   | CB    |  | Wetland |
|  | CBMH            |  | Lakes |  | Parcels |
|  | EAP             |   |       |   |         |
|  | Stormwater Pipe |   |       |   |         |












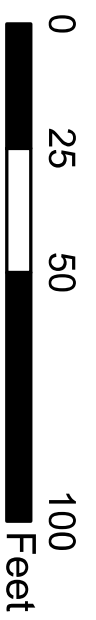


**1999 Aerial**  
**Bridlewood Farms Stormwater Pond**  
**18380 37th Place North**



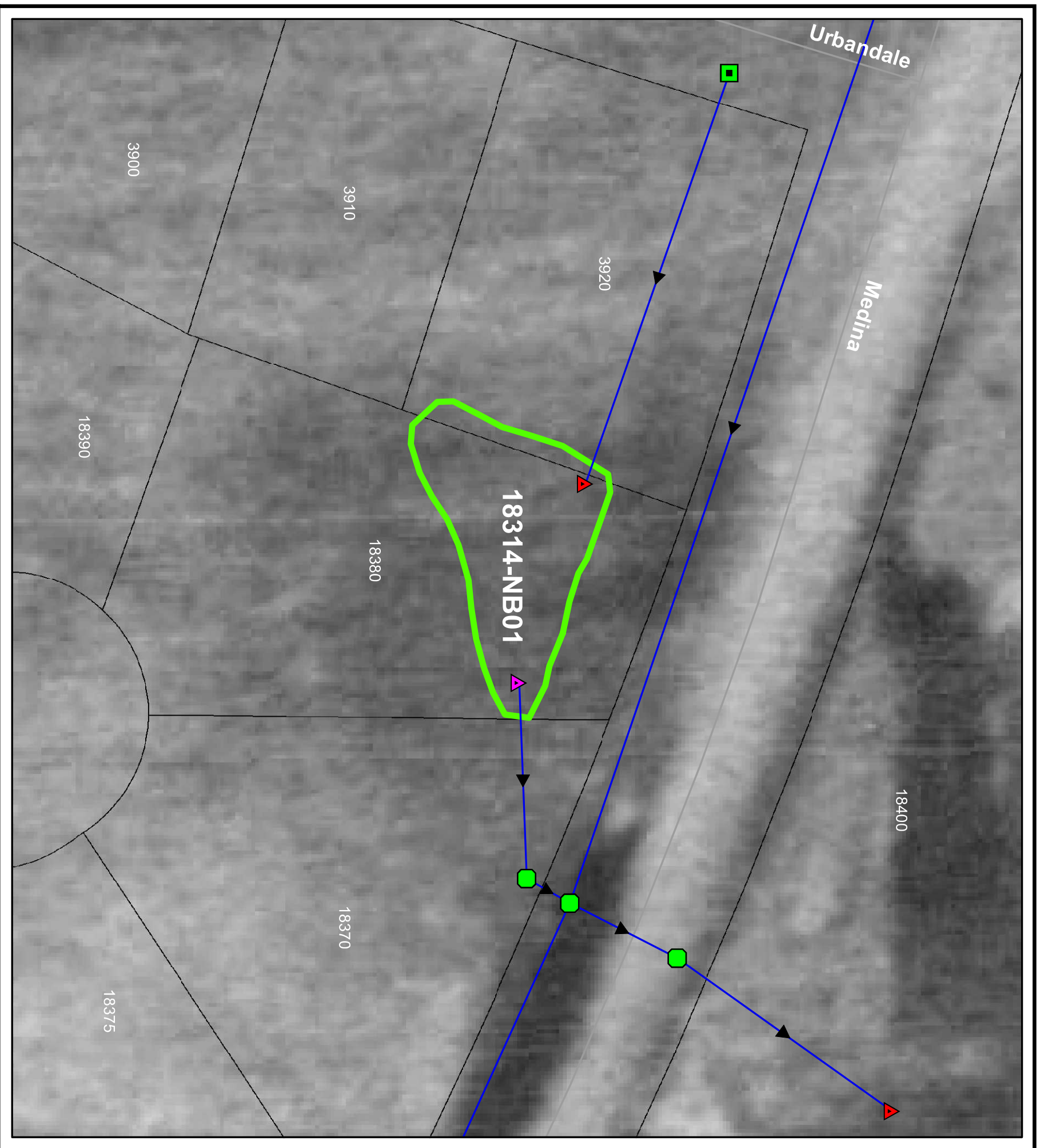
**Legend**

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|---|-----------------|---|---------|---|---------|
|   | BAP             |   | CB      |  | Wetland |
|  | CB              |   | CBMH    |  | Lakes   |
|   | EAP             |  | Parcels |   |         |
|   | Stormwater Pipe |   |         |   |         |












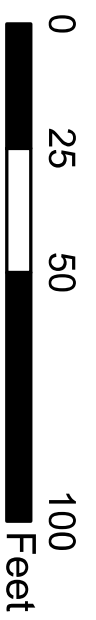


**1987 Aerial**  
**Bridlewood Farms Stormwater Pond**  
**18380 37th Place North**



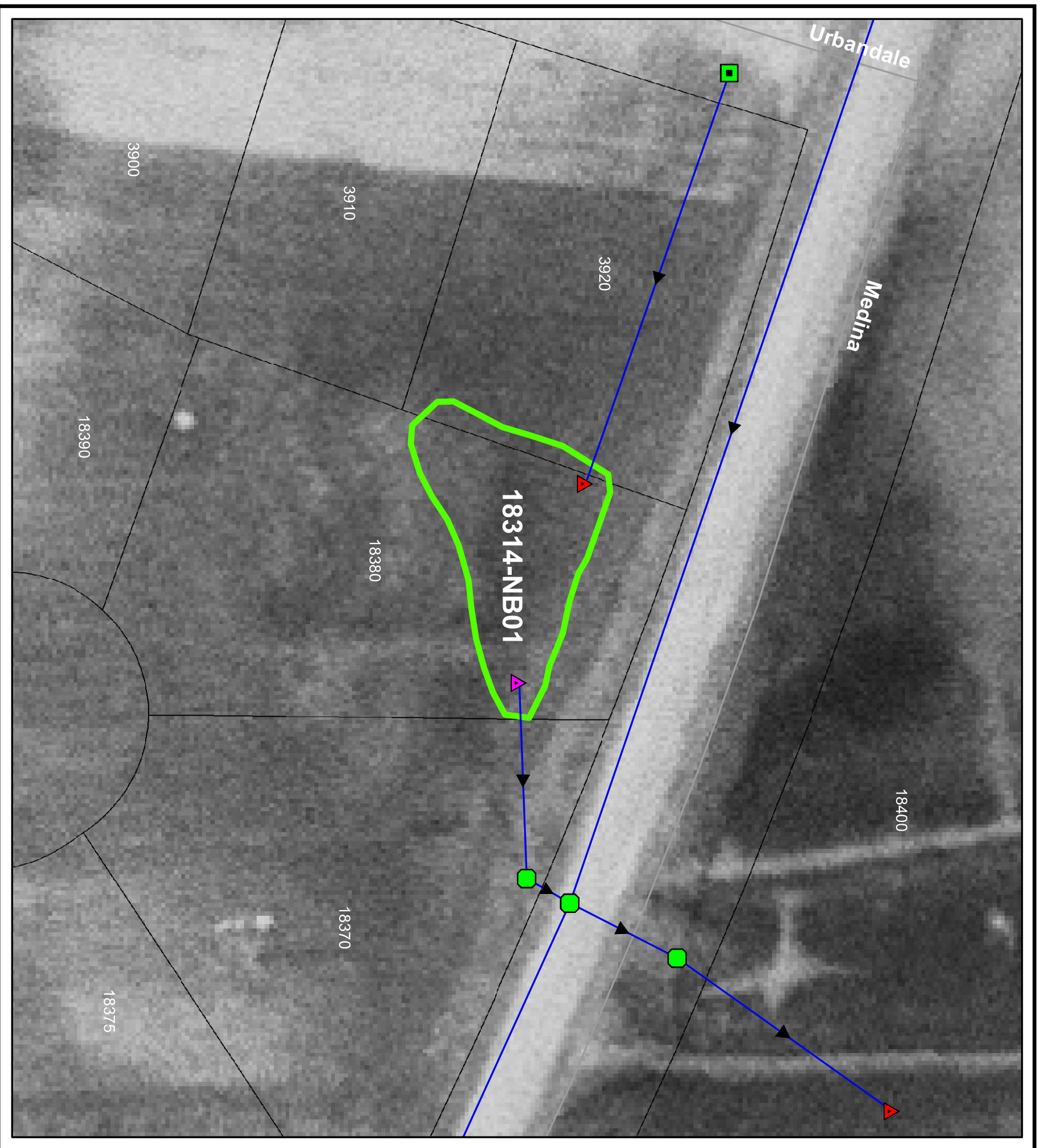
**Legend**

- |   |                 |   |         |   |         |
|---|-----------------|---|---------|---|---------|
|   | BAP             |   | CB      |  | Wetland |
|  | CB              |  | CBMH    |  | Lakes   |
|  | EAP             |  | Parcels |   |         |
|   | Stormwater Pipe |   |         |   |         |

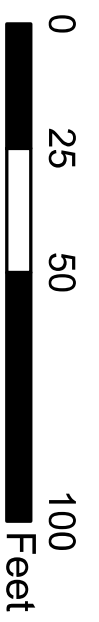




**1947 Aerial**  
**Bridlewood Farms Stormwater Pond**  
**18380 37th Place North**

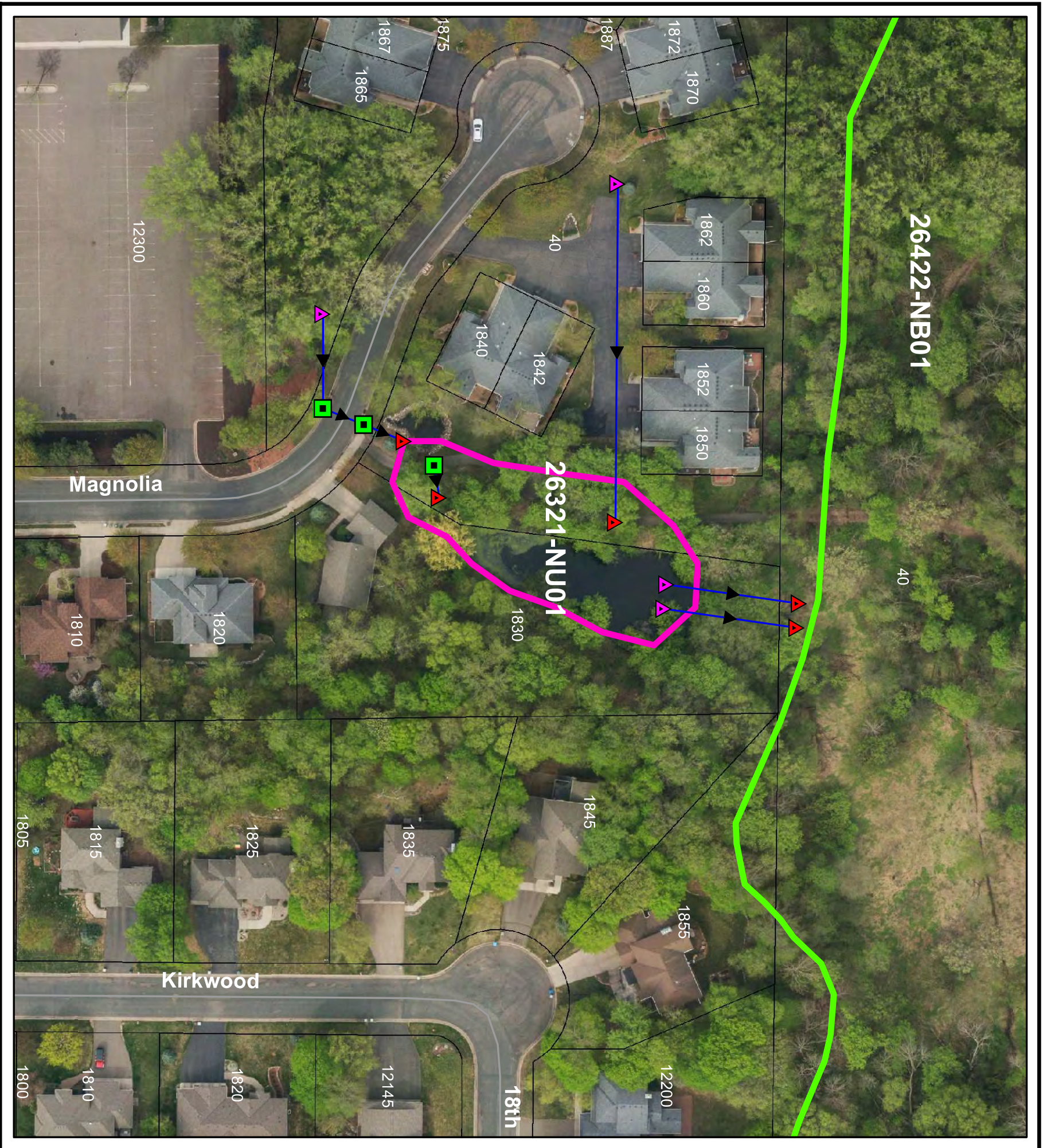











- Legend**
- ▶ BAP
  - ▶ Surface Water Resources
  - CB
  - Wetland
  - CBMH
  - Lakes
  - ▲ EAP
  - Parcels
  - Stormwater Pipe

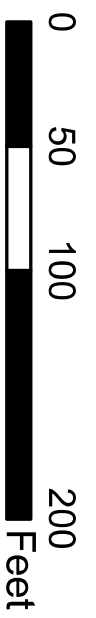




**2018 Aerial**  
**Park Woods Townhomes Stormwater Pond**  
**1830 Magnolia Lane North**

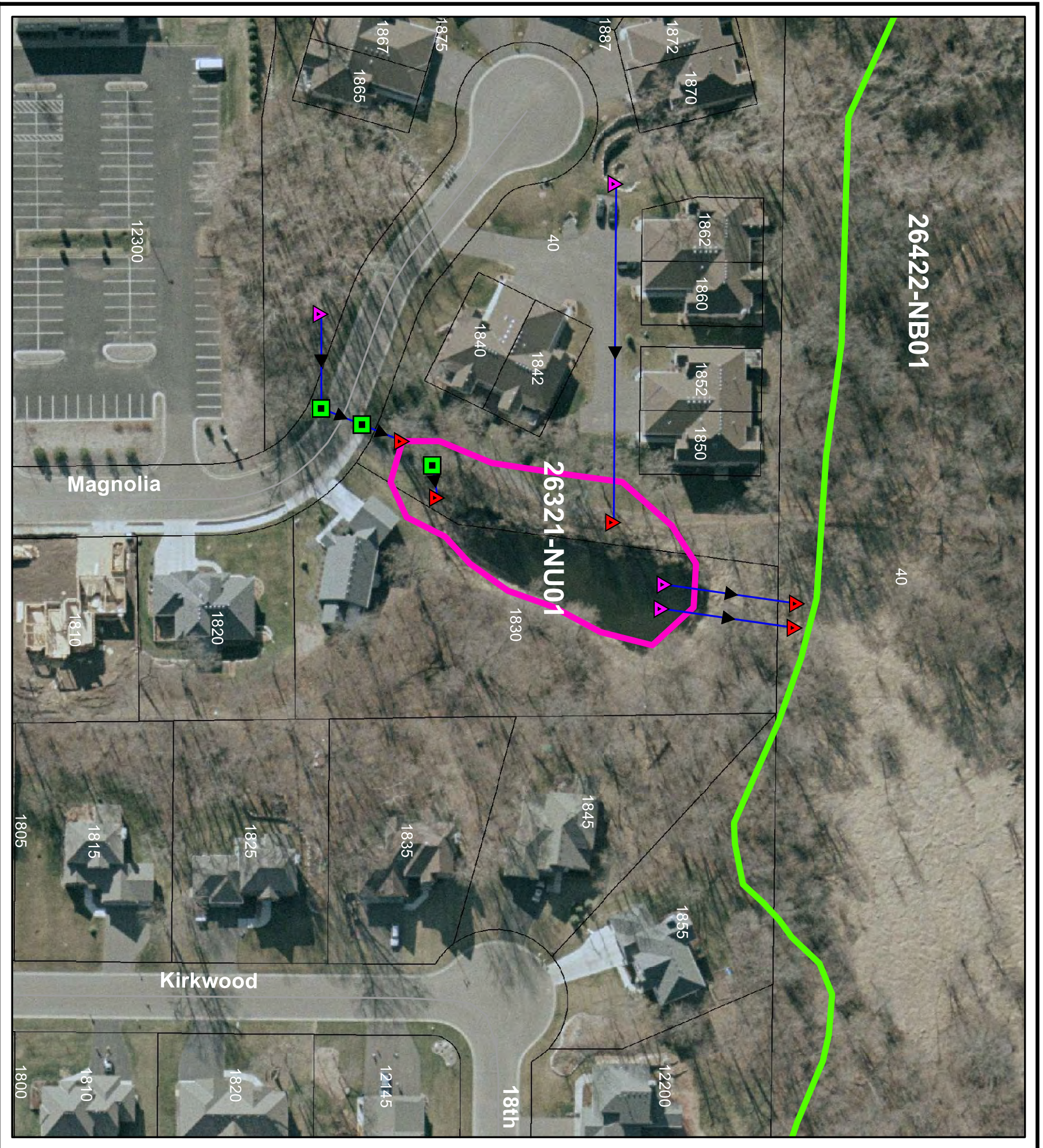











- Legend**
- |  |                 |   |                         |
|--|-----------------|---|-------------------------|
|  | BAP             |  | Surface Water Resources |
|  | CB              |  | Water Quality Pond      |
|  | EAP             |  | Wetland                 |
|  | Stormwater Pipe |  | Lakes                   |
|  |                 |  | Parcels                 |

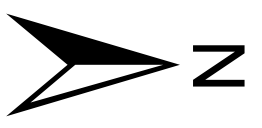
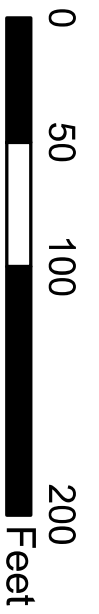




**1999 Aerial**  
**Park Woods Townhomes Stormwater Pond**  
**1830 Magnolia Lane North**

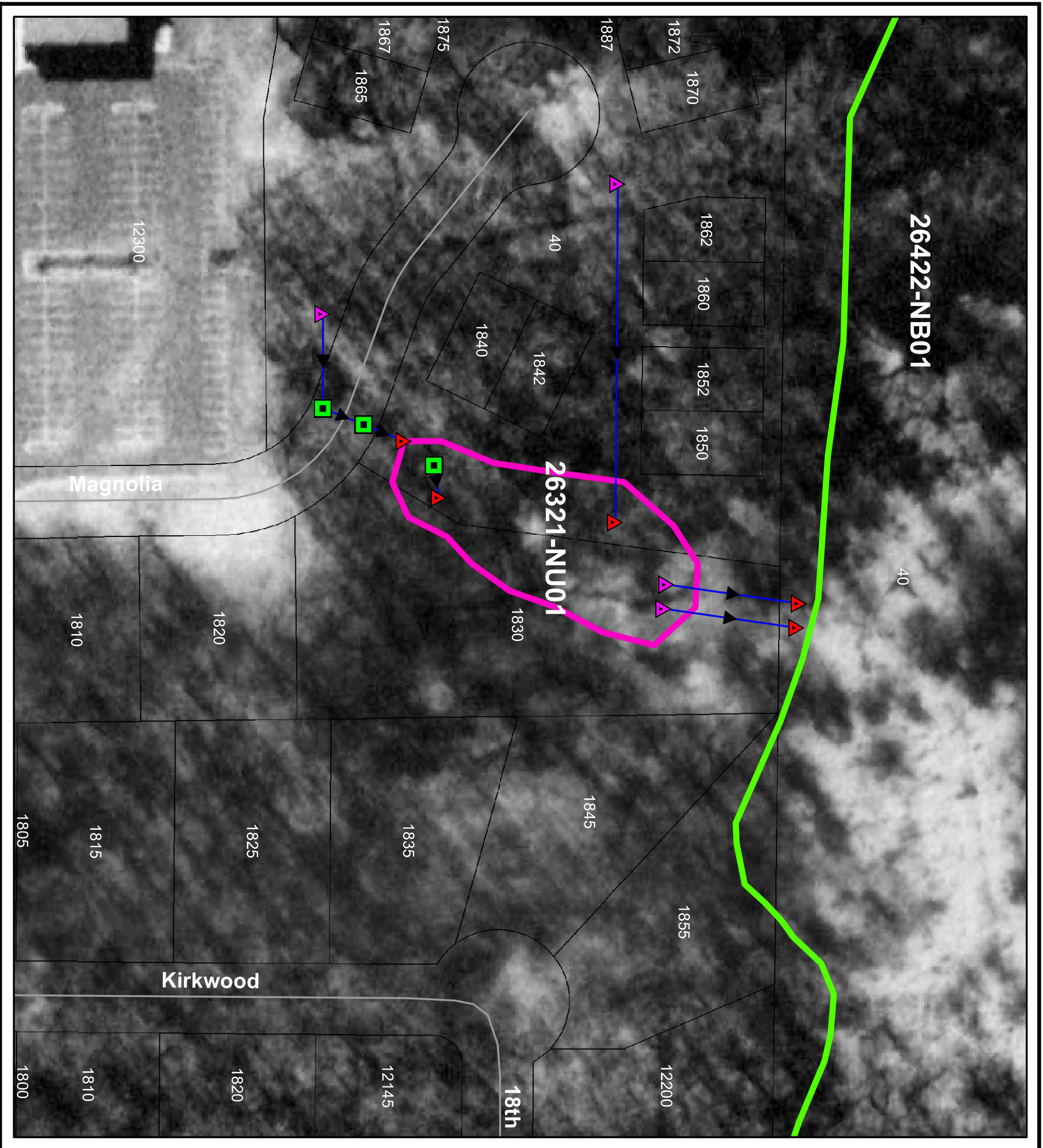


- Legend**
- |  |                 |   |                         |
|--|-----------------|---|-------------------------|
|  | BAP             |  | Surface Water Resources |
|  | CB              |  | Water Quality Pond      |
|  | EAP             |  | Wetland                 |
|  | Stormwater Pipe |  | Lakes                   |
|  |                 |  | Parcels                 |












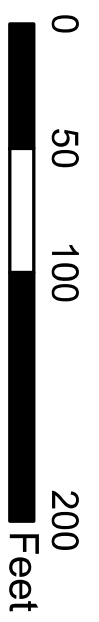


**1987 Aerial**  
**Park Woods Townhomes Stormwater Pond**  
**1830 Magnolia Lane North**



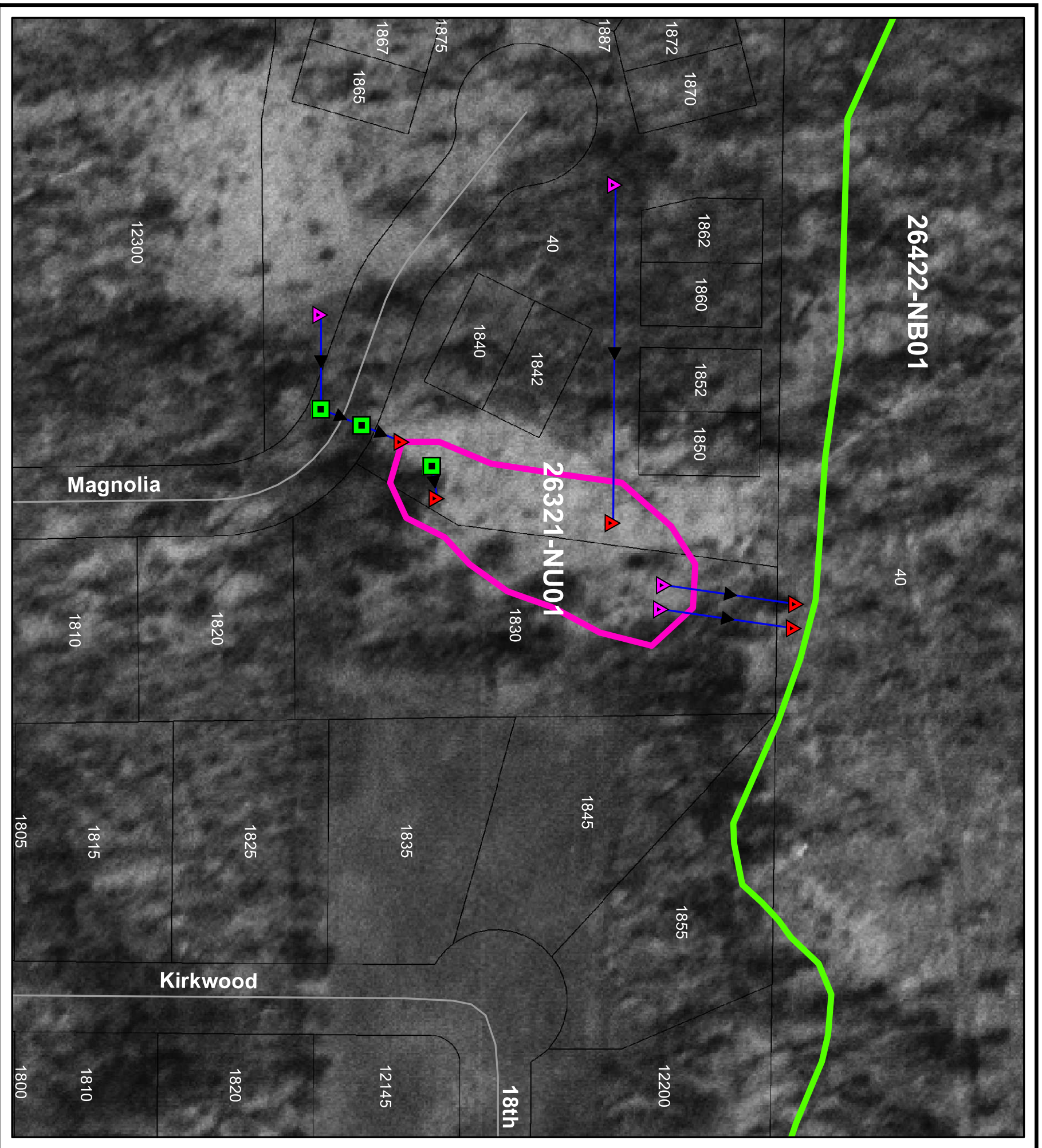
**Legend**










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|--|-----------------|---|-------------------------|
|  | BAP             |  | Surface Water Resources |
|  | CB              |  | Water Quality Pond      |
|  | EAP             |  | Wetland                 |
|   | Stormwater Pipe |  | Lakes                   |
|  |                 |  | Parcels                 |

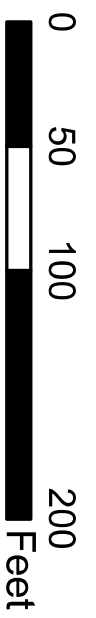




**1947 Aerial**  
**Park Woods Townhomes Stormwater Pond**  
**1830 Magnolia Lane North**



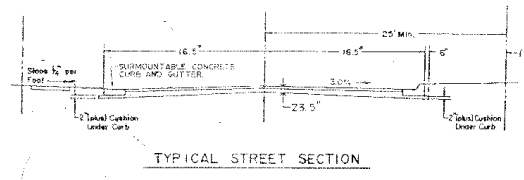
- Legend**
- |  |                 |   |                         |
|--|-----------------|---|-------------------------|
|  | BAP             |  | Surface Water Resources |
|  | CB              |  | Water Quality Pond      |
|  | EAP             |  | Wetland                 |
|  | Stormwater Pipe |  | Lakes                   |
|  |                 |  | Parcels                 |



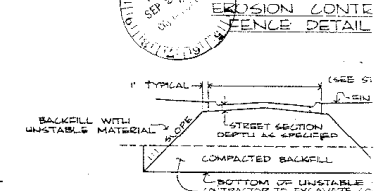
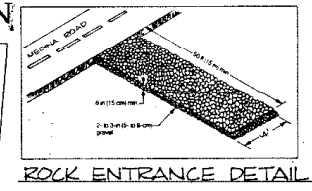


**Grading Plan  
Bridlewood Farms Pond  
18314-NB01**

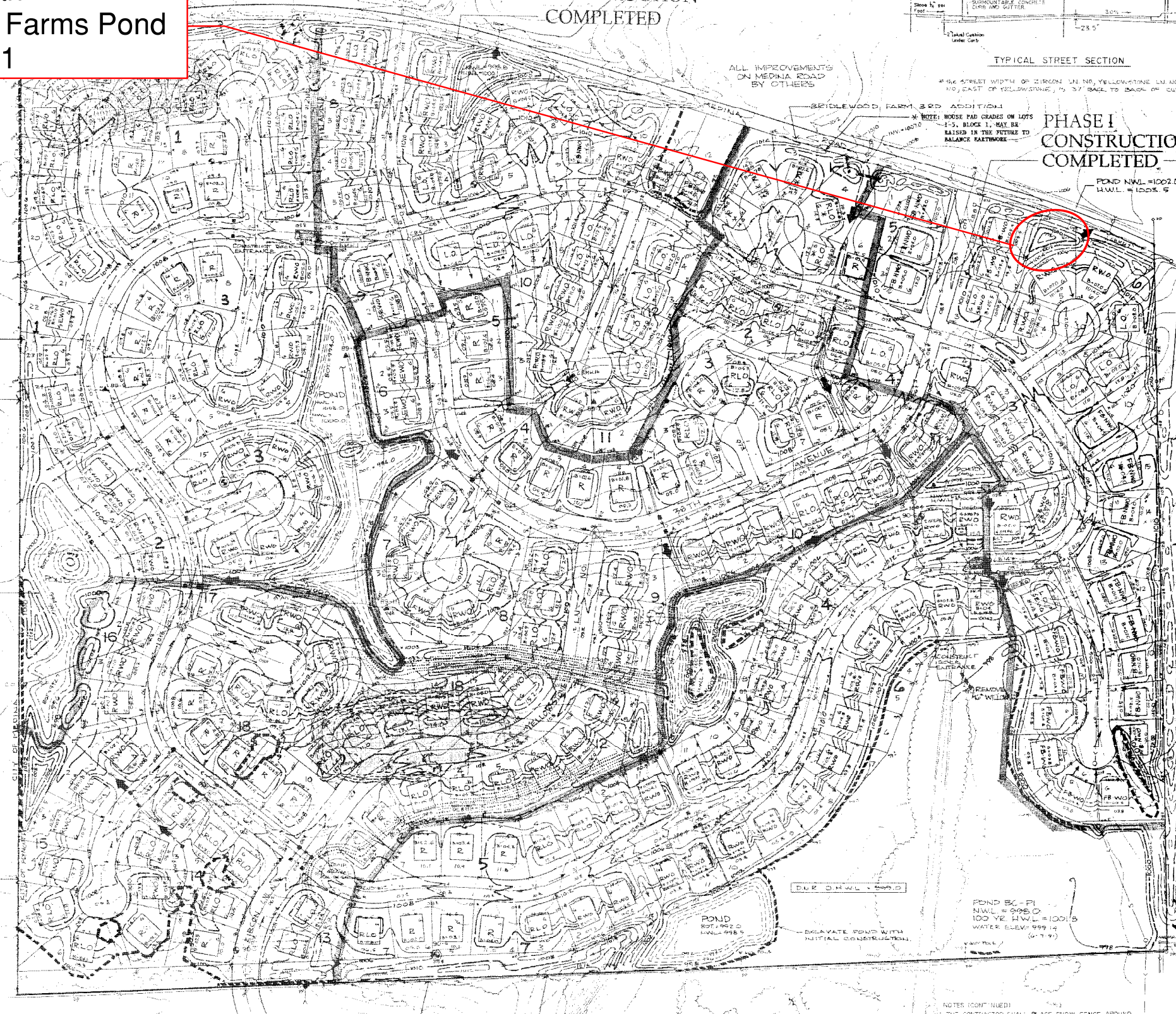
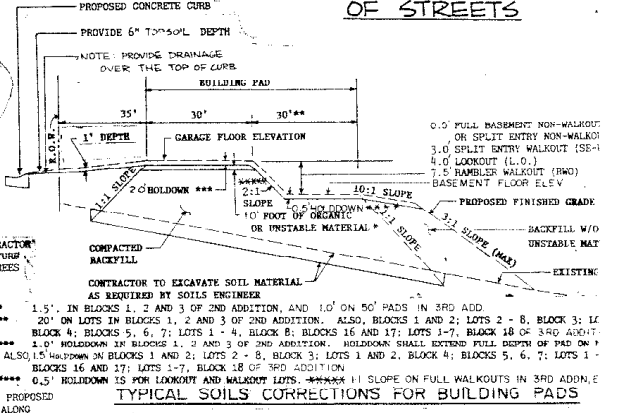
PHASE I  
CONSTRUCTION  
COMPLETED



ROCK BERM STRUCTURE  
(CONSTRUCTED W/PHASE I)



TYPICAL SOIL CORREC-  
OF STREETS

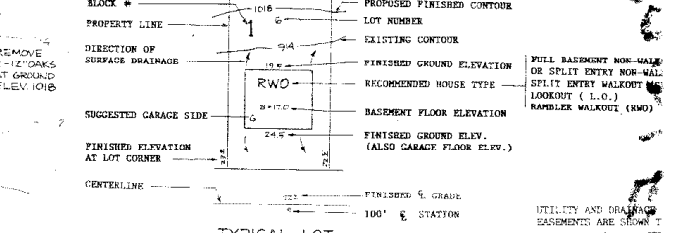


PHASE II  
CONSTRUCTION  
COMPLETED

NOTE: CONTRACTOR  
NOT TO DISTURB  
EXISTING TREES  
ON SCHOOL  
PROPERTY.

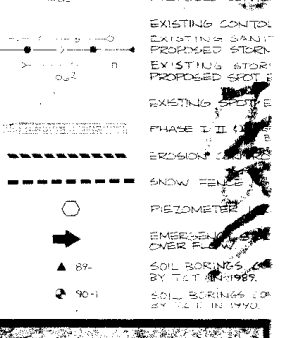
NOTE: PROPOSED  
BERM ALONG  
BOUNDARY TO  
CORRELATE MAX.  
SLOPE 3:1. CONST.  
LIMIT IS 30 FEET  
EAST OF EAST PLAT  
BOUNDARY.

- TYPICAL SOIL CORRECTIONS FOR BUILDING PADS
- NOTE: 1) - ON LOTS WHICH ARE IDENTIFIED AS L.O. (LOOKOUT) THE BERM ON THE FRONT PART OF THE BUILDING PAD SHALL BE 2.0 FEET FROM THE PROPOSED GARAGE FLOOR ELEVATION. UNSTABLE MATERIAL WILL BE REMOVED ON THE TOP OF THE FRONT PART OF THE PAD IN THESE LOTS.
  - 2) THE DESIGNATED BERM SHALL BE COMPLETED ACROSS THE ENTIRE WIDTH OF THE LOT (ON LOT LINE TO SIDE LOT LINE).
  - 3) SOIL CORRECTION FOR EACH BUILDING PAD SHALL AS A MINIMUM BE COMPLETE THE FULL WIDTH OF THE LOT, EXCEPT FOR THE 10' SIDE YARD SET BACK FROM THE LOT LINE. HOWEVER, THE BUILDING PAD SHALL BE ORIENTED AT A 1:1 SLOPE FROM THE EDGE OF THE BUILDING PAD.



- NOTES:
- ALL DISTURBED AREAS TO BE SEED AND MULCHED NO LATER THAN 72 HOURS AFTER GRADING IS COMPLETED.
  - EROSION CONTROL FENCE TO BE USED AS NECESSARY TO PREVENT EROSION. INSTALL PRIOR TO STARTING GRADING.
  - ACCESS WILL BE FROM MEDINA ROAD. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND MAINTENANCE ON MEDINA ROAD AS NECESSARY.
  - OWNER'S DEVELOPMENT PROJECT MANAGER IS WILLIAM FRITCHARD. PHONE: 534-7333.
  - CONTRACTOR SHALL HAVE A STREET SWEEPER AVAILABLE TO CLEAN COUNTY ROAD 101 WITHIN 24 HOURS OF NOTIFICATION IF HAULING ACTIVITIES RESULT IN MATERIAL SPILLING COUNTY ROAD 101.
  - IN CUT AREAS, THE CONTRACTOR SHALL SUBMIT THE AREA LOCATED IN THE REAR YARD, BEHIND THE BUILDING PAD, TO A DEPTH OF 6 INCHES. THE 6" SUBCUT SHALL BE BACKFILLED WITH 6" OF TOPSOIL.

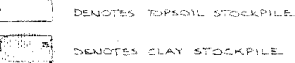
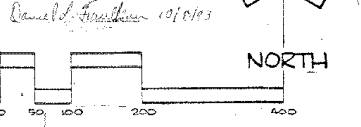
LEGEND



- THE CONTRACTOR SHALL CREATE A TOPSOIL STOCKPILE IN THE REAR YARD OF EACH LOT. ABOVE THE FINISHED GRADE CONTOUR AS SHOWN. EACH LOT SHALL CONTAIN A TOPSOIL STOCKPILE IN THE AMOUNT OF 75 CUBIC YARDS. THIS TOPSOIL WILL BE SPREAD IN THE FRONT YARD AREA BY THE OWNER AFTER THE HOME IS CONSTRUCTED.
- THE PROPOSED PONDS SHALL BE SUBCUT TO A DEPTH OF 6" AT AN ELEVATION OF 2' FEET ABOVE AND 2' FEET BELOW THE POND DESIGNATED NORMAL WATER ELEVATION (N.W.E.). THE 6" SUBCUT SHALL BE BACKFILLED WITH ORGANIC MATERIAL WHICH IS EXCAVATED FROM THE POND AREA.
- TURF SHALL BE ESTABLISHED IN THE EMERGENCY OVERTURN SWALES AFTER GRADING IS COMPLETE.
- GRADING ON LOT 1, BLOCK 6 AND LOT 1, BLOCK 4 AND ADJACENT POND COMPLETED WITH PHASE I.
- PERIODIC SEDIMENT SHALL BE REMOVED FROM THE 2ND ADDITION PONDS AS NECESSARY PRIOR TO COMPLETION OF THE PROJECT.

PHASE II  
CONSTRUCTION  
COMPLETED

NOTES (CONTINUED)  
1) THE CONTRACTOR SHALL PLACE SNOW FENCE AROUND TRENCH BOTTOM AREAS WHICH BORDER PLATTED LOTS IN THE FIRST OR SECOND ADDITION.  
2) 4" GRANITE AND AGGREGATE SHALL BE PLACED BY THE OWNER IN SWALES WITH A LONGITUDINAL SLOPE OF 1%.



BRIDLEWOOD FARM 3RD ADDITION

NO.	DATE	BY	DESCRIPTION
1	10/15/01	WJ	PRELIMINARY PLAN
2	11/15/01	WJ	REVISED PLAN
3	12/15/01	WJ	FINAL PLAN
4	01/15/02	WJ	CONTRACT DOCUMENTS
5	02/15/02	WJ	AS-BUILT PLAN

BRIDLEWOOD FARM 2ND ADDITION

NO.	DATE	BY	DESCRIPTION
1	05/15/00	WJ	PRELIMINARY PLAN
2	06/15/00	WJ	REVISED PLAN
3	07/15/00	WJ	FINAL PLAN
4	08/15/00	WJ	CONTRACT DOCUMENTS
5	09/15/00	WJ	AS-BUILT PLAN



**Grading Plan**  
**Park Woods Townhomes Pond**  
**26321-NU01**



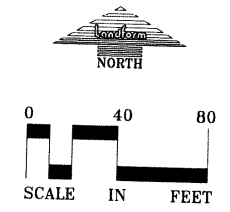
**AS-BUILT NOTES:**

- ALL HYDRANT BENCHMARKS ARE TOP NUT OF HYDRANT.
- DISTANCES, ELEVATIONS AND TIES ARE BASED ON FIELD MEASUREMENTS TAKEN AFTER CONSTRUCTION.

AS-BUILT COMPLETED BY: LANDFORM ENG. CO.

*Stephen M. Johnston*  
 STEPHEN M. JOHNSTON  
 Reg. No. 18914 Date 5/22/98

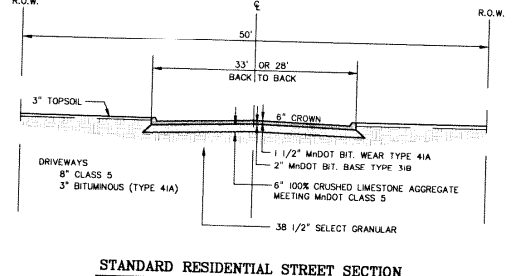
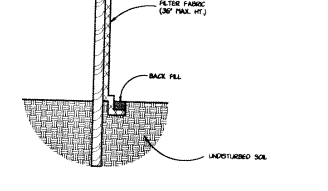
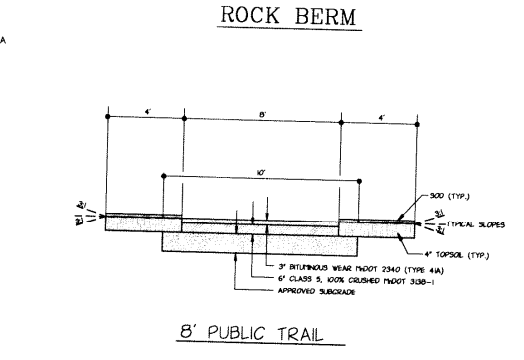
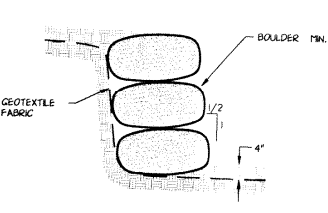
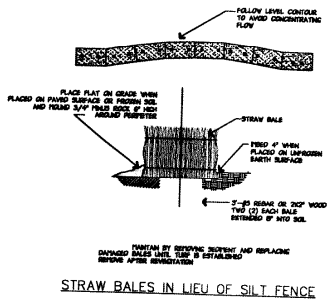
CONTRACTOR:  
 HENNER CONSTRUCTION CO.  
 14520 MAIN STREET  
 ROGERS, MN. 55374



**LEGEND**

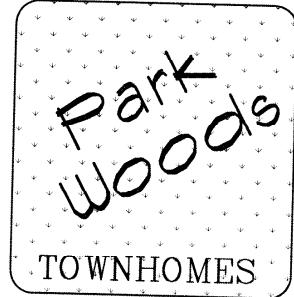
PROPOSED	EXISTING
CONTOURS	
WATER SERVICE	
SANITARY SERVICE	
MANHOLE	
CATCH BASIN	
HYDRANT & VALVE	
SANITARY SEWER	
STORM SEWER	
WATERMAIN	
CULVERT	
TELEPHONE LINE	
GAS LINE	
ELECTRIC LINE	
SPOT ELEVATION	
DIRECTION OF FLOW	
SILT FENCE	
CURB & GUTTER	
SOIL BORINGS	
RETAINING WALL	
FLOW ARROW	
SNOWFENCE	
HIP RAP	

LOOKOUT, WALKOUT INDICATORS IN TOWNHOMES  
 18 24 30 36 42 48 54 60 66 72 78 84 90 96 102 108 114 120 126 132 138 144 150 156 162 168 174 180 186 192 198 204 210 216 222 228 234 240 246 252 258 264 270 276 282 288 294 300 306 312 318 324 330 336 342 348 354 360 366 372 378 384 390 396 402 408 414 420 426 432 438 444 450 456 462 468 474 480 486 492 498 504 510 516 522 528 534 540 546 552 558 564 570 576 582 588 594 600 606 612 618 624 630 636 642 648 654 660 666 672 678 684 690 696 702 708 714 720 726 732 738 744 750 756 762 768 774 780 786 792 798 804 810 816 822 828 834 840 846 852 858 864 870 876 882 888 894 900 906 912 918 924 930 936 942 948 954 960 966 972 978 984 990 996 1002 1008 1014 1020 1026 1032 1038 1044 1050 1056 1062 1068 1074 1080 1086 1092 1098 1104 1110 1116 1122 1128 1134 1140 1146 1152 1158 1164 1170 1176 1182 1188 1194 1200 1206 1212 1218 1224 1230 1236 1242 1248 1254 1260 1266 1272 1278 1284 1290 1296 1302 1308 1314 1320 1326 1332 1338 1344 1350 1356 1362 1368 1374 1380 1386 1392 1398 1404 1410 1416 1422 1428 1434 1440 1446 1452 1458 1464 1470 1476 1482 1488 1494 1500 1506 1512 1518 1524 1530 1536 1542 1548 1554 1560 1566 1572 1578 1584 1590 1596 1602 1608 1614 1620 1626 1632 1638 1644 1650 1656 1662 1668 1674 1680 1686 1692 1698 1704 1710 1716 1722 1728 1734 1740 1746 1752 1758 1764 1770 1776 1782 1788 1794 1800 1806 1812 1818 1824 1830 1836 1842 1848 1854 1860 1866 1872 1878 1884 1890 1896 1902 1908 1914 1920 1926 1932 1938 1944 1950 1956 1962 1968 1974 1980 1986 1992 1998 2004 2010 2016 2022 2028 2034 2040 2046 2052 2058 2064 2070 2076 2082 2088 2094 2100 2106 2112 2118 2124 2130 2136 2142 2148 2154 2160 2166 2172 2178 2184 2190 2196 2202 2208 2214 2220 2226 2232 2238 2244 2250 2256 2262 2268 2274 2280 2286 2292 2298 2304 2310 2316 2322 2328 2334 2340 2346 2352 2358 2364 2370 2376 2382 2388 2394 2400 2406 2412 2418 2424 2430 2436 2442 2448 2454 2460 2466 2472 2478 2484 2490 2496 2502 2508 2514 2520 2526 2532 2538 2544 2550 2556 2562 2568 2574 2580 2586 2592 2598 2604 2610 2616 2622 2628 2634 2640 2646 2652 2658 2664 2670 2676 2682 2688 2694 2700 2706 2712 2718 2724 2730 2736 2742 2748 2754 2760 2766 2772 2778 2784 2790 2796 2802 2808 2814 2820 2826 2832 2838 2844 2850 2856 2862 2868 2874 2880 2886 2892 2898 2904 2910 2916 2922 2928 2934 2940 2946 2952 2958 2964 2970 2976 2982 2988 2994 3000



**EROSION CONTROL NOTES:**

- Prior to commencing work the contractor shall apply for a Minnesota Pollution Control Agency NPDES permit. All construction activities shall conform with the MPCA's Best Management Practices.
- Following clearing and grubbing operations but prior to any earth work the contractor shall install all silt fence shown on the plans. This silt fence shall be maintained until permanent turf is established and then it shall be removed by the contractor. Storm Water Pond to be constructed at beginning of earthwork operation.
- Additional erosion control measures shall be used as deemed necessary by the contractor to prevent the transportation of sediment to undisturbed areas of this site or adjacent properties. The contractor shall install additional erosion control measures if requested by the city or engineer.
- All disturbed areas of the site shall be dormant seeded and mulched following grading construction. If the dormant seeding fails to grow the site shall be reseeded during the growing season.
- Following street construction one row of sod or silt fence shall be installed behind the curb.
- Following the establishment of permanent vegetation the contractor shall clean all storm sewer pipe and remove any sediment in the ponds, returning the ponds to the contours shown on the plans.
- The streets within the project and adjacent to the site shall kept clean of dirt and debris for the duration of construction.



**Developer**  
 New Home Services, Inc.  
 13603 80th Circle North  
 Maple Grove, Minnesota 55369  
 (612) 494-8101

**Owner**  
 Word of Life Assembly of God  
 12300 18th Avenue North  
 Plymouth, Minnesota 55441  
 (612) 563-0040



**SHEET INDEX**

SHEET	TITLE	REV.
C01	EXISTING CONDITIONS & TREE PRESERVATION PLAN	
C02	FINAL SITE PLAN	
C03	FINAL GRADING PLAN	
C04	FINAL UTILITY PLAN	
C05	RAIN SEWER & WATERMAIN PROFILE	
C06	STREET & STORM SEWER PROFILE	
C07	FINAL LANDSCAPE PLAN	
C08	DETAIL SHEET	
C09	DETAIL SHEET	
C10	DETAIL SHEET	

**DATE REVISION**

DATE	REVISION
12-19-95	CITY COMMENTS
01-04-96	CITY COMMENTS
01-06-96	FINAL PLANS
02-12-96	CITY COMMENTS
02-20-96	CITY COMMENTS
03-05-96	BASSET CREEK WATER MNGT. COMMENTS
03-08-96	CITY COMMENTS
03-08-96	BASSET CREEK WATER MNGT. COMMENTS
03-27-96	CITY COMMENTS
02-06-96	DELETED REAR RET. WALLS
03-24-97	GRADING REVS. LOT 1, BLK 1
09-03-97	ASBUILT PLANS
01-15-98	GRADING REVS. LOTS 5 & 6, BLK 5
04-30-98	ASBUILT PLANS
05-22-98	FINAL ASBUILT PLANS

**CERTIFICATION:**  
 I hereby certify that this plan was prepared by me, or under my direct supervision, and that I am a duly registered Professional Engineer under the laws of the state of MINNESOTA.  
*Stephen M. Johnston*  
 Stephen M. Johnston  
 Registration No. 18914 Date: 11-17-95

**PROJECT :**  
**Park Woods Townhomes**  
 Plymouth, Minnesota



Landform Engineering Company • 9005 Twine Oaks Center  
 45000 Kayenta Boulevard • Kayenta, Minnesota 55991  
 (612) 470-3272 • fax/data(612) 470-3159

DATE: 11/10/98  
 FILE NAME: C301015  
 PROJECT NO. TB94002  
**FINAL GRADING PLAN**  
**C3.1**